APPENDIX A

FIELD DATA

WATER LEVEL MEASUREMENT FORM

Project No. 14-2012-2000	Project Name: APS OU3 Support
Type of Field Meter: Solinst Model 101	Measuring Point: TOC
Field Personnel: Louis Hilton / Dave Lauer LH/DL	Date of Measurements: 3/5/12

Monitor Well Number	Time	Depth to Water, Below Top of Casing	Stickup	Depth to Water Below Ground Surface	Comments
MW-1-S	12:21	87.59			
MW-1-M	12:26	87.76			
MW-1-M2	1224	87.74			
MW-2-S	11:54	92.92			
MW-2-M	11:56	93.26			
MW-2-M2	11:59	93.49			
MW-3-S	12:16	88.31			
MW-3-M	12:13	88.93			
MW-3-M2	12:10	88.80			
MW-4-S	1251	88.06			
MW-4-M	1248	89.24			
MW-5-S	1305	87.70			
MW-5-M	1306	87.55			
MW-5-M2	1307	87.42			
MW-6-S	1238	87.43			Construction
MW-6-M	1236	87.58			
MW-6-M2	1234	87.34			
MW-7-S	1300	88.61			

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WATER LEVEL MEASUREMENT FORM

Project No. 14-2012-2000	Project Name: APS OU3 Support
Type of Field Meter:	Measuring Point: TOC
Field Personnel: AL/LR	Date of Measurements: 06.06.12

Monitor Well Number	Time	Depth to Water, Below Top of Casing	Stickup	Depth to Water Below Ground Surface	Comments
MW-1-S	8:44	91.34			
MW-1-M	8:50	91.62			
MW-1-M2	8:48	91.54			
MW-2-S	8:14	91.56			
MW-2-M	8:20	91.98			
MW-2-M2	8:24	92.20			
MW-3-S	8:35	92.16			
MW-3-M	8:33	92.75			
MW-3-M2	8:30	92.58			
MW-4-S	9:02	91.71			
MW-4-M	8:58	93.9			
MW-5-S	9:16	91.91			
MW-5-M	9:19	91.70			
MW-5-M2	9:20	91.56			
MW-6-S	9:36	91.70			
MW-6-M	9:38	91.89			
MW-6-M2	9:40	91.68			
MW-7-S	9:10	92.89			

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WATER LEVEL MEASUREMENT FORM

Project No. 14-2012-2000	Project Name: APS OU3 Support
Type of Field Meter: Interface Probe Model 122	Measuring Point: TOC
Field Personnel: S. Wagner / A. Leclusk	Date of Measurements: 9/7/12

Monitor Well Number	Time	Depth to Water, Below Top of Casing	Stickup	Depth to Water Below Ground Surface	Comments
MW-1-S	9:00	94.75	N/A		OK
MW-1-M	9:04	95.01			OK
MW-1-M2	9:06	94.91			Good
MW-2-S	8:39	94.90			Good
MW-2-M	8:42	95.36			Good
MW-2-M2	8:44	95.56			Good
MW-3-S	8:51	95.59			Water in well
MW-3-M	8:53	96.15			Water in well
MW-3-M2	8:55	95.90			Water in well
MW-4-S	9:32	95.10			Good
MW-4-M		96.62			
MW-5-S	9:46	95.43			Good
MW-5-M	9:48	95.20			Good
MW-5-M2	9:50	95.05			Good
MW-6-S	9:19	95.35			Good
MW-6-M	9:21	95.40			Good
MW-6-M2	9:23	95.20			Good
MW-7-S	10:05	96.45			Good

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WATER LEVEL MEASUREMENT FORM

Project No. 14-2012-2000	Project Name: APS OU3 Support
Type of Field Meter: Heron	Measuring Point: TOC
Field Personnel: Shanda Wagner	Date of Measurements: 12/10/12

Monitor Well Number	Time	Depth to Water, Below Top of Casing	Stickup	Depth to Water Below Ground Surface	Comments
MW-1-S	10:32	94.59			Good
MW-1-M	10:36	94.82			Good
MW-1-M2	10:38	94.74			Good
MW-2-S	10:12	94.90			Good
MW-2-M	10:13	95.29			Good
MW-2-M2	10:14	95.47			Good
MW-3-S	10:22	95.37			Good
MW-3-M	10:24	95.94			Good
MW-3-M2	10:25	95.77			Good
MW-4-S	10:59	94.98			Good
MW-4-M	11:04	96.26			Good
MW-5-S	11:12	94.96			Good
MW-5-M	11:13	94.77			Good
MW-5-M2	11:14	94.61			Good
MW-6-S	10:49	94.79			Good
MW-6-M	10:50	94.88			Good
MW-6-M2	10:52	94.65			Good
MW-7-S	11:25	95.92			Good

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GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-1-S

SAMPLED BY: LH/DL

DATE : 3/6/12

WELL INFORMATION

TD Casing:	106.0	feet	Static Depth to Water:	87.51	feet (TOC El. 1078.46 ft)
Screened Interval:	46-101	feet	Feet Water in Casing:	18.49	feet
Discharge Rate:	2	gpm (est.)	Casing Capacity:	12.02	gallons (0.65 gal/ft)
Recommended Pumping Time:	24	minutes	Sand Pack Volume	3.88 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	10:40	hours	Purge Volume:	48	gallons (3 well volumes)
Time Pump Off:	11:17	hours	Water Level at Sampling:	87.51	feet
Total Time Pumped:	37	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
10:40	24.24	7.34	1.262	Clear	9.35	83.5	2	0	Pump rate:2gpm
10:45	24.41	7.35	1.241	Clear	5.39	82.9	2	10	
10:50	24.42	7.37	1.231	Clear	5.28	83.0	2	20	
10:55	24.42	7.39	1.231	Clear	4.78	83.5	2	30	
11:00	24.43	7.39	1.234	Clear	4.35	85.3	2	40	
11:05	24.41	7.35	1.223	Clear	4.10	88.2	2	50	

Sample ID: MW-1-S-A__ Sample Time: 11:05___ Duplicate (ID =MW-1-S-B__, Time 11:10) Analyses Requested: 8260 B_____

GROUNDWATER SAMPLING FIELD DATA

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-2-S

SAMPLED BY: LH/DL

DATE : 3/6/2012

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	87.97	feet (TOC El. 1078.97 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	22	feet
Discharge Rate:	2	gpm (est.)	Casing Capacity:	14	gallons (0.65 gal/ft)
Recommended Pumping Time:	24	minutes	Sand Pack Volume	4 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	8:20	hours	Purge Volume:	48	gallons (3 well volumes)
Time Pump Off:	8:45	hours	Water Level at Sampling:	87.98	feet
Total Time Pumped:	25	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:20	23.94	6.63	1.217	clear	4.56	151.0	2	0	Pump rate: 2gpm
8:25	23.94	6.91	1.241	clear	4.92	139.2	2	10	
8:30	23.95	6.84	1.213	clear	4.94	138.7	2	20	
8:35	23.97	6.98	1.212	clear	4.50	127.6	2	30	
8:40	23.97	6.81	1.268	clear	4.17	124.9	2	40	
8:45	23.96	7.09	1.248	clear	3.96	121.4	2	50	

Sample ID: MW-2-S Sample Time: 8:45 Duplicate (ID = _____, Time _____) Analyses Requested: 8260 B_____

GROUNDWATER SAMPLING FIELD DATA

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-3-S

SAMPLED BY: LH/DL

DATE : 3/6/2012

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	88.24	feet (TOC El. 1078.75 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	21.76	feet
Discharge Rate:	2	gpm (est.)	Casing Capacity:	14.09	gallons (0.65 gal/ft)
Recommended Pumping Time:	28	minutes	Sand Pack Volume	4.57 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:46	hours	Purge Volume:	56	gallons (3 well volumes)
Time Pump Off:	10:23	hours	Water Level at Sampling:	88.24	feet
Total Time Pumped:	37	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:46	24.34	7.51	1.283	Clear	6.09	61.5	2	0	Pump rate:2gpm
9:51	24.51	7.41	1.287	Clear	4.75	53.9	2	10	
9:56	24.51	7.39	1.283	Clear	4.46	55.3	2	20	
10:01	24.53	7.37	1.281	Clear	4.17	65.8	2	30	
10:06	24.54	7.37	1.284	Clear	4.18	66.5	2	40	
10:11	24.54	7.36	1.295	Clear	4.07	72.1	2	50	
10:14	24.51	7.37	1.280	Clear	4.02	76.4	2	60	

Sample ID: MW-3-S Sample Time: 10:15 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260 B_____

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-4-S

SAMPLED BY: LH/DL

DATE : 3/7/2012

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	87.99	feet (TOC El. 1078.44 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	22	feet
Discharge Rate:	2	gpm (est.)	Casing Capacity:	14	gallons (0.65 gal/ft)
Recommended Pumping Time:	29	minutes	Sand Pack Volume	4.6 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	8:55	hours	Purge Volume:	57	gallons (3 well volumes)
Time Pump Off:	9:30	hours	Water Level at Sampling:	87.99	feet
Total Time Pumped:	35	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:55	23.48	7.19	1.228	Clear	5.47	71.2	2	0	Pump rate:2 gpm
9:00	24.12	7.30	1.233	Clear	3.37	69.3	2	10	
9:05	24.13	7.30	1.230	Clear	3.36	69.3	2	20	
9:10	24.11	7.32	1.232	Clear	3.19	71.1	2	30	
9:15	24.12	7.29	1.236	Clear	3.10	73.3	2	40	
9:20	24.12	7.38	1.227	Clear	3.04	74.2	2	50	
9:25	24.12	7.39	1.233	Clear	2.98	75.1	2	60	

Sample ID: MW-4-S Sample Time: 9:25 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260 B_____

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-5-S

SAMPLED BY: LH/DL

DATE : 3/7/2012

WELL INFORMATION

TD Casing:	120.5	feet	Static Depth to Water:	87.70	feet (TOC El. 1077.26 ft)
Screened Interval:	70.0-120.0	feet	Feet Water in Casing:	32.8	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	21.32	gallons (0.65 gal/ft)
Recommended Pumping Time:	28	minutes	Sand Pack Volume	6.89 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	8:05	hours	Purge Volume:	84.63	gallons (3 well volumes)
Time Pump Off:	8:40	hours	Water Level at Sampling:	87.69	feet
Total Time Pumped:	35	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:05	23.37	6.95	1.195	Brown	10.21	136.7	3	0	Pump rate: 3gpm
8:10	23.71	7.02	1.198	Clear	5.42	121.9	3	15	Purge water came out brown at first, but cleared within first
8:15	23.72	7.04	1.195	Clear	4.93	121.6	3	30	Five minutes of purging.
8:20	23.71	7.07	1.196	Clear	4.62	120.0	3	45	
8:25	23.70	7.14	1.198	Clear	4.35	117.8	3	60	
8:30	23.70	7.18	1.195	Clear	3.96	113.5	3	75	
8:34	23.69	7.20	1.193	Clear	3.86	111.8	3	87	

Sample ID: MW-5-S Sample Time: 8:35 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-6-S

SAMPLED BY: LH/DL

DATE : 3/7/2012

WELL INFORMATION

TD Casing:	118.8	feet	Static Depth to Water:	87.41	feet (TOC El. 1077.32 ft)
Screened Interval:	68.3-118.3	feet	Feet Water in Casing:	31.37	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	20.39	gallons (0.65 gal/ft)
Recommended Pumping Time:	27	minutes	Sand Pack Volume	6.59 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	10:45	hours	Purge Volume:	81	gallons (3 well volumes)
Time Pump Off:	11:20	hours	Water Level at Sampling:	87.45	feet
Total Time Pumped:	35	minutes			

Time	Temp (°C)	pH	EC (S/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
10:45	23.45	7.53	1.158	Clear	3.40	80.3	3	0	Pump rate:
10:50	24.10	7.55	1.230	Clear	3.01	41.3	3	15	
10:55	24.14	7.53	1.228	Clear	2.90	44.5	3	30	
11:00	24.12	7.54	1.245	Clear	2.83	47.3	3	45	
11:05	24.12	7.55	1.233	Clear	2.78	49.9	3	60	
11:10	24.12	7.57	1.259	Clear	2.71	53.3	3	75	
11:12	24.14	7.57	1.240	Clear	2.68	55.3	3	81	

Sample ID: MW-6-S-A Sample Time: 11:15 Duplicate (ID = MW-6-S-B , Blind Time 11:20) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-7-S

SAMPLED BY: LH/DL

DATE : 3/7/2012

WELL INFORMATION

TD Casing:	120.5	feet	Static Depth to Water:	88.59	feet (TOC El. 1077.11 ft)
Screened Interval:	70 - 120	feet	Feet Water in Casing:	31.89	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	20.73	gallons (0.65 gal/ft)
Recommended Pumping Time:	27	minutes	Sand Pack Volume	6.7 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:55	hours	Purge Volume:	82	gallons (3 well volumes)
Time Pump Off:	10:30	hours	Water Level at Sampling:	88.59	feet
Total Time Pumped:	35	minutes			

Time	Temp (°C)	pH	EC (S/m)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:55	23.90	7.25	1.254	Clear	4.90	39.2	3	0	Pump rate: 3gpm
10:00	23.88	7.33	1.239	Clear	3.41	45.7	3	15	
10:05	23.88	7.34	1.235	Clear	3.40	46.3	3	30	
10:10	23.88	7.41	1.236	Clear	3.18	53.8	3	45	
10:15	23.86	7.42	1.232	Clear	3.16	54.9	3	60	
10:20	23.85	7.44	1.228	Clear	3.11	59.6	3	75	
10:23	23.86	7.46	1.225	Clear	3.07	62.0	3	84	

Sample ID: MW-7-S_____Sample Time: 10:25___ Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-1-S

SAMPLED BY: S.W./A.L.

DATE : 9/11/12

WELL INFORMATION

TD Casing:	106.0	feet	Static Depth to Water:	94.86	feet (TOC El. 1078.46 ft)
Screened Interval:	46-101	feet	Feet Water in Casing:	11.14	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	7.24	gallons (0.65 gal/ft)
Recommended Pumping Time:	9.5	minutes	Sand Pack Volume	9.3 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	11:54	hours	Purge Volume:	28.6	gallons (3 well volumes)
Time Pump Off:	12:05	hours	Water Level at Sampling:	94.86	feet
Total Time Pumped:	11	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
11:54	28.06	6.86	1342	2.08	22.04	189.0	3	---	Pump rate: 3 GPM
11:56	26.88	7.00	1340	1.85	16.84	188.4	3	6	
11:58	26.89	7.01	1339	2.54	14.07	187.3	3	12	
12:00	26.88	7.04	1342	1.19	11.29	186.1	3	18	
12:02	26.88	7.05	1341	0.60	9.75	185.3	3	24	

Sample ID: MW1S-091112-A Sample Time: 12:05 Duplicate (ID = MW1S-091112-B , Time 12:13) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-1-M

SAMPLED BY: S.W./A.L.

DATE : 9/11/12

WELL INFORMATION

TD Casing:	175.08	feet	Static Depth to Water:	95.45	feet (TOC El. 1078.47 ft)
Screened Interval:	154.3-175.3	feet	Feet Water in Casing:	79.63	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	51.76	gallons (0.65 gal/ft)
Recommended Pumping Time:	68	minutes	Sand Pack Volume	16.7 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	12:25	hours	Purge Volume:	205.4	gallons (3 well volumes)
Time Pump Off:	13:35	hours	Water Level at Sampling:	95.13	feet
Total Time Pumped:	70	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
12:25	26.29	7.34	1202	0.23	7.30	175.7	3	---	Pump rate: 3 GPM
12:30	26.34	7.35	1202	0.14	6.80	174.5	3	15	
12:35	26.31	7.37	1198	0.12	5.69	172.1	3	30	
12:40	26.31	7.38	1198	0.15	5.20	171.1	3	45	
12:45	26.31	7.38	1199	0.12	4.81	170.5	3	60	
12:50	26.29	7.38	1197	0.19	4.52	169.8	3	75	
12:55	26.31	7.38	1198	0.14	4.25	169.0	3	90	
13:00	26.32	7.38	1198	0.17	4.05	168.3	3	105	
13:05	26.32	7.38	1197	0.06	3.87	167.7	3	120	
13:10	26.32	7.38	1197	0.11	3.75	167.2	3	135	
13:15	26.34	7.38	1197	0.15	3.58	166.5	3	150	
13:20	26.38	7.38	1198	0.09	3.43	165.9	3	165	
13:25	26.33	7.38	1196	0.15	3.28	165.4	3	180	
13:30	26.38	7.38	1197	0.08	3.23	165.1	3	195	
13:33	26.36	7.38	1197	0.08	3.20	164.9	3	210	

Sample ID: MW1M-091112 Sample Time: 13:35 Duplicate (ID = _____, Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502 Facility

WELL ID: MW-1-M2

PROJECT #: 14-2012-2000

SAMPLED BY: S.W./A.L.

WELL INFORMATION

DATE : 9/11/12

TD Casing:	209.5	feet	Static Depth to Water:	95.03	feet (TOC El. 1078.54 ft)
Screened Interval:	189.0-209.0	feet	Feet Water in Casing:	114.47	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	74.4	gallons (0.65 gal/ft)
Recommended Pumping Time:	98.4	minutes	Sand Pack Volume	24.04 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	14:00	hours	Purge Volume:	295.30	gallons (3 well volumes)
Time Pump Off:	15:40	hours	Water Level at Sampling:	95.03	feet
Total Time Pumped:	100	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
14:00	30.00	7.48	1291	1.02	26.23	125.6	3	---	Pump rate: 3 GPM
14:05	26.25	7.41	1204	0.17	8.57	116.0	3	15	
14:10	26.23	7.43	1203	0.21	6.43	116.0	3	30	
14:15	26.22	7.44	1202	0.17	5.30	116.3	3	45	
14:20	26.16	7.43	1201	0.09	4.43	116.8	3	60	
14:25	26.16	7.42	1200	0.15	3.80	117.2	3	75	
14:30	26.17	7.42	1201	0.17	3.78	117.2	3	90	
14:35	26.18	7.42	1199	0.19	3.52	117.4	3	105	
14:40	26.17	7.42	1199	0.11	3.36	117.6	3	120	
14:45	26.17	7.42	1199	0.11	3.19	117.6	3	135	
14:50	26.16	7.41	1198	0.10	3.07	117.7	3	150	
14:55	26.17	7.42	1197	0.20	2.89	117.5	3	165	
15:00	26.17	7.42	1196	0.11	2.80	117.4	3	180	
15:05	26.17	7.42	1196	0.10	2.71	117.3	3	195	
15:10	26.17	7.42	1195	0.15	2.65	117.1	3	210	
15:15	26.17	7.42	1196	0.09	2.56	117.2	3	225	
15:20	26.17	7.42	1195	0.11	2.50	117.4	3	240	
15:25	26.18	7.42	1195	0.13	2.44	117.5	3	255	
15:30	26.18	7.42	1195	0.11	2.42	117.4	3	270	
15:35	26.17	7.42	1196	0.10	2.41	117.5	3	285	
15:38	26.17	7.41	1195	0.12	2.39	117.2	3	294	

Sample ID: MW1M2-091112 Sample Time: 15:40 Duplicate (ID = _____, Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-2-S

SAMPLED BY: S.W./A.L.

DATE : 9/10/12

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	94.97	feet (TOC El. 1078.97 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	15.03	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	9.75	gallons (0.65 gal/ft)
Recommended Pumping Time:	13	minutes	Sand Pack Volume	3.15 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:14	hours	Purge Volume:	38.7	gallons (3 well volumes)
Time Pump Off:	9:30	hours	Water Level at Sampling:	94.97	feet
Total Time Pumped:	16	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:14	26.62	6.58	1286	0.70	11.96	363.3	3.75	---	Pump rate:
9:20	26.62	6.74	1287	0.29	8.70	350.6	3	18	
9:25	26.69	6.85	1289	0.29	7.69	344.4	3	33	
9:27	26.70	6.90	1288	0.16	6.77	341.8	3	39	

Sample ID: MW2S-091012 Sample Time: 9:30 Duplicate (ID = _____, Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-2-M

SAMPLED BY: S.W./A.L.

DATE : 9/10/12

WELL INFORMATION

TD Casing:	175.83	feet	Static Depth to Water:	95.40	feet (TOC El. 1079.21 ft)
Screened Interval:	155.3-175.3	feet	Feet Water in Casing:	80.43	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	52.28	gallons (0.65 gal/ft)
Recommended Pumping Time:	69.17	minutes	Sand Pack Volume	16.89(estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:45	hours	Purge Volume:	207.51	gallons (3 well volumes)
Time Pump Off:	11:00	hours	Water Level at Sampling:	95.42	feet
Total Time Pumped:	75	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:45	28.13	7.49	1282	1.9	4.37	348.5	3	---	Pump rate:3GPM
9:50	26.18	7.17	1219	0.20	2.78	326.7	3	15	
9:55	26.17	7.21	1219	0.97	2.80	316.6	3	30	
10:00	26.17	7.22	1217	0.19	3.11	308.5	3	45	
10:05	26.18	7.23	1219	0.32	3.54	297.2	3	60	
10:10	26.19	7.24	1217	0.15	3.82	288.0	3	75	
10:15	26.16	7.24	1215	0.16	4.13	279.8	3	90	
10:20	26.18	7.25	1216	0.13	4.66	270.1	3	105	
10:25	26.19	7.25	1216	0.14	5.00	262.2	3	120	
10:30	26.21	7.25	1216	0.11	6.74	254.1	3	135	
10:35	26.20	7.26	1218	0.21	7.05	245.7	3	150	
10:40	26.22	7.26	1215	0.11	9.51	240.0	3	165	
10:45	26.22	7.26	1214	0.29	8.00	234.4	3	180	
10:50	26.25	7.26	1215	0.22	8.67	230.4	3	195	
10:54	26.26	7.27	1215	0.21	8.87	227.9	3	207	

Sample ID: MW2M-091012 Sample Time: 10:55 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-2-M2

SAMPLED BY: S.W./A.L.

DATE : 9/10/12

WELL INFORMATION

TD Casing:	208.75	feet	Static Depth to Water:	95.63	feet (TOC El. 1079.36 ft)
Screened Interval:	188.3-208.3	feet	Feet Water in Casing:	113.12	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	73.53	gallons (0.65 gal/ft)
Recommended Pumping Time:	97.3	minutes	Sand Pack Volume	23.75(estimated)	gallons (0.21 gal/ft)
Time Pump On:	11:25	hours	Purge Volume:	291.85	gallons (3 well volumes)
Time Pump Off:	13:05	hours	Water Level at Sampling:	95.56	feet
Total Time Pumped:	105	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
11:25	28.30	7.90	1233	3.27	23.97	238.7	3	---	Pump rate:
11:30	26.31	7.26	1194	3.08	26.36	224.4	3	15	
11:35	26.21	7.33	1186	0.68	26.99	216.7	3	30	
11:40	26.26	7.36	1186	0.41	26.40	212.9	3	45	
11:45	26.14	7.37	1181	0.18	31.18	209.6	3	60	
11:50	26.17	7.37	1182	0.18	28.89	206.1	3	75	
11:55	26.15	7.38	1180	0.14	26.78	202.3	3	90	
12:00	26.20	7.37	1181	0.14	24.36	199.6	3	105	
12:05	26.20	7.38	1180	0.14	23.38	197.3	3	120	
12:10	26.15	7.38	1177	0.08	22.43	194.9	3	135	
12:15	26.19	7.38	1179	0.09	21.50	191.9	3	150	
12:20	26.16	7.38	1176	1.08	20.74	189.4	3	165	
12:25	26.21	7.38	1178	0.27	21.20	185.7	3	180	
12:30	26.13	7.38	1175	0.12	21.87	183.0	3	195	
12:35	26.16	7.36	1172	0.12	21.07	180.6	3	210	
12:40	26.14	7.36	1179	0.23	17.51	178.2	3	225	
12:45	26.19	7.37	1179	0.14	14.73	176.0	3	240	
12:50	26.17	7.36	1181	0.12	13.05	173.7	3	255	
12:55	26.17	7.36	1180	0.51	12.53	171.7	3	270	
13:00	26.20	7.36	1178	0.25	11.96	169.5	3	285	

Time	Temp (^oC)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
13:02	26.28	7.36	1180	0.42	11.51	167.9	3	291	

Sample ID: MW2M2-091012 Sample Time: 13:05 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-3-S

SAMPLED BY: S.W./A.L.

DATE : 9/11/12

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	95.7	feet (TOC El. 1078.75 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	14.3	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	9.3	gallons (0.65 gal/ft)
Recommended Pumping Time:	12.3	minutes	Sand Pack Volume	3 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	8:55	hours	Purge Volume:	36.9	gallons (3 well volumes)
Time Pump Off:	9:10	hours	Water Level at Sampling:	95.7	feet
Total Time Pumped:	15	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:55	25.75	7.26	1198	1.20	6.04	230.8	3	---	Pump rate:3 gpm
9:00	26.83	6.92	1331	2.72	6.45	228.1	3	15	
9:05	26.94	6.91	1334	1.16	6.32	224.3	3	30	
9:07	26.94	6.92	1332	0.80	6.31	222.4	3	36	
									Collected extra volume for MS/MSD

Sample ID: MW3S-091112 Sample Time: 9:10 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-3-M

SAMPLED BY: S.W./A.L.

DATE : 9/11/12

WELL INFORMATION

TD Casing:	174.75	feet	Static Depth to Water:	96.26	feet (TOC El. 1079.41 ft)
Screened Interval:	154.3-174.3	feet	Feet Water in Casing:	78.49	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	51.0	gallons (0.65 gal/ft)
Recommended Pumping Time:	67	minutes	Sand Pack Volume	16.48 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	10:20	hours	Purge Volume:	202	gallons (3 well volumes)
Time Pump Off:	11:32	hours	Water Level at Sampling:	96.27	feet
Total Time Pumped:	72	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
10:20	28.06	7.36	1179	3.24	12.97	206.9	3	---	Pump rate: 3 GPM
10:25	25.91	7.26	1206	0.75	11.08	207.7	3	15	
10:30	25.92	7.29	1209	0.85	9.71	201.9	3	30	
10:35	25.89	7.30	1204	0.81	9.12	198.3	3	45	
10:40	25.89	7.30	1203	0.44	8.35	195.0	3	60	
10:45	25.90	7.30	1203	0.41	7.91	194.2	3	75	
10:50	25.88	7.30	1202	0.23	7.42	192.5	3	90	
10:55	25.89	7.30	1202	0.32	6.85	190.5	3	105	
11:00	25.89	7.31	1202	0.30	6.75	189.8	3	120	
11:05	25.89	7.31	1202	0.37	6.50	188.6	3	135	
11:10	25.90	7.31	1202	0.32	6.21	187.6	3	150	
11:15	25.89	7.31	1202	0.56	6.00	186.6	3	165	
11:20	25.89	7.31	1201	0.56	5.76	186.1	3	180	
11:25	25.90	7.31	1201	0.35	5.74	185.5	3	195	
11:27	25.90	7.31	1202	0.28	5.53	184.5	3	205	

Sample ID: MW3M-091112 Sample Time: 11:30 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-3-M2

SAMPLED BY: S.W./A.L.

DATE : 9/11/12

WELL INFORMATION

TD Casing:	214.75	feet	Static Depth to Water:	96.07	feet (TOC El. 1079.25 ft)
Screened Interval:	194.3-214.3	feet	Feet Water in Casing:	118.7	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	77.14	gallons (0.65 gal/ft)
Recommended Pumping Time:	102	minutes	Sand Pack Volume	24.93(estimated)	gallons (0.21 gal/ft)
Time Pump On:	7:05	hours	Purge Volume:	306.2	gallons (3 well volumes)
Time Pump Off:	8:50	hours	Water Level at Sampling:	96.10	feet
Total Time Pumped:	105	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
7:05	25.28	6.97	1159	0.59	52.36	310.0	3	---	Pump rate:3 GPM
7:10	25.45	6.61	1180	0.33	25.52	330.7	3	15	
7:15	25.45	6.88	1180	0.20	14.48	313.0	3	30	
7:20	25.44	7.00	1179	0.10	11.54	303.7	3	45	
7:25	25.44	7.07	1178	0.10	10.28	297.5	3	60	
7:30	25.44	7.12	1168	0.12	9.42	292.6	3	75	
7:35	25.44	7.18	1177	0.16	8.68	286.0	3	90	
7:40	25.44	7.22	1177	0.42	8.14	279.9	3	105	
7:45	25.44	7.25	1177	0.38	7.69	275.3	3	120	
7:50	25.44	7.26	1177	0.14	7.43	272.7	3	135	
7:55	25.43	7.28	1176	0.08	7.21	267.6	3	150	
8:00	25.44	7.29	1176	0.13	6.91	263.6	3	165	
8:05	25.43	7.30	1175	0.24	6.62	260.4	3	180	
8:10	25.43	7.31	1175	0.61	6.27	255.7	3	195	
8:15	25.43	7.31	1175	0.12	6.18	253.6	3	210	
8:20	25.42	7.31	1174	0.13	6.08	250.4	3	225	
8:25	25.44	7.32	1174	0.08	5.82	246.1	3	240	
8:30	25.45	7.32	1174	0.51	5.80	243.5	3	255	
8:35	25.47	7.33	1174	0.09	5.73	240.1	3	270	
8:40	25.46	7.33	1174	0.32	5.61	238.0	3	285	
8:45	25.48	7.34	1174	0.11	5.48	235.2	3	300	

Time	Temp (^oC)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:57	25.47	7.33	1173	0.11	5.43	234.5	3	306	

Sample ID: MW3M2-091112 Sample Time: 8:50 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-4-S

SAMPLED BY: S.W./A.L.

DATE : 9/10/12

WELL INFORMATION

TD Casing:	110.0	feet	Static Depth to Water:	95.25	feet (TOC El. 1078.44 ft)
Screened Interval:	50.0-105.0	feet	Feet Water in Casing:	14.75	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	9.58	gallons (0.65 gal/ft)
Recommended Pumping Time:	12.7	minutes	Sand Pack Volume	3.09 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	13:30	hours	Purge Volume:	38	gallons (3 well volumes)
Time Pump Off:	13:45	hours	Water Level at Sampling:	95.21	feet
Total Time Pumped:	15	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
13:30	33.64	7.64	1447	8.55	5.36	85.3	3	---	Pump rate:3 GPM
13:35	26.93	7.22	1279	2.29	8.59	88.3	3	15	
13:40	26.89	7.25	1278	0.82	5.43	84.5	3	30	
13:43	26.88	7.25	1277	0.69	5.23	84.2	3	39	

Sample ID: MW4S-091212 Sample Time: 13:45 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-4-M

SAMPLED BY: S.W./A.L.

DATE : 9/12/12

WELL INFORMATION

TD Casing:	174.5	feet	Static Depth to Water:	96.62	feet (TOC El. 1079.27 ft)
Screened Interval:	154.0-174.0	feet	Feet Water in Casing:	77.88	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	50.62	gallons (0.65 gal/ft)
Recommended Pumping Time:	67	minutes	Sand Pack Volume	16.35(estimated)	gallons (0.21 gal/ft)
Time Pump On:	12:00	hours	Purge Volume:	200.9	gallons (3 well volumes)
Time Pump Off:	13:10	hours	Water Level at Sampling:	96.52	feet
Total Time Pumped:	70	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
12:00	33.18	7.63	1317	1.22	3.35	7.7	3	---	Pump rate: 3GPM
12:05	26.67	7.35	1215	0.28	2.73	42.7	3	15	
12:10	26.64	7.41	1216	0.74	3.24	44.6	3	30	
12:15	26.64	7.42	1216	0.47	4.57	47.3	3	45	
12:20	26.64	7.42	1215	0.30	6.13	49.8	3	60	
12:25	26.67	7.42	1214	0.32	4.77	52.0	3	75	
12:30	26.65	7.42	1213	0.45	4.20	54.6	3	90	
12:35	26.64	7.42	1213	0.40	4.19	55.8	3	105	
12:40	26.52	7.42	1211	0.26	3.51	58.4	3	120	
12:45	26.33	7.42	1207	0.27	3.30	60.3	3	135	
12:50	26.34	7.42	1207	0.31	3.20	62.1	3	150	
12:55	26.45	7.42	1210	0.32	3.09	62.5	3	165	
13:00	26.49	7.42	1210	0.27	3.11	63.6	3	180	
13:05	26.45	7.41	1209	0.22	3.08	64.8	3	195	
13:07	26.46	7.41	1209	0.18	3.06	65.0	3	201	

Sample ID: MW4M-091212 Sample Time: 13:10 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-5-S

SAMPLED BY: S.W./A.L.

DATE : 9/13/12

WELL INFORMATION

TD Casing:	120.5	feet	Static Depth to Water:	95.75	feet (TOC El. 1077.26 ft)
Screened Interval:	70.0-120.0	feet	Feet Water in Casing:	24.75	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	16.08	gallons (0.65 gal/ft)
Recommended Pumping Time:	22	minutes	Sand Pack Volume	5.2(estimated)	gallons (0.21 gal/ft)
Time Pump On:	8:50	hours	Purge Volume:	63.84	gallons (3 well volumes)
Time Pump Off:	9:20	hours	Water Level at Sampling:	95.70	feet
Total Time Pumped:	30	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:50	25.69	7.12	1254	3.07	2.77	166.1	3	---	Pump rate: 3 GPM
8:55	26.17	7.14	1262	1.12	2.38	159.6	3	15	
9:00	26.24	7.18	1258	1.12	2.22	155.5	3	30	
9:05	26.24	7.19	1257	0.40	2.03	152.8	3	45	
9:10	26.24	7.19	1258	0.18	1.91	151.4	3	60	
9:15	26.22	7.19	1257	0.18	1.85	150.3	3	75	

Sample ID: MW5S-091312 Sample Time: 9:20 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-5-M

SAMPLED BY: S.W./A.L.

DATE : 9/13/12

WELL INFORMATION

TD Casing:	174.5	feet	Static Depth to Water:	95.34	feet (TOC El. 1077.38 ft)
Screened Interval:	154.0-174.0	feet	Feet Water in Casing:	79.16	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	51.4	gallons (0.65 gal/ft)
Recommended Pumping Time:	68	minutes	Sand Pack Volume	16.6 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:50	hours	Purge Volume:	204	gallons (3 well volumes)
Time Pump Off:	10:45	hours	Water Level at Sampling:	95.30	feet
Total Time Pumped:	55	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:50	26.06	7.60	1155	1.37	3.68	148.2	3	---	Pump rate: 3 GPM
9:55	25.64	7.41	1196	0.15	1.72	151.3	3	15	
10:00	25.68	7.43	1199	0.08	1.43	150.6	3	30	
10:05	25.66	7.42	1198	0.23	1.41	151.1	3	45	
10:10	25.68	7.41	1199	0.08	1.33	151.1	3	60	
10:15	25.69	7.42	1198	0.21	1.33	151.1	3	75	
10:20	25.70	7.42	1198	0.05	1.32	149.5	3	90	
10:25	25.71	7.43	1199	0.05	1.33	149.5	3	105	
10:30	25.72	7.42	1200	0.07	1.33	149.4	3	120	
10:35	25.72	7.43	1199	0.07	1.32	149.0	3	135	
10:40	25.71	7.43	1199	0.17	1.34	148.7	3	150	
10:45	25.71	7.43	1200	0.17	1.32	148.9	3	165	
10:50	25.70	7.42	1199	0.15	1.32	148.6	3	180	
10:55	25.71	7.43	1199	0.10	1.33	148.4	3	195	
10:58	25.70	7.43	1200	0.09	1.34	148.0	3	204	

Sample ID: MW5M-091312 Sample Time: 11:00 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-5-M2

SAMPLED BY: S.W./A.L.

DATE : 9/13/12

WELL INFORMATION

TD Casing:	225.0	feet	Static Depth to Water:	95.20	feet (TOC El. 1077.32 ft)
Screened Interval:	204.5-224.5	feet	Feet Water in Casing:	129.8	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	84.37	gallons (0.65 gal/ft)
Recommended Pumping Time:	111.6	minutes	Sand Pack Volume	27.2(estimated)	gallons (0.21 gal/ft)
Time Pump On:	6:55	hours	Purge Volume:	335	gallons (3 well volumes)
Time Pump Off:	8:50	hours	Water Level at Sampling:	95.3	feet
Total Time Pumped:	115	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
6:55	25.43	7.29	1388	2.16	4.07	200.9	3	---	Pump rate: 3GPM
7:00	25.30	7.00	1325	1.16	2.67	213.6	3	15	
7:05	25.30	7.17	1317	0.99	2.22	203.2	3	30	
7:10	25.26	7.24	1312	0.66	2.06	198.1	3	45	
7:15	25.24	7.29	1310	0.69	1.91	194.5	3	60	
7:20	25.23	7.32	1309	0.49	1.80	192.1	3	75	
7:25	25.25	7.35	1308	0.46	1.76	189.8	3	90	
7:30	25.27	7.36	1308	0.32	1.71	188.1	3	105	
7:35	25.27	7.39	1305	0.30	1.64	186.7	3	120	
7:40	25.27	7.39	1306	0.35	1.62	185.0	3	135	
7:45	25.27	7.40	1305	0.41	1.56	183.7	3	150	
7:50	25.28	7.40	1303	0.31	1.54	182.9	3	165	
7:55	25.29	7.42	1304	0.25	1.49	181.1	3	180	
8:00	25.29	7.42	1303	0.32	1.49	180.6	3	195	
8:05	25.30	7.43	1302	0.25	1.46	179.0	3	210	
8:10	25.30	7.43	1301	0.29	1.46	178.9	3	225	
8:15	25.31	7.43	1301	0.39	1.44	177.9	3	240	
8:20	25.30	7.44	1300	0.28	1.44	177.6	3	255	
8:25	25.29	7.44	1301	0.20	1.42	176.8	3	270	
8:30	25.31	7.44	1300	0.20	1.43	176.1	3	285	
8:35	25.34	7.45	1300	0.19	1.43	174.9	3	300	

Time	Temp (^oC)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:40	25.33	7.45	1304	0.21	1.44	174.7	3	315	
8:45	25.33	7.45	1301	0.20	1.43	174.0	3	330	

Sample ID: MW5M2-091312 Sample Time: 8:50 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-6-S

SAMPLED BY: S.W./A.L.

DATE : 9/12/12

WELL INFORMATION

TD Casing:	118.8	feet	Static Depth to Water:	95.5	feet (TOC El. 1077.29 ft)
Screened Interval:	68.3-118.3	feet	Feet Water in Casing:	23.3	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	15.1	gallons (0.65 gal/ft)
Recommended Pumping Time:	20	minutes	Sand Pack Volume	4.9 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	9:15	hours	Purge Volume:	60	gallons (3 well volumes)
Time Pump Off:	9:45	hours	Water Level at Sampling:	95.45	feet
Total Time Pumped:	30	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
9:15	30.56	7.44	1507	6.28	5.60	88.0	3	---	Pump rate: 3 GPM
9:20	26.81	7.28	1263	41.4	4.21	64.7	3	15	
9:25	26.79	7.29	1263	11.4	4.00	67.7	3	30	
9:30	26.80	7.29	1265	5.76	3.92	70.5	3	45	
9:35	26.82	7.28	1266	3.53	3.90	72.4	3	60	
									Collected duplicate sample.

Sample ID: MW6S-091212-A Sample Time: 9:38 Duplicate (ID = MW6S-091212-B , Blind Time 9:45) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-6-M

SAMPLED BY: S.W./A.L.

DATE : 9/12/12

WELL INFORMATION

TD Casing:	174.9	feet	Static Depth to Water:	95.50	feet (TOC El. 1077.35 ft)
Screened Interval:	154.4-174.4	feet	Feet Water in Casing:	79.4	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	51.6	gallons (0.65 gal/ft)
Recommended Pumping Time:	68	minutes	Sand Pack Volume	16.7 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	10:20	hours	Purge Volume:	204.8	gallons (3 well volumes)
Time Pump Off:	11:30	hours	Water Level at Sampling:	95.52	feet
Total Time Pumped:	70	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
10:20	27.89	7.62	1152	1.04	38.60	-147.7	3	---	Pump rate: 3 GPM
10:25	26.53	7.38	1217	0.37	2.58	-55.6	3	15	
10:30	26.50	7.39	1217	0.27	2.10	-37.0	3	30	
10:35	26.48	7.41	1217	0.18	1.98	-26.2	3	45	
10:40	26.42	7.40	1217	0.39	2.00	-16.7	3	60	
10:45	26.44	7.42	1217	0.14	2.01	-12.7	3	75	
10:50	26.44	7.46	1217	0.18	1.99	-5.2	3	90	
10:55	26.47	7.47	1217	0.07	1.99	-4.3	3	105	
11:00	26.57	7.52	1219	0.08	1.95	-1.4	3	120	
11:05	26.55	7.56	1218	0.12	2.34	1.6	3	135	
11:10	26.59	7.58	1219	0.22	2.44	3.3	3	150	
11:15	26.57	7.58	1218	0.09	2.62	5.0	3	165	
11:20	26.55	7.57	1218	0.12	2.80	7.3	3	180	
11:25	26.52	7.56	1217	0.13	2.88	12.0	3	195	
11:28	26.55	7.54	1217	0.12	2.77	16.6	3	204	

Sample ID: MW6M-091212 Sample Time: 11:30 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-6-M2

SAMPLED BY: S.W./A.L.

DATE : 9/12/12

WELL INFORMATION

TD Casing:	224.3	feet	Static Depth to Water:	95.34	feet (TOC El. 1077.11 ft)
Screened Interval:	203.8-223.8	feet	Feet Water in Casing:	128.96	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	83.8	gallons (0.65 gal/ft)
Recommended Pumping Time:	110.9	minutes	Sand Pack Volume	27.0 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	7:10	hours	Purge Volume:	332.6	gallons (3 well volumes)
Time Pump Off:	9:05	hours	Water Level at Sampling:	95.22	feet
Total Time Pumped:	115	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
7:10	25.55	6.69	1420	0.23	10.07	47.3	3	---	Pump rate: 3 GPM
7:15	25.53	6.76	1414	0.46	10.23	45.8	3	15	
7:20	25.54	6.92	1411	0.23	9.29	58.1	3	30	
7:25	25.56	7.07	1404	0.15	6.23	59.2	3	45	
7:30	25.58	7.15	1401	0.20	5.50	59.7	3	60	
7:35	25.58	7.22	1396	0.12	4.93	60.3	3	75	
7:40	25.60	7.27	1393	0.10	4.58	60.0	3	90	
7:45	25.61	7.31	1391	0.10	4.13	60.8	3	105	
7:50	25.64	7.34	1393	0.15	3.88	62.1	3	120	
7:55	25.65	7.36	1394	0.13	3.74	62.9	3	135	
8:00	25.66	7.37	1394	0.10	3.64	63.9	3	150	
8:05	25.68	7.39	1390	0.13	3.52	65.2	3	165	
8:10	25.67	7.40	1390	0.13	3.47	66.1	3	180	
8:15	25.63	7.40	1389	0.10	3.46	66.7	3	195	
8:20	25.68	7.41	1389	0.13	3.35	68.3	3	210	
8:25	25.68	7.41	1390	0.11	3.32	68.6	3	225	
8:30	25.67	7.42	1388	0.15	3.32	69.5	3	240	
8:35	25.69	7.43	1388	0.19	3.27	70.7	3	255	
8:40	25.72	7.43	1389	0.11	3.23	71.0	3	270	
8:45	25.72	7.44	1390	0.11	3.24	72.4	3	285	
8:50	25.82	7.45	1392	0.13	3.20	73.5	3	300	

Time	Temp (^oC)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
8:55	25.82	7.45	1392	0.18	3.20	73.8	3	315	
9:00	25.86	7.45	1391	0.12	3.17	74.4	3	330	

Sample ID: MW6M-091212 Sample Time: 9:03 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

GROUNDWATER SAMPLING FIELD DATA

PROJECT: APS 501, 502, 505 Facility

PROJECT #: 14-2012-2000

WELL ID: MW-7-S

SAMPLED BY: S.W./A.L.

DATE : 9/12/12

WELL INFORMATION

TD Casing:	120.5	feet	Static Depth to Water:	95.56	feet (TOC El. 1078.31 ft)
Screened Interval:	70 – 120	feet	Feet Water in Casing:	24.94	feet
Discharge Rate:	3	gpm (est.)	Casing Capacity:	15.2	gallons (0.65 gal/ft)
Recommended Pumping Time:	20.4	minutes	Sand Pack Volume	5.2 (estimated)	gallons (0.21 gal/ft)
Time Pump On:	14:15	hours	Purge Volume:	62.3	gallons (3 well volumes)
Time Pump Off:	14:40	hours	Water Level at Sampling:	95.6	feet
Total Time Pumped:	25	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (gpm)	Purge Volume (gallons)	Comments
14:15	29.23	7.39	1294	2.51	18.33	85.5	3	---	Pump rate: 3 GPM
14:20	26.64	7.33	1239	0.64	2.15	85.7	3	15	
14:25	26.69	7.35	1241	0.54	2.14	83.7	3	30	
14:30	26.68	7.35	1241	0.24	2.30	83.1	3	45	
14:35	26.70	7.34	1242	0.33	2.37	82.6	3	60	

Sample ID: MW7S-091212 Sample Time: 14:40 Duplicate (ID = _____, Blind Time _____) Analyses Requested: 8260B

APPENDIX B

LABORATORY ANALYTICAL REPORTS (ON CD)

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVC0465

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, & 505

Sampled: 03/06/12
Received: 03/06/12
Issued: 03/15/12 16:39

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVC0465-01	MW-2S-A-030612	Water
PVC0465-02	MW-3S-A-030612	Water
PVC0465-03	MW-1S-A-030612	Water
PVC0465-04	MW-1S-B-030612	Water
PVC0465-05	Trip Blank	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate P.O. Box 53999, M/S 9307 Phoenix, AZ 85072-3999 Attention: Judy Heywood	Project ID: APS 501,502, & 505 Report Number: PVC0465	Sampled: 03/06/12 Received: 03/06/12

SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. N1- Hexachlorobutadiene was detected above the MDL in Trip blank sample PVC0465-05 The associated method blank also had a hit above the Reporting Limit for Hexachlorobutadiene. The Hexachlorobutadiene hit in the trip blank and method blank are due to carryover from the QC. The associated samples are all non-detect for Hexachlorobutadiene therefore the data is not impacted. Due to insufficient sample the trip blank will not be re-analyzed. N1a-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.
ADDITIONAL INFORMATION:	Due to Laboratory oversight PVC0465-02 was not used for the MS/MSD.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

PVC0340 4165 1le 030712

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Sampler: Louis H. / Dave L.	Date: 3-6-12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	____ of ____ COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No. 142012 2000
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) ____W____			SDG No.
(602) 250-3850 Phone	TAT if different from Below ____			
(602) 250-3872 FAX	[x] Standard			
Project Name:	[ ] 1 week			
Use Project: APS 501, 502, and 505	[ ] 2 days			
P O # 650510472	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS + 5 rec Attached	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
MW-2S-A-030612	3/6/12	845	40 mL VOA	W	3		X		X	-01
MW-3S-A-030612	3/6/12	1015	40 mL VOA	W	9		X	X	X	-02
MW-1S-A-030612	3/6/12	1105	40 mL VOA	W	3		X		X	-03
MW-1S-B-030612	3/6/12	1110	40 mL VOA	W	3		X		X	-04
Trip Blank	3/6/12	N/A	40 mL VOA	W	1		X		X	-05

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____1,2____

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* [ ] *Disposal By Lab* [ ] *Archive For ____ Months*

Special Instructions/QC Requirements & Comments: ***Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.***

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	AMEC	3/6/12-1447			
Relinquish			Received by:	Company:	Date/Time:
Relinquish			Received by:	Company: TA	Date/Time: 3/6/12 14:47

2.7°c / 4.1°c / 5.4°c

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-01 (MW-2S-A-030612 - Water)						**Sampled: 03/06/12**			
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	10	7.3	ND	1	3/13/2012	3/13/2012	E8
Benzene	EPA 8260B	12C0524	0.50	0.12	ND	1	3/13/2012	3/13/2012	E8
Bromobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Bromochloromethane	EPA 8260B	12C0524	0.50	0.27	ND	1	3/13/2012	3/13/2012	E8
Bromodichloromethane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Bromoform	EPA 8260B	12C0524	1.0	0.37	ND	1	3/13/2012	3/13/2012	E8
Bromomethane	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.5	2.2	ND	1	3/13/2012	3/13/2012	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
n-Butylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Carbon disulfide	EPA 8260B	12C0524	0.50	0.10	ND	1	3/13/2012	3/13/2012	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
Chlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
Chloroethane	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
Chloroform	EPA 8260B	12C0524	0.50	0.13	**0.59**	1	3/13/2012	3/13/2012	
Chloromethane	EPA 8260B	12C0524	1.0	0.21	ND	1	3/13/2012	3/13/2012	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	2.5	0.82	ND	1	3/13/2012	3/13/2012	E8
Dibromochloromethane	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.50	0.30	ND	1	3/13/2012	3/13/2012	E8
Dibromomethane	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.29	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
2,2-Dichloropropane	EPA 8260B	12C0524	1.0	0.18	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.47	ND	1	3/13/2012	3/13/2012	E8
Ethylbenzene	EPA 8260B	12C0524	0.50	0.32	ND	1	3/13/2012	3/13/2012	E8
Hexachlorobutadiene	EPA 8260B	12C0524	1.0	0.28	ND	1	3/13/2012	3/13/2012	B1, E8

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-01 (MW-2S-A-030612 - Water) - cont.						**Sampled: 03/06/12**			
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	2.5	1.5	ND	1	3/13/2012	3/13/2012	E8
Iodomethane	EPA 8260B	12C0524	2.5	0.21	ND	1	3/13/2012	3/13/2012	E8
Isopropylbenzene	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
Methylene Chloride	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	2.5	1.3	ND	1	3/13/2012	3/13/2012	E8
Naphthalene	EPA 8260B	12C0524	2.5	0.51	ND	1	3/13/2012	3/13/2012	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Styrene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.35	ND	1	3/13/2012	3/13/2012	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.33	ND	1	3/13/2012	3/13/2012	E8
Tetrachloroethene	EPA 8260B	12C0524	0.50	0.18	**0.60**	1	3/13/2012	3/13/2012	
Toluene	EPA 8260B	12C0524	0.50	0.28	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.32	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.45	ND	1	3/13/2012	3/13/2012	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
Trichloroethene	EPA 8260B	12C0524	0.50	0.24	**0.24**	1	3/13/2012	3/13/2012	E4
Trichlorofluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	1.0	0.78	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Vinyl Acetate	EPA 8260B	12C0524	1.0	0.81	ND	1	3/13/2012	3/13/2012	E8
Vinyl chloride	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Xylenes, Total	EPA 8260B	12C0524	1.0	0.86	ND	1	3/13/2012	3/13/2012	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*93 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-02 (MW-3S-A-030612 - Water)						**Sampled: 03/06/12**			
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	10	7.3	ND	1	3/13/2012	3/13/2012	E8
Benzene	EPA 8260B	12C0524	0.50	0.12	ND	1	3/13/2012	3/13/2012	E8
Bromobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Bromochloromethane	EPA 8260B	12C0524	0.50	0.27	ND	1	3/13/2012	3/13/2012	E8
Bromodichloromethane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Bromoform	EPA 8260B	12C0524	1.0	0.37	ND	1	3/13/2012	3/13/2012	E8
Bromomethane	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.5	2.2	ND	1	3/13/2012	3/13/2012	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
n-Butylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Carbon disulfide	EPA 8260B	12C0524	0.50	0.10	ND	1	3/13/2012	3/13/2012	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
Chlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
Chloroethane	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
Chloroform	EPA 8260B	12C0524	0.50	0.13	**0.80**	1	3/13/2012	3/13/2012	
Chloromethane	EPA 8260B	12C0524	1.0	0.21	ND	1	3/13/2012	3/13/2012	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	2.5	0.82	ND	1	3/13/2012	3/13/2012	E8
Dibromochloromethane	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.50	0.30	ND	1	3/13/2012	3/13/2012	E8
Dibromomethane	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.29	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
2,2-Dichloropropane	EPA 8260B	12C0524	1.0	0.18	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.47	ND	1	3/13/2012	3/13/2012	E8
Ethylbenzene	EPA 8260B	12C0524	0.50	0.32	ND	1	3/13/2012	3/13/2012	E8
Hexachlorobutadiene	EPA 8260B	12C0524	1.0	0.28	ND	1	3/13/2012	3/13/2012	B1, E8

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-02 (MW-3S-A-030612 - Water) - cont.						**Sampled: 03/06/12**			
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	2.5	1.5	ND	1	3/13/2012	3/13/2012	E8
Iodomethane	EPA 8260B	12C0524	2.5	0.21	ND	1	3/13/2012	3/13/2012	E8
Isopropylbenzene	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
Methylene Chloride	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	2.5	1.3	ND	1	3/13/2012	3/13/2012	E8
Naphthalene	EPA 8260B	12C0524	2.5	0.51	ND	1	3/13/2012	3/13/2012	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Styrene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.35	ND	1	3/13/2012	3/13/2012	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.33	ND	1	3/13/2012	3/13/2012	E8
Tetrachloroethene	EPA 8260B	12C0524	0.50	0.18	**1.2**	1	3/13/2012	3/13/2012	
Toluene	EPA 8260B	12C0524	0.50	0.28	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.32	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.45	ND	1	3/13/2012	3/13/2012	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
Trichloroethene	EPA 8260B	12C0524	0.50	0.24	**0.99**	1	3/13/2012	3/13/2012	
Trichlorofluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	1.0	0.78	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Vinyl Acetate	EPA 8260B	12C0524	1.0	0.81	ND	1	3/13/2012	3/13/2012	E8
Vinyl chloride	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Xylenes, Total	EPA 8260B	12C0524	1.0	0.86	ND	1	3/13/2012	3/13/2012	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*95 %*				
Surrogate: Dibromofluoromethane (70-130%)					*103 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-03 (MW-1S-A-030612 - Water)					**Sampled: 03/06/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	10	7.3	ND	1	3/13/2012	3/13/2012	E8
Benzene	EPA 8260B	12C0524	0.50	0.12	ND	1	3/13/2012	3/13/2012	E8
Bromobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Bromochloromethane	EPA 8260B	12C0524	0.50	0.27	ND	1	3/13/2012	3/13/2012	E8
Bromodichloromethane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Bromoform	EPA 8260B	12C0524	1.0	0.37	ND	1	3/13/2012	3/13/2012	E8
Bromomethane	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.5	2.2	ND	1	3/13/2012	3/13/2012	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
n-Butylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Carbon disulfide	EPA 8260B	12C0524	0.50	0.10	ND	1	3/13/2012	3/13/2012	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
Chlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
Chloroethane	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
Chloroform	EPA 8260B	12C0524	0.50	0.13	**1.0**	1	3/13/2012	3/13/2012	
Chloromethane	EPA 8260B	12C0524	1.0	0.21	ND	1	3/13/2012	3/13/2012	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	2.5	0.82	ND	1	3/13/2012	3/13/2012	E8
Dibromochloromethane	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.50	0.30	ND	1	3/13/2012	3/13/2012	E8
Dibromomethane	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.29	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
2,2-Dichloropropane	EPA 8260B	12C0524	1.0	0.18	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.47	ND	1	3/13/2012	3/13/2012	E8
Ethylbenzene	EPA 8260B	12C0524	0.50	0.32	ND	1	3/13/2012	3/13/2012	E8
Hexachlorobutadiene	EPA 8260B	12C0524	1.0	0.28	ND	1	3/13/2012	3/13/2012	B1, E8

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-03 (MW-1S-A-030612 - Water) - cont.						**Sampled: 03/06/12**			
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	2.5	1.5	ND	1	3/13/2012	3/13/2012	E8
Iodomethane	EPA 8260B	12C0524	2.5	0.21	ND	1	3/13/2012	3/13/2012	E8
Isopropylbenzene	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
Methylene Chloride	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	2.5	1.3	ND	1	3/13/2012	3/13/2012	E8
Naphthalene	EPA 8260B	12C0524	2.5	0.51	ND	1	3/13/2012	3/13/2012	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Styrene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.35	ND	1	3/13/2012	3/13/2012	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.33	ND	1	3/13/2012	3/13/2012	E8
Tetrachloroethene	EPA 8260B	12C0524	0.50	0.18	**0.81**	1	3/13/2012	3/13/2012	
Toluene	EPA 8260B	12C0524	0.50	0.28	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.32	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.45	ND	1	3/13/2012	3/13/2012	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
Trichloroethene	EPA 8260B	12C0524	0.50	0.24	ND	1	3/13/2012	3/13/2012	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	1.0	0.78	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Vinyl Acetate	EPA 8260B	12C0524	1.0	0.81	ND	1	3/13/2012	3/13/2012	E8
Vinyl chloride	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Xylenes, Total	EPA 8260B	12C0524	1.0	0.86	ND	1	3/13/2012	3/13/2012	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*94 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-04 (MW-1S-B-030612 - Water)						**Sampled: 03/06/12**			
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	10	7.3	ND	1	3/13/2012	3/13/2012	E8
Benzene	EPA 8260B	12C0524	0.50	0.12	ND	1	3/13/2012	3/13/2012	E8
Bromobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Bromochloromethane	EPA 8260B	12C0524	0.50	0.27	ND	1	3/13/2012	3/13/2012	E8
Bromodichloromethane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Bromoform	EPA 8260B	12C0524	1.0	0.37	ND	1	3/13/2012	3/13/2012	E8
Bromomethane	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.5	2.2	ND	1	3/13/2012	3/13/2012	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
n-Butylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Carbon disulfide	EPA 8260B	12C0524	0.50	0.10	ND	1	3/13/2012	3/13/2012	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
Chlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
Chloroethane	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
Chloroform	EPA 8260B	12C0524	0.50	0.13	**0.98**	1	3/13/2012	3/13/2012	
Chloromethane	EPA 8260B	12C0524	1.0	0.21	ND	1	3/13/2012	3/13/2012	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	2.5	0.82	ND	1	3/13/2012	3/13/2012	E8
Dibromochloromethane	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.50	0.30	ND	1	3/13/2012	3/13/2012	E8
Dibromomethane	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.29	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
2,2-Dichloropropane	EPA 8260B	12C0524	1.0	0.18	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.47	ND	1	3/13/2012	3/13/2012	E8
Ethylbenzene	EPA 8260B	12C0524	0.50	0.32	ND	1	3/13/2012	3/13/2012	E8
Hexachlorobutadiene	EPA 8260B	12C0524	1.0	0.28	ND	1	3/13/2012	3/13/2012	B1, E8

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-04 (MW-1S-B-030612 - Water) - cont.						**Sampled: 03/06/12**			
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	2.5	1.5	ND	1	3/13/2012	3/13/2012	E8
Iodomethane	EPA 8260B	12C0524	2.5	0.21	ND	1	3/13/2012	3/13/2012	E8
Isopropylbenzene	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
Methylene Chloride	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	2.5	1.3	ND	1	3/13/2012	3/13/2012	E8
Naphthalene	EPA 8260B	12C0524	2.5	0.51	ND	1	3/13/2012	3/13/2012	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Styrene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.35	ND	1	3/13/2012	3/13/2012	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.33	ND	1	3/13/2012	3/13/2012	E8
Tetrachloroethene	EPA 8260B	12C0524	0.50	0.18	**0.67**	1	3/13/2012	3/13/2012	
Toluene	EPA 8260B	12C0524	0.50	0.28	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.32	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.45	ND	1	3/13/2012	3/13/2012	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
Trichloroethene	EPA 8260B	12C0524	0.50	0.24	ND	1	3/13/2012	3/13/2012	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	1.0	0.78	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Vinyl Acetate	EPA 8260B	12C0524	1.0	0.81	ND	1	3/13/2012	3/13/2012	E8
Vinyl chloride	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Xylenes, Total	EPA 8260B	12C0524	1.0	0.86	ND	1	3/13/2012	3/13/2012	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*94 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-05 (Trip Blank - Water)						**Sampled: 03/06/12**			
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	10	7.3	ND	1	3/13/2012	3/13/2012	E8
Benzene	EPA 8260B	12C0524	0.50	0.12	ND	1	3/13/2012	3/13/2012	E8
Bromobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Bromochloromethane	EPA 8260B	12C0524	0.50	0.27	ND	1	3/13/2012	3/13/2012	E8
Bromodichloromethane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Bromoform	EPA 8260B	12C0524	1.0	0.37	ND	1	3/13/2012	3/13/2012	E8
Bromomethane	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.5	2.2	ND	1	3/13/2012	3/13/2012	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
n-Butylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
Carbon disulfide	EPA 8260B	12C0524	0.50	0.10	ND	1	3/13/2012	3/13/2012	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
Chlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
Chloroethane	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
Chloroform	EPA 8260B	12C0524	0.50	0.13	ND	1	3/13/2012	3/13/2012	E8
Chloromethane	EPA 8260B	12C0524	1.0	0.21	ND	1	3/13/2012	3/13/2012	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	2.5	0.82	ND	1	3/13/2012	3/13/2012	E8
Dibromochloromethane	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.50	0.30	ND	1	3/13/2012	3/13/2012	E8
Dibromomethane	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.50	0.29	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
2,2-Dichloropropane	EPA 8260B	12C0524	1.0	0.18	ND	1	3/13/2012	3/13/2012	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.50	0.23	ND	1	3/13/2012	3/13/2012	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.14	ND	1	3/13/2012	3/13/2012	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.50	0.20	ND	1	3/13/2012	3/13/2012	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.50	0.47	ND	1	3/13/2012	3/13/2012	E8
Ethylbenzene	EPA 8260B	12C0524	0.50	0.32	ND	1	3/13/2012	3/13/2012	E8
Hexachlorobutadiene	EPA 8260B	12C0524	1.0	0.28	**0.61**	1	3/13/2012	3/13/2012	N1, E4

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0465-05 (Trip Blank - Water) - cont.						**Sampled: 03/06/12**			
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	2.5	1.5	ND	1	3/13/2012	3/13/2012	E8
Iodomethane	EPA 8260B	12C0524	2.5	0.21	ND	1	3/13/2012	3/13/2012	E8
Isopropylbenzene	EPA 8260B	12C0524	0.50	0.26	ND	1	3/13/2012	3/13/2012	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.50	0.22	ND	1	3/13/2012	3/13/2012	E8
Methylene Chloride	EPA 8260B	12C0524	1.0	0.67	ND	1	3/13/2012	3/13/2012	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	2.5	1.3	ND	1	3/13/2012	3/13/2012	E8
Naphthalene	EPA 8260B	12C0524	2.5	0.51	ND	1	3/13/2012	3/13/2012	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Styrene	EPA 8260B	12C0524	0.50	0.17	ND	1	3/13/2012	3/13/2012	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.35	ND	1	3/13/2012	3/13/2012	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.50	0.33	ND	1	3/13/2012	3/13/2012	E8
Tetrachloroethene	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Toluene	EPA 8260B	12C0524	0.50	0.28	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.32	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	1.0	0.45	ND	1	3/13/2012	3/13/2012	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.50	0.31	ND	1	3/13/2012	3/13/2012	E8
Trichloroethene	EPA 8260B	12C0524	0.50	0.24	ND	1	3/13/2012	3/13/2012	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.50	0.15	ND	1	3/13/2012	3/13/2012	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	1.0	0.78	ND	1	3/13/2012	3/13/2012	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.25	ND	1	3/13/2012	3/13/2012	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.50	0.21	ND	1	3/13/2012	3/13/2012	E8
Vinyl Acetate	EPA 8260B	12C0524	1.0	0.81	ND	1	3/13/2012	3/13/2012	E8
Vinyl chloride	EPA 8260B	12C0524	0.50	0.18	ND	1	3/13/2012	3/13/2012	E8
Xylenes, Total	EPA 8260B	12C0524	1.0	0.86	ND	1	3/13/2012	3/13/2012	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*94 %*				
Surrogate: Dibromofluoromethane (70-130%)					*98 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505
Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Blank Analyzed: 03/13/2012 (12C0524-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505
Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Blank Analyzed: 03/13/2012 (12C0524-BLK1)										
cis-1,3-Dichloropropene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	1.14	1.0	ug/l							*B1*
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.2*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*25.1*		*ug/l*	*25.0*		*100*	*70-130*			

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
LCS Analyzed: 03/13/2012 (12C0524-BS1)										
Acetone	30.8	10	ug/l	25.0		123	30-150			
Benzene	26.4	0.50	ug/l	25.0		106	70-130			
Bromobenzene	27.6	0.50	ug/l	25.0		110	70-130			
Bromochloromethane	25.7	0.50	ug/l	25.0		103	70-130			
Bromodichloromethane	24.9	0.50	ug/l	25.0		100	70-130			
Bromoform	26.6	1.0	ug/l	25.0		106	67-122			
Bromomethane	24.5	1.0	ug/l	25.0		98	64-132			
2-Butanone (MEK)	29.6	2.5	ug/l	25.0		119	48-150			
tert-Butylbenzene	28.9	0.50	ug/l	25.0		115	70-130			
n-Butylbenzene	27.7	0.50	ug/l	25.0		111	70-130			
sec-Butylbenzene	27.2	0.50	ug/l	25.0		109	70-130			
Carbon disulfide	24.2	0.50	ug/l	25.0		97	61-126			
Carbon tetrachloride	23.9	0.50	ug/l	25.0		96	70-130			
Chlorobenzene	24.6	0.50	ug/l	25.0		98	70-130			
Chloroethane	24.7	0.50	ug/l	25.0		99	69-128			
Chloroform	23.1	0.50	ug/l	25.0		92	70-130			
Chloromethane	27.2	1.0	ug/l	25.0		109	56-131			
4-Chlorotoluene	26.3	0.50	ug/l	25.0		105	70-130			
2-Chlorotoluene	25.9	0.50	ug/l	25.0		104	70-130			
1,2-Dibromo-3-chloropropane	28.5	2.5	ug/l	25.0		114	63-129			
Dibromochloromethane	24.6	0.50	ug/l	25.0		98	70-130			
1,2-Dibromoethane (EDB)	25.2	0.50	ug/l	25.0		101	70-130			
Dibromomethane	25.6	0.50	ug/l	25.0		102	70-130			
1,2-Dichlorobenzene	27.2	0.50	ug/l	25.0		109	70-130			
1,4-Dichlorobenzene	25.4	0.50	ug/l	25.0		101	70-130			
1,3-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130			
Dichlorodifluoromethane	24.1	0.50	ug/l	25.0		96	42-150			
1,1-Dichloroethane	23.5	0.50	ug/l	25.0		94	70-130			
1,2-Dichloroethane	23.6	0.50	ug/l	25.0		94	72-133			
cis-1,2-Dichloroethene	26.3	0.50	ug/l	25.0		105	70-130			
trans-1,2-Dichloroethene	25.2	0.50	ug/l	25.0		101	70-130			
1,1-Dichloroethene	24.0	0.50	ug/l	25.0		96	70-130			
1,2-Dichloropropane	25.5	0.50	ug/l	25.0		102	70-130			
2,2-Dichloropropane	24.2	1.0	ug/l	25.0		97	70-130			
1,3-Dichloropropane	24.6	0.50	ug/l	25.0		99	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
LCS Analyzed: 03/13/2012 (12C0524-BS1)										
cis-1,3-Dichloropropene	29.9	0.50	ug/l	25.0		120	70-130			
1,1-Dichloropropene	25.8	0.50	ug/l	25.0		103	70-130			
trans-1,3-Dichloropropene	25.8	0.50	ug/l	25.0		103	70-130			
Ethylbenzene	27.0	0.50	ug/l	25.0		108	70-130			
Hexachlorobutadiene	27.7	1.0	ug/l	25.0		111	70-130			
2-Hexanone	34.4	2.5	ug/l	25.0		138	44-150			
Iodomethane	26.2	2.5	ug/l	25.0		105	58-138			
Isopropylbenzene	31.1	0.50	ug/l	25.0		124	70-130			
p-Isopropyltoluene	26.7	0.50	ug/l	25.0		107	70-130			
Methyl-tert-butyl Ether (MTBE)	25.4	0.50	ug/l	25.0		102	70-130			
Methylene Chloride	21.6	1.0	ug/l	25.0		86	70-130			
4-Methyl-2-pentanone (MIBK)	28.7	2.5	ug/l	25.0		115	61-142			
Naphthalene	32.2	2.5	ug/l	25.0		129	65-129			
n-Propylbenzene	28.8	0.50	ug/l	25.0		115	70-130			
Styrene	26.7	0.50	ug/l	25.0		107	70-130			
1,1,1,2-Tetrachloroethane	24.8	0.50	ug/l	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	25.9	0.50	ug/l	25.0		104	70-130			
Tetrachloroethene	24.6	0.50	ug/l	25.0		98	70-130			
Toluene	26.8	0.50	ug/l	25.0		107	70-130			
1,2,4-Trichlorobenzene	31.7	1.0	ug/l	25.0		127	70-130			
1,2,3-Trichlorobenzene	31.9	1.0	ug/l	25.0		128	70-130			
1,1,1-Trichloroethane	23.3	0.50	ug/l	25.0		93	70-130			
1,1,2-Trichloroethane	25.9	0.50	ug/l	25.0		104	70-130			
Trichloroethene	25.1	0.50	ug/l	25.0		100	70-130			
Trichlorofluoromethane	26.7	0.50	ug/l	25.0		107	78-149			
1,2,3-Trichloropropane	26.6	1.0	ug/l	25.0		106	70-130			
1,2,4-Trimethylbenzene	27.0	0.50	ug/l	25.0		108	70-130			
1,3,5-Trimethylbenzene	27.1	0.50	ug/l	25.0		108	70-130			
Vinyl Acetate	29.4	1.0	ug/l	25.0		118	57-149			
Vinyl chloride	25.6	0.50	ug/l	25.0		102	66-134			
Xylenes, Total	52.7	1.0	ug/l	50.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.2*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*25.4*		*ug/l*	*25.0*		*102*	*70-130*			

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
LCS Dup Analyzed: 03/13/2012 (12C0524-BSD1)										
Acetone	23.5	10	ug/l	25.0		94	30-150	27	35	
Benzene	27.4	0.50	ug/l	25.0		110	70-130	4	20	
Bromobenzene	27.5	0.50	ug/l	25.0		110	70-130	0.07	20	
Bromochloromethane	26.1	0.50	ug/l	25.0		104	70-130	1	20	
Bromodichloromethane	24.6	0.50	ug/l	25.0		98	70-130	1	20	
Bromoform	27.3	1.0	ug/l	25.0		109	67-122	3	20	
Bromomethane	25.9	1.0	ug/l	25.0		104	64-132	6	20	
2-Butanone (MEK)	25.5	2.5	ug/l	25.0		102	48-150	15	33	
tert-Butylbenzene	29.7	0.50	ug/l	25.0		119	70-130	3	20	
n-Butylbenzene	28.7	0.50	ug/l	25.0		115	70-130	3	20	
sec-Butylbenzene	27.8	0.50	ug/l	25.0		111	70-130	2	20	
Carbon disulfide	26.7	0.50	ug/l	25.0		107	61-126	10	20	
Carbon tetrachloride	25.0	0.50	ug/l	25.0		100	70-130	4	20	
Chlorobenzene	25.4	0.50	ug/l	25.0		102	70-130	3	20	
Chloroethane	26.1	0.50	ug/l	25.0		104	69-128	5	20	
Chloroform	23.6	0.50	ug/l	25.0		95	70-130	2	20	
Chloromethane	28.7	1.0	ug/l	25.0		115	56-131	5	20	
4-Chlorotoluene	26.6	0.50	ug/l	25.0		106	70-130	1	20	
2-Chlorotoluene	26.2	0.50	ug/l	25.0		105	70-130	1	20	
1,2-Dibromo-3-chloropropane	30.3	2.5	ug/l	25.0		121	63-129	6	25	
Dibromochloromethane	25.3	0.50	ug/l	25.0		101	70-130	3	20	
1,2-Dibromoethane (EDB)	25.6	0.50	ug/l	25.0		102	70-130	1	20	
Dibromomethane	25.8	0.50	ug/l	25.0		103	70-130	0.9	20	
1,2-Dichlorobenzene	27.2	0.50	ug/l	25.0		109	70-130	0.07	20	
1,4-Dichlorobenzene	25.9	0.50	ug/l	25.0		104	70-130	2	20	
1,3-Dichlorobenzene	26.4	0.50	ug/l	25.0		106	70-130	0.08	20	
Dichlorodifluoromethane	25.2	0.50	ug/l	25.0		101	42-150	4	20	
1,1-Dichloroethane	24.3	0.50	ug/l	25.0		97	70-130	3	20	
1,2-Dichloroethane	24.4	0.50	ug/l	25.0		97	72-133	3	20	
cis-1,2-Dichloroethene	27.0	0.50	ug/l	25.0		108	70-130	3	20	
trans-1,2-Dichloroethene	26.3	0.50	ug/l	25.0		105	70-130	4	20	
1,1-Dichloroethene	25.3	0.50	ug/l	25.0		101	70-130	5	20	
1,2-Dichloropropane	26.0	0.50	ug/l	25.0		104	70-130	2	20	
2,2-Dichloropropane	25.7	1.0	ug/l	25.0		103	70-130	6	20	
1,3-Dichloropropane	25.2	0.50	ug/l	25.0		101	70-130	2	20	

TestAmerica Phoenix

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
LCS Dup Analyzed: 03/13/2012 (12C0524-BSD1)										
cis-1,3-Dichloropropene	29.2	0.50	ug/l	25.0		117	70-130	3	20	
1,1-Dichloropropene	26.9	0.50	ug/l	25.0		108	70-130	4	20	
trans-1,3-Dichloropropene	26.1	0.50	ug/l	25.0		104	70-130	1	20	
Ethylbenzene	27.7	0.50	ug/l	25.0		111	70-130	3	20	
Hexachlorobutadiene	28.5	1.0	ug/l	25.0		114	70-130	3	20	
2-Hexanone	28.0	2.5	ug/l	25.0		112	44-150	21	31	
Iodomethane	27.7	2.5	ug/l	25.0		111	58-138	6	25	
Isopropylbenzene	31.6	0.50	ug/l	25.0		126	70-130	2	20	
p-Isopropyltoluene	26.8	0.50	ug/l	25.0		107	70-130	0.6	20	
Methyl-tert-butyl Ether (MTBE)	26.2	0.50	ug/l	25.0		105	70-130	3	20	
Methylene Chloride	22.5	1.0	ug/l	25.0		90	70-130	4	20	
4-Methyl-2-pentanone (MIBK)	28.4	2.5	ug/l	25.0		114	61-142	1	22	
Naphthalene	32.9	2.5	ug/l	25.0		132	65-129	2	20	*L3*
n-Propylbenzene	29.7	0.50	ug/l	25.0		119	70-130	3	20	
Styrene	27.2	0.50	ug/l	25.0		109	70-130	2	20	
1,1,1,2-Tetrachloroethane	25.7	0.50	ug/l	25.0		103	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.7	0.50	ug/l	25.0		103	70-130	0.8	20	
Tetrachloroethene	25.9	0.50	ug/l	25.0		103	70-130	5	20	
Toluene	27.7	0.50	ug/l	25.0		111	70-130	3	20	
1,2,4-Trichlorobenzene	32.3	1.0	ug/l	25.0		129	70-130	2	20	
1,2,3-Trichlorobenzene	32.2	1.0	ug/l	25.0		129	70-130	1	20	
1,1,1-Trichloroethane	24.3	0.50	ug/l	25.0		97	70-130	4	20	
1,1,2-Trichloroethane	26.3	0.50	ug/l	25.0		105	70-130	2	20	
Trichloroethene	25.8	0.50	ug/l	25.0		103	70-130	3	20	
Trichlorofluoromethane	29.0	0.50	ug/l	25.0		116	78-149	8	20	
1,2,3-Trichloropropane	26.0	1.0	ug/l	25.0		104	70-130	2	20	
1,2,4-Trimethylbenzene	27.2	0.50	ug/l	25.0		109	70-130	0.8	20	
1,3,5-Trimethylbenzene	27.5	0.50	ug/l	25.0		110	70-130	2	20	
Vinyl Acetate	30.8	1.0	ug/l	25.0		123	57-149	5	21	
Vinyl chloride	27.0	0.50	ug/l	25.0		108	66-134	5	20	
Xylenes, Total	54.7	1.0	ug/l	50.0		109	70-130	4	20	
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.3*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Matrix Spike Analyzed: 03/13/2012 (12C0524-MS1)					**Source: PVC0524-01**					
Acetone	13.5	10	ug/l	25.0	ND	54	10-150			
Benzene	27.7	0.50	ug/l	25.0	ND	111	70-130			
Bromobenzene	27.6	0.50	ug/l	25.0	ND	110	70-130			
Bromochloromethane	26.3	0.50	ug/l	25.0	ND	105	70-130			
Bromodichloromethane	24.9	0.50	ug/l	25.0	ND	100	70-130			
Bromoform	26.2	1.0	ug/l	25.0	ND	105	62-126			
Bromomethane	25.9	1.0	ug/l	25.0	ND	104	55-136			
2-Butanone (MEK)	19.1	2.5	ug/l	25.0	ND	76	22-150			
tert-Butylbenzene	30.1	0.50	ug/l	25.0	ND	120	70-130			
n-Butylbenzene	29.4	0.50	ug/l	25.0	ND	118	70-130			
sec-Butylbenzene	29.0	0.50	ug/l	25.0	ND	116	70-130			
Carbon disulfide	27.6	0.50	ug/l	25.0	ND	111	56-132			
Carbon tetrachloride	26.2	0.50	ug/l	25.0	ND	105	76-131			
Chlorobenzene	26.0	0.50	ug/l	25.0	ND	104	70-130			
Chloroethane	27.3	0.50	ug/l	25.0	ND	109	67-134			
Chloroform	24.3	0.50	ug/l	25.0	0.530	95	70-130			
Chloromethane	28.8	1.0	ug/l	25.0	ND	115	50-135			
4-Chlorotoluene	27.0	0.50	ug/l	25.0	ND	108	70-130			
2-Chlorotoluene	26.6	0.50	ug/l	25.0	ND	106	70-130			
1,2-Dibromo-3-chloropropane	26.4	2.5	ug/l	25.0	ND	106	60-135			
Dibromochloromethane	24.9	0.50	ug/l	25.0	ND	100	70-130			
1,2-Dibromoethane (EDB)	25.2	0.50	ug/l	25.0	ND	101	70-130			
Dibromomethane	24.6	0.50	ug/l	25.0	ND	98	70-130			
1,2-Dichlorobenzene	27.3	0.50	ug/l	25.0	ND	109	70-130			
1,4-Dichlorobenzene	25.8	0.50	ug/l	25.0	ND	103	70-130			
1,3-Dichlorobenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
Dichlorodifluoromethane	26.0	0.50	ug/l	25.0	ND	104	36-150			
1,1-Dichloroethane	24.0	0.50	ug/l	25.0	ND	96	70-130			
1,2-Dichloroethane	23.5	0.50	ug/l	25.0	ND	94	68-143			
cis-1,2-Dichloroethene	27.0	0.50	ug/l	25.0	ND	108	70-130			
trans-1,2-Dichloroethene	26.3	0.50	ug/l	25.0	ND	105	70-130			
1,1-Dichloroethene	26.8	0.50	ug/l	25.0	ND	107	70-130			
1,2-Dichloropropane	26.0	0.50	ug/l	25.0	ND	104	70-130			
2,2-Dichloropropane	26.7	1.0	ug/l	25.0	ND	107	66-130			
1,3-Dichloropropane	24.9	0.50	ug/l	25.0	ND	100	70-130			

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Matrix Spike Analyzed: 03/13/2012 (12C0524-MS1)					**Source: PVC0524-01**					
cis-1,3-Dichloropropene	29.0	0.50	ug/l	25.0	ND	116	70-130			
1,1-Dichloropropene	28.2	0.50	ug/l	25.0	ND	113	70-130			
trans-1,3-Dichloropropene	25.5	0.50	ug/l	25.0	ND	102	71-132			
Ethylbenzene	28.5	0.50	ug/l	25.0	ND	114	70-130			
Hexachlorobutadiene	29.5	1.0	ug/l	25.0	ND	118	66-129			
2-Hexanone	21.7	2.5	ug/l	25.0	ND	87	18-150			
Iodomethane	27.8	2.5	ug/l	25.0	ND	111	47-141			
Isopropylbenzene	32.3	0.50	ug/l	25.0	ND	129	78-137			
p-Isopropyltoluene	27.7	0.50	ug/l	25.0	ND	111	70-130			
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	ug/l	25.0	ND	97	67-138			
Methylene Chloride	22.2	1.0	ug/l	25.0	ND	89	74-132			
4-Methyl-2-pentanone (MIBK)	25.5	2.5	ug/l	25.0	ND	102	56-145			
Naphthalene	30.8	2.5	ug/l	25.0	ND	123	54-135			
n-Propylbenzene	30.2	0.50	ug/l	25.0	ND	121	70-130			
Styrene	26.4	0.50	ug/l	25.0	ND	105	51-123			
1,1,1,2-Tetrachloroethane	26.0	0.50	ug/l	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	24.8	0.50	ug/l	25.0	ND	99	69-133			
Tetrachloroethene	28.0	0.50	ug/l	25.0	0.420	111	70-130			
Toluene	28.0	0.50	ug/l	25.0	ND	112	70-130			
1,2,4-Trichlorobenzene	31.3	1.0	ug/l	25.0	ND	125	66-126			
1,2,3-Trichlorobenzene	30.6	1.0	ug/l	25.0	ND	122	70-130			
1,1,1-Trichloroethane	25.1	0.50	ug/l	25.0	ND	100	76-132			
1,1,2-Trichloroethane	25.3	0.50	ug/l	25.0	ND	101	70-130			
Trichloroethene	27.0	0.50	ug/l	25.0	ND	108	70-130			
Trichlorofluoromethane	31.3	0.50	ug/l	25.0	ND	125	74-150			
1,2,3-Trichloropropane	25.3	1.0	ug/l	25.0	ND	101	70-130			
1,2,4-Trimethylbenzene	26.7	0.50	ug/l	25.0	ND	107	70-130			
1,3,5-Trimethylbenzene	27.9	0.50	ug/l	25.0	ND	111	61-138			
Vinyl Acetate	28.9	1.0	ug/l	25.0	ND	116	50-150			
Vinyl chloride	28.5	0.50	ug/l	25.0	ND	114	58-139			
Xylenes, Total	55.5	1.0	ug/l	50.0	ND	111	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.2*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*70-130*			

TestAmerica Phoenix

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Matrix Spike Dup Analyzed: 03/13/2012 (12C0524-MSD1)					**Source: PVC0524-01**					
Acetone	14.9	10	ug/l	25.0	ND	60	10-150	10	35	
Benzene	26.9	0.50	ug/l	25.0	ND	108	70-130	3	20	
Bromobenzene	26.9	0.50	ug/l	25.0	ND	108	70-130	3	20	
Bromochloromethane	26.3	0.50	ug/l	25.0	ND	105	70-130	0.2	20	
Bromodichloromethane	24.3	0.50	ug/l	25.0	ND	97	70-130	2	20	
Bromoform	24.4	1.0	ug/l	25.0	ND	98	62-126	7	20	
Bromomethane	25.2	1.0	ug/l	25.0	ND	101	55-136	3	24	
2-Butanone (MEK)	20.1	2.5	ug/l	25.0	ND	80	22-150	5	31	
tert-Butylbenzene	28.8	0.50	ug/l	25.0	ND	115	70-130	4	20	
n-Butylbenzene	27.8	0.50	ug/l	25.0	ND	111	70-130	6	20	
sec-Butylbenzene	27.9	0.50	ug/l	25.0	ND	112	70-130	4	20	
Carbon disulfide	19.1	0.50	ug/l	25.0	ND	77	56-132	36	20	*N1a*
Carbon tetrachloride	24.6	0.50	ug/l	25.0	ND	98	76-131	6	20	
Chlorobenzene	24.9	0.50	ug/l	25.0	ND	100	70-130	4	20	
Chloroethane	25.6	0.50	ug/l	25.0	ND	102	67-134	7	20	
Chloroform	23.5	0.50	ug/l	25.0	0.530	92	70-130	3	20	
Chloromethane	27.7	1.0	ug/l	25.0	ND	111	50-135	4	20	
4-Chlorotoluene	25.5	0.50	ug/l	25.0	ND	102	70-130	6	20	
2-Chlorotoluene	25.4	0.50	ug/l	25.0	ND	101	70-130	5	20	
1,2-Dibromo-3-chloropropane	27.3	2.5	ug/l	25.0	ND	109	60-135	3	29	
Dibromochloromethane	23.9	0.50	ug/l	25.0	ND	96	70-130	4	20	
1,2-Dibromoethane (EDB)	25.9	0.50	ug/l	25.0	ND	104	70-130	3	20	
Dibromomethane	25.7	0.50	ug/l	25.0	ND	103	70-130	4	20	
1,2-Dichlorobenzene	26.0	0.50	ug/l	25.0	ND	104	70-130	5	20	
1,4-Dichlorobenzene	25.1	0.50	ug/l	25.0	ND	100	70-130	3	20	
1,3-Dichlorobenzene	25.6	0.50	ug/l	25.0	ND	103	70-130	4	20	
Dichlorodifluoromethane	25.4	0.50	ug/l	25.0	ND	101	36-150	2	22	
1,1-Dichloroethane	23.5	0.50	ug/l	25.0	ND	94	70-130	2	20	
1,2-Dichloroethane	23.6	0.50	ug/l	25.0	ND	94	68-143	0.2	20	
cis-1,2-Dichloroethene	26.5	0.50	ug/l	25.0	ND	106	70-130	2	20	
trans-1,2-Dichloroethene	25.6	0.50	ug/l	25.0	ND	102	70-130	3	20	
1,1-Dichloroethene	25.7	0.50	ug/l	25.0	ND	103	70-130	4	20	
1,2-Dichloropropane	25.6	0.50	ug/l	25.0	ND	103	70-130	1	20	
2,2-Dichloropropane	25.6	1.0	ug/l	25.0	ND	103	66-130	4	20	
1,3-Dichloropropane	24.8	0.50	ug/l	25.0	ND	99	70-130	0.2	20	

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12										
Matrix Spike Dup Analyzed: 03/13/2012 (12C0524-MSD1)					**Source: PVC0524-01**					
cis-1,3-Dichloropropene	26.7	0.50	ug/l	25.0	ND	107	70-130	8	20	
1,1-Dichloropropene	27.2	0.50	ug/l	25.0	ND	109	70-130	4	20	
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0	ND	97	71-132	5	20	
Ethylbenzene	27.6	0.50	ug/l	25.0	ND	110	70-130	3	20	
Hexachlorobutadiene	27.9	1.0	ug/l	25.0	ND	111	66-129	6	21	
2-Hexanone	23.5	2.5	ug/l	25.0	ND	94	18-150	8	25	
Iodomethane	26.8	2.5	ug/l	25.0	ND	107	47-141	3	29	
Isopropylbenzene	31.2	0.50	ug/l	25.0	ND	125	78-137	4	20	
p-Isopropyltoluene	26.5	0.50	ug/l	25.0	ND	106	70-130	5	20	
Methyl-tert-butyl Ether (MTBE)	24.9	0.50	ug/l	25.0	ND	100	67-138	3	21	
Methylene Chloride	21.9	1.0	ug/l	25.0	ND	87	74-132	2	20	
4-Methyl-2-pentanone (MIBK)	26.7	2.5	ug/l	25.0	ND	107	56-145	5	26	
Naphthalene	31.3	2.5	ug/l	25.0	ND	125	54-135	1	33	
n-Propylbenzene	28.8	0.50	ug/l	25.0	ND	115	70-130	5	20	
Styrene	26.7	0.50	ug/l	25.0	ND	107	51-123	1	21	
1,1,1,2-Tetrachloroethane	25.2	0.50	ug/l	25.0	ND	101	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.1	0.50	ug/l	25.0	ND	100	69-133	1	20	
Tetrachloroethene	26.5	0.50	ug/l	25.0	0.420	104	70-130	6	20	
Toluene	27.4	0.50	ug/l	25.0	ND	110	70-130	2	20	
1,2,4-Trichlorobenzene	30.6	1.0	ug/l	25.0	ND	123	66-126	2	20	
1,2,3-Trichlorobenzene	30.3	1.0	ug/l	25.0	ND	121	70-130	1	20	
1,1,1-Trichloroethane	24.3	0.50	ug/l	25.0	ND	97	76-132	3	20	
1,1,2-Trichloroethane	26.1	0.50	ug/l	25.0	ND	104	70-130	3	20	
Trichloroethene	26.1	0.50	ug/l	25.0	ND	104	70-130	3	20	
Trichlorofluoromethane	29.6	0.50	ug/l	25.0	ND	118	74-150	6	20	
1,2,3-Trichloropropane	25.2	1.0	ug/l	25.0	ND	101	70-130	0.2	20	
1,2,4-Trimethylbenzene	26.0	0.50	ug/l	25.0	ND	104	70-130	3	20	
1,3,5-Trimethylbenzene	26.8	0.50	ug/l	25.0	ND	107	61-138	4	33	
Vinyl Acetate	29.2	1.0	ug/l	25.0	ND	117	50-150	1	23	
Vinyl chloride	27.2	0.50	ug/l	25.0	ND	109	58-139	5	21	
Xylenes, Total	54.1	1.0	ug/l	50.0	ND	108	70-130	3	20	
Surrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*23.4*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate	Project ID: APS 501,502, & 505	
P.O. Box 53999, M/S 9307		Sampled: 03/06/12
Phoenix, AZ 85072-3999	Report Number: PVC0465	Received: 03/06/12
Attention: Judy Heywood		

DATA QUALIFIERS AND DEFINITIONS

B1	Target analyte detected in method blank at or above the method reporting limit.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
L3	The associated blank spike recovery was above method acceptance limits.
N1	See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVC0465

Sampled: 03/06/12
Received: 03/06/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
NA	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 03/12/2012

TestAmerica
Phoenix

Instrument ID	GCMS 9
Date:	3/12/12
Analyst	MS
Method(s)	8260/624
50 ppm Cal. Std.	PV01506
500 / 250 ppm EtOH/TBA Cal. Std.	PV01212
50 ppm SS Std.	PV01459
500 / 250 ppm EtOH/TBA SS Std.	PV01311

This table outlines the initial calibration preparation for GCMS 9 & GCMS 13.

	FINAL CONCENTRATIONS (ppb)		SPIKE AMOUNTS (uL)	
Calibration number	ISTD / Surrogates *	Target Compounds VOC / EtOH / TBA	Calibration standard 50 ppm and Ethanol/TBA standard 500 ppm /250 ppm	Final Volume (mL)
1	25	0.5 / 2.5 / 5	1	100
2	25	1 / 5 10	1	50
3	25	2 / 10 / 20	2	50
4	25	5 / 25 / 50	5	50
5	25	10 / 50 / 100	10	50
6*	**25**	**25 / 125 / 250**	**25**	**50**
7	25	50 / 250 / 500	50	50
8	25	100 / 500 / 1000	100	50
9	25	200 / 1000 / 2000	200	50

SS/ICVs are at the same level as Calibration point #6 and prepared the same way.

Reviewed By: _____ Date: 3/14/12

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\031212

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	03121201.D	1.	BLANK		12 Mar 2012 07:52
2	3	03121202.D	1.	BLANK		12 Mar 2012 08:25
3	1	03121203.D	1.	TUNE		12 Mar 2012 08:54
4	1	03121204.D	1.	TUNE		12 Mar 2012 10:02
5	2	03121205.D	1.	25 PPB CCV		12 Mar 2012 10:31
6	3	03121206.D	1.	BLANK		12 Mar 2012 11:05
7	1	03121207.D	1.	TUNE		12 Mar 2012 11:41
8	1	03121208.D	1.	TUNE		12 Mar 2012 11:55
9	2	03121209.D	1.	25 PPB CCV		12 Mar 2012 12:24
10	2	03121210.D	1.	25 PPB CCV		12 Mar 2012 13:00
11	3	03121211.D	1.	25 PPB CCV		12 Mar 2012 13:32
12	1	03121212.D	1.	TUNE		12 Mar 2012 14:24
13	2	03121213.D	1.	25 PPB CCV		12 Mar 2012 14:49
14	2	03121214.D	1.	BLANK		12 Mar 2012 15:28
15	3	03121215.D	1.	BLANK		12 Mar 2012 15:59
16	4	03121216.D	1.	BLANK		12 Mar 2012 16:31
17	5	03121217.D	1.	BLANK		12 Mar 2012 17:03
18	6	03121218.D	1.	0.5 PPB CAL PT		12 Mar 2012 17:35
19	7	03121219.D	1.	1.0 PPB CAL PT		12 Mar 2012 18:06
20	8	03121220.D	1.	2.0 PPB CAL PT		12 Mar 2012 18:37
21	9	03121221.D	1.	5.0 PPB CAL PT		12 Mar 2012 19:09
22	10	03121222.D	1.	10 PPB CAL PT		12 Mar 2012 19:40
23	11	03121223.D	1.	25 PPB CAL PT		12 Mar 2012 20:12
24	12	03121224.D	1.	50 PPB CAL PT		12 Mar 2012 20:43
25	13	03121225.D	1.	100 PPB CAL PT		12 Mar 2012 21:15
26	14	03121226.D	1.	200 PPB CAL PT		12 Mar 2012 21:47
27	15	03121227.D	1.	BLANK		12 Mar 2012 22:18
28	16	03121228.D	1.	BLANK		12 Mar 2012 22:50
29	17	03121229.D	1.	25 PPB SS/ICV		12 Mar 2012 23:22
30	18	03121230.D	1.	20 PPB SS/ICV		12 Mar 2012 23:54

✓3/14/12

M 3/14/12

TestAmerica
Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 3/12/12 QC BATCH # (s) : NA

ANALYST: MJ SEQUENCE FILE: C:\GCMS9\DATA\ 031212.S

CALIBRATION METHOD(S): 022812.m

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
2	031212 01	Blank	✓	NA	8260	H_2O	
✓	02	↓	2 µl	↓	↓	NA	Accidentally injected BFB
✓	03	TUNE	2 µl	↓	↓	↓	Restart block
2	~~04~~	~~25 ppb CCV~~	~~✓~~	~~MJ 3/12/12~~		~~H_2O~~	~~Did not run~~ Contaminator freeze
✓	031212 04	TUNE	2 µl	NA	8260	NA	
2	05	25 ppb CCV	✓	↓	↓	H_2O	DW-VChigh
3	06	Blank	✓	↓	↓	↓	Clean out
✓	07	TUNE	2 µl	↓	↓	NA	DW Failed
✓	08	↓	2 µl	↓	↓	↓	OK
2	09	25 ppb CCV	✓	↓	↓	H_2O	DW-VChigh
3	10	↓	✓	↓	↓	↓	↓
4	11	↓	✓	↓	↓	↓	↓
✓	12	TUNE	2 µl	↓	8260/624	NA	After Bakeout
2	13	25 ppb CCV	✓	↓	↓	H_2O	DW-VChigh
3	14	Blank	✓	↓	↓	↓	
4	15	↓	✓	↓	↓	↓	
5	16	↓	✓	↓	↓	↓	
6	17	↓	✓	↓	↓	↓	
7	18	0.5 ppb Cal. pt.	✓	↓	↓	↓	
8	19	1.0	✓	↓	↓	↓	
9	20	2.0	✓	↓	↓	↓	
10	21	5.0	✓	↓	↓	↓	
11	22	10	✓	↓	↓	↓	
12	23	25	✓	↓	↓	↓	
13	24	50	✓	↓	↓	↓	
14	25	100	✓	↓	↓	↓	
15	26	200	✓	↓	↓	↓	
16	27	Blank	✓	↓	↓	↓	
17	28	↓	✓	↓	↓	↓	
18/19	29/30	25 ppb / 20 ppb SS/ICV	✓	↓	↓	↓	

STANDARD ID NUMBERS

ICV / H_2O LCS: PV01459 / PV01311

CCV/CALIBRATION STD: PV01506 / PV01212

IS/Surrogate: PV01488

BFB: PV00965

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 25 µl CCV std → 50 ml

PREPARATION: NA

ARCHON REVIEWED By/Date: MJ

SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: 3/14/12

RESPONSE FACTOR REPORT
Operator_____
Standard Lot_____
Reviewed by_____
GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

Calibration File
1 =03121218.D 2 =03121219.D 3 =03121220.D 4 =03121221.D
6 =03121223.D 7 =03121224.D 8 =03121225.D 9 =03121226.D =

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	
I	TBA-d9	ISTD											
T	Ethanol	—	—	—	—	—	0.104	0.130	0.137	0.129	0.125	11.76	
T	tert-Butanol (TBA)	—	—	1.884	1.722	1.725	1.793	1.698	1.735	1.659	1.745	4.20	
I	Pentafluorobenzene	ISTD											
T	Dichlorodifluoromethane	1.276	1.193	1.204	1.196	1.199	1.160	1.158	1.062	0.918	1.152	9.06	
P	Chloromethane	1.384	1.394	1.323	1.442	1.401	1.323	1.237	1.073	—	1.322	8.99	70.1
C	Vinyl Chloride	1.141	1.199	1.150	1.161	1.160	1.145	1.109	1.043	0.928	1.115	7.37	<30%
#													
T	1,3-Butadiene	0.692	0.628	0.682	0.674	0.689	0.682	0.675	0.638	0.579	0.660	5.67	
T	Bromomethane	0.923	0.902	0.830	0.833	0.829	0.771	0.760	0.732	0.695	0.808	9.35	
T	Chloroethane	0.690	0.641	0.666	0.667	0.670	0.654	0.668	0.644	0.601	0.656	3.86	
	Acrolein										0.000	-1.00	
T	Trichlorofluoromethane	0.793	0.830	0.874	0.921	0.985	1.004	0.999	1.002	1.000	0.934	8.89	
T	Acetone	—	—	—	0.224	0.214	0.184	0.168	0.216	0.215	0.204	10.79	
	Acrylonitrile										0.000	-1.00	
T	Iodomethane	1.244	1.162	1.155	1.148	1.176	1.142	1.148	1.126	1.101	1.156	3.42	
C	1,1-Dichloroethene	0.789	0.738	0.712	0.743	0.722	0.726	0.725	0.711	0.689	0.728	3.82	<30%
#													
T	Methylene Chloride	1.095	0.973	0.933	0.904	0.888	0.829	0.828	0.800	0.759	0.890	11.50	
T	Freon 113	0.788	0.841	0.850	0.837	0.842	0.808	0.797	0.779	0.748	0.810	4.30	
T	Carbon Disulfide	1.964	1.979	1.999	2.009	2.091	1.995	1.979	1.997	1.963	1.997	1.94	
T	trans-1,2-Dichloroethene	0.918	0.859	0.805	0.833	0.875	0.842	0.812	0.802	0.741	0.832	6.06	
T	MTBE	1.095	1.215	1.177	1.236	1.328	1.286	1.346	1.365	1.233	1.253	6.96	
P	1,1-Dichloroethane	1.566	1.614	1.576	1.548	1.595	1.503	1.435	1.415	1.247	1.500	7.82	70.1
T	Vinyl Acetate	0.944	0.910	0.954	1.028	1.145	1.175	1.246	1.180	1.035	1.069	11.35	
T	n-Hexane	0.140	0.117	0.147	0.155	0.151	0.153	0.144	0.142	0.136	0.143	8.01	
T	2-Butanone (MEK)	—	—	0.052	0.046	0.049	0.042	0.041	0.046	0.046	0.046	8.30	
T	Diisopropylether (DIPE)	2.599	2.809	2.904	3.059	2.962	2.811	2.791	2.617	2.393	2.772	7.41	

T	cis-1,2-Dichloroethene	0.705	0.758	0.744	0.800	0.811	0.774	0.757	0.739	0.713	0.756	4.74	
T	Bromochloromethane	0.295	0.306	0.303	0.326	0.332	0.313	0.301	0.295	0.292	0.307	4.60	
C	Chloroform	1.435	1.387	1.379	1.422	1.390	1.309	1.258	1.182	1.114	1.320	8.55	<30%
#													
T	2,2-Dichloropropane	0.850	0.825	0.842	0.848	0.852	0.770	0.744	0.690	0.635	0.784	10.16	
T	(ETBE) 2-Ethoxy-2-methyl propane	1.440	1.456	1.659	1.804	1.853	1.844	1.896	1.810	1.717	1.720	9.88	
S	Dibromofluoromethane(surr)	0.608	0.623	0.616	0.630	0.610	0.573	0.616	0.585	0.562	0.602	3.89	
T	Tetrahydrofuran	____	____	0.032	0.026	0.031	0.030	0.034	0.034	0.036	0.032	10.56	
T	1,2-Dichloroethane	0.839	0.903	0.867	0.878	0.851	0.826	0.812	0.775	0.743	0.833	6.06	
T	1,1,1-Trichloroethane	1.047	1.108	1.062	1.098	1.066	1.036	1.004	0.969	0.931	1.036	5.65	
T	(TAME) tert-Amyl methyl ether	____	0.964	1.052	1.171	1.189	1.238	1.314	1.266	1.230	1.178	9.87	
I	1,4-Difluorobenzene	----------ISTD----------											
T	1,1-Dichloropropene	0.489	0.517	0.539	0.557	0.593	0.574	0.552	0.547	0.511	0.542	5.99	
T	Carbon Tetrachloride	0.582	0.571	0.596	0.568	0.589	0.563	0.539	0.531	0.508	0.561	5.19	
T	Benzene	1.514	1.507	1.510	1.486	1.519	1.476	1.394	1.335	1.204	1.438	7.50	
T	Dibromomethane	0.205	0.205	0.214	0.214	0.225	0.209	0.208	0.202	0.197	0.209	3.84	
C	1,2-Dichloropropane	0.424	0.397	0.426	0.436	0.439	0.416	0.398	0.376	0.348	0.407	7.40	<30%
#													
T	Trichloroethene	0.457	0.427	0.444	0.433	0.433	0.427	0.408	0.396	0.376	0.422	5.91	
T	Bromodichloromethane	0.553	0.560	0.557	0.569	0.585	0.548	0.523	0.522	0.494	0.546	5.08	
	2-Chloroethyl vinylether	____	____	0.071	0.089	0.112	0.122	0.132	0.136	0.138	0.114	22.44	L
T	cis-1,3-Dichloropropene	0.467	0.421	0.469	0.532	0.570	0.585	0.571	0.565	0.539	0.524	11.05	
T	4-Methyl-2-pentanone (MIBK)	____	0.182	0.197	0.216	0.236	0.228	0.250	0.247	0.249	0.225	11.25	
T	trans-1,3-Dichloropropene	0.310	0.321	0.374	0.423	0.459	0.467	0.463	0.467	0.457	0.416	15.46	L
T	1,1,2-Trichloroethane	0.250	0.247	0.264	0.248	0.261	0.249	0.247	0.244	0.242	0.250	2.97	
S	Toluene-d8 (surr)	1.136	1.109	1.103	1.119	1.104	1.117	1.143	1.127	1.114	1.119	1.25	
C	Toluene	0.920	0.869	0.879	0.913	0.954	0.922	0.887	0.861	0.803	0.890	4.94	<30%
#													
I	Chlorobenzene-d5	----------ISTD----------											
T	1,3-Dichloropropane	0.536	0.485	0.550	0.546	0.550	0.539	0.526	0.522	0.490	0.527	4.67	
T	2-Hexanone	____	0.181	0.182	0.176	0.190	0.200	0.202	0.231	0.237	0.200	11.48	
T	Dibromochloromethane	0.347	0.358	0.391	0.368	0.394	0.389	0.390	0.393	0.381	0.379	4.54	
T	1,2-Dibromoethane	0.272	0.298	0.288	0.298	0.323	0.313	0.313	0.315	0.312	0.303	5.33	
T	Tetrachloroethene	0.354	0.363	0.385	0.371	0.387	0.381	0.358	0.360	0.348	0.368	3.90	
T	1,1,1,2-Tetrachloroethane	0.435	0.396	0.395	0.426	0.436	0.421	0.402	0.407	0.395	0.412	4.14	
P	Chlorobenzene	1.354	1.261	1.283	1.238	1.279	1.264	1.174	1.144	1.059	1.228	7.21	
C	Ethylbenzene	1.783	1.855	1.951	2.030	2.162	2.117	1.949	1.873	1.664	1.931	8.21	<30%
#													
T	m,p-Xylene	0.616	0.683	0.765	0.781	0.845	0.845	0.800	0.782	0.737	0.762	9.73	
T	Styrene	0.809	0.863	1.071	1.184	1.293	1.303	1.235	1.203	1.115	1.120	15.88	L
T	o-Xylene	0.626	0.724	0.790	0.809	0.820	0.827	0.765	0.744	0.690	0.755	8.83	
S	4-Bromofluorobenzene (surr)	0.506	0.504	0.519	0.513	0.518	0.520	0.533	0.518	0.478	0.512	3.00	
I	1,4-Dichlorobenzene-d4	----------ISTD----------											
P	Bromoform	0.402	0.382	0.401	0.423	0.452	0.461	0.474	0.496	0.497	0.443	9.66	
P	1,1,2,2-Tetrachloroethane	0.729	0.737	0.708	0.661	0.673	0.656	0.619	0.602	0.555	0.660	9.15	

T	1,2,3-Trichloropropane	0.159	0.178	0.184	0.173	0.180	0.188	0.182	0.187	0.186	0.180	5.10
T	trans-1,4-Dichloro-2-butene		0.185	0.202	0.208	0.236	0.243	0.242	0.247	0.236	0.225	10.35
T	Isopropylbenzene	2.707	3.108	3.570	3.788	4.097	4.040	3.814	3.779	3.420	3.592	12.55
T	Bromobenzene	0.886	0.853	0.887	0.901	0.962	0.962	0.939	0.950	0.918	0.918	4.22
T	n-Propylbenzene	3.944	4.264	4.625	4.883	5.160	5.083	4.766	4.644	4.053	4.602	9.41
T	2-Chlorotoluene	3.112	2.796	3.075	3.132	3.242	3.207	2.944	2.963	2.652	3.014	6.45
T	4-Chlorotoluene	2.762	2.878	3.159	3.182	3.317	3.270	3.015	2.994	2.676	3.028	7.40
T	1,3,5-Trimethylbenzene	3.054	2.992	3.374	3.586	3.671	3.684	3.366	3.353	2.962	3.338	8.44
T	tert-Butylbenzene	1.876	2.255	2.519	2.706	2.873	2.856	2.638	2.612	2.468	2.534	12.33
T	1,2,4-Trimethylbenzene	2.843	3.083	3.413	3.651	3.839	3.774	3.452	3.387	3.066	3.390	10.01
T	sec-Butylbenzene	3.857	3.931	4.262	4.480	4.652	4.549	4.087	3.999	3.554	4.152	8.72
T	1,3-Dichlorobenzene	1.805	1.890	1.918	1.853	1.904	1.848	1.745	1.760	1.662	1.821	4.67
T	1,4-Dichlorobenzene	1.890	1.920	1.926	1.839	1.892	1.831	1.726	1.707	1.639	1.819	5.70
T	4-Isopropyltoluene	3.324	3.285	3.482	3.603	3.719	3.618	3.277	3.214	2.922	3.383	7.33
T	1,2-Dichlorobenzene	1.487	1.485	1.517	1.582	1.623	1.629	1.475	1.465	1.438	1.523	4.67
T	n-Butylbenzene	2.868	2.936	3.303	3.440	3.606	3.518	3.147	3.006	2.708	3.170	9.91
T	1,2-Dibromo-3-chloropropane		0.089	0.080	0.085	0.090	0.095	0.087	0.080	0.090	0.087	6.16
T	1,2,4-Trichlorobenzene	0.862	0.838	0.929	1.023	1.141	1.164	1.019	0.978	1.037	0.999	11.18
T	Naphthalene			0.995	1.249	1.507	1.539	1.388	1.321	1.371	1.339	13.58
T	Hexachlorobutadiene		0.579	0.547	0.524	0.546	0.529	0.453	0.442	0.455	0.509	10.21
T	1,2,3-Trichlorobenzene		0.630	0.704	0.814	0.893	0.884	0.789	0.736	0.731	0.773	11.68

(#) = Out of Range

031212.M Wed Mar 14 10:32:44 2012

Calibration Status Report GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	5	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D
2	2	10	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D
3	3	20	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D
4	4	50	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D
5	5	100	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D
6	6	250	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D
7	7	500	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D
8	8	1000	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D
9	9	2000	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 13 09:25 2012	Mar 13 08:57 19112	12 Mar 2012 5:35 pm
2	2	Mar 13 09:25 2012	Mar 13 09:12 19112	12 Mar 2012 6:06 pm
3	3	Mar 13 09:25 2012	Mar 13 09:13 19112	12 Mar 2012 6:37 pm
4	4	Mar 13 09:25 2012	Mar 13 09:14 19112	12 Mar 2012 7:09 pm
5	5	Mar 13 09:25 2012	Mar 13 09:15 19112	12 Mar 2012 7:40 pm
6	6	Mar 13 09:26 2012	Mar 13 09:18 19112	12 Mar 2012 8:12 pm
7	7	Mar 13 09:26 2012	Mar 13 09:19 19112	12 Mar 2012 8:43 pm
8	8	Mar 13 09:26 2012	Mar 13 09:22 19112	12 Mar 2012 9:15 pm
9	9	Mar 13 09:26 2012	Mar 13 09:23 19112	12 Mar 2012 9:47 pm

031212.M Wed Mar 14 10:33:41 2012

3/14/12

MS 7/14/12

Compound List Report GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
Total Cpnds : 88

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	7.57	1.000	A	0	A	B
2	T	Ethanol	45	6.18	0.816	A	1	A	B
3	T	tert-Butanol (TBA)	59	7.68	1.014	A	1	A	B
4	I	Pentafluorobenzene	168	10.69	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.90	0.458	A	1	A	B
6	P	Chloromethane	50	5.13	0.480	A	1	A	B
7	C	Vinyl Chloride	62	5.48	0.513	A	1	A	B
8	T	1,3-Butadiene	54	5.55	0.519	A	2	A	B
9	T	Bromomethane	94	6.01	0.562	A	1	A	B
10	T	Chloroethane	64	6.20	0.580	A	2	A	B
11		Acrolein	56	7.01	0.656	A	1	A	B
12	T	Trichlorofluoromethane	101	7.08	0.663	A	1	A	B
13	T	Acetone	43	7.11	0.665	A	1	A	L
14		Acrylonitrile	53	7.61	0.712	A	1	A	B
15	T	Iodomethane	142	7.78	0.728	A	2	A	B
16	C	1,1-Dichloroethene	96	7.72	0.722	A	2	A	L
17	T	Methylene Chloride	84	7.87	0.736	A	2	A	B
18	T	Freon 113	101	8.00	0.749	A	2	A	B
19	T	Carbon Disulfide	76	8.30	0.776	A	2	A	B
20	T	trans-1,2-Dichloroethene	96	8.74	0.817	A	2	A	B
21	T	MTBE	73	8.87	0.830	A	1	A	B
22	P	1,1-Dichloroethane	63	9.06	0.847	A	2	A	B
23	T	Vinyl Acetate	43	9.20	0.860	A	1	A	B
24	T	n-Hexane	86	9.55	0.894	A	1	A	B
25	T	2-Butanone (MEK)	72	9.59	0.897	A	2	A	B
26	T	Diisopropylether (DIPE)	45	9.59	0.897	A	3	A	B
27	T	cis-1,2-Dichloroethene	96	9.78	0.915	A	2	A	B
28	T	Bromochloromethane	128	9.99	0.935	A	2	A	B
29	C	Chloroform	83	10.05	0.940	A	2	A	B
30	T	2,2-Dichloropropane	77	10.15	0.950	A	2	A	B
31	T	(ETBE) 2-Ethoxy-2-methyl propa	59	10.10	0.945	A	2	A	B
32	S	Dibromofluoromethane(surr)	113	10.20	0.954	A	0	A	B
33	T	Tetrahydrofuran	72	10.47	0.980	A	2	A	B
34	T	1,2-Dichloroethane	62	10.89	1.018	A	2	A	B
35	T	1,1,1-Trichloroethane	97	11.02	1.031	A	2	A	B
36	T	(TAME) tert-Amyl methyl ether	73	11.71	1.095	A	3	A	R
37	I	1,4-Difluorobenzene	114	11.81	1.000	A	0	A	B
38	T	1,1-Dichloropropene	75	11.25	0.952	A	2	A	B
39	T	Carbon Tetrachloride	117	11.49	0.973	A	2	A	B
40	T	Benzene	78	11.54	0.977	A	1	A	B
41	T	Dibromomethane	93	12.27	1.039	A	2	A	B
42	C	1,2-Dichloropropane	63	12.31	1.042	A	2	A	B
43	T	Trichloroethene	95	12.35	1.046	A	3	A	B
44	T	Bromodichloromethane	83	12.42	1.051	A	2	A	B
45		2-Chloroethyl vinylether	63	12.93	1.095	L	1	A	B
46	T	cis-1,3-Dichloropropene	75	13.24	1.121	A	2	A	B
47	T	4-Methyl-2-pentanone (MIBK)	43	13.39	1.133	A	1	A	L
48	T	trans-1,3-Dichloropropene	75	13.81	1.169	L	2	A	B
49	T	1,1,2-Trichloroethane	97	14.03	1.188	A	2	A	Q
50	S	Toluene-d8 (surr)	98	14.19	1.201	A	0	A	B
51	C	Toluene	92	14.29	1.210	A	2	A	Q
52	I	Chlorobenzene-d5	117	16.14	1.000	A	0	A	B
53	T	1,3-Dichloropropane	76	14.35	0.889	A	1	A	B
54	T	2-Hexanone	43	14.53	0.900	A	2	A	B
55	T	Dibromochloromethane	129	14.72	0.912	A	1	A	B
56	T	1,2-Dibromoethane	107	15.06	0.933	A	1	A	B
57	T	Tetrachloroethene	164	15.28	0.946	A	2	A	B
58	T	1,1,1,2-Tetrachloroethane	131	16.08	0.996	A	2	A	B
59	P	Chlorobenzene	112	16.19	1.003	A	2	A	B

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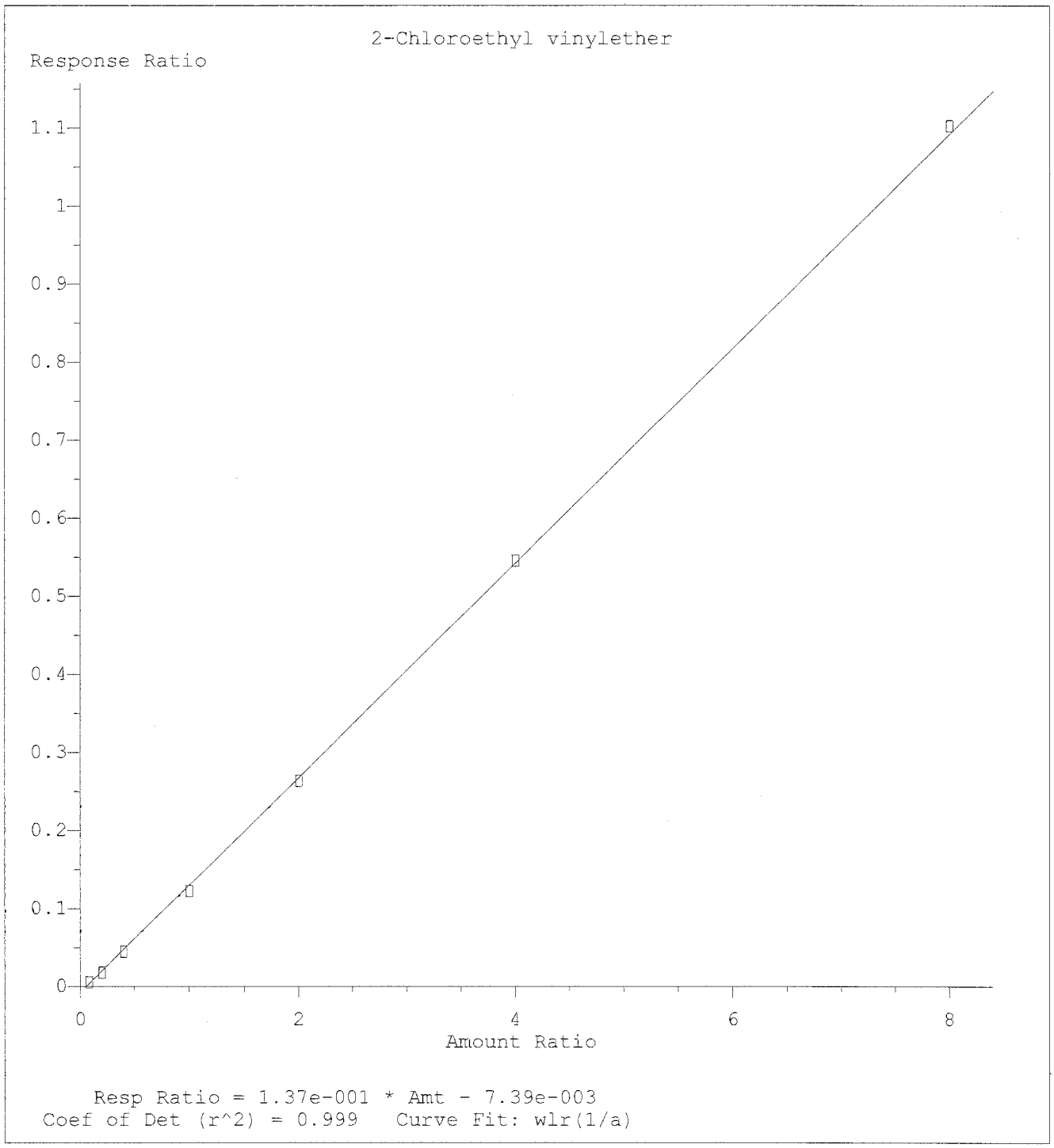
60	C	Ethylbenzene	91	16.45	1.019	A	1	A	B
61	T	m,p-Xylene	106	16.71	1.035	A	2	A	B
62	T	Styrene	104	17.16	1.063	L	3	A	B
63	T	o-Xylene	106	17.26	1.069	A	2	A	B
64	S	4-Bromofluorobenzene (surr)	95	17.82	1.104	A	2	A	B
65	I	1,4-Dichlorobenzene-d4	152	19.59	1.000	A	2	A	B
66	P	Bromoform	173	16.89	0.862	A	1	A	B
67	P	1,1,2,2-Tetrachloroethane	83	17.25	0.880	A	2	A	B
68	T	1,2,3-Trichloropropane	110	17.45	0.891	A	2	A	R
69	T	trans-1,4-Dichloro-2-butene	53	17.47	0.892	A	2	A	B
70	T	Isopropylbenzene	105	17.76	0.907	A	1	A	L
71	T	Bromobenzene	156	18.12	0.925	A	2	A	B
72	T	n-Propylbenzene	91	18.37	0.938	A	1	A	B
73	T	2-Chlorotoluene	91	18.51	0.945	A	1	A	R
74	T	4-Chlorotoluene	91	18.62	0.951	A	1	A	R
75	T	1,3,5-Trimethylbenzene	105	18.76	0.958	A	1	A	B
76	T	tert-Butylbenzene	119	19.14	0.977	A	2	A	B
77	T	1,2,4-Trimethylbenzene	105	19.29	0.985	A	1	A	B
78	T	sec-Butylbenzene	105	19.43	0.992	A	1	A	R
79	T	1,3-Dichlorobenzene	146	19.54	0.997	A	2	A	R
80	T	1,4-Dichlorobenzene	146	19.62	1.002	A	2	A	R
81	T	4-Isopropyltoluene	119	19.65	1.003	A	2	A	R
82	T	1,2-Dichlorobenzene	146	20.06	1.024	A	2	A	B
83	T	n-Butylbenzene	91	20.15	1.028	A	2	A	B
84	T	1,2-Dibromo-3-chloropropane	75	20.63	1.053	A	2	A	B
85	T	1,2,4-Trichlorobenzene	180	22.36	1.142	A	2	A	B
86	T	Naphthalene	128	22.72	1.160	A	1	A	B
87	T	Hexachlorobutadiene	225	22.76	1.162	A	2	A	B
88	T	1,2,3-Trichlorobenzene	180	22.99	1.173	A	2	A	B

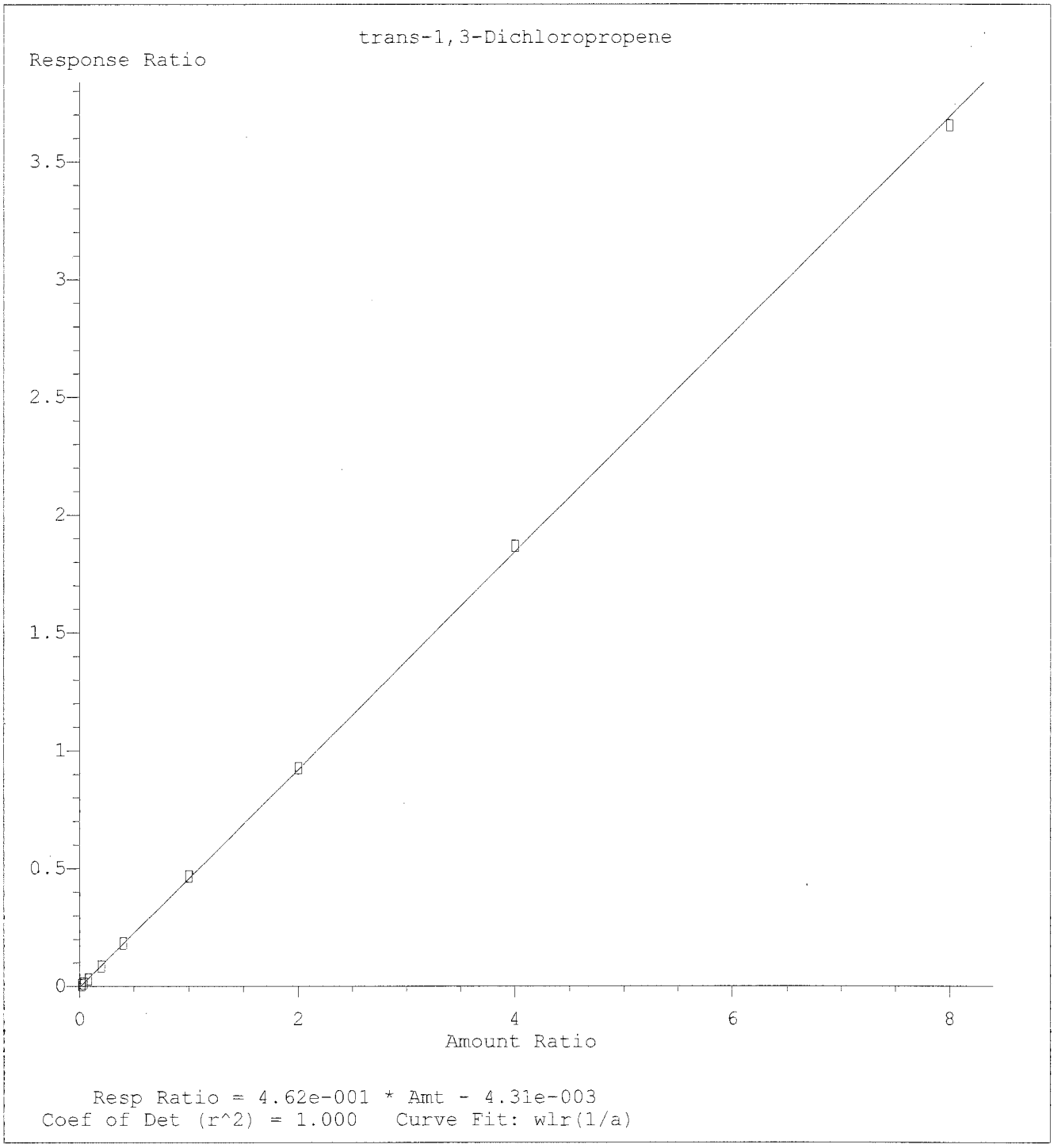
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031212.M Wed Mar 14 10:33:52 2012



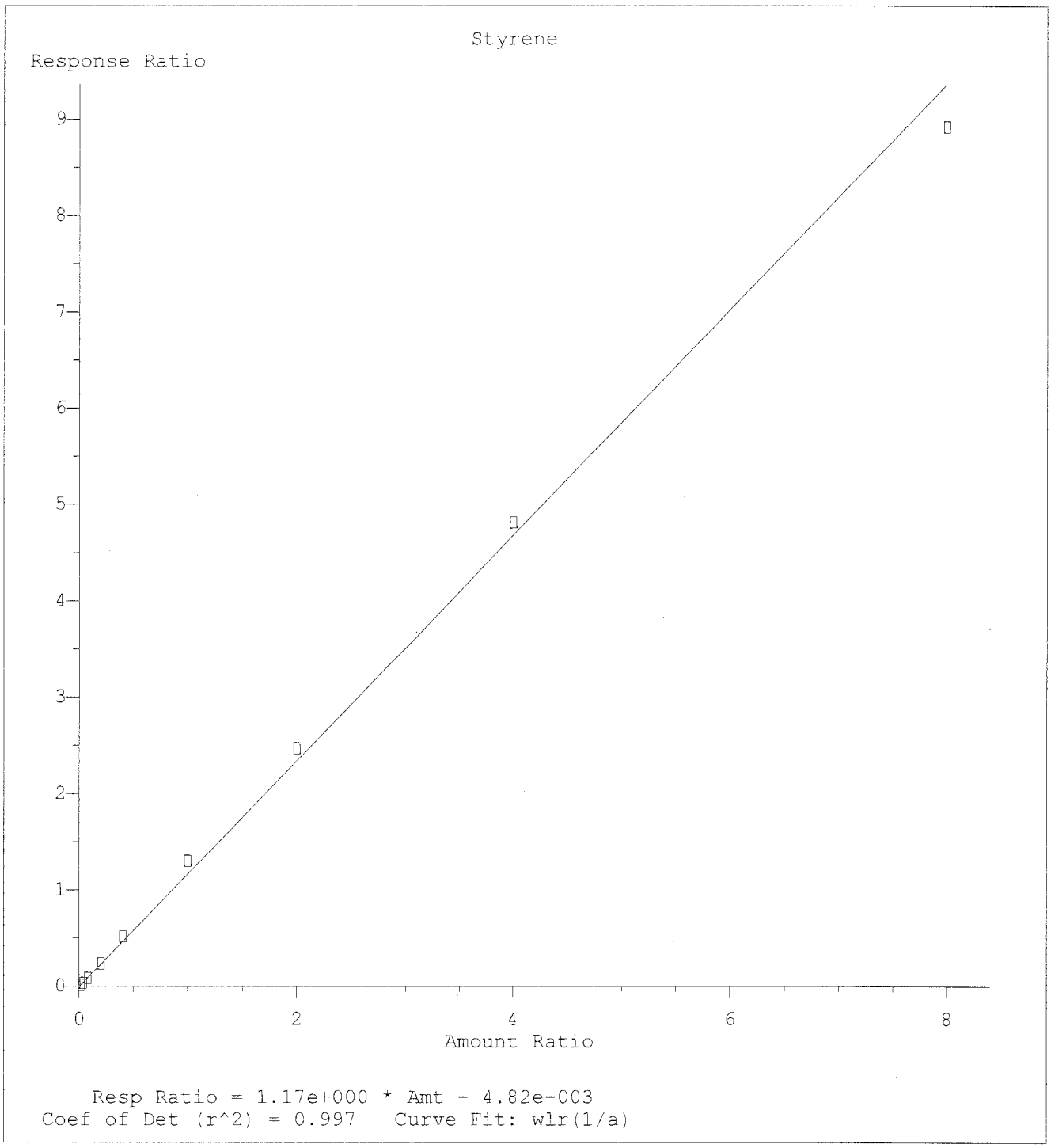
Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

v3/14/12



Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

3/14/12



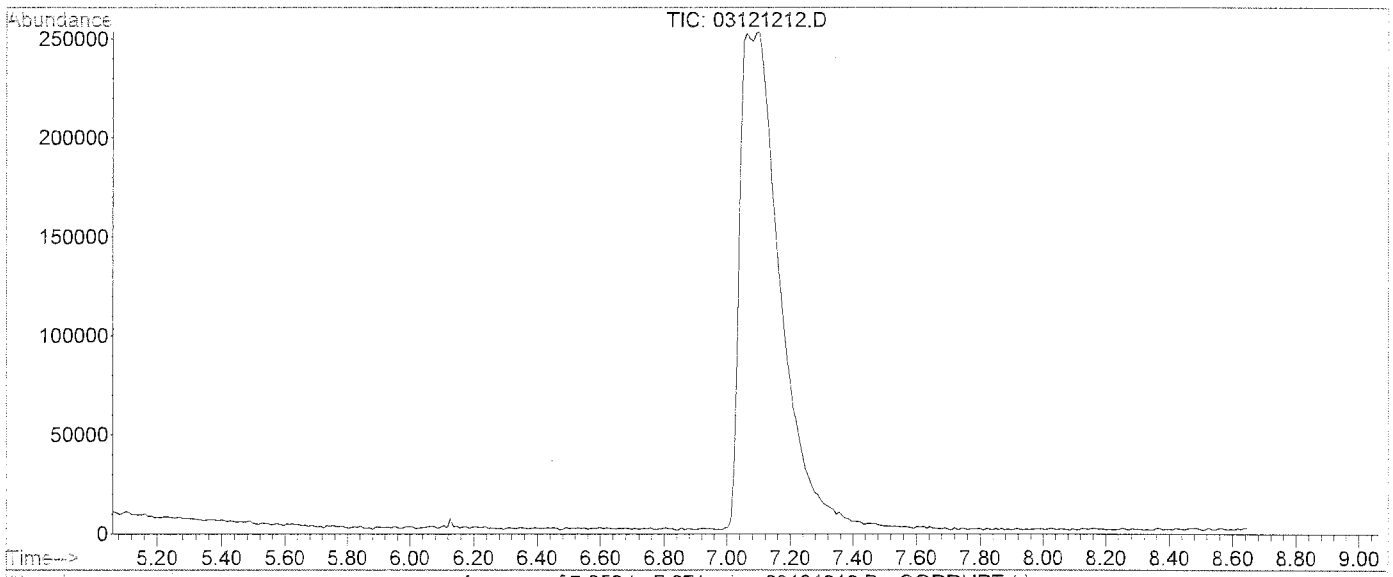
Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

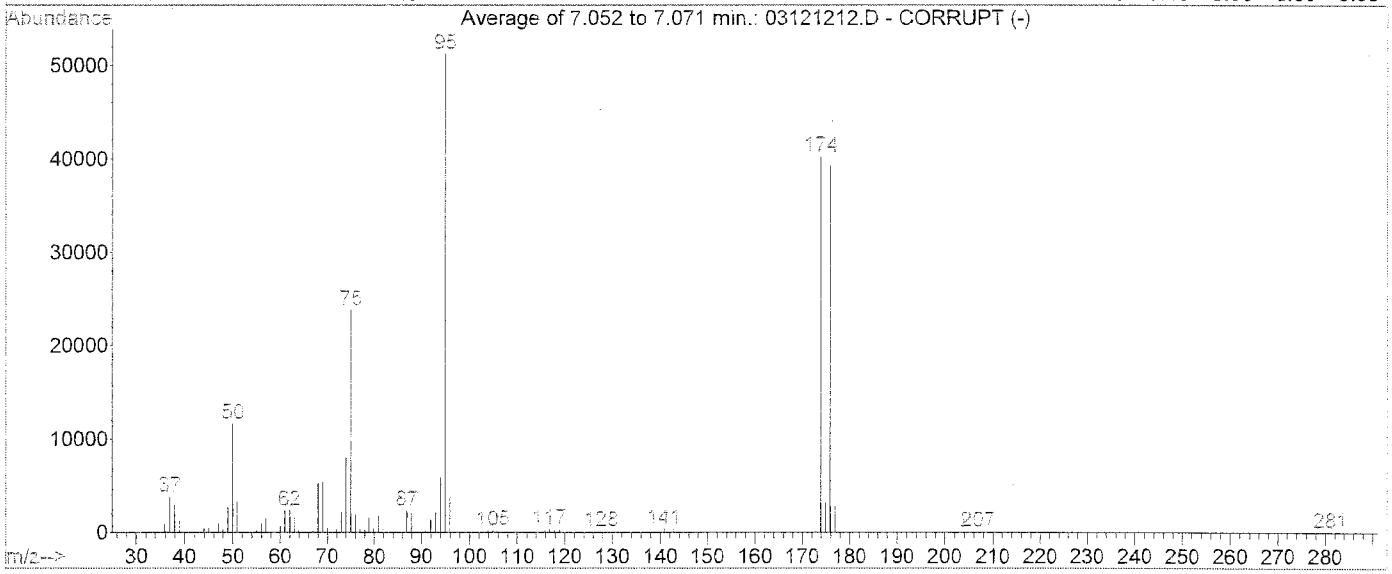
v3/14/12

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121212.D Vial: 1
Acq On : 12 Mar 2012 2:24 pm Operator: ms
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260

✓3/14/12





Spectrum Information: Average of 7.052 to 7.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	11639	PASS
75	95	30	60	46.5	23845	PASS
95	95	100	100	100.0	51245	PASS
96	95	5	9	7.3	3759	PASS
173	174	0.00	2	0.3	106	PASS
174	95	50	100	78.5	40243	PASS
175	174	5	9	7.8	3145	PASS
176	174	95	101	97.4	39197	PASS
177	176	5	9	7.1	2771	PASS

MC 3/14/12

03121212.D 022812.M Wed Mar 14 10:29:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 17:39 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	75566	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	459798	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	698677	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	570478	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	249941	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	271852	26.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.96%	
50) Toluene-d8 (surr)	14.19	98	773416	24.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	276904	23.19 ug/L	0.02
Spiked Amount 25.000			Recovery	= 92.76%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	219	3.05 ug/L #	3
13) Acetone	7.13	43	1717	0.47 ug/L #	59
17) Methylene Chloride	7.86	84	1655	0.11 ug/L #	65
33) Tetrahydrofuran	10.47	72	111	0.17 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	8227	0.37 ug/L #	38
87) Hexachlorobutadiene	22.76	225	1430	0.23 ug/L	98

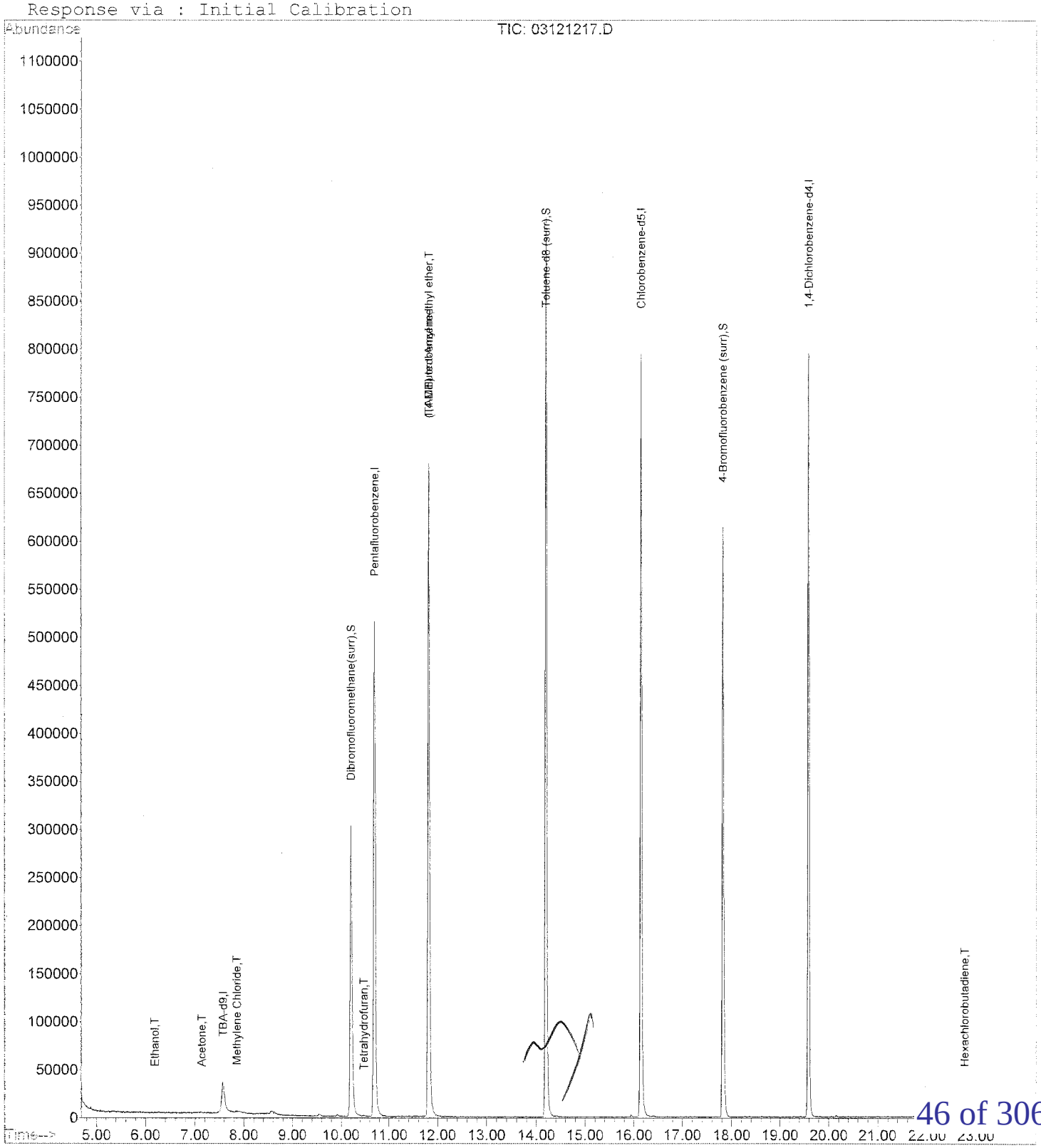
3/14/12

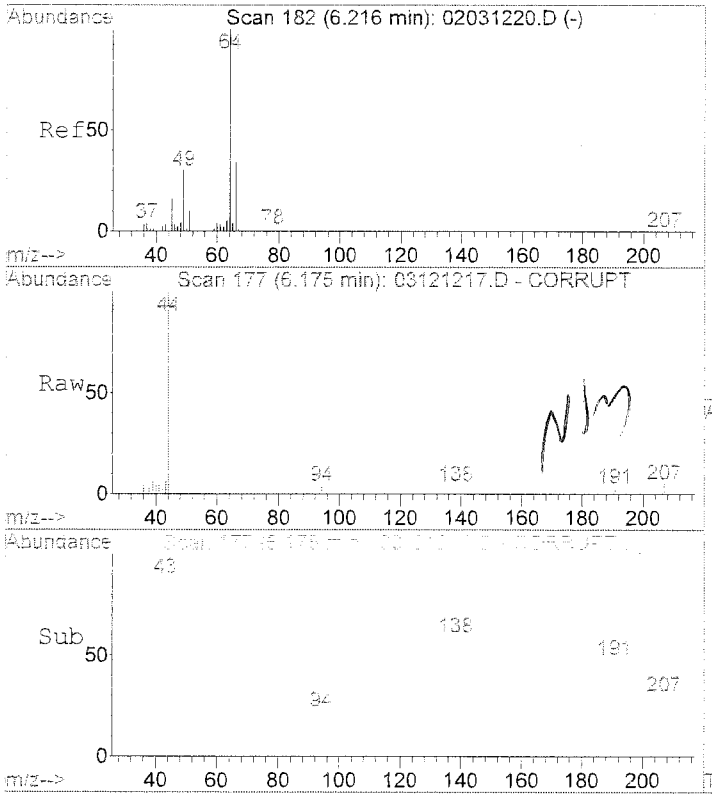
(#) = qualifier out of range (m) = manual integration
03121217.D 022812.M Wed Mar 14 10:29:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 17:39 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

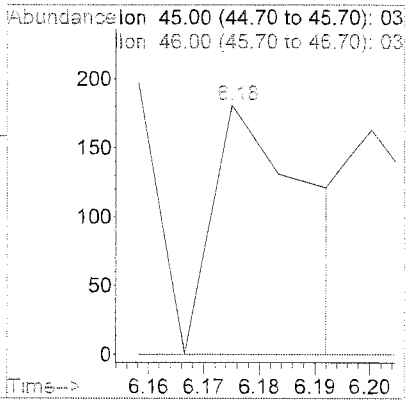


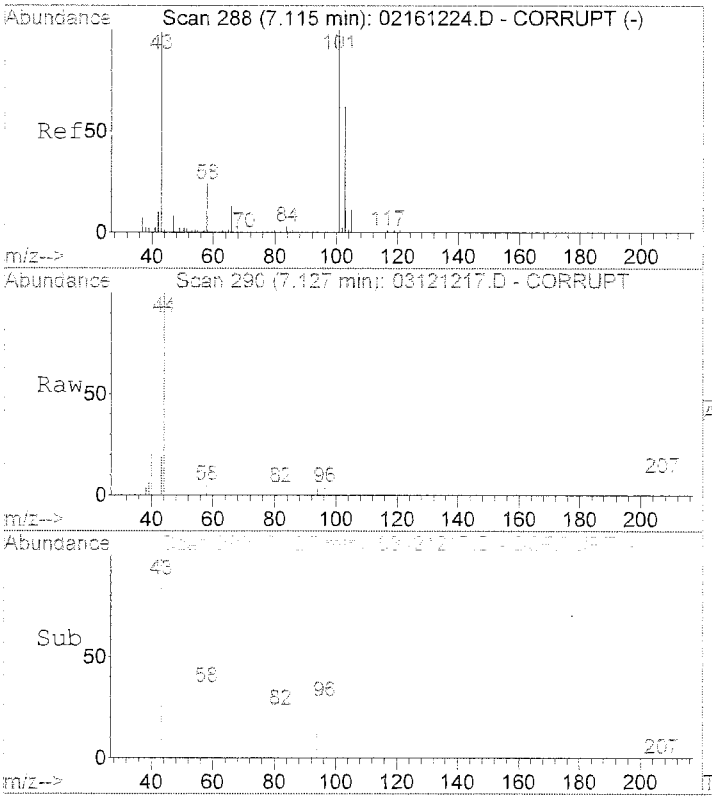


#2
Ethanol
Concen: 3.05 ug/L
RT: 6.18 min Scan# 177
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 45 Resp: 219

Ion	Ratio	Lower	Upper
45	100		
46	0.0	25.4	38.0#

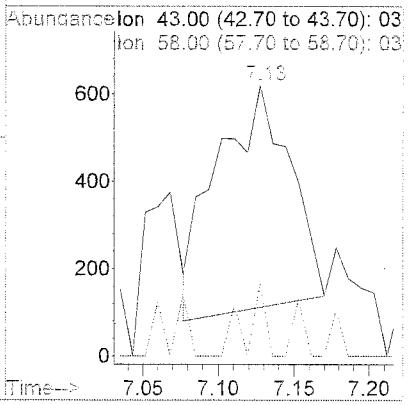


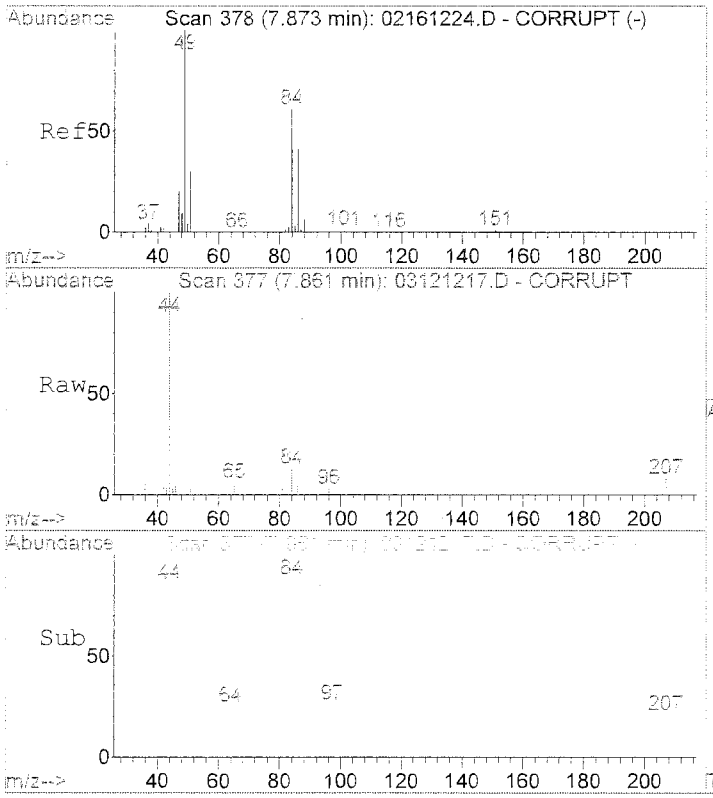


#13
Acetone
Concen: 0.47 ug/L
RT: 7.13 min Scan# 290
Delta R.T. 0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 43 Resp: 1717

Ion	Ratio	Lower	Upper
43	100		
58	3.4	18.6	27.8#

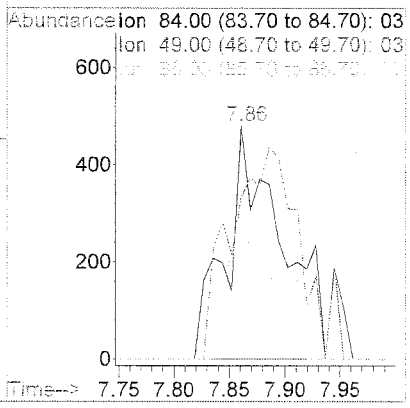


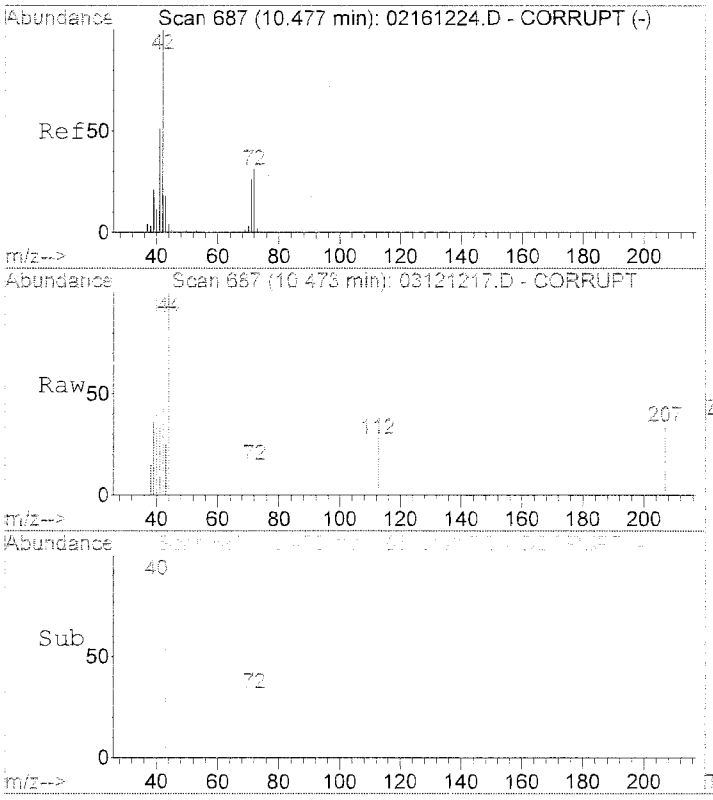


#17
Methylene Chloride
Concen: 0.11 ug/L
RT: 7.86 min Scan# 377
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 84 Resp: 1655

Ion	Ratio	Lower	Upper
84	100		
49	108.0	124.6	187.0#
86	40.1	51.5	77.3#

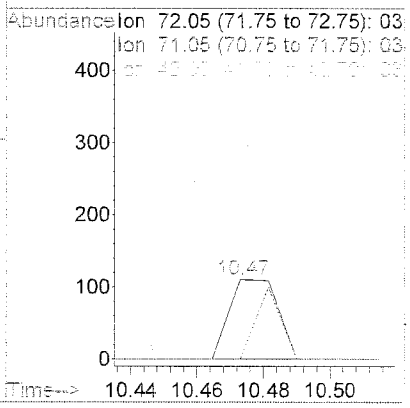


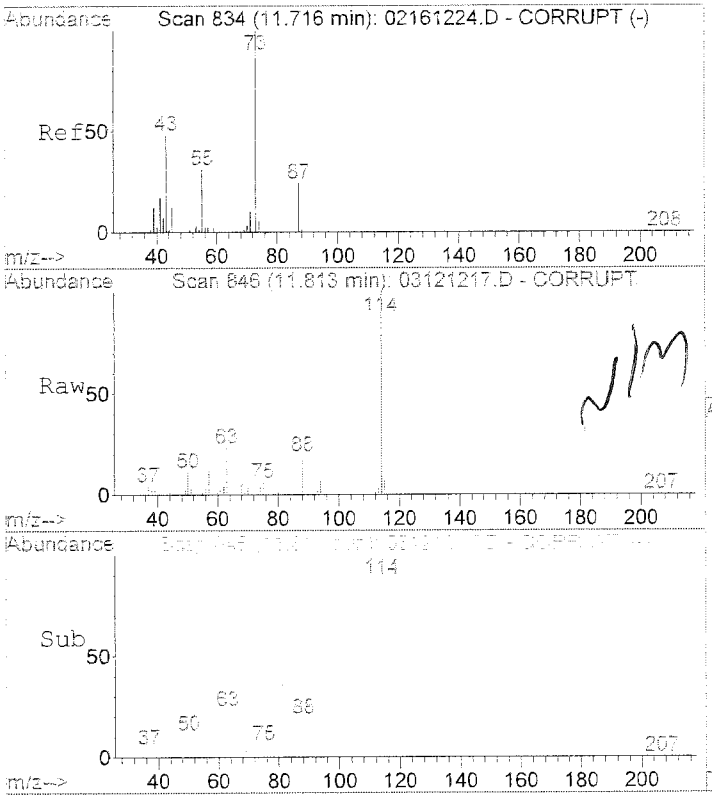


#33
Tetrahydrofuran
Concen: 0.17 ug/L
RT: 10.47 min Scan# 687
Delta R.T. 0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 72 Resp: 111

Ion	Ratio	Lower	Upper
72	100		
71	45.9	79.4	119.4#
42	745.9	301.1	341.1#

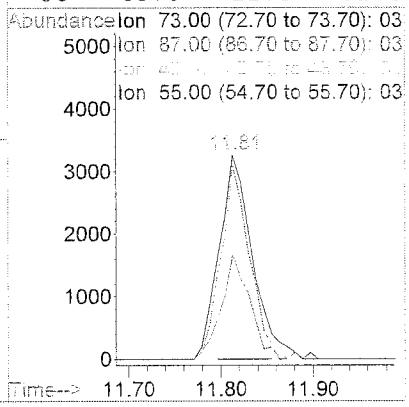


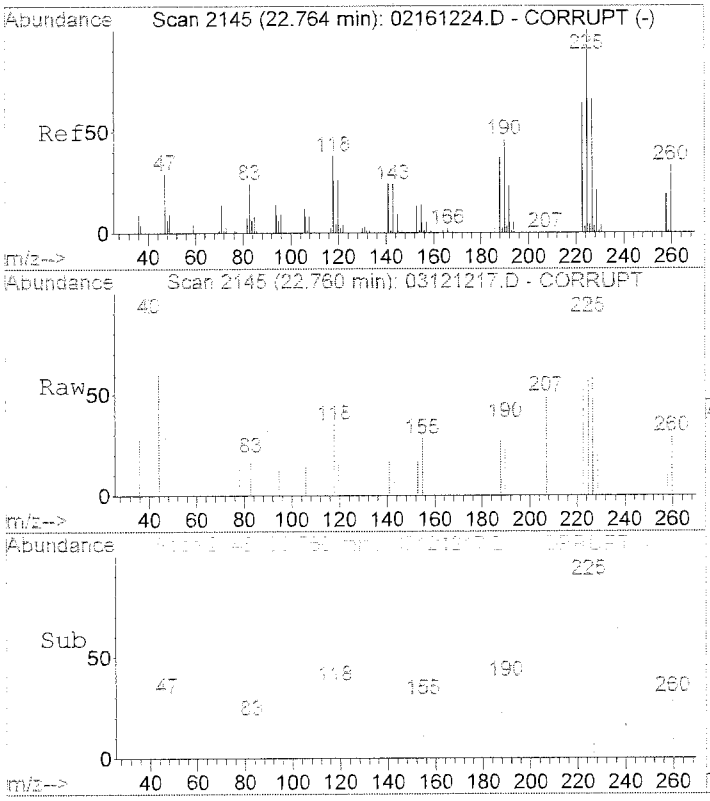


#36
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.11 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 73 Resp: 8227

Ion	Ratio	Lower	Upper
73	100		
87	81.6	3.6	43.6#
43	7.2	28.9	68.9#
55	43.3	11.3	51.3

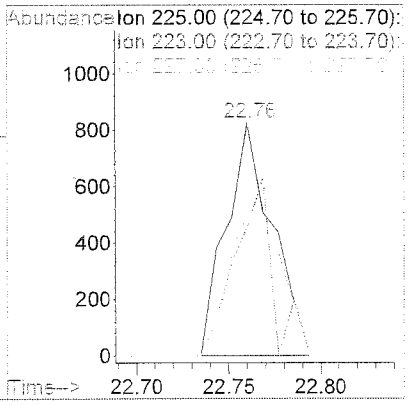




#87
Hexachlorobutadiene
Concen: 0.23 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:225 Resp: 1430

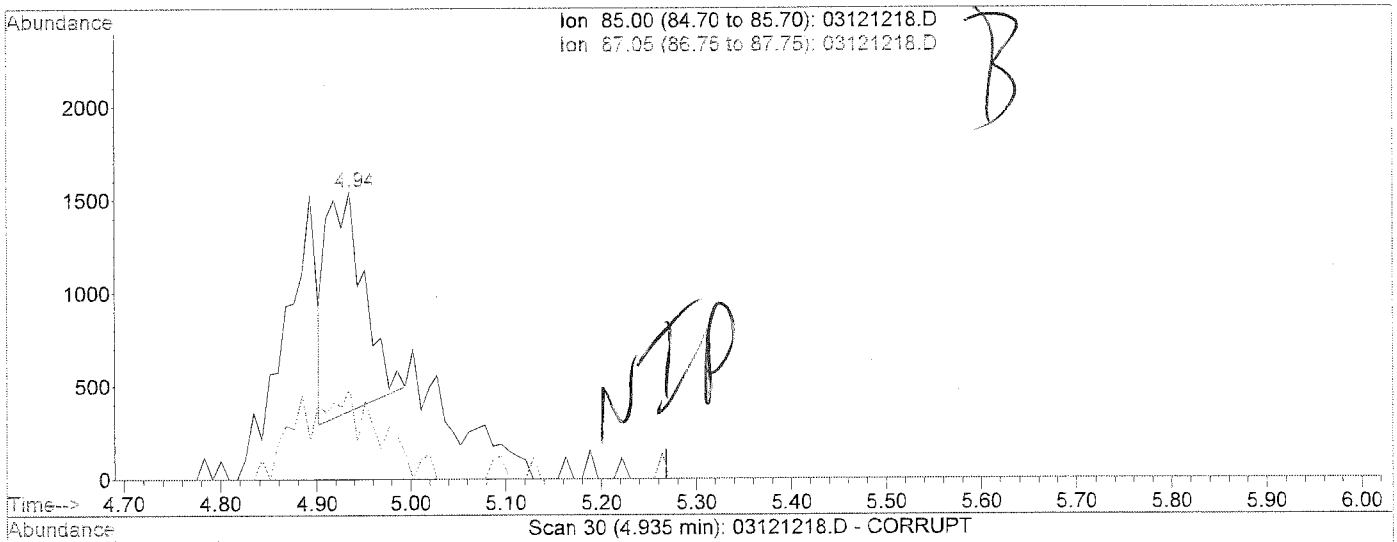
Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.2	73.8
227	65.5	50.5	75.7

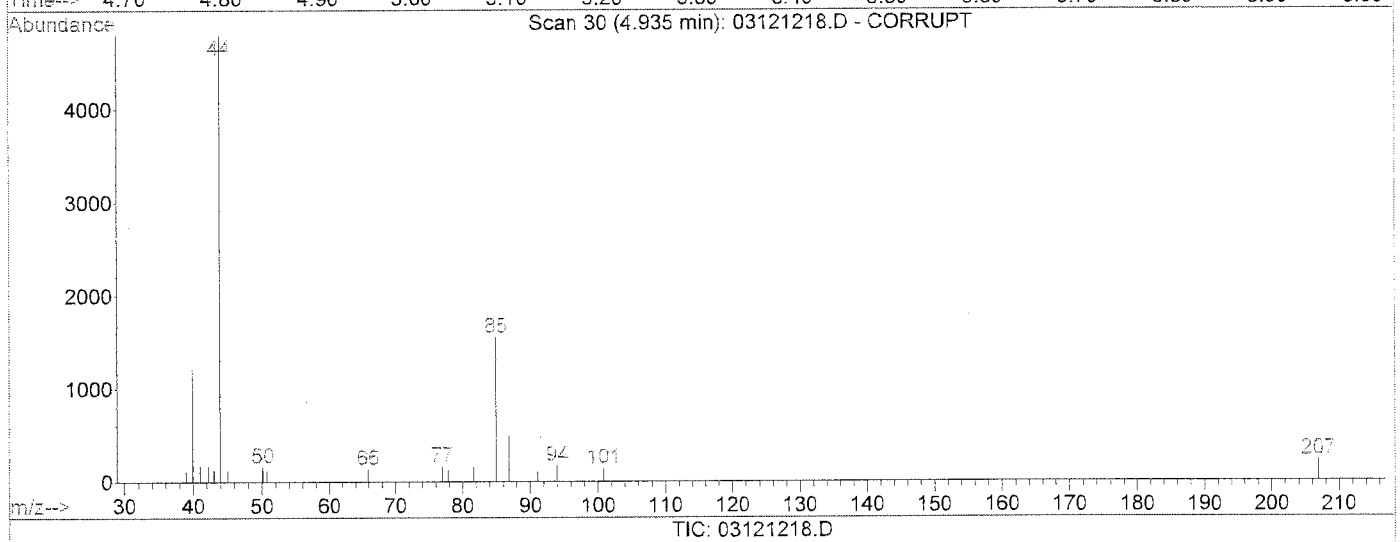


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.17ug/L

response 3375

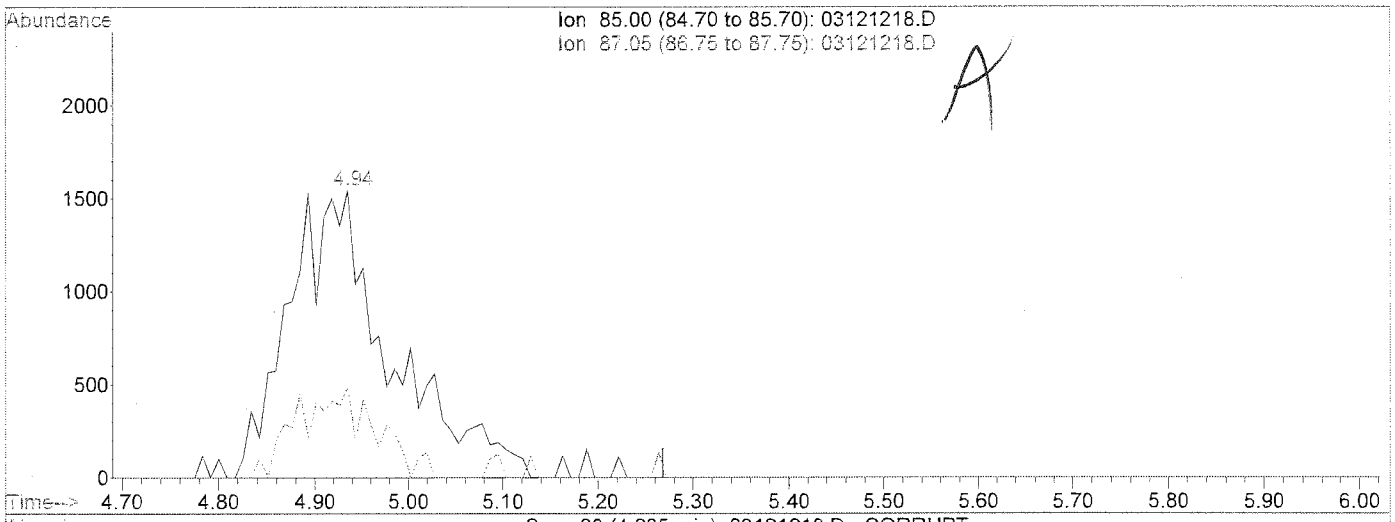
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	46.84
0.00	0.00	0.00
0.00	0.00	0.00

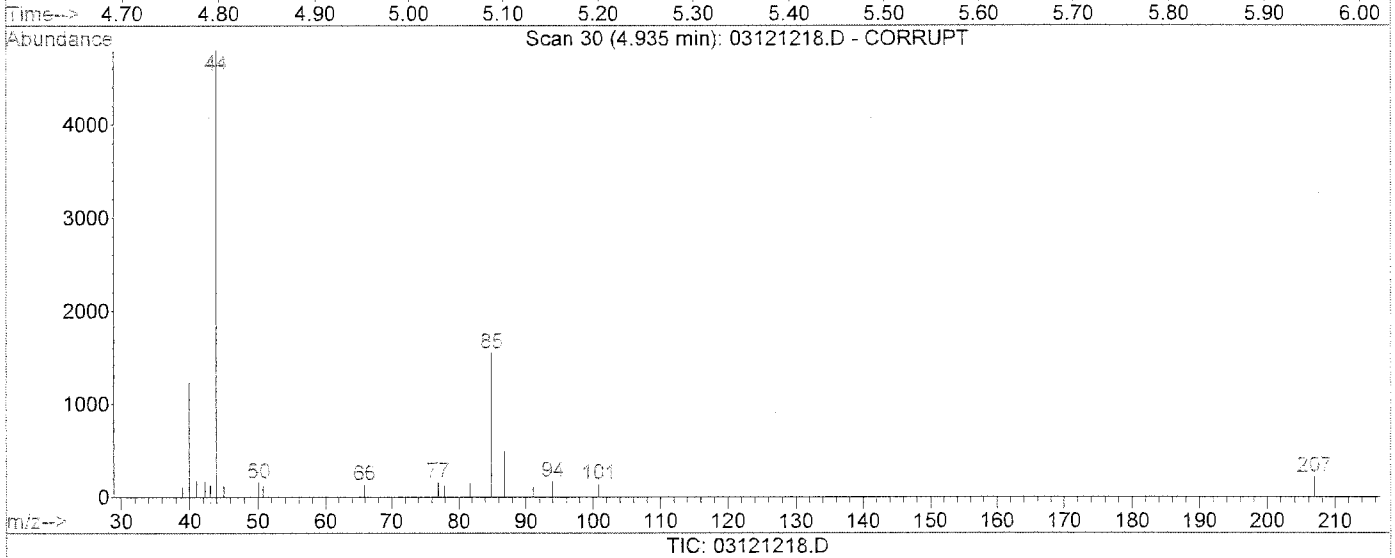
03121218.D 022812.M Tue Mar 13 08:56:34 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.58ug/L m

response 11482

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	13.77
0.00	0.00	0.00
0.00	0.00	0.00

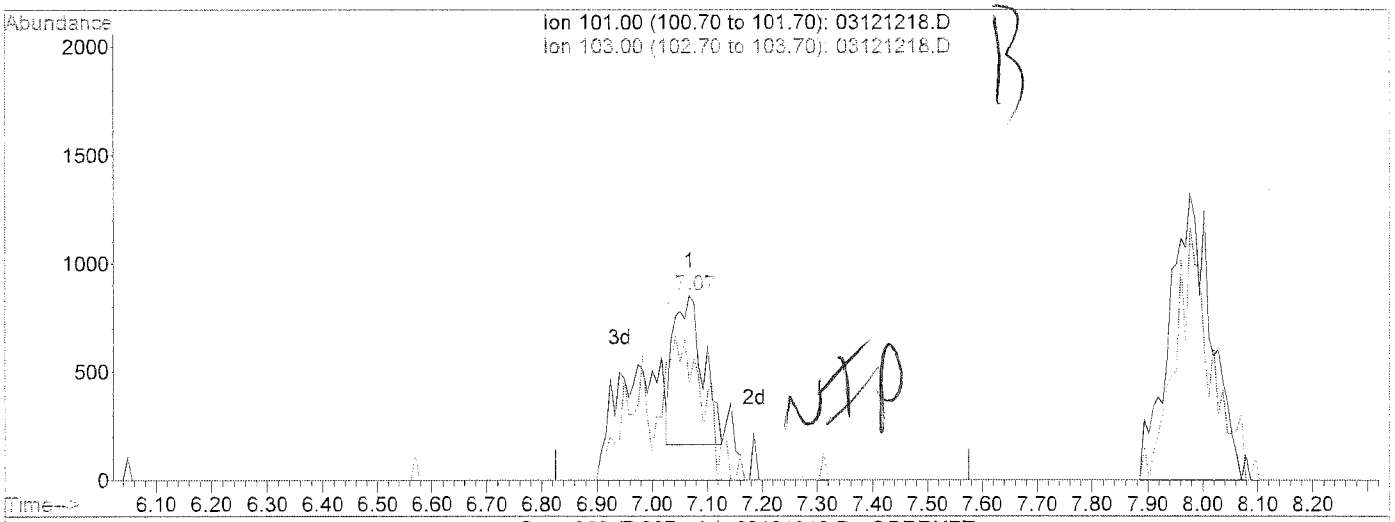
3/14/12

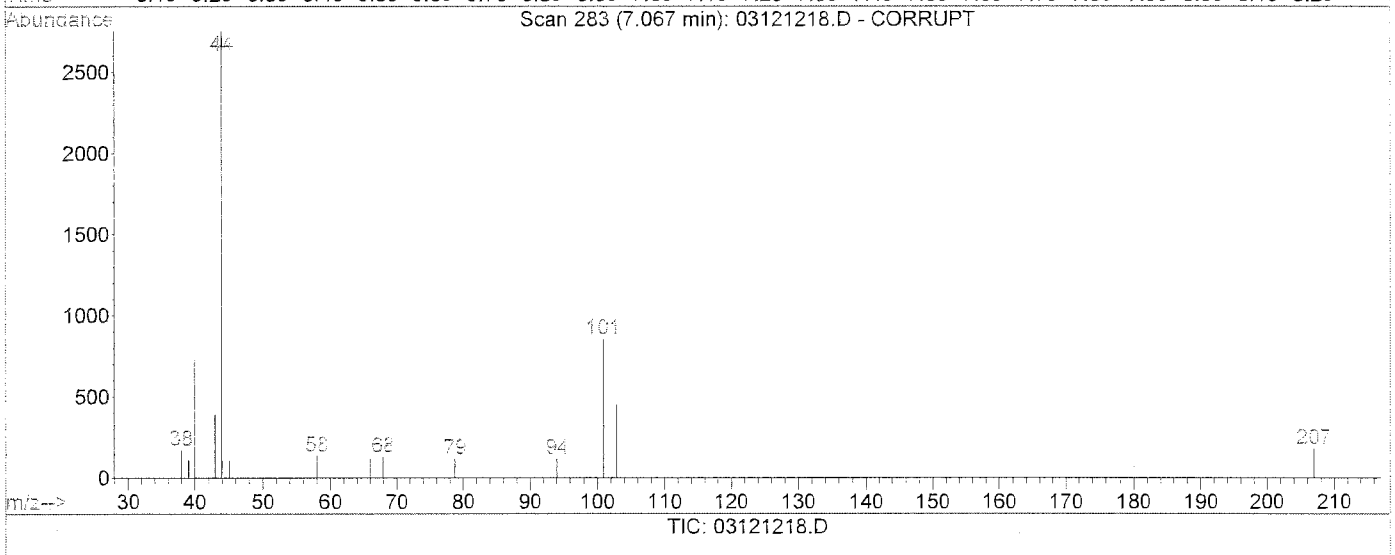
03121218.D 022812.M Tue Mar 13 08:56:38 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

3/14/12

7.07min 0.16ug/L

response 2572

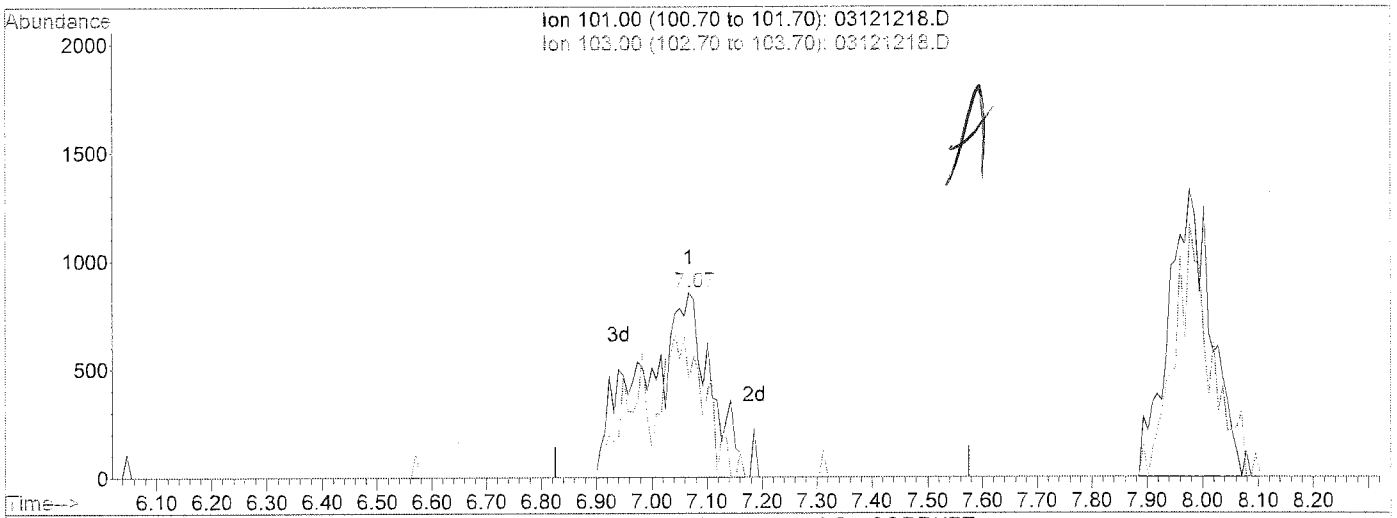
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	34.54#
0.00	0.00	0.00
0.00	0.00	0.00

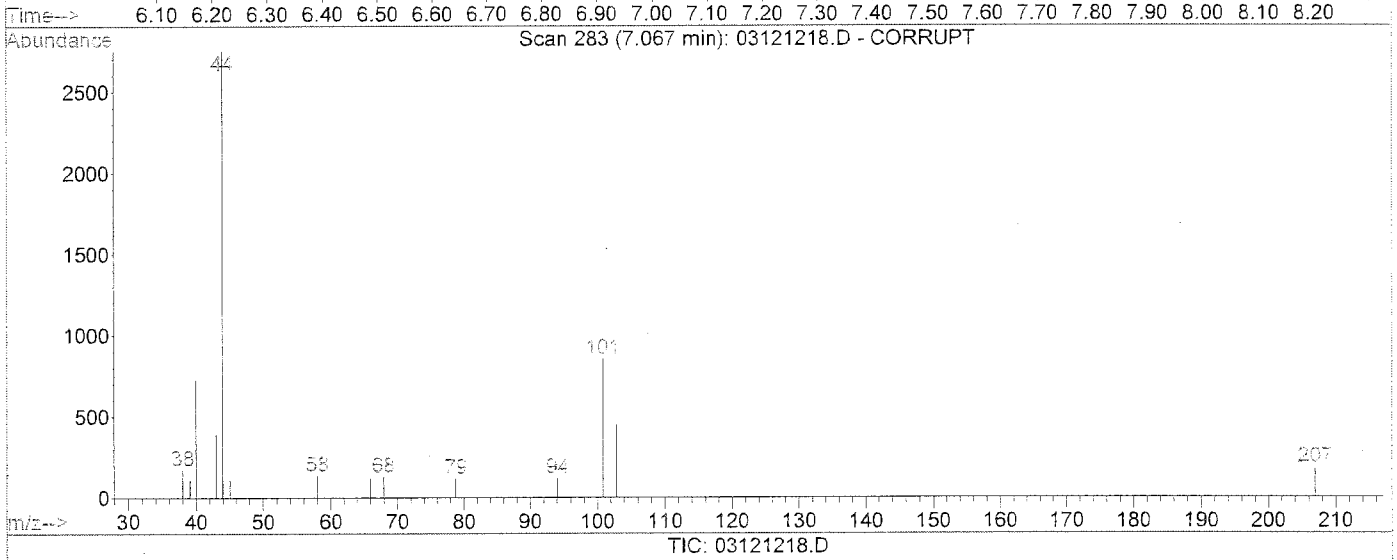
03121218.D 022812.M Tue Mar 13 08:56:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.43ug/L m

response 7132

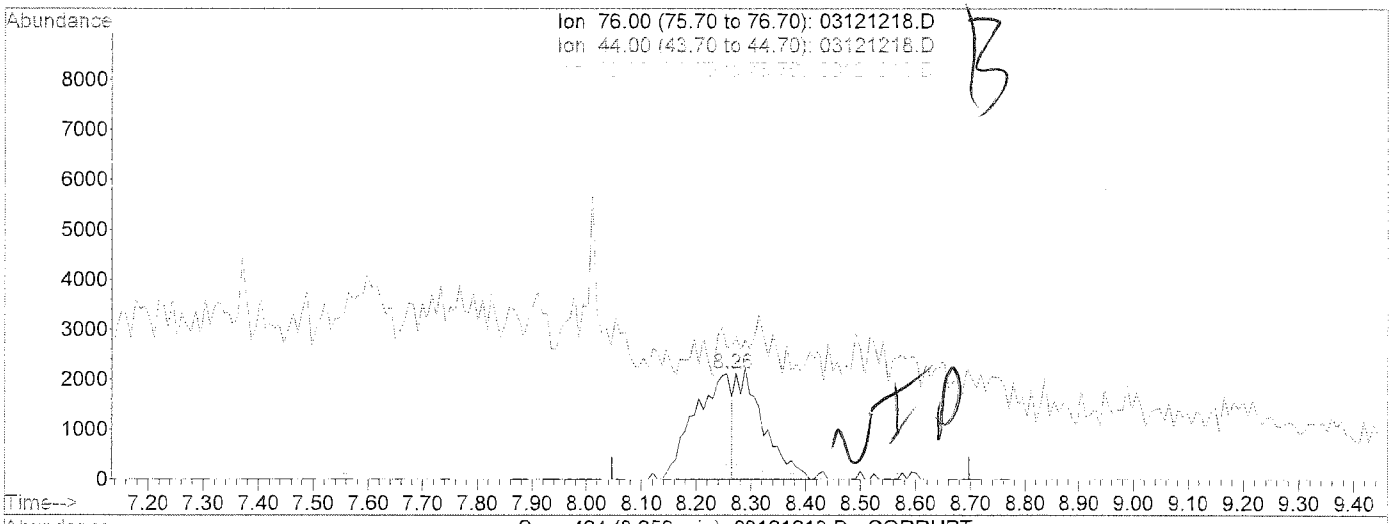
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	52.52
0.00	0.00	0.00
0.00	0.00	0.00

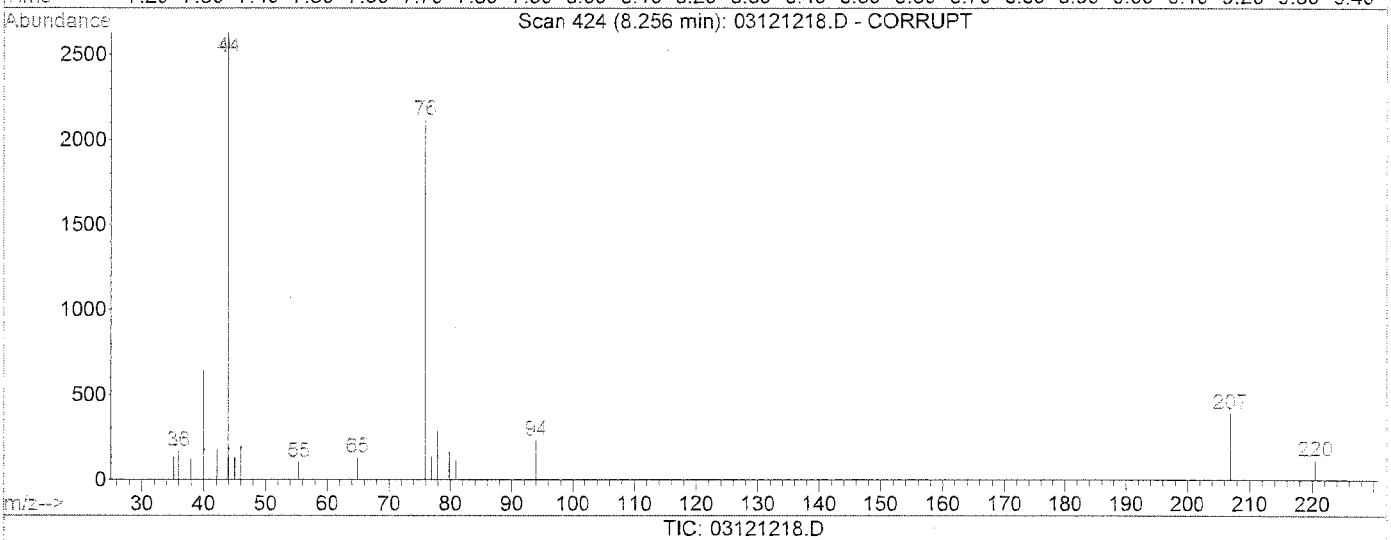
03121218.D 022812.M Tue Mar 13 08:56:55 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.26min 0.30ug/L

response 9698

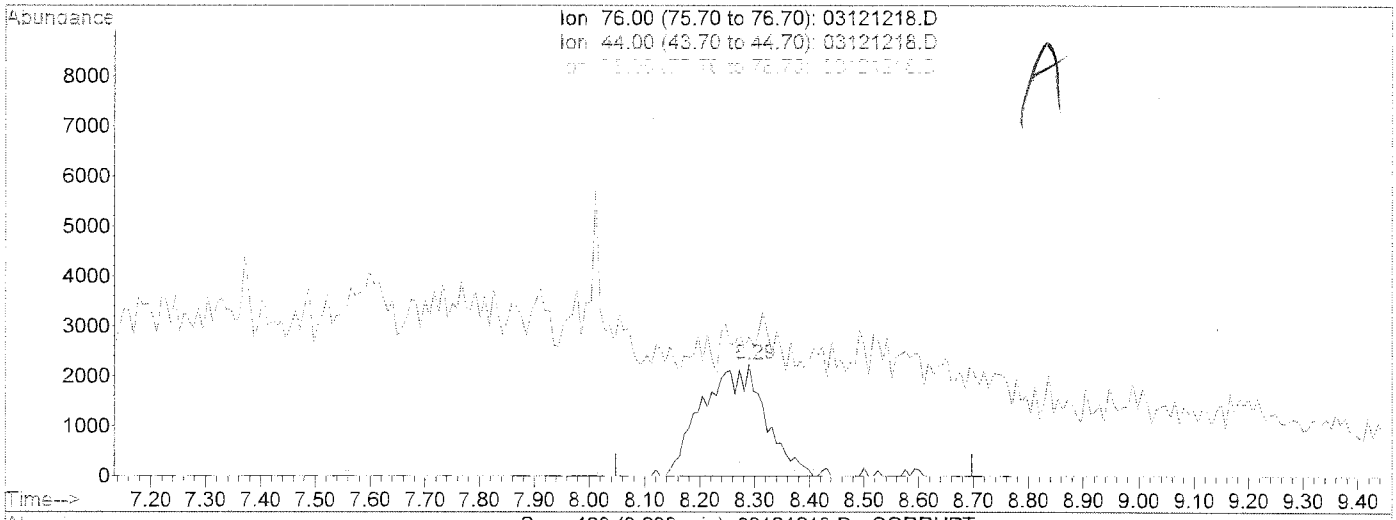
Ion	Exp%	Act%
76.00	100	100
44.00	18.70	16.64
78.00	4.20	4.05
0.00	0.00	0.00

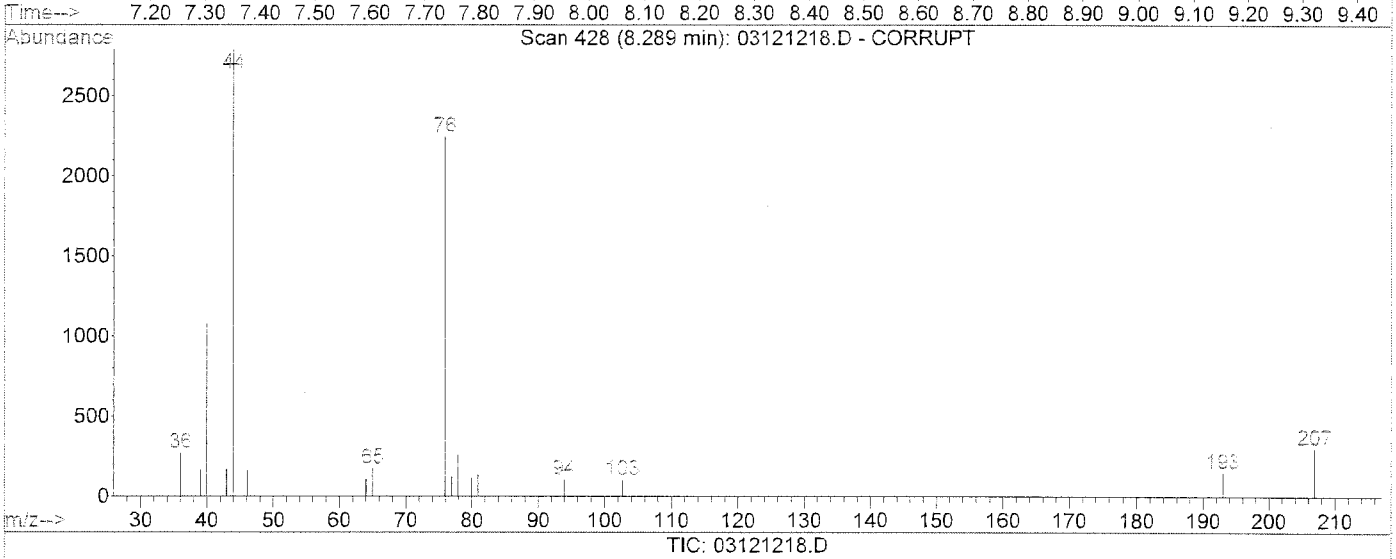
03121218.D 022812.M Tue Mar 13 08:57:04 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

✓3/14/12

(19) Carbon Disulfide (T)

8.29min 0.54ug/L m

response 17666

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	9.14#
78.00	4.20	2.22#
0.00	0.00	0.00

03121218.D 022812.M Tue Mar 13 08:57:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	66949	200.00 ug/L	0.02
4) Pentafluorobenzene	10.69	168	449787	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	704861	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	561546	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	258325	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	273468	27.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.96%	
50) Toluene-d8 (surr)	14.19	98	800855	25.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.76%	
64) 4-Bromofluorobenzene (surr	17.82	95	283955	24.16 ug/L	0.02
Spiked Amount 25.000			Recovery	= 96.64%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.94	85	11482m	0.58 ug/L	
6) Chloromethane	5.10	50	12448	0.58 ug/L	97
7) Vinyl Chloride	5.42	62	10266	0.60 ug/L	96
8) 1,3-Butadiene	5.53	54	6222	0.58 ug/L #	73
9) Bromomethane	5.97	94	8301	0.64 ug/L #	49
10) Chloroethane	6.19	64	6204	0.58 ug/L #	74
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	7132m	0.43 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	11193	0.57 ug/L #	95
16) 1,1-Dichloroethene	7.71	96	7102	0.58 ug/L	93
17) Methylene Chloride	7.87	84	9848	0.64 ug/L	94
18) Freon 113	7.98	101	7086	0.54 ug/L #	87
19) Carbon Disulfide	8.29	76	17666m	0.54 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	8259	0.57 ug/L	91
21) MTBE	8.86	73	9848	0.42 ug/L	98
22) 1,1-Dichloroethane	9.06	63	14091	0.53 ug/L	95
23) Vinyl Acetate	9.21	43	8491	0.39 ug/L #	93
24) n-Hexane	9.55	86	1263	0.51 ug/L #	82
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.60	45	23379	0.48 ug/L #	84
27) cis-1,2-Dichloroethene	9.80	96	6342	0.46 ug/L	92
28) Bromochloromethane	10.00	128	2651	0.46 ug/L	95
29) Chloroform	10.05	83	12905	0.51 ug/L	97
30) 2,2-Dichloropropane	10.17	77	7644	0.58 ug/L #	35
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	12957	0.40 ug/L	98
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	7547	0.46 ug/L	96
35) 1,1,1-Trichloroethane	11.01	97	9419	0.47 ug/L	94
36) (TAME) tert-Amyl methyl et	11.71	73	7532	0.35 ug/L	92
38) 1,1-Dichloropropene	11.25	75	6890	0.40 ug/L	96
39) Carbon Tetrachloride	11.48	117	8199	0.46 ug/L	97
40) Benzene	11.54	78	21338	0.47 ug/L	97

(#) = qualifier out of range (m) = manual integration
03121218.D 022812.M Tue Mar 13 08:58:02 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

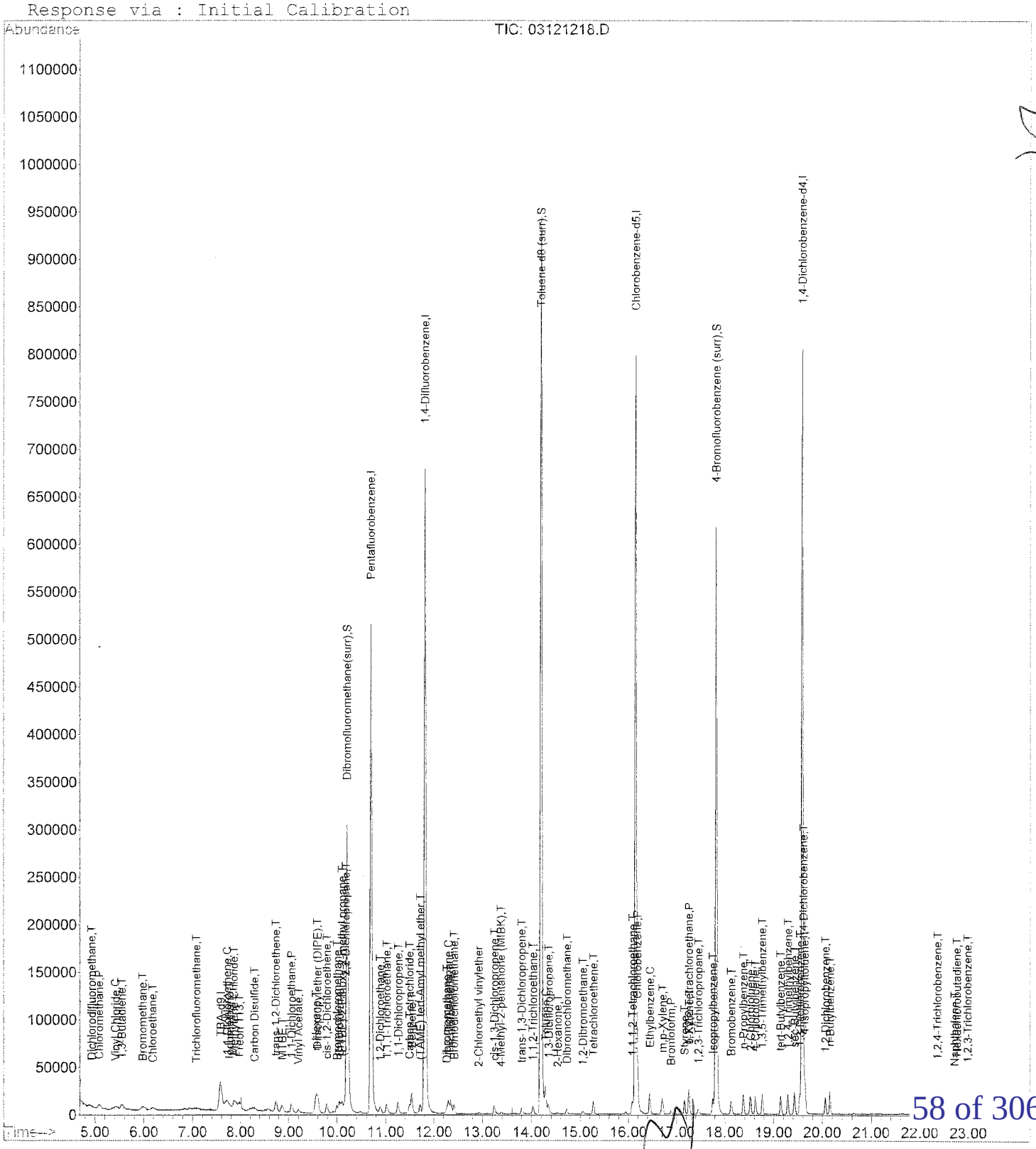
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	2884	0.43 ug/L		94
42)	1,2-Dichloropropane	12.31	63	5974	0.48 ug/L		98
43)	Trichloroethene	12.35	95	6441	0.48 ug/L		93
44)	Bromodichloromethane	12.42	83	7796	0.44 ug/L		96
45)	2-Chloroethyl vinylether	12.93	63	917	0.24 ug/L		99
46)	cis-1,3-Dichloropropene	13.24	75	6589	0.39 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	2204	0.30 ug/L		98
48)	trans-1,3-Dichloropropene	13.81	75	4365	0.31 ug/L	#	87
49)	1,1,2-Trichloroethane	14.04	97	3522	0.43 ug/L		95
51)	Toluene	14.29	92	12964	0.46 ug/L		96
53)	1,3-Dichloropropane	14.34	76	6024	0.45 ug/L		96
54)	2-Hexanone	14.53	43	1598	0.34 ug/L	#	83
55)	Dibromochloromethane	14.73	129	3896	0.40 ug/L		97
56)	1,2-Dibromoethane	15.06	107	3051	0.38 ug/L		99
57)	Tetrachloroethene	15.28	164	3976	0.42 ug/L		92
58)	1,1,1,2-Tetrachloroethane	16.08	131	4887	0.47 ug/L	#	63
59)	Chlorobenzene	16.19	112	15208	0.51 ug/L		96
60)	Ethylbenzene	16.45	91	20022	0.41 ug/L		97
61)	m,p-Xylene	16.71	106	6922	0.36 ug/L		98
62)	Styrene	17.16	104	9083	0.31 ug/L		96
63)	o-Xylene	17.26	106	7032	0.37 ug/L		92
66)	Bromoform	16.89	173	2078	0.40 ug/L		91
67)	1,1,2,2-Tetrachloroethane	17.25	83	3766	0.52 ug/L	#	85
68)	1,2,3-Trichloropropane	17.45	110	821	0.40 ug/L	#	85
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.	d	
70)	Isopropylbenzene	17.76	105	13985	0.35 ug/L		97
71)	Bromobenzene	18.12	156	4575	0.43 ug/L		88
72)	n-Propylbenzene	18.37	91	20377	0.40 ug/L		99
73)	2-Chlorotoluene	18.52	91	16078	0.48 ug/L	#	87
74)	4-Chlorotoluene	18.62	91	14269	0.42 ug/L		98
75)	1,3,5-Trimethylbenzene	18.76	105	15780	0.42 ug/L		94
76)	tert-Butylbenzene	19.14	119	9693	0.34 ug/L		95
77)	1,2,4-Trimethylbenzene	19.30	105	14689	0.38 ug/L		100
78)	sec-Butylbenzene	19.43	105	19925	0.44 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	9324	0.46 ug/L		91
80)	1,4-Dichlorobenzene	19.62	146	9764	0.48 ug/L	#	77
81)	4-Isopropyltoluene	19.65	119	17175	0.46 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	7685	0.43 ug/L		98
83)	n-Butylbenzene	20.16	91	14817	0.42 ug/L		92
84)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.	d	
85)	1,2,4-Trichlorobenzene	22.36	180	4456	0.33 ug/L	#	97
86)	Naphthalene	22.71	128	3760	0.22 ug/L		98
87)	Hexachlorobutadiene	22.77	225	3636	0.57 ug/L		97
88)	1,2,3-Trichlorobenzene	23.00	180	3074	0.29 ug/L		86

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

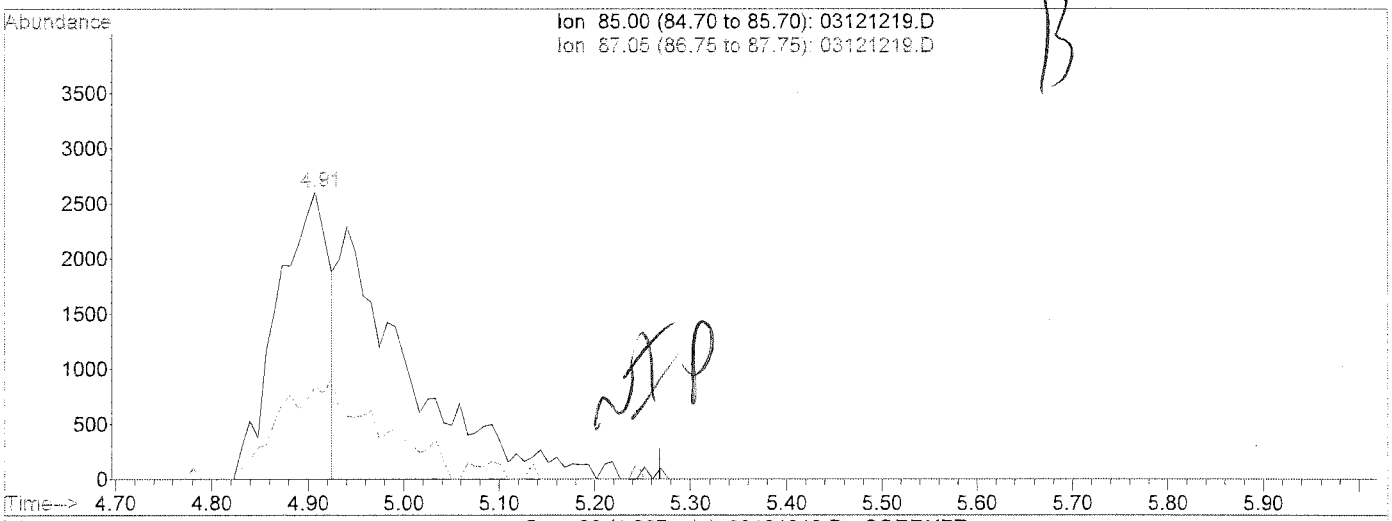
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

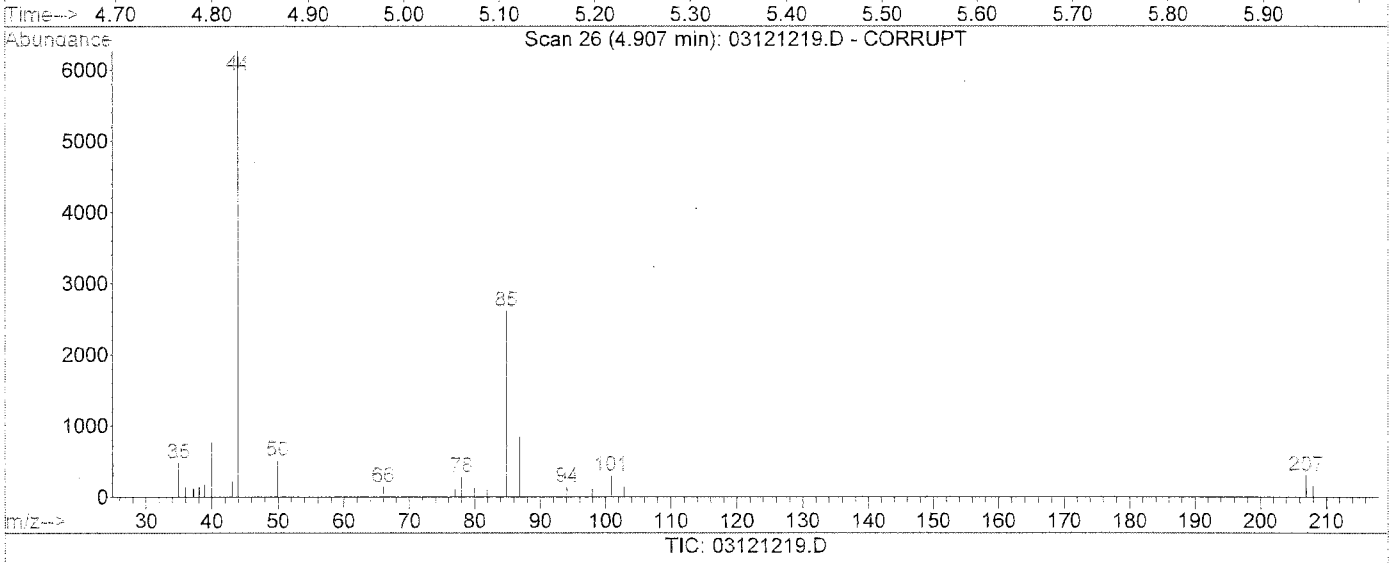


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 0.49ug/L

response 9600

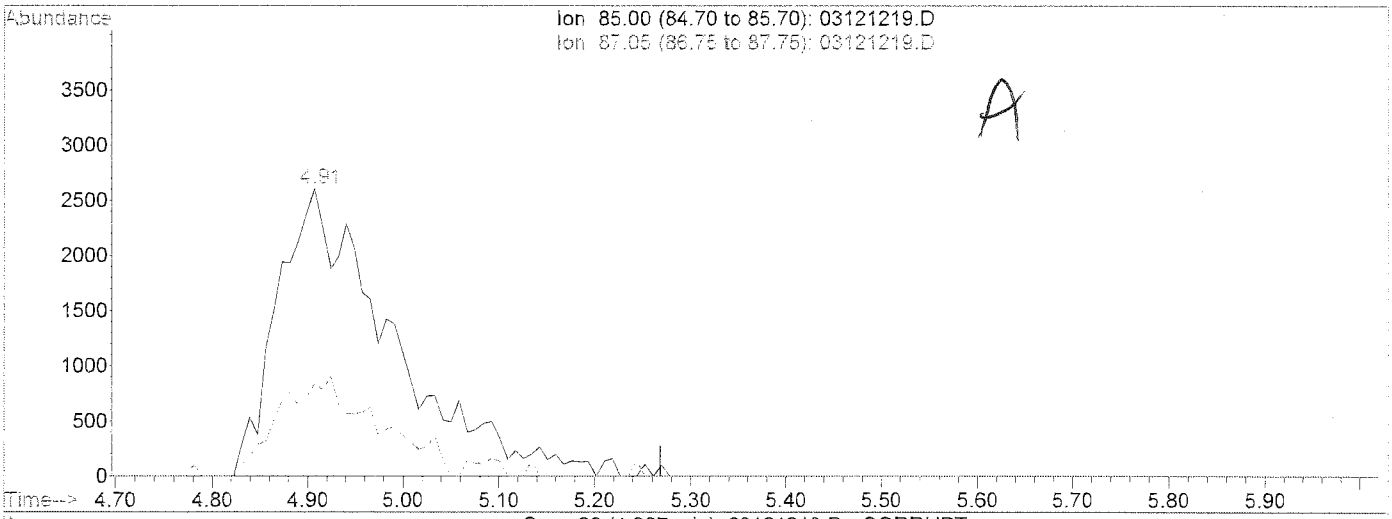
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	26.61
0.00	0.00	0.00
0.00	0.00	0.00

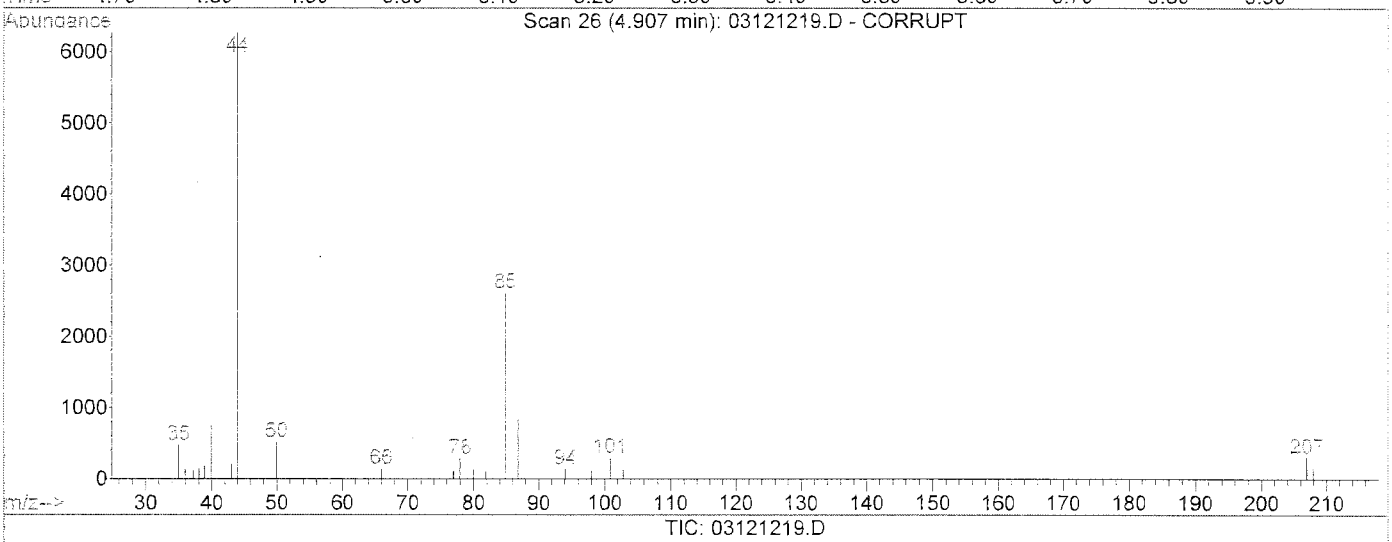
03121219.D 022812.M Tue Mar 13 09:10:51 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 1.09ug/L m

response 21413

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	11.93#
0.00	0.00	0.00
0.00	0.00	0.00

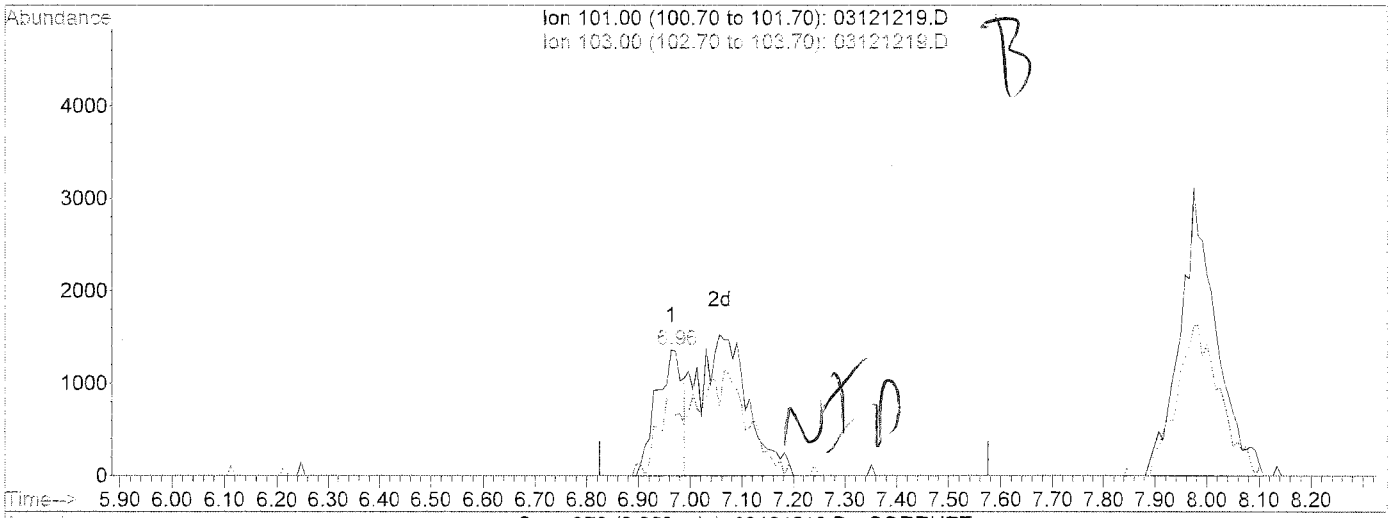
3/14/12

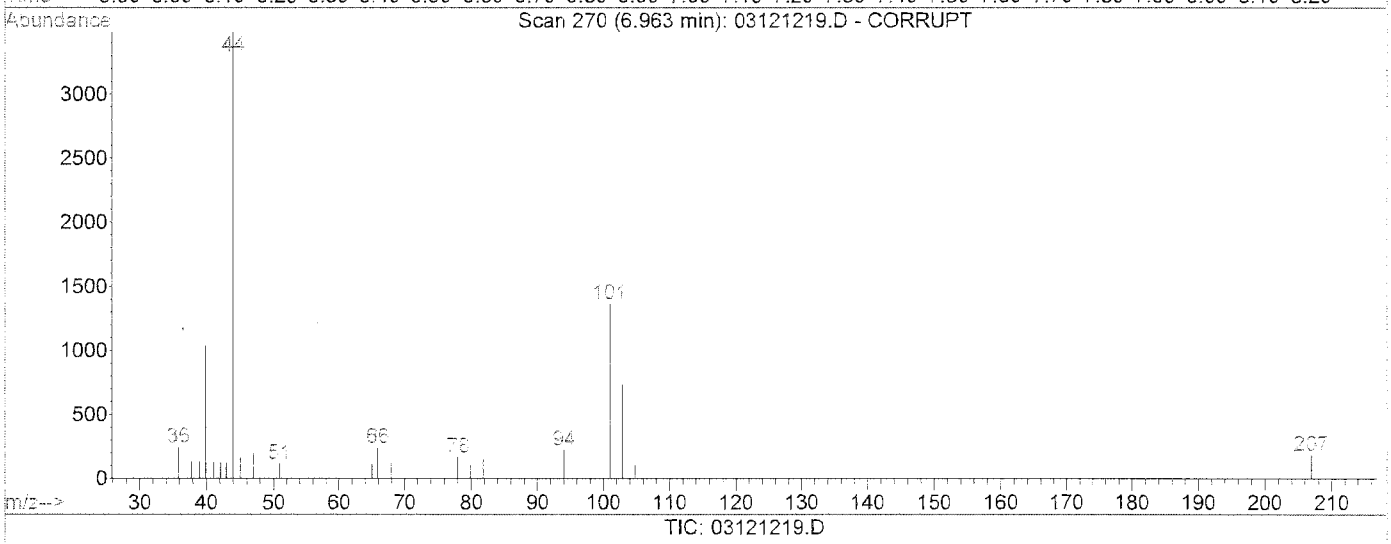
03121219.D 022812.M Tue Mar 13 09:11:19 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

6.96min 0.29ug/L

response 4757

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	53.34
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

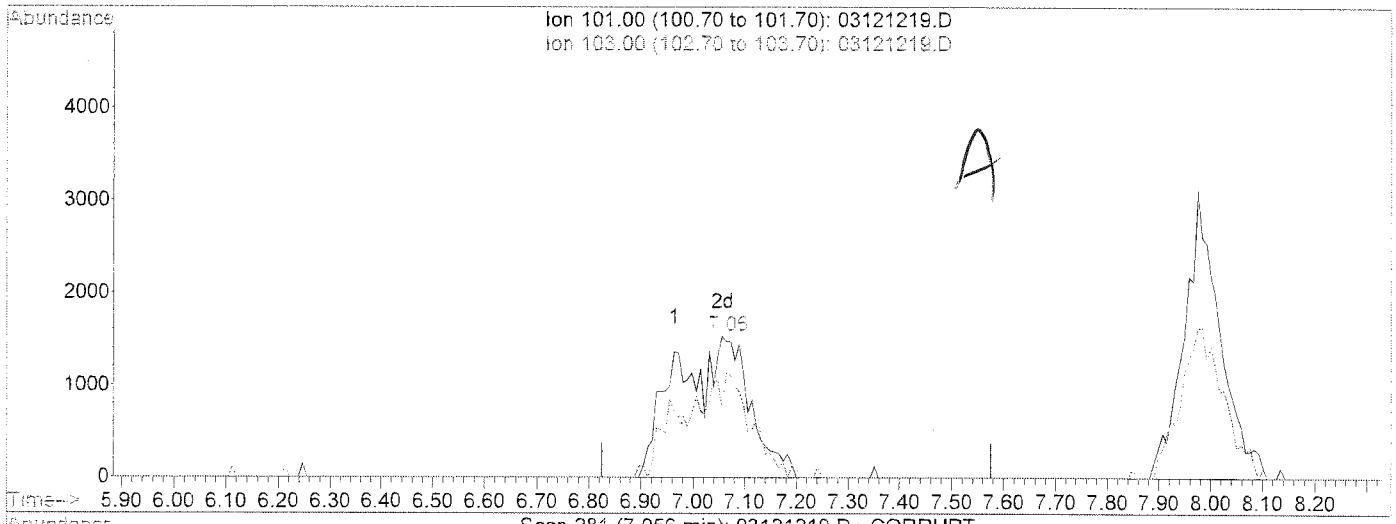
3/14/12

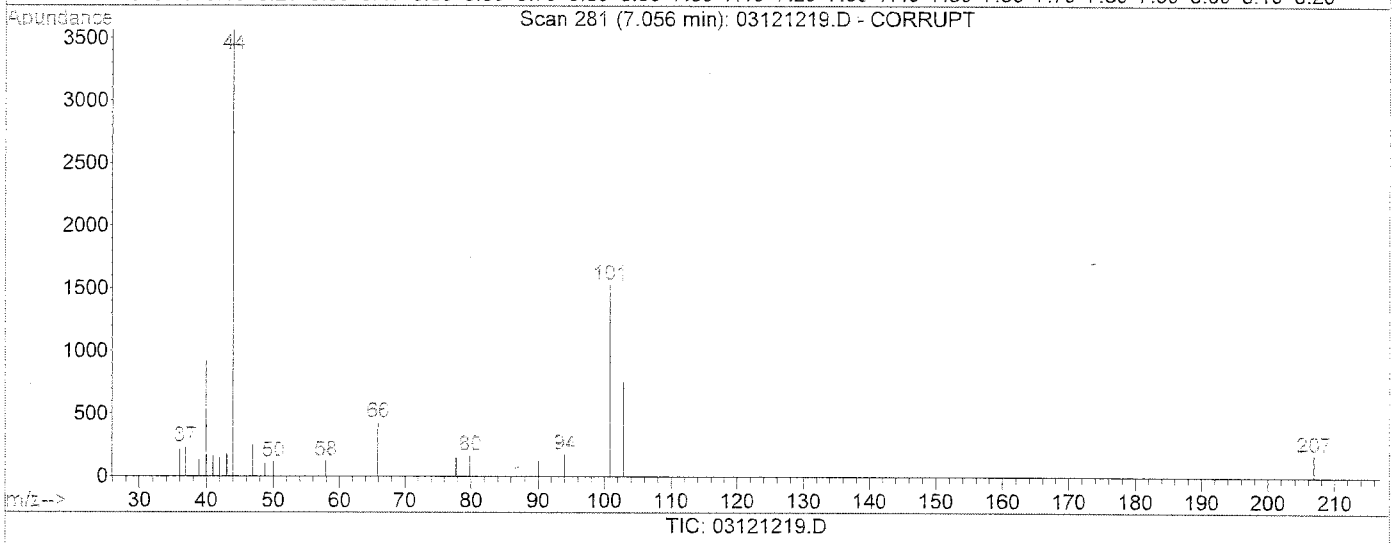
03121219.D 022812.M Tue Mar 13 09:11:28 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

3/14/12

7.06min 0.90ug/L m

response 14897

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	49.18#
0.00	0.00	0.00
0.00	0.00	0.00

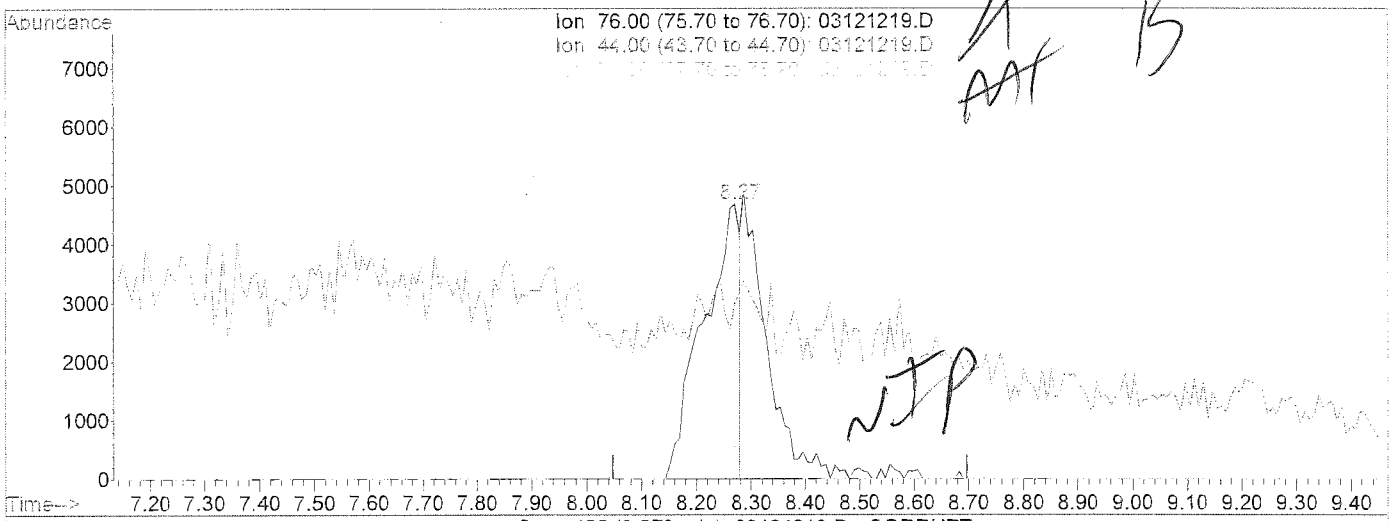
03121219.D 022812.M Tue Mar 13 09:11:35 2012

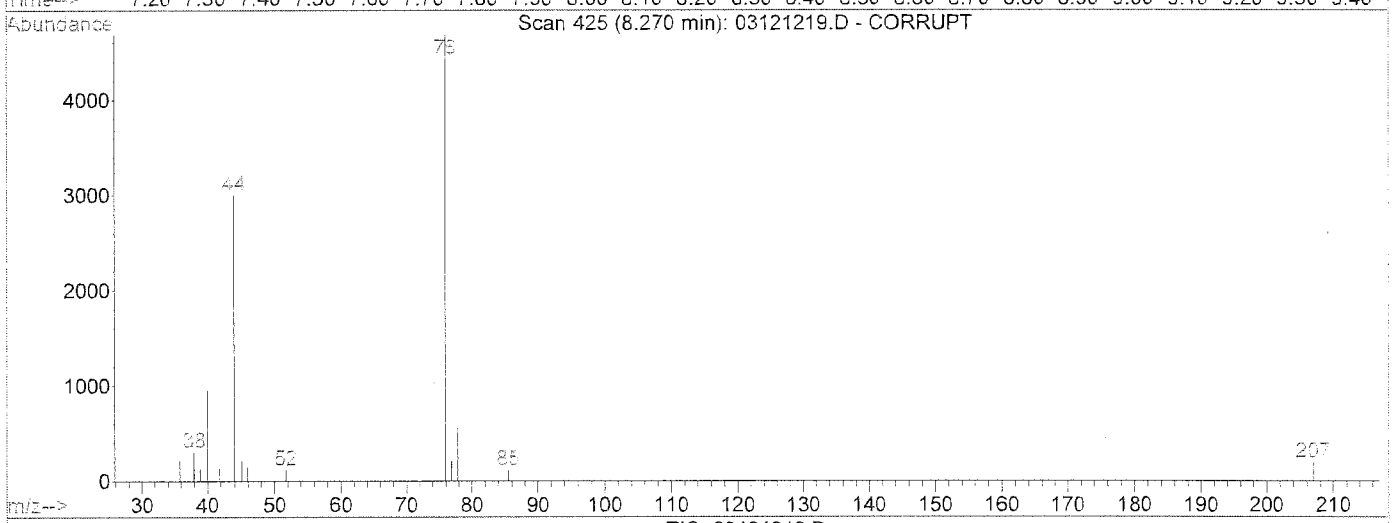
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

3/14/12
AAT B





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.27min 0.66ug/L

response 21340

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	20.11
78.00	4.20	4.33
0.00	0.00	0.00

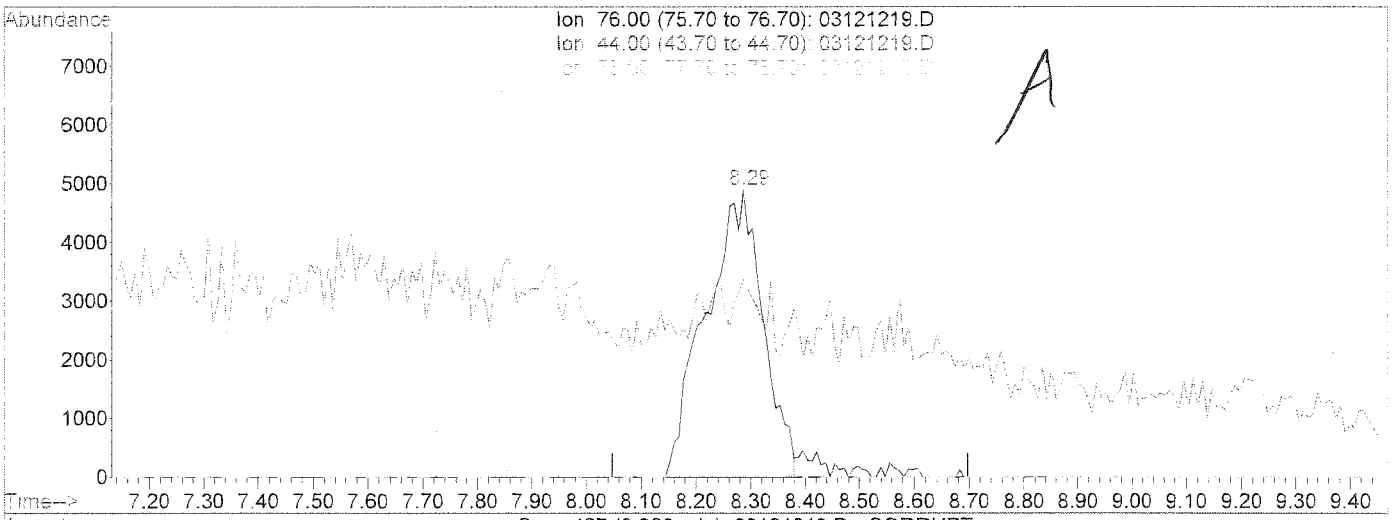
3/14/12

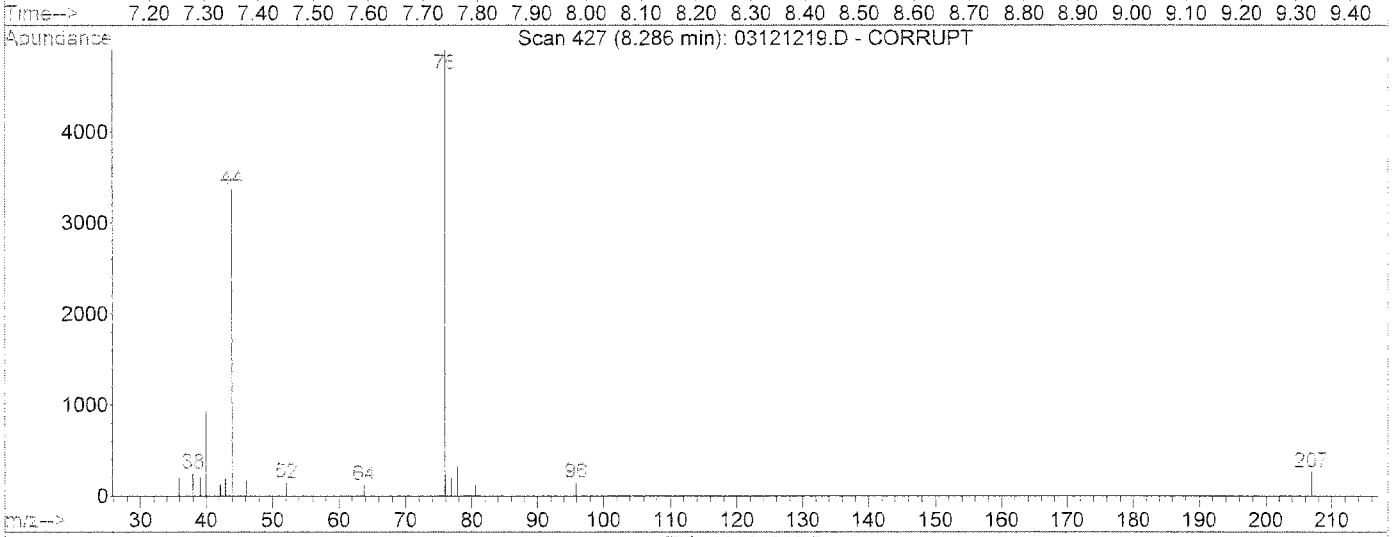
03121219.D 022812.M Tue Mar 13 09:11:43 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

3/14/12

8.29min 1.09ug/L m

response 35519

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	12.08#
78.00	4.20	2.60#
0.00	0.00	0.00

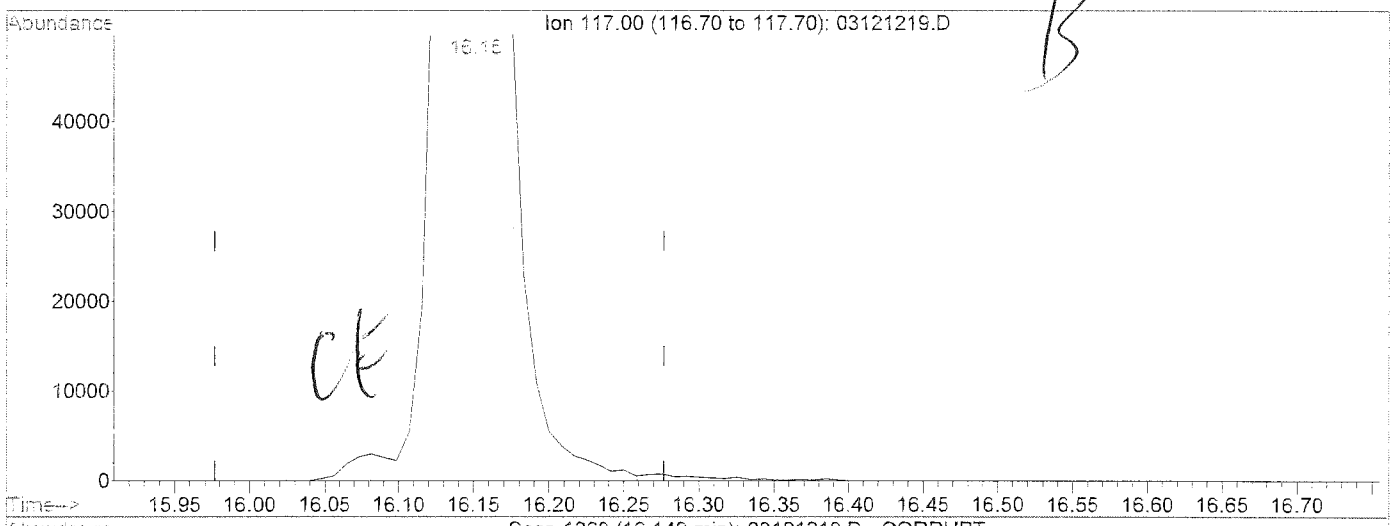
03121219.D 022812.M Tue Mar 13 09:11:52 2012

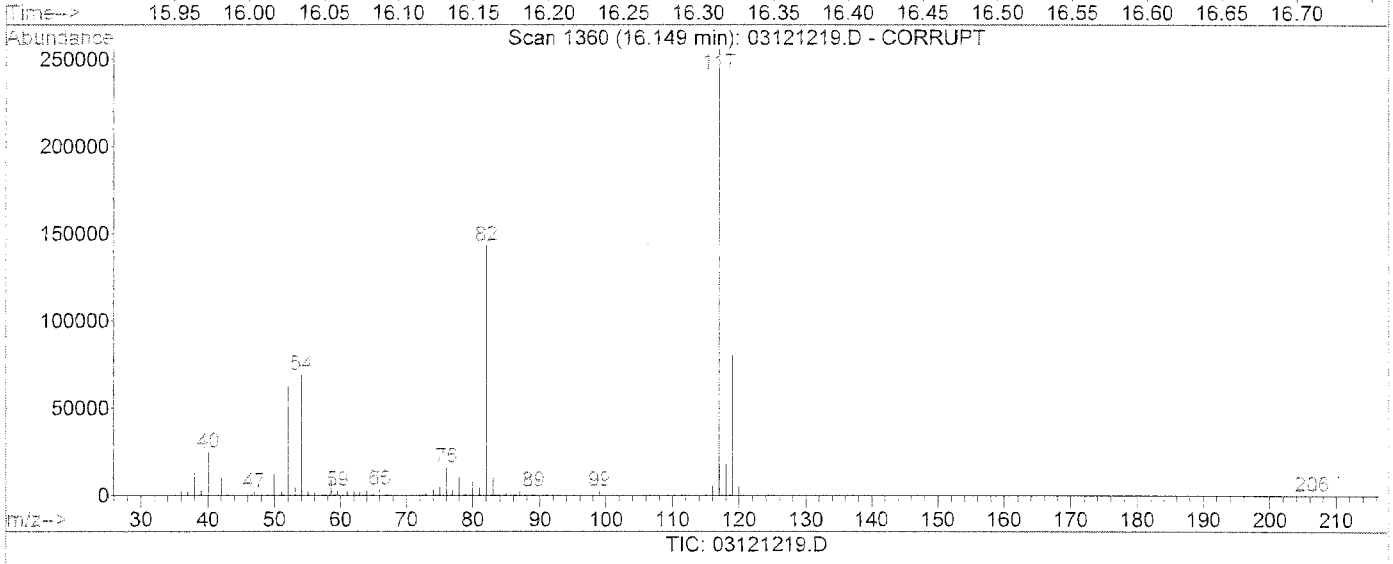
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





TIC: 03121219.D

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

response 589571

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

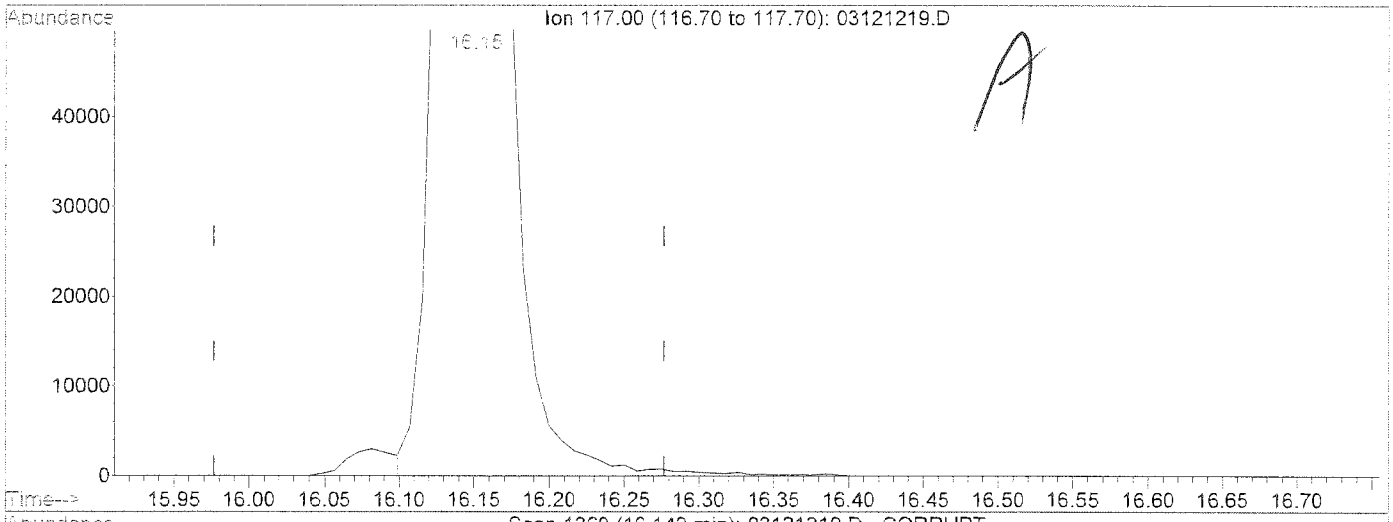
✓3/14/12

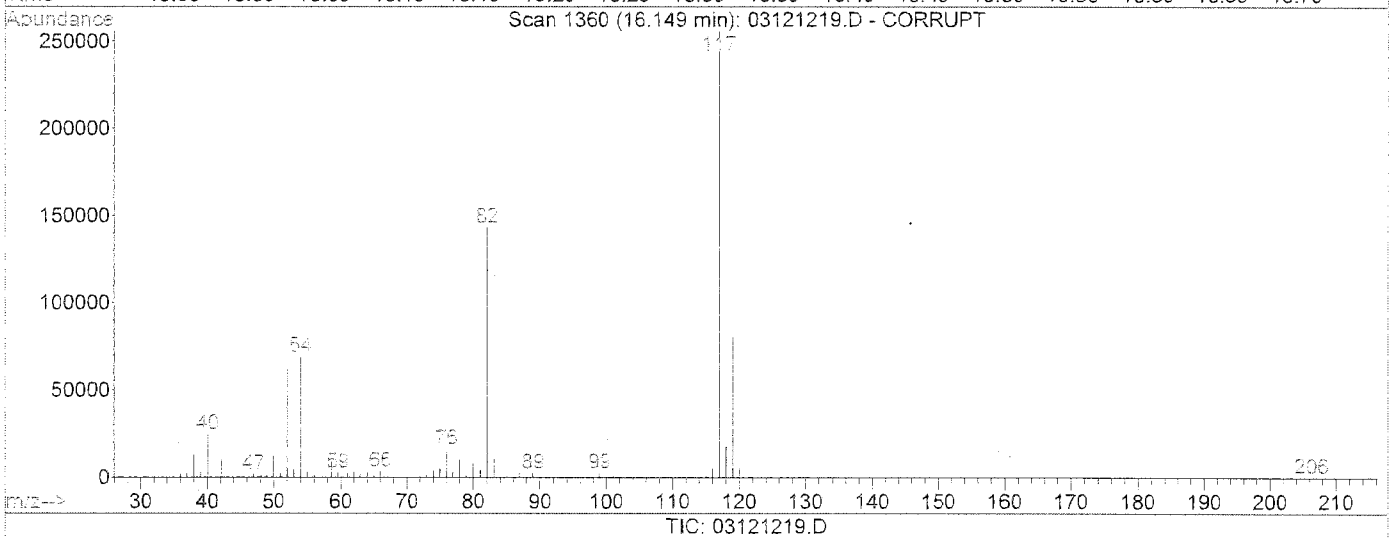
03121219.D 022812.M Tue Mar 13 09:12:15 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 582915

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

03121219.D 022812.M Tue Mar 13 09:12:20 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	72754	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	448673	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	716558	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	582915m	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	266849	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	279339	27.90 ug/L	0.01
Spiked Amount 25.000			Recovery	= 111.60%	
50) Toluene-d8 (surr)	14.19	98	794617	24.59 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.36%	
64) 4-Bromofluorobenzene (surr	17.83	95	293573	24.06 ug/L	0.02
Spiked Amount 25.000			Recovery	= 96.24%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.91	85	21413m	1.09 ug/L	
6) Chloromethane	5.09	50	25022	1.17 ug/L #	59
7) Vinyl Chloride	5.44	62	21516	1.26 ug/L	100
8) 1,3-Butadiene	5.56	54	11270	1.05 ug/L	85
9) Bromomethane	5.99	94	16187	1.24 ug/L	93
10) Chloroethane	6.18	64	11509	1.09 ug/L #	71
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	14897m	0.90 ug/L	
13) Acetone	7.11	43	7816	2.21 ug/L #	86
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	20847	1.07 ug/L #	92
16) 1,1-Dichloroethene	7.71	96	13239	1.08 ug/L	95
17) Methylene Chloride	7.87	84	17454	1.14 ug/L	93
18) Freon 113	7.97	101	15093	1.16 ug/L	98
19) Carbon Disulfide	8.29	76	35519m	1.09 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	15419	1.07 ug/L	95
21) MTBE	8.86	73	21804	0.93 ug/L	92
22) 1,1-Dichloroethane	9.05	63	28971	1.10 ug/L	98
23) Vinyl Acetate	9.21	43	16328	0.76 ug/L	97
24) n-Hexane	9.56	86	2096	0.85 ug/L #	39
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.59	45	50411	1.03 ug/L	88
27) cis-1,2-Dichloroethene	9.79	96	13599	0.98 ug/L	99
28) Bromochloromethane	10.01	128	5486	0.96 ug/L	94
29) Chloroform	10.06	83	24901	0.99 ug/L	98
30) 2,2-Dichloropropane	10.16	77	14801	1.13 ug/L #	83
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	26126	0.81 ug/L	95
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	16208	0.99 ug/L	97
35) 1,1,1-Trichloroethane	11.02	97	19885	1.00 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	17302	0.80 ug/L	89
38) 1,1-Dichloropropene	11.25	75	14809	0.84 ug/L	96
39) Carbon Tetrachloride	11.49	117	16377	0.91 ug/L	97
40) Benzene	11.55	78	43200	0.94 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121219.D 022812.M Tue Mar 13 09:12:45 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

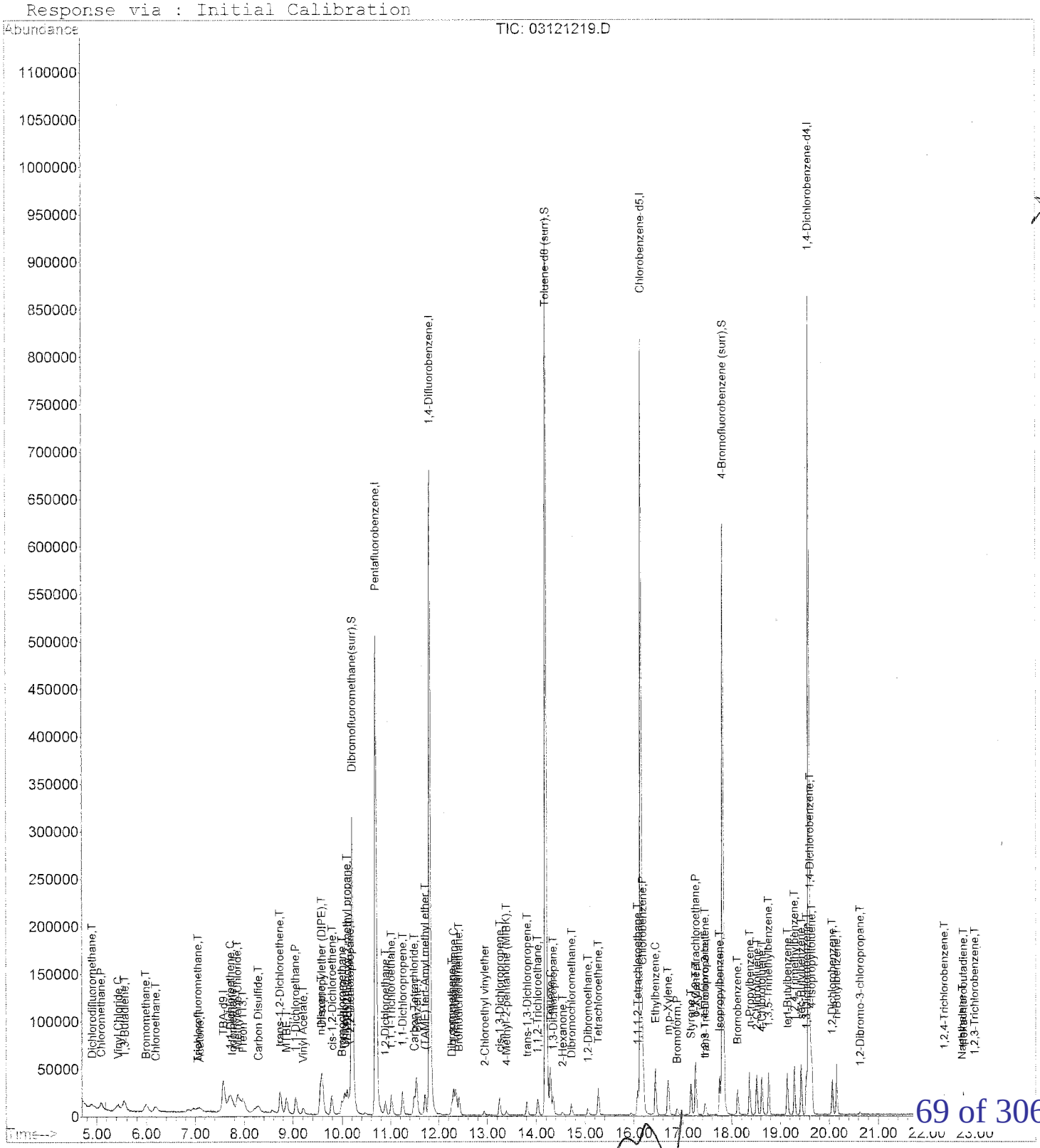
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	5874	0.87 ug/L		93
42)	1,2-Dichloropropane	12.31	63	11384	0.91 ug/L		94
43)	Trichloroethene	12.36	95	12243	0.89 ug/L		95
44)	Bromodichloromethane	12.42	83	16061	0.88 ug/L		95
45)	2-Chloroethyl vinylether	12.95	63	1878	0.47 ug/L		82
46)	cis-1,3-Dichloropropene	13.25	75	12069	0.70 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	5216	0.70 ug/L		96
48)	trans-1,3-Dichloropropene	13.81	75	9214	0.65 ug/L		92
49)	1,1,2-Trichloroethane	14.03	97	7074	0.86 ug/L		93
51)	Toluene	14.29	92	24904	0.87 ug/L		100
53)	1,3-Dichloropropane	14.35	76	11311	0.81 ug/L		98
54)	2-Hexanone	14.54	43	4222	0.86 ug/L	#	79
55)	Dibromochloromethane	14.73	129	8339	0.82 ug/L		96
56)	1,2-Dibromoethane	15.05	107	6938	0.84 ug/L		94
57)	Tetrachloroethene	15.28	164	8471	0.86 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.08	131	9237	0.85 ug/L		99
59)	Chlorobenzene	16.19	112	29393	0.95 ug/L	#	84
60)	Ethylbenzene	16.44	91	43261	0.85 ug/L		98
61)	m,p-Xylene	16.71	106	15936	0.79 ug/L		96
62)	Styrene	17.16	104	20132	0.66 ug/L		98
63)	o-Xylene	17.26	106	16883	0.86 ug/L		97
66)	Bromoform	16.88	173	4078	0.75 ug/L		95
67)	1,1,2,2-Tetrachloroethane	17.25	83	7870	1.05 ug/L	#	90
68)	1,2,3-Trichloropropane	17.45	110	1904	0.89 ug/L		90
69)	trans-1,4-Dichloro-2-buten	17.46	53	1973	0.79 ug/L		82
70)	Isopropylbenzene	17.76	105	33180	0.80 ug/L		99
71)	Bromobenzene	18.13	156	9105	0.83 ug/L		90
72)	n-Propylbenzene	18.37	91	45516	0.86 ug/L		100
73)	2-Chlorotoluene	18.52	91	29840	0.86 ug/L		98
74)	4-Chlorotoluene	18.62	91	30724	0.87 ug/L		100
75)	1,3,5-Trimethylbenzene	18.76	105	31941	0.83 ug/L		98
76)	tert-Butylbenzene	19.15	119	24066	0.82 ug/L		96
77)	1,2,4-Trimethylbenzene	19.29	105	32905	0.83 ug/L		99
78)	sec-Butylbenzene	19.43	105	41964	0.89 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	20175	0.97 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	20497	0.98 ug/L	#	87
81)	4-Isopropyltoluene	19.66	119	35059	0.91 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	15849	0.87 ug/L		97
83)	n-Butylbenzene	20.15	91	31338	0.85 ug/L		98
84)	1,2-Dibromo-3-chloropropan	20.63	75	951	0.79 ug/L		91
85)	1,2,4-Trichlorobenzene	22.37	180	8942	0.64 ug/L		98
86)	Naphthalene	22.72	128	9240	0.51 ug/L		99
87)	Hexachlorobutadiene	22.76	225	6178	0.94 ug/L		96
88)	1,2,3-Trichlorobenzene	22.99	180	6725	0.60 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

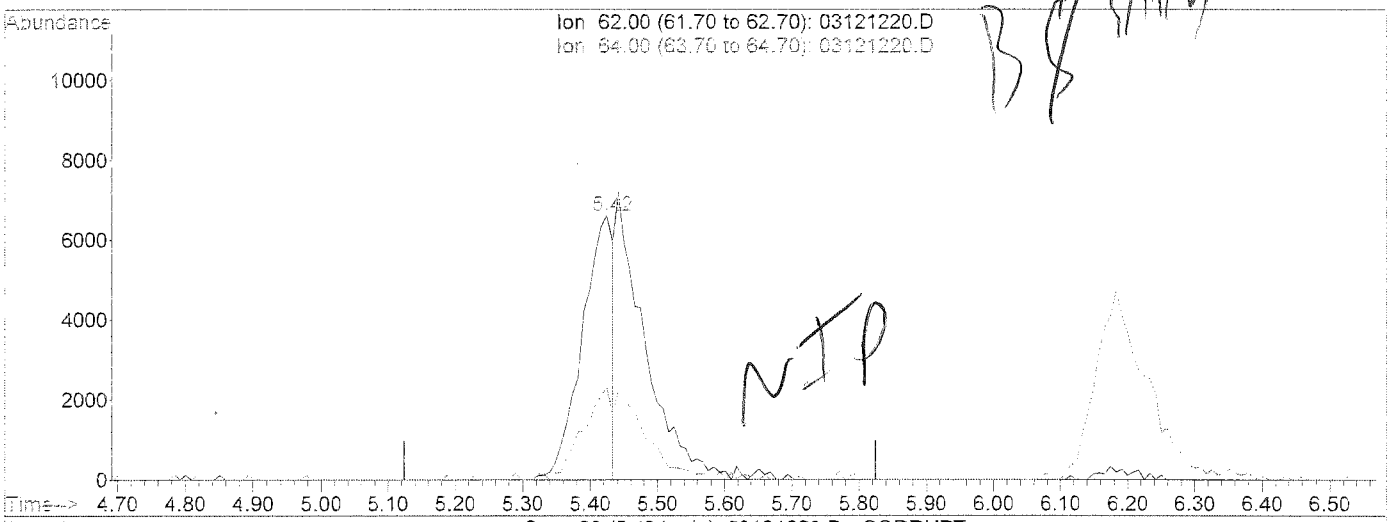
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration



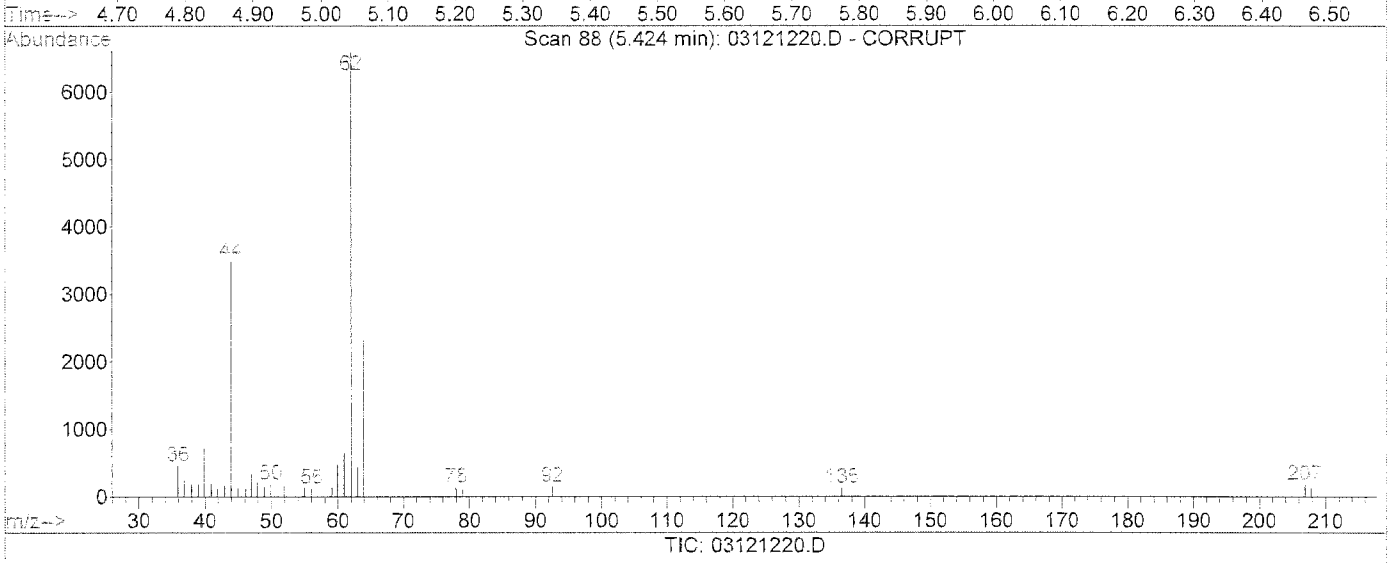
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration



NTP



TIC: 03121220.D

(7) Vinyl Chloride (C)

5.42min 1.19ug/L

response 20878

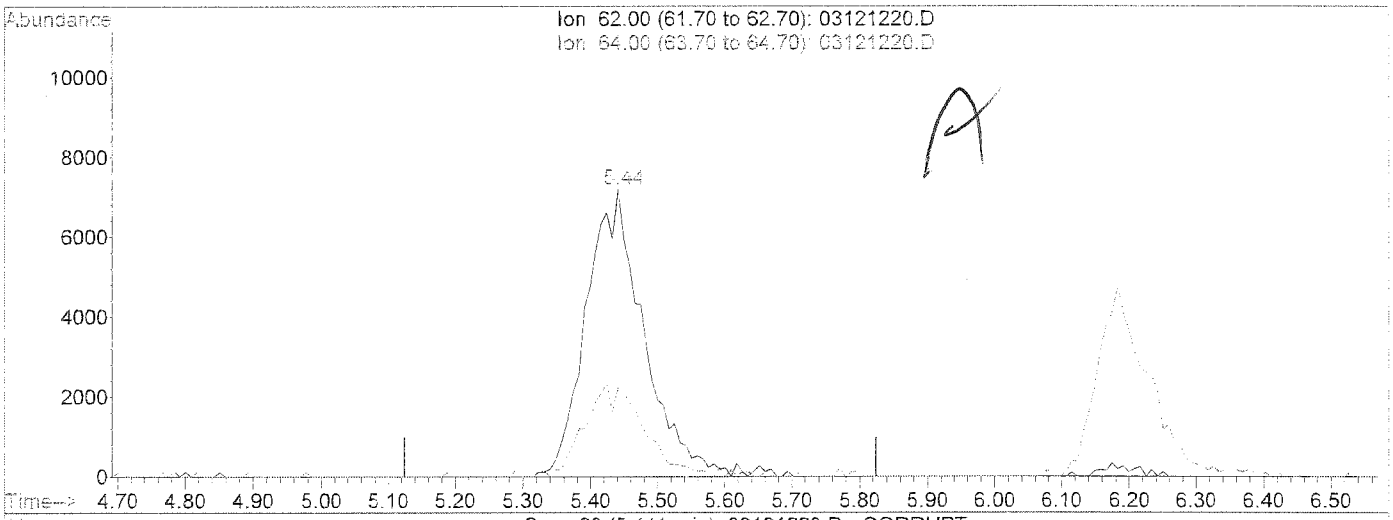
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	32.60
0.00	0.00	0.00
0.00	0.00	0.00

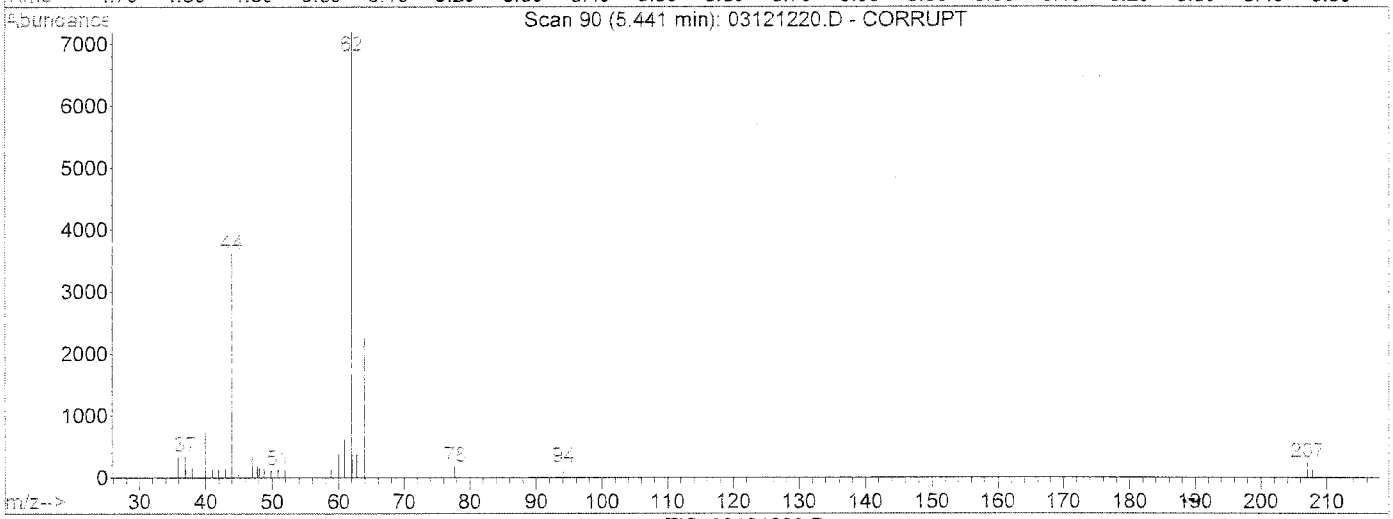
03121220.D 022812.M Tue Mar 13 09:13:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(7) Vinyl Chloride (C)

5.44min 2.42ug/L m

response 42603

Ion	Exp%	Act%
62.00	100	100
64.00	31.90	15.98#
0.00	0.00	0.00
0.00	0.00	0.00

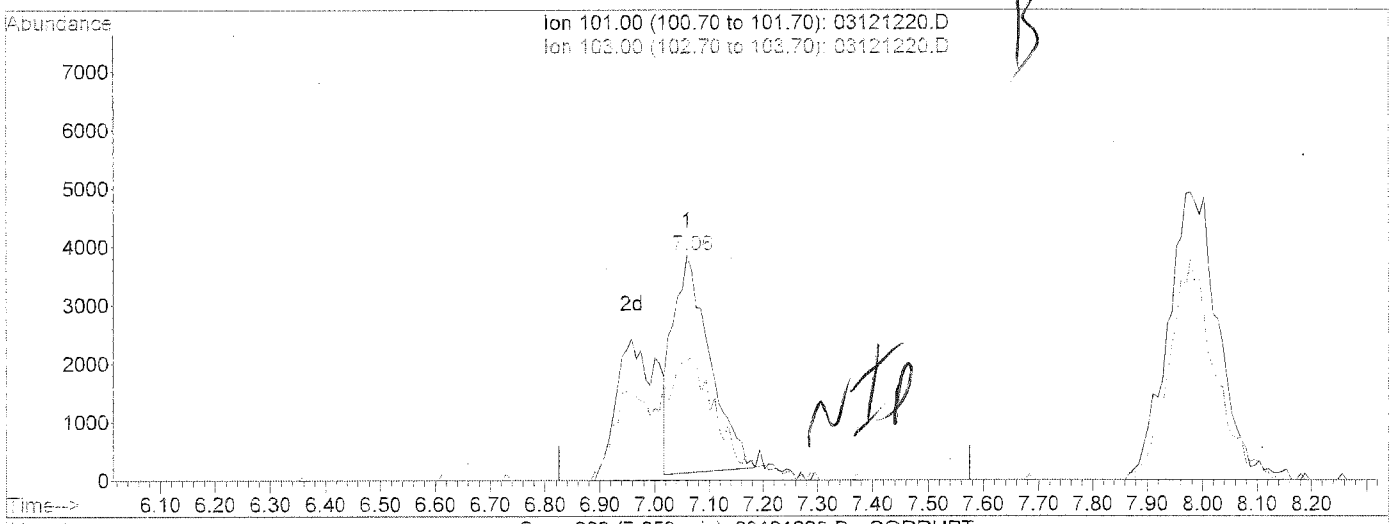
3/14/12

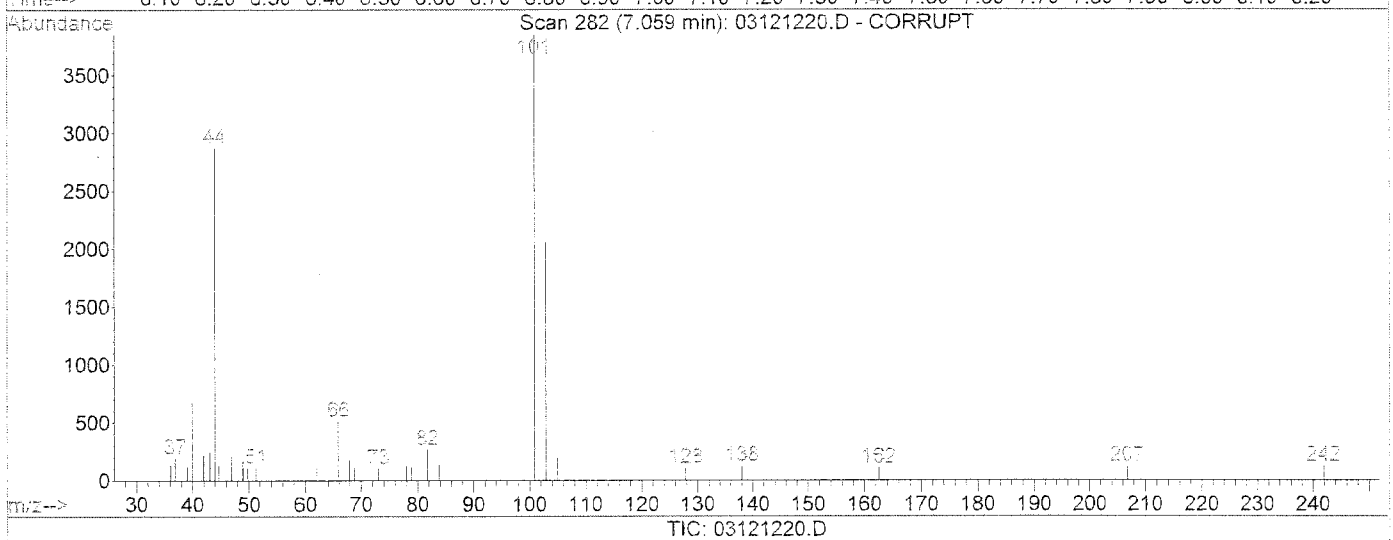
03121220.D 022812.M Tue Mar 13 09:13:09 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

7.06min 1.03ug/L

response 17554

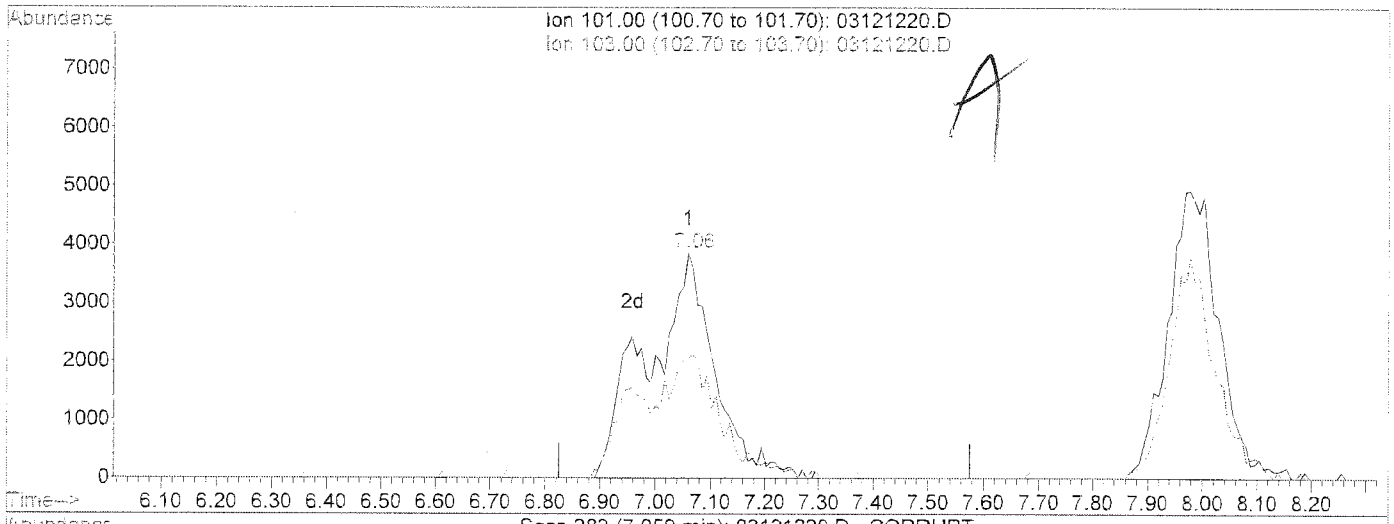
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	50.00
0.00	0.00	0.00
0.00	0.00	0.00

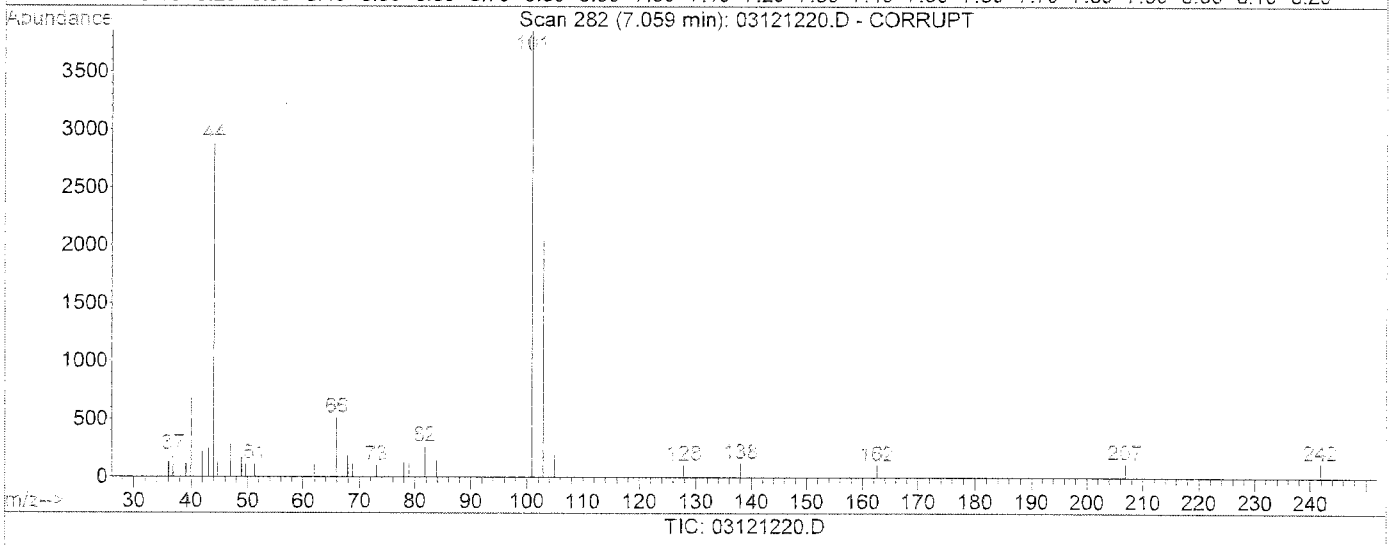
03121220.D 022812.M Tue Mar 13 09:13:17 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

✓3/14/12

(12) Trichlorofluoromethane (T)

7.06min 1.90ug/L m

response 32387

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	53.40
0.00	0.00	0.00
0.00	0.00	0.00

03121220.D 022812.M Tue Mar 13 09:13:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	73284	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463215	25.00 ug/L	0.02
37) 1,4-Difluorobenzene	11.82	114	748251	25.00 ug/L	0.02
52) Chlorobenzene-d5	16.14	117	591256	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	280472	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	285480	27.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 110.48%	
50) Toluene-d8 (surr)	14.20	98	825419	24.46 ug/L	0.02
Spiked Amount 25.000			Recovery	= 97.84%	
64) 4-Bromofluorobenzene (surr	17.82	95	306720	24.78 ug/L	0.02
Spiked Amount 25.000			Recovery	= 99.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.68	59	6904	9.57 ug/L #	93
5) Dichlorodifluoromethane	4.89	85	44634	2.20 ug/L	95
6) Chloromethane	5.10	50	49042	2.22 ug/L	96
7) Vinyl Chloride	5.44	62	42603m	2.42 ug/L	
8) 1,3-Butadiene	5.53	54	25257	2.27 ug/L	98
9) Bromomethane	5.97	94	30776	2.29 ug/L	96
10) Chloroethane	6.18	64	24677	2.26 ug/L	96
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	32387m	1.90 ug/L	
13) Acetone	7.10	43	10992	3.02 ug/L	92
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	42797	2.13 ug/L #	92
16) 1,1-Dichloroethene	7.70	96	26400	2.08 ug/L	97
17) Methylene Chloride	7.87	84	34592	2.18 ug/L	94
18) Freon 113	7.98	101	31500	2.34 ug/L #	84
19) Carbon Disulfide	8.27	76	74087	2.21 ug/L #	65
20) trans-1,2-Dichloroethene	8.74	96	29846	2.01 ug/L	97
21) MTBE	8.86	73	43611	1.80 ug/L	96
22) 1,1-Dichloroethane	9.06	63	58392	2.15 ug/L	99
23) Vinyl Acetate	9.21	43	35371	1.59 ug/L	98
24) n-Hexane	9.56	86	5443	2.15 ug/L	94
25) 2-Butanone (MEK)	9.60	72	1928	2.57 ug/L #	89
26) Diisopropylether (DIPE)	9.60	45	107601	2.13 ug/L	93
27) cis-1,2-Dichloroethene	9.79	96	27566	1.92 ug/L	96
28) Bromochloromethane	9.99	128	11223	1.91 ug/L	90
29) Chloroform	10.05	83	51115	1.98 ug/L	98
30) 2,2-Dichloropropane	10.16	77	31201	2.30 ug/L	87
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	61470	1.86 ug/L	99
33) Tetrahydrofuran	10.47	72	1201	1.84 ug/L #	92
34) 1,2-Dichloroethane	10.89	62	32111	1.91 ug/L	96
35) 1,1,1-Trichloroethane	11.02	97	39359	1.92 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	38967	1.75 ug/L	94
38) 1,1-Dichloropropene	11.25	75	32257	1.76 ug/L	99
39) Carbon Tetrachloride	11.49	117	35654	1.90 ug/L	98
40) Benzene	11.54	78	90359	1.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121220.D 022812.M Tue Mar 13 09:13:55 2012

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

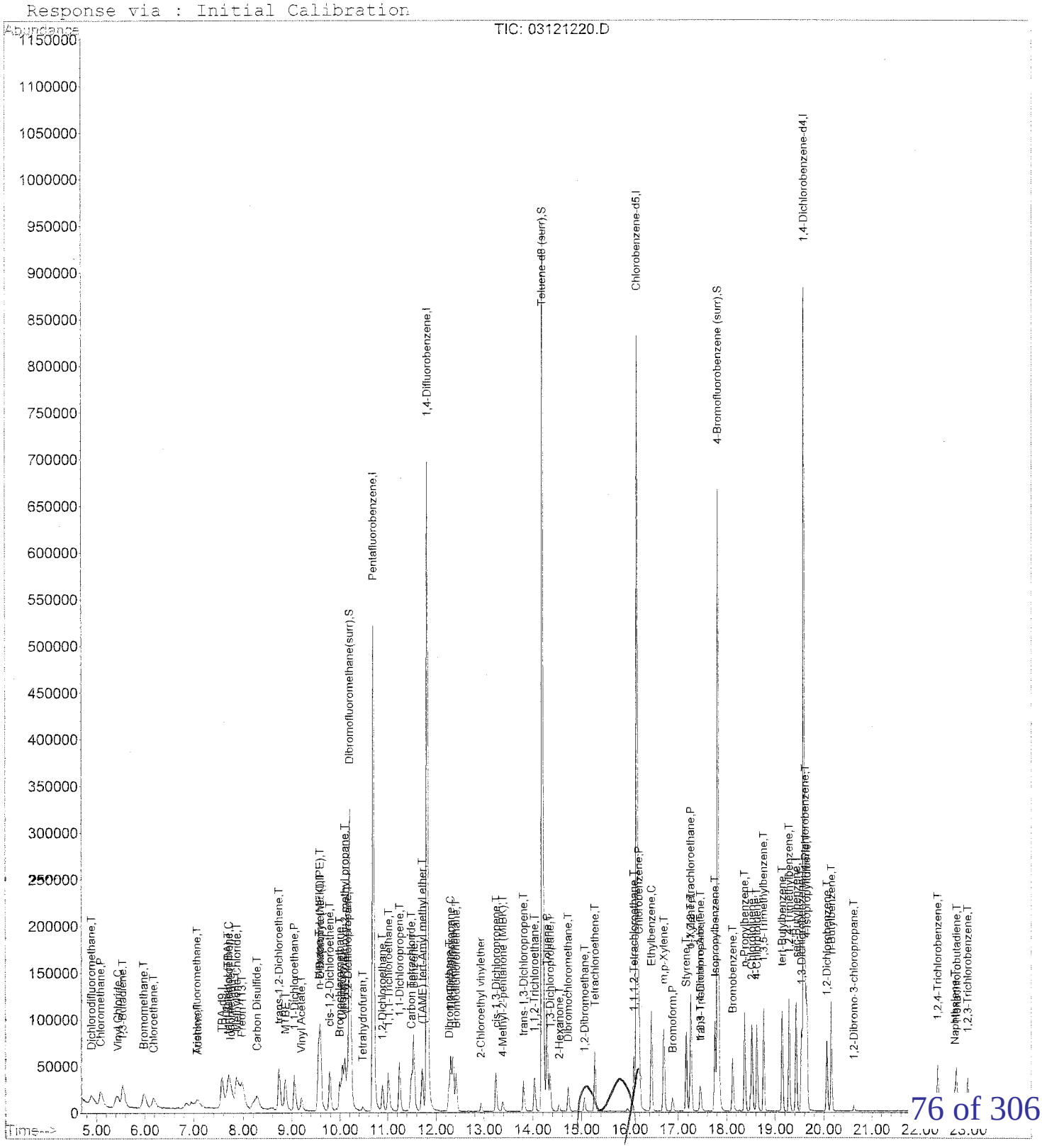
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	12797	1.81 ug/L		94
42)	1,2-Dichloropropane	12.31	63	25473	1.95 ug/L		96
43)	Trichloroethene	12.36	95	26577	1.86 ug/L		96
44)	Bromodichloromethane	12.43	83	33330	1.75 ug/L	#	97
45)	2-Chloroethyl vinylether	12.93	63	4247	1.03 ug/L		92
46)	cis-1,3-Dichloropropene	13.25	75	28087	1.55 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	11797	1.52 ug/L		94
48)	trans-1,3-Dichloropropene	13.81	75	22365	1.50 ug/L		96
49)	1,1,2-Trichloroethane	14.03	97	15824	1.84 ug/L		94
51)	Toluene	14.29	92	52633	1.77 ug/L		96
53)	1,3-Dichloropropane	14.35	76	26016	1.84 ug/L		96
54)	2-Hexanone	14.53	43	8624	1.72 ug/L	#	86
55)	Dibromochloromethane	14.73	129	18478	1.79 ug/L		94
56)	1,2-Dibromoethane	15.07	107	13631	1.63 ug/L		97
57)	Tetrachloroethene	15.28	164	18208	1.82 ug/L		99
58)	1,1,1,2-Tetrachloroethane	16.09	131	18704	1.70 ug/L		98
59)	Chlorobenzene	16.19	112	60684	1.94 ug/L		91
60)	Ethylbenzene	16.45	91	92262	1.79 ug/L		100
61)	m,p-Xylene	16.71	106	36201	1.78 ug/L		98
62)	Styrene	17.16	104	50675	1.64 ug/L		99
63)	o-Xylene	17.26	106	37361	1.87 ug/L		98
66)	Bromoform	16.89	173	8990	1.58 ug/L		96
67)	1,1,2,2-Tetrachloroethane	17.26	83	15876	2.02 ug/L		96
68)	1,2,3-Trichloropropane	17.46	110	4139	1.85 ug/L		94
69)	trans-1,4-Dichloro-2-buten	17.47	53	4535	1.73 ug/L		88
70)	Isopropylbenzene	17.76	105	80097	1.83 ug/L		98
71)	Bromobenzene	18.12	156	19895	1.72 ug/L		96
72)	n-Propylbenzene	18.37	91	103781	1.85 ug/L		99
73)	2-Chlorotoluene	18.51	91	69000	1.90 ug/L		100
74)	4-Chlorotoluene	18.62	91	70875	1.92 ug/L		98
75)	1,3,5-Trimethylbenzene	18.77	105	75709	1.87 ug/L		98
76)	tert-Butylbenzene	19.14	119	56518	1.83 ug/L		99
77)	1,2,4-Trimethylbenzene	19.29	105	76586	1.83 ug/L		97
78)	sec-Butylbenzene	19.43	105	95626	1.93 ug/L		98
79)	1,3-Dichlorobenzene	19.54	146	43036	1.97 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	43207	1.97 ug/L		96
81)	4-Isopropyltoluene	19.66	119	78136	1.93 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	34046	1.77 ug/L		98
83)	n-Butylbenzene	20.16	91	74103	1.92 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.63	75	1790	1.42 ug/L	#	87
85)	1,2,4-Trichlorobenzene	22.36	180	20855	1.41 ug/L		96
86)	Naphthalene	22.72	128	22332	1.18 ug/L		98
87)	Hexachlorobutadiene	22.76	225	12273	1.78 ug/L		96
88)	1,2,3-Trichlorobenzene	22.99	180	15807	1.35 ug/L	#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

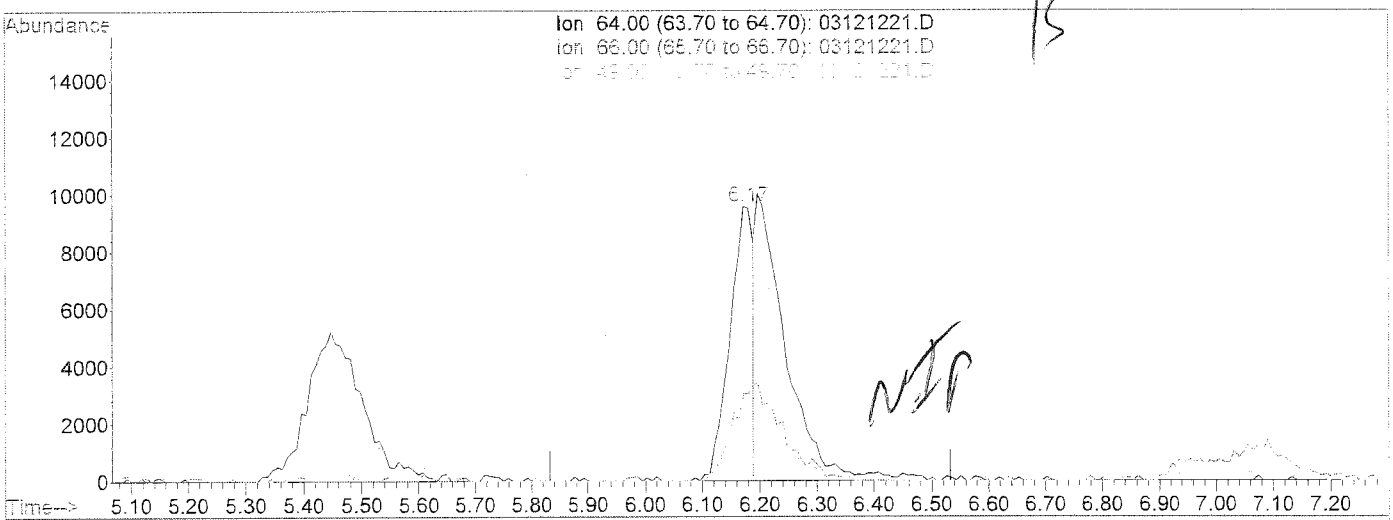
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

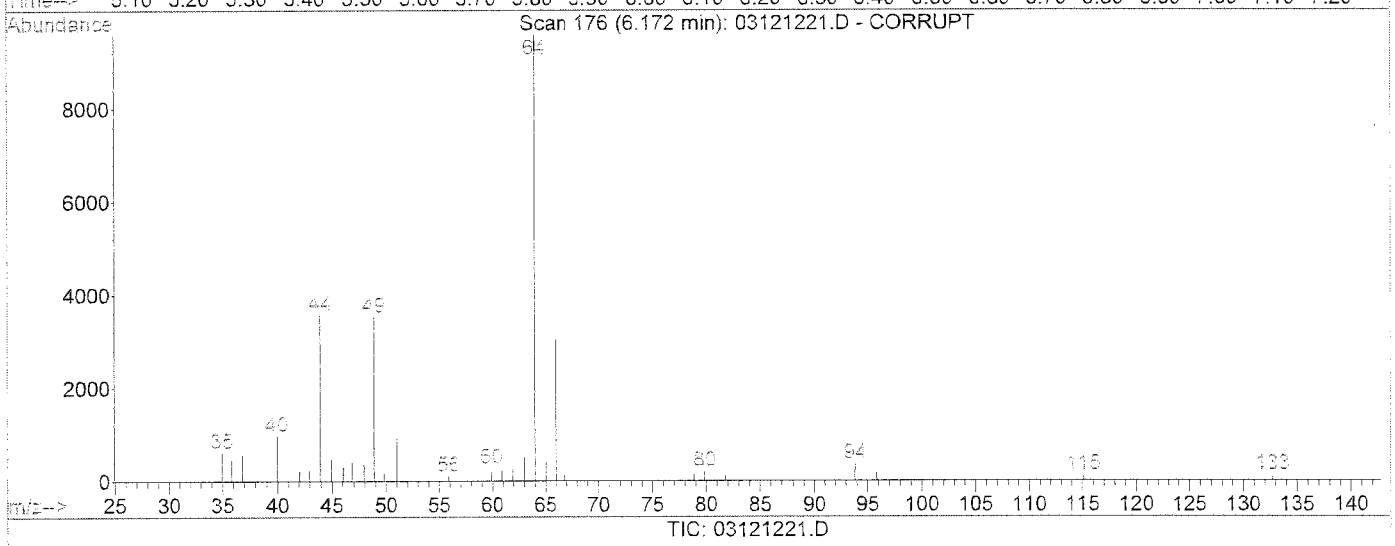


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.17min 2.48ug/L

response 27088

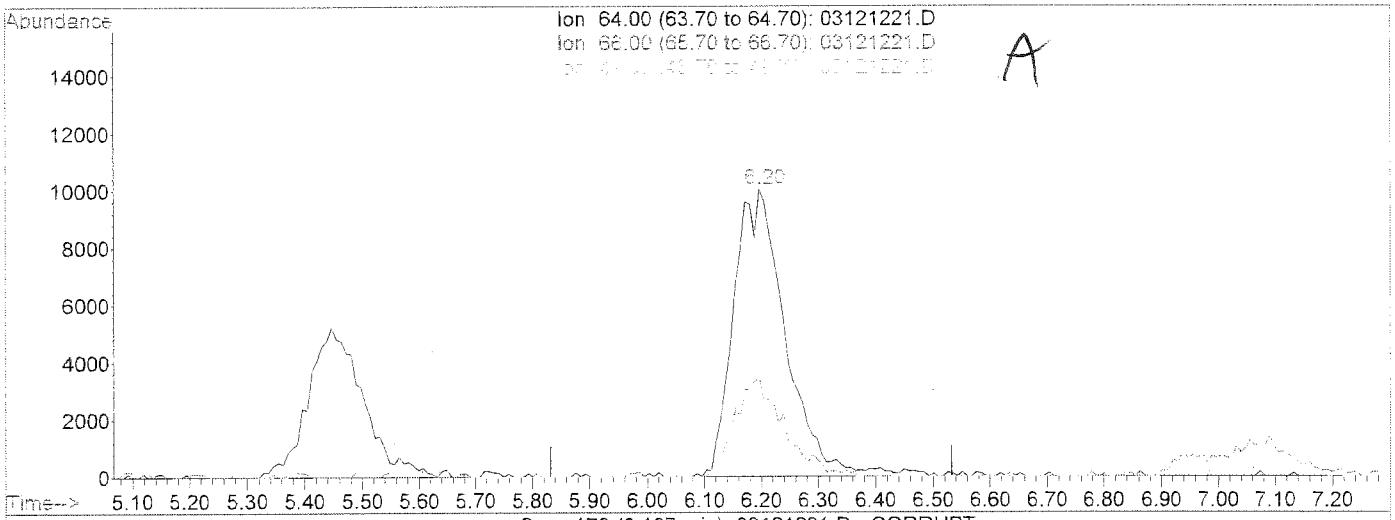
Ion	Exp%	Act%
64.00	100	100
66.00	32.30	69.91#
49.00	31.90	75.57#
0.00	0.00	0.00

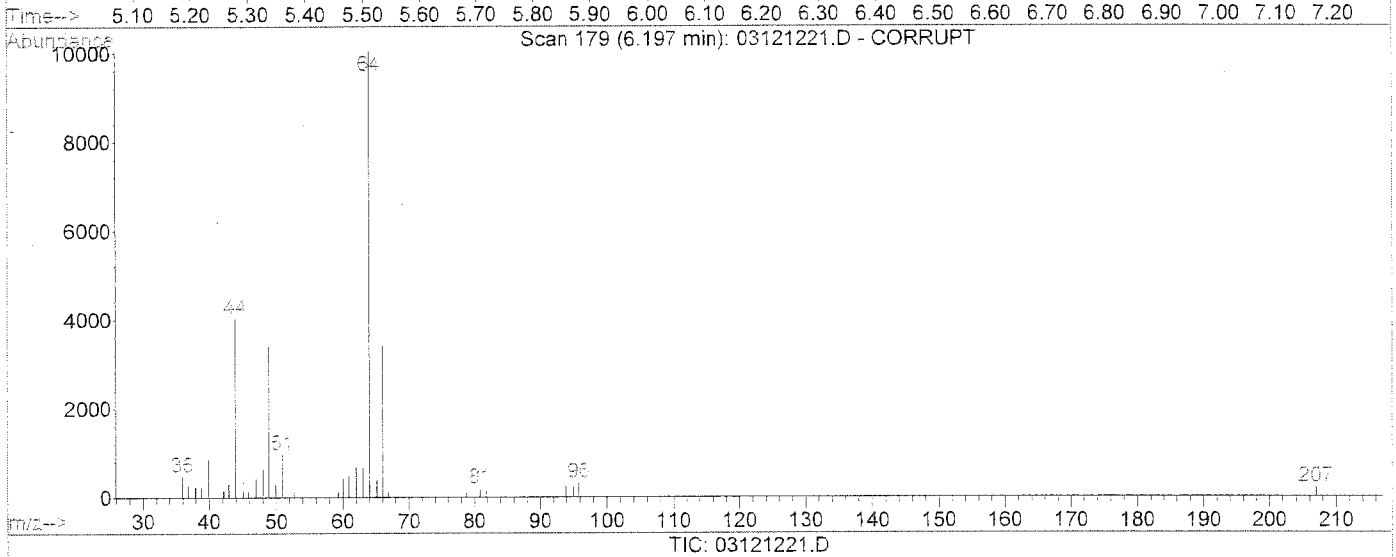
03121221.D 022812.M Tue Mar 13 09:14:32 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.20min 5.66ug/L m

response 61778

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.65
49.00	31.90	33.14
0.00	0.00	0.00

✓3/14/12

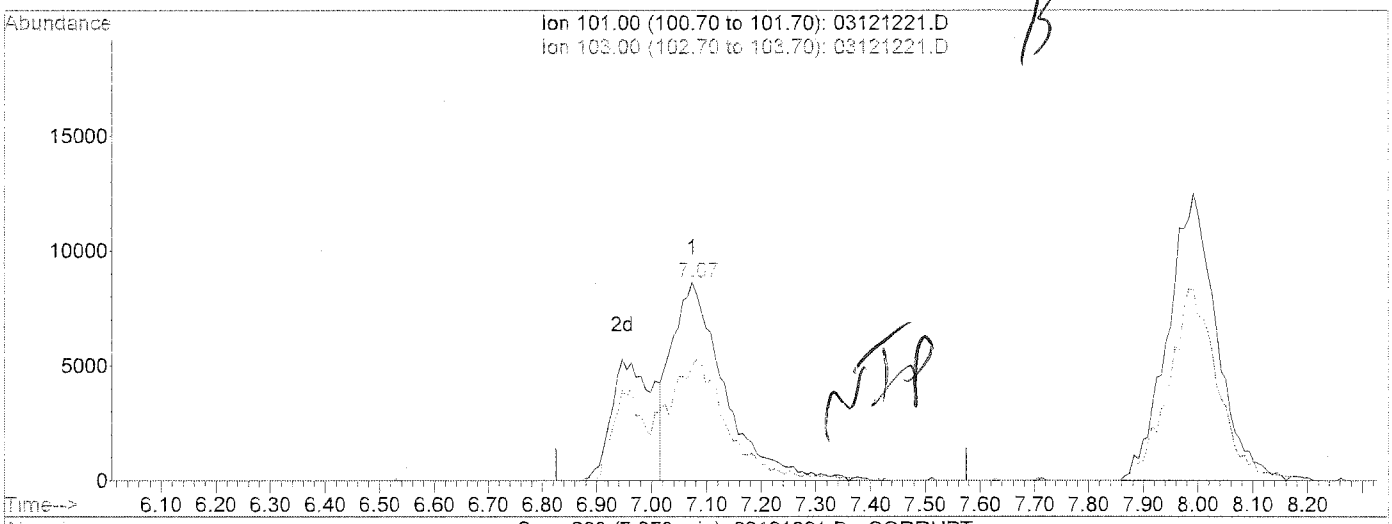
03121221.D 022812.M Tue Mar 13 09:14:41 2012

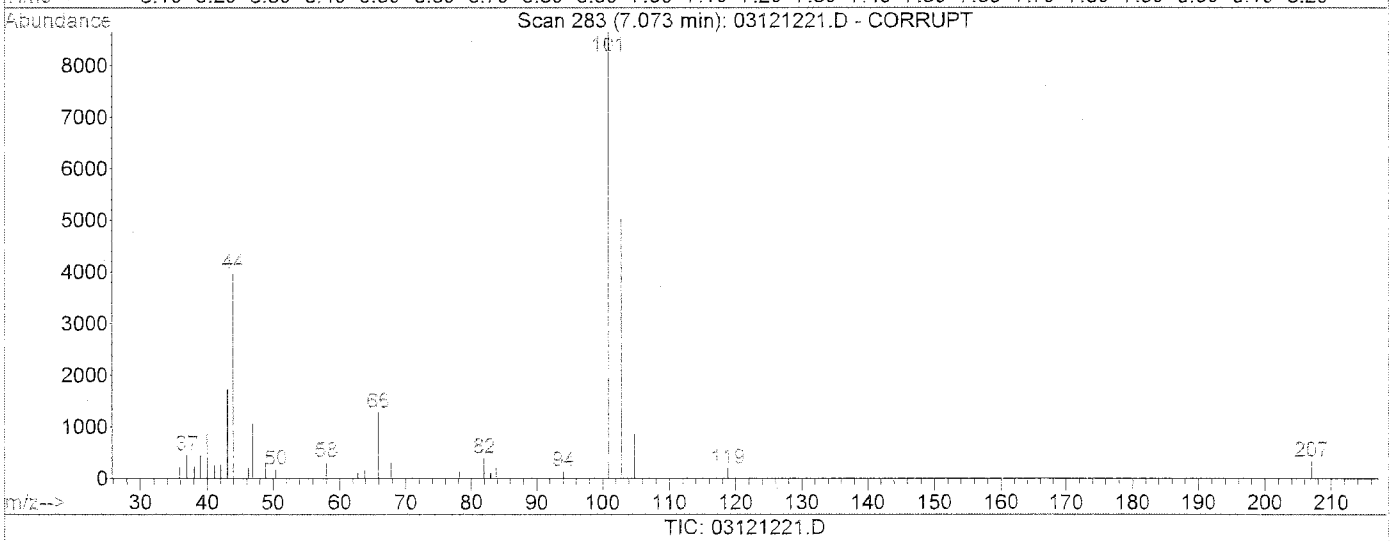
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

✓3/14/12

7.07min 3.39ug/L

response 57654

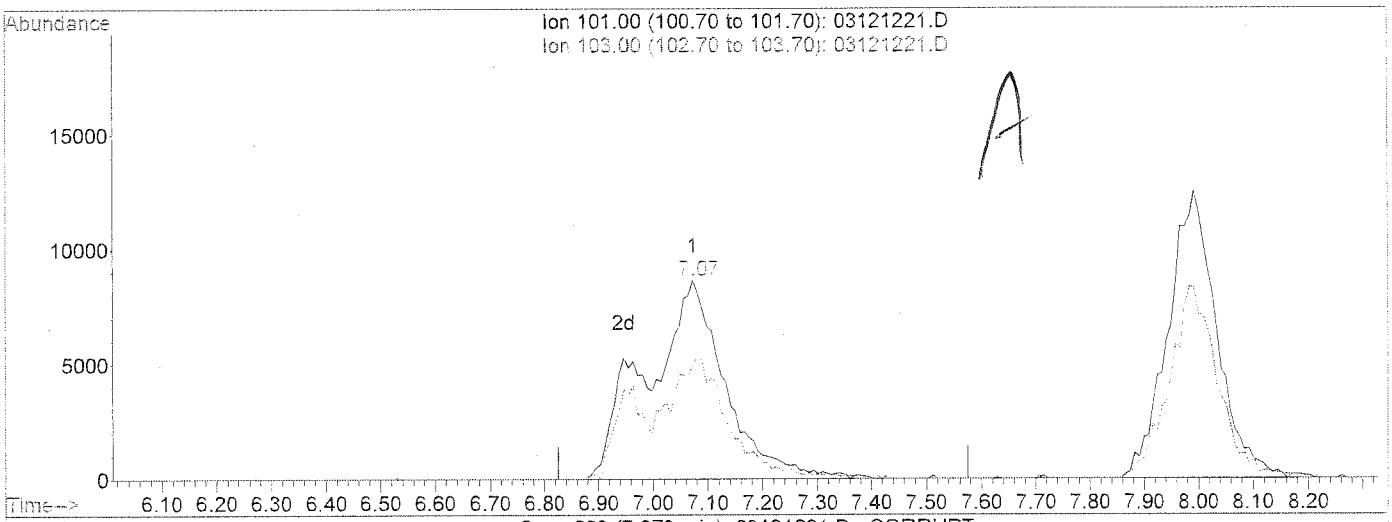
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	57.48
0.00	0.00	0.00
0.00	0.00	0.00

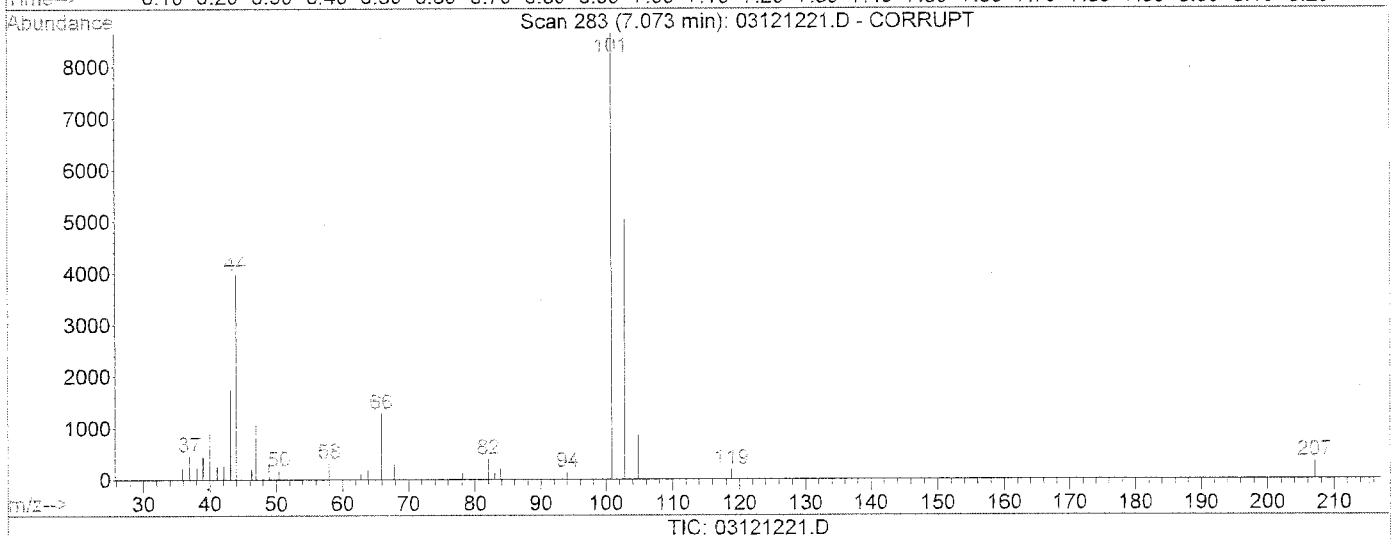
3/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(12) Trichlorofluoromethane (T)

7.07min 5.01ug/L m

response 85242

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	58.23
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121221.D 022812.M Tue Mar 13 09:14:52 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	76456	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	463012	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	766030	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	618831	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	292085	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	291596	28.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 112.88%	
50) Toluene-d8 (surr)	14.19	98	857389	24.82 ug/L	0.01
Spiked Amount 25.000			Recovery	= 99.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	317679	24.52 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.08%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	16460	21.86 ug/L	98
5) Dichlorodifluoromethane	4.91	85	110753	5.47 ug/L	64
6) Chloromethane	5.09	50	133575	6.06 ug/L	99
7) Vinyl Chloride	5.46	62	107498	6.12 ug/L	98
8) 1,3-Butadiene	5.56	54	62405	5.61 ug/L	98
9) Bromomethane	5.99	94	77153	5.74 ug/L	98
10) Chloroethane	6.20	64	61778m	5.66 ug/L	
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	85242m	5.01 ug/L	
13) Acetone	7.12	43	20732	5.69 ug/L	94
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	106266	5.29 ug/L #	69
16) 1,1-Dichloroethene	7.71	96	68803	5.43 ug/L	99
17) Methylene Chloride	7.87	84	83668	5.28 ug/L	98
18) Freon 113	7.99	101	77474	5.77 ug/L	98
19) Carbon Disulfide	8.30	76	185994	5.54 ug/L #	86
20) trans-1,2-Dichloroethene	8.74	96	77181	5.19 ug/L	100
21) MTBE	8.87	73	114445	4.73 ug/L	97
22) 1,1-Dichloroethane	9.05	63	143370	5.27 ug/L	98
23) Vinyl Acetate	9.21	43	95240	4.29 ug/L	99
24) n-Hexane	9.55	86	14318	5.65 ug/L #	85
25) 2-Butanone (MEK)	9.59	72	4227	5.64 ug/L #	66
26) Diisopropylether (DIPE)	9.59	45	283282	5.61 ug/L	97
27) cis-1,2-Dichloroethene	9.79	96	74121	5.17 ug/L	99
28) Bromochloromethane	9.99	128	30183	5.13 ug/L	97
29) Chloroform	10.05	83	131665	5.09 ug/L	99
30) 2,2-Dichloropropane	10.16	77	78511	5.80 ug/L	91
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	167086	5.05 ug/L	98
33) Tetrahydrofuran	10.48	72	2388	3.65 ug/L #	72
34) 1,2-Dichloroethane	10.89	62	81294	4.83 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	101670	4.97 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	108456	4.86 ug/L	96
38) 1,1-Dichloropropene	11.25	75	85300	4.55 ug/L	98
39) Carbon Tetrachloride	11.49	117	87086	4.54 ug/L	99
40) Benzene	11.54	78	227657	4.64 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

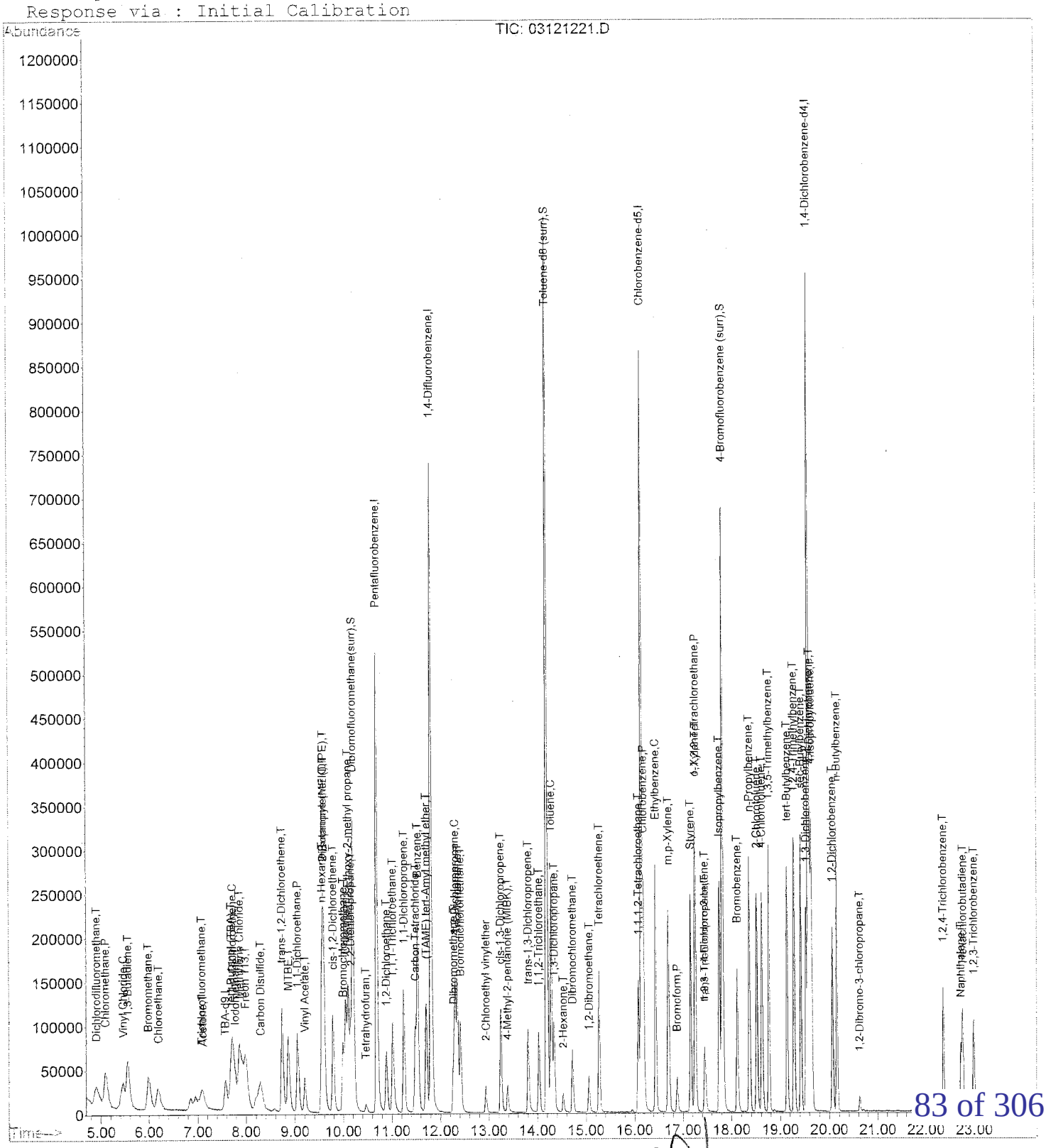
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	32809	4.54 ug/L	94
42) 1,2-Dichloropropane	12.31	63	66780	4.98 ug/L	96
43) Trichloroethene	12.36	95	66318	4.53 ug/L	99
44) Bromodichloromethane	12.42	83	87146	4.48 ug/L	96
45) 2-Chloroethyl vinylether	12.93	63	13618	3.21 ug/L	95
46) cis-1,3-Dichloropropene	13.25	75	81492	4.39 ug/L	97
47) 4-Methyl-2-pentanone (MIBK	13.39	43	33048	4.17 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	64809	4.25 ug/L	99
49) 1,1,2-Trichloroethane	14.03	97	38043	4.32 ug/L	99
51) Toluene	14.29	92	139870	4.59 ug/L	98
53) 1,3-Dichloropropane	14.35	76	67621	4.56 ug/L	97
54) 2-Hexanone	14.53	43	21791	4.16 ug/L	96
55) Dibromochloromethane	14.73	129	45499	4.22 ug/L	93
56) 1,2-Dibromoethane	15.06	107	36824	4.20 ug/L	100
57) Tetrachloroethene	15.27	164	45978	4.38 ug/L	96
58) 1,1,1,2-Tetrachloroethane	16.08	131	52675	4.58 ug/L	97
59) Chlorobenzene	16.19	112	153284	4.67 ug/L	97
60) Ethylbenzene	16.44	91	251227	4.66 ug/L	99
61) m,p-Xylene	16.71	106	96619	4.54 ug/L	98
62) Styrene	17.16	104	146562	4.53 ug/L	97
63) o-Xylene	17.26	106	100119	4.80 ug/L	96
66) Bromoform	16.88	173	24730	4.17 ug/L	96
67) 1,1,2,2-Tetrachloroethane	17.25	83	38634	4.72 ug/L	97
68) 1,2,3-Trichloropropane	17.45	110	10077	4.31 ug/L	95
69) trans-1,4-Dichloro-2-buten	17.46	53	12132	4.44 ug/L	95
70) Isopropylbenzene	17.76	105	221273	4.85 ug/L	100
71) Bromobenzene	18.12	156	52614	4.37 ug/L	90
72) n-Propylbenzene	18.37	91	285262	4.90 ug/L	99
73) 2-Chlorotoluene	18.52	91	182947	4.83 ug/L	99
74) 4-Chlorotoluene	18.62	91	185869	4.83 ug/L	99
75) 1,3,5-Trimethylbenzene	18.76	105	209492	4.96 ug/L	99
76) tert-Butylbenzene	19.15	119	158073	4.90 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	213299	4.90 ug/L	99
78) sec-Butylbenzene	19.43	105	261719	5.06 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	108274	4.75 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	107413	4.70 ug/L	98
81) 4-Isopropyltoluene	19.66	119	210458	5.00 ug/L	99
82) 1,2-Dichlorobenzene	20.06	146	92430	4.61 ug/L	99
83) n-Butylbenzene	20.15	91	200959	5.00 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	4941	3.76 ug/L	93
85) 1,2,4-Trichlorobenzene	22.37	180	59736	3.89 ug/L	98
86) Naphthalene	22.72	128	72945	3.70 ug/L	99
87) Hexachlorobutadiene	22.76	225	30626	4.26 ug/L	96
88) 1,2,3-Trichlorobenzene	22.99	180	47537	3.90 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121221.D 022812.M Tue Mar 13 09:15:17 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

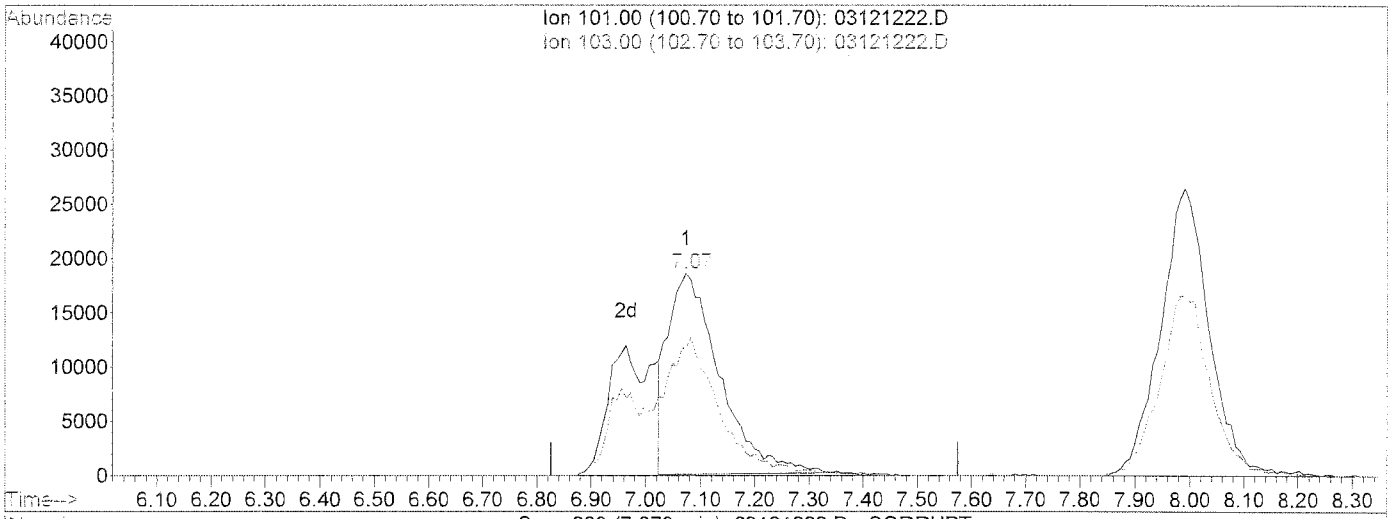
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

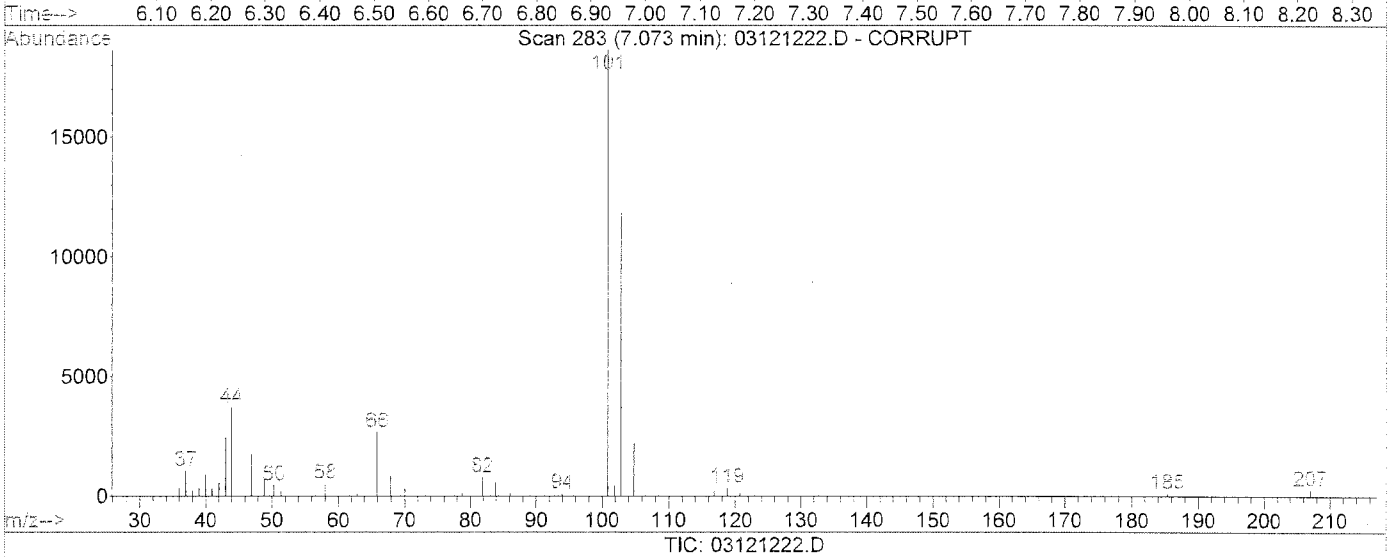


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 6.84ug/L

response 122363

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	62.83
0.00	0.00	0.00
0.00	0.00	0.00

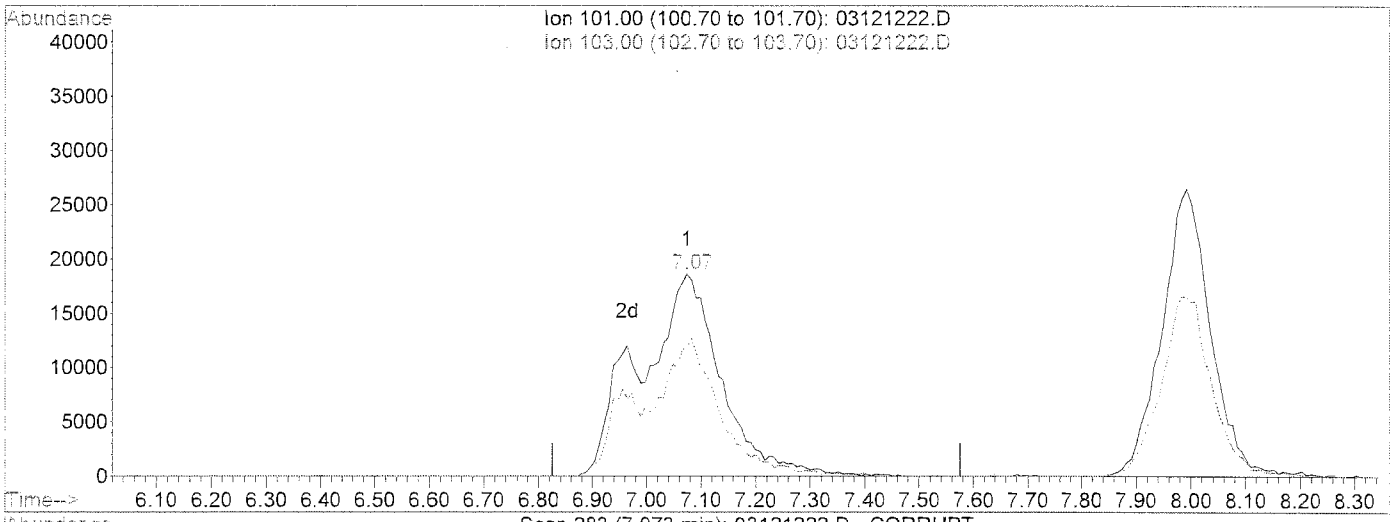
3/14/12

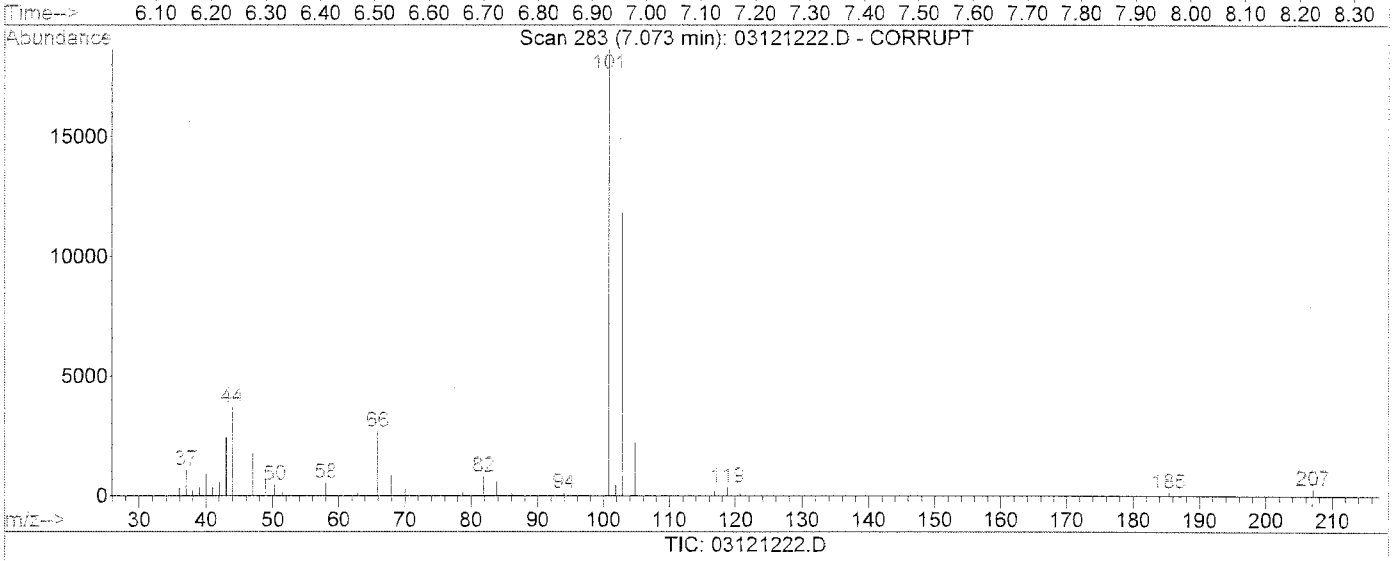
03121222.D 022812.M Tue Mar 13 09:15:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 10.72ug/L m

response 191737

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	63.43
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121222.D 022812.M Tue Mar 13 09:15:44 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	79757	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	486849	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	775452	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	624308	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	295653	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	296755	27.31 ug/L	0.01
Spiked Amount 25.000			Recovery	= 109.24%	
50) Toluene-d8 (surr)	14.19	98	855889	24.47 ug/L	0.01
Spiked Amount 25.000			Recovery	= 97.88%	
64) 4-Bromofluorobenzene (surr	17.82	95	323147	24.73 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.92%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	34389	43.79 ug/L	98
5) Dichlorodifluoromethane	4.91	85	233414	10.97 ug/L	100
6) Chloromethane	5.10	50	272897	11.76 ug/L	99
7) Vinyl Chloride	5.46	62	225890	12.23 ug/L	99
8) 1,3-Butadiene	5.56	54	134123	11.47 ug/L	97
9) Bromomethane	5.99	94	161442	11.43 ug/L	100
10) Chloroethane	6.19	64	130470	11.36 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	191737m	10.72 ug/L	
13) Acetone	7.12	43	41674	10.88 ug/L #	69
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	229034	10.85 ug/L	98
16) 1,1-Dichloroethene	7.72	96	140650	10.56 ug/L	99
17) Methylene Chloride	7.87	84	173009	10.38 ug/L	98
18) Freon 113	7.99	101	163942	11.61 ug/L	98
19) Carbon Disulfide	8.29	76	407260	11.54 ug/L #	94
20) trans-1,2-Dichloroethene	8.74	96	170398	10.90 ug/L	98
21) MTBE	8.87	73	258623	10.18 ug/L	99
22) 1,1-Dichloroethane	9.06	63	310679	10.87 ug/L	100
23) Vinyl Acetate	9.21	43	223071	9.56 ug/L	99
24) n-Hexane	9.55	86	29312	10.99 ug/L #	81
25) 2-Butanone (MEK)	9.59	72	9452	11.98 ug/L #	99
26) Diisopropylether (DIPE)	9.59	45	576872	10.86 ug/L	97
27) cis-1,2-Dichloroethene	9.79	96	157998	10.48 ug/L	99
28) Bromochloromethane	10.00	128	64587	10.44 ug/L	97
29) Chloroform	10.05	83	270666	9.96 ug/L	98
30) 2,2-Dichloropropane	10.16	77	165885	11.65 ug/L	98
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	360908	10.38 ug/L	99
33) Tetrahydrofuran	10.48	72	5986	8.71 ug/L #	88
34) 1,2-Dichloroethane	10.89	62	165680	9.36 ug/L	97
35) 1,1,1-Trichloroethane	11.02	97	207576	9.66 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	231521	9.87 ug/L	97
38) 1,1-Dichloropropene	11.25	75	184066	9.70 ug/L	100
39) Carbon Tetrachloride	11.49	117	182649	9.42 ug/L	100
40) Benzene	11.54	78	471097	9.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121222.D 022812.M Tue Mar 13 09:16:07 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

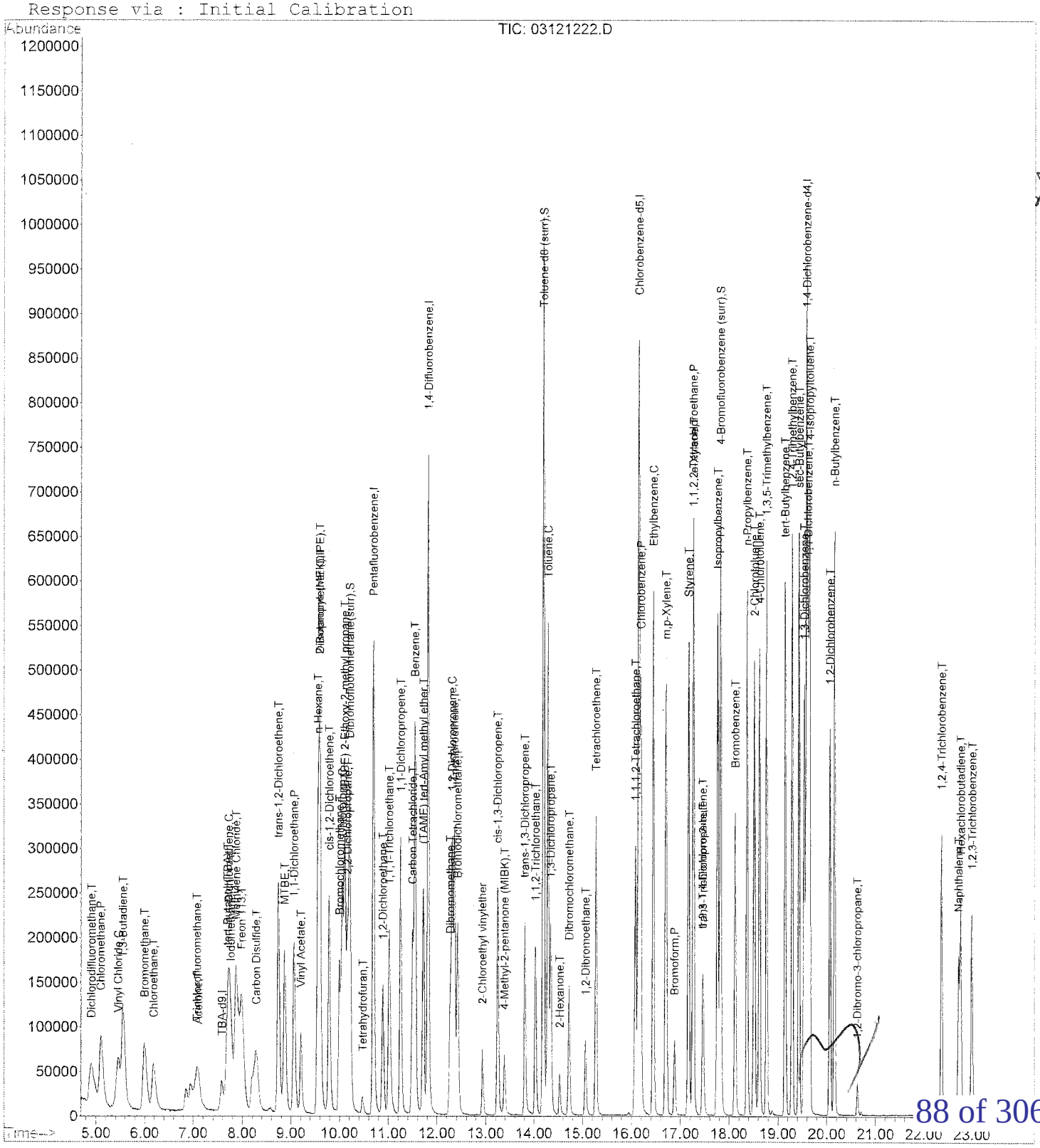
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	69674	9.52 ug/L	96
42)	1,2-Dichloropropane	12.31	63	136171	10.04 ug/L	97
43)	Trichloroethene	12.36	95	134365	9.07 ug/L	97
44)	Bromodichloromethane	12.42	83	181335	9.21 ug/L	97
45)	2-Chloroethyl vinylether	12.93	63	34649	8.08 ug/L	99
46)	cis-1,3-Dichloropropene	13.25	75	176827	9.42 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	73057	9.11 ug/L	95
48)	trans-1,3-Dichloropropene	13.81	75	142327	9.22 ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	80867	9.08 ug/L	96
51)	Toluene	14.29	92	295981	9.60 ug/L	99
53)	1,3-Dichloropropane	14.35	76	137303	9.18 ug/L	100
54)	2-Hexanone	14.53	43	47420	8.98 ug/L	97
55)	Dibromochloromethane	14.73	129	98268	9.03 ug/L	99
56)	1,2-Dibromoethane	15.06	107	80699	9.13 ug/L	99
57)	Tetrachloroethene	15.27	164	96745	9.15 ug/L	96
58)	1,1,1,2-Tetrachloroethane	16.08	131	108882	9.38 ug/L	98
59)	Chlorobenzene	16.19	112	319501	9.66 ug/L	100
60)	Ethylbenzene	16.44	91	540022	9.92 ug/L	100
61)	m,p-Xylene	16.71	106	211035	9.83 ug/L	97
62)	Styrene	17.16	104	322967	9.89 ug/L	98
63)	o-Xylene	17.26	106	204818	9.73 ug/L	98
66)	Bromoform	16.88	173	53397	8.89 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	79551	9.60 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	21262	8.99 ug/L	95
69)	trans-1,4-Dichloro-2-buten	17.46	53	27862	10.06 ug/L	95
70)	Isopropylbenzene	17.76	105	484544	10.50 ug/L	100
71)	Bromobenzene	18.12	156	113822	9.33 ug/L	96
72)	n-Propylbenzene	18.37	91	610210	10.35 ug/L	98
73)	2-Chlorotoluene	18.52	91	383349	10.00 ug/L	99
74)	4-Chlorotoluene	18.62	91	392324	10.06 ug/L	100
75)	1,3,5-Trimethylbenzene	18.76	105	434114	10.15 ug/L	99
76)	tert-Butylbenzene	19.14	119	339794	10.42 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	453994	10.31 ug/L	100
78)	sec-Butylbenzene	19.43	105	550104	10.51 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	225183	9.76 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	223736	9.68 ug/L	99
81)	4-Isopropyltoluene	19.65	119	439864	10.32 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	191958	9.46 ug/L	98
83)	n-Butylbenzene	20.15	91	426494	10.48 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.62	75	10602	7.97 ug/L	93
85)	1,2,4-Trichlorobenzene	22.36	180	134922	8.68 ug/L	99
86)	Naphthalene	22.71	128	178240	8.93 ug/L	99
87)	Hexachlorobutadiene	22.76	225	64556	8.88 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	105646	8.56 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

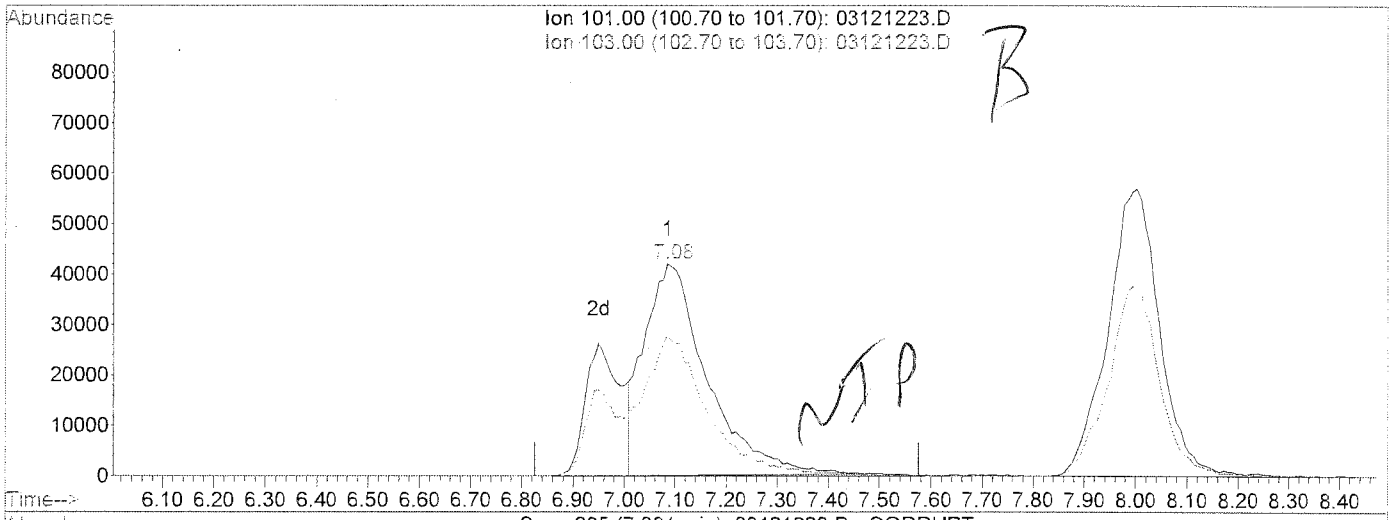
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

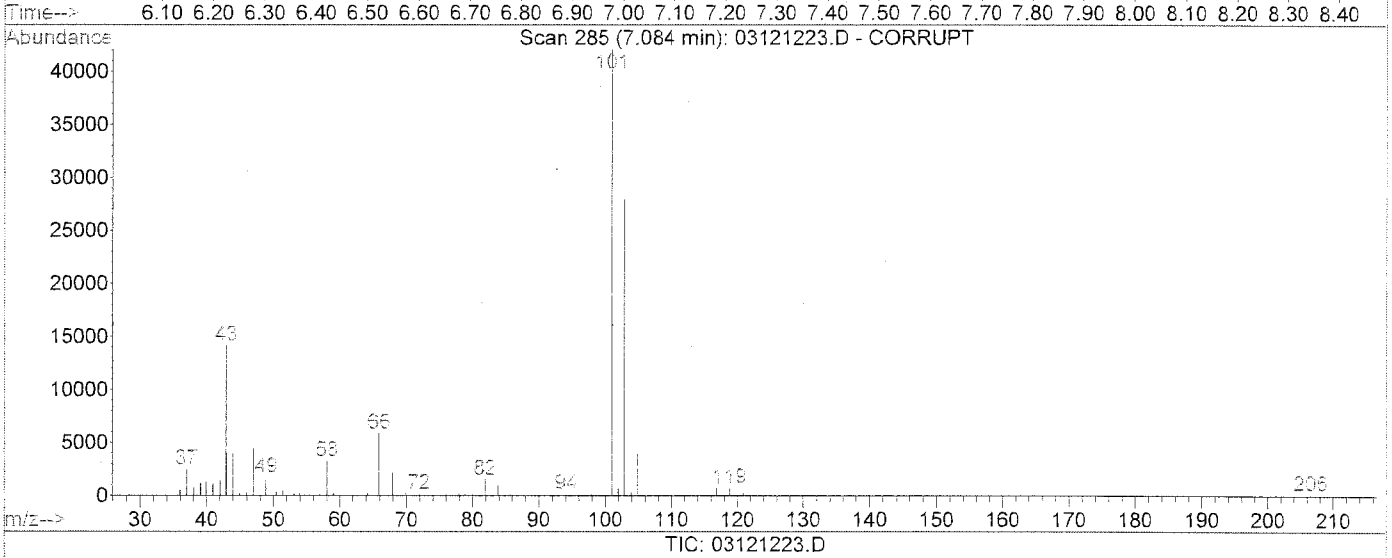


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 19.91ug/L

response 360529

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	66.63
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

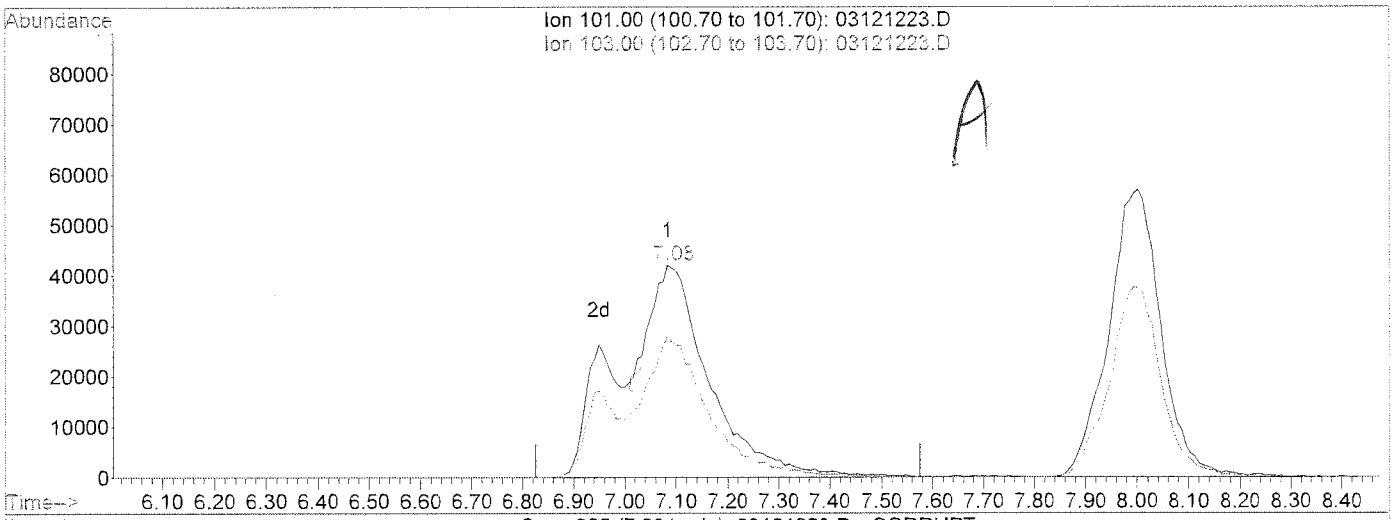
M 3/14/12

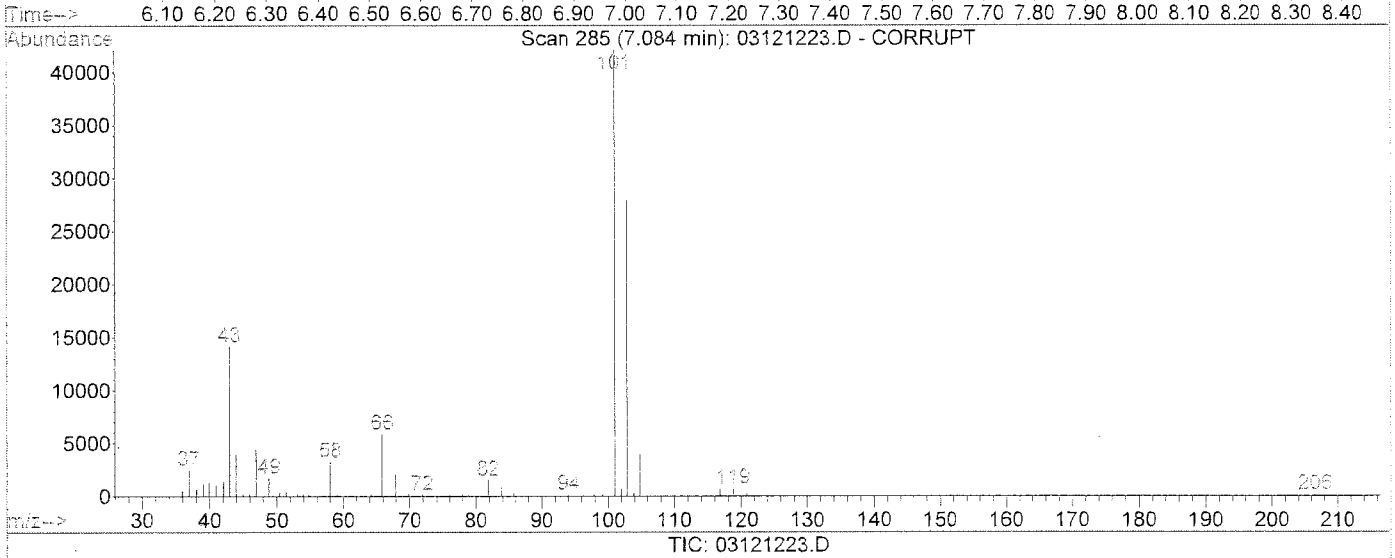
03121223.D 022812.M Tue Mar 13 09:18:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 27.31ug/L m

response 494534

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	66.43
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

03121223.D 022812.M Tue Mar 13 09:18:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	80167	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	492791	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	798415	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	646440	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	305368	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	282508	25.69 ug/L	0.00
Spiked Amount 25.000			Recovery = 102.76%		
50) Toluene-d8 (surr)	14.19	98	892210	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery = 99.12%		
64) 4-Bromofluorobenzene (surr	17.82	95	336364	24.86 ug/L	0.02
Spiked Amount 25.000			Recovery = 99.44%		

Target Compounds					Qvalue
2) Ethanol	6.18	45	10390	136.22 ug/L #	67
3) tert-Butanol (TBA)	7.68	59	89818	113.79 ug/L	97
5) Dichlorodifluoromethane	4.90	85	571399	26.53 ug/L	99
6) Chloromethane	5.13	50	651733	27.76 ug/L	99
7) Vinyl Chloride	5.48	62	564408	30.18 ug/L	100
8) 1,3-Butadiene	5.55	54	335852	28.38 ug/L	96
9) Bromomethane	6.01	94	379783	26.56 ug/L	99
10) Chloroethane	6.20	64	322361	27.73 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	494534m	27.31 ug/L	
13) Acetone	7.11	43	90791	23.41 ug/L	99
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	562587	26.33 ug/L	98
16) 1,1-Dichloroethene	7.72	96	357567	26.52 ug/L	100
17) Methylene Chloride	7.87	84	408422	24.21 ug/L	97
18) Freon 113	8.00	101	398046	27.84 ug/L	98
19) Carbon Disulfide	8.30	76	982895	27.51 ug/L #	89
20) trans-1,2-Dichloroethene	8.74	96	415053	26.22 ug/L	98
21) MTBE	8.87	73	633555	24.63 ug/L	98
22) 1,1-Dichloroethane	9.06	63	740526	25.60 ug/L	100
23) Vinyl Acetate	9.20	43	579235	24.53 ug/L	100
24) n-Hexane	9.55	86	75389	27.93 ug/L	97
25) 2-Butanone (MEK)	9.59	72	20601	25.81 ug/L #	68
26) Diisopropylether (DIPE)	9.59	45	1385358	25.76 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	381596	25.01 ug/L	98
28) Bromochloromethane	9.99	128	154452	24.66 ug/L	98
29) Chloroform	10.05	83	645080	23.44 ug/L	99
30) 2,2-Dichloropropane	10.15	77	379633	26.35 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	908740	25.81 ug/L	99
33) Tetrahydrofuran	10.47	72	14974	21.53 ug/L	92
34) 1,2-Dichloroethane	10.89	62	406910	22.71 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	510320	23.46 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	610177	25.70 ug/L	98
38) 1,1-Dichloropropene	11.25	75	458167	23.45 ug/L	99
39) Carbon Tetrachloride	11.49	117	449604	22.51 ug/L	99
40) Benzene	11.54	78	1178264	23.04 ug/L	100

(#) = qualifier out of range (m) = manual integration

03121223.D 022812.M Tue Mar 13 09:18:35 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	166858	22.14 ug/L	97
42)	1,2-Dichloropropane	12.31	63	332258	23.79 ug/L	97
43)	Trichloroethene	12.35	95	341021	22.37 ug/L	99
44)	Bromodichloromethane	12.42	83	437229	21.57 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	97654	22.12 ug/L	98
46)	cis-1,3-Dichloropropene	13.24	75	467175	24.16 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	181696	22.00 ug/L	100
48)	trans-1,3-Dichloropropene	13.81	75	372724	23.46 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	198985	21.69 ug/L	97
51)	Toluene	14.29	92	735769	23.17 ug/L	99
53)	1,3-Dichloropropane	14.35	76	348633	22.52 ug/L	98
54)	2-Hexanone	14.53	43	129484	23.67 ug/L	97
55)	Dibromochloromethane	14.72	129	251236	22.31 ug/L	98
56)	1,2-Dibromoethane	15.06	107	202411	22.11 ug/L	98
57)	Tetrachloroethene	15.28	164	246323	22.49 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	272056	22.64 ug/L	100
59)	Chlorobenzene	16.19	112	816871	23.85 ug/L	99
60)	Ethylbenzene	16.45	91	1368328	24.28 ug/L	99
61)	m,p-Xylene	16.71	106	546344	24.57 ug/L	97
62)	Styrene	17.16	104	842432	24.92 ug/L	98
63)	o-Xylene	17.26	106	534418	24.53 ug/L	96
66)	Bromoform	16.89	173	140639	22.68 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	200319	23.40 ug/L	100
68)	1,2,3-Trichloropropane	17.45	110	57525	23.56 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	74246	25.96 ug/L	98
70)	Isopropylbenzene	17.76	105	1233820	25.89 ug/L	99
71)	Bromobenzene	18.12	156	293836	23.32 ug/L	95
72)	n-Propylbenzene	18.37	91	1552221	25.48 ug/L	98
73)	2-Chlorotoluene	18.51	91	979196	24.73 ug/L	98
74)	4-Chlorotoluene	18.62	91	998478	24.80 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	1124979	25.47 ug/L	98
76)	tert-Butylbenzene	19.14	119	872188	25.89 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	1152465	25.33 ug/L	99
78)	sec-Butylbenzene	19.43	105	1389193	25.69 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	564256	23.67 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	559180	23.42 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1104698	25.11 ug/L	100
82)	1,2-Dichlorobenzene	20.06	146	497593	23.73 ug/L	99
83)	n-Butylbenzene	20.15	91	1074212	25.57 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.63	75	29119	21.18 ug/L	94
85)	1,2,4-Trichlorobenzene	22.36	180	355534	22.15 ug/L	98
86)	Naphthalene	22.72	128	470024	22.79 ug/L	98
87)	Hexachlorobutadiene	22.76	225	161440	21.50 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	269901	21.17 ug/L	99

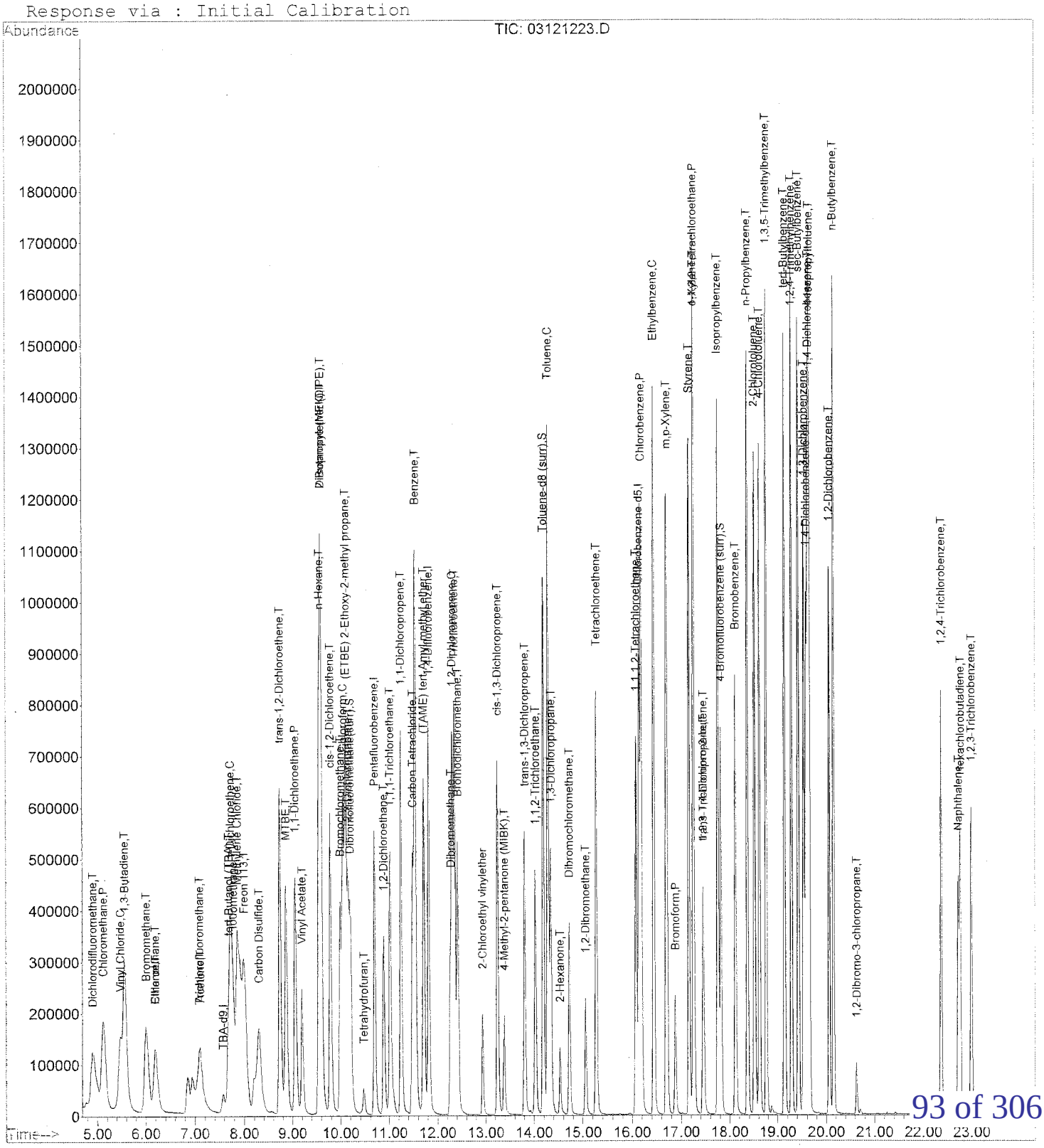
M

(#) = qualifier out of range (m) = manual integration
03121223.D 022812.M Tue Mar 13 09:18:35 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

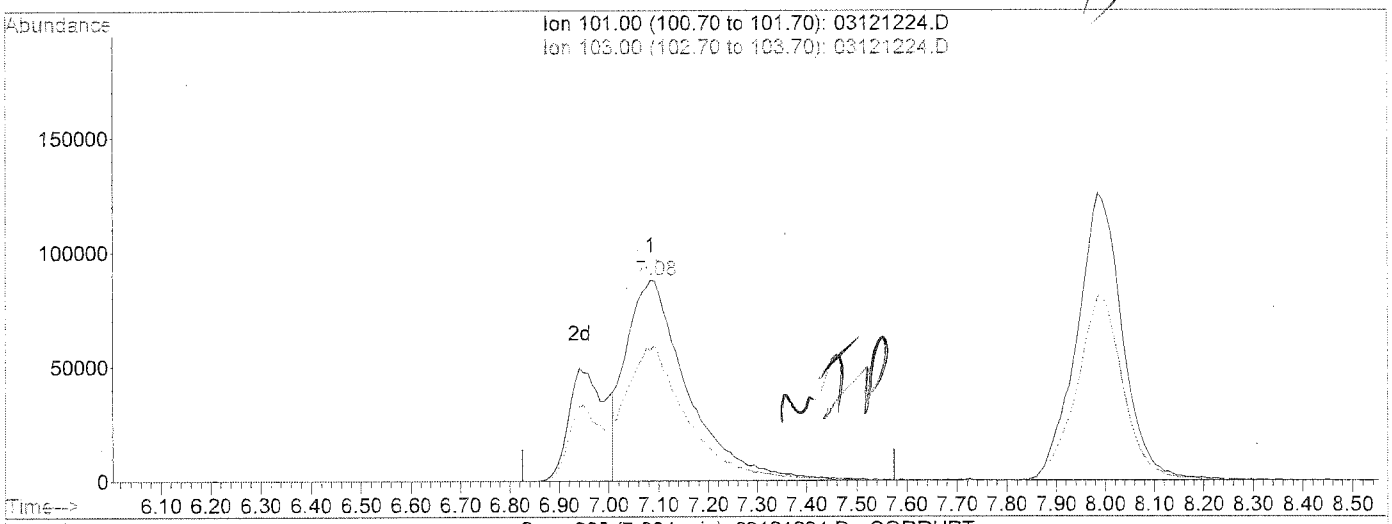


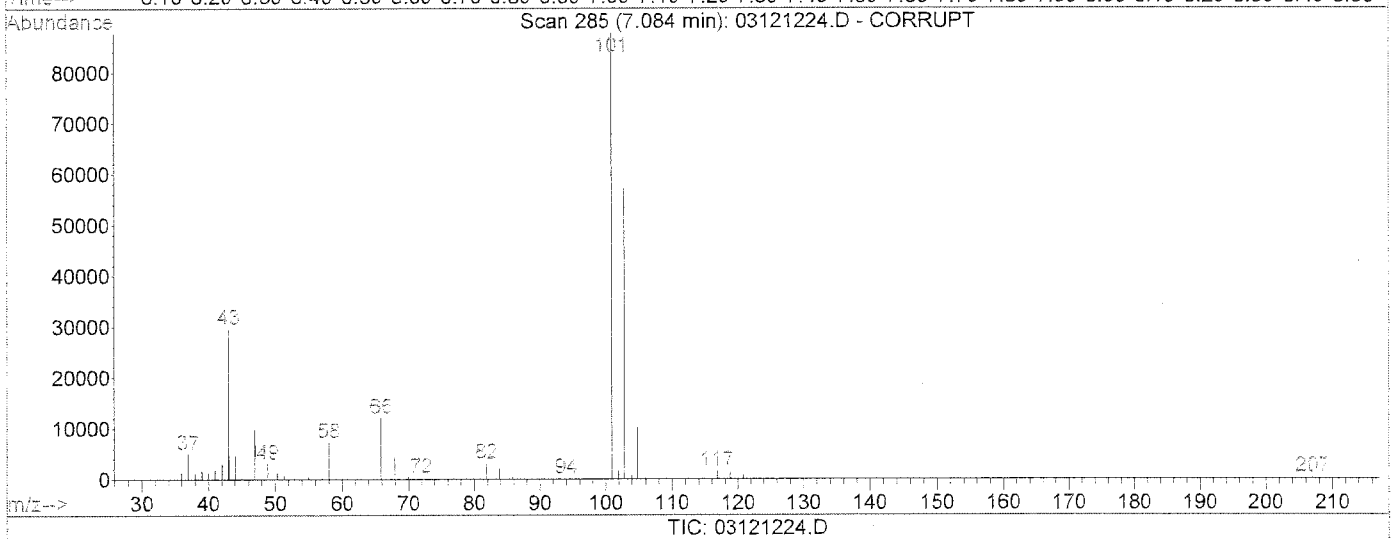
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

7.08min 40.31ug/L

response 749173

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.83
0.00	0.00	0.00
0.00	0.00	0.00

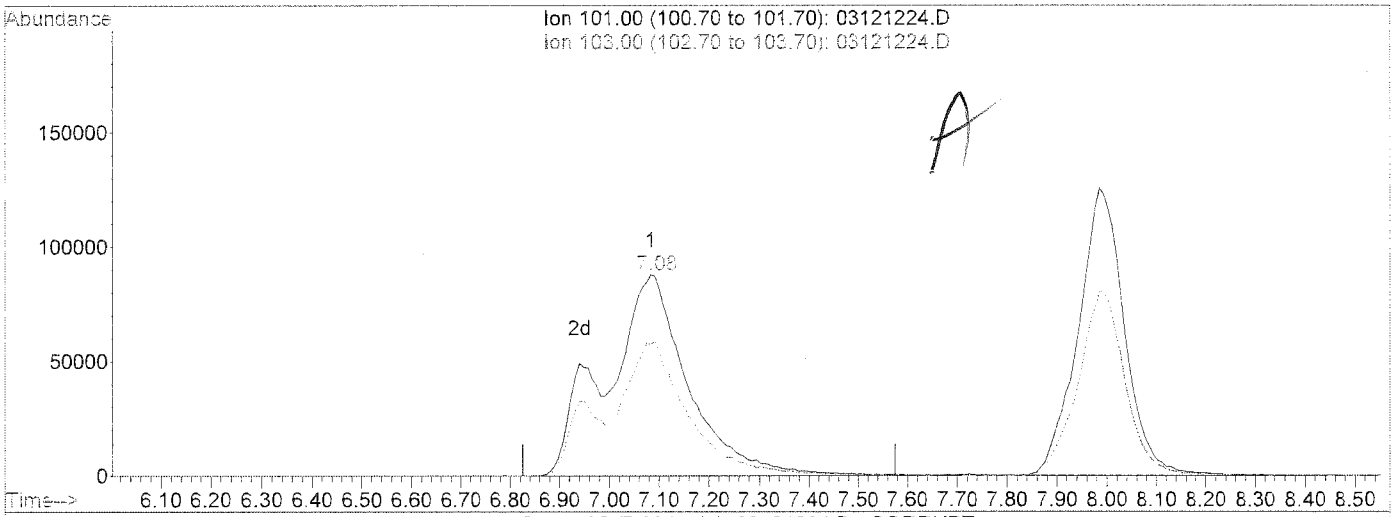
✓3/14/12

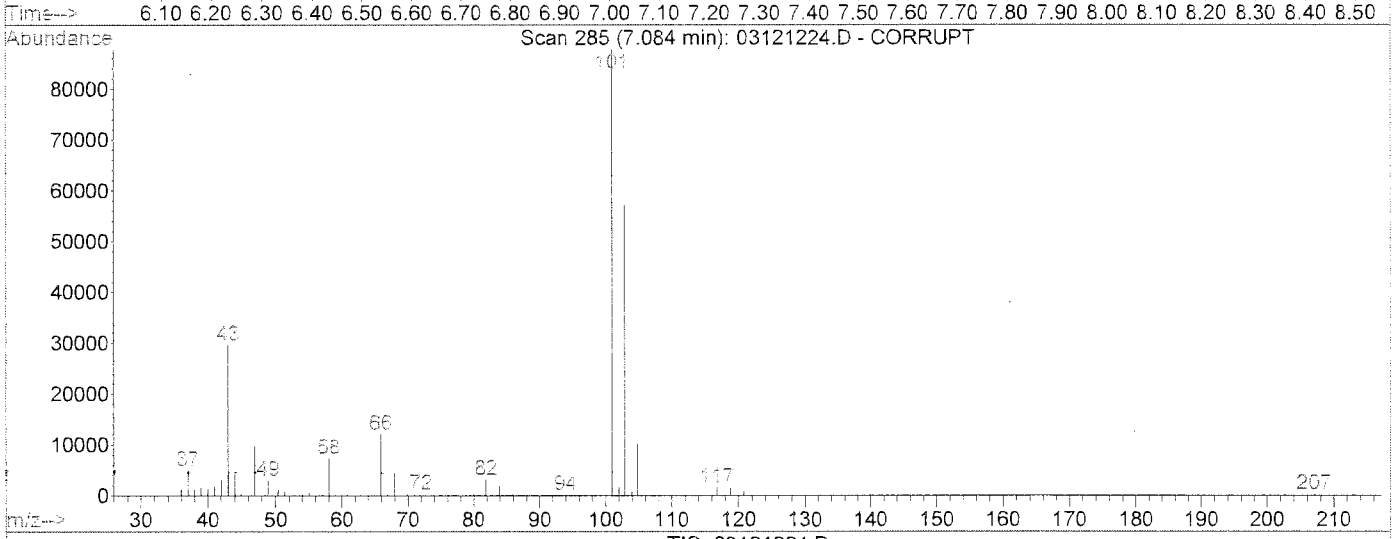
03121224.D 022812.M Tue Mar 13 09:18:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121224.D

(12) Trichlorofluoromethane (T)

3/14/12

7.08min 54.37ug/L m

response 1010296

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.05
0.00	0.00	0.00
0.00	0.00	0.00

03121224.D 022812.M Tue Mar 13 09:19:00 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95808	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	505691	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	832158	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	687622	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	321829	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311361	27.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 110.36%	
50) Toluene-d8 (surr)	14.19	98	951272	25.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.36%	
64) 4-Bromofluorobenzene (surr	17.82	95	366260	25.45 ug/L	0.02
Spiked Amount 25.000			Recovery	= 101.80%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	31106	341.24 ug/L #	82
3) tert-Butanol (TBA)	7.68	59	203364	215.57 ug/L	99
5) Dichlorodifluoromethane	4.89	85	1170906	52.99 ug/L	100
6) Chloromethane	5.13	50	1251329	51.94 ug/L	100
7) Vinyl Chloride	5.47	62	1121383	58.43 ug/L	100
8) 1,3-Butadiene	5.56	54	682368	56.19 ug/L	96
9) Bromomethane	6.01	94	768871	52.39 ug/L	99
10) Chloroethane	6.19	64	675756	56.64 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	1010296m	54.37 ug/L	
13) Acetone	7.10	43	170392	42.81 ug/L	98
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	1161293	52.96 ug/L	98
16) 1,1-Dichloroethene	7.72	96	732773	52.96 ug/L	99
17) Methylene Chloride	7.87	84	837287	48.37 ug/L	99
18) Freon 113	7.99	101	805807	54.93 ug/L	98
19) Carbon Disulfide	8.30	76	2001163	54.59 ug/L #	97
20) trans-1,2-Dichloroethene	8.74	96	821510	50.58 ug/L	99
21) MTBE	8.86	73	1361624	51.58 ug/L	99
22) 1,1-Dichloroethane	9.06	63	1451271	48.88 ug/L	100
23) Vinyl Acetate	9.20	43	1259910	51.99 ug/L	100
24) n-Hexane	9.55	86	146059	52.74 ug/L	96
25) 2-Butanone (MEK)	9.59	72	41313	50.43 ug/L #	76
26) Diisopropylether (DIPE)	9.59	45	2822889	51.15 ug/L	100
27) cis-1,2-Dichloroethene	9.78	96	765459	48.88 ug/L	98
28) Bromochloromethane	9.99	128	304560	47.38 ug/L	99
29) Chloroform	10.05	83	1272068	45.05 ug/L	99
30) 2,2-Dichloropropane	10.16	77	752114	50.86 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	1917641	53.07 ug/L	99
33) Tetrahydrofuran	10.47	72	33967	47.60 ug/L	95
34) 1,2-Dichloroethane	10.88	62	821650	44.69 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	1015237	45.48 ug/L	99
36) (TAME) tert-Amyl methyl et	11.71	73	1329392	54.57 ug/L	98
38) 1,1-Dichloropropene	11.25	75	918652	45.11 ug/L	99
39) Carbon Tetrachloride	11.49	117	896641	43.07 ug/L	100
40) Benzene	11.54	78	2320089	43.53 ug/L	99

(#) = qualifier out of range (m) = manual integration

03121224.D 022812.M Tue Mar 13 09:21:39 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

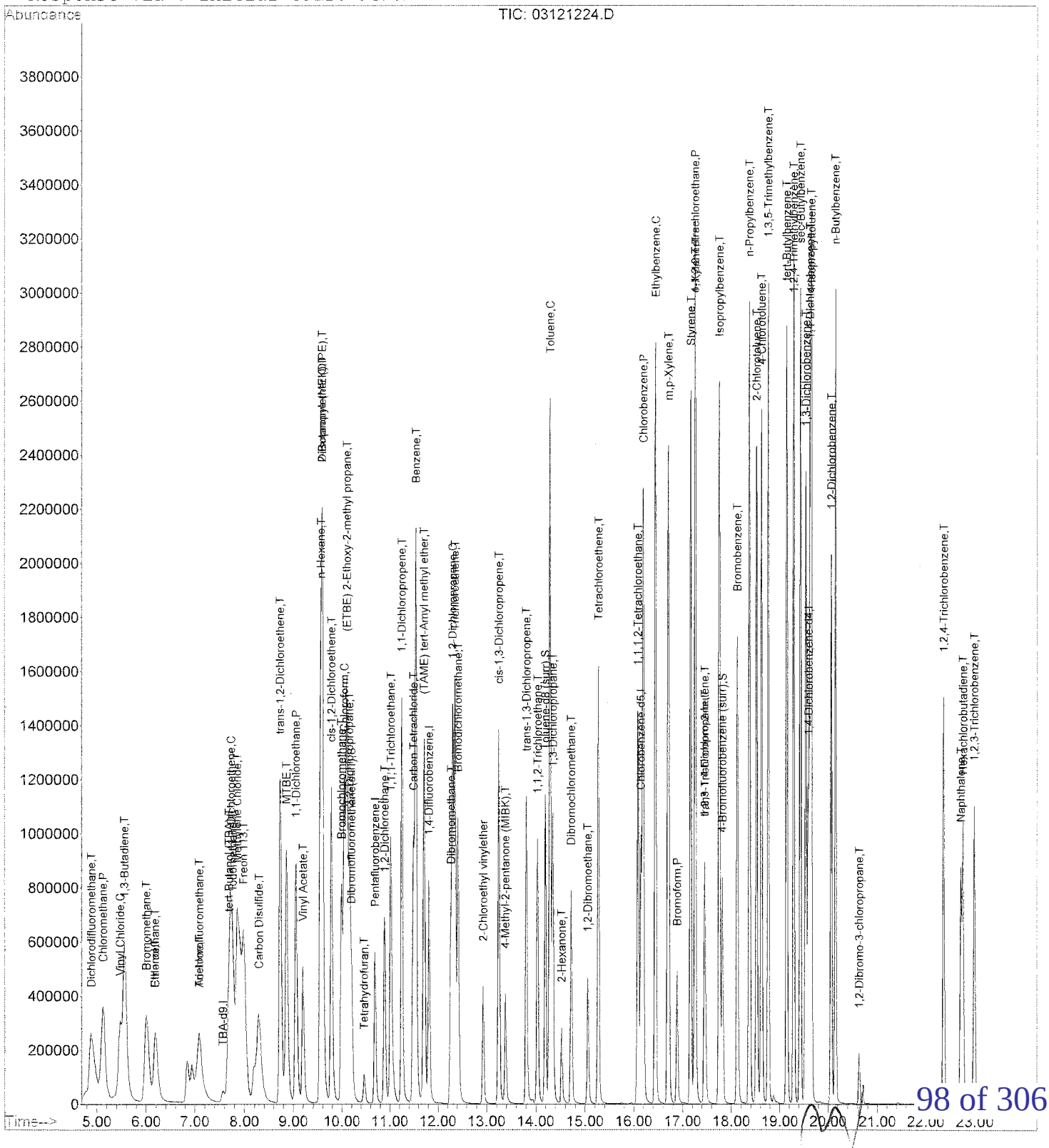
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	345678	44.00 ug/L	98
42)	1,2-Dichloropropane	12.31	63	662396	45.51 ug/L	97
43)	Trichloroethene	12.35	95	678421	42.70 ug/L	98
44)	Bromodichloromethane	12.42	83	871260	41.23 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	219445	47.68 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	950520	47.17 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	415856	48.31 ug/L	99
48)	trans-1,3-Dichloropropene	13.81	75	770779	46.55 ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	410295	42.91 ug/L	96
51)	Toluene	14.29	92	1476094	44.59 ug/L	99
53)	1,3-Dichloropropane	14.35	76	724028	43.97 ug/L	99
54)	2-Hexanone	14.53	43	278124	47.81 ug/L	98
55)	Dibromochloromethane	14.72	129	536153	44.76 ug/L	98
56)	1,2-Dibromoethane	15.06	107	430576	44.23 ug/L	98
57)	Tetrachloroethene	15.28	164	492240	42.25 ug/L	97
58)	1,1,1,2-Tetrachloroethane	16.08	131	552879	43.25 ug/L	99
59)	Chlorobenzene	16.19	112	1614447	44.31 ug/L	99
60)	Ethylbenzene	16.45	91	2680791	44.72 ug/L	98
61)	m,p-Xylene	16.71	106	1099514	46.49 ug/L	95
62)	Styrene	17.16	104	1699103	47.25 ug/L	99
63)	o-Xylene	17.26	106	1052417	45.41 ug/L	95
66)	Bromoform	16.88	173	305125	46.69 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	398581	44.18 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	117325	45.59 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.47	53	155721	51.67 ug/L	99
70)	Isopropylbenzene	17.76	105	2455061	48.88 ug/L	98
71)	Bromobenzene	18.12	156	604663	45.54 ug/L	98
72)	n-Propylbenzene	18.37	91	3067944	47.79 ug/L	98
73)	2-Chlorotoluene	18.51	91	1895002	45.42 ug/L	97
74)	4-Chlorotoluene	18.62	91	1940467	45.72 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	2166661	46.55 ug/L	98
76)	tert-Butylbenzene	19.14	119	1698137	47.82 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	2222051	46.34 ug/L	98
78)	sec-Butylbenzene	19.43	105	2630729	46.17 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	1123463	44.71 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	1111125	44.15 ug/L	99
81)	4-Isopropyltoluene	19.65	119	2109353	45.48 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	949412	42.97 ug/L	99
83)	n-Butylbenzene	20.15	91	2025855	45.75 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	55980	38.64 ug/L	97
85)	1,2,4-Trichlorobenzene	22.36	180	655637	38.75 ug/L	99
86)	Naphthalene	22.72	128	893510	41.11 ug/L	100
87)	Hexachlorobutadiene	22.76	225	291640	36.85 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	507949	37.81 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121224.D 022812.M Tue Mar 13 09:21:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

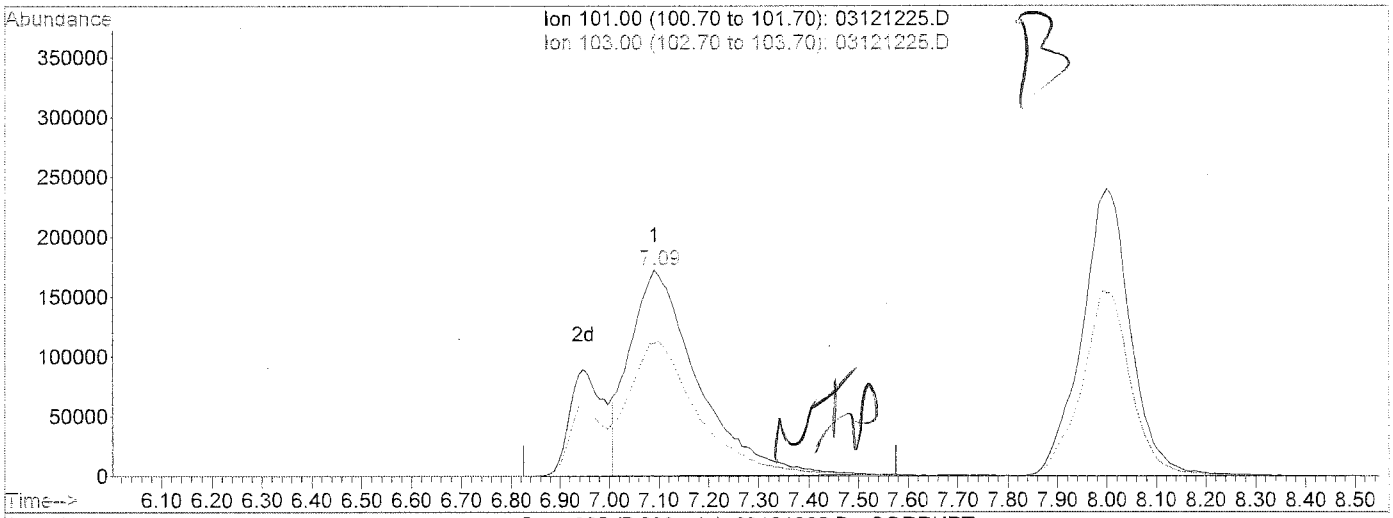
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

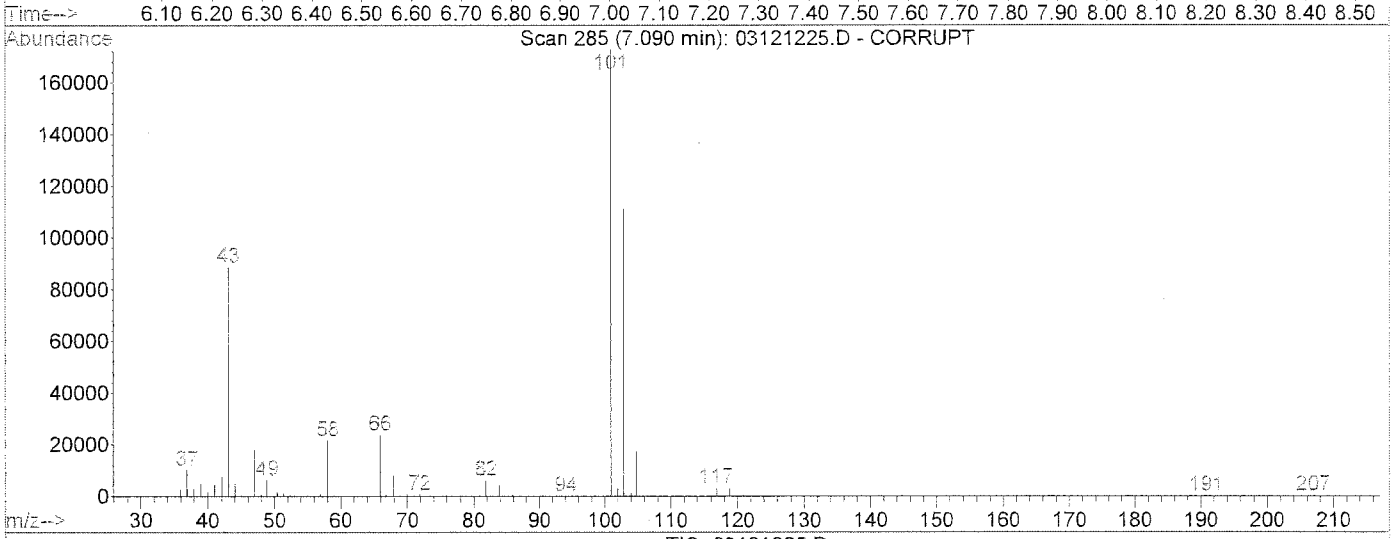


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 84.52ug/L

response 1634179

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.17
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

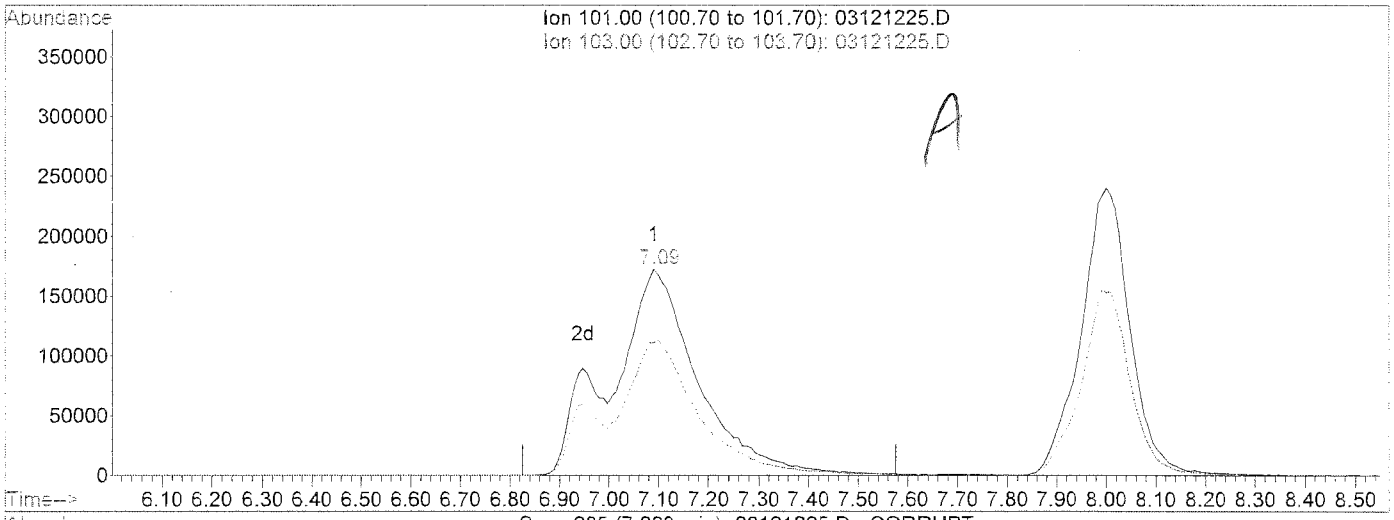
03121225.D 022812.M Tue Mar 13 09:22:19 2012

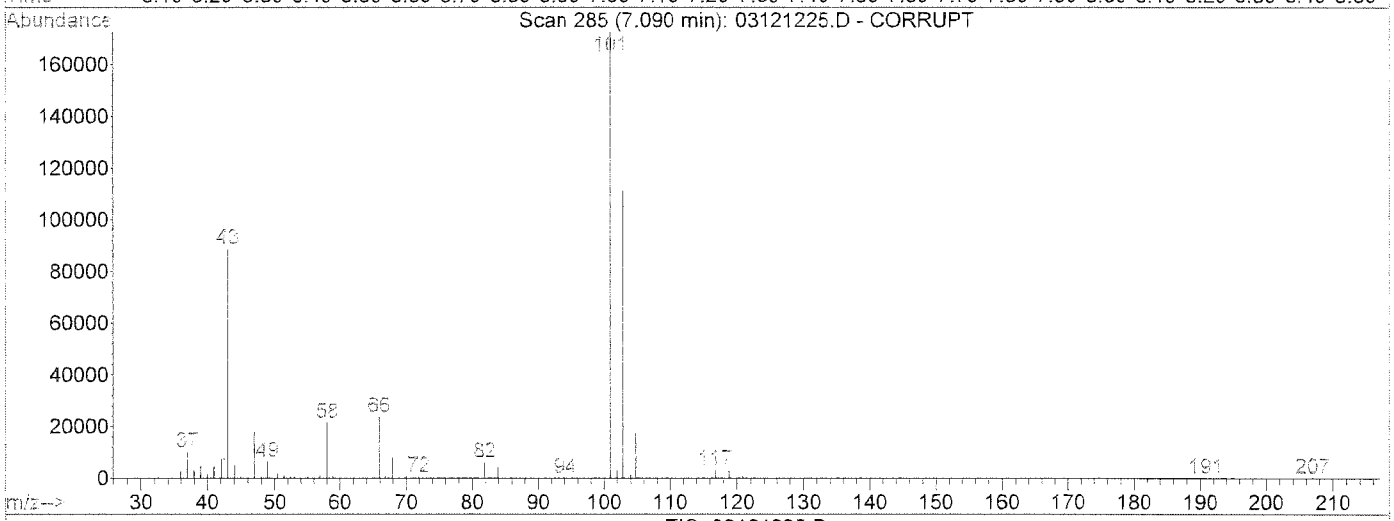
3/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 109.05ug/L m

response 2108425

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.33
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121225.D 022812.M Tue Mar 13 09:22:28 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	94067	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	526147	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	853823	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	696263	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	313009	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	307753	26.21 ug/L	~~0.01~~
Spiked Amount 25.000			Recovery =	104.84%	
50) Toluene-d8 (surr)	14.19	98	962276	24.99 ug/L	0.01
Spiked Amount 25.000			Recovery =	99.96%	
64) 4-Bromofluorobenzene (surr	17.83	95	360586	24.74 ug/L	0.02
Spiked Amount 25.000			Recovery =	98.96%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	64588	721.66 ug/L	91
3) tert-Butanol (TBA)	7.69	59	408002	440.50 ug/L	99
5) Dichlorodifluoromethane	4.89	85	2234246	97.17 ug/L	99
6) Chloromethane	5.15	50	2258803	90.11 ug/L	99
7) Vinyl Chloride	5.50	62	2194641	109.91 ug/L	100
8) 1,3-Butadiene	5.57	54	1342878	106.29 ug/L	95
9) Bromomethane	6.04	94	1541604	100.96 ug/L	100
10) Chloroethane	6.19	64	1354400	109.11 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.09	101	2108425m	109.05 ug/L	
13) Acetone	7.11	43	454007	109.64 ug/L	97
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.79	142	2370435	103.90 ug/L	98
16) 1,1-Dichloroethene	7.72	96	1496591	103.97 ug/L	98
17) Methylene Chloride	7.87	84	1683716	93.49 ug/L	99
18) Freon 113	8.00	101	1639379	107.41 ug/L	99
19) Carbon Disulfide	8.30	76	4203887	110.21 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	1687124	99.84 ug/L	97
21) MTBE	8.87	73	2872186	104.57 ug/L	99
22) 1,1-Dichloroethane	9.05	63	2977288	96.38 ug/L	99
23) Vinyl Acetate	9.20	43	2482982	98.48 ug/L	100
24) n-Hexane	9.55	86	297911	103.38 ug/L	98
25) 2-Butanone (MEK)	9.58	72	97052	113.87 ug/L #	67
26) Diisopropylether (DIPE)	9.59	45	5507827	95.92 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	1554391	95.40 ug/L	98
28) Bromochloromethane	10.00	128	620382	92.76 ug/L	96
29) Chloroform	10.05	83	2488261	84.70 ug/L	98
30) 2,2-Dichloropropane	10.16	77	1452856	94.43 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	3808314	101.30 ug/L	100
33) Tetrahydrofuran	10.47	72	72074	97.07 ug/L	95
34) 1,2-Dichloroethane	10.88	62	1630673	85.24 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	2038914	87.78 ug/L	100
36) (TAME) tert-Amyl methyl et	11.72	73	2665391	105.16 ug/L	98
38) 1,1-Dichloropropene	11.25	75	1869229	89.45 ug/L	99
39) Carbon Tetrachloride	11.49	117	1814717	84.96 ug/L	100
40) Benzene	11.54	78	4560182	83.40 ug/L	100

(#) = qualifier out of range (m) = manual integration

03121225.D 022812.M Tue Mar 13 09:23:02 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

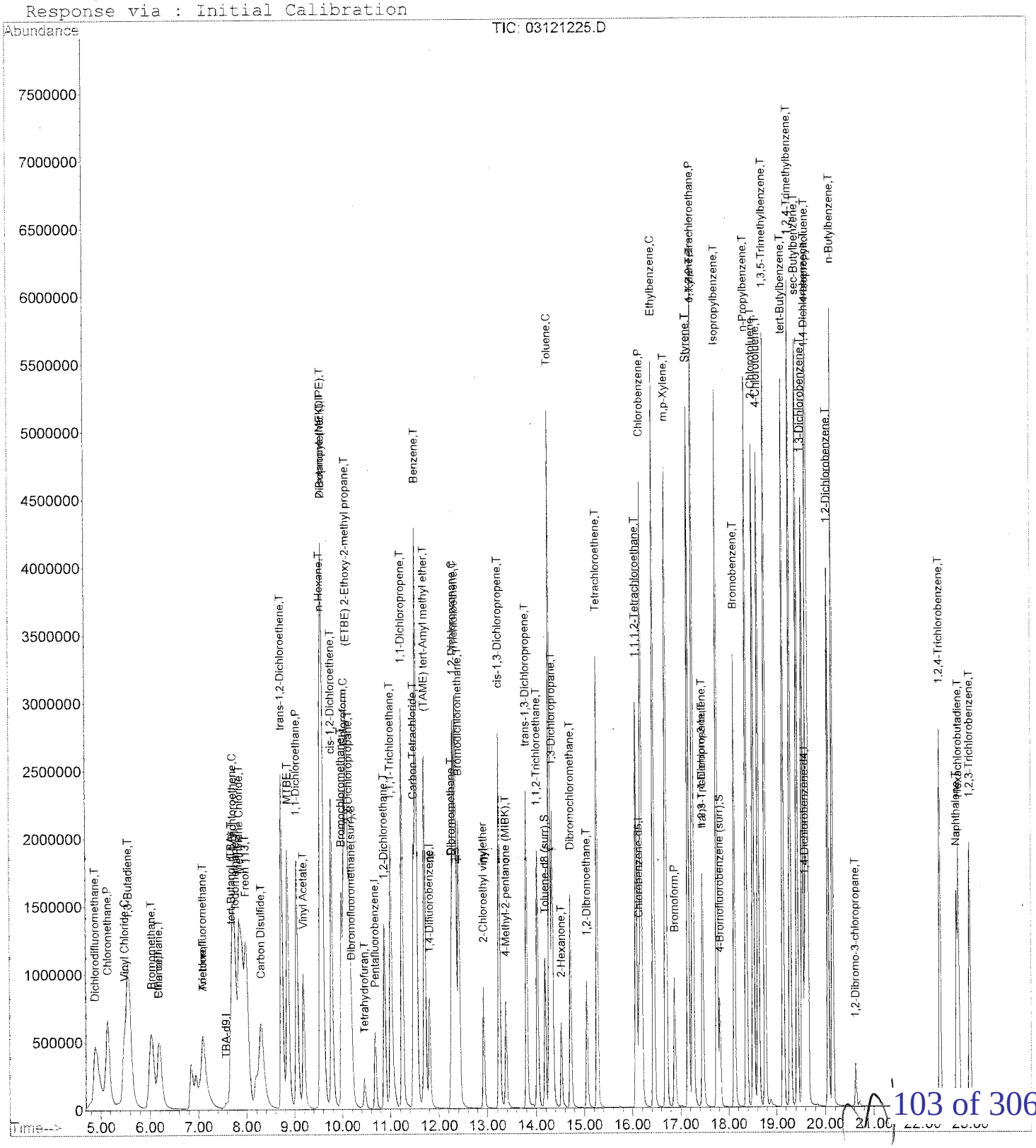
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	690752	85.69 ug/L	99
42)	1,2-Dichloropropane	12.31	63	1283808	85.96 ug/L	97
43)	Trichloroethene	12.36	95	1354042	83.06 ug/L	98
44)	Bromodichloromethane	12.42	83	1781553	82.17 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	465769	98.64 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	1929971	93.34 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	843667	95.52 ug/L	98
48)	trans-1,3-Dichloropropene	13.81	75	1595199	93.90 ug/L	97
49)	1,1,2-Trichloroethane	14.03	97	832358	84.84 ug/L	95
51)	Toluene	14.29	92	2939931	86.56 ug/L	96
53)	1,3-Dichloropropane	14.35	76	1454646	87.25 ug/L	99
54)	2-Hexanone	14.53	43	643669	109.26 ug/L	95
55)	Dibromochloromethane	14.73	129	1094089	90.20 ug/L	98
56)	1,2-Dibromoethane	15.06	107	877357	89.00 ug/L	98
57)	Tetrachloroethene	15.27	164	1002509	84.98 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	1132266	87.48 ug/L	99
59)	Chlorobenzene	16.19	112	3184850	86.33 ug/L	98
60)	Ethylbenzene	16.44	91	5215321	85.93 ug/L	97
61)	m,p-Xylene	16.71	106	2178411	90.97 ug/L	93
62)	Styrene	17.16	104	3350551	92.03 ug/L	98
63)	o-Xylene	17.26	106	2073146	88.34 ug/L	93
66)	Bromoform	16.89	173	621242	97.74 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	754227	85.95 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	233597	93.32 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.46	53	309682	105.65 ug/L	97
70)	Isopropylbenzene	17.76	105	4731190	96.85 ug/L	97
71)	Bromobenzene	18.12	156	1190012	92.16 ug/L	98
72)	n-Propylbenzene	18.37	91	5814099	93.12 ug/L	96
73)	2-Chlorotoluene	18.52	91	3709452	91.41 ug/L	97
74)	4-Chlorotoluene	18.62	91	3748227	90.81 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	4198069	92.74 ug/L	96
76)	tert-Butylbenzene	19.15	119	3270817	94.71 ug/L	96
77)	1,2,4-Trimethylbenzene	19.29	105	4240200	90.93 ug/L	97
78)	sec-Butylbenzene	19.43	105	5007012	90.35 ug/L	97
79)	1,3-Dichlorobenzene	19.54	146	2204189	90.20 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	2137550	87.32 ug/L	99
81)	4-Isopropyltoluene	19.66	119	4023962	89.22 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	1834639	85.37 ug/L	99
83)	n-Butylbenzene	20.15	91	3763246	87.38 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.62	75	100034	70.99 ug/L	99
85)	1,2,4-Trichlorobenzene	22.36	180	1224059	74.38 ug/L	99
86)	Naphthalene	22.71	128	1654160	78.25 ug/L	100
87)	Hexachlorobutadiene	22.76	225	553037	71.84 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	921072	70.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121225.D 022812.M Tue Mar 13 09:23:03 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

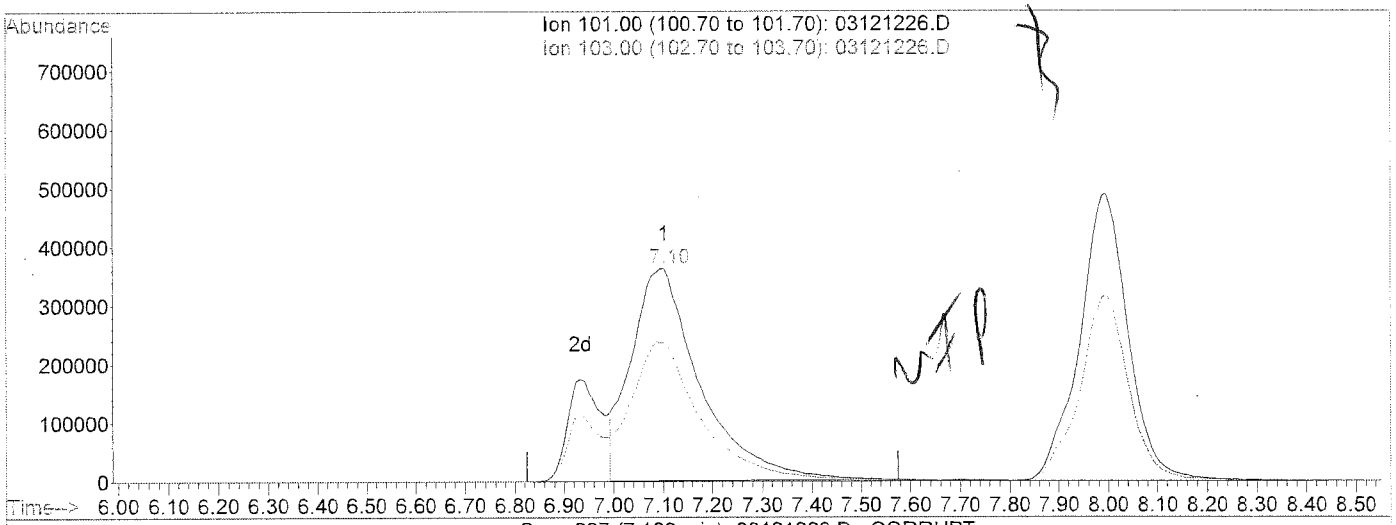
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

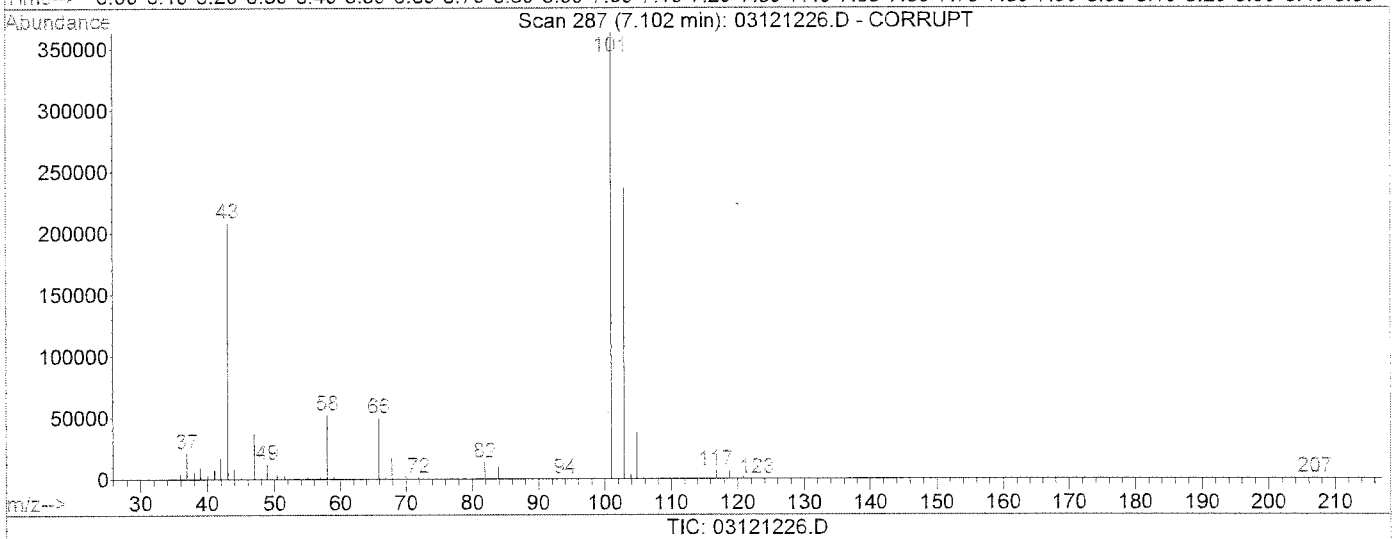


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 172.90ug/L

response 3518456

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.08
0.00	0.00	0.00
0.00	0.00	0.00

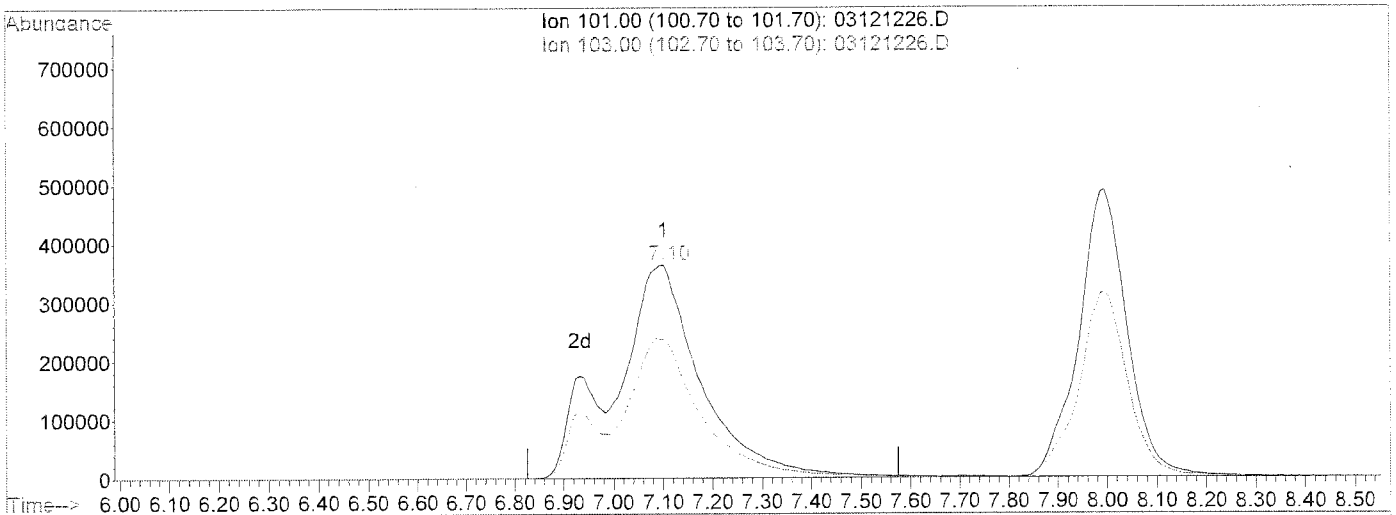
3/14/12

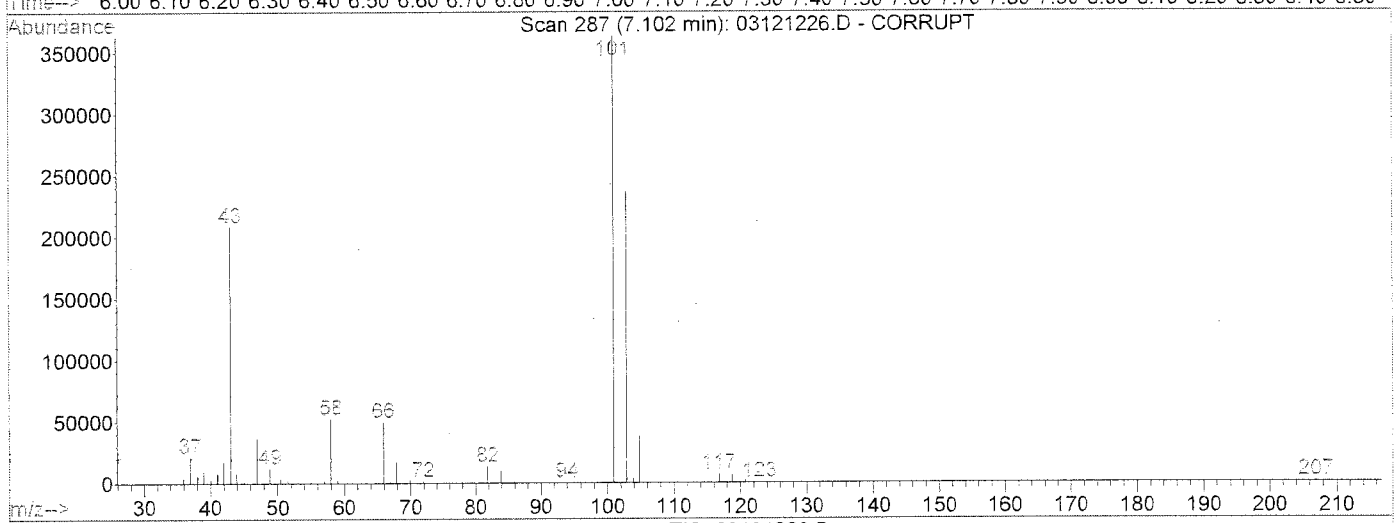
03121226.D 022812.M Tue Mar 13 09:23:29 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 217.76ug/L m

response 4431358

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.21
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121226.D 022812.M Tue Mar 13 09:23:37 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	96595	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	553774	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	904577	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	760529	25.00 ug/L	0.03
65) 1,4-Dichlorobenzene-d4	19.59	152	338639	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311262	25.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.76%	
50) Toluene-d8 (surr)	14.19	98	1007514	24.69 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.76%	
64) 4-Bromofluorobenzene (surr	17.83	95	363358	22.82 ug/L	0.03
Spiked Amount 25.000			Recovery	= 91.28%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	124917	1359.21 ug/L #	43
3) tert-Butanol (TBA)	7.69	59	801164	842.34 ug/L	99
5) Dichlorodifluoromethane	4.88	85	4066542	168.04 ug/L	98
6) Chloromethane	5.15	50	3761172	142.55 ug/L	99
7) Vinyl Chloride	5.51	62	4112386	195.68 ug/L	100
8) 1,3-Butadiene	5.58	54	2566419	193.00 ug/L	92
9) Bromomethane	6.04	94	3080152	191.66 ug/L	99
10) Chloroethane	6.20	64	2661085	203.68 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.10	101	4431358m	217.76 ug/L	
13) Acetone	7.10	43	954014	218.90 ug/L	97
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	4876597	203.09 ug/L	97
16) 1,1-Dichloroethene	7.73	96	3052109	201.45 ug/L	95
17) Methylene Chloride	7.86	84	3361167	177.31 ug/L	98
18) Freon 113	7.99	101	3315720	206.40 ug/L	100
19) Carbon Disulfide	8.31	76	8694500	216.57 ug/L #	89
20) trans-1,2-Dichloroethene	8.73	96	3283795	184.62 ug/L	96
21) MTBE	8.86	73	5463773	189.01 ug/L	99
22) 1,1-Dichloroethane	9.05	63	5526084	169.97 ug/L	98
23) Vinyl Acetate	9.19	43	4583088	172.71 ug/L	100
24) n-Hexane	9.55	86	604517	199.32 ug/L	95
25) 2-Butanone (MEK)	9.59	72	203308	226.63 ug/L #	44
26) Diisopropylether (DIPE)	9.60	45	10600518	175.40 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	3158561	184.19 ug/L	96
28) Bromochloromethane	9.99	128	1292731	183.65 ug/L	92
29) Chloroform	10.04	83	4936568	159.65 ug/L	98
30) 2,2-Dichloropropane	10.15	77	2814169	173.79 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	7605392	192.21 ug/L	99
33) Tetrahydrofuran	10.47	72	160376	205.21 ug/L	93
34) 1,2-Dichloroethane	10.89	62	3292179	163.50 ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	4122428	168.62 ug/L	99
36) (TAME) tert-Amyl methyl et	11.71	73	5447757	204.22 ug/L	97
38) 1,1-Dichloropropene	11.25	75	3700844	167.17 ug/L	97
39) Carbon Tetrachloride	11.48	117	3674695	162.39 ug/L	99
40) Benzene	11.54	78	8711676	150.38 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 022812.M Tue Mar 13 09:24:03 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

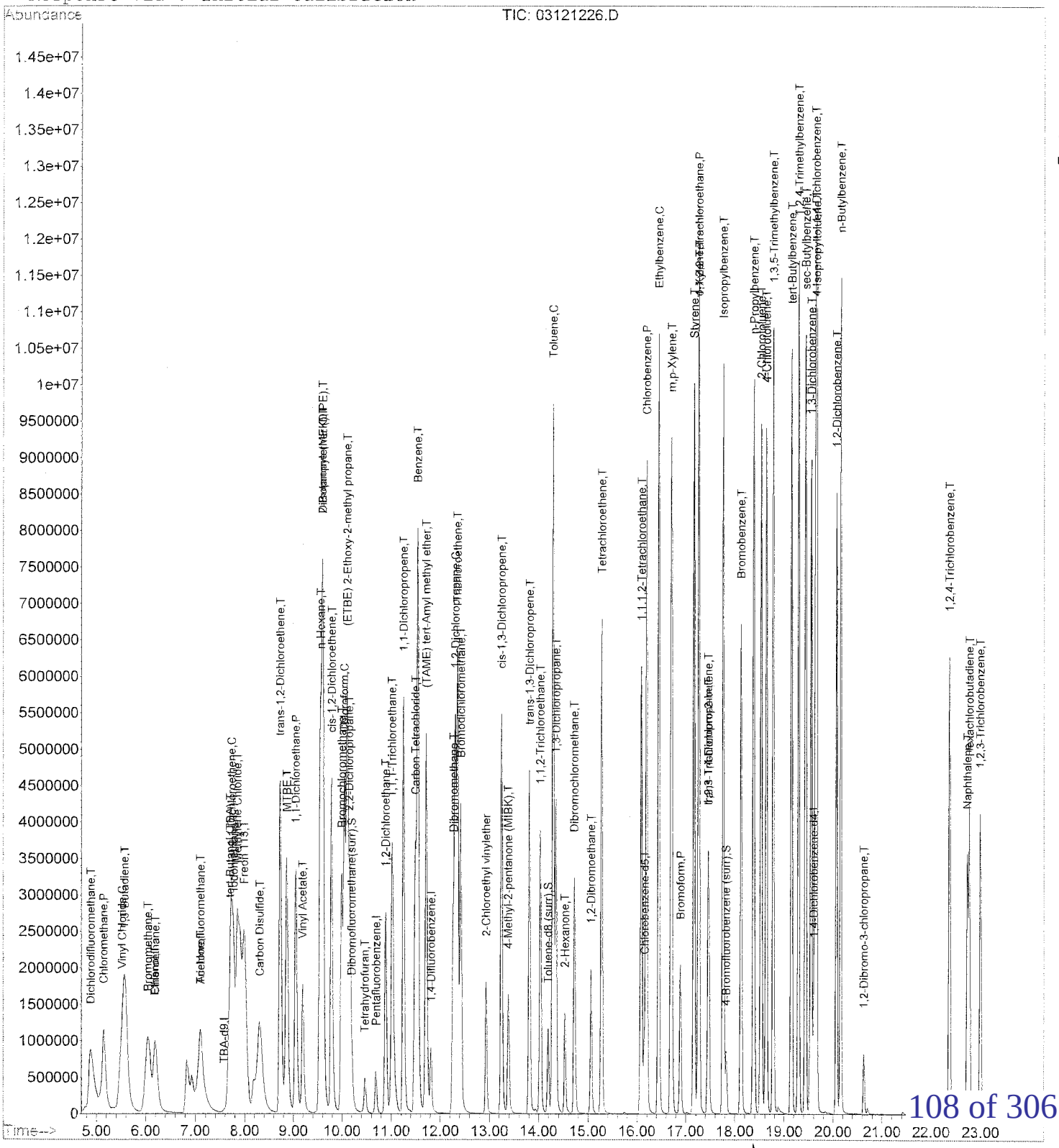
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	1427822	167.19 ug/L		98
42)	1,2-Dichloropropane	12.31	63	2515722	158.99 ug/L		96
43)	Trichloroethene	12.35	95	2719453	157.45 ug/L		96
44)	Bromodichloromethane	12.42	83	3577590	155.75 ug/L		99
45)	2-Chloroethyl vinylether	12.93	63	997446	199.38 ug/L		98
46)	cis-1,3-Dichloropropene	13.25	75	3902432	178.15 ug/L		96
47)	4-Methyl-2-pentanone (MIBK	13.38	43	1800220	192.39 ug/L		97
48)	trans-1,3-Dichloropropene	13.81	75	3305503	183.65 ug/L		95
49)	1,1,2-Trichloroethane	14.03	97	1754819	168.83 ug/L		95
51)	Toluene	14.29	92	5813404	161.56 ug/L		93
53)	1,3-Dichloropropane	14.35	76	2978597	163.56 ug/L		99
54)	2-Hexanone	14.53	43	1441929	224.09 ug/L		95
55)	Dibromochloromethane	14.72	129	2318623	174.99 ug/L		99
56)	1,2-Dibromoethane	15.06	107	1897875	176.25 ug/L		98
57)	Tetrachloroethene	15.28	164	2114351	164.07 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.09	131	2401120	169.84 ug/L		99
59)	Chlorobenzene	16.19	112	6441117	159.84 ug/L		97
60)	Ethylbenzene	16.45	91	10122845	152.69 ug/L		92
61)	m,p-Xylene	16.71	106	4487119	171.55 ug/L		89
62)	Styrene	17.16	104	6784462	170.60 ug/L		98
63)	o-Xylene	17.27	106	4197562	163.75 ug/L	#	86
66)	Bromoform	16.89	173	1346828	195.87 ug/L		99
67)	1,1,2,2-Tetrachloroethane	17.26	83	1503458	158.37 ug/L		99
68)	1,2,3-Trichloropropane	17.46	110	502774	185.66 ug/L		98
69)	trans-1,4-Dichloro-2-buten	17.47	53	640047	201.83 ug/L		94
70)	Isopropylbenzene	17.76	105	9265717	175.33 ug/L		93
71)	Bromobenzene	18.12	156	2486757	178.01 ug/L		98
72)	n-Propylbenzene	18.38	91	10978924	162.53 ug/L	#	90
73)	2-Chlorotoluene	18.52	91	7185794	163.67 ug/L		92
74)	4-Chlorotoluene	18.62	91	7248392	162.32 ug/L		92
75)	1,3,5-Trimethylbenzene	18.77	105	8024457	163.85 ug/L		91
76)	tert-Butylbenzene	19.15	119	6685641	178.93 ug/L		94
77)	1,2,4-Trimethylbenzene	19.30	105	8304938	164.62 ug/L		92
78)	sec-Butylbenzene	19.44	105	9628259	160.59 ug/L		92
79)	1,3-Dichlorobenzene	19.55	146	4502973	170.32 ug/L		98
80)	1,4-Dichlorobenzene	19.63	146	4440770	167.68 ug/L		100
81)	4-Isopropyltoluene	19.66	119	7915872	162.22 ug/L		96
82)	1,2-Dichlorobenzene	20.06	146	3896336	167.58 ug/L		98
83)	n-Butylbenzene	20.16	91	7335423	157.44 ug/L		94
84)	1,2-Dibromo-3-chloropropan	20.63	75	244755	160.54 ug/L		97
85)	1,2,4-Trichlorobenzene	22.36	180	2808218	157.73 ug/L		99
86)	Naphthalene	22.72	128	3714707	162.42 ug/L		100
87)	Hexachlorobutadiene	22.76	225	1231399	147.86 ug/L		98
88)	1,2,3-Trichlorobenzene	23.00	180	1980703	140.11 ug/L		99

(#) = qualifier out of range (m) = manual integration
03121226.D 022812.M Tue Mar 13 09:24:03 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

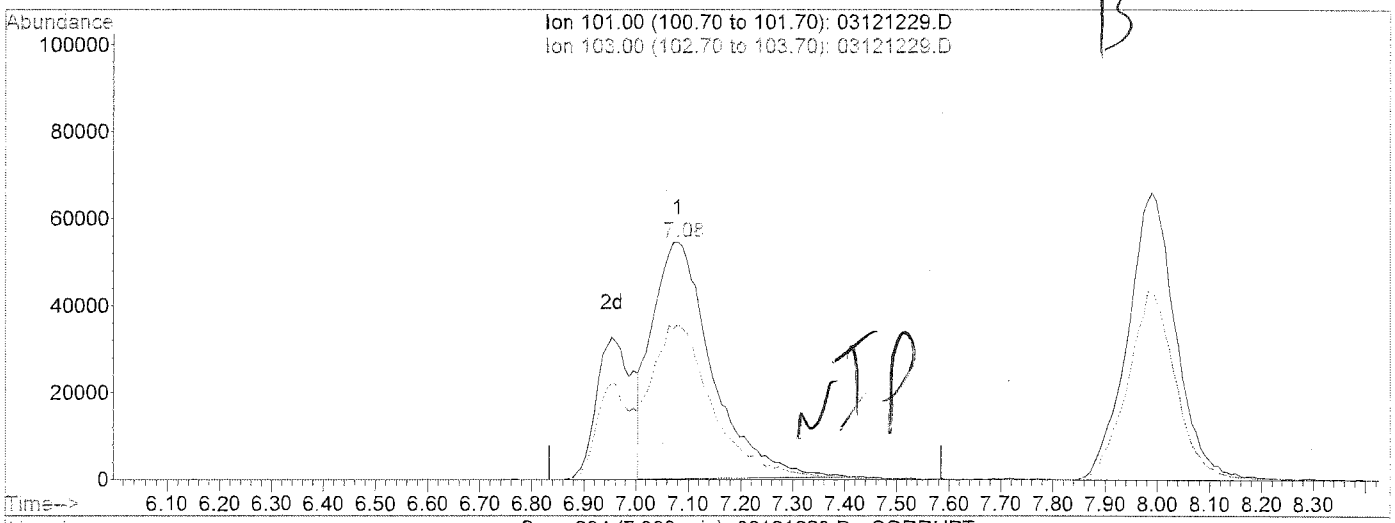


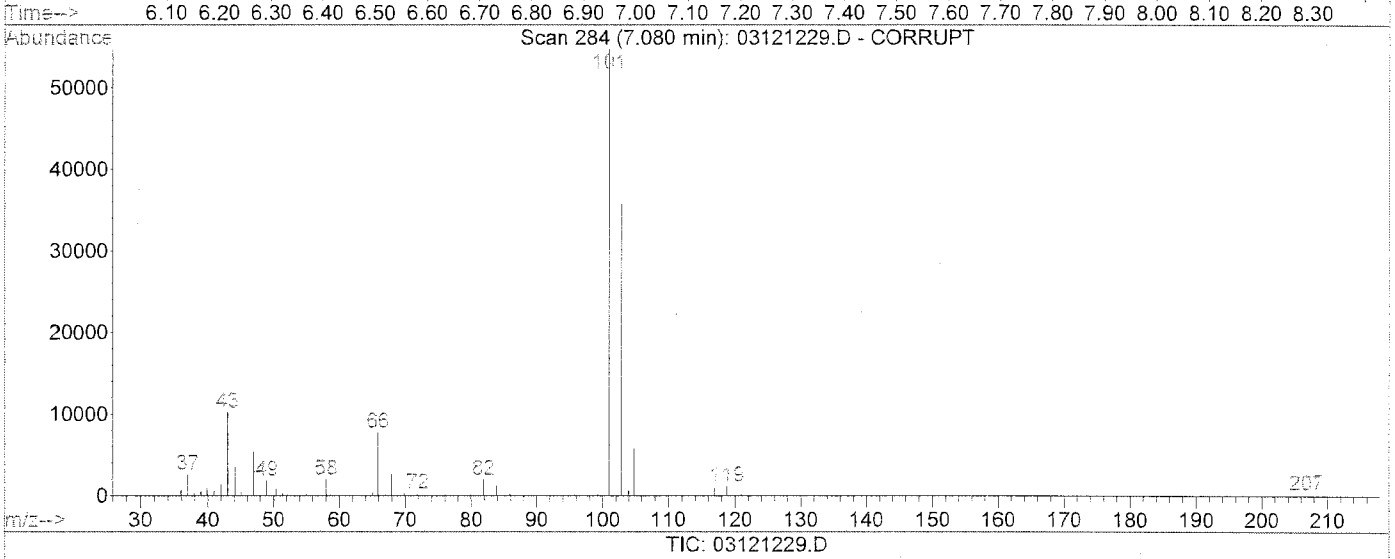
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





TIC: 03121229.D

(12) Trichlorofluoromethane (T)

3/14/12

7.08min 22.22ug/L

response 432525

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.58
0.00	0.00	0.00
0.00	0.00	0.00

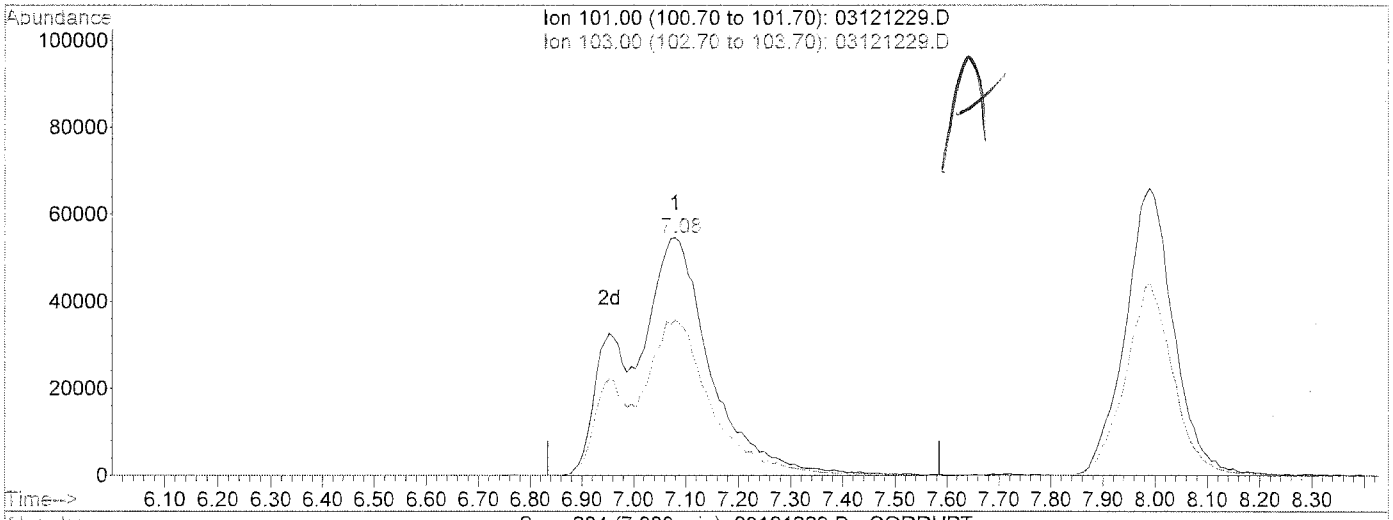
3/14/12

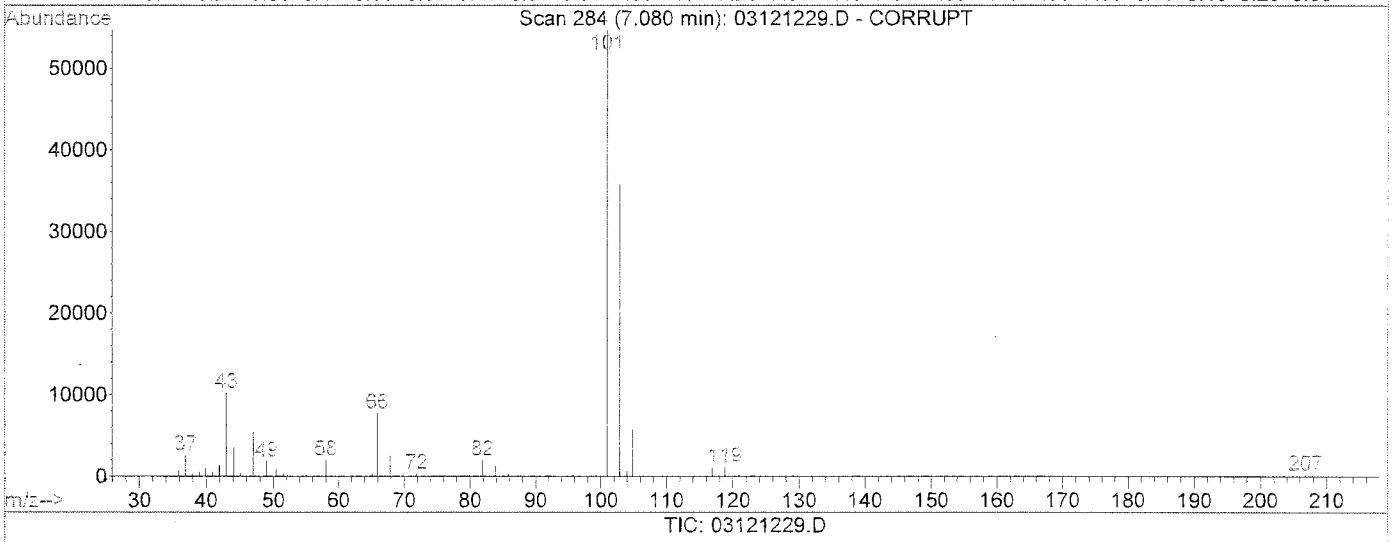
03121229.D 031212.M Wed Mar 14 10:31:04 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.08min 30.94ug/L m

response 602255

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.41
0.00	0.00	0.00
0.00	0.00	0.00

03121229.D 031212.M Wed Mar 14 10:31:11 2012

8260 CCV/ICV Custom Report

Data File Name	03121229.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031212\
Operator	ms
Date Acquired	3/12/2012 11:22
Acq. Method File	8260C
Sample Name	25 PPB SS/ICV
Instrument Name	GCMS9

✓ 3/14/12

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	93737	80167	40083.5	160334	TRUE
Pentafluorobenzene	520986	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	838665	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	715040	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	330279	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	214.56	250	86%	36%	150%	TRUE
tert-Butanol (TBA)	126.92	125	102%	70%	134%	TRUE
Dichlorodifluoromethane	28.72	25	115%	60%	140%	TRUE
Chloromethane	28.67	25	115%	48%	144%	TRUE
Vinyl Chloride	27.76	25	111%	80%	120%	TRUE
1,3-Butadiene	38.26	25	153%	50%	141%	FALSE NT
Bromomethane	25.92	25	104%	40%	144%	TRUE
Chloroethane	26.47	25	106%	60%	132%	TRUE
Acrolein	0.00	25	0%	80%	120%	FALSE NT
Trichlorofluoromethane	30.94	25	124%	68%	136%	TRUE
Acetone	18.92	25	76%	12%	150%	TRUE
Acrylonitrile	0.00	25	0%	80%	120%	FALSE NT
Iodomethane	28.57	25	114%	40%	150%	TRUE
1,1-Dichloroethene	26.30	25	105%	80%	120%	TRUE
Methylene Chloride	23.95	25	96%	68%	128%	TRUE
Freon 113	25.13	25	101%	76%	124%	TRUE
Carbon Disulfide	26.72	25	107%	64%	136%	TRUE
trans-1,2-Dichloroethene	27.41	25	110%	76%	120%	TRUE
MTBE	27.09	25	108%	64%	140%	TRUE
1,1-Dichloroethane	25.50	25	102%	72%	124%	TRUE
Vinyl Acetate	28.06	25	112%	48%	150%	TRUE
n-Hexane	23.02	25	92%	56%	150%	TRUE
2-Butanone (MEK)	22.36	25	89%	44%	150%	TRUE
Diisopropylether (DIPE)	26.57	25	106%	72%	132%	TRUE
cis-1,2-Dichloroethene	28.01	25	112%	72%	128%	TRUE
Bromochloromethane	27.50	25	110%	72%	132%	TRUE
Chloroform	24.71	25	99%	80%	120%	TRUE
2,2-Dichloropropane	19.25	25	77%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	26.16	25	105%	72%	140%	TRUE
Dibromofluoromethane(surr)	24.31	25	97%	80%	120%	TRUE
Tetrahydrofuran	27.53	25	110%	64%	139%	TRUE
1,2-Dichloroethane	25.79	25	103%	68%	136%	TRUE

1,1,1-Trichloroethane	25.14	25	101%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	29.14	25	117%	68%	140%	TRUE
1,1-Dichloropropene	27.63	25	111%	76%	128%	TRUE
Carbon Tetrachloride	25.93	25	104%	72%	136%	TRUE
Benzene	27.70	25	111%	76%	120%	TRUE
Dibromomethane	26.57	25	106%	72%	132%	TRUE
1,2-Dichloropropane	26.89	25	108%	80%	120%	TRUE
Trichloroethene	26.66	25	107%	80%	120%	TRUE
Bromodichloromethane	25.84	25	103%	76%	128%	TRUE
2-Chloroethyl vinylether	28.94	25	116%	10%	150%	TRUE
cis-1,3-Dichloropropene	28.75	25	115%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	29.11	25	116%	60%	144%	TRUE
trans-1,3-Dichloropropene	25.45	25	102%	68%	140%	TRUE
1,1,2-Trichloroethane	26.61	25	106%	72%	132%	TRUE
Toluene-d8 (surr)	25.55	25	102%	80%	120%	TRUE
Toluene	28.36	25	113%	80%	120%	TRUE
1,3-Dichloropropane	26.40	25	106%	80%	124%	TRUE
2-Hexanone	24.87	25	99%	52%	150%	TRUE
Dibromochloromethane	26.41	25	106%	80%	128%	TRUE
1,2-Dibromoethane	26.62	25	106%	80%	128%	TRUE
Tetrachloroethene	25.71	25	103%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	26.34	25	105%	76%	124%	TRUE
Chlorobenzene	25.61	25	102%	80%	120%	TRUE
Ethylbenzene	28.31	25	113%	80%	120%	TRUE
m,p-Xylene	28.08	25	112%	80%	120%	TRUE
Styrene	28.43	25	114%	84%	124%	TRUE
o-Xylene	27.70	25	111%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	24.19	25	97%	80%	120%	TRUE
Bromoform	27.49	25	110%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	27.05	25	108%	68%	132%	TRUE
1,2,3-Trichloropropane	27.90	25	112%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	21.89	25	88%	48%	138%	TRUE
Isopropylbenzene	31.83	25	127%	76%	132%	TRUE
Bromobenzene	28.08	25	112%	76%	128%	TRUE
n-Propylbenzene	29.52	25	118%	76%	132%	TRUE
2-Chlorotoluene	26.77	25	107%	80%	124%	TRUE
4-Chlorotoluene	27.17	25	109%	80%	124%	TRUE
1,3,5-Trimethylbenzene	28.01	25	112%	80%	128%	TRUE
tert-Butylbenzene	29.98	25	120%	76%	132%	TRUE
1,2,4-Trimethylbenzene	28.07	25	112%	80%	128%	TRUE
sec-Butylbenzene	28.03	25	112%	80%	128%	TRUE
1,3-Dichlorobenzene	27.20	25	109%	80%	124%	TRUE
1,4-Dichlorobenzene	26.44	25	106%	76%	120%	TRUE
4-Isopropyltoluene	27.04	25	108%	80%	128%	TRUE
1,2-Dichlorobenzene	28.20	25	113%	80%	124%	TRUE
n-Butylbenzene	27.77	25	111%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	28.95	25	116%	64%	128%	TRUE
1,2,4-Trichlorobenzene	31.91	25	128%	76%	128%	TRUE
Naphthalene	32.80	25	131%	68%	136%	TRUE
Hexachlorobutadiene	28.77	25	115%	76%	132%	TRUE
1,2,3-Trichlorobenzene	32.12	25	128%	72%	128%	~~FALSE~~ TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93737	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	520986	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	838665	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	715040	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	330279	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	305270	24.31 ug/L	0.00
Spiked Amount 25.000			Recovery = 97.24%		
50) Toluene-d8 (surr)	14.19	98	959447	25.55 ug/L	0.00
Spiked Amount 25.000			Recovery = 102.20%		
64) 4-Bromofluorobenzene (surr	17.82	95	354185	24.19 ug/L	0.00
Spiked Amount 25.000			Recovery = 96.76%		

Target Compounds					Qvalue
2) Ethanol	6.18	45	12575	214.56 ug/L	96
3) tert-Butanol (TBA)	7.69	59	103807	126.92 ug/L	99
5) Dichlorodifluoromethane	4.90	85	689221	28.72 ug/L	98
6) Chloromethane	5.12	50	790060	28.67 ug/L	99
7) Vinyl Chloride	5.47	62	645129	27.76 ug/L	99
8) 1,3-Butadiene	5.56	54	525961	38.26 ug/L	97
9) Bromomethane	6.00	94	436762	25.92 ug/L	99
10) Chloroethane	6.19	64	361685	26.47 ug/L	98
12) Trichlorofluoromethane	7.08	101	602255m	30.94 ug/L	
13) Acetone	7.10	43	80262	18.92 ug/L	96
15) Iodomethane	7.77	142	688065	28.57 ug/L	99
16) 1,1-Dichloroethene	7.71	96	399122	26.30 ug/L	98
17) Methylene Chloride	7.86	84	444043	23.95 ug/L	97
18) Freon 113	7.99	101	424178	25.13 ug/L	99
19) Carbon Disulfide	8.28	76	1111965	26.72 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	475236	27.41 ug/L	98
21) MTBE	8.87	73	707480	27.09 ug/L	100
22) 1,1-Dichloroethane	9.05	63	797191	25.50 ug/L	99
23) Vinyl Acetate	9.20	43	624961	28.06 ug/L	100
24) n-Hexane	9.55	86	68460	23.02 ug/L	98
25) 2-Butanone (MEK)	9.58	72	21359	22.36 ug/L #	87
26) Diisopropylether (DIPE)	9.59	45	1534846	26.57 ug/L	93
27) cis-1,2-Dichloroethene	9.78	96	441081	28.01 ug/L	98
28) Bromochloromethane	10.00	128	175845	27.50 ug/L	95
29) Chloroform	10.05	83	679651	24.71 ug/L	99
30) 2,2-Dichloropropane	10.16	77	314435	19.25 ug/L	95
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	937548	26.16 ug/L	99
33) Tetrahydrofuran	10.47	72	18303	27.53 ug/L	94
34) 1,2-Dichloroethane	10.89	62	447461	25.79 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	542430	25.14 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	715290	29.14 ug/L	97
38) 1,1-Dichloropropene	11.25	75	502491	27.63 ug/L	99
39) Carbon Tetrachloride	11.49	117	487815	25.93 ug/L	99
40) Benzene	11.54	78	1336314	27.70 ug/L	97
41) Dibromomethane	12.26	93	186040	26.57 ug/L	98
42) 1,2-Dichloropropane	12.30	63	366812	26.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121229.D 031212.M Wed Mar 14 10:31:46 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

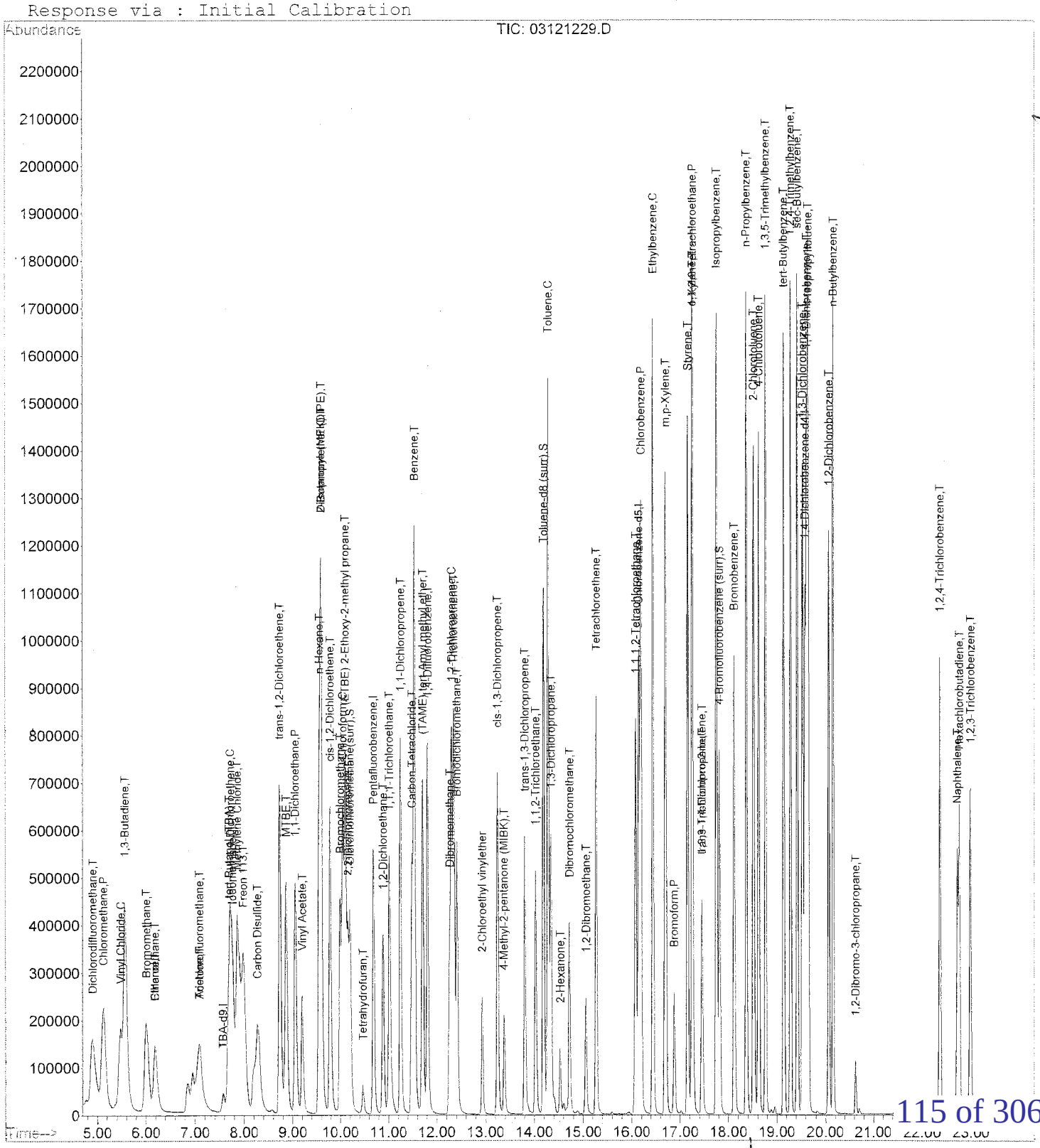
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.36	95	377677	26.66 ug/L	99
44)	Bromodichloromethane	12.41	83	472986	25.84 ug/L	100
45)	2-Chloroethyl vinylether	12.93	63	127173	28.94 ug/L	98
46)	cis-1,3-Dichloropropene	13.24	75	505884	28.75 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	220162	29.11 ug/L	98
48)	trans-1,3-Dichloropropene	13.80	75	390856	25.45 ug/L	99
49)	1,1,2-Trichloroethane	14.02	97	223328	26.61 ug/L	99
51)	Toluene	14.29	92	846411	28.36 ug/L	99
53)	1,3-Dichloropropane	14.34	76	398145	26.40 ug/L	100
54)	2-Hexanone	14.53	43	142245	24.87 ug/L	97
55)	Dibromochloromethane	14.72	129	286092	26.41 ug/L	98
56)	1,2-Dibromoethane	15.06	107	231012	26.62 ug/L	98
57)	Tetrachloroethene	15.27	164	270285	25.71 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	310802	26.34 ug/L	98
59)	Chlorobenzene	16.19	112	899826	25.61 ug/L	99
60)	Ethylbenzene	16.44	91	1563720	28.31 ug/L	100
61)	m,p-Xylene	16.70	106	611774	28.08 ug/L	97
62)	Styrene	17.16	104	949142	28.43 ug/L	98
63)	o-Xylene	17.26	106	598144	27.70 ug/L	98
66)	Bromoform	16.88	173	160937	27.49 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	235898	27.05 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	66215	27.90 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.46	53	65039	21.89 ug/L	95
70)	Isopropylbenzene	17.76	105	1510478	31.83 ug/L	100
71)	Bromobenzene	18.12	156	340410	28.08 ug/L	98
72)	n-Propylbenzene	18.36	91	1795047	29.52 ug/L	99
73)	2-Chlorotoluene	18.52	91	1065909	26.77 ug/L	98
74)	4-Chlorotoluene	18.62	91	1086923	27.17 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	1235325	28.01 ug/L	100
76)	tert-Butylbenzene	19.15	119	1003381	29.98 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1257259	28.07 ug/L	99
78)	sec-Butylbenzene	19.43	105	1537594	28.03 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	654194	27.20 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	635328	26.44 ug/L	100
81)	4-Isopropyltoluene	19.65	119	1208517	27.04 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	567253	28.20 ug/L	98
83)	n-Butylbenzene	20.15	91	1163147	27.77 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.62	75	33263	28.95 ug/L	92
85)	1,2,4-Trichlorobenzene	22.36	180	421050	31.91 ug/L	98
86)	Naphthalene	22.71	128	580147	32.80 ug/L	99
87)	Hexachlorobutadiene	22.75	225	193530	28.77 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	327917	32.12 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121229.D 031212.M Wed Mar 14 10:31:46 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

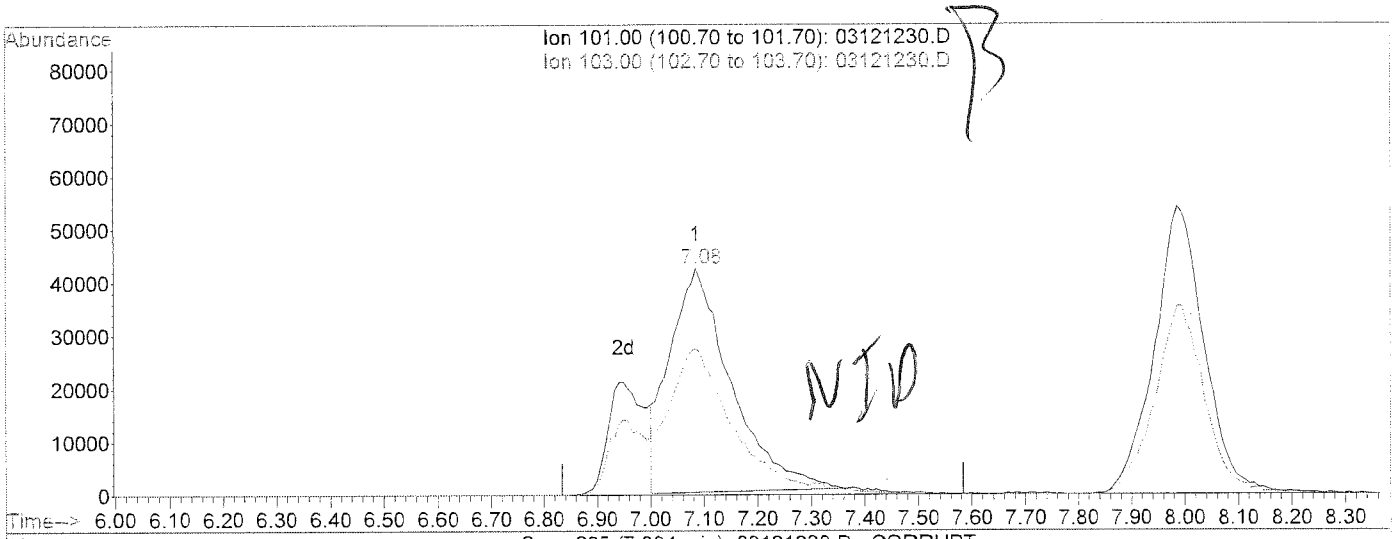
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

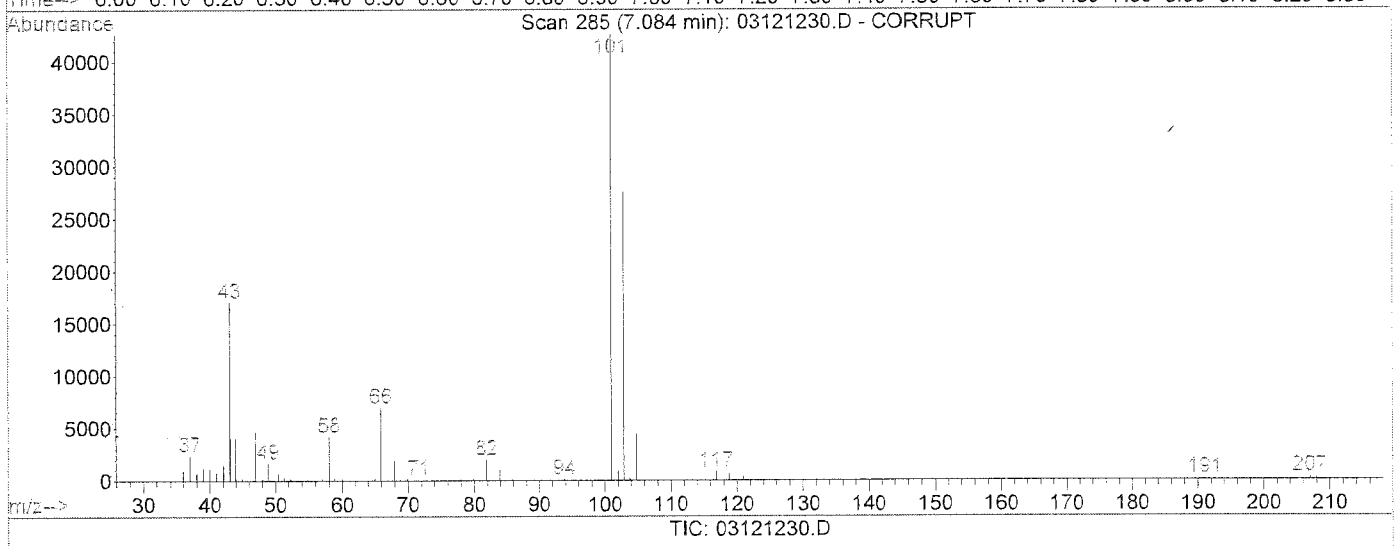


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121230.D

(12) Trichlorofluoromethane (T)

7.08min 17.26ug/L

response 337730

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.24
0.00	0.00	0.00
0.00	0.00	0.00

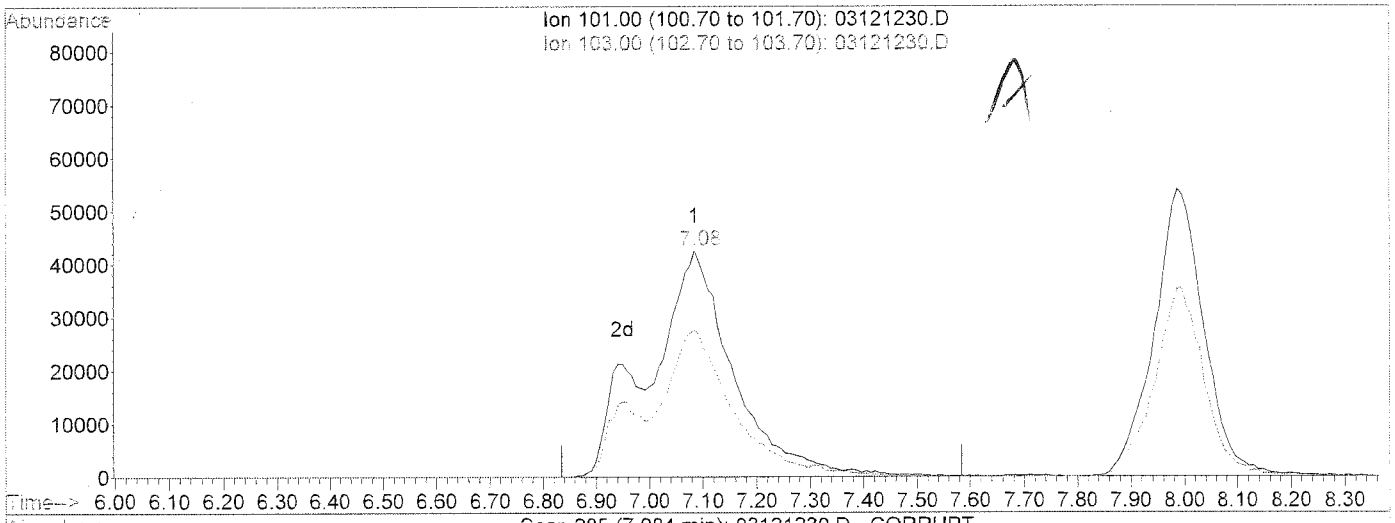
✓ 3/14/12

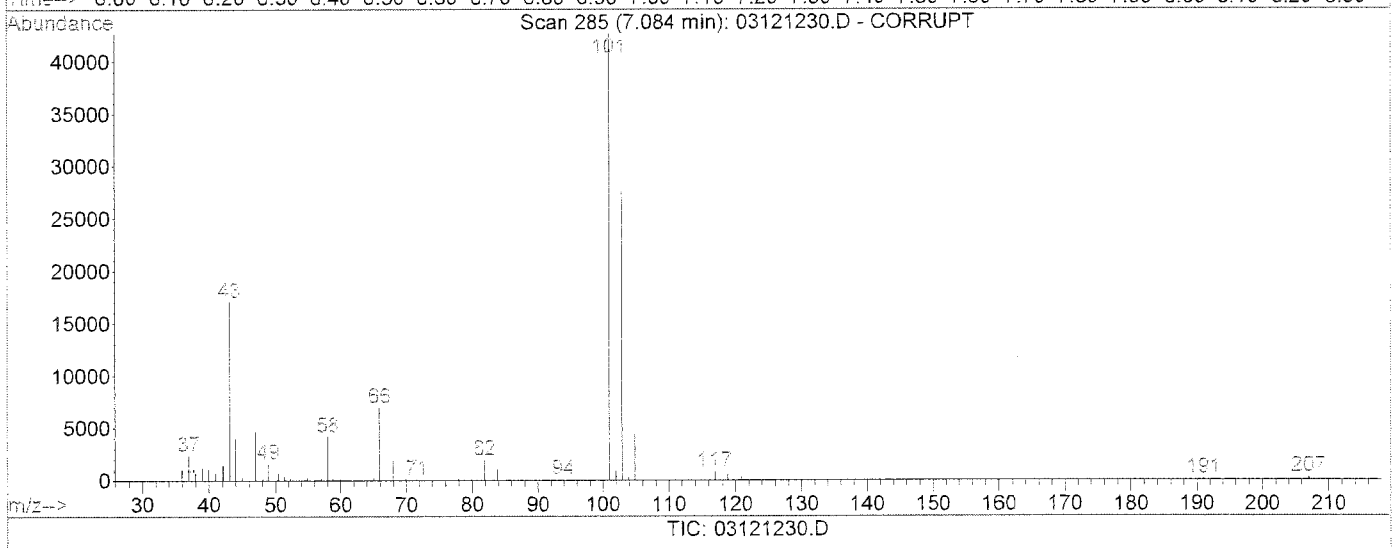
03121230.D 031212.M Wed Mar 14 10:31:57 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

✓3/14/12

7.08min 23.72ug/L m

response 463921

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.73
0.00	0.00	0.00
0.00	0.00	0.00

03121230.D 031212.M Wed Mar 14 10:32:04 2012

8260 CCV/ICV Custom Report

Data File Name	03121230.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031212\
Operator	ms
Date Acquired	3/12/2012 11:54
Acq. Method File	8260C
Sample Name	20 PPB SS/ICV
Instrument Name	GCMS9

✓ 3/14/12

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	95571	80167	40083.5	160334	TRUE
Pentafluorobenzene	523579	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	844938	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	717836	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	333924	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	290.35	200	145.18	36	150	TRUE
tert-Butanol (TBA)	125.13	100	125.13	70	134	TRUE
Dichlorodifluoromethane	23.04	20	115.18	60	140	TRUE
Chloromethane	23.38	20	116.90	0	204	TRUE
Vinyl Chloride	21.96	20	109.79	4	196	TRUE
1,3-Butadiene	30.31	20	151.53	50	141	FALSE NT
Bromomethane	21.08	20	105.42	14	186	TRUE
Chloroethane	21.26	20	106.30	38	162	TRUE
Acrolein	0.00	20	0.00	80	120	FALSE NT
Trichlorofluoromethane	23.72	20	118.58	48	152	TRUE
Acetone	22.35	20	111.73	12	150	TRUE
Acrylonitrile	0.00	20	0.00	80	120	FALSE NT
Iodomethane	22.51	20	112.56	40	150	TRUE
1,1-Dichloroethene	21.48	20	107.39	50	150	TRUE
Methylene Chloride	19.29	20	96.46	60	140	TRUE
Freon 113	20.59	20	102.95	76	124	TRUE
Carbon Disulfide	20.17	20	100.85	64	136	TRUE
trans-1,2-Dichloroethene	21.56	20	107.80	70	130	TRUE
MTBE	22.57	20	112.87	64	140	TRUE
1,1-Dichloroethane	20.19	20	100.95	72	128	TRUE
Vinyl Acetate	23.81	20	119.04	48	150	TRUE
n-Hexane	20.32	20	101.62	56	150	TRUE
2-Butanone (MEK)	23.25	20	116.24	44	150	TRUE
Diisopropylether (DIPE)	21.37	20	106.86	72	132	TRUE
cis-1,2-Dichloroethene	23.05	20	115.24	72	128	TRUE
Bromochloromethane	22.42	20	112.09	72	132	TRUE
Chloroform	19.90	20	99.50	68	132	TRUE
2,2-Dichloropropane	17.90	20	89.48	64	140	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	21.33	20	106.64	72	140	TRUE
Dibromofluoromethane(surr)	24.40	25	97.59	80	120	TRUE
Tetrahydrofuran	23.30	20	116.49	64	139	TRUE
1,2-Dichloroethane	20.81	20	104.07	68	132	TRUE

1,1,1-Trichloroethane	20.21	20	101.07	75	125	TRUE
(TAME) tert-Amyl methyl ether	22.82	20	114.11	68	140	TRUE
1,1-Dichloropropene	22.13	20	110.67	76	128	TRUE
Carbon Tetrachloride	20.41	20	102.05	73	127	TRUE
Benzene	22.12	20	110.60	64	136	TRUE
Dibromomethane	22.12	20	110.62	72	132	TRUE
1,2-Dichloropropane	21.89	20	109.43	34	166	TRUE
Trichloroethene	21.09	20	105.45	66	133	TRUE
Bromodichloromethane	20.70	20	103.52	66	134	TRUE
2-Chloroethyl vinylether	23.88	20	119.41	0	224	TRUE
cis-1,3-Dichloropropene	23.75	20	118.74	24	176	TRUE
4-Methyl-2-pentanone (MIBK)	24.00	20	120.00	60	144	TRUE
trans-1,3-Dichloropropene	21.65	20	108.25	50	150	TRUE
1,1,2-Trichloroethane	22.41	20	112.04	71	129	TRUE
Toluene-d8 (surr)	25.56	25	102.25	80	120	TRUE
Toluene	22.53	20	112.63	74	126	TRUE
1,3-Dichloropropane	21.64	20	108.22	80	124	TRUE
2-Hexanone	25.91	20	129.57	52	150	TRUE
Dibromochloromethane	21.34	20	106.68	68	132	TRUE
1,2-Dibromoethane	21.94	20	109.72	80	128	TRUE
Tetrachloroethene	21.23	20	106.17	74	126	TRUE
1,1,1,2-Tetrachloroethane	21.20	20	105.98	76	124	TRUE
Chlorobenzene	20.77	20	103.87	66	134	TRUE
Ethylbenzene	22.58	20	112.92	59	141	TRUE
m,p-Xylene	22.45	20	112.26	80	120	TRUE
Styrene	22.86	20	114.29	84	124	TRUE
o-Xylene	22.61	20	113.07	72	128	TRUE
4-Bromofluorobenzene (surr)	24.36	25	97.44	80	120	TRUE
Bromoform	22.59	20	112.94	71	129	TRUE
1,1,2,2-Tetrachloroethane	21.96	20	109.78	61	140	TRUE
1,2,3-Trichloropropane	23.15	20	115.77	76	128	TRUE
trans-1,4-Dichloro-2-butene	18.83	20	94.17	48	138	TRUE
Isopropylbenzene	25.64	20	128.19	76	132	TRUE
Bromobenzene	22.97	20	114.86	76	128	TRUE
n-Propylbenzene	23.86	20	119.31	76	132	TRUE
2-Chlorotoluene	21.36	20	106.82	80	124	TRUE
4-Chlorotoluene	22.07	20	110.36	80	124	TRUE
1,3,5-Trimethylbenzene	22.35	20	111.74	80	128	TRUE
tert-Butylbenzene	23.77	20	118.84	76	132	TRUE
1,2,4-Trimethylbenzene	22.56	20	112.81	80	128	TRUE
sec-Butylbenzene	22.94	20	114.71	80	128	TRUE
1,3-Dichlorobenzene	22.07	20	110.34	73	127	TRUE
1,4-Dichlorobenzene	21.32	20	106.62	63	137	TRUE
4-Isopropyltoluene	21.71	20	108.53	80	128	TRUE
1,2-Dichlorobenzene	22.87	20	114.37	63	137	TRUE
n-Butylbenzene	22.99	20	114.96	76	132	TRUE
1,2-Dibromo-3-chloropropane	25.11	20	125.54	64	128	TRUE
1,2,4-Trichlorobenzene	26.90	20	134.52	76	128	FALSE
Naphthalene	27.47	20	137.35	68	136	FALSE
Hexachlorobutadiene	24.13	20	120.65	76	132	TRUE
1,2,3-Trichlorobenzene	27.42	20	137.09	72	128	FALSE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓ 3/14/12 e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95571	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	523579	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	844938	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	717836	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	333924	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	307839	24.40 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.60%	
50) Toluene-d8 (surr)	14.19	98	966915	25.56 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.24%	
64) 4-Bromofluorobenzene (surr	17.82	95	358090	24.36 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.44%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	17350	290.35 ug/L #	68
3) tert-Butanol (TBA)	7.67	59	104342	125.13 ug/L	97
5) Dichlorodifluoromethane	4.88	85	555659	23.04 ug/L	99
6) Chloromethane	5.10	50	647455	23.38 ug/L	98
7) Vinyl Chloride	5.47	62	512804	21.96 ug/L	100
8) 1,3-Butadiene	5.56	54	418735	30.31 ug/L	98
9) Bromomethane	6.00	94	356974	21.08 ug/L	99
10) Chloroethane	6.19	64	291909	21.26 ug/L	99
12) Trichlorofluoromethane	7.08	101	463921m	23.72 ug/L	
13) Acetone	7.10	43	95288	22.35 ug/L	100
15) Iodomethane	7.78	142	544869	22.51 ug/L	99
16) 1,1-Dichloroethene	7.72	96	327610	21.48 ug/L	97
17) Methylene Chloride	7.86	84	359514	19.29 ug/L	97
18) Freon 113	7.99	101	349238	20.59 ug/L	99
19) Carbon Disulfide	8.30	76	843700	20.17 ug/L	96
20) trans-1,2-Dichloroethene	8.74	96	375707	21.56 ug/L	99
21) MTBE	8.86	73	592575	22.57 ug/L	99
22) 1,1-Dichloroethane	9.06	63	634231	20.19 ug/L	100
23) Vinyl Acetate	9.20	43	532824	23.81 ug/L	100
24) n-Hexane	9.55	86	60757	20.32 ug/L	100
25) 2-Butanone (MEK)	9.59	72	22318	23.25 ug/L #	28
26) Diisopropylether (DIPE)	9.59	45	1240606	21.37 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	364754	23.05 ug/L	97
28) Bromochloromethane	9.99	128	144089	22.42 ug/L	95
29) Chloroform	10.05	83	549956	19.90 ug/L	99
30) 2,2-Dichloropropane	10.15	77	293835	17.90 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	768252	21.33 ug/L	100
33) Tetrahydrofuran	10.47	72	15569	23.30 ug/L	92
34) 1,2-Dichloroethane	10.89	62	362950	20.81 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	438379	20.21 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	563073	22.82 ug/L	99
38) 1,1-Dichloropropene	11.25	75	405547	22.13 ug/L	99
39) Carbon Tetrachloride	11.49	117	386829	20.41 ug/L	100
40) Benzene	11.54	78	1075167	22.12 ug/L	98
41) Dibromomethane	12.26	93	156047	22.12 ug/L	98
42) 1,2-Dichloropropane	12.30	63	300728	21.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121230.D 031212.M Wed Mar 14 10:32:40 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

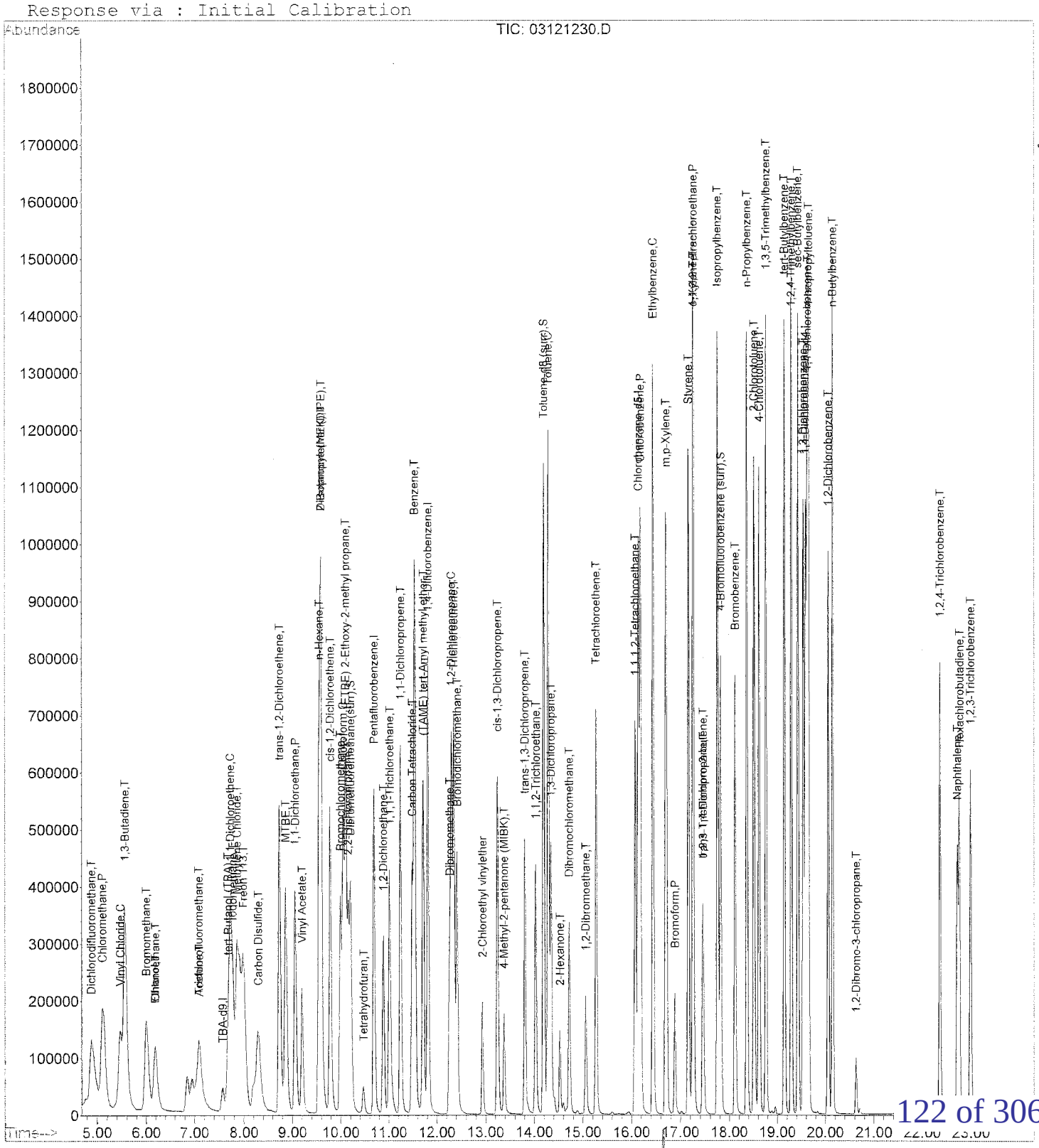
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	301048	21.09 ug/L	98
44)	Bromodichloromethane	12.42	83	381803	20.70 ug/L	100
45)	2-Chloroethyl vinylether	12.92	63	104641	23.88 ug/L	100
46)	cis-1,3-Dichloropropene	13.24	75	420961	23.75 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	182871	24.00 ug/L	97
48)	trans-1,3-Dichloropropene	13.81	75	334377	21.65 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	189493	22.41 ug/L	96
51)	Toluene	14.28	92	677377	22.53 ug/L	100
53)	1,3-Dichloropropane	14.34	76	327678	21.64 ug/L	99
54)	2-Hexanone	14.53	43	148820	25.91 ug/L	99
55)	Dibromochloromethane	14.72	129	232042	21.34 ug/L	100
56)	1,2-Dibromoethane	15.06	107	191212	21.94 ug/L	99
57)	Tetrachloroethene	15.28	164	224082	21.23 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	251034	21.20 ug/L	98
59)	Chlorobenzene	16.19	112	732712	20.77 ug/L	98
60)	Ethylbenzene	16.44	91	1252550	22.58 ug/L	99
61)	m,p-Xylene	16.71	106	491037	22.45 ug/L	97
62)	Styrene	17.16	104	765477	22.86 ug/L	99
63)	o-Xylene	17.26	106	490256	22.61 ug/L	98
66)	Bromoform	16.89	173	133678	22.59 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	193576	21.96 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	55561	23.15 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.47	53	56570	18.83 ug/L	98
70)	Isopropylbenzene	17.75	105	1229885	25.64 ug/L	100
71)	Bromobenzene	18.12	156	281553	22.97 ug/L	96
72)	n-Propylbenzene	18.37	91	1466940	23.86 ug/L	99
73)	2-Chlorotoluene	18.51	91	859937	21.36 ug/L	99
74)	4-Chlorotoluene	18.62	91	892724	22.07 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	996442	22.35 ug/L	100
76)	tert-Butylbenzene	19.14	119	804366	23.77 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	1021575	22.56 ug/L	99
78)	sec-Butylbenzene	19.42	105	1272401	22.94 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	536653	22.07 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	518048	21.32 ug/L	99
81)	4-Isopropyltoluene	19.65	119	980714	21.71 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	465204	22.87 ug/L	98
83)	n-Butylbenzene	20.15	91	973555	22.99 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	29163	25.11 ug/L	94
85)	1,2,4-Trichlorobenzene	22.36	180	358957	26.90 ug/L	100
86)	Naphthalene	22.72	128	491173	27.47 ug/L	99
87)	Hexachlorobutadiene	22.76	225	164134	24.13 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	282968	27.42 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121230.D 031212.M Wed Mar 14 10:32:40 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:~~29:25~~ 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.57	65	75566	200.00	ug/L	0.00
4) Pentafluorobenzene	10.69	168	459798	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	698677	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.14	117	570867	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	250210	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	271852	24.53	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.12%		
50) Toluene-d8 (surr)	14.19	98	773416	24.73	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.92%		
64) 4-Bromofluorobenzene (surr	17.82	95	277115	23.70	ug/L	0.00
Spiked Amount 25.000			Recovery =	94.80%		

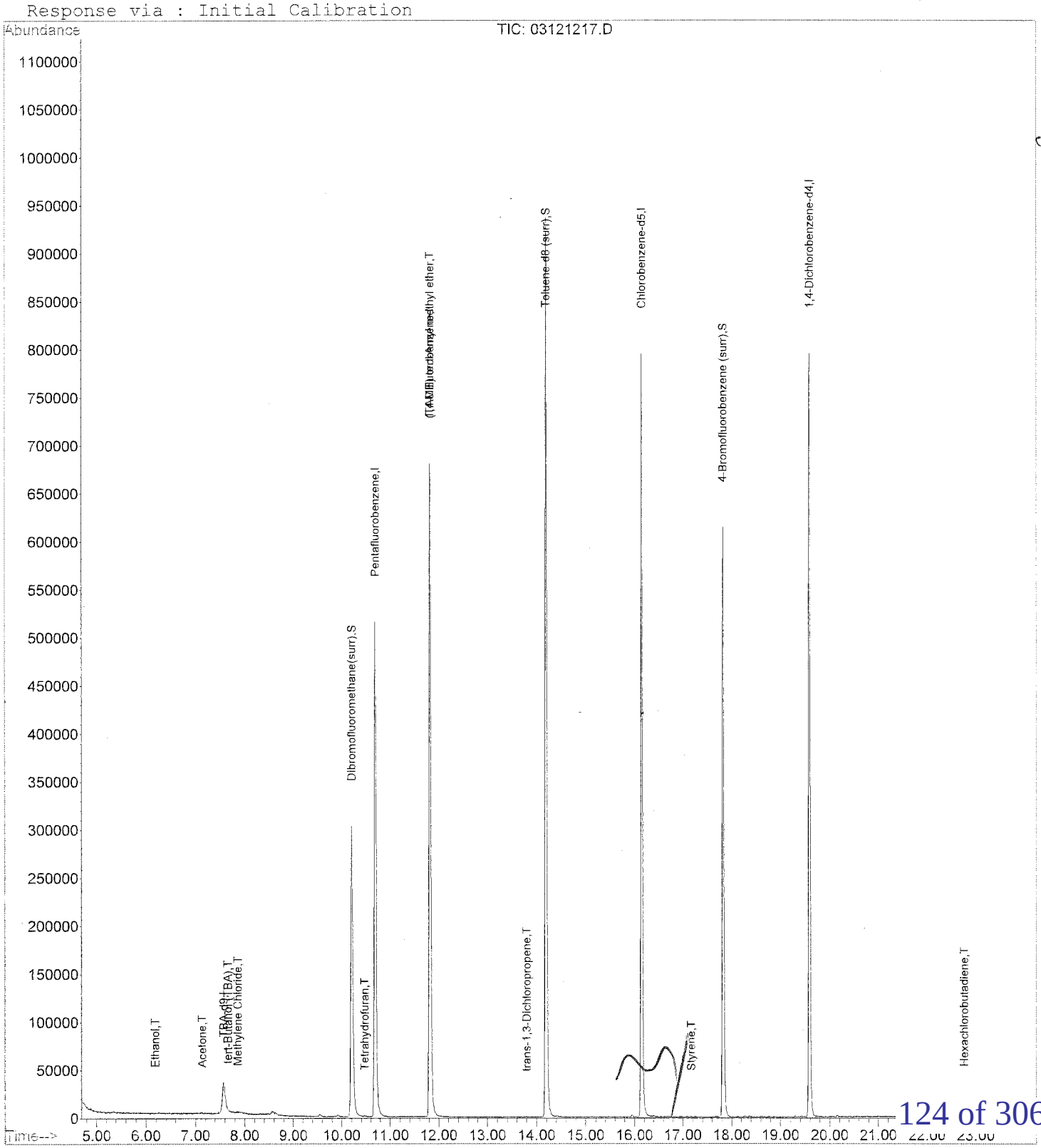
Target Compounds						Qvalue
2) Ethanol	6.18	45	219	4.64	ug/L #	88
3) tert-Butanol (TBA)	7.67	59	61	0.09	ug/L #	80
13) Acetone	7.13	43	1717	0.46	ug/L #	58
17) Methylene Chloride	7.86	84	1655	0.10	ug/L #	63
33) Tetrahydrofuran	10.47	72	111	0.19	ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	8227	0.38	ug/L #	40
48) trans-1,3-Dichloropropene	13.80	75	59	0.24	ug/L #	32
62) Styrene	17.16	104	58	0.10	ug/L #	19
87) Hexachlorobutadiene	22.76	225	1430	0.28	ug/L	98

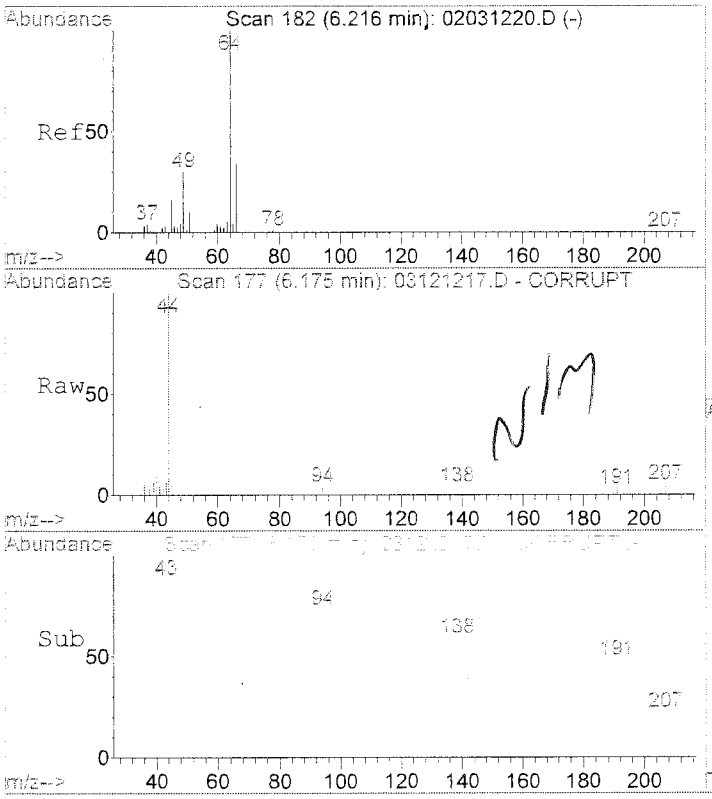
(#) = qualifier out of range (m) = manual integration
03121217.D 031212.M Wed Mar 14 10:51:43 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

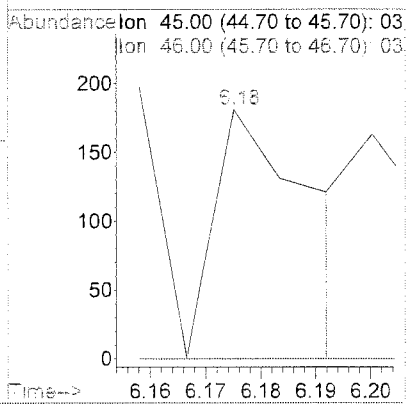


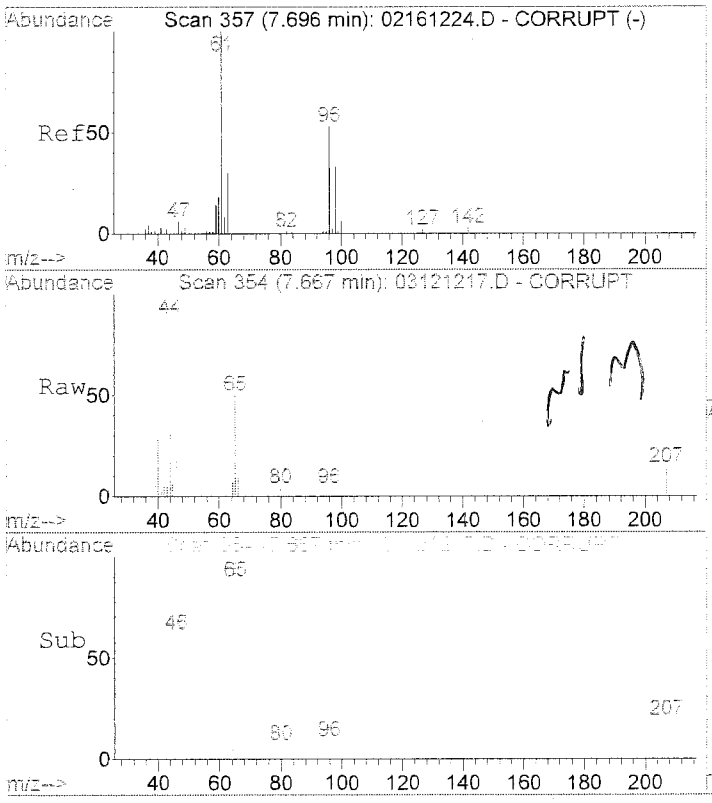


#2
Ethanol
Concen: 4.64 ug/L
RT: 6.18 min Scan# 177
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 45 Resp: 219

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.8	59.8#

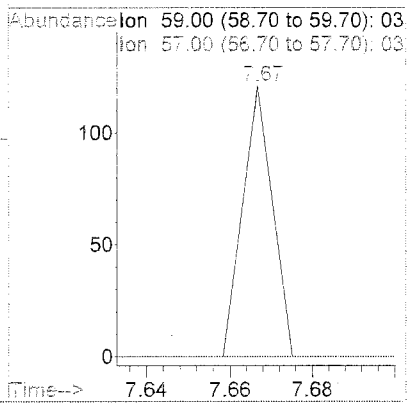


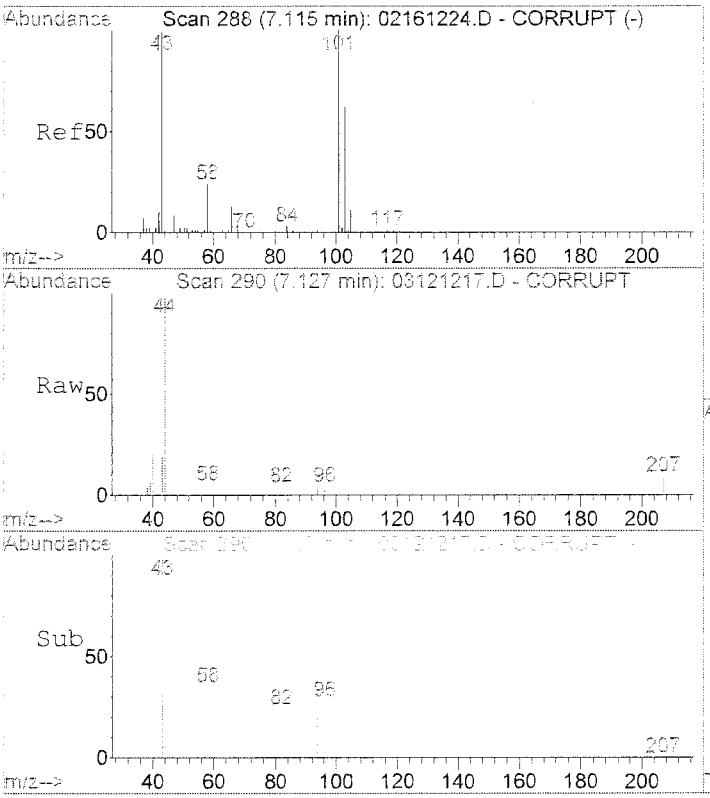


#3
tert-Butanol (TBA)
Concen: 0.09 ug/L
RT: 7.67 min Scan# 354
Delta R.T. -0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 59 Resp: 61

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

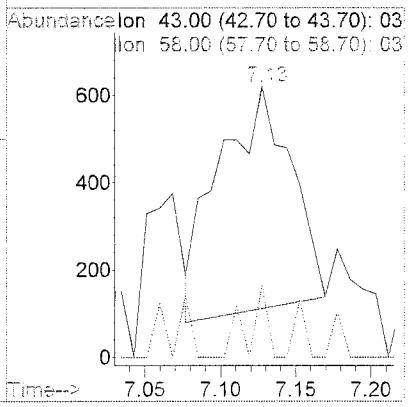


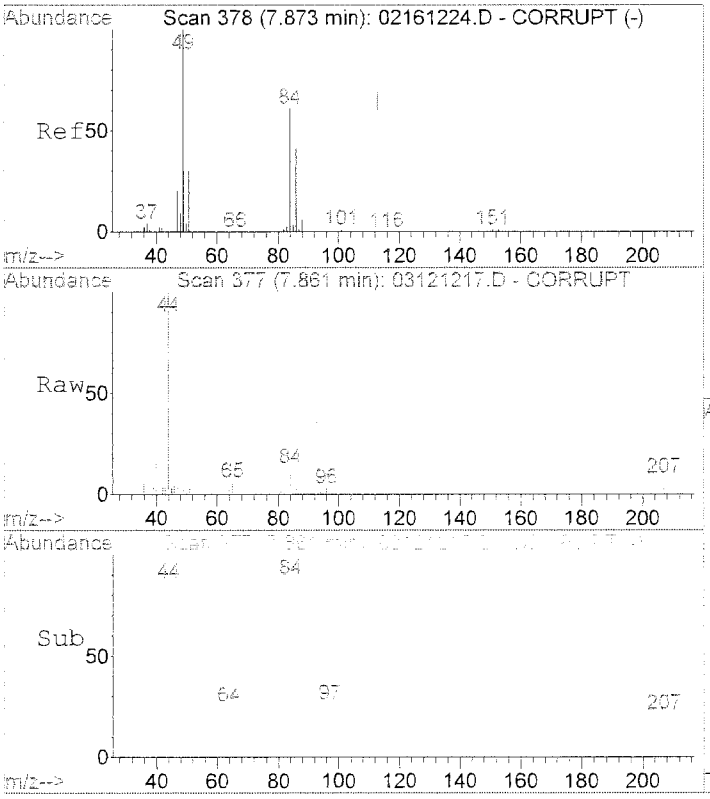


#13
Acetone
Concen: 0.46 ug/L
RT: 7.13 min Scan# 290
Delta R.T. 0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 43 Resp: 1717

Ion	Ratio	Lower	Upper
43	100		
58	3.4	19.1	28.7#

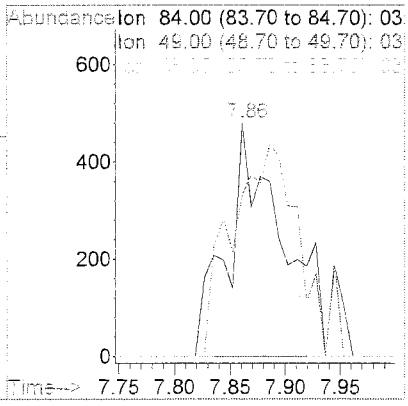


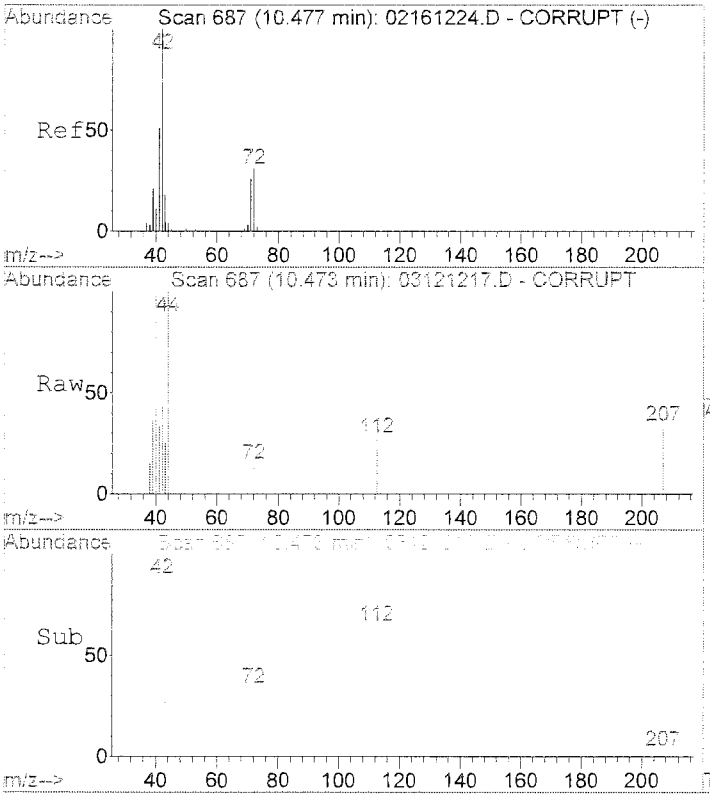


#17
Methylene Chloride
Concen: 0.10 ug/L
RT: 7.86 min Scan# 377
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 84 Resp: 1655

Ion	Ratio	Lower	Upper
84	100		
49	108.0	128.6	193.0#
86	40.1	51.2	76.8#

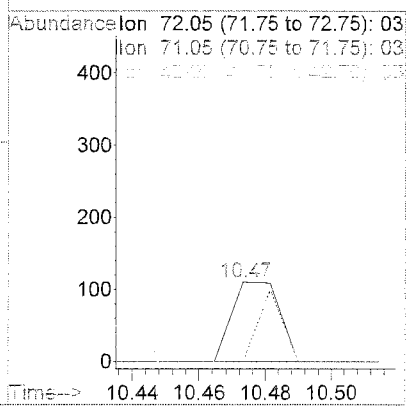


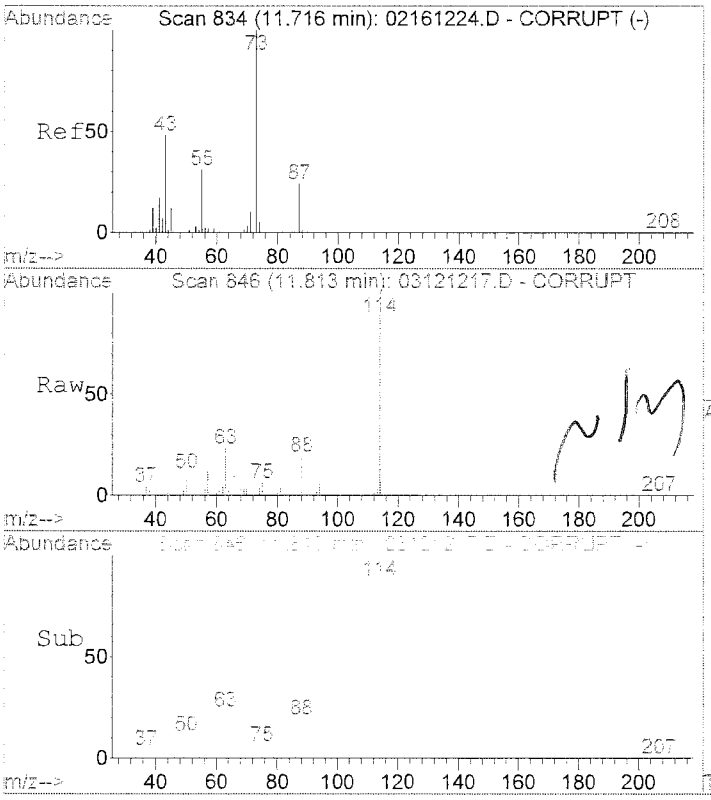


#33
Tetrahydrofuran
Concen: 0.19 ug/L
RT: 10.47 min Scan# 687
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 72 Resp: 111

Ion	Ratio	Lower	Upper
72	100		
71	45.9	74.4	114.4#
42	745.9	318.4	358.4#

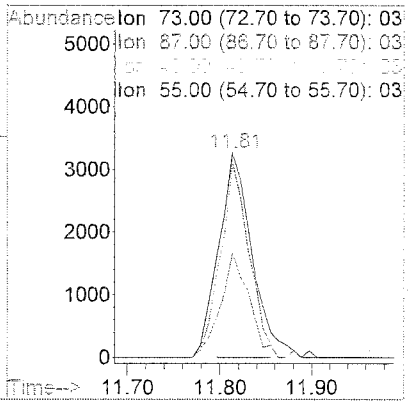


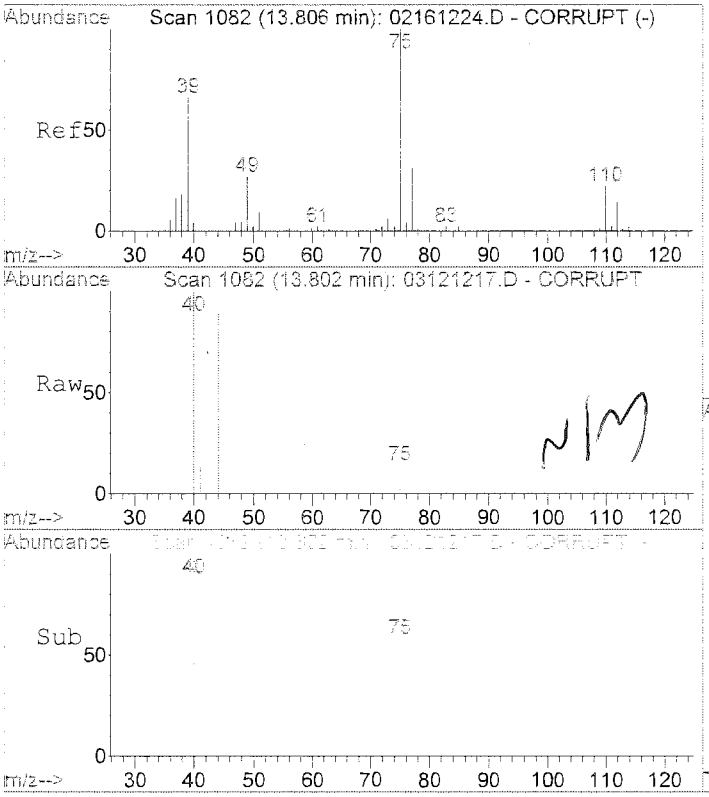


#36
(TAME) tert-Amyl methyl ether
Concen: 0.38 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 73 Resp: 8227

Ion	Ratio	Lower	Upper
73	100		
87	81.6	3.3	43.3#
43	7.2	27.7	67.7#
55	43.3	13.2	53.2

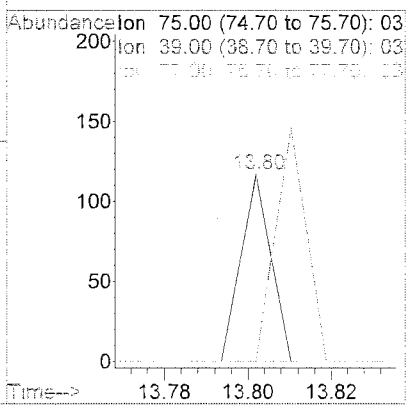


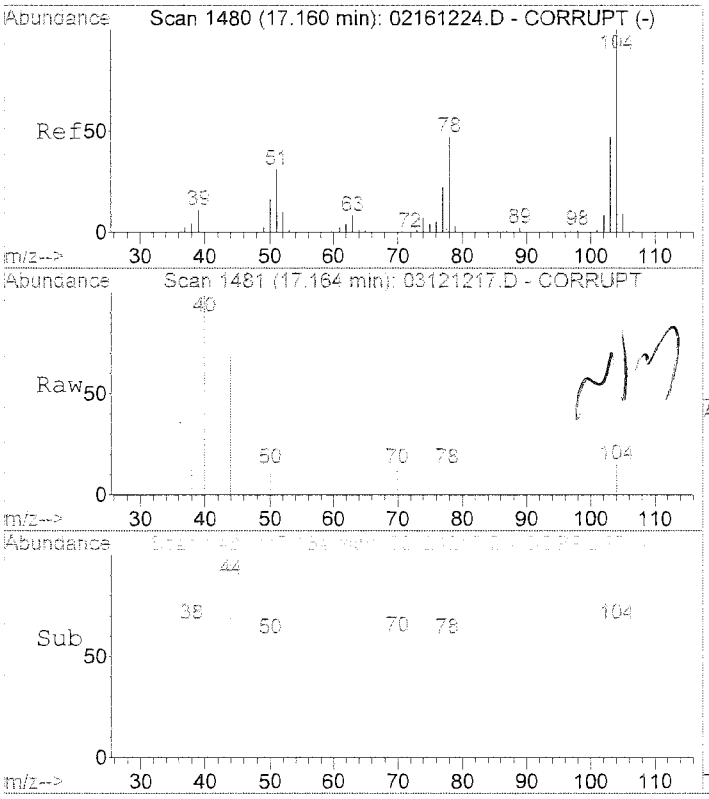


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1082
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 75 Resp: 59

Ion	Ratio	Lower	Upper
75	100		
39	125.4	53.5	80.3#
77	0.0	25.1	37.7#

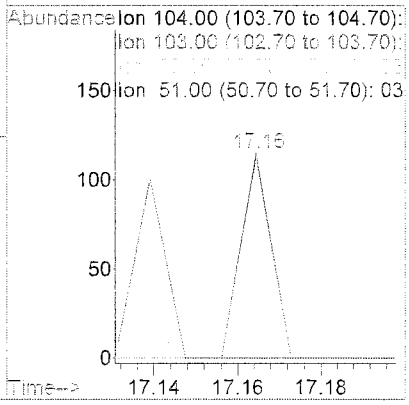


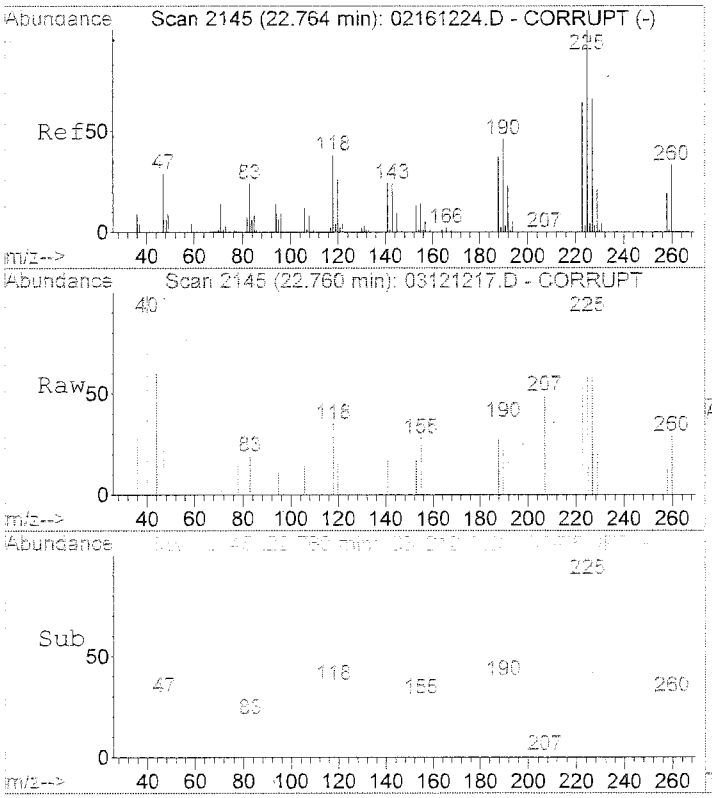


#62
Styrene
Concen: 0.10 ug/L
RT: 17.16 min Scan# 1481
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:104 Resp: 58

Ion	Ratio	Lower	Upper
104	100		
103	98.3	37.2	55.8#
78	0.0	35.8	53.8#
51	87.9	24.6	37.0#

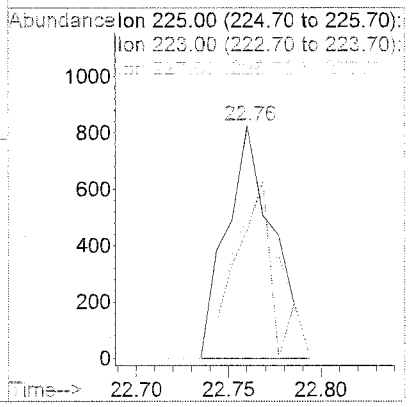




#87
Hexachlorobutadiene
Concen: 0.28 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:225 Resp: 1430

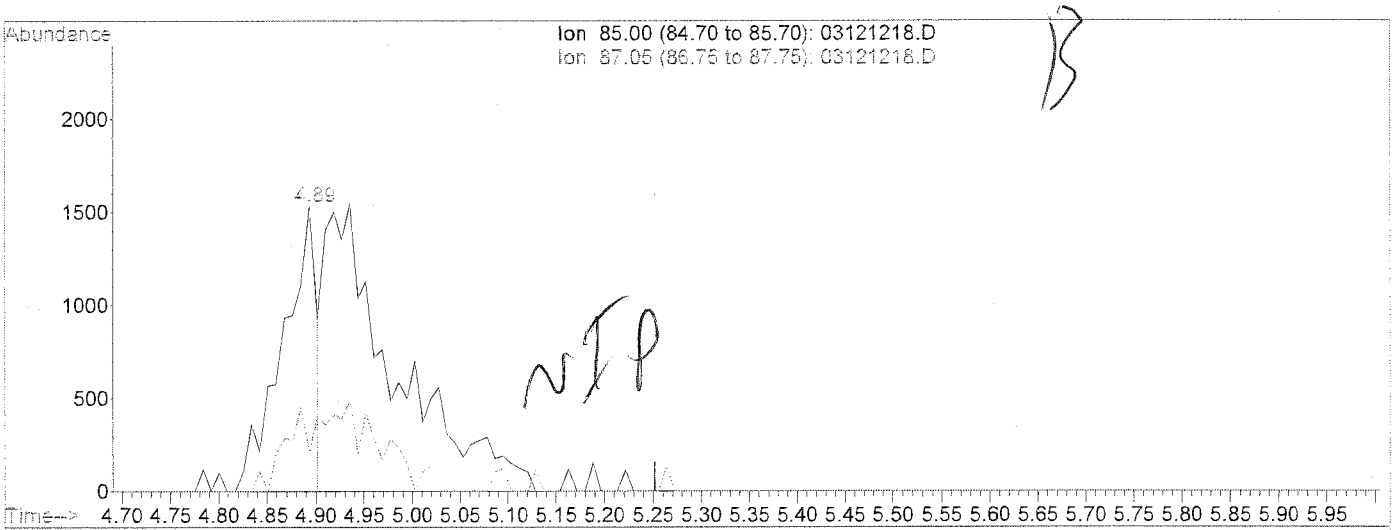
Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.8	74.8
227	65.5	50.7	76.1

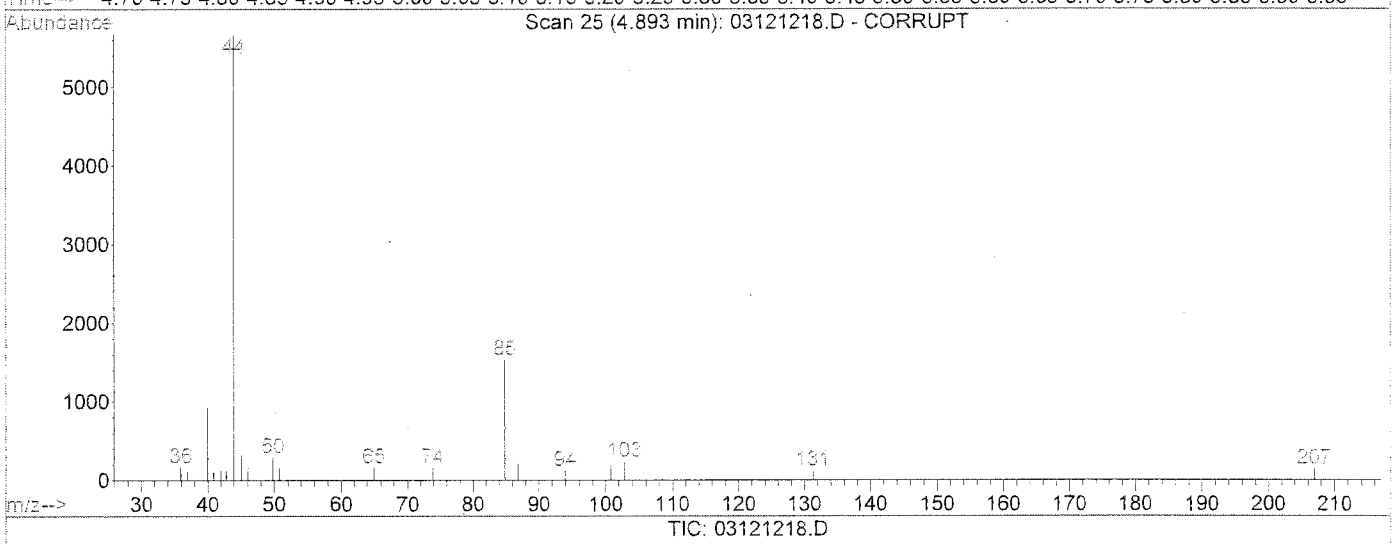


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:34 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.89min 0.18ug/L

response 3670

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	21.06
0.00	0.00	0.00
0.00	0.00	0.00

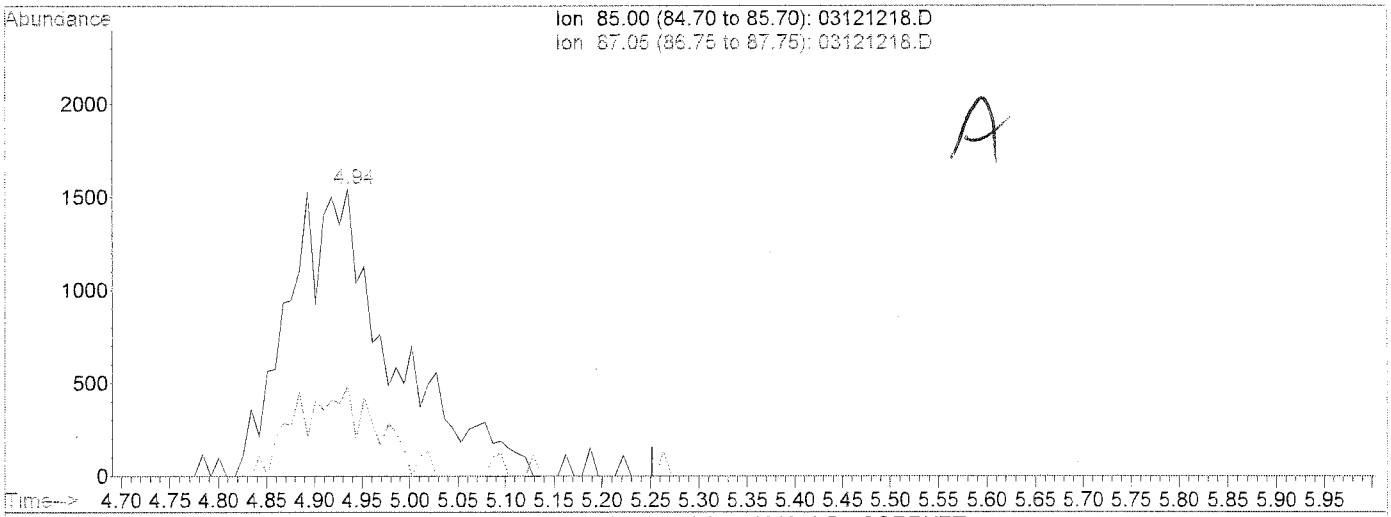
3/14/12

03121218.D 031212.M Wed Mar 14 10:35:03 2012

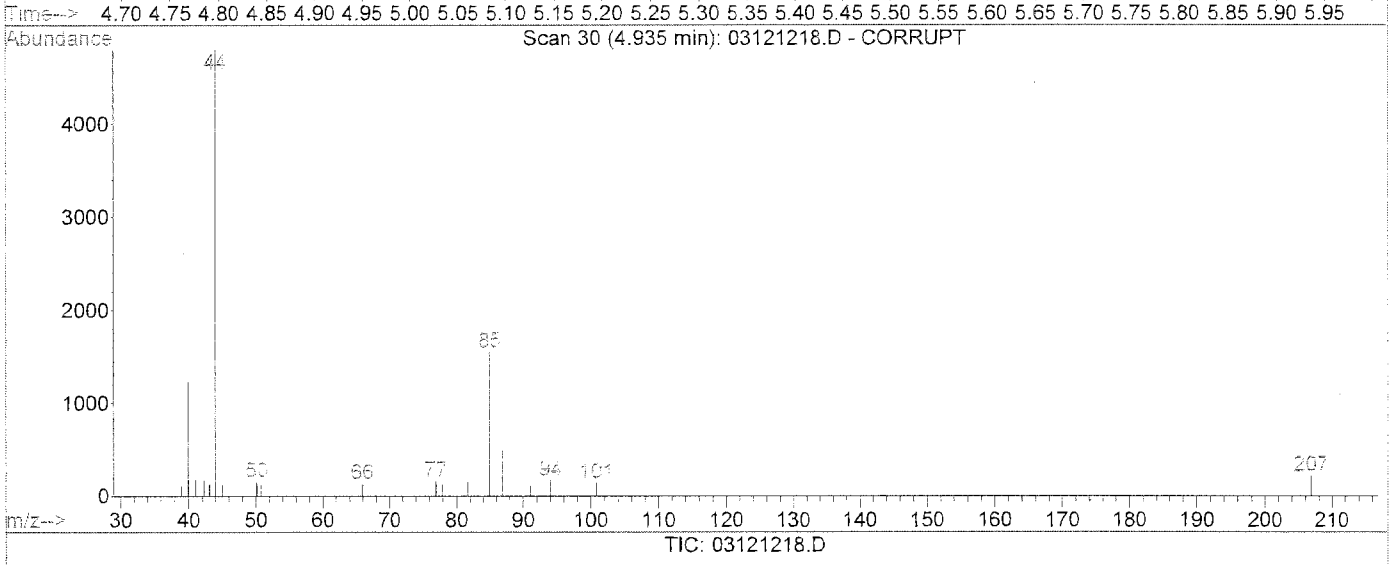
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



A



TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.55ug/L m

response 11482

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	6.73#
0.00	0.00	0.00
0.00	0.00	0.00

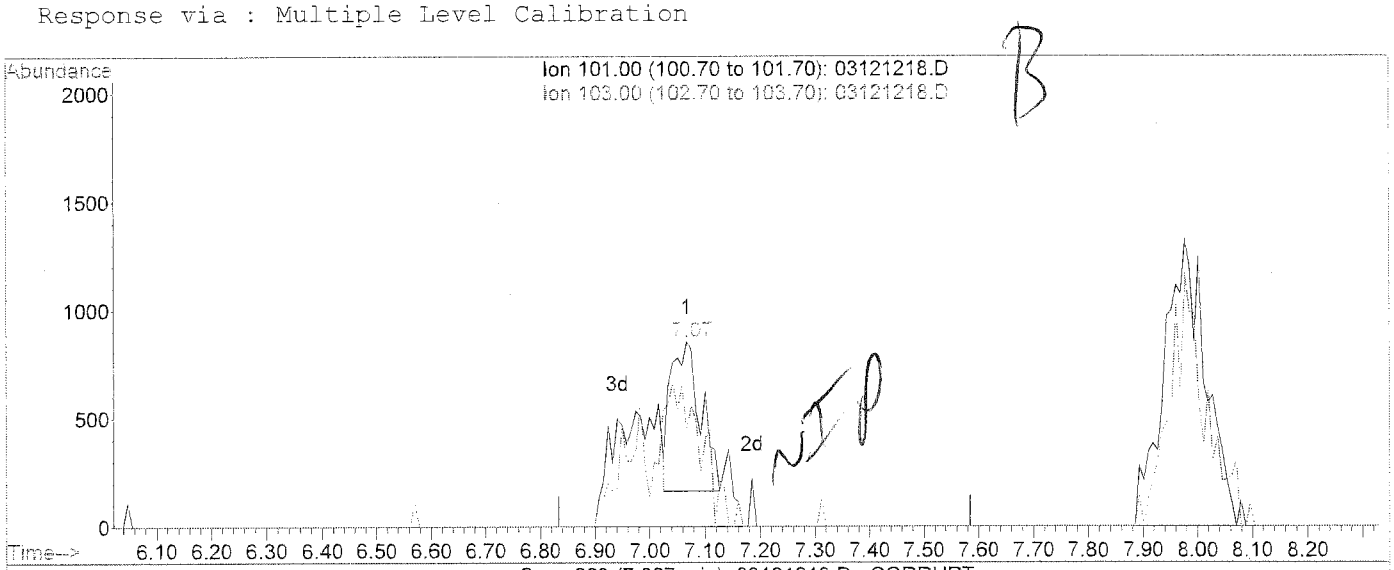
✓3/14/12

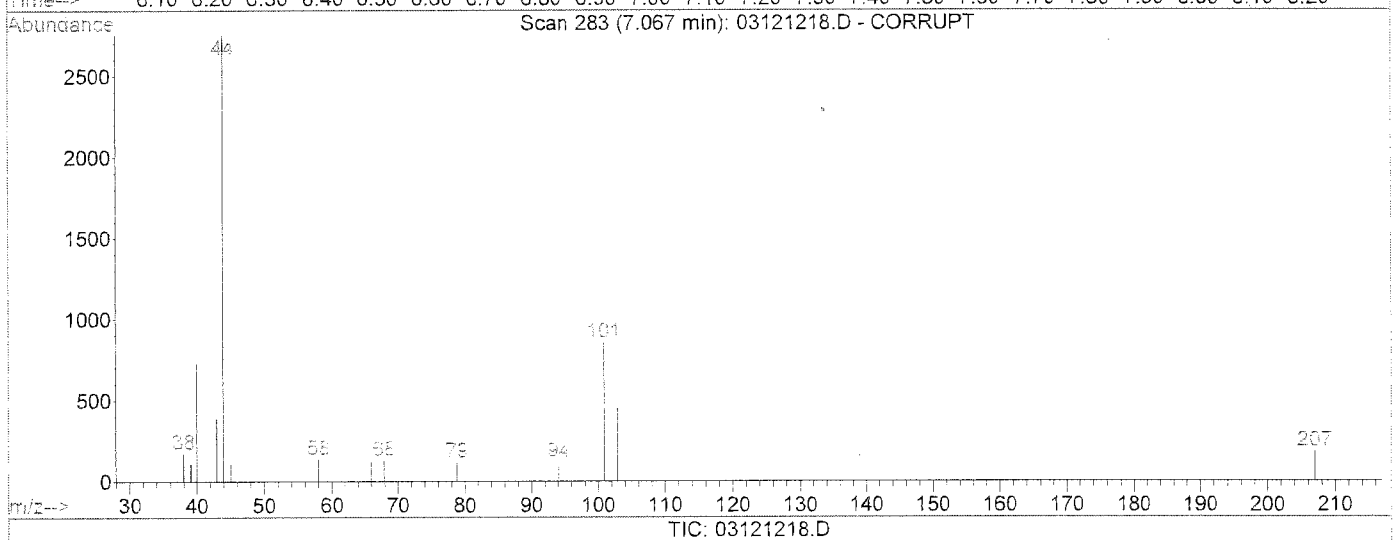
03121218.D 031212.M Wed Mar 14 10:35:08 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.15ug/L

response 2572

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	34.54#
0.00	0.00	0.00
0.00	0.00	0.00

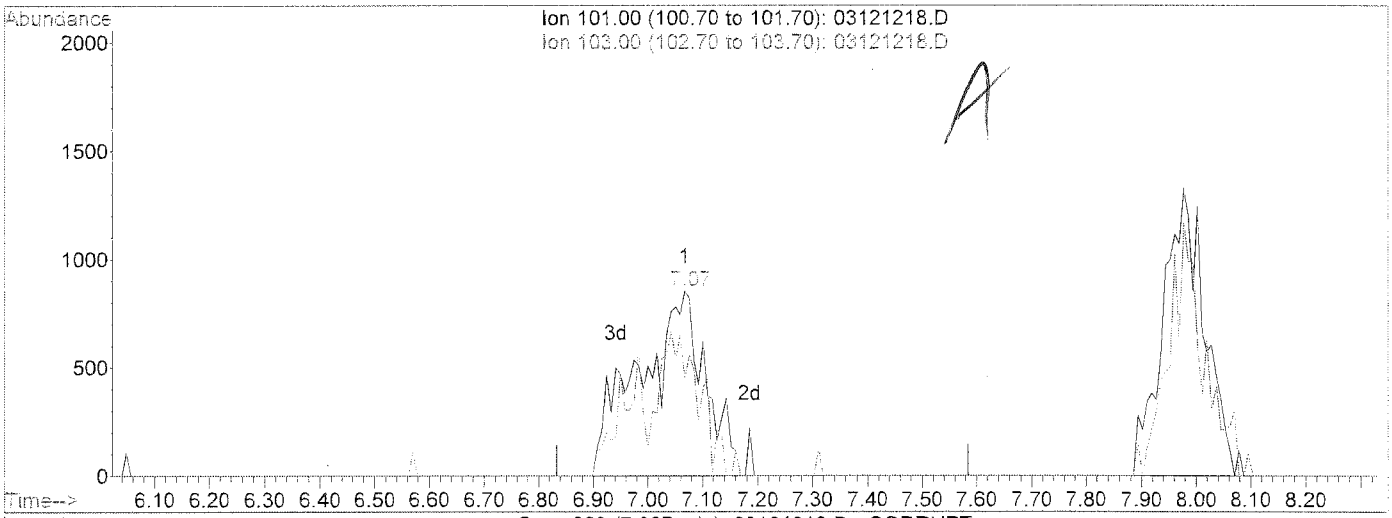
✓3/14/12

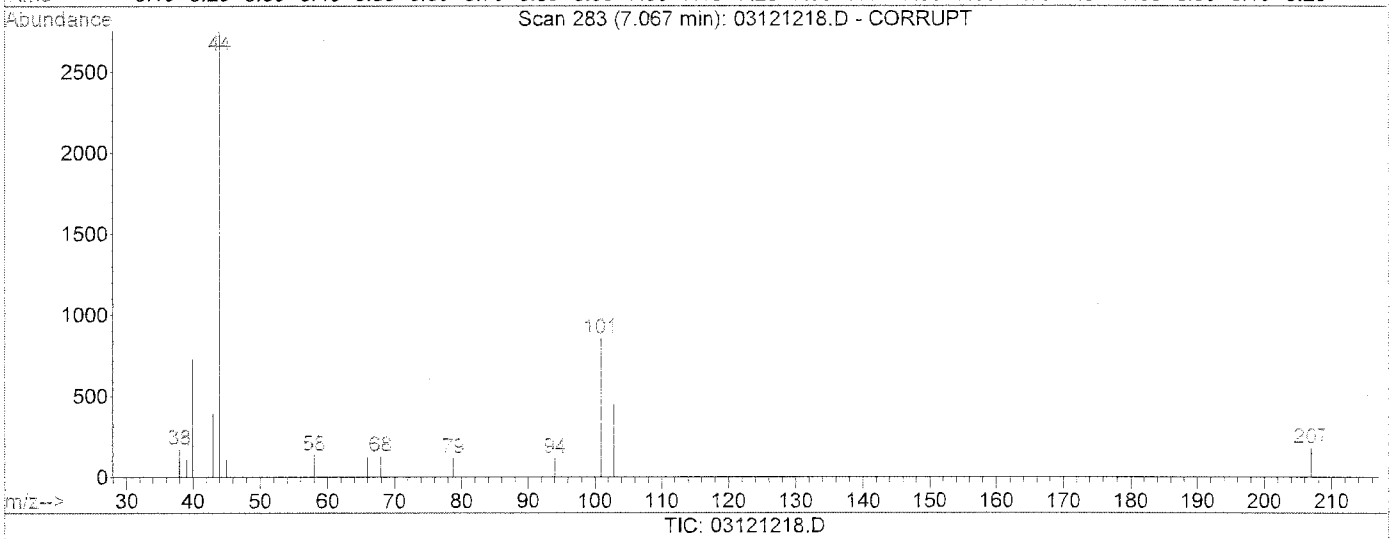
03121218.D 031212.M Wed Mar 14 10:35:13 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.42ug/L m

response 7132

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	52.52#
0.00	0.00	0.00
0.00	0.00	0.00

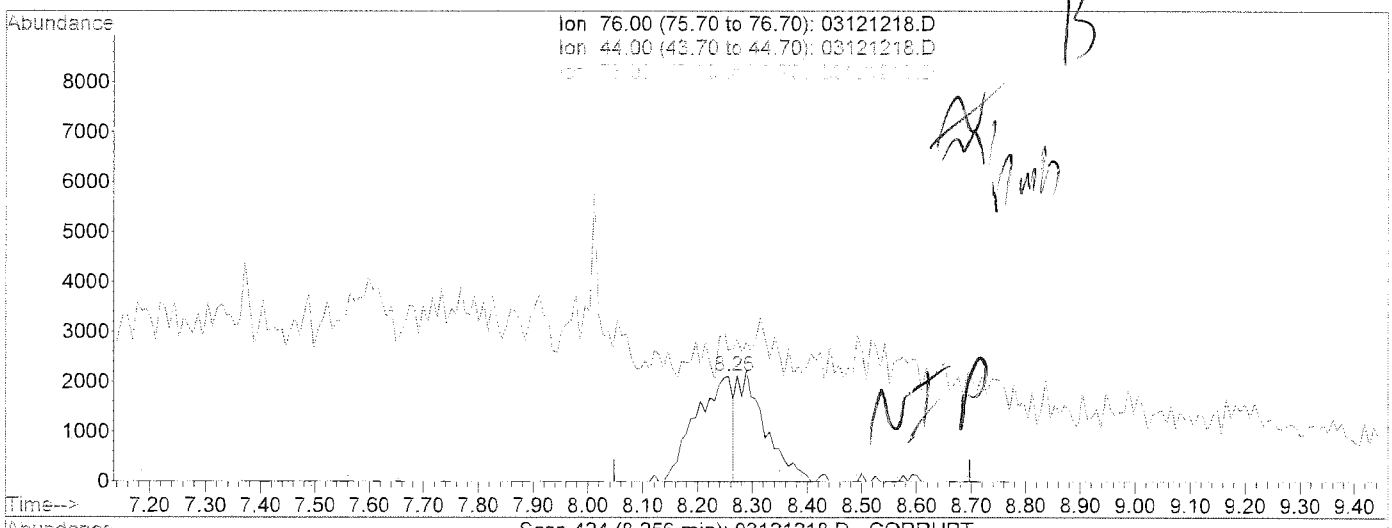
v3/14/12

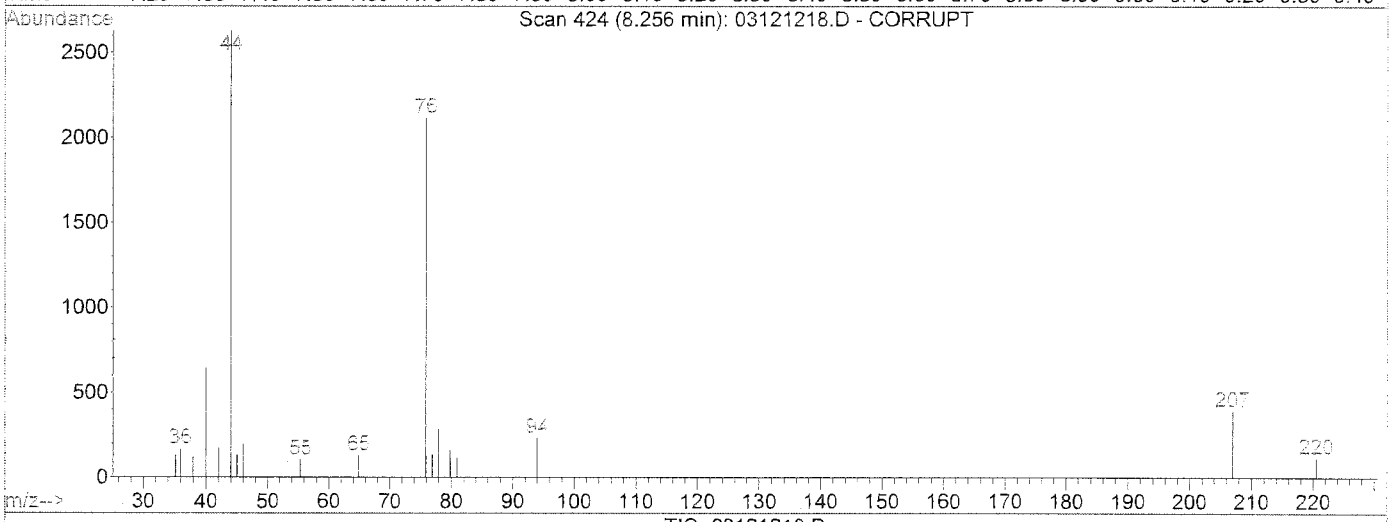
03121218.D 031212.M Wed Mar 14 10:35:20 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.26min 0.27ug/L

response 9698

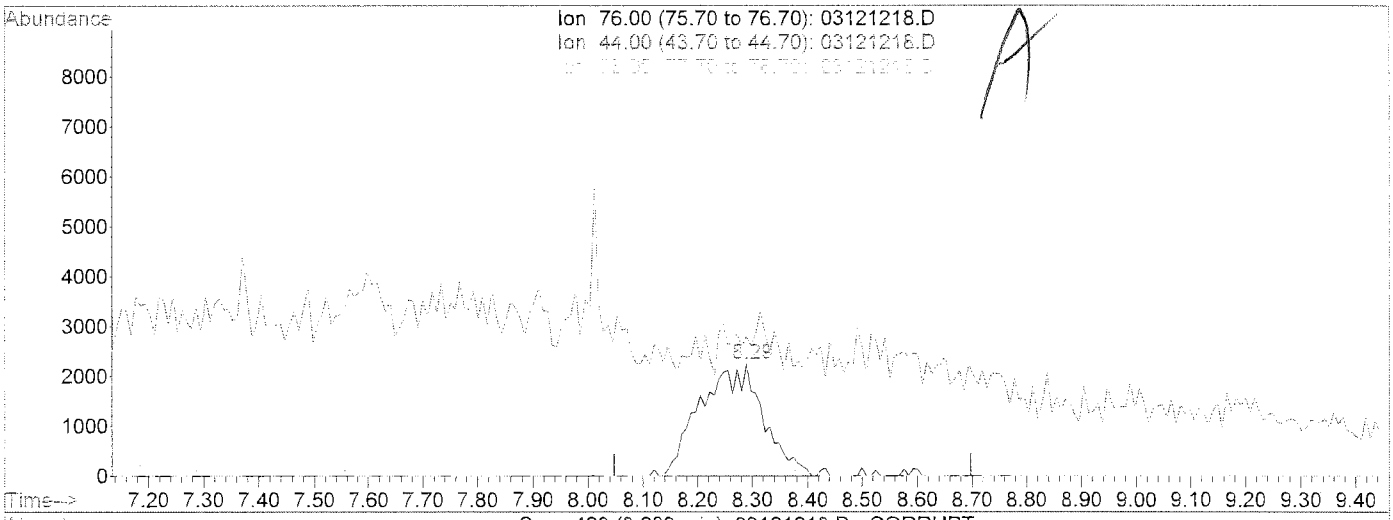
Ion	Exp%	Act%
76.00	100	100
44.00	14.20	16.64
78.00	9.00	4.05#
0.00	0.00	0.00

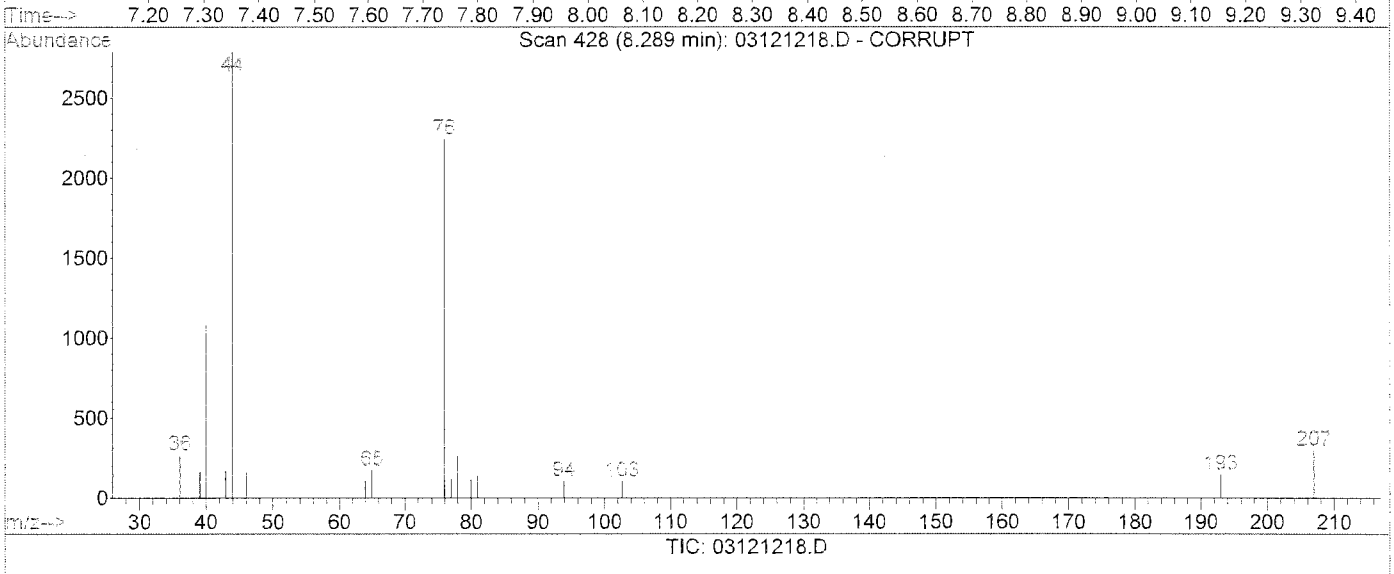
03121218.D 031212.M Wed Mar 14 10:35:26 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.29min 0.49ug/L m

response 17667

Ion	Exp%	Act%
76.00	100	100
44.00	14.20	9.14#
78.00	9.00	2.22#
0.00	0.00	0.00

✓3/14/12

03121218.D 031212.M Wed Mar 14 10:35:34 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Rq. calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	66949	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	449787	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	704861	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	562080	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	258325	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	273468	25.23 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.92%	
50) Toluene-d8 (surr)	14.19	98	800855	25.38 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.52%	
64) 4-Bromofluorobenzene (surr	17.82	95	284631	24.73 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.92%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.94	85	11482m	0.55 ug/L	
6) Chloromethane	5.10	50	12448	0.52 ug/L	95
7) Vinyl Chloride	5.42	62	10266	0.51 ug/L	96
8) 1,3-Butadiene	5.53	54	6222	0.52 ug/L #	70
9) Bromomethane	5.97	94	8301	0.57 ug/L #	50
10) Chloroethane	6.19	64	6204	0.53 ug/L #	75
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	7132m	0.42 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	11193	0.54 ug/L #	93
16) 1,1-Dichloroethene	7.71	96	7102	0.54 ug/L	93
17) Methylene Chloride	7.87	84	9848	0.62 ug/L	97
18) Freon 113	7.98	101	7086	0.49 ug/L #	87
19) Carbon Disulfide	8.29	76	17667m	0.49 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	8259	0.55 ug/L	92
21) MTBE	8.86	73	9848	0.44 ug/L	99
22) 1,1-Dichloroethane	9.06	63	14091	0.52 ug/L	96
23) Vinyl Acetate	9.21	43	8491	0.44 ug/L #	92
24) n-Hexane	9.55	86	1263	0.49 ug/L #	85
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.60	45	23379	0.47 ug/L	87
27) cis-1,2-Dichloroethene	9.80	96	6342	0.47 ug/L	91
28) Bromochloromethane	10.00	128	2651	0.48 ug/L	97
29) Chloroform	10.05	83	12905	0.54 ug/L	98
30) 2,2-Dichloropropane	10.17	77	7644	0.54 ug/L #	41
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	12957	0.42 ug/L	98
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	7547	0.50 ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	9419	0.51 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	7532	0.36 ug/L Deleted	92
38) 1,1-Dichloropropene	11.25	75	6890	0.45 ug/L	94
39) Carbon Tetrachloride	11.48	117	8199	0.52 ug/L	97
40) Benzene	11.54	78	21336	0.53 ug/L	97

(#) = qualifier out of range (m) = manual integration
03121218.D 031212.M Wed Mar 14 10:36:13 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

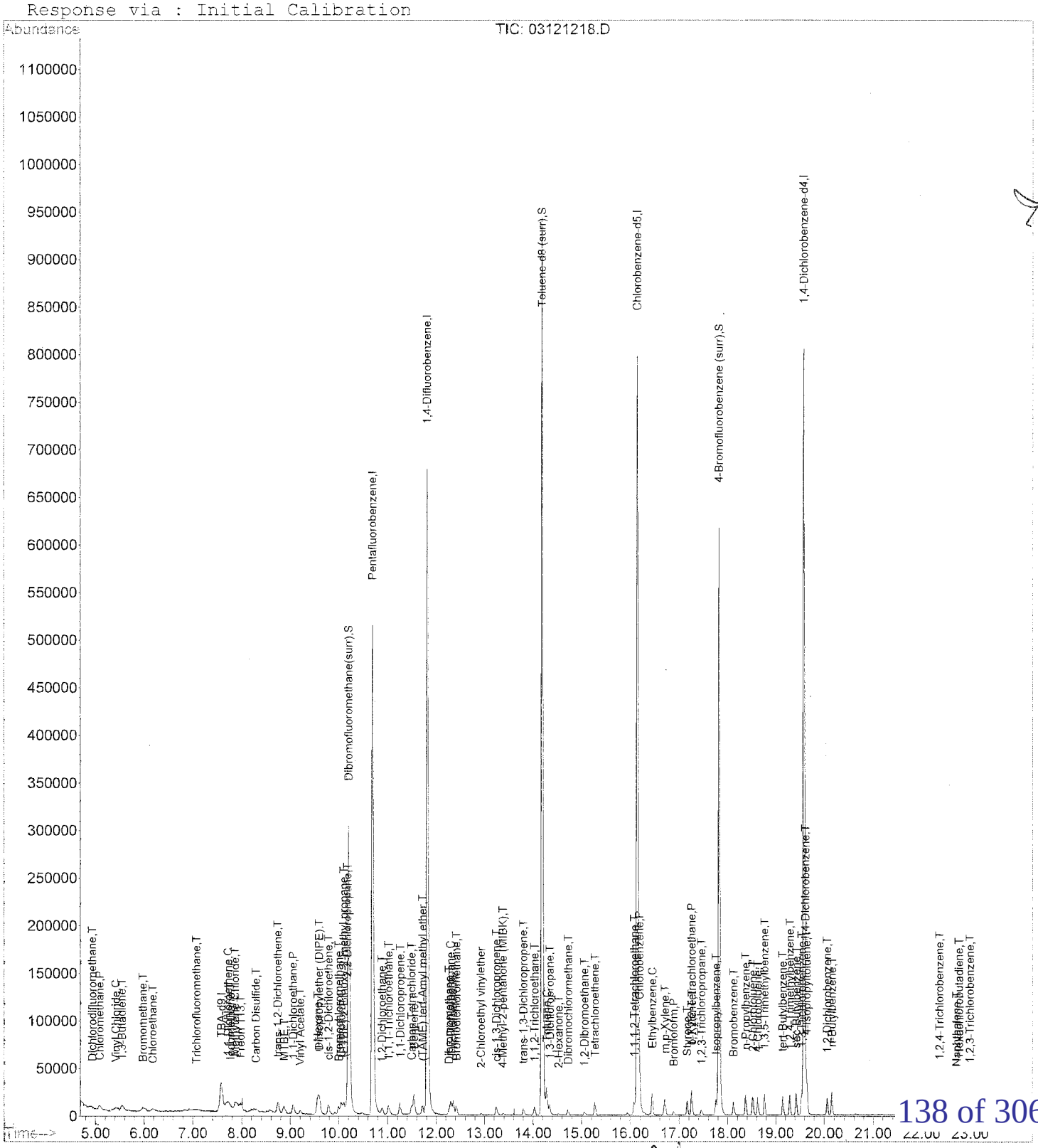
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	2884	0.49 ug/L		96
42)	1,2-Dichloropropane	12.31	63	5974	0.52 ug/L		96
43)	Trichloroethene	12.35	95	6441	0.54 ug/L		92
44)	Bromodichloromethane	12.42	83	7796	0.51 ug/L		98
45)	2-Chloroethyl vinylether	12.93	63	917	1.58 ug/L	Deleted	97
46)	cis-1,3-Dichloropropene	13.24	75	6589	0.45 ug/L		95
47)	4-Methyl-2-pentanone (MIBK	13.39	43	2204	0.35 ug/L	Deleted	99
48)	trans-1,3-Dichloropropene	13.81	75	4365	0.57 ug/L	#	85
49)	1,1,2-Trichloroethane	14.04	97	3522	0.50 ug/L		96
51)	Toluene	14.29	92	12964	0.52 ug/L		96
53)	1,3-Dichloropropane	14.34	76	6024	0.51 ug/L		94
54)	2-Hexanone	14.53	43	1598	0.36 ug/L	Deleted	85
55)	Dibromochloromethane	14.73	129	3896	0.46 ug/L		95
56)	1,2-Dibromoethane	15.06	107	3051	0.45 ug/L		99
57)	Tetrachloroethene	15.28	164	3976	0.48 ug/L		94
58)	1,1,1,2-Tetrachloroethane	16.08	131	4887	0.53 ug/L	#	63
59)	Chlorobenzene	16.19	112	15208	0.55 ug/L		95
60)	Ethylbenzene	16.45	91	20022	0.46 ug/L		98
61)	m,p-Xylene	16.71	106	6922	0.40 ug/L		94
62)	Styrene	17.16	104	9083	0.45 ug/L		95
63)	o-Xylene	17.26	106	7032	0.41 ug/L	#	87
66)	Bromoform	16.89	173	2078	0.45 ug/L		91
67)	1,1,2,2-Tetrachloroethane	17.25	83	3766	0.55 ug/L	#	86
68)	1,2,3-Trichloropropane	17.45	110	821	0.44 ug/L	#	87
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.	d	
70)	Isopropylbenzene	17.76	105	13985	0.38 ug/L		98
71)	Bromobenzene	18.12	156	4575	0.48 ug/L		92
72)	n-Propylbenzene	18.37	91	20377	0.43 ug/L		99
73)	2-Chlorotoluene	18.52	91	16078	0.52 ug/L	#	86
74)	4-Chlorotoluene	18.62	91	14269	0.46 ug/L		97
75)	1,3,5-Trimethylbenzene	18.76	105	15780	0.46 ug/L		92
76)	tert-Butylbenzene	19.14	119	9693	0.37 ug/L		93
77)	1,2,4-Trimethylbenzene	19.30	105	14689	0.42 ug/L		99
78)	sec-Butylbenzene	19.43	105	19925	0.46 ug/L		100
79)	1,3-Dichlorobenzene	19.54	146	9324	0.50 ug/L		91
80)	1,4-Dichlorobenzene	19.62	146	9764	0.52 ug/L	#	77
81)	4-Isopropyltoluene	19.65	119	17175	0.49 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	7685	0.49 ug/L		97
83)	n-Butylbenzene	20.16	91	14817	0.45 ug/L		92
84)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.	d	
85)	1,2,4-Trichlorobenzene	22.36	180	4456	0.43 ug/L	#	85
86)	Naphthalene	22.71	128	3760	0.27 ug/L	Deleted	97
87)	Hexachlorobutadiene	22.77	225	3636	0.69 ug/L		96
88)	1,2,3-Trichlorobenzene	23.00	180	3074	0.39 ug/L		87

(#) = qualifier out of range (m) = manual integration
03121218.D 031212.M Wed Mar 14 10:36:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

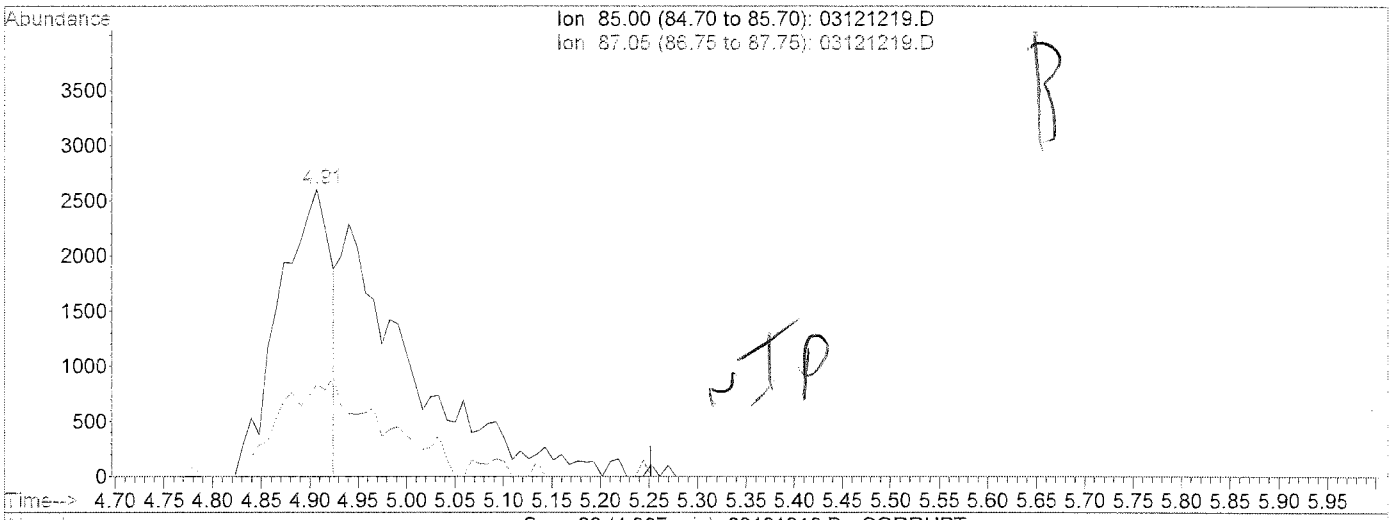
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

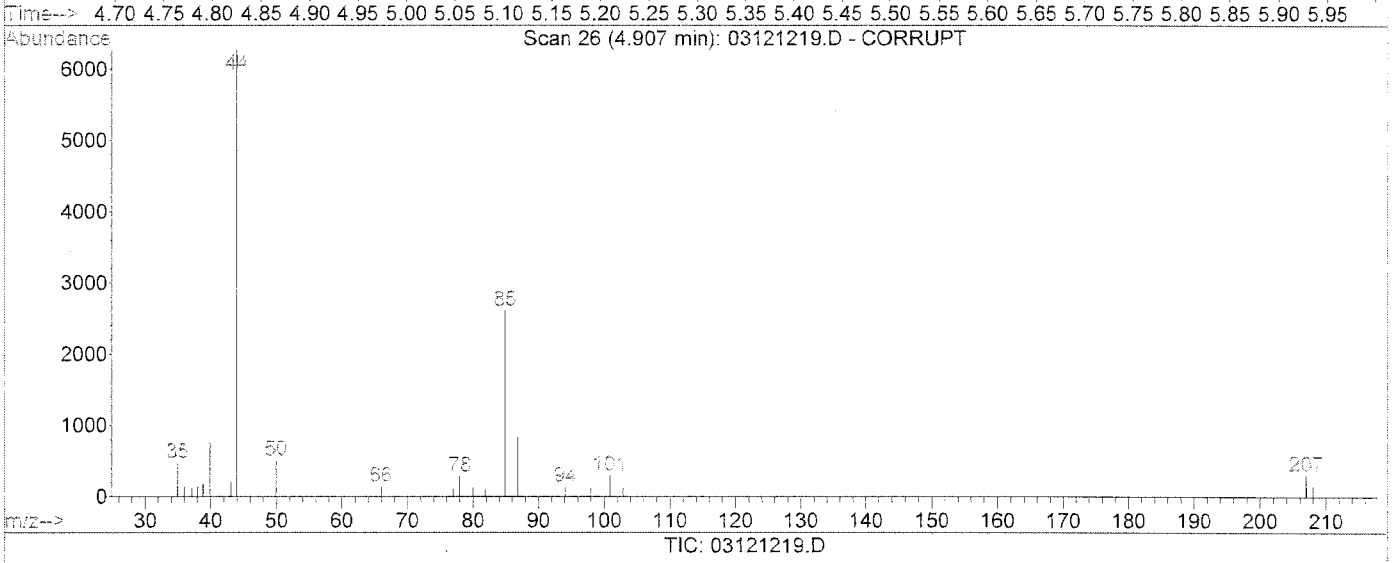
Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



R

~TP



TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 0.46ug/L

response 9600

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	26.61
0.00	0.00	0.00
0.00	0.00	0.00

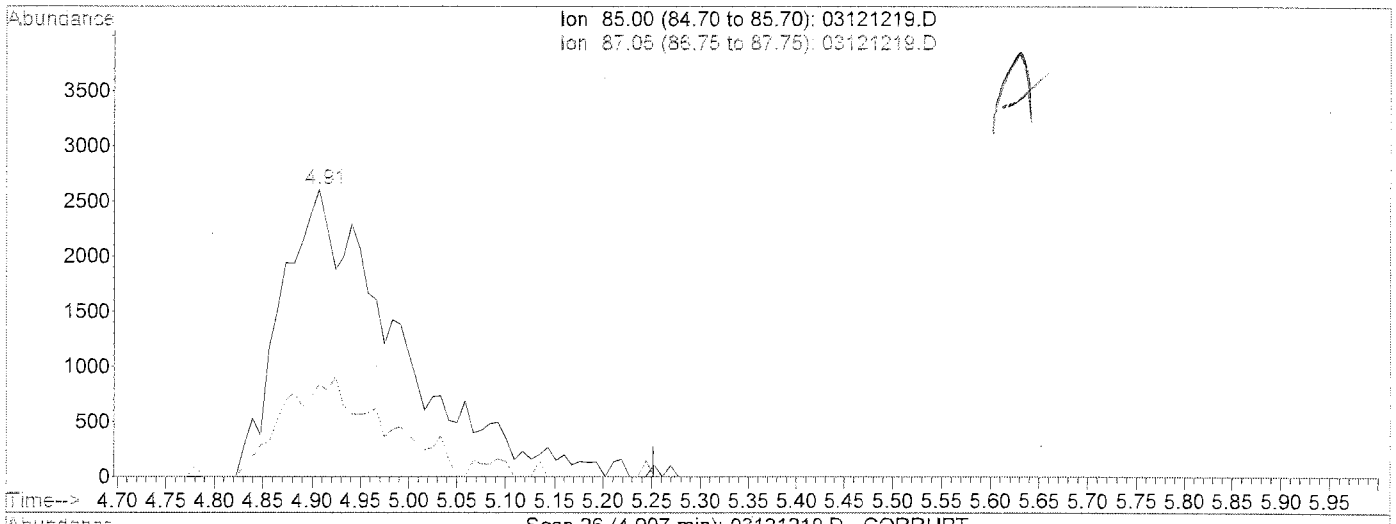
✓ 3/14/12

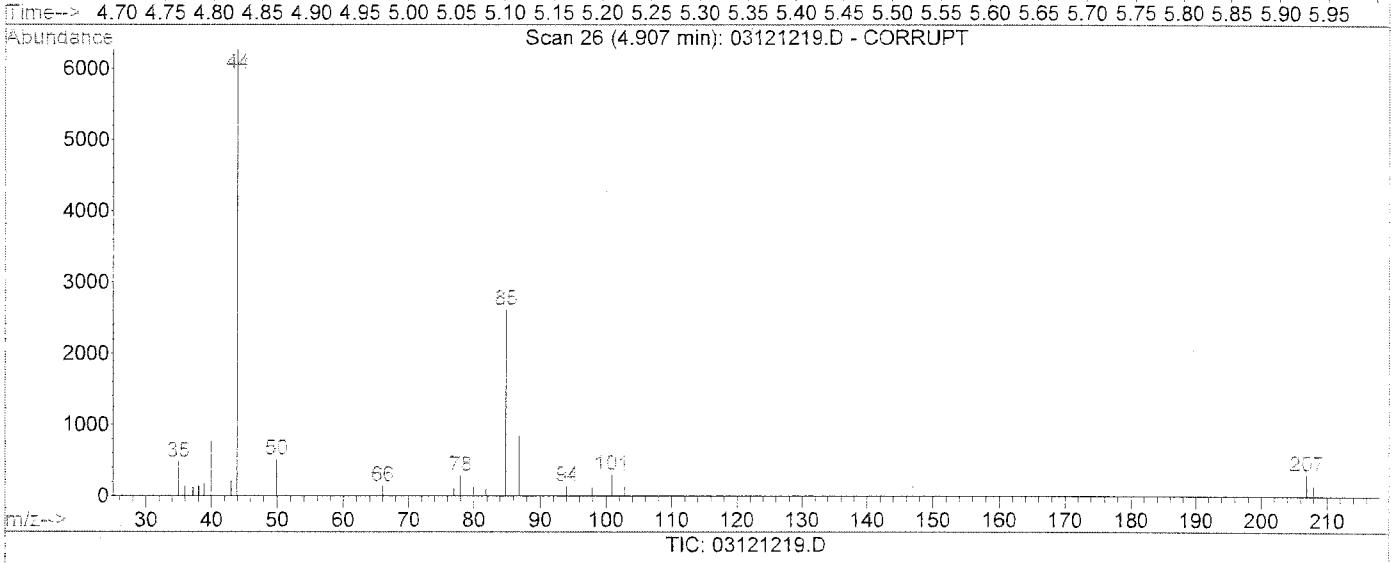
03121219.D 031212.M Wed Mar 14 10:39:15 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 1.04ug/L m

response 21413

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	11.93#
0.00	0.00	0.00
0.00	0.00	0.00

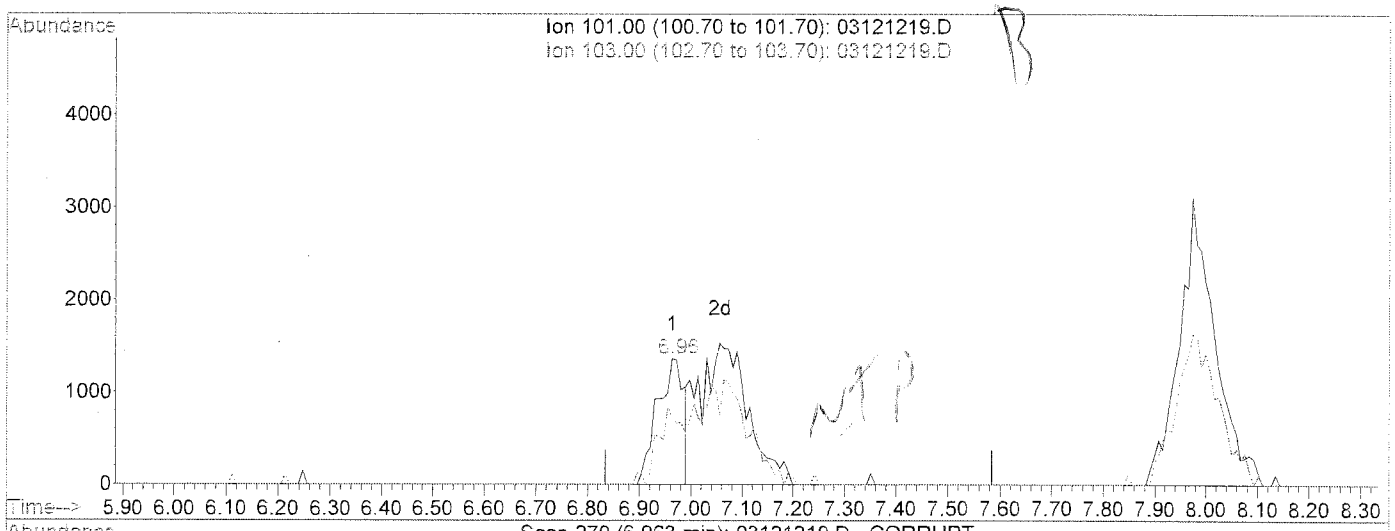
✓ 3/14/12

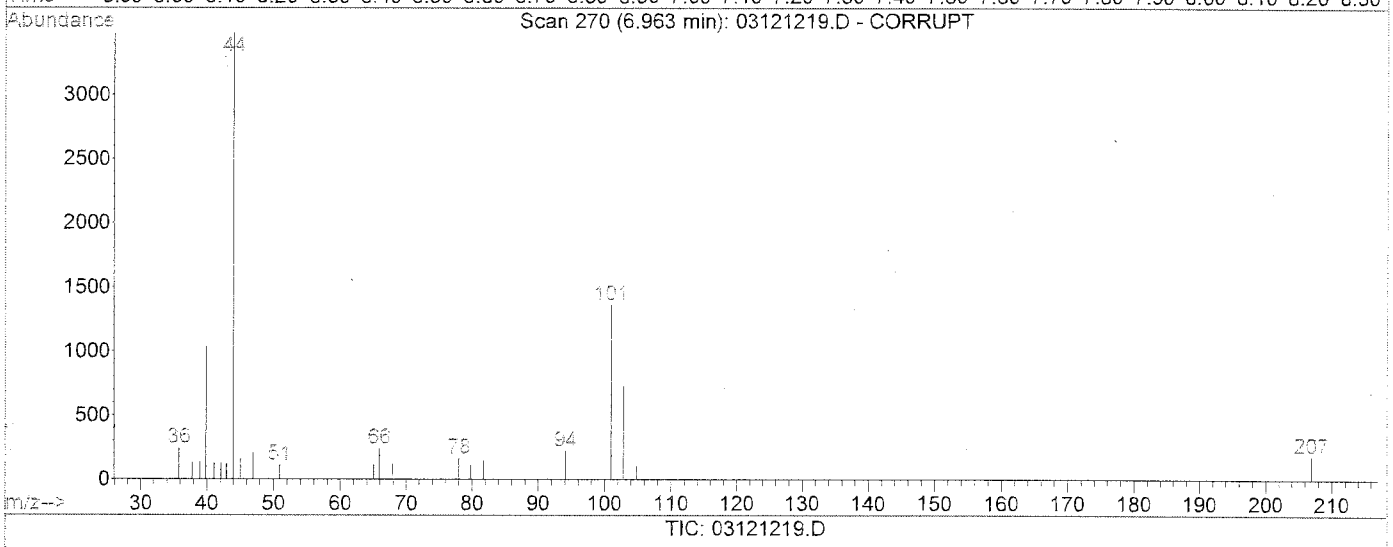
03121219.D 031212.M Wed Mar 14 10:39:26 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

6.96min 0.28ug/L

response 4757

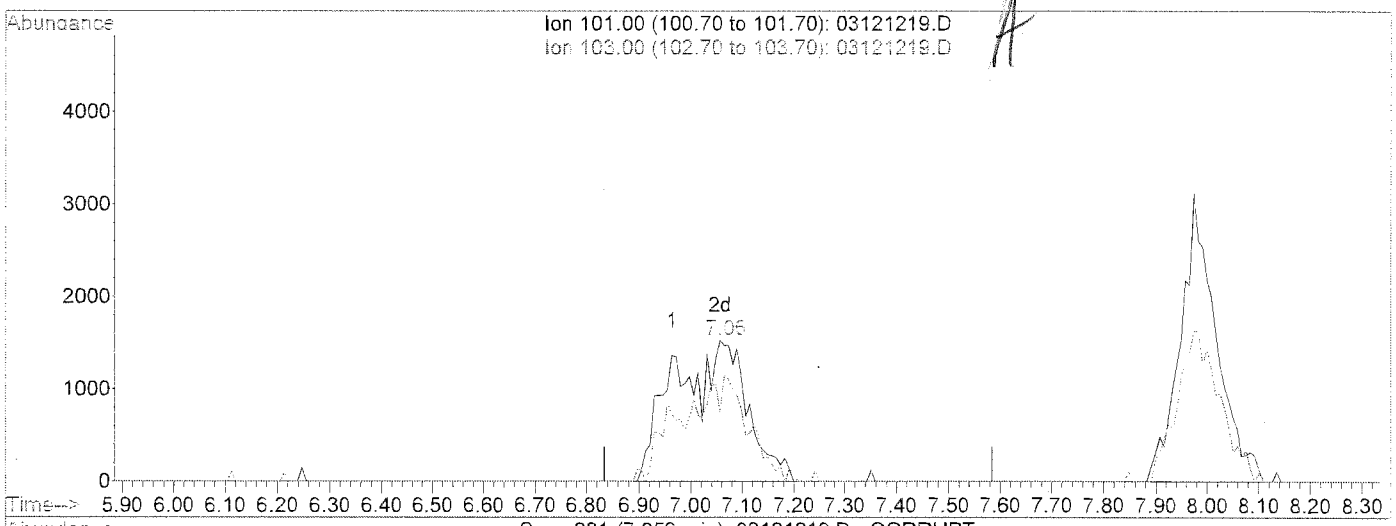
Ion	Exp%	Act%
101.00	100	100
103.00	66.40	53.34
0.00	0.00	0.00
0.00	0.00	0.00

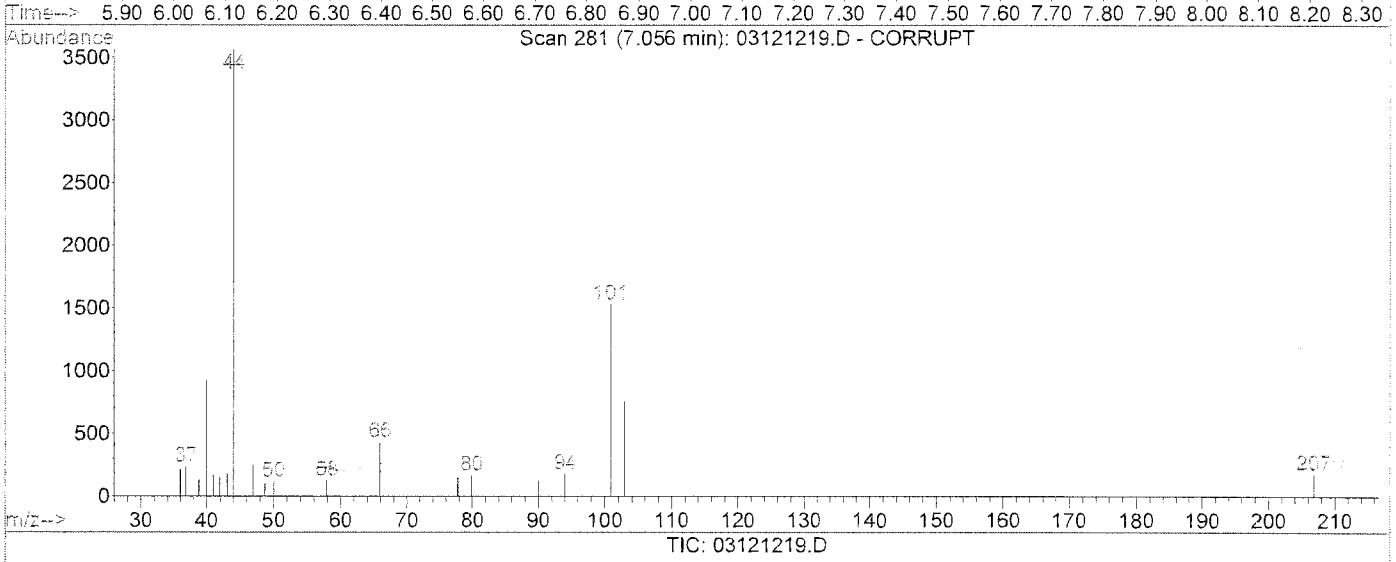
03121219.D 031212.M Wed Mar 14 10:41:51 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

7.06min 0.89ug/L m

response 14897

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	49.18#
0.00	0.00	0.00
0.00	0.00	0.00

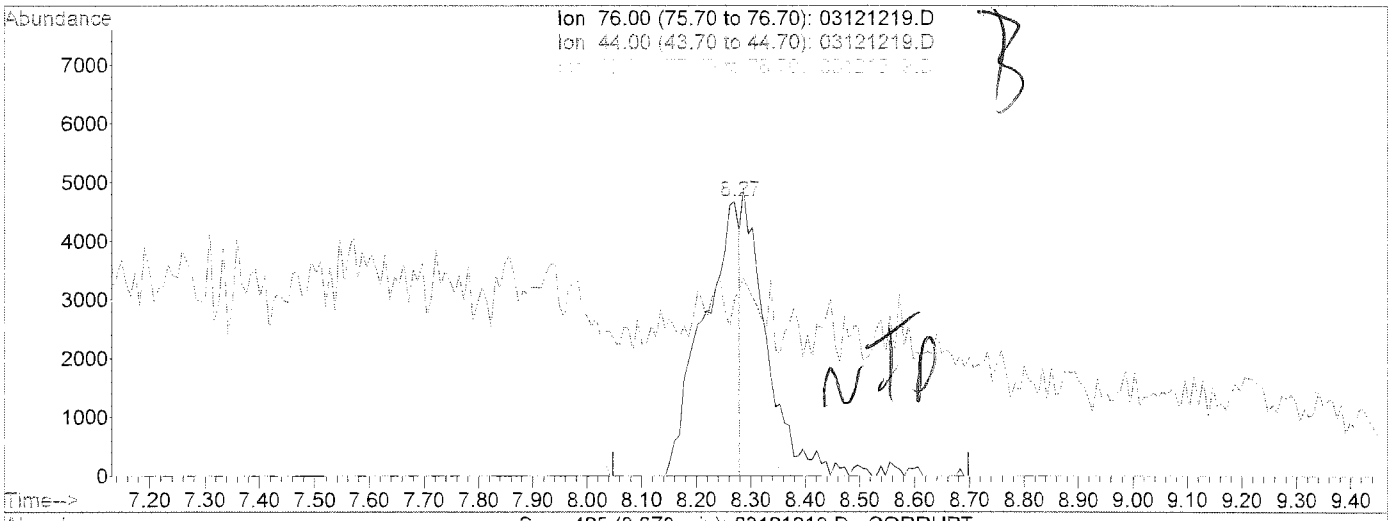
3/14/12

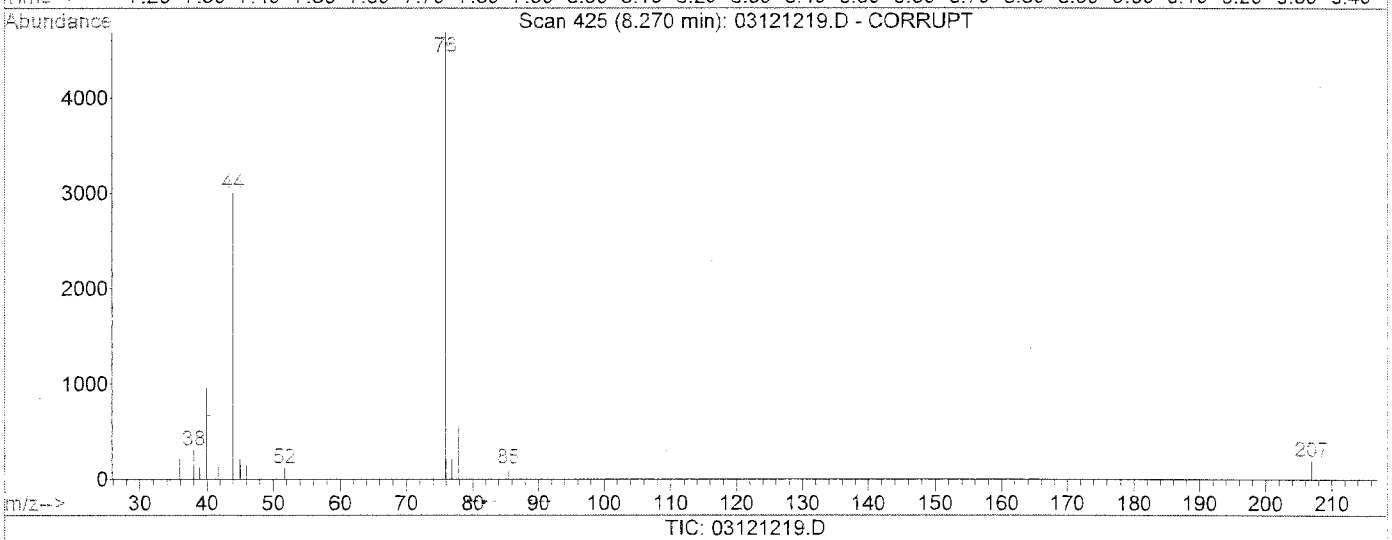
03121219.D 031212.M Wed Mar 14 10:42:00 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.27min 0.60ug/L

response 21340

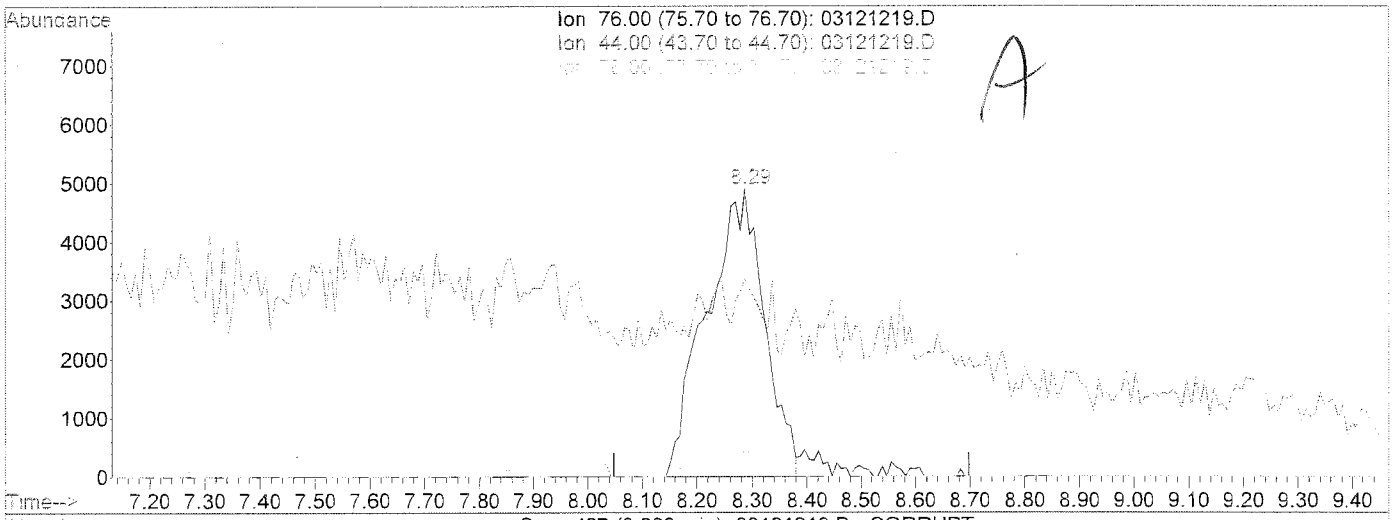
Ion	Exp%	Act%
76.00	100	100
44.00	14.20	20.11#
78.00	9.00	4.33#
0.00	0.00	0.00

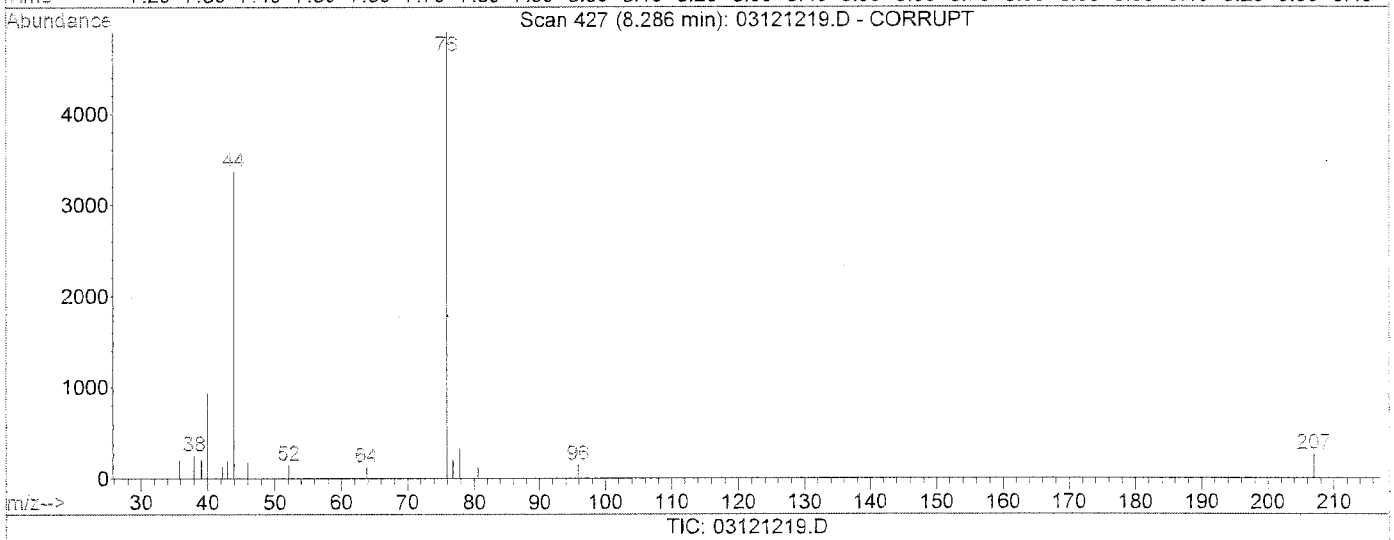
03121219.D 031212.M Wed Mar 14 10:45:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.29min 0.99ug/L m

response 35519

Ion	Exp%	Act%
76.00	100	100
44.00	14.20	12.08
78.00	9.00	2.60#
0.00	0.00	0.00

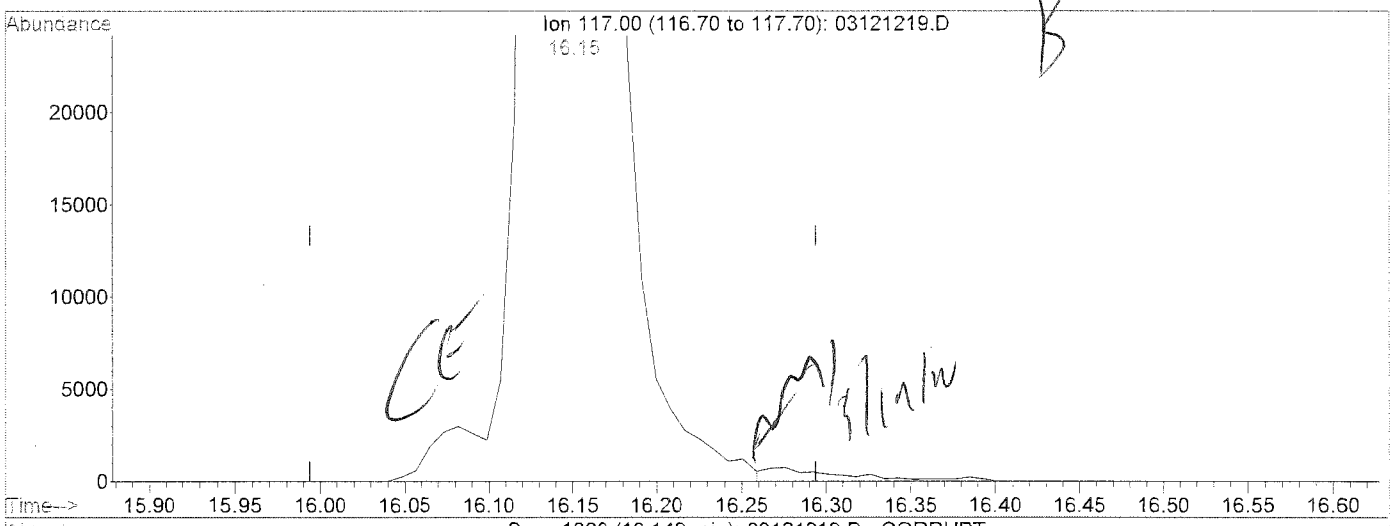
✓3/14/12

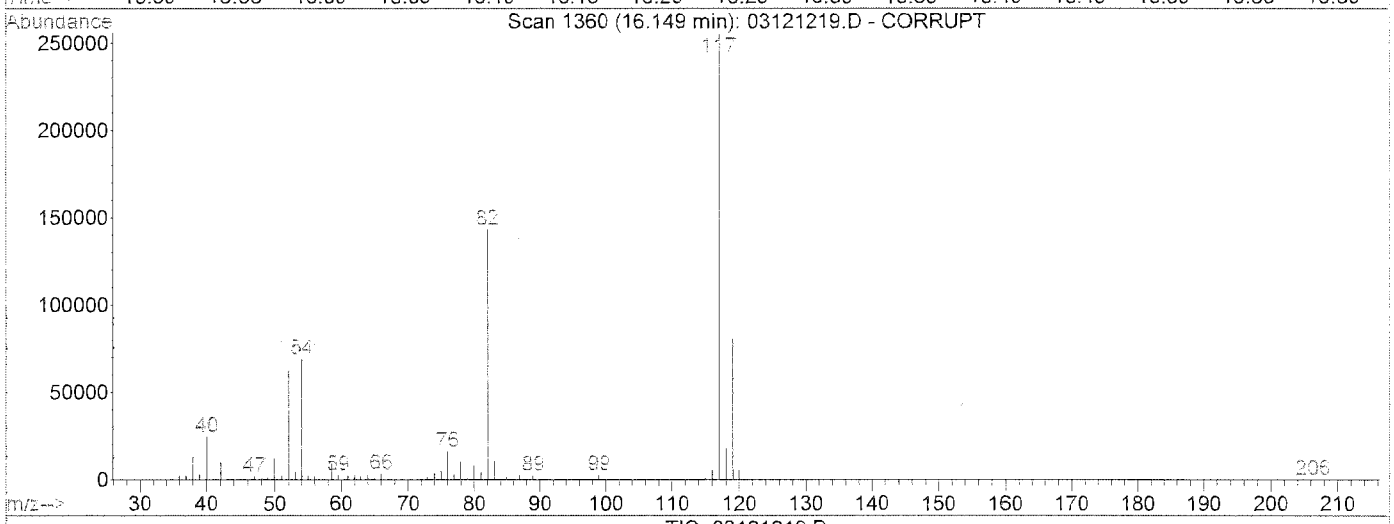
03121219.D 031212.M Wed Mar 14 10:45:12 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

response 589571

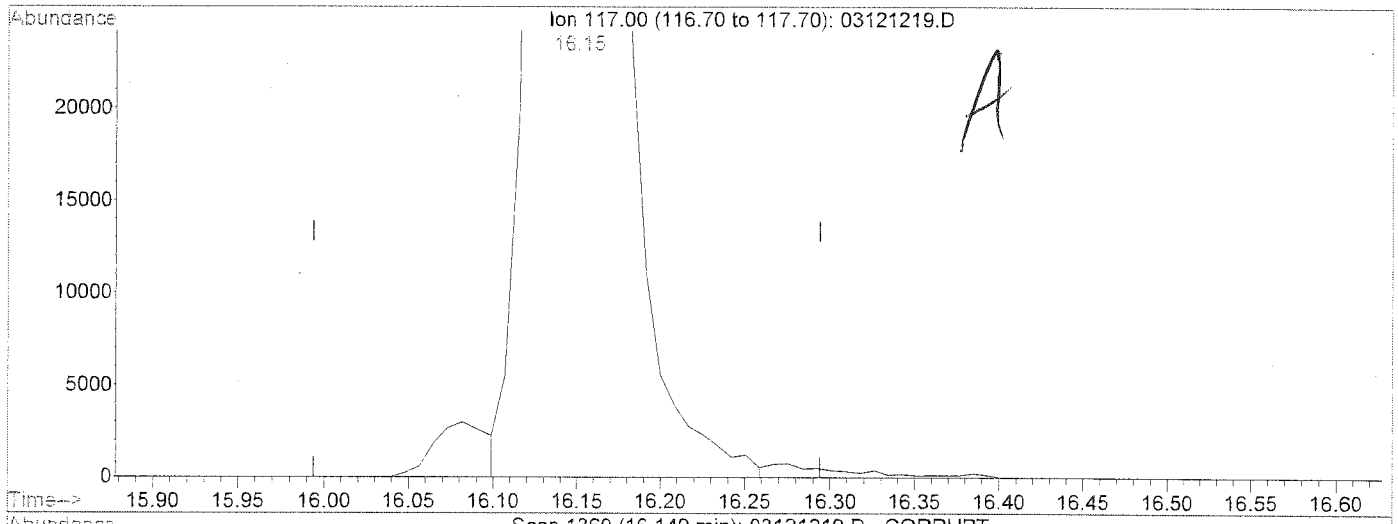
Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

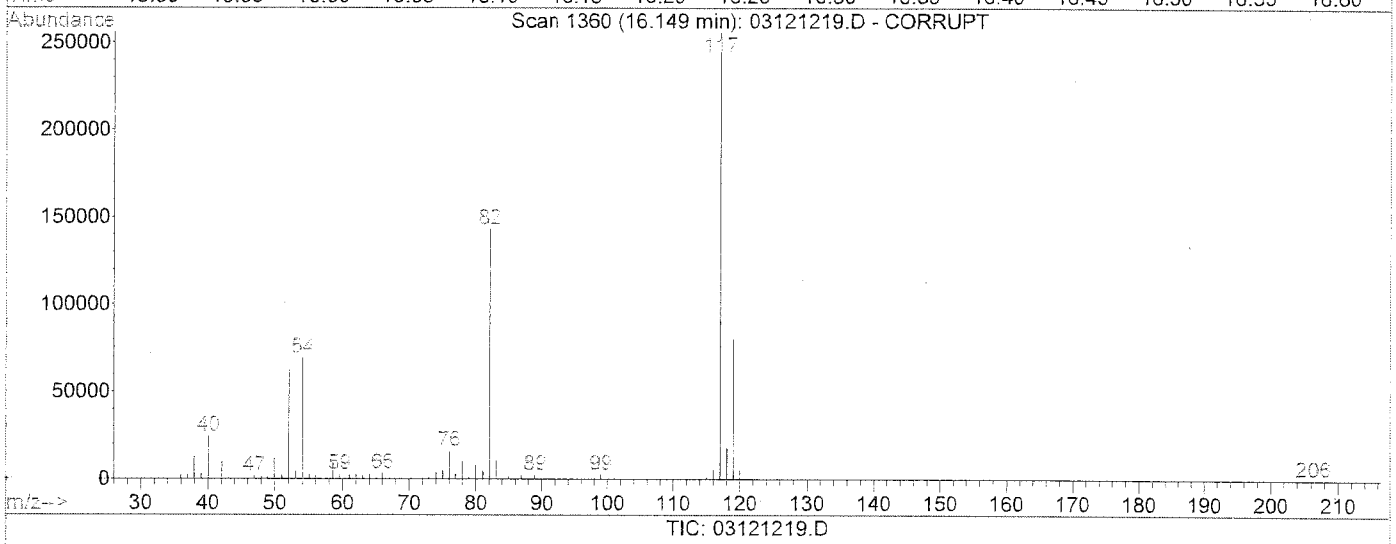
03121219.D 031212.M Wed Mar 14 10:45:29 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 582915

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

M 3/14/12

03121219.D 031212.M Wed Mar 14 10:45:35 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-Call.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	72754	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	448673	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	716558	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	582915m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	267021	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	279339	25.84 ug/L	~~0.00~~
Spiked Amount 25.000			Recovery	= 103.36%	
50) Toluene-d8 (surr)	14.19	98	794617	24.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.08%	
64) 4-Bromofluorobenzene (surr	17.83	95	293910	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.91	85	21413m	1.04 ug/L	
6) Chloromethane	5.09	50	25022	1.05 ug/L #	60
7) Vinyl Chloride	5.44	62	21516	1.08 ug/L	99
8) 1,3-Butadiene	5.56	54	11270	0.95 ug/L #	81
9) Bromomethane	5.99	94	16187	1.12 ug/L	94
10) Chloroethane	6.18	64	11509	0.98 ug/L #	71
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	14897m	0.89 ug/L	
13) Acetone	7.11	43	7816	2.14 ug/L #	85
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	20847	1.01 ug/L #	91
16) 1,1-Dichloroethene	7.71	96	13239	1.01 ug/L	95
17) Methylene Chloride	7.87	84	17454	1.09 ug/L	95
18) Freon 113	7.97	101	15093	1.04 ug/L	99
19) Carbon Disulfide	8.29	76	35519m	0.99 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	15419	1.03 ug/L	96
21) MTBE	8.86	73	21804	0.97 ug/L	94
22) 1,1-Dichloroethane	9.05	63	28971	1.08 ug/L	97
23) Vinyl Acetate	9.21	43	16328	0.85 ug/L	97
24) n-Hexane	9.56	86	2096	0.82 ug/L #	42
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.59	45	50411	1.01 ug/L	91
27) cis-1,2-Dichloroethene	9.79	96	13599	1.00 ug/L	98
28) Bromochloromethane	10.01	128	5486	1.00 ug/L	96
29) Chloroform	10.06	83	24901	1.05 ug/L	98
30) 2,2-Dichloropropane	10.16	77	14801	1.05 ug/L	87
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	26126	0.85 ug/L	95
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	16208	1.08 ug/L	95
35) 1,1,1-Trichloroethane	11.02	97	19885	1.07 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	17302	0.82 ug/L	89
38) 1,1-Dichloropropene	11.25	75	14809	0.95 ug/L	95
39) Carbon Tetrachloride	11.49	117	16377	1.02 ug/L	98
40) Benzene	11.55	78	43200	1.05 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121219.D 031212.M Wed Mar 14 10:46:14 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

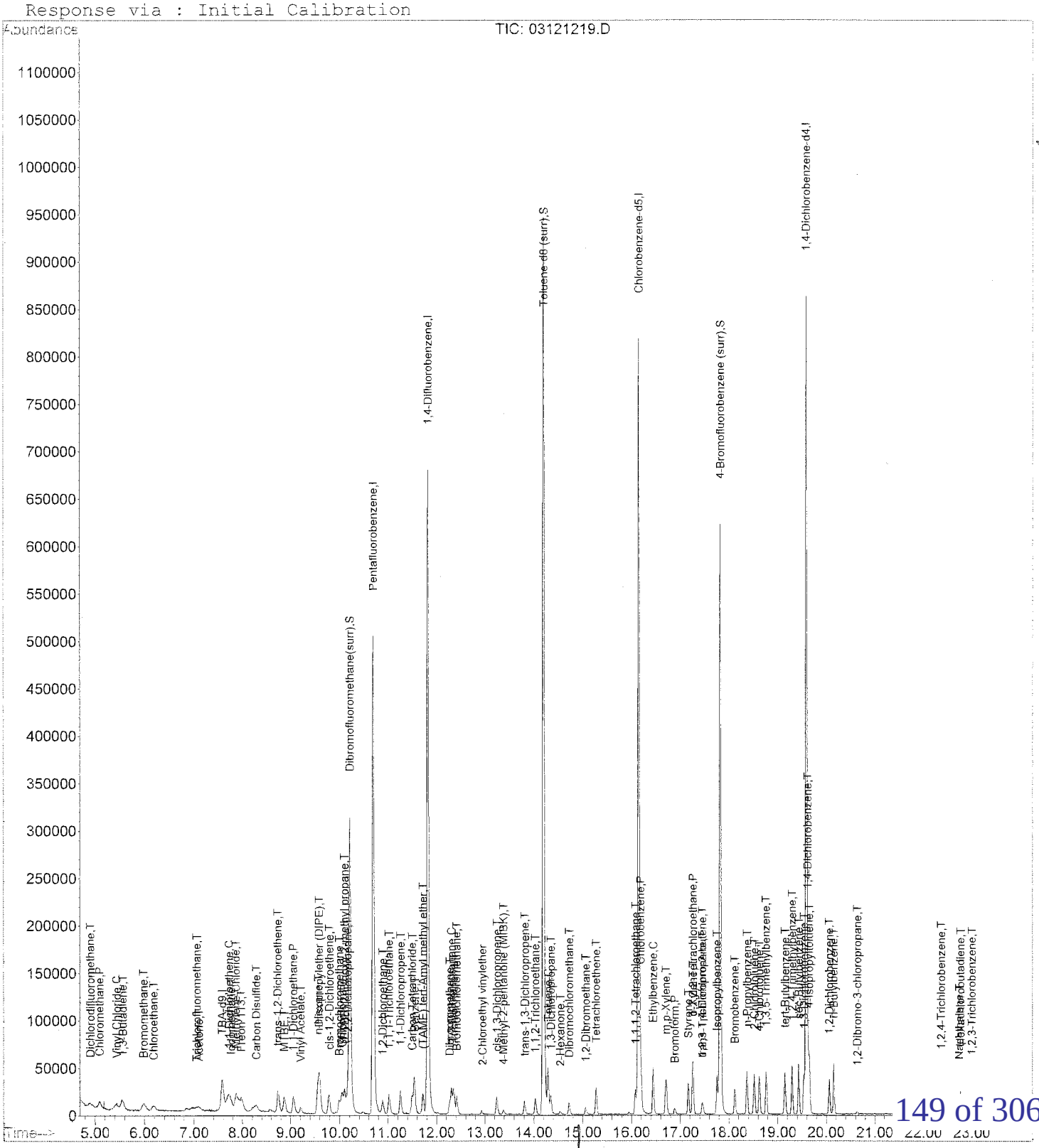
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	5874	0.98 ug/L		92
42)	1,2-Dichloropropane	12.31	63	11384	0.98 ug/L		91
43)	Trichloroethene	12.36	95	12243	1.01 ug/L		94
44)	Bromodichloromethane	12.42	83	16061	1.03 ug/L		97
45)	2-Chloroethyl vinylether	12.95	63	1878	1.82 ug/L	Deleted	81
46)	cis-1,3-Dichloropropene	13.25	75	12069	0.80 ug/L		96
47)	4-Methyl-2-pentanone (MIBK	13.39	43	5216	0.81 ug/L		97
48)	trans-1,3-Dichloropropene	13.81	75	9214	0.93 ug/L		90
49)	1,1,2-Trichloroethane	14.03	97	7074	0.99 ug/L		91
51)	Toluene	14.29	92	24904	0.98 ug/L		100
53)	1,3-Dichloropropane	14.35	76	11311	0.92 ug/L		96
54)	2-Hexanone	14.54	43	4222	0.91 ug/L	#	77
55)	Dibromochloromethane	14.73	129	8339	0.94 ug/L		94
56)	1,2-Dibromoethane	15.05	107	6938	0.98 ug/L		92
57)	Tetrachloroethene	15.28	164	8471	0.99 ug/L		97
58)	1,1,1,2-Tetrachloroethane	16.08	131	9237	0.96 ug/L		99
59)	Chlorobenzene	16.19	112	29393	1.03 ug/L	#	83
60)	Ethylbenzene	16.44	91	43261	0.96 ug/L		97
61)	m,p-Xylene	16.71	106	15936	0.90 ug/L		99
62)	Styrene	17.16	104	20132	0.84 ug/L		98
63)	o-Xylene	17.26	106	16883	0.96 ug/L		97
66)	Bromoform	16.88	173	4078	0.86 ug/L		95
67)	1,1,2,2-Tetrachloroethane	17.25	83	7870	1.12 ug/L	#	91
68)	1,2,3-Trichloropropane	17.45	110	1904	0.99 ug/L		92
69)	trans-1,4-Dichloro-2-buten	17.46	53	1973	0.82 ug/L		84
70)	Isopropylbenzene	17.76	105	33181	0.86 ug/L		100
71)	Bromobenzene	18.13	156	9105	0.93 ug/L		94
72)	n-Propylbenzene	18.37	91	45516	0.93 ug/L		98
73)	2-Chlorotoluene	18.52	91	29840	0.93 ug/L		100
74)	4-Chlorotoluene	18.62	91	30724	0.95 ug/L		99
75)	1,3,5-Trimethylbenzene	18.76	105	31941	0.90 ug/L		100
76)	tert-Butylbenzene	19.15	119	24066	0.89 ug/L		98
77)	1,2,4-Trimethylbenzene	19.29	105	32905	0.91 ug/L		100
78)	sec-Butylbenzene	19.43	105	41964	0.95 ug/L		98
79)	1,3-Dichlorobenzene	19.54	146	20175	1.04 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	20497	1.06 ug/L	#	88
81)	4-Isopropyltoluene	19.66	119	35059	0.97 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	15849	0.97 ug/L		97
83)	n-Butylbenzene	20.15	91	31338	0.93 ug/L		98
84)	1,2-Dibromo-3-chloropropan	20.63	75	951	1.02 ug/L		92
85)	1,2,4-Trichlorobenzene	22.37	180	8942	0.84 ug/L		99
86)	Naphthalene	22.72	128	9240	0.65 ug/L	Deleted	98
87)	Hexachlorobutadiene	22.76	225	6178	1.14 ug/L		97
88)	1,2,3-Trichlorobenzene	22.99	180	6725	0.81 ug/L		100

(#) = qualifier out of range (m) = manual integration
03121219.D 031212.M Wed Mar 14 10:46:14 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

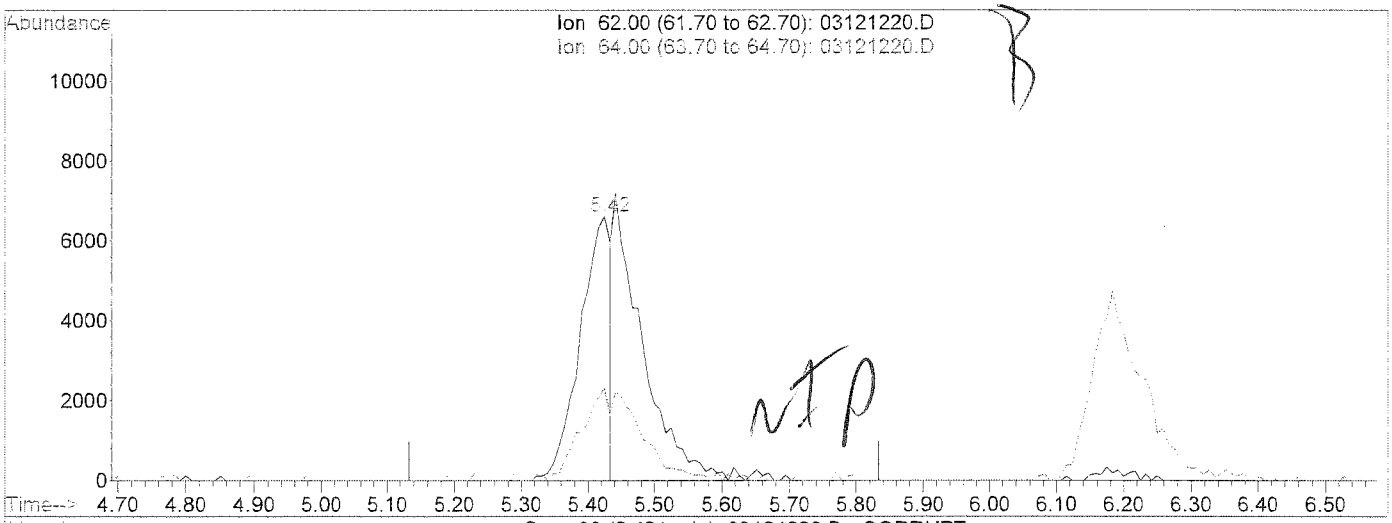
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

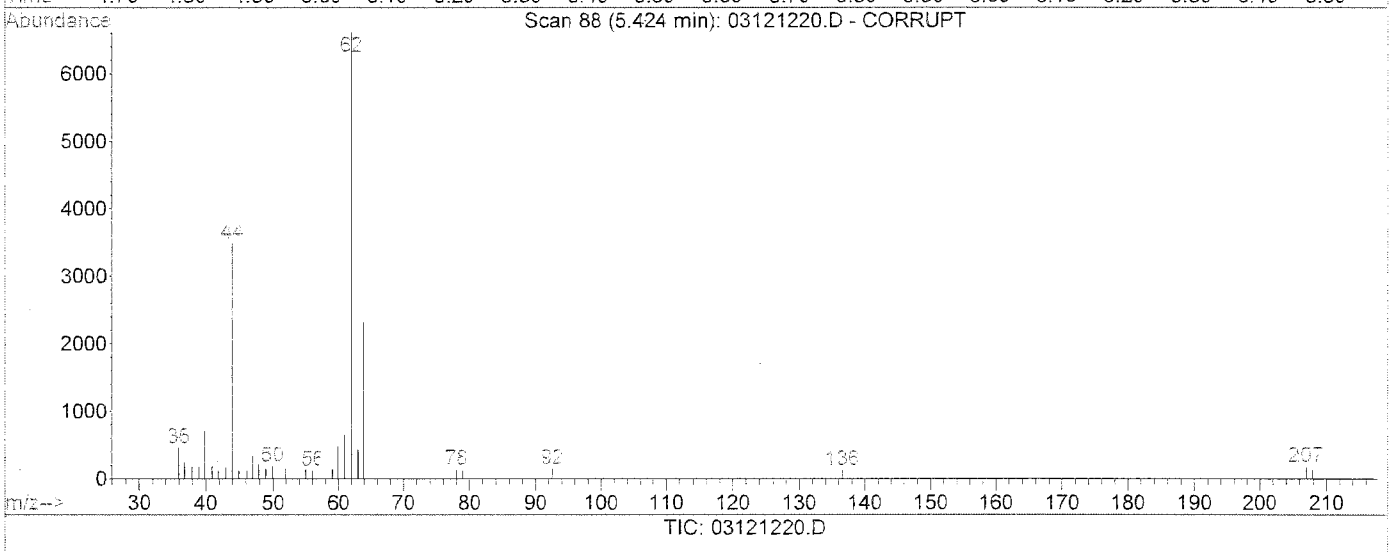


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(7) Vinyl Chloride (C)

5.42min 1.01ug/L

response 20878

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	32.60
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

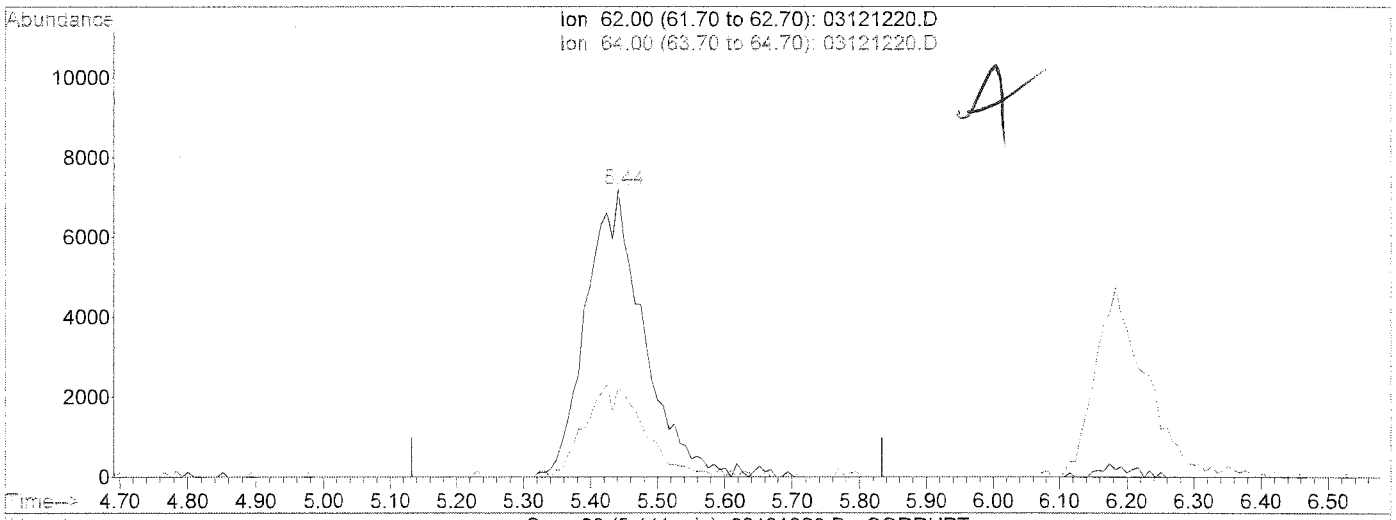
3/14/12

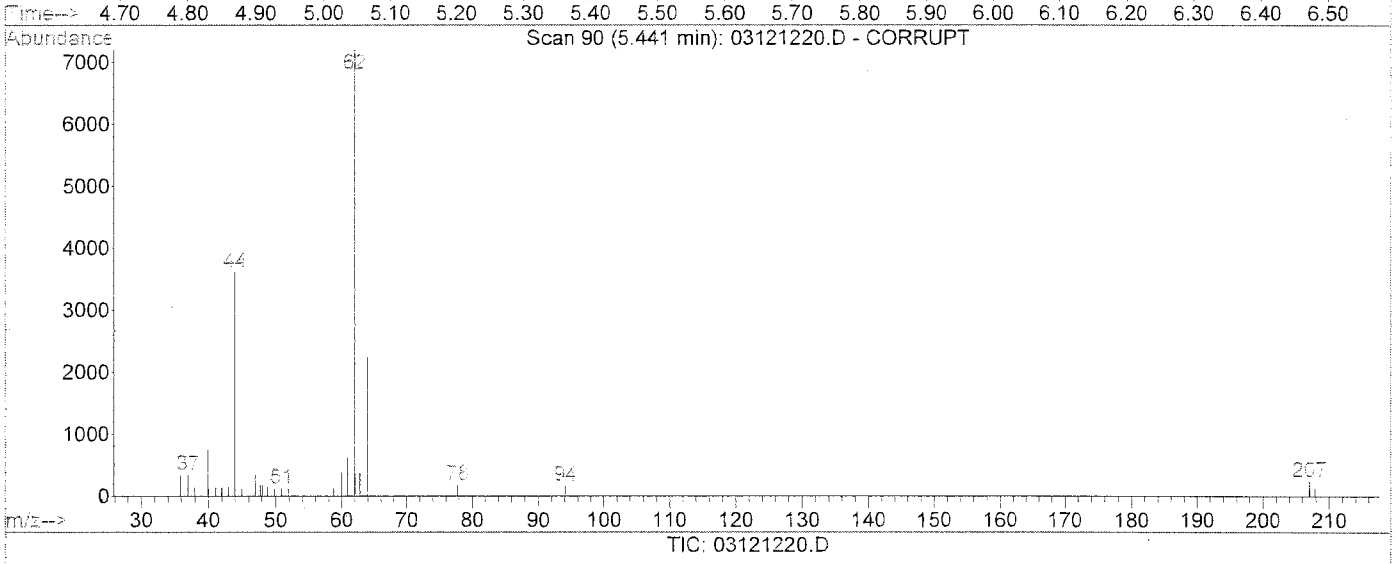
03121220.D 031212.M Wed Mar 14 10:46:27 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(7) Vinyl Chloride (C)

5.44min 2.06ug/L m

response 42603

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	15.98#
0.00	0.00	0.00
0.00	0.00	0.00

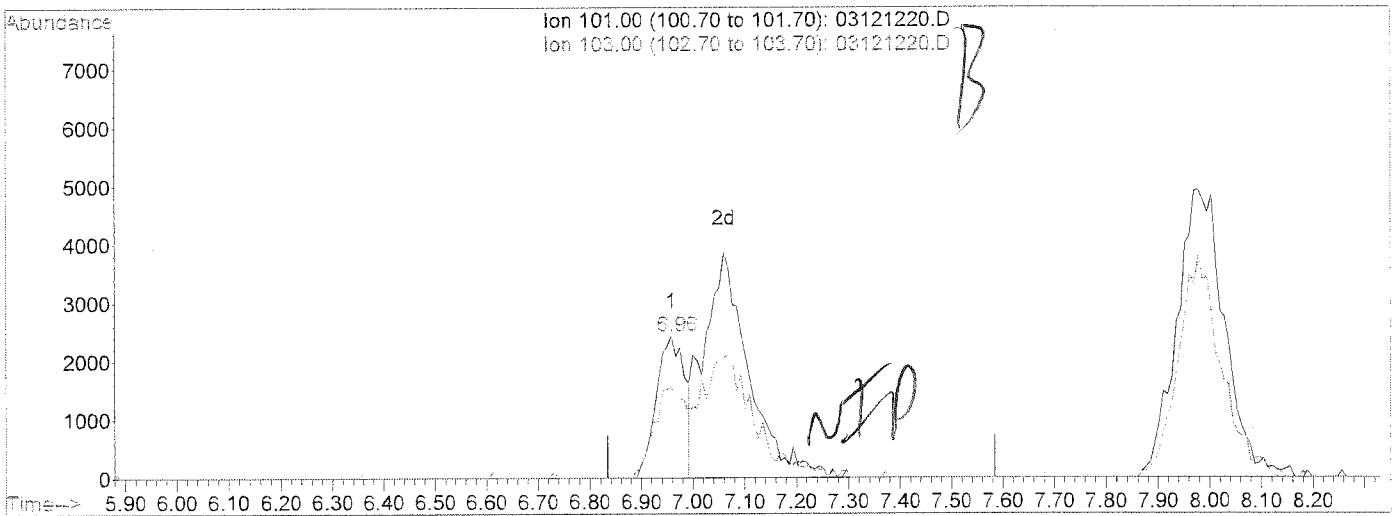
3/14/12

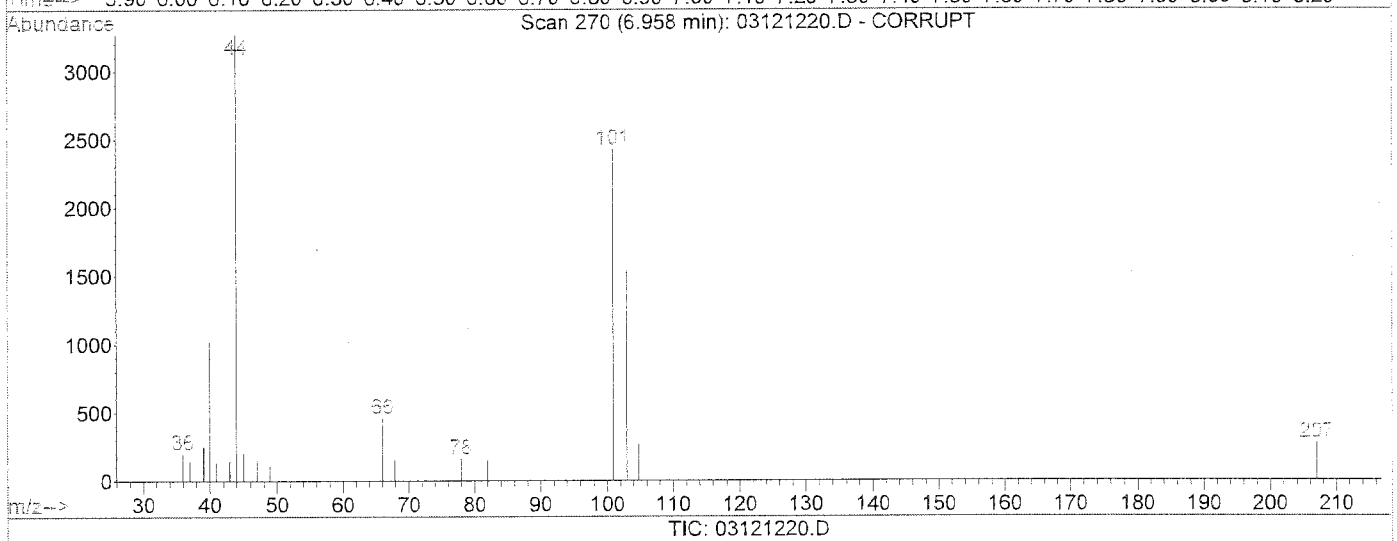
03121220.D 031212.M Wed Mar 14 10:46:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

6.96min 0.54ug/L

response 9313

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.52
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

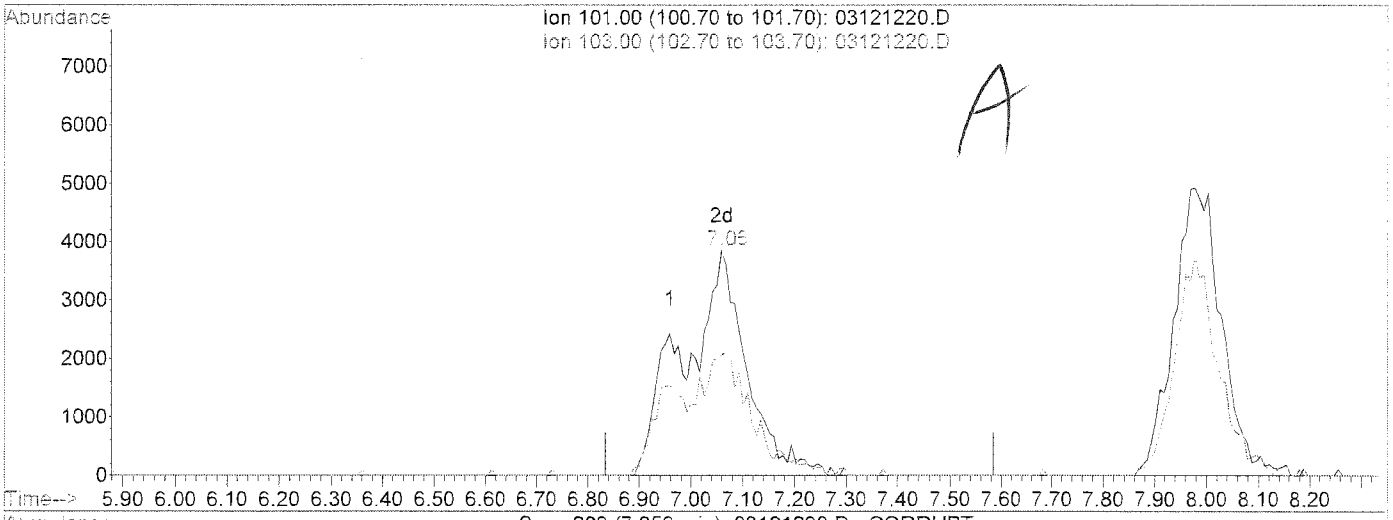
3/14/12

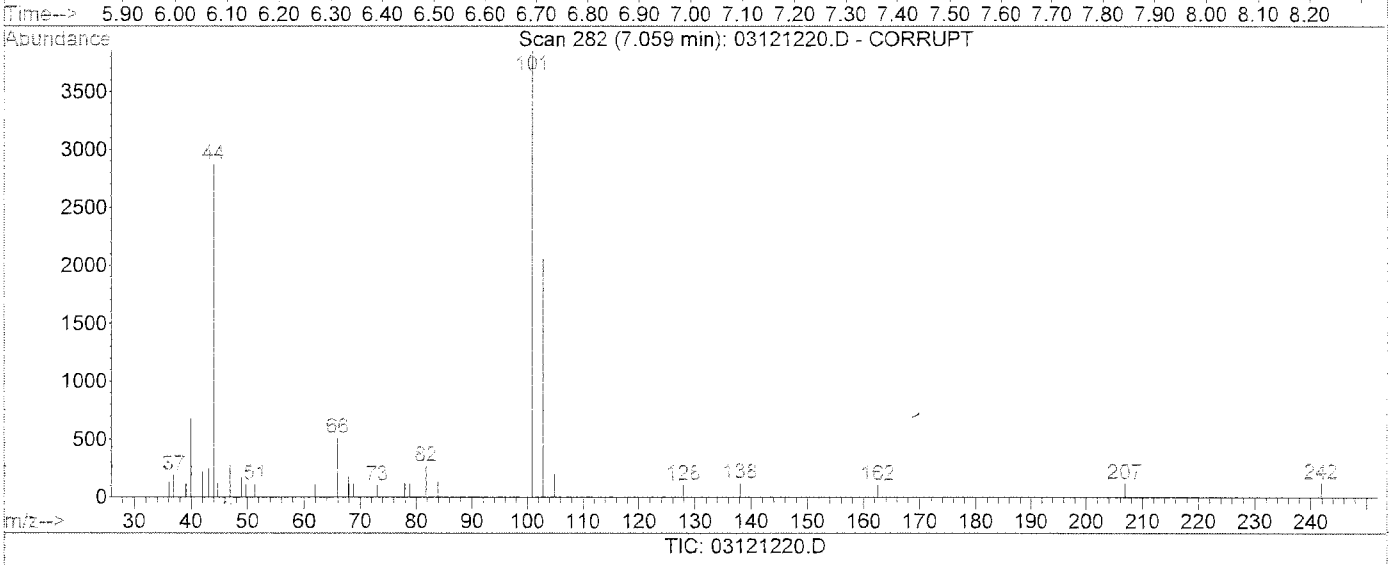
03121220.D 031212.M Wed Mar 14 10:46:41 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

7.06min 1.87ug/L m

response 32387

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	53.40
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

03121220.D 031212.M Wed Mar 14 10:46:48 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Re-calc.

Quant Method : C:\HPCHEM\1\..\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	73284	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463215	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	748251	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	591326	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	280551	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	285480	25.57 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.28%	
50) Toluene-d8 (surr)	14.20	98	825419	24.64 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.56%	
64) 4-Bromofluorobenzene (surr	17.82	95	306781	25.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.32%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.68	59	6904	10.80 ug/L #	96
5) Dichlorodifluoromethane	4.89	85	44634	2.09 ug/L	94
6) Chloromethane	5.10	50	49042	2.00 ug/L	95
7) Vinyl Chloride	5.44	62	42603m	2.06 ug/L	
8) 1,3-Butadiene	5.53	54	25257	2.07 ug/L	95
9) Bromomethane	5.97	94	30776	2.05 ug/L	96
10) Chloroethane	6.18	64	24677	2.03 ug/L	96
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	32387m	1.87 ug/L	
13) Acetone	7.10	43	10992	2.91 ug/L	90
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	42797	2.00 ug/L #	90
16) 1,1-Dichloroethene	7.70	96	26400	1.96 ug/L	96
17) Methylene Chloride	7.87	84	34592	2.10 ug/L	96
18) Freon 113	7.98	101	31500	2.10 ug/L #	86
19) Carbon Disulfide	8.27	76	74087	2.00 ug/L #	72
20) trans-1,2-Dichloroethene	8.74	96	29846	1.94 ug/L	96
21) MTBE	8.86	73	43609	1.88 ug/L	98
22) 1,1-Dichloroethane	9.06	63	58392	2.10 ug/L	98
23) Vinyl Acetate	9.21	43	35371	1.79 ug/L	99
24) n-Hexane	9.56	86	5443	2.06 ug/L	97
25) 2-Butanone (MEK)	9.60	72	1928	2.27 ug/L #	59
26) Diisopropylether (DIPE)	9.60	45	107601	2.10 ug/L	95
27) cis-1,2-Dichloroethene	9.79	96	27566	1.97 ug/L	95
28) Bromochloromethane	9.99	128	11223	1.97 ug/L	91
29) Chloroform	10.05	83	51115	2.09 ug/L	98
30) 2,2-Dichloropropane	10.16	77	31201	2.15 ug/L	92
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	61470	1.93 ug/L	100
33) Tetrahydrofuran	10.47	72	1201	2.03 ug/L #	90
34) 1,2-Dichloroethane	10.89	62	32111	2.08 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	39359	2.05 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	38967	1.79 ug/L	95
38) 1,1-Dichloropropene	11.25	75	32257	1.99 ug/L	98
39) Carbon Tetrachloride	11.49	117	35655	2.12 ug/L	98
40) Benzene	11.54	78	90359	2.10 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

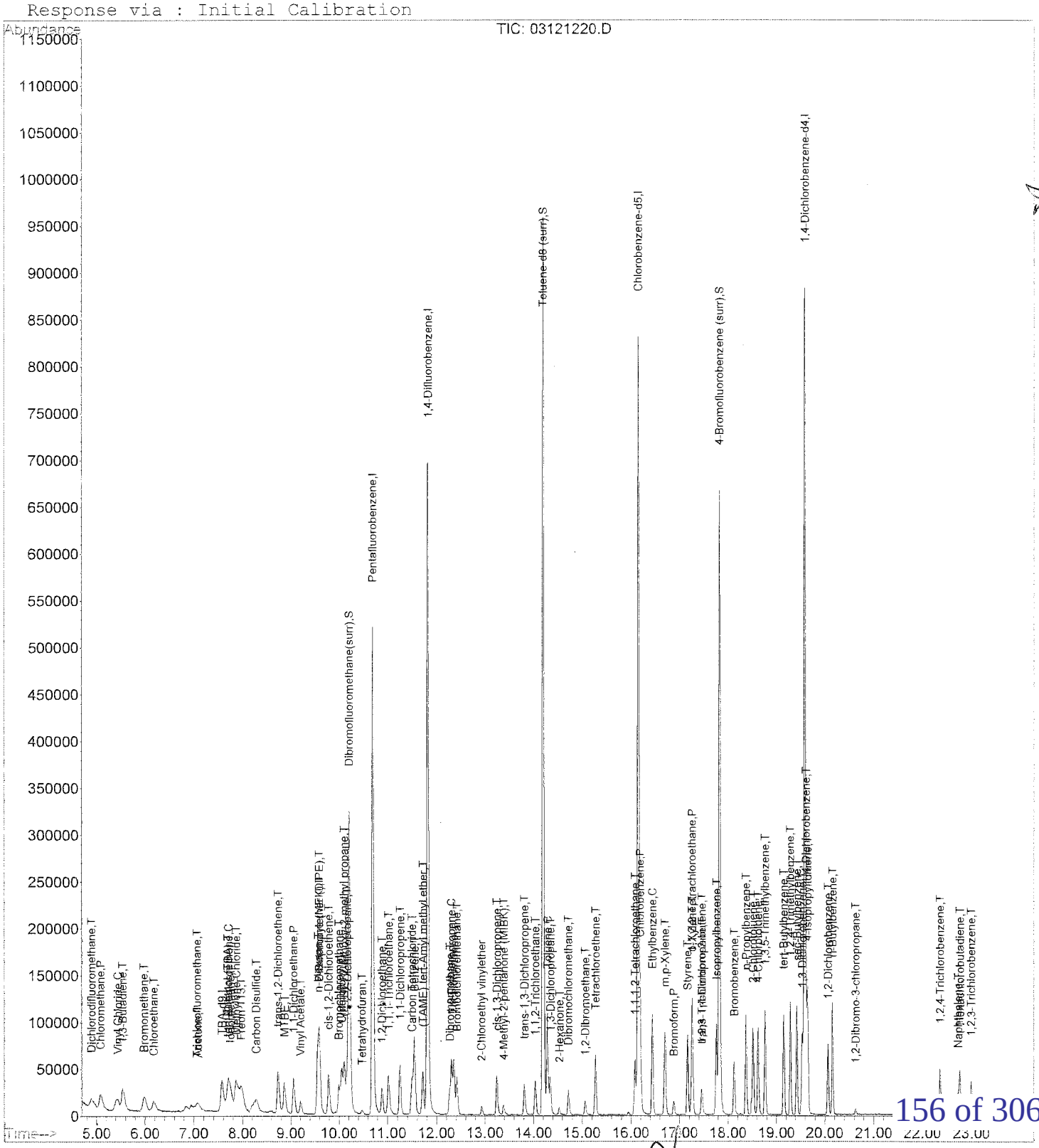
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	12797	2.05 ug/L		95
42)	1,2-Dichloropropane	12.31	63	25473	2.09 ug/L		97
43)	Trichloroethene	12.36	95	26577	2.10 ug/L		95
44)	Bromodichloromethane	12.43	83	33328	2.04 ug/L	#	99
45)	2-Chloroethyl vinylether	12.93	63	4247	2.38 ug/L		90
46)	cis-1,3-Dichloropropene	13.25	75	28087	1.79 ug/L		95
47)	4-Methyl-2-pentanone (MIBK	13.38	43	11797	1.75 ug/L		95
48)	trans-1,3-Dichloropropene	13.81	75	22365	1.85 ug/L		94
49)	1,1,2-Trichloroethane	14.03	97	15824	2.11 ug/L		97
51)	Toluene	14.29	92	52633	1.98 ug/L		96
53)	1,3-Dichloropropane	14.35	76	26016	2.09 ug/L		98
54)	2-Hexanone	14.53	43	8624	1.82 ug/L	#	84
55)	Dibromochloromethane	14.73	129	18478	2.06 ug/L		92
56)	1,2-Dibromoethane	15.07	107	13631	1.90 ug/L		99
57)	Tetrachloroethene	15.28	164	18208	2.09 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.09	131	18704	1.92 ug/L		98
59)	Chlorobenzene	16.19	112	60680	2.09 ug/L		90
60)	Ethylbenzene	16.45	91	92262	2.02 ug/L		99
61)	m,p-Xylene	16.71	106	36201	2.01 ug/L		98
62)	Styrene	17.16	104	50675	1.93 ug/L		98
63)	o-Xylene	17.26	106	37362	2.09 ug/L		94
66)	Bromoform	16.89	173	8990	1.81 ug/L		96
67)	1,1,2,2-Tetrachloroethane	17.26	83	15876	2.14 ug/L		97
68)	1,2,3-Trichloropropane	17.46	110	4139	2.05 ug/L		93
69)	trans-1,4-Dichloro-2-buten	17.47	53	4535	1.80 ug/L		90
70)	Isopropylbenzene	17.76	105	80166	1.99 ug/L		97
71)	Bromobenzene	18.12	156	19895	1.93 ug/L		99
72)	n-Propylbenzene	18.37	91	103781	2.01 ug/L		99
73)	2-Chlorotoluene	18.51	91	69000	2.04 ug/L		98
74)	4-Chlorotoluene	18.62	91	70875	2.09 ug/L		99
75)	1,3,5-Trimethylbenzene	18.77	105	75711	2.02 ug/L		100
76)	tert-Butylbenzene	19.14	119	56518	1.99 ug/L		98
77)	1,2,4-Trimethylbenzene	19.29	105	76586	2.01 ug/L		98
78)	sec-Butylbenzene	19.43	105	95626	2.05 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	43036	2.11 ug/L		99
80)	1,4-Dichlorobenzene	19.62	146	43207	2.12 ug/L		97
81)	4-Isopropyltoluene	19.66	119	78136	2.06 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	34046	1.99 ug/L		99
83)	n-Butylbenzene	20.16	91	74103	2.08 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.63	75	1790	1.83 ug/L		93
85)	1,2,4-Trichlorobenzene	22.36	180	20855	1.86 ug/L		97
86)	Naphthalene	22.72	128	22332	1.49 ug/L		97
87)	Hexachlorobutadiene	22.76	225	12273	2.15 ug/L		97
88)	1,2,3-Trichlorobenzene	22.99	180	15807	1.82 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

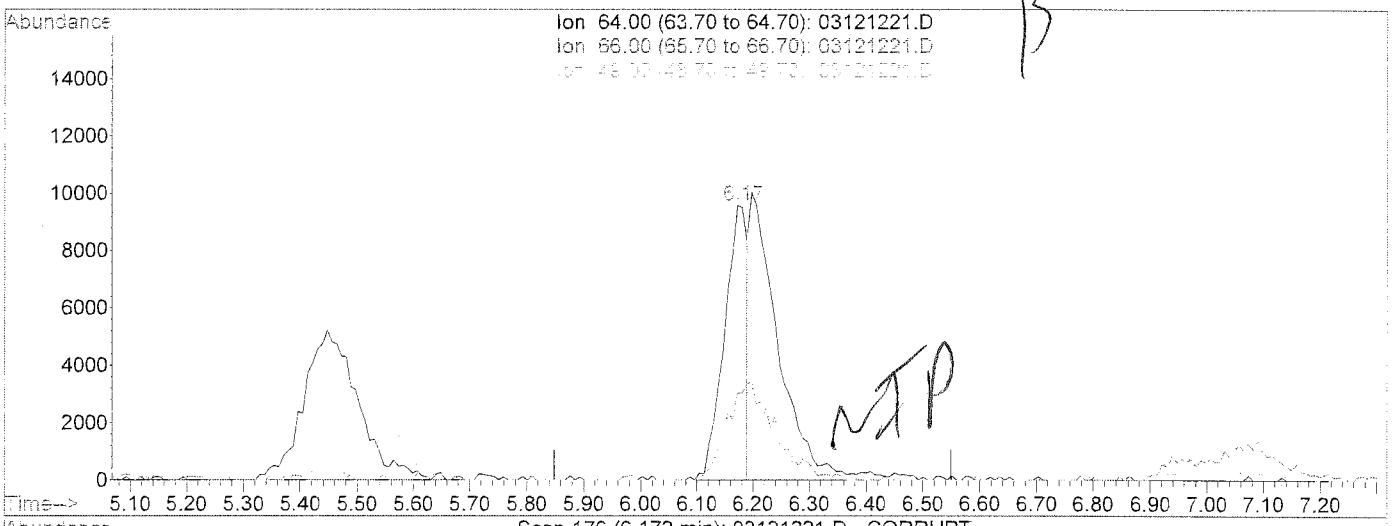


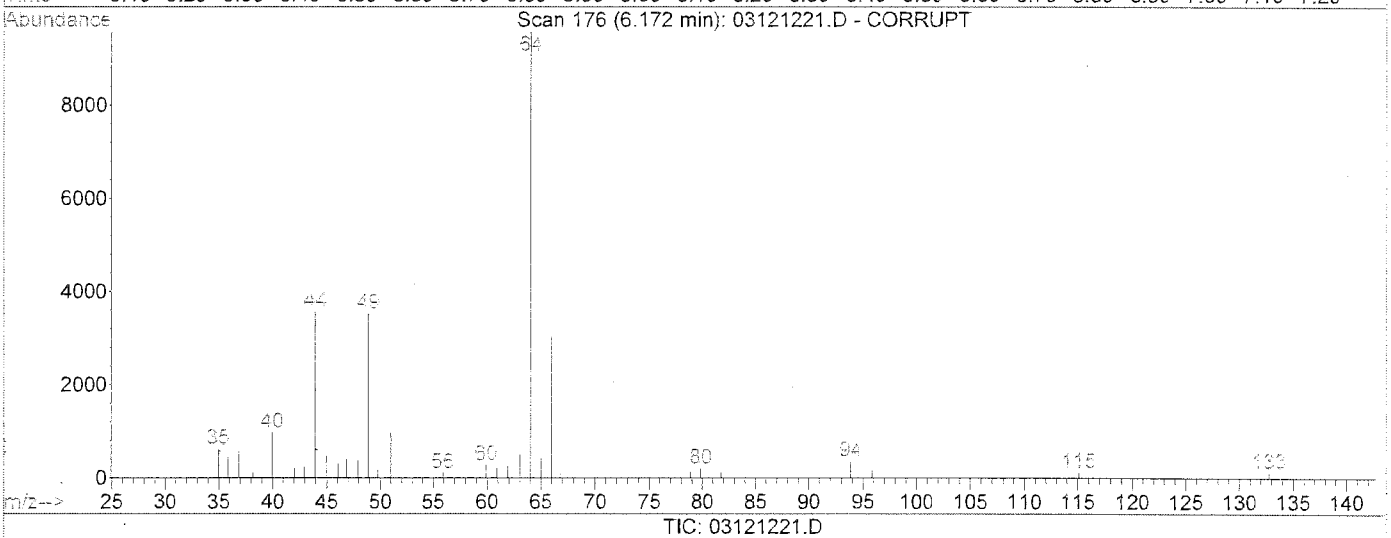
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





TIC: 03121221.D

(10) Chloroethane (T)

6.17min 2.23ug/L

response 27088

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	69.91#
49.00	32.00	75.57#
0.00	0.00	0.00

✓3/14/12

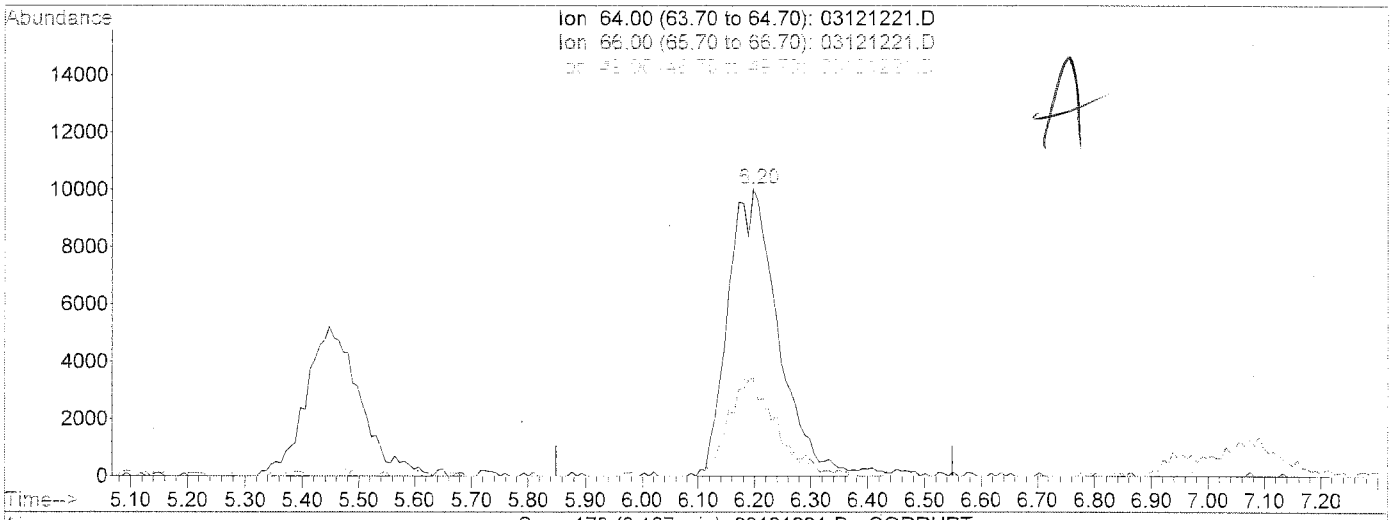
M 4/14/12

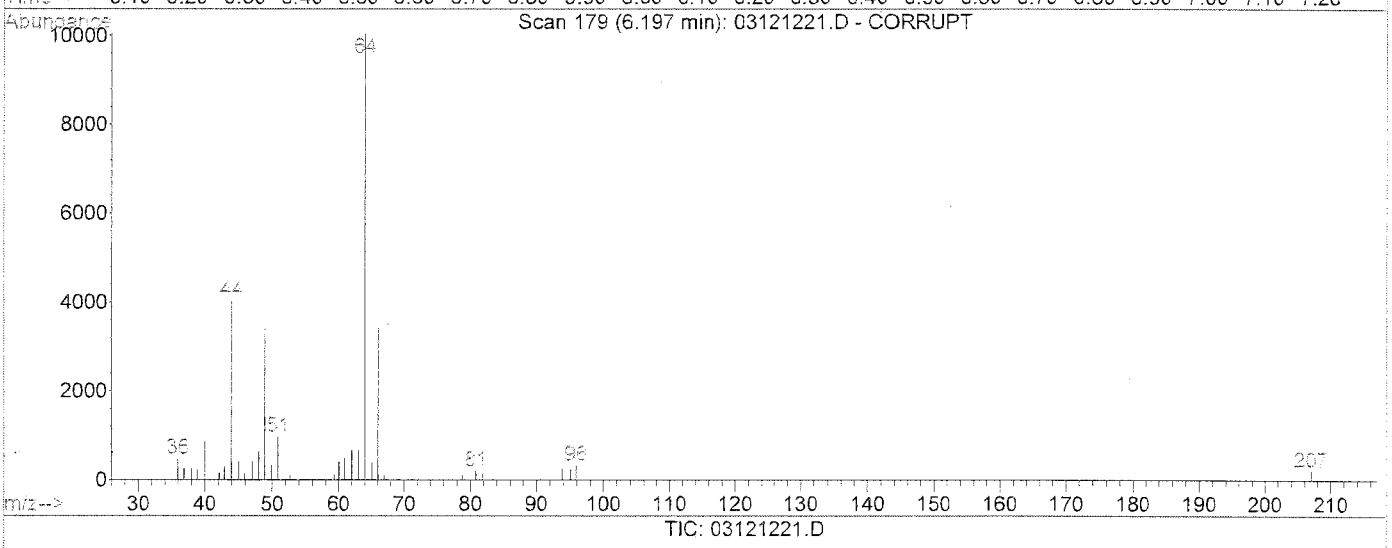
03121221.D 031212.M Wed Mar 14 10:47:34 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.20min 5.09ug/L m

response 61778

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	30.65
49.00	32.00	33.14
0.00	0.00	0.00

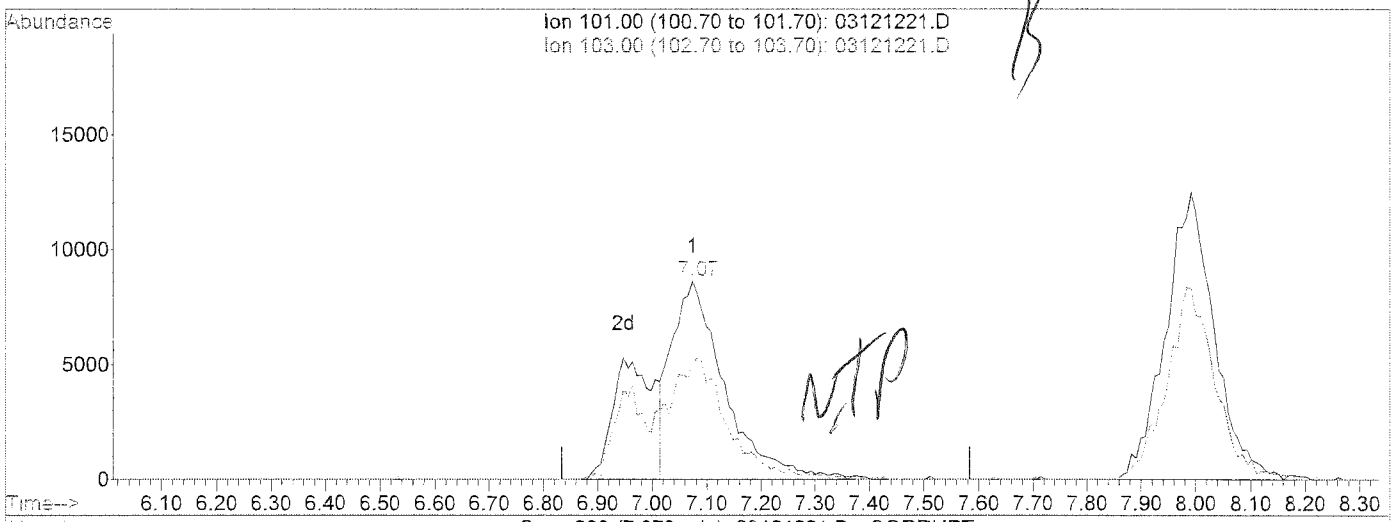
03/14/12

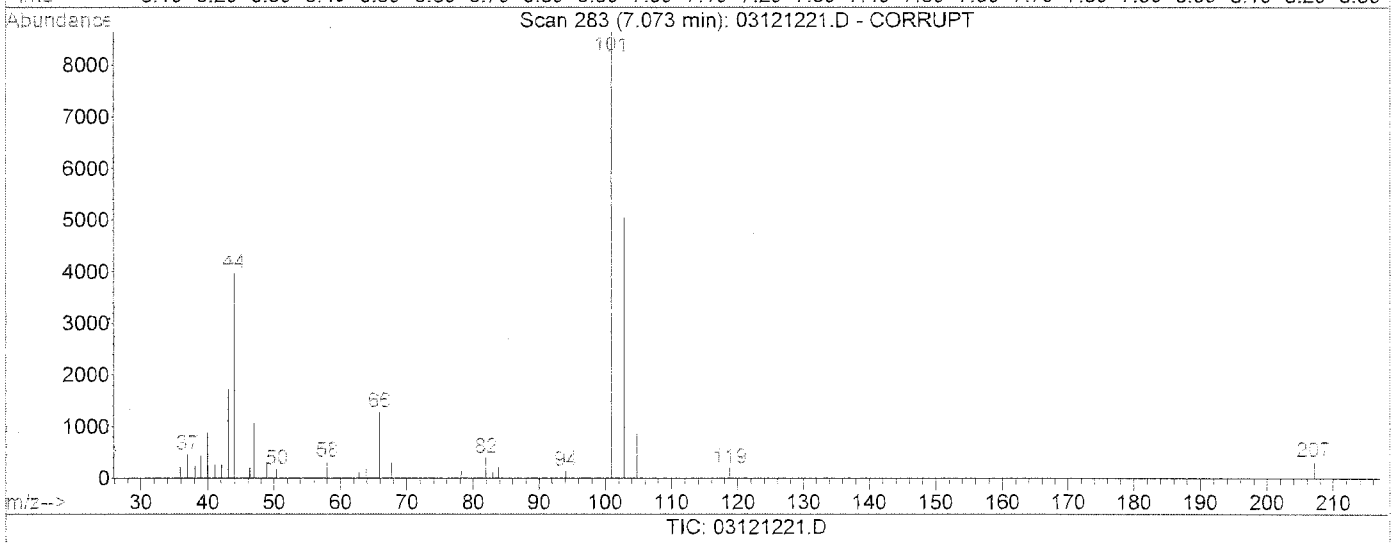
03121221.D 031212.M Wed Mar 14 10:47:45 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.07min 3.33ug/L

response 57654

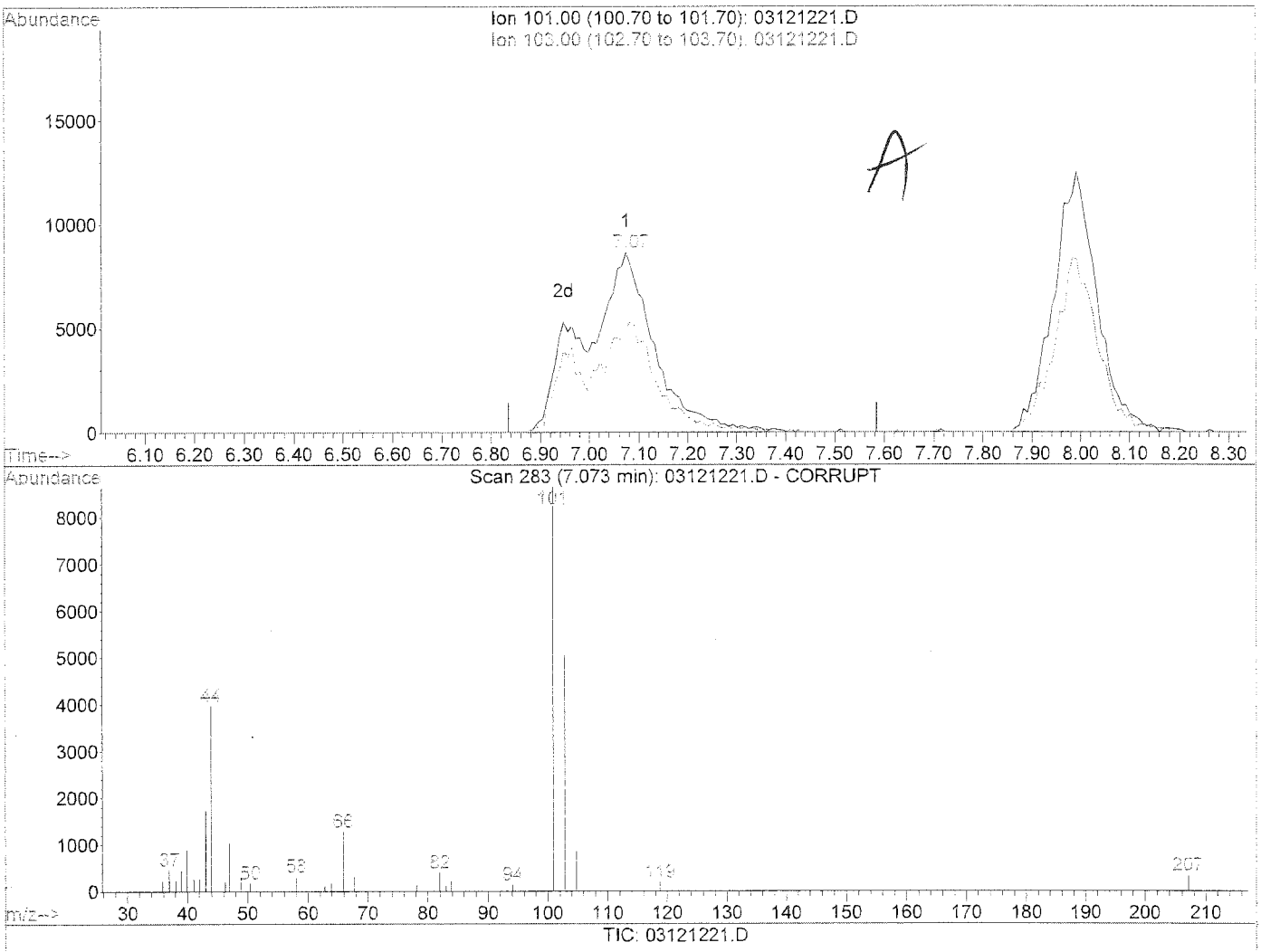
Ion	Exp%	Act%
101.00	100	100
103.00	66.40	57.48
0.00	0.00	0.00
0.00	0.00	0.00

03121221.D 031212.M Wed Mar 14 10:47:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

✓ 3/14/12

7.07min 4.93ug/L m

response 85242

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	58.23
0.00	0.00	0.00
0.00	0.00	0.00

03121221.D 031212.M Wed Mar 14 10:47:58 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Re-calc, 3/14/12 NTP 4/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	76456	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463012	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	766030	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	620178	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	292085	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	291596	26.13 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.52%	
50) Toluene-d8 (surr)	14.19	98	857389	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
64) 4-Bromofluorobenzene (surr	17.82	95	317771	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.08%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	1624	33.97 ug/L Dilution	92
3) tert-Butanol (TBA)	7.69	59	16460	24.67 ug/L #	95
5) Dichlorodifluoromethane	4.91	85	110753	5.19 ug/L #	64
6) Chloromethane	5.09	50	133575	5.45 ug/L	99
7) Vinyl Chloride	5.46	62	107498	5.21 ug/L	99
8) 1,3-Butadiene	5.56	54	62405	5.11 ug/L	94
9) Bromomethane	5.99	94	77153	5.15 ug/L	99
10) Chloroethane	6.20	64	61778m	5.09 ug/L	
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	85242m	4.93 ug/L	
13) Acetone	7.12	43	20732	5.50 ug/L	93
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	106266	4.96 ug/L #	70
16) 1,1-Dichloroethene	7.71	96	68803	5.10 ug/L	99
17) Methylene Chloride	7.87	84	83429	5.06 ug/L	96
18) Freon 113	7.99	101	77474	5.17 ug/L	100
19) Carbon Disulfide	8.30	76	185994	5.03 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	77181	5.01 ug/L	99
21) MTBE	8.87	73	114445	4.93 ug/L	99
22) 1,1-Dichloroethane	9.05	63	143370	5.16 ug/L	98
23) Vinyl Acetate	9.21	43	95240	4.81 ug/L	99
24) n-Hexane	9.55	86	14318	5.42 ug/L #	88
25) 2-Butanone (MEK)	9.59	72	4227	4.98 ug/L #	99
26) Diisopropylether (DIPE)	9.59	45	283282	5.52 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	74121	5.30 ug/L	100
28) Bromochloromethane	9.99	128	30183	5.31 ug/L	98
29) Chloroform	10.05	83	131665	5.39 ug/L	99
30) 2,2-Dichloropropane	10.16	77	78511	5.41 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	167086	5.25 ug/L	99
33) Tetrahydrofuran	10.48	72	2388	4.04 ug/L #	80
34) 1,2-Dichloroethane	10.89	62	81294	5.27 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	101670	5.30 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	108456	4.97 ug/L	97
38) 1,1-Dichloropropene	11.25	75	85300	5.14 ug/L	96
39) Carbon Tetrachloride	11.49	117	87189	5.07 ug/L	100
40) Benzene	11.54	78	227850	5.17 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

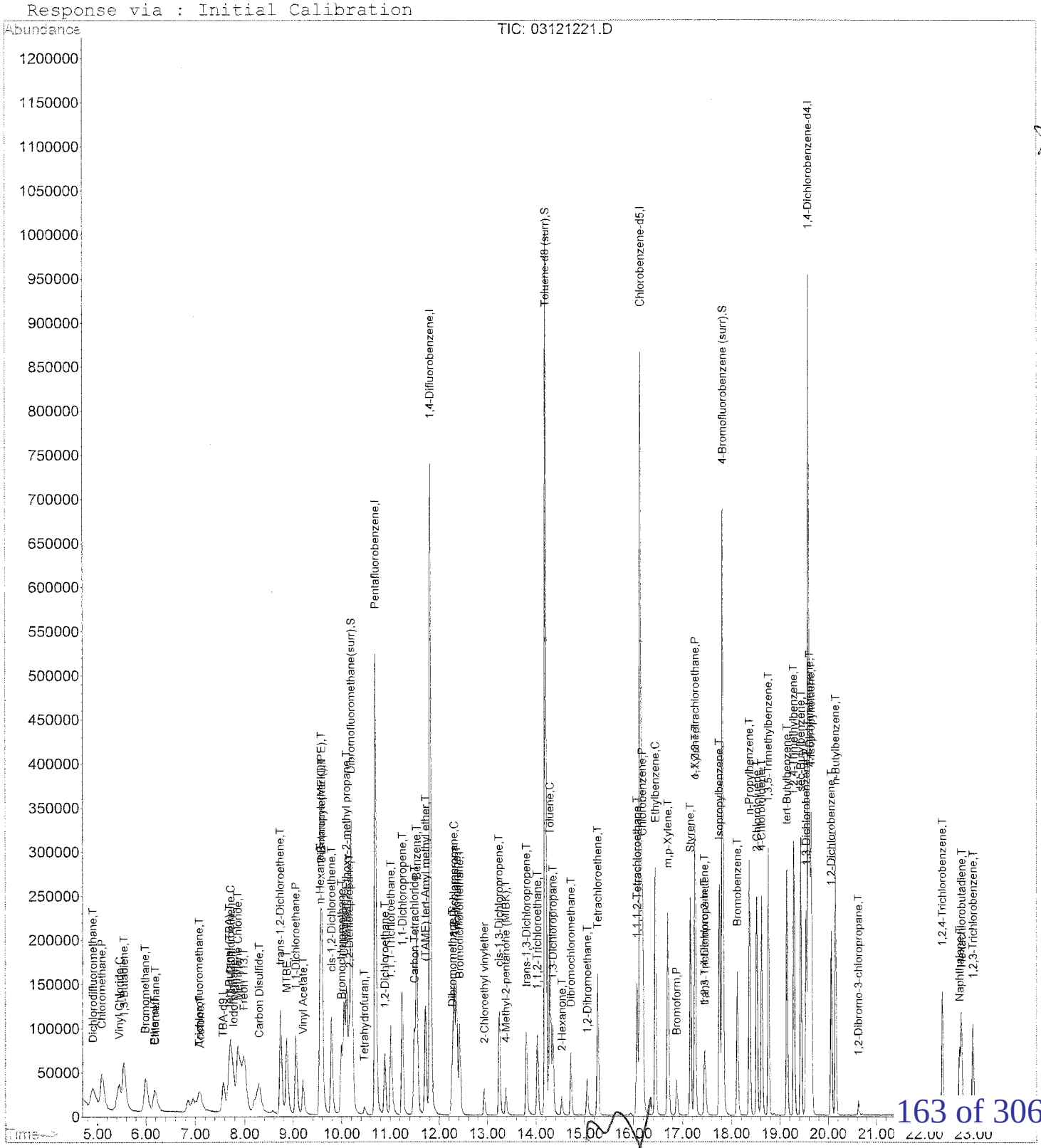
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	32809	5.13 ug/L	95
42) 1,2-Dichloropropane	12.31	63	66874	5.37 ug/L	99
43) Trichloroethene	12.36	95	66318	5.12 ug/L	99
44) Bromodichloromethane	12.42	83	87395	5.23 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	13618	4.58 ug/L	97
46) cis-1,3-Dichloropropene	13.25	75	81492	5.07 ug/L	96
47) 4-Methyl-2-pentanone (MIBK	13.39	43	33121	4.79 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	64880	4.82 ug/L	98
49) 1,1,2-Trichloroethane	14.03	97	38043	4.96 ug/L	97
51) Toluene	14.29	92	140038	5.14 ug/L	99
53) 1,3-Dichloropropane	14.35	76	67621	5.17 ug/L	98
54) 2-Hexanone	14.53	43	21791	4.39 ug/L	93
55) Dibromochloromethane	14.73	129	45499	4.84 ug/L	95
56) 1,2-Dibromoethane	15.06	107	36882	4.90 ug/L	99
57) Tetrachloroethene	15.27	164	45975	5.04 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.08	131	52677	5.15 ug/L	97
59) Chlorobenzene	16.19	112	153626	5.04 ug/L	96
60) Ethylbenzene	16.44	91	251471	5.25 ug/L	98
61) m,p-Xylene	16.71	106	96619	5.11 ug/L	98
62) Styrene	17.16	104	146562	5.15 ug/L	99
63) o-Xylene	17.26	106	100123	5.35 ug/L	99
66) Bromoform	16.88	173	24730	4.78 ug/L	96
67) 1,1,2,2-Tetrachloroethane	17.25	83	38632	5.01 ug/L	97
68) 1,2,3-Trichloropropane	17.45	110	10077	4.80 ug/L	97
69) trans-1,4-Dichloro-2-buten	17.46	53	12132	4.62 ug/L	97
70) Isopropylbenzene	17.76	105	221366	5.28 ug/L	99
71) Bromobenzene	18.12	156	52617	4.91 ug/L	95
72) n-Propylbenzene	18.37	91	285262	5.30 ug/L	100
73) 2-Chlorotoluene	18.52	91	182947	5.20 ug/L	99
74) 4-Chlorotoluene	18.62	91	185869	5.25 ug/L	100
75) 1,3,5-Trimethylbenzene	18.76	105	209539	5.37 ug/L	99
76) tert-Butylbenzene	19.15	119	158073	5.34 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	213299	5.39 ug/L	99
78) sec-Butylbenzene	19.43	105	261719	5.39 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	108274	5.09 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	106754	5.02 ug/L	98
81) 4-Isopropyltoluene	19.66	119	210465	5.33 ug/L	99
82) 1,2-Dichlorobenzene	20.06	146	92430	5.20 ug/L	100
83) n-Butylbenzene	20.15	91	200959	5.43 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	4941	4.86 ug/L	99
85) 1,2,4-Trichlorobenzene	22.37	180	59825	5.13 ug/L	99
86) Naphthalene	22.72	128	72945	4.66 ug/L	99
87) Hexachlorobutadiene	22.76	225	30626	5.15 ug/L	97
88) 1,2,3-Trichlorobenzene	22.99	180	47537	5.27 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121221.D 031212.M Wed Mar 14 10:48:12 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

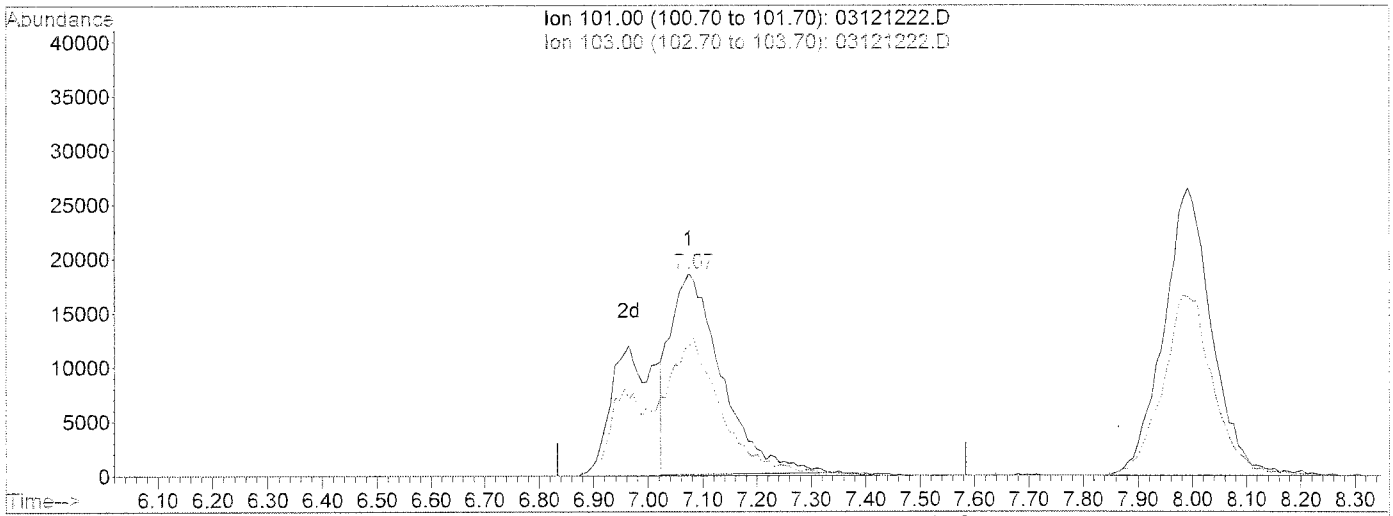
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

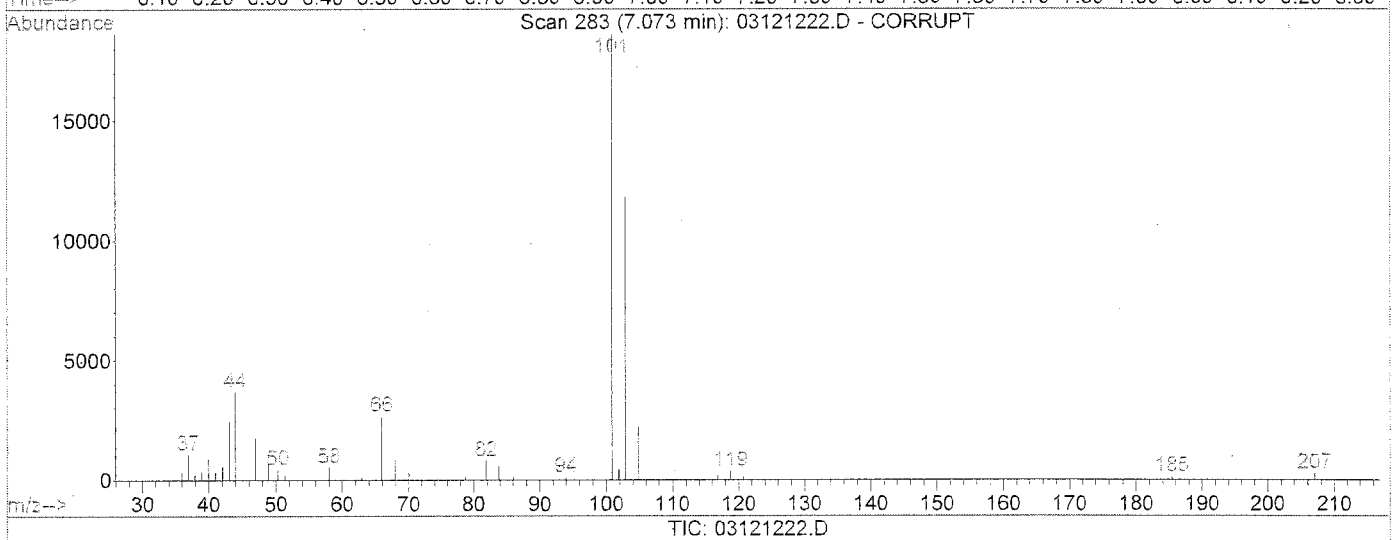


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 6.73ug/L

response 122363

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.83
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

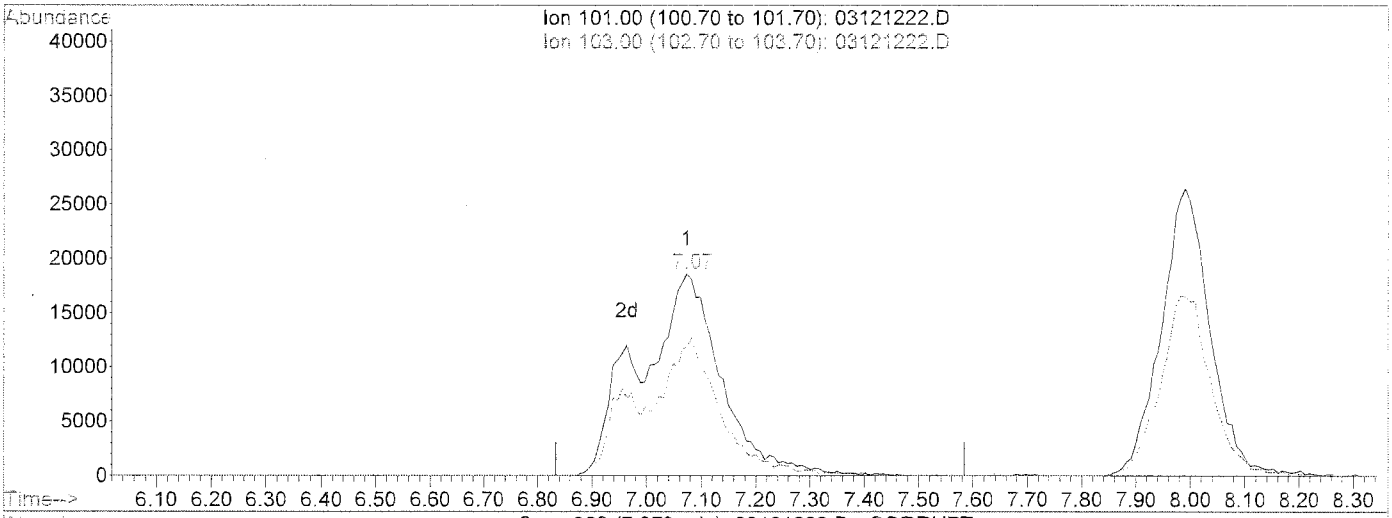
3/14/12

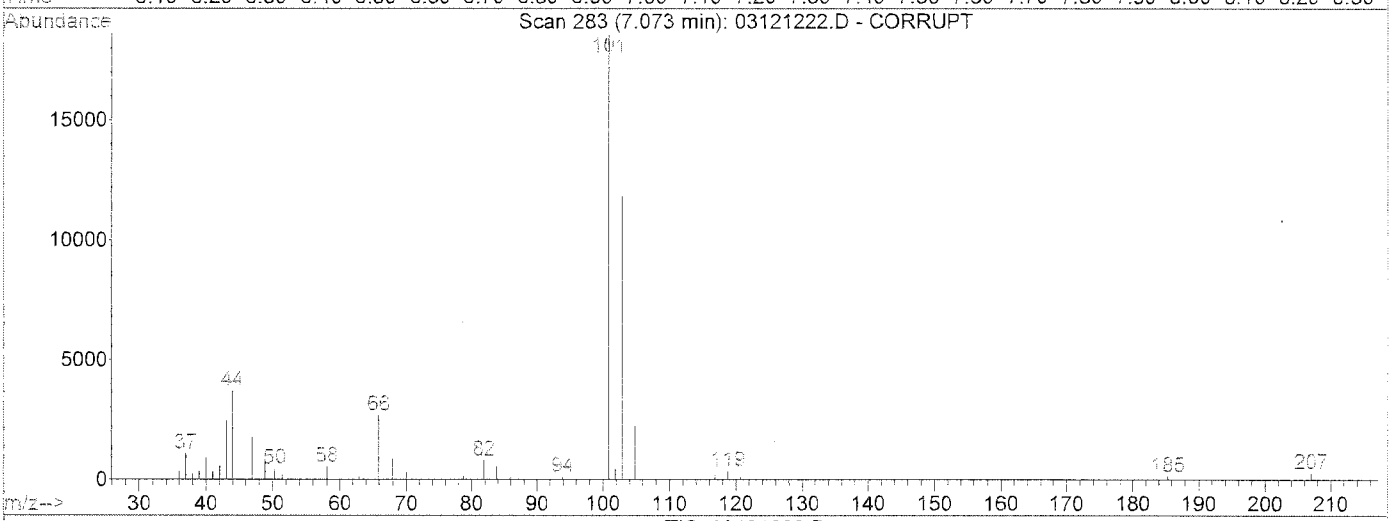
03121222.D 031212.M Wed Mar 14 10:48:25 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 10.54ug/L m

response 191739

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.43
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121222.D 031212.M Wed Mar 14 10:48:34 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	79757	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	486849	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	775452	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	625538	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	295737	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	296755	25.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.16%	
50) Toluene-d8 (surr)	14.19	98	855889	24.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.60%	
64) 4-Bromofluorobenzene (surr	17.82	95	323444	25.25 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.00%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	34389	49.42 ug/L	99
5) Dichlorodifluoromethane	4.91	85	233414	10.41 ug/L	99
6) Chloromethane	5.10	50	272897	10.60 ug/L	100
7) Vinyl Chloride	5.46	62	225890	10.40 ug/L	99
8) 1,3-Butadiene	5.56	54	134123	10.44 ug/L	99
9) Bromomethane	5.99	94	161442	10.25 ug/L	100
10) Chloroethane	6.19	64	130470	10.22 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	191739m	10.54 ug/L	
13) Acetone	7.12	43	41674	10.51 ug/L #	68
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	229150	10.18 ug/L	100
16) 1,1-Dichloroethene	7.72	96	140650	9.92 ug/L	99
17) Methylene Chloride	7.87	84	172845	9.98 ug/L	98
18) Freon 113	7.99	101	163942	10.39 ug/L	100
19) Carbon Disulfide	8.29	76	407260	10.47 ug/L #	90
20) trans-1,2-Dichloroethene	8.74	96	170398	10.52 ug/L	100
21) MTBE	8.87	73	258623	10.60 ug/L	100
22) 1,1-Dichloroethane	9.06	63	310679	10.64 ug/L	99
23) Vinyl Acetate	9.21	43	223071	10.72 ug/L	98
24) n-Hexane	9.55	86	29312	10.55 ug/L #	84
25) 2-Butanone (MEK)	9.59	72	9452	10.59 ug/L #	71
26) Diisopropylether (DIPE)	9.59	45	576872	10.69 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	157998	10.74 ug/L	98
28) Bromochloromethane	10.00	128	64587	10.81 ug/L	98
29) Chloroform	10.05	83	270666	10.53 ug/L	98
30) 2,2-Dichloropropane	10.16	77	165885	10.87 ug/L	97
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	360908	10.78 ug/L	99
33) Tetrahydrofuran	10.48	72	5986	9.63 ug/L #	83
34) 1,2-Dichloroethane	10.89	62	165680	10.22 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	207576	10.29 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	231521	10.09 ug/L	98
38) 1,1-Dichloropropene	11.25	75	184301	10.96 ug/L	99
39) Carbon Tetrachloride	11.49	117	182844	10.51 ug/L	99
40) Benzene	11.54	78	471097	10.56 ug/L	99

(#) = qualifier out of range (m) = manual integration

03121222.D 031212.M Wed Mar 14 10:48:51 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

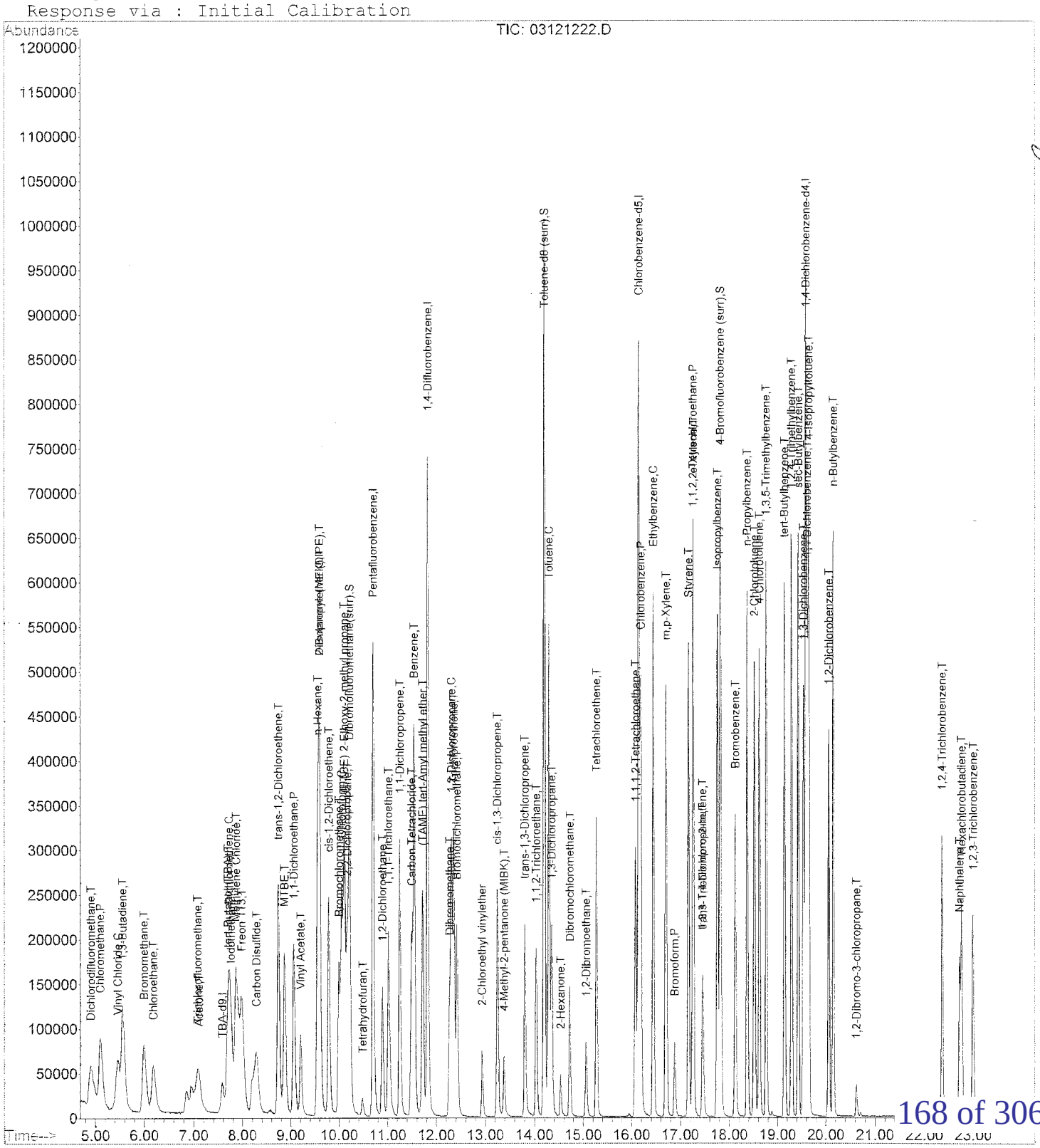
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	69674	10.76 ug/L	97
42) 1,2-Dichloropropane	12.31	63	136171	10.80 ug/L	98
43) Trichloroethene	12.36	95	134365	10.26 ug/L	98
44) Bromodichloromethane	12.42	83	178295	10.53 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	34649	9.48 ug/L	99
46) cis-1,3-Dichloropropene	13.25	75	176827	10.87 ug/L	98
47) 4-Methyl-2-pentanone (MIBK	13.38	43	73057	10.45 ug/L	95
48) trans-1,3-Dichloropropene	13.81	75	142466	10.18 ug/L	98
49) 1,1,2-Trichloroethane	14.03	97	80867	10.42 ug/L	98
51) Toluene	14.29	92	296309	10.74 ug/L	100
53) 1,3-Dichloropropane	14.35	76	137744	10.44 ug/L	98
54) 2-Hexanone	14.53	43	47778	9.55 ug/L	95
55) Dibromochloromethane	14.73	129	98380	10.38 ug/L	99
56) 1,2-Dibromoethane	15.06	107	80793	10.64 ug/L	98
57) Tetrachloroethene	15.27	164	96745	10.52 ug/L	99
58) 1,1,1,2-Tetrachloroethane	16.08	131	108882	10.55 ug/L	99
59) Chlorobenzene	16.19	112	320124	10.42 ug/L	99
60) Ethylbenzene	16.44	91	540567	11.19 ug/L	99
61) m,p-Xylene	16.71	106	211195	11.08 ug/L	100
62) Styrene	17.16	104	322967	11.12 ug/L	99
63) o-Xylene	17.26	106	204818	10.84 ug/L	98
66) Bromoform	16.88	173	53397	10.19 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	79706	10.21 ug/L	98
68) 1,2,3-Trichloropropane	17.46	110	21328	10.04 ug/L	96
69) trans-1,4-Dichloro-2-buten	17.46	53	27863	10.47 ug/L	97
70) Isopropylbenzene	17.76	105	484809	11.41 ug/L	99
71) Bromobenzene	18.12	156	113815	10.49 ug/L	99
72) n-Propylbenzene	18.37	91	610210	11.21 ug/L	100
73) 2-Chlorotoluene	18.52	91	383349	10.75 ug/L	100
74) 4-Chlorotoluene	18.62	91	392324	10.95 ug/L	100
75) 1,3,5-Trimethylbenzene	18.76	105	434465	11.00 ug/L	99
76) tert-Butylbenzene	19.14	119	339794	11.34 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	453994	11.32 ug/L	99
78) sec-Butylbenzene	19.43	105	550181	11.20 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	225183	10.46 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	223446	10.38 ug/L	99
81) 4-Isopropyltoluene	19.65	119	440014	11.00 ug/L	100
82) 1,2-Dichlorobenzene	20.06	146	192267	10.67 ug/L	98
83) n-Butylbenzene	20.15	91	426760	11.38 ug/L	100
84) 1,2-Dibromo-3-chloropropan	20.62	75	10602	10.31 ug/L	98
85) 1,2,4-Trichlorobenzene	22.36	180	135268	11.45 ug/L	99
86) Naphthalene	22.71	128	178395	11.27 ug/L	99
87) Hexachlorobutadiene	22.76	225	64556	10.72 ug/L	99
88) 1,2,3-Trichlorobenzene	22.99	180	105963	11.59 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

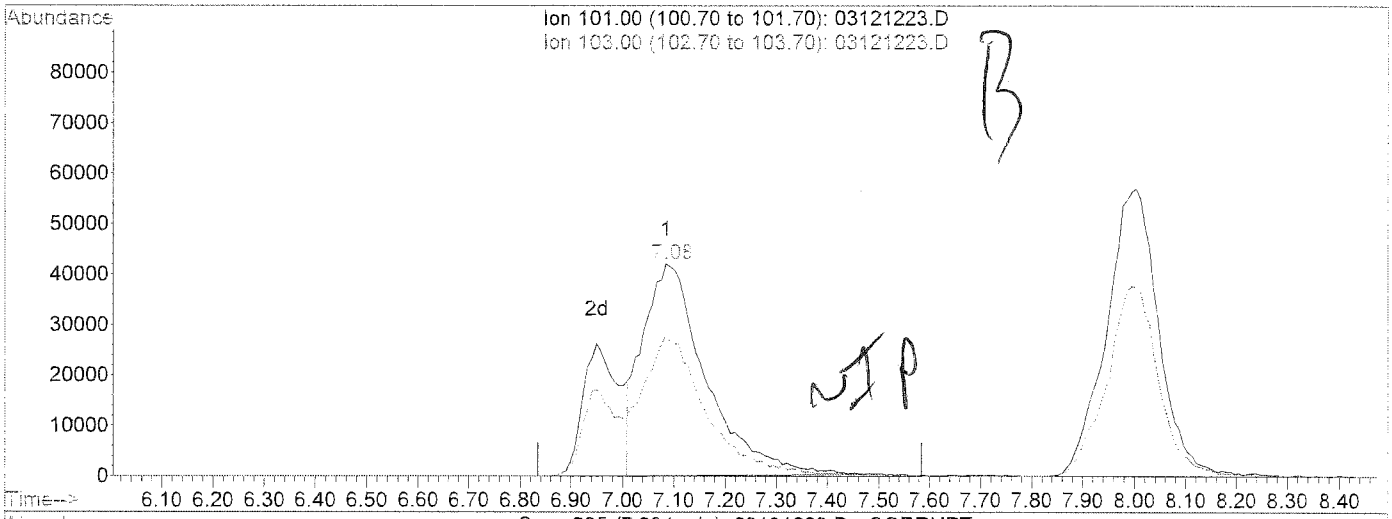
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

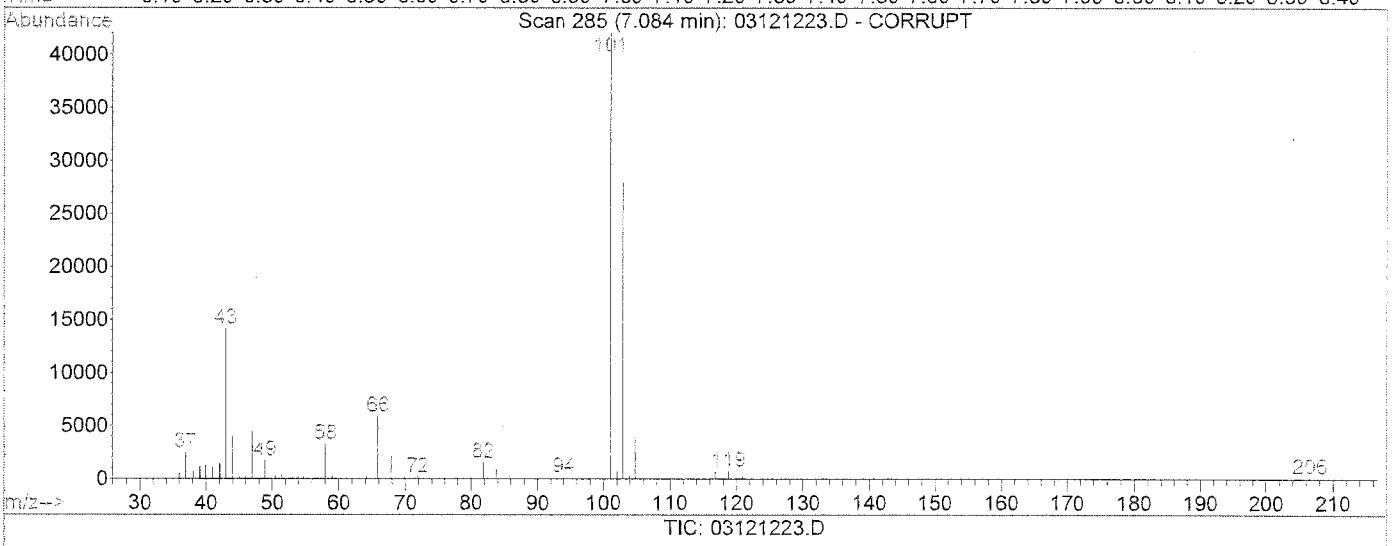


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 19.58ug/L

response 360529

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.63
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

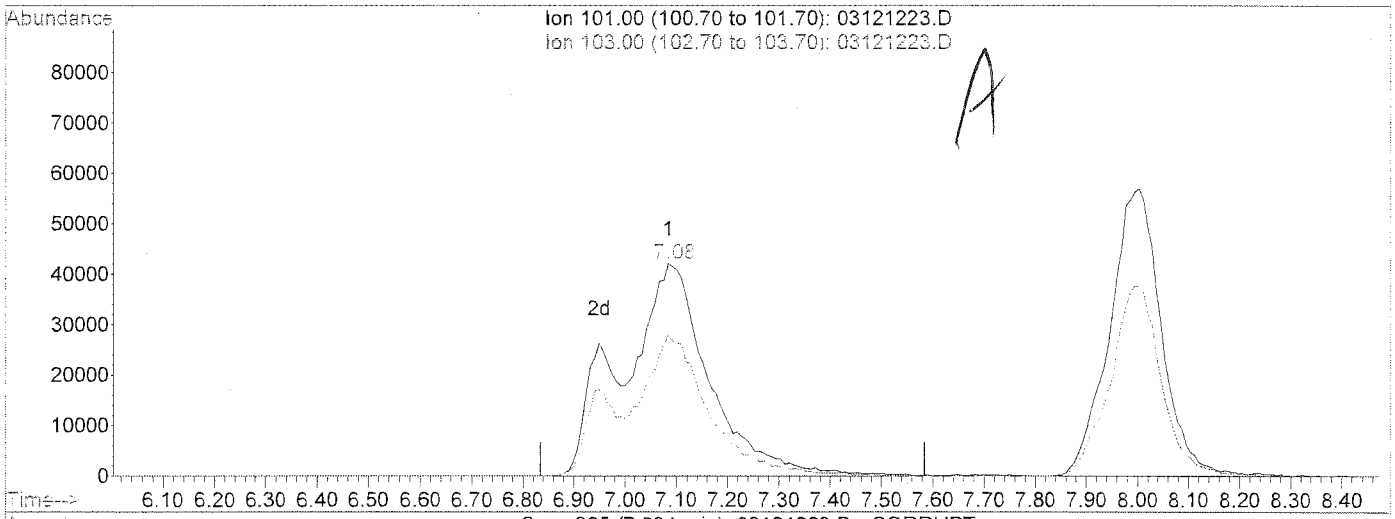
3/14/12

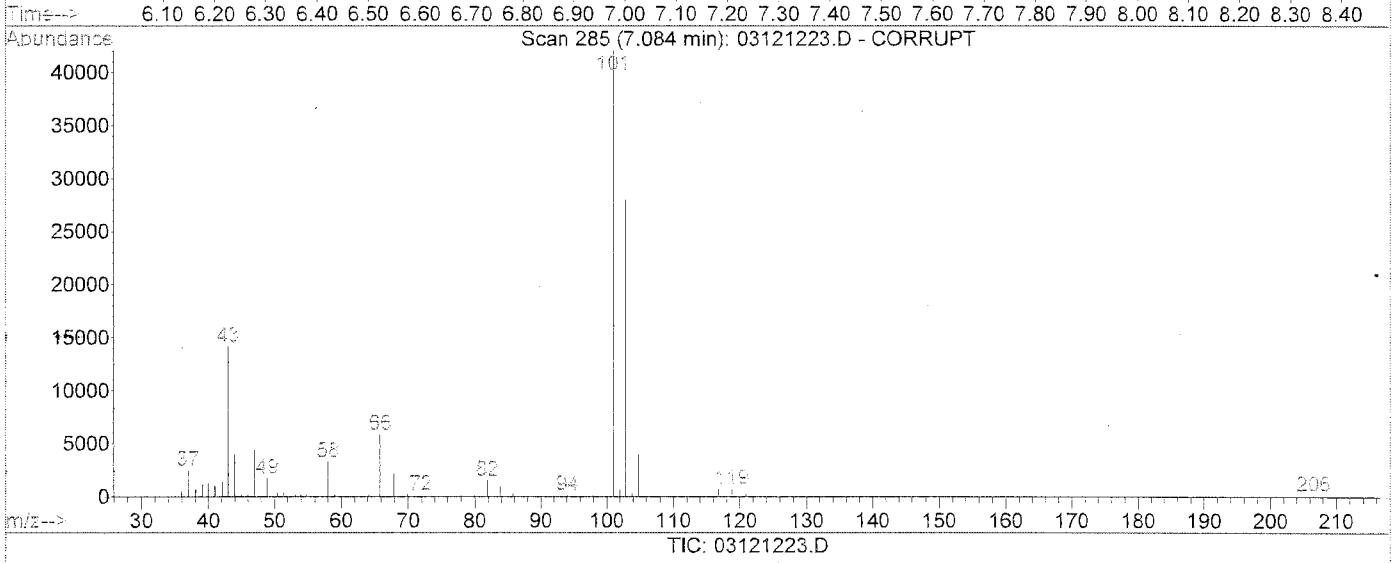
03121223.D 031212.M Wed Mar 14 10:49:01 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

✓ 3/14/12

7.08min 26.86ug/L m

response 494455

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.43
0.00	0.00	0.00
0.00	0.00	0.00

ML 3/14/12

03121223.D 031212.M Wed Mar 14 10:49:15 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-Calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	80167	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	492791	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	798415	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	647464	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	305368	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	282508	23.79 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.16%	
50) Toluene-d8 (surr)	14.19	98	892210	24.96 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.84%	
64) 4-Bromofluorobenzene (surr	17.82	95	336662	25.39 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.56%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	10390	207.29 ug/L	100
3) tert-Butanol (TBA)	7.68	59	89818	128.40 ug/L	100
5) Dichlorodifluoromethane	4.90	85	569775	25.10 ug/L	100
6) Chloromethane	5.13	50	651846	25.01 ug/L	100
7) Vinyl Chloride	5.48	62	564408	25.68 ug/L	100
8) 1,3-Butadiene	5.55	54	335852	25.83 ug/L	100
9) Bromomethane	6.01	94	379783	23.83 ug/L	100
10) Chloroethane	6.20	64	322361	24.94 ug/L	100
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	494455m	26.86 ug/L	
13) Acetone	7.11	43	90791	22.62 ug/L	100
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	562578	24.70 ug/L	100
16) 1,1-Dichloroethene	7.72	96	357567	24.91 ug/L	100
17) Methylene Chloride	7.87	84	408422	23.29 ug/L	100
18) Freon 113	8.00	101	398046	24.93 ug/L	100
19) Carbon Disulfide	8.30	76	982895	24.97 ug/L	100
20) trans-1,2-Dichloroethene	8.74	96	415053	25.31 ug/L	100
21) MTBE	8.87	73	633555	25.64 ug/L	100
22) 1,1-Dichloroethane	9.06	63	740526	25.05 ug/L	100
23) Vinyl Acetate	9.20	43	579235	27.50 ug/L	100
24) n-Hexane	9.55	86	75389	26.80 ug/L	100
25) 2-Butanone (MEK)	9.59	72	20601	22.80 ug/L #	100
26) Diisopropylether (DIPE)	9.59	45	1385358	25.36 ug/L	100
27) cis-1,2-Dichloroethene	9.78	96	381596	25.62 ug/L	100
28) Bromochloromethane	9.99	128	154452	25.53 ug/L	100
29) Chloroform	10.05	83	645080	24.80 ug/L	100
30) 2,2-Dichloropropane	10.15	77	379633	24.57 ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	908740	26.81 ug/L	100
33) Tetrahydrofuran	10.47	72	14974	23.81 ug/L	100
34) 1,2-Dichloroethane	10.89	62	406910	24.79 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	510320	25.00 ug/L	100
36) (TAME) tert-Amyl methyl et	11.71	73	610177	26.28 ug/L	100
38) 1,1-Dichloropropene	11.25	75	458844	26.50 ug/L	100
39) Carbon Tetrachloride	11.49	117	449604	25.11 ug/L	100
40) Benzene	11.54	78	1178264	25.65 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

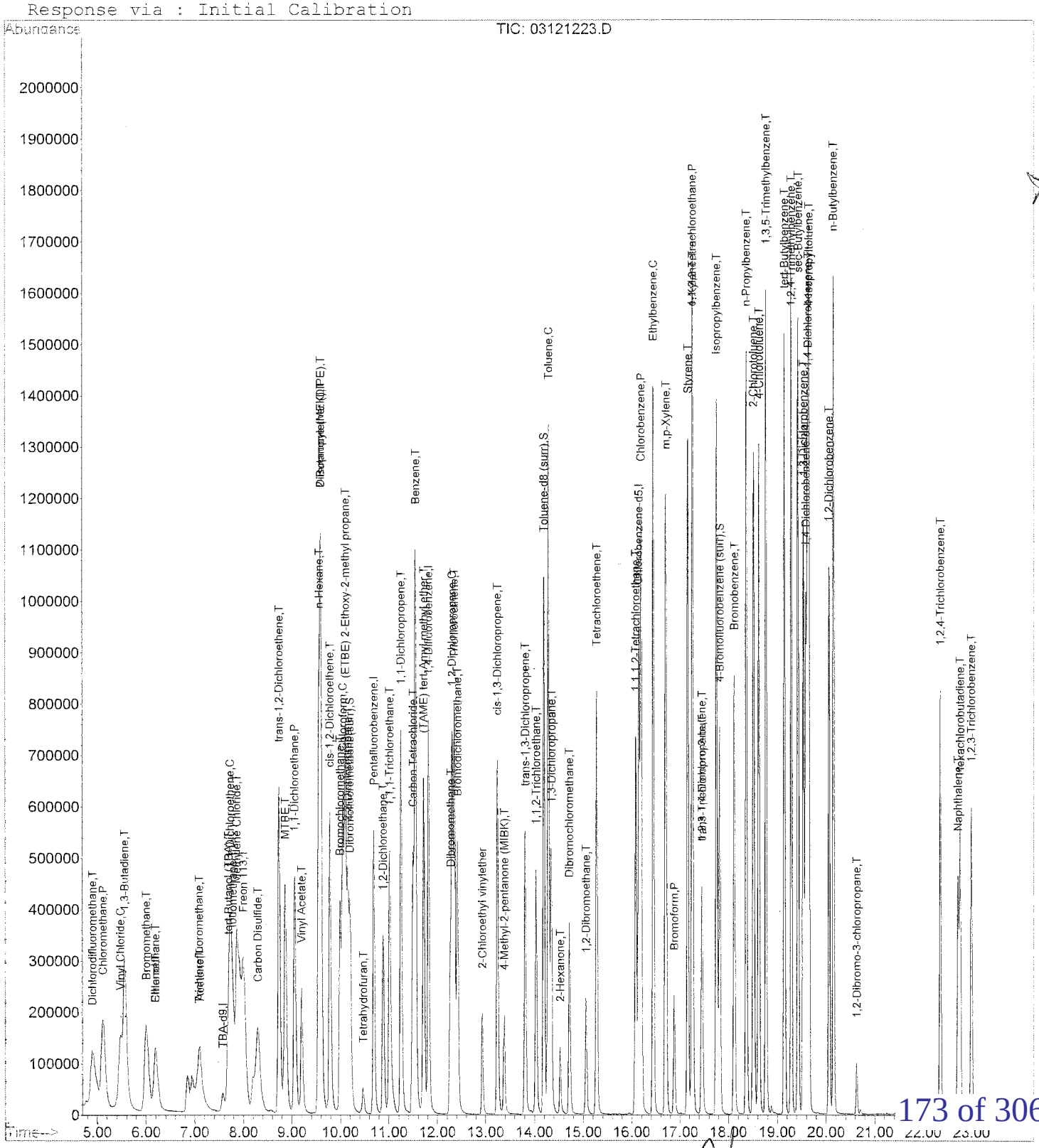
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	Dibromomethane	12.27	93	166858	25.03	ug/L	100
42)	1,2-Dichloropropane	12.31	63	332564	25.61	ug/L	100
43)	Trichloroethene	12.35	95	341021	25.28	ug/L	100
44)	Bromodichloromethane	12.42	83	437368	25.10	ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	97728	23.62	ug/L	100
46)	cis-1,3-Dichloropropene	13.24	75	467486	27.91	ug/L	100
47)	4-Methyl-2-pentanone (MIBK	13.39	43	182497	25.35	ug/L	100
48)	trans-1,3-Dichloropropene	13.81	75	372724	25.50	ug/L	100
49)	1,1,2-Trichloroethane	14.03	97	199149	24.92	ug/L	100
51)	Toluene	14.29	92	736644	25.92	ug/L	100
53)	1,3-Dichloropropane	14.35	76	349070	25.56	ug/L	100
54)	2-Hexanone	14.53	43	129484	25.00	ug/L	100
55)	Dibromochloromethane	14.72	129	252170	25.71	ug/L	100
56)	1,2-Dibromoethane	15.06	107	202930	25.82	ug/L	100
57)	Tetrachloroethene	15.28	164	246450	25.89	ug/L	100
58)	1,1,1,2-Tetrachloroethane	16.08	131	272056	25.47	ug/L	100
59)	Chlorobenzene	16.19	112	817492	25.70	ug/L	100
60)	Ethylbenzene	16.45	91	1368914	27.37	ug/L	100
61)	m,p-Xylene	16.71	106	546852	27.72	ug/L	100
62)	Styrene	17.16	104	842432	27.87	ug/L	100
63)	o-Xylene	17.26	106	534711	27.34	ug/L	100
66)	Bromoform	16.89	173	140736	26.00	ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	200672	24.89	ug/L	100
68)	1,2,3-Trichloropropane	17.45	110	57662	26.28	ug/L	100
69)	trans-1,4-Dichloro-2-buten	17.47	53	74330	27.06	ug/L	100
70)	Isopropylbenzene	17.76	105	1234280	28.14	ug/L	100
71)	Bromobenzene	18.12	156	294049	26.24	ug/L	100
72)	n-Propylbenzene	18.37	91	1552221	27.61	ug/L	100
73)	2-Chlorotoluene	18.51	91	979196	26.60	ug/L	100
74)	4-Chlorotoluene	18.62	91	998478	27.00	ug/L	100
75)	1,3,5-Trimethylbenzene	18.76	105	1125200	27.60	ug/L	100
76)	tert-Butylbenzene	19.14	119	872188	28.18	ug/L	100
77)	1,2,4-Trimethylbenzene	19.29	105	1152465	27.83	ug/L	100
78)	sec-Butylbenzene	19.43	105	1389876	27.40	ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	564256	25.37	ug/L	100
80)	1,4-Dichlorobenzene	19.62	146	558541	25.14	ug/L	100
81)	4-Isopropyltoluene	19.65	119	1104899	26.74	ug/L	100
82)	1,2-Dichlorobenzene	20.06	146	497593	26.76	ug/L	100
83)	n-Butylbenzene	20.15	91	1074520	27.75	ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.63	75	29119	27.41	ug/L	100
85)	1,2,4-Trichlorobenzene	22.36	180	356136	29.19	ug/L	100
86)	Naphthalene	22.72	128	470864	28.80	ug/L	100
87)	Hexachlorobutadiene	22.76	225	161440	25.95	ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	270223	28.63	ug/L	100

(#) = qualifier out of range (m) = manual integration
03121223.D 031212.M Wed Mar 14 10:49:25 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

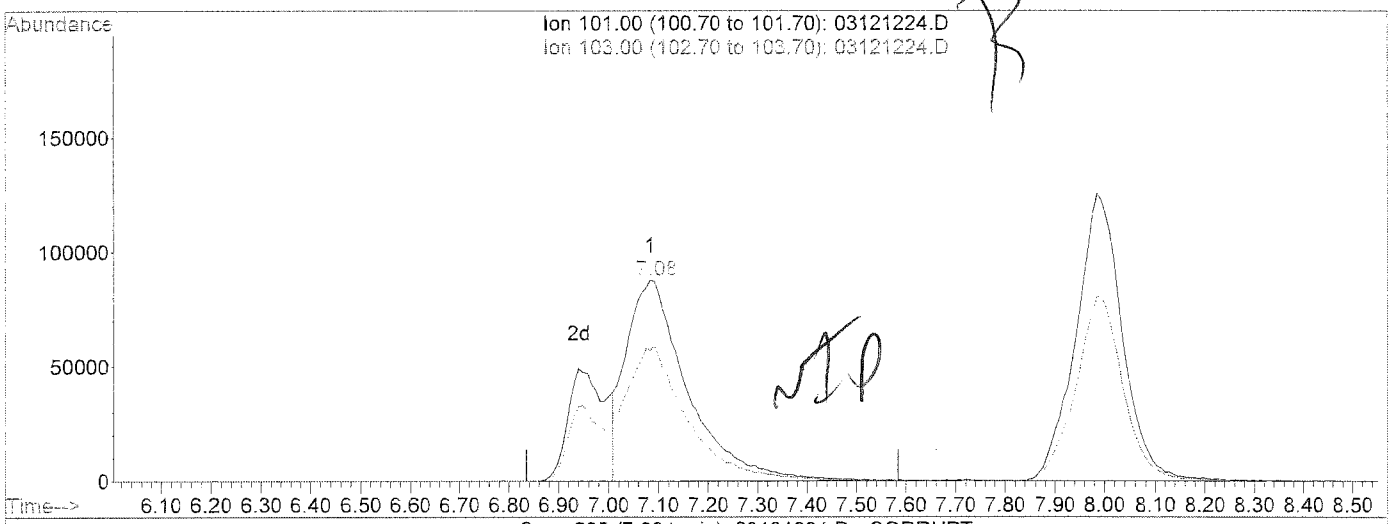
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

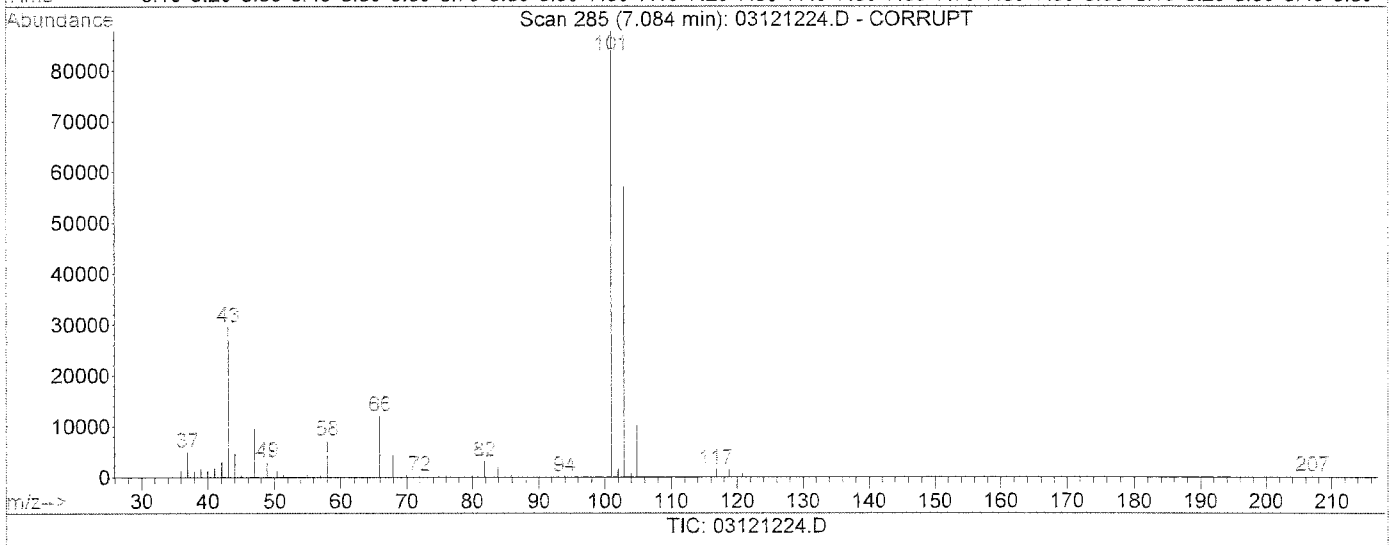


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.08min 39.65ug/L

response 749173

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.83
0.00	0.00	0.00
0.00	0.00	0.00

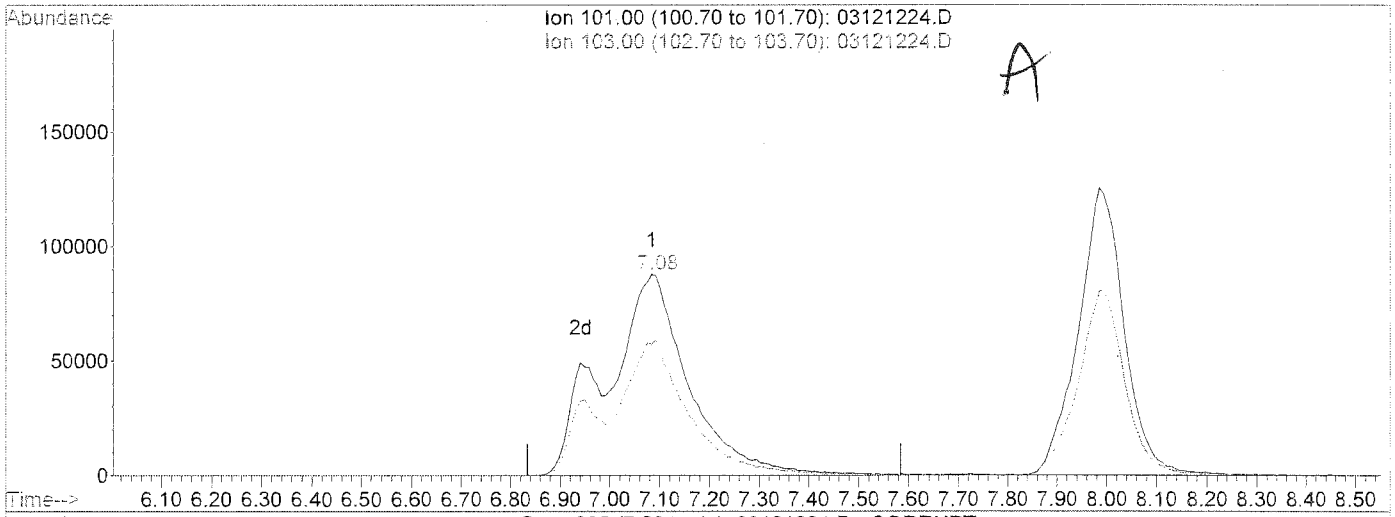
3/14/12

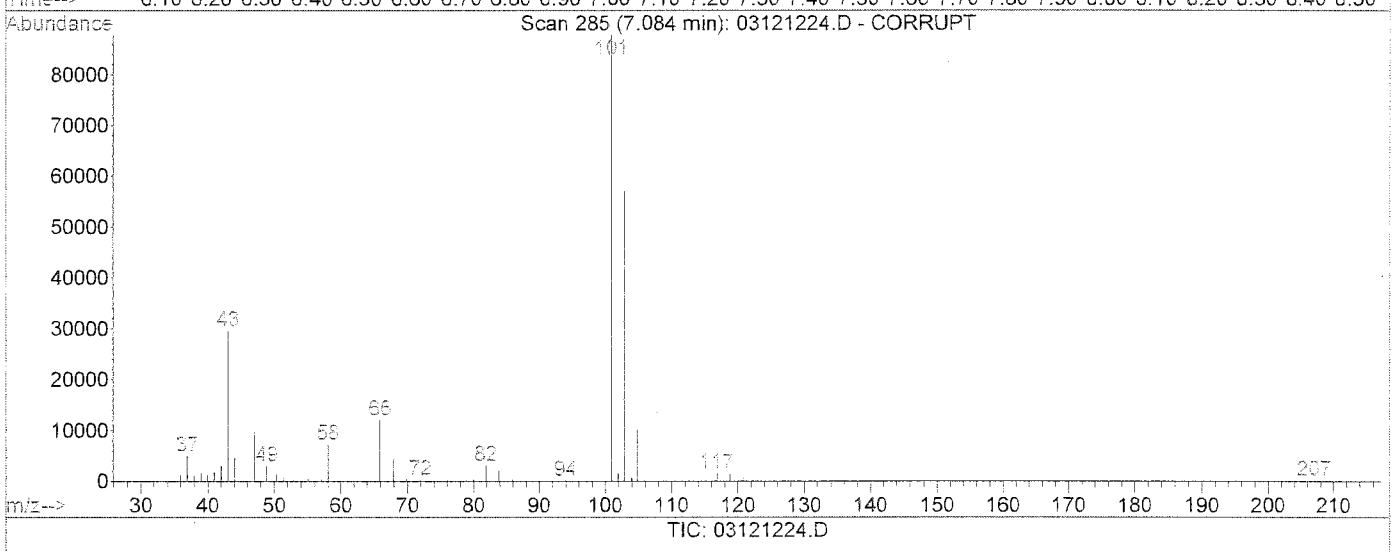
03121224.D 031212.M Wed Mar 14 10:49:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.08min 53.47ug/L m

response 1010303

✓ 3/14/12

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.05
0.00	0.00	0.00
0.00	0.00	0.00

03121224.D 031212.M Wed Mar 14 10:49:49 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95808	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	505691	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	832158	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	690159	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	321959	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311361	25.55 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.20%	
50) Toluene-d8 (surr)	14.19	98	951272	25.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	366348	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.68%	
Target Compounds					Qvalue
2) Ethanol	6.17	45	31106	519.27 ug/L #	59
3) tert-Butanol (TBA)	7.68	59	203364	243.27 ug/L	98
5) Dichlorodifluoromethane	4.89	85	1166718	50.08 ug/L	100
6) Chloromethane	5.13	50	1250018	46.74 ug/L	98
7) Vinyl Chloride	5.47	62	1121383	49.72 ug/L	99
8) 1,3-Butadiene	5.56	54	682368	51.14 ug/L	99
9) Bromomethane	6.01	94	769232	47.04 ug/L	100
10) Chloroethane	6.19	64	675972	50.97 ug/L	99
11) Acrolein	7.02	56	75	No Calib #	
12) Trichlorofluoromethane	7.08	101	1010303m	53.47 ug/L	
13) Acetone	7.10	43	170392	41.37 ug/L	100
14) Acrylonitrile	7.60	53	135	No Calib #	
15) Iodomethane	7.77	142	1162569	49.73 ug/L	99
16) 1,1-Dichloroethene	7.72	96	732773	49.74 ug/L	100
17) Methylene Chloride	7.87	84	837287	46.52 ug/L	99
18) Freon 113	7.99	101	805807	49.19 ug/L	99
19) Carbon Disulfide	8.30	76	2000775	49.52 ug/L #	93
20) trans-1,2-Dichloroethene	8.74	96	821510	48.81 ug/L	100
21) MTBE	8.86	73	1361624	53.71 ug/L	100
22) 1,1-Dichloroethane	9.06	63	1451271	47.83 ug/L	100
23) Vinyl Acetate	9.20	43	1259910	58.29 ug/L	100
24) n-Hexane	9.55	86	146059	50.59 ug/L	99
25) 2-Butanone (MEK)	9.59	72	41189	44.42 ug/L #	93
26) Diisopropylether (DIPE)	9.59	45	2822889	50.35 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	765459	50.08 ug/L	100
28) Bromochloromethane	9.99	128	304560	49.06 ug/L	97
29) Chloroform	10.05	83	1272068	47.66 ug/L	100
30) 2,2-Dichloropropane	10.16	77	752114	47.43 ug/L	97
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	1917641	55.12 ug/L	100
33) Tetrahydrofuran	10.47	72	33967	52.63 ug/L #	90
34) 1,2-Dichloroethane	10.88	62	821650	48.79 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	1015237	48.47 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	1329392	55.79 ug/L	99
38) 1,1-Dichloropropene	11.25	75	919869	50.98 ug/L	99
39) Carbon Tetrachloride	11.49	117	897765	48.10 ug/L	99
40) Benzene	11.54	78	2322600	48.52 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

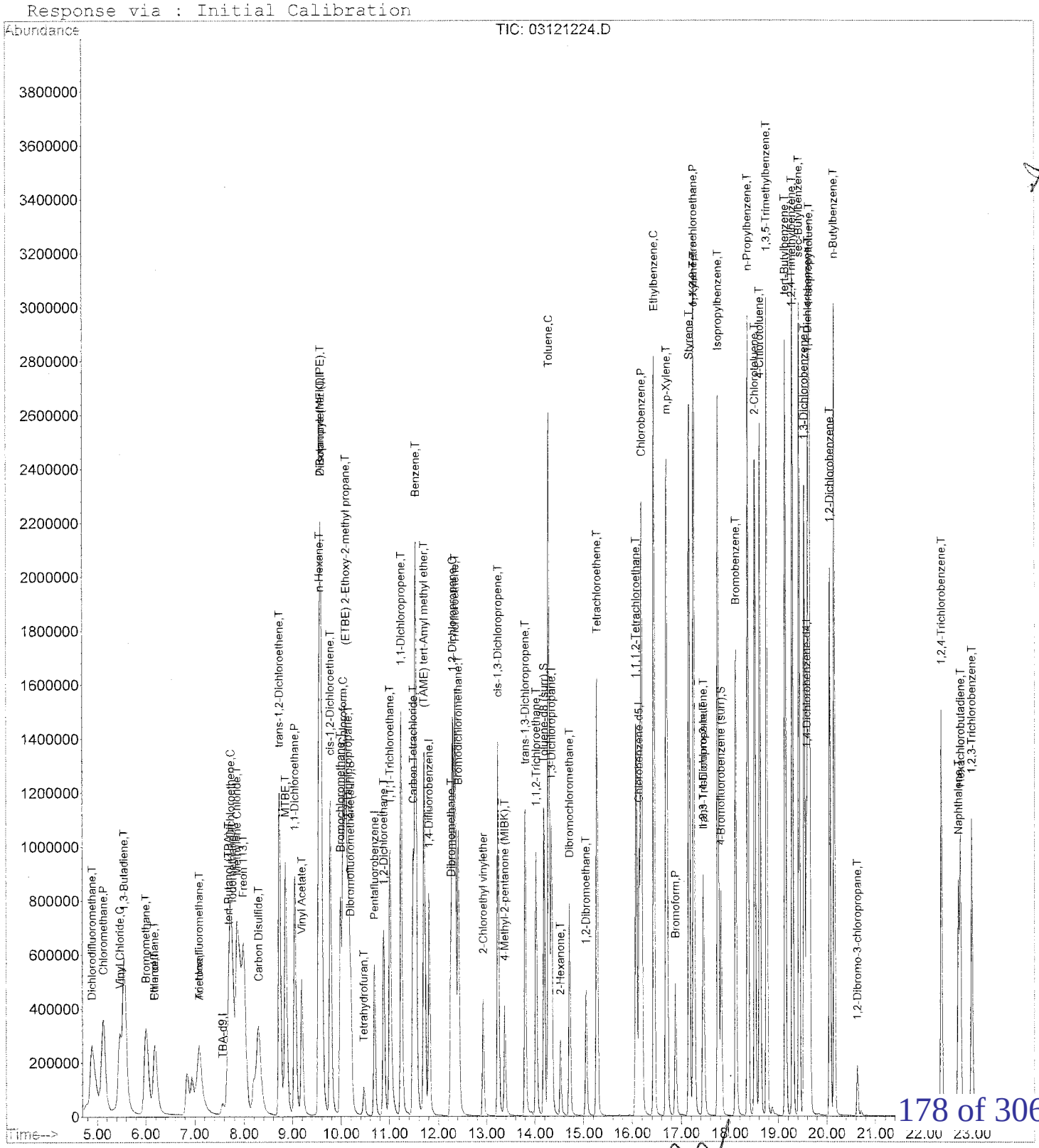
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	345678	49.76 ug/L	99
42) 1,2-Dichloropropane	12.31	63	663086	49.00 ug/L	100
43) Trichloroethene	12.35	95	678421	48.26 ug/L	100
44) Bromodichloromethane	12.42	83	871260	47.97 ug/L	100
45) 2-Chloroethyl vinylether	12.93	63	219602	49.37 ug/L	97
46) cis-1,3-Dichloropropene	13.24	75	951247	54.49 ug/L	100
47) 4-Methyl-2-pentanone (MIBK	13.38	43	416881	55.55 ug/L	98
48) trans-1,3-Dichloropropene	13.81	75	772509	50.47 ug/L	99
49) 1,1,2-Trichloroethane	14.03	97	410684	49.31 ug/L	99
51) Toluene	14.29	92	1476796	49.87 ug/L	99
53) 1,3-Dichloropropane	14.35	76	724785	49.79 ug/L	100
54) 2-Hexanone	14.53	43	278479	50.44 ug/L	100
55) Dibromochloromethane	14.72	129	537137	51.37 ug/L	100
56) 1,2-Dibromoethane	15.06	107	431357	51.49 ug/L	99
57) Tetrachloroethene	15.28	164	492437	48.54 ug/L	100
58) 1,1,1,2-Tetrachloroethane	16.08	131	553106	48.57 ug/L	99
59) Chlorobenzene	16.19	112	1615789	47.65 ug/L	100
60) Ethylbenzene	16.45	91	2682232	50.30 ug/L	99
61) m,p-Xylene	16.71	106	1099795	52.30 ug/L	98
62) Styrene	17.16	104	1699103	52.64 ug/L	100
63) o-Xylene	17.26	106	1053359	50.53 ug/L	99
66) Bromoform	16.88	173	305554	53.55 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	399960	47.05 ug/L	99
68) 1,2,3-Trichloropropane	17.46	110	117382	50.74 ug/L	98
69) trans-1,4-Dichloro-2-buten	17.47	53	155977	53.86 ug/L	97
70) Isopropylbenzene	17.76	105	2456098	53.10 ug/L	100
71) Bromobenzene	18.12	156	605003	51.20 ug/L	98
72) n-Propylbenzene	18.37	91	3067944	51.76 ug/L	100
73) 2-Chlorotoluene	18.51	91	1895002	48.83 ug/L	99
74) 4-Chlorotoluene	18.62	91	1940467	49.76 ug/L	98
75) 1,3,5-Trimethylbenzene	18.76	105	2167504	50.42 ug/L	100
76) tert-Butylbenzene	19.14	119	1698137	52.04 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	2222051	50.90 ug/L	98
78) sec-Butylbenzene	19.43	105	2632179	49.22 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	1123463	47.91 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	1112167	47.48 ug/L	100
81) 4-Isopropyltoluene	19.65	119	2110091	48.44 ug/L	100
82) 1,2-Dichlorobenzene	20.06	146	950875	48.49 ug/L	100
83) n-Butylbenzene	20.15	91	2026501	49.64 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	55980	49.99 ug/L	96
85) 1,2,4-Trichlorobenzene	22.36	180	657849	51.14 ug/L	99
86) Naphthalene	22.72	128	895338	51.93 ug/L	99
87) Hexachlorobutadiene	22.76	225	291640	44.47 ug/L	99
88) 1,2,3-Trichlorobenzene	22.99	180	508619	51.11 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121224.D 031212.M Wed Mar 14 10:49:53 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

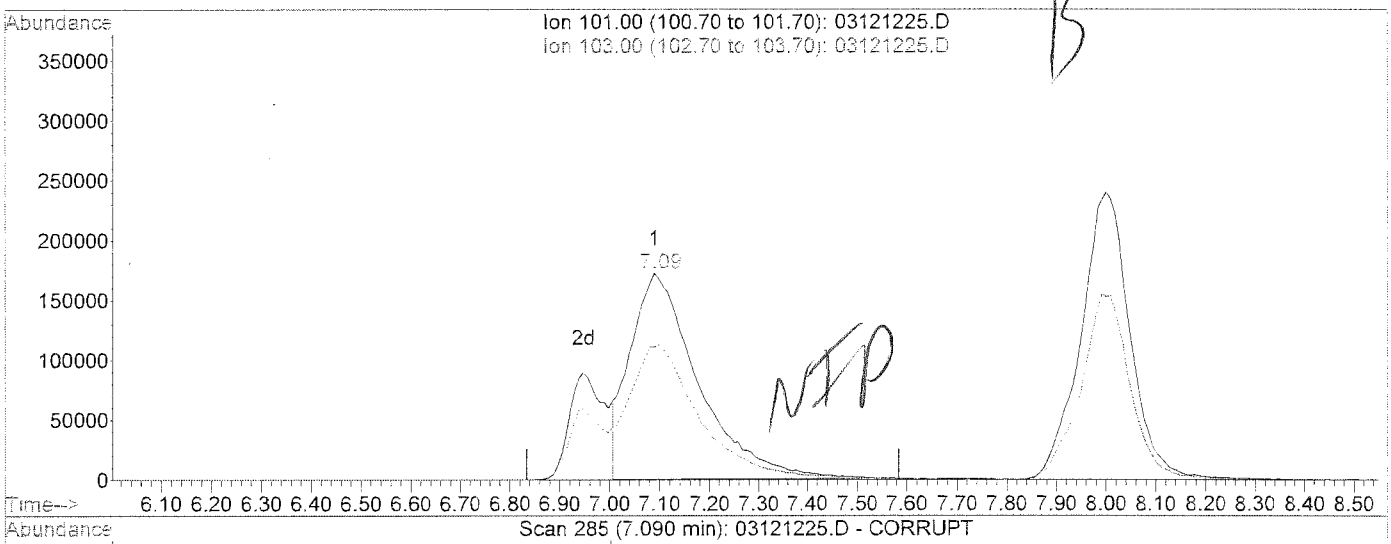


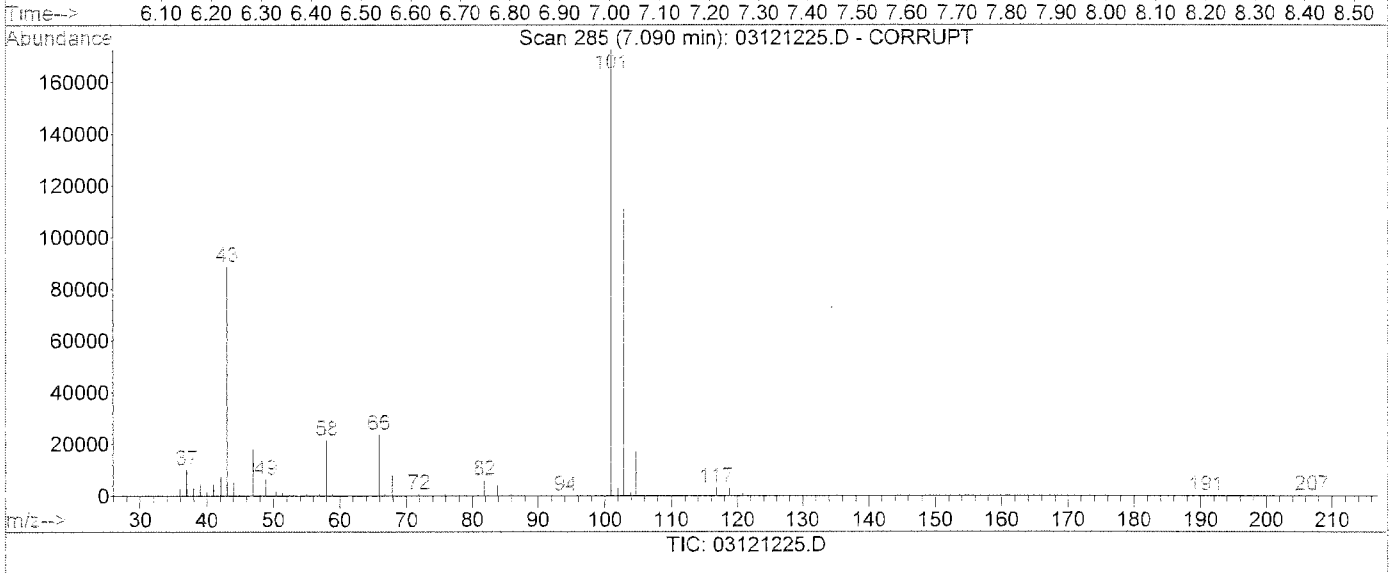
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

7.09min 83.13ug/L

response 1634179

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.17
0.00	0.00	0.00
0.00	0.00	0.00

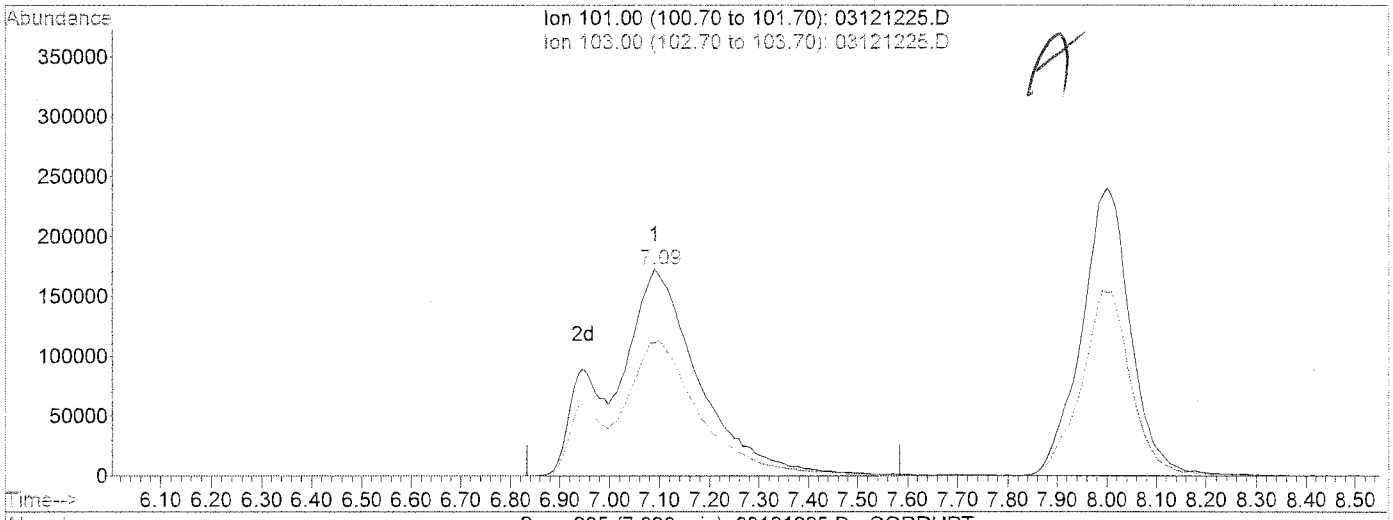
✓ 3/14/12

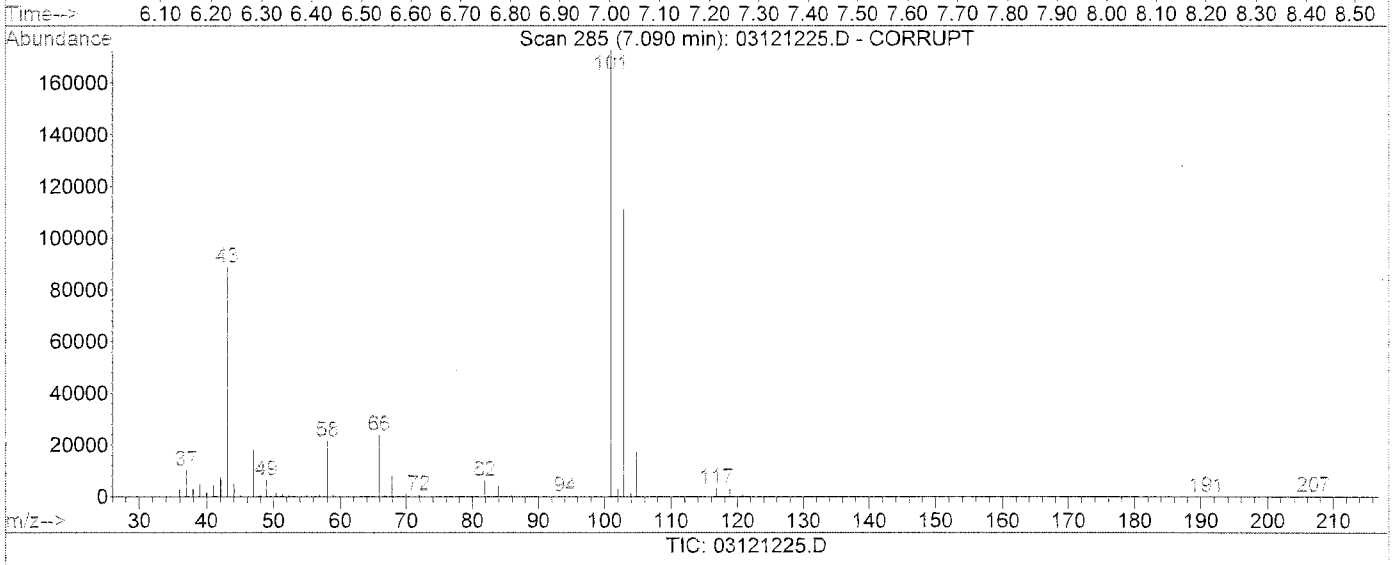
03121225.D 031212.M Wed Mar 14 10:50:17 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 107.56ug/L m

response 2114410

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.33
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121225.D 031212.M Wed Mar 14 10:50:37 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	94067	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	526147	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	853823	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	696263	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	313098	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	307753	24.27 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.08%	
50) Toluene-d8 (surr)	14.19	98	962276	25.17 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.68%	
64) 4-Bromofluorobenzene (surr	17.83	95	361173	25.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.32%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	64588	1098.16 ug/L #	81
3) tert-Butanol (TBA)	7.69	59	408002	497.09 ug/L	98
5) Dichlorodifluoromethane	4.89	85	2227723	91.91 ug/L	99
6) Chloromethane	5.15	50	2257415	81.12 ug/L	98
7) Vinyl Chloride	5.50	62	2194641	93.52 ug/L	99
8) 1,3-Butadiene	5.57	54	1341608	96.63 ug/L	98
9) Bromomethane	6.04	94	1541604	90.61 ug/L	99
10) Chloroethane	6.19	64	1355582	98.25 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.09	101	2114410m	107.56 ug/L	
13) Acetone	7.11	43	452746	105.65 ug/L	98
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.79	142	2373461	97.58 ug/L	99
16) 1,1-Dichloroethene	7.72	96	1496591	97.64 ug/L	98
17) Methylene Chloride	7.87	84	1682010	89.82 ug/L	97
18) Freon 113	8.00	101	1639379	96.18 ug/L	99
19) Carbon Disulfide	8.30	76	4202864	99.99 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	1687124	96.34 ug/L	99
21) MTBE	8.87	73	2872186	108.88 ug/L	99
22) 1,1-Dichloroethane	9.05	63	2977288	94.31 ug/L	99
23) Vinyl Acetate	9.20	43	2482982	110.40 ug/L	100
24) n-Hexane	9.55	86	297911	99.17 ug/L	99
25) 2-Butanone (MEK)	9.58	72	97052	100.60 ug/L #	39
26) Diisopropylether (DIPE)	9.59	45	5507827	94.42 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	1554391	97.74 ug/L	99
28) Bromochloromethane	10.00	128	620382	96.05 ug/L	95
29) Chloroform	10.05	83	2488261	89.59 ug/L	99
30) 2,2-Dichloropropane	10.16	77	1452856	88.06 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	3808314	105.21 ug/L	99
33) Tetrahydrofuran	10.47	72	72074	107.33 ug/L #	89
34) 1,2-Dichloroethane	10.88	62	1630673	93.06 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	2038914	93.56 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	2665391	107.50 ug/L	98
38) 1,1-Dichloropropene	11.25	75	1869229	100.96 ug/L	99
39) Carbon Tetrachloride	11.49	117	1816860	94.87 ug/L	99
40) Benzene	11.54	78	4564847	92.93 ug/L	100

(#) = qualifier out of range (m) = manual integration

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

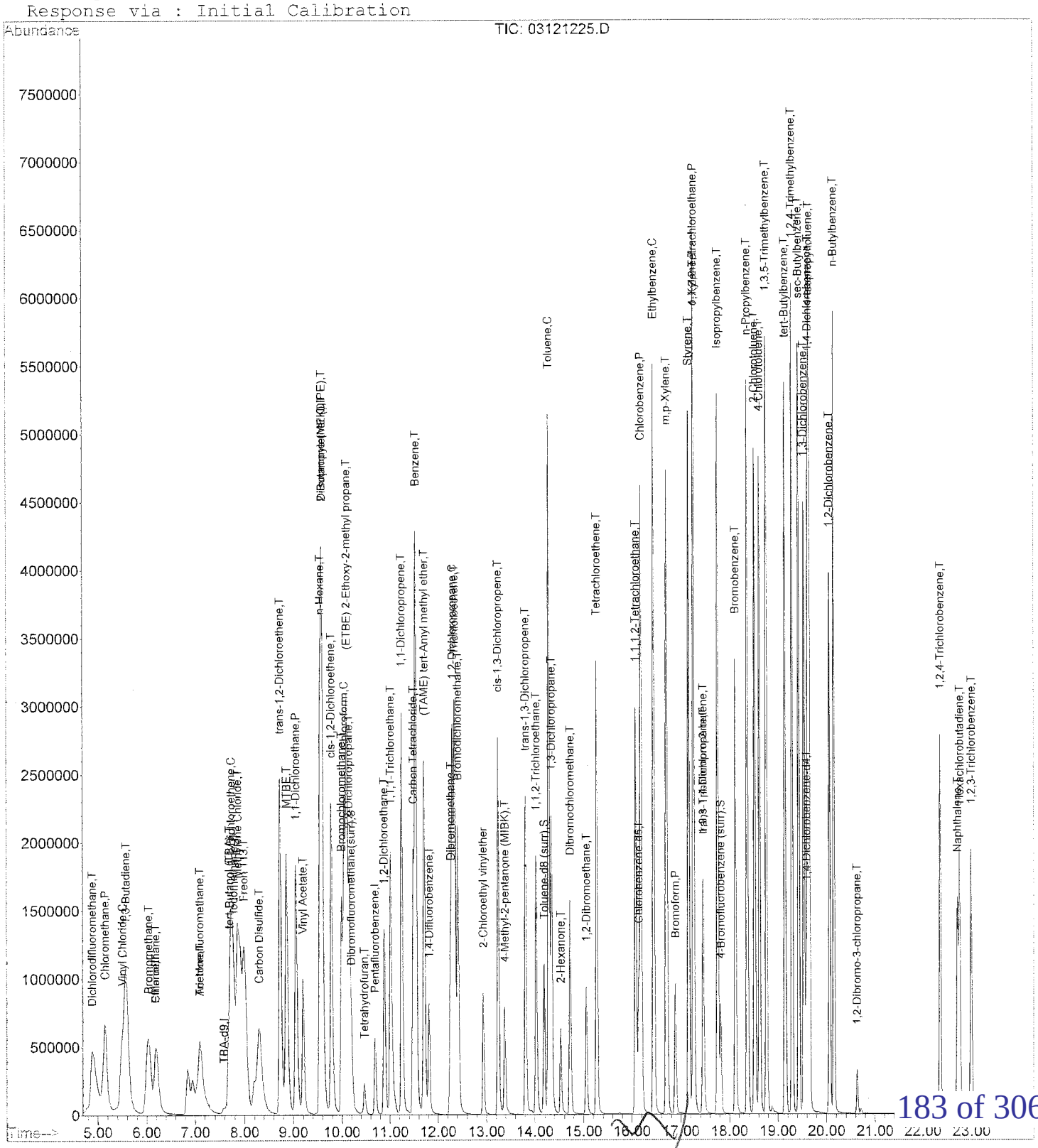
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	690752	96.91 ug/L	98
42)	1,2-Dichloropropane	12.31	63	1284941	92.54 ug/L	99
43)	Trichloroethene	12.36	95	1354042	93.87 ug/L	99
44)	Bromodichloromethane	12.42	83	1767141	94.83 ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	466052	100.68 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	1931216	107.81 ug/L	98
47)	4-Methyl-2-pentanone (MIBK	13.39	43	844915	109.74 ug/L	98
48)	trans-1,3-Dichloropropene	13.81	75	1596258	101.41 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	832837	97.46 ug/L	98
51)	Toluene	14.29	92	2942795	96.84 ug/L	97
53)	1,3-Dichloropropane	14.35	76	1456458	99.18 ug/L	100
54)	2-Hexanone	14.53	43	644450	115.70 ug/L	98
55)	Dibromochloromethane	14.73	129	1095757	103.88 ug/L	100
56)	1,2-Dibromoethane	15.06	107	878631	103.96 ug/L	99
57)	Tetrachloroethene	15.27	164	1003223	98.01 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	1132686	98.60 ug/L	99
59)	Chlorobenzene	16.19	112	3187606	93.18 ug/L	99
60)	Ethylbenzene	16.44	91	5217990	97.00 ug/L	98
61)	m,p-Xylene	16.71	106	2179210	102.73 ug/L	97
62)	Styrene	17.16	104	3350551	102.79 ug/L	99
63)	o-Xylene	17.26	106	2073823	98.62 ug/L	97
66)	Bromoform	16.89	173	622197	112.13 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	755834	91.43 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	233973	103.99 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.46	53	309886	110.04 ug/L	95
70)	Isopropylbenzene	17.76	105	4732641	105.22 ug/L	98
71)	Bromobenzene	18.12	156	1190970	103.64 ug/L	97
72)	n-Propylbenzene	18.37	91	5814099	100.87 ug/L	98
73)	2-Chlorotoluene	18.52	91	3709452	98.29 ug/L	98
74)	4-Chlorotoluene	18.62	91	3748227	98.84 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	4199765	100.46 ug/L	98
76)	tert-Butylbenzene	19.15	119	3270817	103.08 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	4240200	99.88 ug/L	98
78)	sec-Butylbenzene	19.43	105	5009810	96.34 ug/L	98
79)	1,3-Dichlorobenzene	19.54	146	2204189	96.67 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	2142308	94.04 ug/L	100
81)	4-Isopropyltoluene	19.66	119	4024827	95.01 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	1835172	96.24 ug/L	99
83)	n-Butylbenzene	20.15	91	3764254	94.81 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.62	75	100034	91.85 ug/L	93
85)	1,2,4-Trichlorobenzene	22.36	180	1225483	97.96 ug/L	99
86)	Naphthalene	22.71	128	1658215	98.90 ug/L	99
87)	Hexachlorobutadiene	22.76	225	553510	86.79 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	922404	95.32 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121225.D 031212.M Wed Mar 14 10:50:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

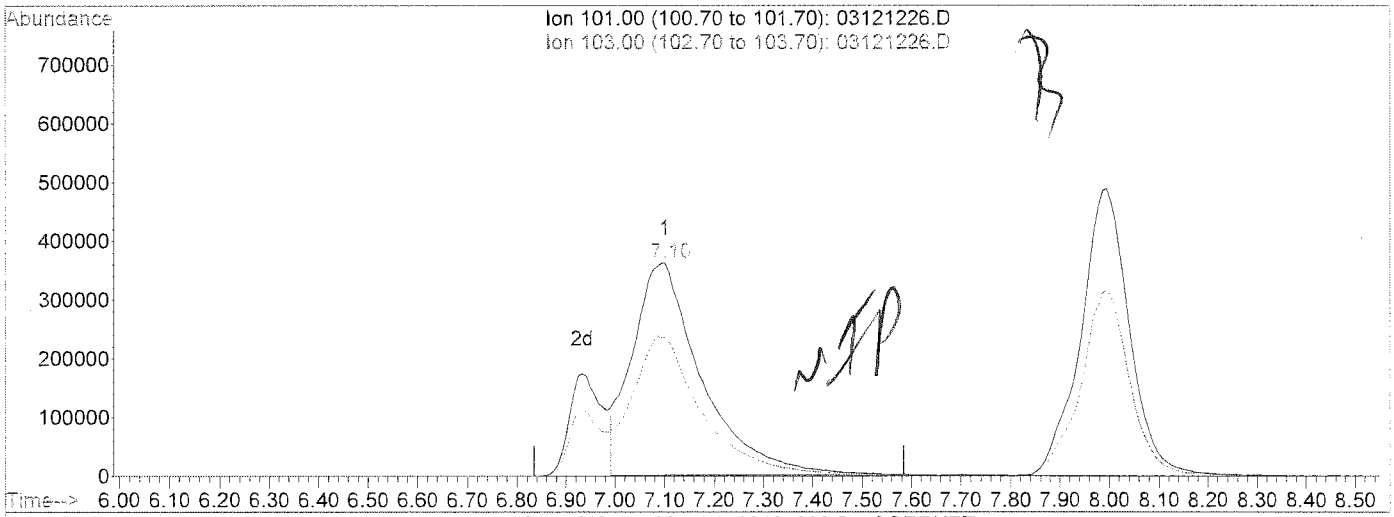
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

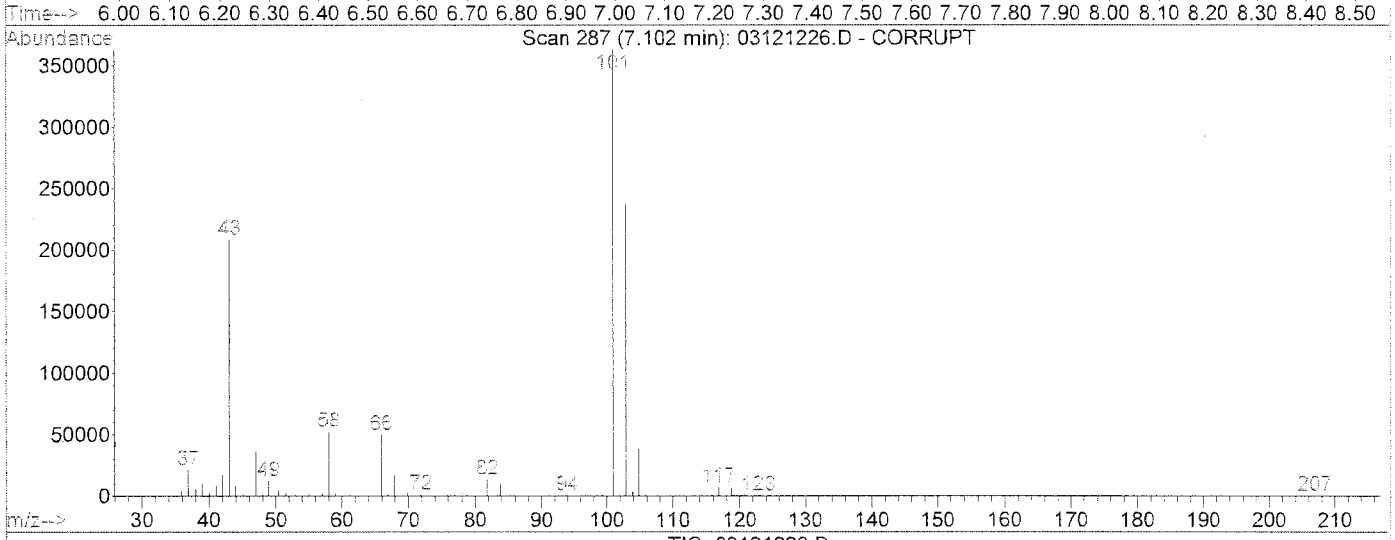


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 170.05ug/L

response 3518456

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.08
0.00	0.00	0.00
0.00	0.00	0.00

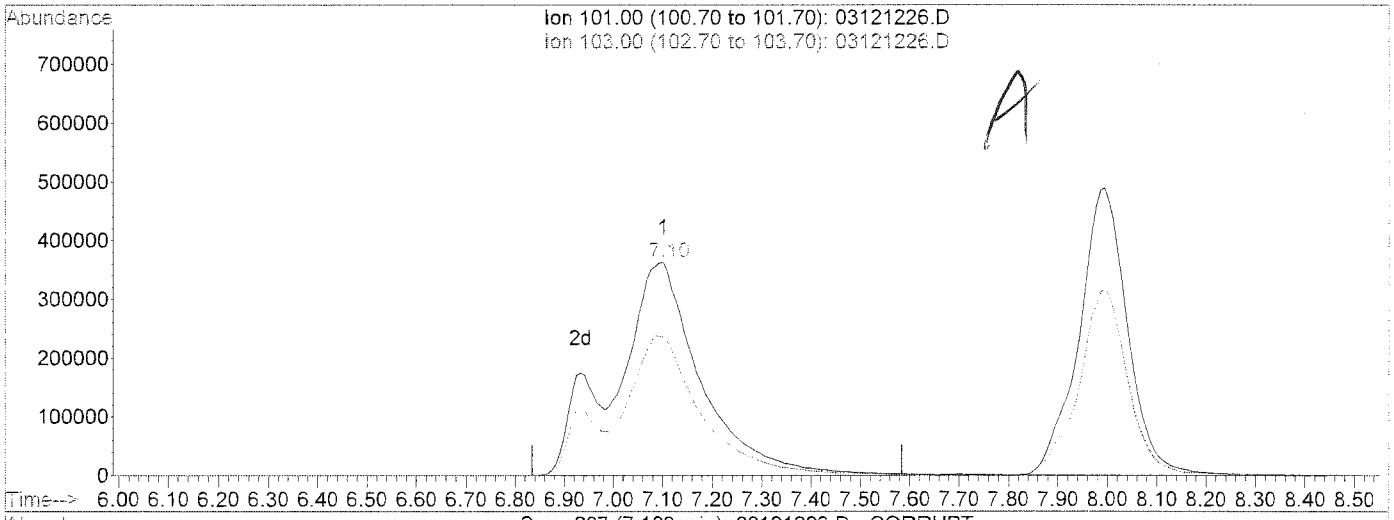
3/14/12

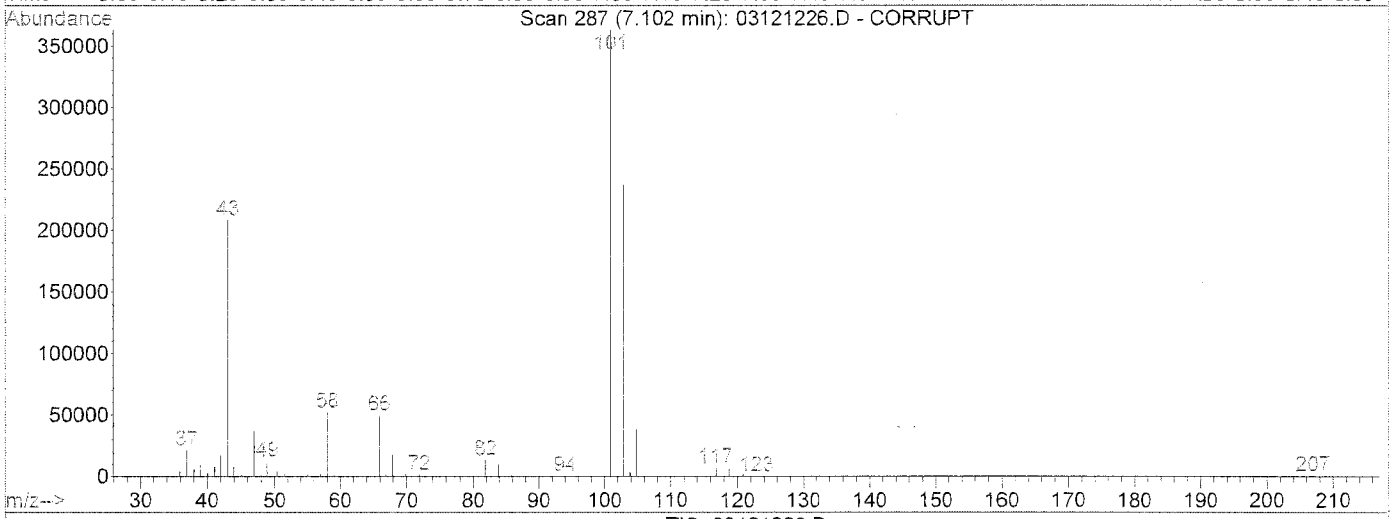
03121226.D 031212.M Wed Mar 14 10:51:00 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

3/14/12

7.10min 214.14ug/L m

response 4430661

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.21
0.00	0.00	0.00
0.00	0.00	0.00

03121226.D 031212.M Wed Mar 14 10:51:19 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Recalc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	96595	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	553774	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	904577	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	760529	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	338639	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311262	23.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.28%	
50) Toluene-d8 (surr)	14.19	98	1007514	24.88 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.52%	
64) 4-Bromofluorobenzene (surr	17.83	95	363668	23.35 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.40%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	124917	2068.32 ug/L #	28
3) tert-Butanol (TBA)	7.69	59	801164	950.56 ug/L	98
5) Dichlorodifluoromethane	4.88	85	4063301	159.27 ug/L >20%	99
6) Chloromethane	5.15	50	3758158	128.31 ~~ug/L~~ Delted	98
7) Vinyl Chloride	5.51	62	4116006	166.64 ug/L	99
8) 1,3-Butadiene	5.58	54	2565130	175.53 ug/L	96
9) Bromomethane	6.04	94	3082911	172.15 ug/L	99
10) Chloroethane	6.20	64	2661085	183.24 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.10	101	4430661m	214.14 ug/L	
13) Acetone	7.10	43	954014	211.53 ug/L	98
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	4870455	190.25 ug/L	99
16) 1,1-Dichloroethene	7.73	96	3054562	189.33 ug/L	95
17) Methylene Chloride	7.86	84	3361167	170.53 ug/L	95
18) Freon 113	7.99	101	3315720	184.82 ug/L	98
19) Carbon Disulfide	8.31	76	8694500	196.53 ug/L	100
20) trans-1,2-Dichloroethene	8.73	96	3283795	178.17 ug/L	98
21) MTBE	8.86	73	5463773	196.80 ug/L	99
22) 1,1-Dichloroethane	9.05	63	5526084	166.32 ug/L	99
23) Vinyl Acetate	9.19	43	4583088	193.62 ug/L	100
24) n-Hexane	9.55	86	604517	191.20 ug/L #	92
25) 2-Butanone (MEK)	9.59	72	203308	200.23 ug/L #	17
26) Diisopropylether (DIPE)	9.60	45	10601248	172.67 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	3158561	188.69 ug/L	97
28) Bromochloromethane	9.99	128	1292731	190.17 ug/L	91
29) Chloroform	10.04	83	4936568	168.88 ug/L	98
30) 2,2-Dichloropropane	10.15	77	2814169	162.06 ug/L	92
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	7605392	199.63 ug/L	99
33) Tetrahydrofuran	10.47	72	160376	226.91 ug/L #	87
34) 1,2-Dichloroethane	10.89	62	3292179	178.51 ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	4122428	179.72 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	5447757	208.77 ug/L	96
38) 1,1-Dichloropropene	11.25	75	3706202	188.94 ug/L	97
39) Carbon Tetrachloride	11.48	117	3679309	181.33 ug/L	99
40) Benzene	11.54	78	8721347	167.59 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 031212.M Wed Mar 14 10:51:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

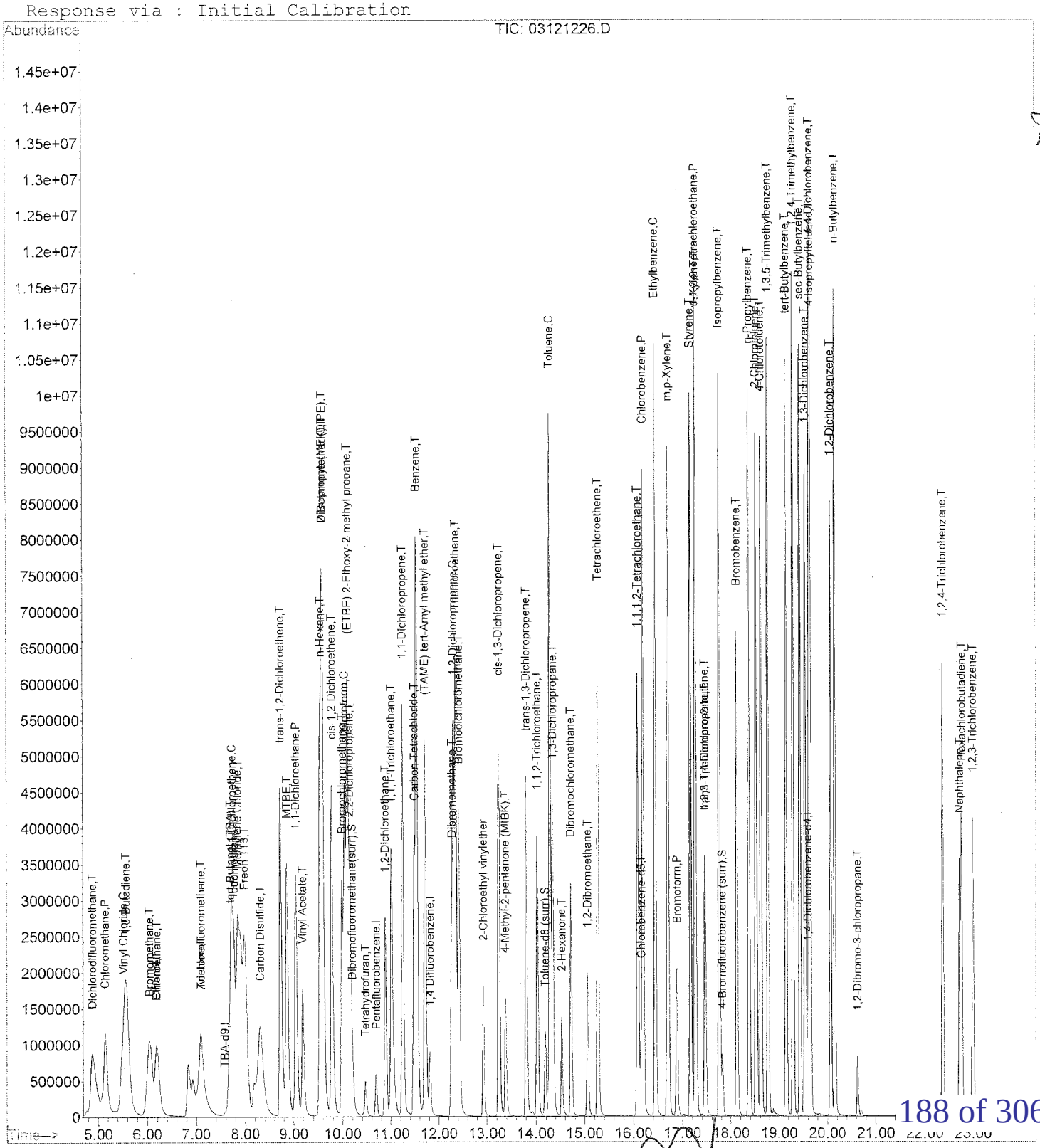
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	1427822	189.08 ug/L	97
42)	1,2-Dichloropropane	12.31	63	2518345	171.19 ug/L	99
43)	Trichloroethene	12.35	95	2719453	177.96 ug/L	97
44)	Bromodichloromethane	12.42	83	3557618	180.20 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	998008	202.12 ug/L	100
46)	cis-1,3-Dichloropropene	13.25	75	3905303	205.79 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	1803155	221.05 ug/L	96
48)	trans-1,3-Dichloropropene	13.81	75	3307315	198.09 ug/L	97
49)	1,1,2-Trichloroethane	14.03	97	1756140	193.97 ug/L	97
51)	Toluene	14.29	92	5815593	180.65 ug/L	94
53)	1,3-Dichloropropane	14.35	76	2981270	185.87 ug/L	99
54)	2-Hexanone	14.53	43	1443232	237.21 ug/L	98
55)	Dibromochloromethane	14.72	129	2321535	201.49 ug/L	99
56)	1,2-Dibromoethane	15.06	107	1900513	205.86 ug/L	100
57)	Tetrachloroethene	15.28	164	2116145	189.28 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	2401823	191.40 ug/L	99
59)	Chlorobenzene	16.19	112	6445964	172.50 ug/L	98
60)	Ethylbenzene	16.45	91	10128358	172.37 ug/L	94
61)	m,p-Xylene	16.71	106	4488388	193.70 ug/L	92
62)	Styrene	17.16	104	6784462	190.46 ug/L	98
63)	o-Xylene	17.27	106	4198413	182.78 ug/L	90
66)	Bromoform	16.89	173	1347477	224.51 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.26	83	1505679	168.41 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	502973	206.69 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.47	53	640336	210.23 ug/L	92
70)	Isopropylbenzene	17.76	105	9268867	190.52 ug/L	95
71)	Bromobenzene	18.12	156	2487312	200.12 ug/L	94
72)	n-Propylbenzene	18.38	91	10978924	176.10 ug/L	92
73)	2-Chlorotoluene	18.52	91	7185794	176.04 ug/L	94
74)	4-Chlorotoluene	18.62	91	7248392	176.72 ug/L	93
75)	1,3,5-Trimethylbenzene	18.77	105	8027401	177.53 ug/L	93
76)	tert-Butylbenzene	19.15	119	6685641	194.80 ug/L	96
77)	1,2,4-Trimethylbenzene	19.30	105	8304938	180.87 ug/L	93
78)	sec-Butylbenzene	19.44	105	9642649	171.44 ug/L	93
79)	1,3-Dichlorobenzene	19.55	146	4502973	182.58 ug/L	97
80)	1,4-Dichlorobenzene	19.63	146	4447544	180.51 ug/L	99
81)	4-Isopropyltoluene	19.66	119	7917757	172.80 ug/L	97
82)	1,2-Dichlorobenzene	20.06	146	3898725	189.04 ug/L	99
83)	n-Butylbenzene	20.16	91	7337239	170.87 ug/L	94
84)	1,2-Dibromo-3-chloropropan	20.63	75	244755	207.79 ug/L	90
85)	1,2,4-Trichlorobenzene	22.36	180	2814228	207.99 ug/L	99
86)	Naphthalene	22.72	128	3722542	205.29 ug/L	98
87)	Hexachlorobutadiene	22.76	225	1232215	178.63 ug/L	99
88)	1,2,3-Trichlorobenzene	23.00	180	1982979	189.46 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 031212.M Wed Mar 14 10:51:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



ANALYTICAL DATA

METHOD: 8260

DATE: 03/13/12

WORK ORDER: PVC0465

Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 3/13/12 QC BATCH # (s) : 12C0524

ANALYST: M SEQUENCE FILE: C:\GCMS9\DATA\ 03/312.S

CALIBRATION METHOD(S): 031212.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	03131201	Tune	2ml	NA	8260	NA	
2	02	25ppb CW	✓	↓	↓	H2O	
3	03	12C0524-BS1	✓	↓	↓	↓	
4	04	-BSD1	✓	↓	↓	↓	
5	05	-MS1	✓	↓	↓	↓	
6	06	-MSD1	✓	↓	↓	↓	
* 7	07	Blank	✓	↓	↓	↓	
8	08	12C0524-BLK1	✓	↓	↓	↓	
08	09	PVC0465-05A	✓	✓	↓	↓	TB
09	10	PVC0524-03A	✓	✓	↓	↓	↓
10	11	-01A	✓	✓	↓	↓	Smoke
11	12	-02A	✓	✓	↓	↓	
12	13	-04A	✓	✓	↓	↓	
13	14	-05A	✓	✓	↓	↓	
14	15	-06A	✓	✓	↓	↓	
15	16	-07A	✓	✓	↓	↓	
16	17	-08A	✓	✓	↓	↓	
17	18	PVC0465-01G	✓	✓	↓	↓	
18	19	-02A	✓	✓	↓	↓	
19	20	-03G	✓	✓	↓	↓	
20	21	-04G	✓	✓	↓	↓	
21	22	PVC0766-02B RTG 10ml→1ml	✓	✓	↓	↓	R-run TCE 10X
22	23	-04B RTG 10ml→1ml	✓	✓	↓	↓	R-run TCE 10X
23	24	Blank	✓	NA	↓	↓	
24	25	Blank	✓	↓	↓	↓	

3/14/12

STANDARD ID NUMBERS

ICV / H_2O LCS: PV01459

CCV/CALIBRATION STD: PV1506 / PV01212

IS/Surrogate: PV01488

BFB: PV01465

REQUIRED REVIEWS

25ppb PREPARATION: 25ul cal std → 5ml cw

NA PREPARATION: NA

ARCHON REVIEWED By/Date: 3/14/12 M

SEQUENCE REVIEWED By/Date: M 3/15/12

FINAL REVIEWER / Date: M 3/15/12

* 3/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\031312

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03131201.D	1.	TUNE		13 Mar 2012 09:42
2	2	03131202.D	1.	25 PPB CCV		13 Mar 2012 10:04
3	3	03131203.D	1.	12C0524-BS1		13 Mar 2012 10:45
4	4	03131204.D	1.	12C0524-BSD1		13 Mar 2012 11:16
5	5	03131205.D	1.	12C0524-MS1		13 Mar 2012 11:49
6	5	03131206.D	1.	12C0524-MSD1		13 Mar 2012 12:21
7	6	03131207.D	1.	blank		13 Mar 2012 12:52
8	7	03131208.D	1.	12C0524-BLK1		13 Mar 2012 13:23
9	8	03131209.D	1.	PVC0465-05		13 Mar 2012 13:55
10	9	03131210.D	1.	PVC0524-03		13 Mar 2012 14:27
11	10	03131211.D	1.	PVC0524-01		13 Mar 2012 14:58
12	11	03131212.D	1.	PVC0524-02		13 Mar 2012 15:29
13	12	03131213.D	1.	PVC0524-04		13 Mar 2012 16:00
14	13	03131214.D	1.	PVC0524-05		13 Mar 2012 16:32
15	14	03131215.D	1.	PVC0524-06		13 Mar 2012 17:03
16	15	03131216.D	1.	PVC0524-07		13 Mar 2012 17:34
17	16	03131217.D	1.	PVC0524-08		13 Mar 2012 18:06
18	17	03131218.D	1.	PVC0465-01		13 Mar 2012 18:38
19	18	03131219.D	1.	PVC0465-02		13 Mar 2012 19:09
20	19	03131220.D	1.	PVC0465-03		13 Mar 2012 19:40
21	20	03131221.D	1.	PVC0465-04		13 Mar 2012 20:13
22	21	03131222.D	1.	PVC0766-02RE1	10X	13 Mar 2012 20:44
23	22	03131223.D	1.	PVC0766-04RE1	10X	13 Mar 2012 21:15
24	23	03131224.D	1.	BLANK		13 Mar 2012 21:47
25	24	03131225.D	1.	BLANK		13 Mar 2012 22:18

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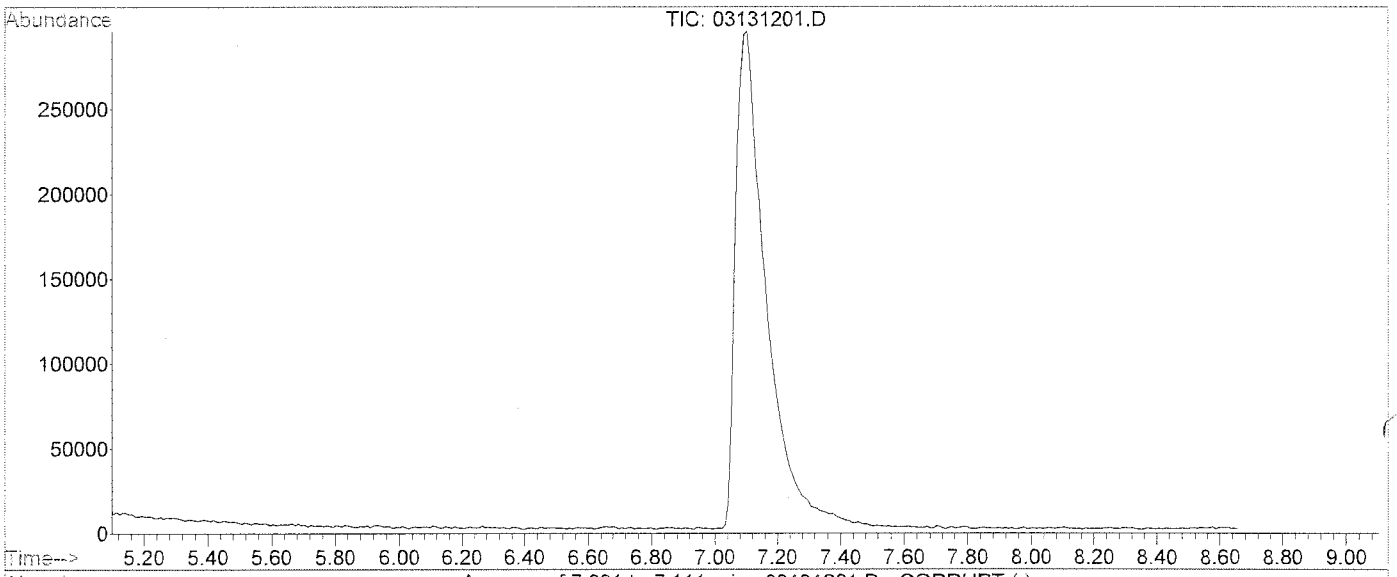
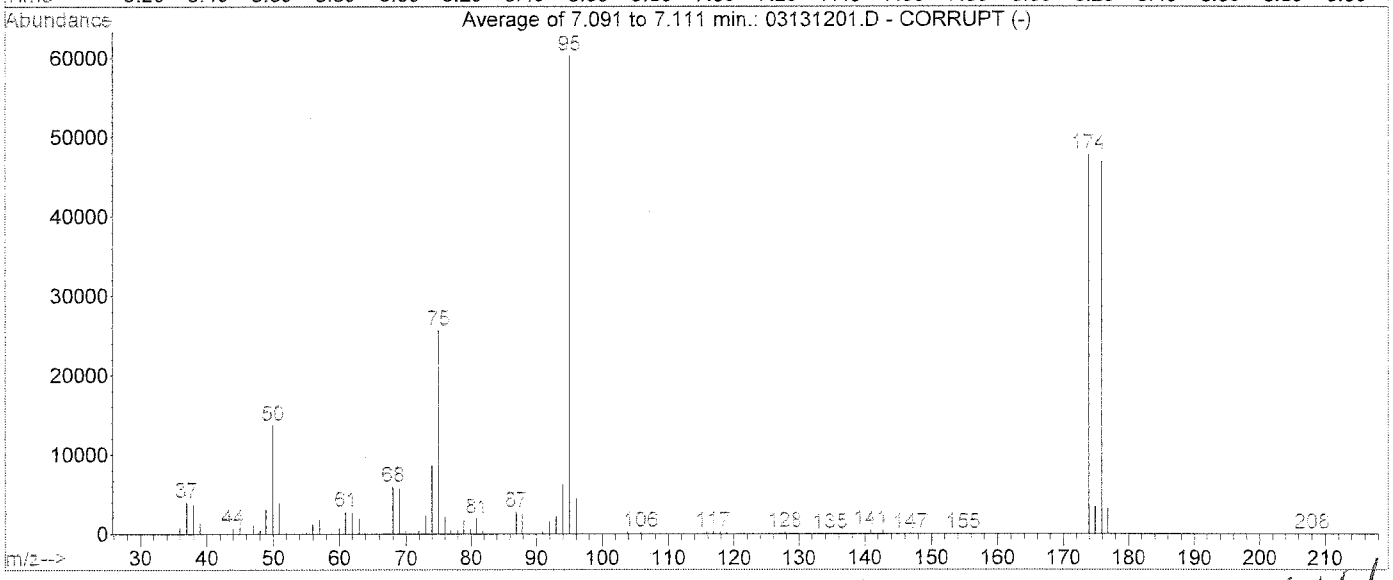
3/14/12

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131201.D Vial: 1
Acq On : 13 Mar 2012 9:42 am Operator: ms
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260





3/14/12

Spectrum Information: Average of 7.091 to 7.111 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	13691	PASS
75	95	30	60	42.6	25677	PASS
95	95	100	100	100.0	60315	PASS
96	95	5	9	7.3	4403	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.3	47813	PASS
175	174	5	9	7.2	3445	PASS
176	174	95	101	98.1	46904	PASS
177	176	5	9	6.7	3154	PASS

03131201.D 031212.M Wed Mar 14 11:15:09 2012

M 3/14/12

8260 CCV/ICV Custom Report

Data File Name	03131202.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031312\
Operator	ms
Date Acquired	3/13/2012 10:04
Acq. Method File	8260C
Sample Name	25 PPB CCV
Instrument Name	GCMS9

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	103181	80167	40083.5	160334	TRUE
Pentafluorobenzene	546178	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	868477	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	732570	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	334932	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	6.56	250	3%	36%	150%	FALSE NR
tert-Butanol (TBA)	27.99	125	22%	70%	134%	FALSE
Dichlorodifluoromethane	23.32	25	93%	60%	140%	TRUE
Chloromethane	23.58	25	94%	48%	144%	TRUE
Vinyl Chloride	22.03	25	88%	80%	120%	TRUE
1,3-Butadiene	22.61	25	90%	50%	141%	TRUE
Bromomethane	20.96	25	84%	40%	144%	TRUE
Chloroethane	20.93	25	84%	60%	132%	TRUE
Acrolein	0.00	25	0%	80%	120%	FALSE NR
Trichlorofluoromethane	21.42	25	86%	68%	136%	TRUE
Acetone	22.44	25	90%	12%	150%	TRUE
Acrylonitrile	0.00	25	0%	80%	120%	FALSE NR
Iodomethane	19.96	25	80%	40%	150%	TRUE
1,1-Dichloroethene	21.03	25	84%	80%	120%	TRUE
Methylene Chloride	19.23	25	77%	68%	128%	TRUE
Freon 113	20.43	25	82%	76%	124%	TRUE
Carbon Disulfide	20.33	25	81%	64%	136%	TRUE 3/14/12
trans-1,2-Dichloroethene	20.53	25	82%	76%	120%	TRUE
MTBE	22.04	25	88%	64%	140%	TRUE
1,1-Dichloroethane	19.93	25	80%	72%	124%	TRUE
Vinyl Acetate	24.19	25	97%	48%	150%	TRUE
n-Hexane	23.20	25	93%	56%	150%	TRUE
2-Butanone (MEK)	21.03	25	84%	44%	150%	TRUE
Diisopropylether (DIPE)	20.67	25	83%	72%	132%	TRUE
cis-1,2-Dichloroethene	21.58	25	86%	72%	128%	TRUE
Bromochloromethane	21.68	25	87%	72%	132%	TRUE
Chloroform	19.93	25	80%	80%	120%	~~FALSE~~ TRUE MJ 3/14/12
2,2-Dichloropropane	21.10	25	84%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	22.55	25	90%	72%	140%	TRUE
Dibromofluoromethane(surr)	22.98	25	92%	80%	120%	TRUE
Tetrahydrofuran	23.45	25	94%	64%	139%	TRUE
1,2-Dichloroethane	19.86	25	79%	68%	136%	TRUE

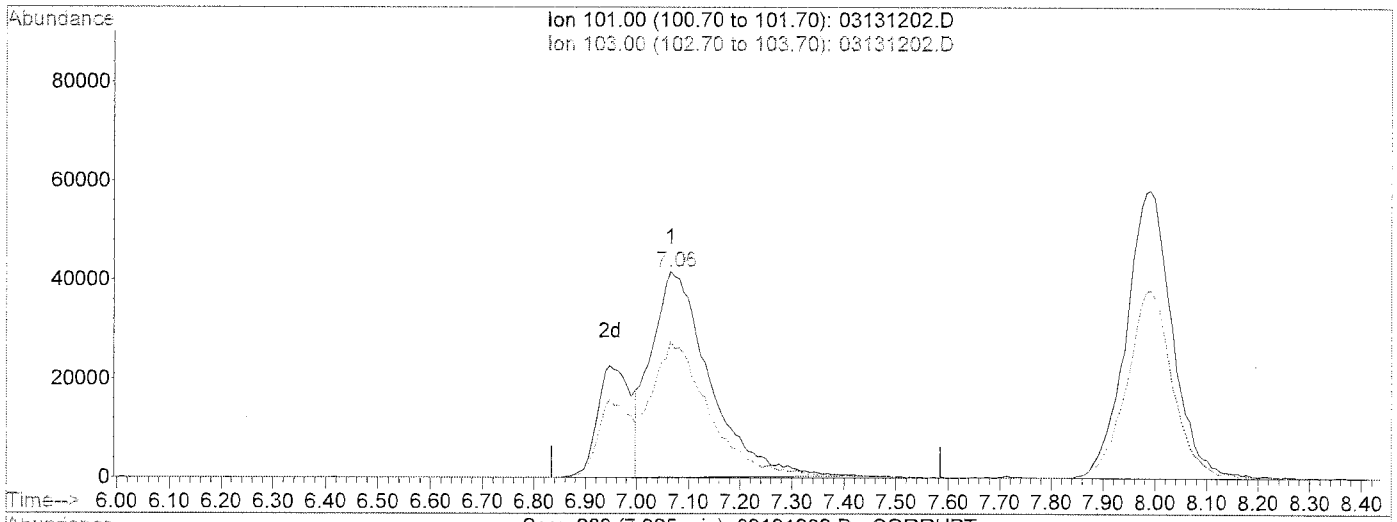
MJ 3/14/12

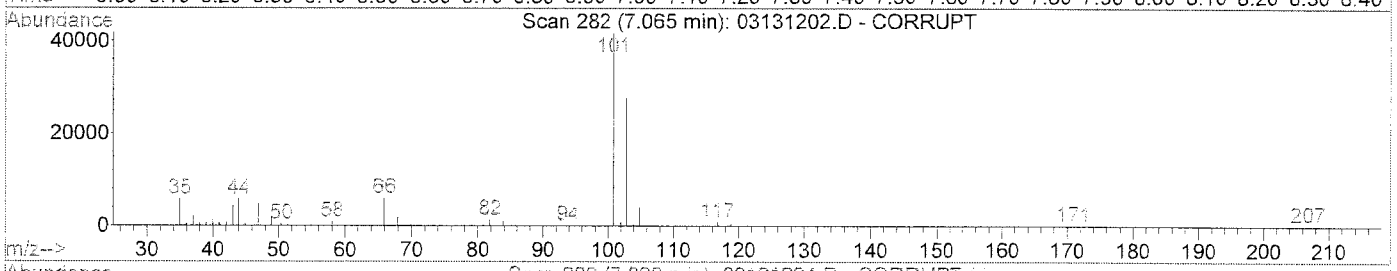
1,1,1-Trichloroethane	20.55	25	82%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	22.59	25	90%	68%	140%	TRUE
1,1-Dichloropropene	22.39	25	90%	76%	128%	TRUE
Carbon Tetrachloride	20.84	25	83%	72%	136%	TRUE
Benzene	21.87	25	87%	76%	120%	TRUE
Dibromomethane	21.26	25	85%	72%	132%	TRUE
1,2-Dichloropropane	21.54	25	86%	80%	120%	TRUE
Trichloroethene	21.16	25	85%	80%	120%	TRUE
Bromodichloromethane	20.46	25	82%	76%	128%	TRUE
2-Chloroethyl vinylether	23.72	25	95%	10%	150%	TRUE
cis-1,3-Dichloropropene	23.96	25	96%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	22.44	25	90%	60%	144%	TRUE
trans-1,3-Dichloropropene	22.14	25	89%	68%	140%	TRUE
1,1,2-Trichloroethane	22.33	25	89%	72%	132%	TRUE
Toluene-d8 (surr)	25.02	25	100%	80%	120%	TRUE
Toluene	22.22	25	89%	80%	120%	TRUE
1,3-Dichloropropane	21.19	25	85%	80%	124%	TRUE
2-Hexanone	22.25	25	89%	52%	150%	TRUE
Dibromochloromethane	21.19	25	85%	80%	128%	TRUE
1,2-Dibromoethane	22.04	25	88%	80%	128%	TRUE
Tetrachloroethene	21.86	25	87%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	21.82	25	87%	76%	124%	TRUE
Chlorobenzene	21.54	25	86%	80%	120%	TRUE
Ethylbenzene	22.72	25	91%	80%	120%	TRUE
m,p-Xylene	23.10	25	92%	80%	120%	TRUE
Styrene	23.31	25	93%	84%	124%	TRUE
o-Xylene	22.15	25	89%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	23.91	25	96%	80%	120%	TRUE
Bromoform	21.93	25	88%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	21.27	25	85%	68%	132%	TRUE
1,2,3-Trichloropropane	22.64	25	91%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	22.79	25	91%	48%	138%	TRUE
Isopropylbenzene	23.50	25	94%	76%	132%	TRUE
Bromobenzene	22.53	25	90%	76%	128%	TRUE
n-Propylbenzene	23.22	25	93%	76%	132%	TRUE
2-Chlorotoluene	21.97	25	88%	80%	124%	TRUE
4-Chlorotoluene	22.10	25	88%	80%	124%	TRUE
1,3,5-Trimethylbenzene	22.56	25	90%	80%	128%	TRUE
tert-Butylbenzene	23.68	25	95%	76%	132%	TRUE
1,2,4-Trimethylbenzene	23.10	25	92%	80%	128%	TRUE
sec-Butylbenzene	22.79	25	91%	80%	128%	TRUE
1,3-Dichlorobenzene	22.10	25	88%	80%	124%	TRUE
1,4-Dichlorobenzene	21.43	25	86%	76%	120%	TRUE
4-Isopropyltoluene	22.85	25	91%	80%	128%	TRUE
1,2-Dichlorobenzene	23.00	25	92%	80%	124%	TRUE
n-Butylbenzene	23.09	25	92%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	23.89	25	96%	64%	128%	TRUE
1,2,4-Trichlorobenzene	26.08	25	104%	76%	128%	TRUE
Naphthalene	26.60	25	106%	68%	136%	TRUE
Hexachlorobutadiene	23.63	25	95%	76%	132%	TRUE
1,2,3-Trichlorobenzene	26.07	25	104%	72%	128%	TRUE

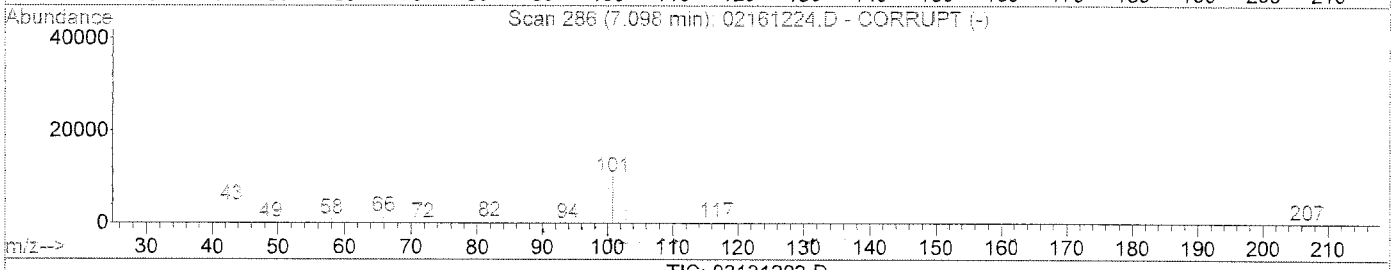
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration







TIC: 03131202.D

(12) Trichlorofluoromethane (T)

7.06min 16.02ug/L

response 326967

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.68
0.00	0.00	0.00
0.00	0.00	0.00

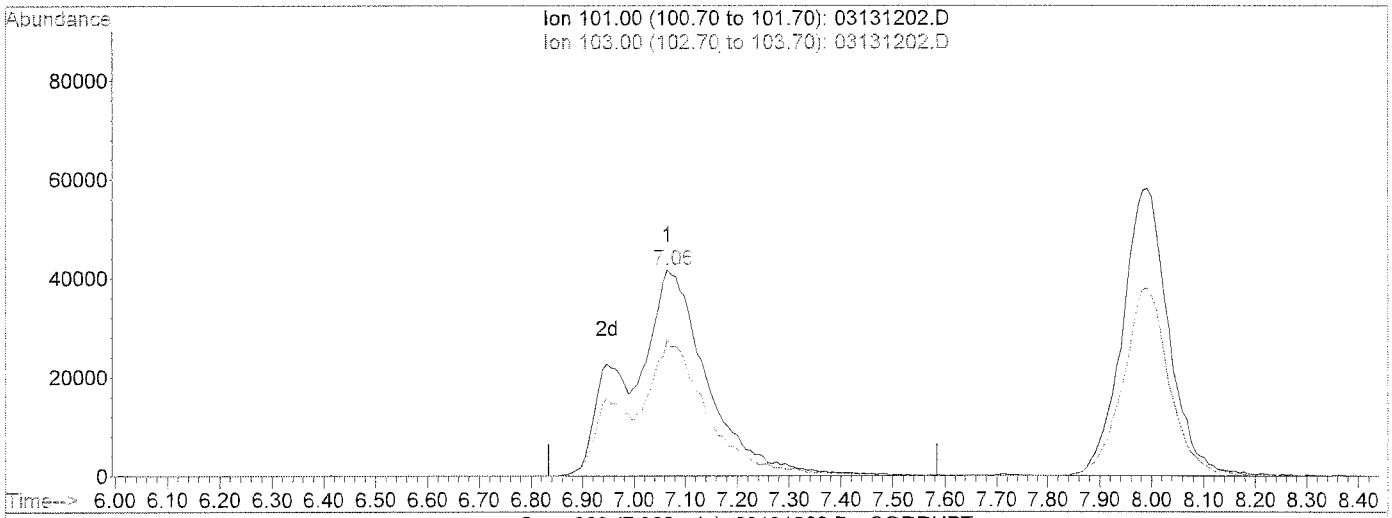
B SP
3/14/12

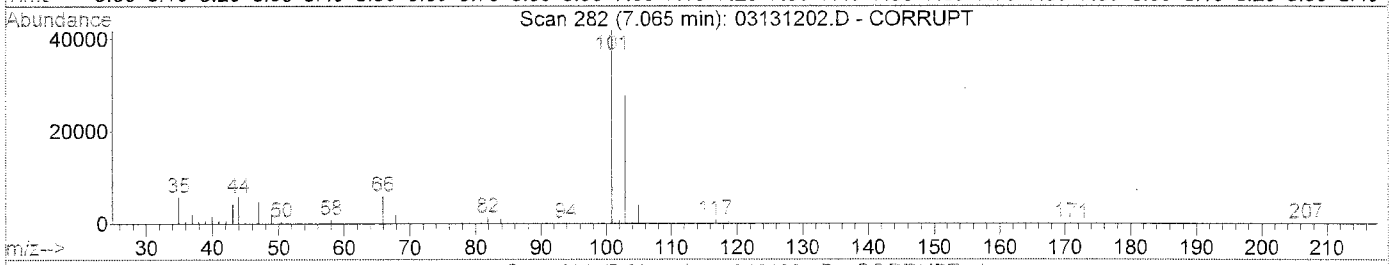
03131202.D 031212.M Wed Mar 14 11:15:32 2012

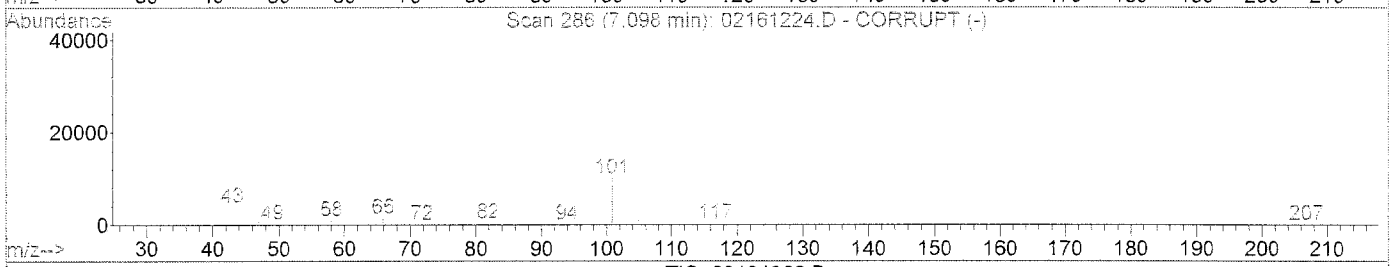
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration







TIC: 03131202.D

(12) Trichlorofluoromethane (T)

7.06min 21.42ug/L m

response 437094

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.21
0.00	0.00	0.00
0.00	0.00	0.00

after

3/14/12

03131202.D 031212.M Wed Mar 14 11:15:36 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	103181	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	546178	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	868477	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	732570	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	334932	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	302505	22.98 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.92%	
50) Toluene-d8 (surr)	14.19	98	972861	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.08%	
64) 4-Bromofluorobenzene (surr	17.83	95	358725	23.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.64%	

Target Compounds					Qvalue
2) Ethanol	6.31	45	423	6.56 ug/L	97
3) tert-Butanol (TBA)	7.71	59	25202	27.99 ug/L #	83
5) Dichlorodifluoromethane	4.89	85	586839	23.32 ug/L	99
6) Chloromethane	5.11	50	681159	23.58 ug/L	98
7) Vinyl Chloride	5.46	62	536662	22.03 ug/L	99
8) 1,3-Butadiene	5.56	54	325914	22.61 ug/L	97
9) Bromomethane	6.00	94	370208	20.96 ug/L	99
10) Chloroethane	6.18	64	299761	20.93 ug/L	98
12) Trichlorofluoromethane	7.06	101	437094m	21.42 ug/L	
13) Acetone	7.10	43	99811	22.44 ug/L	99
15) Iodomethane	7.77	142	504089	19.96 ug/L	98
16) 1,1-Dichloroethene	7.71	96	334651	21.03 ug/L	96
17) Methylene Chloride	7.87	84	373821	19.23 ug/L	97
18) Freon 113	7.99	101	361497	20.43 ug/L	99
19) Carbon Disulfide	8.28	76	887098	20.33 ug/L #	95
20) trans-1,2-Dichloroethene	8.74	96	373243	20.53 ug/L	99
21) MTBE	8.87	73	603632	22.04 ug/L	100
22) 1,1-Dichloroethane	9.06	63	652960	19.93 ug/L	99
23) Vinyl Acetate	9.21	43	564674	24.19 ug/L	100
24) n-Hexane	9.55	86	72359	23.20 ug/L	97
25) 2-Butanone (MEK)	9.59	72	21062	21.03 ug/L #	58
26) Diisopropylether (DIPE)	9.60	45	1251332	20.67 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	356334	21.58 ug/L	99
28) Bromochloromethane	10.00	128	145384	21.68 ug/L	95
29) Chloroform	10.06	83	574559	19.93 ug/L	99
30) 2,2-Dichloropropane	10.17	77	361401	21.10 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	847181	22.55 ug/L	99
33) Tetrahydrofuran	10.48	72	16347	23.45 ug/L #	84
34) 1,2-Dichloroethane	10.89	62	361322	19.86 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	464951	20.55 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	581347	22.59 ug/L	98
38) 1,1-Dichloropropene	11.25	75	421735	22.39 ug/L	99
39) Carbon Tetrachloride	11.50	117	406014	20.84 ug/L	98
40) Benzene	11.55	78	1092864	21.87 ug/L	98
41) Dibromomethane	12.27	93	154117	21.26 ug/L	97
42) 1,2-Dichloropropane	12.31	63	304287	21.54 ug/L	98

(#) = qualifier out of range (m) = manual integration

3/14/12

03131202.D 031212.M Wed Mar 14 11:15:59 2012 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

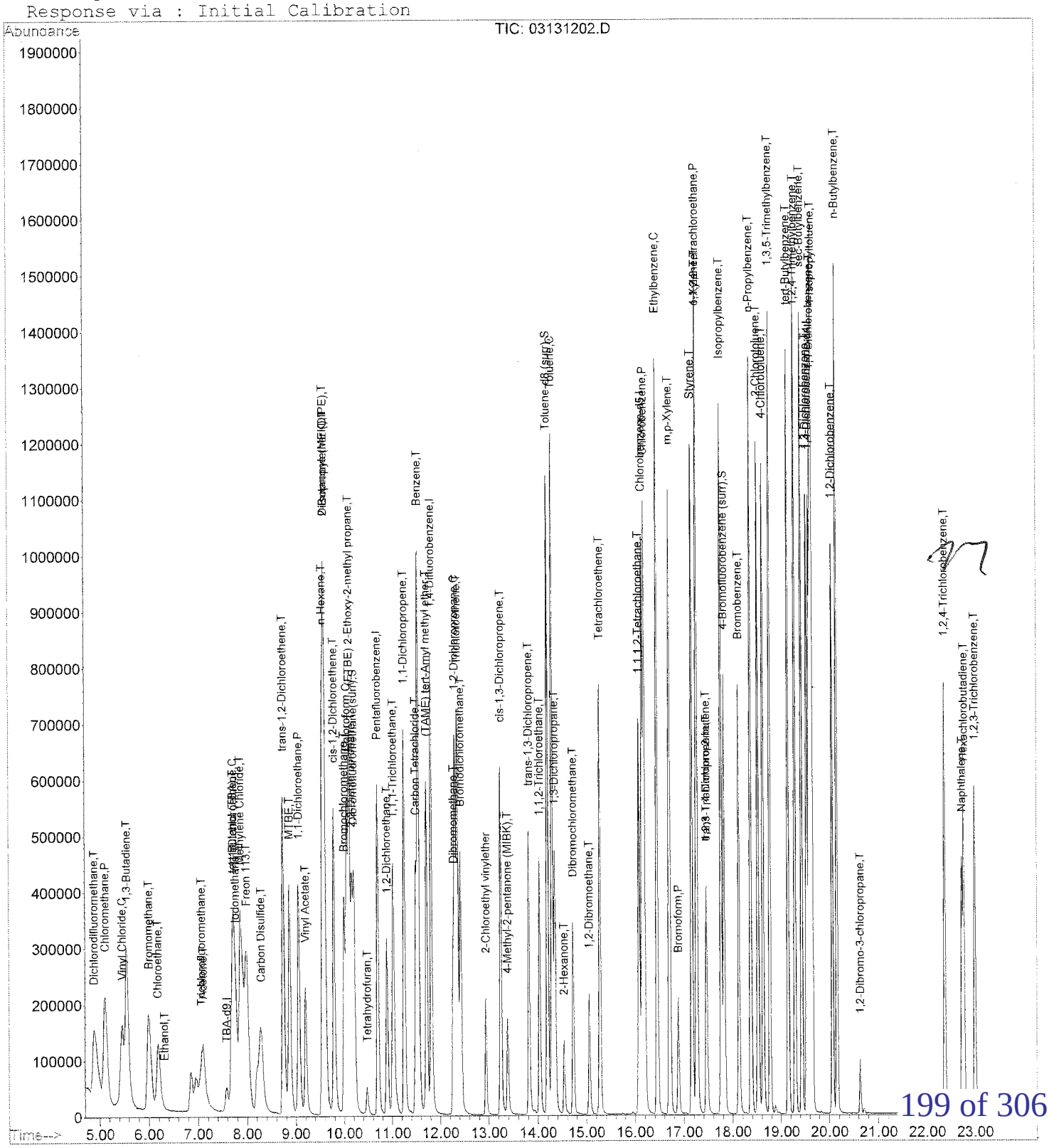
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) Trichloroethene	12.36	95	310411	21.16 ug/L	97
44) Bromodichloromethane	12.42	83	387849	20.46 ug/L	99
45) 2-Chloroethyl vinylether	12.94	63	106781	23.72 ug/L	100
46) cis-1,3-Dichloropropene	13.25	75	436585	23.96 ug/L	97
47) 4-Methyl-2-pentanone (MIBK	13.39	43	175747	22.44 ug/L	95
48) trans-1,3-Dichloropropene	13.82	75	351542	22.14 ug/L	97
49) 1,1,2-Trichloroethane	14.03	97	194107	22.33 ug/L	97
51) Toluene	14.30	92	686904	22.22 ug/L	99
53) 1,3-Dichloropropane	14.35	76	327327	21.19 ug/L	99
54) 2-Hexanone	14.53	43	130385	22.25 ug/L	98
55) Dibromochloromethane	14.73	129	235193	21.19 ug/L	100
56) 1,2-Dibromoethane	15.06	107	196020	22.04 ug/L	99
57) Tetrachloroethene	15.28	164	235406	21.86 ug/L	99
58) 1,1,1,2-Tetrachloroethane	16.09	131	263755	21.82 ug/L	98
59) Chlorobenzene	16.20	112	775389	21.54 ug/L	98
60) Ethylbenzene	16.44	91	1285752	22.72 ug/L	99
61) m,p-Xylene	16.71	106	515586	23.10 ug/L	96
62) Styrene	17.17	104	796729	23.31 ug/L	98
63) o-Xylene	17.26	106	490152	22.15 ug/L	99
66) Bromoform	16.89	173	130165	21.93 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	188125	21.27 ug/L	98
68) 1,2,3-Trichloropropane	17.46	110	54485	22.64 ug/L	98
69) trans-1,4-Dichloro-2-buten	17.47	53	68670	22.79 ug/L	96
70) Isopropylbenzene	17.76	105	1130970	23.50 ug/L	99
71) Bromobenzene	18.13	156	276970	22.53 ug/L	97
72) n-Propylbenzene	18.37	91	1431563	23.22 ug/L	99
73) 2-Chlorotoluene	18.52	91	887099	21.97 ug/L	98
74) 4-Chlorotoluene	18.63	91	896583	22.10 ug/L	98
75) 1,3,5-Trimethylbenzene	18.77	105	1009041	22.56 ug/L	98
76) tert-Butylbenzene	19.15	119	803678	23.68 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	1048987	23.10 ug/L	98
78) sec-Butylbenzene	19.43	105	1267741	22.79 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	539005	22.10 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	522148	21.43 ug/L	100
81) 4-Isopropyltoluene	19.66	119	1035405	22.85 ug/L	98
82) 1,2-Dichlorobenzene	20.06	146	469182	23.00 ug/L	99
83) n-Butylbenzene	20.15	91	980795	23.09 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	27829	23.89 ug/L	94
85) 1,2,4-Trichlorobenzene	22.37	180	348994	26.08 ug/L	99
86) Naphthalene	22.72	128	477049	26.60 ug/L	99
87) Hexachlorobutadiene	22.77	225	161206	23.63 ug/L	100
88) 1,2,3-Trichlorobenzene	22.99	180	269823	26.07 ug/L	100

(#) = qualifier out of range (m) = manual integration
03131202.D 031212.M Wed Mar 14 11:16:00 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	129	0.00
2	T	Ethanol	0.125	0.003	97.6#	4#	0.13
3	T	tert-Butanol (TBA)	1.745	0.391	77.6#	28#	0.02
4	I	Pentafluorobenzene	1.000	1.000	0.0	111	0.00
5	T	Dichlorodifluoromethane	1.152	1.074	6.8	103	-0.01
6	P	Chloromethane	1.322	1.247	5.7	105	-0.02
7	C	Vinyl Chloride	1.115	0.983	11.8	95	-0.02
8	T	1,3-Butadiene	0.660	0.597	9.5	97	0.00
9	T	Bromomethane	0.808	0.678	16.1	97	0.00
10	T	Chloroethane	0.656	0.549	16.3	93	-0.02
11		Acrolein	0.000	0.000	0.0	0#	-0.07
12	T	Trichlorofluoromethane	0.934	0.800	14.3	88	-0.02
13	T	Acetone	0.204	0.183	10.3	110	-0.01
14		Acrylonitrile	0.000	0.000	0.0	0#	0.00
15	T	Iodomethane	1.156	0.923	20.2	90	-0.01
16	C	1,1-Dichloroethene	0.728	0.613	15.8	94	0.00
17	T	Methylene Chloride	0.890	0.684	23.1	92	0.00
18	T	Freon 113	0.810	0.662	18.3	91	-0.01
19	T	Carbon Disulfide	1.997	1.624	18.7	90	-0.02
20	T	trans-1,2-Dichloroethene	0.832	0.683	17.9	90	0.00
21	T	MTBE	1.253	1.105	11.8	95	0.00
22	P	1,1-Dichloroethane	1.500	1.196	20.3	88	0.00
23	T	Vinyl Acetate	1.069	1.034	3.3	97	0.00
24	T	n-Hexane	0.143	0.132	7.7	96	0.00
25	T	2-Butanone (MEK)	0.046	0.039	15.2	102	0.00
26	T	Diisopropylether (DIPE)	2.772	2.291	17.4	90	0.01
27	T	cis-1,2-Dichloroethene	0.756	0.652	13.8	93	0.00
28	T	Bromochloromethane	0.307	0.266	13.4	94	0.00
29	C	Chloroform	1.320	1.052	20.3	89	0.00
30	T	2,2-Dichloropropane	0.784	0.662	15.6	95	0.01
31	T	(ETBE) 2-Ethoxy-2-methyl pr	1.720	1.551	9.8	93	0.00
32	S	Dibromofluoromethane(surr)	0.602	0.554	8.0	107	0.00
33	T	Tetrahydrofuran	0.032	0.030	6.3	109	0.00
34	T	1,2-Dichloroethane	0.833	0.662	20.5	89	0.00
35	T	1,1,1-Trichloroethane	1.036	0.851	17.9	91	0.00
36	T	(TAME) tert-Amyl methyl eth	1.178	1.064	9.7	95	0.00
37	I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
38	T	1,1-Dichloropropene	0.542	0.486	10.3	92	0.00
39	T	Carbon Tetrachloride	0.561	0.468	16.6	90	0.00
40	T	Benzene	1.438	1.258	12.5	93	0.00
41	T	Dibromomethane	0.209	0.177	15.3	92	0.00
42	C	1,2-Dichloropropane	0.407	0.350	14.0	92	0.00
43	T	Trichloroethene	0.422	0.357	15.4	91	0.00
44	T	Bromodichloromethane	0.546	0.447	18.1	89	0.00
45		2-Chloroethyl vinylether	0.114	0.123	-7.9	109	0.00
46	T	cis-1,3-Dichloropropene	0.524	0.503	4.0	93	0.00
47	T	4-Methyl-2-pentanone (MIBK)	0.225	0.202	10.2	97	0.00
48	T	trans-1,3-Dichloropropene	0.416	0.405	2.6	94	0.00

(#) = Out of Range

3/14/12
M

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,1,2-Trichloroethane	0.250	0.224	10.4	98	0.00
50	S	Toluene-d8 (surr)	1.119	1.120	-0.1	109	0.00
51	C	Toluene	0.890	0.791	11.1	93	0.00
52	I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00
53	T	1,3-Dichloropropane	0.527	0.447	15.2	94	0.00
54	T	2-Hexanone	0.200	0.178	11.0	101	0.00
55	T	Dibromochloromethane	0.379	0.321	15.3	94	0.00
56	T	1,2-Dibromoethane	0.303	0.268	11.6	97	0.00
57	T	Tetrachloroethene	0.368	0.321	12.8	96	0.00
58	T	1,1,1,2-Tetrachloroethane	0.412	0.360	12.6	97	0.01
59	P	Chlorobenzene	1.228	1.058	13.8	95	0.00
60	C	Ethylbenzene	1.931	1.755	9.1	94	0.00
61	T	m,p-Xylene	0.762	0.704	7.6	94	0.00
62	T	Styrene	1.120	1.088	2.9	95	0.00
63	T	o-Xylene	0.755	0.669	11.4	92	0.00
64	S	4-Bromofluorobenzene (surr)	0.512	0.490	4.3	107	0.00
65	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
66	P	Bromoform	0.443	0.389	12.2	93	0.00
67	P	1,1,2,2-Tetrachloroethane	0.660	0.562	14.8	94	0.00
68	T	1,2,3-Trichloropropane	0.180	0.163	9.4	95	0.00
69	T	trans-1,4-Dichloro-2-butene	0.225	0.205	8.9	92	0.00
70	T	Isopropylbenzene	3.592	3.377	6.0	92	0.00
71	T	Bromobenzene	0.918	0.827	9.9	94	0.00
72	T	n-Propylbenzene	4.602	4.274	7.1	92	0.00
73	T	2-Chlorotoluene	3.014	2.649	12.1	91	0.00
74	T	4-Chlorotoluene	3.028	2.677	11.6	90	0.00
75	T	1,3,5-Trimethylbenzene	3.338	3.013	9.7	90	0.00
76	T	tert-Butylbenzene	2.534	2.400	5.3	92	0.00
77	T	1,2,4-Trimethylbenzene	3.390	3.132	7.6	91	0.00
78	T	sec-Butylbenzene	4.152	3.785	8.8	91	0.00
79	T	1,3-Dichlorobenzene	1.821	1.609	11.6	96	0.00
80	T	1,4-Dichlorobenzene	1.819	1.559	14.3	93	0.00
81	T	4-Isopropyltoluene	3.383	3.091	8.6	94	0.00
82	T	1,2-Dichlorobenzene	1.523	1.401	8.0	94	0.00
83	T	n-Butylbenzene	3.170	2.928	7.6	91	0.00
84	T	1,2-Dibromo-3-chloropropane	0.087	0.083	4.6	96	0.00
85	T	1,2,4-Trichlorobenzene	0.999	1.042	-4.3	98	0.00
86	T	Naphthalene	1.339	1.424	-6.3	101	0.00
87	T	Hexachlorobutadiene	0.509	0.481	5.5	100	0.00
88	T	1,2,3-Trichlorobenzene	0.773	0.806	-4.3	100	0.00

M

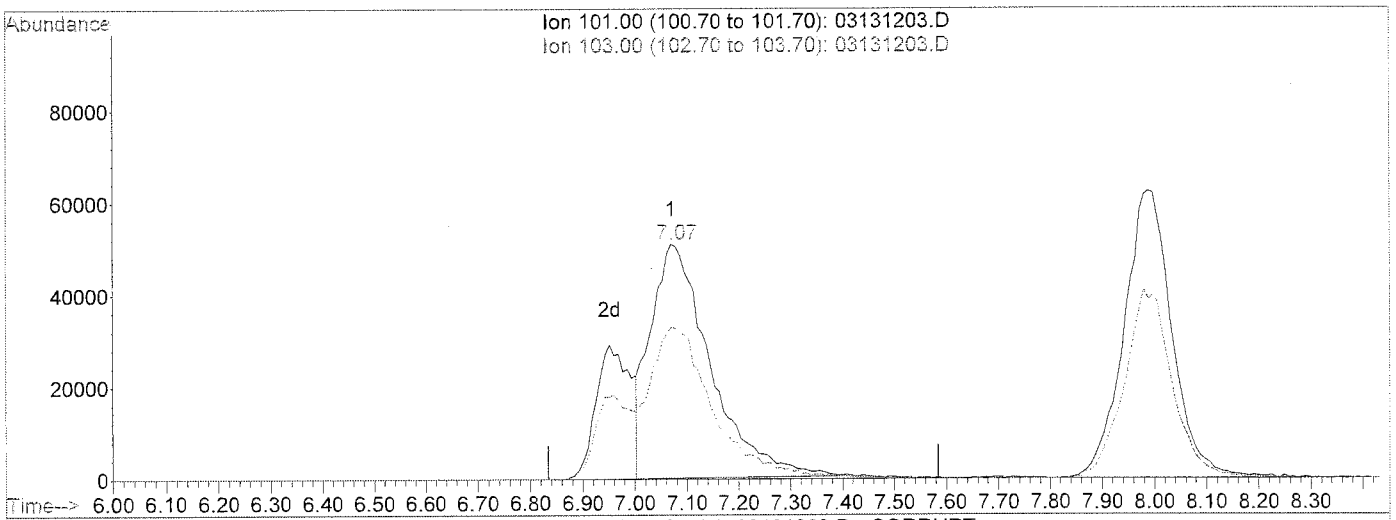
M ok

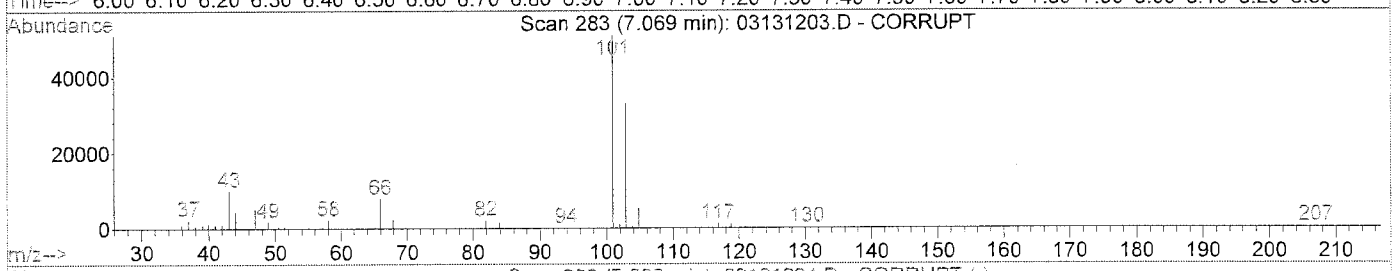
(#) = Out of Range SPCC's out = 0 CCC's out = 0
03131202.D 031212.M Wed Mar 14 11:16:25 2012

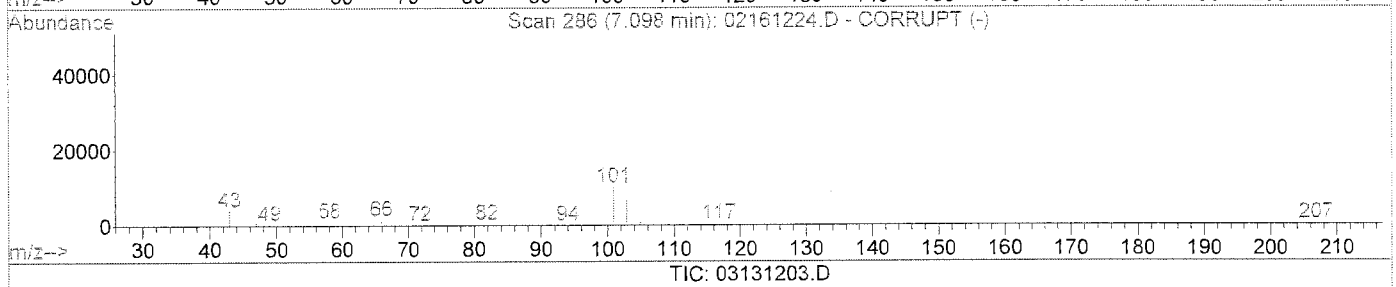
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration







TIC: 03131203.D

(12) Trichlorofluoromethane (T)

7.07min 19.62ug/L

response 407980

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.77
0.00	0.00	0.00
0.00	0.00	0.00

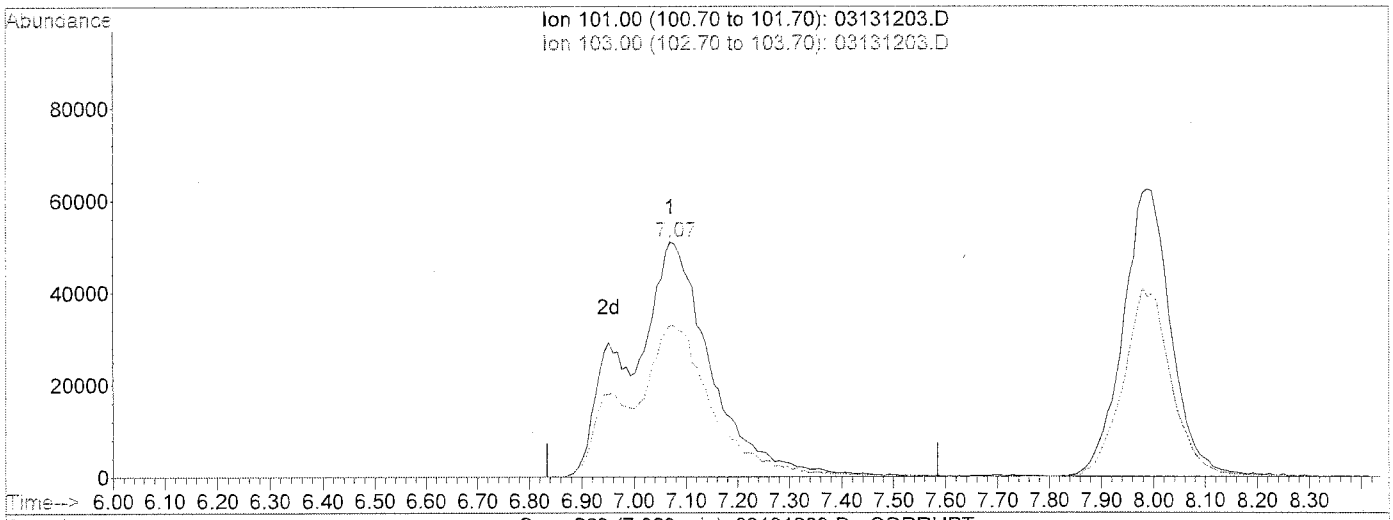
B SP
3/14/12

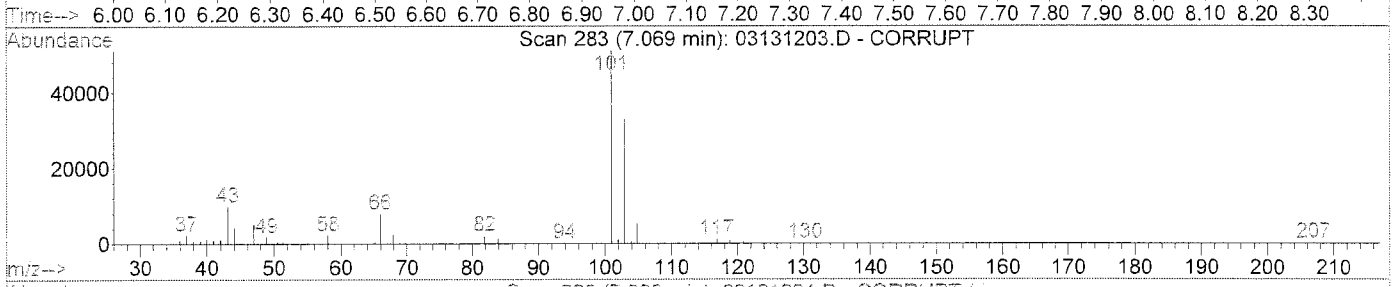
03131203.D 031212.M Wed Mar 14 11:16:47 2012

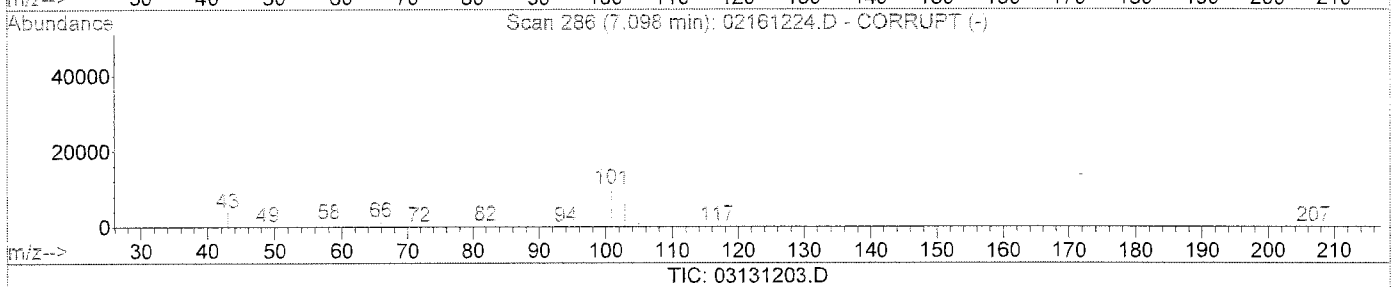
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration







TIC: 03131203.D

(12) Trichlorofluoromethane (T)

7.07min 26.72ug/L m

response 555582

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.79
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131203.D 031212.M Wed Mar 14 11:16:51 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	97160	200.00 ug/L	0.01
4) Pentafluorobenzene	10.69	168	556460	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	883180	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	770542	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	344004	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311309	23.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.84%	
50) Toluene-d8 (surr)	14.19	98	1004504	25.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.64%	
64) 4-Bromofluorobenzene (surr	17.82	95	371495	23.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.16%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	656	10.80 ug/L #	39
3) tert-Butanol (TBA)	7.71	59	26141	30.84 ug/L #	80
5) Dichlorodifluoromethane	4.90	85	617425	24.09 ug/L	100
6) Chloromethane	5.12	50	799209	27.15 ug/L	98
7) Vinyl Chloride	5.47	62	634176	25.55 ug/L	100
8) 1,3-Butadiene	5.56	54	492535	33.54 ug/L	98
9) Bromomethane	5.99	94	441563	24.54 ug/L	98
10) Chloroethane	6.18	64	360742	24.72 ug/L	99
12) Trichlorofluoromethane	7.07	101	555582m	26.72 ug/L	
13) Acetone	7.10	43	139617	30.81 ug/L	98
15) Iodomethane	7.78	142	672790	26.15 ug/L	98
16) 1,1-Dichloroethene	7.72	96	388842	23.99 ug/L	97
17) Methylene Chloride	7.86	84	428123	21.62 ug/L	98
18) Freon 113	7.99	101	396532	22.00 ug/L	100
19) Carbon Disulfide	8.29	76	1077261	24.23 ug/L	95
20) trans-1,2-Dichloroethene	8.74	96	467071	25.22 ug/L	99
21) MTBE	8.86	73	709736	25.44 ug/L	100
22) 1,1-Dichloroethane	9.06	63	783932	23.48 ug/L	100
23) Vinyl Acetate	9.20	43	699749	29.42 ug/L	100
24) n-Hexane	9.55	86	73838	23.24 ug/L	99
25) 2-Butanone (MEK)	9.60	72	30236	29.63 ug/L #	1
26) Diisopropylether (DIPE)	9.59	45	1506827	24.42 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	442293	26.30 ug/L	99
28) Bromochloromethane	9.99	128	175657	25.72 ug/L	95
29) Chloroform	10.05	83	677494	23.07 ug/L	99
30) 2,2-Dichloropropane	10.16	77	421498	24.16 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	924828	24.16 ug/L	100
33) Tetrahydrofuran	10.47	72	19444	27.38 ug/L #	86
34) 1,2-Dichloroethane	10.89	62	436680	23.56 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	536637	23.28 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	693555	26.45 ug/L	98
38) 1,1-Dichloropropene	11.25	75	494669	25.83 ug/L	97
39) Carbon Tetrachloride	11.49	117	474248	23.94 ug/L	99
40) Benzene	11.54	78	1340156	26.38 ug/L	98
41) Dibromomethane	12.26	93	188513	25.57 ug/L	98
42) 1,2-Dichloropropane	12.30	63	366089	25.49 ug/L	98

(#) = qualifier out of range (m) = manual integration
03131203.D 031212.M Wed Mar 14 11:18:12 2012

3/14/12

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) Trichloroethene	12.35	95	374424	25.10 ug/L	98
44) Bromodichloromethane	12.42	83	480653	24.94 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	128974	27.92 ug/L	98
46) cis-1,3-Dichloropropene	13.25	75	554756	29.94 ug/L	96
47) 4-Methyl-2-pentanone (MIBK	13.38	43	228745	28.72 ug/L	98
48) trans-1,3-Dichloropropene	13.80	75	417765	25.83 ug/L	98
49) 1,1,2-Trichloroethane	14.03	97	228793	25.88 ug/L	98
51) Toluene	14.28	92	841755	26.78 ug/L	100
53) 1,3-Dichloropropane	14.34	76	400338	24.63 ug/L	100
54) 2-Hexanone	14.53	43	212344	34.45 ug/L	99
55) Dibromochloromethane	14.72	129	286848	24.57 ug/L	99
56) 1,2-Dibromoethane	15.06	107	235780	25.21 ug/L	99
57) Tetrachloroethene	15.27	164	278563	24.59 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.08	131	315370	24.81 ug/L	99
59) Chlorobenzene	16.19	112	931494	24.60 ug/L	98
60) Ethylbenzene	16.44	91	1604550	26.95 ug/L	99
61) m,p-Xylene	16.70	106	626560	26.69 ug/L	96
62) Styrene	17.16	104	961808	26.74 ug/L	99
63) o-Xylene	17.26	106	605686	26.03 ug/L	99
66) Bromoform	16.89	173	162214	26.61 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	235453	25.92 ug/L	99
68) 1,2,3-Trichloropropane	17.45	110	65758	26.60 ug/L	98
69) trans-1,4-Dichloro-2-buten	17.47	53	70261	22.71 ug/L	98
70) Isopropylbenzene	17.76	105	1535912	31.08 ug/L	99
71) Bromobenzene	18.13	156	347890	27.55 ug/L	95
72) n-Propylbenzene	18.37	91	1824505	28.81 ug/L	99
73) 2-Chlorotoluene	18.51	91	1074996	25.92 ug/L	98
74) 4-Chlorotoluene	18.62	91	1095444	26.29 ug/L	98
75) 1,3,5-Trimethylbenzene	18.77	105	1242795	27.06 ug/L	99
76) tert-Butylbenzene	19.15	119	1006469	28.87 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	1257245	26.95 ug/L	98
78) sec-Butylbenzene	19.42	105	1554827	27.21 ug/L	99
79) 1,3-Dichlorobenzene	19.53	146	661286	26.40 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	634703	25.36 ug/L	100
81) 4-Isopropyltoluene	19.65	119	1241707	26.68 ug/L	99
82) 1,2-Dichlorobenzene	20.06	146	569624	27.19 ug/L	99
83) n-Butylbenzene	20.15	91	1208872	27.71 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	34111	28.51 ug/L	92
85) 1,2,4-Trichlorobenzene	22.37	180	436051	31.72 ug/L	98
86) Naphthalene	22.72	128	593440	32.22 ug/L	99
87) Hexachlorobutadiene	22.76	225	193977	27.68 ug/L	100
88) 1,2,3-Trichlorobenzene	22.99	180	339424	31.92 ug/L	100

M

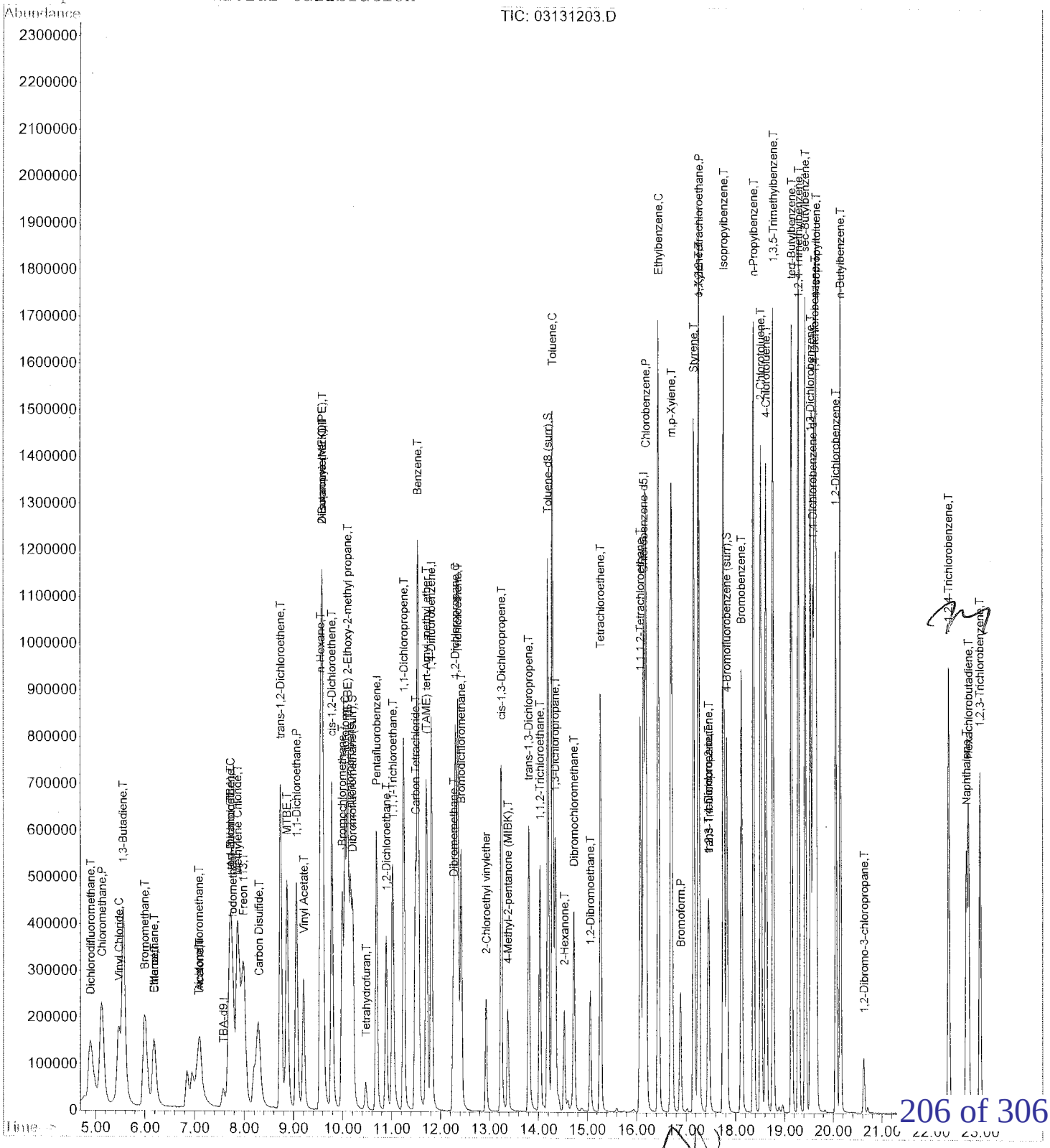
M

(#) = qualifier out of range (m) = manual integration
03131203.D 031212.M Wed Mar 14 11:18:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

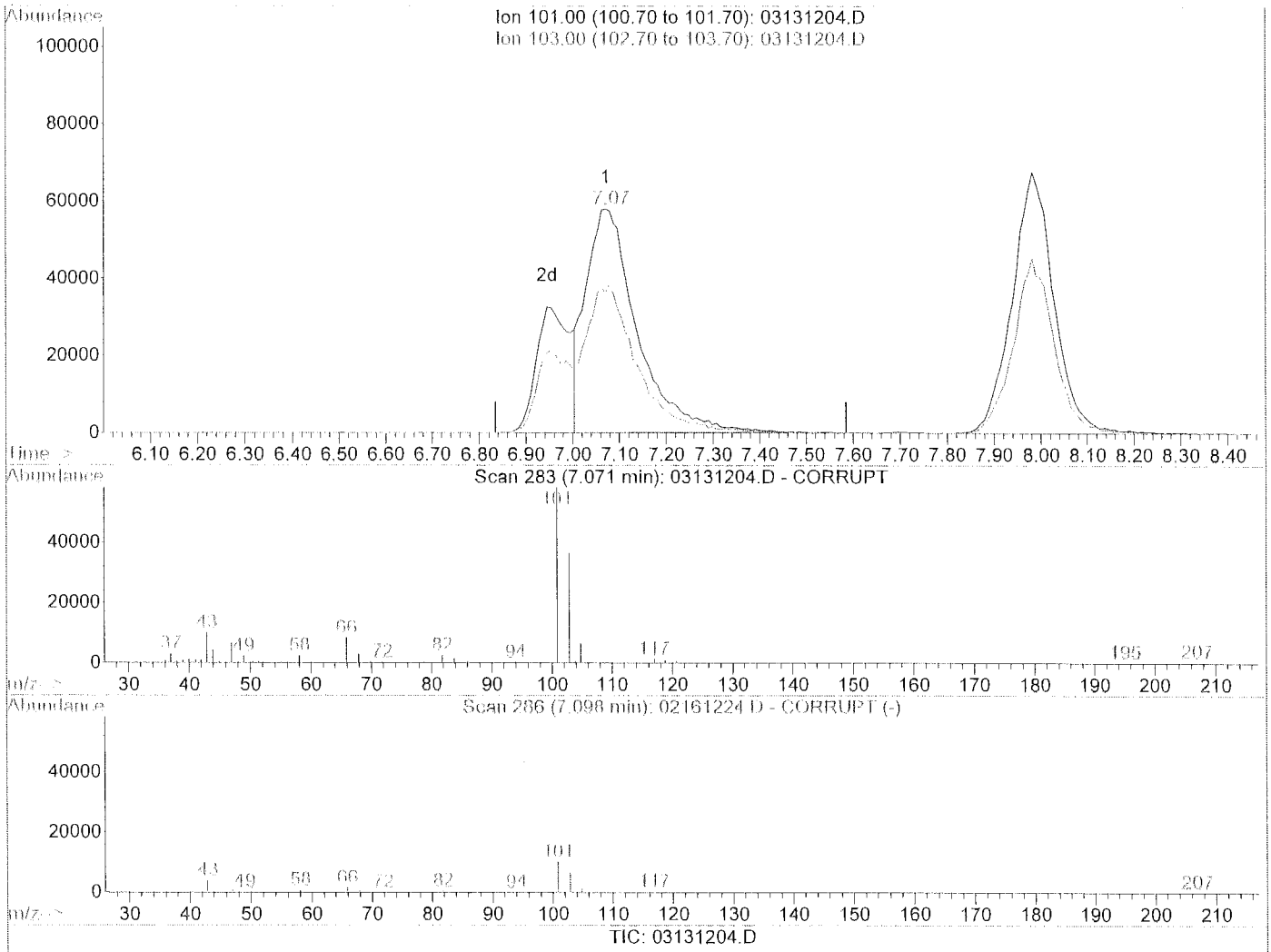
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 21.04ug/L

response 440231

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.18
0.00	0.00	0.00
0.00	0.00	0.00

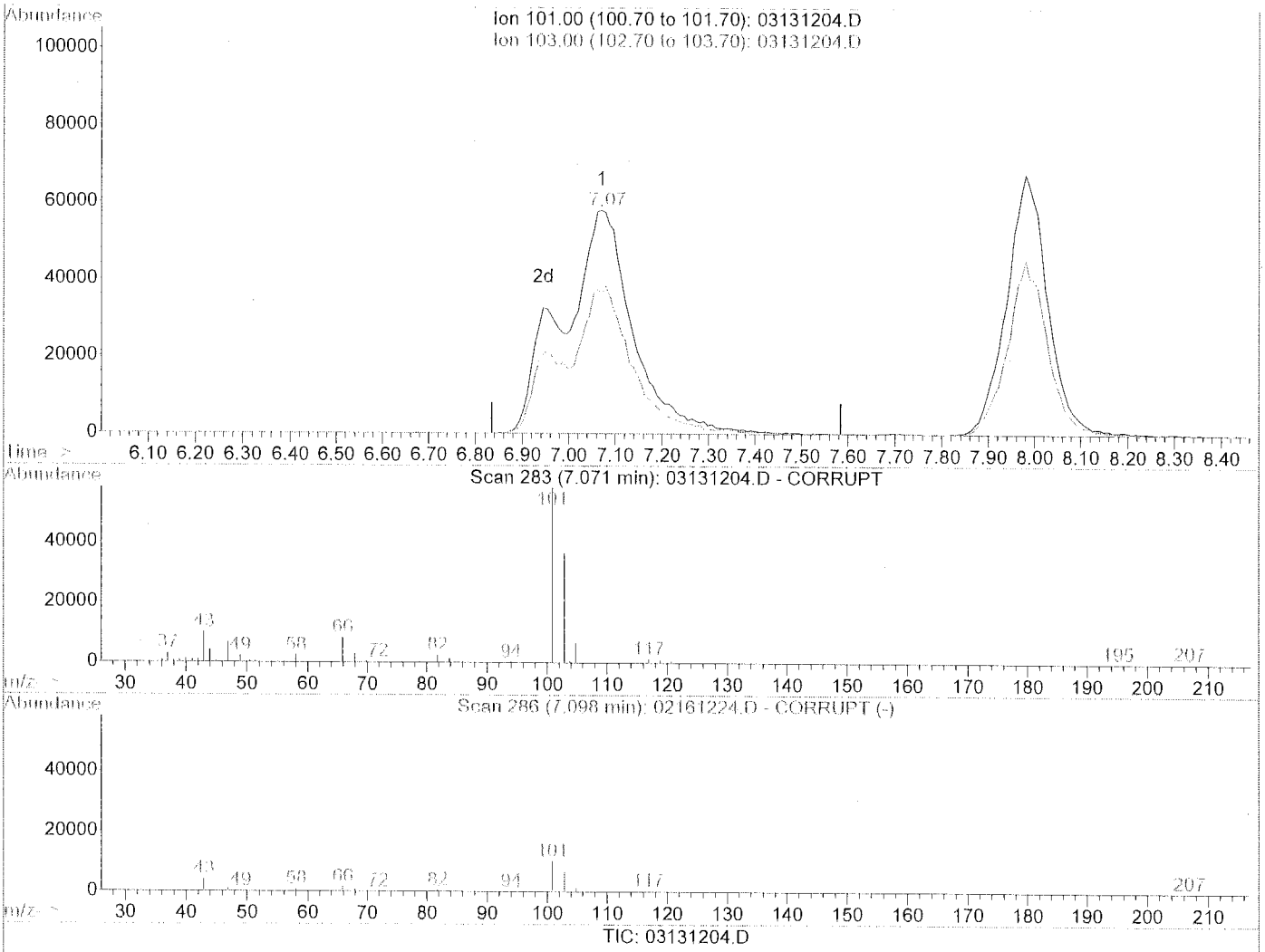
B SP
3/14/12

03131204.D 031212.M Wed Mar 14 11:18:42 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 28.97ug/L m

response 606043

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.41
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131204.D 031212.M Wed Mar 14 11:18:46 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	98671	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	559959	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	903159	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	772286	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	353978	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	313869	23.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.04%	
50) Toluene-d8 (surr)	14.19	98	1012401	25.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	373341	23.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.44%	
Target Compounds					Qvalue
2) Ethanol	6.15	45	380	6.16 ug/L #	19
3) tert-Butanol (TBA)	7.70	59	26854	31.19 ug/L #	81
5) Dichlorodifluoromethane	4.90	85	649532	25.18 ug/L	99
6) Chloromethane	5.12	50	849182	28.67 ug/L	99
7) Vinyl Chloride	5.47	62	674006	26.99 ug/L	99
8) 1,3-Butadiene	5.56	54	526912	35.66 ug/L	97
9) Bromomethane	5.99	94	469688	25.94 ug/L	100
10) Chloroethane	6.19	64	383373	26.11 ug/L	99
12) Trichlorofluoromethane	7.07	101	606043m	28.97 ug/L	
13) Acetone	7.10	43	107183	23.50 ug/L	97
15) Iodomethane	7.76	142	716188	27.67 ug/L	98
16) 1,1-Dichloroethene	7.71	96	412979	25.32 ug/L	96
17) Methylene Chloride	7.87	84	448468	22.50 ug/L	98
18) Freon 113	7.98	101	420623	23.19 ug/L	98
19) Carbon Disulfide	8.28	76	1196368	26.74 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	490421	26.31 ug/L	98
21) MTBE	8.87	73	735531	26.20 ug/L	100
22) 1,1-Dichloroethane	9.05	63	815863	24.28 ug/L	99
23) Vinyl Acetate	9.19	43	737671	30.82 ug/L	100
24) n-Hexane	9.55	86	79899	24.99 ug/L #	93
25) 2-Butanone (MEK)	9.59	72	26206	25.52 ug/L #	44
26) Diisopropylether (DIPE)	9.59	45	1545254	24.89 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	456918	27.00 ug/L	98
28) Bromochloromethane	9.99	128	179408	26.10 ug/L	96
29) Chloroform	10.05	83	698861	23.64 ug/L	99
30) 2,2-Dichloropropane	10.16	77	451452	25.71 ug/L	98
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	957461	24.85 ug/L	99
33) Tetrahydrofuran	10.48	72	21532	30.13 ug/L #	77
34) 1,2-Dichloroethane	10.88	62	454044	24.35 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	564137	24.32 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	715313	27.11 ug/L	98
38) 1,1-Dichloropropene	11.25	75	527535	26.94 ug/L	98
39) Carbon Tetrachloride	11.49	117	505727	24.96 ug/L	98
40) Benzene	11.54	78	1424318	27.41 ug/L	98
41) Dibromomethane	12.26	93	194597	25.81 ug/L	98
42) 1,2-Dichloropropane	12.30	63	381820	26.00 ug/L	97

(#) = qualifier out of range (m) = manual integration

3/14/12

4/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

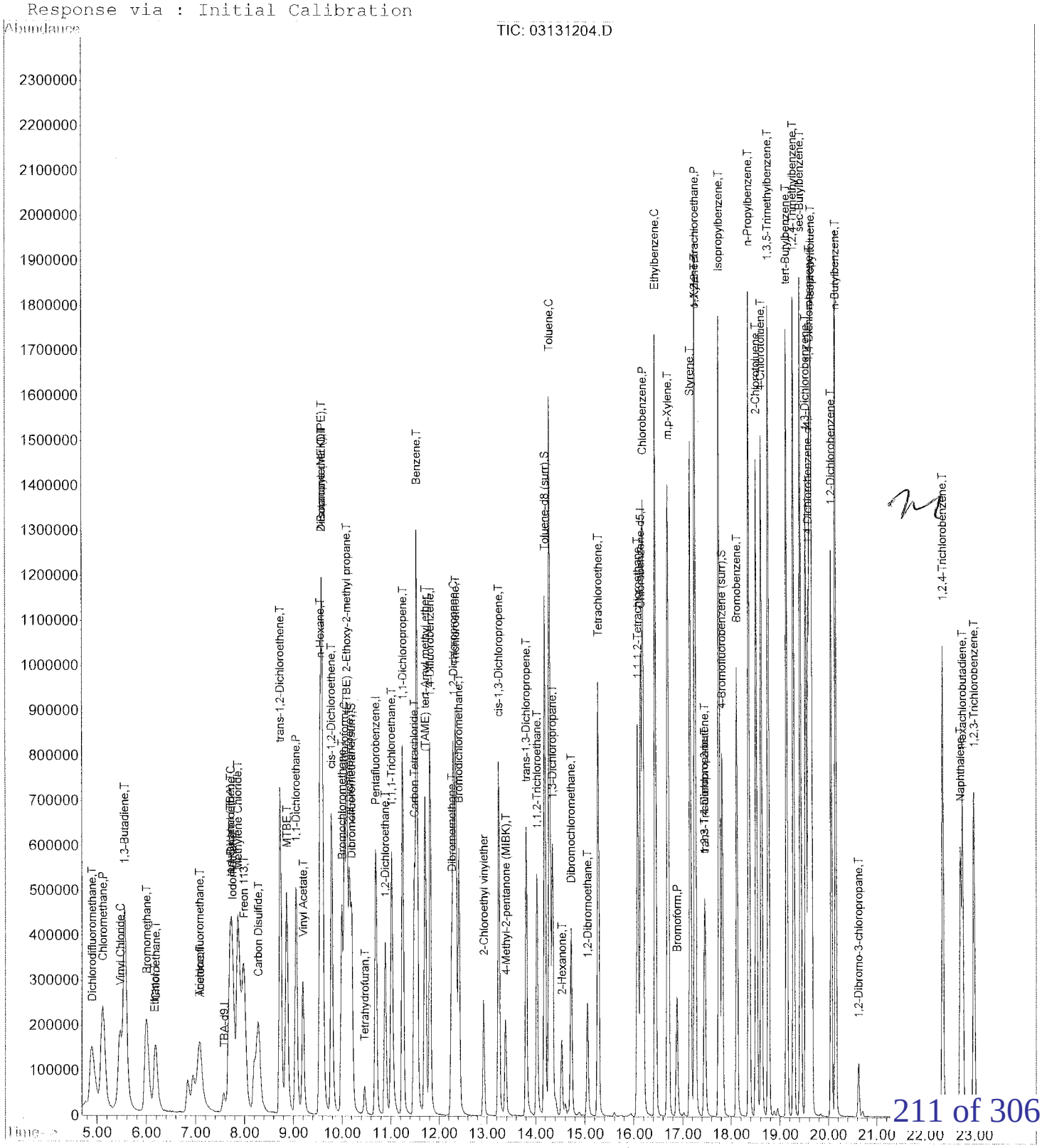
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	393104	25.76 ug/L	98
44)	Bromodichloromethane	12.41	83	484257	24.57 ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	132235	27.99 ug/L	100
46)	cis-1,3-Dichloropropene	13.24	75	552964	29.18 ug/L	96
47)	4-Methyl-2-pentanone (MIBK	13.37	43	231144	28.38 ug/L	98
48)	trans-1,3-Dichloropropene	13.80	75	431730	26.10 ug/L	98
49)	1,1,2-Trichloroethane	14.02	97	237766	26.30 ug/L	96
51)	Toluene	14.28	92	889695	27.68 ug/L	98
53)	1,3-Dichloropropane	14.34	76	411020	25.23 ug/L	99
54)	2-Hexanone	14.53	43	172841	27.98 ug/L	98
55)	Dibromochloromethane	14.71	129	296275	25.32 ug/L	99
56)	1,2-Dibromoethane	15.05	107	239826	25.58 ug/L	100
57)	Tetrachloroethene	15.27	164	293633	25.86 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	327187	25.68 ug/L	98
59)	Chlorobenzene	16.19	112	964673	25.42 ug/L	98
60)	Ethylbenzene	16.44	91	1651322	27.68 ug/L	100
61)	m,p-Xylene	16.70	106	651245	27.68 ug/L	97
62)	Styrene	17.16	104	981969	27.23 ug/L	98
63)	o-Xylene	17.26	106	630024	27.01 ug/L	97
66)	Bromoform	16.88	173	171321	27.31 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	240246	25.71 ug/L	98
68)	1,2,3-Trichloropropane	17.45	110	66186	26.02 ug/L	94
69)	trans-1,4-Dichloro-2-buten	17.46	53	71329	22.40 ug/L	94
70)	Isopropylbenzene	17.76	105	1605320	31.57 ug/L	99
71)	Bromobenzene	18.12	156	357734	27.53 ug/L	95
72)	n-Propylbenzene	18.36	91	1935680	29.70 ug/L	99
73)	2-Chlorotoluene	18.52	91	1117513	26.19 ug/L	98
74)	4-Chlorotoluene	18.62	91	1139296	26.57 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	1300623	27.52 ug/L	99
76)	tert-Butylbenzene	19.15	119	1065394	29.70 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1304504	27.18 ug/L	99
78)	sec-Butylbenzene	19.43	105	1637257	27.85 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	681116	26.42 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	667983	25.94 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1285725	26.84 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	585664	27.17 ug/L	100
83)	n-Butylbenzene	20.15	91	1286238	28.66 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.62	75	37270	30.27 ug/L	96
85)	1,2,4-Trichlorobenzene	22.36	180	456284	32.26 ug/L	98
86)	Naphthalene	22.71	128	623271	32.88 ug/L	99
87)	Hexachlorobutadiene	22.75	225	205501	28.50 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	352871	32.25 ug/L	98

(#) = qualifier out of range (m) = manual integration
03131204.D 031212.M Wed Mar 14 11:19:10 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

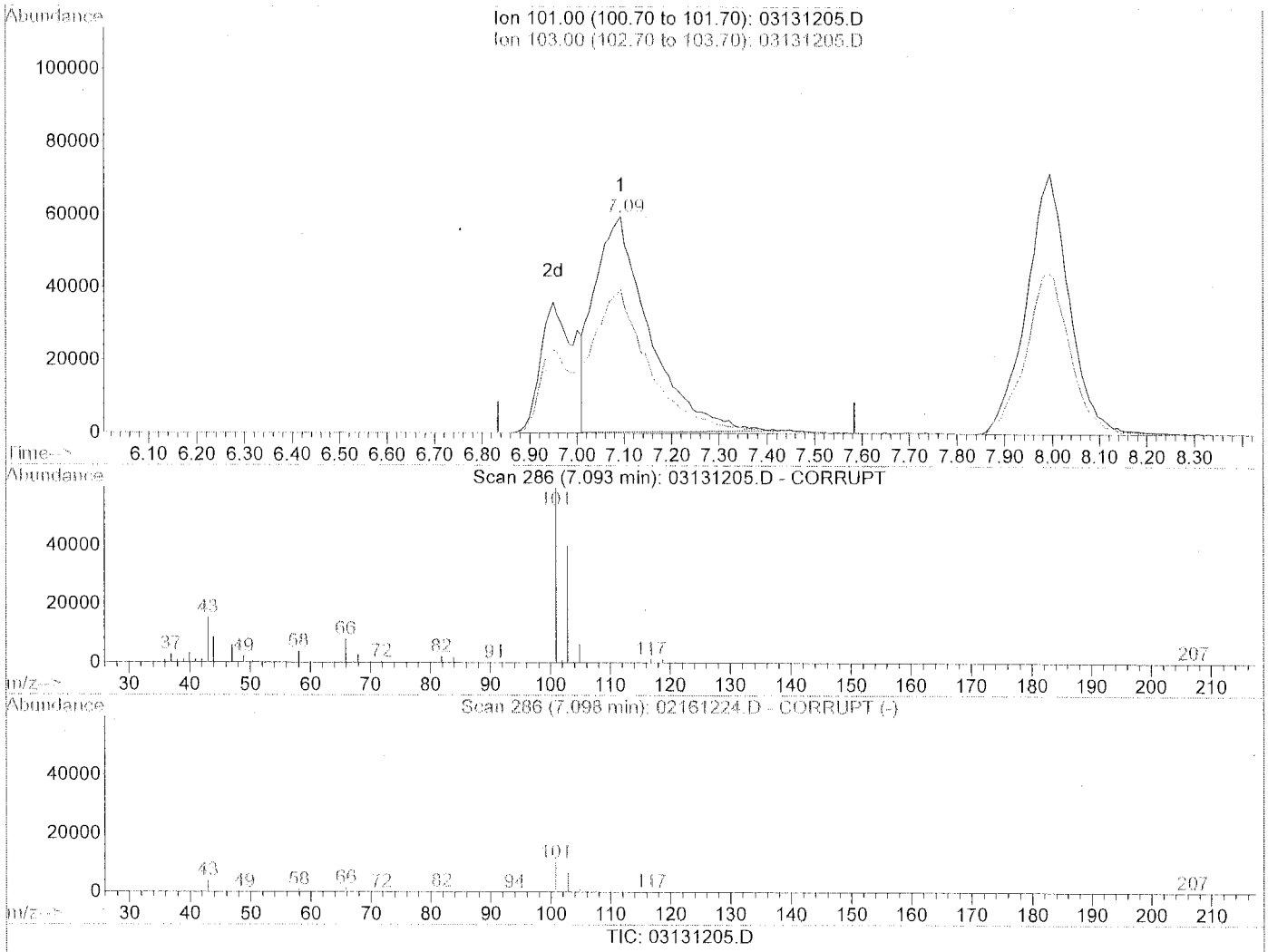
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.09min 22.43ug/L

response 479478

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.61
0.00	0.00	0.00
0.00	0.00	0.00

B SP
3/14/12

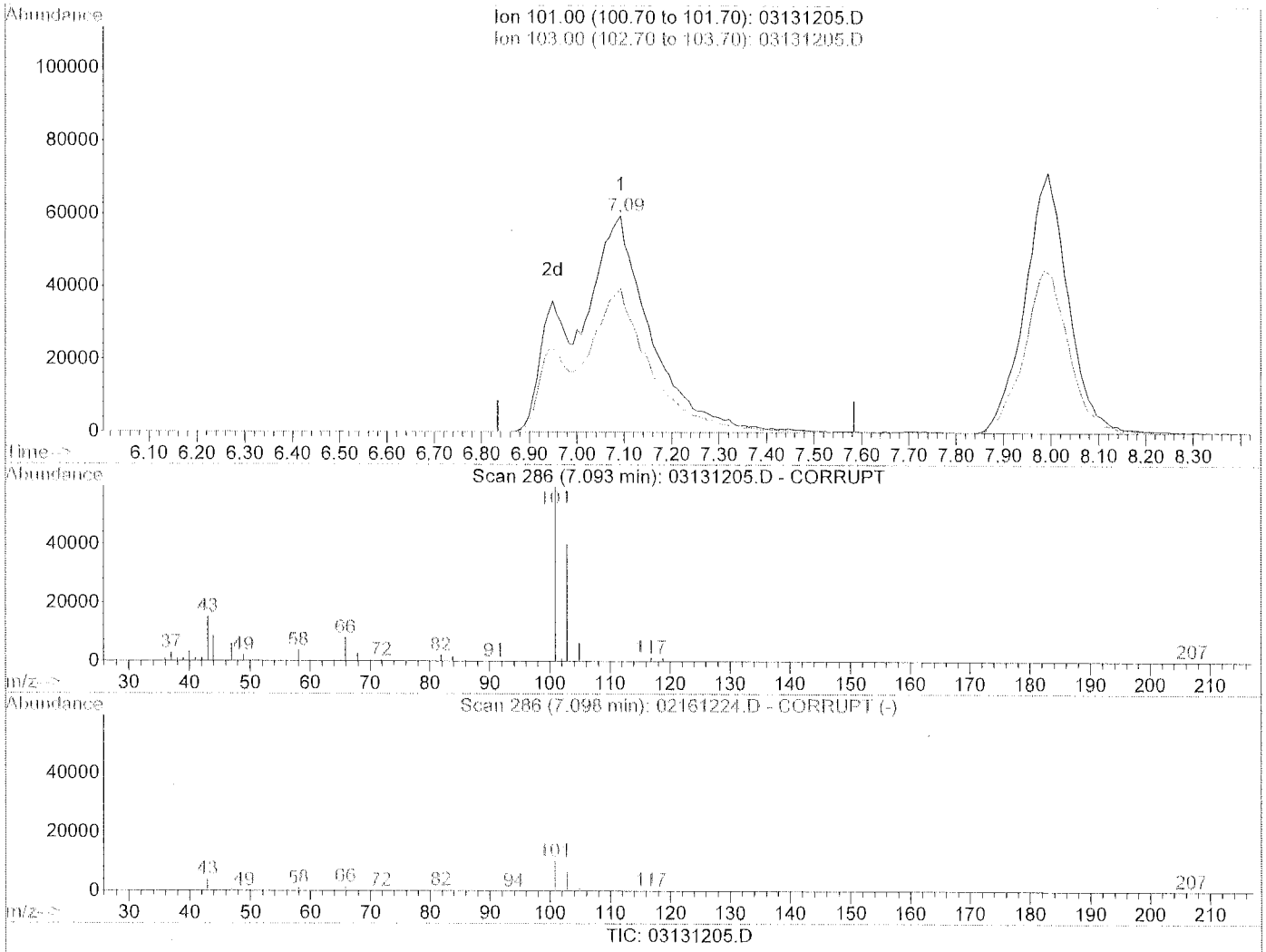
M 4/14/12

03131205.D 031212.M Wed Mar 14 11:19:36 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.09min 31.32ug/L m

response 669644

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.91
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131205.D 031212.M Wed Mar 14 11:19:54 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	90071	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	572257	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	925203	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	780597	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	356505	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	319871	23.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.76%	
50) Toluene-d8 (surr)	14.19	98	1028282	24.83 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.32%	
64) 4-Bromofluorobenzene (surr	17.82	95	376261	23.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.16%	
Target Compounds					Qvalue
2) Ethanol	6.33	45	295	5.24 ug/L	87
3) tert-Butanol (TBA)	7.72	59	29860	37.99 ug/L #	80
5) Dichlorodifluoromethane	4.90	85	684995	25.98 ug/L	99
6) Chloromethane	5.14	50	870153	28.75 ug/L	98
7) Vinyl Chloride	5.48	62	726745	28.47 ug/L	100
8) 1,3-Butadiene	5.57	54	573458	37.97 ug/L	97
9) Bromomethane	6.01	94	478950	25.88 ug/L	100
10) Chloroethane	6.19	64	410090	27.33 ug/L	97
12) Trichlorofluoromethane	7.09	101	669644m	31.32 ug/L	
13) Acetone	7.09	43	62817	13.48 ug/L	96
15) Iodomethane	7.78	142	734383	27.76 ug/L	98
16) 1,1-Dichloroethene	7.72	96	446655	26.79 ug/L	96
17) Methylene Chloride	7.86	84	452937	22.24 ug/L	98
18) Freon 113	7.99	101	454021	24.49 ug/L	99
19) Carbon Disulfide	8.28	76	1263467	27.64 ug/L	98
20) trans-1,2-Dichloroethene	8.74	96	501233	26.32 ug/L	97
21) MTBE	8.86	73	693993	24.19 ug/L	100
22) 1,1-Dichloroethane	9.06	63	824406	24.01 ug/L	100
23) Vinyl Acetate	9.20	43	707206	28.91 ug/L	99
24) n-Hexane	9.55	86	80897	24.76 ug/L	99
25) 2-Butanone (MEK)	9.59	72	20062	19.12 ug/L #	73
26) Diisopropylether (DIPE)	9.59	45	1549360	24.42 ug/L	96
27) cis-1,2-Dichloroethene	9.78	96	467910	27.05 ug/L	98
28) Bromochloromethane	9.99	128	184842	26.31 ug/L	93
29) Chloroform	10.05	83	733280	24.28 ug/L	99
30) 2,2-Dichloropropane	10.16	77	479939	26.74 ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	957327	24.32 ug/L	99
33) Tetrahydrofuran	10.46	72	18255	24.99 ug/L	93
34) 1,2-Dichloroethane	10.89	62	448588	23.54 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	594992	25.10 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	698038	25.89 ug/L	97
38) 1,1-Dichloropropene	11.25	75	566557	28.24 ug/L	98
39) Carbon Tetrachloride	11.49	117	544080	26.22 ug/L	99
40) Benzene	11.54	78	1474168	27.70 ug/L	97
41) Dibromomethane	12.27	93	189728	24.56 ug/L	97
42) 1,2-Dichloropropane	12.30	63	390466	25.95 ug/L	97

(#) = qualifier out of range (m) = manual integration
03131205.D 031212.M Wed Mar 14 11:20:18 2012

3/14/12

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

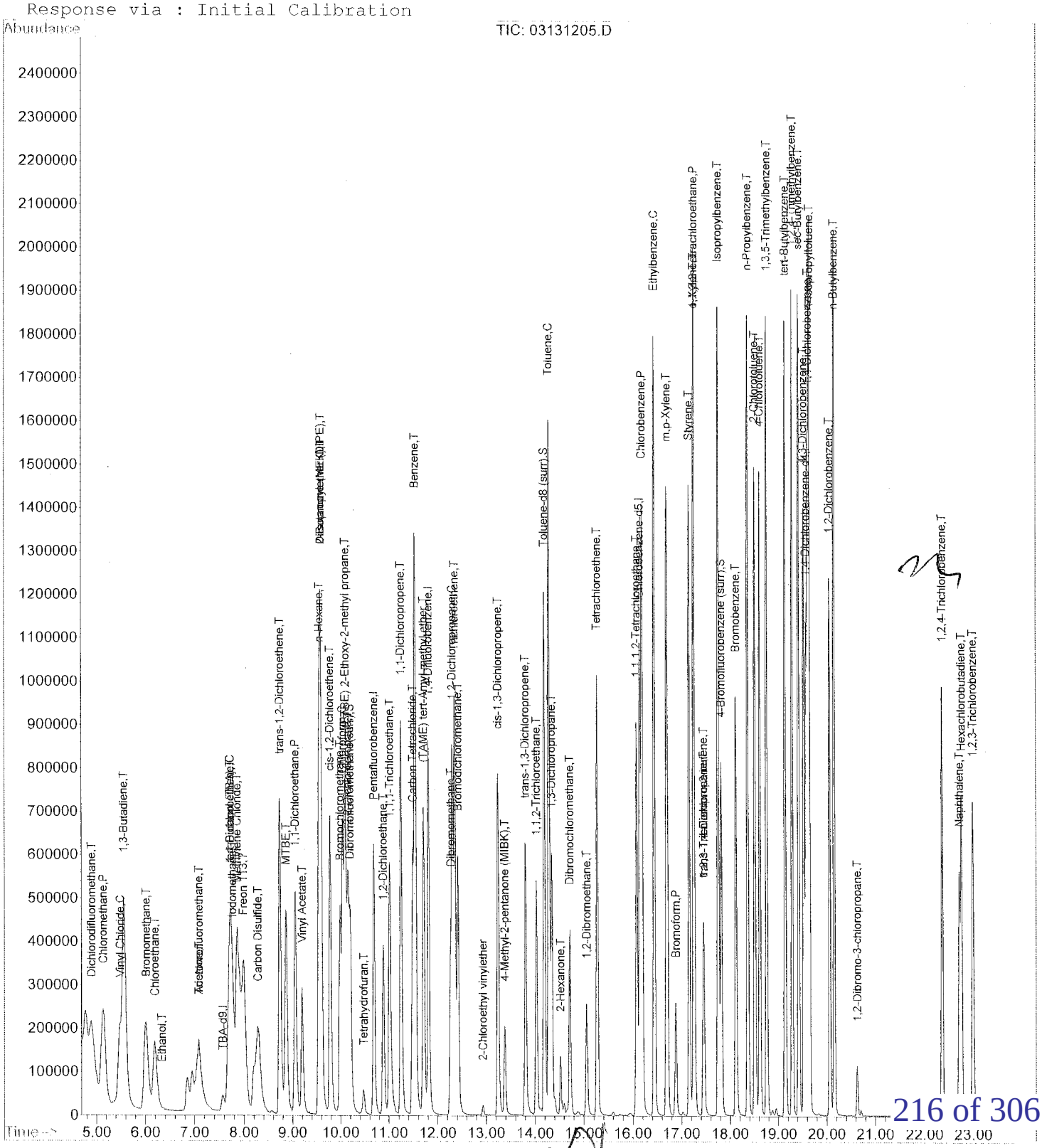
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) Trichloroethene	12.35	95	421742	26.98 ug/L	98
44) Bromodichloromethane	12.42	83	502387	24.88 ug/L	100
45) 2-Chloroethyl vinylether	12.93	63	11111	3.53 ug/L	94
46) cis-1,3-Dichloropropene	13.25	75	562891	29.00 ug/L	96
47) 4-Methyl-2-pentanone (MIBK	13.38	43	212673	25.49 ug/L	98
48) trans-1,3-Dichloropropene	13.80	75	431714	25.48 ug/L	96
49) 1,1,2-Trichloroethane	14.03	97	234546	25.33 ug/L	96
51) Toluene	14.29	92	921612	27.99 ug/L	99
53) 1,3-Dichloropropane	14.35	76	409605	24.88 ug/L	98
54) 2-Hexanone	14.53	43	135292	21.66 ug/L	97
55) Dibromochloromethane	14.72	129	294667	24.92 ug/L	100
56) 1,2-Dibromoethane	15.06	107	239266	25.25 ug/L	100
57) Tetrachloroethene	15.28	164	321874	28.05 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.08	131	334286	25.95 ug/L	98
59) Chlorobenzene	16.19	112	995594	25.96 ug/L	99
60) Ethylbenzene	16.44	91	1720318	28.53 ug/L	99
61) m,p-Xylene	16.70	106	675262	28.39 ug/L	96
62) Styrene	17.16	104	960153	26.35 ug/L	98
63) o-Xylene	17.26	106	639895	27.14 ug/L	98
66) Bromoform	16.89	173	165629	26.21 ug/L	100
67) 1,1,2,2-Tetrachloroethane	17.25	83	233810	24.84 ug/L	100
68) 1,2,3-Trichloropropane	17.45	110	64739	25.27 ug/L	97
69) trans-1,4-Dichloro-2-buten	17.47	53	68863	21.48 ug/L	97
70) Isopropylbenzene	17.75	105	1656520	32.34 ug/L	99
71) Bromobenzene	18.12	156	361082	27.59 ug/L	96
72) n-Propylbenzene	18.37	91	1982282	30.20 ug/L	98
73) 2-Chlorotoluene	18.51	91	1143809	26.62 ug/L	98
74) 4-Chlorotoluene	18.62	91	1167401	27.04 ug/L	98
75) 1,3,5-Trimethylbenzene	18.77	105	1326016	27.86 ug/L	99
76) tert-Butylbenzene	19.14	119	1086543	30.07 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	1288484	26.66 ug/L	98
78) sec-Butylbenzene	19.42	105	1716009	28.98 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	692869	26.69 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	669174	25.80 ug/L	99
81) 4-Isopropyltoluene	19.65	119	1336097	27.70 ug/L	99
82) 1,2-Dichlorobenzene	20.05	146	593535	27.34 ug/L	99
83) n-Butylbenzene	20.15	91	1328385	29.38 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	32757	26.42 ug/L	91
85) 1,2,4-Trichlorobenzene	22.36	180	445588	31.28 ug/L	98
86) Naphthalene	22.72	128	588416	30.82 ug/L	99
87) Hexachlorobutadiene	22.76	225	213924	29.46 ug/L	100
88) 1,2,3-Trichlorobenzene	22.99	180	337395	30.62 ug/L	100

(#) = qualifier out of range (m) = manual integration
03131205.D 031212.M Wed Mar 14 11:20:19 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

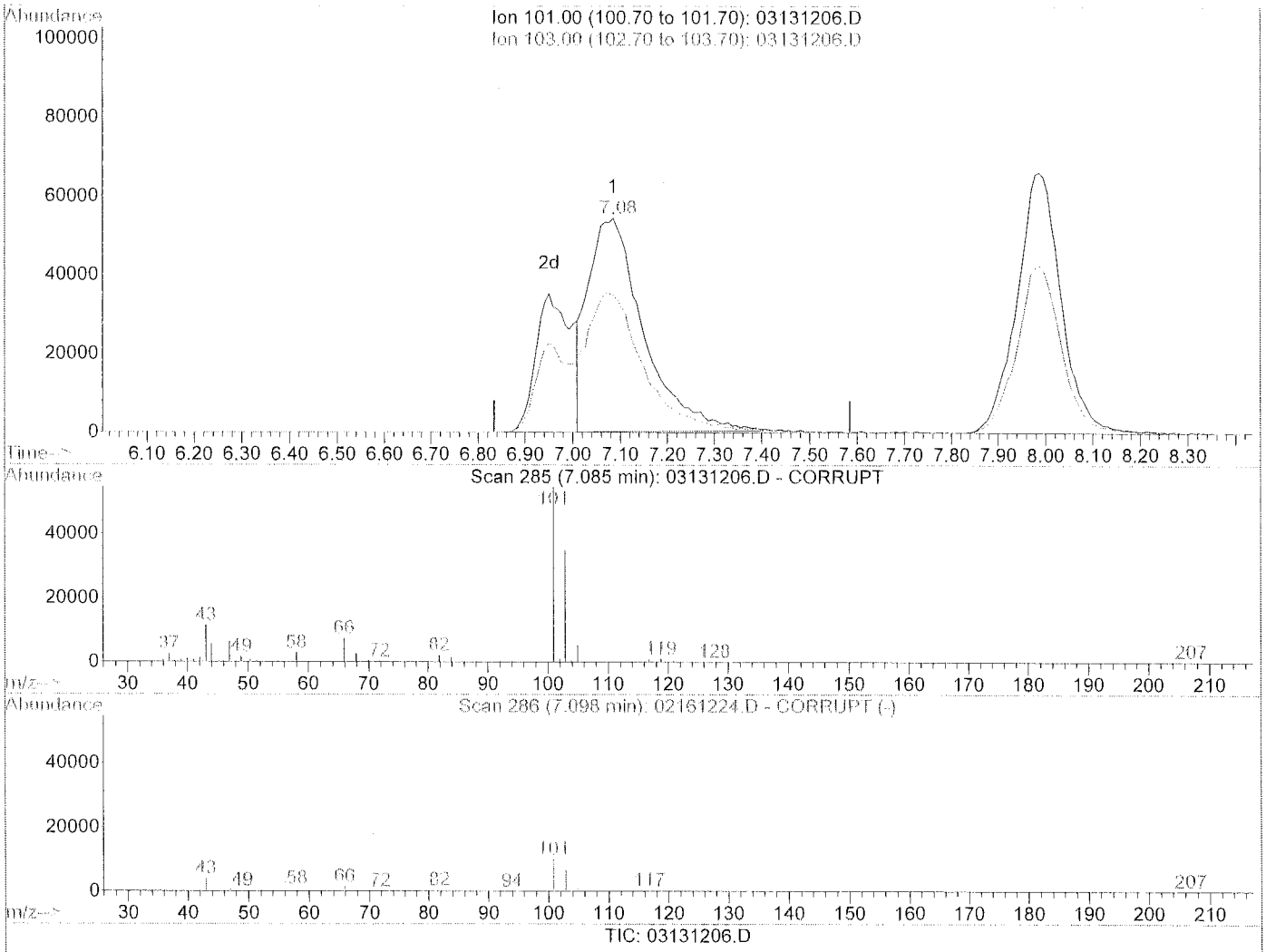
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.08min 20.73ug/L

response 442289

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.86
0.00	0.00	0.00
0.00	0.00	0.00

B SP
3/14/12
M

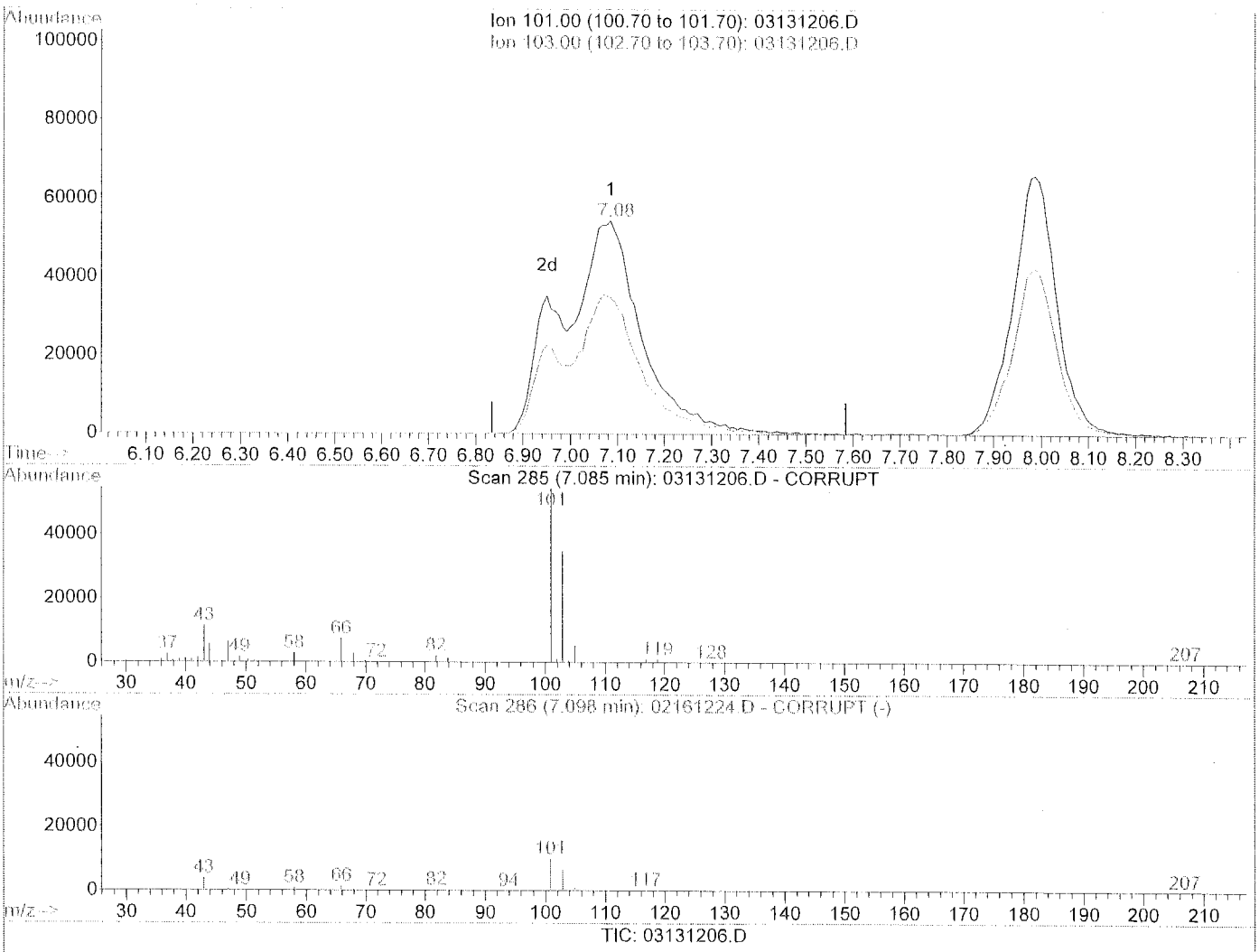
M 3/14/12

03131206.D 031212.M Wed Mar 14 11:20:59 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.08min 29.59ug/L m

response 631226

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.01
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131206.D 031212.M Wed Mar 14 11:21:04 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93513	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	570944	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	918307	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	778839	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	360736	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	322329	23.43 ug/L	0.00
Spiked Amount 25.000			Recovery =	93.72%	
50) Toluene-d8 (surr)	14.19	98	1040765	25.32 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	384488	24.11 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.44%	
Target Compounds					Qvalue
2) Ethanol	6.19	45	840	14.37 ug/L #	49
3) tert-Butanol (TBA)	7.71	59	27371	33.55 ug/L #	80
5) Dichlorodifluoromethane	4.89	85	667232	25.37 ug/L	98
6) Chloromethane	5.13	50	835819	27.68 ug/L	98
7) Vinyl Chloride	5.48	62	691811	27.17 ug/L	100
8) 1,3-Butadiene	5.56	54	595689	39.54 ug/L	98
9) Bromomethane	6.00	94	464407	25.15 ug/L	100
10) Chloroethane	6.18	64	383071	25.58 ug/L	98
12) Trichlorofluoromethane	7.08	101	631226m	29.59 ug/L	
13) Acetone	7.11	43	69257	14.89 ug/L	99
15) Iodomethane	7.77	142	708104	26.83 ug/L	98
16) 1,1-Dichloroethene	7.71	96	428116	25.74 ug/L	96
17) Methylene Chloride	7.87	84	444468	21.87 ug/L	98
18) Freon 113	7.99	101	426475	23.06 ug/L	99
19) Carbon Disulfide	8.28	76	872885	19.14 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	486420	25.60 ug/L	98
21) MTBE	8.86	73	712573	24.89 ug/L	100
22) 1,1-Dichloroethane	9.06	63	804416	23.48 ug/L	100
23) Vinyl Acetate	9.20	43	712984	29.21 ug/L	100
24) n-Hexane	9.55	86	78601	24.11 ug/L	96
25) 2-Butanone (MEK)	9.59	72	21040	20.10 ug/L #	95
26) Diisopropylether (DIPE)	9.59	45	1552466	24.53 ug/L	95
27) cis-1,2-Dichloroethene	9.78	96	456647	26.46 ug/L	98
28) Bromochloromethane	9.99	128	184028	26.26 ug/L	93
29) Chloroform	10.05	83	708639	23.51 ug/L	99
30) 2,2-Dichloropropane	10.16	77	458834	25.63 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	953050	24.26 ug/L	99
33) Tetrahydrofuran	10.46	72	20073	27.55 ug/L #	82
34) 1,2-Dichloroethane	10.89	62	448522	23.59 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	575114	24.32 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	707126	26.28 ug/L	97
38) 1,1-Dichloropropene	11.25	75	542443	27.24 ug/L	99
39) Carbon Tetrachloride	11.49	117	506135	24.57 ug/L	99
40) Benzene	11.54	78	1419779	26.88 ug/L	96
41) Dibromomethane	12.26	93	196736	25.66 ug/L	98
42) 1,2-Dichloropropane	12.30	63	383039	25.65 ug/L	97

(#) = qualifier out of range (m) = manual integration
03131206.D 031212.M Wed Mar 14 11:21:10 2012

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	404836	26.10 ug/L	97
44)	Bromodichloromethane	12.42	83	486496	24.27 ug/L	99
45)	2-Chloroethyl vinylether	12.96	63	169	1.38 ug/L #	48
46)	cis-1,3-Dichloropropene	13.25	75	514897	26.73 ug/L	96
47)	4-Methyl-2-pentanone (MIBK	13.38	43	221467	26.74 ug/L	97
48)	trans-1,3-Dichloropropene	13.81	75	409045	24.34 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	239908	26.10 ug/L	96
51)	Toluene	14.29	92	895151	27.39 ug/L	98
53)	1,3-Dichloropropane	14.35	76	407810	24.83 ug/L	99
54)	2-Hexanone	14.53	43	146291	23.48 ug/L	100
55)	Dibromochloromethane	14.72	129	281962	23.90 ug/L	100
56)	1,2-Dibromoethane	15.06	107	244800	25.89 ug/L	99
57)	Tetrachloroethene	15.28	164	303808	26.53 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	324450	25.25 ug/L	99
59)	Chlorobenzene	16.19	112	953797	24.92 ug/L	98
60)	Ethylbenzene	16.44	91	1661541	27.61 ug/L	100
61)	m,p-Xylene	16.70	106	651714	27.46 ug/L	96
62)	Styrene	17.16	104	969492	26.66 ug/L	98
63)	o-Xylene	17.27	106	627282	26.67 ug/L	96
66)	Bromoform	16.89	173	155861	24.38 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	238964	25.09 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	65403	25.23 ug/L	96
69)	trans-1,4-Dichloro-2-buten	17.47	53	54828	16.90 ug/L	94
70)	Isopropylbenzene	17.75	105	1615791	31.18 ug/L	99
71)	Bromobenzene	18.12	156	356001	26.89 ug/L	96
72)	n-Propylbenzene	18.37	91	1910551	28.77 ug/L	99
73)	2-Chlorotoluene	18.51	91	1103399	25.37 ug/L	98
74)	4-Chlorotoluene	18.62	91	1112567	25.46 ug/L	97
75)	1,3,5-Trimethylbenzene	18.77	105	1288544	26.75 ug/L	99
76)	tert-Butylbenzene	19.14	119	1054233	28.84 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1271437	25.99 ug/L	99
78)	sec-Butylbenzene	19.43	105	1672126	27.91 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	673793	25.65 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	657768	25.06 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1291687	26.46 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	571947	26.03 ug/L	99
83)	n-Butylbenzene	20.15	91	1270491	27.77 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	34270	27.31 ug/L	91
85)	1,2,4-Trichlorobenzene	22.36	180	441717	30.65 ug/L	99
86)	Naphthalene	22.72	128	604209	31.28 ug/L	100
87)	Hexachlorobutadiene	22.76	225	204799	27.87 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	338098	30.32 ug/L	100

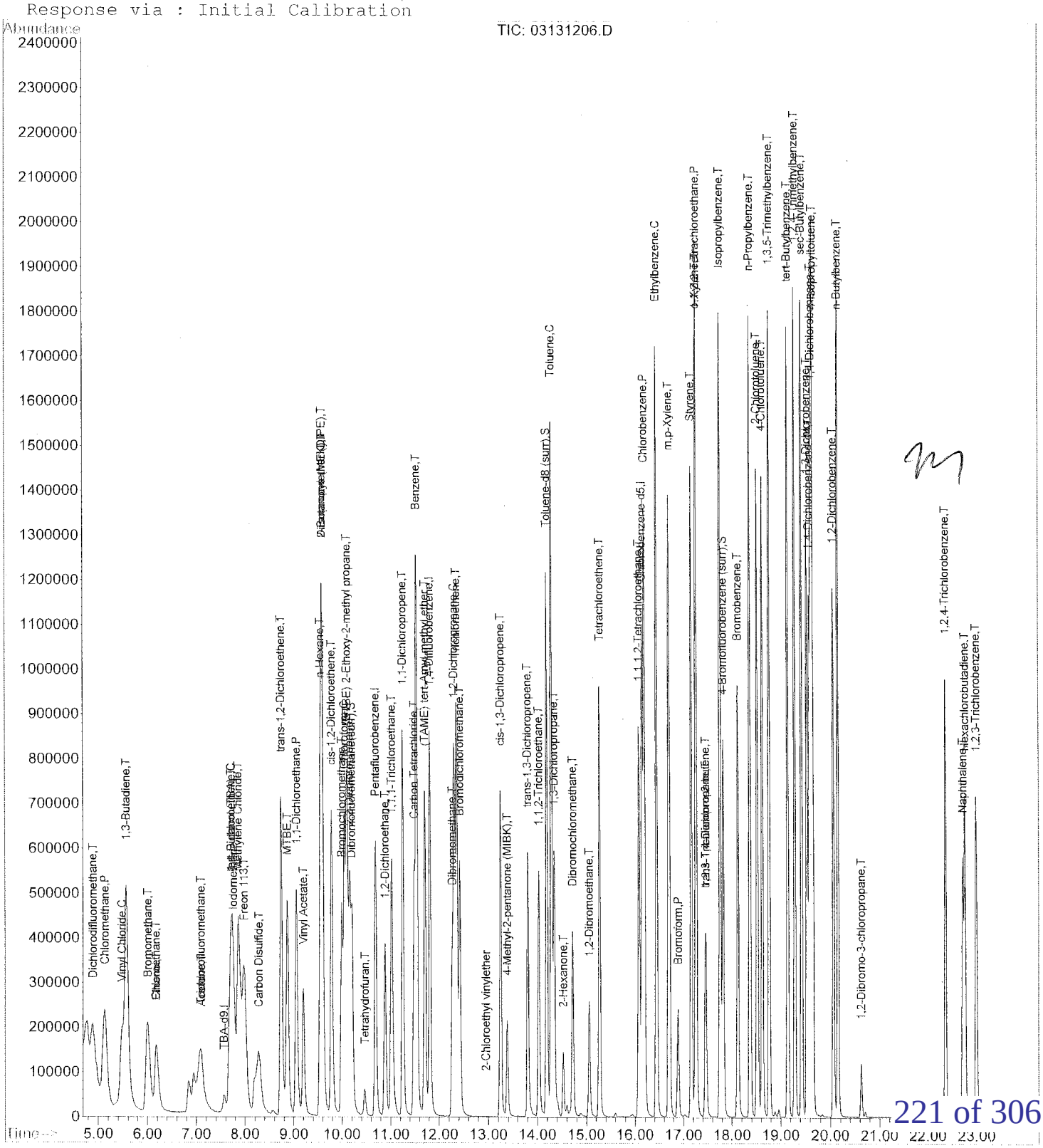
m

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131207.D Vial: 6
Acq On : 13 Mar 2012 12:52 pm Operator: JH
Sample : blank Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	91191	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	584233	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	909722	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	767631	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	342682	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	327671	23.27 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.08%	
50) Toluene-d8 (surr)	14.19	98	1015749	24.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.76%	
64) 4-Bromofluorobenzene (surr	17.82	95	365377	23.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.96%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	364	6.38 ug/L	98
5) Dichlorodifluoromethane	4.94	85	2594	0.10 ug/L	66
13) Acetone	7.11	43	4129	0.87 ug/L #	76
21) MTBE	8.88	73	4534	0.15 ug/L	99
23) Vinyl Acetate	9.21	43	5500	0.22 ug/L #	92
24) n-Hexane	9.56	86	2279	0.68 ug/L #	91
25) 2-Butanone (MEK)	9.59	72	232	0.22 ug/L #	1
28) Bromochloromethane	10.01	128	957	0.13 ug/L	80
33) Tetrahydrofuran	10.49	72	660	0.89 ug/L #	83
34) 1,2-Dichloroethane	10.88	62	2319	0.12 ug/L	95
36) (TAME) tert-Amyl methyl et	11.72	73	3114	0.11 ug/L	89
41) Dibromomethane	12.26	93	1695	0.22 ug/L #	85
47) 4-Methyl-2-pentanone (MIBK	13.38	43	2009	0.24 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	1782	0.34 ug/L	91
49) 1,1,2-Trichloroethane	14.03	97	1411	0.15 ug/L #	82
53) 1,3-Dichloropropane	14.35	76	2272	0.14 ug/L #	86
54) 2-Hexanone	14.53	43	1939	0.32 ug/L #	81
56) 1,2-Dibromoethane	15.05	107	1658	0.18 ug/L	82
57) Tetrachloroethene	15.26	164	1215	0.11 ug/L	90
61) m,p-Xylene	16.70	106	2272	0.10 ug/L #	76
62) Styrene	17.16	104	2326	0.17 ug/L	94
67) 1,1,2,2-Tetrachloroethane	17.25	83	2810	0.31 ug/L #	85
68) 1,2,3-Trichloropropane	17.46	110	417	0.17 ug/L #	87
69) trans-1,4-Dichloro-2-buten	17.47	53	540	0.18 ug/L #	43
70) Isopropylbenzene	17.76	105	5979	0.12 ug/L	97
71) Bromobenzene	18.12	156	1835	0.15 ug/L	94
72) n-Propylbenzene	18.37	91	11996	0.19 ug/L	99
73) 2-Chlorotoluene	18.52	91	4920	0.12 ug/L	93
74) 4-Chlorotoluene	18.62	91	5937	0.14 ug/L	99
75) 1,3,5-Trimethylbenzene	18.76	105	7116	0.16 ug/L	95
76) tert-Butylbenzene	19.14	119	8345	0.24 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	7425	0.16 ug/L	90
78) sec-Butylbenzene	19.43	105	26086	0.46 ug/L	97
79) 1,3-Dichlorobenzene	19.54	146	6438	0.26 ug/L	92
80) 1,4-Dichlorobenzene	19.62	146	7265	0.29 ug/L #	68
81) 4-Isopropyltoluene	19.65	119	19509	0.42 ug/L	99

(#) = qualifier out of range (m) = manual integration
03131207.D 031212.M Wed Mar 14 11:21:23 2012

DNV cleanout

3/14/12

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131207.D Vial: 6
Acq On : 13 Mar 2012 12:52 pm Operator: JH
Sample : blank Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

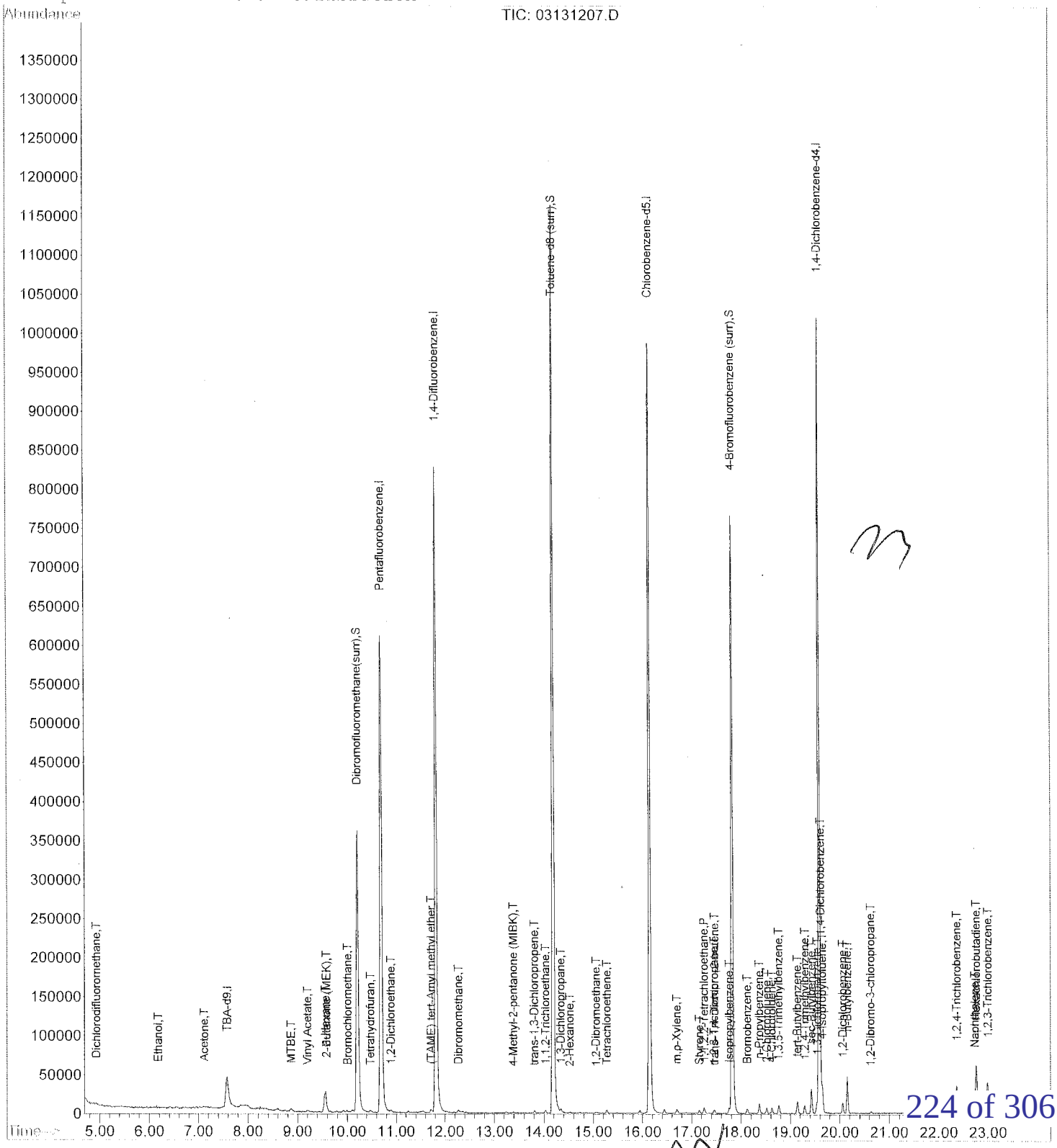
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) 1,2-Dichlorobenzene	20.06	146	6598	0.32 ug/L	95
83) n-Butylbenzene	20.15	91	28522	0.66 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.62	75	738	0.62 ug/L	86
85) 1,2,4-Trichlorobenzene	22.36	180	16232	1.19 ug/L	99
86) Naphthalene	22.72	128	24514	1.34 ug/L	100
87) Hexachlorobutadiene	22.76	225	16877	2.42 ug/L	96
88) 1,2,3-Trichlorobenzene	22.99	180	18571	1.75 ug/L	98

(#) = qualifier out of range (m) = manual integration
03131207.D 031212.M Wed Mar 14 11:21:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131207.D Vial: 6
Acq On : 13 Mar 2012 12:52 pm Operator: JH
Sample : blank Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params; RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131208.D Vial: 7
Acq On : 13 Mar 2012 1:23 pm Operator: JH
Sample : 12C0524-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93678	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	532592	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	832093	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	704426	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	315260	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	310178	24.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.68%	
50) Toluene-d8 (surr)	14.20	98	934058	25.07 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	334285	23.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.68%	

Target Compounds					Qvalue
2) Ethanol	6.26	45	157	2.68 ug/L	90
3) tert-Butanol (TBA)	7.76	59	115	0.14 ug/L #	80
13) Acetone	7.09	43	3369	0.78 ug/L #	71
17) Methylene Chloride	7.88	84	1859	0.10 ug/L #	50
24) n-Hexane	9.54	86	408	0.13 ug/L #	1
33) Tetrahydrofuran	10.47	72	130	0.19 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	10229	0.41 ug/L #	46
48) trans-1,3-Dichloropropene	13.82	75	336	0.25 ug/L #	43
62) Styrene	17.15	104	424	0.12 ug/L #	64
81) 4-Isopropyltoluene	19.66	119	4033	0.09 ug/L	98
83) n-Butylbenzene	20.15	91	5663	0.14 ug/L	93
85) 1,2,4-Trichlorobenzene	22.37	180	2758	0.22 ug/L #	93
86) Naphthalene	22.72	128	2816	0.17 ug/L #	74
87) Hexachlorobutadiene	22.77	225	7302	1.14 ug/L	94
88) 1,2,3-Trichlorobenzene	22.99	180	2490	0.26 ug/L	92

NT/MC

-B

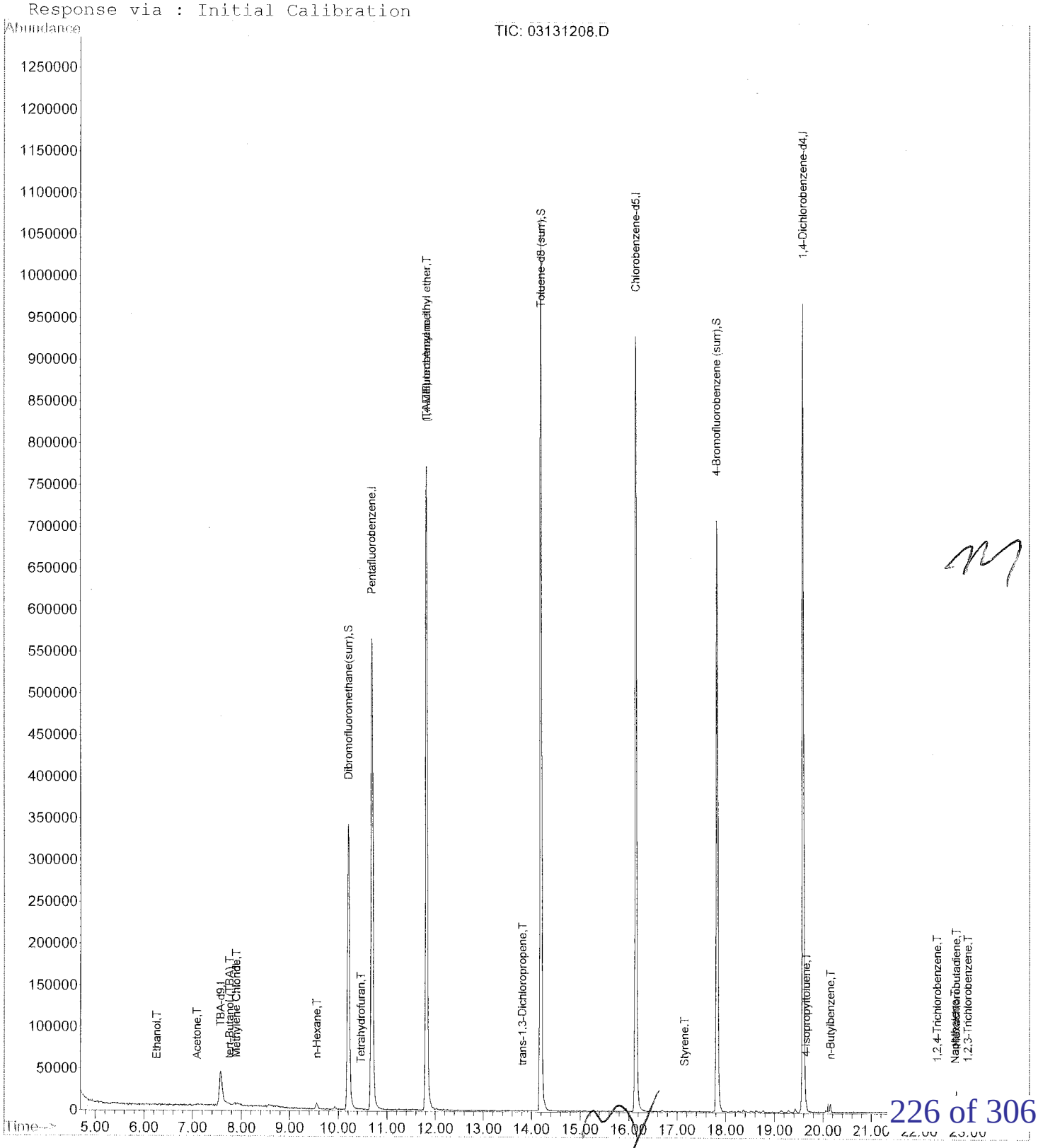
3/14/12

(#) = qualifier out of range (m) = manual integration
03131208.D 031212.M Wed Mar 14 11:21:47 2012

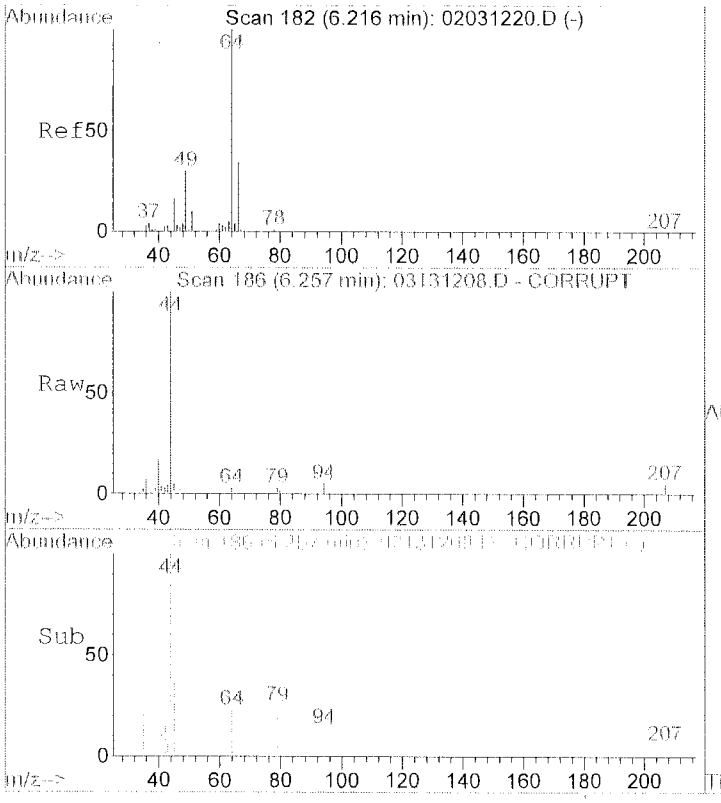
Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131208.D Vial: 7
Acq On : 13 Mar 2012 1:23 pm Operator: JH
Sample : 12C0524-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



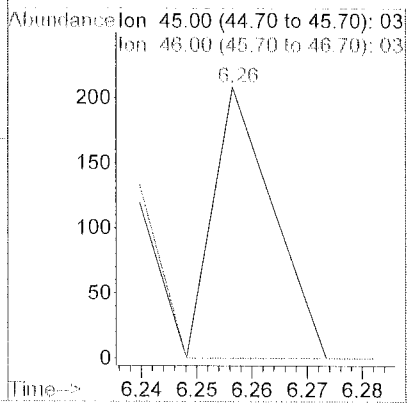
03131208.D 031212.M Wed Mar 14 11:21:48 2012 Page 2

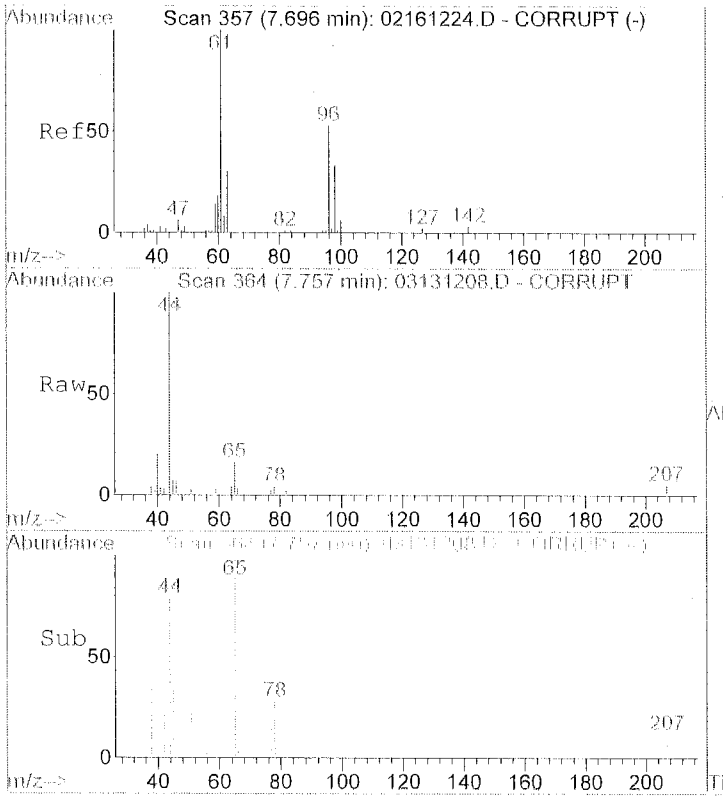


#2
Ethanol
Concen: 2.68 ug/L
RT: 6.26 min Scan# 186
Delta R.T. 0.07 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 45 Resp: 157

Ion	Ratio	Lower	Upper
45	100		
46	42.7	39.8	59.8

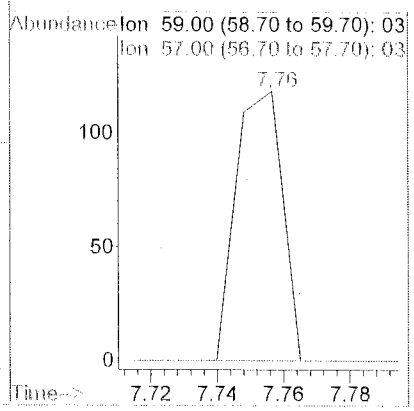


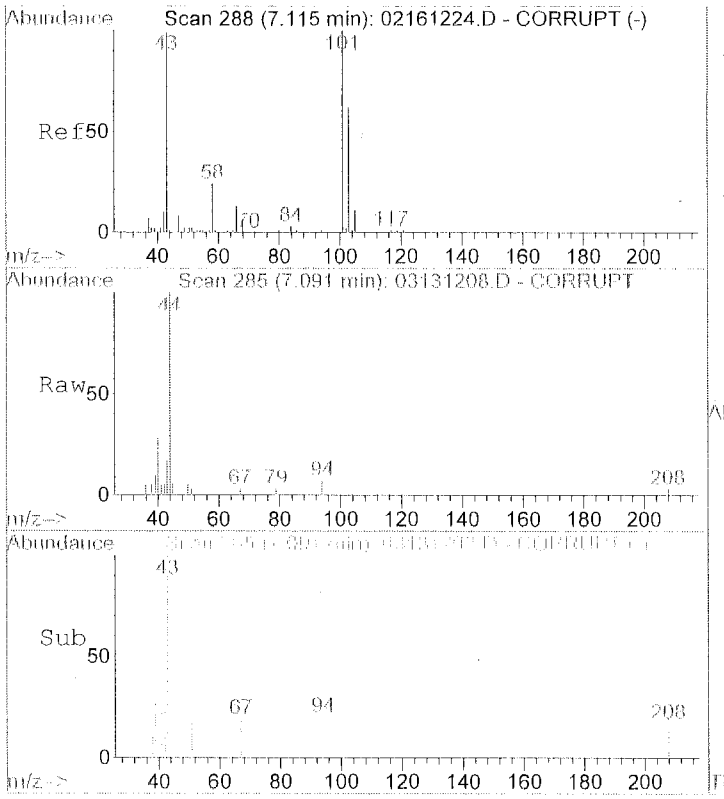


#3
tert-Butanol (TBA)
Concen: 0.14 ug/L
RT: 7.76 min Scan# 364
Delta R.T. 0.07 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 59 Resp: 115

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

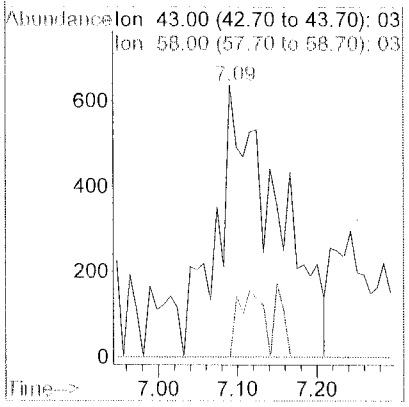


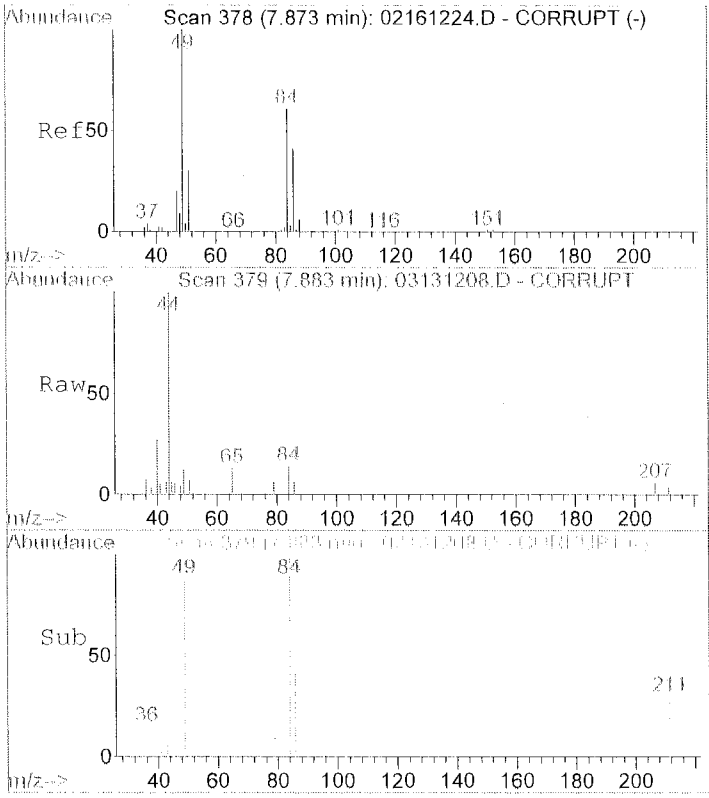


#13
Acetone
Concen: 0.78 ug/L
RT: 7.09 min Scan# 285
Delta R.T. -0.02 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 43 Resp: 3369

Ion	Ratio	Lower	Upper
43	100		
58	9.8	19.1	28.7#

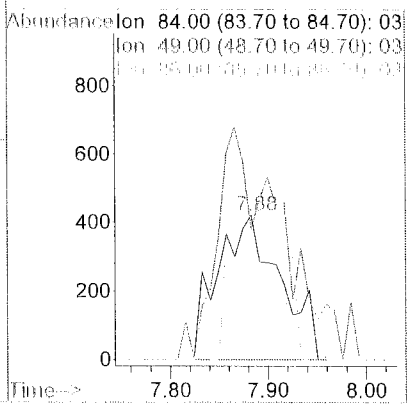


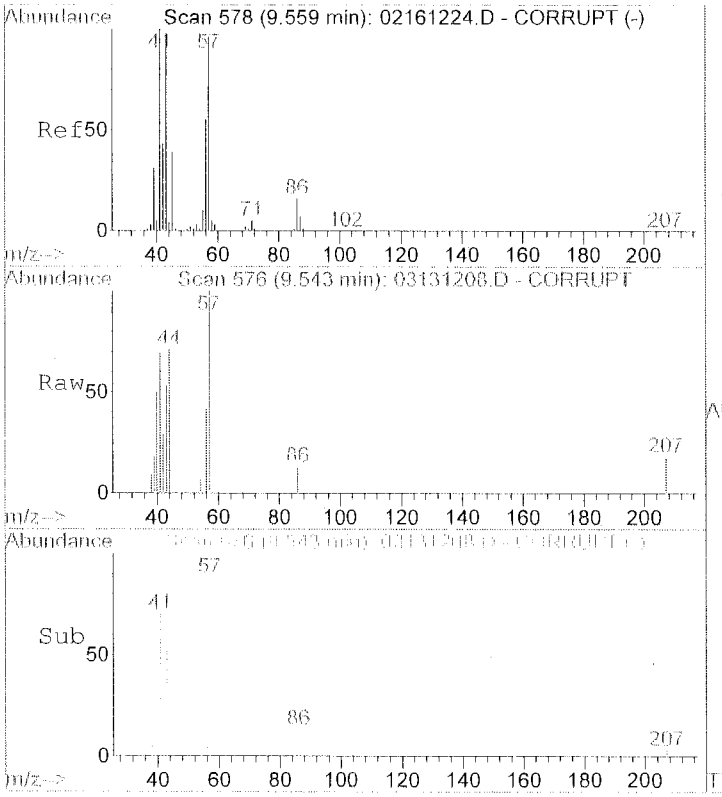


#17
Methylene Chloride
Concen: 0.10 ug/L
RT: 7.88 min Scan# 379
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 84 Resp: 1859

Ion	Ratio	Lower	Upper
84	100		
49	83.5	128.6	193.0#
86	40.8	51.2	76.8#

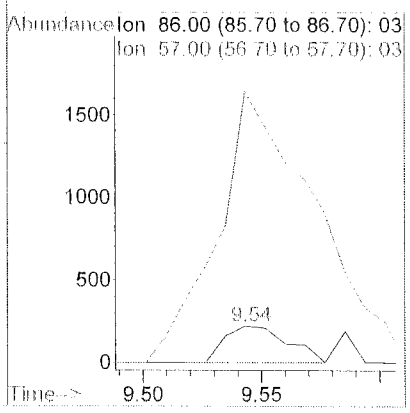


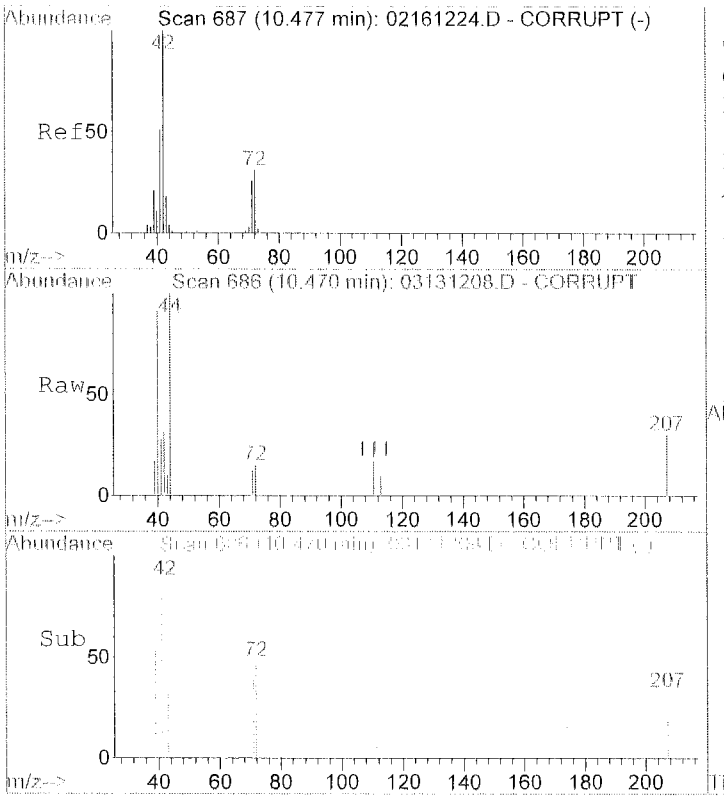


#24
n-Hexane
Concen: 0.13 ug/L
RT: 9.54 min Scan# 576
Delta R.T. -0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 86 Resp: 408

Ion	Ratio	Lower	Upper
86	100		
57	1161.0	631.8	671.8#

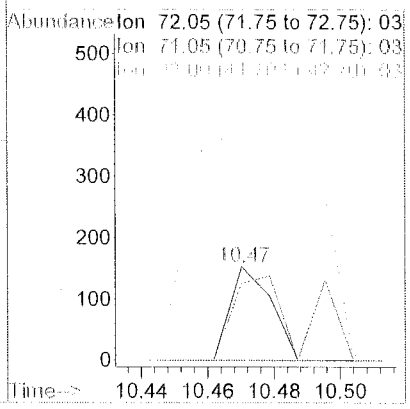


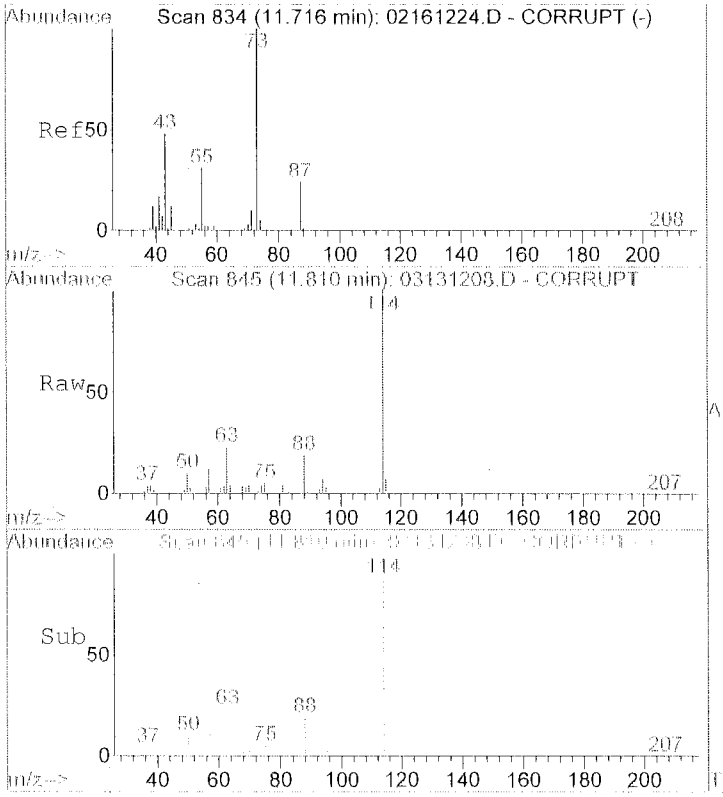


#33
Tetrahydrofuran
Concen: 0.19 ug/L
RT: 10.47 min Scan# 686
Delta R.T. -0.00 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 72 Resp: 130

Ion	Ratio	Lower	Upper
72	100		
71	153.8	74.4	114.4#
42	707.7	318.4	358.4#

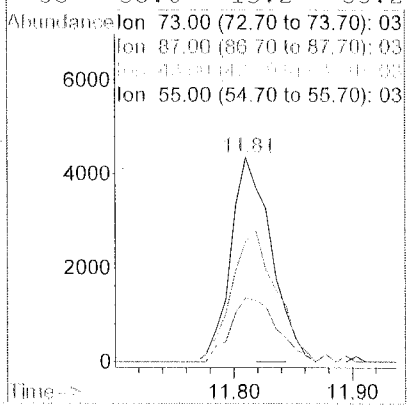


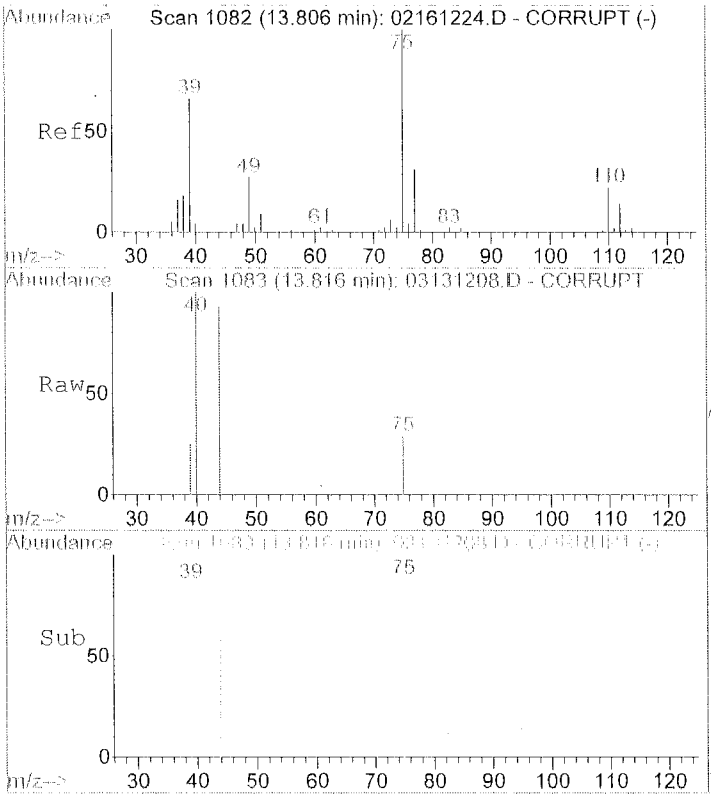


#36
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.81 min Scan# 845
Delta R.T. 0.10 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 73 Resp: 10229

Ion	Ratio	Lower	Upper
73	100		
87	70.5	3.3	43.3#
43	2.0	27.7	67.7#
55	35.6	13.2	53.2

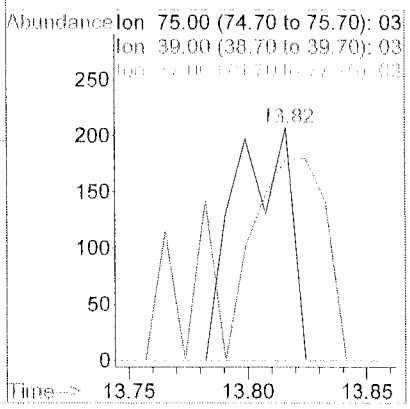


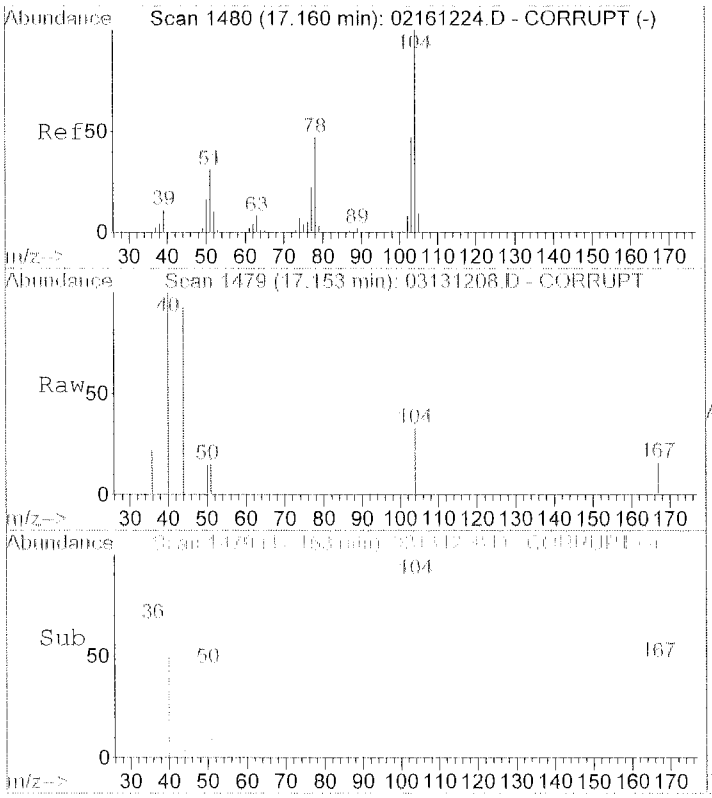


#48
trans-1,3-Dichloropropene
Concen: 0.25 ug/L
RT: 13.82 min Scan# 1083
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 75 Resp: 336

Ion	Ratio	Lower	Upper
75	100		
39	112.8	53.5	80.3#
77	0.0	25.1	37.7#

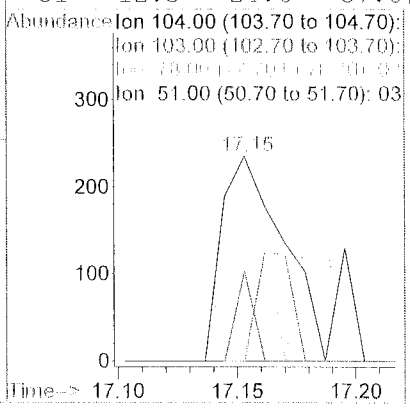


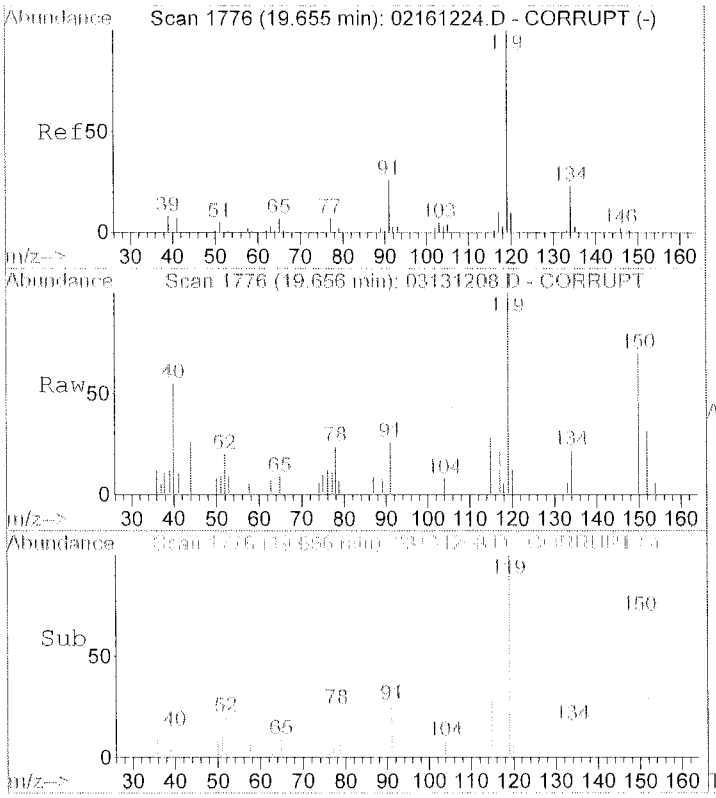


#62
Styrene
Concen: 0.12 ug/L
RT: 17.15 min Scan# 1479
Delta R.T. -0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:104 Resp: 424

Ion	Ratio	Lower	Upper
104	100		
103	29.2	37.2	55.8#
78	13.7	35.8	53.8#
51	12.3	24.6	37.0#

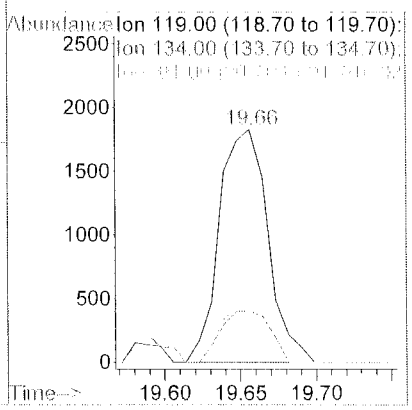


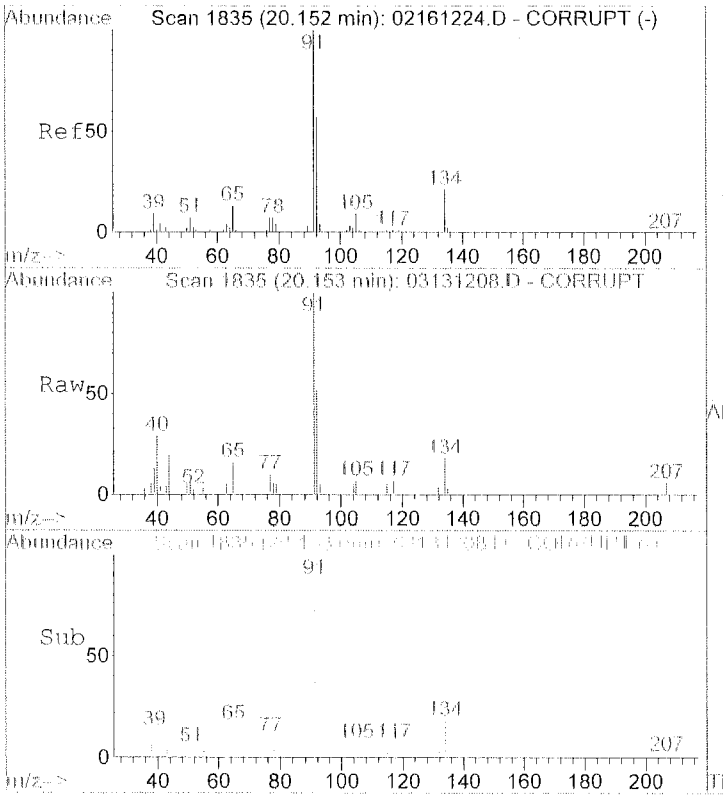


#81
4-Isopropyltoluene
Concen: 0.09 ug/L
RT: 19.66 min Scan# 1776
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:119 Resp: 4033

Ion	Ratio	Lower	Upper
119	100		
134	22.4	18.9	28.3
91	26.3	20.1	30.1

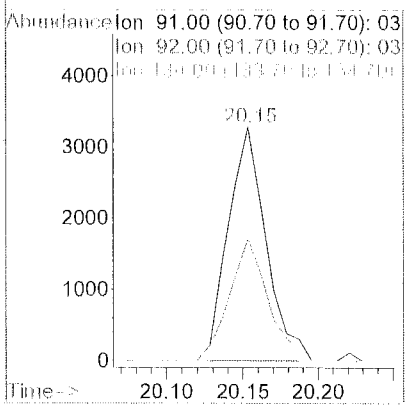


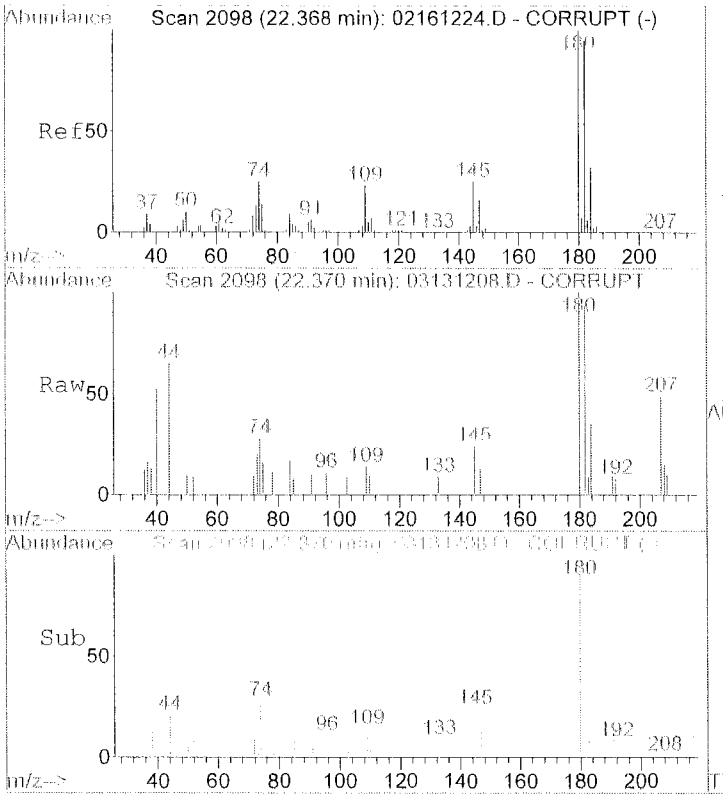


#83
n-Butylbenzene
Concen: 0.14 ug/L
RT: 20.15 min Scan# 1835
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 91 Resp: 5663

Ion	Ratio	Lower	Upper
91	100		
92	53.0	46.2	69.4
134	25.8	18.0	27.0

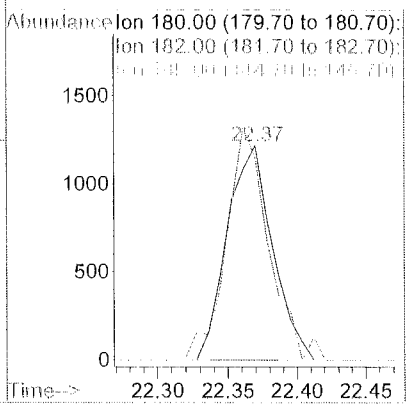


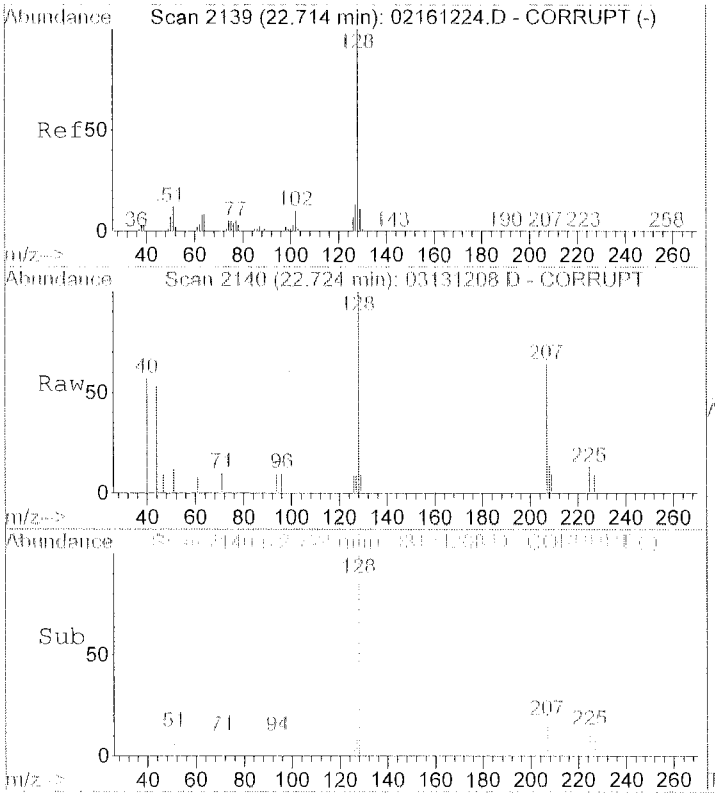


#85
1,2,4-Trichlorobenzene
Concen: 0.22 ug/L
RT: 22.37 min Scan# 2098
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:180 Resp: 2758

Ion	Ratio	Lower	Upper
180	100		
182	101.2	76.5	114.7
145	19.2	20.2	30.2#

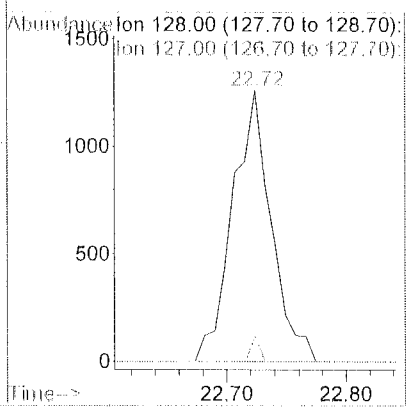


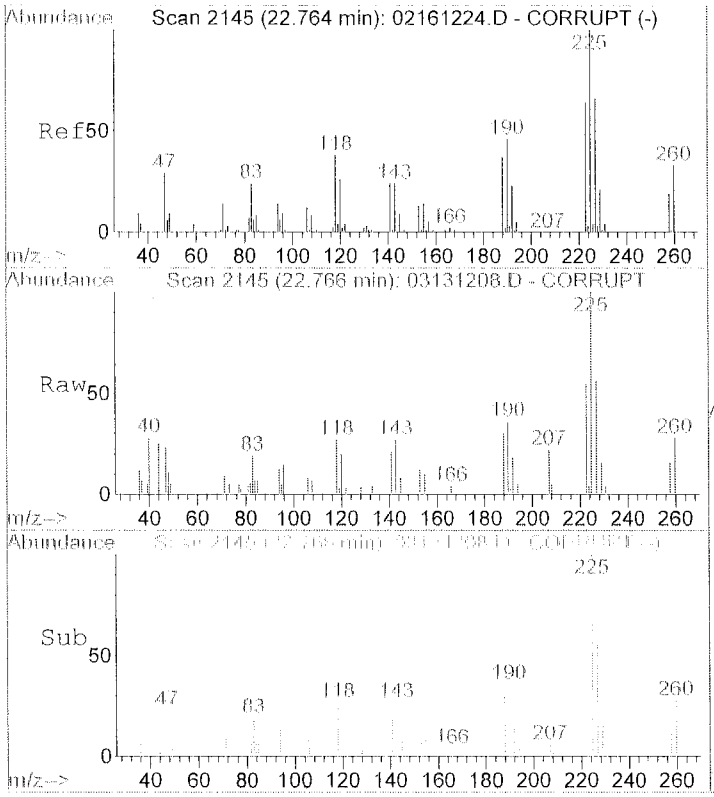


#86
Naphthalene
Concen: 0.17 ug/L
RT: 22.72 min Scan# 2140
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:128 Resp: 2816

Ion	Ratio	Lower	Upper
128	100		
127	2.1	9.8	14.6#





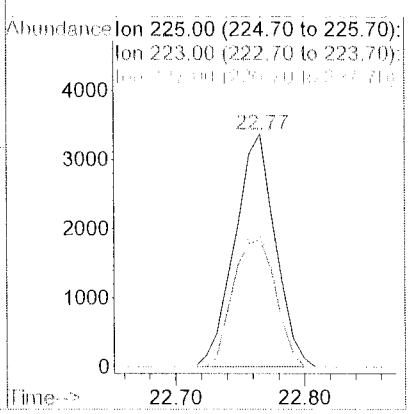
#87
Hexachlorobutadiene
Concen: 1.14 ug/L
RT: 22.77 min Scan# 2145
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

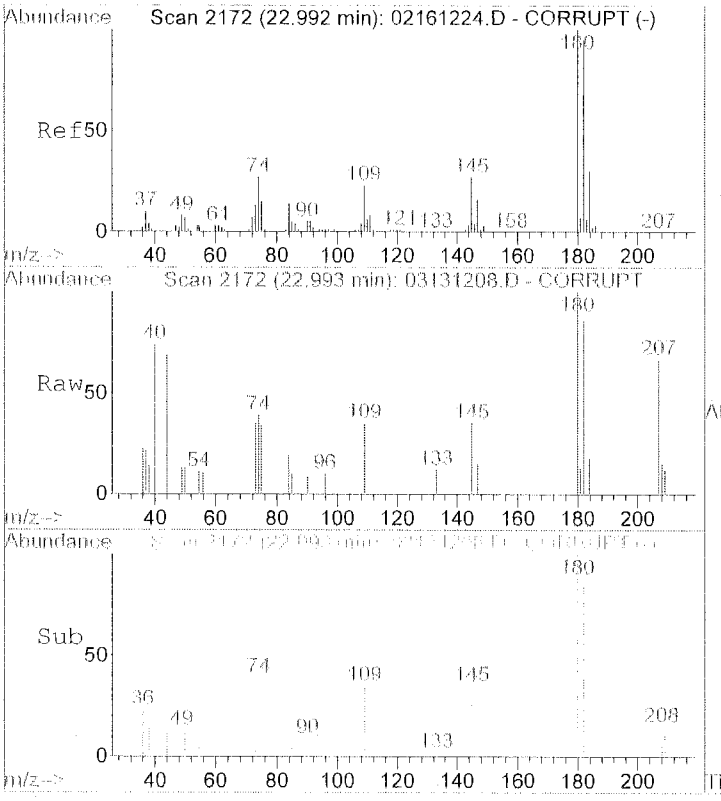
3/14/12

Tgt Ion:225 Resp: 7302

Ion	Ratio	Lower	Upper
225	100		
223	57.9	49.8	74.8
227	59.1	50.7	76.1

B

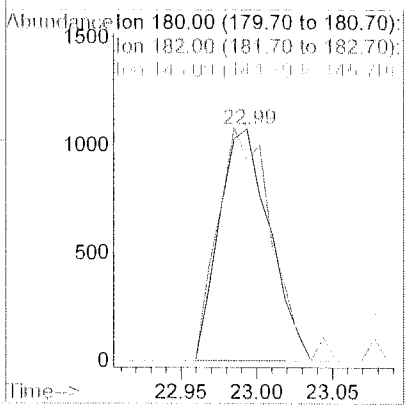




#88
1,2,3-Trichlorobenzene
Concen: 0.26 ug/L
RT: 22.99 min Scan# 2172
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:180 Resp: 2490

Ion	Ratio	Lower	Upper
180	100		
182	106.6	77.8	116.8
145	25.9	21.8	32.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131209.D Vial: 8
Acq On : 13 Mar 2012 1:55 pm Operator: JH
Sample : PVC0465-05 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	83193	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	499497	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	774197	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	646775	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	284779	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	293778	24.41 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.64%	
50) Toluene-d8 (surr)	14.19	98	877043	25.31 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.24%	
64) 4-Bromofluorobenzene (surr	17.82	95	311364	23.51 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.04%	
Target Compounds					Qvalue
2) Ethanol	6.22	45	573	11.02 ug/L	93
3) tert-Butanol (TBA)	7.68	59	74	0.10 ug/L #	1
13) Acetone	7.11	43	1585	0.39 ug/L #	51
33) Tetrahydrofuran	10.47	72	145	0.23 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.82	73	8774	0.37 ug/L #	45
48) trans-1,3-Dichloropropene	13.83	75	128	0.24 ug/L #	75
62) Styrene	17.16	104	100	0.11 ug/L #	34
85) 1,2,4-Trichlorobenzene	22.37	180	1214	0.11 ug/L #	94
87) Hexachlorobutadiene	22.76	225	3531	0.61 ug/L	95
88) 1,2,3-Trichlorobenzene	22.99	180	1058	0.12 ug/L #	81

NT/LMC

3/14/12

M

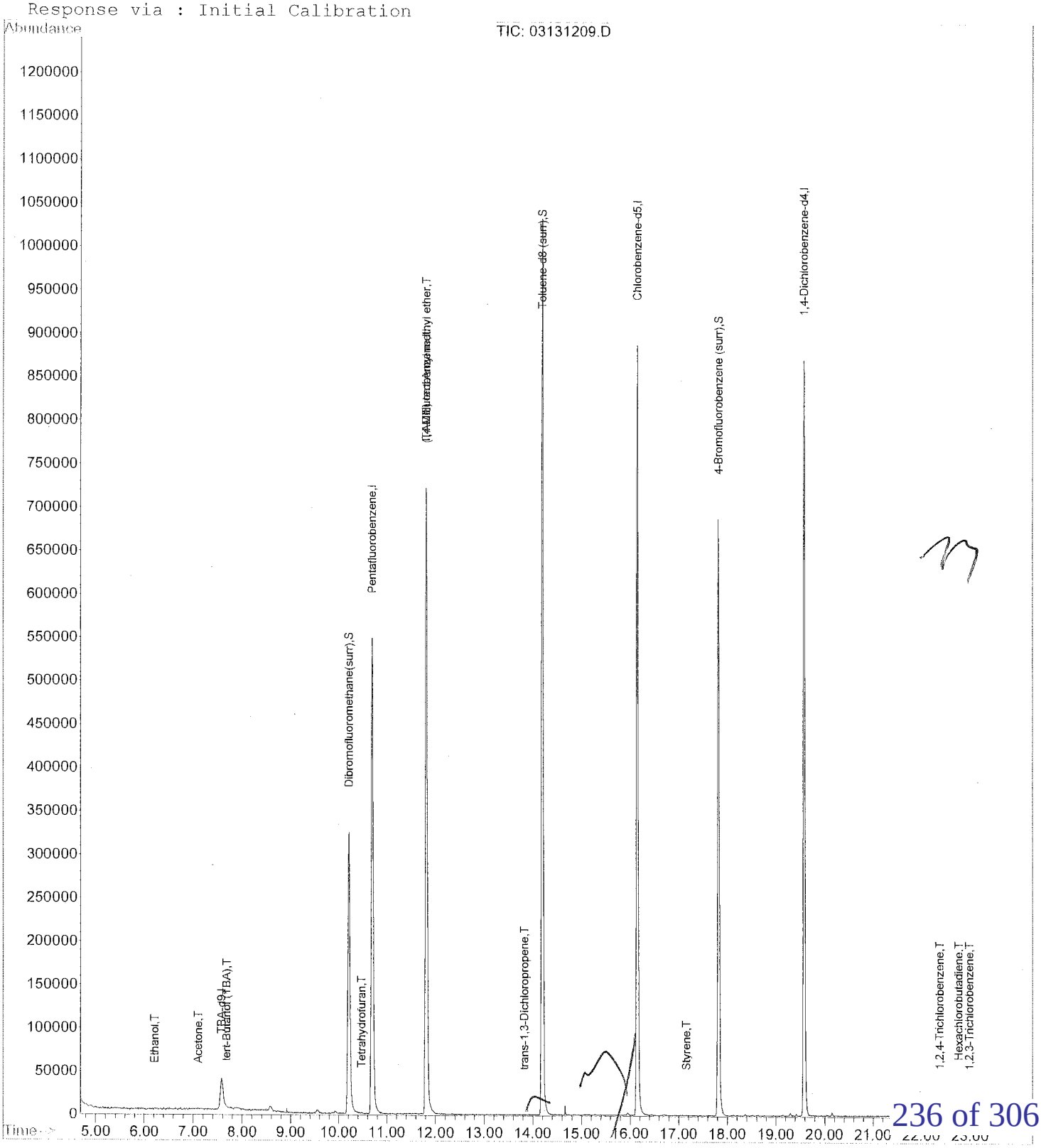
M/ 4/15/12

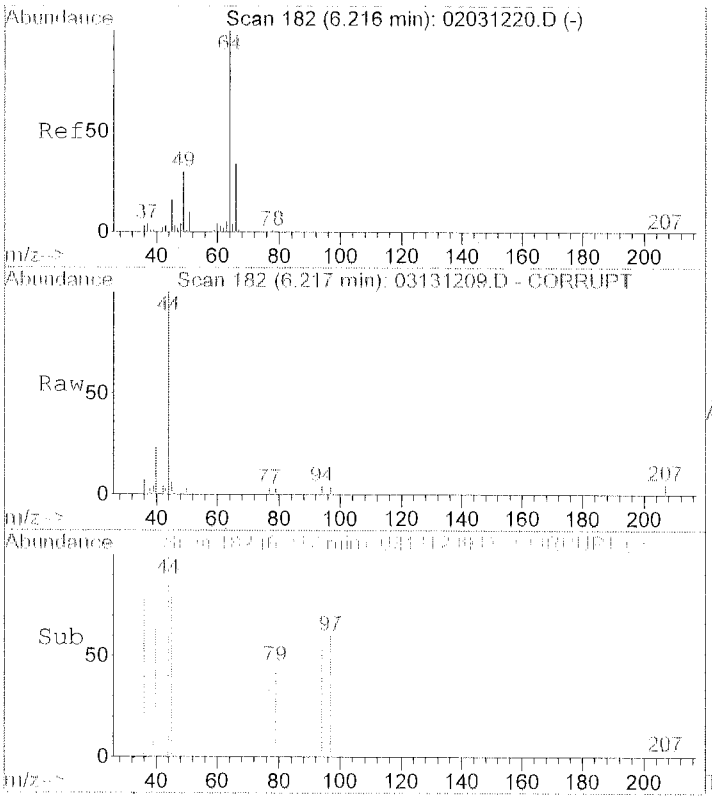
(#) = qualifier out of range (m) = manual integration
03131209.D 031212.M Wed Mar 14 11:22:11 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131209.D Vial: 8
Acq On : 13 Mar 2012 1:55 pm Operator: JH
Sample : PVC0465-05 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

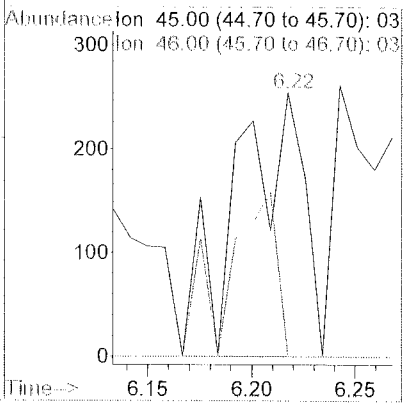


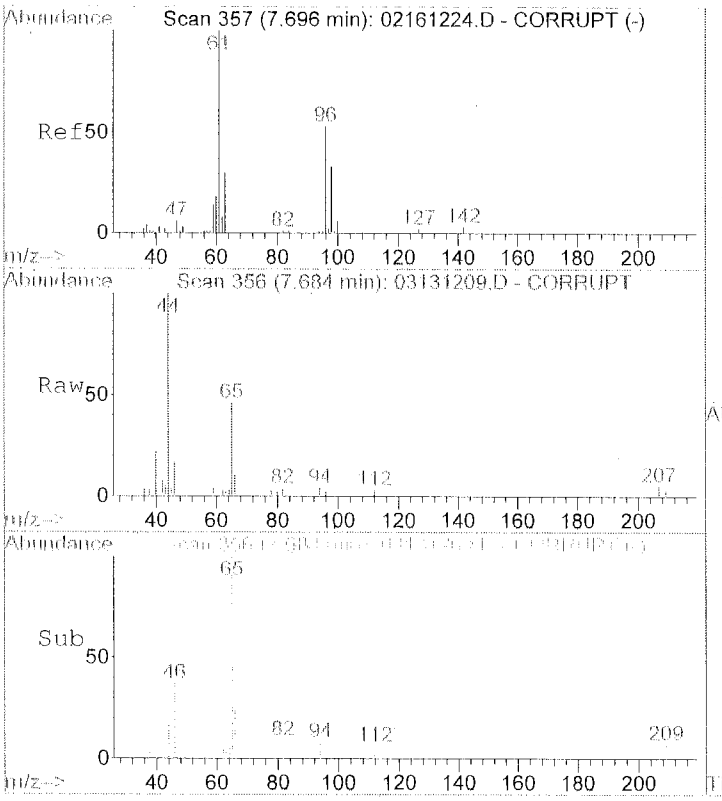


#2
Ethanol
Concen: 11.02 ug/L
RT: 6.22 min Scan# 182
Delta R.T. 0.03 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 45 Resp: 573

Ion	Ratio	Lower	Upper
45	100		
46	45.2	39.8	59.8

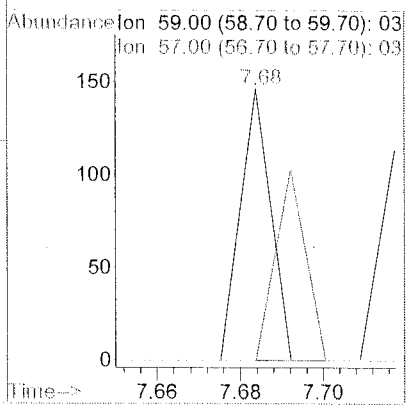


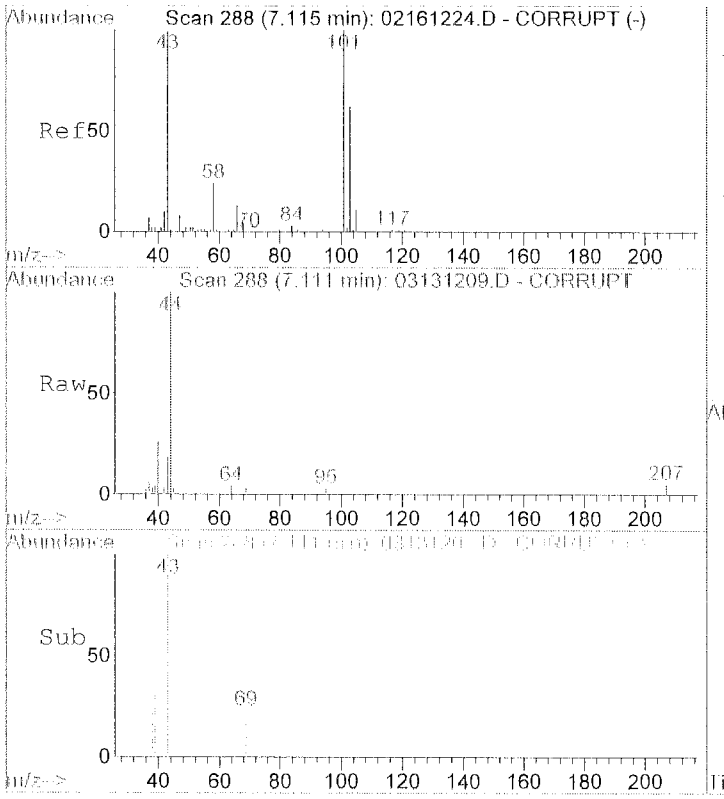


#3
tert-Butanol (TBA)
Concen: 0.10 ug/L
RT: 7.68 min Scan# 356
Delta R.T. 0.00 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 59 Resp: 74

Ion	Ratio	Lower	Upper
59	100		
57	70.3	5.4	8.2#

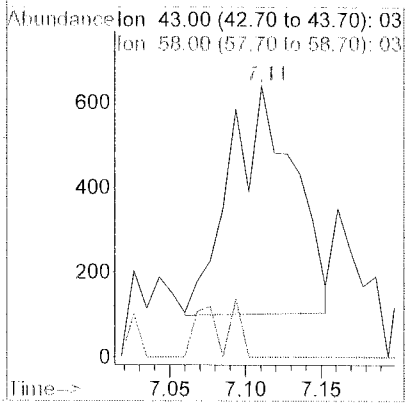


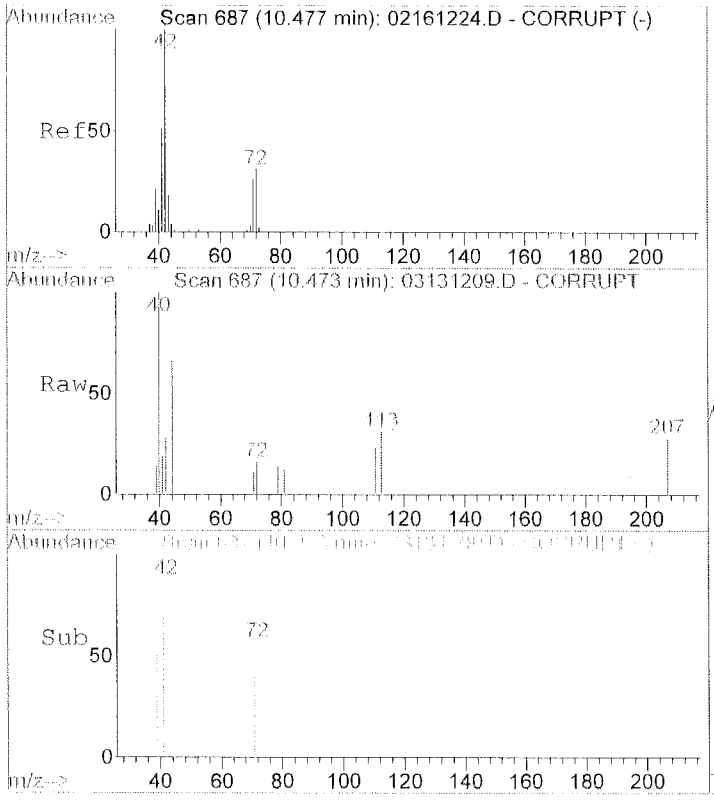


#13
Acetone
Concen: 0.39 ug/L
RT: 7.11 min Scan# 288
Delta R.T. 0.00 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 43 Resp: 1585

Ion	Ratio	Lower	Upper
43	100		
58	0.0	19.1	28.7#

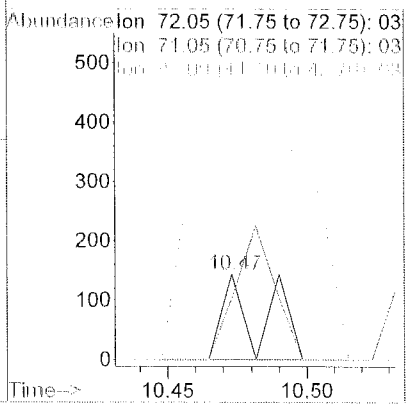


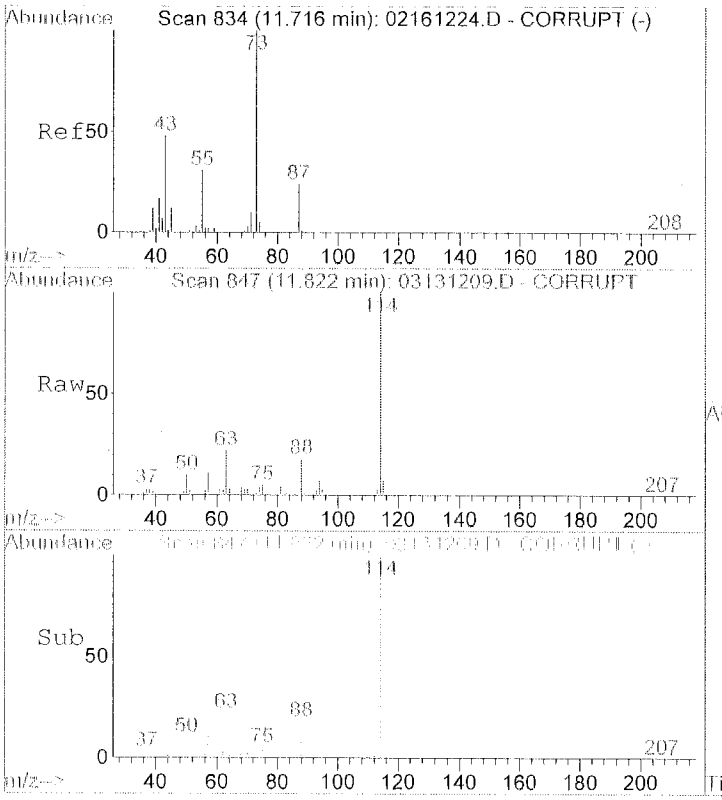


#33
Tetrahydrofuran
Concen: 0.23 ug/L
RT: 10.47 min Scan# 687
Delta R.T. 0.00 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 72 Resp: 145

Ion	Ratio	Lower	Upper
72	100		
71	150.3	74.4	114.4#
42	694.5	318.4	358.4#

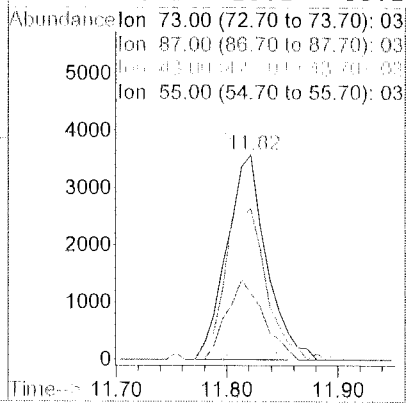


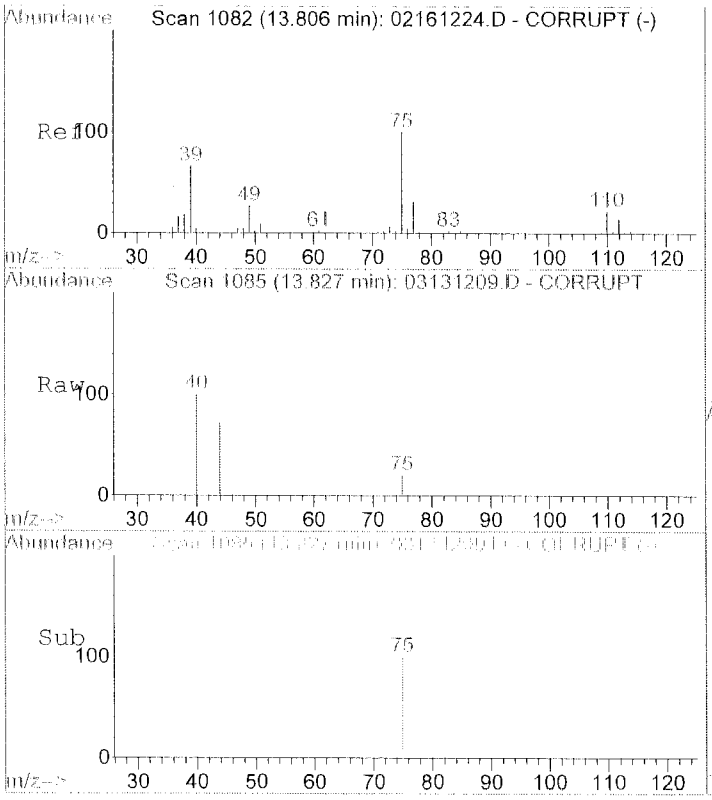


#36
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.11 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 73 Resp: 8774

Ion	Ratio	Lower	Upper
73	100		
87	78.1	3.3	43.3#
43	6.5	27.7	67.7#
55	36.4	13.2	53.2

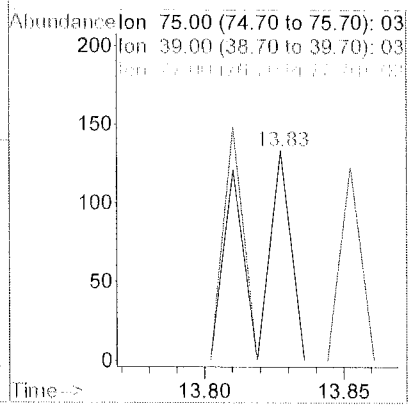


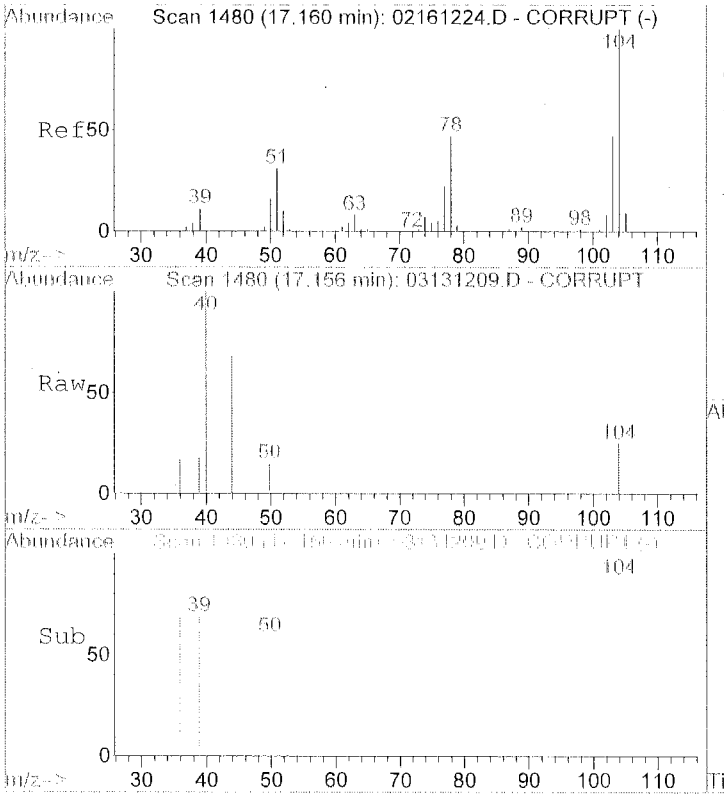


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.83 min Scan# 1085
Delta R.T. 0.02 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion: 75 Resp: 128

Ion	Ratio	Lower	Upper
75	100		
39	58.6	53.5	80.3
77	0.0	25.1	37.7#

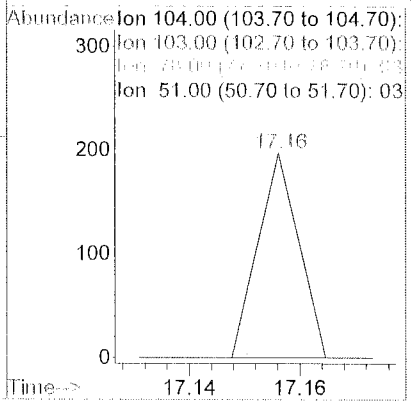


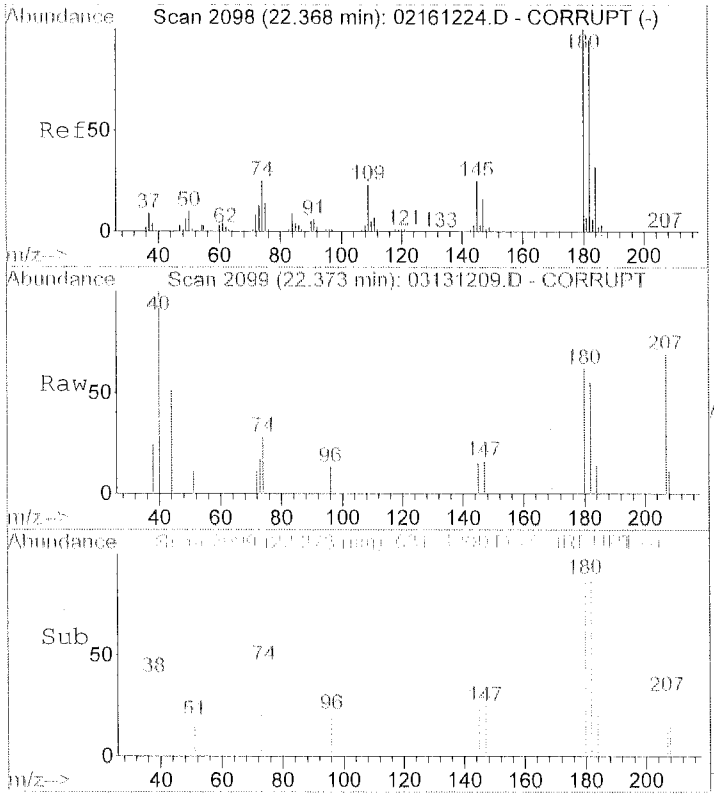


#62
Styrene
Concen: 0.11 ug/L
RT: 17.16 min Scan# 1480
Delta R.T. -0.01 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion:104 Resp: 100

Ion	Ratio	Lower	Upper
104	100		
103	0.0	37.2	55.8#
78	0.0	35.8	53.8#
51	0.0	24.6	37.0#

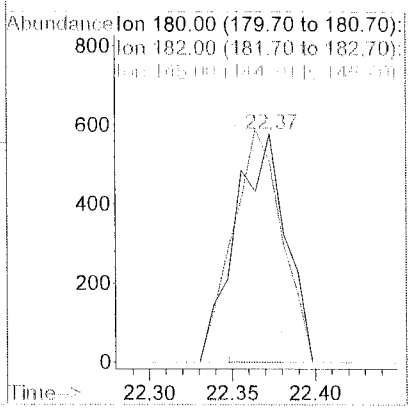


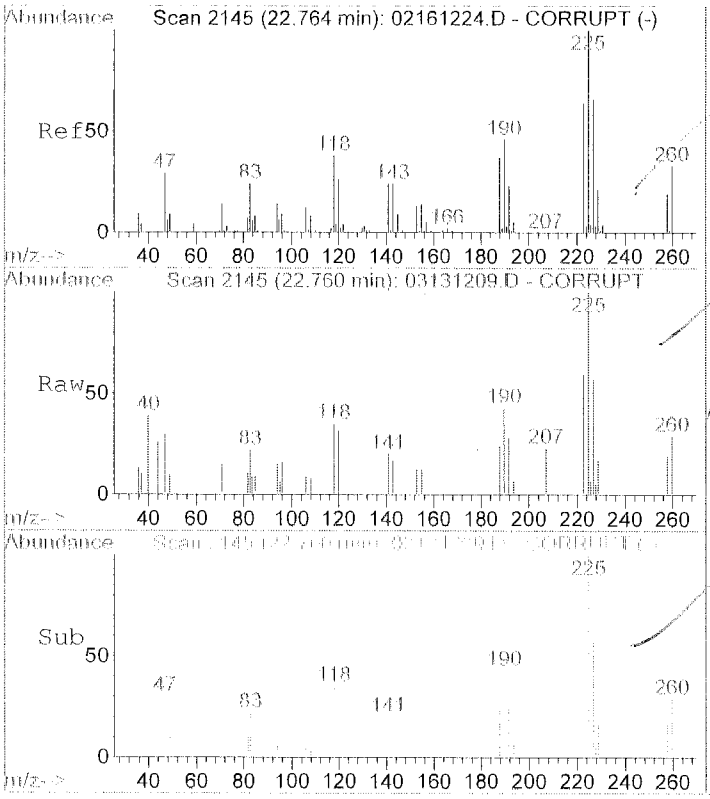


#85
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 22.37 min Scan# 2099
Delta R.T. 0.01 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion:180 Resp: 1214

Ion	Ratio	Lower	Upper
180	100		
182	99.4	76.5	114.7
145	19.0	20.2	30.2#

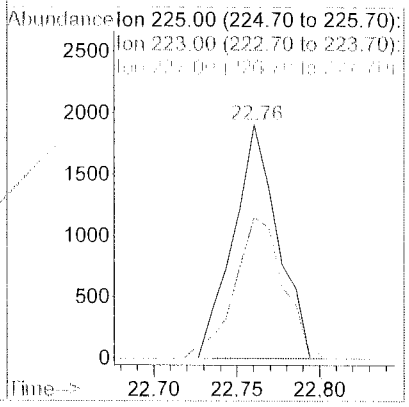




#87
Hexachlorobutadiene
Concen: 0.61 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.00 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

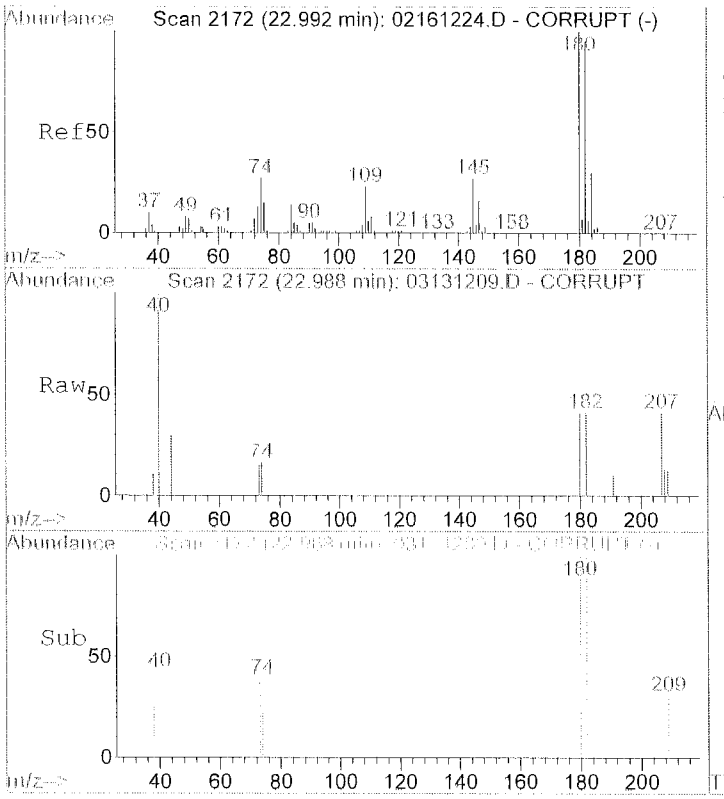
Tgt Ion:225 Resp: 3531

Ion	Ratio	Lower	Upper
225	100		
223	65.6	49.8	74.8
227	59.2	50.7	76.1



J

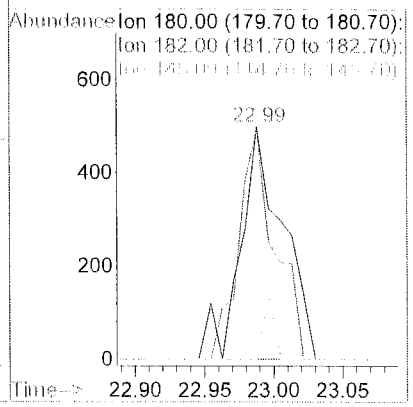
3/14/12



#88
1,2,3-Trichlorobenzene
Concen: 0.12 ug/L
RT: 22.99 min Scan# 2172
Delta R.T. 0.00 min
Lab File: 03131209.D
Acq: 13 Mar 2012 1:55 pm

Tgt Ion:180 Resp: 1058

Ion	Ratio	Lower	Upper
180	100		
182	84.9	77.8	116.8
145	6.6	21.8	32.6#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131211.D Vial: 10
Acq On : 13 Mar 2012 2:58 pm Operator: JH
Sample : PVC0524-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	75929	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	472239	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	748284	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	621216	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	266997	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	280630	24.66 ug/L	0.00
Spiked Amount 25.000			Recovery = 98.64%		
50) Toluene-d8 (surr)	14.19	98	828007	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery = 98.88%		
64) 4-Bromofluorobenzene (surr	17.82	95	296466	23.30 ug/L	0.00
Spiked Amount 25.000			Recovery = 93.20%		

Target Compounds					Qvalue
2) Ethanol	6.29	45	110	2.32 ug/L	97
13) Acetone	7.12	43	1892	0.49 ug/L #	83
29) Chloroform	10.05	83	13297	0.53 ug/L	95
36) (TAME) tert-Amyl methyl et	11.81	73	9125	0.41 ug/L #	40
43) Trichloroethene	12.36	95	2285	0.18 ug/L	91
48) trans-1,3-Dichloropropene	13.80	75	149	0.24 ug/L #	68
57) Tetrachloroethene	15.27	164	3796	0.42 ug/L	94
87) Hexachlorobutadiene	22.77	225	1299	0.24 ug/L	91

NT/LM

3/14/12 M

3/14/12 M

M 3/14/12

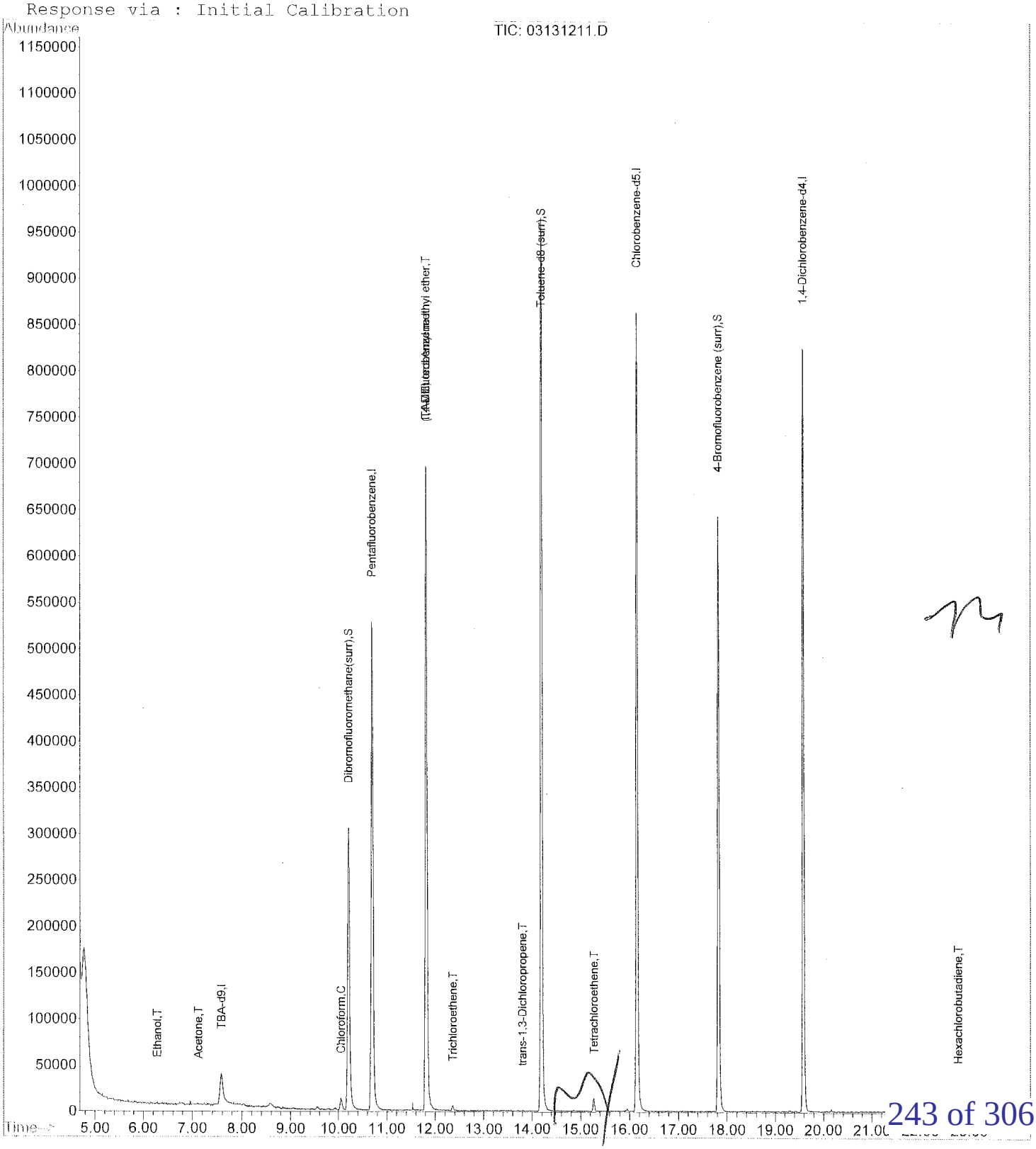
(#) = qualifier out of range (m) = manual integration

03131211.D 031212.M Wed Mar 14 11:22:54 2012

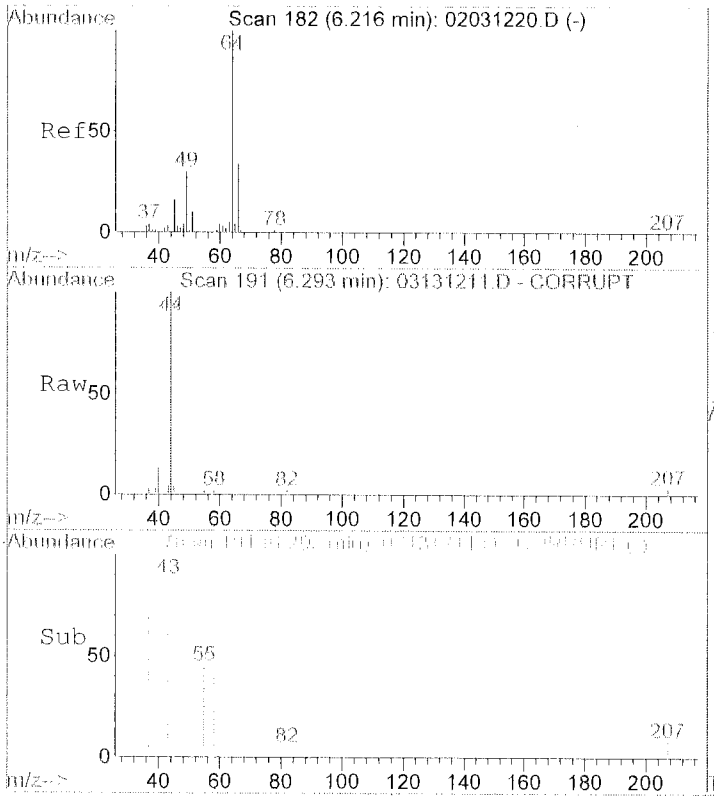
Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131211.D Vial: 10
Acq On : 13 Mar 2012 2:58 pm Operator: JH
Sample : PVC0524-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



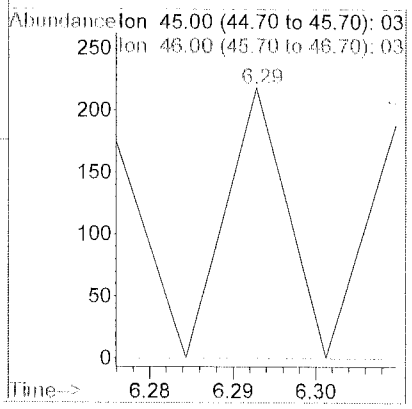
03131211.D 031212.M Wed Mar 14 11:22:55 2012 Page 2

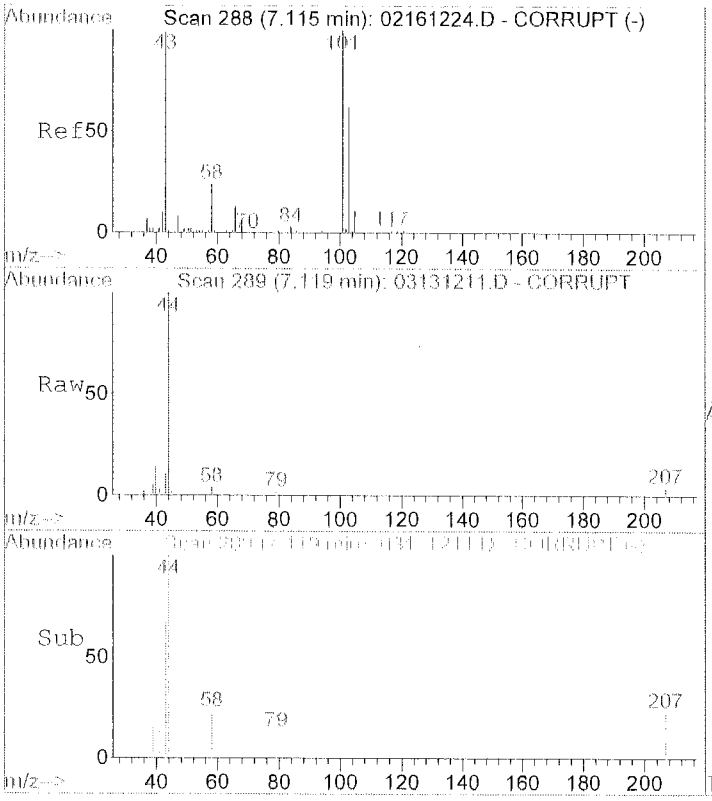


#2
Ethanol
Concen: 2.32 ug/L
RT: 6.29 min Scan# 191
Delta R.T. 0.11 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 45 Resp: 110

Ion	Ratio	Lower	Upper
45	100		
46	51.8	39.8	59.8

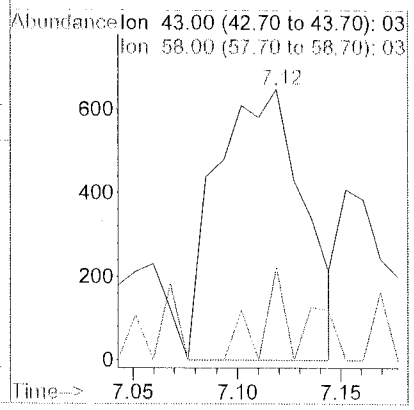


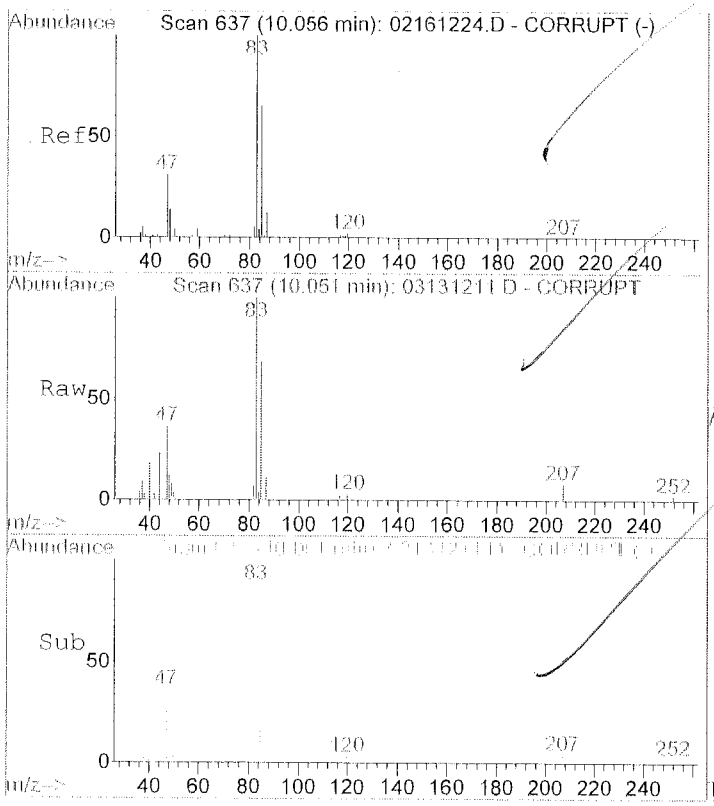


#13
Acetone
Concen: 0.49 ug/L
RT: 7.12 min Scan# 289
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 43 Resp: 1892

Ion	Ratio	Lower	Upper
43	100		
58	15.8	19.1	28.7#

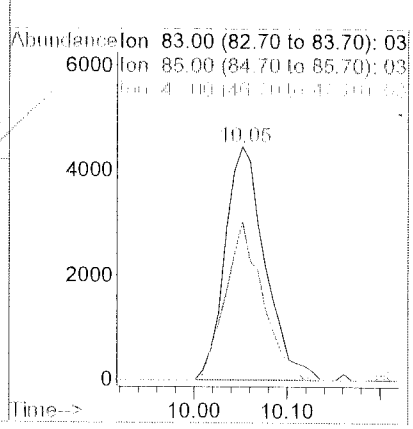




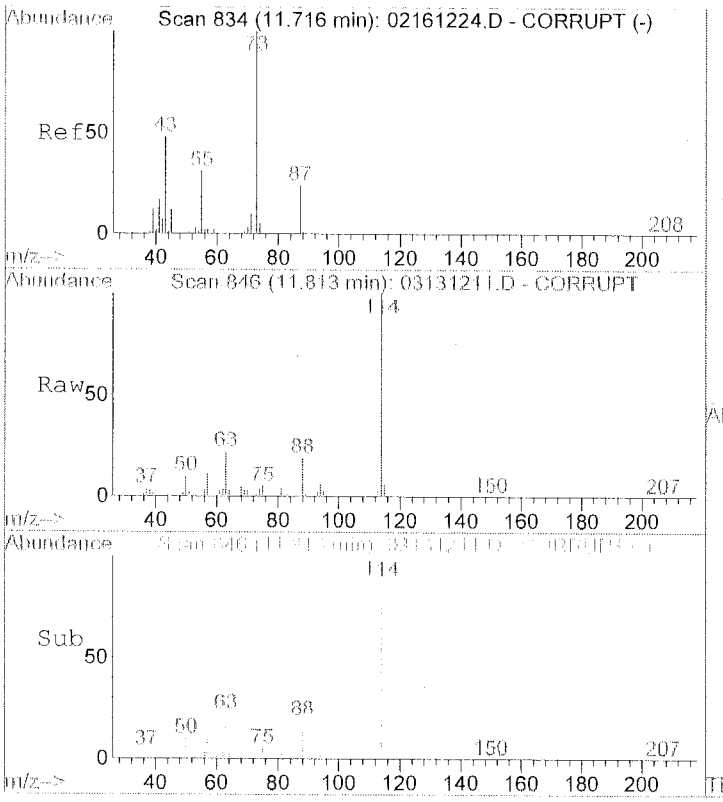
#29
Chloroform
Concen: 0.53 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 83 Resp: 13297

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.3	78.5
47	34.4	31.8	47.8



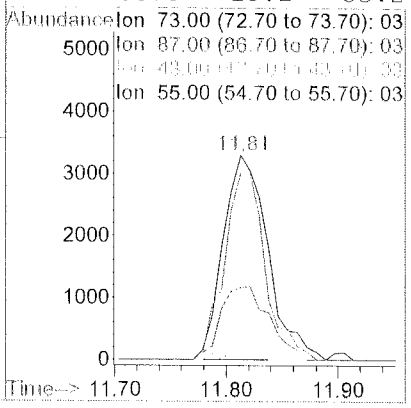
3/14/12

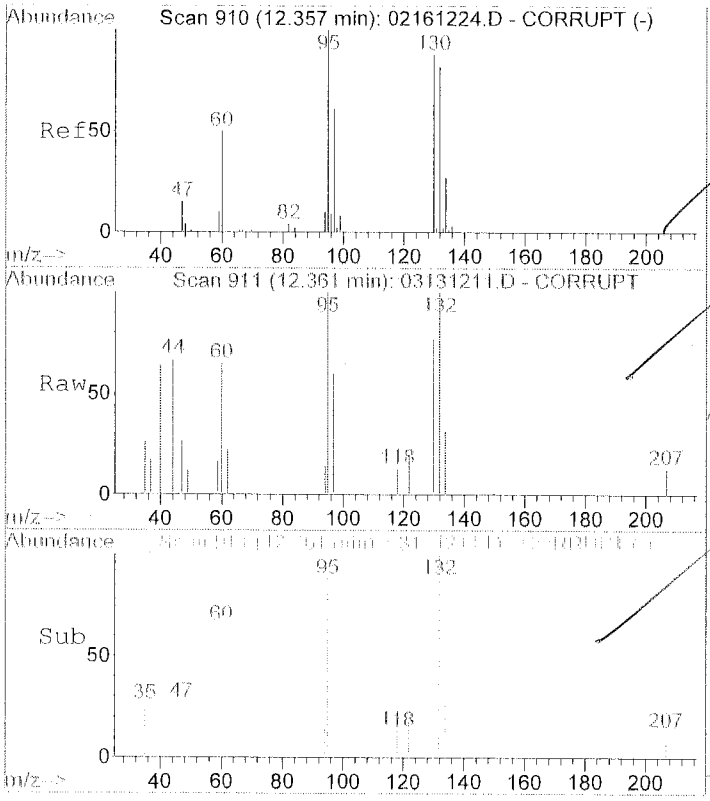


#36
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 73 Resp: 9125

Ion	Ratio	Lower	Upper
73	100		
87	83.9	3.3	43.3#
43	4.7	27.7	67.7#
55	38.5	13.2	53.2

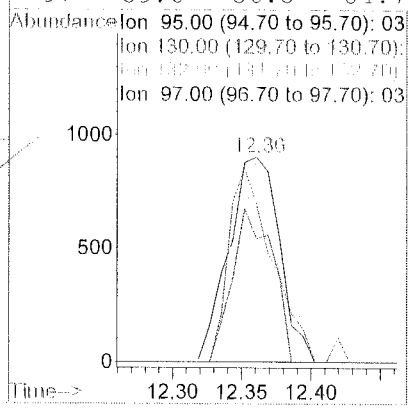




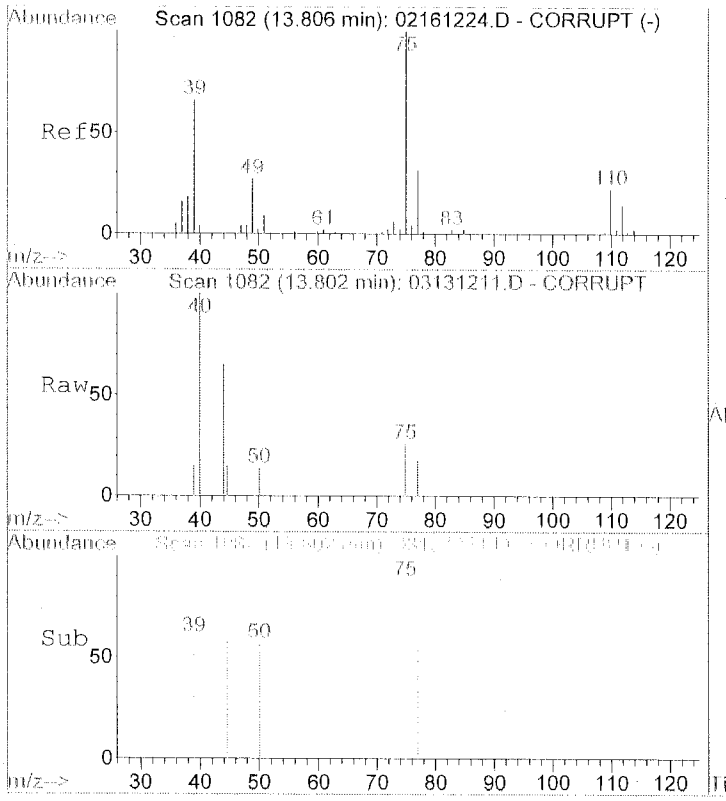
#43
Trichloroethene
Concen: 0.18 ug/L
RT: 12.36 min Scan# 911
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 95 Resp: 2285

Ion	Ratio	Lower	Upper
95	100		
130	81.4	74.2	111.4
132	92.2	71.2	106.8
97	59.6	56.5	84.7



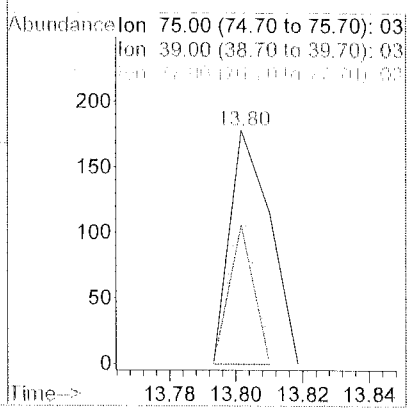
3/14/12

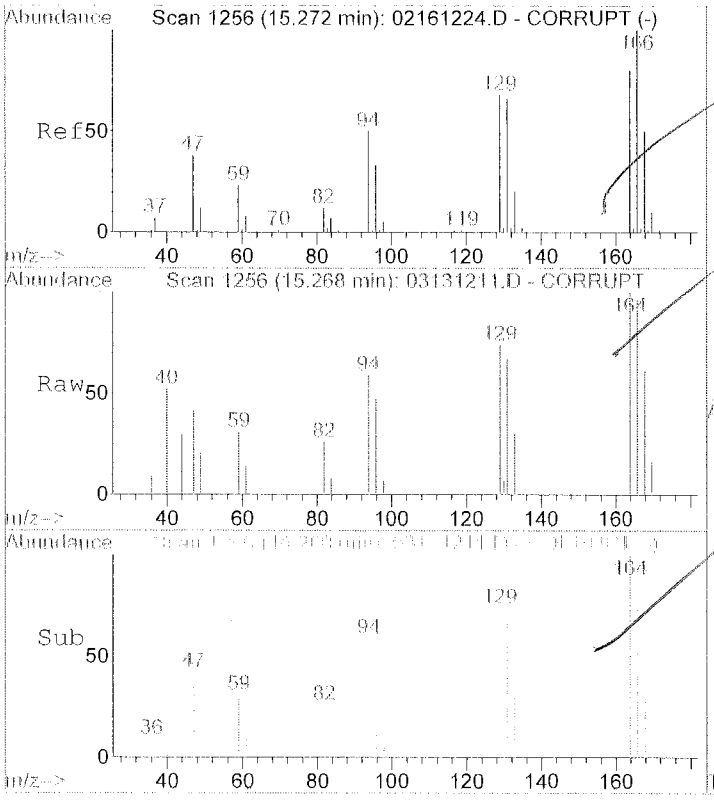


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1082
Delta R.T. -0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 75 Resp: 149

Ion	Ratio	Lower	Upper
75	100		
39	36.2	53.5	80.3#
77	42.3	25.1	37.7#

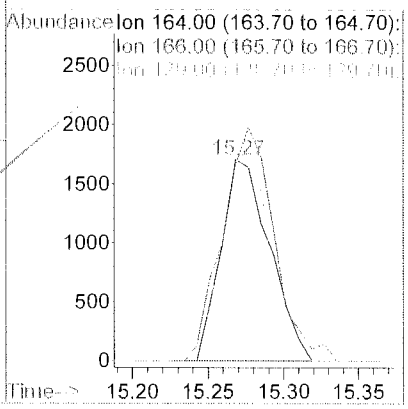




#57
Tetrachloroethene
Concen: 0.42 ug/L
RT: 15.27 min Scan# 1256
Delta R.T. -0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion:164 Resp: 3796

Ion	Ratio	Lower	Upper
164	100		
166	122.7	103.3	154.9
129	97.4	72.7	109.1



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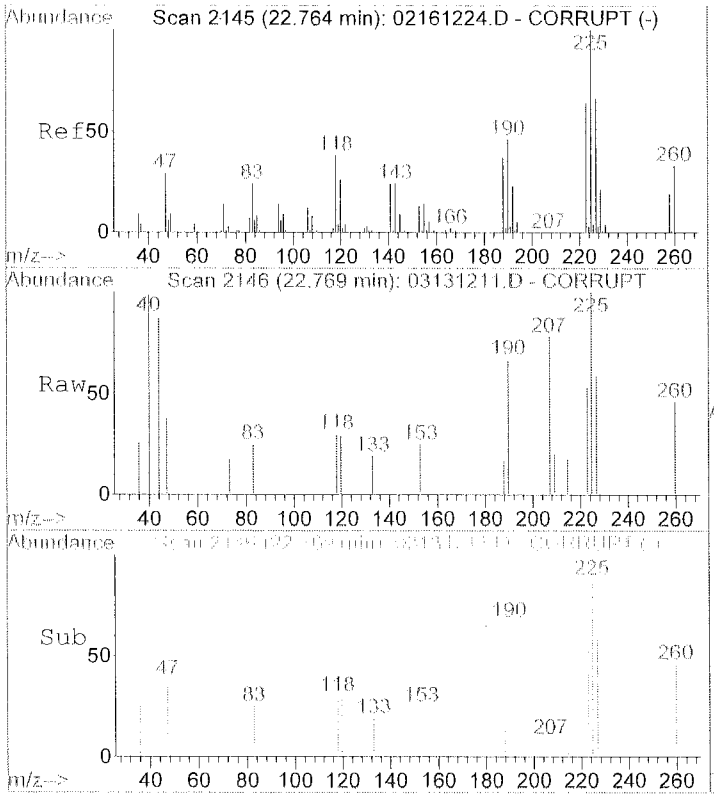
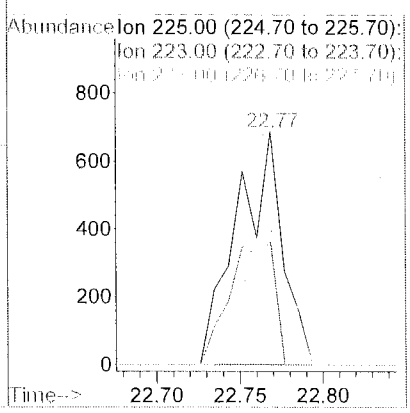


#87
Hexachlorobutadiene
Concen: 0.24 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion:225 Resp: 1299

Ion	Ratio	Lower	Upper
225	100		
223	52.0	49.8	74.8
227	60.0	50.7	76.1



M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131218.D Vial: 17
Acq On : 13 Mar 2012 6:38 pm Operator: JH
Sample : PVC0465-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	78937	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	449045	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	726316	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	614448	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	262642	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	283924	26.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.96%	
50) Toluene-d8 (surr)	14.20	98	823820	25.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.36%	
64) 4-Bromofluorobenzene (surr	17.82	95	292716	23.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.04%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	279	5.65 ug/L	90
13) Acetone	7.09	43	1172	0.32 ug/L #	51
29) Chloroform	10.05	83	13931	0.59 ug/L	94
36) (TAME) tert-Amyl methyl et	11.81	73	9110	0.43 ug/L #	44
43) Trichloroethene	12.35	95	2952	0.24 ug/L	89
57) Tetrachloroethene	15.28	164	5384	0.60 ug/L	94

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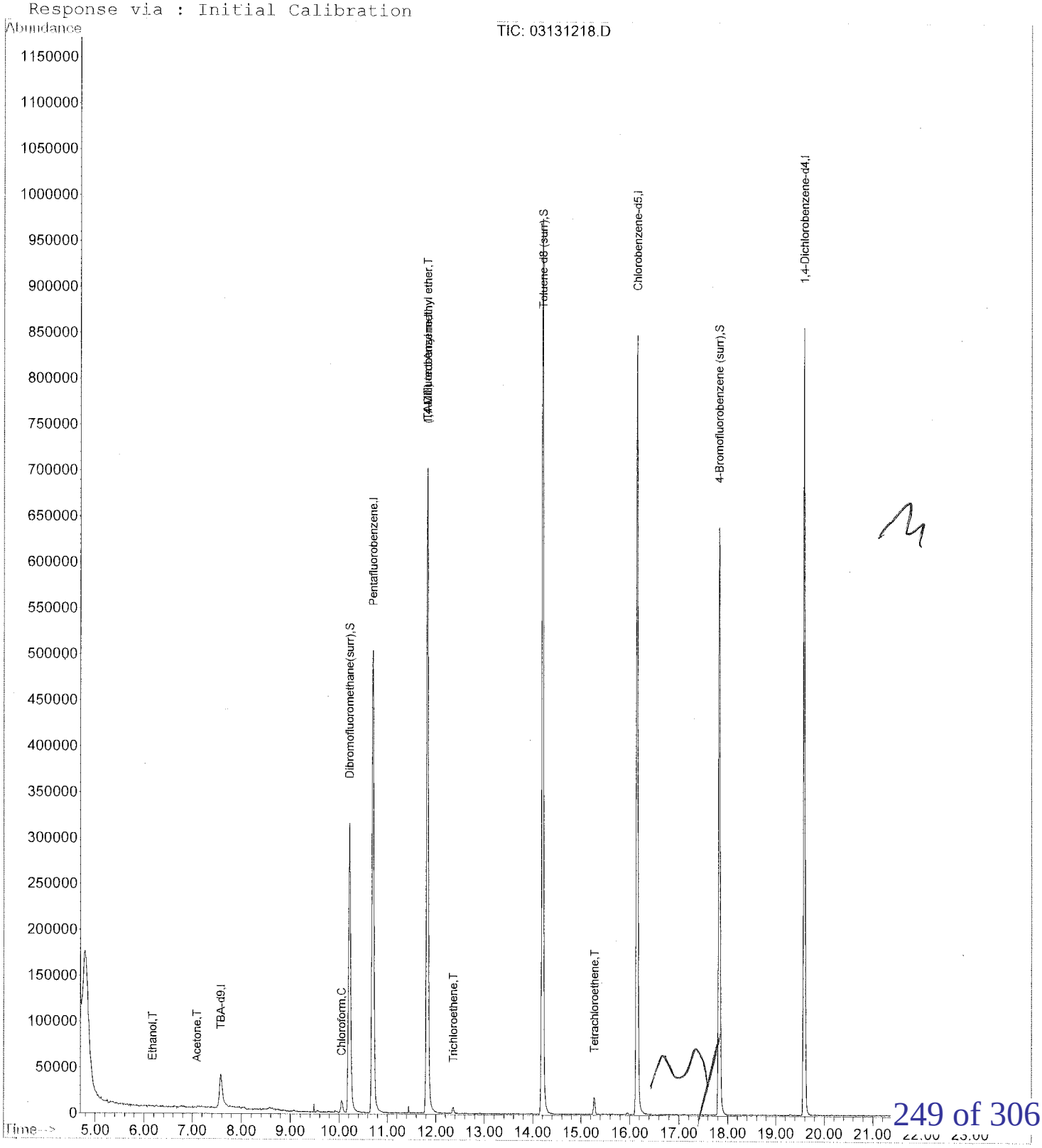
(#) = qualifier out of range (m) = manual integration
03131218.D 031212.M Wed Mar 14 11:25:39 2012

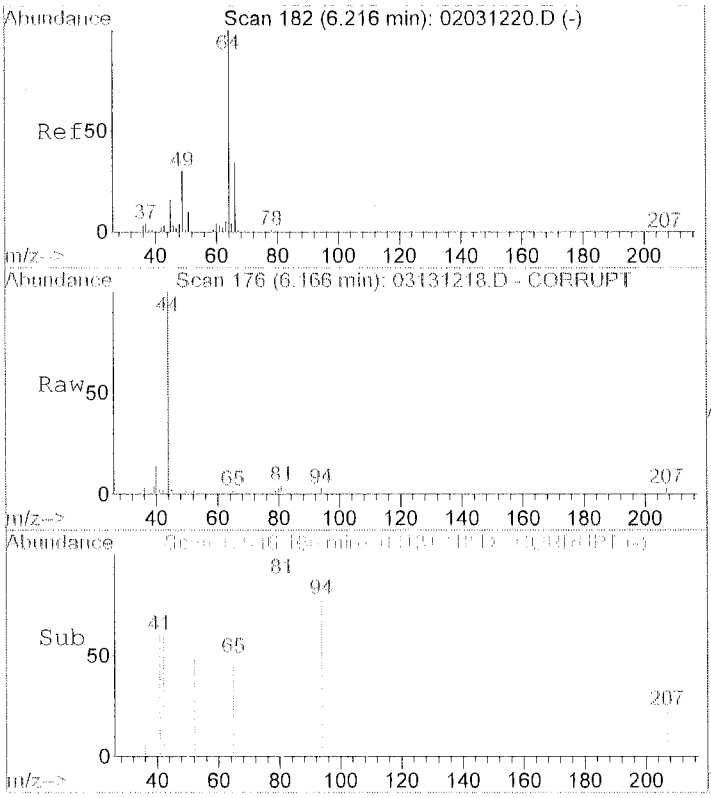
Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131218.D Vial: 17
Acq On : 13 Mar 2012 6:38 pm Operator: JH
Sample : PVC0465-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



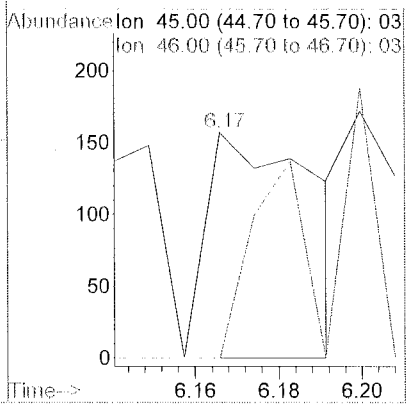
03131218.D 031212.M Wed Mar 14 11:25:40 2012 Page 2

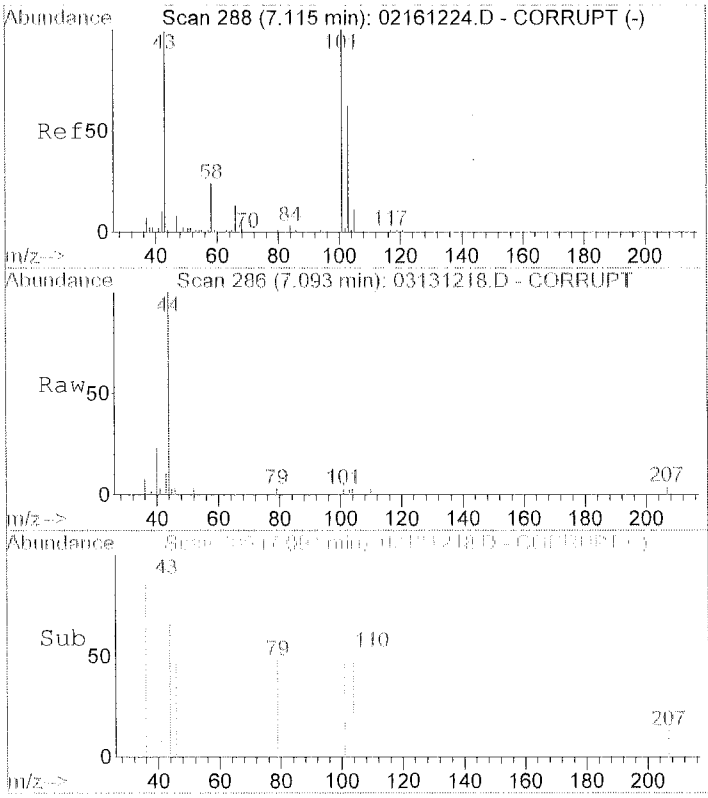


#2
Ethanol
Concen: 5.65 ug/L
RT: 6.17 min Scan# 176
Delta R.T. -0.02 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion: 45 Resp: 279

Ion	Ratio	Lower	Upper
45	100		
46	43.0	39.8	59.8

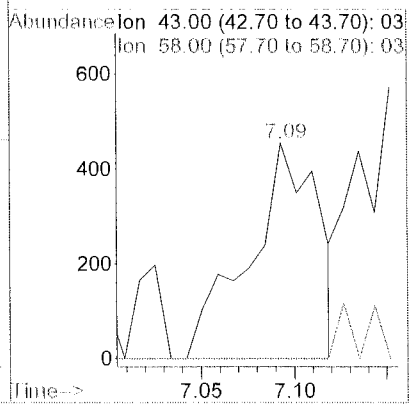


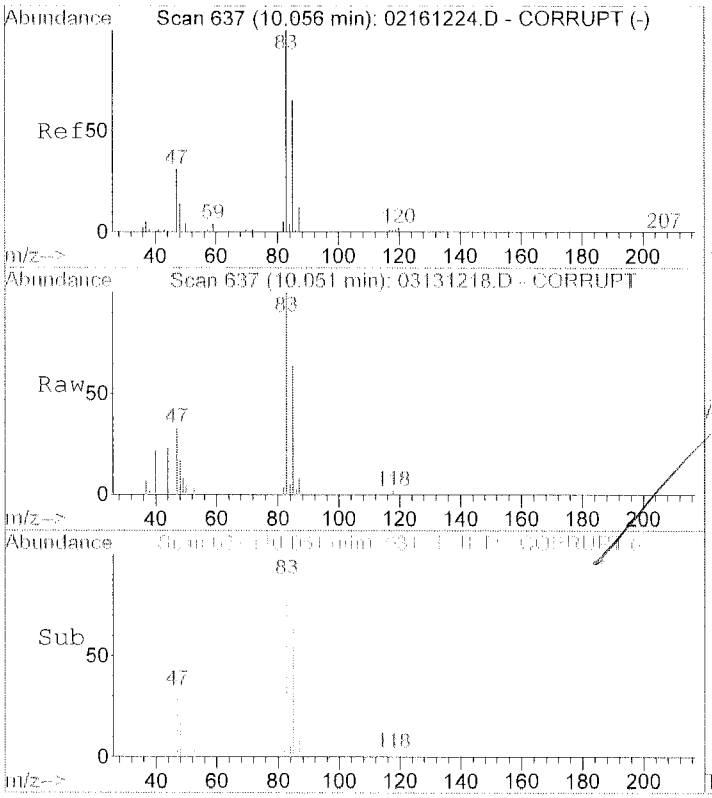


#13
Acetone
Concen: 0.32 ug/L
RT: 7.09 min Scan# 286
Delta R.T. -0.02 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion: 43 Resp: 1172

Ion	Ratio	Lower	Upper
43	100		
58	0.0	19.1	28.7#

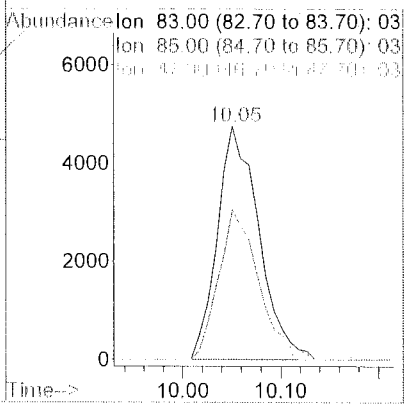


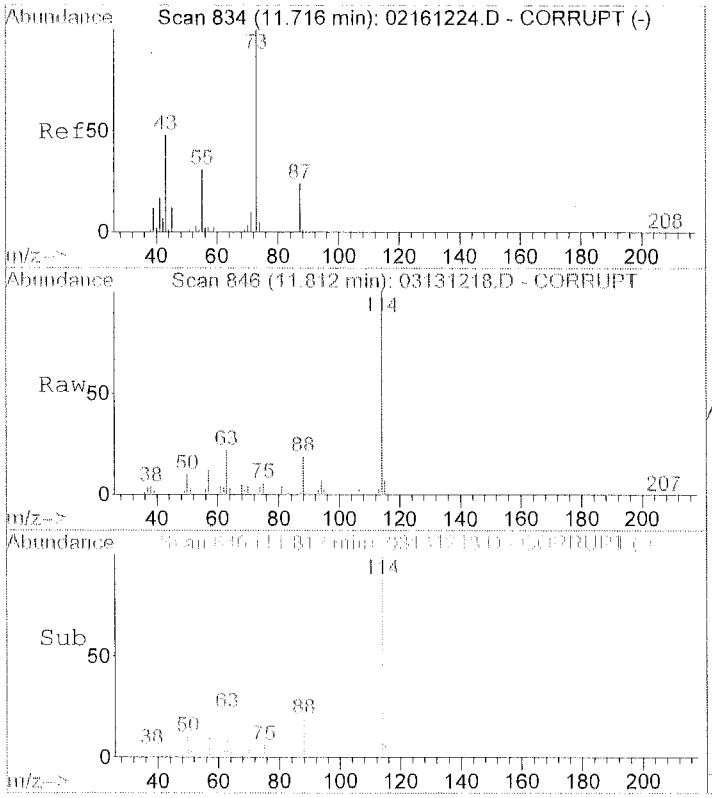


#29
Chloroform
Concen: 0.59 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion: 83 Resp: 13931

Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.3	78.5
47	33.5	31.8	47.8

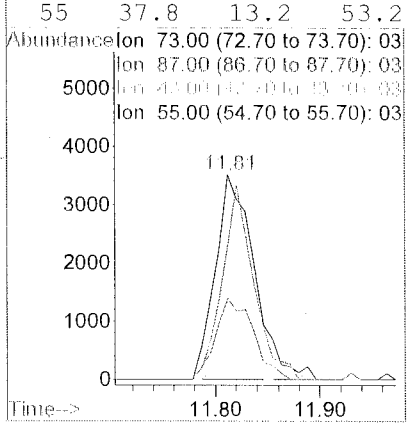




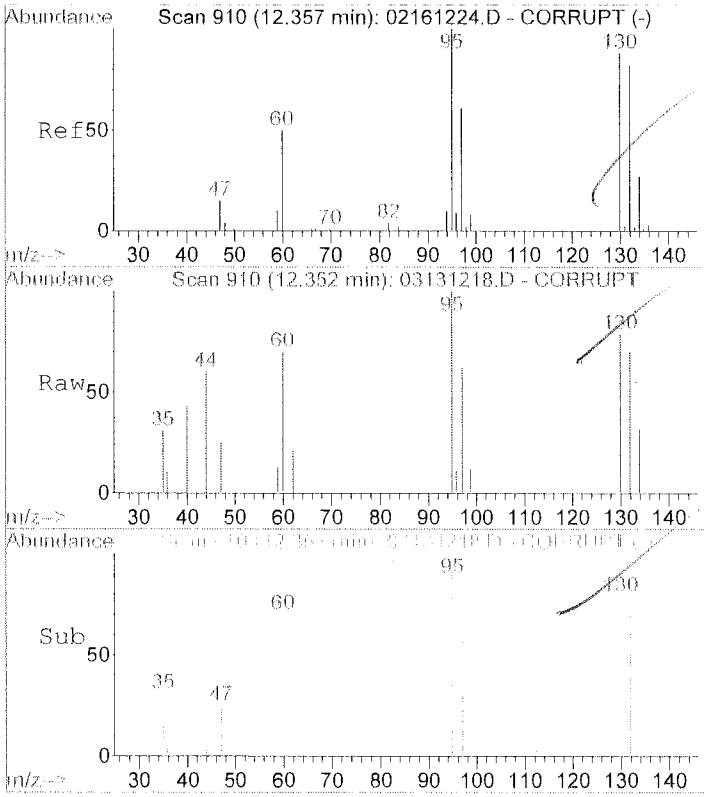
#36
(TAME) tert-Amyl methyl ether
Concen: 0.43 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion: 73 Resp: 9110

Ion	Ratio	Lower	Upper
73	100		
87	76.4	3.3	43.3#
43	5.6	27.7	67.7#
55	37.8	13.2	53.2



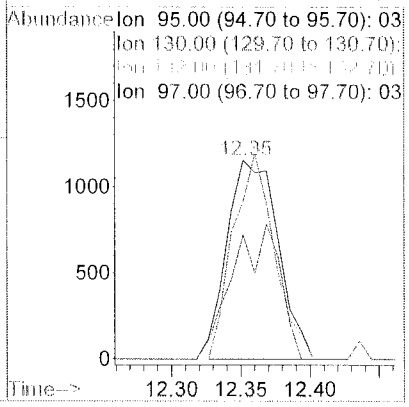
3/14/12



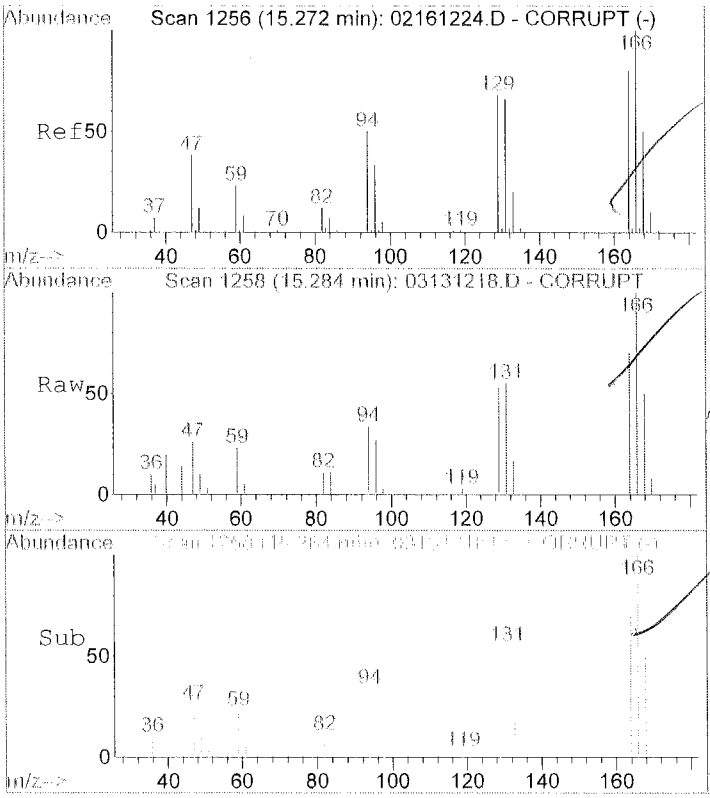
#43
Trichloroethene
Concen: 0.24 ug/L
RT: 12.35 min Scan# 910
Delta R.T. 0.00 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion: 95 Resp: 2952

Ion	Ratio	Lower	Upper
95	100		
130	83.2	74.2	111.4
132	76.6	71.2	106.8
97	62.6	56.5	84.7



J



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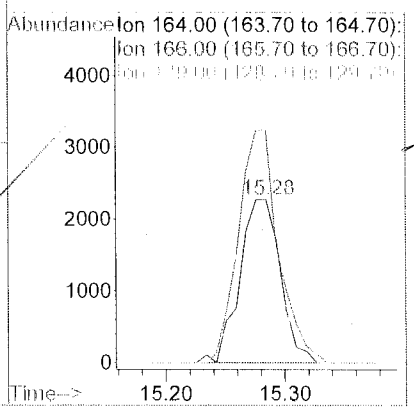
#57
Tetrachloroethene
Concen: 0.60 ug/L
RT: 15.28 min Scan# 1258
Delta R.T. 0.01 min
Lab File: 03131218.D
Acq: 13 Mar 2012 6:38 pm

Tgt Ion:164 Resp: 5384

Ion	Ratio	Lower	Upper
164	100		
166	140.4	103.3	154.9
129	92.5	72.7	109.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131219.D Vial: 18
Acq On : 13 Mar 2012 7:09 pm Operator: JH
Sample : PVC0465-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	75497	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	462705	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	746164	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	605193	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	259282	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	288454	25.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.48%	
50) Toluene-d8 (surr)	14.19	98	838781	25.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.44%	
64) 4-Bromofluorobenzene (surr	17.83	95	293291	23.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.68%	

Target Compounds					Qvalue
2) Ethanol	6.32	45	320	6.78 ug/L	92
13) Acetone	7.11	43	1874	0.50 ug/L #	60
29) Chloroform	10.06	83	19444	0.80 ug/L	94
36) (TAME) tert-Amyl methyl et	11.82	73	9189	0.42 ug/L #	39
43) Trichloroethene	12.36	95	12425	0.99 ug/L	95
44) Bromodichloromethane	12.42	83	1525	0.09 ug/L #	65
57) Tetrachloroethene	15.27	164	10845	1.22 ug/L	94

MT/LG

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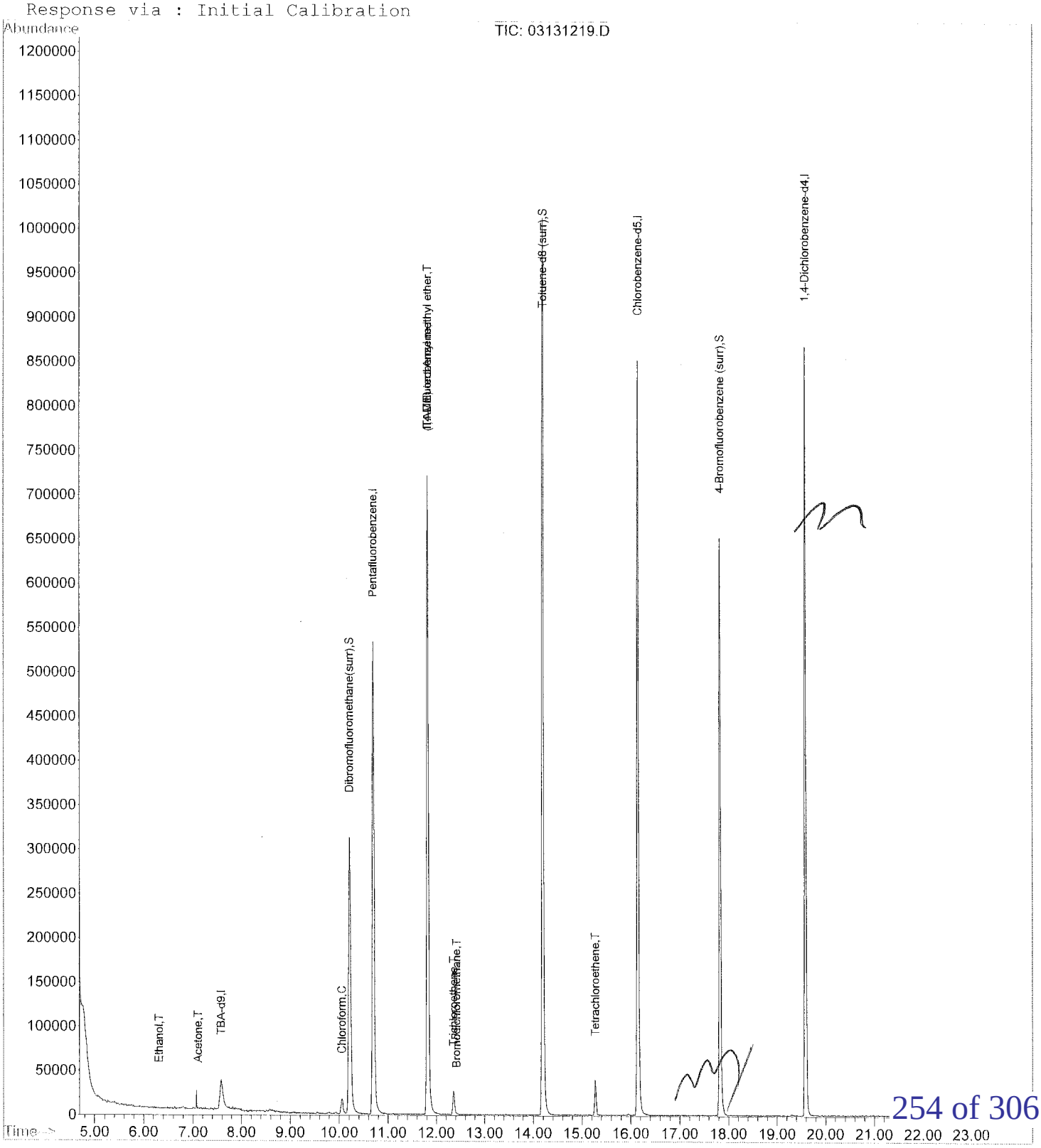
MT 3/15/12

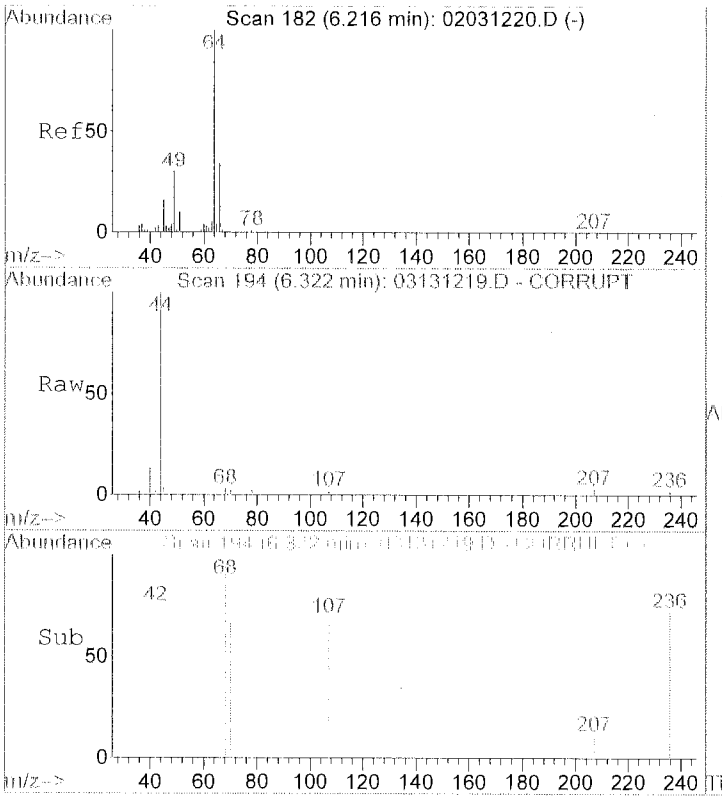
(#) = qualifier out of range (m) = manual integration
03131219.D 031212.M Wed Mar 14 11:26:01 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131219.D Vial: 18
Acq On : 13 Mar 2012 7:09 pm Operator: JH
Sample : PVC0465-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

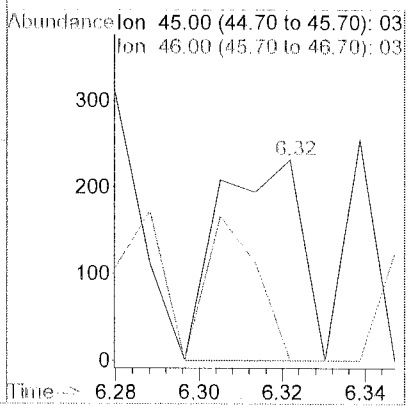


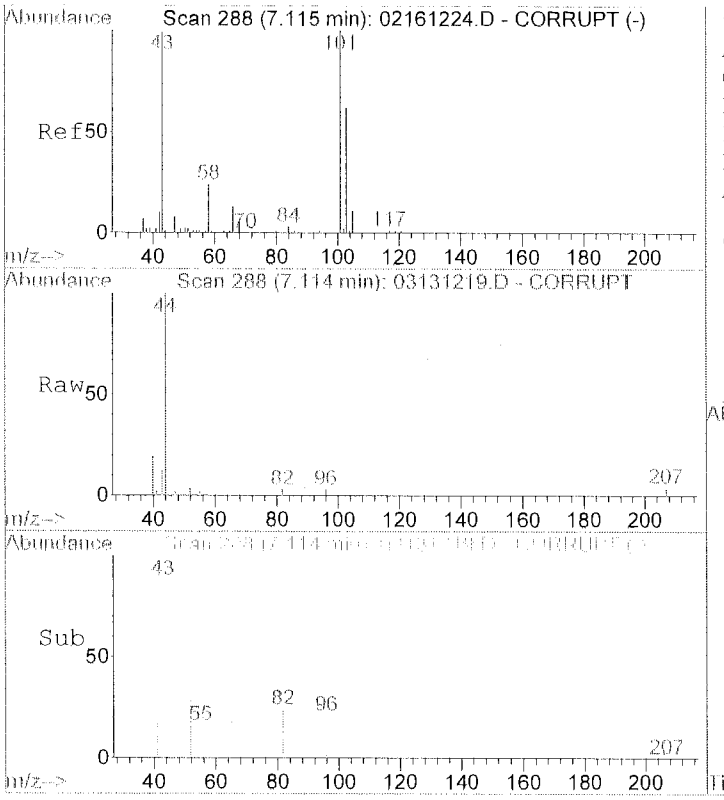


#2
Ethanol
Concen: 6.78 ug/L
RT: 6.32 min Scan# 194
Delta R.T. 0.14 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 45 Resp: 320

Ion	Ratio	Lower	Upper
45	100		
46	44.1	39.8	59.8

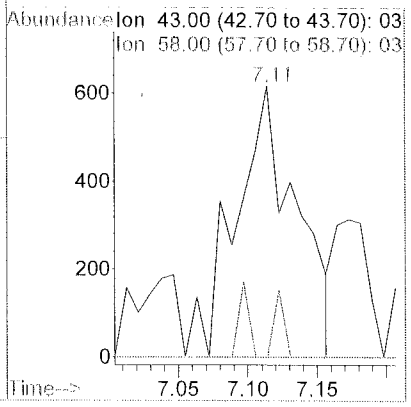


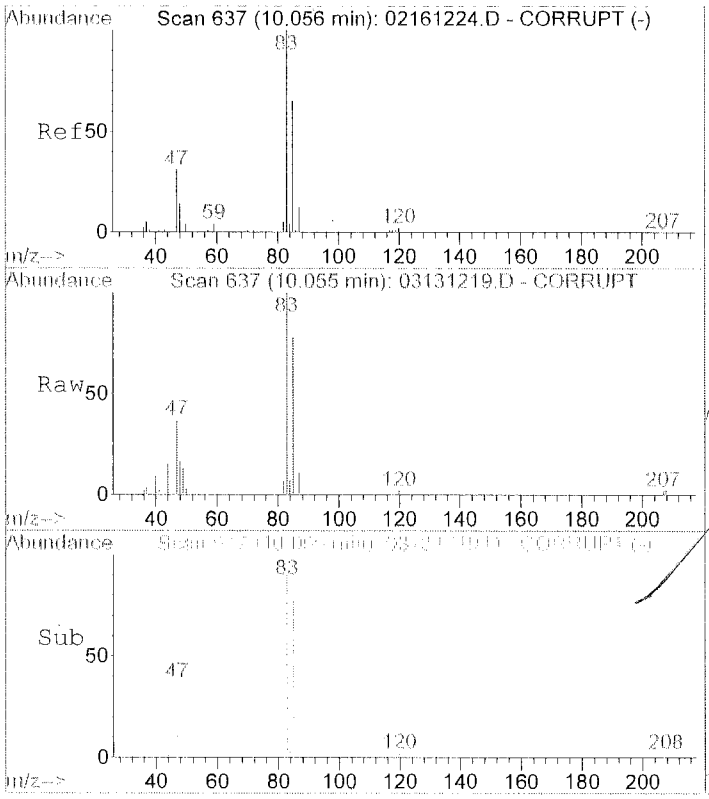


#13
Acetone
Concen: 0.50 ug/L
RT: 7.11 min Scan# 288
Delta R.T. 0.01 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 43 Resp: 1874

Ion	Ratio	Lower	Upper
43	100		
58	4.1	19.1	28.7#

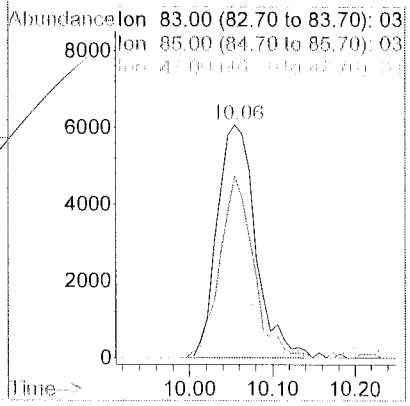




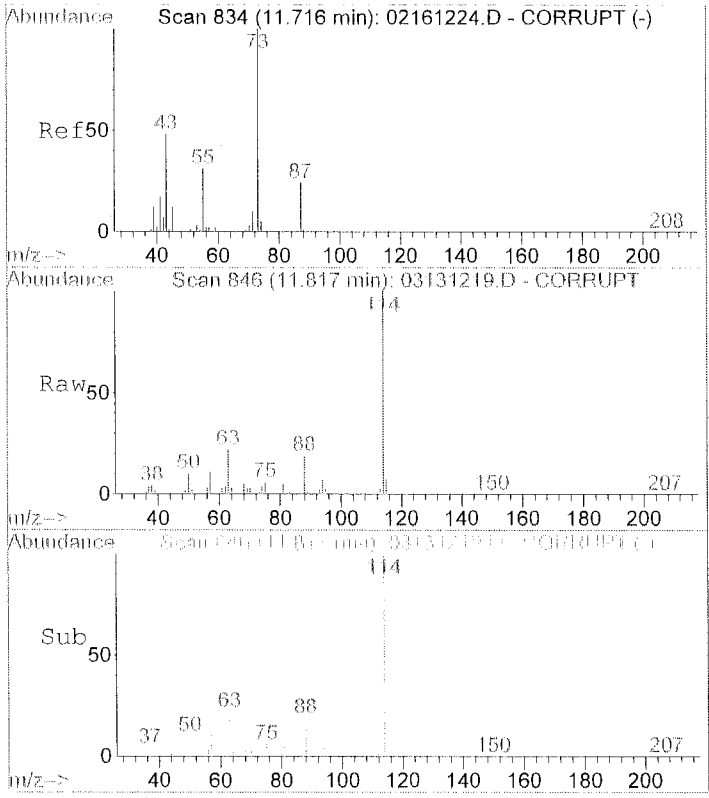
#29
Chloroform
Concen: 0.80 ug/L
RT: 10.06 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 83 Resp: 19444

Ion	Ratio	Lower	Upper
83	100		
85	67.5	52.3	78.5
47	33.5	31.8	47.8



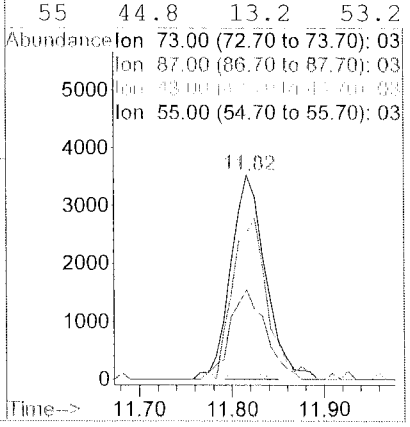
3/14/12

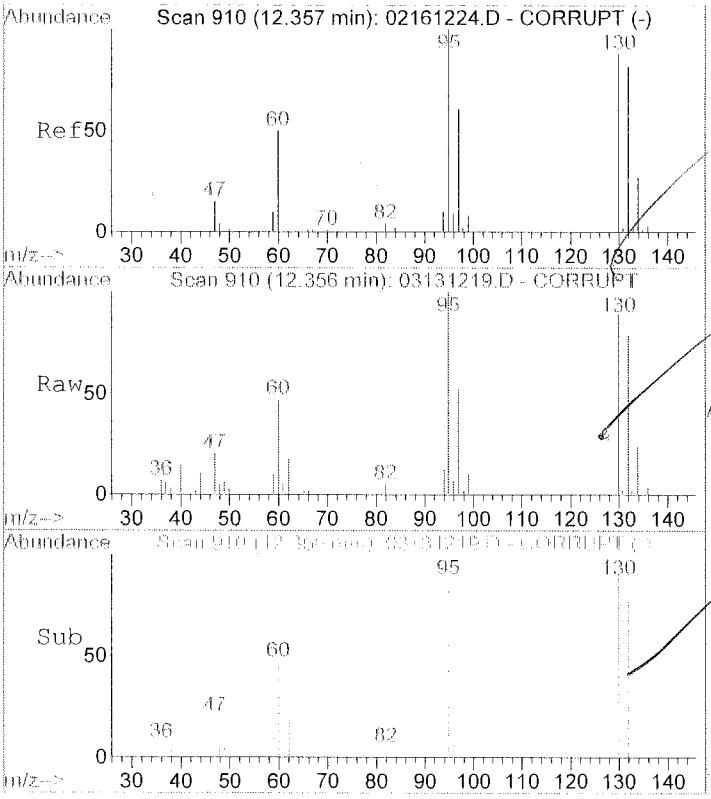


#36
(TAME) tert-Amyl methyl ether
Concen: 0.42 ug/L
RT: 11.82 min Scan# 846
Delta R.T. 0.11 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 73 Resp: 9189

Ion	Ratio	Lower	Upper
73	100		
87	78.8	3.3	43.3#
43	4.5	27.7	67.7#
55	44.8	13.2	53.2

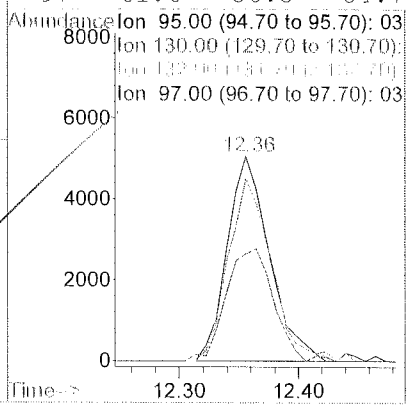


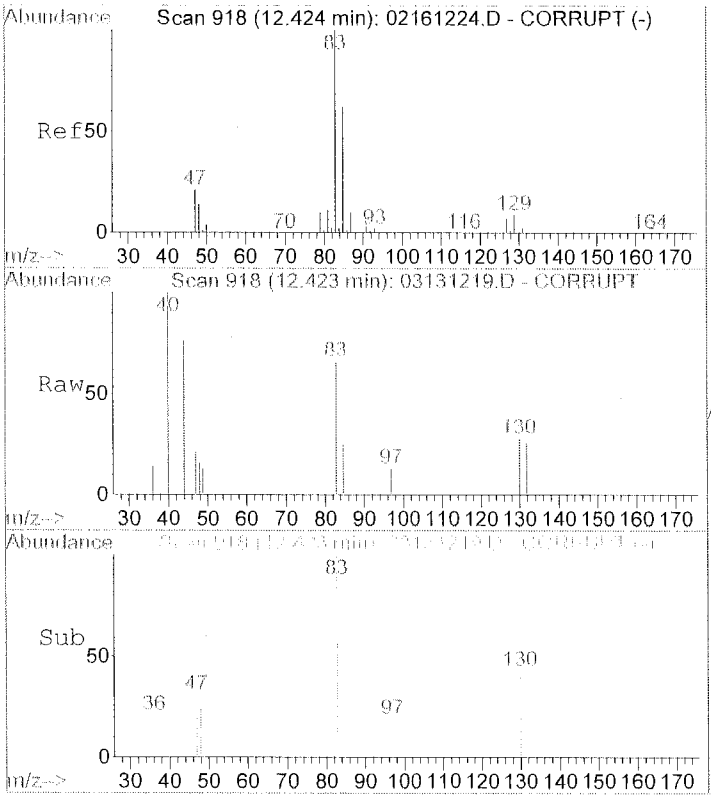


#43
Trichloroethene
Concen: 0.99 ug/L
RT: 12.36 min Scan# 910
Delta R.T. 0.00 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 95 Resp: 12425

Ion	Ratio	Lower	Upper
95	100		
130	91.5	74.2	111.4
132	84.9	71.2	106.8
97	61.6	56.5	84.7

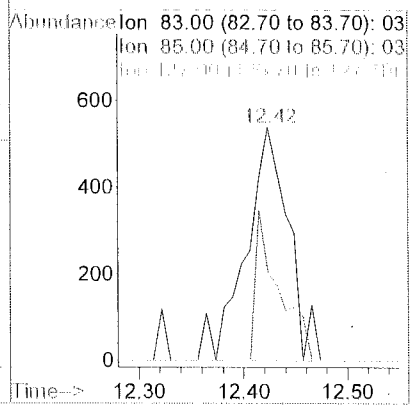




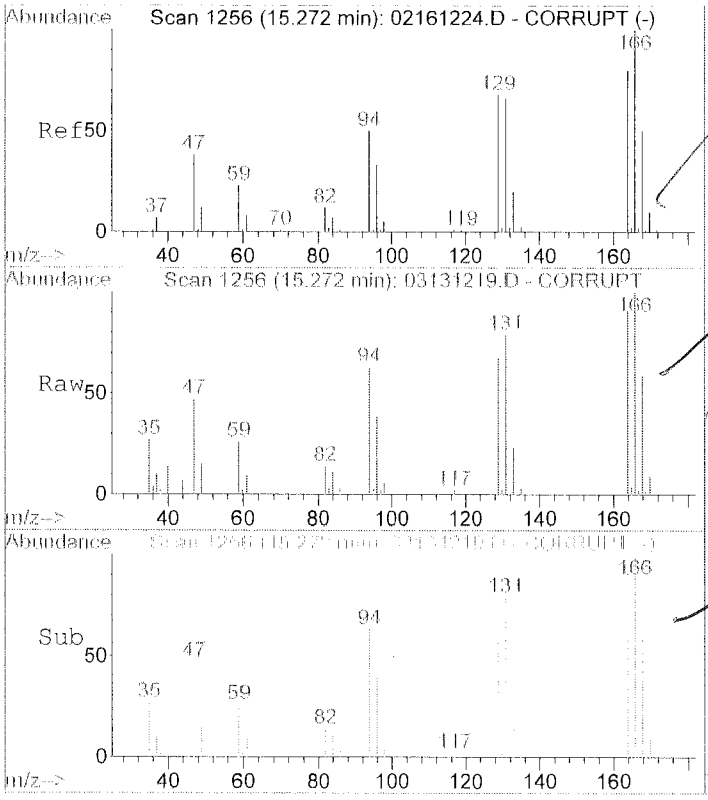
#44
Bromodichloromethane
Concen: 0.09 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.00 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion: 83 Resp: 1525

Ion	Ratio	Lower	Upper
83	100		
85	35.3	51.4	77.0#
127	0.0	6.6	9.8#



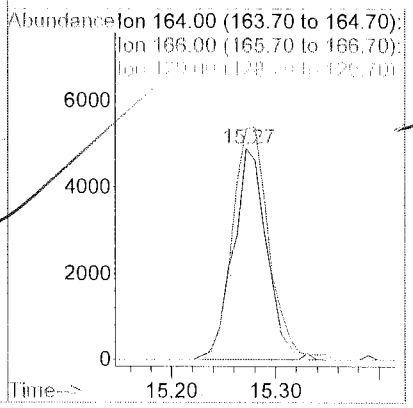
3/14/12



#57
Tetrachloroethene
Concen: 1.22 ug/L
RT: 15.27 min Scan# 1256
Delta R.T. -0.00 min
Lab File: 03131219.D
Acq: 13 Mar 2012 7:09 pm

Tgt Ion:164 Resp: 10845

Ion	Ratio	Lower	Upper
164	100		
166	120.4	103.3	154.9
129	86.3	72.7	109.1



3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131220.D Vial: 19
Acq On : 13 Mar 2012 7:40 pm Operator: JH
Sample : PVC0465-03 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:26 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	77774	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	450321	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	735281	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	606818	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	263335	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	283282	26.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.40%	
50) Toluene-d8 (surr)	14.19	98	824804	25.06 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.24%	
64) 4-Bromofluorobenzene (surr	17.82	95	291680	23.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.88%	

Target Compounds					Qvalue
2) Ethanol	6.23	45	722	14.85 ug/L #	28
13) Acetone	7.09	43	1457	0.40 ug/L #	51
29) Chloroform	10.05	83	24244	1.02 ug/L #	95
36) (TAME) tert-Amyl methyl et	11.82	73	8469	0.40 ug/L #	36
44) Bromodichloromethane	12.42	83	1688	0.11 ug/L #	90
57) Tetrachloroethene	15.28	164	7214	0.81 ug/L	91

NT/MM

NT/MM

3/14/12

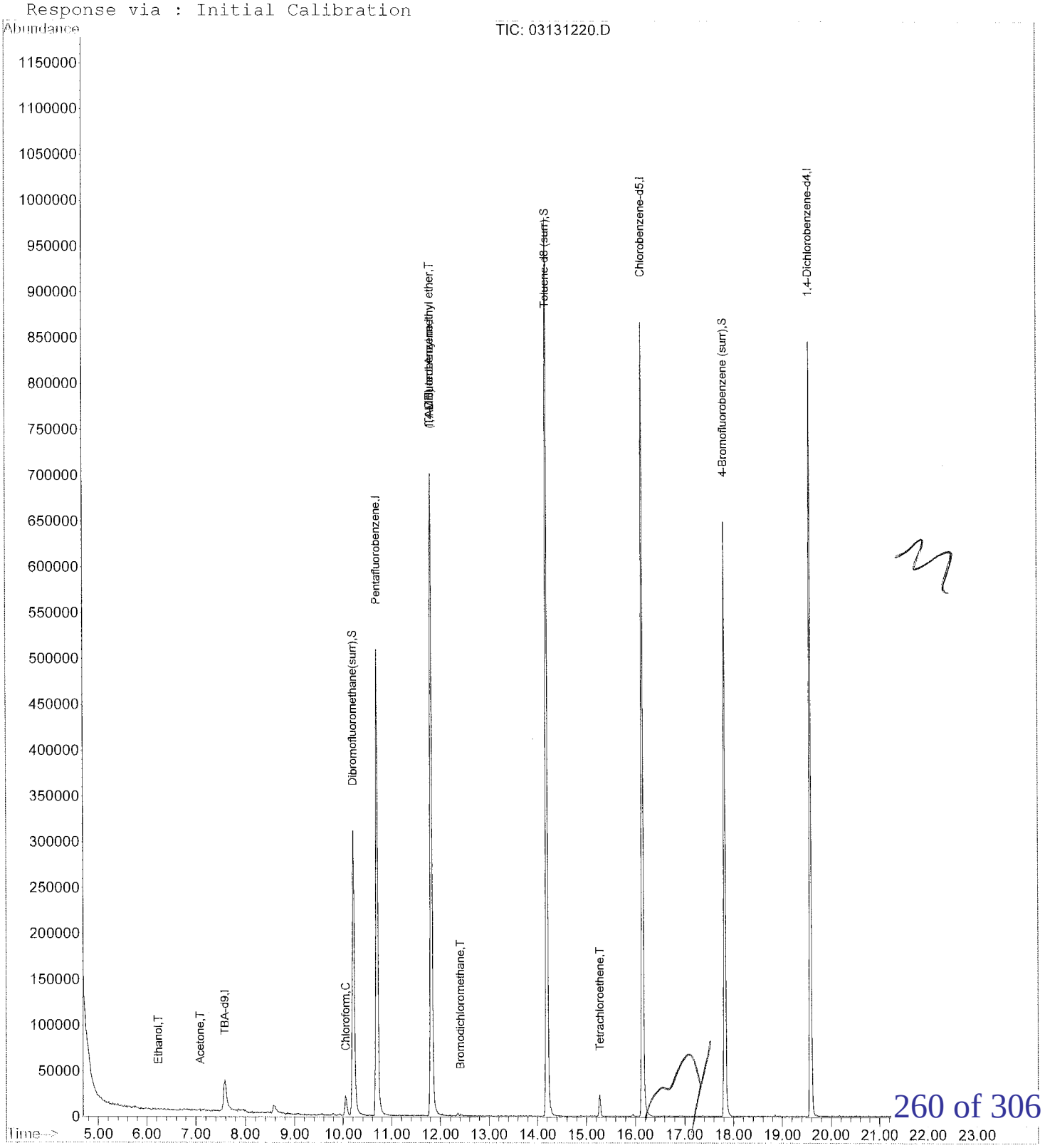
3/15/12

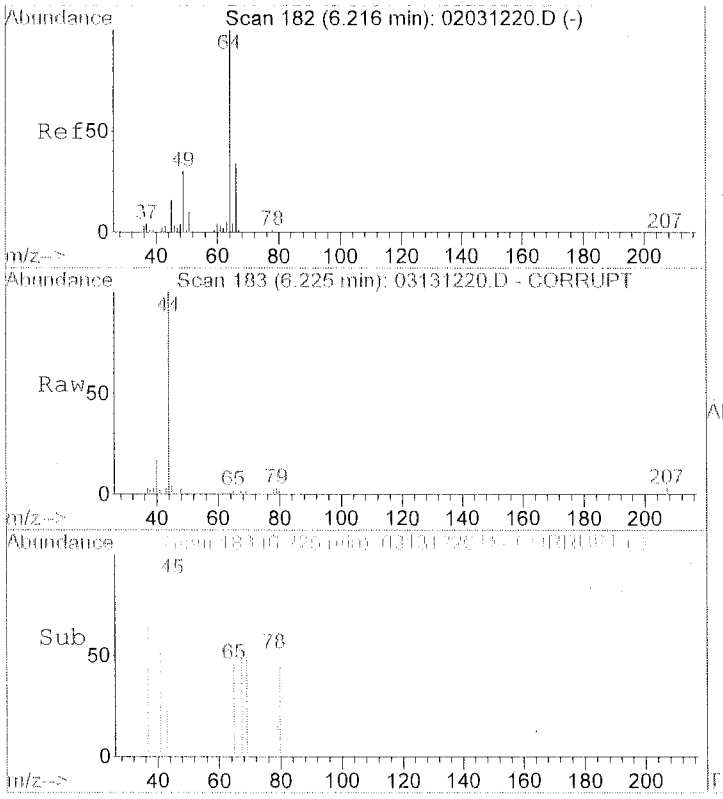
(#) = qualifier out of range (m) = manual integration
03131220.D 031212.M Wed Mar 14 11:26:22 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131220.D Vial: 19
Acq On : 13 Mar 2012 7:40 pm Operator: JH
Sample : PVC0465-03 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:26 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

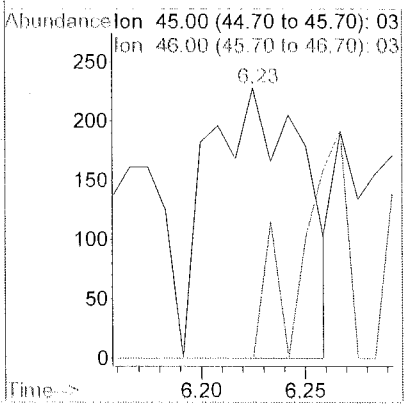


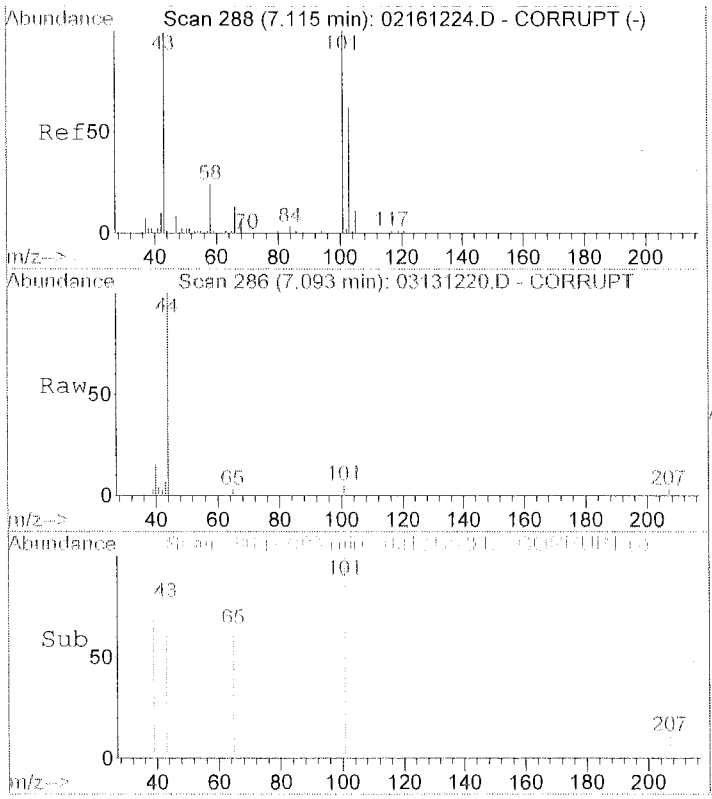


#2
Ethanol
Concen: 14.85 ug/L
RT: 6.23 min Scan# 183
Delta R.T. 0.04 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion: 45 Resp: 722

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.8	59.8#

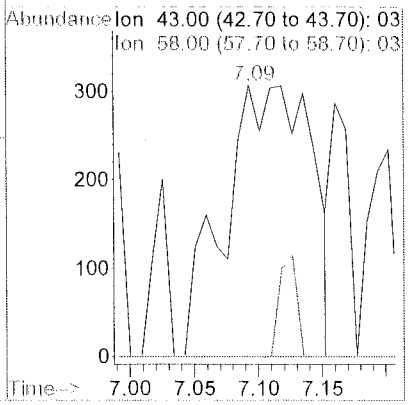


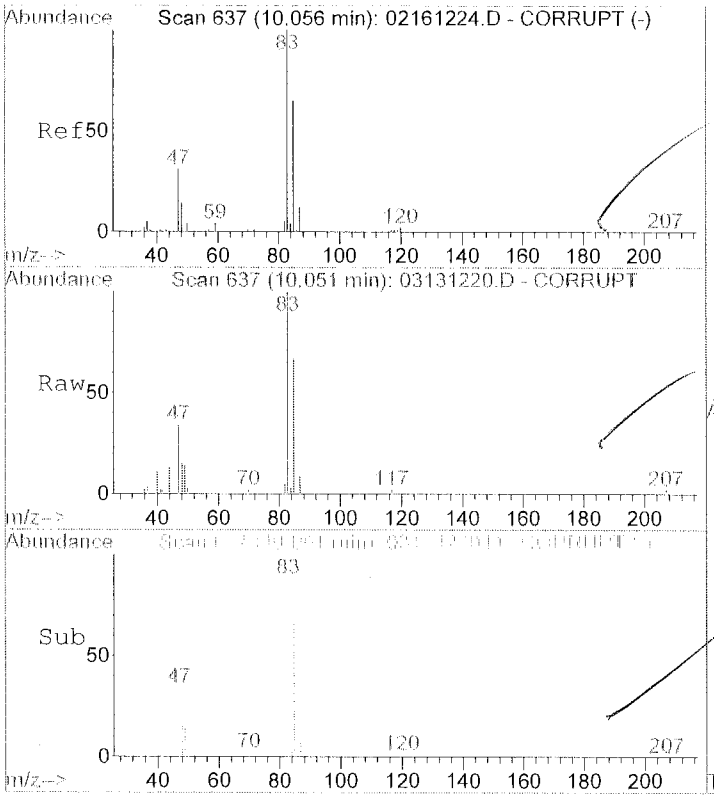


#13
Acetone
Concen: 0.40 ug/L
RT: 7.09 min Scan# 286
Delta R.T. -0.02 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion: 43 Resp: 1457

Ion	Ratio	Lower	Upper
43	100		
58	0.0	19.1	28.7#

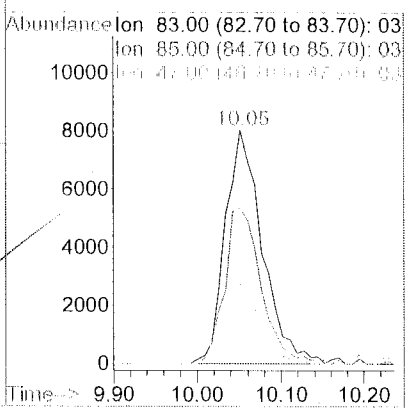


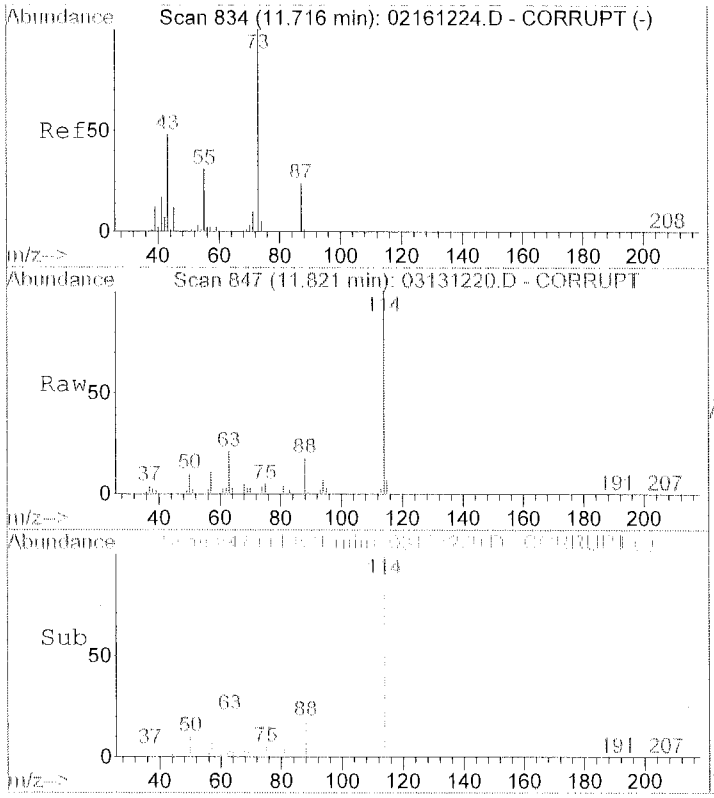


#29
Chloroform
Concen: 1.02 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion: 83 Resp: 24244

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.3	78.5
47	31.6	31.8	47.8#

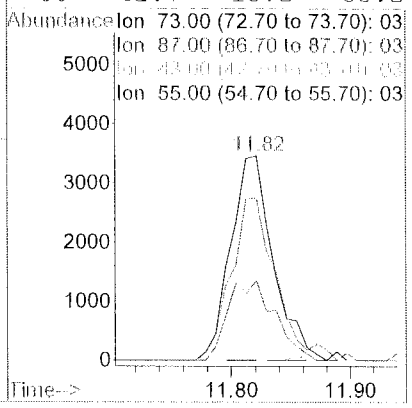


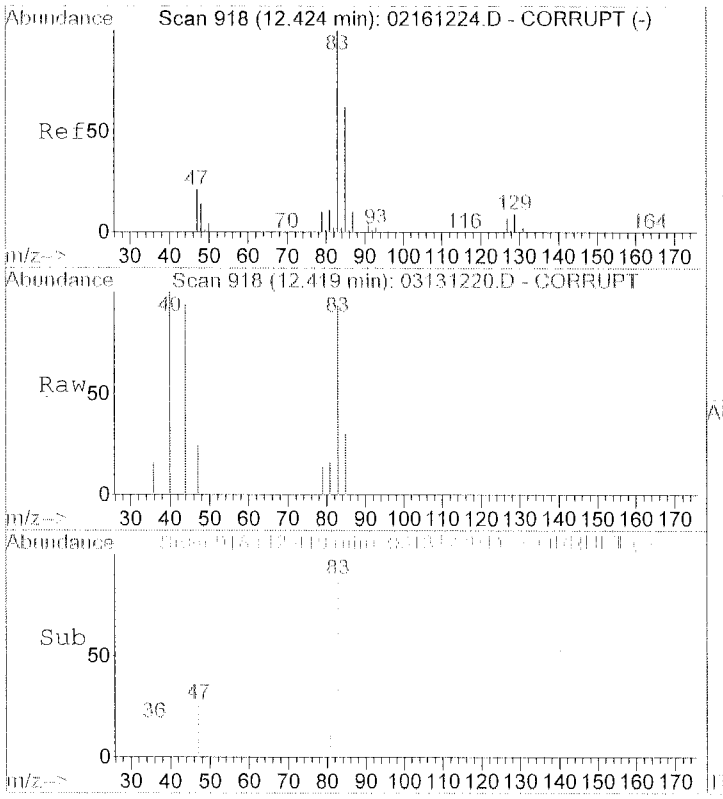


#36
(TAME) tert-Amyl methyl ether 3/14/12
Concen: 0.40 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.11 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion: 73 Resp: 8469

Ion	Ratio	Lower	Upper
73	100		
87	83.3	3.3	43.3#
43	2.2	27.7	67.7#
55	42.7	13.2	53.2

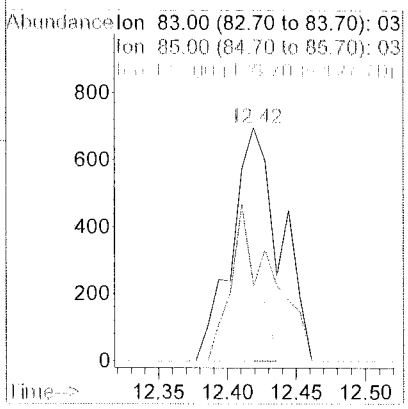


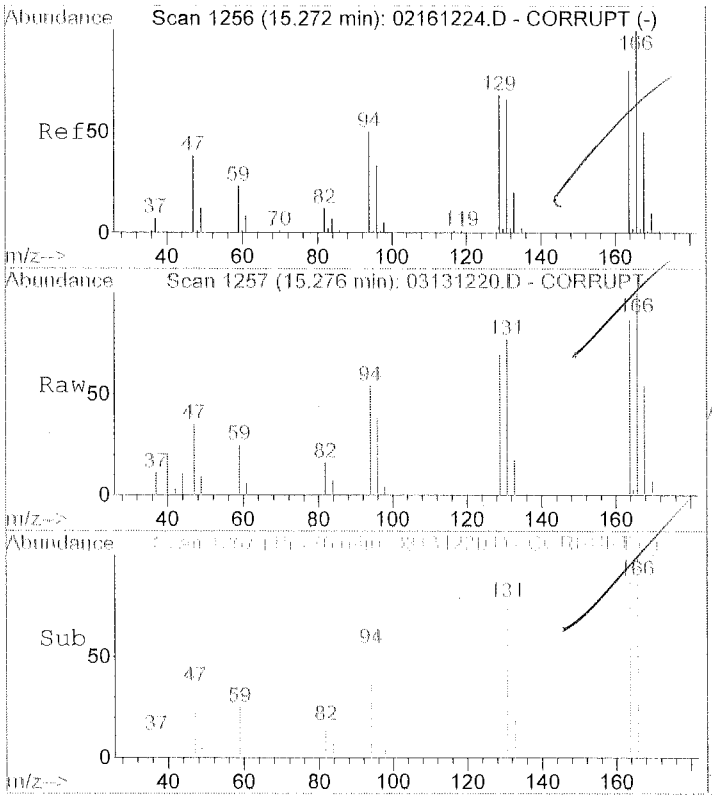


#44
Bromodichloromethane
Concen: 0.11 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.00 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion: 83 Resp: 1688

Ion	Ratio	Lower	Upper
83	100		
85	56.4	51.4	77.0
127	5.4	6.6	9.8#

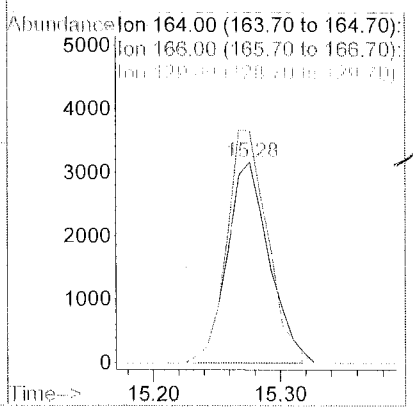




#57
Tetrachloroethene
Concen: 0.81 ug/L
RT: 15.28 min Scan# 1257
Delta R.T. 0.00 min
Lab File: 03131220.D
Acq: 13 Mar 2012 7:40 pm

Tgt Ion:164 Resp: 7214

Ion	Ratio	Lower	Upper
164	100		
166	112.8	103.3	154.9
129	88.2	72.7	109.1



3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131221.D Vial: 20
Acq On : 13 Mar 2012 8:13 pm Operator: JH
Sample : PVC0465-04 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:26 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	75008	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	455240	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	743503	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	615480	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	266173	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	285970	26.07 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.28%	
50) Toluene-d8 (surr)	14.19	98	837497	25.16 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.64%	
64) 4-Bromofluorobenzene (surr	17.82	95	296887	23.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.20%	

Target Compounds					Qvalue
2) Ethanol	6.24	45	297	6.33 ug/L	94
3) tert-Butanol (TBA)	7.82	59	77	0.12 ug/L #	80
13) Acetone	7.11	43	2056	0.55 ug/L #	60
29) Chloroform	10.05	83	23651	0.98 ug/L	95
33) Tetrahydrofuran	10.38	72	63	0.11 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.82	73	8480	0.40 ug/L #	39
43) Trichloroethene	12.36	95	1345	0.11 ug/L	89
44) Bromodichloromethane	12.42	83	1747	0.11 ug/L #	82
57) Tetrachloroethene	15.27	164	6092	0.67 ug/L	86

NT/hh

NT/hh

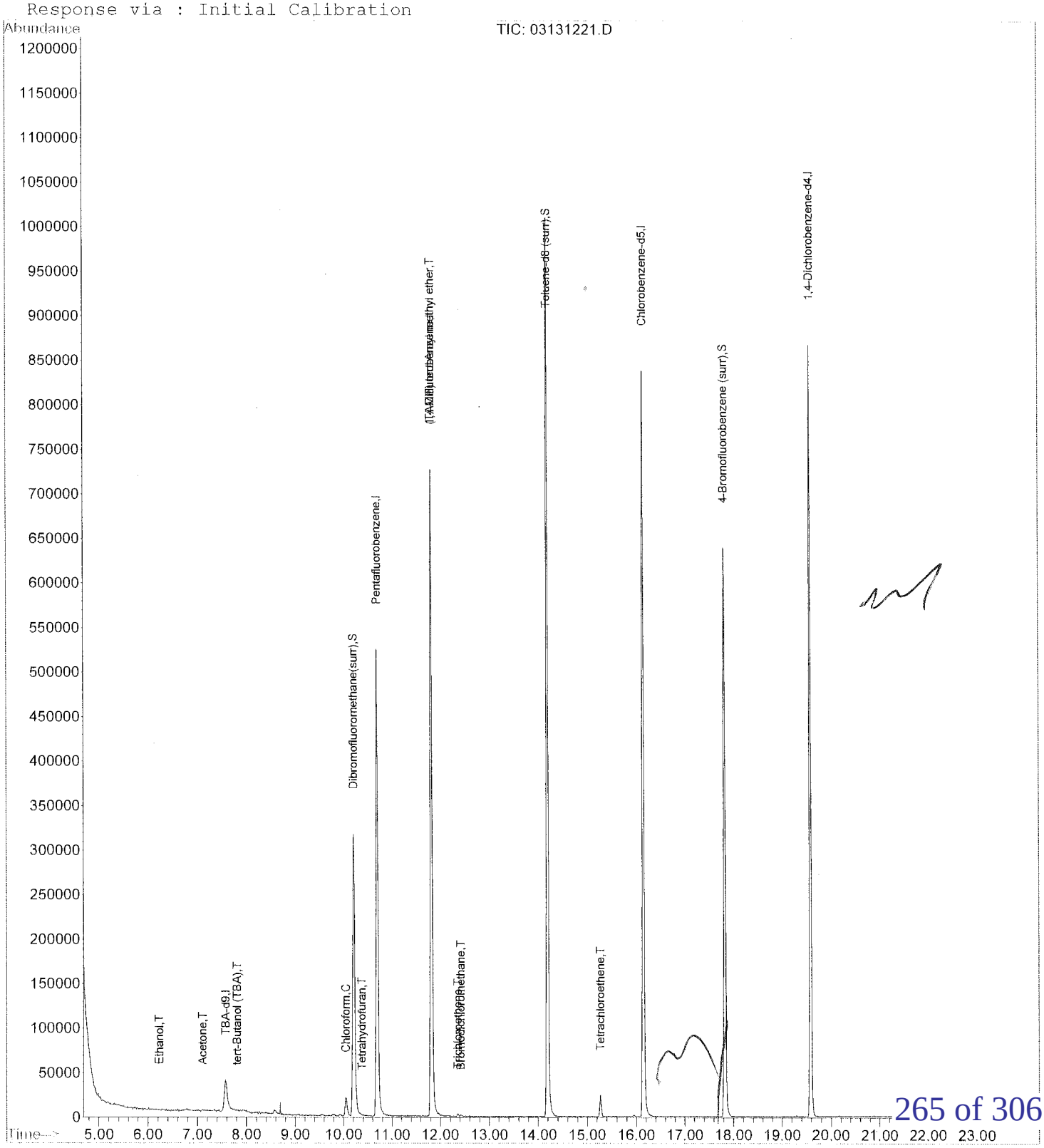
3/14/12

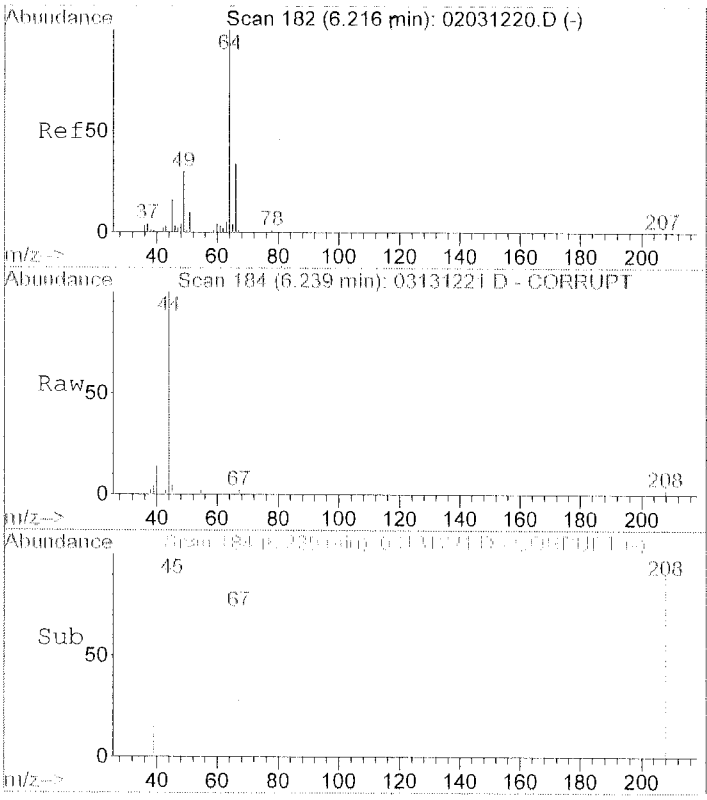
(#) = qualifier out of range (m) = manual integration
03131221.D 031212.M Wed Mar 14 11:27:04 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131221.D Vial: 20
Acq On : 13 Mar 2012 8:13 pm Operator: JH
Sample : PVC0465-04 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:26 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

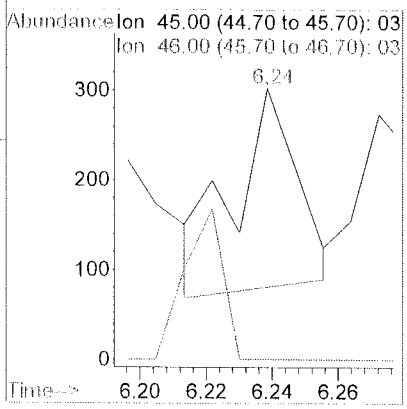


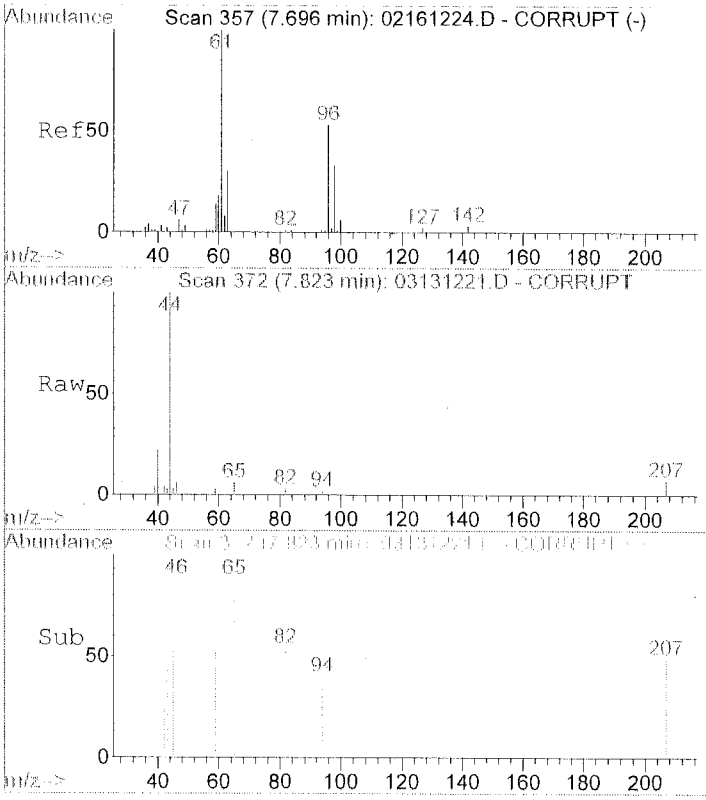


#2
Ethanol
Concen: 6.33 ug/L
RT: 6.24 min Scan# 184
Delta R.T. 0.06 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 45 Resp: 297

Ion	Ratio	Lower	Upper
45	100		
46	45.8	39.8	59.8

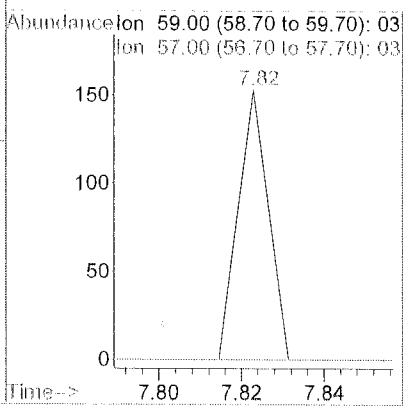


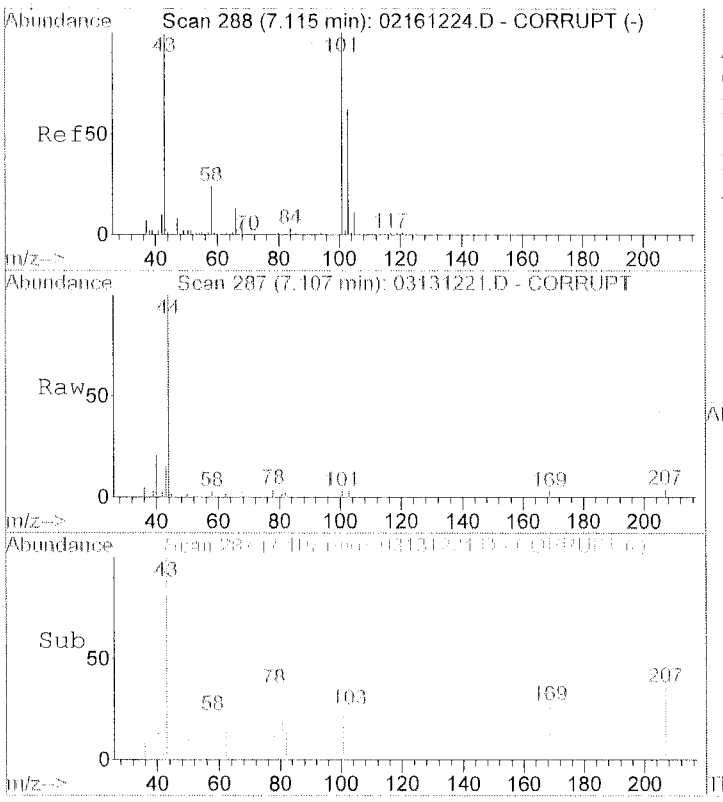


#3
tert-Butanol (TBA)
Concen: 0.12 ug/L
RT: 7.82 min Scan# 372
Delta R.T. 0.14 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 59 Resp: 77

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

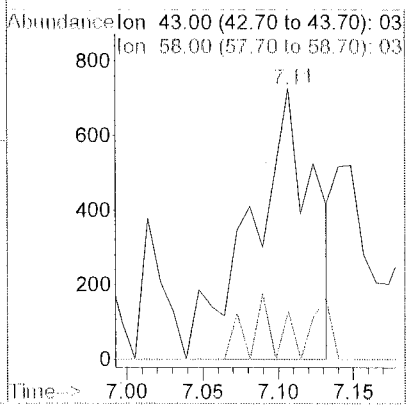




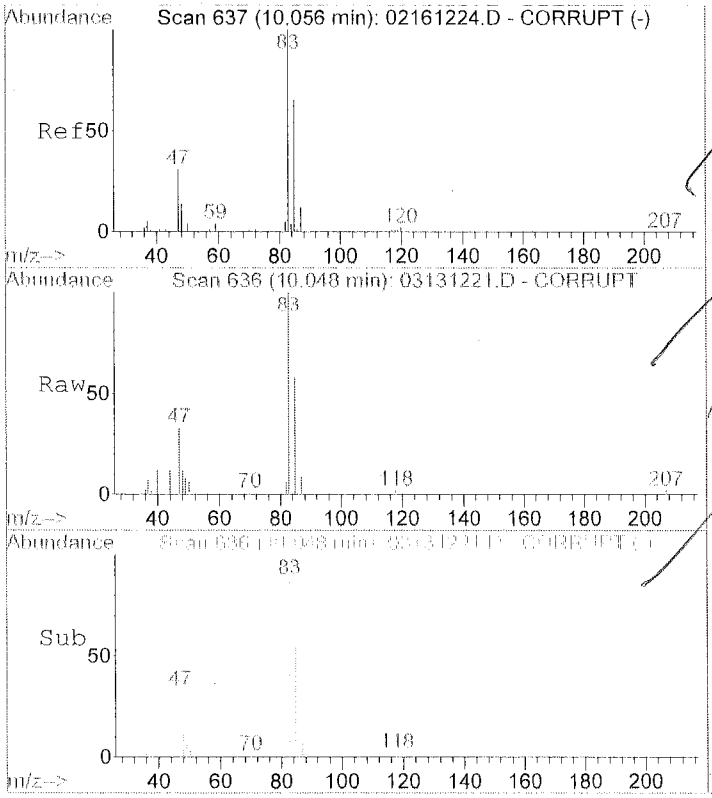
#13
Acetone
Concen: 0.55 ug/L
RT: 7.11 min Scan# 287
Delta R.T. -0.00 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 43 Resp: 2056

Ion	Ratio	Lower	Upper
43	100		
58	4.3	19.1	28.7#



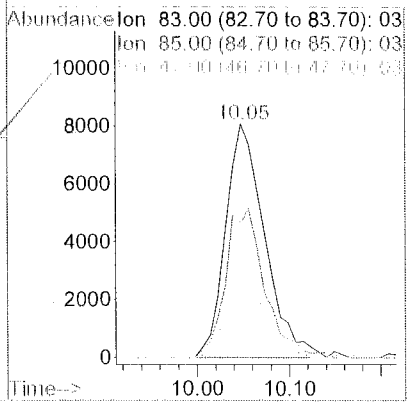
3/14/12

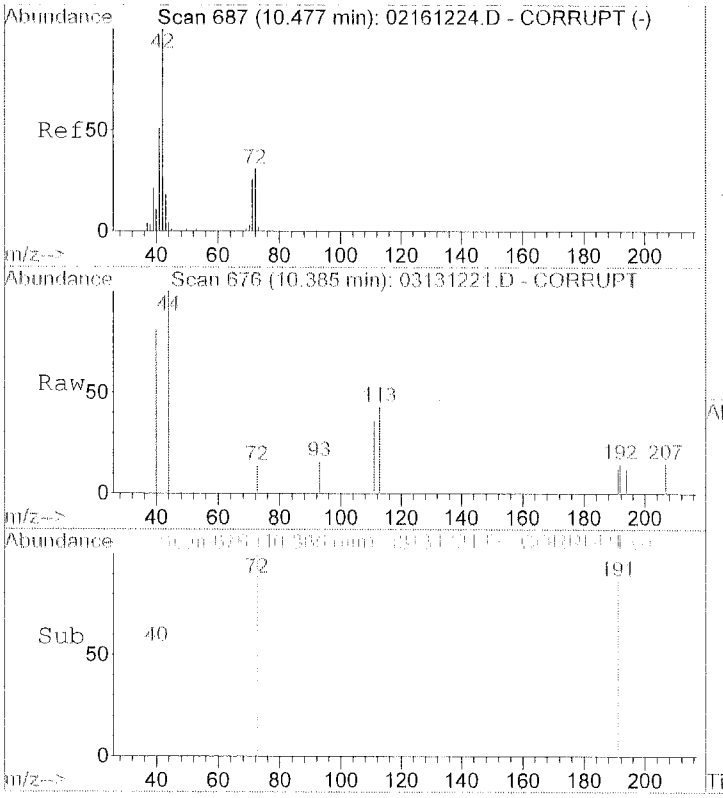


#29
Chloroform
Concen: 0.98 ug/L
RT: 10.05 min Scan# 636
Delta R.T. -0.00 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 83 Resp: 23651

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.3	78.5
47	33.1	31.8	47.8

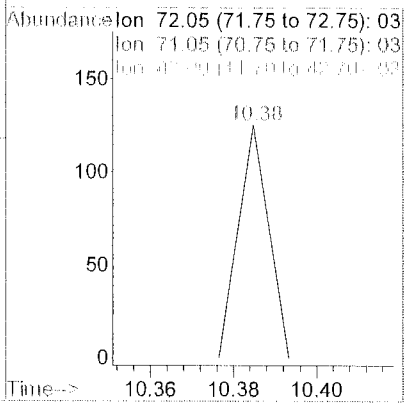


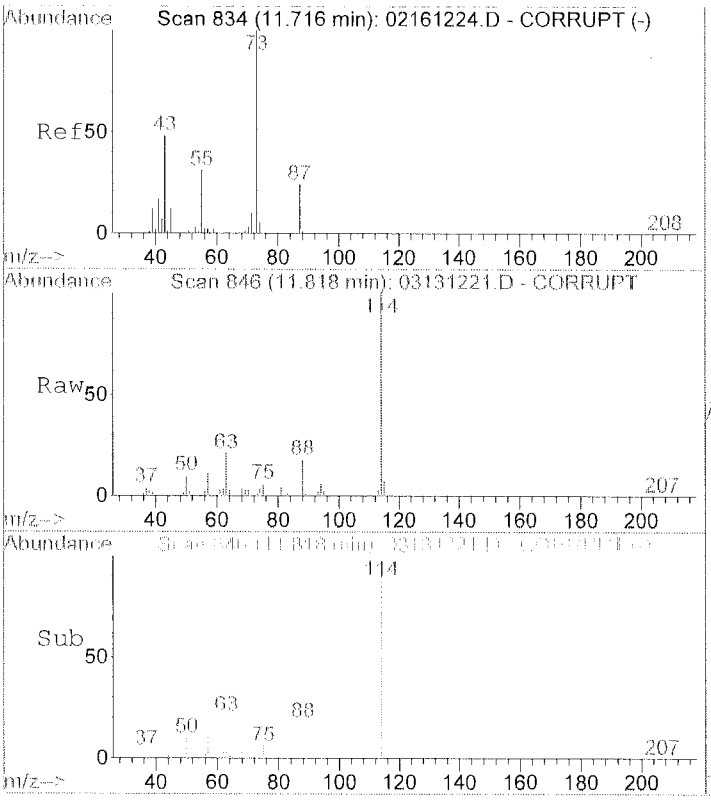


#33
Tetrahydrofuran
Concen: 0.11 ug/L
RT: 10.38 min Scan# 676
Delta R.T. -0.09 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 72 Resp: 63

Ion	Ratio	Lower	Upper
72	100		
71	0.0	74.4	114.4#
42	0.0	318.4	358.4#

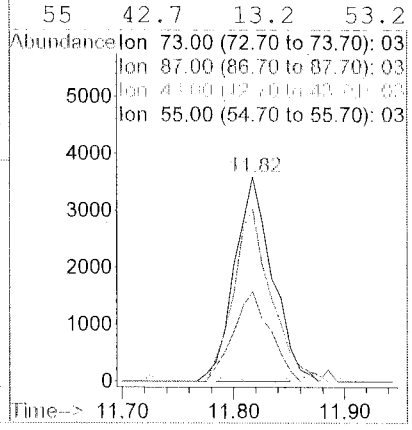


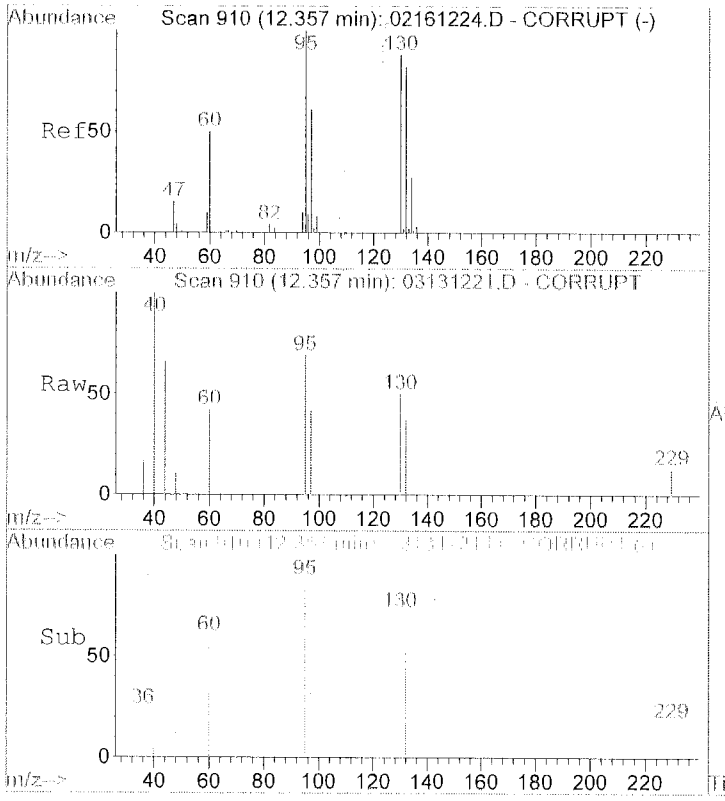


#36
(TAME) tert-Amyl methyl ether
Concen: 0.40 ug/L
RT: 11.82 min Scan# 846
Delta R.T. 0.11 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 73 Resp: 8480

Ion	Ratio	Lower	Upper
73	100		
87	83.8	3.3	43.3#
43	6.5	27.7	67.7#
55	42.7	13.2	53.2

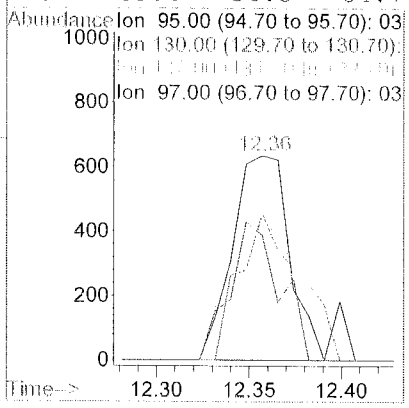


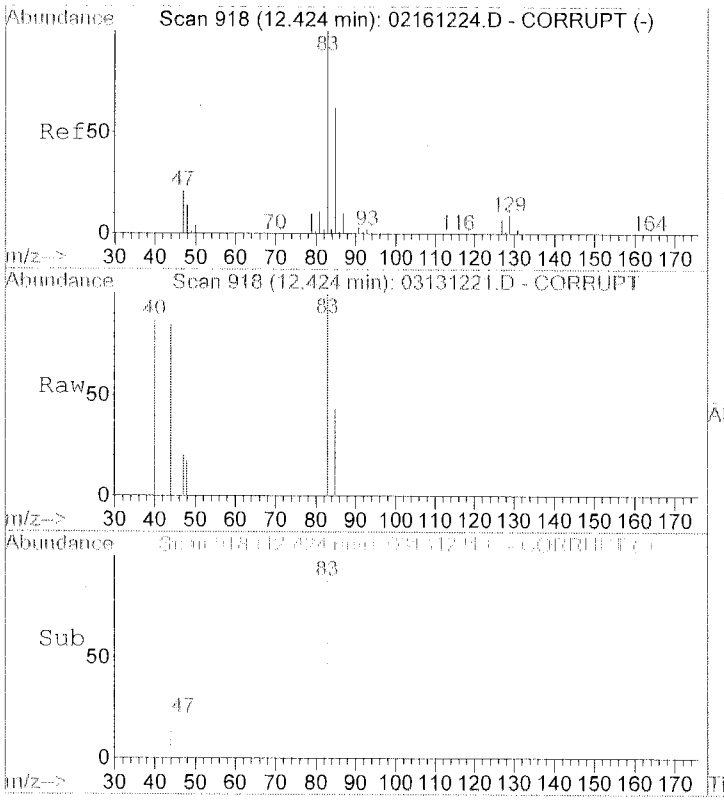


#43
Trichloroethene
Concen: 0.11 ug/L
RT: 12.36 min Scan# 910
Delta R.T. 0.01 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 95 Resp: 1345

Ion	Ratio	Lower	Upper
95	100		
130	76.4	74.2	111.4
132	87.2	71.2	106.8
97	59.6	56.5	84.7

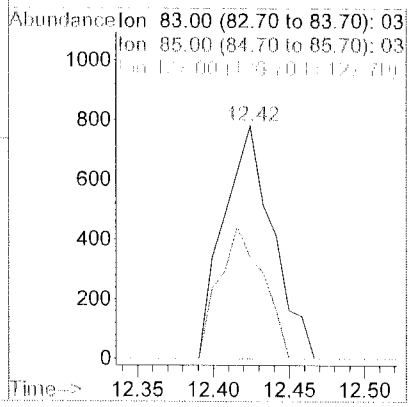


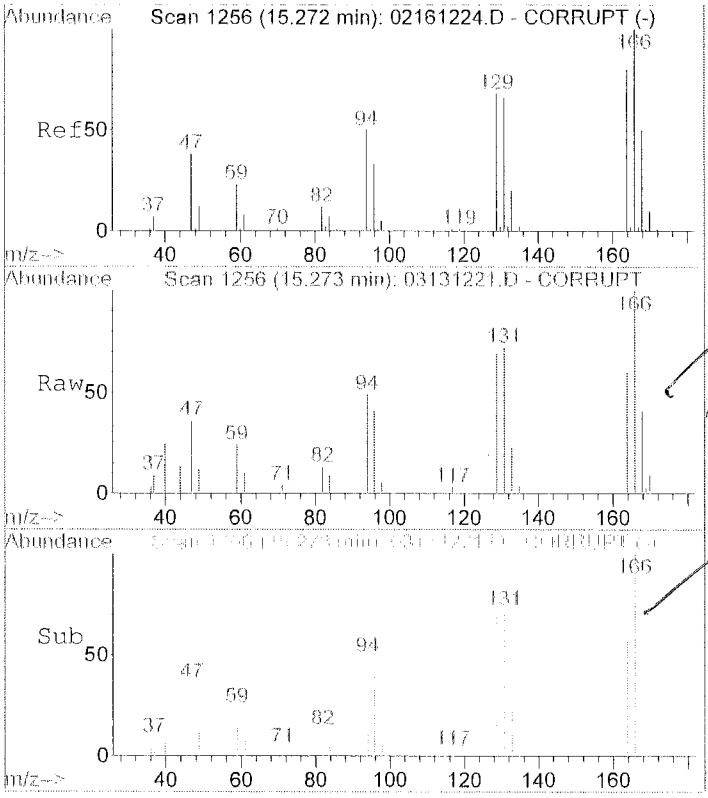


#44
Bromodichloromethane
Concen: 0.11 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.01 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion: 83 Resp: 1747

Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.4	77.0#
127	0.0	6.6	9.8#

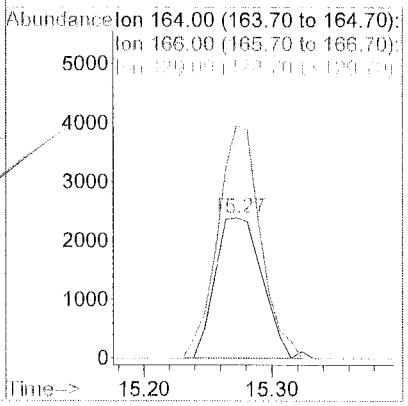




#57
Tetrachloroethene
Concen: 0.67 ug/L
RT: 15.27 min Scan# 1256
Delta R.T. -0.00 min
Lab File: 03131221.D
Acq: 13 Mar 2012 8:13 pm

Tgt Ion:164 Resp: 6092

Ion	Ratio	Lower	Upper
164	100		
166	150.3	103.3	154.9
129	98.9	72.7	109.1



3/14/12

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV01459

Description:	8260 50ppm SS	Expires:	03/19/12
Standard Type:	Analyte Spike	Prepared:	03/07/12
Solvent:	MeOH/114965	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:58 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU04379	SS 1,3-Butadiene (2000ug/mL)	01/29/12	Marbella Mazza	07/29/12	01/29/12 09:30 by MNM	0.05
PU06182	SS Custom 8260 Mix	02/03/12	Marbella Mazza	08/02/12	02/03/12 04:30 by MNM	0.05
PU07321	SS 54 Compounds (O2SI)	02/22/12	Jing Hu	08/22/12	03/07/12 05:57 by MNM	0.05
PU07965	8260 Gases O2SI	03/05/12	Kaycee Halla	03/19/12	03/05/12 15:37 by MS	0.05
PU07970	2-Chloroethyl vinyl ether	02/15/12	Jing Hu	08/15/12	02/15/12 12:34 by J H	0.05
PU07976	O2SI Additions	02/07/12	Marbella Mazza	03/28/12	02/07/12 06:02 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Description:	8260 50ppm SS	Expires:	03/19/12
Standard Type:	Analyte Spike	Prepared:	03/07/12
Solvent:	MeOH/114965	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:58 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU04379	SS 1,3-Butadiene (2000ug/mL)	01/29/12	Marbella Mazza	07/29/12	01/29/12 09:30 by MNM	0.05
PU06182	SS Custom 8260 Mix	02/03/12	Marbella Mazza	08/02/12	02/03/12 04:30 by MNM	0.05
PU07321	SS 54 Compounds (O2SI)	02/22/12	Jing Hu	08/22/12	03/07/12 05:57 by MNM	0.05
PU07965	8260 Gases O2SI	03/05/12	Kaycee Halla	03/19/12	03/05/12 15:37 by MS	0.05
PU07970	2-Chloroethyl vinyl ether	02/15/12	Jing Hu	08/15/12	02/15/12 12:34 by J H	0.05
PU07976	O2SI Additions	02/07/12	Marbella Mazza	03/28/12	02/07/12 06:02 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06182

Description:	SS Custom 8260 Mix	Expires:	08/02/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 04:30 by MNM

O2SI Catalog # 122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07321

Description:	SS 54 Compounds (O2SI)	Expires:	08/22/12
Standard Type:	Other	Prepared:	02/22/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:57 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07321

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07965

Description:	8260 Gases O2SI	Expires:	03/19/12
Standard Type:	Other	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 15:37 by MS

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07970

Description:	2-Chloroethyl vinyl ether	Expires:	08/15/12
Standard Type:	Other	Prepared:	02/15/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/15/12 12:34 by J H

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07976

Description:	O2SI Additions	Expires:	03/28/12
Standard Type:	Other	Prepared:	02/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/07/12 06:02 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01311

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	03/29/12
Standard Type:	Analyte Spike	Prepared:	02/29/12
Solvent:	MEOH/113540	Prepared By:	Jing Hu
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/29/12 15:15 by J H

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05455	SS Ethanol 20000ppm	01/24/12	Marbella Mazza	07/24/12	01/24/12 13:21 by MNM	0.05
PU06454	O2SI tert-butyl alcohol	12/02/11	Kaycee Halla	06/02/12	01/17/12 12:45 by MS	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05455

Description:	SS Ethanol 20000ppm	Expires:	07/24/12
Standard Type:	Other	Prepared:	01/24/12
Solvent:	MEOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/24/12 13:21 by MNM

Description: Ethanol, 20000ppm
CAT# 020202-02-SS

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06454

Description:	O2SI tert-butyl alcohol	Expires:	06/02/12
Standard Type:	Analyte Spike	Prepared:	12/02/11
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/17/12 12:45 by MS

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00965

Description:	25 ppm 4-BFB	Expires:	03/14/12
Standard Type:	MS Tune Soluti	Prepared:	02/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/14/12 06:37 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03145	4-Bromofluorobenzene	02/14/12	Marbella Mazza	08/14/12	02/14/12 06:30 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03145

Description:	4-Bromofluorobenzene	Expires:	08/14/12
Standard Type:	Other	Prepared:	02/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/14/12 06:30 by MNM

Catalog # STS-110N

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01506

Description:	8260 50 ppm CCV (No Surr.)	Expires:	03/12/12
Standard Type:	Analyte Spike	Prepared:	03/08/12
Solvent:	MeOH/114965	Prepared By:	Jing Hu
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 13:07 by J H

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
Chloroform	67-66-3	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

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Analytical Standard Record

TestAmerica Phoenix

PV01506

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
Chloromethane	74-87-3	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
Chloroethane	75-00-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
MTBE	1634-04-4	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm
Dibromochloromethane	124-48-1	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01506

Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Hexane	110-54-3	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
Vinyl chloride	75-01-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03589	PS Custom 8260 Mix	02/07/12	Kaycee Halla	08/07/12	02/09/12 13:16 by MNM	0.05
PU03860	2-Chloroethyl vinyl ether	02/03/12	Kaycee Halla	08/02/12	02/03/12 12:50 by KH	0.02
PU05153	Restek Additions (w/o V.A.)	01/04/12	Kaycee Halla	07/04/12	01/04/12 07:40 by KH	0.05
PU05932	PS 54 Compounds (Absolute)	02/03/12	Kaycee Halla	08/03/12	02/03/12 12:51 by KH	0.05
PU06511	Crescent Vinyl acetate	01/04/12	Kaycee Halla	07/04/12	01/04/12 07:41 by KH	0.05
PU07090	PS 1,3-Butadiene	01/17/12	Kaycee Halla	07/17/12	01/17/12 07:13 by MS	0.05
PV01260	Crescent Gases	03/05/12	Marbella Mazza	03/12/12	03/05/12 06:21 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03589

Description:	PS Custom 8260 Mix	Expires:	08/07/12
Standard Type:	Other	Prepared:	02/07/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/09/12 13:16 by MNM

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03860

Description:	2-Chloroethyl vinyl ether	Expires:	08/02/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 12:50 by KH

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05153

Description:	Restek Additions (w/o V.A.)	Expires:	07/04/12
Standard Type:	Other	Prepared:	01/04/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/04/12 07:40 by KH

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05932

Description:	PS 54 Compounds (Absolute)	Expires:	08/03/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 12:51 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05932

trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
Trichloroethene	79-01-6	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06511

Description:	Crescent Vinyl acetate	Expires:	07/04/12
Standard Type:	Other	Prepared:	01/04/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/04/12 07:41 by KH

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07090

Description:	PS 1,3-Butadiene	Expires:	07/17/12
Standard Type:	Other	Prepared:	01/17/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/17/12 07:13 by MS

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01260

Description:	Crescent Gases	Expires:	03/12/12
Standard Type:	Other	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 06:21 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01212

Description:	500ppm Ethanol/ 250ppmTBA	Expires:	03/24/12
Standard Type:	Calibration Stan	Prepared:	02/24/12
Solvent:	Methanol/114965	Prepared By:	Melissa Spencer
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/24/12 06:24 by MS

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03901	Ethanol 20000ppm (Absolute)	12/21/11	Melissa Spencer	06/21/12	12/21/11 07:08 by MS	0.05
PU07318	Crescent TBA	02/09/12	Marbella Mazza	08/09/12	02/09/12 05:51 by MNM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03901

Description:	Ethanol 20000ppm (Absolute)	Expires:	06/21/12
Standard Type:	Other	Prepared:	12/21/11
Solvent:	MEOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	12/21/11 07:08 by MS

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07318

Description:	Crescent TBA	Expires:	08/09/12
Standard Type:	Other	Prepared:	02/09/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/09/12 05:51 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01488

Description:	8260/624 IS/Surrogate Mix (Archon)	Expires:	04/08/12
Standard Type:	Surrogate Spike	Prepared:	03/08/12
Solvent:	MeOH/114965	Prepared By:	Jing Hu
Final Volume (mls):	5	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 09:20 by J H

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	250	ug/mL
TBA-d9		2000	ug/mL
Pentafluorobenzene	363-72-4	250	ug/mL
Dibromofluoromethane	1868-53-7	250	ug/mL
Chlorobenzene-d5	3114-55-4	250	ug/mL
4-Bromofluorobenzene	460-00-4	250	ug/mL
1,4-Difluorobenzene	540-36-3	250	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	250	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU06978	Tert-Butanol-d9, 40000 ppm	02/27/12	Marbella Mazza	08/27/12	02/27/12 05:12 by MNM	0.25
PV01282	8260 Surrogates	02/28/12	Jing Hu	09/08/12	03/08/12 09:15 by J H	0.625
PV01286	8260 Internal standard	03/05/12	Marbella Mazza	09/05/12	03/05/12 09:48 by MNM	0.625

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06978

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	08/27/12
Standard Type:	Other	Prepared:	02/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/27/12 05:12 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01282

Description:	8260 Surrogates	Expires:	09/08/12
Standard Type:	Other	Prepared:	02/28/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 09:15 by J H

Part # STM-330N

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01286

Description:	8260 Internal standard	Expires:	09/05/12
Standard Type:	Internal Standar	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 09:48 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVC0524

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, and 505

Sampled: 03/07/12
Received: 03/07/12
Issued: 03/16/12 12:07

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVC0524-01	MW-4S-A-030712	Water
PVC0524-02	MW-5S-A-030712	Water
PVC0524-03	Trip Blank	Water
PVC0524-04	PE-030712	Water
PVC0524-05	MW-6S-A-	Water
PVC0524-06	MW-6S-B-	Water
PVC0524-07	MW-7S-	Water
PVC0524-08	FB030712	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate P.O. Box 53999, M/S 9307 Phoenix, AZ 85072-3999 Attention: Judy Heywood	Project ID: APS 501,502, and 505 Report Number: PVC0524	Sampled: 03/07/12 Received: 03/07/12

SAMPLE RECEIPT:	Samples were received intact, at 2°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. N1 = Hexachlorobutadiene was detected above the MDL in Trip blank sample PVC0524-03. The associated method blank also had a hit above the Reporting Limit for Hexachlorobutadiene. The Hexachlorobutadiene hit in the trip blank and method blank are due to carryover from the QC. The associated samples are all non-detect for Hexachlorobutadiene therefore the data is not impacted. Due to insufficient sample the trip blank will not be re-analyzed. N1a-The MS/MSD RPD exceeded acceptance criteria. See LCS/LCSD RPD. L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
COMMENTS:	Results that fall between the MDL and RL are 'E4' flagged.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

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QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

PVC0524

TestAmerica
THE LEADER IN ENVIRONI... TESTING

TestAmerica Laborat..., Inc.

Client Contact	Project Manager: Judy Heywood	Sampler: LH / DL	Date: 3-7-12	COC No: 1
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	1 of 2 CO
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No. 14-2012-2000
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) ____W____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 I Flags/MDLS	* See Attached													Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
MW-4S-A-030712	3/7/12	925	40 mL VOA	W	3		X															X	-01
MW-5S-A-030712	3/7/12	835	40 mL VOA	W	3		X															X	-02
Trip Blank	3/7/12	N/A	40 mL VOA	W	1		X															X	-03
PE-030712	3/7/12	N/A	40 mL VOA	W	3		X															X	-04

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____1,2_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments: ***Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.***

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	3/7/12 1322	[signature]		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TA	Date/Time: 3/7/12 13:22

1.92 | 0.32 | 0.42

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

PVC0524

TestAmerica
THE LEADER IN ENVIRONM... TESTING

TestAmerica Laborat... Inc.

Client Contact	Project Manager: Judy Heywood	Sampler: DL/LH	Date: 3/7/12	COC No: 2
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	2 of 2 CO
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No. 14-2012-2000
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) ____W____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS + See attached	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
MW-6S-A-~~030812~~	3/7/12	1115	40 mL VOA	W	3		X		X	-05
MW-6S-B-~~030812~~	3/7/12	1120	40 mL VOA	W	3		X		X	-06
MW-7S-~~A-030812~~	3/7/12	1025	40 mL VOA	W	3		X		X	-07
Trip Blank	3/7/12	N/A	40 mL VOA	W	1		X		X	08
FB-~~030812~~ 030712	3/7/12	1100	40 mL VOA	W	3		X		X	09

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____1,2_____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments: ***Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.***

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	AMEC	3/7/12 1322			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA	Date/Time: 3/7/12 13:22

1.9° | 0.3° | 0.4°

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QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-01 (MW-4S-A-030712 - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**0.53**	1	03/13/12	03/13/12	
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-01 (MW-4S-A-030712 - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**0.42**	1	03/13/12	03/13/12	E4
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	ND	1	03/13/12	03/13/12	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*93 %*				
Surrogate: Dibromofluoromethane (70-130%)					*99 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-02 (MW-5S-A-030712 - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**0.78**	1	03/13/12	03/13/12	
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-02 (MW-5S-A-030712 - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**0.83**	1	03/13/12	03/13/12	
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	ND	1	03/13/12	03/13/12	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*96 %*				
Surrogate: Dibromofluoromethane (70-130%)					*101 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-03 (Trip Blank - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	ND	1	03/13/12	03/13/12	E8
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	**0.37**	1	03/13/12	03/13/12	N1, E4

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-03 (Trip Blank - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	ND	1	03/13/12	03/13/12	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*94 %*				
Surrogate: Dibromofluoromethane (70-130%)					*100 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-04 (PE-030712 - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	**6.5**	1	03/13/12	03/13/12	
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	ND	1	03/13/12	03/13/12	E8
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-04 (PE-030712 - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**5.8**	1	03/13/12	03/13/12	
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	**6.3**	1	03/13/12	03/13/12	
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*93 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-05 (MW-6S-A- - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	**0.68**	1	03/13/12	03/13/12	
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**1.7**	1	03/13/12	03/13/12	
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	**0.24**	1	03/13/12	03/13/12	E4
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-05 (MW-6S-A- - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**1.7**	1	03/13/12	03/13/12	
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	**0.97**	1	03/13/12	03/13/12	
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*93 %*				
Surrogate: Dibromofluoromethane (70-130%)					*103 %*				
Surrogate: Toluene-d8 (70-130%)					*98 %*				

TestAmerica Phoenix

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-06 (MW-6S-B- - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	**0.64**	1	03/13/12	03/13/12	
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**1.7**	1	03/13/12	03/13/12	
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	**0.26**	1	03/13/12	03/13/12	E4
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-06 (MW-6S-B- - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**1.7**	1	03/13/12	03/13/12	
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	**1.0**	1	03/13/12	03/13/12	
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*98 %*				
Surrogate: Dibromofluoromethane (70-130%)					*102 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-07 (MW-7S- - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**0.59**	1	03/13/12	03/13/12	
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-07 (MW-7S- - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	**0.80**	1	03/13/12	03/13/12	
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	**0.42**	1	03/13/12	03/13/12	E4
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*95 %*				
Surrogate: Dibromofluoromethane (70-130%)					*100 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-08 (FB030712 - Water)					**Sampled: 03/07/12**				
Reporting Units: ug/l									
Acetone	EPA 8260B	12C0524	7.3	10	ND	1	03/13/12	03/13/12	E8
Benzene	EPA 8260B	12C0524	0.12	0.50	ND	1	03/13/12	03/13/12	E8
Bromobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Bromochloromethane	EPA 8260B	12C0524	0.27	0.50	ND	1	03/13/12	03/13/12	E8
Bromodichloromethane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Bromoform	EPA 8260B	12C0524	0.37	1.0	ND	1	03/13/12	03/13/12	E8
Bromomethane	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
2-Butanone (MEK)	EPA 8260B	12C0524	2.2	2.5	ND	1	03/13/12	03/13/12	E8
tert-Butylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
n-Butylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
sec-Butylbenzene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
Carbon disulfide	EPA 8260B	12C0524	0.10	0.50	ND	1	03/13/12	03/13/12	E8
Carbon tetrachloride	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
Chlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
Chloroethane	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
Chloroform	EPA 8260B	12C0524	0.13	0.50	**0.17**	1	03/13/12	03/13/12	E4
Chloromethane	EPA 8260B	12C0524	0.21	1.0	ND	1	03/13/12	03/13/12	E8
4-Chlorotoluene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
2-Chlorotoluene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12C0524	0.82	2.5	ND	1	03/13/12	03/13/12	E8
Dibromochloromethane	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12C0524	0.30	0.50	ND	1	03/13/12	03/13/12	E8
Dibromomethane	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethane	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12C0524	0.29	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloroethene	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
1,2-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
2,2-Dichloropropane	EPA 8260B	12C0524	0.18	1.0	ND	1	03/13/12	03/13/12	E8
1,3-Dichloropropane	EPA 8260B	12C0524	0.23	0.50	ND	1	03/13/12	03/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12C0524	0.14	0.50	ND	1	03/13/12	03/13/12	E8
1,1-Dichloropropene	EPA 8260B	12C0524	0.20	0.50	ND	1	03/13/12	03/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12C0524	0.47	0.50	ND	1	03/13/12	03/13/12	E8
Ethylbenzene	EPA 8260B	12C0524	0.32	0.50	ND	1	03/13/12	03/13/12	E8
Hexachlorobutadiene	EPA 8260B	12C0524	0.28	1.0	ND	1	03/13/12	03/13/12	B1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVC0524-08 (FB030712 - Water) - cont.					**Sampled: 03/07/12**				
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12C0524	1.5	2.5	ND	1	03/13/12	03/13/12	E8
Iodomethane	EPA 8260B	12C0524	0.21	2.5	ND	1	03/13/12	03/13/12	E8
Isopropylbenzene	EPA 8260B	12C0524	0.26	0.50	ND	1	03/13/12	03/13/12	E8
p-Isopropyltoluene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12C0524	0.22	0.50	ND	1	03/13/12	03/13/12	E8
Methylene Chloride	EPA 8260B	12C0524	0.67	1.0	ND	1	03/13/12	03/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12C0524	1.3	2.5	ND	1	03/13/12	03/13/12	E8
Naphthalene	EPA 8260B	12C0524	0.51	2.5	ND	1	03/13/12	03/13/12	E8, L3
n-Propylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Styrene	EPA 8260B	12C0524	0.17	0.50	ND	1	03/13/12	03/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12C0524	0.35	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12C0524	0.33	0.50	ND	1	03/13/12	03/13/12	E8
Tetrachloroethene	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Toluene	EPA 8260B	12C0524	0.28	0.50	ND	1	03/13/12	03/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12C0524	0.32	1.0	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12C0524	0.45	1.0	ND	1	03/13/12	03/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12C0524	0.31	0.50	ND	1	03/13/12	03/13/12	E8
Trichloroethene	EPA 8260B	12C0524	0.24	0.50	ND	1	03/13/12	03/13/12	E8
Trichlorofluoromethane	EPA 8260B	12C0524	0.15	0.50	ND	1	03/13/12	03/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12C0524	0.78	1.0	ND	1	03/13/12	03/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12C0524	0.25	0.50	ND	1	03/13/12	03/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12C0524	0.21	0.50	ND	1	03/13/12	03/13/12	E8
Vinyl Acetate	EPA 8260B	12C0524	0.81	1.0	ND	1	03/13/12	03/13/12	E8
Vinyl chloride	EPA 8260B	12C0524	0.18	0.50	ND	1	03/13/12	03/13/12	E8
Xylenes, Total	EPA 8260B	12C0524	0.86	1.0	ND	1	03/13/12	03/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*94 %*				
Surrogate: Dibromofluoromethane (70-130%)					*102 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Blank Analyzed: 03/13/2012 (12C0524-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	2.5	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	0.50	0.10	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	0.82	ug/l							
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Blank Analyzed: 03/13/2012 (12C0524-BLK1)											
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	1.14	1.0	0.28	ug/l							*B1*
2-Hexanone	ND	2.5	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Blank Analyzed: 03/13/2012 (12C0524-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	1.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*70-130*			
LCS Analyzed: 03/13/2012 (12C0524-BS1)											
Acetone	30.8	10	7.3	ug/l	25.0		123	30-150			
Benzene	26.4	0.50	0.12	ug/l	25.0		106	70-130			
Bromobenzene	27.6	0.50	0.14	ug/l	25.0		110	70-130			
Bromochloromethane	25.7	0.50	0.27	ug/l	25.0		103	70-130			
Bromodichloromethane	24.9	0.50	0.23	ug/l	25.0		100	70-130			
Bromoform	26.6	1.0	0.37	ug/l	25.0		106	67-122			
Bromomethane	24.5	1.0	0.67	ug/l	25.0		98	64-132			
2-Butanone (MEK)	29.6	2.5	2.2	ug/l	25.0		119	48-150			
tert-Butylbenzene	28.9	0.50	0.25	ug/l	25.0		115	70-130			
n-Butylbenzene	27.7	0.50	0.21	ug/l	25.0		111	70-130			
sec-Butylbenzene	27.2	0.50	0.23	ug/l	25.0		109	70-130			
Carbon disulfide	24.2	0.50	0.10	ug/l	25.0		97	61-126			
Carbon tetrachloride	23.9	0.50	0.15	ug/l	25.0		96	70-130			
Chlorobenzene	24.6	0.50	0.17	ug/l	25.0		98	70-130			
Chloroethane	24.7	0.50	0.25	ug/l	25.0		99	69-128			
Chloroform	23.1	0.50	0.13	ug/l	25.0		92	70-130			
Chloromethane	27.2	1.0	0.21	ug/l	25.0		109	56-131			
4-Chlorotoluene	26.3	0.50	0.20	ug/l	25.0		105	70-130			
2-Chlorotoluene	25.9	0.50	0.17	ug/l	25.0		104	70-130			
1,2-Dibromo-3-chloropropane	28.5	2.5	0.82	ug/l	25.0		114	63-129			
Dibromochloromethane	24.6	0.50	0.22	ug/l	25.0		98	70-130			
1,2-Dibromoethane (EDB)	25.2	0.50	0.30	ug/l	25.0		101	70-130			
Dibromomethane	25.6	0.50	0.26	ug/l	25.0		102	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
LCS Analyzed: 03/13/2012 (12C0524-BS1)											
1,2-Dichlorobenzene	27.2	0.50	0.22	ug/l	25.0		109	70-130			
1,4-Dichlorobenzene	25.4	0.50	0.17	ug/l	25.0		101	70-130			
1,3-Dichlorobenzene	26.4	0.50	0.14	ug/l	25.0		106	70-130			
Dichlorodifluoromethane	24.1	0.50	0.15	ug/l	25.0		96	42-150			
1,1-Dichloroethane	23.5	0.50	0.14	ug/l	25.0		94	70-130			
1,2-Dichloroethane	23.6	0.50	0.31	ug/l	25.0		94	72-133			
cis-1,2-Dichloroethene	26.3	0.50	0.21	ug/l	25.0		105	70-130			
trans-1,2-Dichloroethene	25.2	0.50	0.29	ug/l	25.0		101	70-130			
1,1-Dichloroethene	24.0	0.50	0.23	ug/l	25.0		96	70-130			
1,2-Dichloropropane	25.5	0.50	0.23	ug/l	25.0		102	70-130			
2,2-Dichloropropane	24.2	1.0	0.18	ug/l	25.0		97	70-130			
1,3-Dichloropropane	24.6	0.50	0.23	ug/l	25.0		99	70-130			
cis-1,3-Dichloropropene	29.9	0.50	0.14	ug/l	25.0		120	70-130			
1,1-Dichloropropene	25.8	0.50	0.20	ug/l	25.0		103	70-130			
trans-1,3-Dichloropropene	25.8	0.50	0.47	ug/l	25.0		103	70-130			
Ethylbenzene	27.0	0.50	0.32	ug/l	25.0		108	70-130			
Hexachlorobutadiene	27.7	1.0	0.28	ug/l	25.0		111	70-130			
2-Hexanone	34.4	2.5	1.5	ug/l	25.0		138	44-150			
Iodomethane	26.2	2.5	0.21	ug/l	25.0		105	58-138			
Isopropylbenzene	31.1	0.50	0.26	ug/l	25.0		124	70-130			
p-Isopropyltoluene	26.7	0.50	0.21	ug/l	25.0		107	70-130			
Methyl-tert-butyl Ether (MTBE)	25.4	0.50	0.22	ug/l	25.0		102	70-130			
Methylene Chloride	21.6	1.0	0.67	ug/l	25.0		86	70-130			
4-Methyl-2-pentanone (MIBK)	28.7	2.5	1.3	ug/l	25.0		115	61-142			
Naphthalene	32.2	2.5	0.51	ug/l	25.0		129	65-129			
n-Propylbenzene	28.8	0.50	0.21	ug/l	25.0		115	70-130			
Styrene	26.7	0.50	0.17	ug/l	25.0		107	70-130			
1,1,1,2-Tetrachloroethane	24.8	0.50	0.35	ug/l	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	25.9	0.50	0.33	ug/l	25.0		104	70-130			
Tetrachloroethene	24.6	0.50	0.18	ug/l	25.0		98	70-130			
Toluene	26.8	0.50	0.28	ug/l	25.0		107	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
LCS Analyzed: 03/13/2012 (12C0524-BS1)											
1,2,4-Trichlorobenzene	31.7	1.0	0.32	ug/l	25.0		127	70-130			
1,2,3-Trichlorobenzene	31.9	1.0	0.45	ug/l	25.0		128	70-130			
1,1,1-Trichloroethane	23.3	0.50	0.15	ug/l	25.0		93	70-130			
1,1,2-Trichloroethane	25.9	0.50	0.31	ug/l	25.0		104	70-130			
Trichloroethene	25.1	0.50	0.24	ug/l	25.0		100	70-130			
Trichlorofluoromethane	26.7	0.50	0.15	ug/l	25.0		107	78-149			
1,2,3-Trichloropropane	26.6	1.0	0.78	ug/l	25.0		106	70-130			
1,2,4-Trimethylbenzene	27.0	0.50	0.25	ug/l	25.0		108	70-130			
1,3,5-Trimethylbenzene	27.1	0.50	0.21	ug/l	25.0		108	70-130			
Vinyl Acetate	29.4	1.0	0.81	ug/l	25.0		118	57-149			
Vinyl chloride	25.6	0.50	0.18	ug/l	25.0		102	66-134			
Xylenes, Total	52.7	1.0	0.86	ug/l	50.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.2*			*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*70-130*			
LCS Dup Analyzed: 03/13/2012 (12C0524-BSD1)											
Acetone	23.5	10	7.3	ug/l	25.0		94	30-150	27	35	
Benzene	27.4	0.50	0.12	ug/l	25.0		110	70-130	4	20	
Bromobenzene	27.5	0.50	0.14	ug/l	25.0		110	70-130	0.07	20	
Bromochloromethane	26.1	0.50	0.27	ug/l	25.0		104	70-130	1	20	
Bromodichloromethane	24.6	0.50	0.23	ug/l	25.0		98	70-130	1	20	
Bromoform	27.3	1.0	0.37	ug/l	25.0		109	67-122	3	20	
Bromomethane	25.9	1.0	0.67	ug/l	25.0		104	64-132	6	20	
2-Butanone (MEK)	25.5	2.5	2.2	ug/l	25.0		102	48-150	15	33	
tert-Butylbenzene	29.7	0.50	0.25	ug/l	25.0		119	70-130	3	20	
n-Butylbenzene	28.7	0.50	0.21	ug/l	25.0		115	70-130	3	20	
sec-Butylbenzene	27.8	0.50	0.23	ug/l	25.0		111	70-130	2	20	
Carbon disulfide	26.7	0.50	0.10	ug/l	25.0		107	61-126	10	20	
Carbon tetrachloride	25.0	0.50	0.15	ug/l	25.0		100	70-130	4	20	
Chlorobenzene	25.4	0.50	0.17	ug/l	25.0		102	70-130	3	20	
Chloroethane	26.1	0.50	0.25	ug/l	25.0		104	69-128	5	20	

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
LCS Dup Analyzed: 03/13/2012 (12C0524-BSD1)											
Chloroform	23.6	0.50	0.13	ug/l	25.0		95	70-130	2	20	
Chloromethane	28.7	1.0	0.21	ug/l	25.0		115	56-131	5	20	
4-Chlorotoluene	26.6	0.50	0.20	ug/l	25.0		106	70-130	1	20	
2-Chlorotoluene	26.2	0.50	0.17	ug/l	25.0		105	70-130	1	20	
1,2-Dibromo-3-chloropropane	30.3	2.5	0.82	ug/l	25.0		121	63-129	6	25	
Dibromochloromethane	25.3	0.50	0.22	ug/l	25.0		101	70-130	3	20	
1,2-Dibromoethane (EDB)	25.6	0.50	0.30	ug/l	25.0		102	70-130	1	20	
Dibromomethane	25.8	0.50	0.26	ug/l	25.0		103	70-130	0.9	20	
1,2-Dichlorobenzene	27.2	0.50	0.22	ug/l	25.0		109	70-130	0.07	20	
1,4-Dichlorobenzene	25.9	0.50	0.17	ug/l	25.0		104	70-130	2	20	
1,3-Dichlorobenzene	26.4	0.50	0.14	ug/l	25.0		106	70-130	0.08	20	
Dichlorodifluoromethane	25.2	0.50	0.15	ug/l	25.0		101	42-150	4	20	
1,1-Dichloroethane	24.3	0.50	0.14	ug/l	25.0		97	70-130	3	20	
1,2-Dichloroethane	24.4	0.50	0.31	ug/l	25.0		97	72-133	3	20	
cis-1,2-Dichloroethene	27.0	0.50	0.21	ug/l	25.0		108	70-130	3	20	
trans-1,2-Dichloroethene	26.3	0.50	0.29	ug/l	25.0		105	70-130	4	20	
1,1-Dichloroethene	25.3	0.50	0.23	ug/l	25.0		101	70-130	5	20	
1,2-Dichloropropane	26.0	0.50	0.23	ug/l	25.0		104	70-130	2	20	
2,2-Dichloropropane	25.7	1.0	0.18	ug/l	25.0		103	70-130	6	20	
1,3-Dichloropropane	25.2	0.50	0.23	ug/l	25.0		101	70-130	2	20	
cis-1,3-Dichloropropene	29.2	0.50	0.14	ug/l	25.0		117	70-130	3	20	
1,1-Dichloropropene	26.9	0.50	0.20	ug/l	25.0		108	70-130	4	20	
trans-1,3-Dichloropropene	26.1	0.50	0.47	ug/l	25.0		104	70-130	1	20	
Ethylbenzene	27.7	0.50	0.32	ug/l	25.0		111	70-130	3	20	
Hexachlorobutadiene	28.5	1.0	0.28	ug/l	25.0		114	70-130	3	20	
2-Hexanone	28.0	2.5	1.5	ug/l	25.0		112	44-150	21	31	
Iodomethane	27.7	2.5	0.21	ug/l	25.0		111	58-138	6	25	
Isopropylbenzene	31.6	0.50	0.26	ug/l	25.0		126	70-130	2	20	
p-Isopropyltoluene	26.8	0.50	0.21	ug/l	25.0		107	70-130	0.6	20	
Methyl-tert-butyl Ether (MTBE)	26.2	0.50	0.22	ug/l	25.0		105	70-130	3	20	
Methylene Chloride	22.5	1.0	0.67	ug/l	25.0		90	70-130	4	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
LCS Dup Analyzed: 03/13/2012 (12C0524-BSD1)											
4-Methyl-2-pentanone (MIBK)	28.4	2.5	1.3	ug/l	25.0		114	61-142	1	22	
Naphthalene	32.9	2.5	0.51	ug/l	25.0		132	65-129	2	20	*L3*
n-Propylbenzene	29.7	0.50	0.21	ug/l	25.0		119	70-130	3	20	
Styrene	27.2	0.50	0.17	ug/l	25.0		109	70-130	2	20	
1,1,1,2-Tetrachloroethane	25.7	0.50	0.35	ug/l	25.0		103	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.7	0.50	0.33	ug/l	25.0		103	70-130	0.8	20	
Tetrachloroethene	25.9	0.50	0.18	ug/l	25.0		103	70-130	5	20	
Toluene	27.7	0.50	0.28	ug/l	25.0		111	70-130	3	20	
1,2,4-Trichlorobenzene	32.3	1.0	0.32	ug/l	25.0		129	70-130	2	20	
1,2,3-Trichlorobenzene	32.2	1.0	0.45	ug/l	25.0		129	70-130	1	20	
1,1,1-Trichloroethane	24.3	0.50	0.15	ug/l	25.0		97	70-130	4	20	
1,1,2-Trichloroethane	26.3	0.50	0.31	ug/l	25.0		105	70-130	2	20	
Trichloroethene	25.8	0.50	0.24	ug/l	25.0		103	70-130	3	20	
Trichlorofluoromethane	29.0	0.50	0.15	ug/l	25.0		116	78-149	8	20	
1,2,3-Trichloropropane	26.0	1.0	0.78	ug/l	25.0		104	70-130	2	20	
1,2,4-Trimethylbenzene	27.2	0.50	0.25	ug/l	25.0		109	70-130	0.8	20	
1,3,5-Trimethylbenzene	27.5	0.50	0.21	ug/l	25.0		110	70-130	2	20	
Vinyl Acetate	30.8	1.0	0.81	ug/l	25.0		123	57-149	5	21	
Vinyl chloride	27.0	0.50	0.18	ug/l	25.0		108	66-134	5	20	
Xylenes, Total	54.7	1.0	0.86	ug/l	50.0		109	70-130	4	20	
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*70-130*			
Matrix Spike Analyzed: 03/13/2012 (12C0524-MS1)						**Source: PVC0524-01**					
Acetone	13.5	10	7.3	ug/l	25.0	ND	54	10-150			
Benzene	27.7	0.50	0.12	ug/l	25.0	ND	111	70-130			
Bromobenzene	27.6	0.50	0.14	ug/l	25.0	ND	110	70-130			
Bromochloromethane	26.3	0.50	0.27	ug/l	25.0	ND	105	70-130			
Bromodichloromethane	24.9	0.50	0.23	ug/l	25.0	ND	100	70-130			
Bromoform	26.2	1.0	0.37	ug/l	25.0	ND	105	62-126			
Bromomethane	25.9	1.0	0.67	ug/l	25.0	ND	104	55-136			

TestAmerica Phoenix

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Matrix Spike Analyzed: 03/13/2012 (12C0524-MS1)					**Source: PVC0524-01**						
2-Butanone (MEK)	19.1	2.5	2.2	ug/l	25.0	ND	76	22-150			
tert-Butylbenzene	30.1	0.50	0.25	ug/l	25.0	ND	120	70-130			
n-Butylbenzene	29.4	0.50	0.21	ug/l	25.0	ND	118	70-130			
sec-Butylbenzene	29.0	0.50	0.23	ug/l	25.0	ND	116	70-130			
Carbon disulfide	27.6	0.50	0.10	ug/l	25.0	ND	111	56-132			
Carbon tetrachloride	26.2	0.50	0.15	ug/l	25.0	ND	105	76-131			
Chlorobenzene	26.0	0.50	0.17	ug/l	25.0	ND	104	70-130			
Chloroethane	27.3	0.50	0.25	ug/l	25.0	ND	109	67-134			
Chloroform	24.3	0.50	0.13	ug/l	25.0	0.530	95	70-130			
Chloromethane	28.8	1.0	0.21	ug/l	25.0	ND	115	50-135			
4-Chlorotoluene	27.0	0.50	0.20	ug/l	25.0	ND	108	70-130			
2-Chlorotoluene	26.6	0.50	0.17	ug/l	25.0	ND	106	70-130			
1,2-Dibromo-3-chloropropane	26.4	2.5	0.82	ug/l	25.0	ND	106	60-135			
Dibromochloromethane	24.9	0.50	0.22	ug/l	25.0	ND	100	70-130			
1,2-Dibromoethane (EDB)	25.2	0.50	0.30	ug/l	25.0	ND	101	70-130			
Dibromomethane	24.6	0.50	0.26	ug/l	25.0	ND	98	70-130			
1,2-Dichlorobenzene	27.3	0.50	0.22	ug/l	25.0	ND	109	70-130			
1,4-Dichlorobenzene	25.8	0.50	0.17	ug/l	25.0	ND	103	70-130			
1,3-Dichlorobenzene	26.7	0.50	0.14	ug/l	25.0	ND	107	70-130			
Dichlorodifluoromethane	26.0	0.50	0.15	ug/l	25.0	ND	104	36-150			
1,1-Dichloroethane	24.0	0.50	0.14	ug/l	25.0	ND	96	70-130			
1,2-Dichloroethane	23.5	0.50	0.31	ug/l	25.0	ND	94	68-143			
cis-1,2-Dichloroethene	27.0	0.50	0.21	ug/l	25.0	ND	108	70-130			
trans-1,2-Dichloroethene	26.3	0.50	0.29	ug/l	25.0	ND	105	70-130			
1,1-Dichloroethene	26.8	0.50	0.23	ug/l	25.0	ND	107	70-130			
1,2-Dichloropropane	26.0	0.50	0.23	ug/l	25.0	ND	104	70-130			
2,2-Dichloropropane	26.7	1.0	0.18	ug/l	25.0	ND	107	66-130			
1,3-Dichloropropane	24.9	0.50	0.23	ug/l	25.0	ND	100	70-130			
cis-1,3-Dichloropropene	29.0	0.50	0.14	ug/l	25.0	ND	116	70-130			
1,1-Dichloropropene	28.2	0.50	0.20	ug/l	25.0	ND	113	70-130			
trans-1,3-Dichloropropene	25.5	0.50	0.47	ug/l	25.0	ND	102	71-132			

TestAmerica Phoenix

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Matrix Spike Analyzed: 03/13/2012 (12C0524-MS1)					**Source: PVC0524-01**						
Ethylbenzene	28.5	0.50	0.32	ug/l	25.0	ND	114	70-130			
Hexachlorobutadiene	29.5	1.0	0.28	ug/l	25.0	ND	118	66-129			
2-Hexanone	21.7	2.5	1.5	ug/l	25.0	ND	87	18-150			
Iodomethane	27.8	2.5	0.21	ug/l	25.0	ND	111	47-141			
Isopropylbenzene	32.3	0.50	0.26	ug/l	25.0	ND	129	78-137			
p-Isopropyltoluene	27.7	0.50	0.21	ug/l	25.0	ND	111	70-130			
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	0.22	ug/l	25.0	ND	97	67-138			
Methylene Chloride	22.2	1.0	0.67	ug/l	25.0	ND	89	74-132			
4-Methyl-2-pentanone (MIBK)	25.5	2.5	1.3	ug/l	25.0	ND	102	56-145			
Naphthalene	30.8	2.5	0.51	ug/l	25.0	ND	123	54-135			
n-Propylbenzene	30.2	0.50	0.21	ug/l	25.0	ND	121	70-130			
Styrene	26.4	0.50	0.17	ug/l	25.0	ND	105	51-123			
1,1,1,2-Tetrachloroethane	26.0	0.50	0.35	ug/l	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	24.8	0.50	0.33	ug/l	25.0	ND	99	69-133			
Tetrachloroethene	28.0	0.50	0.18	ug/l	25.0	0.420	111	70-130			
Toluene	28.0	0.50	0.28	ug/l	25.0	ND	112	70-130			
1,2,4-Trichlorobenzene	31.3	1.0	0.32	ug/l	25.0	ND	125	66-126			
1,2,3-Trichlorobenzene	30.6	1.0	0.45	ug/l	25.0	ND	122	70-130			
1,1,1-Trichloroethane	25.1	0.50	0.15	ug/l	25.0	ND	100	76-132			
1,1,2-Trichloroethane	25.3	0.50	0.31	ug/l	25.0	ND	101	70-130			
Trichloroethene	27.0	0.50	0.24	ug/l	25.0	ND	108	70-130			
Trichlorofluoromethane	31.3	0.50	0.15	ug/l	25.0	ND	125	74-150			
1,2,3-Trichloropropane	25.3	1.0	0.78	ug/l	25.0	ND	101	70-130			
1,2,4-Trimethylbenzene	26.7	0.50	0.25	ug/l	25.0	ND	107	70-130			
1,3,5-Trimethylbenzene	27.9	0.50	0.21	ug/l	25.0	ND	111	61-138			
Vinyl Acetate	28.9	1.0	0.81	ug/l	25.0	ND	116	50-150			
Vinyl chloride	28.5	0.50	0.18	ug/l	25.0	ND	114	58-139			
Xylenes, Total	55.5	1.0	0.86	ug/l	50.0	ND	111	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*23.2*			*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			

TestAmerica Phoenix

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Matrix Spike Dup Analyzed: 03/13/2012 (12C0524-MSD1)					**Source: PVC0524-01**						
Acetone	14.9	10	7.3	ug/l	25.0	ND	60	10-150	10	35	
Benzene	26.9	0.50	0.12	ug/l	25.0	ND	108	70-130	3	20	
Bromobenzene	26.9	0.50	0.14	ug/l	25.0	ND	108	70-130	3	20	
Bromochloromethane	26.3	0.50	0.27	ug/l	25.0	ND	105	70-130	0.2	20	
Bromodichloromethane	24.3	0.50	0.23	ug/l	25.0	ND	97	70-130	2	20	
Bromoform	24.4	1.0	0.37	ug/l	25.0	ND	98	62-126	7	20	
Bromomethane	25.2	1.0	0.67	ug/l	25.0	ND	101	55-136	3	24	
2-Butanone (MEK)	20.1	2.5	2.2	ug/l	25.0	ND	80	22-150	5	31	
tert-Butylbenzene	28.8	0.50	0.25	ug/l	25.0	ND	115	70-130	4	20	
n-Butylbenzene	27.8	0.50	0.21	ug/l	25.0	ND	111	70-130	6	20	
sec-Butylbenzene	27.9	0.50	0.23	ug/l	25.0	ND	112	70-130	4	20	
Carbon disulfide	19.1	0.50	0.10	ug/l	25.0	ND	77	56-132	36	20	*N1a*
Carbon tetrachloride	24.6	0.50	0.15	ug/l	25.0	ND	98	76-131	6	20	
Chlorobenzene	24.9	0.50	0.17	ug/l	25.0	ND	100	70-130	4	20	
Chloroethane	25.6	0.50	0.25	ug/l	25.0	ND	102	67-134	7	20	
Chloroform	23.5	0.50	0.13	ug/l	25.0	0.530	92	70-130	3	20	
Chloromethane	27.7	1.0	0.21	ug/l	25.0	ND	111	50-135	4	20	
4-Chlorotoluene	25.5	0.50	0.20	ug/l	25.0	ND	102	70-130	6	20	
2-Chlorotoluene	25.4	0.50	0.17	ug/l	25.0	ND	101	70-130	5	20	
1,2-Dibromo-3-chloropropane	27.3	2.5	0.82	ug/l	25.0	ND	109	60-135	3	29	
Dibromochloromethane	23.9	0.50	0.22	ug/l	25.0	ND	96	70-130	4	20	
1,2-Dibromoethane (EDB)	25.9	0.50	0.30	ug/l	25.0	ND	104	70-130	3	20	
Dibromomethane	25.7	0.50	0.26	ug/l	25.0	ND	103	70-130	4	20	
1,2-Dichlorobenzene	26.0	0.50	0.22	ug/l	25.0	ND	104	70-130	5	20	
1,4-Dichlorobenzene	25.1	0.50	0.17	ug/l	25.0	ND	100	70-130	3	20	
1,3-Dichlorobenzene	25.6	0.50	0.14	ug/l	25.0	ND	103	70-130	4	20	
Dichlorodifluoromethane	25.4	0.50	0.15	ug/l	25.0	ND	101	36-150	2	22	
1,1-Dichloroethane	23.5	0.50	0.14	ug/l	25.0	ND	94	70-130	2	20	
1,2-Dichloroethane	23.6	0.50	0.31	ug/l	25.0	ND	94	68-143	0.2	20	
cis-1,2-Dichloroethene	26.5	0.50	0.21	ug/l	25.0	ND	106	70-130	2	20	
trans-1,2-Dichloroethene	25.6	0.50	0.29	ug/l	25.0	ND	102	70-130	3	20	

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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Matrix Spike Dup Analyzed: 03/13/2012 (12C0524-MSD1)					**Source: PVC0524-01**						
1,1-Dichloroethene	25.7	0.50	0.23	ug/l	25.0	ND	103	70-130	4	20	
1,2-Dichloropropane	25.6	0.50	0.23	ug/l	25.0	ND	103	70-130	1	20	
2,2-Dichloropropane	25.6	1.0	0.18	ug/l	25.0	ND	103	66-130	4	20	
1,3-Dichloropropane	24.8	0.50	0.23	ug/l	25.0	ND	99	70-130	0.2	20	
cis-1,3-Dichloropropene	26.7	0.50	0.14	ug/l	25.0	ND	107	70-130	8	20	
1,1-Dichloropropene	27.2	0.50	0.20	ug/l	25.0	ND	109	70-130	4	20	
trans-1,3-Dichloropropene	24.3	0.50	0.47	ug/l	25.0	ND	97	71-132	5	20	
Ethylbenzene	27.6	0.50	0.32	ug/l	25.0	ND	110	70-130	3	20	
Hexachlorobutadiene	27.9	1.0	0.28	ug/l	25.0	ND	111	66-129	6	21	
2-Hexanone	23.5	2.5	1.5	ug/l	25.0	ND	94	18-150	8	25	
Iodomethane	26.8	2.5	0.21	ug/l	25.0	ND	107	47-141	3	29	
Isopropylbenzene	31.2	0.50	0.26	ug/l	25.0	ND	125	78-137	4	20	
p-Isopropyltoluene	26.5	0.50	0.21	ug/l	25.0	ND	106	70-130	5	20	
Methyl-tert-butyl Ether (MTBE)	24.9	0.50	0.22	ug/l	25.0	ND	100	67-138	3	21	
Methylene Chloride	21.9	1.0	0.67	ug/l	25.0	ND	87	74-132	2	20	
4-Methyl-2-pentanone (MIBK)	26.7	2.5	1.3	ug/l	25.0	ND	107	56-145	5	26	
Naphthalene	31.3	2.5	0.51	ug/l	25.0	ND	125	54-135	1	33	
n-Propylbenzene	28.8	0.50	0.21	ug/l	25.0	ND	115	70-130	5	20	
Styrene	26.7	0.50	0.17	ug/l	25.0	ND	107	51-123	1	21	
1,1,1,2-Tetrachloroethane	25.2	0.50	0.35	ug/l	25.0	ND	101	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.1	0.50	0.33	ug/l	25.0	ND	100	69-133	1	20	
Tetrachloroethene	26.5	0.50	0.18	ug/l	25.0	0.420	104	70-130	6	20	
Toluene	27.4	0.50	0.28	ug/l	25.0	ND	110	70-130	2	20	
1,2,4-Trichlorobenzene	30.6	1.0	0.32	ug/l	25.0	ND	123	66-126	2	20	
1,2,3-Trichlorobenzene	30.3	1.0	0.45	ug/l	25.0	ND	121	70-130	1	20	
1,1,1-Trichloroethane	24.3	0.50	0.15	ug/l	25.0	ND	97	76-132	3	20	
1,1,2-Trichloroethane	26.1	0.50	0.31	ug/l	25.0	ND	104	70-130	3	20	
Trichloroethene	26.1	0.50	0.24	ug/l	25.0	ND	104	70-130	3	20	
Trichlorofluoromethane	29.6	0.50	0.15	ug/l	25.0	ND	118	74-150	6	20	
1,2,3-Trichloropropane	25.2	1.0	0.78	ug/l	25.0	ND	101	70-130	0.2	20	
1,2,4-Trimethylbenzene	26.0	0.50	0.25	ug/l	25.0	ND	104	70-130	3	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12C0524 Extracted: 03/13/12											
Matrix Spike Dup Analyzed: 03/13/2012 (12C0524-MSD1)						**Source: PVC0524-01**					
1,3,5-Trimethylbenzene	26.8	0.50	0.21	ug/l	25.0	ND	107	61-138	4	33	
Vinyl Acetate	29.2	1.0	0.81	ug/l	25.0	ND	117	50-150	1	23	
Vinyl chloride	27.2	0.50	0.18	ug/l	25.0	ND	109	58-139	5	21	
Xylenes, Total	54.1	1.0	0.86	ug/l	50.0	ND	108	70-130	3	20	
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate P.O. Box 53999, M/S 9307 Phoenix, AZ 85072-3999 Attention: Judy Heywood	Project ID: APS 501,502, and 505 Report Number: PVC0524	Sampled: 03/07/12 Received: 03/07/12

DATA QUALIFIERS AND DEFINITIONS

B1	Target analyte detected in method blank at or above the method reporting limit.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
L3	The associated blank spike recovery was above method acceptance limits.
N1	See case narrative.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVC0524

Sampled: 03/07/12
Received: 03/07/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 03/12/2012

TestAmerica
Phoenix

Instrument ID	GCMS 9
Date:	3/12/12
Analyst	MS
Method(s)	8260/624
50 ppm Cal. Std.	PV01506
500 / 250 ppm EtOH/TBA Cal. Std.	PV01212
50 ppm SS Std.	PV01459
500 / 250 ppm EtOH/TBA SS Std.	PV01311

This table outlines the initial calibration preparation for GCMS 9 & GCMS 13.

	FINAL CONCENTRATIONS (ppb)		SPIKE AMOUNTS (uL)	
Calibration number	ISTD / Surrogates *	Target Compounds VOC / EtOH / TBA	Calibration standard 50 ppm and Ethanol/TBA standard 500 ppm /250 ppm	Final Volume (mL)
1	25	0.5 / 2.5 / 5	1	100
2	25	1 / 5 10	1	50
3	25	2 / 10 / 20	2	50
4	25	5 / 25 / 50	5	50
5	25	10 / 50 / 100	10	50
6*	**25**	**25 / 125 / 250**	**25**	**50**
7	25	50 / 250 / 500	50	50
8	25	100 / 500 / 1000	100	50
9	25	200 / 1000 / 2000	200	50

SS/ICVs are at the same level as Calibration point #6 and prepared the same way.

Reviewed By: _____ Date: 3/14/12

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\031212

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	03121201.D	1.	BLANK		12 Mar 2012 07:52
2	3	03121202.D	1.	BLANK		12 Mar 2012 08:25
3	1	03121203.D	1.	TUNE		12 Mar 2012 08:54
4	1	03121204.D	1.	TUNE		12 Mar 2012 10:02
5	2	03121205.D	1.	25 PPB CCV		12 Mar 2012 10:31
6	3	03121206.D	1.	BLANK		12 Mar 2012 11:05
7	1	03121207.D	1.	TUNE		12 Mar 2012 11:41
8	1	03121208.D	1.	TUNE		12 Mar 2012 11:55
9	2	03121209.D	1.	25 PPB CCV		12 Mar 2012 12:24
10	2	03121210.D	1.	25 PPB CCV		12 Mar 2012 13:00
11	3	03121211.D	1.	25 PPB CCV		12 Mar 2012 13:32
12	1	03121212.D	1.	TUNE		12 Mar 2012 14:24
13	2	03121213.D	1.	25 PPB CCV		12 Mar 2012 14:49
14	2	03121214.D	1.	BLANK		12 Mar 2012 15:28
15	3	03121215.D	1.	BLANK		12 Mar 2012 15:59
16	4	03121216.D	1.	BLANK		12 Mar 2012 16:31
17	5	03121217.D	1.	BLANK		12 Mar 2012 17:03
18	6	03121218.D	1.	0.5 PPB CAL PT		12 Mar 2012 17:35
19	7	03121219.D	1.	1.0 PPB CAL PT		12 Mar 2012 18:06
20	8	03121220.D	1.	2.0 PPB CAL PT		12 Mar 2012 18:37
21	9	03121221.D	1.	5.0 PPB CAL PT		12 Mar 2012 19:09
22	10	03121222.D	1.	10 PPB CAL PT		12 Mar 2012 19:40
23	11	03121223.D	1.	25 PPB CAL PT		12 Mar 2012 20:12
24	12	03121224.D	1.	50 PPB CAL PT		12 Mar 2012 20:43
25	13	03121225.D	1.	100 PPB CAL PT		12 Mar 2012 21:15
26	14	03121226.D	1.	200 PPB CAL PT		12 Mar 2012 21:47
27	15	03121227.D	1.	BLANK		12 Mar 2012 22:18
28	16	03121228.D	1.	BLANK		12 Mar 2012 22:50
29	17	03121229.D	1.	25 PPB SS/ICV		12 Mar 2012 23:22
30	18	03121230.D	1.	20 PPB SS/ICV		12 Mar 2012 23:54

✓3/14/12

M 3/14/12

TestAmerica
Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 3/12/12 QC BATCH # (s) : NA

ANALYST: MJ SEQUENCE FILE: C:\GCMS9\DATA\ 031212.S

CALIBRATION METHOD(S): 022812.m

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
2	031212 01	Blank	✓	NA	8260	H_2O	
✓	02	↓	2 µl	↓	↓	NA	Accidentally injected BFB
✓	03	TUNE	2 µl	↓	↓	↓	Restart block
2	~~04~~	~~25 ppb CCV~~	✓	~~MJ 3/12/12~~		~~H_2O~~	~~Did not run~~ Contractor error
✓	031212 04	TUNE	2 µl	NA	8260	NA	
2	05	25 ppb CCV	✓	↓	↓	H_2O	DNU VChigh
3	06	Blank	✓	↓	↓	↓	Clean out
✓	07	TUNE	2 µl	↓	↓	NA	DNU Failed
✓	08	↓	2 µl	↓	↓	↓	OK
2	09	25 ppb CCV	✓	↓	↓	H_2O	DNU - VChigh
3	10	↓	✓	↓	↓	↓	↓
4	11	↓	✓	↓	↓	↓	↓
✓	12	TUNE	2 µl	↓	8260/624	NA	After Bakeout
2	13	25 ppb CCV	✓	↓	↓	H_2O	DNU - VChigh
3	14	Blank	✓	↓	↓	↓	
4	15	↓	✓	↓	↓	↓	
5	16	↓	✓	↓	↓	↓	
6	17	↓	✓	↓	↓	↓	
7	18	0.5 ppb Cal. pt.	✓	↓	↓	↓	
8	19	1.0	✓	↓	↓	↓	
9	20	2.0	✓	↓	↓	↓	
10	21	5.0	✓	↓	↓	↓	
11	22	10	✓	↓	↓	↓	
12	23	25	✓	↓	↓	↓	
13	24	50	✓	↓	↓	↓	
14	25	100	✓	↓	↓	↓	
15	26	200	✓	↓	↓	↓	
16	27	Blank	✓	↓	↓	↓	
17	28	↓	✓	↓	↓	↓	
18/19	29/30	25 ppb / 20 ppb SS/ICV	✓	↓	↓	↓	

STANDARD ID NUMBERS

ICV / H_2O LCS: PV01459 / PV01311

CCV/CALIBRATION STD: PV01506 / PV01212

IS/Surrogate: PV01488

BFB: PV00965

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 25 µl CCV std → 50 ml

PREPARATION: NA

ARCHON REVIEWED By/Date: MJ

SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: 3/14/12

RESPONSE FACTOR REPORT
Operator_____
Standard Lot_____
Reviewed by_____
GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

Calibration File
1 =03121218.D 2 =03121219.D 3 =03121220.D 4 =03121221.D
6 =03121223.D 7 =03121224.D 8 =03121225.D 9 =03121226.D =

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	
I	TBA-d9	ISTD											
T	Ethanol	—	—	—	—	—	0.104	0.130	0.137	0.129	0.125	11.76	
T	tert-Butanol (TBA)	—	—	1.884	1.722	1.725	1.793	1.698	1.735	1.659	1.745	4.20	
I	Pentafluorobenzene	ISTD											
T	Dichlorodifluoromethane	1.276	1.193	1.204	1.196	1.199	1.160	1.158	1.062	0.918	1.152	9.06	
P	Chloromethane	1.384	1.394	1.323	1.442	1.401	1.323	1.237	1.073	—	1.322	8.99	70.1
C	Vinyl Chloride	1.141	1.199	1.150	1.161	1.160	1.145	1.109	1.043	0.928	1.115	7.37	<30%
#													
T	1,3-Butadiene	0.692	0.628	0.682	0.674	0.689	0.682	0.675	0.638	0.579	0.660	5.67	
T	Bromomethane	0.923	0.902	0.830	0.833	0.829	0.771	0.760	0.732	0.695	0.808	9.35	
T	Chloroethane	0.690	0.641	0.666	0.667	0.670	0.654	0.668	0.644	0.601	0.656	3.86	
	Acrolein										0.000	-1.00	
T	Trichlorofluoromethane	0.793	0.830	0.874	0.921	0.985	1.004	0.999	1.002	1.000	0.934	8.89	
T	Acetone	—	—	—	0.224	0.214	0.184	0.168	0.216	0.215	0.204	10.79	
	Acrylonitrile										0.000	-1.00	
T	Iodomethane	1.244	1.162	1.155	1.148	1.176	1.142	1.148	1.126	1.101	1.156	3.42	
C	1,1-Dichloroethene	0.789	0.738	0.712	0.743	0.722	0.726	0.725	0.711	0.689	0.728	3.82	<30%
#													
T	Methylene Chloride	1.095	0.973	0.933	0.904	0.888	0.829	0.828	0.800	0.759	0.890	11.50	
T	Freon 113	0.788	0.841	0.850	0.837	0.842	0.808	0.797	0.779	0.748	0.810	4.30	
T	Carbon Disulfide	1.964	1.979	1.999	2.009	2.091	1.995	1.979	1.997	1.963	1.997	1.94	
T	trans-1,2-Dichloroethene	0.918	0.859	0.805	0.833	0.875	0.842	0.812	0.802	0.741	0.832	6.06	
T	MTBE	1.095	1.215	1.177	1.236	1.328	1.286	1.346	1.365	1.233	1.253	6.96	
P	1,1-Dichloroethane	1.566	1.614	1.576	1.548	1.595	1.503	1.435	1.415	1.247	1.500	7.82	70.1
T	Vinyl Acetate	0.944	0.910	0.954	1.028	1.145	1.175	1.246	1.180	1.035	1.069	11.35	
T	n-Hexane	0.140	0.117	0.147	0.155	0.151	0.153	0.144	0.142	0.136	0.143	8.01	
T	2-Butanone (MEK)	—	—	0.052	0.046	0.049	0.042	0.041	0.046	0.046	0.046	8.30	
T	Diisopropylether (DIPE)	2.599	2.809	2.904	3.059	2.962	2.811	2.791	2.617	2.393	2.772	7.41	

T	cis-1,2-Dichloroethene	0.705	0.758	0.744	0.800	0.811	0.774	0.757	0.739	0.713	0.756	4.74	
T	Bromochloromethane	0.295	0.306	0.303	0.326	0.332	0.313	0.301	0.295	0.292	0.307	4.60	
C	Chloroform	1.435	1.387	1.379	1.422	1.390	1.309	1.258	1.182	1.114	1.320	8.55	<30%
#													
T	2,2-Dichloropropane	0.850	0.825	0.842	0.848	0.852	0.770	0.744	0.690	0.635	0.784	10.16	
T	(ETBE) 2-Ethoxy-2-methyl propane	1.440	1.456	1.659	1.804	1.853	1.844	1.896	1.810	1.717	1.720	9.88	
S	Dibromofluoromethane(surr)	0.608	0.623	0.616	0.630	0.610	0.573	0.616	0.585	0.562	0.602	3.89	
T	Tetrahydrofuran	____	____	0.032	0.026	0.031	0.030	0.034	0.034	0.036	0.032	10.56	
T	1,2-Dichloroethane	0.839	0.903	0.867	0.878	0.851	0.826	0.812	0.775	0.743	0.833	6.06	
T	1,1,1-Trichloroethane	1.047	1.108	1.062	1.098	1.066	1.036	1.004	0.969	0.931	1.036	5.65	
T	(TAME) tert-Amyl methyl ether	____	0.964	1.052	1.171	1.189	1.238	1.314	1.266	1.230	1.178	9.87	
I	1,4-Difluorobenzene	----------ISTD----------											
T	1,1-Dichloropropene	0.489	0.517	0.539	0.557	0.593	0.574	0.552	0.547	0.511	0.542	5.99	
T	Carbon Tetrachloride	0.582	0.571	0.596	0.568	0.589	0.563	0.539	0.531	0.508	0.561	5.19	
T	Benzene	1.514	1.507	1.510	1.486	1.519	1.476	1.394	1.335	1.204	1.438	7.50	
T	Dibromomethane	0.205	0.205	0.214	0.214	0.225	0.209	0.208	0.202	0.197	0.209	3.84	
C	1,2-Dichloropropane	0.424	0.397	0.426	0.436	0.439	0.416	0.398	0.376	0.348	0.407	7.40	<30%
#													
T	Trichloroethene	0.457	0.427	0.444	0.433	0.433	0.427	0.408	0.396	0.376	0.422	5.91	
T	Bromodichloromethane	0.553	0.560	0.557	0.569	0.585	0.548	0.523	0.522	0.494	0.546	5.08	
	2-Chloroethyl vinylether	____	____	0.071	0.089	0.112	0.122	0.132	0.136	0.138	0.114	22.44	L
T	cis-1,3-Dichloropropene	0.467	0.421	0.469	0.532	0.570	0.585	0.571	0.565	0.539	0.524	11.05	
T	4-Methyl-2-pentanone (MIBK)	____	0.182	0.197	0.216	0.236	0.228	0.250	0.247	0.249	0.225	11.25	
T	trans-1,3-Dichloropropene	0.310	0.321	0.374	0.423	0.459	0.467	0.463	0.467	0.457	0.416	15.46	L
T	1,1,2-Trichloroethane	0.250	0.247	0.264	0.248	0.261	0.249	0.247	0.244	0.242	0.250	2.97	
S	Toluene-d8 (surr)	1.136	1.109	1.103	1.119	1.104	1.117	1.143	1.127	1.114	1.119	1.25	
C	Toluene	0.920	0.869	0.879	0.913	0.954	0.922	0.887	0.861	0.803	0.890	4.94	<30%
#													
I	Chlorobenzene-d5	----------ISTD----------											
T	1,3-Dichloropropane	0.536	0.485	0.550	0.546	0.550	0.539	0.526	0.522	0.490	0.527	4.67	
T	2-Hexanone	____	0.181	0.182	0.176	0.190	0.200	0.202	0.231	0.237	0.200	11.48	
T	Dibromochloromethane	0.347	0.358	0.391	0.368	0.394	0.389	0.390	0.393	0.381	0.379	4.54	
T	1,2-Dibromoethane	0.272	0.298	0.288	0.298	0.323	0.313	0.313	0.315	0.312	0.303	5.33	
T	Tetrachloroethene	0.354	0.363	0.385	0.371	0.387	0.381	0.358	0.360	0.348	0.368	3.90	
T	1,1,1,2-Tetrachloroethane	0.435	0.396	0.395	0.426	0.436	0.421	0.402	0.407	0.395	0.412	4.14	
P	Chlorobenzene	1.354	1.261	1.283	1.238	1.279	1.264	1.174	1.144	1.059	1.228	7.21	
C	Ethylbenzene	1.783	1.855	1.951	2.030	2.162	2.117	1.949	1.873	1.664	1.931	8.21	<30%
#													
T	m,p-Xylene	0.616	0.683	0.765	0.781	0.845	0.845	0.800	0.782	0.737	0.762	9.73	
T	Styrene	0.809	0.863	1.071	1.184	1.293	1.303	1.235	1.203	1.115	1.120	15.88	L
T	o-Xylene	0.626	0.724	0.790	0.809	0.820	0.827	0.765	0.744	0.690	0.755	8.83	
S	4-Bromofluorobenzene (surr)	0.506	0.504	0.519	0.513	0.518	0.520	0.533	0.518	0.478	0.512	3.00	
I	1,4-Dichlorobenzene-d4	----------ISTD----------											
P	Bromoform	0.402	0.382	0.401	0.423	0.452	0.461	0.474	0.496	0.497	0.443	9.66	
P	1,1,2,2-Tetrachloroethane	0.729	0.737	0.708	0.661	0.673	0.656	0.619	0.602	0.555	0.660	9.15	

T	1,2,3-Trichloropropane	0.159	0.178	0.184	0.173	0.180	0.188	0.182	0.187	0.186	0.180	5.10
T	trans-1,4-Dichloro-2-butene		0.185	0.202	0.208	0.236	0.243	0.242	0.247	0.236	0.225	10.35
T	Isopropylbenzene	2.707	3.108	3.570	3.788	4.097	4.040	3.814	3.779	3.420	3.592	12.55
T	Bromobenzene	0.886	0.853	0.887	0.901	0.962	0.962	0.939	0.950	0.918	0.918	4.22
T	n-Propylbenzene	3.944	4.264	4.625	4.883	5.160	5.083	4.766	4.644	4.053	4.602	9.41
T	2-Chlorotoluene	3.112	2.796	3.075	3.132	3.242	3.207	2.944	2.963	2.652	3.014	6.45
T	4-Chlorotoluene	2.762	2.878	3.159	3.182	3.317	3.270	3.015	2.994	2.676	3.028	7.40
T	1,3,5-Trimethylbenzene	3.054	2.992	3.374	3.586	3.671	3.684	3.366	3.353	2.962	3.338	8.44
T	tert-Butylbenzene	1.876	2.255	2.519	2.706	2.873	2.856	2.638	2.612	2.468	2.534	12.33
T	1,2,4-Trimethylbenzene	2.843	3.083	3.413	3.651	3.839	3.774	3.452	3.387	3.066	3.390	10.01
T	sec-Butylbenzene	3.857	3.931	4.262	4.480	4.652	4.549	4.087	3.999	3.554	4.152	8.72
T	1,3-Dichlorobenzene	1.805	1.890	1.918	1.853	1.904	1.848	1.745	1.760	1.662	1.821	4.67
T	1,4-Dichlorobenzene	1.890	1.920	1.926	1.839	1.892	1.831	1.726	1.707	1.639	1.819	5.70
T	4-Isopropyltoluene	3.324	3.285	3.482	3.603	3.719	3.618	3.277	3.214	2.922	3.383	7.33
T	1,2-Dichlorobenzene	1.487	1.485	1.517	1.582	1.623	1.629	1.475	1.465	1.438	1.523	4.67
T	n-Butylbenzene	2.868	2.936	3.303	3.440	3.606	3.518	3.147	3.006	2.708	3.170	9.91
T	1,2-Dibromo-3-chloropropane		0.089	0.080	0.085	0.090	0.095	0.087	0.080	0.090	0.087	6.16
T	1,2,4-Trichlorobenzene	0.862	0.838	0.929	1.023	1.141	1.164	1.019	0.978	1.037	0.999	11.18
T	Naphthalene			0.995	1.249	1.507	1.539	1.388	1.321	1.371	1.339	13.58
T	Hexachlorobutadiene		0.579	0.547	0.524	0.546	0.529	0.453	0.442	0.455	0.509	10.21
T	1,2,3-Trichlorobenzene		0.630	0.704	0.814	0.893	0.884	0.789	0.736	0.731	0.773	11.68

(#) = Out of Range

031212.M Wed Mar 14 10:32:44 2012

Calibration Status Report GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	5	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D
2	2	10	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D
3	3	20	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D
4	4	50	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D
5	5	100	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D
6	6	250	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D
7	7	500	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D
8	8	1000	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D
9	9	2000	200	C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 13 09:25 2012	Mar 13 08:57 19112	12 Mar 2012 5:35 pm
2	2	Mar 13 09:25 2012	Mar 13 09:12 19112	12 Mar 2012 6:06 pm
3	3	Mar 13 09:25 2012	Mar 13 09:13 19112	12 Mar 2012 6:37 pm
4	4	Mar 13 09:25 2012	Mar 13 09:14 19112	12 Mar 2012 7:09 pm
5	5	Mar 13 09:25 2012	Mar 13 09:15 19112	12 Mar 2012 7:40 pm
6	6	Mar 13 09:26 2012	Mar 13 09:18 19112	12 Mar 2012 8:12 pm
7	7	Mar 13 09:26 2012	Mar 13 09:19 19112	12 Mar 2012 8:43 pm
8	8	Mar 13 09:26 2012	Mar 13 09:22 19112	12 Mar 2012 9:15 pm
9	9	Mar 13 09:26 2012	Mar 13 09:23 19112	12 Mar 2012 9:47 pm

031212.M Wed Mar 14 10:33:41 2012

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MS 7/14/12

Compound List Report GCMS9

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
Total Cpnds : 88

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	7.57	1.000	A	0	A	B
2	T	Ethanol	45	6.18	0.816	A	1	A	B
3	T	tert-Butanol (TBA)	59	7.68	1.014	A	1	A	B
4	I	Pentafluorobenzene	168	10.69	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.90	0.458	A	1	A	B
6	P	Chloromethane	50	5.13	0.480	A	1	A	B
7	C	Vinyl Chloride	62	5.48	0.513	A	1	A	B
8	T	1,3-Butadiene	54	5.55	0.519	A	2	A	B
9	T	Bromomethane	94	6.01	0.562	A	1	A	B
10	T	Chloroethane	64	6.20	0.580	A	2	A	B
11		Acrolein	56	7.01	0.656	A	1	A	B
12	T	Trichlorofluoromethane	101	7.08	0.663	A	1	A	B
13	T	Acetone	43	7.11	0.665	A	1	A	L
14		Acrylonitrile	53	7.61	0.712	A	1	A	B
15	T	Iodomethane	142	7.78	0.728	A	2	A	B
16	C	1,1-Dichloroethene	96	7.72	0.722	A	2	A	L
17	T	Methylene Chloride	84	7.87	0.736	A	2	A	B
18	T	Freon 113	101	8.00	0.749	A	2	A	B
19	T	Carbon Disulfide	76	8.30	0.776	A	2	A	B
20	T	trans-1,2-Dichloroethene	96	8.74	0.817	A	2	A	B
21	T	MTBE	73	8.87	0.830	A	1	A	B
22	P	1,1-Dichloroethane	63	9.06	0.847	A	2	A	B
23	T	Vinyl Acetate	43	9.20	0.860	A	1	A	B
24	T	n-Hexane	86	9.55	0.894	A	1	A	B
25	T	2-Butanone (MEK)	72	9.59	0.897	A	2	A	B
26	T	Diisopropylether (DIPE)	45	9.59	0.897	A	3	A	B
27	T	cis-1,2-Dichloroethene	96	9.78	0.915	A	2	A	B
28	T	Bromochloromethane	128	9.99	0.935	A	2	A	B
29	C	Chloroform	83	10.05	0.940	A	2	A	B
30	T	2,2-Dichloropropane	77	10.15	0.950	A	2	A	B
31	T	(ETBE) 2-Ethoxy-2-methyl propa	59	10.10	0.945	A	2	A	B
32	S	Dibromofluoromethane(surr)	113	10.20	0.954	A	0	A	B
33	T	Tetrahydrofuran	72	10.47	0.980	A	2	A	B
34	T	1,2-Dichloroethane	62	10.89	1.018	A	2	A	B
35	T	1,1,1-Trichloroethane	97	11.02	1.031	A	2	A	B
36	T	(TAME) tert-Amyl methyl ether	73	11.71	1.095	A	3	A	R
37	I	1,4-Difluorobenzene	114	11.81	1.000	A	0	A	B
38	T	1,1-Dichloropropene	75	11.25	0.952	A	2	A	B
39	T	Carbon Tetrachloride	117	11.49	0.973	A	2	A	B
40	T	Benzene	78	11.54	0.977	A	1	A	B
41	T	Dibromomethane	93	12.27	1.039	A	2	A	B
42	C	1,2-Dichloropropane	63	12.31	1.042	A	2	A	B
43	T	Trichloroethene	95	12.35	1.046	A	3	A	B
44	T	Bromodichloromethane	83	12.42	1.051	A	2	A	B
45		2-Chloroethyl vinylether	63	12.93	1.095	L	1	A	B
46	T	cis-1,3-Dichloropropene	75	13.24	1.121	A	2	A	B
47	T	4-Methyl-2-pentanone (MIBK)	43	13.39	1.133	A	1	A	L
48	T	trans-1,3-Dichloropropene	75	13.81	1.169	L	2	A	B
49	T	1,1,2-Trichloroethane	97	14.03	1.188	A	2	A	Q
50	S	Toluene-d8 (surr)	98	14.19	1.201	A	0	A	B
51	C	Toluene	92	14.29	1.210	A	2	A	Q
52	I	Chlorobenzene-d5	117	16.14	1.000	A	0	A	B
53	T	1,3-Dichloropropane	76	14.35	0.889	A	1	A	B
54	T	2-Hexanone	43	14.53	0.900	A	2	A	B
55	T	Dibromochloromethane	129	14.72	0.912	A	1	A	B
56	T	1,2-Dibromoethane	107	15.06	0.933	A	1	A	B
57	T	Tetrachloroethene	164	15.28	0.946	A	2	A	B
58	T	1,1,1,2-Tetrachloroethane	131	16.08	0.996	A	2	A	B
59	P	Chlorobenzene	112	16.19	1.003	A	2	A	B

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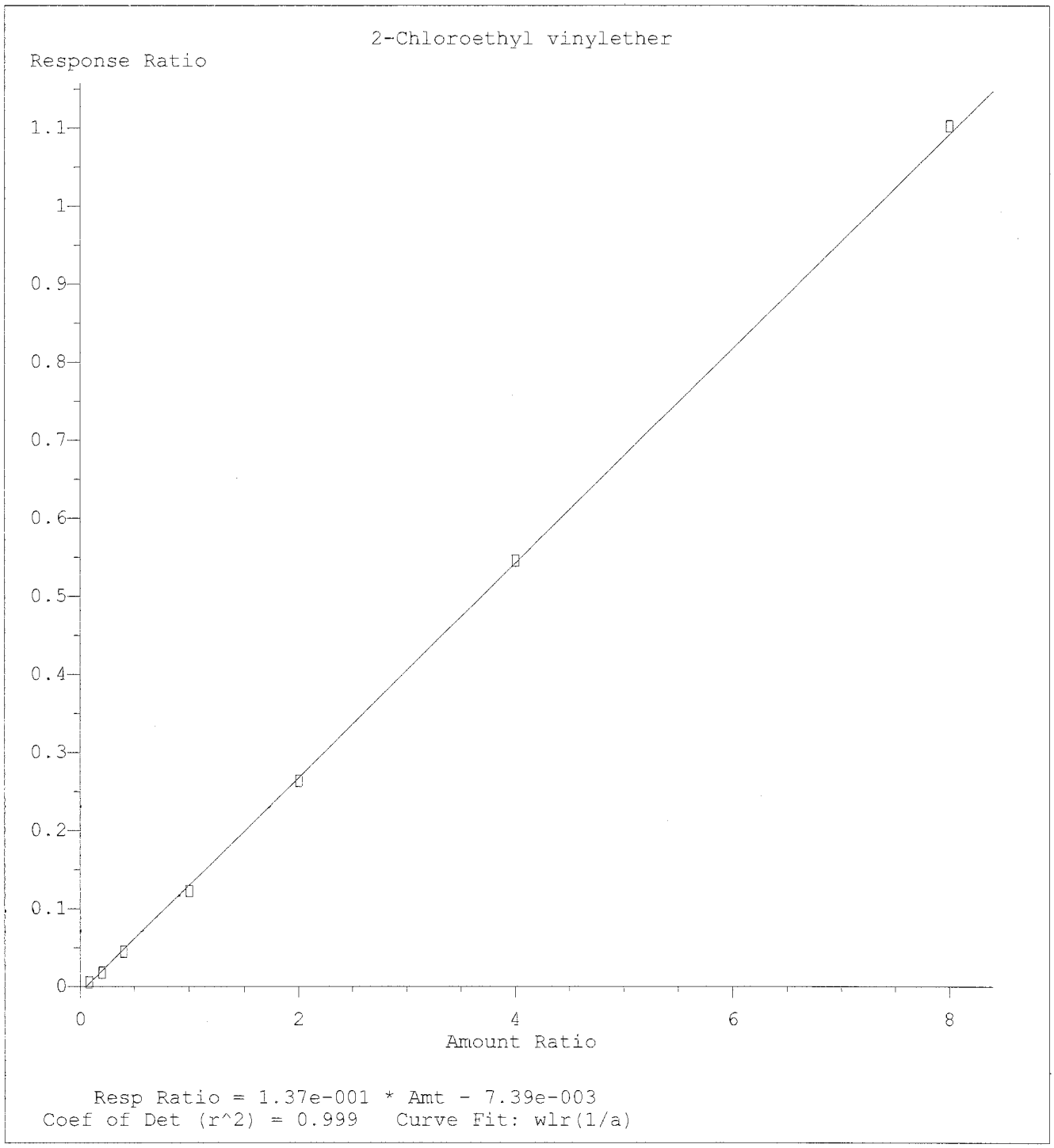
60	C	Ethylbenzene	91	16.45	1.019	A	1	A	B
61	T	m,p-Xylene	106	16.71	1.035	A	2	A	B
62	T	Styrene	104	17.16	1.063	L	3	A	B
63	T	o-Xylene	106	17.26	1.069	A	2	A	B
64	S	4-Bromofluorobenzene (surr)	95	17.82	1.104	A	2	A	B
65	I	1,4-Dichlorobenzene-d4	152	19.59	1.000	A	2	A	B
66	P	Bromoform	173	16.89	0.862	A	1	A	B
67	P	1,1,2,2-Tetrachloroethane	83	17.25	0.880	A	2	A	B
68	T	1,2,3-Trichloropropane	110	17.45	0.891	A	2	A	R
69	T	trans-1,4-Dichloro-2-butene	53	17.47	0.892	A	2	A	B
70	T	Isopropylbenzene	105	17.76	0.907	A	1	A	L
71	T	Bromobenzene	156	18.12	0.925	A	2	A	B
72	T	n-Propylbenzene	91	18.37	0.938	A	1	A	B
73	T	2-Chlorotoluene	91	18.51	0.945	A	1	A	R
74	T	4-Chlorotoluene	91	18.62	0.951	A	1	A	R
75	T	1,3,5-Trimethylbenzene	105	18.76	0.958	A	1	A	B
76	T	tert-Butylbenzene	119	19.14	0.977	A	2	A	B
77	T	1,2,4-Trimethylbenzene	105	19.29	0.985	A	1	A	B
78	T	sec-Butylbenzene	105	19.43	0.992	A	1	A	R
79	T	1,3-Dichlorobenzene	146	19.54	0.997	A	2	A	R
80	T	1,4-Dichlorobenzene	146	19.62	1.002	A	2	A	R
81	T	4-Isopropyltoluene	119	19.65	1.003	A	2	A	R
82	T	1,2-Dichlorobenzene	146	20.06	1.024	A	2	A	B
83	T	n-Butylbenzene	91	20.15	1.028	A	2	A	B
84	T	1,2-Dibromo-3-chloropropane	75	20.63	1.053	A	2	A	B
85	T	1,2,4-Trichlorobenzene	180	22.36	1.142	A	2	A	B
86	T	Naphthalene	128	22.72	1.160	A	1	A	B
87	T	Hexachlorobutadiene	225	22.76	1.162	A	2	A	B
88	T	1,2,3-Trichlorobenzene	180	22.99	1.173	A	2	A	B

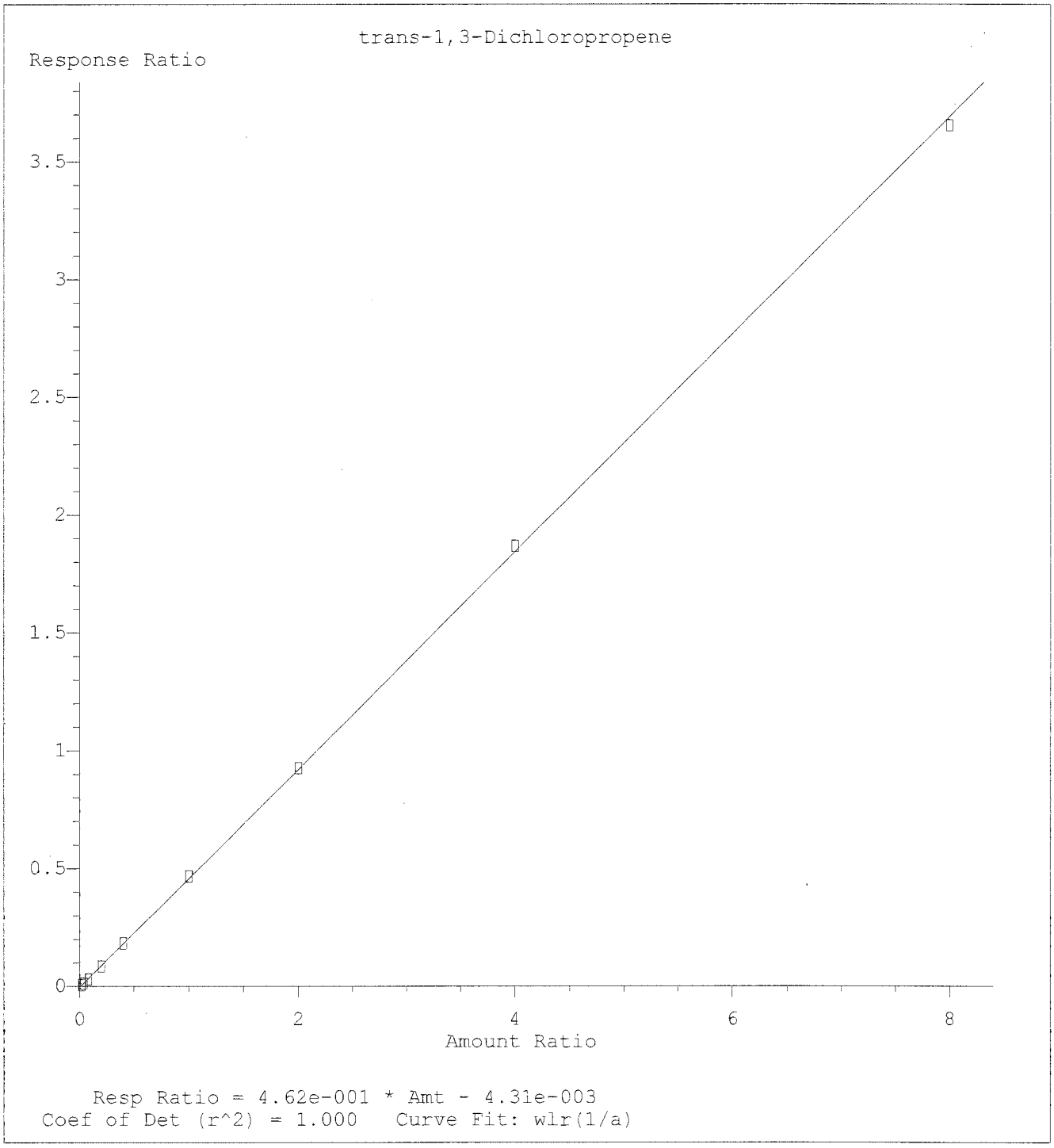
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031212.M Wed Mar 14 10:33:52 2012



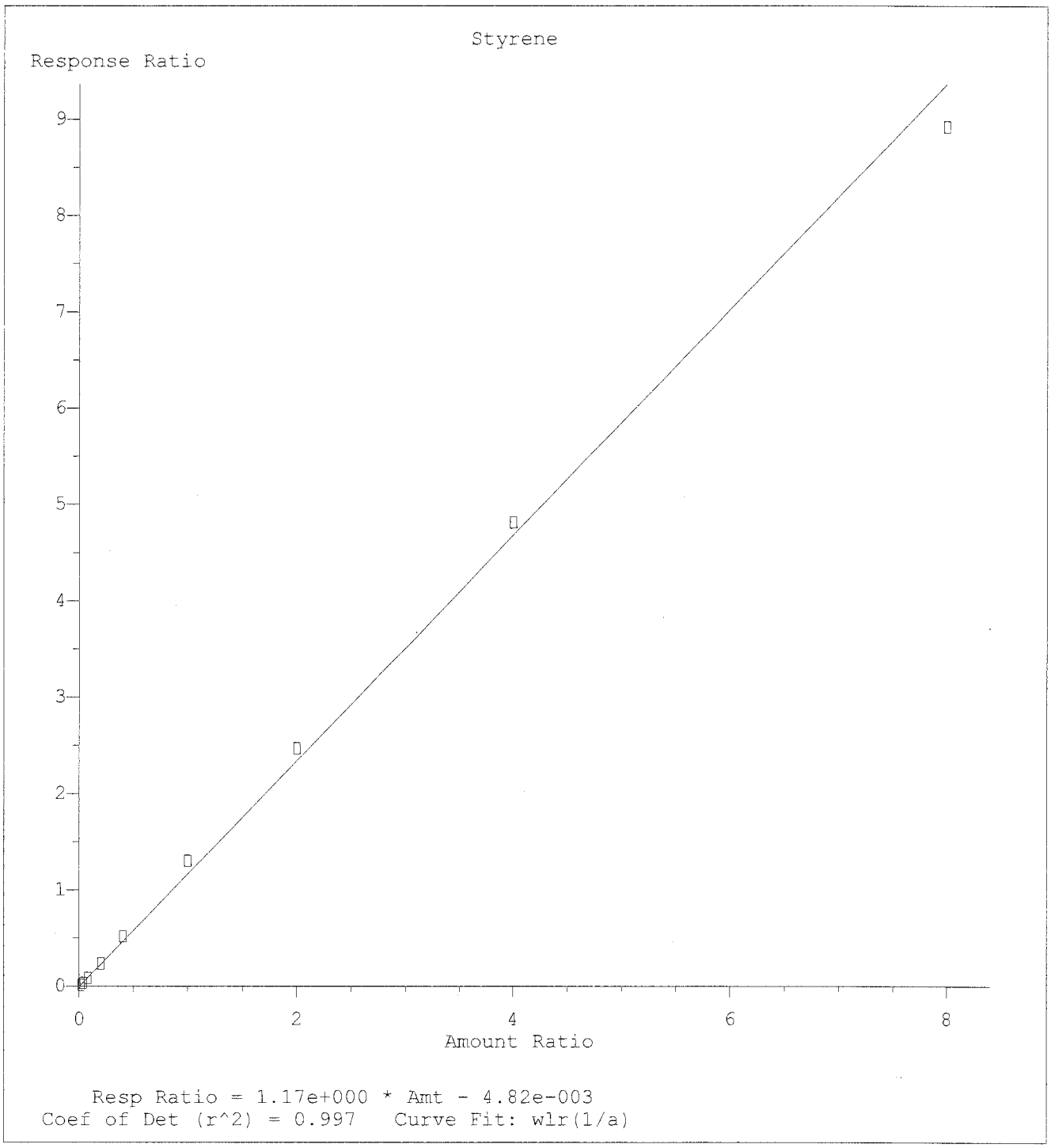
Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

v3/14/12



Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

3/14/12



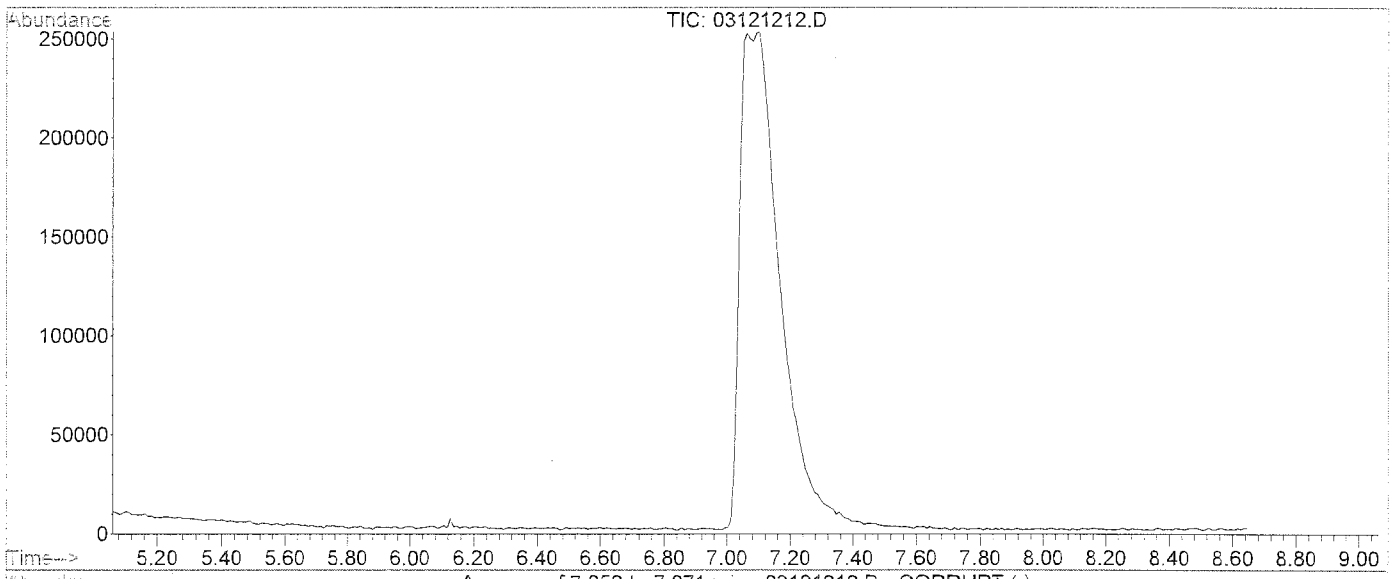
Method Name: C:\HPCHEM\1\GCMS9\METHODS\031212.M
Calibration Table Last Updated: Tue Mar 13 09:29:25 2012

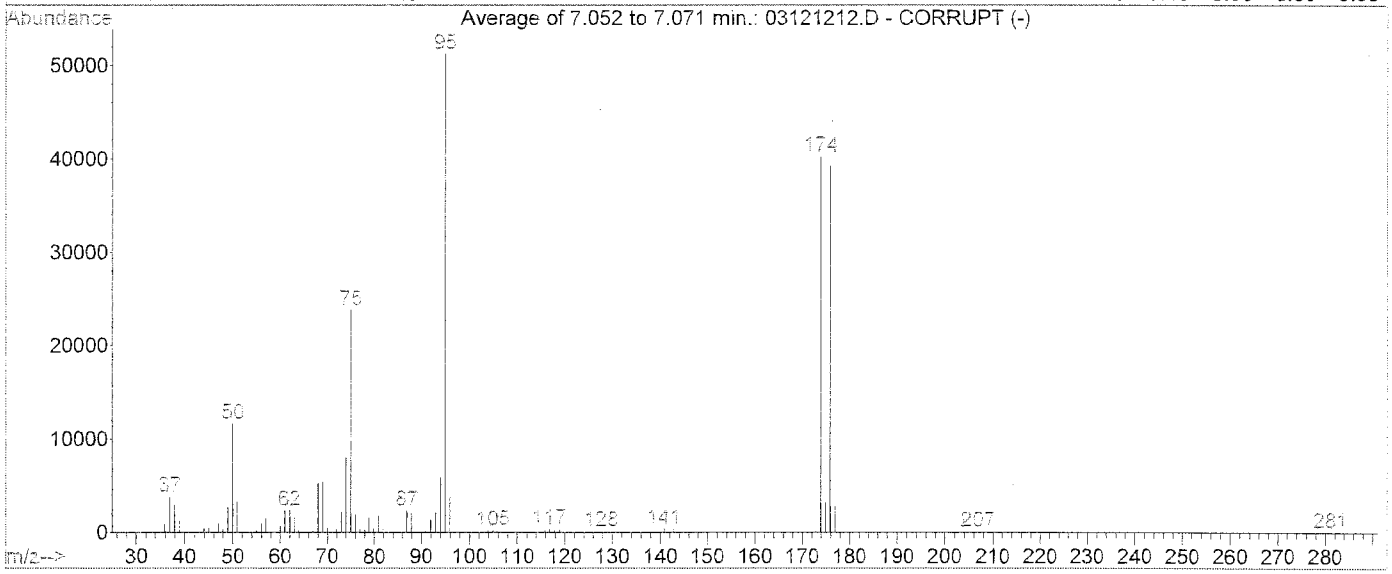
v3/14/12

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121212.D Vial: 1
Acq On : 12 Mar 2012 2:24 pm Operator: ms
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260

✓3/14/12





Spectrum Information: Average of 7.052 to 7.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	11639	PASS
75	95	30	60	46.5	23845	PASS
95	95	100	100	100.0	51245	PASS
96	95	5	9	7.3	3759	PASS
173	174	0.00	2	0.3	106	PASS
174	95	50	100	78.5	40243	PASS
175	174	5	9	7.8	3145	PASS
176	174	95	101	97.4	39197	PASS
177	176	5	9	7.1	2771	PASS

MC 1/14/12

03121212.D 022812.M Wed Mar 14 10:29:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 17:39 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	75566	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	459798	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	698677	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	570478	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	249941	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	271852	26.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.96%	
50) Toluene-d8 (surr)	14.19	98	773416	24.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	276904	23.19 ug/L	0.02
Spiked Amount 25.000			Recovery	= 92.76%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	219	3.05 ug/L #	3
13) Acetone	7.13	43	1717	0.47 ug/L #	59
17) Methylene Chloride	7.86	84	1655	0.11 ug/L #	65
33) Tetrahydrofuran	10.47	72	111	0.17 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	8227	0.37 ug/L #	38
87) Hexachlorobutadiene	22.76	225	1430	0.23 ug/L	98

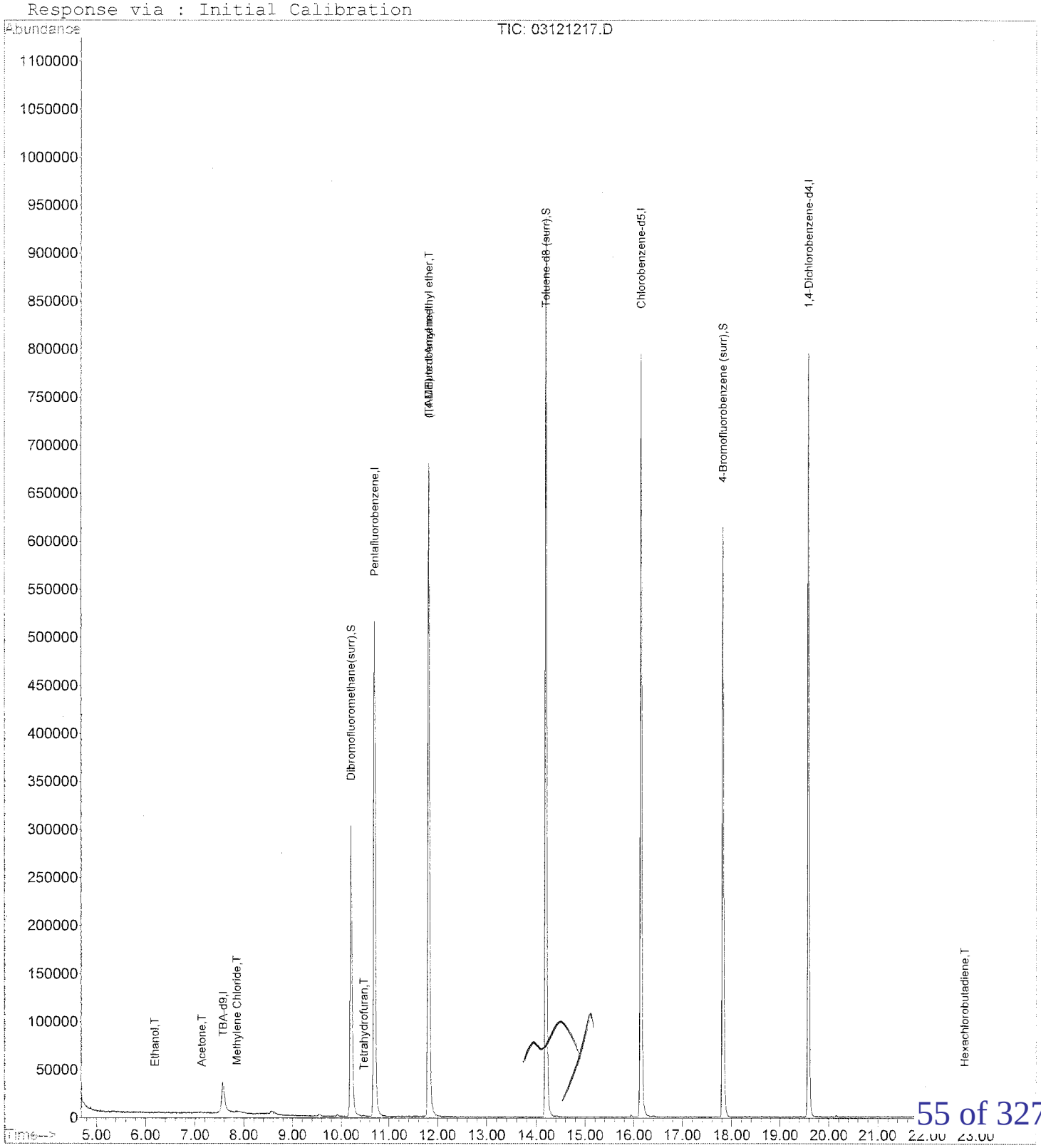
3/14/12

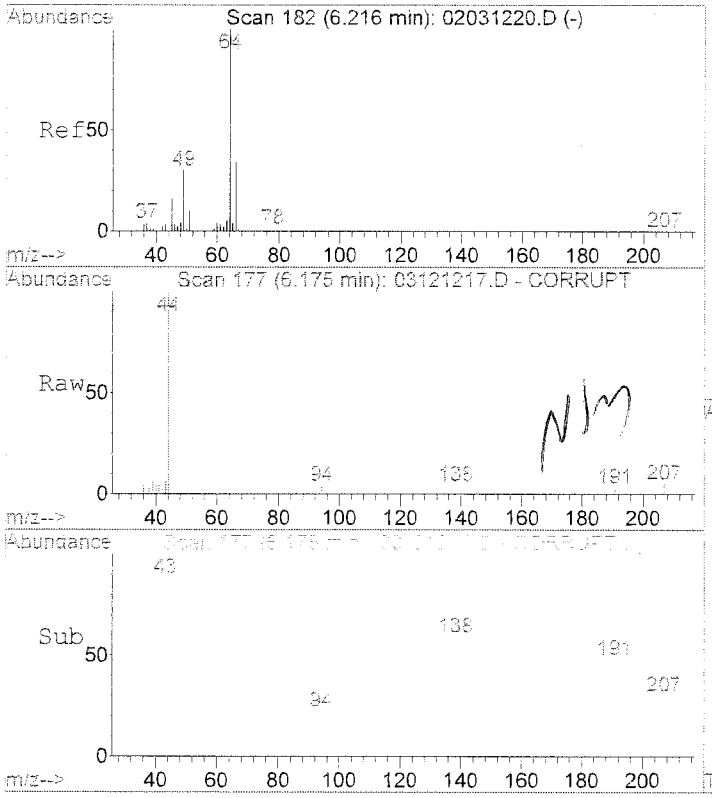
(#) = qualifier out of range (m) = manual integration
03121217.D 022812.M Wed Mar 14 10:29:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 17:39 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

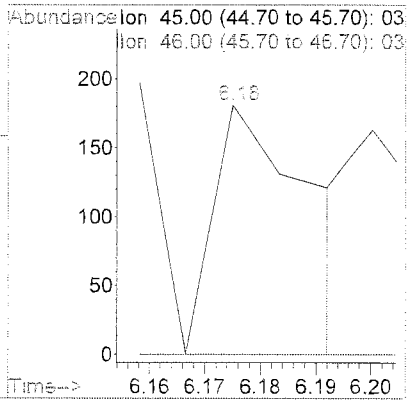


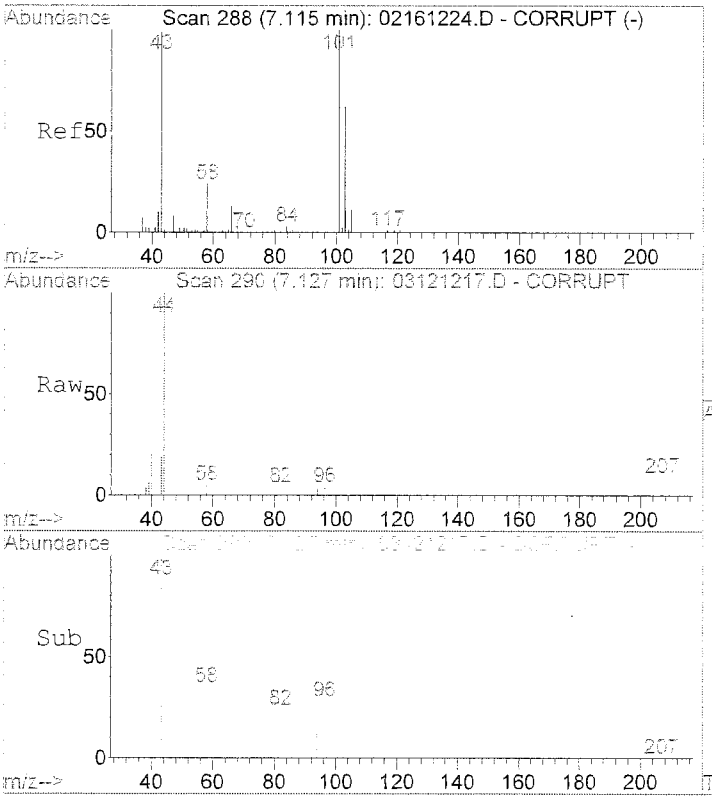


#2
Ethanol
Concen: 3.05 ug/L
RT: 6.18 min Scan# 177
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 45 Resp: 219

Ion	Ratio	Lower	Upper
45	100		
46	0.0	25.4	38.0#

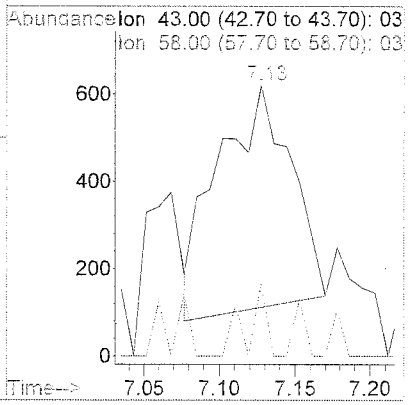


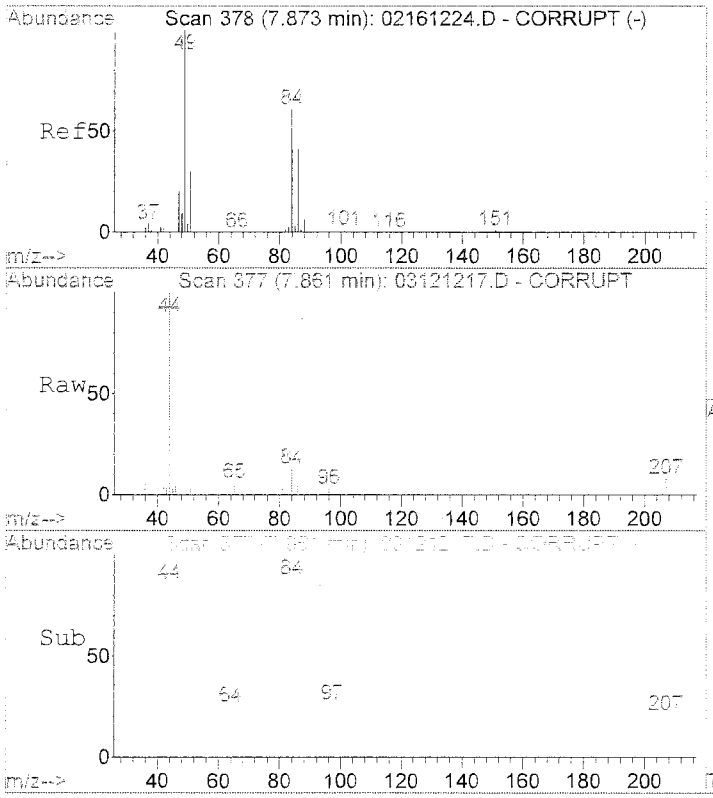


#13
Acetone
Concen: 0.47 ug/L
RT: 7.13 min Scan# 290
Delta R.T. 0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 43 Resp: 1717

Ion	Ratio	Lower	Upper
43	100		
58	3.4	18.6	27.8#

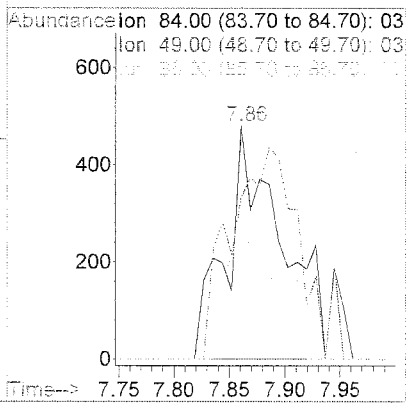


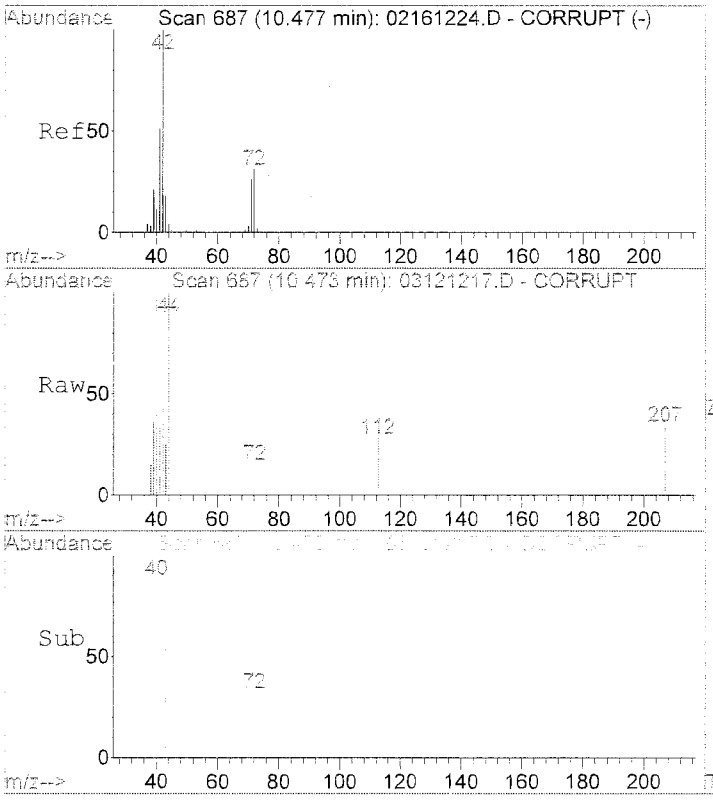


#17
Methylene Chloride
Concen: 0.11 ug/L
RT: 7.86 min Scan# 377
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 84 Resp: 1655

Ion	Ratio	Lower	Upper
84	100		
49	108.0	124.6	187.0#
86	40.1	51.5	77.3#

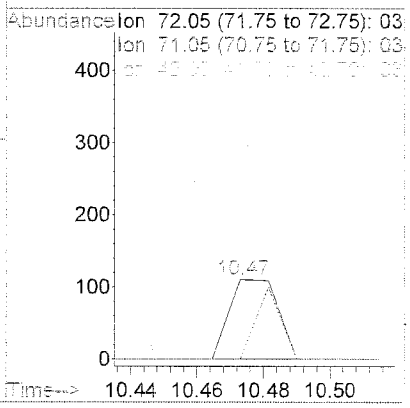


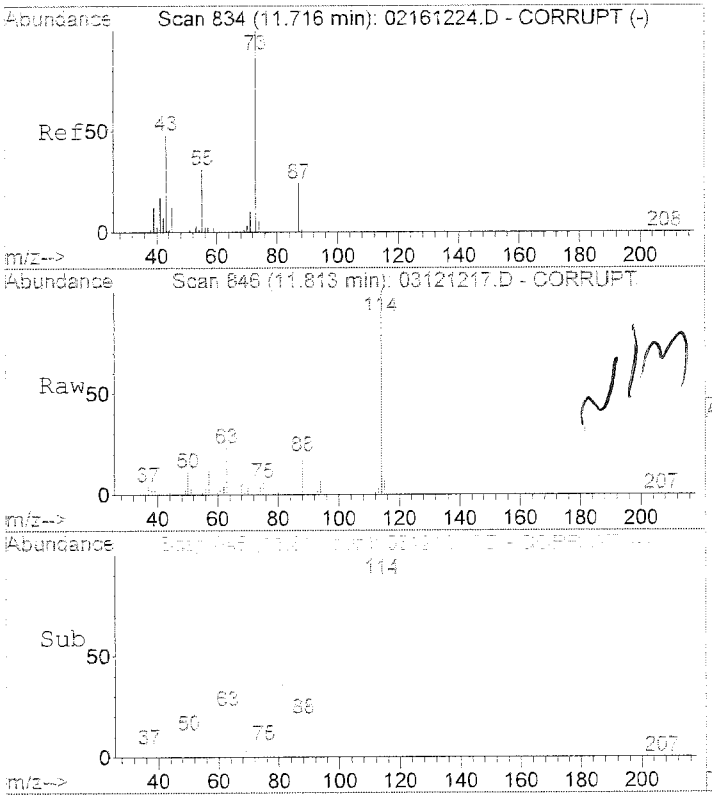


#33
Tetrahydrofuran
Concen: 0.17 ug/L
RT: 10.47 min Scan# 687
Delta R.T. 0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 72 Resp: 111

Ion	Ratio	Lower	Upper
72	100		
71	45.9	79.4	119.4#
42	745.9	301.1	341.1#

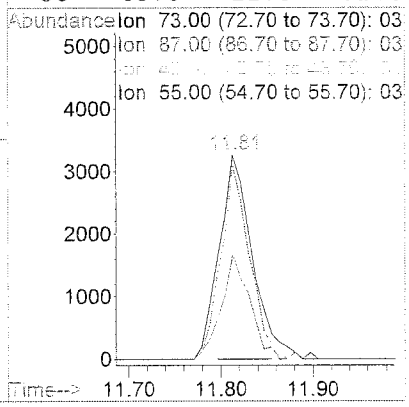


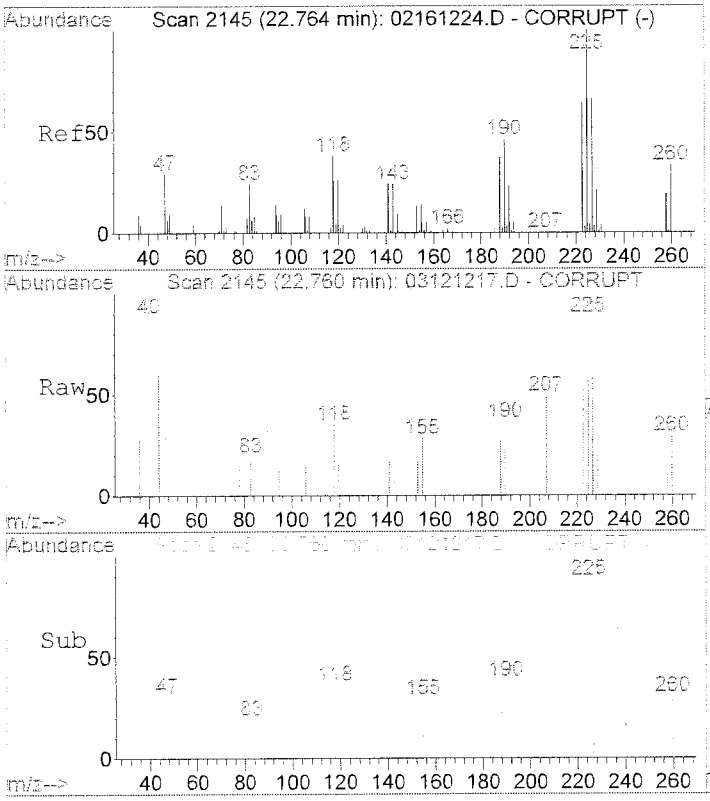


#36
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.11 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 73 Resp: 8227

Ion	Ratio	Lower	Upper
73	100		
87	81.6	3.6	43.6#
43	7.2	28.9	68.9#
55	43.3	11.3	51.3

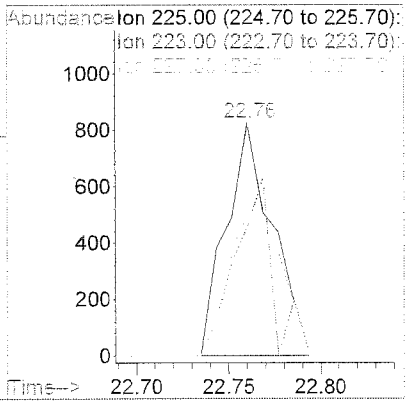




#87
Hexachlorobutadiene
Concen: 0.23 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:225 Resp: 1430

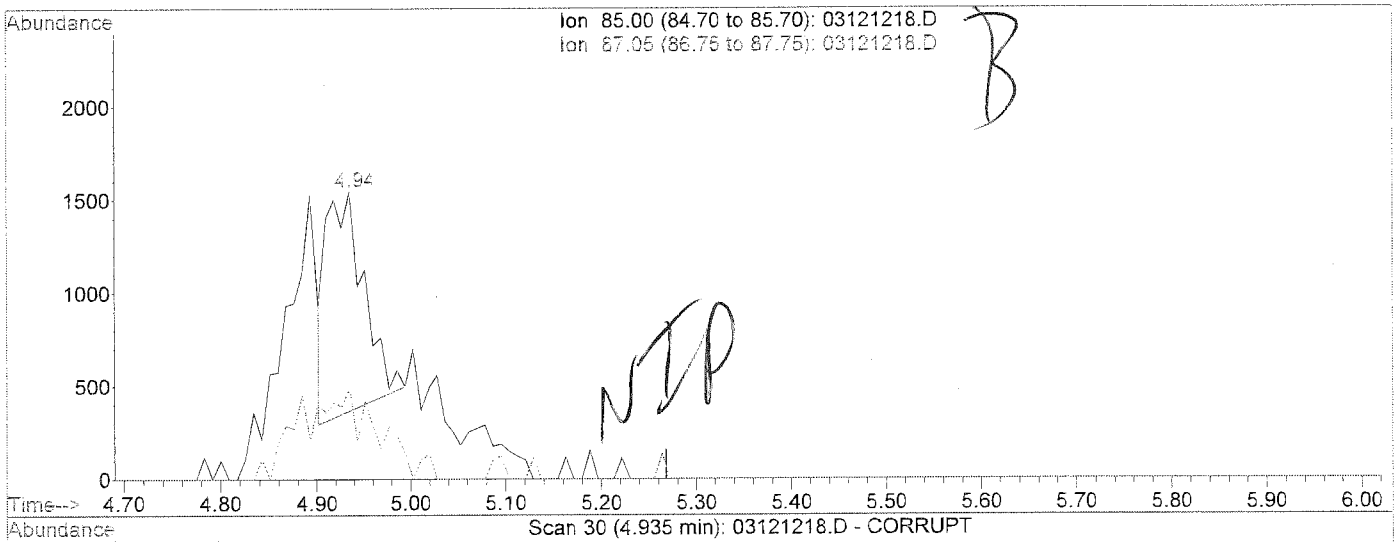
Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.2	73.8
227	65.5	50.5	75.7

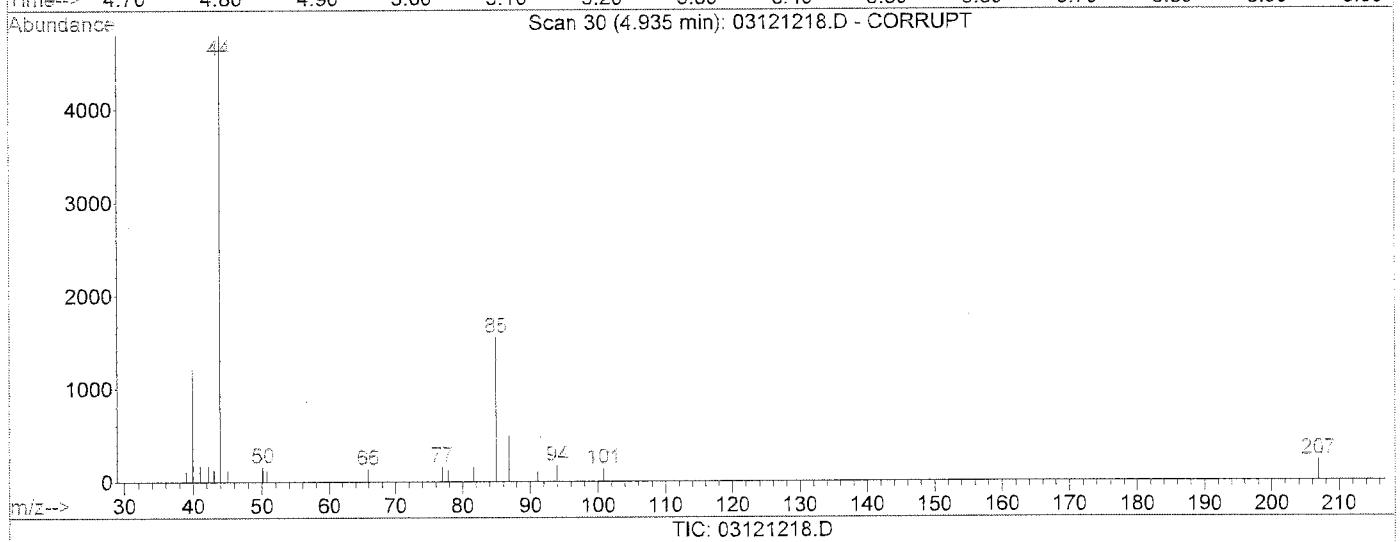


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.17ug/L

response 3375

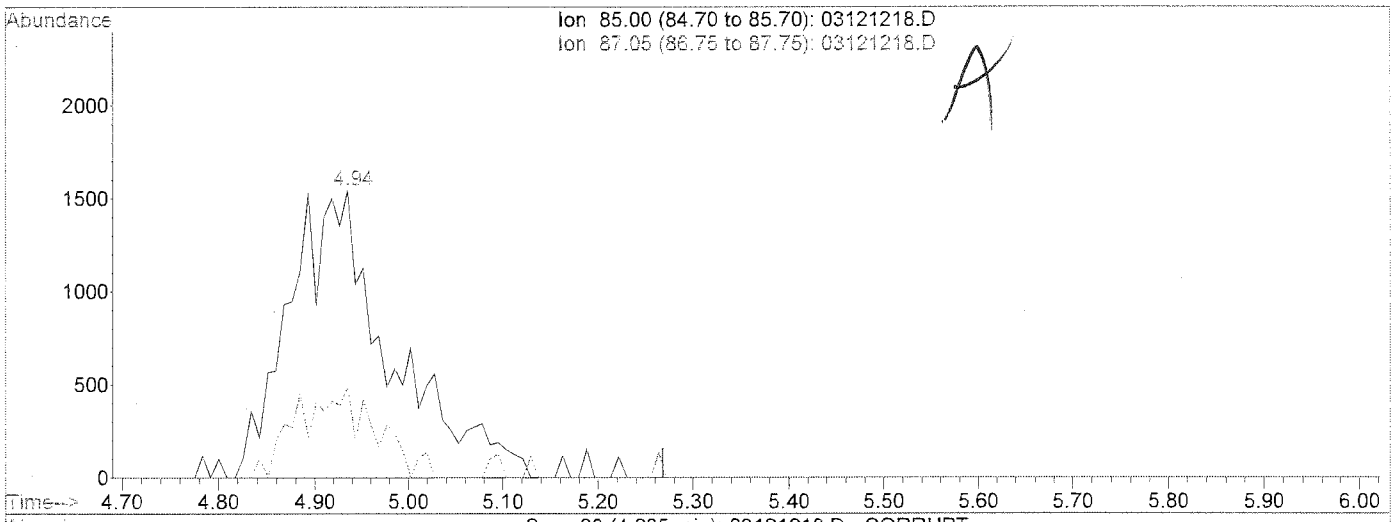
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	46.84
0.00	0.00	0.00
0.00	0.00	0.00

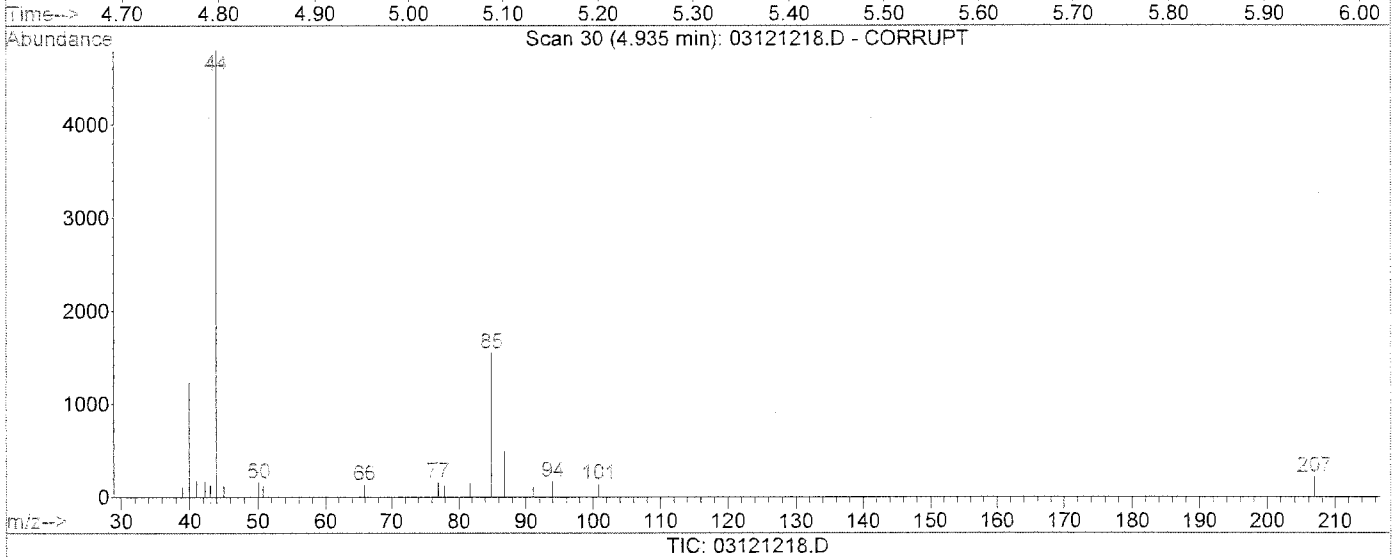
03121218.D 022812.M Tue Mar 13 08:56:34 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.58ug/L m

response 11482

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	13.77
0.00	0.00	0.00
0.00	0.00	0.00

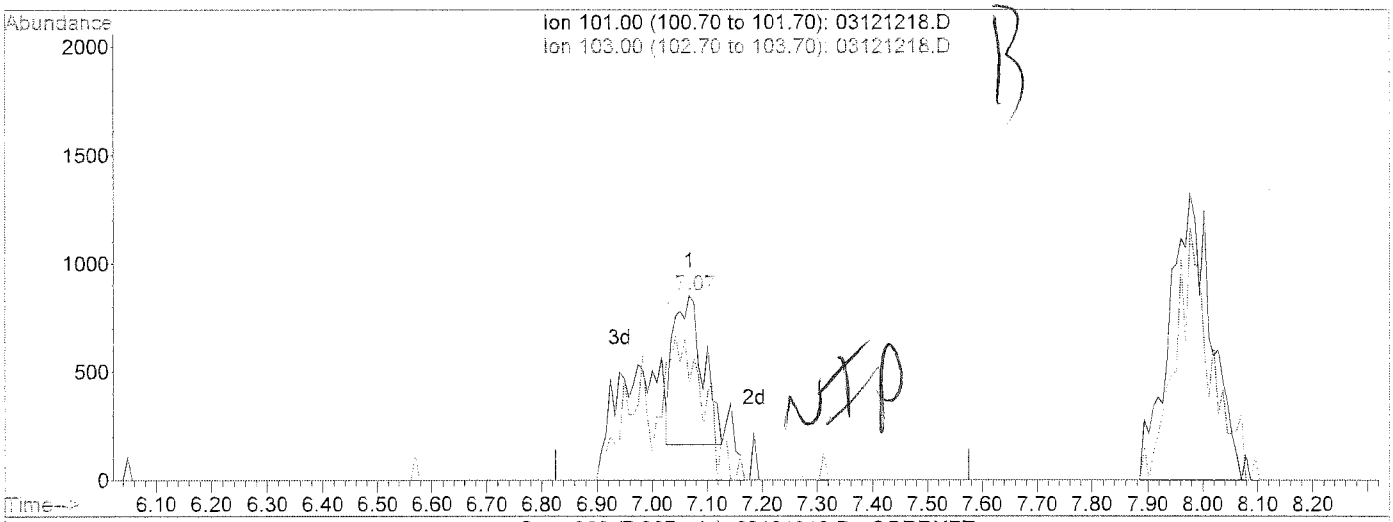
✓3/14/12

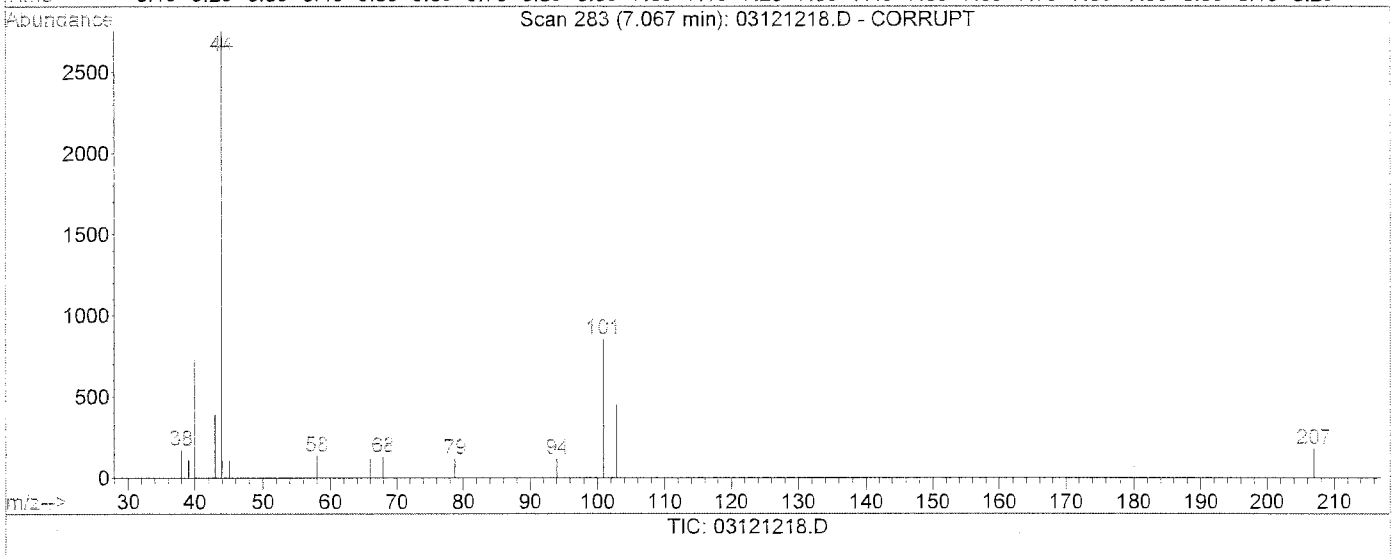
03121218.D 022812.M Tue Mar 13 08:56:38 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

3/14/12

7.07min 0.16ug/L

response 2572

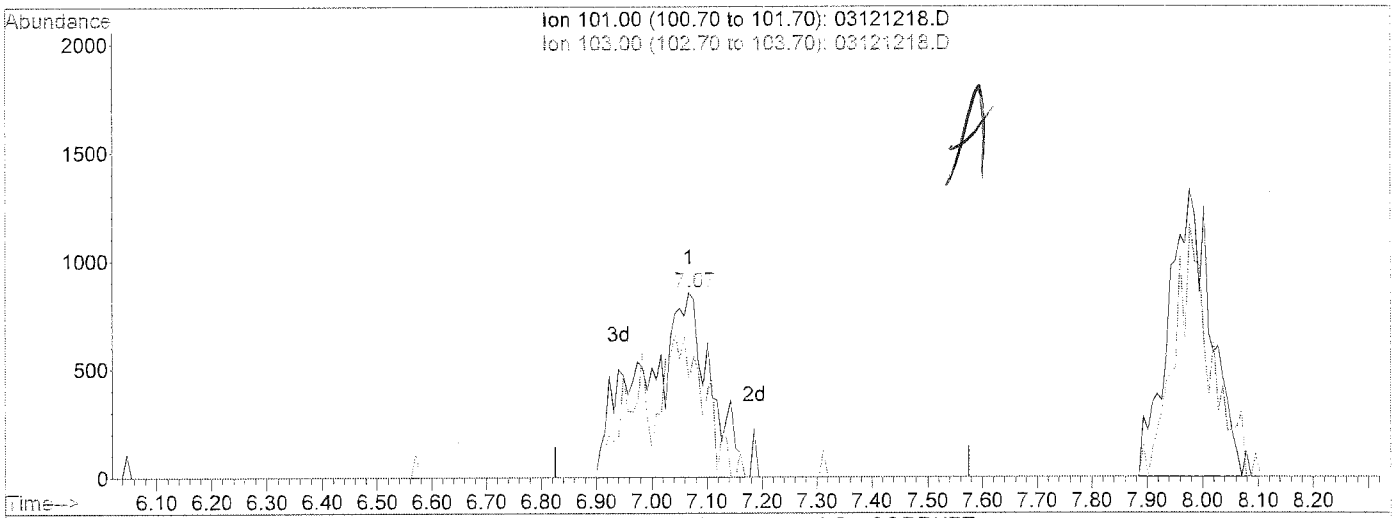
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	34.54#
0.00	0.00	0.00
0.00	0.00	0.00

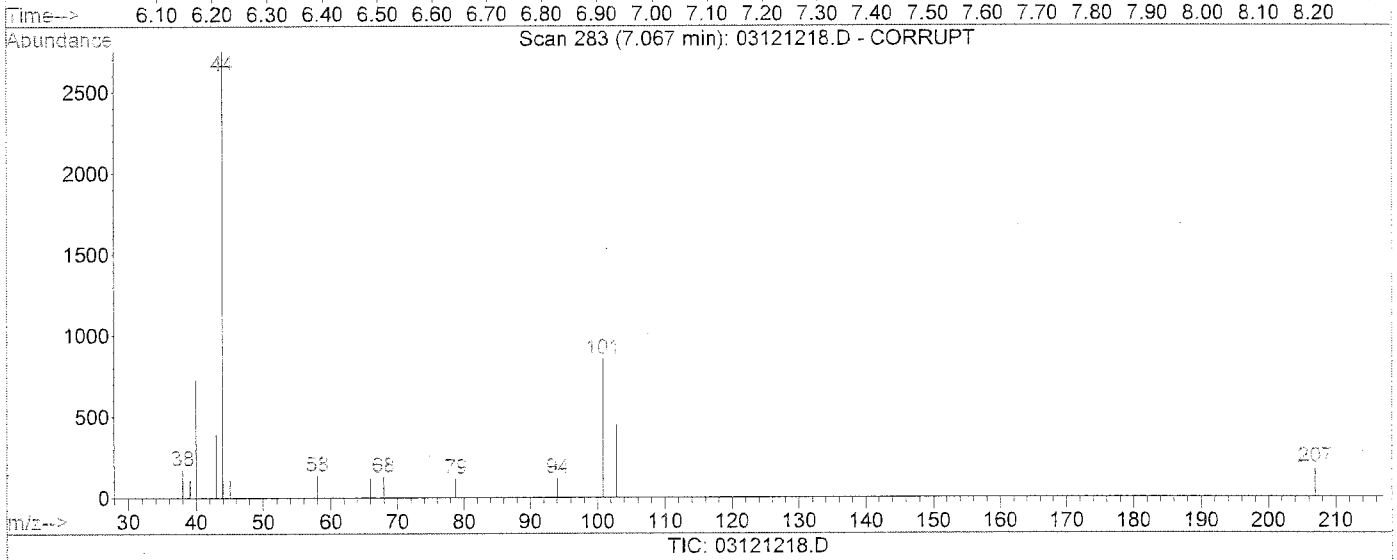
03121218.D 022812.M Tue Mar 13 08:56:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.43ug/L m

response 7132

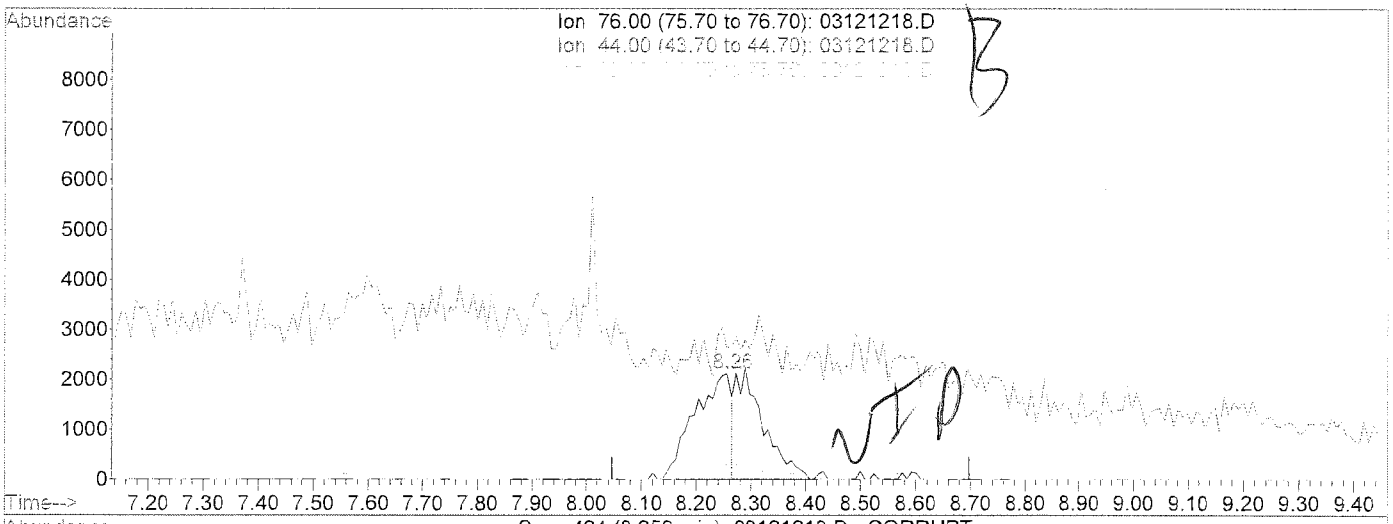
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	52.52
0.00	0.00	0.00
0.00	0.00	0.00

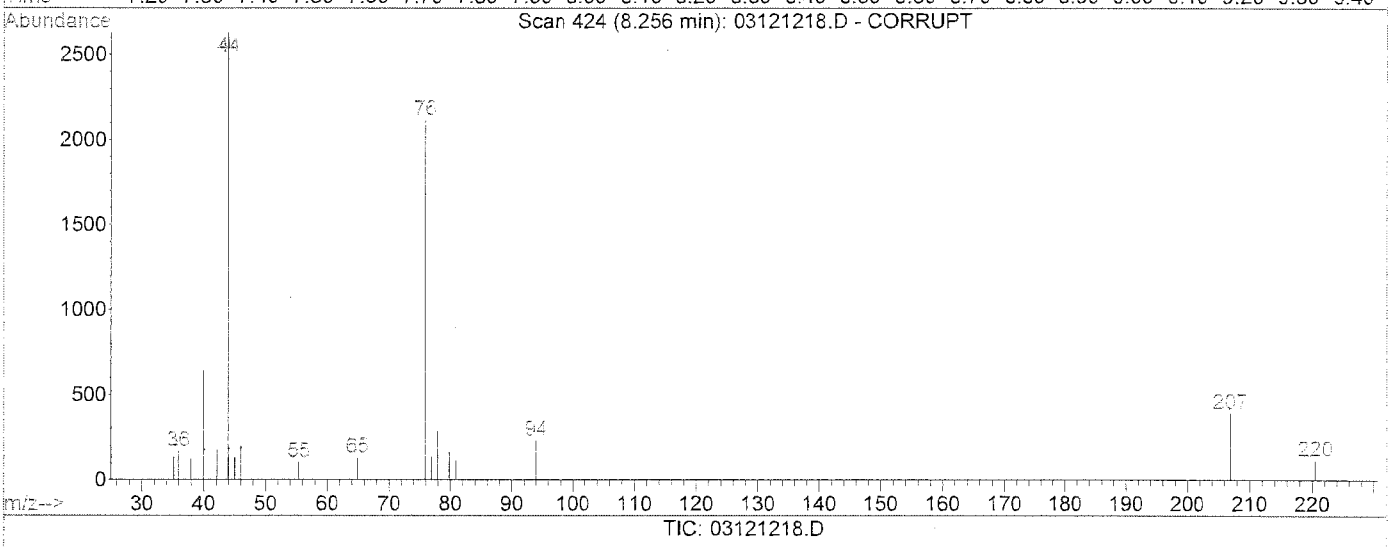
03121218.D 022812.M Tue Mar 13 08:56:55 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





(19) Carbon Disulfide (T)

8.26min 0.30ug/L

response 9698

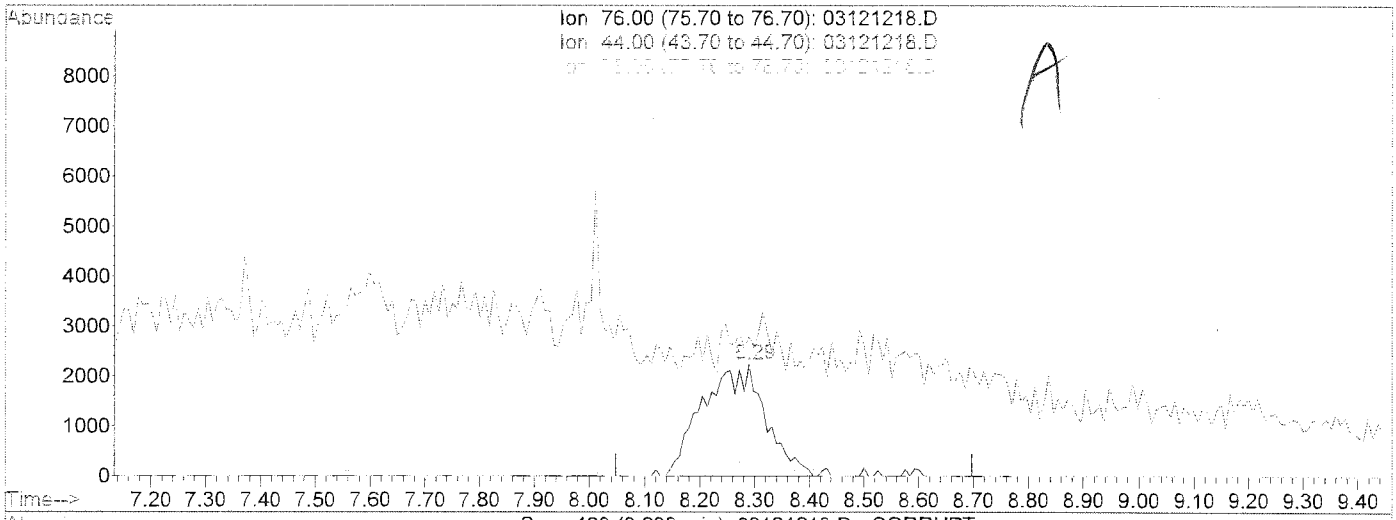
Ion	Exp%	Act%
76.00	100	100
44.00	18.70	16.64
78.00	4.20	4.05
0.00	0.00	0.00

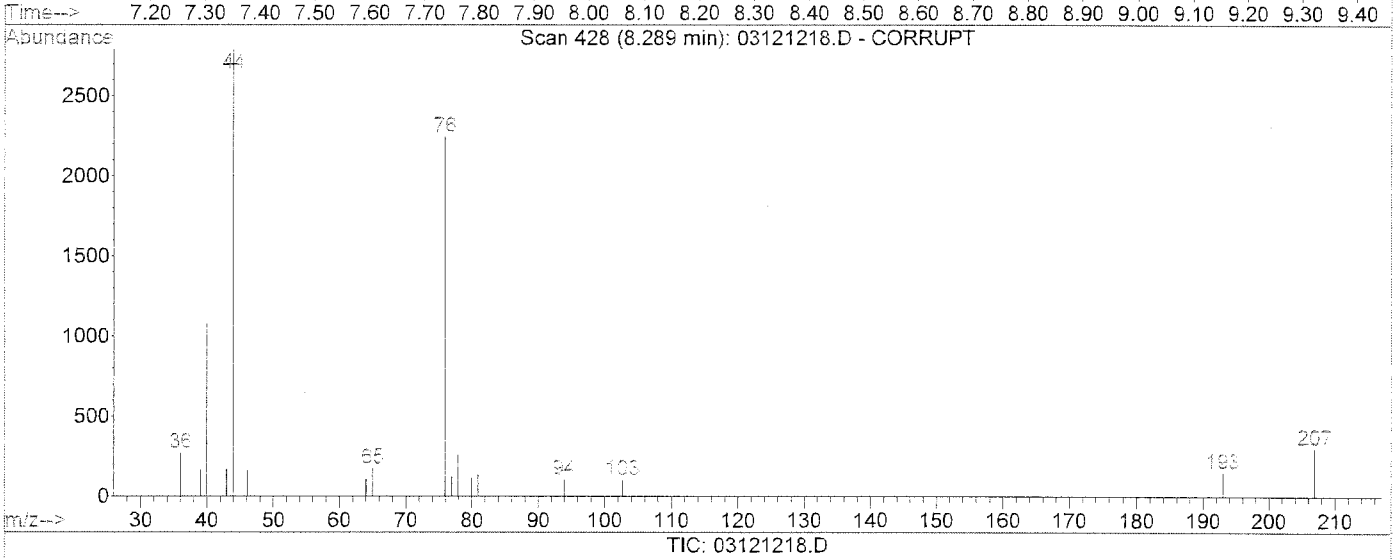
03121218.D 022812.M Tue Mar 13 08:57:04 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.29min 0.54ug/L m

response 17666

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	9.14#
78.00	4.20	2.22#
0.00	0.00	0.00

✓3/14/12

03121218.D 022812.M Tue Mar 13 08:57:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	66949	200.00 ug/L	0.02
4) Pentafluorobenzene	10.69	168	449787	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	704861	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	561546	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	258325	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	273468	27.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.96%	
50) Toluene-d8 (surr)	14.19	98	800855	25.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.76%	
64) 4-Bromofluorobenzene (surr	17.82	95	283955	24.16 ug/L	0.02
Spiked Amount 25.000			Recovery	= 96.64%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.94	85	11482m	0.58 ug/L	
6) Chloromethane	5.10	50	12448	0.58 ug/L	97
7) Vinyl Chloride	5.42	62	10266	0.60 ug/L	96
8) 1,3-Butadiene	5.53	54	6222	0.58 ug/L #	73
9) Bromomethane	5.97	94	8301	0.64 ug/L #	49
10) Chloroethane	6.19	64	6204	0.58 ug/L #	74
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	7132m	0.43 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	11193	0.57 ug/L #	95
16) 1,1-Dichloroethene	7.71	96	7102	0.58 ug/L	93
17) Methylene Chloride	7.87	84	9848	0.64 ug/L	94
18) Freon 113	7.98	101	7086	0.54 ug/L #	87
19) Carbon Disulfide	8.29	76	17666m	0.54 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	8259	0.57 ug/L	91
21) MTBE	8.86	73	9848	0.42 ug/L	98
22) 1,1-Dichloroethane	9.06	63	14091	0.53 ug/L	95
23) Vinyl Acetate	9.21	43	8491	0.39 ug/L #	93
24) n-Hexane	9.55	86	1263	0.51 ug/L #	82
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.60	45	23379	0.48 ug/L #	84
27) cis-1,2-Dichloroethene	9.80	96	6342	0.46 ug/L	92
28) Bromochloromethane	10.00	128	2651	0.46 ug/L	95
29) Chloroform	10.05	83	12905	0.51 ug/L	97
30) 2,2-Dichloropropane	10.17	77	7644	0.58 ug/L #	35
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	12957	0.40 ug/L	98
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	7547	0.46 ug/L	96
35) 1,1,1-Trichloroethane	11.01	97	9419	0.47 ug/L	94
36) (TAME) tert-Amyl methyl et	11.71	73	7532	0.35 ug/L	92
38) 1,1-Dichloropropene	11.25	75	6890	0.40 ug/L	96
39) Carbon Tetrachloride	11.48	117	8199	0.46 ug/L	97
40) Benzene	11.54	78	21338	0.47 ug/L	97

(#) = qualifier out of range (m) = manual integration
03121218.D 022812.M Tue Mar 13 08:58:02 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

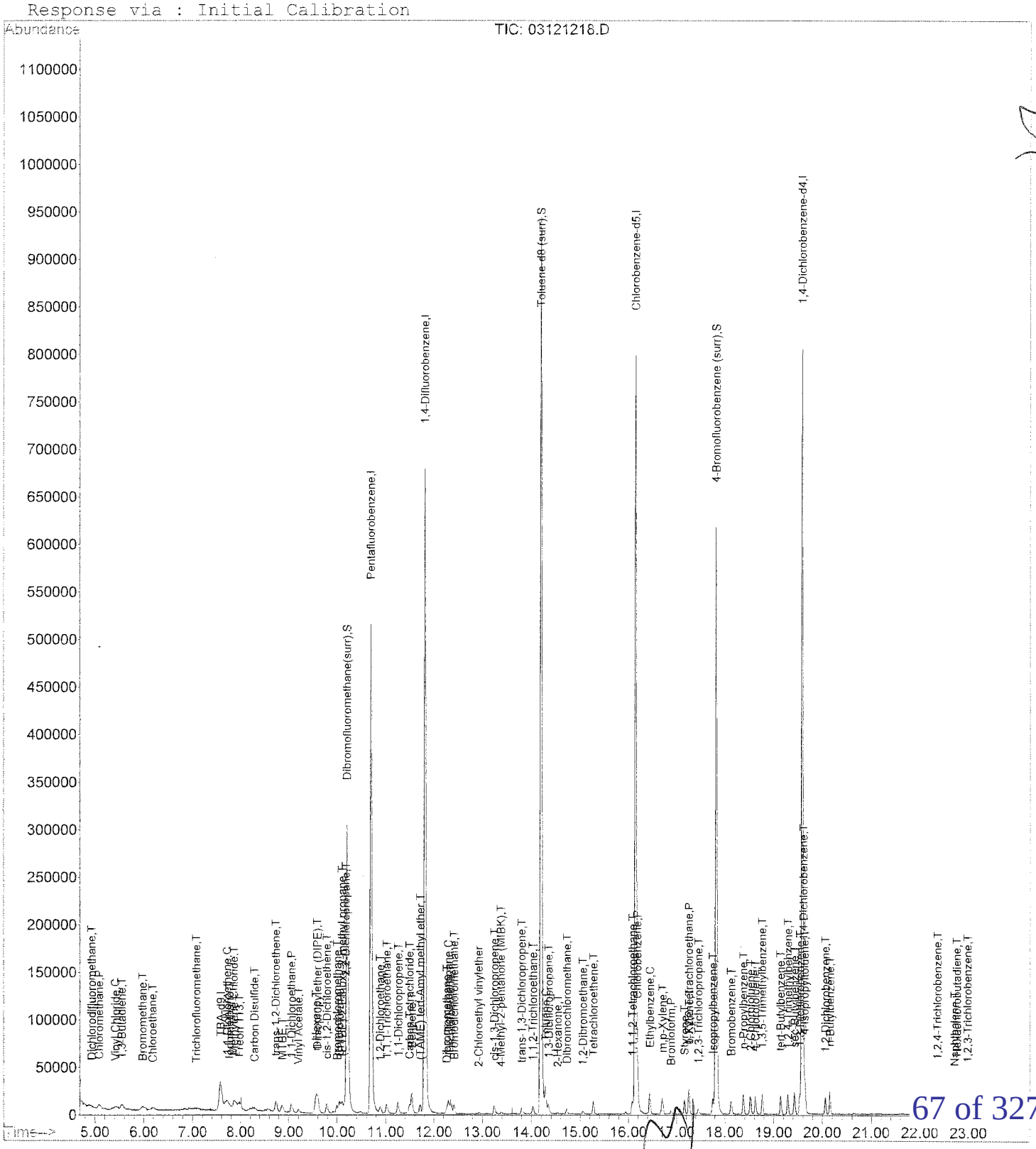
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	2884	0.43 ug/L		94
42)	1,2-Dichloropropane	12.31	63	5974	0.48 ug/L		98
43)	Trichloroethene	12.35	95	6441	0.48 ug/L		93
44)	Bromodichloromethane	12.42	83	7796	0.44 ug/L		96
45)	2-Chloroethyl vinylether	12.93	63	917	0.24 ug/L		99
46)	cis-1,3-Dichloropropene	13.24	75	6589	0.39 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	2204	0.30 ug/L		98
48)	trans-1,3-Dichloropropene	13.81	75	4365	0.31 ug/L	#	87
49)	1,1,2-Trichloroethane	14.04	97	3522	0.43 ug/L		95
51)	Toluene	14.29	92	12964	0.46 ug/L		96
53)	1,3-Dichloropropane	14.34	76	6024	0.45 ug/L		96
54)	2-Hexanone	14.53	43	1598	0.34 ug/L	#	83
55)	Dibromochloromethane	14.73	129	3896	0.40 ug/L		97
56)	1,2-Dibromoethane	15.06	107	3051	0.38 ug/L		99
57)	Tetrachloroethene	15.28	164	3976	0.42 ug/L		92
58)	1,1,1,2-Tetrachloroethane	16.08	131	4887	0.47 ug/L	#	63
59)	Chlorobenzene	16.19	112	15208	0.51 ug/L		96
60)	Ethylbenzene	16.45	91	20022	0.41 ug/L		97
61)	m,p-Xylene	16.71	106	6922	0.36 ug/L		98
62)	Styrene	17.16	104	9083	0.31 ug/L		96
63)	o-Xylene	17.26	106	7032	0.37 ug/L		92
66)	Bromoform	16.89	173	2078	0.40 ug/L		91
67)	1,1,2,2-Tetrachloroethane	17.25	83	3766	0.52 ug/L	#	85
68)	1,2,3-Trichloropropane	17.45	110	821	0.40 ug/L	#	85
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D.	d	
70)	Isopropylbenzene	17.76	105	13985	0.35 ug/L		97
71)	Bromobenzene	18.12	156	4575	0.43 ug/L		88
72)	n-Propylbenzene	18.37	91	20377	0.40 ug/L		99
73)	2-Chlorotoluene	18.52	91	16078	0.48 ug/L	#	87
74)	4-Chlorotoluene	18.62	91	14269	0.42 ug/L		98
75)	1,3,5-Trimethylbenzene	18.76	105	15780	0.42 ug/L		94
76)	tert-Butylbenzene	19.14	119	9693	0.34 ug/L		95
77)	1,2,4-Trimethylbenzene	19.30	105	14689	0.38 ug/L		100
78)	sec-Butylbenzene	19.43	105	19925	0.44 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	9324	0.46 ug/L		91
80)	1,4-Dichlorobenzene	19.62	146	9764	0.48 ug/L	#	77
81)	4-Isopropyltoluene	19.65	119	17175	0.46 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	7685	0.43 ug/L		98
83)	n-Butylbenzene	20.16	91	14817	0.42 ug/L		92
84)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D.	d	
85)	1,2,4-Trichlorobenzene	22.36	180	4456	0.33 ug/L	#	97
86)	Naphthalene	22.71	128	3760	0.22 ug/L		98
87)	Hexachlorobutadiene	22.77	225	3636	0.57 ug/L		97
88)	1,2,3-Trichlorobenzene	23.00	180	3074	0.29 ug/L		86

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 8:57 2012 Quant Results File: 022812.RES

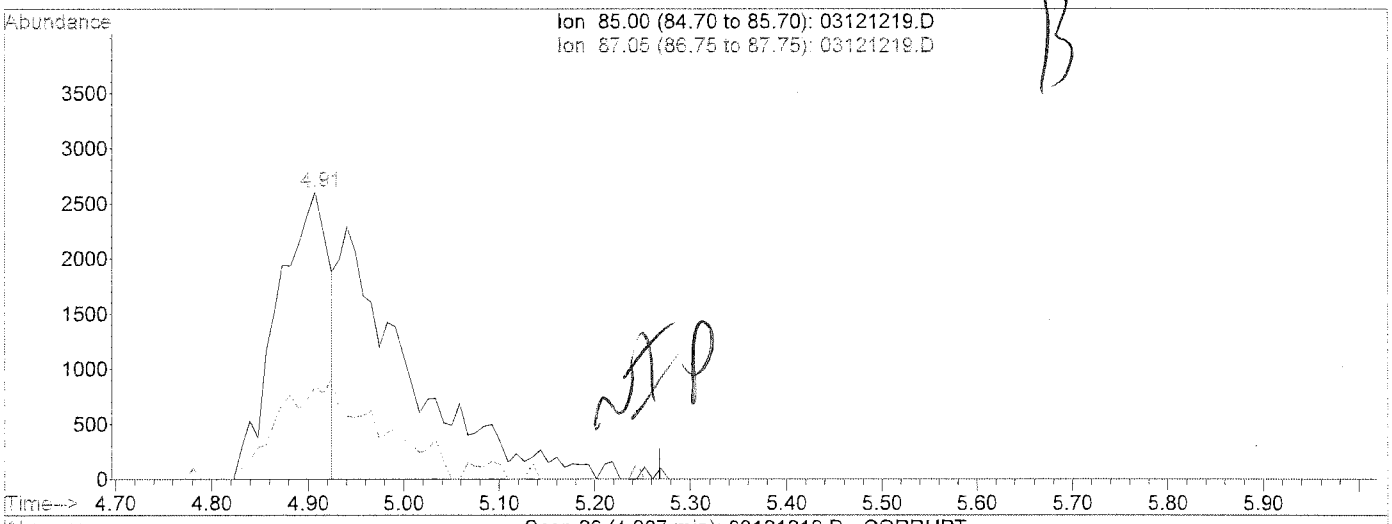
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

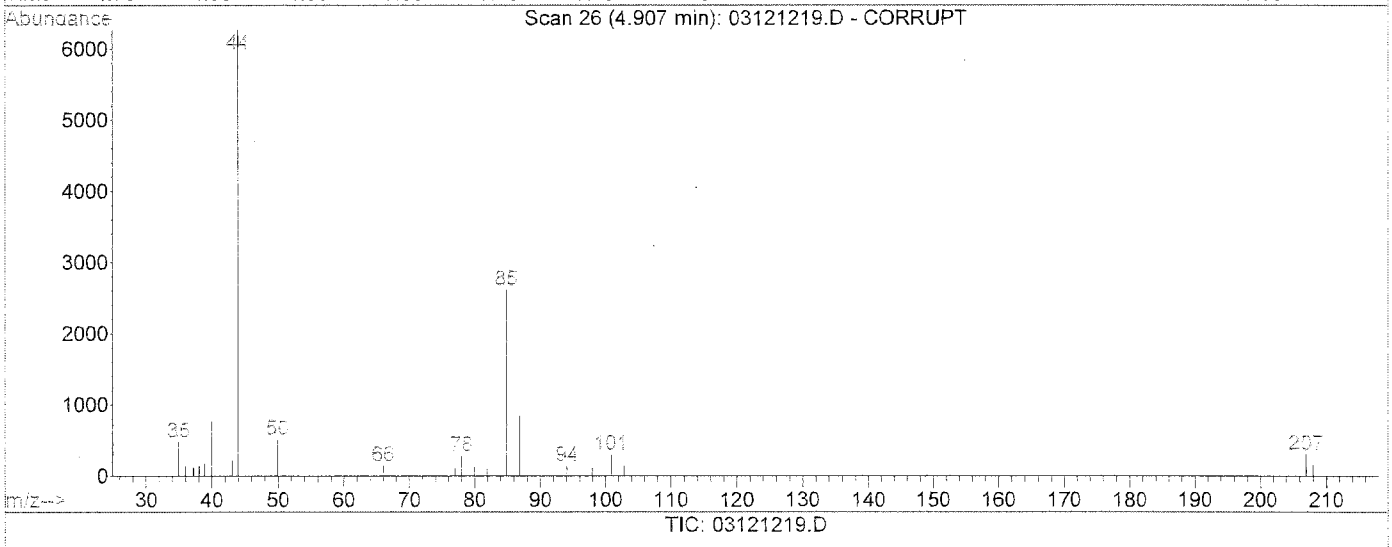


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 0.49ug/L

response 9600

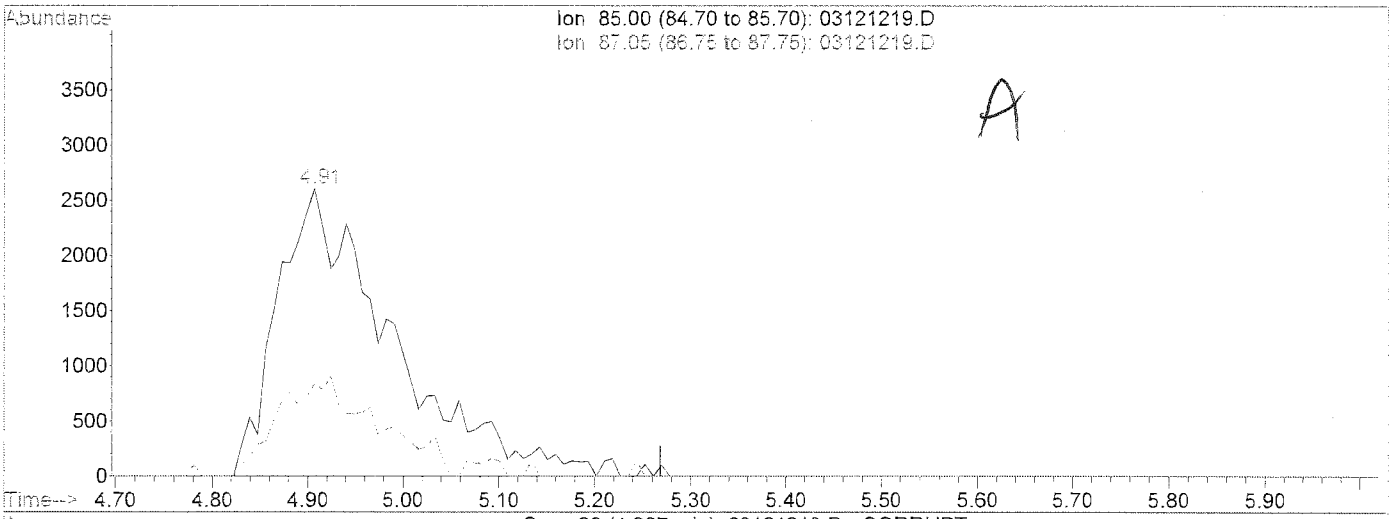
Ion	Exp%	Act%
85.00	100	100
87.05	32.10	26.61
0.00	0.00	0.00
0.00	0.00	0.00

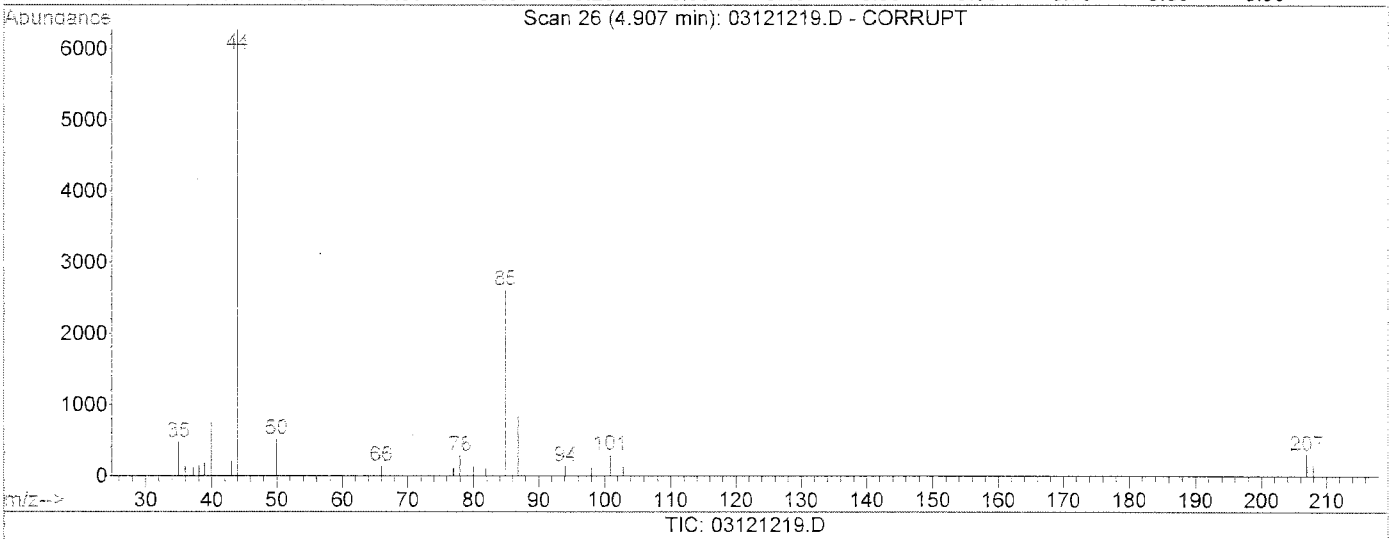
03121219.D 022812.M Tue Mar 13 09:10:51 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 1.09ug/L m

response 21413

Ion	Exp%	Act%
85.00	100	100
87.05	32.10	11.93#
0.00	0.00	0.00
0.00	0.00	0.00

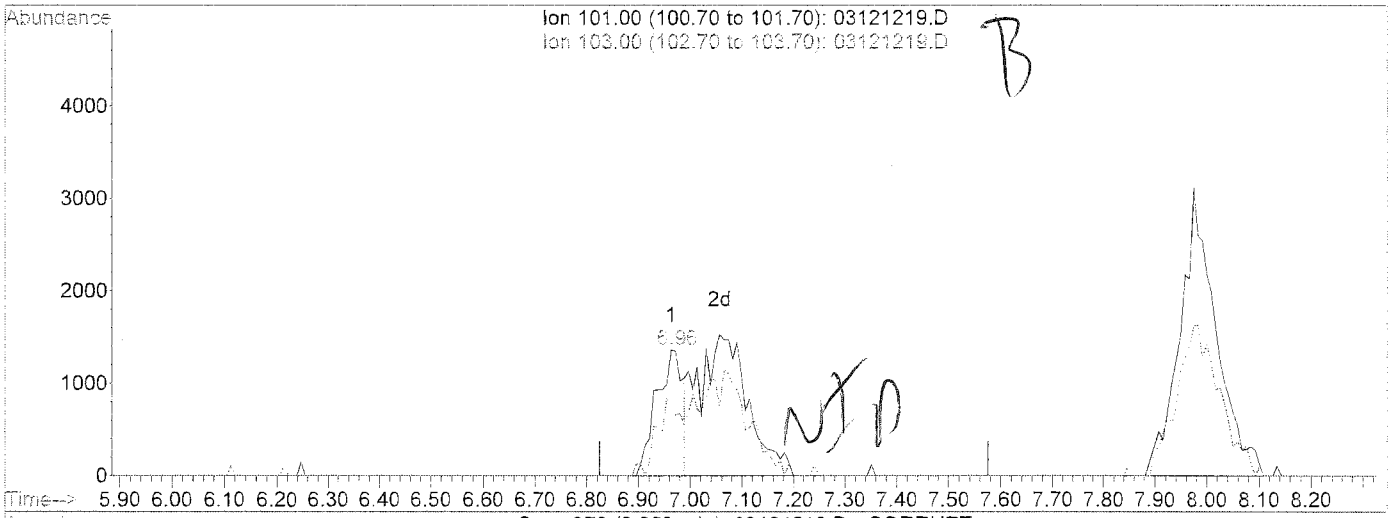
V3/14/12

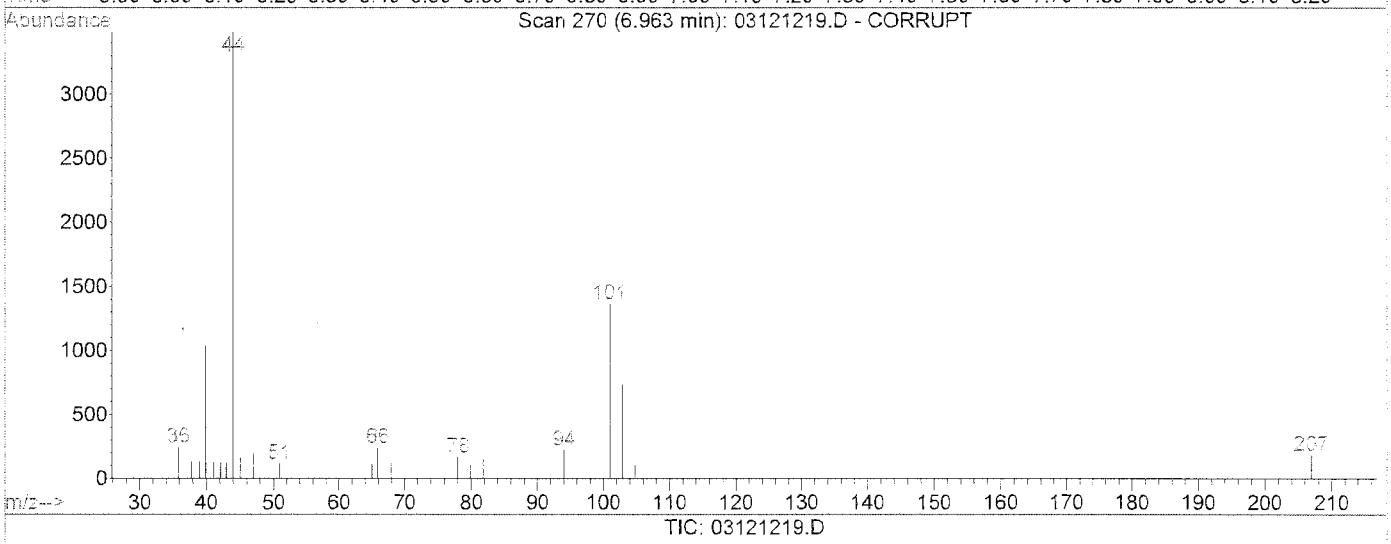
03121219.D 022812.M Tue Mar 13 09:11:19 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

6.96min 0.29ug/L

response 4757

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	53.34
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

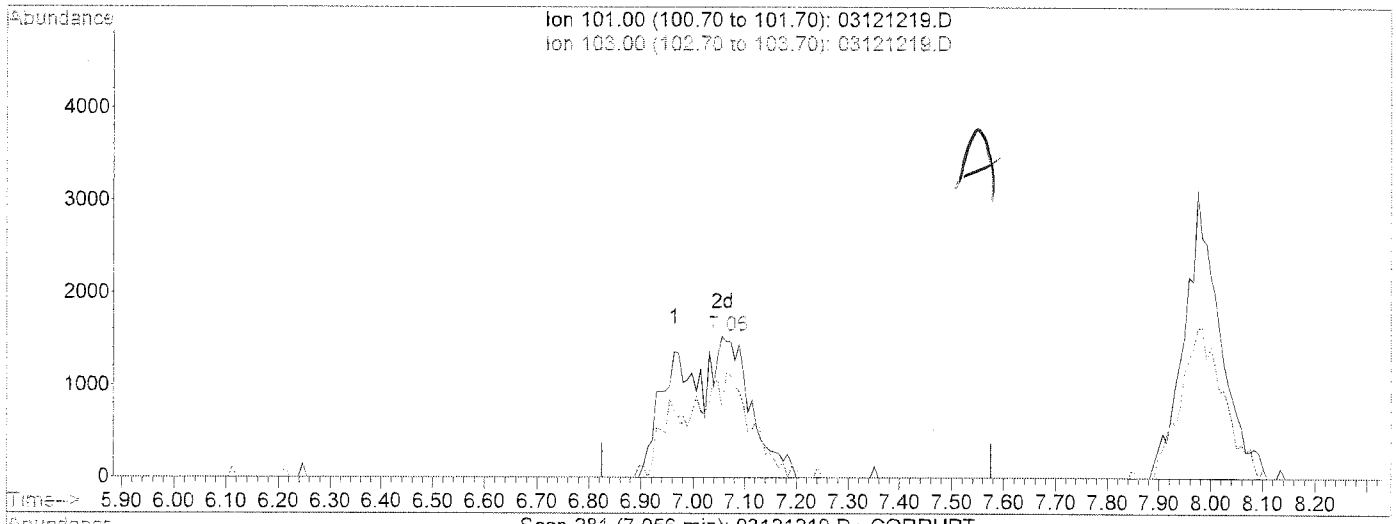
3/14/12

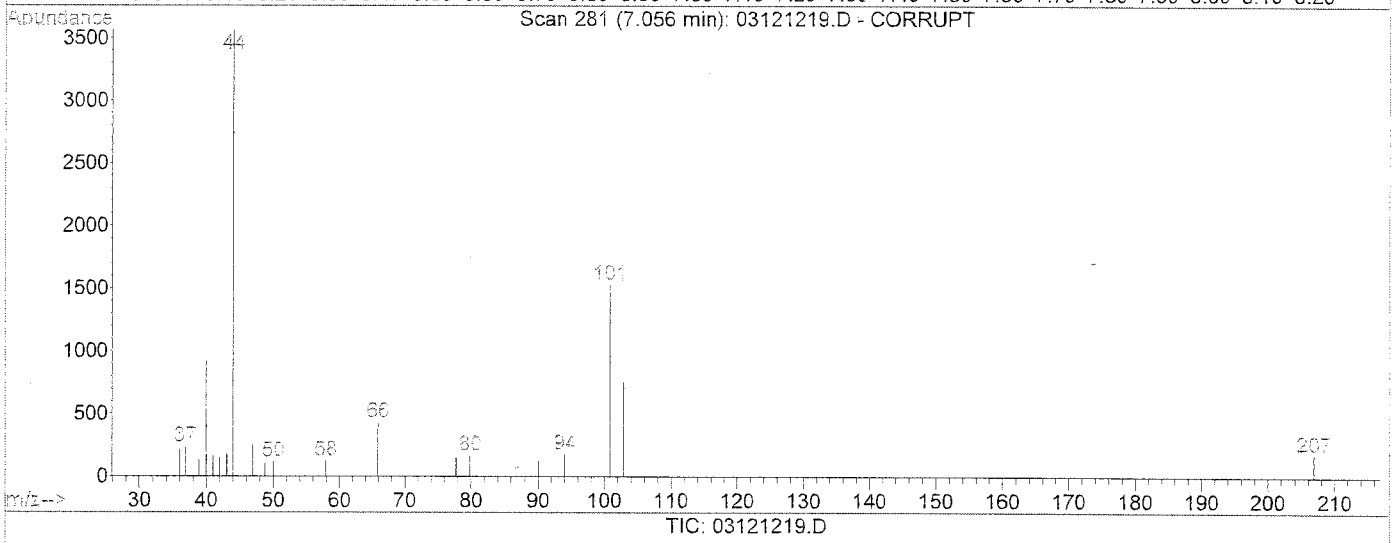
03121219.D 022812.M Tue Mar 13 09:11:28 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

3/14/12

7.06min 0.90ug/L m

response 14897

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	49.18#
0.00	0.00	0.00
0.00	0.00	0.00

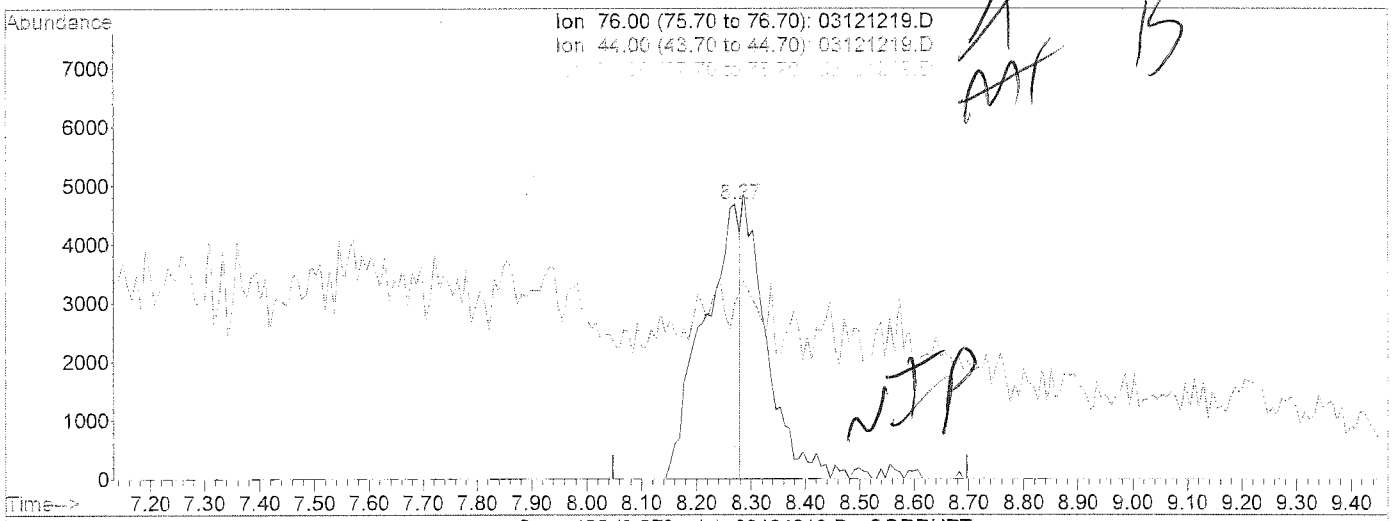
03121219.D 022812.M Tue Mar 13 09:11:35 2012

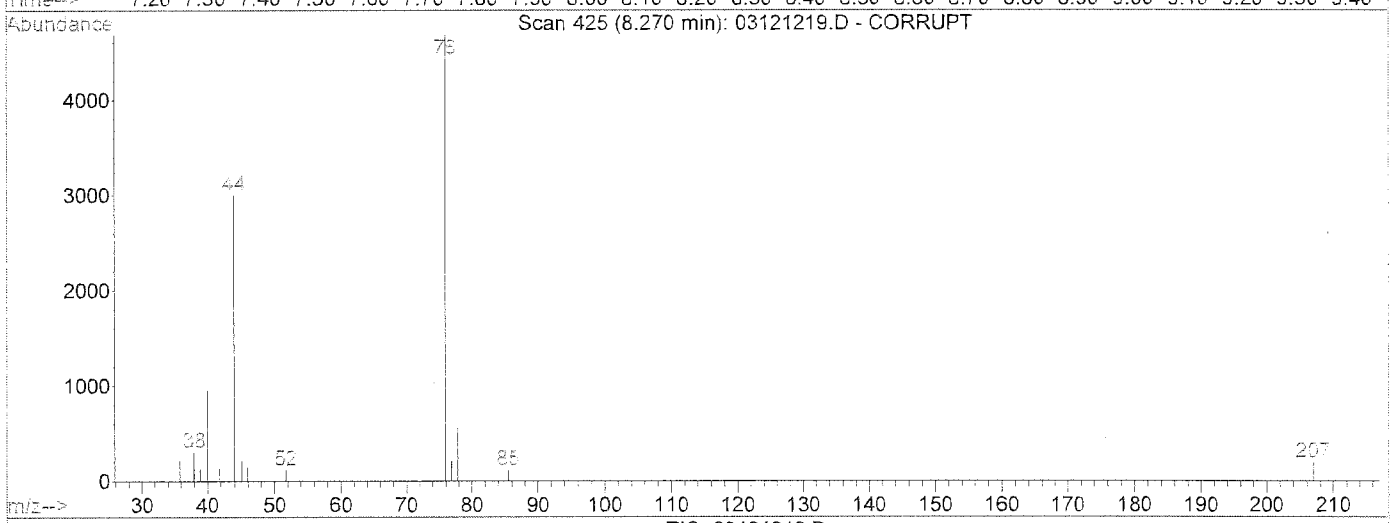
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

3/14/12
AAT B





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.27min 0.66ug/L

response 21340

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	20.11
78.00	4.20	4.33
0.00	0.00	0.00

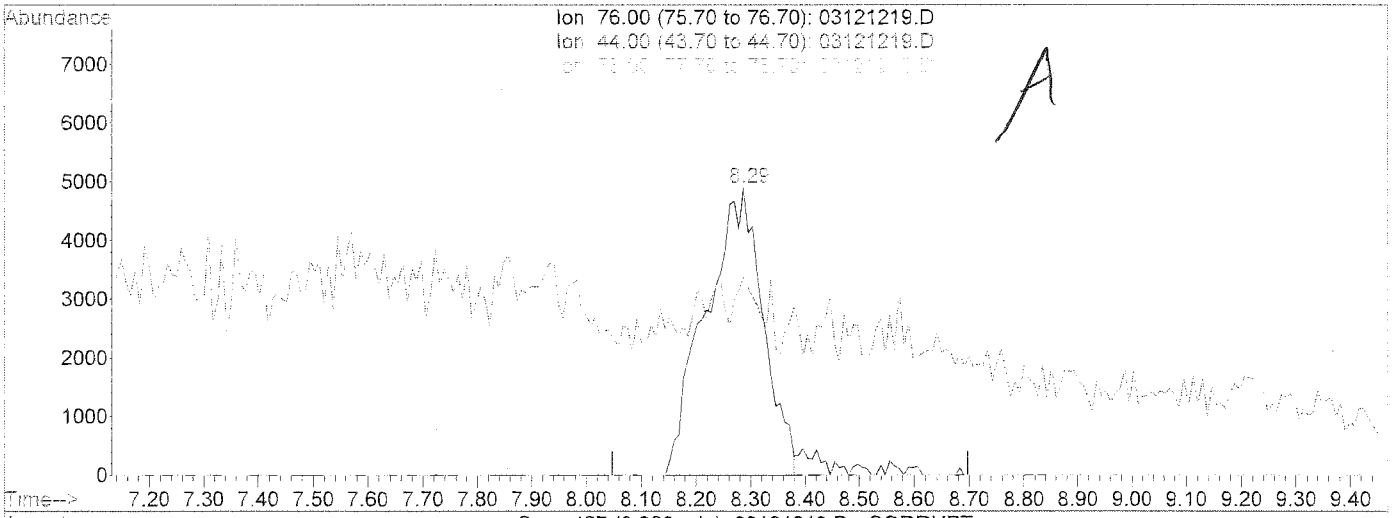
3/14/12

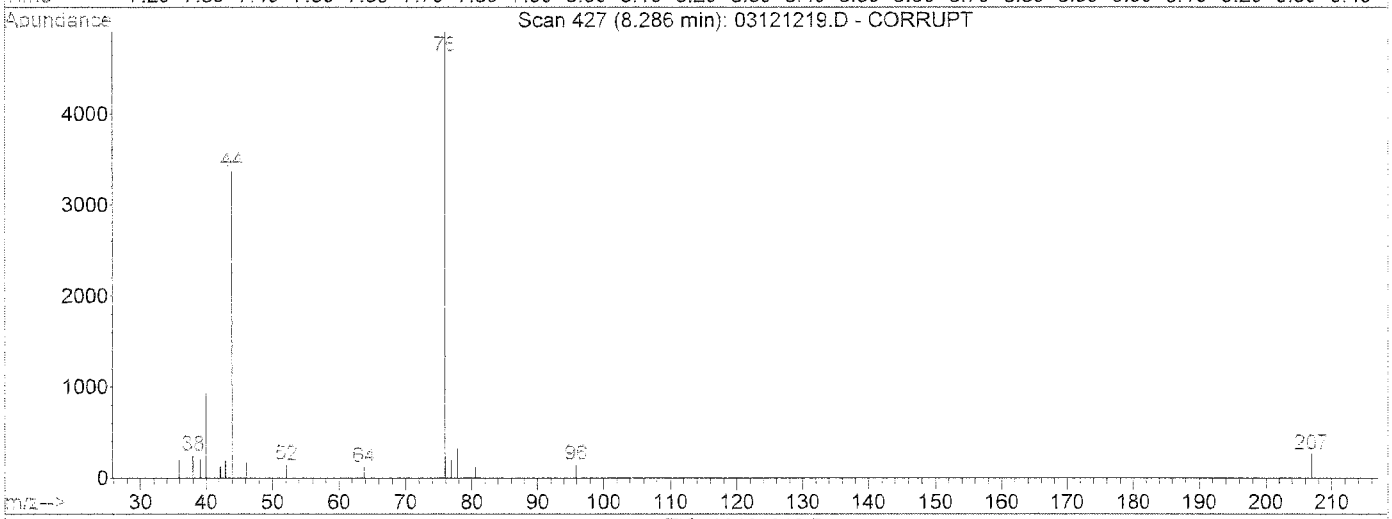
03121219.D 022812.M Tue Mar 13 09:11:43 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

3/14/12

8.29min 1.09ug/L m

response 35519

Ion	Exp%	Act%
76.00	100	100
44.00	18.70	12.08#
78.00	4.20	2.60#
0.00	0.00	0.00

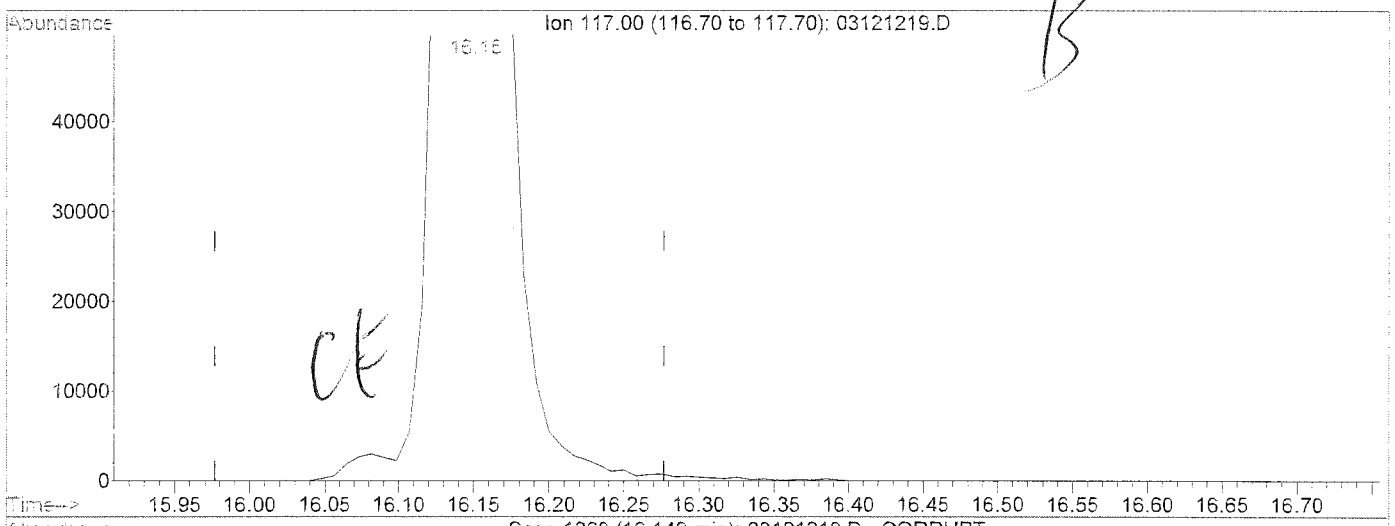
03121219.D 022812.M Tue Mar 13 09:11:52 2012

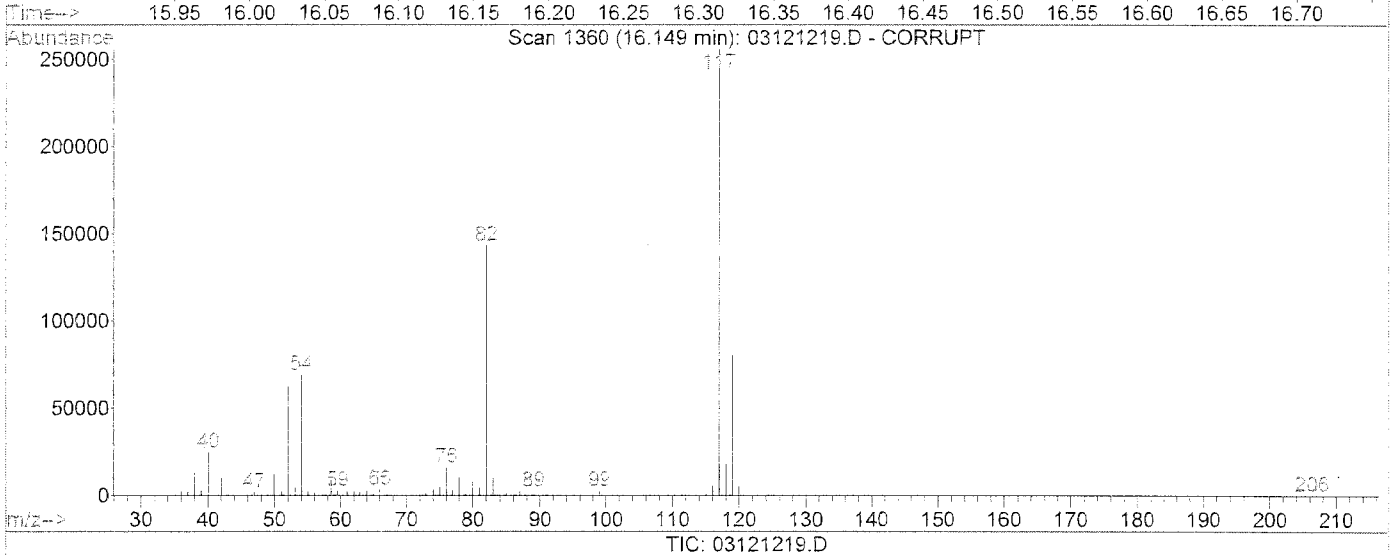
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





TIC: 03121219.D

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

response 589571

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

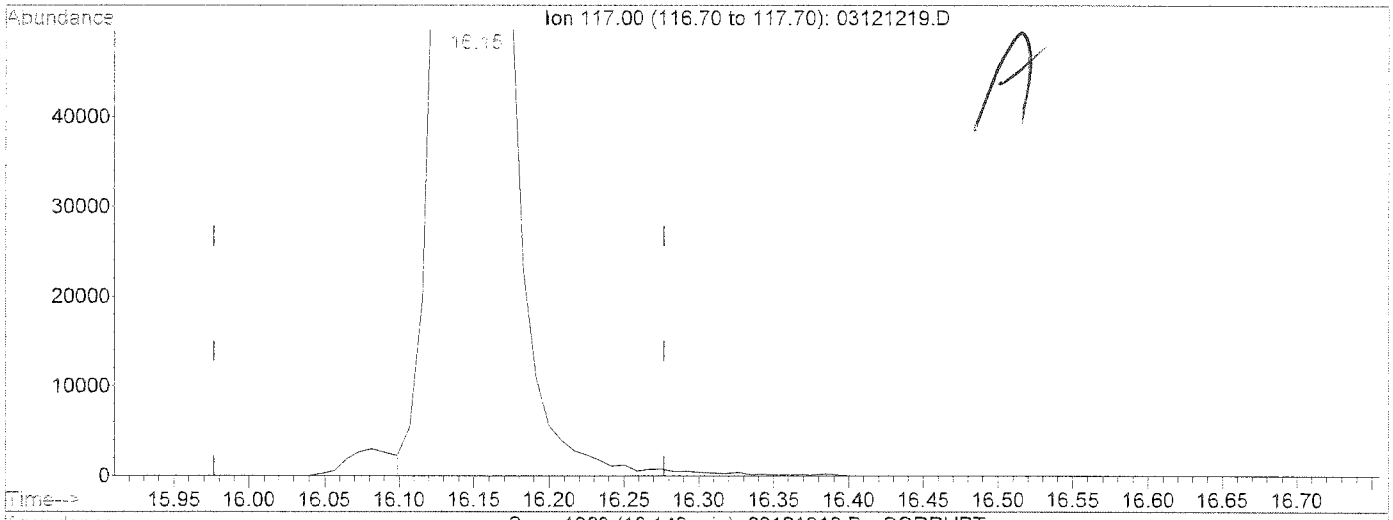
✓3/14/12

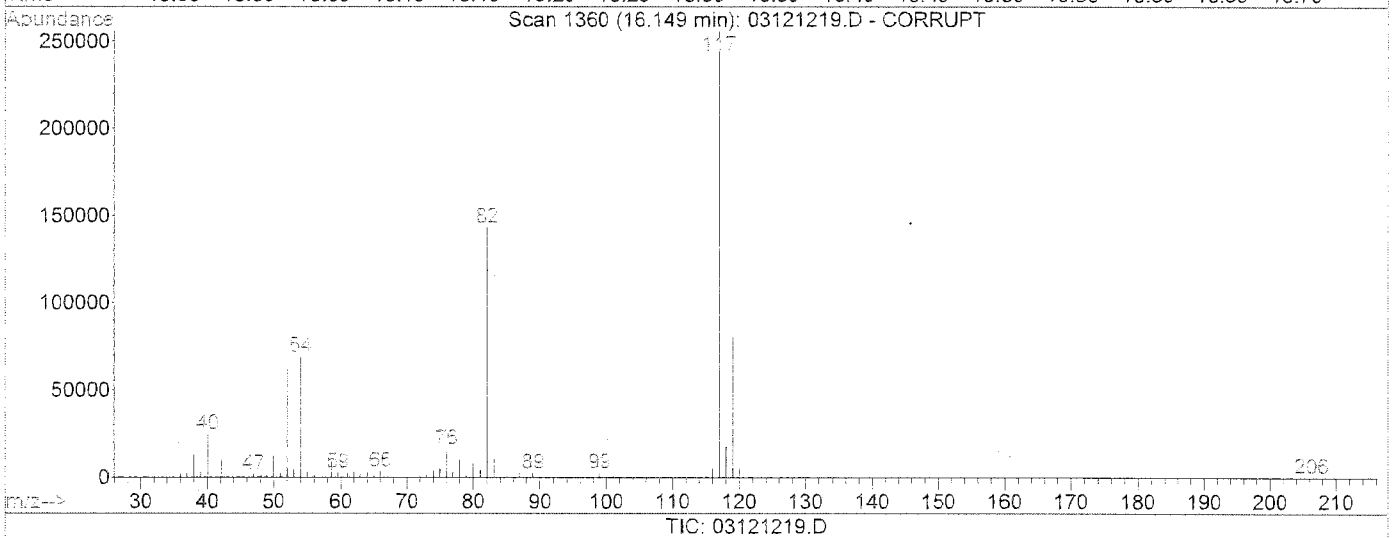
03121219.D 022812.M Tue Mar 13 09:12:15 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 582915

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

03121219.D 022812.M Tue Mar 13 09:12:20 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	72754	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	448673	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	716558	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	582915m	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	266849	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	279339	27.90 ug/L	0.01
Spiked Amount 25.000			Recovery	= 111.60%	
50) Toluene-d8 (surr)	14.19	98	794617	24.59 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.36%	
64) 4-Bromofluorobenzene (surr	17.83	95	293573	24.06 ug/L	0.02
Spiked Amount 25.000			Recovery	= 96.24%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.91	85	21413m	1.09 ug/L	
6) Chloromethane	5.09	50	25022	1.17 ug/L #	59
7) Vinyl Chloride	5.44	62	21516	1.26 ug/L	100
8) 1,3-Butadiene	5.56	54	11270	1.05 ug/L	85
9) Bromomethane	5.99	94	16187	1.24 ug/L	93
10) Chloroethane	6.18	64	11509	1.09 ug/L #	71
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	14897m	0.90 ug/L	
13) Acetone	7.11	43	7816	2.21 ug/L #	86
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	20847	1.07 ug/L #	92
16) 1,1-Dichloroethene	7.71	96	13239	1.08 ug/L	95
17) Methylene Chloride	7.87	84	17454	1.14 ug/L	93
18) Freon 113	7.97	101	15093	1.16 ug/L	98
19) Carbon Disulfide	8.29	76	35519m	1.09 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	15419	1.07 ug/L	95
21) MTBE	8.86	73	21804	0.93 ug/L	92
22) 1,1-Dichloroethane	9.05	63	28971	1.10 ug/L	98
23) Vinyl Acetate	9.21	43	16328	0.76 ug/L	97
24) n-Hexane	9.56	86	2096	0.85 ug/L #	39
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.59	45	50411	1.03 ug/L	88
27) cis-1,2-Dichloroethene	9.79	96	13599	0.98 ug/L	99
28) Bromochloromethane	10.01	128	5486	0.96 ug/L	94
29) Chloroform	10.06	83	24901	0.99 ug/L	98
30) 2,2-Dichloropropane	10.16	77	14801	1.13 ug/L #	83
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	26126	0.81 ug/L	95
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	16208	0.99 ug/L	97
35) 1,1,1-Trichloroethane	11.02	97	19885	1.00 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	17302	0.80 ug/L	89
38) 1,1-Dichloropropene	11.25	75	14809	0.84 ug/L	96
39) Carbon Tetrachloride	11.49	117	16377	0.91 ug/L	97
40) Benzene	11.55	78	43200	0.94 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121219.D 022812.M Tue Mar 13 09:12:45 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

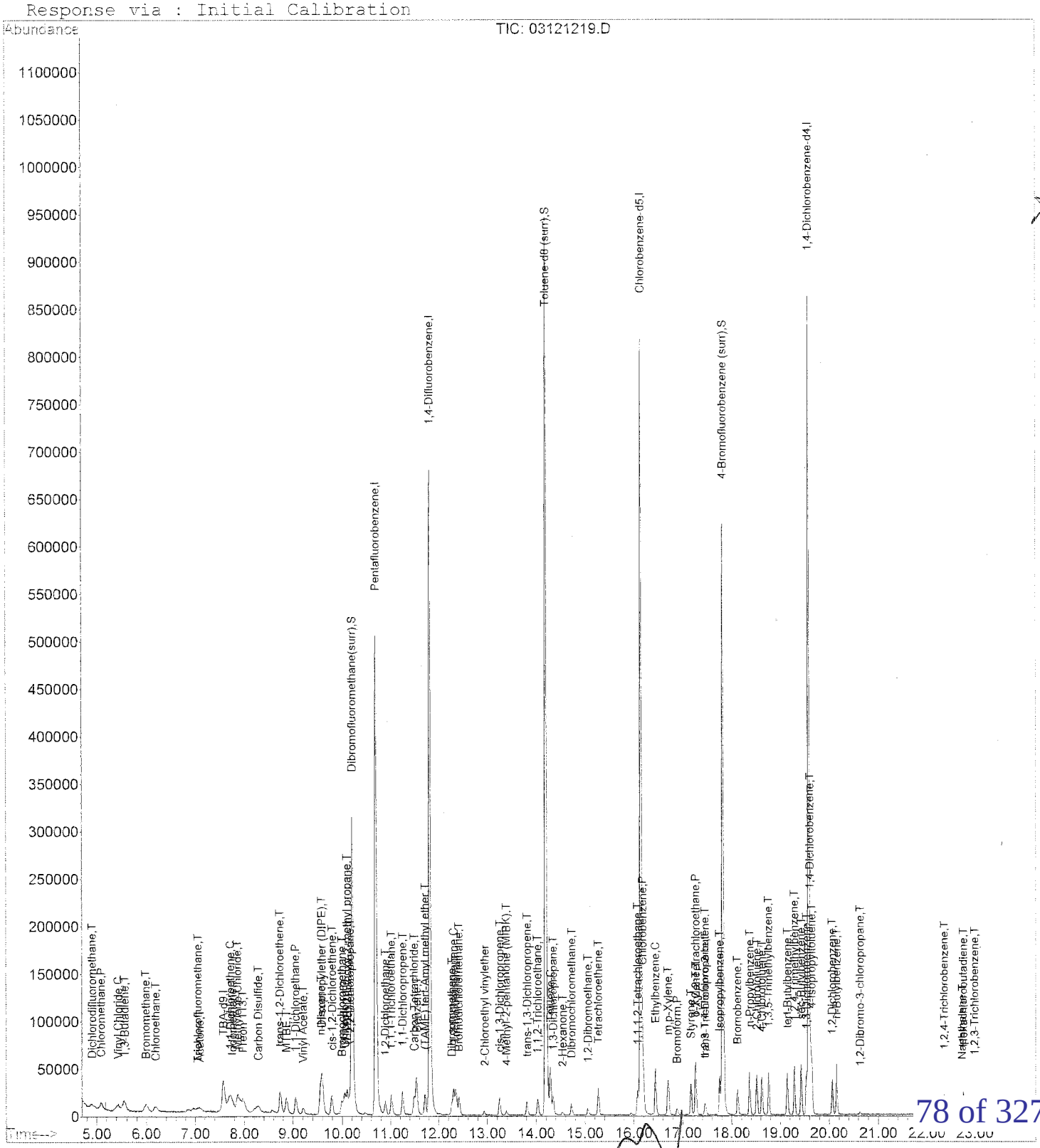
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	5874	0.87 ug/L		93
42)	1,2-Dichloropropane	12.31	63	11384	0.91 ug/L		94
43)	Trichloroethene	12.36	95	12243	0.89 ug/L		95
44)	Bromodichloromethane	12.42	83	16061	0.88 ug/L		95
45)	2-Chloroethyl vinylether	12.95	63	1878	0.47 ug/L		82
46)	cis-1,3-Dichloropropene	13.25	75	12069	0.70 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	5216	0.70 ug/L		96
48)	trans-1,3-Dichloropropene	13.81	75	9214	0.65 ug/L		92
49)	1,1,2-Trichloroethane	14.03	97	7074	0.86 ug/L		93
51)	Toluene	14.29	92	24904	0.87 ug/L		100
53)	1,3-Dichloropropane	14.35	76	11311	0.81 ug/L		98
54)	2-Hexanone	14.54	43	4222	0.86 ug/L	#	79
55)	Dibromochloromethane	14.73	129	8339	0.82 ug/L		96
56)	1,2-Dibromoethane	15.05	107	6938	0.84 ug/L		94
57)	Tetrachloroethene	15.28	164	8471	0.86 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.08	131	9237	0.85 ug/L		99
59)	Chlorobenzene	16.19	112	29393	0.95 ug/L	#	84
60)	Ethylbenzene	16.44	91	43261	0.85 ug/L		98
61)	m,p-Xylene	16.71	106	15936	0.79 ug/L		96
62)	Styrene	17.16	104	20132	0.66 ug/L		98
63)	o-Xylene	17.26	106	16883	0.86 ug/L		97
66)	Bromoform	16.88	173	4078	0.75 ug/L		95
67)	1,1,2,2-Tetrachloroethane	17.25	83	7870	1.05 ug/L	#	90
68)	1,2,3-Trichloropropane	17.45	110	1904	0.89 ug/L		90
69)	trans-1,4-Dichloro-2-buten	17.46	53	1973	0.79 ug/L		82
70)	Isopropylbenzene	17.76	105	33180	0.80 ug/L		99
71)	Bromobenzene	18.13	156	9105	0.83 ug/L		90
72)	n-Propylbenzene	18.37	91	45516	0.86 ug/L		100
73)	2-Chlorotoluene	18.52	91	29840	0.86 ug/L		98
74)	4-Chlorotoluene	18.62	91	30724	0.87 ug/L		100
75)	1,3,5-Trimethylbenzene	18.76	105	31941	0.83 ug/L		98
76)	tert-Butylbenzene	19.15	119	24066	0.82 ug/L		96
77)	1,2,4-Trimethylbenzene	19.29	105	32905	0.83 ug/L		99
78)	sec-Butylbenzene	19.43	105	41964	0.89 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	20175	0.97 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	20497	0.98 ug/L	#	87
81)	4-Isopropyltoluene	19.66	119	35059	0.91 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	15849	0.87 ug/L		97
83)	n-Butylbenzene	20.15	91	31338	0.85 ug/L		98
84)	1,2-Dibromo-3-chloropropan	20.63	75	951	0.79 ug/L		91
85)	1,2,4-Trichlorobenzene	22.37	180	8942	0.64 ug/L		98
86)	Naphthalene	22.72	128	9240	0.51 ug/L		99
87)	Hexachlorobutadiene	22.76	225	6178	0.94 ug/L		96
88)	1,2,3-Trichlorobenzene	22.99	180	6725	0.60 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: 022812.RES

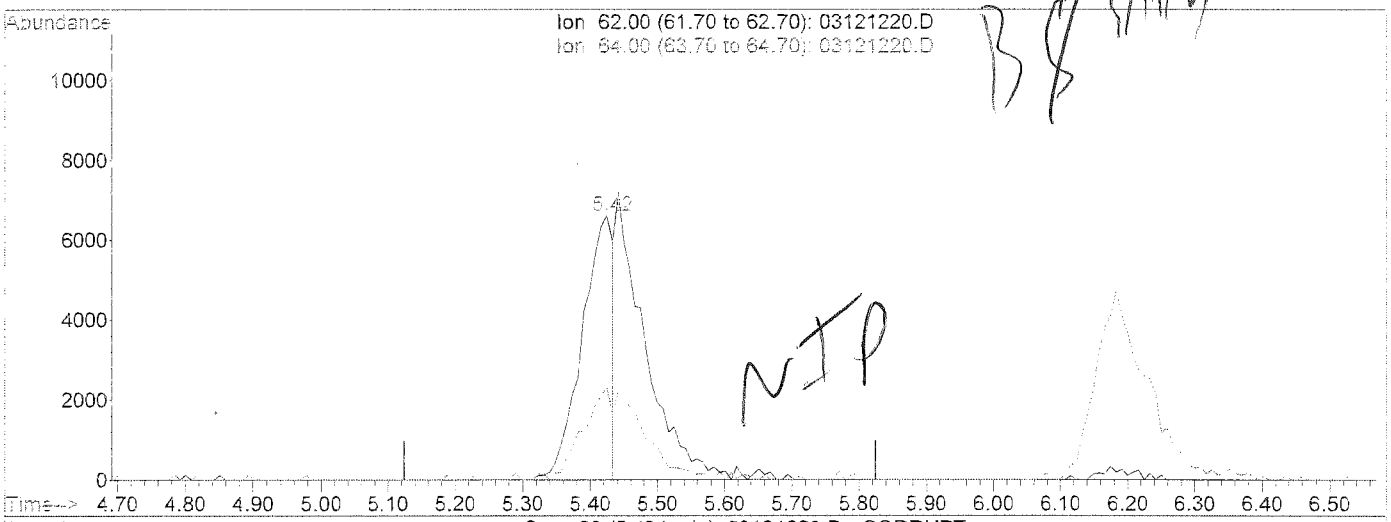
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration



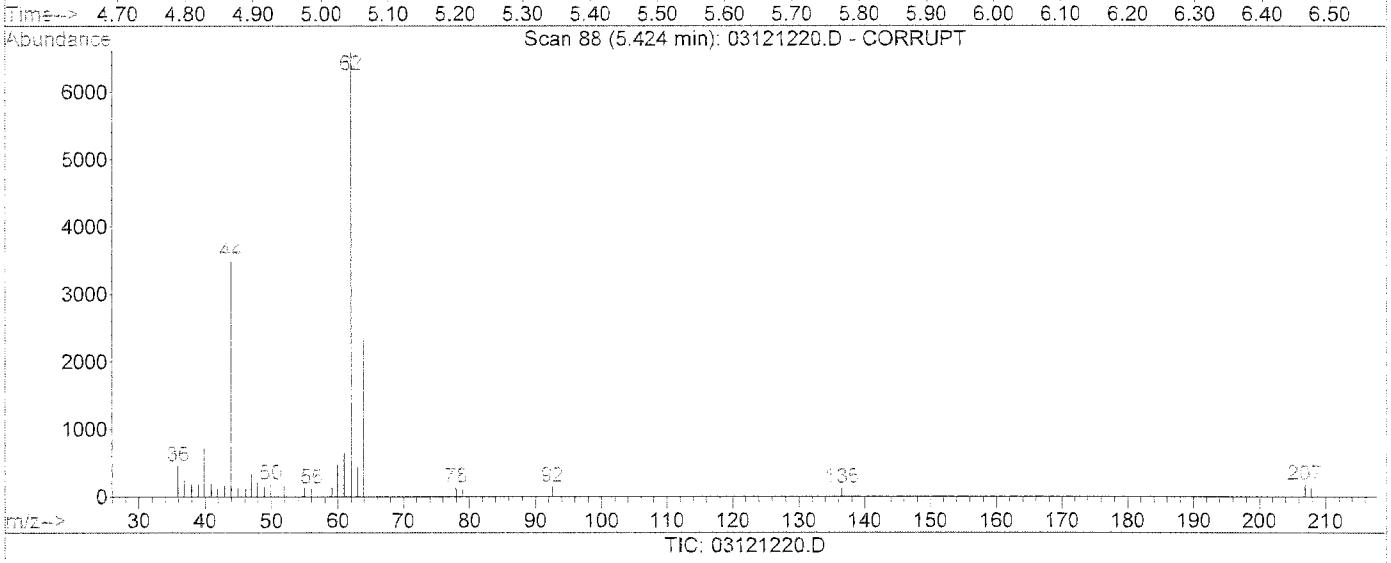
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration



NTP



TIC: 03121220.D

(7) Vinyl Chloride (C)

5.42min 1.19ug/L

response 20878

Ion	Exp%	Act%
62.00	100	100
64.00	31.90	32.60
0.00	0.00	0.00
0.00	0.00	0.00

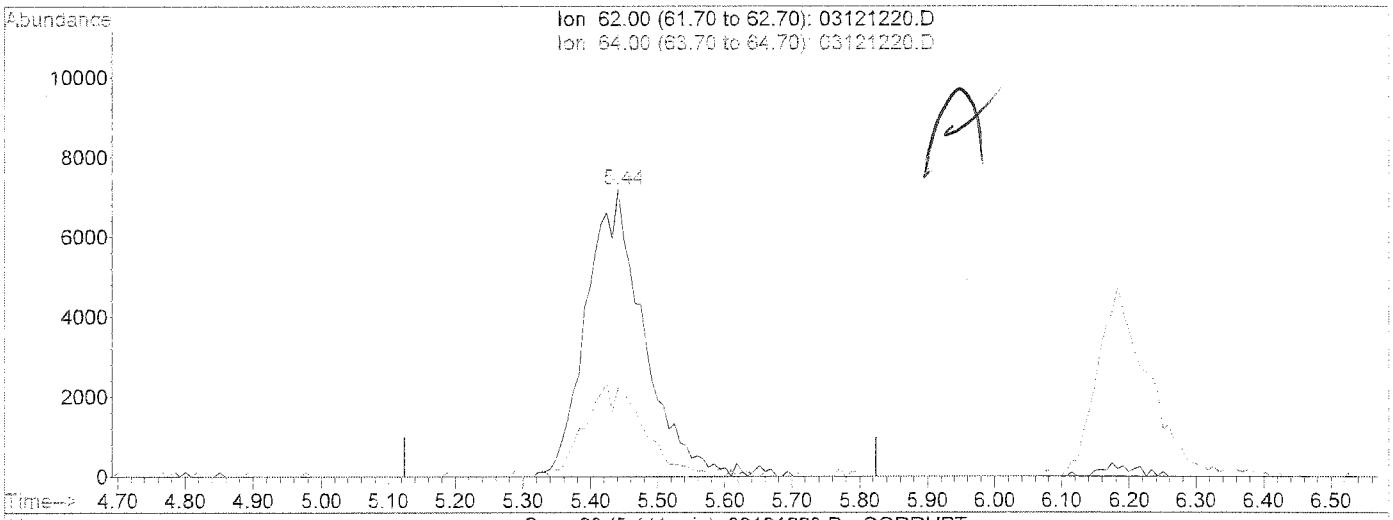
✓ 3/14/12

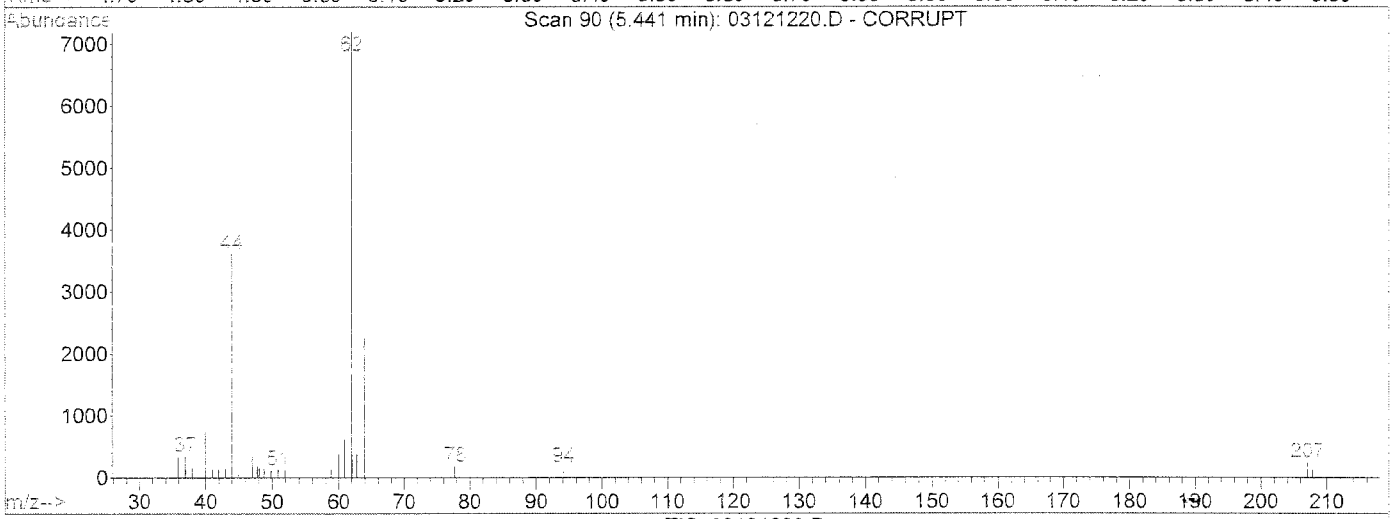
03121220.D 022812.M Tue Mar 13 09:13:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(7) Vinyl Chloride (C)

5.44min 2.42ug/L m

response 42603

Ion	Exp%	Act%
62.00	100	100
64.00	31.90	15.98#
0.00	0.00	0.00
0.00	0.00	0.00

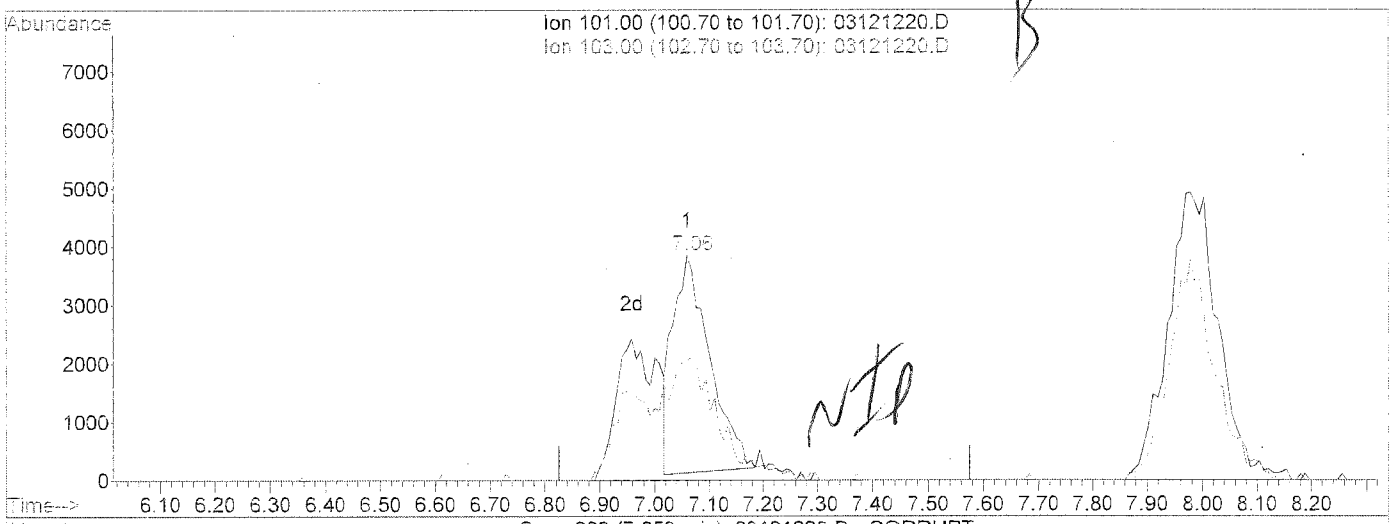
✓3/14/12

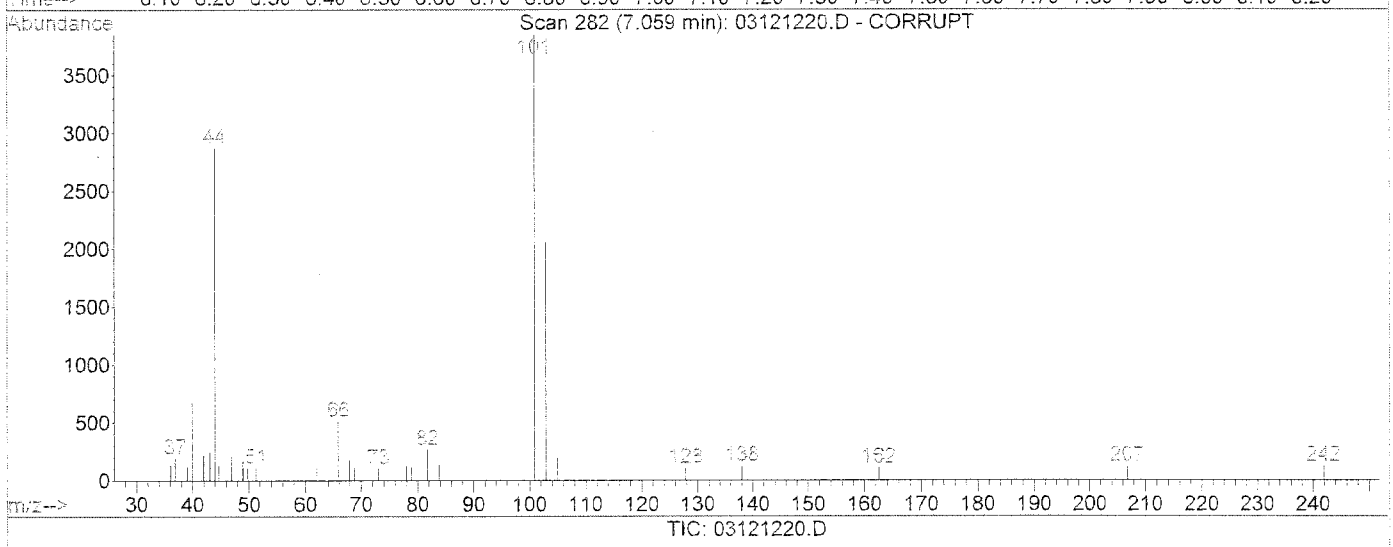
03121220.D 022812.M Tue Mar 13 09:13:09 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

7.06min 1.03ug/L

response 17554

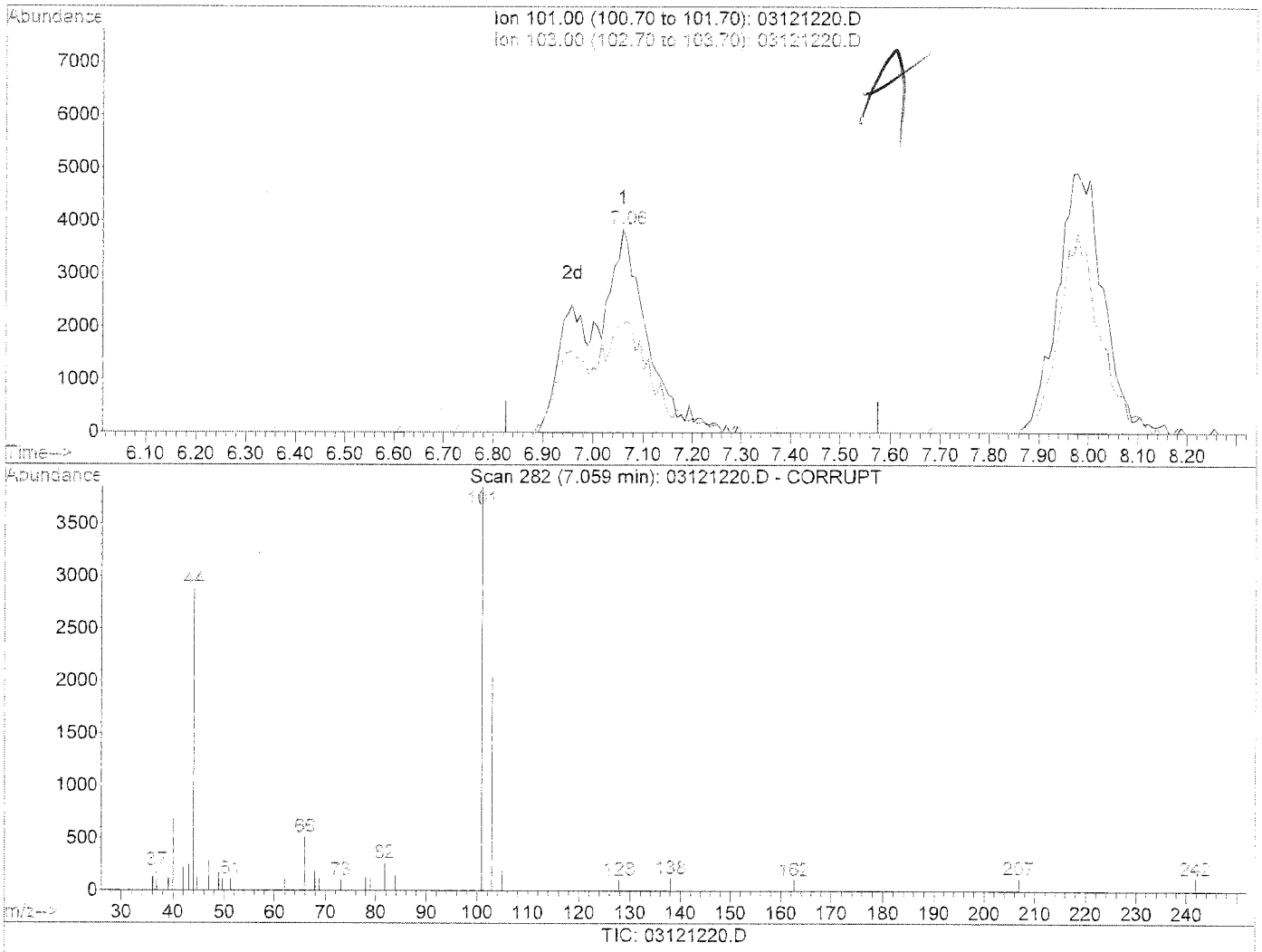
Ion	Exp%	Act%
101.00	100	100
103.00	61.60	50.00
0.00	0.00	0.00
0.00	0.00	0.00

03121220.D 022812.M Tue Mar 13 09:13:17 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration



V3/14/12

(12) Trichlorofluoromethane (T)

7.06min 1.90ug/L m

response 32387

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	53.40
0.00	0.00	0.00
0.00	0.00	0.00

03121220.D 022812.M Tue Mar 13 09:13:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	73284	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463215	25.00 ug/L	0.02
37) 1,4-Difluorobenzene	11.82	114	748251	25.00 ug/L	0.02
52) Chlorobenzene-d5	16.14	117	591256	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	280472	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	285480	27.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 110.48%	
50) Toluene-d8 (surr)	14.20	98	825419	24.46 ug/L	0.02
Spiked Amount 25.000			Recovery	= 97.84%	
64) 4-Bromofluorobenzene (surr	17.82	95	306720	24.78 ug/L	0.02
Spiked Amount 25.000			Recovery	= 99.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.68	59	6904	9.57 ug/L #	93
5) Dichlorodifluoromethane	4.89	85	44634	2.20 ug/L	95
6) Chloromethane	5.10	50	49042	2.22 ug/L	96
7) Vinyl Chloride	5.44	62	42603m	2.42 ug/L	
8) 1,3-Butadiene	5.53	54	25257	2.27 ug/L	98
9) Bromomethane	5.97	94	30776	2.29 ug/L	96
10) Chloroethane	6.18	64	24677	2.26 ug/L	96
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	32387m	1.90 ug/L	
13) Acetone	7.10	43	10992	3.02 ug/L	92
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	42797	2.13 ug/L #	92
16) 1,1-Dichloroethene	7.70	96	26400	2.08 ug/L	97
17) Methylene Chloride	7.87	84	34592	2.18 ug/L	94
18) Freon 113	7.98	101	31500	2.34 ug/L #	84
19) Carbon Disulfide	8.27	76	74087	2.21 ug/L #	65
20) trans-1,2-Dichloroethene	8.74	96	29846	2.01 ug/L	97
21) MTBE	8.86	73	43611	1.80 ug/L	96
22) 1,1-Dichloroethane	9.06	63	58392	2.15 ug/L	99
23) Vinyl Acetate	9.21	43	35371	1.59 ug/L	98
24) n-Hexane	9.56	86	5443	2.15 ug/L	94
25) 2-Butanone (MEK)	9.60	72	1928	2.57 ug/L #	89
26) Diisopropylether (DIPE)	9.60	45	107601	2.13 ug/L	93
27) cis-1,2-Dichloroethene	9.79	96	27566	1.92 ug/L	96
28) Bromochloromethane	9.99	128	11223	1.91 ug/L	90
29) Chloroform	10.05	83	51115	1.98 ug/L	98
30) 2,2-Dichloropropane	10.16	77	31201	2.30 ug/L	87
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	61470	1.86 ug/L	99
33) Tetrahydrofuran	10.47	72	1201	1.84 ug/L #	92
34) 1,2-Dichloroethane	10.89	62	32111	1.91 ug/L	96
35) 1,1,1-Trichloroethane	11.02	97	39359	1.92 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	38967	1.75 ug/L	94
38) 1,1-Dichloropropene	11.25	75	32257	1.76 ug/L	99
39) Carbon Tetrachloride	11.49	117	35654	1.90 ug/L	98
40) Benzene	11.54	78	90359	1.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121220.D 022812.M Tue Mar 13 09:13:55 2012

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

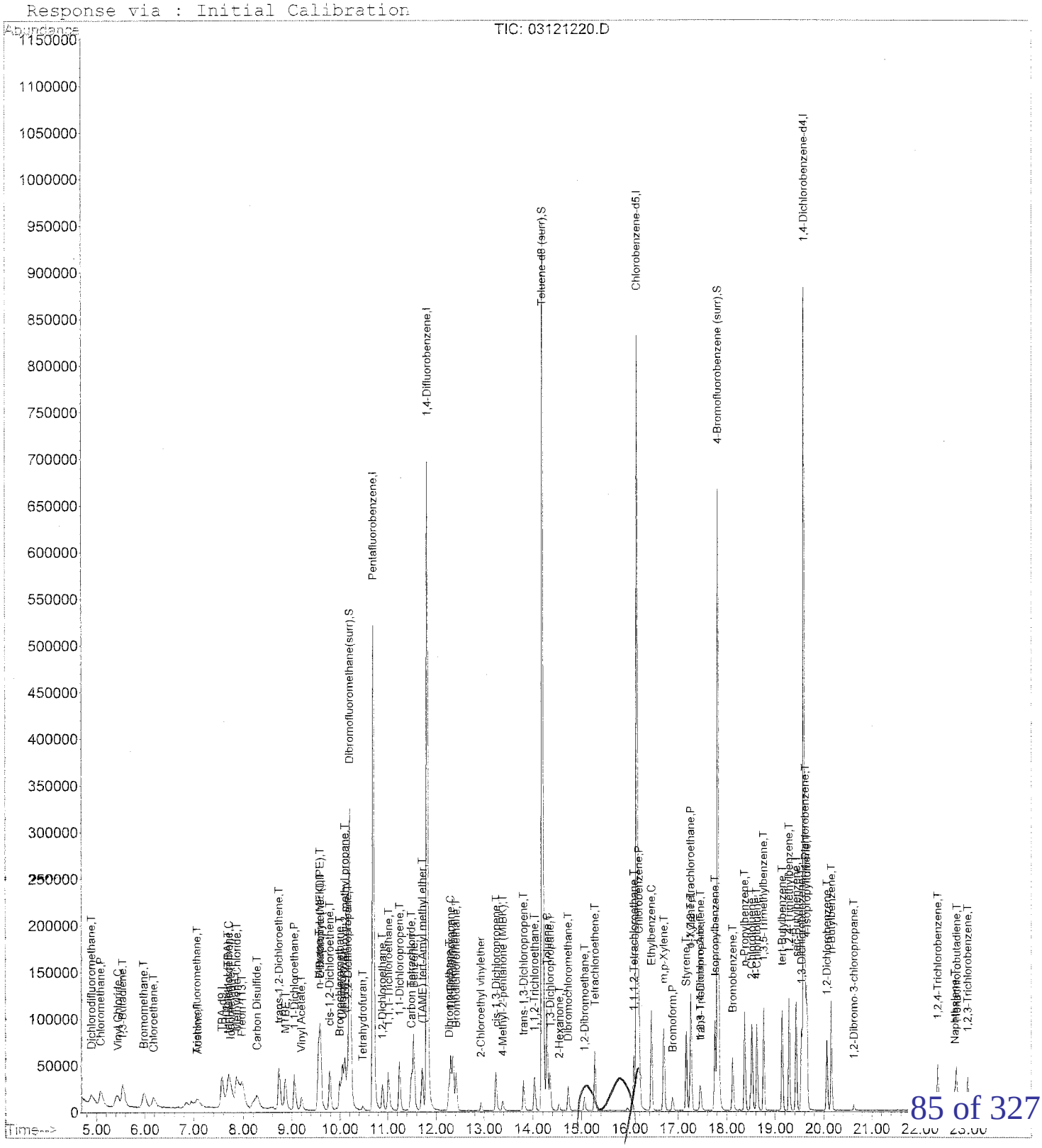
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	12797	1.81 ug/L		94
42)	1,2-Dichloropropane	12.31	63	25473	1.95 ug/L		96
43)	Trichloroethene	12.36	95	26577	1.86 ug/L		96
44)	Bromodichloromethane	12.43	83	33330	1.75 ug/L	#	97
45)	2-Chloroethyl vinylether	12.93	63	4247	1.03 ug/L		92
46)	cis-1,3-Dichloropropene	13.25	75	28087	1.55 ug/L		97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	11797	1.52 ug/L		94
48)	trans-1,3-Dichloropropene	13.81	75	22365	1.50 ug/L		96
49)	1,1,2-Trichloroethane	14.03	97	15824	1.84 ug/L		94
51)	Toluene	14.29	92	52633	1.77 ug/L		96
53)	1,3-Dichloropropane	14.35	76	26016	1.84 ug/L		96
54)	2-Hexanone	14.53	43	8624	1.72 ug/L	#	86
55)	Dibromochloromethane	14.73	129	18478	1.79 ug/L		94
56)	1,2-Dibromoethane	15.07	107	13631	1.63 ug/L		97
57)	Tetrachloroethene	15.28	164	18208	1.82 ug/L		99
58)	1,1,1,2-Tetrachloroethane	16.09	131	18704	1.70 ug/L		98
59)	Chlorobenzene	16.19	112	60684	1.94 ug/L		91
60)	Ethylbenzene	16.45	91	92262	1.79 ug/L		100
61)	m,p-Xylene	16.71	106	36201	1.78 ug/L		98
62)	Styrene	17.16	104	50675	1.64 ug/L		99
63)	o-Xylene	17.26	106	37361	1.87 ug/L		98
66)	Bromoform	16.89	173	8990	1.58 ug/L		96
67)	1,1,2,2-Tetrachloroethane	17.26	83	15876	2.02 ug/L		96
68)	1,2,3-Trichloropropane	17.46	110	4139	1.85 ug/L		94
69)	trans-1,4-Dichloro-2-buten	17.47	53	4535	1.73 ug/L		88
70)	Isopropylbenzene	17.76	105	80097	1.83 ug/L		98
71)	Bromobenzene	18.12	156	19895	1.72 ug/L		96
72)	n-Propylbenzene	18.37	91	103781	1.85 ug/L		99
73)	2-Chlorotoluene	18.51	91	69000	1.90 ug/L		100
74)	4-Chlorotoluene	18.62	91	70875	1.92 ug/L		98
75)	1,3,5-Trimethylbenzene	18.77	105	75709	1.87 ug/L		98
76)	tert-Butylbenzene	19.14	119	56518	1.83 ug/L		99
77)	1,2,4-Trimethylbenzene	19.29	105	76586	1.83 ug/L		97
78)	sec-Butylbenzene	19.43	105	95626	1.93 ug/L		98
79)	1,3-Dichlorobenzene	19.54	146	43036	1.97 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	43207	1.97 ug/L		96
81)	4-Isopropyltoluene	19.66	119	78136	1.93 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	34046	1.77 ug/L		98
83)	n-Butylbenzene	20.16	91	74103	1.92 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.63	75	1790	1.42 ug/L	#	87
85)	1,2,4-Trichlorobenzene	22.36	180	20855	1.41 ug/L		96
86)	Naphthalene	22.72	128	22332	1.18 ug/L		98
87)	Hexachlorobutadiene	22.76	225	12273	1.78 ug/L		96
88)	1,2,3-Trichlorobenzene	22.99	180	15807	1.35 ug/L	#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:13 2012 Quant Results File: 022812.RES

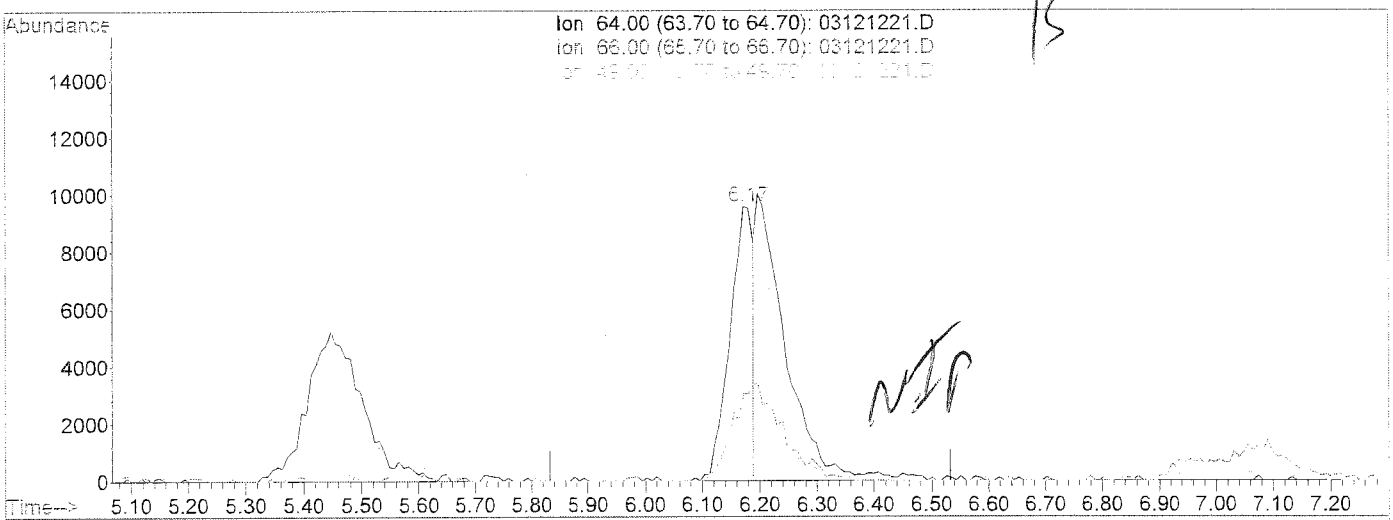
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

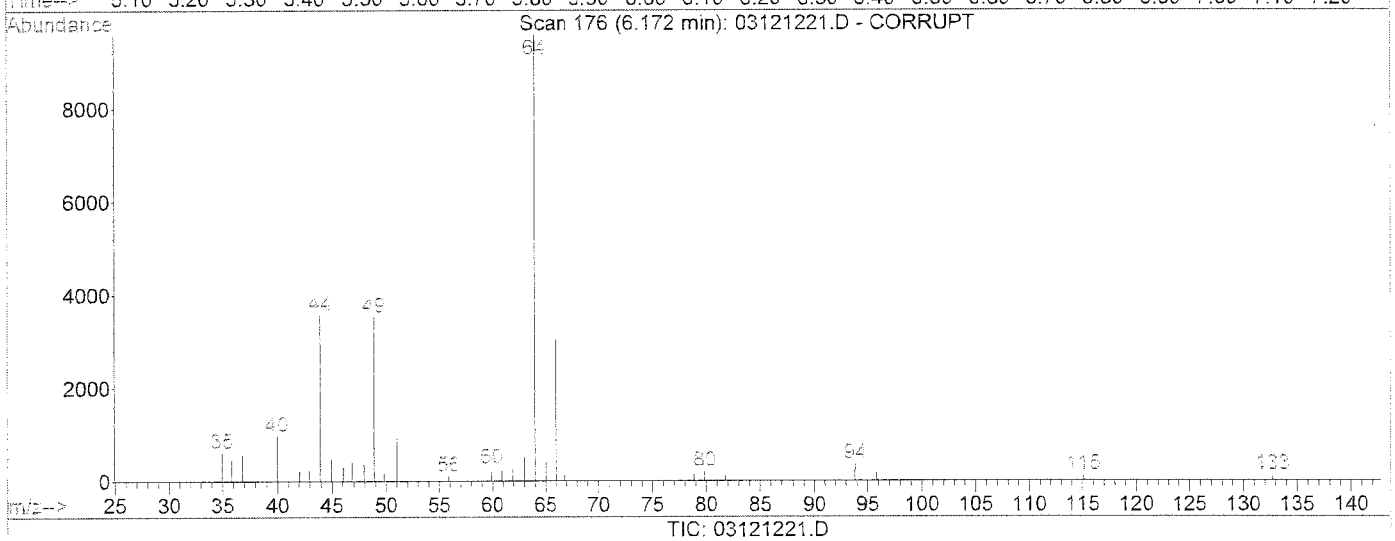


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.17min 2.48ug/L

response 27088

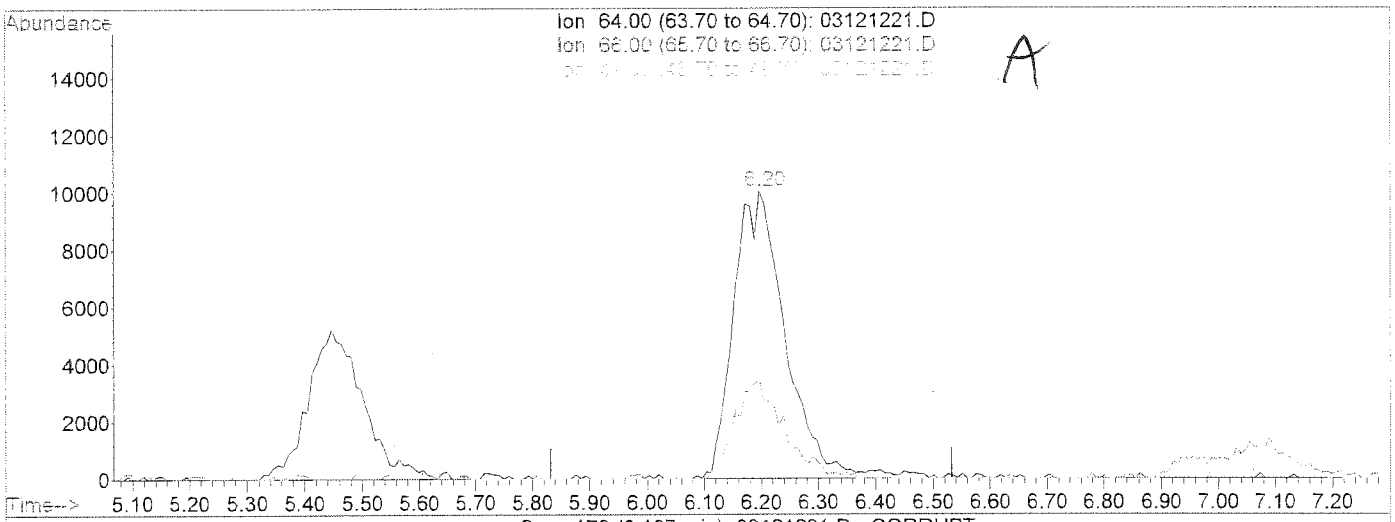
Ion	Exp%	Act%
64.00	100	100
66.00	32.30	69.91#
49.00	31.90	75.57#
0.00	0.00	0.00

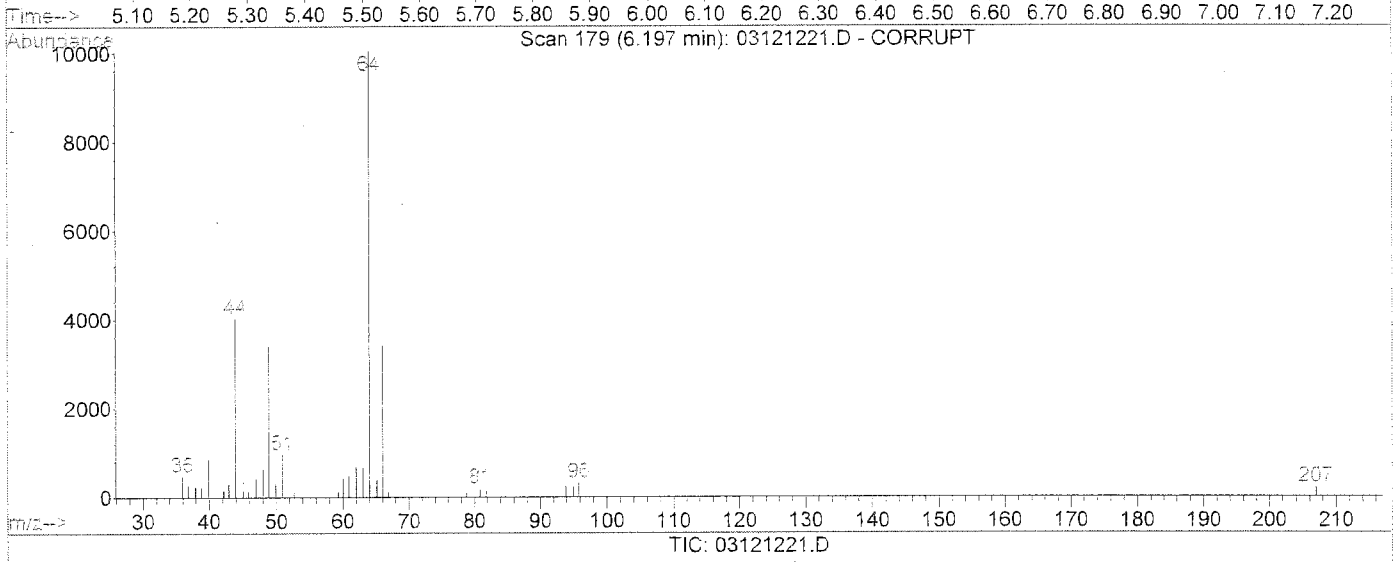
03121221.D 022812.M Tue Mar 13 09:14:32 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.20min 5.66ug/L m

response 61778

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.65
49.00	31.90	33.14
0.00	0.00	0.00

3/14/12

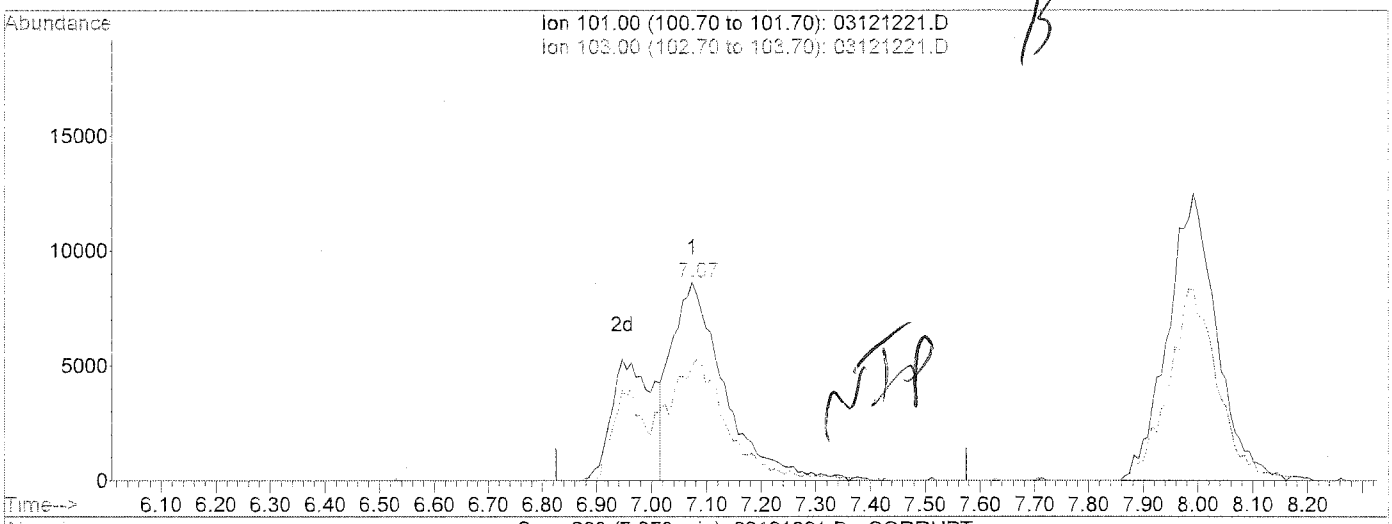
03121221.D 022812.M Tue Mar 13 09:14:41 2012

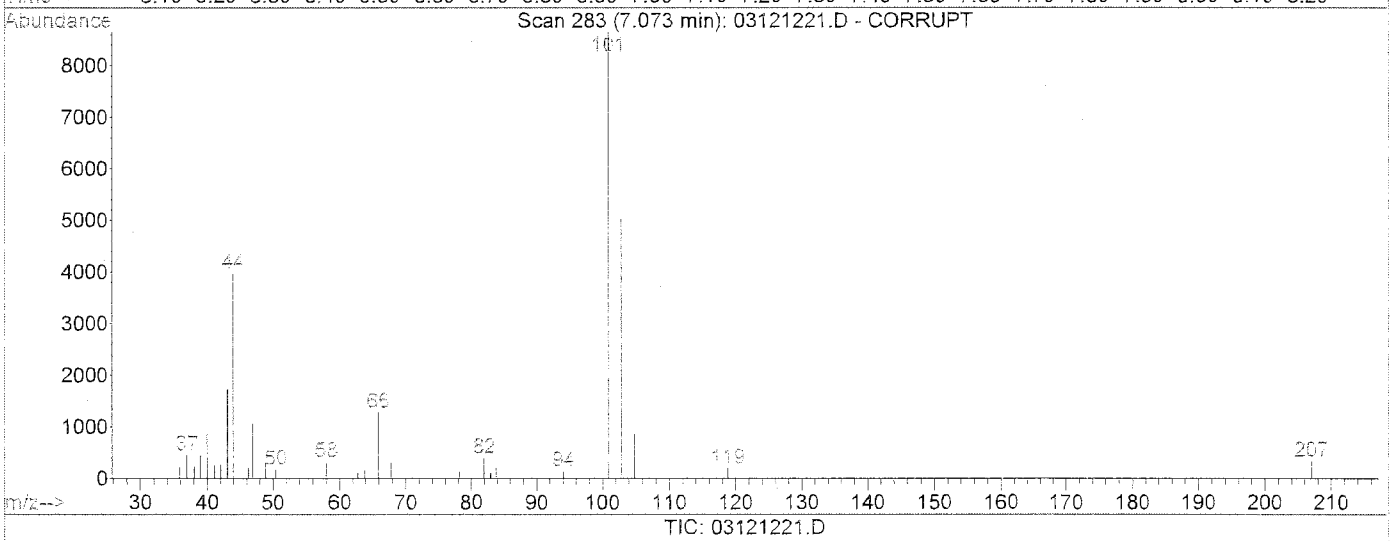
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

✓3/14/12

7.07min 3.39ug/L

response 57654

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	57.48
0.00	0.00	0.00
0.00	0.00	0.00

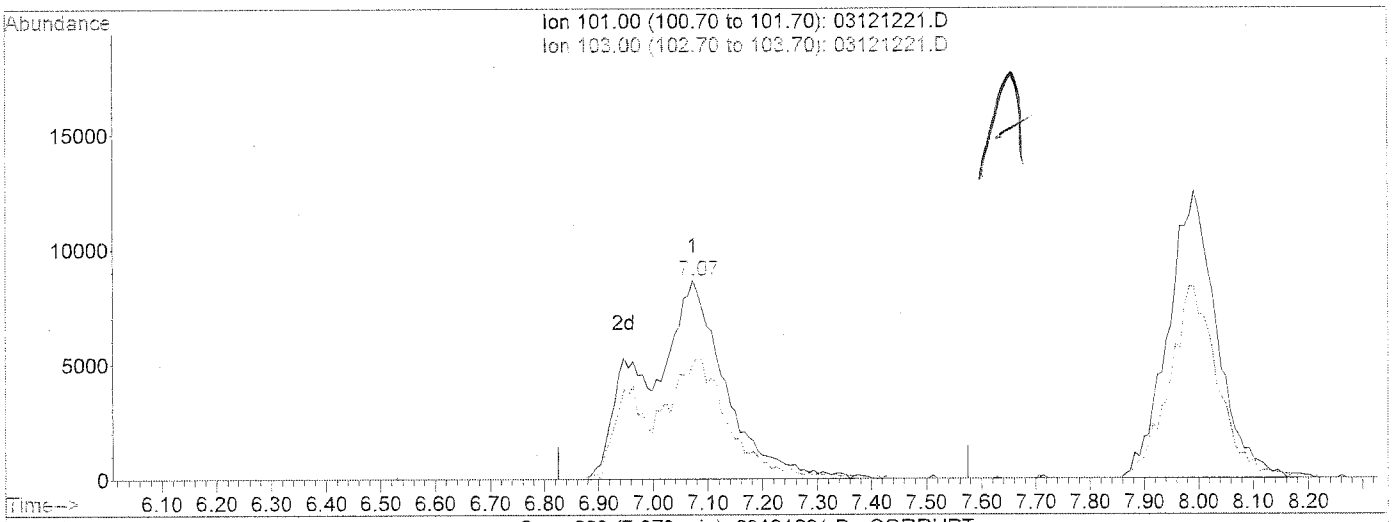
3/14/12

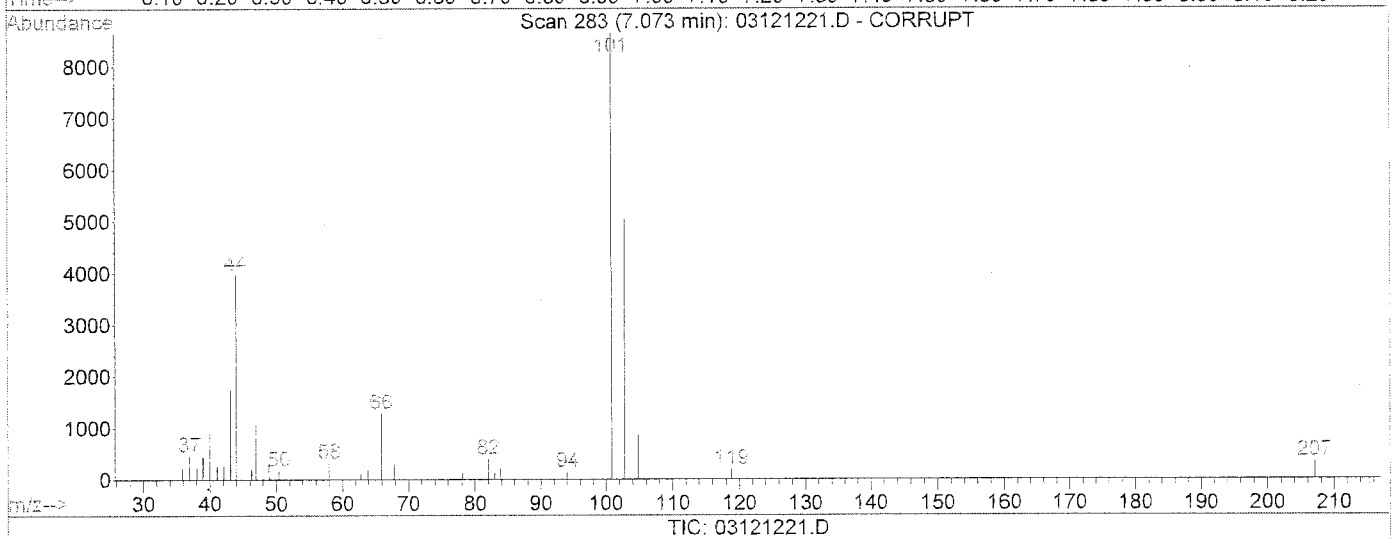
03121221.D 022812.M Tue Mar 13 09:14:46 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(12) Trichlorofluoromethane (T)

7.07min 5.01ug/L m

response 85242

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	58.23
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121221.D 022812.M Tue Mar 13 09:14:52 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	76456	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	463012	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	766030	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	618831	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	292085	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	291596	28.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 112.88%	
50) Toluene-d8 (surr)	14.19	98	857389	24.82 ug/L	0.01
Spiked Amount 25.000			Recovery	= 99.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	317679	24.52 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.08%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	16460	21.86 ug/L	98
5) Dichlorodifluoromethane	4.91	85	110753	5.47 ug/L	64
6) Chloromethane	5.09	50	133575	6.06 ug/L	99
7) Vinyl Chloride	5.46	62	107498	6.12 ug/L	98
8) 1,3-Butadiene	5.56	54	62405	5.61 ug/L	98
9) Bromomethane	5.99	94	77153	5.74 ug/L	98
10) Chloroethane	6.20	64	61778m	5.66 ug/L	
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	85242m	5.01 ug/L	
13) Acetone	7.12	43	20732	5.69 ug/L	94
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	106266	5.29 ug/L #	69
16) 1,1-Dichloroethene	7.71	96	68803	5.43 ug/L	99
17) Methylene Chloride	7.87	84	83668	5.28 ug/L	98
18) Freon 113	7.99	101	77474	5.77 ug/L	98
19) Carbon Disulfide	8.30	76	185994	5.54 ug/L #	86
20) trans-1,2-Dichloroethene	8.74	96	77181	5.19 ug/L	100
21) MTBE	8.87	73	114445	4.73 ug/L	97
22) 1,1-Dichloroethane	9.05	63	143370	5.27 ug/L	98
23) Vinyl Acetate	9.21	43	95240	4.29 ug/L	99
24) n-Hexane	9.55	86	14318	5.65 ug/L #	85
25) 2-Butanone (MEK)	9.59	72	4227	5.64 ug/L #	66
26) Diisopropylether (DIPE)	9.59	45	283282	5.61 ug/L	97
27) cis-1,2-Dichloroethene	9.79	96	74121	5.17 ug/L	99
28) Bromochloromethane	9.99	128	30183	5.13 ug/L	97
29) Chloroform	10.05	83	131665	5.09 ug/L	99
30) 2,2-Dichloropropane	10.16	77	78511	5.80 ug/L	91
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	167086	5.05 ug/L	98
33) Tetrahydrofuran	10.48	72	2388	3.65 ug/L #	72
34) 1,2-Dichloroethane	10.89	62	81294	4.83 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	101670	4.97 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	108456	4.86 ug/L	96
38) 1,1-Dichloropropene	11.25	75	85300	4.55 ug/L	98
39) Carbon Tetrachloride	11.49	117	87086	4.54 ug/L	99
40) Benzene	11.54	78	227657	4.64 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

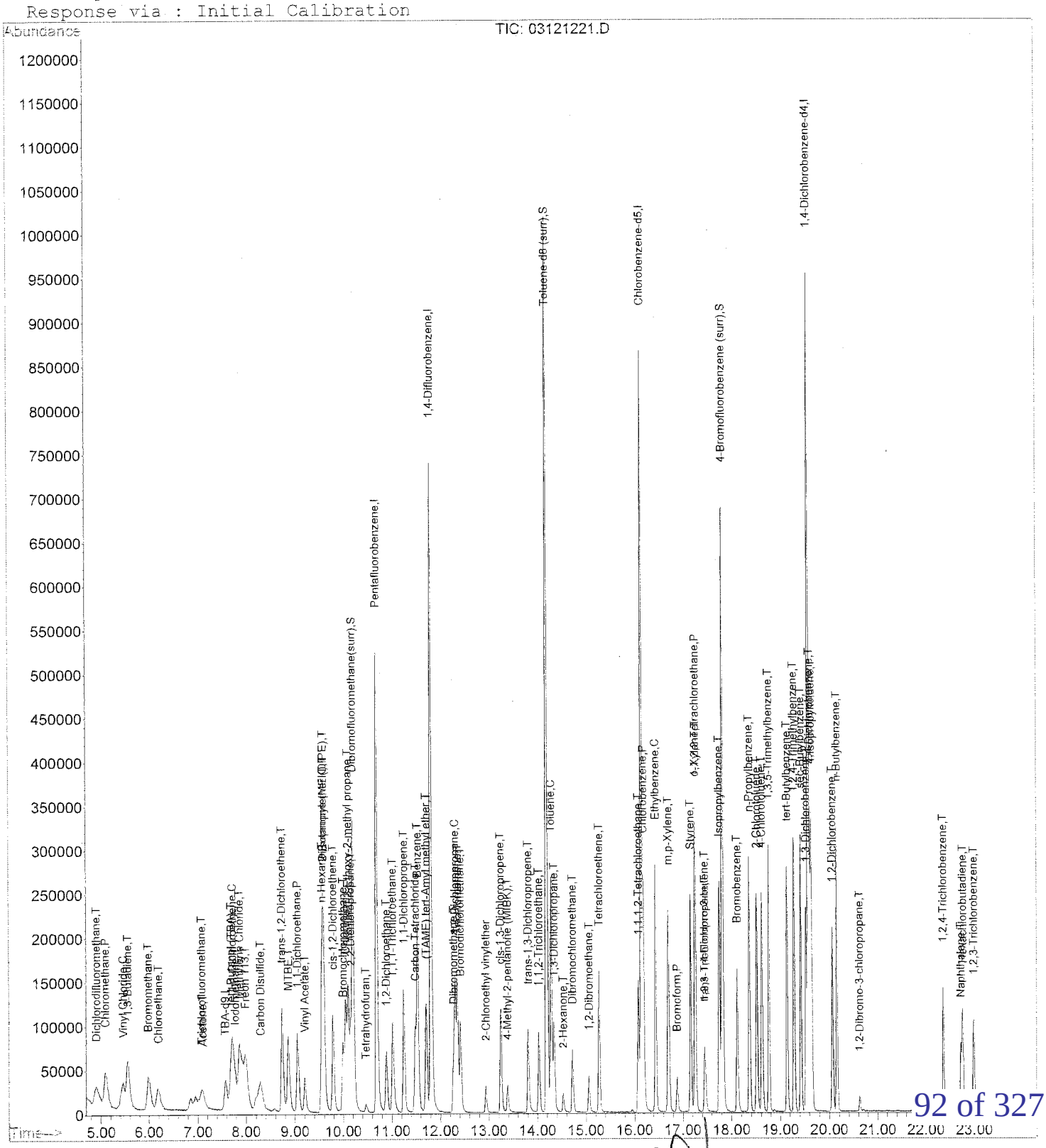
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	32809	4.54 ug/L	94
42) 1,2-Dichloropropane	12.31	63	66780	4.98 ug/L	96
43) Trichloroethene	12.36	95	66318	4.53 ug/L	99
44) Bromodichloromethane	12.42	83	87146	4.48 ug/L	96
45) 2-Chloroethyl vinylether	12.93	63	13618	3.21 ug/L	95
46) cis-1,3-Dichloropropene	13.25	75	81492	4.39 ug/L	97
47) 4-Methyl-2-pentanone (MIBK	13.39	43	33048	4.17 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	64809	4.25 ug/L	99
49) 1,1,2-Trichloroethane	14.03	97	38043	4.32 ug/L	99
51) Toluene	14.29	92	139870	4.59 ug/L	98
53) 1,3-Dichloropropane	14.35	76	67621	4.56 ug/L	97
54) 2-Hexanone	14.53	43	21791	4.16 ug/L	96
55) Dibromochloromethane	14.73	129	45499	4.22 ug/L	93
56) 1,2-Dibromoethane	15.06	107	36824	4.20 ug/L	100
57) Tetrachloroethene	15.27	164	45978	4.38 ug/L	96
58) 1,1,1,2-Tetrachloroethane	16.08	131	52675	4.58 ug/L	97
59) Chlorobenzene	16.19	112	153284	4.67 ug/L	97
60) Ethylbenzene	16.44	91	251227	4.66 ug/L	99
61) m,p-Xylene	16.71	106	96619	4.54 ug/L	98
62) Styrene	17.16	104	146562	4.53 ug/L	97
63) o-Xylene	17.26	106	100119	4.80 ug/L	96
66) Bromoform	16.88	173	24730	4.17 ug/L	96
67) 1,1,2,2-Tetrachloroethane	17.25	83	38634	4.72 ug/L	97
68) 1,2,3-Trichloropropane	17.45	110	10077	4.31 ug/L	95
69) trans-1,4-Dichloro-2-buten	17.46	53	12132	4.44 ug/L	95
70) Isopropylbenzene	17.76	105	221273	4.85 ug/L	100
71) Bromobenzene	18.12	156	52614	4.37 ug/L	90
72) n-Propylbenzene	18.37	91	285262	4.90 ug/L	99
73) 2-Chlorotoluene	18.52	91	182947	4.83 ug/L	99
74) 4-Chlorotoluene	18.62	91	185869	4.83 ug/L	99
75) 1,3,5-Trimethylbenzene	18.76	105	209492	4.96 ug/L	99
76) tert-Butylbenzene	19.15	119	158073	4.90 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	213299	4.90 ug/L	99
78) sec-Butylbenzene	19.43	105	261719	5.06 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	108274	4.75 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	107413	4.70 ug/L	98
81) 4-Isopropyltoluene	19.66	119	210458	5.00 ug/L	99
82) 1,2-Dichlorobenzene	20.06	146	92430	4.61 ug/L	99
83) n-Butylbenzene	20.15	91	200959	5.00 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	4941	3.76 ug/L	93
85) 1,2,4-Trichlorobenzene	22.37	180	59736	3.89 ug/L	98
86) Naphthalene	22.72	128	72945	3.70 ug/L	99
87) Hexachlorobutadiene	22.76	225	30626	4.26 ug/L	96
88) 1,2,3-Trichlorobenzene	22.99	180	47537	3.90 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:14 2012 Quant Results File: 022812.RES

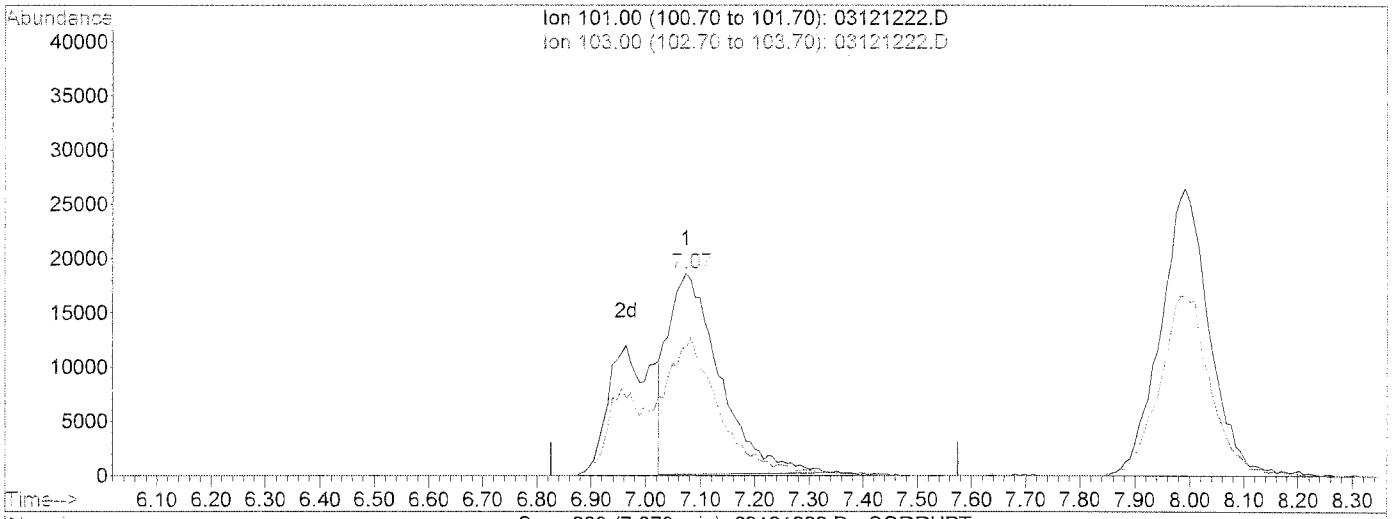
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

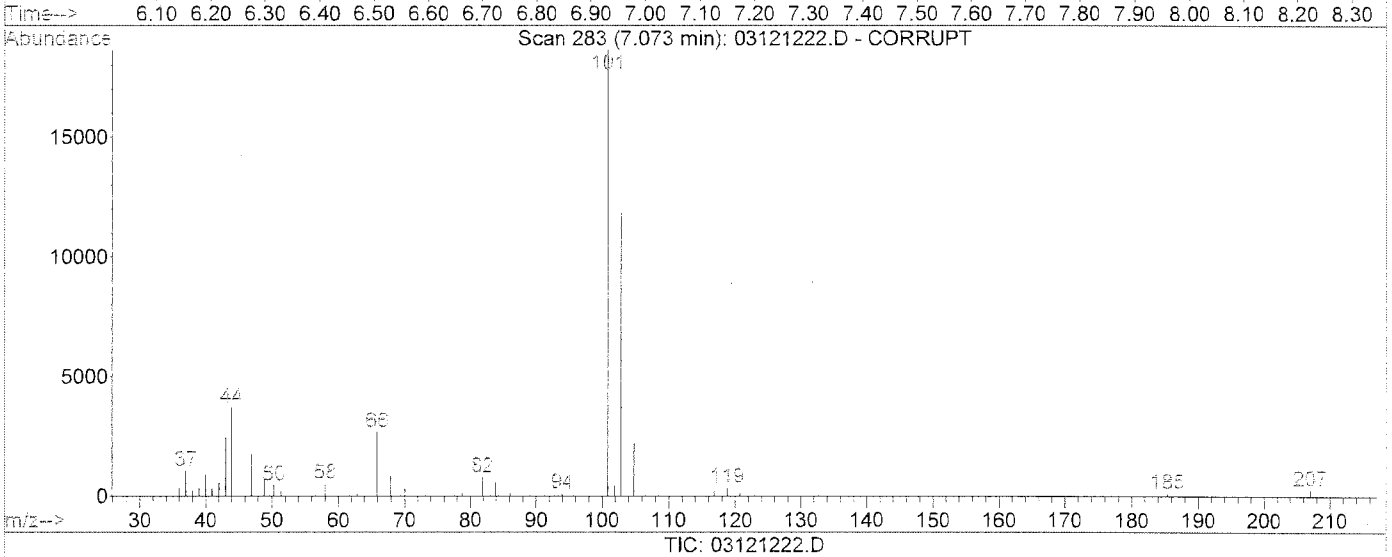


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 6.84ug/L

response 122363

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	62.83
0.00	0.00	0.00
0.00	0.00	0.00

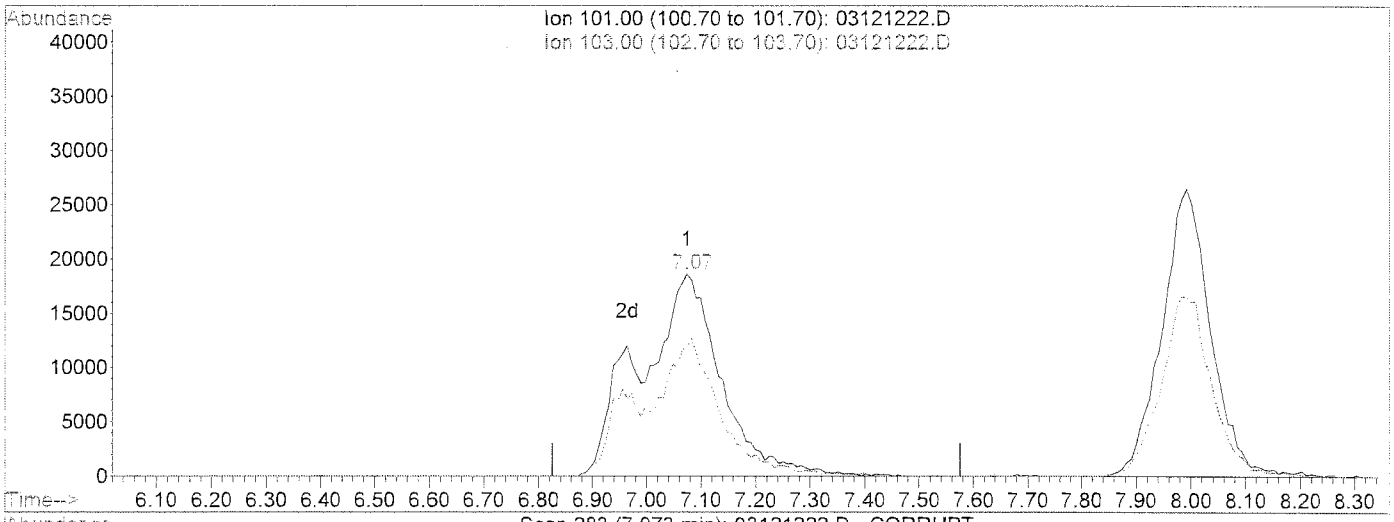
3/14/12

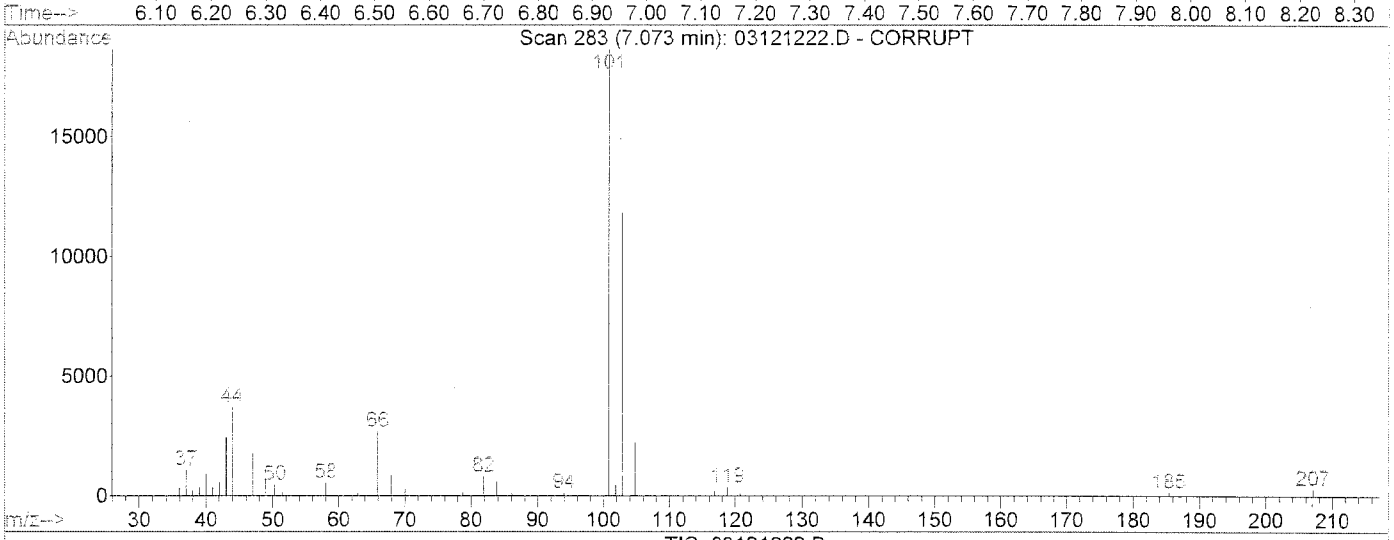
03121222.D 022812.M Tue Mar 13 09:15:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 10.72ug/L m

response 191737

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	63.43
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121222.D 022812.M Tue Mar 13 09:15:44 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	79757	200.00 ug/L	0.01
4) Pentafluorobenzene	10.70	168	486849	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	775452	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	624308	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	295653	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	296755	27.31 ug/L	0.01
Spiked Amount 25.000			Recovery	= 109.24%	
50) Toluene-d8 (surr)	14.19	98	855889	24.47 ug/L	0.01
Spiked Amount 25.000			Recovery	= 97.88%	
64) 4-Bromofluorobenzene (surr	17.82	95	323147	24.73 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.92%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	34389	43.79 ug/L	98
5) Dichlorodifluoromethane	4.91	85	233414	10.97 ug/L	100
6) Chloromethane	5.10	50	272897	11.76 ug/L	99
7) Vinyl Chloride	5.46	62	225890	12.23 ug/L	99
8) 1,3-Butadiene	5.56	54	134123	11.47 ug/L	97
9) Bromomethane	5.99	94	161442	11.43 ug/L	100
10) Chloroethane	6.19	64	130470	11.36 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	191737m	10.72 ug/L	
13) Acetone	7.12	43	41674	10.88 ug/L #	69
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	229034	10.85 ug/L	98
16) 1,1-Dichloroethene	7.72	96	140650	10.56 ug/L	99
17) Methylene Chloride	7.87	84	173009	10.38 ug/L	98
18) Freon 113	7.99	101	163942	11.61 ug/L	98
19) Carbon Disulfide	8.29	76	407260	11.54 ug/L #	94
20) trans-1,2-Dichloroethene	8.74	96	170398	10.90 ug/L	98
21) MTBE	8.87	73	258623	10.18 ug/L	99
22) 1,1-Dichloroethane	9.06	63	310679	10.87 ug/L	100
23) Vinyl Acetate	9.21	43	223071	9.56 ug/L	99
24) n-Hexane	9.55	86	29312	10.99 ug/L #	81
25) 2-Butanone (MEK)	9.59	72	9452	11.98 ug/L #	99
26) Diisopropylether (DIPE)	9.59	45	576872	10.86 ug/L	97
27) cis-1,2-Dichloroethene	9.79	96	157998	10.48 ug/L	99
28) Bromochloromethane	10.00	128	64587	10.44 ug/L	97
29) Chloroform	10.05	83	270666	9.96 ug/L	98
30) 2,2-Dichloropropane	10.16	77	165885	11.65 ug/L	98
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	360908	10.38 ug/L	99
33) Tetrahydrofuran	10.48	72	5986	8.71 ug/L #	88
34) 1,2-Dichloroethane	10.89	62	165680	9.36 ug/L	97
35) 1,1,1-Trichloroethane	11.02	97	207576	9.66 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	231521	9.87 ug/L	97
38) 1,1-Dichloropropene	11.25	75	184066	9.70 ug/L	100
39) Carbon Tetrachloride	11.49	117	182649	9.42 ug/L	100
40) Benzene	11.54	78	471097	9.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121222.D 022812.M Tue Mar 13 09:16:07 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

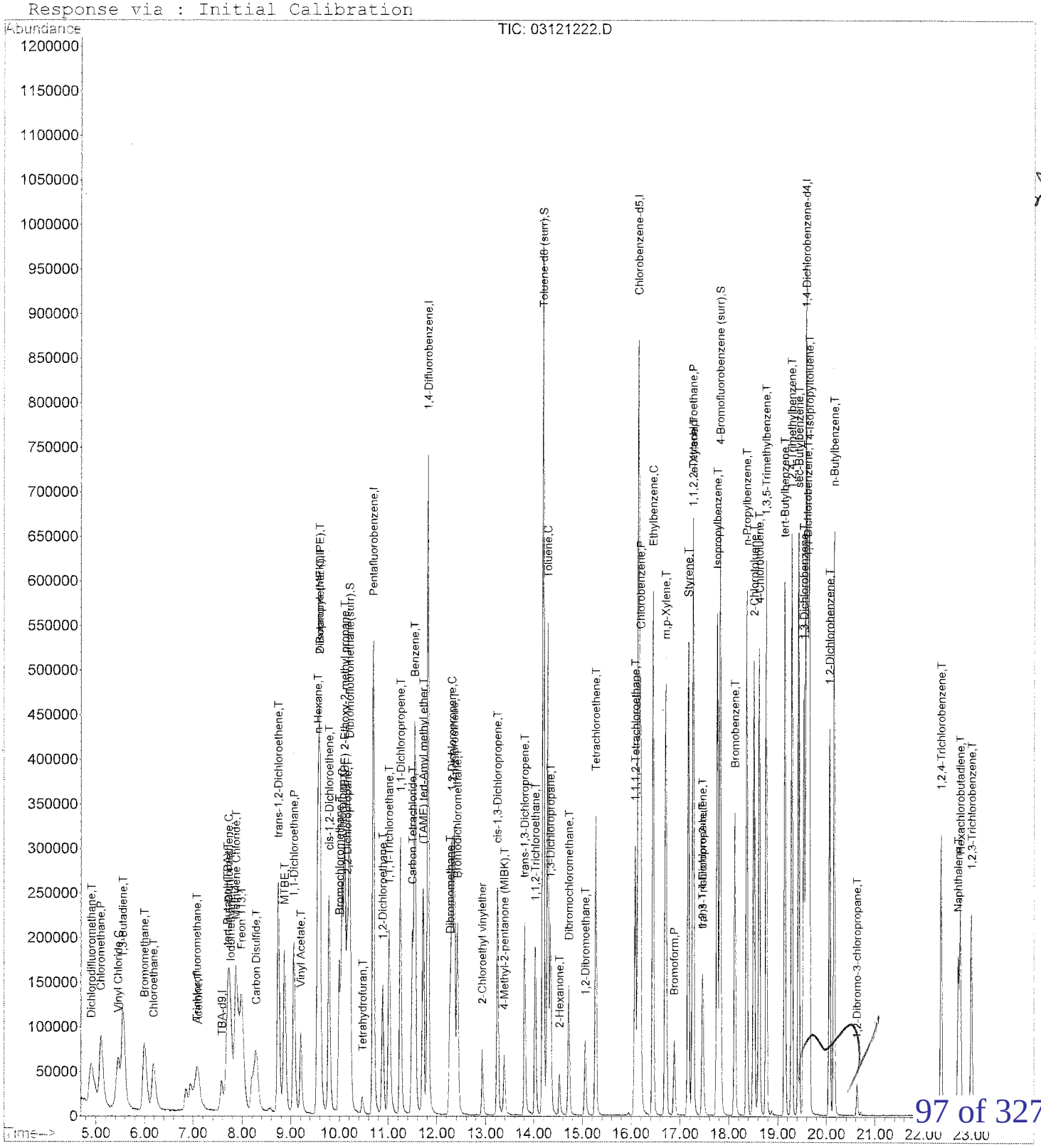
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	69674	9.52 ug/L	96
42)	1,2-Dichloropropane	12.31	63	136171	10.04 ug/L	97
43)	Trichloroethene	12.36	95	134365	9.07 ug/L	97
44)	Bromodichloromethane	12.42	83	181335	9.21 ug/L	97
45)	2-Chloroethyl vinylether	12.93	63	34649	8.08 ug/L	99
46)	cis-1,3-Dichloropropene	13.25	75	176827	9.42 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	73057	9.11 ug/L	95
48)	trans-1,3-Dichloropropene	13.81	75	142327	9.22 ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	80867	9.08 ug/L	96
51)	Toluene	14.29	92	295981	9.60 ug/L	99
53)	1,3-Dichloropropane	14.35	76	137303	9.18 ug/L	100
54)	2-Hexanone	14.53	43	47420	8.98 ug/L	97
55)	Dibromochloromethane	14.73	129	98268	9.03 ug/L	99
56)	1,2-Dibromoethane	15.06	107	80699	9.13 ug/L	99
57)	Tetrachloroethene	15.27	164	96745	9.15 ug/L	96
58)	1,1,1,2-Tetrachloroethane	16.08	131	108882	9.38 ug/L	98
59)	Chlorobenzene	16.19	112	319501	9.66 ug/L	100
60)	Ethylbenzene	16.44	91	540022	9.92 ug/L	100
61)	m,p-Xylene	16.71	106	211035	9.83 ug/L	97
62)	Styrene	17.16	104	322967	9.89 ug/L	98
63)	o-Xylene	17.26	106	204818	9.73 ug/L	98
66)	Bromoform	16.88	173	53397	8.89 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	79551	9.60 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	21262	8.99 ug/L	95
69)	trans-1,4-Dichloro-2-buten	17.46	53	27862	10.06 ug/L	95
70)	Isopropylbenzene	17.76	105	484544	10.50 ug/L	100
71)	Bromobenzene	18.12	156	113822	9.33 ug/L	96
72)	n-Propylbenzene	18.37	91	610210	10.35 ug/L	98
73)	2-Chlorotoluene	18.52	91	383349	10.00 ug/L	99
74)	4-Chlorotoluene	18.62	91	392324	10.06 ug/L	100
75)	1,3,5-Trimethylbenzene	18.76	105	434114	10.15 ug/L	99
76)	tert-Butylbenzene	19.14	119	339794	10.42 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	453994	10.31 ug/L	100
78)	sec-Butylbenzene	19.43	105	550104	10.51 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	225183	9.76 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	223736	9.68 ug/L	99
81)	4-Isopropyltoluene	19.65	119	439864	10.32 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	191958	9.46 ug/L	98
83)	n-Butylbenzene	20.15	91	426494	10.48 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.62	75	10602	7.97 ug/L	93
85)	1,2,4-Trichlorobenzene	22.36	180	134922	8.68 ug/L	99
86)	Naphthalene	22.71	128	178240	8.93 ug/L	99
87)	Hexachlorobutadiene	22.76	225	64556	8.88 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	105646	8.56 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:15 2012 Quant Results File: 022812.RES

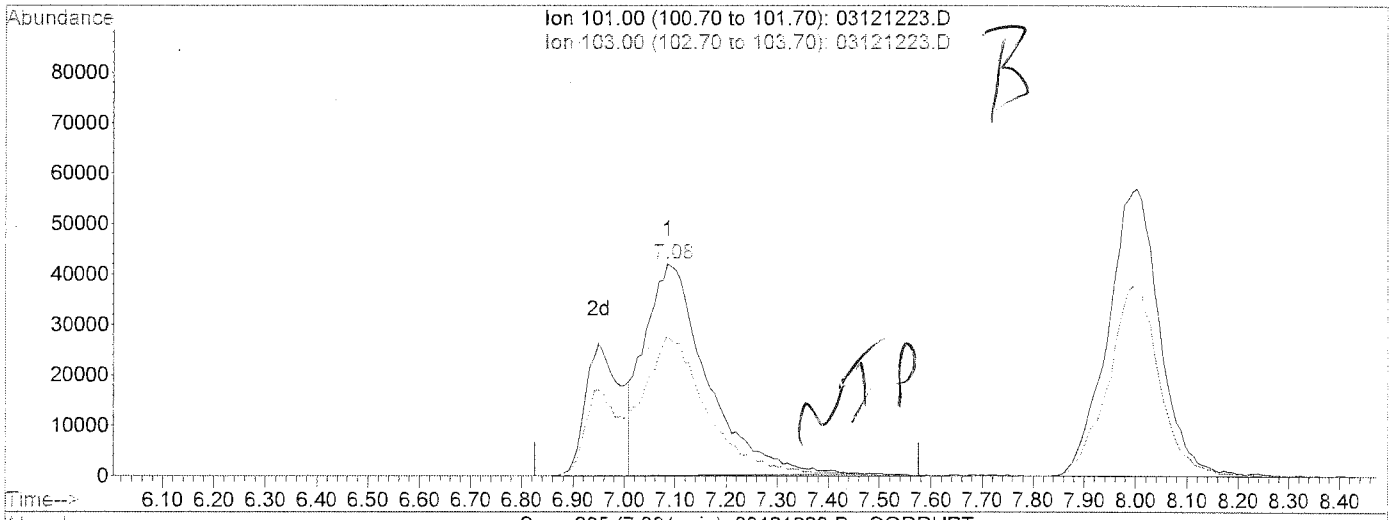
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

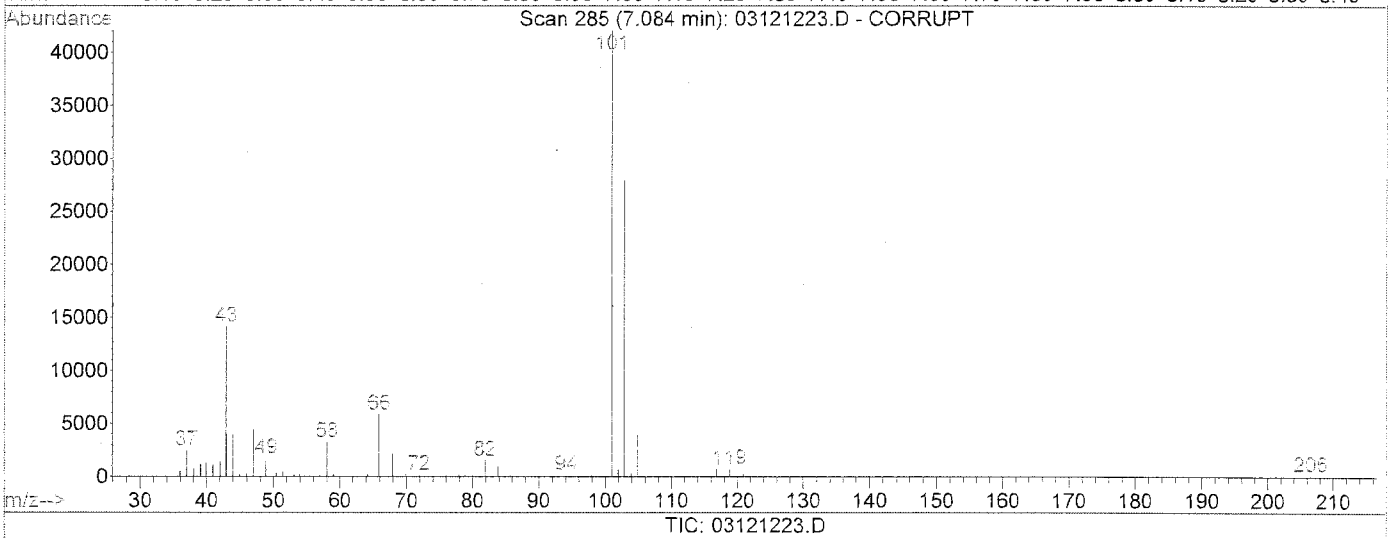


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 19.91ug/L

response 360529

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	66.63
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

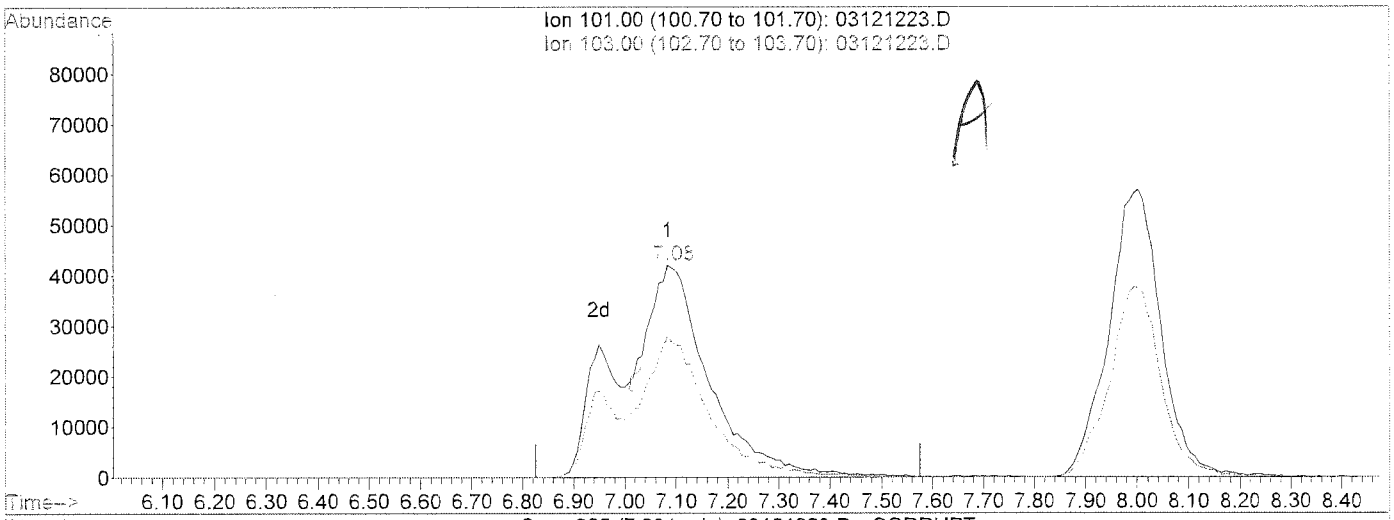
M 3/14/12

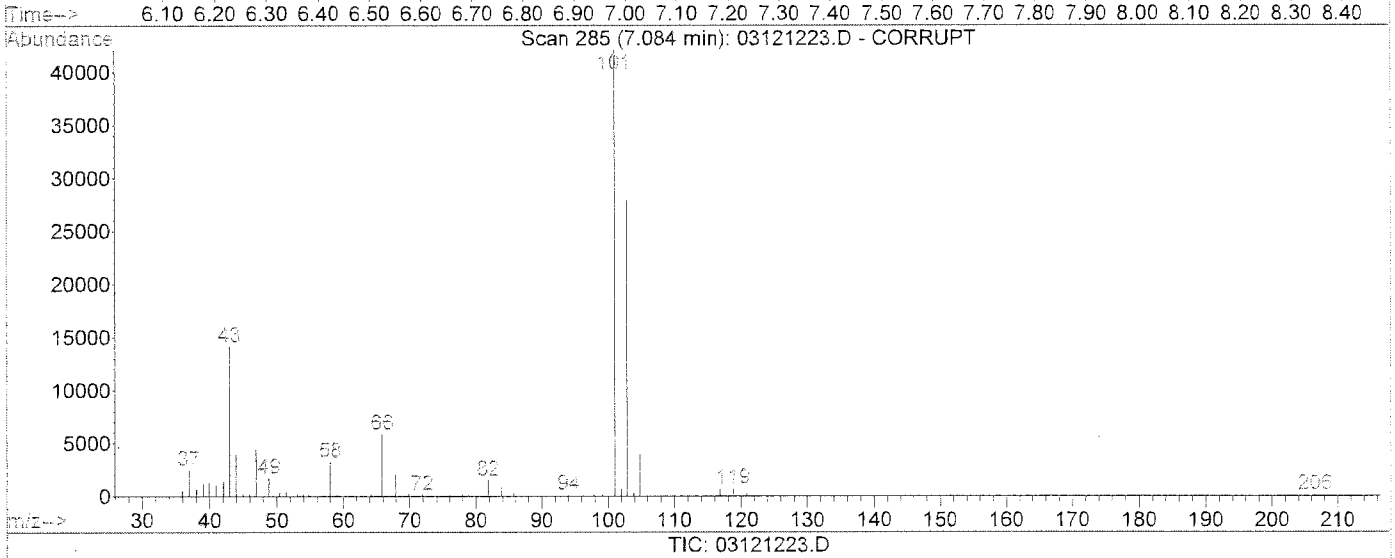
03121223.D 022812.M Tue Mar 13 09:18:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 27.31ug/L m

response 494534

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	66.43
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

03121223.D 022812.M Tue Mar 13 09:18:10 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	80167	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	492791	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	798415	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	646440	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	305368	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	282508	25.69 ug/L	0.00
Spiked Amount 25.000			Recovery = 102.76%		
50) Toluene-d8 (surr)	14.19	98	892210	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery = 99.12%		
64) 4-Bromofluorobenzene (surr	17.82	95	336364	24.86 ug/L	0.02
Spiked Amount 25.000			Recovery = 99.44%		

Target Compounds					Qvalue
2) Ethanol	6.18	45	10390	136.22 ug/L #	67
3) tert-Butanol (TBA)	7.68	59	89818	113.79 ug/L	97
5) Dichlorodifluoromethane	4.90	85	571399	26.53 ug/L	99
6) Chloromethane	5.13	50	651733	27.76 ug/L	99
7) Vinyl Chloride	5.48	62	564408	30.18 ug/L	100
8) 1,3-Butadiene	5.55	54	335852	28.38 ug/L	96
9) Bromomethane	6.01	94	379783	26.56 ug/L	99
10) Chloroethane	6.20	64	322361	27.73 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	494534m	27.31 ug/L	
13) Acetone	7.11	43	90791	23.41 ug/L	99
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	562587	26.33 ug/L	98
16) 1,1-Dichloroethene	7.72	96	357567	26.52 ug/L	100
17) Methylene Chloride	7.87	84	408422	24.21 ug/L	97
18) Freon 113	8.00	101	398046	27.84 ug/L	98
19) Carbon Disulfide	8.30	76	982895	27.51 ug/L #	89
20) trans-1,2-Dichloroethene	8.74	96	415053	26.22 ug/L	98
21) MTBE	8.87	73	633555	24.63 ug/L	98
22) 1,1-Dichloroethane	9.06	63	740526	25.60 ug/L	100
23) Vinyl Acetate	9.20	43	579235	24.53 ug/L	100
24) n-Hexane	9.55	86	75389	27.93 ug/L	97
25) 2-Butanone (MEK)	9.59	72	20601	25.81 ug/L #	68
26) Diisopropylether (DIPE)	9.59	45	1385358	25.76 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	381596	25.01 ug/L	98
28) Bromochloromethane	9.99	128	154452	24.66 ug/L	98
29) Chloroform	10.05	83	645080	23.44 ug/L	99
30) 2,2-Dichloropropane	10.15	77	379633	26.35 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	908740	25.81 ug/L	99
33) Tetrahydrofuran	10.47	72	14974	21.53 ug/L	92
34) 1,2-Dichloroethane	10.89	62	406910	22.71 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	510320	23.46 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	610177	25.70 ug/L	98
38) 1,1-Dichloropropene	11.25	75	458167	23.45 ug/L	99
39) Carbon Tetrachloride	11.49	117	449604	22.51 ug/L	99
40) Benzene	11.54	78	1178264	23.04 ug/L	100

(#) = qualifier out of range (m) = manual integration

03121223.D 022812.M Tue Mar 13 09:18:35 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	166858	22.14 ug/L	97
42)	1,2-Dichloropropane	12.31	63	332258	23.79 ug/L	97
43)	Trichloroethene	12.35	95	341021	22.37 ug/L	99
44)	Bromodichloromethane	12.42	83	437229	21.57 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	97654	22.12 ug/L	98
46)	cis-1,3-Dichloropropene	13.24	75	467175	24.16 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.39	43	181696	22.00 ug/L	100
48)	trans-1,3-Dichloropropene	13.81	75	372724	23.46 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	198985	21.69 ug/L	97
51)	Toluene	14.29	92	735769	23.17 ug/L	99
53)	1,3-Dichloropropane	14.35	76	348633	22.52 ug/L	98
54)	2-Hexanone	14.53	43	129484	23.67 ug/L	97
55)	Dibromochloromethane	14.72	129	251236	22.31 ug/L	98
56)	1,2-Dibromoethane	15.06	107	202411	22.11 ug/L	98
57)	Tetrachloroethene	15.28	164	246323	22.49 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	272056	22.64 ug/L	100
59)	Chlorobenzene	16.19	112	816871	23.85 ug/L	99
60)	Ethylbenzene	16.45	91	1368328	24.28 ug/L	99
61)	m,p-Xylene	16.71	106	546344	24.57 ug/L	97
62)	Styrene	17.16	104	842432	24.92 ug/L	98
63)	o-Xylene	17.26	106	534418	24.53 ug/L	96
66)	Bromoform	16.89	173	140639	22.68 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	200319	23.40 ug/L	100
68)	1,2,3-Trichloropropane	17.45	110	57525	23.56 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	74246	25.96 ug/L	98
70)	Isopropylbenzene	17.76	105	1233820	25.89 ug/L	99
71)	Bromobenzene	18.12	156	293836	23.32 ug/L	95
72)	n-Propylbenzene	18.37	91	1552221	25.48 ug/L	98
73)	2-Chlorotoluene	18.51	91	979196	24.73 ug/L	98
74)	4-Chlorotoluene	18.62	91	998478	24.80 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	1124979	25.47 ug/L	98
76)	tert-Butylbenzene	19.14	119	872188	25.89 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	1152465	25.33 ug/L	99
78)	sec-Butylbenzene	19.43	105	1389193	25.69 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	564256	23.67 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	559180	23.42 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1104698	25.11 ug/L	100
82)	1,2-Dichlorobenzene	20.06	146	497593	23.73 ug/L	99
83)	n-Butylbenzene	20.15	91	1074212	25.57 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.63	75	29119	21.18 ug/L	94
85)	1,2,4-Trichlorobenzene	22.36	180	355534	22.15 ug/L	98
86)	Naphthalene	22.72	128	470024	22.79 ug/L	98
87)	Hexachlorobutadiene	22.76	225	161440	21.50 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	269901	21.17 ug/L	99

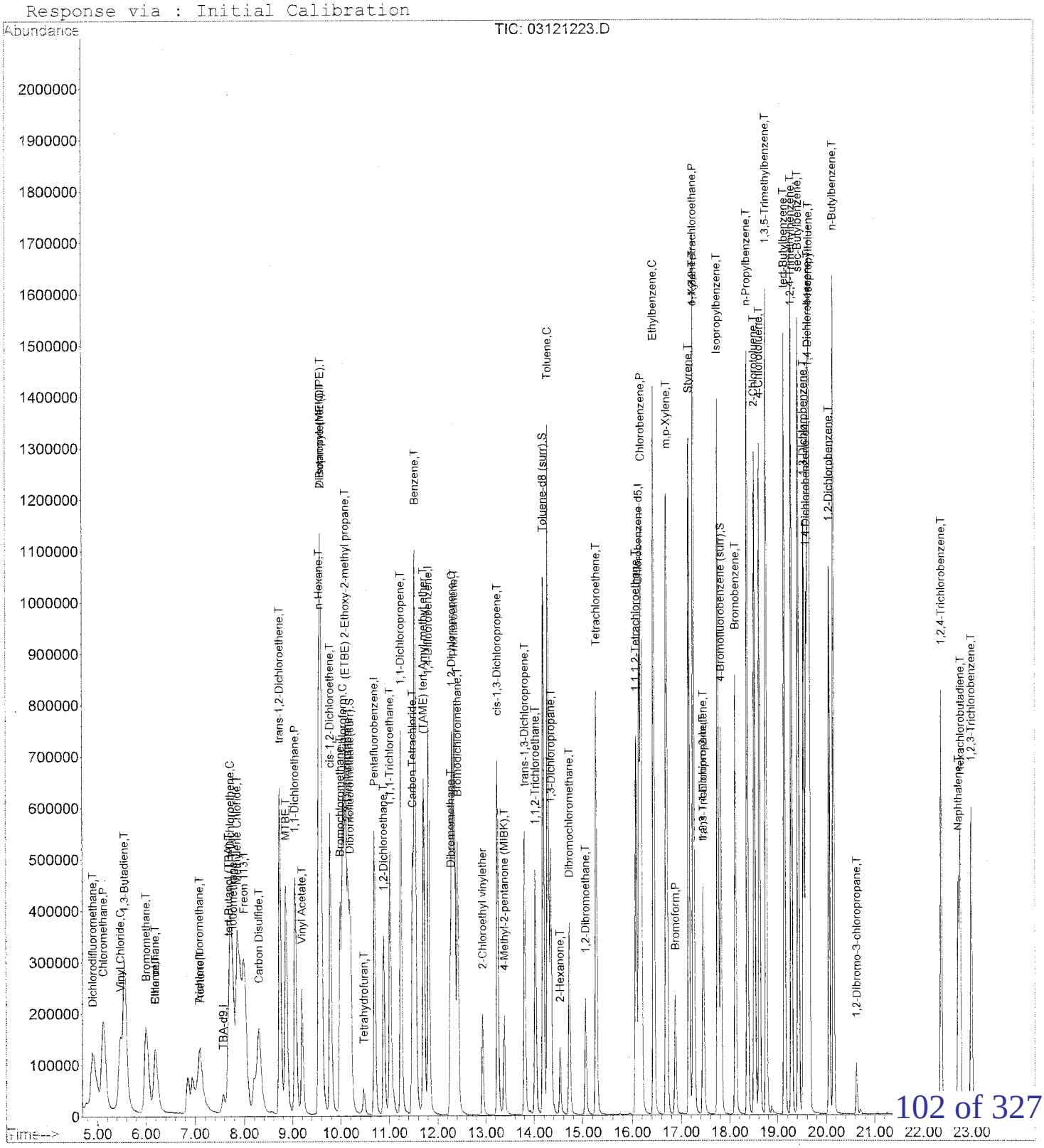
M

(#) = qualifier out of range (m) = manual integration
03121223.D 022812.M Tue Mar 13 09:18:35 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

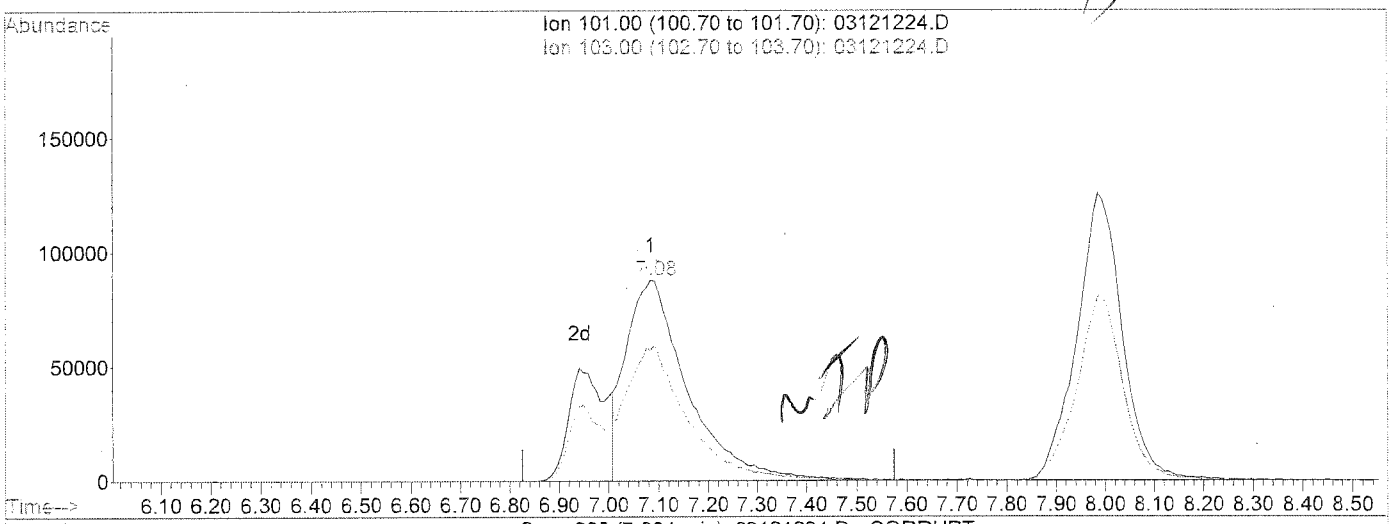


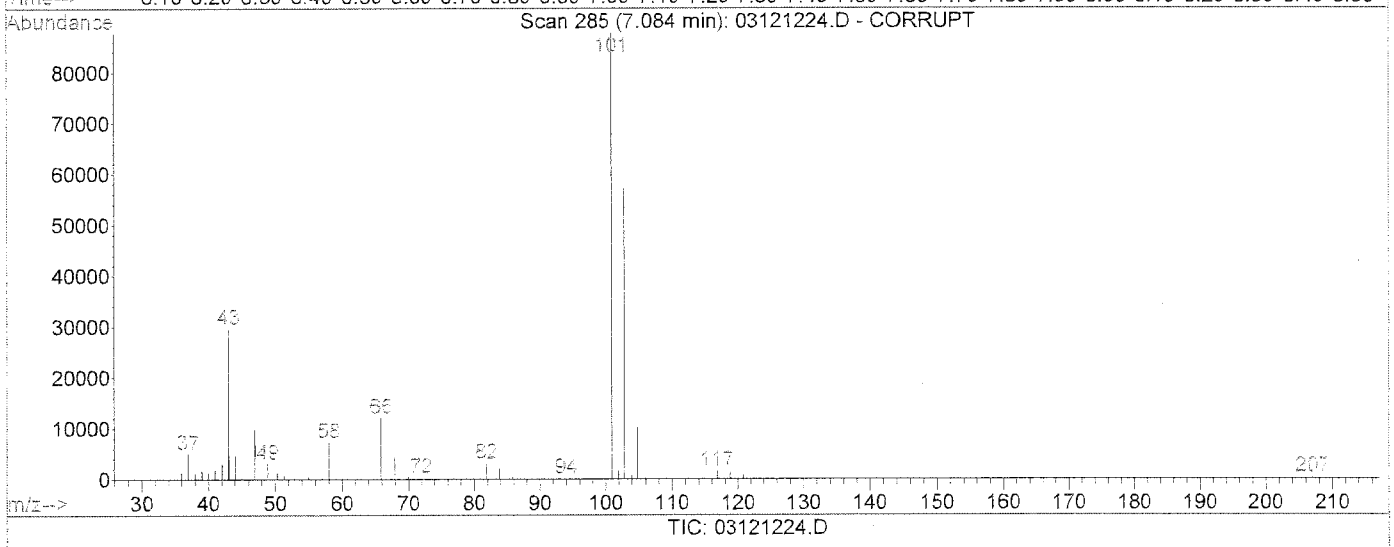
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

7.08min 40.31ug/L

response 749173

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.83
0.00	0.00	0.00
0.00	0.00	0.00

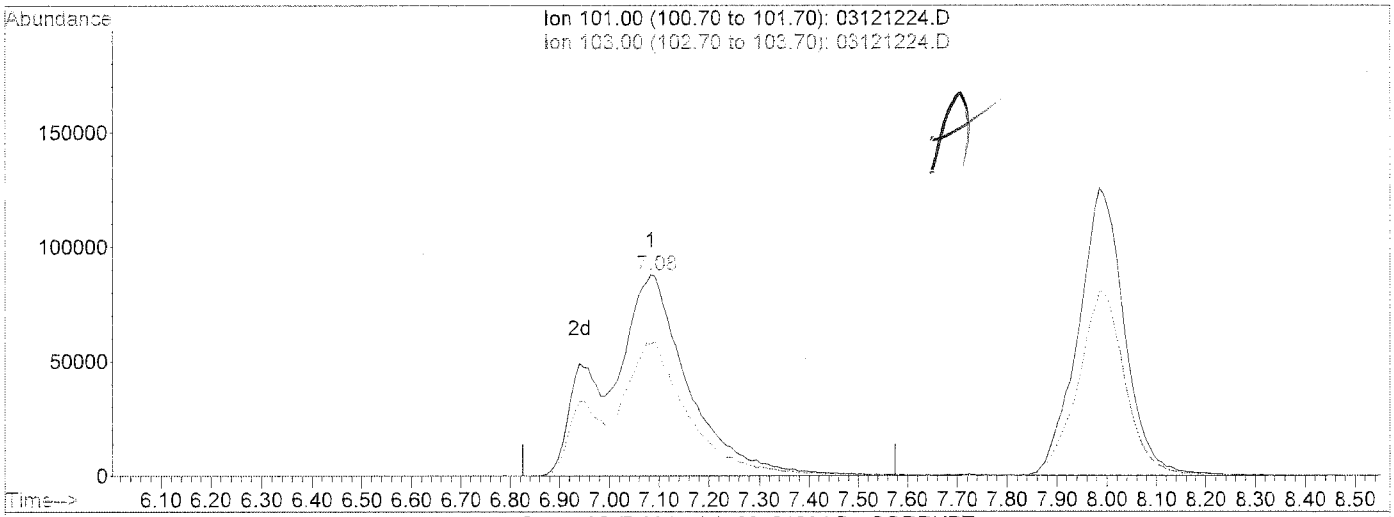
✓3/14/12

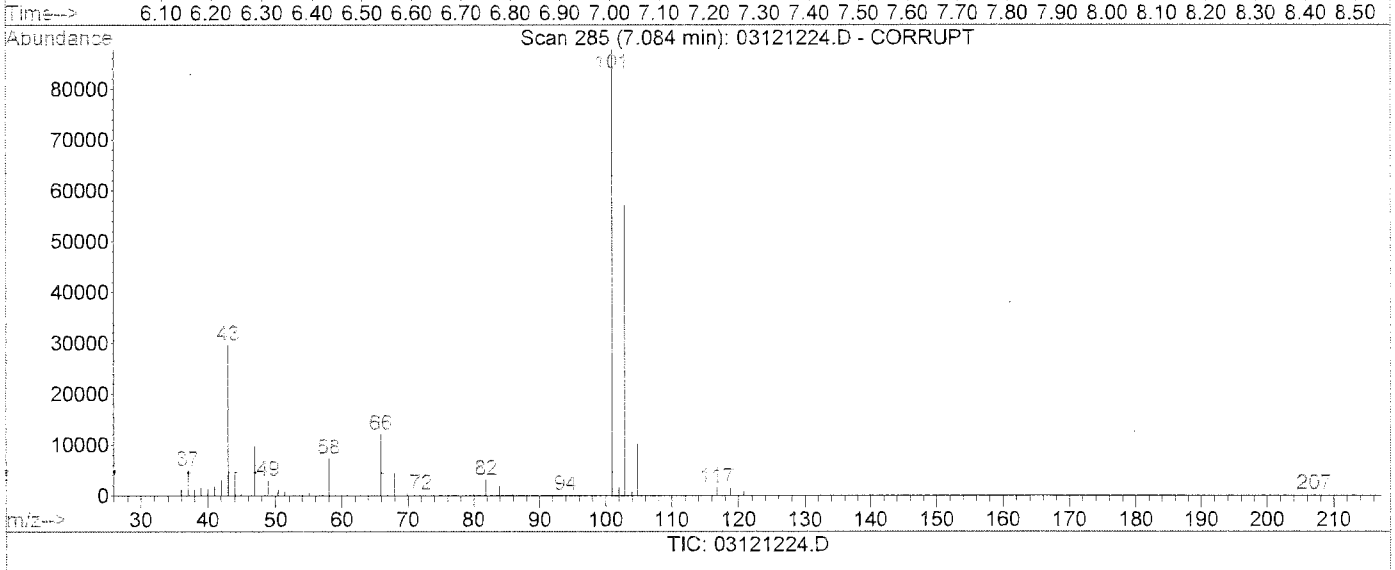
03121224.D 022812.M Tue Mar 13 09:18:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.08min 54.37ug/L m

response 1010296

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.05
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121224.D 022812.M Tue Mar 13 09:19:00 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95808	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	505691	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	832158	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	687622	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	321829	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311361	27.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 110.36%	
50) Toluene-d8 (surr)	14.19	98	951272	25.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.36%	
64) 4-Bromofluorobenzene (surr	17.82	95	366260	25.45 ug/L	0.02
Spiked Amount 25.000			Recovery	= 101.80%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	31106	341.24 ug/L #	82
3) tert-Butanol (TBA)	7.68	59	203364	215.57 ug/L	99
5) Dichlorodifluoromethane	4.89	85	1170906	52.99 ug/L	100
6) Chloromethane	5.13	50	1251329	51.94 ug/L	100
7) Vinyl Chloride	5.47	62	1121383	58.43 ug/L	100
8) 1,3-Butadiene	5.56	54	682368	56.19 ug/L	96
9) Bromomethane	6.01	94	768871	52.39 ug/L	99
10) Chloroethane	6.19	64	675756	56.64 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	1010296m	54.37 ug/L	
13) Acetone	7.10	43	170392	42.81 ug/L	98
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	1161293	52.96 ug/L	98
16) 1,1-Dichloroethene	7.72	96	732773	52.96 ug/L	99
17) Methylene Chloride	7.87	84	837287	48.37 ug/L	99
18) Freon 113	7.99	101	805807	54.93 ug/L	98
19) Carbon Disulfide	8.30	76	2001163	54.59 ug/L #	97
20) trans-1,2-Dichloroethene	8.74	96	821510	50.58 ug/L	99
21) MTBE	8.86	73	1361624	51.58 ug/L	99
22) 1,1-Dichloroethane	9.06	63	1451271	48.88 ug/L	100
23) Vinyl Acetate	9.20	43	1259910	51.99 ug/L	100
24) n-Hexane	9.55	86	146059	52.74 ug/L	96
25) 2-Butanone (MEK)	9.59	72	41313	50.43 ug/L #	76
26) Diisopropylether (DIPE)	9.59	45	2822889	51.15 ug/L	100
27) cis-1,2-Dichloroethene	9.78	96	765459	48.88 ug/L	98
28) Bromochloromethane	9.99	128	304560	47.38 ug/L	99
29) Chloroform	10.05	83	1272068	45.05 ug/L	99
30) 2,2-Dichloropropane	10.16	77	752114	50.86 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	1917641	53.07 ug/L	99
33) Tetrahydrofuran	10.47	72	33967	47.60 ug/L	95
34) 1,2-Dichloroethane	10.88	62	821650	44.69 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	1015237	45.48 ug/L	99
36) (TAME) tert-Amyl methyl et	11.71	73	1329392	54.57 ug/L	98
38) 1,1-Dichloropropene	11.25	75	918652	45.11 ug/L	99
39) Carbon Tetrachloride	11.49	117	896641	43.07 ug/L	100
40) Benzene	11.54	78	2320089	43.53 ug/L	99

(#) = qualifier out of range (m) = manual integration

M 4/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

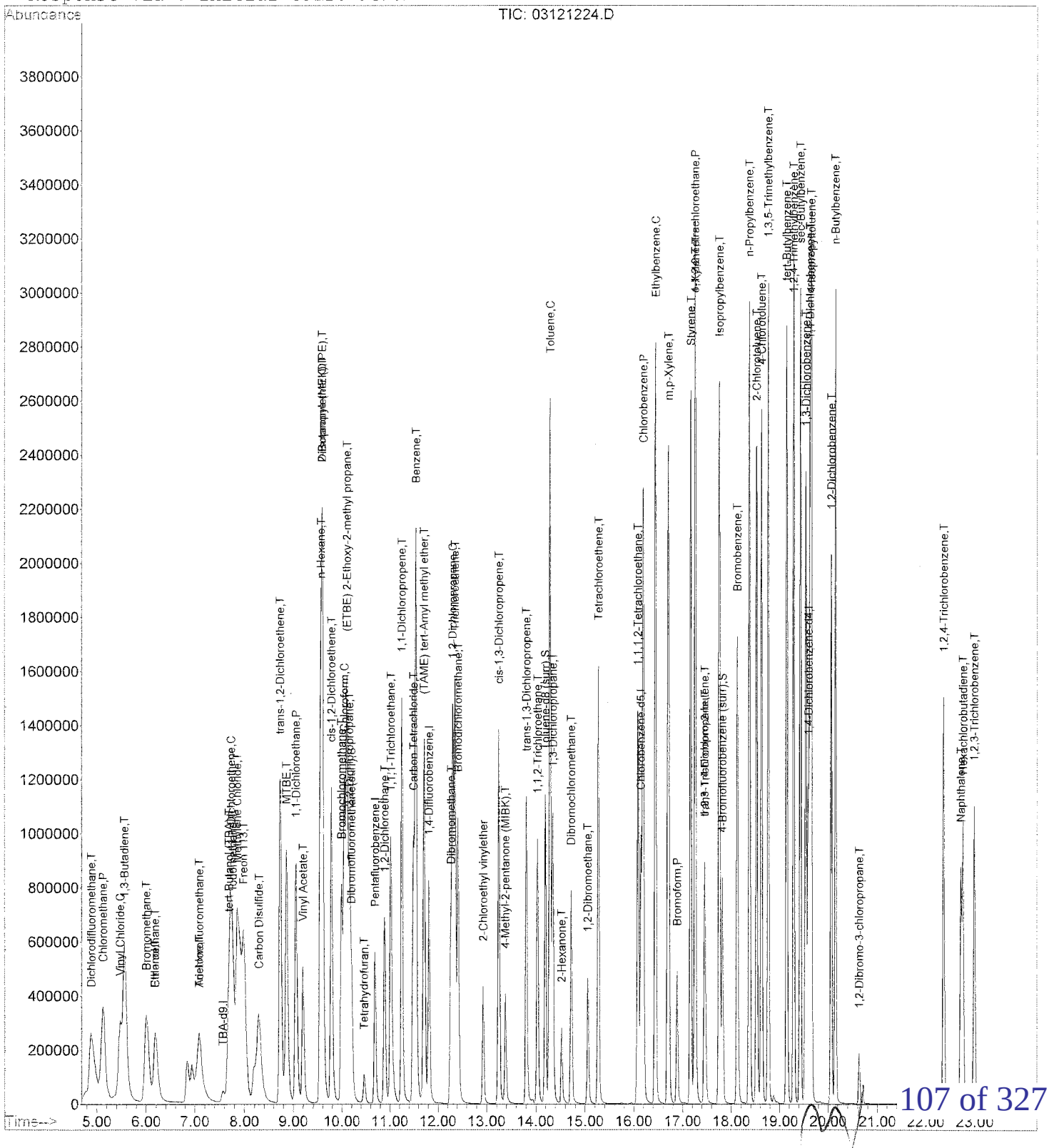
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	345678	44.00 ug/L	98
42)	1,2-Dichloropropane	12.31	63	662396	45.51 ug/L	97
43)	Trichloroethene	12.35	95	678421	42.70 ug/L	98
44)	Bromodichloromethane	12.42	83	871260	41.23 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	219445	47.68 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	950520	47.17 ug/L	99
47)	4-Methyl-2-pentanone (MIBK	13.38	43	415856	48.31 ug/L	99
48)	trans-1,3-Dichloropropene	13.81	75	770779	46.55 ug/L	99
49)	1,1,2-Trichloroethane	14.03	97	410295	42.91 ug/L	96
51)	Toluene	14.29	92	1476094	44.59 ug/L	99
53)	1,3-Dichloropropane	14.35	76	724028	43.97 ug/L	99
54)	2-Hexanone	14.53	43	278124	47.81 ug/L	98
55)	Dibromochloromethane	14.72	129	536153	44.76 ug/L	98
56)	1,2-Dibromoethane	15.06	107	430576	44.23 ug/L	98
57)	Tetrachloroethene	15.28	164	492240	42.25 ug/L	97
58)	1,1,1,2-Tetrachloroethane	16.08	131	552879	43.25 ug/L	99
59)	Chlorobenzene	16.19	112	1614447	44.31 ug/L	99
60)	Ethylbenzene	16.45	91	2680791	44.72 ug/L	98
61)	m,p-Xylene	16.71	106	1099514	46.49 ug/L	95
62)	Styrene	17.16	104	1699103	47.25 ug/L	99
63)	o-Xylene	17.26	106	1052417	45.41 ug/L	95
66)	Bromoform	16.88	173	305125	46.69 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	398581	44.18 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	117325	45.59 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.47	53	155721	51.67 ug/L	99
70)	Isopropylbenzene	17.76	105	2455061	48.88 ug/L	98
71)	Bromobenzene	18.12	156	604663	45.54 ug/L	98
72)	n-Propylbenzene	18.37	91	3067944	47.79 ug/L	98
73)	2-Chlorotoluene	18.51	91	1895002	45.42 ug/L	97
74)	4-Chlorotoluene	18.62	91	1940467	45.72 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	2166661	46.55 ug/L	98
76)	tert-Butylbenzene	19.14	119	1698137	47.82 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	2222051	46.34 ug/L	98
78)	sec-Butylbenzene	19.43	105	2630729	46.17 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	1123463	44.71 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	1111125	44.15 ug/L	99
81)	4-Isopropyltoluene	19.65	119	2109353	45.48 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	949412	42.97 ug/L	99
83)	n-Butylbenzene	20.15	91	2025855	45.75 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	55980	38.64 ug/L	97
85)	1,2,4-Trichlorobenzene	22.36	180	655637	38.75 ug/L	99
86)	Naphthalene	22.72	128	893510	41.11 ug/L	100
87)	Hexachlorobutadiene	22.76	225	291640	36.85 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	507949	37.81 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121224.D 022812.M Tue Mar 13 09:21:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:19 2012 Quant Results File: 022812.RES

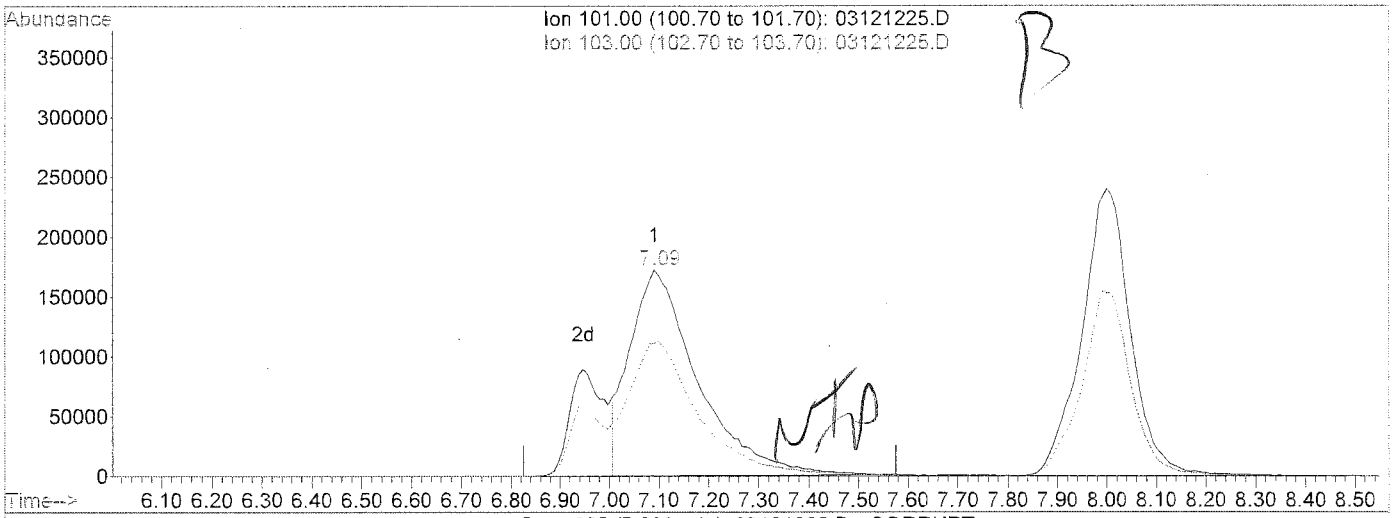
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

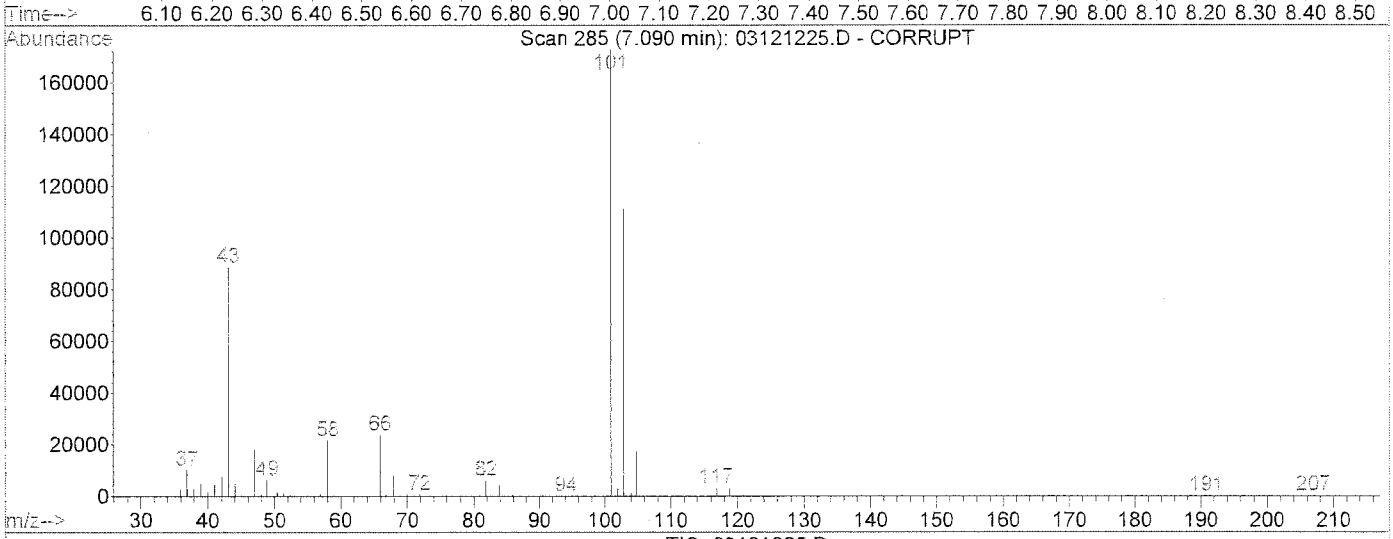


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 84.52ug/L

response 1634179

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.17
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

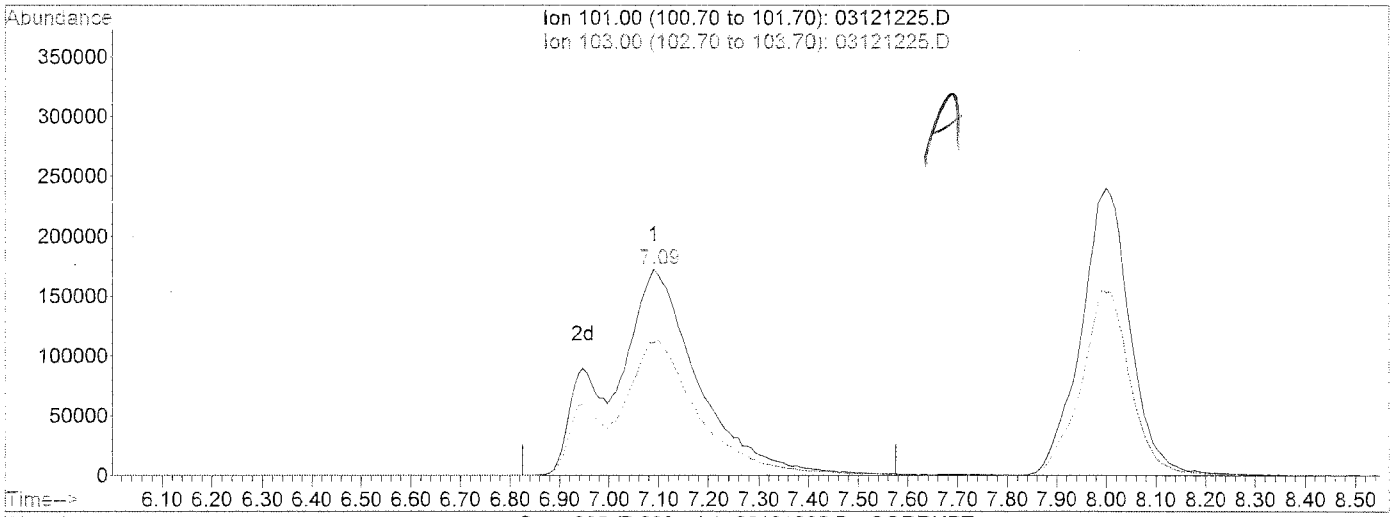
03121225.D 022812.M Tue Mar 13 09:22:19 2012

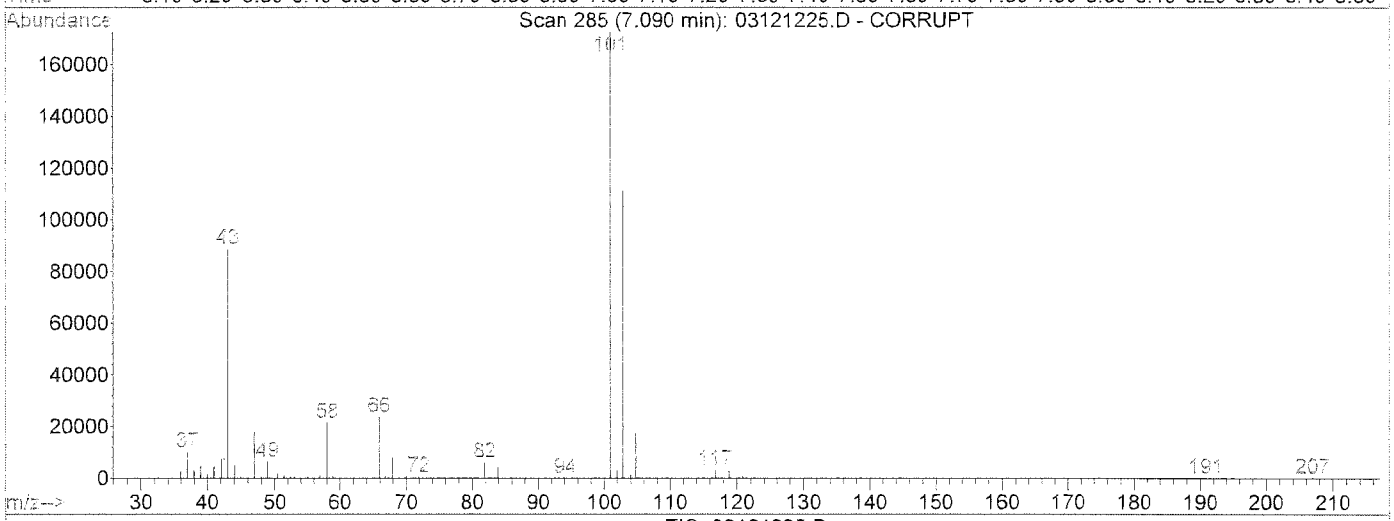
3/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 109.05ug/L m

response 2108425

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	64.33
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121225.D 022812.M Tue Mar 13 09:22:28 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	94067	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	526147	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	853823	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	696263	25.00 ug/L	0.02
65) 1,4-Dichlorobenzene-d4	19.59	152	313009	25.00 ug/L	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	307753	26.21 ug/L	~~0.01~~
Spiked Amount 25.000			Recovery =	104.84%	
50) Toluene-d8 (surr)	14.19	98	962276	24.99 ug/L	0.01
Spiked Amount 25.000			Recovery =	99.96%	
64) 4-Bromofluorobenzene (surr	17.83	95	360586	24.74 ug/L	0.02
Spiked Amount 25.000			Recovery =	98.96%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	64588	721.66 ug/L	91
3) tert-Butanol (TBA)	7.69	59	408002	440.50 ug/L	99
5) Dichlorodifluoromethane	4.89	85	2234246	97.17 ug/L	99
6) Chloromethane	5.15	50	2258803	90.11 ug/L	99
7) Vinyl Chloride	5.50	62	2194641	109.91 ug/L	100
8) 1,3-Butadiene	5.57	54	1342878	106.29 ug/L	95
9) Bromomethane	6.04	94	1541604	100.96 ug/L	100
10) Chloroethane	6.19	64	1354400	109.11 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.09	101	2108425m	109.05 ug/L	
13) Acetone	7.11	43	454007	109.64 ug/L	97
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.79	142	2370435	103.90 ug/L	98
16) 1,1-Dichloroethene	7.72	96	1496591	103.97 ug/L	98
17) Methylene Chloride	7.87	84	1683716	93.49 ug/L	99
18) Freon 113	8.00	101	1639379	107.41 ug/L	99
19) Carbon Disulfide	8.30	76	4203887	110.21 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	1687124	99.84 ug/L	97
21) MTBE	8.87	73	2872186	104.57 ug/L	99
22) 1,1-Dichloroethane	9.05	63	2977288	96.38 ug/L	99
23) Vinyl Acetate	9.20	43	2482982	98.48 ug/L	100
24) n-Hexane	9.55	86	297911	103.38 ug/L	98
25) 2-Butanone (MEK)	9.58	72	97052	113.87 ug/L #	67
26) Diisopropylether (DIPE)	9.59	45	5507827	95.92 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	1554391	95.40 ug/L	98
28) Bromochloromethane	10.00	128	620382	92.76 ug/L	96
29) Chloroform	10.05	83	2488261	84.70 ug/L	98
30) 2,2-Dichloropropane	10.16	77	1452856	94.43 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	3808314	101.30 ug/L	100
33) Tetrahydrofuran	10.47	72	72074	97.07 ug/L	95
34) 1,2-Dichloroethane	10.88	62	1630673	85.24 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	2038914	87.78 ug/L	100
36) (TAME) tert-Amyl methyl et	11.72	73	2665391	105.16 ug/L	98
38) 1,1-Dichloropropene	11.25	75	1869229	89.45 ug/L	99
39) Carbon Tetrachloride	11.49	117	1814717	84.96 ug/L	100
40) Benzene	11.54	78	4560182	83.40 ug/L	100

(#) = qualifier out of range (m) = manual integration

03121225.D 022812.M Tue Mar 13 09:23:02 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

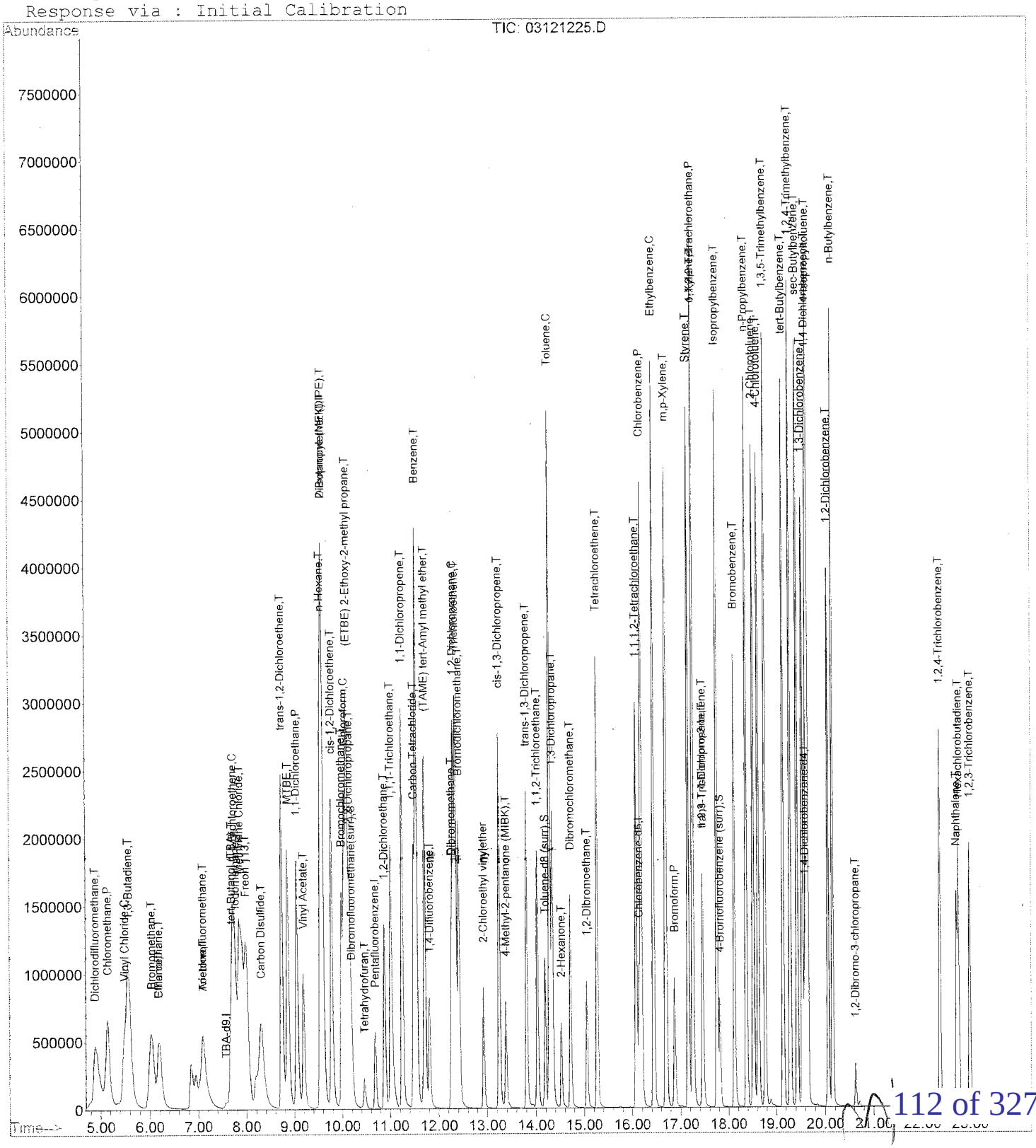
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	690752	85.69 ug/L	99
42)	1,2-Dichloropropane	12.31	63	1283808	85.96 ug/L	97
43)	Trichloroethene	12.36	95	1354042	83.06 ug/L	98
44)	Bromodichloromethane	12.42	83	1781553	82.17 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	465769	98.64 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	1929971	93.34 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	843667	95.52 ug/L	98
48)	trans-1,3-Dichloropropene	13.81	75	1595199	93.90 ug/L	97
49)	1,1,2-Trichloroethane	14.03	97	832358	84.84 ug/L	95
51)	Toluene	14.29	92	2939931	86.56 ug/L	96
53)	1,3-Dichloropropane	14.35	76	1454646	87.25 ug/L	99
54)	2-Hexanone	14.53	43	643669	109.26 ug/L	95
55)	Dibromochloromethane	14.73	129	1094089	90.20 ug/L	98
56)	1,2-Dibromoethane	15.06	107	877357	89.00 ug/L	98
57)	Tetrachloroethene	15.27	164	1002509	84.98 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	1132266	87.48 ug/L	99
59)	Chlorobenzene	16.19	112	3184850	86.33 ug/L	98
60)	Ethylbenzene	16.44	91	5215321	85.93 ug/L	97
61)	m,p-Xylene	16.71	106	2178411	90.97 ug/L	93
62)	Styrene	17.16	104	3350551	92.03 ug/L	98
63)	o-Xylene	17.26	106	2073146	88.34 ug/L	93
66)	Bromoform	16.89	173	621242	97.74 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	754227	85.95 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	233597	93.32 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.46	53	309682	105.65 ug/L	97
70)	Isopropylbenzene	17.76	105	4731190	96.85 ug/L	97
71)	Bromobenzene	18.12	156	1190012	92.16 ug/L	98
72)	n-Propylbenzene	18.37	91	5814099	93.12 ug/L	96
73)	2-Chlorotoluene	18.52	91	3709452	91.41 ug/L	97
74)	4-Chlorotoluene	18.62	91	3748227	90.81 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	4198069	92.74 ug/L	96
76)	tert-Butylbenzene	19.15	119	3270817	94.71 ug/L	96
77)	1,2,4-Trimethylbenzene	19.29	105	4240200	90.93 ug/L	97
78)	sec-Butylbenzene	19.43	105	5007012	90.35 ug/L	97
79)	1,3-Dichlorobenzene	19.54	146	2204189	90.20 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	2137550	87.32 ug/L	99
81)	4-Isopropyltoluene	19.66	119	4023962	89.22 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	1834639	85.37 ug/L	99
83)	n-Butylbenzene	20.15	91	3763246	87.38 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.62	75	100034	70.99 ug/L	99
85)	1,2,4-Trichlorobenzene	22.36	180	1224059	74.38 ug/L	99
86)	Naphthalene	22.71	128	1654160	78.25 ug/L	100
87)	Hexachlorobutadiene	22.76	225	553037	71.84 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	921072	70.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121225.D 022812.M Tue Mar 13 09:23:03 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:22 2012 Quant Results File: 022812.RES

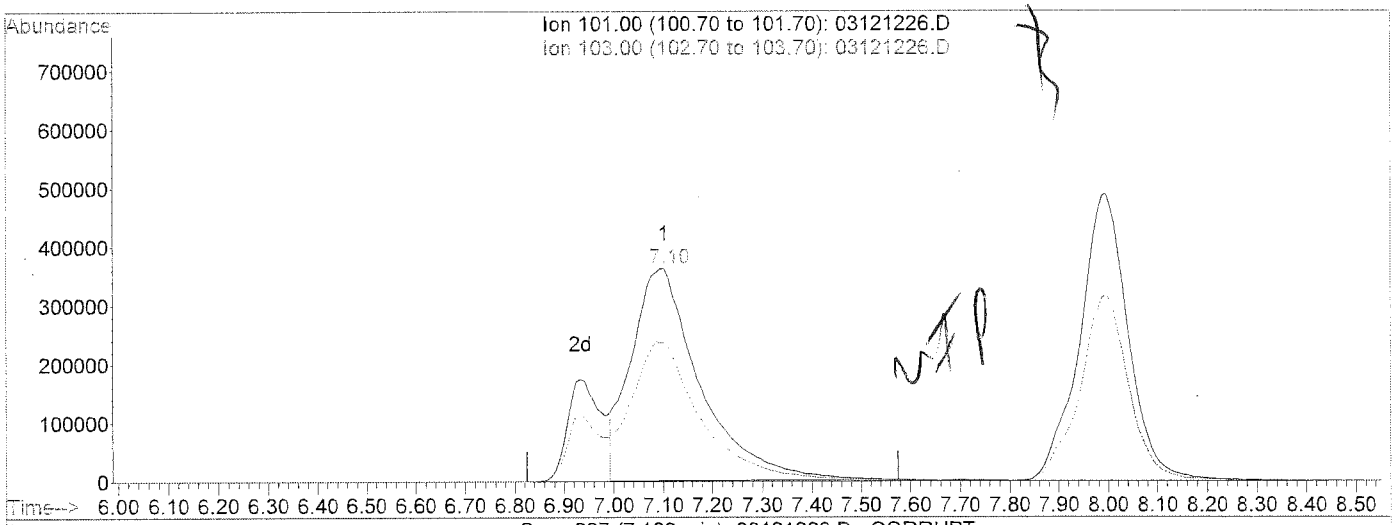
Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

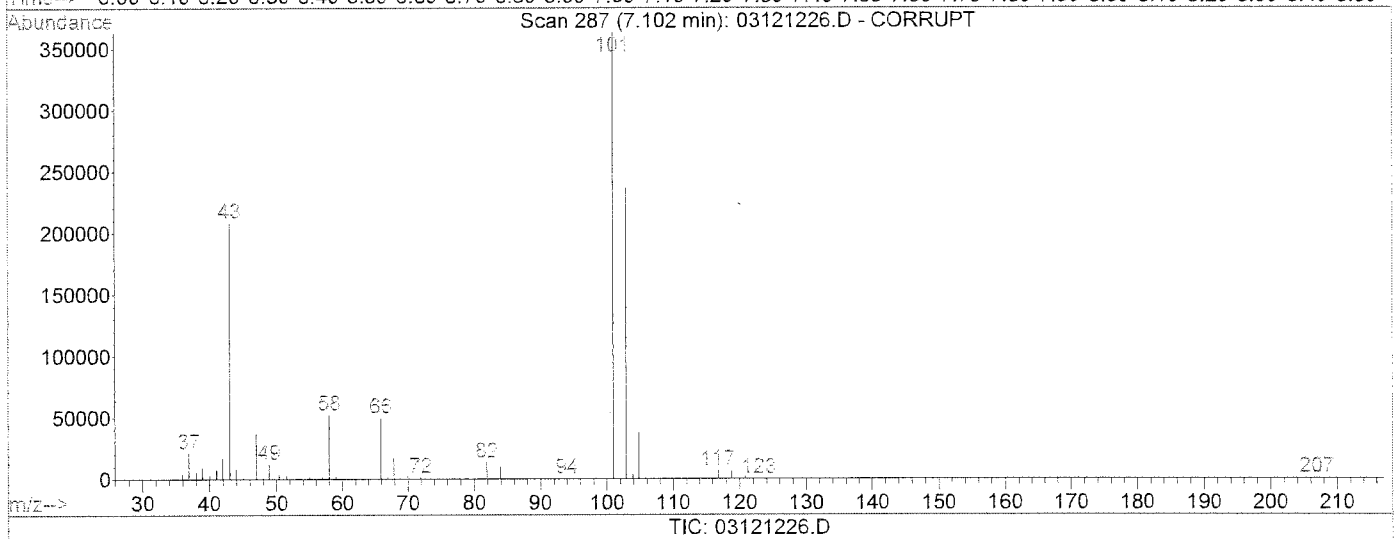


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 172.90ug/L

response 3518456

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.08
0.00	0.00	0.00
0.00	0.00	0.00

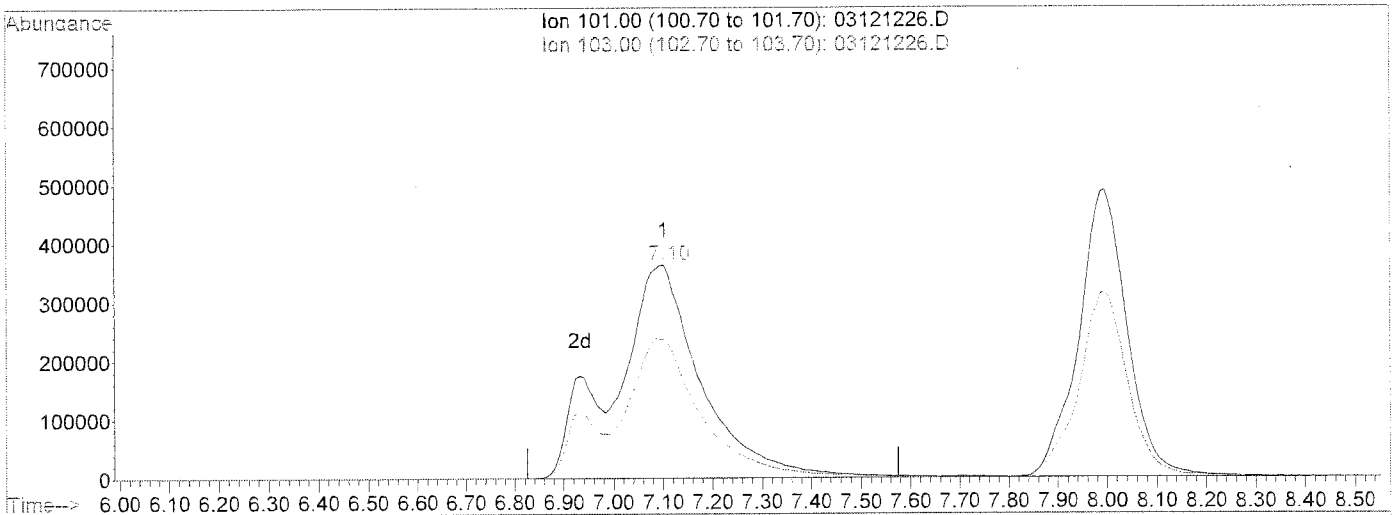
3/14/12

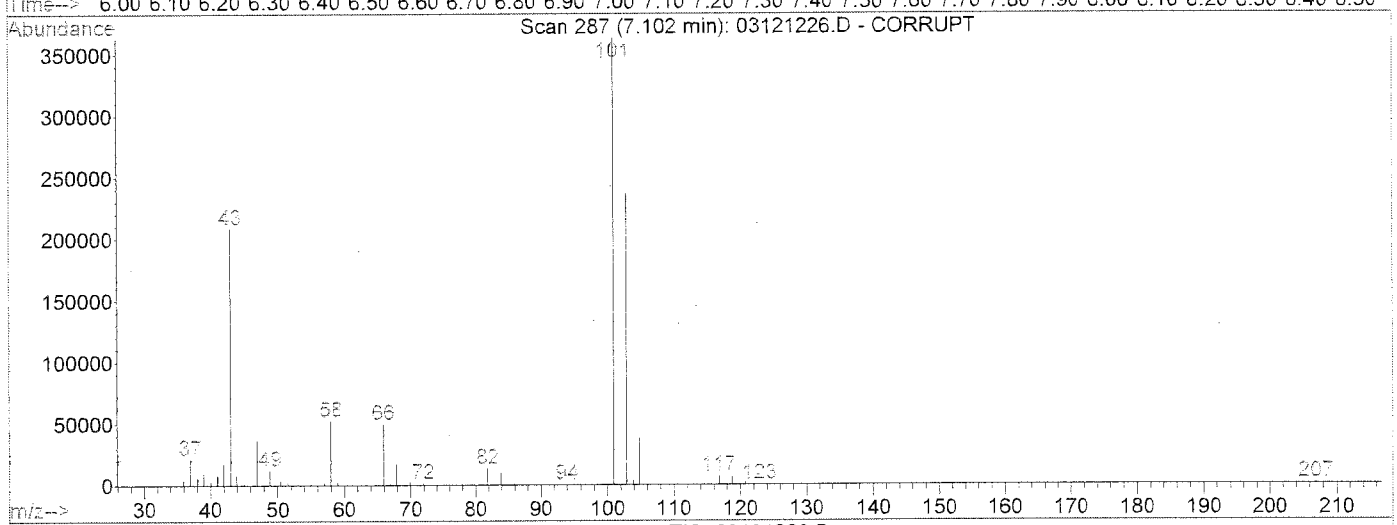
03121226.D 022812.M Tue Mar 13 09:23:29 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 217.76ug/L m

response 4431358

Ion	Exp%	Act%
101.00	100	100
103.00	61.60	65.21
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121226.D 022812.M Tue Mar 13 09:23:37 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	96595	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	553774	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	904577	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	760529	25.00 ug/L	0.03
65) 1,4-Dichlorobenzene-d4	19.59	152	338639	25.00 ug/L	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311262	25.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.76%	
50) Toluene-d8 (surr)	14.19	98	1007514	24.69 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.76%	
64) 4-Bromofluorobenzene (surr	17.83	95	363358	22.82 ug/L	0.03
Spiked Amount 25.000			Recovery	= 91.28%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	124917	1359.21 ug/L #	43
3) tert-Butanol (TBA)	7.69	59	801164	842.34 ug/L	99
5) Dichlorodifluoromethane	4.88	85	4066542	168.04 ug/L	98
6) Chloromethane	5.15	50	3761172	142.55 ug/L	99
7) Vinyl Chloride	5.51	62	4112386	195.68 ug/L	100
8) 1,3-Butadiene	5.58	54	2566419	193.00 ug/L	92
9) Bromomethane	6.04	94	3080152	191.66 ug/L	99
10) Chloroethane	6.20	64	2661085	203.68 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.10	101	4431358m	217.76 ug/L	
13) Acetone	7.10	43	954014	218.90 ug/L	97
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	4876597	203.09 ug/L	97
16) 1,1-Dichloroethene	7.73	96	3052109	201.45 ug/L	95
17) Methylene Chloride	7.86	84	3361167	177.31 ug/L	98
18) Freon 113	7.99	101	3315720	206.40 ug/L	100
19) Carbon Disulfide	8.31	76	8694500	216.57 ug/L #	89
20) trans-1,2-Dichloroethene	8.73	96	3283795	184.62 ug/L	96
21) MTBE	8.86	73	5463773	189.01 ug/L	99
22) 1,1-Dichloroethane	9.05	63	5526084	169.97 ug/L	98
23) Vinyl Acetate	9.19	43	4583088	172.71 ug/L	100
24) n-Hexane	9.55	86	604517	199.32 ug/L	95
25) 2-Butanone (MEK)	9.59	72	203308	226.63 ug/L #	44
26) Diisopropylether (DIPE)	9.60	45	10600518	175.40 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	3158561	184.19 ug/L	96
28) Bromochloromethane	9.99	128	1292731	183.65 ug/L	92
29) Chloroform	10.04	83	4936568	159.65 ug/L	98
30) 2,2-Dichloropropane	10.15	77	2814169	173.79 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	7605392	192.21 ug/L	99
33) Tetrahydrofuran	10.47	72	160376	205.21 ug/L	93
34) 1,2-Dichloroethane	10.89	62	3292179	163.50 ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	4122428	168.62 ug/L	99
36) (TAME) tert-Amyl methyl et	11.71	73	5447757	204.22 ug/L	97
38) 1,1-Dichloropropene	11.25	75	3700844	167.17 ug/L	97
39) Carbon Tetrachloride	11.48	117	3674695	162.39 ug/L	99
40) Benzene	11.54	78	8711676	150.38 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 022812.M Tue Mar 13 09:24:03 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Quant Method : C:\HPCHEM\1...\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

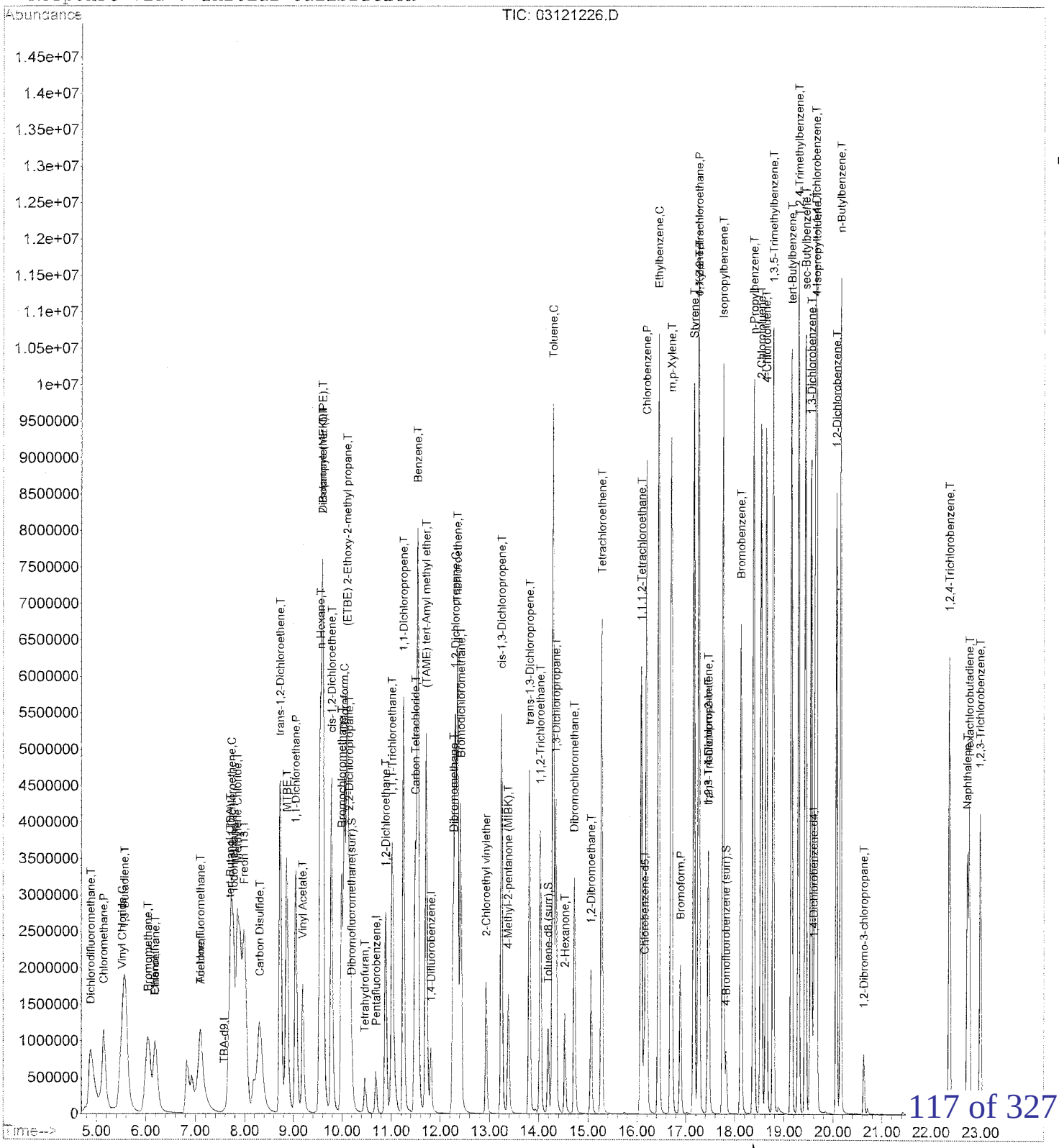
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	1427822	167.19 ug/L		98
42)	1,2-Dichloropropane	12.31	63	2515722	158.99 ug/L		96
43)	Trichloroethene	12.35	95	2719453	157.45 ug/L		96
44)	Bromodichloromethane	12.42	83	3577590	155.75 ug/L		99
45)	2-Chloroethyl vinylether	12.93	63	997446	199.38 ug/L		98
46)	cis-1,3-Dichloropropene	13.25	75	3902432	178.15 ug/L		96
47)	4-Methyl-2-pentanone (MIBK	13.38	43	1800220	192.39 ug/L		97
48)	trans-1,3-Dichloropropene	13.81	75	3305503	183.65 ug/L		95
49)	1,1,2-Trichloroethane	14.03	97	1754819	168.83 ug/L		95
51)	Toluene	14.29	92	5813404	161.56 ug/L		93
53)	1,3-Dichloropropane	14.35	76	2978597	163.56 ug/L		99
54)	2-Hexanone	14.53	43	1441929	224.09 ug/L		95
55)	Dibromochloromethane	14.72	129	2318623	174.99 ug/L		99
56)	1,2-Dibromoethane	15.06	107	1897875	176.25 ug/L		98
57)	Tetrachloroethene	15.28	164	2114351	164.07 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.09	131	2401120	169.84 ug/L		99
59)	Chlorobenzene	16.19	112	6441117	159.84 ug/L		97
60)	Ethylbenzene	16.45	91	10122845	152.69 ug/L		92
61)	m,p-Xylene	16.71	106	4487119	171.55 ug/L		89
62)	Styrene	17.16	104	6784462	170.60 ug/L		98
63)	o-Xylene	17.27	106	4197562	163.75 ug/L	#	86
66)	Bromoform	16.89	173	1346828	195.87 ug/L		99
67)	1,1,2,2-Tetrachloroethane	17.26	83	1503458	158.37 ug/L		99
68)	1,2,3-Trichloropropane	17.46	110	502774	185.66 ug/L		98
69)	trans-1,4-Dichloro-2-buten	17.47	53	640047	201.83 ug/L		94
70)	Isopropylbenzene	17.76	105	9265717	175.33 ug/L		93
71)	Bromobenzene	18.12	156	2486757	178.01 ug/L		98
72)	n-Propylbenzene	18.38	91	10978924	162.53 ug/L	#	90
73)	2-Chlorotoluene	18.52	91	7185794	163.67 ug/L		92
74)	4-Chlorotoluene	18.62	91	7248392	162.32 ug/L		92
75)	1,3,5-Trimethylbenzene	18.77	105	8024457	163.85 ug/L		91
76)	tert-Butylbenzene	19.15	119	6685641	178.93 ug/L		94
77)	1,2,4-Trimethylbenzene	19.30	105	8304938	164.62 ug/L		92
78)	sec-Butylbenzene	19.44	105	9628259	160.59 ug/L		92
79)	1,3-Dichlorobenzene	19.55	146	4502973	170.32 ug/L		98
80)	1,4-Dichlorobenzene	19.63	146	4440770	167.68 ug/L		100
81)	4-Isopropyltoluene	19.66	119	7915872	162.22 ug/L		96
82)	1,2-Dichlorobenzene	20.06	146	3896336	167.58 ug/L		98
83)	n-Butylbenzene	20.16	91	7335423	157.44 ug/L		94
84)	1,2-Dibromo-3-chloropropan	20.63	75	244755	160.54 ug/L		97
85)	1,2,4-Trichlorobenzene	22.36	180	2808218	157.73 ug/L		99
86)	Naphthalene	22.72	128	3714707	162.42 ug/L		100
87)	Hexachlorobutadiene	22.76	225	1231399	147.86 ug/L		98
88)	1,2,3-Trichlorobenzene	23.00	180	1980703	140.11 ug/L		99

(#) = qualifier out of range (m) = manual integration
03121226.D 022812.M Tue Mar 13 09:24:03 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 9:23 2012 Quant Results File: 022812.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\022812.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Wed Feb 29 07:49:12 2012
Response via : Initial Calibration

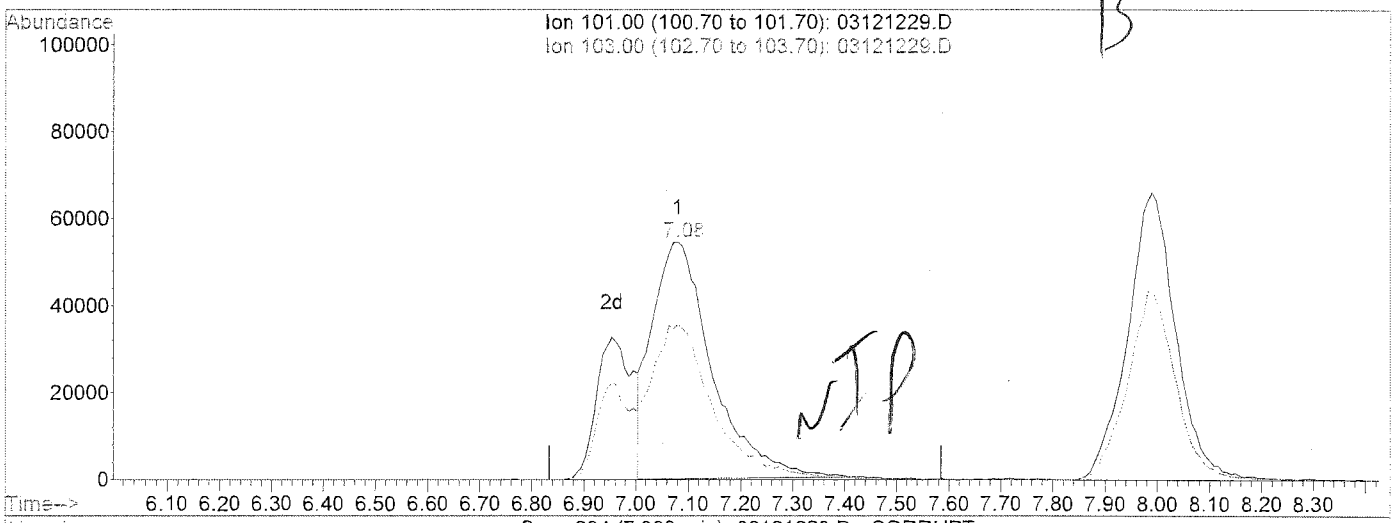


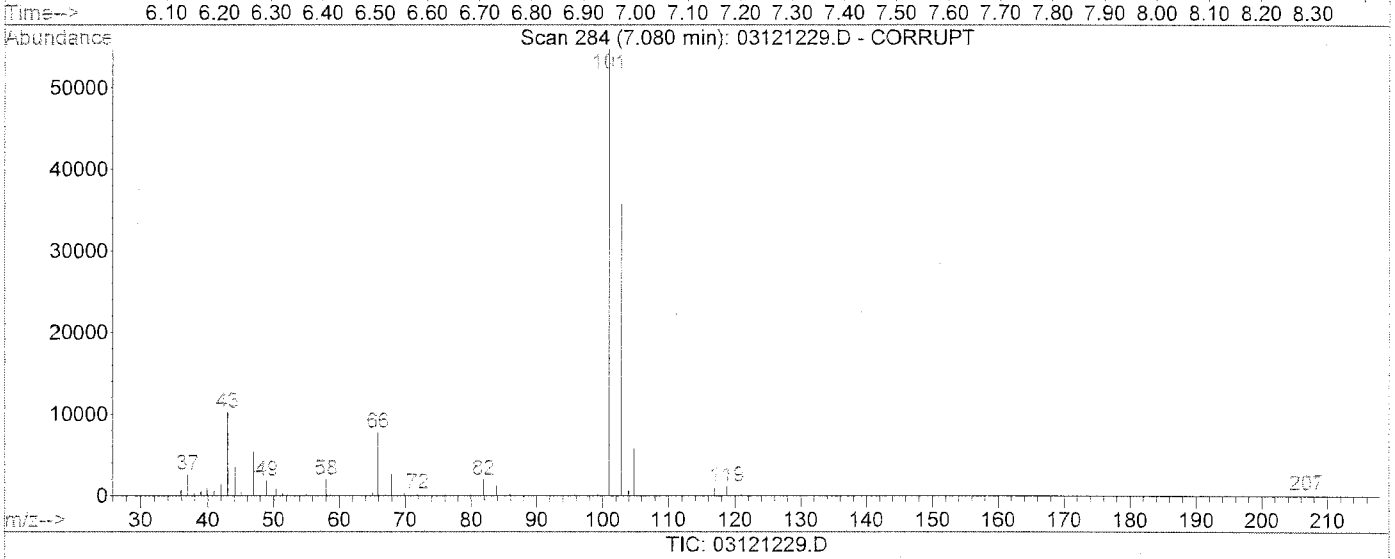
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





TIC: 03121229.D

(12) Trichlorofluoromethane (T)

3/14/12

7.08min 22.22ug/L

response 432525

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.58
0.00	0.00	0.00
0.00	0.00	0.00

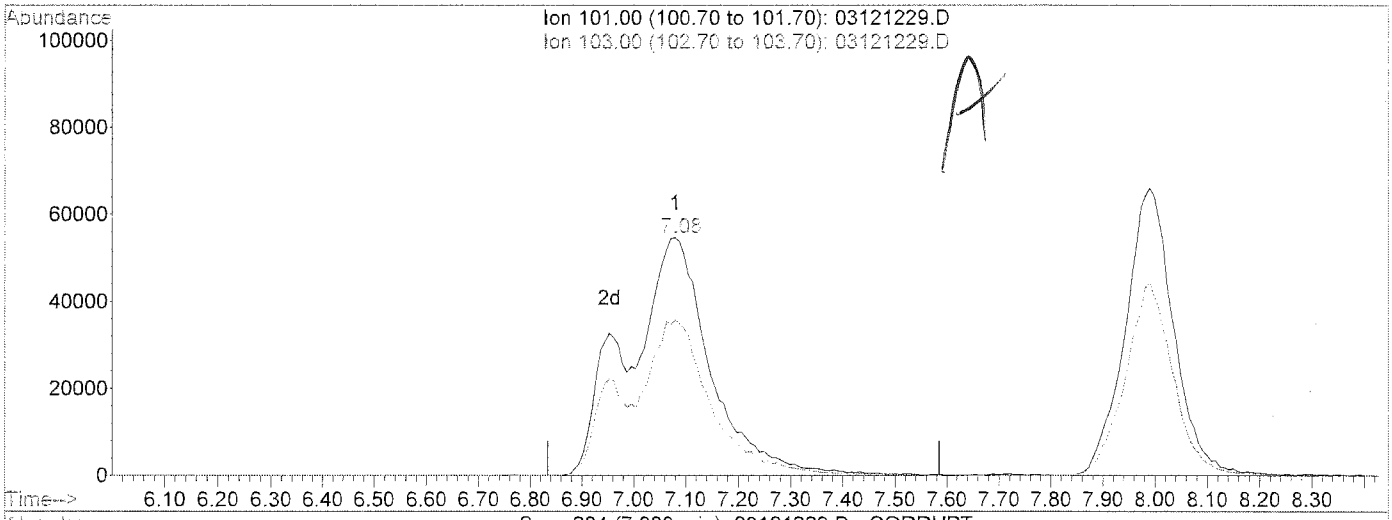
MH 3/14/12

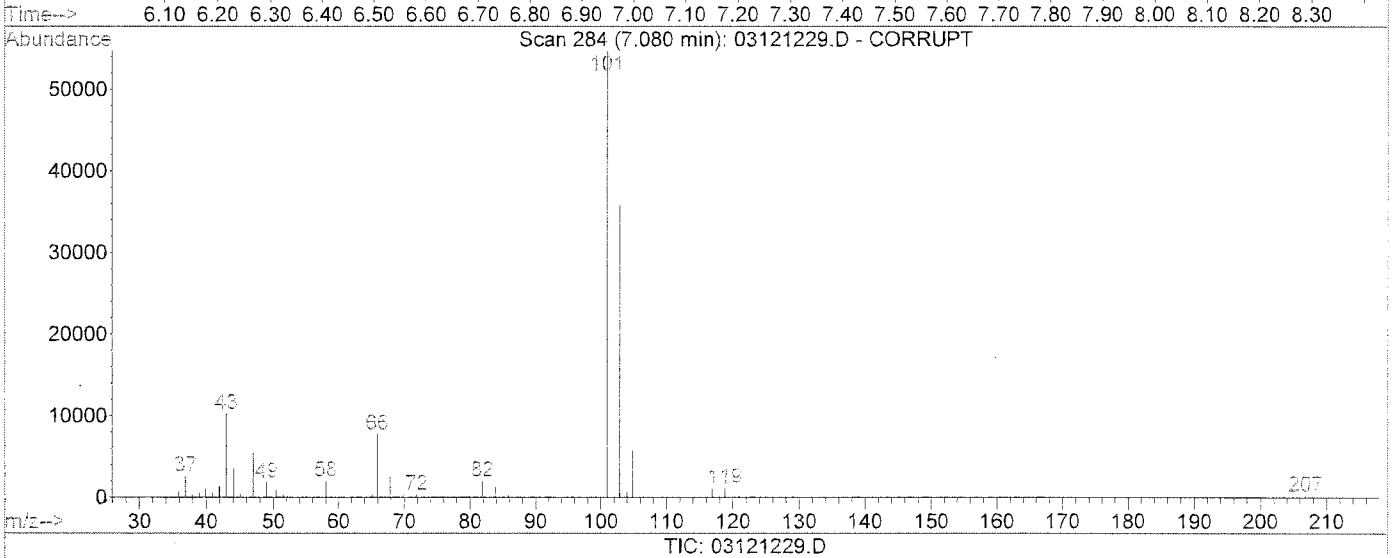
03121229.D 031212.M Wed Mar 14 10:31:04 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121229.D

(12) Trichlorofluoromethane (T)

7.08min 30.94ug/L m

response 602255

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.41
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121229.D 031212.M Wed Mar 14 10:31:11 2012

8260 CCV/ICV Custom Report

Data File Name	03121229.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031212\
Operator	ms
Date Acquired	3/12/2012 11:22
Acq. Method File	8260C
Sample Name	25 PPB SS/ICV
Instrument Name	GCMS9

✓ 3/14/12

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	93737	80167	40083.5	160334	TRUE
Pentafluorobenzene	520986	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	838665	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	715040	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	330279	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	214.56	250	86%	36%	150%	TRUE ✓
tert-Butanol (TBA)	126.92	125	102%	70%	134%	TRUE
Dichlorodifluoromethane	28.72	25	115%	60%	140%	TRUE
Chloromethane	28.67	25	115%	48%	144%	TRUE
Vinyl Chloride	27.76	25	111%	80%	120%	TRUE
1,3-Butadiene	38.26	25	153%	50%	141%	FALSE NI 3/14
Bromomethane	25.92	25	104%	40%	144%	TRUE
Chloroethane	26.47	25	106%	60%	132%	TRUE
Acrolein	0.00	25	0%	80%	120%	FALSE NT
Trichlorofluoromethane	30.94	25	124%	68%	136%	TRUE
Acetone	18.92	25	76%	12%	150%	TRUE
Acrylonitrile	0.00	25	0%	80%	120%	FALSE NT
Iodomethane	28.57	25	114%	40%	150%	TRUE
1,1-Dichloroethene	26.30	25	105%	80%	120%	TRUE
Methylene Chloride	23.95	25	96%	68%	128%	TRUE
Freon 113	25.13	25	101%	76%	124%	TRUE
Carbon Disulfide	26.72	25	107%	64%	136%	TRUE
trans-1,2-Dichloroethene	27.41	25	110%	76%	120%	TRUE
MTBE	27.09	25	108%	64%	140%	TRUE
1,1-Dichloroethane	25.50	25	102%	72%	124%	TRUE
Vinyl Acetate	28.06	25	112%	48%	150%	TRUE
n-Hexane	23.02	25	92%	56%	150%	TRUE
2-Butanone (MEK)	22.36	25	89%	44%	150%	TRUE
Diisopropylether (DIPE)	26.57	25	106%	72%	132%	TRUE
cis-1,2-Dichloroethene	28.01	25	112%	72%	128%	TRUE
Bromochloromethane	27.50	25	110%	72%	132%	TRUE
Chloroform	24.71	25	99%	80%	120%	TRUE
2,2-Dichloropropane	19.25	25	77%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	26.16	25	105%	72%	140%	TRUE
Dibromofluoromethane(surr)	24.31	25	97%	80%	120%	TRUE
Tetrahydrofuran	27.53	25	110%	64%	139%	TRUE
1,2-Dichloroethane	25.79	25	103%	68%	136%	TRUE

 M 3/14/12

1,1,1-Trichloroethane	25.14	25	101%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	29.14	25	117%	68%	140%	TRUE
1,1-Dichloropropene	27.63	25	111%	76%	128%	TRUE
Carbon Tetrachloride	25.93	25	104%	72%	136%	TRUE
Benzene	27.70	25	111%	76%	120%	TRUE
Dibromomethane	26.57	25	106%	72%	132%	TRUE
1,2-Dichloropropane	26.89	25	108%	80%	120%	TRUE
Trichloroethene	26.66	25	107%	80%	120%	TRUE
Bromodichloromethane	25.84	25	103%	76%	128%	TRUE
2-Chloroethyl vinylether	28.94	25	116%	10%	150%	TRUE
cis-1,3-Dichloropropene	28.75	25	115%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	29.11	25	116%	60%	144%	TRUE
trans-1,3-Dichloropropene	25.45	25	102%	68%	140%	TRUE
1,1,2-Trichloroethane	26.61	25	106%	72%	132%	TRUE
Toluene-d8 (surr)	25.55	25	102%	80%	120%	TRUE
Toluene	28.36	25	113%	80%	120%	TRUE
1,3-Dichloropropane	26.40	25	106%	80%	124%	TRUE
2-Hexanone	24.87	25	99%	52%	150%	TRUE
Dibromochloromethane	26.41	25	106%	80%	128%	TRUE
1,2-Dibromoethane	26.62	25	106%	80%	128%	TRUE
Tetrachloroethene	25.71	25	103%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	26.34	25	105%	76%	124%	TRUE
Chlorobenzene	25.61	25	102%	80%	120%	TRUE
Ethylbenzene	28.31	25	113%	80%	120%	TRUE
m,p-Xylene	28.08	25	112%	80%	120%	TRUE
Styrene	28.43	25	114%	84%	124%	TRUE
o-Xylene	27.70	25	111%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	24.19	25	97%	80%	120%	TRUE
Bromoform	27.49	25	110%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	27.05	25	108%	68%	132%	TRUE
1,2,3-Trichloropropane	27.90	25	112%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	21.89	25	88%	48%	138%	TRUE
Isopropylbenzene	31.83	25	127%	76%	132%	TRUE
Bromobenzene	28.08	25	112%	76%	128%	TRUE
n-Propylbenzene	29.52	25	118%	76%	132%	TRUE
2-Chlorotoluene	26.77	25	107%	80%	124%	TRUE
4-Chlorotoluene	27.17	25	109%	80%	124%	TRUE
1,3,5-Trimethylbenzene	28.01	25	112%	80%	128%	TRUE
tert-Butylbenzene	29.98	25	120%	76%	132%	TRUE
1,2,4-Trimethylbenzene	28.07	25	112%	80%	128%	TRUE
sec-Butylbenzene	28.03	25	112%	80%	128%	TRUE
1,3-Dichlorobenzene	27.20	25	109%	80%	124%	TRUE
1,4-Dichlorobenzene	26.44	25	106%	76%	120%	TRUE
4-Isopropyltoluene	27.04	25	108%	80%	128%	TRUE
1,2-Dichlorobenzene	28.20	25	113%	80%	124%	TRUE
n-Butylbenzene	27.77	25	111%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	28.95	25	116%	64%	128%	TRUE
1,2,4-Trichlorobenzene	31.91	25	128%	76%	128%	TRUE
Naphthalene	32.80	25	131%	68%	136%	TRUE
Hexachlorobutadiene	28.77	25	115%	76%	132%	TRUE
1,2,3-Trichlorobenzene	32.12	25	128%	72%	128%	~~FALSE~~ TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93737	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	520986	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	838665	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	715040	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	330279	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	305270	24.31 ug/L	0.00
Spiked Amount 25.000			Recovery = 97.24%		
50) Toluene-d8 (surr)	14.19	98	959447	25.55 ug/L	0.00
Spiked Amount 25.000			Recovery = 102.20%		
64) 4-Bromofluorobenzene (surr	17.82	95	354185	24.19 ug/L	0.00
Spiked Amount 25.000			Recovery = 96.76%		

Target Compounds					Qvalue
2) Ethanol	6.18	45	12575	214.56 ug/L	96
3) tert-Butanol (TBA)	7.69	59	103807	126.92 ug/L	99
5) Dichlorodifluoromethane	4.90	85	689221	28.72 ug/L	98
6) Chloromethane	5.12	50	790060	28.67 ug/L	99
7) Vinyl Chloride	5.47	62	645129	27.76 ug/L	99
8) 1,3-Butadiene	5.56	54	525961	38.26 ug/L	97
9) Bromomethane	6.00	94	436762	25.92 ug/L	99
10) Chloroethane	6.19	64	361685	26.47 ug/L	98
12) Trichlorofluoromethane	7.08	101	602255m	30.94 ug/L	
13) Acetone	7.10	43	80262	18.92 ug/L	96
15) Iodomethane	7.77	142	688065	28.57 ug/L	99
16) 1,1-Dichloroethene	7.71	96	399122	26.30 ug/L	98
17) Methylene Chloride	7.86	84	444043	23.95 ug/L	97
18) Freon 113	7.99	101	424178	25.13 ug/L	99
19) Carbon Disulfide	8.28	76	1111965	26.72 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	475236	27.41 ug/L	98
21) MTBE	8.87	73	707480	27.09 ug/L	100
22) 1,1-Dichloroethane	9.05	63	797191	25.50 ug/L	99
23) Vinyl Acetate	9.20	43	624961	28.06 ug/L	100
24) n-Hexane	9.55	86	68460	23.02 ug/L	98
25) 2-Butanone (MEK)	9.58	72	21359	22.36 ug/L #	87
26) Diisopropylether (DIPE)	9.59	45	1534846	26.57 ug/L	93
27) cis-1,2-Dichloroethene	9.78	96	441081	28.01 ug/L	98
28) Bromochloromethane	10.00	128	175845	27.50 ug/L	95
29) Chloroform	10.05	83	679651	24.71 ug/L	99
30) 2,2-Dichloropropane	10.16	77	314435	19.25 ug/L	95
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	937548	26.16 ug/L	99
33) Tetrahydrofuran	10.47	72	18303	27.53 ug/L	94
34) 1,2-Dichloroethane	10.89	62	447461	25.79 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	542430	25.14 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	715290	29.14 ug/L	97
38) 1,1-Dichloropropene	11.25	75	502491	27.63 ug/L	99
39) Carbon Tetrachloride	11.49	117	487815	25.93 ug/L	99
40) Benzene	11.54	78	1336314	27.70 ug/L	97
41) Dibromomethane	12.26	93	186040	26.57 ug/L	98
42) 1,2-Dichloropropane	12.30	63	366812	26.89 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

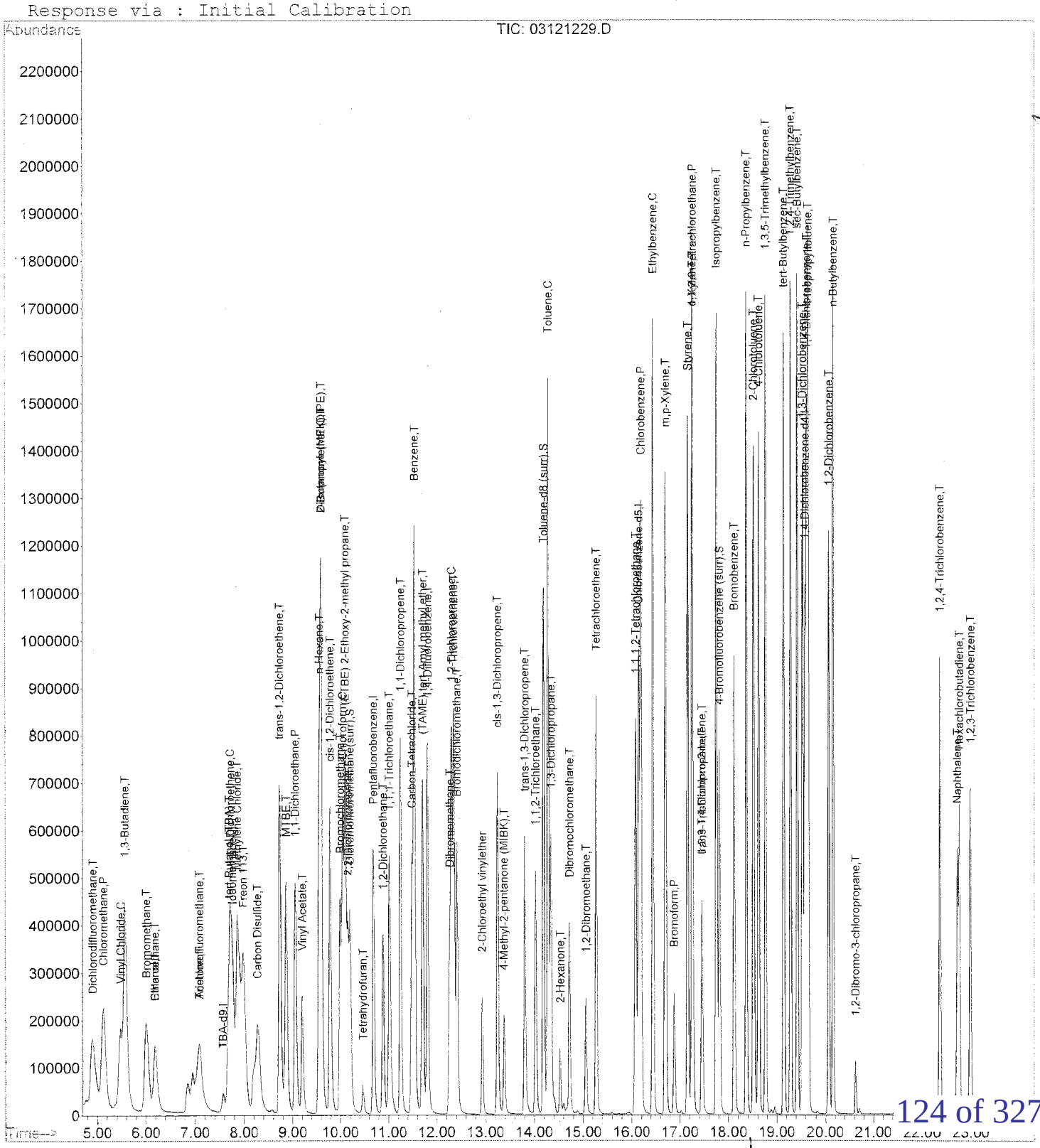
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.36	95	377677	26.66 ug/L	99
44)	Bromodichloromethane	12.41	83	472986	25.84 ug/L	100
45)	2-Chloroethyl vinylether	12.93	63	127173	28.94 ug/L	98
46)	cis-1,3-Dichloropropene	13.24	75	505884	28.75 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	220162	29.11 ug/L	98
48)	trans-1,3-Dichloropropene	13.80	75	390856	25.45 ug/L	99
49)	1,1,2-Trichloroethane	14.02	97	223328	26.61 ug/L	99
51)	Toluene	14.29	92	846411	28.36 ug/L	99
53)	1,3-Dichloropropane	14.34	76	398145	26.40 ug/L	100
54)	2-Hexanone	14.53	43	142245	24.87 ug/L	97
55)	Dibromochloromethane	14.72	129	286092	26.41 ug/L	98
56)	1,2-Dibromoethane	15.06	107	231012	26.62 ug/L	98
57)	Tetrachloroethene	15.27	164	270285	25.71 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	310802	26.34 ug/L	98
59)	Chlorobenzene	16.19	112	899826	25.61 ug/L	99
60)	Ethylbenzene	16.44	91	1563720	28.31 ug/L	100
61)	m,p-Xylene	16.70	106	611774	28.08 ug/L	97
62)	Styrene	17.16	104	949142	28.43 ug/L	98
63)	o-Xylene	17.26	106	598144	27.70 ug/L	98
66)	Bromoform	16.88	173	160937	27.49 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	235898	27.05 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	66215	27.90 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.46	53	65039	21.89 ug/L	95
70)	Isopropylbenzene	17.76	105	1510478	31.83 ug/L	100
71)	Bromobenzene	18.12	156	340410	28.08 ug/L	98
72)	n-Propylbenzene	18.36	91	1795047	29.52 ug/L	99
73)	2-Chlorotoluene	18.52	91	1065909	26.77 ug/L	98
74)	4-Chlorotoluene	18.62	91	1086923	27.17 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	1235325	28.01 ug/L	100
76)	tert-Butylbenzene	19.15	119	1003381	29.98 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1257259	28.07 ug/L	99
78)	sec-Butylbenzene	19.43	105	1537594	28.03 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	654194	27.20 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	635328	26.44 ug/L	100
81)	4-Isopropyltoluene	19.65	119	1208517	27.04 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	567253	28.20 ug/L	98
83)	n-Butylbenzene	20.15	91	1163147	27.77 ug/L	100
84)	1,2-Dibromo-3-chloropropan	20.62	75	33263	28.95 ug/L	92
85)	1,2,4-Trichlorobenzene	22.36	180	421050	31.91 ug/L	98
86)	Naphthalene	22.71	128	580147	32.80 ug/L	99
87)	Hexachlorobutadiene	22.75	225	193530	28.77 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	327917	32.12 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121229.D 031212.M Wed Mar 14 10:31:46 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121229.D Vial: 17
Acq On : 12 Mar 2012 11:22 pm Operator: ms
Sample : 25 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: 031212.RES

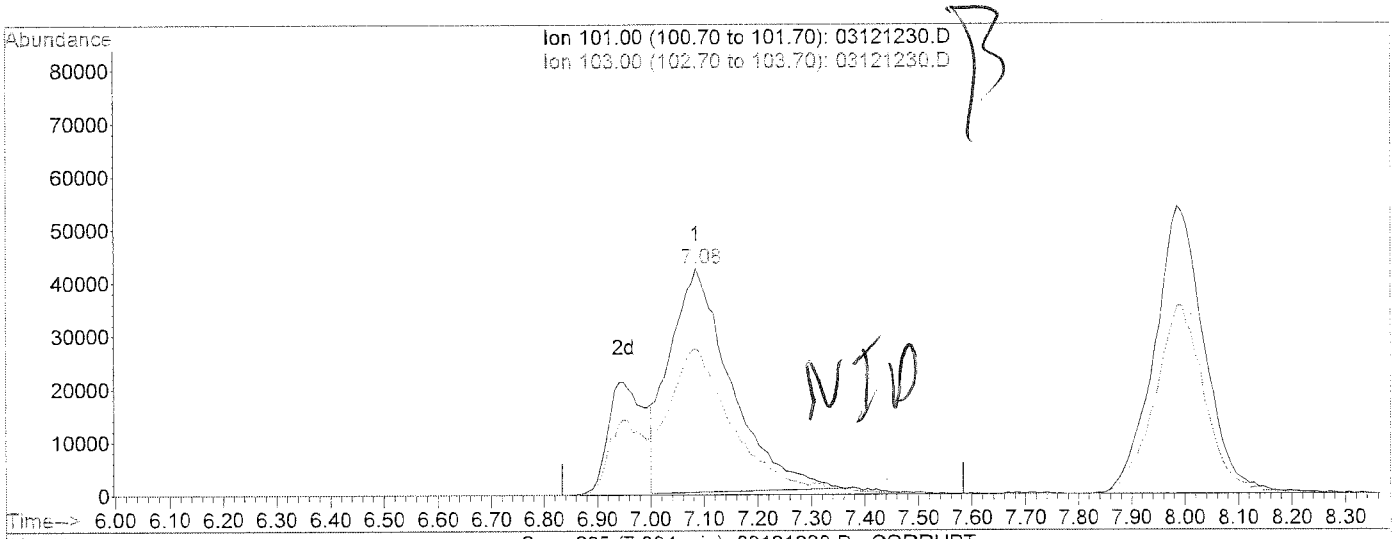
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

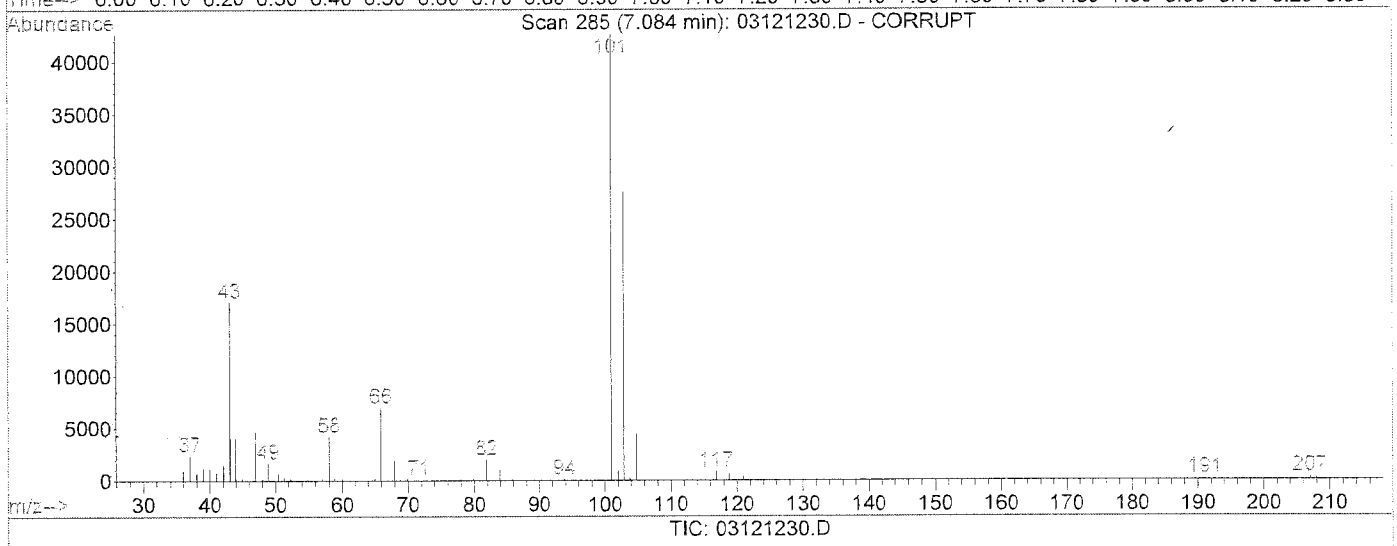


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:31 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121230.D

(12) Trichlorofluoromethane (T)

7.08min 17.26ug/L

response 337730

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.24
0.00	0.00	0.00
0.00	0.00	0.00

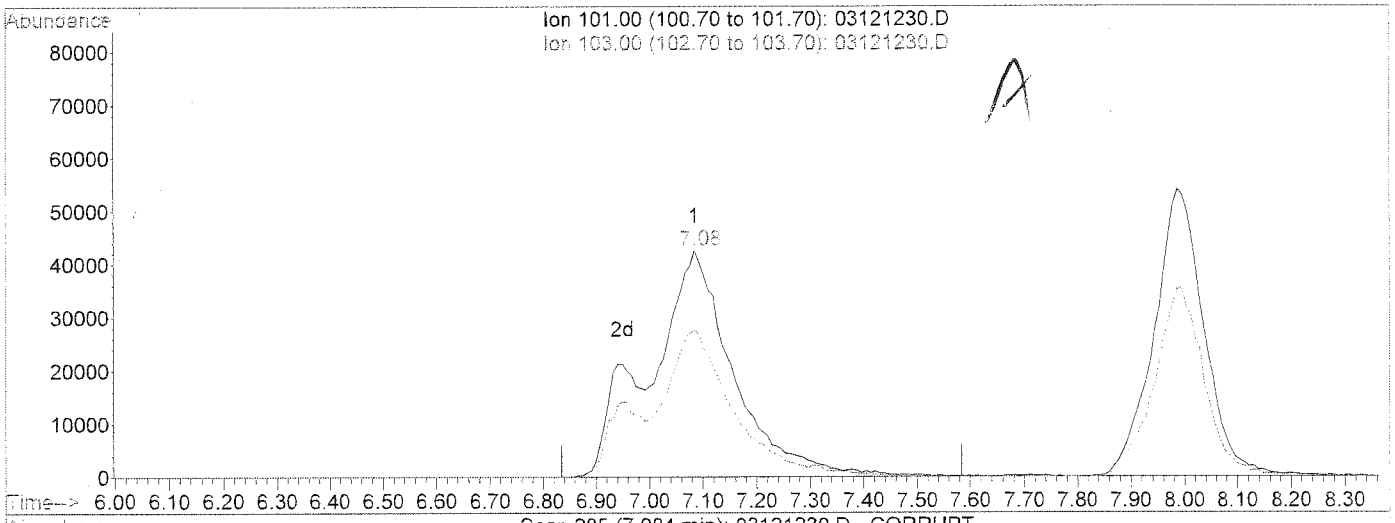
✓ 3/14/12

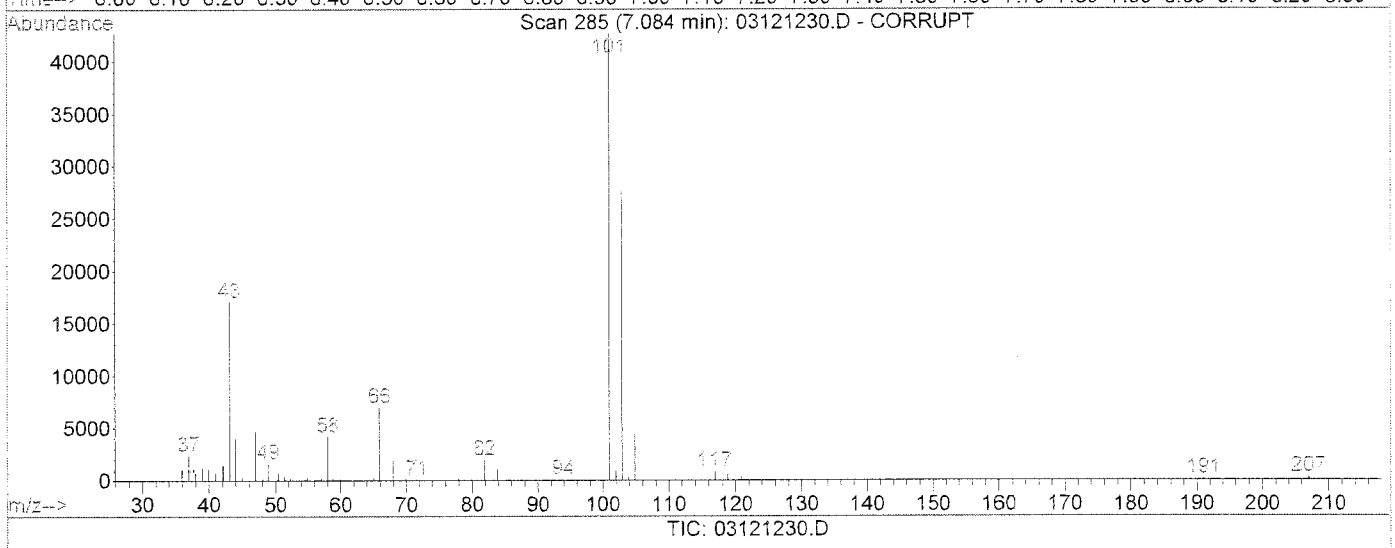
03121230.D 031212.M Wed Mar 14 10:31:57 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

✓3/14/12

7.08min 23.72ug/L m

response 463921

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.73
0.00	0.00	0.00
0.00	0.00	0.00

03121230.D 031212.M Wed Mar 14 10:32:04 2012

8260 CCV/ICV Custom Report

Data File Name	03121230.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031212\
Operator	ms
Date Acquired	3/12/2012 11:54
Acq. Method File	8260C
Sample Name	20 PPB SS/ICV
Instrument Name	GCMS9

✓ 3/14/12

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	95571	80167	40083.5	160334	TRUE
Pentafluorobenzene	523579	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	844938	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	717836	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	333924	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	290.35	200	145.18	36	150	TRUE
tert-Butanol (TBA)	125.13	100	125.13	70	134	TRUE
Dichlorodifluoromethane	23.04	20	115.18	60	140	TRUE
Chloromethane	23.38	20	116.90	0	204	TRUE
Vinyl Chloride	21.96	20	109.79	4	196	TRUE
1,3-Butadiene	30.31	20	151.53	50	141	FALSE NT
Bromomethane	21.08	20	105.42	14	186	TRUE
Chloroethane	21.26	20	106.30	38	162	TRUE
Acrolein	0.00	20	0.00	80	120	FALSE NT
Trichlorofluoromethane	23.72	20	118.58	48	152	TRUE
Acetone	22.35	20	111.73	12	150	TRUE
Acrylonitrile	0.00	20	0.00	80	120	FALSE NT
Iodomethane	22.51	20	112.56	40	150	TRUE
1,1-Dichloroethene	21.48	20	107.39	50	150	TRUE
Methylene Chloride	19.29	20	96.46	60	140	TRUE
Freon 113	20.59	20	102.95	76	124	TRUE
Carbon Disulfide	20.17	20	100.85	64	136	TRUE
trans-1,2-Dichloroethene	21.56	20	107.80	70	130	TRUE
MTBE	22.57	20	112.87	64	140	TRUE
1,1-Dichloroethane	20.19	20	100.95	72	128	TRUE
Vinyl Acetate	23.81	20	119.04	48	150	TRUE
n-Hexane	20.32	20	101.62	56	150	TRUE
2-Butanone (MEK)	23.25	20	116.24	44	150	TRUE
Diisopropylether (DIPE)	21.37	20	106.86	72	132	TRUE
cis-1,2-Dichloroethene	23.05	20	115.24	72	128	TRUE
Bromochloromethane	22.42	20	112.09	72	132	TRUE
Chloroform	19.90	20	99.50	68	132	TRUE
2,2-Dichloropropane	17.90	20	89.48	64	140	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	21.33	20	106.64	72	140	TRUE
Dibromofluoromethane(surr)	24.40	25	97.59	80	120	TRUE
Tetrahydrofuran	23.30	20	116.49	64	139	TRUE
1,2-Dichloroethane	20.81	20	104.07	68	132	TRUE

1,1,1-Trichloroethane	20.21	20	101.07	75	125	TRUE
(TAME) tert-Amyl methyl ether	22.82	20	114.11	68	140	TRUE
1,1-Dichloropropene	22.13	20	110.67	76	128	TRUE
Carbon Tetrachloride	20.41	20	102.05	73	127	TRUE
Benzene	22.12	20	110.60	64	136	TRUE
Dibromomethane	22.12	20	110.62	72	132	TRUE
1,2-Dichloropropane	21.89	20	109.43	34	166	TRUE
Trichloroethene	21.09	20	105.45	66	133	TRUE
Bromodichloromethane	20.70	20	103.52	66	134	TRUE
2-Chloroethyl vinylether	23.88	20	119.41	0	224	TRUE
cis-1,3-Dichloropropene	23.75	20	118.74	24	176	TRUE
4-Methyl-2-pentanone (MIBK)	24.00	20	120.00	60	144	TRUE
trans-1,3-Dichloropropene	21.65	20	108.25	50	150	TRUE
1,1,2-Trichloroethane	22.41	20	112.04	71	129	TRUE
Toluene-d8 (surr)	25.56	25	102.25	80	120	TRUE
Toluene	22.53	20	112.63	74	126	TRUE
1,3-Dichloropropane	21.64	20	108.22	80	124	TRUE
2-Hexanone	25.91	20	129.57	52	150	TRUE
Dibromochloromethane	21.34	20	106.68	68	132	TRUE
1,2-Dibromoethane	21.94	20	109.72	80	128	TRUE
Tetrachloroethene	21.23	20	106.17	74	126	TRUE
1,1,1,2-Tetrachloroethane	21.20	20	105.98	76	124	TRUE
Chlorobenzene	20.77	20	103.87	66	134	TRUE
Ethylbenzene	22.58	20	112.92	59	141	TRUE
m,p-Xylene	22.45	20	112.26	80	120	TRUE
Styrene	22.86	20	114.29	84	124	TRUE
o-Xylene	22.61	20	113.07	72	128	TRUE
4-Bromofluorobenzene (surr)	24.36	25	97.44	80	120	TRUE
Bromoform	22.59	20	112.94	71	129	TRUE
1,1,2,2-Tetrachloroethane	21.96	20	109.78	61	140	TRUE
1,2,3-Trichloropropane	23.15	20	115.77	76	128	TRUE
trans-1,4-Dichloro-2-butene	18.83	20	94.17	48	138	TRUE
Isopropylbenzene	25.64	20	128.19	76	132	TRUE
Bromobenzene	22.97	20	114.86	76	128	TRUE
n-Propylbenzene	23.86	20	119.31	76	132	TRUE
2-Chlorotoluene	21.36	20	106.82	80	124	TRUE
4-Chlorotoluene	22.07	20	110.36	80	124	TRUE
1,3,5-Trimethylbenzene	22.35	20	111.74	80	128	TRUE
tert-Butylbenzene	23.77	20	118.84	76	132	TRUE
1,2,4-Trimethylbenzene	22.56	20	112.81	80	128	TRUE
sec-Butylbenzene	22.94	20	114.71	80	128	TRUE
1,3-Dichlorobenzene	22.07	20	110.34	73	127	TRUE
1,4-Dichlorobenzene	21.32	20	106.62	63	137	TRUE
4-Isopropyltoluene	21.71	20	108.53	80	128	TRUE
1,2-Dichlorobenzene	22.87	20	114.37	63	137	TRUE
n-Butylbenzene	22.99	20	114.96	76	132	TRUE
1,2-Dibromo-3-chloropropane	25.11	20	125.54	64	128	TRUE
1,2,4-Trichlorobenzene	26.90	20	134.52	76	128	FALSE
Naphthalene	27.47	20	137.35	68	136	FALSE
Hexachlorobutadiene	24.13	20	120.65	76	132	TRUE
1,2,3-Trichlorobenzene	27.42	20	137.09	72	128	FALSE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓ 3/14/12 e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95571	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	523579	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	844938	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	717836	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	333924	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	307839	24.40 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.60%	
50) Toluene-d8 (surr)	14.19	98	966915	25.56 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.24%	
64) 4-Bromofluorobenzene (surr	17.82	95	358090	24.36 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.44%	
Target Compounds					Qvalue
2) Ethanol	6.17	45	17350	290.35 ug/L #	68
3) tert-Butanol (TBA)	7.67	59	104342	125.13 ug/L	97
5) Dichlorodifluoromethane	4.88	85	555659	23.04 ug/L	99
6) Chloromethane	5.10	50	647455	23.38 ug/L	98
7) Vinyl Chloride	5.47	62	512804	21.96 ug/L	100
8) 1,3-Butadiene	5.56	54	418735	30.31 ug/L	98
9) Bromomethane	6.00	94	356974	21.08 ug/L	99
10) Chloroethane	6.19	64	291909	21.26 ug/L	99
12) Trichlorofluoromethane	7.08	101	463921m	23.72 ug/L	
13) Acetone	7.10	43	95288	22.35 ug/L	100
15) Iodomethane	7.78	142	544869	22.51 ug/L	99
16) 1,1-Dichloroethene	7.72	96	327610	21.48 ug/L	97
17) Methylene Chloride	7.86	84	359514	19.29 ug/L	97
18) Freon 113	7.99	101	349238	20.59 ug/L	99
19) Carbon Disulfide	8.30	76	843700	20.17 ug/L	96
20) trans-1,2-Dichloroethene	8.74	96	375707	21.56 ug/L	99
21) MTBE	8.86	73	592575	22.57 ug/L	99
22) 1,1-Dichloroethane	9.06	63	634231	20.19 ug/L	100
23) Vinyl Acetate	9.20	43	532824	23.81 ug/L	100
24) n-Hexane	9.55	86	60757	20.32 ug/L	100
25) 2-Butanone (MEK)	9.59	72	22318	23.25 ug/L #	28
26) Diisopropylether (DIPE)	9.59	45	1240606	21.37 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	364754	23.05 ug/L	97
28) Bromochloromethane	9.99	128	144089	22.42 ug/L	95
29) Chloroform	10.05	83	549956	19.90 ug/L	99
30) 2,2-Dichloropropane	10.15	77	293835	17.90 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	768252	21.33 ug/L	100
33) Tetrahydrofuran	10.47	72	15569	23.30 ug/L	92
34) 1,2-Dichloroethane	10.89	62	362950	20.81 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	438379	20.21 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	563073	22.82 ug/L	99
38) 1,1-Dichloropropene	11.25	75	405547	22.13 ug/L	99
39) Carbon Tetrachloride	11.49	117	386829	20.41 ug/L	100
40) Benzene	11.54	78	1075167	22.12 ug/L	98
41) Dibromomethane	12.26	93	156047	22.12 ug/L	98
42) 1,2-Dichloropropane	12.30	63	300728	21.89 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121230.D 031212.M Wed Mar 14 10:32:40 2012

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

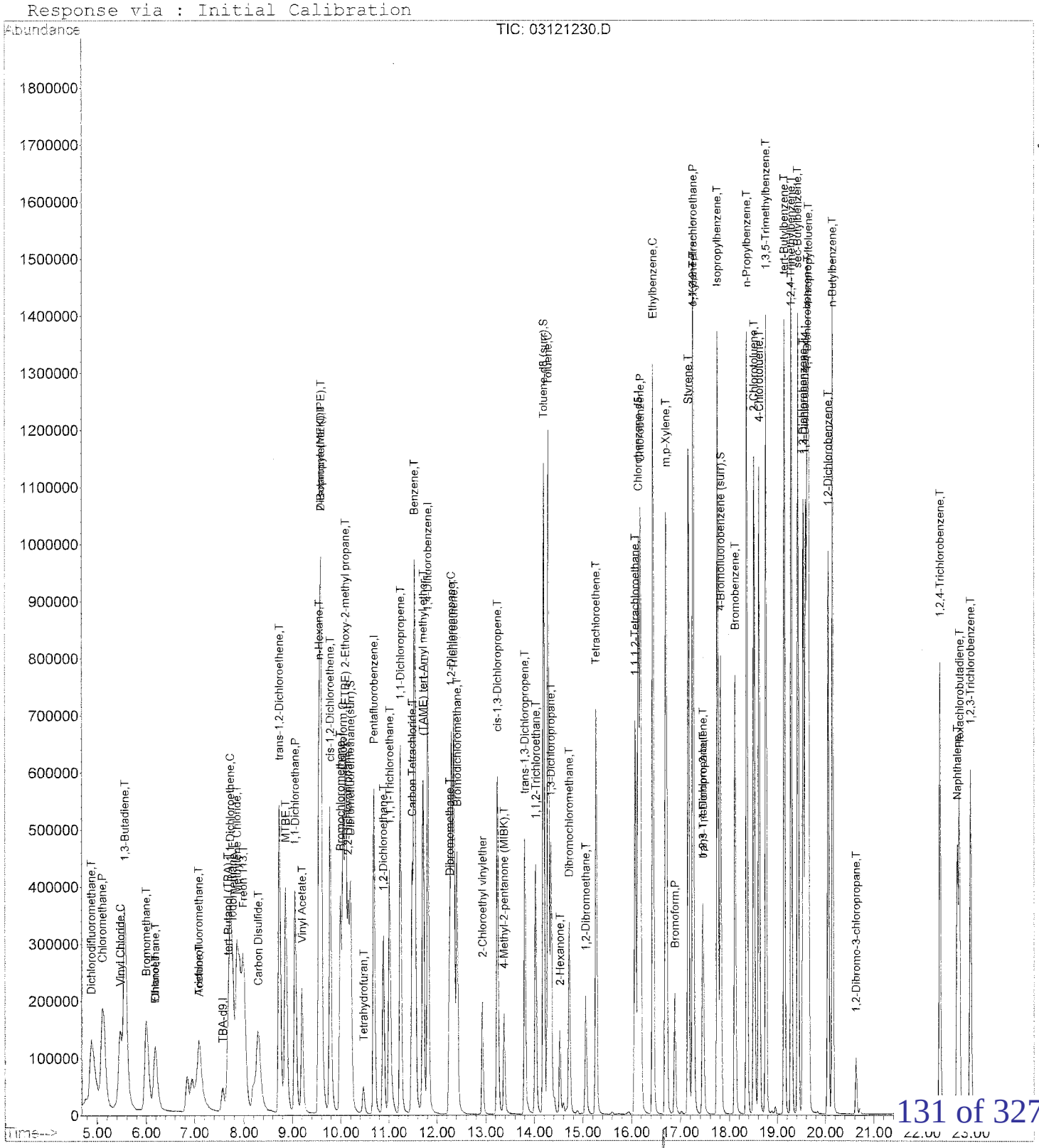
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	301048	21.09 ug/L	98
44)	Bromodichloromethane	12.42	83	381803	20.70 ug/L	100
45)	2-Chloroethyl vinylether	12.92	63	104641	23.88 ug/L	100
46)	cis-1,3-Dichloropropene	13.24	75	420961	23.75 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	182871	24.00 ug/L	97
48)	trans-1,3-Dichloropropene	13.81	75	334377	21.65 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	189493	22.41 ug/L	96
51)	Toluene	14.28	92	677377	22.53 ug/L	100
53)	1,3-Dichloropropane	14.34	76	327678	21.64 ug/L	99
54)	2-Hexanone	14.53	43	148820	25.91 ug/L	99
55)	Dibromochloromethane	14.72	129	232042	21.34 ug/L	100
56)	1,2-Dibromoethane	15.06	107	191212	21.94 ug/L	99
57)	Tetrachloroethene	15.28	164	224082	21.23 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	251034	21.20 ug/L	98
59)	Chlorobenzene	16.19	112	732712	20.77 ug/L	98
60)	Ethylbenzene	16.44	91	1252550	22.58 ug/L	99
61)	m,p-Xylene	16.71	106	491037	22.45 ug/L	97
62)	Styrene	17.16	104	765477	22.86 ug/L	99
63)	o-Xylene	17.26	106	490256	22.61 ug/L	98
66)	Bromoform	16.89	173	133678	22.59 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	193576	21.96 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	55561	23.15 ug/L	97
69)	trans-1,4-Dichloro-2-buten	17.47	53	56570	18.83 ug/L	98
70)	Isopropylbenzene	17.75	105	1229885	25.64 ug/L	100
71)	Bromobenzene	18.12	156	281553	22.97 ug/L	96
72)	n-Propylbenzene	18.37	91	1466940	23.86 ug/L	99
73)	2-Chlorotoluene	18.51	91	859937	21.36 ug/L	99
74)	4-Chlorotoluene	18.62	91	892724	22.07 ug/L	99
75)	1,3,5-Trimethylbenzene	18.76	105	996442	22.35 ug/L	100
76)	tert-Butylbenzene	19.14	119	804366	23.77 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	1021575	22.56 ug/L	99
78)	sec-Butylbenzene	19.42	105	1272401	22.94 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	536653	22.07 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	518048	21.32 ug/L	99
81)	4-Isopropyltoluene	19.65	119	980714	21.71 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	465204	22.87 ug/L	98
83)	n-Butylbenzene	20.15	91	973555	22.99 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	29163	25.11 ug/L	94
85)	1,2,4-Trichlorobenzene	22.36	180	358957	26.90 ug/L	100
86)	Naphthalene	22.72	128	491173	27.47 ug/L	99
87)	Hexachlorobutadiene	22.76	225	164134	24.13 ug/L	99
88)	1,2,3-Trichlorobenzene	22.99	180	282968	27.42 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121230.D 031212.M Wed Mar 14 10:32:40 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121230.D Vial: 18
Acq On : 12 Mar 2012 11:54 pm Operator: ms
Sample : 20 PPB SS/ICV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:32 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:~~29:25~~ 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.57	65	75566	200.00	ug/L	0.00
4) Pentafluorobenzene	10.69	168	459798	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	698677	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.14	117	570867	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	250210	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	271852	24.53	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.12%		
50) Toluene-d8 (surr)	14.19	98	773416	24.73	ug/L	0.00
Spiked Amount 25.000			Recovery =	98.92%		
64) 4-Bromofluorobenzene (surr	17.82	95	277115	23.70	ug/L	0.00
Spiked Amount 25.000			Recovery =	94.80%		

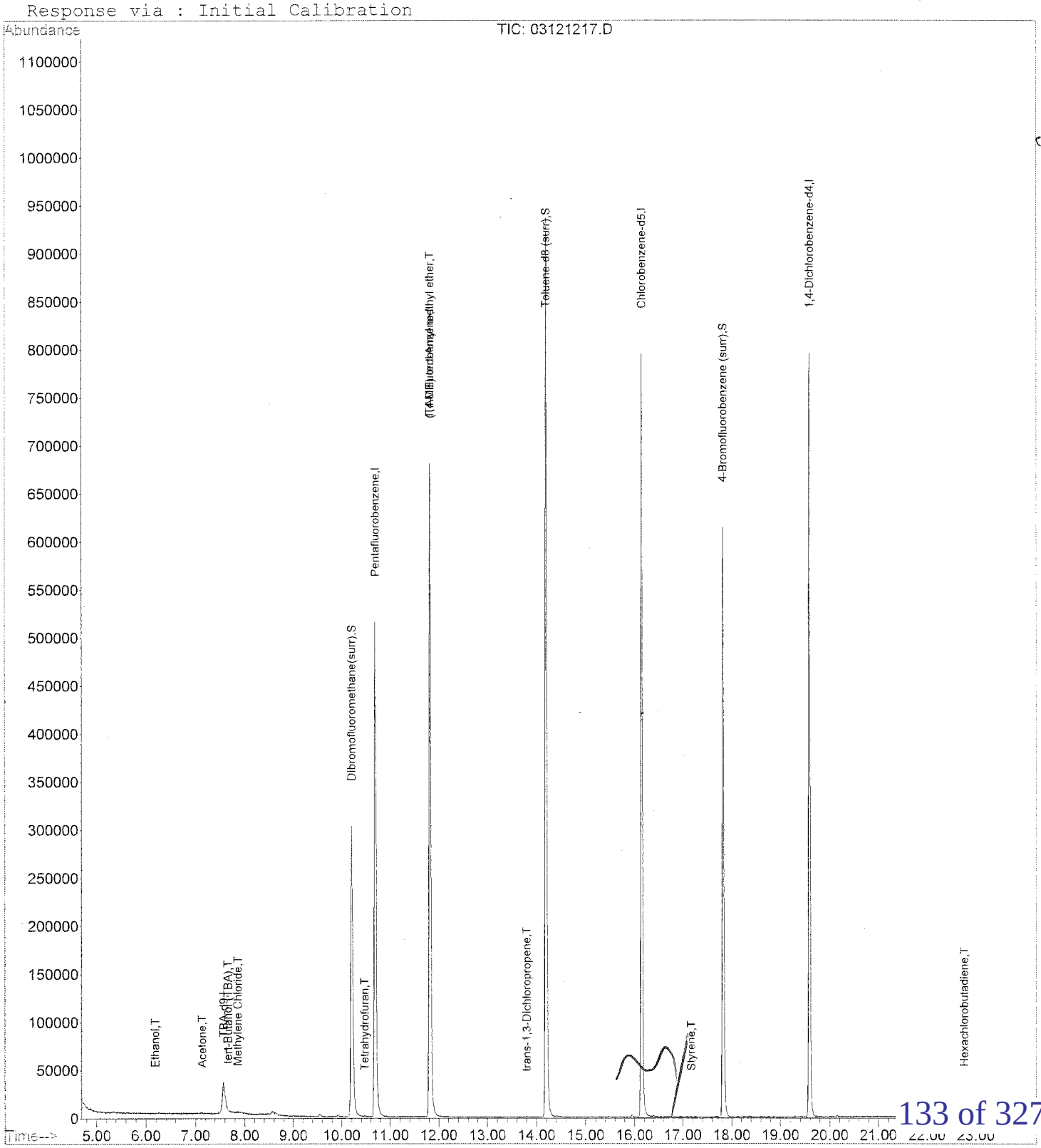
Target Compounds						Qvalue
2) Ethanol	6.18	45	219	4.64	ug/L #	88
3) tert-Butanol (TBA)	7.67	59	61	0.09	ug/L #	80
13) Acetone	7.13	43	1717	0.46	ug/L #	58
17) Methylene Chloride	7.86	84	1655	0.10	ug/L #	63
33) Tetrahydrofuran	10.47	72	111	0.19	ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	8227	0.38	ug/L #	40
48) trans-1,3-Dichloropropene	13.80	75	59	0.24	ug/L #	32
62) Styrene	17.16	104	58	0.10	ug/L #	19
87) Hexachlorobutadiene	22.76	225	1430	0.28	ug/L	98

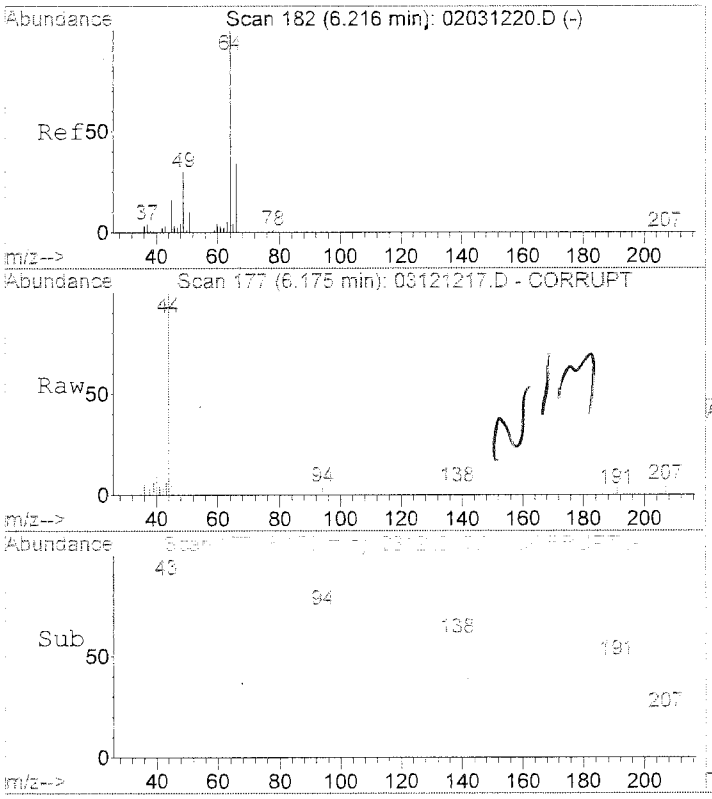
(#) = qualifier out of range (m) = manual integration
03121217.D 031212.M Wed Mar 14 10:51:43 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121217.D Vial: 5
Acq On : 12 Mar 2012 5:03 pm Operator: ms
Sample : BLANK Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

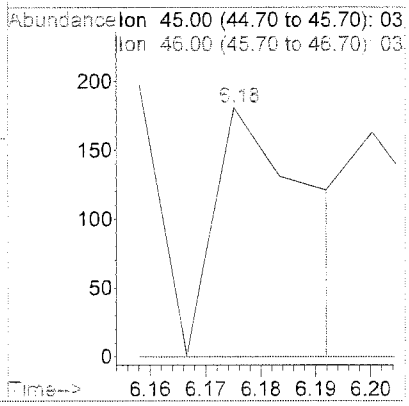


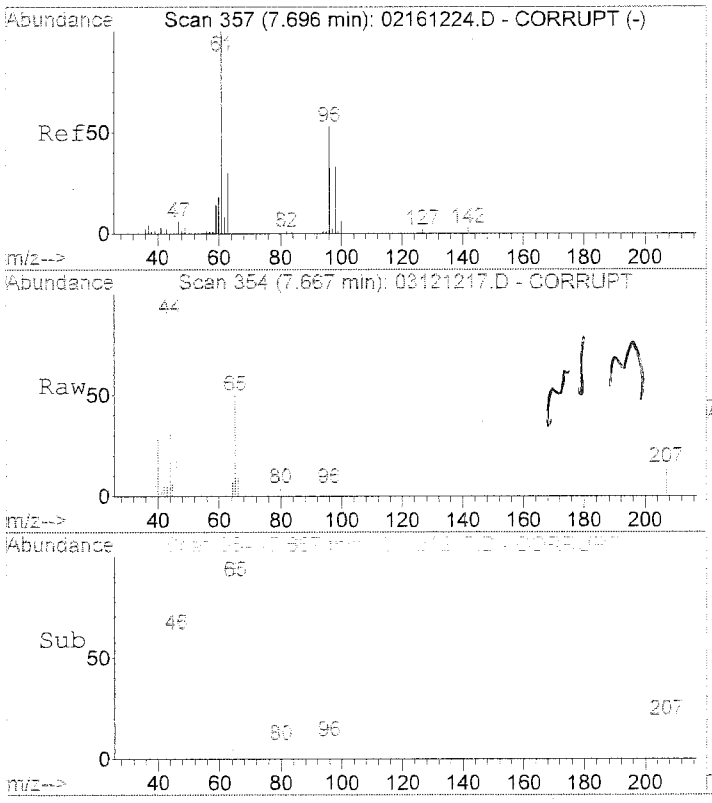


#2
Ethanol
Concen: 4.64 ug/L
RT: 6.18 min Scan# 177
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 45 Resp: 219

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.8	59.8#

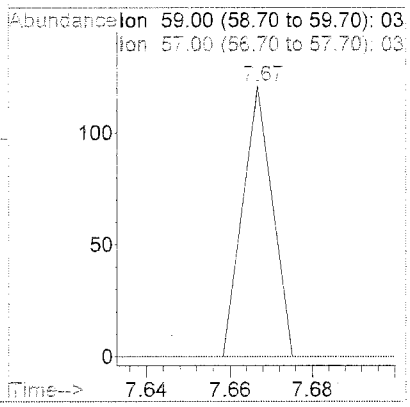


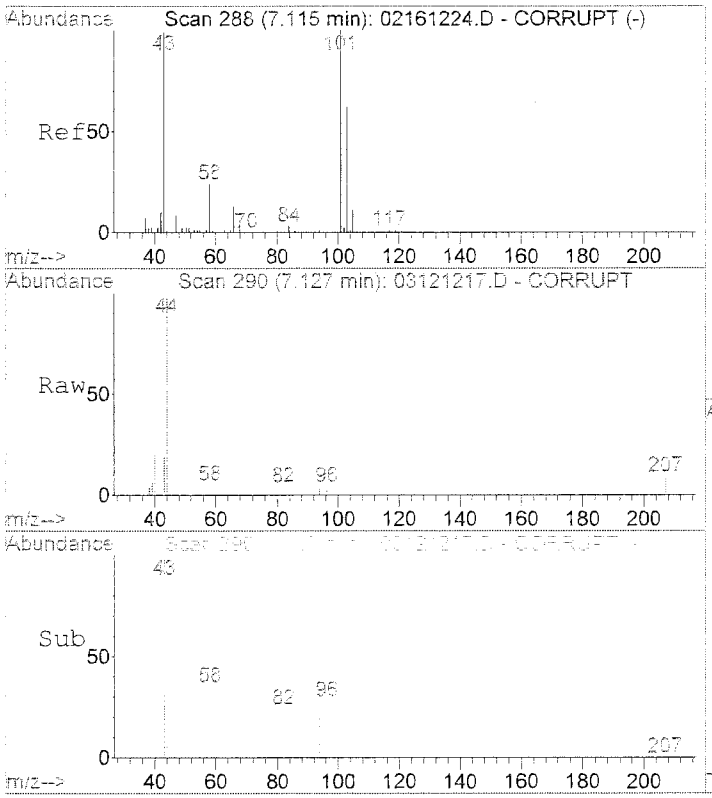


#3
tert-Butanol (TBA)
Concen: 0.09 ug/L
RT: 7.67 min Scan# 354
Delta R.T. -0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 59 Resp: 61

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

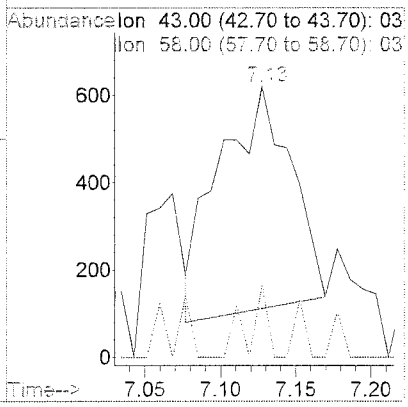


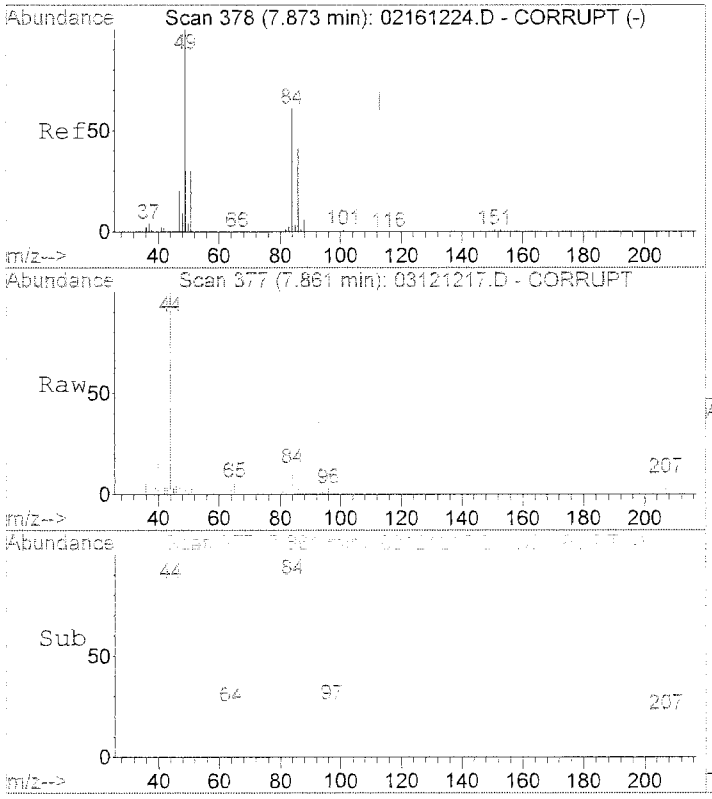


#13
Acetone
Concen: 0.46 ug/L
RT: 7.13 min Scan# 290
Delta R.T. 0.02 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 43 Resp: 1717

Ion	Ratio	Lower	Upper
43	100		
58	3.4	19.1	28.7#

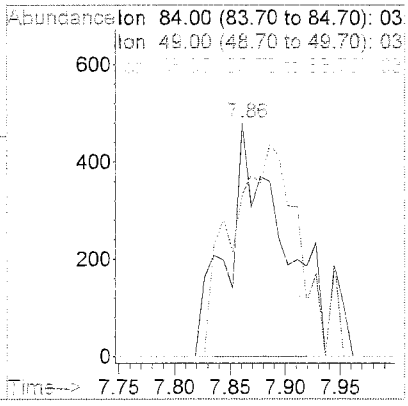


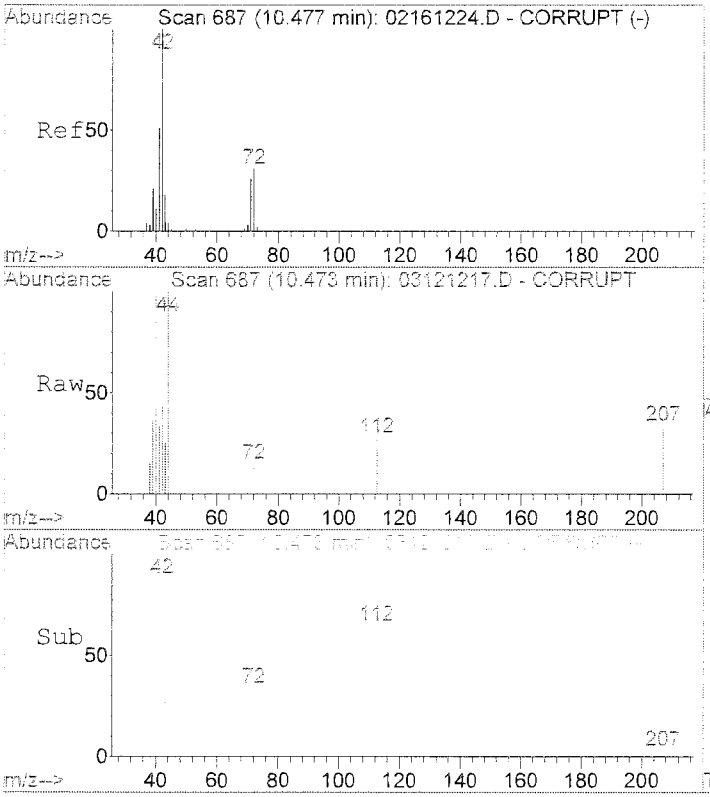


#17
Methylene Chloride
Concen: 0.10 ug/L
RT: 7.86 min Scan# 377
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 84 Resp: 1655

Ion	Ratio	Lower	Upper
84	100		
49	108.0	128.6	193.0#
86	40.1	51.2	76.8#

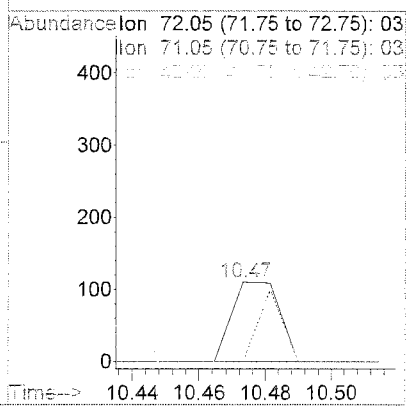


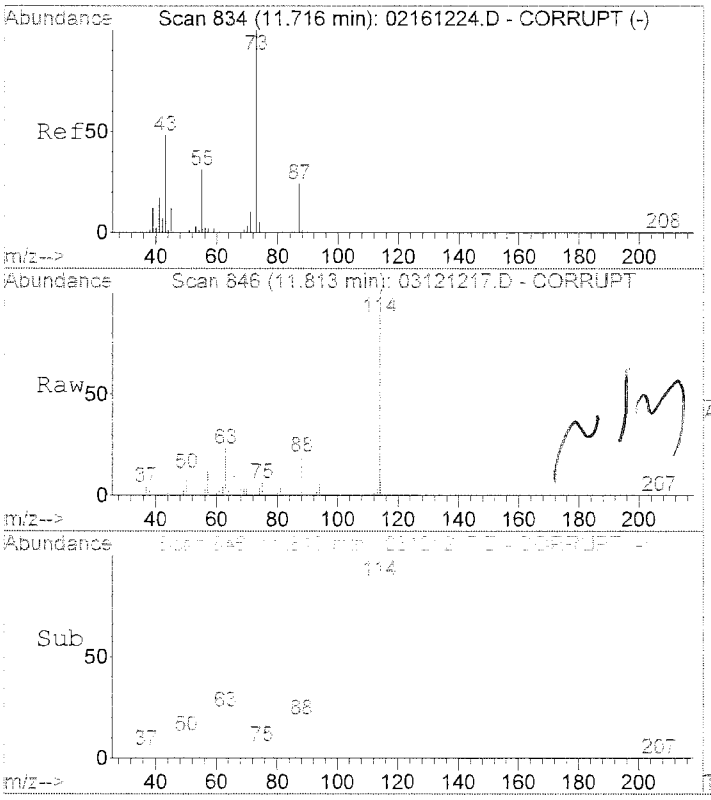


#33
Tetrahydrofuran
Concen: 0.19 ug/L
RT: 10.47 min Scan# 687
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 72 Resp: 111

Ion	Ratio	Lower	Upper
72	100		
71	45.9	74.4	114.4#
42	745.9	318.4	358.4#

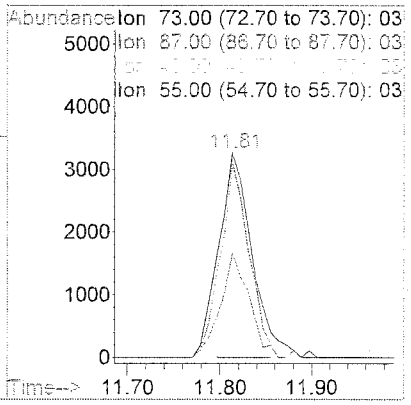


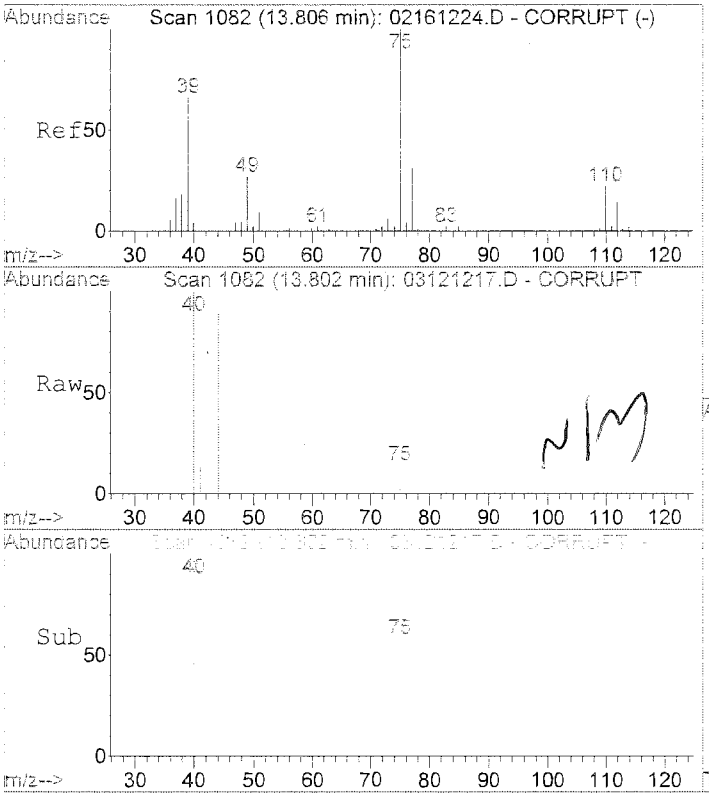


#36
(TAME) tert-Amyl methyl ether
Concen: 0.38 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 73 Resp: 8227

Ion	Ratio	Lower	Upper
73	100		
87	81.6	3.3	43.3#
43	7.2	27.7	67.7#
55	43.3	13.2	53.2

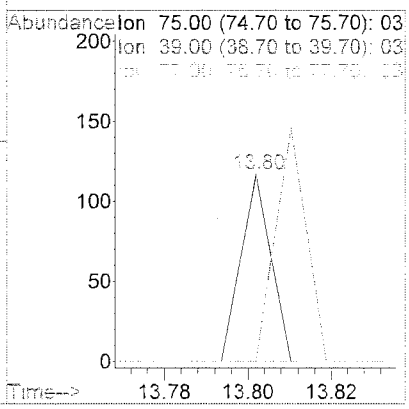


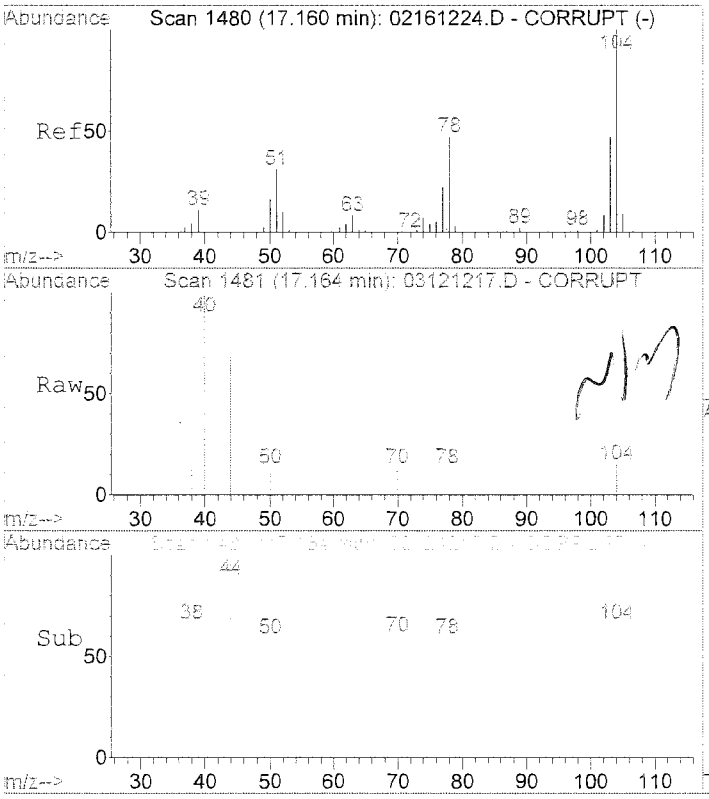


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1082
Delta R.T. -0.01 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion: 75 Resp: 59

Ion	Ratio	Lower	Upper
75	100		
39	125.4	53.5	80.3#
77	0.0	25.1	37.7#

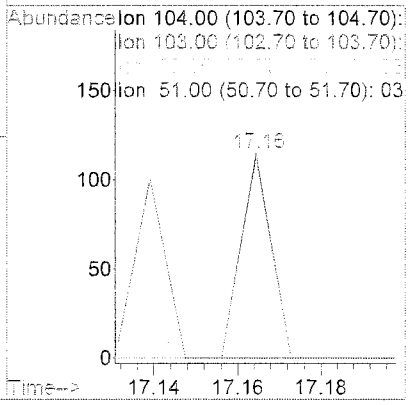


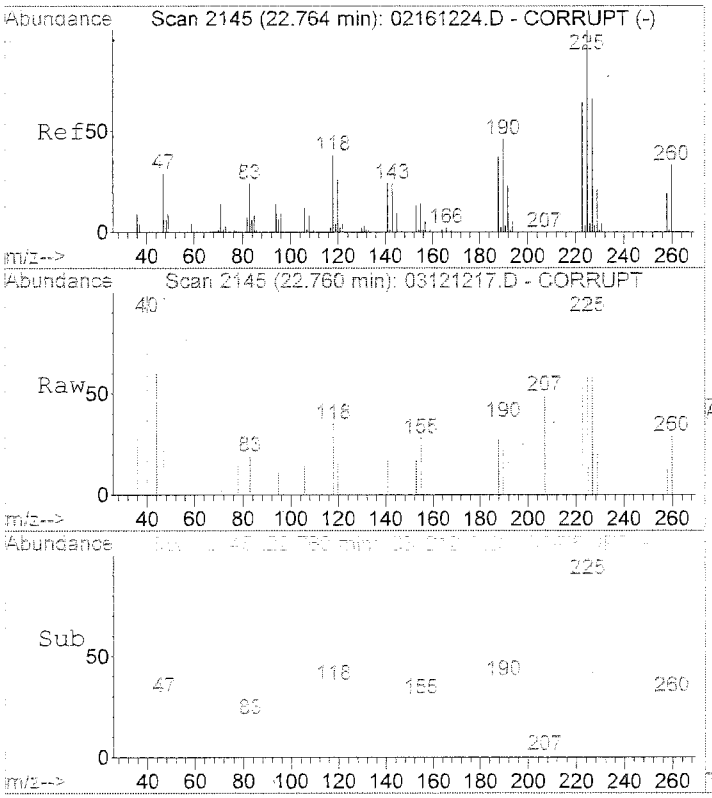


#62
Styrene
Concen: 0.10 ug/L
RT: 17.16 min Scan# 1481
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:104 Resp: 58

Ion	Ratio	Lower	Upper
104	100		
103	98.3	37.2	55.8#
78	0.0	35.8	53.8#
51	87.9	24.6	37.0#

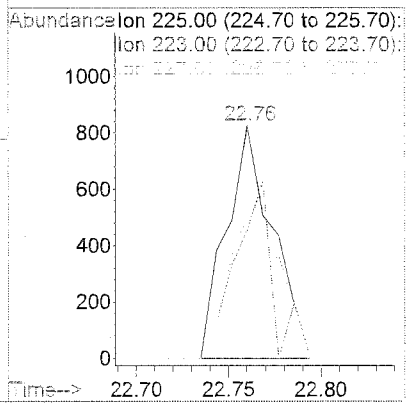




#87
Hexachlorobutadiene
Concen: 0.28 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.00 min
Lab File: 03121217.D
Acq: 12 Mar 2012 5:03 pm

Tgt Ion:225 Resp: 1430

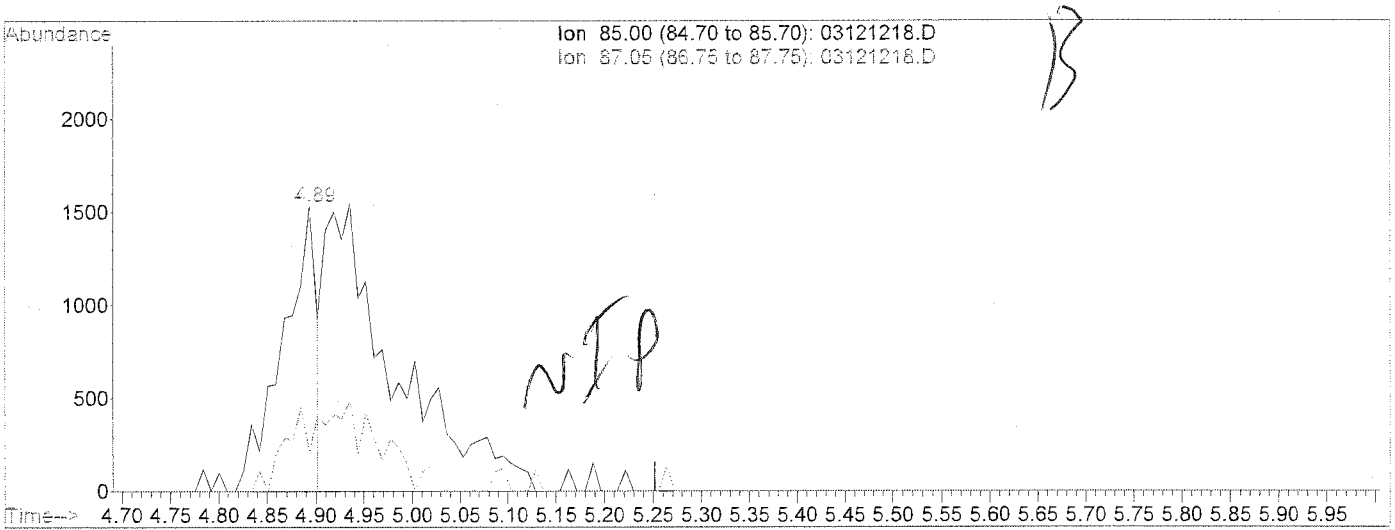
Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.8	74.8
227	65.5	50.7	76.1

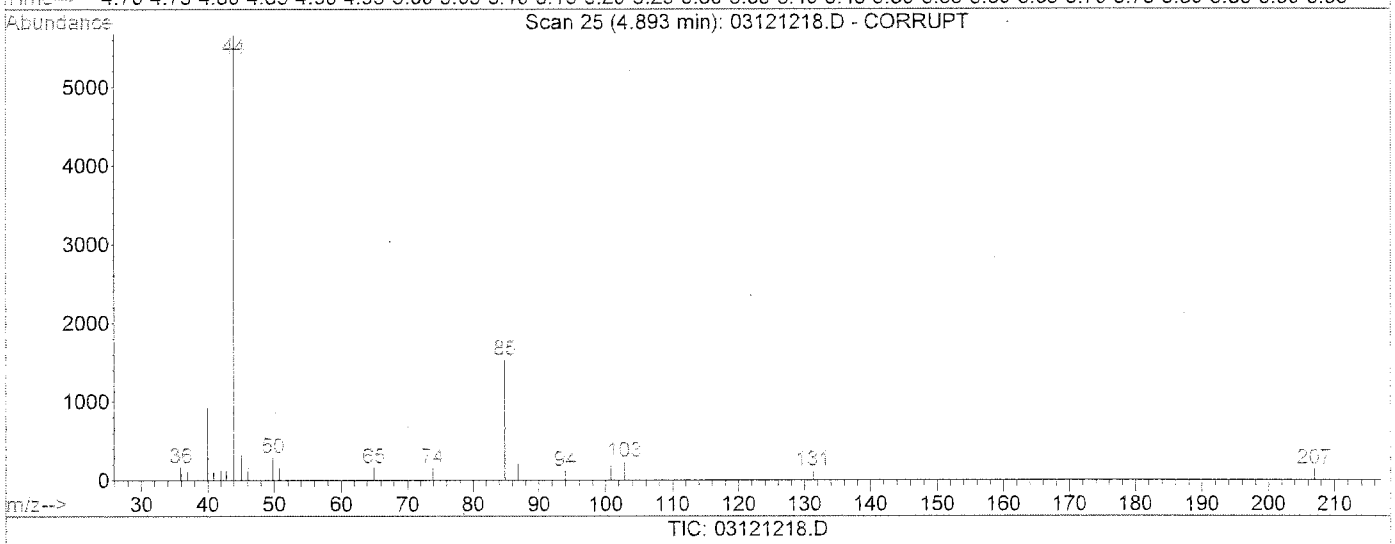


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:34 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.89min 0.18ug/L

response 3670

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	21.06
0.00	0.00	0.00
0.00	0.00	0.00

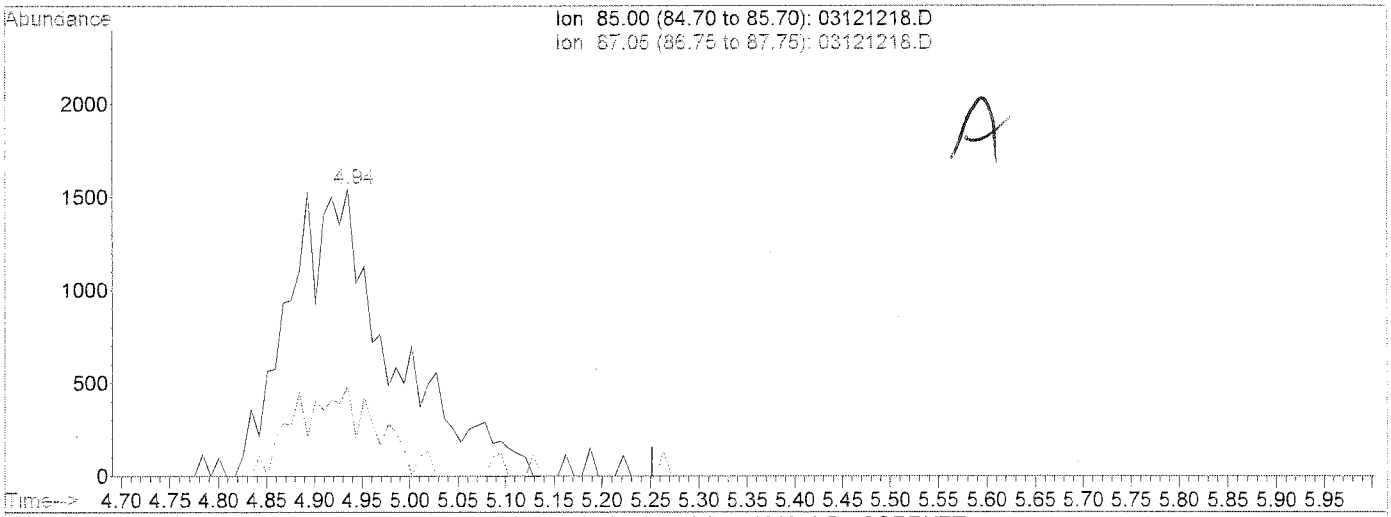
03/14/12

03121218.D 031212.M Wed Mar 14 10:35:03 2012

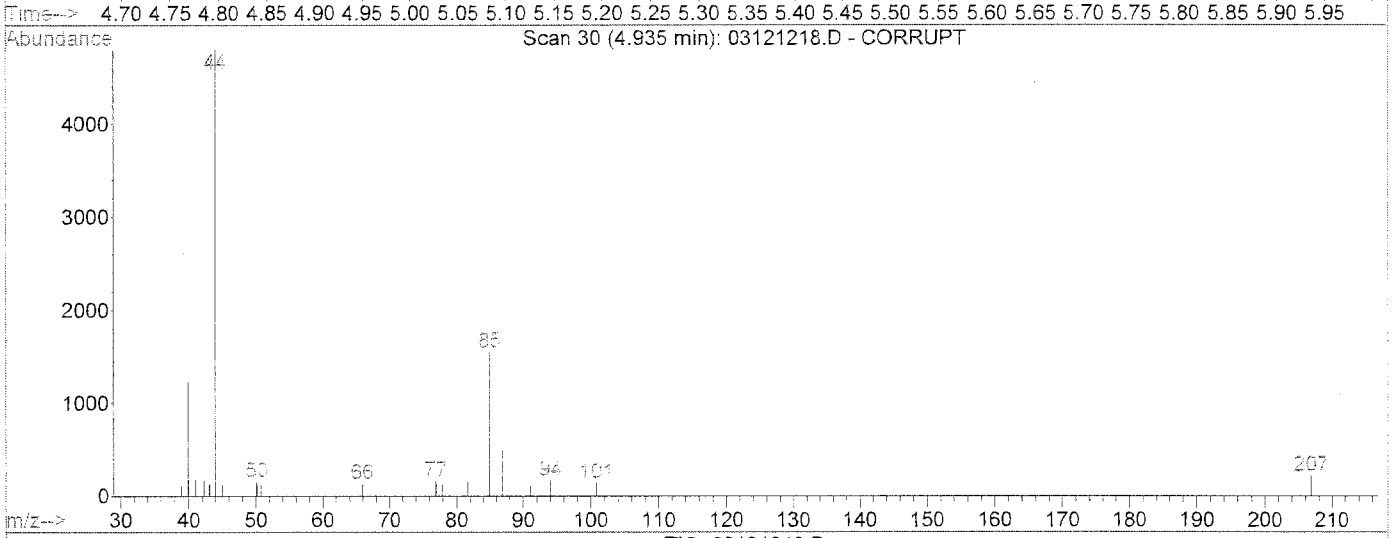
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



A



TIC: 03121218.D

(5) Dichlorodifluoromethane (T)

4.94min 0.55ug/L m

response 11482

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	6.73#
0.00	0.00	0.00
0.00	0.00	0.00

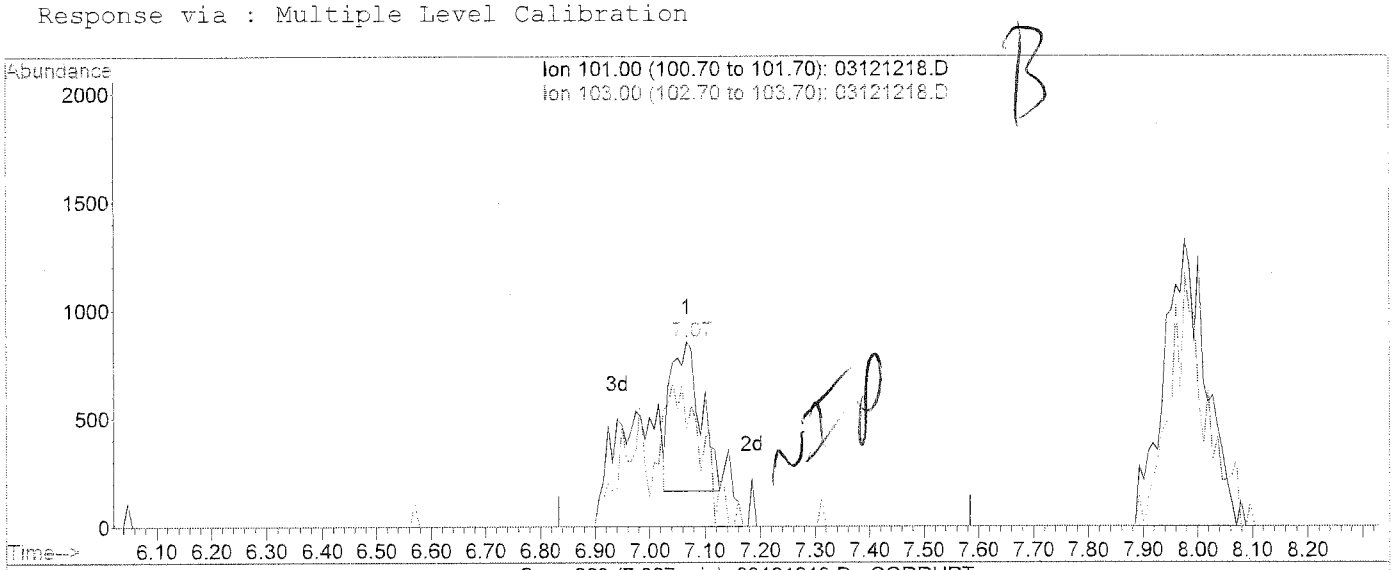
✓3/14/12

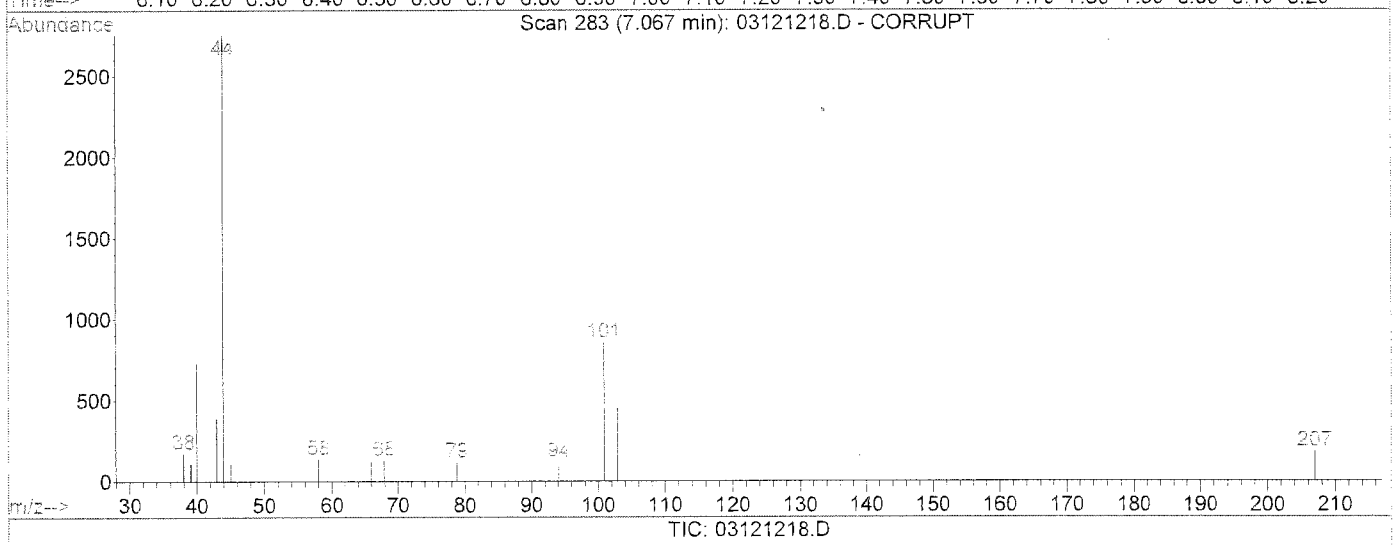
03121218.D 031212.M Wed Mar 14 10:35:08 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.15ug/L

response 2572

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	34.54#
0.00	0.00	0.00
0.00	0.00	0.00

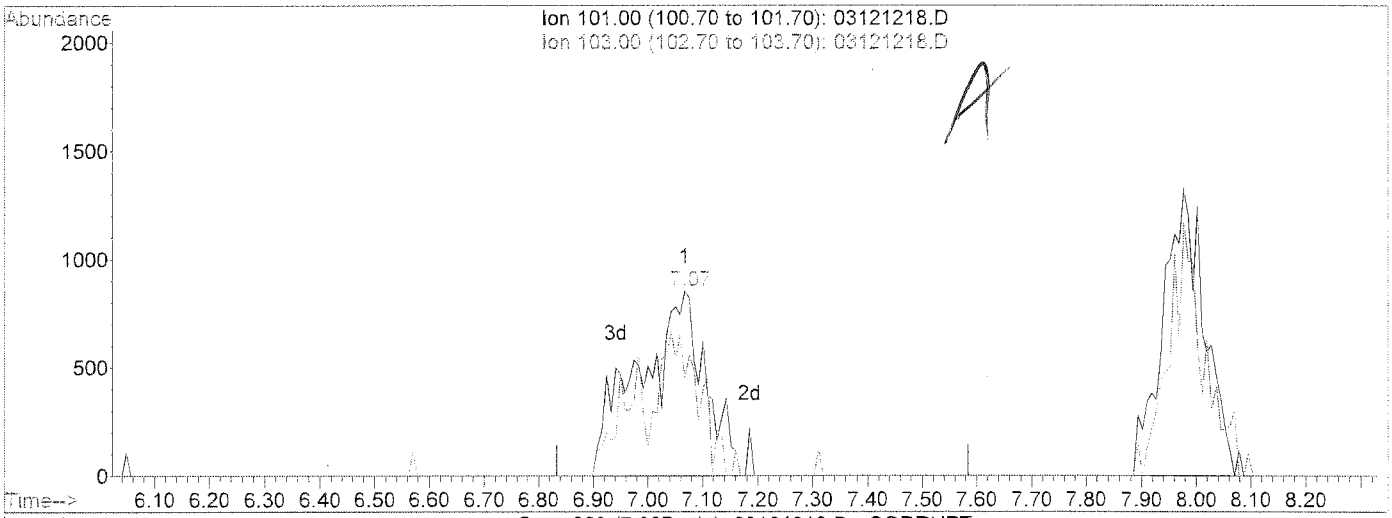
✓3/14/12

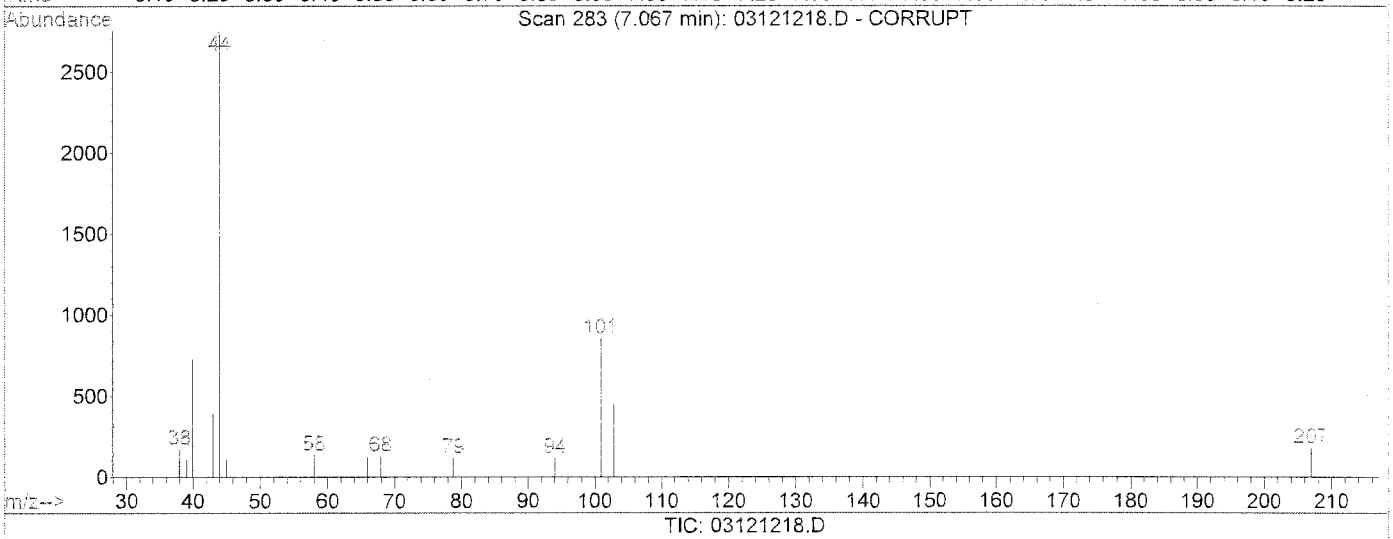
03121218.D 031212.M Wed Mar 14 10:35:13 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(12) Trichlorofluoromethane (T)

7.07min 0.42ug/L m

response 7132

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	52.52#
0.00	0.00	0.00
0.00	0.00	0.00

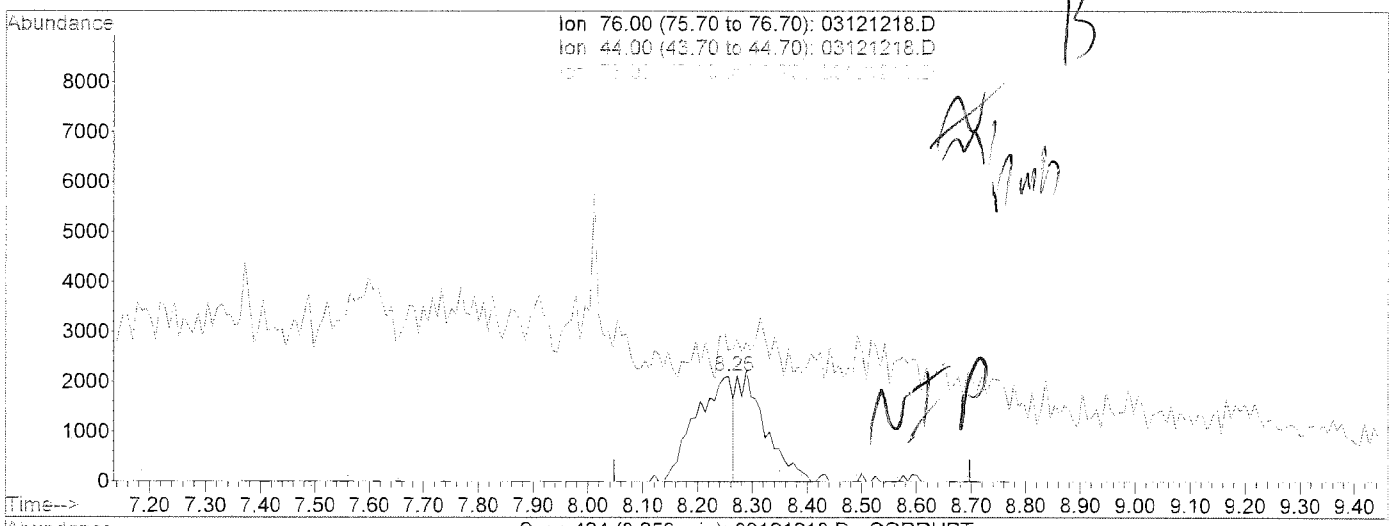
3/14/12

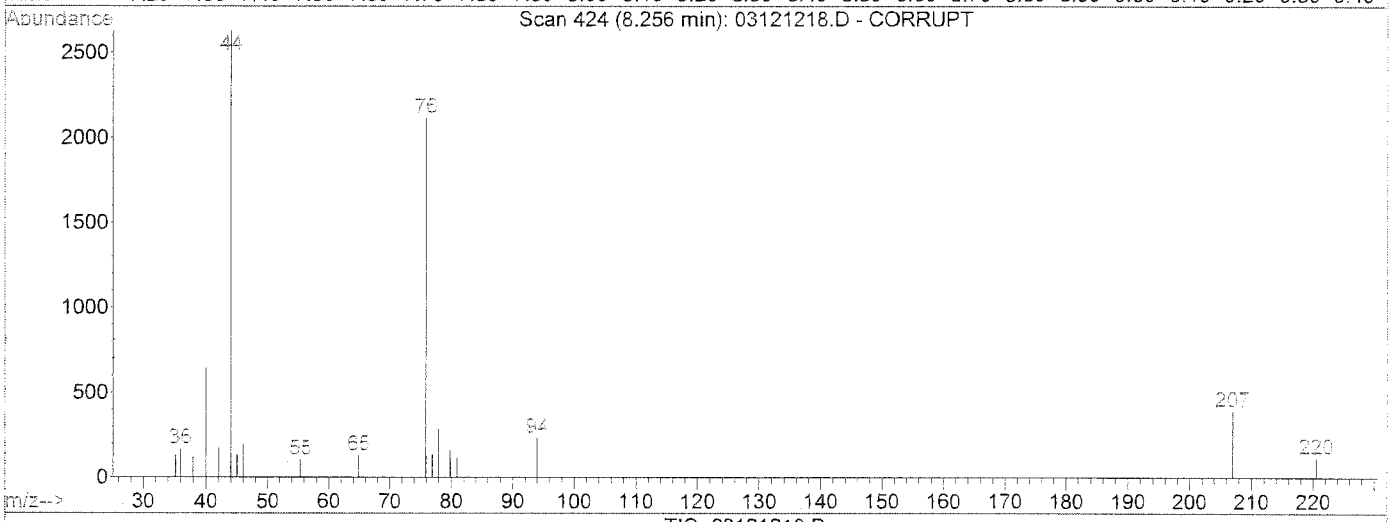
03121218.D 031212.M Wed Mar 14 10:35:20 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.26min 0.27ug/L

response 9698

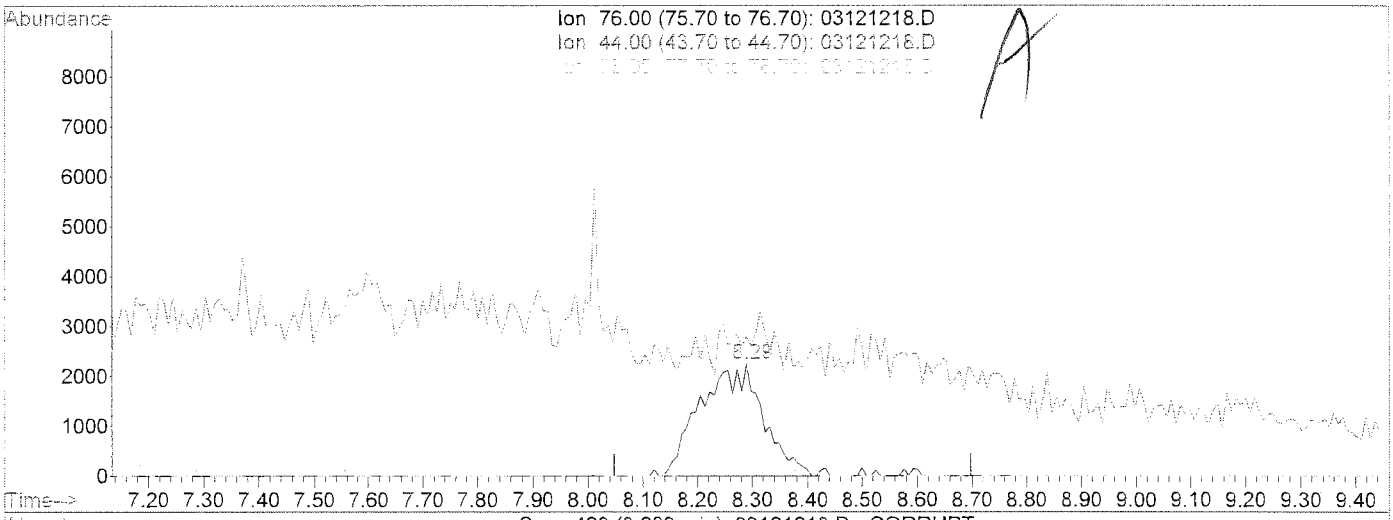
Ion	Exp%	Act%
76.00	100	100
44.00	14.20	16.64
78.00	9.00	4.05#
0.00	0.00	0.00

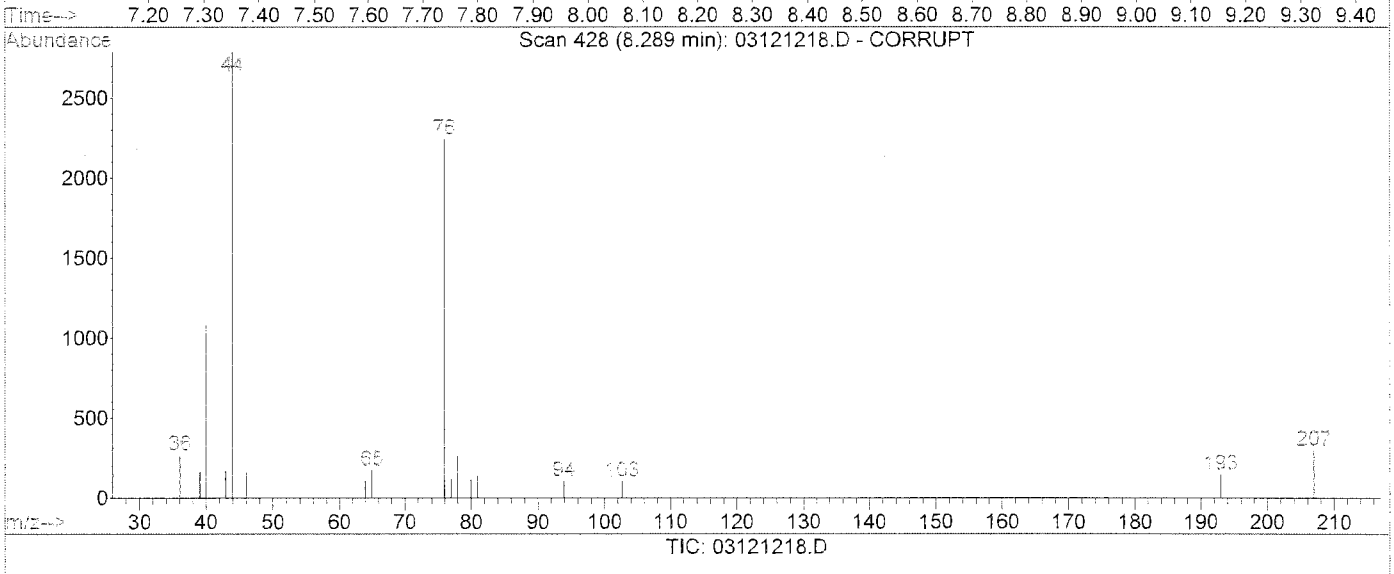
03121218.D 031212.M Wed Mar 14 10:35:26 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121218.D

(19) Carbon Disulfide (T)

8.29min 0.49ug/L m

response 17667

Ion	Exp%	Act%
76.00	100	100
44.00	14.20	9.14#
78.00	9.00	2.22#
0.00	0.00	0.00

3/14/12

03121218.D 031212.M Wed Mar 14 10:35:34 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12 Rq. calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	66949	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	449787	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	704861	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	562080	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	258325	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	273468	25.23 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.92%	
50) Toluene-d8 (surr)	14.19	98	800855	25.38 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.52%	
64) 4-Bromofluorobenzene (surr	17.82	95	284631	24.73 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.92%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.94	85	11482m	0.55 ug/L	
6) Chloromethane	5.10	50	12448	0.52 ug/L	95
7) Vinyl Chloride	5.42	62	10266	0.51 ug/L	96
8) 1,3-Butadiene	5.53	54	6222	0.52 ug/L #	70
9) Bromomethane	5.97	94	8301	0.57 ug/L #	50
10) Chloroethane	6.19	64	6204	0.53 ug/L #	75
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	7132m	0.42 ug/L	
13) Acetone	0.00	43	0	N.D. d	
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	11193	0.54 ug/L #	93
16) 1,1-Dichloroethene	7.71	96	7102	0.54 ug/L	93
17) Methylene Chloride	7.87	84	9848	0.62 ug/L	97
18) Freon 113	7.98	101	7086	0.49 ug/L #	87
19) Carbon Disulfide	8.29	76	17667m	0.49 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	8259	0.55 ug/L	92
21) MTBE	8.86	73	9848	0.44 ug/L	99
22) 1,1-Dichloroethane	9.06	63	14091	0.52 ug/L	96
23) Vinyl Acetate	9.21	43	8491	0.44 ug/L #	92
24) n-Hexane	9.55	86	1263	0.49 ug/L #	85
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.60	45	23379	0.47 ug/L	87
27) cis-1,2-Dichloroethene	9.80	96	6342	0.47 ug/L	91
28) Bromochloromethane	10.00	128	2651	0.48 ug/L	97
29) Chloroform	10.05	83	12905	0.54 ug/L	98
30) 2,2-Dichloropropane	10.17	77	7644	0.54 ug/L #	41
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	12957	0.42 ug/L	98
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	7547	0.50 ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	9419	0.51 ug/L	97
36) (TAME) tert-Amyl methyl et	11.71	73	7532	0.36 ug/L Deleted	92
38) 1,1-Dichloropropene	11.25	75	6890	0.45 ug/L	94
39) Carbon Tetrachloride	11.48	117	8199	0.52 ug/L	97
40) Benzene	11.54	78	21336	0.53 ug/L	97

(#) = qualifier out of range (m) = manual integration
03121218.D 031212.M Wed Mar 14 10:36:13 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

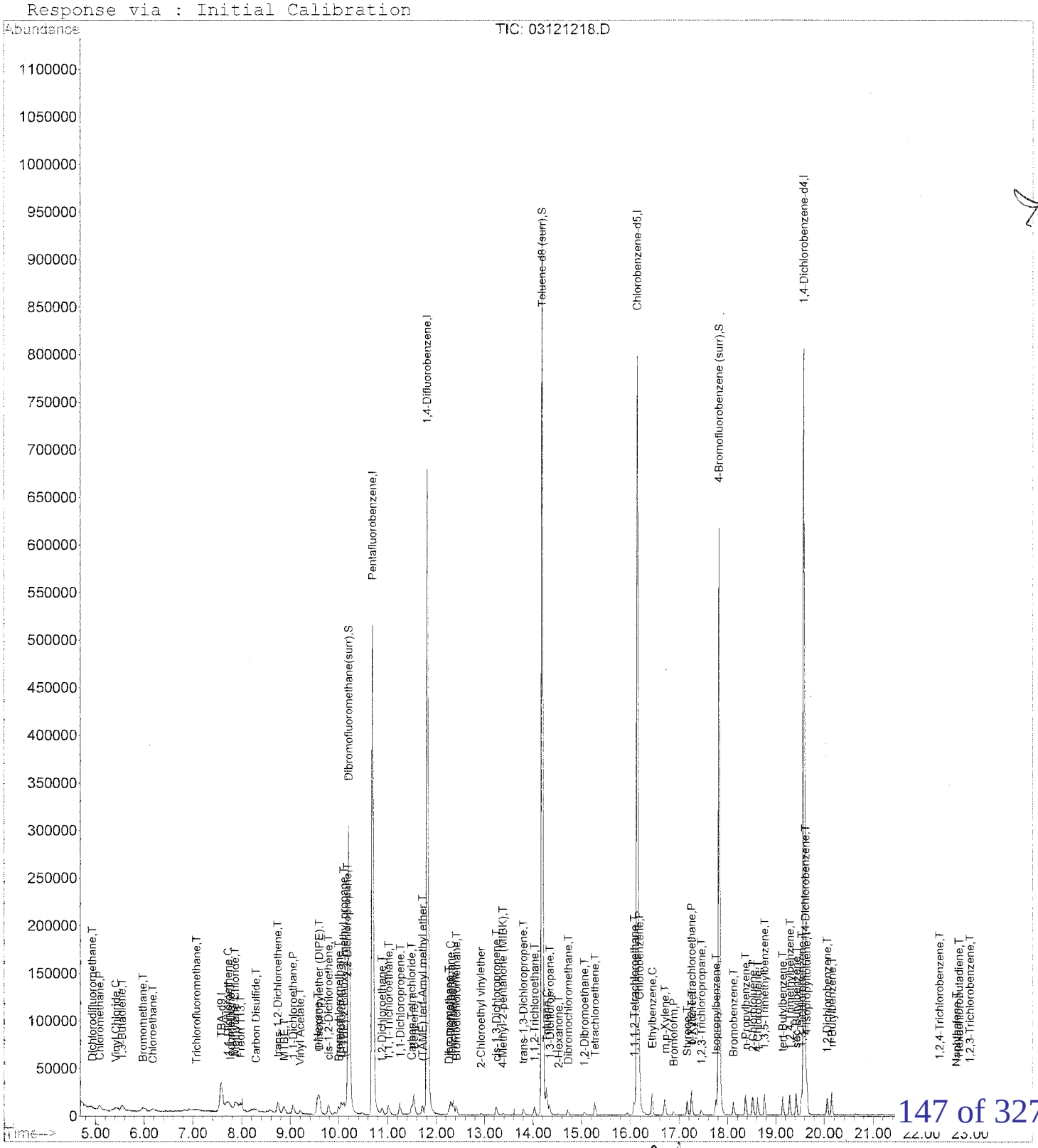
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	2884	0.49 ug/L	96
42)	1,2-Dichloropropane	12.31	63	5974	0.52 ug/L	96
43)	Trichloroethene	12.35	95	6441	0.54 ug/L	92
44)	Bromodichloromethane	12.42	83	7796	0.51 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	917	1.58 ug/L Deleted	97
46)	cis-1,3-Dichloropropene	13.24	75	6589	0.45 ug/L	95
47)	4-Methyl-2-pentanone (MIBK	13.39	43	2204	0.35 ug/L Deleted	99
48)	trans-1,3-Dichloropropene	13.81	75	4365	0.57 ug/L #	85
49)	1,1,2-Trichloroethane	14.04	97	3522	0.50 ug/L	96
51)	Toluene	14.29	92	12964	0.52 ug/L	96
53)	1,3-Dichloropropane	14.34	76	6024	0.51 ug/L	94
54)	2-Hexanone	14.53	43	1598	0.36 ug/L Deleted	85
55)	Dibromochloromethane	14.73	129	3896	0.46 ug/L	95
56)	1,2-Dibromoethane	15.06	107	3051	0.45 ug/L	99
57)	Tetrachloroethene	15.28	164	3976	0.48 ug/L	94
58)	1,1,1,2-Tetrachloroethane	16.08	131	4887	0.53 ug/L #	63
59)	Chlorobenzene	16.19	112	15208	0.55 ug/L	95
60)	Ethylbenzene	16.45	91	20022	0.46 ug/L	98
61)	m,p-Xylene	16.71	106	6922	0.40 ug/L	94
62)	Styrene	17.16	104	9083	0.45 ug/L	95
63)	o-Xylene	17.26	106	7032	0.41 ug/L #	87
66)	Bromoform	16.89	173	2078	0.45 ug/L	91
67)	1,1,2,2-Tetrachloroethane	17.25	83	3766	0.55 ug/L #	86
68)	1,2,3-Trichloropropane	17.45	110	821	0.44 ug/L #	87
69)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
70)	Isopropylbenzene	17.76	105	13985	0.38 ug/L	98
71)	Bromobenzene	18.12	156	4575	0.48 ug/L	92
72)	n-Propylbenzene	18.37	91	20377	0.43 ug/L	99
73)	2-Chlorotoluene	18.52	91	16078	0.52 ug/L #	86
74)	4-Chlorotoluene	18.62	91	14269	0.46 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	15780	0.46 ug/L	92
76)	tert-Butylbenzene	19.14	119	9693	0.37 ug/L	93
77)	1,2,4-Trimethylbenzene	19.30	105	14689	0.42 ug/L	99
78)	sec-Butylbenzene	19.43	105	19925	0.46 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	9324	0.50 ug/L	91
80)	1,4-Dichlorobenzene	19.62	146	9764	0.52 ug/L #	77
81)	4-Isopropyltoluene	19.65	119	17175	0.49 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	7685	0.49 ug/L	97
83)	n-Butylbenzene	20.16	91	14817	0.45 ug/L	92
84)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
85)	1,2,4-Trichlorobenzene	22.36	180	4456	0.43 ug/L #	95
86)	Naphthalene	22.71	128	3760	0.27 ug/L Deleted	97
87)	Hexachlorobutadiene	22.77	225	3636	0.69 ug/L	96
88)	1,2,3-Trichlorobenzene	23.00	180	3074	0.39 ug/L	87

(#) = qualifier out of range (m) = manual integration
03121218.D 031212.M Wed Mar 14 10:36:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121218.D Vial: 6
Acq On : 12 Mar 2012 5:35 pm Operator: ms
Sample : 0.5 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: 031212.RES

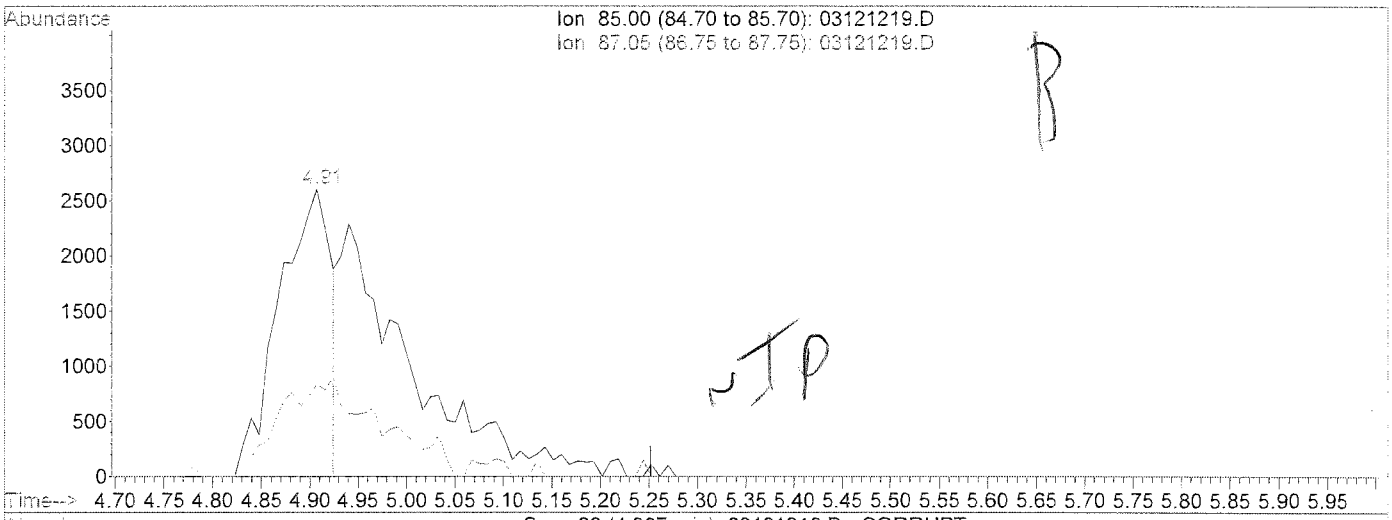
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

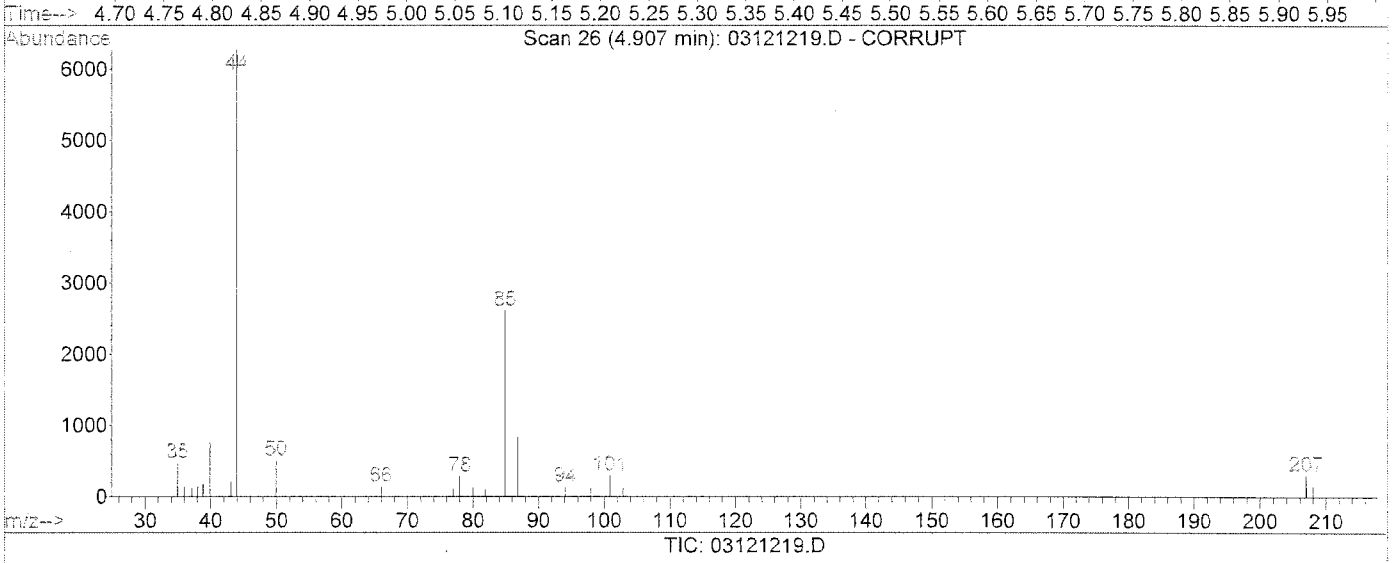
Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:36 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



R

~TP



TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 0.46ug/L

response 9600

Ion	Exp%	Act%
85.00	100	100
87.05	32.50	26.61
0.00	0.00	0.00
0.00	0.00	0.00

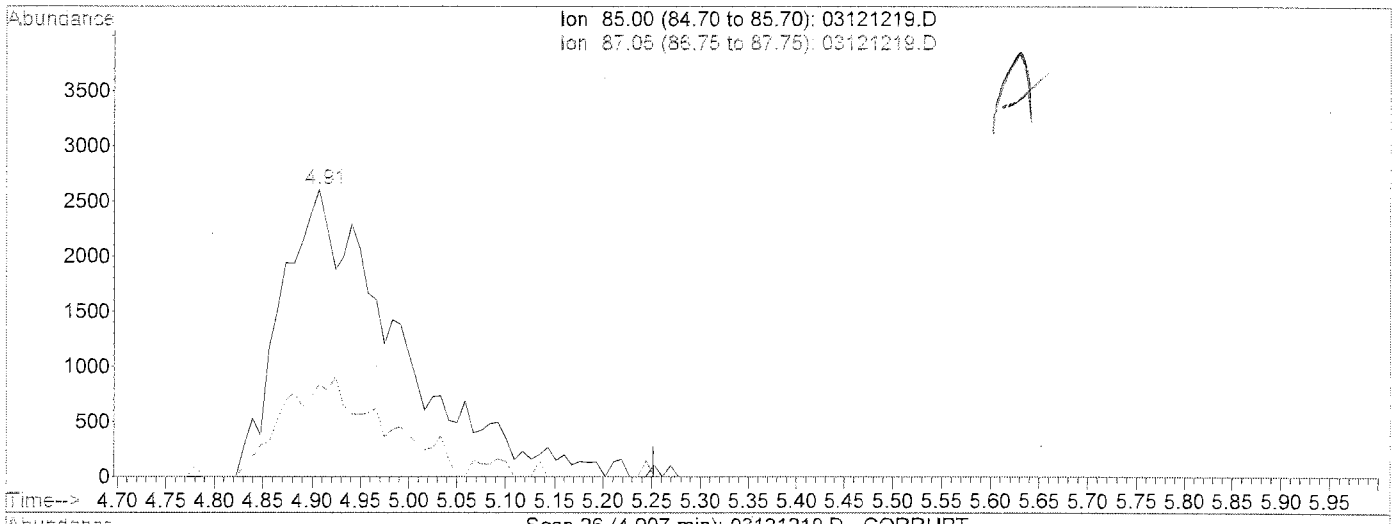
✓ 3/14/12

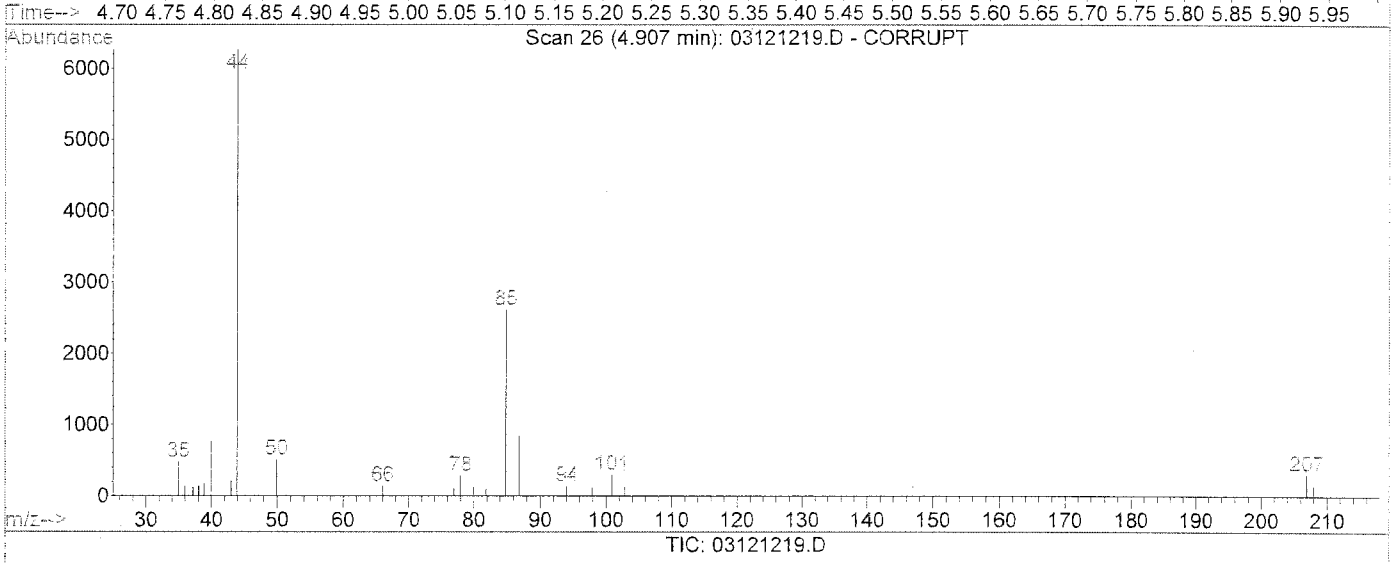
03121219.D 031212.M Wed Mar 14 10:39:15 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(5) Dichlorodifluoromethane (T)

4.91min 1.04ug/L m

response 21413

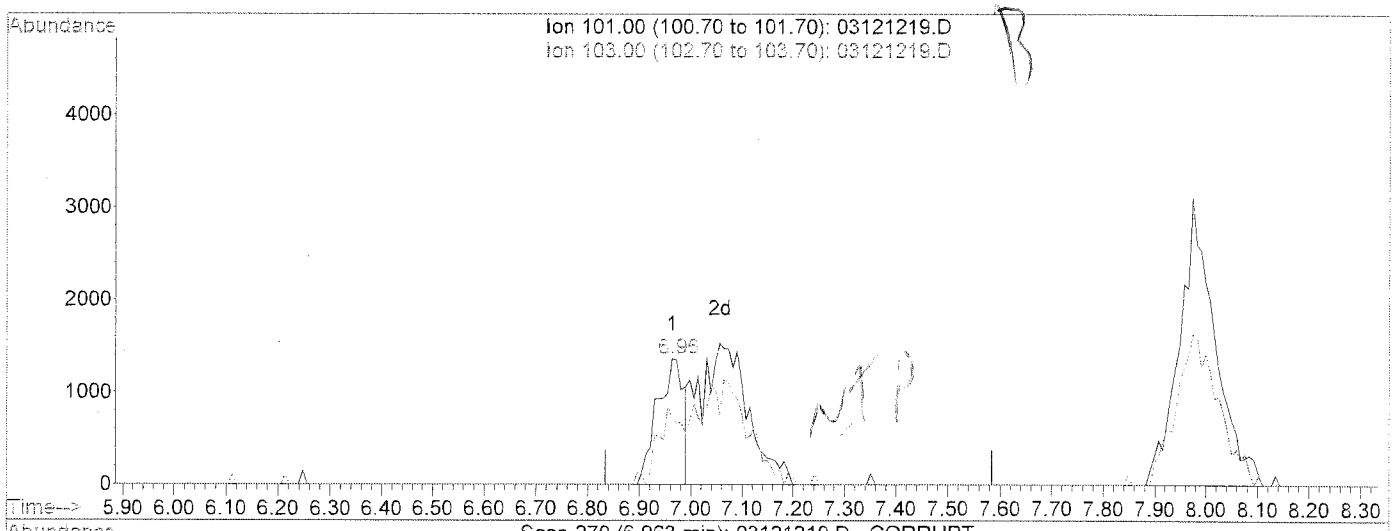
Ion	Exp%	Act%
85.00	100	100
87.05	32.50	11.93#
0.00	0.00	0.00
0.00	0.00	0.00

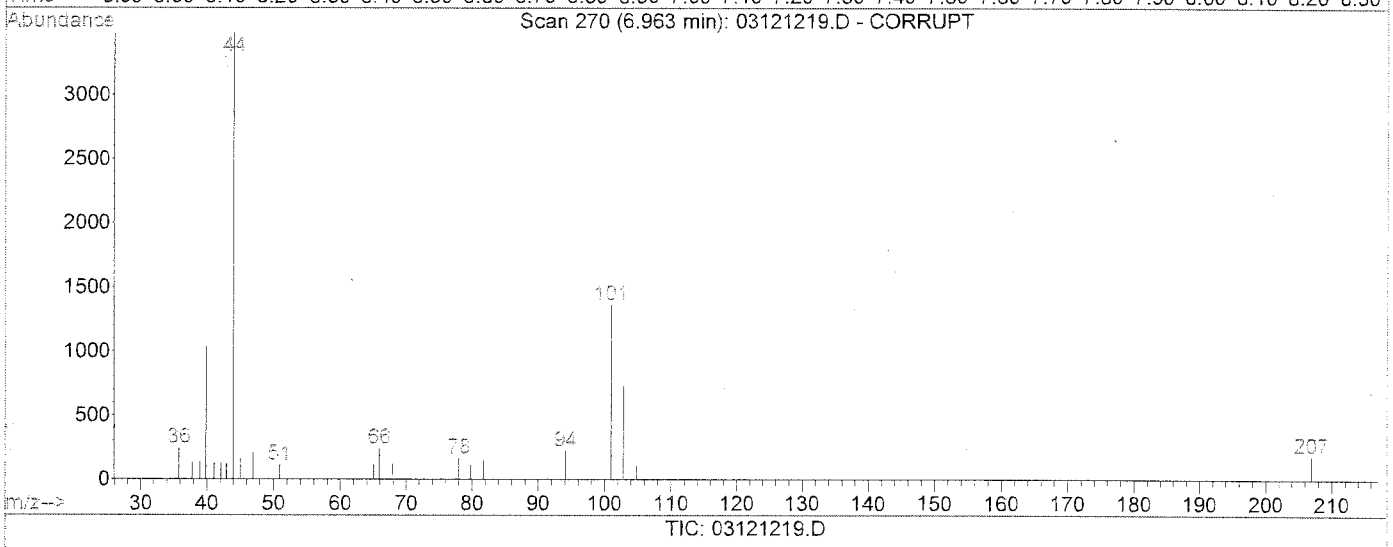
03121219.D 031212.M Wed Mar 14 10:39:26 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

6.96min 0.28ug/L

response 4757

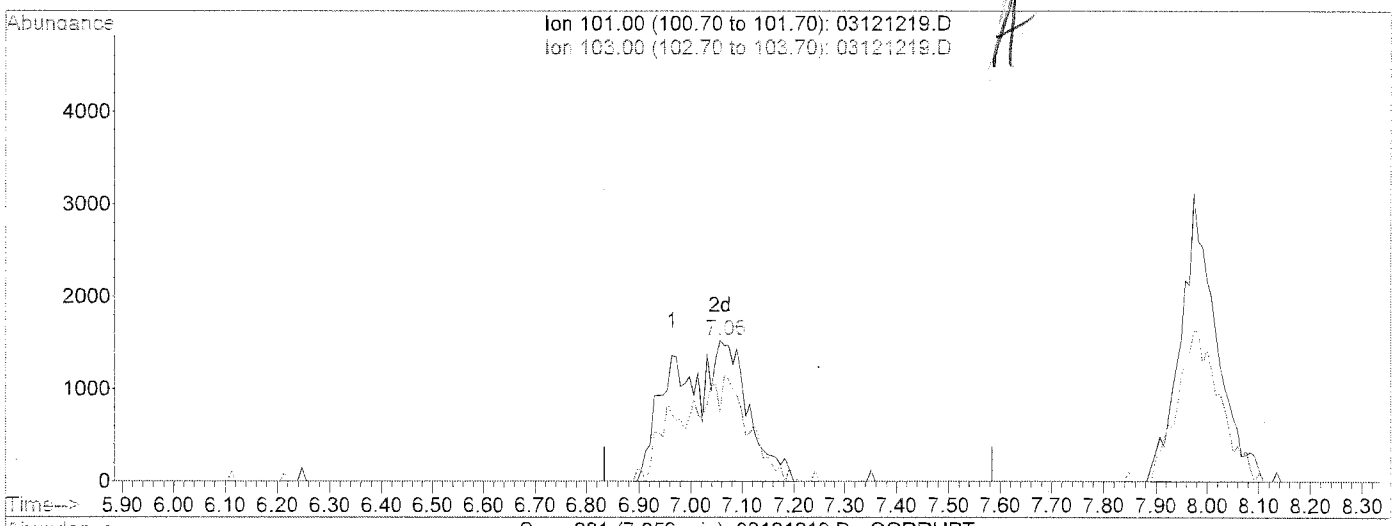
Ion	Exp%	Act%
101.00	100	100
103.00	66.40	53.34
0.00	0.00	0.00
0.00	0.00	0.00

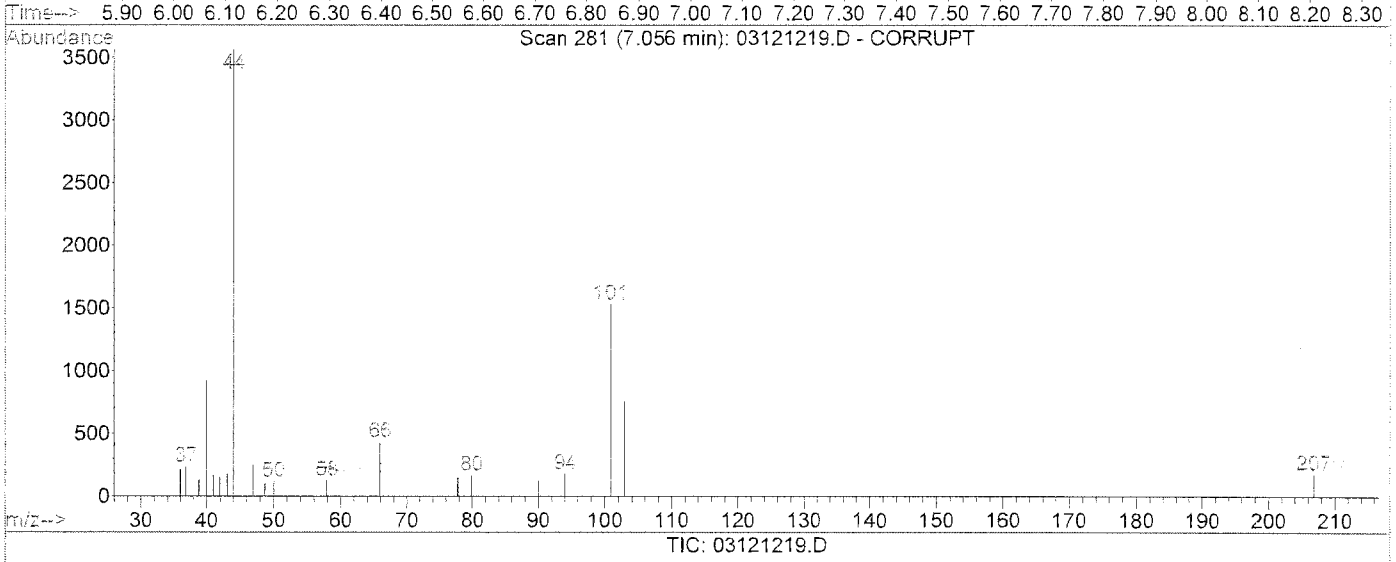
03121219.D 031212.M Wed Mar 14 10:41:51 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(12) Trichlorofluoromethane (T)

7.06min 0.89ug/L m

response 14897

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	49.18#
0.00	0.00	0.00
0.00	0.00	0.00

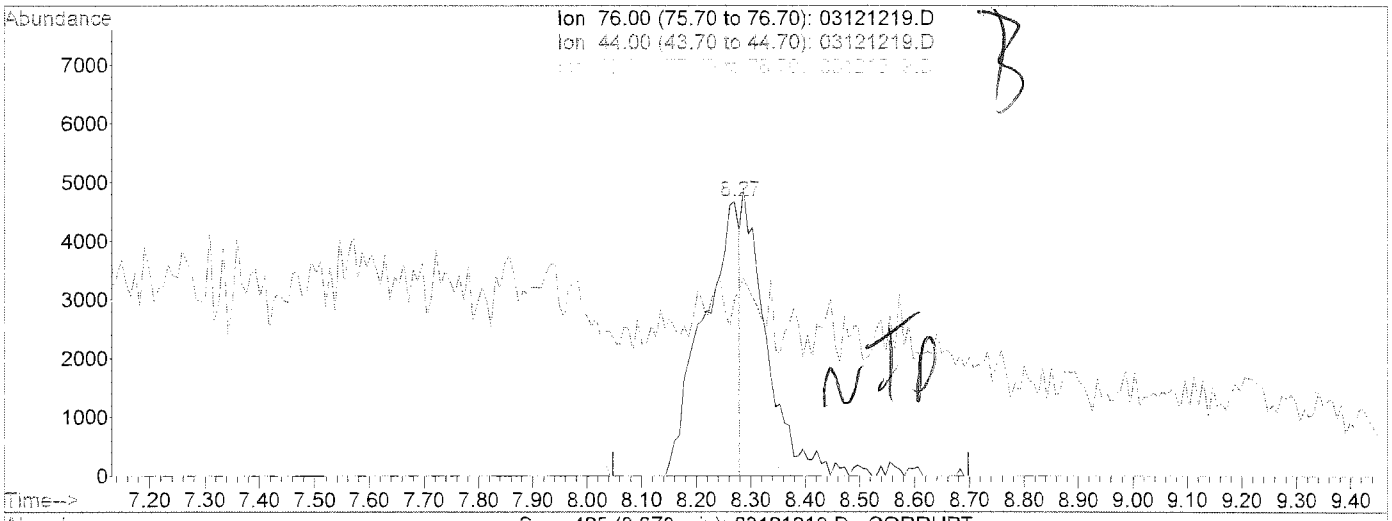
3/14/12

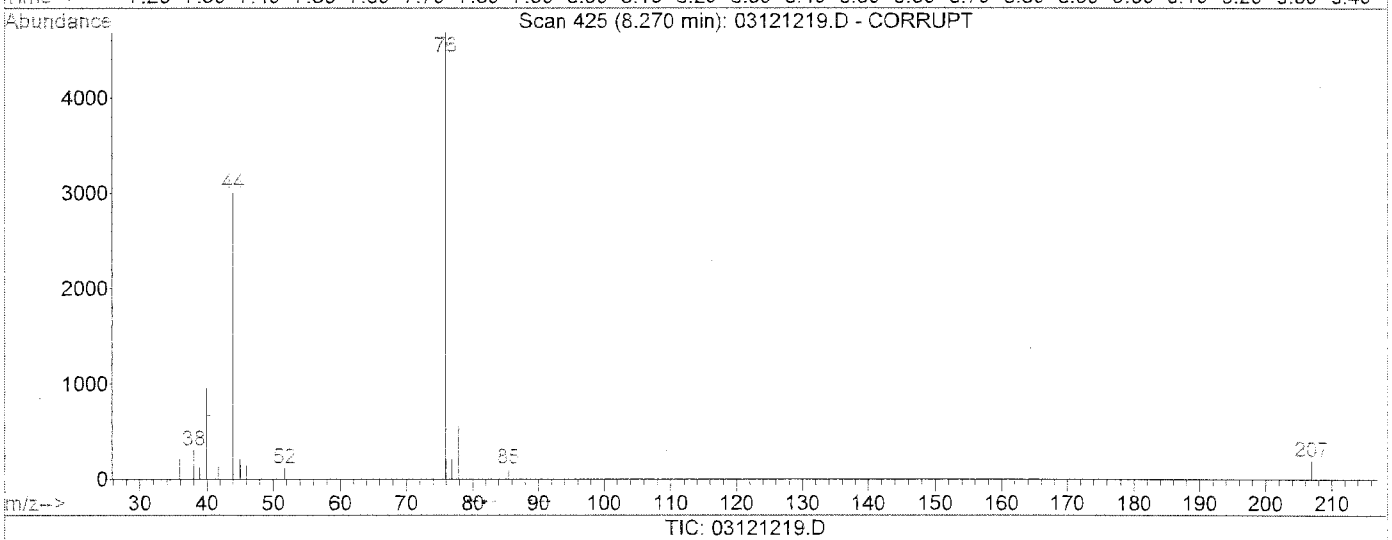
03121219.D 031212.M Wed Mar 14 10:42:00 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.27min 0.60ug/L

response 21340

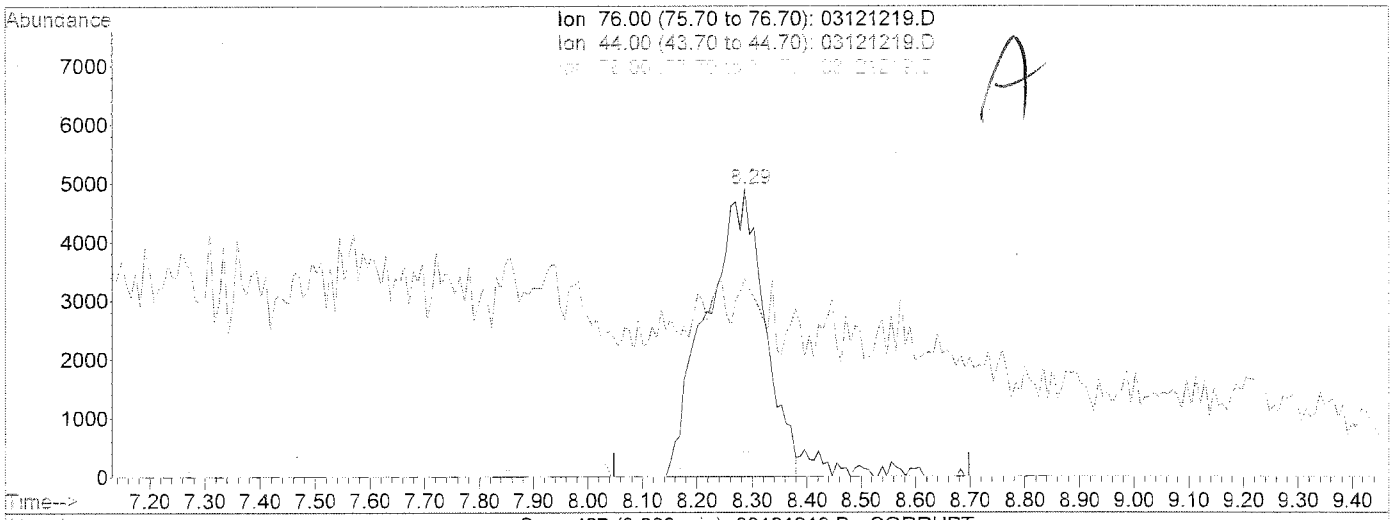
Ion	Exp%	Act%
76.00	100	100
44.00	14.20	20.11#
78.00	9.00	4.33#
0.00	0.00	0.00

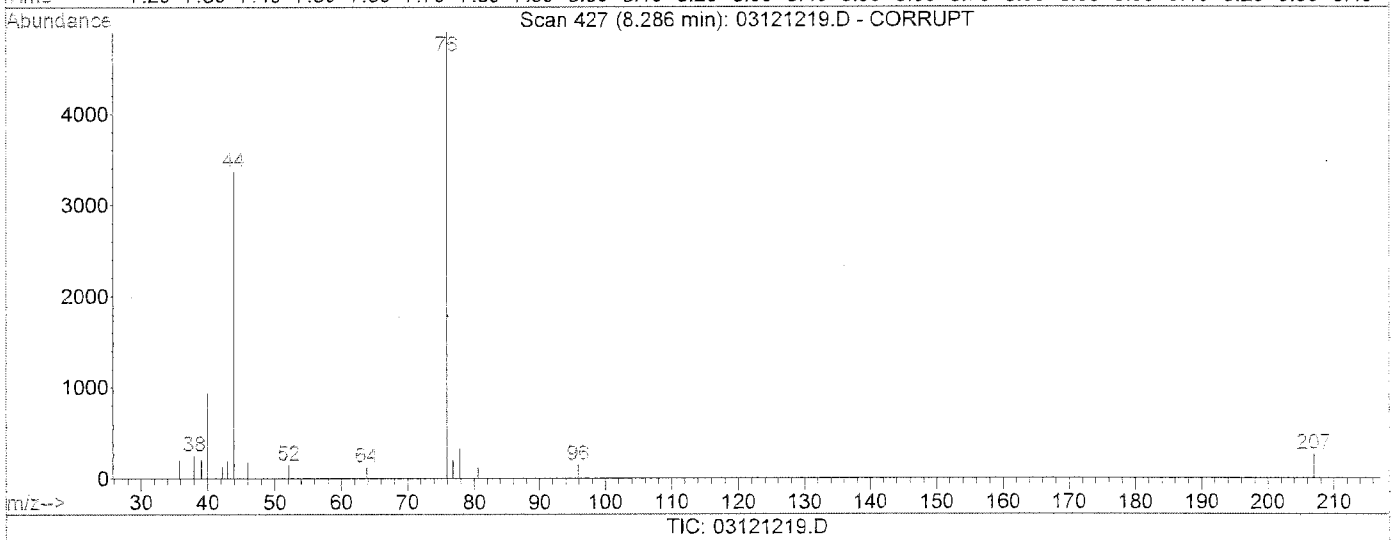
03121219.D 031212.M Wed Mar 14 10:45:02 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(19) Carbon Disulfide (T)

8.29min 0.99ug/L m

response 35519

Ion	Exp%	Act%
76.00	100	100
44.00	14.20	12.08
78.00	9.00	2.60#
0.00	0.00	0.00

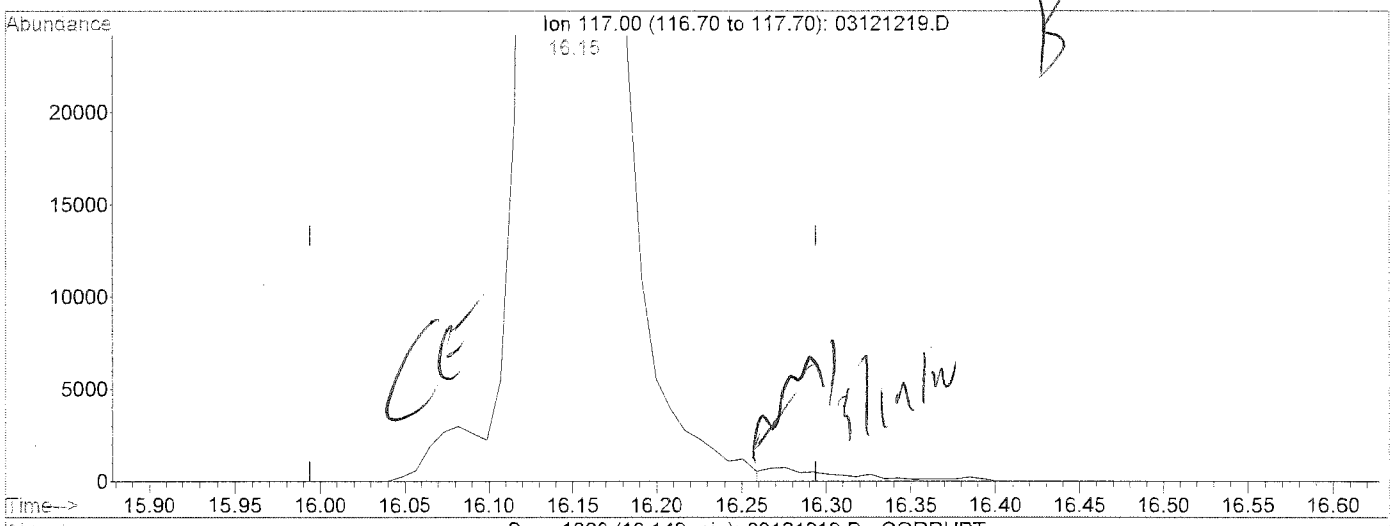
✓3/14/12

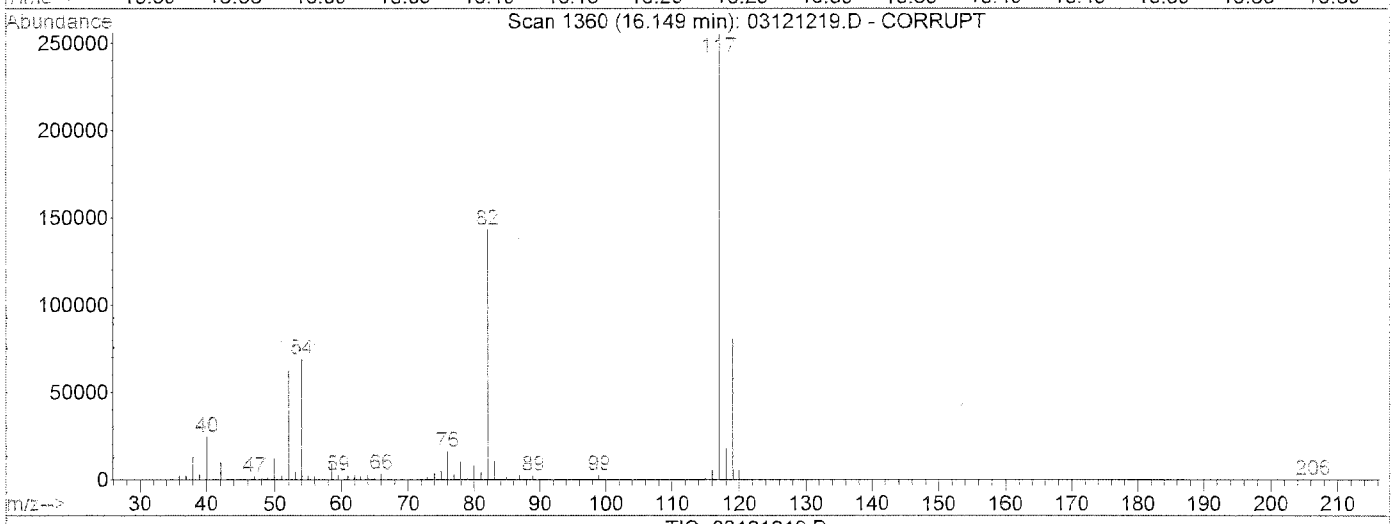
03121219.D 031212.M Wed Mar 14 10:45:12 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L

response 589571

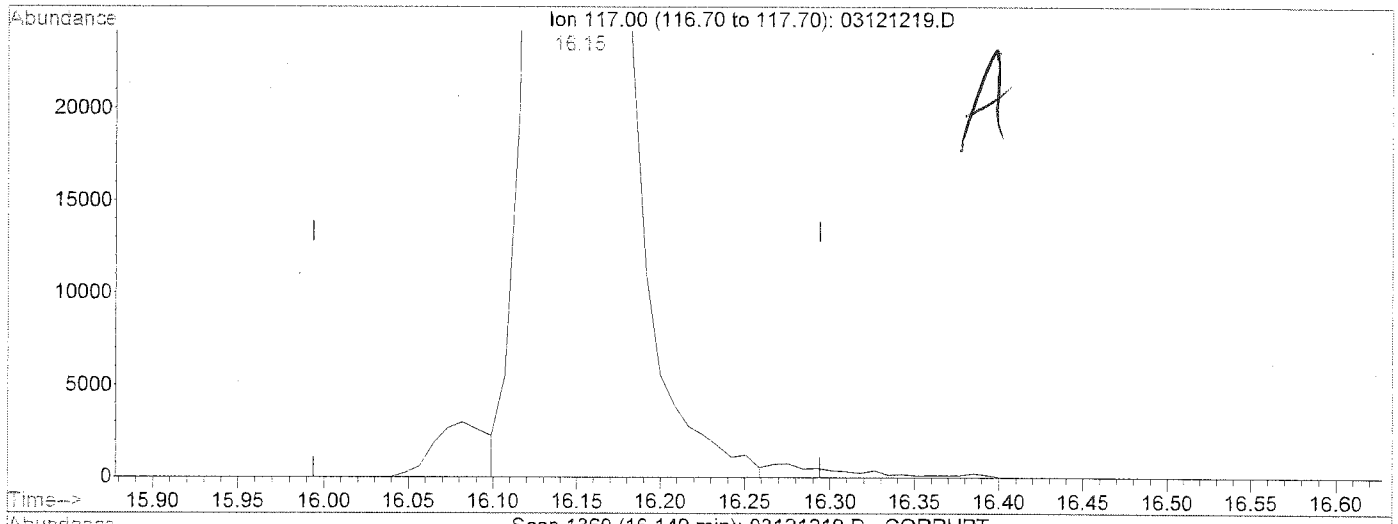
Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

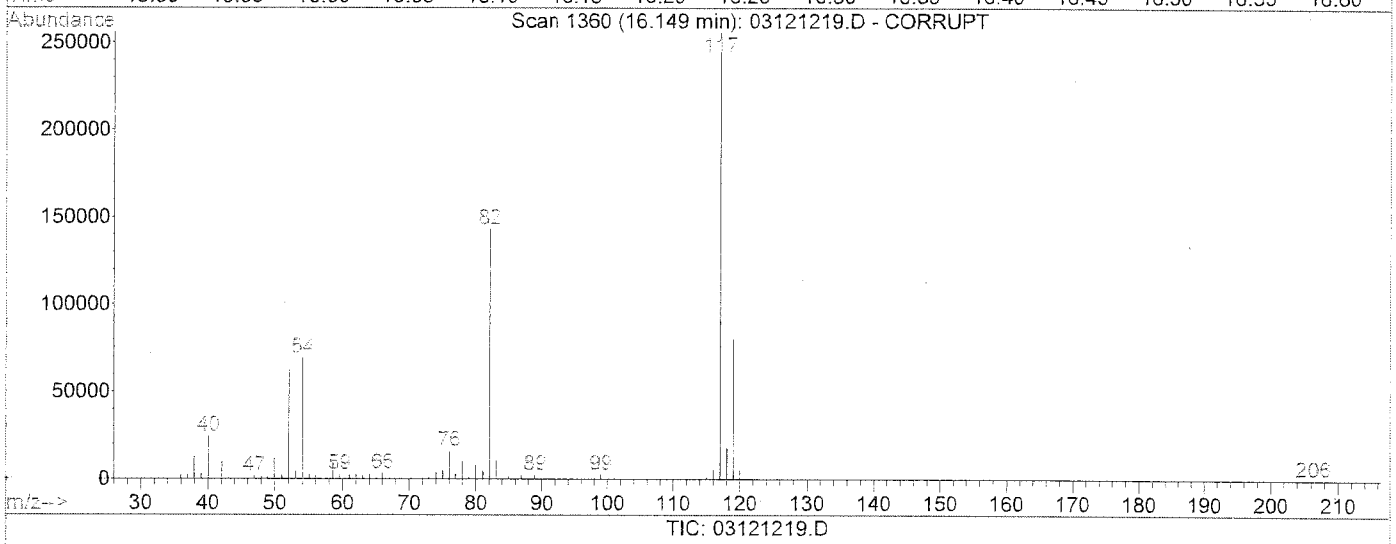
03121219.D 031212.M Wed Mar 14 10:45:29 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121219.D

(52) Chlorobenzene-d5 (I)

16.15min 25.00ug/L m

response 582915

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

M 3/14/12

03121219.D 031212.M Wed Mar 14 10:45:35 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-Call.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	72754	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	448673	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	716558	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	582915m	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	267021	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	279339	25.84 ug/L	~~0.00~~
Spiked Amount 25.000			Recovery	= 103.36%	
50) Toluene-d8 (surr)	14.19	98	794617	24.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.08%	
64) 4-Bromofluorobenzene (surr	17.83	95	293910	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.91	85	21413m	1.04 ug/L	
6) Chloromethane	5.09	50	25022	1.05 ug/L #	60
7) Vinyl Chloride	5.44	62	21516	1.08 ug/L	99
8) 1,3-Butadiene	5.56	54	11270	0.95 ug/L #	81
9) Bromomethane	5.99	94	16187	1.12 ug/L	94
10) Chloroethane	6.18	64	11509	0.98 ug/L #	71
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	14897m	0.89 ug/L	
13) Acetone	7.11	43	7816	2.14 ug/L #	85
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	20847	1.01 ug/L #	91
16) 1,1-Dichloroethene	7.71	96	13239	1.01 ug/L	95
17) Methylene Chloride	7.87	84	17454	1.09 ug/L	95
18) Freon 113	7.97	101	15093	1.04 ug/L	99
19) Carbon Disulfide	8.29	76	35519m	0.99 ug/L	
20) trans-1,2-Dichloroethene	8.74	96	15419	1.03 ug/L	96
21) MTBE	8.86	73	21804	0.97 ug/L	94
22) 1,1-Dichloroethane	9.05	63	28971	1.08 ug/L	97
23) Vinyl Acetate	9.21	43	16328	0.85 ug/L	97
24) n-Hexane	9.56	86	2096	0.82 ug/L #	42
25) 2-Butanone (MEK)	0.00	72	0	N.D. d	
26) Diisopropylether (DIPE)	9.59	45	50411	1.01 ug/L	91
27) cis-1,2-Dichloroethene	9.79	96	13599	1.00 ug/L	98
28) Bromochloromethane	10.01	128	5486	1.00 ug/L	96
29) Chloroform	10.06	83	24901	1.05 ug/L	98
30) 2,2-Dichloropropane	10.16	77	14801	1.05 ug/L	87
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	26126	0.85 ug/L	95
33) Tetrahydrofuran	0.00	72	0	N.D. d	
34) 1,2-Dichloroethane	10.89	62	16208	1.08 ug/L	95
35) 1,1,1-Trichloroethane	11.02	97	19885	1.07 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	17302	0.82 ug/L	89
38) 1,1-Dichloropropene	11.25	75	14809	0.95 ug/L	95
39) Carbon Tetrachloride	11.49	117	16377	1.02 ug/L	98
40) Benzene	11.55	78	43200	1.05 ug/L	98

(#) = qualifier out of range (m) = manual integration
03121219.D 031212.M Wed Mar 14 10:46:14 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

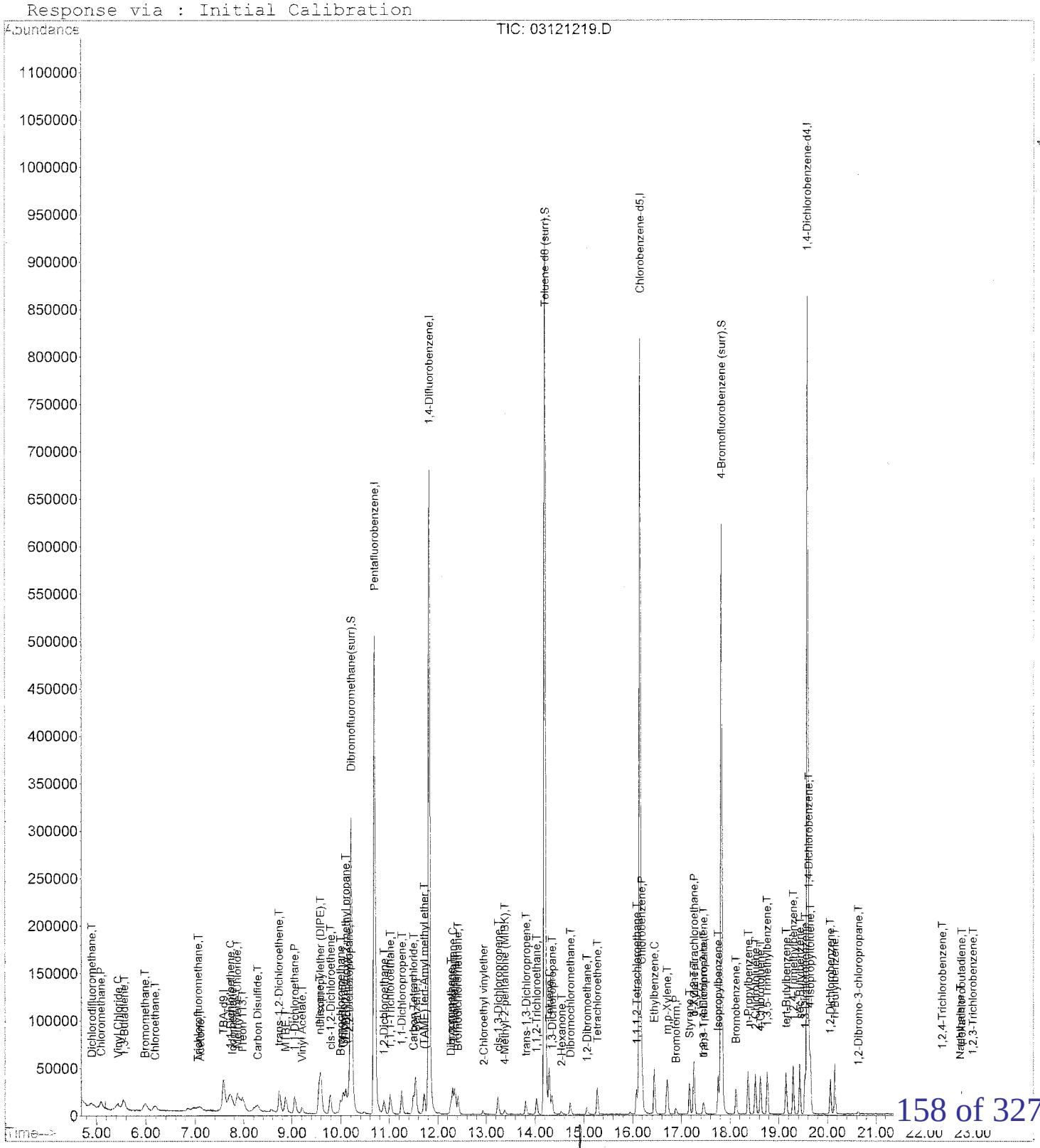
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.26	93	5874	0.98 ug/L		92
42)	1,2-Dichloropropane	12.31	63	11384	0.98 ug/L		91
43)	Trichloroethene	12.36	95	12243	1.01 ug/L		94
44)	Bromodichloromethane	12.42	83	16061	1.03 ug/L		97
45)	2-Chloroethyl vinylether	12.95	63	1878	1.82 ug/L	Deleted	81
46)	cis-1,3-Dichloropropene	13.25	75	12069	0.80 ug/L		96
47)	4-Methyl-2-pentanone (MIBK	13.39	43	5216	0.81 ug/L		97
48)	trans-1,3-Dichloropropene	13.81	75	9214	0.93 ug/L		90
49)	1,1,2-Trichloroethane	14.03	97	7074	0.99 ug/L		91
51)	Toluene	14.29	92	24904	0.98 ug/L		100
53)	1,3-Dichloropropane	14.35	76	11311	0.92 ug/L		96
54)	2-Hexanone	14.54	43	4222	0.91 ug/L	#	77
55)	Dibromochloromethane	14.73	129	8339	0.94 ug/L		94
56)	1,2-Dibromoethane	15.05	107	6938	0.98 ug/L		92
57)	Tetrachloroethene	15.28	164	8471	0.99 ug/L		97
58)	1,1,1,2-Tetrachloroethane	16.08	131	9237	0.96 ug/L		99
59)	Chlorobenzene	16.19	112	29393	1.03 ug/L	#	83
60)	Ethylbenzene	16.44	91	43261	0.96 ug/L		97
61)	m,p-Xylene	16.71	106	15936	0.90 ug/L		99
62)	Styrene	17.16	104	20132	0.84 ug/L		98
63)	o-Xylene	17.26	106	16883	0.96 ug/L		97
66)	Bromoform	16.88	173	4078	0.86 ug/L		95
67)	1,1,2,2-Tetrachloroethane	17.25	83	7870	1.12 ug/L	#	91
68)	1,2,3-Trichloropropane	17.45	110	1904	0.99 ug/L		92
69)	trans-1,4-Dichloro-2-buten	17.46	53	1973	0.82 ug/L		84
70)	Isopropylbenzene	17.76	105	33181	0.86 ug/L		100
71)	Bromobenzene	18.13	156	9105	0.93 ug/L		94
72)	n-Propylbenzene	18.37	91	45516	0.93 ug/L		98
73)	2-Chlorotoluene	18.52	91	29840	0.93 ug/L		100
74)	4-Chlorotoluene	18.62	91	30724	0.95 ug/L		99
75)	1,3,5-Trimethylbenzene	18.76	105	31941	0.90 ug/L		100
76)	tert-Butylbenzene	19.15	119	24066	0.89 ug/L		98
77)	1,2,4-Trimethylbenzene	19.29	105	32905	0.91 ug/L		100
78)	sec-Butylbenzene	19.43	105	41964	0.95 ug/L		98
79)	1,3-Dichlorobenzene	19.54	146	20175	1.04 ug/L		98
80)	1,4-Dichlorobenzene	19.62	146	20497	1.06 ug/L	#	88
81)	4-Isopropyltoluene	19.66	119	35059	0.97 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	15849	0.97 ug/L		97
83)	n-Butylbenzene	20.15	91	31338	0.93 ug/L		98
84)	1,2-Dibromo-3-chloropropan	20.63	75	951	1.02 ug/L		92
85)	1,2,4-Trichlorobenzene	22.37	180	8942	0.84 ug/L		99
86)	Naphthalene	22.72	128	9240	0.65 ug/L	Deleted	98
87)	Hexachlorobutadiene	22.76	225	6178	1.14 ug/L		97
88)	1,2,3-Trichlorobenzene	22.99	180	6725	0.81 ug/L		100

(#) = qualifier out of range (m) = manual integration
03121219.D 031212.M Wed Mar 14 10:46:14 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121219.D Vial: 7
Acq On : 12 Mar 2012 6:06 pm Operator: ms
Sample : 1.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

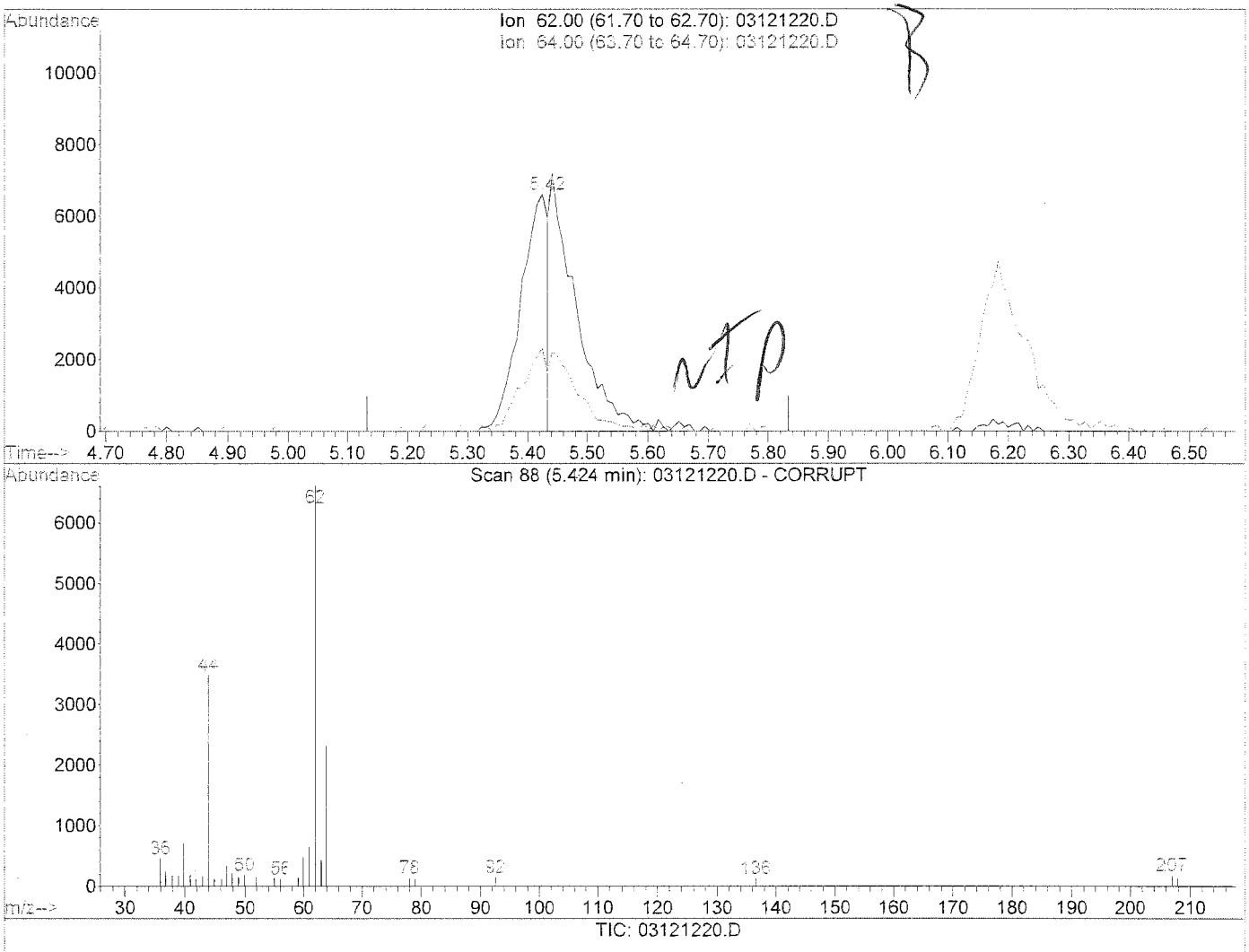
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



TIC: 03121220.D

(7) Vinyl Chloride (C)

5.42min 1.01ug/L

response 20878

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	32.60
0.00	0.00	0.00
0.00	0.00	0.00

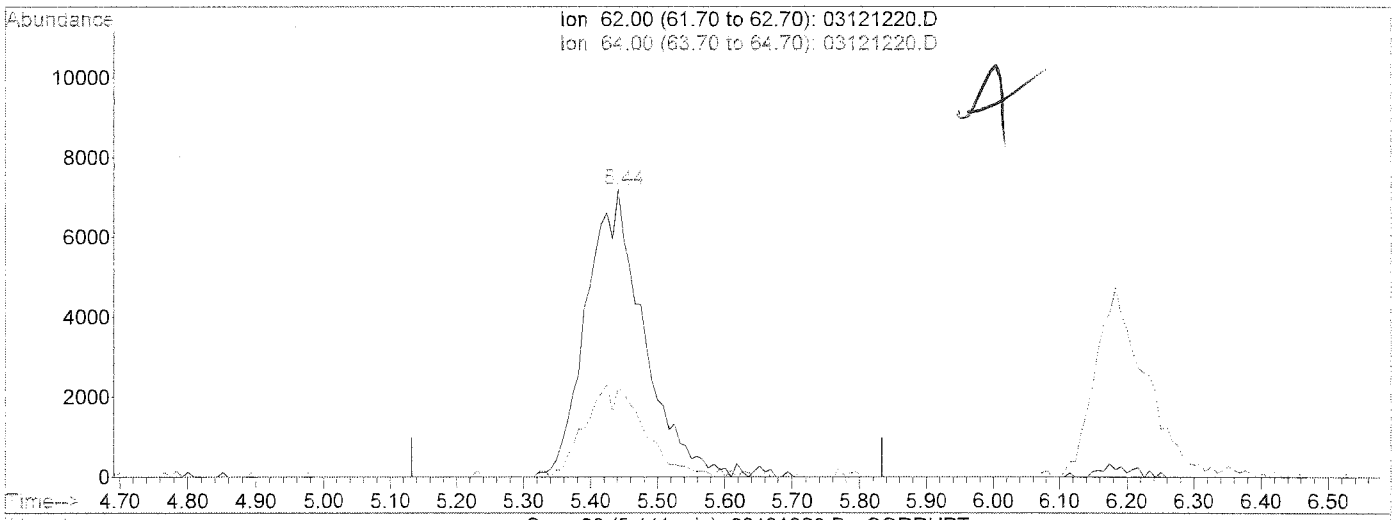
3/14/12

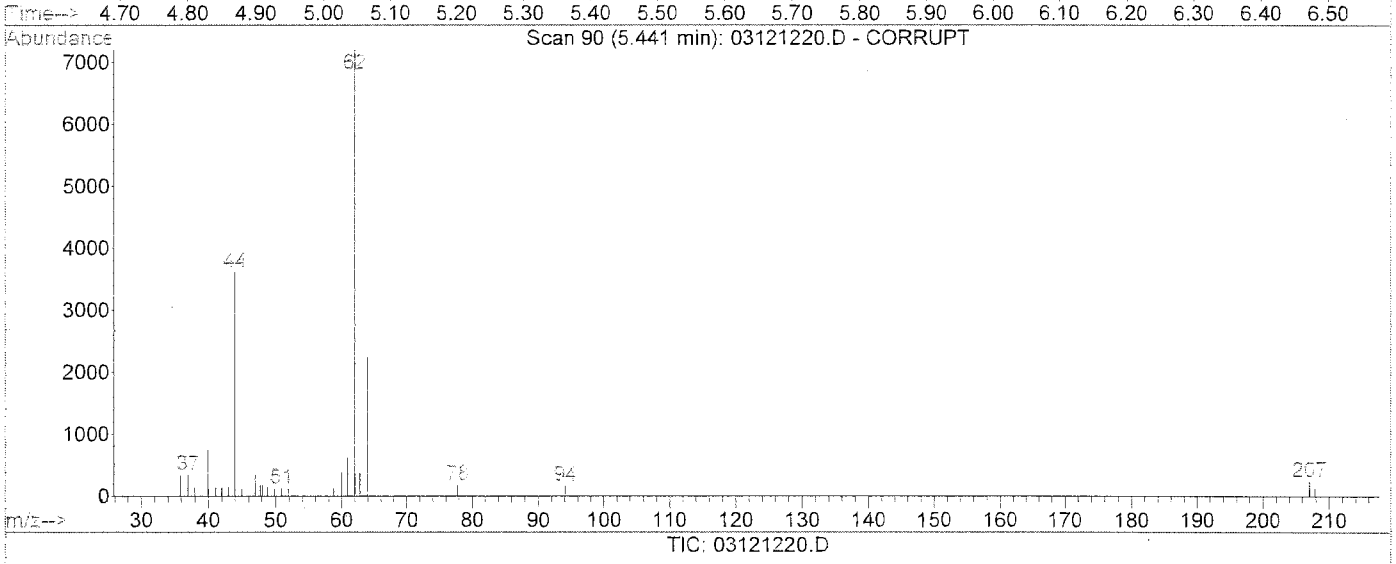
03121220.D 031212.M Wed Mar 14 10:46:27 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(7) Vinyl Chloride (C)

5.44min 2.06ug/L m

response 42603

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	15.98#
0.00	0.00	0.00
0.00	0.00	0.00

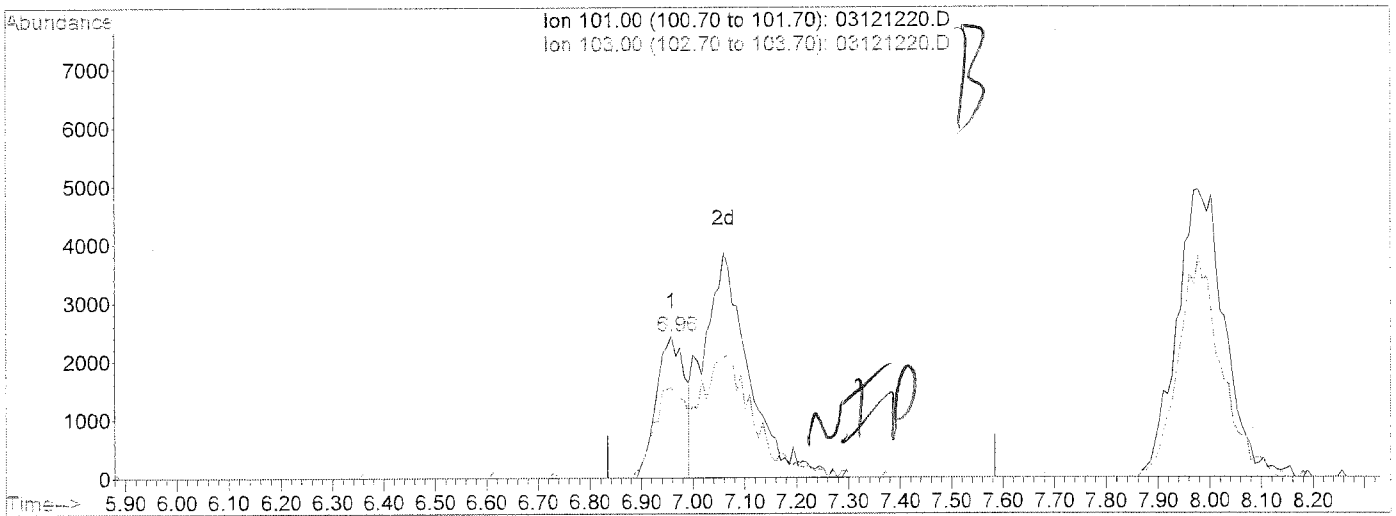
3/14/12

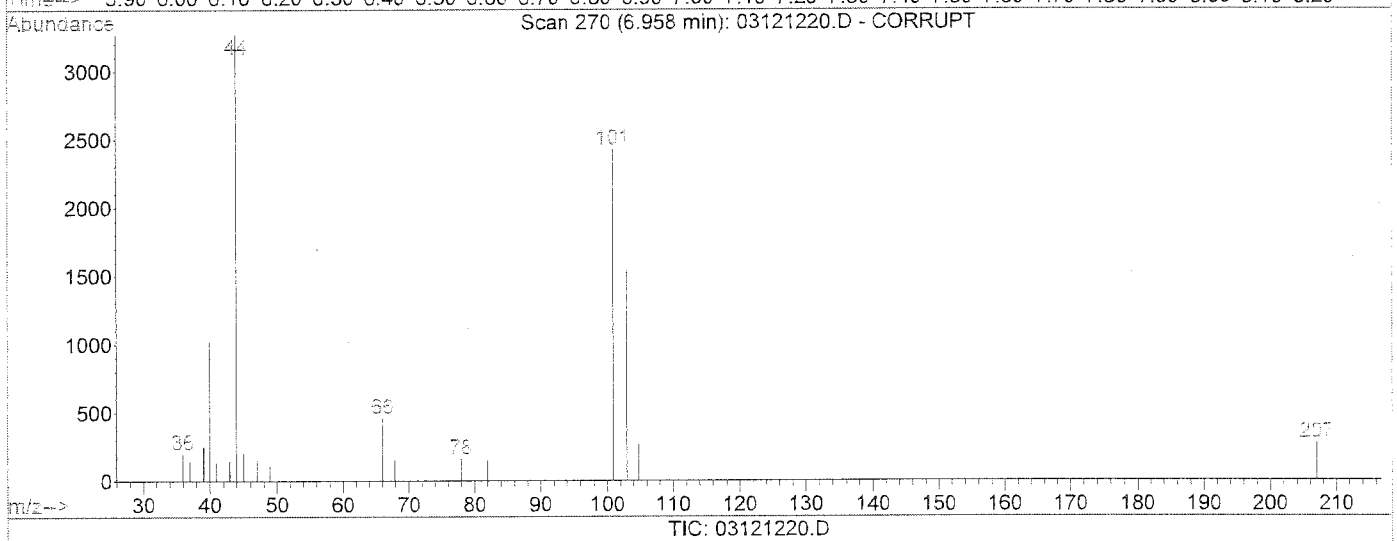
03121220.D 031212.M Wed Mar 14 10:46:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

6.96min 0.54ug/L

response 9313

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.52
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

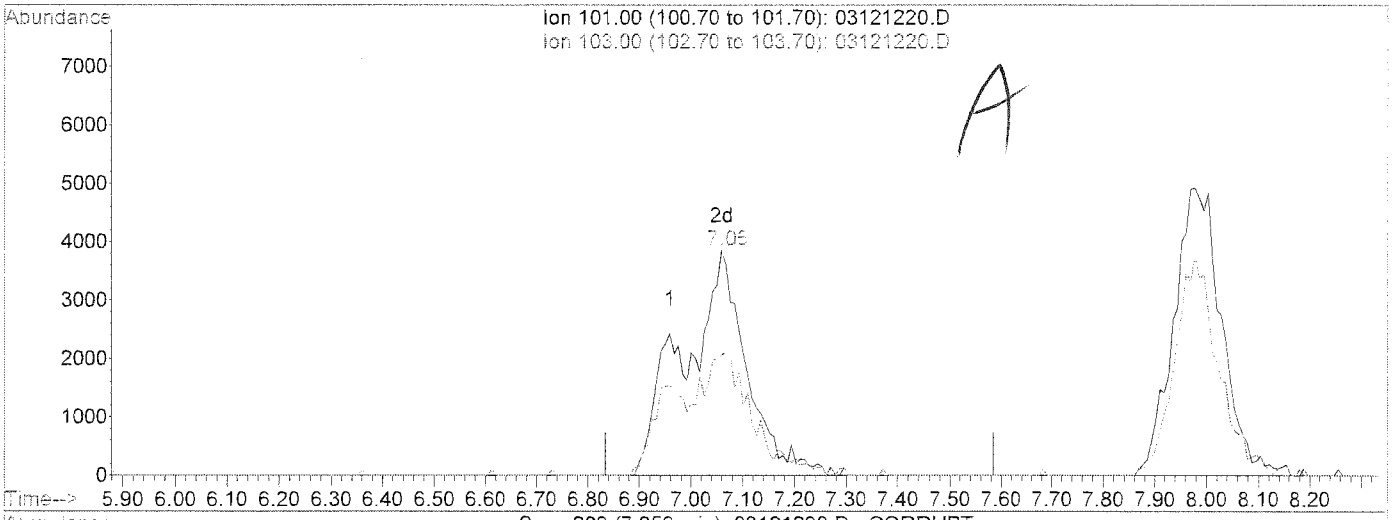
M 3/14/12

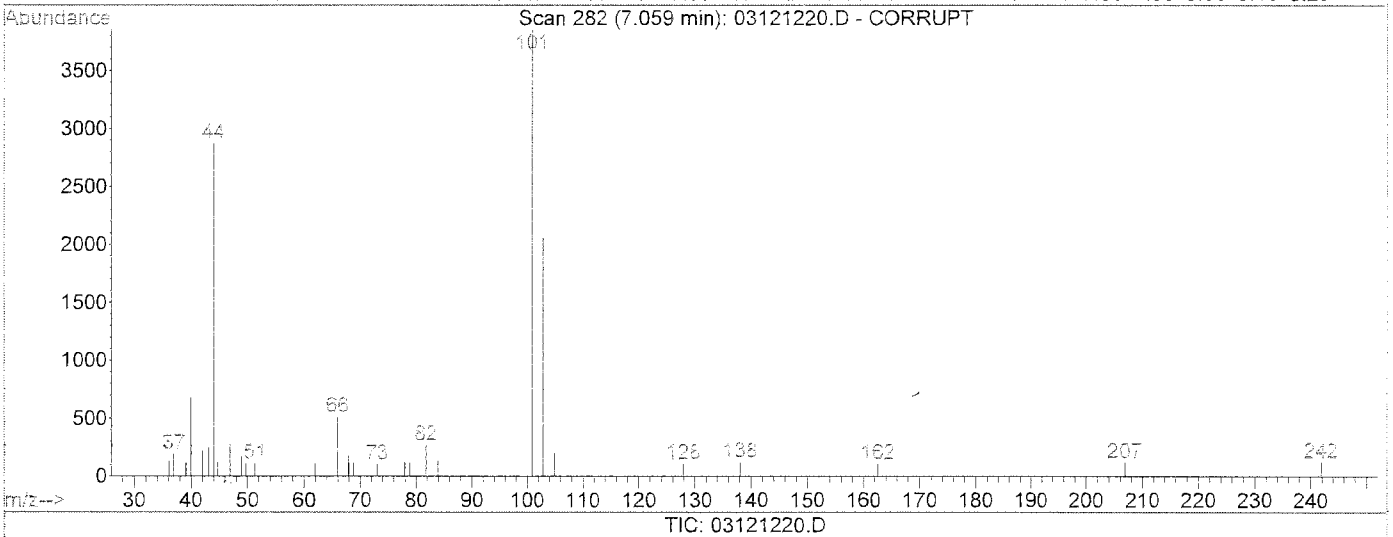
03121220.D 031212.M Wed Mar 14 10:46:41 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121220.D

(12) Trichlorofluoromethane (T)

7.06min 1.87ug/L m

response 32387

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	53.40
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121220.D 031212.M Wed Mar 14 10:46:48 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Re-calc.

Quant Method : C:\HPCHEM\1\..\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	73284	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463215	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	748251	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	591326	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	280551	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	285480	25.57 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.28%	
50) Toluene-d8 (surr)	14.20	98	825419	24.64 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.56%	
64) 4-Bromofluorobenzene (surr	17.82	95	306781	25.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.32%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.68	59	6904	10.80 ug/L #	96
5) Dichlorodifluoromethane	4.89	85	44634	2.09 ug/L	94
6) Chloromethane	5.10	50	49042	2.00 ug/L	95
7) Vinyl Chloride	5.44	62	42603m	2.06 ug/L	
8) 1,3-Butadiene	5.53	54	25257	2.07 ug/L	95
9) Bromomethane	5.97	94	30776	2.05 ug/L	96
10) Chloroethane	6.18	64	24677	2.03 ug/L	96
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.06	101	32387m	1.87 ug/L	
13) Acetone	7.10	43	10992	2.91 ug/L	90
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.76	142	42797	2.00 ug/L #	90
16) 1,1-Dichloroethene	7.70	96	26400	1.96 ug/L	96
17) Methylene Chloride	7.87	84	34592	2.10 ug/L	96
18) Freon 113	7.98	101	31500	2.10 ug/L #	86
19) Carbon Disulfide	8.27	76	74087	2.00 ug/L #	72
20) trans-1,2-Dichloroethene	8.74	96	29846	1.94 ug/L	96
21) MTBE	8.86	73	43609	1.88 ug/L	98
22) 1,1-Dichloroethane	9.06	63	58392	2.10 ug/L	98
23) Vinyl Acetate	9.21	43	35371	1.79 ug/L	99
24) n-Hexane	9.56	86	5443	2.06 ug/L	97
25) 2-Butanone (MEK)	9.60	72	1928	2.27 ug/L #	59
26) Diisopropylether (DIPE)	9.60	45	107601	2.10 ug/L	95
27) cis-1,2-Dichloroethene	9.79	96	27566	1.97 ug/L	95
28) Bromochloromethane	9.99	128	11223	1.97 ug/L	91
29) Chloroform	10.05	83	51115	2.09 ug/L	98
30) 2,2-Dichloropropane	10.16	77	31201	2.15 ug/L	92
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	61470	1.93 ug/L	100
33) Tetrahydrofuran	10.47	72	1201	2.03 ug/L #	90
34) 1,2-Dichloroethane	10.89	62	32111	2.08 ug/L	98
35) 1,1,1-Trichloroethane	11.02	97	39359	2.05 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	38967	1.79 ug/L	95
38) 1,1-Dichloropropene	11.25	75	32257	1.99 ug/L	98
39) Carbon Tetrachloride	11.49	117	35655	2.12 ug/L	98
40) Benzene	11.54	78	90359	2.10 ug/L	98

(#) = qualifier out of range (m) = manual integration

03121220.D 031212.M Wed Mar 14 10:47:03 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

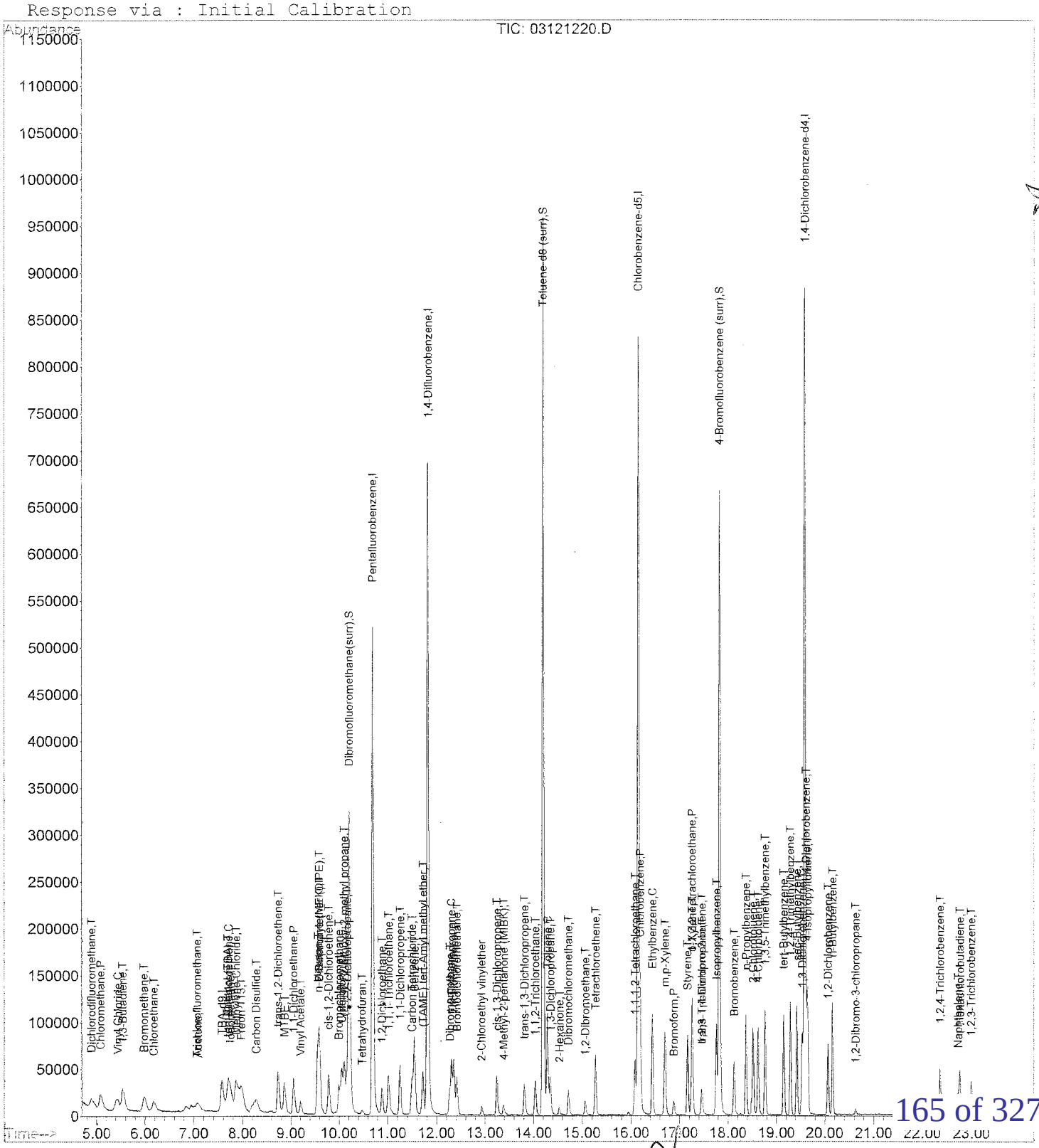
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Dibromomethane	12.27	93	12797	2.05 ug/L		95
42)	1,2-Dichloropropane	12.31	63	25473	2.09 ug/L		97
43)	Trichloroethene	12.36	95	26577	2.10 ug/L		95
44)	Bromodichloromethane	12.43	83	33328	2.04 ug/L	#	99
45)	2-Chloroethyl vinylether	12.93	63	4247	2.38 ug/L		90
46)	cis-1,3-Dichloropropene	13.25	75	28087	1.79 ug/L		95
47)	4-Methyl-2-pentanone (MIBK	13.38	43	11797	1.75 ug/L		95
48)	trans-1,3-Dichloropropene	13.81	75	22365	1.85 ug/L		94
49)	1,1,2-Trichloroethane	14.03	97	15824	2.11 ug/L		97
51)	Toluene	14.29	92	52633	1.98 ug/L		96
53)	1,3-Dichloropropane	14.35	76	26016	2.09 ug/L		98
54)	2-Hexanone	14.53	43	8624	1.82 ug/L	#	84
55)	Dibromochloromethane	14.73	129	18478	2.06 ug/L		92
56)	1,2-Dibromoethane	15.07	107	13631	1.90 ug/L		99
57)	Tetrachloroethene	15.28	164	18208	2.09 ug/L		98
58)	1,1,1,2-Tetrachloroethane	16.09	131	18704	1.92 ug/L		98
59)	Chlorobenzene	16.19	112	60680	2.09 ug/L		90
60)	Ethylbenzene	16.45	91	92262	2.02 ug/L		99
61)	m,p-Xylene	16.71	106	36201	2.01 ug/L		98
62)	Styrene	17.16	104	50675	1.93 ug/L		98
63)	o-Xylene	17.26	106	37362	2.09 ug/L		94
66)	Bromoform	16.89	173	8990	1.81 ug/L		96
67)	1,1,2,2-Tetrachloroethane	17.26	83	15876	2.14 ug/L		97
68)	1,2,3-Trichloropropane	17.46	110	4139	2.05 ug/L		93
69)	trans-1,4-Dichloro-2-buten	17.47	53	4535	1.80 ug/L		90
70)	Isopropylbenzene	17.76	105	80166	1.99 ug/L		97
71)	Bromobenzene	18.12	156	19895	1.93 ug/L		99
72)	n-Propylbenzene	18.37	91	103781	2.01 ug/L		99
73)	2-Chlorotoluene	18.51	91	69000	2.04 ug/L		98
74)	4-Chlorotoluene	18.62	91	70875	2.09 ug/L		99
75)	1,3,5-Trimethylbenzene	18.77	105	75711	2.02 ug/L		100
76)	tert-Butylbenzene	19.14	119	56518	1.99 ug/L		98
77)	1,2,4-Trimethylbenzene	19.29	105	76586	2.01 ug/L		98
78)	sec-Butylbenzene	19.43	105	95626	2.05 ug/L		99
79)	1,3-Dichlorobenzene	19.54	146	43036	2.11 ug/L		99
80)	1,4-Dichlorobenzene	19.62	146	43207	2.12 ug/L		97
81)	4-Isopropyltoluene	19.66	119	78136	2.06 ug/L		98
82)	1,2-Dichlorobenzene	20.06	146	34046	1.99 ug/L		99
83)	n-Butylbenzene	20.16	91	74103	2.08 ug/L		99
84)	1,2-Dibromo-3-chloropropan	20.63	75	1790	1.83 ug/L		93
85)	1,2,4-Trichlorobenzene	22.36	180	20855	1.86 ug/L		97
86)	Naphthalene	22.72	128	22332	1.49 ug/L		97
87)	Hexachlorobutadiene	22.76	225	12273	2.15 ug/L		97
88)	1,2,3-Trichlorobenzene	22.99	180	15807	1.82 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121220.D Vial: 8
Acq On : 12 Mar 2012 6:37 pm Operator: ms
Sample : 2.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:46 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

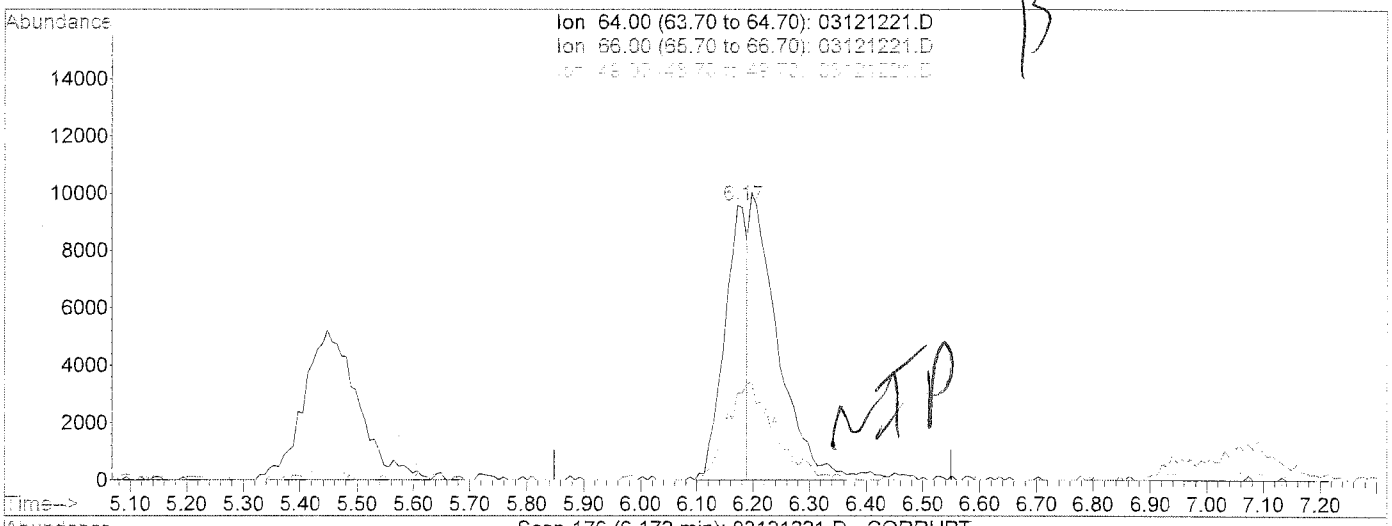


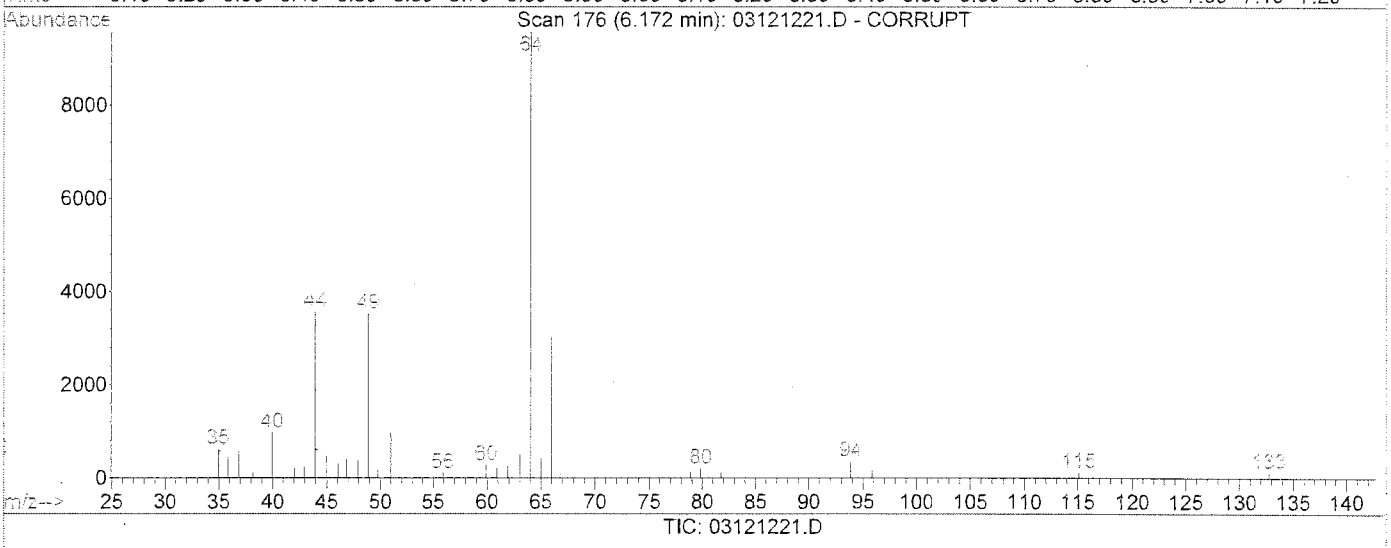
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





TIC: 03121221.D

(10) Chloroethane (T)

6.17min 2.23ug/L

response 27088

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	69.91#
49.00	32.00	75.57#
0.00	0.00	0.00

✓3/14/12

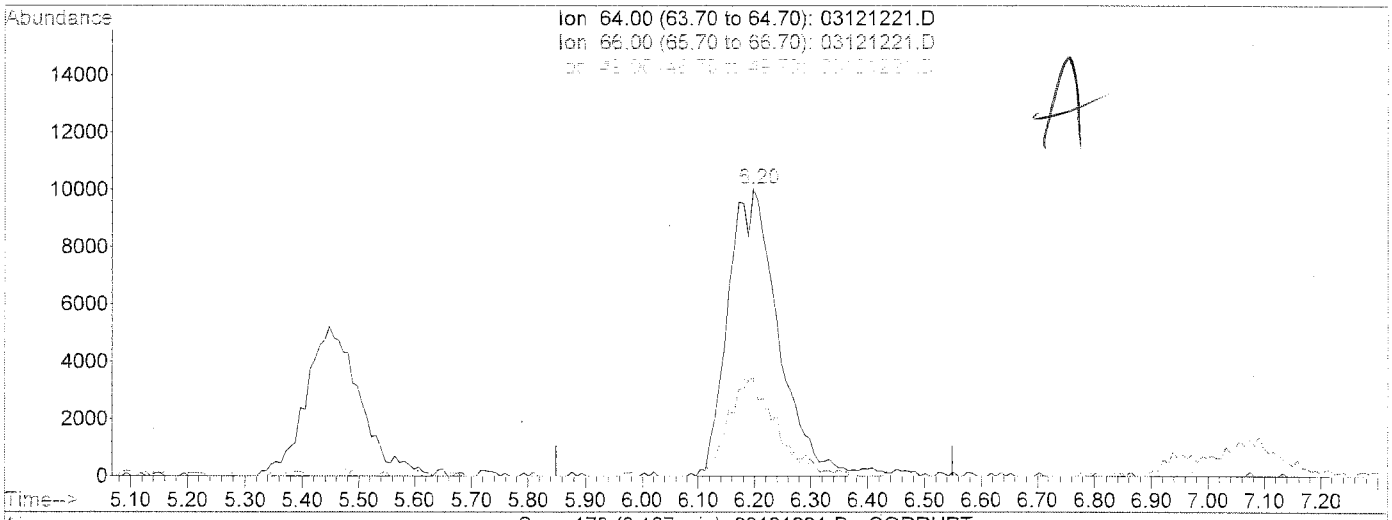
M 4/14/12

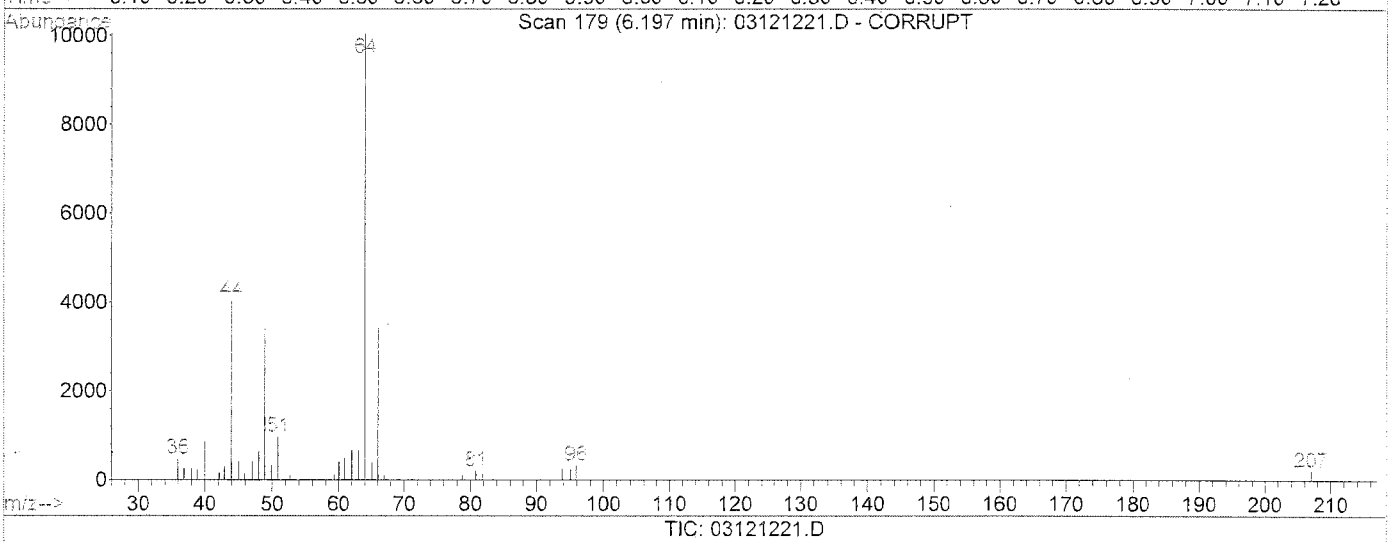
03121221.D 031212.M Wed Mar 14 10:47:34 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121221.D

(10) Chloroethane (T)

6.20min 5.09ug/L m

response 61778

Ion	Exp%	Act%
64.00	100	100
66.00	31.70	30.65
49.00	32.00	33.14
0.00	0.00	0.00

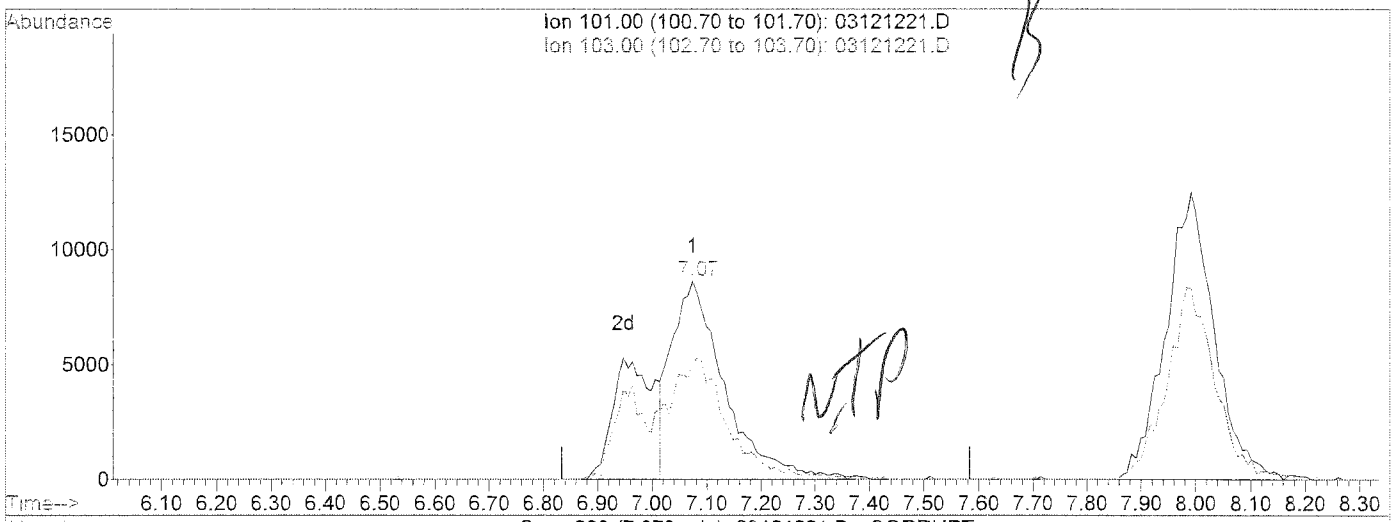
03/14/12

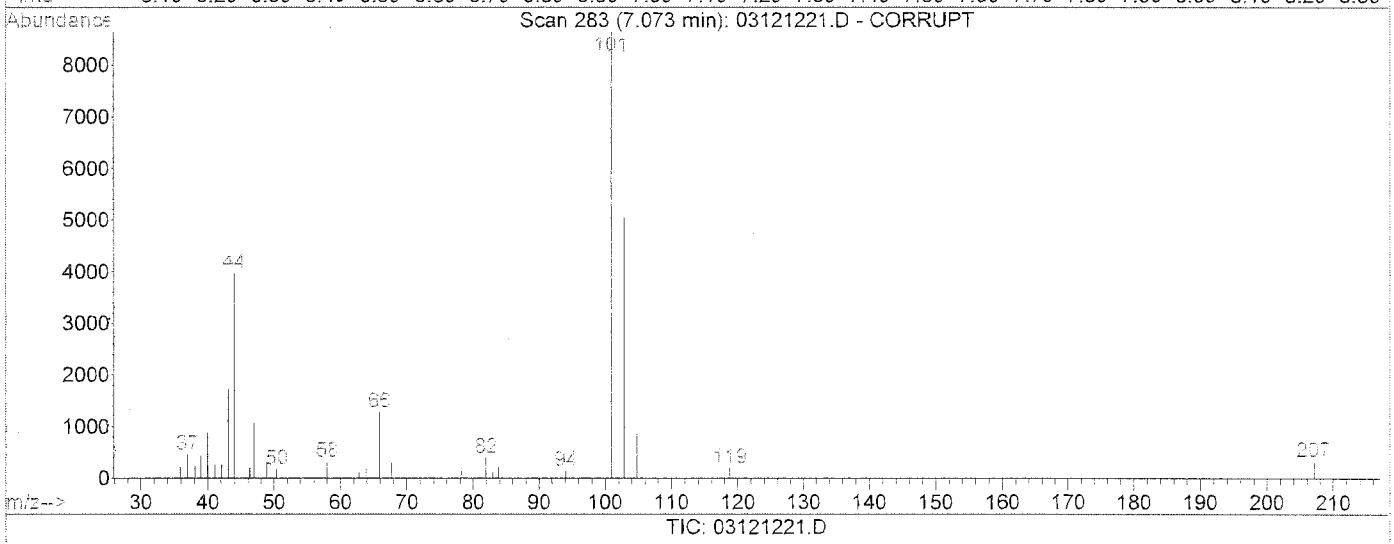
03121221.D 031212.M Wed Mar 14 10:47:45 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.07min 3.33ug/L

response 57654

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	57.48
0.00	0.00	0.00
0.00	0.00	0.00

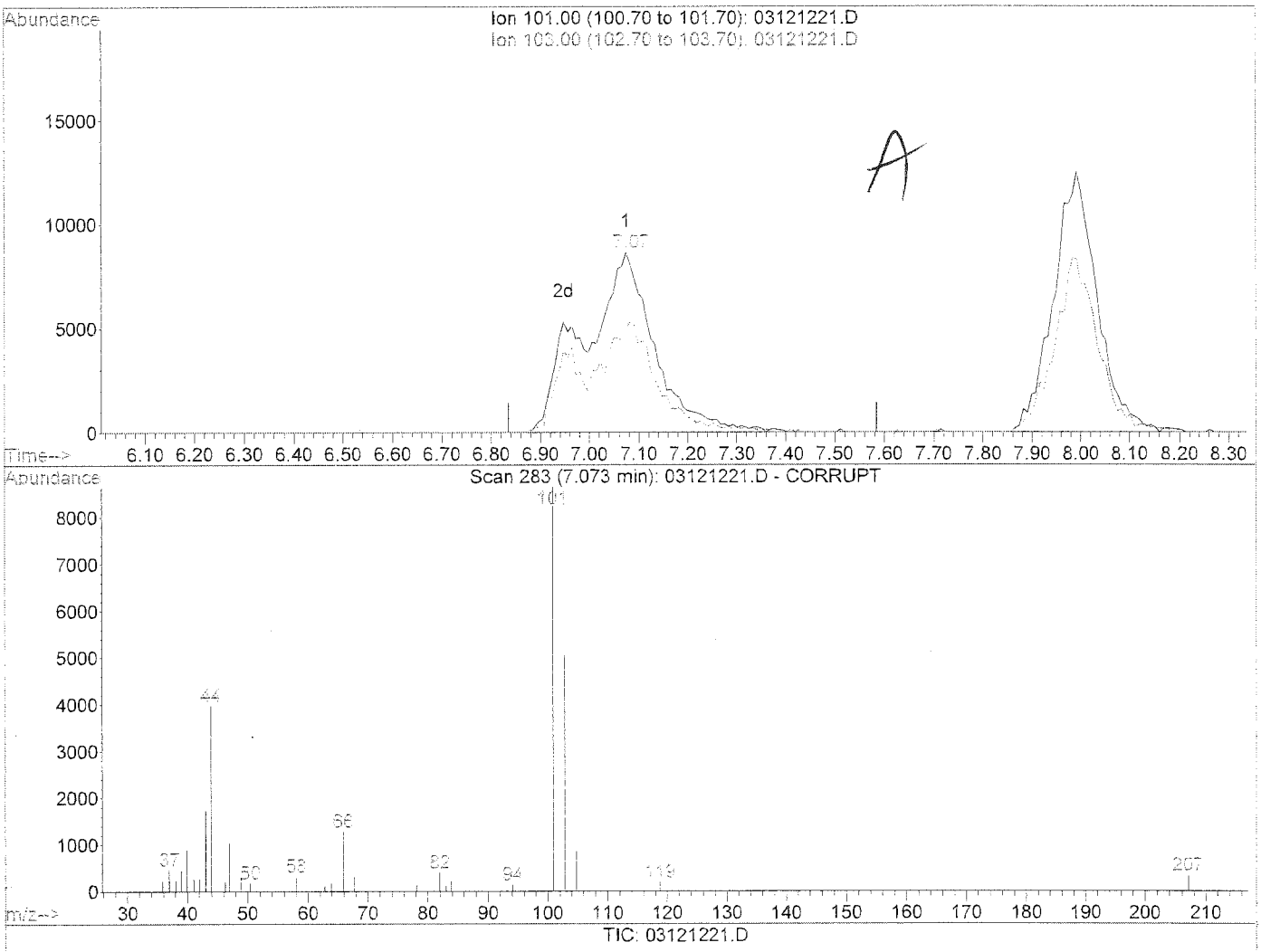
3/14/12

03121221.D 031212.M Wed Mar 14 10:47:50 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:47 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 4.93ug/L m

response 85242

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	58.23
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121221.D 031212.M Wed Mar 14 10:47:58 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Re-calc, 3/14/12 NTP 4/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	76456	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463012	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	766030	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	620178	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	292085	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	291596	26.13 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.52%	
50) Toluene-d8 (surr)	14.19	98	857389	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
64) 4-Bromofluorobenzene (surr	17.82	95	317771	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.08%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	1624	33.97 ug/L Dilution	92
3) tert-Butanol (TBA)	7.69	59	16460	24.67 ug/L #	95
5) Dichlorodifluoromethane	4.91	85	110753	5.19 ug/L #	64
6) Chloromethane	5.09	50	133575	5.45 ug/L	99
7) Vinyl Chloride	5.46	62	107498	5.21 ug/L	99
8) 1,3-Butadiene	5.56	54	62405	5.11 ug/L	94
9) Bromomethane	5.99	94	77153	5.15 ug/L	99
10) Chloroethane	6.20	64	61778m	5.09 ug/L	
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	85242m	4.93 ug/L	
13) Acetone	7.12	43	20732	5.50 ug/L	93
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	106266	4.96 ug/L #	70
16) 1,1-Dichloroethene	7.71	96	68803	5.10 ug/L	99
17) Methylene Chloride	7.87	84	83429	5.06 ug/L	96
18) Freon 113	7.99	101	77474	5.17 ug/L	100
19) Carbon Disulfide	8.30	76	185994	5.03 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	77181	5.01 ug/L	99
21) MTBE	8.87	73	114445	4.93 ug/L	99
22) 1,1-Dichloroethane	9.05	63	143370	5.16 ug/L	98
23) Vinyl Acetate	9.21	43	95240	4.81 ug/L	99
24) n-Hexane	9.55	86	14318	5.42 ug/L #	88
25) 2-Butanone (MEK)	9.59	72	4227	4.98 ug/L #	99
26) Diisopropylether (DIPE)	9.59	45	283282	5.52 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	74121	5.30 ug/L	100
28) Bromochloromethane	9.99	128	30183	5.31 ug/L	98
29) Chloroform	10.05	83	131665	5.39 ug/L	99
30) 2,2-Dichloropropane	10.16	77	78511	5.41 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	167086	5.25 ug/L	99
33) Tetrahydrofuran	10.48	72	2388	4.04 ug/L #	80
34) 1,2-Dichloroethane	10.89	62	81294	5.27 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	101670	5.30 ug/L	97
36) (TAME) tert-Amyl methyl et	11.72	73	108456	4.97 ug/L	97
38) 1,1-Dichloropropene	11.25	75	85300	5.14 ug/L	96
39) Carbon Tetrachloride	11.49	117	87189	5.07 ug/L	100
40) Benzene	11.54	78	227850	5.17 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

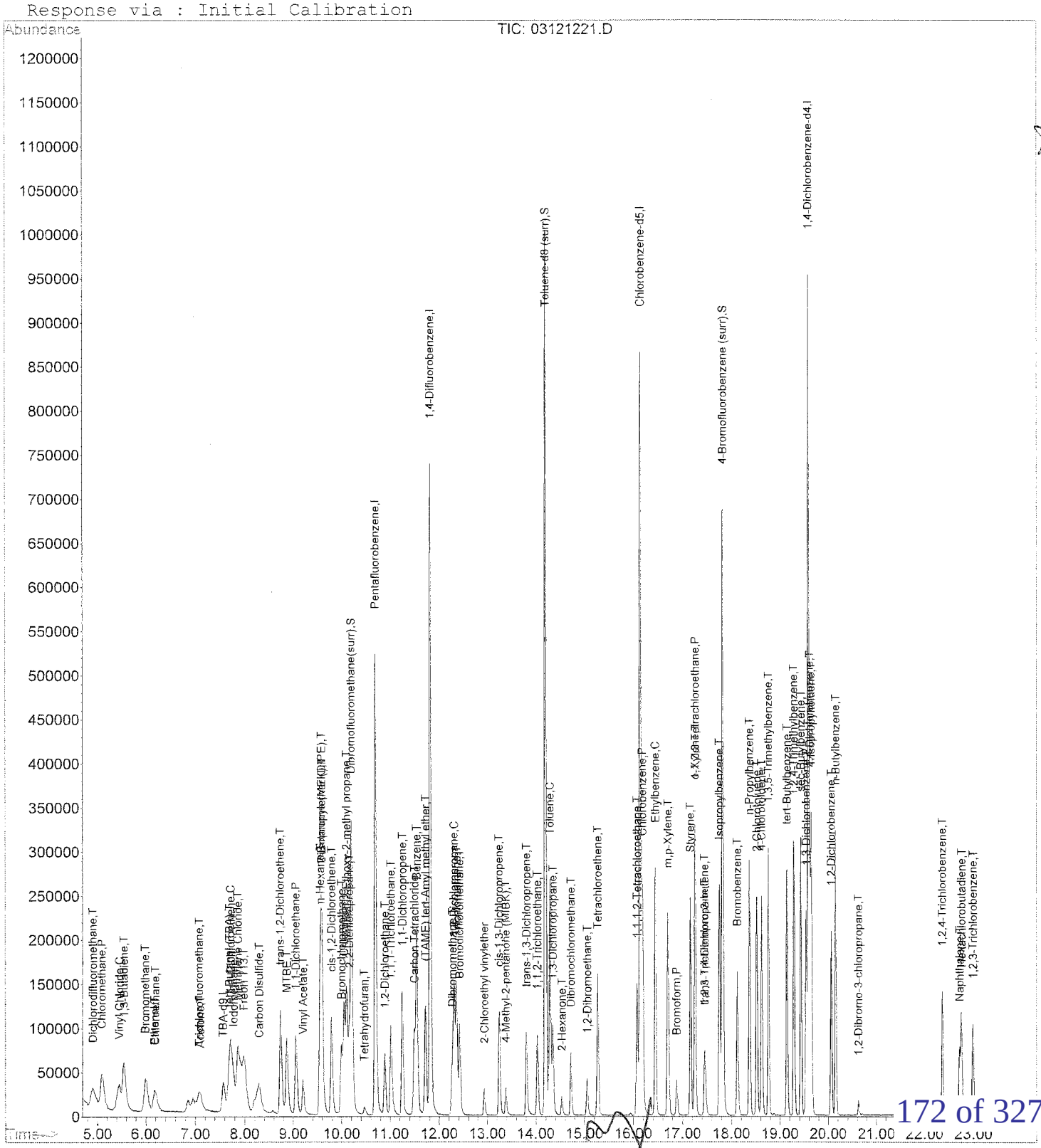
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	32809	5.13 ug/L	95
42) 1,2-Dichloropropane	12.31	63	66874	5.37 ug/L	99
43) Trichloroethene	12.36	95	66318	5.12 ug/L	99
44) Bromodichloromethane	12.42	83	87395	5.23 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	13618	4.58 ug/L	97
46) cis-1,3-Dichloropropene	13.25	75	81492	5.07 ug/L	96
47) 4-Methyl-2-pentanone (MIBK	13.39	43	33121	4.79 ug/L	99
48) trans-1,3-Dichloropropene	13.81	75	64880	4.82 ug/L	98
49) 1,1,2-Trichloroethane	14.03	97	38043	4.96 ug/L	97
51) Toluene	14.29	92	140038	5.14 ug/L	99
53) 1,3-Dichloropropane	14.35	76	67621	5.17 ug/L	98
54) 2-Hexanone	14.53	43	21791	4.39 ug/L	93
55) Dibromochloromethane	14.73	129	45499	4.84 ug/L	95
56) 1,2-Dibromoethane	15.06	107	36882	4.90 ug/L	99
57) Tetrachloroethene	15.27	164	45975	5.04 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.08	131	52677	5.15 ug/L	97
59) Chlorobenzene	16.19	112	153626	5.04 ug/L	96
60) Ethylbenzene	16.44	91	251471	5.25 ug/L	98
61) m,p-Xylene	16.71	106	96619	5.11 ug/L	98
62) Styrene	17.16	104	146562	5.15 ug/L	99
63) o-Xylene	17.26	106	100123	5.35 ug/L	99
66) Bromoform	16.88	173	24730	4.78 ug/L	96
67) 1,1,2,2-Tetrachloroethane	17.25	83	38632	5.01 ug/L	97
68) 1,2,3-Trichloropropane	17.45	110	10077	4.80 ug/L	97
69) trans-1,4-Dichloro-2-buten	17.46	53	12132	4.62 ug/L	97
70) Isopropylbenzene	17.76	105	221366	5.28 ug/L	99
71) Bromobenzene	18.12	156	52617	4.91 ug/L	95
72) n-Propylbenzene	18.37	91	285262	5.30 ug/L	100
73) 2-Chlorotoluene	18.52	91	182947	5.20 ug/L	99
74) 4-Chlorotoluene	18.62	91	185869	5.25 ug/L	100
75) 1,3,5-Trimethylbenzene	18.76	105	209539	5.37 ug/L	99
76) tert-Butylbenzene	19.15	119	158073	5.34 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	213299	5.39 ug/L	99
78) sec-Butylbenzene	19.43	105	261719	5.39 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	108274	5.09 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	106754	5.02 ug/L	98
81) 4-Isopropyltoluene	19.66	119	210465	5.33 ug/L	99
82) 1,2-Dichlorobenzene	20.06	146	92430	5.20 ug/L	100
83) n-Butylbenzene	20.15	91	200959	5.43 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	4941	4.86 ug/L	99
85) 1,2,4-Trichlorobenzene	22.37	180	59825	5.13 ug/L	99
86) Naphthalene	22.72	128	72945	4.66 ug/L	99
87) Hexachlorobutadiene	22.76	225	30626	5.15 ug/L	97
88) 1,2,3-Trichlorobenzene	22.99	180	47537	5.27 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121221.D 031212.M Wed Mar 14 10:48:12 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121221.D Vial: 9
Acq On : 12 Mar 2012 7:09 pm Operator: ms
Sample : 5.0 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

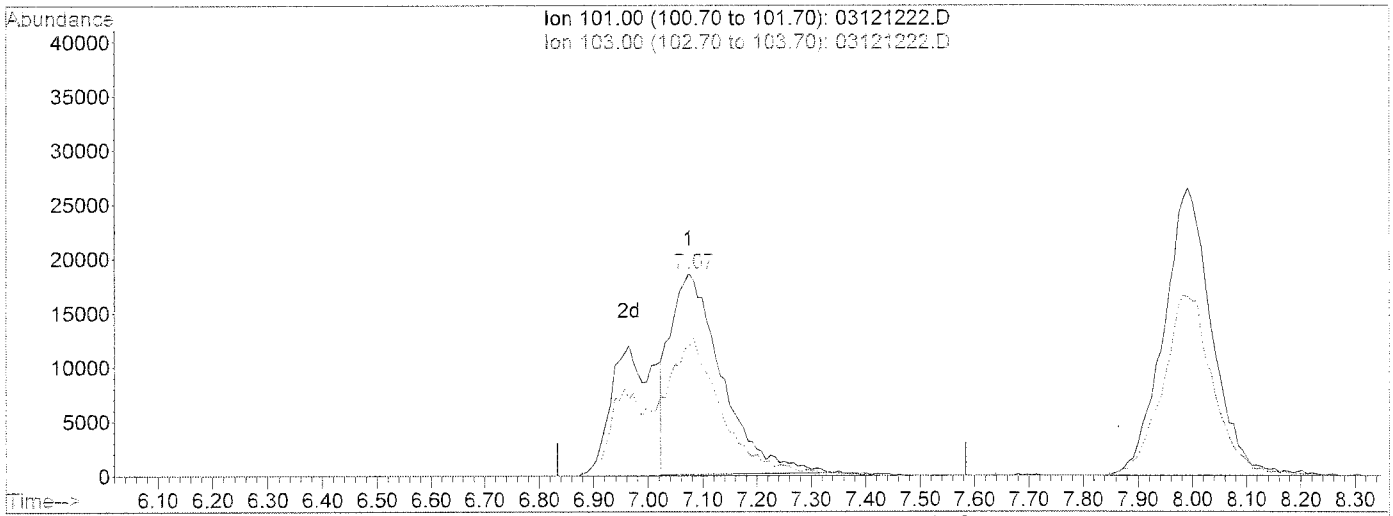
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

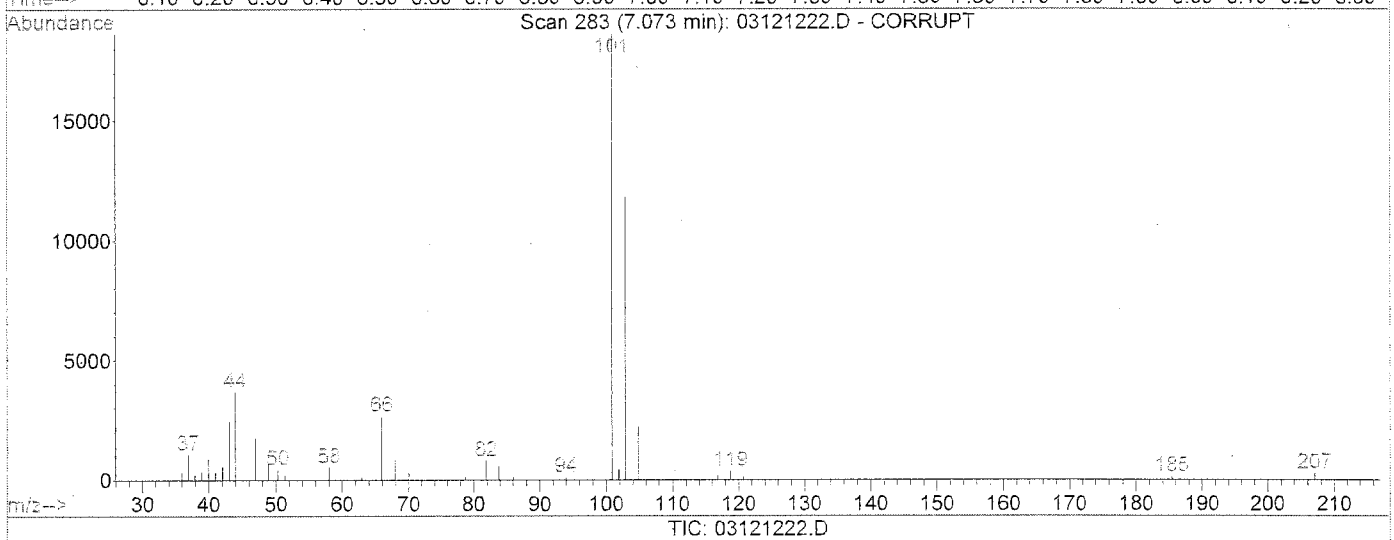


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 6.73ug/L

response 122363

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.83
0.00	0.00	0.00
0.00	0.00	0.00

✓3/14/12

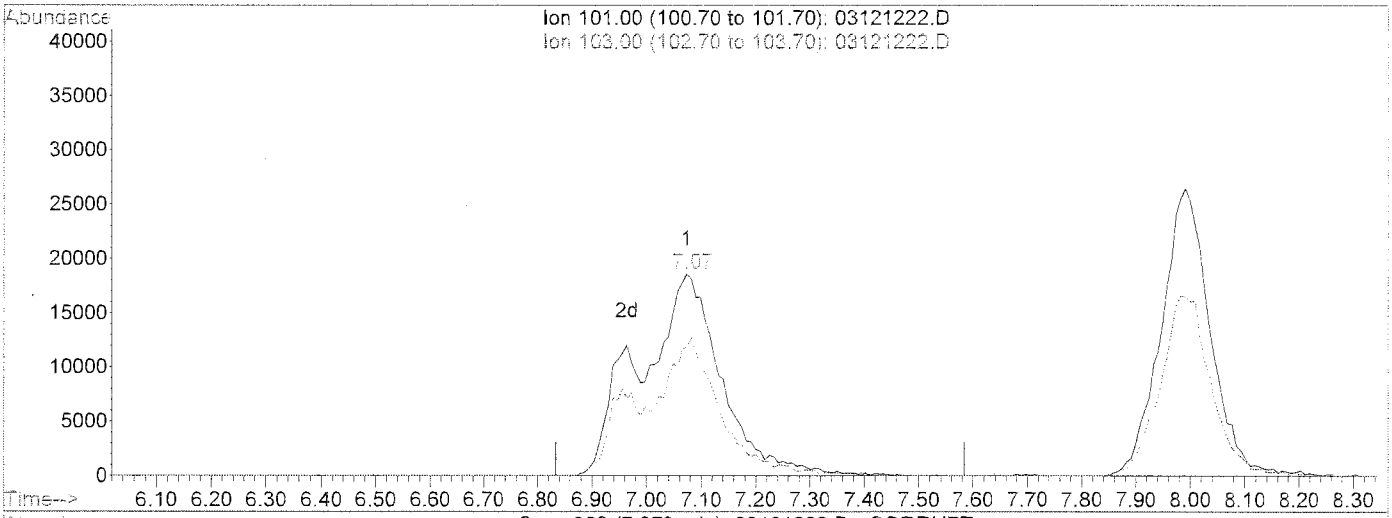
3/14/12

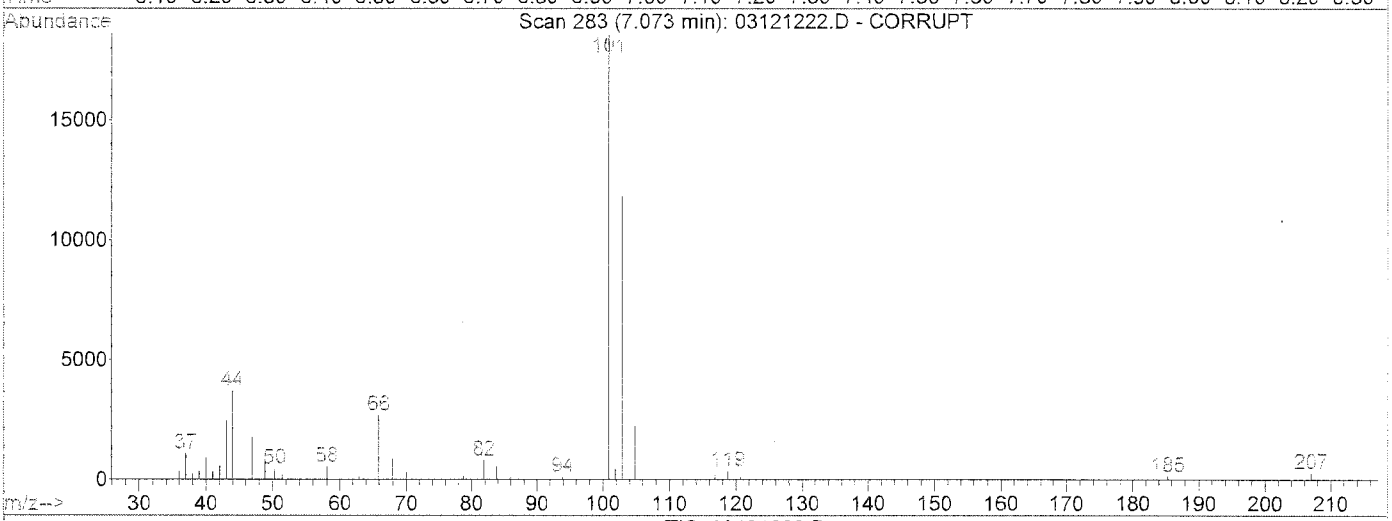
03121222.D 031212.M Wed Mar 14 10:48:25 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121222.D

(12) Trichlorofluoromethane (T)

7.07min 10.54ug/L m

response 191739

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.43
0.00	0.00	0.00
0.00	0.00	0.00

✓ 3/14/12

03121222.D 031212.M Wed Mar 14 10:48:34 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	79757	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	486849	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	775452	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	625538	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	295737	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	296755	25.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.16%	
50) Toluene-d8 (surr)	14.19	98	855889	24.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.60%	
64) 4-Bromofluorobenzene (surr	17.82	95	323444	25.25 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.00%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.69	59	34389	49.42 ug/L	99
5) Dichlorodifluoromethane	4.91	85	233414	10.41 ug/L	99
6) Chloromethane	5.10	50	272897	10.60 ug/L	100
7) Vinyl Chloride	5.46	62	225890	10.40 ug/L	99
8) 1,3-Butadiene	5.56	54	134123	10.44 ug/L	99
9) Bromomethane	5.99	94	161442	10.25 ug/L	100
10) Chloroethane	6.19	64	130470	10.22 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.07	101	191739m	10.54 ug/L	
13) Acetone	7.12	43	41674	10.51 ug/L #	68
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.77	142	229150	10.18 ug/L	100
16) 1,1-Dichloroethene	7.72	96	140650	9.92 ug/L	99
17) Methylene Chloride	7.87	84	172845	9.98 ug/L	98
18) Freon 113	7.99	101	163942	10.39 ug/L	100
19) Carbon Disulfide	8.29	76	407260	10.47 ug/L #	90
20) trans-1,2-Dichloroethene	8.74	96	170398	10.52 ug/L	100
21) MTBE	8.87	73	258623	10.60 ug/L	100
22) 1,1-Dichloroethane	9.06	63	310679	10.64 ug/L	99
23) Vinyl Acetate	9.21	43	223071	10.72 ug/L	98
24) n-Hexane	9.55	86	29312	10.55 ug/L #	84
25) 2-Butanone (MEK)	9.59	72	9452	10.59 ug/L #	71
26) Diisopropylether (DIPE)	9.59	45	576872	10.69 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	157998	10.74 ug/L	98
28) Bromochloromethane	10.00	128	64587	10.81 ug/L	98
29) Chloroform	10.05	83	270666	10.53 ug/L	98
30) 2,2-Dichloropropane	10.16	77	165885	10.87 ug/L	97
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	360908	10.78 ug/L	99
33) Tetrahydrofuran	10.48	72	5986	9.63 ug/L #	83
34) 1,2-Dichloroethane	10.89	62	165680	10.22 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	207576	10.29 ug/L	99
36) (TAME) tert-Amyl methyl et	11.72	73	231521	10.09 ug/L	98
38) 1,1-Dichloropropene	11.25	75	184301	10.96 ug/L	99
39) Carbon Tetrachloride	11.49	117	182844	10.51 ug/L	99
40) Benzene	11.54	78	471097	10.56 ug/L	99

(#) = qualifier out of range (m) = manual integration

03121222.D 031212.M Wed Mar 14 10:48:51 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

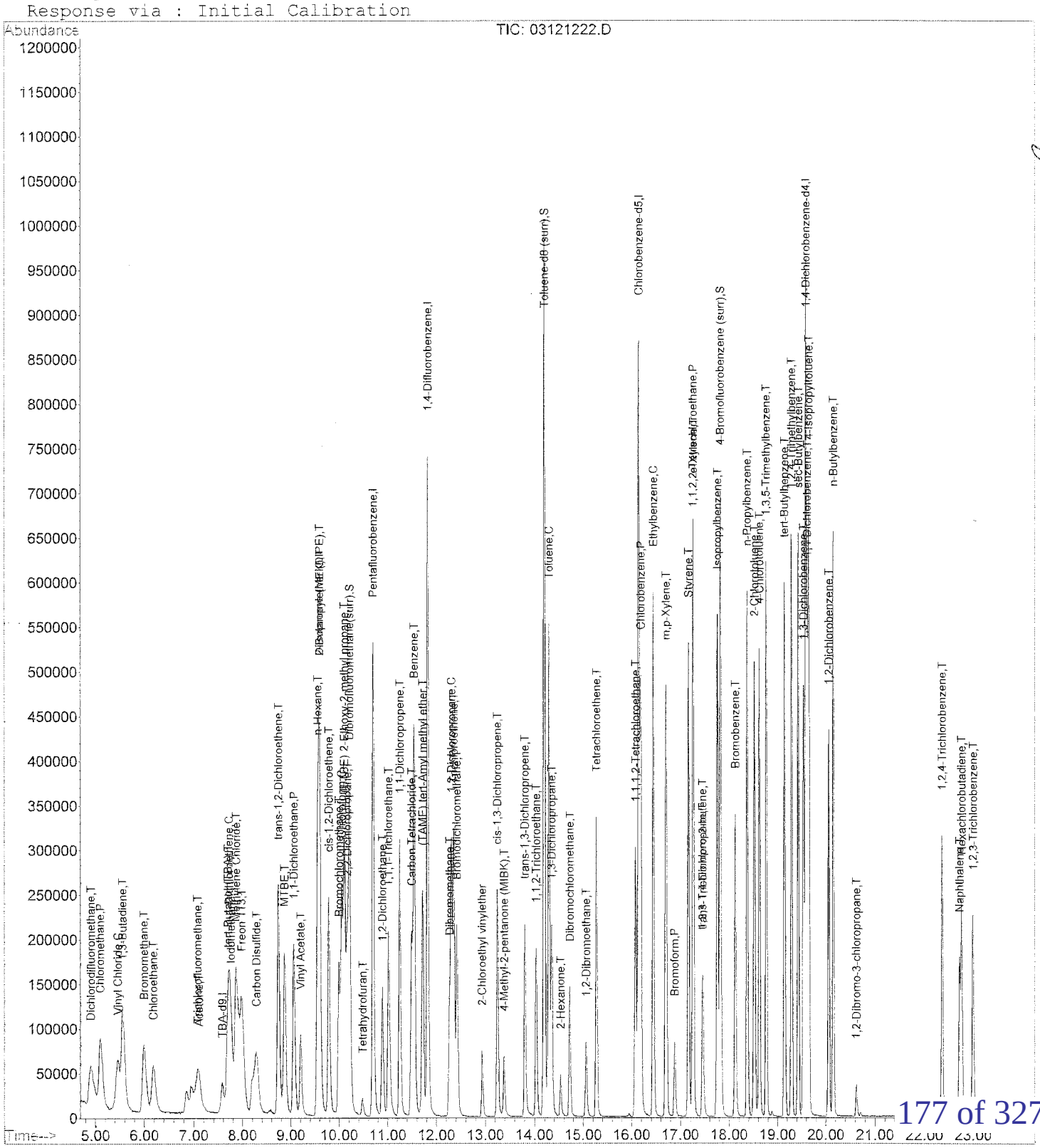
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	69674	10.76 ug/L	97
42) 1,2-Dichloropropane	12.31	63	136171	10.80 ug/L	98
43) Trichloroethene	12.36	95	134365	10.26 ug/L	98
44) Bromodichloromethane	12.42	83	178295	10.53 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	34649	9.48 ug/L	99
46) cis-1,3-Dichloropropene	13.25	75	176827	10.87 ug/L	98
47) 4-Methyl-2-pentanone (MIBK	13.38	43	73057	10.45 ug/L	95
48) trans-1,3-Dichloropropene	13.81	75	142466	10.18 ug/L	98
49) 1,1,2-Trichloroethane	14.03	97	80867	10.42 ug/L	98
51) Toluene	14.29	92	296309	10.74 ug/L	100
53) 1,3-Dichloropropane	14.35	76	137744	10.44 ug/L	98
54) 2-Hexanone	14.53	43	47778	9.55 ug/L	95
55) Dibromochloromethane	14.73	129	98380	10.38 ug/L	99
56) 1,2-Dibromoethane	15.06	107	80793	10.64 ug/L	98
57) Tetrachloroethene	15.27	164	96745	10.52 ug/L	99
58) 1,1,1,2-Tetrachloroethane	16.08	131	108882	10.55 ug/L	99
59) Chlorobenzene	16.19	112	320124	10.42 ug/L	99
60) Ethylbenzene	16.44	91	540567	11.19 ug/L	99
61) m,p-Xylene	16.71	106	211195	11.08 ug/L	100
62) Styrene	17.16	104	322967	11.12 ug/L	99
63) o-Xylene	17.26	106	204818	10.84 ug/L	98
66) Bromoform	16.88	173	53397	10.19 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	79706	10.21 ug/L	98
68) 1,2,3-Trichloropropane	17.46	110	21328	10.04 ug/L	96
69) trans-1,4-Dichloro-2-buten	17.46	53	27863	10.47 ug/L	97
70) Isopropylbenzene	17.76	105	484809	11.41 ug/L	99
71) Bromobenzene	18.12	156	113815	10.49 ug/L	99
72) n-Propylbenzene	18.37	91	610210	11.21 ug/L	100
73) 2-Chlorotoluene	18.52	91	383349	10.75 ug/L	100
74) 4-Chlorotoluene	18.62	91	392324	10.95 ug/L	100
75) 1,3,5-Trimethylbenzene	18.76	105	434465	11.00 ug/L	99
76) tert-Butylbenzene	19.14	119	339794	11.34 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	453994	11.32 ug/L	99
78) sec-Butylbenzene	19.43	105	550181	11.20 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	225183	10.46 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	223446	10.38 ug/L	99
81) 4-Isopropyltoluene	19.65	119	440014	11.00 ug/L	100
82) 1,2-Dichlorobenzene	20.06	146	192267	10.67 ug/L	98
83) n-Butylbenzene	20.15	91	426760	11.38 ug/L	100
84) 1,2-Dibromo-3-chloropropan	20.62	75	10602	10.31 ug/L	98
85) 1,2,4-Trichlorobenzene	22.36	180	135268	11.45 ug/L	99
86) Naphthalene	22.71	128	178395	11.27 ug/L	99
87) Hexachlorobutadiene	22.76	225	64556	10.72 ug/L	99
88) 1,2,3-Trichlorobenzene	22.99	180	105963	11.59 ug/L	100

(#) = qualifier out of range (m) = manual integration
03121222.D 031212.M Wed Mar 14 10:48:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121222.D Vial: 10
Acq On : 12 Mar 2012 7:40 pm Operator: ms
Sample : 10 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: 031212.RES

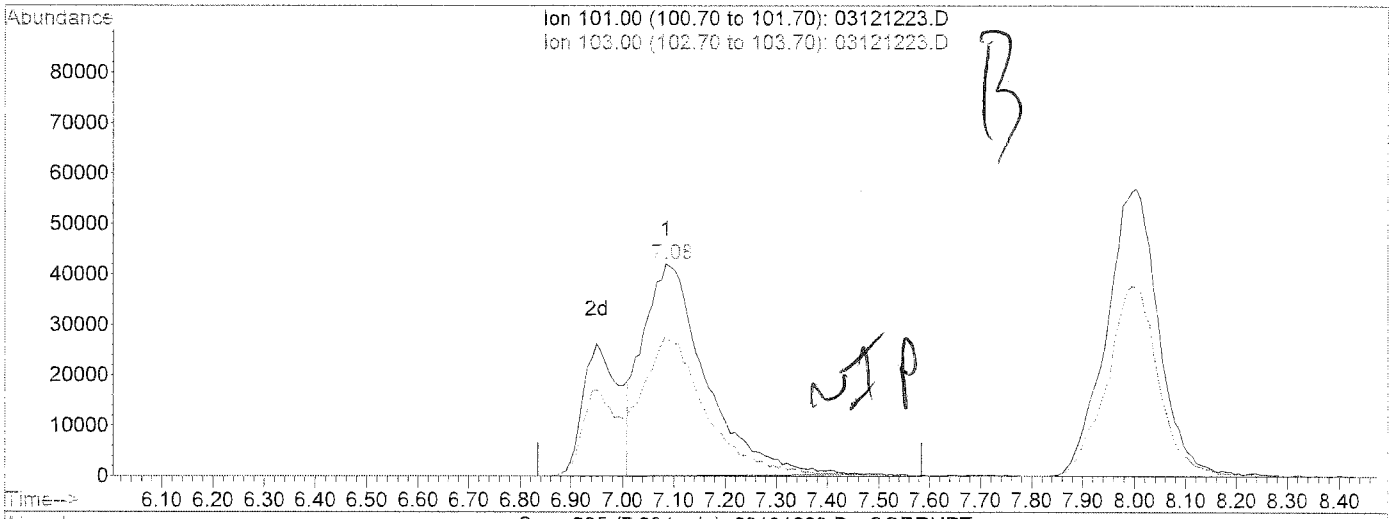
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

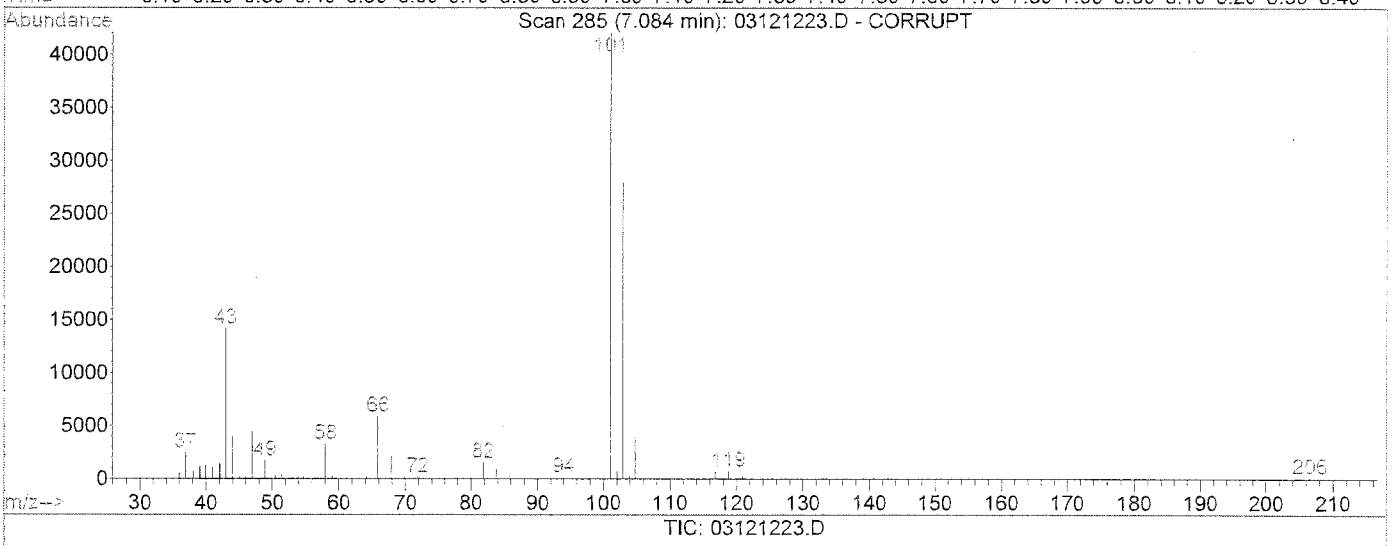


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

7.08min 19.58ug/L

response 360529

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.63
0.00	0.00	0.00
0.00	0.00	0.00

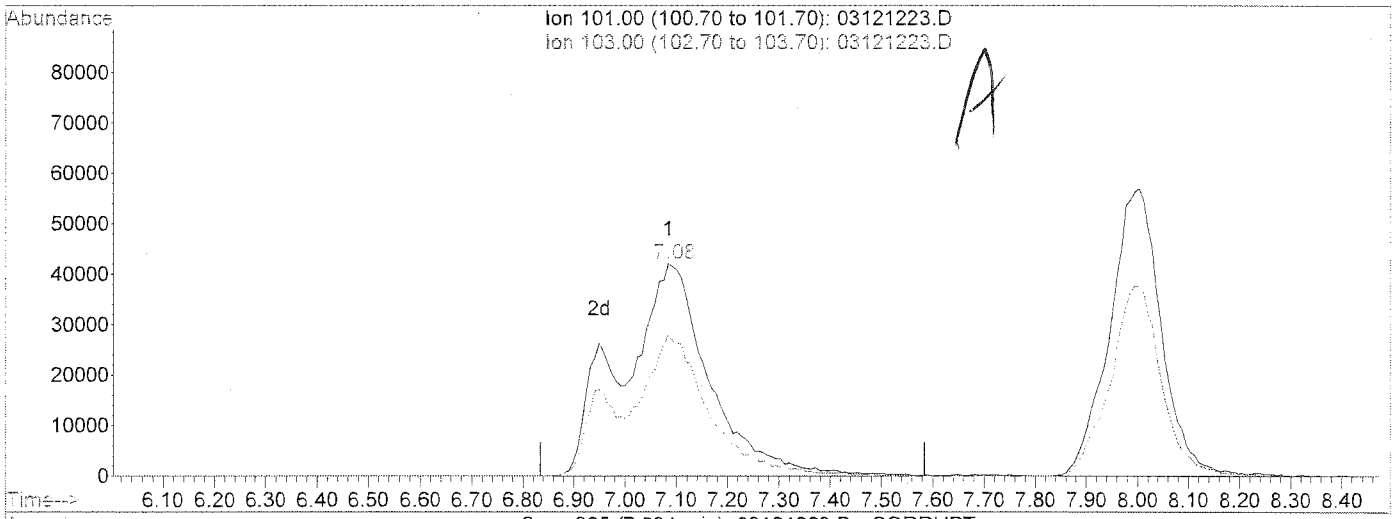
3/14/12

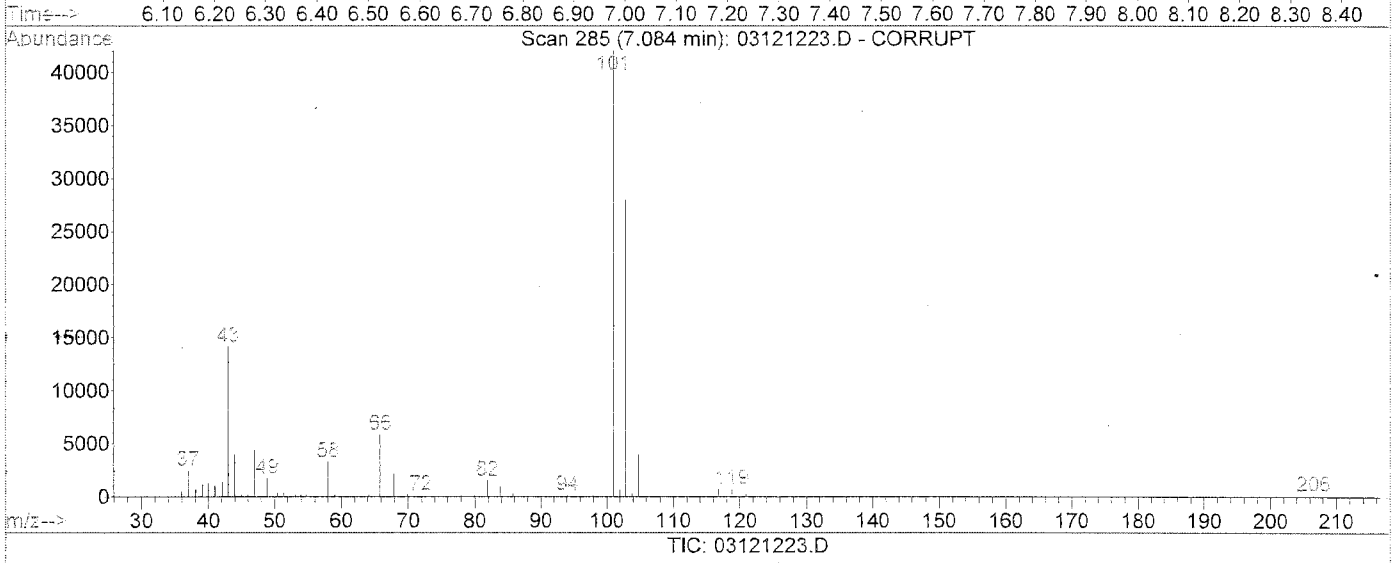
03121223.D 031212.M Wed Mar 14 10:49:01 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121223.D

(12) Trichlorofluoromethane (T)

✓ 3/14/12

7.08min 26.86ug/L m

response 494455

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.43
0.00	0.00	0.00
0.00	0.00	0.00

ML 3/14/12

03121223.D 031212.M Wed Mar 14 10:49:15 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-Calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	80167	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	492791	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	798415	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	647464	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	305368	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	282508	23.79 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.16%	
50) Toluene-d8 (surr)	14.19	98	892210	24.96 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.84%	
64) 4-Bromofluorobenzene (surr	17.82	95	336662	25.39 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.56%	
Target Compounds					Qvalue
2) Ethanol	6.18	45	10390	207.29 ug/L	100
3) tert-Butanol (TBA)	7.68	59	89818	128.40 ug/L	100
5) Dichlorodifluoromethane	4.90	85	569775	25.10 ug/L	100
6) Chloromethane	5.13	50	651846	25.01 ug/L	100
7) Vinyl Chloride	5.48	62	564408	25.68 ug/L	100
8) 1,3-Butadiene	5.55	54	335852	25.83 ug/L	100
9) Bromomethane	6.01	94	379783	23.83 ug/L	100
10) Chloroethane	6.20	64	322361	24.94 ug/L	100
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.08	101	494455m	26.86 ug/L	
13) Acetone	7.11	43	90791	22.62 ug/L	100
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.78	142	562578	24.70 ug/L	100
16) 1,1-Dichloroethene	7.72	96	357567	24.91 ug/L	100
17) Methylene Chloride	7.87	84	408422	23.29 ug/L	100
18) Freon 113	8.00	101	398046	24.93 ug/L	100
19) Carbon Disulfide	8.30	76	982895	24.97 ug/L	100
20) trans-1,2-Dichloroethene	8.74	96	415053	25.31 ug/L	100
21) MTBE	8.87	73	633555	25.64 ug/L	100
22) 1,1-Dichloroethane	9.06	63	740526	25.05 ug/L	100
23) Vinyl Acetate	9.20	43	579235	27.50 ug/L	100
24) n-Hexane	9.55	86	75389	26.80 ug/L	100
25) 2-Butanone (MEK)	9.59	72	20601	22.80 ug/L #	100
26) Diisopropylether (DIPE)	9.59	45	1385358	25.36 ug/L	100
27) cis-1,2-Dichloroethene	9.78	96	381596	25.62 ug/L	100
28) Bromochloromethane	9.99	128	154452	25.53 ug/L	100
29) Chloroform	10.05	83	645080	24.80 ug/L	100
30) 2,2-Dichloropropane	10.15	77	379633	24.57 ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	908740	26.81 ug/L	100
33) Tetrahydrofuran	10.47	72	14974	23.81 ug/L	100
34) 1,2-Dichloroethane	10.89	62	406910	24.79 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	510320	25.00 ug/L	100
36) (TAME) tert-Amyl methyl et	11.71	73	610177	26.28 ug/L	100
38) 1,1-Dichloropropene	11.25	75	458844	26.50 ug/L	100
39) Carbon Tetrachloride	11.49	117	449604	25.11 ug/L	100
40) Benzene	11.54	78	1178264	25.65 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

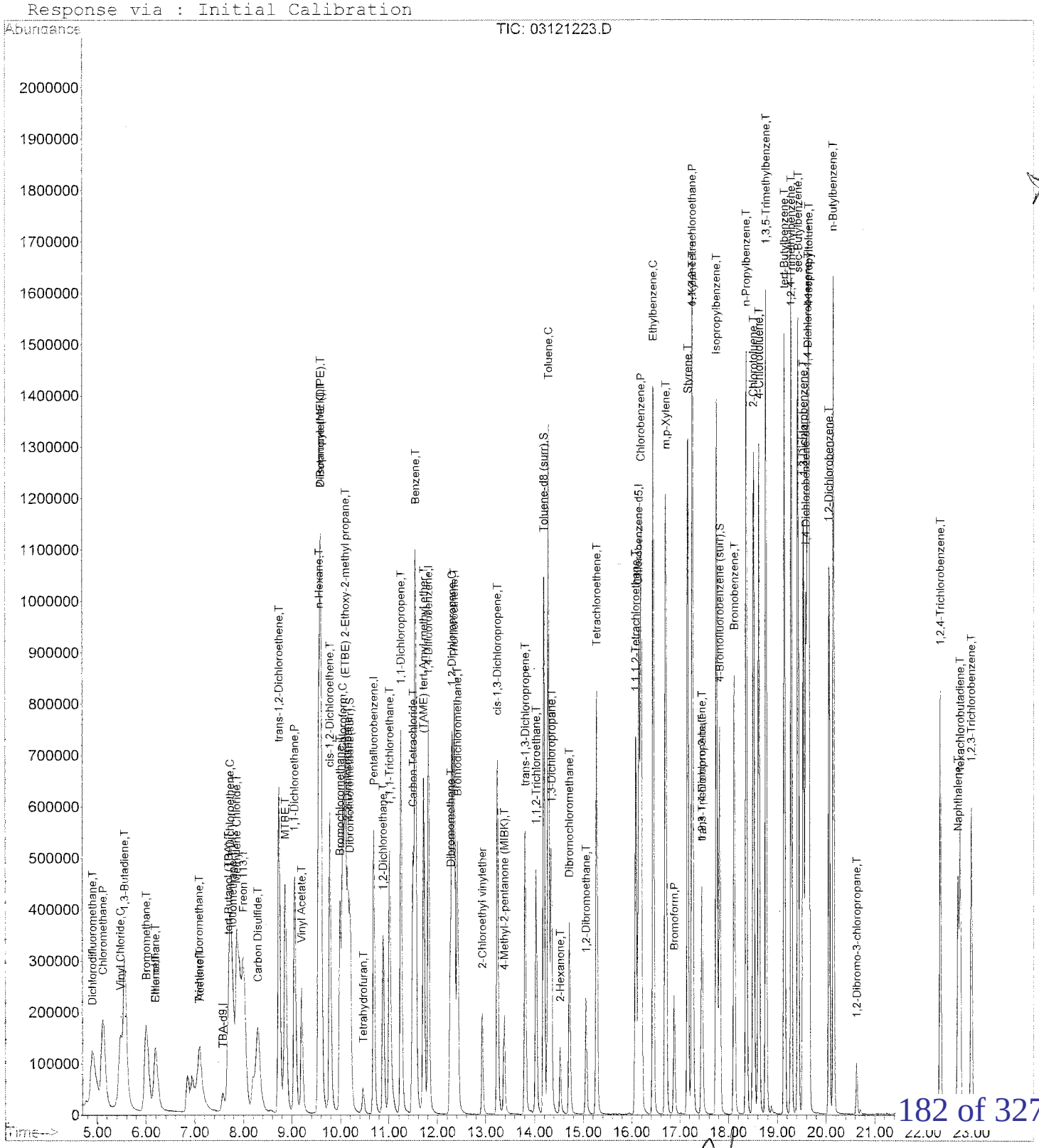
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.27	93	166858	25.03 ug/L	100
42) 1,2-Dichloropropane	12.31	63	332564	25.61 ug/L	100
43) Trichloroethene	12.35	95	341021	25.28 ug/L	100
44) Bromodichloromethane	12.42	83	437368	25.10 ug/L	99
45) 2-Chloroethyl vinylether	12.93	63	97728	23.62 ug/L	100
46) cis-1,3-Dichloropropene	13.24	75	467486	27.91 ug/L	100
47) 4-Methyl-2-pentanone (MIBK	13.39	43	182497	25.35 ug/L	100
48) trans-1,3-Dichloropropene	13.81	75	372724	25.50 ug/L	100
49) 1,1,2-Trichloroethane	14.03	97	199149	24.92 ug/L	100
51) Toluene	14.29	92	736644	25.92 ug/L	100
53) 1,3-Dichloropropane	14.35	76	349070	25.56 ug/L	100
54) 2-Hexanone	14.53	43	129484	25.00 ug/L	100
55) Dibromochloromethane	14.72	129	252170	25.71 ug/L	100
56) 1,2-Dibromoethane	15.06	107	202930	25.82 ug/L	100
57) Tetrachloroethene	15.28	164	246450	25.89 ug/L	100
58) 1,1,1,2-Tetrachloroethane	16.08	131	272056	25.47 ug/L	100
59) Chlorobenzene	16.19	112	817492	25.70 ug/L	100
60) Ethylbenzene	16.45	91	1368914	27.37 ug/L	100
61) m,p-Xylene	16.71	106	546852	27.72 ug/L	100
62) Styrene	17.16	104	842432	27.87 ug/L	100
63) o-Xylene	17.26	106	534711	27.34 ug/L	100
66) Bromoform	16.89	173	140736	26.00 ug/L	100
67) 1,1,2,2-Tetrachloroethane	17.25	83	200672	24.89 ug/L	100
68) 1,2,3-Trichloropropane	17.45	110	57662	26.28 ug/L	100
69) trans-1,4-Dichloro-2-buten	17.47	53	74330	27.06 ug/L	100
70) Isopropylbenzene	17.76	105	1234280	28.14 ug/L	100
71) Bromobenzene	18.12	156	294049	26.24 ug/L	100
72) n-Propylbenzene	18.37	91	1552221	27.61 ug/L	100
73) 2-Chlorotoluene	18.51	91	979196	26.60 ug/L	100
74) 4-Chlorotoluene	18.62	91	998478	27.00 ug/L	100
75) 1,3,5-Trimethylbenzene	18.76	105	1125200	27.60 ug/L	100
76) tert-Butylbenzene	19.14	119	872188	28.18 ug/L	100
77) 1,2,4-Trimethylbenzene	19.29	105	1152465	27.83 ug/L	100
78) sec-Butylbenzene	19.43	105	1389876	27.40 ug/L	100
79) 1,3-Dichlorobenzene	19.54	146	564256	25.37 ug/L	100
80) 1,4-Dichlorobenzene	19.62	146	558541	25.14 ug/L	100
81) 4-Isopropyltoluene	19.65	119	1104899	26.74 ug/L	100
82) 1,2-Dichlorobenzene	20.06	146	497593	26.76 ug/L	100
83) n-Butylbenzene	20.15	91	1074520	27.75 ug/L	100
84) 1,2-Dibromo-3-chloropropan	20.63	75	29119	27.41 ug/L	100
85) 1,2,4-Trichlorobenzene	22.36	180	356136	29.19 ug/L	100
86) Naphthalene	22.72	128	470864	28.80 ug/L	100
87) Hexachlorobutadiene	22.76	225	161440	25.95 ug/L	100
88) 1,2,3-Trichlorobenzene	22.99	180	270223	28.63 ug/L	100

(#) = qualifier out of range (m) = manual integration
03121223.D 031212.M Wed Mar 14 10:49:25 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121223.D Vial: 11
Acq On : 12 Mar 2012 8:12 pm Operator: ms
Sample : 25 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

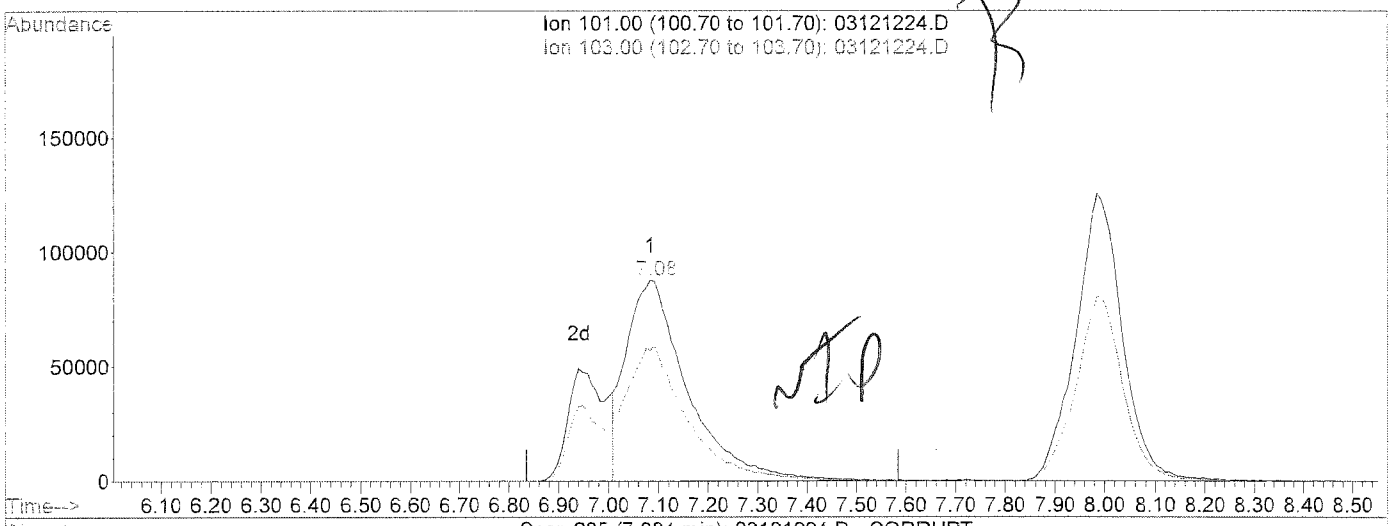
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

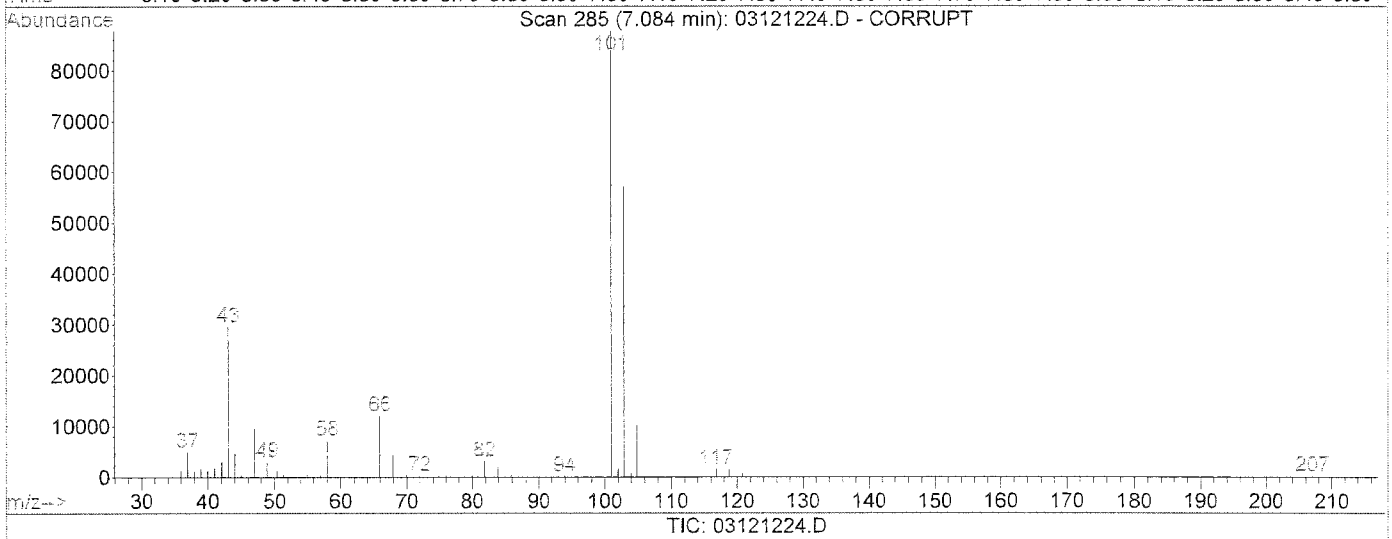


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121224.D

(12) Trichlorofluoromethane (T)

7.08min 39.65ug/L

response 749173

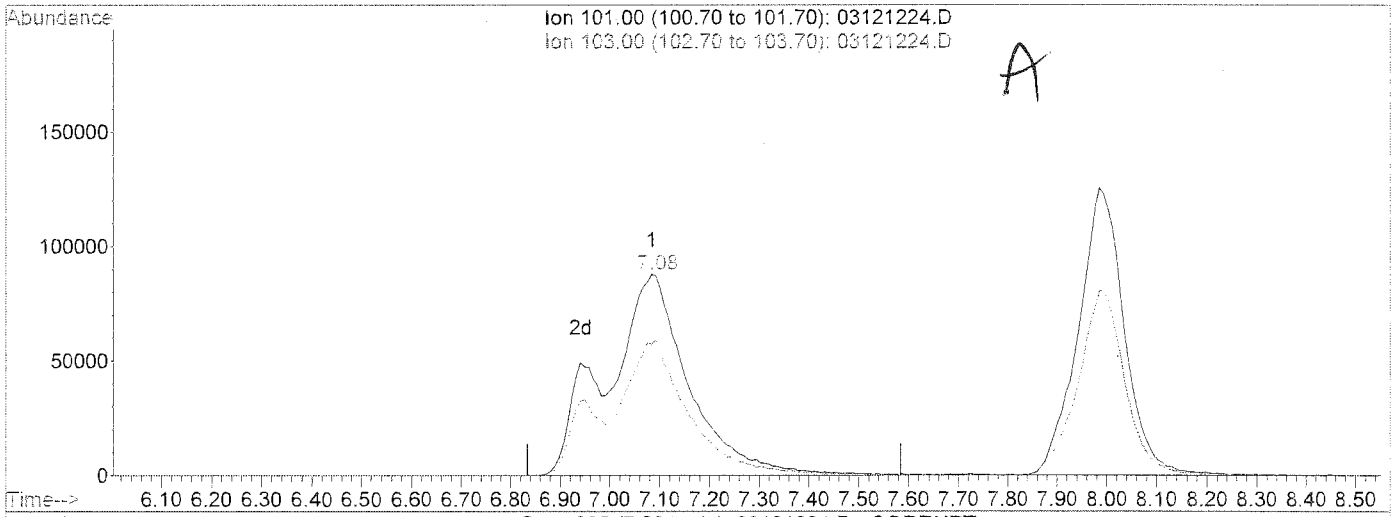
Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.83
0.00	0.00	0.00
0.00	0.00	0.00

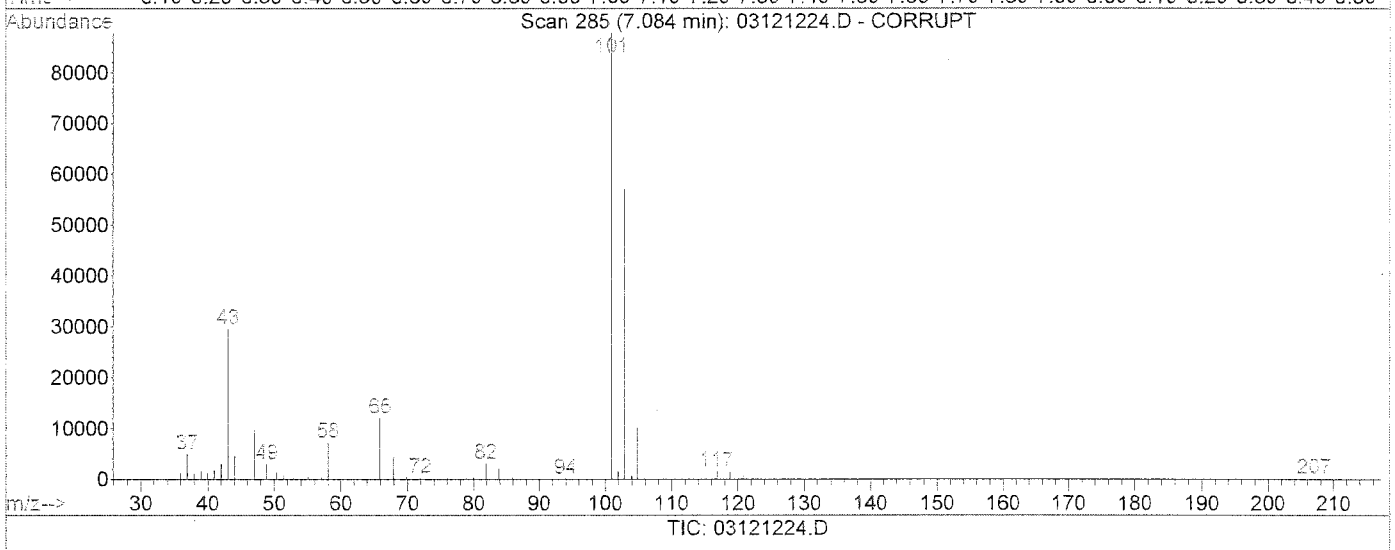
03121224.D 031212.M Wed Mar 14 10:49:37 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





(12) Trichlorofluoromethane (T)

7.08min 53.47ug/L m

response 1010303

✓ 3/14/12

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.05
0.00	0.00	0.00
0.00	0.00	0.00

03121224.D 031212.M Wed Mar 14 10:49:49 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Re-calc.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	95808	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	505691	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	832158	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	690159	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	321959	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	311361	25.55 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.20%	
50) Toluene-d8 (surr)	14.19	98	951272	25.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	366348	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.68%	
Target Compounds					Qvalue
2) Ethanol	6.17	45	31106	519.27 ug/L #	59
3) tert-Butanol (TBA)	7.68	59	203364	243.27 ug/L	98
5) Dichlorodifluoromethane	4.89	85	1166718	50.08 ug/L	100
6) Chloromethane	5.13	50	1250018	46.74 ug/L	98
7) Vinyl Chloride	5.47	62	1121383	49.72 ug/L	99
8) 1,3-Butadiene	5.56	54	682368	51.14 ug/L	99
9) Bromomethane	6.01	94	769232	47.04 ug/L	100
10) Chloroethane	6.19	64	675972	50.97 ug/L	99
11) Acrolein	7.02	56	75	No Calib #	
12) Trichlorofluoromethane	7.08	101	1010303m	53.47 ug/L	
13) Acetone	7.10	43	170392	41.37 ug/L	100
14) Acrylonitrile	7.60	53	135	No Calib #	
15) Iodomethane	7.77	142	1162569	49.73 ug/L	99
16) 1,1-Dichloroethene	7.72	96	732773	49.74 ug/L	100
17) Methylene Chloride	7.87	84	837287	46.52 ug/L	99
18) Freon 113	7.99	101	805807	49.19 ug/L	99
19) Carbon Disulfide	8.30	76	2000775	49.52 ug/L #	93
20) trans-1,2-Dichloroethene	8.74	96	821510	48.81 ug/L	100
21) MTBE	8.86	73	1361624	53.71 ug/L	100
22) 1,1-Dichloroethane	9.06	63	1451271	47.83 ug/L	100
23) Vinyl Acetate	9.20	43	1259910	58.29 ug/L	100
24) n-Hexane	9.55	86	146059	50.59 ug/L	99
25) 2-Butanone (MEK)	9.59	72	41189	44.42 ug/L #	93
26) Diisopropylether (DIPE)	9.59	45	2822889	50.35 ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	765459	50.08 ug/L	100
28) Bromochloromethane	9.99	128	304560	49.06 ug/L	97
29) Chloroform	10.05	83	1272068	47.66 ug/L	100
30) 2,2-Dichloropropane	10.16	77	752114	47.43 ug/L	97
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	1917641	55.12 ug/L	100
33) Tetrahydrofuran	10.47	72	33967	52.63 ug/L #	90
34) 1,2-Dichloroethane	10.88	62	821650	48.79 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	1015237	48.47 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	1329392	55.79 ug/L	99
38) 1,1-Dichloropropene	11.25	75	919869	50.98 ug/L	99
39) Carbon Tetrachloride	11.49	117	897765	48.10 ug/L	99
40) Benzene	11.54	78	2322600	48.52 ug/L	99

(#) = qualifier out of range (m) = manual integration

03121224.D 031212.M Wed Mar 14 10:49:53 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

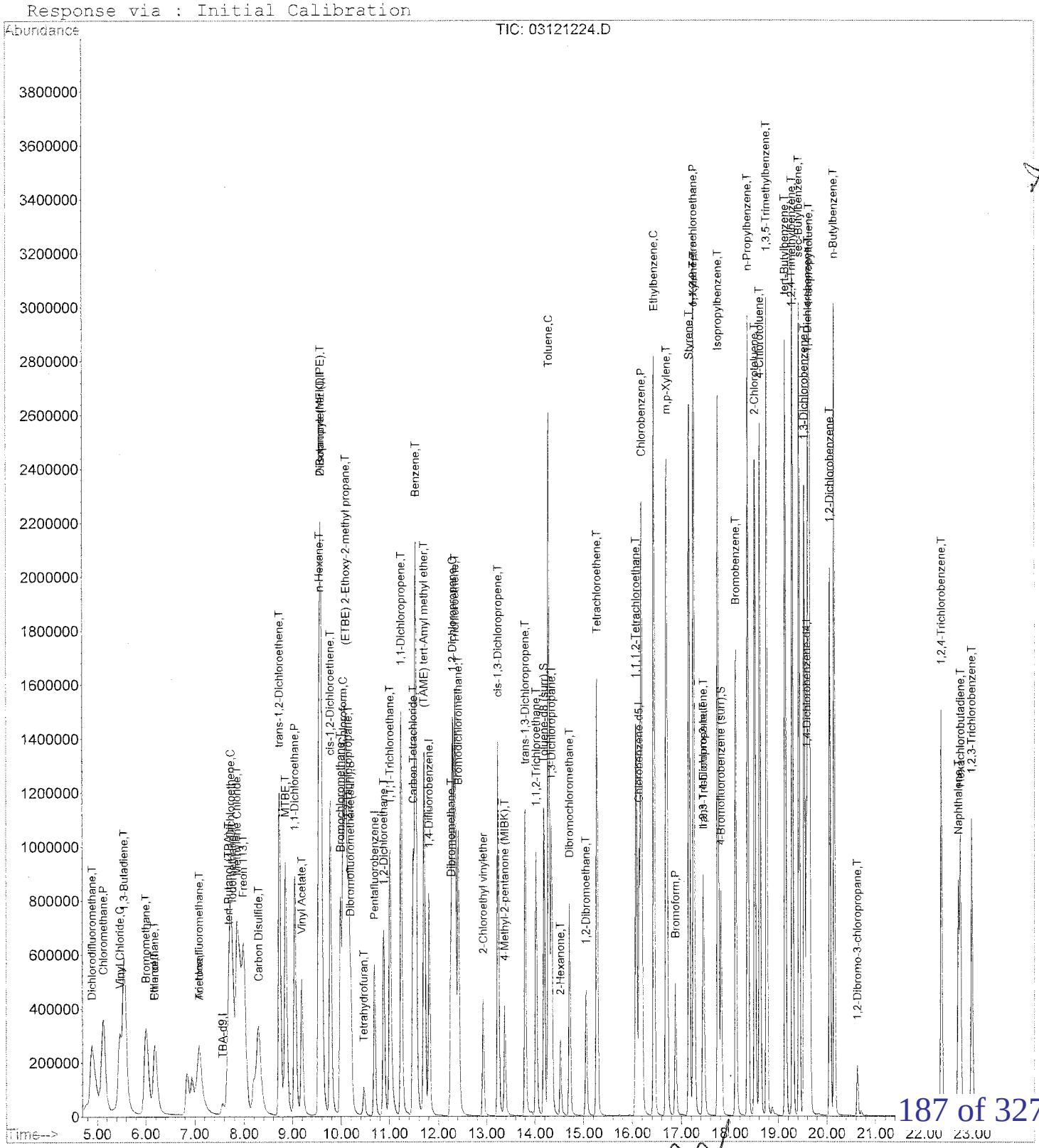
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Dibromomethane	12.26	93	345678	49.76 ug/L	99
42) 1,2-Dichloropropane	12.31	63	663086	49.00 ug/L	100
43) Trichloroethene	12.35	95	678421	48.26 ug/L	100
44) Bromodichloromethane	12.42	83	871260	47.97 ug/L	100
45) 2-Chloroethyl vinylether	12.93	63	219602	49.37 ug/L	97
46) cis-1,3-Dichloropropene	13.24	75	951247	54.49 ug/L	100
47) 4-Methyl-2-pentanone (MIBK	13.38	43	416881	55.55 ug/L	98
48) trans-1,3-Dichloropropene	13.81	75	772509	50.47 ug/L	99
49) 1,1,2-Trichloroethane	14.03	97	410684	49.31 ug/L	99
51) Toluene	14.29	92	1476796	49.87 ug/L	99
53) 1,3-Dichloropropane	14.35	76	724785	49.79 ug/L	100
54) 2-Hexanone	14.53	43	278479	50.44 ug/L	100
55) Dibromochloromethane	14.72	129	537137	51.37 ug/L	100
56) 1,2-Dibromoethane	15.06	107	431357	51.49 ug/L	99
57) Tetrachloroethene	15.28	164	492437	48.54 ug/L	100
58) 1,1,1,2-Tetrachloroethane	16.08	131	553106	48.57 ug/L	99
59) Chlorobenzene	16.19	112	1615789	47.65 ug/L	100
60) Ethylbenzene	16.45	91	2682232	50.30 ug/L	99
61) m,p-Xylene	16.71	106	1099795	52.30 ug/L	98
62) Styrene	17.16	104	1699103	52.64 ug/L	100
63) o-Xylene	17.26	106	1053359	50.53 ug/L	99
66) Bromoform	16.88	173	305554	53.55 ug/L	99
67) 1,1,2,2-Tetrachloroethane	17.25	83	399960	47.05 ug/L	99
68) 1,2,3-Trichloropropane	17.46	110	117382	50.74 ug/L	98
69) trans-1,4-Dichloro-2-buten	17.47	53	155977	53.86 ug/L	97
70) Isopropylbenzene	17.76	105	2456098	53.10 ug/L	100
71) Bromobenzene	18.12	156	605003	51.20 ug/L	98
72) n-Propylbenzene	18.37	91	3067944	51.76 ug/L	100
73) 2-Chlorotoluene	18.51	91	1895002	48.83 ug/L	99
74) 4-Chlorotoluene	18.62	91	1940467	49.76 ug/L	98
75) 1,3,5-Trimethylbenzene	18.76	105	2167504	50.42 ug/L	100
76) tert-Butylbenzene	19.14	119	1698137	52.04 ug/L	99
77) 1,2,4-Trimethylbenzene	19.29	105	2222051	50.90 ug/L	98
78) sec-Butylbenzene	19.43	105	2632179	49.22 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	1123463	47.91 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	1112167	47.48 ug/L	100
81) 4-Isopropyltoluene	19.65	119	2110091	48.44 ug/L	100
82) 1,2-Dichlorobenzene	20.06	146	950875	48.49 ug/L	100
83) n-Butylbenzene	20.15	91	2026501	49.64 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	55980	49.99 ug/L	96
85) 1,2,4-Trichlorobenzene	22.36	180	657849	51.14 ug/L	99
86) Naphthalene	22.72	128	895338	51.93 ug/L	99
87) Hexachlorobutadiene	22.76	225	291640	44.47 ug/L	99
88) 1,2,3-Trichlorobenzene	22.99	180	508619	51.11 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121224.D 031212.M Wed Mar 14 10:49:53 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121224.D Vial: 12
Acq On : 12 Mar 2012 8:43 pm Operator: ms
Sample : 50 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:49 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

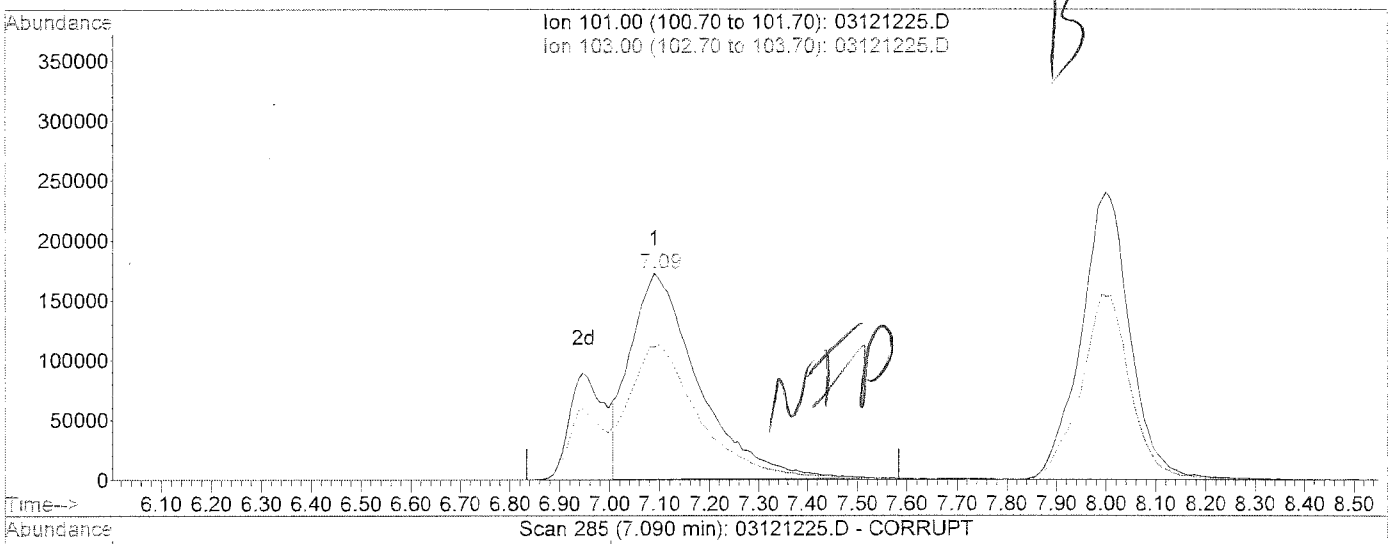


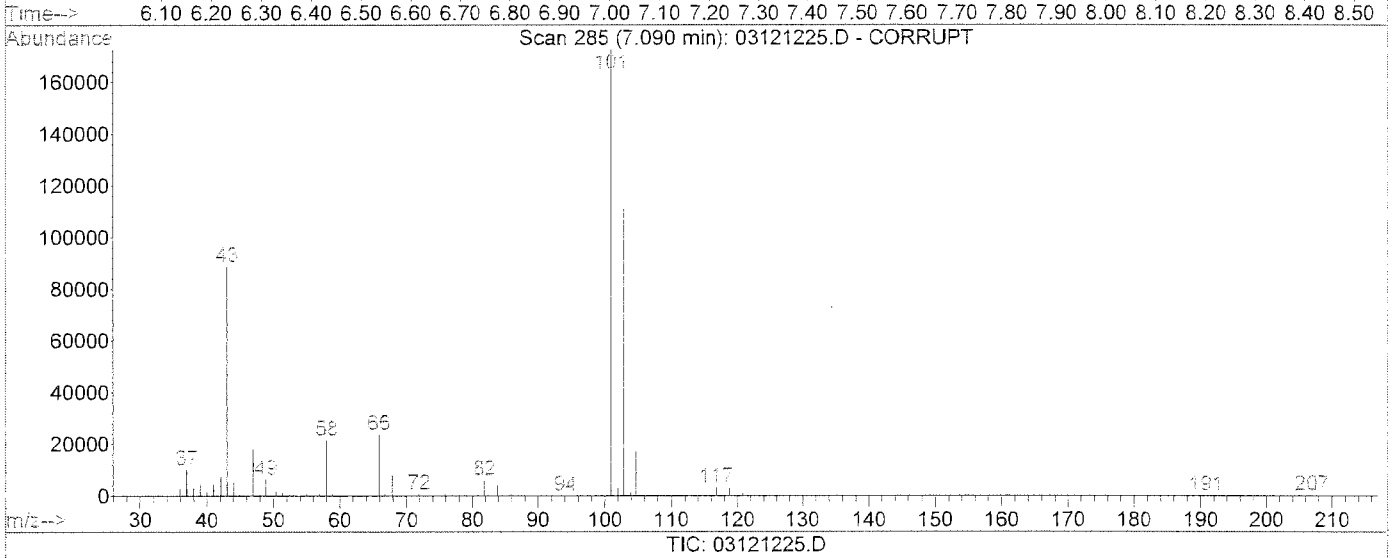
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

B





(12) Trichlorofluoromethane (T)

7.09min 83.13ug/L

response 1634179

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.17
0.00	0.00	0.00
0.00	0.00	0.00

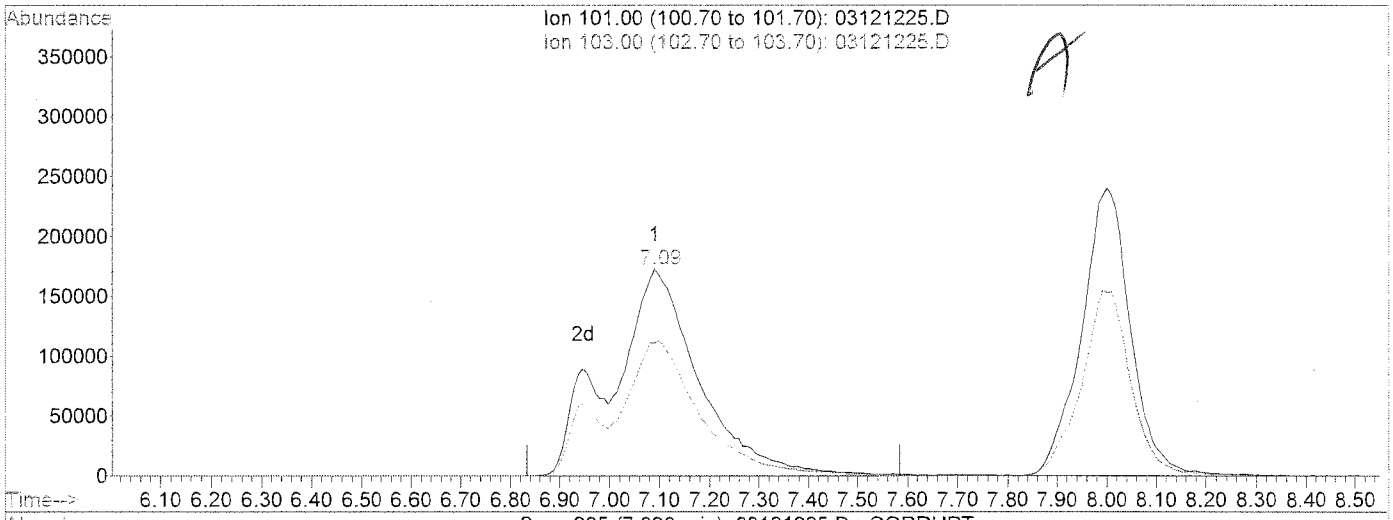
✓ 3/14/12

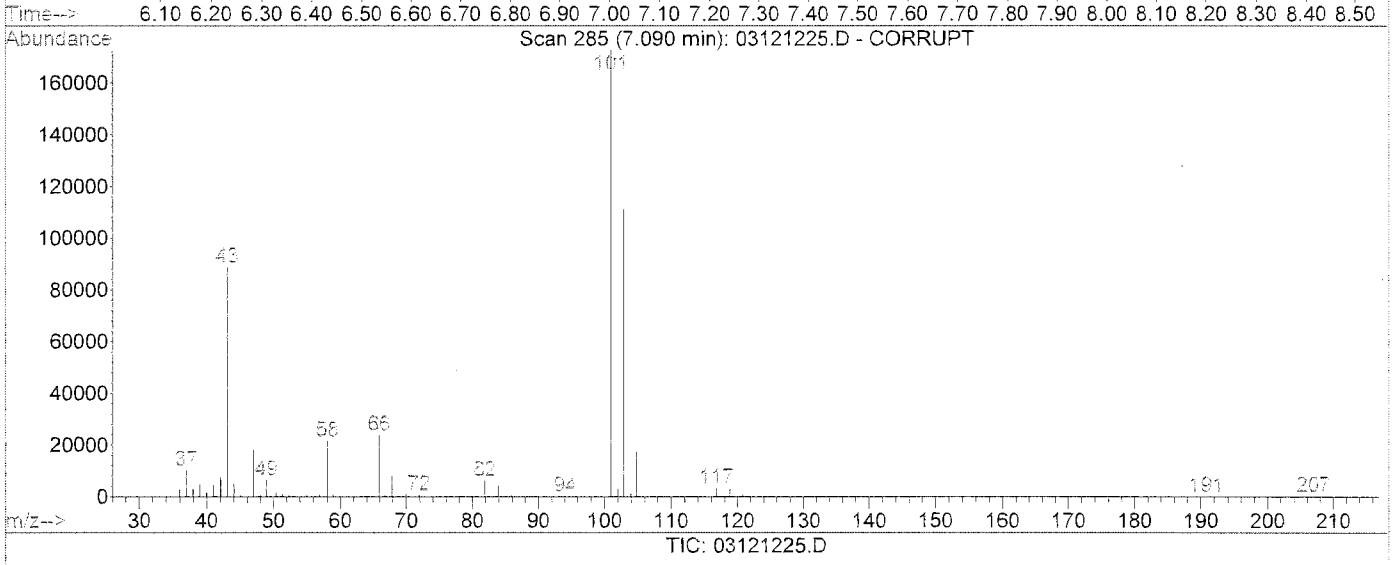
03121225.D 031212.M Wed Mar 14 10:50:17 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121225.D

(12) Trichlorofluoromethane (T)

7.09min 107.56ug/L m

response 2114410

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.33
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03121225.D 031212.M Wed Mar 14 10:50:37 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

✓3/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	94067	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	526147	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	853823	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	696263	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	313098	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	307753	24.27 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.08%	
50) Toluene-d8 (surr)	14.19	98	962276	25.17 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.68%	
64) 4-Bromofluorobenzene (surr	17.83	95	361173	25.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.32%	

Target Compounds					Qvalue
2) Ethanol	6.18	45	64588	1098.16 ug/L #	81
3) tert-Butanol (TBA)	7.69	59	408002	497.09 ug/L	98
5) Dichlorodifluoromethane	4.89	85	2227723	91.91 ug/L	99
6) Chloromethane	5.15	50	2257415	81.12 ug/L	98
7) Vinyl Chloride	5.50	62	2194641	93.52 ug/L	99
8) 1,3-Butadiene	5.57	54	1341608	96.63 ug/L	98
9) Bromomethane	6.04	94	1541604	90.61 ug/L	99
10) Chloroethane	6.19	64	1355582	98.25 ug/L	99
11) Acrolein	0.00	56	0	N.D. d	
12) Trichlorofluoromethane	7.09	101	2114410m	107.56 ug/L	
13) Acetone	7.11	43	452746	105.65 ug/L	98
14) Acrylonitrile	0.00	53	0	N.D. d	
15) Iodomethane	7.79	142	2373461	97.58 ug/L	99
16) 1,1-Dichloroethene	7.72	96	1496591	97.64 ug/L	98
17) Methylene Chloride	7.87	84	1682010	89.82 ug/L	97
18) Freon 113	8.00	101	1639379	96.18 ug/L	99
19) Carbon Disulfide	8.30	76	4202864	99.99 ug/L #	95
20) trans-1,2-Dichloroethene	8.73	96	1687124	96.34 ug/L	99
21) MTBE	8.87	73	2872186	108.88 ug/L	99
22) 1,1-Dichloroethane	9.05	63	2977288	94.31 ug/L	99
23) Vinyl Acetate	9.20	43	2482982	110.40 ug/L	100
24) n-Hexane	9.55	86	297911	99.17 ug/L	99
25) 2-Butanone (MEK)	9.58	72	97052	100.60 ug/L #	39
26) Diisopropylether (DIPE)	9.59	45	5507827	94.42 ug/L	98
27) cis-1,2-Dichloroethene	9.79	96	1554391	97.74 ug/L	99
28) Bromochloromethane	10.00	128	620382	96.05 ug/L	95
29) Chloroform	10.05	83	2488261	89.59 ug/L	99
30) 2,2-Dichloropropane	10.16	77	1452856	88.06 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	3808314	105.21 ug/L	99
33) Tetrahydrofuran	10.47	72	72074	107.33 ug/L #	89
34) 1,2-Dichloroethane	10.88	62	1630673	93.06 ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	2038914	93.56 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	2665391	107.50 ug/L	98
38) 1,1-Dichloropropene	11.25	75	1869229	100.96 ug/L	99
39) Carbon Tetrachloride	11.49	117	1816860	94.87 ug/L	99
40) Benzene	11.54	78	4564847	92.93 ug/L	100

(#) = qualifier out of range (m) = manual integration

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

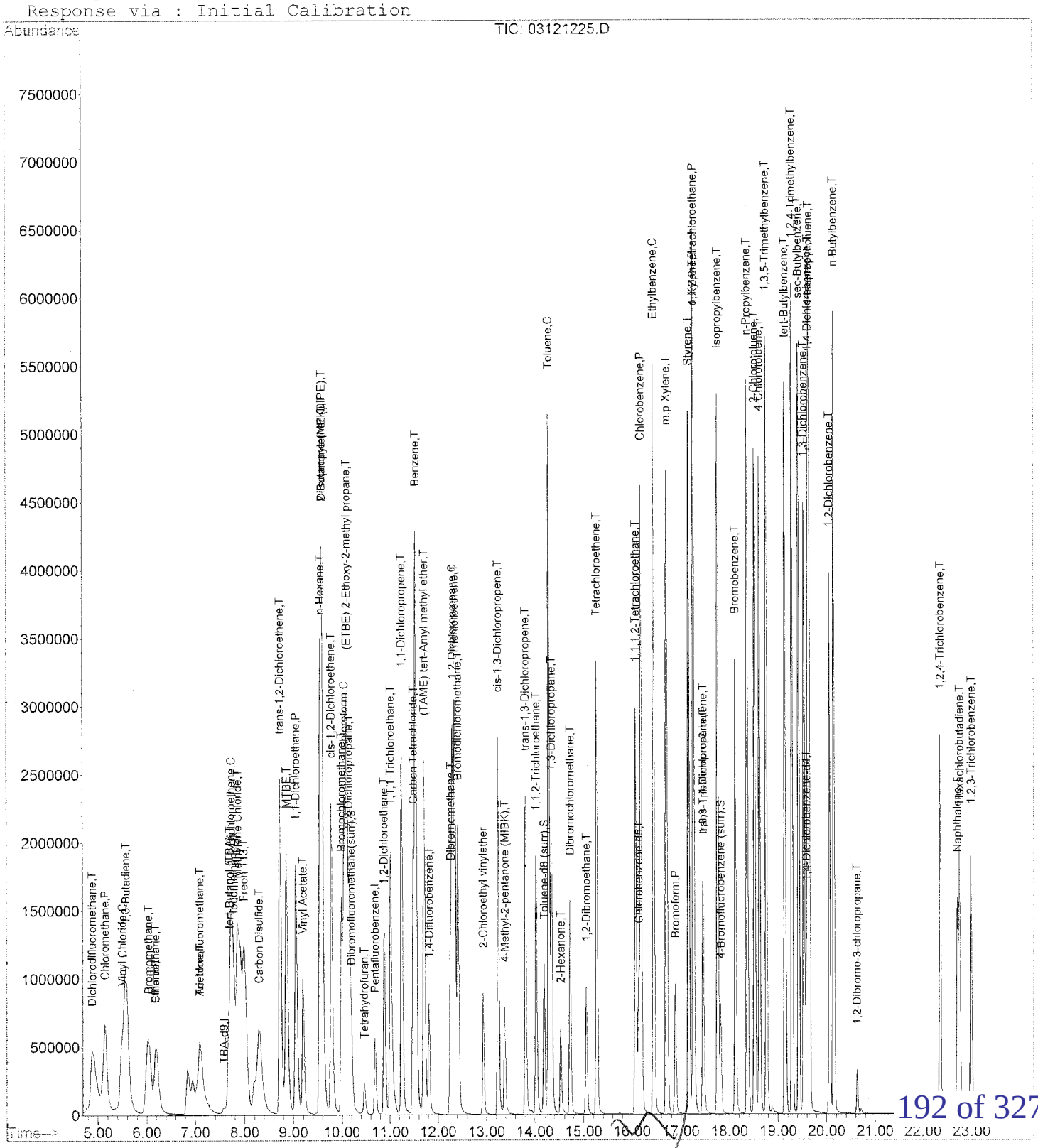
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.26	93	690752	96.91 ug/L	98
42)	1,2-Dichloropropane	12.31	63	1284941	92.54 ug/L	99
43)	Trichloroethene	12.36	95	1354042	93.87 ug/L	99
44)	Bromodichloromethane	12.42	83	1767141	94.83 ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	466052	100.68 ug/L	99
46)	cis-1,3-Dichloropropene	13.24	75	1931216	107.81 ug/L	98
47)	4-Methyl-2-pentanone (MIBK	13.39	43	844915	109.74 ug/L	98
48)	trans-1,3-Dichloropropene	13.81	75	1596258	101.41 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	832837	97.46 ug/L	98
51)	Toluene	14.29	92	2942795	96.84 ug/L	97
53)	1,3-Dichloropropane	14.35	76	1456458	99.18 ug/L	100
54)	2-Hexanone	14.53	43	644450	115.70 ug/L	98
55)	Dibromochloromethane	14.73	129	1095757	103.88 ug/L	100
56)	1,2-Dibromoethane	15.06	107	878631	103.96 ug/L	99
57)	Tetrachloroethene	15.27	164	1003223	98.01 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	1132686	98.60 ug/L	99
59)	Chlorobenzene	16.19	112	3187606	93.18 ug/L	99
60)	Ethylbenzene	16.44	91	5217990	97.00 ug/L	98
61)	m,p-Xylene	16.71	106	2179210	102.73 ug/L	97
62)	Styrene	17.16	104	3350551	102.79 ug/L	99
63)	o-Xylene	17.26	106	2073823	98.62 ug/L	97
66)	Bromoform	16.89	173	622197	112.13 ug/L	100
67)	1,1,2,2-Tetrachloroethane	17.25	83	755834	91.43 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	233973	103.99 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.46	53	309886	110.04 ug/L	95
70)	Isopropylbenzene	17.76	105	4732641	105.22 ug/L	98
71)	Bromobenzene	18.12	156	1190970	103.64 ug/L	97
72)	n-Propylbenzene	18.37	91	5814099	100.87 ug/L	98
73)	2-Chlorotoluene	18.52	91	3709452	98.29 ug/L	98
74)	4-Chlorotoluene	18.62	91	3748227	98.84 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	4199765	100.46 ug/L	98
76)	tert-Butylbenzene	19.15	119	3270817	103.08 ug/L	98
77)	1,2,4-Trimethylbenzene	19.29	105	4240200	99.88 ug/L	98
78)	sec-Butylbenzene	19.43	105	5009810	96.34 ug/L	98
79)	1,3-Dichlorobenzene	19.54	146	2204189	96.67 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	2142308	94.04 ug/L	100
81)	4-Isopropyltoluene	19.66	119	4024827	95.01 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	1835172	96.24 ug/L	99
83)	n-Butylbenzene	20.15	91	3764254	94.81 ug/L	98
84)	1,2-Dibromo-3-chloropropan	20.62	75	100034	91.85 ug/L	93
85)	1,2,4-Trichlorobenzene	22.36	180	1225483	97.96 ug/L	99
86)	Naphthalene	22.71	128	1658215	98.90 ug/L	99
87)	Hexachlorobutadiene	22.76	225	553510	86.79 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	922404	95.32 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121225.D 031212.M Wed Mar 14 10:50:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121225.D Vial: 13
Acq On : 12 Mar 2012 9:15 pm Operator: ms
Sample : 100 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: 031212.RES

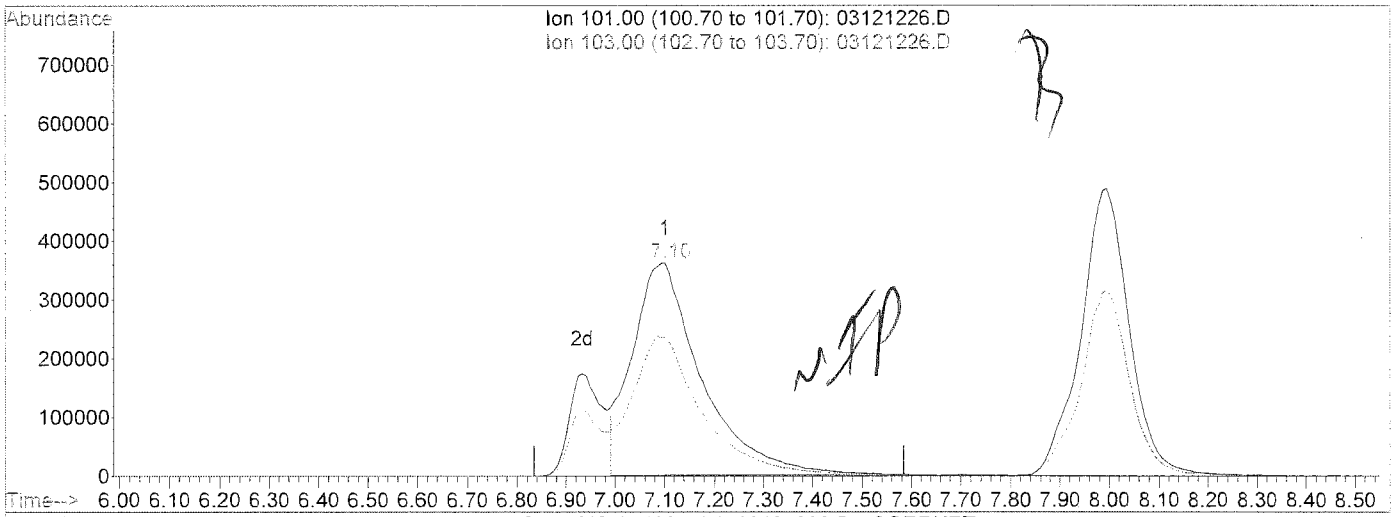
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

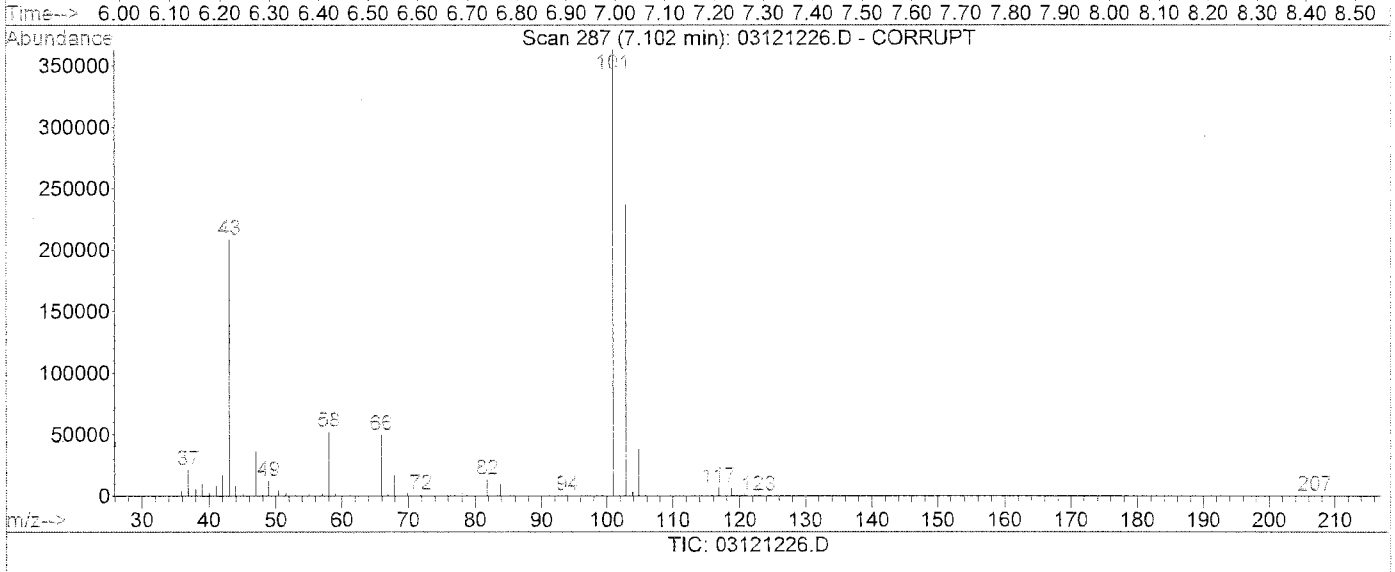


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

7.10min 170.05ug/L

response 3518456

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.08
0.00	0.00	0.00
0.00	0.00	0.00

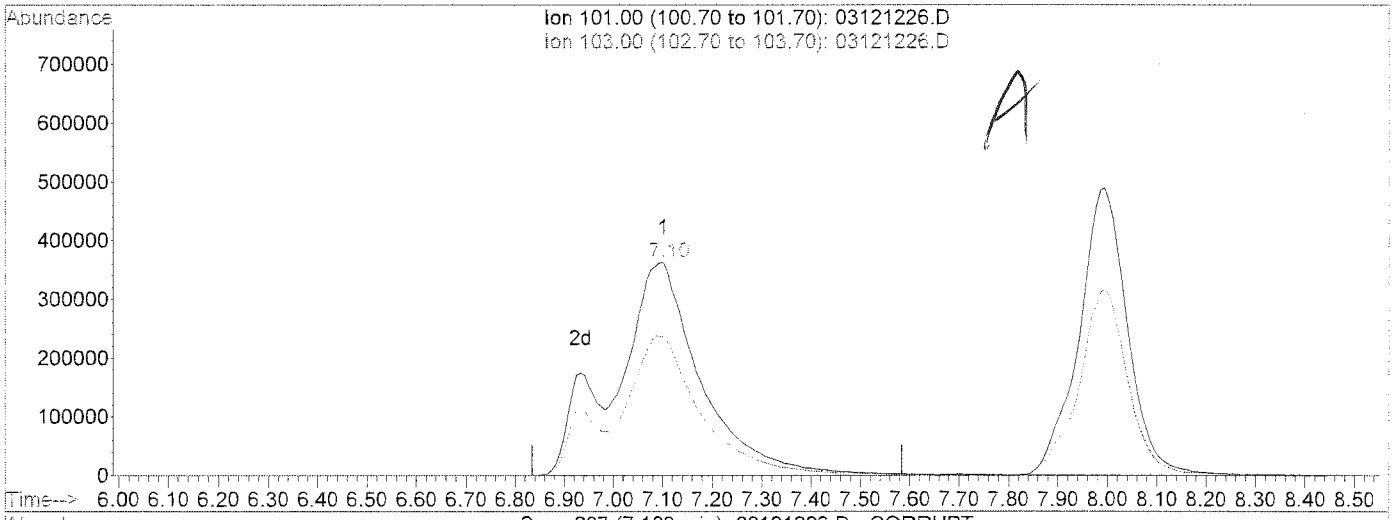
3/14/12

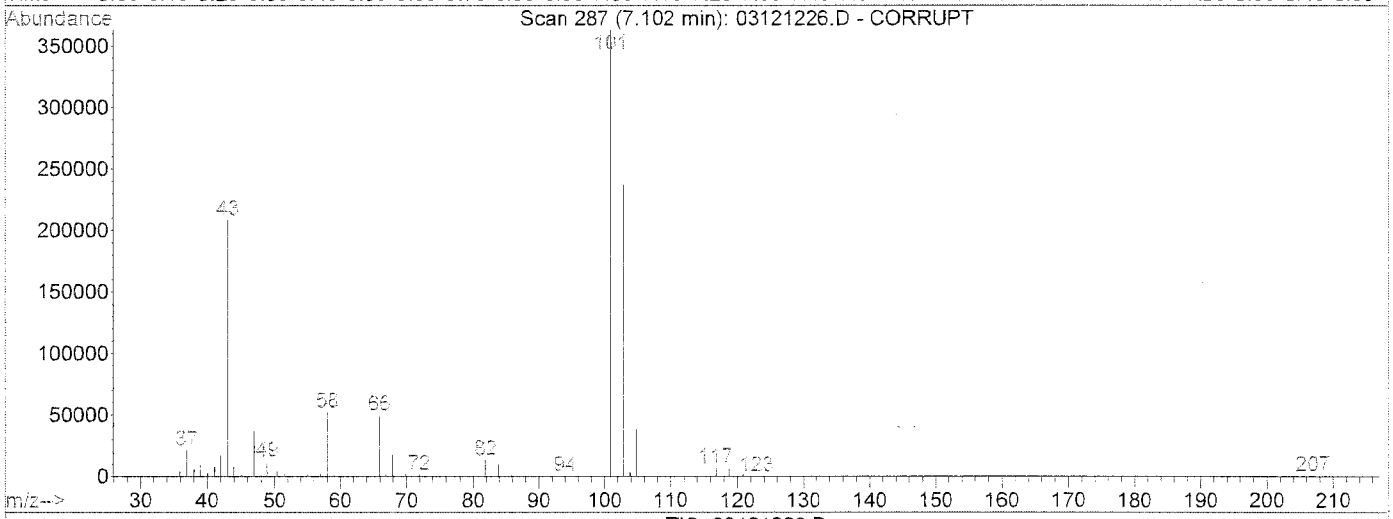
03121226.D 031212.M Wed Mar 14 10:51:00 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration





TIC: 03121226.D

(12) Trichlorofluoromethane (T)

3/14/12

7.10min 214.14ug/L m

response 4430661

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.21
0.00	0.00	0.00
0.00	0.00	0.00

03121226.D 031212.M Wed Mar 14 10:51:19 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

3/14/12 Recalc.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.57	65	96595	200.00	ug/L	0.00
4) Pentafluorobenzene	10.69	168	553774	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	904577	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.15	117	760529	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	338639	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	311262	23.32	ug/L	0.00
Spiked Amount 25.000			Recovery	=	93.28%	
50) Toluene-d8 (surr)	14.19	98	1007514	24.88	ug/L	0.00
Spiked Amount 25.000			Recovery	=	99.52%	
64) 4-Bromofluorobenzene (surr	17.83	95	363668	23.35	ug/L	0.00
Spiked Amount 25.000			Recovery	=	93.40%	

Target Compounds						Qvalue
2) Ethanol	6.17	45	124917	2068.32	ug/L #	28
3) tert-Butanol (TBA)	7.69	59	801164	950.56	ug/L	98
5) Dichlorodifluoromethane	4.88	85	4063301	159.27	ug/L >20%	99
6) Chloromethane	5.15	50	3758158	128.31	~~ug/L~~ Delted	98
7) Vinyl Chloride	5.51	62	4116006	166.64	ug/L	99
8) 1,3-Butadiene	5.58	54	2565130	175.53	ug/L	96
9) Bromomethane	6.04	94	3082911	172.15	ug/L	99
10) Chloroethane	6.20	64	2661085	183.24	ug/L	99
11) Acrolein	0.00	56	0	N.D.	d	
12) Trichlorofluoromethane	7.10	101	4430661m	214.14	ug/L	
13) Acetone	7.10	43	954014	211.53	ug/L	98
14) Acrylonitrile	0.00	53	0	N.D.	d	
15) Iodomethane	7.78	142	4870455	190.25	ug/L	99
16) 1,1-Dichloroethene	7.73	96	3054562	189.33	ug/L	95
17) Methylene Chloride	7.86	84	3361167	170.53	ug/L	95
18) Freon 113	7.99	101	3315720	184.82	ug/L	98
19) Carbon Disulfide	8.31	76	8694500	196.53	ug/L	100
20) trans-1,2-Dichloroethene	8.73	96	3283795	178.17	ug/L	98
21) MTBE	8.86	73	5463773	196.80	ug/L	99
22) 1,1-Dichloroethane	9.05	63	5526084	166.32	ug/L	99
23) Vinyl Acetate	9.19	43	4583088	193.62	ug/L	100
24) n-Hexane	9.55	86	604517	191.20	ug/L #	92
25) 2-Butanone (MEK)	9.59	72	203308	200.23	ug/L #	17
26) Diisopropylether (DIPE)	9.60	45	10601248	172.67	ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	3158561	188.69	ug/L	97
28) Bromochloromethane	9.99	128	1292731	190.17	ug/L	91
29) Chloroform	10.04	83	4936568	168.88	ug/L	98
30) 2,2-Dichloropropane	10.15	77	2814169	162.06	ug/L	92
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	7605392	199.63	ug/L	99
33) Tetrahydrofuran	10.47	72	160376	226.91	ug/L #	87
34) 1,2-Dichloroethane	10.89	62	3292179	178.51	ug/L	98
35) 1,1,1-Trichloroethane	11.01	97	4122428	179.72	ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	5447757	208.77	ug/L	96
38) 1,1-Dichloropropene	11.25	75	3706202	188.94	ug/L	97
39) Carbon Tetrachloride	11.48	117	3679309	181.33	ug/L	99
40) Benzene	11.54	78	8721347	167.59	ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 031212.M Wed Mar 14 10:51:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

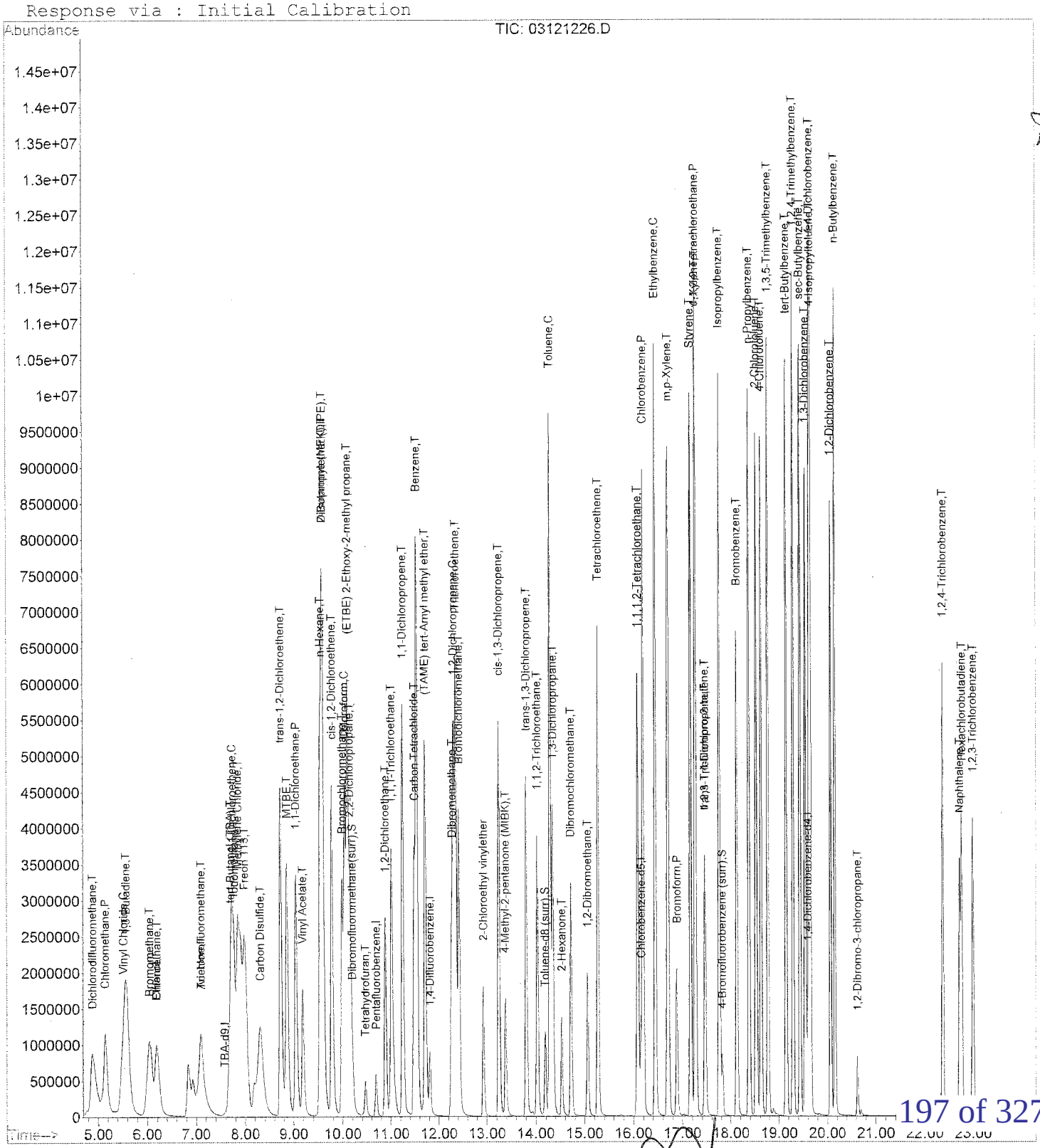
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Dibromomethane	12.27	93	1427822	189.08 ug/L	97
42)	1,2-Dichloropropane	12.31	63	2518345	171.19 ug/L	99
43)	Trichloroethene	12.35	95	2719453	177.96 ug/L	97
44)	Bromodichloromethane	12.42	83	3557618	180.20 ug/L	98
45)	2-Chloroethyl vinylether	12.93	63	998008	202.12 ug/L	100
46)	cis-1,3-Dichloropropene	13.25	75	3905303	205.79 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.38	43	1803155	221.05 ug/L	96
48)	trans-1,3-Dichloropropene	13.81	75	3307315	198.09 ug/L	97
49)	1,1,2-Trichloroethane	14.03	97	1756140	193.97 ug/L	97
51)	Toluene	14.29	92	5815593	180.65 ug/L	94
53)	1,3-Dichloropropane	14.35	76	2981270	185.87 ug/L	99
54)	2-Hexanone	14.53	43	1443232	237.21 ug/L	98
55)	Dibromochloromethane	14.72	129	2321535	201.49 ug/L	99
56)	1,2-Dibromoethane	15.06	107	1900513	205.86 ug/L	100
57)	Tetrachloroethene	15.28	164	2116145	189.28 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	2401823	191.40 ug/L	99
59)	Chlorobenzene	16.19	112	6445964	172.50 ug/L	98
60)	Ethylbenzene	16.45	91	10128358	172.37 ug/L	94
61)	m,p-Xylene	16.71	106	4488388	193.70 ug/L	92
62)	Styrene	17.16	104	6784462	190.46 ug/L	98
63)	o-Xylene	17.27	106	4198413	182.78 ug/L	90
66)	Bromoform	16.89	173	1347477	224.51 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.26	83	1505679	168.41 ug/L	99
68)	1,2,3-Trichloropropane	17.46	110	502973	206.69 ug/L	99
69)	trans-1,4-Dichloro-2-buten	17.47	53	640336	210.23 ug/L	92
70)	Isopropylbenzene	17.76	105	9268867	190.52 ug/L	95
71)	Bromobenzene	18.12	156	2487312	200.12 ug/L	94
72)	n-Propylbenzene	18.38	91	10978924	176.10 ug/L	92
73)	2-Chlorotoluene	18.52	91	7185794	176.04 ug/L	94
74)	4-Chlorotoluene	18.62	91	7248392	176.72 ug/L	93
75)	1,3,5-Trimethylbenzene	18.77	105	8027401	177.53 ug/L	93
76)	tert-Butylbenzene	19.15	119	6685641	194.80 ug/L	96
77)	1,2,4-Trimethylbenzene	19.30	105	8304938	180.87 ug/L	93
78)	sec-Butylbenzene	19.44	105	9642649	171.44 ug/L	93
79)	1,3-Dichlorobenzene	19.55	146	4502973	182.58 ug/L	97
80)	1,4-Dichlorobenzene	19.63	146	4447544	180.51 ug/L	99
81)	4-Isopropyltoluene	19.66	119	7917757	172.80 ug/L	97
82)	1,2-Dichlorobenzene	20.06	146	3898725	189.04 ug/L	99
83)	n-Butylbenzene	20.16	91	7337239	170.87 ug/L	94
84)	1,2-Dibromo-3-chloropropan	20.63	75	244755	207.79 ug/L	90
85)	1,2,4-Trichlorobenzene	22.36	180	2814228	207.99 ug/L	99
86)	Naphthalene	22.72	128	3722542	205.29 ug/L	98
87)	Hexachlorobutadiene	22.76	225	1232215	178.63 ug/L	99
88)	1,2,3-Trichlorobenzene	23.00	180	1982979	189.46 ug/L	99

(#) = qualifier out of range (m) = manual integration
03121226.D 031212.M Wed Mar 14 10:51:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031212\03121226.D Vial: 14
Acq On : 12 Mar 2012 9:47 pm Operator: ms
Sample : 200 PPB CAL PT Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 10:51 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



ANALYTICAL DATA

METHOD: 8260

DATE: 03/13/12

WORK ORDER: PVC0524

Phoenix

GC/MS 09 DAILY LOG SUMMARY

DATE: 3/13/12 QC BATCH # (s) : 12C0524

ANALYST: M SEQUENCE FILE: C:\GCMS9\DATA\ 03/312.S

CALIBRATION METHOD(S): 031212.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	03131201	Tune	2ml	N/A	8260	N/A	
2	02	25ppb cw	✓	↓	↓	H2O	
3	03	12C0524-BS1	✓	↓	↓	↓	
4	04	-BSD1	✓	↓	↓	↓	
5	05	-MS1	✓	↓	↓	↓	
6	06	-MSD1	✓	↓	↓	↓	
* 7	07	Blank	✓	↓	↓	↓	
8	08	12C0524-BLK1	✓	↓	↓	↓	
08	09	PVC0465-05A	✓	✓	↓	↓	TB
09	10	PVC0524-03A	✓	✓	↓	↓	↓
10	11	-01A	✓	✓	↓	↓	Sumee
11	12	-02A	✓	✓	↓	↓	
12	13	-04A	✓	✓	↓	↓	
13	14	-05A	✓	✓	↓	↓	
14	15	-06A	✓	✓	↓	↓	
15	16	-07A	✓	✓	↓	↓	
16	17	-08A	✓	✓	↓	↓	
17	18	PVC0465-01G	✓	✓	↓	↓	
18	19	-02A	✓	✓	↓	↓	
19	20	-03G	✓	✓	↓	↓	
20	21	-04G	✓	✓	↓	↓	
21	22	PVC0766-02B RE1 10ml→10ml	✓	↓	↓	↓	R-run TCE 10X
22	23	-04B RE1 10ml→10ml	✓	↓	↓	↓	R-run TCE 10X
23	24	Blank	✓	N/A	↓	↓	
24	25	Blank	✓	↓	↓	↓	

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STANDARD ID NUMBERS

ICV / H_2O LCS: PV01459

CCV/CALIBRATION STD: PV1506 / PV01212

IS/Surrogate: PV01488

BFB: PV01465

REQUIRED REVIEWS

25ppb PREPARATION: 25ul cal std → 5ml cw

N/A PREPARATION: N/A

ARCHON REVIEWED By/Date: 3/14/12 M

SEQUENCE REVIEWED By/Date: M 3/15/12

FINAL REVIEWER / Date:

* 3/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS9\DATA\031312

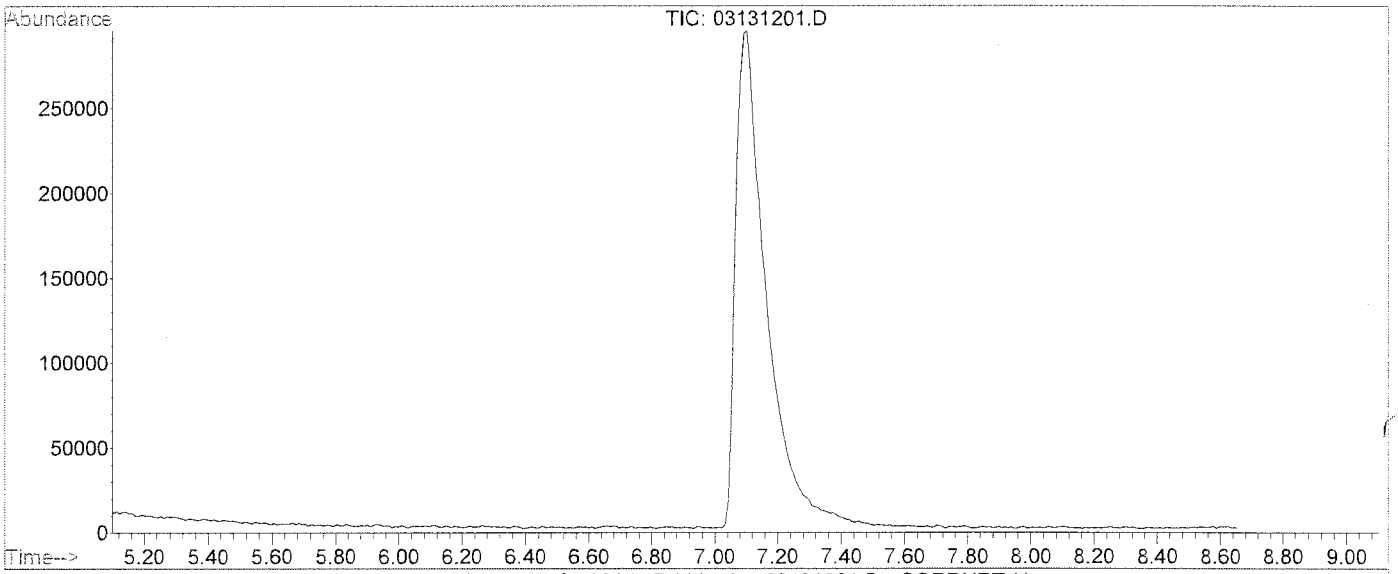
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03131201.D	1.	TUNE		13 Mar 2012 09:42
2	2	03131202.D	1.	25 PPB CCV		13 Mar 2012 10:04
3	3	03131203.D	1.	12C0524-BS1		13 Mar 2012 10:45
4	4	03131204.D	1.	12C0524-BSD1		13 Mar 2012 11:16
5	5	03131205.D	1.	12C0524-MS1		13 Mar 2012 11:49
6	5	03131206.D	1.	12C0524-MSD1		13 Mar 2012 12:21
7	6	03131207.D	1.	blank		13 Mar 2012 12:52
8	7	03131208.D	1.	12C0524-BLK1		13 Mar 2012 13:23
9	8	03131209.D	1.	PVC0465-05		13 Mar 2012 13:55
10	9	03131210.D	1.	PVC0524-03		13 Mar 2012 14:27
11	10	03131211.D	1.	PVC0524-01		13 Mar 2012 14:58
12	11	03131212.D	1.	PVC0524-02		13 Mar 2012 15:29
13	12	03131213.D	1.	PVC0524-04		13 Mar 2012 16:00
14	13	03131214.D	1.	PVC0524-05		13 Mar 2012 16:32
15	14	03131215.D	1.	PVC0524-06		13 Mar 2012 17:03
16	15	03131216.D	1.	PVC0524-07		13 Mar 2012 17:34
17	16	03131217.D	1.	PVC0524-08		13 Mar 2012 18:06
18	17	03131218.D	1.	PVC0465-01		13 Mar 2012 18:38
19	18	03131219.D	1.	PVC0465-02		13 Mar 2012 19:09
20	19	03131220.D	1.	PVC0465-03		13 Mar 2012 19:40
21	20	03131221.D	1.	PVC0465-04		13 Mar 2012 20:13
22	21	03131222.D	1.	PVC0766-02RE1	10X	13 Mar 2012 20:44
23	22	03131223.D	1.	PVC0766-04RE1	10X	13 Mar 2012 21:15
24	23	03131224.D	1.	BLANK		13 Mar 2012 21:47
25	24	03131225.D	1.	BLANK		13 Mar 2012 22:18

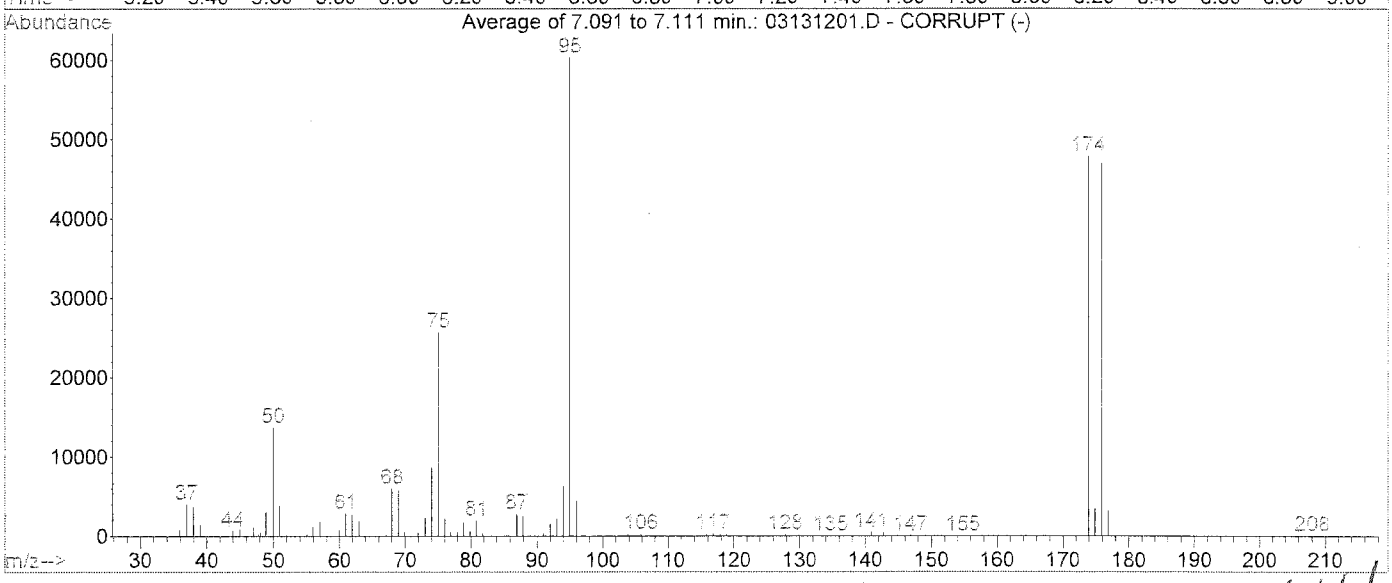
3/14/12 [illegible]

[illegible] 3/14/12

Method 8260

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131201.D Vial: 1
Acq On : 13 Mar 2012 9:42 am Operator: ms
Sample : TUNE Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260





3/14/12

Spectrum Information: Average of 7.091 to 7.111 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	13691	PASS
75	95	30	60	42.6	25677	PASS
95	95	100	100	100.0	60315	PASS
96	95	5	9	7.3	4403	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.3	47813	PASS
175	174	5	9	7.2	3445	PASS
176	174	95	101	98.1	46904	PASS
177	176	5	9	6.7	3154	PASS

03131201.D 031212.M Wed Mar 14 11:15:09 2012

M 4/14/12

8260 CCV/ICV Custom Report

Data File Name	03131202.D
Data File Path	C:\HPCHEM\1\GCMS9\DATA\031312\
Operator	ms
Date Acquired	3/13/2012 10:04
Acq. Method File	8260C
Sample Name	25 PPB CCV
Instrument Name	GCMS9

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	103181	80167	40083.5	160334	TRUE
Pentafluorobenzene	546178	492791	246395.5	985582	TRUE
1,4-Difluorobenzene	868477	798415	399207.5	1596830	TRUE
Chlorobenzene-d5	732570	646440	323220	1292880	TRUE
1,4-Dichlorobenzene-d4	334932	305368	152684	610736	TRUE

Name	Amount	Spike Level	%REC.	Low	High	T/F
Ethanol	6.56	250	3%	36%	150%	FALSE NR
tert-Butanol (TBA)	27.99	125	22%	70%	134%	FALSE
Dichlorodifluoromethane	23.32	25	93%	60%	140%	TRUE
Chloromethane	23.58	25	94%	48%	144%	TRUE
Vinyl Chloride	22.03	25	88%	80%	120%	TRUE
1,3-Butadiene	22.61	25	90%	50%	141%	TRUE
Bromomethane	20.96	25	84%	40%	144%	TRUE
Chloroethane	20.93	25	84%	60%	132%	TRUE
Acrolein	0.00	25	0%	80%	120%	FALSE NR
Trichlorofluoromethane	21.42	25	86%	68%	136%	TRUE
Acetone	22.44	25	90%	12%	150%	TRUE
Acrylonitrile	0.00	25	0%	80%	120%	FALSE NR
Iodomethane	19.96	25	80%	40%	150%	TRUE
1,1-Dichloroethene	21.03	25	84%	80%	120%	TRUE
Methylene Chloride	19.23	25	77%	68%	128%	TRUE
Freon 113	20.43	25	82%	76%	124%	TRUE
Carbon Disulfide	20.33	25	81%	64%	136%	TRUE 3/14/12
trans-1,2-Dichloroethene	20.53	25	82%	76%	120%	TRUE
MTBE	22.04	25	88%	64%	140%	TRUE
1,1-Dichloroethane	19.93	25	80%	72%	124%	TRUE
Vinyl Acetate	24.19	25	97%	48%	150%	TRUE
n-Hexane	23.20	25	93%	56%	150%	TRUE
2-Butanone (MEK)	21.03	25	84%	44%	150%	TRUE
Diisopropylether (DIPE)	20.67	25	83%	72%	132%	TRUE
cis-1,2-Dichloroethene	21.58	25	86%	72%	128%	TRUE
Bromochloromethane	21.68	25	87%	72%	132%	TRUE
Chloroform	19.93	25	80%	80%	120%	~~FALSE~~ TRUE MJ 3/14/12
2,2-Dichloropropane	21.10	25	84%	64%	140%	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	22.55	25	90%	72%	140%	TRUE
Dibromofluoromethane(surr)	22.98	25	92%	80%	120%	TRUE
Tetrahydrofuran	23.45	25	94%	64%	139%	TRUE
1,2-Dichloroethane	19.86	25	79%	68%	136%	TRUE

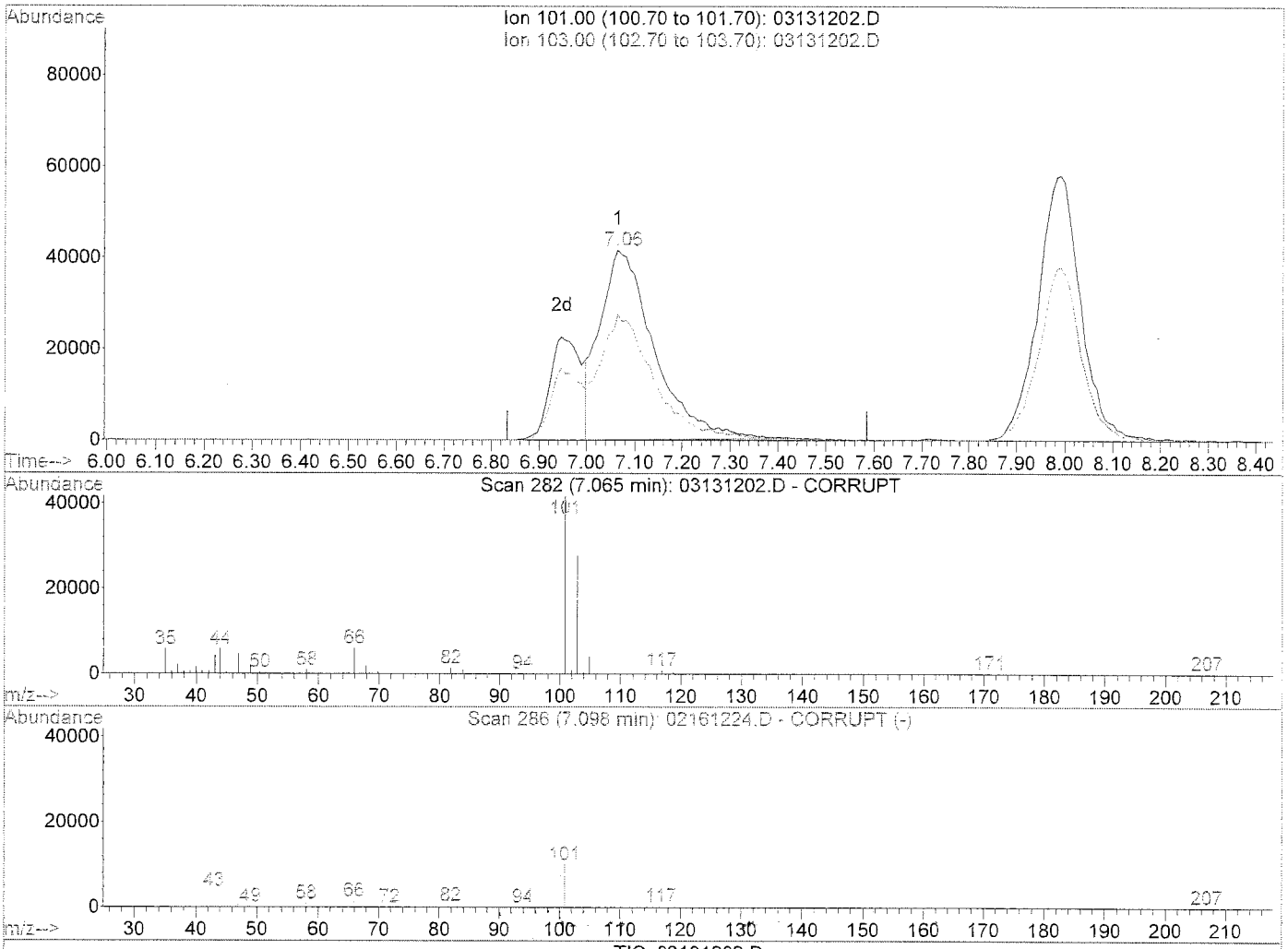
MJ 3/14/12

1,1,1-Trichloroethane	20.55	25	82%	72%	132%	TRUE
(TAME) tert-Amyl methyl ether	22.59	25	90%	68%	140%	TRUE
1,1-Dichloropropene	22.39	25	90%	76%	128%	TRUE
Carbon Tetrachloride	20.84	25	83%	72%	136%	TRUE
Benzene	21.87	25	87%	76%	120%	TRUE
Dibromomethane	21.26	25	85%	72%	132%	TRUE
1,2-Dichloropropane	21.54	25	86%	80%	120%	TRUE
Trichloroethene	21.16	25	85%	80%	120%	TRUE
Bromodichloromethane	20.46	25	82%	76%	128%	TRUE
2-Chloroethyl vinylether	23.72	25	95%	10%	150%	TRUE
cis-1,3-Dichloropropene	23.96	25	96%	76%	136%	TRUE
4-Methyl-2-pentanone (MIBK)	22.44	25	90%	60%	144%	TRUE
trans-1,3-Dichloropropene	22.14	25	89%	68%	140%	TRUE
1,1,2-Trichloroethane	22.33	25	89%	72%	132%	TRUE
Toluene-d8 (surr)	25.02	25	100%	80%	120%	TRUE
Toluene	22.22	25	89%	80%	120%	TRUE
1,3-Dichloropropane	21.19	25	85%	80%	124%	TRUE
2-Hexanone	22.25	25	89%	52%	150%	TRUE
Dibromochloromethane	21.19	25	85%	80%	128%	TRUE
1,2-Dibromoethane	22.04	25	88%	80%	128%	TRUE
Tetrachloroethene	21.86	25	87%	76%	128%	TRUE
1,1,1,2-Tetrachloroethane	21.82	25	87%	76%	124%	TRUE
Chlorobenzene	21.54	25	86%	80%	120%	TRUE
Ethylbenzene	22.72	25	91%	80%	120%	TRUE
m,p-Xylene	23.10	25	92%	80%	120%	TRUE
Styrene	23.31	25	93%	84%	124%	TRUE
o-Xylene	22.15	25	89%	72%	128%	TRUE
4-Bromofluorobenzene (surr)	23.91	25	96%	80%	120%	TRUE
Bromoform	21.93	25	88%	68%	132%	TRUE
1,1,2,2-Tetrachloroethane	21.27	25	85%	68%	132%	TRUE
1,2,3-Trichloropropane	22.64	25	91%	76%	128%	TRUE
trans-1,4-Dichloro-2-butene	22.79	25	91%	48%	138%	TRUE
Isopropylbenzene	23.50	25	94%	76%	132%	TRUE
Bromobenzene	22.53	25	90%	76%	128%	TRUE
n-Propylbenzene	23.22	25	93%	76%	132%	TRUE
2-Chlorotoluene	21.97	25	88%	80%	124%	TRUE
4-Chlorotoluene	22.10	25	88%	80%	124%	TRUE
1,3,5-Trimethylbenzene	22.56	25	90%	80%	128%	TRUE
tert-Butylbenzene	23.68	25	95%	76%	132%	TRUE
1,2,4-Trimethylbenzene	23.10	25	92%	80%	128%	TRUE
sec-Butylbenzene	22.79	25	91%	80%	128%	TRUE
1,3-Dichlorobenzene	22.10	25	88%	80%	124%	TRUE
1,4-Dichlorobenzene	21.43	25	86%	76%	120%	TRUE
4-Isopropyltoluene	22.85	25	91%	80%	128%	TRUE
1,2-Dichlorobenzene	23.00	25	92%	80%	124%	TRUE
n-Butylbenzene	23.09	25	92%	76%	132%	TRUE
1,2-Dibromo-3-chloropropane	23.89	25	96%	64%	128%	TRUE
1,2,4-Trichlorobenzene	26.08	25	104%	76%	128%	TRUE
Naphthalene	26.60	25	106%	68%	136%	TRUE
Hexachlorobutadiene	23.63	25	95%	76%	132%	TRUE
1,2,3-Trichlorobenzene	26.07	25	104%	72%	128%	TRUE

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



TIC: 03131202.D

(12) Trichlorofluoromethane (T)

7.06min 16.02ug/L

response 326967

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	65.68
0.00	0.00	0.00
0.00	0.00	0.00

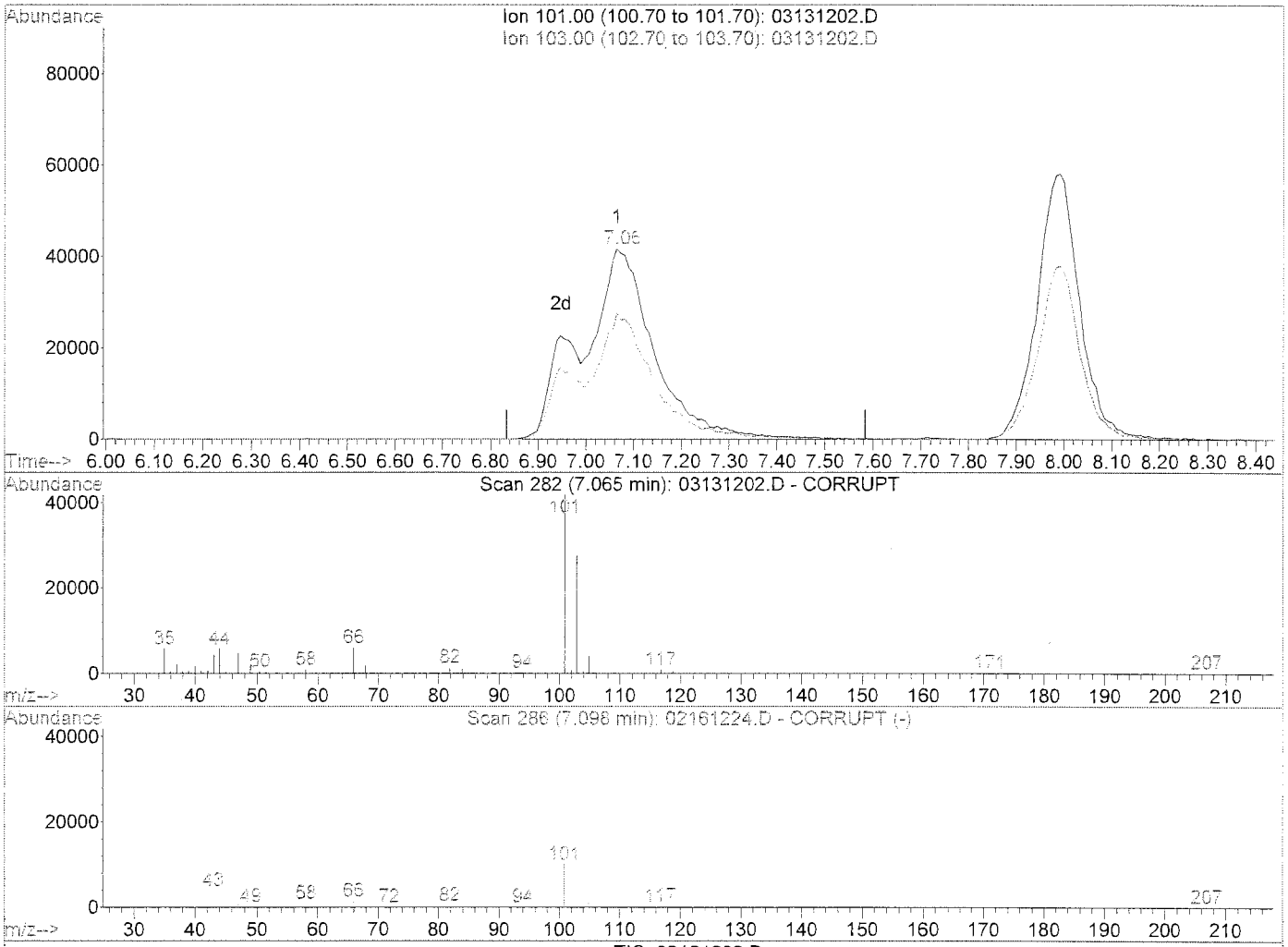
B SP
3/14/12

03131202.D 031212.M Wed Mar 14 11:15:32 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.06min 21.42ug/L m

response 437094

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.21
0.00	0.00	0.00
0.00	0.00	0.00

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03131202.D 031212.M Wed Mar 14 11:15:36 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	103181	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	546178	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	868477	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	732570	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	334932	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	302505	22.98 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.92%	
50) Toluene-d8 (surr)	14.19	98	972861	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.08%	
64) 4-Bromofluorobenzene (surr	17.83	95	358725	23.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.64%	

Target Compounds					Qvalue
2) Ethanol	6.31	45	423	6.56 ug/L	97
3) tert-Butanol (TBA)	7.71	59	25202	27.99 ug/L #	83
5) Dichlorodifluoromethane	4.89	85	586839	23.32 ug/L	99
6) Chloromethane	5.11	50	681159	23.58 ug/L	98
7) Vinyl Chloride	5.46	62	536662	22.03 ug/L	99
8) 1,3-Butadiene	5.56	54	325914	22.61 ug/L	97
9) Bromomethane	6.00	94	370208	20.96 ug/L	99
10) Chloroethane	6.18	64	299761	20.93 ug/L	98
12) Trichlorofluoromethane	7.06	101	437094m	21.42 ug/L	
13) Acetone	7.10	43	99811	22.44 ug/L	99
15) Iodomethane	7.77	142	504089	19.96 ug/L	98
16) 1,1-Dichloroethene	7.71	96	334651	21.03 ug/L	96
17) Methylene Chloride	7.87	84	373821	19.23 ug/L	97
18) Freon 113	7.99	101	361497	20.43 ug/L	99
19) Carbon Disulfide	8.28	76	887098	20.33 ug/L #	95
20) trans-1,2-Dichloroethene	8.74	96	373243	20.53 ug/L	99
21) MTBE	8.87	73	603632	22.04 ug/L	100
22) 1,1-Dichloroethane	9.06	63	652960	19.93 ug/L	99
23) Vinyl Acetate	9.21	43	564674	24.19 ug/L	100
24) n-Hexane	9.55	86	72359	23.20 ug/L	97
25) 2-Butanone (MEK)	9.59	72	21062	21.03 ug/L #	58
26) Diisopropylether (DIPE)	9.60	45	1251332	20.67 ug/L	99
27) cis-1,2-Dichloroethene	9.79	96	356334	21.58 ug/L	99
28) Bromochloromethane	10.00	128	145384	21.68 ug/L	95
29) Chloroform	10.06	83	574559	19.93 ug/L	99
30) 2,2-Dichloropropane	10.17	77	361401	21.10 ug/L	96
31) (ETBE) 2-Ethoxy-2-methyl p	10.11	59	847181	22.55 ug/L	99
33) Tetrahydrofuran	10.48	72	16347	23.45 ug/L #	84
34) 1,2-Dichloroethane	10.89	62	361322	19.86 ug/L	99
35) 1,1,1-Trichloroethane	11.03	97	464951	20.55 ug/L	98
36) (TAME) tert-Amyl methyl et	11.72	73	581347	22.59 ug/L	98
38) 1,1-Dichloropropene	11.25	75	421735	22.39 ug/L	99
39) Carbon Tetrachloride	11.50	117	406014	20.84 ug/L	98
40) Benzene	11.55	78	1092864	21.87 ug/L	98
41) Dibromomethane	12.27	93	154117	21.26 ug/L	97
42) 1,2-Dichloropropane	12.31	63	304287	21.54 ug/L	98

(#) = qualifier out of range (m) = manual integration

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

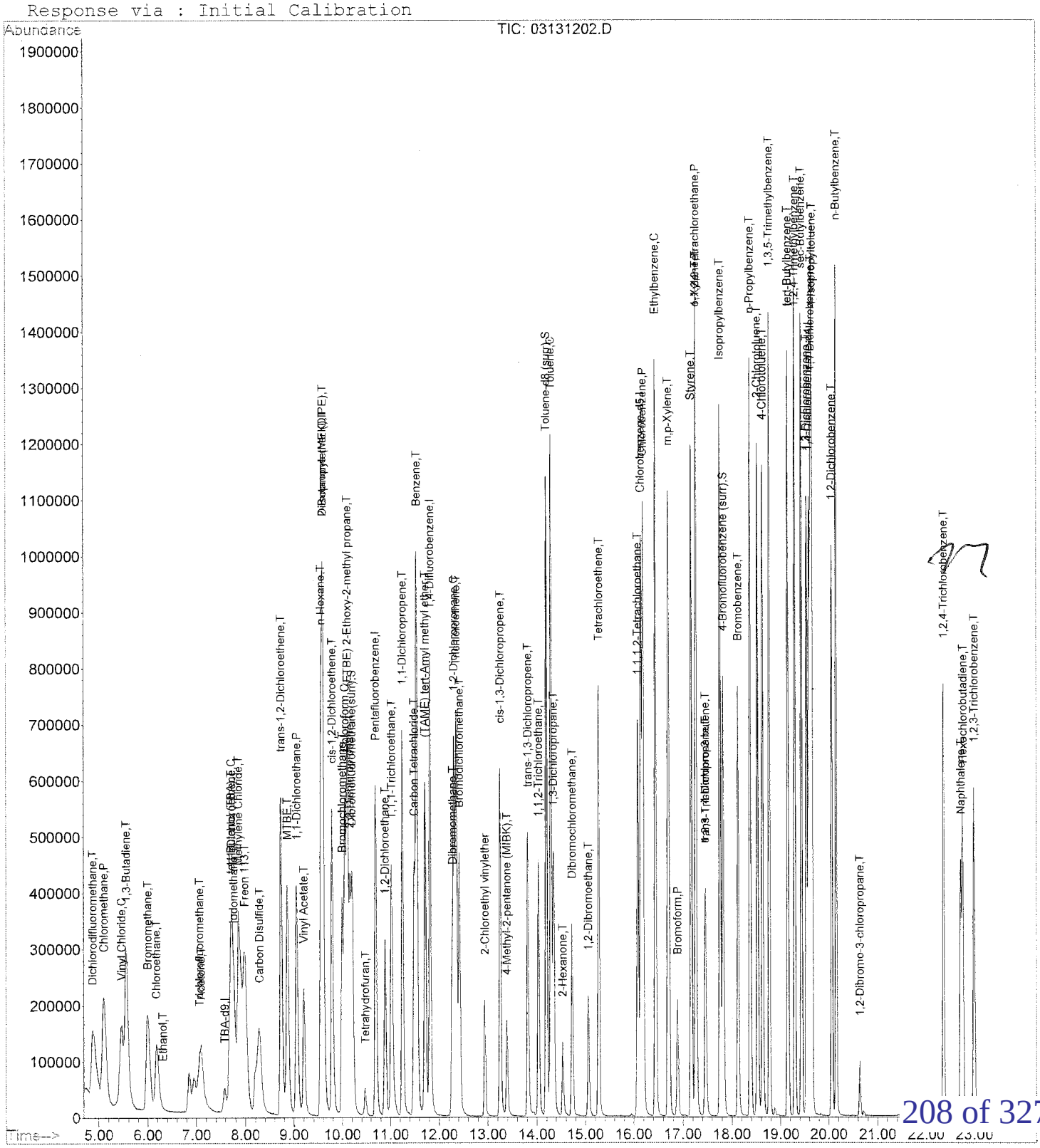
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.36	95	310411	21.16 ug/L	97
44)	Bromodichloromethane	12.42	83	387849	20.46 ug/L	99
45)	2-Chloroethyl vinylether	12.94	63	106781	23.72 ug/L	100
46)	cis-1,3-Dichloropropene	13.25	75	436585	23.96 ug/L	97
47)	4-Methyl-2-pentanone (MIBK	13.39	43	175747	22.44 ug/L	95
48)	trans-1,3-Dichloropropene	13.82	75	351542	22.14 ug/L	97
49)	1,1,2-Trichloroethane	14.03	97	194107	22.33 ug/L	97
51)	Toluene	14.30	92	686904	22.22 ug/L	99
53)	1,3-Dichloropropane	14.35	76	327327	21.19 ug/L	99
54)	2-Hexanone	14.53	43	130385	22.25 ug/L	98
55)	Dibromochloromethane	14.73	129	235193	21.19 ug/L	100
56)	1,2-Dibromoethane	15.06	107	196020	22.04 ug/L	99
57)	Tetrachloroethene	15.28	164	235406	21.86 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.09	131	263755	21.82 ug/L	98
59)	Chlorobenzene	16.20	112	775389	21.54 ug/L	98
60)	Ethylbenzene	16.44	91	1285752	22.72 ug/L	99
61)	m,p-Xylene	16.71	106	515586	23.10 ug/L	96
62)	Styrene	17.17	104	796729	23.31 ug/L	98
63)	o-Xylene	17.26	106	490152	22.15 ug/L	99
66)	Bromoform	16.89	173	130165	21.93 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	188125	21.27 ug/L	98
68)	1,2,3-Trichloropropane	17.46	110	54485	22.64 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	68670	22.79 ug/L	96
70)	Isopropylbenzene	17.76	105	1130970	23.50 ug/L	99
71)	Bromobenzene	18.13	156	276970	22.53 ug/L	97
72)	n-Propylbenzene	18.37	91	1431563	23.22 ug/L	99
73)	2-Chlorotoluene	18.52	91	887099	21.97 ug/L	98
74)	4-Chlorotoluene	18.63	91	896583	22.10 ug/L	98
75)	1,3,5-Trimethylbenzene	18.77	105	1009041	22.56 ug/L	98
76)	tert-Butylbenzene	19.15	119	803678	23.68 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1048987	23.10 ug/L	98
78)	sec-Butylbenzene	19.43	105	1267741	22.79 ug/L	100
79)	1,3-Dichlorobenzene	19.54	146	539005	22.10 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	522148	21.43 ug/L	100
81)	4-Isopropyltoluene	19.66	119	1035405	22.85 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	469182	23.00 ug/L	99
83)	n-Butylbenzene	20.15	91	980795	23.09 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	27829	23.89 ug/L	94
85)	1,2,4-Trichlorobenzene	22.37	180	348994	26.08 ug/L	99
86)	Naphthalene	22.72	128	477049	26.60 ug/L	99
87)	Hexachlorobutadiene	22.77	225	161206	23.63 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	269823	26.07 ug/L	100

(#) = qualifier out of range (m) = manual integration
03131202.D 031212.M Wed Mar 14 11:16:00 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:15 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	129	0.00
2	T	Ethanol	0.125	0.003	97.6#	4#	0.13
3	T	tert-Butanol (TBA)	1.745	0.391	77.6#	28#	0.02
4	I	Pentafluorobenzene	1.000	1.000	0.0	111	0.00
5	T	Dichlorodifluoromethane	1.152	1.074	6.8	103	-0.01
6	P	Chloromethane	1.322	1.247	5.7	105	-0.02
7	C	Vinyl Chloride	1.115	0.983	11.8	95	-0.02
8	T	1,3-Butadiene	0.660	0.597	9.5	97	0.00
9	T	Bromomethane	0.808	0.678	16.1	97	0.00
10	T	Chloroethane	0.656	0.549	16.3	93	-0.02
11		Acrolein	0.000	0.000	0.0	0#	-0.07
12	T	Trichlorofluoromethane	0.934	0.800	14.3	88	-0.02
13	T	Acetone	0.204	0.183	10.3	110	-0.01
14		Acrylonitrile	0.000	0.000	0.0	0#	0.00
15	T	Iodomethane	1.156	0.923	20.2	90	-0.01
16	C	1,1-Dichloroethene	0.728	0.613	15.8	94	0.00
17	T	Methylene Chloride	0.890	0.684	23.1	92	0.00
18	T	Freon 113	0.810	0.662	18.3	91	-0.01
19	T	Carbon Disulfide	1.997	1.624	18.7	90	-0.02
20	T	trans-1,2-Dichloroethene	0.832	0.683	17.9	90	0.00
21	T	MTBE	1.253	1.105	11.8	95	0.00
22	P	1,1-Dichloroethane	1.500	1.196	20.3	88	0.00
23	T	Vinyl Acetate	1.069	1.034	3.3	97	0.00
24	T	n-Hexane	0.143	0.132	7.7	96	0.00
25	T	2-Butanone (MEK)	0.046	0.039	15.2	102	0.00
26	T	Diisopropylether (DIPE)	2.772	2.291	17.4	90	0.01
27	T	cis-1,2-Dichloroethene	0.756	0.652	13.8	93	0.00
28	T	Bromochloromethane	0.307	0.266	13.4	94	0.00
29	C	Chloroform	1.320	1.052	20.3	89	0.00
30	T	2,2-Dichloropropane	0.784	0.662	15.6	95	0.01
31	T	(ETBE) 2-Ethoxy-2-methyl pr	1.720	1.551	9.8	93	0.00
32	S	Dibromofluoromethane(surr)	0.602	0.554	8.0	107	0.00
33	T	Tetrahydrofuran	0.032	0.030	6.3	109	0.00
34	T	1,2-Dichloroethane	0.833	0.662	20.5	89	0.00
35	T	1,1,1-Trichloroethane	1.036	0.851	17.9	91	0.00
36	T	(TAME) tert-Amyl methyl eth	1.178	1.064	9.7	95	0.00
37	I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
38	T	1,1-Dichloropropene	0.542	0.486	10.3	92	0.00
39	T	Carbon Tetrachloride	0.561	0.468	16.6	90	0.00
40	T	Benzene	1.438	1.258	12.5	93	0.00
41	T	Dibromomethane	0.209	0.177	15.3	92	0.00
42	C	1,2-Dichloropropane	0.407	0.350	14.0	92	0.00
43	T	Trichloroethene	0.422	0.357	15.4	91	0.00
44	T	Bromodichloromethane	0.546	0.447	18.1	89	0.00
45		2-Chloroethyl vinylether	0.114	0.123	-7.9	109	0.00
46	T	cis-1,3-Dichloropropene	0.524	0.503	4.0	93	0.00
47	T	4-Methyl-2-pentanone (MIBK)	0.225	0.202	10.2	97	0.00
48	T	trans-1,3-Dichloropropene	0.416	0.405	2.6	94	0.00

(#) = Out of Range

3/14/12
M

M/3/14/12

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131202.D Vial: 2
Acq On : 13 Mar 2012 10:04 am Operator: ms
Sample : 25 PPB CCV Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,1,2-Trichloroethane	0.250	0.224	10.4	98	0.00
50	S	Toluene-d8 (surr)	1.119	1.120	-0.1	109	0.00
51	C	Toluene	0.890	0.791	11.1	93	0.00
52	I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00
53	T	1,3-Dichloropropane	0.527	0.447	15.2	94	0.00
54	T	2-Hexanone	0.200	0.178	11.0	101	0.00
55	T	Dibromochloromethane	0.379	0.321	15.3	94	0.00
56	T	1,2-Dibromoethane	0.303	0.268	11.6	97	0.00
57	T	Tetrachloroethene	0.368	0.321	12.8	96	0.00
58	T	1,1,1,2-Tetrachloroethane	0.412	0.360	12.6	97	0.01
59	P	Chlorobenzene	1.228	1.058	13.8	95	0.00
60	C	Ethylbenzene	1.931	1.755	9.1	94	0.00
61	T	m,p-Xylene	0.762	0.704	7.6	94	0.00
62	T	Styrene	1.120	1.088	2.9	95	0.00
63	T	o-Xylene	0.755	0.669	11.4	92	0.00
64	S	4-Bromofluorobenzene (surr)	0.512	0.490	4.3	107	0.00
65	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
66	P	Bromoform	0.443	0.389	12.2	93	0.00
67	P	1,1,2,2-Tetrachloroethane	0.660	0.562	14.8	94	0.00
68	T	1,2,3-Trichloropropane	0.180	0.163	9.4	95	0.00
69	T	trans-1,4-Dichloro-2-butene	0.225	0.205	8.9	92	0.00
70	T	Isopropylbenzene	3.592	3.377	6.0	92	0.00
71	T	Bromobenzene	0.918	0.827	9.9	94	0.00
72	T	n-Propylbenzene	4.602	4.274	7.1	92	0.00
73	T	2-Chlorotoluene	3.014	2.649	12.1	91	0.00
74	T	4-Chlorotoluene	3.028	2.677	11.6	90	0.00
75	T	1,3,5-Trimethylbenzene	3.338	3.013	9.7	90	0.00
76	T	tert-Butylbenzene	2.534	2.400	5.3	92	0.00
77	T	1,2,4-Trimethylbenzene	3.390	3.132	7.6	91	0.00
78	T	sec-Butylbenzene	4.152	3.785	8.8	91	0.00
79	T	1,3-Dichlorobenzene	1.821	1.609	11.6	96	0.00
80	T	1,4-Dichlorobenzene	1.819	1.559	14.3	93	0.00
81	T	4-Isopropyltoluene	3.383	3.091	8.6	94	0.00
82	T	1,2-Dichlorobenzene	1.523	1.401	8.0	94	0.00
83	T	n-Butylbenzene	3.170	2.928	7.6	91	0.00
84	T	1,2-Dibromo-3-chloropropane	0.087	0.083	4.6	96	0.00
85	T	1,2,4-Trichlorobenzene	0.999	1.042	-4.3	98	0.00
86	T	Naphthalene	1.339	1.424	-6.3	101	0.00
87	T	Hexachlorobutadiene	0.509	0.481	5.5	100	0.00
88	T	1,2,3-Trichlorobenzene	0.773	0.806	-4.3	100	0.00

M

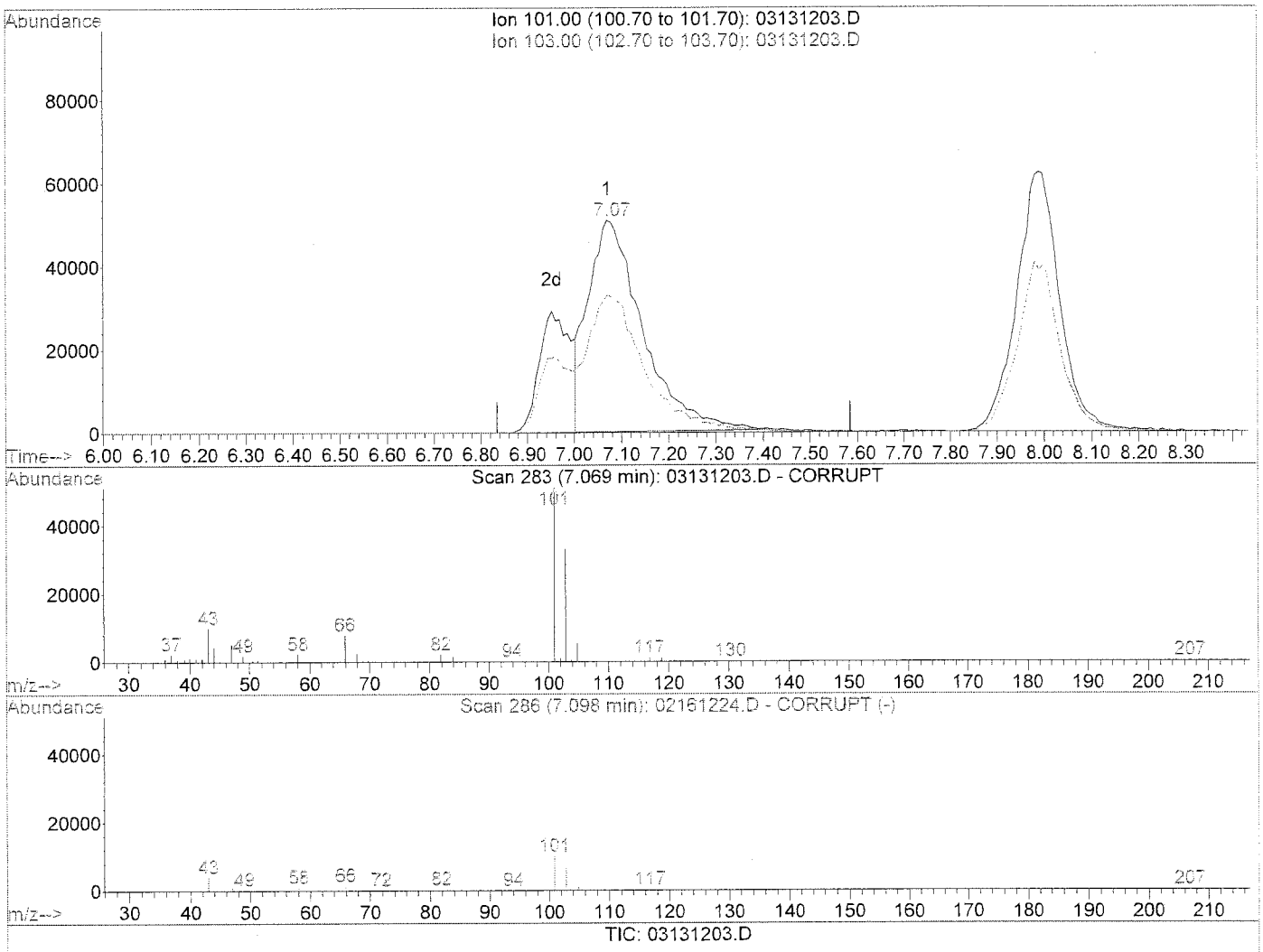
ok

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03131202.D 031212.M Wed Mar 14 11:16:25 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 19.62ug/L

response 407980

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.77
0.00	0.00	0.00
0.00	0.00	0.00

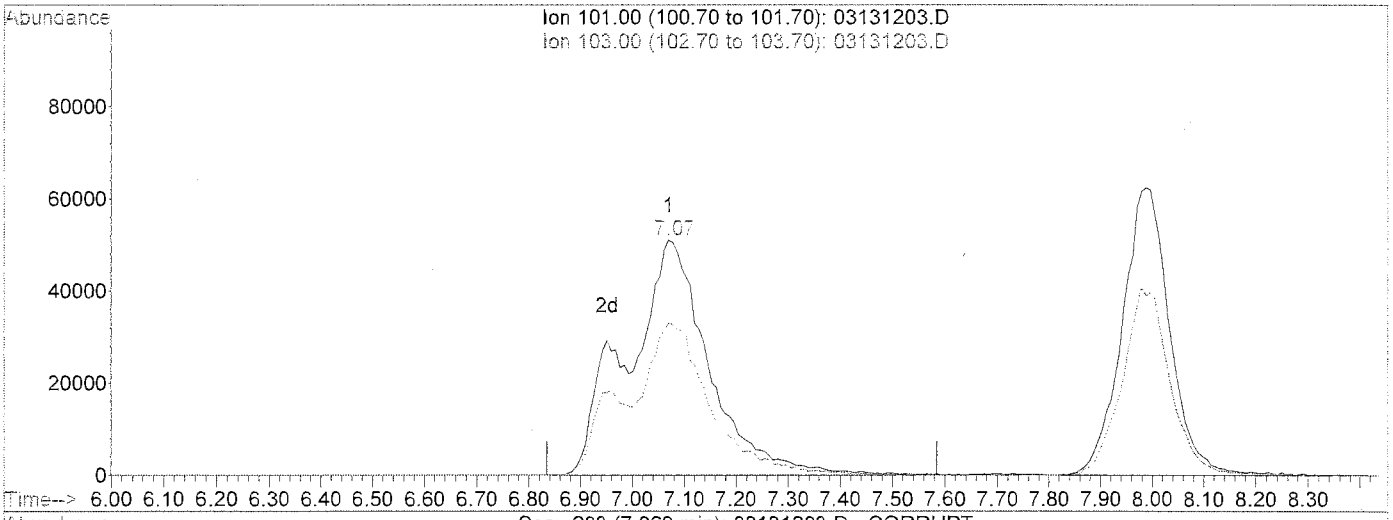
B SP
3/14/12

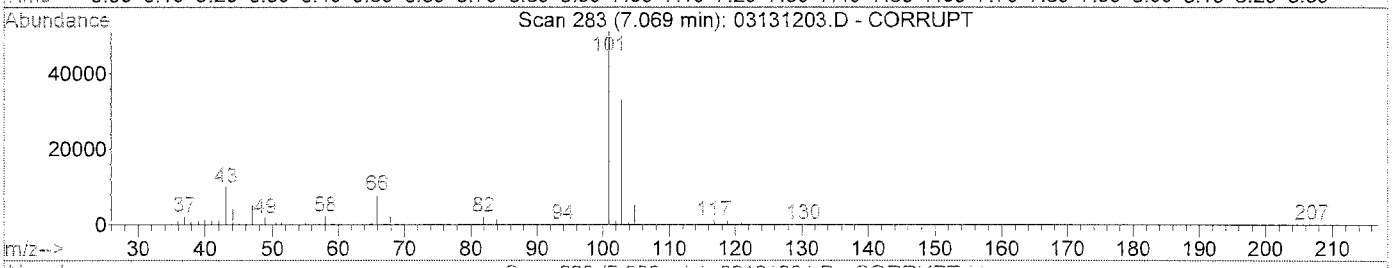
03131203.D 031212.M Wed Mar 14 11:16:47 2012

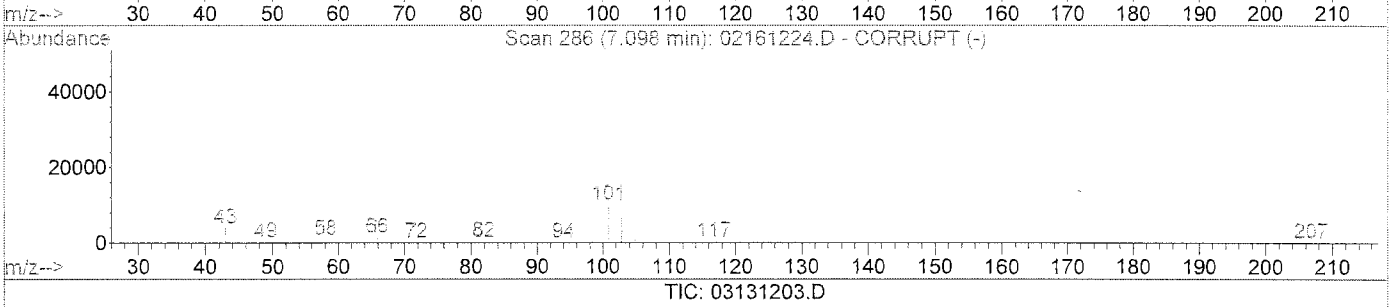
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration







TIC: 03131203.D

(12) Trichlorofluoromethane (T)

7.07min 26.72ug/L m

response 555582

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.79
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131203.D 031212.M Wed Mar 14 11:16:51 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.58	65	97160	200.00	ug/L	0.01
4) Pentafluorobenzene	10.69	168	556460	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	883180	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.15	117	770542	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	344004	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	311309	23.21	ug/L	0.00
Spiked Amount 25.000			Recovery = 92.84%			
50) Toluene-d8 (surr)	14.19	98	1004504	25.41	ug/L	0.00
Spiked Amount 25.000			Recovery = 101.64%			
64) 4-Bromofluorobenzene (surr	17.82	95	371495	23.54	ug/L	0.00
Spiked Amount 25.000			Recovery = 94.16%			

Target Compounds						Qvalue
2) Ethanol	6.18	45	656	10.80	ug/L #	39
3) tert-Butanol (TBA)	7.71	59	26141	30.84	ug/L #	80
5) Dichlorodifluoromethane	4.90	85	617425	24.09	ug/L	100
6) Chloromethane	5.12	50	799209	27.15	ug/L	98
7) Vinyl Chloride	5.47	62	634176	25.55	ug/L	100
8) 1,3-Butadiene	5.56	54	492535	33.54	ug/L	98
9) Bromomethane	5.99	94	441563	24.54	ug/L	98
10) Chloroethane	6.18	64	360742	24.72	ug/L	99
12) Trichlorofluoromethane	7.07	101	555582m	26.72	ug/L	
13) Acetone	7.10	43	139617	30.81	ug/L	98
15) Iodomethane	7.78	142	672790	26.15	ug/L	98
16) 1,1-Dichloroethene	7.72	96	388842	23.99	ug/L	97
17) Methylene Chloride	7.86	84	428123	21.62	ug/L	98
18) Freon 113	7.99	101	396532	22.00	ug/L	100
19) Carbon Disulfide	8.29	76	1077261	24.23	ug/L	95
20) trans-1,2-Dichloroethene	8.74	96	467071	25.22	ug/L	99
21) MTBE	8.86	73	709736	25.44	ug/L	100
22) 1,1-Dichloroethane	9.06	63	783932	23.48	ug/L	100
23) Vinyl Acetate	9.20	43	699749	29.42	ug/L	100
24) n-Hexane	9.55	86	73838	23.24	ug/L	99
25) 2-Butanone (MEK)	9.60	72	30236	29.63	ug/L #	1
26) Diisopropylether (DIPE)	9.59	45	1506827	24.42	ug/L	98
27) cis-1,2-Dichloroethene	9.78	96	442293	26.30	ug/L	99
28) Bromochloromethane	9.99	128	175657	25.72	ug/L	95
29) Chloroform	10.05	83	677494	23.07	ug/L	99
30) 2,2-Dichloropropane	10.16	77	421498	24.16	ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	924828	24.16	ug/L	100
33) Tetrahydrofuran	10.47	72	19444	27.38	ug/L #	86
34) 1,2-Dichloroethane	10.89	62	436680	23.56	ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	536637	23.28	ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	693555	26.45	ug/L	98
38) 1,1-Dichloropropene	11.25	75	494669	25.83	ug/L	97
39) Carbon Tetrachloride	11.49	117	474248	23.94	ug/L	99
40) Benzene	11.54	78	1340156	26.38	ug/L	98
41) Dibromomethane	12.26	93	188513	25.57	ug/L	98
42) 1,2-Dichloropropane	12.30	63	366089	25.49	ug/L	98

(#) = qualifier out of range (m) = manual integration
03131203.D 031212.M Wed Mar 14 11:18:12 2012

3/14/12

M/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	374424	25.10 ug/L	98
44)	Bromodichloromethane	12.42	83	480653	24.94 ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	128974	27.92 ug/L	98
46)	cis-1,3-Dichloropropene	13.25	75	554756	29.94 ug/L	96
47)	4-Methyl-2-pentanone (MIBK	13.38	43	228745	28.72 ug/L	98
48)	trans-1,3-Dichloropropene	13.80	75	417765	25.83 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	228793	25.88 ug/L	98
51)	Toluene	14.28	92	841755	26.78 ug/L	100
53)	1,3-Dichloropropane	14.34	76	400338	24.63 ug/L	100
54)	2-Hexanone	14.53	43	212344	34.45 ug/L	99
55)	Dibromochloromethane	14.72	129	286848	24.57 ug/L	99
56)	1,2-Dibromoethane	15.06	107	235780	25.21 ug/L	99
57)	Tetrachloroethene	15.27	164	278563	24.59 ug/L	98
58)	1,1,1,2-Tetrachloroethane	16.08	131	315370	24.81 ug/L	99
59)	Chlorobenzene	16.19	112	931494	24.60 ug/L	98
60)	Ethylbenzene	16.44	91	1604550	26.95 ug/L	99
61)	m,p-Xylene	16.70	106	626560	26.69 ug/L	96
62)	Styrene	17.16	104	961808	26.74 ug/L	99
63)	o-Xylene	17.26	106	605686	26.03 ug/L	99
66)	Bromoform	16.89	173	162214	26.61 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	235453	25.92 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	65758	26.60 ug/L	98
69)	trans-1,4-Dichloro-2-buten	17.47	53	70261	22.71 ug/L	98
70)	Isopropylbenzene	17.76	105	1535912	31.08 ug/L	99
71)	Bromobenzene	18.13	156	347890	27.55 ug/L	95
72)	n-Propylbenzene	18.37	91	1824505	28.81 ug/L	99
73)	2-Chlorotoluene	18.51	91	1074996	25.92 ug/L	98
74)	4-Chlorotoluene	18.62	91	1095444	26.29 ug/L	98
75)	1,3,5-Trimethylbenzene	18.77	105	1242795	27.06 ug/L	99
76)	tert-Butylbenzene	19.15	119	1006469	28.87 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1257245	26.95 ug/L	98
78)	sec-Butylbenzene	19.42	105	1554827	27.21 ug/L	99
79)	1,3-Dichlorobenzene	19.53	146	661286	26.40 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	634703	25.36 ug/L	100
81)	4-Isopropyltoluene	19.65	119	1241707	26.68 ug/L	99
82)	1,2-Dichlorobenzene	20.06	146	569624	27.19 ug/L	99
83)	n-Butylbenzene	20.15	91	1208872	27.71 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	34111	28.51 ug/L	92
85)	1,2,4-Trichlorobenzene	22.37	180	436051	31.72 ug/L	98
86)	Naphthalene	22.72	128	593440	32.22 ug/L	99
87)	Hexachlorobutadiene	22.76	225	193977	27.68 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	339424	31.92 ug/L	100

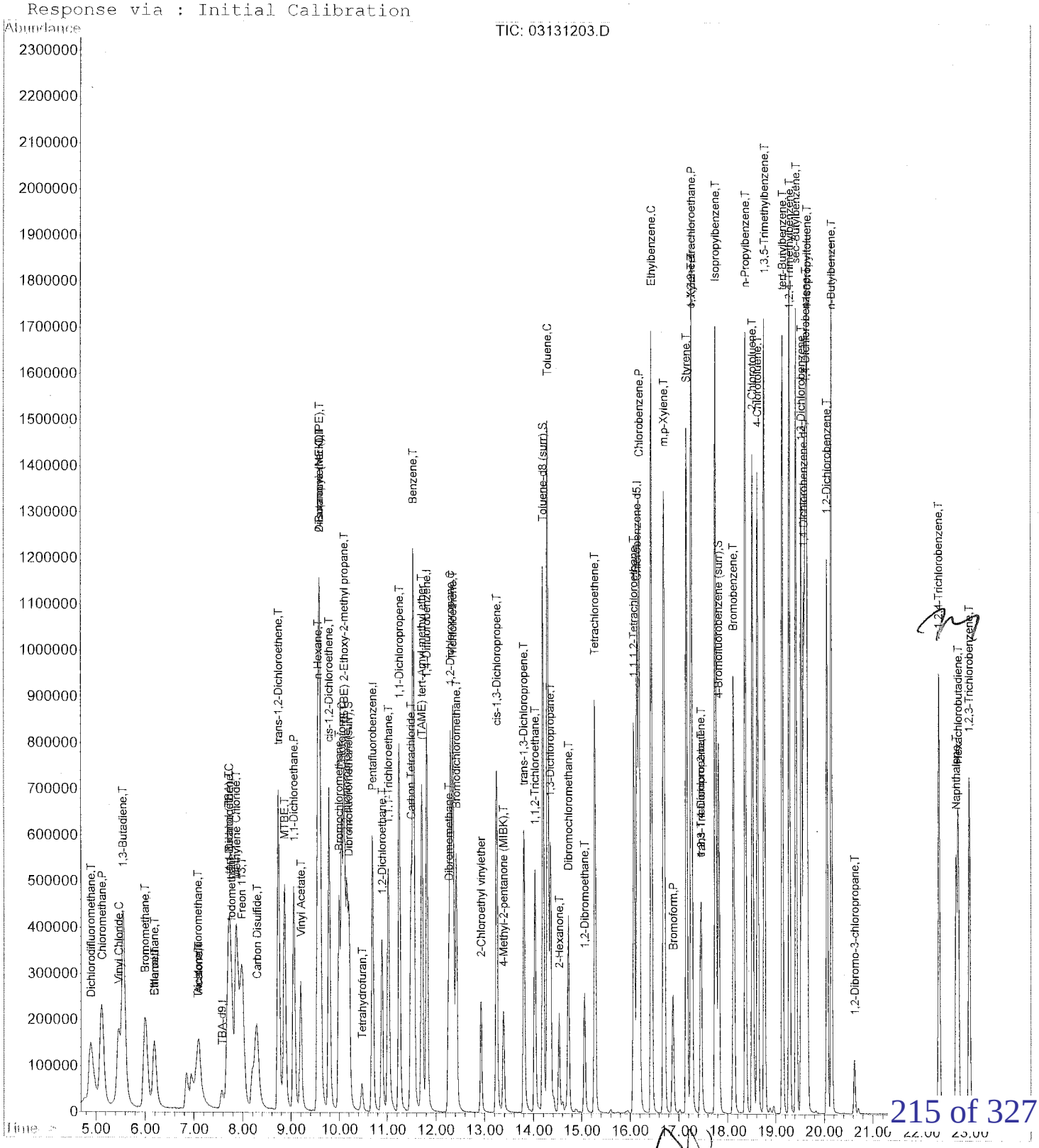
M

(#) = qualifier out of range (m) = manual integration
03131203.D 031212.M Wed Mar 14 11:18:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131203.D Vial: 3
Acq On : 13 Mar 2012 10:45 am Operator: JH
Sample : 12C0524-BS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:16 2012 Quant Results File: 031212.RES

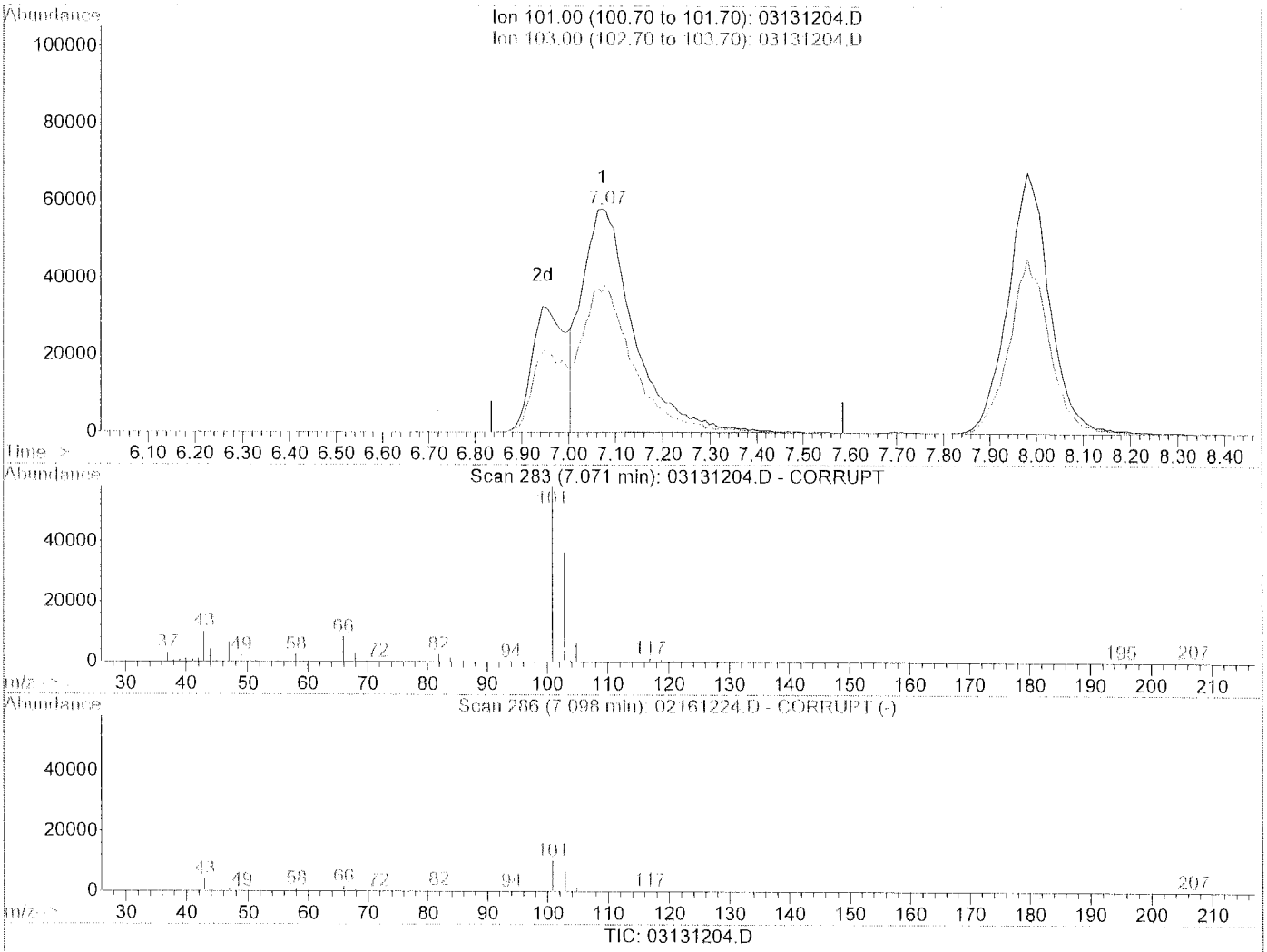
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 21.04ug/L

response 440231

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.18
0.00	0.00	0.00
0.00	0.00	0.00

B SP
3/14/12
m

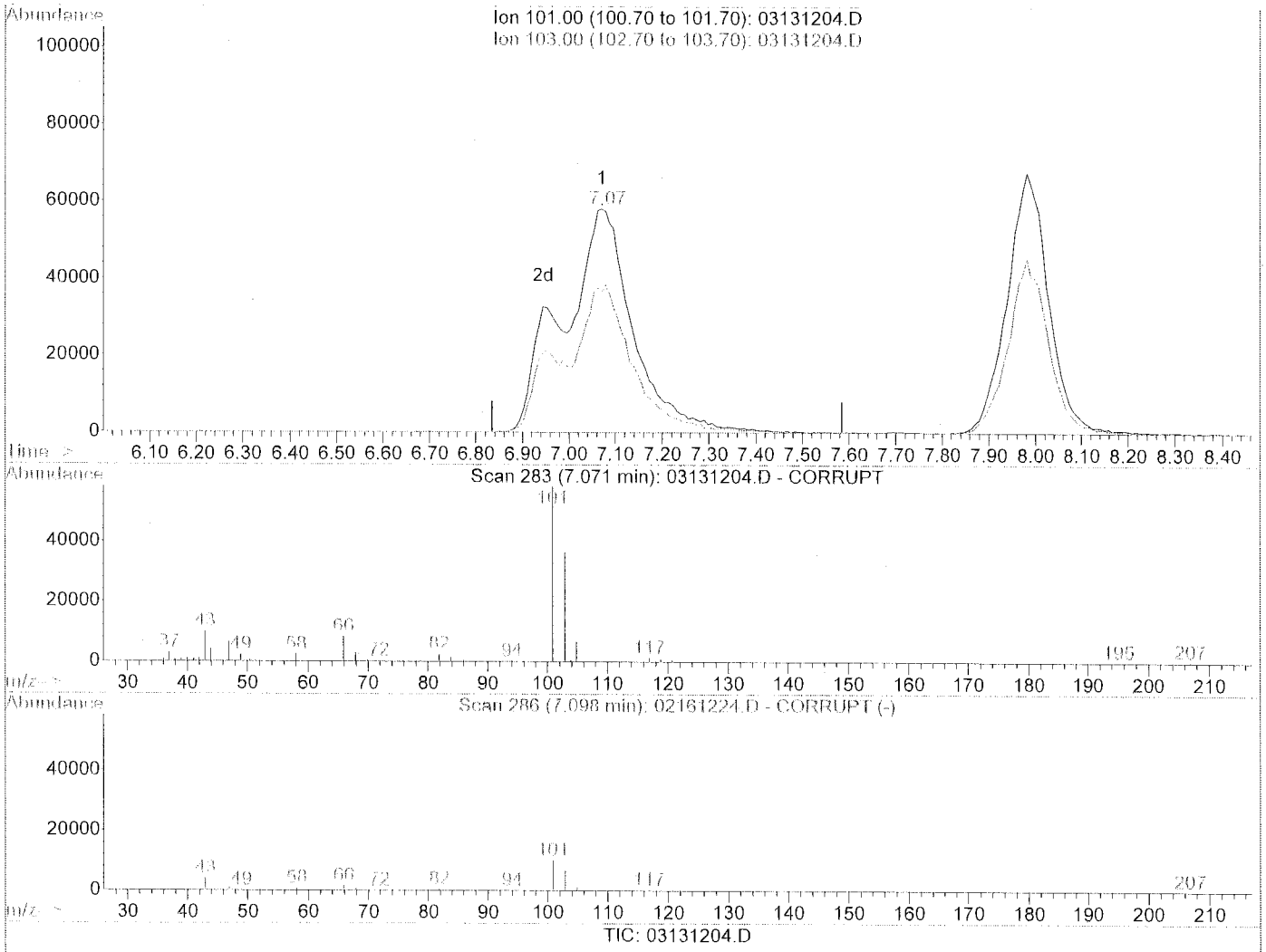
m 4/14/12

03131204.D 031212.M Wed Mar 14 11:18:42 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.07min 28.97ug/L m

response 606043

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	62.41
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131204.D 031212.M Wed Mar 14 11:18:46 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	98671	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	559959	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	903159	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	772286	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	353978	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	313869	23.26 ug/L	0.00
Spiked Amount 25.000			Recovery =	93.04%	
50) Toluene-d8 (surr)	14.19	98	1012401	25.04 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.16%	
64) 4-Bromofluorobenzene (surr	17.82	95	373341	23.61 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.44%	

Target Compounds					Qvalue
2) Ethanol	6.15	45	380	6.16 ug/L #	19
3) tert-Butanol (TBA)	7.70	59	26854	31.19 ug/L #	81
5) Dichlorodifluoromethane	4.90	85	649532	25.18 ug/L	99
6) Chloromethane	5.12	50	849182	28.67 ug/L	99
7) Vinyl Chloride	5.47	62	674006	26.99 ug/L	99
8) 1,3-Butadiene	5.56	54	526912	35.66 ug/L	97
9) Bromomethane	5.99	94	469688	25.94 ug/L	100
10) Chloroethane	6.19	64	383373	26.11 ug/L	99
12) Trichlorofluoromethane	7.07	101	606043m	28.97 ug/L	
13) Acetone	7.10	43	107183	23.50 ug/L	97
15) Iodomethane	7.76	142	716188	27.67 ug/L	98
16) 1,1-Dichloroethene	7.71	96	412979	25.32 ug/L	96
17) Methylene Chloride	7.87	84	448468	22.50 ug/L	98
18) Freon 113	7.98	101	420623	23.19 ug/L	98
19) Carbon Disulfide	8.28	76	1196368	26.74 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	490421	26.31 ug/L	98
21) MTBE	8.87	73	735531	26.20 ug/L	100
22) 1,1-Dichloroethane	9.05	63	815863	24.28 ug/L	99
23) Vinyl Acetate	9.19	43	737671	30.82 ug/L	100
24) n-Hexane	9.55	86	79899	24.99 ug/L #	93
25) 2-Butanone (MEK)	9.59	72	26206	25.52 ug/L #	44
26) Diisopropylether (DIPE)	9.59	45	1545254	24.89 ug/L	97
27) cis-1,2-Dichloroethene	9.78	96	456918	27.00 ug/L	98
28) Bromochloromethane	9.99	128	179408	26.10 ug/L	96
29) Chloroform	10.05	83	698861	23.64 ug/L	99
30) 2,2-Dichloropropane	10.16	77	451452	25.71 ug/L	98
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	957461	24.85 ug/L	99
33) Tetrahydrofuran	10.48	72	21532	30.13 ug/L #	77
34) 1,2-Dichloroethane	10.88	62	454044	24.35 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	564137	24.32 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	715313	27.11 ug/L	98
38) 1,1-Dichloropropene	11.25	75	527535	26.94 ug/L	98
39) Carbon Tetrachloride	11.49	117	505727	24.96 ug/L	98
40) Benzene	11.54	78	1424318	27.41 ug/L	98
41) Dibromomethane	12.26	93	194597	25.81 ug/L	98
42) 1,2-Dichloropropane	12.30	63	381820	26.00 ug/L	97

(#) = qualifier out of range (m) = manual integration
03131204.D 031212.M Wed Mar 14 11:19:09 2012

3/14/12

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

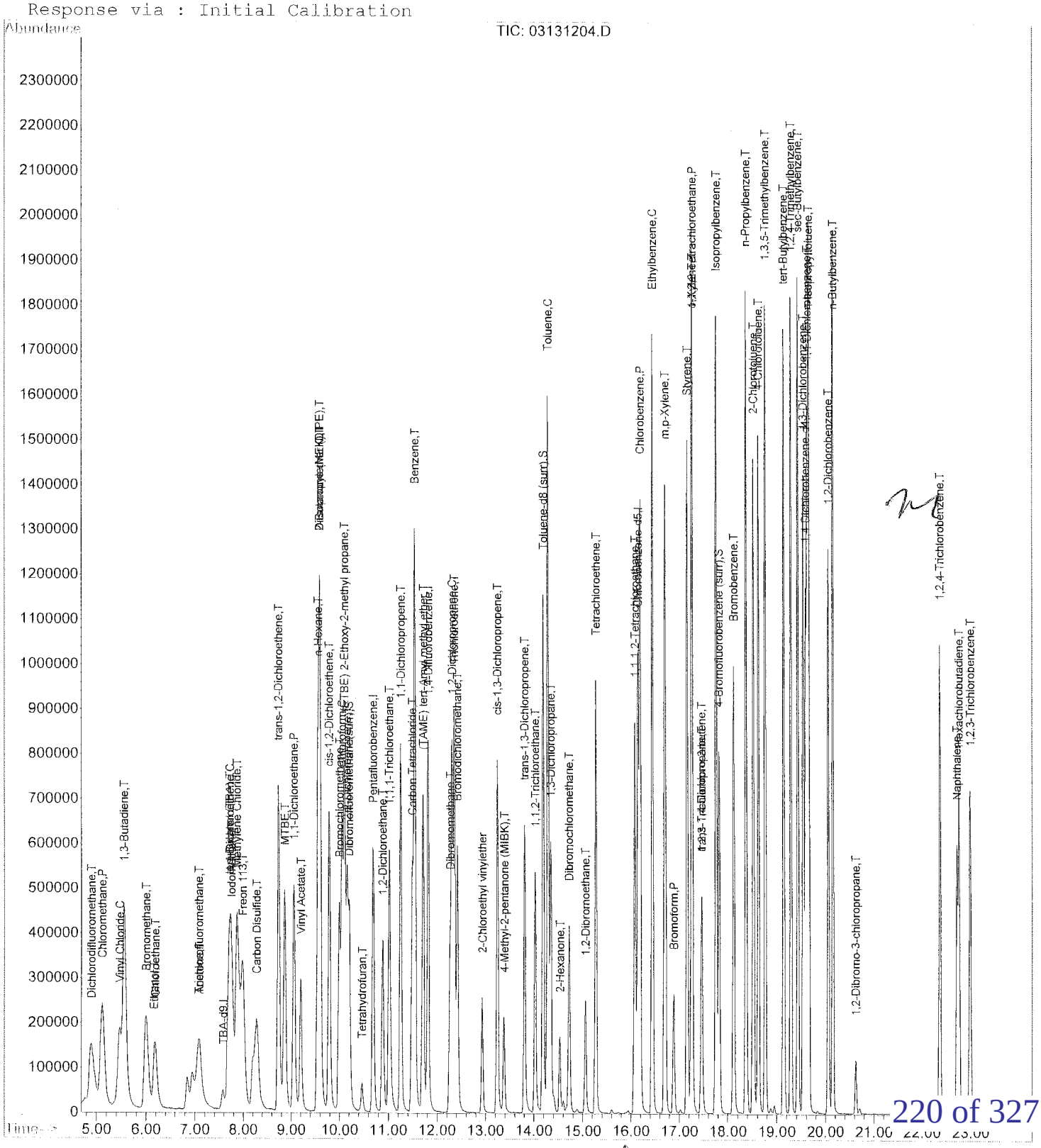
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	393104	25.76 ug/L	98
44)	Bromodichloromethane	12.41	83	484257	24.57 ug/L	99
45)	2-Chloroethyl vinylether	12.93	63	132235	27.99 ug/L	100
46)	cis-1,3-Dichloropropene	13.24	75	552964	29.18 ug/L	96
47)	4-Methyl-2-pentanone (MIBK	13.37	43	231144	28.38 ug/L	98
48)	trans-1,3-Dichloropropene	13.80	75	431730	26.10 ug/L	98
49)	1,1,2-Trichloroethane	14.02	97	237766	26.30 ug/L	96
51)	Toluene	14.28	92	889695	27.68 ug/L	98
53)	1,3-Dichloropropane	14.34	76	411020	25.23 ug/L	99
54)	2-Hexanone	14.53	43	172841	27.98 ug/L	98
55)	Dibromochloromethane	14.71	129	296275	25.32 ug/L	99
56)	1,2-Dibromoethane	15.05	107	239826	25.58 ug/L	100
57)	Tetrachloroethene	15.27	164	293633	25.86 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	327187	25.68 ug/L	98
59)	Chlorobenzene	16.19	112	964673	25.42 ug/L	98
60)	Ethylbenzene	16.44	91	1651322	27.68 ug/L	100
61)	m,p-Xylene	16.70	106	651245	27.68 ug/L	97
62)	Styrene	17.16	104	981969	27.23 ug/L	98
63)	o-Xylene	17.26	106	630024	27.01 ug/L	97
66)	Bromoform	16.88	173	171321	27.31 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	240246	25.71 ug/L	98
68)	1,2,3-Trichloropropane	17.45	110	66186	26.02 ug/L	94
69)	trans-1,4-Dichloro-2-buten	17.46	53	71329	22.40 ug/L	94
70)	Isopropylbenzene	17.76	105	1605320	31.57 ug/L	99
71)	Bromobenzene	18.12	156	357734	27.53 ug/L	95
72)	n-Propylbenzene	18.36	91	1935680	29.70 ug/L	99
73)	2-Chlorotoluene	18.52	91	1117513	26.19 ug/L	98
74)	4-Chlorotoluene	18.62	91	1139296	26.57 ug/L	97
75)	1,3,5-Trimethylbenzene	18.76	105	1300623	27.52 ug/L	99
76)	tert-Butylbenzene	19.15	119	1065394	29.70 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1304504	27.18 ug/L	99
78)	sec-Butylbenzene	19.43	105	1637257	27.85 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	681116	26.42 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	667983	25.94 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1285725	26.84 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	585664	27.17 ug/L	100
83)	n-Butylbenzene	20.15	91	1286238	28.66 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.62	75	37270	30.27 ug/L	96
85)	1,2,4-Trichlorobenzene	22.36	180	456284	32.26 ug/L	98
86)	Naphthalene	22.71	128	623271	32.88 ug/L	99
87)	Hexachlorobutadiene	22.75	225	205501	28.50 ug/L	100
88)	1,2,3-Trichlorobenzene	22.99	180	352871	32.25 ug/L	98

(#) = qualifier out of range (m) = manual integration
03131204.D 031212.M Wed Mar 14 11:19:10 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131204.D Vial: 4
Acq On : 13 Mar 2012 11:16 am Operator: JH
Sample : 12C0524-BSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:18 2012 Quant Results File: 031212.RES

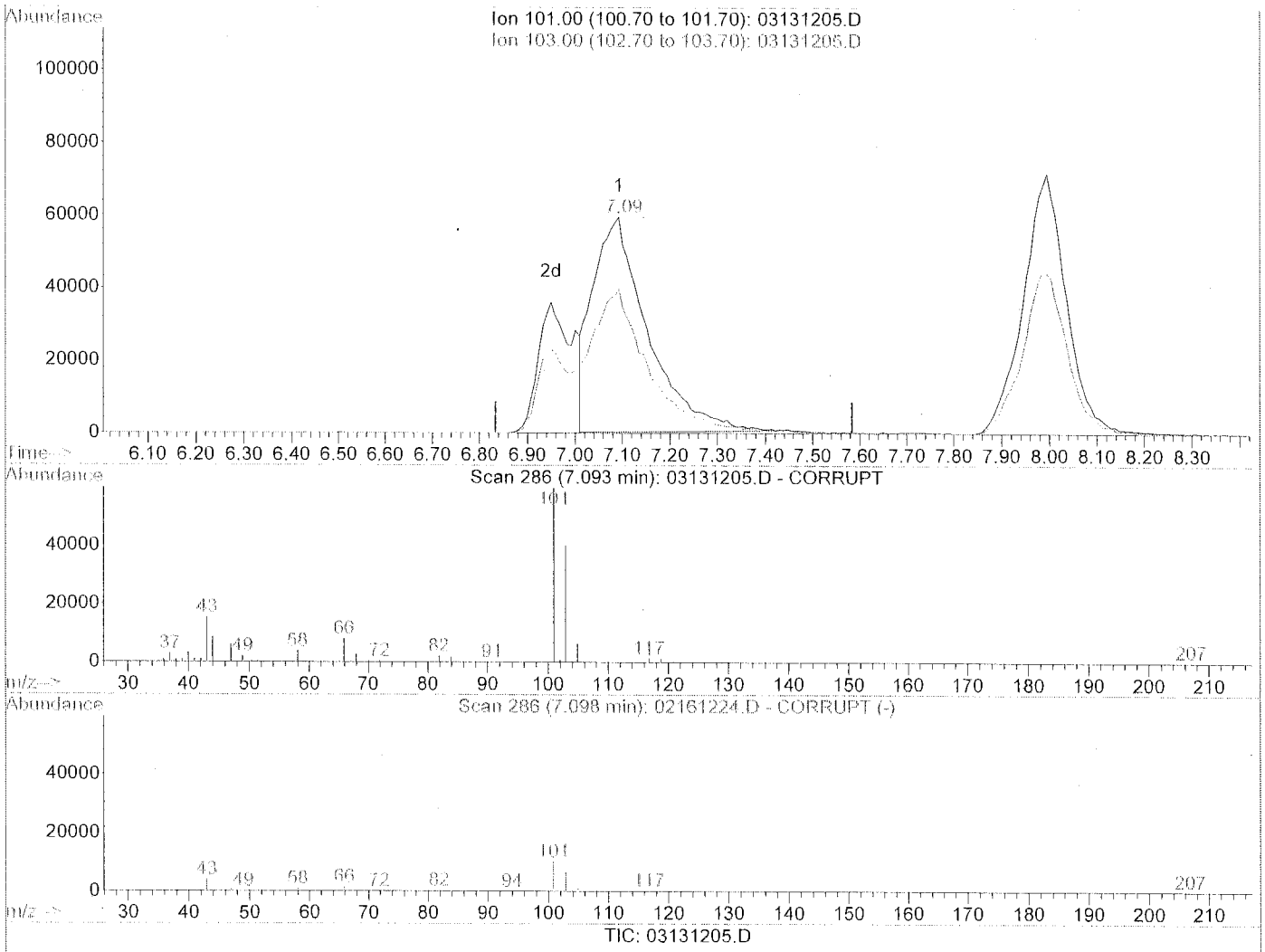
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.09min 22.43ug/L

response 479478

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.61
0.00	0.00	0.00
0.00	0.00	0.00

B SP
3/14/12

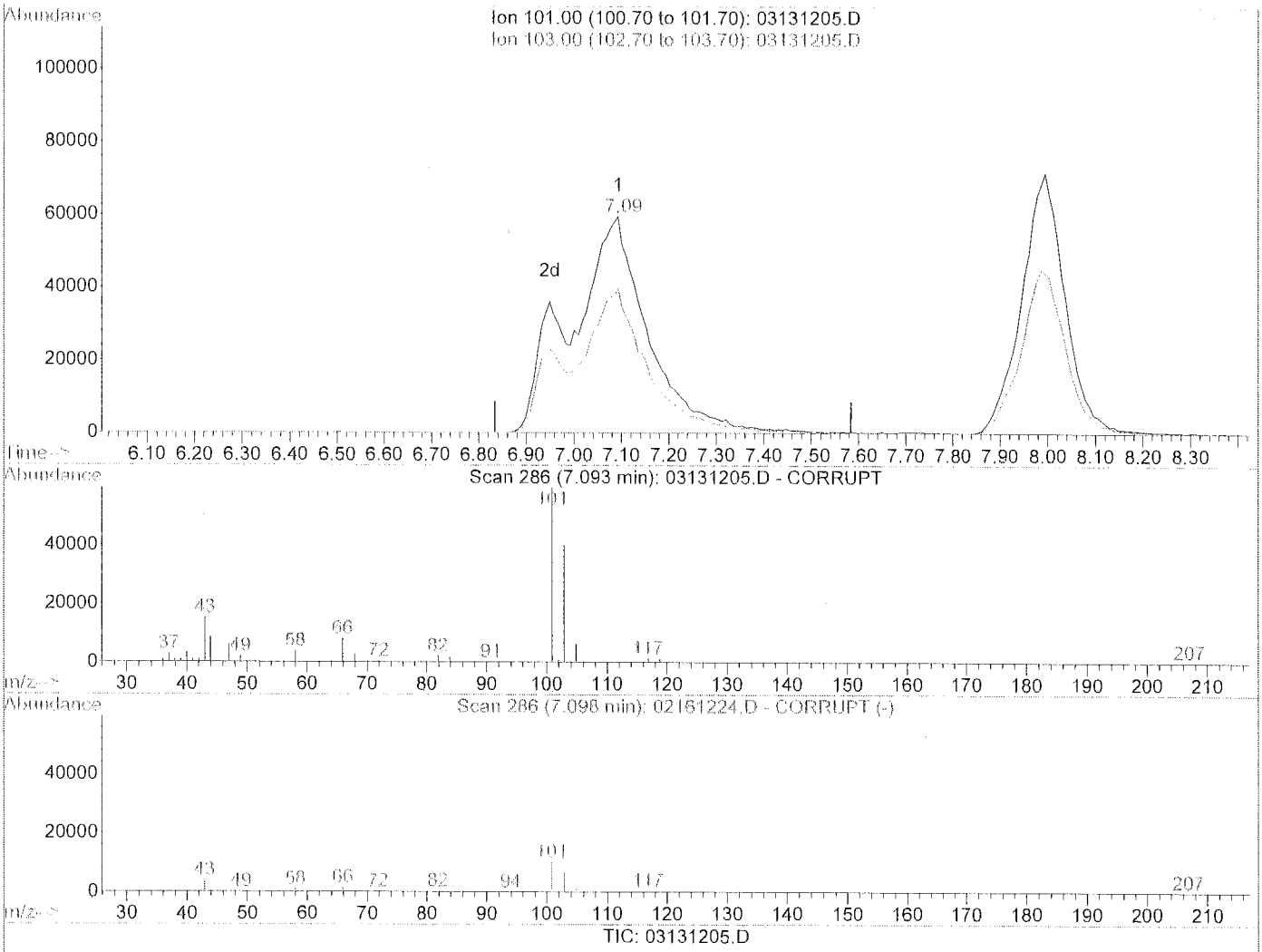
M 3/14/12

03131205.D 031212.M Wed Mar 14 11:19:36 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.09min 31.32ug/L m

response 669644

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	66.91
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131205.D 031212.M Wed Mar 14 11:19:54 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.57	65	90071	200.00	ug/L	0.00
4) Pentafluorobenzene	10.69	168	572257	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	925203	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.14	117	780597	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.58	152	356505	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	319871	23.19	ug/L	0.00
Spiked Amount 25.000			Recovery = 92.76%			
50) Toluene-d8 (surr)	14.19	98	1028282	24.83	ug/L	0.00
Spiked Amount 25.000			Recovery = 99.32%			
64) 4-Bromofluorobenzene (surr	17.82	95	376261	23.54	ug/L	0.00
Spiked Amount 25.000			Recovery = 94.16%			
Target Compounds						Qvalue
2) Ethanol	6.33	45	295	5.24	ug/L	87
3) tert-Butanol (TBA)	7.72	59	29860	37.99	ug/L #	80
5) Dichlorodifluoromethane	4.90	85	684995	25.98	ug/L	99
6) Chloromethane	5.14	50	870153	28.75	ug/L	98
7) Vinyl Chloride	5.48	62	726745	28.47	ug/L	100
8) 1,3-Butadiene	5.57	54	573458	37.97	ug/L	97
9) Bromomethane	6.01	94	478950	25.88	ug/L	100
10) Chloroethane	6.19	64	410090	27.33	ug/L	97
12) Trichlorofluoromethane	7.09	101	669644m	31.32	ug/L	
13) Acetone	7.09	43	62817	13.48	ug/L	96
15) Iodomethane	7.78	142	734383	27.76	ug/L	98
16) 1,1-Dichloroethene	7.72	96	446655	26.79	ug/L	96
17) Methylene Chloride	7.86	84	452937	22.24	ug/L	98
18) Freon 113	7.99	101	454021	24.49	ug/L	99
19) Carbon Disulfide	8.28	76	1263467	27.64	ug/L	98
20) trans-1,2-Dichloroethene	8.74	96	501233	26.32	ug/L	97
21) MTBE	8.86	73	693993	24.19	ug/L	100
22) 1,1-Dichloroethane	9.06	63	824406	24.01	ug/L	100
23) Vinyl Acetate	9.20	43	707206	28.91	ug/L	99
24) n-Hexane	9.55	86	80897	24.76	ug/L	99
25) 2-Butanone (MEK)	9.59	72	20062	19.12	ug/L #	73
26) Diisopropylether (DIPE)	9.59	45	1549360	24.42	ug/L	96
27) cis-1,2-Dichloroethene	9.78	96	467910	27.05	ug/L	98
28) Bromochloromethane	9.99	128	184842	26.31	ug/L	93
29) Chloroform	10.05	83	733280	24.28	ug/L	99
30) 2,2-Dichloropropane	10.16	77	479939	26.74	ug/L	100
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	957327	24.32	ug/L	99
33) Tetrahydrofuran	10.46	72	18255	24.99	ug/L	93
34) 1,2-Dichloroethane	10.89	62	448588	23.54	ug/L	99
35) 1,1,1-Trichloroethane	11.02	97	594992	25.10	ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	698038	25.89	ug/L	97
38) 1,1-Dichloropropene	11.25	75	566557	28.24	ug/L	98
39) Carbon Tetrachloride	11.49	117	544080	26.22	ug/L	99
40) Benzene	11.54	78	1474168	27.70	ug/L	97
41) Dibromomethane	12.27	93	189728	24.56	ug/L	97
42) 1,2-Dichloropropane	12.30	63	390466	25.95	ug/L	97

(#) = qualifier out of range (m) = manual integration
03131205.D 031212.M Wed Mar 14 11:20:18 2012

3/14/12

M 3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

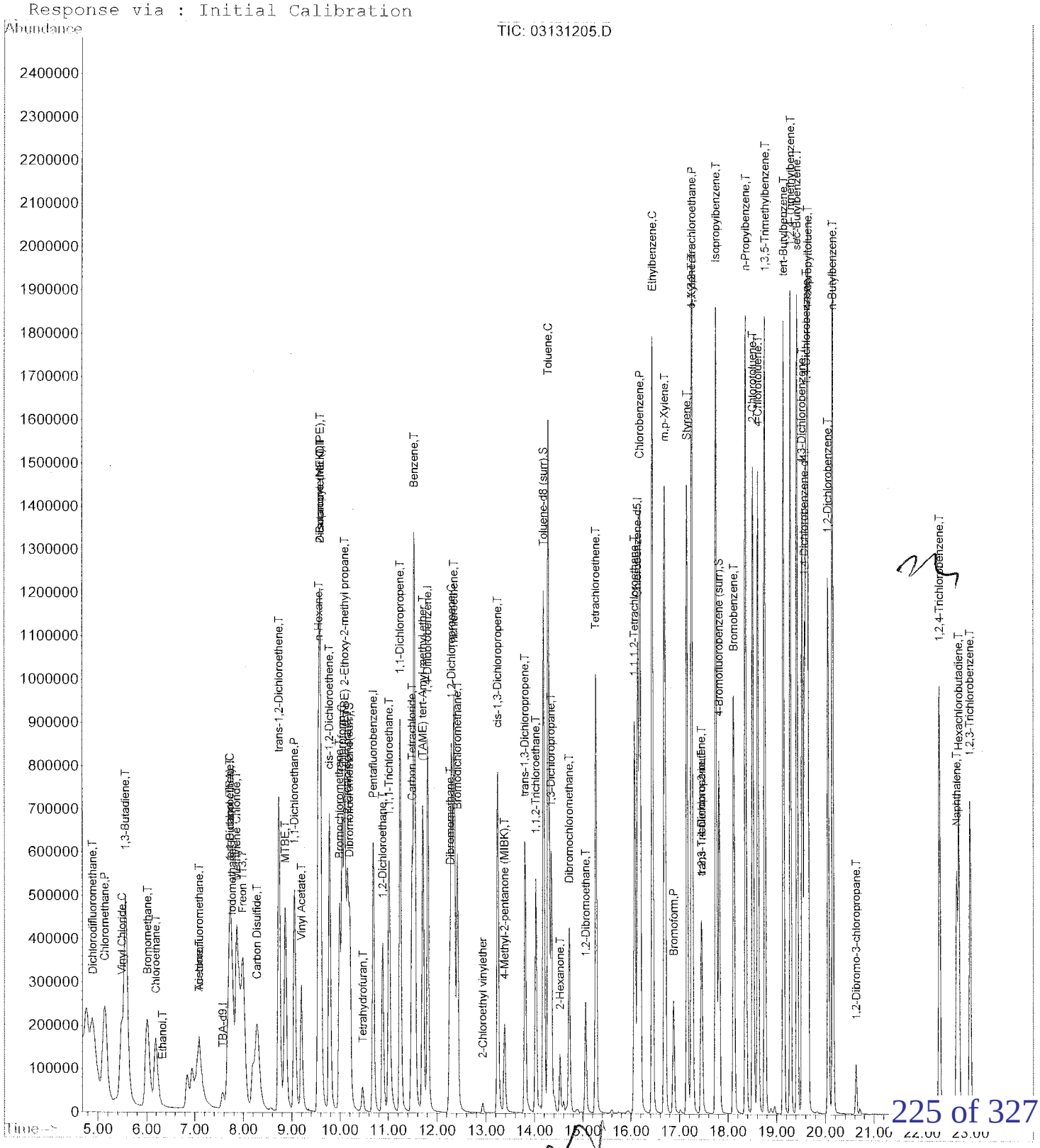
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) Trichloroethene	12.35	95	421742	26.98 ug/L	98
44) Bromodichloromethane	12.42	83	502387	24.88 ug/L	100
45) 2-Chloroethyl vinylether	12.93	63	11111	3.53 ug/L	94
46) cis-1,3-Dichloropropene	13.25	75	562891	29.00 ug/L	96
47) 4-Methyl-2-pentanone (MIBK	13.38	43	212673	25.49 ug/L	98
48) trans-1,3-Dichloropropene	13.80	75	431714	25.48 ug/L	96
49) 1,1,2-Trichloroethane	14.03	97	234546	25.33 ug/L	96
51) Toluene	14.29	92	921612	27.99 ug/L	99
53) 1,3-Dichloropropane	14.35	76	409605	24.88 ug/L	98
54) 2-Hexanone	14.53	43	135292	21.66 ug/L	97
55) Dibromochloromethane	14.72	129	294667	24.92 ug/L	100
56) 1,2-Dibromoethane	15.06	107	239266	25.25 ug/L	100
57) Tetrachloroethene	15.28	164	321874	28.05 ug/L	98
58) 1,1,1,2-Tetrachloroethane	16.08	131	334286	25.95 ug/L	98
59) Chlorobenzene	16.19	112	995594	25.96 ug/L	99
60) Ethylbenzene	16.44	91	1720318	28.53 ug/L	99
61) m,p-Xylene	16.70	106	675262	28.39 ug/L	96
62) Styrene	17.16	104	960153	26.35 ug/L	98
63) o-Xylene	17.26	106	639895	27.14 ug/L	98
66) Bromoform	16.89	173	165629	26.21 ug/L	100
67) 1,1,2,2-Tetrachloroethane	17.25	83	233810	24.84 ug/L	100
68) 1,2,3-Trichloropropane	17.45	110	64739	25.27 ug/L	97
69) trans-1,4-Dichloro-2-buten	17.47	53	68863	21.48 ug/L	97
70) Isopropylbenzene	17.75	105	1656520	32.34 ug/L	99
71) Bromobenzene	18.12	156	361082	27.59 ug/L	96
72) n-Propylbenzene	18.37	91	1982282	30.20 ug/L	98
73) 2-Chlorotoluene	18.51	91	1143809	26.62 ug/L	98
74) 4-Chlorotoluene	18.62	91	1167401	27.04 ug/L	98
75) 1,3,5-Trimethylbenzene	18.77	105	1326016	27.86 ug/L	99
76) tert-Butylbenzene	19.14	119	1086543	30.07 ug/L	97
77) 1,2,4-Trimethylbenzene	19.29	105	1288484	26.66 ug/L	98
78) sec-Butylbenzene	19.42	105	1716009	28.98 ug/L	99
79) 1,3-Dichlorobenzene	19.54	146	692869	26.69 ug/L	99
80) 1,4-Dichlorobenzene	19.62	146	669174	25.80 ug/L	99
81) 4-Isopropyltoluene	19.65	119	1336097	27.70 ug/L	99
82) 1,2-Dichlorobenzene	20.05	146	593535	27.34 ug/L	99
83) n-Butylbenzene	20.15	91	1328385	29.38 ug/L	99
84) 1,2-Dibromo-3-chloropropan	20.63	75	32757	26.42 ug/L	91
85) 1,2,4-Trichlorobenzene	22.36	180	445588	31.28 ug/L	98
86) Naphthalene	22.72	128	588416	30.82 ug/L	99
87) Hexachlorobutadiene	22.76	225	213924	29.46 ug/L	100
88) 1,2,3-Trichlorobenzene	22.99	180	337395	30.62 ug/L	100

(#) = qualifier out of range (m) = manual integration
03131205.D 031212.M Wed Mar 14 11:20:19 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131205.D Vial: 5
Acq On : 13 Mar 2012 11:49 am Operator: JH
Sample : 12C0524-MS1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:19 2012 Quant Results File: 031212.RES

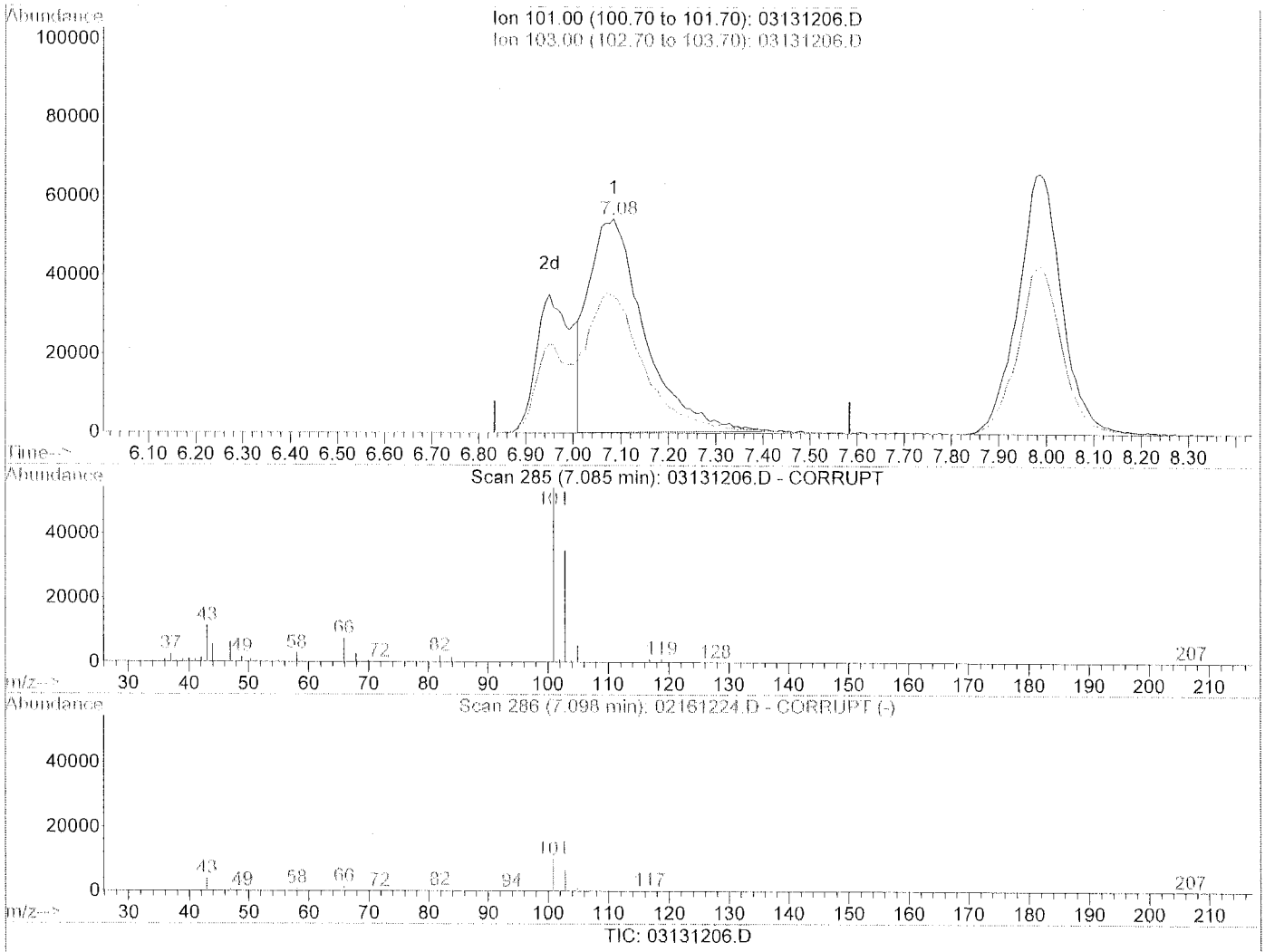
Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.08min 20.73ug/L

response 442289

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	63.86
0.00	0.00	0.00
0.00	0.00	0.00

B SP
3/14/12
M

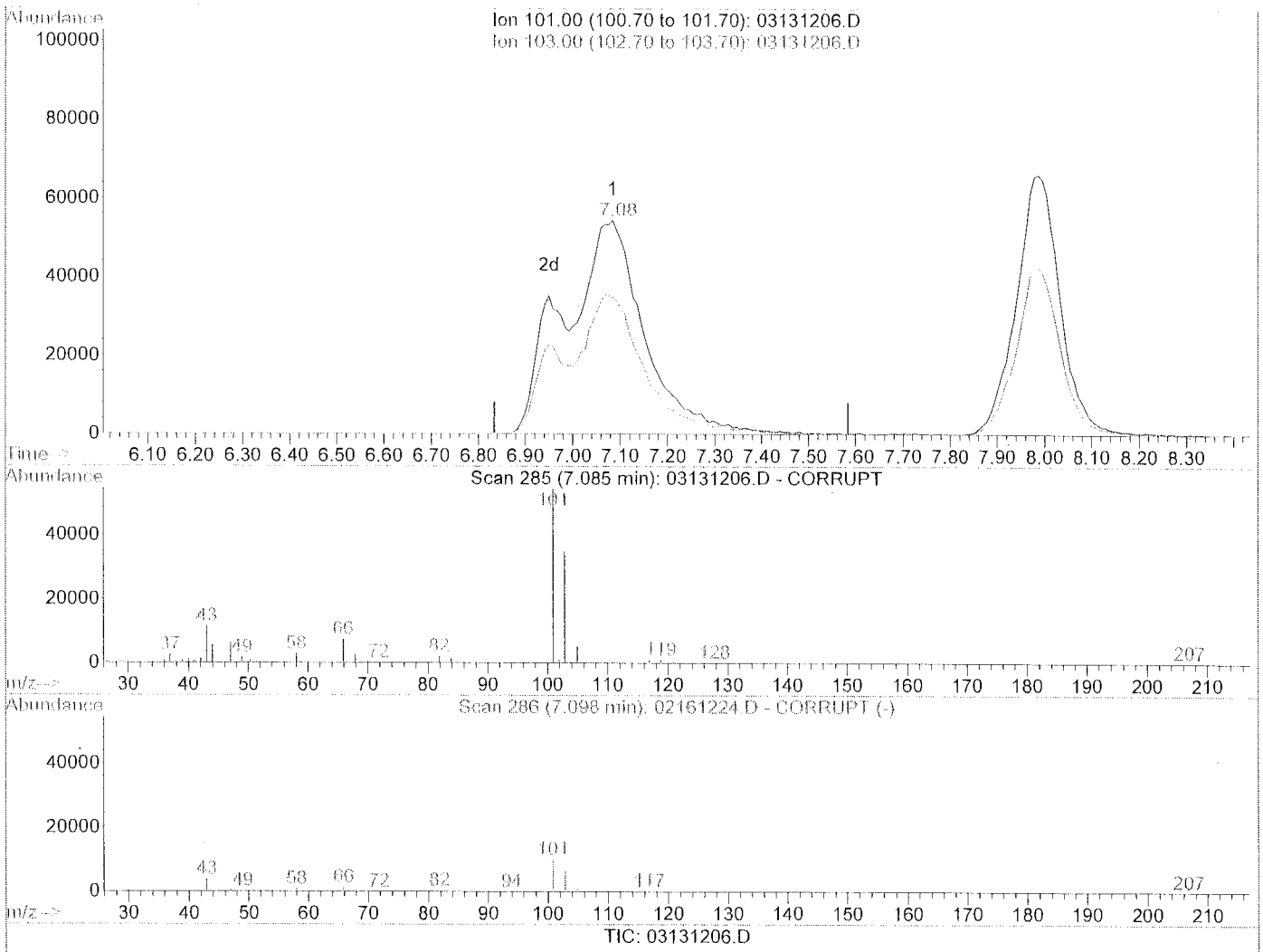
M 4/11/12

03131206.D 031212.M Wed Mar 14 11:20:59 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Multiple Level Calibration



(12) Trichlorofluoromethane (T)

7.08min 29.59ug/L m

response 631226

Ion	Exp%	Act%
101.00	100	100
103.00	66.40	64.01
0.00	0.00	0.00
0.00	0.00	0.00

3/14/12

03131206.D 031212.M Wed Mar 14 11:21:04 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93513	200.00 ug/L	0.00
4) Pentafluorobenzene	10.69	168	570944	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	918307	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	778839	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	360736	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	322329	23.43 ug/L	0.00
Spiked Amount 25.000			Recovery =	93.72%	
50) Toluene-d8 (surr)	14.19	98	1040765	25.32 ug/L	0.00
Spiked Amount 25.000			Recovery =	101.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	384488	24.11 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.44%	

Target Compounds					Qvalue
2) Ethanol	6.19	45	840	14.37 ug/L #	49
3) tert-Butanol (TBA)	7.71	59	27371	33.55 ug/L #	80
5) Dichlorodifluoromethane	4.89	85	667232	25.37 ug/L	98
6) Chloromethane	5.13	50	835819	27.68 ug/L	98
7) Vinyl Chloride	5.48	62	691811	27.17 ug/L	100
8) 1,3-Butadiene	5.56	54	595689	39.54 ug/L	98
9) Bromomethane	6.00	94	464407	25.15 ug/L	100
10) Chloroethane	6.18	64	383071	25.58 ug/L	98
12) Trichlorofluoromethane	7.08	101	631226m	29.59 ug/L	
13) Acetone	7.11	43	69257	14.89 ug/L	99
15) Iodomethane	7.77	142	708104	26.83 ug/L	98
16) 1,1-Dichloroethene	7.71	96	428116	25.74 ug/L	96
17) Methylene Chloride	7.87	84	444468	21.87 ug/L	98
18) Freon 113	7.99	101	426475	23.06 ug/L	99
19) Carbon Disulfide	8.28	76	872885	19.14 ug/L	97
20) trans-1,2-Dichloroethene	8.74	96	486420	25.60 ug/L	98
21) MTBE	8.86	73	712573	24.89 ug/L	100
22) 1,1-Dichloroethane	9.06	63	804416	23.48 ug/L	100
23) Vinyl Acetate	9.20	43	712984	29.21 ug/L	100
24) n-Hexane	9.55	86	78601	24.11 ug/L	96
25) 2-Butanone (MEK)	9.59	72	21040	20.10 ug/L #	95
26) Diisopropylether (DIPE)	9.59	45	1552466	24.53 ug/L	95
27) cis-1,2-Dichloroethene	9.78	96	456647	26.46 ug/L	98
28) Bromochloromethane	9.99	128	184028	26.26 ug/L	93
29) Chloroform	10.05	83	708639	23.51 ug/L	99
30) 2,2-Dichloropropane	10.16	77	458834	25.63 ug/L	99
31) (ETBE) 2-Ethoxy-2-methyl p	10.10	59	953050	24.26 ug/L	99
33) Tetrahydrofuran	10.46	72	20073	27.55 ug/L #	82
34) 1,2-Dichloroethane	10.89	62	448522	23.59 ug/L	100
35) 1,1,1-Trichloroethane	11.02	97	575114	24.32 ug/L	98
36) (TAME) tert-Amyl methyl et	11.71	73	707126	26.28 ug/L	97
38) 1,1-Dichloropropene	11.25	75	542443	27.24 ug/L	99
39) Carbon Tetrachloride	11.49	117	506135	24.57 ug/L	99
40) Benzene	11.54	78	1419779	26.88 ug/L	96
41) Dibromomethane	12.26	93	196736	25.66 ug/L	98
42) 1,2-Dichloropropane	12.30	63	383039	25.65 ug/L	97

(#) = qualifier out of range (m) = manual integration
03131206.D 031212.M Wed Mar 14 11:21:10 2012

3/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	Trichloroethene	12.35	95	404836	26.10 ug/L	97
44)	Bromodichloromethane	12.42	83	486496	24.27 ug/L	99
45)	2-Chloroethyl vinylether	12.96	63	169	1.38 ug/L #	48
46)	cis-1,3-Dichloropropene	13.25	75	514897	26.73 ug/L	96
47)	4-Methyl-2-pentanone (MIBK	13.38	43	221467	26.74 ug/L	97
48)	trans-1,3-Dichloropropene	13.81	75	409045	24.34 ug/L	98
49)	1,1,2-Trichloroethane	14.03	97	239908	26.10 ug/L	96
51)	Toluene	14.29	92	895151	27.39 ug/L	98
53)	1,3-Dichloropropane	14.35	76	407810	24.83 ug/L	99
54)	2-Hexanone	14.53	43	146291	23.48 ug/L	100
55)	Dibromochloromethane	14.72	129	281962	23.90 ug/L	100
56)	1,2-Dibromoethane	15.06	107	244800	25.89 ug/L	99
57)	Tetrachloroethene	15.28	164	303808	26.53 ug/L	99
58)	1,1,1,2-Tetrachloroethane	16.08	131	324450	25.25 ug/L	99
59)	Chlorobenzene	16.19	112	953797	24.92 ug/L	98
60)	Ethylbenzene	16.44	91	1661541	27.61 ug/L	100
61)	m,p-Xylene	16.70	106	651714	27.46 ug/L	96
62)	Styrene	17.16	104	969492	26.66 ug/L	98
63)	o-Xylene	17.27	106	627282	26.67 ug/L	96
66)	Bromoform	16.89	173	155861	24.38 ug/L	99
67)	1,1,2,2-Tetrachloroethane	17.25	83	238964	25.09 ug/L	99
68)	1,2,3-Trichloropropane	17.45	110	65403	25.23 ug/L	96
69)	trans-1,4-Dichloro-2-buten	17.47	53	54828	16.90 ug/L	94
70)	Isopropylbenzene	17.75	105	1615791	31.18 ug/L	99
71)	Bromobenzene	18.12	156	356001	26.89 ug/L	96
72)	n-Propylbenzene	18.37	91	1910551	28.77 ug/L	99
73)	2-Chlorotoluene	18.51	91	1103399	25.37 ug/L	98
74)	4-Chlorotoluene	18.62	91	1112567	25.46 ug/L	97
75)	1,3,5-Trimethylbenzene	18.77	105	1288544	26.75 ug/L	99
76)	tert-Butylbenzene	19.14	119	1054233	28.84 ug/L	97
77)	1,2,4-Trimethylbenzene	19.29	105	1271437	25.99 ug/L	99
78)	sec-Butylbenzene	19.43	105	1672126	27.91 ug/L	99
79)	1,3-Dichlorobenzene	19.54	146	673793	25.65 ug/L	99
80)	1,4-Dichlorobenzene	19.62	146	657768	25.06 ug/L	99
81)	4-Isopropyltoluene	19.65	119	1291687	26.46 ug/L	98
82)	1,2-Dichlorobenzene	20.06	146	571947	26.03 ug/L	99
83)	n-Butylbenzene	20.15	91	1270491	27.77 ug/L	99
84)	1,2-Dibromo-3-chloropropan	20.63	75	34270	27.31 ug/L	91
85)	1,2,4-Trichlorobenzene	22.36	180	441717	30.65 ug/L	99
86)	Naphthalene	22.72	128	604209	31.28 ug/L	100
87)	Hexachlorobutadiene	22.76	225	204799	27.87 ug/L	98
88)	1,2,3-Trichlorobenzene	22.99	180	338098	30.32 ug/L	100

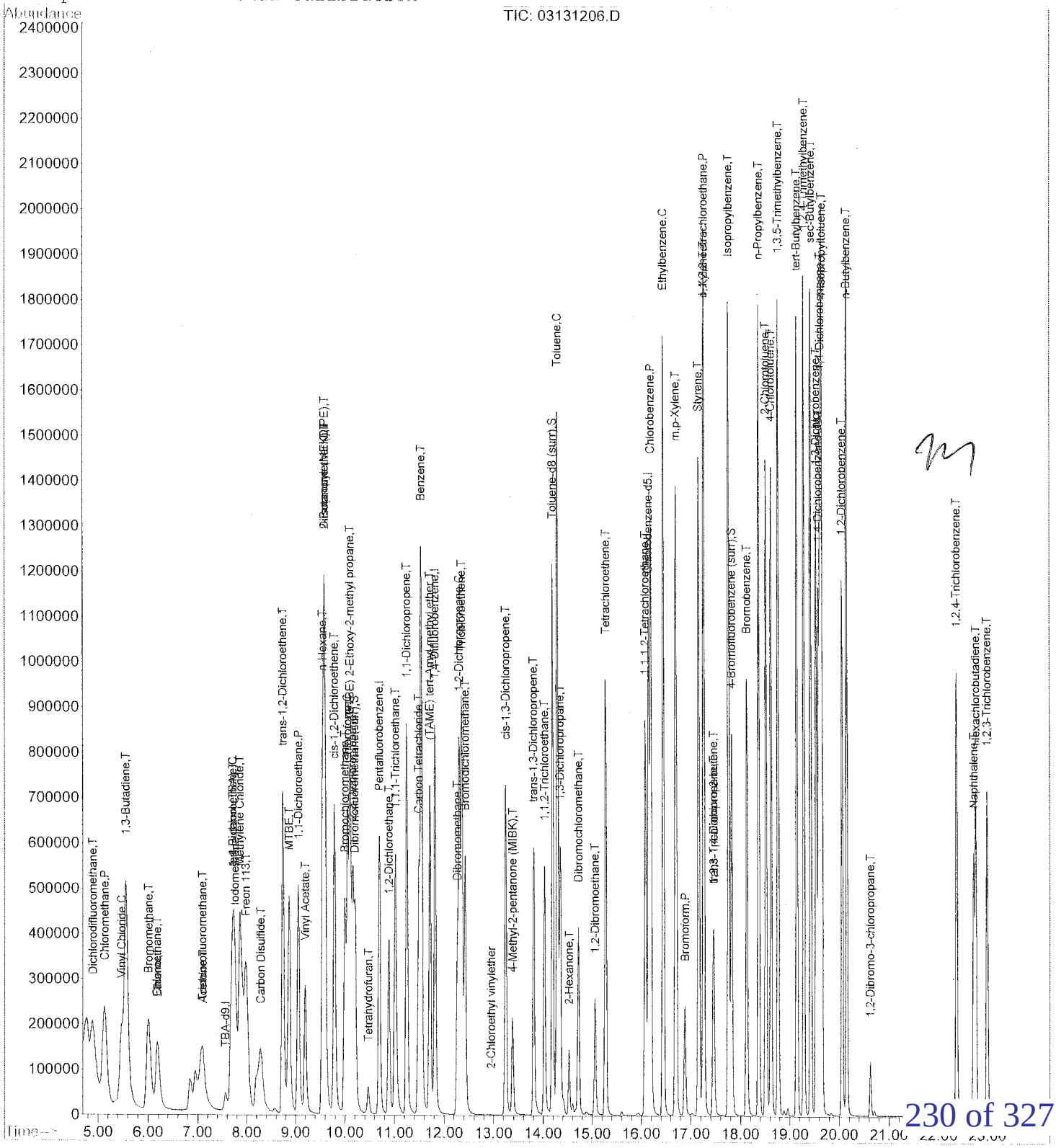
m

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131206.D Vial: 5
Acq On : 13 Mar 2012 12:21 pm Operator: JH
Sample : 12C0524-MSD1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131208.D Vial: 7
Acq On : 13 Mar 2012 1:23 pm Operator: JH
Sample : 12C0524-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	93678	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	532592	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	832093	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	704426	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	315260	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	310178	24.17 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.68%	
50) Toluene-d8 (surr)	14.20	98	934058	25.07 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.28%	
64) 4-Bromofluorobenzene (surr	17.82	95	334285	23.17 ug/L	0.00
Spiked Amount 25.000			Recovery =	92.68%	

Target Compounds					Qvalue
2) Ethanol	6.26	45	157	2.68 ug/L	90
3) tert-Butanol (TBA)	7.76	59	115	0.14 ug/L #	80
13) Acetone	7.09	43	3369	0.78 ug/L #	71
17) Methylene Chloride	7.88	84	1859	0.10 ug/L #	50
24) n-Hexane	9.54	86	408	0.13 ug/L #	1
33) Tetrahydrofuran	10.47	72	130	0.19 ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	10229	0.41 ug/L #	46
48) trans-1,3-Dichloropropene	13.82	75	336	0.25 ug/L #	43
62) Styrene	17.15	104	424	0.12 ug/L #	64
81) 4-Isopropyltoluene	19.66	119	4033	0.09 ug/L	98
83) n-Butylbenzene	20.15	91	5663	0.14 ug/L	93
85) 1,2,4-Trichlorobenzene	22.37	180	2758	0.22 ug/L #	93
86) Naphthalene	22.72	128	2816	0.17 ug/L #	74
87) Hexachlorobutadiene	22.77	225	7302	1.14 ug/L	94
88) 1,2,3-Trichlorobenzene	22.99	180	2490	0.26 ug/L	92

NT/MC

-B

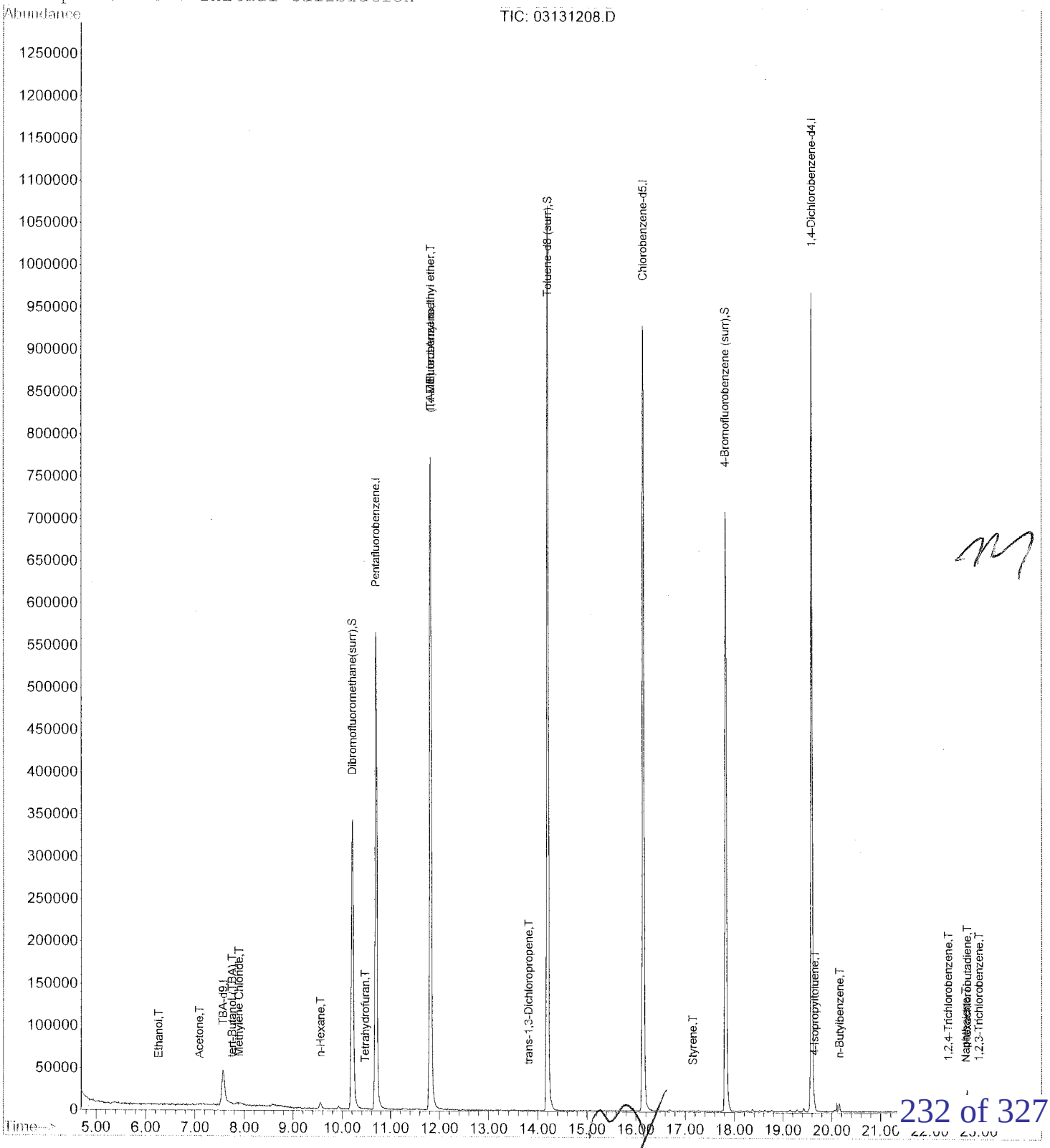
3/14/12

(#) = qualifier out of range (m) = manual integration
03131208.D 031212.M Wed Mar 14 11:21:47 2012

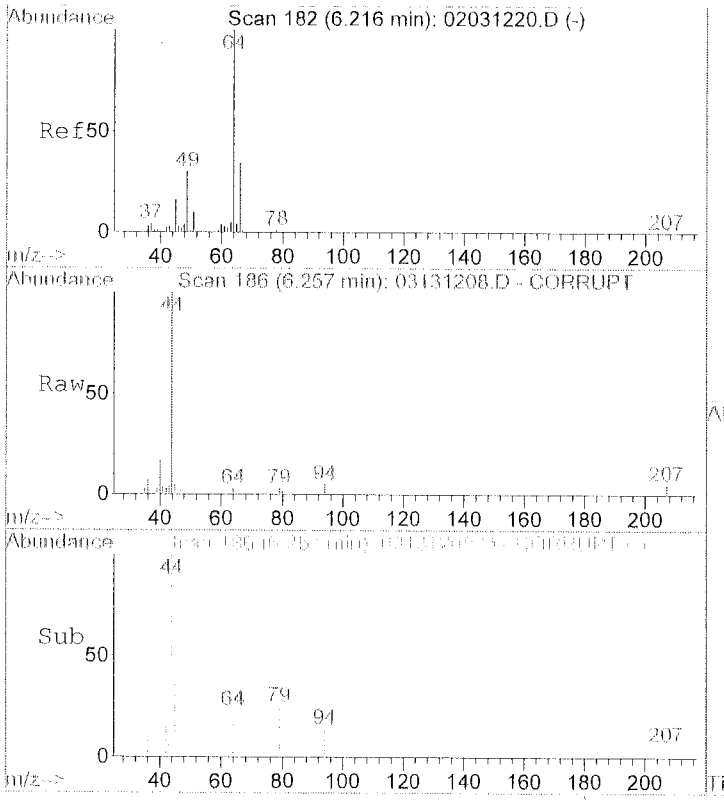
Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131208.D Vial: 7
Acq On : 13 Mar 2012 1:23 pm Operator: JH
Sample : 12C0524-BLK1 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:21 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration



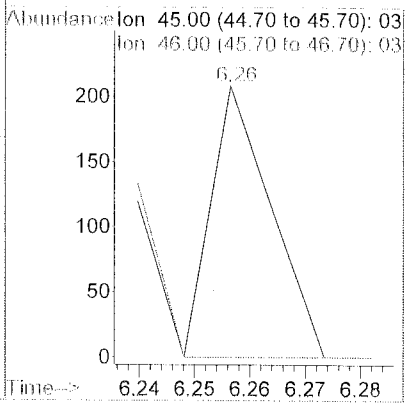
03131208.D 031212.M Wed Mar 14 11:21:48 2012 Page 2

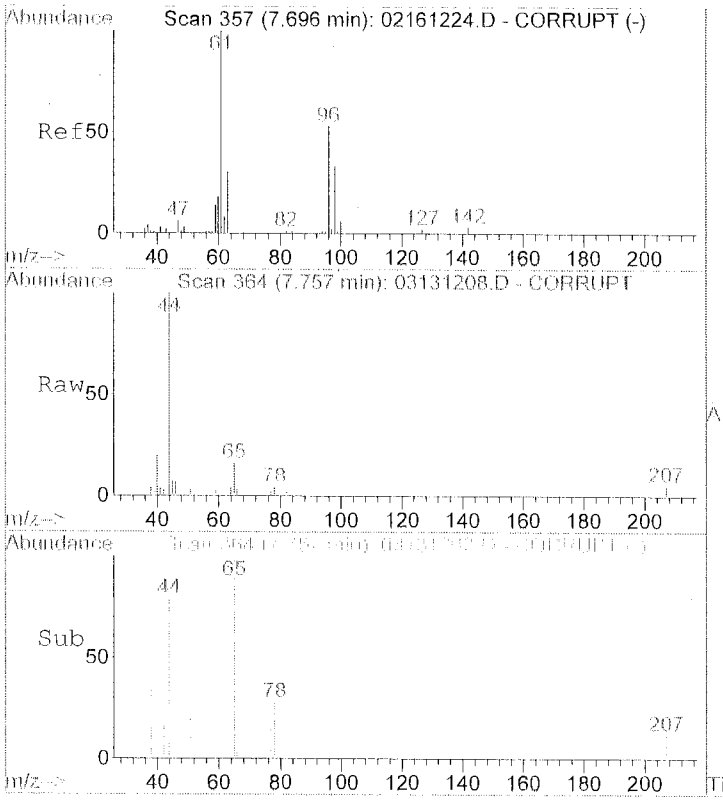


#2
Ethanol
Concen: 2.68 ug/L
RT: 6.26 min Scan# 186
Delta R.T. 0.07 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 45 Resp: 157

Ion	Ratio	Lower	Upper
45	100		
46	42.7	39.8	59.8

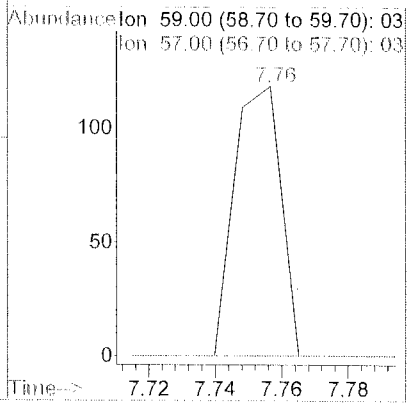


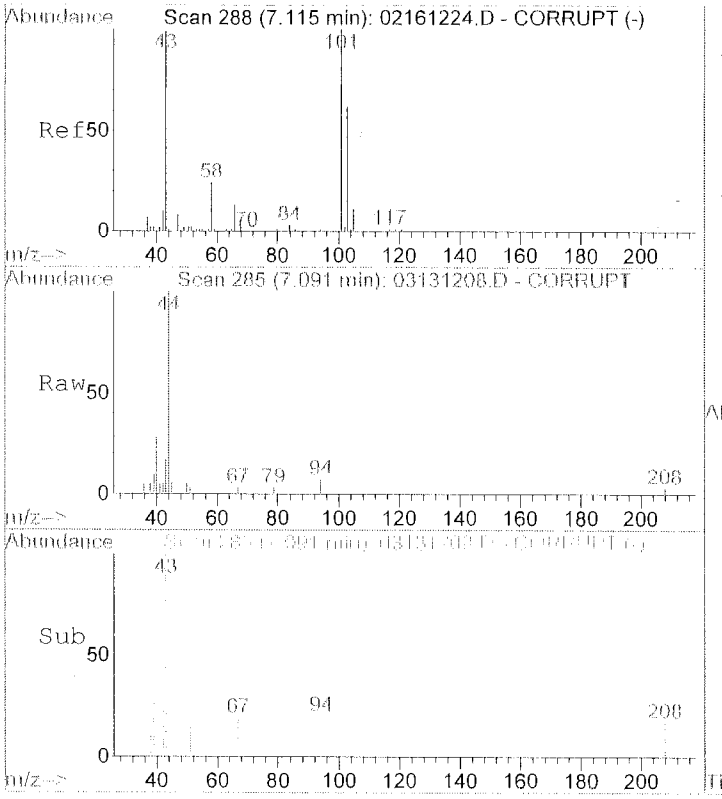


#3
tert-Butanol (TBA)
Concen: 0.14 ug/L
RT: 7.76 min Scan# 364
Delta R.T. 0.07 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 59 Resp: 115

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

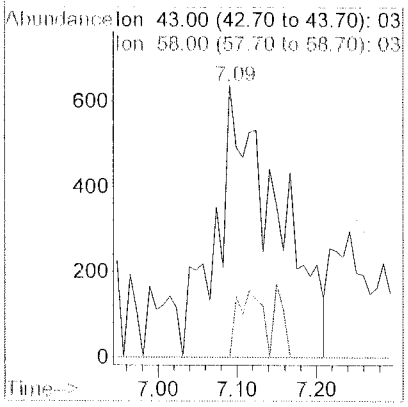


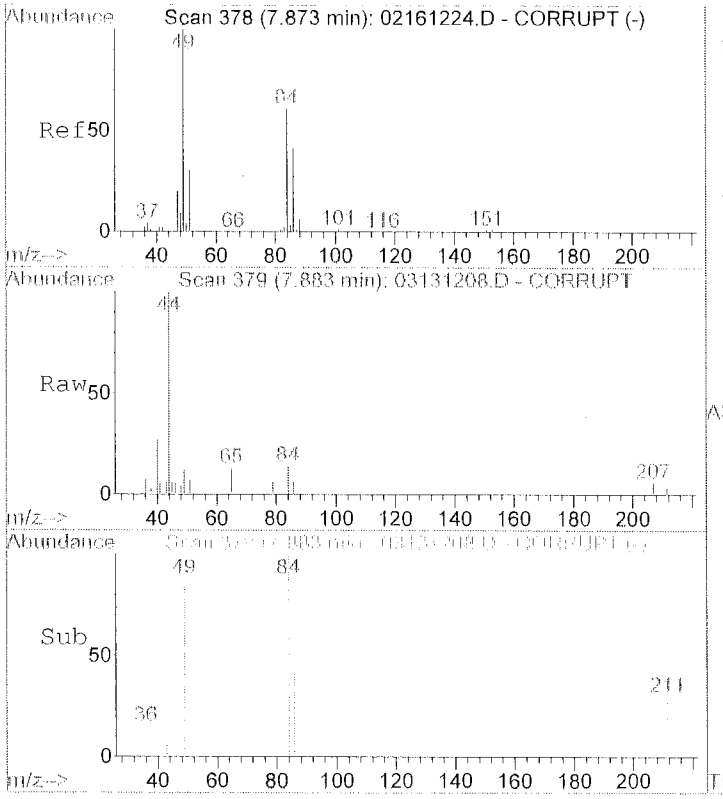


#13
Acetone
Concen: 0.78 ug/L
RT: 7.09 min Scan# 285
Delta R.T. -0.02 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 43 Resp: 3369

Ion	Ratio	Lower	Upper
43	100		
58	9.8	19.1	28.7#

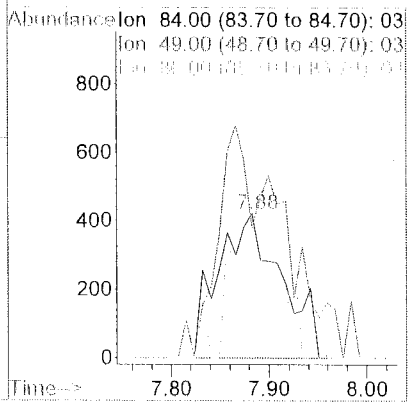


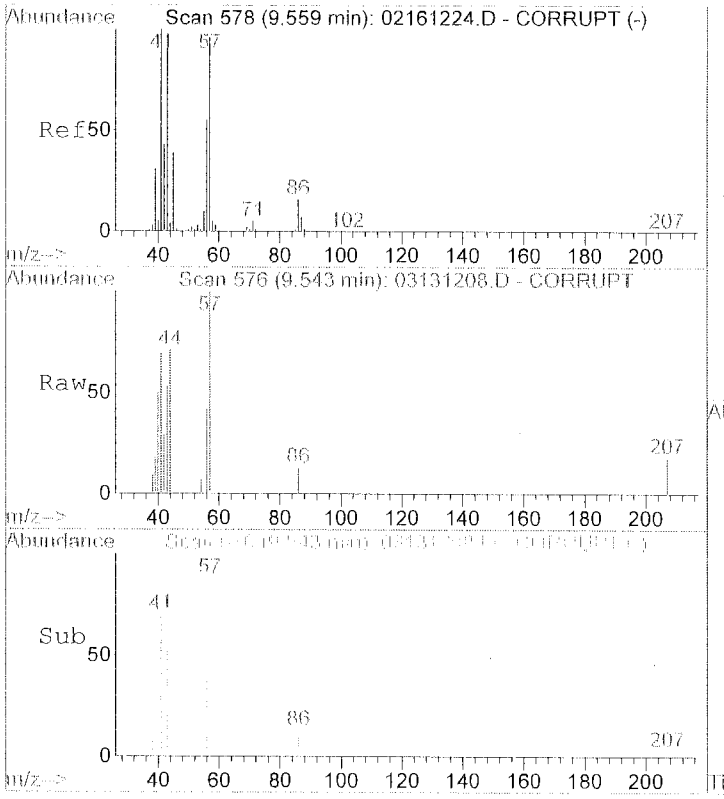


#17
Methylene Chloride
Concen: 0.10 ug/L
RT: 7.88 min Scan# 379
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 84 Resp: 1859

Ion	Ratio	Lower	Upper
84	100		
49	83.5	128.6	193.0#
86	40.8	51.2	76.8#

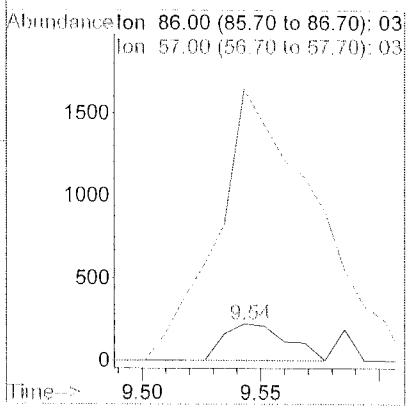


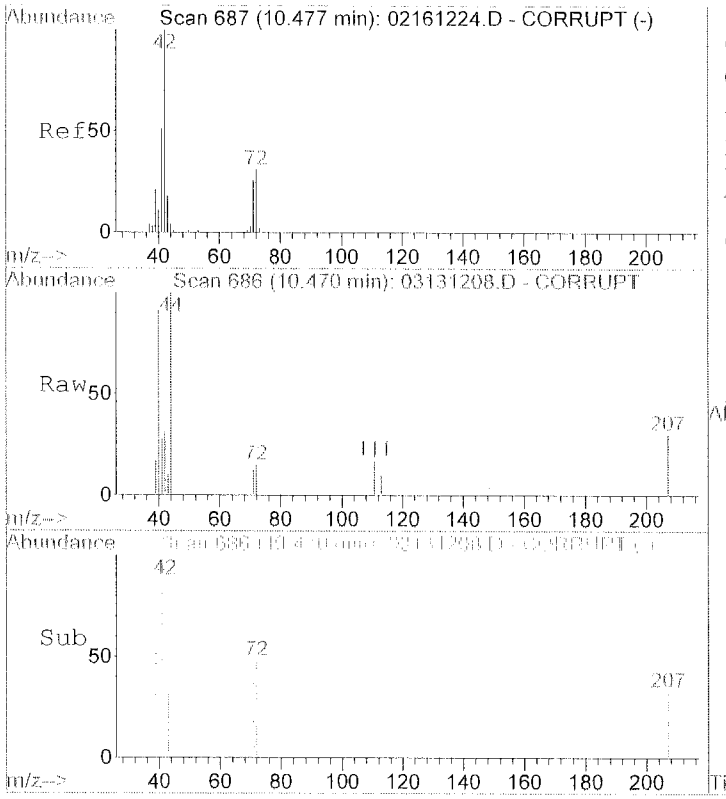


#24
n-Hexane
Concen: 0.13 ug/L
RT: 9.54 min Scan# 576
Delta R.T. -0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 86 Resp: 408

Ion	Ratio	Lower	Upper
86	100		
57	1161.0	631.8	671.8#

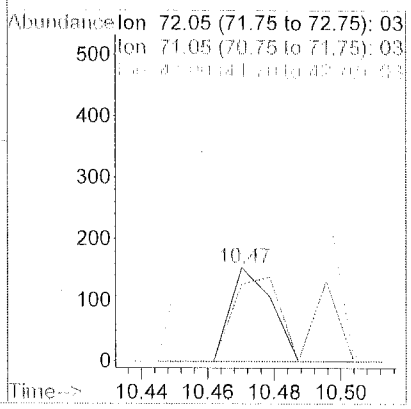


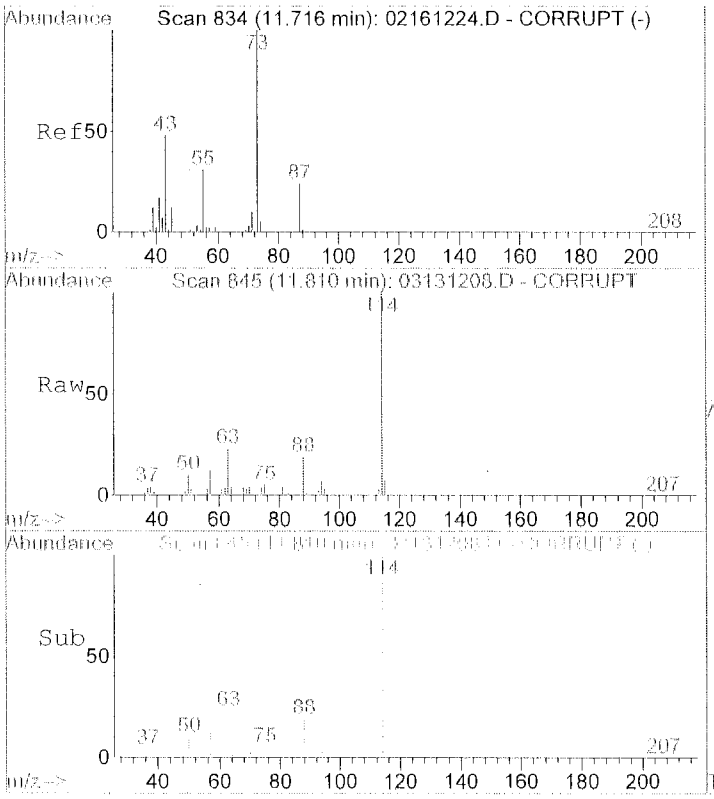


#33
Tetrahydrofuran
Concen: 0.19 ug/L
RT: 10.47 min Scan# 686
Delta R.T. -0.00 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 72 Resp: 130

Ion	Ratio	Lower	Upper
72	100		
71	153.8	74.4	114.4#
42	707.7	318.4	358.4#

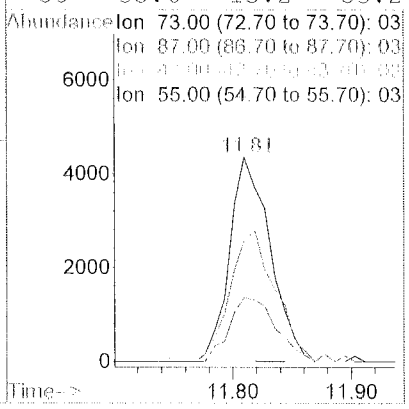


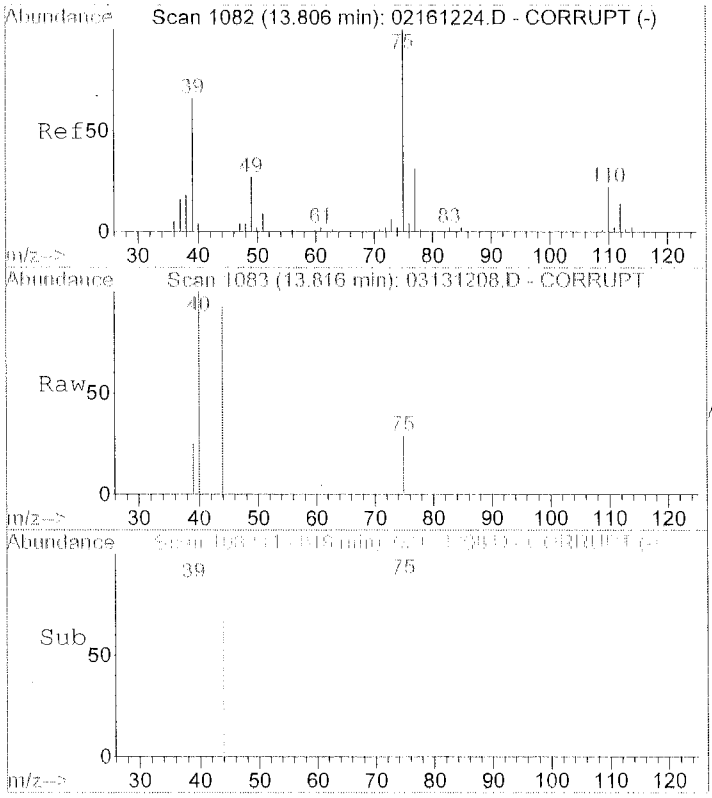


#36
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.81 min Scan# 845
Delta R.T. 0.10 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 73 Resp: 10229

Ion	Ratio	Lower	Upper
73	100		
87	70.5	3.3	43.3#
43	2.0	27.7	67.7#
55	35.6	13.2	53.2

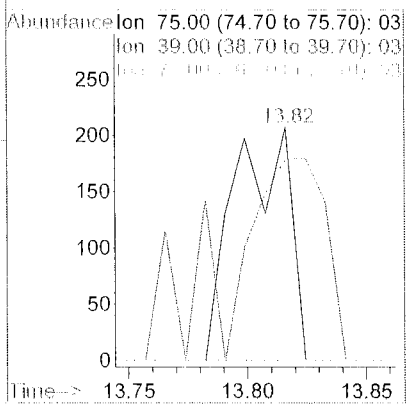


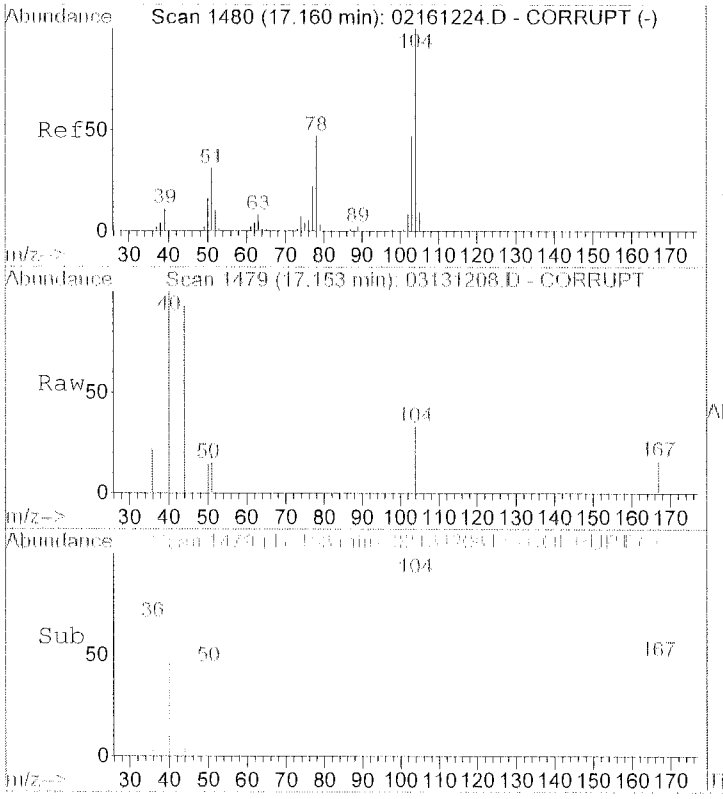


#48
trans-1,3-Dichloropropene
Concen: 0.25 ug/L
RT: 13.82 min Scan# 1083
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 75 Resp: 336

Ion	Ratio	Lower	Upper
75	100		
39	112.8	53.5	80.3#
77	0.0	25.1	37.7#

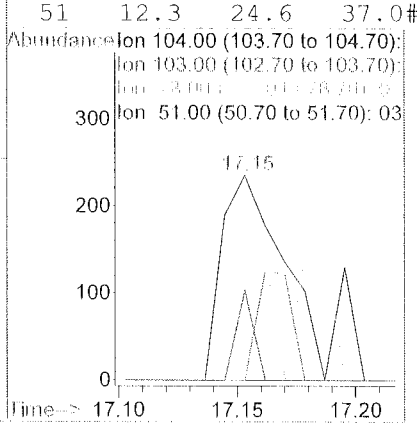


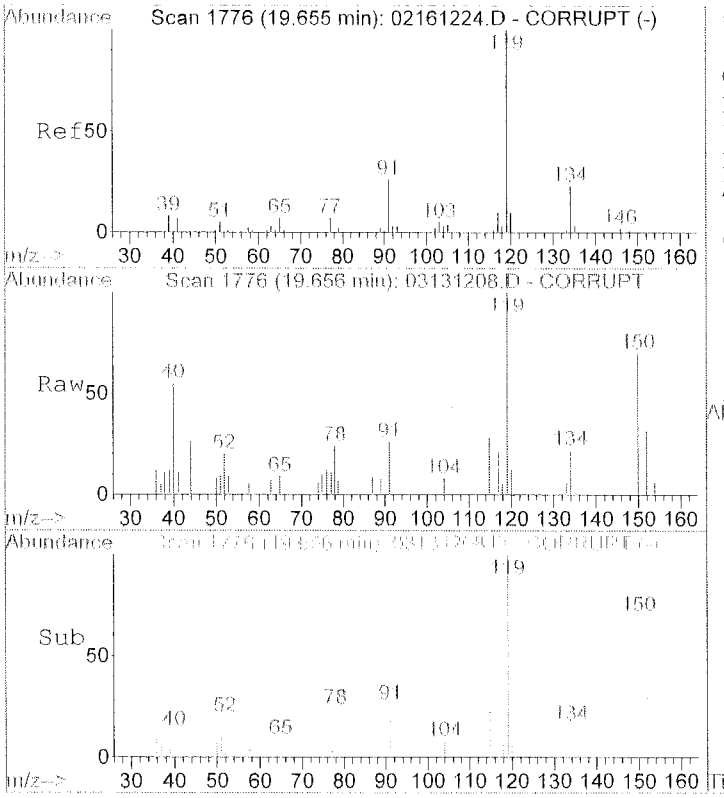


#62
Styrene
Concen: 0.12 ug/L
RT: 17.15 min Scan# 1479
Delta R.T. -0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:104 Resp: 424

Ion	Ratio	Lower	Upper
104	100		
103	29.2	37.2	55.8#
78	13.7	35.8	53.8#
51	12.3	24.6	37.0#

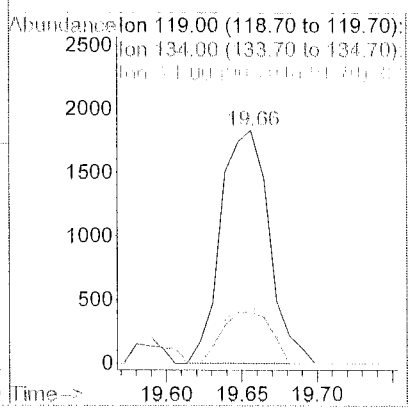


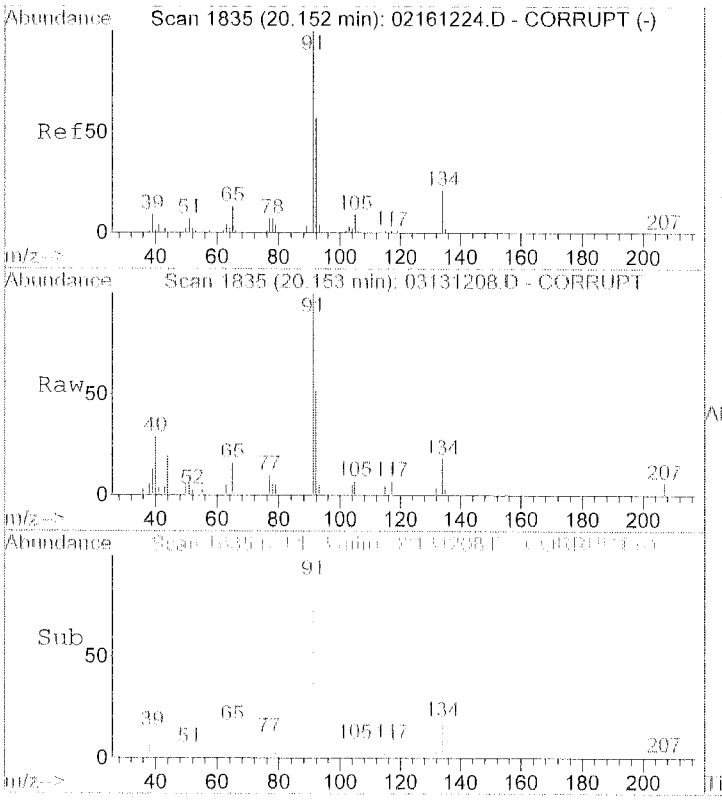


#81
4-Isopropyltoluene
Concen: 0.09 ug/L
RT: 19.66 min Scan# 1776
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:119 Resp: 4033

Ion	Ratio	Lower	Upper
119	100		
134	22.4	18.9	28.3
91	26.3	20.1	30.1

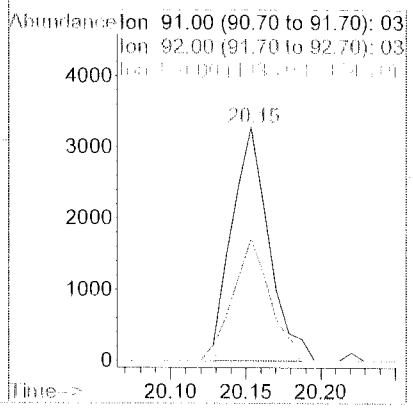


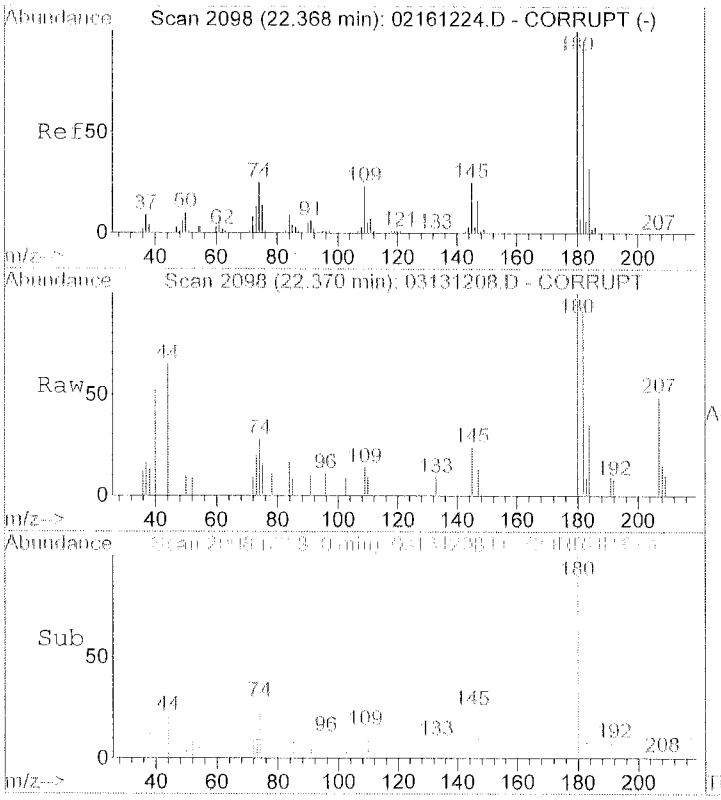


#83
n-Butylbenzene
Concen: 0.14 ug/L
RT: 20.15 min Scan# 1835
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion: 91 Resp: 5663

Ion	Ratio	Lower	Upper
91	100		
92	53.0	46.2	69.4
134	25.8	18.0	27.0

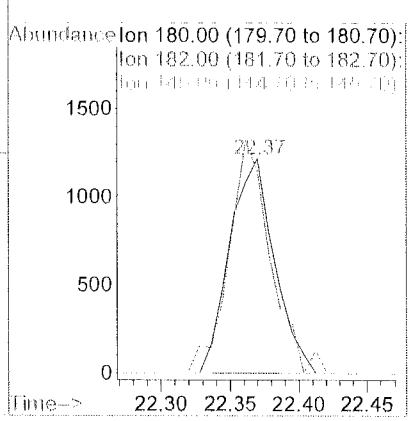


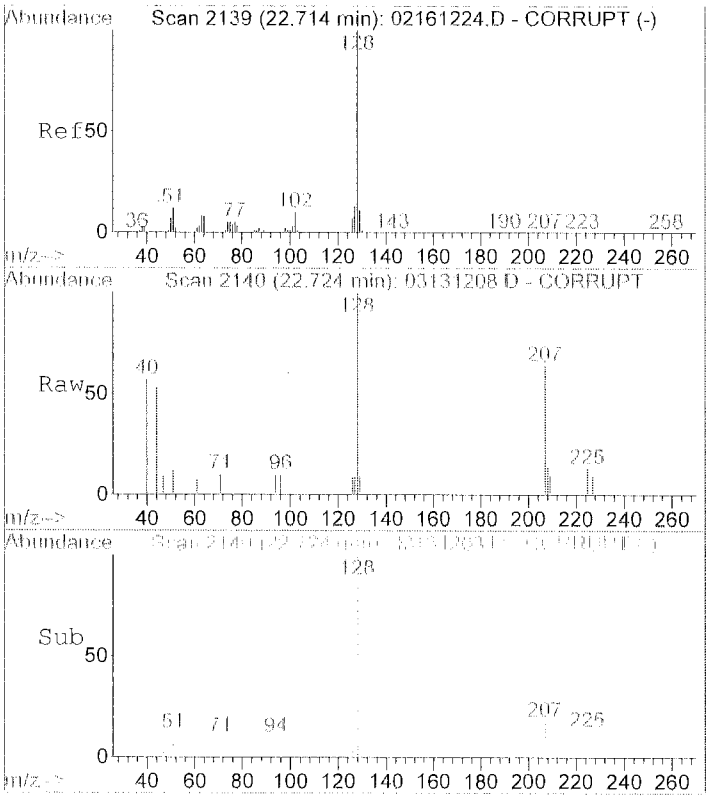


#85
1,2,4-Trichlorobenzene
Concen: 0.22 ug/L
RT: 22.37 min Scan# 2098
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:180 Resp: 2758

Ion	Ratio	Lower	Upper
180	100		
182	101.2	76.5	114.7
145	19.2	20.2	30.2#

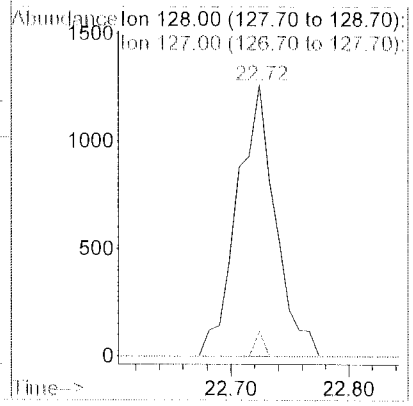


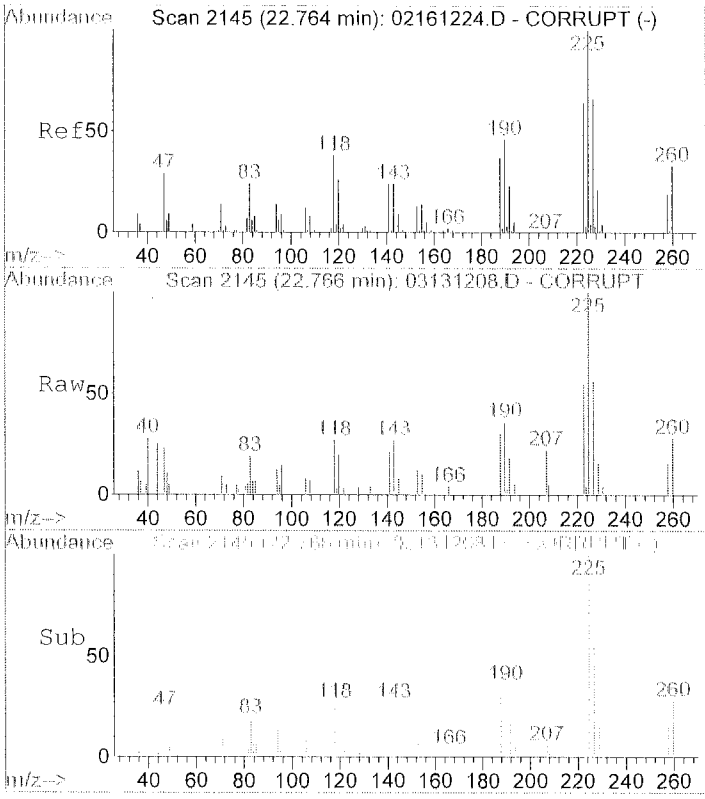


#86
Naphthalene
Concen: 0.17 ug/L
RT: 22.72 min Scan# 2140
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:128 Resp: 2816

Ion	Ratio	Lower	Upper
128	100		
127	2.1	9.8	14.6#





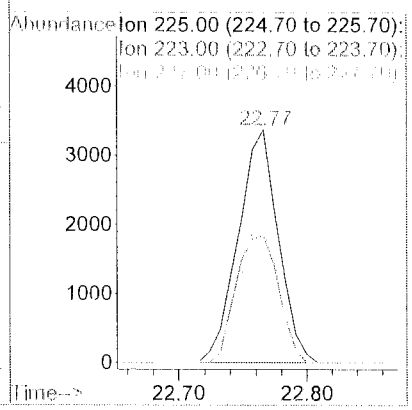
#87
Hexachlorobutadiene
Concen: 1.14 ug/L
RT: 22.77 min Scan# 2145
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

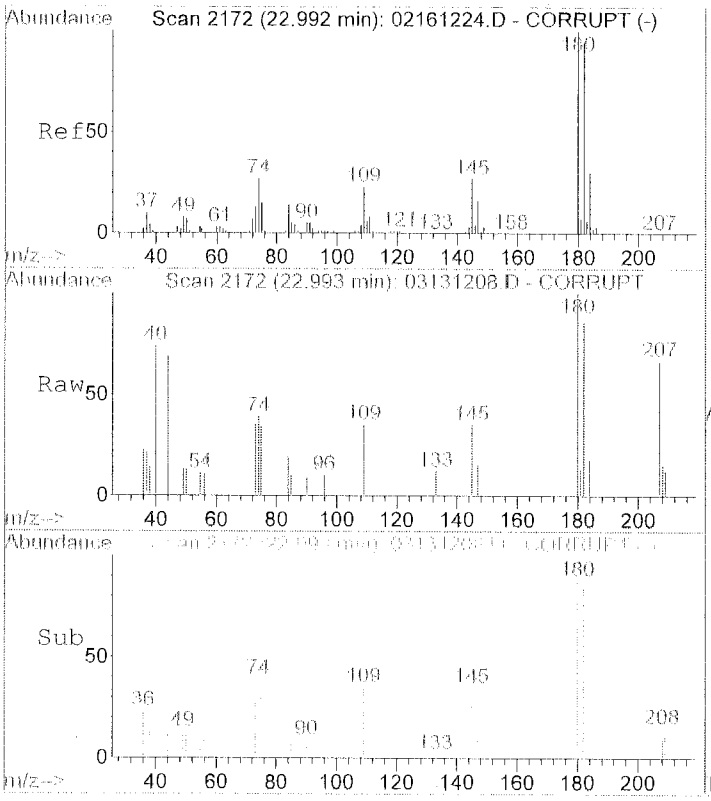
Tgt Ion:225 Resp: 7302

Ion	Ratio	Lower	Upper
225	100		
223	57.9	49.8	74.8
227	59.1	50.7	76.1

3/14/12

B

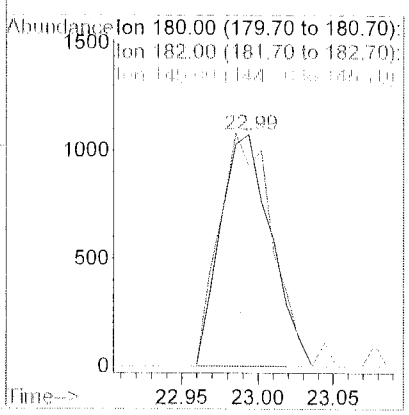




#88
1,2,3-Trichlorobenzene
Concen: 0.26 ug/L
RT: 22.99 min Scan# 2172
Delta R.T. 0.01 min
Lab File: 03131208.D
Acq: 13 Mar 2012 1:23 pm

Tgt Ion:180 Resp: 2490

Ion	Ratio	Lower	Upper
180	100		
182	106.6	77.8	116.8
145	25.9	21.8	32.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131210.D Vial: 9
Acq On : 13 Mar 2012 2:27 pm Operator: JH
Sample : PVC0524-03 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	78080	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	491093	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	777342	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	639466	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	278572	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	294875	24.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.68%	
50) Toluene-d8 (surr)	14.19	98	864536	24.84 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.36%	
64) 4-Bromofluorobenzene (surr	17.82	95	308124	23.53 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.12%	
Target Compounds					Qvalue
2) Ethanol	6.32	45	489	10.02 ug/L	89
3) tert-Butanol (TBA)	7.67	59	89	0.13 ug/L #	80
13) Acetone	7.12	43	3321	0.83 ug/L	100
36) (TAME) tert-Amyl methyl et	11.81	73	9625	0.42 ug/L #	45
48) trans-1,3-Dichloropropene	13.80	75	62	0.24 ug/L #	1
87) Hexachlorobutadiene	22.76	225	2091	0.37 ug/L	95
88) 1,2,3-Trichlorobenzene	22.99	180	793	0.09 ug/L #	81

NTM

3/14/12

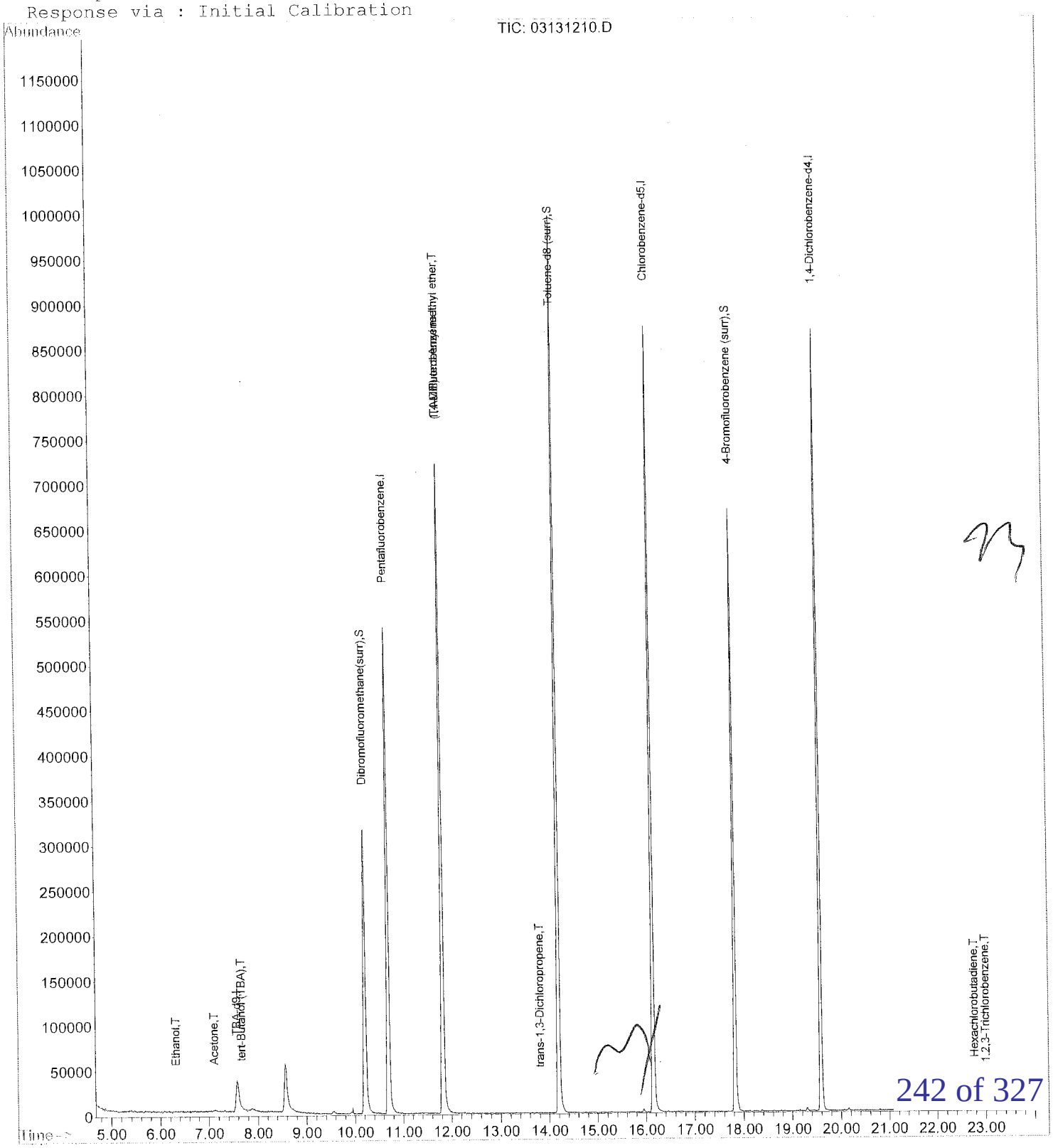
M 3/14/12

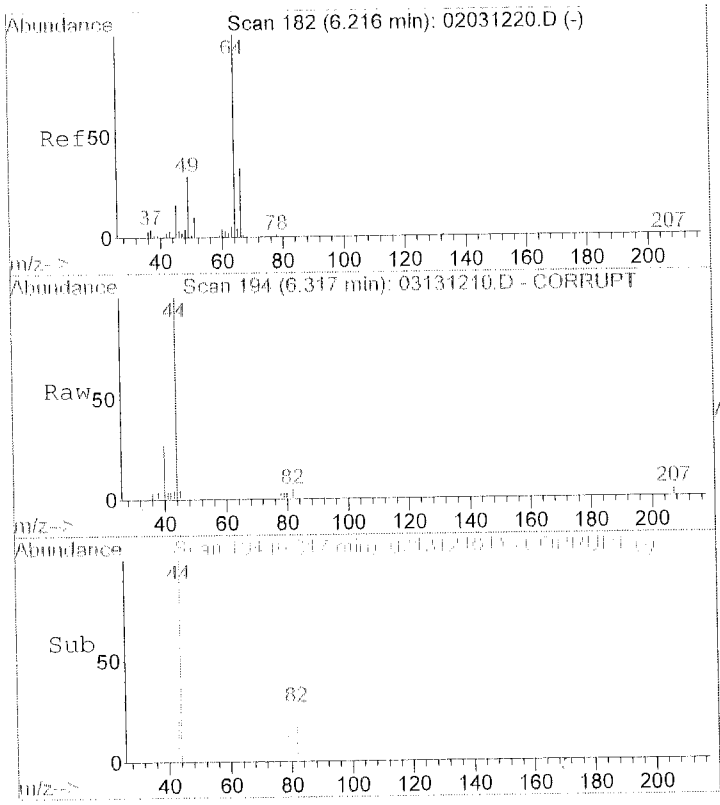
(#) = qualifier out of range (m) = manual integration
03131210.D 031212.M Wed Mar 14 11:22:33 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131210.D Vial: 9
Acq On : 13 Mar 2012 2:27 pm Operator: JH
Sample : PVC0524-03 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

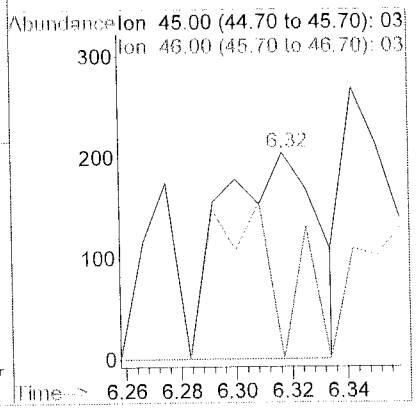


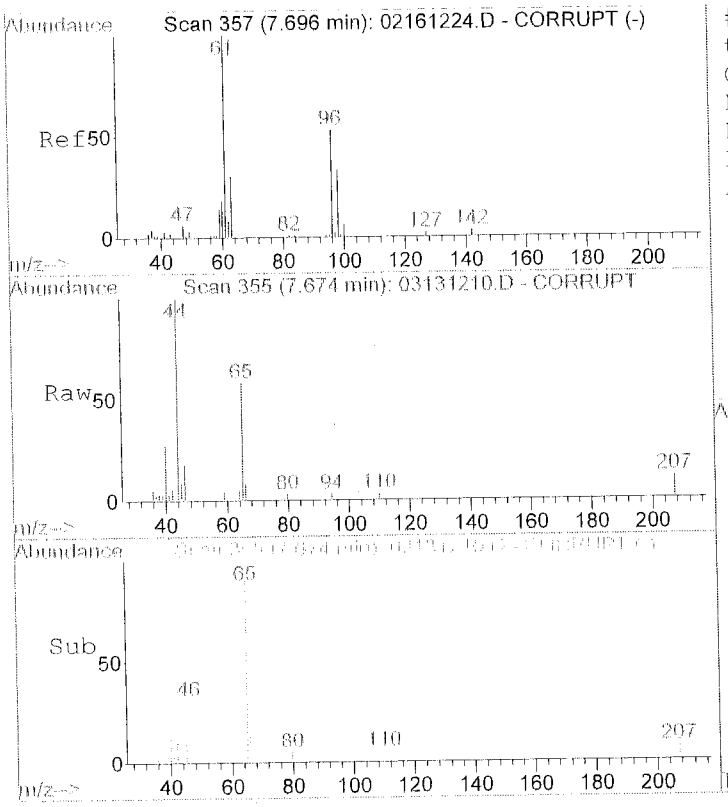


#2
Ethanol
Concen: 10.02 ug/L
RT: 6.32 min Scan# 194
Delta R.T. 0.13 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion: 45 Resp: 489

Ion	Ratio	Lower	Upper
45	100		
46	42.3	39.8	59.8

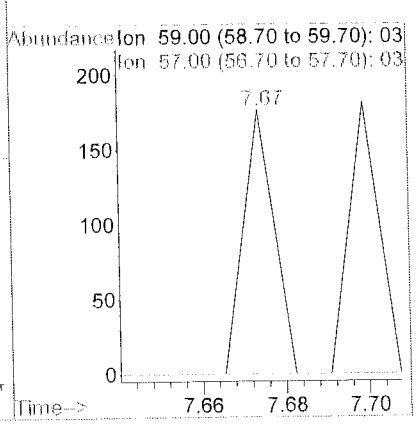


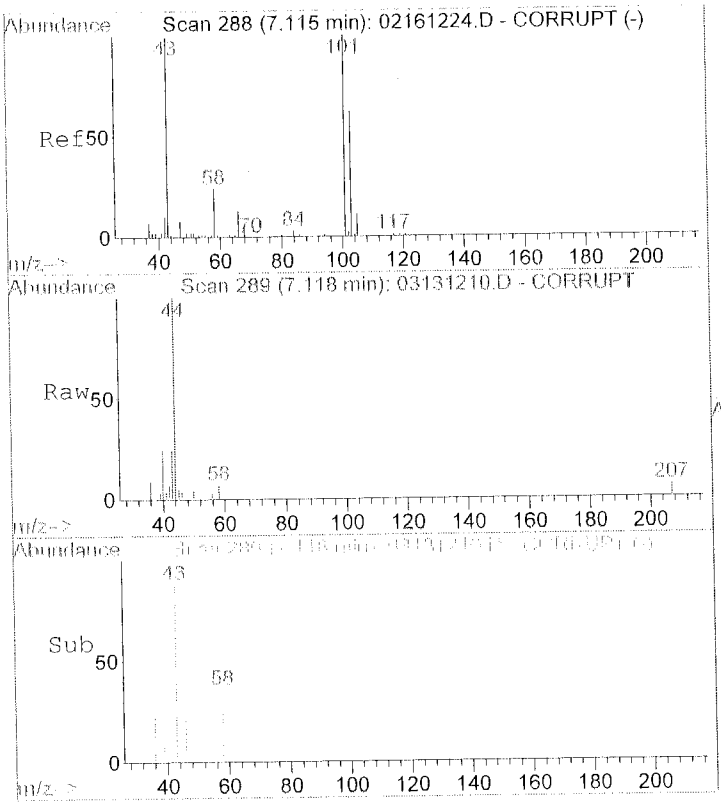


#3
tert-Butanol (TBA)
Concen: 0.13 ug/L
RT: 7.67 min Scan# 355
Delta R.T. -0.01 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion: 59 Resp: 89

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

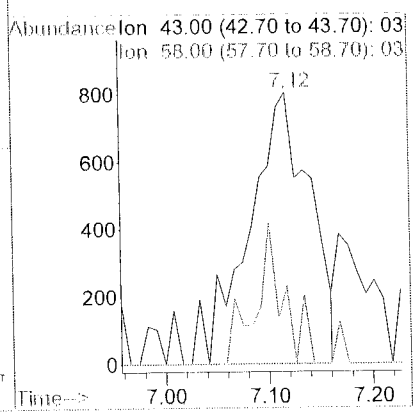


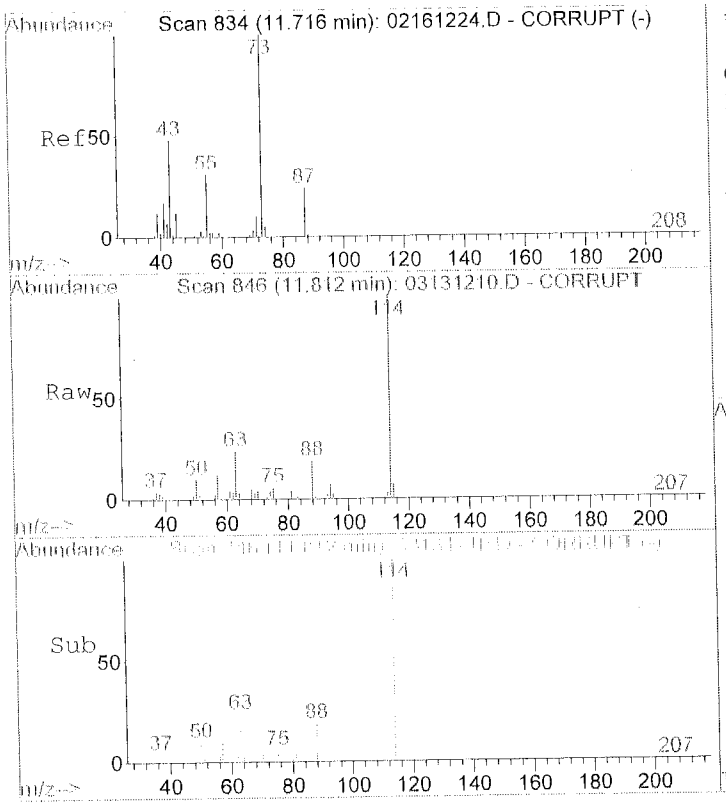


#13
Acetone
Concen: 0.83 ug/L
RT: 7.12 min Scan# 289
Delta R.T. 0.01 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion: 43 Resp: 3321

Ion	Ratio	Lower	Upper
43	100		
58	23.9	19.1	28.7

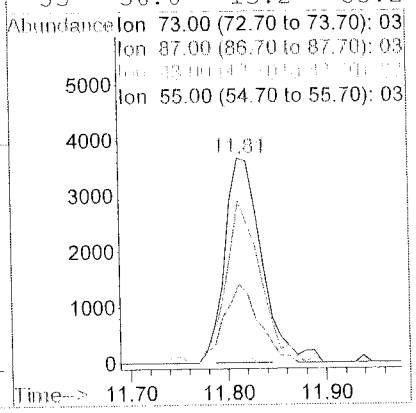


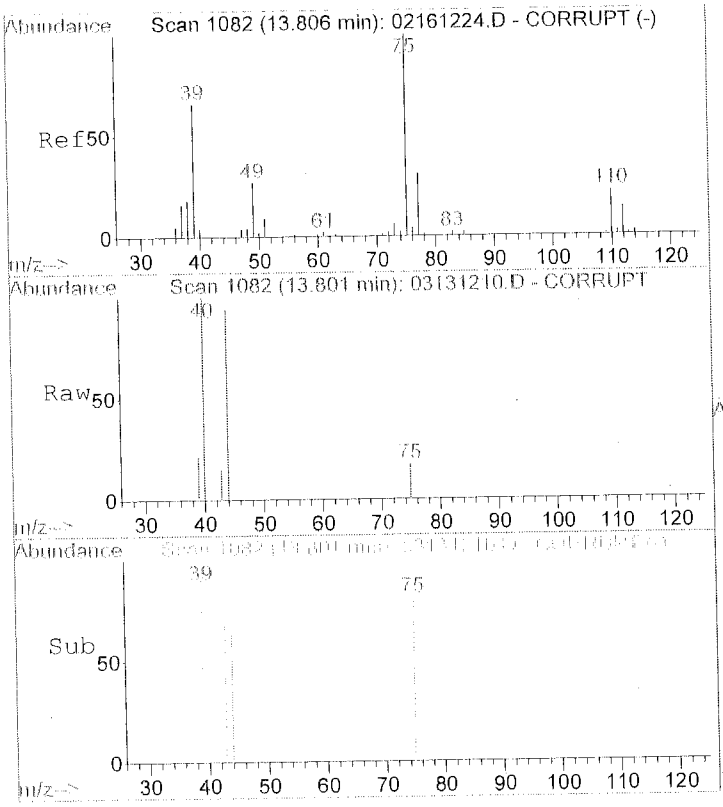


#36
(TAME) tert-Amyl methyl ether
Concen: 0.42 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion: 73 Resp: 9625

Ion	Ratio	Lower	Upper
73	100		
87	73.3	3.3	43.3#
43	3.0	27.7	67.7#
55	36.6	13.2	53.2

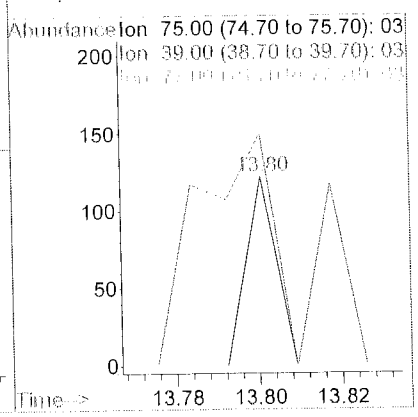


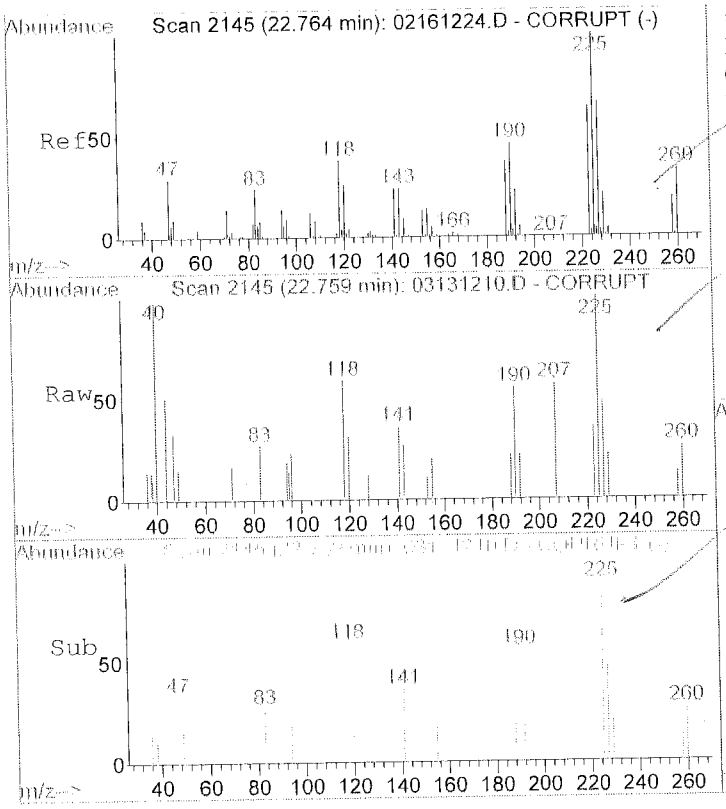


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1082
Delta R.T. -0.01 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion: 75 Resp: 62

Ion	Ratio	Lower	Upper
75	100		
39	400.0	53.5	80.3#
77	0.0	25.1	37.7#

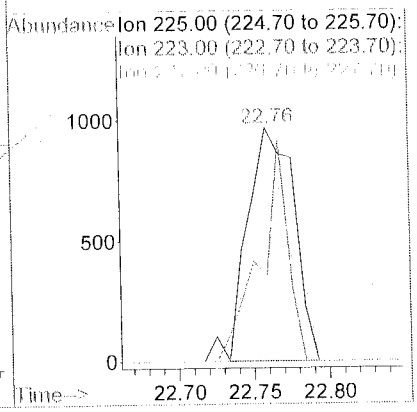




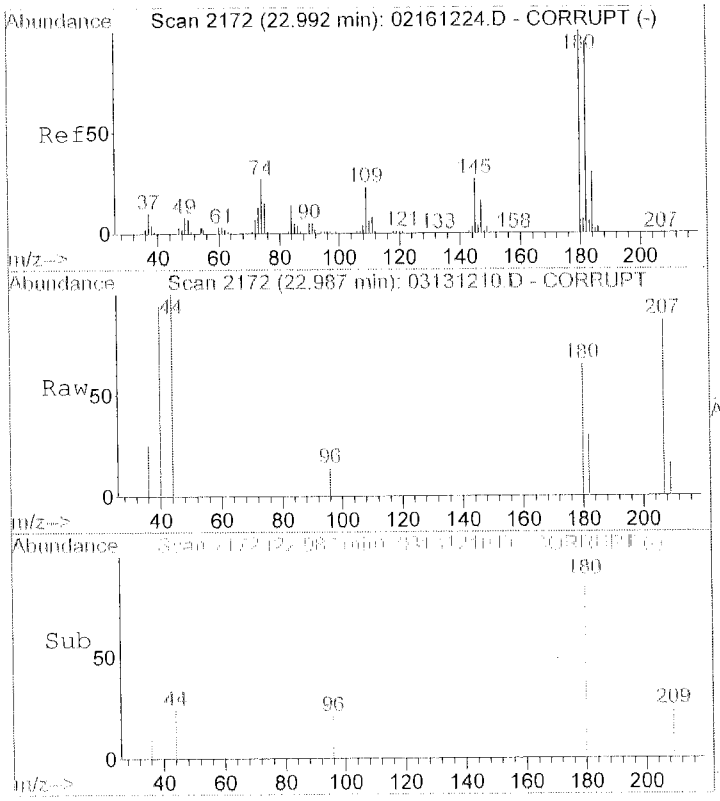
#87
Hexachlorobutadiene
Concen: 0.37 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.00 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion:225 Resp: 2091

Ion	Ratio	Lower	Upper
225	100		
223	56.4	49.8	74.8
227	65.4	50.7	76.1



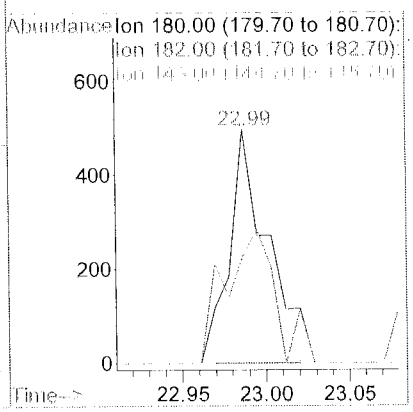
3/14/12



#88
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 22.99 min Scan# 2172
Delta R.T. 0.00 min
Lab File: 03131210.D
Acq: 13 Mar 2012 2:27 pm

Tgt Ion:180 Resp: 793

Ion	Ratio	Lower	Upper
180	100		
182	75.0	77.8	116.8#
145	29.6	21.8	32.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131211.D Vial: 10
Acq On : 13 Mar 2012 2:58 pm Operator: JH
Sample : PVC0524-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	75929	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	472239	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	748284	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	621216	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	266997	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	280630	24.66 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.64%	
50) Toluene-d8 (surr)	14.19	98	828007	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.88%	
64) 4-Bromofluorobenzene (surr	17.82	95	296466	23.30 ug/L	0.00
Spiked Amount 25.000			Recovery =	93.20%	

Target Compounds					Qvalue
2) Ethanol	6.29	45	110	2.32 ug/L	97
13) Acetone	7.12	43	1892	0.49 ug/L #	83
29) Chloroform	10.05	83	13297	0.53 ug/L	95
36) (TAME) tert-Amyl methyl et	11.81	73	9125	0.41 ug/L #	40
43) Trichloroethene	12.36	95	2285	0.18 ug/L	91
48) trans-1,3-Dichloropropene	13.80	75	149	0.24 ug/L #	68
57) Tetrachloroethene	15.27	164	3796	0.42 ug/L	94
87) Hexachlorobutadiene	22.77	225	1299	0.24 ug/L	91

NT/LM

3/14/12 M

3/14/12 M

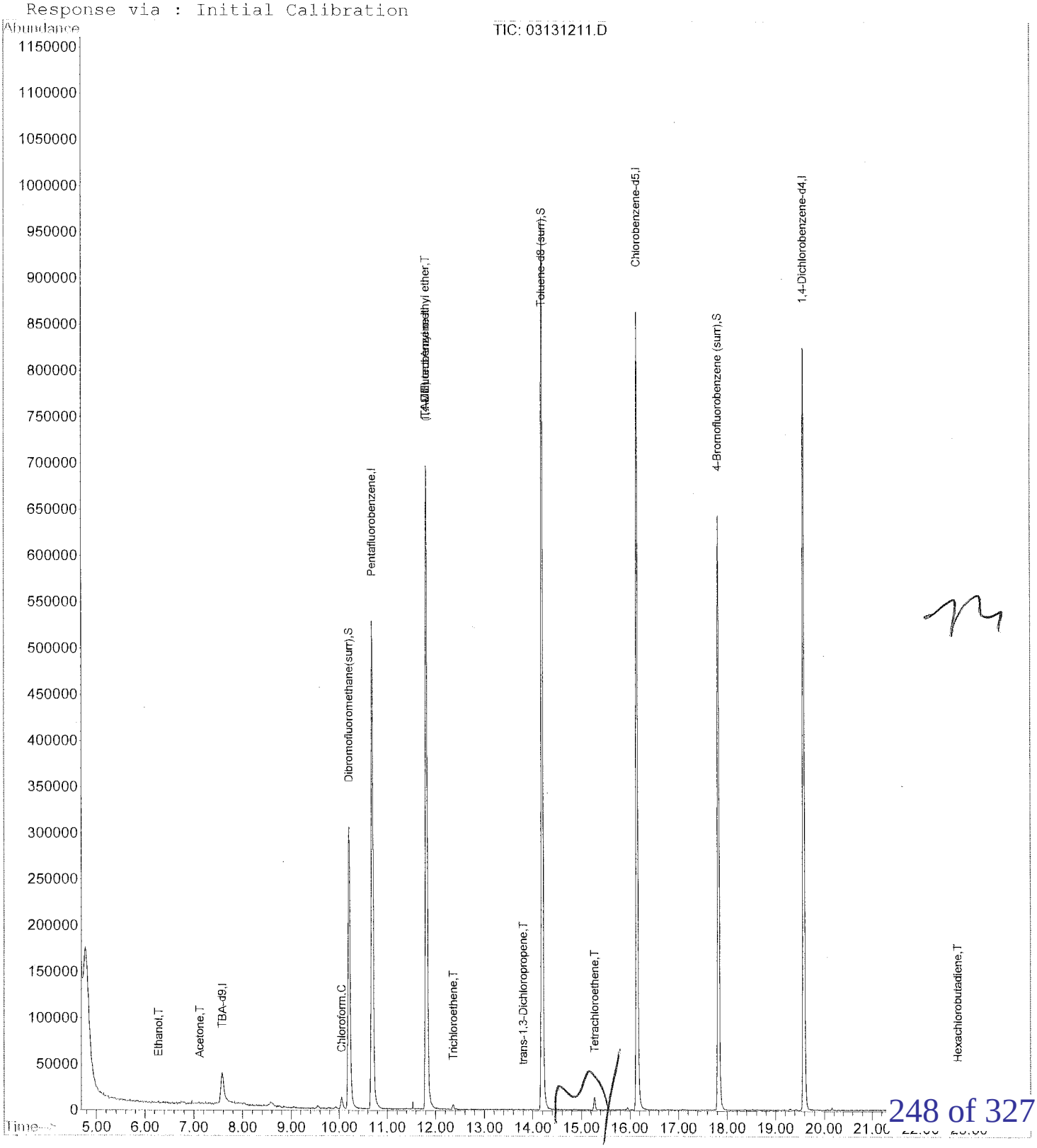
247 of 327

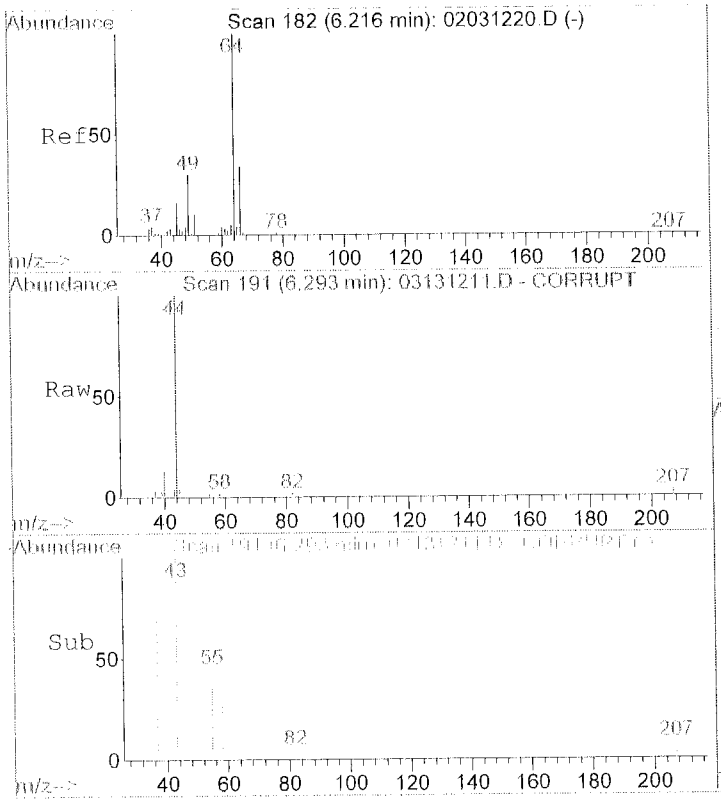
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131211.D Vial: 10
Acq On : 13 Mar 2012 2:58 pm Operator: JH
Sample : PVC0524-01 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:22 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

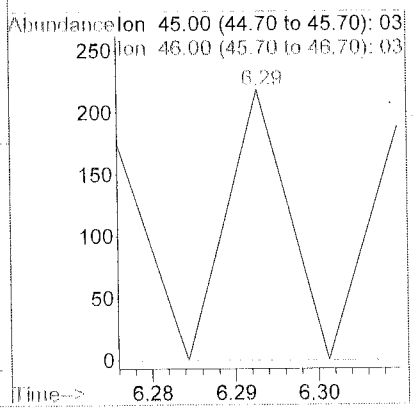


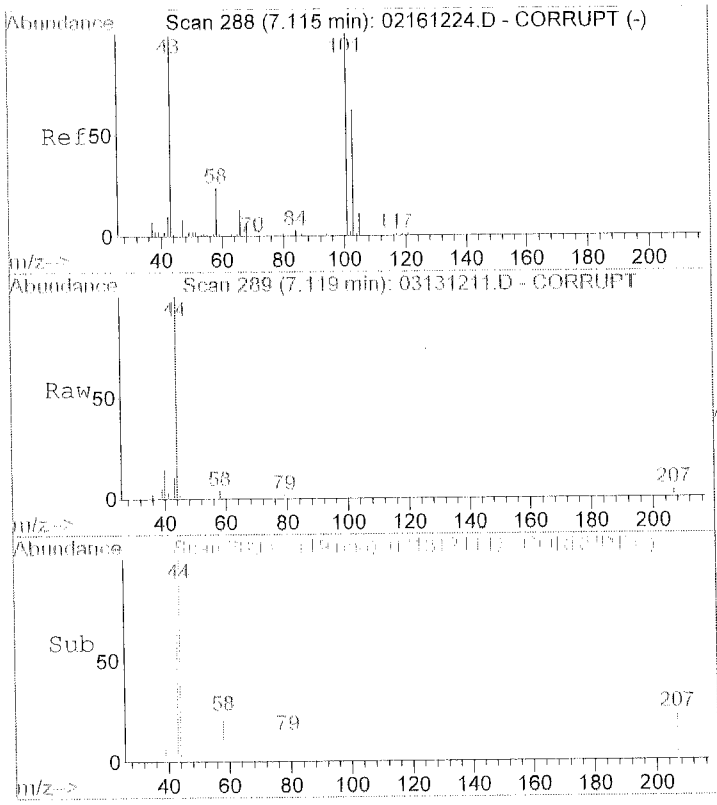


#2
Ethanol
Concen: 2.32 ug/L
RT: 6.29 min Scan# 191
Delta R.T. 0.11 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 45 Resp: 110

Ion	Ratio	Lower	Upper
45	100		
46	51.8	39.8	59.8

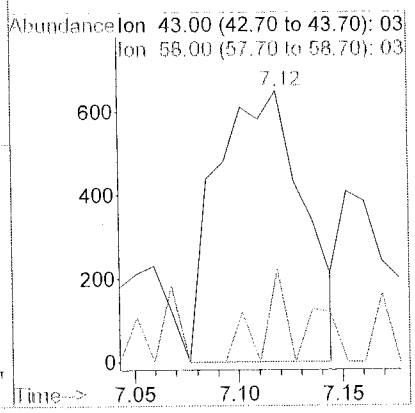


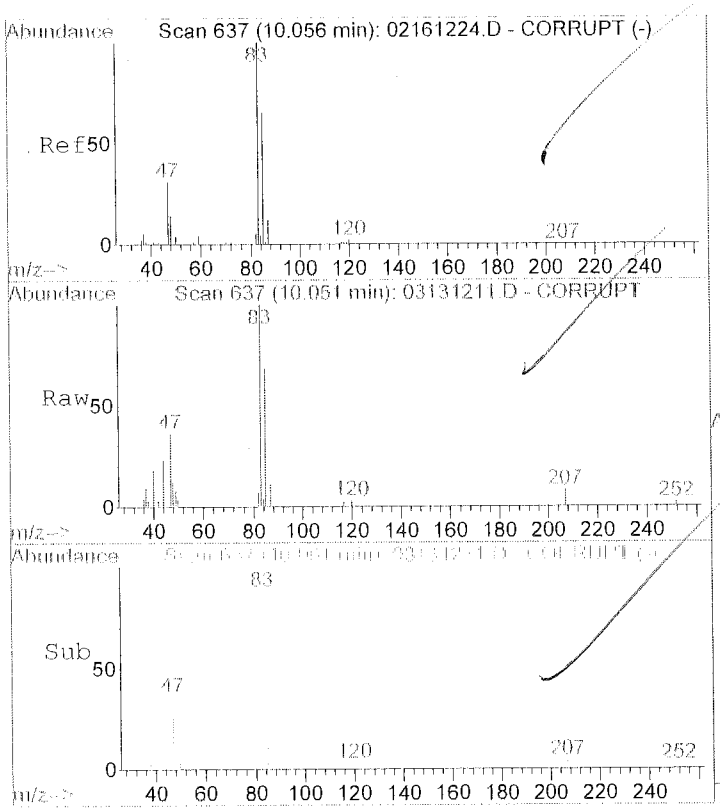


#13
Acetone
Concen: 0.49 ug/L
RT: 7.12 min Scan# 289
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 43 Resp: 1892

Ion	Ratio	Lower	Upper
43	100		
58	15.8	19.1	28.7#

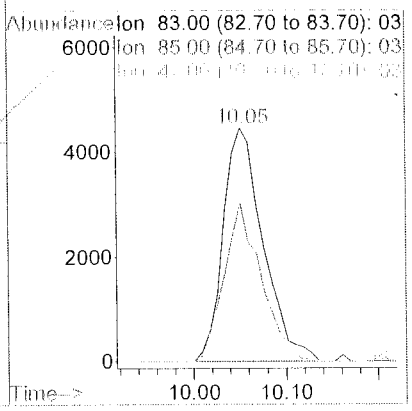




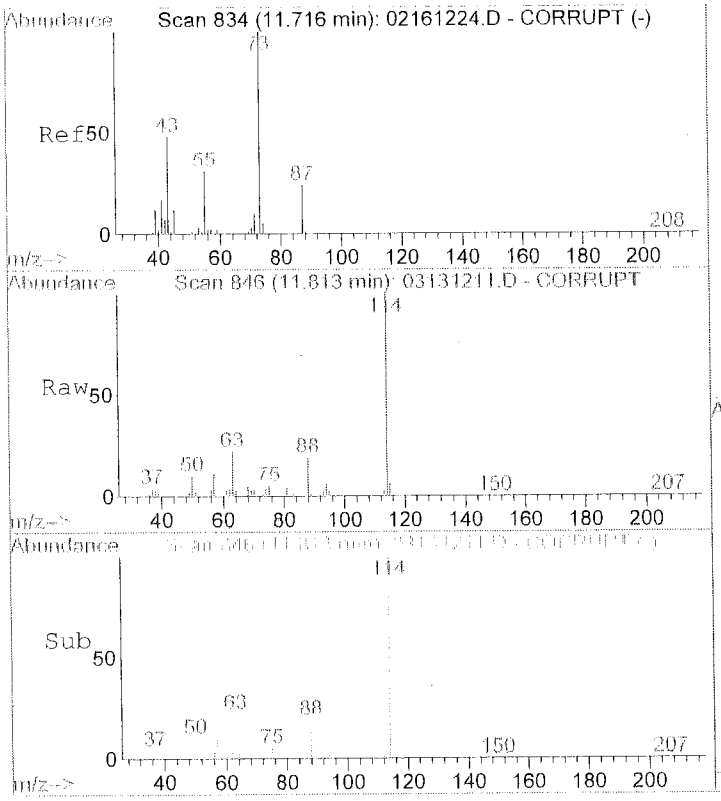
#29
Chloroform
Concen: 0.53 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 83 Resp: 13297

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.3	78.5
47	34.4	31.8	47.8



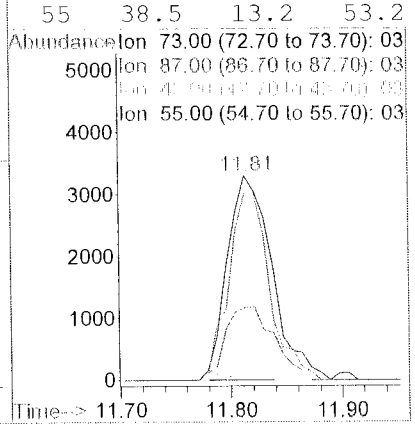
3/14/12

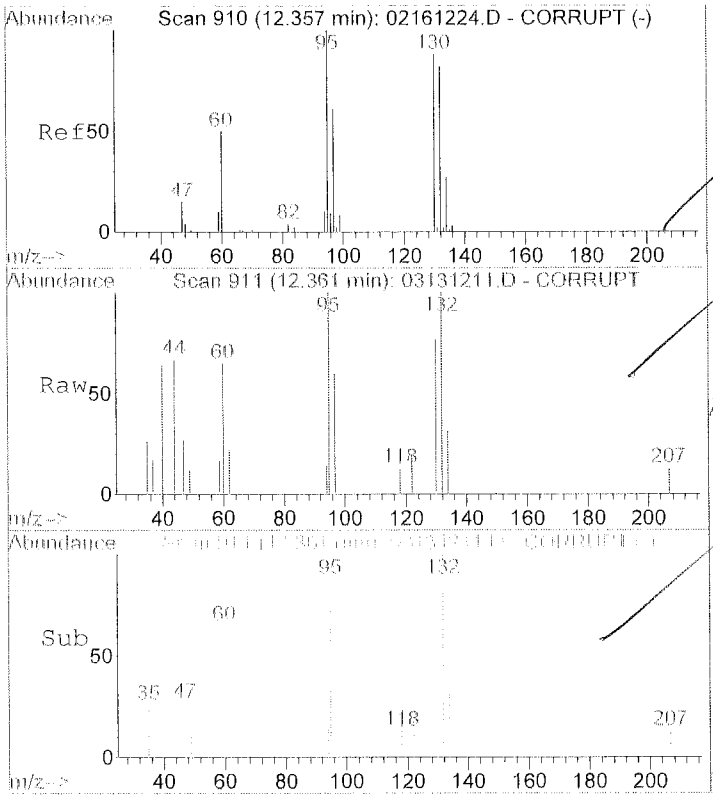


#36
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 73 Resp: 9125

Ion	Ratio	Lower	Upper
73	100		
87	83.9	3.3	43.3#
43	4.7	27.7	67.7#
55	38.5	13.2	53.2

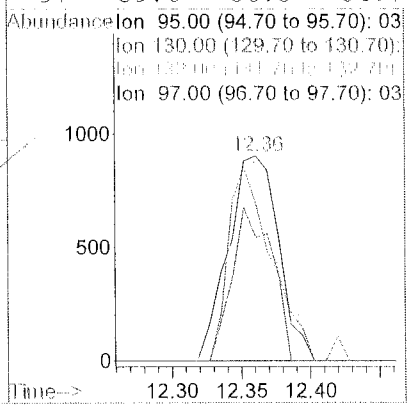




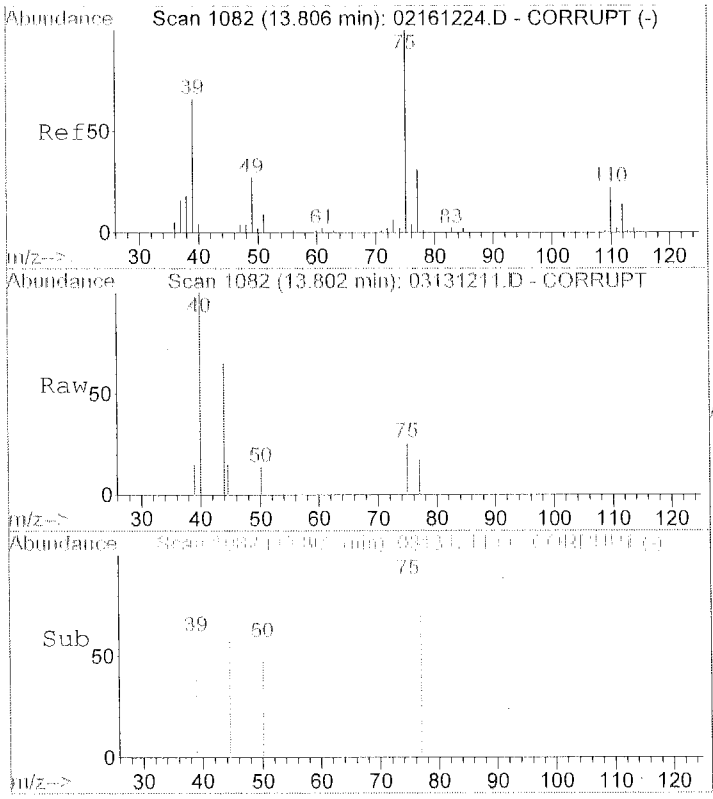
#43
Trichloroethene
Concen: 0.18 ug/L
RT: 12.36 min Scan# 911
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 95 Resp: 2285

Ion	Ratio	Lower	Upper
95	100		
130	81.4	74.2	111.4
132	92.2	71.2	106.8
97	59.6	56.5	84.7



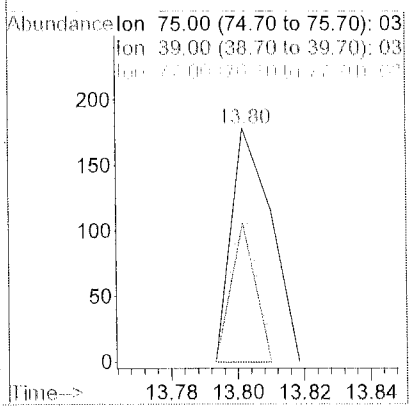
3/14/12

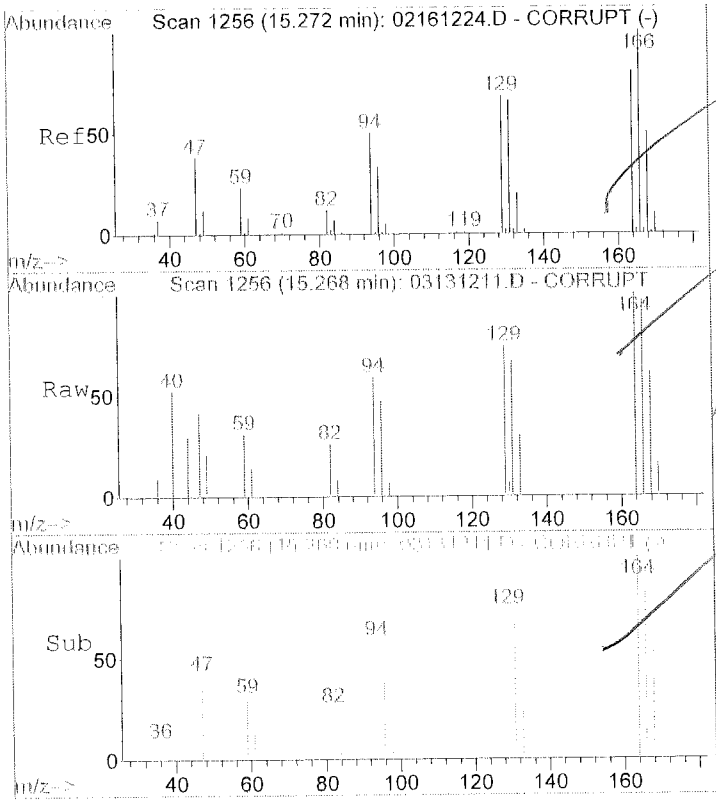


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1082
Delta R.T. -0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion: 75 Resp: 149

Ion	Ratio	Lower	Upper
75	100		
39	36.2	53.5	80.3#
77	42.3	25.1	37.7#

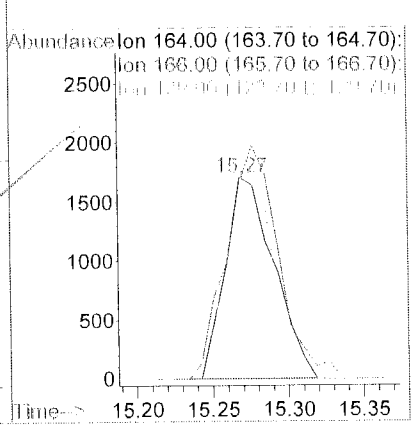




#57
Tetrachloroethene
Concen: 0.42 ug/L
RT: 15.27 min Scan# 1256
Delta R.T. -0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

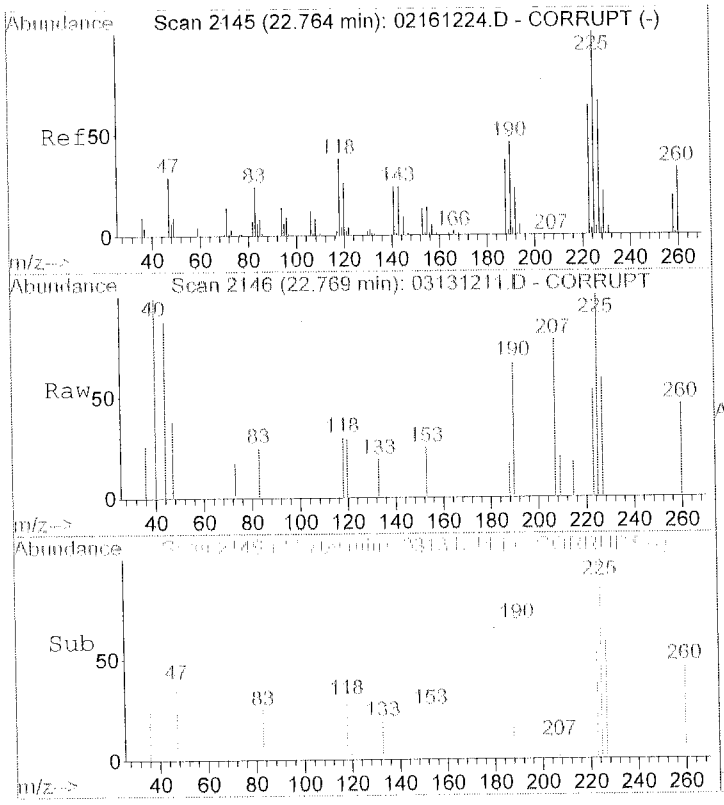
Tgt Ion:164 Resp: 3796

Ion	Ratio	Lower	Upper
164	100		
166	122.7	103.3	154.9
129	97.4	72.7	109.1



J

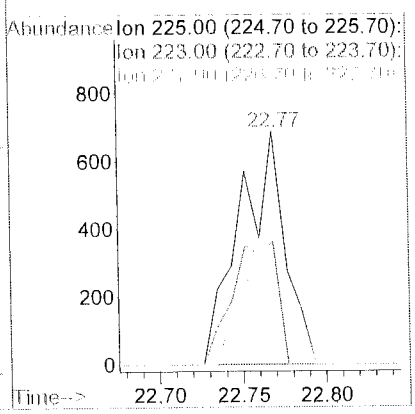
3/14/12



#87
Hexachlorobutadiene
Concen: 0.24 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. 0.01 min
Lab File: 03131211.D
Acq: 13 Mar 2012 2:58 pm

Tgt Ion:225 Resp: 1299

Ion	Ratio	Lower	Upper
225	100		
223	52.0	49.8	74.8
227	60.0	50.7	76.1



M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131212.D Vial: 11
Acq On : 13 Mar 2012 3:29 pm Operator: JH
Sample : PVC0524-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	83499	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	472014	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	744887	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.14	117	618080	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	268737	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	287415	25.27 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.08%	
50) Toluene-d8 (surr)	14.20	98	838885	25.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.64%	
64) 4-Bromofluorobenzene (surr	17.82	95	303501	23.98 ug/L	0.00
Spiked Amount 25.000			Recovery	= 95.92%	

Target Compounds					Qvalue
2) Ethanol	6.19	45	470	9.00 ug/L #	51
13) Acetone	7.11	43	1990	0.52 ug/L	100
29) Chloroform	10.05	83	19447	0.78 ug/L	95
36) (TAME) tert-Amyl methyl et	11.82	73	8953	0.40 ug/L #	40
43) Trichloroethene	12.36	95	1656	0.13 ug/L	84
44) Bromodichloromethane	12.42	83	2280	0.14 ug/L #	83
57) Tetrachloroethene	15.28	164	7516	0.83 ug/L	98
62) Styrene	17.18	104	55	0.10 ug/L #	1
87) Hexachlorobutadiene	22.76	225	686	0.13 ug/L #	77

NT/LL

3/14/12 m

3/14/12
M

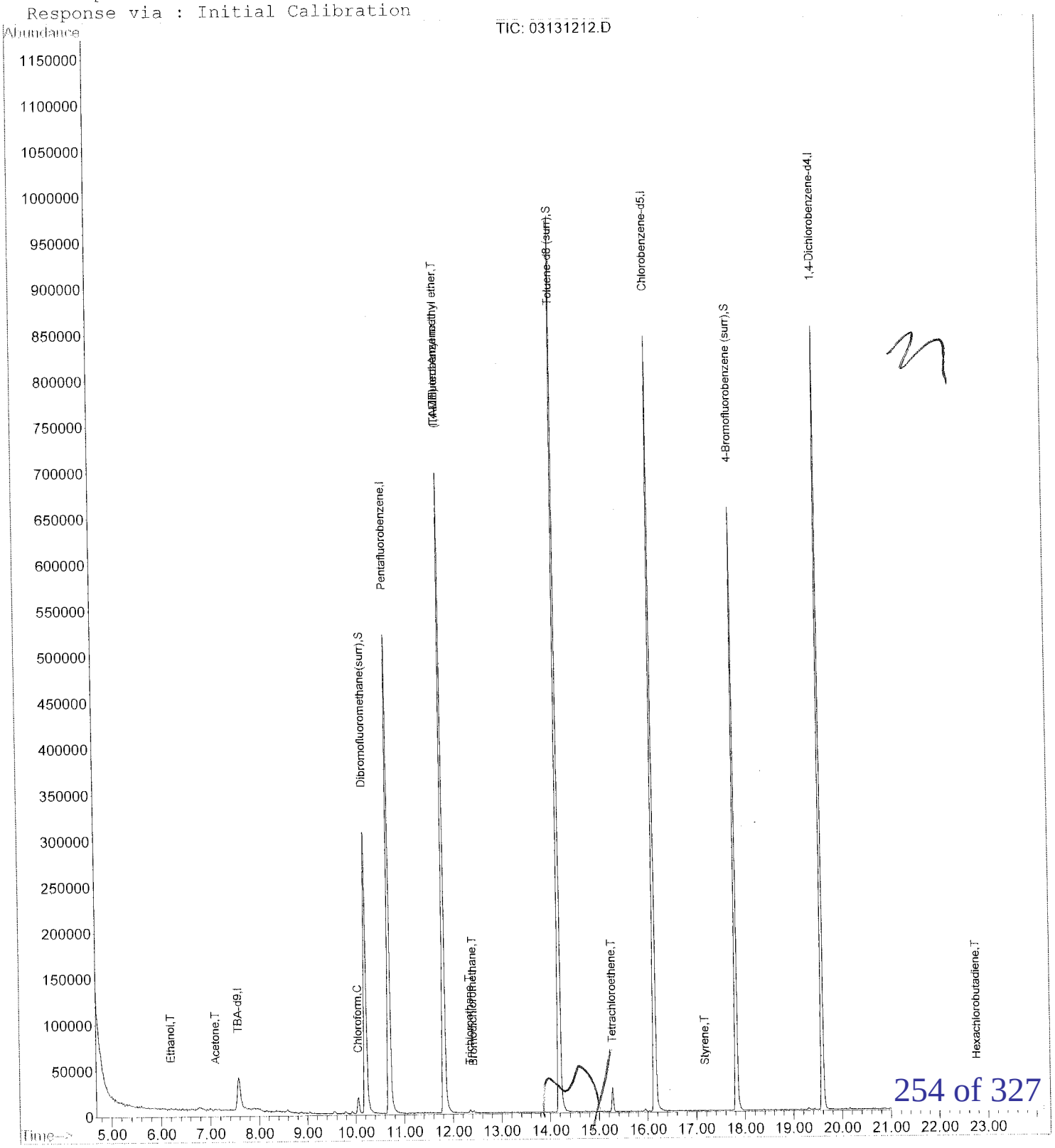
M 3/14/12

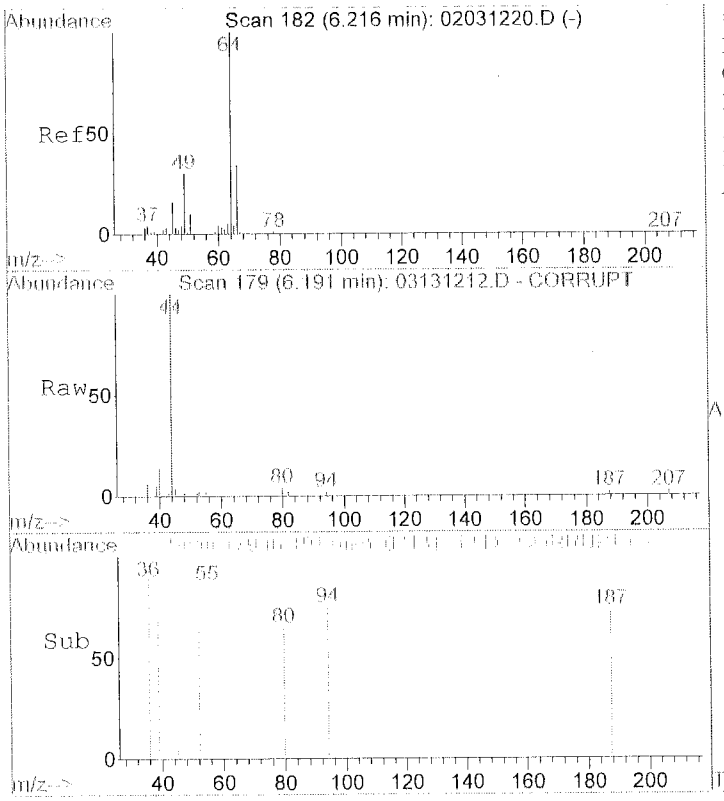
(#) = qualifier out of range (m) = manual integration
03131212.D 031212.M Wed Mar 14 11:23:19 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131212.D Vial: 11
Acq On : 13 Mar 2012 3:29 pm Operator: JH
Sample : PVC0524-02 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

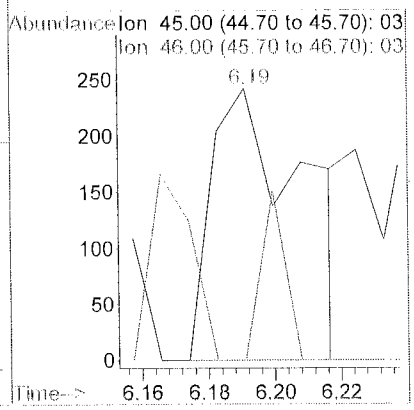


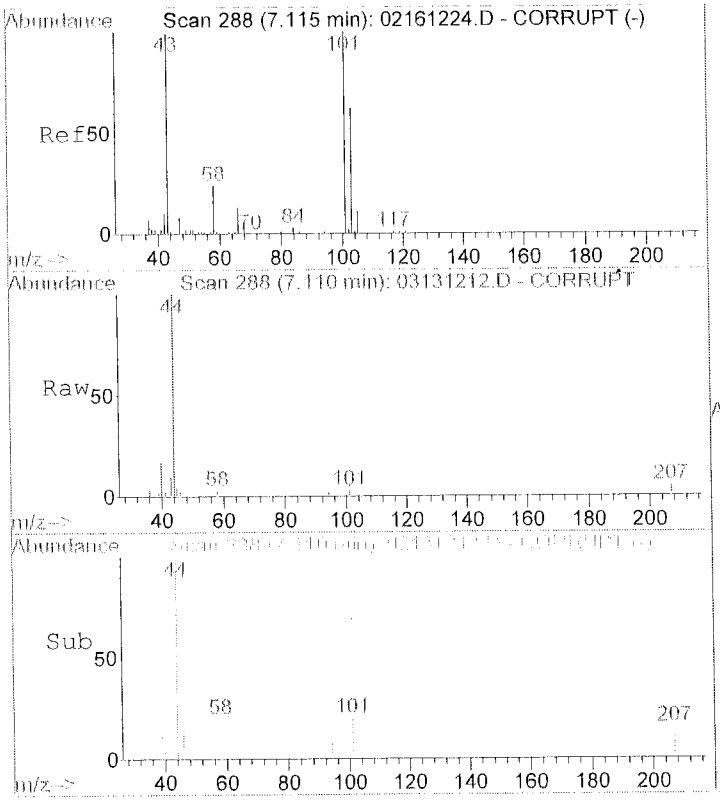


#2
Ethanol
Concen: 9.00 ug/L
RT: 6.19 min Scan# 179
Delta R.T. 0.01 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 45 Resp: 470

Ion	Ratio	Lower	Upper
45	100		
46	16.2	39.8	59.8#

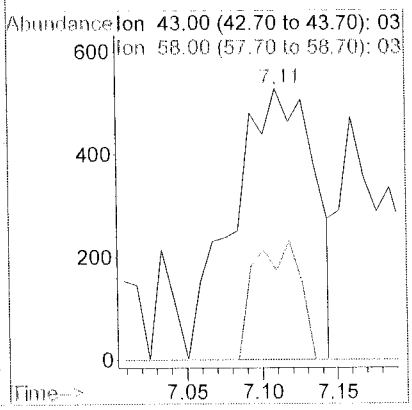


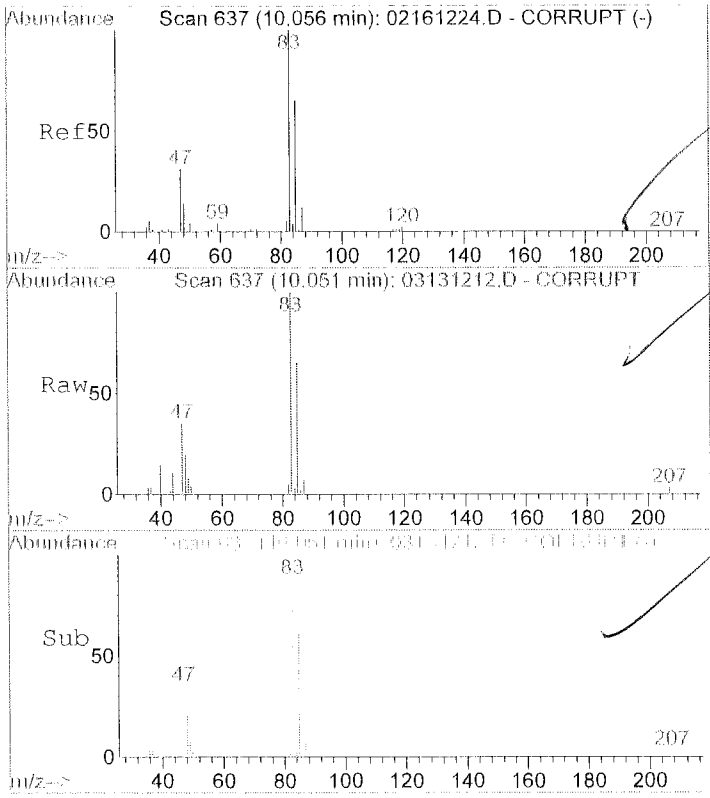


#13
Acetone
Concen: 0.52 ug/L
RT: 7.11 min Scan# 288
Delta R.T. 0.00 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 43 Resp: 1990

Ion	Ratio	Lower	Upper
43	100		
58	24.1	19.1	28.7

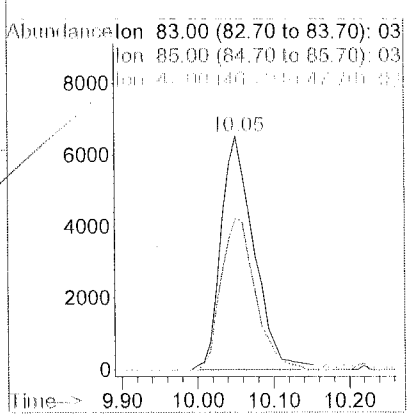




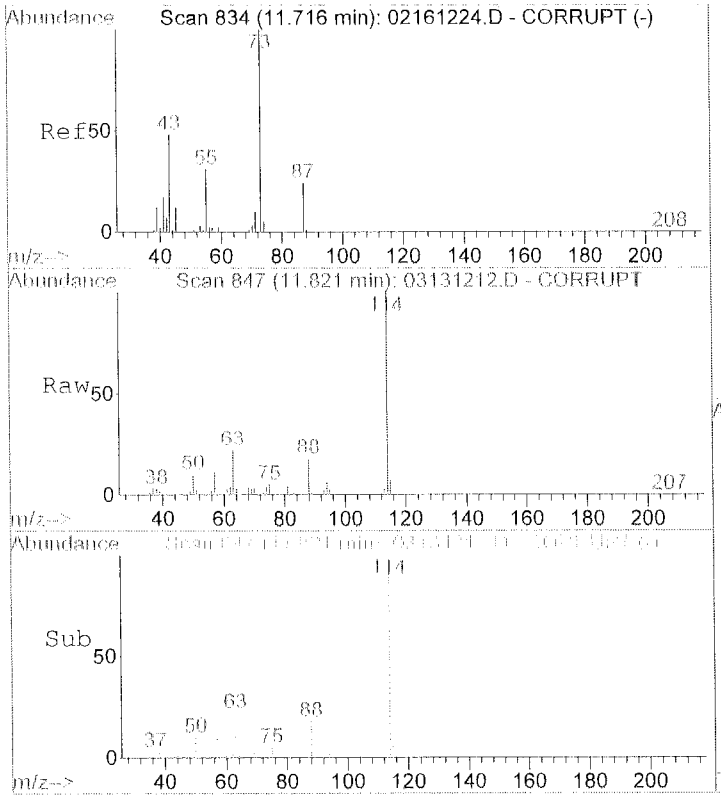
#29
Chloroform
Concen: 0.78 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 83 Resp: 19447

Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.3	78.5
47	33.2	31.8	47.8



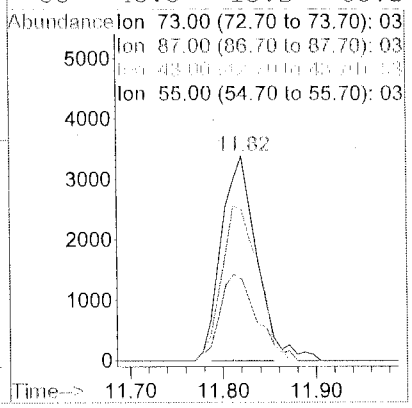
3/14/12

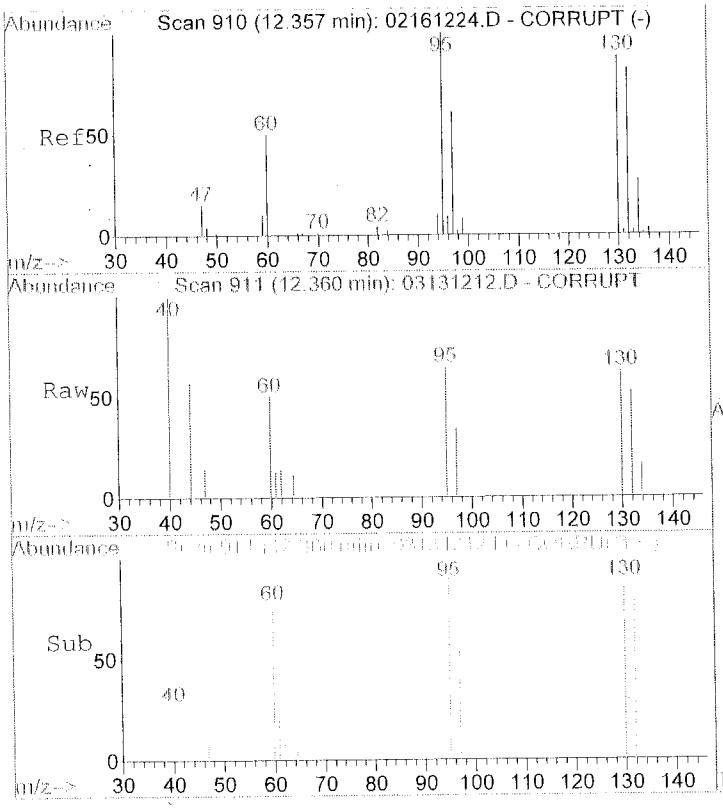


#36
(TAME) tert-Amyl methyl ether
Concen: 0.40 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.11 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 73 Resp: 8953

Ion	Ratio	Lower	Upper
73	100		
87	76.7	3.3	43.3#
43	3.4	27.7	67.7#
55	43.5	13.2	53.2

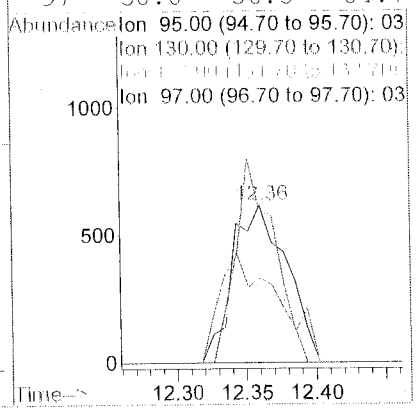


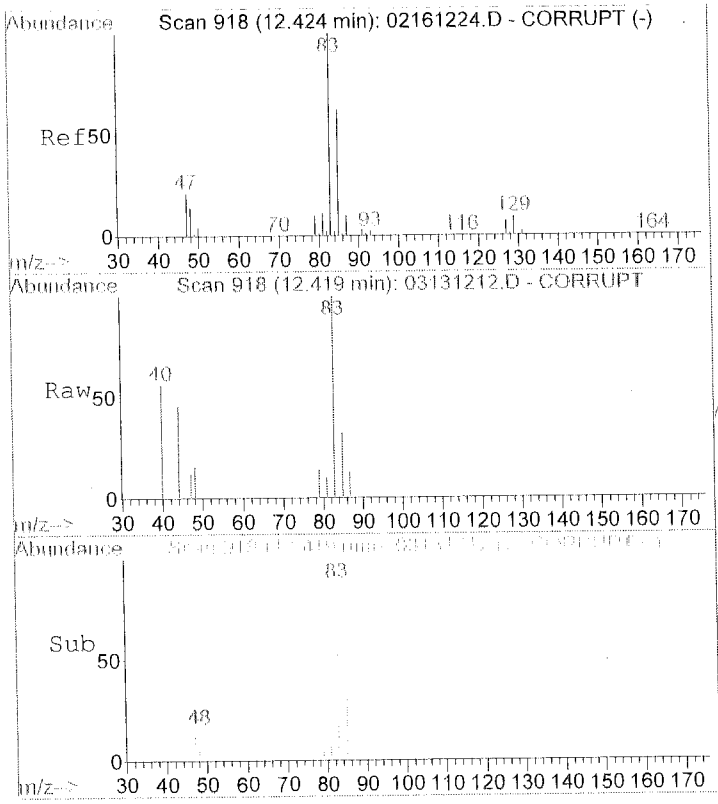


#43
Trichloroethene
Concen: 0.13 ug/L
RT: 12.36 min Scan# 911
Delta R.T. 0.01 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 95 Resp: 1656

Ion	Ratio	Lower	Upper
95	100		
130	108.6	74.2	111.4
132	74.9	71.2	106.8
97	58.0	56.5	84.7

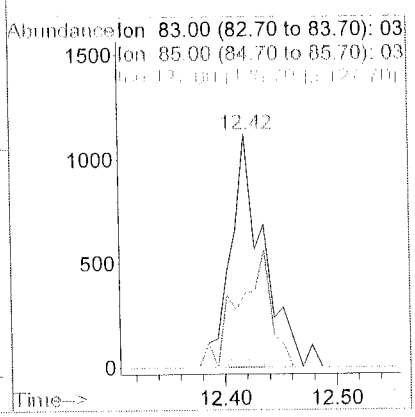


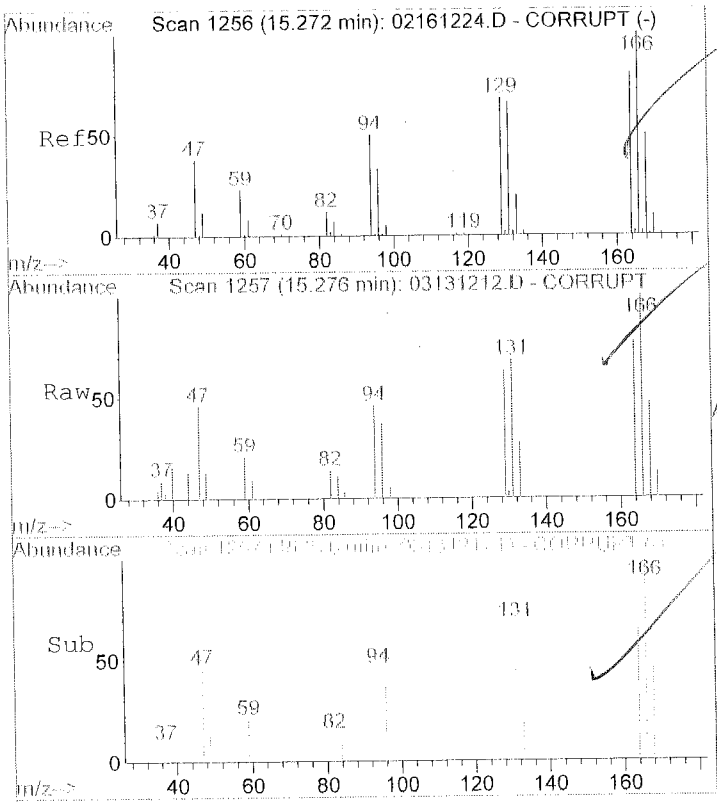


#44
Bromodichloromethane
Concen: 0.14 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.00 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion: 83 Resp: 2280

Ion	Ratio	Lower	Upper
83	100		
85	50.8	51.4	77.0#
127	2.5	6.6	9.8#

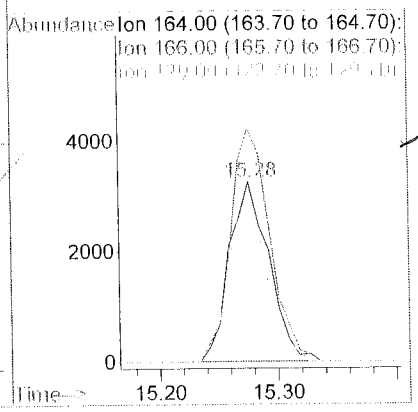




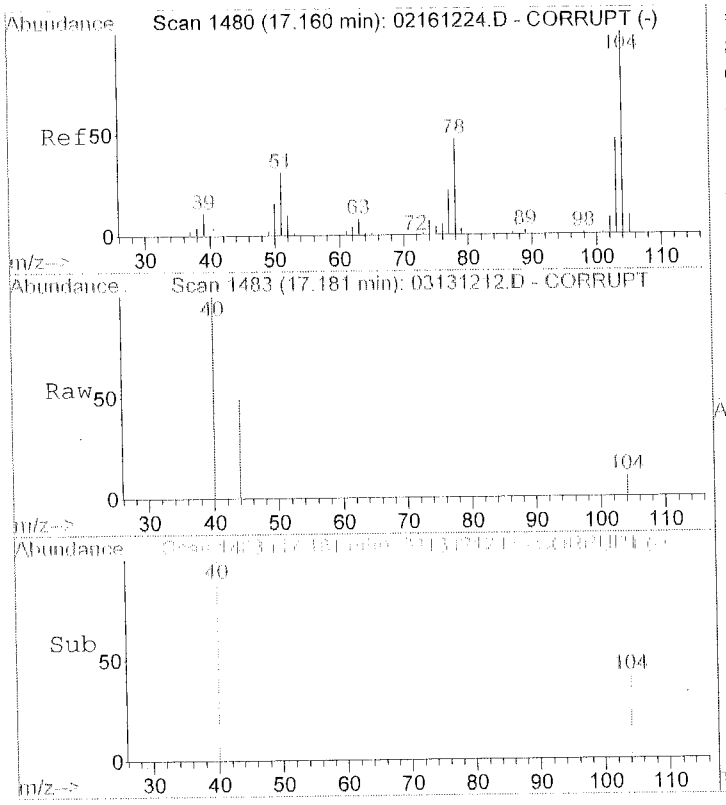
#57
Tetrachloroethene
Concen: 0.83 ug/L
RT: 15.28 min Scan# 1257
Delta R.T. 0.00 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion:164 Resp: 7516

Ion	Ratio	Lower	Upper
164	100		
166	128.4	103.3	154.9
129	88.1	72.7	109.1



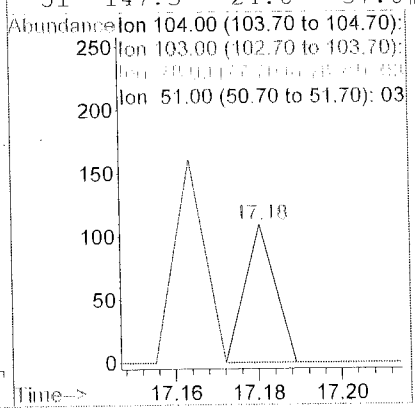
3/14/12

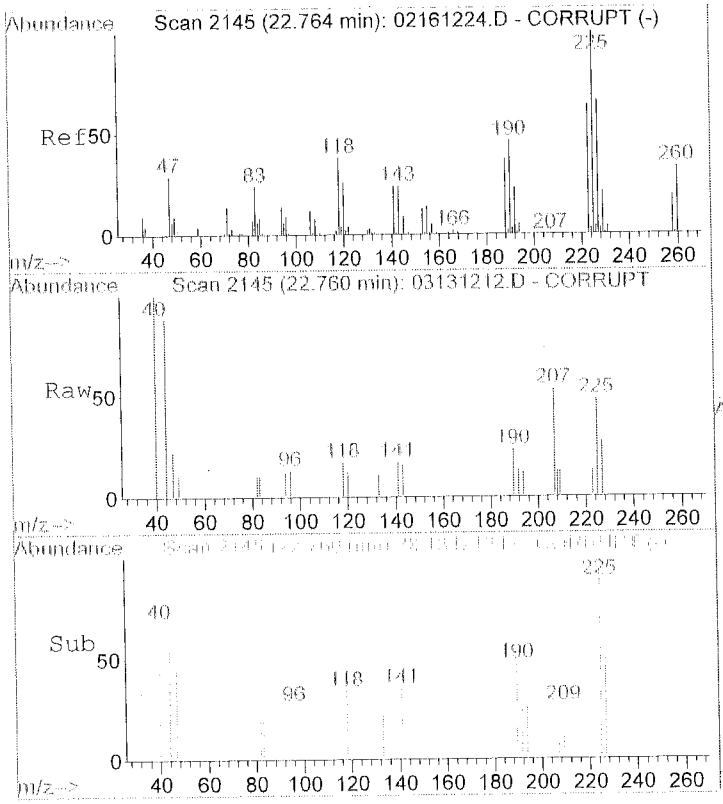


#62
Styrene
Concen: 0.10 ug/L
RT: 17.18 min Scan# 1483
Delta R.T. 0.02 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion:104 Resp: 55

Ion	Ratio	Lower	Upper
104	100		
103	0.0	37.2	55.8#
78	0.0	35.8	53.8#
51	147.3	24.6	37.0#

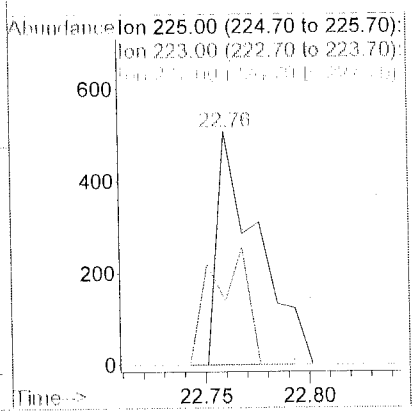




#87
Hexachlorobutadiene
Concen: 0.13 ug/L
RT: 22.76 min Scan# 2145
Delta R.T. 0.00 min
Lab File: 03131212.D
Acq: 13 Mar 2012 3:29 pm

Tgt Ion:225 Resp: 686

Ion	Ratio	Lower	Upper
225	100		
223	45.0	49.8	74.8#
227	81.6	50.7	76.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131213.D Vial: 12
Acq On : 13 Mar 2012 4:00 pm Operator: JH
Sample : PVC0524-04 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.58	65	84396	200.00	ug/L	0.01
4) Pentafluorobenzene	10.69	168	467144	25.00	ug/L	0.00
37) 1,4-Difluorobenzene	11.81	114	749091	25.00	ug/L	0.00
52) Chlorobenzene-d5	16.15	117	628311	25.00	ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	269092	25.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(surr)	10.20	113	291520	25.90	ug/L	0.00
Spiked Amount 25.000			Recovery	=	103.60%	
50) Toluene-d8 (surr)	14.19	98	847499	25.27	ug/L	0.00
Spiked Amount 25.000			Recovery	=	101.08%	
64) 4-Bromofluorobenzene (surr	17.82	95	300616	23.36	ug/L	0.00
Spiked Amount 25.000			Recovery	=	93.44%	
Target Compounds						Qvalue
2) Ethanol	6.07	45	130	2.46	ug/L	89
13) Acetone	7.10	43	2190	0.58	ug/L #	64
17) Methylene Chloride	7.87	84	2028	0.12	ug/L #	60
33) Tetrahydrofuran	10.48	72	68	0.11	ug/L #	1
36) (TAME) tert-Amyl methyl et	11.81	73	8717	0.40	ug/L #	38
39) Carbon Tetrachloride	11.49	117	108818	6.48	ug/L	99
43) Trichloroethene	12.35	95	79829	6.31	ug/L	98
48) trans-1,3-Dichloropropene	13.80	75	58	0.24	ug/L #	25
57) Tetrachloroethene	15.28	164	53300	5.77	ug/L	99
87) Hexachlorobutadiene	22.77	225	619	0.11	ug/L #	50

NT/LR

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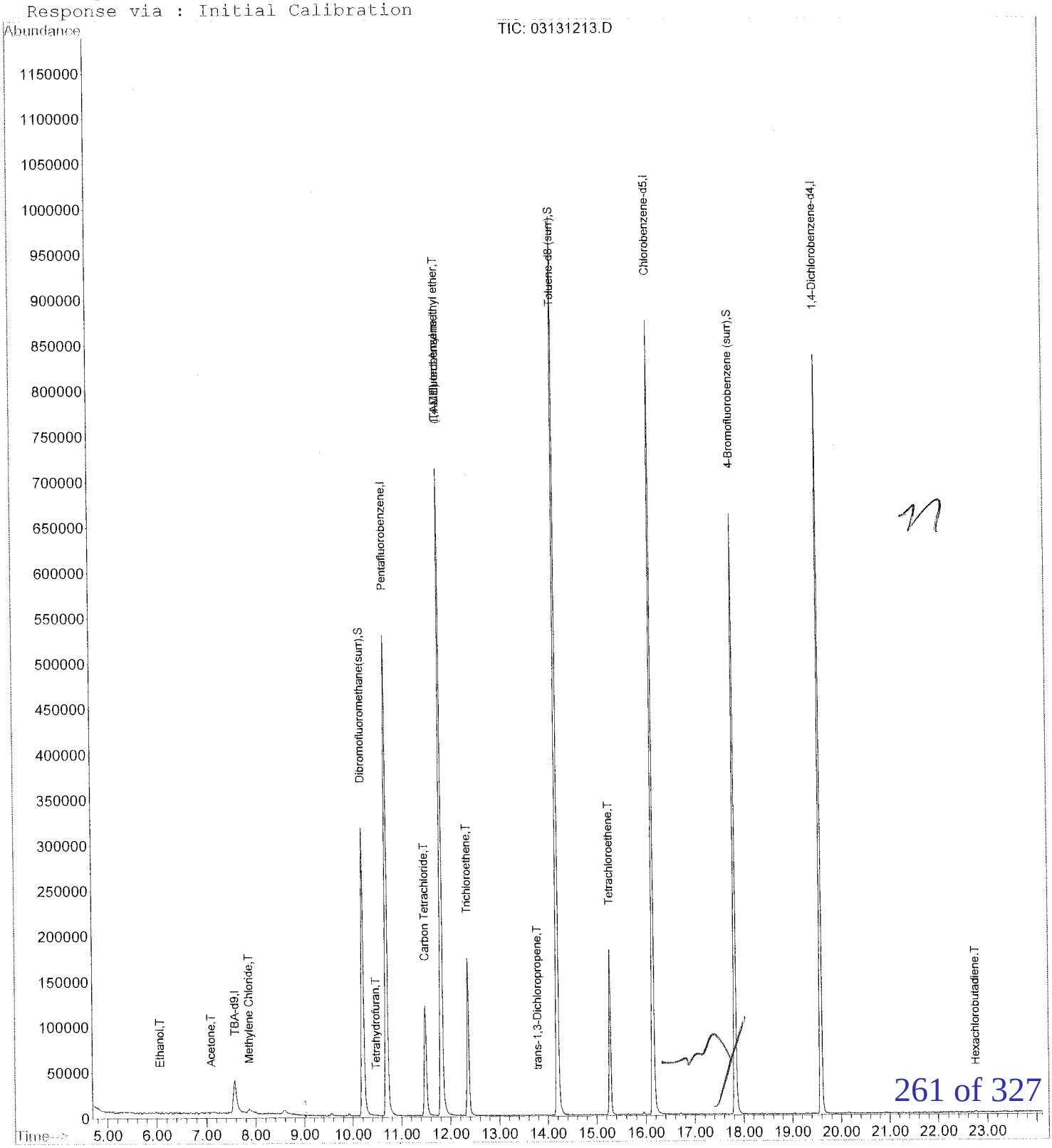
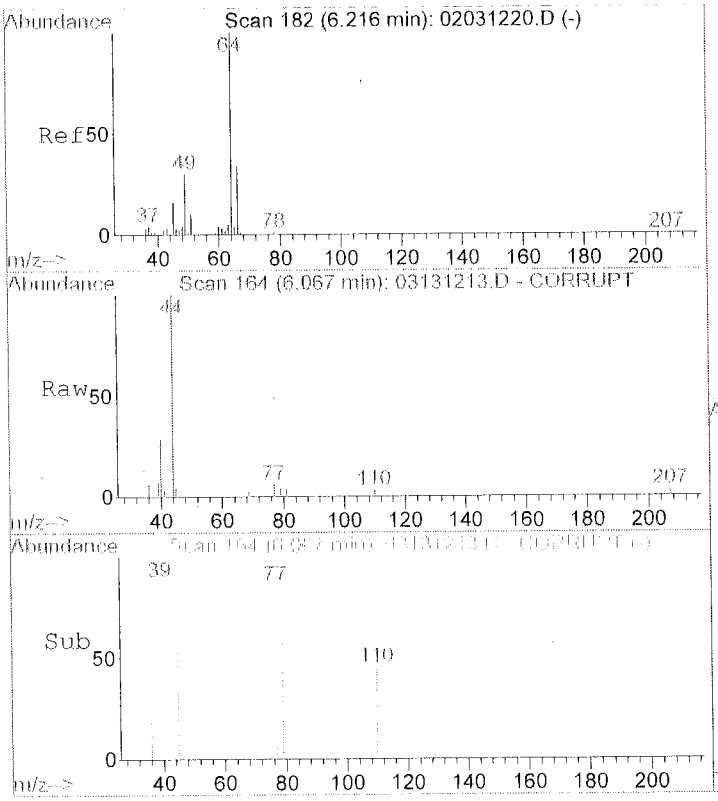
(#) = qualifier out of range (m) = manual integration
03131213.D 031212.M Wed Mar 14 11:23:42 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131213.D Vial: 12
Acq On : 13 Mar 2012 4:00 pm Operator: JH
Sample : PVC0524-04 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

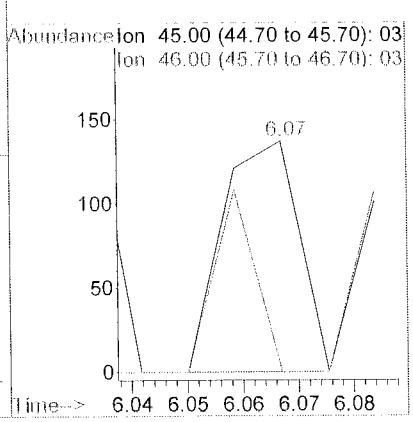


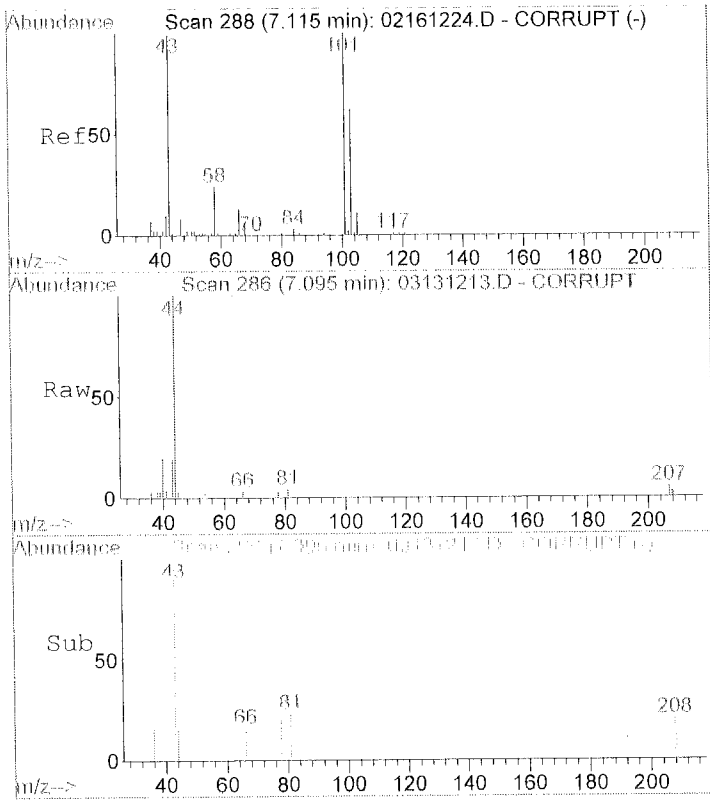


#2
Ethanol
Concen: 2.46 ug/L
RT: 6.07 min Scan# 164
Delta R.T. -0.12 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 45 Resp: 130

Ion	Ratio	Lower	Upper
45	100		
46	42.3	39.8	59.8

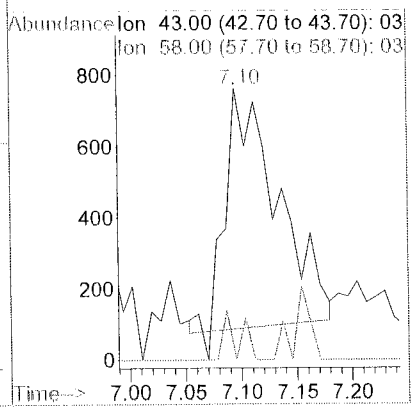


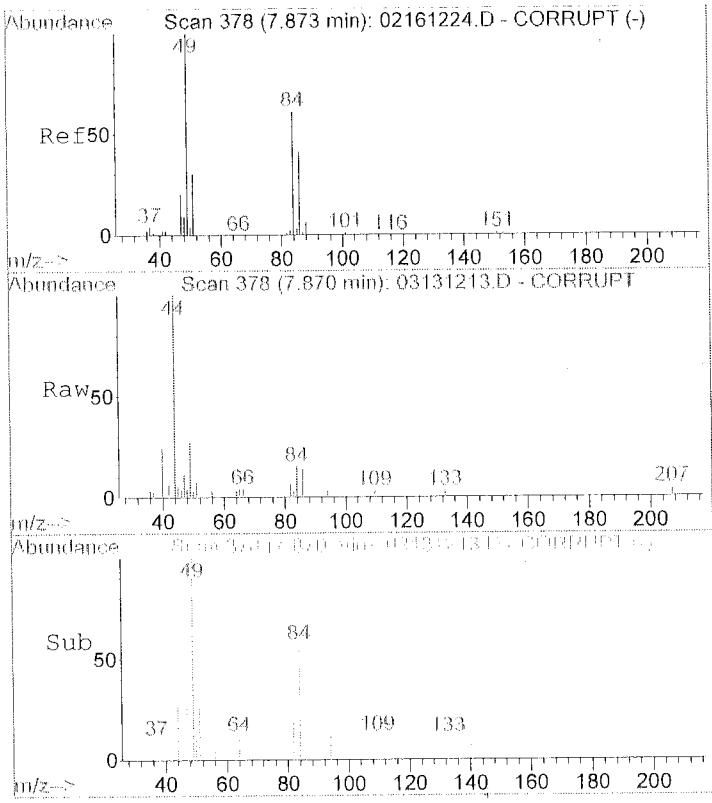


#13
Acetone
Concen: 0.58 ug/L
RT: 7.10 min Scan# 286
Delta R.T. -0.01 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 43 Resp: 2190

Ion	Ratio	Lower	Upper
43	100		
58	5.9	19.1	28.7#

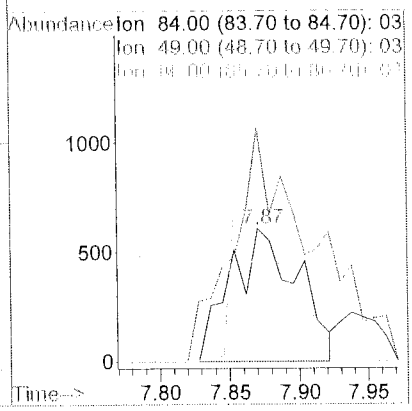


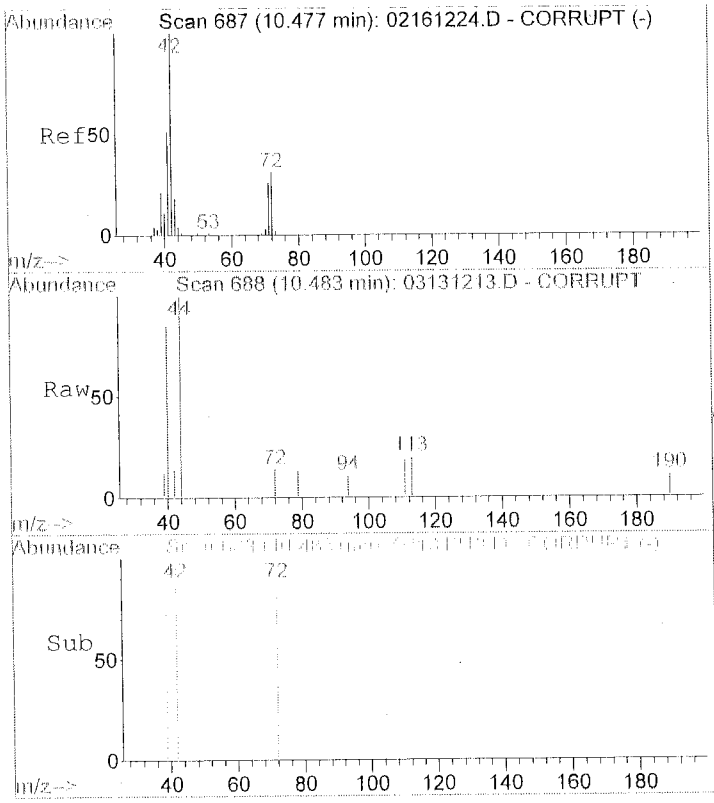


#17
Methylene Chloride
Concen: 0.12 ug/L
RT: 7.87 min Scan# 378
Delta R.T. 0.00 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 84 Resp: 2028

Ion	Ratio	Lower	Upper
84	100		
49	209.9	128.6	193.0#
86	101.2	51.2	76.8#

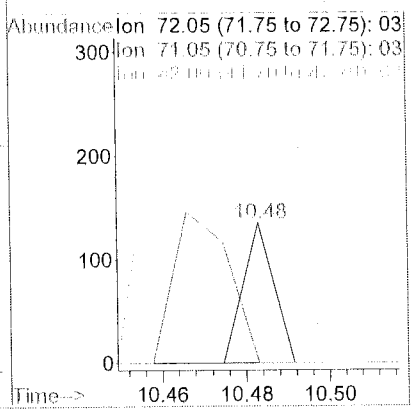


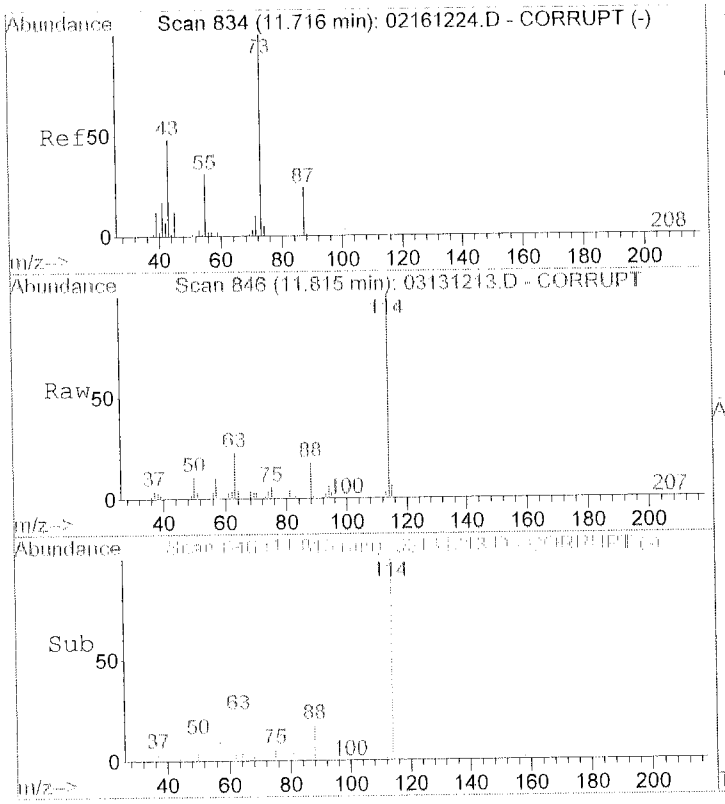


#33
Tetrahydrofuran
Concen: 0.11 ug/L
RT: 10.48 min Scan# 688
Delta R.T. 0.01 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 72 Resp: 68

Ion	Ratio	Lower	Upper
72	100		
71	195.6	74.4	114.4#
42	630.9	318.4	358.4#

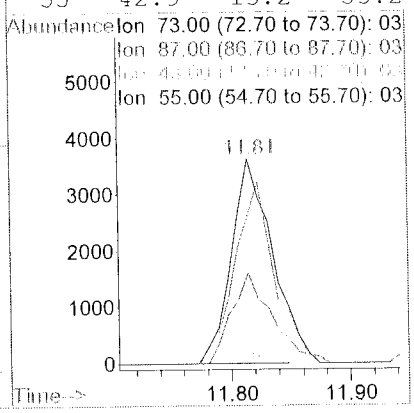




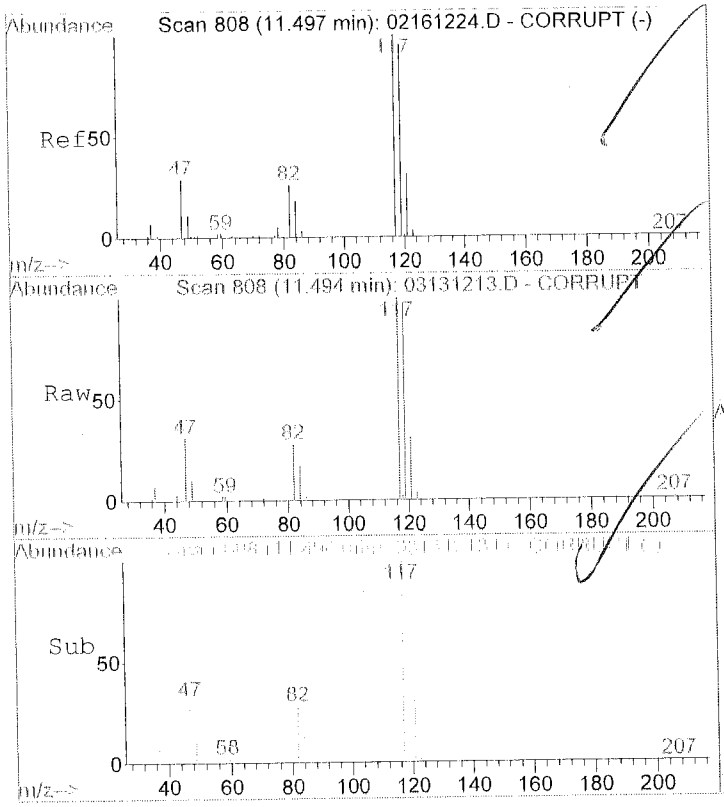
#36
(TAME) tert-Amyl methyl ether
Concen: 0.40 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 73 Resp: 8717

Ion	Ratio	Lower	Upper
73	100		
87	85.4	3.3	43.3#
43	6.7	27.7	67.7#
55	42.9	13.2	53.2



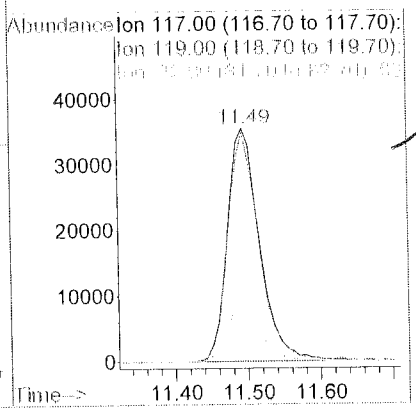
3/14/12



#39
Carbon Tetrachloride
Concen: 6.48 ug/L
RT: 11.49 min Scan# 808
Delta R.T. 0.00 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

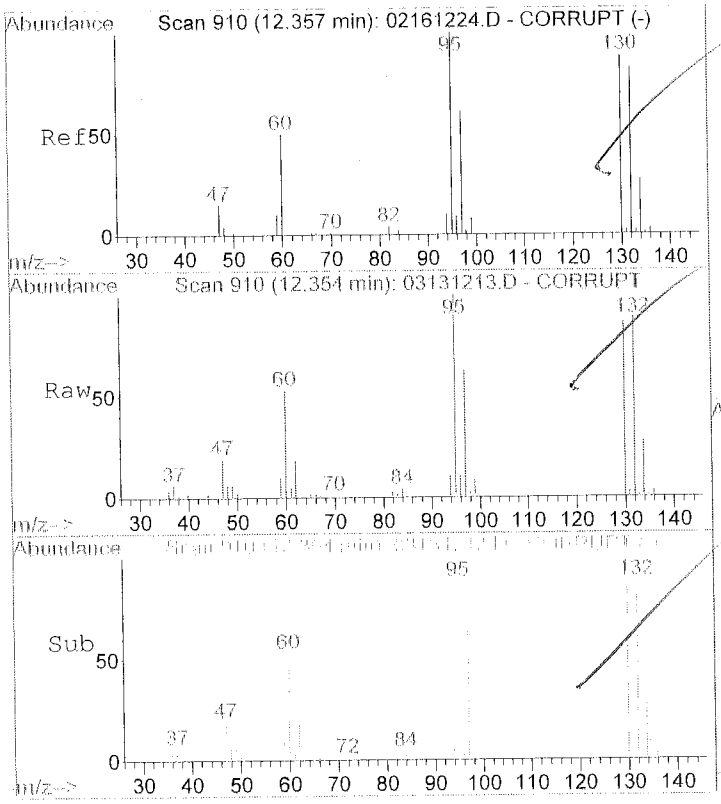
Tgt Ion:117 Resp: 108818

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.3	115.9
82	27.1	21.5	32.3



M

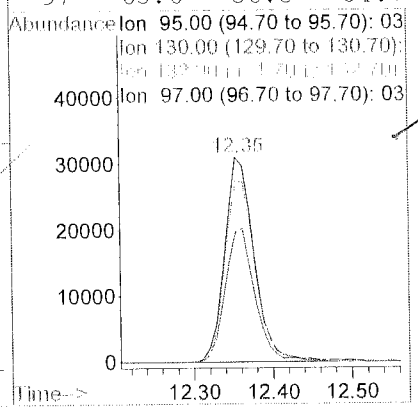
03131213.D 031212.M Wed Mar 14 11:23:43 2012



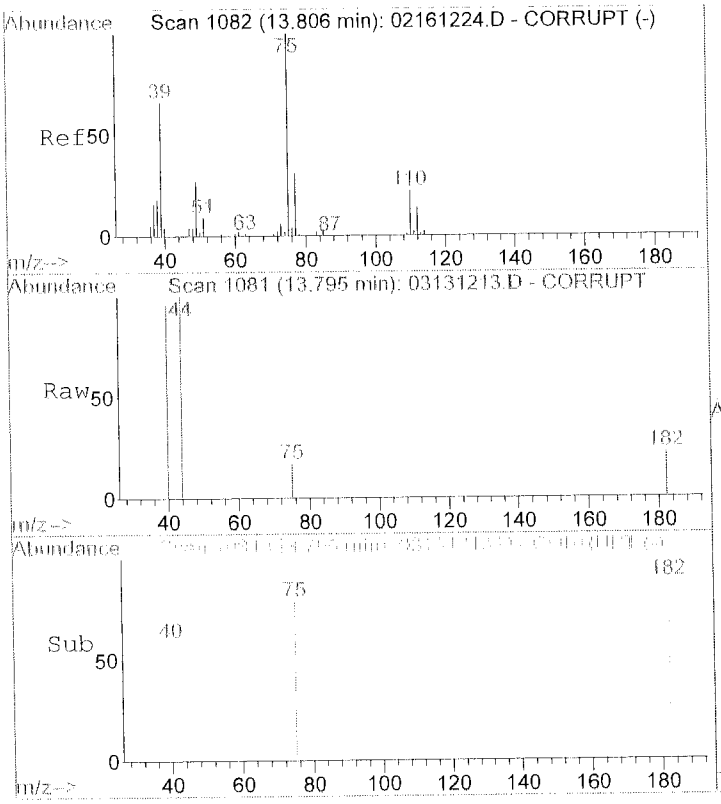
#43
Trichloroethene
Concen: 6.31 ug/L
RT: 12.35 min Scan# 910
Delta R.T. 0.00 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 95 Resp: 79829

Ion	Ratio	Lower	Upper
95	100		
130	92.0	74.2	111.4
132	89.6	71.2	106.8
97	65.6	56.5	84.7



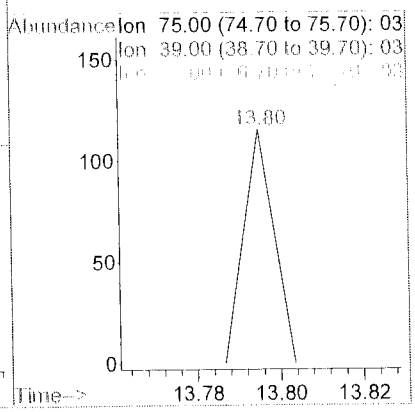
3/14/12
M

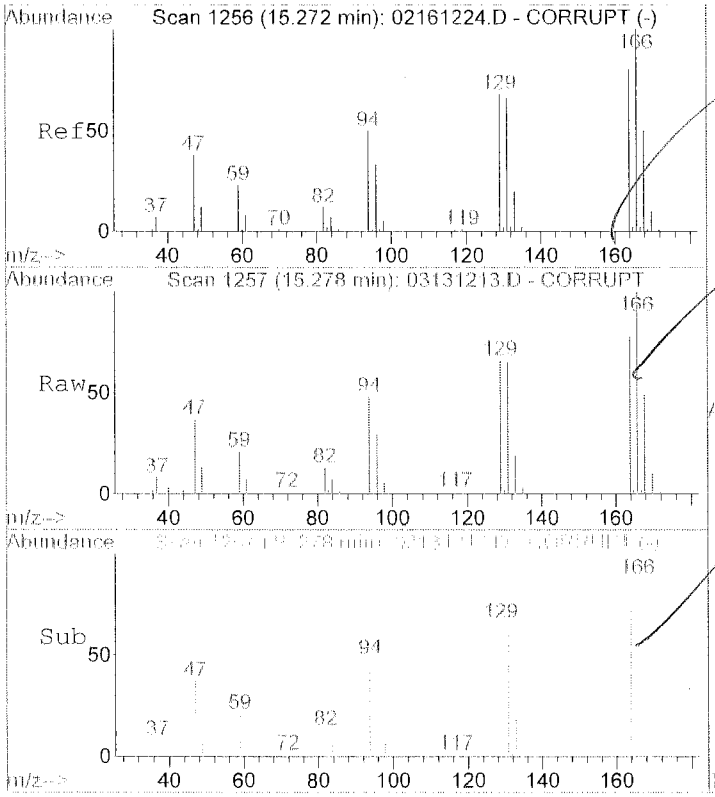


#48
trans-1,3-Dichloropropene
Concen: 0.24 ug/L
RT: 13.80 min Scan# 1081
Delta R.T. -0.01 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion: 75 Resp: 58

Ion	Ratio	Lower	Upper
75	100		
39	0.0	53.5	80.3#
77	0.0	25.1	37.7#

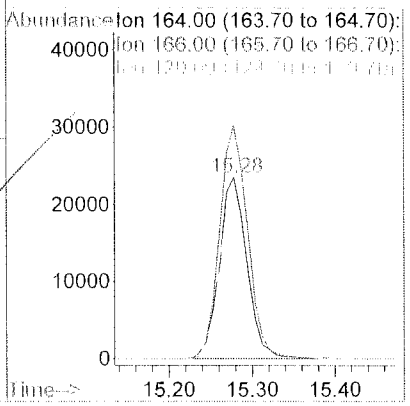




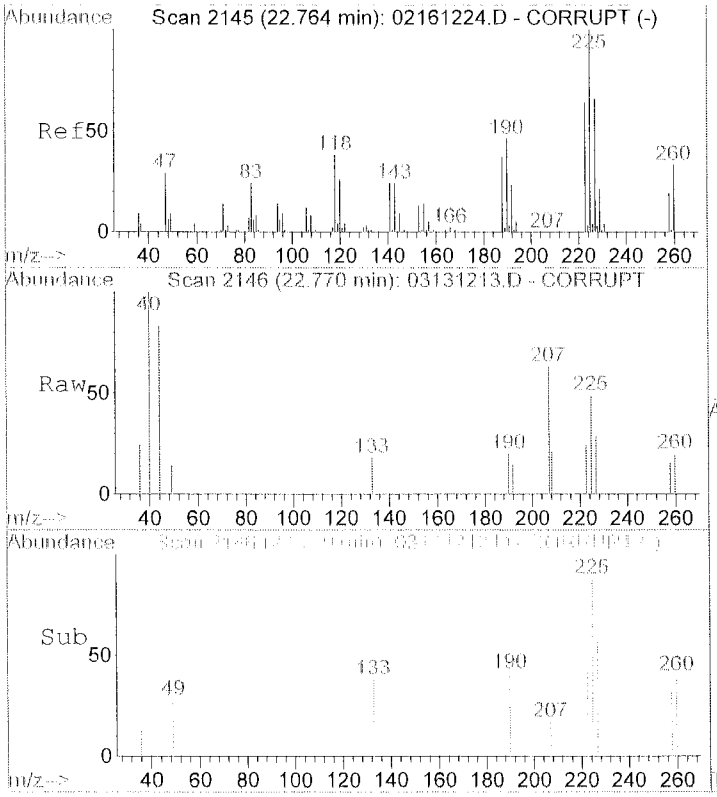
#57
Tetrachloroethene
Concen: 5.77 ug/L
RT: 15.28 min Scan# 1257
Delta R.T. 0.00 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion:164 Resp: 53300

Ion	Ratio	Lower	Upper
164	100		
166	130.4	103.3	154.9
129	89.1	72.7	109.1



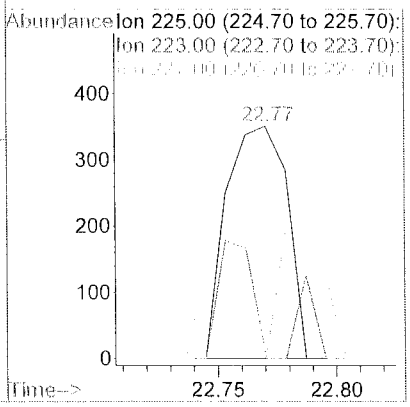
3/14/12



#87
Hexachlorobutadiene
Concen: 0.11 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. 0.01 min
Lab File: 03131213.D
Acq: 13 Mar 2012 4:00 pm

Tgt Ion:225 Resp: 619

Ion	Ratio	Lower	Upper
225	100		
223	10.2	49.8	74.8#
227	37.5	50.7	76.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131214.D Vial: 13
Acq On : 13 Mar 2012 4:32 pm Operator: JH
Sample : PVC0524-05 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.57	65	74708	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	462669	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	735503	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	612122	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	263238	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	285771	25.63 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.52%	
50) Toluene-d8 (surr)	14.19	98	810805	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	
64) 4-Bromofluorobenzene (surr	17.83	95	292817	23.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.44%	

Target Compounds					Qvalue
2) Ethanol	6.17	45	723	15.48 ug/L #	67
13) Acetone	7.12	43	1840	0.49 ug/L #	58
29) Chloroform	10.05	83	42245	1.73 ug/L	95
36) (TAME) tert-Amyl methyl et	11.82	73	8664	0.40 ug/L #	40
43) Trichloroethene	12.36	95	12079	0.97 ug/L	95
44) Bromodichloromethane	12.42	83	10879	0.68 ug/L #	91
55) Dibromochloromethane	14.73	129	2185	0.24 ug/L	100
57) Tetrachloroethene	15.27	164	15198	1.69 ug/L	97

NTHL

J

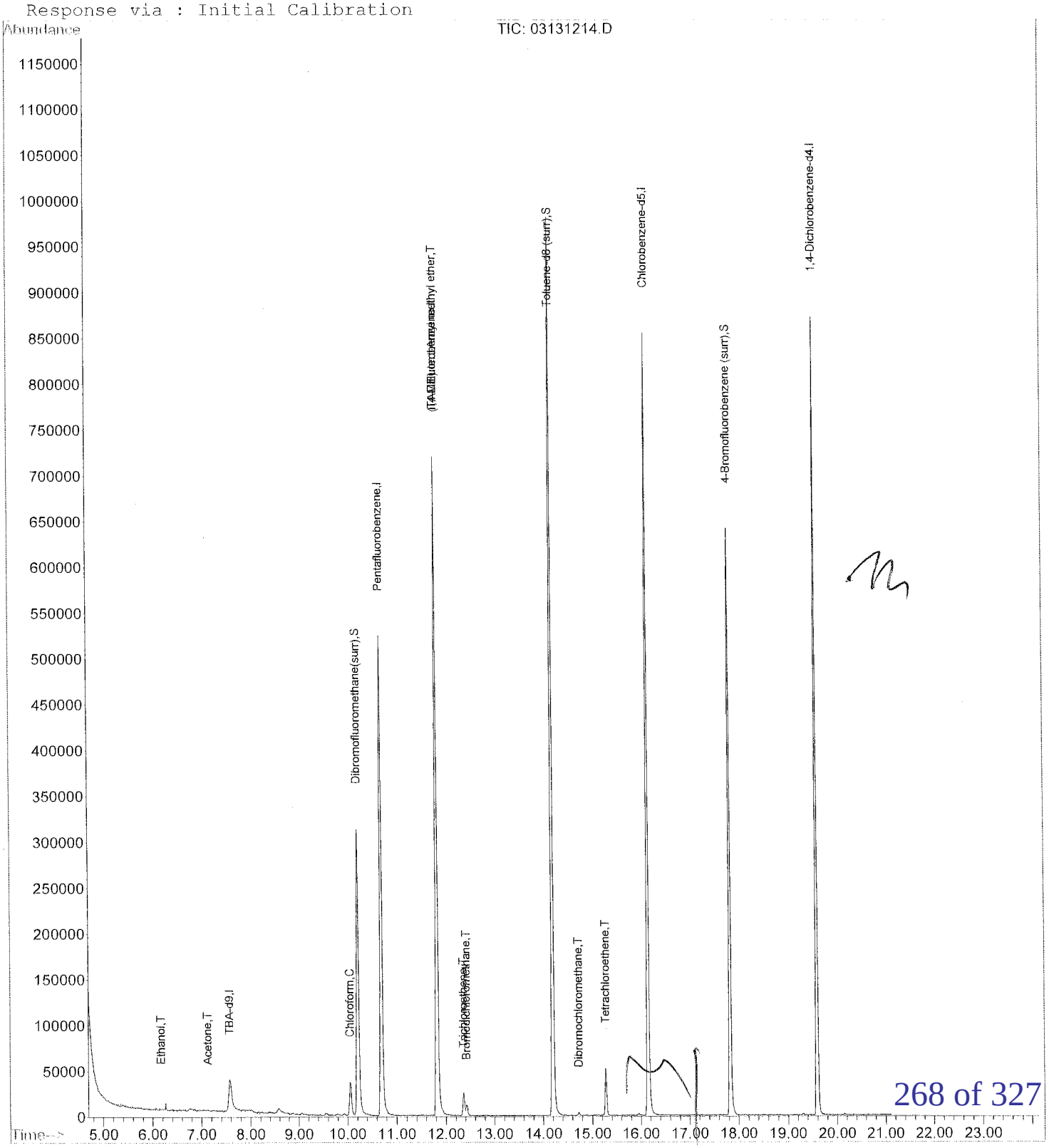
3/14/12 m

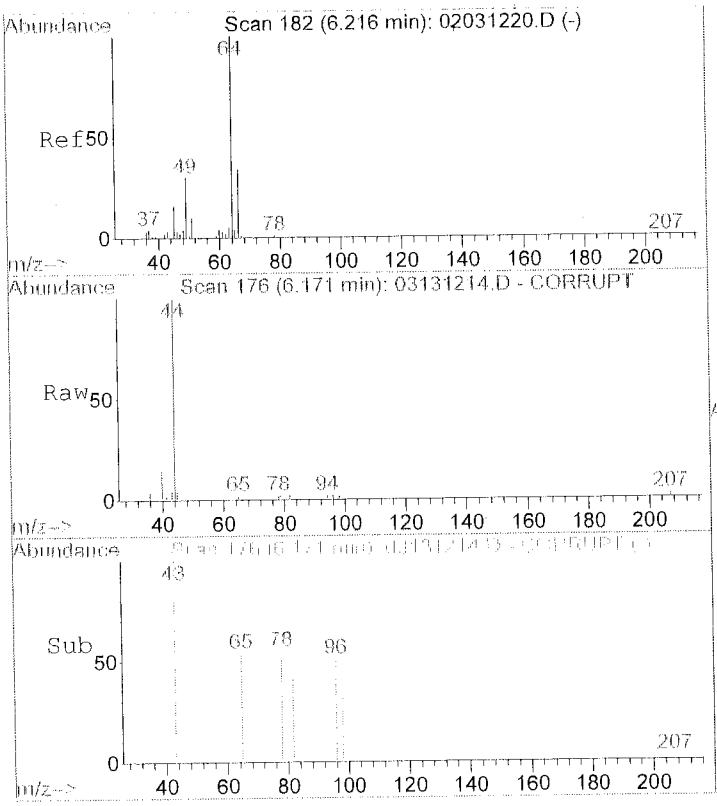
(#) = qualifier out of range (m) = manual integration
03131214.D 031212.M Wed Mar 14 11:24:07 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131214.D Vial: 13
Acq On : 13 Mar 2012 4:32 pm Operator: JH
Sample : PVC0524-05 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:23 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

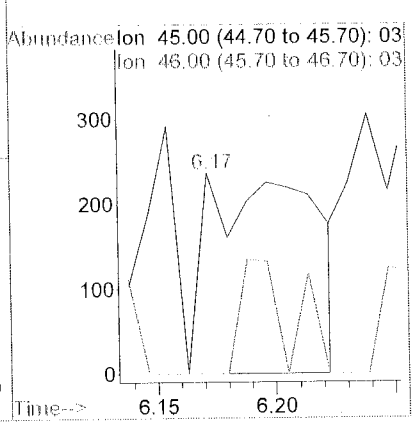


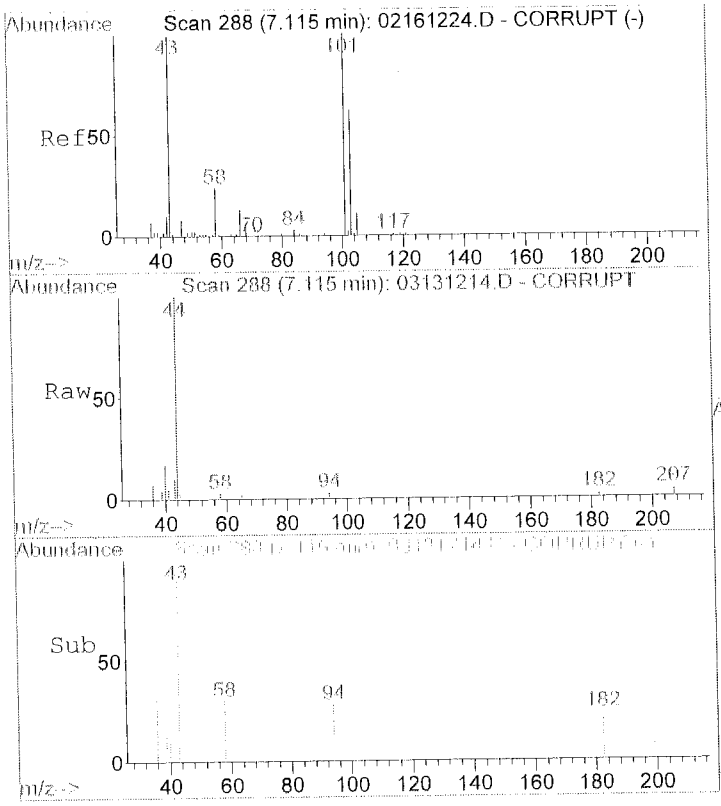


#2
Ethanol
Concen: 15.48 ug/L
RT: 6.17 min Scan# 176
Delta R.T. -0.01 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 45 Resp: 723

Ion	Ratio	Lower	Upper
45	100		
46	26.8	39.8	59.8#

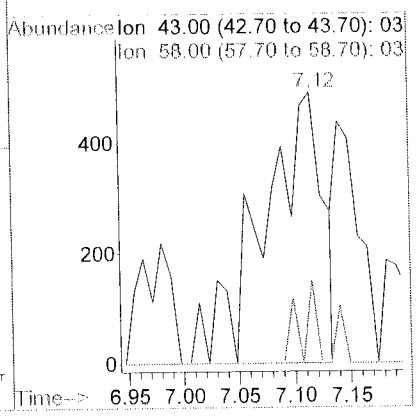


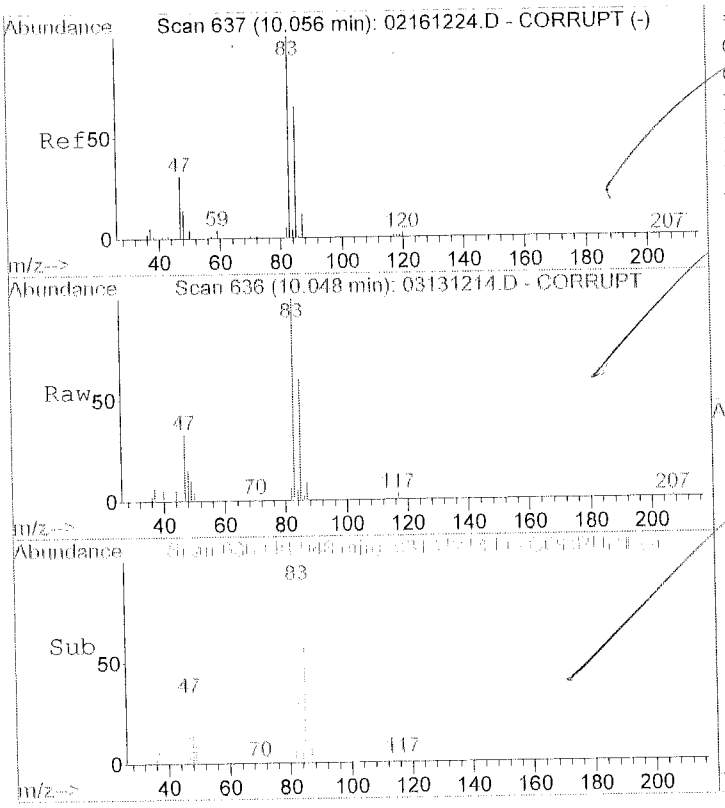


#13
Acetone
Concen: 0.49 ug/L
RT: 7.12 min Scan# 288
Delta R.T. 0.01 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 43 Resp: 1840

Ion	Ratio	Lower	Upper
43	100		
58	3.3	19.1	28.7#

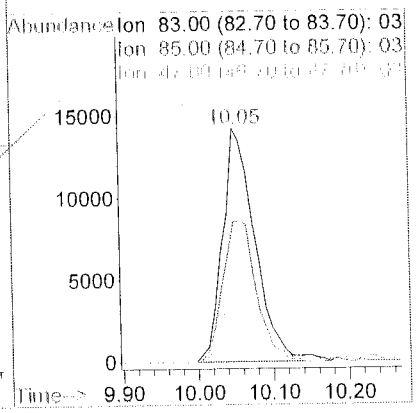




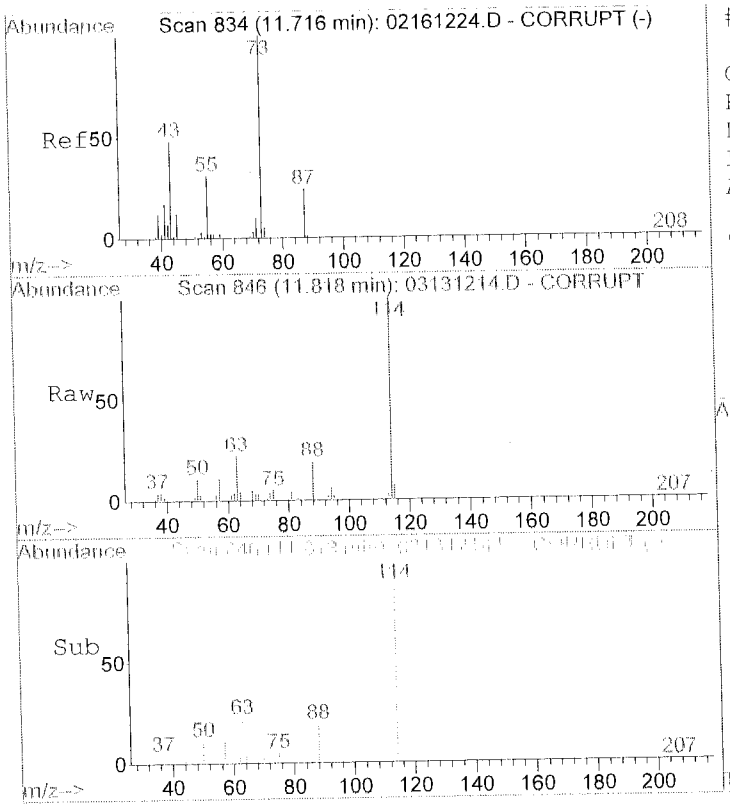
#29
Chloroform
Concen: 1.73 ug/L
RT: 10.05 min Scan# 636
Delta R.T. -0.00 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 83 Resp: 42245

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.3	78.5
47	33.6	31.8	47.8



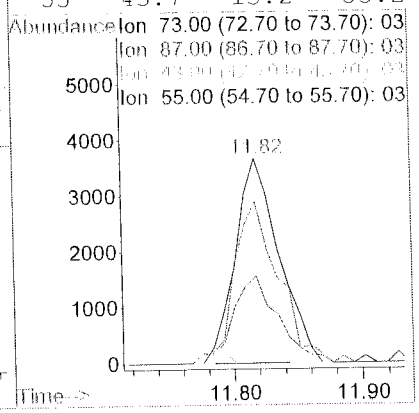
3/14/12
M

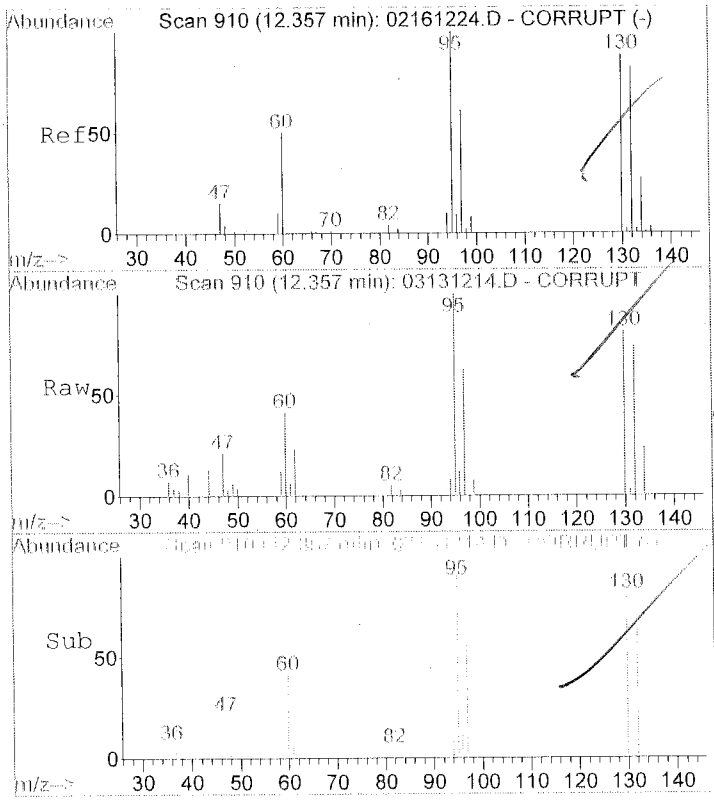


#36
(TAME) tert-Amyl methyl ether
Concen: 0.40 ug/L
RT: 11.82 min Scan# 846
Delta R.T. 0.11 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 73 Resp: 8664

Ion	Ratio	Lower	Upper
73	100		
87	78.7	3.3	43.3#
43	5.7	27.7	67.7#
55	43.7	13.2	53.2

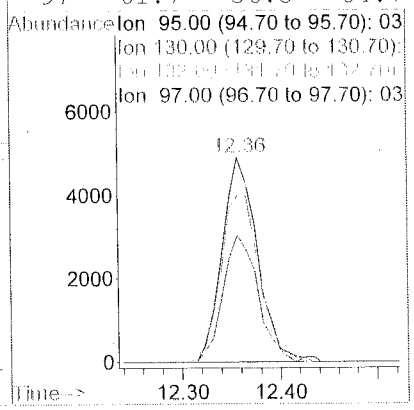




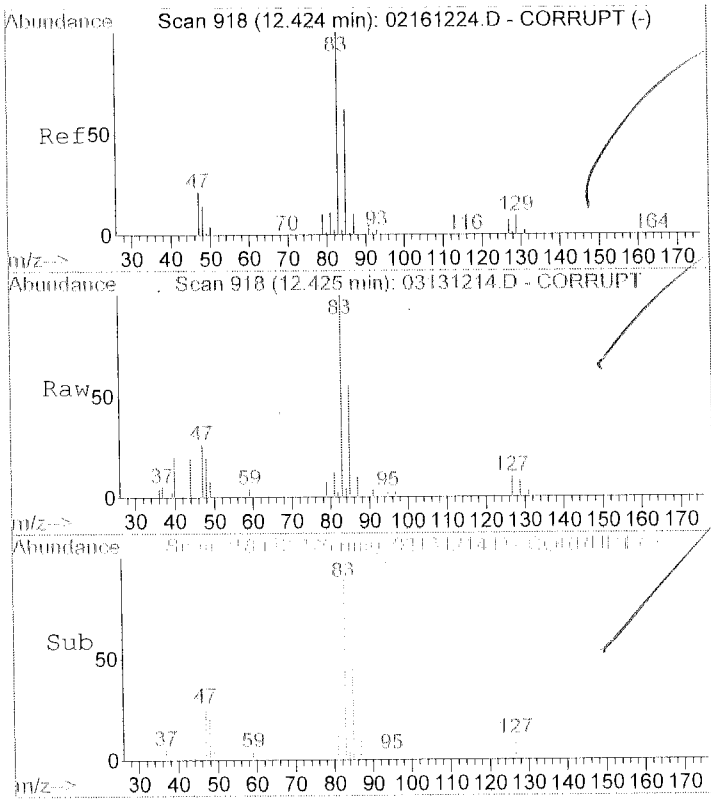
#43
Trichloroethene
Concen: 0.97 ug/L
RT: 12.36 min Scan# 910
Delta R.T. 0.01 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 95 Resp: 12079

Ion	Ratio	Lower	Upper
95	100		
130	90.1	74.2	111.4
132	85.8	71.2	106.8
97	61.7	56.5	84.7



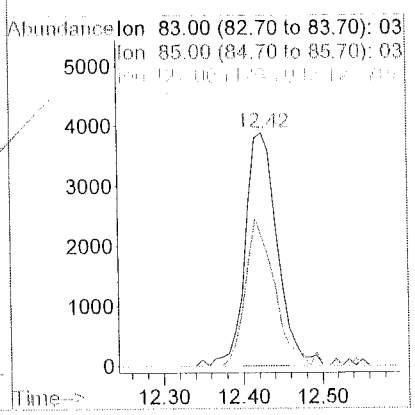
3/14/12

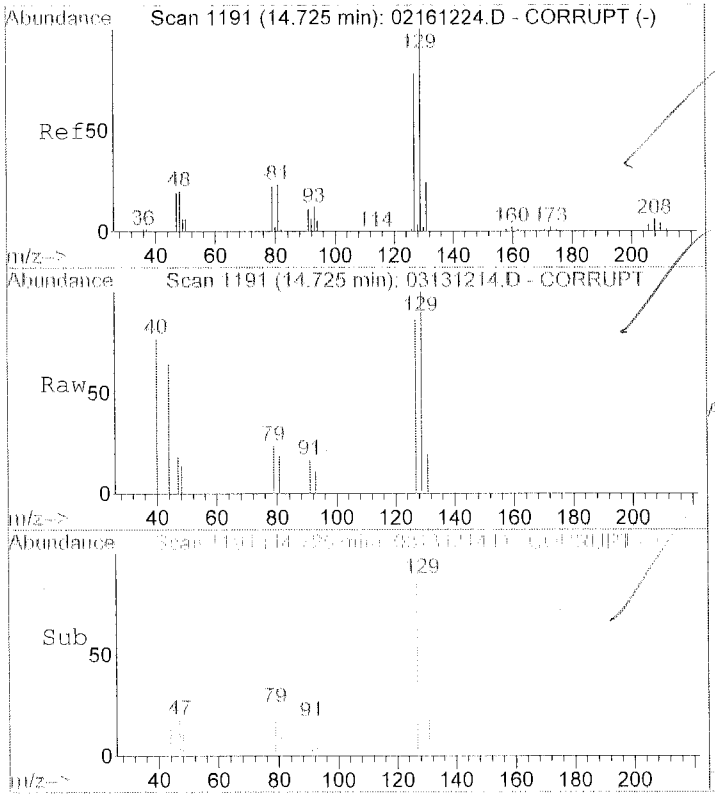


#44
Bromodichloromethane
Concen: 0.68 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.01 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion: 83 Resp: 10879

Ion	Ratio	Lower	Upper
83	100		
85	56.9	51.4	77.0
127	5.6	6.6	9.8#

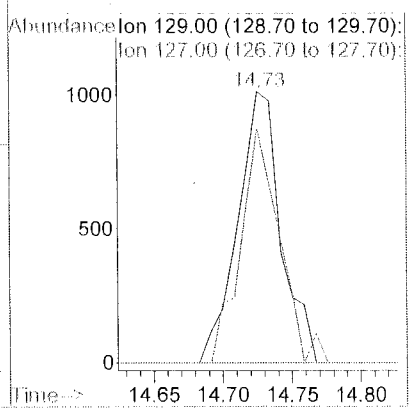




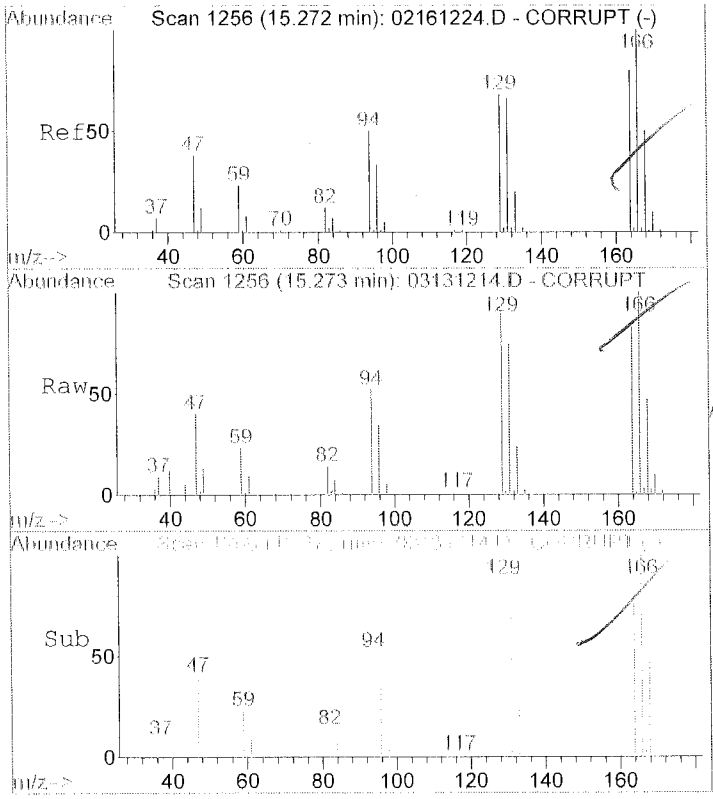
#55
Dibromochloromethane
Concen: 0.24 ug/L
RT: 14.73 min Scan# 1191
Delta R.T. 0.01 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion:129 Resp: 2185

Ion	Ratio	Lower	Upper
129	100		
127	78.4	62.5	93.7



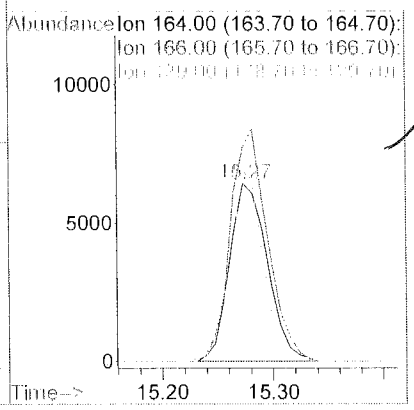
J



#57
Tetrachloroethene
Concen: 1.69 ug/L
RT: 15.27 min Scan# 1256
Delta R.T. -0.00 min
Lab File: 03131214.D
Acq: 13 Mar 2012 4:32 pm

Tgt Ion:164 Resp: 15198

Ion	Ratio	Lower	Upper
164	100		
166	128.0	103.3	154.9
129	95.5	72.7	109.1



3/14/12
M

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131215.D Vial: 14
Acq On : 13 Mar 2012 5:03 pm Operator: JH
Sample : PVC0524-06 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:24 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	76983	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	459662	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	737025	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	614583	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	263798	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.20	113	283299	25.57 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.28%	
50) Toluene-d8 (surr)	14.19	98	832660	25.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.96%	
64) 4-Bromofluorobenzene (surr	17.83	95	309733	24.61 ug/L	0.01
Spiked Amount 25.000			Recovery	= 98.44%	

Target Compounds					Qvalue
2) Ethanol	6.20	45	251	5.21 ug/L	97
3) tert-Butanol (TBA)	7.79	59	67	0.10 ug/L #	80
13) Acetone	7.12	43	1923	0.51 ug/L #	71
29) Chloroform	10.05	83	41092	1.69 ug/L	95
36) (TAME) tert-Amyl methyl et	11.82	73	8482	0.39 ug/L #	38
43) Trichloroethene	12.36	95	12542	1.01 ug/L	95
44) Bromodichloromethane	12.42	83	10336	0.64 ug/L	98
55) Dibromochloromethane	14.73	129	2412	0.26 ug/L	88
57) Tetrachloroethene	15.28	164	15327	1.70 ug/L	99
87) Hexachlorobutadiene	22.77	225	611	0.11 ug/L #	49

N 7/1/w

3/14/w

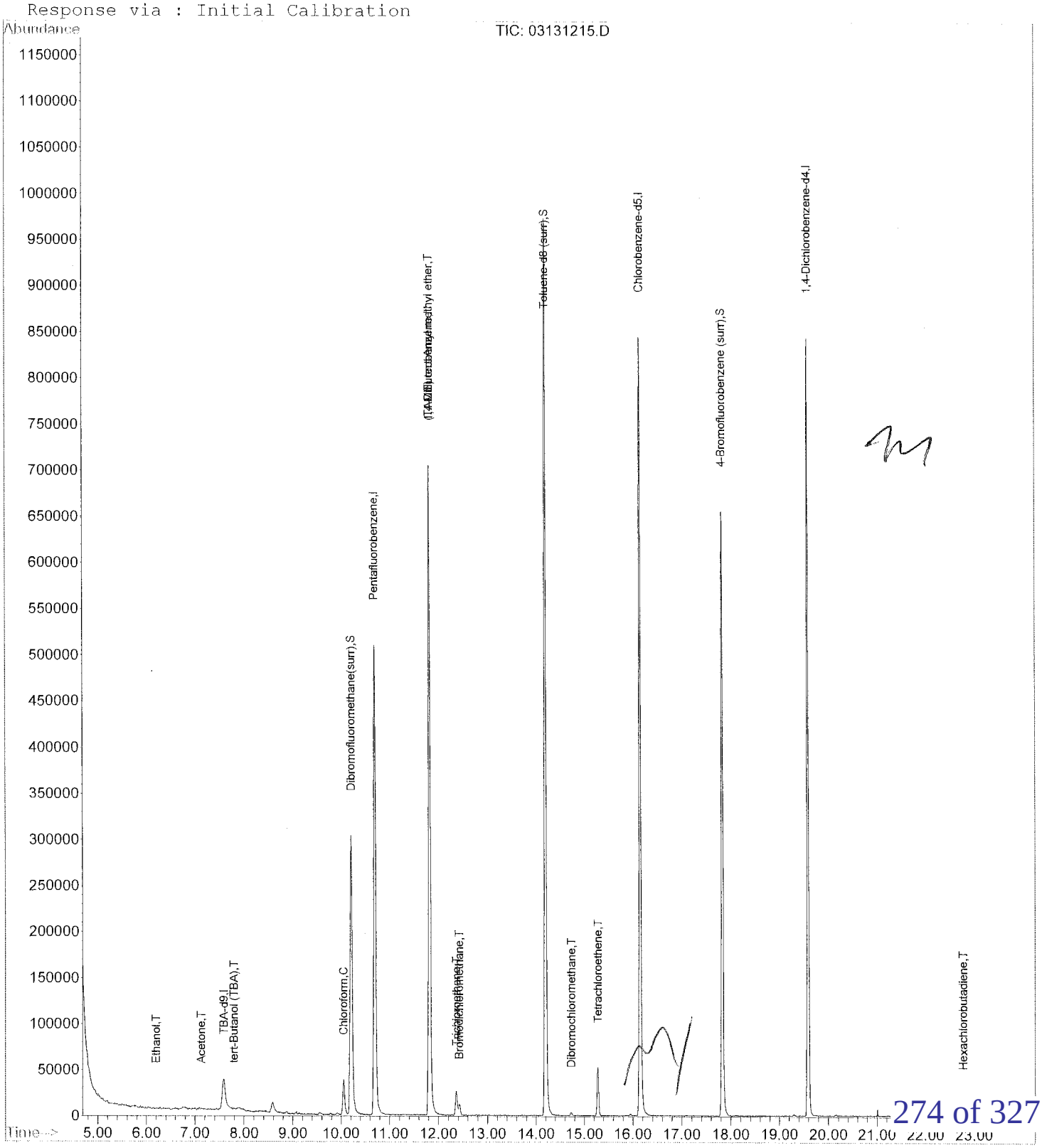
M 7/15/w

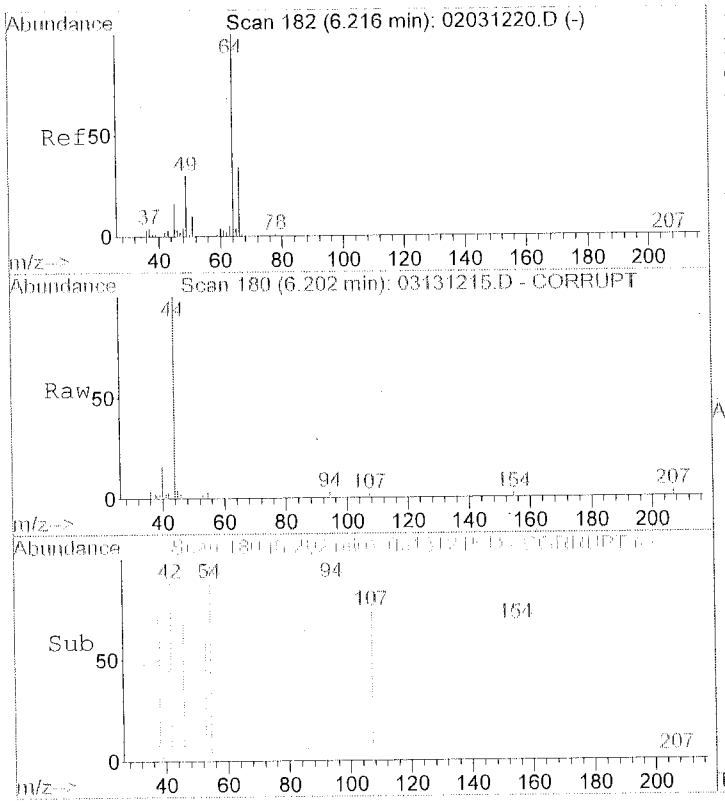
(#) = qualifier out of range (m) = manual integration
03131215.D 031212.M Wed Mar 14 11:24:29 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131215.D Vial: 14
Acq On : 13 Mar 2012 5:03 pm Operator: JH
Sample : PVC0524-06 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:24 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

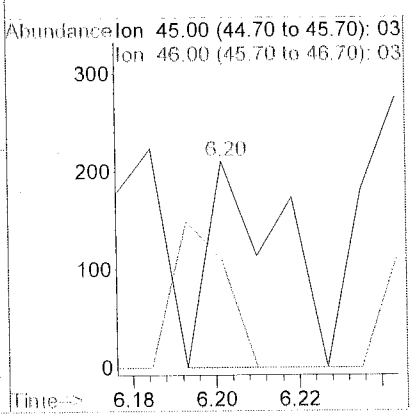


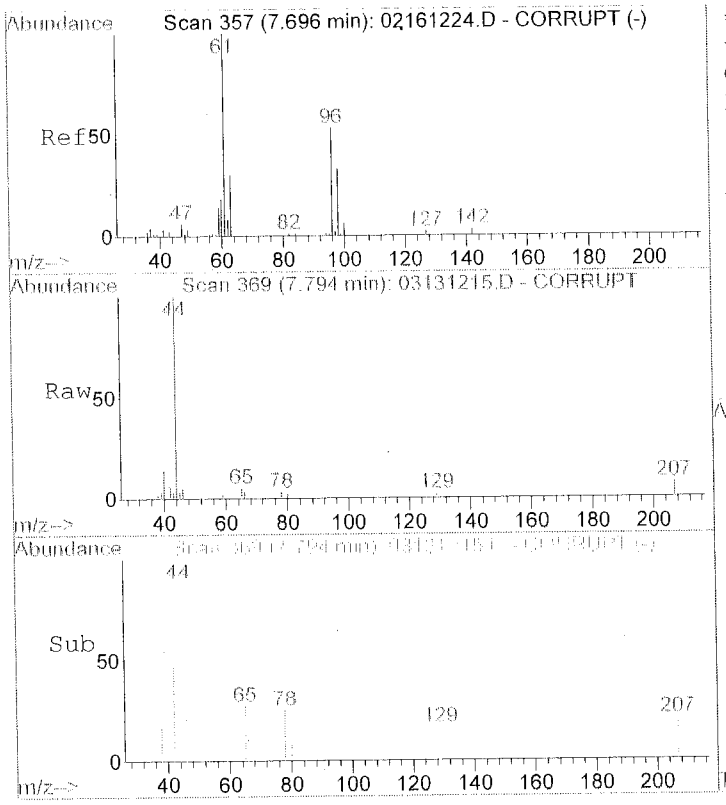


#2
Ethanol
Concen: 5.21 ug/L
RT: 6.20 min Scan# 180
Delta R.T. 0.02 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 45 Resp: 251

Ion	Ratio	Lower	Upper
45	100		
46	51.8	39.8	59.8

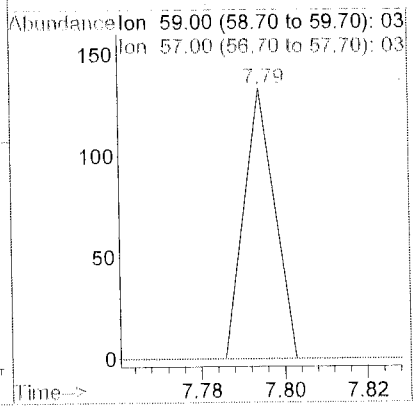


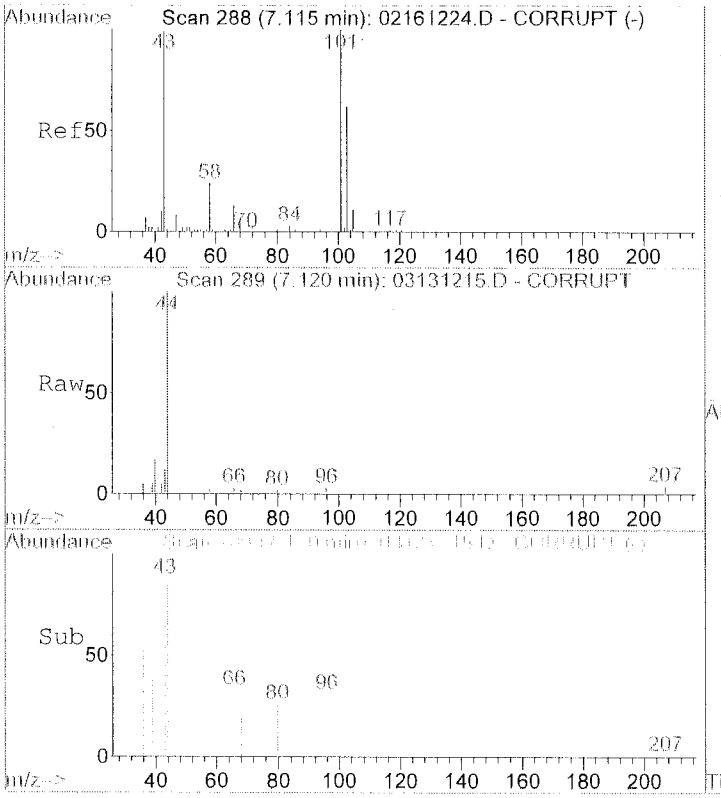


#3
tert-Butanol (TBA)
Concen: 0.10 ug/L
RT: 7.79 min Scan# 369
Delta R.T. 0.11 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 59 Resp: 67

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

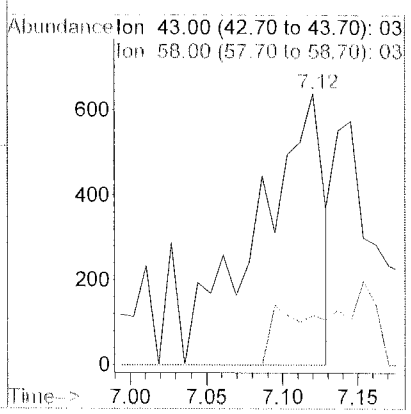




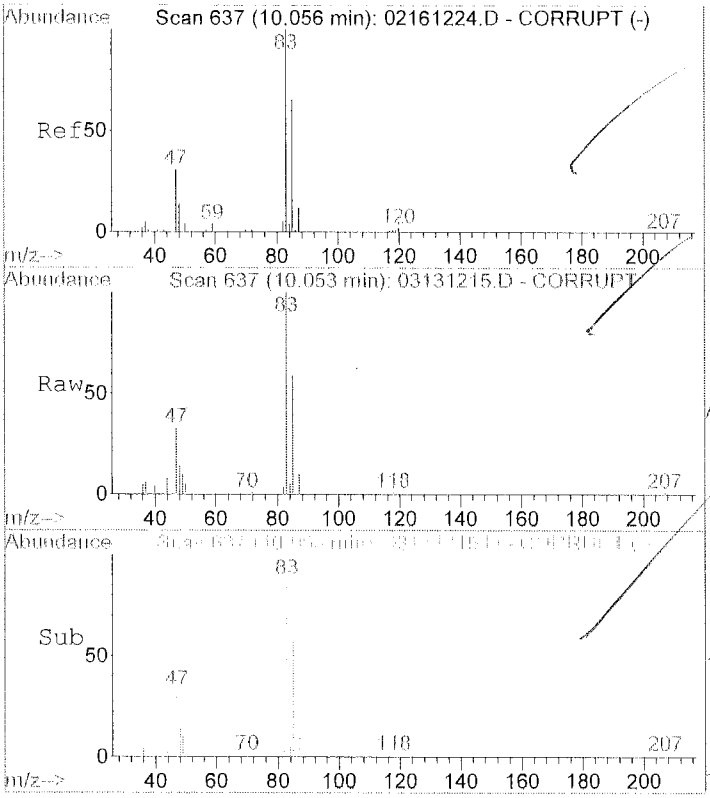
#13
Acetone
Concen: 0.51 ug/L
RT: 7.12 min Scan# 289
Delta R.T. 0.01 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 43 Resp: 1923

Ion	Ratio	Lower	Upper
43	100		
58	9.4	19.1	28.7#



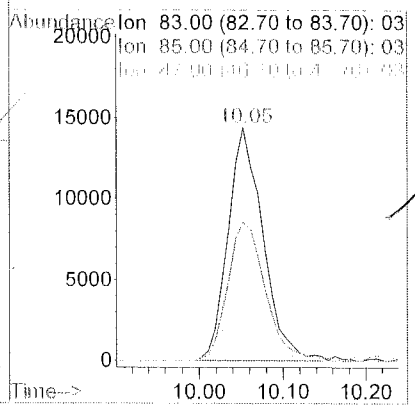
3/14/12

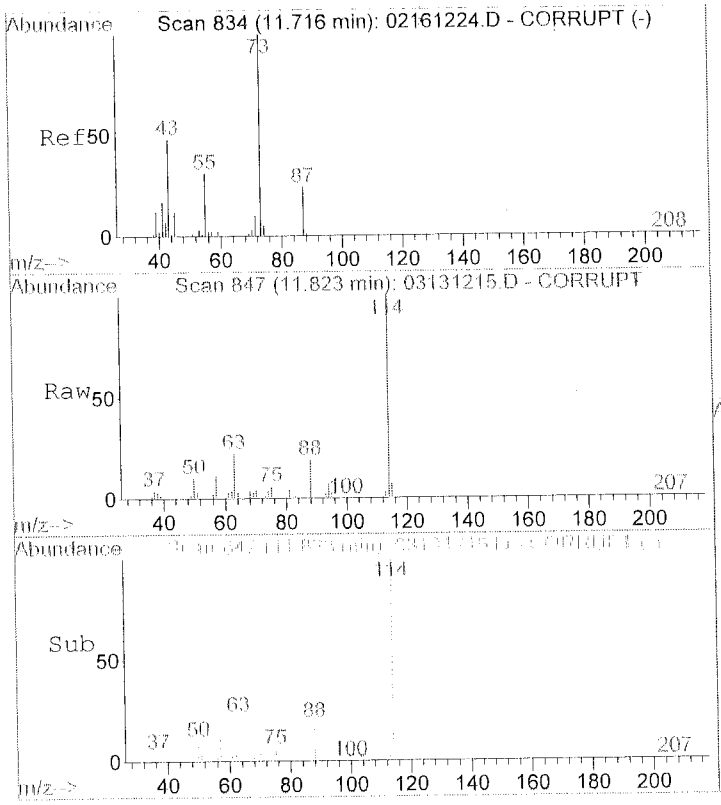


#29
Chloroform
Concen: 1.69 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 83 Resp: 41092

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.3	78.5
47	33.0	31.8	47.8

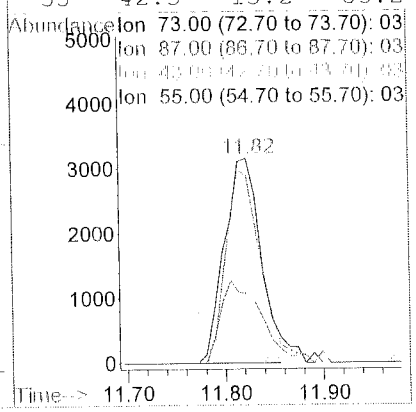


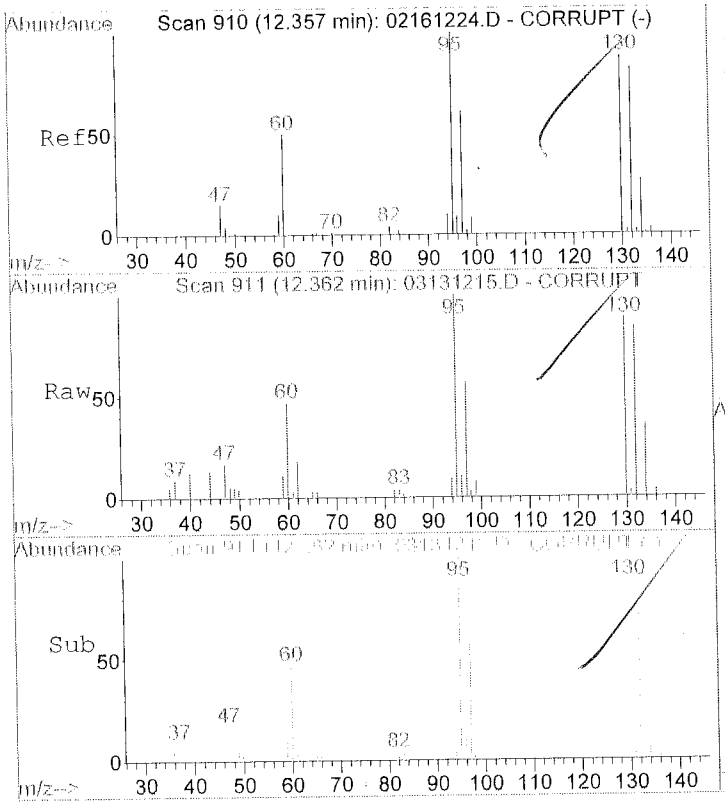


#36
(TAME) tert-Amyl methyl ether
Concen: 0.39 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.11 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 73 Resp: 8482

Ion	Ratio	Lower	Upper
73	100		
87	88.1	3.3	43.3#
43	7.9	27.7	67.7#
55	42.3	13.2	53.2

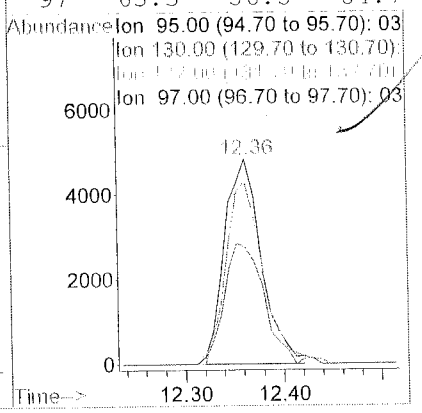




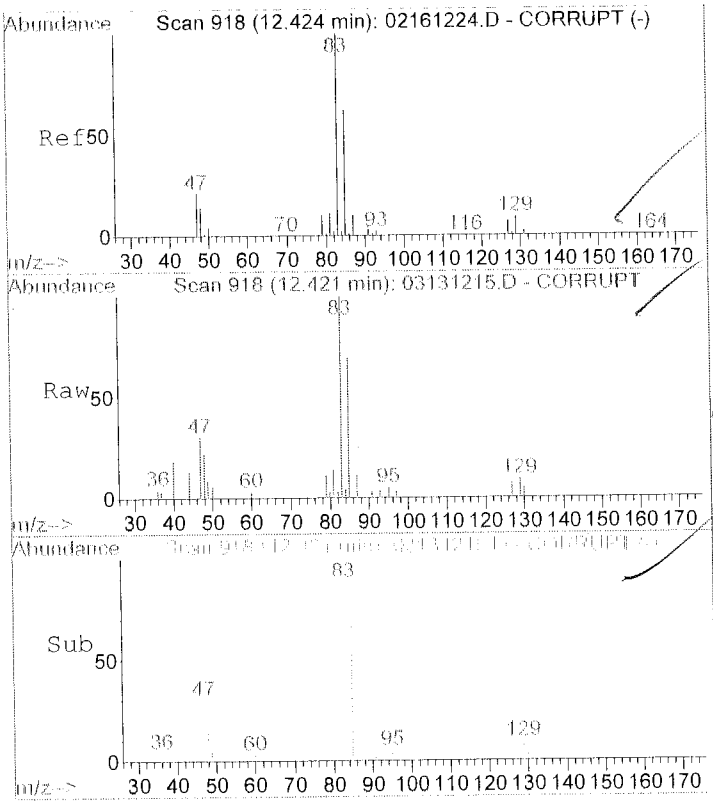
#43
Trichloroethene
Concen: 1.01 ug/L
RT: 12.36 min Scan# 911
Delta R.T. 0.01 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 95 Resp: 12542

Ion	Ratio	Lower	Upper
95	100		
130	88.5	74.2	111.4
132	87.8	71.2	106.8
97	63.3	56.5	84.7



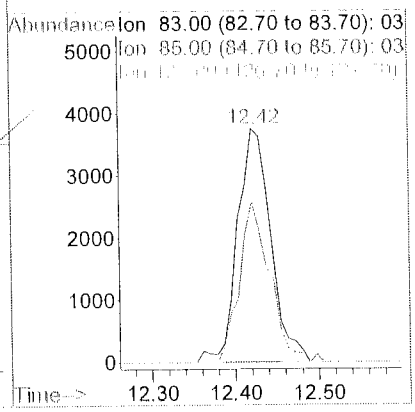
3/14/12



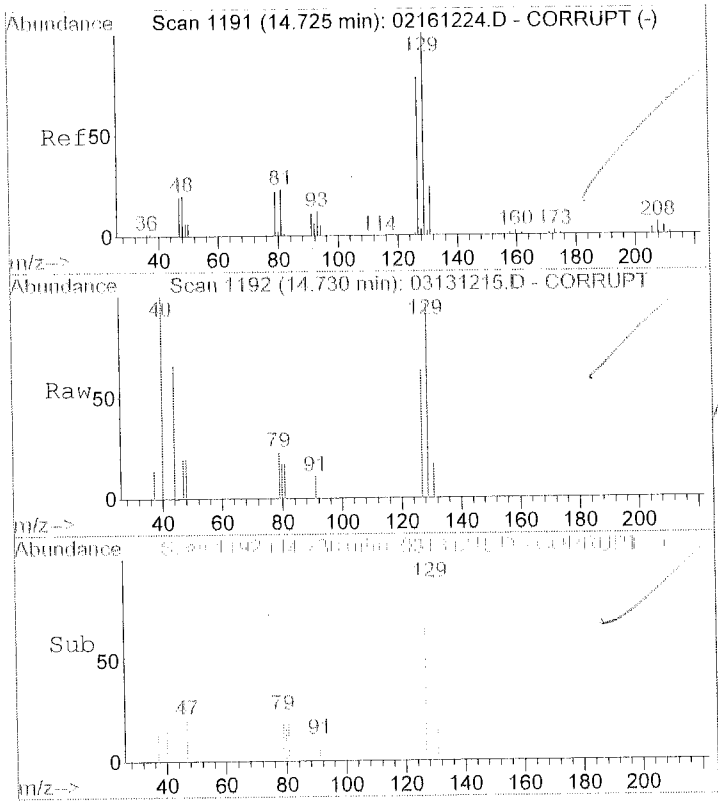
#44
Bromodichloromethane
Concen: 0.64 ug/L
RT: 12.42 min Scan# 918
Delta R.T. 0.00 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion: 83 Resp: 10336

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.4	77.0
127	8.4	6.6	9.8



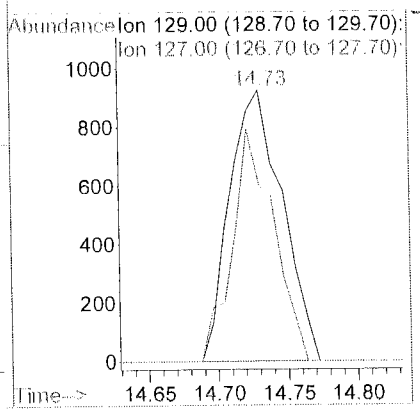
3/14/12

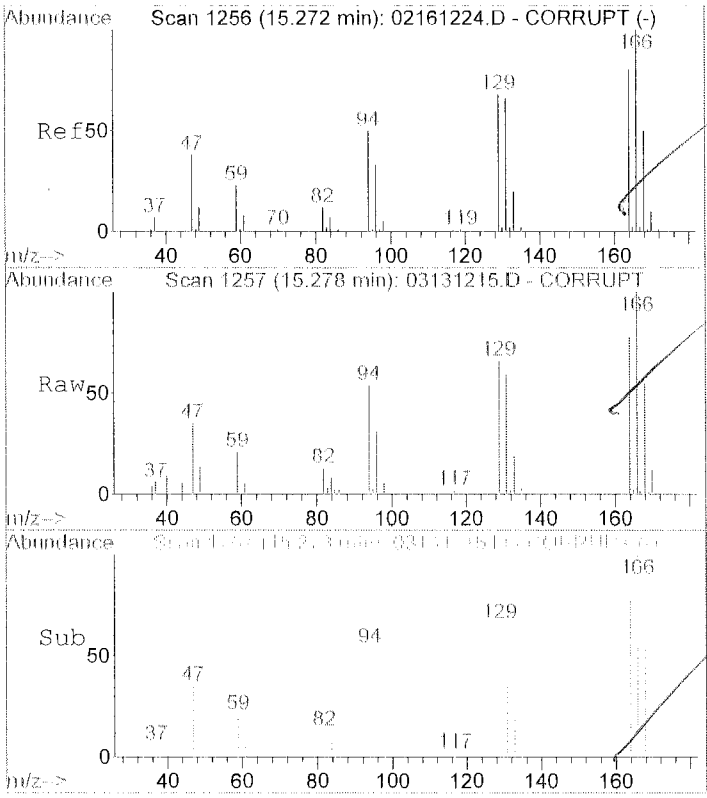


#55
Dibromochloromethane
Concen: 0.26 ug/L
RT: 14.73 min Scan# 1192
Delta R.T. 0.01 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion:129 Resp: 2412

Ion	Ratio	Lower	Upper
129	100		
127	67.6	62.5	93.7

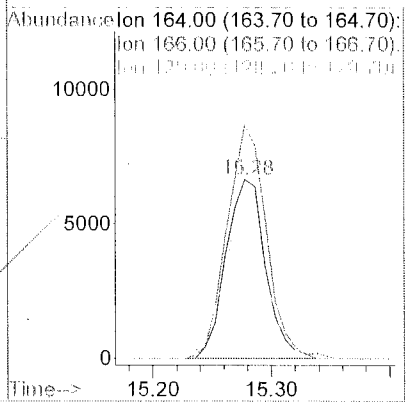




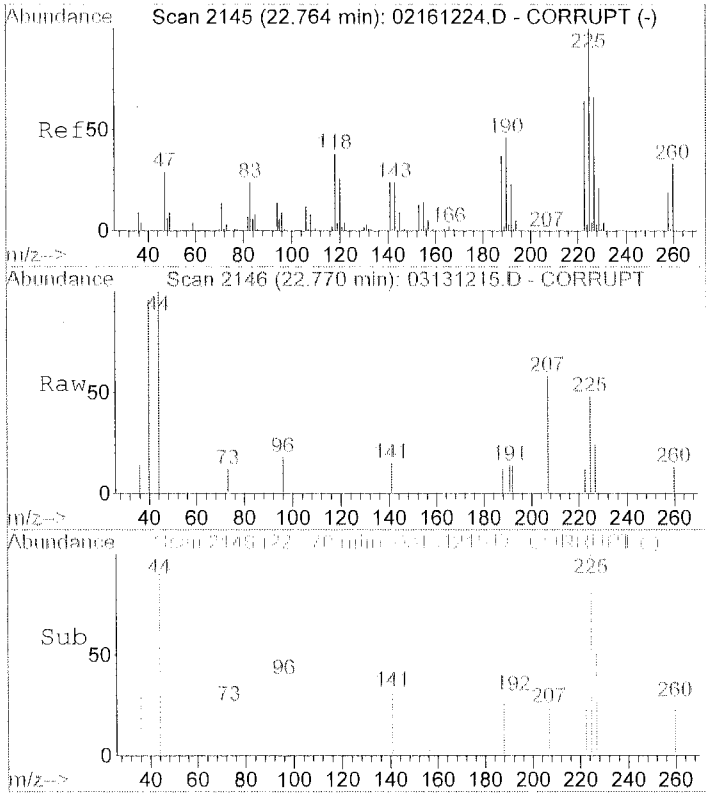
#57
Tetrachloroethene
Concen: 1.70 ug/L
RT: 15.28 min Scan# 1257
Delta R.T. 0.00 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion:164 Resp: 15327

Ion	Ratio	Lower	Upper
164	100		
166	130.1	103.3	154.9
129	90.4	72.7	109.1



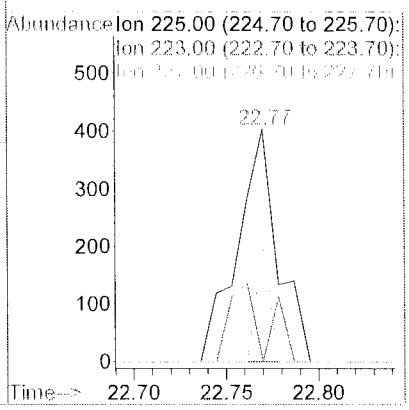
3/14/12



#87
Hexachlorobutadiene
Concen: 0.11 ug/L
RT: 22.77 min Scan# 2146
Delta R.T. 0.01 min
Lab File: 03131215.D
Acq: 13 Mar 2012 5:03 pm

Tgt Ion:225 Resp: 611

Ion	Ratio	Lower	Upper
225	100		
223	30.0	49.8	74.8#
227	16.9	50.7	76.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131216.D Vial: 15
Acq On : 13 Mar 2012 5:34 pm Operator: JH
Sample : PVC0524-07 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:24 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	78230	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	463127	25.00 ug/L	0.00
37) 1,4-Difluorobenzene	11.82	114	741103	25.00 ug/L	0.00
52) Chlorobenzene-d5	16.15	117	601620	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	265346	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	278207	24.93 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.72%	
50) Toluene-d8 (surr)	14.20	98	834071	25.14 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.56%	
64) 4-Bromofluorobenzene (surr	17.82	95	292635	23.75 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.00%	

Target Compounds					Qvalue
2) Ethanol	6.05	45	394	8.06 ug/L	89
13) Acetone	7.10	43	853	0.23 ug/L #	79
29) Chloroform	10.05	83	14430	0.59 ug/L	95
36) (TAME) tert-Amyl methyl et	11.81	73	9379	0.43 ug/L #	45
43) Trichloroethene	12.36	95	5236	0.42 ug/L	94
57) Tetrachloroethene	15.28	164	7086	0.80 ug/L	95

3/14/12

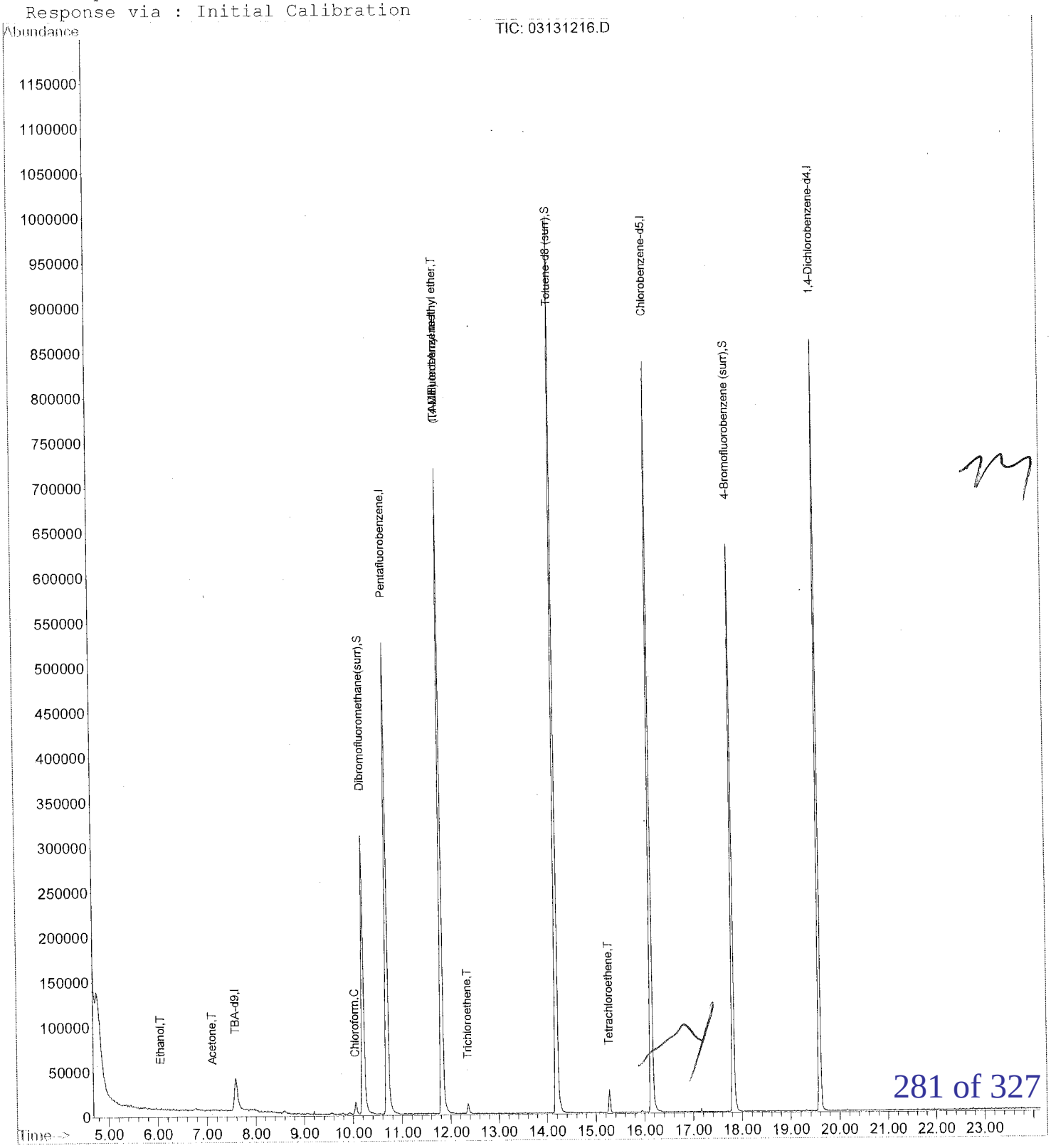
MH 4/15/12

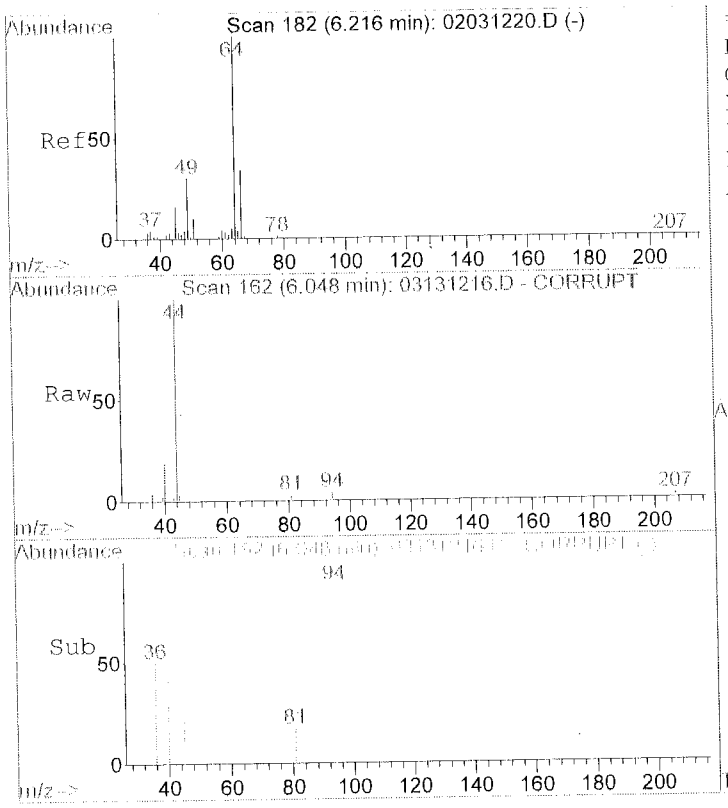
(#) = qualifier out of range (m) = manual integration
03131216.D 031212.M Wed Mar 14 11:24:52 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131216.D Vial: 15
Acq On : 13 Mar 2012 5:34 pm Operator: JH
Sample : PVC0524-07 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:24 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

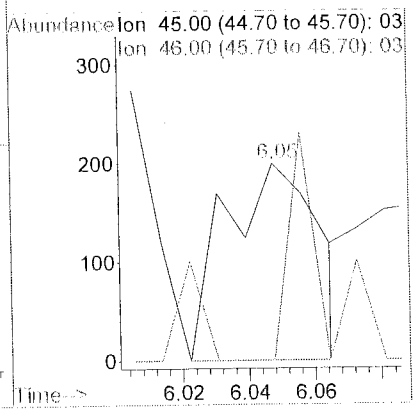


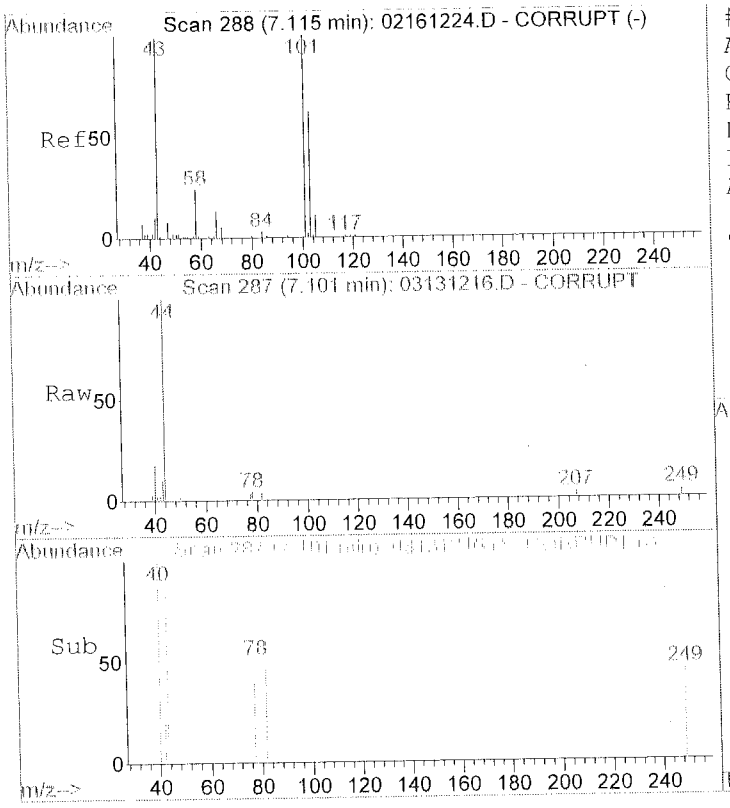


#2
Ethanol
Concen: 8.06 ug/L
RT: 6.05 min Scan# 162
Delta R.T. -0.14 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

Tgt Ion: 45 Resp: 394

Ion	Ratio	Lower	Upper
45	100		
46	42.4	39.8	59.8

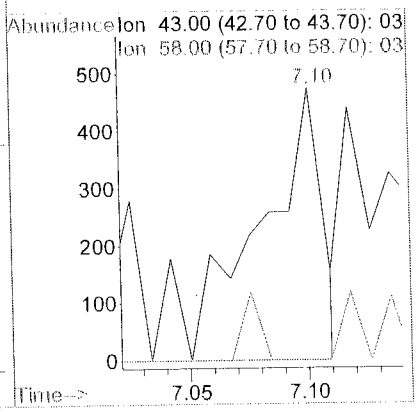


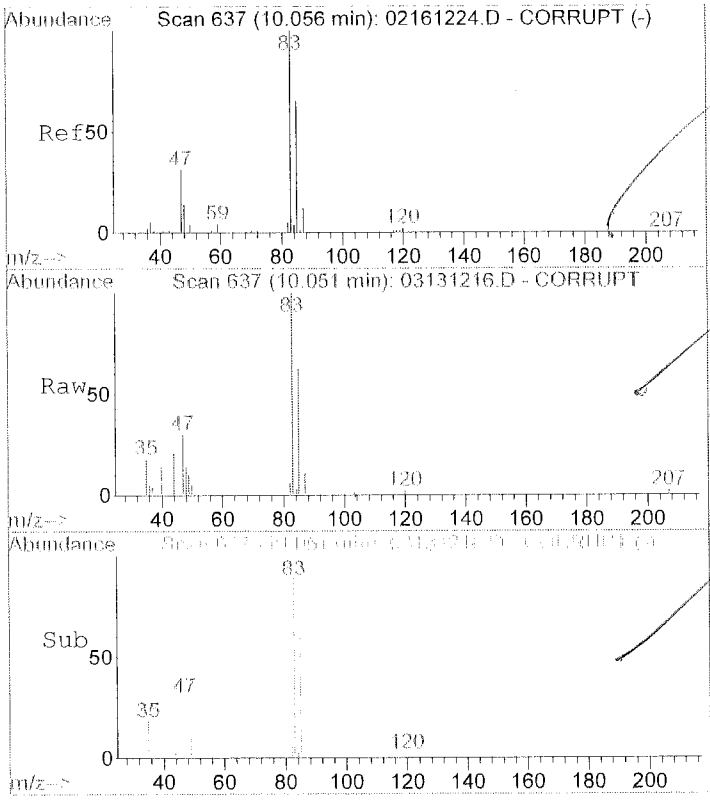


#13
Acetone
Concen: 0.23 ug/L
RT: 7.10 min Scan# 287
Delta R.T. -0.01 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

Tgt Ion: 43 Resp: 853

Ion	Ratio	Lower	Upper
43	100		
58	13.5	19.1	28.7#

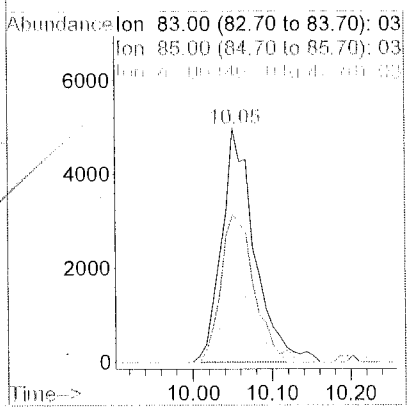


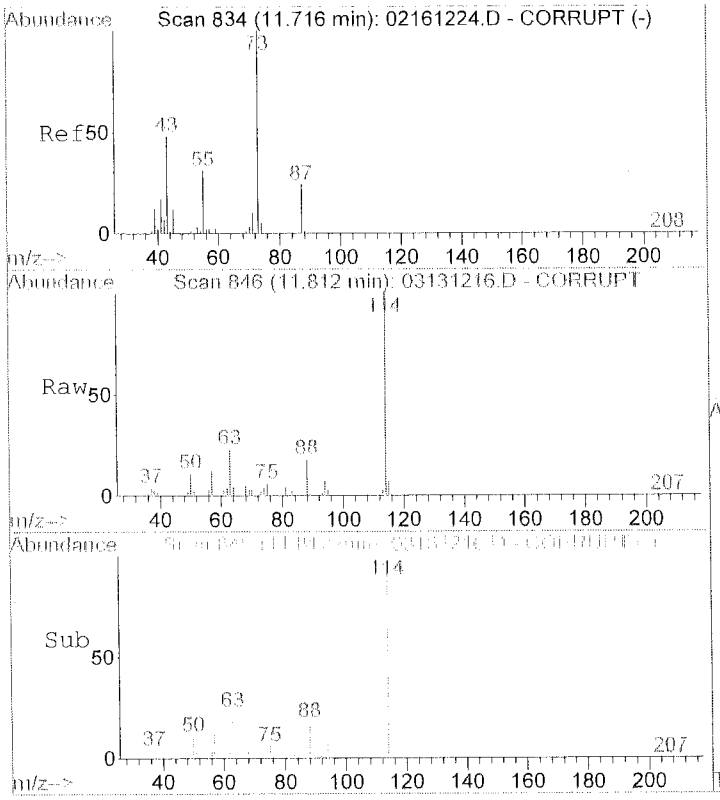


#29
Chloroform
Concen: 0.59 ug/L
RT: 10.05 min Scan# 637
Delta R.T. -0.00 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

Tgt Ion: 83 Resp: 14430

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.3	78.5
47	33.1	31.8	47.8



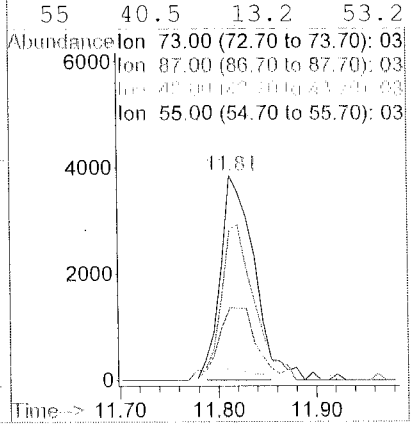


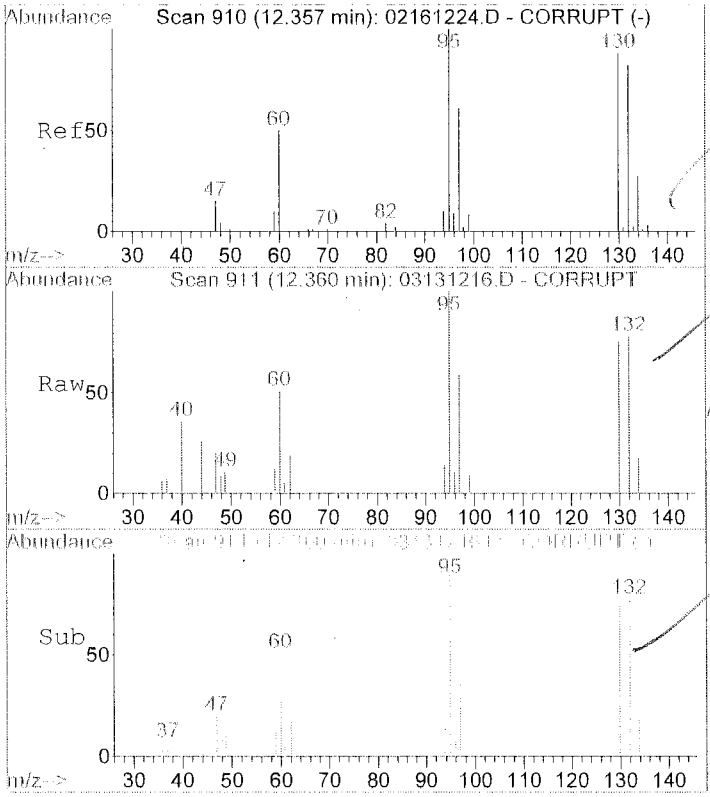
#36
(TAME) tert-Amyl methyl ether
Concen: 0.43 ug/L
RT: 11.81 min Scan# 846
Delta R.T. 0.10 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

3/14/12

Tgt Ion: 73 Resp: 9379

Ion	Ratio	Lower	Upper
73	100		
87	72.9	3.3	43.3#
43	5.7	27.7	67.7#
55	40.5	13.2	53.2

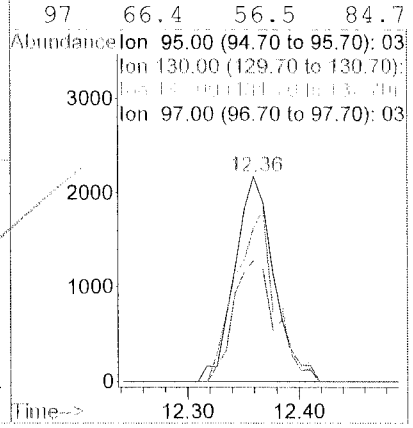




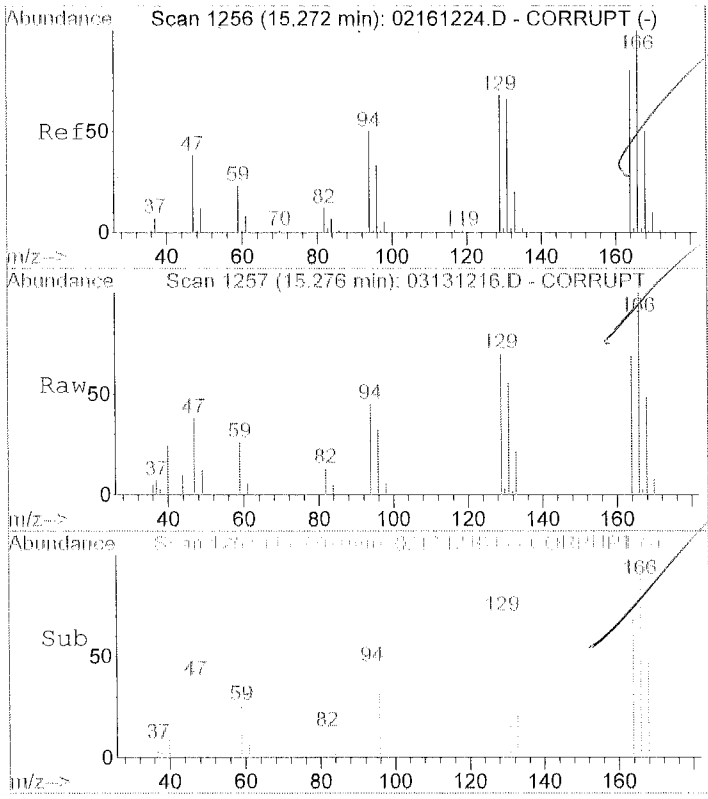
#43
Trichloroethene
Concen: 0.42 ug/L
RT: 12.36 min Scan# 911
Delta R.T. 0.01 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

Tgt Ion: 95 Resp: 5236

Ion	Ratio	Lower	Upper
95	100		
130	85.1	74.2	111.4
132	92.5	71.2	106.8
97	66.4	56.5	84.7



J

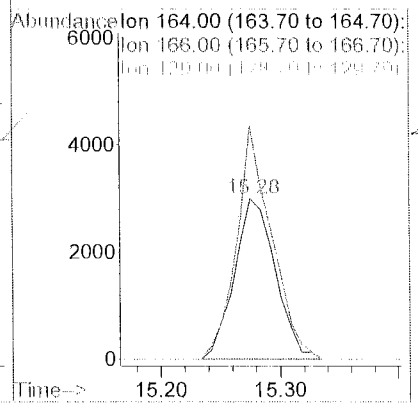


3/14/12

#57
Tetrachloroethene
Concen: 0.80 ug/L
RT: 15.28 min Scan# 1257
Delta R.T. -0.00 min
Lab File: 03131216.D
Acq: 13 Mar 2012 5:34 pm

Tgt Ion:164 Resp: 7086

Ion	Ratio	Lower	Upper
164	100		
166	124.7	103.3	154.9
129	97.4	72.7	109.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131217.D Vial: 16
Acq On : 13 Mar 2012 6:06 pm Operator: JH
Sample : PVC0524-08 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Quant Method : C:\HPCHEM\1...\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration
DataAcq Meth : 8260C

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.58	65	80395	200.00 ug/L	0.00
4) Pentafluorobenzene	10.70	168	461694	25.00 ug/L	0.01
37) 1,4-Difluorobenzene	11.82	114	748667	25.00 ug/L	0.01
52) Chlorobenzene-d5	16.15	117	620113	25.00 ug/L	0.00
65) 1,4-Dichlorobenzene-d4	19.59	152	269039	25.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(surr)	10.21	113	283883	25.51 ug/L	0.01
Spiked Amount 25.000			Recovery	= 102.04%	
50) Toluene-d8 (surr)	14.20	98	830356	24.77 ug/L	0.01
Spiked Amount 25.000			Recovery	= 99.08%	
64) 4-Bromofluorobenzene (surr	17.82	95	297558	23.43 ug/L	0.00
Spiked Amount 25.000			Recovery	= 93.72%	

Target Compounds					Qvalue
2) Ethanol	6.27	45	170	3.38 ug/L	99
3) tert-Butanol (TBA)	7.70	59	106	0.15 ug/L #	80
13) Acetone	7.11	43	7154	1.90 ug/L #	81
17) Methylene Chloride	7.88	84	7364	0.45 ug/L	99
25) 2-Butanone (MEK)	9.59	72	98	0.12 ug/L #	1
29) Chloroform	10.05	83	4140	0.17 ug/L #	84 — J
36) (TAME) tert-Amyl methyl et	11.82	73	8996	0.41 ug/L #	41
54) 2-Hexanone	14.54	43	2058	0.41 ug/L #	71
62) Styrene	17.16	104	129	0.11 ug/L #	56

NT/LM
3/14/12

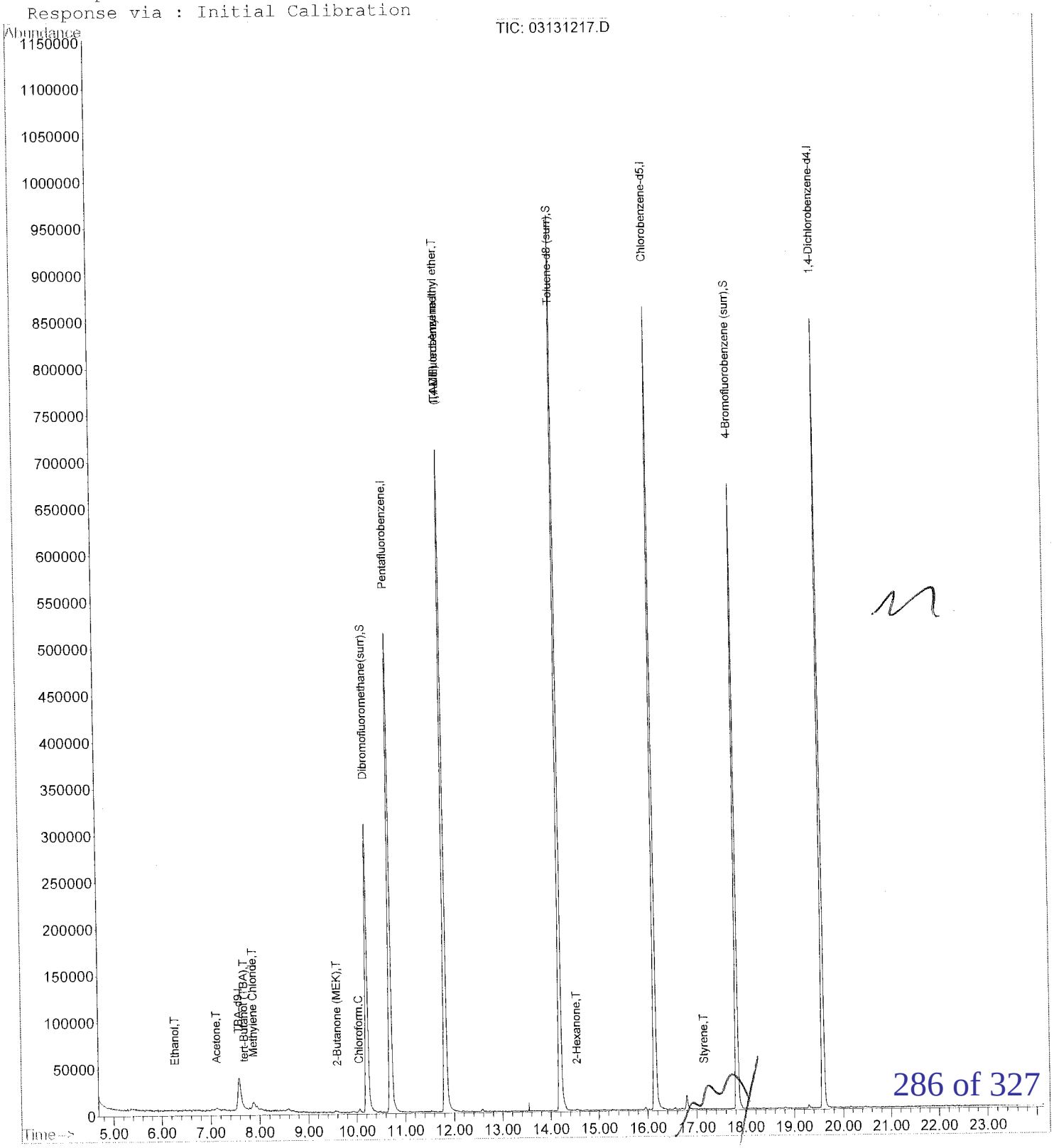
M 3/15/12

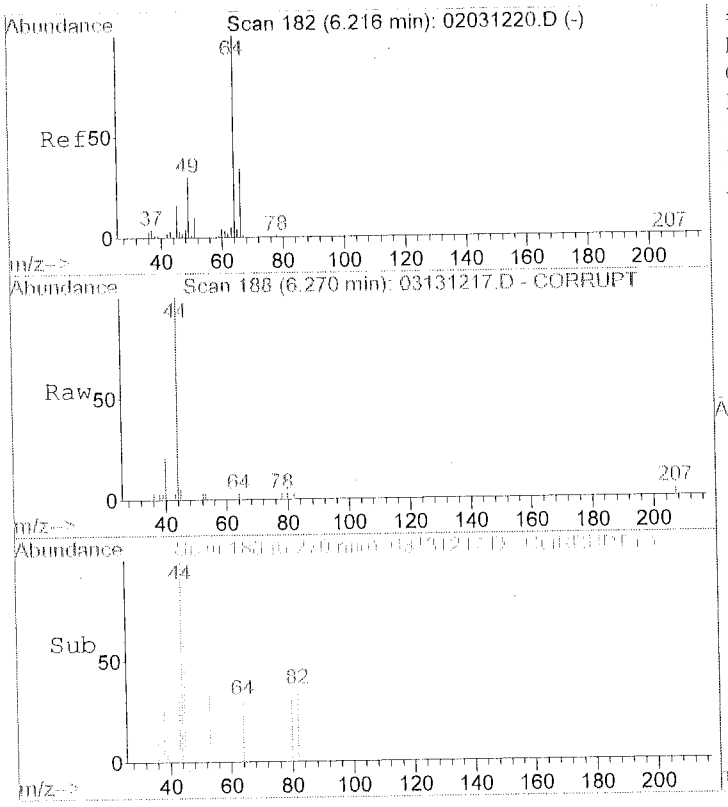
(#) = qualifier out of range (m) = manual integration
03131217.D 031212.M Wed Mar 14 11:25:15 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS9\DATA\031312\03131217.D Vial: 16
Acq On : 13 Mar 2012 6:06 pm Operator: JH
Sample : PVC0524-08 Inst : GCMS9
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 14 11:25 2012 Quant Results File: 031212.RES

Method : C:\HPCHEM\1\GCMS9\METHODS\031212.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Tue Mar 13 09:29:25 2012
Response via : Initial Calibration

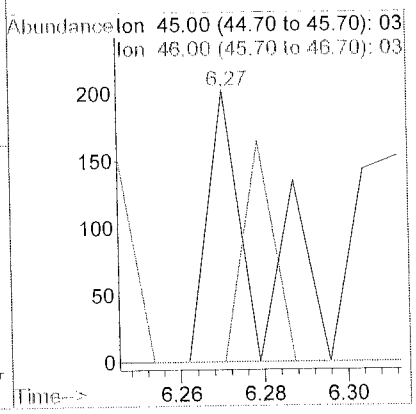


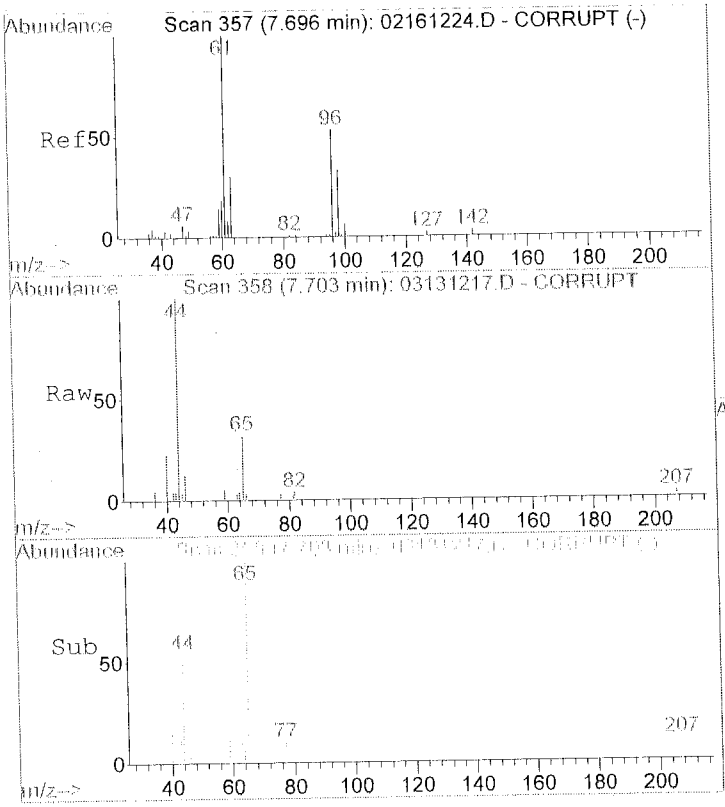


#2
Ethanol
Concen: 3.38 ug/L
RT: 6.27 min Scan# 188
Delta R.T. 0.09 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 45 Resp: 170

Ion	Ratio	Lower	Upper
45	100		
46	48.8	39.8	59.8

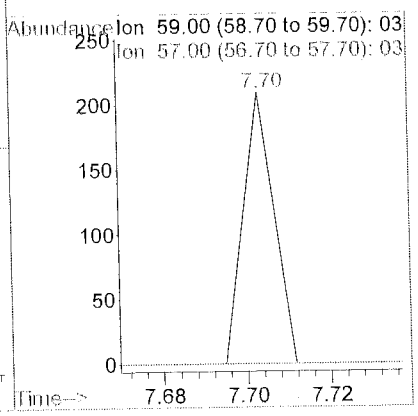


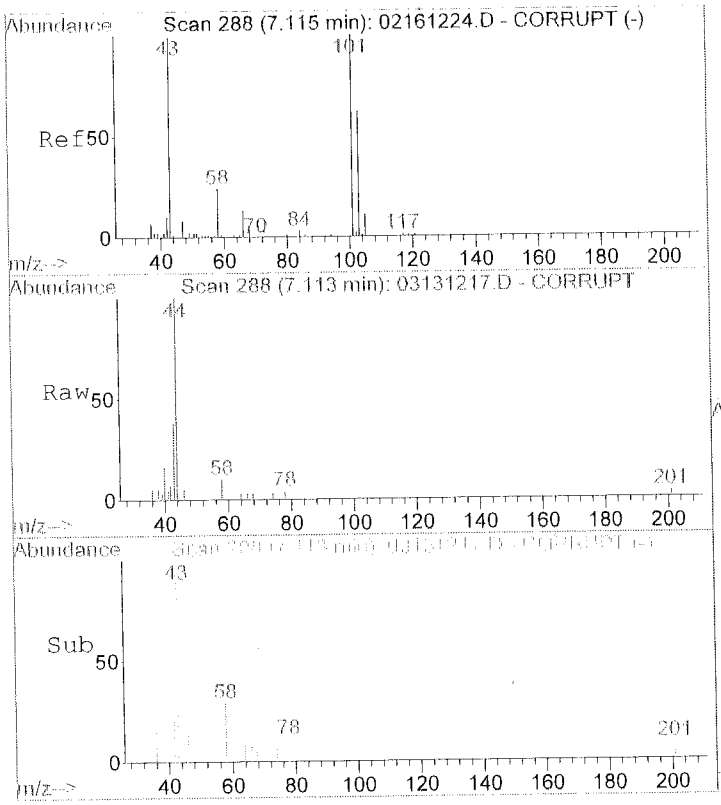


#3
tert-Butanol (TBA)
Concen: 0.15 ug/L
RT: 7.70 min Scan# 358
Delta R.T. 0.02 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 59 Resp: 106

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.4	8.2#

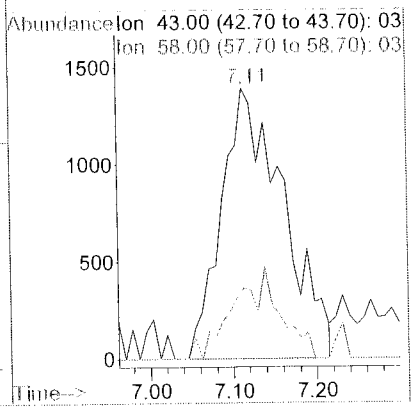


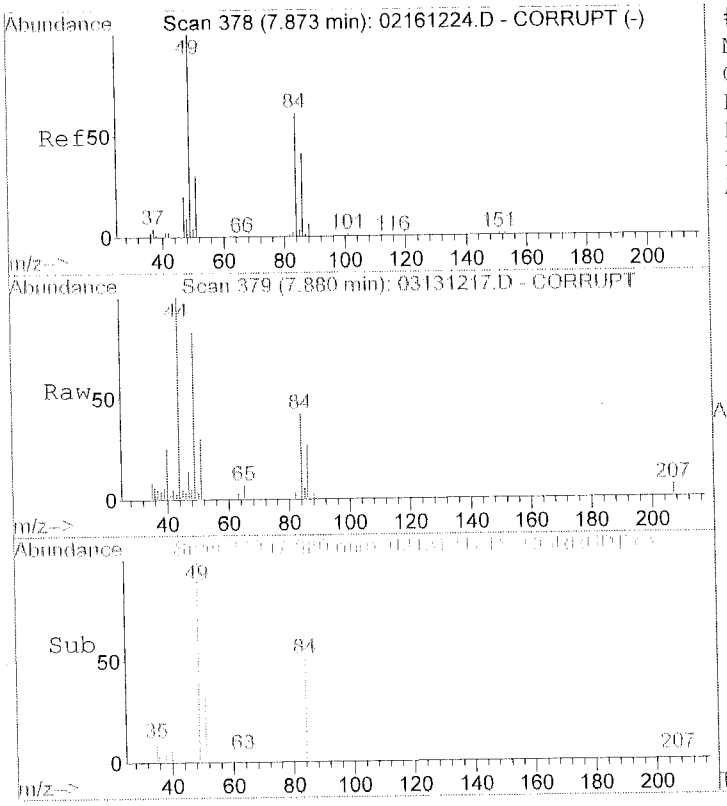


#13
Acetone
Concen: 1.90 ug/L
RT: 7.11 min Scan# 288
Delta R.T. 0.00 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 43 Resp: 7154

Ion	Ratio	Lower	Upper
43	100		
58	14.7	19.1	28.7#

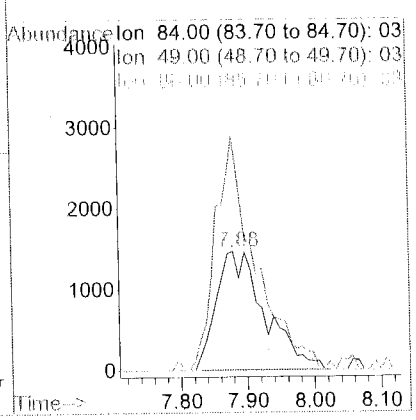


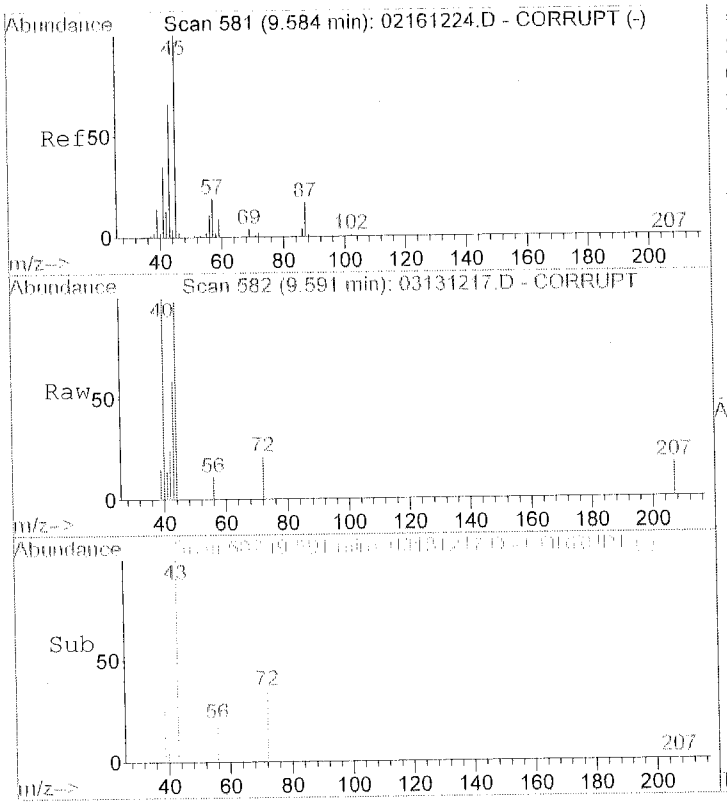


#17
Methylene Chloride
Concen: 0.45 ug/L
RT: 7.88 min Scan# 379
Delta R.T. 0.01 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 84 Resp: 7364

Ion	Ratio	Lower	Upper
84	100		
49	161.1	128.6	193.0
86	61.2	51.2	76.8

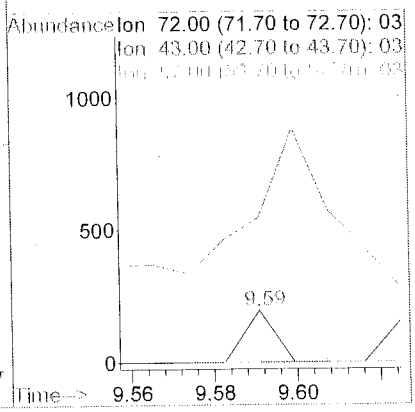


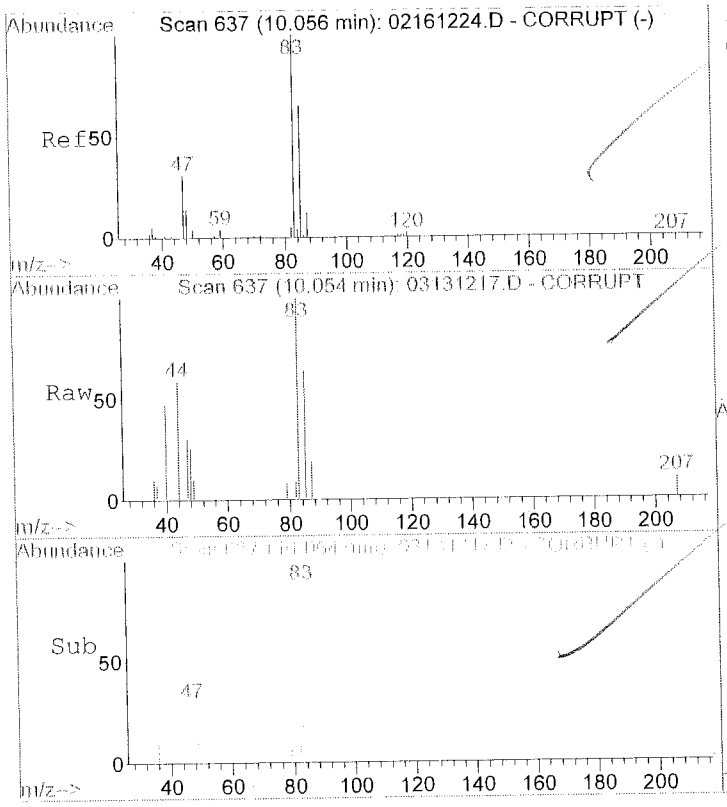


#25
2-Butanone (MEK)
Concen: 0.12 ug/L
RT: 9.59 min Scan# 582
Delta R.T. 0.00 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 72 Resp: 98

Ion	Ratio	Lower	Upper
72	100		
43	3075.5	4234.6	6352.0#
57	78.6	0.0	0.0#

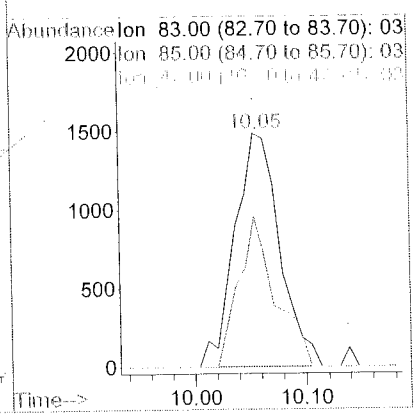




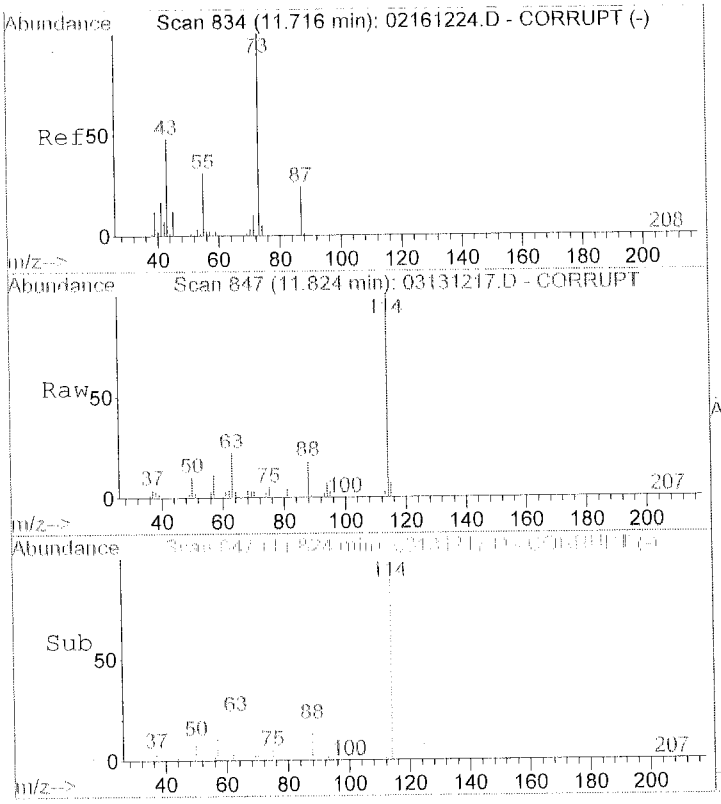
#29
Chloroform
Concen: 0.17 ug/L
RT: 10.05 min Scan# 637
Delta R.T. 0.00 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 83 Resp: 4140

Ion	Ratio	Lower	Upper
83	100		
85	52.9	52.3	78.5
47	29.0	31.8	47.8#



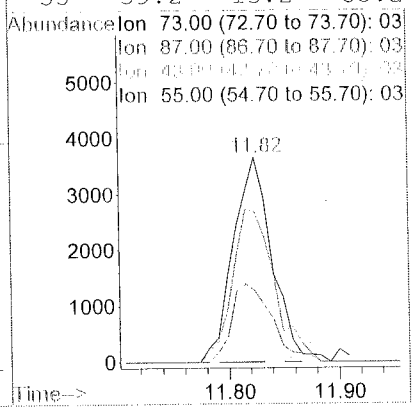
M
3/14/12
M
J

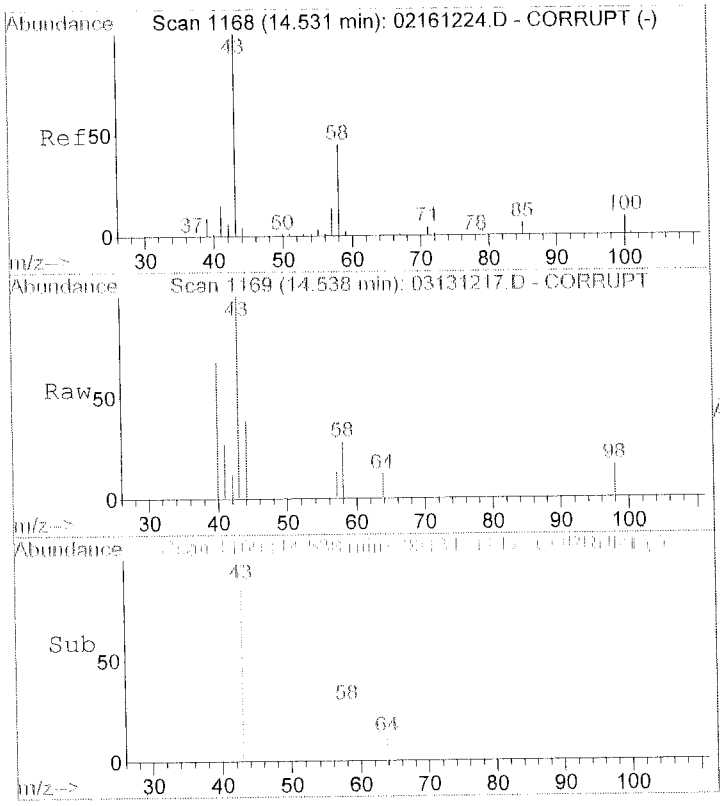


#36
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 11.82 min Scan# 847
Delta R.T. 0.11 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 73 Resp: 8996

Ion	Ratio	Lower	Upper
73	100		
87	80.3	3.3	43.3#
43	4.5	27.7	67.7#
55	39.2	13.2	53.2

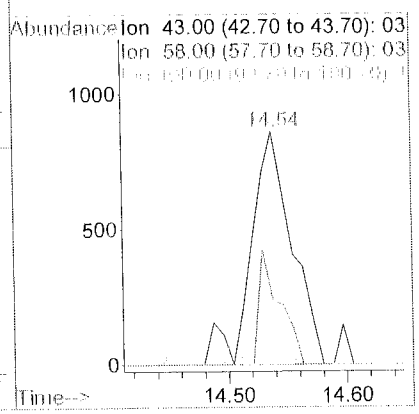


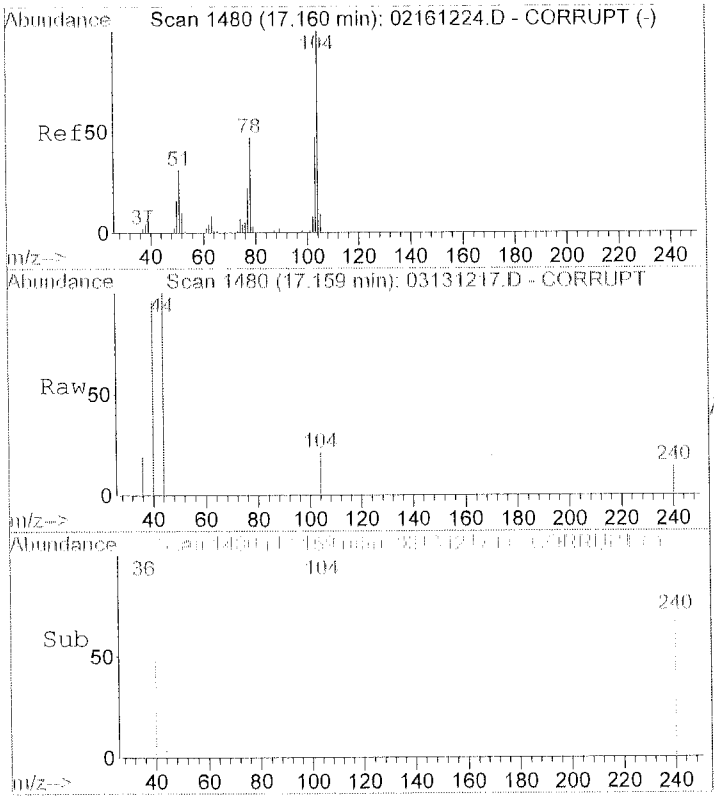


#54
2-Hexanone
Concen: 0.41 ug/L
RT: 14.54 min Scan# 1169
Delta R.T. 0.01 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion: 43 Resp: 2058

Ion	Ratio	Lower	Upper
43	100		
58	25.1	35.6	53.4#
100	0.0	6.7	10.1#

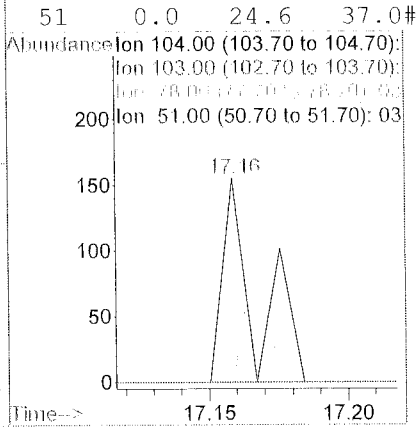




#62
Styrene
Concen: 0.11 ug/L
RT: 17.16 min Scan# 1480
Delta R.T. -0.00 min
Lab File: 03131217.D
Acq: 13 Mar 2012 6:06 pm

Tgt Ion:104 Resp: 129

Ion	Ratio	Lower	Upper
104	100		
103	0.0	37.2	55.8#
78	39.5	35.8	53.8
51	0.0	24.6	37.0#



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV01459

Description:	8260 50ppm SS	Expires:	03/19/12
Standard Type:	Analyte Spike	Prepared:	03/07/12
Solvent:	MeOH/114965	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:58 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

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2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU04379	SS 1,3-Butadiene (2000ug/mL)	01/29/12	Marbella Mazza	07/29/12	01/29/12 09:30 by MNM	0.05
PU06182	SS Custom 8260 Mix	02/03/12	Marbella Mazza	08/02/12	02/03/12 04:30 by MNM	0.05
PU07321	SS 54 Compounds (O2SI)	02/22/12	Jing Hu	08/22/12	03/07/12 05:57 by MNM	0.05
PU07965	8260 Gases O2SI	03/05/12	Kaycee Halla	03/19/12	03/05/12 15:37 by MS	0.05
PU07970	2-Chloroethyl vinyl ether	02/15/12	Jing Hu	08/15/12	02/15/12 12:34 by J H	0.05
PU07976	O2SI Additions	02/07/12	Marbella Mazza	03/28/12	02/07/12 06:02 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Description:	8260 50ppm SS	Expires:	03/19/12
Standard Type:	Analyte Spike	Prepared:	03/07/12
Solvent:	MeOH/114965	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:58 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01459

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU04379	SS 1,3-Butadiene (2000ug/mL)	01/29/12	Marbella Mazza	07/29/12	01/29/12 09:30 by MNM	0.05
PU06182	SS Custom 8260 Mix	02/03/12	Marbella Mazza	08/02/12	02/03/12 04:30 by MNM	0.05
PU07321	SS 54 Compounds (O2SI)	02/22/12	Jing Hu	08/22/12	03/07/12 05:57 by MNM	0.05
PU07965	8260 Gases O2SI	03/05/12	Kaycee Halla	03/19/12	03/05/12 15:37 by MS	0.05
PU07970	2-Chloroethyl vinyl ether	02/15/12	Jing Hu	08/15/12	02/15/12 12:34 by J H	0.05
PU07976	O2SI Additions	02/07/12	Marbella Mazza	03/28/12	02/07/12 06:02 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06182

Description:	SS Custom 8260 Mix	Expires:	08/02/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 04:30 by MNM

O2SI Catalog # 122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07321

Description:	SS 54 Compounds (O2SI)	Expires:	08/22/12
Standard Type:	Other	Prepared:	02/22/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/07/12 05:57 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07321

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07965

Description:	8260 Gases O2SI	Expires:	03/19/12
Standard Type:	Other	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 15:37 by MS

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07970

Description:	2-Chloroethyl vinyl ether	Expires:	08/15/12
Standard Type:	Other	Prepared:	02/15/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/15/12 12:34 by J H

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07976

Description:	O2SI Additions	Expires:	03/28/12
Standard Type:	Other	Prepared:	02/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/07/12 06:02 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01311

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	03/29/12
Standard Type:	Analyte Spike	Prepared:	02/29/12
Solvent:	MEOH/113540	Prepared By:	Jing Hu
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/29/12 15:15 by J H

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05455	SS Ethanol 20000ppm	01/24/12	Marbella Mazza	07/24/12	01/24/12 13:21 by MNM	0.05
PU06454	O2SI tert-butyl alcohol	12/02/11	Kaycee Halla	06/02/12	01/17/12 12:45 by MS	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05455

Description:	SS Ethanol 20000ppm	Expires:	07/24/12
Standard Type:	Other	Prepared:	01/24/12
Solvent:	MEOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/24/12 13:21 by MNM

Description: Ethanol, 20000ppm
CAT# 020202-02-SS

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06454

Description:	O2SI tert-butyl alcohol	Expires:	06/02/12
Standard Type:	Analyte Spike	Prepared:	12/02/11
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/17/12 12:45 by MS

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00965

Description:	25 ppm 4-BFB	Expires:	03/14/12
Standard Type:	MS Tune Soluti	Prepared:	02/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/14/12 06:37 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03145	4-Bromofluorobenzene	02/14/12	Marbella Mazza	08/14/12	02/14/12 06:30 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03145

Description:	4-Bromofluorobenzene	Expires:	08/14/12
Standard Type:	Other	Prepared:	02/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/14/12 06:30 by MNM

Catalog # STS-110N

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01506

Description:	8260 50 ppm CCV (No Surr.)	Expires:	03/12/12
Standard Type:	Analyte Spike	Prepared:	03/08/12
Solvent:	MeOH/114965	Prepared By:	Jing Hu
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 13:07 by J H

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
Chloroform	67-66-3	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01506

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
Chloromethane	74-87-3	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
Chloroethane	75-00-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
MTBE	1634-04-4	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm
Dibromochloromethane	124-48-1	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01506

Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Hexane	110-54-3	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
Vinyl chloride	75-01-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03589	PS Custom 8260 Mix	02/07/12	Kaycee Halla	08/07/12	02/09/12 13:16 by MNM	0.05
PU03860	2-Chloroethyl vinyl ether	02/03/12	Kaycee Halla	08/02/12	02/03/12 12:50 by KH	0.02
PU05153	Restek Additions (w/o V.A.)	01/04/12	Kaycee Halla	07/04/12	01/04/12 07:40 by KH	0.05
PU05932	PS 54 Compounds (Absolute)	02/03/12	Kaycee Halla	08/03/12	02/03/12 12:51 by KH	0.05
PU06511	Crescent Vinyl acetate	01/04/12	Kaycee Halla	07/04/12	01/04/12 07:41 by KH	0.05
PU07090	PS 1,3-Butadiene	01/17/12	Kaycee Halla	07/17/12	01/17/12 07:13 by MS	0.05
PV01260	Crescent Gases	03/05/12	Marbella Mazza	03/12/12	03/05/12 06:21 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03589

Description:	PS Custom 8260 Mix	Expires:	08/07/12
Standard Type:	Other	Prepared:	02/07/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/09/12 13:16 by MNM

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03860

Description:	2-Chloroethyl vinyl ether	Expires:	08/02/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 12:50 by KH

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05153

Description:	Restek Additions (w/o V.A.)	Expires:	07/04/12
Standard Type:	Other	Prepared:	01/04/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/04/12 07:40 by KH

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05932

Description:	PS 54 Compounds (Absolute)	Expires:	08/03/12
Standard Type:	Other	Prepared:	02/03/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/03/12 12:51 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05932

trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
Trichloroethene	79-01-6	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06511

Description:	Crescent Vinyl acetate	Expires:	07/04/12
Standard Type:	Other	Prepared:	01/04/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/04/12 07:41 by KH

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07090

Description:	PS 1,3-Butadiene	Expires:	07/17/12
Standard Type:	Other	Prepared:	01/17/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/17/12 07:13 by MS

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01260

Description:	Crescent Gases	Expires:	03/12/12
Standard Type:	Other	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 06:21 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01212

Description:	500ppm Ethanol/ 250ppmTBA	Expires:	03/24/12
Standard Type:	Calibration Stan	Prepared:	02/24/12
Solvent:	Methanol/114965	Prepared By:	Melissa Spencer
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/24/12 06:24 by MS

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03901	Ethanol 20000ppm (Absolute)	12/21/11	Melissa Spencer	06/21/12	12/21/11 07:08 by MS	0.05
PU07318	Crescent TBA	02/09/12	Marbella Mazza	08/09/12	02/09/12 05:51 by MNM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03901

Description:	Ethanol 20000ppm (Absolute)	Expires:	06/21/12
Standard Type:	Other	Prepared:	12/21/11
Solvent:	MEOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	12/21/11 07:08 by MS

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07318

Description:	Crescent TBA	Expires:	08/09/12
Standard Type:	Other	Prepared:	02/09/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/09/12 05:51 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01488

Description:	8260/624 IS/Surrogate Mix (Archon)	Expires:	04/08/12
Standard Type:	Surrogate Spike	Prepared:	03/08/12
Solvent:	MeOH/114965	Prepared By:	Jing Hu
Final Volume (mls):	5	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 09:20 by J H

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	250	ug/mL
TBA-d9		2000	ug/mL
Pentafluorobenzene	363-72-4	250	ug/mL
Dibromofluoromethane	1868-53-7	250	ug/mL
Chlorobenzene-d5	3114-55-4	250	ug/mL
4-Bromofluorobenzene	460-00-4	250	ug/mL
1,4-Difluorobenzene	540-36-3	250	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	250	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU06978	Tert-Butanol-d9, 40000 ppm	02/27/12	Marbella Mazza	08/27/12	02/27/12 05:12 by MNM	0.25
PV01282	8260 Surrogates	02/28/12	Jing Hu	09/08/12	03/08/12 09:15 by J H	0.625
PV01286	8260 Internal standard	03/05/12	Marbella Mazza	09/05/12	03/05/12 09:48 by MNM	0.625

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU06978

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	08/27/12
Standard Type:	Other	Prepared:	02/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	02/27/12 05:12 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01282

Description:	8260 Surrogates	Expires:	09/08/12
Standard Type:	Other	Prepared:	02/28/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/08/12 09:15 by J H

Part # STM-330N

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01286

Description:	8260 Internal standard	Expires:	09/05/12
Standard Type:	Internal Standar	Prepared:	03/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	03/05/12 09:48 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVI0512

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, and 505

Sampled: 09/10/12
Received: 09/10/12
Issued: 09/19/12 11:41

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVI0512-01	Trip Blank	Water
PVI0512-02	MW2S-091012	Water
PVI0512-03	MW2M-091012	Water
PVI0512-04	MW2M2-091012	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

PVI0512

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Site Contact: Laura Menken	Date: 9/10/12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	1 of 1 COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No.
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) _____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
TRIP BLANK -01	—				1		X		X	
MW2S-091012 -02	9/10/12	9:30		W	3		X		X	
MW2M-091012 -03		10:55		W	3		X		X	
MW2M2-091012 -04		13:05		W	3		X		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: *Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and ndard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, ve.Allard@CH2M.com.*

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	9/10/12 14:25			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company:	Date/Time: 9-10-12 1425

1.4°C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-01 (Trip Blank - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0394	7.3	10	ND	1	09/12/12	09/12/12	E8
Benzene	EPA 8260B	12I0394	0.12	0.50	ND	1	09/12/12	09/12/12	E8
Bromobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/12/12	E8
Bromochloromethane	EPA 8260B	12I0394	0.27	0.50	ND	1	09/12/12	09/12/12	E8
Bromodichloromethane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/12/12	E8
Bromoform	EPA 8260B	12I0394	0.37	1.0	ND	1	09/12/12	09/12/12	E8
Bromomethane	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/12/12	E8
2-Butanone (MEK)	EPA 8260B	12I0394	2.2	5.0	ND	1	09/12/12	09/12/12	E8
tert-Butylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/12/12	E8
n-Butylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/12/12	E8
sec-Butylbenzene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/12/12	E8
Carbon disulfide	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/12/12	E8
Carbon tetrachloride	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/12/12	E8
Chlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/12/12	E8
Chloroethane	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/12/12	E8
Chloroform	EPA 8260B	12I0394	0.13	0.50	ND	1	09/12/12	09/12/12	E8
Chloromethane	EPA 8260B	12I0394	0.21	1.0	ND	1	09/12/12	09/12/12	E8
4-Chlorotoluene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/12/12	E8
2-Chlorotoluene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/12/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0394	0.82	5.0	ND	1	09/12/12	09/12/12	E8
Dibromochloromethane	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/12/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0394	0.30	0.50	ND	1	09/12/12	09/12/12	E8
Dibromomethane	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/12/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/12/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/12/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/12/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/12/12	E8
1,1-Dichloroethane	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/12/12	E8
1,2-Dichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/12/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/12/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0394	0.29	0.50	ND	1	09/12/12	09/12/12	E8
1,1-Dichloroethene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/12/12	E8
1,2-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/12/12	E8
2,2-Dichloropropane	EPA 8260B	12I0394	0.18	1.0	ND	1	09/12/12	09/12/12	E8
1,3-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/12/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/12/12	E8
1,1-Dichloropropene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/12/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0394	0.47	0.50	ND	1	09/12/12	09/12/12	E8
Ethylbenzene	EPA 8260B	12I0394	0.32	0.50	ND	1	09/12/12	09/12/12	E8
Hexachlorobutadiene	EPA 8260B	12I0394	0.28	1.0	ND	1	09/12/12	09/12/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-01 (Trip Blank - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0394	1.5	5.0	ND	1	09/12/12	09/12/12	E8
Iodomethane	EPA 8260B	12I0394	0.21	2.5	ND	1	09/12/12	09/12/12	E8
Isopropylbenzene	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/12/12	E8
p-Isopropyltoluene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/12/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/12/12	E8
Methylene Chloride	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/12/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0394	1.3	2.5	ND	1	09/12/12	09/12/12	E8
Naphthalene	EPA 8260B	12I0394	0.51	2.5	ND	1	09/12/12	09/12/12	E8
n-Propylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/12/12	E8
Styrene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/12/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0394	0.35	0.50	ND	1	09/12/12	09/12/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0394	0.33	0.50	ND	1	09/12/12	09/12/12	E8
Tetrachloroethene	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/12/12	E8
Toluene	EPA 8260B	12I0394	0.28	0.50	ND	1	09/12/12	09/12/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0394	0.32	1.0	ND	1	09/12/12	09/12/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0394	0.45	1.0	ND	1	09/12/12	09/12/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/12/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/12/12	E8
Trichloroethene	EPA 8260B	12I0394	0.24	0.50	ND	1	09/12/12	09/12/12	E8
Trichlorofluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/12/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0394	0.78	2.0	ND	1	09/12/12	09/12/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/12/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/12/12	E8
Vinyl Acetate	EPA 8260B	12I0394	0.81	2.0	ND	1	09/12/12	09/12/12	E8
Vinyl chloride	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/12/12	E8
Xylenes, Total	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/12/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*98 %*				
Surrogate: Dibromofluoromethane (70-130%)					*106 %*				
Surrogate: Toluene-d8 (70-130%)					*102 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-02 (MW2S-091012 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0394	7.3	10	ND	1	09/12/12	09/13/12	E8
Benzene	EPA 8260B	12I0394	0.12	0.50	ND	1	09/12/12	09/13/12	E8
Bromobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Bromochloromethane	EPA 8260B	12I0394	0.27	0.50	ND	1	09/12/12	09/13/12	E8
Bromodichloromethane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Bromoform	EPA 8260B	12I0394	0.37	1.0	ND	1	09/12/12	09/13/12	E8
Bromomethane	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
2-Butanone (MEK)	EPA 8260B	12I0394	2.2	5.0	ND	1	09/12/12	09/13/12	E8
tert-Butylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
n-Butylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
sec-Butylbenzene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Carbon disulfide	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Carbon tetrachloride	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
Chlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
Chloroethane	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
Chloroform	EPA 8260B	12I0394	0.13	0.50	**0.36**	1	09/12/12	09/13/12	E4
Chloromethane	EPA 8260B	12I0394	0.21	1.0	ND	1	09/12/12	09/13/12	E8
4-Chlorotoluene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
2-Chlorotoluene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0394	0.82	5.0	ND	1	09/12/12	09/13/12	E8
Dibromochloromethane	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0394	0.30	0.50	ND	1	09/12/12	09/13/12	E8
Dibromomethane	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethane	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0394	0.29	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
2,2-Dichloropropane	EPA 8260B	12I0394	0.18	1.0	ND	1	09/12/12	09/13/12	E8
1,3-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloropropene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0394	0.47	0.50	ND	1	09/12/12	09/13/12	E8
Ethylbenzene	EPA 8260B	12I0394	0.32	0.50	ND	1	09/12/12	09/13/12	E8
Hexachlorobutadiene	EPA 8260B	12I0394	0.28	1.0	ND	1	09/12/12	09/13/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-02 (MW2S-091012 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0394	1.5	5.0	ND	1	09/12/12	09/13/12	E8
Iodomethane	EPA 8260B	12I0394	0.21	2.5	ND	1	09/12/12	09/13/12	E8
Isopropylbenzene	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
p-Isopropyltoluene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
Methylene Chloride	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0394	1.3	2.5	ND	1	09/12/12	09/13/12	E8
Naphthalene	EPA 8260B	12I0394	0.51	2.5	ND	1	09/12/12	09/13/12	E8
n-Propylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Styrene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0394	0.35	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0394	0.33	0.50	ND	1	09/12/12	09/13/12	E8
Tetrachloroethene	EPA 8260B	12I0394	0.18	0.50	**0.69**	1	09/12/12	09/13/12	
Toluene	EPA 8260B	12I0394	0.28	0.50	ND	1	09/12/12	09/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0394	0.32	1.0	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0394	0.45	1.0	ND	1	09/12/12	09/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
Trichloroethene	EPA 8260B	12I0394	0.24	0.50	**0.39**	1	09/12/12	09/13/12	E4
Trichlorofluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0394	0.78	2.0	ND	1	09/12/12	09/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Vinyl Acetate	EPA 8260B	12I0394	0.81	2.0	ND	1	09/12/12	09/13/12	E8
Vinyl chloride	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/13/12	E8
Xylenes, Total	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*105 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-03 (MW2M-091012 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0394	7.3	10	ND	1	09/12/12	09/13/12	E8
Benzene	EPA 8260B	12I0394	0.12	0.50	ND	1	09/12/12	09/13/12	E8
Bromobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Bromochloromethane	EPA 8260B	12I0394	0.27	0.50	ND	1	09/12/12	09/13/12	E8
Bromodichloromethane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Bromoform	EPA 8260B	12I0394	0.37	1.0	ND	1	09/12/12	09/13/12	E8
Bromomethane	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
2-Butanone (MEK)	EPA 8260B	12I0394	2.2	5.0	ND	1	09/12/12	09/13/12	E8
tert-Butylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
n-Butylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
sec-Butylbenzene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Carbon disulfide	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Carbon tetrachloride	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
Chlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
Chloroethane	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
Chloroform	EPA 8260B	12I0394	0.13	0.50	**0.28**	1	09/12/12	09/13/12	E4
Chloromethane	EPA 8260B	12I0394	0.21	1.0	ND	1	09/12/12	09/13/12	E8
4-Chlorotoluene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
2-Chlorotoluene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0394	0.82	5.0	ND	1	09/12/12	09/13/12	E8
Dibromochloromethane	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0394	0.30	0.50	ND	1	09/12/12	09/13/12	E8
Dibromomethane	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethane	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0394	0.29	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
2,2-Dichloropropane	EPA 8260B	12I0394	0.18	1.0	ND	1	09/12/12	09/13/12	E8
1,3-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloropropene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0394	0.47	0.50	ND	1	09/12/12	09/13/12	E8
Ethylbenzene	EPA 8260B	12I0394	0.32	0.50	ND	1	09/12/12	09/13/12	E8
Hexachlorobutadiene	EPA 8260B	12I0394	0.28	1.0	ND	1	09/12/12	09/13/12	E8

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-03 (MW2M-091012 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0394	1.5	5.0	ND	1	09/12/12	09/13/12	E8
Iodomethane	EPA 8260B	12I0394	0.21	2.5	ND	1	09/12/12	09/13/12	E8
Isopropylbenzene	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
p-Isopropyltoluene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
Methylene Chloride	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0394	1.3	2.5	ND	1	09/12/12	09/13/12	E8
Naphthalene	EPA 8260B	12I0394	0.51	2.5	ND	1	09/12/12	09/13/12	E8
n-Propylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Styrene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0394	0.35	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0394	0.33	0.50	ND	1	09/12/12	09/13/12	E8
Tetrachloroethene	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/13/12	E8
Toluene	EPA 8260B	12I0394	0.28	0.50	ND	1	09/12/12	09/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0394	0.32	1.0	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0394	0.45	1.0	ND	1	09/12/12	09/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
Trichloroethene	EPA 8260B	12I0394	0.24	0.50	ND	1	09/12/12	09/13/12	E8
Trichlorofluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0394	0.78	2.0	ND	1	09/12/12	09/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Vinyl Acetate	EPA 8260B	12I0394	0.81	2.0	ND	1	09/12/12	09/13/12	E8
Vinyl chloride	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/13/12	E8
Xylenes, Total	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*103 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-04 (MW2M2-091012 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0394	7.3	10	ND	1	09/12/12	09/13/12	E8
Benzene	EPA 8260B	12I0394	0.12	0.50	ND	1	09/12/12	09/13/12	E8
Bromobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Bromochloromethane	EPA 8260B	12I0394	0.27	0.50	ND	1	09/12/12	09/13/12	E8
Bromodichloromethane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Bromoform	EPA 8260B	12I0394	0.37	1.0	ND	1	09/12/12	09/13/12	E8
Bromomethane	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
2-Butanone (MEK)	EPA 8260B	12I0394	2.2	5.0	ND	1	09/12/12	09/13/12	E8
tert-Butylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
n-Butylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
sec-Butylbenzene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
Carbon disulfide	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Carbon tetrachloride	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
Chlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
Chloroethane	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
Chloroform	EPA 8260B	12I0394	0.13	0.50	**0.35**	1	09/12/12	09/13/12	E4
Chloromethane	EPA 8260B	12I0394	0.21	1.0	ND	1	09/12/12	09/13/12	E8
4-Chlorotoluene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
2-Chlorotoluene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0394	0.82	5.0	ND	1	09/12/12	09/13/12	E8
Dibromochloromethane	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0394	0.30	0.50	ND	1	09/12/12	09/13/12	E8
Dibromomethane	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethane	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0394	0.29	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloroethene	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
1,2-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
2,2-Dichloropropane	EPA 8260B	12I0394	0.18	1.0	ND	1	09/12/12	09/13/12	E8
1,3-Dichloropropane	EPA 8260B	12I0394	0.23	0.50	ND	1	09/12/12	09/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0394	0.14	0.50	ND	1	09/12/12	09/13/12	E8
1,1-Dichloropropene	EPA 8260B	12I0394	0.20	0.50	ND	1	09/12/12	09/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0394	0.47	0.50	ND	1	09/12/12	09/13/12	E8
Ethylbenzene	EPA 8260B	12I0394	0.32	0.50	ND	1	09/12/12	09/13/12	E8
Hexachlorobutadiene	EPA 8260B	12I0394	0.28	1.0	ND	1	09/12/12	09/13/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0512-04 (MW2M2-091012 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0394	1.5	5.0	ND	1	09/12/12	09/13/12	E8
Iodomethane	EPA 8260B	12I0394	0.21	2.5	ND	1	09/12/12	09/13/12	E8
Isopropylbenzene	EPA 8260B	12I0394	0.26	0.50	ND	1	09/12/12	09/13/12	E8
p-Isopropyltoluene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0394	0.22	0.50	ND	1	09/12/12	09/13/12	E8
Methylene Chloride	EPA 8260B	12I0394	0.67	1.0	ND	1	09/12/12	09/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0394	1.3	2.5	ND	1	09/12/12	09/13/12	E8
Naphthalene	EPA 8260B	12I0394	0.51	2.5	ND	1	09/12/12	09/13/12	E8
n-Propylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Styrene	EPA 8260B	12I0394	0.17	0.50	ND	1	09/12/12	09/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0394	0.35	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0394	0.33	0.50	ND	1	09/12/12	09/13/12	E8
Tetrachloroethene	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/13/12	E8
Toluene	EPA 8260B	12I0394	0.28	0.50	ND	1	09/12/12	09/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0394	0.32	1.0	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0394	0.45	1.0	ND	1	09/12/12	09/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0394	0.31	0.50	ND	1	09/12/12	09/13/12	E8
Trichloroethene	EPA 8260B	12I0394	0.24	0.50	ND	1	09/12/12	09/13/12	E8
Trichlorofluoromethane	EPA 8260B	12I0394	0.15	0.50	ND	1	09/12/12	09/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0394	0.78	2.0	ND	1	09/12/12	09/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0394	0.25	0.50	ND	1	09/12/12	09/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0394	0.21	0.50	ND	1	09/12/12	09/13/12	E8
Vinyl Acetate	EPA 8260B	12I0394	0.81	2.0	ND	1	09/12/12	09/13/12	E8
Vinyl chloride	EPA 8260B	12I0394	0.18	0.50	ND	1	09/12/12	09/13/12	E8
Xylenes, Total	EPA 8260B	12I0394	0.86	1.0	ND	1	09/12/12	09/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*98 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Blank Analyzed: 09/12/2012 (12I0394-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Blank Analyzed: 09/12/2012 (12I0394-BLK1)											
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Blank Analyzed: 09/12/2012 (12I0394-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.7*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*70-130*			
LCS Analyzed: 09/12/2012 (12I0394-BS1)											
Acetone	30.5	10	7.3	ug/l	25.0		122	38-150			
Benzene	22.4	0.50	0.12	ug/l	25.0		90	70-130			
Bromobenzene	24.2	0.50	0.14	ug/l	25.0		97	70-130			
Bromochloromethane	20.5	0.50	0.27	ug/l	25.0		82	70-130			
Bromodichloromethane	24.8	0.50	0.23	ug/l	25.0		99	70-130			
Bromoform	25.5	1.0	0.37	ug/l	25.0		102	69-129			
Bromomethane	26.7	1.0	0.67	ug/l	25.0		107	57-138			
2-Butanone (MEK)	23.6	5.0	2.2	ug/l	25.0		94	53-150			
tert-Butylbenzene	27.6	0.50	0.25	ug/l	25.0		110	70-130			
n-Butylbenzene	24.0	0.50	0.21	ug/l	25.0		96	70-130			
sec-Butylbenzene	24.5	0.50	0.23	ug/l	25.0		98	70-130			
Carbon disulfide	25.9	1.0	0.86	ug/l	25.0		104	64-145			
Carbon tetrachloride	29.9	0.50	0.15	ug/l	25.0		120	70-143			
Chlorobenzene	23.5	0.50	0.17	ug/l	25.0		94	70-130			
Chloroethane	23.3	0.50	0.25	ug/l	25.0		93	66-131			
Chloroform	21.4	0.50	0.13	ug/l	25.0		86	70-130			
Chloromethane	24.7	1.0	0.21	ug/l	25.0		99	56-129			
4-Chlorotoluene	23.9	0.50	0.20	ug/l	25.0		95	70-130			
2-Chlorotoluene	25.0	0.50	0.17	ug/l	25.0		100	70-130			
1,2-Dibromo-3-chloropropane	27.5	5.0	0.82	ug/l	25.0		110	63-146			
Dibromochloromethane	24.7	0.50	0.22	ug/l	25.0		99	70-130			
1,2-Dibromoethane (EDB)	23.3	0.50	0.30	ug/l	25.0		93	70-130			
Dibromomethane	23.8	0.50	0.26	ug/l	25.0		95	70-130			

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
LCS Analyzed: 09/12/2012 (12I0394-BS1)											
1,2-Dichlorobenzene	23.6	0.50	0.22	ug/l	25.0		94	70-130			
1,4-Dichlorobenzene	22.6	0.50	0.17	ug/l	25.0		91	70-130			
1,3-Dichlorobenzene	22.8	0.50	0.14	ug/l	25.0		91	70-130			
Dichlorodifluoromethane	29.3	0.50	0.15	ug/l	25.0		117	46-144			
1,1-Dichloroethane	20.5	0.50	0.14	ug/l	25.0		82	70-130			
1,2-Dichloroethane	24.4	0.50	0.31	ug/l	25.0		97	66-139			
cis-1,2-Dichloroethene	21.8	0.50	0.21	ug/l	25.0		87	70-130			
trans-1,2-Dichloroethene	21.2	0.50	0.29	ug/l	25.0		85	69-127			
1,1-Dichloroethene	25.4	0.50	0.23	ug/l	25.0		102	63-131			
1,2-Dichloropropane	19.8	0.50	0.23	ug/l	25.0		79	70-130			
2,2-Dichloropropane	26.4	1.0	0.18	ug/l	25.0		105	69-139			
1,3-Dichloropropane	21.4	0.50	0.23	ug/l	25.0		85	70-130			
cis-1,3-Dichloropropene	22.6	0.50	0.14	ug/l	25.0		91	70-130			
1,1-Dichloropropene	20.3	0.50	0.20	ug/l	25.0		81	70-130			
trans-1,3-Dichloropropene	22.2	0.50	0.47	ug/l	25.0		89	70-130			
Ethylbenzene	24.0	0.50	0.32	ug/l	25.0		96	70-130			
Hexachlorobutadiene	34.2	1.0	0.28	ug/l	25.0		137	76-145			
2-Hexanone	21.4	5.0	1.5	ug/l	25.0		86	55-150			
Iodomethane	28.2	2.5	0.21	ug/l	25.0		113	74-150			
Isopropylbenzene	26.5	0.50	0.26	ug/l	25.0		106	88-141			
p-Isopropyltoluene	24.9	0.50	0.21	ug/l	25.0		100	70-130			
Methyl-tert-butyl Ether (MTBE)	21.6	0.50	0.22	ug/l	25.0		86	70-130			
Methylene Chloride	22.6	1.0	0.67	ug/l	25.0		90	63-128			
4-Methyl-2-pentanone (MIBK)	20.3	2.5	1.3	ug/l	25.0		81	64-142			
Naphthalene	24.6	2.5	0.51	ug/l	25.0		98	78-143			
n-Propylbenzene	24.6	0.50	0.21	ug/l	25.0		98	70-130			
Styrene	23.2	0.50	0.17	ug/l	25.0		93	70-130			
1,1,1,2-Tetrachloroethane	24.3	0.50	0.35	ug/l	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	22.3	0.50	0.33	ug/l	25.0		89	70-130			
Tetrachloroethene	23.9	0.50	0.18	ug/l	25.0		96	70-130			
Toluene	23.8	0.50	0.28	ug/l	25.0		95	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
LCS Analyzed: 09/12/2012 (12I0394-BS1)											
1,2,4-Trichlorobenzene	25.7	1.0	0.32	ug/l	25.0		103	80-137			
1,2,3-Trichlorobenzene	24.9	1.0	0.45	ug/l	25.0		99	79-139			
1,1,1-Trichloroethane	26.0	0.50	0.15	ug/l	25.0		104	71-131			
1,1,2-Trichloroethane	23.5	0.50	0.31	ug/l	25.0		94	70-130			
Trichloroethene	23.9	0.50	0.24	ug/l	25.0		96	70-130			
Trichlorofluoromethane	32.4	0.50	0.15	ug/l	25.0		130	69-150			
1,2,3-Trichloropropane	22.3	2.0	0.78	ug/l	25.0		89	70-130			
1,2,4-Trimethylbenzene	25.3	0.50	0.25	ug/l	25.0		101	70-130			
1,3,5-Trimethylbenzene	25.7	0.50	0.21	ug/l	25.0		103	70-130			
Vinyl Acetate	20.4	2.0	0.81	ug/l	25.0		82	67-148			
Vinyl chloride	25.5	0.50	0.18	ug/l	25.0		102	65-137			
Xylenes, Total	48.3	1.0	0.86	ug/l	50.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	*27.3*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			
LCS Dup Analyzed: 09/12/2012 (12I0394-BSD1)											
Acetone	17.8	10	7.3	ug/l	25.0		71	38-150	52	35	*R6*
Benzene	23.4	0.50	0.12	ug/l	25.0		94	70-130	4	20	
Bromobenzene	24.2	0.50	0.14	ug/l	25.0		97	70-130	0.4	20	
Bromochloromethane	24.2	0.50	0.27	ug/l	25.0		97	70-130	16	20	
Bromodichloromethane	26.9	0.50	0.23	ug/l	25.0		108	70-130	8	20	
Bromoform	27.5	1.0	0.37	ug/l	25.0		110	69-129	8	20	
Bromomethane	26.4	1.0	0.67	ug/l	25.0		105	57-138	1	20	
2-Butanone (MEK)	20.8	5.0	2.2	ug/l	25.0		83	53-150	12	35	
tert-Butylbenzene	26.4	0.50	0.25	ug/l	25.0		105	70-130	4	20	
n-Butylbenzene	24.2	0.50	0.21	ug/l	25.0		97	70-130	1	20	
sec-Butylbenzene	24.6	0.50	0.23	ug/l	25.0		98	70-130	0.3	20	
Carbon disulfide	26.6	1.0	0.86	ug/l	25.0		106	64-145	3	33	
Carbon tetrachloride	29.6	0.50	0.15	ug/l	25.0		118	70-143	1	20	
Chlorobenzene	24.6	0.50	0.17	ug/l	25.0		98	70-130	5	20	
Chloroethane	24.8	0.50	0.25	ug/l	25.0		99	66-131	6	20	

TestAmerica Phoenix

Kylie Emily
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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
LCS Dup Analyzed: 09/12/2012 (12I0394-BSD1)											
Chloroform	23.1	0.50	0.13	ug/l	25.0		92	70-130	8	20	
Chloromethane	25.8	1.0	0.21	ug/l	25.0		103	56-129	4	20	
4-Chlorotoluene	24.6	0.50	0.20	ug/l	25.0		98	70-130	3	20	
2-Chlorotoluene	24.2	0.50	0.17	ug/l	25.0		97	70-130	3	20	
1,2-Dibromo-3-chloropropane	29.6	5.0	0.82	ug/l	25.0		118	63-146	7	22	
Dibromochloromethane	27.0	0.50	0.22	ug/l	25.0		108	70-130	9	20	
1,2-Dibromoethane (EDB)	26.5	0.50	0.30	ug/l	25.0		106	70-130	13	20	
Dibromomethane	24.9	0.50	0.26	ug/l	25.0		100	70-130	5	20	
1,2-Dichlorobenzene	24.4	0.50	0.22	ug/l	25.0		98	70-130	4	20	
1,4-Dichlorobenzene	23.1	0.50	0.17	ug/l	25.0		93	70-130	2	20	
1,3-Dichlorobenzene	23.9	0.50	0.14	ug/l	25.0		96	70-130	5	20	
Dichlorodifluoromethane	29.3	0.50	0.15	ug/l	25.0		117	46-144	0.03	23	
1,1-Dichloroethane	21.7	0.50	0.14	ug/l	25.0		87	70-130	6	20	
1,2-Dichloroethane	27.5	0.50	0.31	ug/l	25.0		110	66-139	12	20	
cis-1,2-Dichloroethene	23.0	0.50	0.21	ug/l	25.0		92	70-130	5	20	
trans-1,2-Dichloroethene	23.8	0.50	0.29	ug/l	25.0		95	69-127	12	20	
1,1-Dichloroethene	26.0	0.50	0.23	ug/l	25.0		104	63-131	2	22	
1,2-Dichloropropane	20.7	0.50	0.23	ug/l	25.0		83	70-130	5	20	
2,2-Dichloropropane	27.9	1.0	0.18	ug/l	25.0		112	69-139	6	20	
1,3-Dichloropropane	24.7	0.50	0.23	ug/l	25.0		99	70-130	15	20	
cis-1,3-Dichloropropene	24.5	0.50	0.14	ug/l	25.0		98	70-130	8	20	
1,1-Dichloropropene	20.0	0.50	0.20	ug/l	25.0		80	70-130	2	20	
trans-1,3-Dichloropropene	26.2	0.50	0.47	ug/l	25.0		105	70-130	16	20	
Ethylbenzene	25.1	0.50	0.32	ug/l	25.0		100	70-130	4	20	
Hexachlorobutadiene	33.4	1.0	0.28	ug/l	25.0		134	76-145	2	20	
2-Hexanone	20.2	5.0	1.5	ug/l	25.0		81	55-150	6	35	
Iodomethane	30.0	2.5	0.21	ug/l	25.0		120	74-150	6	20	
Isopropylbenzene	26.6	0.50	0.26	ug/l	25.0		106	88-141	0.3	20	
p-Isopropyltoluene	24.9	0.50	0.21	ug/l	25.0		100	70-130	0	20	
Methyl-tert-butyl Ether (MTBE)	24.6	0.50	0.22	ug/l	25.0		98	70-130	13	20	
Methylene Chloride	24.3	1.0	0.67	ug/l	25.0		97	63-128	7	21	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
LCS Dup Analyzed: 09/12/2012 (12I0394-BSD1)											
4-Methyl-2-pentanone (MIBK)	24.5	2.5	1.3	ug/l	25.0		98	64-142	18	25	
Naphthalene	28.0	2.5	0.51	ug/l	25.0		112	78-143	13	20	
n-Propylbenzene	25.2	0.50	0.21	ug/l	25.0		101	70-130	2	20	
Styrene	25.2	0.50	0.17	ug/l	25.0		101	70-130	8	20	
1,1,1,2-Tetrachloroethane	26.8	0.50	0.35	ug/l	25.0		107	70-130	10	20	
1,1,2,2-Tetrachloroethane	25.2	0.50	0.33	ug/l	25.0		101	70-130	12	20	
Tetrachloroethene	24.1	0.50	0.18	ug/l	25.0		97	70-130	0.9	20	
Toluene	24.5	0.50	0.28	ug/l	25.0		98	70-130	3	20	
1,2,4-Trichlorobenzene	26.9	1.0	0.32	ug/l	25.0		108	80-137	5	20	
1,2,3-Trichlorobenzene	27.6	1.0	0.45	ug/l	25.0		110	79-139	10	20	
1,1,1-Trichloroethane	27.5	0.50	0.15	ug/l	25.0		110	71-131	6	20	
1,1,2-Trichloroethane	25.4	0.50	0.31	ug/l	25.0		102	70-130	8	20	
Trichloroethene	25.0	0.50	0.24	ug/l	25.0		100	70-130	5	20	
Trichlorofluoromethane	32.8	0.50	0.15	ug/l	25.0		131	69-150	1	22	
1,2,3-Trichloropropane	28.7	2.0	0.78	ug/l	25.0		115	70-130	25	20	*R6*
1,2,4-Trimethylbenzene	25.5	0.50	0.25	ug/l	25.0		102	70-130	0.9	20	
1,3,5-Trimethylbenzene	26.0	0.50	0.21	ug/l	25.0		104	70-130	1	20	
Vinyl Acetate	24.1	2.0	0.81	ug/l	25.0		96	67-148	17	22	
Vinyl chloride	24.8	0.50	0.18	ug/l	25.0		99	65-137	3	20	
Xylenes, Total	50.2	1.0	0.86	ug/l	50.0		100	70-130	4	20	
Surrogate: 4-Bromofluorobenzene	*26.3*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*70-130*			
Matrix Spike Analyzed: 09/12/2012 (12I0394-MS1)						**Source: PVI0525-06**					
Acetone	15.6	10	7.3	ug/l	25.0	ND	63	29-139			
Benzene	24.3	0.50	0.12	ug/l	25.0	ND	97	68-131			
Bromobenzene	25.2	0.50	0.14	ug/l	25.0	ND	101	70-130			
Bromochloromethane	22.9	0.50	0.27	ug/l	25.0	ND	92	64-132			
Bromodichloromethane	26.2	0.50	0.23	ug/l	25.0	ND	105	63-138			
Bromoform	27.9	1.0	0.37	ug/l	25.0	ND	112	60-128			
Bromomethane	27.5	1.0	0.67	ug/l	25.0	ND	110	47-144			

TestAmerica Phoenix

Kylie Emily
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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Matrix Spike Analyzed: 09/12/2012 (12I0394-MS1)						**Source: PVI0525-06**					
2-Butanone (MEK)	17.5	5.0	2.2	ug/l	25.0	ND	70	31-143			
tert-Butylbenzene	26.7	0.50	0.25	ug/l	25.0	ND	107	74-135			
n-Butylbenzene	23.6	0.50	0.21	ug/l	25.0	ND	94	69-140			
sec-Butylbenzene	25.6	0.50	0.23	ug/l	25.0	ND	103	72-136			
Carbon disulfide	27.7	1.0	0.86	ug/l	25.0	ND	111	45-150			
Carbon tetrachloride	29.6	0.50	0.15	ug/l	25.0	ND	118	65-147			
Chlorobenzene	24.1	0.50	0.17	ug/l	25.0	ND	96	70-130			
Chloroethane	26.4	0.50	0.25	ug/l	25.0	ND	106	57-139			
Chloroform	27.8	0.50	0.13	ug/l	25.0	2.36	102	63-131			
Chloromethane	26.9	1.0	0.21	ug/l	25.0	ND	107	47-134			
4-Chlorotoluene	25.6	0.50	0.20	ug/l	25.0	ND	102	70-130			
2-Chlorotoluene	26.8	0.50	0.17	ug/l	25.0	ND	107	71-131			
1,2-Dibromo-3-chloropropane	26.8	5.0	0.82	ug/l	25.0	ND	107	53-145			
Dibromochloromethane	26.5	0.50	0.22	ug/l	25.0	ND	106	65-134			
1,2-Dibromoethane (EDB)	22.4	0.50	0.30	ug/l	25.0	ND	90	70-130			
Dibromomethane	24.9	0.50	0.26	ug/l	25.0	ND	100	66-136			
1,2-Dichlorobenzene	26.0	0.50	0.22	ug/l	25.0	ND	104	70-130			
1,4-Dichlorobenzene	23.5	0.50	0.17	ug/l	25.0	ND	94	70-130			
1,3-Dichlorobenzene	24.8	0.50	0.14	ug/l	25.0	ND	99	70-130			
Dichlorodifluoromethane	30.8	0.50	0.15	ug/l	25.0	ND	123	40-148			
1,1-Dichloroethane	25.0	0.50	0.14	ug/l	25.0	1.57	94	62-130			
1,2-Dichloroethane	27.3	0.50	0.31	ug/l	25.0	0.320	108	54-147			
cis-1,2-Dichloroethene	32.0	0.50	0.21	ug/l	25.0	6.52	102	65-127			
trans-1,2-Dichloroethene	24.0	0.50	0.29	ug/l	25.0	ND	96	62-131			
1,1-Dichloroethene	30.1	0.50	0.23	ug/l	25.0	2.06	112	57-137			
1,2-Dichloropropane	22.5	0.50	0.23	ug/l	25.0	ND	90	68-126			
2,2-Dichloropropane	25.9	1.0	0.18	ug/l	25.0	ND	104	60-146			
1,3-Dichloropropane	22.0	0.50	0.23	ug/l	25.0	ND	88	68-129			
cis-1,3-Dichloropropene	24.2	0.50	0.14	ug/l	25.0	ND	97	63-135			
1,1-Dichloropropene	20.9	0.50	0.20	ug/l	25.0	ND	84	64-134			
trans-1,3-Dichloropropene	26.9	0.50	0.47	ug/l	25.0	ND	107	58-136			

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Matrix Spike Analyzed: 09/12/2012 (12I0394-MS1)						**Source: PVI0525-06**					
Ethylbenzene	24.6	0.50	0.32	ug/l	25.0	ND	99	74-134			
Hexachlorobutadiene	32.4	1.0	0.28	ug/l	25.0	ND	130	69-150			
2-Hexanone	16.0	5.0	1.5	ug/l	25.0	ND	64	40-142			
Iodomethane	31.4	2.5	0.21	ug/l	25.0	ND	125	53-150			
Isopropylbenzene	27.9	0.50	0.26	ug/l	25.0	ND	111	80-146			
p-Isopropyltoluene	26.0	0.50	0.21	ug/l	25.0	ND	104	70-133			
Methyl-tert-butyl Ether (MTBE)	25.8	0.50	0.22	ug/l	25.0	ND	103	67-138			
Methylene Chloride	25.8	1.0	0.67	ug/l	25.0	ND	103	55-133			
4-Methyl-2-pentanone (MIBK)	20.9	2.5	1.3	ug/l	25.0	ND	84	52-143			
Naphthalene	24.9	2.5	0.51	ug/l	25.0	ND	100	67-146			
n-Propylbenzene	26.1	0.50	0.21	ug/l	25.0	ND	104	74-140			
Styrene	23.1	0.50	0.17	ug/l	25.0	ND	92	43-144			
1,1,1,2-Tetrachloroethane	25.0	0.50	0.35	ug/l	25.0	ND	100	70-130			
1,1,2,2-Tetrachloroethane	23.4	0.50	0.33	ug/l	25.0	ND	94	63-137			
Tetrachloroethene	31.9	0.50	0.18	ug/l	25.0	7.54	97	67-131			
Toluene	25.1	0.50	0.28	ug/l	25.0	ND	100	65-138			
1,2,4-Trichlorobenzene	27.4	1.0	0.32	ug/l	25.0	ND	110	74-138			
1,2,3-Trichlorobenzene	26.7	1.0	0.45	ug/l	25.0	ND	107	74-139			
1,1,1-Trichloroethane	28.2	0.50	0.15	ug/l	25.0	ND	113	64-138			
1,1,2-Trichloroethane	24.4	0.50	0.31	ug/l	25.0	ND	98	63-132			
Trichloroethene	87.0	0.50	0.24	ug/l	25.0	55.7	125	66-132			
Trichlorofluoromethane	34.4	0.50	0.15	ug/l	25.0	0.320	136	62-150			
1,2,3-Trichloropropane	24.8	2.0	0.78	ug/l	25.0	ND	99	68-130			
1,2,4-Trimethylbenzene	26.1	0.50	0.25	ug/l	25.0	ND	105	63-135			
1,3,5-Trimethylbenzene	26.3	0.50	0.21	ug/l	25.0	ND	105	66-137			
Vinyl Acetate	19.1	2.0	0.81	ug/l	25.0	ND	76	47-150			
Vinyl chloride	26.4	0.50	0.18	ug/l	25.0	ND	106	55-146			
Xylenes, Total	50.1	1.0	0.86	ug/l	50.0	ND	100	68-131			
Surrogate: 4-Bromofluorobenzene	*26.7*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*26.5*			*ug/l*	*25.0*		*106*	*70-130*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*70-130*			

TestAmerica Phoenix

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Matrix Spike Dup Analyzed: 09/12/2012 (12I0394-MSD1)						**Source: PVI0525-06**					
Acetone	17.6	10	7.3	ug/l	25.0	ND	70	29-139	12	35	
Benzene	22.4	0.50	0.12	ug/l	25.0	ND	90	68-131	8	32	
Bromobenzene	25.9	0.50	0.14	ug/l	25.0	ND	103	70-130	3	28	
Bromochloromethane	23.3	0.50	0.27	ug/l	25.0	ND	93	64-132	1	35	
Bromodichloromethane	27.2	0.50	0.23	ug/l	25.0	ND	109	63-138	4	31	
Bromoform	31.2	1.0	0.37	ug/l	25.0	ND	125	60-128	11	31	
Bromomethane	27.7	1.0	0.67	ug/l	25.0	ND	111	47-144	0.8	35	
2-Butanone (MEK)	19.7	5.0	2.2	ug/l	25.0	ND	79	31-143	12	35	
tert-Butylbenzene	27.4	0.50	0.25	ug/l	25.0	ND	109	74-135	2	32	
n-Butylbenzene	23.9	0.50	0.21	ug/l	25.0	ND	96	69-140	1	32	
sec-Butylbenzene	25.6	0.50	0.23	ug/l	25.0	ND	102	72-136	0.2	33	
Carbon disulfide	27.7	1.0	0.86	ug/l	25.0	ND	111	45-150	0.07	35	
Carbon tetrachloride	29.3	0.50	0.15	ug/l	25.0	ND	117	65-147	1	35	
Chlorobenzene	24.2	0.50	0.17	ug/l	25.0	ND	97	70-130	0.4	30	
Chloroethane	26.8	0.50	0.25	ug/l	25.0	ND	107	57-139	2	35	
Chloroform	26.9	0.50	0.13	ug/l	25.0	2.36	98	63-131	3	33	
Chloromethane	27.4	1.0	0.21	ug/l	25.0	ND	109	47-134	2	35	
4-Chlorotoluene	25.3	0.50	0.20	ug/l	25.0	ND	101	70-130	1	28	
2-Chlorotoluene	25.4	0.50	0.17	ug/l	25.0	ND	101	71-131	5	29	
1,2-Dibromo-3-chloropropane	32.0	5.0	0.82	ug/l	25.0	ND	128	53-145	17	35	
Dibromochloromethane	26.6	0.50	0.22	ug/l	25.0	ND	106	65-134	0.2	33	
1,2-Dibromoethane (EDB)	24.4	0.50	0.30	ug/l	25.0	ND	97	70-130	8	33	
Dibromomethane	24.8	0.50	0.26	ug/l	25.0	ND	99	66-136	0.3	35	
1,2-Dichlorobenzene	24.6	0.50	0.22	ug/l	25.0	ND	98	70-130	6	27	
1,4-Dichlorobenzene	24.4	0.50	0.17	ug/l	25.0	ND	98	70-130	4	26	
1,3-Dichlorobenzene	24.4	0.50	0.14	ug/l	25.0	ND	97	70-130	2	28	
Dichlorodifluoromethane	30.8	0.50	0.15	ug/l	25.0	ND	123	40-148	0.3	35	
1,1-Dichloroethane	25.4	0.50	0.14	ug/l	25.0	1.57	95	62-130	2	34	
1,2-Dichloroethane	27.7	0.50	0.31	ug/l	25.0	0.320	109	54-147	1	35	
cis-1,2-Dichloroethene	31.0	0.50	0.21	ug/l	25.0	6.52	98	65-127	3	34	
trans-1,2-Dichloroethene	22.4	0.50	0.29	ug/l	25.0	ND	90	62-131	7	35	

TestAmerica Phoenix

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Matrix Spike Dup Analyzed: 09/12/2012 (12I0394-MSD1)						**Source: PVI0525-06**					
1,1-Dichloroethene	29.6	0.50	0.23	ug/l	25.0	2.06	110	57-137	2	35	
1,2-Dichloropropane	22.2	0.50	0.23	ug/l	25.0	ND	89	68-126	1	32	
2,2-Dichloropropane	25.8	1.0	0.18	ug/l	25.0	ND	103	60-146	0.2	35	
1,3-Dichloropropane	22.5	0.50	0.23	ug/l	25.0	ND	90	68-129	2	33	
cis-1,3-Dichloropropene	23.5	0.50	0.14	ug/l	25.0	ND	94	63-135	3	35	
1,1-Dichloropropene	20.0	0.50	0.20	ug/l	25.0	ND	80	64-134	5	34	
trans-1,3-Dichloropropene	24.6	0.50	0.47	ug/l	25.0	ND	98	58-136	9	35	
Ethylbenzene	24.6	0.50	0.32	ug/l	25.0	ND	98	74-134	0.1	32	
Hexachlorobutadiene	32.6	1.0	0.28	ug/l	25.0	ND	130	69-150	0.4	32	
2-Hexanone	18.8	5.0	1.5	ug/l	25.0	ND	75	40-142	16	35	
Iodomethane	30.2	2.5	0.21	ug/l	25.0	ND	121	53-150	4	35	
Isopropylbenzene	27.6	0.50	0.26	ug/l	25.0	ND	110	80-146	1	32	
p-Isopropyltoluene	24.6	0.50	0.21	ug/l	25.0	ND	99	70-133	5	32	
Methyl-tert-butyl Ether (MTBE)	25.9	0.50	0.22	ug/l	25.0	ND	104	67-138	0.5	21	
Methylene Chloride	25.9	1.0	0.67	ug/l	25.0	ND	104	55-133	0.5	35	
4-Methyl-2-pentanone (MIBK)	22.2	2.5	1.3	ug/l	25.0	ND	89	52-143	6	35	
Naphthalene	26.7	2.5	0.51	ug/l	25.0	ND	107	67-146	7	29	
n-Propylbenzene	25.8	0.50	0.21	ug/l	25.0	ND	103	74-140	1	32	
Styrene	23.3	0.50	0.17	ug/l	25.0	ND	93	43-144	0.9	35	
1,1,1,2-Tetrachloroethane	26.6	0.50	0.35	ug/l	25.0	ND	106	70-130	6	30	
1,1,2,2-Tetrachloroethane	24.6	0.50	0.33	ug/l	25.0	ND	98	63-137	5	32	
Tetrachloroethene	31.2	0.50	0.18	ug/l	25.0	7.54	95	67-131	2	31	
Toluene	24.1	0.50	0.28	ug/l	25.0	ND	96	65-138	4	33	
1,2,4-Trichlorobenzene	25.0	1.0	0.32	ug/l	25.0	ND	100	74-138	9	26	
1,2,3-Trichlorobenzene	25.8	1.0	0.45	ug/l	25.0	ND	103	74-139	3	26	
1,1,1-Trichloroethane	28.6	0.50	0.15	ug/l	25.0	ND	114	64-138	1	35	
1,1,2-Trichloroethane	25.4	0.50	0.31	ug/l	25.0	ND	102	63-132	4	35	
Trichloroethene	83.9	0.50	0.24	ug/l	25.0	55.7	113	66-132	4	29	
Trichlorofluoromethane	34.4	0.50	0.15	ug/l	25.0	0.320	136	62-150	0.1	35	
1,2,3-Trichloropropane	26.7	2.0	0.78	ug/l	25.0	ND	107	68-130	7	32	
1,2,4-Trimethylbenzene	25.6	0.50	0.25	ug/l	25.0	ND	102	63-135	2	31	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0394 Extracted: 09/12/12											
Matrix Spike Dup Analyzed: 09/12/2012 (12I0394-MSD1)						**Source: PVI0525-06**					
1,3,5-Trimethylbenzene	26.0	0.50	0.21	ug/l	25.0	ND	104	66-137	1	30	
Vinyl Acetate	21.1	2.0	0.81	ug/l	25.0	ND	84	47-150	10	35	
Vinyl chloride	26.5	0.50	0.18	ug/l	25.0	ND	106	55-146	0.4	35	
Xylenes, Total	47.8	1.0	0.86	ug/l	50.0	ND	96	68-131	5	31	
Surrogate: 4-Bromofluorobenzene	*27.2*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate P.O. Box 53999, M/S 9307 Phoenix, AZ 85072-3999 Attention: Judy Heywood	Project ID: APS 501,502, and 505 Report Number: PVI0512	Sampled: 09/10/12 Received: 09/10/12

DATA QUALIFIERS AND DEFINITIONS

E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0512

Sampled: 09/10/12
Received: 09/10/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 08/10/12

TestAmerica
Phoenix

Instrument ID	GCMS 2
Date:	8/10/12
Analyst	mm
Method(s)	8260/624
50 ppm Cal. Std.	PV04887
2.5 ppm Cal. Std.	PV04888
500 / 250 / 50 ppm EtOH/TBA/Surr Cal. Std.	PV04791
50 / 25 / 5 ppm EtOH/TBA/Surr Cal. Std.	PV04792
50 ppm SS Std.	PV04717
500 / 250 ppm EtOH/TBA SS Std.	PV04303
Tertiary Std.	NA

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: _____ Date: 8/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\081012

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	08101201.d	1.	TUNE		10 Aug 2012 06:39
2	2	08101202.d	1.	25 PPB CCV		10 Aug 2012 06:57
3	3	08101203.d	1.	BLANK		10 Aug 2012 07:30
4	4	08101204.d	1.	0.5 PPB ICAL		10 Aug 2012 08:03
5	5	08101205.d	1.	1.0 PPB ICAL		10 Aug 2012 08:36
6	6	08101206.d	1.	2.0 PPB ICAL		10 Aug 2012 09:08
7	7	08101207.d	1.	5.0 PPB ICAL		10 Aug 2012 09:41
8	8	08101208.d	1.	10 PPB ICAL		10 Aug 2012 10:14
9	9	08101209.d	1.	25 PPB ICAL		10 Aug 2012 10:46
10	10	08101210.d	1.	50 PPB ICAL		10 Aug 2012 11:19
11	11	08101211.d	1.	100 PPB ICAL		10 Aug 2012 11:51
12	12	08101212.d	1.	200 PPB ICAL		10 Aug 2012 12:24
13	13	08101213.d	1.	BLANK		10 Aug 2012 12:57
14	1	08101214.d	1.	TUNE		10 Aug 2012 13:24
15	2	08101215.d	1.	25 PPB ICV/SS		10 Aug 2012 13:40
16	3	08101216.d	1.	12H0456-BS1		10 Aug 2012 14:13
17	4	08101217.d	1.	12H0456-BSD1		10 Aug 2012 14:45
18	5	08101218.d	1.	12H0456-BLK1		10 Aug 2012 15:18
19	6	08101219.d	1.	PVH0139-08@TB		10 Aug 2012 15:57
20	7	08101220.d	1.	PVH0159-04@TB		10 Aug 2012 16:32
21	8	08101221.d	1.	PVH0232-01	SOURCE	10 Aug 2012 17:05
22	9	08101222.d	1.	12H0456-MS1		10 Aug 2012 17:37
23	10	08101223.d	1.	12H0456-MSD1		10 Aug 2012 18:10
24	11	08101224.d	1.	PVH0620-01		10 Aug 2012 18:43
25	12	08101225.d	1.	PVH0620-02		10 Aug 2012 19:15
26	13	08101226.d	1.	PVH0257-05		10 Aug 2012 19:48
27	14	08101227.d	1.	PVH0257-06		10 Aug 2012 20:21
28	15	08101228.d	1.	PVH0257-07		10 Aug 2012 20:53
29	16	08101229.d	1.	PVH0257-08		10 Aug 2012 21:26
30	17	08101230.d	1.	PVH0257-09		10 Aug 2012 21:58
31	18	08101231.d	1.	PVH0159-03		10 Aug 2012 22:31
32	19	08101232.d	1.	PVH0568-01	100X	10 Aug 2012 23:04
33	20	08101233.d	1.	PVH0697-01	100X	10 Aug 2012 23:36
34	21	08101234.d	1.	PVH0569-01	100X	11 Aug 2012 00:09
35	22	08101235.d	1.	PVH0698-01	100X	11 Aug 2012 00:41
36	23	08101236.d	1.	PVH0202-01	100000X	11 Aug 2012 01:14

8/13/12

MM 8/13/12

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GC/MS 2 DAILY LOG SUMMARY

DATE: 8/10/12 QC BATCH # (s) : 12H0456

ANALYST: mm SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	08101201	Tunc	2µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	DMC
3	03	Blank	✓				
4	04	0.5 ppb ICAL	✓				
5	05	1.0	✓				
6	06	2.0	✓				
7	07	5.0	✓				
8	08	10	✓				
9	09	25	✓				
10	10	50	✓				
11	11	100	✓				
12	12	200	✓				
13	13	Blank	✓				DMC cleanout
1	14	Tunc	2µL			NA	
2	15	25 ppb ICV/SS	✓			H_2O	
3	16	12H0456-BS1	✓	NA			
4	17	-BSD1	✓				
5	18	-BLK1	✓				
6	19	PVH0139-08A	✓	✓			TB
7	20	PVH0159-04A	✓	✓			TB
8	21	PVH0232-01A	✓	✓			Source
9	22	12H0456-MS1	✓	✓			
10	23	-MSD1	✓	✓			
11	24	PVH0020-01A	✓	✓			
12	25	-02A	✓	✓			
13	26	PVH0257-05A	✓	✓			
14	27	-06A	✓	✓			
15	28	-07A	✓	✓			
16	29	-08A	✓	✓			
17	30	-09A	✓	✓			RL10X RDCE

STANDARD ID NUMBERS

ICV / H_2O LCS: PV0477/4303

CCV/CALIBRATION STD: PV0488/4792/4887/4791

Internal Std: 4795

IS/Surrogate/BFB: 4794/4559

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL ICV SS + 5µL IS/Surr → 10ml H_2

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: mm 8/13/12

SEQUENCE REVIEWED By/Date: ✓

FINAL REVIEWER / Date: 8/13/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 08/10/12 QC BATCH # (s) : 12H0450

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
18	31	PVH0159-03A	✓	7	~~8260~~ ~~8260~~ ek 081012 8260	H_2O	RL 10X T All vials pH=7
19	32	0508-01D	100 ml → 10 ml H_2O	11			100X WM
20	33	0097-01D	100 ml → 10 ml H_2O	11			100X WM
21	34	0509-01D	100 ml → 10 ml H_2O	11			100X WM
22	35	0098-01D	100 ml → 10 ml H_2O	11			100X WM
23	310	0202-01B	1 ml → 10 ml H_2O → 1 ml → 10 ml H_2O	11			100,000X odor
							RL ~~10~~ 5 000,000X MEK, A, T

ek 081012

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD: see pg. 2

Internal Std:

IS/Surrogate/BFB: see pg. 2

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date: see pg. 2

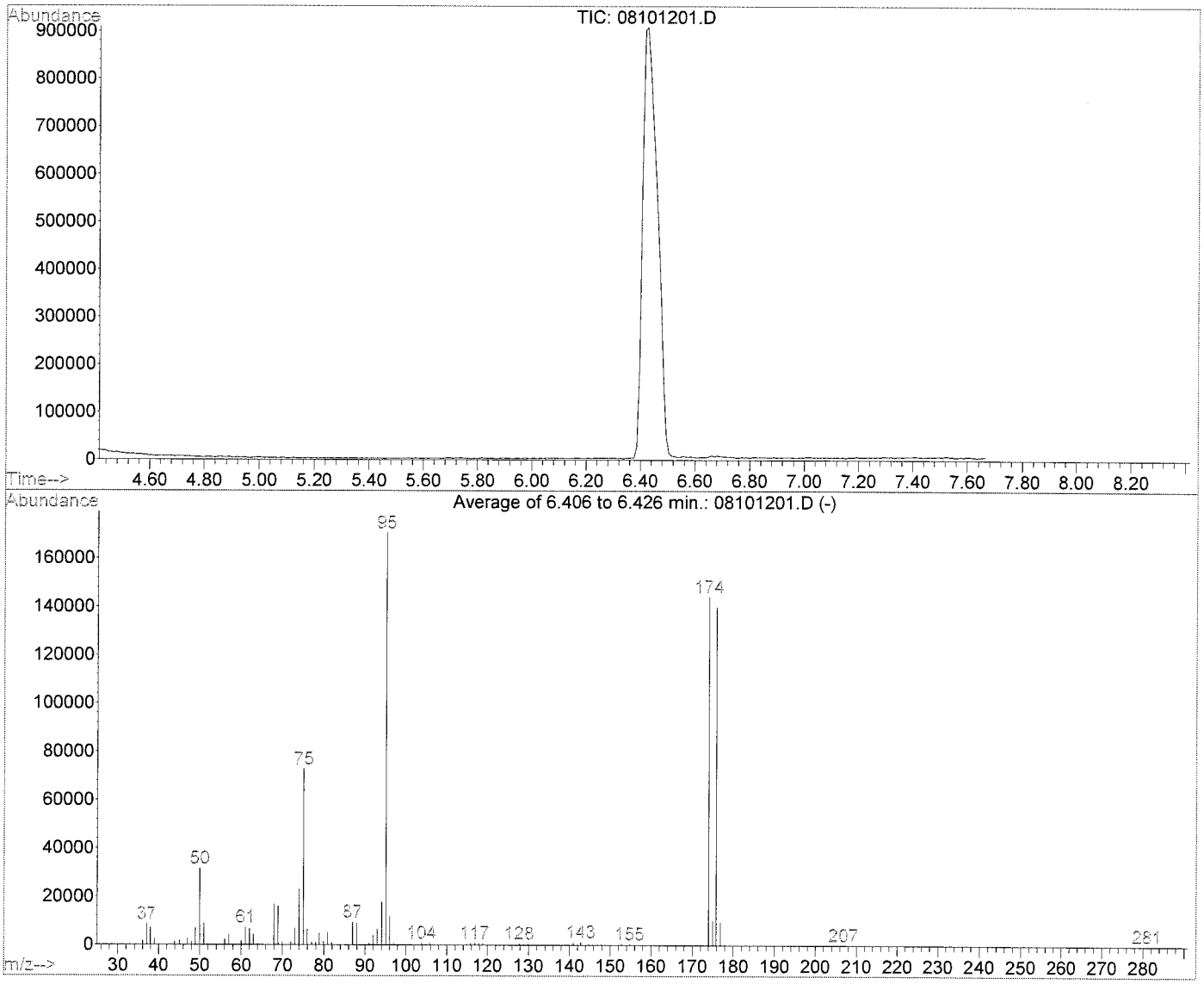
SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: RR 8/13/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101201.D Vial: 1
Acq On : 10 Aug 2012 6:39 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration

8/13/12



Spectrum Information: Average of 6.406 to 6.426 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	31531	PASS
75	95	30	60	42.7	72755	PASS
95	95	100	100	100.0	170560	PASS
96	95	5	9	6.9	11734	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	144072	PASS
175	174	5	9	7.0	10104	PASS
176	174	95	101	97.0	139779	PASS
177	176	5	9	6.8	9517	PASS

MM 8/13/12

08101201.D 080712.M Fri Aug 10 12:47:05 2012

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00	ug/L	-0.01
50) Chlorobenzene-d5	15.28	117	292809	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	131913	28.41	ug/L	0.00
Spiked Amount 25.000			Recovery	=	113.64%	
48) Toluene-d8	13.33	98	397025	26.94	ug/L	0.00
Spiked Amount 25.000			Recovery	=	107.76%	
62) 4-Bromofluorobenzene	16.95	95	111862	26.20	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	104.80%	
Target Compounds						Qvalue
2) Ethanol	5.47	45	748	20.03	ug/L	80
9) Bromomethane	5.29	94	868	0.15	ug/L #	4
12) Acetone	6.25	43	1787	1.44	ug/L #	62
14) 1,1-Dichloroethene	6.82	96	491	0.09	ug/L #	1
28) 2,2-Dichloropropane	9.30	77	770	0.10	ug/L #	49
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.41	ug/L #	32
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.11	ug/L #	39
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.12	ug/L #	59
84) Napthalene	21.84	128	1664	0.34	ug/L #	82

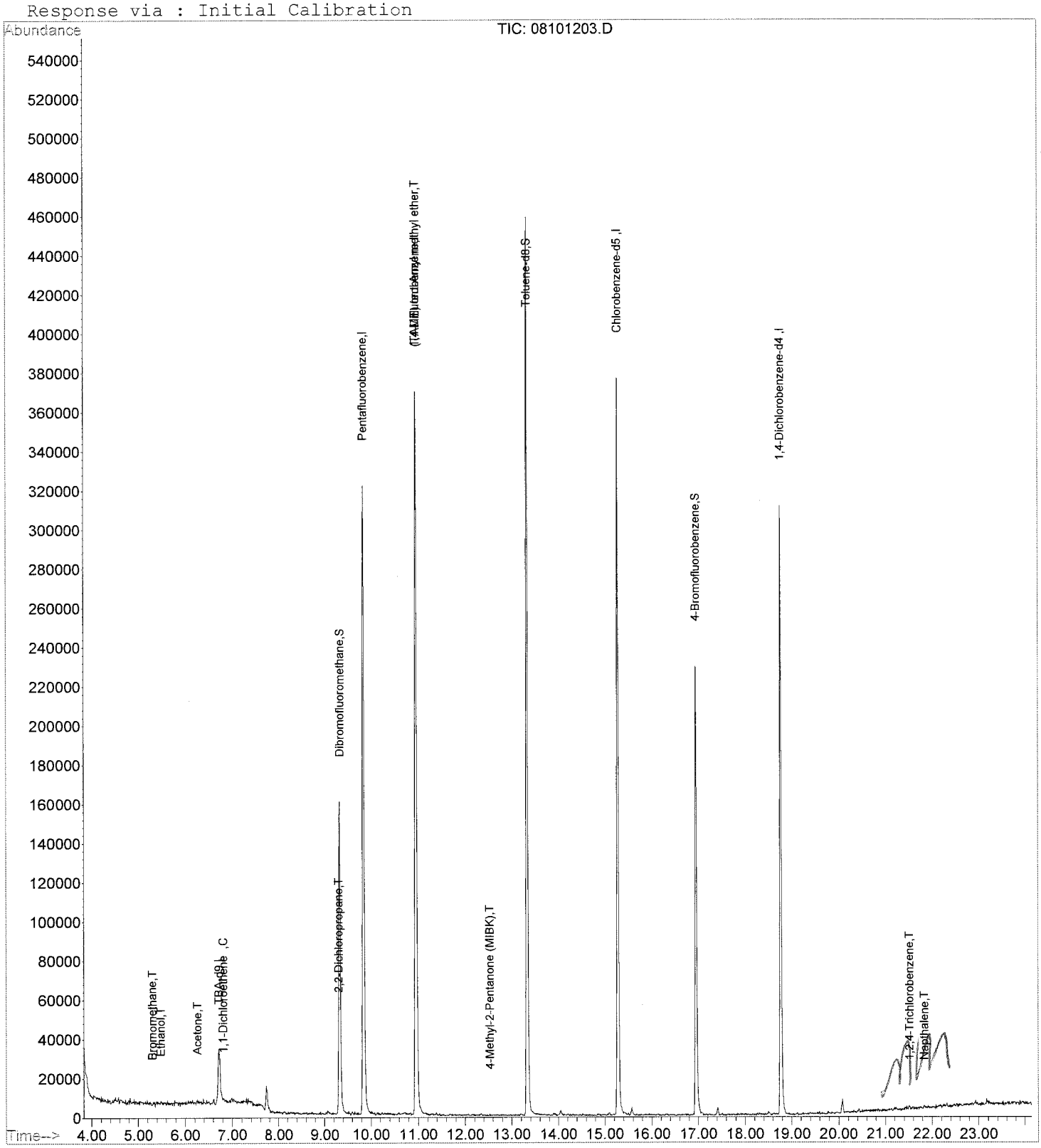
MM 8/13/12

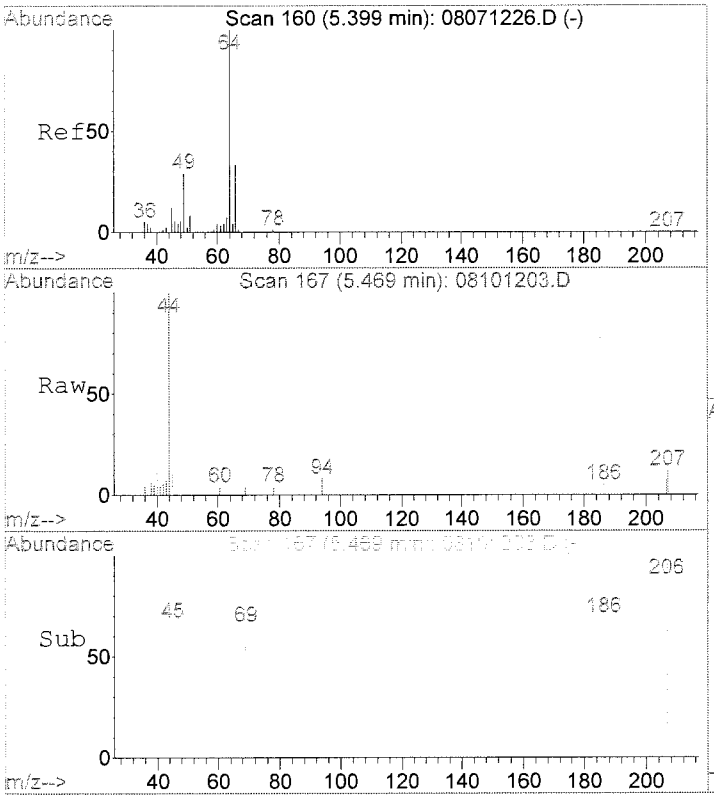
(#) = qualifier out of range (m) = manual integration
08101203.D 080712.M Fri Aug 10 12:47:36 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

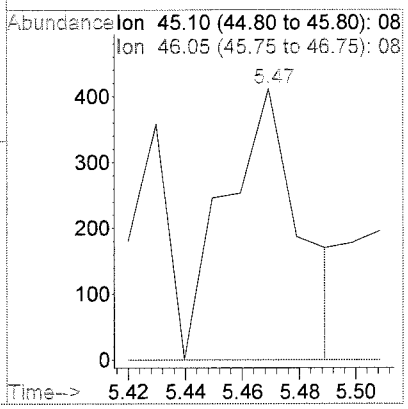


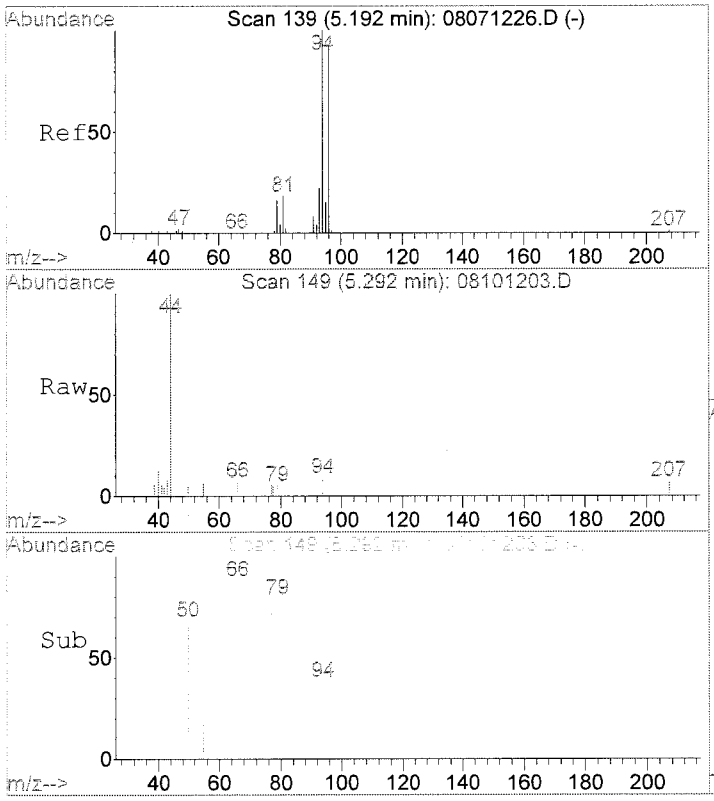


#2
Ethanol
Concen: 20.03 ug/L
RT: 5.47 min Scan# 167
Delta R.T. 0.07 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 748

Ion	Ratio	Lower	Upper
45	100		
46	26.2	18.6	58.6

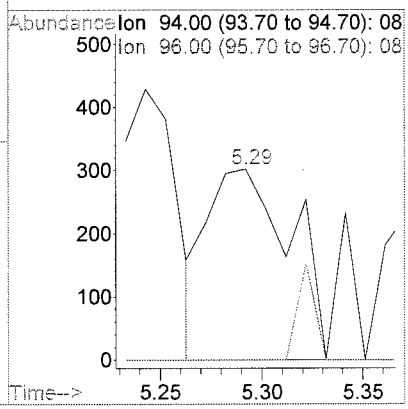


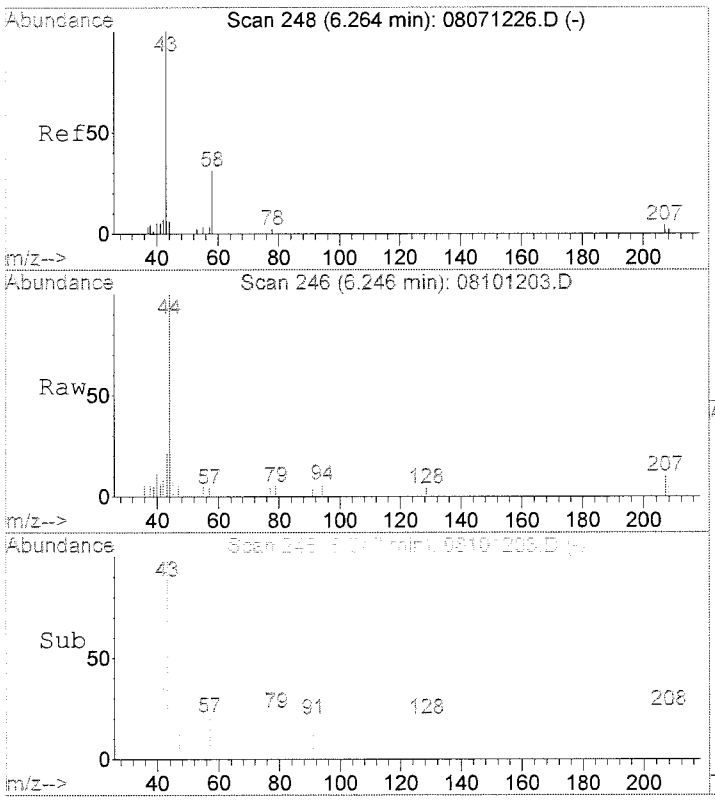


#9
Bromomethane
Concen: 0.15 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	73.6	110.4#

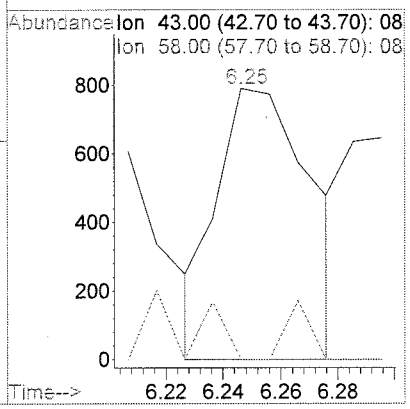


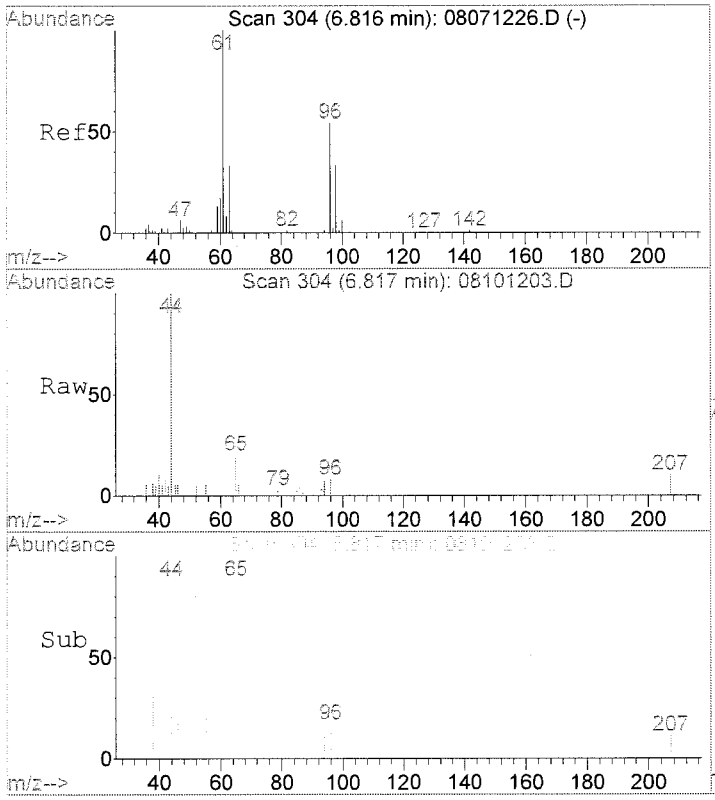


#12
Acetone
Concen: 1.44 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	19.5	29.3#

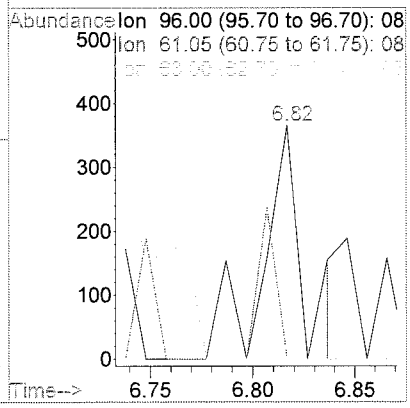


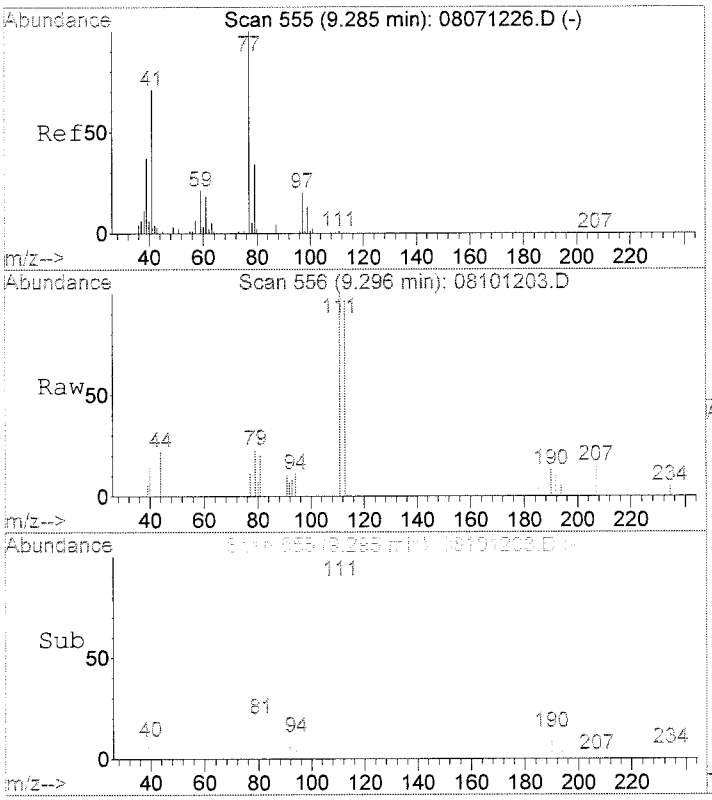


#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 6.82 min Scan# 304
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 96 Resp: 491

Ion	Ratio	Lower	Upper
96	100		
61	28.5	156.4	234.6#
63	0.0	51.6	77.4#

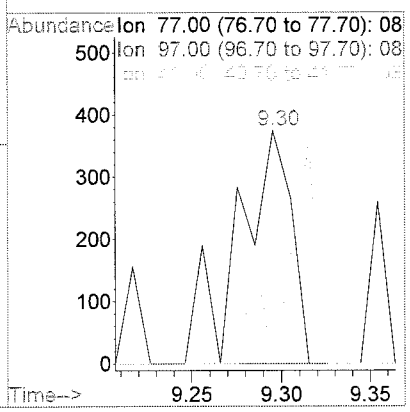


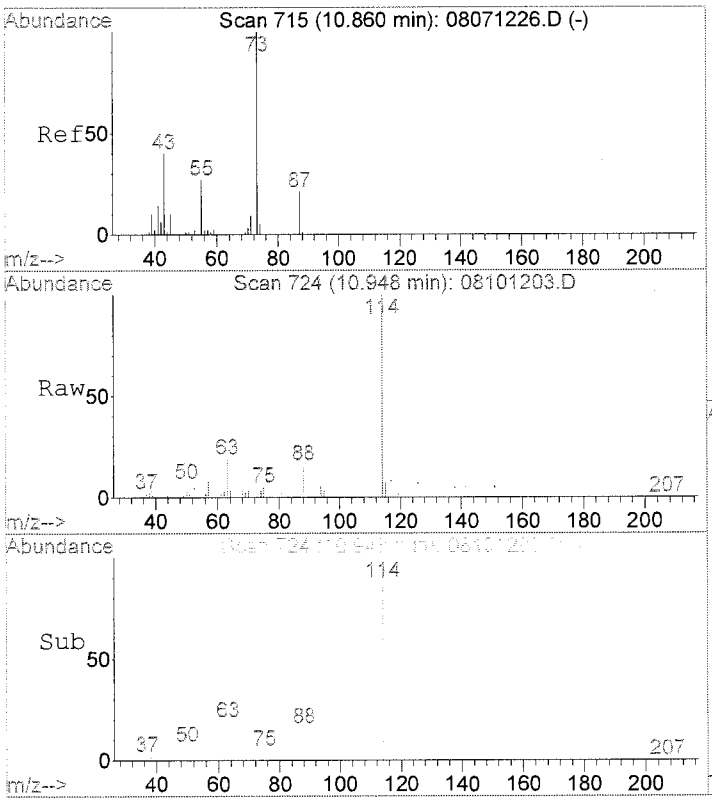


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.2	24.2#
41	52.9	85.4	128.2#

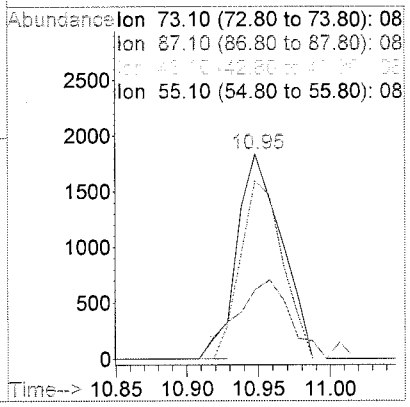


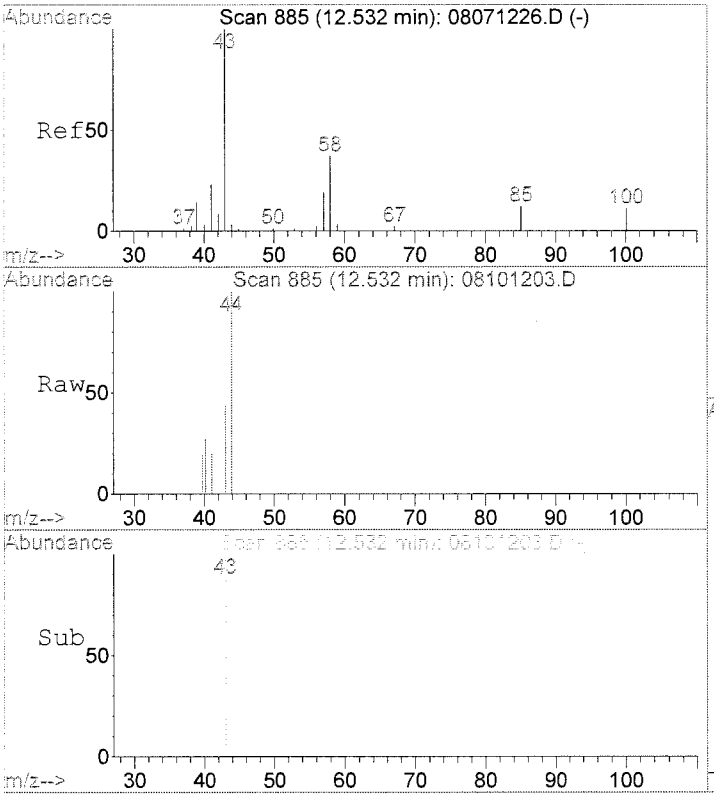


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	17.0	25.4#
43	5.7	32.2	48.4#
55	46.5	21.4	32.0#

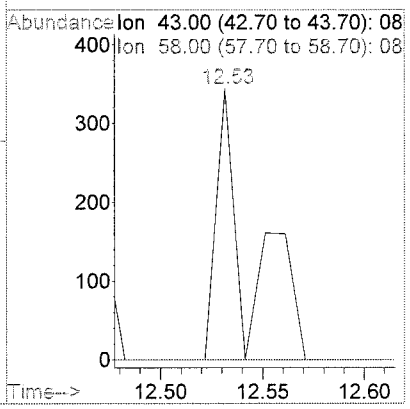


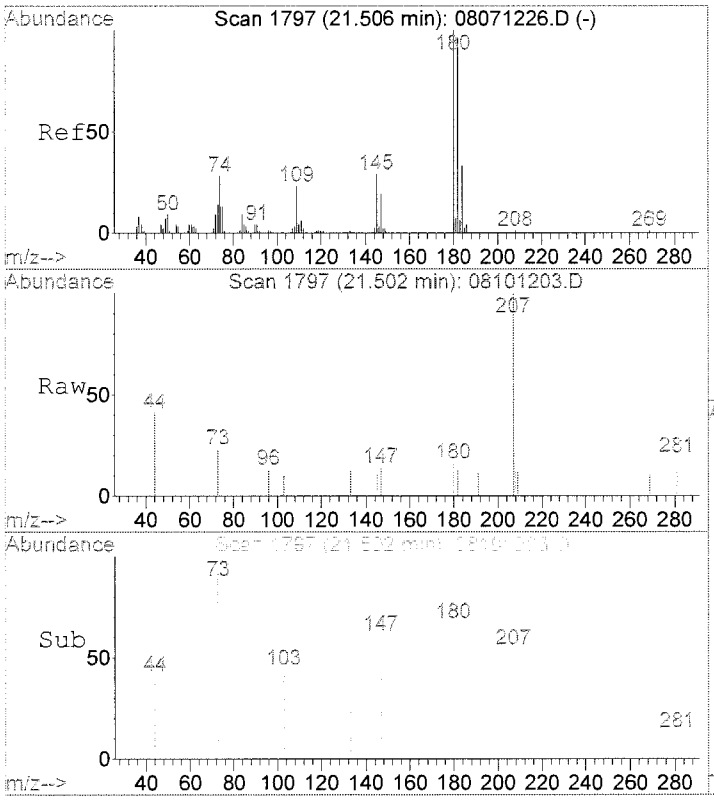


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.11 ug/L
RT: 12.53 min Scan# 885
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.5	42.7#

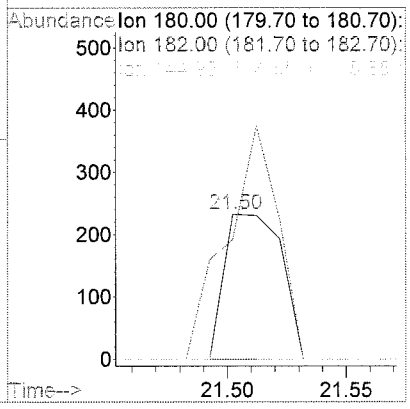


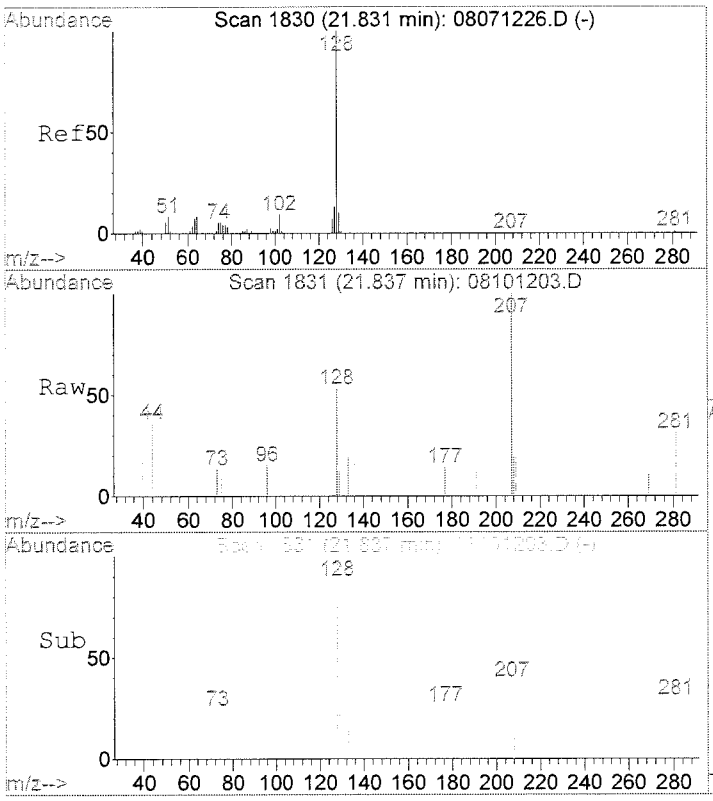


#83
1,2,4-Trichlorobenzene
Concen: 0.12 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	75.4	113.0#
145	25.5	21.9	32.9

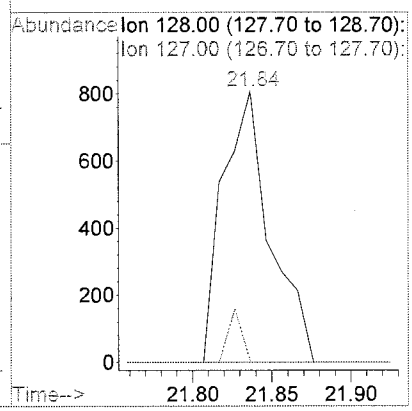




#84
Napthalene
Concen: 0.34 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

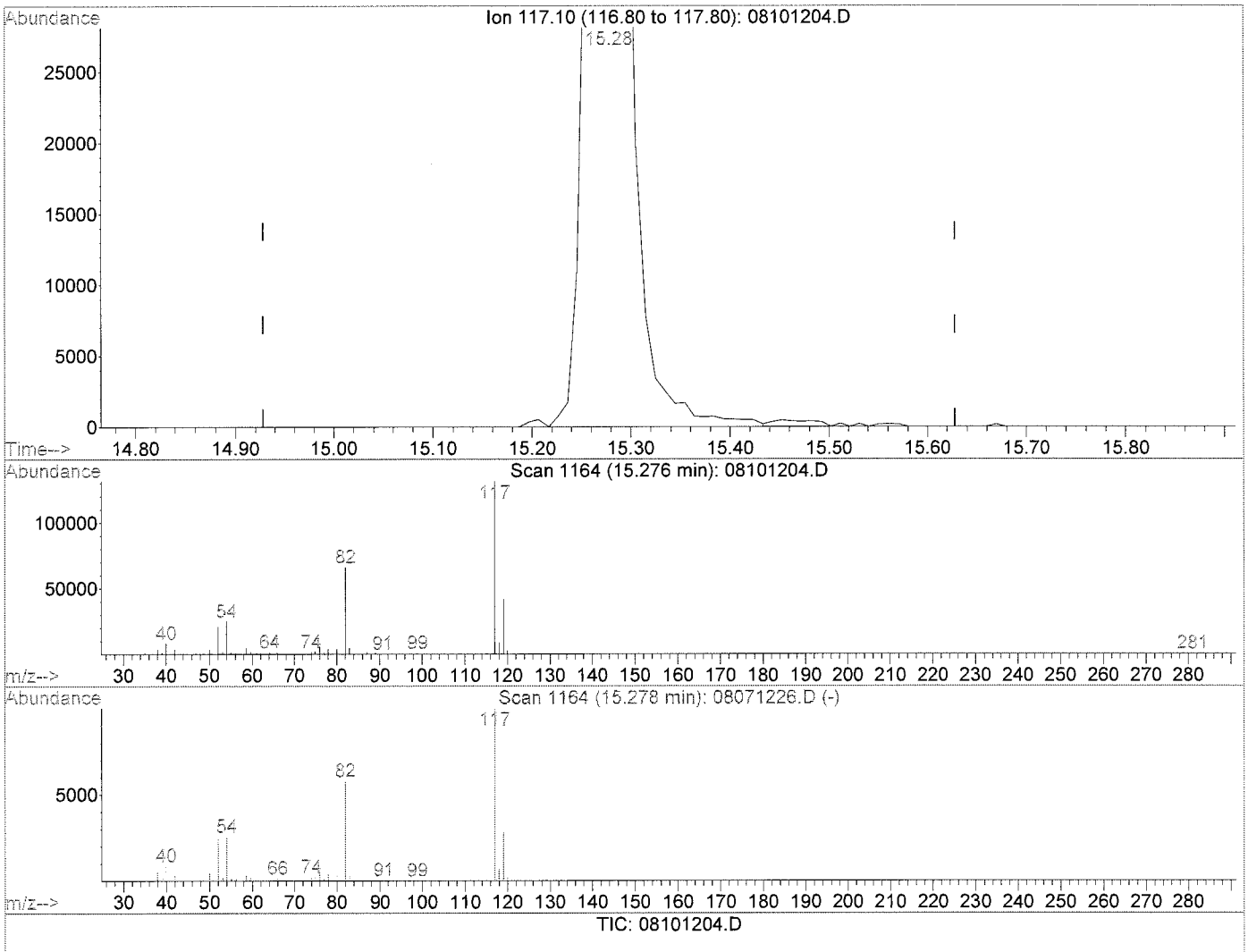
Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.2#



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

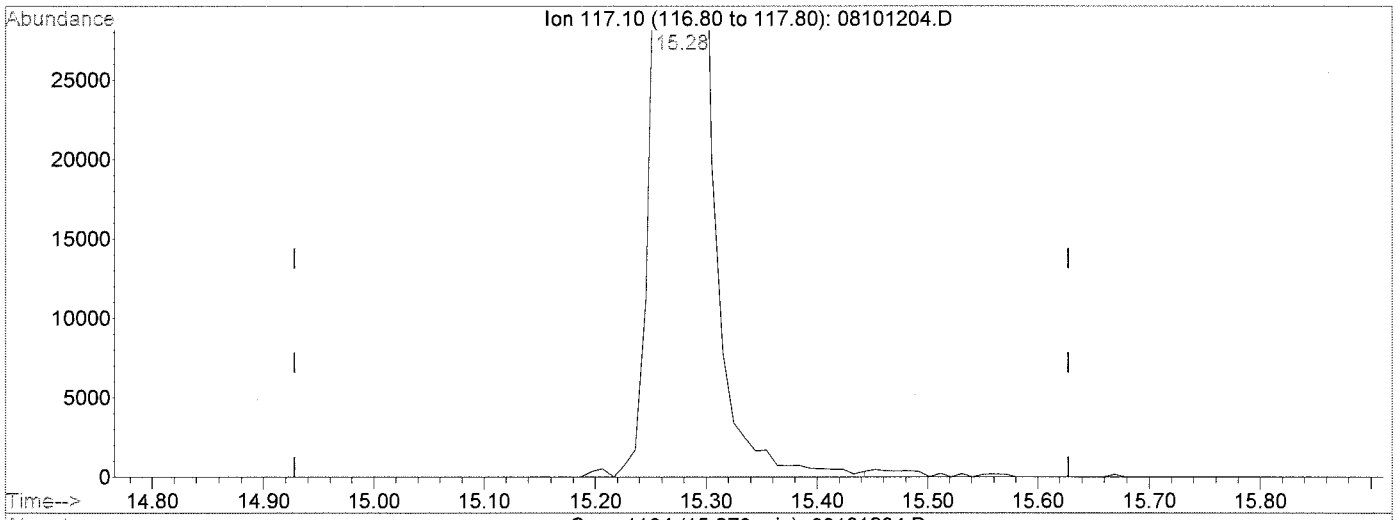
8/13/12

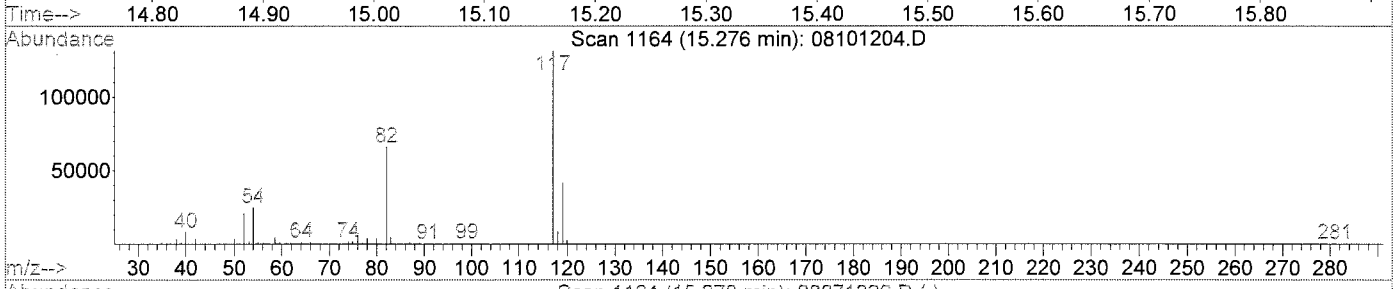
B CE MM 8/13/12

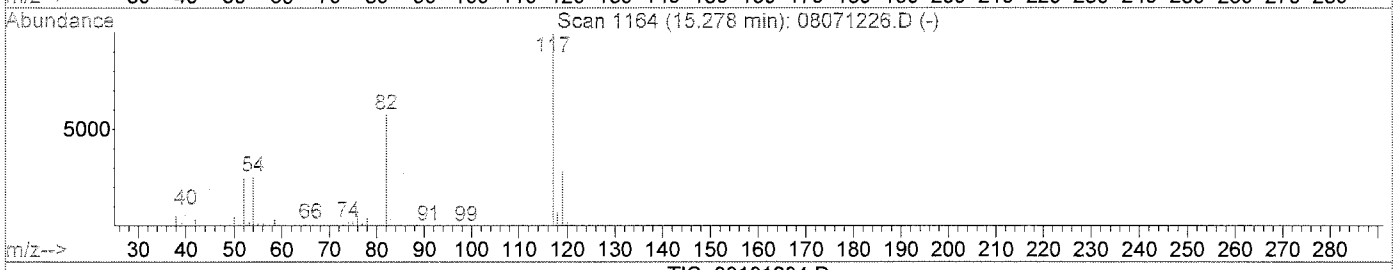
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285431

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285431m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.16%	
48) Toluene-d8	13.33	98	8308	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.36%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.20%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.55 ug/L	100
6) Chloromethane	4.35	50	5533	0.52 ug/L	95
7) Vinyl Chloride	4.63	62	5041	0.61 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.47 ug/L #	91
11) Trichlorofluoromethane	6.11	101	4136	0.47 ug/L	91
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.51 ug/L #	88
14) 1,1-Dichloroethene	6.81	96	3218	0.62 ug/L #	74
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	73
16) Freon 113	7.08	101	3192	0.55 ug/L	96
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	22
18) trans-1,2-Dichloroethene	7.86	96	3858	0.69 ug/L #	73
19) MTBE	8.01	73	4605	0.51 ug/L	99
20) 1,1-Dichloroethane	8.18	63	5100	0.53 ug/L #	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.57 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.54 ug/L #	84
25) cis-1,2-Dichloroethene	8.91	96	3145	0.63 ug/L #	77
26) Bromochloromethane	9.13	128	1212	0.58 ug/L	95
27) Chloroform	9.17	83	4473	0.54 ug/L #	86
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.55 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.41 ug/L #	92
33) 1,1,1-Trichloroethane	10.14	97	3906	0.55 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.63 ug/L #	91
36) 1,1-Dichloropropene	10.37	75	4256	0.53 ug/L #	76
37) Carbon Tetrachloride	10.60	117	3505	0.50 ug/L #	96
38) Benzene	10.66	78	10648	0.57 ug/L #	90
39) Dibromomethane	11.40	93	1079	0.48 ug/L	92
40) 1,2-Dichloropropane	11.43	63	2436	0.53 ug/L	88

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	2807	0.54 ug/L		98
42)	Bromodichloromethane	11.55	83	2375	0.41 ug/L	#	91
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d		
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.50 ug/L		88
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d		
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.75 ug/L	#	81
47)	1,1,2-Trichloroethane	13.17	97	939	0.36 ug/L	#	86
49)	Toluene	13.43	92	5962	0.60 ug/L	#	96
51)	1,3-Dichloropropane	13.49	76	2084	0.43 ug/L	#	85
52)	2-Hexanone	0.00	43	0	N.D. d		
53)	Dibromochloromethane	13.85	129	1416	0.40 ug/L		91
54)	1,2-Dibromoethane	14.18	107	1351	0.49 ug/L		96
55)	Tetrachloroethene	14.41	164	2667	0.57 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.55 ug/L	#	1
57)	Chlorobenzene	15.32	112	5746	0.57 ug/L		93
58)	Ethylbenzene	15.58	91	10303	0.56 ug/L		98
59)	m,p-Xylenes	15.84	106	3739	0.56 ug/L		90
60)	Styrene	16.30	104	5068	0.58 ug/L	#	90
61)	o-Xylene	16.40	106	3948	0.65 ug/L	#	89
64)	Bromoform	16.01	173	894	0.59 ug/L		91
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.54 ug/L	#	88
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	16.90	105	9688	0.59 ug/L		97
69)	Bromobenzene	17.24	156	2141	0.50 ug/L		90
70)	n-Propylbenzene	17.51	91	12373	0.59 ug/L		93
71)	2-Chlorotoluene	17.65	91	6496	0.53 ug/L		99
72)	4-Chlorotoluene	17.75	91	6322	0.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.57 ug/L		95
74)	tert-Butylbenzene	18.31	119	6960	0.60 ug/L		90
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.58 ug/L		91
76)	sec-Butylbenzene	18.61	105	11286	0.64 ug/L		94
77)	1,3-Dichlorobenzene	18.72	146	4471	0.62 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	4553	0.67 ug/L	#	89
79)	p-Isopropyltoluene	18.86	119	7691	0.59 ug/L	#	94
80)	1,2-Dichlorobenzene	19.28	146	3801	0.65 ug/L		96
81)	n-Butylbenzene	19.40	91	7498	0.62 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.66 ug/L	#	90
84)	Napthalene	21.83	128	3246	0.68 ug/L	#	75
85)	Hexachlorobutadiene	21.89	225	1870	0.72 ug/L	#	79
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.69 ug/L	#	82

9

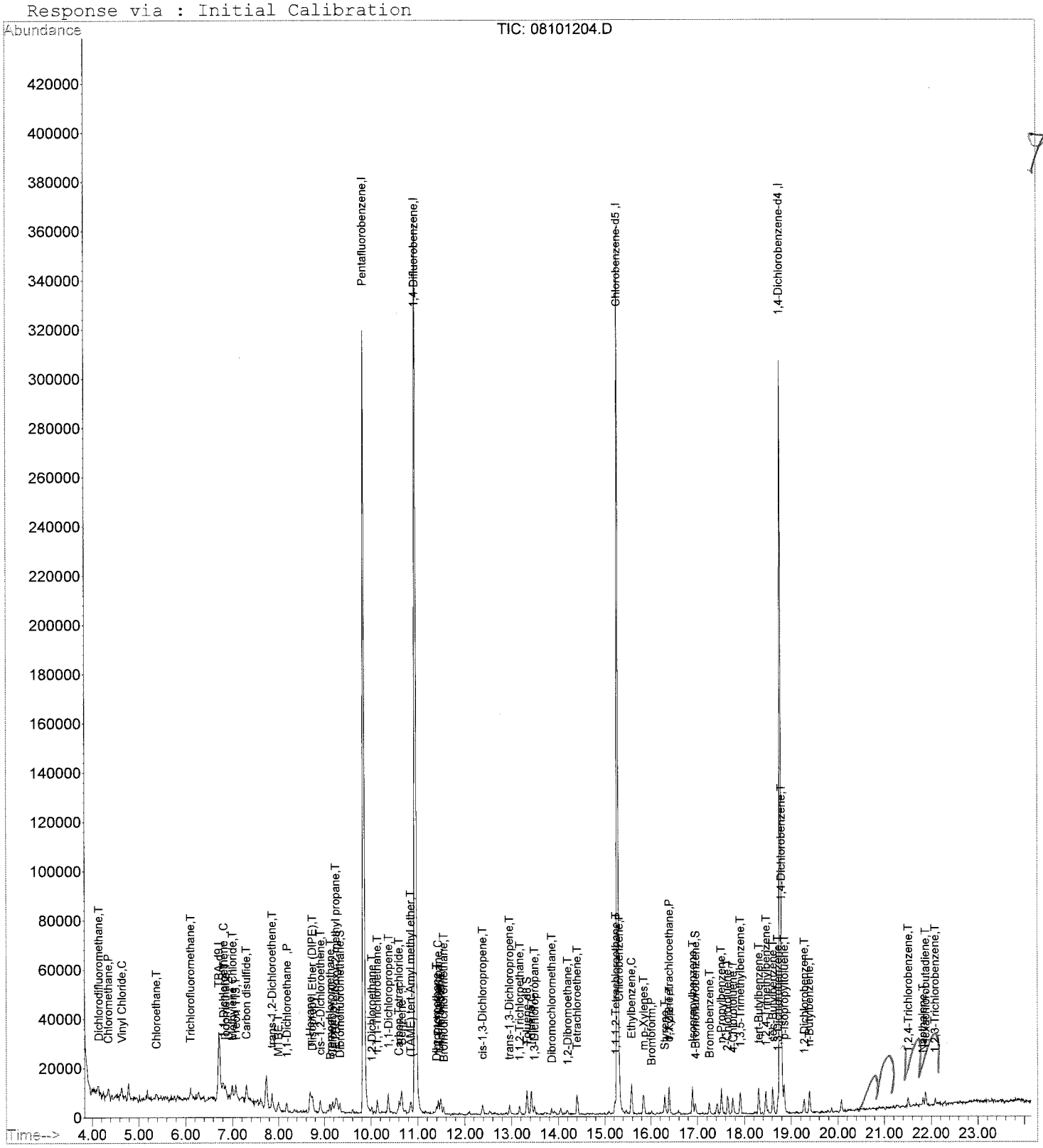
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

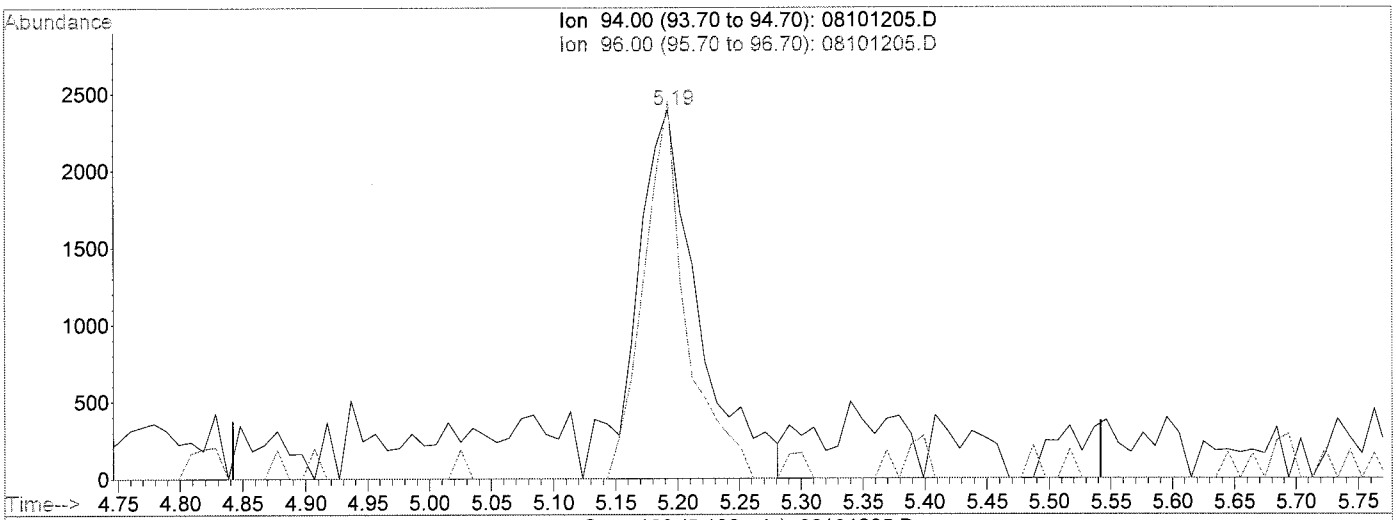
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

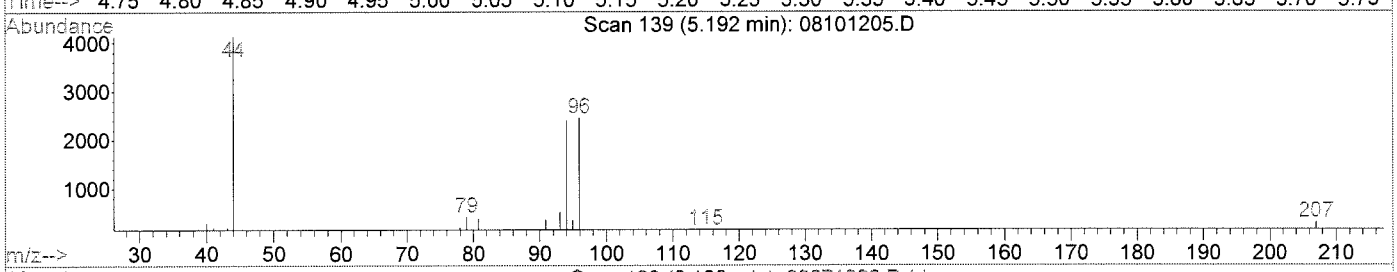


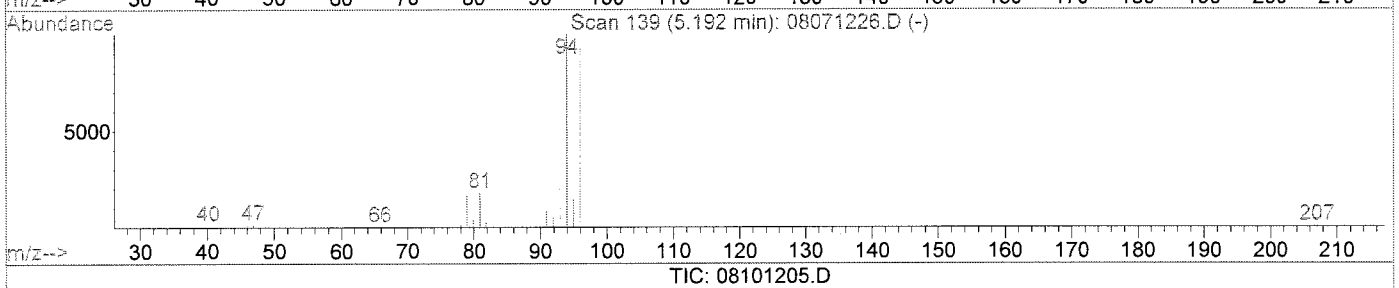
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.58ug/L

response 8343

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

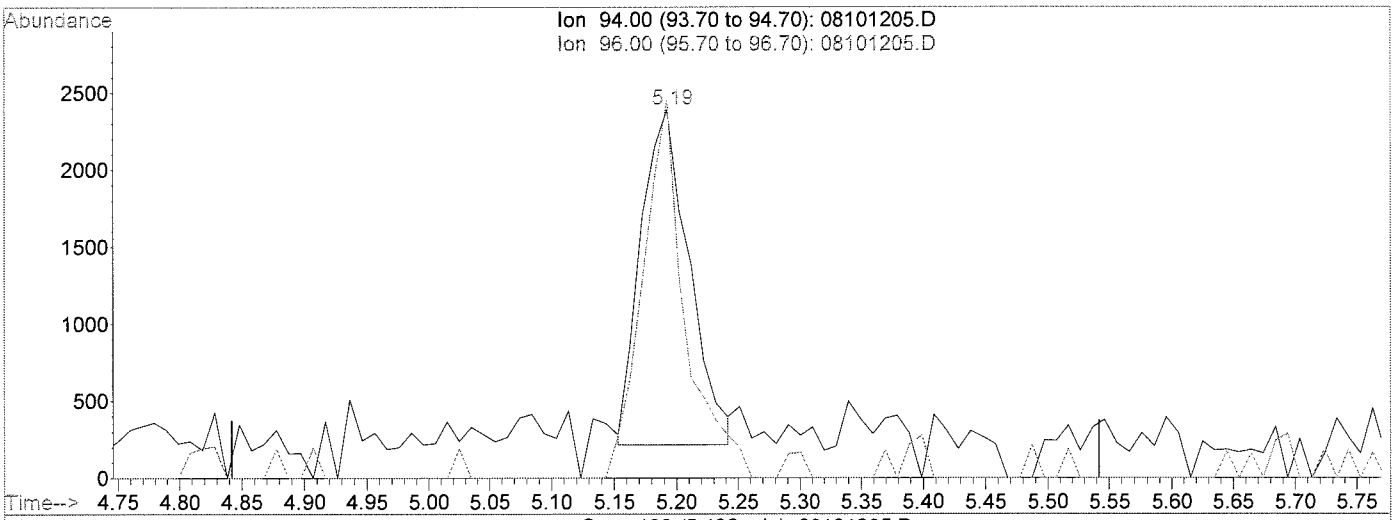
-8/13/12

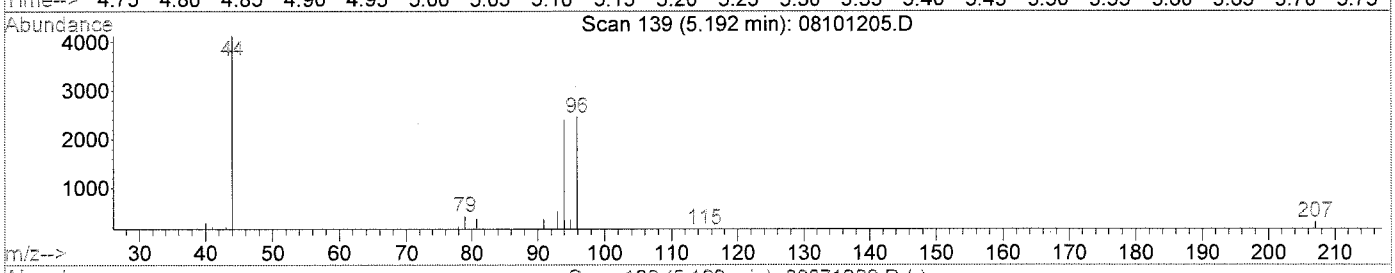
B
BL
mm 8/13/12

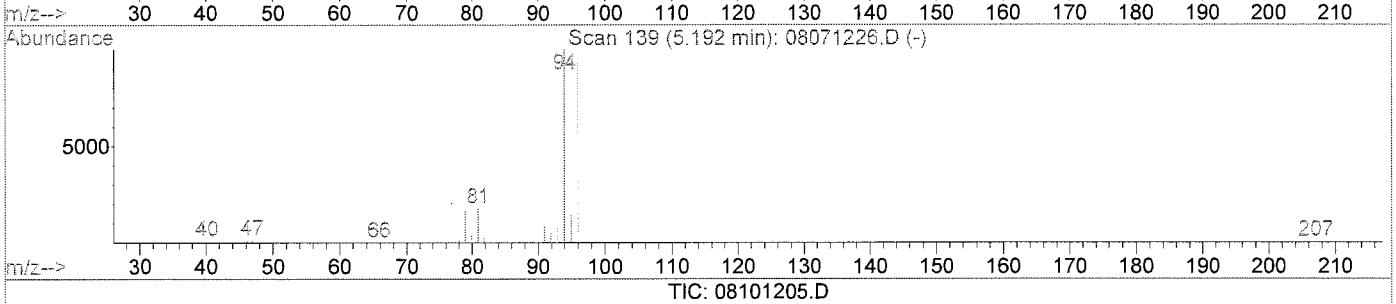
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.11ug/L m

response 5854

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	100.12
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

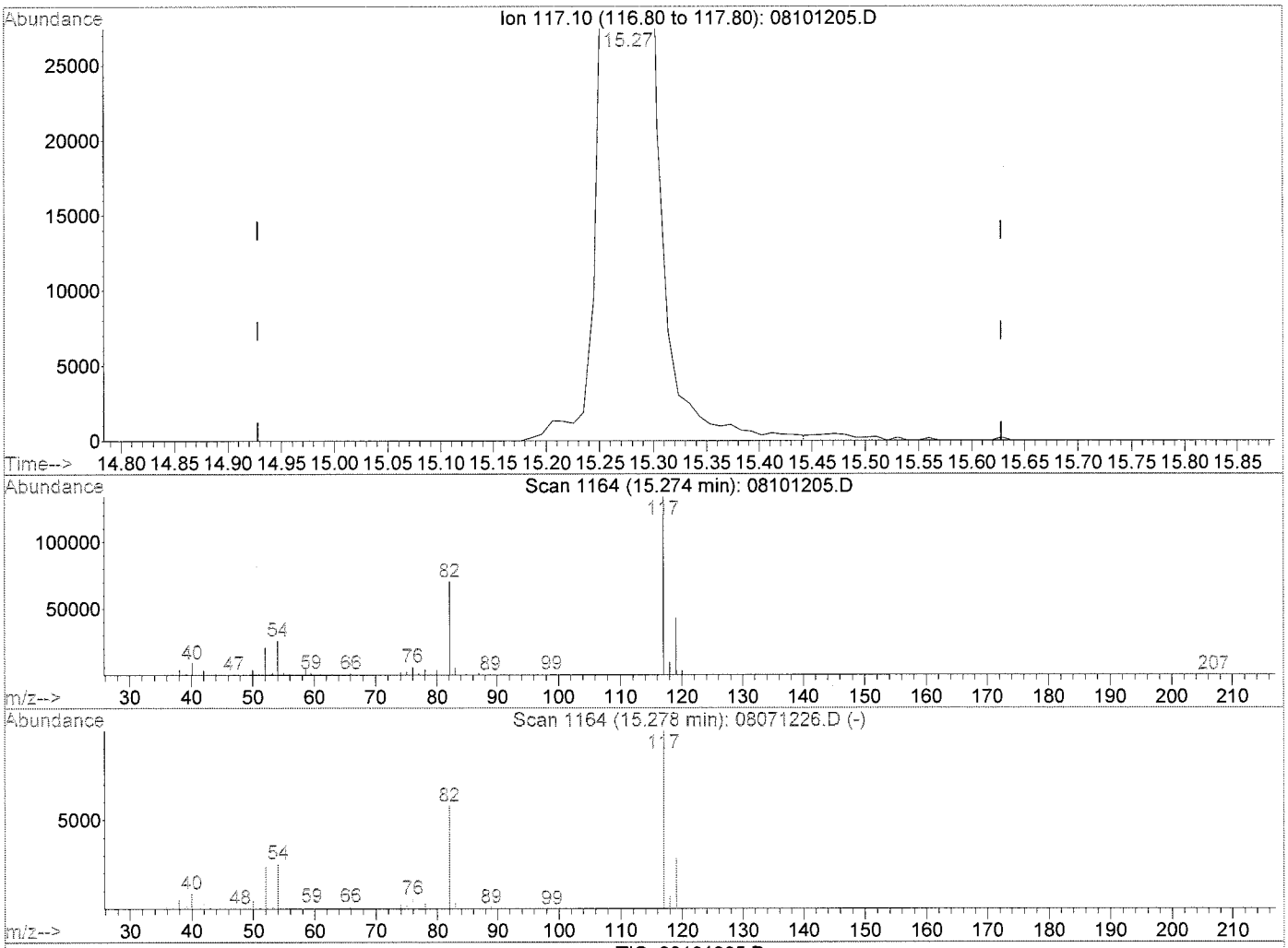
A

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

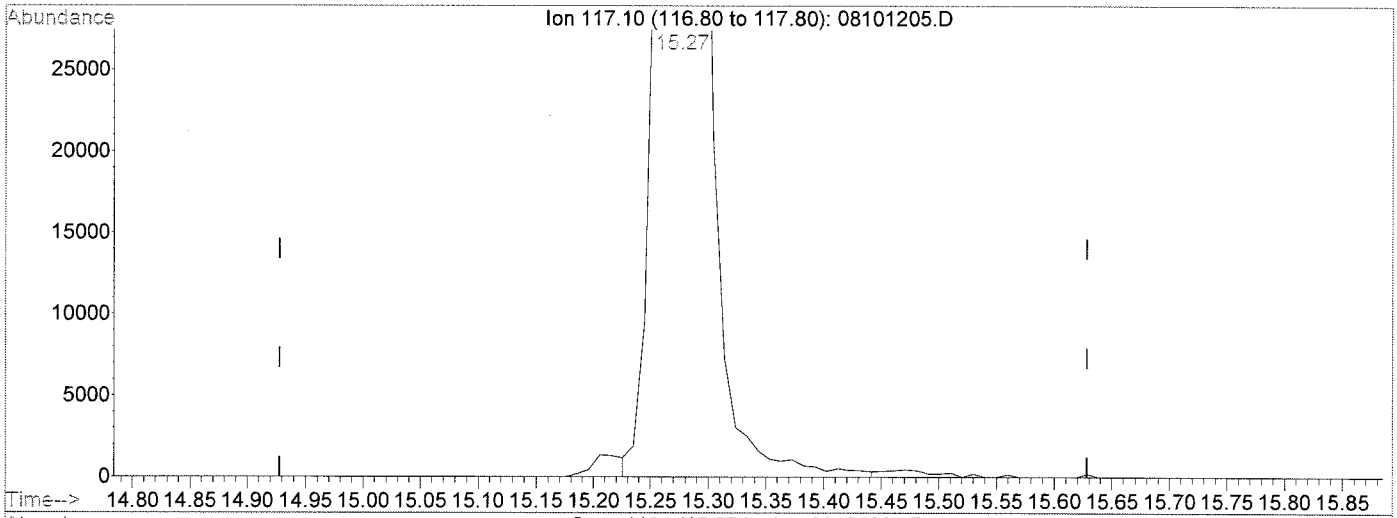
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

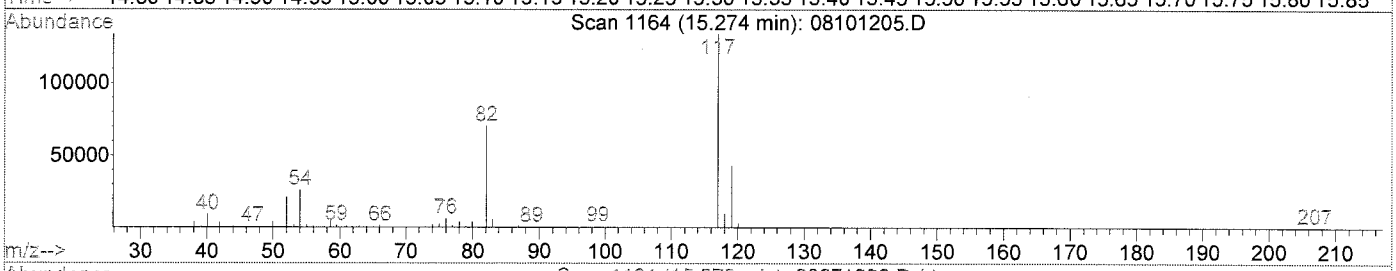
B CE mm 8/13/12

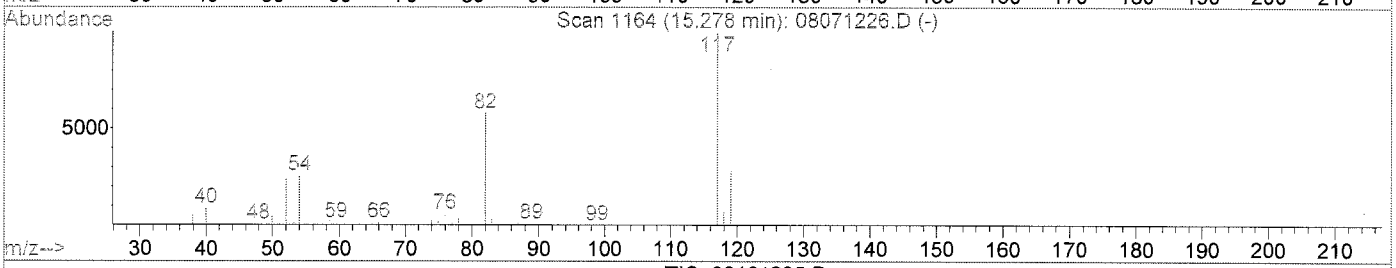
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 289717

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	~~Dev~~(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	289717m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.76%	
48) Toluene-d8	13.33	98	15044	1.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.08%	
62) 4-Bromofluorobenzene	16.96	95	4337	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.06 ug/L	99
6) Chloromethane	4.36	50	11345	1.09 ug/L	100
7) Vinyl Chloride	4.63	62	9613	1.17 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	1.02 ug/L #	77
9) Bromomethane	5.19	94	5854m	1.11 ug/L	
10) Chloroethane	5.38	64	4474	0.99 ug/L #	77
11) Trichlorofluoromethane	6.11	101	8147	0.94 ug/L	94
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.10 ug/L	92
14) 1,1-Dichloroethene	6.82	96	6624	1.30 ug/L #	60
15) Methylene Chloride	6.99	84	5669	1.12 ug/L #	80
16) Freon 113	7.06	101	5907	1.03 ug/L	94
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	97
18) trans-1,2-Dichloroethene	7.86	96	6803	1.23 ug/L	82
19) MTBE	8.00	73	9909	1.11 ug/L	95
20) 1,1-Dichloroethane	8.18	63	10543	1.12 ug/L	98
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.31 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.15 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	6451	1.32 ug/L	87
26) Bromochloromethane	9.12	128	2129	1.03 ug/L	91
27) Chloroform	9.18	83	8439	1.04 ug/L #	86
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.08 ug/L #	90
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	0.98 ug/L	95
33) 1,1,1-Trichloroethane	10.14	97	6935	0.98 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	1.10 ug/L #	92
36) 1,1-Dichloropropene	10.38	75	8845	1.05 ug/L	97
37) Carbon Tetrachloride	10.61	117	6413	0.87 ug/L	95
38) Benzene	10.66	78	20457	1.05 ug/L #	90
39) Dibromomethane	11.39	93	2452	1.04 ug/L	91
40) 1,2-Dichloropropane	11.44	63	5094	1.07 ug/L #	84

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.99 ug/L	92
42)	Bromodichloromethane	11.56	83	5117	0.86 ug/L #	95
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.98 ug/L #	88
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	0.98 ug/L	99
46)	trans-1,3-Dichloropropene	12.96	75	4943	1.19 ug/L #	84
47)	1,1,2-Trichloroethane	13.17	97	2959	1.08 ug/L	87
49)	Toluene	13.42	92	10896	1.05 ug/L #	96
51)	1,3-Dichloropropane	13.49	76	5303	1.07 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.95 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	1.03 ug/L	99
55)	Tetrachloroethene	14.41	164	4967	1.04 ug/L	92
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.97 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	1.06 ug/L	88
58)	Ethylbenzene	15.58	91	20863	1.12 ug/L	97
59)	m,p-Xylenes	15.84	106	7380	1.10 ug/L	98
60)	Styrene	16.30	104	9553	1.09 ug/L #	93
61)	o-Xylene	16.40	106	7004	1.14 ug/L	92
64)	Bromoform	16.02	173	1913	1.04 ug/L	96
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	1.03 ug/L #	98
66)	1,2,3-Trichloropropane	16.58	110	765	0.92 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	1.05 ug/L	99
69)	Bromobenzene	17.25	156	4047	0.92 ug/L	98
70)	n-Propylbenzene	17.51	91	22751	1.06 ug/L	95
71)	2-Chlorotoluene	17.65	91	12533	1.00 ug/L	95
72)	4-Chlorotoluene	17.75	91	12326	1.04 ug/L	100
73)	1,3,5-Trimethylbenzene	17.91	105	13867	1.05 ug/L	97
74)	tert-Butylbenzene	18.30	119	12547	1.05 ug/L	88
75)	1,2,4-Trimethylbenzene	18.46	105	13204	1.06 ug/L	98
76)	sec-Butylbenzene	18.61	105	19700	1.09 ug/L	95
77)	1,3-Dichlorobenzene	18.72	146	7952	1.07 ug/L	96
78)	1,4-Dichlorobenzene	18.81	146	7762	1.11 ug/L #	92
79)	p-Isopropyltoluene	18.85	119	15724	1.17 ug/L	96
80)	1,2-Dichlorobenzene	19.28	146	6825	1.13 ug/L	93
81)	n-Butylbenzene	19.40	91	14669	1.18 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.98 ug/L #	84
84)	Napthalene	21.83	128	6316	1.29 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.97 ug/L	99
86)	1,2,3-Trichlorobenzene	22.09	180	2981	1.11 ug/L	92

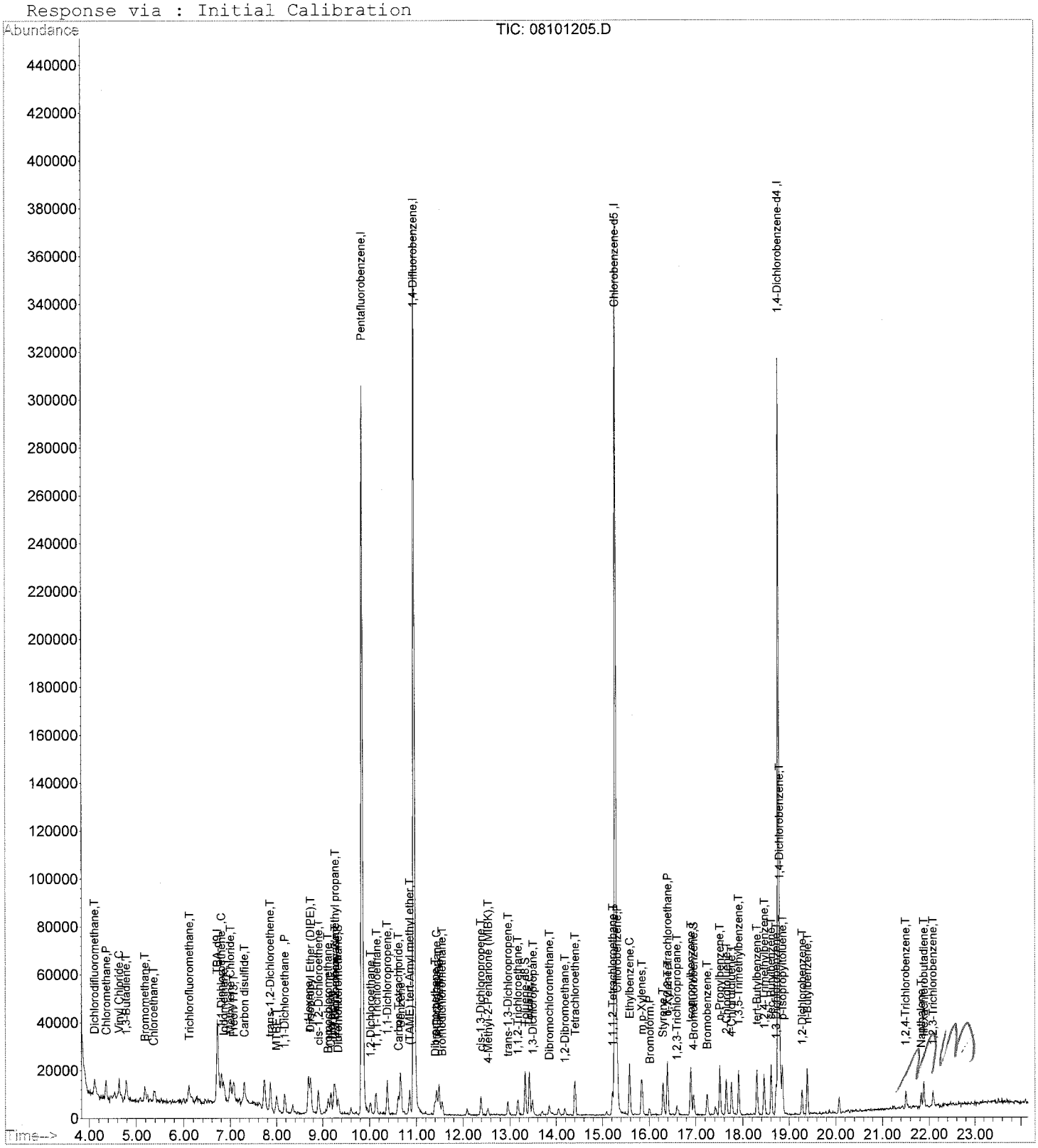
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

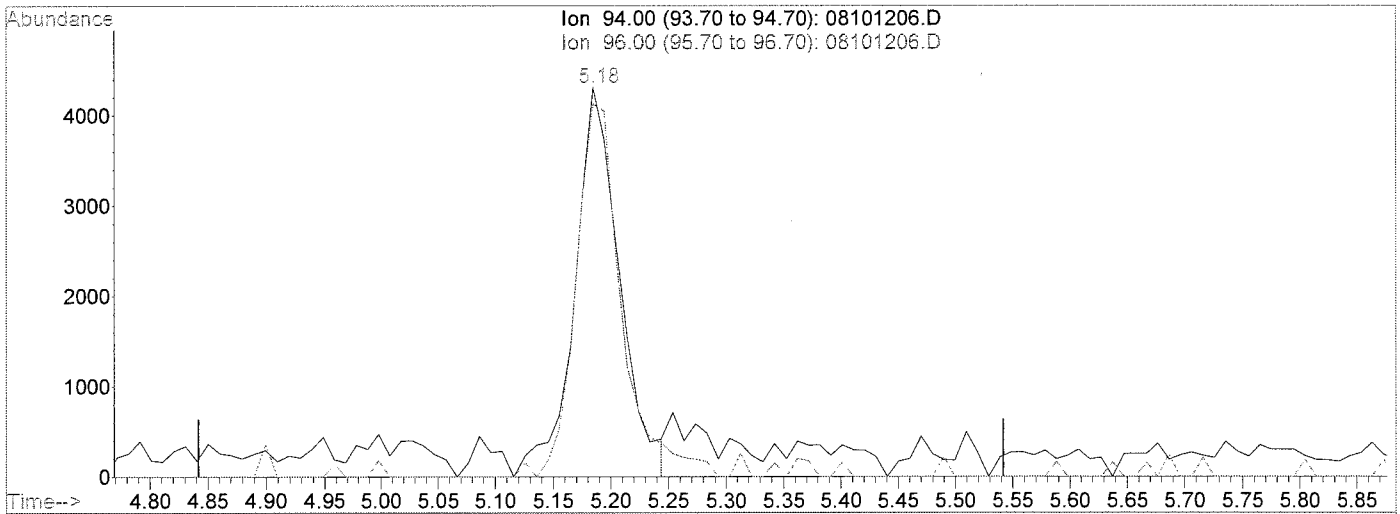
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

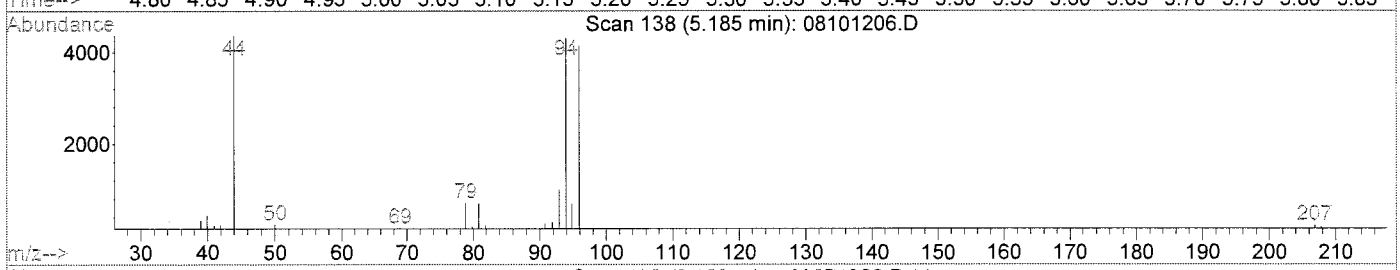


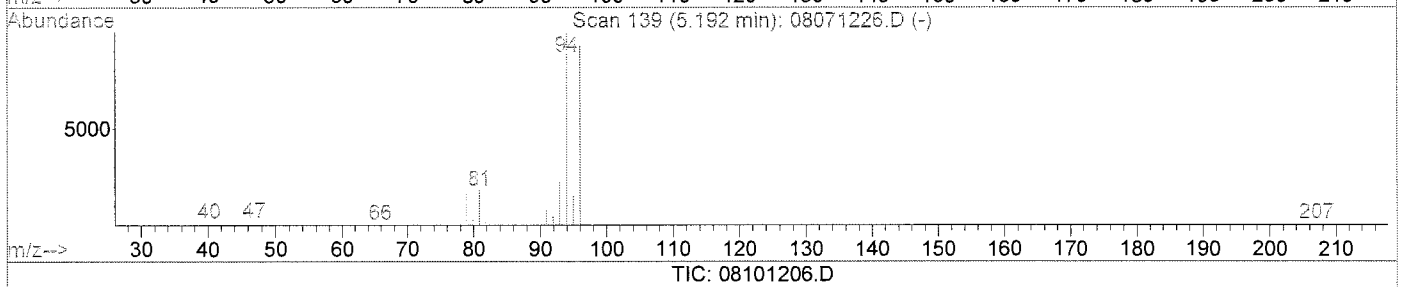
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.25ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

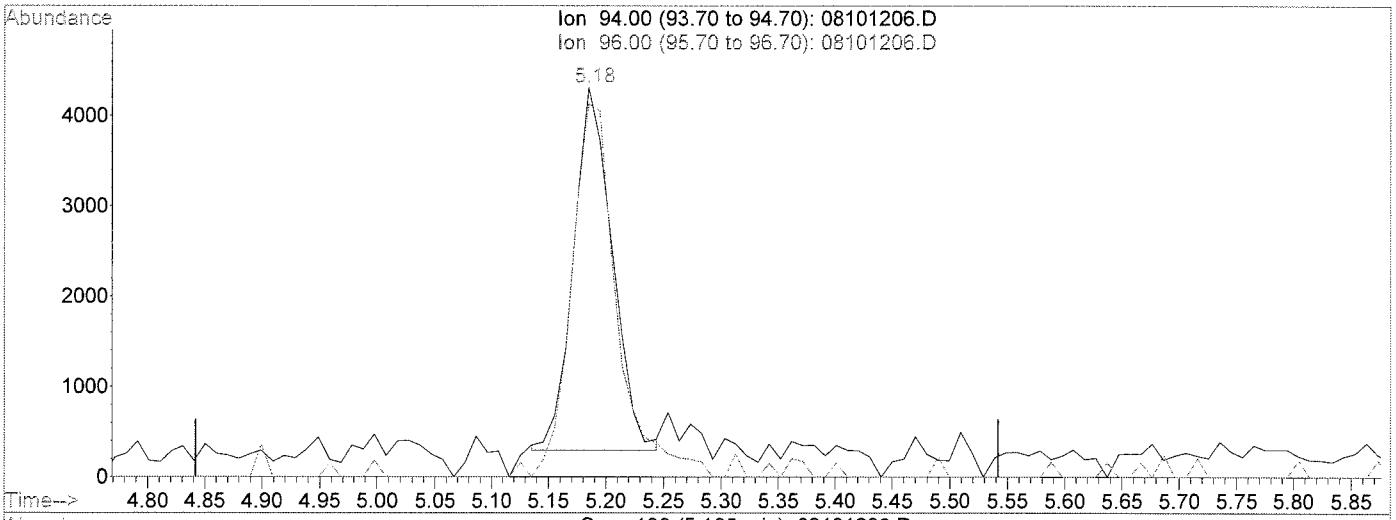
BL

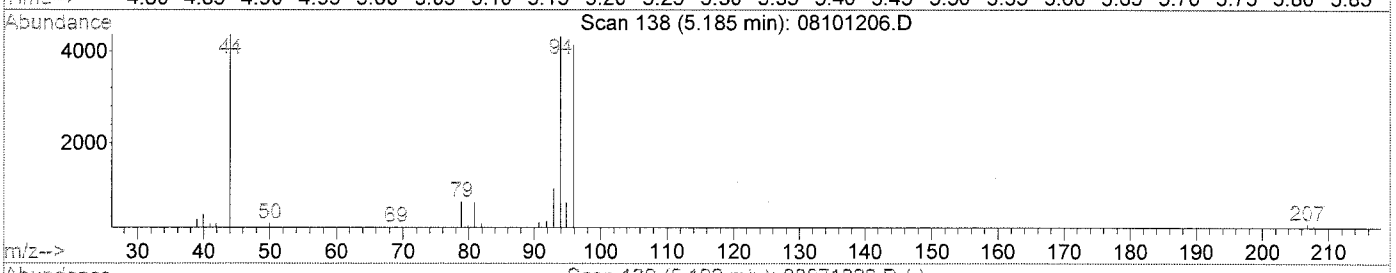
MM 8/13/12

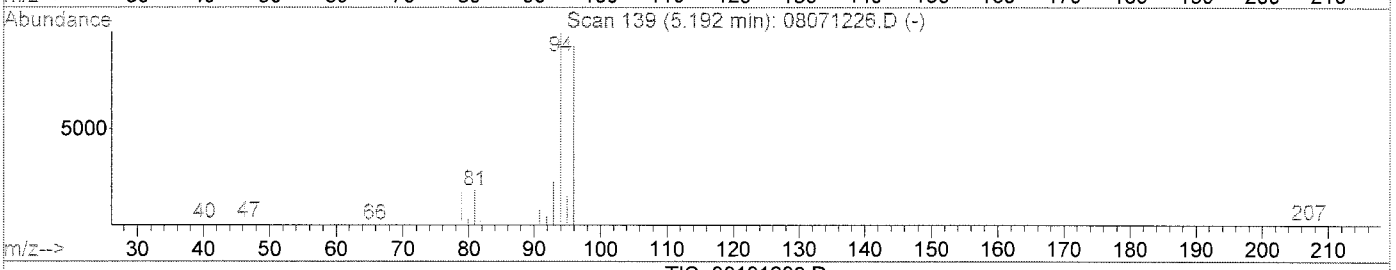
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.81ug/L m

response 9480

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	122.20#
0.00	0.00	0.00
0.00	0.00	0.00

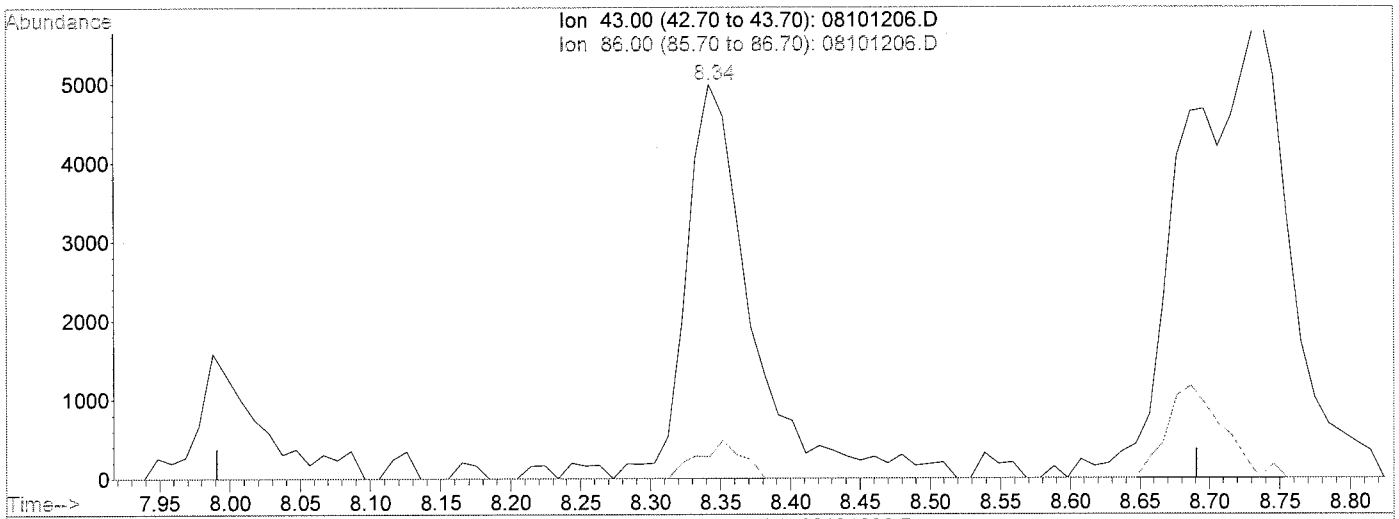
A

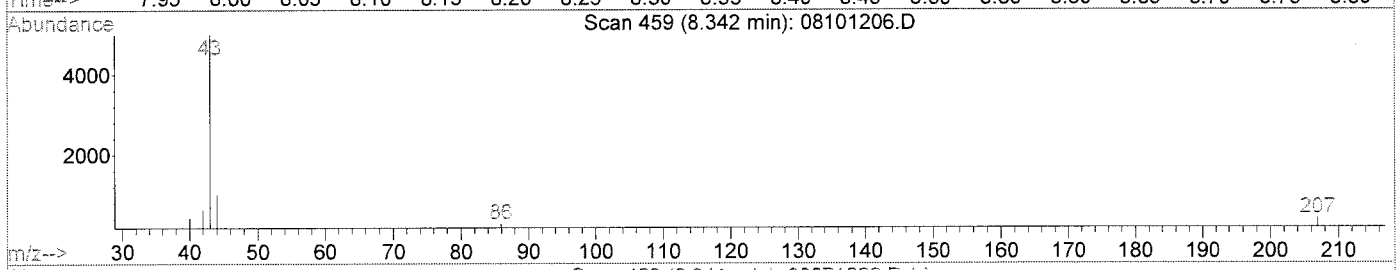
MM 8/13/12

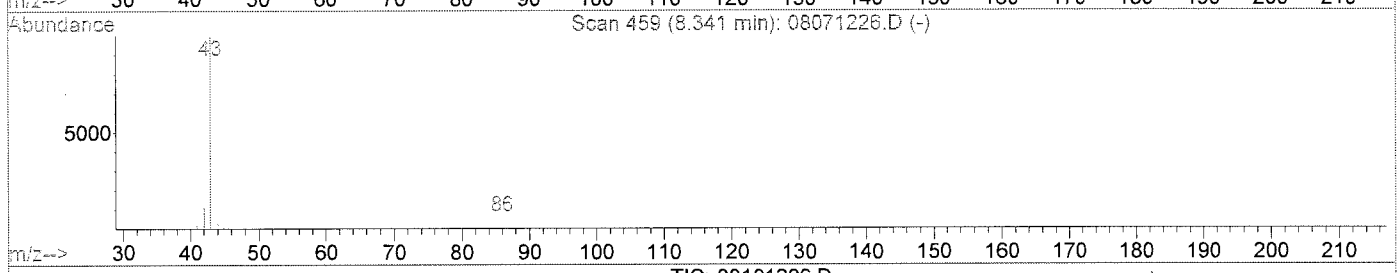
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

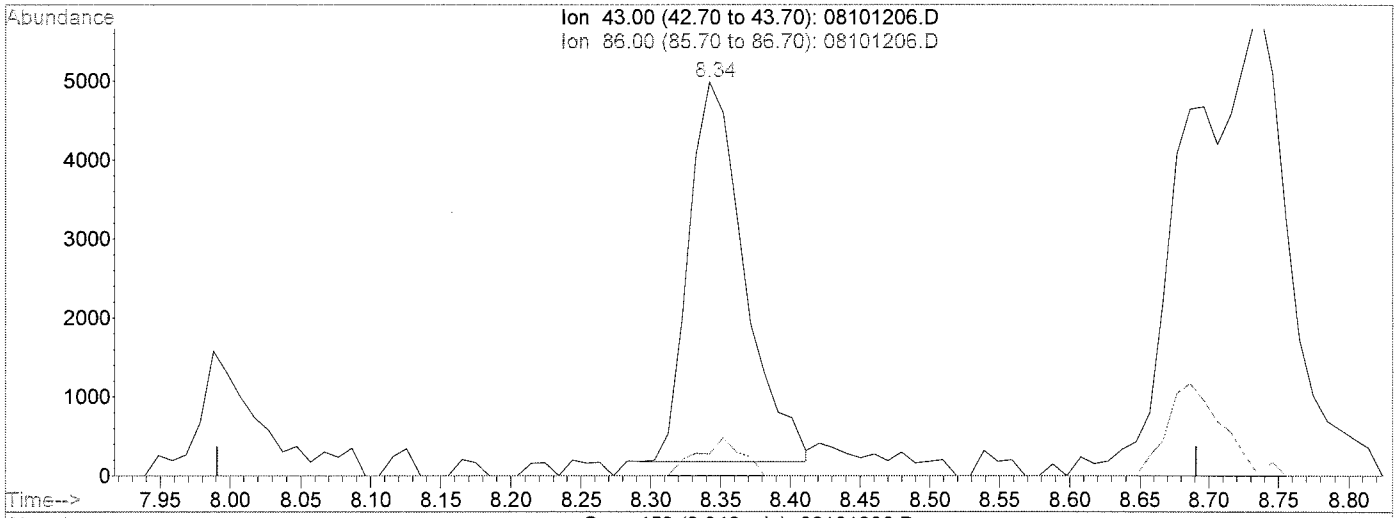
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	6.41
0.00	0.00	0.00
0.00	0.00	0.00

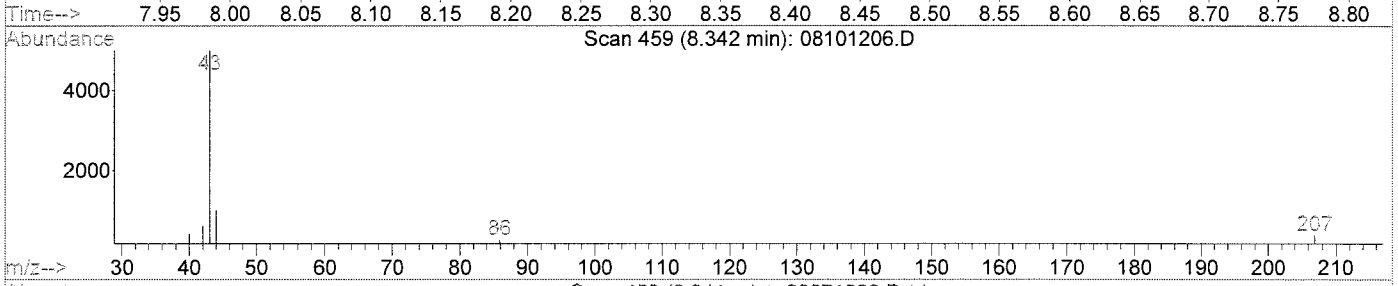
B
BL
MM 8/13/12

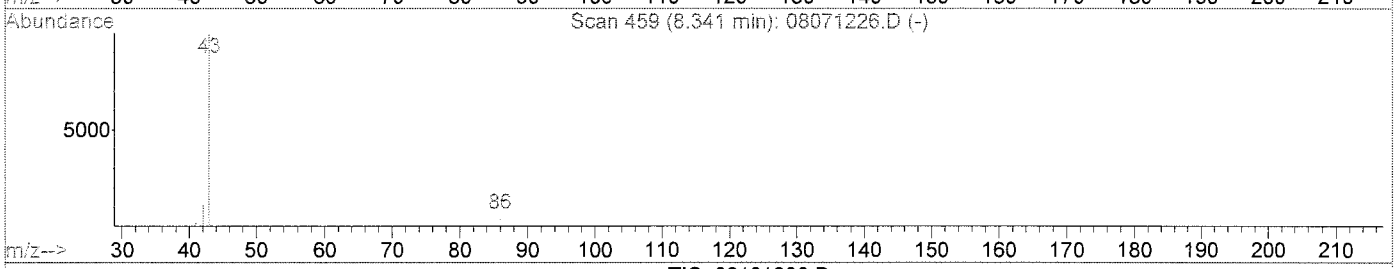
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 1.84ug/L m

response 13334

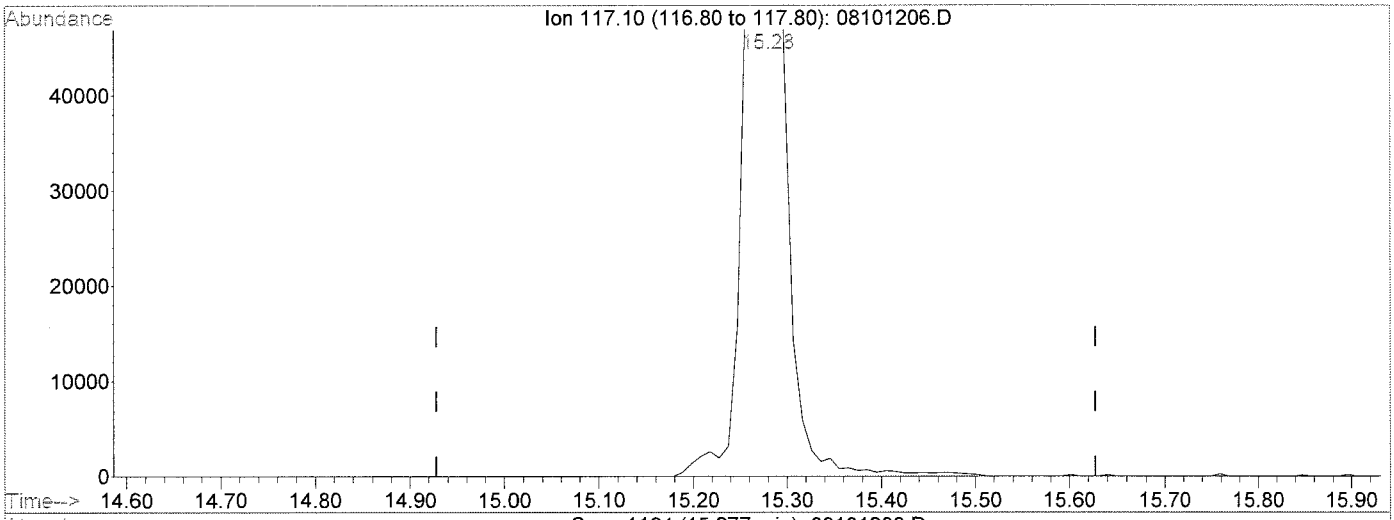
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	7.85#
0.00	0.00	0.00
0.00	0.00	0.00

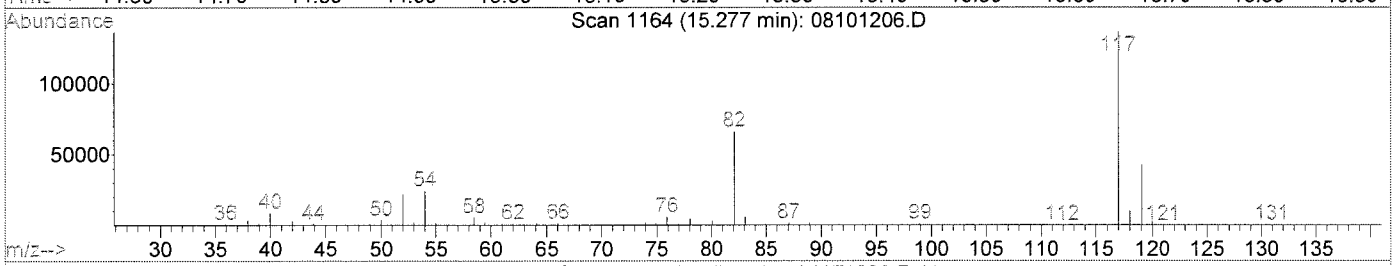
A
MM 8/13/12

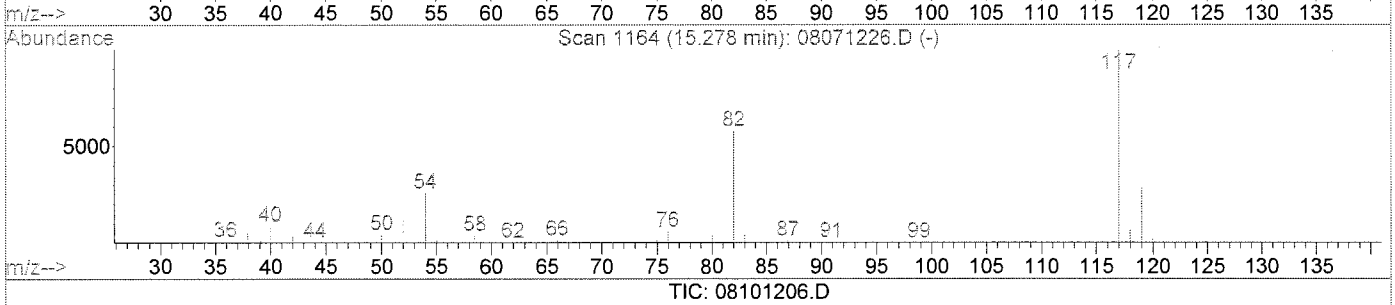
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

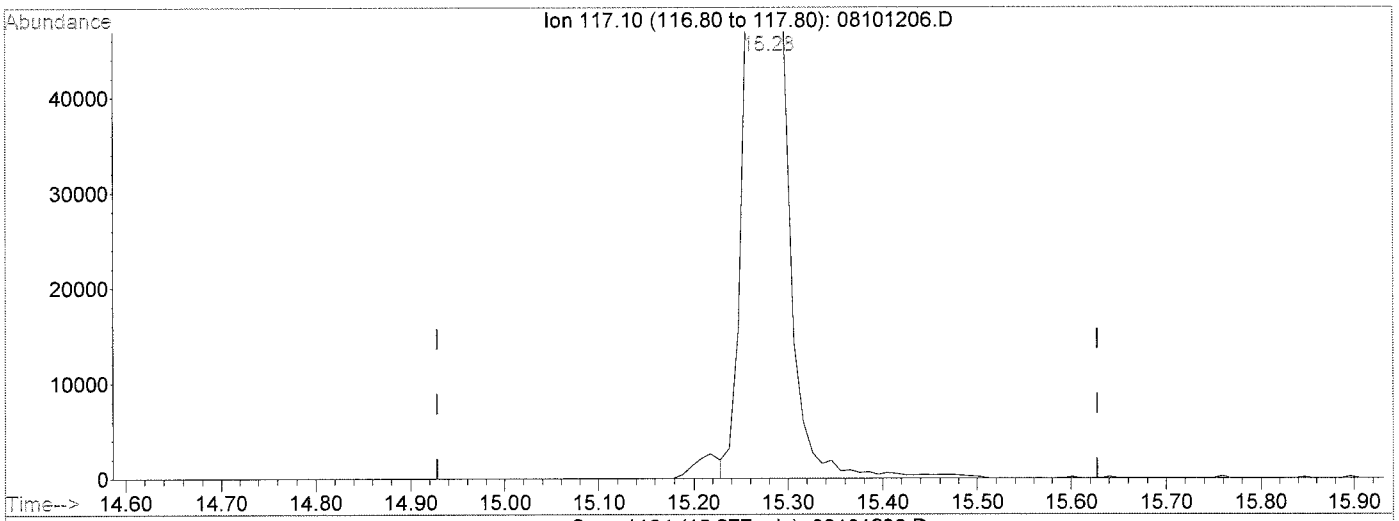
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

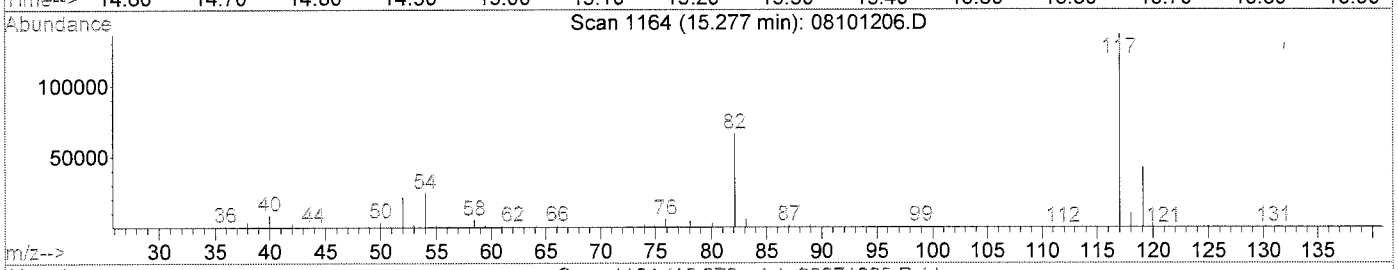
B 8/13/12
CE MM 8/13/12

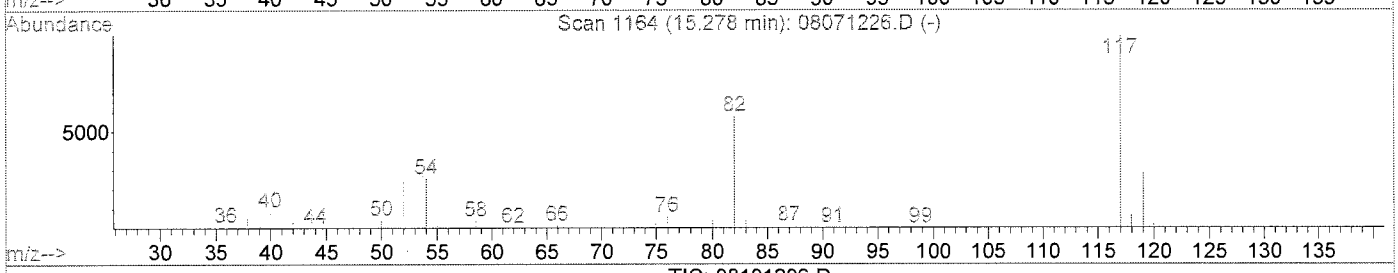
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293333

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293333m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 10.24%	
48) Toluene-d8	13.33	98	34659	2.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 9.76%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.21 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 8.84%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.87 ug/L	99
5) Dichlorodifluoromethane	4.11	85	19360	1.94 ug/L	89
6) Chloromethane	4.35	50	19442	1.89 ug/L	100
7) Vinyl Chloride	4.62	62	18295	2.26 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	2.03 ug/L	96
9) Bromomethane	5.18	94	9480m	1.81 ug/L	
10) Chloroethane	5.39	64	9047	2.02 ug/L #	88
11) Trichlorofluoromethane	6.12	101	15106	1.76 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.11 ug/L	91
14) 1,1-Dichloroethene	6.81	96	11692	2.32 ug/L #	73
15) Methylene Chloride	6.99	84	10706	2.13 ug/L #	82
16) Freon 113	7.06	101	11837	2.10 ug/L	96
17) Carbon disulfide	7.30	76	34510	1.87 ug/L #	43
18) trans-1,2-Dichloroethene	7.86	96	12894	2.36 ug/L	91
19) MTBE	8.00	73	18479	2.09 ug/L	95
20) 1,1-Dichloroethane	8.18	63	21203	2.28 ug/L	99
21) Vinyl Acetate	8.34	43	13334m	1.84 ug/L	
22) n-Hexane	8.69	86	3282	2.54 ug/L	72
23) 2-Butanone (MEK)	8.74	72	770	2.37 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.28 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	11373	2.35 ug/L	85
26) Bromochloromethane	9.12	128	4731	2.32 ug/L	94
27) Chloroform	9.17	83	18252	2.26 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.12 ug/L #	76
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.22 ug/L	94
31) Tetrahydrofuran	9.60	72	942	2.91 ug/L #	68
32) 1,2-Dichloroethane	10.01	62	9458	2.01 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	14552	2.09 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	19881	2.24 ug/L #	93
36) 1,1-Dichloropropene	10.37	75	16300	2.01 ug/L	96
37) Carbon Tetrachloride	10.60	117	11980	1.68 ug/L	94
38) Benzene	10.66	78	39625	2.11 ug/L #	89
39) Dibromomethane	11.39	93	4623	2.04 ug/L	94
40) 1,2-Dichloropropane	11.44	63	9870	2.15 ug/L #	84

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.27 ug/L		94
42)	Bromodichloromethane	11.55	83	10648	1.84 ug/L	#	98
43)	2-Chlorovinylethylether	12.09	63	3450	2.67 ug/L	#	89
44)	cis-1,3-Dichloropropene	12.38	75	12256	2.05 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	1.78 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.95 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	5725	2.16 ug/L	#	88
49)	Toluene	13.42	92	23415	2.33 ug/L	#	97
51)	1,3-Dichloropropane	13.49	76	9548	1.91 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.69 ug/L	#	94
53)	Dibromochloromethane	13.85	129	6760	1.86 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.28 ug/L		94
55)	Tetrachloroethene	14.41	164	9734	2.02 ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.95 ug/L		95
57)	Chlorobenzene	15.33	112	23737	2.31 ug/L		99
58)	Ethylbenzene	15.58	91	37962	2.02 ug/L		94
59)	m,p-Xylenes	15.85	106	14006	2.05 ug/L		99
60)	Styrene	16.30	104	19695	2.21 ug/L		93
61)	o-Xylene	16.40	106	12771	2.06 ug/L		98
64)	Bromoform	16.01	173	3623	1.87 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	2.10 ug/L	#	98
66)	1,2,3-Trichloropropane	16.59	110	1480	1.84 ug/L		92
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	3.09 ug/L	#	80
68)	Isopropylbenzene	16.90	105	35158	2.14 ug/L		100
69)	Bromobenzene	17.24	156	8795	2.07 ug/L		92
70)	n-Propylbenzene	17.51	91	42873	2.06 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.13 ug/L		92
72)	4-Chlorotoluene	17.76	91	23403	2.04 ug/L		95
73)	1,3,5-Trimethylbenzene	17.91	105	28001	2.19 ug/L		98
74)	tert-Butylbenzene	18.31	119	24990	2.16 ug/L		95
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.23 ug/L		100
76)	sec-Butylbenzene	18.61	105	41333	2.37 ug/L		100
77)	1,3-Dichlorobenzene	18.72	146	15215	2.12 ug/L		99
78)	1,4-Dichlorobenzene	18.81	146	15598	2.30 ug/L		94
79)	p-Isopropyltoluene	18.86	119	30026	2.30 ug/L		96
80)	1,2-Dichlorobenzene	19.27	146	12959	2.22 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	2.37 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	0.99 ug/L		95
83)	1,2,4-Trichlorobenzene	21.50	180	7014	2.27 ug/L		95
84)	Napthalene	21.83	128	10482	2.21 ug/L		99
85)	Hexachlorobutadiene	21.89	225	5525	1.67 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	5851	2.33 ug/L		98

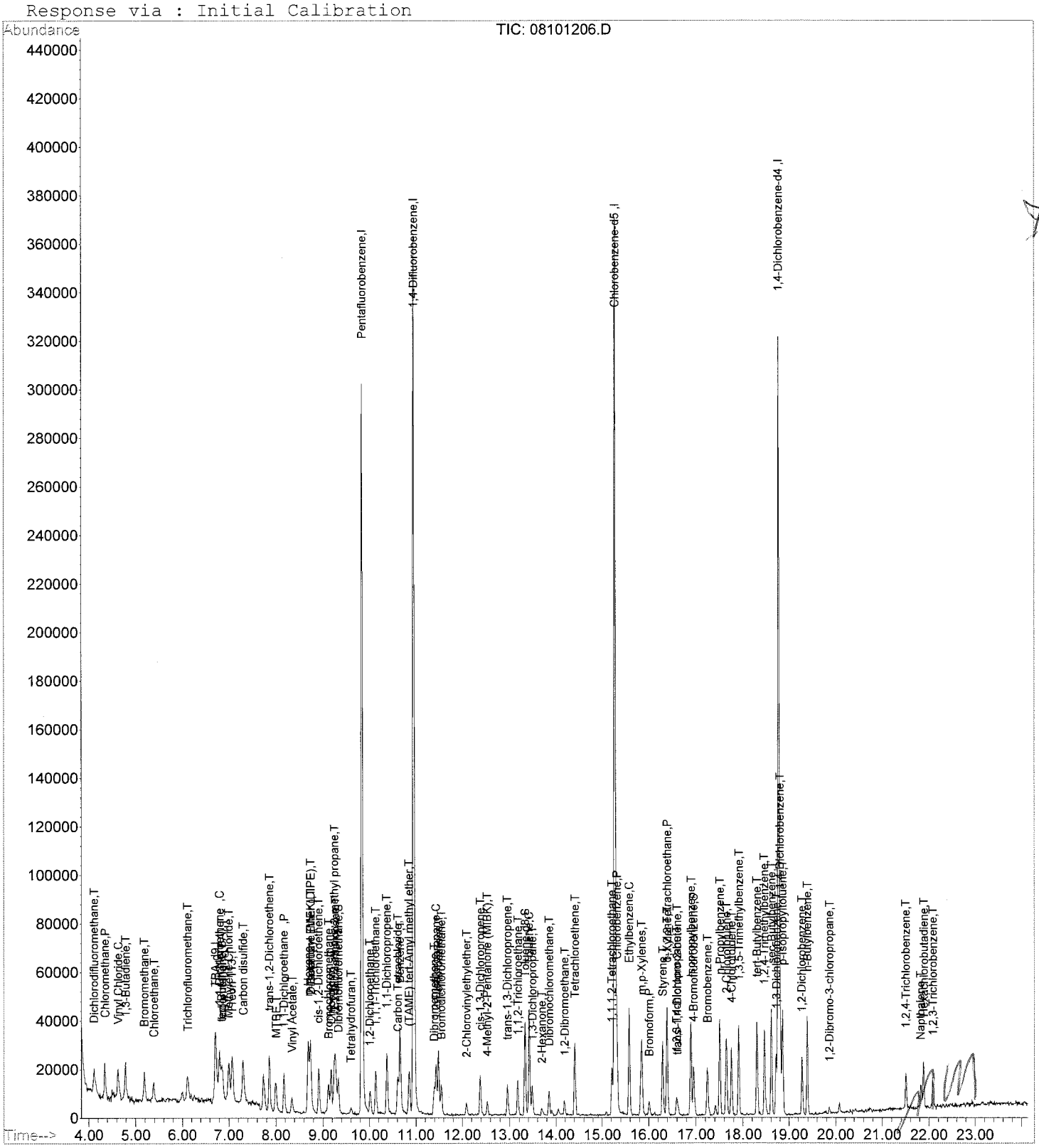
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 080712.M Fri Aug 10 09:46:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

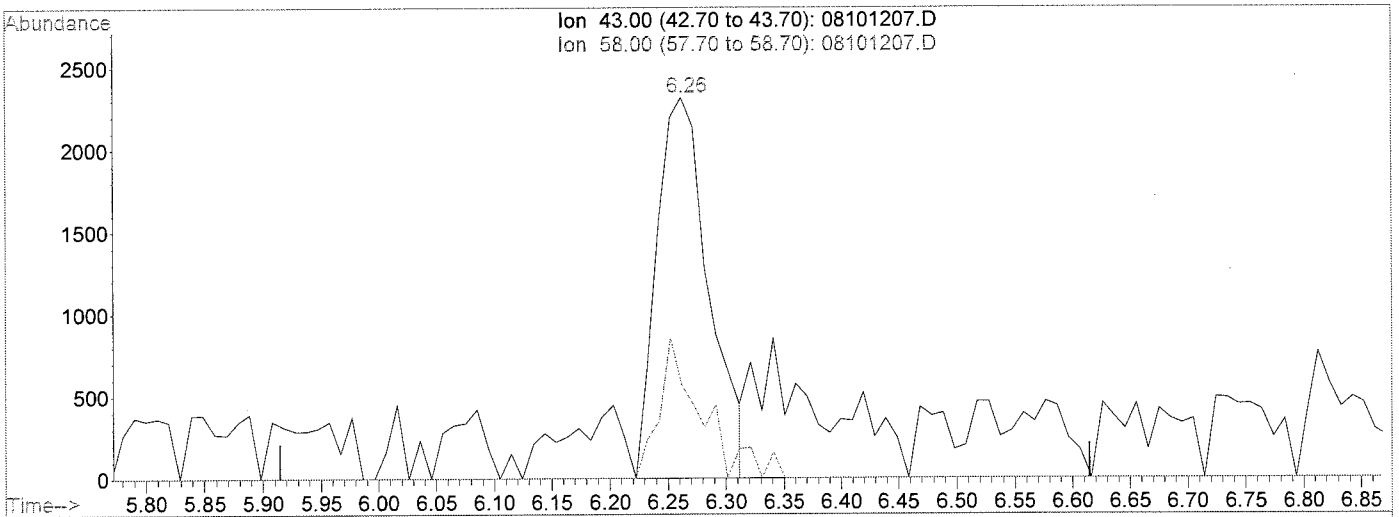
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

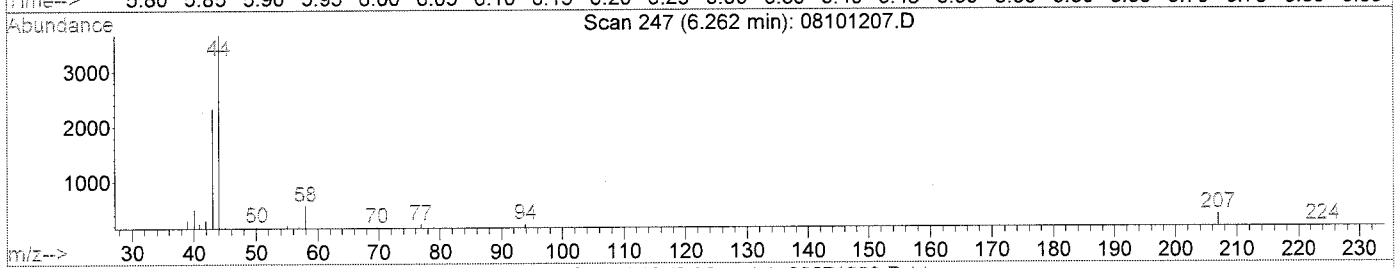


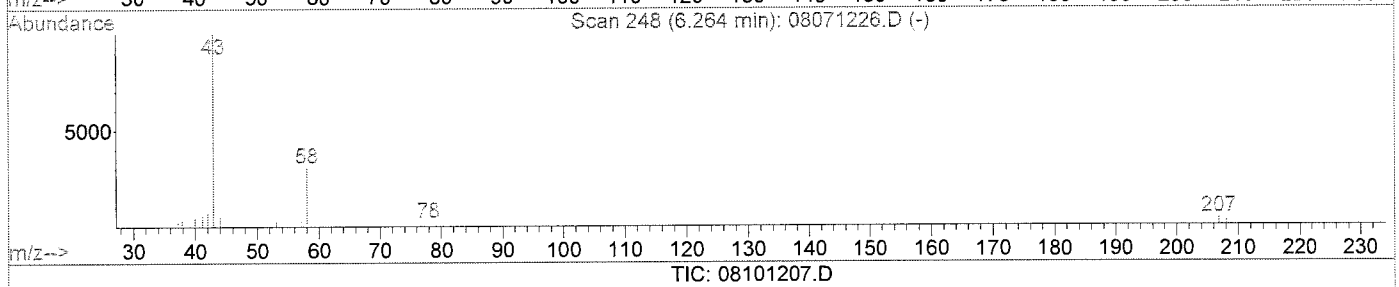
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:38 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.86ug/L

response 7175

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

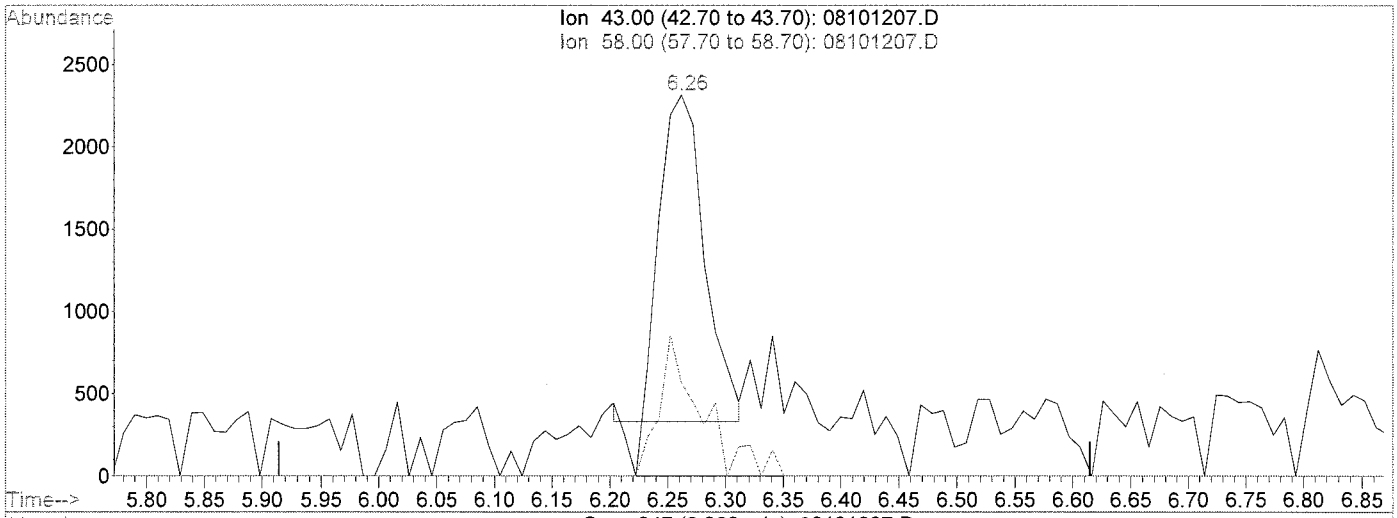
B 8/13/12

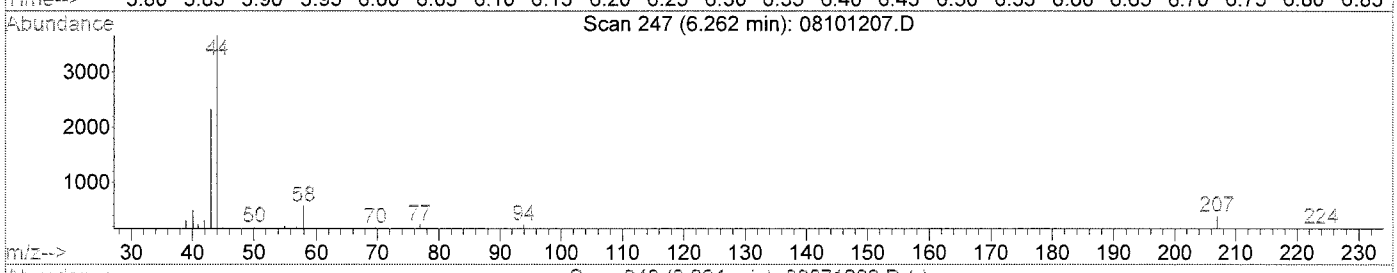
BL MM 8/13/12

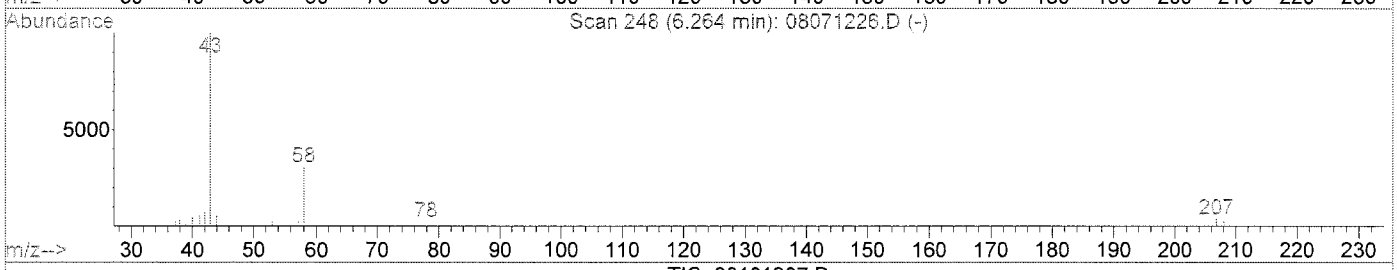
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 4.95ug/L m

response 5171

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	38.70#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	5.77 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.08%	
48) Toluene-d8	13.32	98	72498	5.75 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.00%	
62) 4-Bromofluorobenzene	16.95	95	19393	5.25 ug/L	0.00
Spiked Amount 25.000			Recovery =	21.00%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.80 ug/L #	93
5) Dichlorodifluoromethane	4.12	85	50503	5.56 ug/L	96
6) Chloromethane	4.35	50	49357	5.27 ug/L	99
7) Vinyl Chloride	4.63	62	49265	6.67 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.88 ug/L	89
9) Bromomethane	5.19	94	30021	6.31 ug/L	93
10) Chloroethane	5.38	64	23447	5.74 ug/L	95
11) Trichlorofluoromethane	6.11	101	40948	5.24 ug/L	98
12) Acetone	6.26	43	5171m	4.95 ug/L	
13) Iodomethane	6.86	142	44247	5.29 ug/L	95
14) 1,1-Dichloroethene	6.80	96	26139	5.70 ug/L #	78
15) Methylene Chloride	7.00	84	23231	5.08 ug/L	91
16) Freon 113	7.08	101	29531	5.74 ug/L	98
17) Carbon disulfide	7.30	76	90258	5.36 ug/L	95
18) trans-1,2-Dichloroethene	7.87	96	30944	6.23 ug/L	89
19) MTBE	8.00	73	42861	5.31 ug/L	98
20) 1,1-Dichloroethane	8.18	63	50278	5.93 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.85 ug/L	97
22) n-Hexane	8.68	86	8584	7.29 ug/L	62
23) 2-Butanone (MEK)	8.73	72	1806	6.11 ug/L #	37
24) Diisopropyl Ether (DIPE)	8.74	45	78319	5.44 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	27851	6.31 ug/L	89
26) Bromochloromethane	9.11	128	10529	5.67 ug/L	94
27) Chloroform	9.17	83	43865	5.97 ug/L	94
28) 2,2-Dichloropropane	9.27	77	32662	5.28 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	5.22 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	5.02 ug/L	94
32) 1,2-Dichloroethane	10.01	62	19485	4.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.62 ug/L	91
34) (TAME) tert-Amyl methyl et	10.86	73	44807	5.54 ug/L	92
36) 1,1-Dichloropropene	10.37	75	40445	5.62 ug/L	98
37) Carbon Tetrachloride	10.61	117	30853	4.88 ug/L	95
38) Benzene	10.66	78	91136	5.46 ug/L #	90
39) Dibromomethane	11.39	93	10657	5.28 ug/L	89
40) 1,2-Dichloropropane	11.44	63	21430	5.25 ug/L #	91

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	27389	5.87 ug/L	97
42) Bromodichloromethane	11.55	83	25974	5.06 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	6853	5.95 ug/L #	92
44) cis-1,3-Dichloropropene	12.39	75	28675	5.40 ug/L #	85
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.03 ug/L	98
46) trans-1,3-Dichloropropene	12.96	75	21114	4.70 ug/L #	85
47) 1,1,2-Trichloroethane	13.17	97	12837	5.46 ug/L #	85
49) Toluene	13.42	92	54238	6.09 ug/L	96
51) 1,3-Dichloropropane	13.49	76	23699	5.47 ug/L	96
52) 2-Hexanone	13.69	43	8850	4.59 ug/L	98
53) Dibromochloromethane	13.86	129	16099	5.12 ug/L	100
54) 1,2-Dibromoethane	14.19	107	13554	5.50 ug/L	96
55) Tetrachloroethene	14.41	164	23934	5.75 ug/L	94
56) 1,1,1,2-Tetrachloroethane	15.21	131	18257	5.33 ug/L	95
57) Chlorobenzene	15.32	112	54536	6.13 ug/L	94
58) Ethylbenzene	15.59	91	93388	5.75 ug/L	96
59) m,p-Xylenes	15.85	106	35706	6.06 ug/L	91
60) Styrene	16.30	104	44417	5.76 ug/L #	91
61) o-Xylene	16.39	106	32546	6.07 ug/L	93
64) Bromoform	16.01	173	9250	4.98 ug/L	87
65) 1,1,2,2-Tetrachloroethane	16.39	83	14360	5.22 ug/L #	98
66) 1,2,3-Trichloropropane	16.59	110	3714	5.14 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.62	53	3143	5.98 ug/L #	93
68) Isopropylbenzene	16.90	105	84596	5.72 ug/L	97
69) Bromobenzene	17.25	156	19667	5.16 ug/L	98
70) n-Propylbenzene	17.50	91	106364	5.69 ug/L	97
71) 2-Chlorotoluene	17.64	91	57156	5.26 ug/L	94
72) 4-Chlorotoluene	17.75	91	57414	5.56 ug/L	96
73) 1,3,5-Trimethylbenzene	17.91	105	65369	5.68 ug/L	93
74) tert-Butylbenzene	18.30	119	58429	5.64 ug/L	97
75) 1,2,4-Trimethylbenzene	18.46	105	63046	5.83 ug/L	96
76) sec-Butylbenzene	18.61	105	99506	6.34 ug/L	98
77) 1,3-Dichlorobenzene	18.71	146	37917	5.87 ug/L	95
78) 1,4-Dichlorobenzene	18.81	146	35468	5.82 ug/L	99
79) p-Isopropyltoluene	18.86	119	72640	6.20 ug/L	94
80) 1,2-Dichlorobenzene	19.28	146	30287	5.78 ug/L	99
81) n-Butylbenzene	19.39	91	70667	6.52 ug/L	97
82) 1,2-Dibromo-3-chloropropan	19.87	75	1150	2.73 ug/L #	34
83) 1,2,4-Trichlorobenzene	21.51	180	17519	6.31 ug/L	98
84) Napthalene	21.82	128	26687	6.26 ug/L	96
85) Hexachlorobutadiene	21.88	225	14706	4.54 ug/L	88
86) 1,2,3-Trichlorobenzene	22.08	180	14724	6.68 ug/L	99

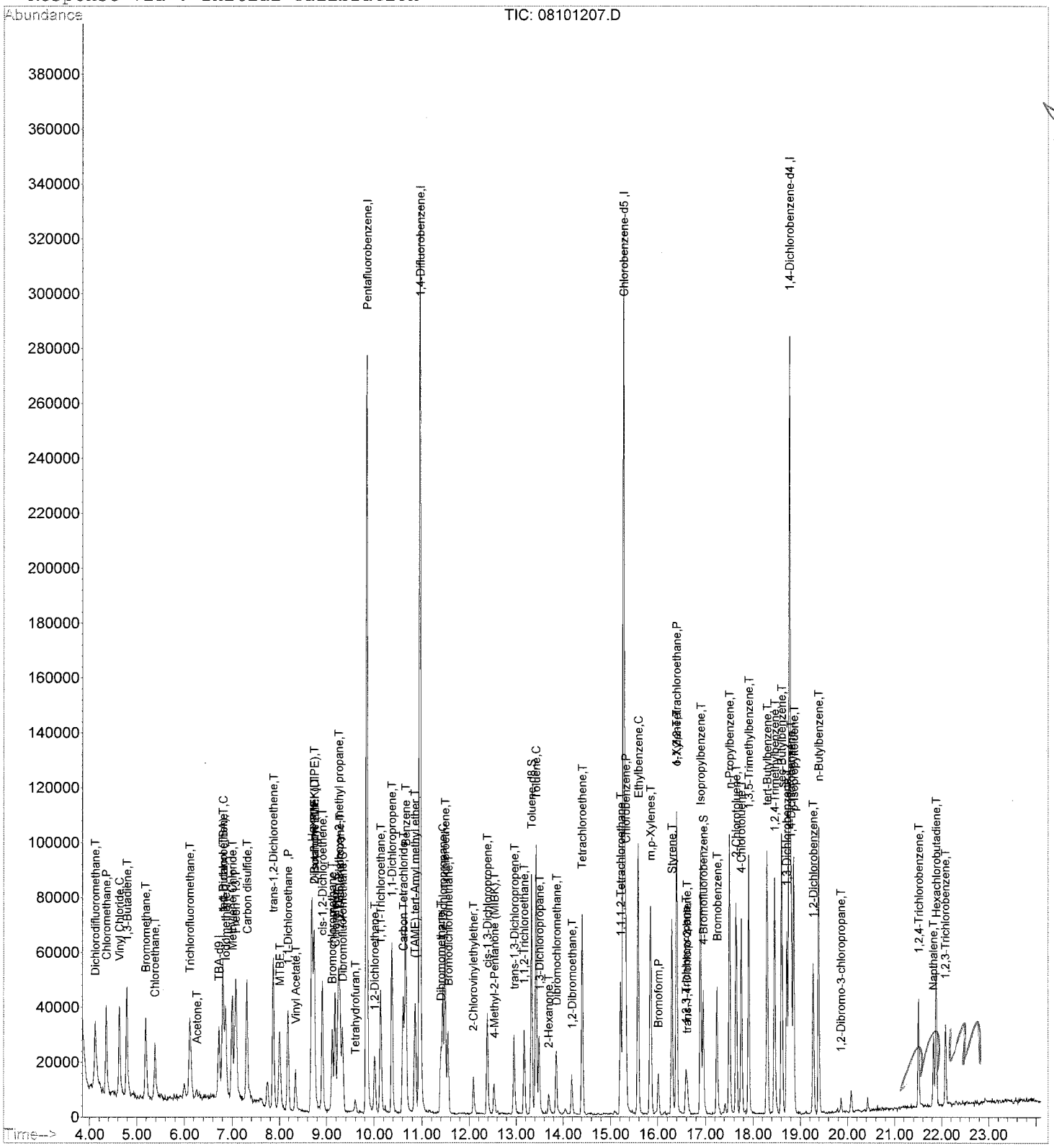
MM

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

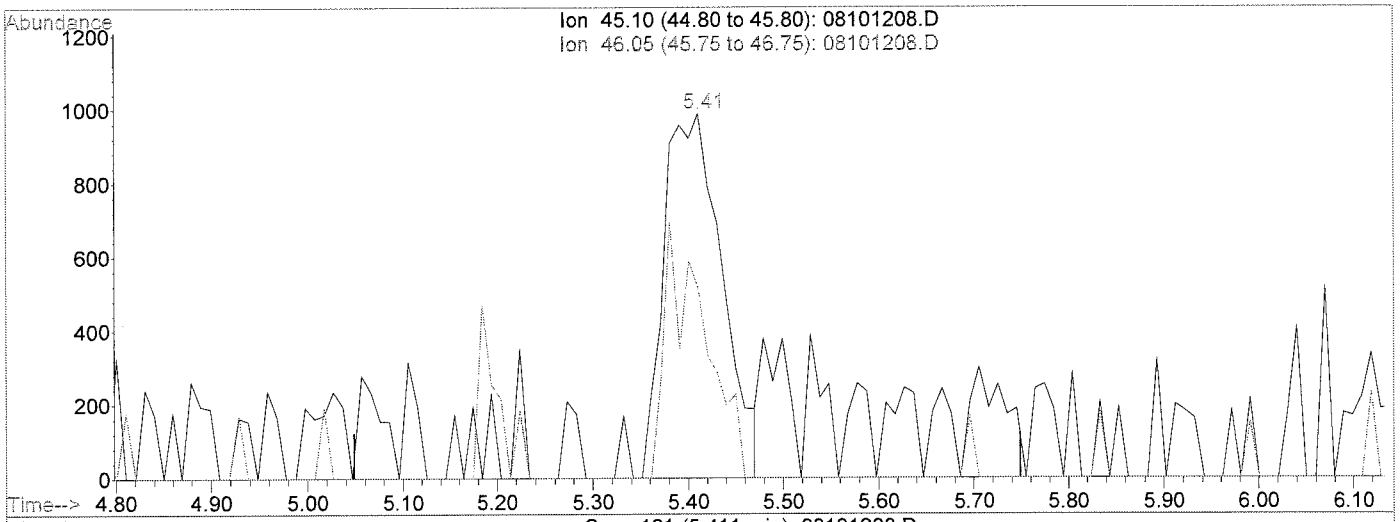
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

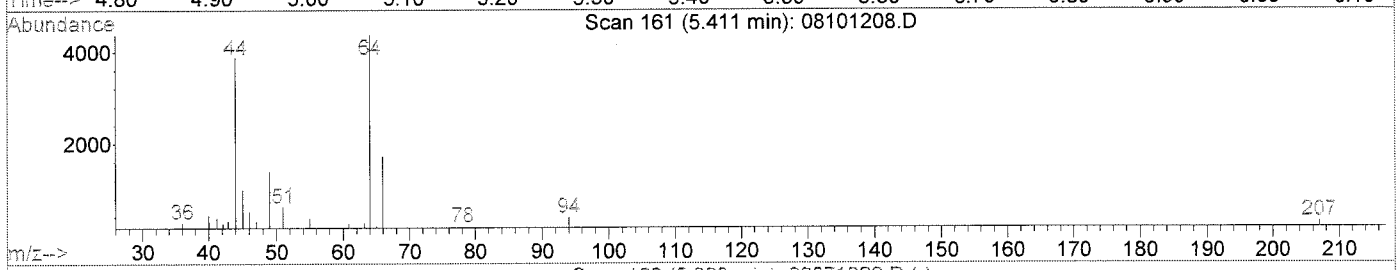


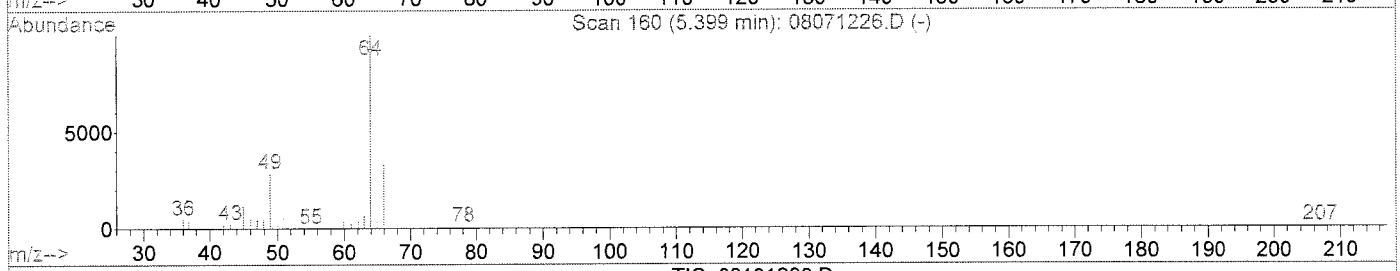
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 112.69ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

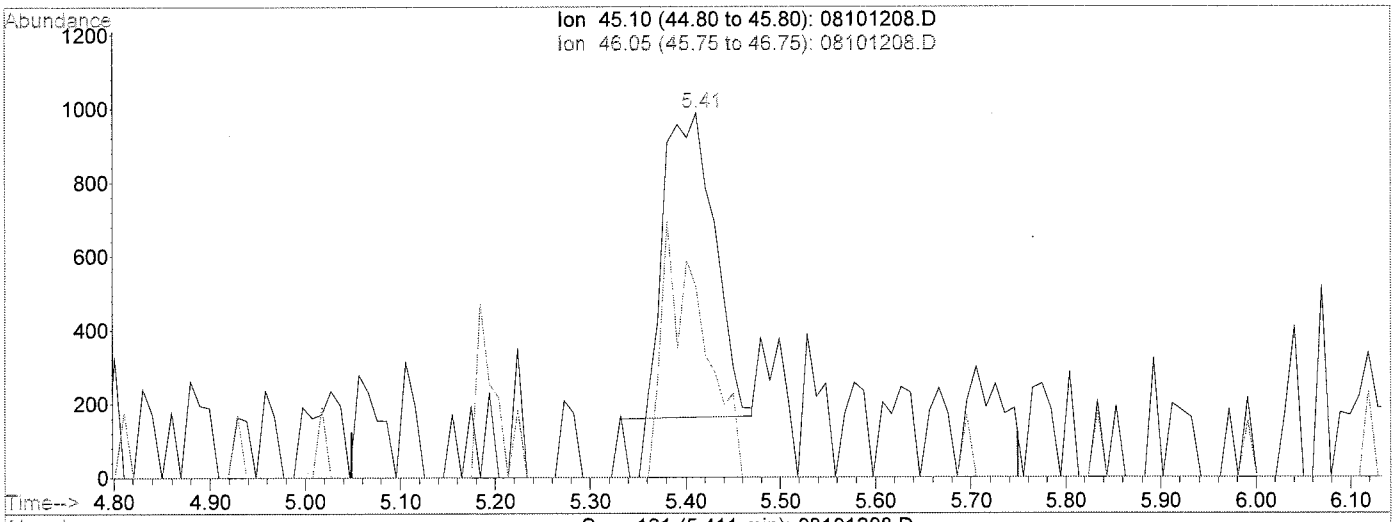
BL

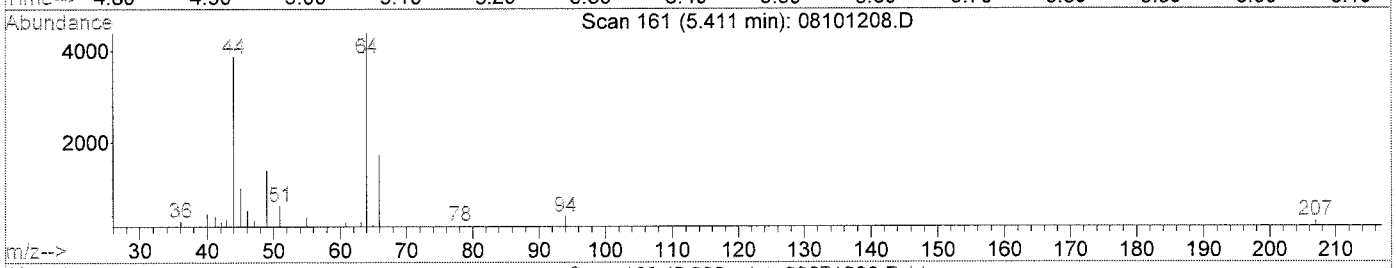
MM 8/13/12

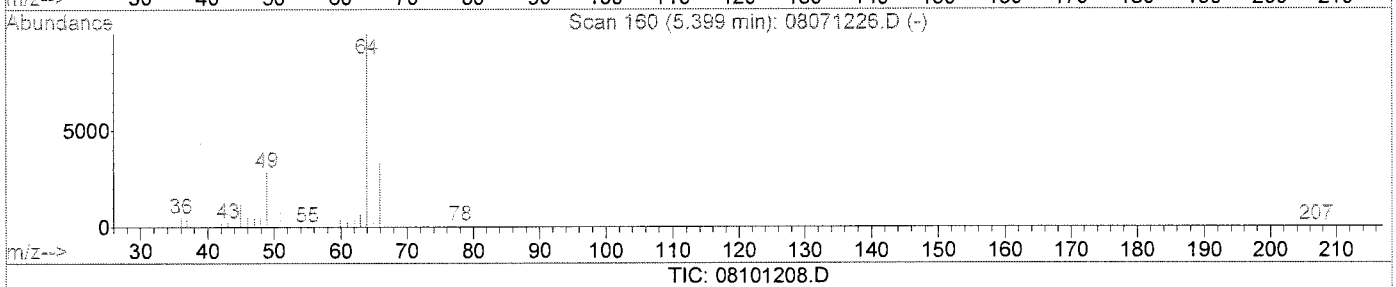
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 76.46ug/L m

response 2824

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	71.99#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

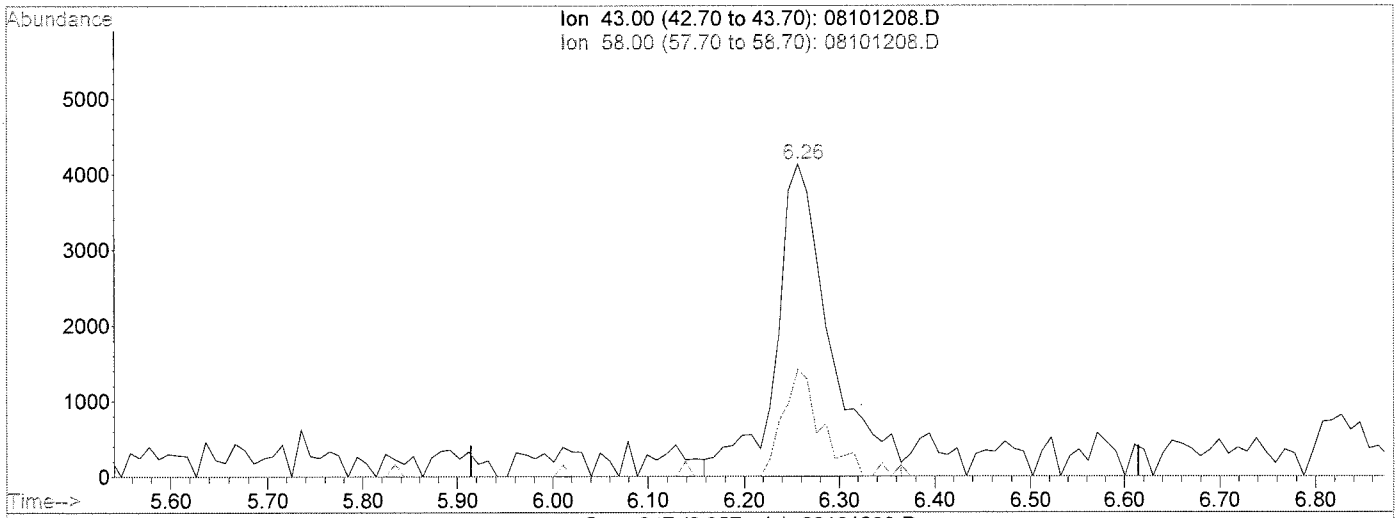
A

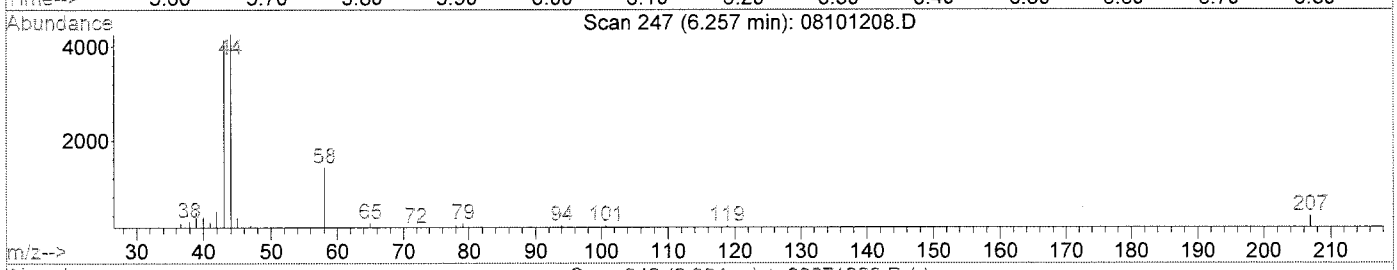
MM 8/13/12

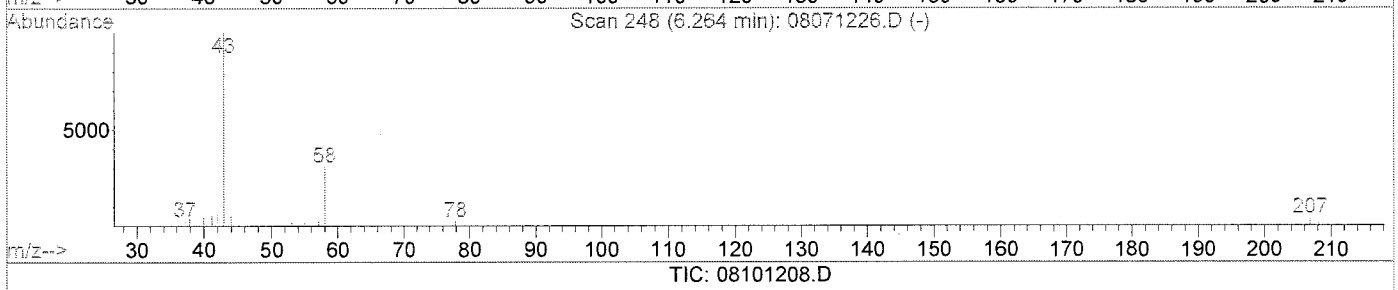
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 15.14ug/L

response 16281

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	24.34
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

IB

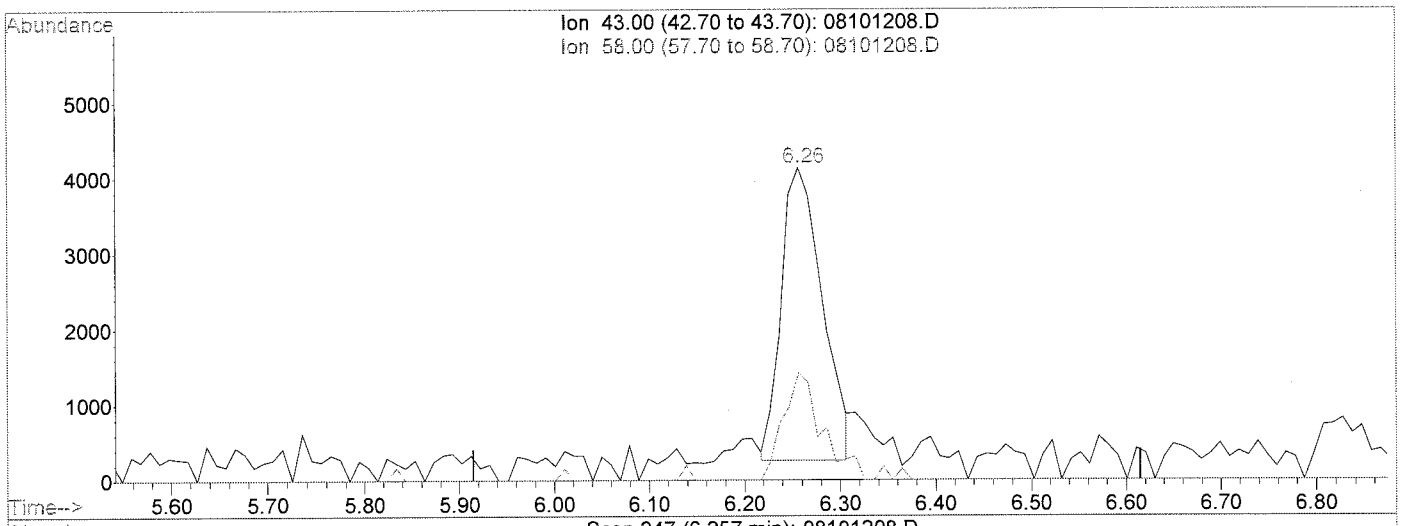
BL

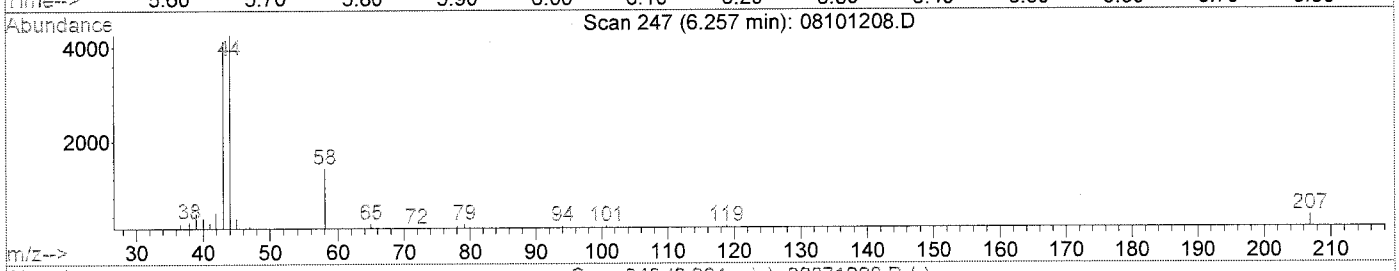
MM 8/13/12

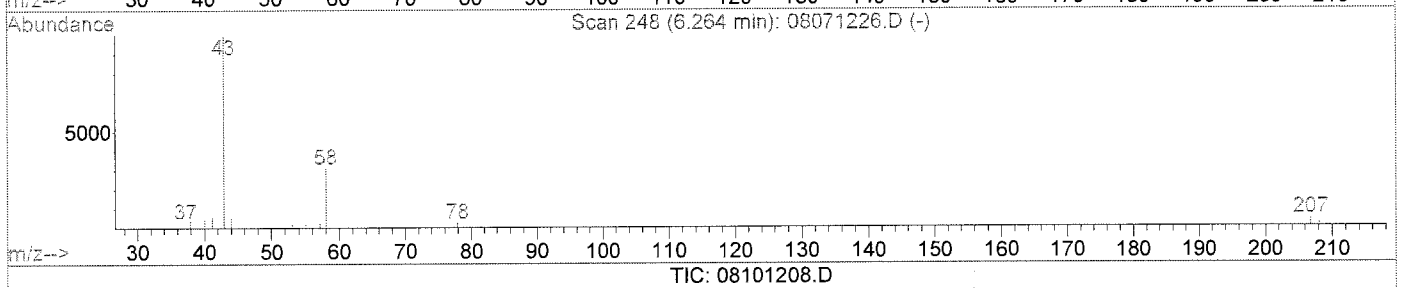
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 10.63ug/L m

response 11426

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	34.68#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	12.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	48.00%	
48) Toluene-d8	13.33	98	151060	11.69 ug/L	0.00
Spiked Amount 25.000			Recovery =	46.76%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	47.12%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	2824m	76.46 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	48.06 ug/L #	94
5) Dichlorodifluoromethane	4.11	85	99359	10.63 ug/L	98
6) Chloromethane	4.35	50	99085	10.28 ug/L	98
7) Vinyl Chloride	4.63	62	94725	12.47 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	11.54 ug/L	94
9) Bromomethane	5.18	94	57814	11.81 ug/L	99
10) Chloroethane	5.38	64	44676	10.64 ug/L	95
11) Trichlorofluoromethane	6.11	101	81825	10.18 ug/L	97
12) Acetone	6.26	43	11426m	10.63 ug/L	
13) Iodomethane	6.87	142	92968	10.81 ug/L	94
14) 1,1-Dichloroethene	6.81	96	53536	11.34 ug/L #	76
15) Methylene Chloride	6.99	84	48433	10.29 ug/L	87
16) Freon 113	7.07	101	57249	10.81 ug/L	98
17) Carbon disulfide	7.30	76	183724	10.61 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	63718	12.47 ug/L	90
19) MTBE	8.00	73	90114	10.86 ug/L	97
20) 1,1-Dichloroethane	8.17	63	99374	11.40 ug/L	98
21) Vinyl Acetate	8.34	43	68389	10.07 ug/L	98
22) n-Hexane	8.69	86	15274	12.60 ug/L	89
23) 2-Butanone (MEK)	8.74	72	3909	12.86 ug/L #	54
24) Diisopropyl Ether (DIPE)	8.74	45	169576	11.46 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	59154	13.03 ug/L	87
26) Bromochloromethane	9.12	128	23711	12.41 ug/L	86
27) Chloroform	9.18	83	88095	11.66 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.41 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	11.10 ug/L	95
31) Tetrahydrofuran	9.59	72	3578	11.79 ug/L	86
32) 1,2-Dichloroethane	10.01	62	41085	9.31 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	75517	11.56 ug/L	94
34) (TAME) tert-Amyl methyl et	10.85	73	91702	11.02 ug/L	93
36) 1,1-Dichloropropene	10.38	75	86510	11.72 ug/L	97
37) Carbon Tetrachloride	10.61	117	64587	9.98 ug/L	96
38) Benzene	10.66	78	192601	11.26 ug/L	93
39) Dibromomethane	11.39	93	22947	11.10 ug/L	90
40) 1,2-Dichloropropane	11.43	63	45818	10.96 ug/L #	91

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	11.21 ug/L		94
42)	Bromodichloromethane	11.55	83	54093	10.29 ug/L		97
43)	2-Chlorovinylethylether	12.09	63	17562	14.63 ug/L	#	93
44)	cis-1,3-Dichloropropene	12.38	75	62172	11.41 ug/L	#	85
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	8.91 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	46129	9.67 ug/L	#	87
47)	1,1,2-Trichloroethane	13.17	97	27529	11.42 ug/L	#	89
49)	Toluene	13.42	92	109934	12.04 ug/L		98
51)	1,3-Dichloropropane	13.49	76	47813	10.89 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.56 ug/L	#	93
53)	Dibromochloromethane	13.85	129	35116	11.02 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	11.85 ug/L		97
55)	Tetrachloroethene	14.41	164	47547	11.26 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	11.04 ug/L		97
57)	Chlorobenzene	15.32	112	113987	12.63 ug/L		93
58)	Ethylbenzene	15.58	91	196709	11.95 ug/L		96
59)	m,p-Xylenes	15.85	106	77315	12.93 ug/L		90
60)	Styrene	16.30	104	101282	12.96 ug/L	#	92
61)	o-Xylene	16.40	106	72024	13.24 ug/L		91
64)	Bromoform	16.00	173	18119	9.53 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	12.08 ug/L	#	94
66)	1,2,3-Trichloropropane	16.59	110	7207	10.03 ug/L		95
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	10.45 ug/L	#	93
68)	Isopropylbenzene	16.90	105	174169	11.85 ug/L		100
69)	Bromobenzene	17.24	156	41493	10.93 ug/L		94
70)	n-Propylbenzene	17.51	91	220385	11.84 ug/L		99
71)	2-Chlorotoluene	17.65	91	118995	11.01 ug/L		99
72)	4-Chlorotoluene	17.75	91	114947	11.19 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	140555	12.28 ug/L		96
74)	tert-Butylbenzene	18.31	119	125080	12.13 ug/L		94
75)	1,2,4-Trimethylbenzene	18.46	105	130209	12.10 ug/L		93
76)	sec-Butylbenzene	18.61	105	203460	13.03 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	12.24 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	12.40 ug/L		98
79)	p-Isopropyltoluene	18.86	119	152942	13.13 ug/L		96
80)	1,2-Dichlorobenzene	19.28	146	63302	12.15 ug/L		97
81)	n-Butylbenzene	19.39	91	148822	13.81 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	9.29 ug/L	#	57
83)	1,2,4-Trichlorobenzene	21.50	180	37943	13.74 ug/L		97
84)	Napthalene	21.83	128	59549	14.05 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	8.23 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	14.08 ug/L		97

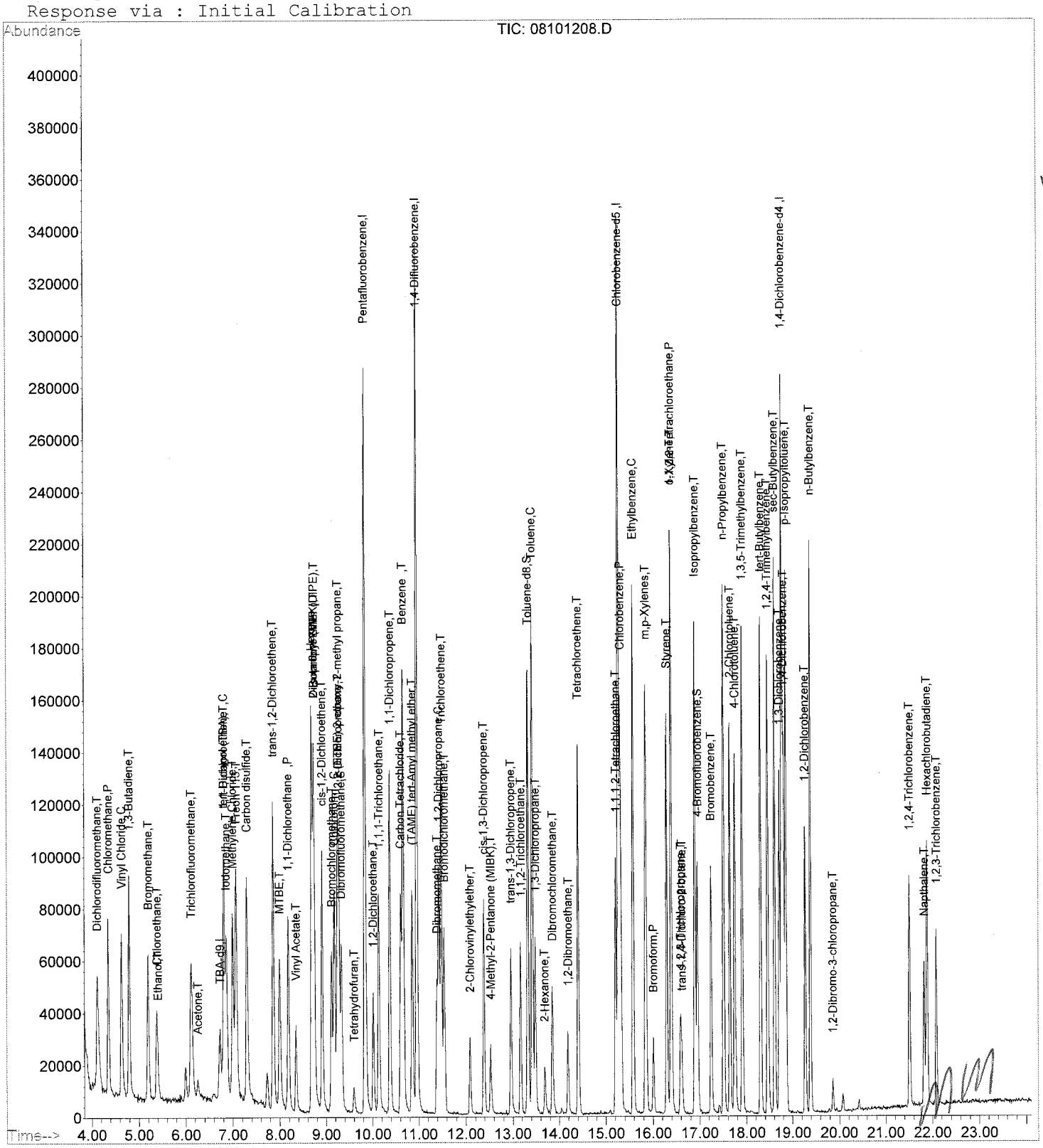
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

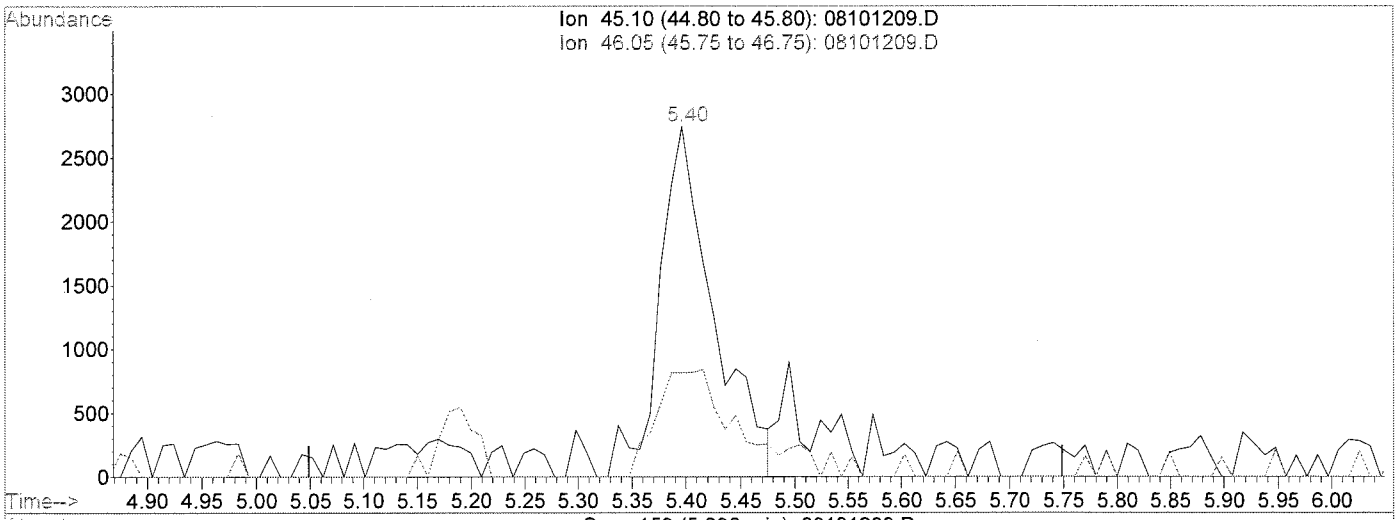
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

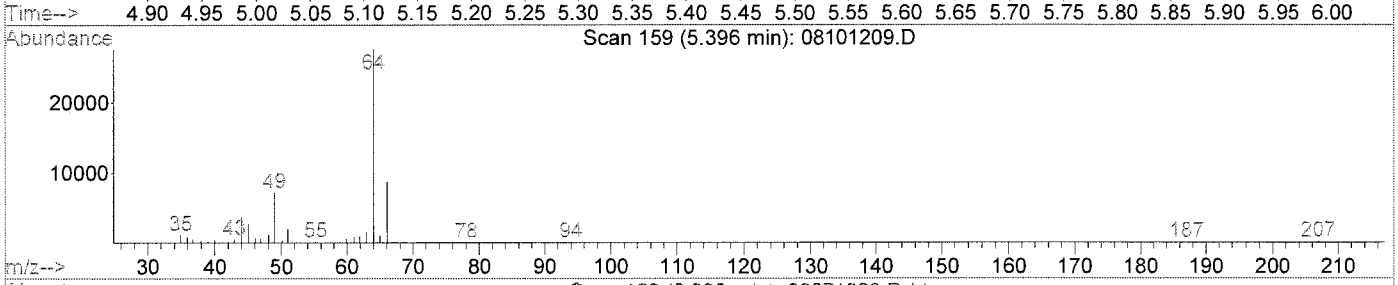


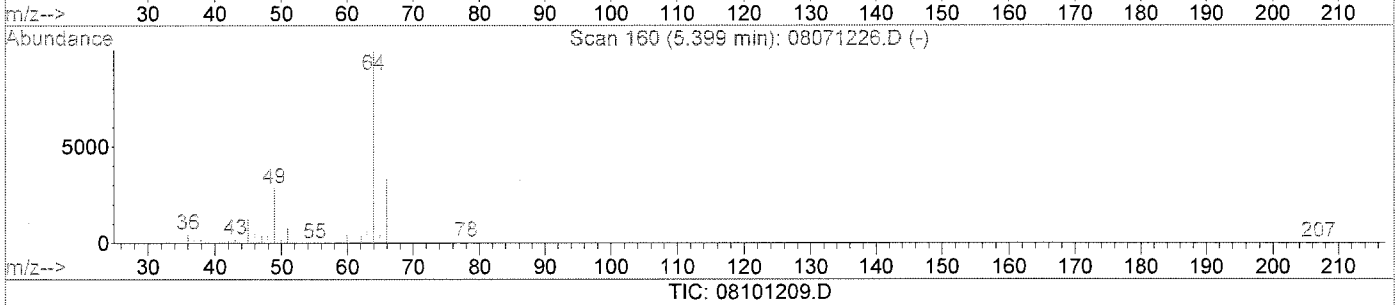
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 267.40ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

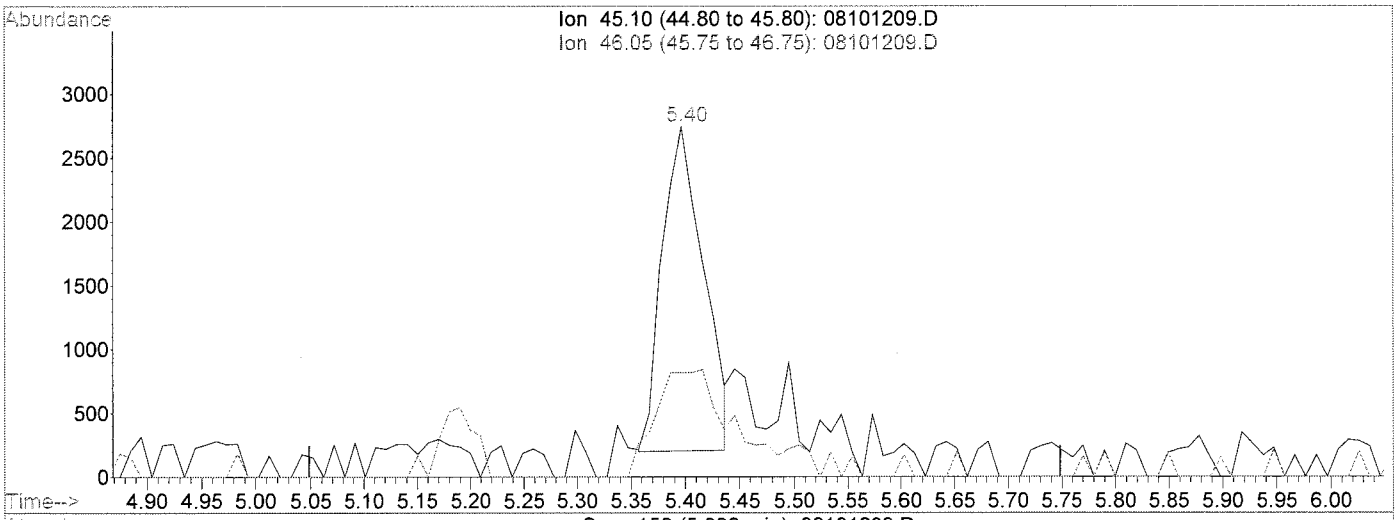
BL

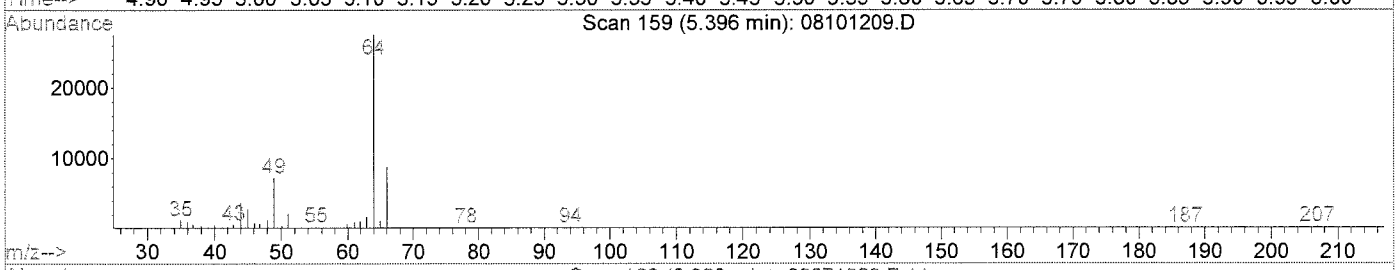
MM 8/13/12

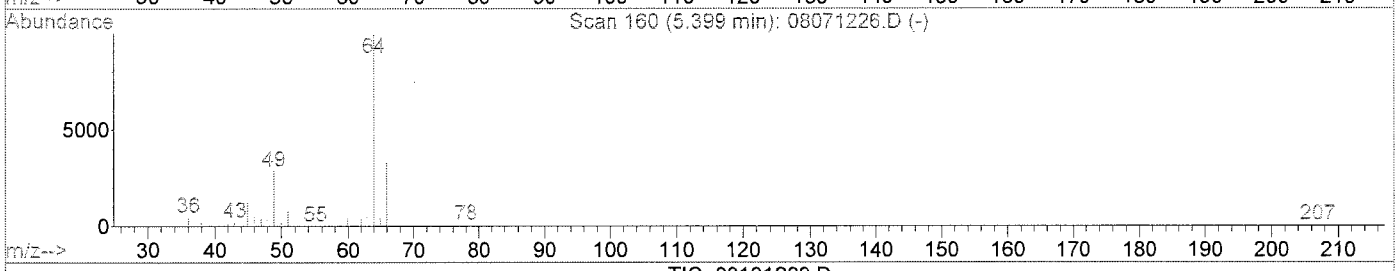
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(2) Ethanol (T)

5.40min 187.38ug/L m

response 6700

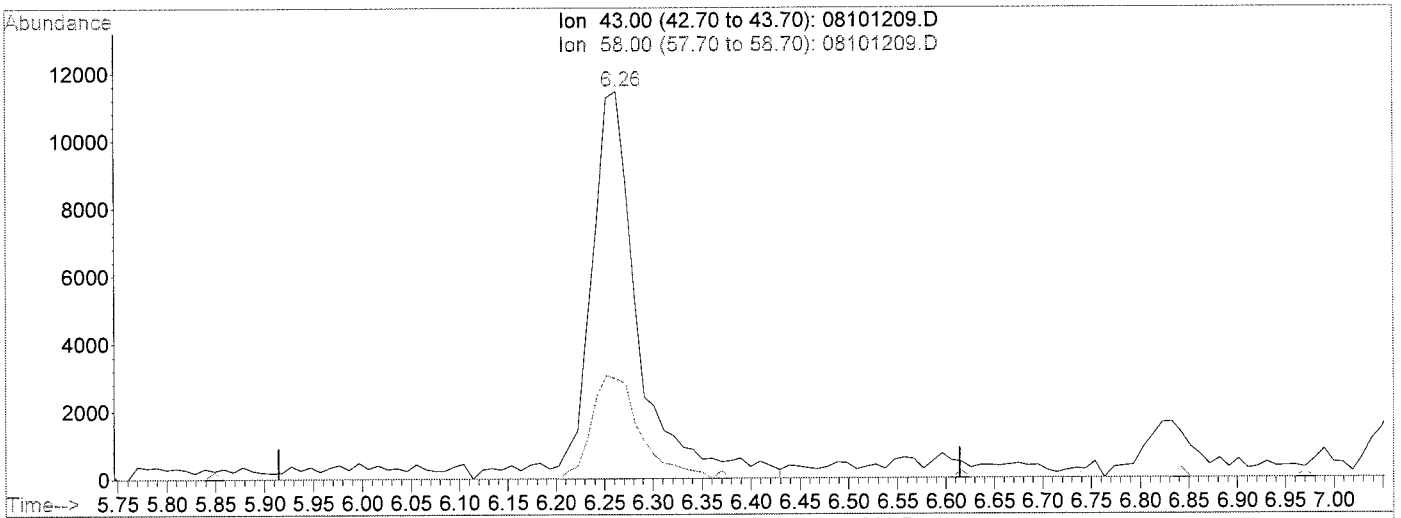
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	59.94#
0.00	0.00	0.00
0.00	0.00	0.00

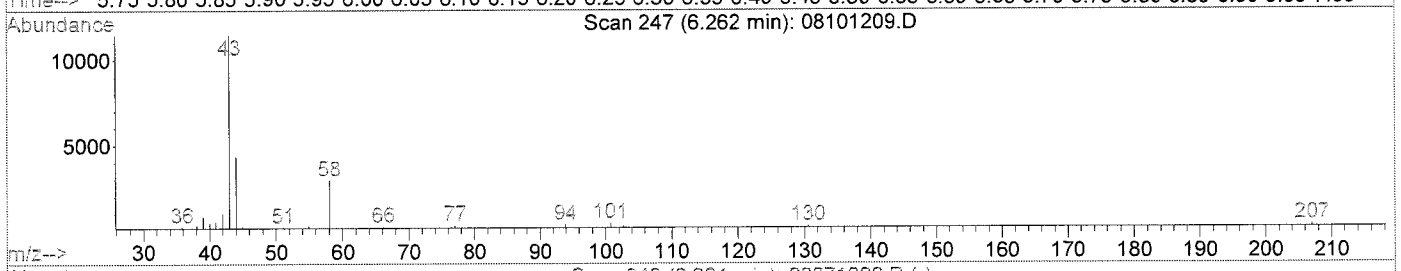
MM 8/13/12

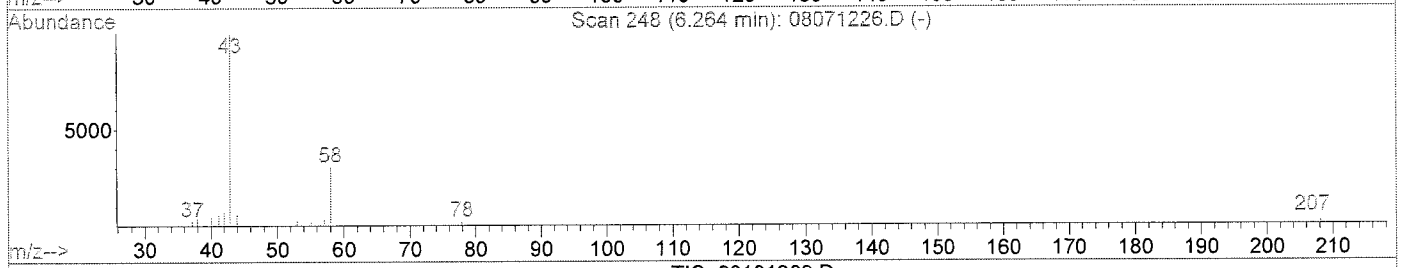
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 35.00ug/L

response 39847

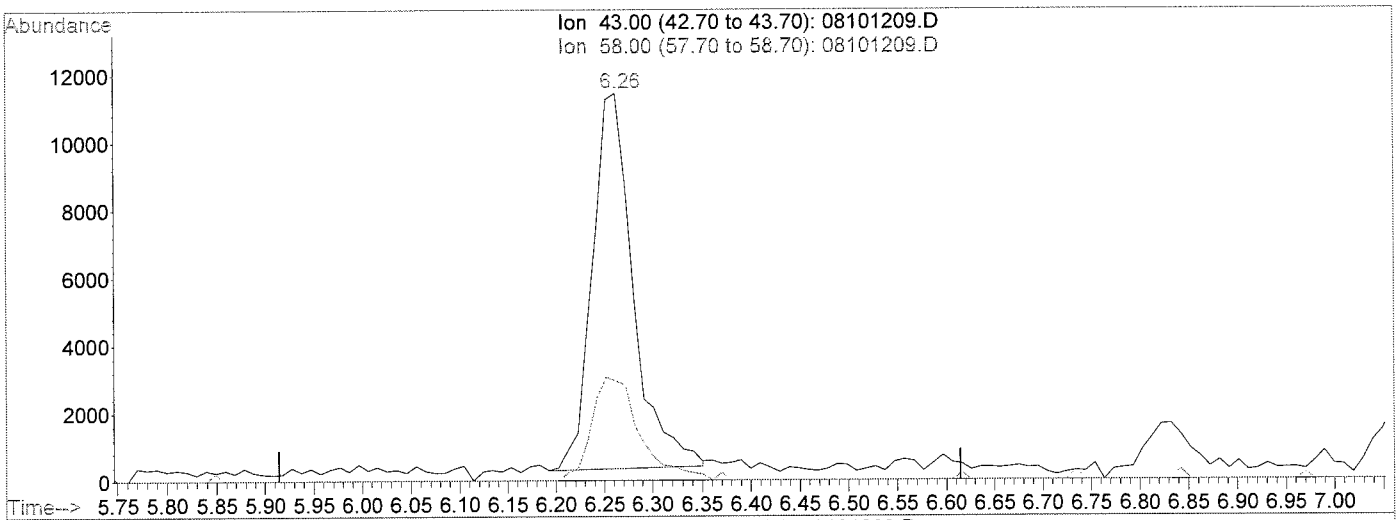
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

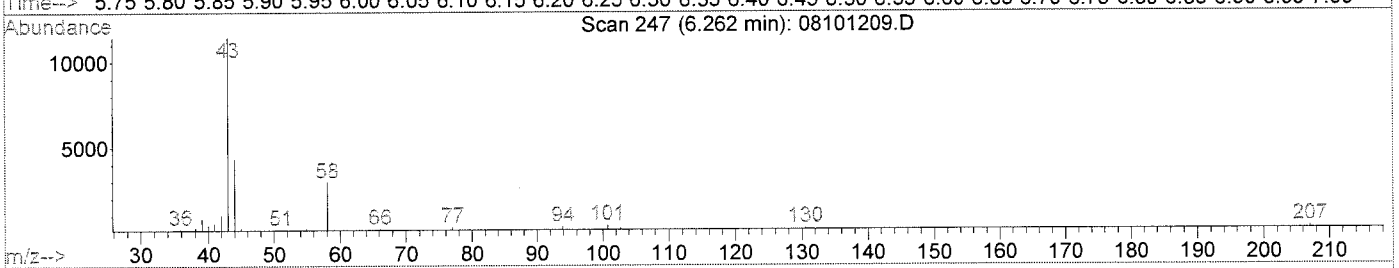
BL MM 8/13/12

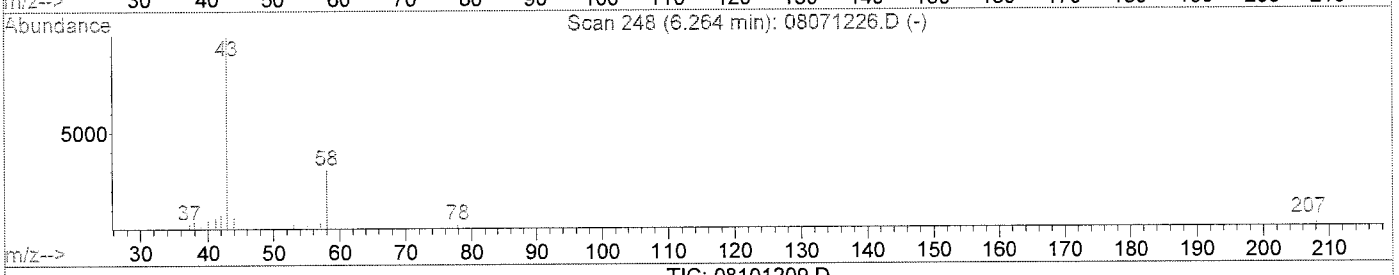
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 28.81ug/L m

response 32794

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.37#
0.00	0.00	0.00
0.00	0.00	0.00

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	28.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.68%	
48) Toluene-d8	13.32	98	387904	27.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.48%	
62) 4-Bromofluorobenzene	16.95	95	104965	26.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.44%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6700m	187.38 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	129.76 ug/L	99
5) Dichlorodifluoromethane	4.11	85	259999	26.28 ug/L	98
6) Chloromethane	4.35	50	249108	24.41 ug/L	99
7) Vinyl Chloride	4.63	62	234281	29.14 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	27.33 ug/L	91
9) Bromomethane	5.19	94	136870	26.41 ug/L	97
10) Chloroethane	5.38	64	115028	25.87 ug/L	97
11) Trichlorofluoromethane	6.11	101	203736	23.94 ug/L	99
12) Acetone	6.26	43	32794m	28.81 ug/L	
13) Iodomethane	6.86	142	233911	25.68 ug/L	93
14) 1,1-Dichloroethene	6.81	96	132114	26.43 ug/L #	78
15) Methylene Chloride	7.00	84	120484	24.17 ug/L	87
16) Freon 113	7.07	101	146166	26.07 ug/L	97
17) Carbon disulfide	7.29	76	465019	25.36 ug/L #	93
18) trans-1,2-Dichloroethene	7.87	96	156993	29.02 ug/L	90
19) MTBE	8.00	73	227954	25.95 ug/L	99
20) 1,1-Dichloroethane	8.18	63	249879	27.07 ug/L	98
21) Vinyl Acetate	8.34	43	179194	24.91 ug/L #	95
22) n-Hexane	8.69	86	38470	29.98 ug/L	88
23) 2-Butanone (MEK)	8.73	72	10850	33.72 ug/L #	7
24) Diisopropyl Ether (DIPE)	8.74	45	414456	26.45 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	143999	29.97 ug/L	89
26) Bromochloromethane	9.11	128	58383	28.86 ug/L	90
27) Chloroform	9.17	83	223471	27.92 ug/L #	95
28) 2,2-Dichloropropane	9.27	77	163680	24.31 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	25.69 ug/L	96
31) Tetrahydrofuran	9.60	72	8067	25.10 ug/L	90
32) 1,2-Dichloroethane	10.01	62	105341	22.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	190354	27.51 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	241539	27.42 ug/L	92
36) 1,1-Dichloropropene	10.37	75	205389	25.84 ug/L	95
37) Carbon Tetrachloride	10.61	117	164083	23.54 ug/L	99
38) Benzene	10.66	78	497157	26.99 ug/L #	91
39) Dibromomethane	11.39	93	58226	26.16 ug/L	95
40) 1,2-Dichloropropane	11.44	63	118189	26.25 ug/L #	88

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	140936	27.36 ug/L		97
42)	Bromodichloromethane	11.55	83	140799	24.87 ug/L		96
43)	2-Chlorovinylethylether	12.08	63	44348	33.04 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	164809	28.10 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	66778	20.37 ug/L		96
46)	trans-1,3-Dichloropropene	12.95	75	123650	23.61 ug/L	#	84
47)	1,1,2-Trichloroethane	13.17	97	72275	27.84 ug/L	#	88
49)	Toluene	13.42	92	282282	28.72 ug/L		99
51)	1,3-Dichloropropane	13.49	76	124333	26.67 ug/L		100
52)	2-Hexanone	13.69	43	53049	25.56 ug/L	#	92
53)	Dibromochloromethane	13.86	129	92023	27.19 ug/L		100
54)	1,2-Dibromoethane	14.18	107	76183	28.73 ug/L		99
55)	Tetrachloroethene	14.41	164	125279	27.94 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	102745	27.86 ug/L		99
57)	Chlorobenzene	15.32	112	287853	30.02 ug/L		93
58)	Ethylbenzene	15.59	91	512045	29.28 ug/L		96
59)	m,p-Xylenes	15.84	106	195904	30.85 ug/L		92
60)	Styrene	16.29	104	271388	32.70 ug/L	#	91
61)	o-Xylene	16.39	106	178278	30.86 ug/L		94
64)	Bromoform	16.01	173	52543	22.91 ug/L		95
65)	1,1,2,2-Tetrachloroethane	16.39	83	80822	25.58 ug/L		99
66)	1,2,3-Trichloropropane	16.59	110	19363	23.33 ug/L		97
67)	trans-1,4-Dichloro-2-buten	16.62	53	18848	22.67 ug/L	#	87
68)	Isopropylbenzene	16.89	105	450007	26.49 ug/L		99
69)	Bromobenzene	17.25	156	113170	25.81 ug/L		91
70)	n-Propylbenzene	17.50	91	579703	26.97 ug/L		98
71)	2-Chlorotoluene	17.64	91	304359	24.38 ug/L		95
72)	4-Chlorotoluene	17.75	91	297241	25.04 ug/L		93
73)	1,3,5-Trimethylbenzene	17.91	105	362766	27.43 ug/L		95
74)	tert-Butylbenzene	18.30	119	324105	27.20 ug/L		93
75)	1,2,4-Trimethylbenzene	18.46	105	337490	27.14 ug/L		95
76)	sec-Butylbenzene	18.61	105	528569	29.31 ug/L		98
77)	1,3-Dichlorobenzene	18.71	146	201590	27.15 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	196096	27.98 ug/L		97
79)	p-Isopropyltoluene	18.85	119	400272	29.75 ug/L		95
80)	1,2-Dichlorobenzene	19.28	146	166930	27.73 ug/L		99
81)	n-Butylbenzene	19.39	91	388212	31.19 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	9202	25.02 ug/L		85
83)	1,2,4-Trichlorobenzene	21.51	180	95814	30.03 ug/L		97
84)	Napthalene	21.82	128	152397	31.11 ug/L		100
85)	Hexachlorobutadiene	21.88	225	71752	20.04 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	77645	30.90 ug/L		98

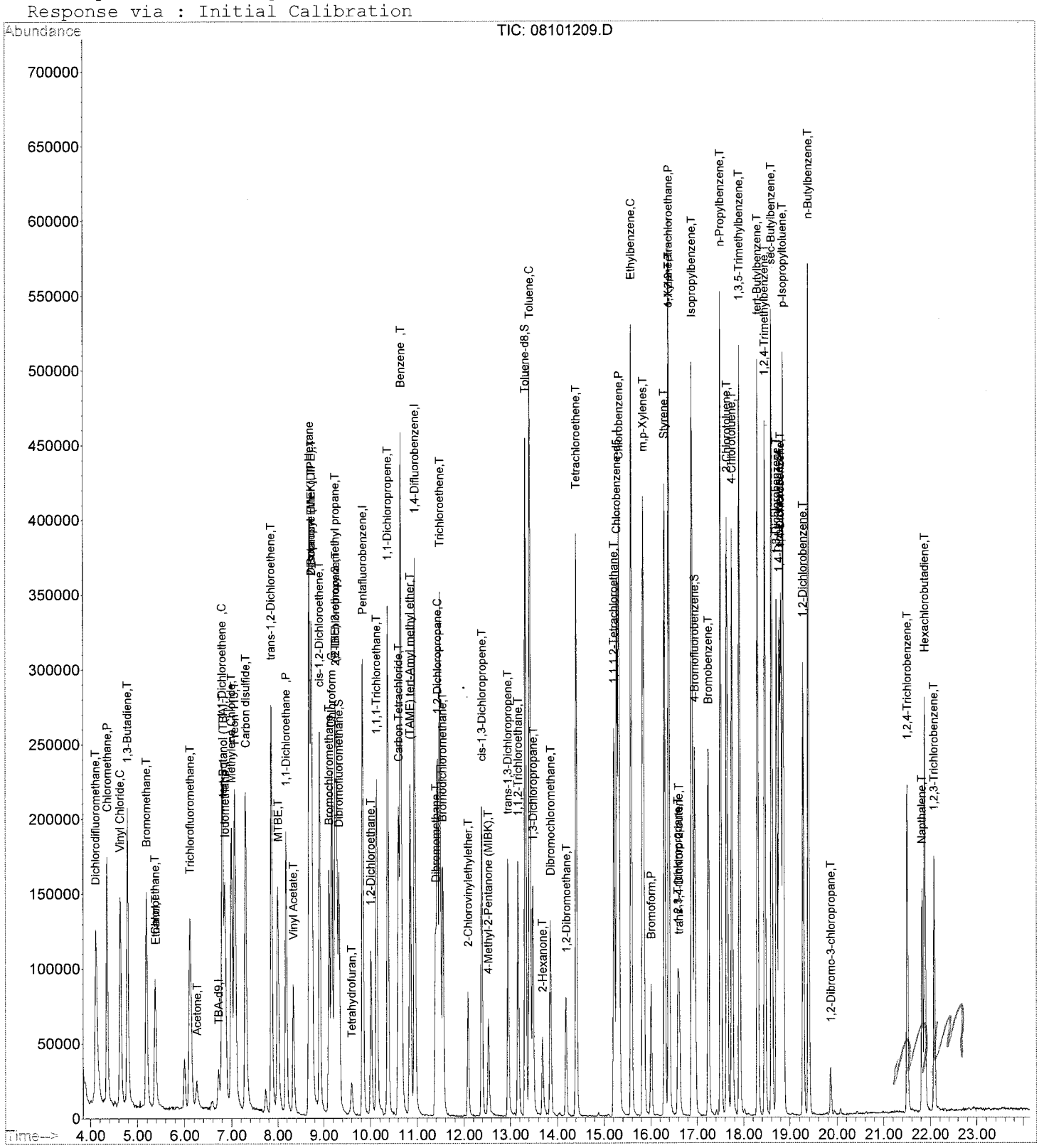
MM

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

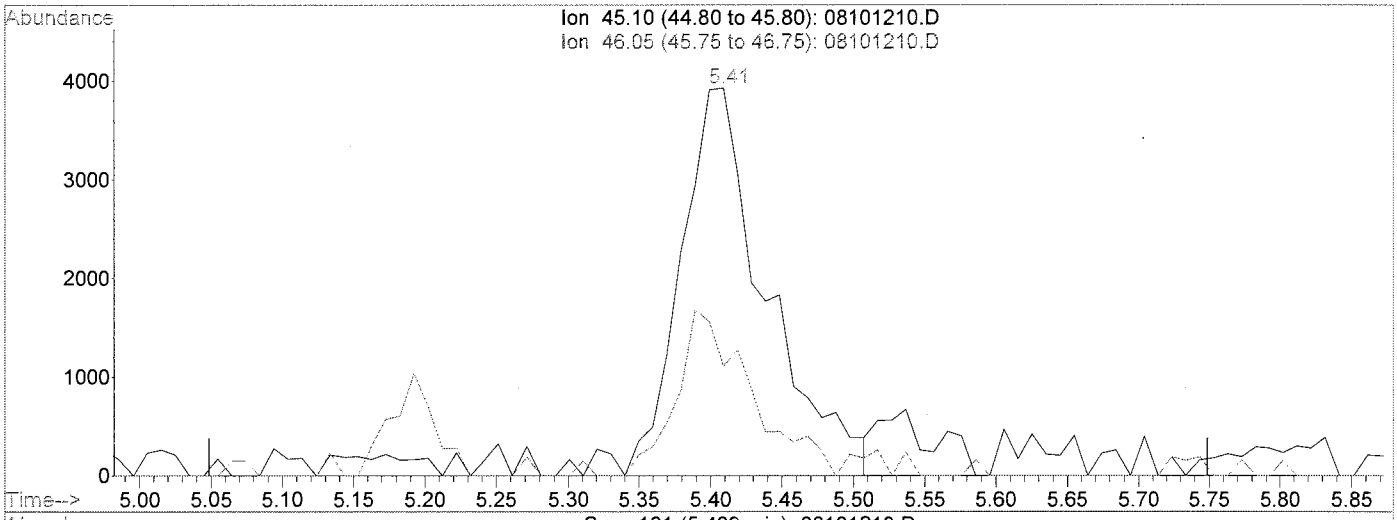
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

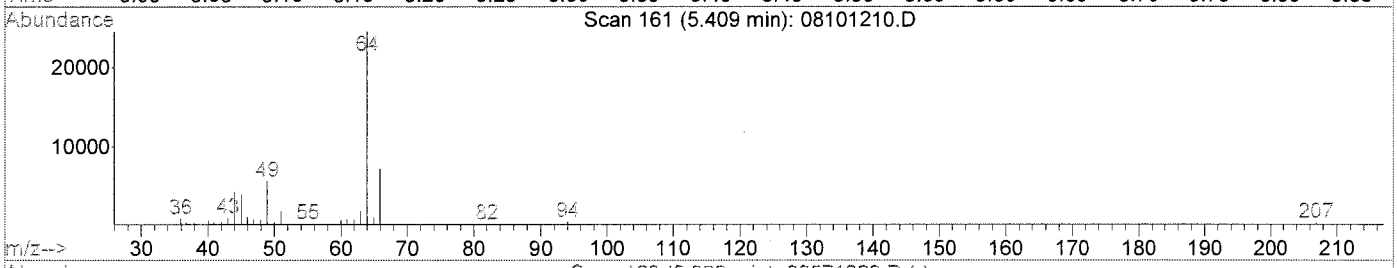


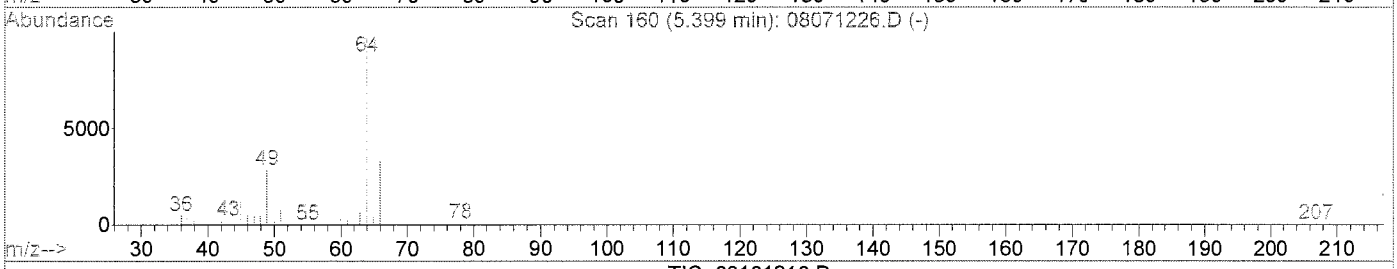
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 452.57ug/L

response 16581

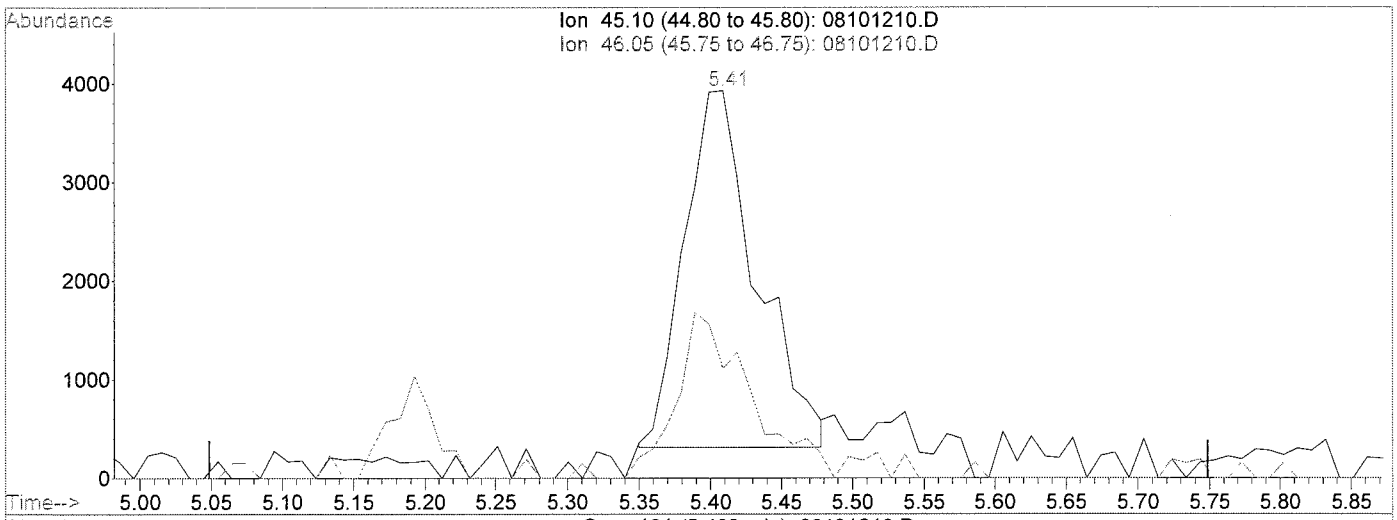
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	36.61
0.00	0.00	0.00
0.00	0.00	0.00

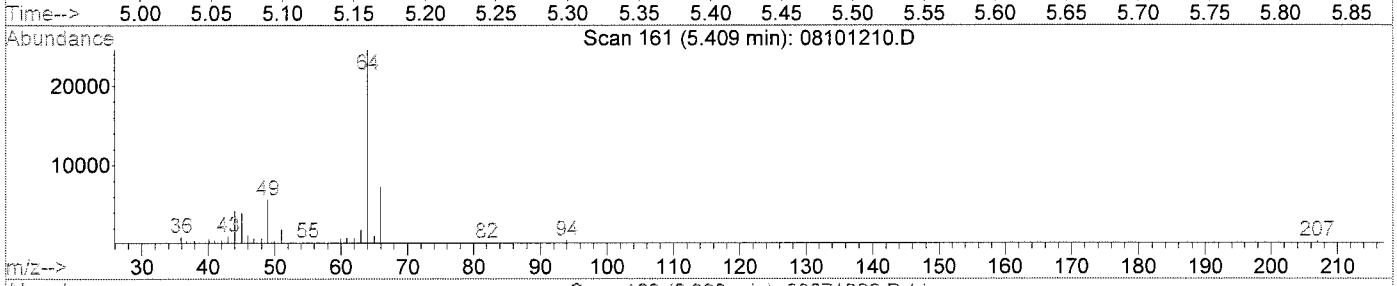
8/13/12
BL
MM 8/13/12

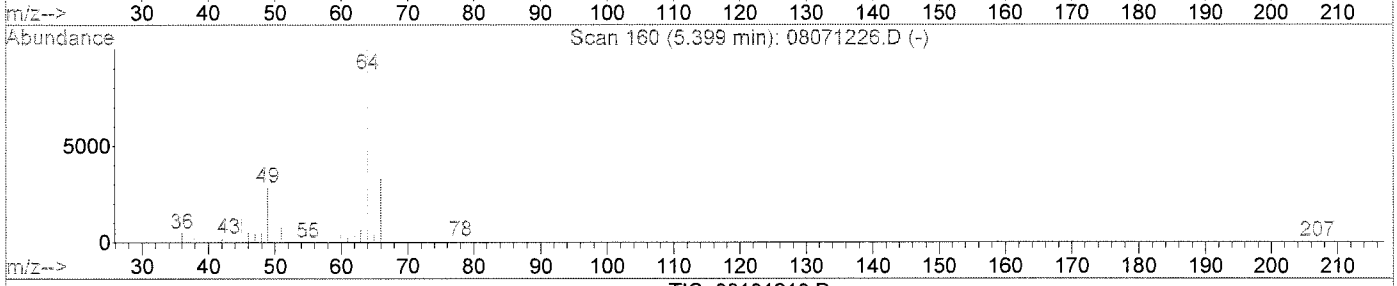
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 348.44ug/L m

response 12766

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

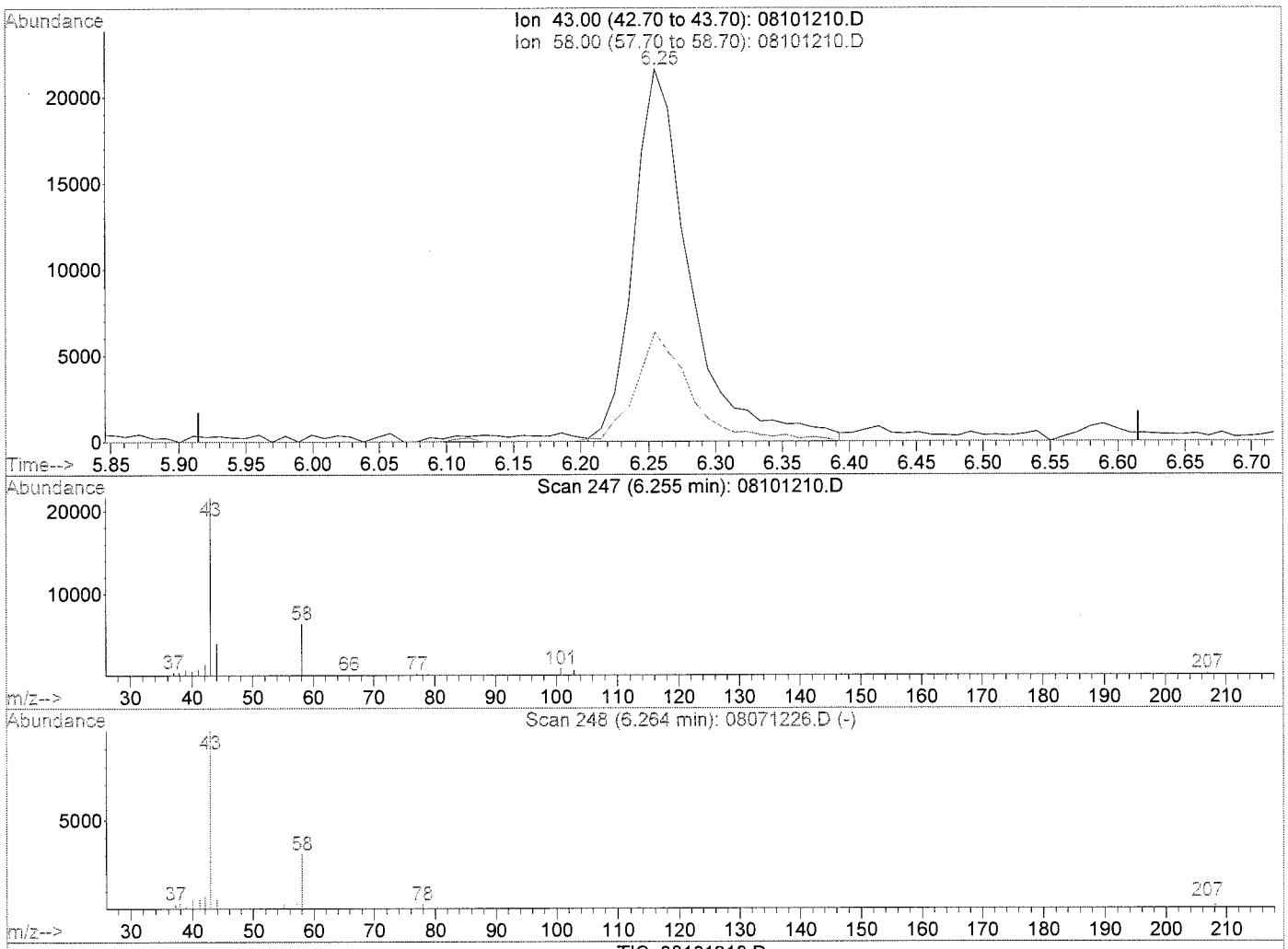
8/13/12

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



8/13/12

(12) Acetone (T)

6.25min 58.37ug/L

response 63143

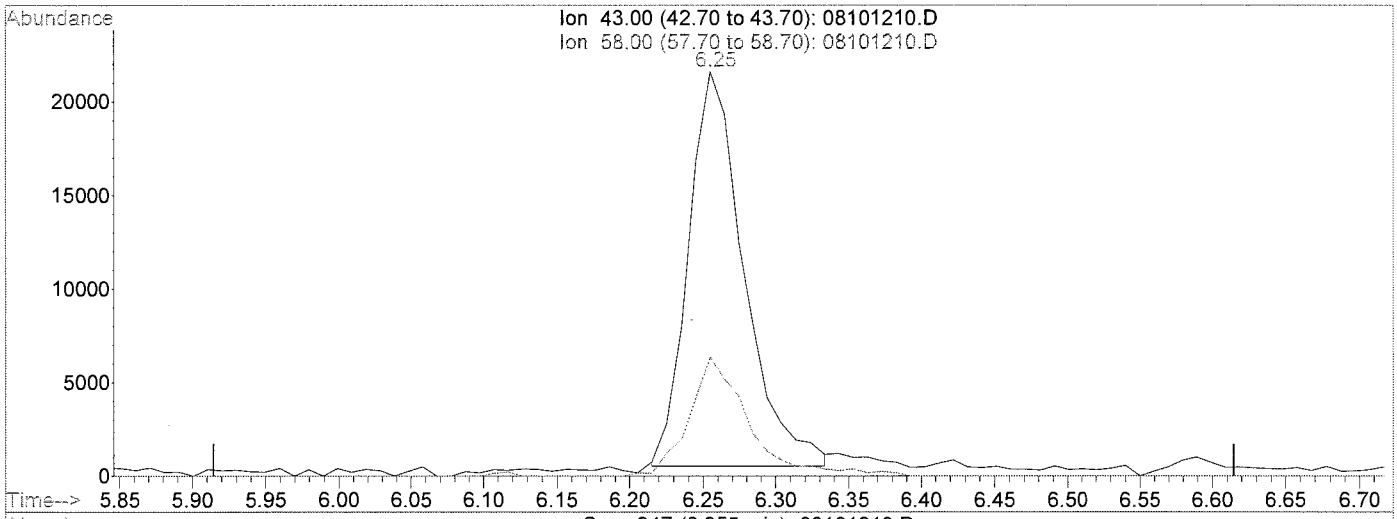
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

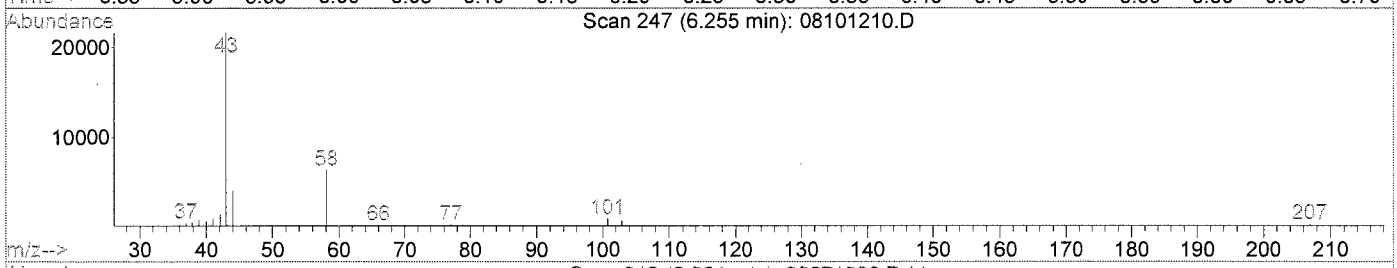
BL MNM 8/13/12

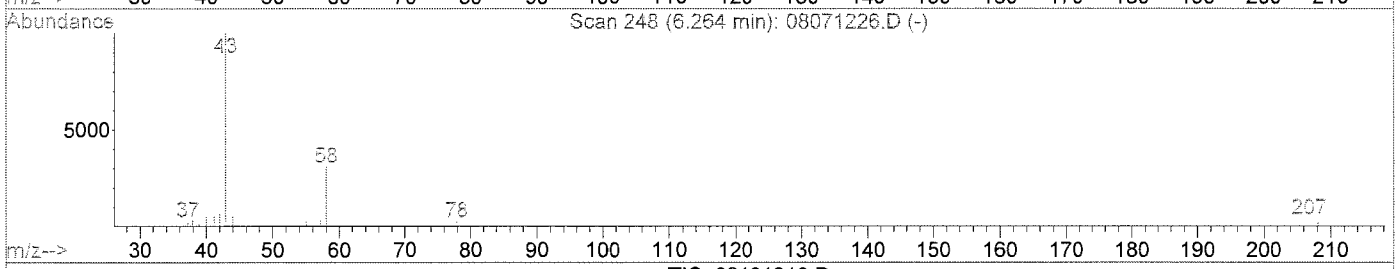
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 51.71ug/L m

response 55932

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.32#
0.00	0.00	0.00
0.00	0.00	0.00

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	218809	54.12	ug/L	0.00
Spiked Amount 25.000			Recovery	=	216.48%	
48) Toluene-d8	13.33	98	687603	51.75	ug/L	0.00
Spiked Amount 25.000			Recovery	=	207.00%	
62) 4-Bromofluorobenzene	16.96	95	191956	48.87	ug/L	0.00
Spiked Amount 25.000			Recovery	=	195.48%	
Target Compounds						Qvalue
2) Ethanol	5.41	45	12766m	348.44	ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	229.78	ug/L	98
5) Dichlorodifluoromethane	4.11	85	495471	52.70	ug/L	98
6) Chloromethane	4.36	50	463586	47.80	ug/L	100
7) Vinyl Chloride	4.63	62	430153	56.30	ug/L	99
8) 1,3-Butadiene	4.79	54	236893	53.58	ug/L	90
9) Bromomethane	5.19	94	266149	54.04	ug/L	98
10) Chloroethane	5.38	64	224829	53.22	ug/L	95
11) Trichlorofluoromethane	6.12	101	394660	48.80	ug/L	100
12) Acetone	6.25	43	55932m	51.71	ug/L	
13) Iodomethane	6.86	142	447731	51.73	ug/L	93
14) 1,1-Dichloroethene	6.81	96	253470	53.37	ug/L #	77
15) Methylene Chloride	7.00	84	232960	49.18	ug/L	87
16) Freon 113	7.07	101	270520	50.78	ug/L	99
17) Carbon disulfide	7.30	76	898748	51.58	ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	303726	59.07	ug/L	91
19) MTBE	8.01	73	432429	51.81	ug/L	99
20) 1,1-Dichloroethane	8.18	63	476710	54.34	ug/L	98
21) Vinyl Acetate	8.34	43	345852	50.60	ug/L #	95
22) n-Hexane	8.69	86	77107	63.23	ug/L	78
23) 2-Butanone (MEK)	8.72	72	17742	58.03	ug/L #	70
24) Diisopropyl Ether (DIPE)	8.73	45	798842	53.65	ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	279884	61.29	ug/L	88
26) Bromochloromethane	9.12	128	116879	60.79	ug/L	97
27) Chloroform	9.18	83	417208	54.86	ug/L #	94
28) 2,2-Dichloropropane	9.27	77	310117	48.46	ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	52.09	ug/L	96
31) Tetrahydrofuran	9.60	72	16252	53.21	ug/L	79
32) 1,2-Dichloroethane	10.01	62	203344	45.78	ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	353898	53.82	ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	466510	55.73	ug/L	92
36) 1,1-Dichloropropene	10.38	75	398689	52.55	ug/L	96
37) Carbon Tetrachloride	10.61	117	317819	47.76	ug/L	98
38) Benzene	10.66	78	947346	53.88	ug/L #	91
39) Dibromomethane	11.39	93	114917	54.08	ug/L	94
40) 1,2-Dichloropropane	11.44	63	221264	51.47	ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	53.95 ug/L	97
42) Bromodichloromethane	11.55	83	271789	50.29 ug/L	97
43) 2-Chlorovinylethylether	12.09	63	88468	64.86 ug/L	95
44) cis-1,3-Dichloropropene	12.38	75	321115	57.35 ug/L #	83
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	41.86 ug/L	99
46) trans-1,3-Dichloropropene	12.95	75	237953	47.29 ug/L #	84
47) 1,1,2-Trichloroethane	13.17	97	137777	55.59 ug/L	91
49) Toluene	13.42	92	546857	58.28 ug/L	98
51) 1,3-Dichloropropane	13.48	76	244280	53.12 ug/L	99
52) 2-Hexanone	13.68	43	100587	49.14 ug/L #	88
53) Dibromochloromethane	13.85	129	183912	55.09 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	54.39 ug/L	96
55) Tetrachloroethene	14.41	164	226510	51.21 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	51.39 ug/L	97
57) Chlorobenzene	15.32	112	554587	58.64 ug/L	94
58) Ethylbenzene	15.58	91	975473	56.56 ug/L	96
59) m,p-Xylenes	15.85	106	377996	60.35 ug/L	91
60) Styrene	16.30	104	514481	62.85 ug/L #	92
61) o-Xylene	16.40	106	349209	61.28 ug/L	91
64) Bromoform	16.01	173	108591	47.26 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	52.54 ug/L	97
66) 1,2,3-Trichloropropane	16.59	110	37829	48.36 ug/L	99
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	41.70 ug/L #	75
68) Isopropylbenzene	16.90	105	857226	53.54 ug/L	97
69) Bromobenzene	17.25	156	212979	51.54 ug/L	92
70) n-Propylbenzene	17.51	91	1098531	54.22 ug/L	98
71) 2-Chlorotoluene	17.65	91	577687	49.10 ug/L	96
72) 4-Chlorotoluene	17.75	91	568985	50.86 ug/L	93
73) 1,3,5-Trimethylbenzene	17.91	105	676601	54.29 ug/L	95
74) tert-Butylbenzene	18.30	119	601956	53.60 ug/L	92
75) 1,2,4-Trimethylbenzene	18.46	105	638890	54.52 ug/L	95
76) sec-Butylbenzene	18.61	105	960020	56.47 ug/L	98
77) 1,3-Dichlorobenzene	18.72	146	388318	55.49 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	375463	56.84 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	58.52 ug/L	95
80) 1,2-Dichlorobenzene	19.28	146	317732	56.00 ug/L	99
81) n-Butylbenzene	19.39	91	715599	60.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	48.97 ug/L	84
83) 1,2,4-Trichlorobenzene	21.51	180	170461	56.69 ug/L	100
84) Napthalene	21.83	128	258045	55.90 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	36.05 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	55.90 ug/L	98

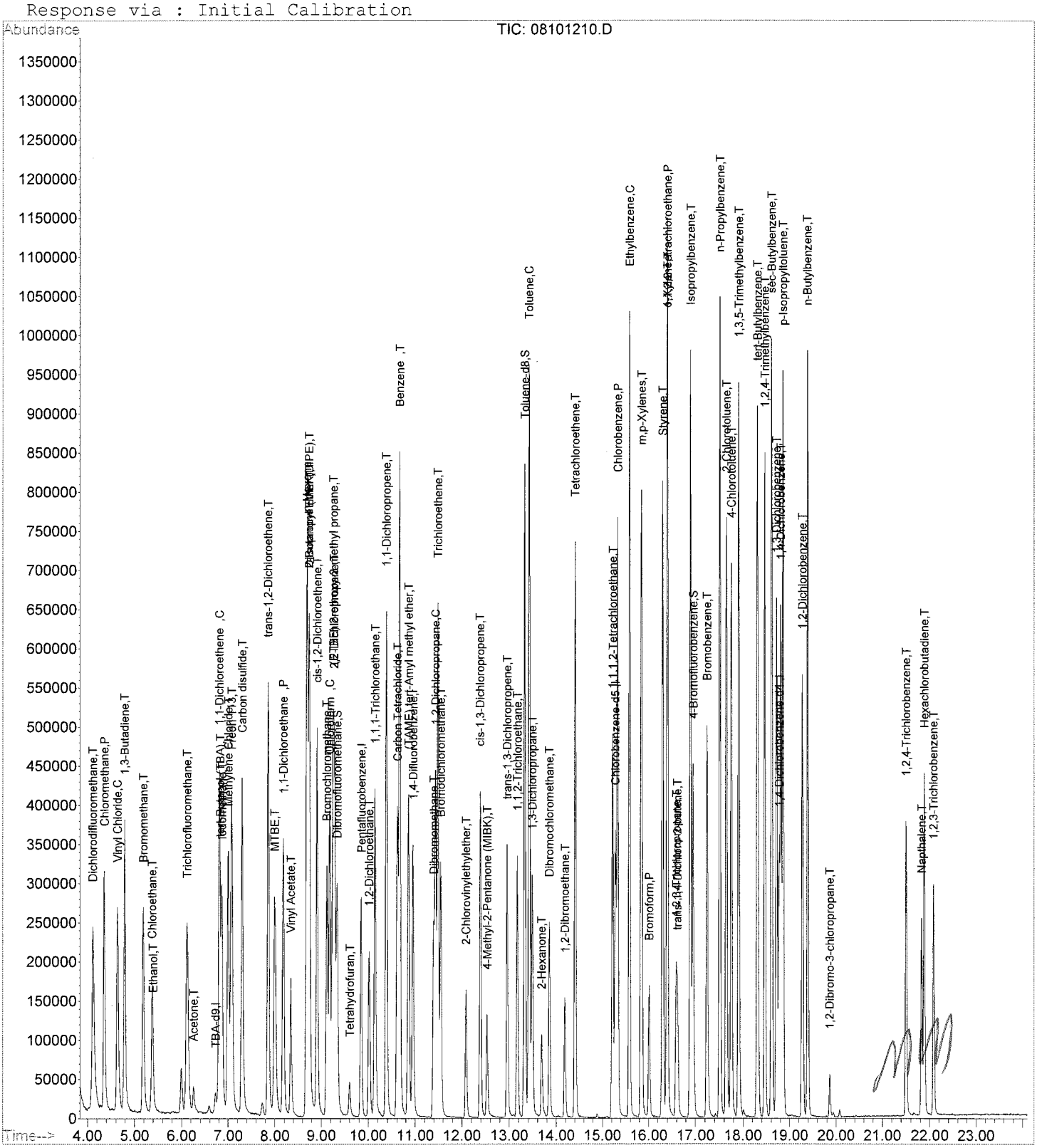
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

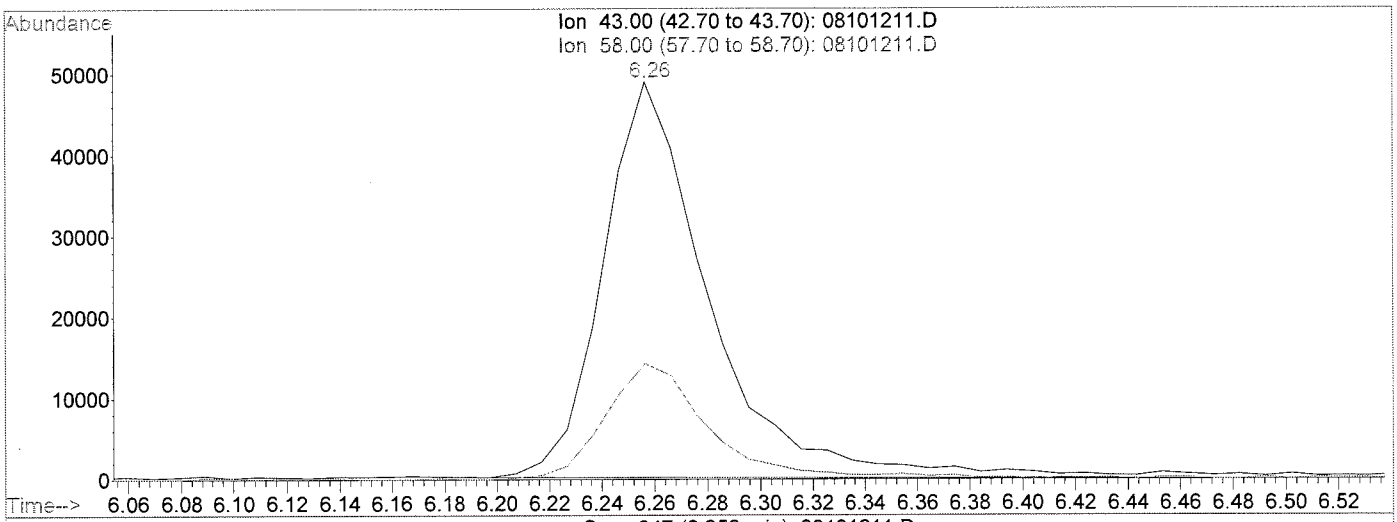
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

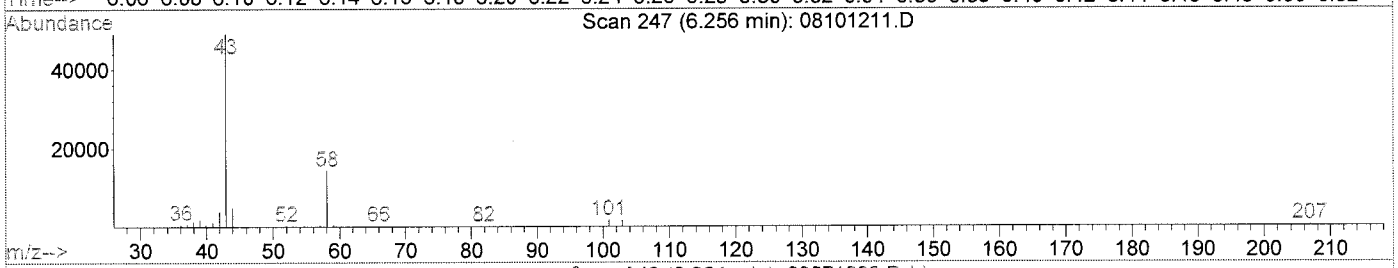


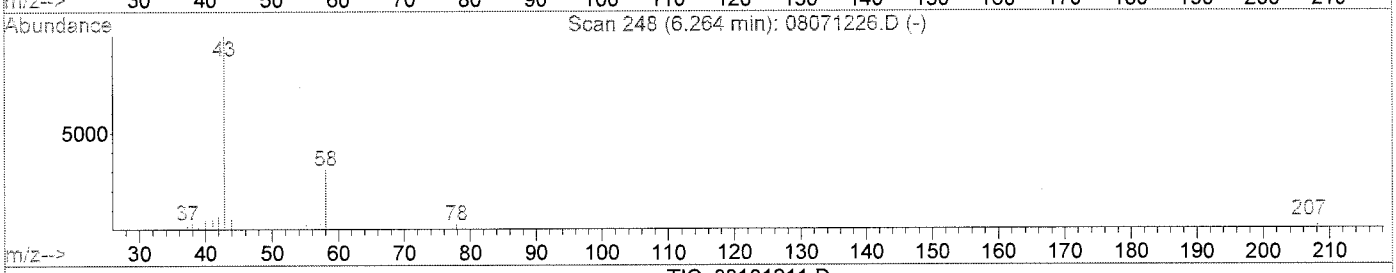
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 124.13ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

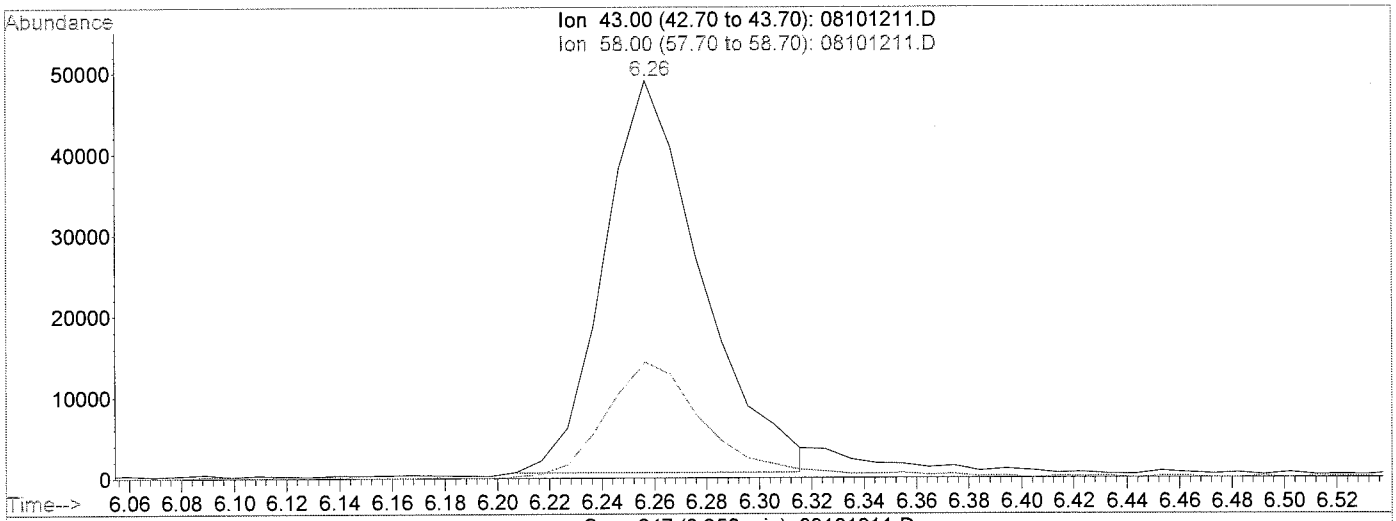
BL

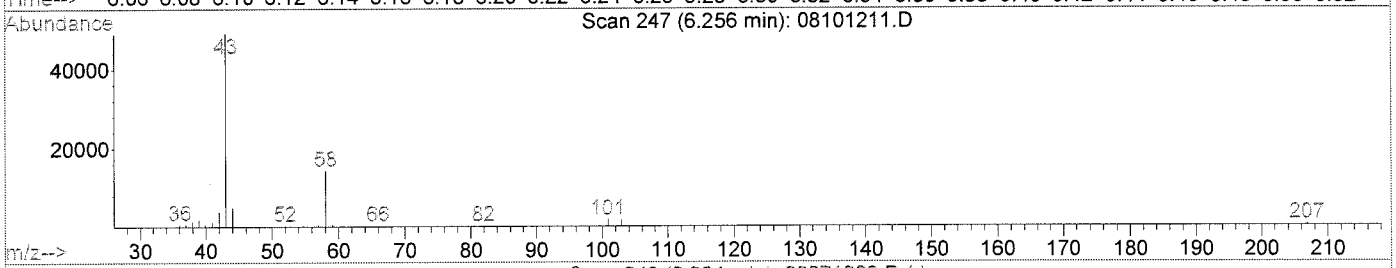
MM 8/13/12

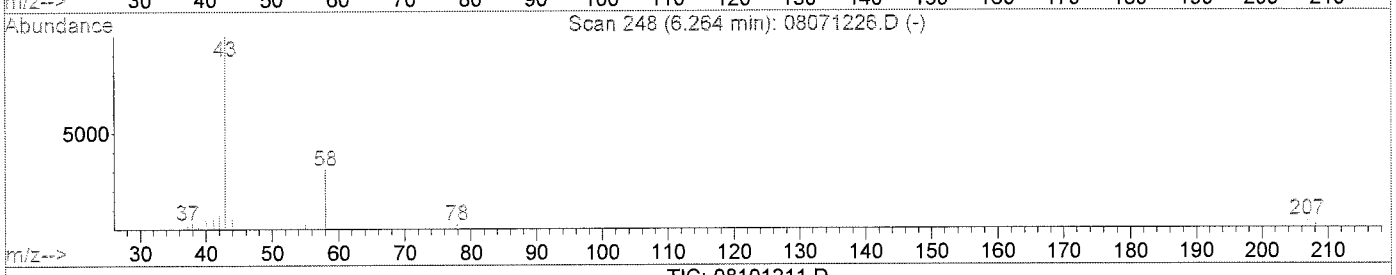
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 112.83ug/L m

response 124363

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	31.75#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	112.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 448.96%	
48) Toluene-d8	13.33	98	1402084	102.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 409.44%	
62) 4-Bromofluorobenzene	16.96	95	412368	103.79 ug/L	0.00
Spiked Amount 25.000			Recovery	= 415.16%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	845.73 ug/L	87
3) tert-Butanol (TBA)	6.84	59	168336	487.29 ug/L	98
5) Dichlorodifluoromethane	4.11	85	964320	100.65 ug/L	100
6) Chloromethane	4.35	50	890682	90.12 ug/L	99
7) Vinyl Chloride	4.63	62	798541	102.57 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	102.57 ug/L	91
9) Bromomethane	5.18	94	525441	104.71 ug/L	97
10) Chloroethane	5.38	64	441624	102.59 ug/L	97
11) Trichlorofluoromethane	6.11	101	763247	92.62 ug/L	98
12) Acetone	6.26	43	124363m	112.83 ug/L	
13) Iodomethane	6.87	142	901113	102.17 ug/L	94
14) 1,1-Dichloroethene	6.81	96	508761	105.12 ug/L #	76
15) Methylene Chloride	7.00	84	470851	97.56 ug/L	86
16) Freon 113	7.07	101	528427	97.35 ug/L	99
17) Carbon disulfide	7.30	76	1756954	98.95 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	597492	114.05 ug/L	88
19) MTBE	8.01	73	913608	107.43 ug/L	99
20) 1,1-Dichloroethane	8.18	63	943450	105.54 ug/L	98
21) Vinyl Acetate	8.34	43	745936	107.10 ug/L #	96
22) n-Hexane	8.69	86	148544	119.54 ug/L	80
23) 2-Butanone (MEK)	8.73	72	42692	137.03 ug/L #	31
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	108.15 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	568187	122.11 ug/L	88
26) Bromochloromethane	9.12	128	236072	120.50 ug/L	98
27) Chloroform	9.18	83	844569	108.99 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	597220	91.59 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	107.12 ug/L	96
31) Tetrahydrofuran	9.60	72	36606	117.61 ug/L #	75
32) 1,2-Dichloroethane	10.01	62	408116	90.17 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	706415	105.43 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	119.50 ug/L	91
36) 1,1-Dichloropropene	10.38	75	752175	96.17 ug/L	95
37) Carbon Tetrachloride	10.61	117	629787	91.80 ug/L	98
38) Benzene	10.66	78	1918047	105.83 ug/L #	91
39) Dibromomethane	11.39	93	240215	109.65 ug/L	94
40) 1,2-Dichloropropane	11.44	63	454008	102.45 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.49	95	523897	103.35 ug/L		96
42)	Bromodichloromethane	11.55	83	571821	102.64 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	190358	122.05 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	663914	115.02 ug/L	#	82
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	91.20 ug/L		94
46)	trans-1,3-Dichloropropene	12.95	75	509355	97.85 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	286704	112.22 ug/L	#	90
49)	Toluene	13.43	92	1076337	111.27 ug/L		97
51)	1,3-Dichloropropane	13.49	76	517001	111.13 ug/L		99
52)	2-Hexanone	13.68	43	235539	113.74 ug/L	#	89
53)	Dibromochloromethane	13.85	129	396223	117.33 ug/L		99
54)	1,2-Dibromoethane	14.18	107	308443	116.56 ug/L		97
55)	Tetrachloroethene	14.41	164	452394	101.11 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	101.04 ug/L		95
57)	Chlorobenzene	15.33	112	1118631	116.92 ug/L		93
58)	Ethylbenzene	15.58	91	1923271	110.23 ug/L		96
59)	m,p-Xylenes	15.85	106	762608	120.37 ug/L		90
60)	Styrene	16.30	104	1032436	124.69 ug/L	#	92
61)	o-Xylene	16.40	106	651161	112.96 ug/L		92
64)	Bromoform	16.01	173	219950	89.79 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	104.83 ug/L		97
66)	1,2,3-Trichloropropane	16.59	110	78214	103.05 ug/L		100
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	88.29 ug/L	#	76
68)	Isopropylbenzene	16.90	105	1628971	104.87 ug/L		98
69)	Bromobenzene	17.24	156	425714	106.19 ug/L		93
70)	n-Propylbenzene	17.51	91	2114087	107.55 ug/L		98
71)	2-Chlorotoluene	17.65	91	1126734	98.72 ug/L		95
72)	4-Chlorotoluene	17.75	91	1125554	103.70 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	102.08 ug/L		95
74)	tert-Butylbenzene	18.31	119	1083175	99.41 ug/L		92
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	103.46 ug/L		95
76)	sec-Butylbenzene	18.61	105	1705621	103.42 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	699081	102.97 ug/L		98
78)	1,4-Dichlorobenzene	18.82	146	702424	109.61 ug/L		97
79)	p-Isopropyltoluene	18.86	119	1317395	107.06 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	538352	97.79 ug/L		99
81)	n-Butylbenzene	19.40	91	1266655	111.28 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	79.94 ug/L	#	78
83)	1,2,4-Trichlorobenzene	21.50	180	271631	93.12 ug/L		99
84)	Napthalene	21.83	128	441804	98.64 ug/L		99
85)	Hexachlorobutadiene	21.89	225	166042	67.42 ug/L		99
86)	1,2,3-Trichlorobenzene	22.08	180	218534	95.26 ug/L		97

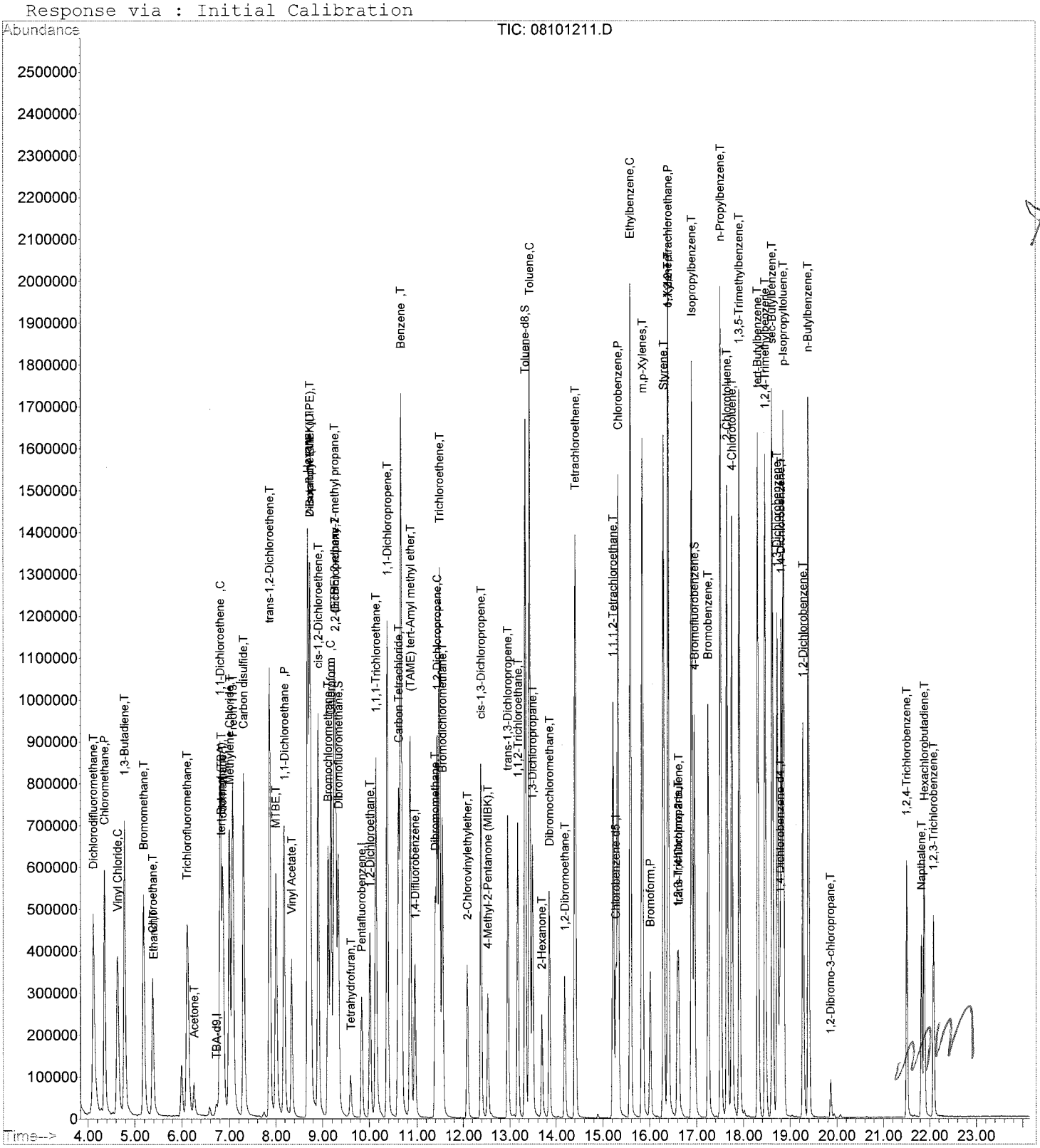
MNM

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

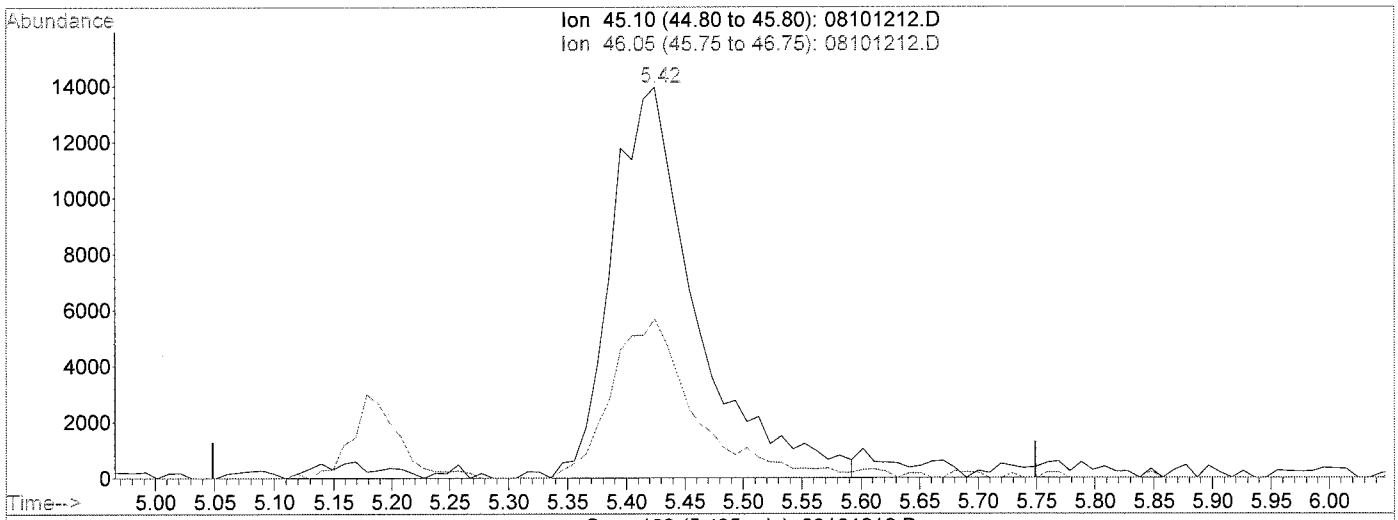
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

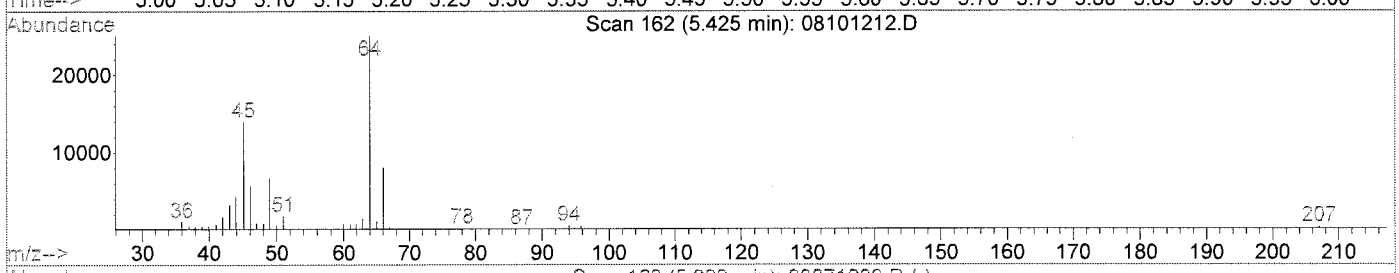


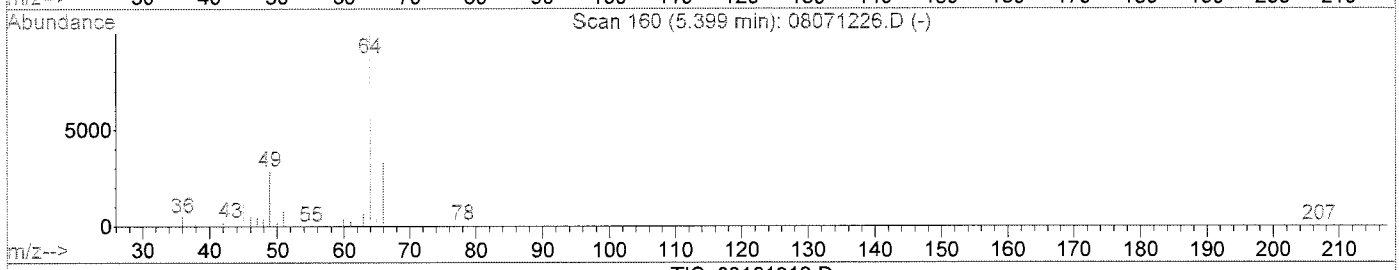
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2144.22ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	40.18
0.00	0.00	0.00
0.00	0.00	0.00

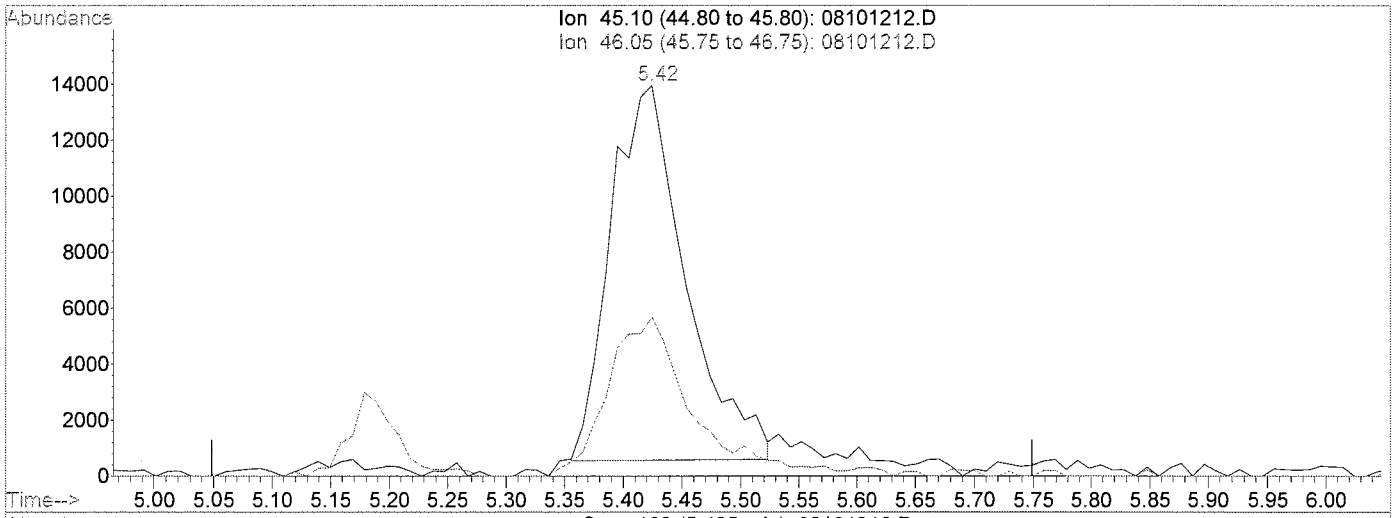
8/13/12

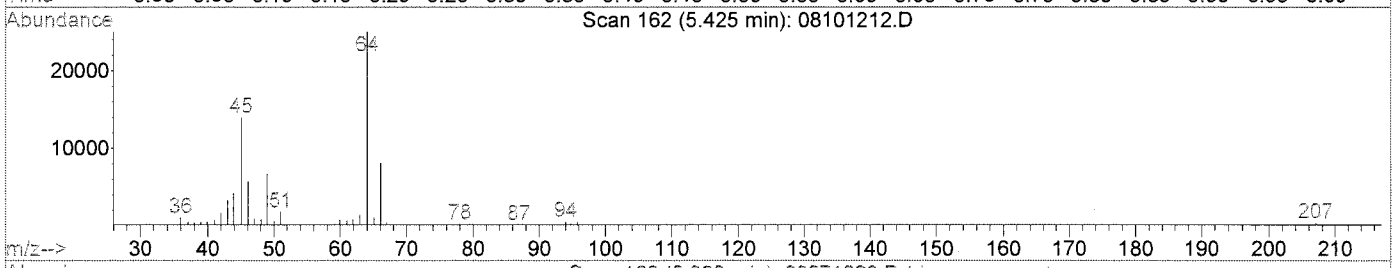
DL MM 8/13/12

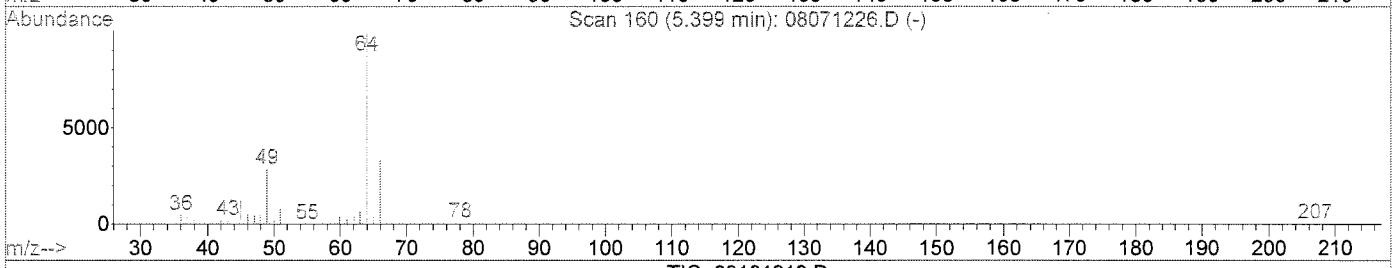
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 1816.70ug/L m

response 59372

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.42
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

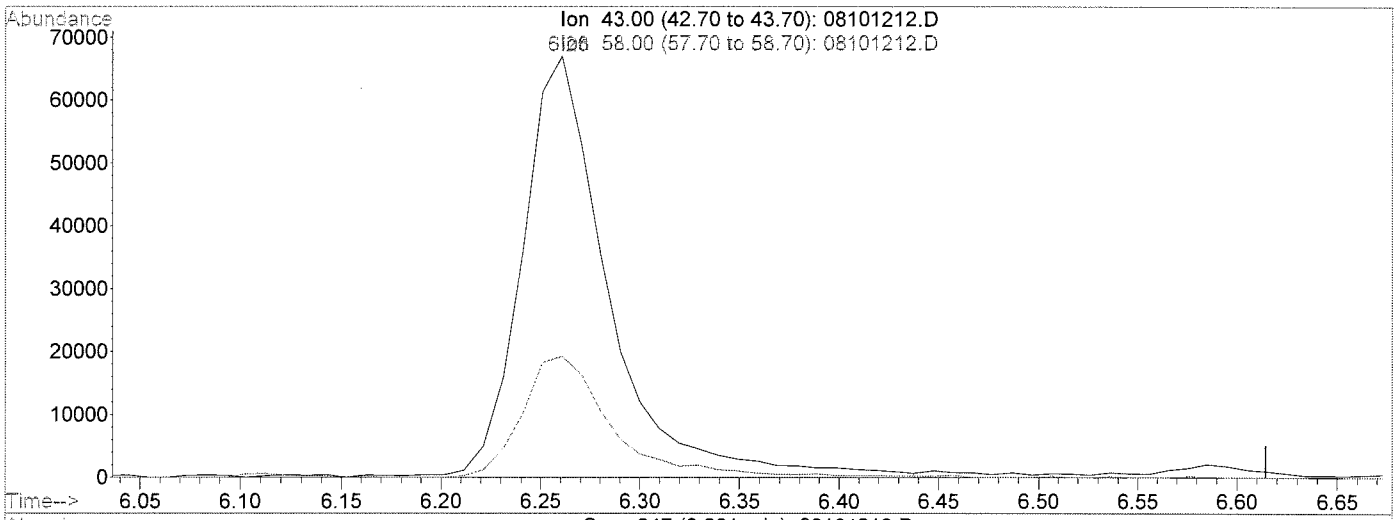
A

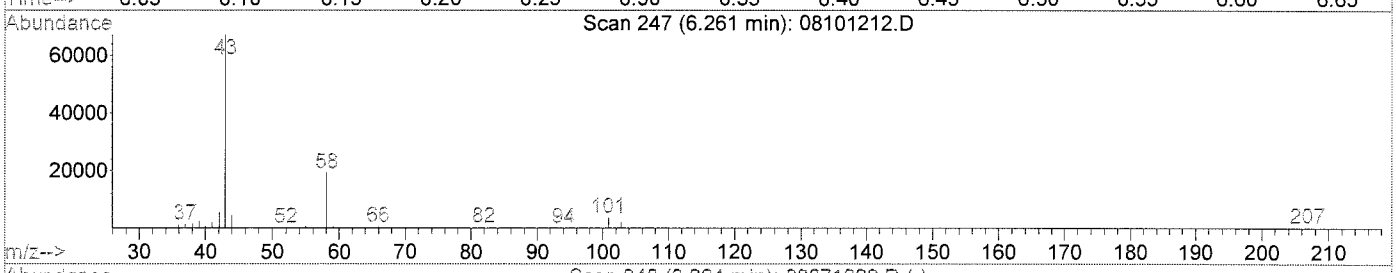
MM 8/13/12

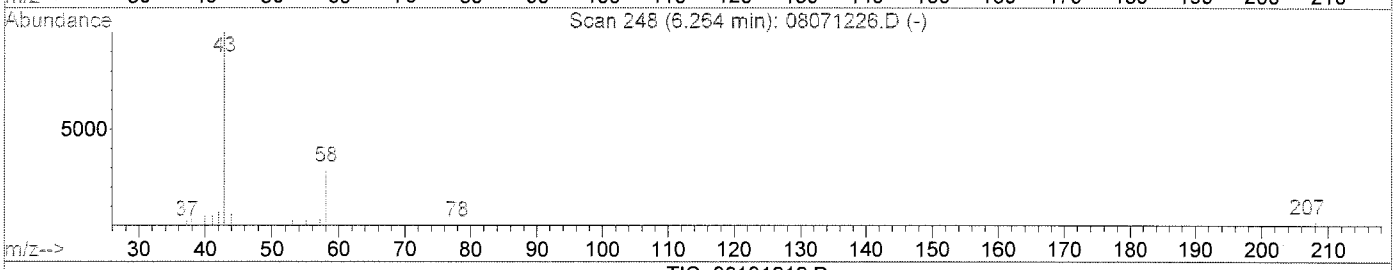
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 191.80ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	29.87#
0.00	0.00	0.00
0.00	0.00	0.00

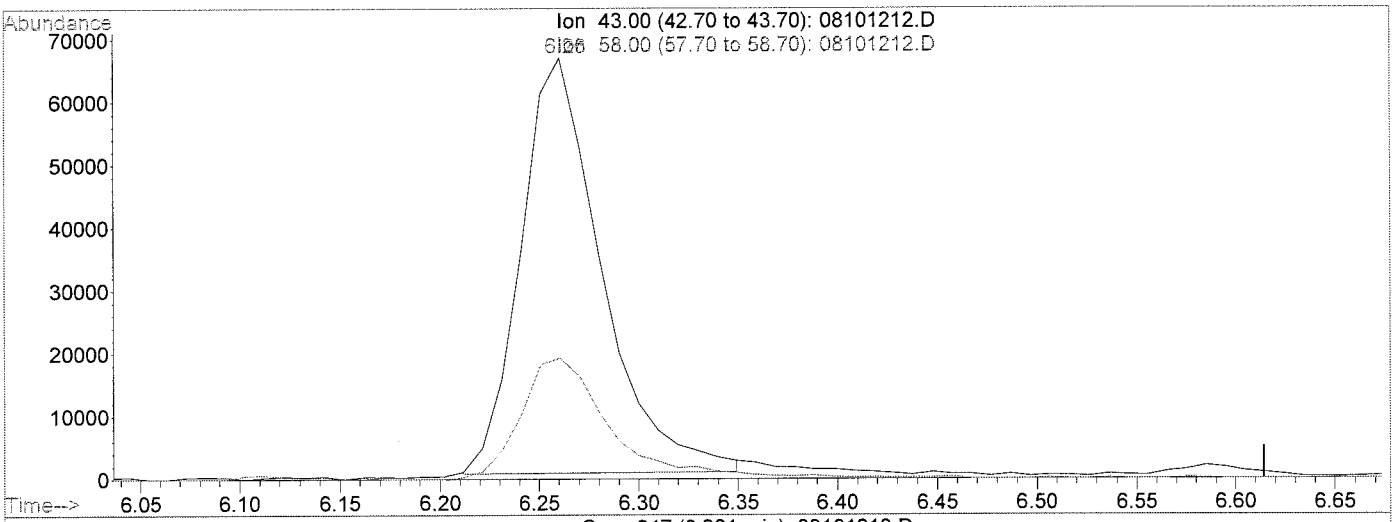
BL

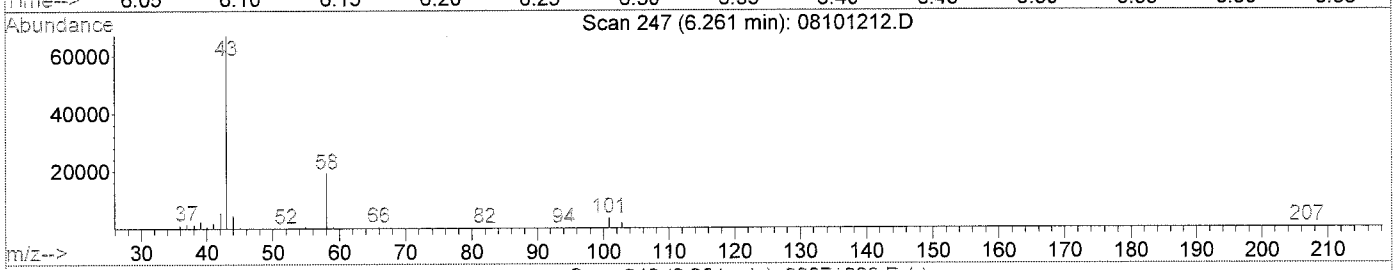
MM 8/13/12

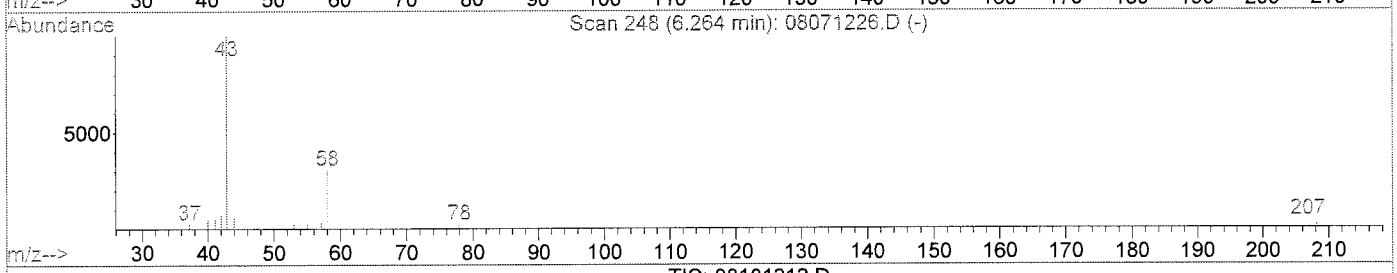
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 175.08ug/L m

response 186273

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.72#
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	232.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 930.60%	
48) Toluene-d8	13.33	98	2766585	213.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 855.28%	
62) 4-Bromofluorobenzene	16.96	95	772758	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59372m	1816.70 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1088.44 ug/L	97
5) Dichlorodifluoromethane	4.12	85	1798928	194.53 ug/L	100
6) Chloromethane	4.35	50	1636489	171.54 ug/L	100
7) Vinyl Chloride	4.62	62	1314727	174.95 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	198.47 ug/L	91
9) Bromomethane	5.19	94	991158	204.62 ug/L	97
10) Chloroethane	5.38	64	798291	192.12 ug/L	97
11) Trichlorofluoromethane	6.11	101	1442227	181.32 ug/L	98
12) Acetone	6.26	43	186273m	175.08 ug/L	
13) Iodomethane	6.86	142	1691791	198.72 ug/L	94
14) 1,1-Dichloroethene	6.80	96	959183	205.33 ug/L #	75
15) Methylene Chloride	7.00	84	866879	186.08 ug/L	86
16) Freon 113	7.07	101	1005834	191.97 ug/L	99
17) Carbon disulfide	7.30	76	3351895	195.57 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	1151435	227.70 ug/L	88
19) MTBE	8.00	73	1705610	207.77 ug/L	99
20) 1,1-Dichloroethane	8.18	63	1809927	209.75 ug/L	97
21) Vinyl Acetate	8.34	43	1413743	210.29 ug/L #	94
22) n-Hexane	8.69	86	285278	237.85 ug/L	76
23) 2-Butanone (MEK)	8.72	72	74546	247.88 ug/L #	32
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	211.74 ug/L	95
25) cis-1,2-Dichloroethene	8.92	96	1089239	242.53 ug/L	86
26) Bromochloromethane	9.12	128	469231	248.13 ug/L	86
27) Chloroform	9.18	83	1657554	221.61 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	1146423	182.15 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	208.43 ug/L	95
31) Tetrahydrofuran	9.60	72	68814	229.05 ug/L #	76
32) 1,2-Dichloroethane	10.02	62	794737	181.92 ug/L	97
33) 1,1,1-Trichloroethane	10.15	97	1389872	214.91 ug/L	93
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	224.30 ug/L #	91
36) 1,1-Dichloropropene	10.38	75	1491816	201.91 ug/L	96
37) Carbon Tetrachloride	10.61	117	1253531	193.43 ug/L	98
38) Benzene	10.67	78	3652383	213.32 ug/L #	91
39) Dibromomethane	11.40	93	460678	222.61 ug/L	96
40) 1,2-Dichloropropane	11.43	63	868011	207.34 ug/L #	90

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

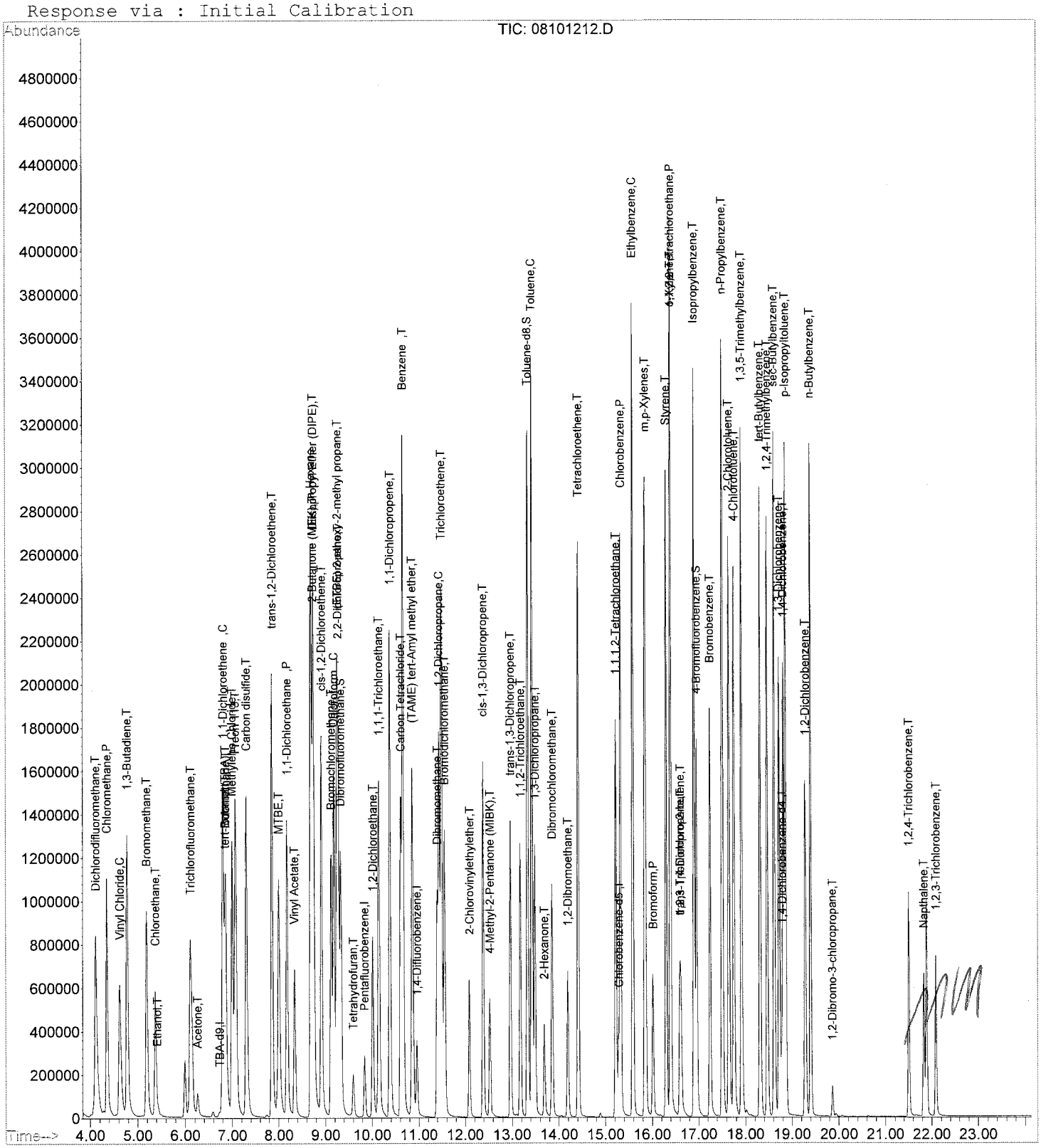
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	214.05 ug/L		95
42)	Bromodichloromethane	11.55	83	1076186	204.48 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	356836	210.26 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	1241936	227.77 ug/L	#	83
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	172.10 ug/L		95
46)	trans-1,3-Dichloropropene	12.96	75	974996	197.95 ug/L	#	84
47)	1,1,2-Trichloroethane	13.18	97	546786	226.55 ug/L	#	88
49)	Toluene	13.42	92	2055027	224.89 ug/L		96
51)	1,3-Dichloropropane	13.49	76	938228	211.31 ug/L		98
52)	2-Hexanone	13.69	43	386586	195.60 ug/L	#	89
53)	Dibromochloromethane	13.85	129	760108	235.83 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	233.17 ug/L		98
55)	Tetrachloroethene	14.41	164	884667	207.16 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	208.94 ug/L		96
57)	Chlorobenzene	15.33	112	2070815	226.78 ug/L		92
58)	Ethylbenzene	15.59	91	3553977	213.43 ug/L		94
59)	m,p-Xylenes	15.85	106	1442112	238.49 ug/L		88
60)	Styrene	16.30	104	1948462	246.56 ug/L	#	92
61)	o-Xylene	16.40	106	1266882	230.27 ug/L		90
64)	Bromoform	16.02	173	438702	176.77 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	213.16 ug/L		98
66)	1,2,3-Trichloropropane	16.60	110	133888	205.80 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	159.35 ug/L	#	71
68)	Isopropylbenzene	16.90	105	3024067	227.13 ug/L		96
69)	Bromobenzene	17.25	156	802086	233.39 ug/L		93
70)	n-Propylbenzene	17.51	91	3823645	226.92 ug/L		96
71)	2-Chlorotoluene	17.65	91	2041028	208.61 ug/L		95
72)	4-Chlorotoluene	17.76	91	2058362	221.24 ug/L		93
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	220.67 ug/L		94
74)	tert-Butylbenzene	18.31	119	1933954	207.06 ug/L		92
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	218.28 ug/L		93
76)	sec-Butylbenzene	18.62	105	3047825	215.58 ug/L		97
77)	1,3-Dichlorobenzene	18.72	146	1267811	217.85 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	1231960	224.27 ug/L		97
79)	p-Isopropyltoluene	18.86	119	2345916	222.41 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	944274	200.10 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	222.74 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	153.64 ug/L	#	71
83)	1,2,4-Trichlorobenzene	21.51	180	455405	182.12 ug/L		99
84)	Napthalene	21.83	128	697402	181.65 ug/L		100
85)	Hexachlorobutadiene	21.89	225	262810	Below Cal		100
86)	1,2,3-Trichlorobenzene	22.09	180	329008	167.36 ug/L		97

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	292809	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	131913	24.56 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.24%	
48) Toluene-d8	13.33	98	397025	24.29 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.16%	
62) 4-Bromofluorobenzene	16.95	95	111862	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.88%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	543	18.33 ug/L #	21
9) Bromomethane	5.29	94	868	0.14 ug/L #	2
12) Acetone	6.25	43	1787	1.38 ug/L #	52
28) 2,2-Dichloropropane	9.30	77	770	0.10 ug/L #	66
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.36 ug/L #	27
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.13 ug/L #	37
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.11 ug/L #	61
84) Napthalene	21.84	128	1664	0.29 ug/L #	82
86) 1,2,3-Trichlorobenzene	22.07	180	380	Below Cal #	77

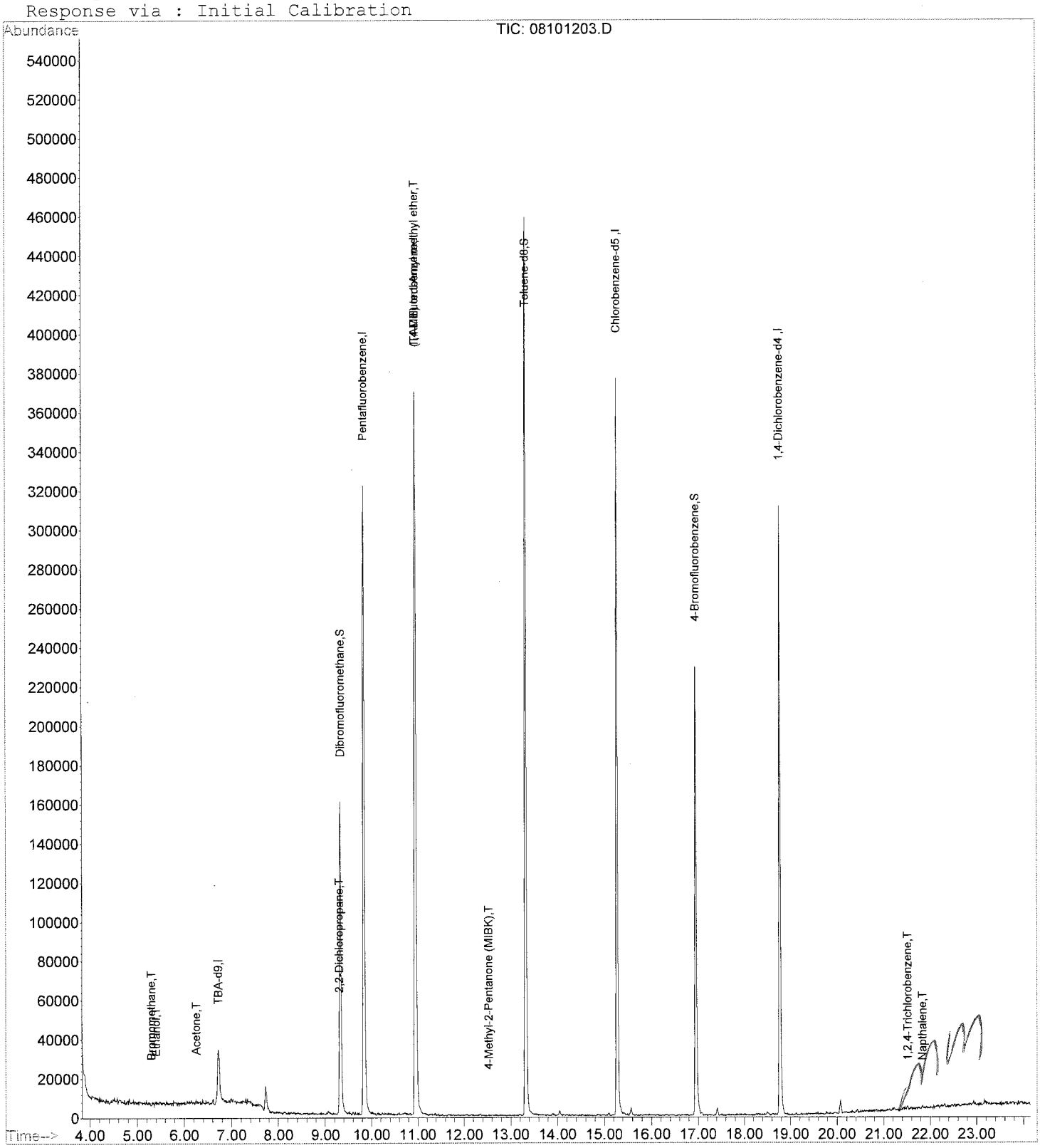
MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101203.D 081012.M Mon Aug 13 05:12:42 2012

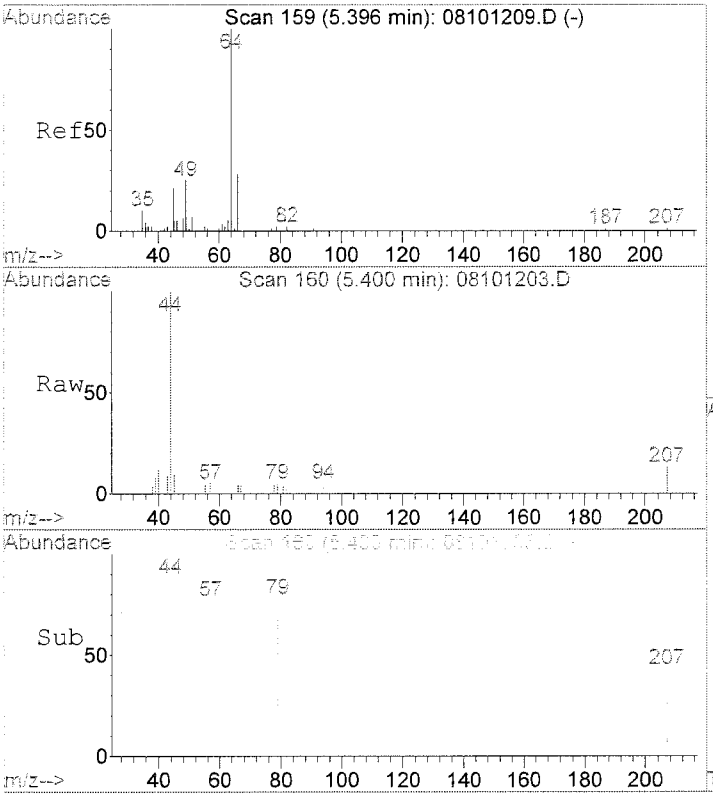
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



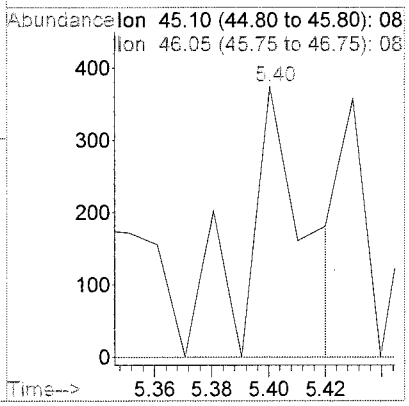
08101203.D 081012.M Mon Aug 13 05:12:43 2012

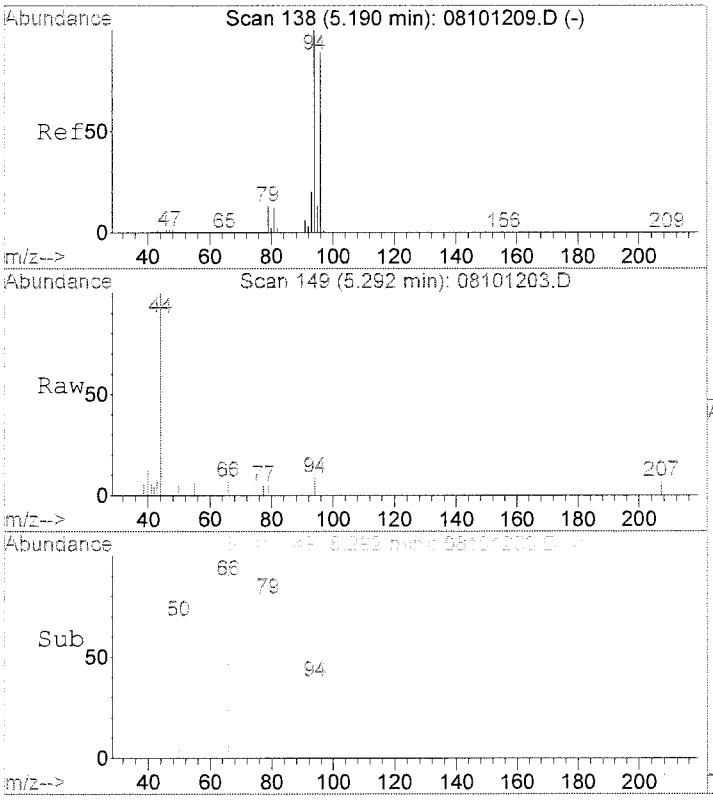


#2
Ethanol
Concen: 18.33 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 543

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.9	79.9#

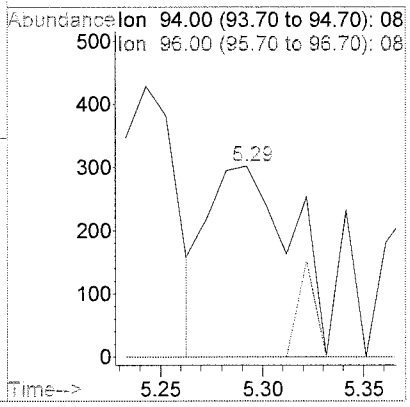


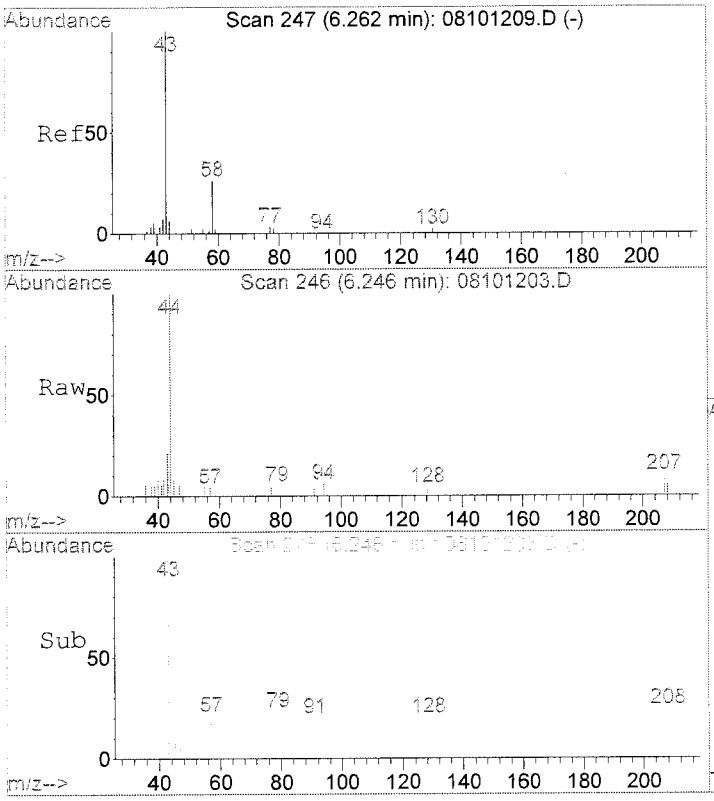


#9
Bromomethane
Concen: 0.14 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

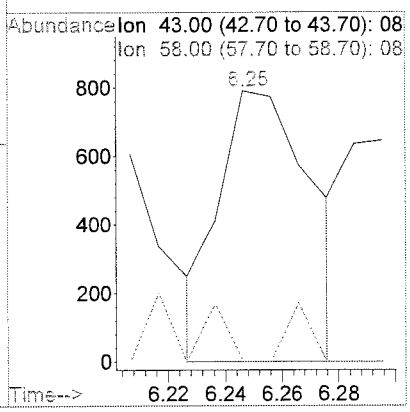


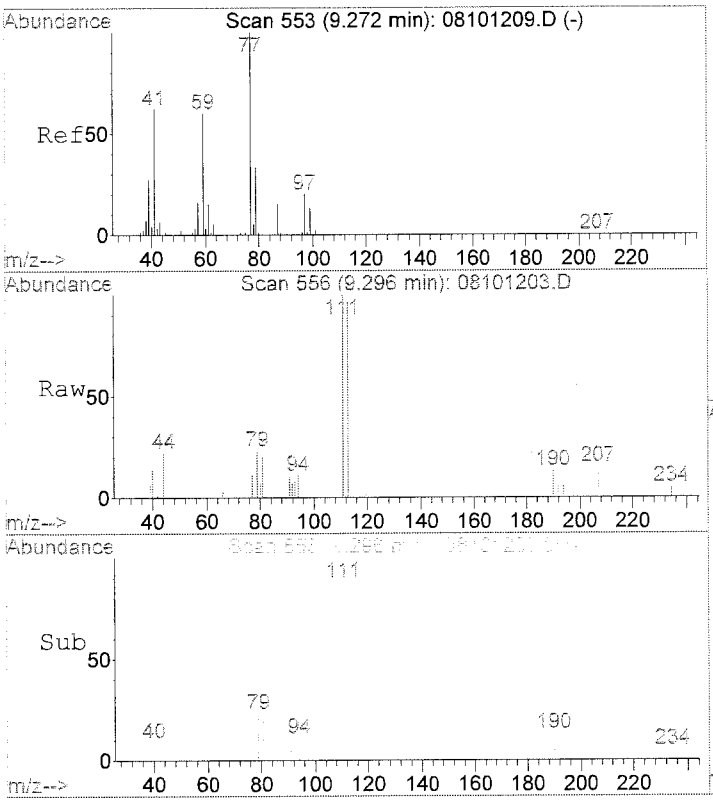


#12
Acetone
Concen: 1.38 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	25.9	38.9#

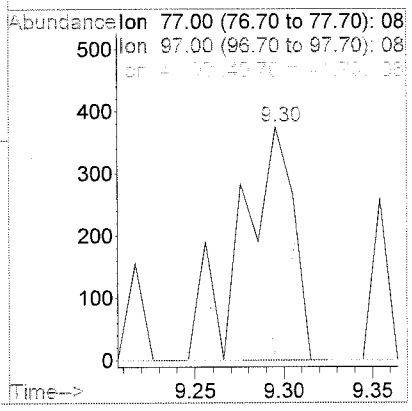


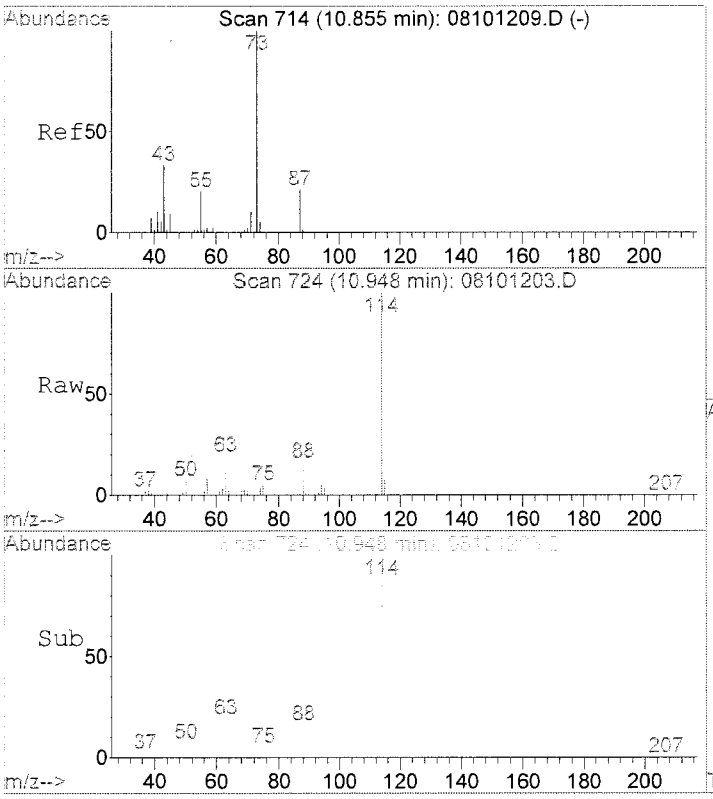


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.9	25.3#
41	52.9	64.1	96.1#

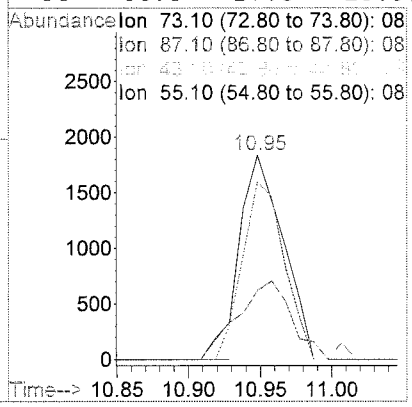


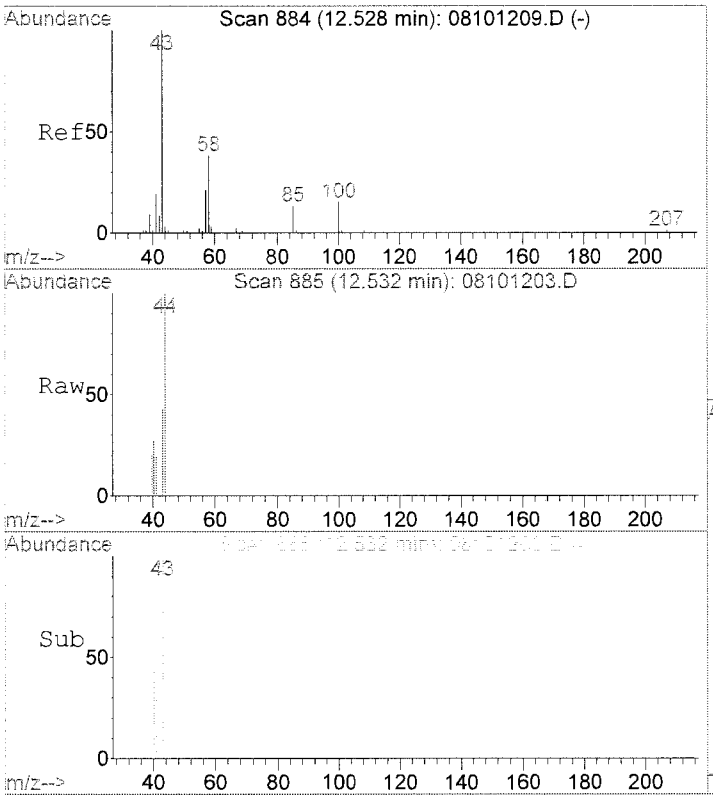


#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	16.4	24.6#
43	5.7	27.0	40.4#
55	46.5	17.3	25.9#

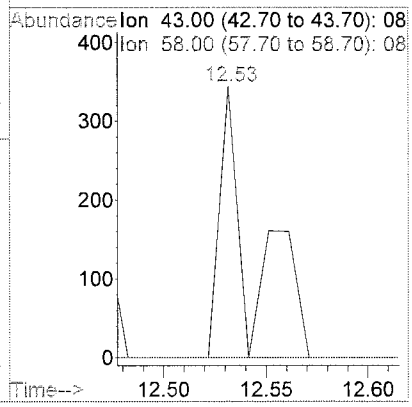


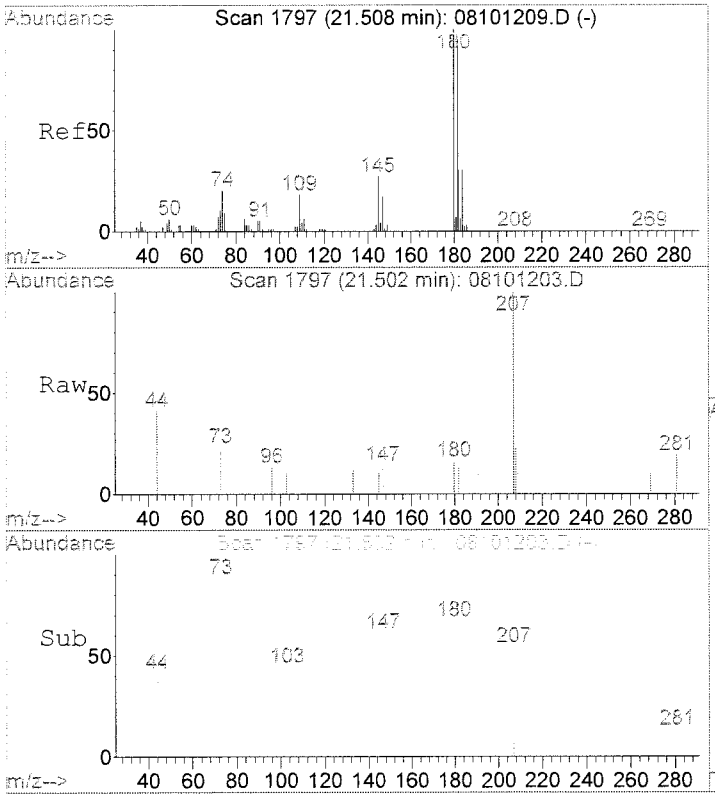


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.53 min Scan# 885
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

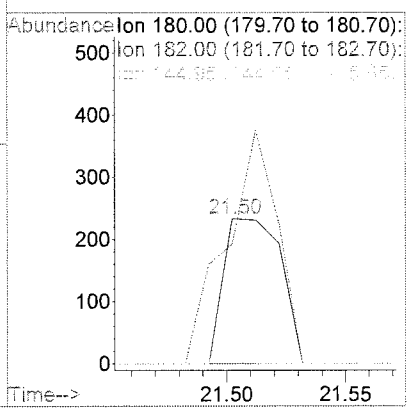


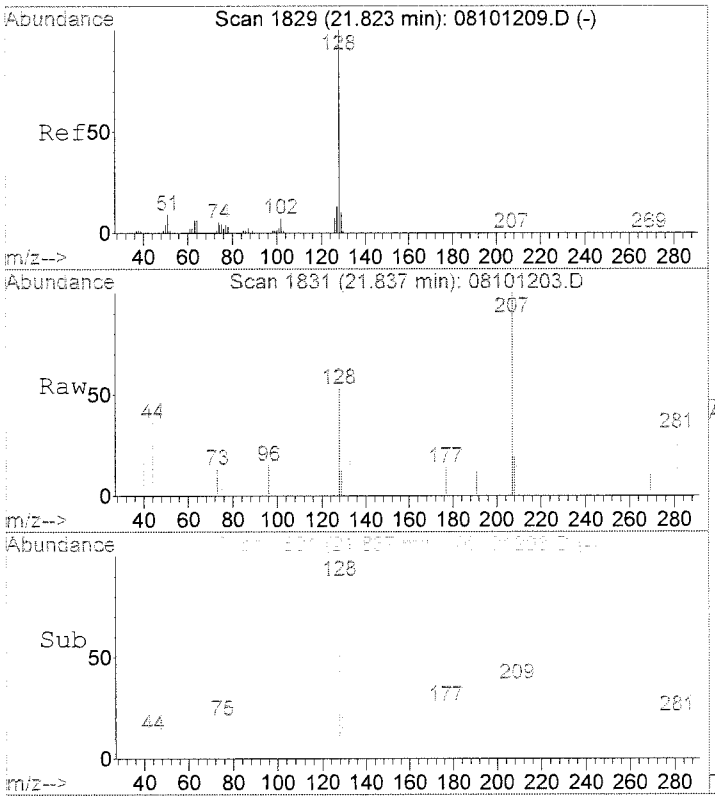


#83
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	77.9	116.9#
145	25.5	22.8	34.2

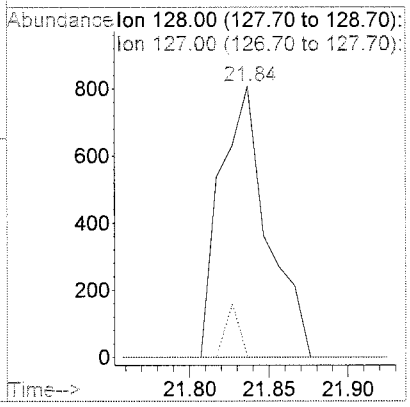


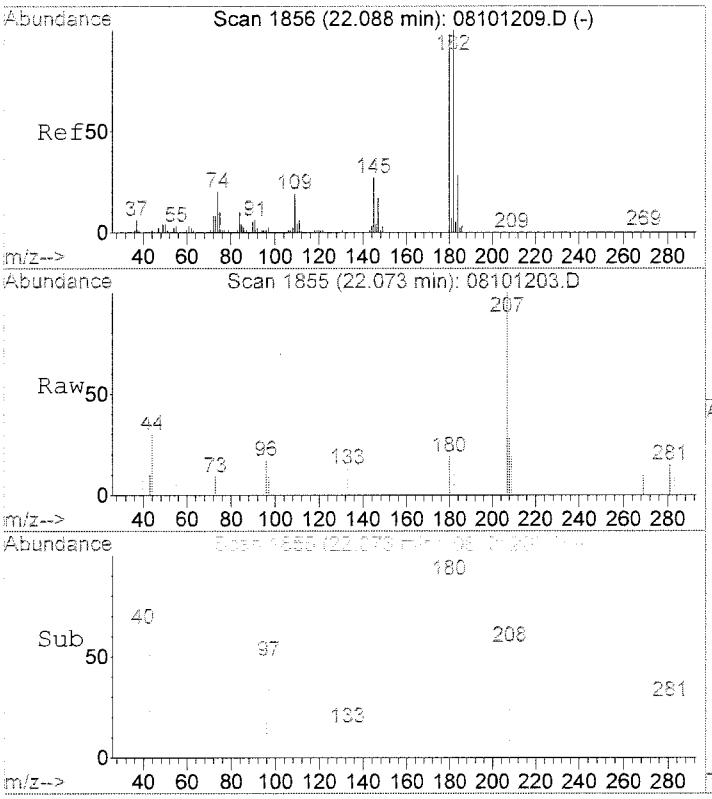


#84
Napthalene
Concen: 0.29 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.4#

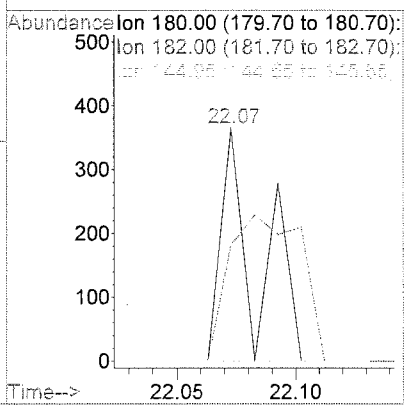




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.07 min Scan# 1855
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 380

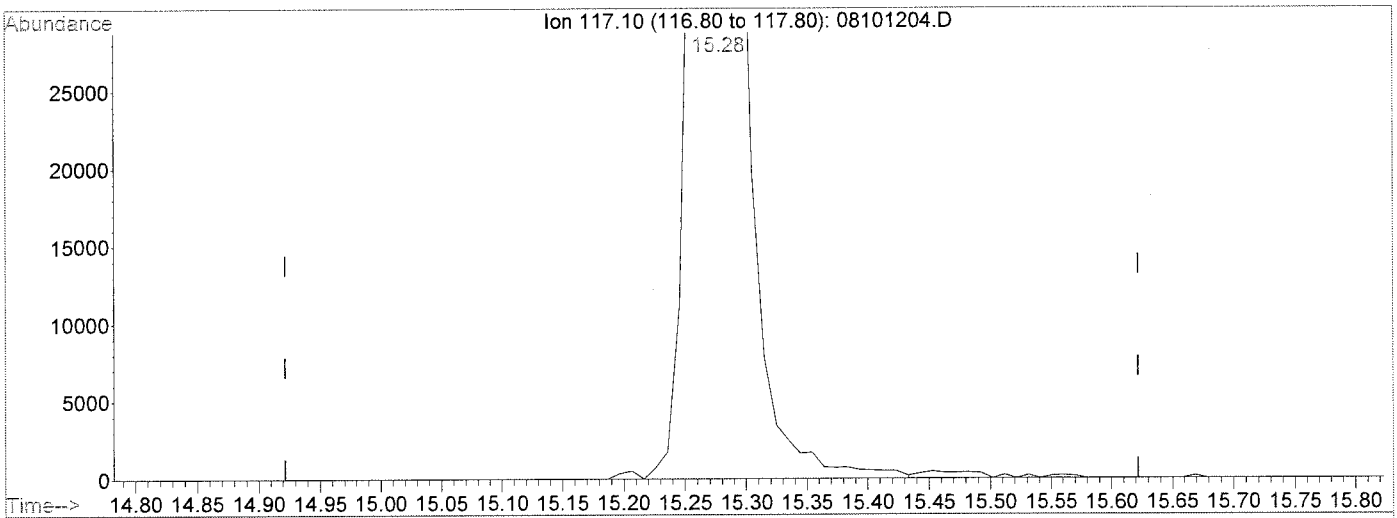
Ion	Ratio	Lower	Upper
180	100		
182	127.1	78.9	118.3#
145	28.2	23.2	34.8

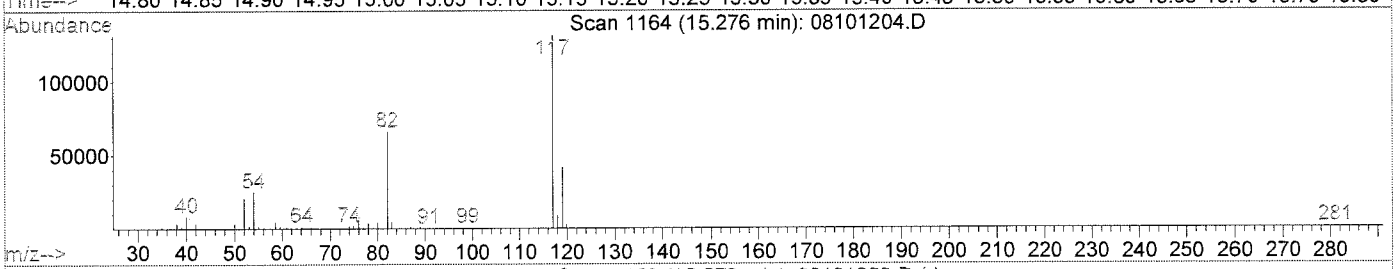


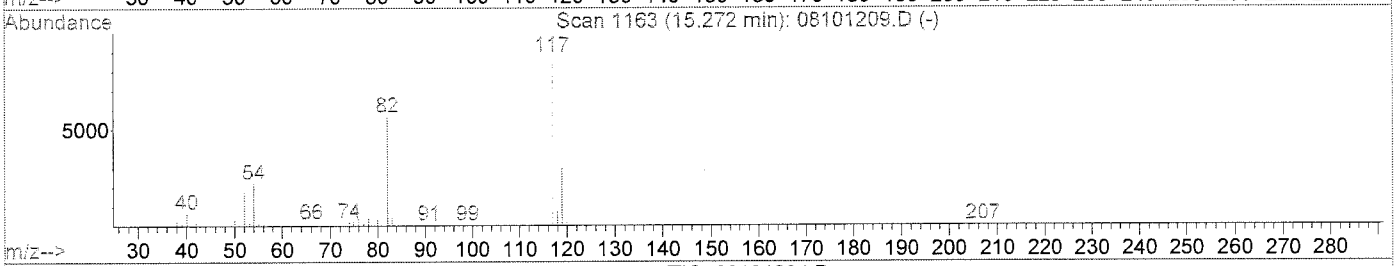
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

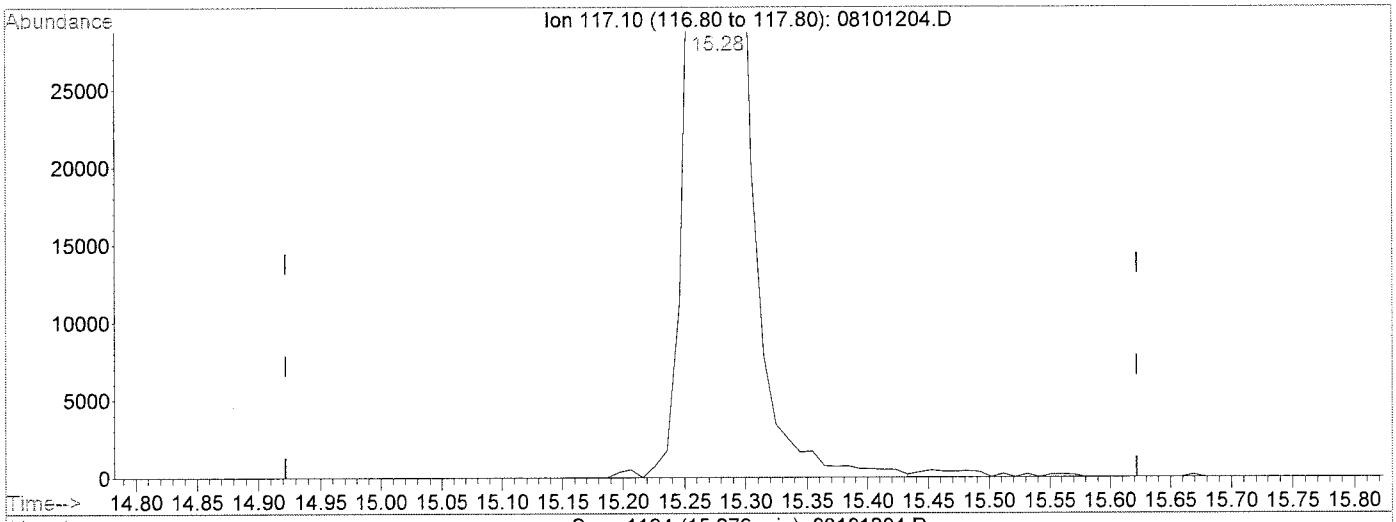
8/13/12

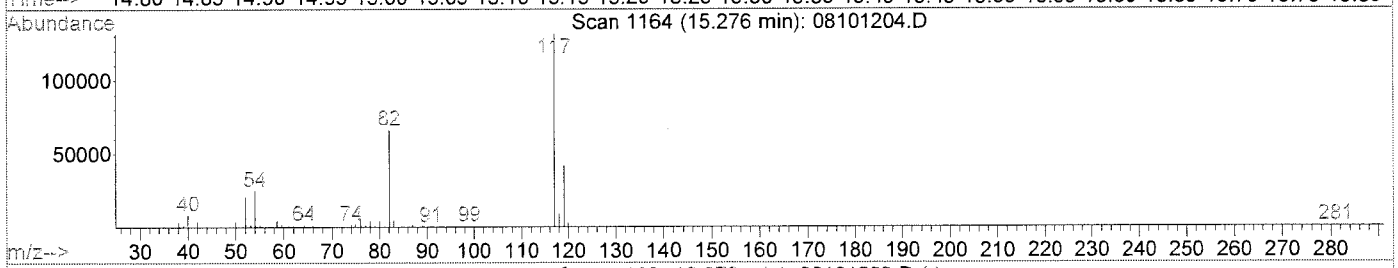
B
CE
MNM 8/13/12

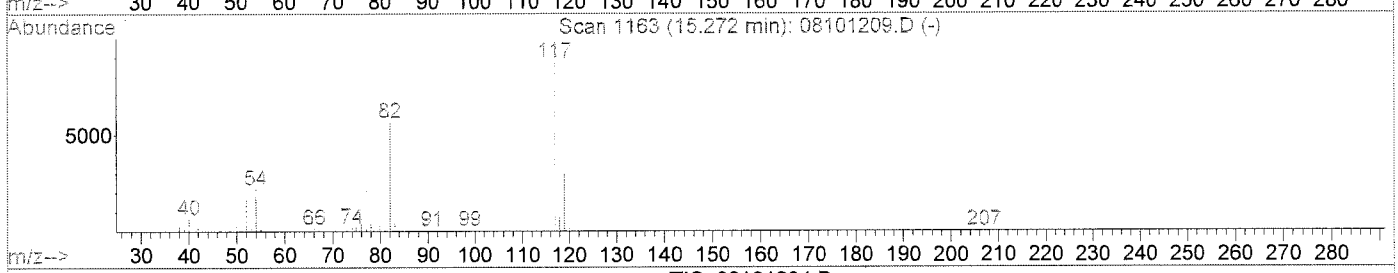
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285234

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285234m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 1.88%	
48) Toluene-d8	13.33	98	8308	0.53 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.12%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.04%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.53 ug/L	99
6) Chloromethane	4.35	50	5533	0.53 ug/L	97
7) Vinyl Chloride	4.63	62	5041	0.53 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.46 ug/L #	88
11) Trichlorofluoromethane	6.11	101	4136	0.49 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.48 ug/L	95
14) 1,1-Dichloroethene	6.81	96	3218	0.55 ug/L	95
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	83
16) Freon 113	7.08	101	3192	0.53 ug/L	97
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	17
18) trans-1,2-Dichloroethene	7.86	96	3858	0.57 ug/L #	80
19) MTBE	8.01	73	4605	0.48 ug/L	98
20) 1,1-Dichloroethane	8.18	63	5100	0.48 ug/L #	94
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.46 ug/L #	59
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.49 ug/L #	90
25) cis-1,2-Dichloroethene	8.91	96	3145	0.51 ug/L	86
26) Bromochloromethane	9.13	128	1212	0.50 ug/L	85
27) Chloroform	9.17	83	4473	0.49 ug/L #	91
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.52 ug/L	98
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.45 ug/L #	93
33) 1,1,1-Trichloroethane	10.14	97	3906	0.51 ug/L	92
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.56 ug/L	95
36) 1,1-Dichloropropene	10.37	75	4256	0.50 ug/L #	83
37) Carbon Tetrachloride	10.60	117	3505	0.53 ug/L #	97
38) Benzene	10.66	78	10648	0.53 ug/L	98
39) Dibromomethane	11.40	93	1079	0.45 ug/L #	89
40) 1,2-Dichloropropane	11.43	63	2436	0.51 ug/L #	79

(#) = qualifier out of range (m) = manual integration
08101204.D 081012.M Mon Aug 13 05:15:56 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	2807	0.50 ug/L	97
42)	Bromodichloromethane	11.55	83	2375	0.43 ug/L #	87
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.46 ug/L	90
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d	
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.48 ug/L	95
47)	1,1,2-Trichloroethane	13.17	97	939	0.34 ug/L #	82
49)	Toluene	13.43	92	5962	0.52 ug/L #	97
51)	1,3-Dichloropropane	13.49	76	2084	0.41 ug/L #	86
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.85	129	1416	0.39 ug/L	91
54)	1,2-Dibromoethane	14.18	107	1351	0.44 ug/L	95
55)	Tetrachloroethene	14.41	164	2667	0.53 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.53 ug/L #	1
57)	Chlorobenzene	15.32	112	5746	0.49 ug/L	98
58)	Ethylbenzene	15.58	91	10303	0.50 ug/L	98
59)	m,p-Xylenes	15.84	106	3739	0.48 ug/L	82
60)	Styrene	16.30	104	5068	0.48 ug/L	95
61)	o-Xylene	16.40	106	3948	0.55 ug/L #	94
64)	Bromoform	16.01	173	894	0.43 ug/L	86
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.51 ug/L #	89
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	9688	0.53 ug/L	95
69)	Bromobenzene	17.24	156	2141	0.48 ug/L	99
70)	n-Propylbenzene	17.51	91	12373	0.53 ug/L	91
71)	2-Chlorotoluene	17.65	91	6496	0.52 ug/L	94
72)	4-Chlorotoluene	17.75	91	6322	0.52 ug/L	94
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.52 ug/L	100
74)	tert-Butylbenzene	18.31	119	6960	0.55 ug/L #	95
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.52 ug/L	96
76)	sec-Butylbenzene	18.61	105	11286	0.55 ug/L	92
77)	1,3-Dichlorobenzene	18.72	146	4471	0.55 ug/L	99
78)	1,4-Dichlorobenzene	18.81	146	4553	0.57 ug/L #	92
79)	p-Isopropyltoluene	18.86	119	7691	0.50 ug/L	91
80)	1,2-Dichlorobenzene	19.28	146	3801	0.58 ug/L	96
81)	n-Butylbenzene	19.40	91	7498	0.51 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.58 ug/L #	87
84)	Napthalene	21.83	128	3246	0.57 ug/L #	75
85)	Hexachlorobutadiene	21.89	225	1870	0.40 ug/L #	83
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.49 ug/L #	80

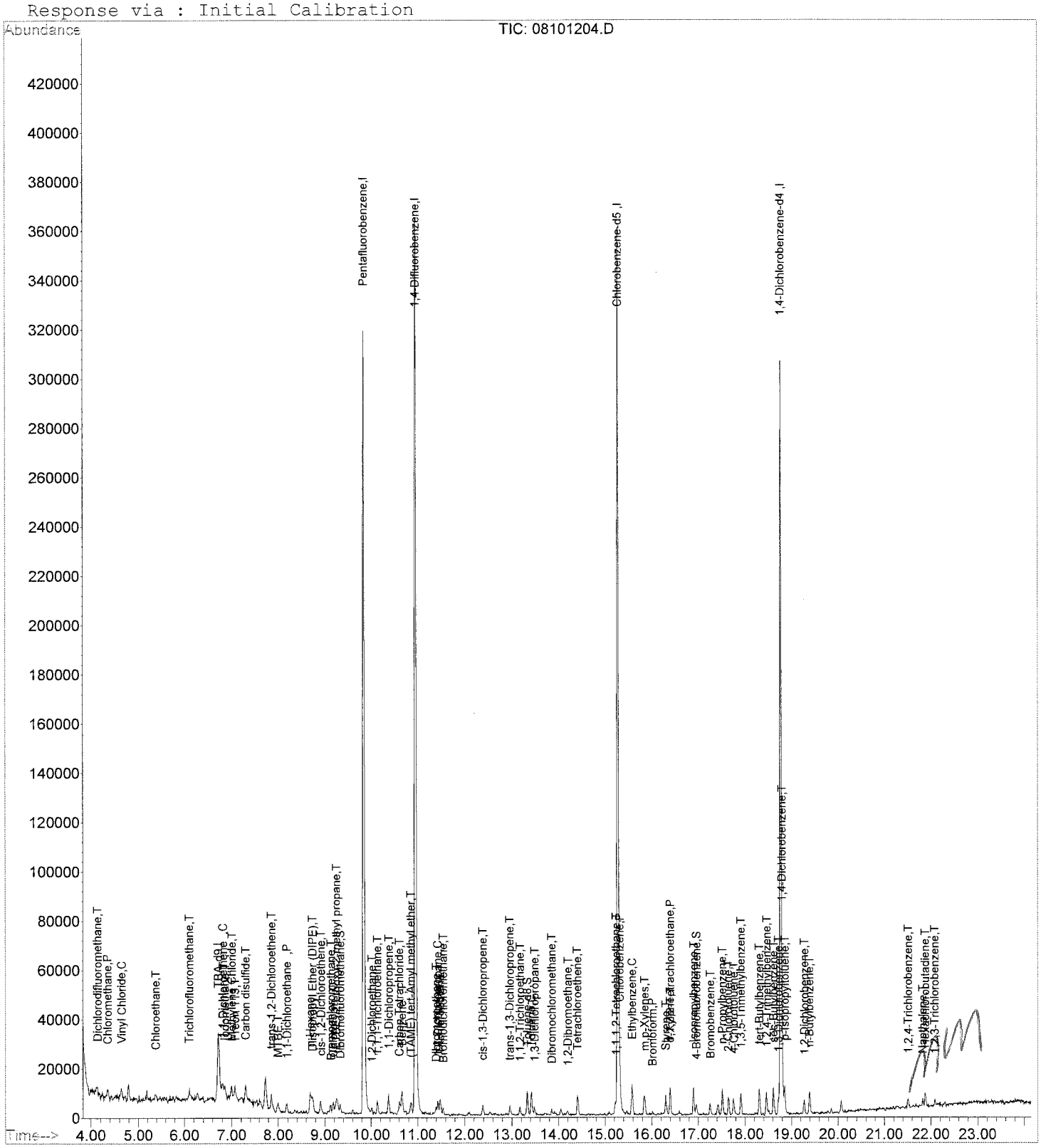
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 081012.M Mon Aug 13 05:15:56 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

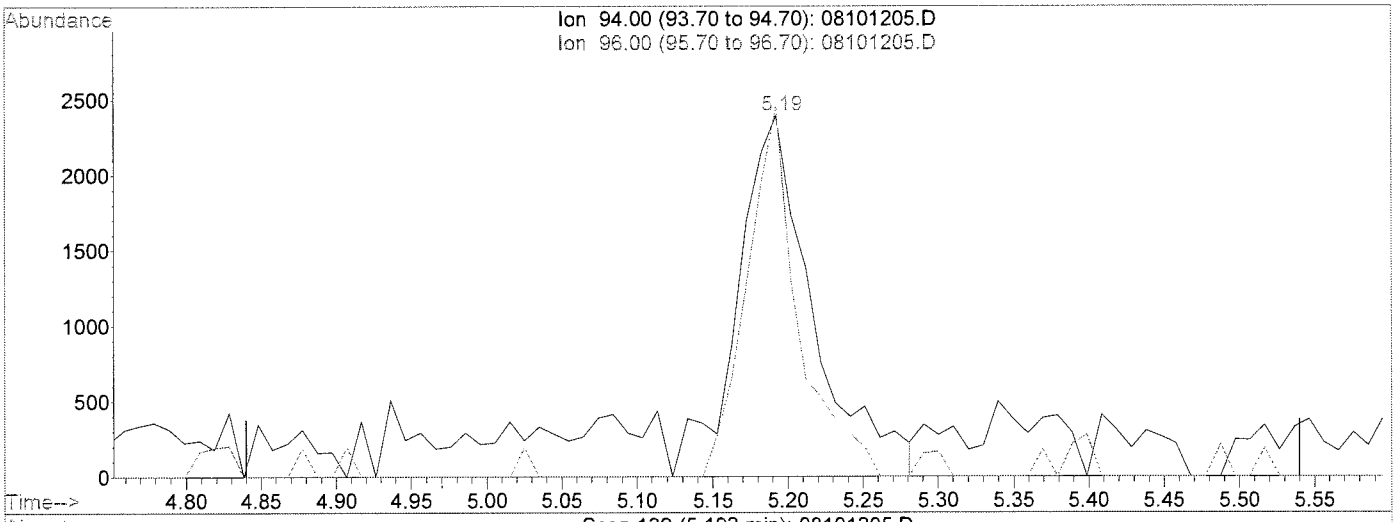
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

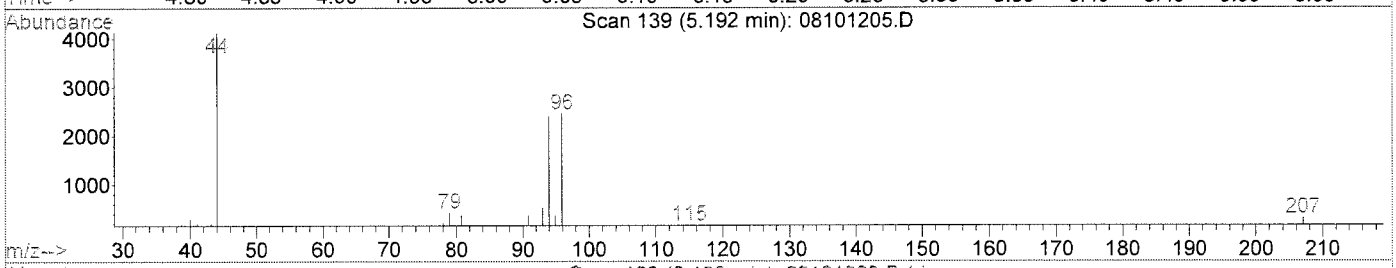


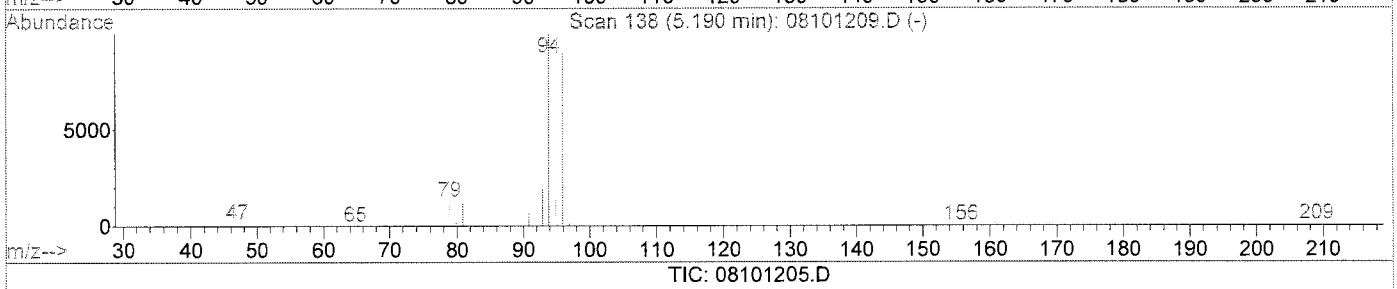
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.46ug/L

response 8343

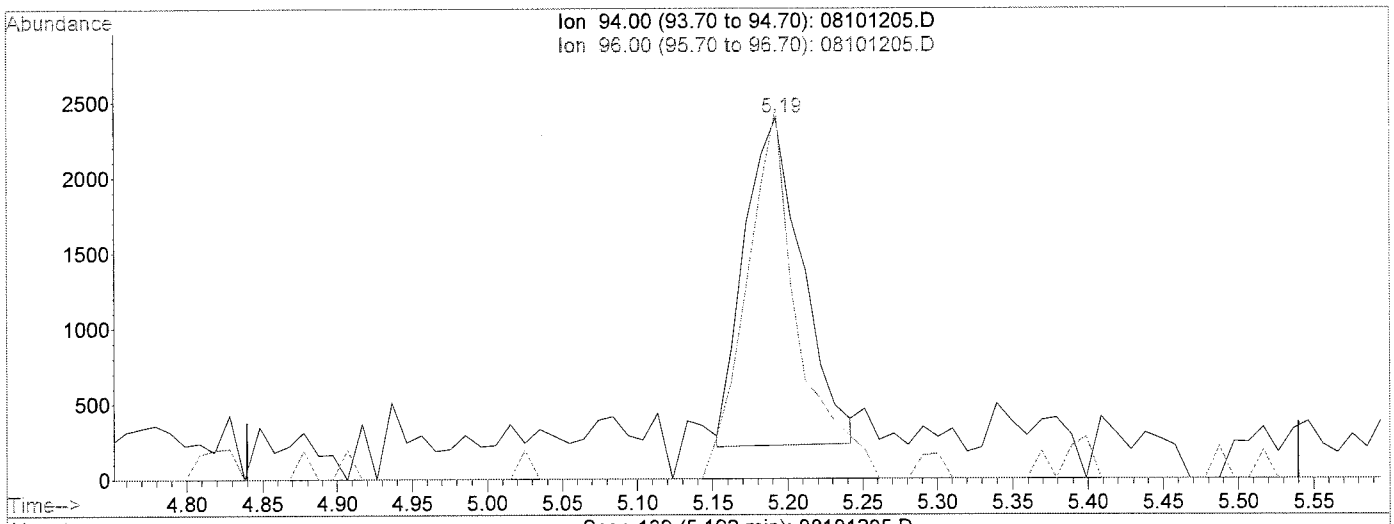
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

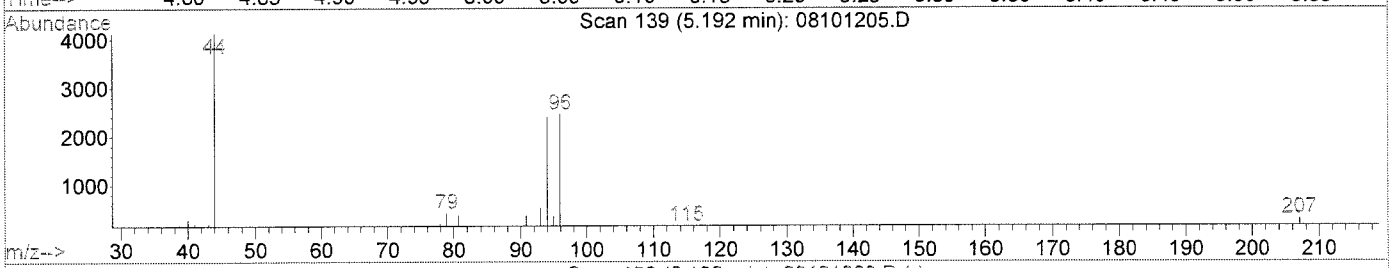
B 8/13/12
BL
MM 8/13/12

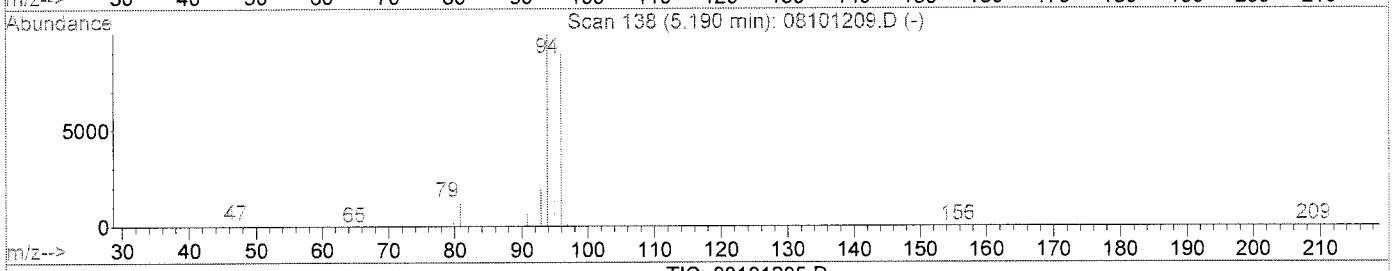
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.02ug/L m

response 5828

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	100.57
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12 T

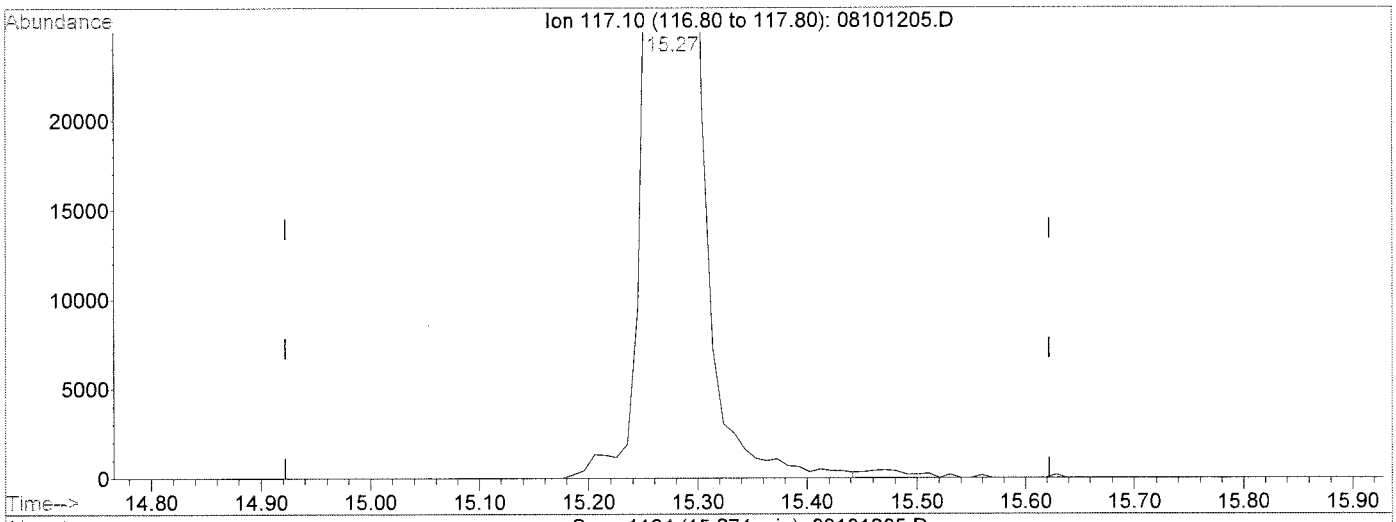
A

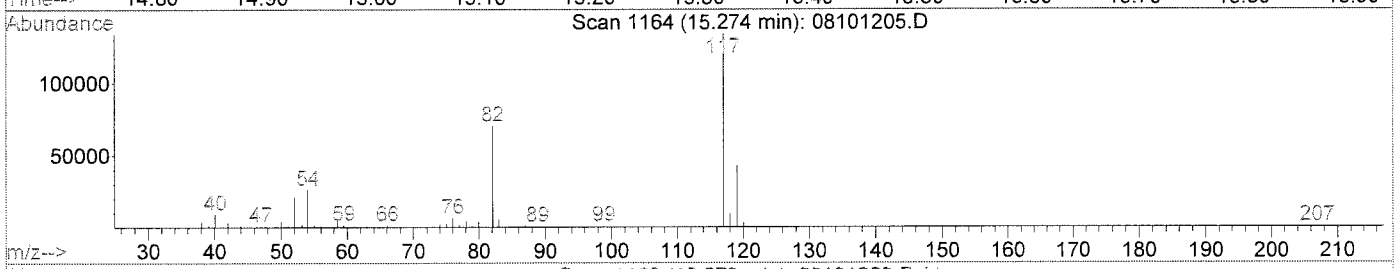
MM 8/13/12

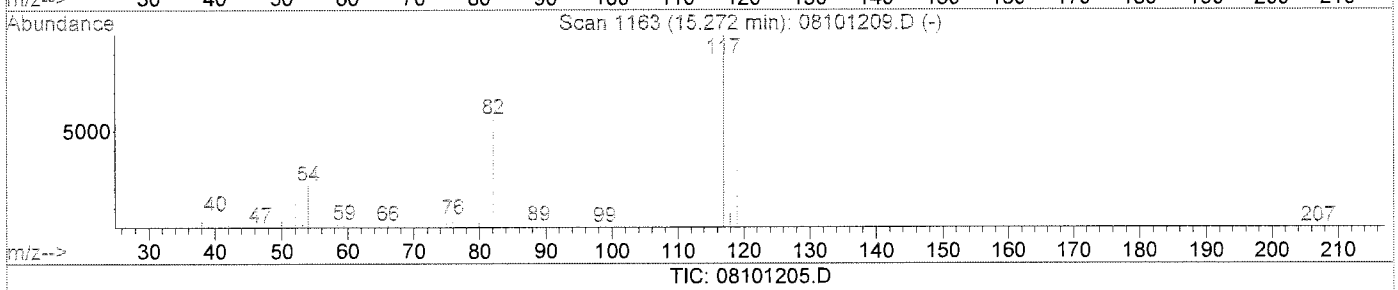
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

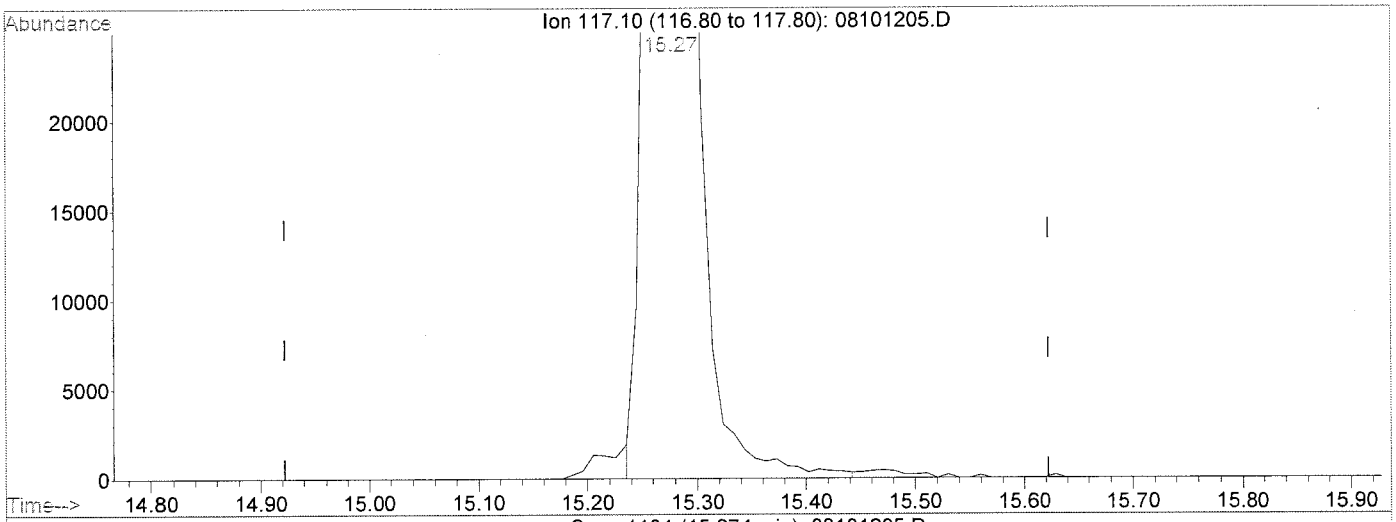
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

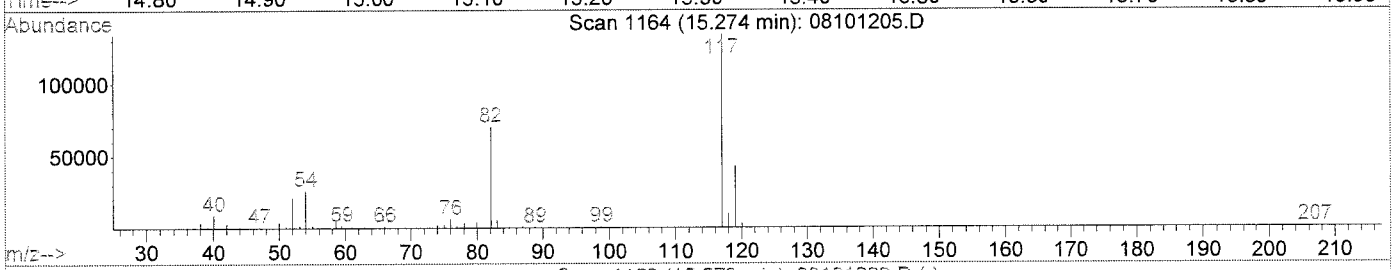
8/13/12
B
CE
MM 8/13/12

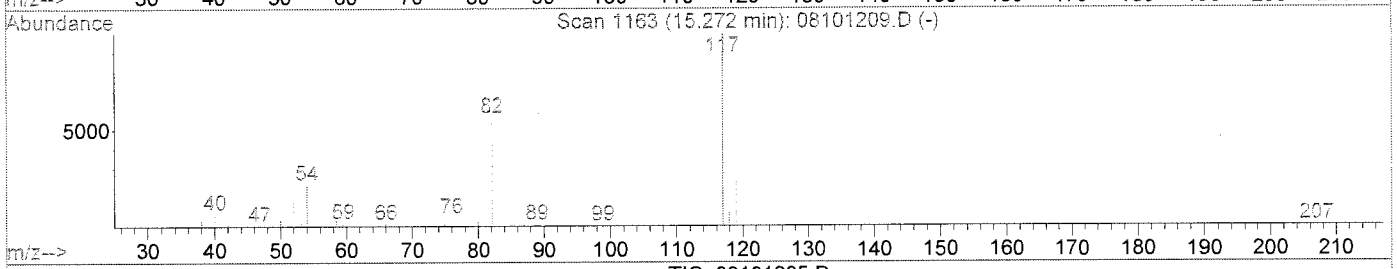
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 288608

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	288608m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	
48) Toluene-d8	13.33	98	15044	0.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.68%	
62) 4-Bromofluorobenzene	16.96	95	4337	0.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.88%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.02 ug/L	99
6) Chloromethane	4.36	50	11345	1.11 ug/L	98
7) Vinyl Chloride	4.63	62	9613	1.03 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	0.96 ug/L #	67
9) Bromomethane	5.19	94	5828m	1.02 ug/L	
10) Chloroethane	5.38	64	4474	0.96 ug/L #	79
11) Trichlorofluoromethane	6.11	101	8147	0.98 ug/L	95
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.06 ug/L	98
14) 1,1-Dichloroethene	6.82	96	6624	1.15 ug/L #	79
15) Methylene Chloride	6.99	84	5669	1.11 ug/L	93
16) Freon 113	7.06	101	5907	0.99 ug/L	96
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	84
18) trans-1,2-Dichloroethene	7.86	96	6803	1.02 ug/L	90
19) MTBE	8.00	73	9909	1.05 ug/L	94
20) 1,1-Dichloroethane	8.18	63	10543	1.02 ug/L	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.05 ug/L	85
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.05 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	6451	1.06 ug/L	98
26) Bromochloromethane	9.12	128	2129	0.88 ug/L	87
27) Chloroform	9.18	83	8439	0.93 ug/L #	84
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.01 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	1.06 ug/L	93
33) 1,1,1-Trichloroethane	10.14	97	6935	0.91 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	0.97 ug/L	95
36) 1,1-Dichloropropene	10.38	75	8845	1.00 ug/L #	91
37) Carbon Tetrachloride	10.61	117	6413	0.93 ug/L	96
38) Benzene	10.66	78	20457	0.97 ug/L	98
39) Dibromomethane	11.39	93	2452	0.99 ug/L	96
40) 1,2-Dichloropropane	11.44	63	5094	1.01 ug/L	95

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.91 ug/L	93
42)	Bromodichloromethane	11.56	83	5117	0.89 ug/L #	99
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.90 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	1.12 ug/L	96
46)	trans-1,3-Dichloropropene	12.96	75	4943	0.96 ug/L	97
47)	1,1,2-Trichloroethane	13.17	97	2959	1.01 ug/L	94
49)	Toluene	13.42	92	10896	0.91 ug/L	97
51)	1,3-Dichloropropane	13.49	76	5303	1.03 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.92 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	0.93 ug/L	98
55)	Tetrachloroethene	14.41	164	4967	0.98 ug/L	93
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.93 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	0.91 ug/L #	80
58)	Ethylbenzene	15.58	91	20863	1.01 ug/L	93
59)	m,p-Xylenes	15.84	106	7380	0.93 ug/L	91
60)	Styrene	16.30	104	9553	0.90 ug/L	97
61)	o-Xylene	16.40	106	7004	0.96 ug/L	98
64)	Bromoform	16.02	173	1913	0.89 ug/L	98
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	0.96 ug/L	96
66)	1,2,3-Trichloropropane	16.58	110	765	0.94 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	0.95 ug/L	98
69)	Bromobenzene	17.25	156	4047	0.89 ug/L	91
70)	n-Propylbenzene	17.51	91	22751	0.96 ug/L	94
71)	2-Chlorotoluene	17.65	91	12533	0.97 ug/L	90
72)	4-Chlorotoluene	17.75	91	12326	0.98 ug/L	93
73)	1,3,5-Trimethylbenzene	17.91	105	13867	0.95 ug/L	99
74)	tert-Butylbenzene	18.30	119	12547	0.96 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	13204	0.96 ug/L	96
76)	sec-Butylbenzene	18.61	105	19700	0.93 ug/L	96
77)	1,3-Dichlorobenzene	18.72	146	7952	0.96 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	7762	0.95 ug/L #	94
79)	p-Isopropyltoluene	18.85	119	15724	0.99 ug/L	98
80)	1,2-Dichlorobenzene	19.28	146	6825	1.01 ug/L	92
81)	n-Butylbenzene	19.40	91	14669	0.97 ug/L	100
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.86 ug/L	87
84)	Napthalene	21.83	128	6316	1.09 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.78 ug/L	96
86)	1,2,3-Trichlorobenzene	22.09	180	2981	0.84 ug/L	90

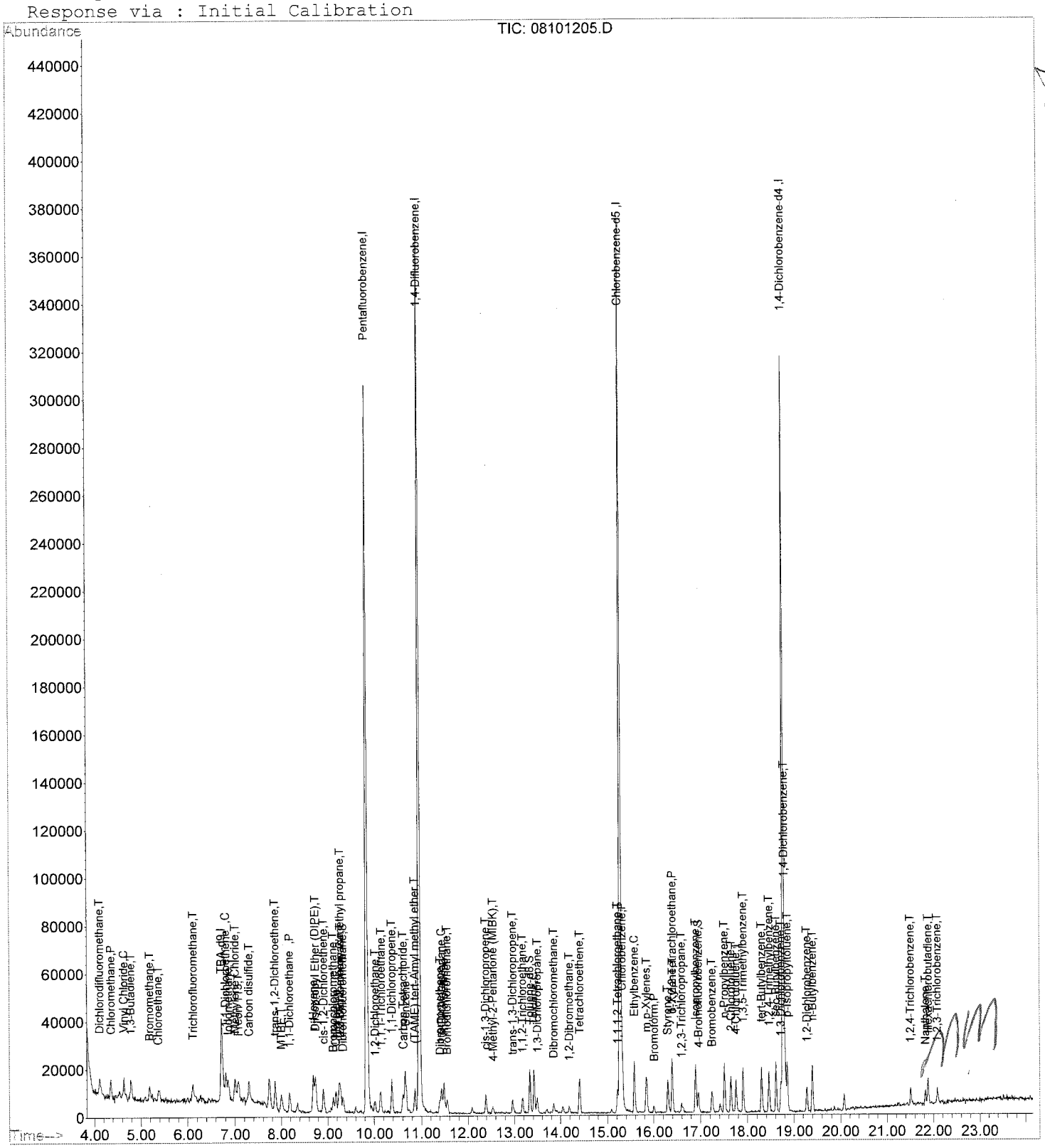
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

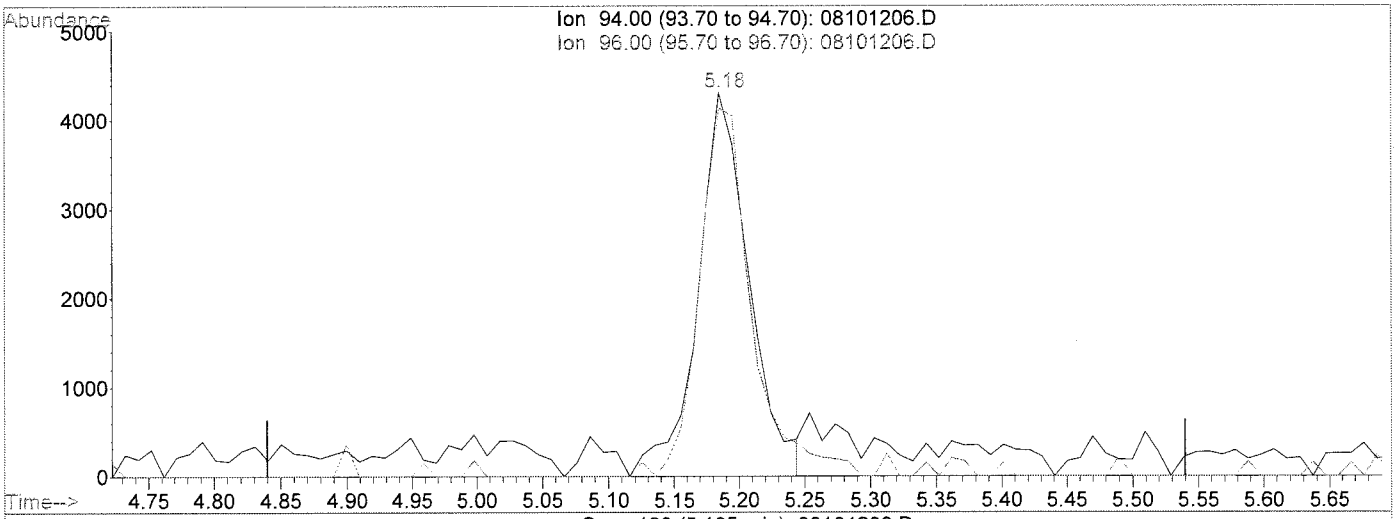
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

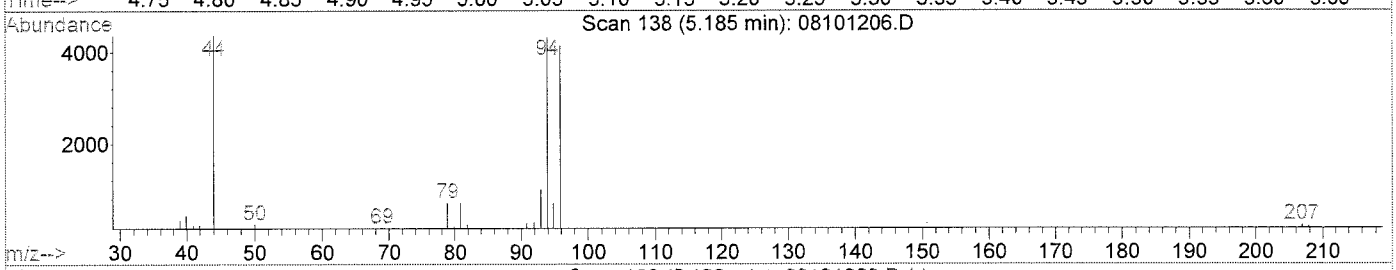


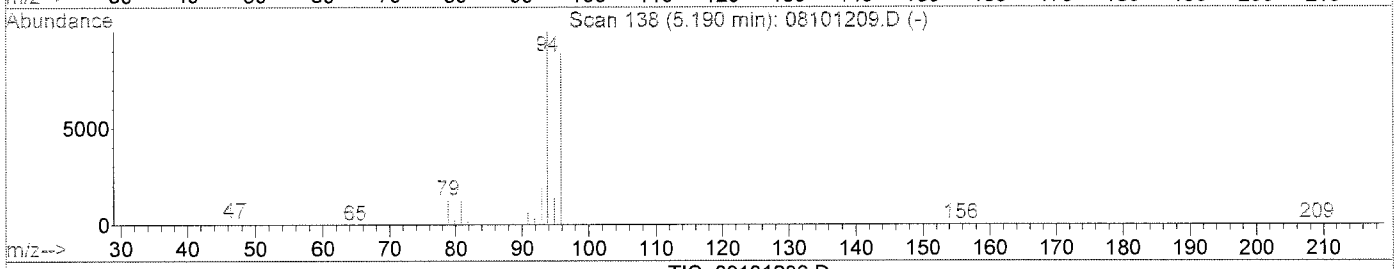
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.07ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

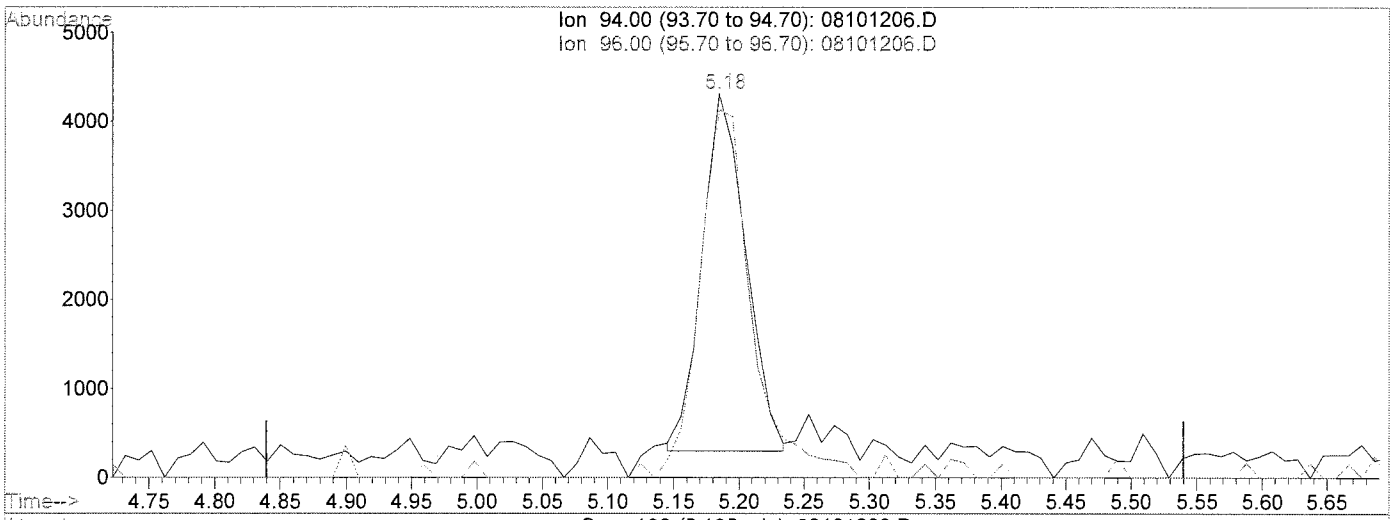
BL

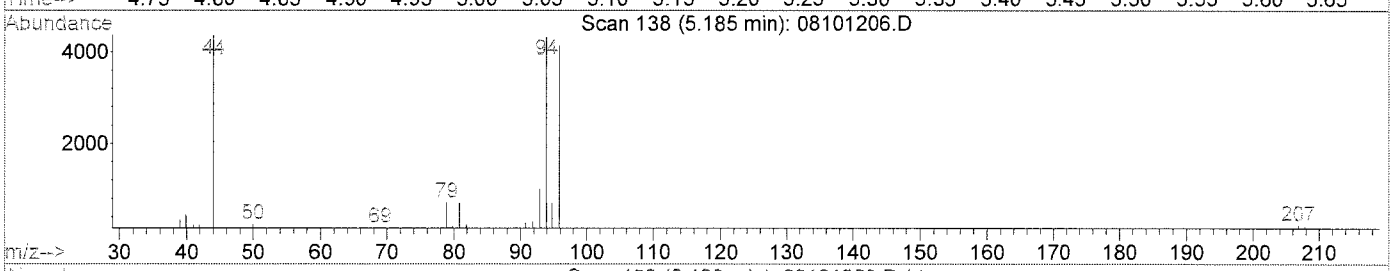
MM 8/13/12

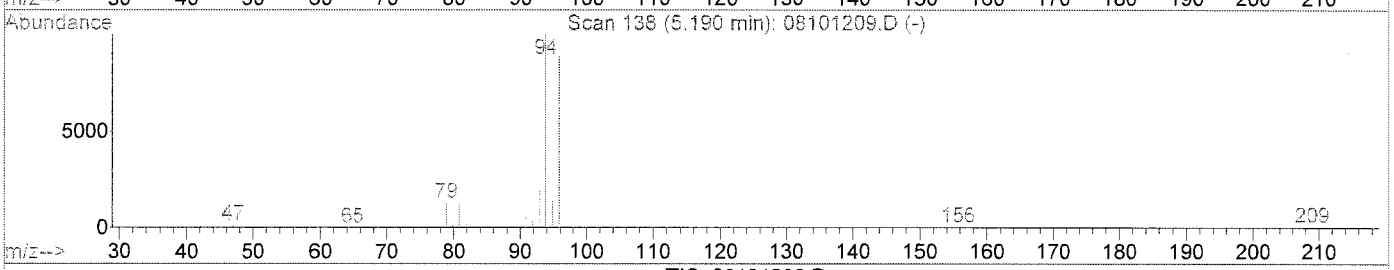
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.65ug/L m

response 9335

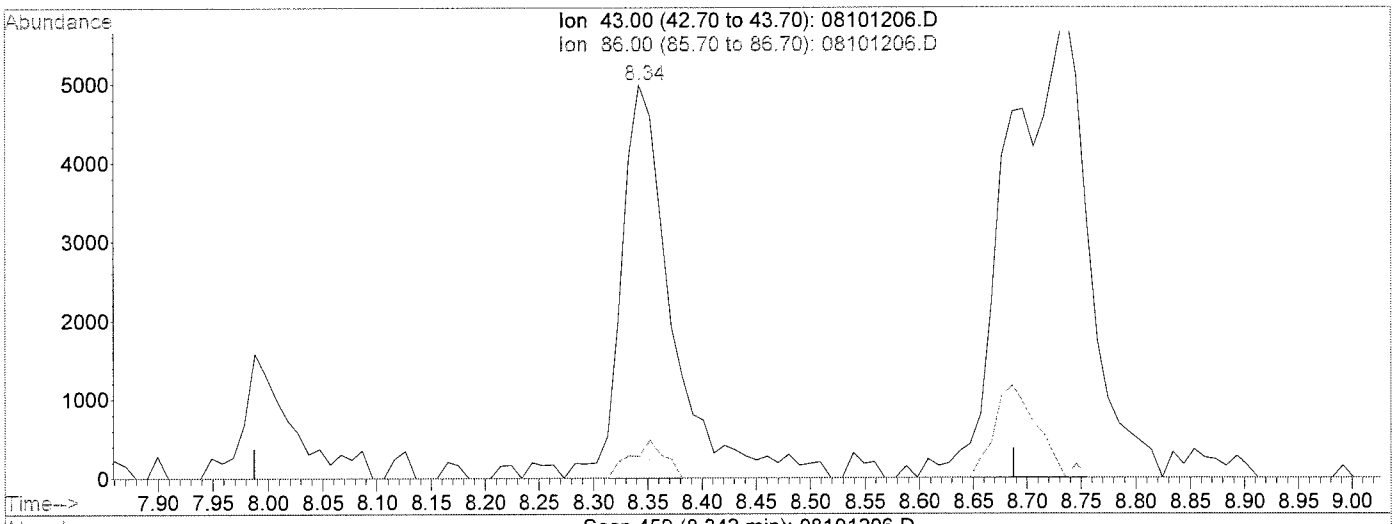
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	124.10#
0.00	0.00	0.00
0.00	0.00	0.00

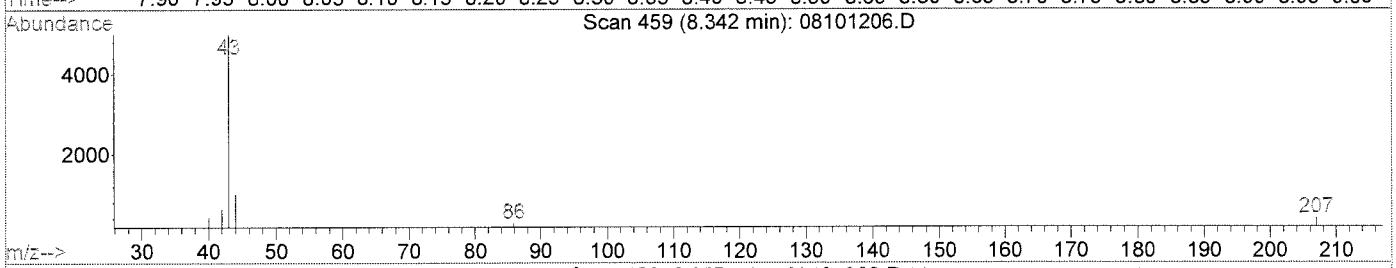
MM 8/13/12

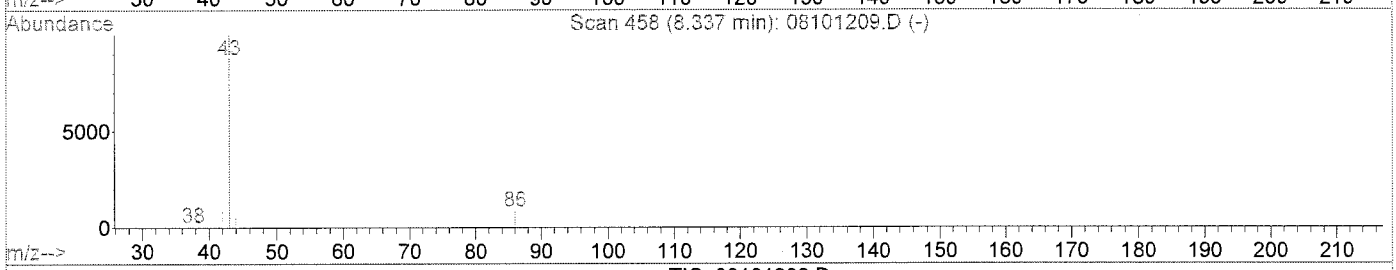
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

Ion	Exp%	Act%
43.00	100	100
86.00	7.90	6.41
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

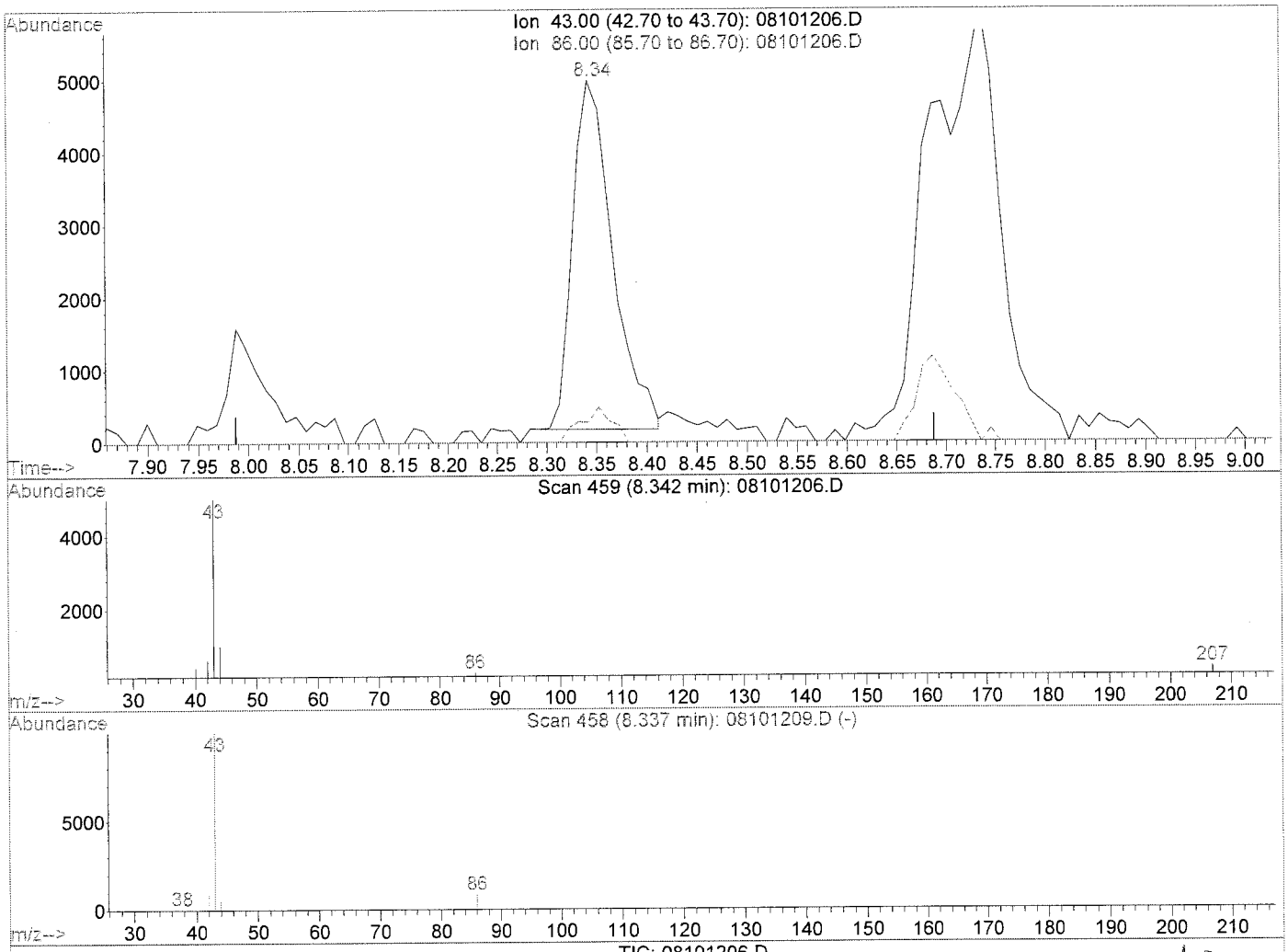
BL

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



✓ 8/13/12

(21) Vinyl Acetate (T)

8.34min 1.83ug/L m

response 13334

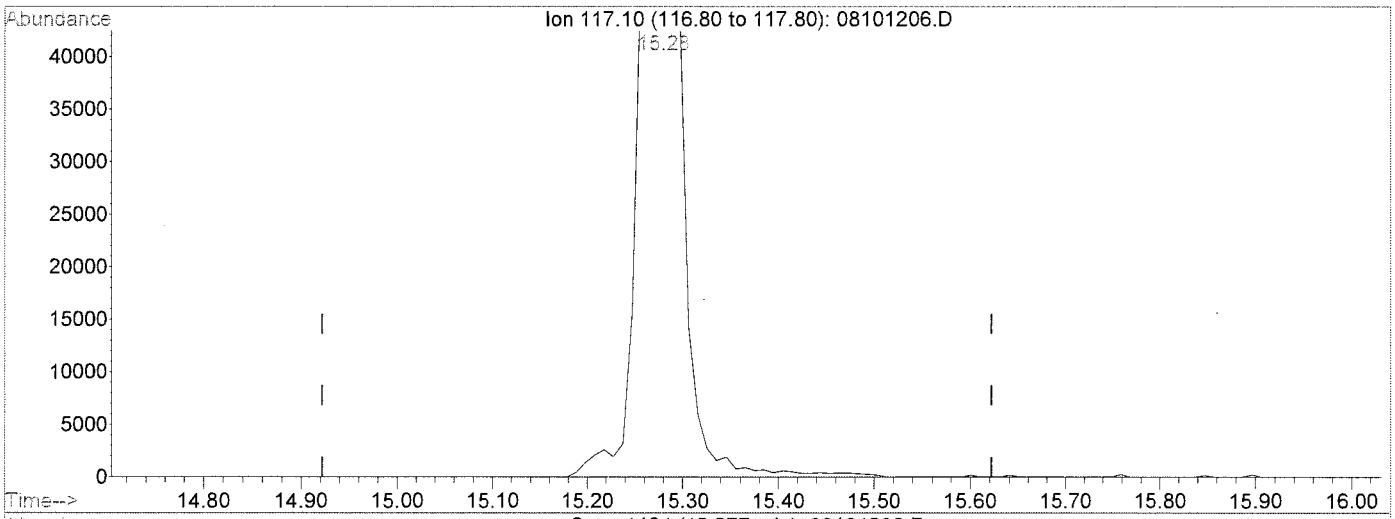
Ion	Exp%	Act%
43.00	100	100
86.00	7.90	7.85
0.00	0.00	0.00
0.00	0.00	0.00

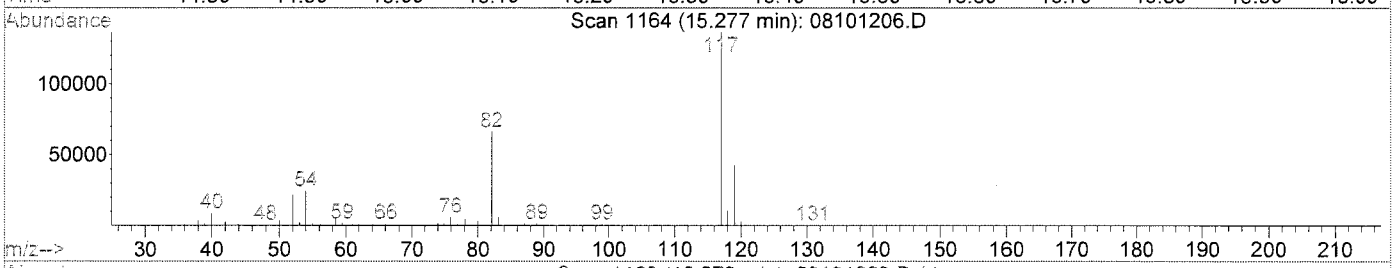
MM 8/13/12

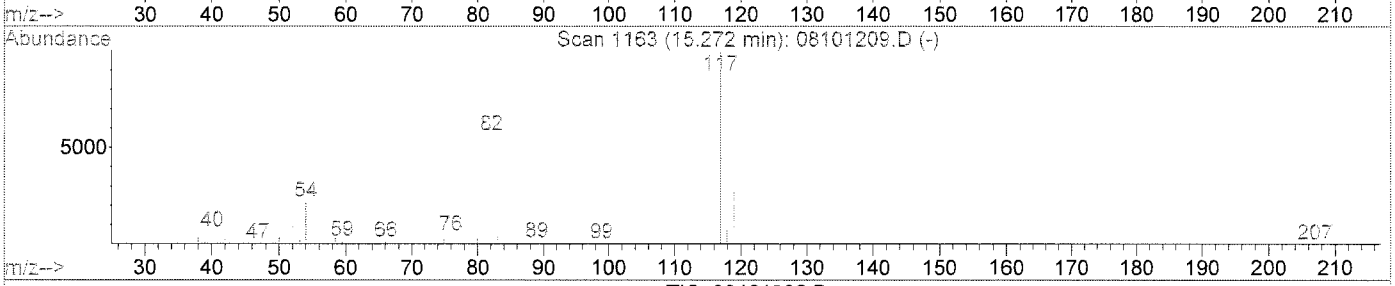
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

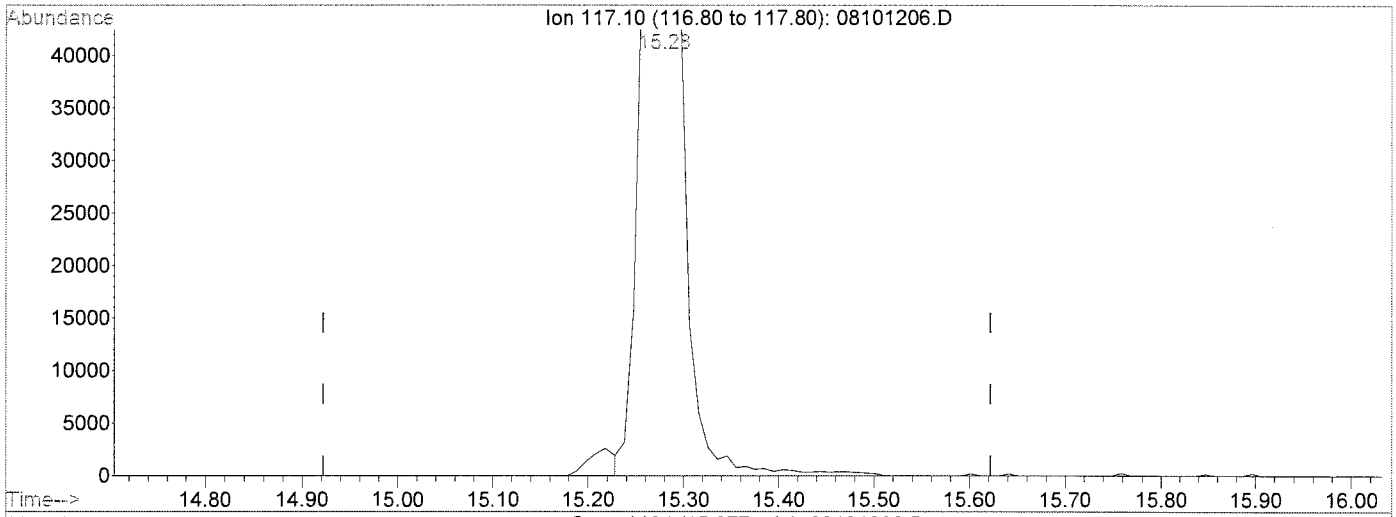
8/13/12

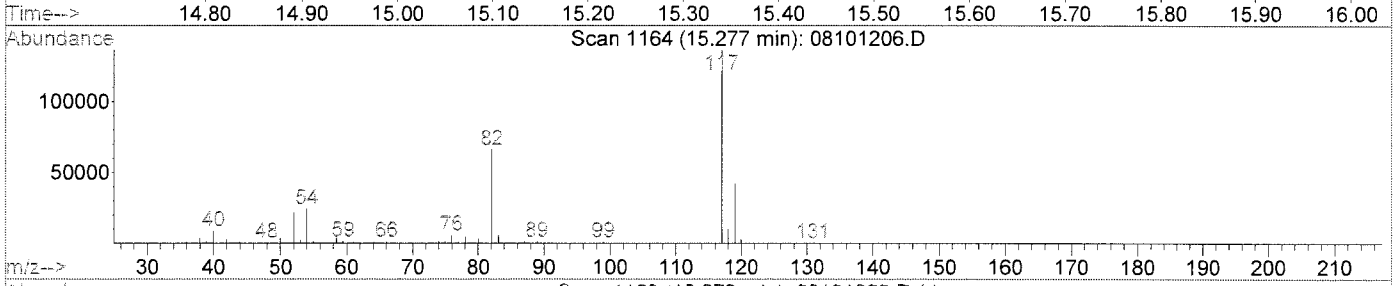
B
CE
MM 8/13/12

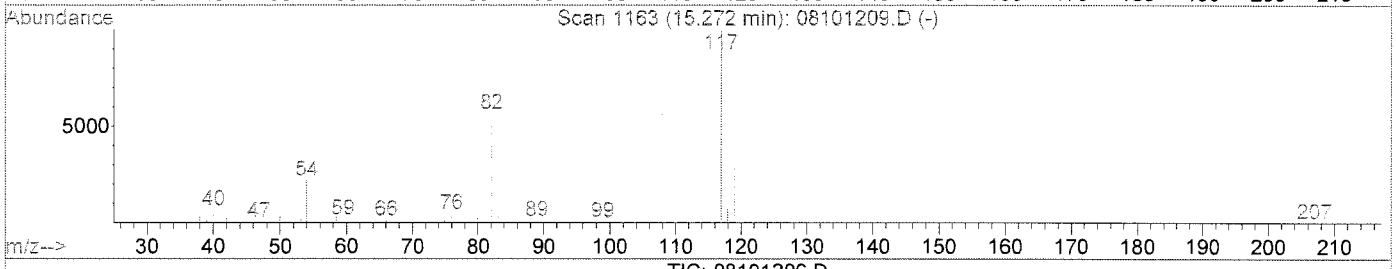
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293339

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293339m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.84%	
48) Toluene-d8	13.33	98	34659	2.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.80%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.36%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.71 ug/L	100
5) Dichlorodifluoromethane	4.11	85	19360	1.86 ug/L	88
6) Chloromethane	4.35	50	19442	1.92 ug/L	98
7) Vinyl Chloride	4.62	62	18295	1.97 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	1.90 ug/L	89
9) Bromomethane	5.18	94	9335m	1.65 ug/L	
10) Chloroethane	5.39	64	9047	1.97 ug/L #	84
11) Trichlorofluoromethane	6.12	101	15106	1.84 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.02 ug/L	98
14) 1,1-Dichloroethene	6.81	96	11692	2.05 ug/L	94
15) Methylene Chloride	6.99	84	10706	2.11 ug/L	93
16) Freon 113	7.06	101	11837	2.00 ug/L	97
17) Carbon disulfide	7.30	76	34510	1.86 ug/L #	46
18) trans-1,2-Dichloroethene	7.86	96	12894	1.95 ug/L	97
19) MTBE	8.00	73	18479	1.98 ug/L	94
20) 1,1-Dichloroethane	8.18	63	21203	2.07 ug/L	97
21) Vinyl Acetate	8.34	43	13334m	1.83 ug/L	
22) n-Hexane	8.69	86	3282	2.02 ug/L	83
23) 2-Butanone (MEK)	8.74	72	770	1.89 ug/L #	21
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.08 ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	11373	1.89 ug/L	96
26) Bromochloromethane	9.12	128	4731	1.98 ug/L	95
27) Chloroform	9.17	83	18252	2.03 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.11 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.07 ug/L	98
31) Tetrahydrofuran	9.60	72	942	2.54 ug/L #	77
32) 1,2-Dichloroethane	10.01	62	9458	2.18 ug/L	93
33) 1,1,1-Trichloroethane	10.13	97	14552	1.93 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	19881	1.97 ug/L #	95
36) 1,1-Dichloropropene	10.37	75	16300	1.91 ug/L	94
37) Carbon Tetrachloride	10.60	117	11980	1.79 ug/L #	93
38) Benzene	10.66	78	39625	1.95 ug/L	97
39) Dibromomethane	11.39	93	4623	1.92 ug/L	96
40) 1,2-Dichloropropane	11.44	63	9870	2.04 ug/L	95

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:47 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	11947	2.09 ug/L	91
42) Bromodichloromethane	11.55	83	10648	1.91 ug/L #	94
43) 2-Chlorovinylethylether	12.09	63	3450	1.88 ug/L #	91
44) cis-1,3-Dichloropropene	12.38	75	12256	1.88 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	5965	2.04 ug/L	93
46) trans-1,3-Dichloropropene	12.96	75	8864	1.79 ug/L	98
47) 1,1,2-Trichloroethane	13.17	97	5725	2.03 ug/L	99
49) Toluene	13.42	92	23415	2.02 ug/L	98
51) 1,3-Dichloropropane	13.49	76	9548	1.83 ug/L	100
52) 2-Hexanone	13.69	43	3757	1.73 ug/L #	86
53) Dibromochloromethane	13.85	129	6760	1.79 ug/L	96
54) 1,2-Dibromoethane	14.18	107	6483	2.05 ug/L	93
55) Tetrachloroethene	14.41	164	9734	1.88 ug/L	95
56) 1,1,1,2-Tetrachloroethane	15.22	131	7728	1.87 ug/L	94
57) Chlorobenzene	15.33	112	23737	1.97 ug/L	91
58) Ethylbenzene	15.58	91	37962	1.80 ug/L	98
59) m,p-Xylenes	15.85	106	14006	1.75 ug/L	91
60) Styrene	16.30	104	19695	1.83 ug/L	98
61) o-Xylene	16.40	106	12771	1.72 ug/L	92
64) Bromoform	16.01	173	3623	1.73 ug/L	93
65) 1,1,2,2-Tetrachloroethane	16.40	83	6436	1.97 ug/L #	97
66) 1,2,3-Trichloropropane	16.59	110	1480	1.88 ug/L	93
67) trans-1,4-Dichloro-2-buten	16.61	53	1030	2.25 ug/L #	88
68) Isopropylbenzene	16.90	105	35158	1.94 ug/L	99
69) Bromobenzene	17.24	156	8795	1.99 ug/L	98
70) n-Propylbenzene	17.51	91	42873	1.86 ug/L	99
71) 2-Chlorotoluene	17.65	91	25735	2.06 ug/L	97
72) 4-Chlorotoluene	17.76	91	23403	1.92 ug/L	98
73) 1,3,5-Trimethylbenzene	17.91	105	28001	1.98 ug/L	97
74) tert-Butylbenzene	18.31	119	24990	1.97 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	26887	2.01 ug/L	95
76) sec-Butylbenzene	18.61	105	41333	2.02 ug/L	98
77) 1,3-Dichlorobenzene	18.72	146	15215	1.89 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	15598	1.97 ug/L	96
79) p-Isopropyltoluene	18.86	119	30026	1.96 ug/L	99
80) 1,2-Dichlorobenzene	19.27	146	12959	1.98 ug/L	97
81) n-Butylbenzene	19.39	91	28530	1.94 ug/L	95
82) 1,2-Dibromo-3-chloropropan	19.86	75	677	2.15 ug/L	91
83) 1,2,4-Trichlorobenzene	21.50	180	7014	1.99 ug/L	93
84) Napthalene	21.83	128	10482	1.86 ug/L	98
85) Hexachlorobutadiene	21.89	225	5525	1.87 ug/L	97
86) 1,2,3-Trichlorobenzene	22.07	180	5851	1.84 ug/L	98

7

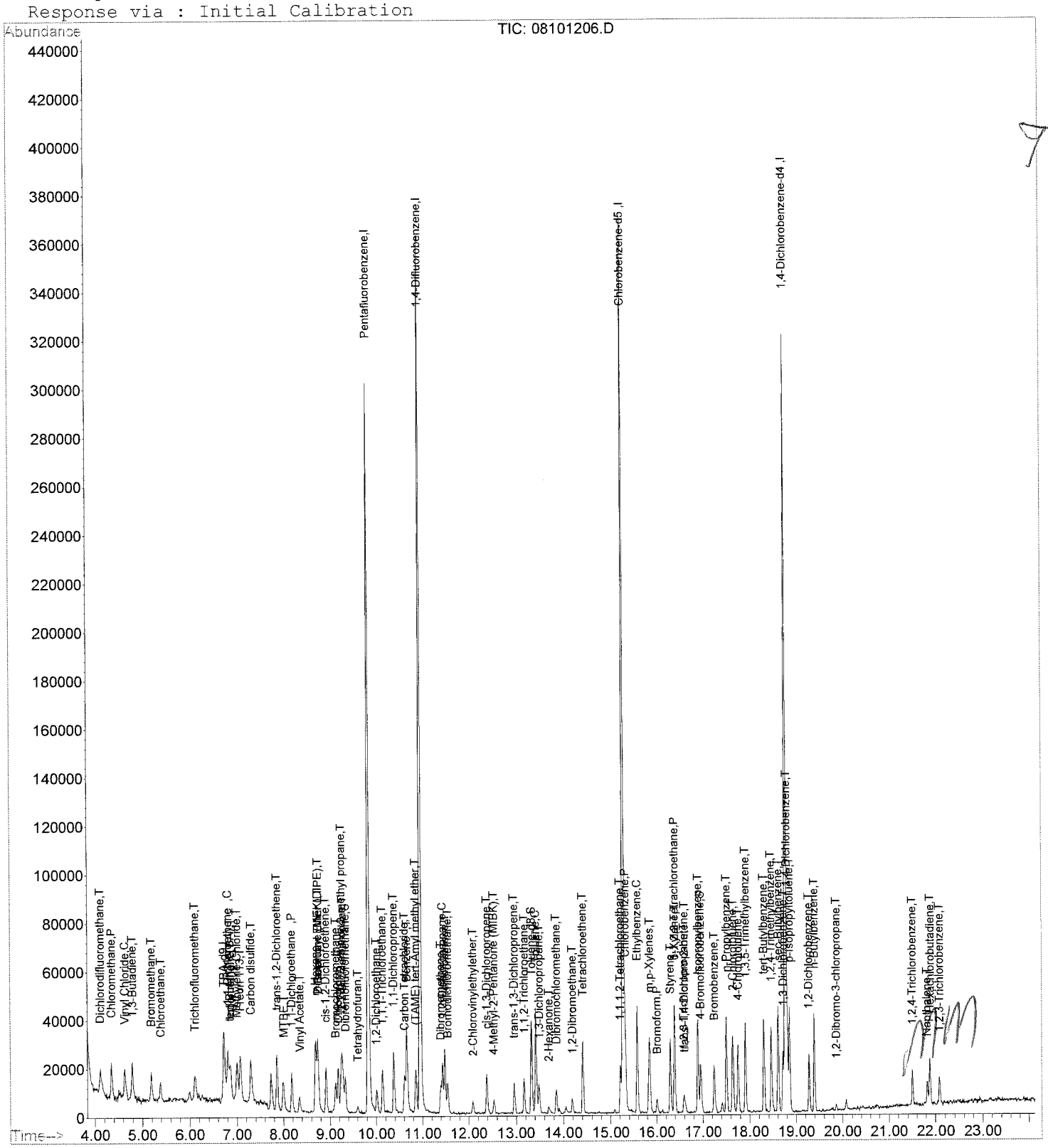
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:48 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

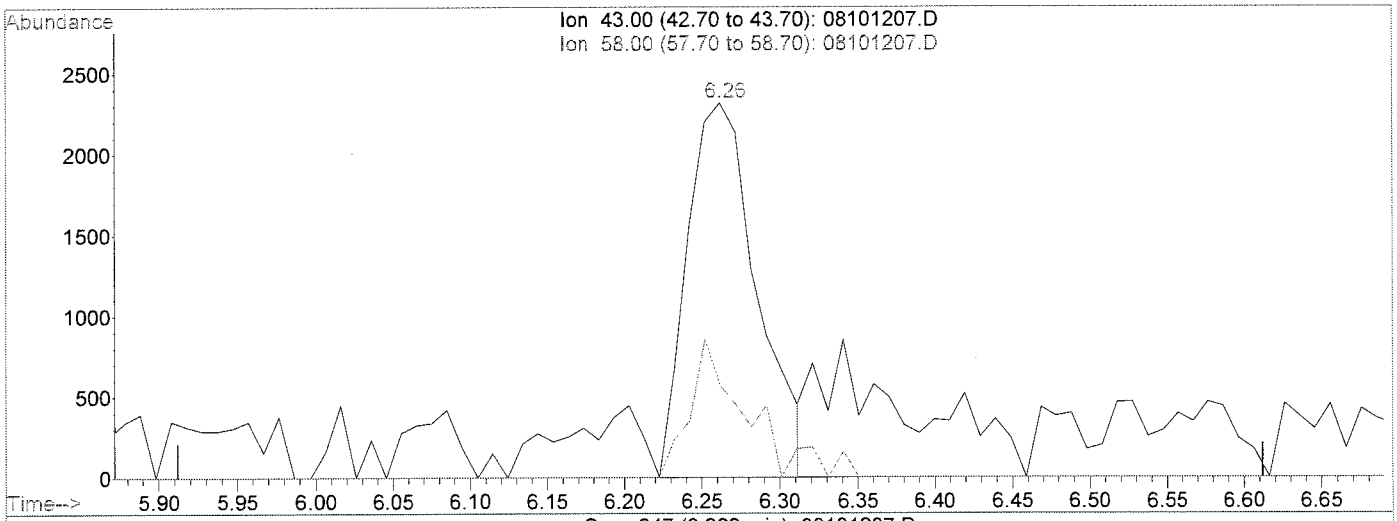
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

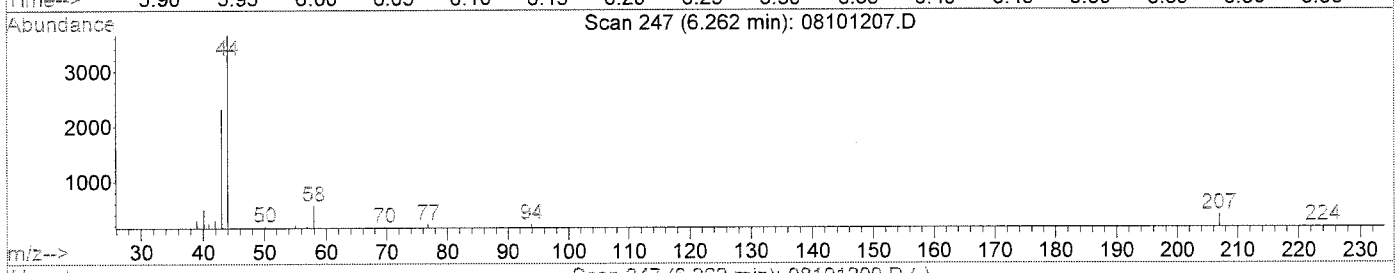


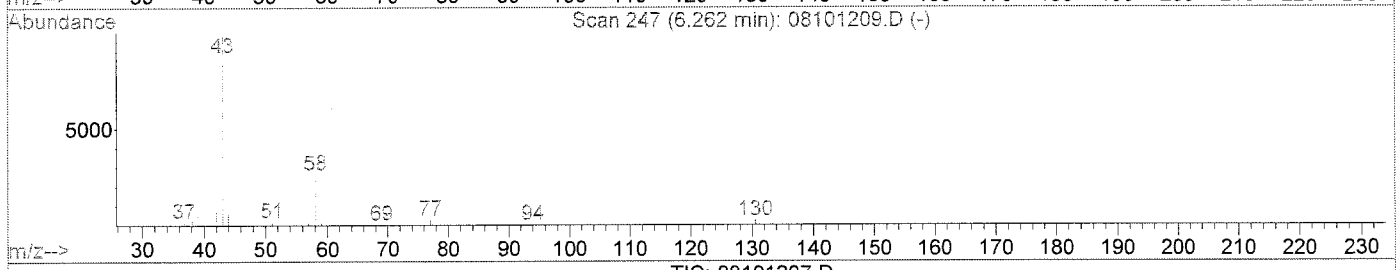
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.60ug/L

response 7175

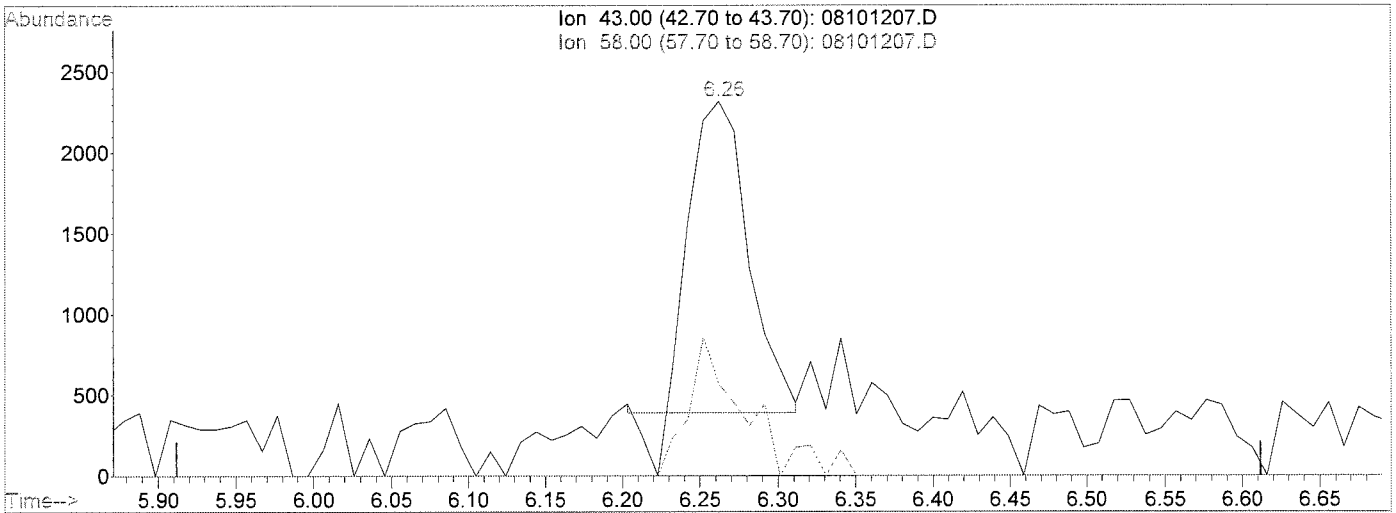
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

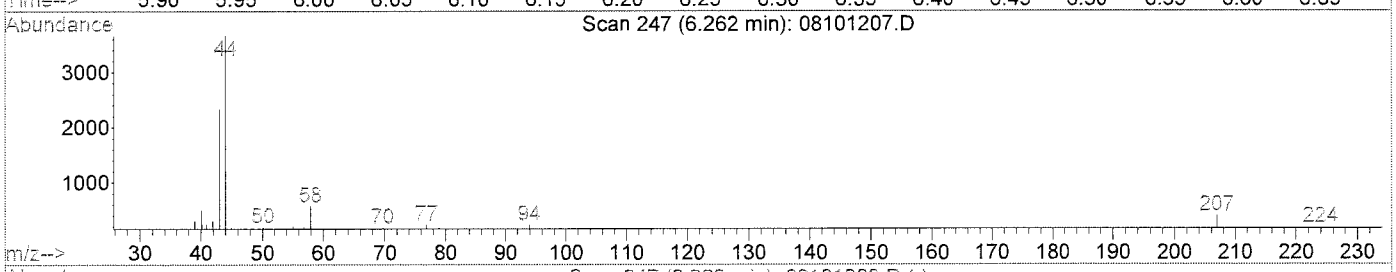
8/13/12
BL
MM 8/13/12

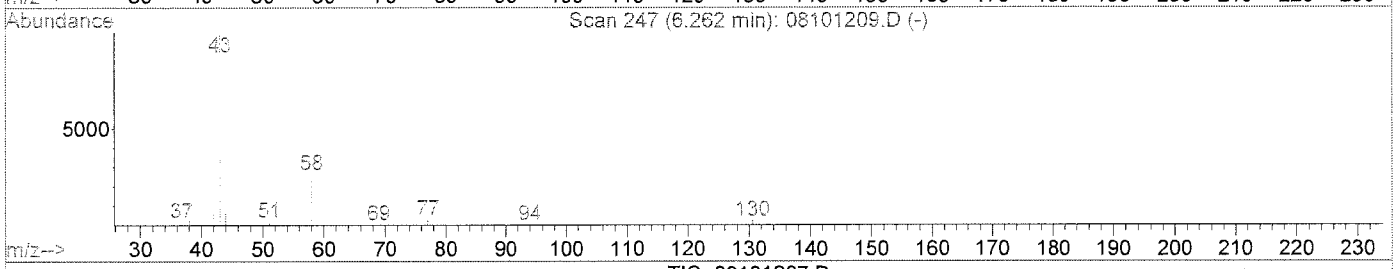
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

8/13/12

(12) Acetone (T)

6.26min 4.41ug/L m

response 4795

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	41.73#
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	4.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.96%	
48) Toluene-d8	13.32	98	72498	5.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.72%	
62) 4-Bromofluorobenzene	16.95	95	19393	4.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.80%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.44 ug/L #	94
5) Dichlorodifluoromethane	4.12	85	50503	5.33 ug/L	98
6) Chloromethane	4.35	50	49357	5.35 ug/L	98
7) Vinyl Chloride	4.63	62	49265	5.84 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.50 ug/L	97
9) Bromomethane	5.19	94	30021	5.82 ug/L	91
10) Chloroethane	5.38	64	23447	5.60 ug/L	97
11) Trichlorofluoromethane	6.11	101	40948	5.49 ug/L	97
12) Acetone	6.26	43	4795m	4.41 ug/L	
13) Iodomethane	6.86	142	44247	5.07 ug/L	98
14) 1,1-Dichloroethene	6.80	96	26139	5.03 ug/L	100
15) Methylene Chloride	7.00	84	23231	5.02 ug/L	96
16) Freon 113	7.08	101	29531	5.49 ug/L	97
17) Carbon disulfide	7.30	76	90258	5.34 ug/L	98
18) trans-1,2-Dichloroethene	7.87	96	30944	5.14 ug/L	98
19) MTBE	8.00	73	42861	5.03 ug/L	99
20) 1,1-Dichloroethane	8.18	63	50278	5.38 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.83 ug/L	99
22) n-Hexane	8.68	86	8584	5.81 ug/L	73
23) 2-Butanone (MEK)	8.73	72	1806	4.85 ug/L #	60
24) Diisopropyl Ether (DIPE)	8.74	45	78319	4.96 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	27851	5.08 ug/L	99
26) Bromochloromethane	9.11	128	10529	4.84 ug/L	90
27) Chloroform	9.17	83	43865	5.36 ug/L	97
28) 2,2-Dichloropropane	9.27	77	32662	5.27 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	4.88 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	4.38 ug/L	95
32) 1,2-Dichloroethane	10.01	62	19485	4.94 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.21 ug/L	97
34) (TAME) tert-Amyl methyl et	10.86	73	44807	4.88 ug/L	98
36) 1,1-Dichloropropene	10.37	75	40445	5.34 ug/L	96
37) Carbon Tetrachloride	10.61	117	30853	5.20 ug/L	95
38) Benzene	10.66	78	91136	5.04 ug/L	99
39) Dibromomethane	11.39	93	10657	4.99 ug/L	94
40) 1,2-Dichloropropane	11.44	63	21430	4.98 ug/L	97

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:56 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	27389	5.41 ug/L	94
42)	Bromodichloromethane	11.55	83	25974	5.24 ug/L	95
43)	2-Chlorovinylethylether	12.09	63	6853	4.21 ug/L	96
44)	cis-1,3-Dichloropropene	12.39	75	28675	4.96 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.61 ug/L	98
46)	trans-1,3-Dichloropropene	12.96	75	21114	4.80 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	12837	5.12 ug/L	94
49)	Toluene	13.42	92	54238	5.28 ug/L	97
51)	1,3-Dichloropropane	13.49	76	23699	5.26 ug/L	96
52)	2-Hexanone	13.69	43	8850	4.70 ug/L #	94
53)	Dibromochloromethane	13.86	129	16099	4.93 ug/L	100
54)	1,2-Dibromoethane	14.19	107	13554	4.95 ug/L	95
55)	Tetrachloroethene	14.41	164	23934	5.36 ug/L	95
56)	1,1,1,2-Tetrachloroethane	15.21	131	18257	5.10 ug/L	95
57)	Chlorobenzene	15.32	112	54536	5.24 ug/L	98
58)	Ethylbenzene	15.59	91	93388	5.14 ug/L	99
59)	m,p-Xylenes	15.85	106	35706	5.15 ug/L	98
60)	Styrene	16.30	104	44417	4.78 ug/L	98
61)	o-Xylene	16.39	106	32546	5.08 ug/L	98
64)	Bromoform	16.01	173	9250	4.92 ug/L #	82
65)	1,1,2,2-Tetrachloroethane	16.39	83	14360	4.89 ug/L	97
66)	1,2,3-Trichloropropane	16.59	110	3714	5.25 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.62	53	3143	5.21 ug/L #	94
68)	Isopropylbenzene	16.90	105	84596	5.19 ug/L	98
69)	Bromobenzene	17.25	156	19667	4.95 ug/L	93
70)	n-Propylbenzene	17.50	91	106364	5.14 ug/L	99
71)	2-Chlorotoluene	17.64	91	57156	5.10 ug/L	99
72)	4-Chlorotoluene	17.75	91	57414	5.24 ug/L	97
73)	1,3,5-Trimethylbenzene	17.91	105	65369	5.14 ug/L	98
74)	tert-Butylbenzene	18.30	119	58429	5.14 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	63046	5.24 ug/L	99
76)	sec-Butylbenzene	18.61	105	99506	5.41 ug/L	100
77)	1,3-Dichlorobenzene	18.71	146	37917	5.24 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	35468	5.00 ug/L	98
79)	p-Isopropyltoluene	18.86	119	72640	5.27 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	30287	5.14 ug/L	100
81)	n-Butylbenzene	19.39	91	70667	5.35 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.87	75	1150	3.92 ug/L #	53
83)	1,2,4-Trichlorobenzene	21.51	180	17519	5.55 ug/L	96
84)	Napthalene	21.82	128	26687	5.28 ug/L	96
85)	Hexachlorobutadiene	21.88	225	14706	6.26 ug/L	92
86)	1,2,3-Trichlorobenzene	22.08	180	14724	5.45 ug/L	96

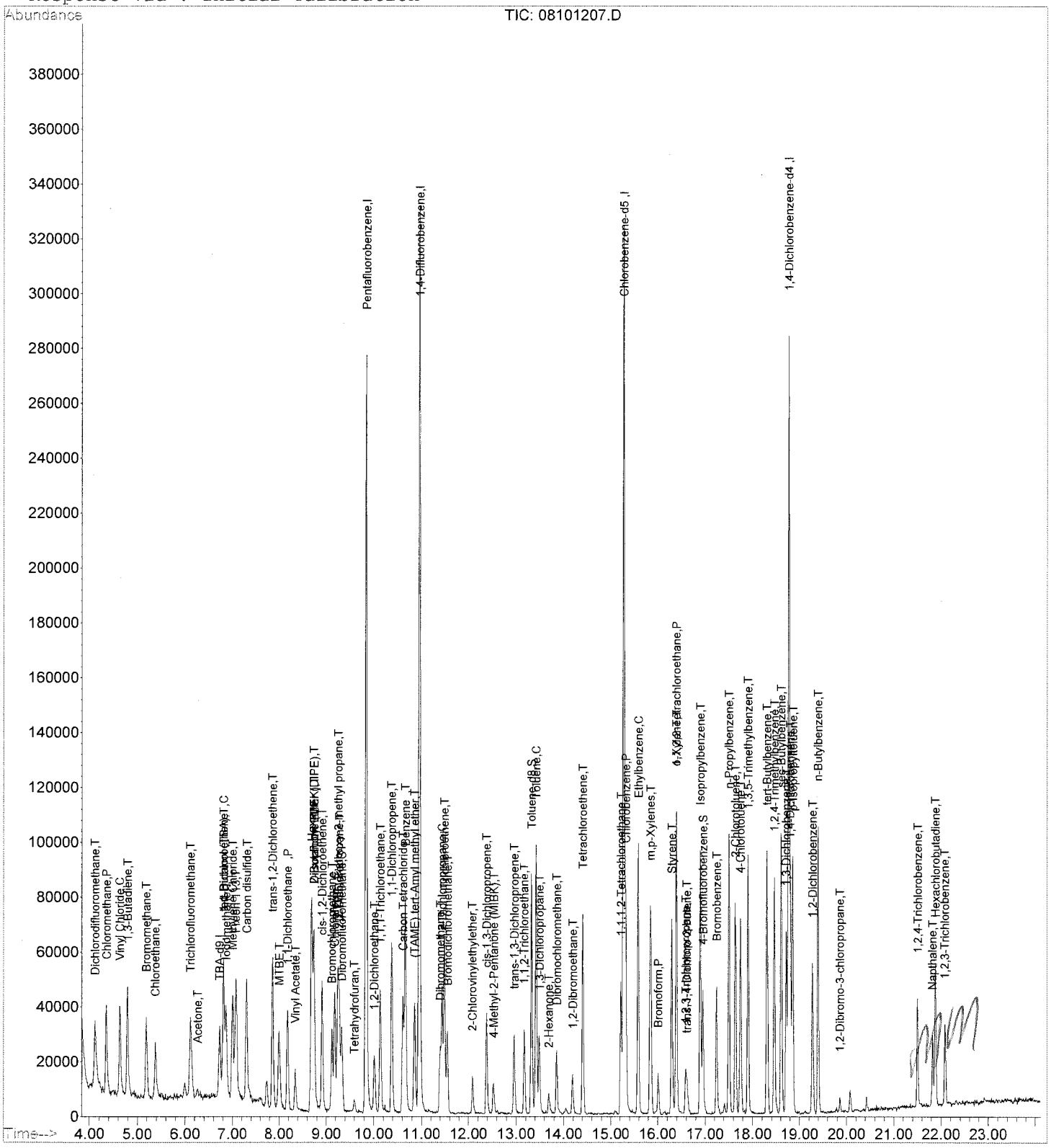
MNM

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:57 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

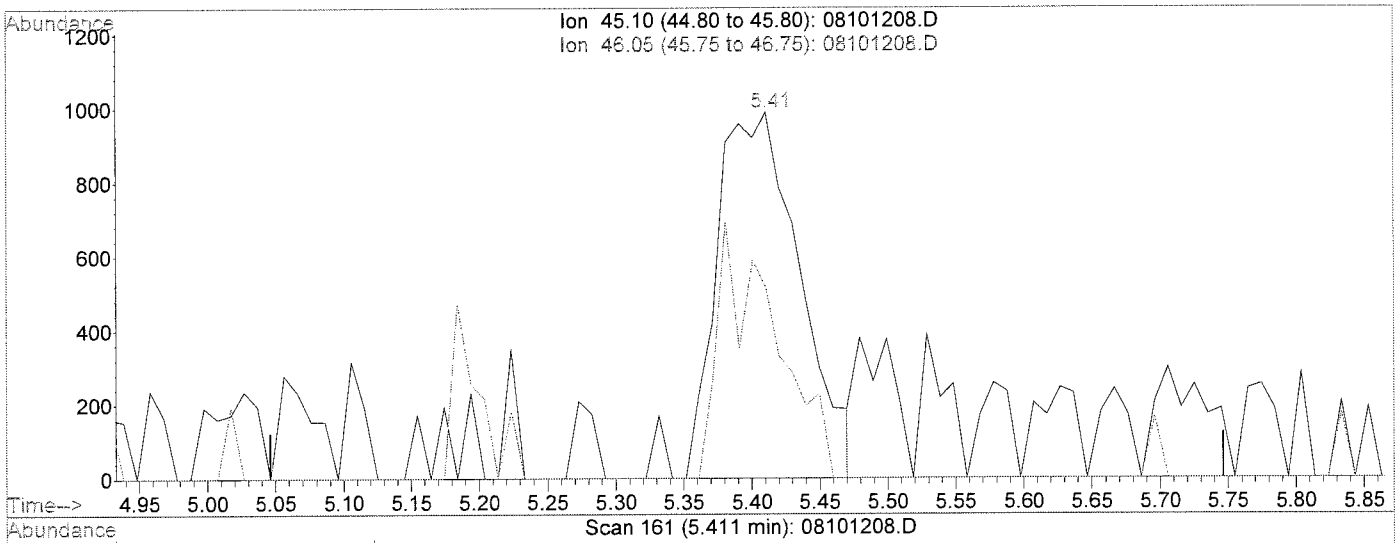


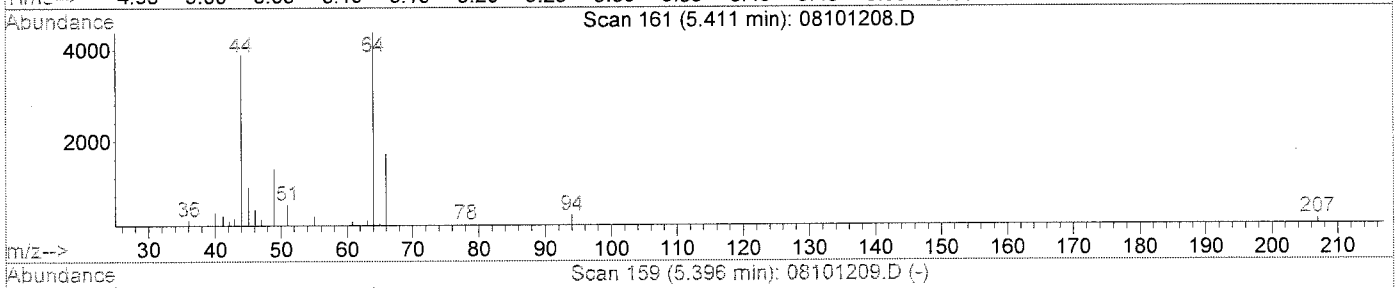
08101207.D 081012.M Mon Aug 13 05:21:57 2012

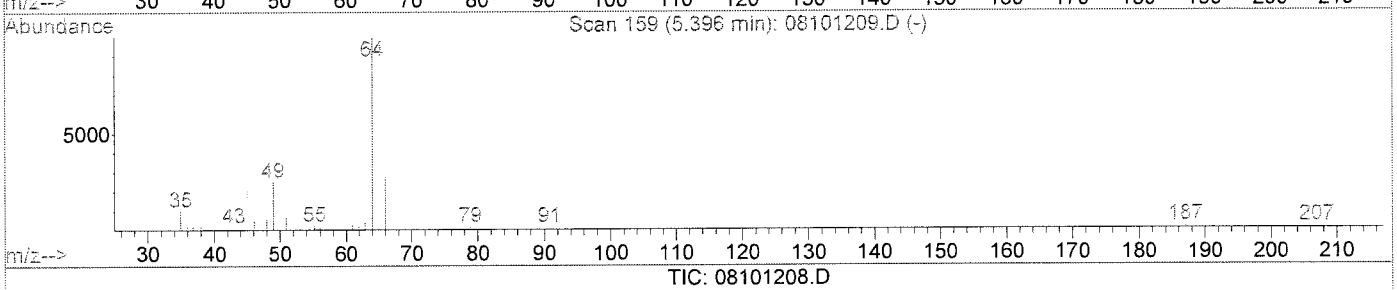
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 142.10ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

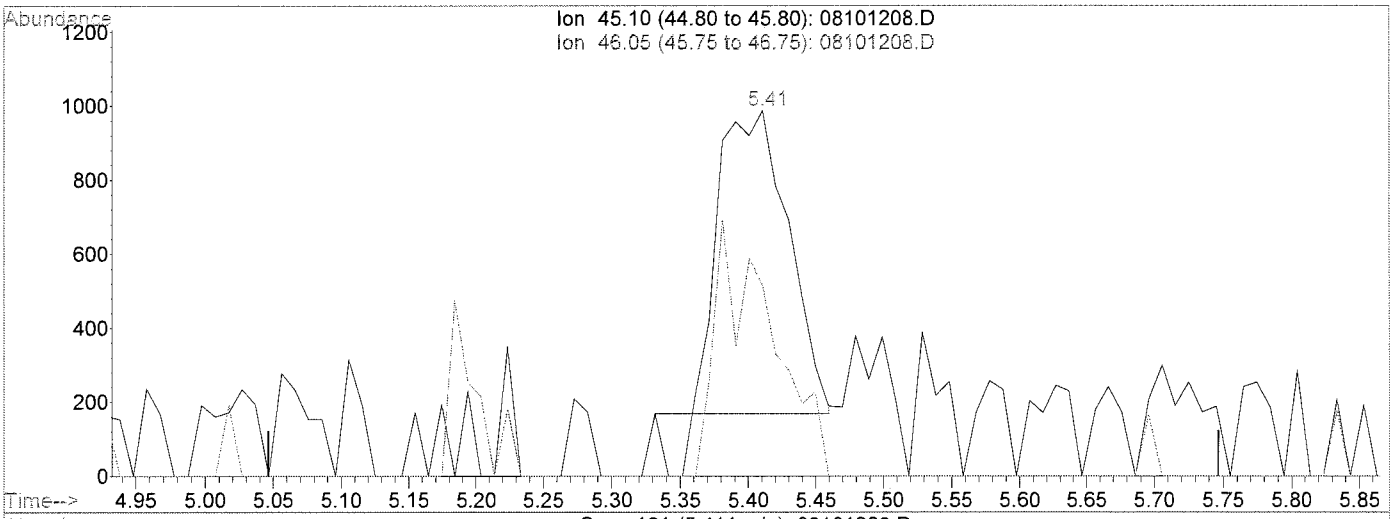
B

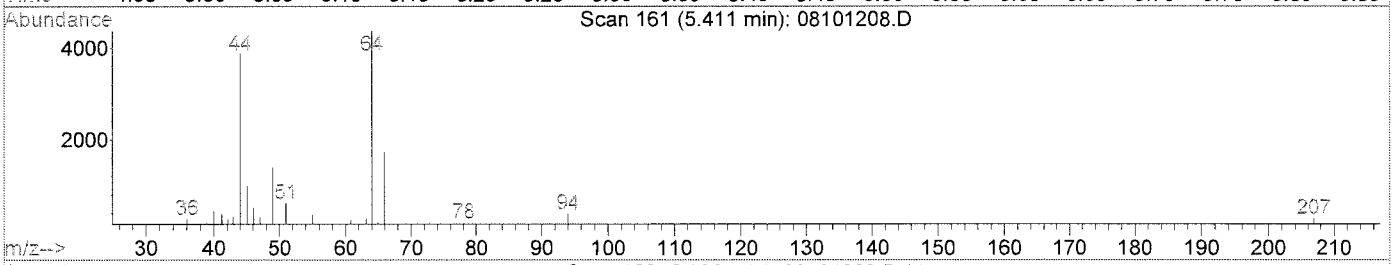
BL MM 8/13/12

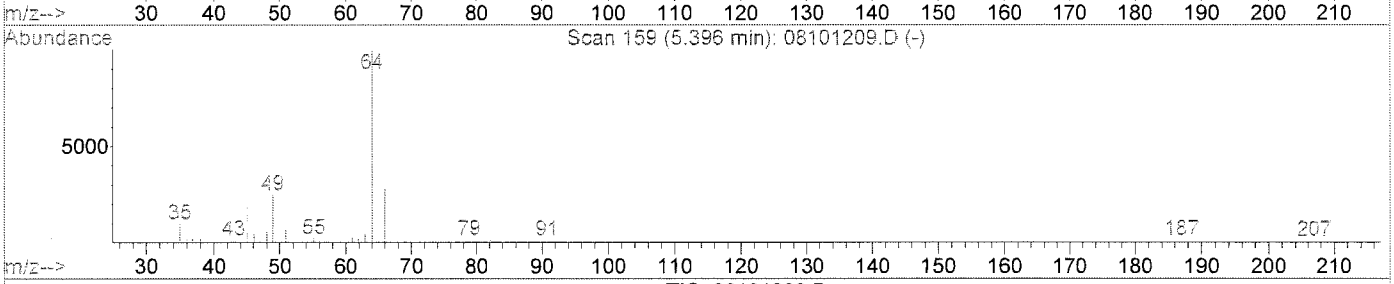
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(2) Ethanol (T)

5.41min 94.06ug/L m

response 2755

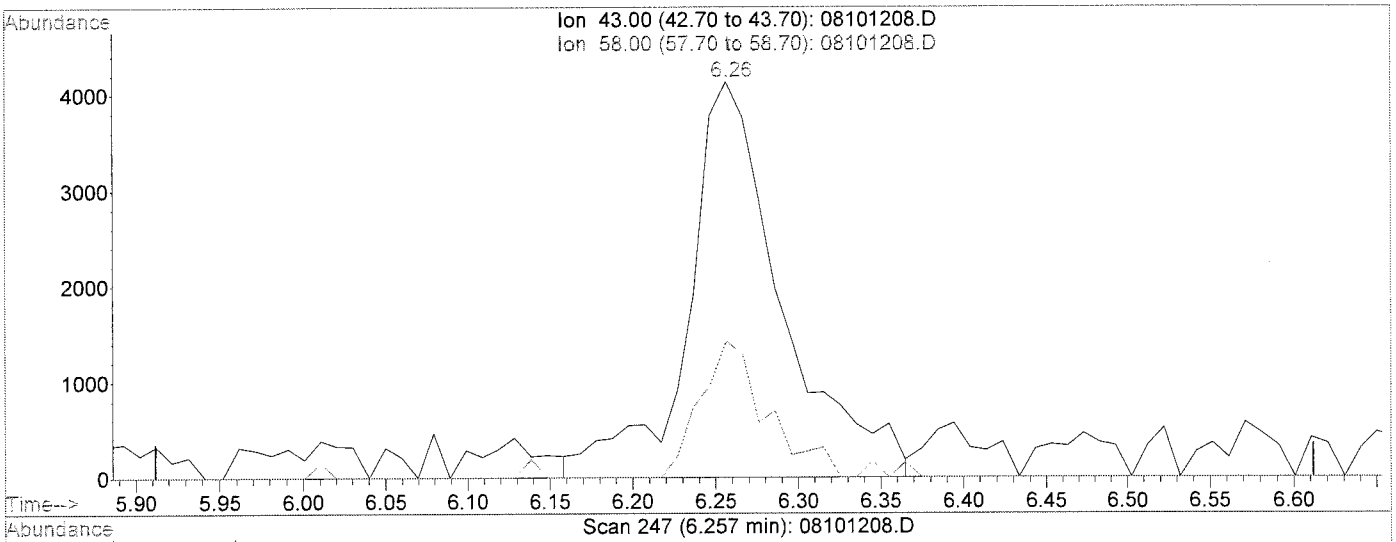
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	73.79
0.00	0.00	0.00
0.00	0.00	0.00

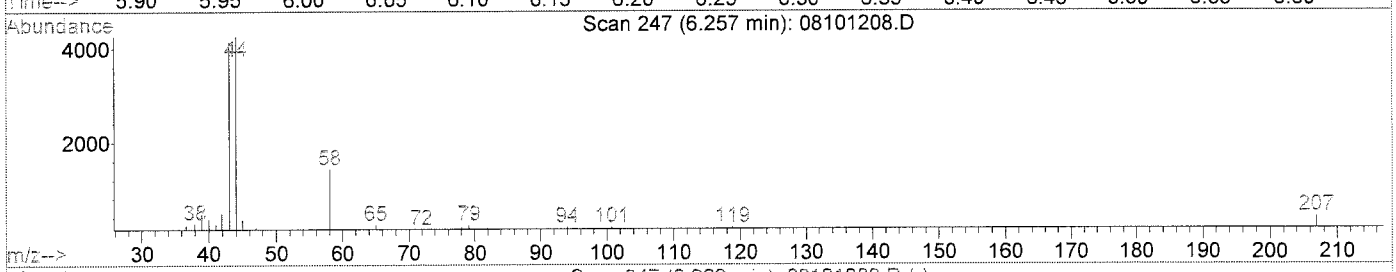
MM 8/13/12

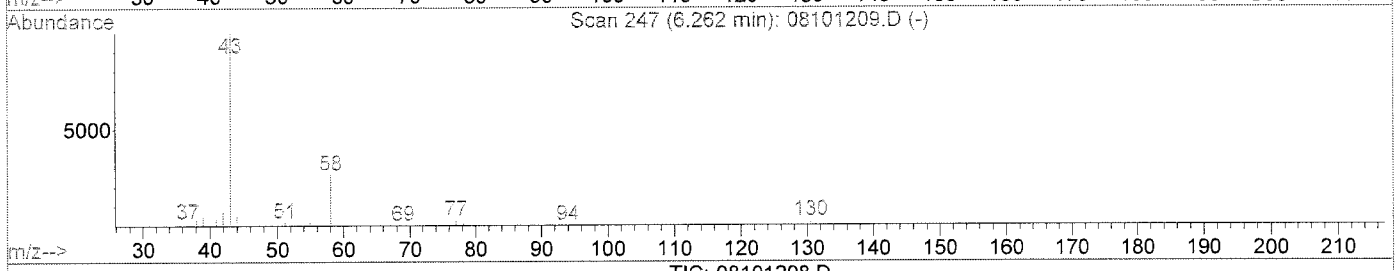
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(12) Acetone (T)

6.26min 14.56ug/L

response 16281

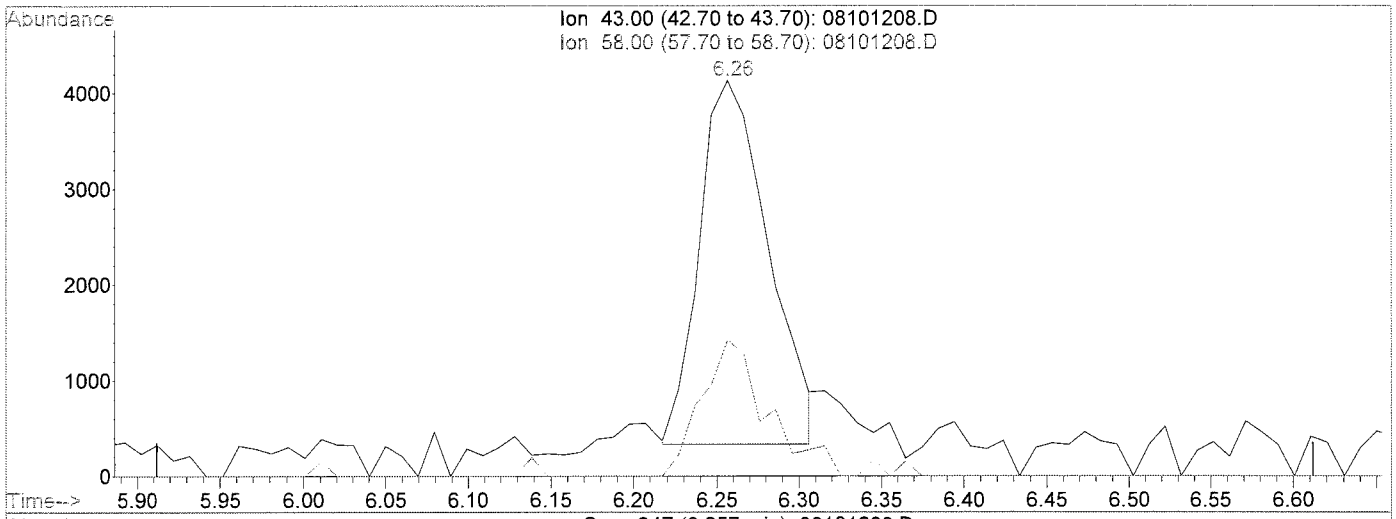
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.34#
0.00	0.00	0.00
0.00	0.00	0.00

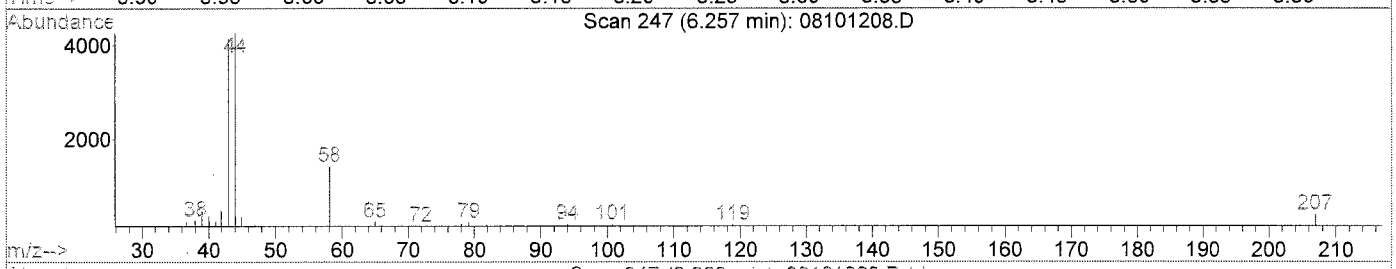
BL MM 8/13/12

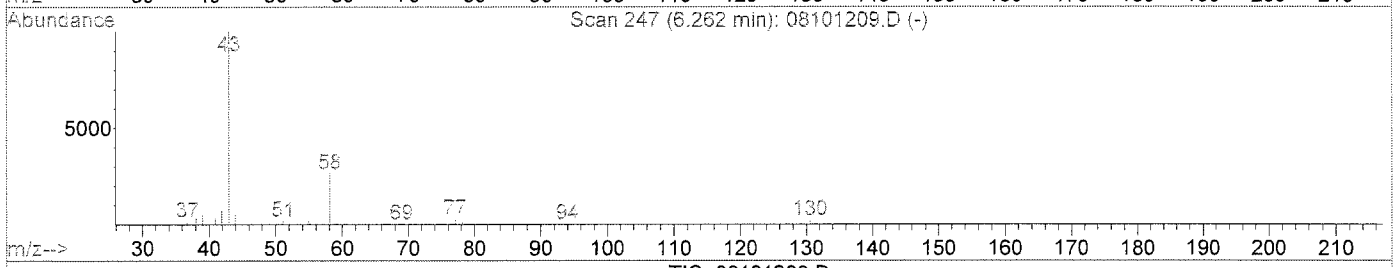
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 9.85ug/L m

response 11022

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.96
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	10.37 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.48%	
48) Toluene-d8	13.33	98	151060	10.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	42.16%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	44.48%	
Target Compounds					Qvalue
2) Ethanol	5.41	45	2755m	94.06 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	47.38 ug/L #	95
5) Dichlorodifluoromethane	4.11	85	99359	10.19 ug/L	99
6) Chloromethane	4.35	50	99085	10.44 ug/L	100
7) Vinyl Chloride	4.63	62	94725	10.91 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	10.80 ug/L	93
9) Bromomethane	5.18	94	57814	10.90 ug/L	96
10) Chloroethane	5.38	64	44676	10.38 ug/L	97
11) Trichlorofluoromethane	6.11	101	81825	10.66 ug/L	96
12) Acetone	6.26	43	11022m	9.85 ug/L	
13) Iodomethane	6.87	142	92968	10.36 ug/L	99
14) 1,1-Dichloroethene	6.81	96	53536	10.02 ug/L	97
15) Methylene Chloride	6.99	84	48433	10.18 ug/L	99
16) Freon 113	7.07	101	57249	10.35 ug/L	95
17) Carbon disulfide	7.30	76	183724	10.58 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	63718	10.29 ug/L	99
19) MTBE	8.00	73	90114	10.29 ug/L	96
20) 1,1-Dichloroethane	8.17	63	99374	10.33 ug/L	99
21) Vinyl Acetate	8.34	43	68389	10.03 ug/L	98
22) n-Hexane	8.69	86	15274	10.05 ug/L	99
23) 2-Butanone (MEK)	8.74	72	3909	10.21 ug/L #	34
24) Diisopropyl Ether (DIPE)	8.74	45	169576	10.44 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	59154	10.49 ug/L	96
26) Bromochloromethane	9.12	128	23711	10.59 ug/L	96
27) Chloroform	9.18	83	88095	10.47 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.39 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	10.37 ug/L	99
31) Tetrahydrofuran	9.59	72	3578	10.28 ug/L	96
32) 1,2-Dichloroethane	10.01	62	41085	10.12 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	75517	10.72 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	91702	9.70 ug/L	98
36) 1,1-Dichloropropene	10.38	75	86510	11.14 ug/L	98
37) Carbon Tetrachloride	10.61	117	64587	10.61 ug/L	96
38) Benzene	10.66	78	192601	10.40 ug/L	98
39) Dibromomethane	11.39	93	22947	10.49 ug/L	95
40) 1,2-Dichloropropane	11.43	63	45818	10.38 ug/L	97

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:23 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	10.32 ug/L		97
42)	Bromodichloromethane	11.55	83	54093	10.65 ug/L		99
43)	2-Chlorovinylethylether	12.09	63	17562	10.53 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	62172	10.50 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	10.20 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	46129	10.24 ug/L		97
47)	1,1,2-Trichloroethane	13.17	97	27529	10.72 ug/L		99
49)	Toluene	13.42	92	109934	10.43 ug/L		99
51)	1,3-Dichloropropane	13.49	76	47813	10.47 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.79 ug/L		99
53)	Dibromochloromethane	13.85	129	35116	10.61 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	10.66 ug/L		96
55)	Tetrachloroethene	14.41	164	47547	10.50 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	10.56 ug/L		97
57)	Chlorobenzene	15.32	112	113987	10.80 ug/L		98
58)	Ethylbenzene	15.58	91	196709	10.67 ug/L		100
59)	m,p-Xylenes	15.85	106	77315	10.99 ug/L		98
60)	Styrene	16.30	104	101282	10.75 ug/L		98
61)	o-Xylene	16.40	106	72024	11.08 ug/L		96
64)	Bromoform	16.00	173	18119	9.69 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	11.32 ug/L	#	96
66)	1,2,3-Trichloropropane	16.59	110	7207	10.24 ug/L		96
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	9.83 ug/L		94
68)	Isopropylbenzene	16.90	105	174169	10.73 ug/L		99
69)	Bromobenzene	17.24	156	41493	10.49 ug/L		96
70)	n-Propylbenzene	17.51	91	220385	10.70 ug/L		100
71)	2-Chlorotoluene	17.65	91	118995	10.68 ug/L		97
72)	4-Chlorotoluene	17.75	91	114947	10.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	140555	11.10 ug/L		99
74)	tert-Butylbenzene	18.31	119	125080	11.06 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	130209	10.87 ug/L		98
76)	sec-Butylbenzene	18.61	105	203460	11.12 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	10.93 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	10.66 ug/L		99
79)	p-Isopropyltoluene	18.86	119	152942	11.16 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	63302	10.80 ug/L		98
81)	n-Butylbenzene	19.39	91	148822	11.32 ug/L		97
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	10.63 ug/L	#	74
83)	1,2,4-Trichlorobenzene	21.50	180	37943	12.08 ug/L		98
84)	Napthalene	21.83	128	59549	11.85 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	11.81 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	11.71 ug/L		96

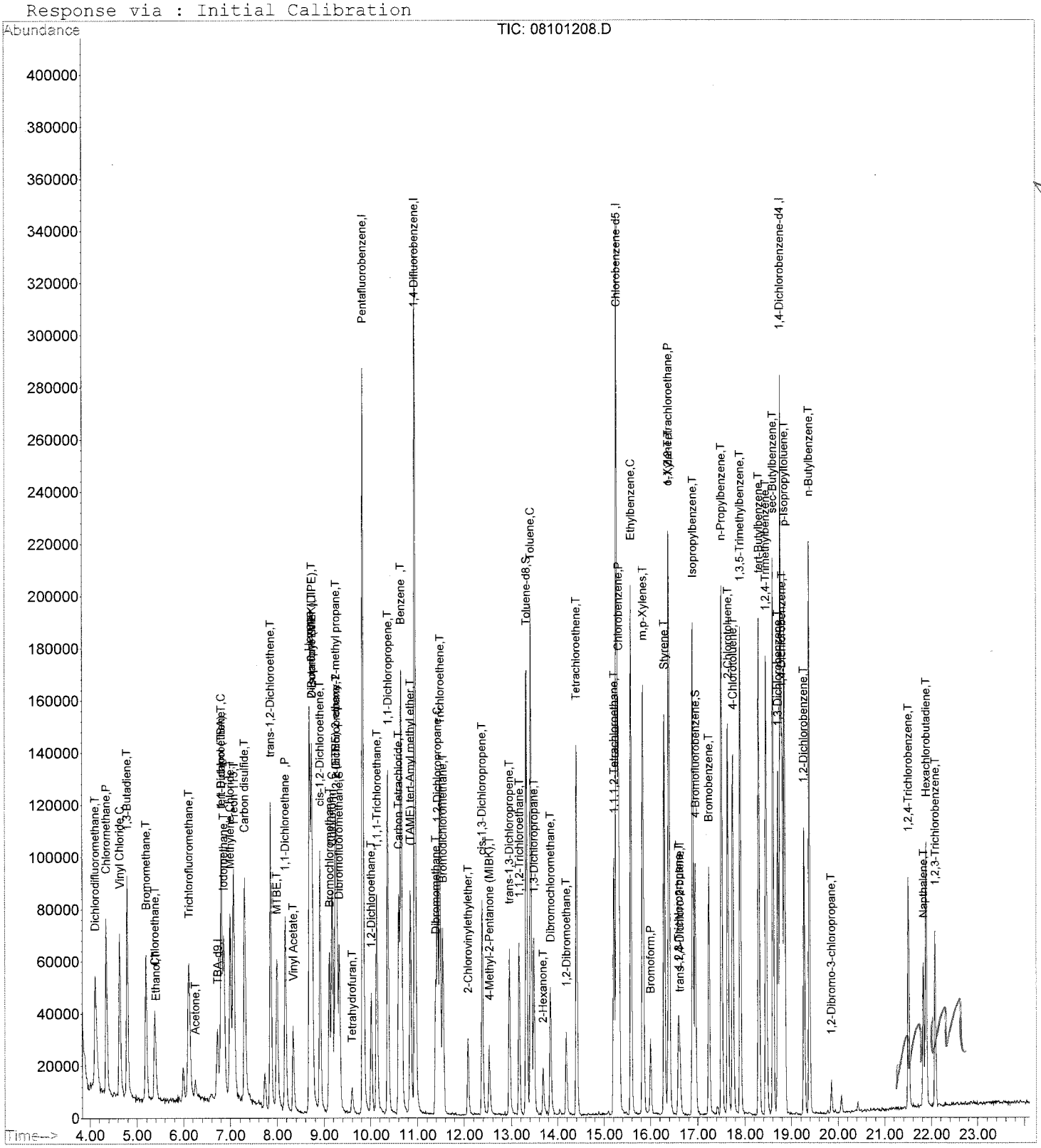
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

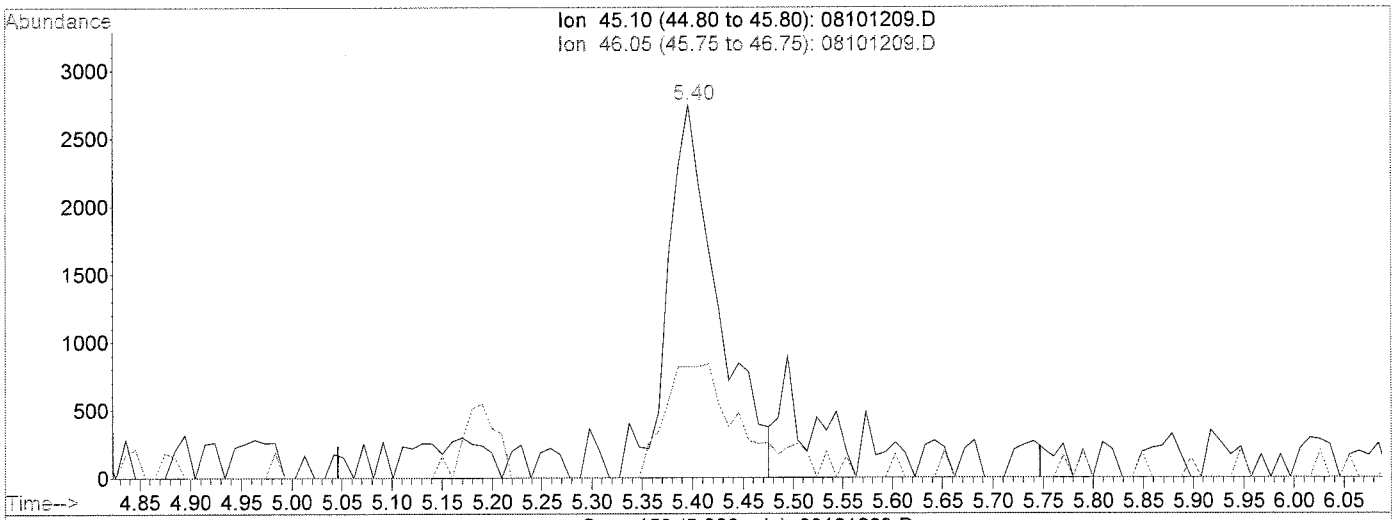
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

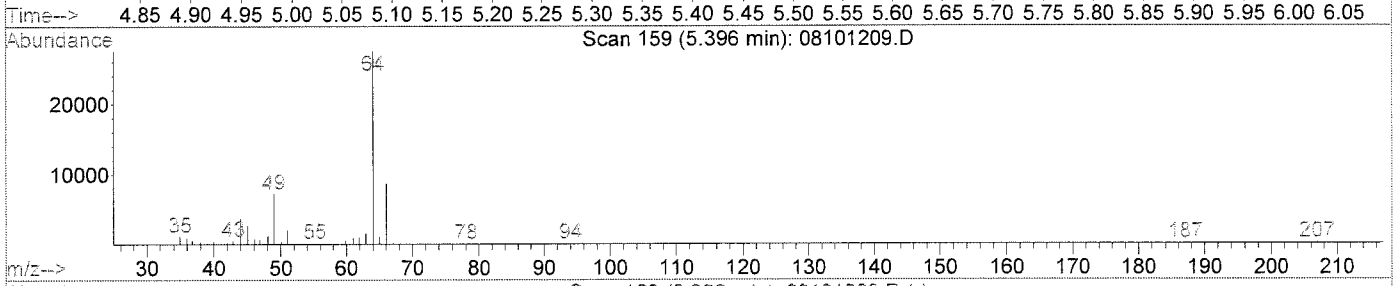


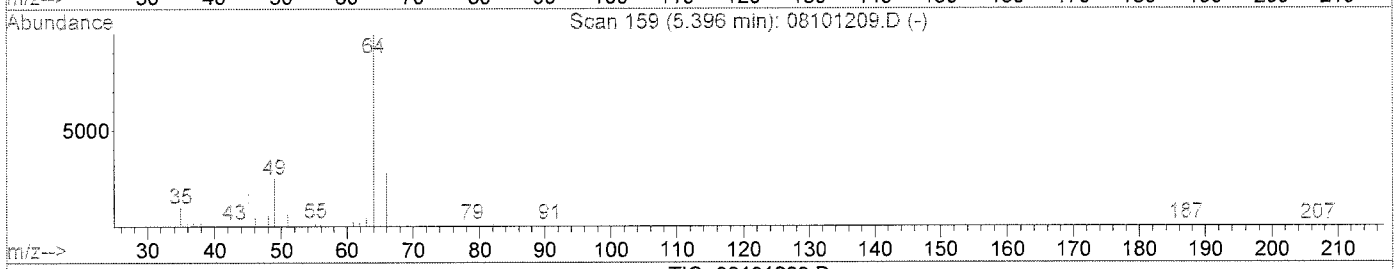
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 337.19ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

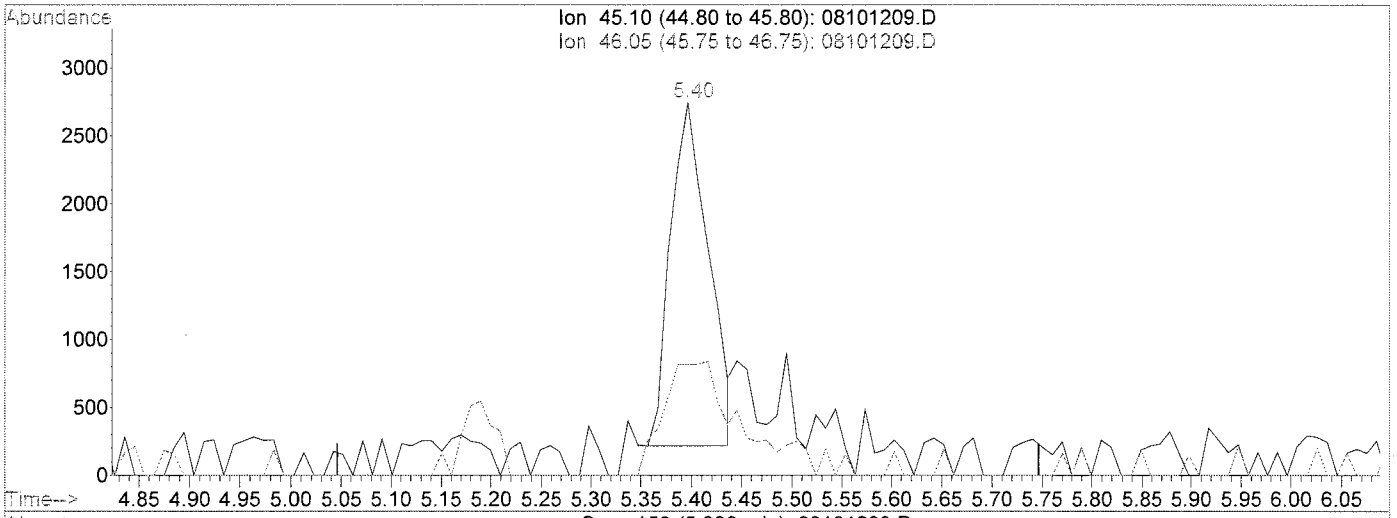
BL

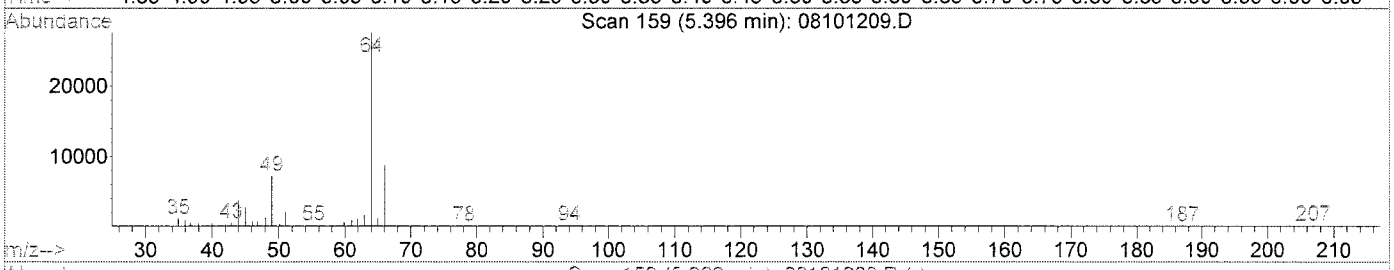
MNM 8/13/12

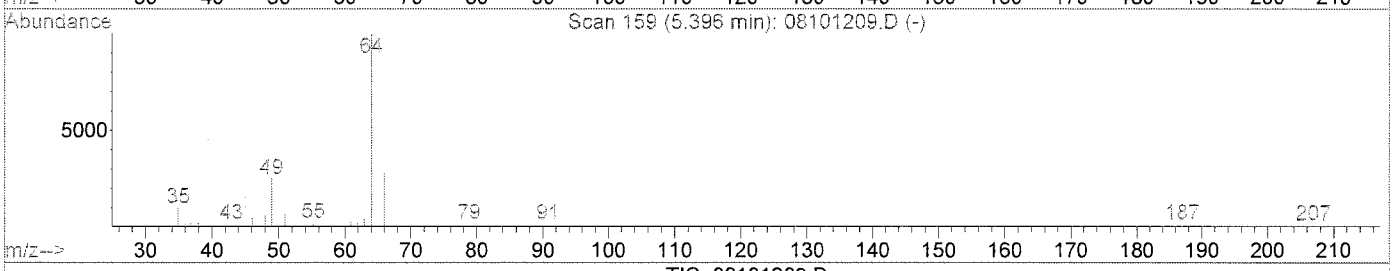
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 233.89ug/L m

response 6632

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	60.55
0.00	0.00	0.00
0.00	0.00	0.00

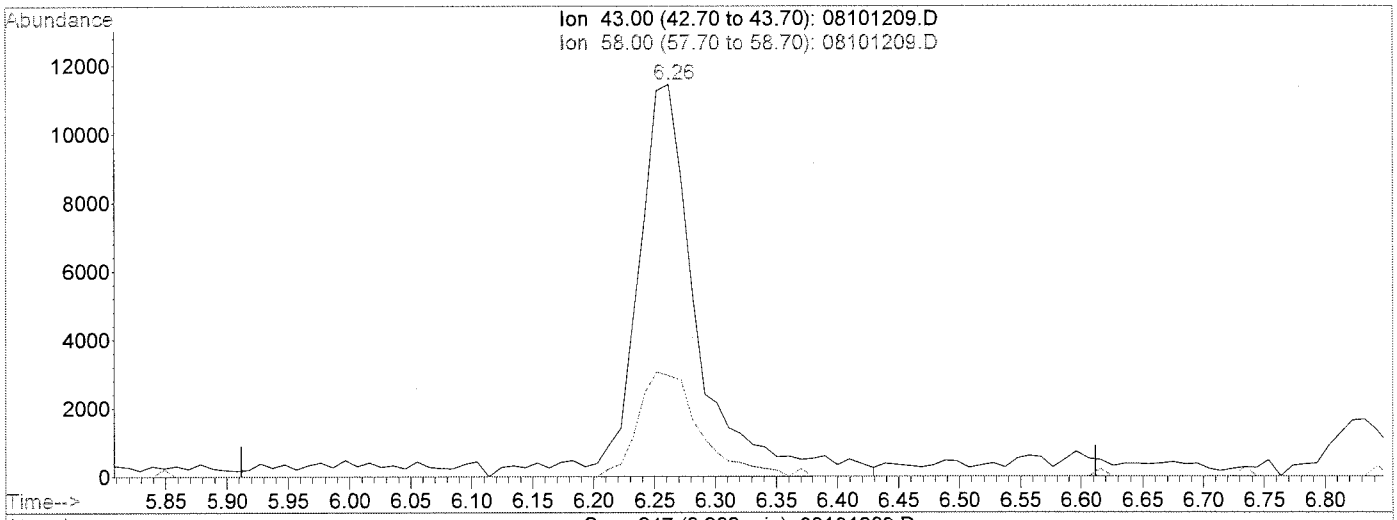
8/13/12

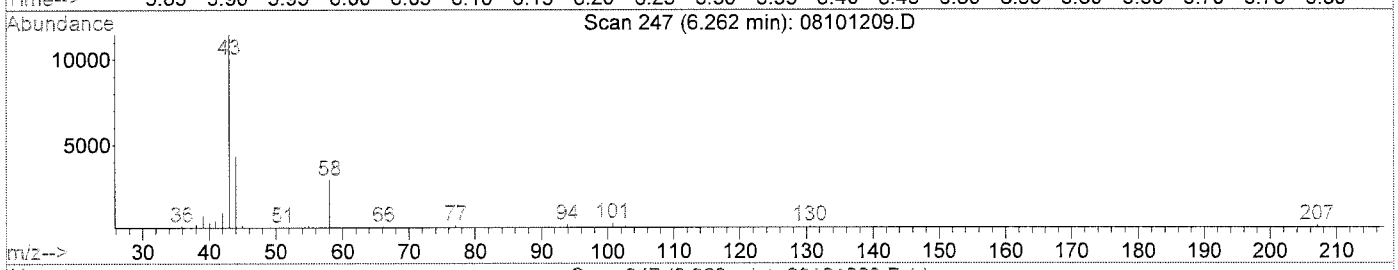
MNM 8/13/12

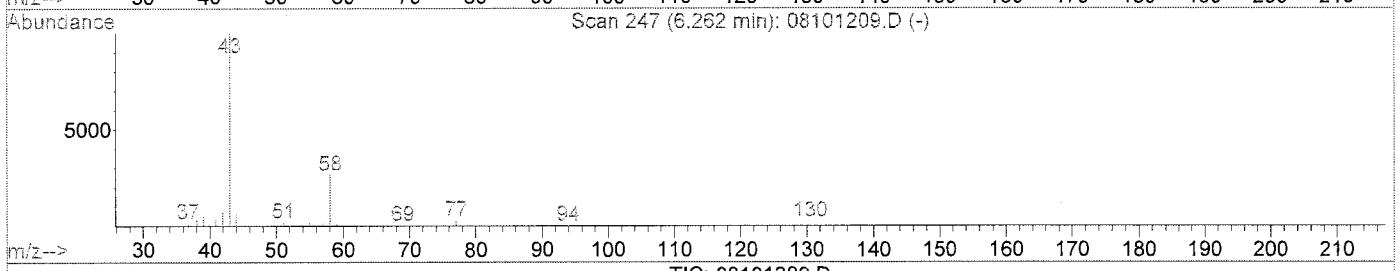
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 33.65ug/L

response 39847

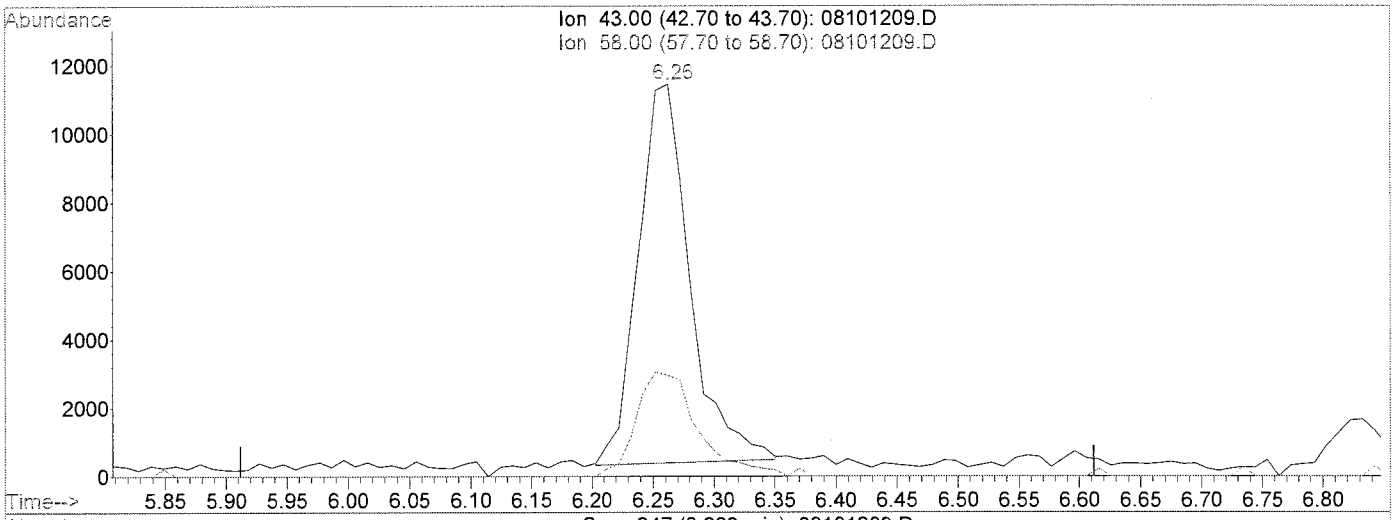
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

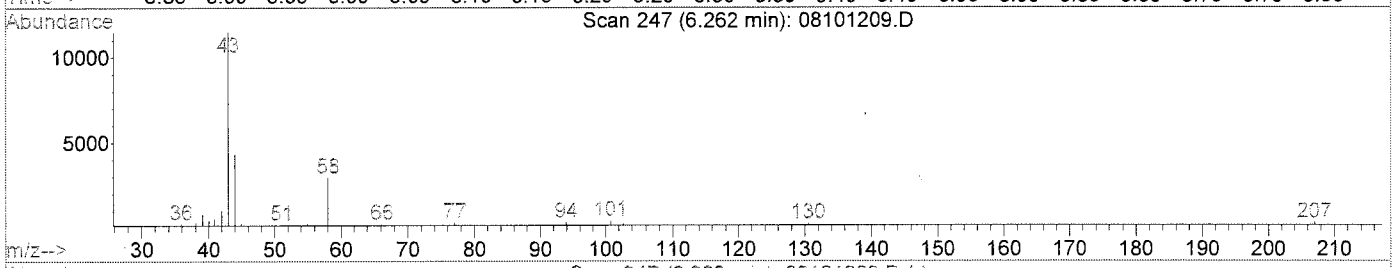
BL MM 8/13/12

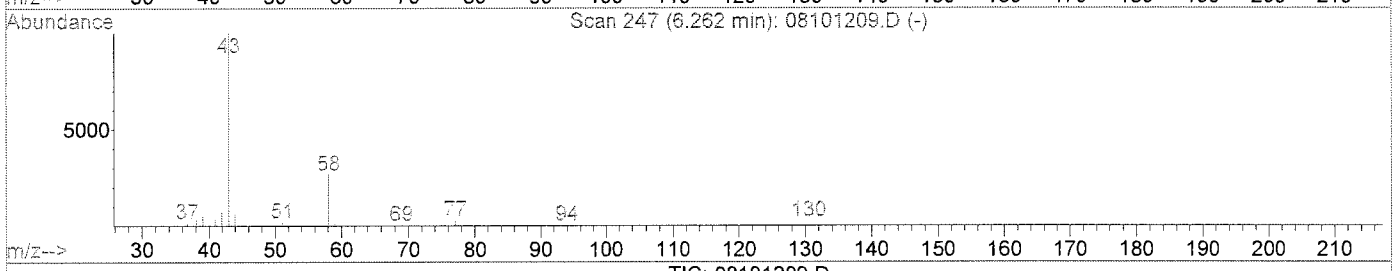
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 27.26ug/L m

response 32282

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.89
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	24.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.32%	
48) Toluene-d8	13.32	98	387904	25.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.52%	
62) 4-Bromofluorobenzene	16.95	95	104965	24.87 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.48%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6632m	233.89 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	127.92 ug/L	100
5) Dichlorodifluoromethane	4.11	85	259999	25.19 ug/L	100
6) Chloromethane	4.35	50	249108	24.80 ug/L	100
7) Vinyl Chloride	4.63	62	234281	25.48 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	25.57 ug/L	100
9) Bromomethane	5.19	94	136870	24.38 ug/L	100
10) Chloroethane	5.38	64	115028	25.23 ug/L	100
11) Trichlorofluoromethane	6.11	101	203736	25.07 ug/L	100
12) Acetone	6.26	43	32282m	27.26 ug/L	
13) Iodomethane	6.86	142	233911	24.63 ug/L	100
14) 1,1-Dichloroethene	6.81	96	132114	23.36 ug/L	100
15) Methylene Chloride	7.00	84	120484	23.93 ug/L	100
16) Freon 113	7.07	101	146166	24.95 ug/L	100
17) Carbon disulfide	7.29	76	465019	25.28 ug/L	100
18) trans-1,2-Dichloroethene	7.87	96	156993	23.93 ug/L	100
19) MTBE	8.00	73	227954	24.58 ug/L	100
20) 1,1-Dichloroethane	8.18	63	249879	24.53 ug/L	100
21) Vinyl Acetate	8.34	43	179194	24.82 ug/L	100
22) n-Hexane	8.69	86	38470	23.89 ug/L	100
23) 2-Butanone (MEK)	8.73	72	10850	26.78 ug/L #	100
24) Diisopropyl Ether (DIPE)	8.74	45	414456	24.10 ug/L	100
25) cis-1,2-Dichloroethene	8.91	96	143999	24.12 ug/L	100
26) Bromochloromethane	9.11	128	58383	24.63 ug/L	100
27) Chloroform	9.17	83	223471	25.08 ug/L	100
28) 2,2-Dichloropropane	9.27	77	163680	24.27 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	24.00 ug/L	100
31) Tetrahydrofuran	9.60	72	8067	21.89 ug/L	100
32) 1,2-Dichloroethane	10.01	62	105341	24.51 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	190354	25.51 ug/L	100
34) (TAME) tert-Amyl methyl et	10.86	73	241539	24.14 ug/L	100
36) 1,1-Dichloropropene	10.37	75	205389	24.57 ug/L	100
37) Carbon Tetrachloride	10.61	117	164083	25.03 ug/L	100
38) Benzene	10.66	78	497157	24.92 ug/L	100
39) Dibromomethane	11.39	93	58226	24.72 ug/L	100
40) 1,2-Dichloropropane	11.44	63	118189	24.87 ug/L	100

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:50 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	140936	25.20 ug/L	100
42) Bromodichloromethane	11.55	83	140799	25.74 ug/L	100
43) 2-Chlorovinylethylether	12.08	63	44348	24.69 ug/L	100
44) cis-1,3-Dichloropropene	12.39	75	164809	25.84 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	66778	23.32 ug/L	100
46) trans-1,3-Dichloropropene	12.95	75	123650	25.49 ug/L	100
47) 1,1,2-Trichloroethane	13.17	97	72275	26.13 ug/L	100
49) Toluene	13.42	92	282282	24.88 ug/L	100
51) 1,3-Dichloropropane	13.49	76	124333	25.64 ug/L	100
52) 2-Hexanone	13.69	43	53049	26.17 ug/L	100
53) Dibromochloromethane	13.86	129	92023	26.17 ug/L	100
54) 1,2-Dibromoethane	14.18	107	76183	25.85 ug/L	100
55) Tetrachloroethene	14.41	164	125279	26.04 ug/L	100
56) 1,1,1,2-Tetrachloroethane	15.21	131	102745	26.65 ug/L	100
57) Chlorobenzene	15.32	112	287853	25.67 ug/L	100
58) Ethylbenzene	15.59	91	512045	26.15 ug/L	100
59) m,p-Xylenes	15.84	106	195904	26.22 ug/L	100
60) Styrene	16.29	104	271388	27.12 ug/L	100
61) o-Xylene	16.39	106	178278	25.82 ug/L	100
64) Bromoform	16.01	173	52543	24.31 ug/L	100
65) 1,1,2,2-Tetrachloroethane	16.39	83	80822	23.97 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	19363	23.82 ug/L	100
67) trans-1,4-Dichloro-2-buten	16.62	53	18848	22.87 ug/L	100
68) Isopropylbenzene	16.89	105	450007	24.00 ug/L	100
69) Bromobenzene	17.25	156	113170	24.77 ug/L	100
70) n-Propylbenzene	17.50	91	579703	24.35 ug/L	100
71) 2-Chlorotoluene	17.64	91	304359	23.65 ug/L	100
72) 4-Chlorotoluene	17.75	91	297241	23.61 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	362766	24.80 ug/L	100
74) tert-Butylbenzene	18.30	119	324105	24.81 ug/L	100
75) 1,2,4-Trimethylbenzene	18.46	105	337490	24.39 ug/L	100
76) sec-Butylbenzene	18.61	105	528569	25.01 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	201590	24.24 ug/L	100
78) 1,4-Dichlorobenzene	18.81	146	196096	24.05 ug/L	100
79) p-Isopropyltoluene	18.85	119	400272	25.27 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	166930	24.66 ug/L	100
81) n-Butylbenzene	19.39	91	388212	25.56 ug/L	100
82) 1,2-Dibromo-3-chloropropan	19.86	75	9202	27.08 ug/L	100
83) 1,2,4-Trichlorobenzene	21.51	180	95814	26.39 ug/L	100
84) Napthalene	21.82	128	152397	26.24 ug/L	100
85) Hexachlorobutadiene	21.88	225	71752	28.94 ug/L	100
86) 1,2,3-Trichlorobenzene	22.09	180	77645	26.44 ug/L	100

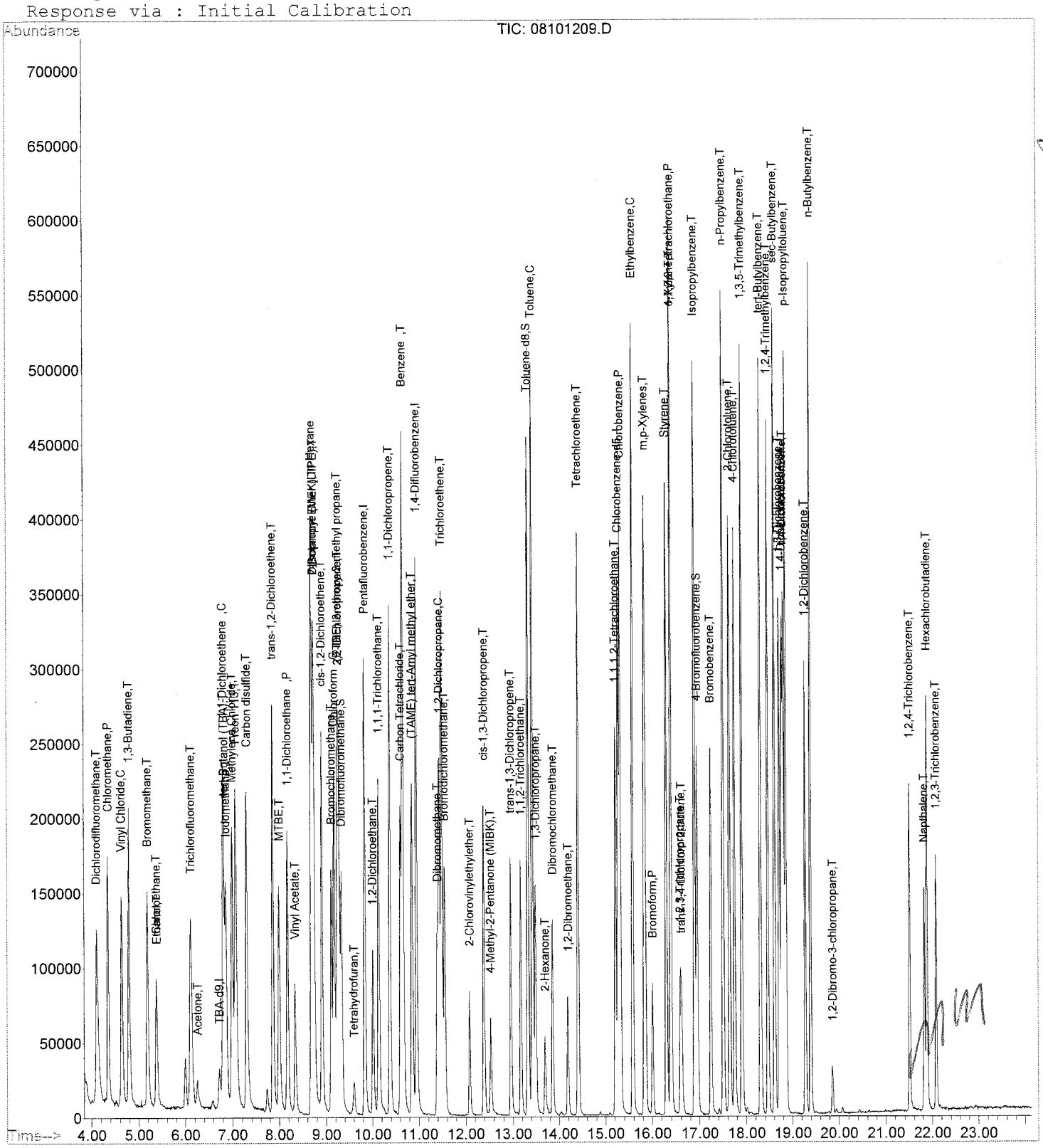
MNM

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

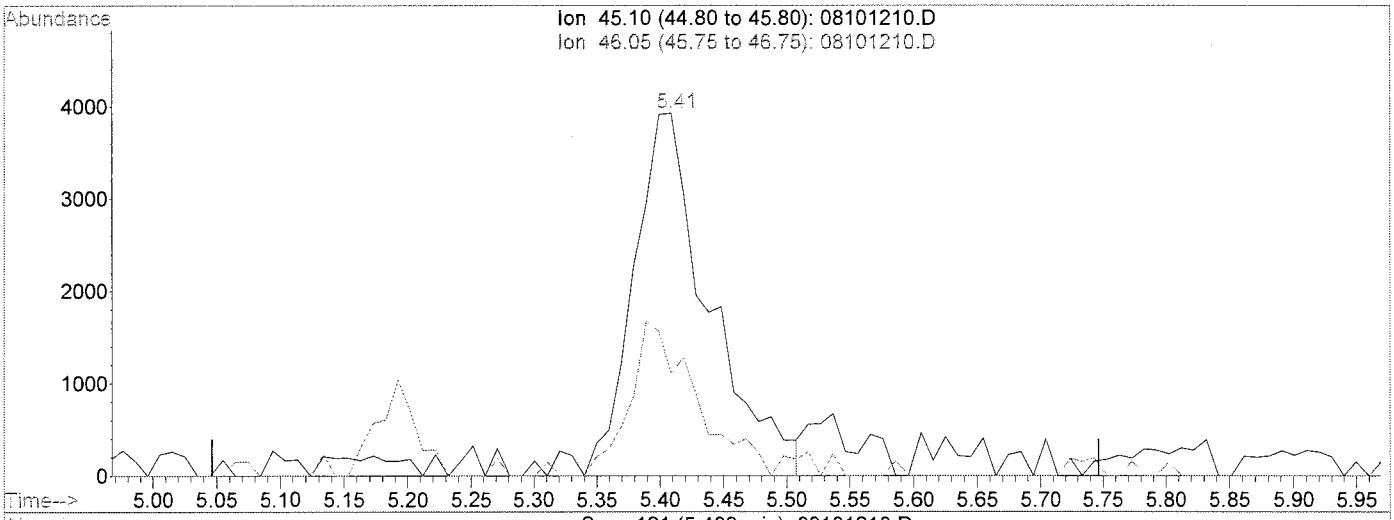
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

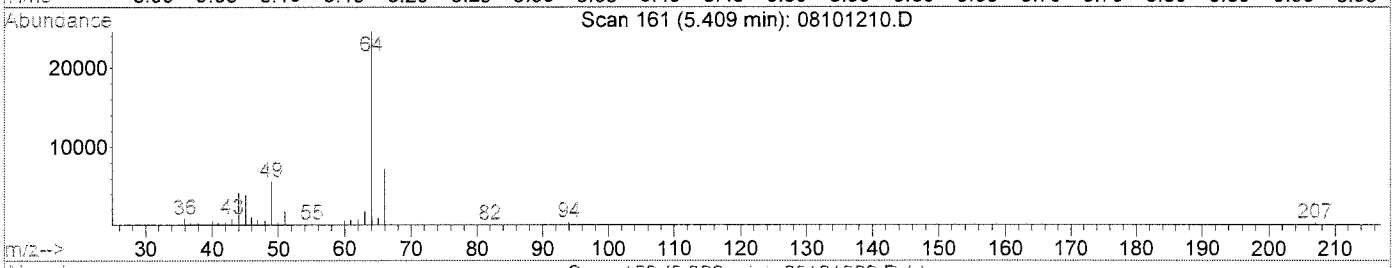


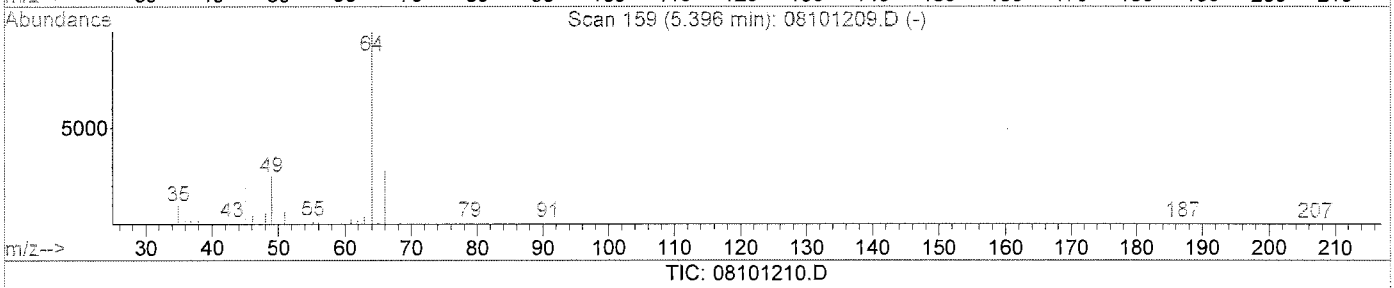
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 570.69ug/L

response 16581

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	36.61#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

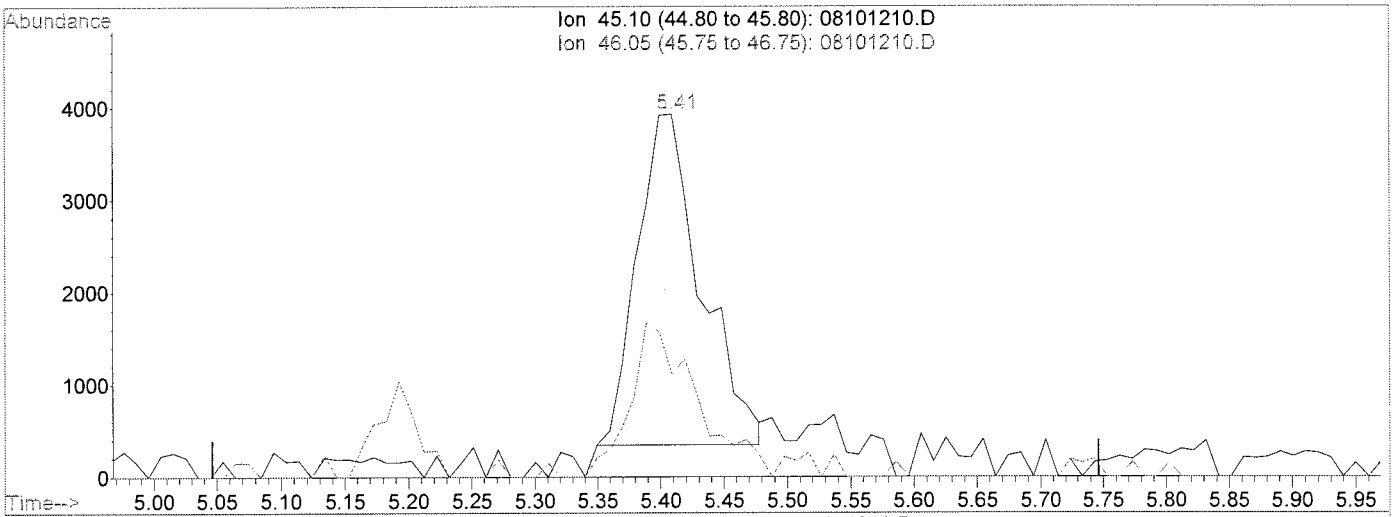
B

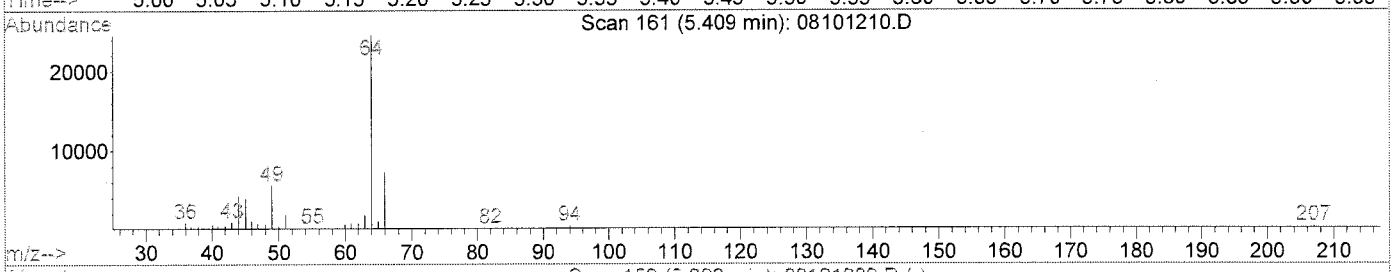
BL MM 8/13/12

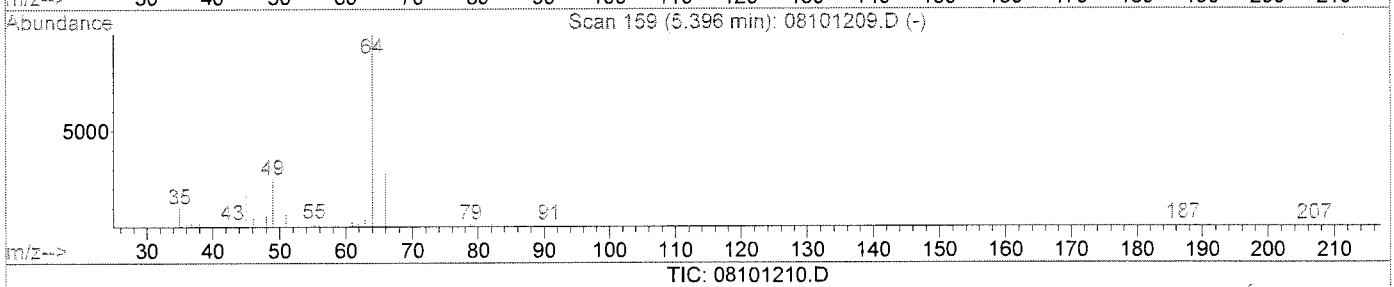
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 429.61ug/L m

response 12482

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.64
0.00	0.00	0.00
0.00	0.00	0.00

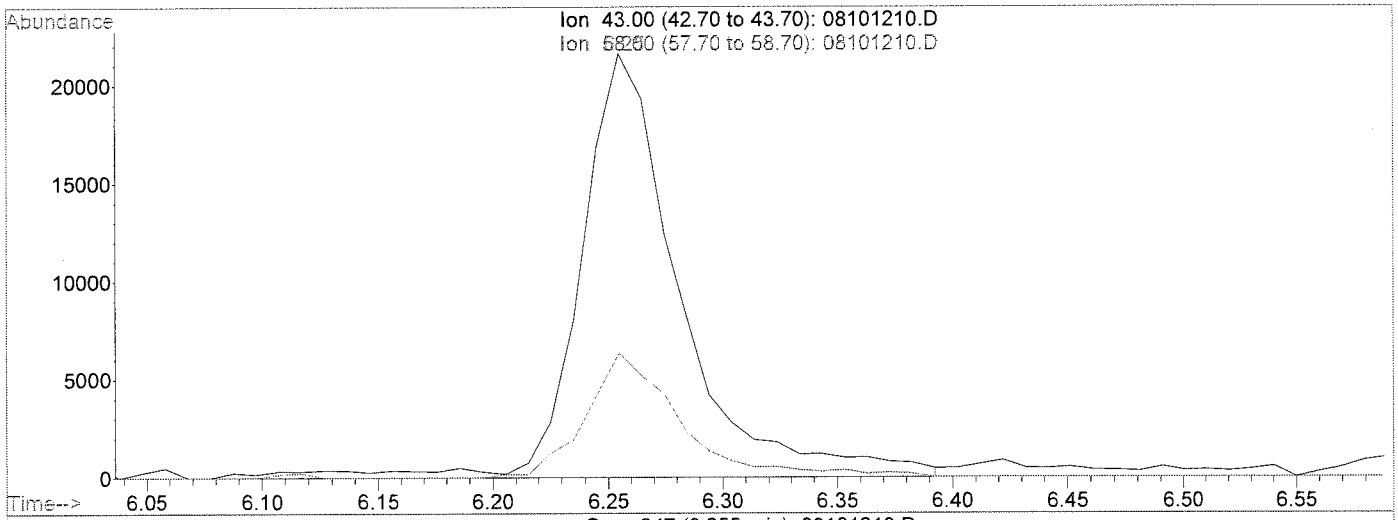
8/13/12

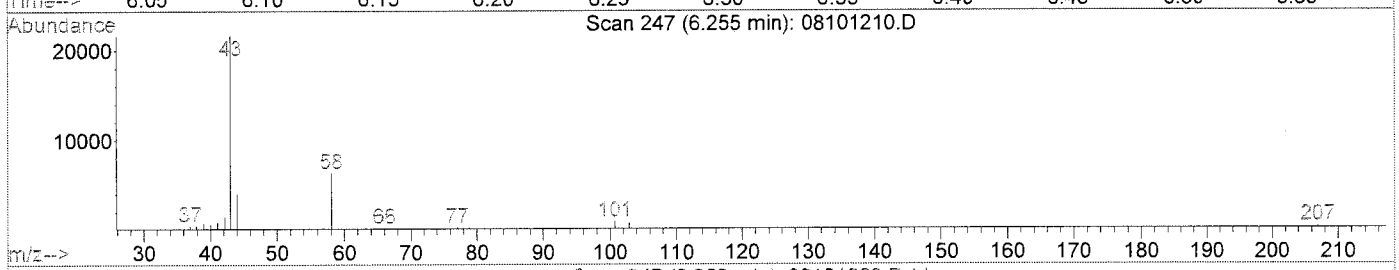
MNM 8/13/12

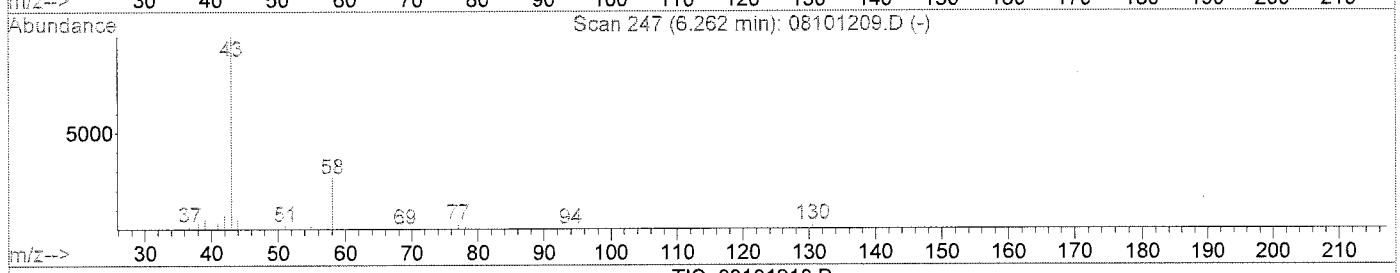
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 56.11ug/L

response 63143

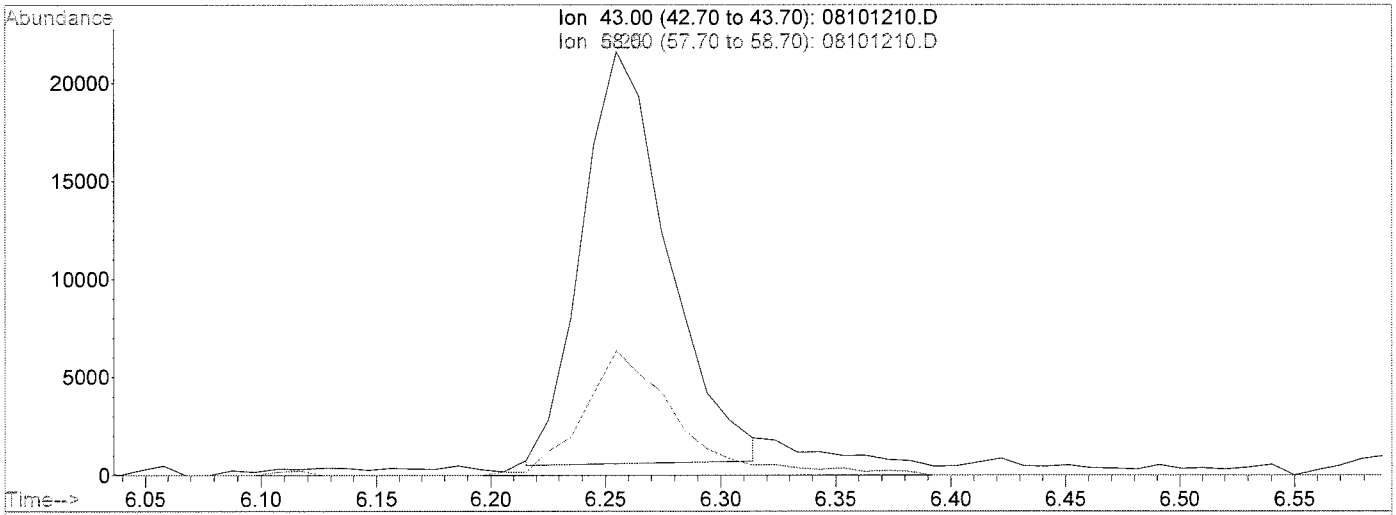
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

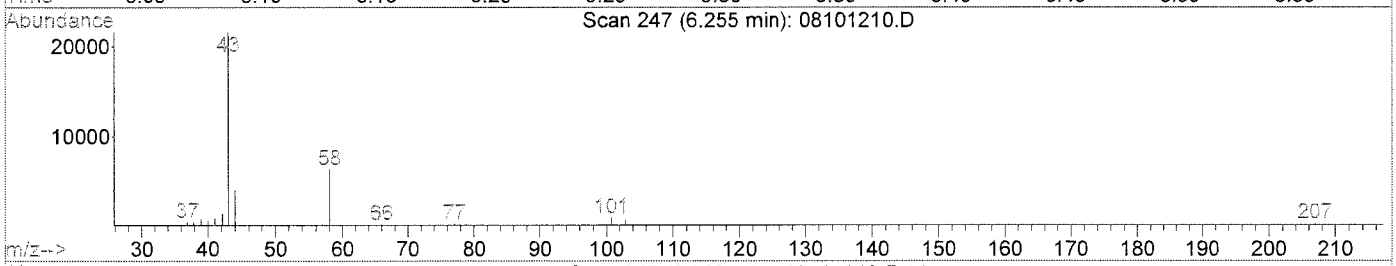
MM 8/13/12

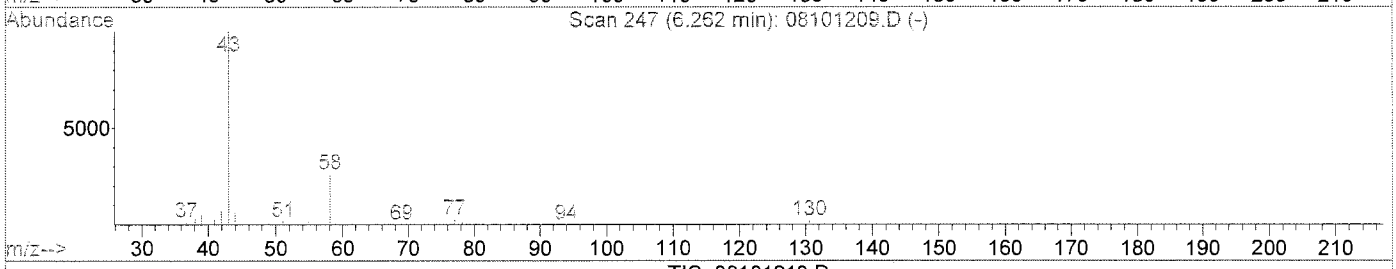
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(12) Acetone (T)

6.25min 48.26ug/L m

response 54317

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.29
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	46.80 ug/L	0.00
Spiked Amount 25.000			Recovery	= 187.20%	
48) Toluene-d8	13.33	98	687603	46.66 ug/L	0.00
Spiked Amount 25.000			Recovery	= 186.64%	
62) 4-Bromofluorobenzene	16.96	95	191956	46.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 184.44%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12482m	429.61 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	226.53 ug/L	99
5) Dichlorodifluoromethane	4.11	85	495471	50.51 ug/L	99
6) Chloromethane	4.36	50	463586	48.56 ug/L	98
7) Vinyl Chloride	4.63	62	430153	49.24 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	50.13 ug/L	99
9) Bromomethane	5.19	94	266149	49.88 ug/L	99
10) Chloroethane	5.38	64	224829	51.89 ug/L	97
11) Trichlorofluoromethane	6.12	101	394660	51.11 ug/L	100
12) Acetone	6.25	43	54317m	48.26 ug/L	
13) Iodomethane	6.86	142	447731	49.61 ug/L	100
14) 1,1-Dichloroethene	6.81	96	253470	47.16 ug/L	99
15) Methylene Chloride	7.00	84	232960	48.68 ug/L	98
16) Freon 113	7.07	101	270520	48.59 ug/L	97
17) Carbon disulfide	7.30	76	898748	51.41 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	303726	48.73 ug/L	99
19) MTBE	8.01	73	432429	49.07 ug/L	100
20) 1,1-Dichloroethane	8.18	63	476710	49.25 ug/L	99
21) Vinyl Acetate	8.34	43	345852	50.41 ug/L	99
22) n-Hexane	8.69	86	77107	50.40 ug/L	89
23) 2-Butanone (MEK)	8.72	72	17742	46.08 ug/L #	16
24) Diisopropyl Ether (DIPE)	8.73	45	798842	48.89 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	279884	49.33 ug/L	98
26) Bromochloromethane	9.12	128	116879	51.89 ug/L	92
27) Chloroform	9.18	83	417208	49.27 ug/L	99
28) 2,2-Dichloropropane	9.27	77	310117	48.38 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	48.67 ug/L	100
31) Tetrahydrofuran	9.60	72	16252	46.41 ug/L	89
32) 1,2-Dichloroethane	10.01	62	203344	49.78 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	353898	49.91 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	466510	49.07 ug/L	99
36) 1,1-Dichloropropene	10.38	75	398689	49.96 ug/L	98
37) Carbon Tetrachloride	10.61	117	317819	50.79 ug/L	99
38) Benzene	10.66	78	947346	49.75 ug/L	100
39) Dibromomethane	11.39	93	114917	51.12 ug/L	98
40) 1,2-Dichloropropane	11.44	63	221264	48.77 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	49.69 ug/L	99
42) Bromodichloromethane	11.55	83	271789	52.05 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	88468	51.59 ug/L	98
44) cis-1,3-Dichloropropene	12.38	75	321115	52.74 ug/L	99
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	47.91 ug/L	98
46) trans-1,3-Dichloropropene	12.95	75	237953	51.39 ug/L	99
47) 1,1,2-Trichloroethane	13.17	97	137777	52.19 ug/L	97
49) Toluene	13.42	92	546857	50.49 ug/L	99
51) 1,3-Dichloropropane	13.48	76	244280	51.06 ug/L	99
52) 2-Hexanone	13.68	43	100587	50.30 ug/L	96
53) Dibromochloromethane	13.85	129	183912	53.02 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	48.95 ug/L	97
55) Tetrachloroethene	14.41	164	226510	47.72 ug/L	98
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	49.15 ug/L	98
57) Chlorobenzene	15.32	112	554587	50.15 ug/L	98
58) Ethylbenzene	15.58	91	975473	50.50 ug/L	100
59) m,p-Xylenes	15.85	106	377996	51.28 ug/L	99
60) Styrene	16.30	104	514481	52.12 ug/L	99
61) o-Xylene	16.40	106	349209	51.26 ug/L	97
64) Bromoform	16.01	173	108591	53.31 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	49.23 ug/L	99
66) 1,2,3-Trichloropropane	16.59	110	37829	49.38 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	44.24 ug/L	89
68) Isopropylbenzene	16.90	105	857226	48.50 ug/L	98
69) Bromobenzene	17.25	156	212979	49.45 ug/L	97
70) n-Propylbenzene	17.51	91	1098531	48.96 ug/L	100
71) 2-Chlorotoluene	17.65	91	577687	47.62 ug/L	99
72) 4-Chlorotoluene	17.75	91	568985	47.96 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	676601	49.08 ug/L	100
74) tert-Butylbenzene	18.30	119	601956	48.89 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	638890	49.00 ug/L	99
76) sec-Butylbenzene	18.61	105	960020	48.19 ug/L	100
77) 1,3-Dichlorobenzene	18.72	146	388318	49.55 ug/L	98
78) 1,4-Dichlorobenzene	18.81	146	375463	48.86 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	49.72 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	317732	49.79 ug/L	100
81) n-Butylbenzene	19.39	91	715599	49.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	53.36 ug/L	98
83) 1,2,4-Trichlorobenzene	21.51	180	170461	49.82 ug/L	97
84) Napthalene	21.83	128	258045	47.14 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	50.23 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	49.90 ug/L	96

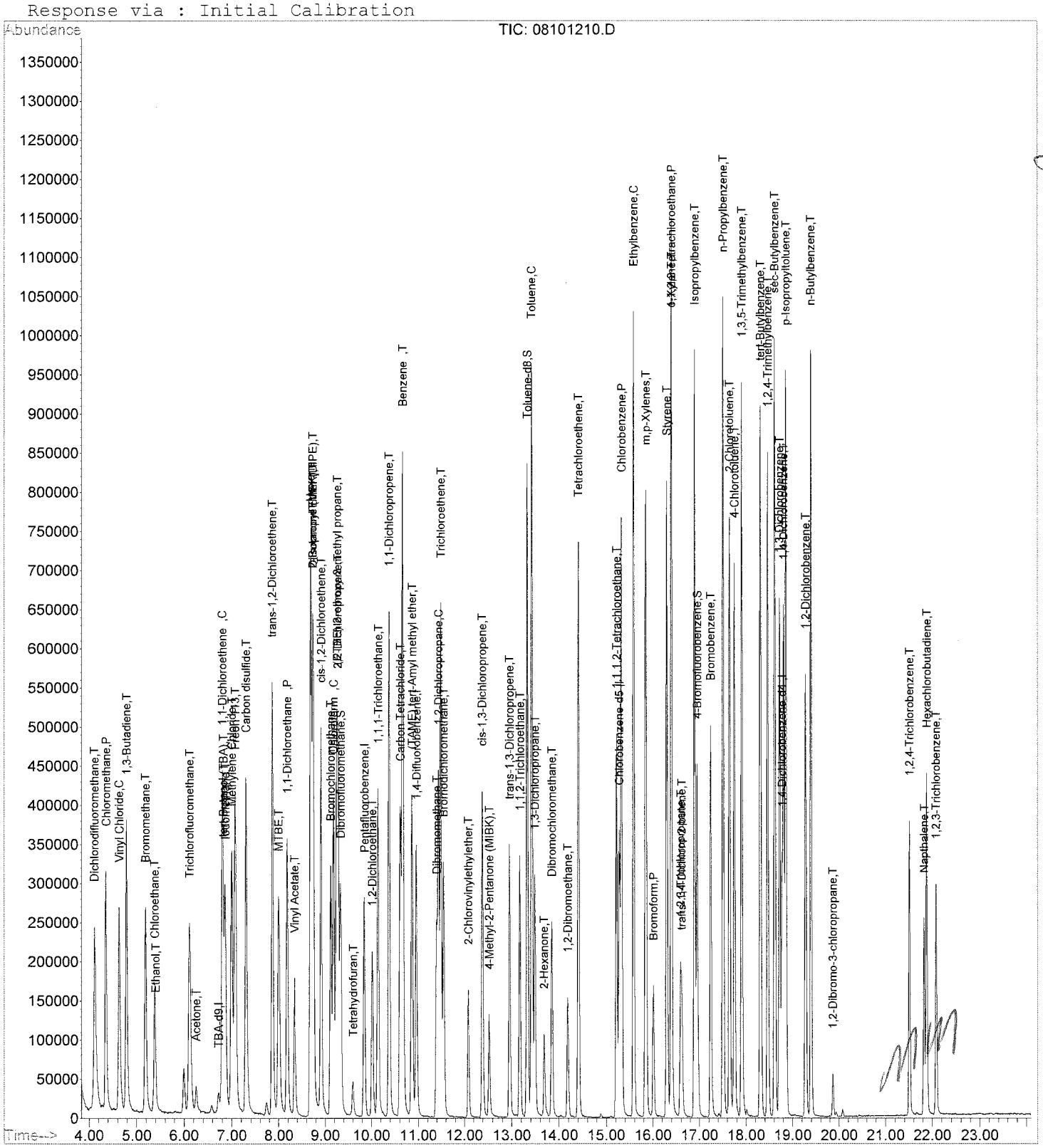
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

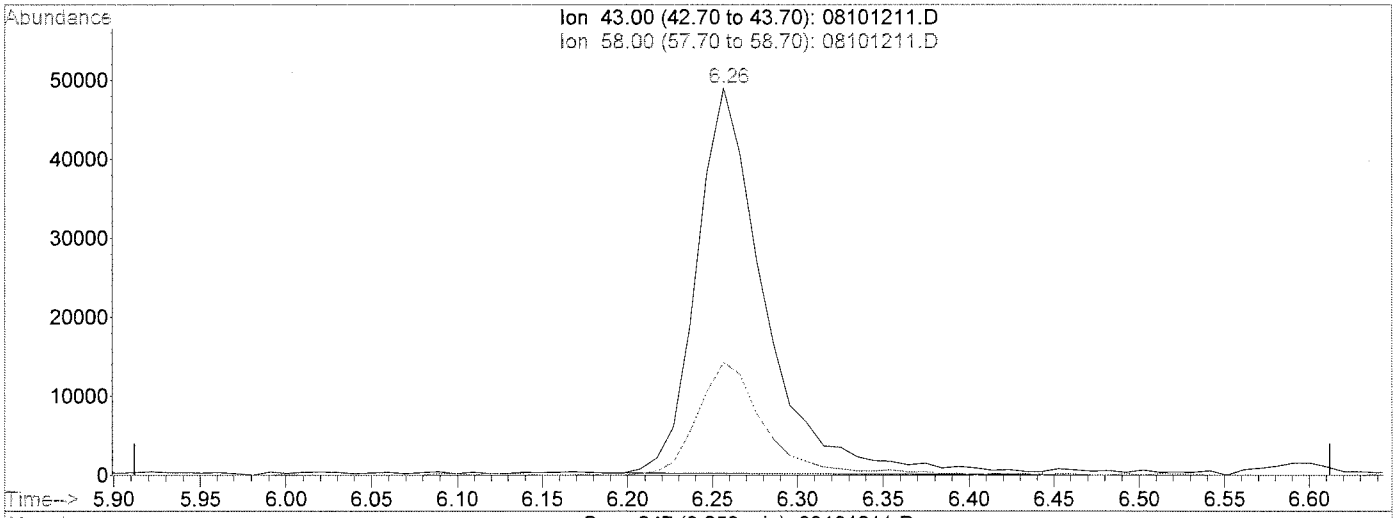
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

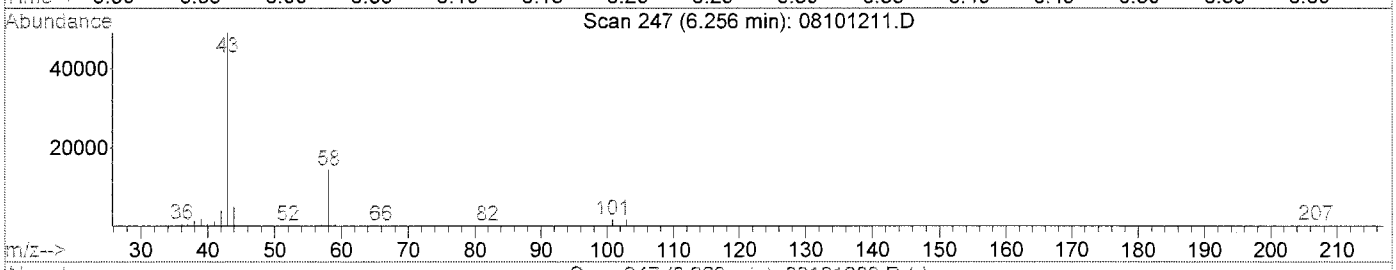


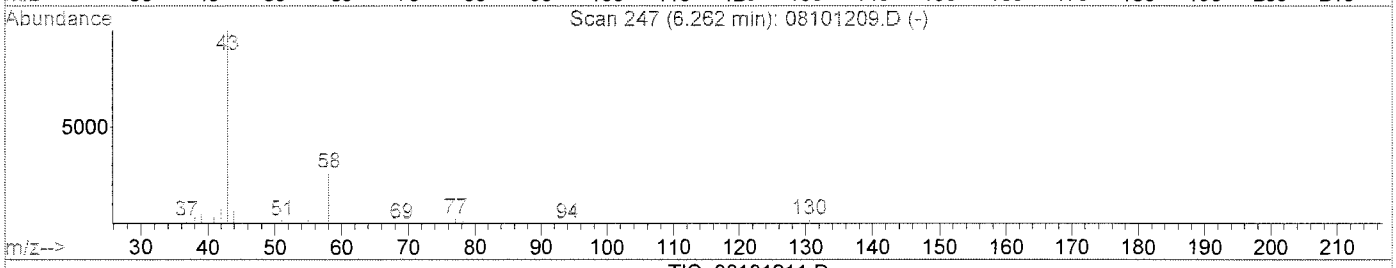
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 119.31ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

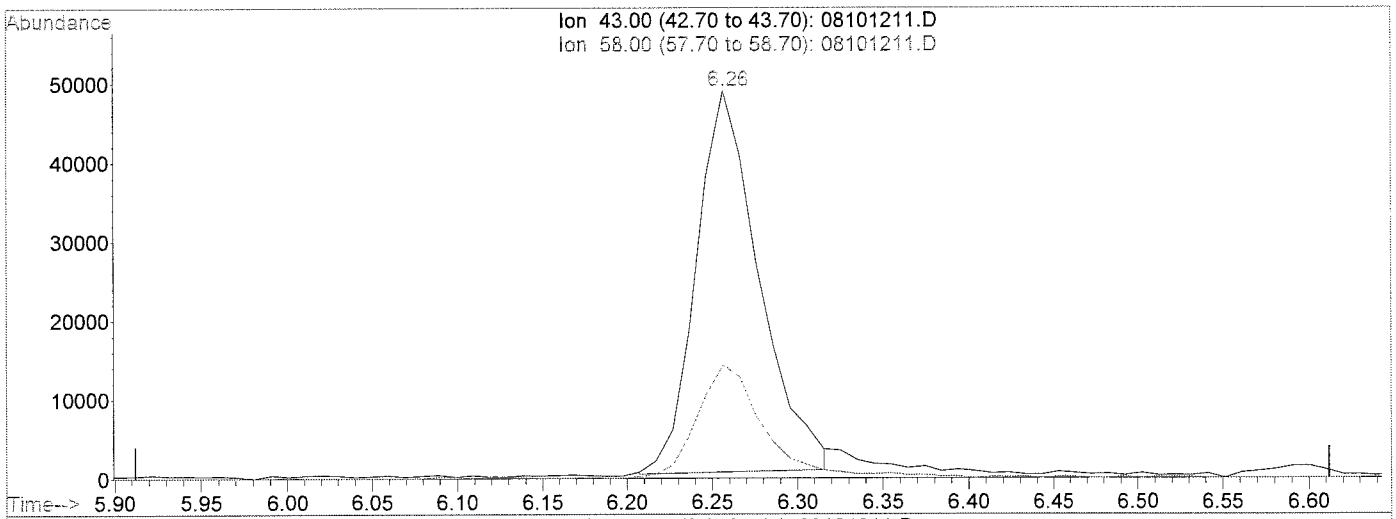
8/13/12

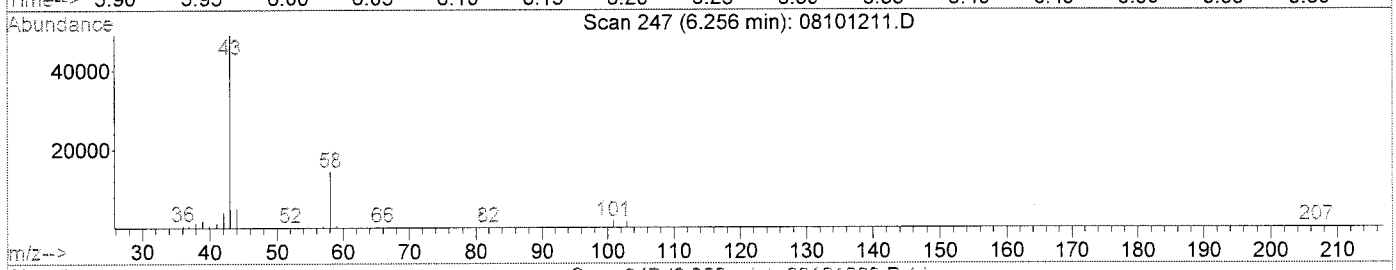
MM 8/13/12

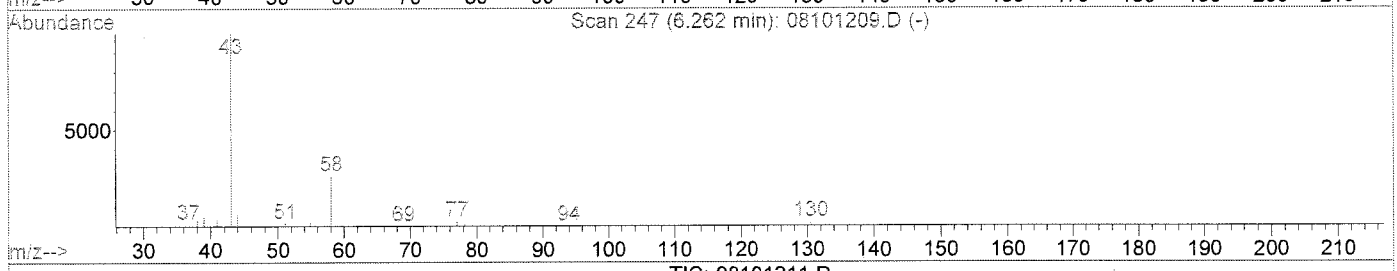
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 107.84ug/L m

response 123668

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.93
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	97.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 388.20%	
48) Toluene-d8	13.33	98	1402084	92.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 369.12%	
62) 4-Bromofluorobenzene	16.96	95	412368	97.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 391.64%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	1066.46 ug/L	82
3) tert-Butanol (TBA)	6.84	59	168336	480.39 ug/L	99
5) Dichlorodifluoromethane	4.11	85	964320	96.48 ug/L	99
6) Chloromethane	4.35	50	890682	91.56 ug/L	100
7) Vinyl Chloride	4.63	62	798541	89.71 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	95.97 ug/L	99
9) Bromomethane	5.18	94	525441	96.65 ug/L	100
10) Chloroethane	5.38	64	441624	100.03 ug/L	99
11) Trichlorofluoromethane	6.11	101	763247	97.00 ug/L	99
12) Acetone	6.26	43	123668m	107.84 ug/L	
13) Iodomethane	6.87	142	901113	97.99 ug/L	98
14) 1,1-Dichloroethene	6.81	96	508761	92.90 ug/L	97
15) Methylene Chloride	7.00	84	470851	96.56 ug/L	99
16) Freon 113	7.07	101	528427	93.16 ug/L	97
17) Carbon disulfide	7.30	76	1756954	98.64 ug/L	97
18) trans-1,2-Dichloroethene	7.86	96	597492	94.07 ug/L	98
19) MTBE	8.01	73	913608	101.74 ug/L	100
20) 1,1-Dichloroethane	8.18	63	943450	95.66 ug/L	99
21) Vinyl Acetate	8.34	43	745936	106.70 ug/L	100
22) n-Hexane	8.69	86	148544	95.28 ug/L	92
23) 2-Butanone (MEK)	8.73	72	42692	108.81 ug/L #	68
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	98.54 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	568187	98.27 ug/L	97
26) Bromochloromethane	9.12	128	236072	102.86 ug/L	91
27) Chloroform	9.18	83	844569	97.89 ug/L	98
28) 2,2-Dichloropropane	9.28	77	597220	91.44 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	100.10 ug/L	99
31) Tetrahydrofuran	9.60	72	36606	102.58 ug/L	84
32) 1,2-Dichloroethane	10.01	62	408116	98.06 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	706415	97.76 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	105.21 ug/L	99
36) 1,1-Dichloropropene	10.38	75	752175	91.42 ug/L	99
37) Carbon Tetrachloride	10.61	117	629787	97.64 ug/L	99
38) Benzene	10.66	78	1918047	97.70 ug/L	99
39) Dibromomethane	11.39	93	240215	103.65 ug/L	98
40) 1,2-Dichloropropane	11.44	63	454008	97.06 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	523897	95.19 ug/L	99
42)	Bromodichloromethane	11.55	83	571821	106.22 ug/L	99
43)	2-Chlorovinylethylether	12.09	63	190358	107.67 ug/L	99
44)	cis-1,3-Dichloropropene	12.38	75	663914	105.77 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	104.38 ug/L	98
46)	trans-1,3-Dichloropropene	12.95	75	509355	106.70 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	286704	105.34 ug/L	98
49)	Toluene	13.43	92	1076337	96.40 ug/L	98
51)	1,3-Dichloropropane	13.49	76	517001	106.83 ug/L	99
52)	2-Hexanone	13.68	43	235539	116.44 ug/L	97
53)	Dibromochloromethane	13.85	129	396223	112.92 ug/L	99
54)	1,2-Dibromoethane	14.18	107	308443	104.89 ug/L	98
55)	Tetrachloroethene	14.41	164	452394	94.22 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	96.65 ug/L	96
57)	Chlorobenzene	15.33	112	1118631	99.99 ug/L	99
58)	Ethylbenzene	15.58	91	1923271	98.42 ug/L	100
59)	m,p-Xylenes	15.85	106	762608	102.28 ug/L	98
60)	Styrene	16.30	104	1032436	103.40 ug/L	99
61)	o-Xylene	16.40	106	651161	94.50 ug/L	98
64)	Bromoform	16.01	173	219950	111.30 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	98.23 ug/L	98
66)	1,2,3-Trichloropropane	16.59	110	78214	105.23 ug/L	98
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	102.10 ug/L	91
68)	Isopropylbenzene	16.90	105	1628971	95.00 ug/L	99
69)	Bromobenzene	17.24	156	425714	101.89 ug/L	97
70)	n-Propylbenzene	17.51	91	2114087	97.12 ug/L	100
71)	2-Chlorotoluene	17.65	91	1126734	95.74 ug/L	100
72)	4-Chlorotoluene	17.75	91	1125554	97.79 ug/L	99
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	92.30 ug/L	100
74)	tert-Butylbenzene	18.31	119	1083175	90.69 ug/L	99
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	92.98 ug/L	100
76)	sec-Butylbenzene	18.61	105	1705621	88.25 ug/L	99
77)	1,3-Dichlorobenzene	18.72	146	699081	91.94 ug/L	98
78)	1,4-Dichlorobenzene	18.82	146	702424	94.23 ug/L	99
79)	p-Isopropyltoluene	18.86	119	1317395	90.97 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	538352	86.95 ug/L	99
81)	n-Butylbenzene	19.40	91	1266655	91.21 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	90.22 ug/L	93
83)	1,2,4-Trichlorobenzene	21.50	180	271631	81.83 ug/L	98
84)	Napthalene	21.83	128	441804	83.19 ug/L	99
85)	Hexachlorobutadiene	21.89	225	166042	82.73 ug/L	96
86)	1,2,3-Trichlorobenzene	22.08	180	218534	91.95 ug/L	96

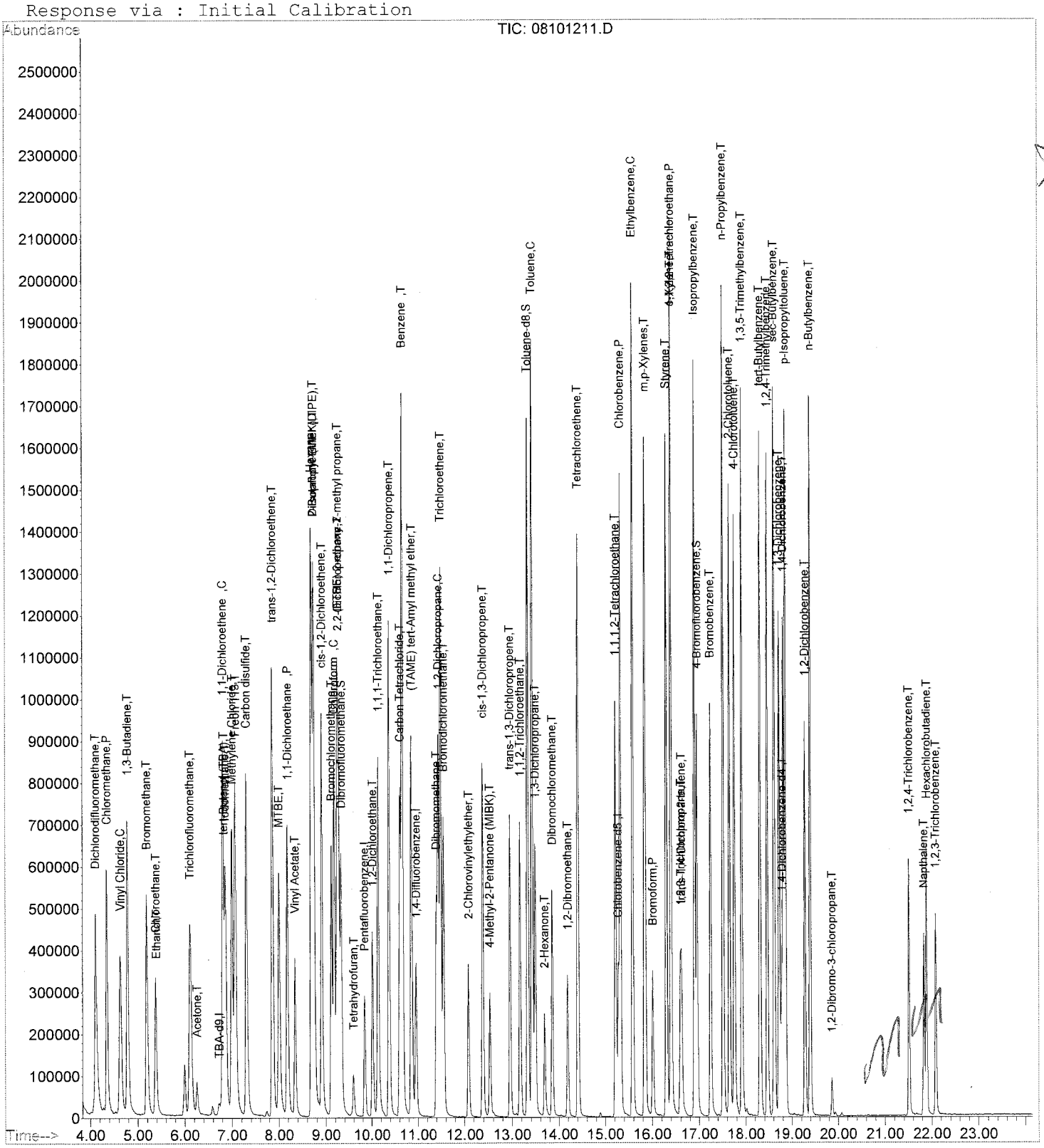
MM

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

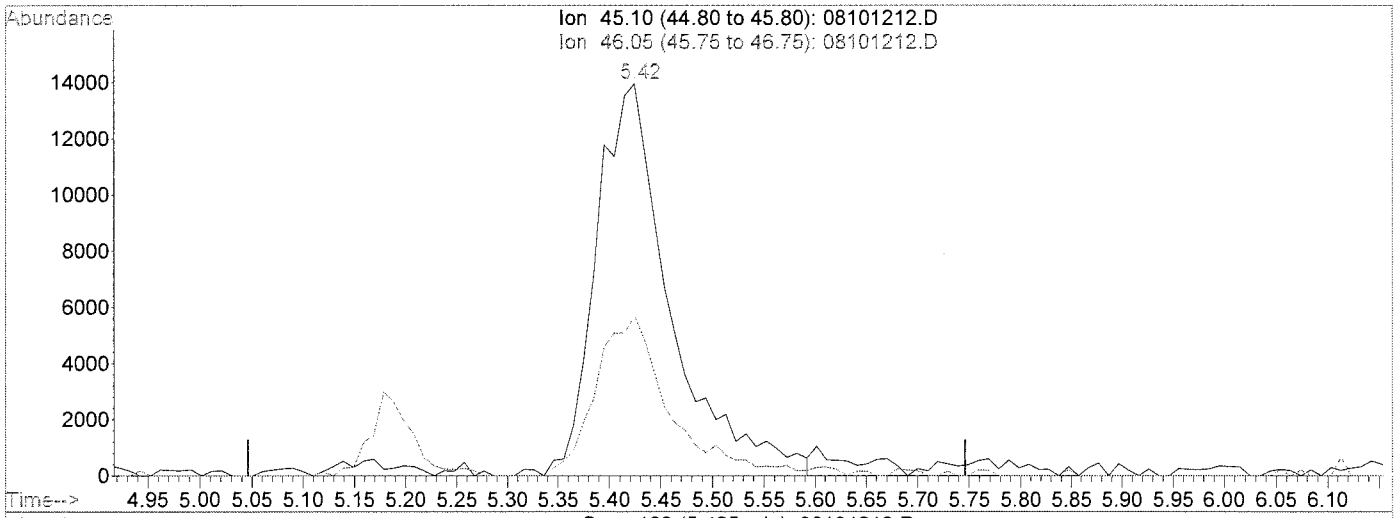
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

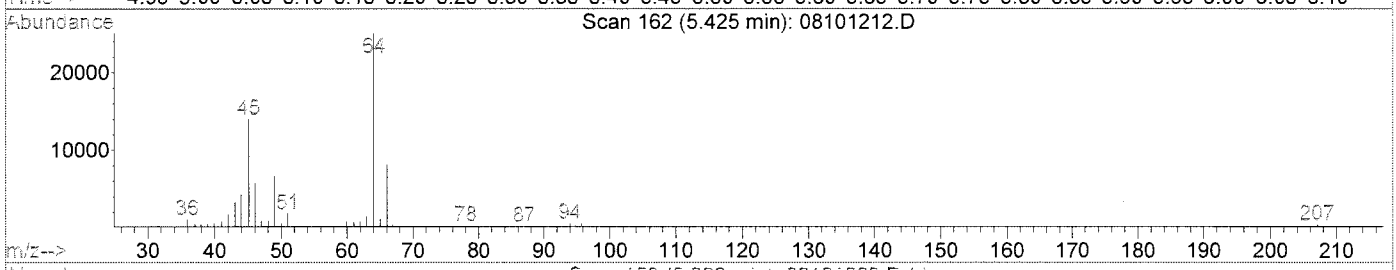


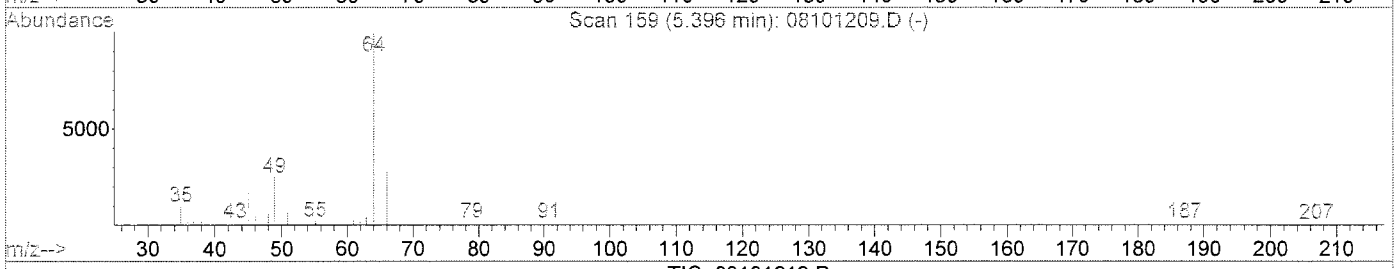
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2703.85ug/L

response 70076

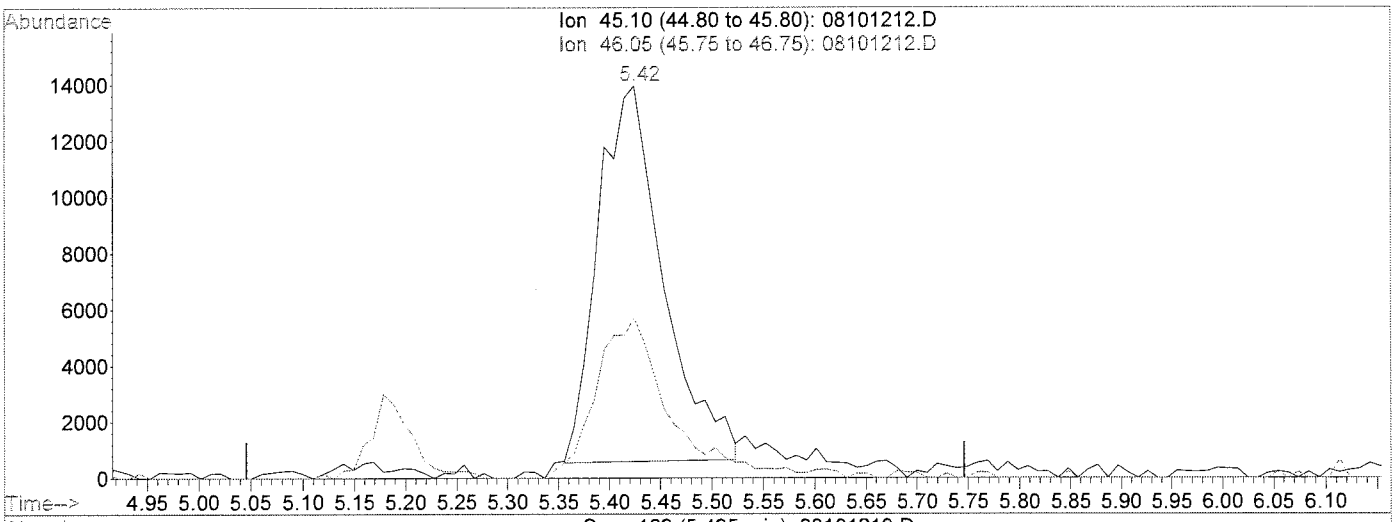
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	40.18
0.00	0.00	0.00
0.00	0.00	0.00

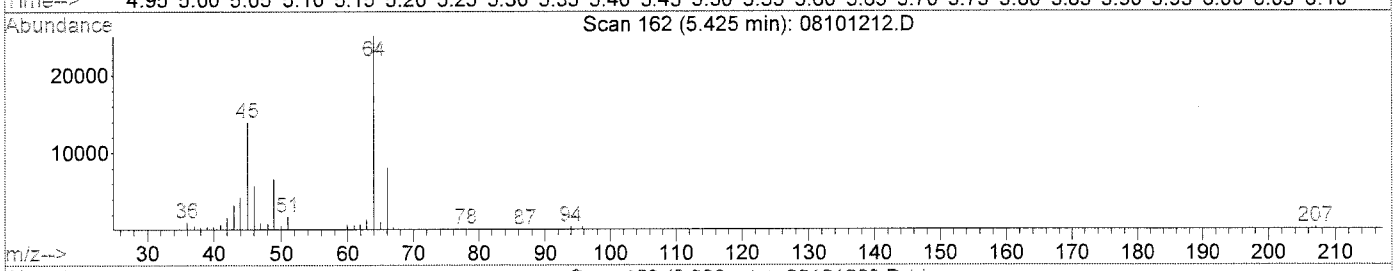
BL
MM 8/13/12

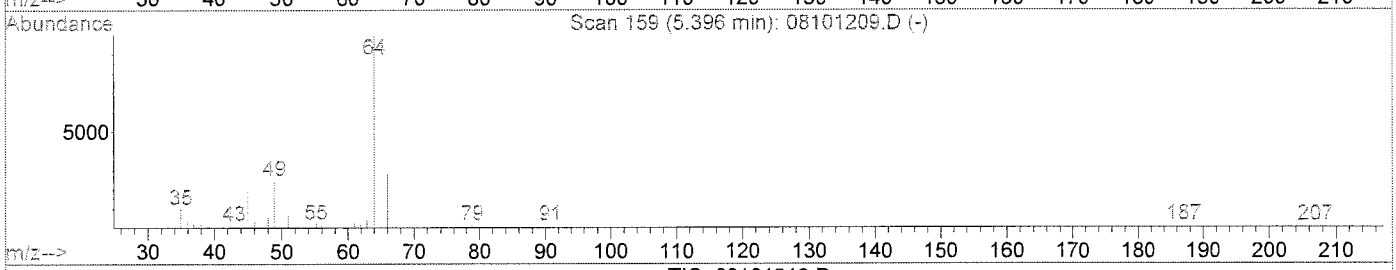
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2281.93ug/L m

response 59141

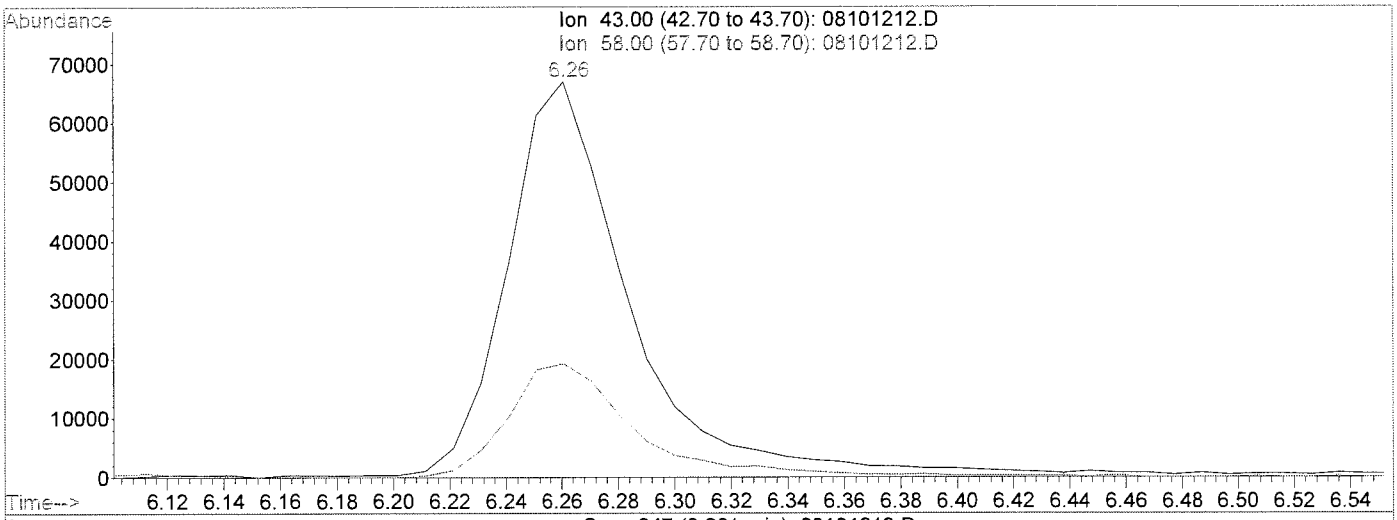
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	47.60
0.00	0.00	0.00
0.00	0.00	0.00

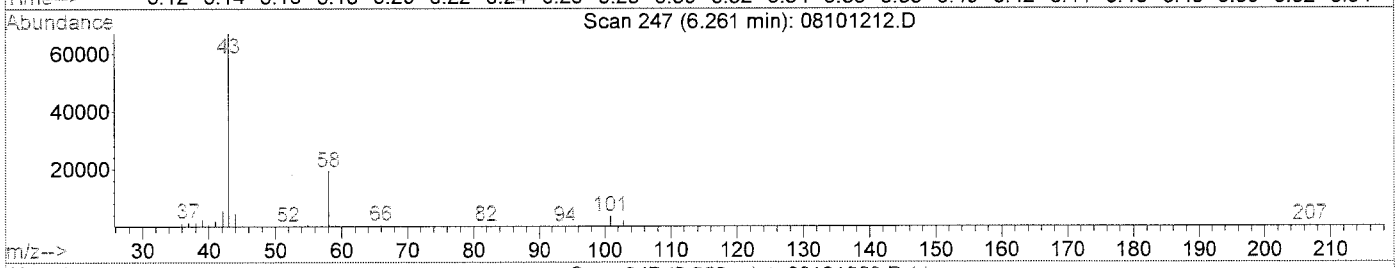
MNM 8/13/12

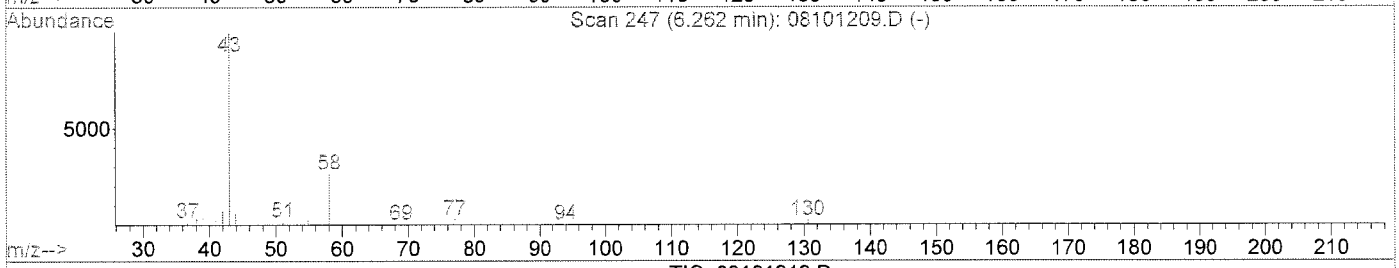
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(12) Acetone (T)

6.26min 184.35ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.87
0.00	0.00	0.00
0.00	0.00	0.00

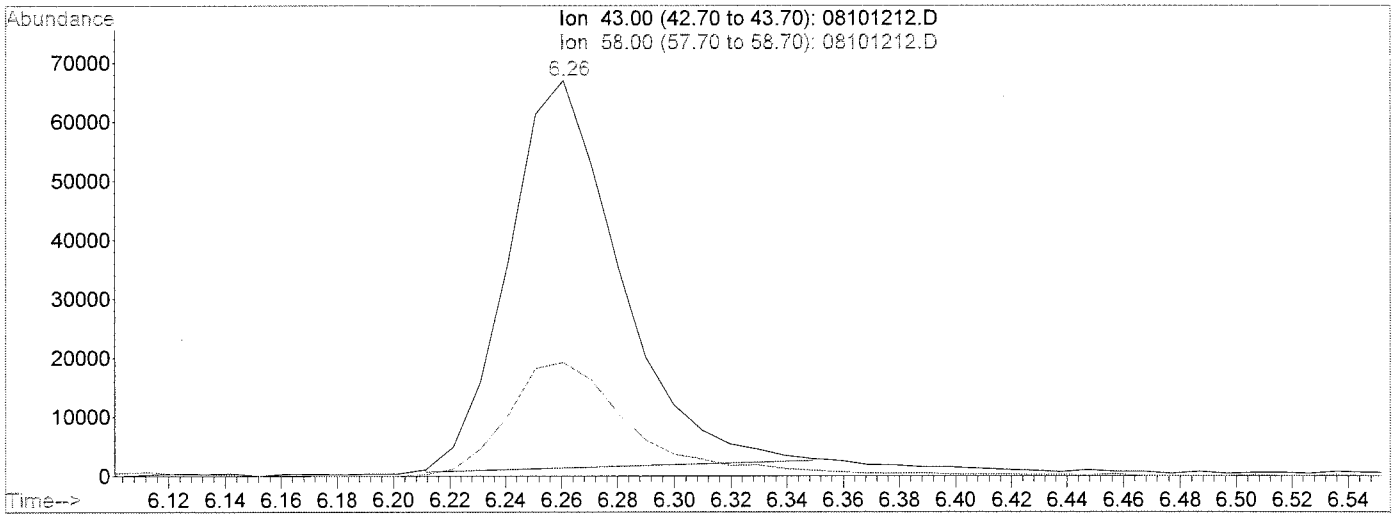
8/13/12

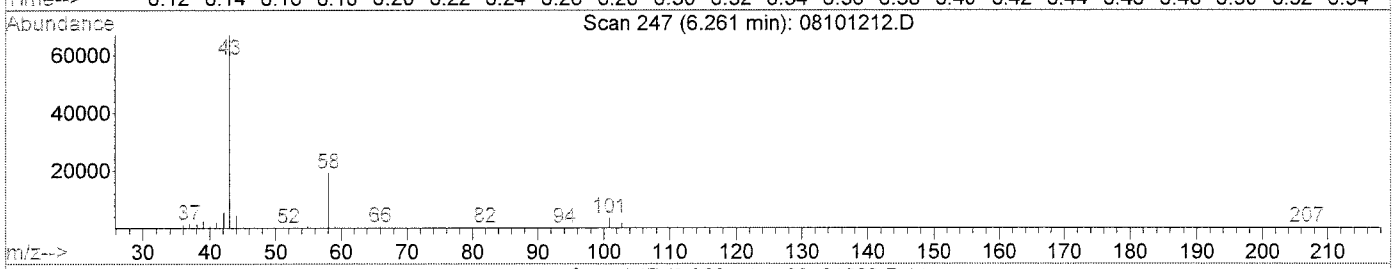
MNM 8/13/12

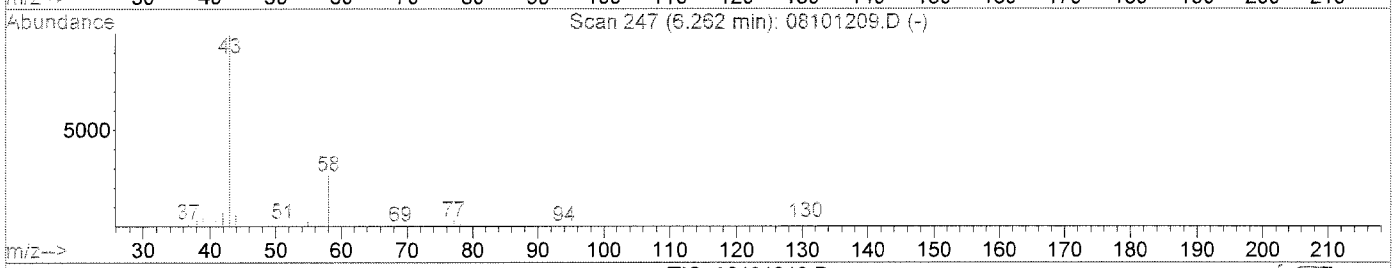
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 163.38ug/L m

response 180852

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.70
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	201.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 804.64%	
48) Toluene-d8	13.33	98	2766585	192.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 771.04%	
62) 4-Bromofluorobenzene	16.96	95	772758	192.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 769.04%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59141m	2281.93 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1073.03 ug/L	98
5) Dichlorodifluoromethane	4.12	85	1798928	186.45 ug/L	99
6) Chloromethane	4.35	50	1637264	174.37 ug/L	99
7) Vinyl Chloride	4.62	62	1314614	152.99 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	185.70 ug/L	100
9) Bromomethane	5.19	94	991158	188.88 ug/L	100
10) Chloroethane	5.38	64	798291	187.32 ug/L	99
11) Trichlorofluoromethane	6.11	101	1442227	189.88 ug/L	99
12) Acetone	6.26	43	180852m	163.38 ug/L	
13) Iodomethane	6.86	142	1691791	190.58 ug/L	98
14) 1,1-Dichloroethene	6.80	96	959183	181.45 ug/L	97
15) Methylene Chloride	7.00	84	866879	184.17 ug/L	98
16) Freon 113	7.07	101	1005834	183.70 ug/L	96
17) Carbon disulfide	7.30	76	3351895	194.95 ug/L	98
18) trans-1,2-Dichloroethene	7.86	96	1151435	187.81 ug/L	98
19) MTBE	8.00	73	1705610	196.77 ug/L	100
20) 1,1-Dichloroethane	8.18	63	1809927	190.12 ug/L	100
21) Vinyl Acetate	8.34	43	1413743	209.50 ug/L	99
22) n-Hexane	8.69	86	285278	189.57 ug/L	88
23) 2-Butanone (MEK)	8.72	72	74546	196.84 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	192.93 ug/L	98
25) cis-1,2-Dichloroethene	8.92	96	1089239	195.17 ug/L	97
26) Bromochloromethane	9.12	128	469231	211.82 ug/L	95
27) Chloroform	9.18	83	1657554	199.03 ug/L	98
28) 2,2-Dichloropropane	9.28	77	1146423	181.84 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	194.76 ug/L	98
31) Tetrahydrofuran	9.60	72	68814	199.78 ug/L	84
32) 1,2-Dichloroethane	10.02	62	794737	197.82 ug/L	99
33) 1,1,1-Trichloroethane	10.15	97	1389872	199.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	197.49 ug/L	98
36) 1,1-Dichloropropene	10.38	75	1491816	191.94 ug/L	99
37) Carbon Tetrachloride	10.61	117	1253531	205.72 ug/L	99
38) Benzene	10.67	78	3652383	196.95 ug/L	99
39) Dibromomethane	11.40	93	460678	210.41 ug/L	99
40) 1,2-Dichloropropane	11.43	63	868011	196.44 ug/L	98

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	197.15 ug/L		98
42)	Bromodichloromethane	11.55	83	1076186	211.61 ug/L		100
43)	2-Chlorovinylethylether	12.09	63	356836	213.66 ug/L		99
44)	cis-1,3-Dichloropropene	12.39	75	1241936	209.44 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	196.96 ug/L		99
46)	trans-1,3-Dichloropropene	12.96	75	974996	216.21 ug/L		99
47)	1,1,2-Trichloroethane	13.18	97	546786	212.67 ug/L		97
49)	Toluene	13.42	92	2055027	194.84 ug/L		97
51)	1,3-Dichloropropane	13.49	76	938228	203.14 ug/L		99
52)	2-Hexanone	13.69	43	386586	200.24 ug/L		97
53)	Dibromochloromethane	13.85	129	760108	226.98 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	209.84 ug/L		99
55)	Tetrachloroethene	14.41	164	884667	193.06 ug/L		99
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	199.87 ug/L		98
57)	Chlorobenzene	15.33	112	2070815	193.94 ug/L		99
58)	Ethylbenzene	15.59	91	3553977	190.55 ug/L		98
59)	m,p-Xylenes	15.85	106	1442112	202.66 ug/L		96
60)	Styrene	16.30	104	1948462	204.46 ug/L		100
61)	o-Xylene	16.40	106	1266882	192.63 ug/L		95
64)	Bromoform	16.02	173	438702	258.97 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	199.73 ug/L		99
66)	1,2,3-Trichloropropane	16.60	110	133888	210.15 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	205.50 ug/L	#	86
68)	Isopropylbenzene	16.90	105	3024067	205.74 ug/L		97
69)	Bromobenzene	17.25	156	802086	223.96 ug/L		97
70)	n-Propylbenzene	17.51	91	3823645	204.92 ug/L		98
71)	2-Chlorotoluene	17.65	91	2041028	202.31 ug/L		100
72)	4-Chlorotoluene	17.76	91	2058362	208.62 ug/L		100
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	199.53 ug/L		99
74)	tert-Butylbenzene	18.31	119	1933954	188.89 ug/L		99
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	196.17 ug/L		99
76)	sec-Butylbenzene	18.62	105	3047825	183.96 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	1267811	194.51 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	1231960	192.79 ug/L		98
79)	p-Isopropyltoluene	18.86	119	2345916	188.97 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	944274	177.93 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	182.58 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	206.53 ug/L		87
83)	1,2,4-Trichlorobenzene	21.51	180	455405	160.04 ug/L		98
84)	Napthalene	21.83	128	697402	153.20 ug/L		99
85)	Hexachlorobutadiene	21.89	225	262810	226.56 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	329008	207.52 ug/L		96

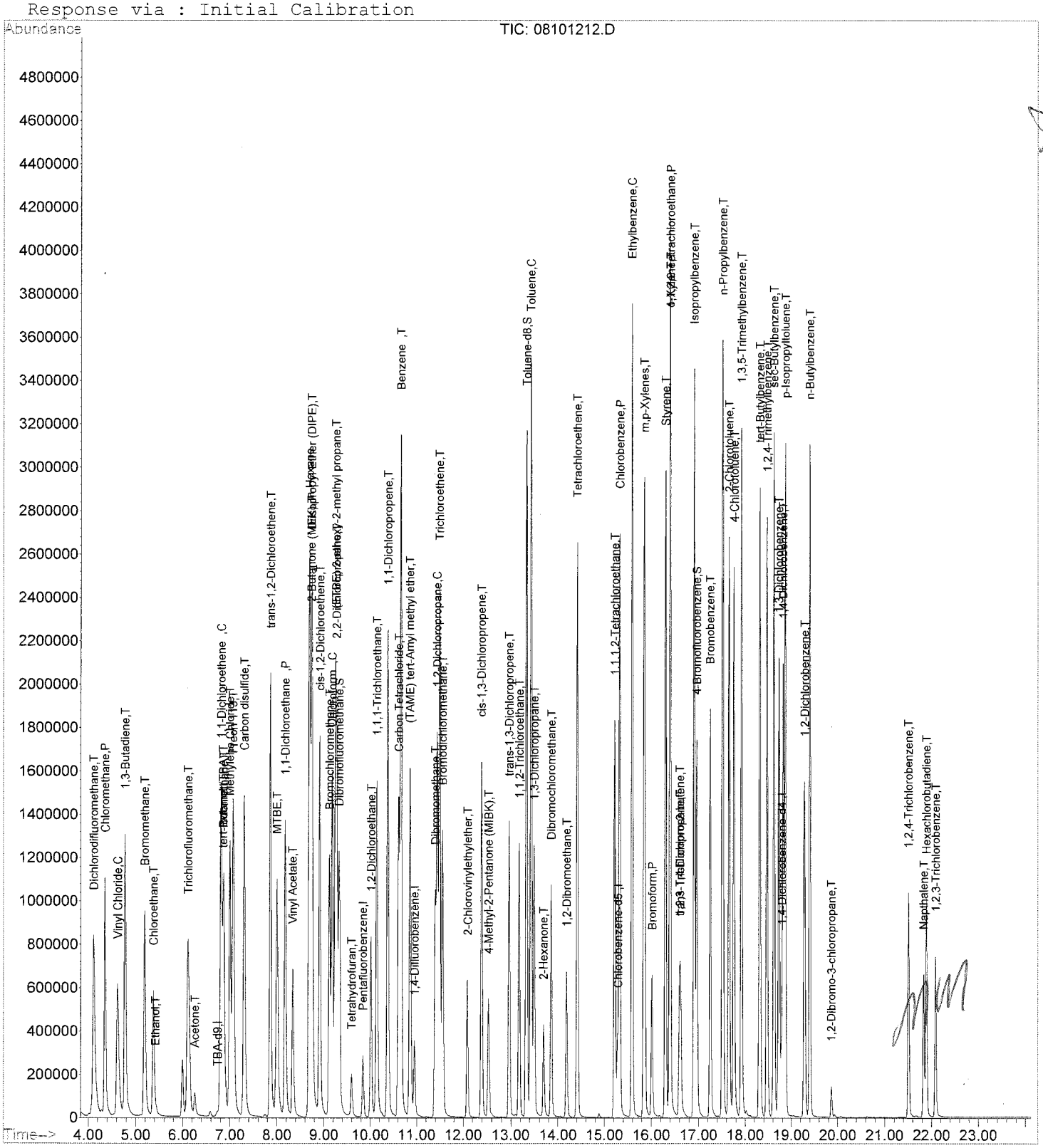
MM

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



624 CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F
2)	Ethanol	300.95	250	120.38	36	150	TRUE
3)	tert-Butanol (TBA)	153.29	125	122.64	70	134	TRUE
5)	Dichlorodifluoromethane	20.10	25	80.41	60	140	TRUE
6)	Chloromethane	24.20	25	96.79	0	204	TRUE
7)	Vinyl Chloride	25.13	25	100.54	4	196	TRUE
8)	1,3-Butadiene	38.03	25	152.10	50	141	FALSE NI
9)	Bromomethane	24.67	25	98.67	14	186	TRUE
10)	Chloroethane	24.83	25	99.30	38	162	TRUE
11)	Trichlorofluoromethane	25.82	25	103.27	48	152	TRUE
12)	Acetone	26.55	25	106.18	12	150	TRUE
13)	Iodomethane	26.45	25	105.80	40	150	TRUE
14)	1,1-Dichloroethene	23.27	25	93.10	50	150	TRUE
15)	Methylene Chloride	23.80	25	95.18	60	140	TRUE
16)	Freon 113	24.41	25	97.63	76	124	TRUE
17)	Carbon disulfide	26.18	25	104.72	64	136	TRUE
18)	trans-1,2-Dichloroethene	23.89	25	95.55	70	130	TRUE
19)	MTBE	23.56	25	94.24	64	140	TRUE
20)	1,1-Dichloroethane	23.84	25	95.36	72	128	TRUE
21)	Vinyl Acetate	28.25	25	112.98	48	150	TRUE
22)	n-Hexane	22.51	25	90.04	56	150	TRUE
23)	2-Butanone (MEK)	25.12	25	100.48	44	150	TRUE
24)	Diisopropyl Ether (DIPE)	23.73	25	94.92	72	132	TRUE
25)	cis-1,2-Dichloroethene	24.69	25	98.76	72	128	TRUE
26)	Bromochloromethane	23.74	25	94.96	72	132	TRUE
27)	Chloroform	23.45	25	93.78	68	132	TRUE
28)	2,2-Dichloropropane	23.74	25	94.98	64	140	TRUE
29)	(ETBE) 2-ethoxy-2-methyl propan	22.20	25	88.79	72	140	TRUE
30)	**Dibromofluoromethane**	**25.41**	25	101.66	80	120	**TRUE**
31)	Tetrahydrofuran	24.22	25	96.88	64	139	TRUE
32)	1,2-Dichloroethane	25.30	25	101.21	68	132	TRUE
33)	1,1,1-Trichloroethane	24.27	25	97.08	75	125	TRUE
34)	(TAME) tert-Amyl methyl ether	24.10	25	96.39	68	140	TRUE
36)	1,1-Dichloropropene	23.93	25	95.73	76	128	TRUE
37)	Carbon Tetrachloride	24.31	25	97.26	73	127	TRUE
38)	Benzene	24.82	25	99.27	64	136	TRUE

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39) Dibromomethane	24.98	25	99.92	72	132	TRUE
40) 1,2-Dichloropropane	23.49	25	93.96	34	166	TRUE
41) Trichloroethene	23.76	25	95.04	66	133	TRUE
42) Bromodichloromethane	25.13	25	100.53	66	134	TRUE
43) 2-Chlorovinylethylether	25.34	25	101.37	0	224	TRUE
44) cis-1,3-Dichloropropene	25.16	25	100.65	24	176	TRUE
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107.40	60	144	TRUE
46) trans-1,3-Dichloropropene	25.25	25	101.01	50	150	TRUE
47) 1,1,2-Trichloroethane	25.95	25	103.82	71	129	TRUE
48) **Toluene-d8**	**24.62**	25	98.47	80	120	**TRUE**
49) Toluene	24.90	25	99.58	74	126	TRUE
51) 1,3-Dichloropropane	25.40	25	101.59	80	124	TRUE
52) 2-Hexanone	26.85	25	107.40	52	150	TRUE
53) Dibromochloromethane	24.64	25	98.56	68	132	TRUE
54) 1,2-Dibromoethane	24.98	25	99.93	80	128	TRUE
55) Tetrachloroethene	22.60	25	90.40	74	126	TRUE
56) 1,1,1,2-Tetrachloroethane	23.23	25	92.90	76	124	TRUE
57) Chlorobenzene	23.54	25	94.14	66	134	TRUE
58) Ethylbenzene	25.07	25	100.26	59	141	TRUE
59) m,p-Xylenes	24.18	25	96.72	80	120	TRUE
60) Styrene	24.75	25	98.98	84	124	TRUE
61) o-Xylene	23.64	25	94.54	72	128	TRUE
62) **4-Bromofluorobenzene**	**26.12**	25	104.48	80	120	**TRUE**
64) Bromoform	25.45	25	101.80	71	129	TRUE
65) 1,1,2,2-Tetrachloroethane	26.77	25	107.09	61	140	TRUE
66) 1,2,3-Trichloropropane	25.76	25	103.05	76	128	TRUE
67) trans-1,4-Dichloro-2-butene	21.70	25	86.80	48	138	TRUE
68) Isopropylbenzene	26.26	25	105.06	76	132	TRUE
69) Bromobenzene	24.25	25	96.98	76	128	TRUE
70) n-Propylbenzene	24.96	25	99.84	76	132	TRUE
71) 2-Chlorotoluene	24.53	25	98.10	80	124	TRUE
72) 4-Chlorotoluene	23.93	25	95.74	80	124	TRUE
73) 1,3,5-Trimethylbenzene	24.02	25	96.08	80	128	TRUE
74) tert-Butylbenzene	24.77	25	99.08	76	132	TRUE
75) 1,2,4-Trimethylbenzene	24.49	25	97.94	80	128	TRUE
76) sec-Butylbenzene	24.19	25	96.77	80	128	TRUE
77) 1,3-Dichlorobenzene	24.21	25	96.86	73	127	TRUE
78) 1,4-Dichlorobenzene	23.21	25	92.83	63	137	TRUE
79) p-Isopropyltoluene	24.67	25	98.70	80	128	TRUE
80) 1,2-Dichlorobenzene	23.88	25	95.53	63	137	TRUE
81) n-Butylbenzene	25.43	25	101.74	76	132	TRUE
82) 1,2-Dibromo-3-chloropropane	30.65	25	122.61	64	128	TRUE
83) 1,2,4-Trichlorobenzene	26.52	25	106.10	76	128	TRUE
84) Napthalene	28.97	25	115.87	68	136	TRUE
85) Hexachlorobutadiene	26.88	25	107.52	76	132	TRUE
86) 1,2,3-Trichlorobenzene	27.16	25	108.62	72	128	TRUE

MM

8260 CCV/ICV CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	300.95	250	120%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	153.29	125	123%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	20.10	25	80%	60%	140%	TRUE	
6)	Chloromethane	24.20	25	97%	48%	144%	TRUE	
7)	Vinyl Chloride	25.13	25	101%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	38.03	25	152%	50%	141%	FALSE	NA
9)	Bromomethane	24.67	25	99%	40%	144%	TRUE	
10)	Chloroethane	24.83	25	99%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.82	25	103%	68%	136%	TRUE	
12)	Acetone	26.55	25	106%	12%	150%	TRUE	
13)	Iodomethane	26.45	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	23.27	25	93%	80%	120%	TRUE	CCC
15)	Methylene Chloride	23.80	25	95%	68%	128%	TRUE	
16)	Freon 113	24.41	25	98%	76%	124%	TRUE	
17)	Carbon disulfide	26.18	25	105%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	23.89	25	96%	76%	120%	TRUE	
19)	MTBE	23.56	25	94%	64%	140%	TRUE	
20)	1,1-Dichloroethane	23.84	25	95%	72%	124%	TRUE	
21)	Vinyl Acetate	28.25	25	113%	48%	150%	TRUE	
22)	n-Hexane	22.51	25	90%	56%	150%	TRUE	
23)	2-Butanone (MEK)	25.12	25	100%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	23.73	25	95%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.69	25	99%	72%	128%	TRUE	
26)	Bromochloromethane	23.74	25	95%	72%	132%	TRUE	
27)	Chloroform	23.45	25	94%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	23.74	25	95%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	22.20	25	89%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.41**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	24.22	25	97%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.30	25	101%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	24.27	25	97%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	24.10	25	96%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.93	25	96%	76%	128%	TRUE	
37)	Carbon Tetrachloride	24.31	25	97%	72%	136%	TRUE	
38)	Benzene	24.82	25	99%	76%	120%	TRUE	

MM 8/13/12

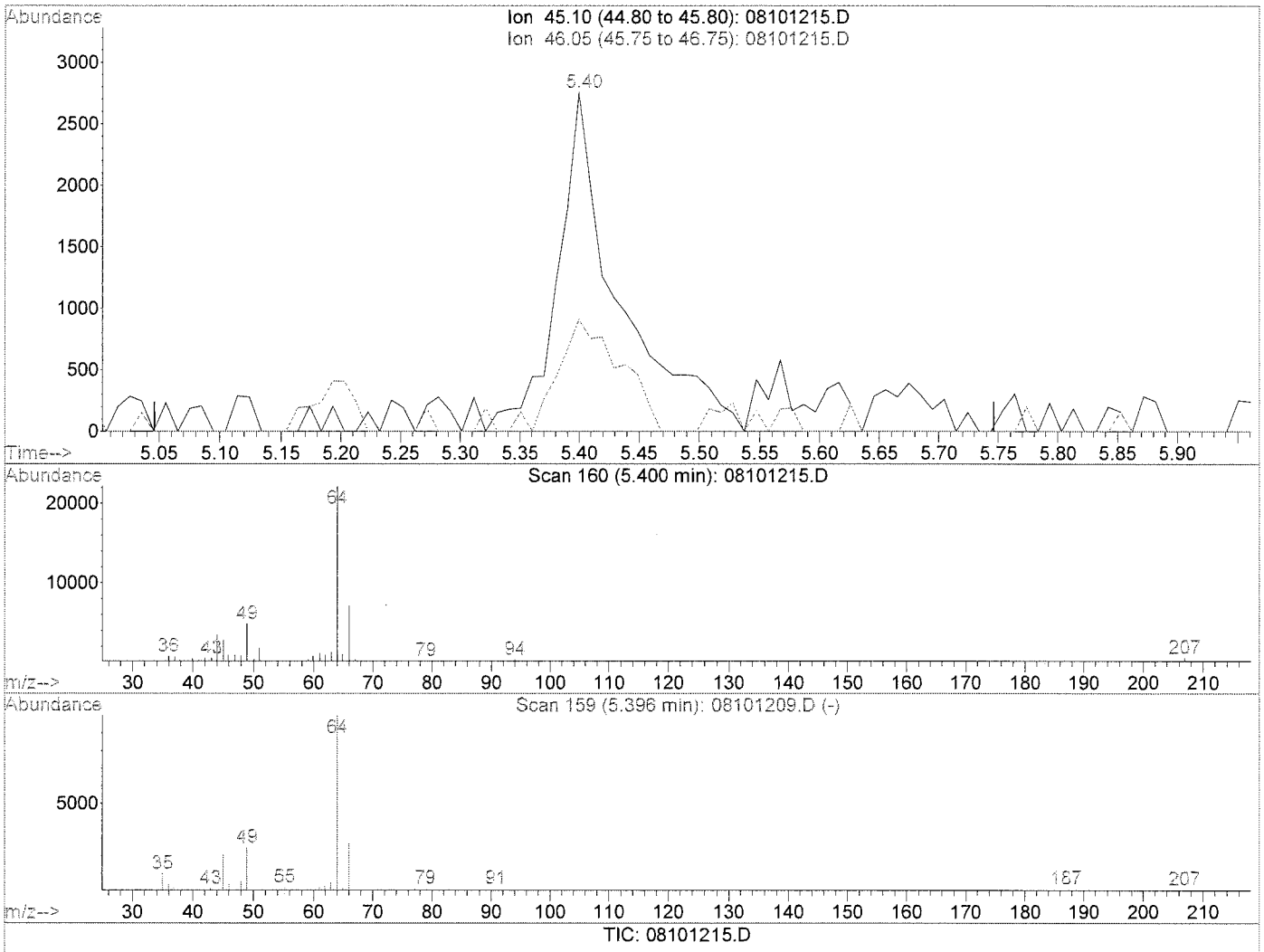
39) Dibromomethane	24.98	25	100%	72%	132%	TRUE	
40) 1,2-Dichloropropane	23.49	25	94%	80%	120%	TRUE	CCC
41) Trichloroethene	23.76	25	95%	80%	120%	TRUE	
42) Bromodichloromethane	25.13	25	101%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	25.34	25	101%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	25.16	25	101%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	25.25	25	101%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.95	25	104%	72%	132%	TRUE	
48) **Toluene-d8**	**24.62**	**25**	98%	80%	120%	**TRUE**	
49) Toluene	24.90	25	100%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	25.40	25	102%	80%	124%	TRUE	
52) 2-Hexanone	26.85	25	107%	52%	150%	TRUE	
53) Dibromochloromethane	24.64	25	99%	80%	128%	TRUE	
54) 1,2-Dibromoethane	24.98	25	100%	80%	128%	TRUE	
55) Tetrachloroethene	22.60	25	90%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	23.23	25	93%	76%	124%	TRUE	
57) Chlorobenzene	23.54	25	94%	80%	120%	TRUE	
58) Ethylbenzene	25.07	25	100%	80%	120%	TRUE	CCC
59) m,p-Xylenes	24.18	25	97%	80%	120%	TRUE	
60) Styrene	24.75	25	99%	84%	124%	TRUE	
61) o-Xylene	23.64	25	95%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**26.12**	**25**	104%	80%	120%	**TRUE**	
64) Bromoform	25.45	25	102%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.77	25	107%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	25.76	25	103%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	21.70	25	87%	48%	138%	TRUE	
68) Isopropylbenzene	26.26	25	105%	76%	132%	TRUE	
69) Bromobenzene	24.25	25	97%	76%	128%	TRUE	
70) n-Propylbenzene	24.96	25	100%	76%	132%	TRUE	
71) 2-Chlorotoluene	24.53	25	98%	80%	124%	TRUE	
72) 4-Chlorotoluene	23.93	25	96%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	24.02	25	96%	80%	128%	TRUE	
74) tert-Butylbenzene	24.77	25	99%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	24.49	25	98%	80%	128%	TRUE	
76) sec-Butylbenzene	24.19	25	97%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	23.21	25	93%	76%	120%	TRUE	
79) p-Isopropyltoluene	24.67	25	99%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	23.88	25	96%	80%	124%	TRUE	
81) n-Butylbenzene	25.43	25	102%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	30.65	25	123%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	26.52	25	106%	76%	128%	TRUE	
84) Napthalene	28.97	25	116%	68%	136%	TRUE	
85) Hexachlorobutadiene	26.88	25	108%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	27.16	25	109%	72%	128%	TRUE	

MM

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



TIC: 08101215.D

(2) Ethanol (T)

5.40min 408.32ug/L

response 9735

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	34.49#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

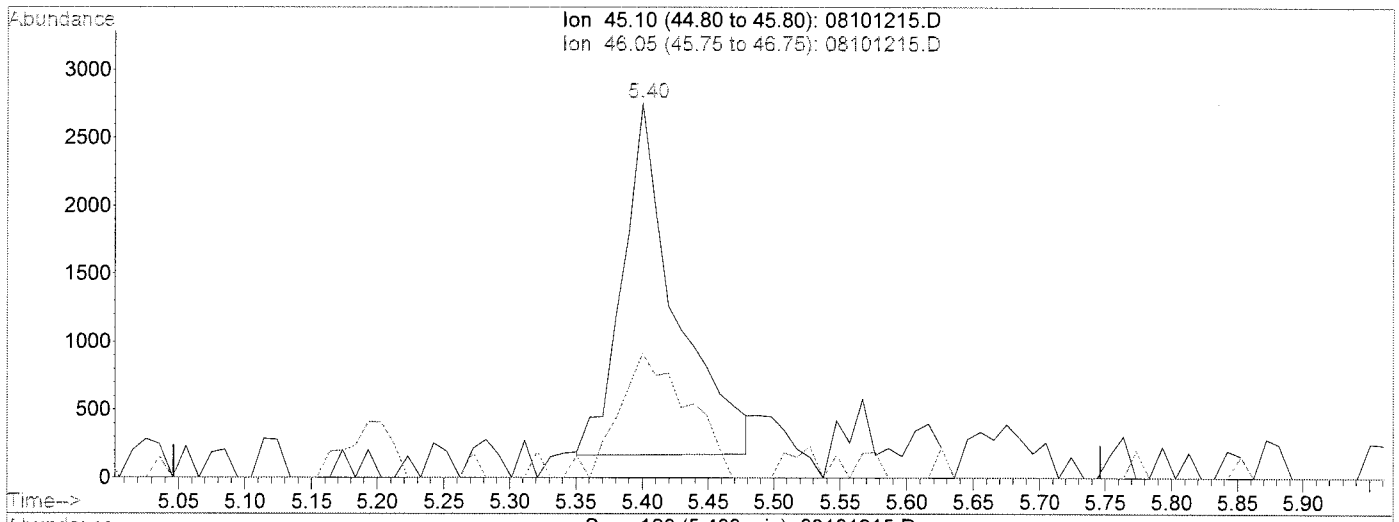
BL MNM 8/13/12

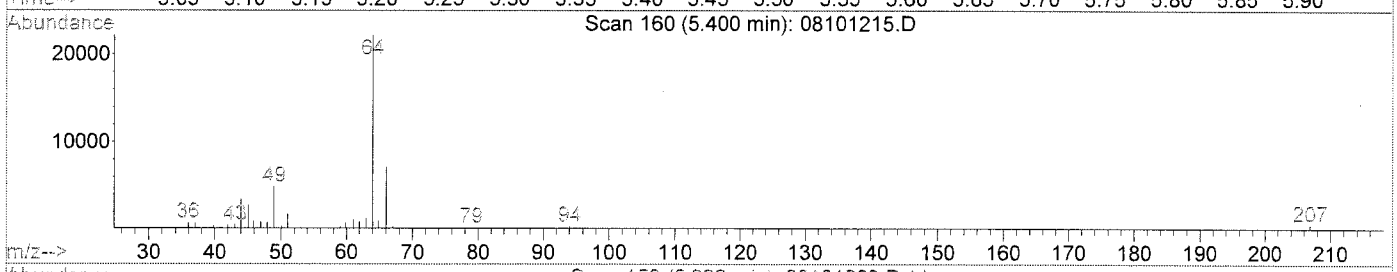
08101215.D 081012.M Mon Aug 13 05:30:34 2012

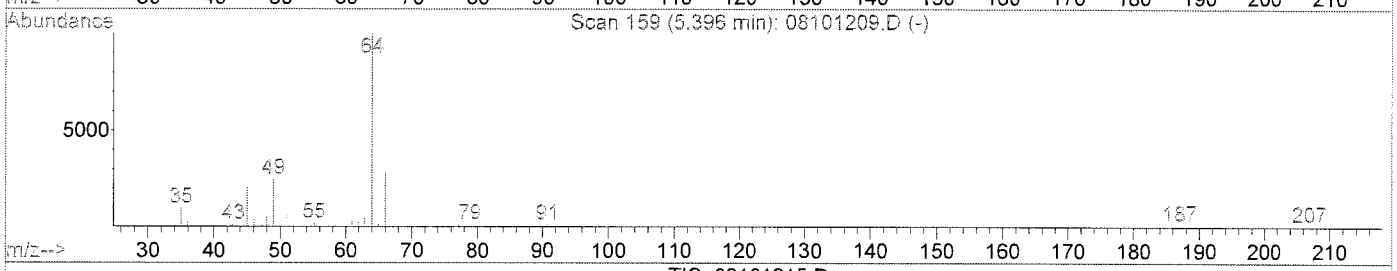
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

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(2) Ethanol (T)

5.40min 300.95ug/L m

response 7175

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	46.80
0.00	0.00	0.00
0.00	0.00	0.00

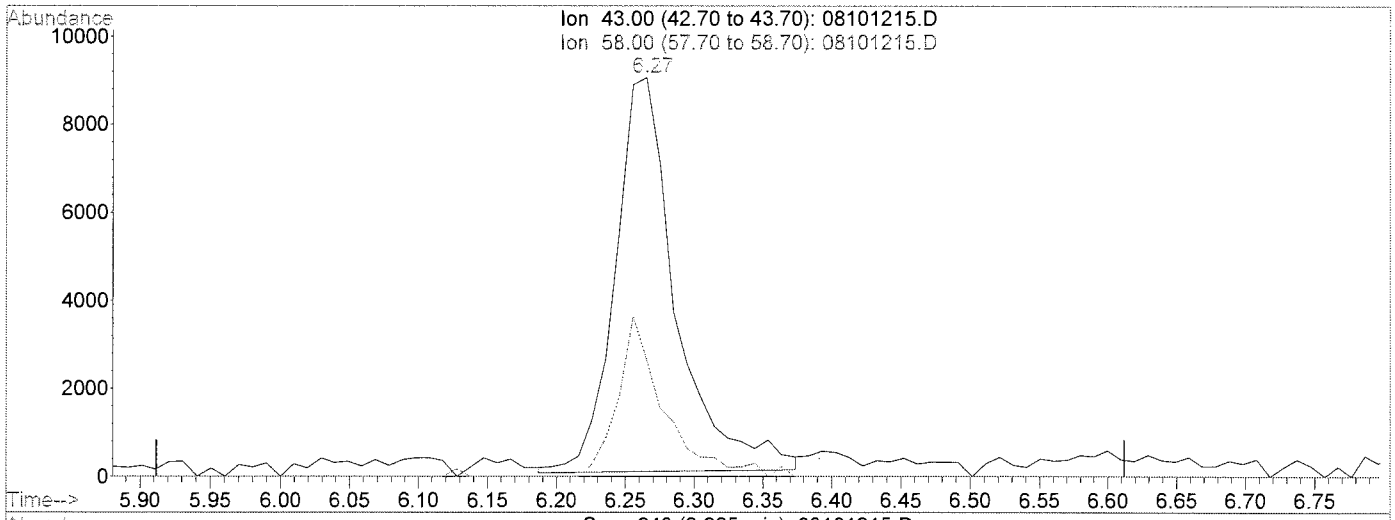
A

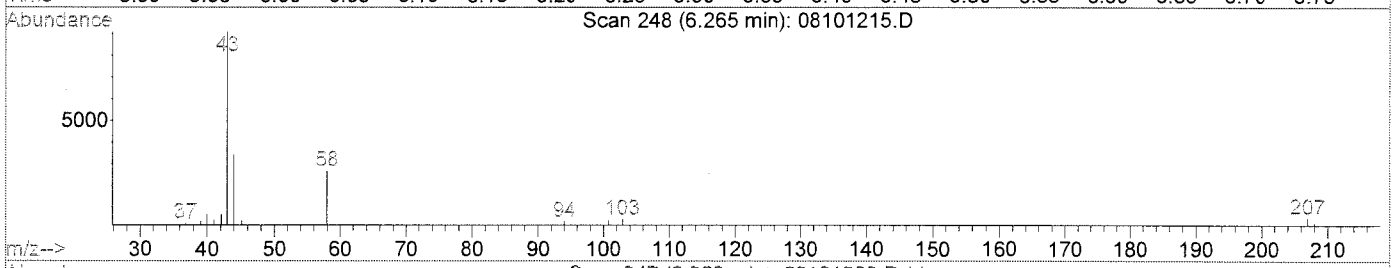
MM 8/13/12

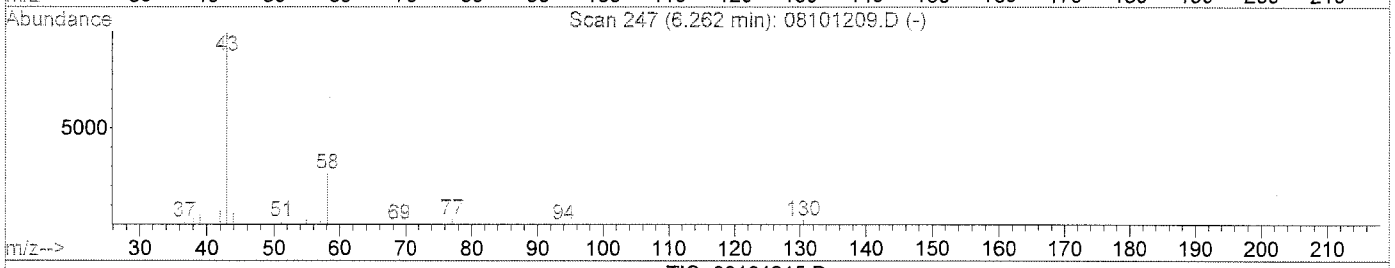
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(12) Acetone (T)

6.27min 30.06ug/L

response 27530

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.08
0.00	0.00	0.00
0.00	0.00	0.00

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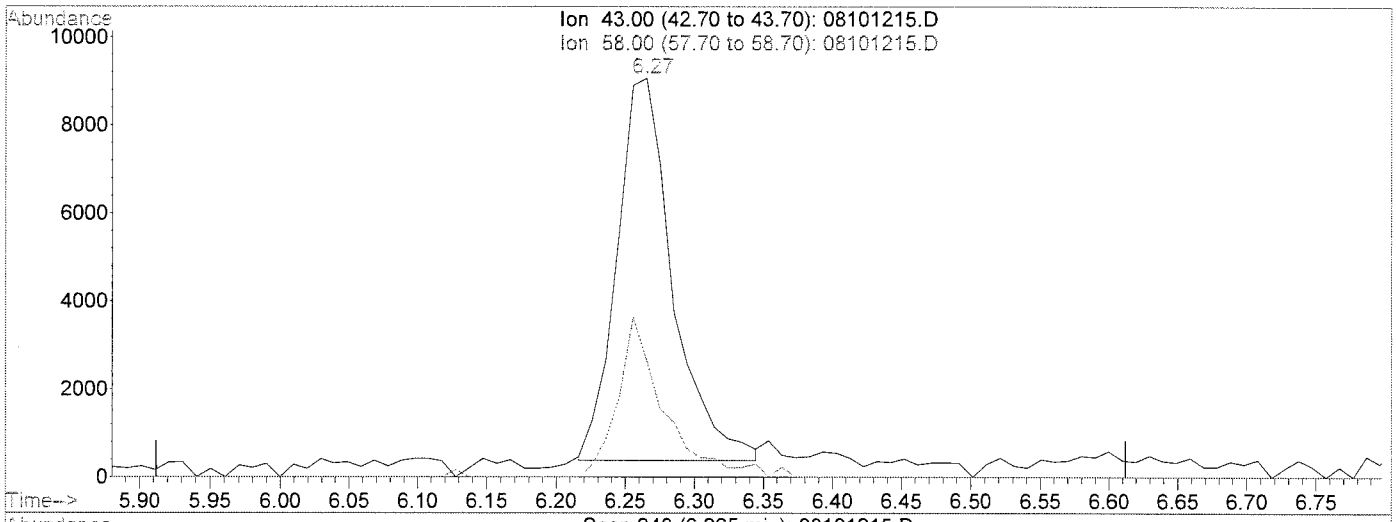
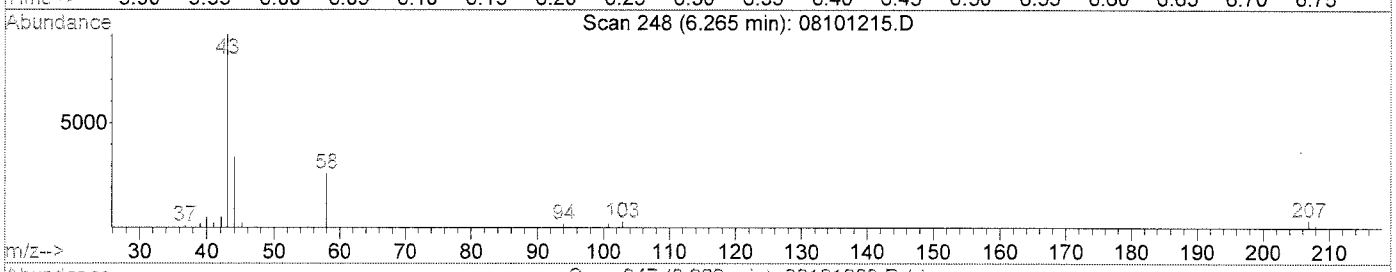
MNM 8/13/12

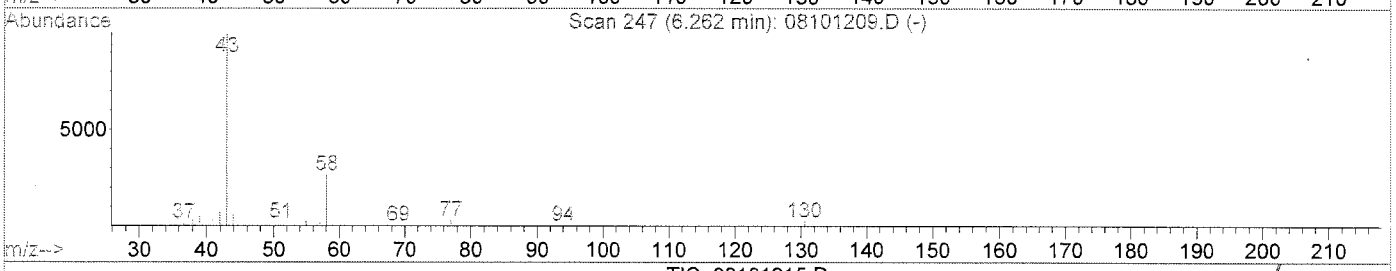
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

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(12) Acetone (T)

6.27min 26.55ug/L m

response 24311

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.19
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

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Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	44222	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	217542	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	306655	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.29	117	216631	25.00 ug/L	0.01
63) 1,4-Dichlorobenzene-d4	18.78	152	92262	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	96692	25.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.64%	
48) Toluene-d8	13.33	98	298127	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	
62) 4-Bromofluorobenzene	16.96	95	87439	26.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.48%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	7175m	300.95 ug/L	
3) tert-Butanol (TBA)	6.84	59	39654	153.29 ug/L	97
5) Dichlorodifluoromethane	4.12	85	160463	20.10 ug/L	98
6) Chloromethane	4.36	50	187967	24.20 ug/L	99
7) Vinyl Chloride	4.64	62	178677	25.13 ug/L	97
8) 1,3-Butadiene	4.79	54	146211	38.03 ug/L	97
9) Bromomethane	5.19	94	107095	24.67 ug/L	99
10) Chloroethane	5.38	64	87529	24.83 ug/L	99
11) Trichlorofluoromethane	6.12	101	162229	25.82 ug/L	98
12) Acetone	6.27	43	24311m	26.55 ug/L	
13) Iodomethane	6.87	142	194254	26.45 ug/L	97
14) 1,1-Dichloroethene	6.82	96	101788	23.27 ug/L	96
15) Methylene Chloride	7.00	84	92664	23.80 ug/L	97
16) Freon 113	7.07	101	110574	24.41 ug/L	98
17) Carbon disulfide	7.31	76	372407	26.18 ug/L	99
18) trans-1,2-Dichloroethene	7.87	96	121167	23.89 ug/L	98
19) MTBE	8.01	73	168955	23.56 ug/L	98
20) 1,1-Dichloroethane	8.18	63	187773	23.84 ug/L	99
21) Vinyl Acetate	8.35	43	157700	28.25 ug/L	99
22) n-Hexane	8.69	86	28024	22.51 ug/L	86
23) 2-Butanone (MEK)	8.73	72	7871	25.12 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.74	45	315525	23.73 ug/L #	64
25) cis-1,2-Dichloroethene	8.92	96	114002	24.69 ug/L	99
26) Bromochloromethane	9.13	128	43509	23.74 ug/L #	85
27) Chloroform	9.18	83	161542	23.45 ug/L #	95
28) 2,2-Dichloropropane	9.29	77	123852	23.74 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	213089	22.20 ug/L	100
31) Tetrahydrofuran	9.61	72	6902	24.22 ug/L	87
32) 1,2-Dichloroethane	10.02	62	84103	25.30 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	140057	24.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	186435	24.10 ug/L	99
36) 1,1-Dichloropropene	10.38	75	156952	23.93 ug/L	96
37) Carbon Tetrachloride	10.61	117	125008	24.31 ug/L	98
38) Benzene	10.67	78	388326	24.82 ug/L	99
39) Dibromomethane	11.40	93	46149	24.98 ug/L	98
40) 1,2-Dichloropropane	11.44	63	87576	23.49 ug/L	95

(#) = qualifier out of range (m) = manual integration

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	104225	23.76 ug/L	96
42) Bromodichloromethane	11.56	83	107842	25.13 ug/L	99
43) 2-Chlorovinylethylether	12.10	63	35712	25.34 ug/L	98
44) cis-1,3-Dichloropropene	12.39	75	125892	25.16 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	60317	26.85 ug/L	100
46) trans-1,3-Dichloropropene	12.96	75	96087	25.25 ug/L	97
47) 1,1,2-Trichloroethane	13.17	97	56305	25.95 ug/L	97
49) Toluene	13.43	92	221555	24.90 ug/L	99
51) 1,3-Dichloropropane	13.49	76	97702	25.40 ug/L	99
52) 2-Hexanone	13.69	43	43171	26.85 ug/L	98
53) Dibromochloromethane	13.86	129	68720	24.64 ug/L	96
54) 1,2-Dibromoethane	14.19	107	58393	24.98 ug/L	99
55) Tetrachloroethene	14.42	164	86251	22.60 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.23	131	71024	23.23 ug/L	93
57) Chlorobenzene	15.32	112	209307	23.54 ug/L	97
58) Ethylbenzene	15.59	91	389353	25.07 ug/L	99
59) m,p-Xylenes	15.85	106	143302	24.18 ug/L	96
60) Styrene	16.30	104	196407	24.75 ug/L	98
61) o-Xylene	16.40	106	129466	23.64 ug/L	96
64) Bromoform	16.02	173	40418	25.45 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.40	83	66349	26.77 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	15388	25.76 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	13110	21.70 ug/L	95
68) Isopropylbenzene	16.90	105	361912	26.26 ug/L	99
69) Bromobenzene	17.25	156	81404	24.25 ug/L	93
70) n-Propylbenzene	17.51	91	436616	24.96 ug/L	98
71) 2-Chlorotoluene	17.65	91	231960	24.53 ug/L	98
72) 4-Chlorotoluene	17.75	91	221379	23.93 ug/L	99
73) 1,3,5-Trimethylbenzene	17.92	105	258127	24.02 ug/L	99
74) tert-Butylbenzene	18.31	119	237760	24.77 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	248923	24.49 ug/L	100
76) sec-Butylbenzene	18.62	105	375741	24.19 ug/L	99
77) 1,3-Dichlorobenzene	18.73	146	147956	24.21 ug/L	97
78) 1,4-Dichlorobenzene	18.82	146	139025	23.21 ug/L	99
79) p-Isopropyltoluene	18.87	119	287165	24.67 ug/L	98
80) 1,2-Dichlorobenzene	19.28	146	118825	23.88 ug/L	98
81) n-Butylbenzene	19.40	91	283846	25.43 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.87	75	7617	30.65 ug/L	96
83) 1,2,4-Trichlorobenzene	21.51	180	70757	26.52 ug/L	99
84) Napthalene	21.84	128	123624	28.97 ug/L	99
85) Hexachlorobutadiene	21.90	225	49225	26.88 ug/L	98
86) 1,2,3-Trichlorobenzene	22.09	180	58513	27.16 ug/L	98

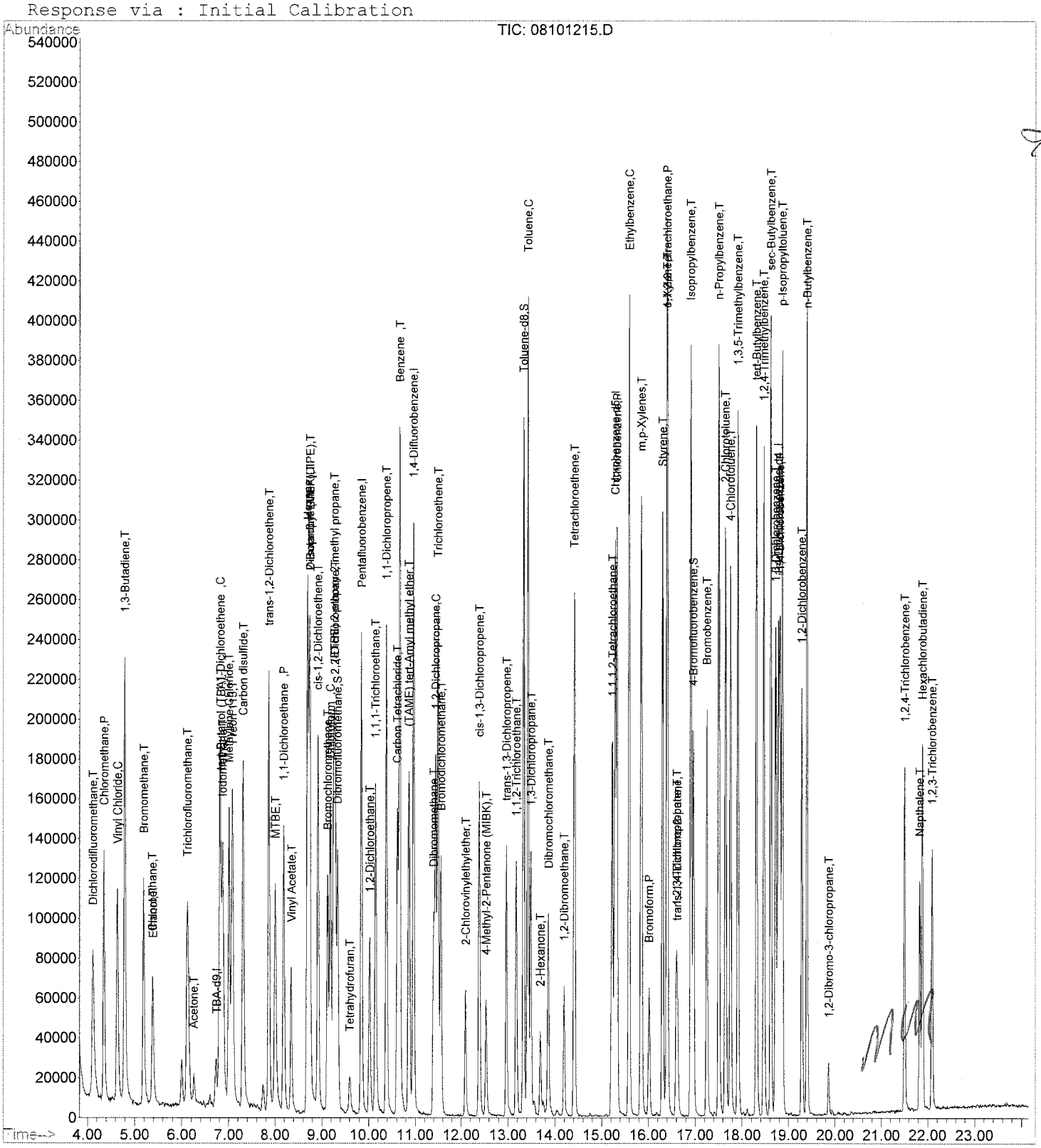
MM

(#) = qualifier out of range (m) = manual integration
08101215.D 081012.M Mon Aug 13 05:30:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Calibration Status Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D
2	1.0	10	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D
3	2.0	20	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D
4	5.0	50	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D
5	10.0	100	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D
6	25.0	250	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D
7	50.0	500	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D
8	100.	1000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D
9	200.	2000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D

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#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Aug 10 12:51 2012	Aug 10 09:42 2012	10 Aug 2012 8:03 am
2	1.0	Aug 10 12:51 2012	Aug 10 09:44 2012	10 Aug 2012 8:36 am
3	2.0	Aug 10 12:51 2012	Aug 10 09:46 2012	10 Aug 2012 9:08 am
4	5.0	Aug 10 12:51 2012	Aug 10 12:39 2012	10 Aug 2012 9:41 am
5	10.0	Aug 10 12:51 2012	Aug 10 12:40 2012	10 Aug 2012 10:14 am
6	25.0	Aug 10 12:51 2012	Aug 10 12:41 2012	10 Aug 2012 10:46 am
7	50.0	Aug 10 12:51 2012	Aug 10 12:43 2012	10 Aug 2012 11:19 am
8	100.	Aug 10 12:51 2012	Aug 10 12:45 2012	10 Aug 2012 11:51 am
9	200.	Aug 10 12:52 2012	Aug 10 12:49 2012	10 Aug 2012 12:24 pm

081012.M Mon Aug 13 06:02:17 2012

MM 8/13/12

Compound List Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
Total Cpnds : 86

PK#			Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I		TBA-d9	65	6.72	1.000	A	0	A	B
2		T	Ethanol	45	5.40	0.803	A	1	A	B
3		T	tert-Butanol (TBA)	59	6.83	1.016	A	1	A	B
4	I		Pentafluorobenzene	168	9.84	1.000	A	1	A	B
5		T	Dichlorodifluoromethane	85	4.11	0.417	A	1	A	B
6	P		Chloromethane	50	4.35	0.442	A	1	A	B
7	C		Vinyl Chloride	62	4.63	0.470	A	1	A	B
8		T	1,3-Butadiene	54	4.79	0.486	A	2	A	B
9		T	Bromomethane	94	5.19	0.527	A	1	A	L
10		T	Chloroethane	64	5.38	0.546	A	2	A	B
11		T	Trichlorofluoromethane	101	6.11	0.621	A	1	A	B
12		T	Acetone	43	6.26	0.636	A	1	A	B
13		T	Iodomethane	142	6.86	0.697	A	2	A	B
14	C		1,1-Dichloroethene	96	6.81	0.692	A	2	A	B
15		T	Methylene Chloride	84	7.00	0.711	A	2	A	B
16		T	Freon 113	101	7.07	0.718	A	2	A	B
17		T	Carbon disulfide	76	7.29	0.741	A	2	A	B
18		T	trans-1,2-Dichloroethene	96	7.87	0.799	A	2	A	B
19		T	MTBE	73	8.00	0.813	A	1	A	B
20	P		1,1-Dichloroethane	63	8.18	0.831	A	2	A	B
21		T	Vinyl Acetate	43	8.34	0.847	A	1	A	B
22			n-Hexane	86	8.69	0.883	A	1	A	B
23		T	2-Butanone (MEK)	72	8.73	0.887	A	2	A	B
24		T	Diisopropyl Ether (DIPE)	45	8.74	0.888	A	3	A	B
25		T	cis-1,2-Dichloroethene	96	8.91	0.905	A	2	A	B
26		T	Bromochloromethane	128	9.11	0.926	A	2	A	B
27	C		Chloroform	83	9.17	0.932	A	2	A	B
28		T	2,2-Dichloropropane	77	9.27	0.942	A	2	A	B
29		T	(ETBE) 2-ethoxy-2-methyl propa	59	9.24	0.939	A	2	A	B
30		S	Dibromofluoromethane	113	9.33	0.948	A	0	A	B
31		T	Tetrahydrofuran	72	9.60	0.975	A	2	A	B
32		T	1,2-Dichloroethane	62	10.01	1.017	A	2	A	B
33		T	1,1,1-Trichloroethane	97	10.14	1.030	A	2	A	B
34		T	(TAME) tert-Amyl methyl ether	73	10.86	1.103	A	3	A	B
35	I		1,4-Difluorobenzene	114	10.95	1.000	A	0	A	B
36		T	1,1-Dichloropropene	75	10.37	0.947	A	2	A	B
37		T	Carbon Tetrachloride	117	10.61	0.969	A	2	A	B
38		T	Benzene	78	10.66	0.973	A	1	A	B
39		T	Dibromomethane	93	11.39	1.040	A	2	A	B
40	C		1,2-Dichloropropane	63	11.44	1.044	A	2	A	B
41		T	Trichloroethene	95	11.48	1.048	A	3	A	B
42		T	Bromodichloromethane	83	11.55	1.055	A	2	A	B
43		T	2-Chlorovinylethylether	63	12.08	1.103	A	2	A	B
44		T	cis-1,3-Dichloropropene	75	12.39	1.131	A	2	A	B
45		T	4-Methyl-2-Pentanone (MIBK)	43	12.53	1.144	A	1	A	B
46		T	trans-1,3-Dichloropropene	75	12.95	1.182	A	2	A	B
47		T	1,1,2-Trichloroethane	97	13.17	1.202	A	2	A	B
48		S	Toluene-d8	98	13.32	1.216	A	0	A	B
49	C		Toluene	92	13.42	1.225	A	2	A	B
50	I		Chlorobenzene-d5	117	15.27	1.000	A	0	A	B
51		T	1,3-Dichloropropane	76	13.49	0.883	A	1	A	B
52		T	2-Hexanone	43	13.69	0.896	A	2	A	B
53		T	Dibromochloromethane	129	13.86	0.907	A	1	A	B
54		T	1,2-Dibromoethane	107	14.18	0.929	A	1	A	B
55		T	Tetrachloroethene	164	14.41	0.943	A	2	A	B
56		T	1,1,1,2-Tetrachloroethane	131	15.21	0.996	A	2	A	B
57	P		Chlorobenzene	112	15.32	1.003	A	2	A	B
58	C		Ethylbenzene	91	15.59	1.021	A	1	A	B
59		T	m,p-Xylenes	106	15.84	1.037	A	2	A	B

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MM 8/13/15

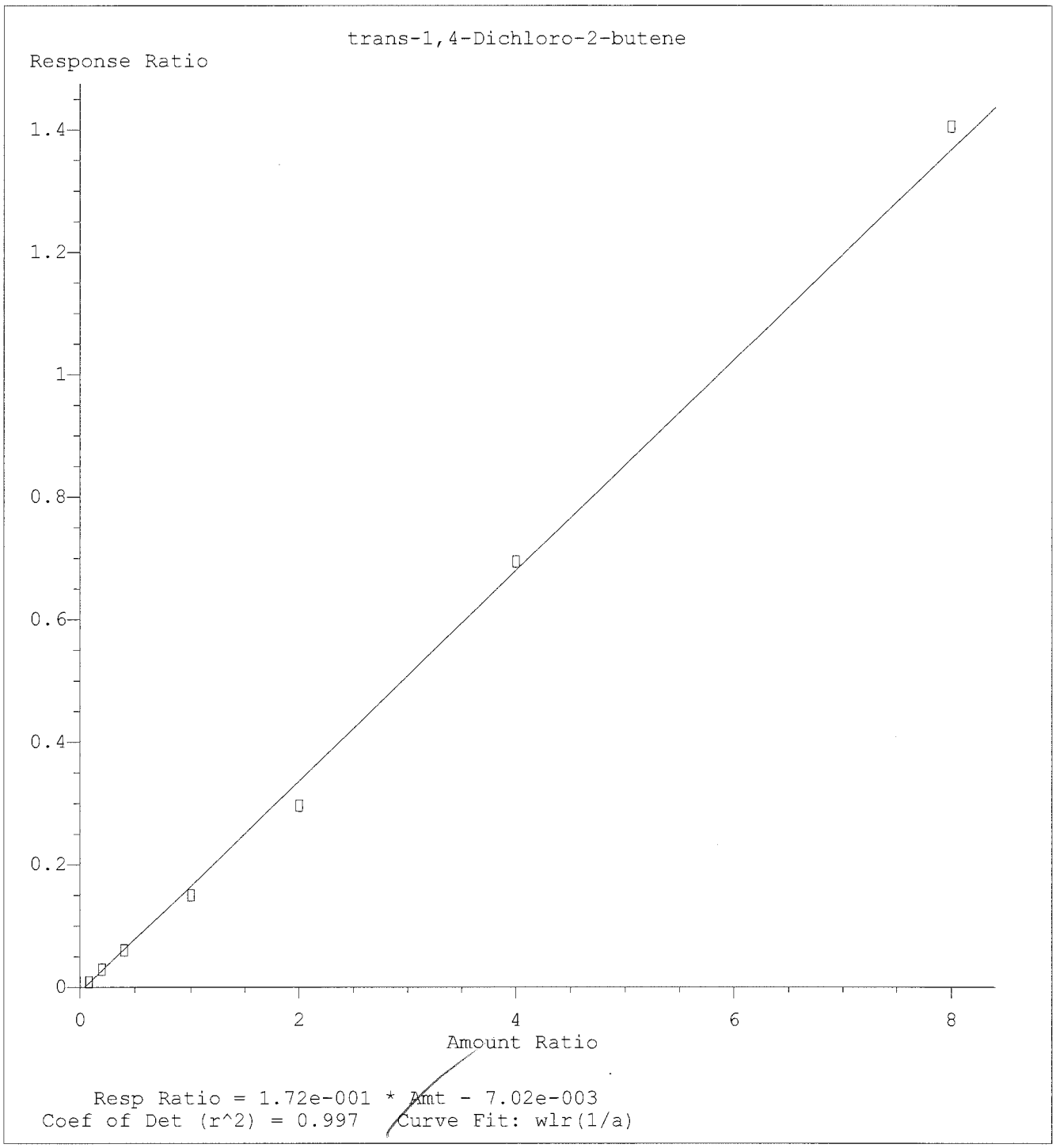
60	T	Styrene	104	16.29	1.067	A	3	A	B
61	T	o-Xylene	106	16.39	1.073	A	2	A	B
62	S	4-Bromofluorobenzene	95	16.95	1.110	A	2	A	B
63	I	1,4-Dichlorobenzene-d4	152	18.77	1.000	A	2	A	B
64	P	Bromoform	173	16.01	0.853	A	1	A	B
65	P	1,1,2,2-Tetrachloroethane	83	16.39	0.873	A	2	A	B
66	T	1,2,3-Trichloropropane	110	16.59	0.884	A	2	A	R
67	T	trans-1,4-Dichloro-2-butene	53	16.62	0.885	L	2	A	B
68	T	Isopropylbenzene	105	16.89	0.900	A	1	A	B
69	T	Bromobenzene	156	17.25	0.919	A	2	A	B
70	T	n-Propylbenzene	91	17.50	0.932	A	1	A	B
71	T	2-Chlorotoluene	91	17.64	0.940	A	1	A	R
72	T	4-Chlorotoluene	91	17.75	0.946	A	1	A	R
73	T	1,3,5-Trimethylbenzene	105	17.91	0.954	A	1	A	B
74	T	tert-Butylbenzene	119	18.30	0.975	A	2	A	B
75	T	1,2,4-Trimethylbenzene	105	18.46	0.983	A	1	A	B
76	T	sec-Butylbenzene	105	18.61	0.991	A	1	A	B
77	T	1,3-Dichlorobenzene	146	18.71	0.997	A	2	A	R
78	T	1,4-Dichlorobenzene	146	18.81	1.002	A	2	A	R
79	T	p-Isopropyltoluene	119	18.85	1.004	A	2	A	B
80	T	1,2-Dichlorobenzene	146	19.28	1.027	A	2	A	B
81	T	n-Butylbenzene	91	19.39	1.033	A	2	A	B
82	T	1,2-Dibromo-3-chloropropane	75	19.86	1.058	Q	2	A	B
83	T	1,2,4-Trichlorobenzene	180	21.51	1.146	A	2	A	B
84	T	Napthalene	128	21.82	1.162	A	1	A	B
85	T	Hexachlorobutadiene	225	21.88	1.166	Q	2	A	B
86	T	1,2,3-Trichlorobenzene	180	22.09	1.177	Q	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

081012.M Mon Aug 13 06:02:11 2012

7

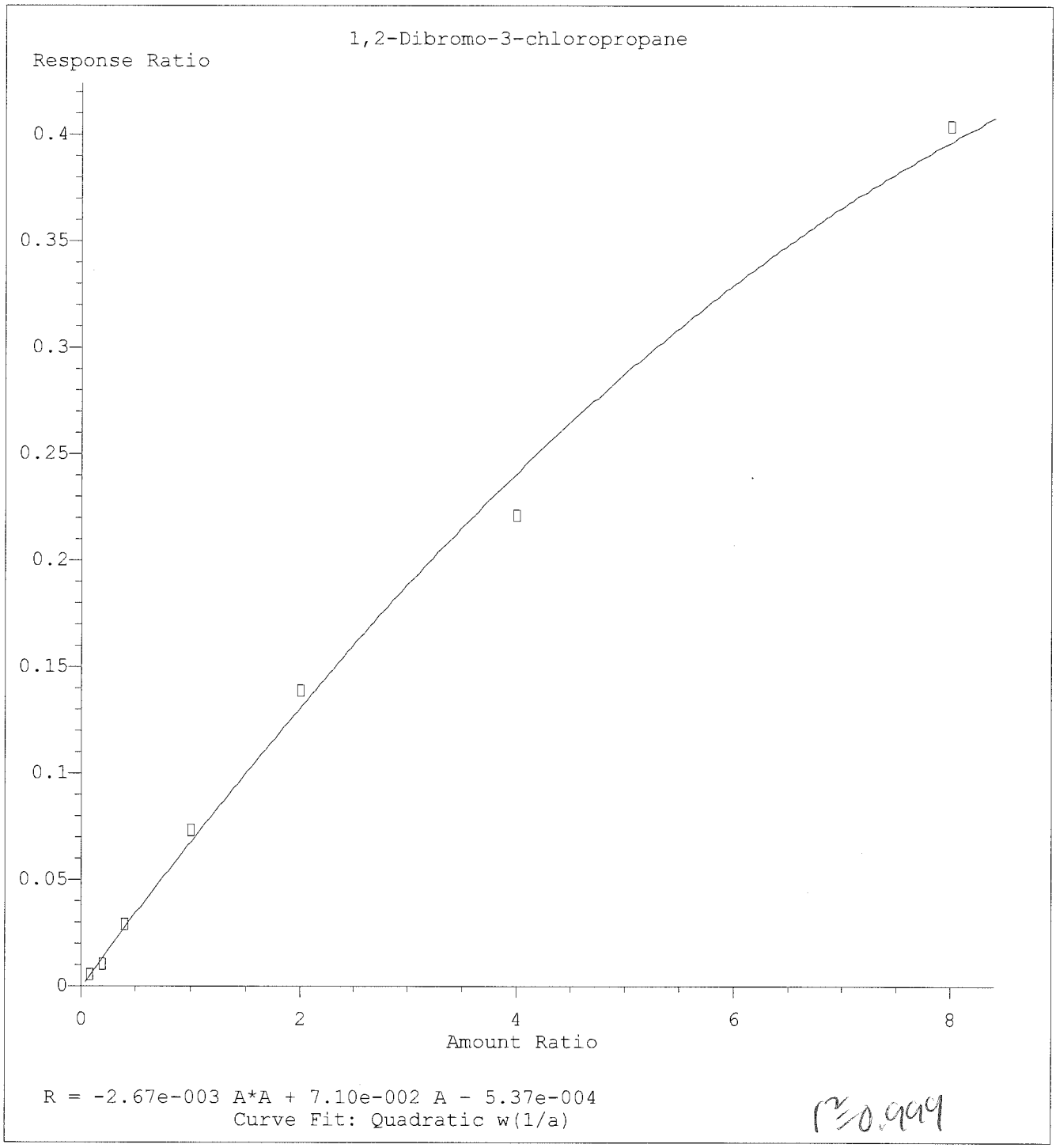
MM



Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM

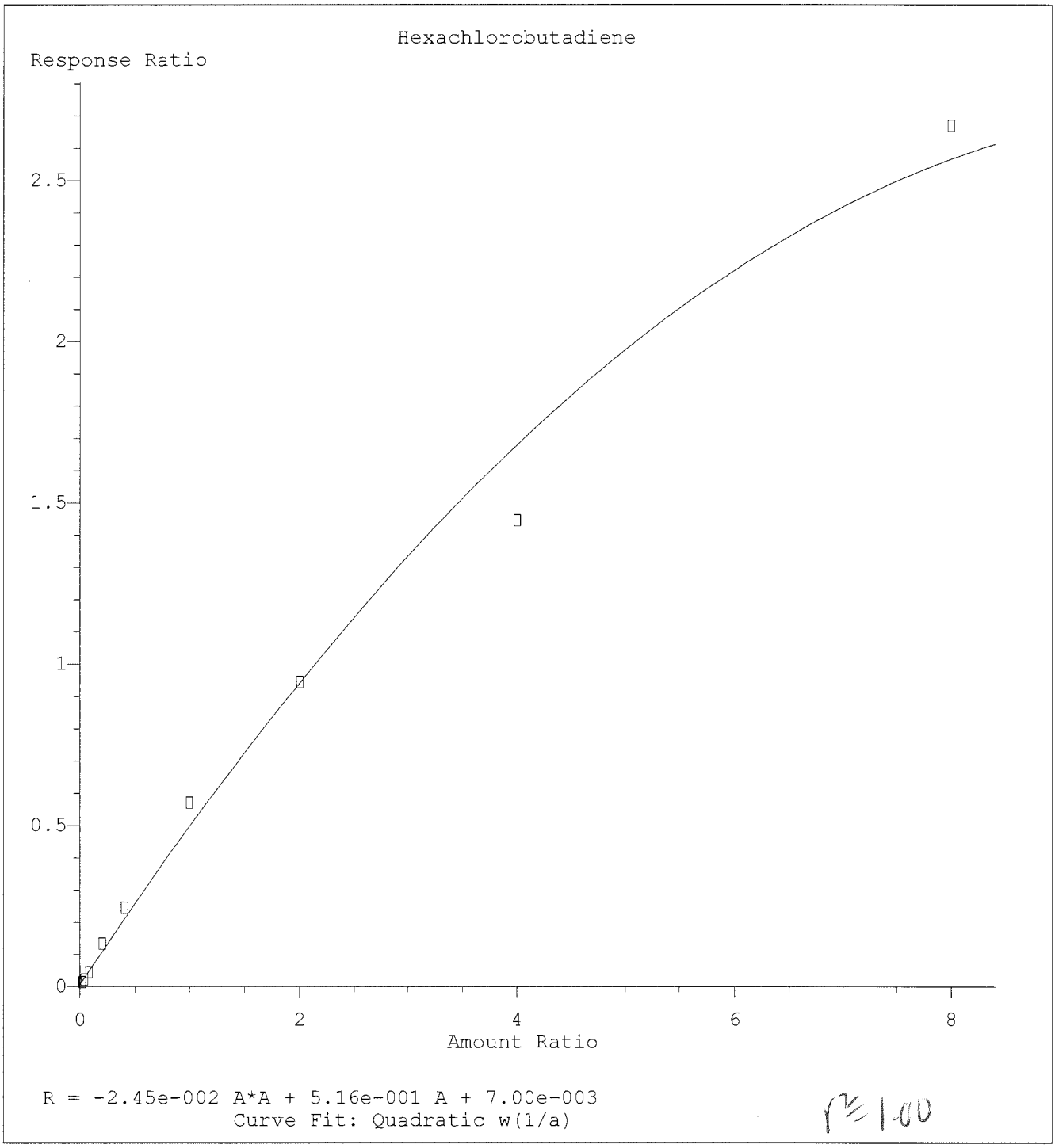


$r^2 \geq 0.999$

8/10/12

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

MM

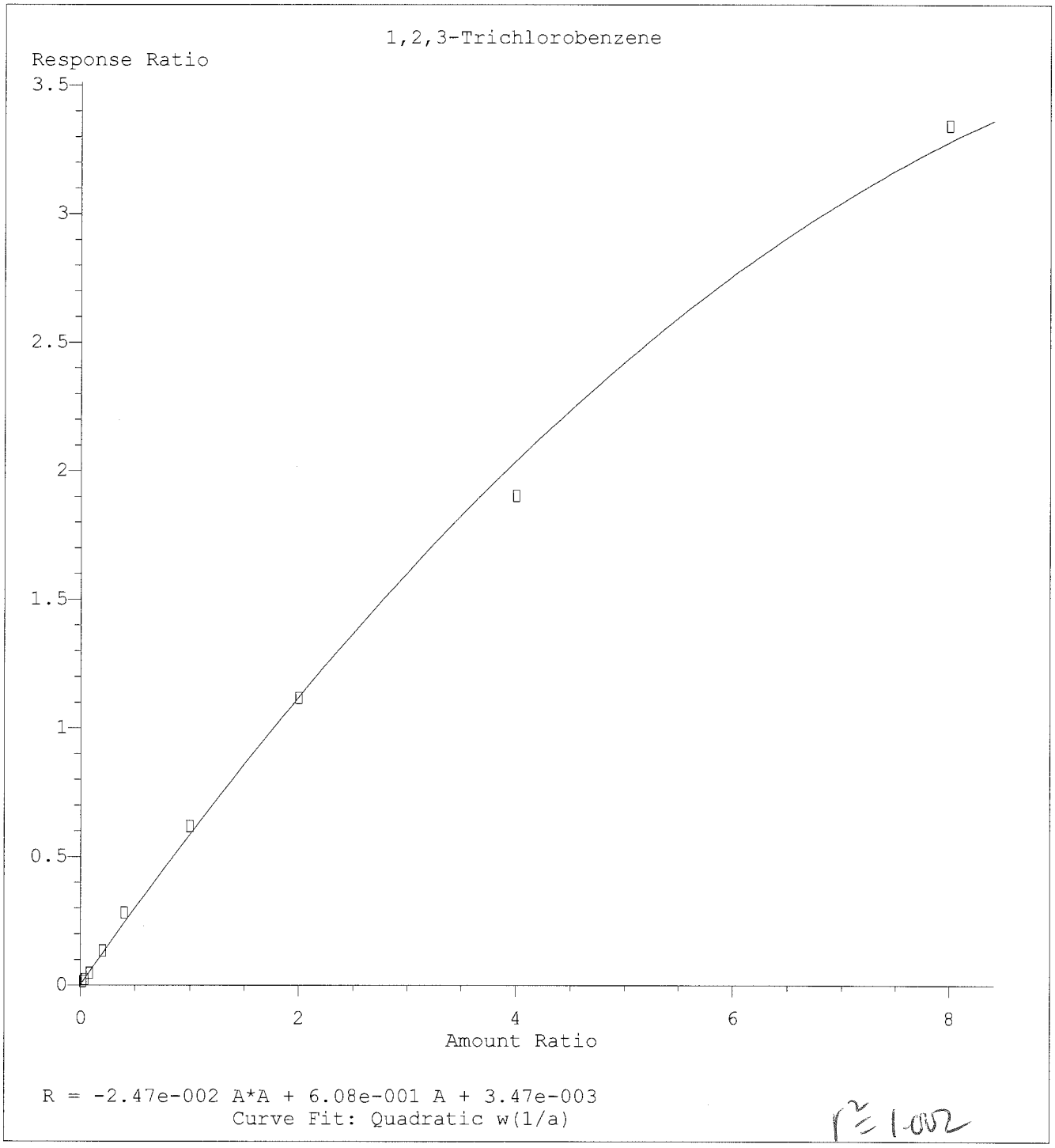


$r^2 = 1.00$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM



R = -2.47e-002 A*A + 6.08e-001 A + 3.47e-003
Curve Fit: Quadratic w(1/a)

$r^2 = 1.002$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

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MM

Untitled

RESPONSE FACTOR REPORT

Operator mm
Standard Lot
Reviewed by
GC/MS #2

8/13/12

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

Calibration File
0.5 =08101204.D 1.0 =08101205.D 2.0 =08101206.D 5.0 =08101207.D
25.0 =08101209.D 50.0 =08101210.D 100. =08101211.D 200. =08101212.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD
I	TBA-d9	ISTD										
T	Ethanol	—	—	—	—	0.104	0.102	0.095	0.115	0.124	0.108	10.55
T	tert-Butanol (TBA)	—	—	1.254	1.190	1.109	1.197	1.060	1.124	1.255	1.170	6.38
I	Pentafluorobenzene	ISTD										
T	Dichlorodifluoromethane	0.967	0.932	0.854	0.978	0.935	0.924	0.927	0.885	0.855	0.917	4.83
P	Chloromethane	0.952	0.990	0.857	0.955	0.932	0.885	0.867	0.817	0.778	0.893	7.84
C	Vinyl Chloride	0.867	0.839	0.807	0.954	0.891	0.833	0.805	0.733	0.625	0.817	11.58
T	1,3-Butadiene	—	0.422	0.420	0.486	0.477	0.452	0.443	0.424	0.410	0.442	6.35
T	Bromomethane	—	0.511	0.418	0.581	0.544	0.487	0.498	0.482	0.471	0.499	9.78
T	Chloroethane	0.369	0.390	0.399	0.454	0.420	0.409	0.421	0.405	0.380	0.405	6.21
T	Trichlorofluoromethane	0.712	0.711	0.666	0.793	0.770	0.724	0.738	0.700	0.686	0.722	5.52
T	Acetone	—	—	—	0.100	0.108	0.117	0.105	0.114	0.089	0.105	9.67
T	Iodomethane	0.819	0.892	0.854	0.856	0.875	0.831	0.837	0.827	0.804	0.844	3.31
C	1,1-Dichloroethene	0.554	0.578	0.515	0.506	0.504	0.470	0.474	0.467	0.456	0.503	8.26
T	Methylene Chloride	—	0.495	0.472	0.450	0.456	0.428	0.436	0.432	0.412	0.448	5.90
T	Freon 113	0.549	0.515	0.522	0.572	0.539	0.520	0.506	0.485	0.478	0.521	5.71
T	Carbon disulfide	1.636	1.540	1.521	1.747	1.729	1.653	1.681	1.612	1.593	1.635	4.74
T	trans-1,2-Dichloroethene	0.664	0.593	0.568	0.599	0.600	0.558	0.568	0.548	0.547	0.583	6.28
T	MTBE	0.792	0.864	0.815	0.830	0.848	0.810	0.809	0.838	0.811	0.824	2.75
P	1,1-Dichloroethane	0.878	0.920	0.935	0.973	0.935	0.888	0.892	0.866	0.860	0.905	4.17
T	Vinyl Acetate	—	—	0.588	0.619	0.644	0.637	0.647	0.685	0.672	0.642	5.01
	n-Hexane	0.130	0.150	0.145	0.166	0.144	0.137	0.144	0.136	0.136	0.143	7.34
T	2-Butanone (MEK)	—	—	0.034	0.035	0.037	0.039	0.033	0.039	0.035	0.036#	6.30
T	Diisopropyl Ether (DIPE)	1.507	1.597	1.590	1.516	1.596	1.473	1.494	1.506	1.474	1.528	3.38
T	cis-1,2-Dichloroethene	0.541	0.563	0.501	0.539	0.557	0.512	0.523	0.521	0.518	0.531	3.88
T	Bromochloromethane	0.209	0.186	0.209	0.204	0.223	0.208	0.219	0.217	0.223	0.211	5.56
C	Chloroform	0.770	0.736	0.805	0.849	0.829	0.794	0.780	0.775	0.788	0.792	4.20
T	2,2-Dichloropropane	—	0.652	0.634	0.632	0.623	0.582	0.580	0.548	0.545	0.599	6.85
T	(ETBE) 2-ethoxy-2-methyl propane	1.140	1.114	1.142	1.077	1.144	1.059	1.074	1.104	1.074	1.103	3.03
S	Dibromofluoromethane	0.407	0.452	0.483	0.436	0.454	0.430	0.409	0.424	0.440	0.437	5.43
T	Tetrahydrofuran	—	—	0.042	0.029	0.034	0.029	0.030	0.034	0.033	0.033#	13.51

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T	1,2-Dichloroethane	0.344	0.406	0.417	0.377	0.387	0.374	0.380	0.375	0.378	0.382	5.41
T	1,1,1-Trichloroethane	0.672	0.605	0.642	0.692	0.711	0.677	0.662	0.648	0.661	0.663	4.59
T	(TAME) tert-Amyl methyl ether	0.991	0.860	0.877	0.867	0.863	0.859	0.873	0.935	0.878	0.889	5.02
I	1,4-Difluorobenzene	----------ISTD----------										
T	1,1-Dichloropropene	0.537	0.536	0.511	0.571	0.596	0.525	0.534	0.489	0.513	0.535	6.02
T	Carbon Tetrachloride	0.442	0.388	0.375	0.436	0.445	0.420	0.426	0.409	0.431	0.419	5.73
T	Benzene	1.344	1.239	1.242	1.286	1.326	1.272	1.269	1.246	1.256	1.276	2.93
T	Dibromomethane	0.136	0.148	0.145	0.150	0.158	0.149	0.154	0.156	0.158	0.151	4.73
C	1,2-Dichloropropane	0.308	0.308	0.309	0.302	0.316	0.302	0.296	0.295	0.299	0.304	2.22
T	Trichloroethene	0.354	0.325	0.374	0.387	0.369	0.361	0.355	0.340	0.353	0.358	5.09
T	Bromodichloromethane	0.300	0.310	0.334	0.367	0.373	0.360	0.364	0.372	0.370	0.350	8.06
T	2-Chlorovinylethylether	—	—	0.108	0.097	0.121	0.113	0.119	0.124	0.123	0.115	8.46
T	cis-1,3-Dichloropropene	0.377	0.366	0.384	0.405	0.428	0.422	0.430	0.431	0.427	0.408	6.28
T	4-Methyl-2-Pentanone (MIBK)	—	0.205	0.187	0.169	0.187	0.171	0.175	0.191	0.180	0.183	6.44
T	trans-1,3-Dichloropropene	0.298	0.299	0.278	0.298	0.318	0.316	0.319	0.331	0.335	0.310	5.93
T	1,1,2-Trichloroethane	0.119	0.179	0.179	0.181	0.190	0.185	0.185	0.186	0.188	0.177	12.54
S	Toluene-d8	1.049	0.911	1.086	1.023	1.040	0.992	0.921	0.911	0.952	0.987	6.69
C	Toluene	0.753	0.660	0.734	0.766	0.757	0.722	0.733	0.699	0.707	0.726	4.58
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.365	0.458	0.407	0.467	0.465	0.455	0.453	0.474	0.451	0.444	7.94
T	2-Hexanone	—	—	0.160	0.174	0.182	0.194	0.187	0.216	0.186	0.186	9.32
T	Dibromochloromethane	0.248	0.295	0.288	0.317	0.341	0.337	0.341	0.363	0.365	0.322	12.00
T	1,2-Dibromoethane	0.237	0.251	0.276	0.267	0.288	0.279	0.264	0.283	0.283	0.270	6.27
T	Tetrachloroethene	0.467	0.429	0.415	0.472	0.462	0.459	0.420	0.415	0.425	0.440	5.44
T	1,1,1,2-Tetrachloroethane	0.370	0.327	0.329	0.360	0.373	0.376	0.347	0.341	0.353	0.353	5.20
P	Chlorobenzene	1.007	0.931	1.012	1.075	1.108	1.054	1.029	1.026	0.995	1.026	4.95
C	Ethylbenzene	1.805	1.800	1.618	1.841	1.912	1.875	1.810	1.764	1.708	1.793	4.93
T	m,p-Xylenes	0.655	0.637	0.597	0.704	0.752	0.717	0.702	0.700	0.693	0.684	6.81
T	Styrene	0.888	0.824	0.839	0.876	0.985	0.994	0.955	0.947	0.936	0.916	6.72
T	o-Xylene	0.692	0.604	0.544	0.642	0.700	0.653	0.648	0.597	0.609	0.632	7.75
S	4-Bromofluorobenzene	0.398	0.374	0.403	0.382	0.430	0.384	0.356	0.378	0.371	0.386	5.51
I	1,4-Dichlorobenzene-d4	----------ISTD----------										
P	Bromoform	0.366	0.381	0.372	0.423	0.417	0.418	0.459	0.479	0.557	0.430	14.13
P	1,1,2,2-Tetrachloroethane	0.682	0.648	0.661	0.657	0.760	0.644	0.661	0.660	0.671	0.672	5.23
T	1,2,3-Trichloropropane	—	0.152	0.152	0.170	0.166	0.154	0.160	0.170	0.170	0.162	5.05
T	trans-1,4-Dichloro-2-butene	—	—	0.106	0.144	0.151	0.150	0.148	0.174	0.176	0.150	15.43
T	Isopropylbenzene	3.964	3.555	3.613	3.872	4.007	3.584	3.622	3.547	3.841	3.734	4.96
T	Bromobenzene	0.876	0.806	0.904	0.900	0.955	0.901	0.900	0.927	1.019	0.910	6.30
T	n-Propylbenzene	5.063	4.533	4.406	4.869	5.070	4.617	4.641	4.603	4.857	4.740	4.96
T	2-Chlorotoluene	2.658	2.497	2.645	2.616	2.737	2.424	2.441	2.453	2.592	2.563	4.37
T	4-Chlorotoluene	2.587	2.456	2.405	2.628	2.644	2.367	2.404	2.451	2.614	2.506	4.41
T	1,3,5-Trimethylbenzene	3.001	2.763	2.877	2.992	3.233	2.889	2.859	2.688	2.905	2.912	5.36
T	tert-Butylbenzene	2.848	2.500	2.568	2.674	2.877	2.581	2.543	2.359	2.456	2.601	6.62
T	1,2,4-Trimethylbenzene	2.866	2.631	2.763	2.886	2.995	2.688	2.699	2.561	2.702	2.755	4.98
T	sec-Butylbenzene	4.618	3.925	4.247	4.555	4.681	4.210	4.056	3.714	3.871	4.209	8.29
T	1,3-Dichlorobenzene	1.830	1.585	1.564	1.736	1.809	1.606	1.641	1.522	1.610	1.656	6.63
T	1,4-Dichlorobenzene	1.863	1.547	1.603	1.623	1.731	1.562	1.586	1.530	1.565	1.623	6.63

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T	p-Isopropyltoluene	3.147	3.133	3.086	3.325	3.518	3.188	3.136	2.869	2.980	3.154	5.94
T	1,2-Dichlorobenzene	1.555	1.360	1.332	1.386	1.456	1.330	1.342	1.172	1.199	1.348	8.70
T	n-Butylbenzene	3.068	2.923	2.932	3.235	3.424	3.092	3.023	2.758	2.761	3.024	7.11
T	1,2-Dibromo-3-chloropropane	—	—	0.070	0.053	0.073	0.073	0.069	0.055	0.051	0.063#	15.93
T	1,2,4-Trichlorobenzene	0.834	0.622	0.721	0.802	0.873	0.763	0.720	0.591	0.578	0.723	14.76
T	Napthalene	1.328	1.259	1.077	1.222	1.370	1.214	1.090	0.962	0.886	1.156	14.17
T	Hexachlorobutadiene	0.765	0.578	0.568	0.673	0.613	0.571	0.472	0.362	0.334	0.549	25.40
T	1,2,3-Trichlorobenzene	0.768	0.594	0.601	0.674	0.707	0.618	0.559	0.476	0.418	0.602	18.17

(#) = Out of Range

081012.M Mon Aug 13 06:02:31 2012

mm

ANALYTICAL DATA

METHOD: 8260

DATE: 09/12/12

WORK ORDER: PVI0512

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091212

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09121201.d	1.	TUNE		12 Sep 2012 05:07
2	1	09121202.d	1.	TUNE		12 Sep 2012 05:17
3	2	09121203.d	1.	25 PPB CCV		12 Sep 2012 05:32
4	3	09121204.d	1.	12I0353-BS1		12 Sep 2012 06:06
5	4	09121205.d	1.	12I0353-BSD1		12 Sep 2012 06:39
6	5	09121206.d	1.	12I0353-BLK1		12 Sep 2012 07:11
7	6	09121207.d	1.	12I0355-BLK1		12 Sep 2012 07:46
8	7	09121208.d	1.	12I0355-BLK2		12 Sep 2012 08:18
9	8	09121209.d	1.	PVI0476-01		12 Sep 2012 08:51
10	9	09121210.d	1.	PVI0014-01		12 Sep 2012 09:23
11	10	09121211.d	1.	PVI0462-01		12 Sep 2012 09:56
12	11	09121212.d	1.	PVI0463-01		12 Sep 2012 10:29
13	12	09121213.d	1.	PVI0349-01	SOURCE	12 Sep 2012 11:01
14	13	09121214.d	1.	12I0355-MS1		12 Sep 2012 11:34
15	14	09121215.d	1.	12I0355-MSD1		12 Sep 2012 12:06
16	15	09121216.d	1.	PVI0410-01		12 Sep 2012 12:39
17	16	09121217.d	1.	PVI0410-02		12 Sep 2012 13:12
18	17	09121218.d	1.	PVI0410-03		12 Sep 2012 13:44
19	18	09121219.d	1.	PVI0410-04		12 Sep 2012 14:17
20	19	09121220.d	1.	PVI0410-05		12 Sep 2012 14:49
21	20	09121221.d	1.	12I0353-MS1		12 Sep 2012 15:22
22	21	09121222.d	1.	12I0353-MSD1		12 Sep 2012 15:55
23	1	09121223.d	1.	TUNE		12 Sep 2012 16:21
24	2	09121224.d	1.	25 PPB CCV		12 Sep 2012 16:45
25	3	09121225.d	1.	12I0394-BS1		12 Sep 2012 17:17
26	4	09121226.d	1.	12I0394-BSD1		12 Sep 2012 17:51
27	5	09121227.d	1.	12I0394-BLK1		12 Sep 2012 18:25
28	6	09121228.d	1.	PVI0438-15@TB		12 Sep 2012 18:57
29	7	09121229.d	1.	PVI0512-01@TB		12 Sep 2012 19:30
30	8	09121230.d	1.	PVI0525-01@TB		12 Sep 2012 20:02
31	9	09121231.d	1.	PVI0525-02		12 Sep 2012 20:35
32	10	09121232.d	1.	PVI0525-03		12 Sep 2012 21:08
33	11	09121233.d	1.	PVI0525-04		12 Sep 2012 21:40
34	12	09121234.d	1.	PVI0525-05		12 Sep 2012 22:13
35	13	09121235.d	1.	PVI0525-06	SOURCE	12 Sep 2012 22:46
36	14	09121236.d	1.	12I0394-MS1		12 Sep 2012 23:18
37	15	09121237.d	1.	12I0394-MSD1		12 Sep 2012 23:51
38	16	09121238.d	1.	PVI0512-02		13 Sep 2012 00:23
39	17	09121239.d	1.	PVI0512-03		13 Sep 2012 00:56
40	18	09121240.d	1.	PVI0512-04		13 Sep 2012 01:29
41	19	09121241.d	1.	PVI0609-19		13 Sep 2012 02:01
42	20	09121242.d	1.	PVI0609-20		13 Sep 2012 02:34
43	21	09121243.d	1.	PVI0609-21		13 Sep 2012 03:07
44	22	09121244.d	1.	PVI0438-14		13 Sep 2012 03:39
45	23	09121245.d	1.	PVI0398-02@10X		13 Sep 2012 04:12

9/13/12

MM
9/12/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

12I0394 - H_2O (2nd clock

DATE: 9/12/12

QC BATCH # (s) : 1210353/355

ANALYST: mm

SEQUENCE FILE: C:\GCMS2\DATA\ 091212S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09121201 02	Tune Tune	2ml 2ml	NA	8260	NA	Dilutailed
2	03	25 ppb CCV	✓			H_2O	Hex ↑
3	04	1210353-BS1	✓				
4	05	-BSD1	✓				
5	06	-BLK1	✓				
6	07	1210353-BLK1	100µl			TCLP	1210259
7	08	-BLK2	100µl				1210260
8	09	PV10476-01	100µl				
9	10	0014-01	100µl				
10	11	0462-01	100µl				
11	12	0463-01	100µl				20L 80F
12	13	0349-01	100µl				Same
13	14	1210355-MS1	100µl				
14	15	-MSD1	100µl				
15	16	PV10460-01A	✓	✓		H_2O	(PV10410)
16	17	-02A	✓	✓			
17	18	-03A	✓	✓			
18	19	-04A	✓	✓			
19	20	-05A	✓	✓			Source LL10X X
20	21	1210353-MS1	✓	✓			
21	22	-MSD1	✓	✓			
1	23	tune	2ml	NA	8260	NA	
2	24	25 ppb CCV	✓			H_2O	
3	25	12I0394-BS1	✓				
4	26	-BSD1	✓				
5	27	-BLK1	✓				
6	28	PV10438-15A	✓	✓			TB
7	29	0512-01A	✓	✓			TB
8	30	0525-01A	✓	✓			TB
9	31	-02A	✓	✓			

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05577/5026 / 2nd clock 5006L

CCV/CALIBRATION STD: PV05486/5431

Internal Std: 5519

IS/Surrogate/BFB: 5503/5230

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µl CAL Std + 5µl IS/Sm H_2O

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: AM seq. 9/12/12

SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: 9/13/12 9/13/12

PX-VOA-010/E-09/11

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 091212

QC BATCH # (s) : 12I0353/0355/0394

ANALYST: EH

SEQUENCE FILE: C:\GCMS2\DATA\ 091212.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
10	091212 32	PVI0525-03A	✓	✓	8260	H_2O	
11	33	-04A	✓	✓			RR 10X MEK
12	34	-05A	✓	✓			
13	35	-06A	✓	✓			source
14	36	12I0394-MS1	✓	✓			
15	37	-MSD1	✓	✓			
16	38	PVI0512-02A	✓	✓			
17	39	-03A	✓	✓			
18	40	-04A	✓	✓			
19	41	PVI0609-19A	✓	✓			
20	42	-20A	✓	✓			
21	43	-21A	✓	✓			
22	44	PVI0438-14A	✓	✓			RR for Ethanol
23	45	PVI0398-02A	1mL → 10mL H_2O	7			10X biosolid pH

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD:

Internal Std:

IS/Surrogate/BFB:

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date:

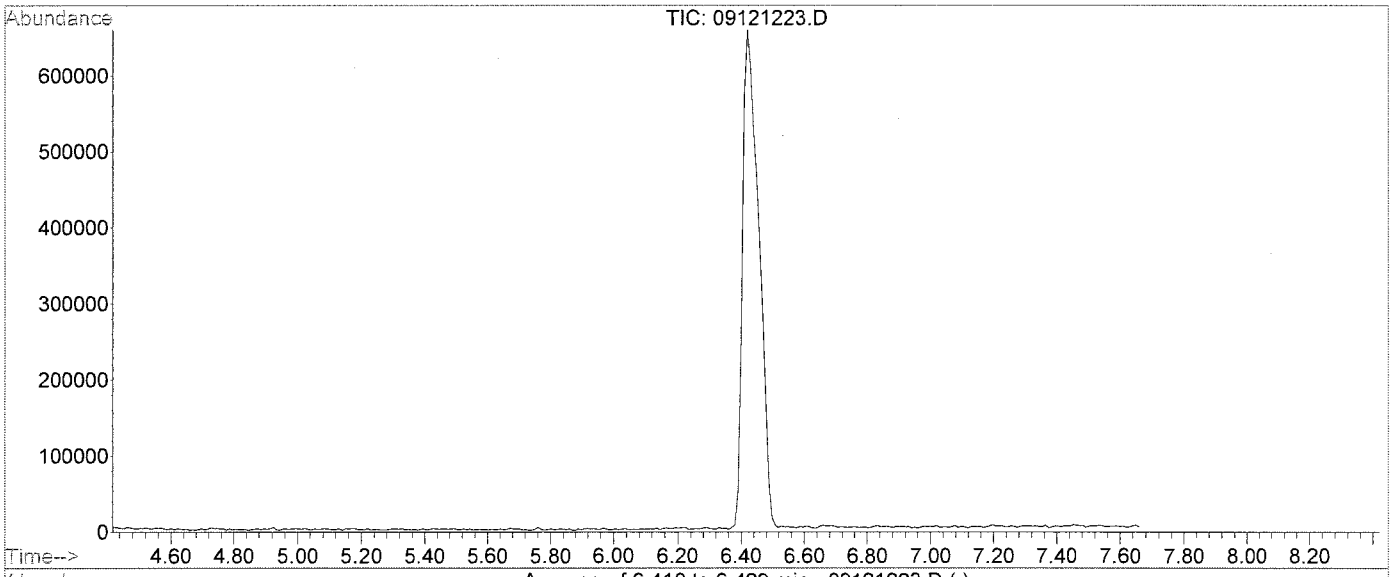
SEQUENCE REVIEWED By/Date:

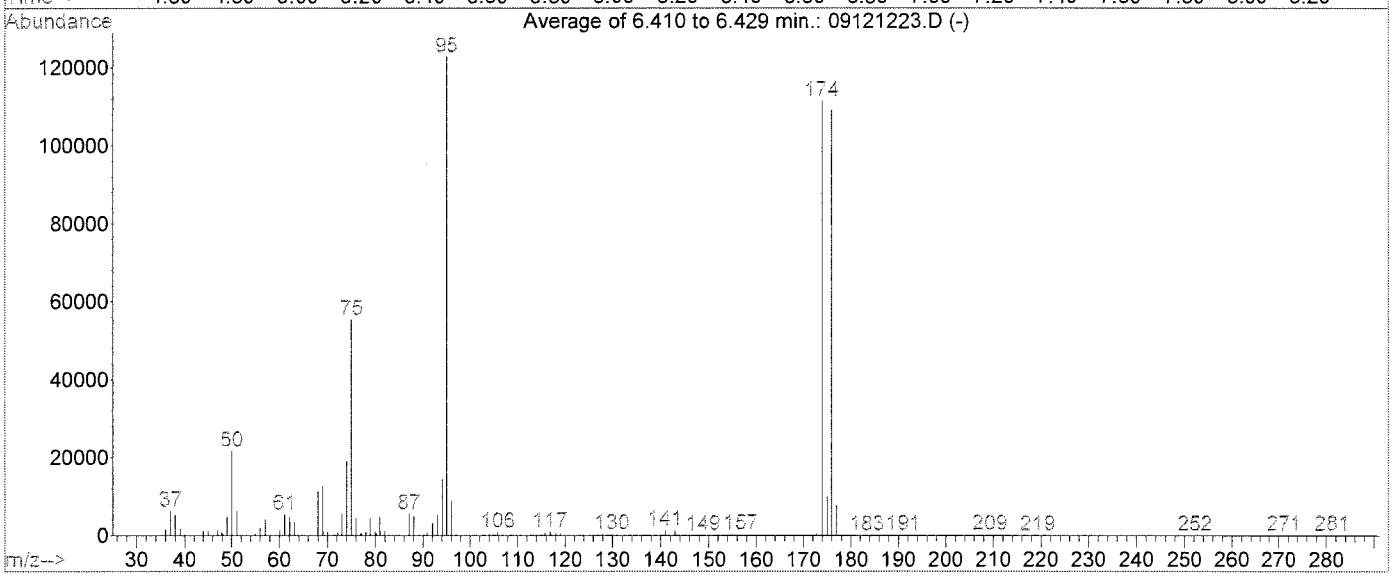
FINAL REVIEWER / Date: 9/13/10

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121223.D Vial: 1
Acq On : 12 Sep 2012 4:21 pm Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration

9/13/12





Spectrum Information: Average of 6.410 to 6.429 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	21629	PASS
75	95	30	60	45.1	55381	PASS
95	95	100	100	100.0	122771	PASS
96	95	5	9	7.1	8757	PASS
173	174	0.00	2	0.3	354	PASS
174	95	50	100	90.7	111379	PASS
175	174	5	9	9.0	9972	PASS
176	174	95	101	97.9	109069	PASS
177	176	5	9	7.1	7745	PASS

MM 9/13/12

09121223.D 081012.M Thu Sep 13 06:45:07 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09121224.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091212\
Operator	MNM
Date Acquired	9/12/2012 4:45
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	81232	52594	26297	105188	TRUE
4)	Pentafluorobenzene	278093	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	378069	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	276379	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	113373	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	213.95	250	86%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	118.60	125	95%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	24.06	25	96%	60%	140%	TRUE	
6)	Chloromethane	20.63	25	83%	48%	144%	TRUE	
7)	Vinyl Chloride	23.86	25	95%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	21.50	25	86%	50%	141%	TRUE	
9)	Bromomethane	24.27	25	97%	40%	144%	TRUE	
10)	Chloroethane	23.43	25	94%	60%	132%	TRUE	
11)	Trichlorofluoromethane	26.71	25	107%	68%	136%	TRUE	
12)	Acetone	24.56	25	98%	12%	150%	TRUE	
13)	Iodomethane	24.58	25	98%	40%	160%	TRUE	
14)	1,1-Dichloroethene	22.67	25	91%	80%	120%	TRUE	CCC
15)	Methylene Chloride	24.75	25	99%	68%	128%	TRUE	
16)	Freon 113	24.43	25	98%	76%	124%	TRUE	
17)	Carbon disulfide	22.82	25	91%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	20.67	25	83%	76%	120%	TRUE	
19)	MTBE	23.73	25	95%	64%	140%	TRUE	
20)	1,1-Dichloroethane	21.01	25	84%	72%	124%	TRUE	
21)	Vinyl Acetate	19.73	25	79%	48%	150%	TRUE	
22)	n-Hexane	20.19	25	81%	56%	150%	TRUE	
23)	2-Butanone (MEK)	19.40	25	78%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	19.55	25	78%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	20.88	25	84%	72%	128%	TRUE	
26)	Bromochloromethane	23.64	25	95%	72%	132%	TRUE	
27)	Chloroform	22.20	25	89%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	25.29	25	101%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	21.71	25	87%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**24.84**	**25**	99%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	22.21	25	89%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.55	25	102%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	25.59	25	102%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	21.84	25	87%	68%	140%	TRUE	
36)	1,1-Dichloropropene	21.10	25	84%	76%	128%	TRUE	
37)	Carbon Tetrachloride	27.88	25	112%	72%	136%	TRUE	
38)	Benzene	21.71	25	87%	76%	120%	TRUE	

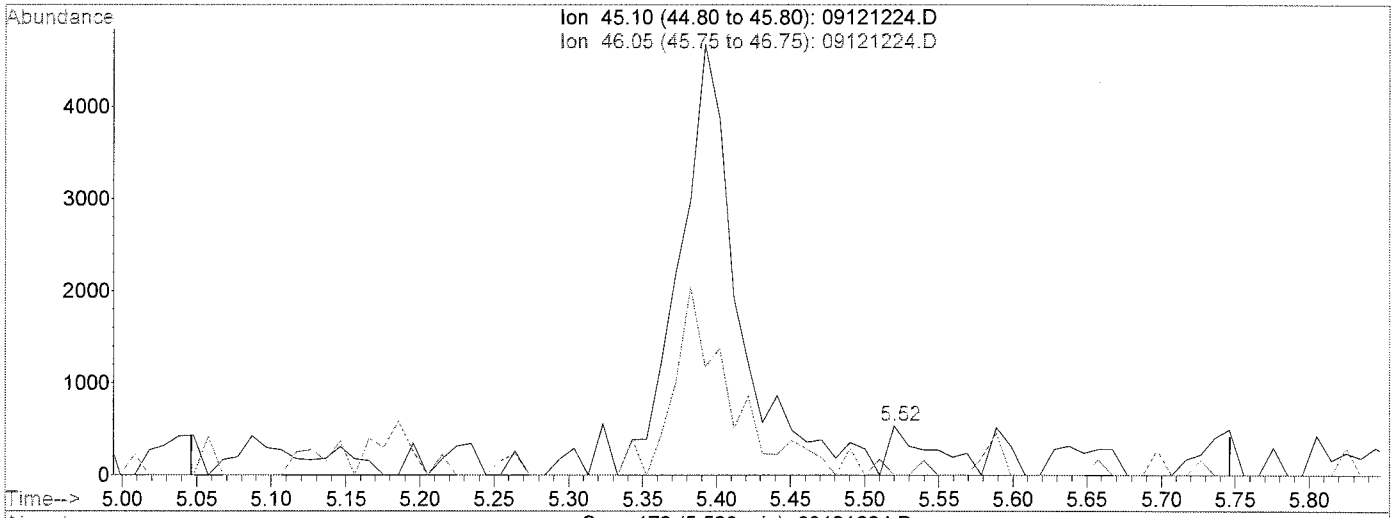
MM 9/13/12

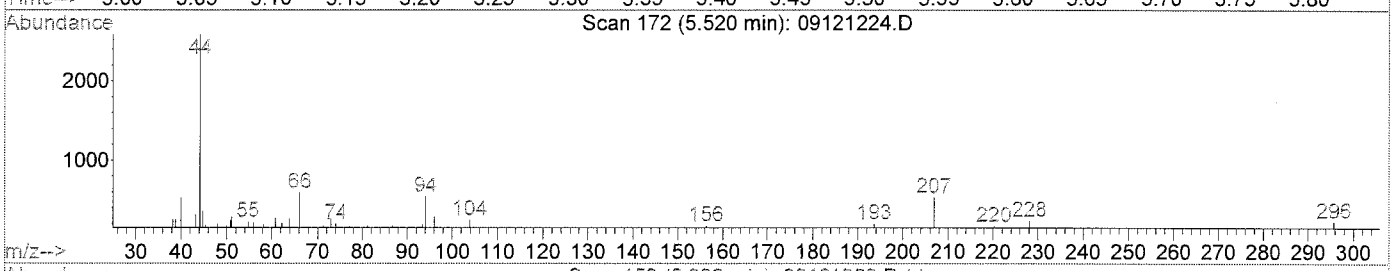
39)	Dibromomethane	23.72	25	95%	72%	132%	TRUE	
40)	1,2-Dichloropropane	21.14	25	85%	80%	120%	TRUE	CCC
41)	Trichloroethene	21.96	25	88%	80%	120%	TRUE	
42)	Bromodichloromethane	24.81	25	99%	76%	128%	TRUE	
43)	2-Chlorovinylethylether	11.57	25	46%	10%	150%	TRUE	
44)	cis-1,3-Dichloropropene	23.01	25	92%	76%	136%	TRUE	
45)	4-Methyl-2-Pentanone (MIBK)	21.56	25	86%	60%	144%	TRUE	
46)	trans-1,3-Dichloropropene	23.87	25	95%	68%	140%	TRUE	
47)	1,1,2-Trichloroethane	24.24	25	97%	72%	132%	TRUE	
48)	**Toluene-d8**	**24.44**	**25**	98%	80%	120%	**TRUE**	
49)	Toluene	22.13	25	89%	80%	120%	TRUE	CCC
51)	1,3-Dichloropropane	21.85	25	87%	80%	124%	TRUE	
52)	2-Hexanone	19.78	25	79%	52%	150%	TRUE	
53)	Dibromochloromethane	27.31	25	109%	80%	128%	TRUE	
54)	1,2-Dibromoethane	22.83	25	91%	80%	128%	TRUE	
55)	Tetrachloroethene	22.44	25	90%	76%	128%	TRUE	
56)	1,1,1,2-Tetrachloroethane	24.08	25	96%	76%	124%	TRUE	
57)	Chlorobenzene	22.80	25	91%	80%	120%	TRUE	
58)	Ethylbenzene	22.45	25	90%	80%	120%	TRUE	CCC
59)	m,p-Xylenes	23.40	25	94%	80%	120%	TRUE	
60)	Styrene	22.96	25	92%	84%	124%	TRUE	
61)	o-Xylene	21.86	25	87%	72%	128%	TRUE	
62)	**4-Bromofluorobenzene**	**25.53**	**25**	102%	80%	120%	**TRUE**	
64)	Bromoform	28.56	25	114%	68%	132%	TRUE	
65)	1,1,2,2-Tetrachloroethane	23.94	25	96%	68%	132%	TRUE	
66)	1,2,3-Trichloropropane	25.47	25	102%	76%	128%	TRUE	
67)	trans-1,4-Dichloro-2-butene	19.54	25	78%	48%	138%	TRUE	
68)	Isopropylbenzene	23.34	25	93%	76%	132%	TRUE	
69)	Bromobenzene	24.74	25	99%	76%	128%	TRUE	
70)	n-Propylbenzene	22.97	25	92%	76%	132%	TRUE	
71)	2-Chlorotoluene	23.90	25	96%	80%	124%	TRUE	
72)	4-Chlorotoluene	23.27	25	93%	80%	124%	TRUE	
73)	1,3,5-Trimethylbenzene	24.20	25	97%	80%	128%	TRUE	
74)	tert-Butylbenzene	24.73	25	99%	76%	132%	TRUE	
75)	1,2,4-Trimethylbenzene	25.18	25	101%	80%	128%	TRUE	
76)	sec-Butylbenzene	23.76	25	95%	80%	128%	TRUE	
77)	1,3-Dichlorobenzene	22.54	25	90%	80%	124%	TRUE	
78)	1,4-Dichlorobenzene	22.65	25	91%	76%	120%	TRUE	
79)	p-Isopropyltoluene	24.94	25	100%	80%	128%	TRUE	
80)	1,2-Dichlorobenzene	23.47	25	94%	80%	124%	TRUE	
81)	n-Butylbenzene	22.37	25	89%	76%	132%	TRUE	
82)	1,2-Dibromo-3-chloropropane	31.47	25	126%	64%	128%	TRUE	
83)	1,2,4-Trichlorobenzene	24.78	25	99%	76%	128%	TRUE	
84)	Napthalene	26.88	25	108%	68%	136%	TRUE	
85)	Hexachlorobutadiene	31.53	25	126%	76%	132%	TRUE	
86)	1,2,3-Trichlorobenzene	25.77	25	103%	72%	128%	TRUE	

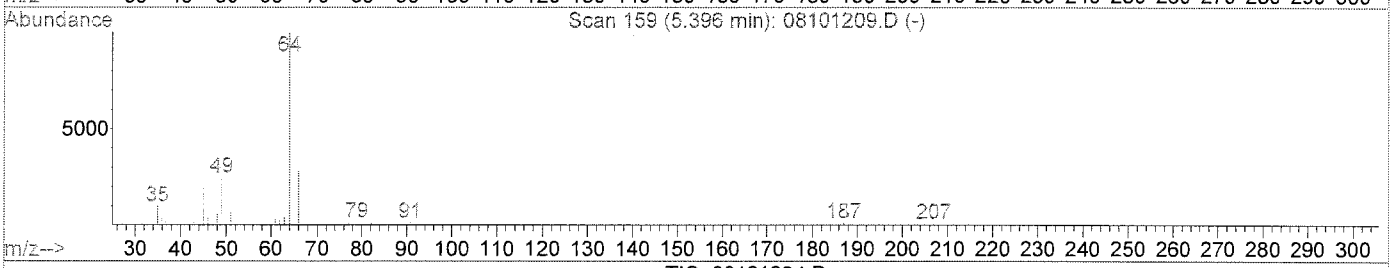
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121224.D

(2) Ethanol (T)

5.52min 24.71ug/L

response 1082

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	46.03
0.00	0.00	0.00
0.00	0.00	0.00

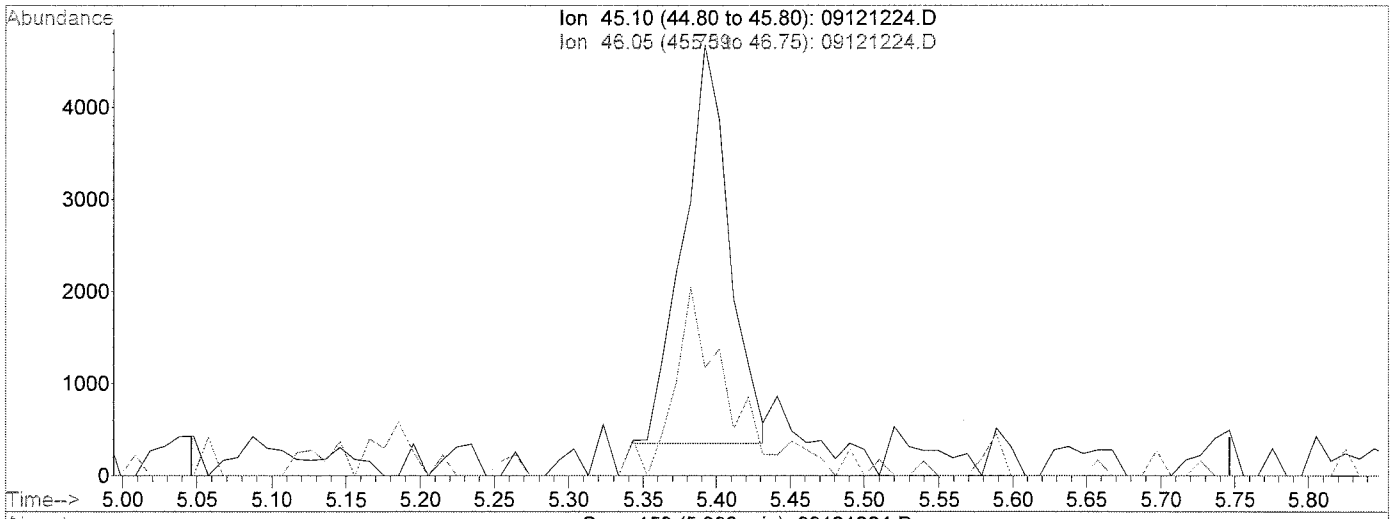
9/13/12

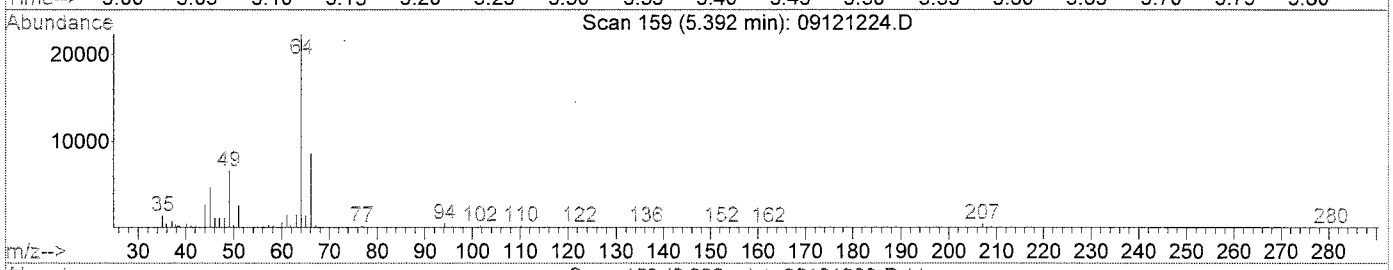
BL MM 9/13/12

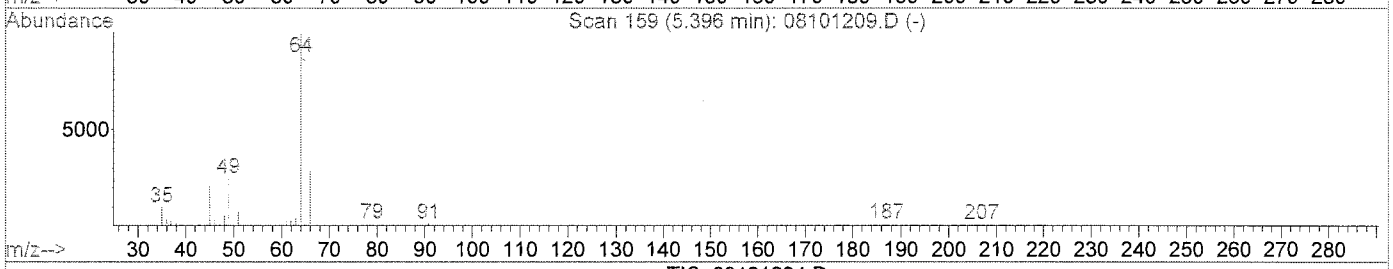
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121224.D

(2) Ethanol (T)

5.39min 213.95ug/L m

response 9370

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	5.31#
0.00	0.00	0.00
0.00	0.00	0.00

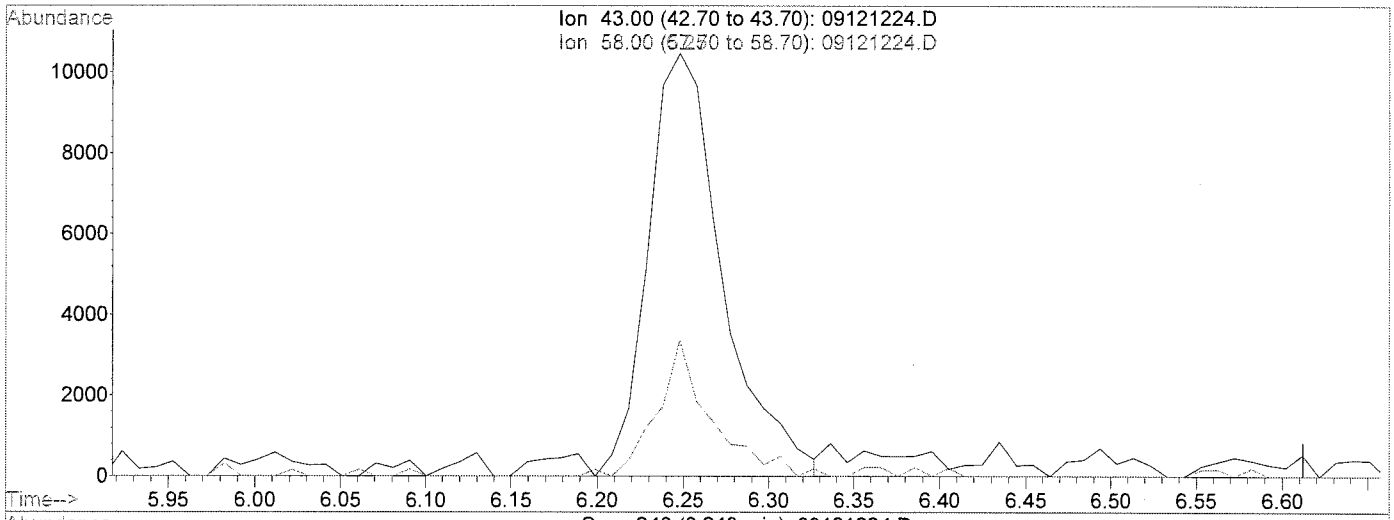
✓ 9/13/12

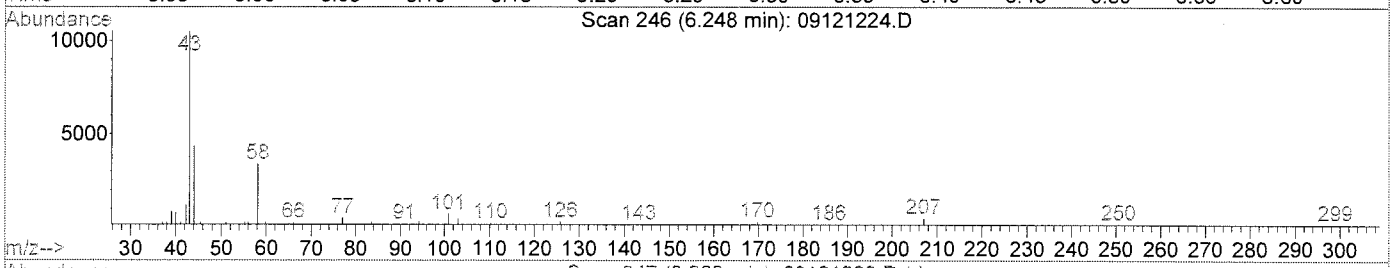
MM 9/13/12

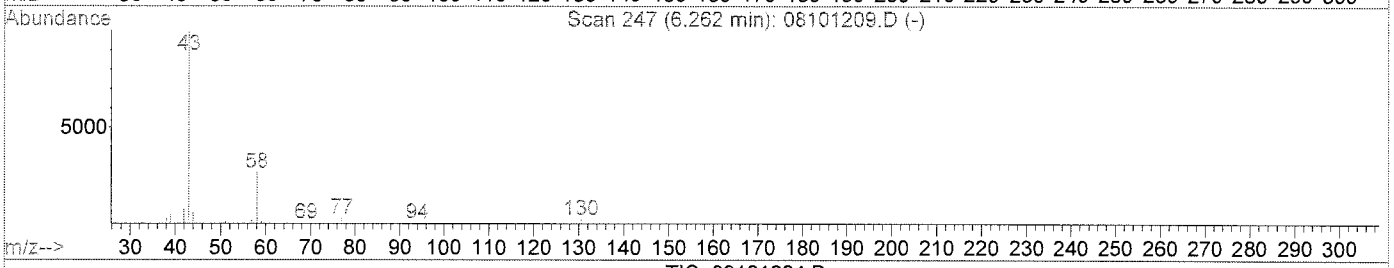
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121224.D

✓9/13/12

(12) Acetone (T)

6.25min 26.91ug/L

response 31505

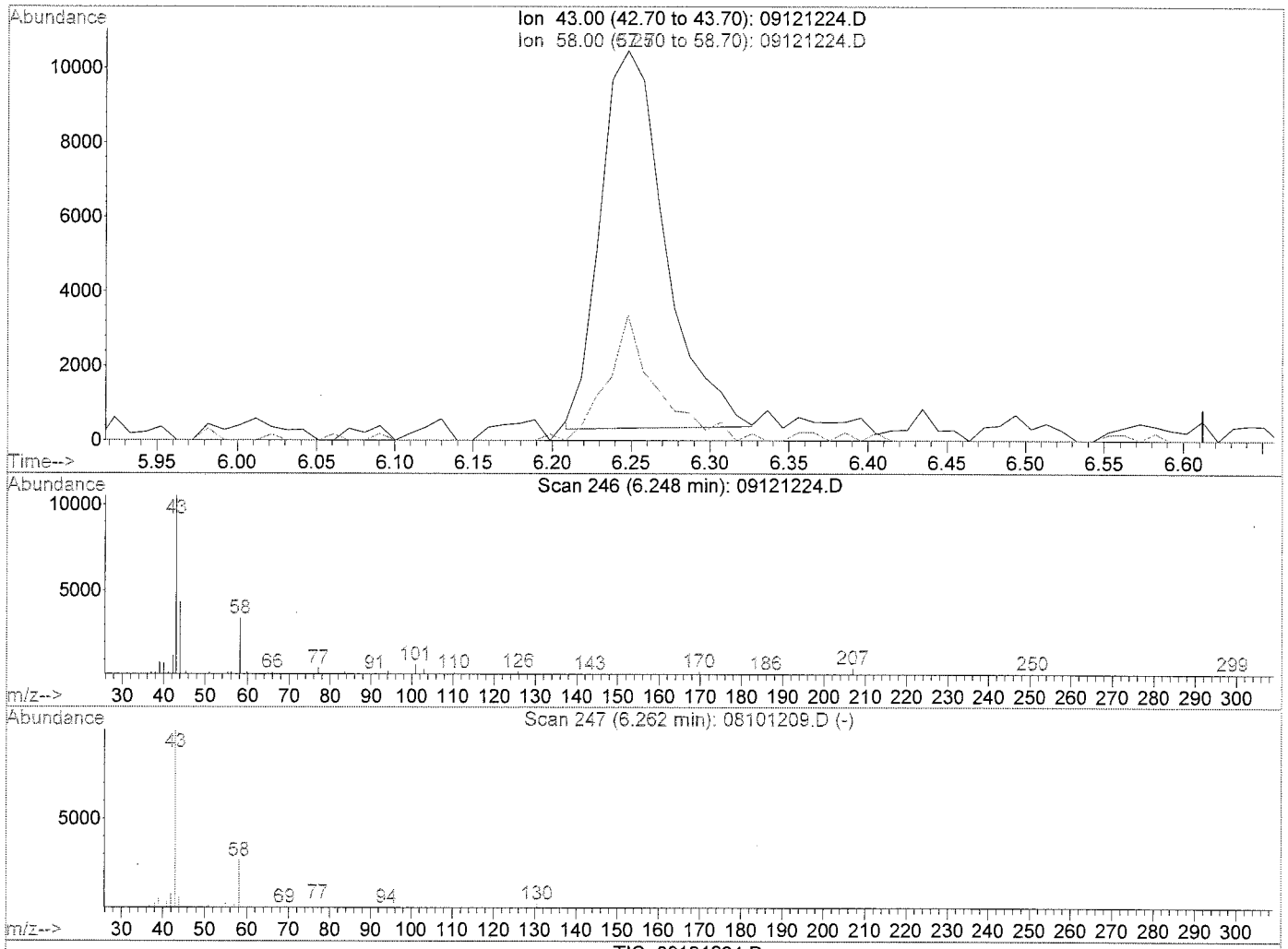
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	23.53#
0.00	0.00	0.00
0.00	0.00	0.00

DL
MM 9/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



TIC: 09121224.D

✓9/13/12

(12) Acetone (T)

6.25min 24.56ug/L m

response 28752

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	25.78#
0.00	0.00	0.00
0.00	0.00	0.00

MNM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	81232	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.84	168	278093	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	378069	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	276379	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	113373	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120824	24.84 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.36%	
48) Toluene-d8	13.32	98	364835	24.44 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.76%	
62) 4-Bromofluorobenzene	16.95	95	109016	25.53 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.12%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	9370m	213.95 ug/L	
3) tert-Butanol (TBA)	6.83	59	56356	118.60 ug/L	99
5) Dichlorodifluoromethane	4.10	85	245535	24.06 ug/L	99
6) Chloromethane	4.34	50	204837	20.63 ug/L	96
7) Vinyl Chloride	4.62	62	216811	23.86 ug/L	100
8) 1,3-Butadiene	4.78	54	105668	21.50 ug/L	94
9) Bromomethane	5.19	94	134724	24.27 ug/L	99
10) Chloroethane	5.37	64	105594	23.43 ug/L	100
11) Trichlorofluoromethane	6.11	101	214526	26.71 ug/L	100
12) Acetone	6.25	43	28752m	24.56 ug/L	
13) Iodomethane	6.86	142	230762	24.58 ug/L	93
14) 1,1-Dichloroethene	6.80	96	126762	22.67 ug/L	98
15) Methylene Chloride	6.99	84	123217	24.75 ug/L	96
16) Freon 113	7.06	101	141489	24.43 ug/L	96
17) Carbon disulfide	7.29	76	414931	22.82 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	134014	20.67 ug/L	99
19) MTBE	7.99	73	217579	23.73 ug/L	98
20) 1,1-Dichloroethane	8.18	63	211505	21.01 ug/L	98
21) Vinyl Acetate	8.33	43	140783	19.73 ug/L	98
22) n-Hexane	8.69	86	32126	20.19 ug/L	80
23) 2-Butanone (MEK)	8.72	72	7770	19.40 ug/L #	10
24) Diisopropyl Ether (DIPE)	8.74	45	332347	19.55 ug/L #	91
25) cis-1,2-Dichloroethene	8.90	96	123219	20.88 ug/L	98
26) Bromochloromethane	9.11	128	55384	23.64 ug/L	97
27) Chloroform	9.17	83	195560	22.20 ug/L	97
28) 2,2-Dichloropropane	9.28	77	168642	25.29 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	266488	21.71 ug/L	99
31) Tetrahydrofuran	9.59	72	8092	22.21 ug/L #	71
32) 1,2-Dichloroethane	10.02	62	108581	25.55 ug/L	93
33) 1,1,1-Trichloroethane	10.13	97	188737	25.59 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	215981	21.84 ug/L	98
36) 1,1-Dichloropropene	10.37	75	170620	21.10 ug/L	99
37) Carbon Tetrachloride	10.61	117	176714	27.88 ug/L	99
38) Benzene	10.65	78	418913	21.71 ug/L	98
39) Dibromomethane	11.38	93	54014	23.72 ug/L	98
40) 1,2-Dichloropropane	11.43	63	97178	21.14 ug/L	94

(#) = qualifier out of range (m) = manual integration

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	118769	21.96 ug/L	99
42)	Bromodichloromethane	11.54	83	131274	24.81 ug/L	99
43)	2-Chlorovinylethylether	12.08	63	20093	11.57 ug/L	95
44)	cis-1,3-Dichloropropene	12.39	75	141937	23.01 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	59711	21.56 ug/L	97
46)	trans-1,3-Dichloropropene	12.96	75	111962	23.87 ug/L	94
47)	1,1,2-Trichloroethane	13.16	97	64843	24.24 ug/L	96
49)	Toluene	13.42	92	242861	22.13 ug/L	99
51)	1,3-Dichloropropane	13.49	76	107229	21.85 ug/L	99
52)	2-Hexanone	13.68	43	40574	19.78 ug/L	95
53)	Dibromochloromethane	13.85	129	97161	27.31 ug/L	94
54)	1,2-Dibromoethane	14.19	107	68077	22.83 ug/L	99
55)	Tetrachloroethene	14.40	164	109258	22.44 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.22	131	93938	24.08 ug/L	98
57)	Chlorobenzene	15.32	112	258643	22.80 ug/L	98
58)	Ethylbenzene	15.58	91	444977	22.45 ug/L	99
59)	m,p-Xylenes	15.85	106	176921	23.40 ug/L	96
60)	Styrene	16.29	104	232474	22.96 ug/L	96
61)	o-Xylene	16.39	106	152742	21.86 ug/L	94
64)	Bromoform	16.01	173	55742	28.56 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.39	83	72892	23.94 ug/L	98
66)	1,2,3-Trichloropropane	16.59	110	18690	25.47 ug/L	95
67)	trans-1,4-Dichloro-2-buten	16.62	53	14429	19.54 ug/L	95
68)	Isopropylbenzene	16.89	105	395184	23.34 ug/L	98
69)	Bromobenzene	17.24	156	102068	24.74 ug/L	99
70)	n-Propylbenzene	17.50	91	493777	22.97 ug/L	99
71)	2-Chlorotoluene	17.64	91	277805	23.90 ug/L	96
72)	4-Chlorotoluene	17.75	91	264433	23.27 ug/L	100
73)	1,3,5-Trimethylbenzene	17.90	105	319571	24.20 ug/L	98
74)	tert-Butylbenzene	18.30	119	291715	24.73 ug/L	96
75)	1,2,4-Trimethylbenzene	18.45	105	314606	25.18 ug/L	96
76)	sec-Butylbenzene	18.61	105	453526	23.76 ug/L	99
77)	1,3-Dichlorobenzene	18.72	146	169233	22.54 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	166749	22.65 ug/L	98
79)	p-Isopropyltoluene	18.86	119	356670	24.94 ug/L	97
80)	1,2-Dichlorobenzene	19.27	146	143516	23.47 ug/L	97
81)	n-Butylbenzene	19.39	91	306758	22.37 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	9598	31.47 ug/L	93
83)	1,2,4-Trichlorobenzene	21.50	180	81229	24.78 ug/L	98
84)	Napthalene	21.83	128	140934	26.88 ug/L	100
85)	Hexachlorobutadiene	21.89	225	70163	31.53 ug/L	97
86)	1,2,3-Trichlorobenzene	22.08	180	68401	25.77 ug/L	96

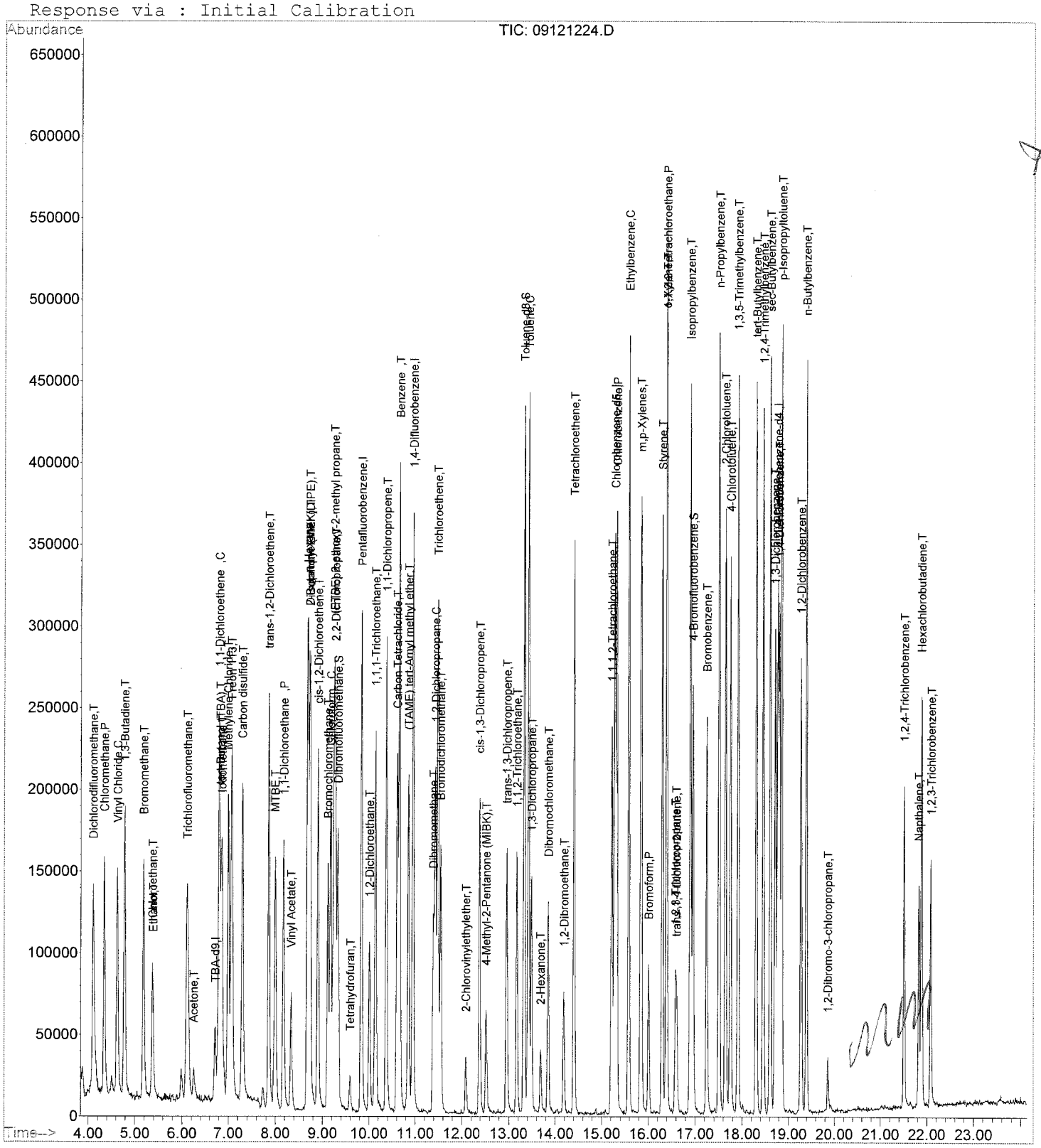
MM

(#) = qualifier out of range (m) = manual integration
09121224.D 081012.M Thu Sep 13 06:45:50 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:45 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	154	-0.01
2	T	Ethanol	0.108	0.092#	14.8	140	0.00
3	T	tert-Butanol (TBA)	1.170	1.110	5.1	143	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
5	T	Dichlorodifluoromethane	0.917	0.883	3.7	94	0.00
6	P	Chloromethane	0.893	0.737	17.5	82	-0.01
7	C	Vinyl Chloride	0.817	0.780	4.5	93	0.00
8	T	1,3-Butadiene	0.442	0.380	14.0	83	0.00
9	T	Bromomethane	0.499	0.484	3.0	98	0.00
10	T	Chloroethane	0.405	0.380	6.2	92	0.00
11	T	Trichlorofluoromethane	0.722	0.771	-6.8	105	0.00
12	T	Acetone	0.105	0.103	1.9	88	-0.01
13	T	Iodomethane	0.844	0.830	1.7	99	0.00
14	C	1,1-Dichloroethene	0.503	0.456	9.3	96	-0.01
15	T	Methylene Chloride	0.448	0.443	1.1	102	-0.01
16	T	Freon 113	0.521	0.509	2.3	97	0.00
17	T	Carbon disulfide	1.635	1.492	8.7	89	0.00
18	T	trans-1,2-Dichloroethene	0.583	0.482	17.3	85	-0.01
19	T	MTBE	0.824	0.782	5.1	95	-0.01
20	P	1,1-Dichloroethane	0.905	0.761	15.9	85	0.00
21	T	Vinyl Acetate	0.642	0.506	21.2	79	0.00
22		n-Hexane	0.143	0.116	18.9	84	0.00
23	T	2-Butanone (MEK)	0.036	0.028#	22.2	72	-0.01
24	T	Diisopropyl Ether (DIPE)	1.528	1.195	21.8	80	0.00
25	T	cis-1,2-Dichloroethene	0.531	0.443	16.6	86	0.00
26	T	Bromochloromethane	0.211	0.199	5.7	95	0.00
27	C	Chloroform	0.792	0.703	11.2	88	0.00
28	T	2,2-Dichloropropane	0.599	0.606	-1.2	103	0.00
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	0.958	13.1	89	0.00
30	S	Dibromofluoromethane	0.437	0.434	0.7	100	0.00
31	T	Tetrahydrofuran	0.033	0.029#	12.1	100	0.00
32	T	1,2-Dichloroethane	0.382	0.390	-2.1	103	0.00
33	T	1,1,1-Trichloroethane	0.663	0.679	-2.4	99	0.00
34	T	(TAME) tert-Amyl methyl eth	0.889	0.777	12.6	89	0.00
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
36	T	1,1-Dichloropropene	0.535	0.451	15.7	83	0.00
37	T	Carbon Tetrachloride	0.419	0.467	-11.5	108	0.00
38	T	Benzene	1.276	1.108	13.2	84	0.00
39	T	Dibromomethane	0.151	0.143	5.3	93	0.00
40	C	1,2-Dichloropropane	0.304	0.257	15.5	82	0.00
41	T	Trichloroethene	0.358	0.314	12.3	84	0.00
42	T	Bromodichloromethane	0.350	0.347	0.9	93	-0.01
43	T	2-Chlorovinylethylether	0.115	0.053#	53.9#	45#	0.00
44	T	cis-1,3-Dichloropropene	0.408	0.375	8.1	86	0.00
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.158	13.7	89	0.00
46	T	trans-1,3-Dichloropropene	0.310	0.296	4.5	91	0.00
47	T	1,1,2-Trichloroethane	0.177	0.172	2.8	90	0.00
48	S	Toluene-d8	0.987	0.965	2.2	94	0.00

(#) = Out of Range

✓ 9/13/12

MM 9/13/12

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121224.D Vial: 2
Acq On : 12 Sep 2012 4:45 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.642	11.6	86	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
51	T	1,3-Dichloropropane	0.444	0.388	12.6	86	0.00
52	T	2-Hexanone	0.186	0.147	21.0	76	0.00
53	T	Dibromochloromethane	0.322	0.352	-9.3	106	0.00
54	T	1,2-Dibromoethane	0.270	0.246	8.9	89	0.00
55	T	Tetrachloroethene	0.440	0.395	10.2	87	0.00
56	T	1,1,1,2-Tetrachloroethane	0.353	0.340	3.7	91	0.00
57	P	Chlorobenzene	1.026	0.936	8.8	90	0.00
58	C	Ethylbenzene	1.793	1.610	10.2	87	0.00
59	T	m,p-Xylenes	0.684	0.640	6.4	90	0.00
60	T	Styrene	0.916	0.841	8.2	86	0.00
61	T	o-Xylene	0.632	0.553	12.5	86	0.00
62	S	4-Bromofluorobenzene	0.386	0.394	-2.1	104	0.00
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
64	P	Bromoform	0.430	0.492	-14.4	106	0.00
65	P	1,1,2,2-Tetrachloroethane	0.672	0.643	4.3	90	0.00
66	T	1,2,3-Trichloropropane	0.162	0.165	-1.9	97	0.00
67	T	trans-1,4-Dichloro-2-butene	0.150	0.127	15.3	77	0.00
68	T	Isopropylbenzene	3.734	3.486	6.6	88	0.00
69	T	Bromobenzene	0.910	0.900	1.1	90	0.00
70	T	n-Propylbenzene	4.740	4.355	8.1	85	0.00
71	T	2-Chlorotoluene	2.563	2.450	4.4	91	0.00
72	T	4-Chlorotoluene	2.506	2.332	6.9	89	0.00
73	T	1,3,5-Trimethylbenzene	2.912	2.819	3.2	88	0.00
74	T	tert-Butylbenzene	2.601	2.573	1.1	90	0.00
75	T	1,2,4-Trimethylbenzene	2.755	2.775	-0.7	93	0.00
76	T	sec-Butylbenzene	4.209	4.000	5.0	86	0.00
77	T	1,3-Dichlorobenzene	1.656	1.493	9.8	84	0.00
78	T	1,4-Dichlorobenzene	1.623	1.471	9.4	85	0.00
79	T	p-Isopropyltoluene	3.154	3.146	0.3	89	0.00
80	T	1,2-Dichlorobenzene	1.348	1.266	6.1	86	0.00
81	T	n-Butylbenzene	3.024	2.706	10.5	79	0.00
82	T	1,2-Dibromo-3-chloropropane	0.063	0.085#	-34.9#	104	0.00
83	T	1,2,4-Trichlorobenzene	0.723	0.716	1.0	85	0.00
84	T	Napthalene	1.156	1.243	-7.5	92	0.00
85	T	Hexachlorobutadiene	0.549	0.619	-12.8	98	0.00
86	T	1,2,3-Trichlorobenzene	0.602	0.603	-0.2	88	0.00

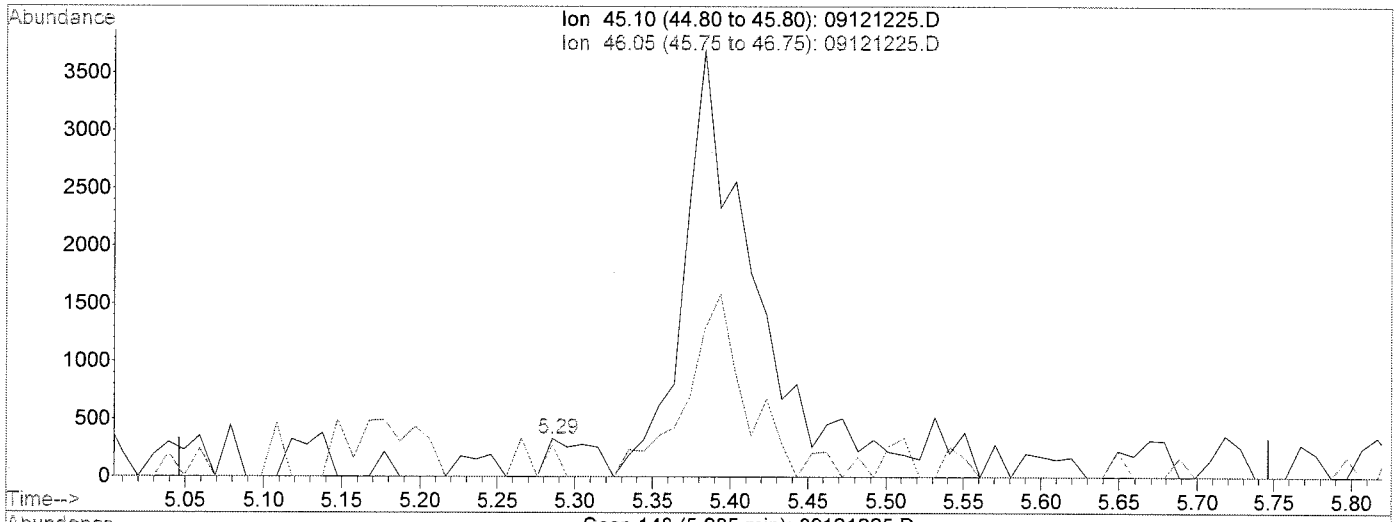
MM

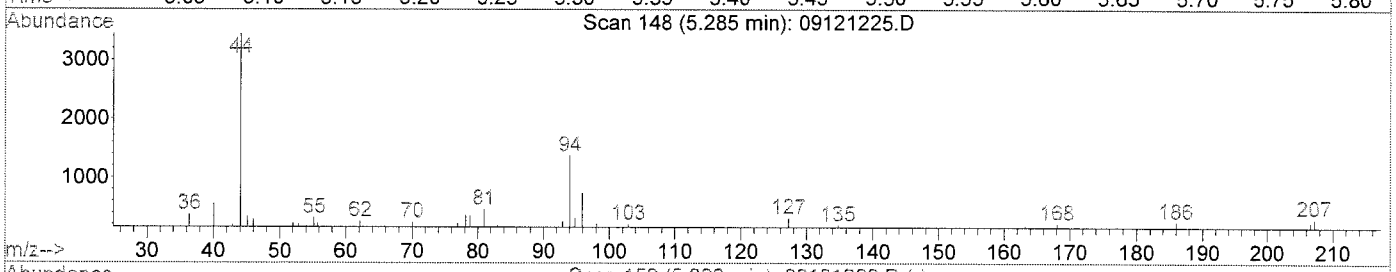
(#) = Out of Range SPCC's out = 0 CCC's out = 0

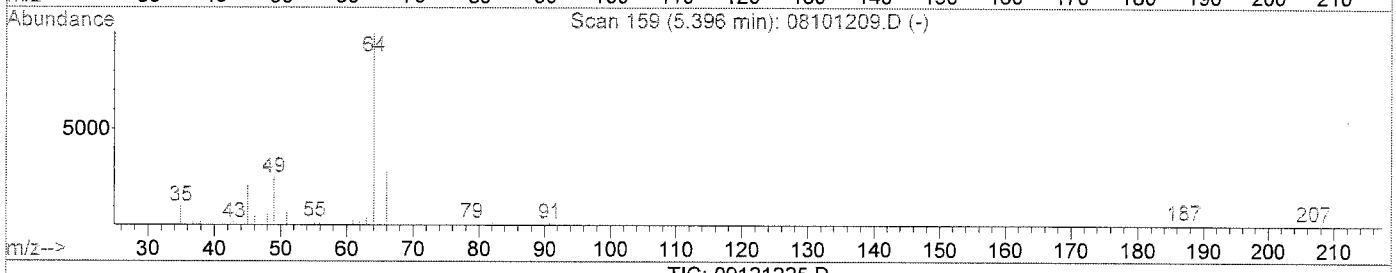
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:55 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121225.D

(2) Ethanol (T)

5.29min 23.25ug/L

response 661

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	54.61
0.00	0.00	0.00
0.00	0.00	0.00

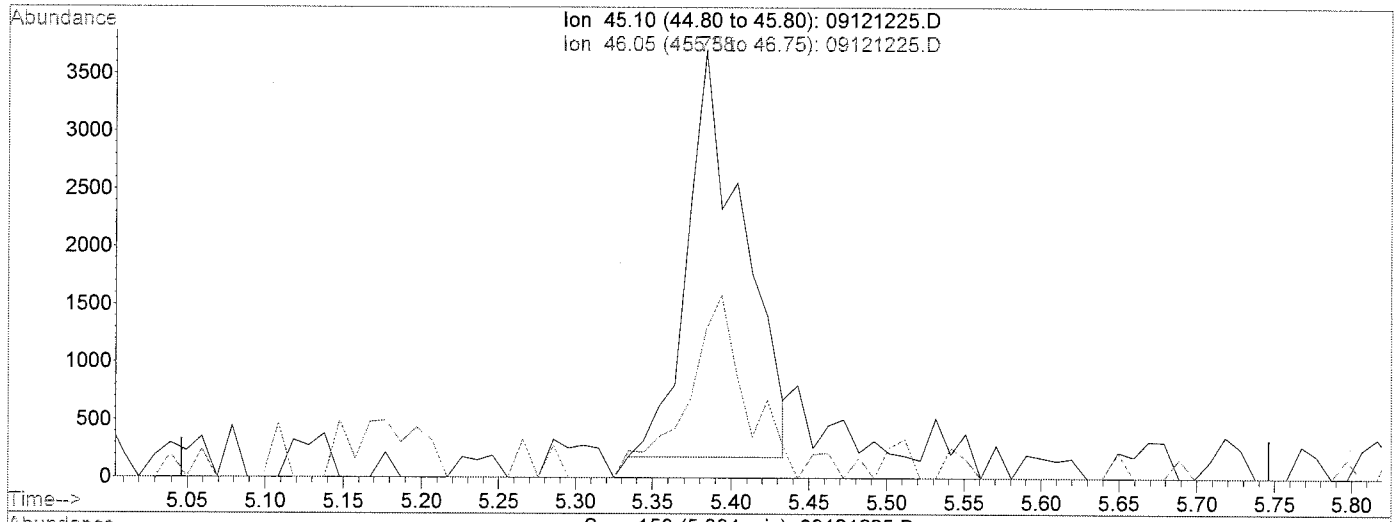
B 9/13/12

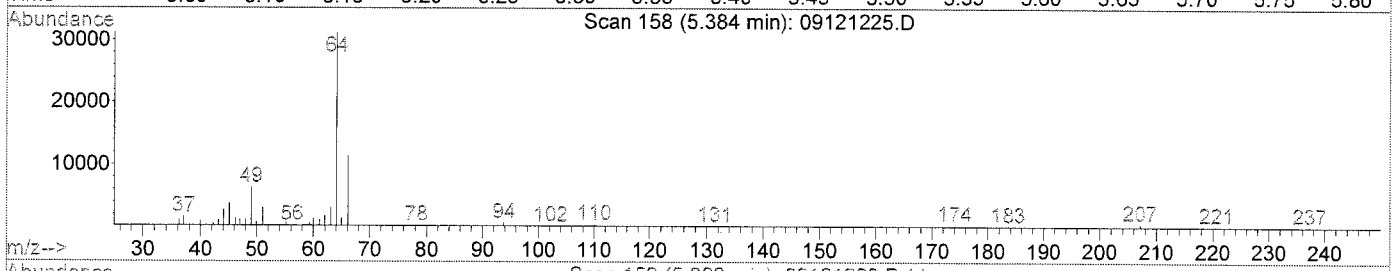
BL MM 9/13/12

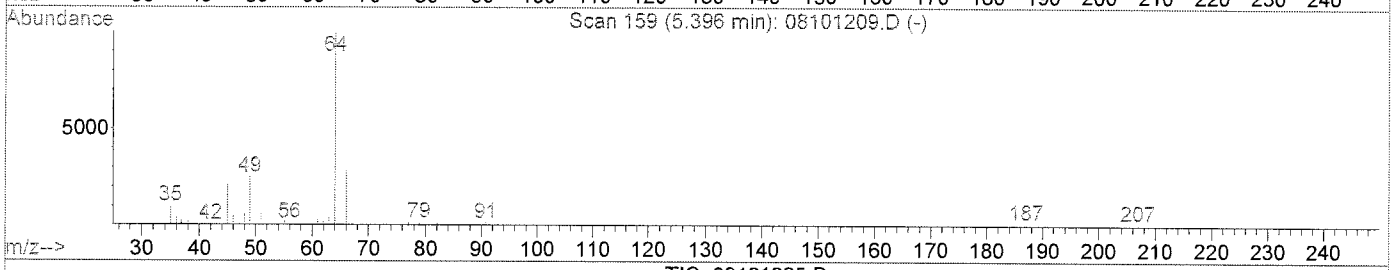
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:55 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121225.D

(2) Ethanol (T)

5.38min 305.66ug/L m

response 8690

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	4.15#
0.00	0.00	0.00
0.00	0.00	0.00

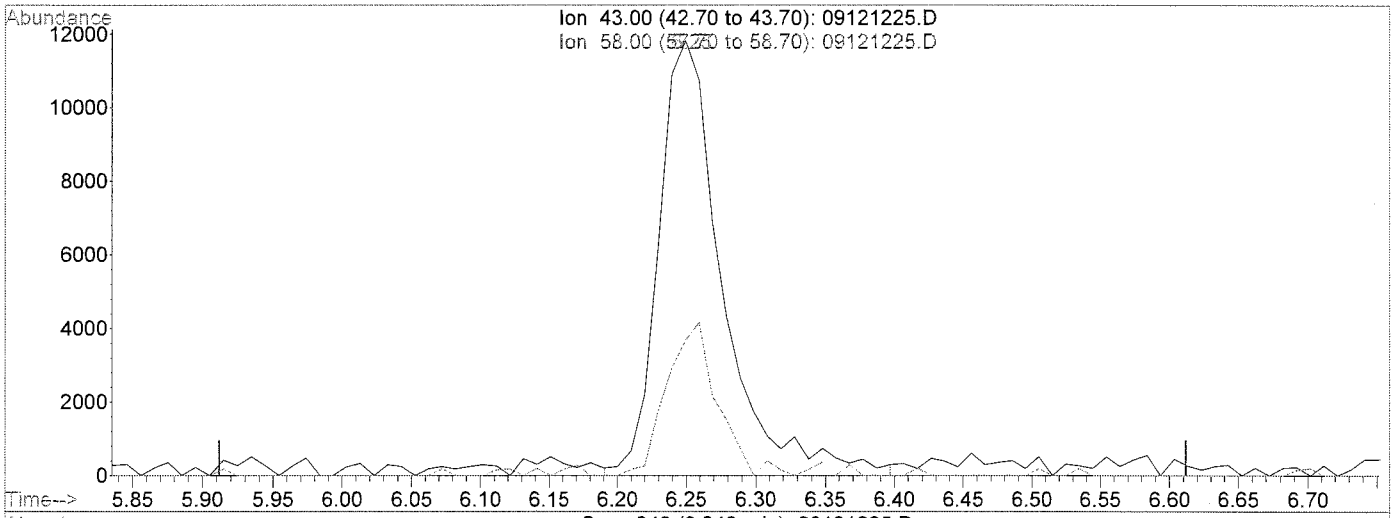
9/13/12

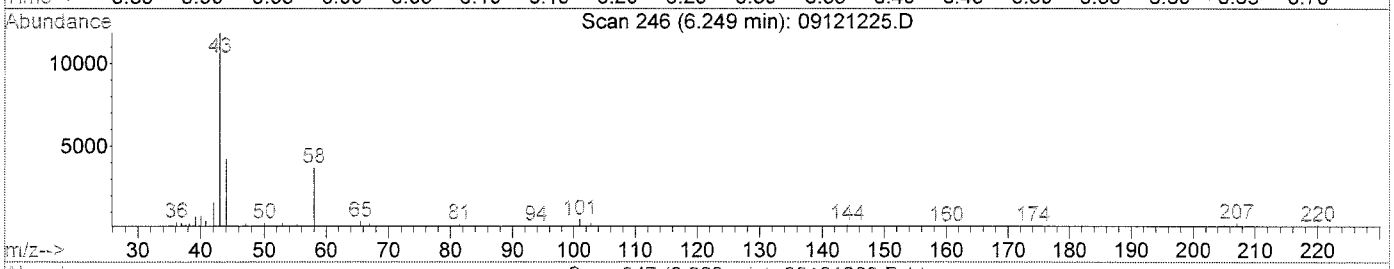
MM 9/13/12

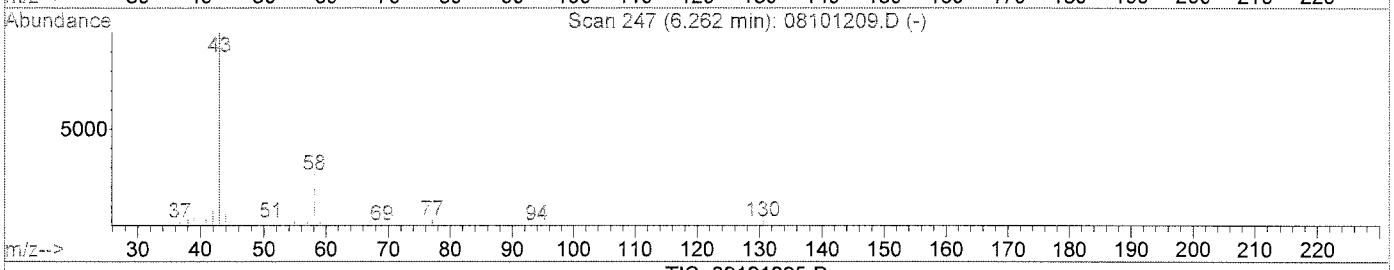
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:55 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121225.D

9/13/12

(12) Acetone (T)

6.25min 34.04ug/L

response 37828

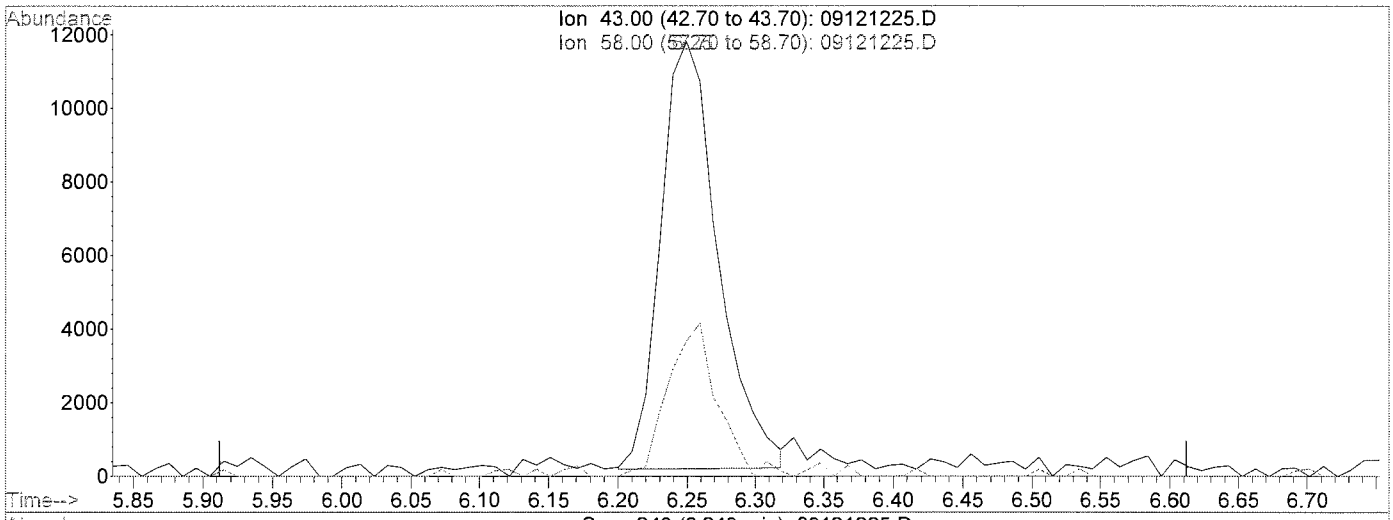
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.86
0.00	0.00	0.00
0.00	0.00	0.00

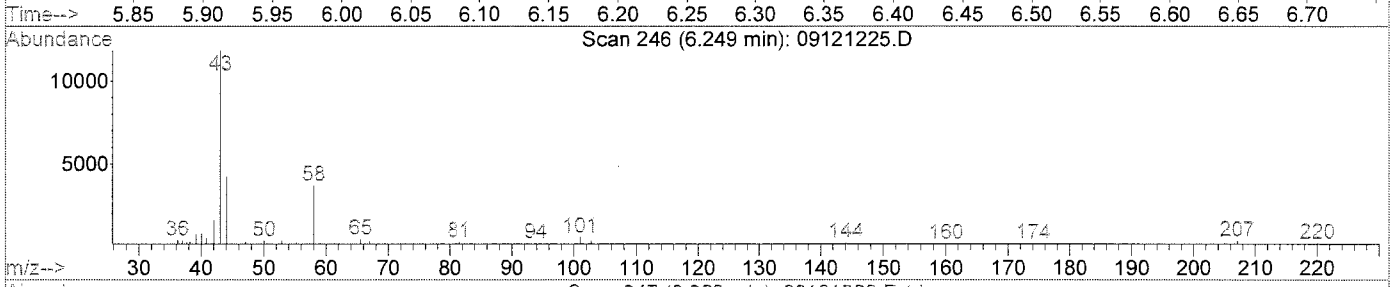
B
DL
MM 9/13/12

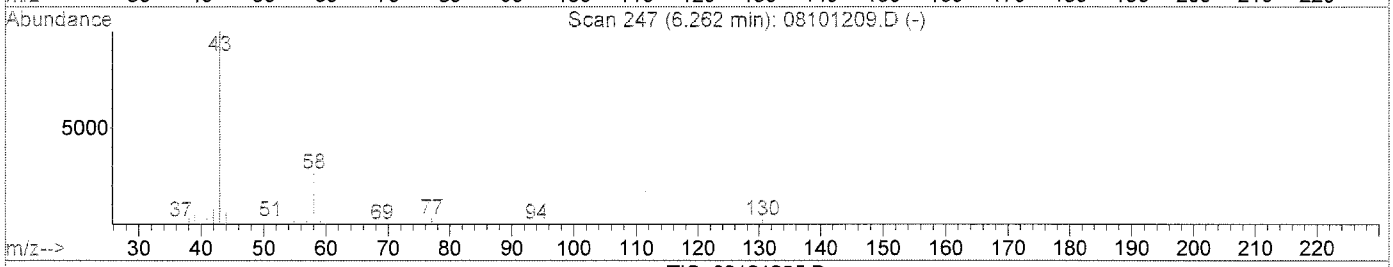
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121225.D

9/13/12

(12) Acetone (T)

6.25min 30.46ug/L m

response 33855

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.12
0.00	0.00	0.00
0.00	0.00	0.00

MNM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52734	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	263984	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	343553	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	247385	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	105510	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	111927	24.24 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.96%	
48) Toluene-d8	13.32	98	335971	24.76 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.04%	
62) 4-Bromofluorobenzene	16.95	95	104236	27.27 ug/L	0.00
Spiked Amount 25.000			Recovery =	109.08%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	8690m	305.66 ug/L	
3) tert-Butanol (TBA)	6.83	59	42026	136.24 ug/L	97
5) Dichlorodifluoromethane	4.11	85	283651	29.28 ug/L	98
6) Chloromethane	4.34	50	233161	24.73 ug/L	97
7) Vinyl Chloride	4.63	62	220089	25.51 ug/L	97
8) 1,3-Butadiene	4.78	54	164732	35.30 ug/L	96
9) Bromomethane	5.19	94	140555	26.68 ug/L	97
10) Chloroethane	5.37	64	99515	23.26 ug/L	99
11) Trichlorofluoromethane	6.10	101	247196	32.42 ug/L	100
12) Acetone	6.25	43	33855m	30.46 ug/L	
13) Iodomethane	6.85	142	251483	28.22 ug/L #	89
14) 1,1-Dichloroethene	6.80	96	135081	25.45 ug/L	99
15) Methylene Chloride	6.99	84	106590	22.56 ug/L	97
16) Freon 113	7.07	101	149641	27.22 ug/L	94
17) Carbon disulfide	7.29	76	447581	25.93 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	130165	21.15 ug/L	97
19) MTBE	7.99	73	188102	21.61 ug/L	99
20) 1,1-Dichloroethane	8.18	63	196076	20.51 ug/L	98
21) Vinyl Acetate	8.33	43	138109	20.39 ug/L	100
22) n-Hexane	8.68	86	31980	21.17 ug/L	83
23) 2-Butanone (MEK)	8.72	72	8956	23.55 ug/L #	72
24) Diisopropyl Ether (DIPE)	8.73	45	309939	19.21 ug/L #	89
25) cis-1,2-Dichloroethene	8.91	96	122446	21.85 ug/L	96
26) Bromochloromethane	9.11	128	45589	20.50 ug/L	92
27) Chloroform	9.17	83	179054	21.42 ug/L	97
28) 2,2-Dichloropropane	9.27	77	166841	26.36 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	243608	20.91 ug/L	98
31) Tetrahydrofuran	9.58	72	5781	16.72 ug/L	85
32) 1,2-Dichloroethane	10.01	62	98242	24.36 ug/L	95
33) 1,1,1-Trichloroethane	10.13	97	181943	25.98 ug/L	97
34) (TAME) tert-Amyl methyl et	10.85	73	191798	20.43 ug/L	98
36) 1,1-Dichloropropene	10.37	75	149347	20.33 ug/L	98
37) Carbon Tetrachloride	10.61	117	172422	29.93 ug/L	96
38) Benzene	10.66	78	392259	22.38 ug/L	99
39) Dibromomethane	11.38	93	49150	23.75 ug/L	96
40) 1,2-Dichloropropane	11.43	63	82503	19.75 ug/L	92

(#) = qualifier out of range (m) = manual integration

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	117359	23.88 ug/L		98
42)	Bromodichloromethane	11.54	83	119255	24.81 ug/L		98
43)	2-Chlorovinylethylether	12.08	63	26414	16.73 ug/L		97
44)	cis-1,3-Dichloropropene	12.38	75	126963	22.65 ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	51174	20.33 ug/L		96
46)	trans-1,3-Dichloropropene	12.95	75	94650	22.20 ug/L		95
47)	1,1,2-Trichloroethane	13.16	97	57025	23.46 ug/L		98
49)	Toluene	13.42	92	237782	23.85 ug/L		98
51)	1,3-Dichloropropane	13.49	76	93845	21.36 ug/L		98
52)	2-Hexanone	13.69	43	39281	21.39 ug/L		98
53)	Dibromochloromethane	13.85	129	78603	24.68 ug/L		99
54)	1,2-Dibromoethane	14.19	107	62240	23.32 ug/L		99
55)	Tetrachloroethene	14.40	164	104273	23.93 ug/L		97
56)	1,1,1,2-Tetrachloroethane	15.21	131	85010	24.34 ug/L		97
57)	Chlorobenzene	15.32	112	238230	23.46 ug/L		100
58)	Ethylbenzene	15.58	91	425967	24.01 ug/L		99
59)	m,p-Xylenes	15.84	106	163160	24.11 ug/L		98
60)	Styrene	16.29	104	210671	23.24 ug/L		98
61)	o-Xylene	16.39	106	151294	24.19 ug/L		96
64)	Bromoform	16.01	173	46301	25.49 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.39	83	63162	22.29 ug/L		97
66)	1,2,3-Trichloropropane	16.59	110	15253	22.33 ug/L		92
67)	trans-1,4-Dichloro-2-buten	16.61	53	11161	16.42 ug/L	#	73
68)	Isopropylbenzene	16.89	105	417673	26.50 ug/L		98
69)	Bromobenzene	17.25	156	92742	24.15 ug/L		96
70)	n-Propylbenzene	17.50	91	492004	24.59 ug/L		98
71)	2-Chlorotoluene	17.64	91	269833	24.95 ug/L		96
72)	4-Chlorotoluene	17.75	91	252450	23.87 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	315397	25.66 ug/L		96
74)	tert-Butylbenzene	18.30	119	302551	27.56 ug/L		97
75)	1,2,4-Trimethylbenzene	18.46	105	293645	25.26 ug/L		97
76)	sec-Butylbenzene	18.60	105	434824	24.48 ug/L		99
77)	1,3-Dichlorobenzene	18.71	146	159122	22.77 ug/L		96
78)	1,4-Dichlorobenzene	18.81	146	155037	22.63 ug/L		97
79)	p-Isopropyltoluene	18.86	119	331611	24.92 ug/L		98
80)	1,2-Dichlorobenzene	19.27	146	134006	23.55 ug/L		99
81)	n-Butylbenzene	19.39	91	306031	23.98 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.85	75	7849	27.50 ug/L		96
83)	1,2,4-Trichlorobenzene	21.51	180	78287	25.66 ug/L		95
84)	Napthalene	21.82	128	119931	24.57 ug/L		99
85)	Hexachlorobutadiene	21.88	225	70469	34.25 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	61521	24.86 ug/L		99

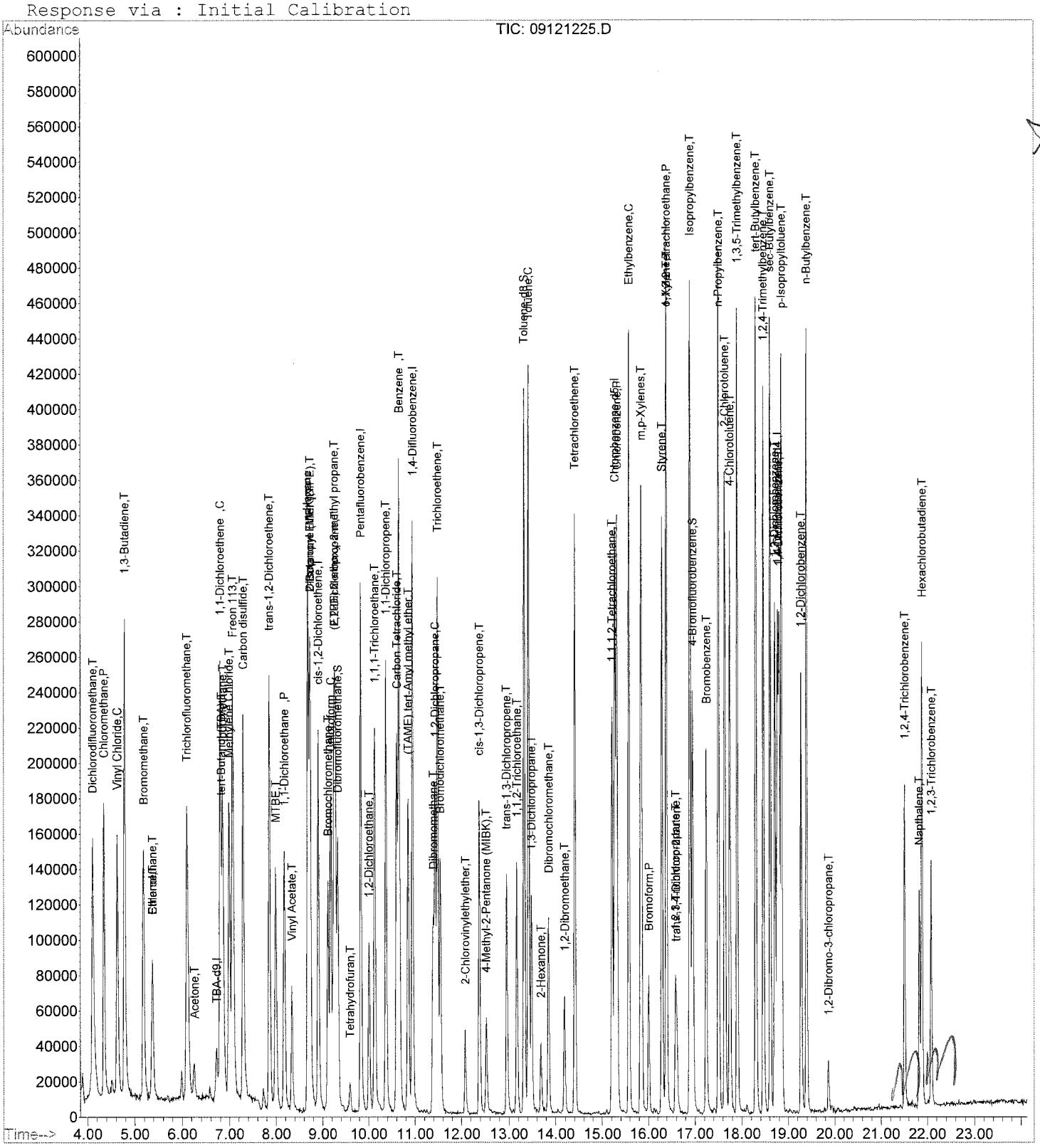
MM

(#) = qualifier out of range (m) = manual integration
09121225.D 081012.M Thu Sep 13 06:56:19 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121225.D Vial: 3
Acq On : 12 Sep 2012 5:17 pm Operator: MNM
Sample : 12I0394-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: 081012.RES

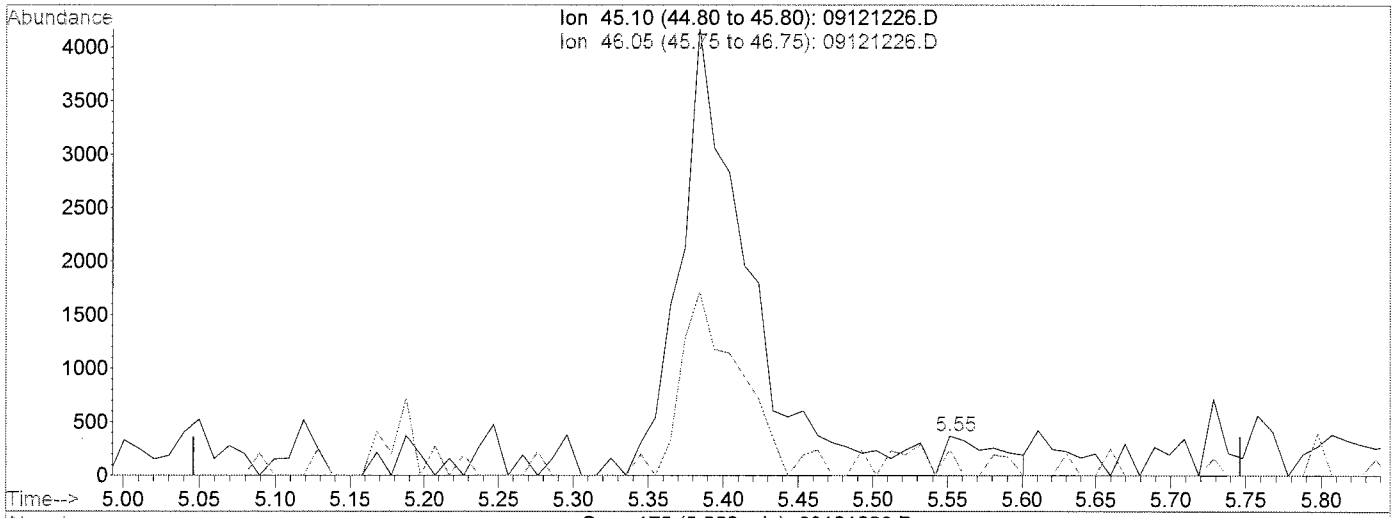
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

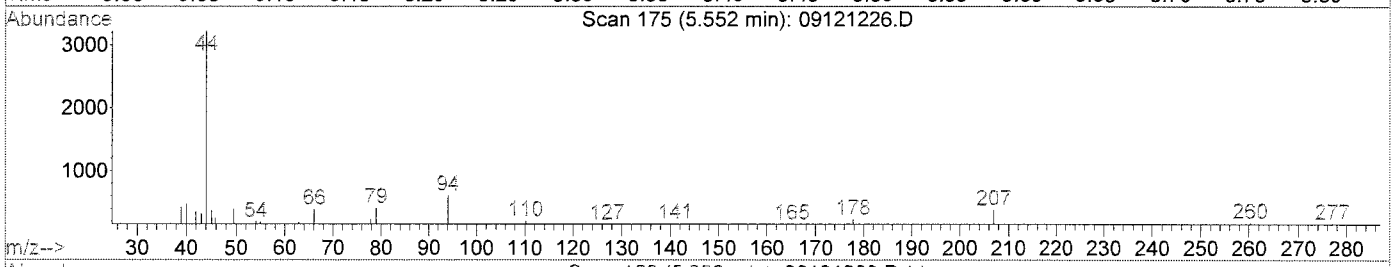


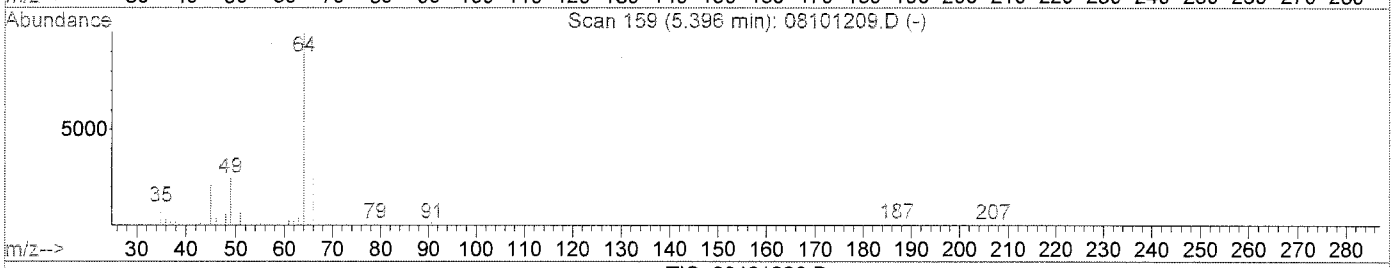
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121226.D

(2) Ethanol (T)

5.55min 27.26ug/L

response 937

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	60.30
0.00	0.00	0.00
0.00	0.00	0.00

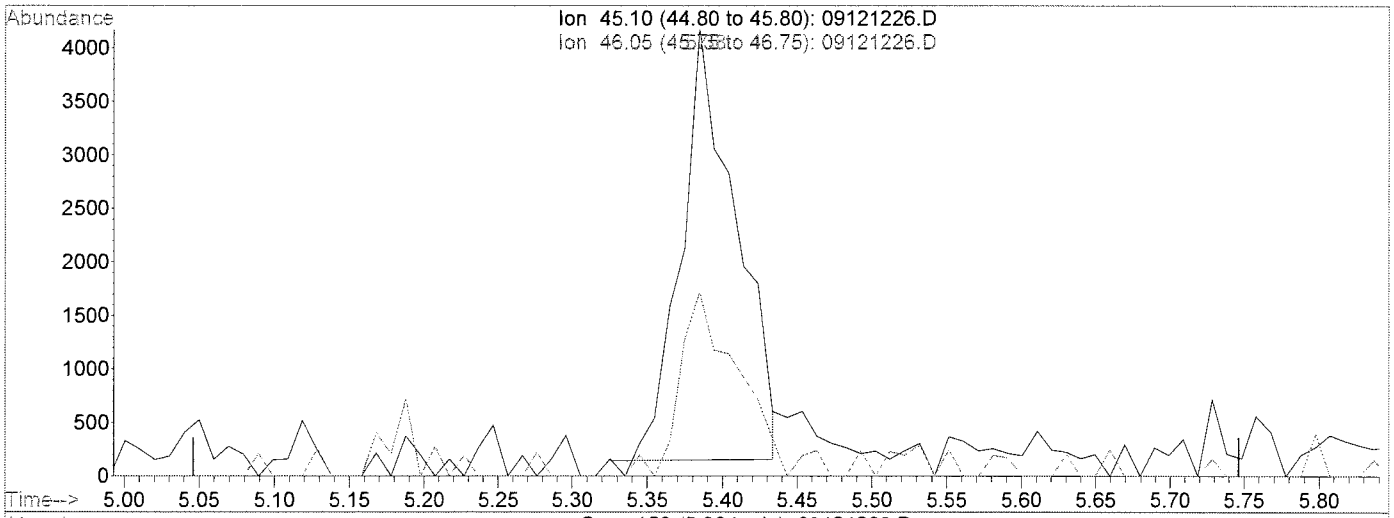
9/13/12

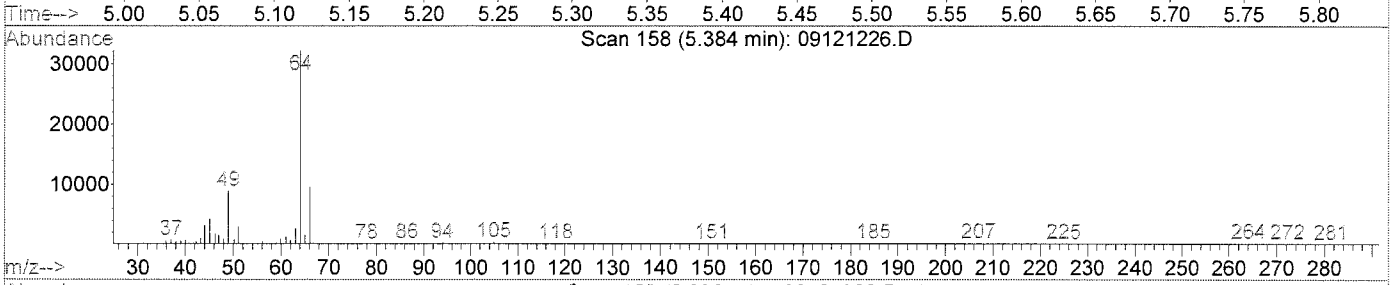
BL mm 9/13/12

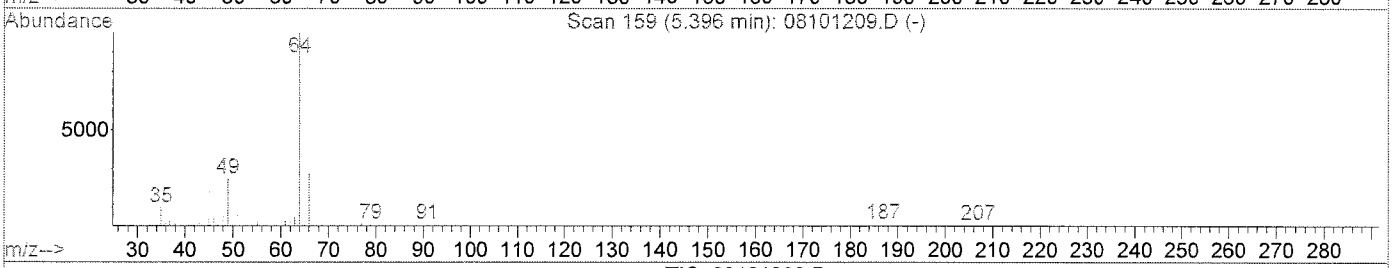
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121226.D

(2) Ethanol (T)

5.38min 298.29ug/L m

response 10254

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	5.51#
0.00	0.00	0.00
0.00	0.00	0.00

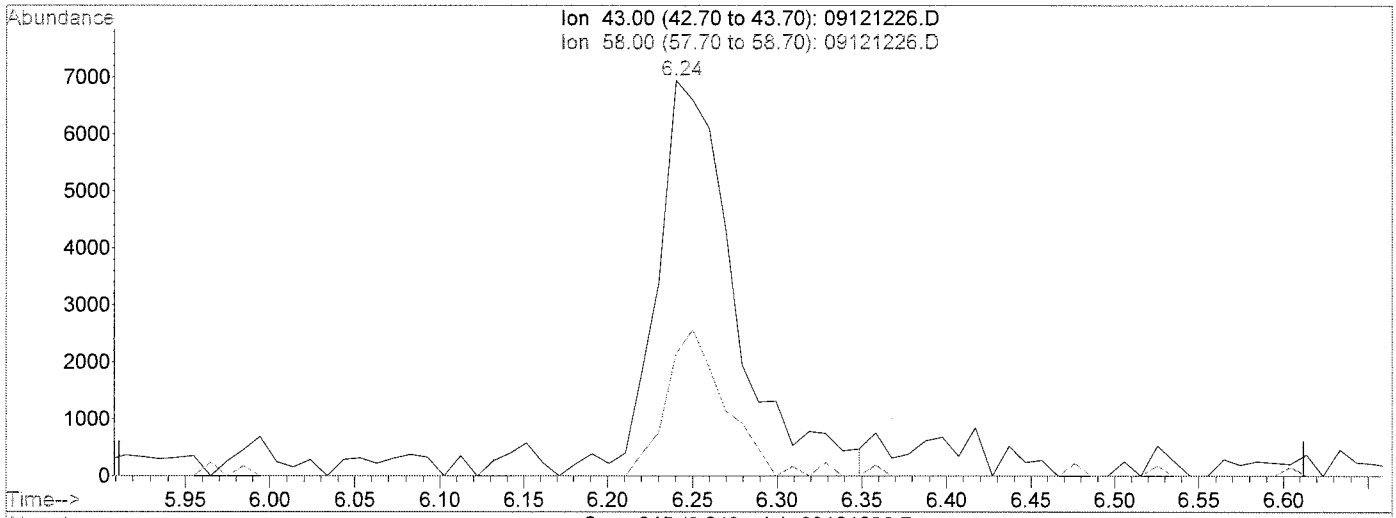
✓9/13/12

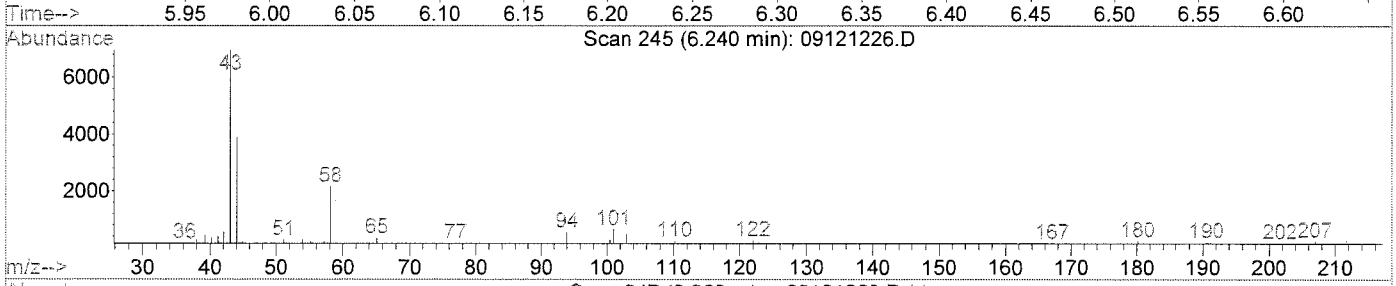
MM 9/13/12

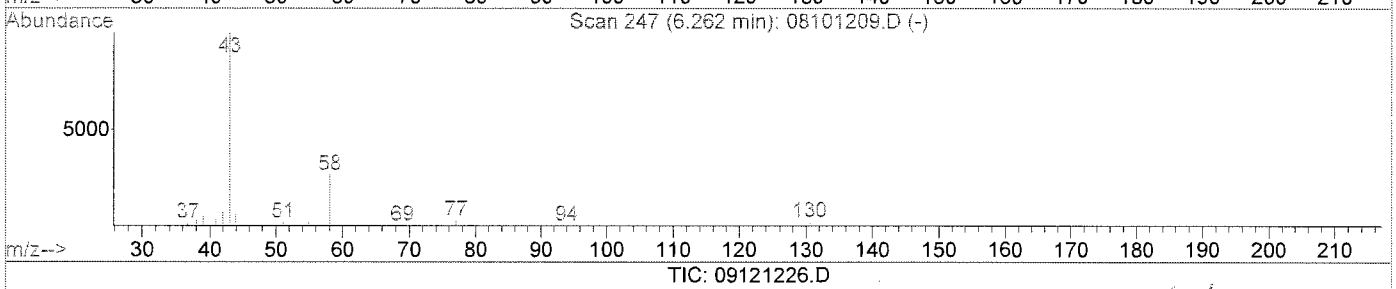
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121226.D

9/13/12

(12) Acetone (T)

6.24min 21.03ug/L

response 22381

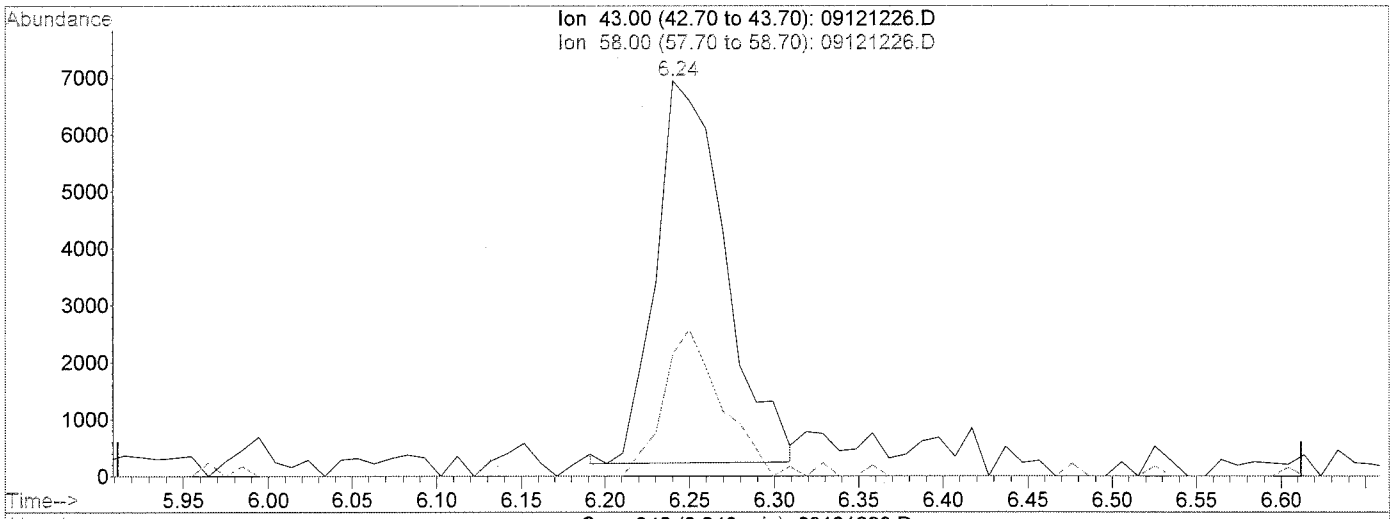
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.67
0.00	0.00	0.00
0.00	0.00	0.00

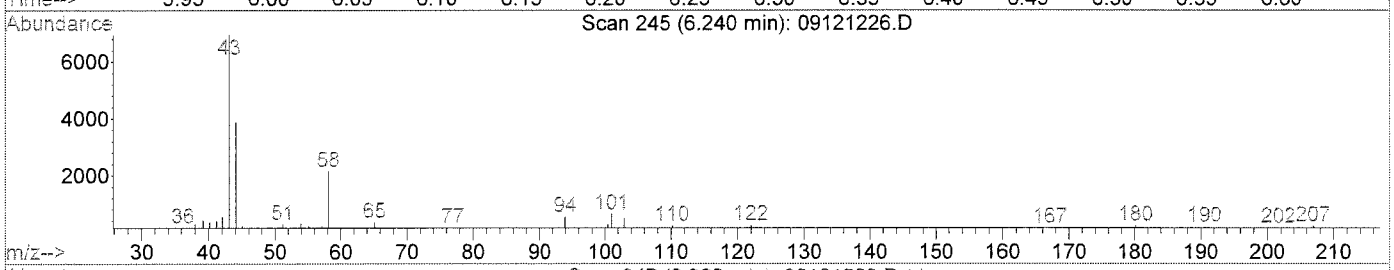
MM 9/13/12

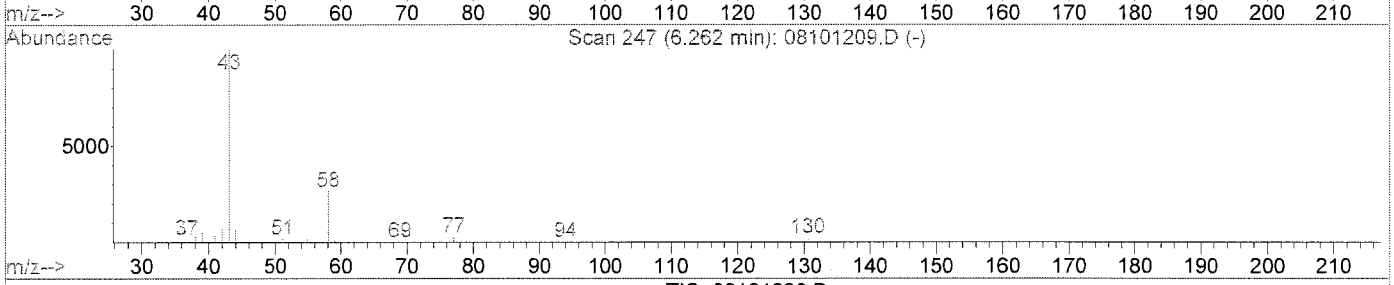
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121226.D

(12) Acetone (T)

6.24min 17.80ug/L m

response 18943

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.69
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/13/12

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	63762	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	252800	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.95	114	338362	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	241147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	106127	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	110692	25.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.16%	
48) Toluene-d8	13.32	98	351360	26.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.16%	
62) 4-Bromofluorobenzene	16.95	95	98004	26.30 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.20%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	10254m	298.29 ug/L	
3) tert-Butanol (TBA)	6.83	59	54646	146.51 ug/L	99
5) Dichlorodifluoromethane	4.11	85	271558	29.27 ug/L	97
6) Chloromethane	4.34	50	233181	25.83 ug/L	98
7) Vinyl Chloride	4.63	62	204972	24.81 ug/L	99
8) 1,3-Butadiene	4.78	54	158497	35.47 ug/L	97
9) Bromomethane	5.19	94	132997	26.36 ug/L	97
10) Chloroethane	5.37	64	101656	24.81 ug/L	99
11) Trichlorofluoromethane	6.10	101	239736	32.83 ug/L	100
12) Acetone	6.24	43	18943m	17.80 ug/L	
13) Iodomethane	6.85	142	256240	30.02 ug/L	92
14) 1,1-Dichloroethene	6.80	96	132394	26.05 ug/L	99
15) Methylene Chloride	6.99	84	109991	24.31 ug/L	95
16) Freon 113	7.07	101	149725	28.44 ug/L	95
17) Carbon disulfide	7.29	76	439999	26.62 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	140484	23.83 ug/L	97
19) MTBE	7.99	73	205174	24.62 ug/L	98
20) 1,1-Dichloroethane	8.17	63	198551	21.69 ug/L	98
21) Vinyl Acetate	8.34	43	156258	24.08 ug/L	99
22) n-Hexane	8.68	86	32311	22.33 ug/L	80
23) 2-Butanone (MEK)	8.72	72	7584	20.83 ug/L #	35
24) Diisopropyl Ether (DIPE)	8.73	45	330708	21.40 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	123694	23.05 ug/L	99
26) Bromochloromethane	9.11	128	51506	24.18 ug/L	90
27) Chloroform	9.17	83	185011	23.11 ug/L	99
28) 2,2-Dichloropropane	9.27	77	169171	27.91 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	254637	22.83 ug/L	95
31) Tetrahydrofuran	9.58	72	7473	22.57 ug/L #	73
32) 1,2-Dichloroethane	10.01	62	106057	27.46 ug/L	95
33) 1,1,1-Trichloroethane	10.14	97	184502	27.51 ug/L	98
34) (TAME) tert-Amyl methyl et	10.84	73	207226	23.05 ug/L	98
36) 1,1-Dichloropropene	10.37	75	144611	19.99 ug/L	97
37) Carbon Tetrachloride	10.61	117	167727	29.57 ug/L	100
38) Benzene	10.66	78	404114	23.41 ug/L	99
39) Dibromomethane	11.38	93	50787	24.92 ug/L	99
40) 1,2-Dichloropropane	11.42	63	85186	20.71 ug/L #	90

(#) = qualifier out of range (m) = manual integration

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	120986	25.00 ug/L		95
42)	Bromodichloromethane	11.54	83	127347	26.90 ug/L		98
43)	2-Chlorovinylethylether	12.08	63	28056	18.04 ug/L		98
44)	cis-1,3-Dichloropropene	12.38	75	135069	24.47 ug/L		96
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	60643	24.47 ug/L		97
46)	trans-1,3-Dichloropropene	12.95	75	109804	26.15 ug/L		97
47)	1,1,2-Trichloroethane	13.16	97	60886	25.44 ug/L		95
49)	Toluene	13.42	92	240968	24.54 ug/L		96
51)	1,3-Dichloropropane	13.48	76	105856	24.72 ug/L		99
52)	2-Hexanone	13.69	43	36220	20.24 ug/L	#	84
53)	Dibromochloromethane	13.85	129	83960	27.04 ug/L		99
54)	1,2-Dibromoethane	14.18	107	68961	26.50 ug/L		100
55)	Tetrachloroethene	14.40	164	102544	24.14 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.21	131	91153	26.78 ug/L		97
57)	Chlorobenzene	15.32	112	243123	24.56 ug/L		100
58)	Ethylbenzene	15.57	91	433369	25.06 ug/L		98
59)	m,p-Xylenes	15.84	106	164047	24.87 ug/L		98
60)	Styrene	16.29	104	222616	25.20 ug/L		97
61)	o-Xylene	16.39	106	154690	25.37 ug/L		98
64)	Bromoform	16.01	173	50306	27.54 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.38	83	71827	25.20 ug/L		100
66)	1,2,3-Trichloropropane	16.59	110	19721	28.70 ug/L		95
67)	trans-1,4-Dichloro-2-buten	16.62	53	13998	20.22 ug/L	#	81
68)	Isopropylbenzene	16.89	105	421457	26.59 ug/L		98
69)	Bromobenzene	17.25	156	93602	24.24 ug/L		98
70)	n-Propylbenzene	17.50	91	506144	25.15 ug/L		99
71)	2-Chlorotoluene	17.64	91	262750	24.15 ug/L		97
72)	4-Chlorotoluene	17.75	91	261290	24.56 ug/L		96
73)	1,3,5-Trimethylbenzene	17.91	105	321235	25.99 ug/L		96
74)	tert-Butylbenzene	18.30	119	291119	26.37 ug/L		97
75)	1,2,4-Trimethylbenzene	18.46	105	297986	25.48 ug/L		98
76)	sec-Butylbenzene	18.60	105	438608	24.55 ug/L		100
77)	1,3-Dichlorobenzene	18.71	146	168271	23.94 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	159361	23.13 ug/L		96
79)	p-Isopropyltoluene	18.85	119	333598	24.92 ug/L		97
80)	1,2-Dichlorobenzene	19.27	146	139704	24.41 ug/L		99
81)	n-Butylbenzene	19.39	91	311217	24.24 ug/L		96
82)	1,2-Dibromo-3-chloropropan	19.86	75	8471	29.59 ug/L		94
83)	1,2,4-Trichlorobenzene	21.51	180	82544	26.90 ug/L		95
84)	Napthalene	21.82	128	137383	27.99 ug/L		98
85)	Hexachlorobutadiene	21.89	225	69345	33.44 ug/L		98
86)	1,2,3-Trichlorobenzene	22.09	180	68280	27.57 ug/L		96

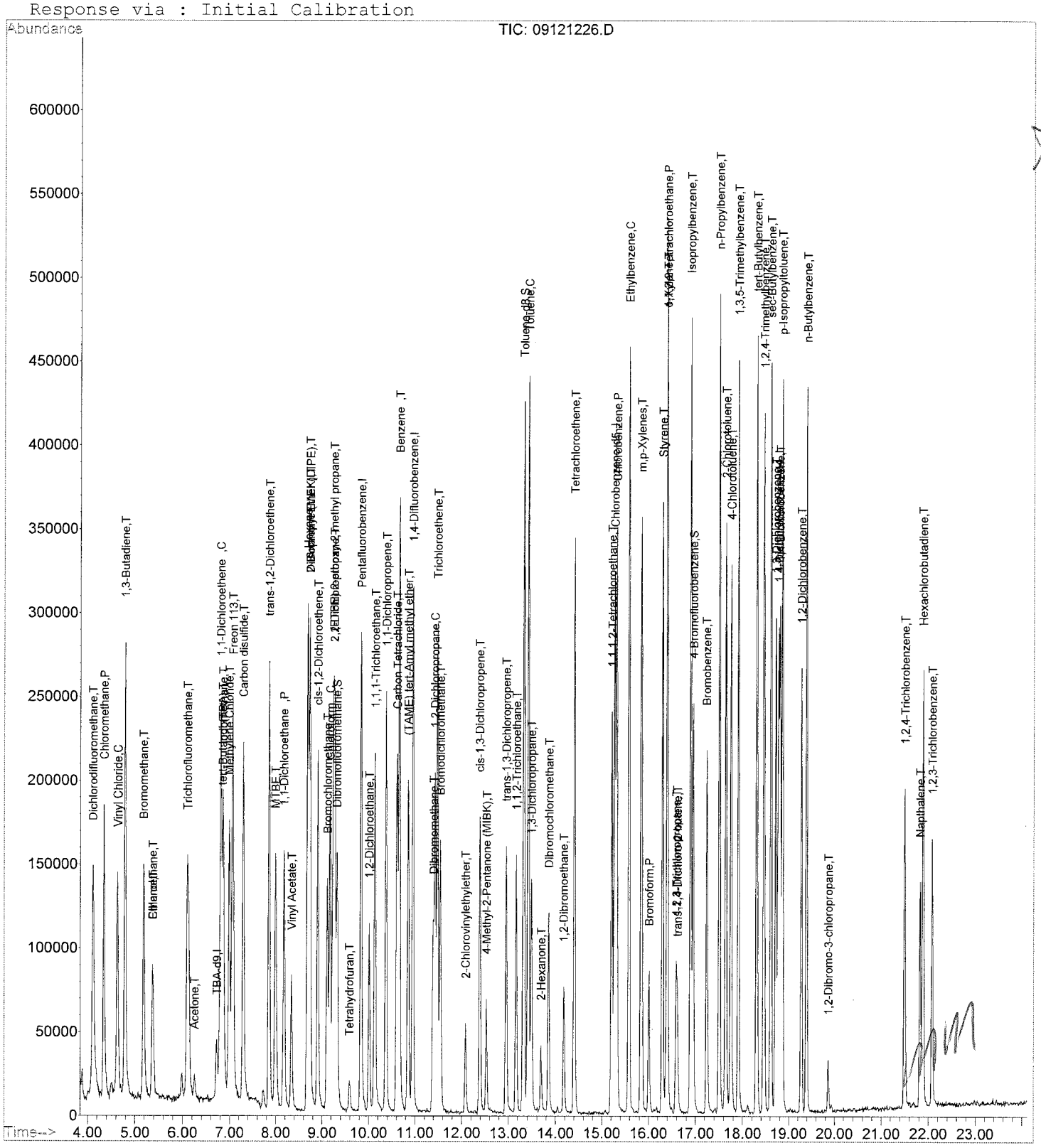
MM

(#) = qualifier out of range (m) = manual integration
09121226.D 081012.M Thu Sep 13 06:57:10 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121226.D Vial: 4
Acq On : 12 Sep 2012 5:51 pm Operator: MNM
Sample : 12I0394-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121227.D Vial: 5
Acq On : 12 Sep 2012 6:25 pm Operator: MNM
Sample : 12I0394-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	68681	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	274146	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.94	114	362359	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	262517	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	101054	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	125036	26.08 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.32%	
48) Toluene-d8	13.32	98	359267	25.11 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.44%	
62) 4-Bromofluorobenzene	16.95	95	104278	25.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.84%	
Target Compounds					Qvalue
2) Ethanol	5.43	45	684	18.47 ug/L #	21
3) tert-Butanol (TBA)	6.74	59	95	0.24 ug/L #	1
9) Bromomethane	5.16	94	1536	0.28 ug/L #	19
10) Chloroethane	5.36	64	526	0.12 ug/L #	8
12) Acetone	6.27	43	3282	2.84 ug/L	93
14) 1,1-Dichloroethene	6.81	96	934	0.17 ug/L #	27
15) Methylene Chloride	7.00	84	2914	0.59 ug/L	84
16) Freon 113	7.05	101	611	0.11 ug/L #	43
17) Carbon disulfide	7.29	76	1617	0.09 ug/L #	1
23) 2-Butanone (MEK)	8.85	72	90	0.23 ug/L #	1
31) Tetrahydrofuran	9.59	72	195	0.54 ug/L #	18
47) 1,1,2-Trichloroethane	13.34	97	2954	1.15 ug/L #	1 WKT
49) Toluene	13.40	92	1102	0.10 ug/L #	64
61) o-Xylene	16.39	106	769	0.12 ug/L #	62
67) trans-1,4-Dichloro-2-buten	16.67	53	138	1.22 ug/L #	82
82) 1,2-Dibromo-3-chloropropan	19.74	75	126	0.63 ug/L #	1
83) 1,2,4-Trichlorobenzene	21.52	180	382	0.13 ug/L #	44
84) Napthalene	21.83	128	1510	0.32 ug/L #	68
85) Hexachlorobutadiene	21.88	225	207	Below Cal #	86
86) 1,2,3-Trichlorobenzene	22.10	180	604	0.10 ug/L #	81

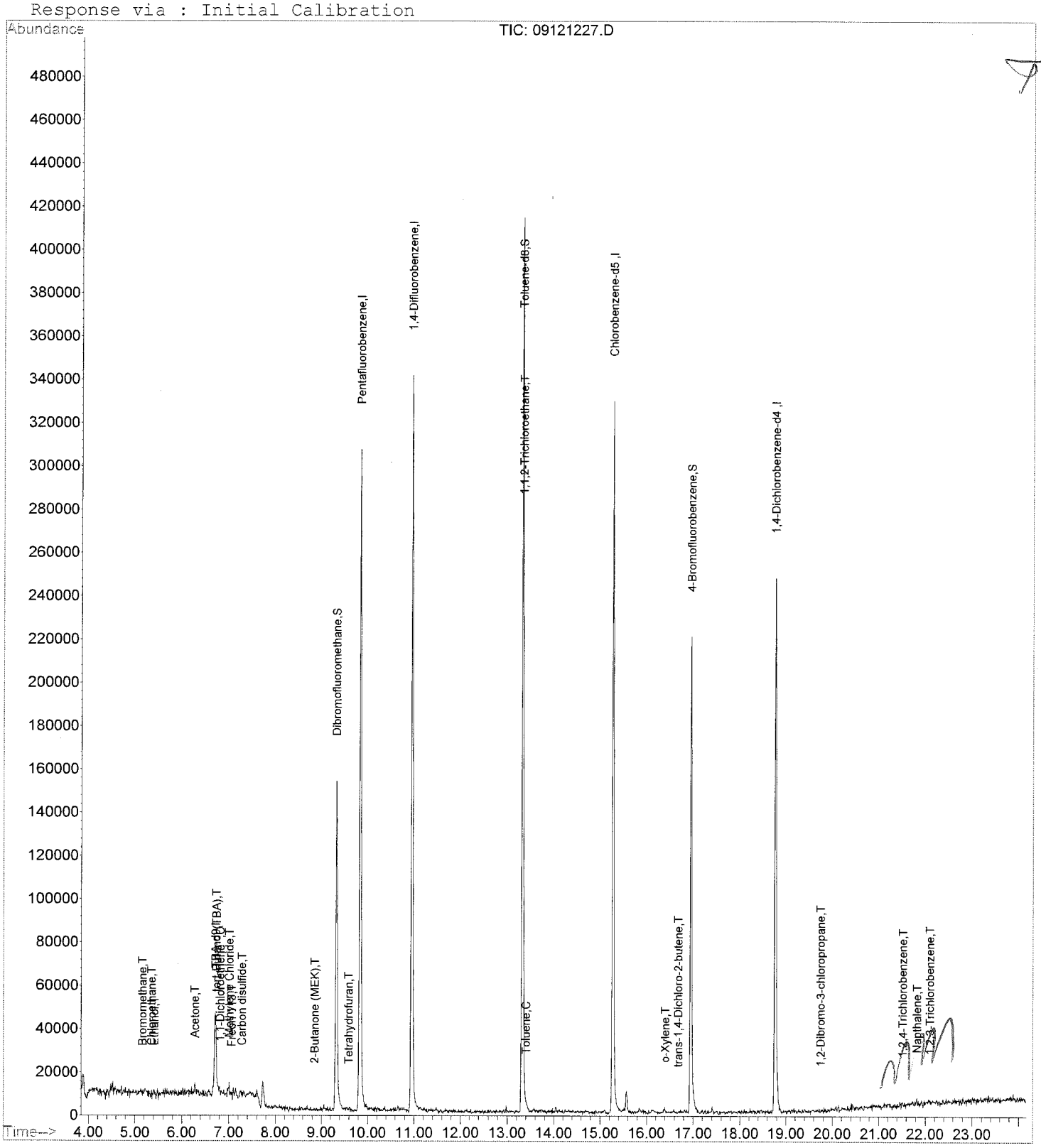
MM 9/13/12

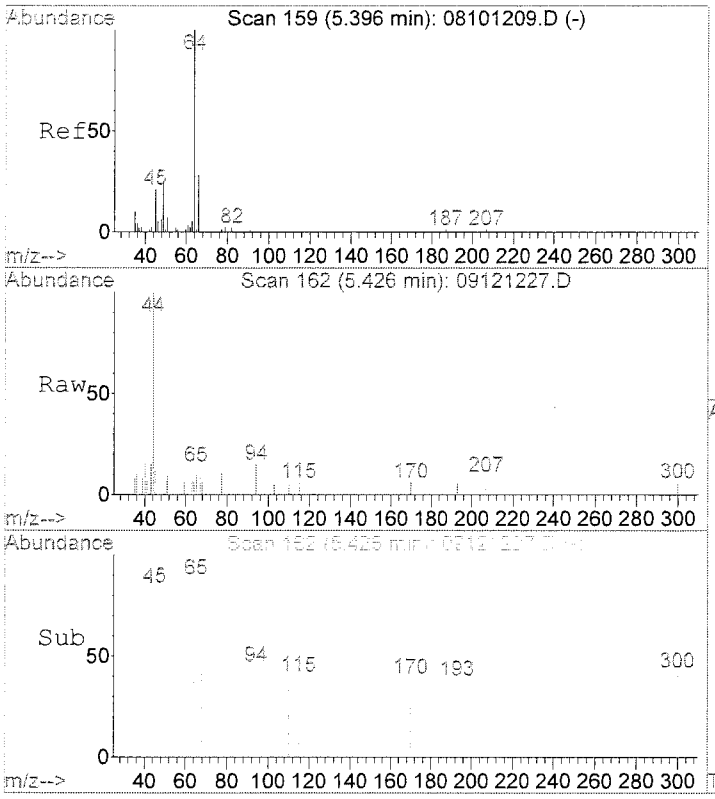
(#) = qualifier out of range (m) = manual integration
09121227.D 081012.M Thu Sep 13 06:57:36 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121227.D Vial: 5
Acq On : 12 Sep 2012 6:25 pm Operator: MNM
Sample : 12I0394-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:57 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

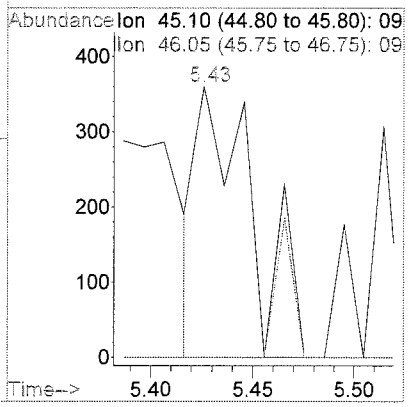


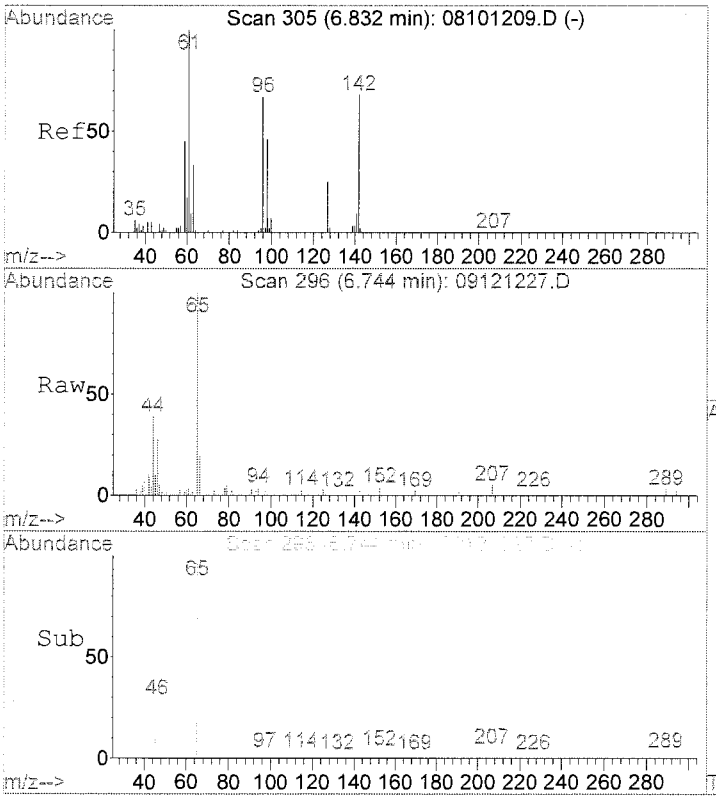


#2
Ethanol
Concen: 18.47 ug/L
RT: 5.43 min Scan# 162
Delta R.T. 0.03 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 45 Resp: 684

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.9	79.9#

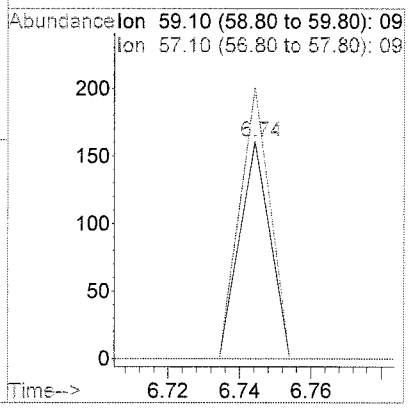


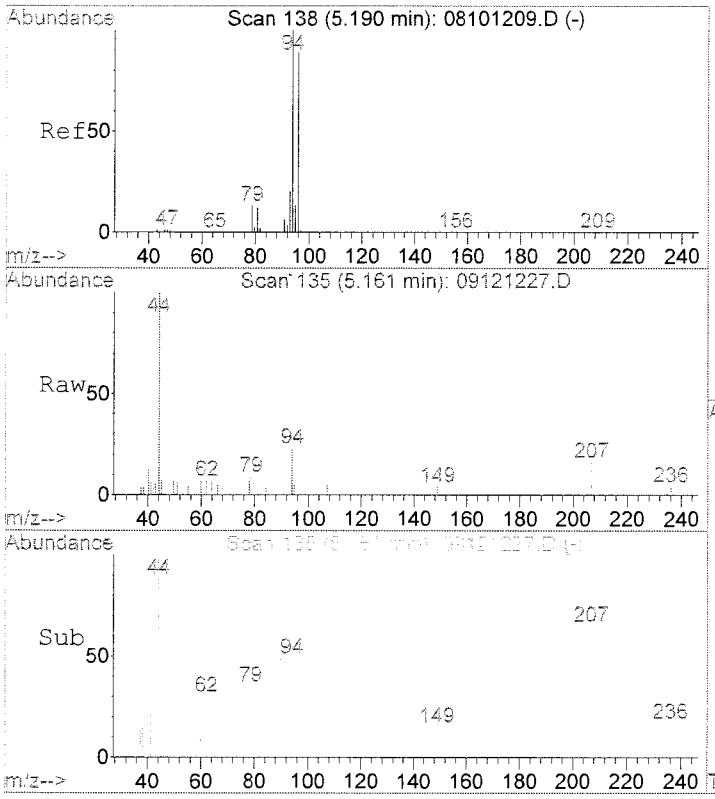


#3
tert-Butanol (TBA)
Concen: 0.24 ug/L
RT: 6.74 min Scan# 296
Delta R.T. -0.09 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 59 Resp: 95

Ion	Ratio	Lower	Upper
59	100		
57	125.3	6.4	9.6#

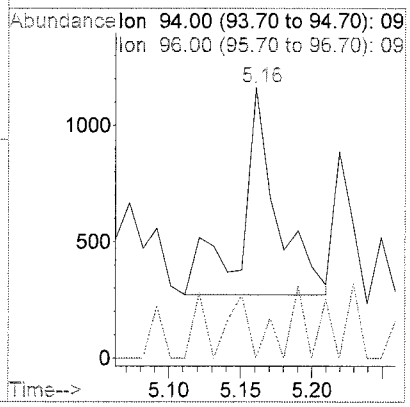


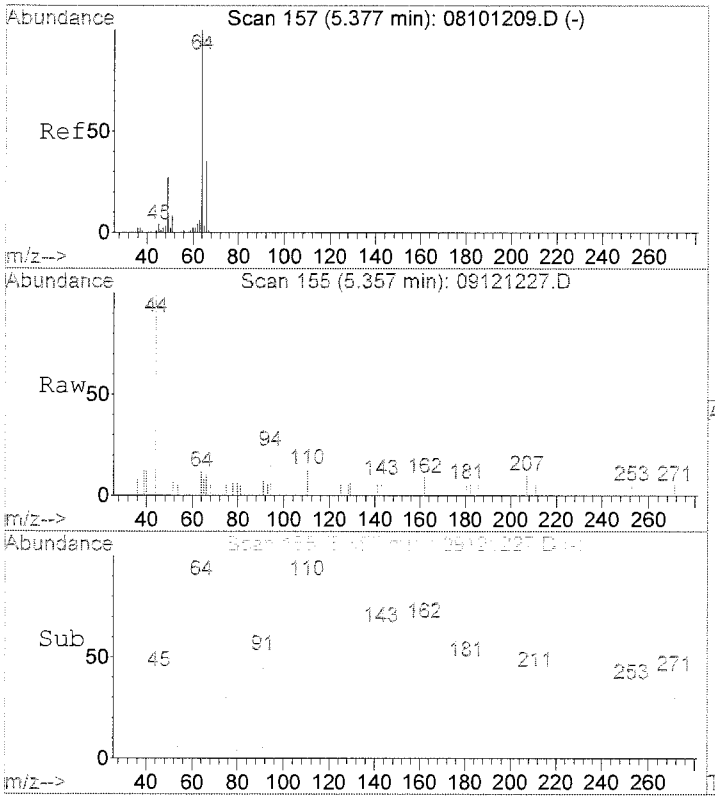


#9
Bromomethane
Concen: 0.28 ug/L
RT: 5.16 min Scan# 135
Delta R.T. -0.03 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 94 Resp: 1536

Ion	Ratio	Lower	Upper
94	100		
96	16.6	75.8	113.6#

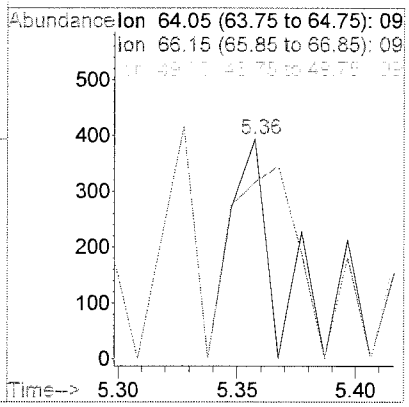


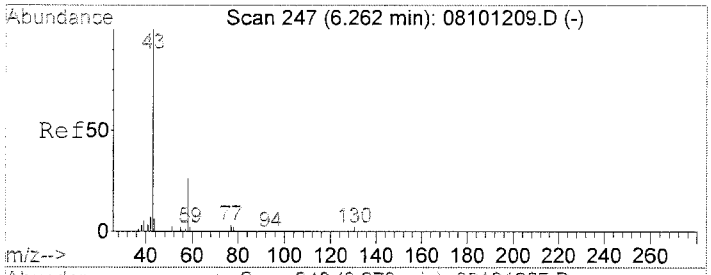


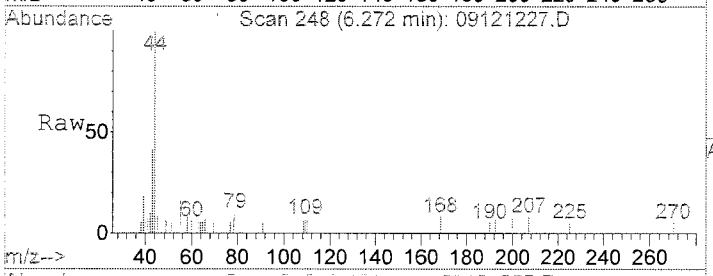
#10
Chloroethane
Concen: 0.12 ug/L
RT: 5.36 min Scan# 155
Delta R.T. -0.02 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

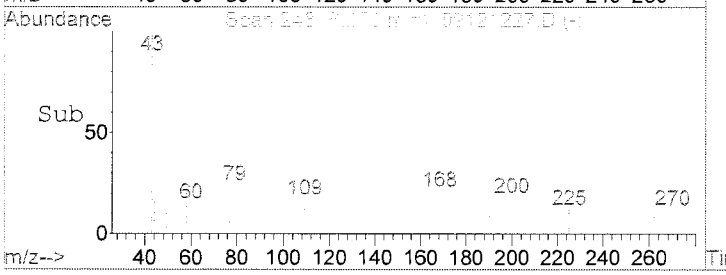
Tgt Ion: 64 Resp: 526

Ion	Ratio	Lower	Upper
64	100		
66	126.0	26.4	39.6#
49	25.9	20.8	31.2





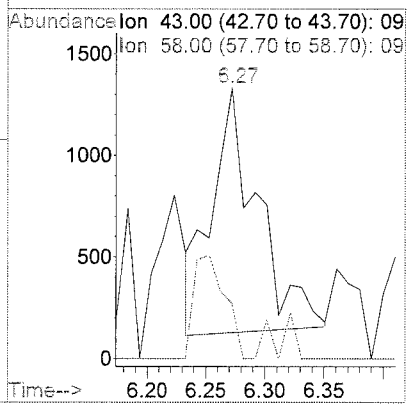




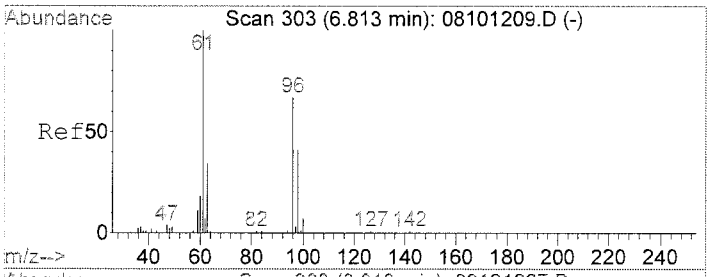
#12
Acetone
Concen: 2.84 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

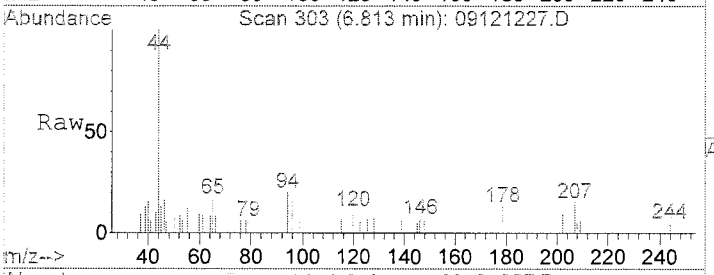
Tgt Ion: 43 Resp: 3282

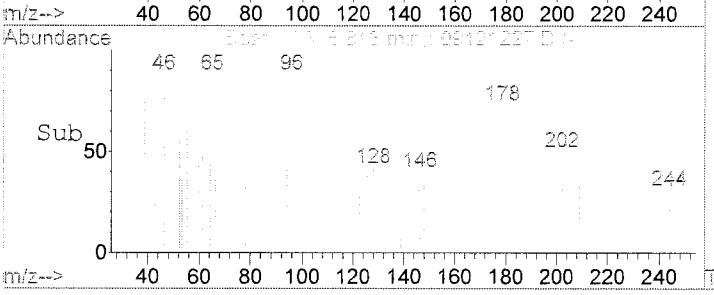
Ion	Ratio	Lower	Upper
43	100		
58	28.7	25.9	38.9



7



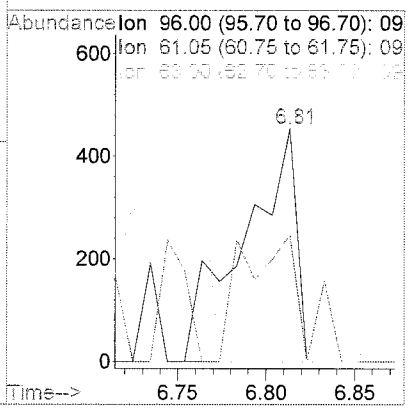




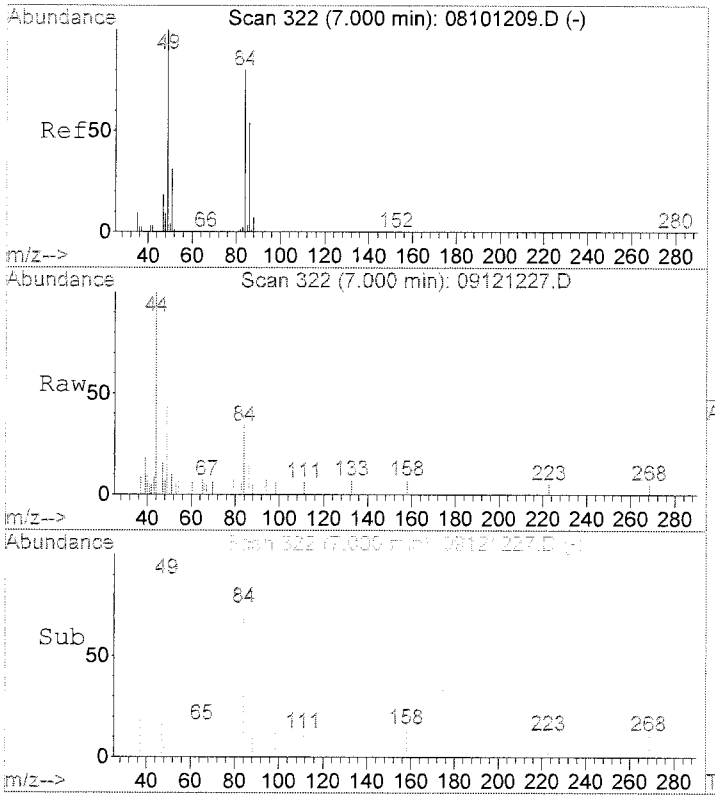
#14
1,1-Dichloroethene
Concen: 0.17 ug/L
RT: 6.81 min Scan# 303
Delta R.T. 0.00 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 96 Resp: 934

Ion	Ratio	Lower	Upper
96	100		
61	63.2	128.0	192.0#
63	0.0	41.2	61.8#



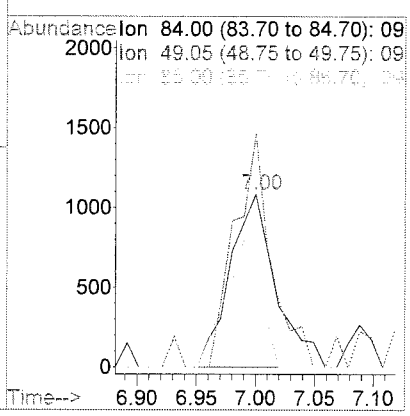
MM

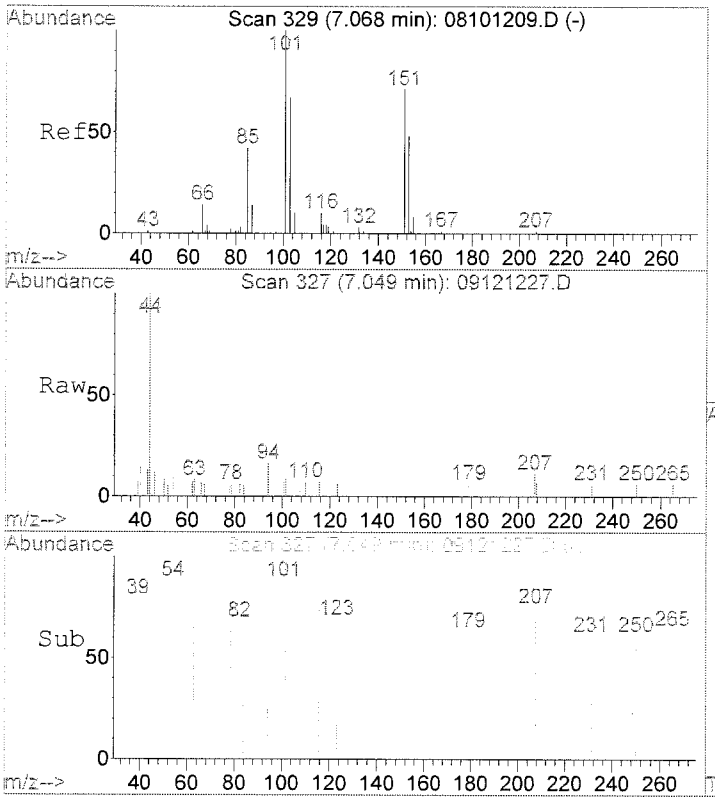


#15
Methylene Chloride
Concen: 0.59 ug/L
RT: 7.00 min Scan# 322
Delta R.T. 0.00 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 84 Resp: 2914

Ion	Ratio	Lower	Upper
84	100		
49	109.0	103.4	155.0
86	53.5	52.0	78.0

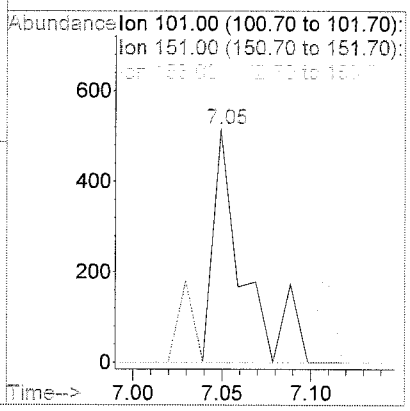


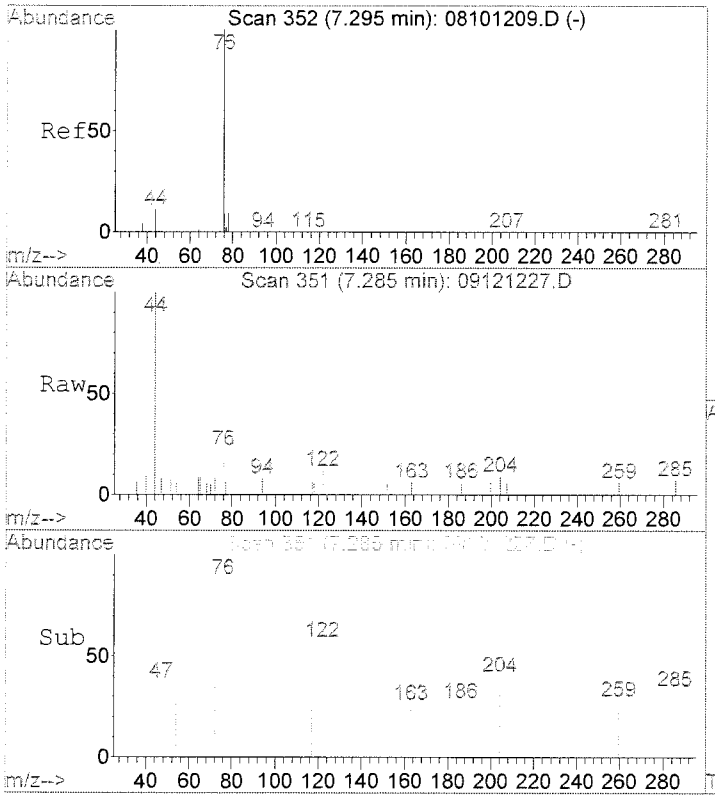


#16
Freon 113
Concen: 0.11 ug/L
RT: 7.05 min Scan# 327
Delta R.T. -0.02 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:101 Resp: 611

Ion	Ratio	Lower	Upper
101	100		
151	17.3	59.6	89.4#
153	20.5	37.9	56.9#

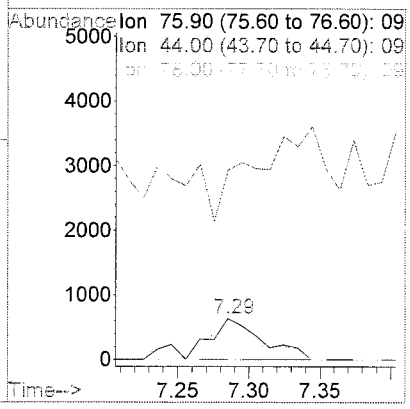


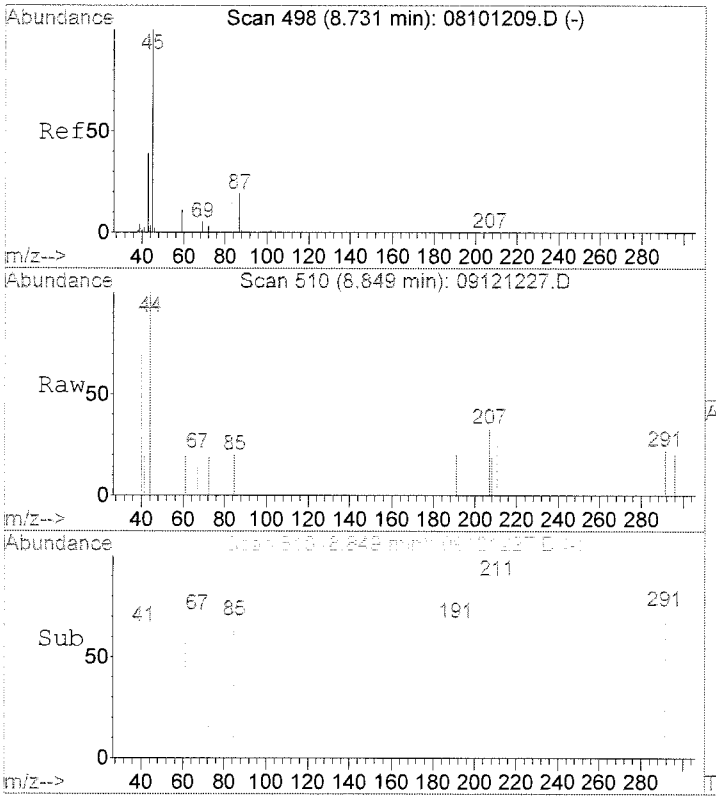


#17
Carbon disulfide
Concen: 0.09 ug/L
RT: 7.29 min Scan# 351
Delta R.T. -0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 76 Resp: 1617

Ion	Ratio	Lower	Upper
76	100		
44	108.0	10.2	15.2#
78	0.0	7.6	11.4#

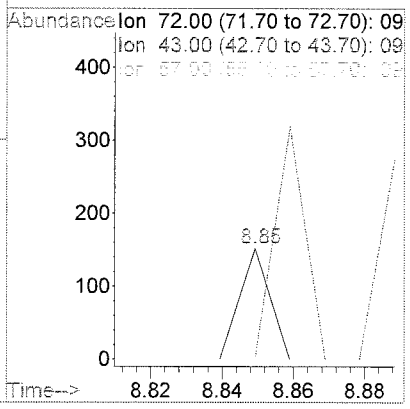


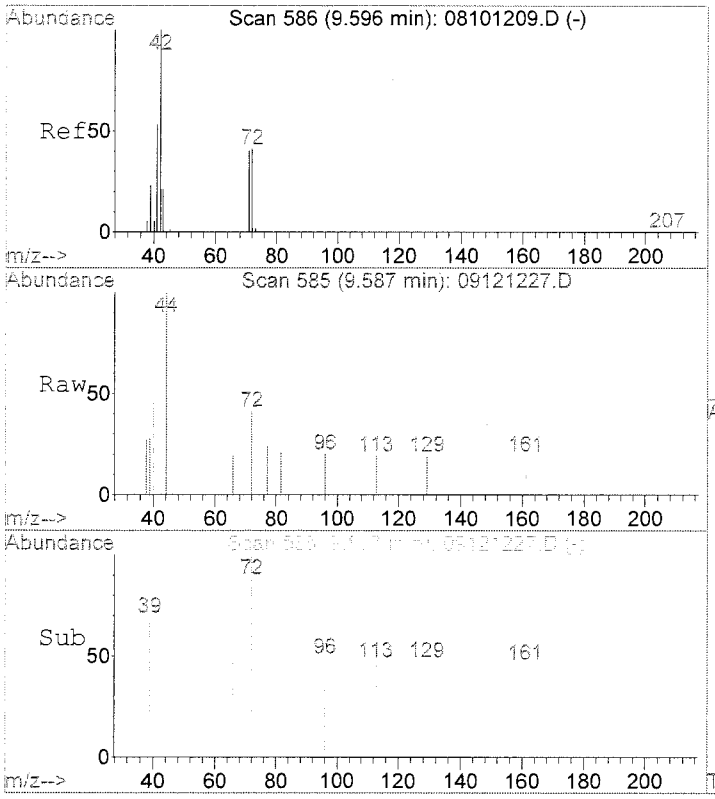


#23
2-Butanone (MEK)
Concen: 0.23 ug/L
RT: 8.85 min Scan# 510
Delta R.T. 0.12 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 72 Resp: 90

Ion	Ratio	Lower	Upper
72	100		
43	282.2	1366.5	2049.7#
57	0.0	0.0	0.0

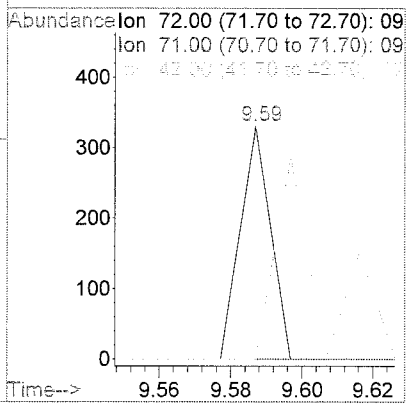




#31
Tetrahydrofuran
Concen: 0.54 ug/L
RT: 9.59 min Scan# 585
Delta R.T. -0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 72 Resp: 195

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	133.3	217.1	325.7#



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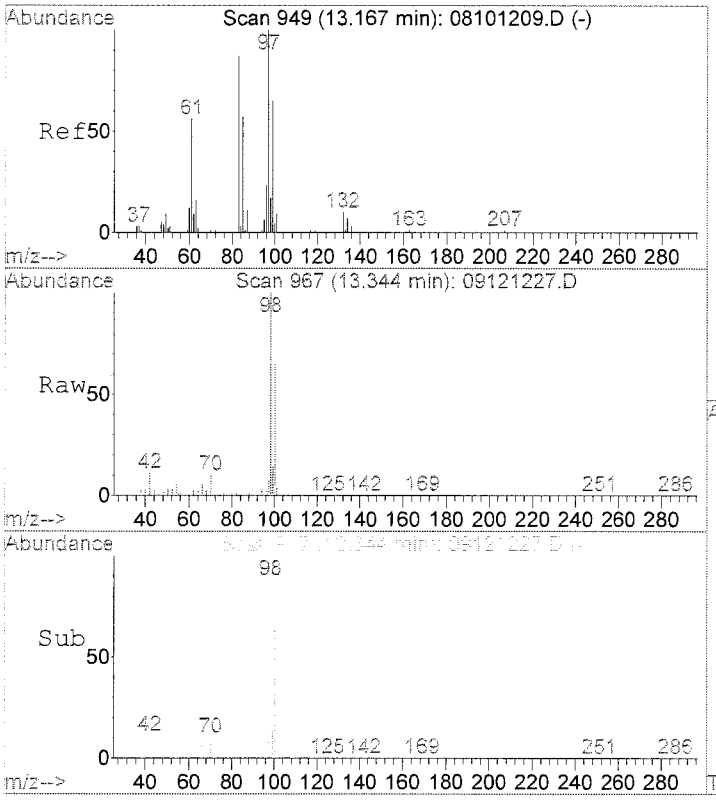
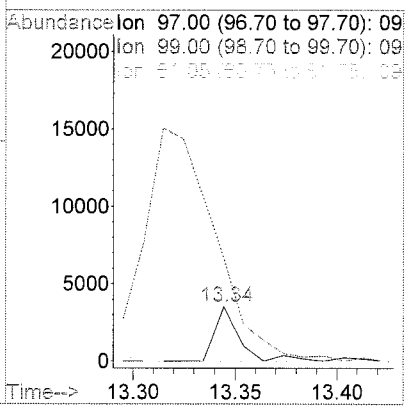


#47
1,1,2-Trichloroethane
Concen: 1.15 ug/L
RT: 13.34 min Scan# 967
Delta R.T. 0.18 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

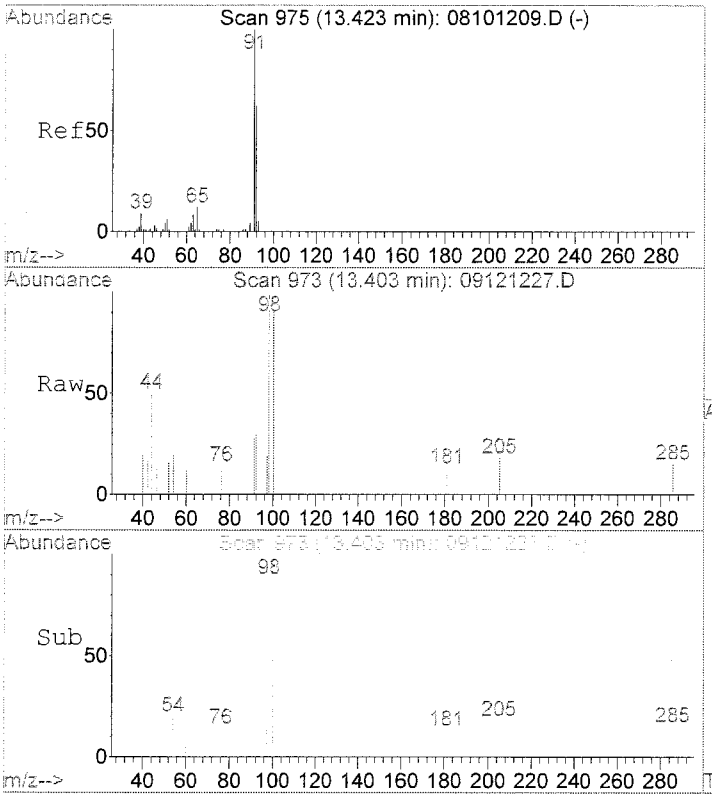
Tgt Ion: 97 Resp: 2954

Ion	Ratio	Lower	Upper
97	100		
99	1256.5	51.8	77.6#
61	4.7	45.0	67.4#



WNT

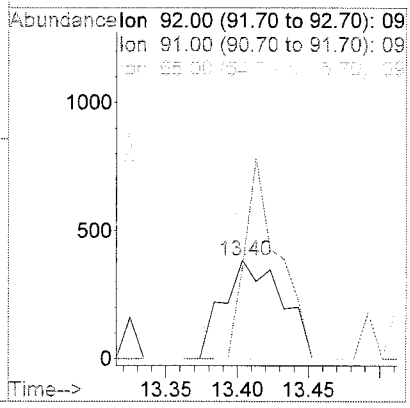
MM



#49
Toluene
Concen: 0.10 ug/L
RT: 13.40 min Scan# 973
Delta R.T. -0.02 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 92 Resp: 1102

Ion	Ratio	Lower	Upper
92	100		
91	117.0	134.1	201.1#
65	8.8	15.8	23.8#



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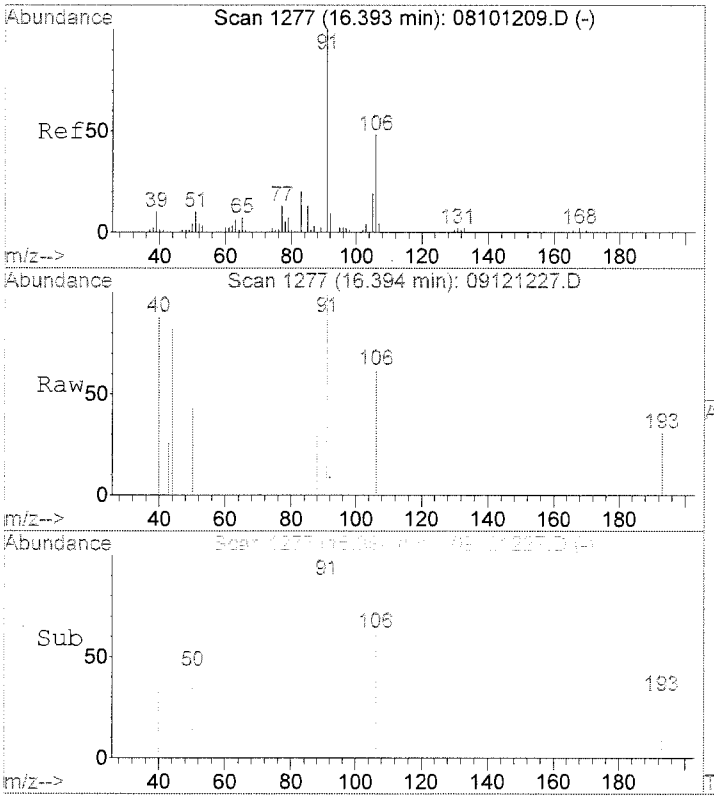
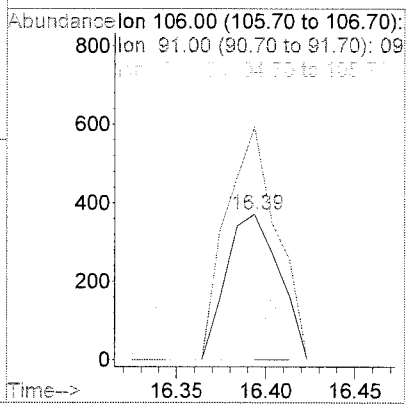


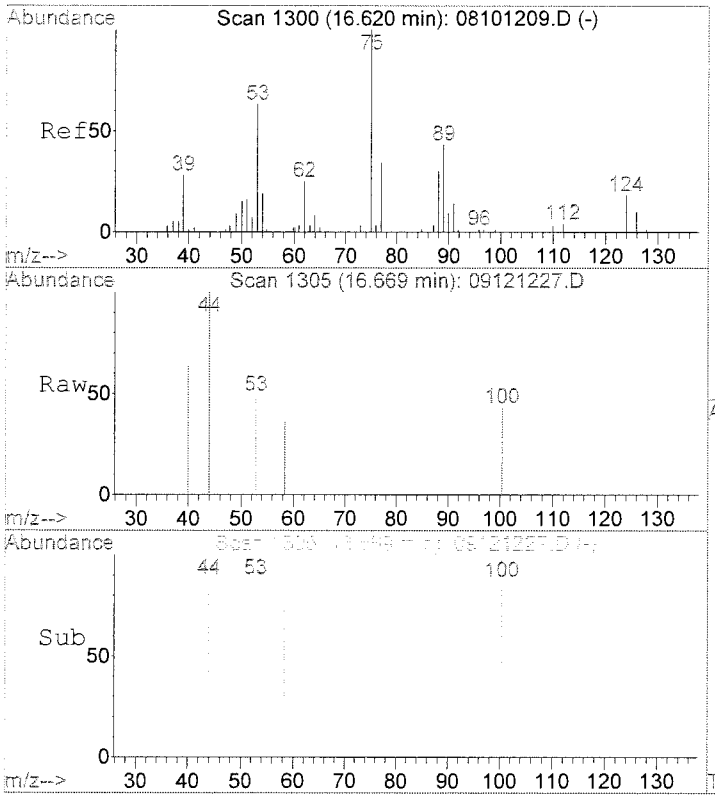
#61
o-Xylene
Concen: 0.12 ug/L
RT: 16.39 min Scan# 1277
Delta R.T. 0.00 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:106 Resp: 769

Ion	Ratio	Lower	Upper
106	100		
91	152.9	168.6	252.8#
105	12.7	32.6	48.8#



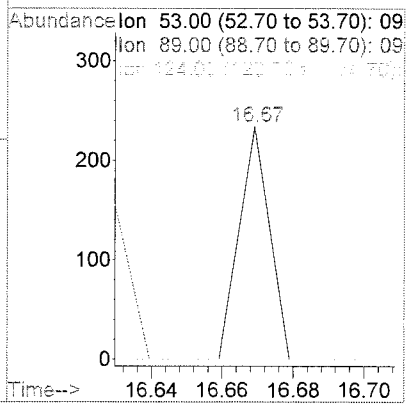
MM

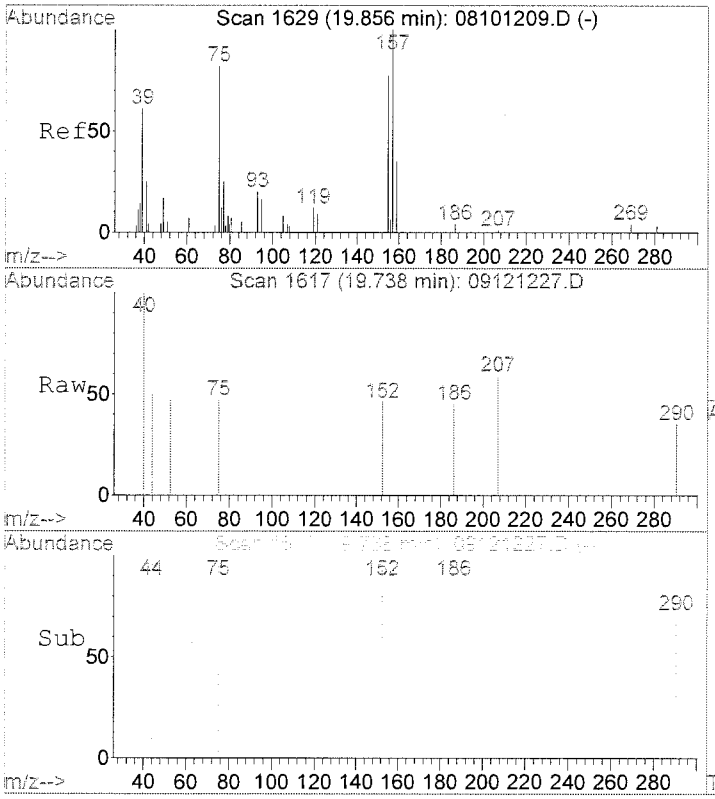


#67
trans-1,4-Dichloro-2-butene
Concen: 1.22 ug/L
RT: 16.67 min Scan# 1305
Delta R.T. 0.05 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 53 Resp: 138

Ion	Ratio	Lower	Upper
53	100		
89	65.9	50.5	75.7
124	0.0	21.8	32.8#

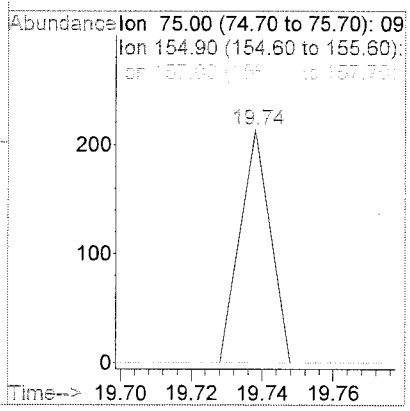


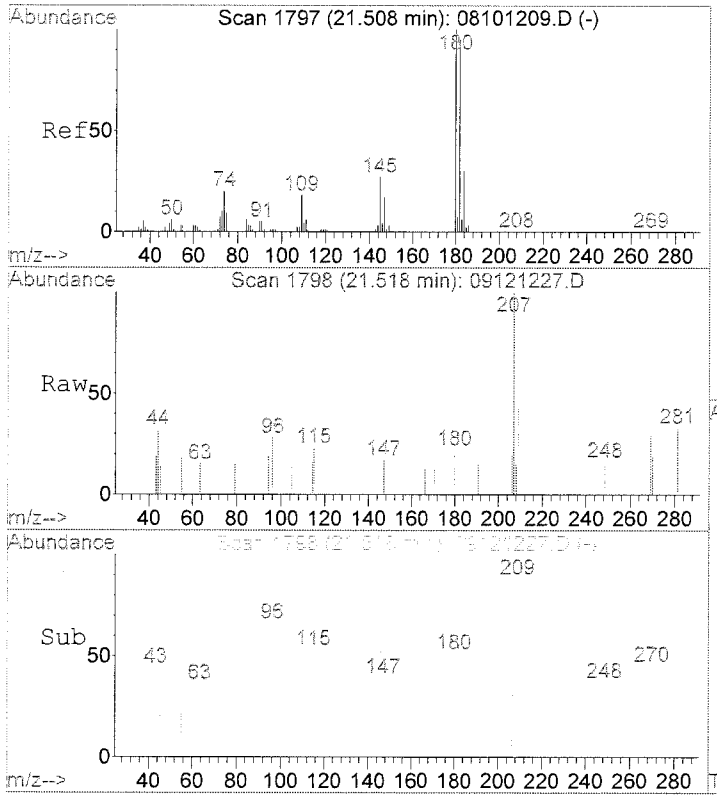


#82
1,2-Dibromo-3-chloropropane
Concen: 0.63 ug/L
RT: 19.74 min Scan# 1617
Delta R.T. -0.12 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion: 75 Resp: 126

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

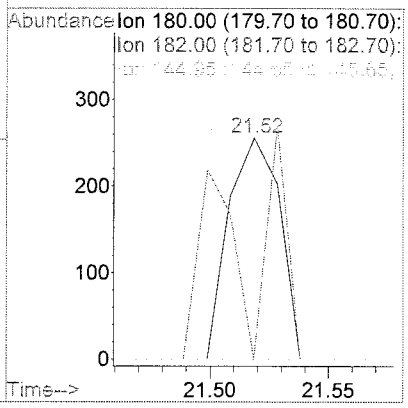




#83
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L
RT: 21.52 min Scan# 1798
Delta R.T. 0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:180 Resp: 382

Ion	Ratio	Lower	Upper
180	100		
182	41.6	77.9	116.9#
145	0.0	22.8	34.2#



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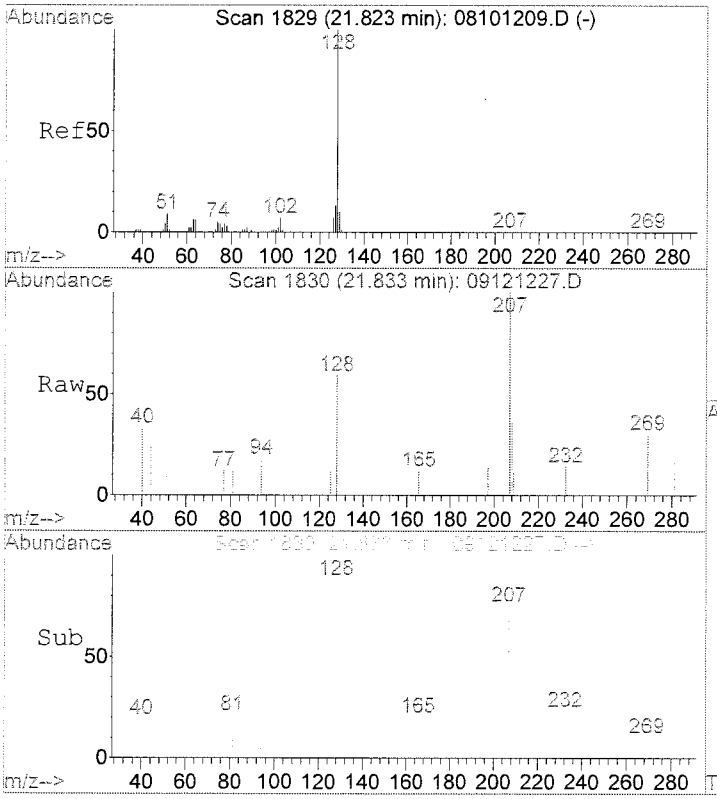
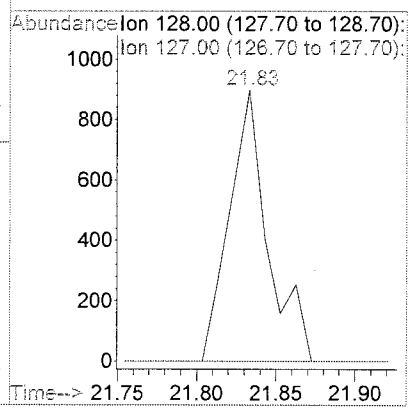


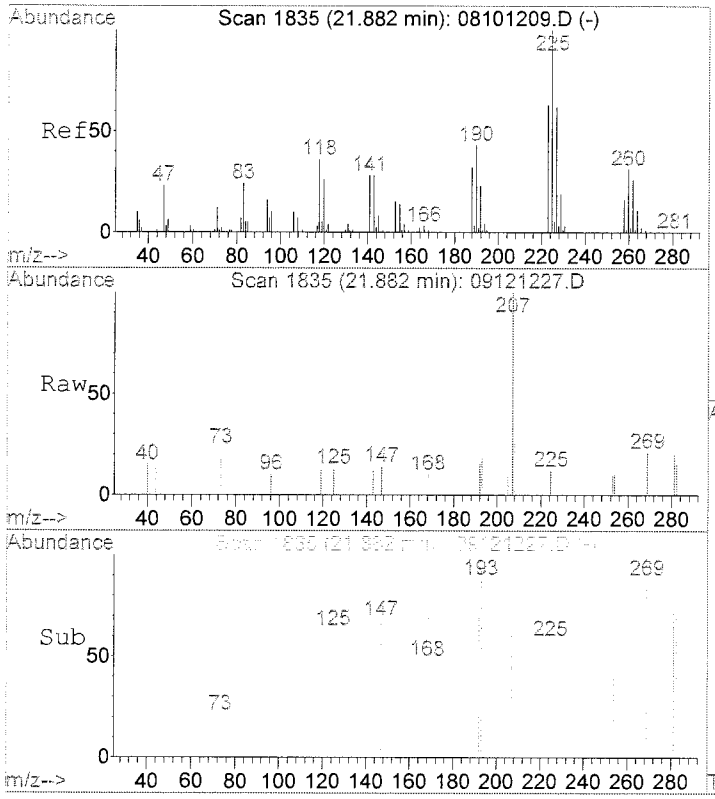
#84
Napthalene
Concen: 0.32 ug/L
RT: 21.83 min Scan# 1830
Delta R.T. 0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:128 Resp: 1510

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#



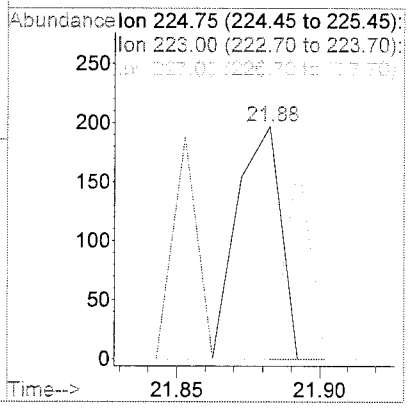
MM

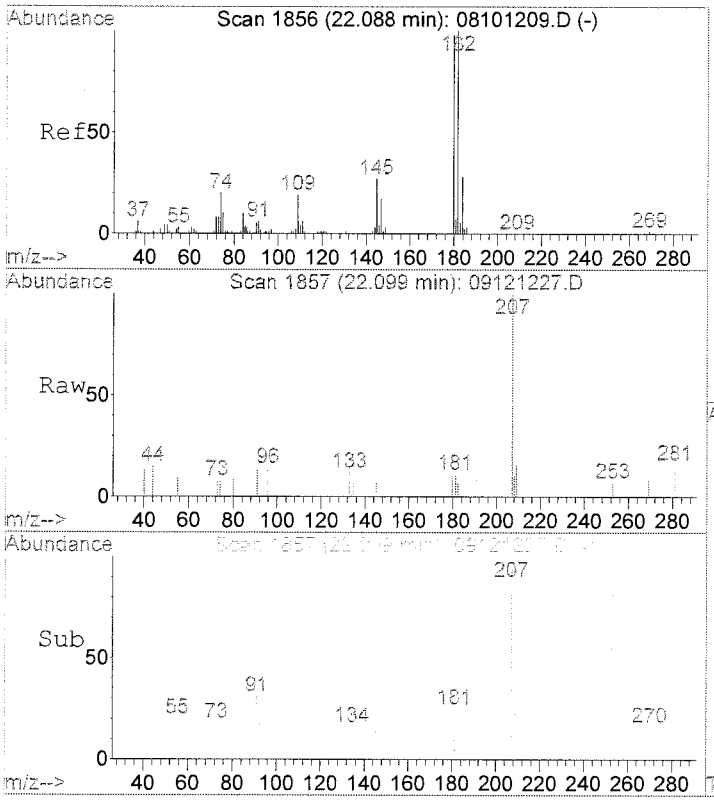


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.88 min Scan# 1835
Delta R.T. 0.00 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:225 Resp: 207

Ion	Ratio	Lower	Upper
225	100		
223	53.6	47.8	71.8
227	47.8	50.6	75.8#

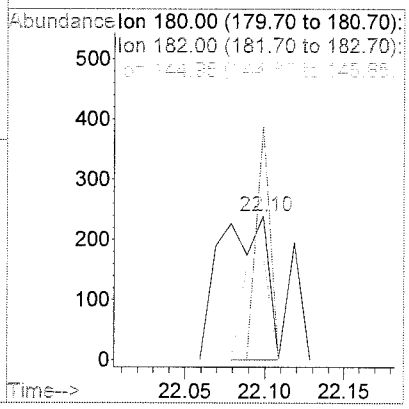




#86
1,2,3-Trichlorobenzene
Concen: 0.10 ug/L
RT: 22.10 min Scan# 1857
Delta R.T. 0.01 min
Lab File: 09121227.D
Acq: 12 Sep 2012 6:25 pm

Tgt Ion:180 Resp: 604

Ion	Ratio	Lower	Upper
180	100		
182	37.7	78.9	118.3#
145	32.3	23.2	34.8



MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121229.D Vial: 7
Acq On : 12 Sep 2012 7:30 pm Operator: MNM
Sample : PVI0512-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:10 2012 Quant Results File: 081012.RES

9/13/12

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52618	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258703	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	343033	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	252067	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	99075	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	119415	26.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.56%	
48) Toluene-d8	13.32	98	346870	25.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.44%	
62) 4-Bromofluorobenzene	16.95	95	95086	24.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.64%	

Target Compounds						Qvalue
2) Ethanol	5.38	45	126660	4464.90 ug/L	#	69
3) tert-Butanol (TBA)	6.81	59	244	0.79 ug/L	#	1
6) Chloromethane	4.33	50	1466	0.16 ug/L		99
9) Bromomethane	5.26	94	2725	0.53 ug/L	#	10
12) Acetone	6.24	43	4209	3.86 ug/L	#	80
14) 1,1-Dichloroethene	6.81	96	616	0.12 ug/L	#	6
15) Methylene Chloride	7.00	84	2306	0.50 ug/L	#	78
31) Tetrahydrofuran	9.55	72	148	0.44 ug/L	#	7
39) Dibromomethane	11.26	93	191	0.09 ug/L	#	33
67) trans-1,4-Dichloro-2-buten	16.48	53	132	1.22 ug/L	#	18
85) Hexachlorobutadiene	21.87	225	114	Below Cal	#	36
86) 1,2,3-Trichlorobenzene	21.97	180	94	Below Cal	#	11

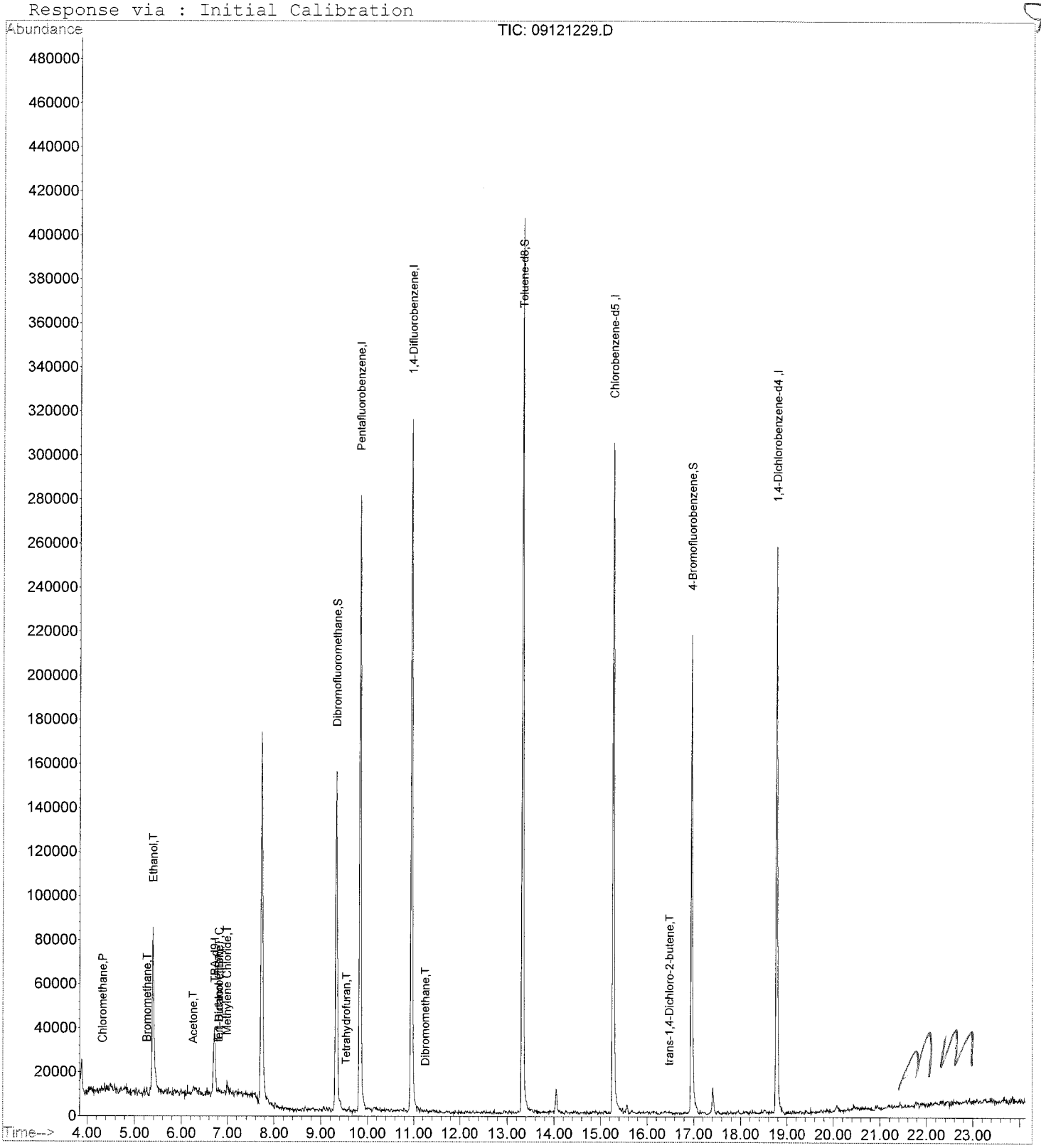
MM 9/13/12

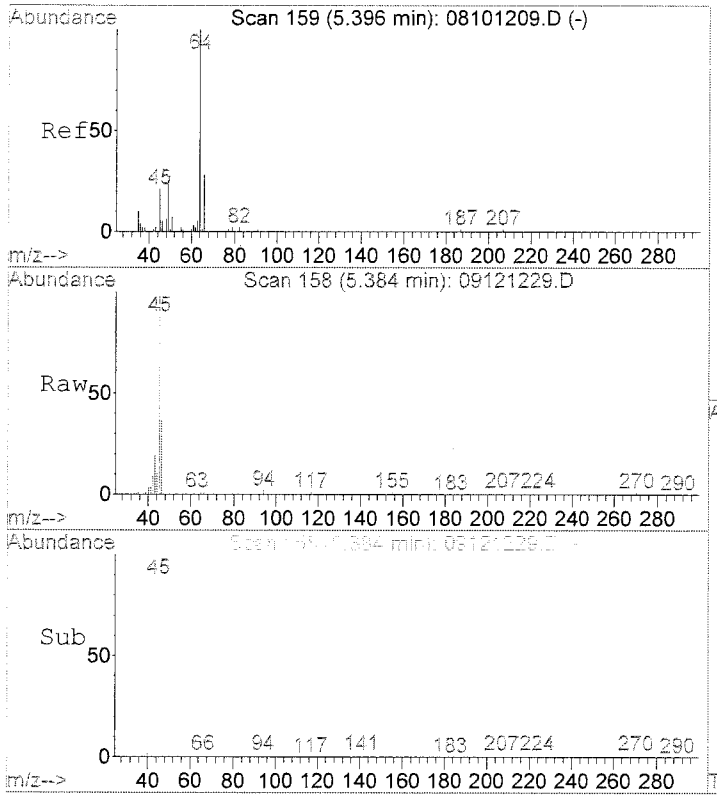
(#) = qualifier out of range (m) = manual integration
09121229.D 081012.M Thu Sep 13 06:58:18 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121229.D Vial: 7
Acq On : 12 Sep 2012 7:30 pm Operator: MNM
Sample : PVI0512-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:10 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

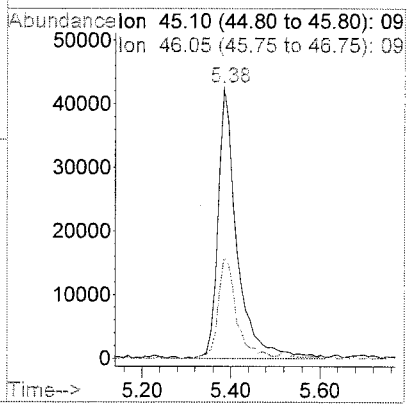


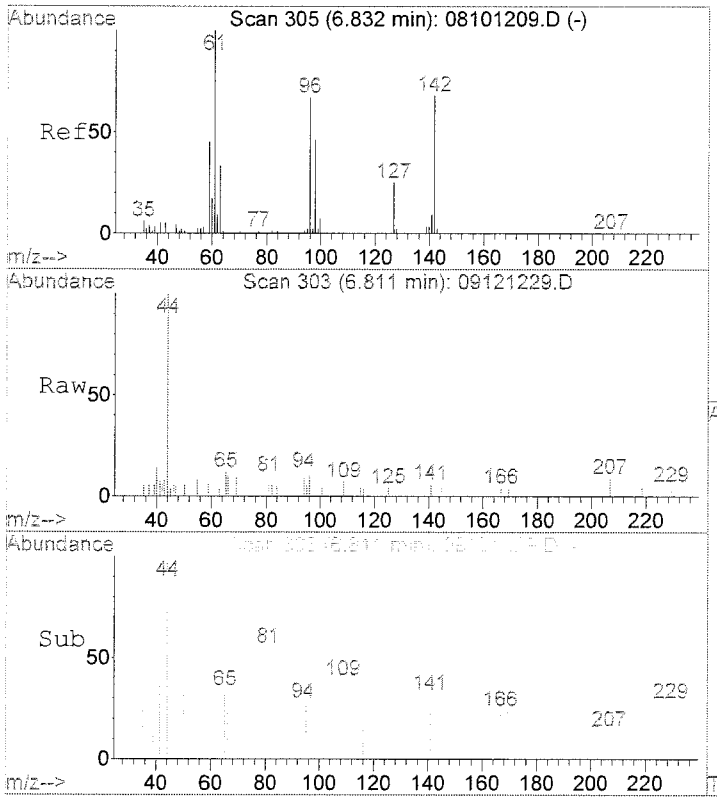


#2
Ethanol
Concen: 4464.90 ug/L
RT: 5.38 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 45 Resp: 126660

Ion	Ratio	Lower	Upper
45	100		
46	36.1	39.9	79.9#

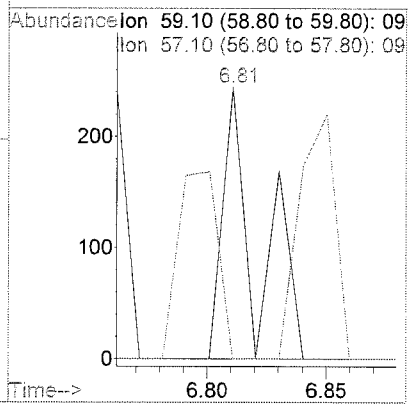


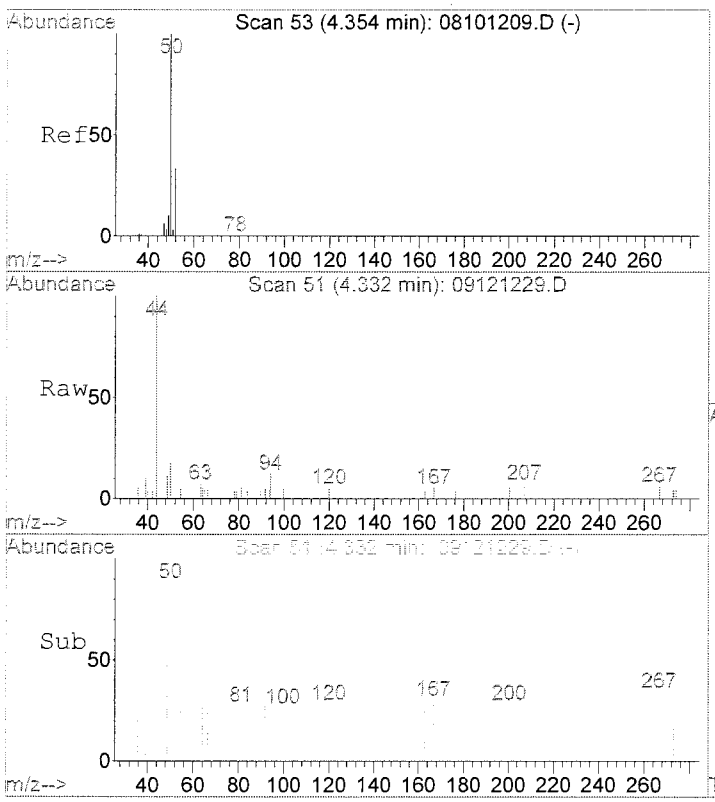


#3
tert-Butanol (TBA)
Concen: 0.79 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.02 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 59 Resp: 244

Ion	Ratio	Lower	Upper
59	100		
57	80.7	6.4	9.6#

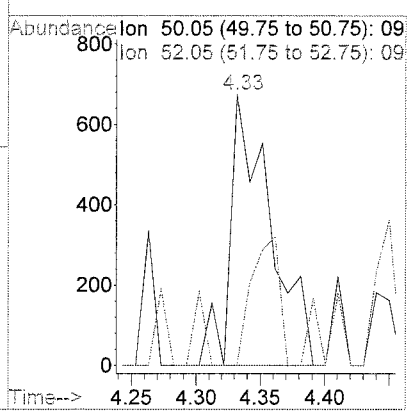


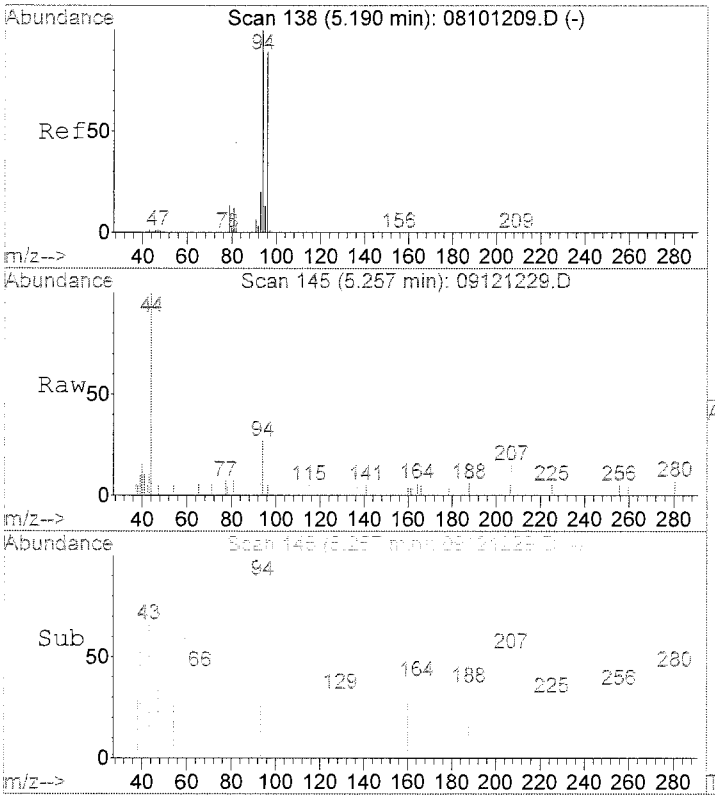


#6
Chloromethane
Concen: 0.16 ug/L
RT: 4.33 min Scan# 51
Delta R.T. -0.02 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 50 Resp: 1466

Ion	Ratio	Lower	Upper
50	100		
52	32.8	12.3	52.3

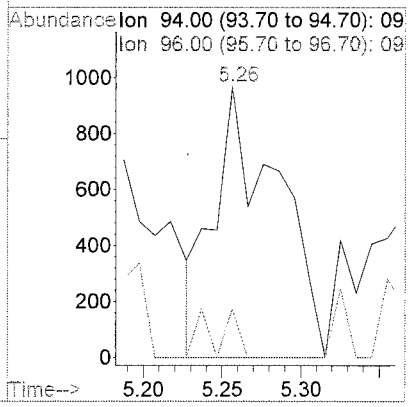


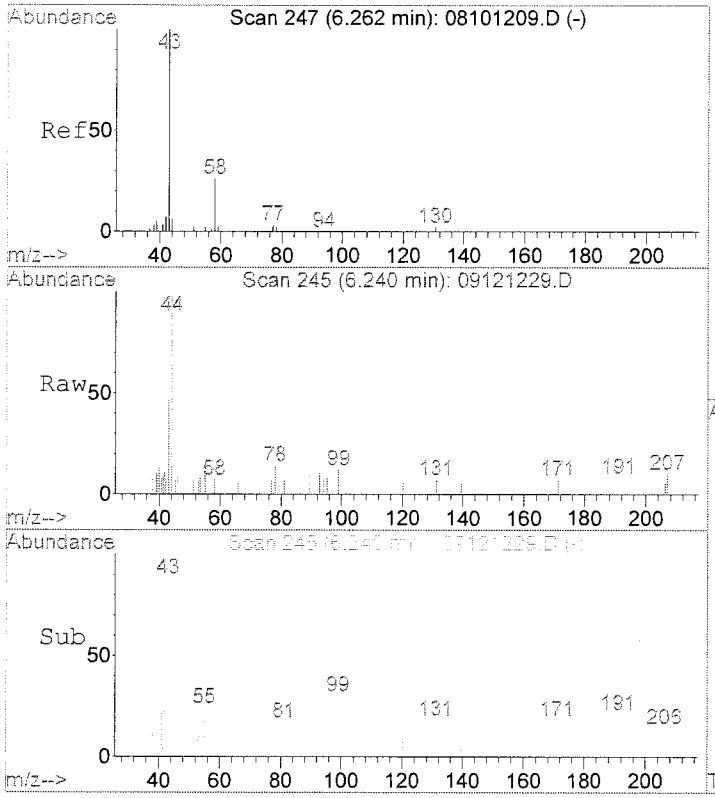


#9
Bromomethane
Concen: 0.53 ug/L
RT: 5.26 min Scan# 145
Delta R.T. 0.07 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 94 Resp: 2725

Ion	Ratio	Lower	Upper
94	100		
96	7.5	75.8	113.6#

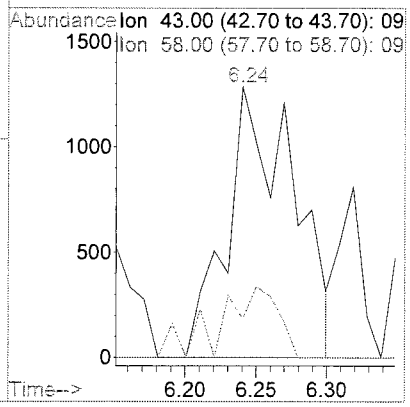


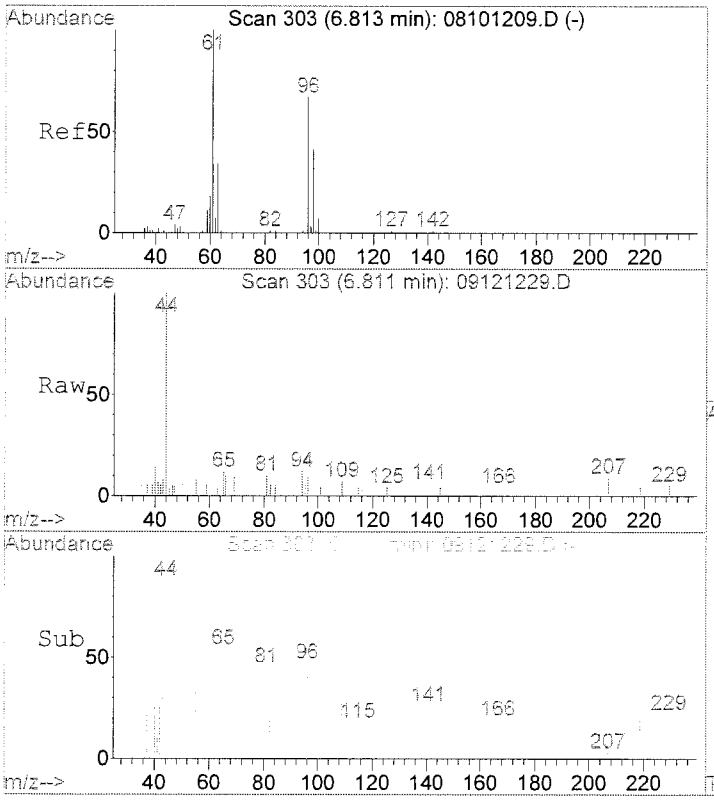


#12
Acetone
Concen: 3.86 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 43 Resp: 4209

Ion	Ratio	Lower	Upper
43	100		
58	21.2	25.9	38.9#

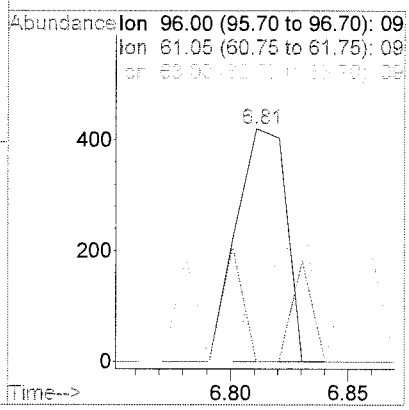


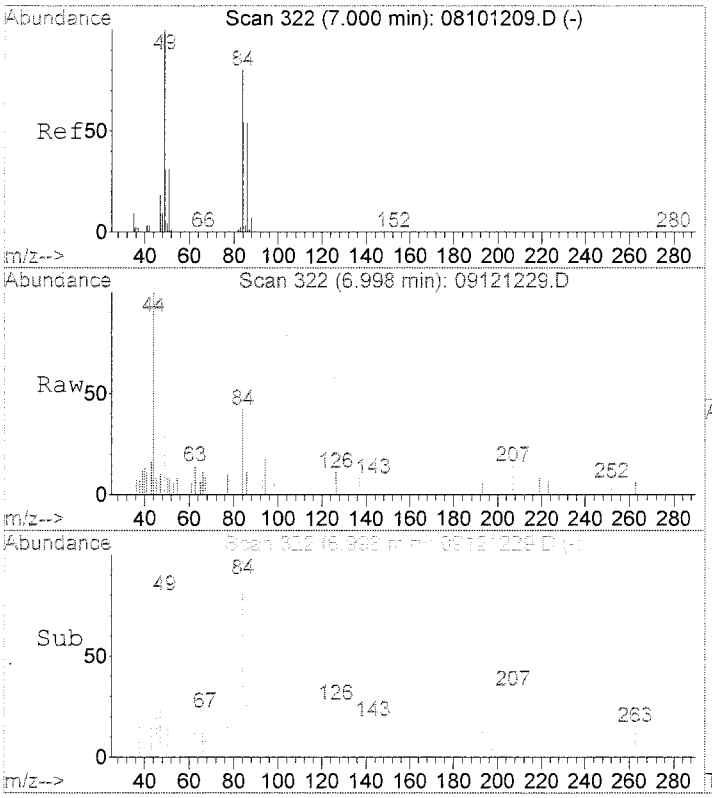


#14
1,1-Dichloroethene
Concen: 0.12 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.00 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 96 Resp: 616

Ion	Ratio	Lower	Upper
96	100		
61	0.0	128.0	192.0#
63	58.1	41.2	61.8

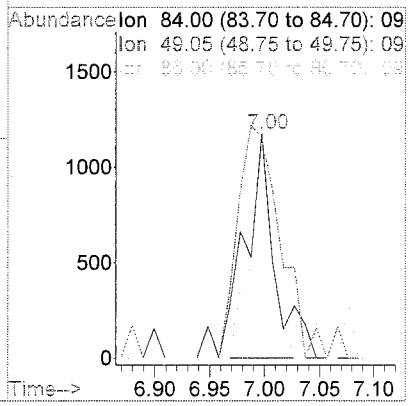


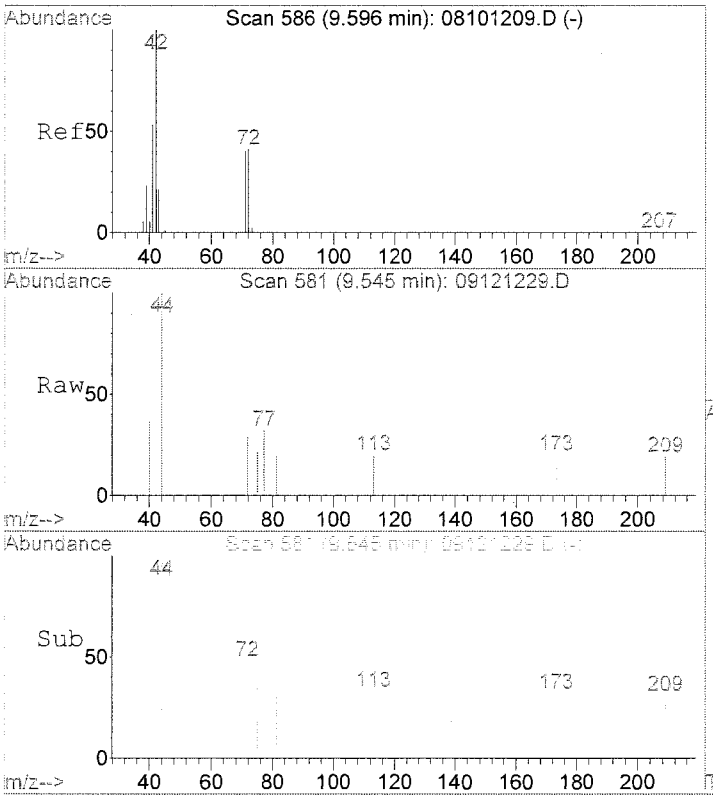


#15
Methylene Chloride
Concen: 0.50 ug/L
RT: 7.00 min Scan# 322
Delta R.T. -0.00 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 84 Resp: 2306

Ion	Ratio	Lower	Upper
84	100		
49	147.4	103.4	155.0
86	38.7	52.0	78.0#

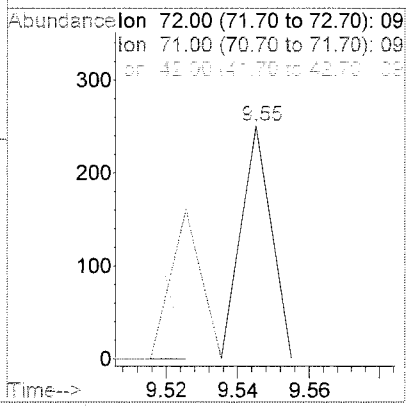


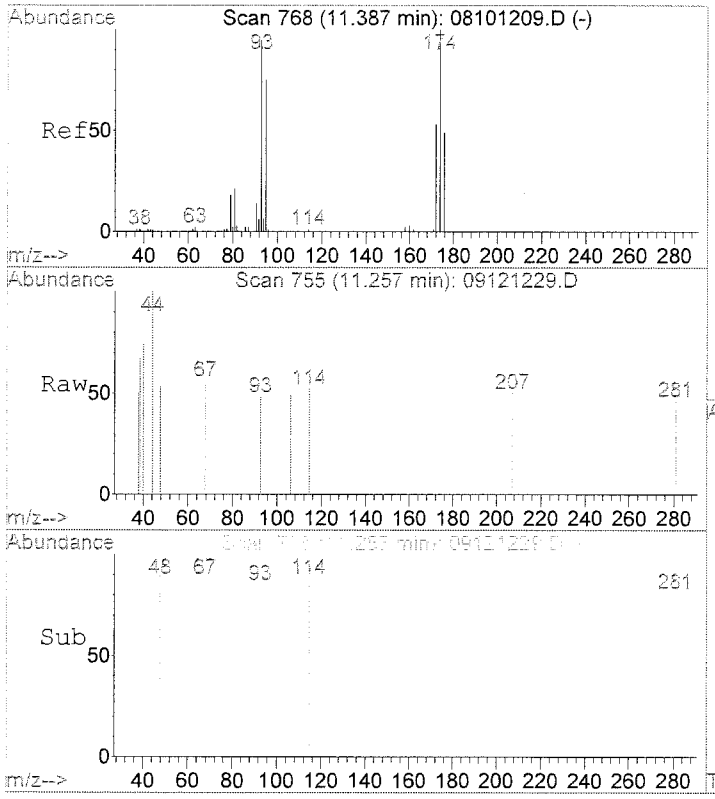


#31
Tetrahydrofuran
Concen: 0.44 ug/L
RT: 9.55 min Scan# 581
Delta R.T. -0.05 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 72 Resp: 148

Ion	Ratio	Lower	Upper
72	100		
71	64.2	79.1	118.7#
42	60.8	217.1	325.7#

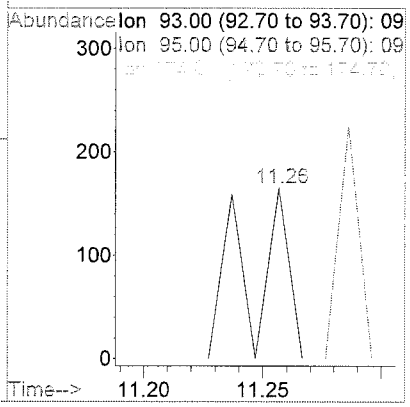


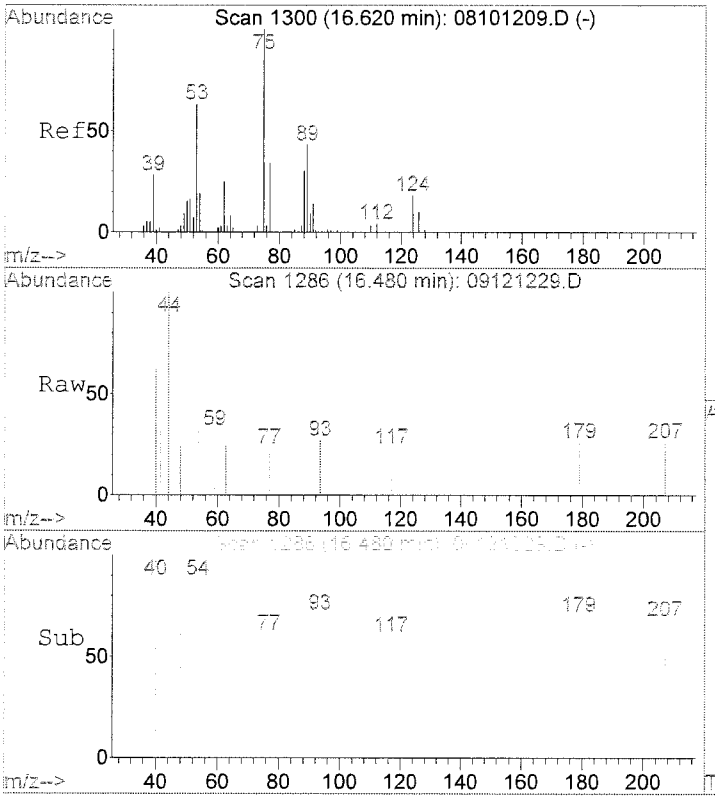


#39
Dibromomethane
Concen: 0.09 ug/L
RT: 11.26 min Scan# 755
Delta R.T. -0.13 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 93 Resp: 191

Ion	Ratio	Lower	Upper
93	100		
95	69.6	66.7	100.1
174	0.0	90.9	136.3#

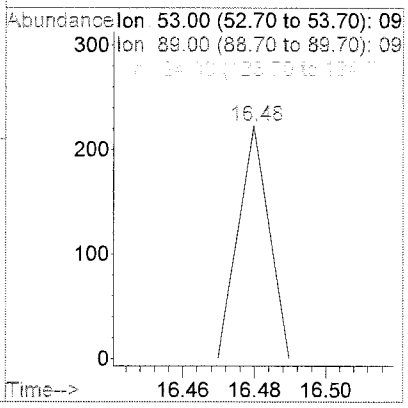


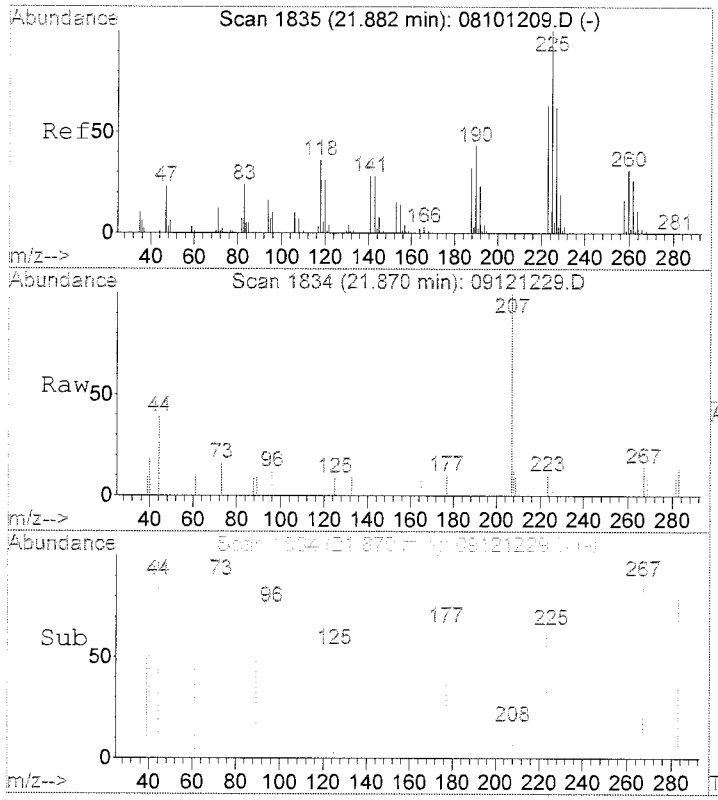


#67
trans-1,4-Dichloro-2-butene
Concen: 1.22 ug/L
RT: 16.48 min Scan# 1286
Delta R.T. -0.14 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion: 53 Resp: 132

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	70.5	21.8	32.8#

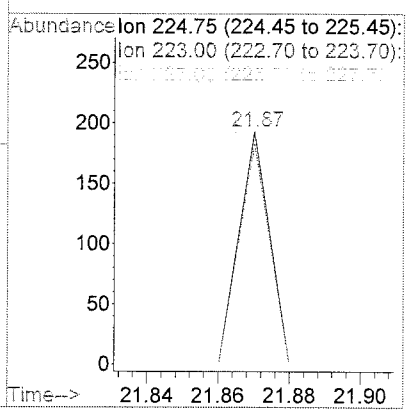


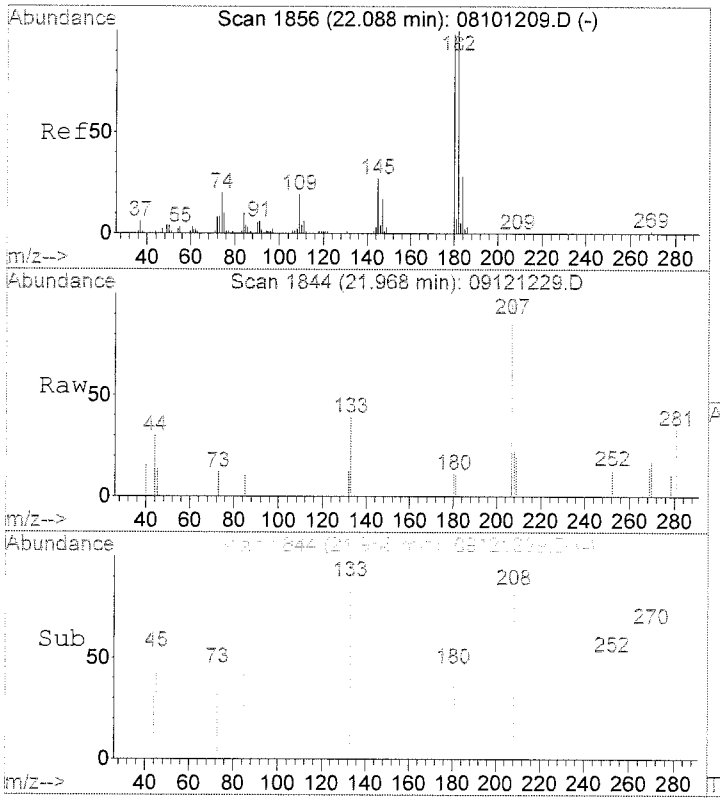


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.87 min Scan# 1834
Delta R.T. -0.01 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion:225 Resp: 114

Ion	Ratio	Lower	Upper
225	100		
223	94.7	47.8	71.8#
227	0.0	50.6	75.8#

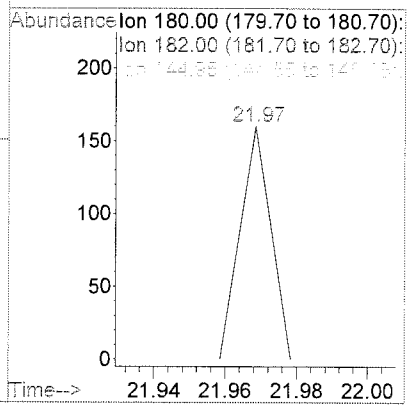




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 21.97 min Scan# 1844
Delta R.T. -0.12 min
Lab File: 09121229.D
Acq: 12 Sep 2012 7:30 pm

Tgt Ion:180 Resp: 94

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121235.D Vial: 13
Acq On : 12 Sep 2012 10:46 pm Operator: MNM
Sample : PVI0525-06 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:14 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	56184	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	258802	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	357231	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	262686	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	103861	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	127617	28.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 112.76%	
48) Toluene-d8	13.32	98	353779	25.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.32%	
62) 4-Bromofluorobenzene	16.95	95	106455	26.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.88%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	1833	60.51 ug/L #	65
3) tert-Butanol (TBA)	6.83	59	1138	3.46 ug/L #	45
5) Dichlorodifluoromethane	4.11	85	1489	0.16 ug/L #	60
9) Bromomethane	5.28	94	2755	0.53 ug/L #	2
11) Trichlorofluoromethane	6.10	101	2423	0.32 ug/L #	57
12) Acetone	6.24	43	1583	1.45 ug/L	97
14) 1,1-Dichloroethene	6.79	96	10696	2.06 ug/L #	83
15) Methylene Chloride	6.99	84	1673	0.36 ug/L #	74
16) Freon 113	7.07	101	1694	0.31 ug/L #	86
18) trans-1,2-Dichloroethene	7.83	96	1633	0.27 ug/L #	77
19) MTBE	7.99	73	1297	0.15 ug/L #	75
20) 1,1-Dichloroethane	8.18	63	14698	1.57 ug/L	98
23) 2-Butanone (MEK)	8.88	72	93	0.25 ug/L #	1
25) cis-1,2-Dichloroethene	8.90	96	35796	6.52 ug/L	98
27) Chloroform	9.17	83	19357	2.36 ug/L	97
28) 2,2-Dichloropropane	9.32	77	587	0.09 ug/L #	41
31) Tetrahydrofuran	9.60	72	900	2.65 ug/L #	91
32) 1,2-Dichloroethane	10.01	62	1264	0.32 ug/L #	55
34) (TAME) tert-Amyl methyl et	10.94	73	3269	0.36 ug/L #	25
41) Trichloroethene	11.48	95	284580	55.69 ug/L	95
42) Bromodichloromethane	11.54	83	818	0.16 ug/L #	96
45) 4-Methyl-2-Pentanone (MIBK	12.68	43	336	0.13 ug/L	91
52) 2-Hexanone	13.61	43	202	0.10 ug/L #	34
55) Tetrachloroethene	14.40	164	34883	7.54 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.69	75	139	0.66 ug/L #	1
86) 1,2,3-Trichlorobenzene	21.98	180	113	Below Cal #	85

NSM

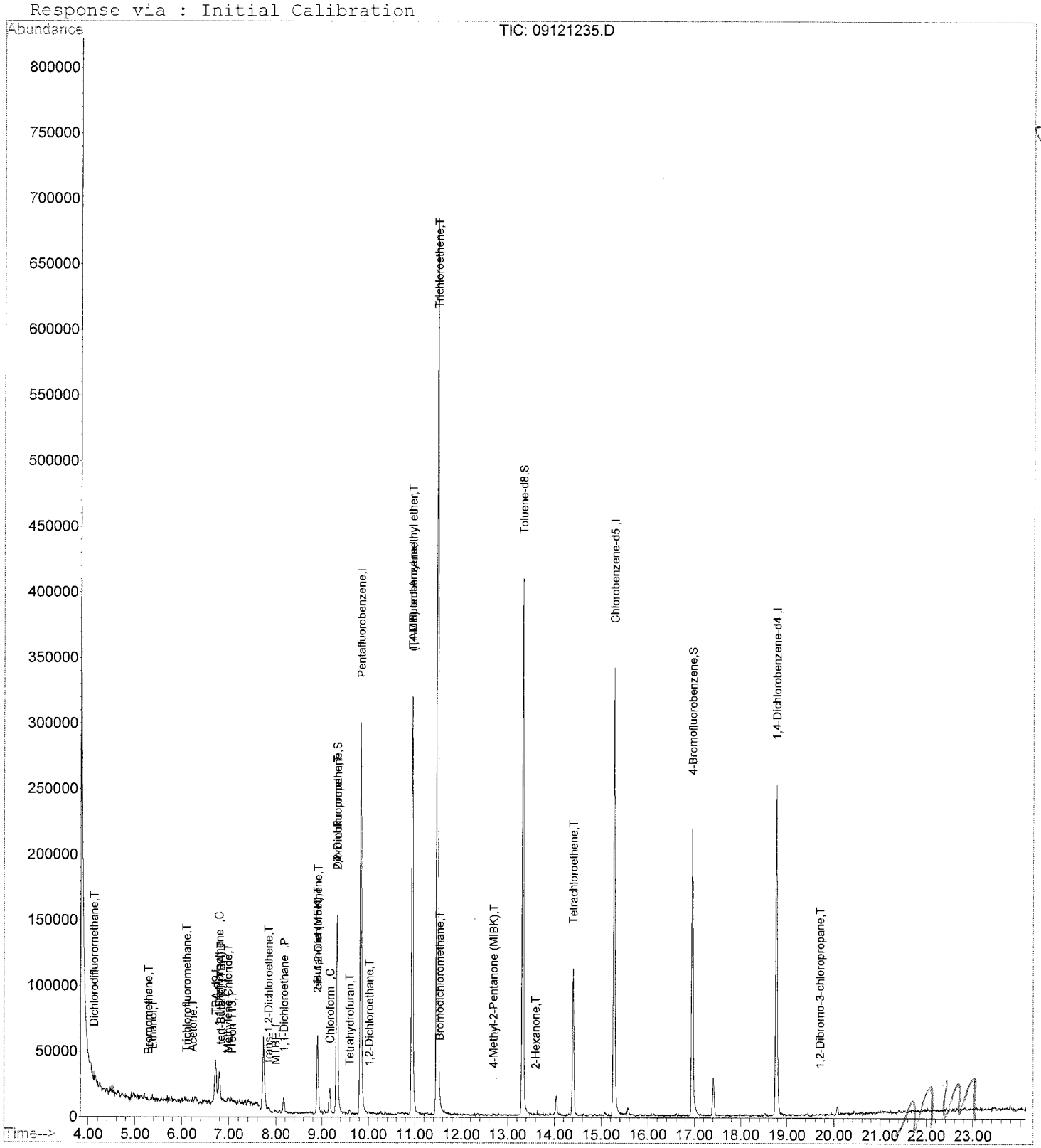
MM 9/13/12

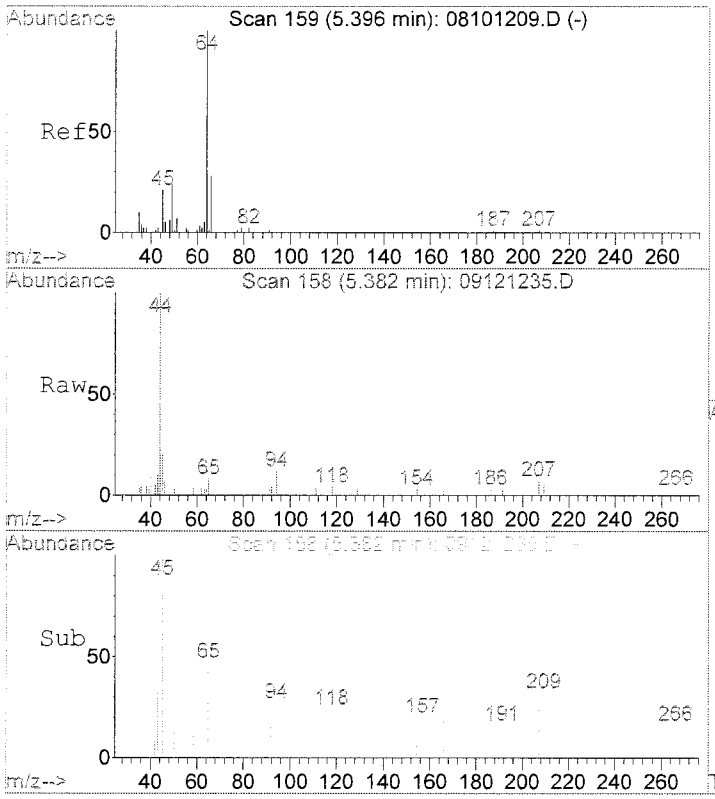
(#) = qualifier out of range (m) = manual integration
09121235.D 081012.M Thu Sep 13 07:00:02 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121235.D Vial: 13
Acq On : 12 Sep 2012 10:46 pm Operator: MNM
Sample : PVI0525-06 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:14 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

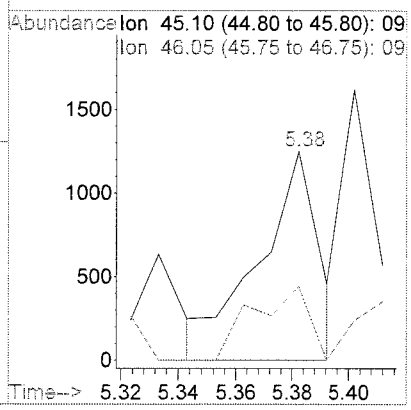


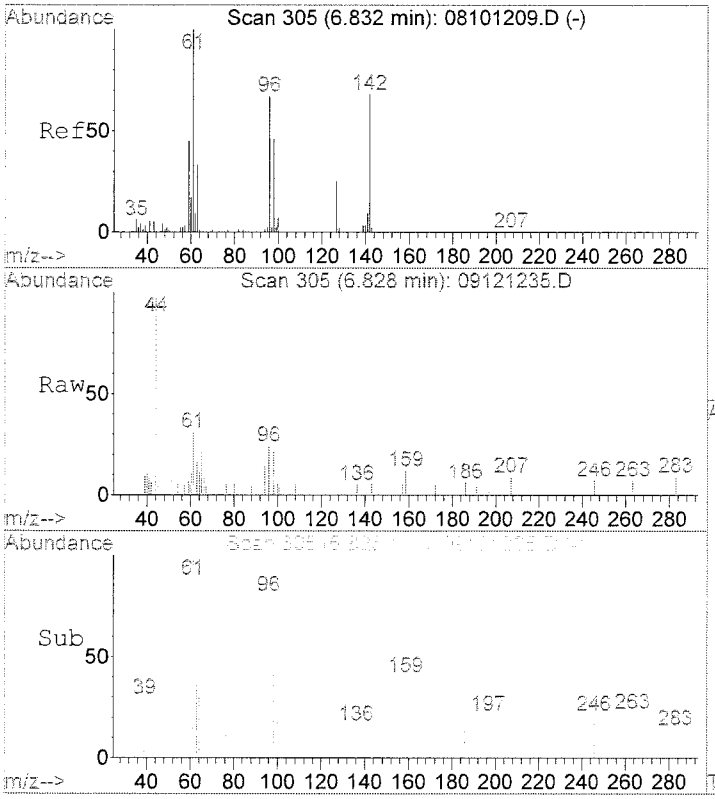


#2
Ethanol
Concen: 60.51 ug/L
RT: 5.38 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 45 Resp: 1833

Ion	Ratio	Lower	Upper
45	100		
46	33.5	39.9	79.9#

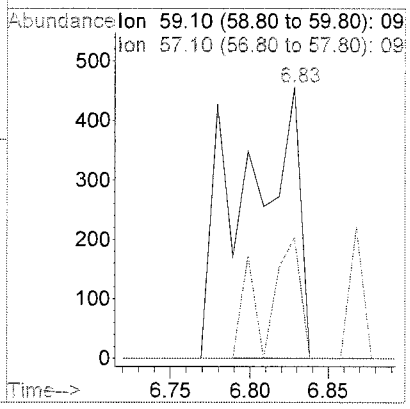


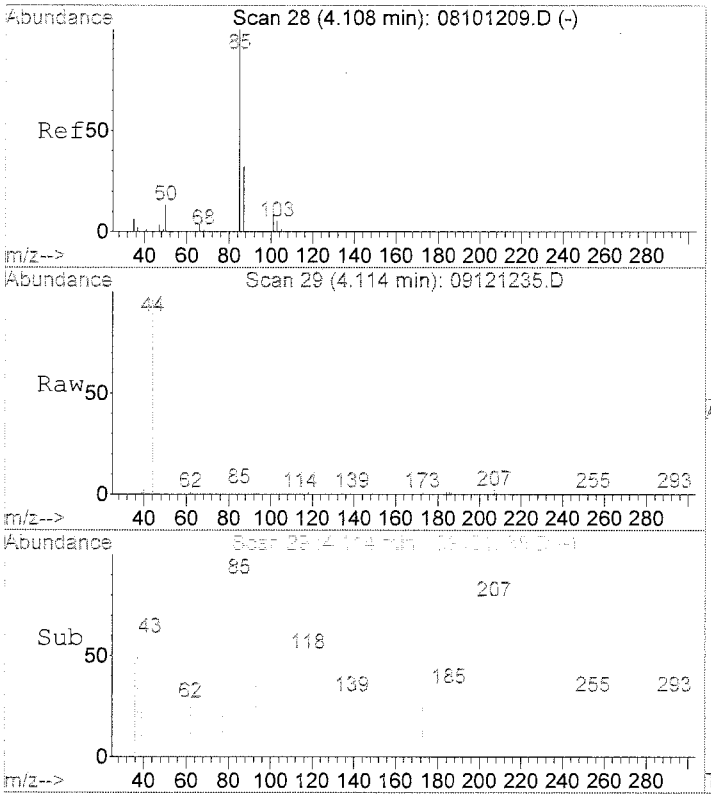


#3
tert-Butanol (TBA)
Concen: 3.46 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 59 Resp: 1138

Ion	Ratio	Lower	Upper
59	100		
57	27.5	6.4	9.6#



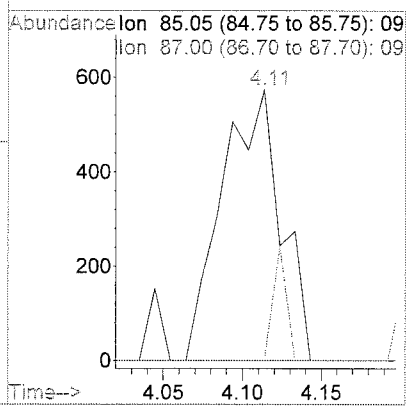


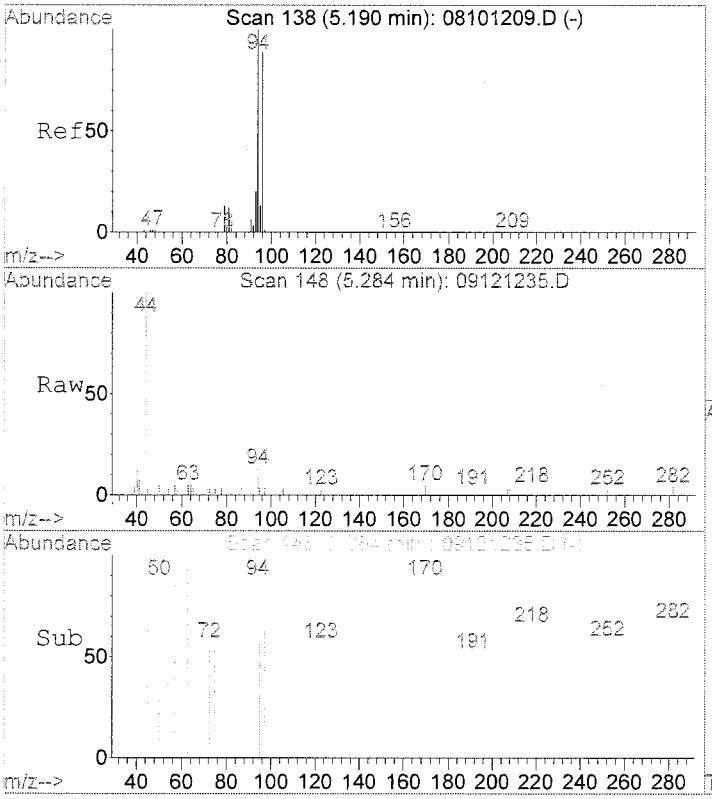
#5
Dichlorodifluoromethane
Concen: 0.16 ug/L
RT: 4.11 min Scan# 29
Delta R.T. 0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 85 Resp: 1489

Ion	Ratio	Lower	Upper
85	100		
87	9.6	11.9	51.9#

NJM

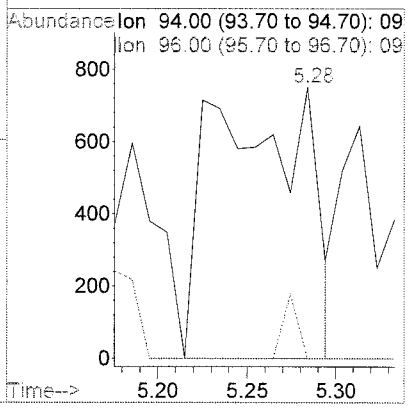




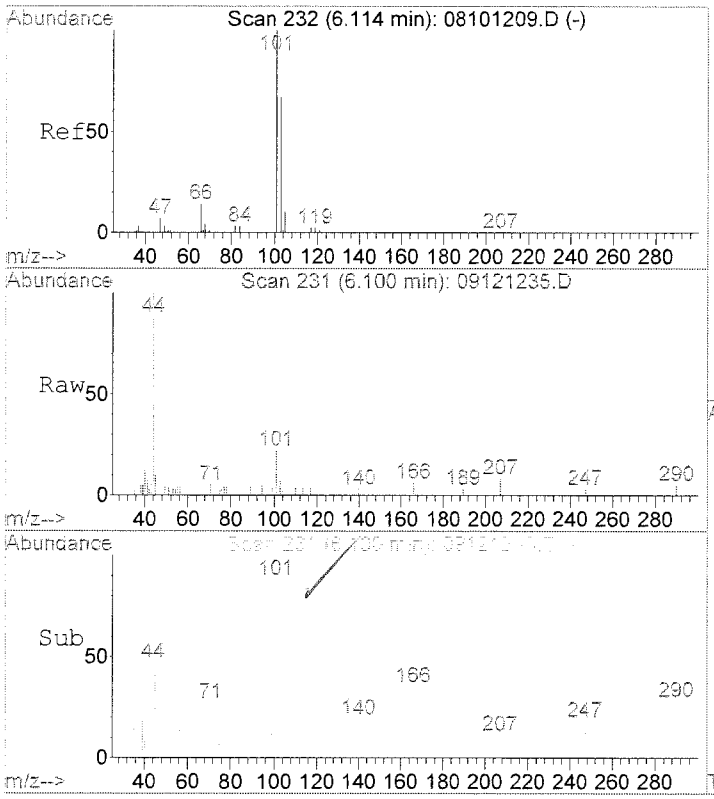
#9
Bromomethane
Concen: 0.53 ug/L
RT: 5.28 min Scan# 148
Delta R.T. 0.09 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 94 Resp: 2755

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#



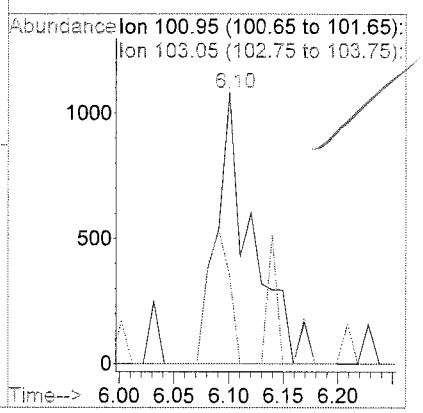
NJM

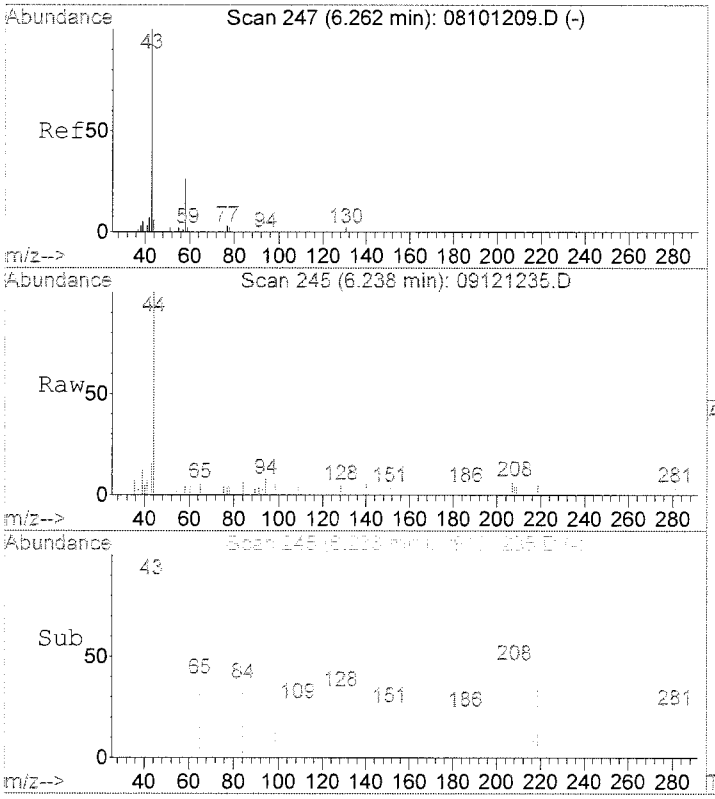


#11
Trichlorofluoromethane
Concen: 0.32 ug/L
RT: 6.10 min Scan# 231
Delta R.T. -0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion:101 Resp: 2423

Ion	Ratio	Lower	Upper
101	100		
103	31.1	51.8	77.6#

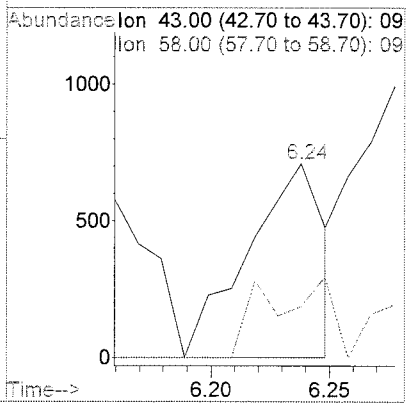


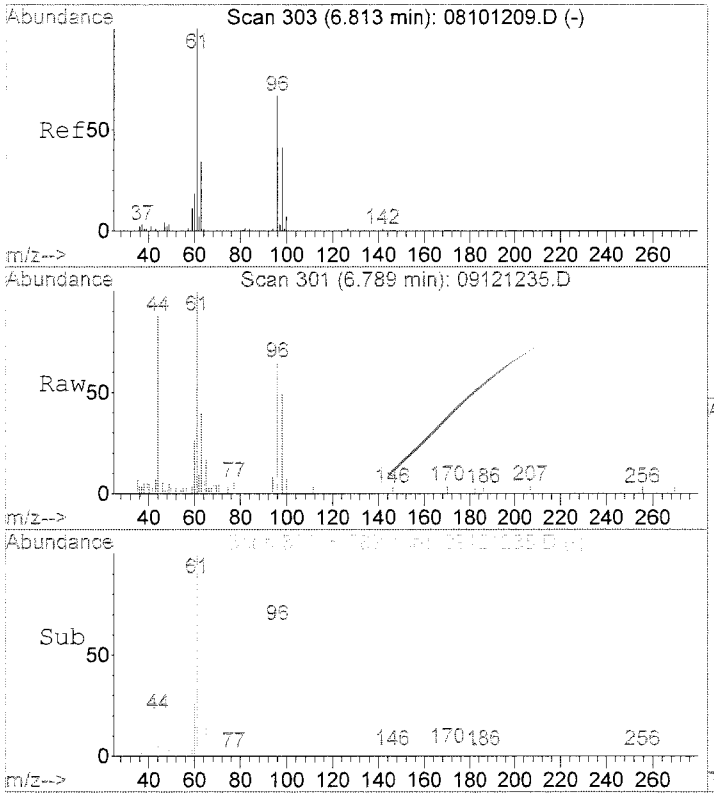


#12
Acetone
Concen: 1.45 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 43 Resp: 1583

Ion	Ratio	Lower	Upper
43	100		
58	34.2	25.9	38.9

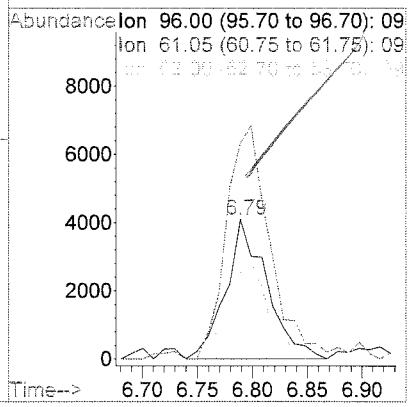




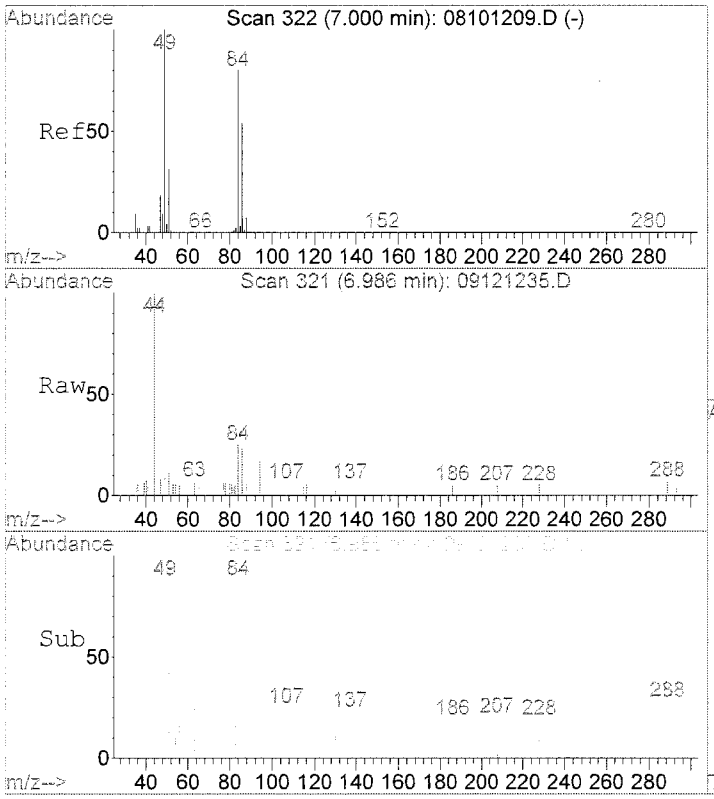
#14
1,1-Dichloroethene
Concen: 2.06 ug/L
RT: 6.79 min Scan# 301
Delta R.T. -0.02 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 96 Resp: 10696

Ion	Ratio	Lower	Upper
96	100		
61	176.4	128.0	192.0
63	72.3	41.2	61.8#



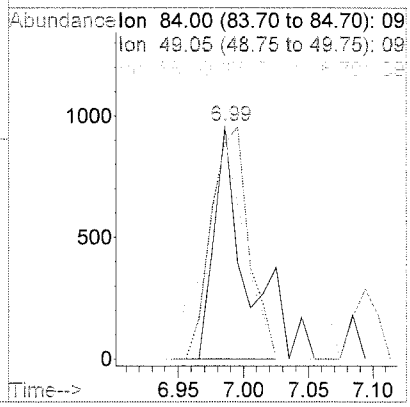
J



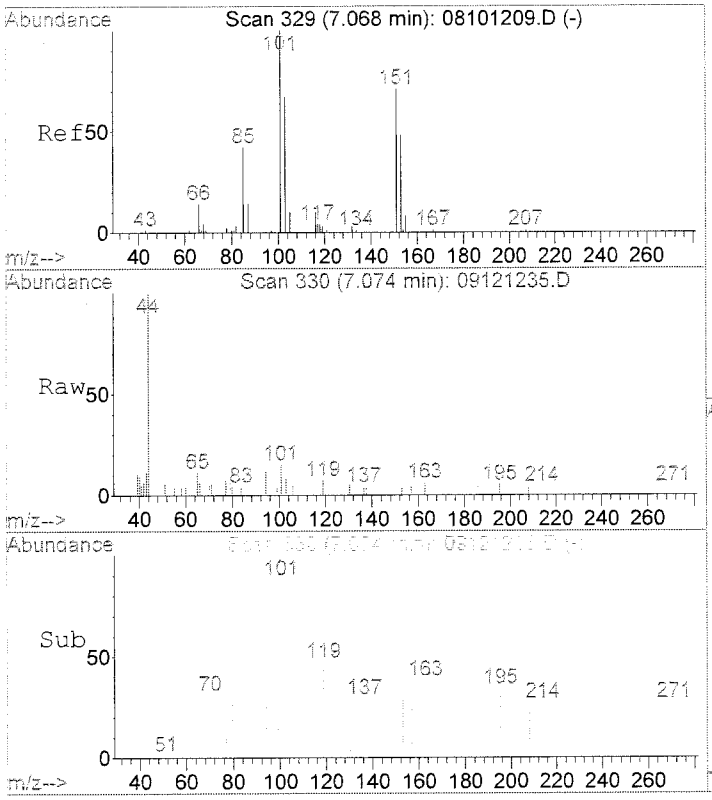
#15
Methylene Chloride
Concen: 0.36 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 84 Resp: 1673

Ion	Ratio	Lower	Upper
84	100		
49	114.0	103.4	155.0
86	105.9	52.0	78.0#



MM

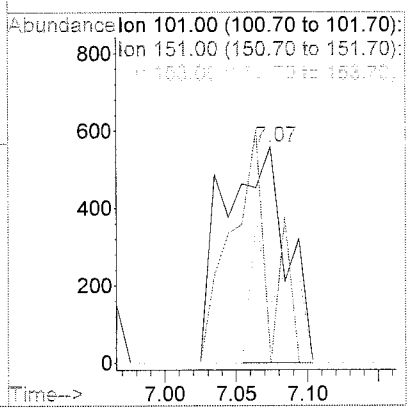


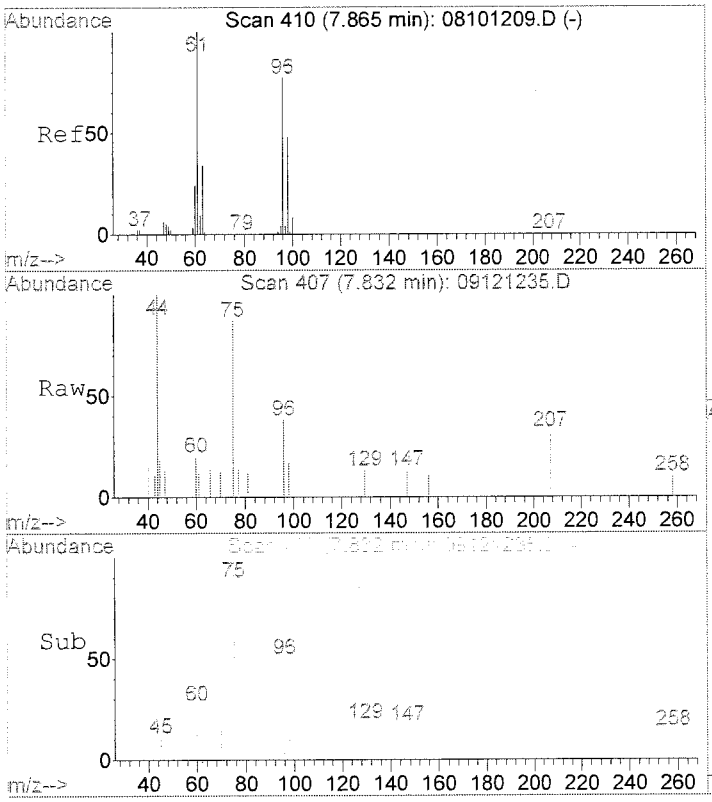
#16
Freon 113
Concen: 0.31 ug/L
RT: 7.07 min Scan# 330
Delta R.T. 0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion:101 Resp: 1694

Ion	Ratio	Lower	Upper
101	100		
151	66.2	59.6	89.4
153	34.0	37.9	56.9#

NJM



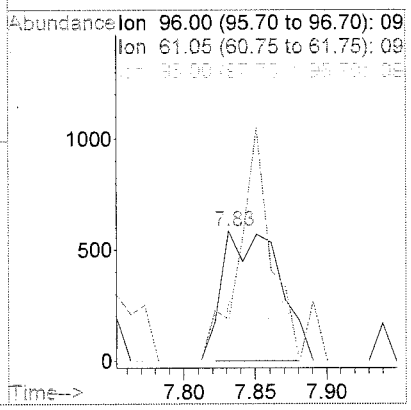


#18
trans-1,2-Dichloroethene
Concen: 0.27 ug/L
RT: 7.83 min Scan# 407
Delta R.T. -0.03 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

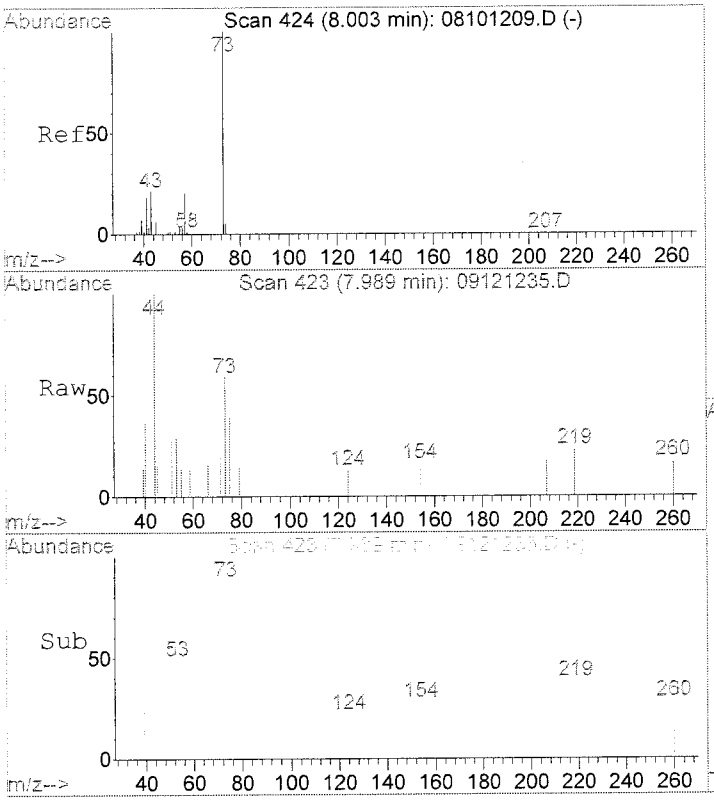
Tgt Ion: 96 Resp: 1633

Ion	Ratio	Lower	Upper
96	100		
61	109.4	111.4	167.0#
98	49.0	51.4	77.2#

NJM



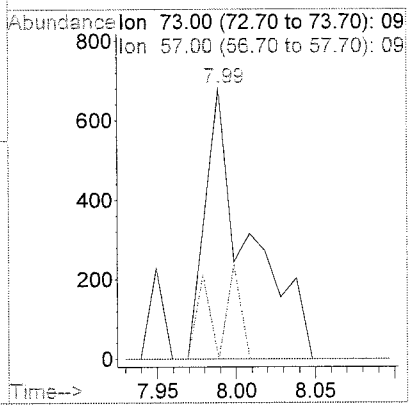
MM



#19
MTBE
Concen: 0.15 ug/L
RT: 7.99 min Scan# 423
Delta R.T. -0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 73 Resp: 1297

Ion	Ratio	Lower	Upper
73	100		
57	9.6	17.3	25.9#



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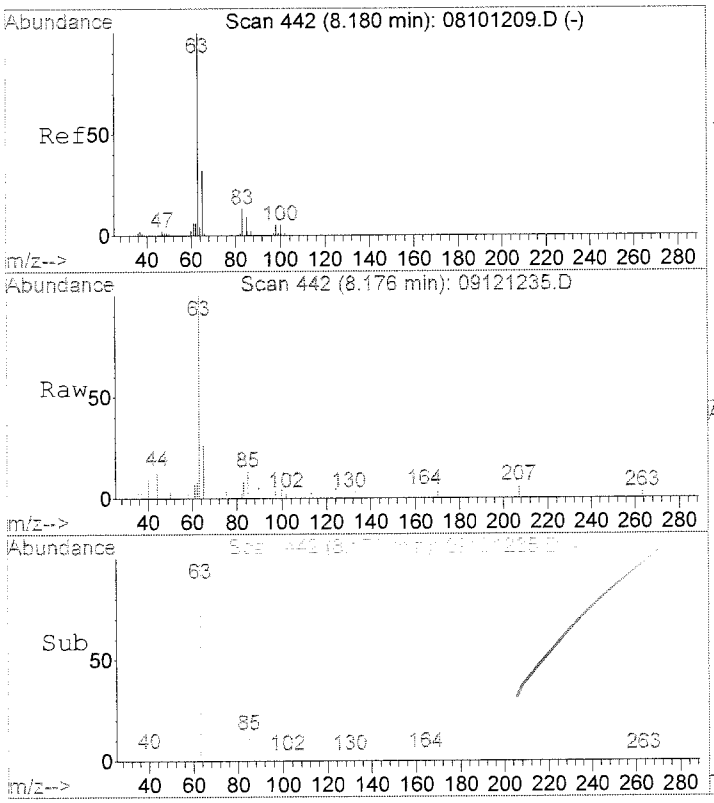
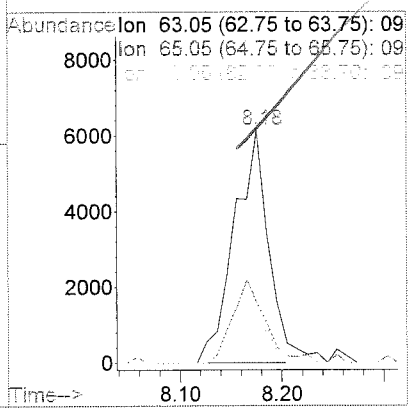


#20
1,1-Dichloroethane
Concen: 1.57 ug/L
RT: 8.18 min Scan# 442
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 63 Resp: 14698

Ion	Ratio	Lower	Upper
63	100		
65	33.7	26.0	39.0
83	13.7	10.6	16.0



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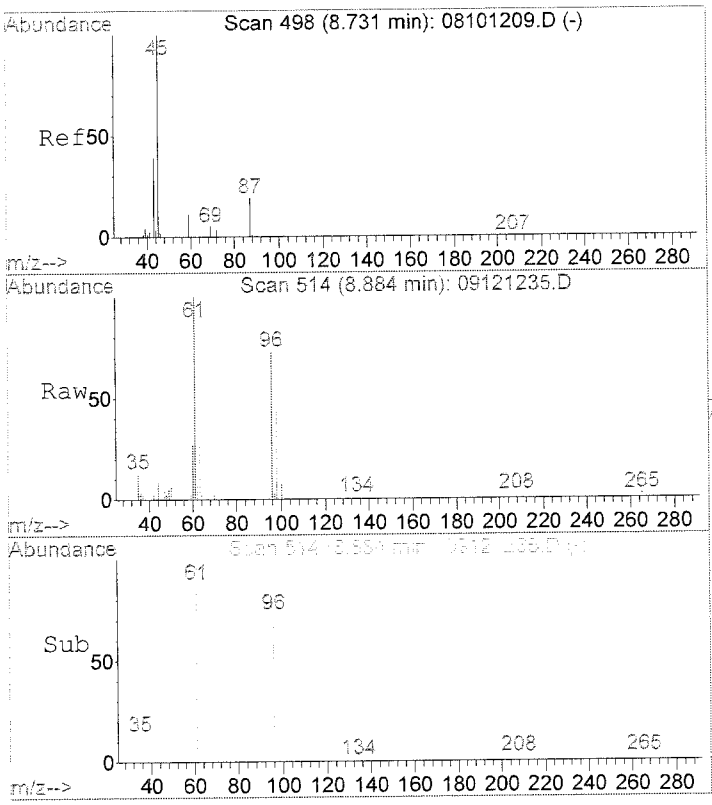
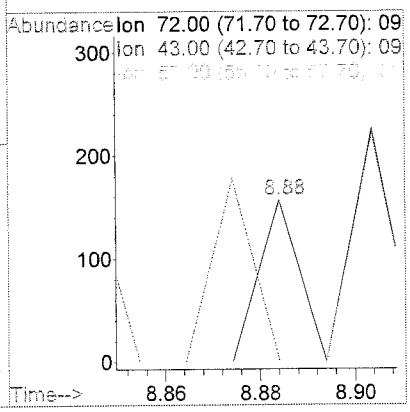
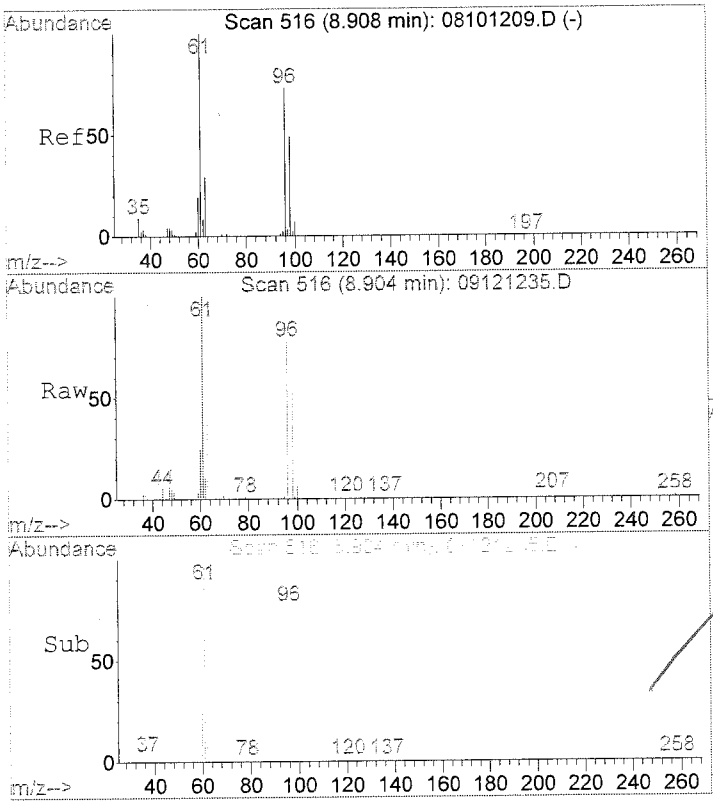


#23
2-Butanone (MEK)
Concen: 0.25 ug/L
RT: 8.88 min Scan# 514
Delta R.T. 0.15 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 72 Resp: 93

Ion	Ratio	Lower	Upper
72	100		
43	325.8	1366.5	2049.7#
57	0.0	0.0	0.0

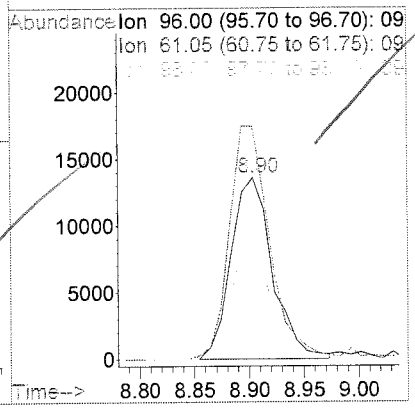


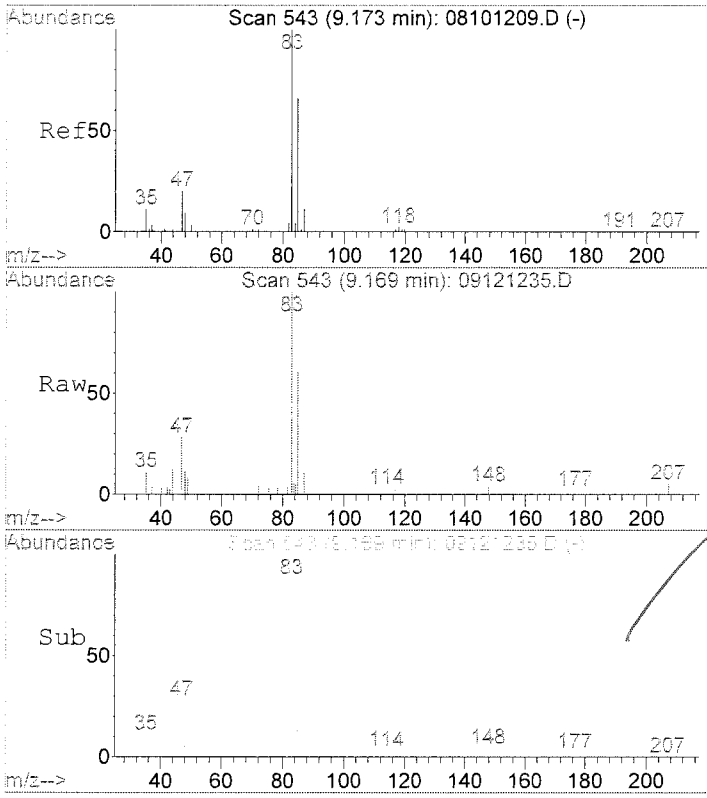


#25
cis-1,2-Dichloroethene
Concen: 6.52 ug/L
RT: 8.90 min Scan# 516
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 96 Resp: 35796

Ion	Ratio	Lower	Upper
96	100		
61	125.1	103.2	154.8
98	63.9	51.4	77.2

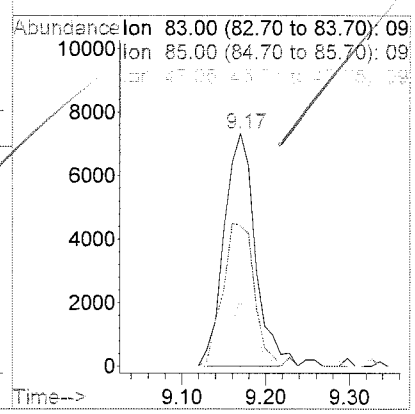


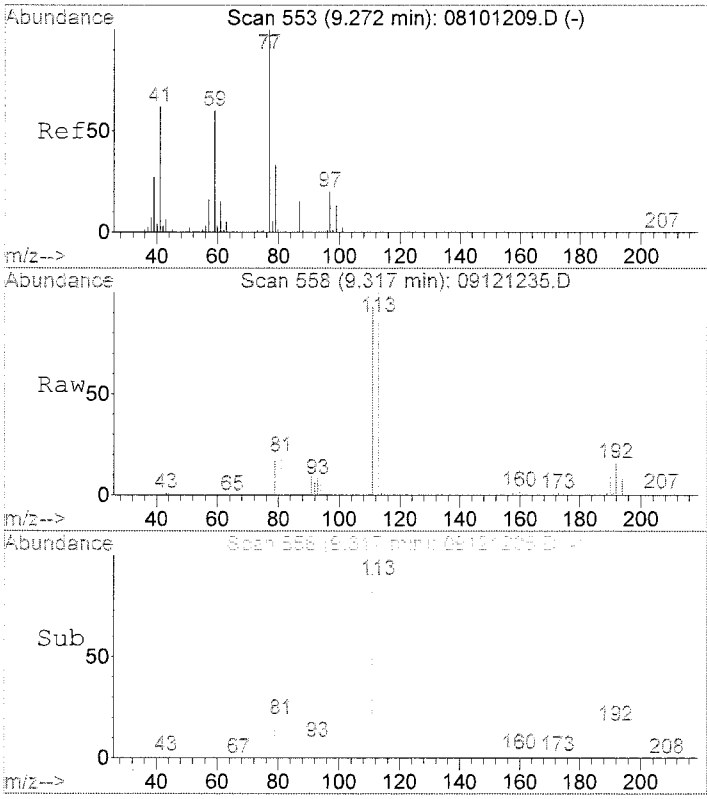


#27
Chloroform
Concen: 2.36 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 83 Resp: 19357

Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.6	77.4
47	24.2	18.9	28.3

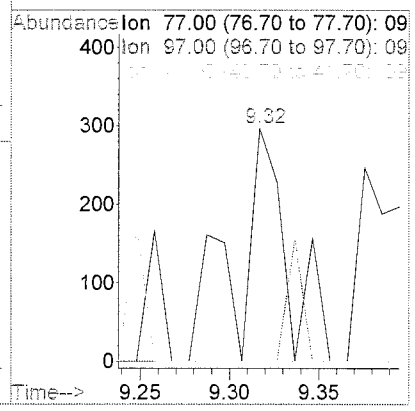




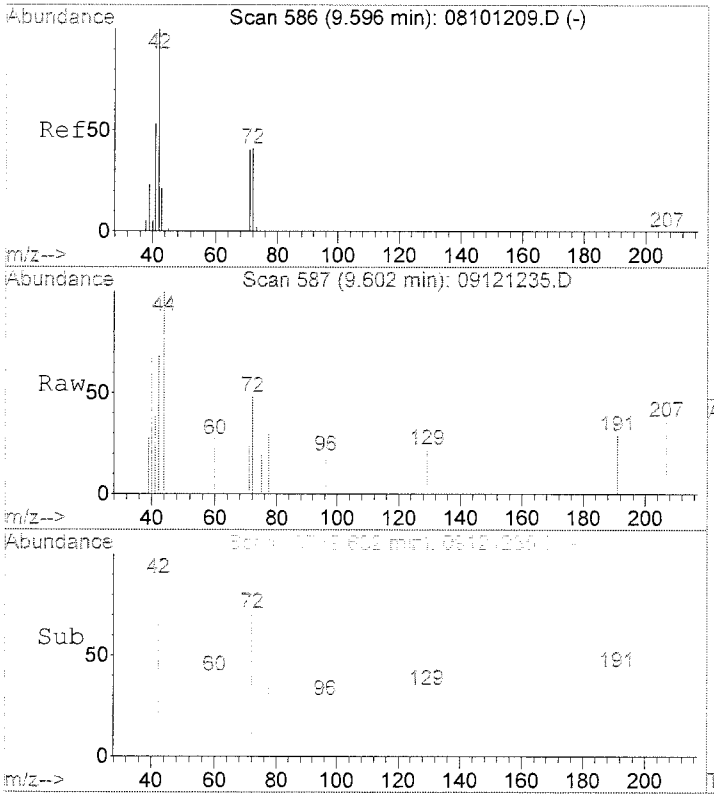
#28
2,2-Dichloropropane
Concen: 0.09 ug/L
RT: 9.32 min Scan# 558
Delta R.T. 0.05 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 77 Resp: 587

Ion	Ratio	Lower	Upper
77	100		
97	15.7	16.9	25.3#
41	17.2	64.1	96.1#



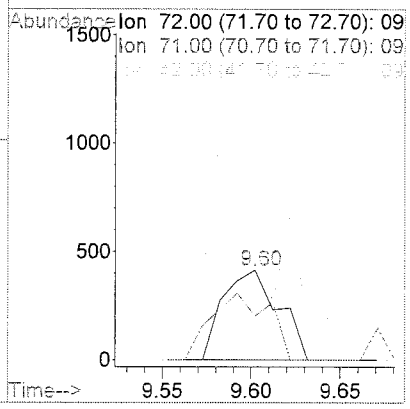
MM

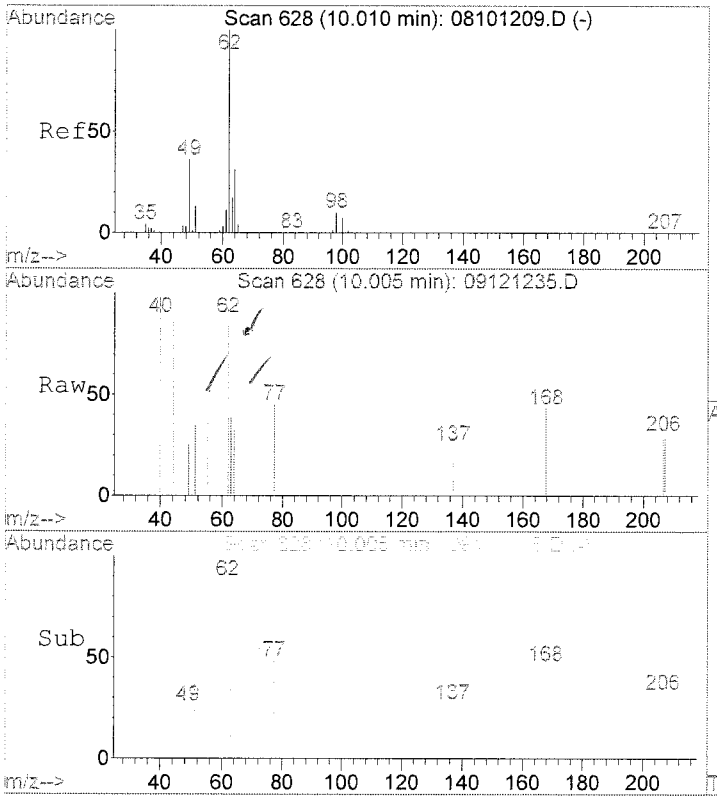


#31
Tetrahydrofuran
Concen: 2.65 ug/L
RT: 9.60 min Scan# 587
Delta R.T. 0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 72 Resp: 900

Ion	Ratio	Lower	Upper
72	100		
71	76.8	79.1	118.7#
42	279.6	217.1	325.7

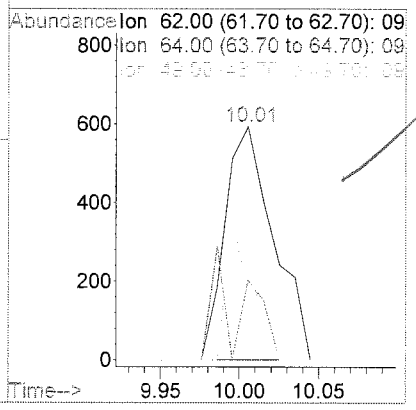




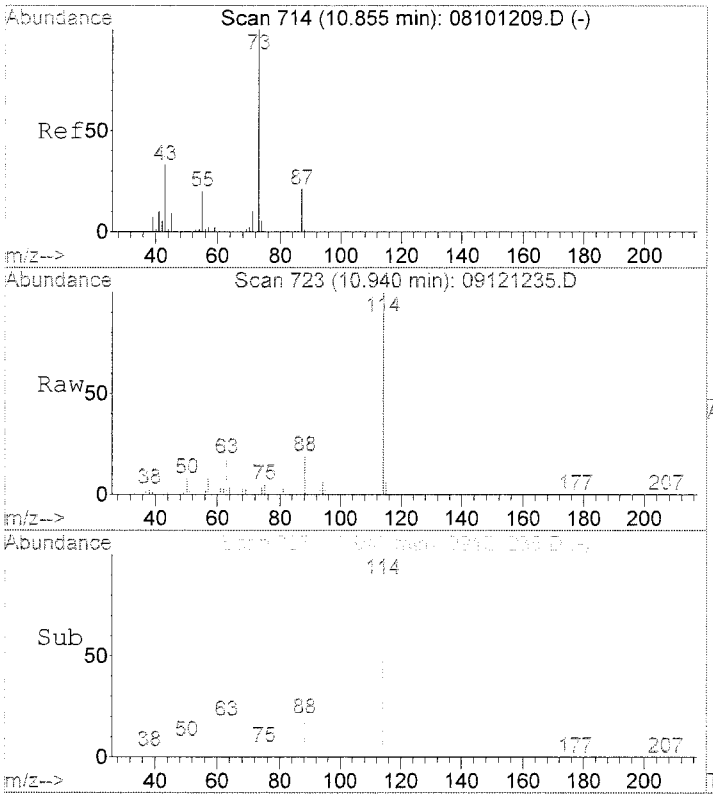
#32
1,2-Dichloroethane
Concen: 0.32 ug/L
RT: 10.01 min Scan# 628
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 62 Resp: 1264

Ion	Ratio	Lower	Upper
62	100		
64	16.5	26.4	39.6#
49	0.0	28.0	42.0#



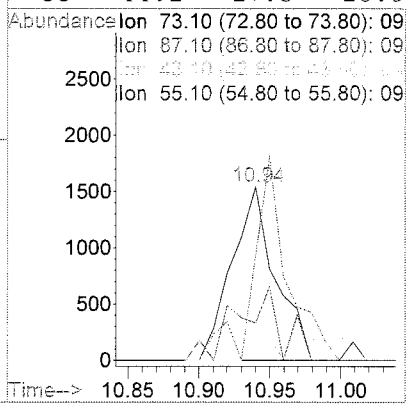
MM



#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

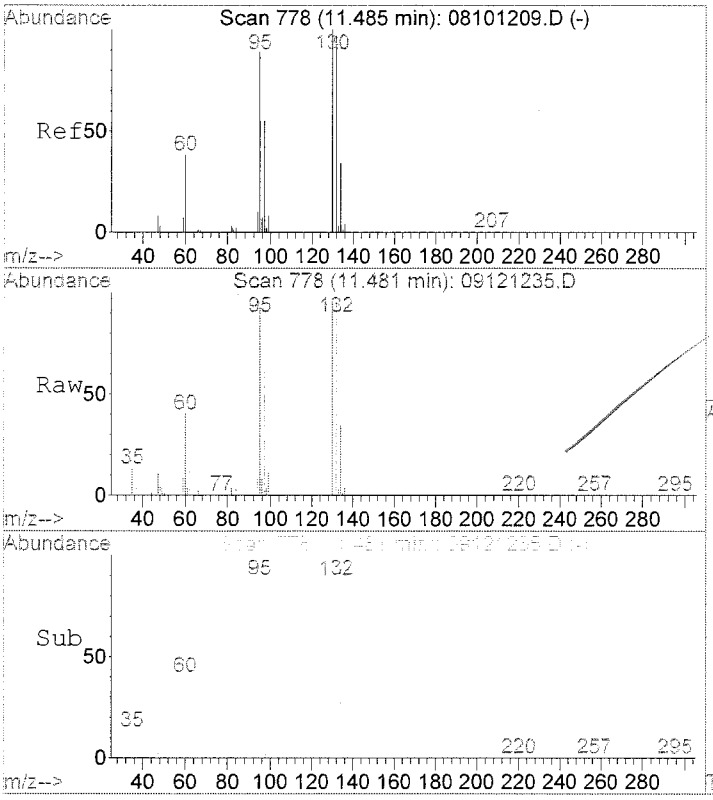
Tgt Ion: 73 Resp: 3269

Ion	Ratio	Lower	Upper
73	100		
87	92.7	16.4	24.6#
43	8.6	27.0	40.4#
55	44.1	17.3	25.9#



WRT

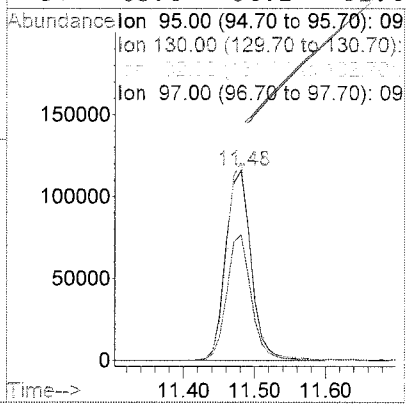
J



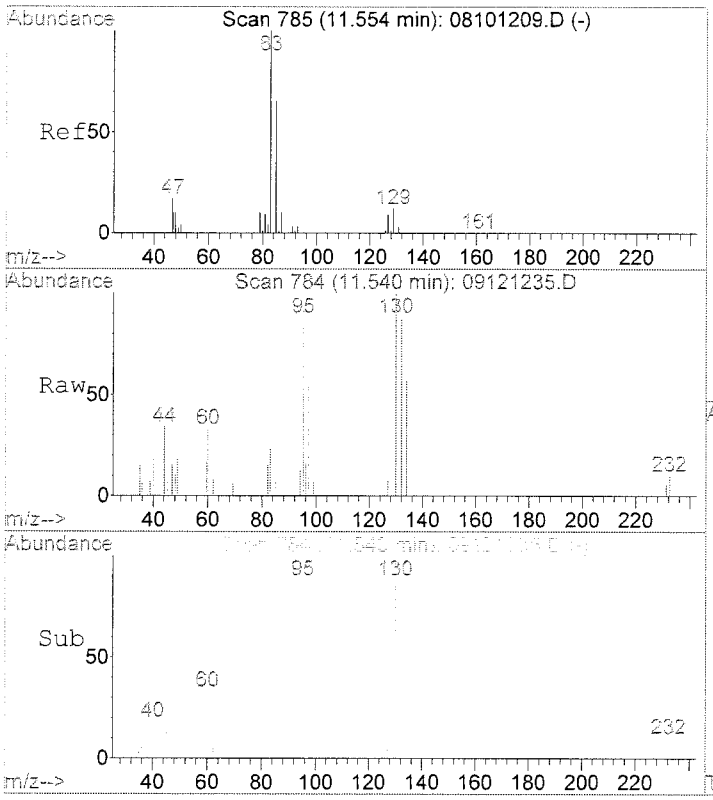
#41
Trichloroethene
Concen: 55.69 ug/L
RT: 11.48 min Scan# 778
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 95 Resp: 284580

Ion	Ratio	Lower	Upper
95	100		
130	103.2	87.3	130.9
132	101.8	84.2	126.4
97	63.6	54.2	81.4



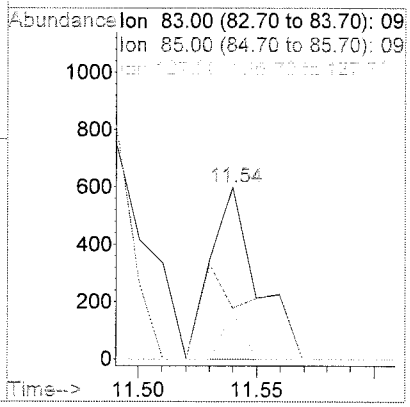
MM

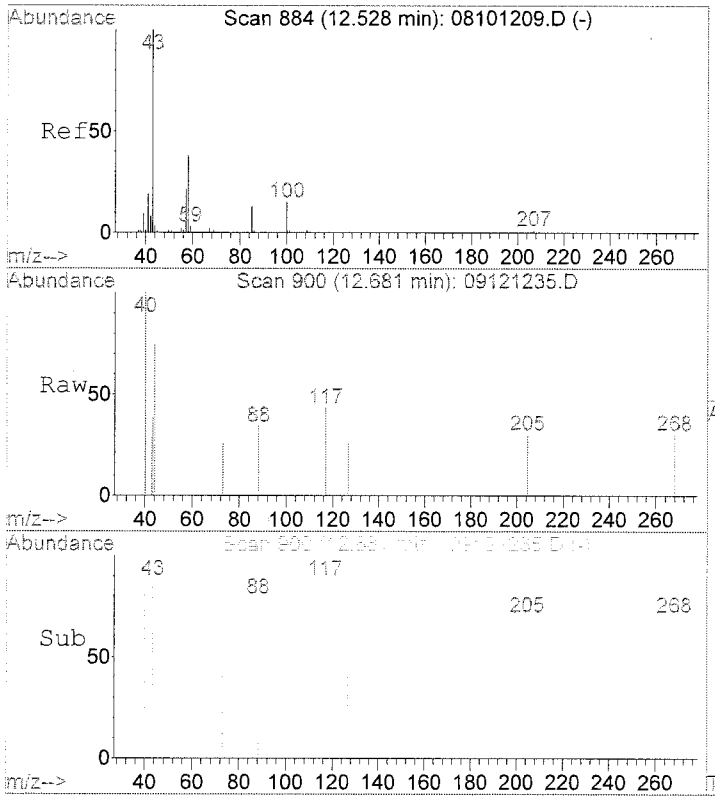


#42
Bromodichloromethane
Concen: 0.16 ug/L
RT: 11.54 min Scan# 784
Delta R.T. -0.01 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 83 Resp: 818

Ion	Ratio	Lower	Upper
83	100		
85	68.3	52.5	78.7
127	12.1	7.0	10.6#

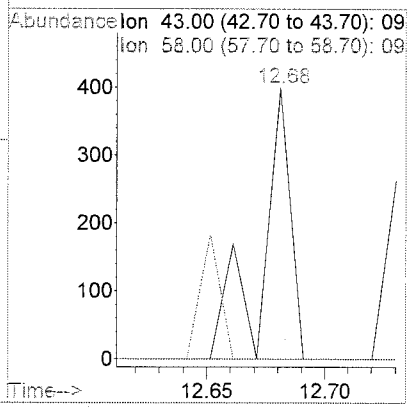


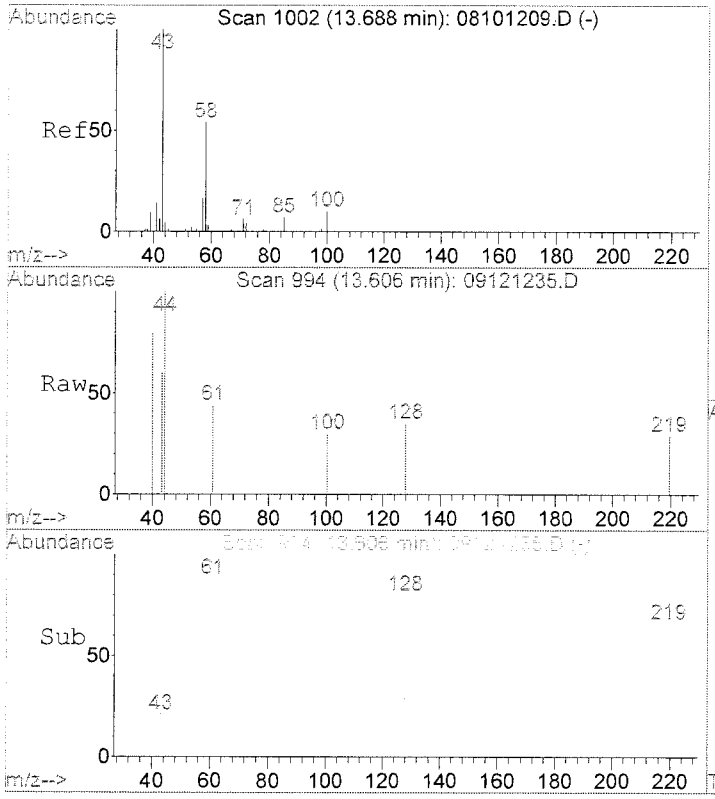


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.68 min Scan# 900
Delta R.T. 0.15 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 43 Resp: 336

Ion	Ratio	Lower	Upper
43	100		
58	32.1	30.2	45.4

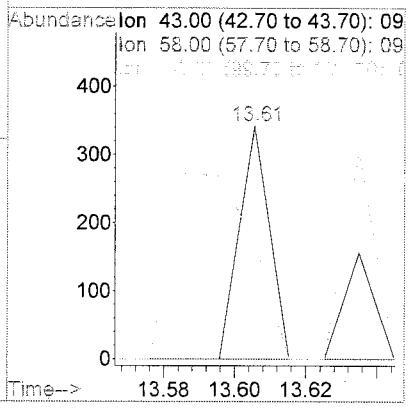


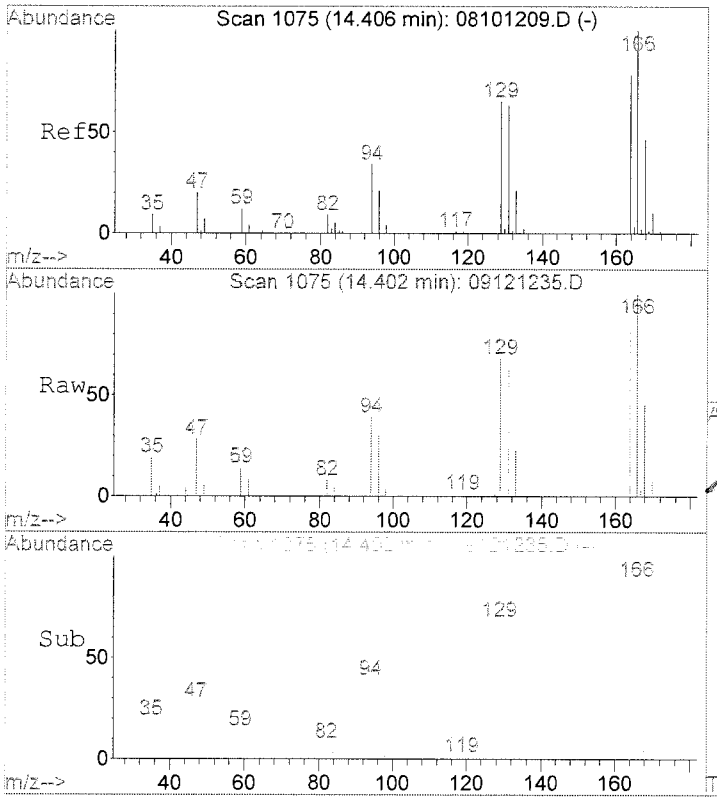


#52
2-Hexanone
Concen: 0.10 ug/L
RT: 13.61 min Scan# 994
Delta R.T. -0.08 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 43 Resp: 202

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#

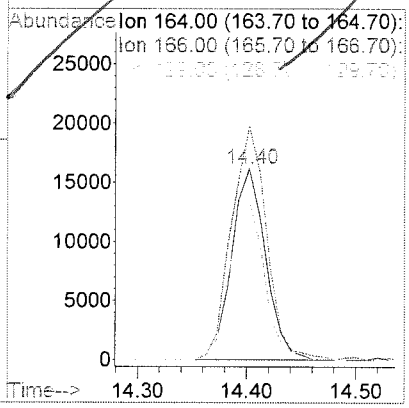


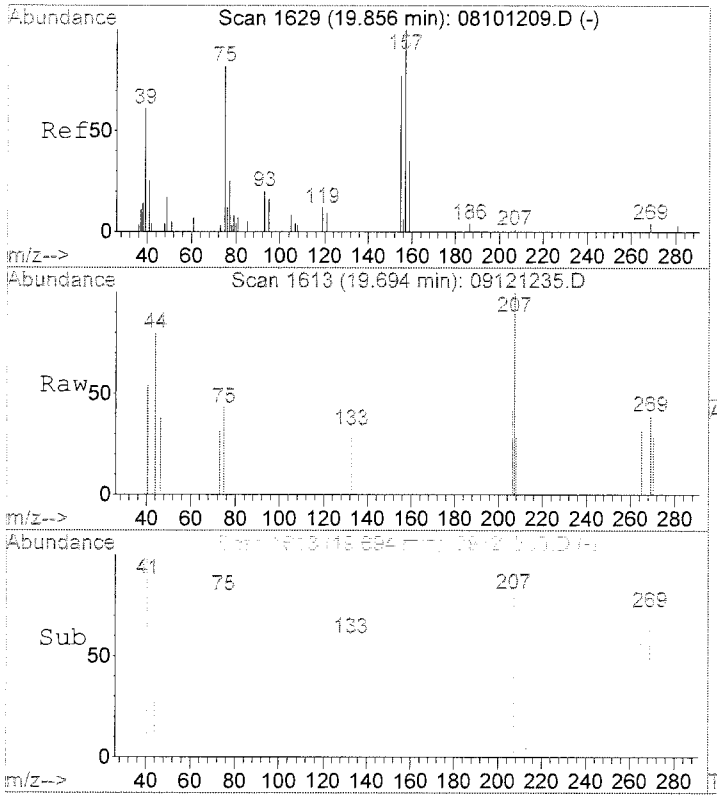


#55
Tetrachloroethene
Concen: 7.54 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion:164 Resp: 34883

Ion	Ratio	Lower	Upper
164	100		
166	127.3	102.1	153.1
129	85.0	66.5	99.7

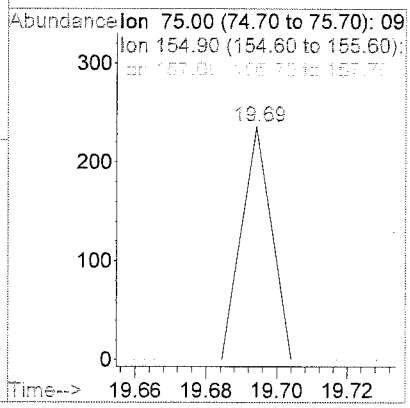


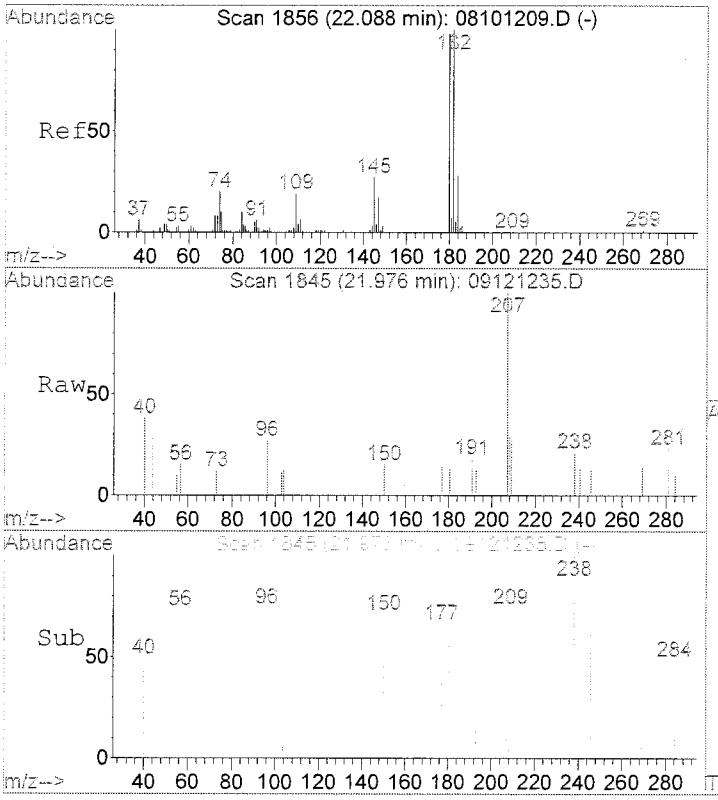


#82
1,2-Dibromo-3-chloropropane
Concen: 0.66 ug/L
RT: 19.69 min Scan# 1613
Delta R.T. -0.16 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion: 75 Resp: 139

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

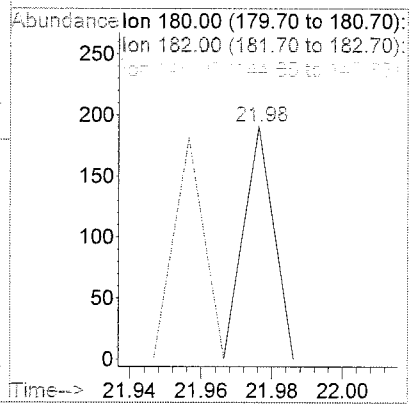




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 21.98 min Scan# 1845
Delta R.T. -0.11 min
Lab File: 09121235.D
Acq: 12 Sep 2012 10:46 pm

Tgt Ion:180 Resp: 113

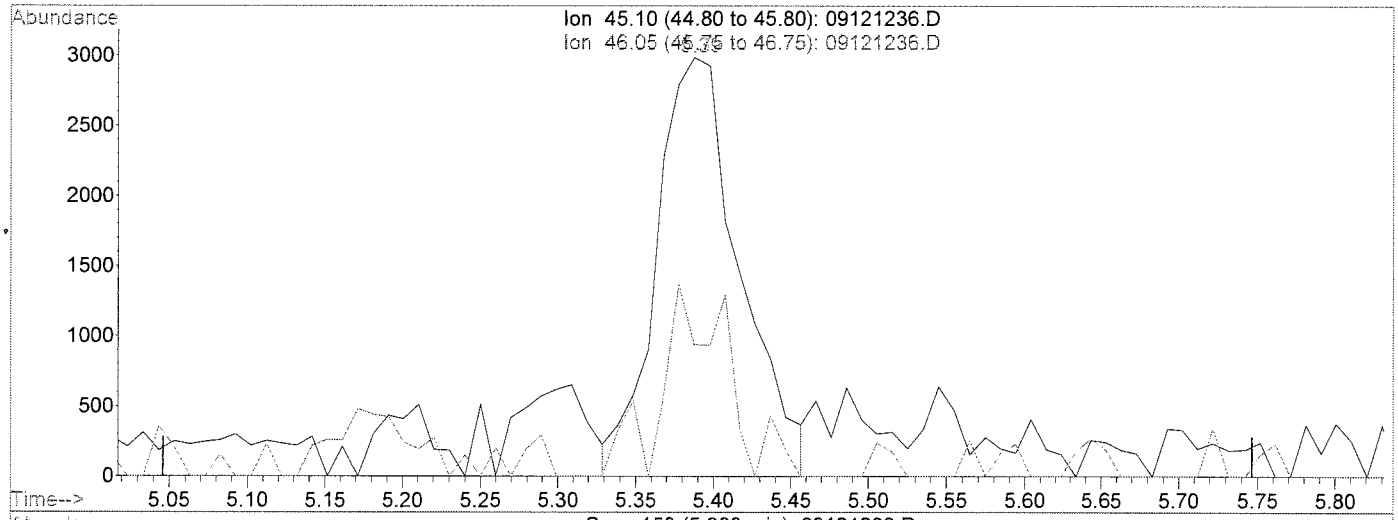
Ion	Ratio	Lower	Upper
180	100		
182	94.7	78.9	118.3
145	0.0	23.2	34.8#

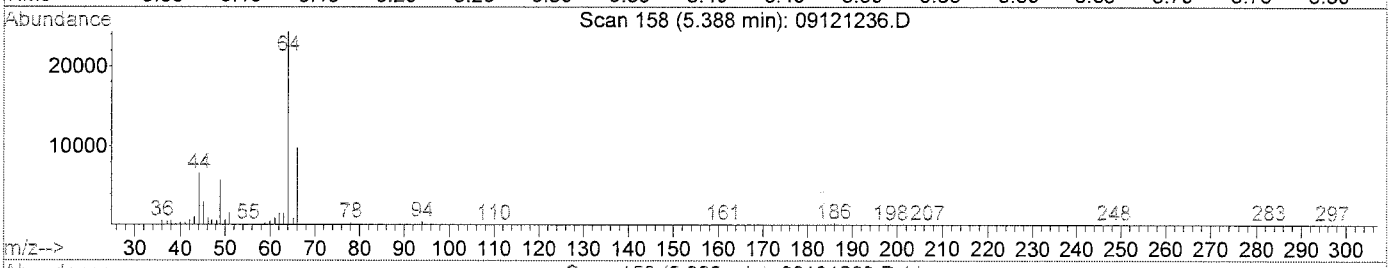


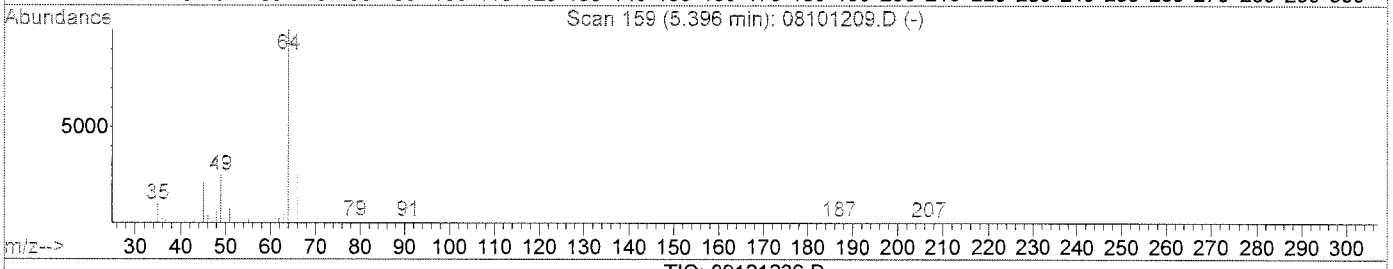
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121236.D

(2) Ethanol (T)

5.39min 378.27ug/L

response 11092

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	33.54#
0.00	0.00	0.00
0.00	0.00	0.00

9/13/12

B

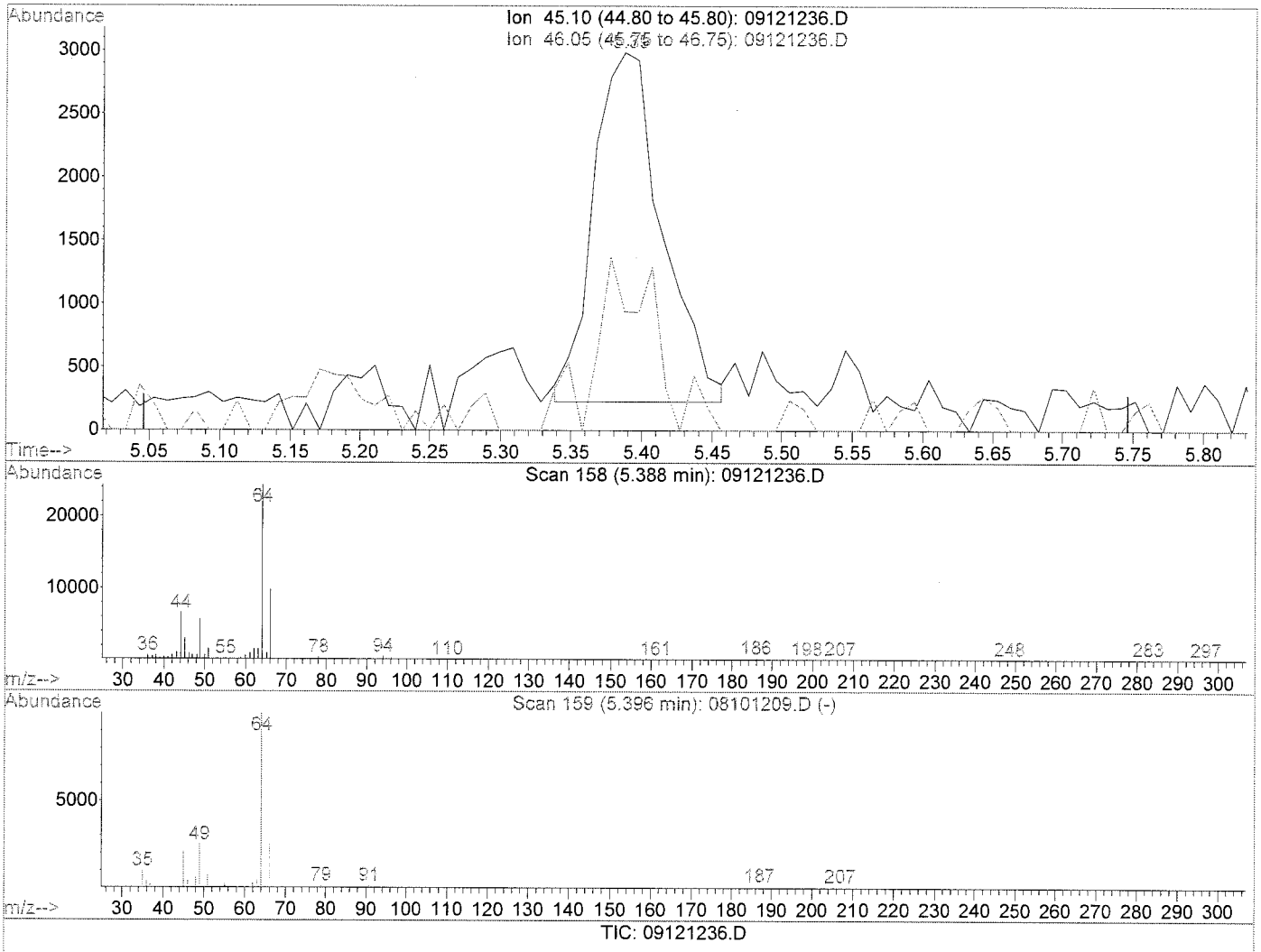
BL

MM 9/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(2) Ethanol (T)

5.39min 315.62ug/L m

response 9255

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	40.19
0.00	0.00	0.00
0.00	0.00	0.00

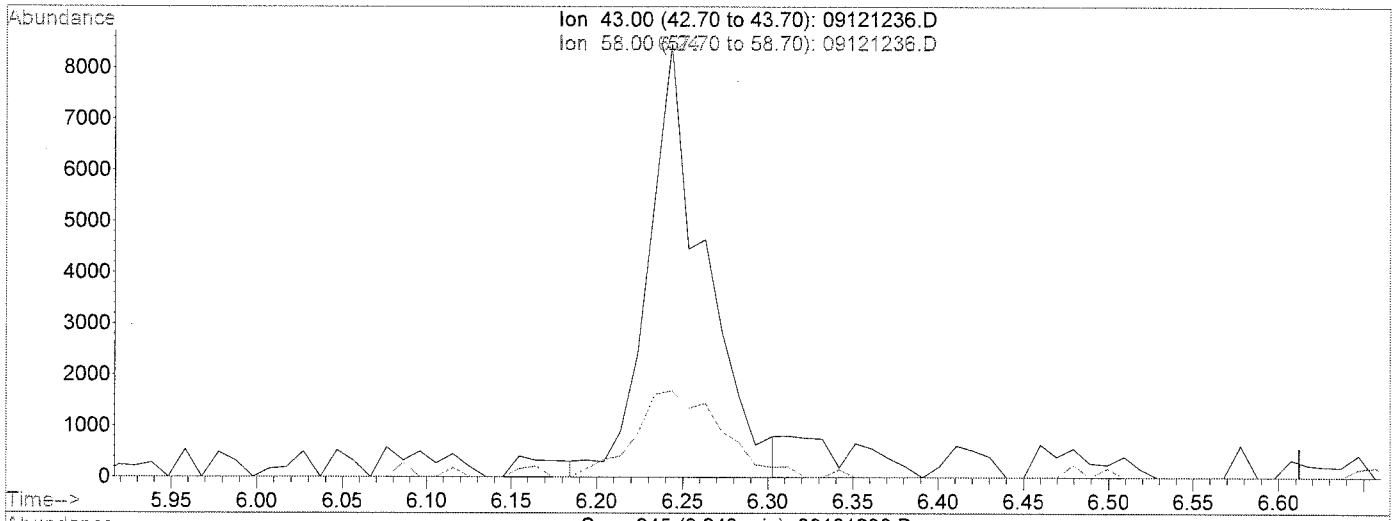
9/13/12

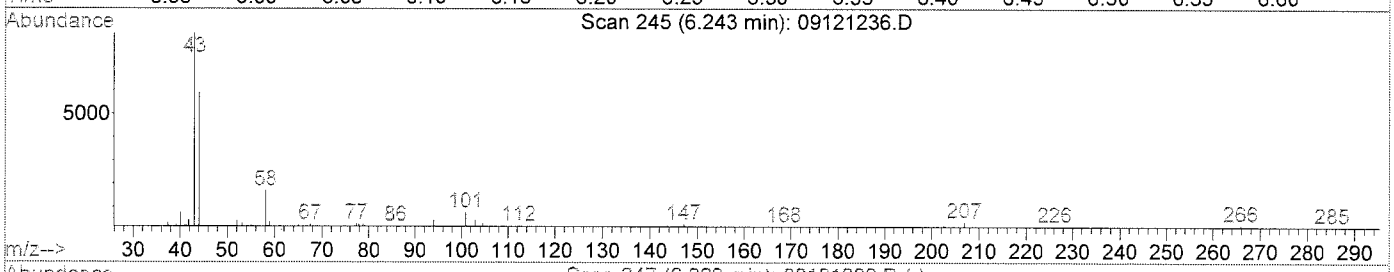
MNM 9/13/12

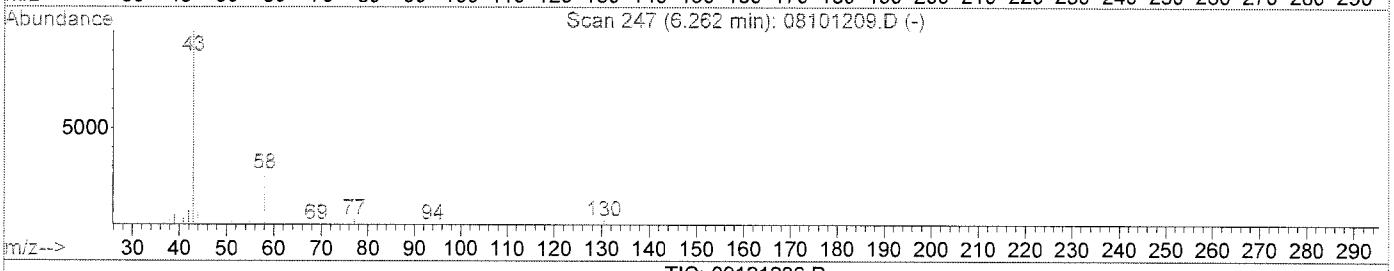
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121236.D

9/13/12

(12) Acetone (T)

6.24min 17.96ug/L

response 19362

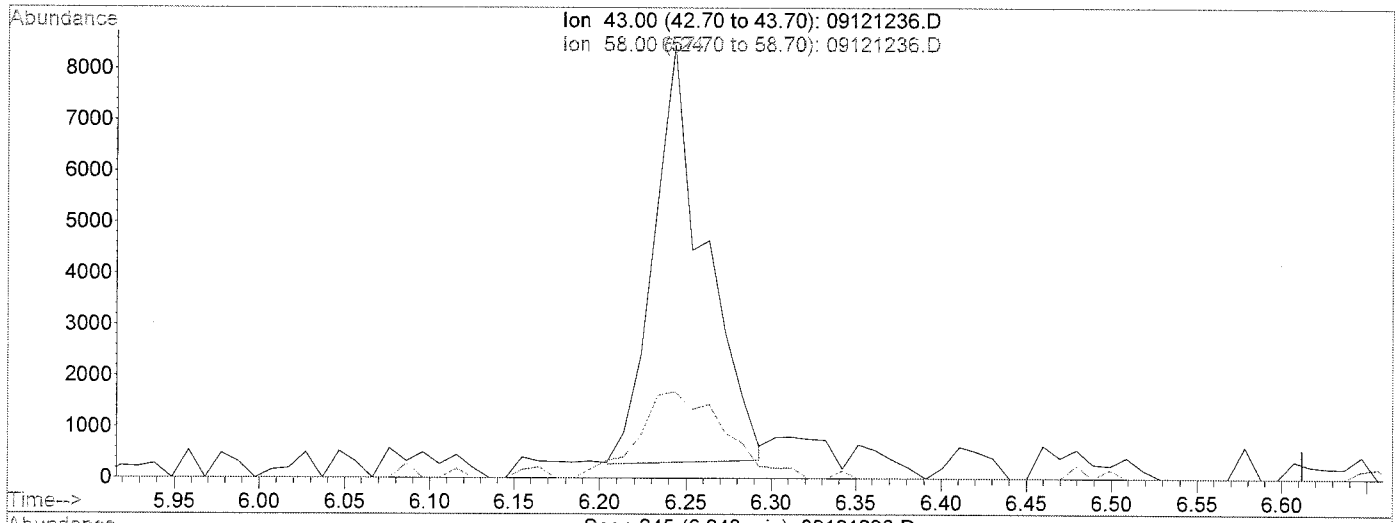
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	30.73
0.00	0.00	0.00
0.00	0.00	0.00

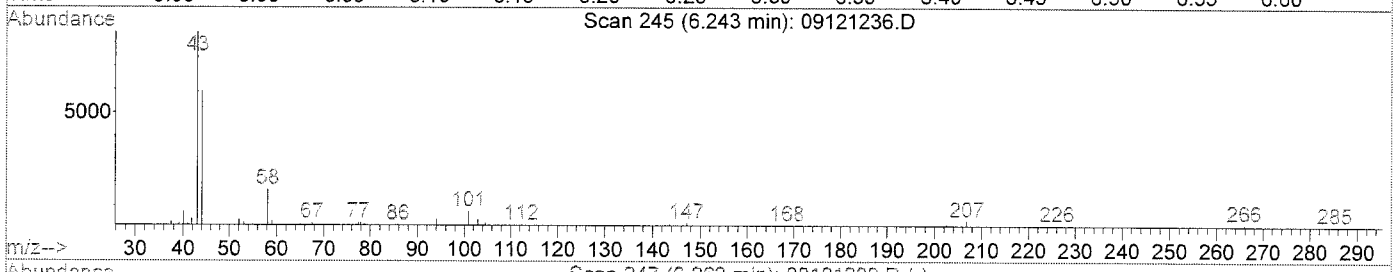
BL
MM 9/13/12

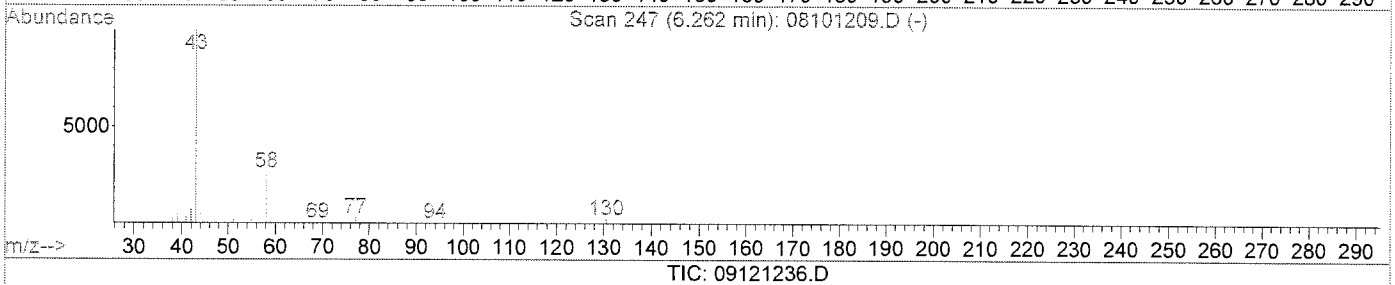
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121236.D

(12) Acetone (T)

6.24min 15.63ug/L m

response 16852

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.30
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/13/12 ✓

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	54390	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	256123	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	351040	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	257410	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	106285	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	118603	26.48 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.92%	
48) Toluene-d8	13.32	98	351343	25.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.36%	
62) 4-Bromofluorobenzene	16.95	95	106321	26.73 ug/L	0.00
Spiked Amount 25.000			Recovery	= 106.92%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	9255m	315.62 ug/L	
3) tert-Butanol (TBA)	6.82	59	47651	149.77 ug/L	99
5) Dichlorodifluoromethane	4.10	85	289840	30.84 ug/L	100
6) Chloromethane	4.35	50	245659	26.86 ug/L	99
7) Vinyl Chloride	4.65	62	221207	26.43 ug/L	99
8) 1,3-Butadiene	4.78	54	168394	37.20 ug/L	97
9) Bromomethane	5.18	94	140592	27.50 ug/L	94
10) Chloroethane	5.38	64	109541	26.39 ug/L	99
11) Trichlorofluoromethane	6.10	101	254636	34.42 ug/L	99
12) Acetone	6.24	43	16852m	15.63 ug/L	
13) Iodomethane	6.85	142	271123	31.36 ug/L #	88
14) 1,1-Dichloroethene	6.79	96	155158	30.13 ug/L	97
15) Methylene Chloride	6.98	84	118162	25.77 ug/L	97
16) Freon 113	7.06	101	161675	30.31 ug/L	99
17) Carbon disulfide	7.29	76	463518	27.68 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	143182	23.98 ug/L	98
19) MTBE	7.98	73	217611	25.77 ug/L	95
20) 1,1-Dichloroethane	8.17	63	231538	24.97 ug/L	99
21) Vinyl Acetate	8.34	43	125500	19.09 ug/L	100
22) n-Hexane	8.68	86	31508	21.50 ug/L	93
23) 2-Butanone (MEK)	8.71	72	6457	17.50 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.73	45	344513	22.01 ug/L	98
25) cis-1,2-Dichloroethene	8.90	96	174192	32.04 ug/L	99
26) Bromochloromethane	9.11	128	49491	22.94 ug/L	91
27) Chloroform	9.16	83	225807	27.84 ug/L	99
28) 2,2-Dichloropropane	9.26	77	159025	25.90 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	268145	23.72 ug/L	98
31) Tetrahydrofuran	9.60	72	6503	19.38 ug/L #	73
32) 1,2-Dichloroethane	10.00	62	106789	27.29 ug/L	94
33) 1,1,1-Trichloroethane	10.13	97	191595	28.20 ug/L	97
34) (TAME) tert-Amyl methyl et	10.85	73	215193	23.62 ug/L	99
36) 1,1-Dichloropropene	10.36	75	157173	20.94 ug/L	98
37) Carbon Tetrachloride	10.60	117	174346	29.62 ug/L	98
38) Benzene	10.65	78	434604	24.26 ug/L	99
39) Dibromomethane	11.38	93	52606	24.88 ug/L	94
40) 1,2-Dichloropropane	11.43	63	96032	22.50 ug/L	92

(#) = qualifier out of range (m) = manual integration

MM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	436809	86.99 ug/L	98
42)	Bromodichloromethane	11.55	83	128713	26.20 ug/L	99
43)	2-Chlorovinylethylether	12.17	63	279	0.17 ug/L #	72
44)	cis-1,3-Dichloropropene	12.38	75	138427	24.17 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	53794	20.92 ug/L	99
46)	trans-1,3-Dichloropropene	12.95	75	117024	26.87 ug/L	98
47)	1,1,2-Trichloroethane	13.16	97	60611	24.41 ug/L	96
49)	Toluene	13.41	92	255549	25.08 ug/L	98
51)	1,3-Dichloropropane	13.48	76	100506	21.99 ug/L	98
52)	2-Hexanone	13.68	43	30605	16.02 ug/L #	87
53)	Dibromochloromethane	13.85	129	87880	26.52 ug/L	97
54)	1,2-Dibromoethane	14.18	107	62323	22.44 ug/L	87
55)	Tetrachloroethene	14.40	164	144483	31.86 ug/L	98
56)	1,1,1,2-Tetrachloroethane	15.21	131	90783	24.98 ug/L	93
57)	Chlorobenzene	15.31	112	254479	24.08 ug/L	97
58)	Ethylbenzene	15.58	91	454695	24.63 ug/L	97
59)	m,p-Xylenes	15.84	106	172021	24.43 ug/L	98
60)	Styrene	16.29	104	217979	23.11 ug/L	98
61)	o-Xylene	16.38	106	167231	25.69 ug/L	99
64)	Bromoform	16.00	173	51103	27.93 ug/L	98
65)	1,1,2,2-Tetrachloroethane	16.38	83	66808	23.40 ug/L	96
66)	1,2,3-Trichloropropane	16.58	110	17075	24.82 ug/L	91
67)	trans-1,4-Dichloro-2-buten	16.61	53	11657	16.98 ug/L #	87
68)	Isopropylbenzene	16.89	105	442319	27.86 ug/L	99
69)	Bromobenzene	17.24	156	97565	25.22 ug/L	95
70)	n-Propylbenzene	17.50	91	525215	26.06 ug/L	99
71)	2-Chlorotoluene	17.63	91	291978	26.80 ug/L	97
72)	4-Chlorotoluene	17.74	91	272982	25.62 ug/L	98
73)	1,3,5-Trimethylbenzene	17.90	105	325993	26.33 ug/L	99
74)	tert-Butylbenzene	18.29	119	295707	26.74 ug/L	95
75)	1,2,4-Trimethylbenzene	18.45	105	306075	26.14 ug/L	95
76)	sec-Butylbenzene	18.61	105	458687	25.64 ug/L	100
77)	1,3-Dichlorobenzene	18.72	146	174853	24.84 ug/L	96
78)	1,4-Dichlorobenzene	18.80	146	162217	23.51 ug/L	98
79)	p-Isopropyltoluene	18.85	119	348904	26.02 ug/L	98
80)	1,2-Dichlorobenzene	19.27	146	149332	26.05 ug/L	98
81)	n-Butylbenzene	19.38	91	303550	23.61 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	7725	26.85 ug/L	96
83)	1,2,4-Trichlorobenzene	21.50	180	84140	27.38 ug/L	94
84)	Napthalene	21.82	128	122472	24.91 ug/L	99
85)	Hexachlorobutadiene	21.88	225	67555	32.45 ug/L	97
86)	1,2,3-Trichlorobenzene	22.08	180	66387	26.72 ug/L	96

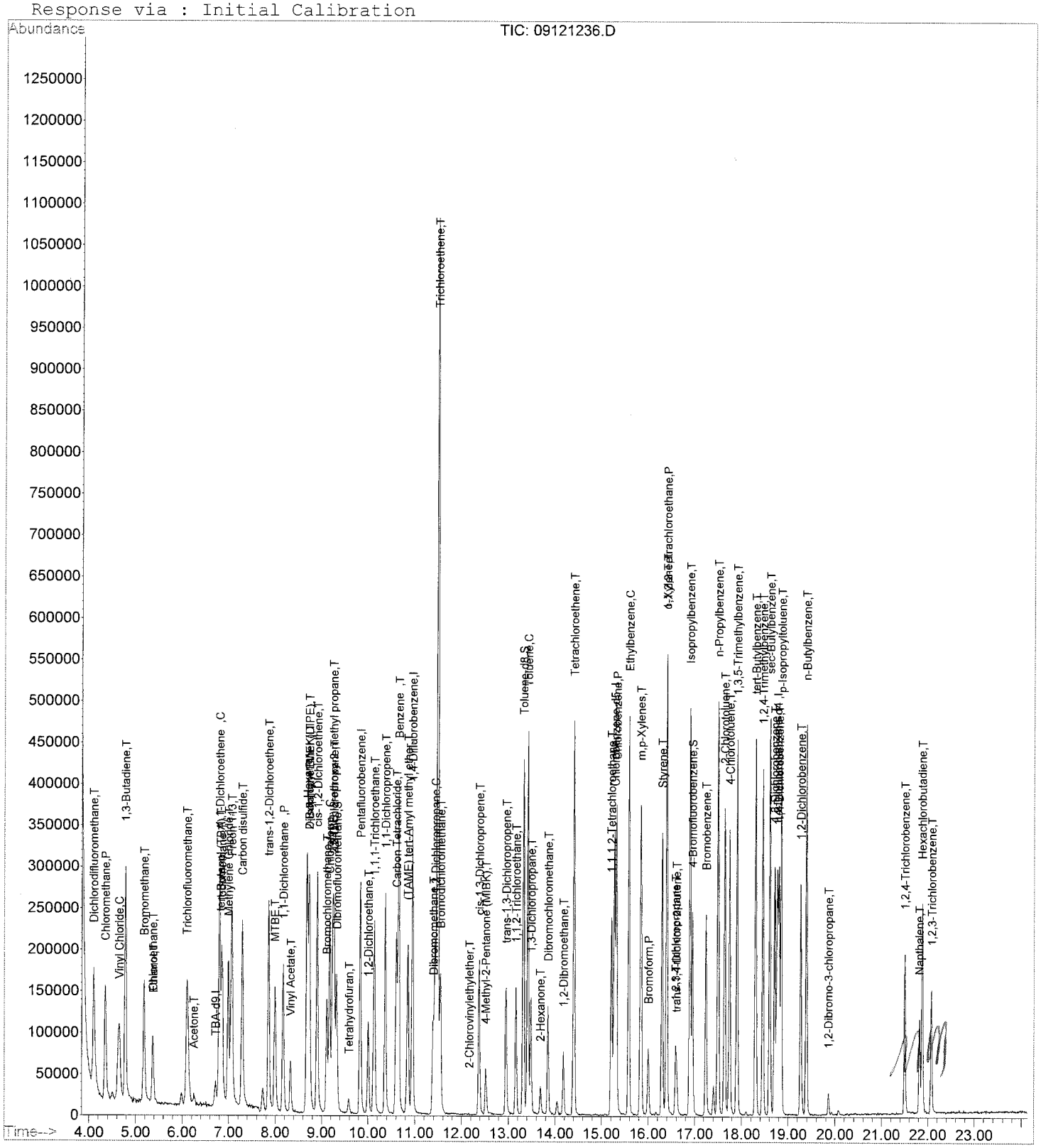
MM

(#) = qualifier out of range (m) = manual integration
09121236.D 081012.M Thu Sep 13 07:03:32 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121236.D Vial: 14
Acq On : 12 Sep 2012 11:18 pm Operator: MNM
Sample : 12I0394-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: 081012.RES

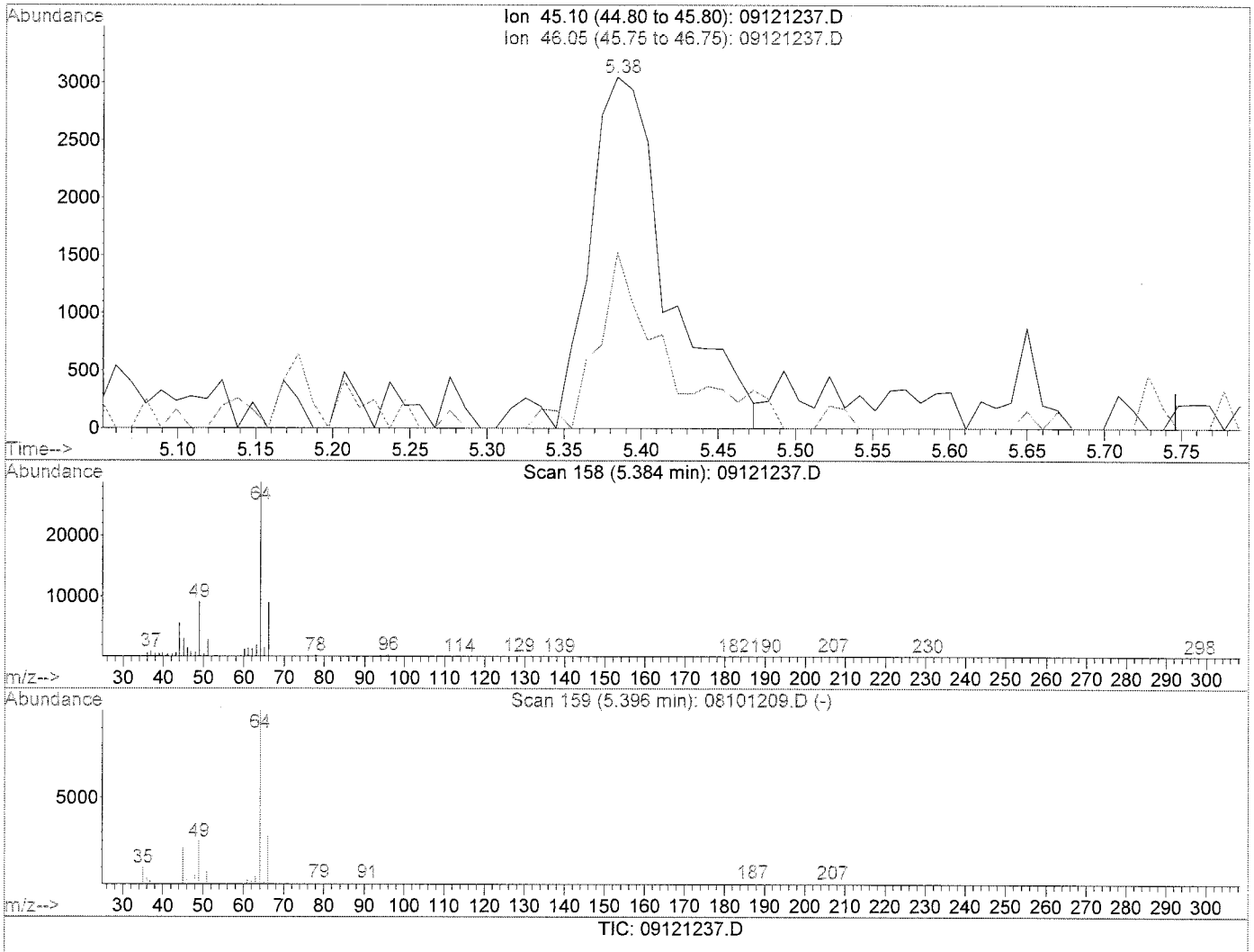
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(2) Ethanol (T)

5.38min 349.75ug/L

response 11006

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	34.54#
0.00	0.00	0.00
0.00	0.00	0.00

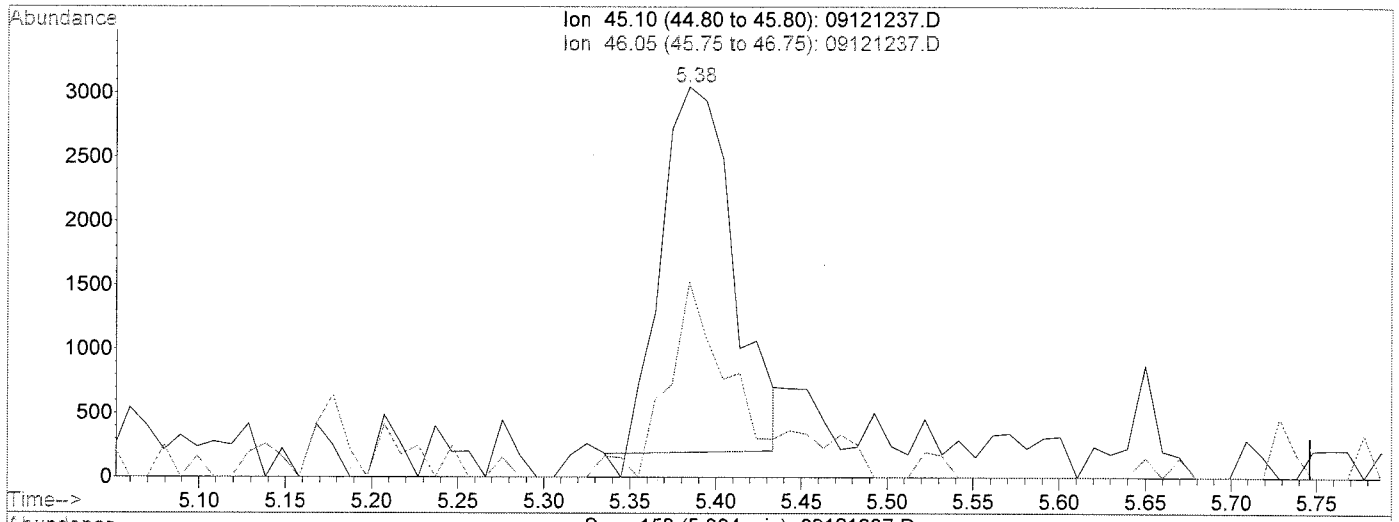
9/13/12

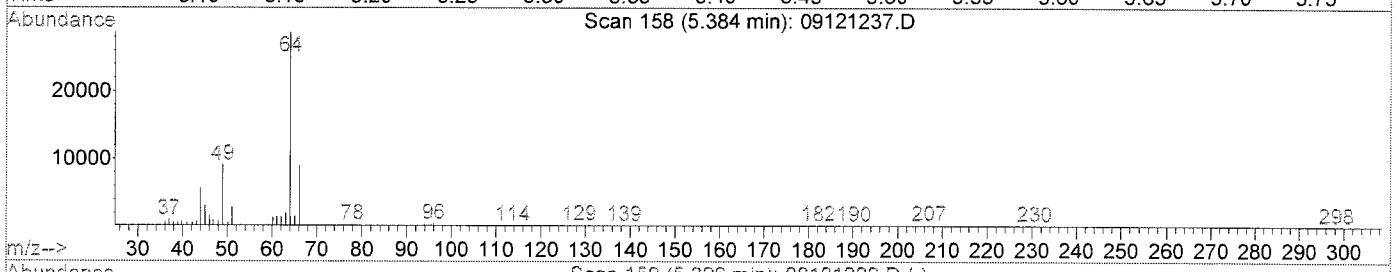
MNM 9/13/12

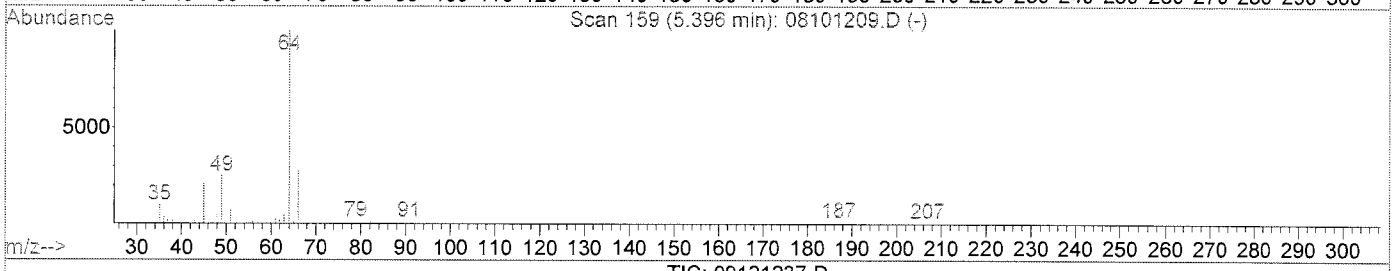
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121237.D

9/13/12

(2) Ethanol (T)

5.38min 262.90ug/L m

response 8273

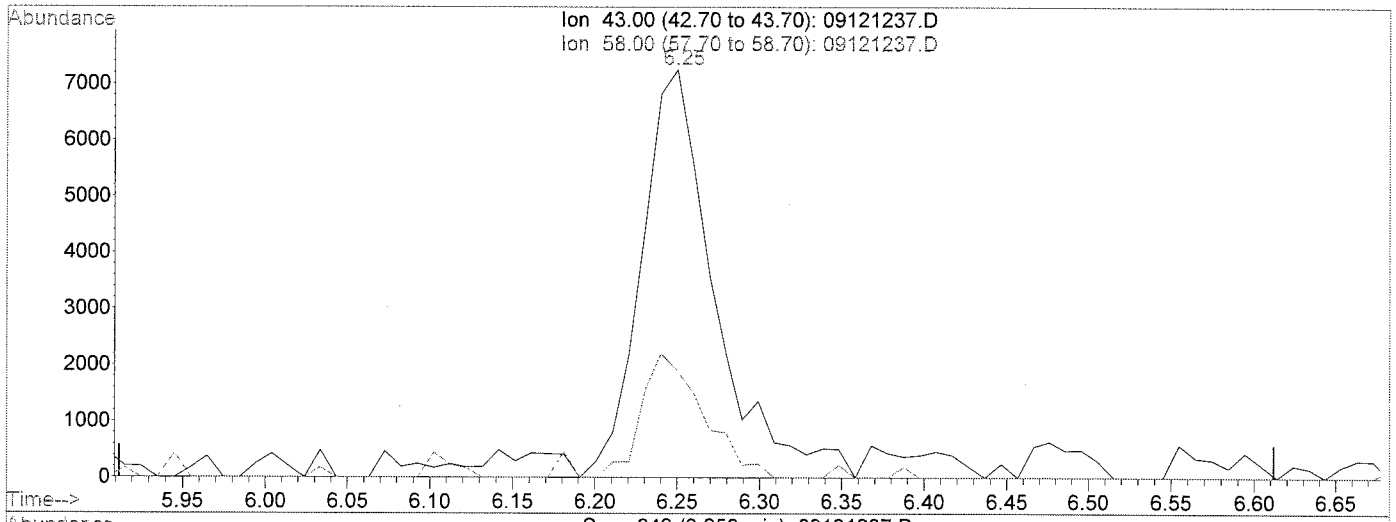
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	45.96
0.00	0.00	0.00
0.00	0.00	0.00

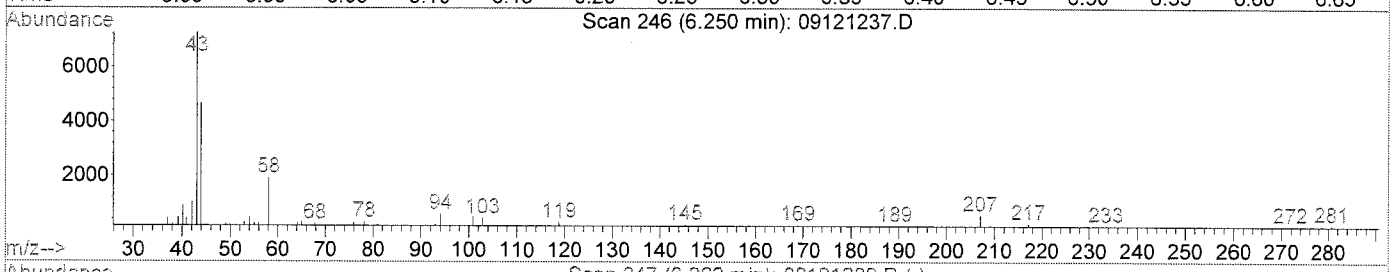
A MM 9/13/12

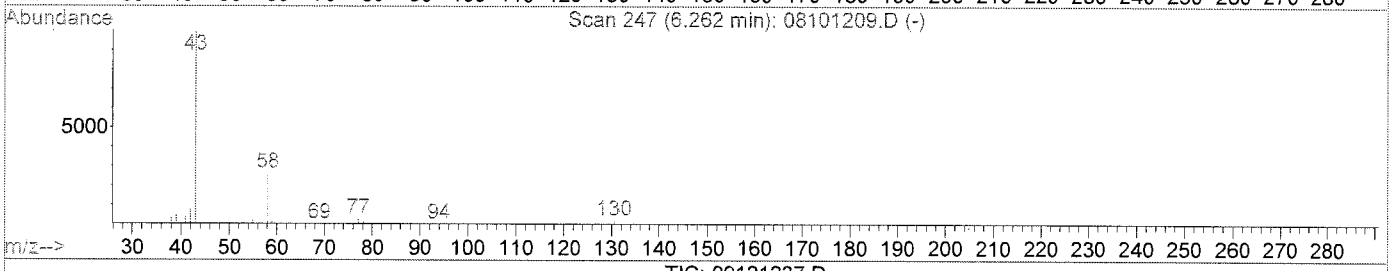
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121237.D

(12) Acetone (T)

6.25min 21.19ug/L

response 22461

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	25.76#
0.00	0.00	0.00
0.00	0.00	0.00

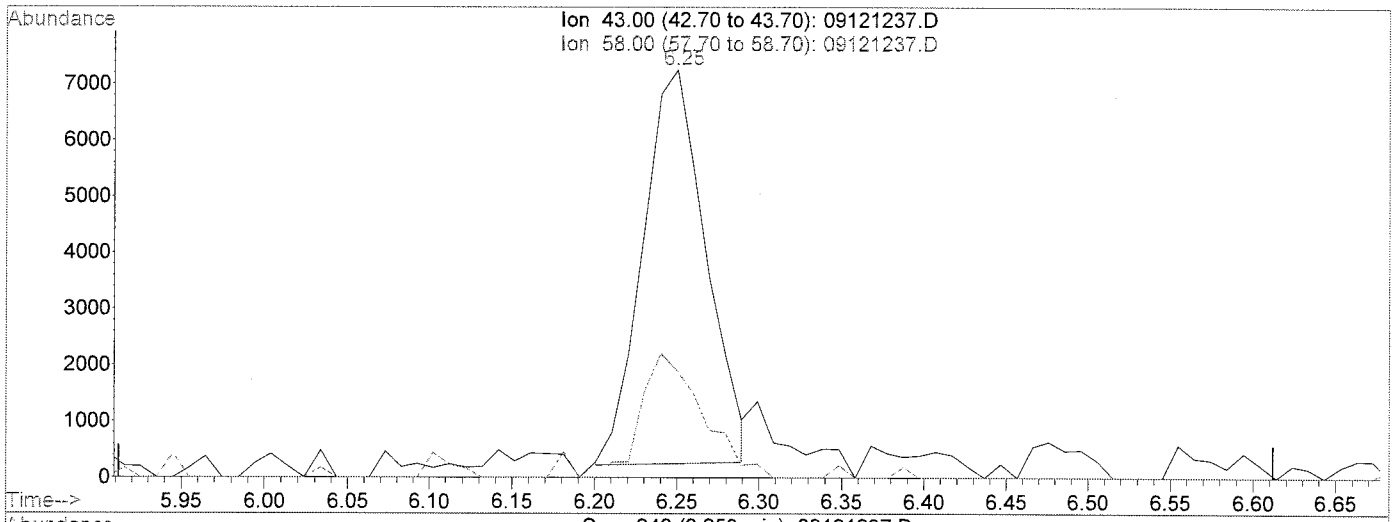
9/13/12

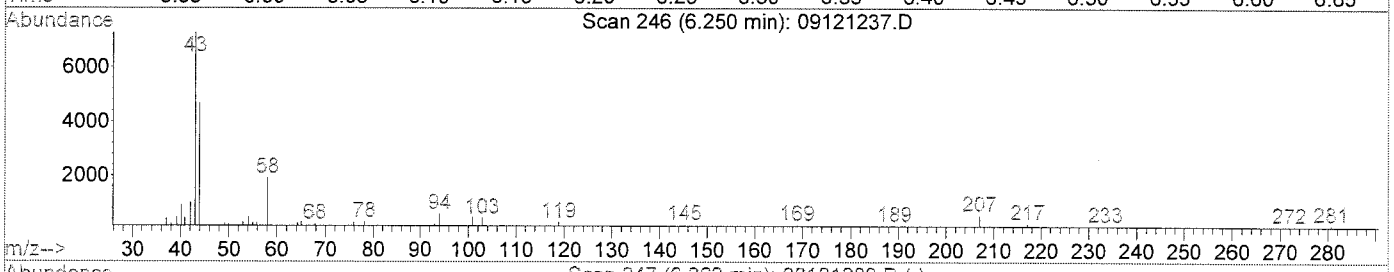
MM 9/13/12

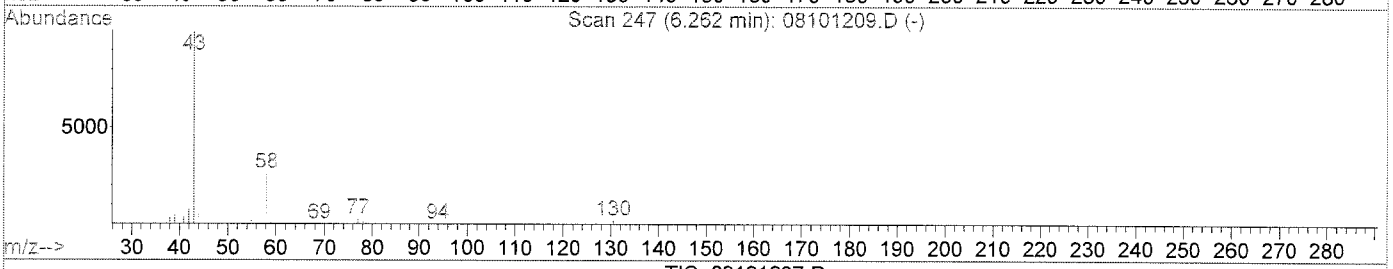
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09121237.D

9/13/12

(12) Acetone (T)

6.25min 17.58ug/L m

response 18628

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.07
0.00	0.00	0.00
0.00	0.00	0.00

MNM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	58369	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	251743	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	355206	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	256551	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	105510	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	118023	26.81 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.24%	
48) Toluene-d8	13.31	98	347462	24.77 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 99.08%	
62) 4-Bromofluorobenzene	16.94	95	107887	27.21 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 108.84%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	8273m	262.90 ug/L	
3) tert-Butanol (TBA)	6.82	59	51598	151.12 ug/L	100
5) Dichlorodifluoromethane	4.10	85	284164	30.76 ug/L	98
6) Chloromethane	4.35	50	246020	27.37 ug/L	98
7) Vinyl Chloride	4.66	62	218357	26.54 ug/L	98
8) 1,3-Butadiene	4.77	54	172813	38.84 ug/L	97
9) Bromomethane	5.18	94	139276	27.72 ug/L	97
10) Chloroethane	5.37	64	109482	26.83 ug/L	100
11) Trichlorofluoromethane	6.10	101	250007	34.38 ug/L	98
12) Acetone	6.25	43	18628m	17.58 ug/L	
13) Iodomethane	6.85	142	256599	30.19 ug/L #	89
14) 1,1-Dichloroethene	6.80	96	150000	29.64 ug/L	95
15) Methylene Chloride	6.99	84	116680	25.89 ug/L	97
16) Freon 113	7.06	101	155414	29.65 ug/L	97
17) Carbon disulfide	7.29	76	456045	27.70 ug/L #	93
18) trans-1,2-Dichloroethene	7.85	96	131705	22.44 ug/L	95
19) MTBE	7.99	73	215047	25.91 ug/L	97
20) 1,1-Dichloroethane	8.17	63	231121	25.36 ug/L	98
21) Vinyl Acetate	8.34	43	136167	21.08 ug/L	99
22) n-Hexane	8.68	86	28366	19.69 ug/L	89
23) 2-Butanone (MEK)	8.72	72	7150	19.72 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.73	45	349619	22.72 ug/L #	89
25) cis-1,2-Dichloroethene	8.90	96	165580	30.99 ug/L	99
26) Bromochloromethane	9.11	128	49357	23.27 ug/L	92
27) Chloroform	9.16	83	214558	26.91 ug/L	96
28) 2,2-Dichloropropane	9.27	77	155993	25.84 ug/L	95
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	272256	24.51 ug/L	98
31) Tetrahydrofuran	9.59	72	6429	19.49 ug/L	82
32) 1,2-Dichloroethane	10.01	62	106391	27.66 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	190672	28.55 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	218408	24.39 ug/L	96
36) 1,1-Dichloropropene	10.36	75	151780	19.98 ug/L	97
37) Carbon Tetrachloride	10.60	117	174531	29.31 ug/L	99
38) Benzene	10.65	78	406367	22.42 ug/L	96
39) Dibromomethane	11.38	93	53062	24.80 ug/L	94
40) 1,2-Dichloropropane	11.42	63	95744	22.17 ug/L	87

(#) = qualifier out of range (m) = manual integration

MNM 9/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	426152	83.87 ug/L		97
42)	Bromodichloromethane	11.54	83	135325	27.23 ug/L		94
43)	2-Chlorovinylethylether	12.09	63	185	0.11 ug/L	#	40
44)	cis-1,3-Dichloropropene	12.38	75	136291	23.52 ug/L		96
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	57724	22.18 ug/L		98
46)	trans-1,3-Dichloropropene	12.95	75	108389	24.59 ug/L		95
47)	1,1,2-Trichloroethane	13.16	97	63862	25.41 ug/L		96
49)	Toluene	13.41	92	248004	24.06 ug/L		100
51)	1,3-Dichloropropane	13.48	76	102469	22.49 ug/L		98
52)	2-Hexanone	13.68	43	35812	18.81 ug/L	#	97
53)	Dibromochloromethane	13.84	129	87788	26.58 ug/L		99
54)	1,2-Dibromoethane	14.18	107	67429	24.36 ug/L		97
55)	Tetrachloroethene	14.40	164	140952	31.19 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	96216	26.57 ug/L		99
57)	Chlorobenzene	15.32	112	254700	24.18 ug/L		100
58)	Ethylbenzene	15.57	91	452570	24.60 ug/L		97
59)	m,p-Xylenes	15.84	106	164280	23.41 ug/L		96
60)	Styrene	16.29	104	219319	23.33 ug/L		99
61)	o-Xylene	16.39	106	158012	24.36 ug/L		98
64)	Bromoform	16.01	173	56617	31.17 ug/L		89
65)	1,1,2,2-Tetrachloroethane	16.38	83	69564	24.55 ug/L		98
66)	1,2,3-Trichloropropane	16.59	110	18241	26.71 ug/L		96
67)	trans-1,4-Dichloro-2-buten	16.61	53	14165	20.56 ug/L		94
68)	Isopropylbenzene	16.89	105	434229	27.56 ug/L		100
69)	Bromobenzene	17.24	156	99320	25.87 ug/L		99
70)	n-Propylbenzene	17.50	91	515489	25.77 ug/L		100
71)	2-Chlorotoluene	17.64	91	274417	25.37 ug/L		98
72)	4-Chlorotoluene	17.75	91	267808	25.32 ug/L		96
73)	1,3,5-Trimethylbenzene	17.91	105	319671	26.01 ug/L		98
74)	tert-Butylbenzene	18.30	119	300258	27.35 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	297145	25.56 ug/L		96
76)	sec-Butylbenzene	18.60	105	454325	25.58 ug/L		100
77)	1,3-Dichlorobenzene	18.71	146	170283	24.37 ug/L		97
78)	1,4-Dichlorobenzene	18.80	146	167369	24.43 ug/L		97
79)	p-Isopropyltoluene	18.85	119	328098	24.65 ug/L		98
80)	1,2-Dichlorobenzene	19.27	146	139793	24.57 ug/L		98
81)	n-Butylbenzene	19.38	91	305525	23.94 ug/L		97
82)	1,2-Dibromo-3-chloropropan	19.85	75	9067	31.96 ug/L		91
83)	1,2,4-Trichlorobenzene	21.50	180	76379	25.04 ug/L		96
84)	Napthalene	21.82	128	130100	26.66 ug/L		98
85)	Hexachlorobutadiene	21.88	225	67316	32.59 ug/L		98
86)	1,2,3-Trichlorobenzene	22.08	180	63820	25.83 ug/L		95

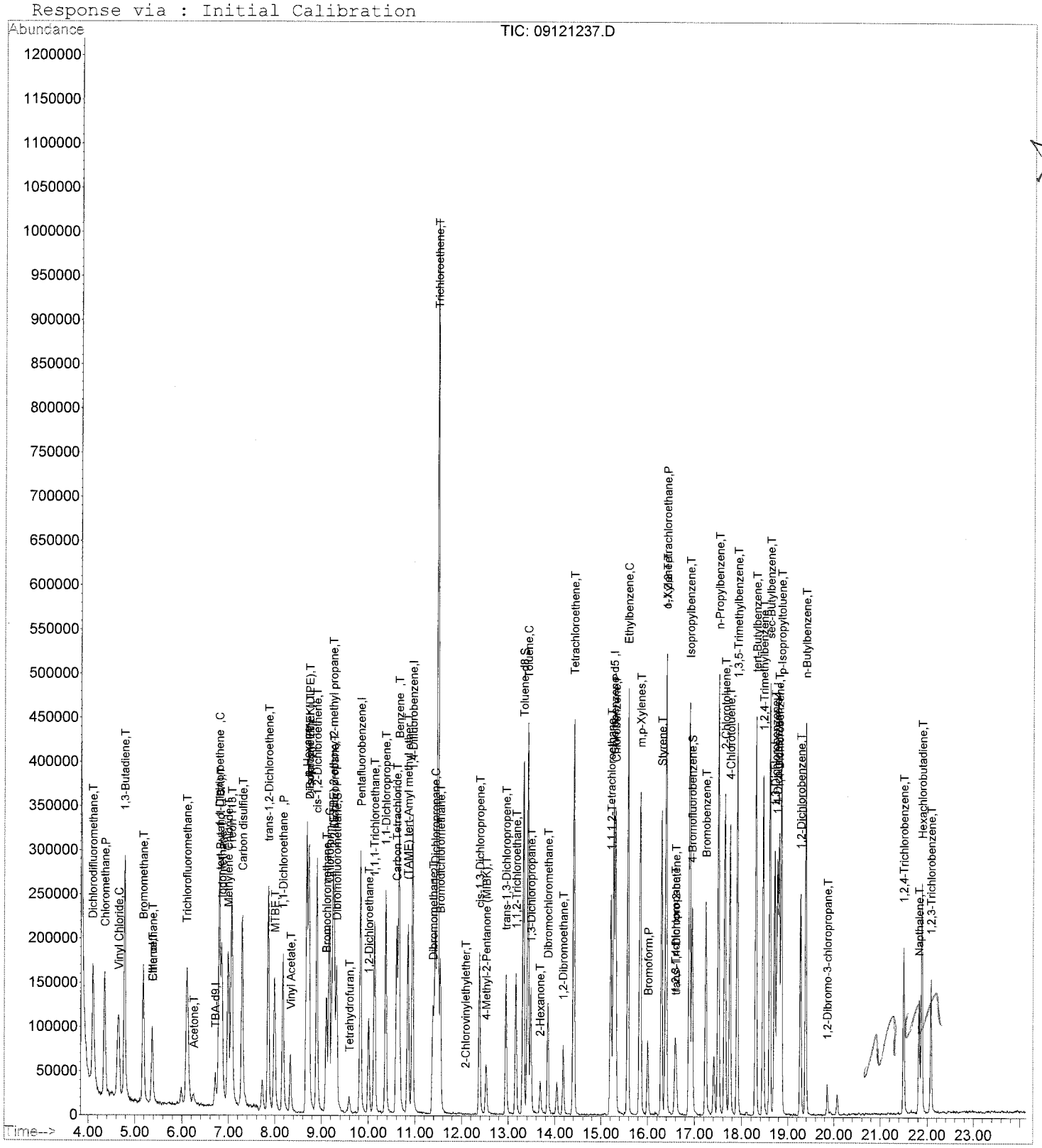
MNM

(#) = qualifier out of range (m) = manual integration
09121237.D 081012.M Thu Sep 13 07:04:22 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121237.D Vial: 15
Acq On : 12 Sep 2012 11:51 pm Operator: MNM
Sample : 12I0394-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121238.D Vial: 16
Acq On : 13 Sep 2012 12:23 am Operator: MNM
Sample : PVI0512-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	48489	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	247224	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.95	114	345808	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	240619	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	89973	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	113639	26.28 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 105.12%	
48) Toluene-d8	13.32	98	341652	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.08%	
62) 4-Bromofluorobenzene	16.95	95	97441	26.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.84%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	125426	4797.89 ug/L LL	75
3) tert-Butanol (TBA)	6.79	59	223	0.79 ug/L #	77
5) Dichlorodifluoromethane	3.98	85	5576	0.61 ug/L	91
6) Chloromethane	4.36	50	2005	* 0.23 ug/L LL	89 NSM
7) Vinyl Chloride	4.62	62	809	0.10 ug/L #	88
8) 1,3-Butadiene	4.79	54	972	0.22 ug/L #	9
9) Bromomethane	5.19	94	2138	0.43 ug/L #	40
12) Acetone	6.27	43	3420	3.29 ug/L #	55
15) Methylene Chloride	6.99	84	1939	0.44 ug/L #	75
23) 2-Butanone (MEK)	8.70	72	102	0.29 ug/L #	1
27) Chloroform	9.17	83	2789	0.36 ug/L #	83 J flag
28) 2,2-Dichloropropane	9.27	77	773	0.13 ug/L #	26
34) (TAME) tert-Amyl methyl et	10.94	73	3587	0.41 ug/L #	43
41) Trichloroethene	11.49	95	1938	0.39 ug/L	89 J
43) 2-Chlorovinylethylether	12.09	63	158	0.10 ug/L #	47
45) 4-Methyl-2-Pentanone (MIBK	12.56	43	230	0.09 ug/L #	37
52) 2-Hexanone	13.75	43	369	0.21 ug/L #	34
55) Tetrachloroethene	14.40	164	2911	0.69 ug/L #	74
61) o-Xylene	16.39	106	571	0.09 ug/L LL	20
67) trans-1,4-Dichloro-2-buten	16.56	53	102	1.19 ug/L #	2
83) 1,2,4-Trichlorobenzene	21.50	180	338	0.13 ug/L #	23
84) Napthalene	21.82	128	1140	0.27 ug/L #	88
85) Hexachlorobutadiene	21.90	225	93	Below Cal #	29
86) 1,2,3-Trichlorobenzene	22.09	180	510	0.09 ug/L #	81

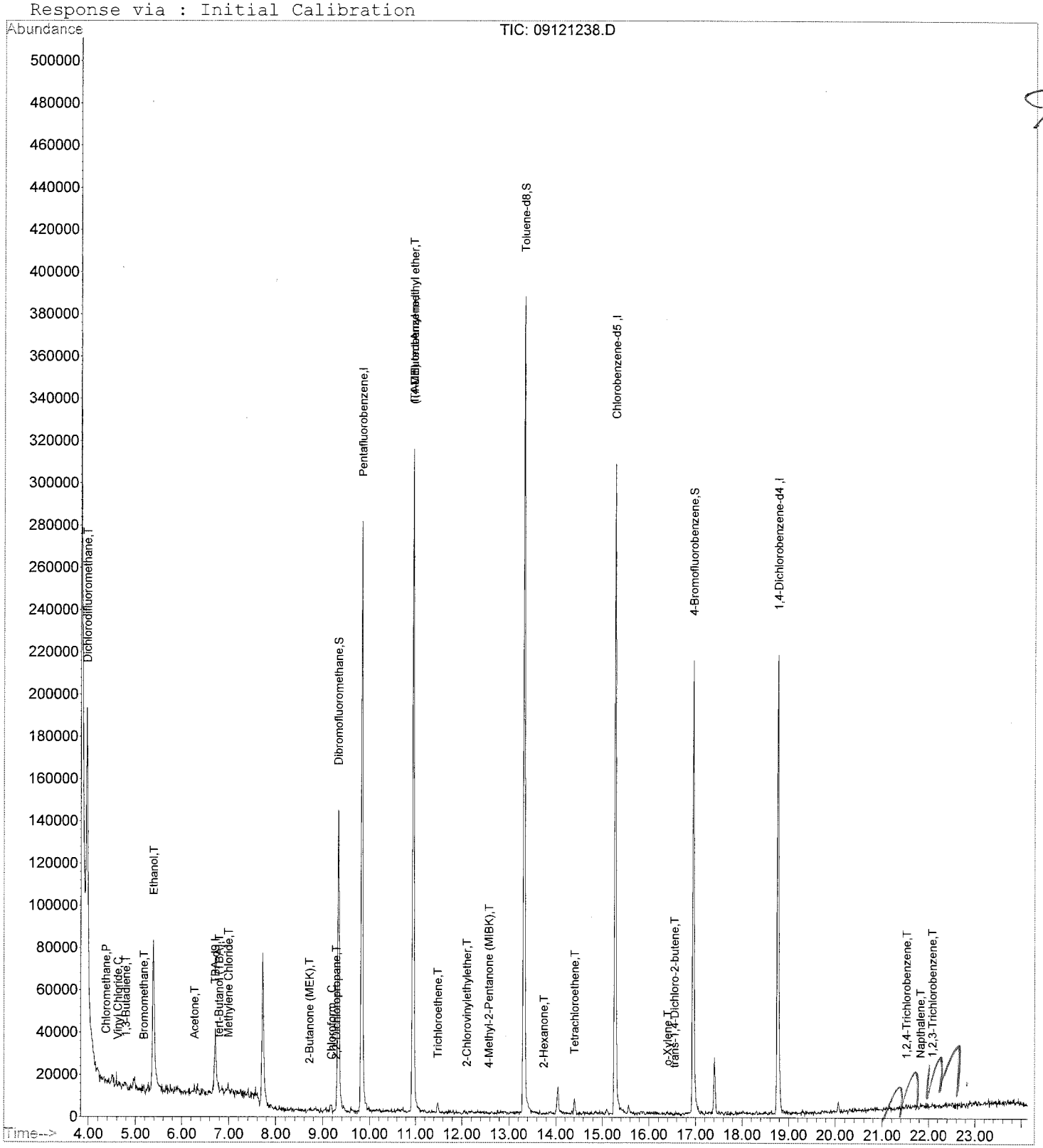
MM 9/13/12

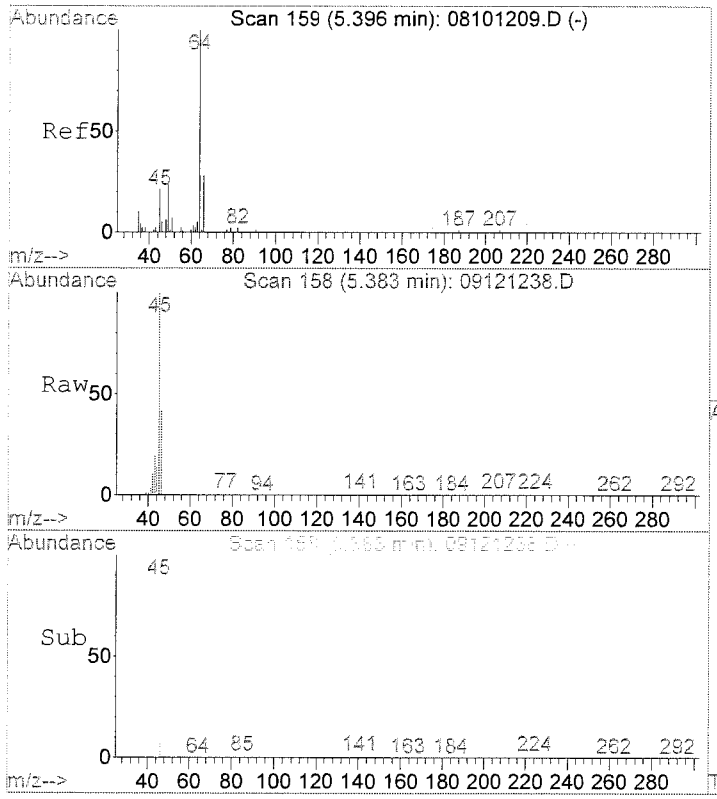
(#) = qualifier out of range (m) = manual integration
09121238.D 081012.M Thu Sep 13 07:04:49 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121238.D Vial: 16
Acq On : 13 Sep 2012 12:23 am Operator: MNM
Sample : PVI0512-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 7:04 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

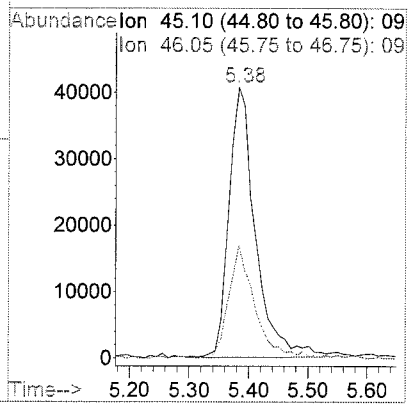




#2
Ethanol
Concen: 4797.89 ug/L
RT: 5.38 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 45 Resp: 125426

Ion	Ratio	Lower	Upper
45	100		
46	40.8	39.9	79.9



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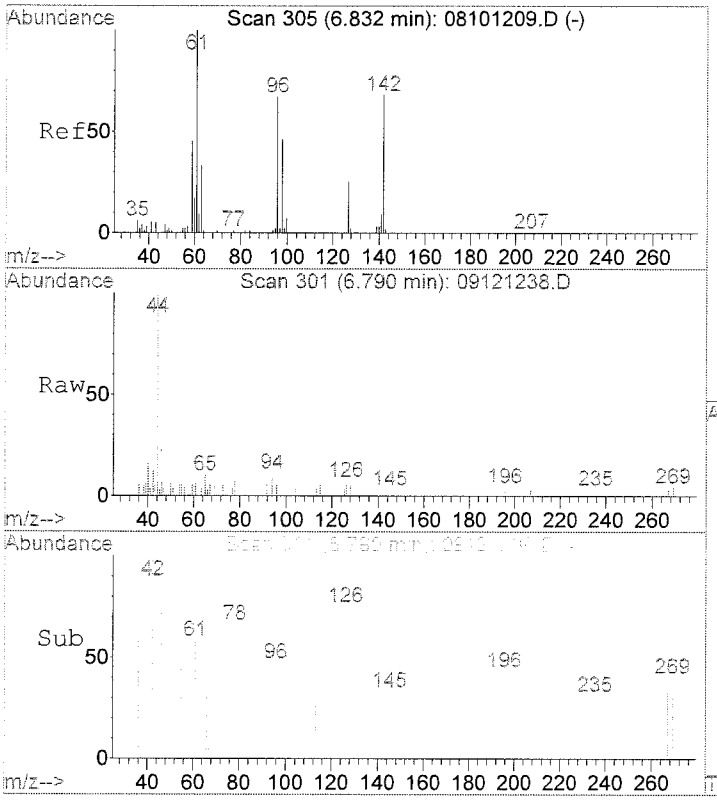
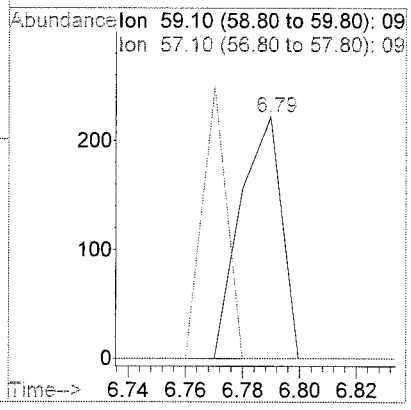


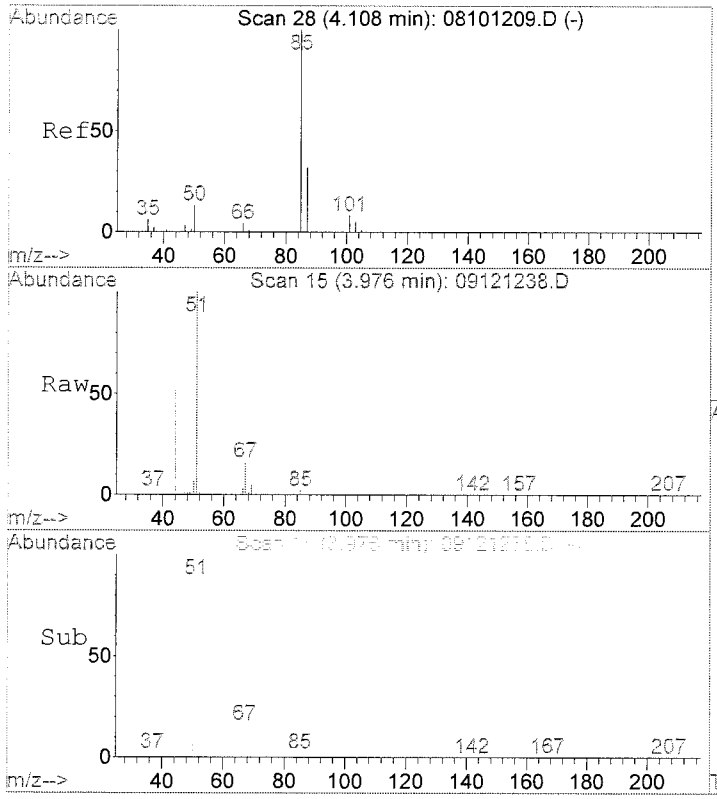
#3
tert-Butanol (TBA)
Concen: 0.79 ug/L
RT: 6.79 min Scan# 301
Delta R.T. -0.04 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 59 Resp: 223

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#



MM

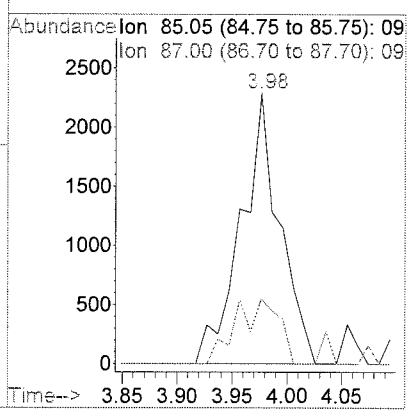


#5
Dichlorodifluoromethane
Concen: 0.61 ug/L
RT: 3.98 min Scan# 15
Delta R.T. -0.13 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 85 Resp: 5576

Ion	Ratio	Lower	Upper
85	100		
87	27.1	11.9	51.9

WRT



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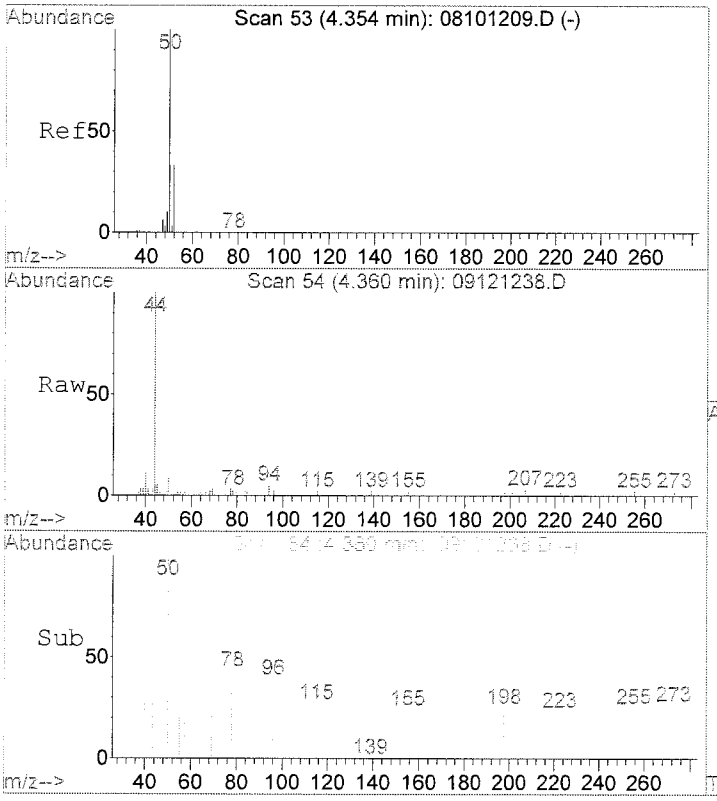
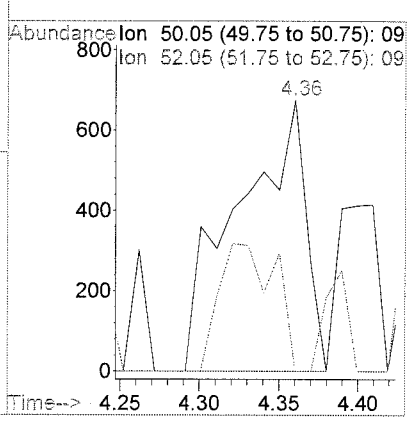


#6
Chloromethane
Concen: 0.23 ug/L
RT: 4.36 min Scan# 54
Delta R.T. 0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

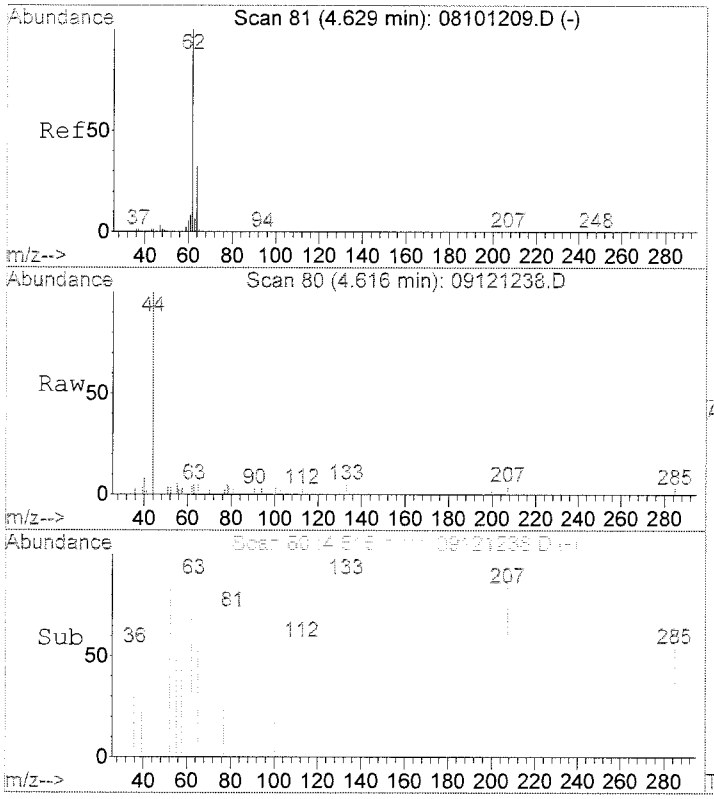
Tgt Ion: 50 Resp: 2005

Ion	Ratio	Lower	Upper
50	100		
52	38.5	12.3	52.3

NSM



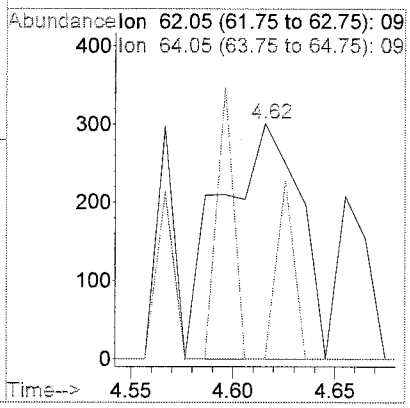
MM

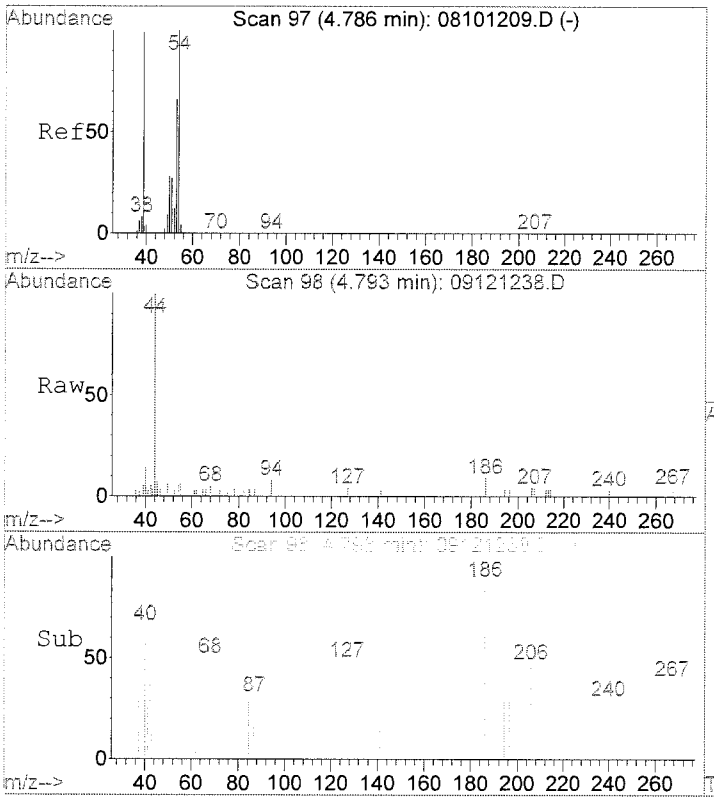


#7
Vinyl Chloride
Concen: 0.10 ug/L
RT: 4.62 min Scan# 80
Delta R.T. -0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 62 Resp: 809

Ion	Ratio	Lower	Upper
62	100		
64	25.3	25.7	38.5#

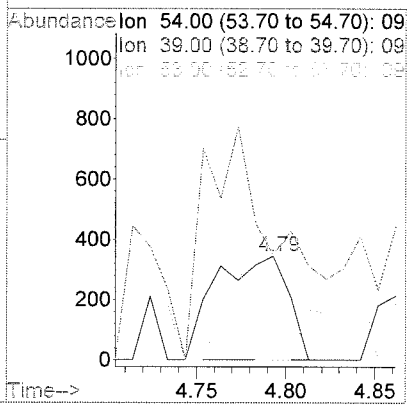


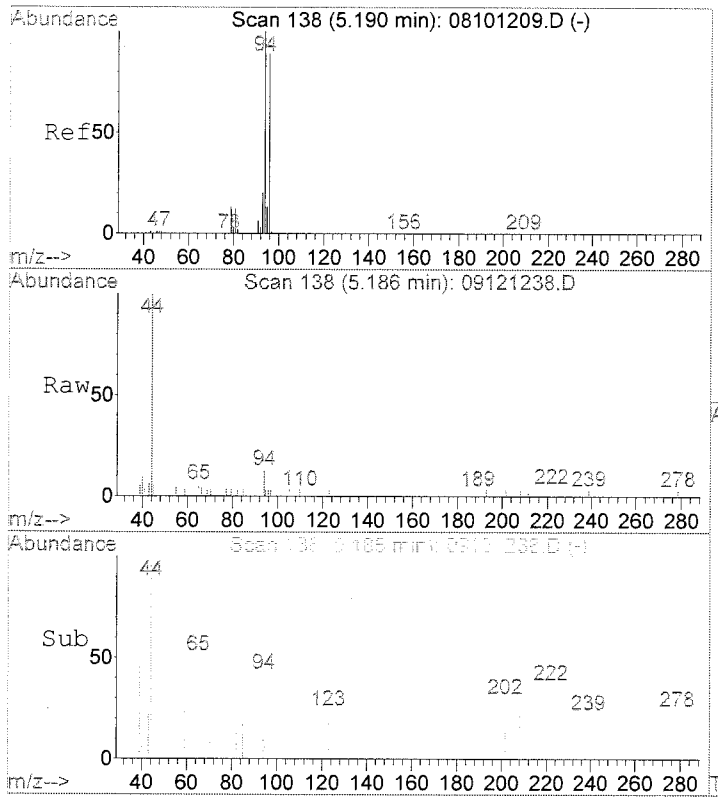


#8
1,3-Butadiene
Concen: 0.22 ug/L
RT: 4.79 min Scan# 98
Delta R.T. 0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 54 Resp: 972

Ion	Ratio	Lower	Upper
54	100		
39	231.9	86.0	129.0#
53	30.6	56.2	84.4#

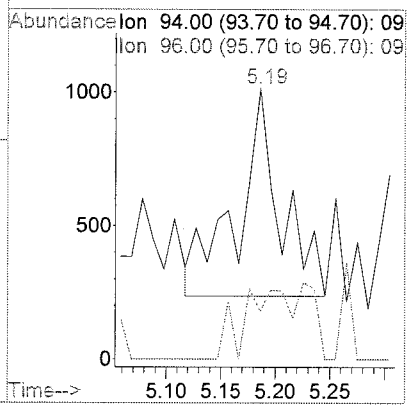




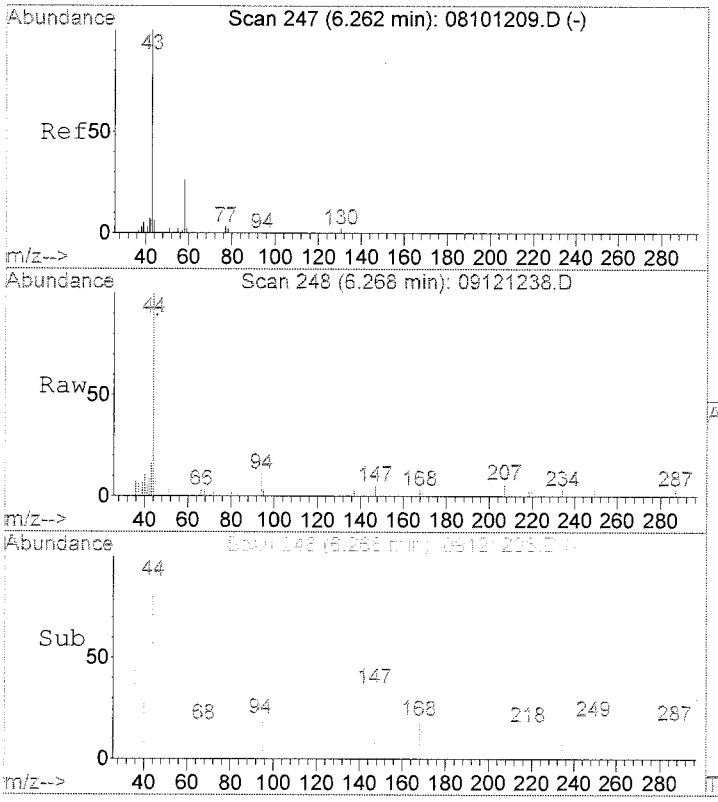
#9
Bromomethane
Concen: 0.43 ug/L
RT: 5.19 min Scan# 138
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 94 Resp: 2138

Ion	Ratio	Lower	Upper
94	100		
96	36.7	75.8	113.6#



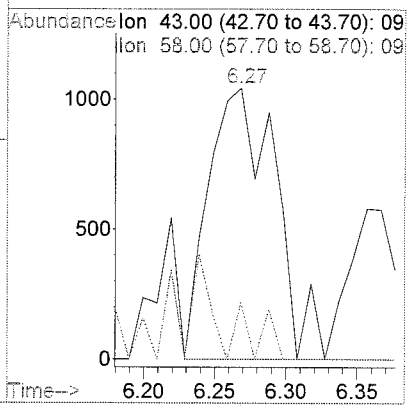
9



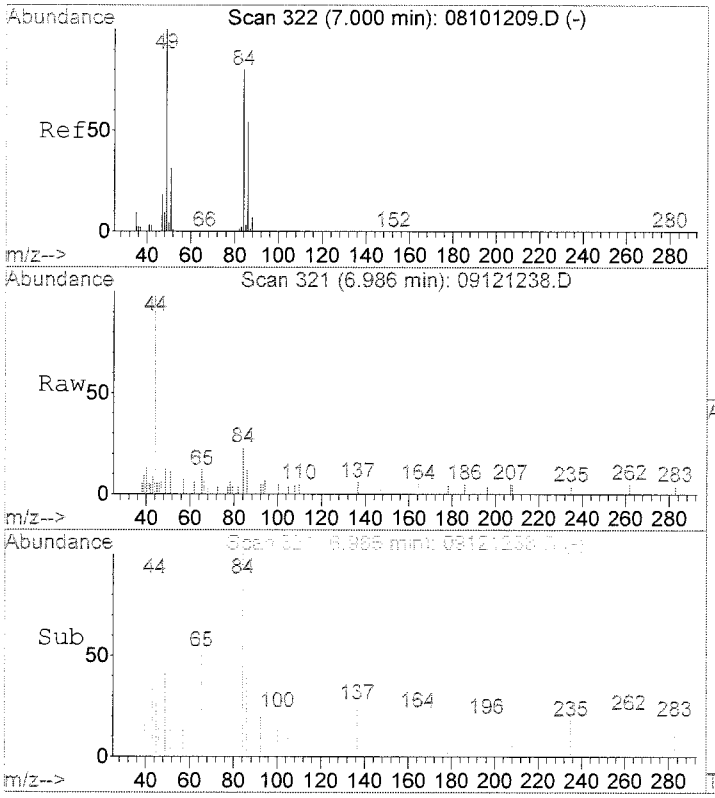
#12
Acetone
Concen: 3.29 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 43 Resp: 3420

Ion	Ratio	Lower	Upper
43	100		
58	7.0	25.9	38.9#



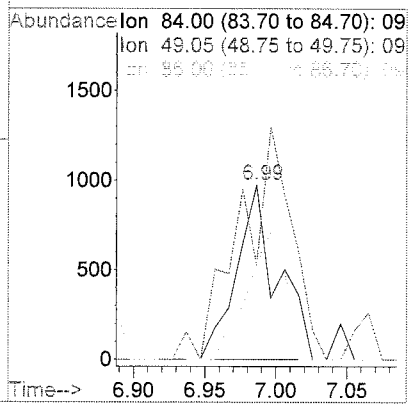
MM



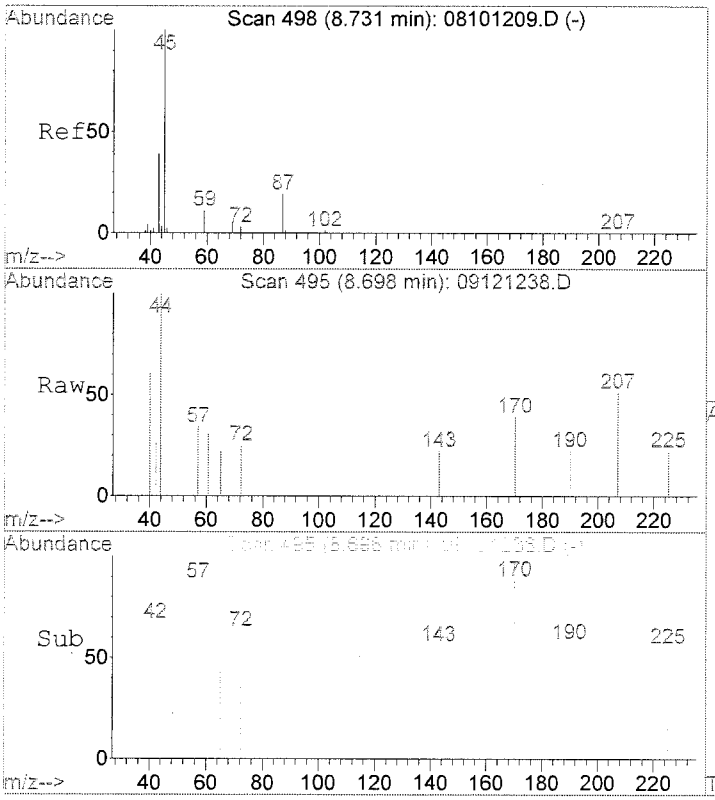
#15
Methylene Chloride
Concen: 0.44 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 84 Resp: 1939

Ion	Ratio	Lower	Upper
84	100		
49	169.9	103.4	155.0#
86	67.9	52.0	78.0



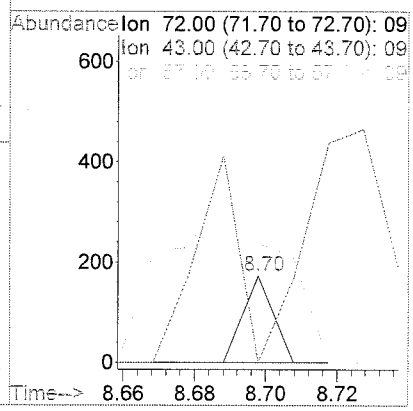
7



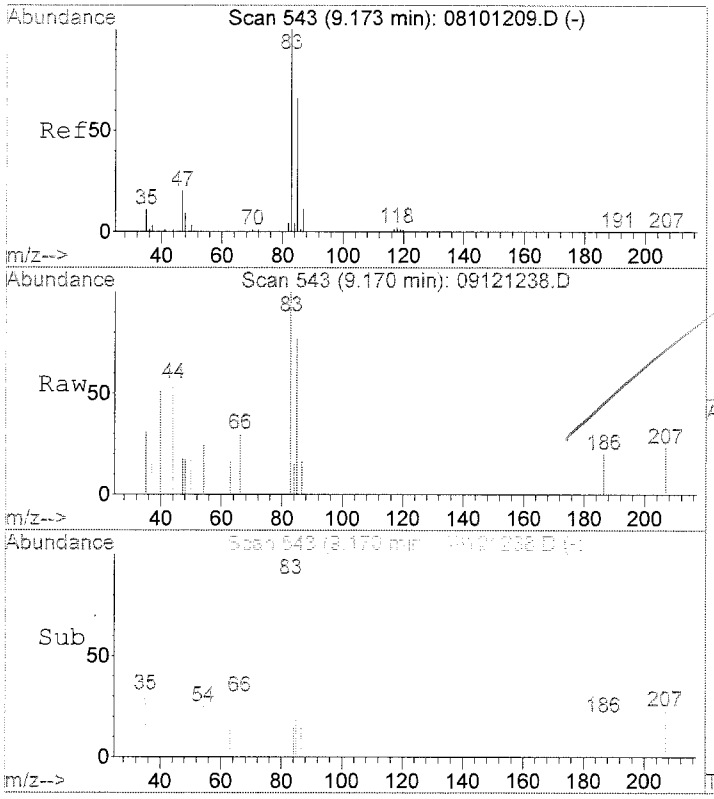
#23
2-Butanone (MEK)
Concen: 0.29 ug/L
RT: 8.70 min Scan# 495
Delta R.T. -0.03 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 72 Resp: 102

Ion	Ratio	Lower	Upper
72	100		
43	338.2	1366.5	2049.7#
57	712.7	0.0	0.0#



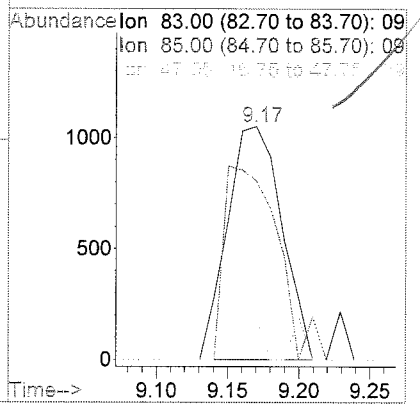
MM

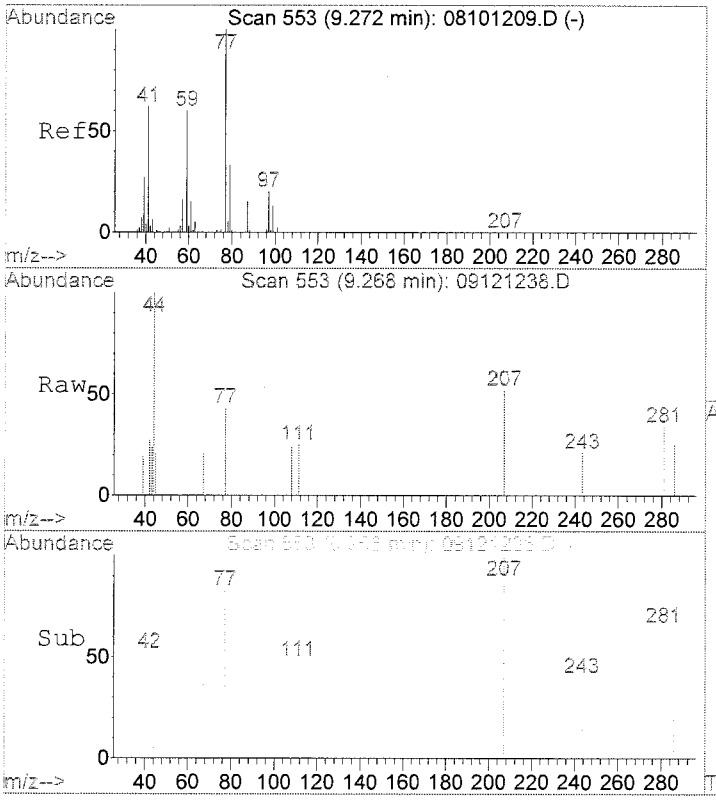


#27
Chloroform
Concen: 0.36 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 83 Resp: 2789

Ion	Ratio	Lower	Upper
83	100		
85	81.9	51.6	77.4#
47	22.0	18.9	28.3

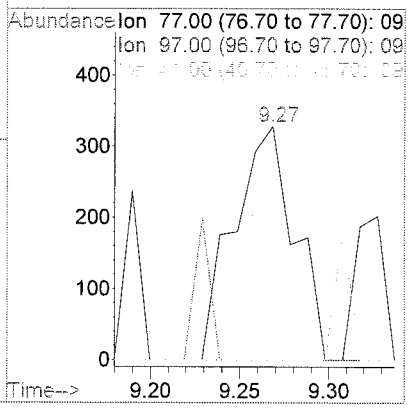


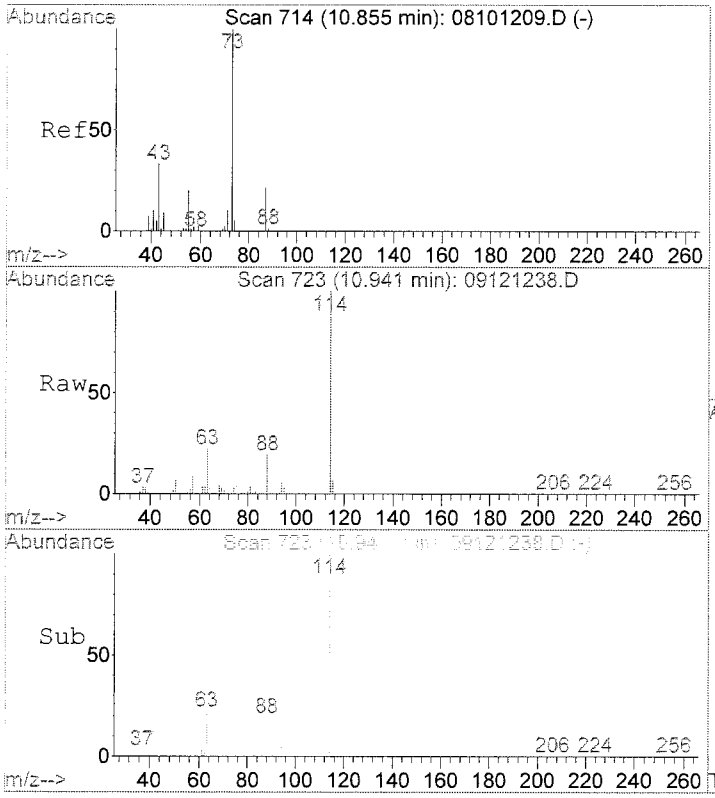


#28
2,2-Dichloropropane
Concen: 0.13 ug/L
RT: 9.27 min Scan# 553
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 77 Resp: 773

Ion	Ratio	Lower	Upper
77	100		
97	15.1	16.9	25.3#
41	0.0	64.1	96.1#

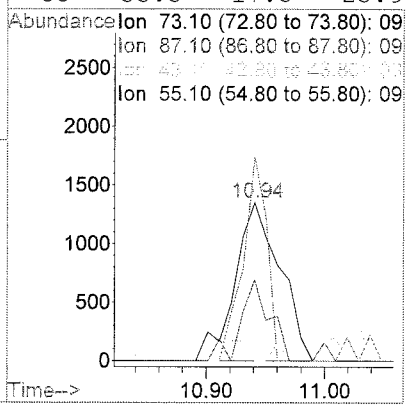




#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.09 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 73 Resp: 3587

Ion	Ratio	Lower	Upper
73	100		
87	68.7	16.4	24.6#
43	5.7	27.0	40.4#
55	33.3	17.3	25.9#



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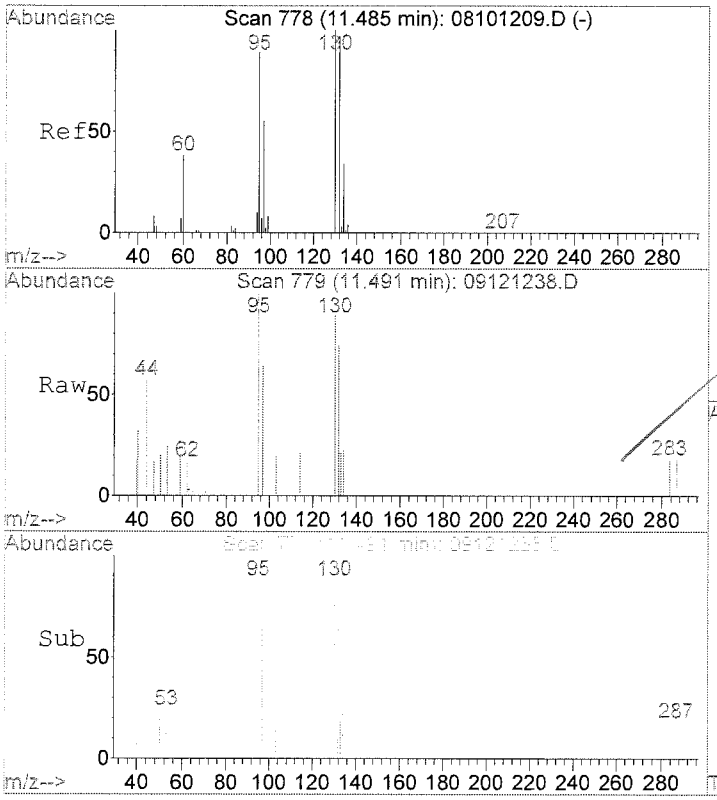
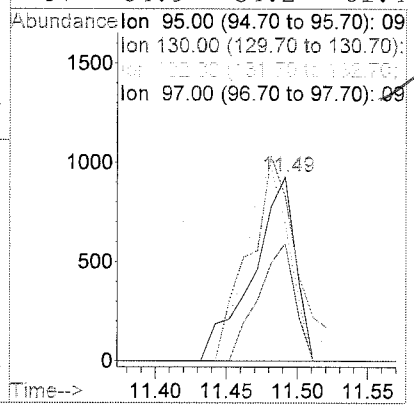


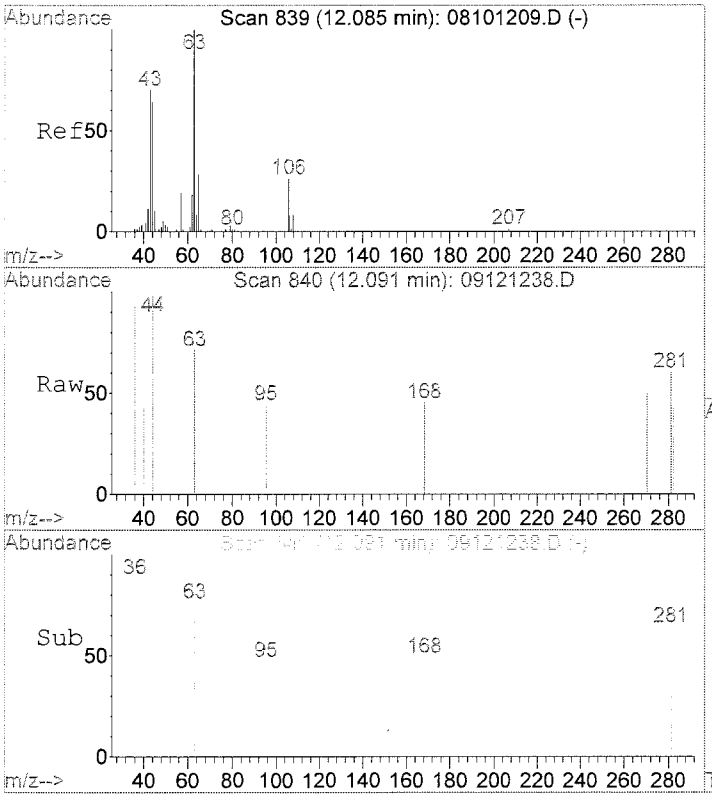
#41
Trichloroethene
Concen: 0.39 ug/L
RT: 11.49 min Scan# 779
Delta R.T. 0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 95 Resp: 1938

Ion	Ratio	Lower	Upper
95	100		
130	123.4	87.3	130.9
132	111.1	84.2	126.4
97	54.9	54.2	81.4



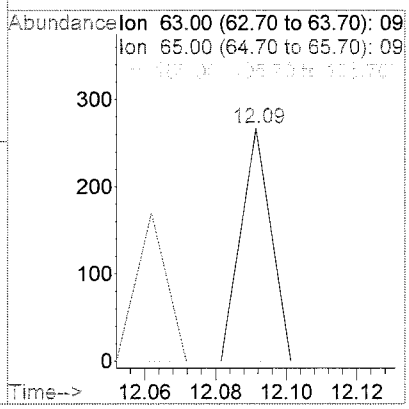
MM



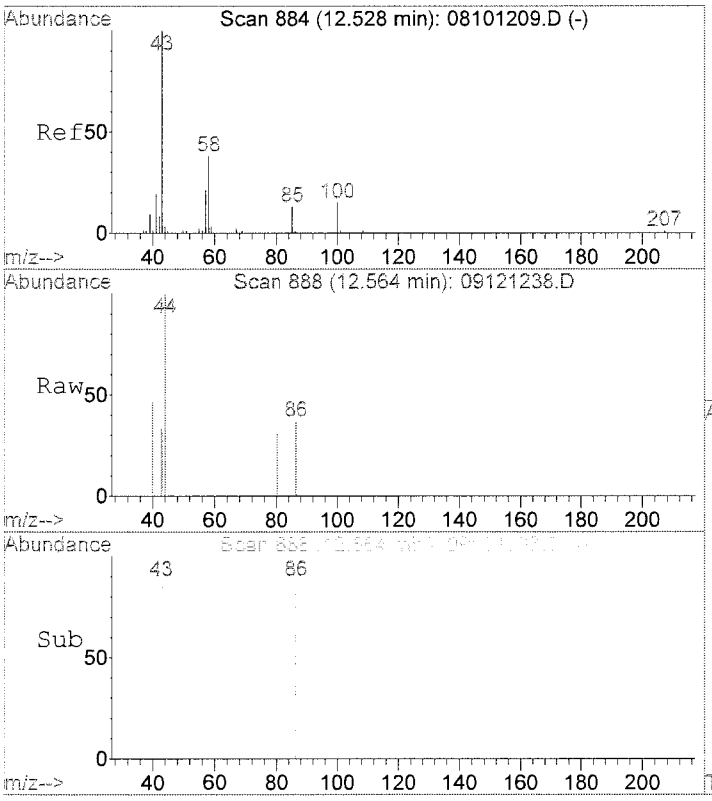
#43
2-Chlorovinylethylether
Concen: 0.10 ug/L
RT: 12.09 min Scan# 840
Delta R.T. 0.01 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 63 Resp: 158

Ion	Ratio	Lower	Upper
63	100		
65	63.3	25.9	38.9#
106	0.0	20.4	30.6#



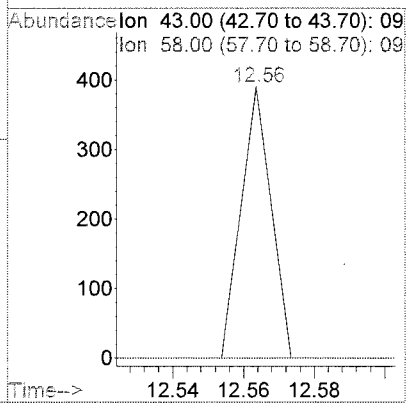
9



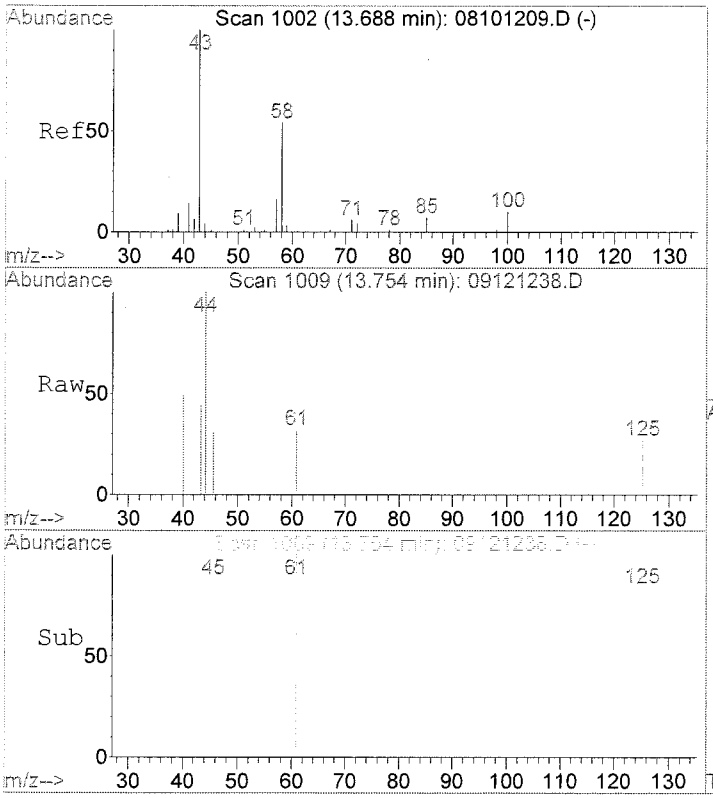
#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.09 ug/L
RT: 12.56 min Scan# 888
Delta R.T. 0.04 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 43 Resp: 230

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#



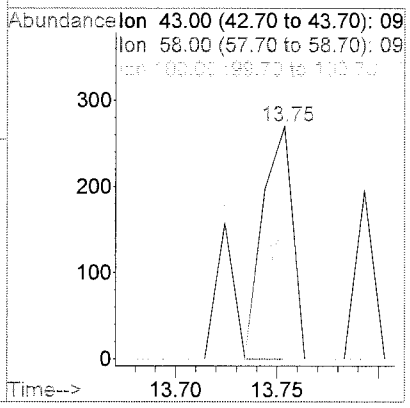
MM

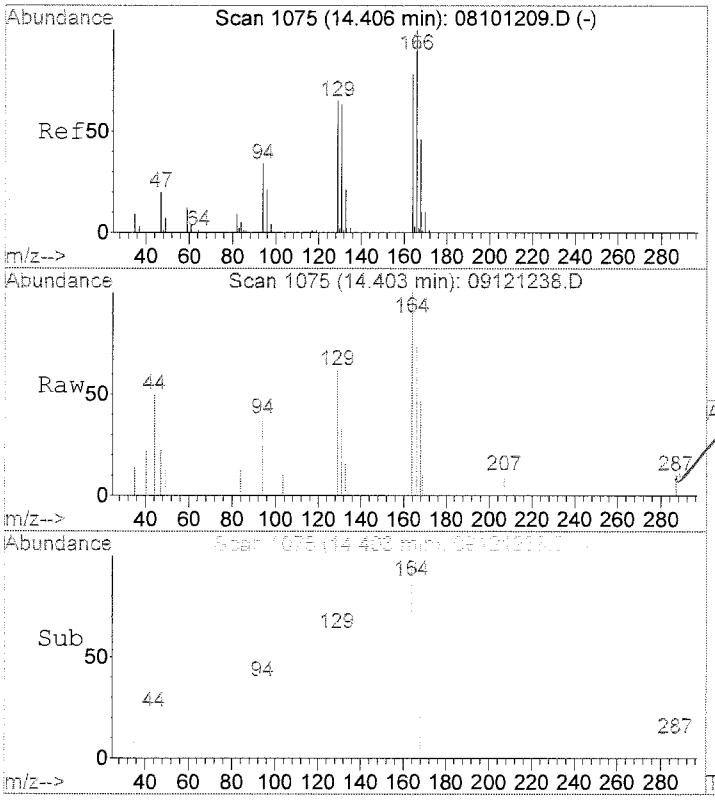


#52
2-Hexanone
Concen: 0.21 ug/L
RT: 13.75 min Scan# 1009
Delta R.T. 0.07 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 43 Resp: 369

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#

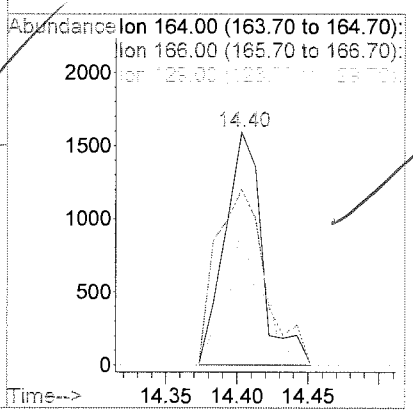


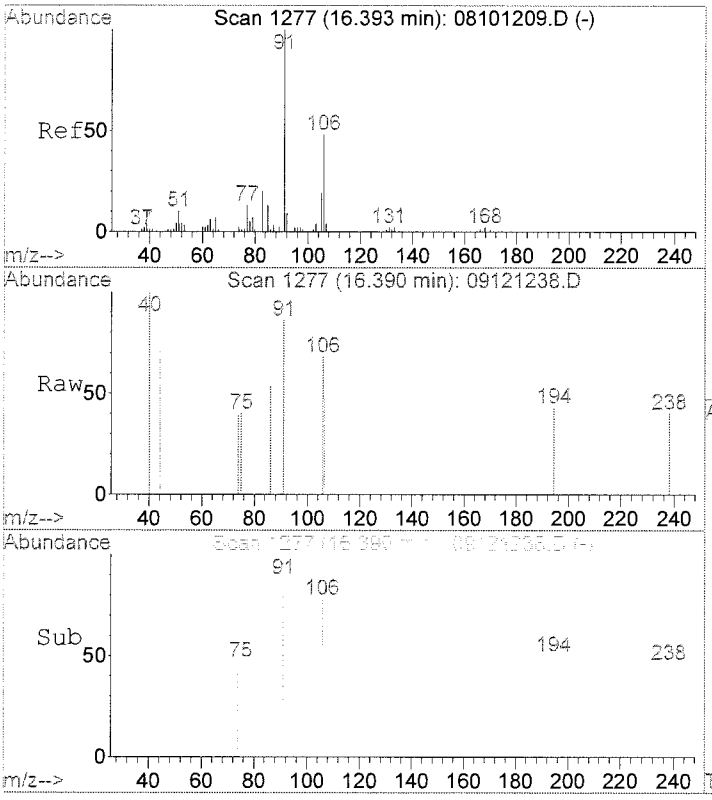


#55
Tetrachloroethene
Concen: 0.69 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:164 Resp: 2911

Ion	Ratio	Lower	Upper
164	100		
166	99.7	102.1	153.1#
129	56.5	66.5	99.7#

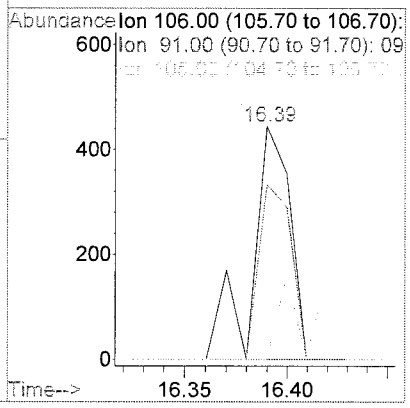




#61
o-Xylene
Concen: 0.09 ug/L
RT: 16.39 min Scan# 1277
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:106 Resp: 571

Ion	Ratio	Lower	Upper
106	100		
91	64.4	168.6	252.8#
105	33.3	32.6	48.8



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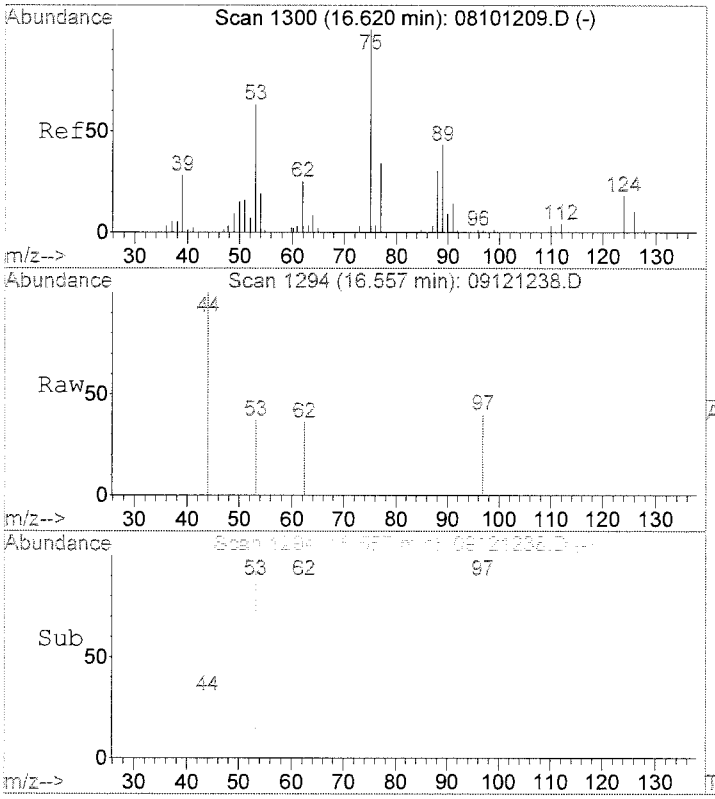
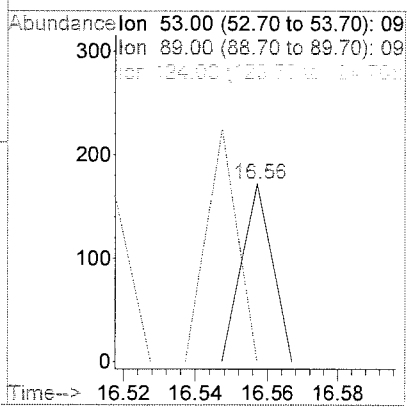


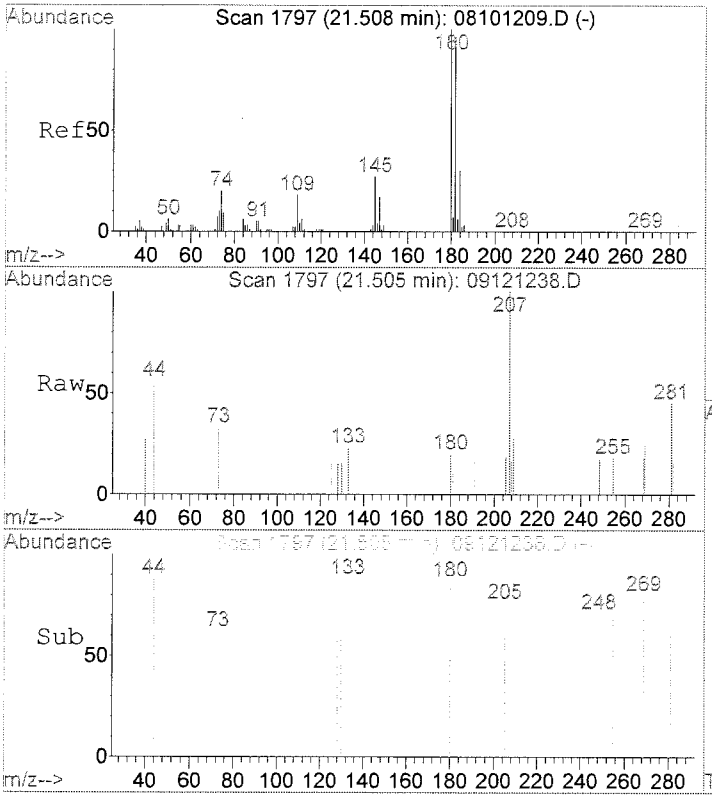
#67
trans-1,4-Dichloro-2-butene
Concen: 1.19 ug/L
RT: 16.56 min Scan# 1294
Delta R.T. -0.06 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion: 53 Resp: 102

Ion	Ratio	Lower	Upper
53	100		
89	130.4	50.5	75.7#
124	92.2	21.8	32.8#



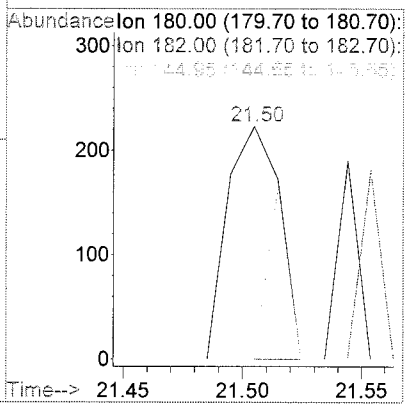
MM

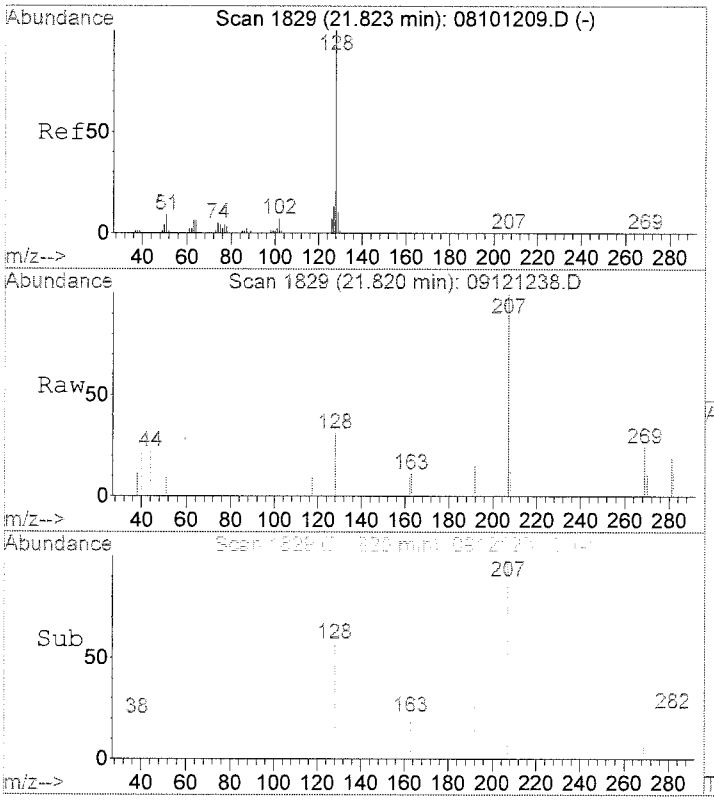


#83
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:180 Resp: 338

Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.9	116.9#
145	29.0	22.8	34.2

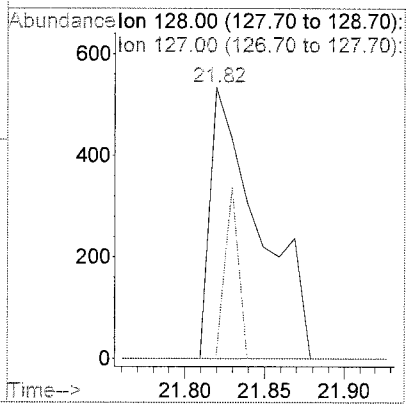


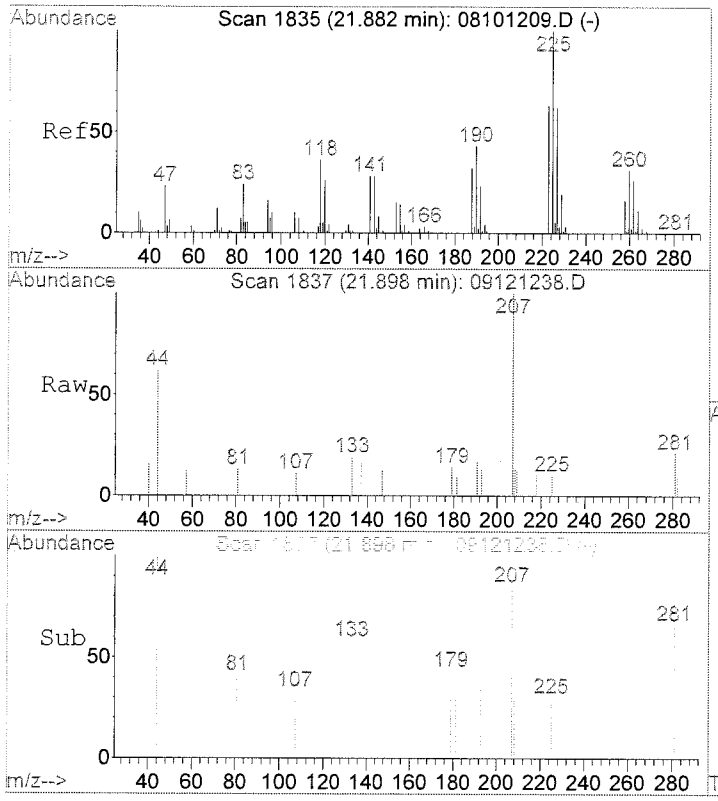


#84
Napthalene
Concen: 0.27 ug/L
RT: 21.82 min Scan# 1829
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:128 Resp: 1140

Ion	Ratio	Lower	Upper
128	100		
127	17.5	10.2	15.4#

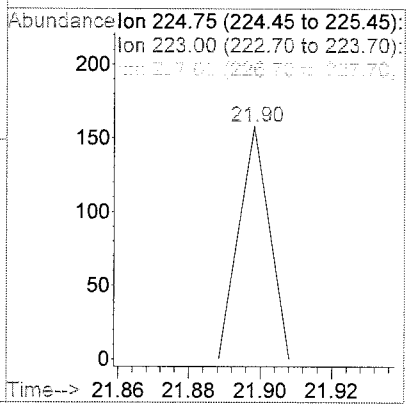


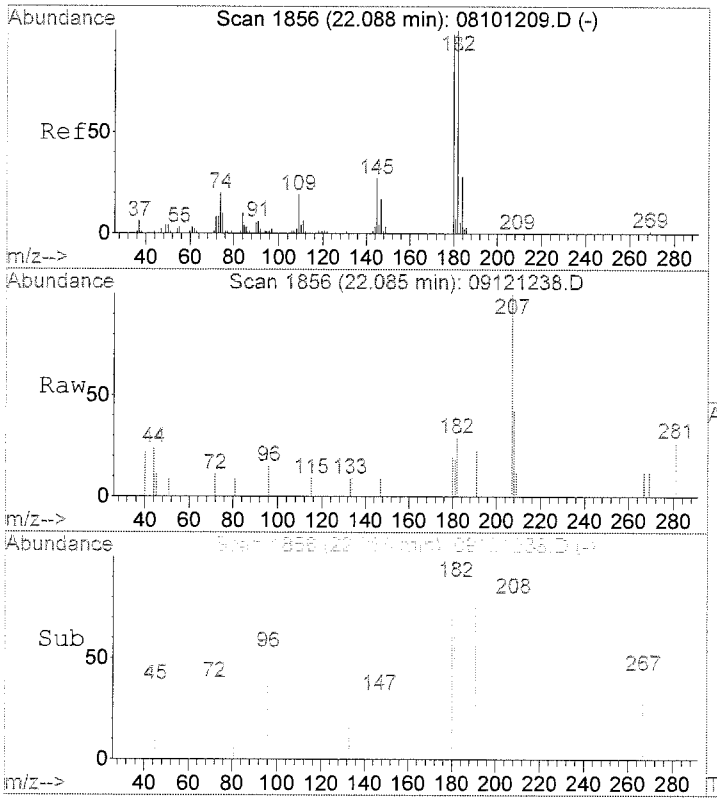


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.90 min Scan# 1837
Delta R.T. 0.02 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:225 Resp: 93

Ion	Ratio	Lower	Upper
225	100		
223	0.0	47.8	71.8#
227	111.8	50.6	75.8#

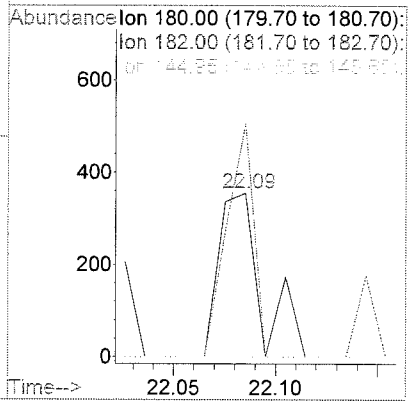




#86
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 22.09 min Scan# 1856
Delta R.T. -0.00 min
Lab File: 09121238.D
Acq: 13 Sep 2012 12:23 am

Tgt Ion:180 Resp: 510

Ion	Ratio	Lower	Upper
180	100		
182	89.8	78.9	118.3
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121239.D Vial: 17
Acq On : 13 Sep 2012 12:56 am Operator: MNM
Sample : PVI0512-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	52892	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	250033	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	330001	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	239229	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	89803	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	113289	25.91 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.64%	
48) Toluene-d8	13.32	98	329549	25.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.16%	
62) 4-Bromofluorobenzene	16.94	95	94830	25.65 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 102.60%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	46113	1617.11 ug/L #	67
3) tert-Butanol (TBA)	6.81	59	109	0.35 ug/L #	77
5) Dichlorodifluoromethane	3.97	85	1594	0.17 ug/L	81
6) Chloromethane	4.36	50	2011	0.23 ug/L	95
9) Bromomethane	5.09	94	1094	0.22 ug/L #	22
12) Acetone	6.29	43	3913	3.72 ug/L #	49
15) Methylene Chloride	7.01	84	1915	0.43 ug/L #	3
22) n-Hexane	8.61	86	195	0.14 ug/L #	1
23) 2-Butanone (MEK)	8.60	72	104	0.29 ug/L #	1
27) Chloroform	9.17	83	2186	0.28 ug/L #	78
31) Tetrahydrofuran	9.52	72	96	0.29 ug/L #	24
41) Trichloroethene	11.48	95	459	0.10 ug/L #	47
43) 2-Chlorovinylethylether	12.11	63	192	0.13 ug/L #	45
45) 4-Methyl-2-Pentanone (MIBK	12.49	43	246	0.10 ug/L #	37
52) 2-Hexanone	13.71	43	246	0.14 ug/L #	85
55) Tetrachloroethene	14.40	164	619	0.15 ug/L #	48
82) 1,2-Dibromo-3-chloropropan	19.69	75	94	0.56 ug/L #	20

NSM

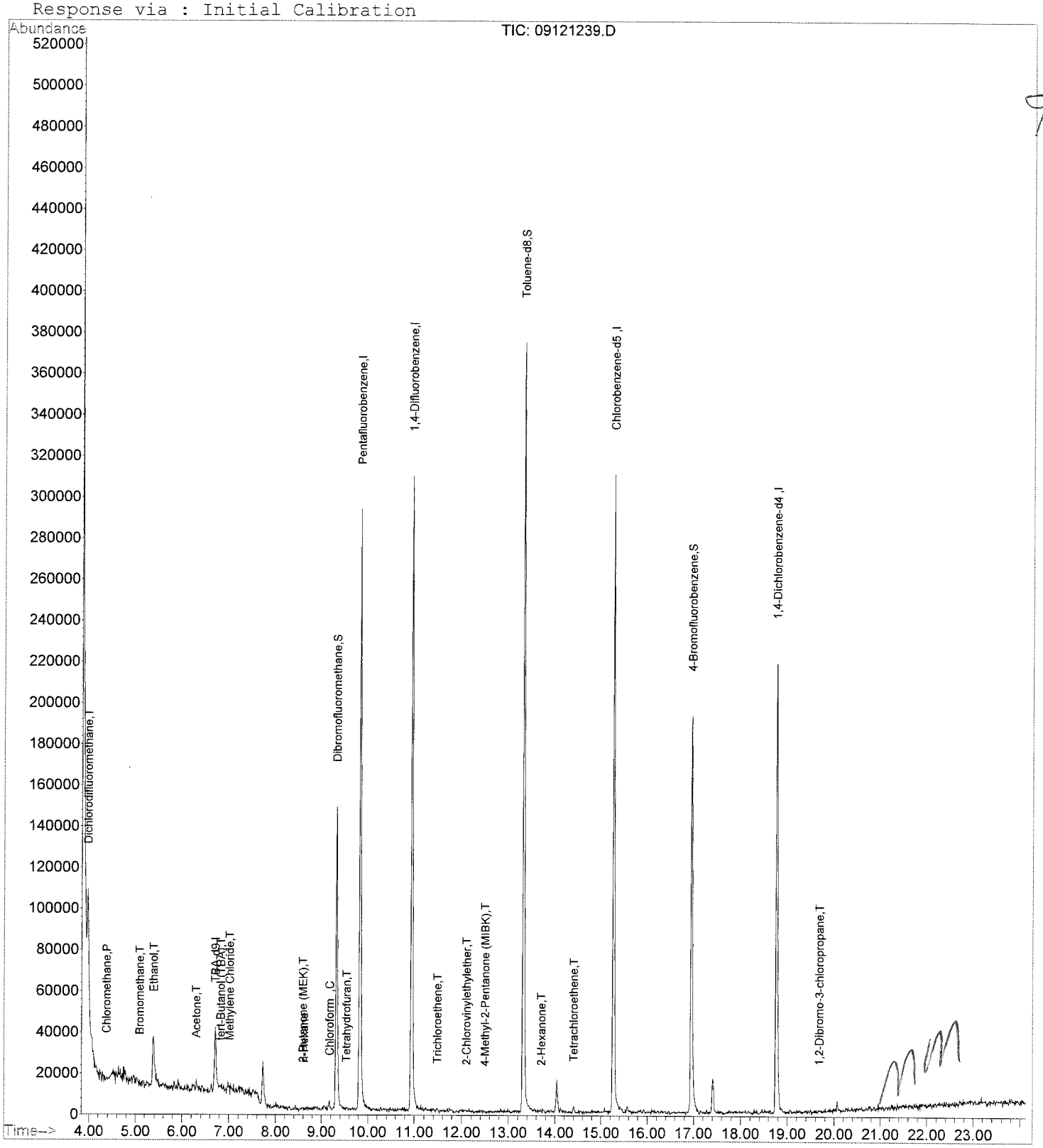
MM 9/13/12

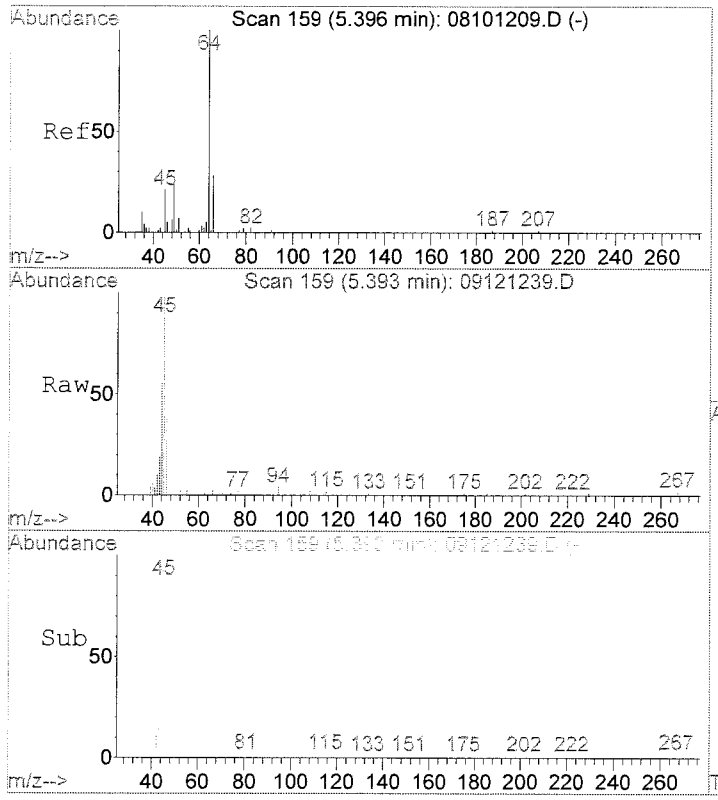
(#) = qualifier out of range (m) = manual integration
09121239.D 081012.M Thu Sep 13 07:05:01 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121239.D Vial: 17
Acq On : 13 Sep 2012 12:56 am Operator: MNM
Sample : PVI0512-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:15 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

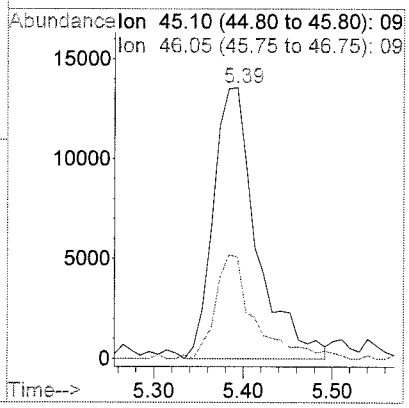


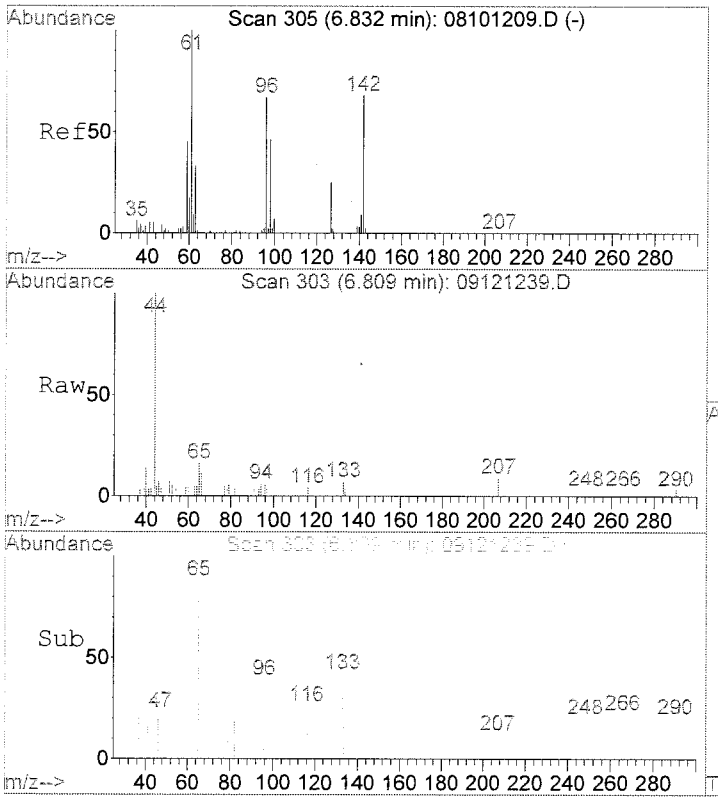


#2
Ethanol
Concen: 1617.11 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 45 Resp: 46113

Ion	Ratio	Lower	Upper
45	100		
46	34.7	39.9	79.9#

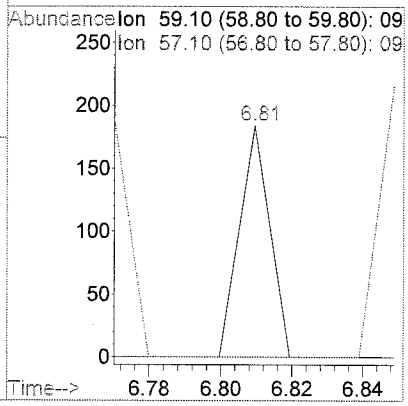


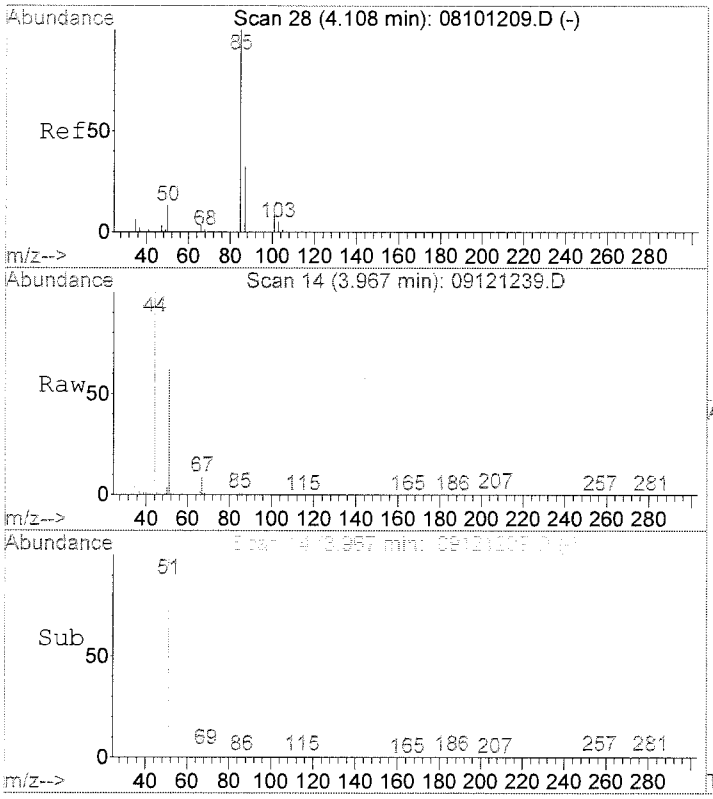


#3
tert-Butanol (TBA)
Concen: 0.35 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.02 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 59 Resp: 109

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#

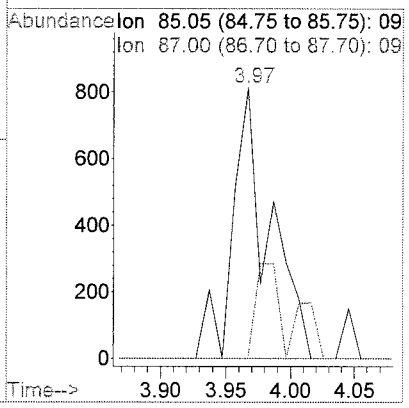




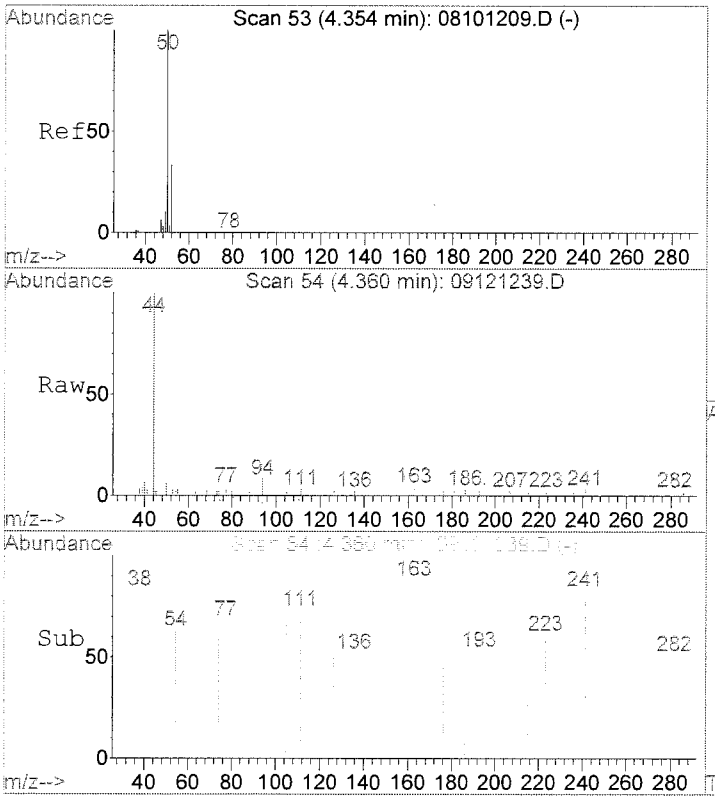
#5
Dichlorodifluoromethane
Concen: 0.17 ug/L
RT: 3.97 min Scan# 14
Delta R.T. -0.14 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 85 Resp: 1594

Ion	Ratio	Lower	Upper
85	100		
87	21.1	11.9	51.9



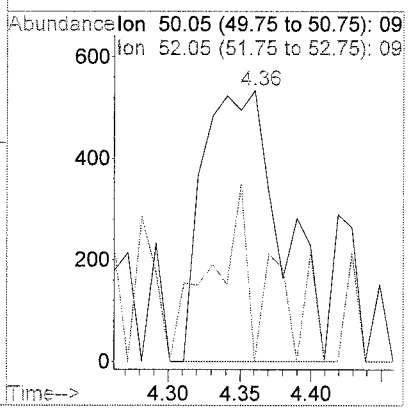
NSM



#6
Chloromethane
Concen: 0.23 ug/L
RT: 4.36 min Scan# 54
Delta R.T. 0.01 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

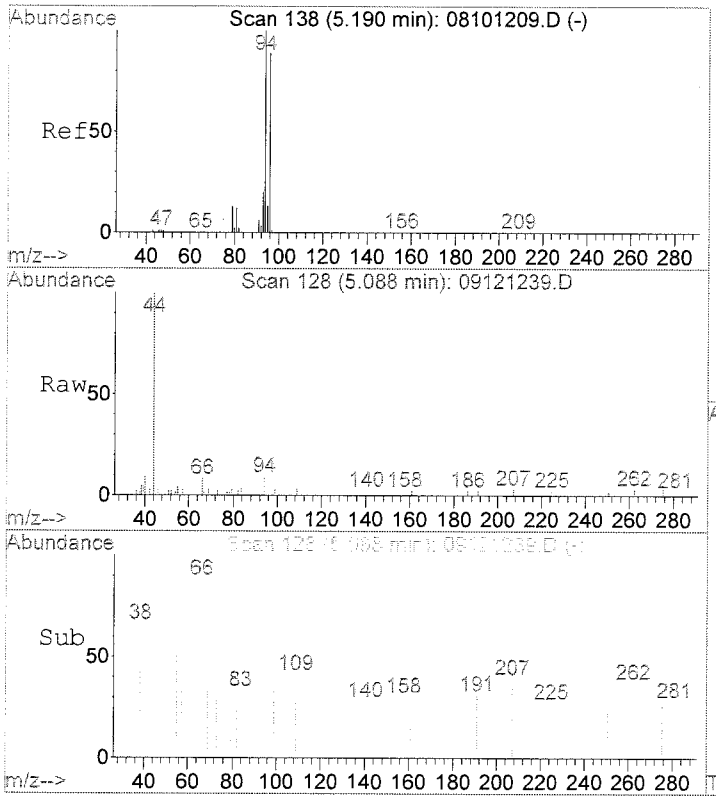
Tgt Ion: 50 Resp: 2011

Ion	Ratio	Lower	Upper
50	100		
52	29.2	12.3	52.3



NSM

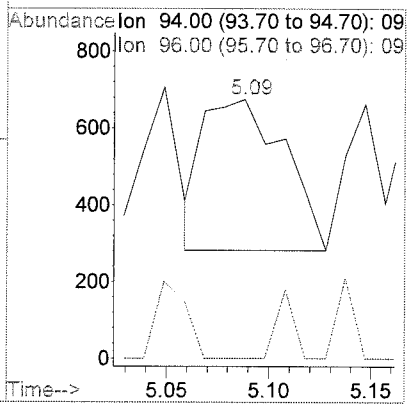
MM

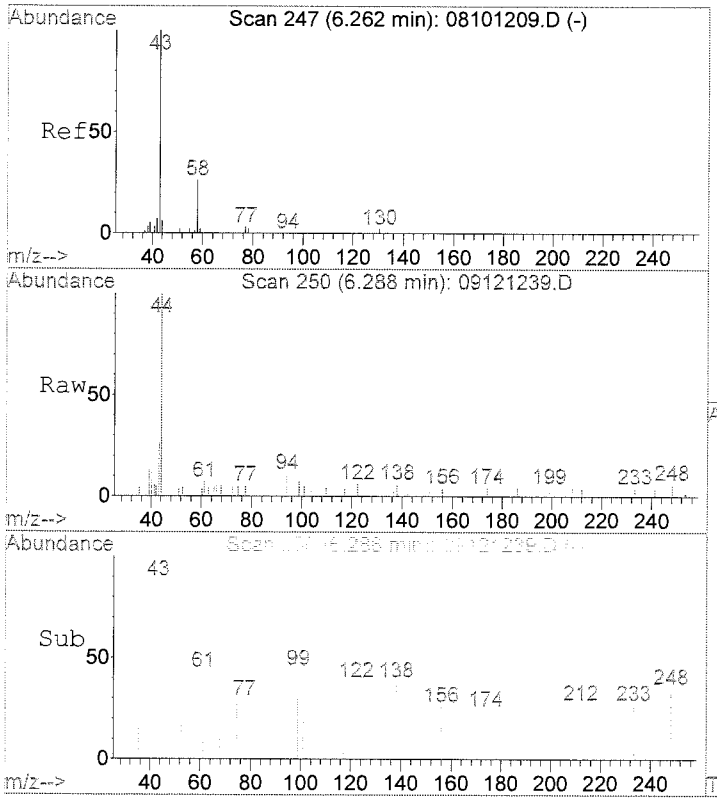


#9
Bromomethane
Concen: 0.22 ug/L
RT: 5.09 min Scan# 128
Delta R.T. -0.10 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 94 Resp: 1094

Ion	Ratio	Lower	Upper
94	100		
96	19.0	75.8	113.6#

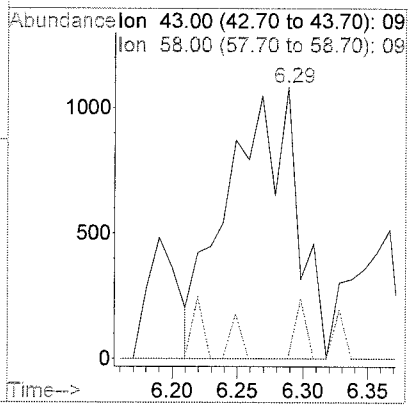


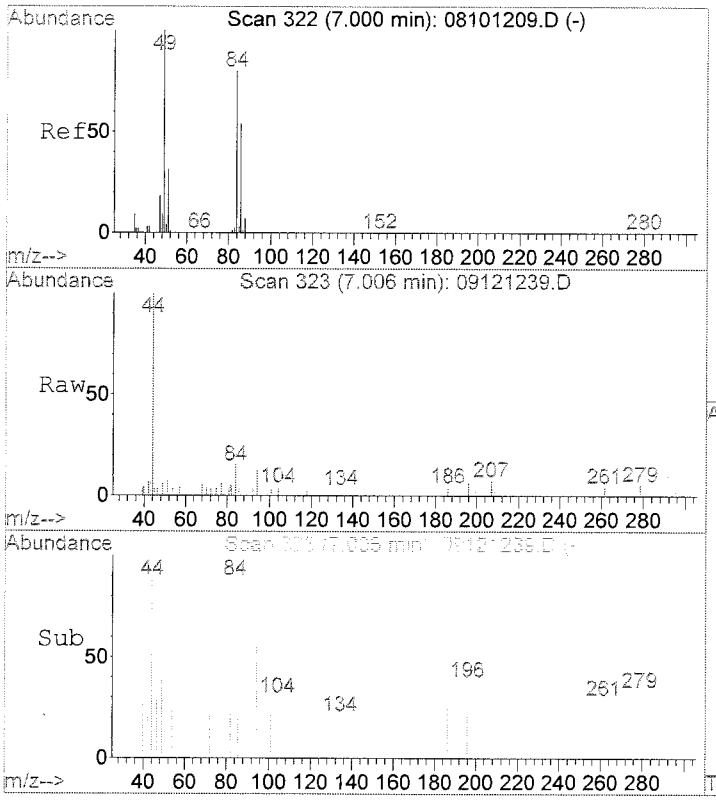


#12
Acetone
Concen: 3.72 ug/L
RT: 6.29 min Scan# 250
Delta R.T. 0.03 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 43 Resp: 3913

Ion	Ratio	Lower	Upper
43	100		
58	3.6	25.9	38.9#

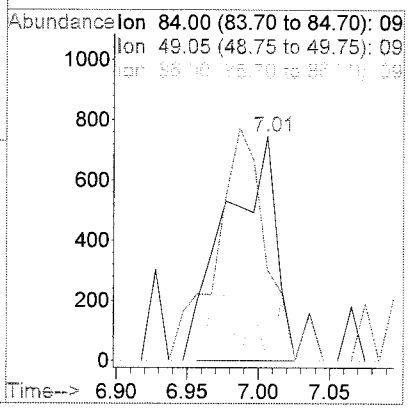


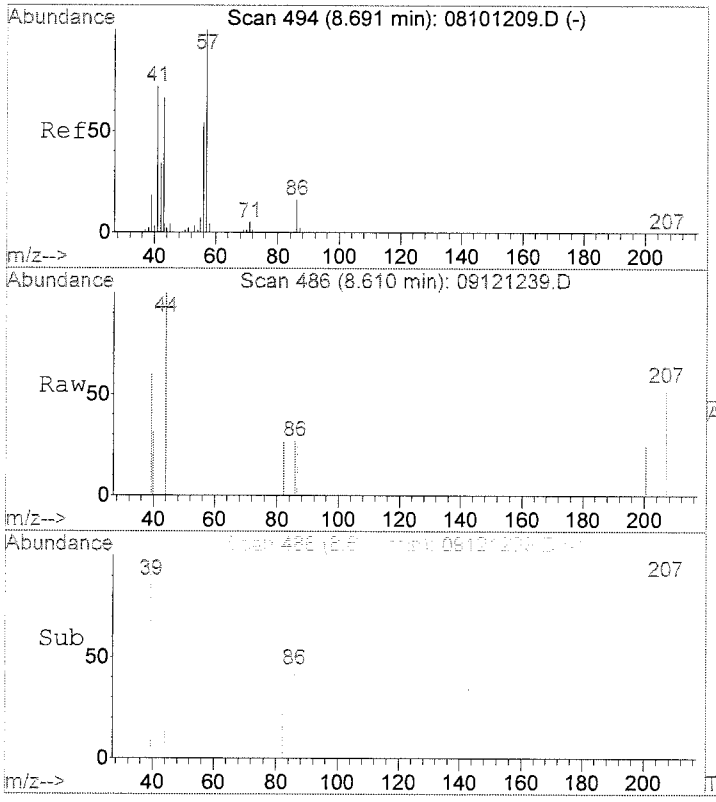


#15
Methylene Chloride
Concen: 0.43 ug/L
RT: 7.01 min Scan# 323
Delta R.T. 0.01 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 84 Resp: 1915

Ion	Ratio	Lower	Upper
84	100		
49	0.0	103.4	155.0#
86	11.5	52.0	78.0#

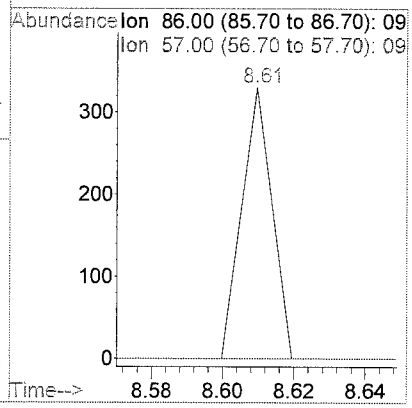


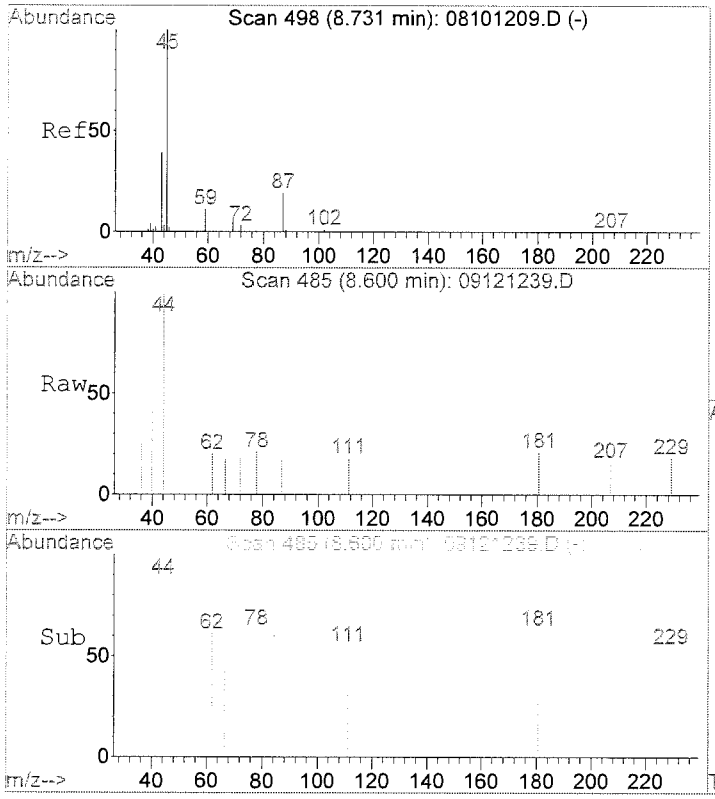


#22
n-Hexane
Concen: 0.14 ug/L
RT: 8.61 min Scan# 486
Delta R.T. -0.08 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 86 Resp: 195

Ion	Ratio	Lower	Upper
86	100		
57	167.2	522.5	783.7#

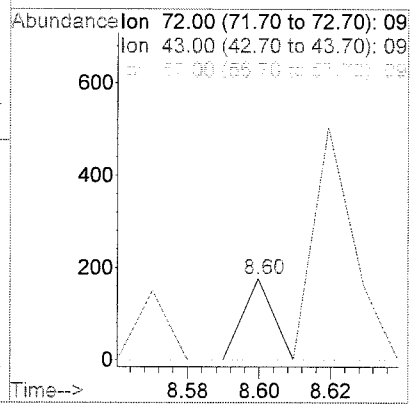


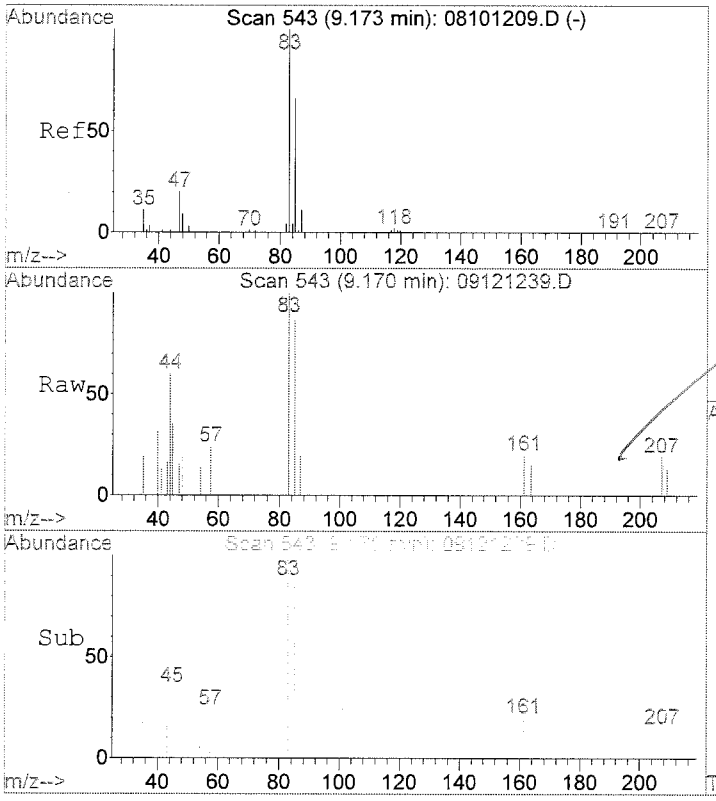


#23
2-Butanone (MEK)
Concen: 0.29 ug/L
RT: 8.60 min Scan# 485
Delta R.T. -0.13 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 72 Resp: 104

Ion	Ratio	Lower	Upper
72	100		
43	378.8	1366.5	2049.7#
57	313.5	0.0	0.0#

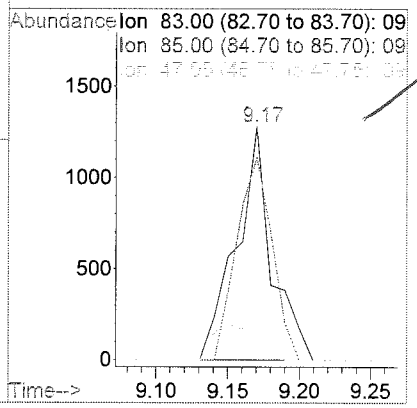


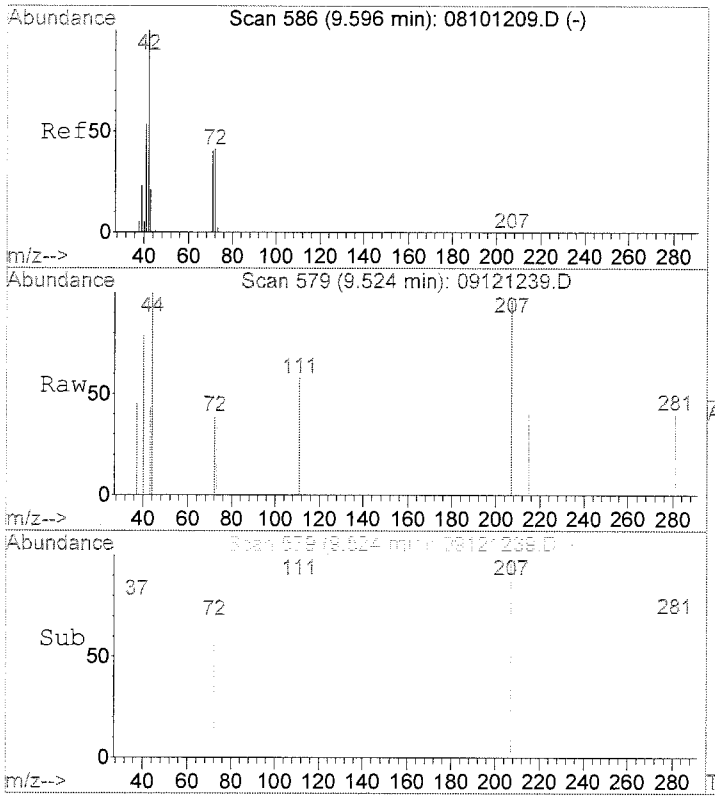


#27
Chloroform
Concen: 0.28 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 83 Resp: 2186

Ion	Ratio	Lower	Upper
83	100		
85	87.5	51.6	77.4#
47	25.3	18.9	28.3

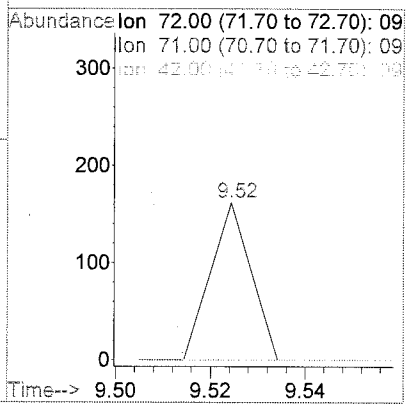


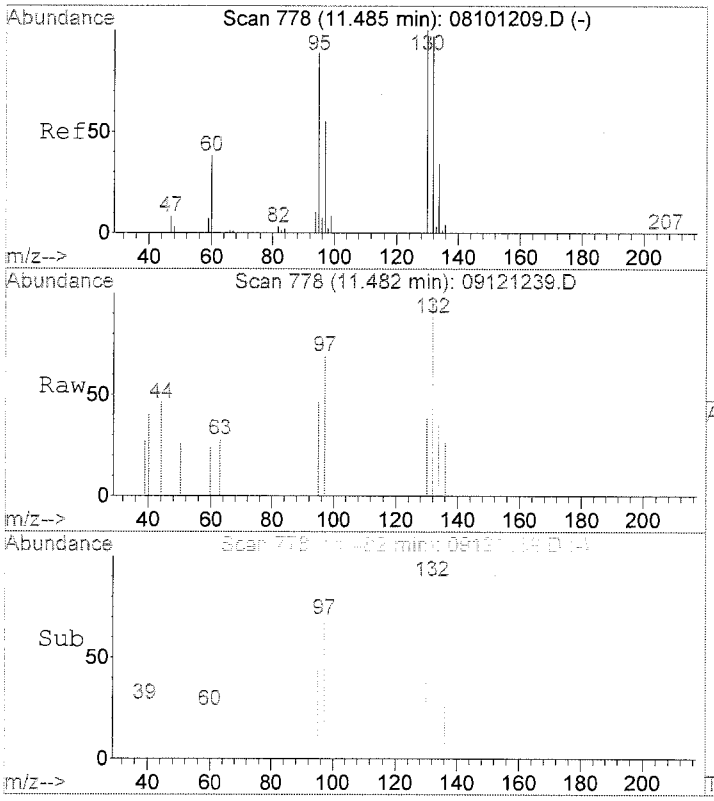


#31
Tetrahydrofuran
Concen: 0.29 ug/L
RT: 9.52 min Scan# 579
Delta R.T. -0.07 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 72 Resp: 96

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	147.9	217.1	325.7#

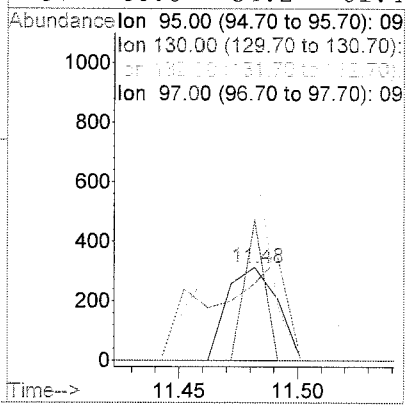


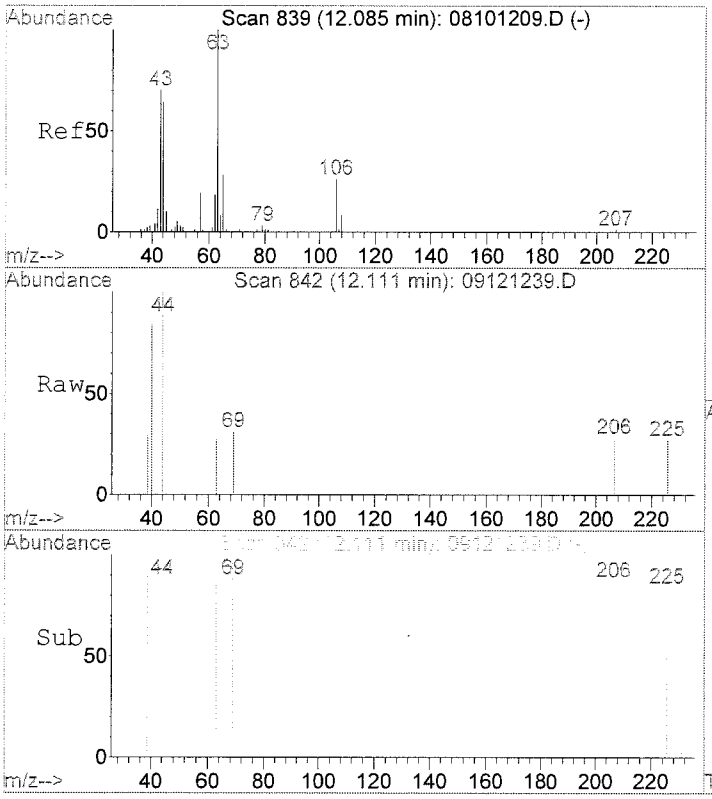


#41
Trichloroethene
Concen: 0.10 ug/L
RT: 11.48 min Scan# 778
Delta R.T. -0.00 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 95 Resp: 459

Ion	Ratio	Lower	Upper
95	100		
130	157.1	87.3	130.9#
132	197.2	84.2	126.4#
97	60.8	54.2	81.4

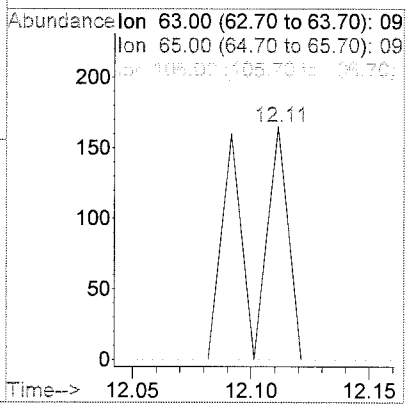


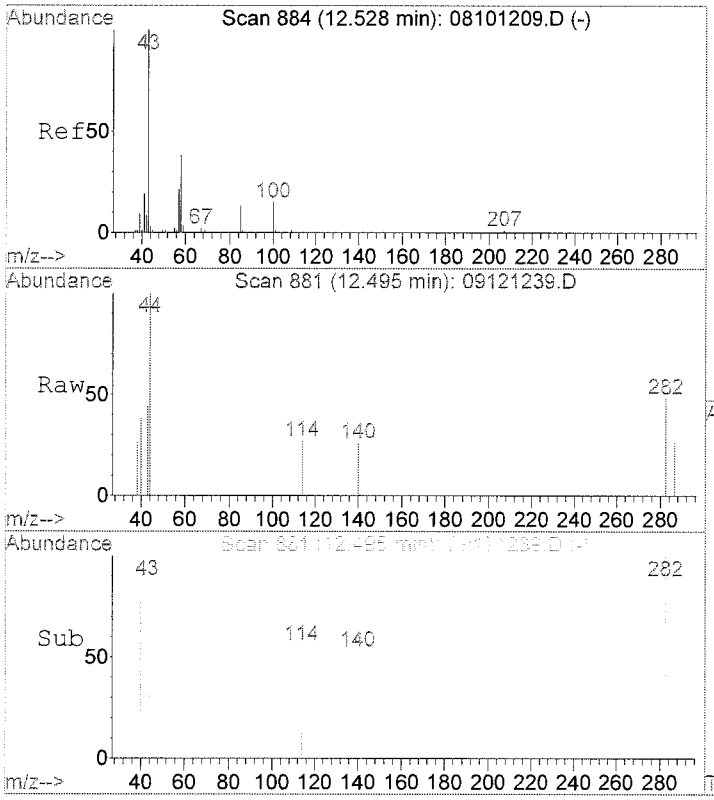


#43
2-Chlorovinylethylether
Concen: 0.13 ug/L
RT: 12.11 min Scan# 842
Delta R.T. 0.03 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 63 Resp: 192

Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.9	38.9#
106	0.0	20.4	30.6#

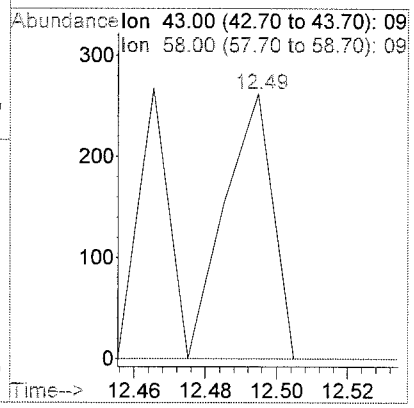


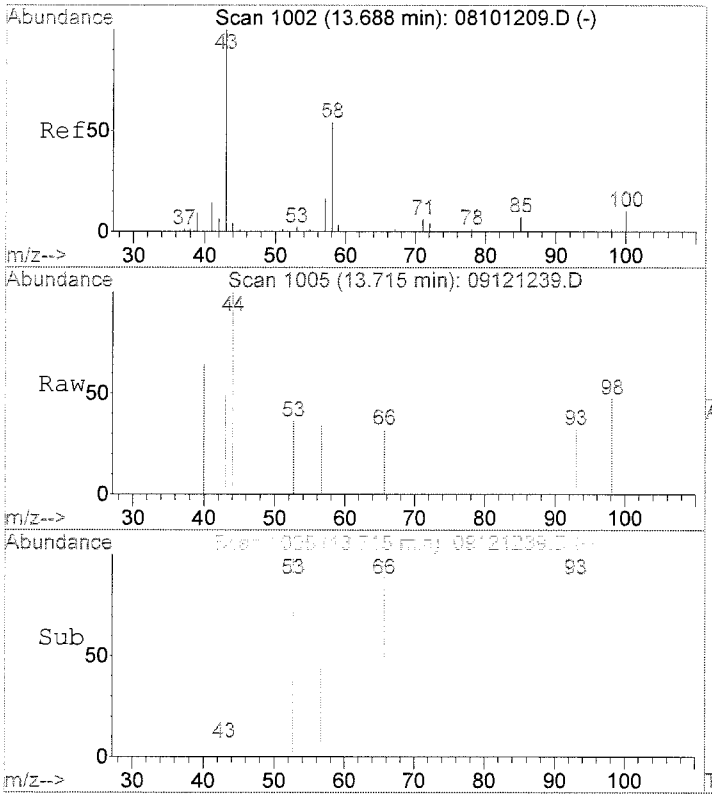


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.10 ug/L
RT: 12.49 min Scan# 881
Delta R.T. -0.03 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 43 Resp: 246

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

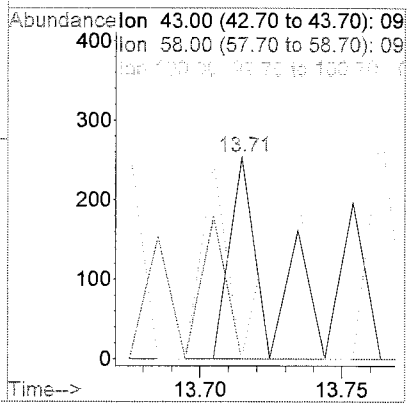




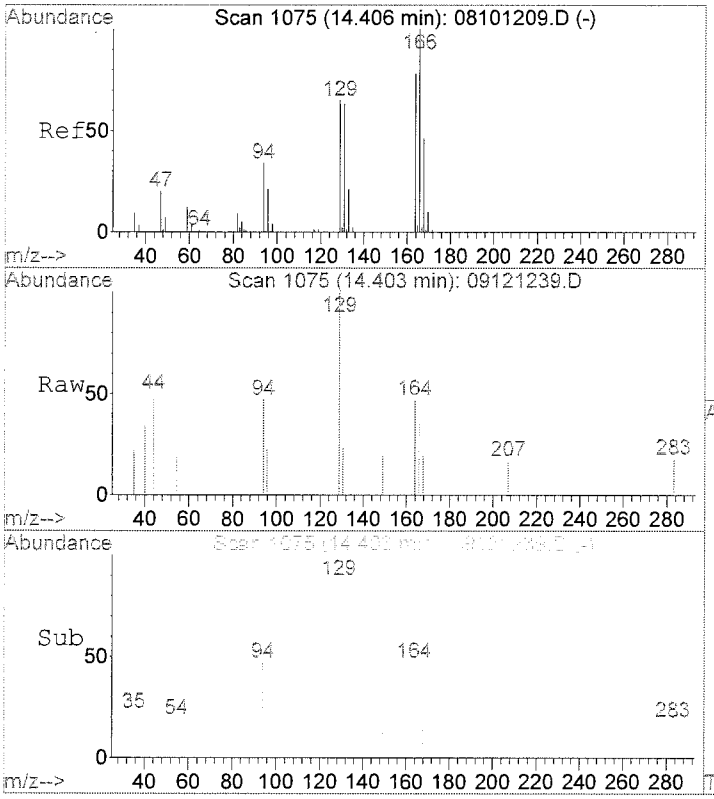
#52
2-Hexanone
Concen: 0.14 ug/L
RT: 13.71 min Scan# 1005
Delta R.T. 0.03 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 43 Resp: 246

Ion	Ratio	Lower	Upper
43	100		
58	43.1	41.0	61.4
100	0.0	8.6	12.8#



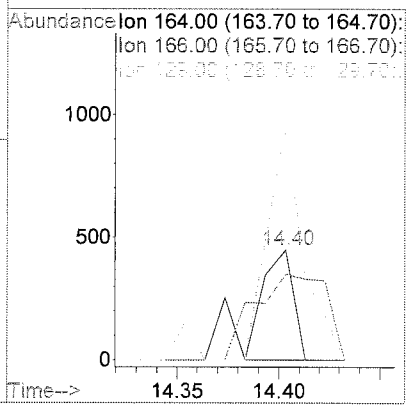
9



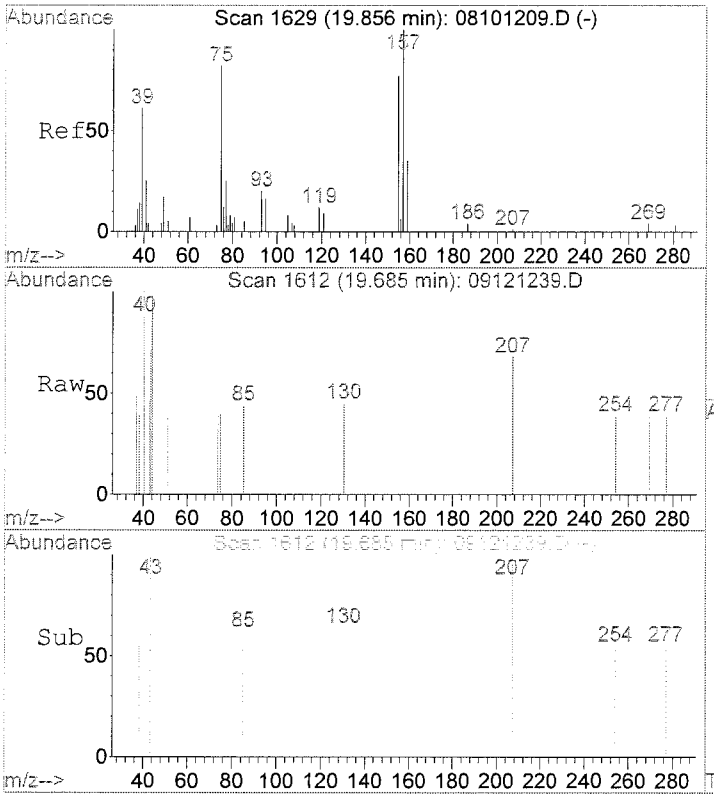
#55
Tetrachloroethene
Concen: 0.15 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion:164 Resp: 619

Ion	Ratio	Lower	Upper
164	100		
166	139.9	102.1	153.1
129	186.1	66.5	99.7#



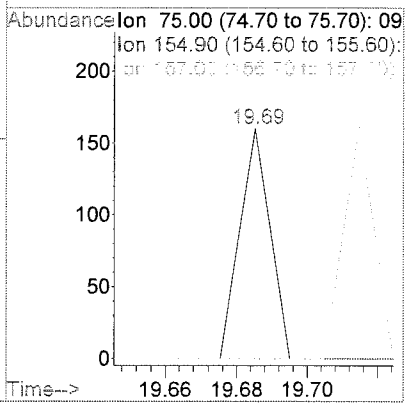
MM



#82
1,2-Dibromo-3-chloropropane
Concen: 0.56 ug/L
RT: 19.69 min Scan# 1612
Delta R.T. -0.17 min
Lab File: 09121239.D
Acq: 13 Sep 2012 12:56 am

Tgt Ion: 75 Resp: 94

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	214.9	110.1	165.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121240.D Vial: 18
Acq On : 13 Sep 2012 1:29 am Operator: MNM
Sample : PVI0512-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	61033	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	265827	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	363116	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	264583	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	96922	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	123792	26.63 ug/L	0.00
Spiked Amount 25.000			Recovery =	106.52%	
48) Toluene-d8	13.32	98	356282	24.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.40%	
62) 4-Bromofluorobenzene	16.95	95	100081	24.48 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.92%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	41655	1265.93 ug/L #	70
3) tert-Butanol (TBA)	6.84	59	114	0.32 ug/L #	1
9) Bromomethane	5.17	94	1347	0.25 ug/L #	21
12) Acetone	6.25	43	1782	1.59 ug/L #	78
15) Methylene Chloride	6.99	84	1640	0.34 ug/L #	82
25) cis-1,2-Dichloroethene	8.91	96	715	0.13 ug/L #	26
27) Chloroform	9.17	83	2921	0.35 ug/L #	90
41) Trichloroethene	11.47	95	797	0.15 ug/L #	64
52) 2-Hexanone	13.66	43	402	0.20 ug/L #	70
55) Tetrachloroethene	14.40	164	454	0.10 ug/L #	60
66) 1,2,3-Trichloropropane	16.42	110	94	0.15 ug/L #	31
67) trans-1,4-Dichloro-2-buten	16.78	53	117	1.20 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.92	75	239	1.06 ug/L #	9
85) Hexachlorobutadiene	22.00	225	91	Below Cal #	20

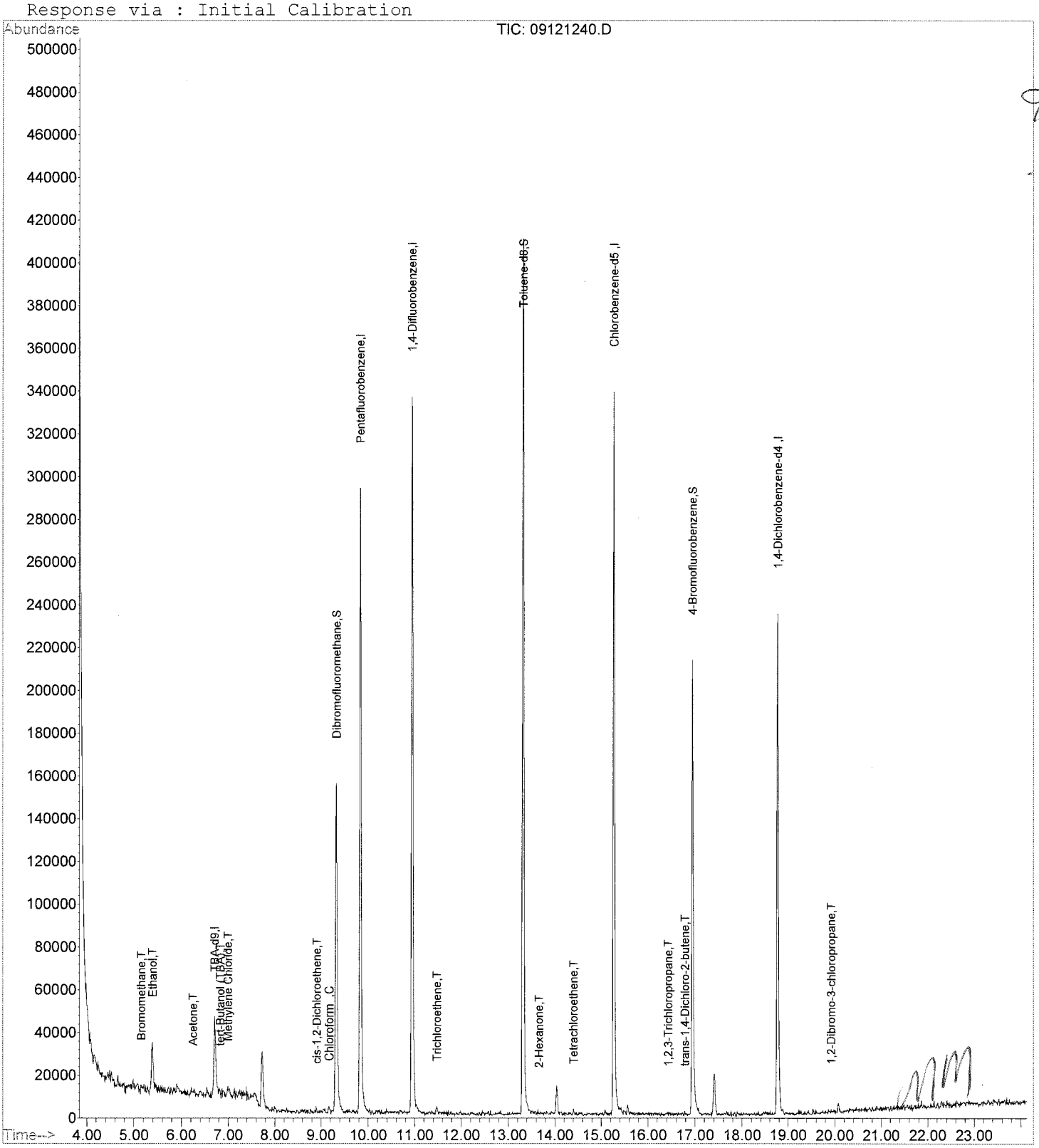
MM 9/13/12

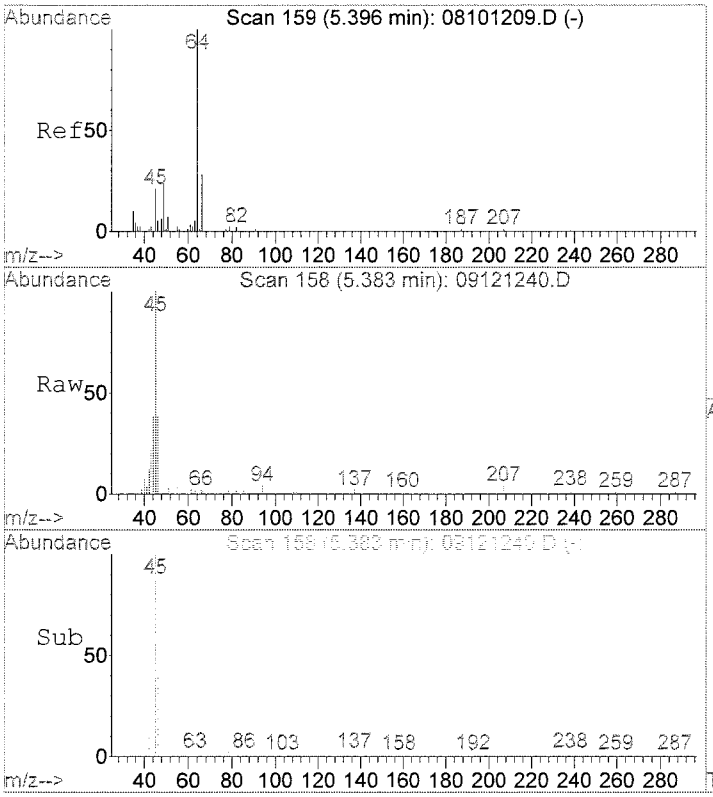
(#) = qualifier out of range (m) = manual integration
09121240.D 081012.M Thu Sep 13 07:05:18 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091212\09121240.D Vial: 18
Acq On : 13 Sep 2012 1:29 am Operator: MNM
Sample : PVI0512-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 6:15 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

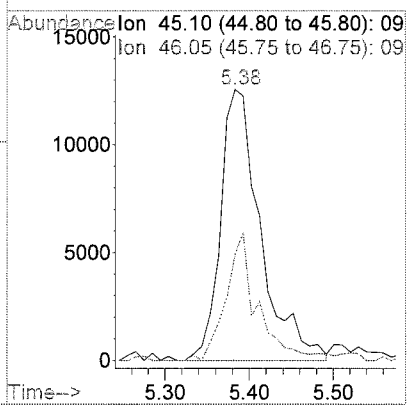


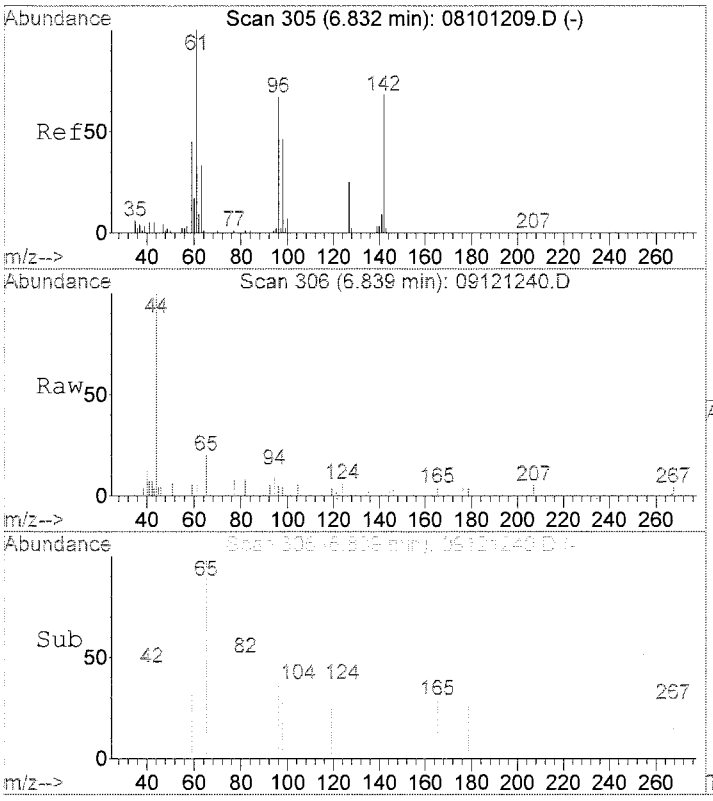


#2
Ethanol
Concen: 1265.93 ug/L
RT: 5.38 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 45 Resp: 41655

Ion	Ratio	Lower	Upper
45	100		
46	37.3	39.9	79.9#

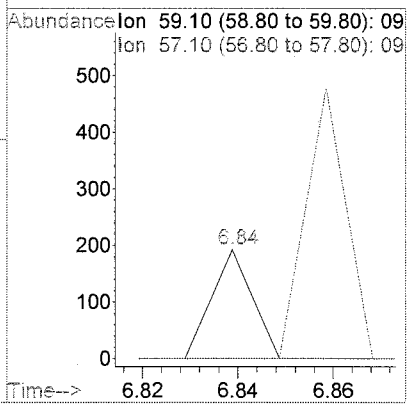


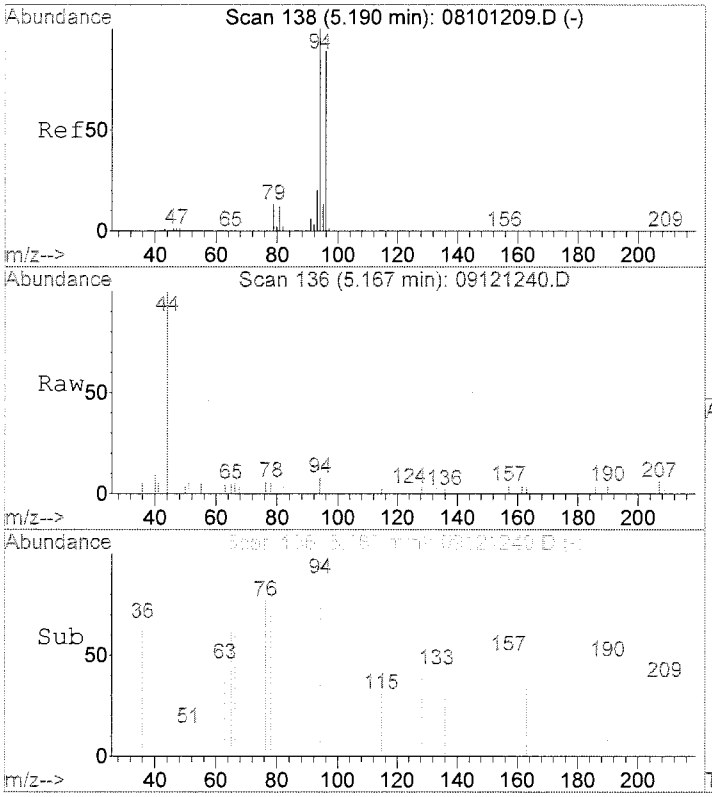


#3
tert-Butanol (TBA)
Concen: 0.32 ug/L
RT: 6.84 min Scan# 306
Delta R.T. 0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 59 Resp: 114

Ion	Ratio	Lower	Upper
59	100		
57	248.2	6.4	9.6#

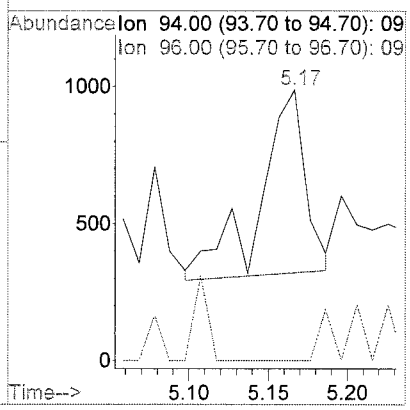




#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.17 min Scan# 136
Delta R.T. -0.02 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 94 Resp: 1347

Ion	Ratio	Lower	Upper
94	100		
96	17.9	75.8	113.6#



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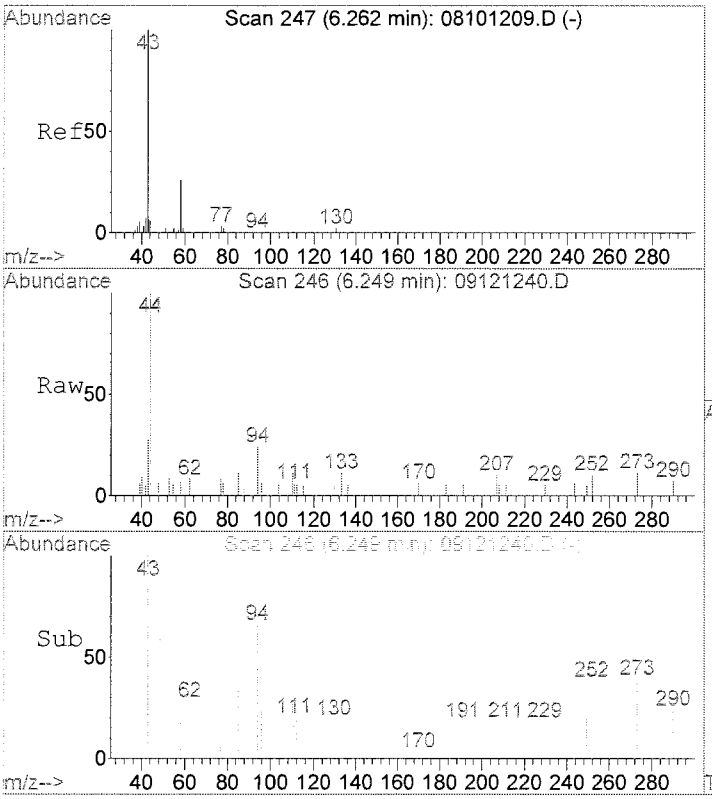
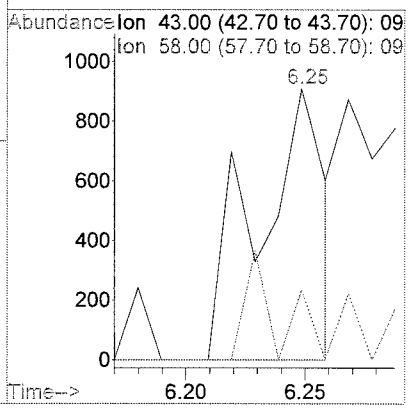


#12
Acetone
Concen: 1.59 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 43 Resp: 1782

Ion	Ratio	Lower	Upper
43	100		
58	19.9	25.9	38.9#



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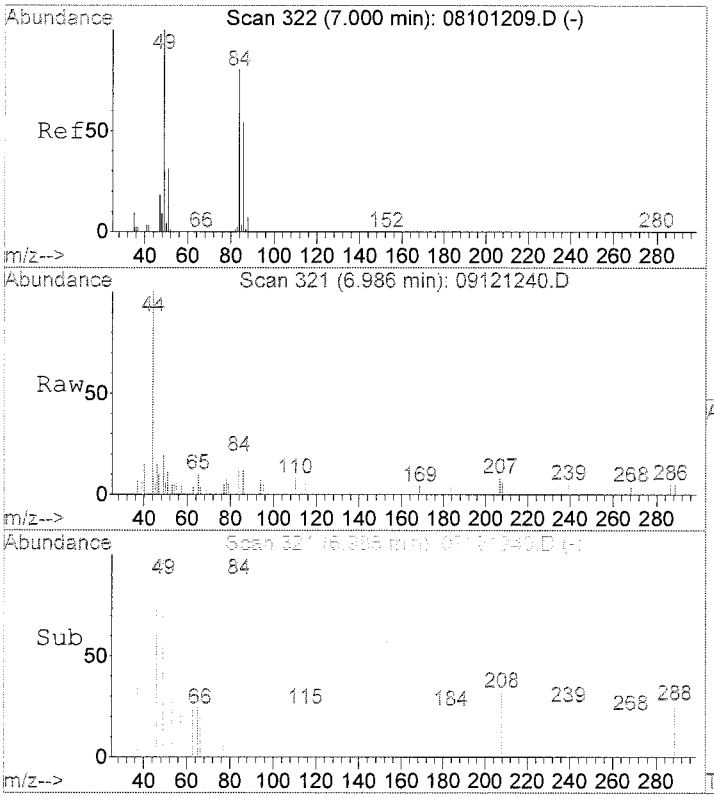
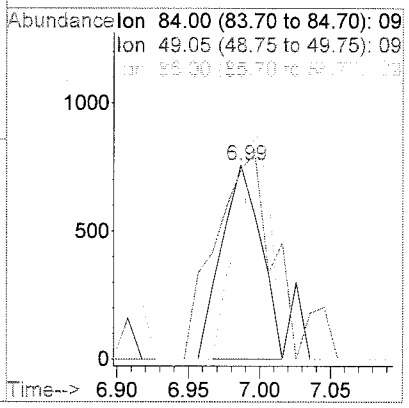
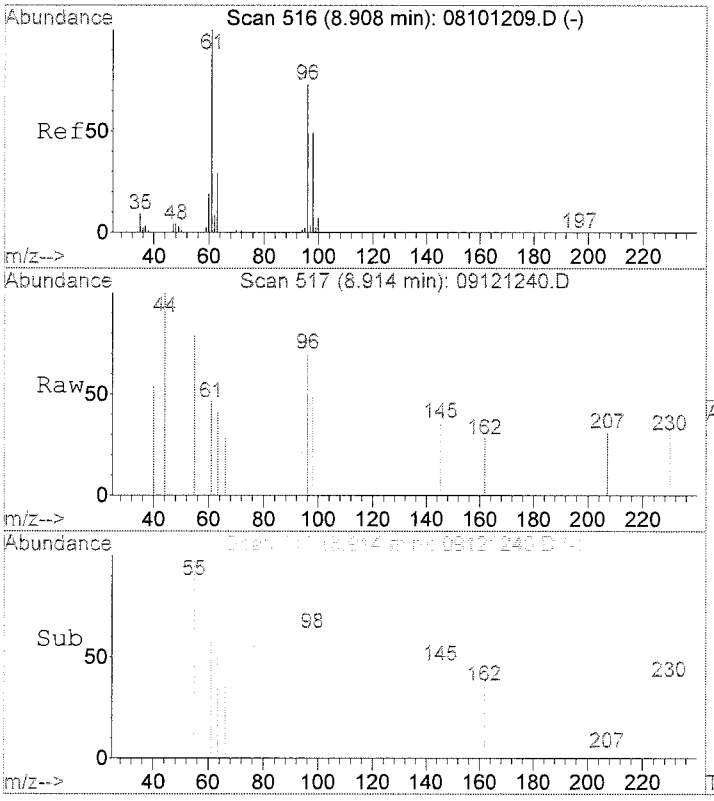


#15
Methylene Chloride
Concen: 0.34 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 84 Resp: 1640

Ion	Ratio	Lower	Upper
84	100		
49	146.4	103.4	155.0
86	85.1	52.0	78.0#

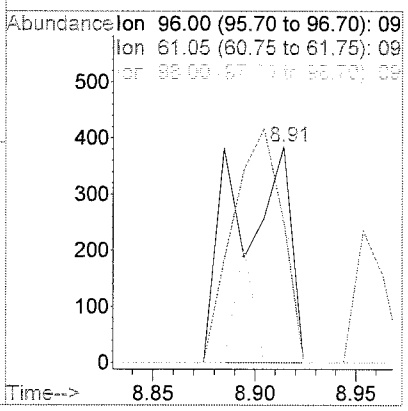


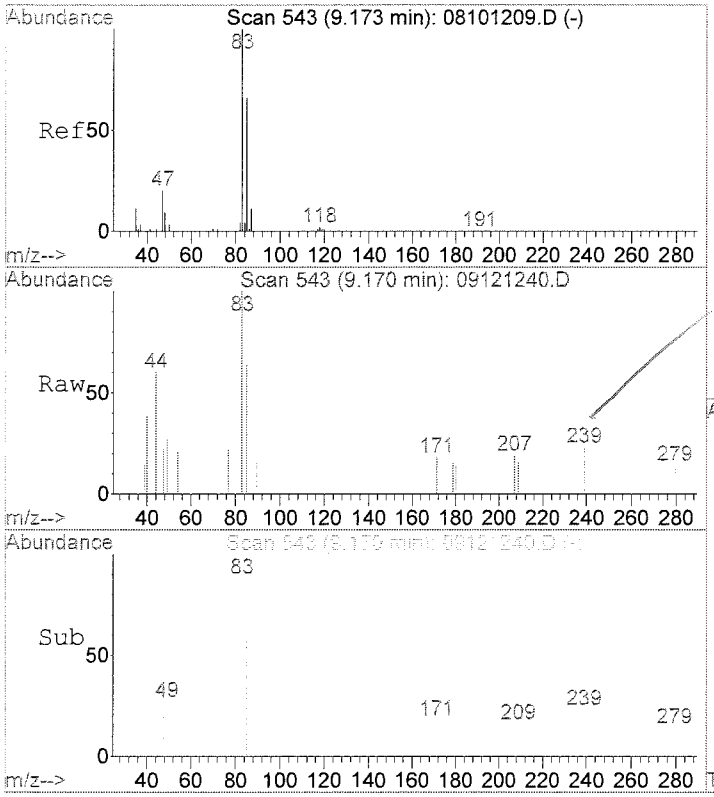


#25
cis-1,2-Dichloroethene
Concen: 0.13 ug/L
RT: 8.91 min Scan# 517
Delta R.T. 0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 96 Resp: 715

Ion	Ratio	Lower	Upper
96	100		
61	32.2	103.2	154.8#
98	22.4	51.4	77.2#

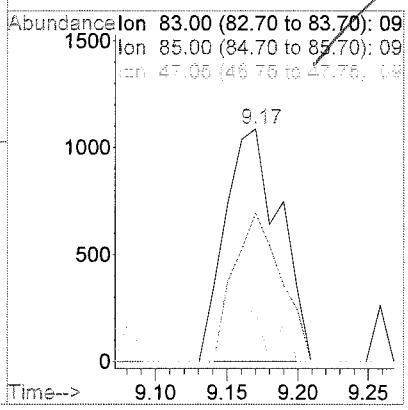


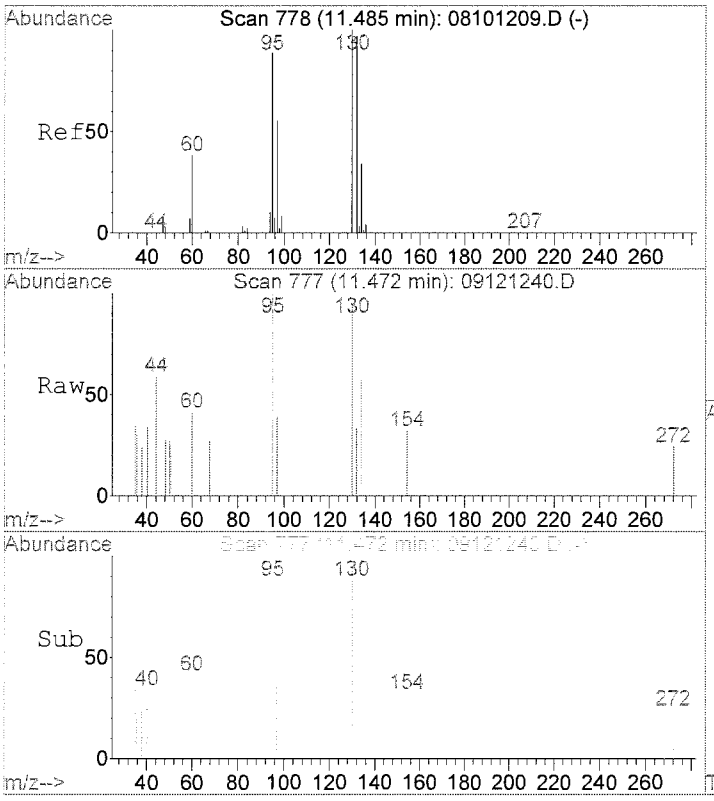


#27
Chloroform
Concen: 0.35 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 83 Resp: 2921

Ion	Ratio	Lower	Upper
83	100		
85	55.3	51.6	77.4
47	20.6	18.9	28.3

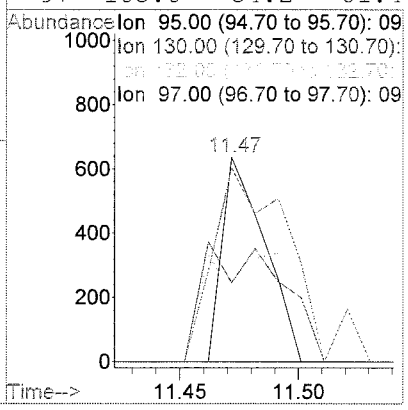




#41
Trichloroethene
Concen: 0.15 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 95 Resp: 797

Ion	Ratio	Lower	Upper
95	100		
130	172.3	87.3	130.9#
132	111.0	84.2	126.4
97	105.0	54.2	81.4#



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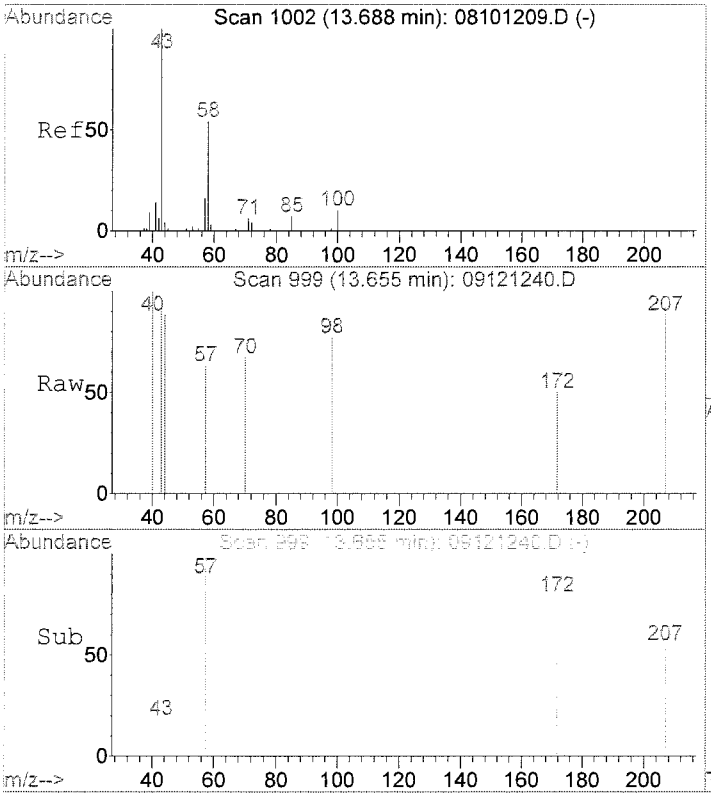
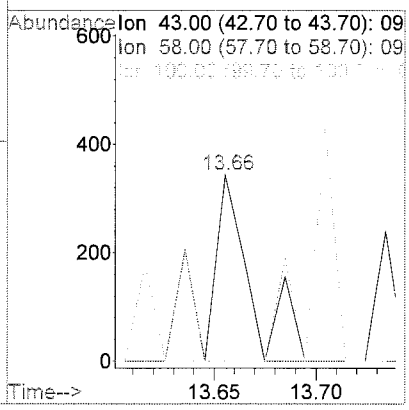
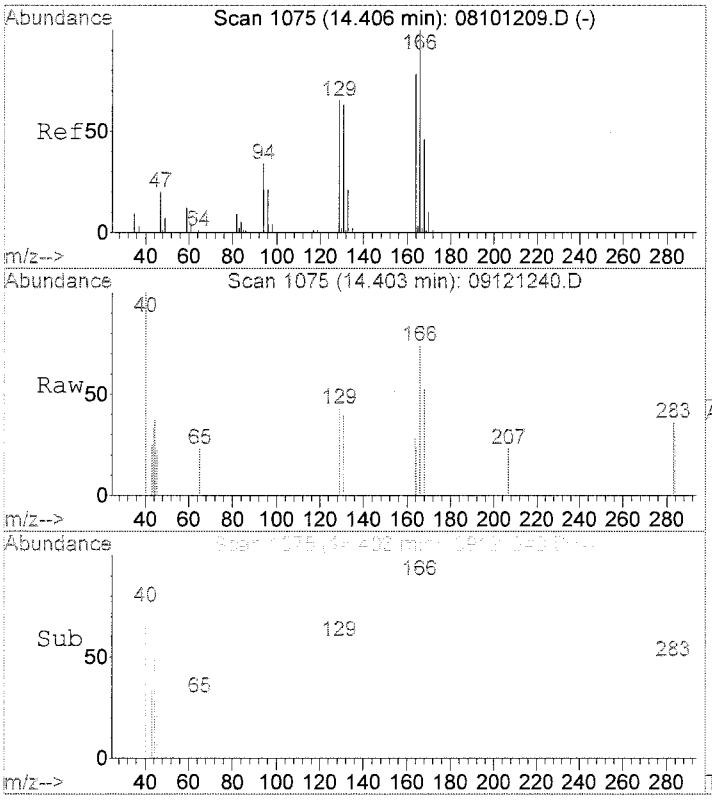


#52
2-Hexanone
Concen: 0.20 ug/L
RT: 13.66 min Scan# 999
Delta R.T. -0.03 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 43 Resp: 402

Ion	Ratio	Lower	Upper
43	100		
58	30.3	41.0	61.4#
100	0.0	8.6	12.8#

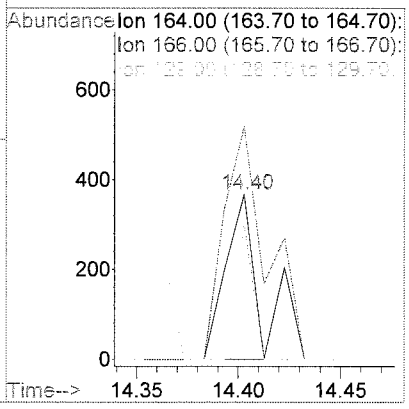




#55
Tetrachloroethene
Concen: 0.10 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

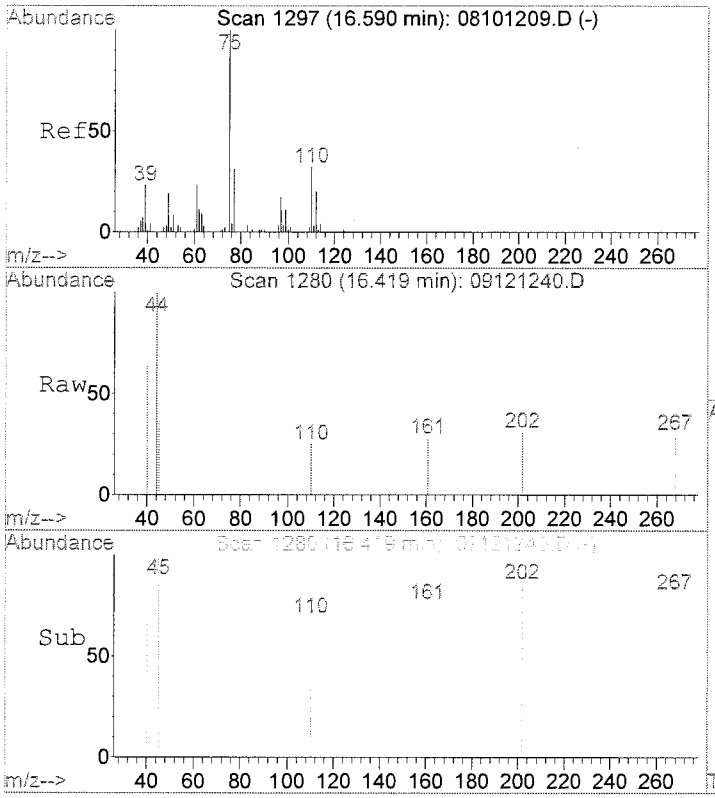
Tgt Ion:164 Resp: 454

Ion	Ratio	Lower	Upper
164	100		
166	168.1	102.1	153.1#
129	39.2	66.5	99.7#



7

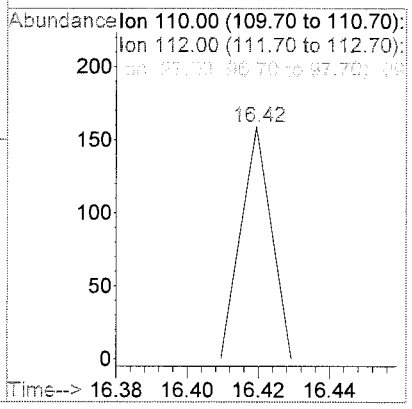
MM

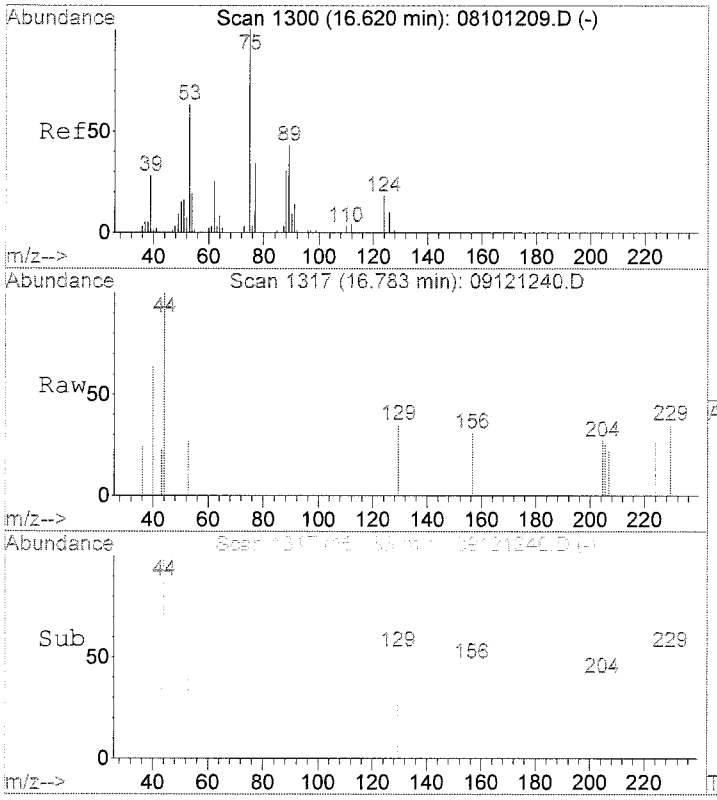


#66
1,2,3-Trichloropropane
Concen: 0.15 ug/L
RT: 16.42 min Scan# 1280
Delta R.T. -0.17 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion:110 Resp: 94

Ion	Ratio	Lower	Upper
110	100		
112	112.8	49.9	74.9#
97	0.0	42.2	63.2#

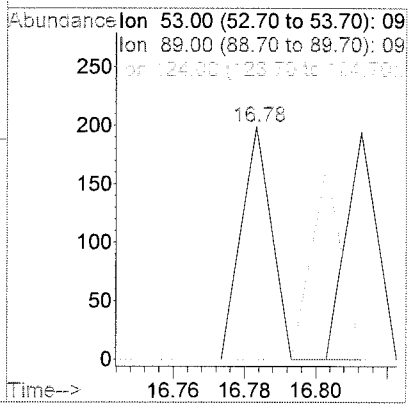


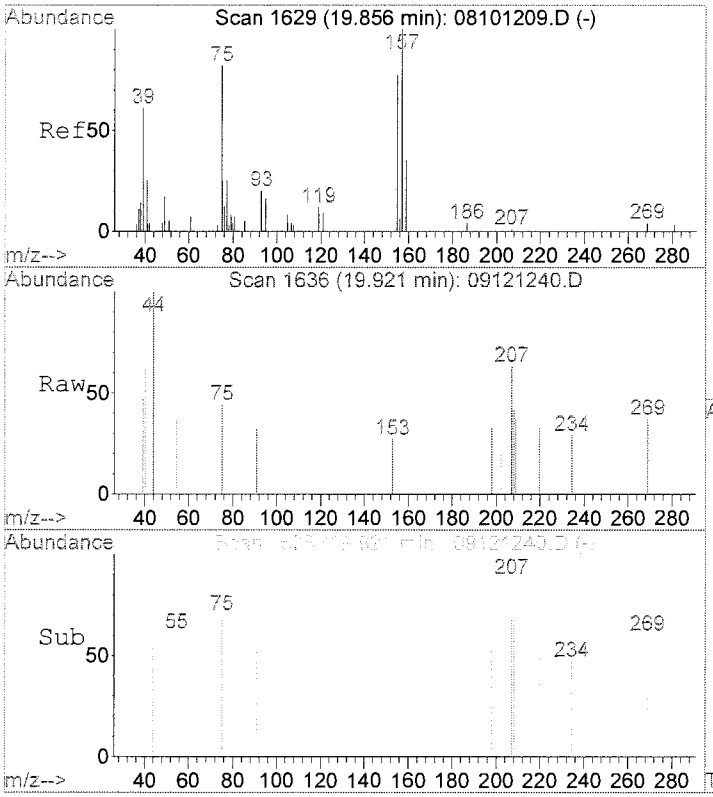


#67
trans-1,4-Dichloro-2-butene
Concen: 1.20 ug/L
RT: 16.78 min Scan# 1317
Delta R.T. 0.16 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 53 Resp: 117

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

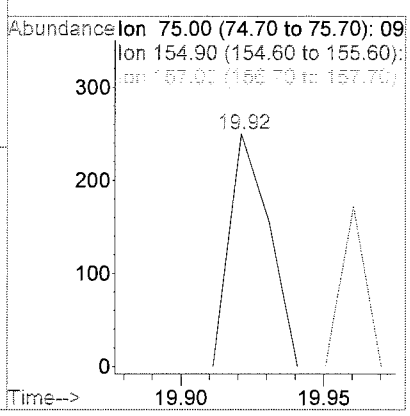




#82
1,2-Dibromo-3-chloropropane
Concen: 1.06 ug/L
RT: 19.92 min Scan# 1636
Delta R.T. 0.07 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion: 75 Resp: 239

Ion	Ratio	Lower	Upper
75	100		
155	42.7	82.6	124.0#
157	0.0	110.1	165.1#



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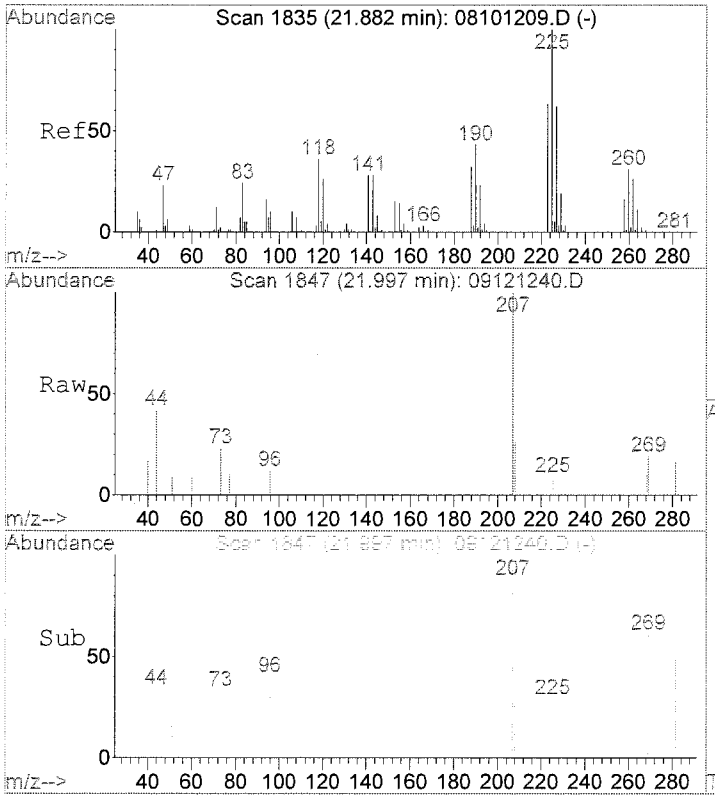
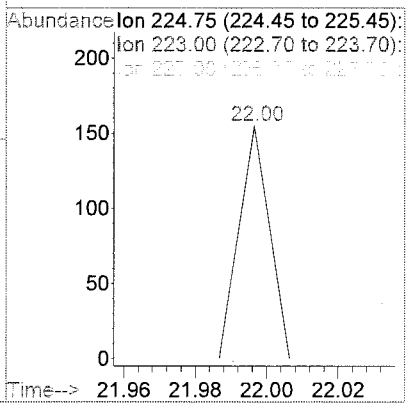


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 22.00 min Scan# 1847
Delta R.T. 0.12 min
Lab File: 09121240.D
Acq: 13 Sep 2012 1:29 am

Tgt Ion:225 Resp: 91

Ion	Ratio	Lower	Upper
225	100		
223	0.0	47.8	71.8#
227	0.0	50.6	75.8#



MM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV04717

Description:	8260 50ppm SS	Expires:	08/14/12
Standard Type:	Analyte Spike	Prepared:	08/02/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/02/12 05:25 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU07320	SS 54 Compounds (O2SI)	07/18/12	Melissa Spencer	12/18/12	07/18/12 06:31 by MNM	0.05
PU07325	8260 Gases O2SI	07/31/12	Kaycee Halla	08/14/12	07/31/12 13:23 by KH	0.05
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV01265	2-Chloroethyl vinyl ether	07/23/12	Lauren Mayes	01/23/13	07/23/12 14:22 by LMM	0.05
PV02578	SS Custom 8260 VOC Mix	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:29 by MNM	0.05
PV04410	O2SI Additions	07/20/12	** Vendor **	08/20/12	07/27/12 17:09 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Description:	SS 54 Compounds (O2SI)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:31 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07325

Description:	8260 Gases O2SI	Expires:	08/14/12
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:23 by KH

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01265

Description:	2-Chloroethyl vinyl ether	Expires:	01/23/13
Standard Type:	Other	Prepared:	07/23/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/23/12 14:22 by LMM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02578

Description:	SS Custom 8260 VOC Mix	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:29 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04410

Description:	O2SI Additions	Expires:	08/20/12
Standard Type:	Other	Prepared:	07/20/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/27/12 17:09 by ExH

Catalog # 120561-01
Vial cracked: changed expiration/prep date ExH 07/27/12

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04303

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	08/17/12
Standard Type:	Analyte Spike	Prepared:	07/17/12
Solvent:	MEOH/117046	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03429	tert-butyl alcohol	06/07/12	Lauren Mayes	12/19/12	06/19/12 15:31 by LMM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03429

Description:	tert-butyl alcohol	Expires:	12/19/12
Standard Type:	Other	Prepared:	06/07/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:31 by LMM

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Description:	8260 2.5 ppm CCV Standard	Expires:	08/15/12
Standard Type:	Calibration Stan	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	2.5	ppm
2-Butanone	78-93-3	2.5	ppm
2-Butanone (MEK)	78-93-3	2.5	ppm
2-Chloroethyl vinyl ether	110-75-8	2.5	ppm
2-Chlorotoluene	95-49-8	2.5	ppm
2-Hexanone	591-78-6	2.5	ppm
4-Chlorotoluene	106-43-4	2.5	ppm
4-Isopropyltoluene	99-87-6	2.5	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	ppm
1,1,1,2-Tetrachloroethane	630-20-6	2.5	ppm
Benzene	71-43-2	2.5	ppm
1,3-Dichloropropane	142-28-9	2.5	ppm
Bromochloromethane	74-97-5	2.5	ppm
Bromodichloromethane	75-27-4	2.5	ppm
Bromoform	75-25-2	2.5	ppm
Bromomethane	74-83-9	2.5	ppm
Carbon disulfide	75-15-0	2.5	ppm
Carbon tetrachloride	56-23-5	2.5	ppm
Chlorobenzene	108-90-7	2.5	ppm
Chloroethane	75-00-3	2.5	ppm
Acetone	67-64-1	2.5	ppm
1,2-Dibromo-3-chloropropane	96-12-8	2.5	ppm
1,1,1-Trichloroethane	71-55-6	2.5	ppm
1,1,2,2-Tetrachloroethane	79-34-5	2.5	ppm
1,1,2-Trichloroethane	79-00-5	2.5	ppm
1,1-Dichloroethane	75-34-3	2.5	ppm
1,1-Dichloroethene	75-35-4	2.5	ppm
1,1-Dichloropropene	563-58-6	2.5	ppm
1,2,3-Trichlorobenzene	87-61-6	2.5	ppm
1,2,3-Trichloropropane	96-18-4	2.5	ppm

Reviewed By Date

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TestAmerica Phoenix

PV04888

2,2-Dichloropropane	594-20-7	2.5	ppm
1,2,4-Trimethylbenzene	95-63-6	2.5	ppm
1,4-Dichlorobenzene	106-46-7	2.5	ppm
1,2-Dibromoethane	106-93-4	2.5	ppm
1,2-Dibromoethane (EDB)	106-93-4	2.5	ppm
1,2-Dichlorobenzene	95-50-1	2.5	ppm
1,2-Dichloroethane	107-06-2	2.5	ppm
1,2-Dichloropropane	78-87-5	2.5	ppm
1,3,5-Trimethylbenzene	108-67-8	2.5	ppm
1,3-Butadiene	106-99-0	2.5	ppm
1,3-Dichlorobenzene	541-73-1	2.5	ppm
cis-1,2-Dichloroethene	156-59-2	2.5	ppm
1,2,4-Trichlorobenzene	120-82-1	2.5	ppm
Tetrachloroethene	127-18-4	2.5	ppm
Chloroform	67-66-3	2.5	ppm
Naphthalene	91-20-3	2.5	ppm
o-Xylene	95-47-6	2.5	ppm
p-Isopropyltoluene	99-87-6	2.5	ppm
p-Xylene	106-42-3	2.5	ppm
sec-Butylbenzene	135-98-8	2.5	ppm
Styrene	100-42-5	2.5	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	2.5	ppm
n-Hexane	110-54-3	2.5	ppm
tert-Butylbenzene	98-06-6	2.5	ppm
n-Butylbenzene	104-51-8	2.5	ppm
Tetrahydrofuran	109-99-9	2.5	ppm
Toluene	108-88-3	2.5	ppm
trans-1,2-Dichloroethene	156-60-5	2.5	ppm
trans-1,3-Dichloropropene	10061-02-6	2.5	ppm
trans-1,4-Dichloro-2-butene	110-57-6	2.5	ppm
Trichloroethene	79-01-6	2.5	ppm
Trichlorofluoromethane	75-69-4	2.5	ppm
Vinyl Acetate	108-05-4	2.5	ppm
Vinyl chloride	75-01-4	2.5	ppm
tert-Butyl ethyl ether	637-92-3	2.5	ppm
Iodomethane	4227-95-6	2.5	ppm
Xylenes, Total	1330-20-7	5	ppm
cis-1,3-Dichloropropene	10061-01-5	2.5	ppm
Di-isopropyl Ether (DIPE)	108-20-3	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Dibromochloromethane	124-48-1	2.5	ppm
Dibromomethane	74-95-3	2.5	ppm
Dichlorodifluoromethane	75-71-8	2.5	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2.5	ppm
Ethylbenzene	100-41-4	2.5	ppm
n-Propylbenzene	103-65-1	2.5	ppm
Hexachlorobutadiene	87-68-3	2.5	ppm
Chloromethane	74-87-3	2.5	ppm
Isopropylbenzene	98-82-8	2.5	ppm
m,p-Xylenes	179601-23-1	2.5	ppm
m-Xylene - Front	108-38-3	2.5	ppm
Methyl Ethyl Ketone	78-93-3	2.5	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2.5	ppm
Methyl tert-Butyl Ether	1634-04-4	2.5	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2.5	ppm
Methylene Chloride	75-09-2	2.5	ppm
MTBE	1634-04-4	2.5	ppm
Freon 113	76-13-1	2.5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04887	8260 50 ppm CCV (No Surr.)	08/10/12	Marbella Mazza	08/15/12	08/22/12 05:32 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Description:	8260 50 ppm CCV (No Surr.)	Expires:	08/15/12
Standard Type:	Analyte Spike	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03588	PS Custom 8260 Mix	06/14/12	Marbella Mazza	11/14/12	06/19/12 09:59 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PU05931	PS 54 Compounds 502/524 (Absolu	06/25/12	Marbella Mazza	11/25/12	08/22/12 05:32 by KH	0.05
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04452	Crescent Gases	08/08/12	Kaycee Halla	08/15/12	08/08/12 15:53 by KH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03588

Description:	PS Custom 8260 Mix	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 09:59 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Description:	PS 54 Compounds 502/524 (Absolute)	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04452

Description:	Crescent Gases	Expires:	08/15/12
Standard Type:	Other	Prepared:	08/08/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/08/12 15:53 by KH

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04792

Description:	50ppm EtOH/25ppmTBA/5ppm Surr	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/13/12 12:38 by KH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	5	ppm
Tert-Butanol (TBA)	75-65-0	25	ppm
t-Butanol (TBA)	75-65-0	25	ppm
Ethanol	64-17-5	50	ppm
Dibromofluoromethane	1868-53-7	5	ppm
4-Bromofluorobenzene	460-00-4	5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04791	PS EtOH/TBA + SURR	08/07/12	Marbella Mazza	09/07/12	08/07/12 12:35 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04791

Description:	PS EtOH/TBA + SURR	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 12:35 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04795

Description:	50 ppm IS/400ppm TBAd9	Expires:	09/07/12
Standard Type:	Reference Mate	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

IS for 2,4.7.

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04794

Description:	8260/624 IS/Surrogate	Expires:	09/07/12
Standard Type:	Surrogate Spike	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04559

Description:	25 ppm 4-BFB	Expires:	08/26/12
Standard Type:	MS Tune Soluti	Prepared:	07/26/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/26/12 07:48 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Description:	8260 50ppm SS	Expires:	09/25/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 05:21 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV03425	2-Chloroethyl vinyl ether	09/11/12	Marbella Mazza	01/11/13	09/11/12 13:31 by MNM	0.05
PV04409	O2SI Additions	09/11/12	Marbella Mazza	10/07/12	09/11/12 13:34 by MNM	0.05
PV04431	8260 Gases O2SI	09/11/12	Marbella Mazza	09/25/12	09/11/12 13:32 by MNM	0.05
PV04684	SS 54 Compounds (O2SI)	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:33 by MNM	0.05
PV05262	SS Custom 8260 VOC Mix	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:35 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03425

Description:	2-Chloroethyl vinyl ether	Expires:	01/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:31 by MNM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04409

Description:	O2SI Additions	Expires:	10/07/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:34 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04431

Description:	8260 Gases O2SI	Expires:	09/25/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:32 by MNM

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Description:	SS 54 Compounds (O2SI)	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:33 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05262

Description:	SS Custom 8260 VOC Mix	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:35 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05606

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	10/12/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MEOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 15:45 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03432	SS tert-butyl alcohol	08/06/12	Kaycee Halla	02/06/14	08/06/12 15:37 by KH	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03432

Description:	SS tert-butyl alcohol	Expires:	02/06/14
Standard Type:	Other	Prepared:	08/06/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/06/12 15:37 by KH

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05431

Description:	PS EtOH/TBA + SURR	Expires:	10/05/12
Standard Type:	Calibration Stan	Prepared:	09/05/12
Solvent:	MeOH/117046	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03646	8260 Surrogates	09/05/12	Marbella Mazza	03/05/14	09/05/12 05:49 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03646

Description:	8260 Surrogates	Expires:	03/05/14
Standard Type:	Other	Prepared:	09/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05519

Description:	50 ppm IS/400ppm TBAd9	Expires:	10/10/12
Standard Type:	Reference Mate	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 15:14 by KH

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05503

Description:	8260/624 IS/Surrogate	Expires:	10/10/12
Standard Type:	Surrogate Spike	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 06:13 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.04
PV03645	8260 Surrogates	08/28/12	Kaycee Halla	02/28/13	08/28/12 08:31 by KH	0.1
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03645

Description:	8260 Surrogates	Expires:	02/28/13
Standard Type:	Other	Prepared:	08/28/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/28/12 08:31 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05230

Description:	25 ppm 4-BFB	Expires:	09/27/12
Standard Type:	MS Tune Soluti	Prepared:	08/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/27/12 04:18 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Description:	8260 50 ppm CCV (No Surr.)	Expires:	09/14/12
Standard Type:	Analyte Spike	Prepared:	09/07/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:10 by MNM

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU02260	PS 54 Compounds (Absolute)	08/31/12	Marbella Mazza	02/13/13	08/31/12 04:27 by MNM	0.05
PU03586	PS Custom 8260 Mix	08/14/12	Kaycee Halla	02/14/13	08/16/12 08:04 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05
PV05003	Crescent Gases	09/07/12	Marbella Mazza	09/14/12	09/07/12 06:08 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Description:	PS 54 Compounds (Absolute)	Expires:	02/13/13
Standard Type:	Other	Prepared:	08/31/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/31/12 04:27 by MNM

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03586

Description:	PS Custom 8260 Mix	Expires:	02/14/13
Standard Type:	Other	Prepared:	08/14/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/16/12 08:04 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05003

Description:	Crescent Gases	Expires:	09/14/12
Standard Type:	Other	Prepared:	09/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:08 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVI0635

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, and 505

Sampled: 09/11/12
Received: 09/11/12
Issued: 09/20/12 15:10

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVI0635-01	Trip Blank	Water
PVI0635-02	MW3M2-091112	Water
PVI0635-03	MW3S-091112	Water
PVI0635-04	MW3M-091112	Water
PVI0635-05	MW1S-091112-A	Water
PVI0635-06	MW1S-091112-B	Water
PVI0635-07	MW1M-091112	Water
PVI0635-08	MW1M2-091112	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

PVI0635

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Site Contact: Laura Menken	Date: 9/11/12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	___ of ___ COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No.
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) _____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☒ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
TRIP BLANK	—	—	~~GW~~	~~W~~	1		X		X	-01
MW3M2-091112	9/11/12	8:50	GW	W	3		X		X	-02
MW3S-091112	9/11/12	9:10	GW	W	9		X	X	X	-03
MW3M-091112	9/11/12	11:30	GW	W	3		X		X	-04
MW1S-091112-A	9/11/12	12:05	GW	W	3		X		X	-05
MW1S-091112-B	9/11/12	12:13	GW	W	3		X		X	-06
MW1M-091112	9/11/12	13:35	GW	W	3		X		X	-07
MW1M2-091112	9/11/12	15:40	GW	W	3		X		X	-08

Preservation Used: 1= Ice, (2= HCl); 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: *Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, steve.Allard@CH2M.com.*

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	9/11/12 16:49			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company:	Date/Time: 9-11-12 1649

2.1.C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-01 (Trip Blank - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0465	7.3	10	ND	1	09/13/12	09/13/12	E8
Benzene	EPA 8260B	12I0465	0.12	0.50	ND	1	09/13/12	09/13/12	E8
Bromobenzene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
Bromochloromethane	EPA 8260B	12I0465	0.27	0.50	ND	1	09/13/12	09/13/12	E8
Bromodichloromethane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
Bromoform	EPA 8260B	12I0465	0.37	1.0	ND	1	09/13/12	09/13/12	E8
Bromomethane	EPA 8260B	12I0465	0.67	1.0	ND	1	09/13/12	09/13/12	E8
2-Butanone (MEK)	EPA 8260B	12I0465	2.2	5.0	ND	1	09/13/12	09/13/12	E8
tert-Butylbenzene	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
n-Butylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
sec-Butylbenzene	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
Carbon disulfide	EPA 8260B	12I0465	0.86	1.0	ND	1	09/13/12	09/13/12	E8
Carbon tetrachloride	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
Chlorobenzene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
Chloroethane	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
Chloroform	EPA 8260B	12I0465	0.13	0.50	ND	1	09/13/12	09/13/12	E8
Chloromethane	EPA 8260B	12I0465	0.21	1.0	ND	1	09/13/12	09/13/12	E8
4-Chlorotoluene	EPA 8260B	12I0465	0.20	0.50	ND	1	09/13/12	09/13/12	E8
2-Chlorotoluene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0465	0.82	5.0	ND	1	09/13/12	09/13/12	E8
Dibromochloromethane	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0465	0.30	0.50	ND	1	09/13/12	09/13/12	E8
Dibromomethane	EPA 8260B	12I0465	0.26	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloroethane	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichloroethane	EPA 8260B	12I0465	0.31	0.50	ND	1	09/13/12	09/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0465	0.29	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloroethene	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichloropropane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
2,2-Dichloropropane	EPA 8260B	12I0465	0.18	1.0	ND	1	09/13/12	09/13/12	E8
1,3-Dichloropropane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloropropene	EPA 8260B	12I0465	0.20	0.50	ND	1	09/13/12	09/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0465	0.47	0.50	ND	1	09/13/12	09/13/12	E8
Ethylbenzene	EPA 8260B	12I0465	0.32	0.50	ND	1	09/13/12	09/13/12	E8
Hexachlorobutadiene	EPA 8260B	12I0465	0.28	1.0	ND	1	09/13/12	09/13/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-01 (Trip Blank - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0465	1.5	5.0	ND	1	09/13/12	09/13/12	E8
Iodomethane	EPA 8260B	12I0465	0.21	2.5	ND	1	09/13/12	09/13/12	E8
Isopropylbenzene	EPA 8260B	12I0465	0.26	0.50	ND	1	09/13/12	09/13/12	E8
p-Isopropyltoluene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
Methylene Chloride	EPA 8260B	12I0465	0.67	1.0	ND	1	09/13/12	09/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0465	1.3	2.5	ND	1	09/13/12	09/13/12	E8
Naphthalene	EPA 8260B	12I0465	0.51	2.5	ND	1	09/13/12	09/13/12	E8
n-Propylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Styrene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0465	0.35	0.50	ND	1	09/13/12	09/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0465	0.33	0.50	ND	1	09/13/12	09/13/12	E8
Tetrachloroethene	EPA 8260B	12I0465	0.18	0.50	ND	1	09/13/12	09/13/12	E8
Toluene	EPA 8260B	12I0465	0.28	0.50	ND	1	09/13/12	09/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0465	0.32	1.0	ND	1	09/13/12	09/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0465	0.45	1.0	ND	1	09/13/12	09/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0465	0.31	0.50	ND	1	09/13/12	09/13/12	E8
Trichloroethene	EPA 8260B	12I0465	0.24	0.50	ND	1	09/13/12	09/13/12	E8
Trichlorofluoromethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0465	0.78	2.0	ND	1	09/13/12	09/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Vinyl Acetate	EPA 8260B	12I0465	0.81	2.0	ND	1	09/13/12	09/13/12	E8
Vinyl chloride	EPA 8260B	12I0465	0.18	0.50	ND	1	09/13/12	09/13/12	E8
Xylenes, Total	EPA 8260B	12I0465	0.86	1.0	ND	1	09/13/12	09/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*107 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-02 (MW3M2-091112 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0465	7.3	10	ND	1	09/13/12	09/13/12	E8
Benzene	EPA 8260B	12I0465	0.12	0.50	ND	1	09/13/12	09/13/12	E8
Bromobenzene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
Bromochloromethane	EPA 8260B	12I0465	0.27	0.50	ND	1	09/13/12	09/13/12	E8
Bromodichloromethane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
Bromoform	EPA 8260B	12I0465	0.37	1.0	ND	1	09/13/12	09/13/12	E8
Bromomethane	EPA 8260B	12I0465	0.67	1.0	ND	1	09/13/12	09/13/12	E8
2-Butanone (MEK)	EPA 8260B	12I0465	2.2	5.0	ND	1	09/13/12	09/13/12	E8
tert-Butylbenzene	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
n-Butylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
sec-Butylbenzene	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
Carbon disulfide	EPA 8260B	12I0465	0.86	1.0	ND	1	09/13/12	09/13/12	E8
Carbon tetrachloride	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
Chlorobenzene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
Chloroethane	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
Chloroform	EPA 8260B	12I0465	0.13	0.50	**0.36**	1	09/13/12	09/13/12	E4
Chloromethane	EPA 8260B	12I0465	0.21	1.0	ND	1	09/13/12	09/13/12	E8
4-Chlorotoluene	EPA 8260B	12I0465	0.20	0.50	ND	1	09/13/12	09/13/12	E8
2-Chlorotoluene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0465	0.82	5.0	ND	1	09/13/12	09/13/12	E8
Dibromochloromethane	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0465	0.30	0.50	ND	1	09/13/12	09/13/12	E8
Dibromomethane	EPA 8260B	12I0465	0.26	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloroethane	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichloroethane	EPA 8260B	12I0465	0.31	0.50	ND	1	09/13/12	09/13/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0465	0.29	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloroethene	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
1,2-Dichloropropane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
2,2-Dichloropropane	EPA 8260B	12I0465	0.18	1.0	ND	1	09/13/12	09/13/12	E8
1,3-Dichloropropane	EPA 8260B	12I0465	0.23	0.50	ND	1	09/13/12	09/13/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0465	0.14	0.50	ND	1	09/13/12	09/13/12	E8
1,1-Dichloropropene	EPA 8260B	12I0465	0.20	0.50	ND	1	09/13/12	09/13/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0465	0.47	0.50	ND	1	09/13/12	09/13/12	E8
Ethylbenzene	EPA 8260B	12I0465	0.32	0.50	ND	1	09/13/12	09/13/12	E8
Hexachlorobutadiene	EPA 8260B	12I0465	0.28	1.0	ND	1	09/13/12	09/13/12	V1, E8, M1

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-02 (MW3M2-091112 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0465	1.5	5.0	ND	1	09/13/12	09/13/12	E8
Iodomethane	EPA 8260B	12I0465	0.21	2.5	ND	1	09/13/12	09/13/12	E8
Isopropylbenzene	EPA 8260B	12I0465	0.26	0.50	ND	1	09/13/12	09/13/12	E8
p-Isopropyltoluene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0465	0.22	0.50	ND	1	09/13/12	09/13/12	E8
Methylene Chloride	EPA 8260B	12I0465	0.67	1.0	ND	1	09/13/12	09/13/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0465	1.3	2.5	ND	1	09/13/12	09/13/12	E8
Naphthalene	EPA 8260B	12I0465	0.51	2.5	ND	1	09/13/12	09/13/12	E8
n-Propylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Styrene	EPA 8260B	12I0465	0.17	0.50	ND	1	09/13/12	09/13/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0465	0.35	0.50	ND	1	09/13/12	09/13/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0465	0.33	0.50	ND	1	09/13/12	09/13/12	E8
Tetrachloroethene	EPA 8260B	12I0465	0.18	0.50	ND	1	09/13/12	09/13/12	E8
Toluene	EPA 8260B	12I0465	0.28	0.50	ND	1	09/13/12	09/13/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0465	0.32	1.0	ND	1	09/13/12	09/13/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0465	0.45	1.0	ND	1	09/13/12	09/13/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0465	0.31	0.50	ND	1	09/13/12	09/13/12	E8
Trichloroethene	EPA 8260B	12I0465	0.24	0.50	ND	1	09/13/12	09/13/12	E8
Trichlorofluoromethane	EPA 8260B	12I0465	0.15	0.50	ND	1	09/13/12	09/13/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0465	0.78	2.0	ND	1	09/13/12	09/13/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0465	0.25	0.50	ND	1	09/13/12	09/13/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0465	0.21	0.50	ND	1	09/13/12	09/13/12	E8
Vinyl Acetate	EPA 8260B	12I0465	0.81	2.0	ND	1	09/13/12	09/13/12	E8
Vinyl chloride	EPA 8260B	12I0465	0.18	0.50	ND	1	09/13/12	09/13/12	E8
Xylenes, Total	EPA 8260B	12I0465	0.86	1.0	ND	1	09/13/12	09/13/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*105 %*				
Surrogate: Dibromofluoromethane (70-130%)					*112 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-03 (MW3S-091112 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.53**	1	09/14/12	09/14/12	
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-03 (MW3S-091112 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	**0.95**	1	09/14/12	09/14/12	
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	**1.5**	1	09/14/12	09/14/12	
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*100 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*97 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-04 (MW3M-091112 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.35**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-04 (MW3M-091112 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-05 (MW1S-091112-A - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.55**	1	09/14/12	09/14/12	
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-05 (MW1S-091112-A - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	**0.54**	1	09/14/12	09/14/12	
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*96 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-06 (MW1S-091112-B - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.58**	1	09/14/12	09/14/12	
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-06 (MW1S-091112-B - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	**0.44**	1	09/14/12	09/14/12	E4
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*102 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-07 (MW1M-091112 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.34**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-07 (MW1M-091112 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*103 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-08 (MW1M2-091112 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.24**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0635-08 (MW1M2-091112 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*100 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*98 %*				

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Kylie Emily
Project Manager

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QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Blank Analyzed: 09/13/2012 (12I0465-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Blank Analyzed: 09/13/2012 (12I0465-BLK1)											
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							*V1*
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Blank Analyzed: 09/13/2012 (12I0465-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*25.7*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*26.5*			*ug/l*	*25.0*		*106*	*70-130*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*70-130*			
LCS Analyzed: 09/13/2012 (12I0465-BS1)											
Acetone	34.3	10	7.3	ug/l	25.0		137	38-150			
Benzene	24.0	0.50	0.12	ug/l	25.0		96	70-130			
Bromobenzene	26.5	0.50	0.14	ug/l	25.0		106	70-130			
Bromochloromethane	23.0	0.50	0.27	ug/l	25.0		92	70-130			
Bromodichloromethane	26.2	0.50	0.23	ug/l	25.0		105	70-130			
Bromoform	27.5	1.0	0.37	ug/l	25.0		110	69-129			
Bromomethane	29.0	1.0	0.67	ug/l	25.0		116	57-138			
2-Butanone (MEK)	25.9	5.0	2.2	ug/l	25.0		104	53-150			
tert-Butylbenzene	28.0	0.50	0.25	ug/l	25.0		112	70-130			
n-Butylbenzene	26.2	0.50	0.21	ug/l	25.0		105	70-130			
sec-Butylbenzene	26.6	0.50	0.23	ug/l	25.0		106	70-130			
Carbon disulfide	27.7	1.0	0.86	ug/l	25.0		111	64-145			
Carbon tetrachloride	31.7	0.50	0.15	ug/l	25.0		127	70-143			
Chlorobenzene	24.7	0.50	0.17	ug/l	25.0		99	70-130			
Chloroethane	26.4	0.50	0.25	ug/l	25.0		106	66-131			
Chloroform	23.2	0.50	0.13	ug/l	25.0		93	70-130			
Chloromethane	28.8	1.0	0.21	ug/l	25.0		115	56-129			
4-Chlorotoluene	27.0	0.50	0.20	ug/l	25.0		108	70-130			
2-Chlorotoluene	26.4	0.50	0.17	ug/l	25.0		106	70-130			
1,2-Dibromo-3-chloropropane	29.9	5.0	0.82	ug/l	25.0		120	63-146			
Dibromochloromethane	25.5	0.50	0.22	ug/l	25.0		102	70-130			
1,2-Dibromoethane (EDB)	23.8	0.50	0.30	ug/l	25.0		95	70-130			
Dibromomethane	23.2	0.50	0.26	ug/l	25.0		93	70-130			

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
LCS Analyzed: 09/13/2012 (12I0465-BS1)											
1,2-Dichlorobenzene	25.0	0.50	0.22	ug/l	25.0		100	70-130			
1,4-Dichlorobenzene	24.1	0.50	0.17	ug/l	25.0		96	70-130			
1,3-Dichlorobenzene	25.3	0.50	0.14	ug/l	25.0		101	70-130			
Dichlorodifluoromethane	31.5	0.50	0.15	ug/l	25.0		126	46-144			
1,1-Dichloroethane	23.4	0.50	0.14	ug/l	25.0		93	70-130			
1,2-Dichloroethane	27.4	0.50	0.31	ug/l	25.0		110	66-139			
cis-1,2-Dichloroethene	24.0	0.50	0.21	ug/l	25.0		96	70-130			
trans-1,2-Dichloroethene	23.1	0.50	0.29	ug/l	25.0		93	69-127			
1,1-Dichloroethene	27.7	0.50	0.23	ug/l	25.0		111	63-131			
1,2-Dichloropropane	21.9	0.50	0.23	ug/l	25.0		88	70-130			
2,2-Dichloropropane	29.3	1.0	0.18	ug/l	25.0		117	69-139			
1,3-Dichloropropane	24.0	0.50	0.23	ug/l	25.0		96	70-130			
cis-1,3-Dichloropropene	23.4	0.50	0.14	ug/l	25.0		94	70-130			
1,1-Dichloropropene	21.7	0.50	0.20	ug/l	25.0		87	70-130			
trans-1,3-Dichloropropene	25.7	0.50	0.47	ug/l	25.0		103	70-130			
Ethylbenzene	25.0	0.50	0.32	ug/l	25.0		100	70-130			
Hexachlorobutadiene	34.5	1.0	0.28	ug/l	25.0		138	76-145			*V1*
2-Hexanone	22.8	5.0	1.5	ug/l	25.0		91	55-150			
Iodomethane	30.8	2.5	0.21	ug/l	25.0		123	74-150			
Isopropylbenzene	29.4	0.50	0.26	ug/l	25.0		117	88-141			
p-Isopropyltoluene	26.8	0.50	0.21	ug/l	25.0		107	70-130			
Methyl-tert-butyl Ether (MTBE)	25.0	0.50	0.22	ug/l	25.0		100	70-130			
Methylene Chloride	24.4	1.0	0.67	ug/l	25.0		98	63-128			
4-Methyl-2-pentanone (MIBK)	22.8	2.5	1.3	ug/l	25.0		91	64-142			
Naphthalene	26.7	2.5	0.51	ug/l	25.0		107	78-143			
n-Propylbenzene	26.7	0.50	0.21	ug/l	25.0		107	70-130			
Styrene	24.3	0.50	0.17	ug/l	25.0		97	70-130			
1,1,1,2-Tetrachloroethane	25.2	0.50	0.35	ug/l	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	25.1	0.50	0.33	ug/l	25.0		101	70-130			
Tetrachloroethene	23.4	0.50	0.18	ug/l	25.0		94	70-130			
Toluene	25.7	0.50	0.28	ug/l	25.0		103	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
LCS Analyzed: 09/13/2012 (12I0465-BS1)											
1,2,4-Trichlorobenzene	27.0	1.0	0.32	ug/l	25.0		108	80-137			
1,2,3-Trichlorobenzene	27.7	1.0	0.45	ug/l	25.0		111	79-139			
1,1,1-Trichloroethane	28.5	0.50	0.15	ug/l	25.0		114	71-131			
1,1,2-Trichloroethane	26.2	0.50	0.31	ug/l	25.0		105	70-130			
Trichloroethene	24.5	0.50	0.24	ug/l	25.0		98	70-130			
Trichlorofluoromethane	35.5	0.50	0.15	ug/l	25.0		142	69-150			
1,2,3-Trichloropropane	26.2	2.0	0.78	ug/l	25.0		105	70-130			
1,2,4-Trimethylbenzene	25.9	0.50	0.25	ug/l	25.0		104	70-130			
1,3,5-Trimethylbenzene	27.4	0.50	0.21	ug/l	25.0		110	70-130			
Vinyl Acetate	21.8	2.0	0.81	ug/l	25.0		87	67-148			
Vinyl chloride	27.5	0.50	0.18	ug/l	25.0		110	65-137			
Xylenes, Total	48.7	1.0	0.86	ug/l	50.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	*26.8*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*108*	*70-130*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*70-130*			
LCS Dup Analyzed: 09/13/2012 (12I0465-BSD1)											
Acetone	37.1	10	7.3	ug/l	25.0		148	38-150	8	35	
Benzene	23.7	0.50	0.12	ug/l	25.0		95	70-130	1	20	
Bromobenzene	25.8	0.50	0.14	ug/l	25.0		103	70-130	2	20	
Bromochloromethane	23.9	0.50	0.27	ug/l	25.0		96	70-130	4	20	
Bromodichloromethane	28.0	0.50	0.23	ug/l	25.0		112	70-130	7	20	
Bromoform	30.1	1.0	0.37	ug/l	25.0		120	69-129	9	20	
Bromomethane	29.2	1.0	0.67	ug/l	25.0		117	57-138	0.7	20	
2-Butanone (MEK)	25.0	5.0	2.2	ug/l	25.0		100	53-150	3	35	
tert-Butylbenzene	29.4	0.50	0.25	ug/l	25.0		118	70-130	5	20	
n-Butylbenzene	26.6	0.50	0.21	ug/l	25.0		106	70-130	1	20	
sec-Butylbenzene	28.0	0.50	0.23	ug/l	25.0		112	70-130	5	20	
Carbon disulfide	28.1	1.0	0.86	ug/l	25.0		112	64-145	1	33	
Carbon tetrachloride	30.6	0.50	0.15	ug/l	25.0		123	70-143	3	20	
Chlorobenzene	24.9	0.50	0.17	ug/l	25.0		100	70-130	1	20	
Chloroethane	26.0	0.50	0.25	ug/l	25.0		104	66-131	1	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
LCS Dup Analyzed: 09/13/2012 (12I0465-BSD1)											
Chloroform	23.7	0.50	0.13	ug/l	25.0		95	70-130	2	20	
Chloromethane	28.0	1.0	0.21	ug/l	25.0		112	56-129	3	20	
4-Chlorotoluene	27.4	0.50	0.20	ug/l	25.0		110	70-130	2	20	
2-Chlorotoluene	28.4	0.50	0.17	ug/l	25.0		114	70-130	7	20	
1,2-Dibromo-3-chloropropane	33.0	5.0	0.82	ug/l	25.0		132	63-146	10	22	
Dibromochloromethane	27.2	0.50	0.22	ug/l	25.0		109	70-130	6	20	
1,2-Dibromoethane (EDB)	24.6	0.50	0.30	ug/l	25.0		98	70-130	3	20	
Dibromomethane	24.7	0.50	0.26	ug/l	25.0		99	70-130	6	20	
1,2-Dichlorobenzene	26.2	0.50	0.22	ug/l	25.0		105	70-130	5	20	
1,4-Dichlorobenzene	26.3	0.50	0.17	ug/l	25.0		105	70-130	9	20	
1,3-Dichlorobenzene	26.0	0.50	0.14	ug/l	25.0		104	70-130	2	20	
Dichlorodifluoromethane	31.6	0.50	0.15	ug/l	25.0		126	46-144	0.3	23	
1,1-Dichloroethane	23.0	0.50	0.14	ug/l	25.0		92	70-130	2	20	
1,2-Dichloroethane	28.0	0.50	0.31	ug/l	25.0		112	66-139	2	20	
cis-1,2-Dichloroethene	23.9	0.50	0.21	ug/l	25.0		96	70-130	0.5	20	
trans-1,2-Dichloroethene	24.0	0.50	0.29	ug/l	25.0		96	69-127	4	20	
1,1-Dichloroethene	27.8	0.50	0.23	ug/l	25.0		111	63-131	0.07	22	
1,2-Dichloropropane	22.5	0.50	0.23	ug/l	25.0		90	70-130	3	20	
2,2-Dichloropropane	27.9	1.0	0.18	ug/l	25.0		111	69-139	5	20	
1,3-Dichloropropane	24.2	0.50	0.23	ug/l	25.0		97	70-130	0.9	20	
cis-1,3-Dichloropropene	25.1	0.50	0.14	ug/l	25.0		101	70-130	7	20	
1,1-Dichloropropene	21.6	0.50	0.20	ug/l	25.0		86	70-130	0.4	20	
trans-1,3-Dichloropropene	25.9	0.50	0.47	ug/l	25.0		103	70-130	0.7	20	
Ethylbenzene	25.3	0.50	0.32	ug/l	25.0		101	70-130	1	20	
Hexachlorobutadiene	35.8	1.0	0.28	ug/l	25.0		143	76-145	4	20	*V1*
2-Hexanone	23.9	5.0	1.5	ug/l	25.0		96	55-150	5	35	
Iodomethane	31.4	2.5	0.21	ug/l	25.0		126	74-150	2	20	
Isopropylbenzene	30.5	0.50	0.26	ug/l	25.0		122	88-141	4	20	
p-Isopropyltoluene	28.2	0.50	0.21	ug/l	25.0		113	70-130	5	20	
Methyl-tert-butyl Ether (MTBE)	25.2	0.50	0.22	ug/l	25.0		101	70-130	0.5	20	
Methylene Chloride	24.2	1.0	0.67	ug/l	25.0		97	63-128	0.9	21	

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
LCS Dup Analyzed: 09/13/2012 (12I0465-BSD1)											
4-Methyl-2-pentanone (MIBK)	23.0	2.5	1.3	ug/l	25.0		92	64-142	0.5	25	
Naphthalene	28.4	2.5	0.51	ug/l	25.0		113	78-143	6	20	
n-Propylbenzene	27.5	0.50	0.21	ug/l	25.0		110	70-130	3	20	
Styrene	24.5	0.50	0.17	ug/l	25.0		98	70-130	1	20	
1,1,1,2-Tetrachloroethane	26.2	0.50	0.35	ug/l	25.0		105	70-130	4	20	
1,1,2,2-Tetrachloroethane	26.3	0.50	0.33	ug/l	25.0		105	70-130	5	20	
Tetrachloroethene	24.2	0.50	0.18	ug/l	25.0		97	70-130	3	20	
Toluene	25.4	0.50	0.28	ug/l	25.0		101	70-130	1	20	
1,2,4-Trichlorobenzene	27.9	1.0	0.32	ug/l	25.0		112	80-137	3	20	
1,2,3-Trichlorobenzene	28.4	1.0	0.45	ug/l	25.0		114	79-139	3	20	
1,1,1-Trichloroethane	29.0	0.50	0.15	ug/l	25.0		116	71-131	2	20	
1,1,2-Trichloroethane	26.3	0.50	0.31	ug/l	25.0		105	70-130	0.2	20	
Trichloroethene	26.1	0.50	0.24	ug/l	25.0		105	70-130	6	20	
Trichlorofluoromethane	35.6	0.50	0.15	ug/l	25.0		143	69-150	0.5	22	
1,2,3-Trichloropropane	28.2	2.0	0.78	ug/l	25.0		113	70-130	7	20	
1,2,4-Trimethylbenzene	28.0	0.50	0.25	ug/l	25.0		112	70-130	8	20	
1,3,5-Trimethylbenzene	29.2	0.50	0.21	ug/l	25.0		117	70-130	6	20	
Vinyl Acetate	23.9	2.0	0.81	ug/l	25.0		95	67-148	9	22	
Vinyl chloride	27.3	0.50	0.18	ug/l	25.0		109	65-137	0.9	20	
Xylenes, Total	51.2	1.0	0.86	ug/l	50.0		102	70-130	5	20	
Surrogate: 4-Bromofluorobenzene	*26.6*			*ug/l*	*25.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*70-130*			
Matrix Spike Analyzed: 09/13/2012 (12I0465-MS1)						**Source: PVI0635-02**					
Acetone	18.0	10	7.3	ug/l	25.0	ND	72	29-139			
Benzene	25.7	0.50	0.12	ug/l	25.0	ND	103	68-131			
Bromobenzene	26.7	0.50	0.14	ug/l	25.0	ND	107	70-130			
Bromochloromethane	24.1	0.50	0.27	ug/l	25.0	ND	96	64-132			
Bromodichloromethane	27.9	0.50	0.23	ug/l	25.0	ND	112	63-138			
Bromoform	28.4	1.0	0.37	ug/l	25.0	ND	114	60-128			
Bromomethane	31.6	1.0	0.67	ug/l	25.0	ND	127	47-144			

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Matrix Spike Analyzed: 09/13/2012 (12I0465-MS1)					**Source: PVI0635-02**						
2-Butanone (MEK)	23.8	5.0	2.2	ug/l	25.0	ND	95	31-143			
tert-Butylbenzene	28.4	0.50	0.25	ug/l	25.0	ND	113	74-135			
n-Butylbenzene	25.8	0.50	0.21	ug/l	25.0	ND	103	69-140			
sec-Butylbenzene	27.2	0.50	0.23	ug/l	25.0	ND	109	72-136			
Carbon disulfide	30.0	1.0	0.86	ug/l	25.0	ND	120	45-150			
Carbon tetrachloride	33.2	0.50	0.15	ug/l	25.0	ND	133	65-147			
Chlorobenzene	25.8	0.50	0.17	ug/l	25.0	ND	103	70-130			
Chloroethane	27.8	0.50	0.25	ug/l	25.0	ND	111	57-139			
Chloroform	27.0	0.50	0.13	ug/l	25.0	0.360	107	63-131			
Chloromethane	30.2	1.0	0.21	ug/l	25.0	ND	121	47-134			
4-Chlorotoluene	26.4	0.50	0.20	ug/l	25.0	ND	105	70-130			
2-Chlorotoluene	27.1	0.50	0.17	ug/l	25.0	ND	108	71-131			
1,2-Dibromo-3-chloropropane	35.0	5.0	0.82	ug/l	25.0	ND	140	53-145			
Dibromochloromethane	29.1	0.50	0.22	ug/l	25.0	ND	116	65-134			
1,2-Dibromoethane (EDB)	26.8	0.50	0.30	ug/l	25.0	ND	107	70-130			
Dibromomethane	27.6	0.50	0.26	ug/l	25.0	ND	111	66-136			
1,2-Dichlorobenzene	26.5	0.50	0.22	ug/l	25.0	ND	106	70-130			
1,4-Dichlorobenzene	25.2	0.50	0.17	ug/l	25.0	ND	101	70-130			
1,3-Dichlorobenzene	25.0	0.50	0.14	ug/l	25.0	ND	100	70-130			
Dichlorodifluoromethane	34.7	0.50	0.15	ug/l	25.0	ND	139	40-148			
1,1-Dichloroethane	25.7	0.50	0.14	ug/l	25.0	ND	103	62-130			
1,2-Dichloroethane	31.6	0.50	0.31	ug/l	25.0	ND	126	54-147			
cis-1,2-Dichloroethene	27.6	0.50	0.21	ug/l	25.0	ND	111	65-127			
trans-1,2-Dichloroethene	25.7	0.50	0.29	ug/l	25.0	ND	103	62-131			
1,1-Dichloroethene	30.4	0.50	0.23	ug/l	25.0	ND	122	57-137			
1,2-Dichloropropane	23.2	0.50	0.23	ug/l	25.0	ND	93	68-126			
2,2-Dichloropropane	29.0	1.0	0.18	ug/l	25.0	ND	116	60-146			
1,3-Dichloropropane	24.6	0.50	0.23	ug/l	25.0	ND	98	68-129			
cis-1,3-Dichloropropene	26.6	0.50	0.14	ug/l	25.0	ND	107	63-135			
1,1-Dichloropropene	21.8	0.50	0.20	ug/l	25.0	ND	87	64-134			
trans-1,3-Dichloropropene	28.3	0.50	0.47	ug/l	25.0	ND	113	58-136			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Matrix Spike Analyzed: 09/13/2012 (12I0465-MS1)					**Source: PVI0635-02**						
Ethylbenzene	27.0	0.50	0.32	ug/l	25.0	ND	108	74-134			
Hexachlorobutadiene	35.9	1.0	0.28	ug/l	25.0	ND	144	69-150			*V1*
2-Hexanone	20.6	5.0	1.5	ug/l	25.0	ND	82	40-142			
Iodomethane	33.0	2.5	0.21	ug/l	25.0	ND	132	53-150			
Isopropylbenzene	28.0	0.50	0.26	ug/l	25.0	ND	112	80-146			
p-Isopropyltoluene	27.3	0.50	0.21	ug/l	25.0	ND	109	70-133			
Methyl-tert-butyl Ether (MTBE)	28.2	0.50	0.22	ug/l	25.0	ND	113	67-138			
Methylene Chloride	27.6	1.0	0.67	ug/l	25.0	ND	111	55-133			
4-Methyl-2-pentanone (MIBK)	24.2	2.5	1.3	ug/l	25.0	ND	97	52-143			
Naphthalene	25.8	2.5	0.51	ug/l	25.0	ND	103	67-146			
n-Propylbenzene	25.9	0.50	0.21	ug/l	25.0	ND	104	74-140			
Styrene	24.0	0.50	0.17	ug/l	25.0	ND	96	43-144			
1,1,1,2-Tetrachloroethane	27.4	0.50	0.35	ug/l	25.0	ND	110	70-130			
1,1,2,2-Tetrachloroethane	24.6	0.50	0.33	ug/l	25.0	ND	98	63-137			
Tetrachloroethene	23.6	0.50	0.18	ug/l	25.0	ND	94	67-131			
Toluene	27.0	0.50	0.28	ug/l	25.0	ND	108	65-138			
1,2,4-Trichlorobenzene	26.6	1.0	0.32	ug/l	25.0	ND	106	74-138			
1,2,3-Trichlorobenzene	27.3	1.0	0.45	ug/l	25.0	ND	109	74-139			
1,1,1-Trichloroethane	31.4	0.50	0.15	ug/l	25.0	ND	126	64-138			
1,1,2-Trichloroethane	27.9	0.50	0.31	ug/l	25.0	ND	111	63-132			
Trichloroethene	26.1	0.50	0.24	ug/l	25.0	ND	104	66-132			
Trichlorofluoromethane	37.2	0.50	0.15	ug/l	25.0	ND	149	62-150			
1,2,3-Trichloropropane	29.8	2.0	0.78	ug/l	25.0	ND	119	68-130			
1,2,4-Trimethylbenzene	27.2	0.50	0.25	ug/l	25.0	ND	109	63-135			
1,3,5-Trimethylbenzene	27.2	0.50	0.21	ug/l	25.0	ND	109	66-137			
Vinyl Acetate	23.7	2.0	0.81	ug/l	25.0	ND	95	47-150			
Vinyl chloride	28.9	0.50	0.18	ug/l	25.0	ND	115	55-146			
Xylenes, Total	52.5	1.0	0.86	ug/l	50.0	ND	105	68-131			
Surrogate: 4-Bromofluorobenzene	*26.8*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*27.3*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*25.8*			*ug/l*	*25.0*		*103*	*70-130*			

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Matrix Spike Dup Analyzed: 09/13/2012 (12I0465-MSD1)						**Source: PVI0635-02**					
Acetone	21.6	10	7.3	ug/l	25.0	ND	86	29-139	18	35	
Benzene	24.4	0.50	0.12	ug/l	25.0	ND	98	68-131	5	32	
Bromobenzene	26.7	0.50	0.14	ug/l	25.0	ND	107	70-130	0.07	28	
Bromochloromethane	24.8	0.50	0.27	ug/l	25.0	ND	99	64-132	3	35	
Bromodichloromethane	26.3	0.50	0.23	ug/l	25.0	ND	105	63-138	6	31	
Bromoform	30.1	1.0	0.37	ug/l	25.0	ND	120	60-128	6	31	
Bromomethane	28.6	1.0	0.67	ug/l	25.0	ND	114	47-144	10	35	
2-Butanone (MEK)	21.6	5.0	2.2	ug/l	25.0	ND	86	31-143	10	35	
tert-Butylbenzene	29.8	0.50	0.25	ug/l	25.0	ND	119	74-135	5	32	
n-Butylbenzene	26.0	0.50	0.21	ug/l	25.0	ND	104	69-140	0.6	32	
sec-Butylbenzene	27.9	0.50	0.23	ug/l	25.0	ND	112	72-136	3	33	
Carbon disulfide	30.6	1.0	0.86	ug/l	25.0	ND	122	45-150	2	35	
Carbon tetrachloride	31.1	0.50	0.15	ug/l	25.0	ND	125	65-147	6	35	
Chlorobenzene	25.6	0.50	0.17	ug/l	25.0	ND	102	70-130	0.9	30	
Chloroethane	27.4	0.50	0.25	ug/l	25.0	ND	109	57-139	2	35	
Chloroform	25.4	0.50	0.13	ug/l	25.0	0.360	100	63-131	6	33	
Chloromethane	28.8	1.0	0.21	ug/l	25.0	ND	115	47-134	5	35	
4-Chlorotoluene	27.4	0.50	0.20	ug/l	25.0	ND	110	70-130	4	28	
2-Chlorotoluene	28.0	0.50	0.17	ug/l	25.0	ND	112	71-131	3	29	
1,2-Dibromo-3-chloropropane	35.3	5.0	0.82	ug/l	25.0	ND	141	53-145	0.9	35	
Dibromochloromethane	27.3	0.50	0.22	ug/l	25.0	ND	109	65-134	6	33	
1,2-Dibromoethane (EDB)	25.8	0.50	0.30	ug/l	25.0	ND	103	70-130	4	33	
Dibromomethane	25.4	0.50	0.26	ug/l	25.0	ND	102	66-136	9	35	
1,2-Dichlorobenzene	26.7	0.50	0.22	ug/l	25.0	ND	107	70-130	1	27	
1,4-Dichlorobenzene	24.9	0.50	0.17	ug/l	25.0	ND	100	70-130	1	26	
1,3-Dichlorobenzene	26.7	0.50	0.14	ug/l	25.0	ND	107	70-130	6	28	
Dichlorodifluoromethane	33.0	0.50	0.15	ug/l	25.0	ND	132	40-148	5	35	
1,1-Dichloroethane	24.0	0.50	0.14	ug/l	25.0	ND	96	62-130	7	34	
1,2-Dichloroethane	28.7	0.50	0.31	ug/l	25.0	ND	115	54-147	10	35	
cis-1,2-Dichloroethene	24.7	0.50	0.21	ug/l	25.0	ND	99	65-127	11	34	
trans-1,2-Dichloroethene	24.7	0.50	0.29	ug/l	25.0	ND	99	62-131	4	35	

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Matrix Spike Dup Analyzed: 09/13/2012 (12I0465-MSD1)					**Source: PVI0635-02**						
1,1-Dichloroethene	29.0	0.50	0.23	ug/l	25.0	ND	116	57-137	5	35	
1,2-Dichloropropane	21.4	0.50	0.23	ug/l	25.0	ND	86	68-126	8	32	
2,2-Dichloropropane	28.0	1.0	0.18	ug/l	25.0	ND	112	60-146	3	35	
1,3-Dichloropropane	24.6	0.50	0.23	ug/l	25.0	ND	99	68-129	0.04	33	
cis-1,3-Dichloropropene	24.4	0.50	0.14	ug/l	25.0	ND	98	63-135	9	35	
1,1-Dichloropropene	22.9	0.50	0.20	ug/l	25.0	ND	92	64-134	5	34	
trans-1,3-Dichloropropene	25.5	0.50	0.47	ug/l	25.0	ND	102	58-136	10	35	
Ethylbenzene	27.0	0.50	0.32	ug/l	25.0	ND	108	74-134	0.3	32	
Hexachlorobutadiene	39.0	1.0	0.28	ug/l	25.0	ND	156	69-150	8	32	*V1, M1*
2-Hexanone	20.4	5.0	1.5	ug/l	25.0	ND	82	40-142	0.9	35	
Iodomethane	32.5	2.5	0.21	ug/l	25.0	ND	130	53-150	1	35	
Isopropylbenzene	30.0	0.50	0.26	ug/l	25.0	ND	120	80-146	7	32	
p-Isopropyltoluene	27.6	0.50	0.21	ug/l	25.0	ND	110	70-133	1	32	
Methyl-tert-butyl Ether (MTBE)	26.9	0.50	0.22	ug/l	25.0	ND	107	67-138	5	21	
Methylene Chloride	27.3	1.0	0.67	ug/l	25.0	ND	109	55-133	1	35	
4-Methyl-2-pentanone (MIBK)	22.0	2.5	1.3	ug/l	25.0	ND	88	52-143	9	35	
Naphthalene	28.5	2.5	0.51	ug/l	25.0	ND	114	67-146	10	29	
n-Propylbenzene	28.0	0.50	0.21	ug/l	25.0	ND	112	74-140	7	32	
Styrene	26.6	0.50	0.17	ug/l	25.0	ND	106	43-144	10	35	
1,1,1,2-Tetrachloroethane	28.0	0.50	0.35	ug/l	25.0	ND	112	70-130	2	30	
1,1,2,2-Tetrachloroethane	27.6	0.50	0.33	ug/l	25.0	ND	110	63-137	11	32	
Tetrachloroethene	24.2	0.50	0.18	ug/l	25.0	ND	97	67-131	2	31	
Toluene	25.7	0.50	0.28	ug/l	25.0	ND	103	65-138	5	33	
1,2,4-Trichlorobenzene	26.0	1.0	0.32	ug/l	25.0	ND	104	74-138	2	26	
1,2,3-Trichlorobenzene	28.8	1.0	0.45	ug/l	25.0	ND	115	74-139	6	26	
1,1,1-Trichloroethane	31.2	0.50	0.15	ug/l	25.0	ND	125	64-138	0.7	35	
1,1,2-Trichloroethane	25.9	0.50	0.31	ug/l	25.0	ND	104	63-132	7	35	
Trichloroethene	25.2	0.50	0.24	ug/l	25.0	ND	101	66-132	4	29	
Trichlorofluoromethane	37.6	0.50	0.15	ug/l	25.0	ND	150	62-150	1	35	
1,2,3-Trichloropropane	29.8	2.0	0.78	ug/l	25.0	ND	119	68-130	0	32	
1,2,4-Trimethylbenzene	27.8	0.50	0.25	ug/l	25.0	ND	111	63-135	2	31	

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0465 Extracted: 09/13/12											
Matrix Spike Dup Analyzed: 09/13/2012 (12I0465-MSD1)					**Source: PVI0635-02**						
1,3,5-Trimethylbenzene	28.6	0.50	0.21	ug/l	25.0	ND	114	66-137	5	30	
Vinyl Acetate	21.8	2.0	0.81	ug/l	25.0	ND	87	47-150	8	35	
Vinyl chloride	29.4	0.50	0.18	ug/l	25.0	ND	118	55-146	2	35	
Xylenes, Total	54.0	1.0	0.86	ug/l	50.0	ND	108	68-131	3	31	
Surrogate: 4-Bromofluorobenzene	*27.2*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*25.9*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*70-130*			
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							*V1*
Dibromochloromethane	ND	0.50	0.22	ug/l							

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*70-130*			
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
Acetone	31.7	10	7.3	ug/l	25.0		127	38-150			
Benzene	22.0	0.50	0.12	ug/l	25.0		88	70-130			
Bromobenzene	23.3	0.50	0.14	ug/l	25.0		93	70-130			
Bromochloromethane	22.1	0.50	0.27	ug/l	25.0		88	70-130			
Bromodichloromethane	25.2	0.50	0.23	ug/l	25.0		101	70-130			
Bromoform	25.5	1.0	0.37	ug/l	25.0		102	69-129			
Bromomethane	27.3	1.0	0.67	ug/l	25.0		109	57-138			
2-Butanone (MEK)	28.5	5.0	2.2	ug/l	25.0		114	53-150			
tert-Butylbenzene	26.6	0.50	0.25	ug/l	25.0		106	70-130			
n-Butylbenzene	24.6	0.50	0.21	ug/l	25.0		98	70-130			
sec-Butylbenzene	24.7	0.50	0.23	ug/l	25.0		99	70-130			
Carbon disulfide	26.3	1.0	0.86	ug/l	25.0		105	64-145			
Carbon tetrachloride	29.1	0.50	0.15	ug/l	25.0		116	70-143			

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
Chlorobenzene	23.2	0.50	0.17	ug/l	25.0		93	70-130			
Chloroethane	24.8	0.50	0.25	ug/l	25.0		99	66-131			
Chloroform	23.2	0.50	0.13	ug/l	25.0		93	70-130			
Chloromethane	27.8	1.0	0.21	ug/l	25.0		111	56-129			
4-Chlorotoluene	25.0	0.50	0.20	ug/l	25.0		100	70-130			
2-Chlorotoluene	25.0	0.50	0.17	ug/l	25.0		100	70-130			
1,2-Dibromo-3-chloropropane	26.2	5.0	0.82	ug/l	25.0		105	63-146			*V1*
Dibromochloromethane	24.2	0.50	0.22	ug/l	25.0		97	70-130			
1,2-Dibromoethane (EDB)	22.2	0.50	0.30	ug/l	25.0		89	70-130			
Dibromomethane	22.8	0.50	0.26	ug/l	25.0		91	70-130			
1,2-Dichlorobenzene	23.9	0.50	0.22	ug/l	25.0		96	70-130			
1,4-Dichlorobenzene	23.6	0.50	0.17	ug/l	25.0		94	70-130			
1,3-Dichlorobenzene	24.6	0.50	0.14	ug/l	25.0		98	70-130			
Dichlorodifluoromethane	29.9	0.50	0.15	ug/l	25.0		120	46-144			
1,1-Dichloroethane	21.8	0.50	0.14	ug/l	25.0		87	70-130			
1,2-Dichloroethane	26.9	0.50	0.31	ug/l	25.0		108	66-139			
cis-1,2-Dichloroethene	23.4	0.50	0.21	ug/l	25.0		93	70-130			
trans-1,2-Dichloroethene	22.1	0.50	0.29	ug/l	25.0		89	69-127			
1,1-Dichloroethene	25.8	0.50	0.23	ug/l	25.0		103	63-131			
1,2-Dichloropropane	20.6	0.50	0.23	ug/l	25.0		82	70-130			
2,2-Dichloropropane	27.5	1.0	0.18	ug/l	25.0		110	69-139			
1,3-Dichloropropane	21.3	0.50	0.23	ug/l	25.0		85	70-130			
cis-1,3-Dichloropropene	24.0	0.50	0.14	ug/l	25.0		96	70-130			
1,1-Dichloropropene	19.9	0.50	0.20	ug/l	25.0		80	70-130			
trans-1,3-Dichloropropene	24.3	0.50	0.47	ug/l	25.0		97	70-130			
Ethylbenzene	23.4	0.50	0.32	ug/l	25.0		94	70-130			
Hexachlorobutadiene	33.9	1.0	0.28	ug/l	25.0		136	76-145			
2-Hexanone	25.7	5.0	1.5	ug/l	25.0		103	55-150			
Iodomethane	28.6	2.5	0.21	ug/l	25.0		114	74-150			
Isopropylbenzene	26.8	0.50	0.26	ug/l	25.0		107	88-141			
p-Isopropyltoluene	25.5	0.50	0.21	ug/l	25.0		102	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	0.22	ug/l	25.0		97	70-130			
Methylene Chloride	22.9	1.0	0.67	ug/l	25.0		91	63-128			
4-Methyl-2-pentanone (MIBK)	22.7	2.5	1.3	ug/l	25.0		91	64-142			
Naphthalene	26.0	2.5	0.51	ug/l	25.0		104	78-143			
n-Propylbenzene	24.6	0.50	0.21	ug/l	25.0		98	70-130			
Styrene	23.4	0.50	0.17	ug/l	25.0		94	70-130			
1,1,1,2-Tetrachloroethane	24.1	0.50	0.35	ug/l	25.0		96	70-130			
1,1,2,2-Tetrachloroethane	22.1	0.50	0.33	ug/l	25.0		88	70-130			
Tetrachloroethene	21.2	0.50	0.18	ug/l	25.0		85	70-130			
Toluene	23.4	0.50	0.28	ug/l	25.0		94	70-130			
1,2,4-Trichlorobenzene	25.5	1.0	0.32	ug/l	25.0		102	80-137			
1,2,3-Trichlorobenzene	25.8	1.0	0.45	ug/l	25.0		103	79-139			
1,1,1-Trichloroethane	27.4	0.50	0.15	ug/l	25.0		110	71-131			
1,1,2-Trichloroethane	24.2	0.50	0.31	ug/l	25.0		97	70-130			
Trichloroethene	23.2	0.50	0.24	ug/l	25.0		93	70-130			
Trichlorofluoromethane	34.4	0.50	0.15	ug/l	25.0		138	69-150			
1,2,3-Trichloropropane	24.0	2.0	0.78	ug/l	25.0		96	70-130			
1,2,4-Trimethylbenzene	25.3	0.50	0.25	ug/l	25.0		101	70-130			
1,3,5-Trimethylbenzene	26.1	0.50	0.21	ug/l	25.0		105	70-130			
Vinyl Acetate	23.9	2.0	0.81	ug/l	25.0		95	67-148			
Vinyl chloride	26.1	0.50	0.18	ug/l	25.0		104	65-137			
Xylenes, Total	48.1	1.0	0.86	ug/l	50.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.8*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*70-130*			
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
Acetone	31.4	10	7.3	ug/l	25.0		125	38-150	1	35	
Benzene	21.7	0.50	0.12	ug/l	25.0		87	70-130	1	20	
Bromobenzene	23.5	0.50	0.14	ug/l	25.0		94	70-130	0.9	20	
Bromochloromethane	25.2	0.50	0.27	ug/l	25.0		101	70-130	13	20	
Bromodichloromethane	24.7	0.50	0.23	ug/l	25.0		99	70-130	2	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
Bromoform	27.0	1.0	0.37	ug/l	25.0		108	69-129	6	20	
Bromomethane	29.5	1.0	0.67	ug/l	25.0		118	57-138	8	20	
2-Butanone (MEK)	27.1	5.0	2.2	ug/l	25.0		108	53-150	5	35	
tert-Butylbenzene	25.4	0.50	0.25	ug/l	25.0		102	70-130	5	20	
n-Butylbenzene	23.9	0.50	0.21	ug/l	25.0		95	70-130	3	20	
sec-Butylbenzene	25.0	0.50	0.23	ug/l	25.0		100	70-130	1	20	
Carbon disulfide	27.4	1.0	0.86	ug/l	25.0		109	64-145	4	33	
Carbon tetrachloride	28.6	0.50	0.15	ug/l	25.0		114	70-143	2	20	
Chlorobenzene	23.3	0.50	0.17	ug/l	25.0		93	70-130	0.7	20	
Chloroethane	24.3	0.50	0.25	ug/l	25.0		97	66-131	2	20	
Chloroform	24.0	0.50	0.13	ug/l	25.0		96	70-130	4	20	
Chloromethane	28.4	1.0	0.21	ug/l	25.0		114	56-129	2	20	
4-Chlorotoluene	24.4	0.50	0.20	ug/l	25.0		98	70-130	2	20	
2-Chlorotoluene	24.6	0.50	0.17	ug/l	25.0		98	70-130	2	20	
1,2-Dibromo-3-chloropropane	29.2	5.0	0.82	ug/l	25.0		117	63-146	11	22	*V1*
Dibromochloromethane	27.1	0.50	0.22	ug/l	25.0		108	70-130	11	20	
1,2-Dibromoethane (EDB)	24.7	0.50	0.30	ug/l	25.0		99	70-130	11	20	
Dibromomethane	24.0	0.50	0.26	ug/l	25.0		96	70-130	5	20	
1,2-Dichlorobenzene	24.0	0.50	0.22	ug/l	25.0		96	70-130	0.4	20	
1,4-Dichlorobenzene	23.1	0.50	0.17	ug/l	25.0		92	70-130	2	20	
1,3-Dichlorobenzene	23.4	0.50	0.14	ug/l	25.0		94	70-130	5	20	
Dichlorodifluoromethane	31.3	0.50	0.15	ug/l	25.0		125	46-144	5	23	
1,1-Dichloroethane	23.0	0.50	0.14	ug/l	25.0		92	70-130	5	20	
1,2-Dichloroethane	27.8	0.50	0.31	ug/l	25.0		111	66-139	3	20	
cis-1,2-Dichloroethene	24.8	0.50	0.21	ug/l	25.0		99	70-130	6	20	
trans-1,2-Dichloroethene	22.7	0.50	0.29	ug/l	25.0		91	69-127	3	20	
1,1-Dichloroethene	27.1	0.50	0.23	ug/l	25.0		109	63-131	5	22	
1,2-Dichloropropane	21.1	0.50	0.23	ug/l	25.0		84	70-130	2	20	
2,2-Dichloropropane	28.0	1.0	0.18	ug/l	25.0		112	69-139	2	20	
1,3-Dichloropropane	21.3	0.50	0.23	ug/l	25.0		85	70-130	0.2	20	
cis-1,3-Dichloropropene	23.6	0.50	0.14	ug/l	25.0		94	70-130	2	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
1,1-Dichloropropene	20.1	0.50	0.20	ug/l	25.0		80	70-130	0.8	20	
trans-1,3-Dichloropropene	24.3	0.50	0.47	ug/l	25.0		97	70-130	0.2	20	
Ethylbenzene	23.7	0.50	0.32	ug/l	25.0		95	70-130	1	20	
Hexachlorobutadiene	34.2	1.0	0.28	ug/l	25.0		137	76-145	0.9	20	
2-Hexanone	27.1	5.0	1.5	ug/l	25.0		108	55-150	5	35	
Iodomethane	30.2	2.5	0.21	ug/l	25.0		121	74-150	5	20	
Isopropylbenzene	26.8	0.50	0.26	ug/l	25.0		107	88-141	0.07	20	
p-Isopropyltoluene	25.4	0.50	0.21	ug/l	25.0		102	70-130	0.4	20	
Methyl-tert-butyl Ether (MTBE)	26.0	0.50	0.22	ug/l	25.0		104	70-130	7	20	
Methylene Chloride	23.7	1.0	0.67	ug/l	25.0		95	63-128	4	21	
4-Methyl-2-pentanone (MIBK)	23.6	2.5	1.3	ug/l	25.0		94	64-142	4	25	
Naphthalene	26.7	2.5	0.51	ug/l	25.0		107	78-143	2	20	
n-Propylbenzene	24.5	0.50	0.21	ug/l	25.0		98	70-130	0.2	20	
Styrene	24.1	0.50	0.17	ug/l	25.0		96	70-130	3	20	
1,1,1,2-Tetrachloroethane	25.0	0.50	0.35	ug/l	25.0		100	70-130	4	20	
1,1,2,2-Tetrachloroethane	23.5	0.50	0.33	ug/l	25.0		94	70-130	6	20	
Tetrachloroethene	21.5	0.50	0.18	ug/l	25.0		86	70-130	1	20	
Toluene	23.3	0.50	0.28	ug/l	25.0		93	70-130	0.4	20	
1,2,4-Trichlorobenzene	25.1	1.0	0.32	ug/l	25.0		101	80-137	1	20	
1,2,3-Trichlorobenzene	25.7	1.0	0.45	ug/l	25.0		103	79-139	0.5	20	
1,1,1-Trichloroethane	28.2	0.50	0.15	ug/l	25.0		113	71-131	3	20	
1,1,2-Trichloroethane	25.3	0.50	0.31	ug/l	25.0		101	70-130	4	20	
Trichloroethene	23.5	0.50	0.24	ug/l	25.0		94	70-130	1	20	
Trichlorofluoromethane	35.7	0.50	0.15	ug/l	25.0		143	69-150	4	22	
1,2,3-Trichloropropane	28.3	2.0	0.78	ug/l	25.0		113	70-130	16	20	
1,2,4-Trimethylbenzene	25.2	0.50	0.25	ug/l	25.0		101	70-130	0.2	20	
1,3,5-Trimethylbenzene	25.7	0.50	0.21	ug/l	25.0		103	70-130	2	20	
Vinyl Acetate	24.3	2.0	0.81	ug/l	25.0		97	67-148	2	22	
Vinyl chloride	28.1	0.50	0.18	ug/l	25.0		112	65-137	7	20	
Xylenes, Total	48.9	1.0	0.86	ug/l	50.0		98	70-130	1	20	
Surrogate: 4-Bromofluorobenzene	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
Surrogate: Dibromofluoromethane	*26.9*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*70-130*			
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)						**Source: PVI0635-03**					
Acetone	16.7	10	7.3	ug/l	25.0	ND	67	29-139			
Benzene	22.0	0.50	0.12	ug/l	25.0	ND	88	68-131			
Bromobenzene	24.3	0.50	0.14	ug/l	25.0	ND	97	70-130			
Bromochloromethane	23.8	0.50	0.27	ug/l	25.0	ND	95	64-132			
Bromodichloromethane	24.1	0.50	0.23	ug/l	25.0	ND	97	63-138			
Bromoform	26.4	1.0	0.37	ug/l	25.0	ND	106	60-128			
Bromomethane	28.1	1.0	0.67	ug/l	25.0	ND	112	47-144			
2-Butanone (MEK)	21.5	5.0	2.2	ug/l	25.0	ND	86	31-143			
tert-Butylbenzene	26.3	0.50	0.25	ug/l	25.0	ND	105	74-135			
n-Butylbenzene	23.2	0.50	0.21	ug/l	25.0	ND	93	69-140			
sec-Butylbenzene	25.1	0.50	0.23	ug/l	25.0	ND	100	72-136			
Carbon disulfide	27.4	1.0	0.86	ug/l	25.0	ND	109	45-150			
Carbon tetrachloride	28.3	0.50	0.15	ug/l	25.0	ND	113	65-147			
Chlorobenzene	24.5	0.50	0.17	ug/l	25.0	ND	98	70-130			
Chloroethane	25.5	0.50	0.25	ug/l	25.0	ND	102	57-139			
Chloroform	24.0	0.50	0.13	ug/l	25.0	0.530	94	63-131			
Chloromethane	28.1	1.0	0.21	ug/l	25.0	ND	112	47-134			
4-Chlorotoluene	24.9	0.50	0.20	ug/l	25.0	ND	100	70-130			
2-Chlorotoluene	25.0	0.50	0.17	ug/l	25.0	ND	100	71-131			
1,2-Dibromo-3-chloropropane	27.1	5.0	0.82	ug/l	25.0	ND	109	53-145			*V1*
Dibromochloromethane	24.9	0.50	0.22	ug/l	25.0	ND	100	65-134			
1,2-Dibromoethane (EDB)	23.1	0.50	0.30	ug/l	25.0	ND	92	70-130			
Dibromomethane	23.7	0.50	0.26	ug/l	25.0	ND	95	66-136			
1,2-Dichlorobenzene	24.0	0.50	0.22	ug/l	25.0	ND	96	70-130			
1,4-Dichlorobenzene	23.0	0.50	0.17	ug/l	25.0	ND	92	70-130			
1,3-Dichlorobenzene	23.4	0.50	0.14	ug/l	25.0	ND	94	70-130			
Dichlorodifluoromethane	30.3	0.50	0.15	ug/l	25.0	ND	121	40-148			
1,1-Dichloroethane	23.0	0.50	0.14	ug/l	25.0	ND	92	62-130			

TestAmerica Phoenix

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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)						**Source: PVI0635-03**					
1,2-Dichloroethane	26.9	0.50	0.31	ug/l	25.0	ND	108	54-147			
cis-1,2-Dichloroethene	23.6	0.50	0.21	ug/l	25.0	ND	94	65-127			
trans-1,2-Dichloroethene	22.6	0.50	0.29	ug/l	25.0	ND	91	62-131			
1,1-Dichloroethene	27.0	0.50	0.23	ug/l	25.0	ND	108	57-137			
1,2-Dichloropropane	20.4	0.50	0.23	ug/l	25.0	ND	82	68-126			
2,2-Dichloropropane	28.4	1.0	0.18	ug/l	25.0	ND	114	60-146			
1,3-Dichloropropane	22.0	0.50	0.23	ug/l	25.0	ND	88	68-129			
cis-1,3-Dichloropropene	23.0	0.50	0.14	ug/l	25.0	ND	92	63-135			
1,1-Dichloropropene	19.7	0.50	0.20	ug/l	25.0	ND	79	64-134			
trans-1,3-Dichloropropene	24.0	0.50	0.47	ug/l	25.0	ND	96	58-136			
Ethylbenzene	24.2	0.50	0.32	ug/l	25.0	ND	97	74-134			
Hexachlorobutadiene	33.1	1.0	0.28	ug/l	25.0	ND	132	69-150			
2-Hexanone	17.3	5.0	1.5	ug/l	25.0	ND	69	40-142			
Iodomethane	31.0	2.5	0.21	ug/l	25.0	ND	124	53-150			
Isopropylbenzene	27.1	0.50	0.26	ug/l	25.0	ND	108	80-146			
p-Isopropyltoluene	25.2	0.50	0.21	ug/l	25.0	ND	101	70-133			
Methyl-tert-butyl Ether (MTBE)	24.6	0.50	0.22	ug/l	25.0	ND	99	67-138			
Methylene Chloride	23.1	1.0	0.67	ug/l	25.0	ND	92	55-133			
4-Methyl-2-pentanone (MIBK)	20.2	2.5	1.3	ug/l	25.0	ND	81	52-143			
Naphthalene	25.1	2.5	0.51	ug/l	25.0	ND	101	67-146			
n-Propylbenzene	24.4	0.50	0.21	ug/l	25.0	ND	98	74-140			
Styrene	24.5	0.50	0.17	ug/l	25.0	ND	98	43-144			
1,1,1,2-Tetrachloroethane	25.9	0.50	0.35	ug/l	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	21.8	0.50	0.33	ug/l	25.0	ND	87	63-137			
Tetrachloroethene	22.6	0.50	0.18	ug/l	25.0	0.950	87	67-131			
Toluene	23.0	0.50	0.28	ug/l	25.0	ND	92	65-138			
1,2,4-Trichlorobenzene	25.5	1.0	0.32	ug/l	25.0	ND	102	74-138			
1,2,3-Trichlorobenzene	25.3	1.0	0.45	ug/l	25.0	ND	101	74-139			
1,1,1-Trichloroethane	28.5	0.50	0.15	ug/l	25.0	ND	114	64-138			
1,1,2-Trichloroethane	23.8	0.50	0.31	ug/l	25.0	ND	95	63-132			
Trichloroethene	24.2	0.50	0.24	ug/l	25.0	1.46	91	66-132			

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)						**Source: PVI0635-03**					
Trichlorofluoromethane	35.0	0.50	0.15	ug/l	25.0	ND	140	62-150			
1,2,3-Trichloropropane	23.4	2.0	0.78	ug/l	25.0	ND	94	68-130			
1,2,4-Trimethylbenzene	25.3	0.50	0.25	ug/l	25.0	ND	101	63-135			
1,3,5-Trimethylbenzene	26.0	0.50	0.21	ug/l	25.0	ND	104	66-137			
Vinyl Acetate	24.6	2.0	0.81	ug/l	25.0	ND	98	47-150			
Vinyl chloride	27.0	0.50	0.18	ug/l	25.0	ND	108	55-146			
Xylenes, Total	48.6	1.0	0.86	ug/l	50.0	ND	97	68-131			
Surrogate: 4-Bromofluorobenzene	*25.9*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*108*	*70-130*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*70-130*			
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
Acetone	17.8	10	7.3	ug/l	25.0	ND	71	29-139	6	35	
Benzene	22.2	0.50	0.12	ug/l	25.0	ND	89	68-131	0.5	32	
Bromobenzene	24.8	0.50	0.14	ug/l	25.0	ND	99	70-130	2	28	
Bromochloromethane	22.9	0.50	0.27	ug/l	25.0	ND	92	64-132	4	35	
Bromodichloromethane	25.6	0.50	0.23	ug/l	25.0	ND	102	63-138	6	31	
Bromoform	25.1	1.0	0.37	ug/l	25.0	ND	101	60-128	5	31	
Bromomethane	27.8	1.0	0.67	ug/l	25.0	ND	111	47-144	1	35	
2-Butanone (MEK)	17.7	5.0	2.2	ug/l	25.0	ND	71	31-143	19	35	
tert-Butylbenzene	25.9	0.50	0.25	ug/l	25.0	ND	104	74-135	2	32	
n-Butylbenzene	23.3	0.50	0.21	ug/l	25.0	ND	93	69-140	0.09	32	
sec-Butylbenzene	24.1	0.50	0.23	ug/l	25.0	ND	96	72-136	4	33	
Carbon disulfide	26.8	1.0	0.86	ug/l	25.0	ND	107	45-150	2	35	
Carbon tetrachloride	28.8	0.50	0.15	ug/l	25.0	ND	115	65-147	2	35	
Chlorobenzene	23.2	0.50	0.17	ug/l	25.0	ND	93	70-130	5	30	
Chloroethane	25.3	0.50	0.25	ug/l	25.0	ND	101	57-139	0.9	35	
Chloroform	23.2	0.50	0.13	ug/l	25.0	0.530	91	63-131	4	33	
Chloromethane	26.1	1.0	0.21	ug/l	25.0	ND	104	47-134	7	35	
4-Chlorotoluene	24.4	0.50	0.20	ug/l	25.0	ND	98	70-130	2	28	
2-Chlorotoluene	25.3	0.50	0.17	ug/l	25.0	ND	101	71-131	1	29	
1,2-Dibromo-3-chloropropane	26.2	5.0	0.82	ug/l	25.0	ND	105	53-145	3	35	*V1*

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
Dibromochloromethane	25.6	0.50	0.22	ug/l	25.0	ND	102	65-134	3	33	
1,2-Dibromoethane (EDB)	22.0	0.50	0.30	ug/l	25.0	ND	88	70-130	5	33	
Dibromomethane	22.8	0.50	0.26	ug/l	25.0	ND	91	66-136	4	35	
1,2-Dichlorobenzene	24.4	0.50	0.22	ug/l	25.0	ND	98	70-130	2	27	
1,4-Dichlorobenzene	23.7	0.50	0.17	ug/l	25.0	ND	95	70-130	3	26	
1,3-Dichlorobenzene	23.9	0.50	0.14	ug/l	25.0	ND	95	70-130	2	28	
Dichlorodifluoromethane	28.5	0.50	0.15	ug/l	25.0	ND	114	40-148	6	35	
1,1-Dichloroethane	21.9	0.50	0.14	ug/l	25.0	ND	88	62-130	5	34	
1,2-Dichloroethane	25.6	0.50	0.31	ug/l	25.0	ND	102	54-147	5	35	
cis-1,2-Dichloroethene	22.5	0.50	0.21	ug/l	25.0	ND	90	65-127	5	34	
trans-1,2-Dichloroethene	22.5	0.50	0.29	ug/l	25.0	ND	90	62-131	0.5	35	
1,1-Dichloroethene	26.6	0.50	0.23	ug/l	25.0	ND	106	57-137	2	35	
1,2-Dichloropropane	21.6	0.50	0.23	ug/l	25.0	ND	87	68-126	6	32	
2,2-Dichloropropane	26.6	1.0	0.18	ug/l	25.0	ND	106	60-146	7	35	
1,3-Dichloropropane	21.2	0.50	0.23	ug/l	25.0	ND	85	68-129	4	33	
cis-1,3-Dichloropropene	23.4	0.50	0.14	ug/l	25.0	ND	93	63-135	1	35	
1,1-Dichloropropene	19.0	0.50	0.20	ug/l	25.0	ND	76	64-134	4	34	
trans-1,3-Dichloropropene	24.7	0.50	0.47	ug/l	25.0	ND	99	58-136	3	35	
Ethylbenzene	23.6	0.50	0.32	ug/l	25.0	ND	94	74-134	3	32	
Hexachlorobutadiene	34.2	1.0	0.28	ug/l	25.0	ND	137	69-150	3	32	
2-Hexanone	15.8	5.0	1.5	ug/l	25.0	ND	63	40-142	9	35	
Iodomethane	30.0	2.5	0.21	ug/l	25.0	ND	120	53-150	3	35	
Isopropylbenzene	26.4	0.50	0.26	ug/l	25.0	ND	106	80-146	2	32	
p-Isopropyltoluene	25.7	0.50	0.21	ug/l	25.0	ND	103	70-133	2	32	
Methyl-tert-butyl Ether (MTBE)	23.8	0.50	0.22	ug/l	25.0	ND	95	67-138	4	21	
Methylene Chloride	24.5	1.0	0.67	ug/l	25.0	ND	98	55-133	6	35	
4-Methyl-2-pentanone (MIBK)	21.0	2.5	1.3	ug/l	25.0	ND	84	52-143	4	35	
Naphthalene	24.5	2.5	0.51	ug/l	25.0	ND	98	67-146	3	29	
n-Propylbenzene	24.1	0.50	0.21	ug/l	25.0	ND	96	74-140	1	32	
Styrene	23.9	0.50	0.17	ug/l	25.0	ND	95	43-144	3	35	
1,1,1,2-Tetrachloroethane	24.6	0.50	0.35	ug/l	25.0	ND	98	70-130	5	30	

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
1,1,2,2-Tetrachloroethane	21.5	0.50	0.33	ug/l	25.0	ND	86	63-137	1	32	
Tetrachloroethene	23.2	0.50	0.18	ug/l	25.0	0.950	89	67-131	3	31	
Toluene	23.5	0.50	0.28	ug/l	25.0	ND	94	65-138	2	33	
1,2,4-Trichlorobenzene	26.8	1.0	0.32	ug/l	25.0	ND	107	74-138	5	26	
1,2,3-Trichlorobenzene	26.6	1.0	0.45	ug/l	25.0	ND	106	74-139	5	26	
1,1,1-Trichloroethane	27.6	0.50	0.15	ug/l	25.0	ND	110	64-138	3	35	
1,1,2-Trichloroethane	23.2	0.50	0.31	ug/l	25.0	ND	93	63-132	3	35	
Trichloroethene	24.5	0.50	0.24	ug/l	25.0	1.46	92	66-132	1	29	
Trichlorofluoromethane	33.8	0.50	0.15	ug/l	25.0	ND	135	62-150	3	35	
1,2,3-Trichloropropane	24.9	2.0	0.78	ug/l	25.0	ND	100	68-130	6	32	
1,2,4-Trimethylbenzene	25.8	0.50	0.25	ug/l	25.0	ND	103	63-135	2	31	
1,3,5-Trimethylbenzene	26.1	0.50	0.21	ug/l	25.0	ND	104	66-137	0.6	30	
Vinyl Acetate	22.1	2.0	0.81	ug/l	25.0	ND	88	47-150	11	35	
Vinyl chloride	25.4	0.50	0.18	ug/l	25.0	ND	102	55-146	6	35	
Xylenes, Total	47.5	1.0	0.86	ug/l	50.0	ND	95	68-131	2	31	
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*26.3*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

DATA QUALIFIERS AND DEFINITIONS

E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Project Manager

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Project ID: APS 501,502, and 505

Report Number: PVI0635

Sampled: 09/11/12
Received: 09/11/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 08/10/12

TestAmerica
Phoenix

Instrument ID	GCMS 2
Date:	8/10/12
Analyst	mm
Method(s)	8260/624
50 ppm Cal. Std.	PV04887
2.5 ppm Cal. Std.	PV04888
500 / 250 / 50 ppm EtOH/TBA/Surr Cal. Std.	PV04791
50 / 25 / 5 ppm EtOH/TBA/Surr Cal. Std.	PV04792
50 ppm SS Std.	PV04717
500 / 250 ppm EtOH/TBA SS Std.	PV04303
Tertiary Std.	NA

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: _____ Date: 8/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\081012

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	08101201.d	1.	TUNE		10 Aug 2012 06:39
2	2	08101202.d	1.	25 PPB CCV		10 Aug 2012 06:57
3	3	08101203.d	1.	BLANK		10 Aug 2012 07:30
4	4	08101204.d	1.	0.5 PPB ICAL		10 Aug 2012 08:03
5	5	08101205.d	1.	1.0 PPB ICAL		10 Aug 2012 08:36
6	6	08101206.d	1.	2.0 PPB ICAL		10 Aug 2012 09:08
7	7	08101207.d	1.	5.0 PPB ICAL		10 Aug 2012 09:41
8	8	08101208.d	1.	10 PPB ICAL		10 Aug 2012 10:14
9	9	08101209.d	1.	25 PPB ICAL		10 Aug 2012 10:46
10	10	08101210.d	1.	50 PPB ICAL		10 Aug 2012 11:19
11	11	08101211.d	1.	100 PPB ICAL		10 Aug 2012 11:51
12	12	08101212.d	1.	200 PPB ICAL		10 Aug 2012 12:24
13	13	08101213.d	1.	BLANK		10 Aug 2012 12:57
14	1	08101214.d	1.	TUNE		10 Aug 2012 13:24
15	2	08101215.d	1.	25 PPB ICV/SS		10 Aug 2012 13:40
16	3	08101216.d	1.	12H0456-BS1		10 Aug 2012 14:13
17	4	08101217.d	1.	12H0456-BSD1		10 Aug 2012 14:45
18	5	08101218.d	1.	12H0456-BLK1		10 Aug 2012 15:18
19	6	08101219.d	1.	PVH0139-08@TB		10 Aug 2012 15:57
20	7	08101220.d	1.	PVH0159-04@TB		10 Aug 2012 16:32
21	8	08101221.d	1.	PVH0232-01	SOURCE	10 Aug 2012 17:05
22	9	08101222.d	1.	12H0456-MS1		10 Aug 2012 17:37
23	10	08101223.d	1.	12H0456-MSD1		10 Aug 2012 18:10
24	11	08101224.d	1.	PVH0620-01		10 Aug 2012 18:43
25	12	08101225.d	1.	PVH0620-02		10 Aug 2012 19:15
26	13	08101226.d	1.	PVH0257-05		10 Aug 2012 19:48
27	14	08101227.d	1.	PVH0257-06		10 Aug 2012 20:21
28	15	08101228.d	1.	PVH0257-07		10 Aug 2012 20:53
29	16	08101229.d	1.	PVH0257-08		10 Aug 2012 21:26
30	17	08101230.d	1.	PVH0257-09		10 Aug 2012 21:58
31	18	08101231.d	1.	PVH0159-03		10 Aug 2012 22:31
32	19	08101232.d	1.	PVH0568-01	100X	10 Aug 2012 23:04
33	20	08101233.d	1.	PVH0697-01	100X	10 Aug 2012 23:36
34	21	08101234.d	1.	PVH0569-01	100X	11 Aug 2012 00:09
35	22	08101235.d	1.	PVH0698-01	100X	11 Aug 2012 00:41
36	23	08101236.d	1.	PVH0202-01	100000X	11 Aug 2012 01:14

8/13/12

MM 8/13/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 8/10/12 QC BATCH # (s) : 12H0456

ANALYST: mm SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	08101201	Tunc	2µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	DMC
3	03	Blank	✓				
4	04	0.5 ppb ICAL	✓				
5	05	1.0	✓				
6	06	2.0	✓				
7	07	5.0	✓				
8	08	10	✓				
9	09	25	✓				
10	10	50	✓				
11	11	100	✓				
12	12	200	✓				
13	13	Blank	✓				DMC cleanout
1	14	Tunc	2µL			NA	
2	15	25 ppb ICV/SS	✓			H_2O	
3	16	12H0456-BS1	✓	NA			
4	17	-BSD1	✓				
5	18	-BLK1	✓				
6	19	PVH0139-08A	✓	✓			TB
7	20	PVH0159-04A	✓	✓			TB
8	21	PVH0232-01A	✓	✓			Soil
9	22	12H0456-MS1	✓	✓			
10	23	-MSD1	✓	✓			
11	24	PVH0020-01A	✓	✓			
12	25	-02A	✓	✓			
13	26	PVH0257-05A	✓	✓			
14	27	-06A	✓	✓			
15	28	-07A	✓	✓			
16	29	-08A	✓	✓			
17	30	-09A	✓	✓			RL10X RDLE

STANDARD ID NUMBERS

ICV / H_2O LCS: PV0477/4303

CCV/CALIBRATION STD: PV0488/4792/4887/4791

Internal Std: 4795

IS/Surrogate/BFB: 4794/4559

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL ICV SS + 5µL IS/Surr → 10ml H_2

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: mm 8/13/12

SEQUENCE REVIEWED By/Date: ✓

FINAL REVIEWER / Date: 8/13/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 08/10/12 QC BATCH # (s) : 12H0450

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
18	31	PVH0159-03A	✓	7	~~8260~~ ~~8260~~ ek 081012 8260	H_2O	RL 10X T All vials pH=7
19	32	0508-01D	100 ml → 10 ml H_2O	11			100X WM
20	33	0097-01D	100 ml → 10 ml H_2O	11			100X WM
21	34	0509-01D	100 ml → 10 ml H_2O	11			100X WM
22	35	0098-01D	100 ml → 10 ml H_2O	11			100X WM
23	310	0202-01B	1 ml → 10 ml H_2O → 1 ml → 10 ml H_2O	11			100,000X odor
							RL ~~10~~ 5 000,000X MEK, A, T

ek 081012

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD: see pg. 2

Internal Std:

IS/Surrogate/BFB: see pg. 1

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date: see pg. 2

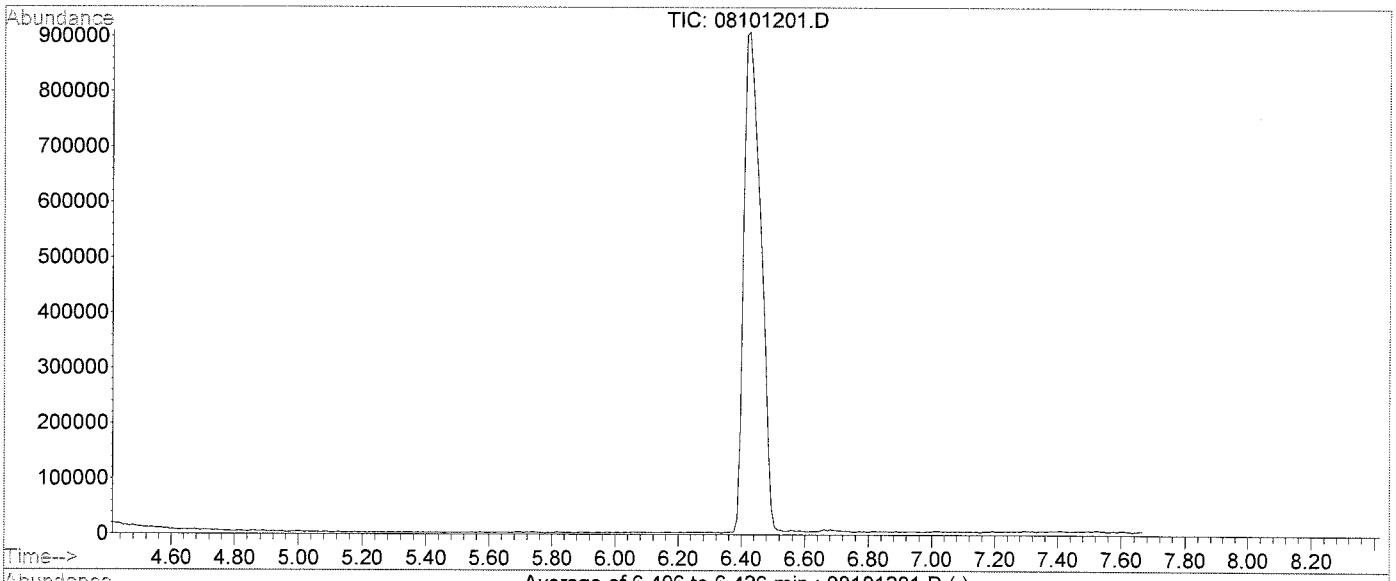
SEQUENCE REVIEWED By/Date:

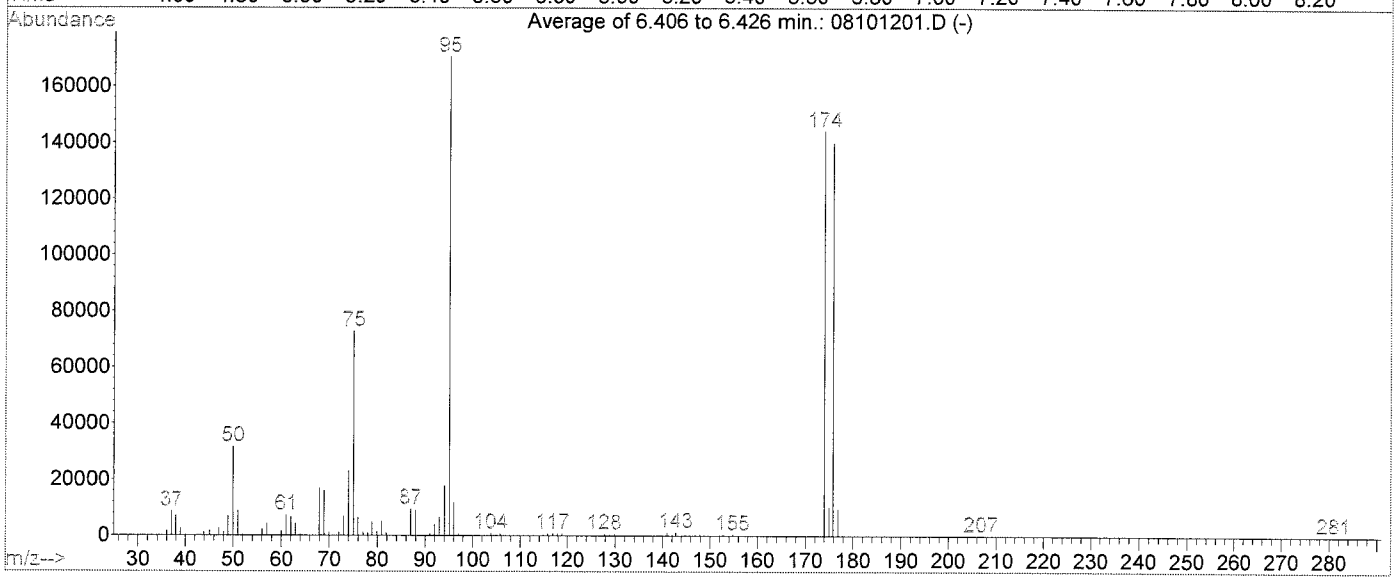
FINAL REVIEWER / Date: RR 8/13/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101201.D Vial: 1
Acq On : 10 Aug 2012 6:39 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration

8/13/12





Spectrum Information: Average of 6.406 to 6.426 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	31531	PASS
75	95	30	60	42.7	72755	PASS
95	95	100	100	100.0	170560	PASS
96	95	5	9	6.9	11734	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	144072	PASS
175	174	5	9	7.0	10104	PASS
176	174	95	101	97.0	139779	PASS
177	176	5	9	6.8	9517	PASS

MM 8/13/12

08101201.D 080712.M Fri Aug 10 12:47:05 2012

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00	ug/L	-0.01
50) Chlorobenzene-d5	15.28	117	292809	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	131913	28.41	ug/L	0.00
Spiked Amount 25.000			Recovery	=	113.64%	
48) Toluene-d8	13.33	98	397025	26.94	ug/L	0.00
Spiked Amount 25.000			Recovery	=	107.76%	
62) 4-Bromofluorobenzene	16.95	95	111862	26.20	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	104.80%	
Target Compounds						Qvalue
2) Ethanol	5.47	45	748	20.03	ug/L	80
9) Bromomethane	5.29	94	868	0.15	ug/L #	4
12) Acetone	6.25	43	1787	1.44	ug/L #	62
14) 1,1-Dichloroethene	6.82	96	491	0.09	ug/L #	1
28) 2,2-Dichloropropane	9.30	77	770	0.10	ug/L #	49
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.41	ug/L #	32
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.11	ug/L #	39
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.12	ug/L #	59
84) Napthalene	21.84	128	1664	0.34	ug/L #	82

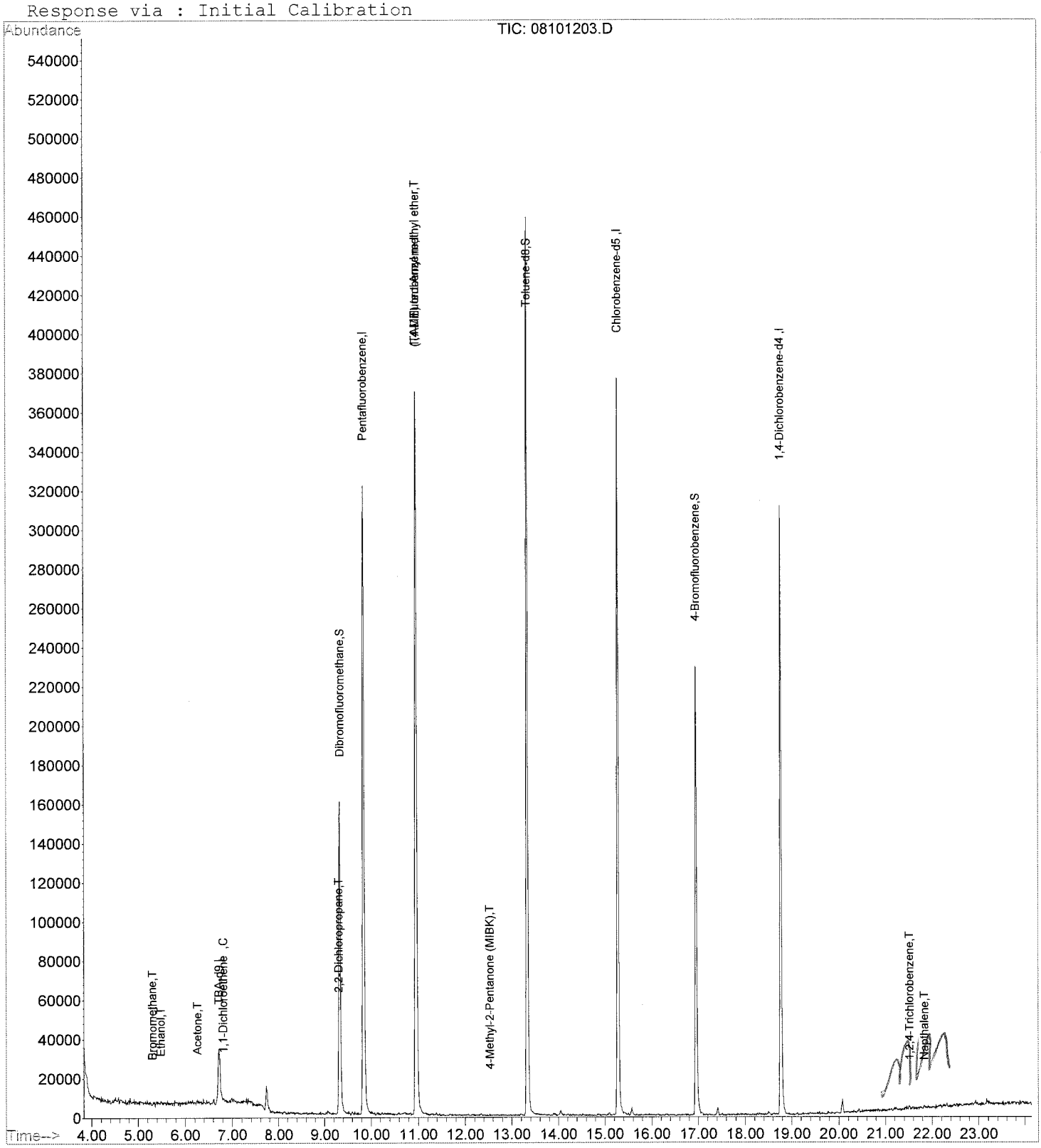
MM 8/13/12

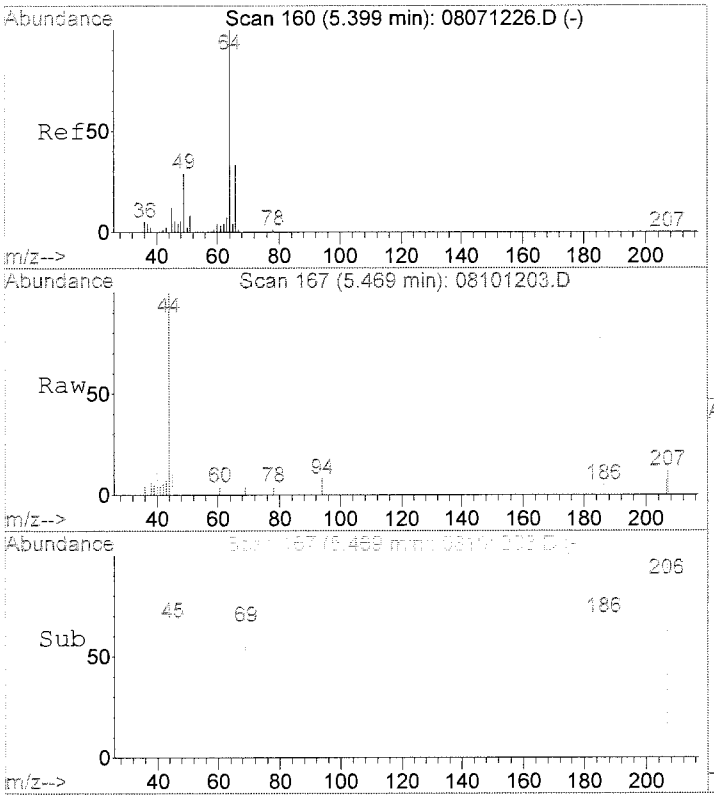
(#) = qualifier out of range (m) = manual integration
08101203.D 080712.M Fri Aug 10 12:47:36 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

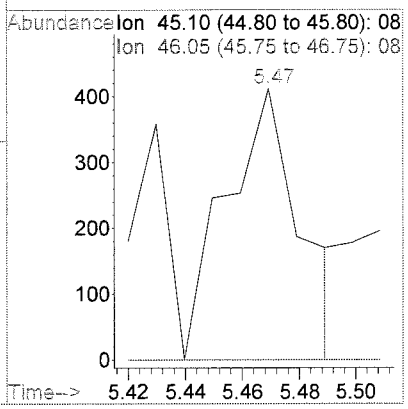


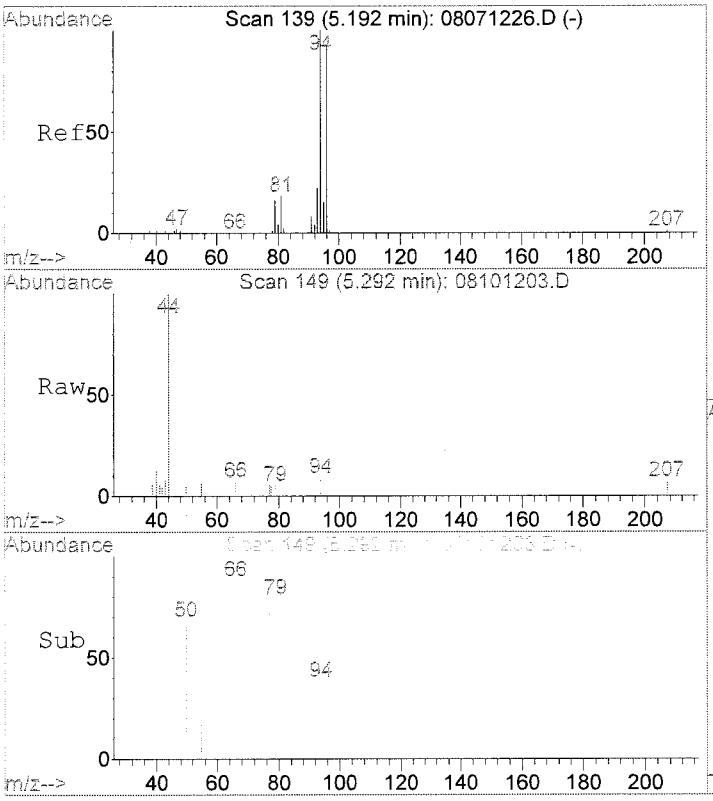


#2
Ethanol
Concen: 20.03 ug/L
RT: 5.47 min Scan# 167
Delta R.T. 0.07 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 748

Ion	Ratio	Lower	Upper
45	100		
46	26.2	18.6	58.6

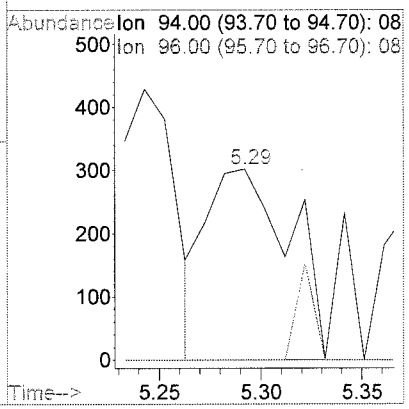


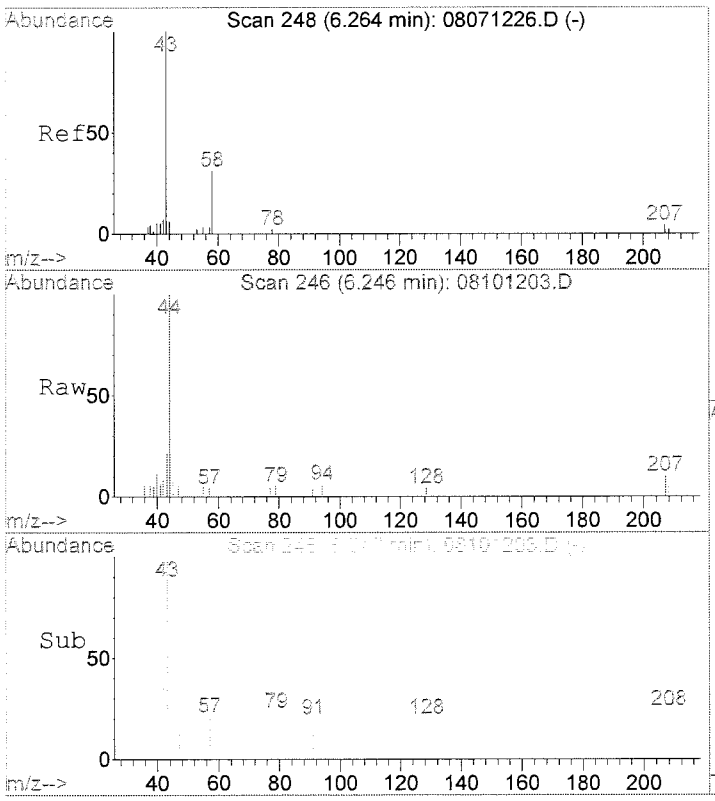


#9
Bromomethane
Concen: 0.15 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	73.6	110.4#

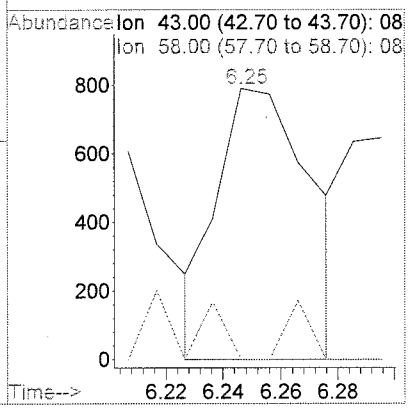


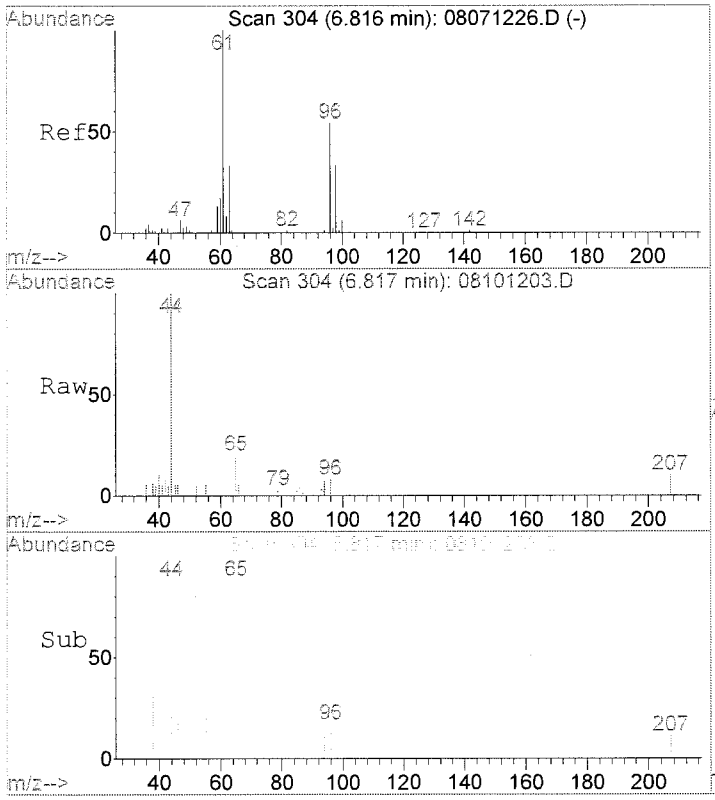


#12
Acetone
Concen: 1.44 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	19.5	29.3#

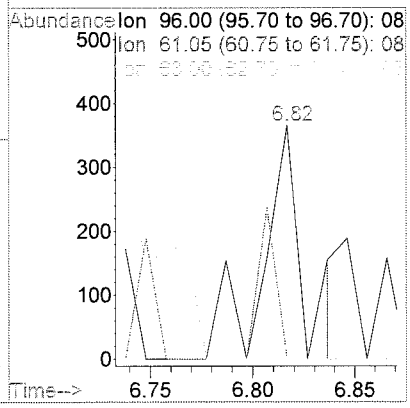


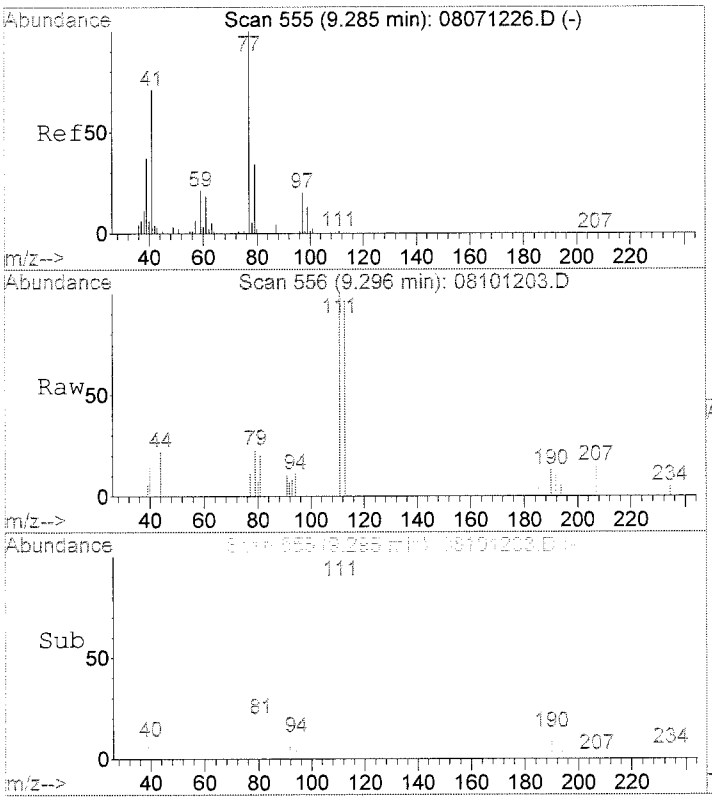


#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 6.82 min Scan# 304
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 96 Resp: 491

Ion	Ratio	Lower	Upper
96	100		
61	28.5	156.4	234.6#
63	0.0	51.6	77.4#

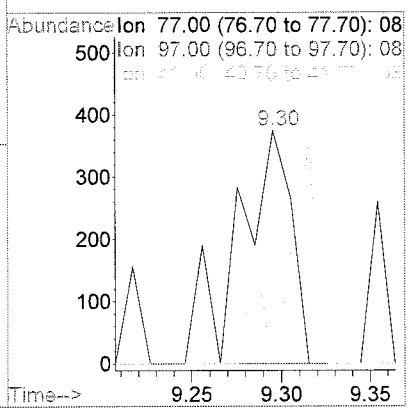


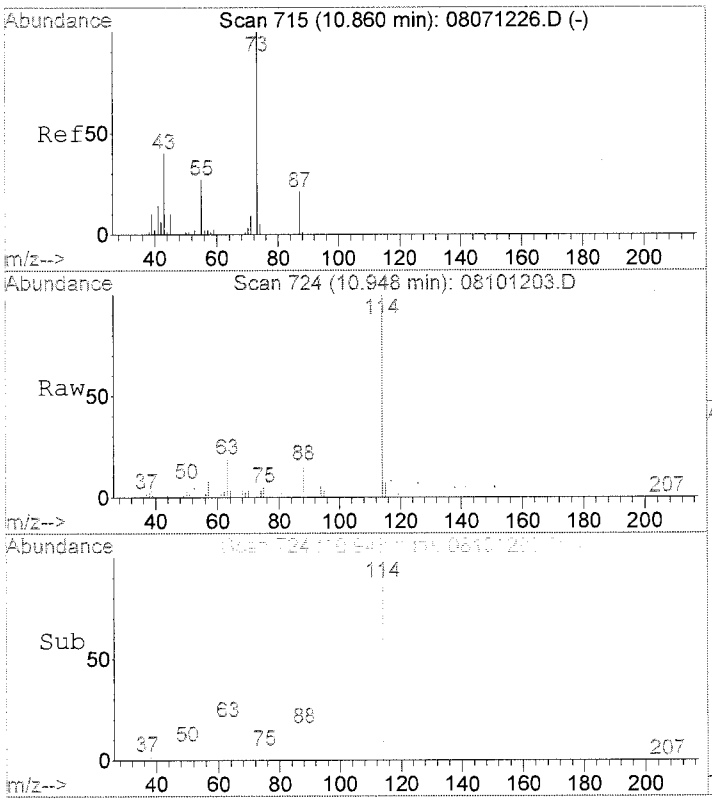


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.2	24.2#
41	52.9	85.4	128.2#

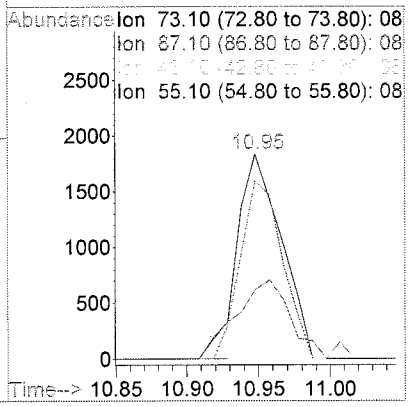


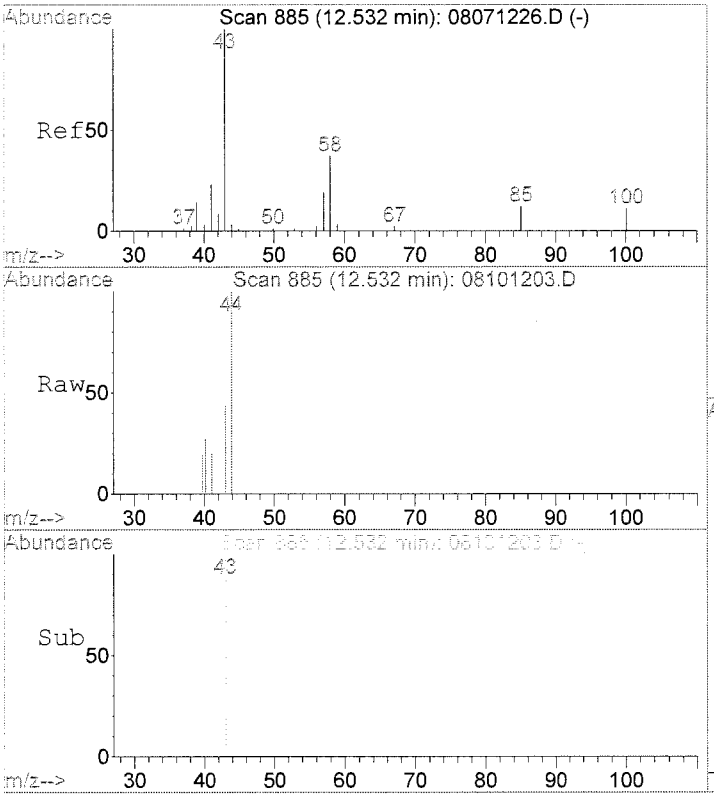


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	17.0	25.4#
43	5.7	32.2	48.4#
55	46.5	21.4	32.0#

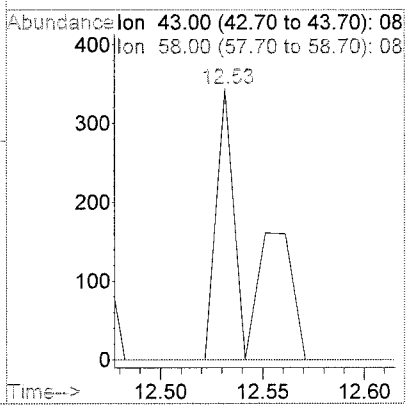


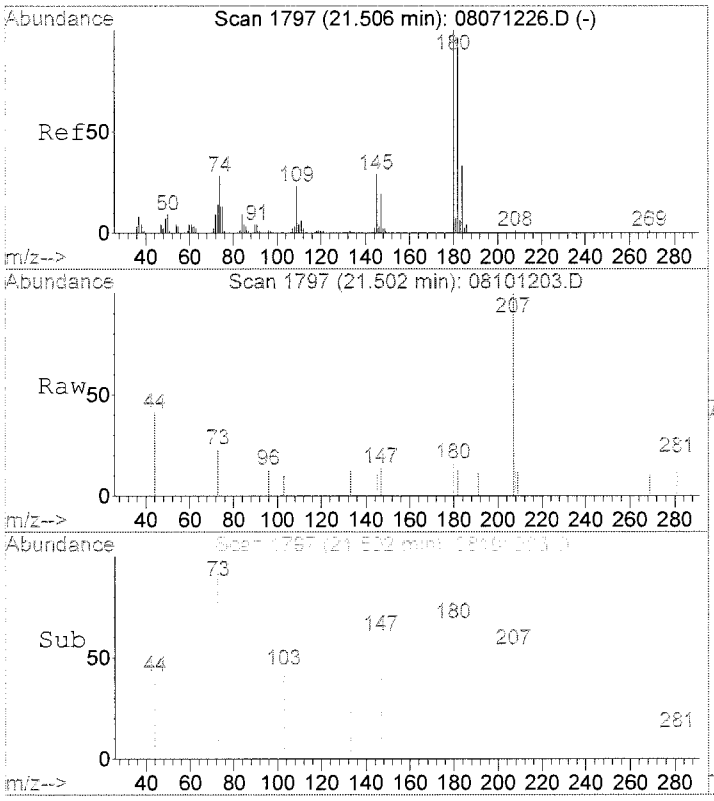


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.11 ug/L
RT: 12.53 min Scan# 885
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.5	42.7#

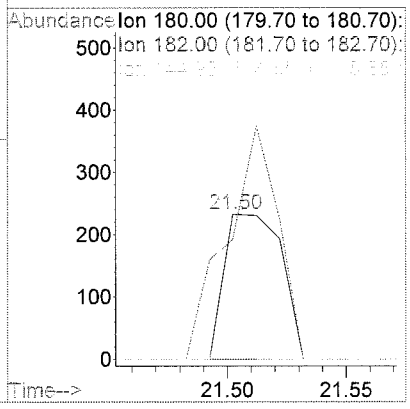




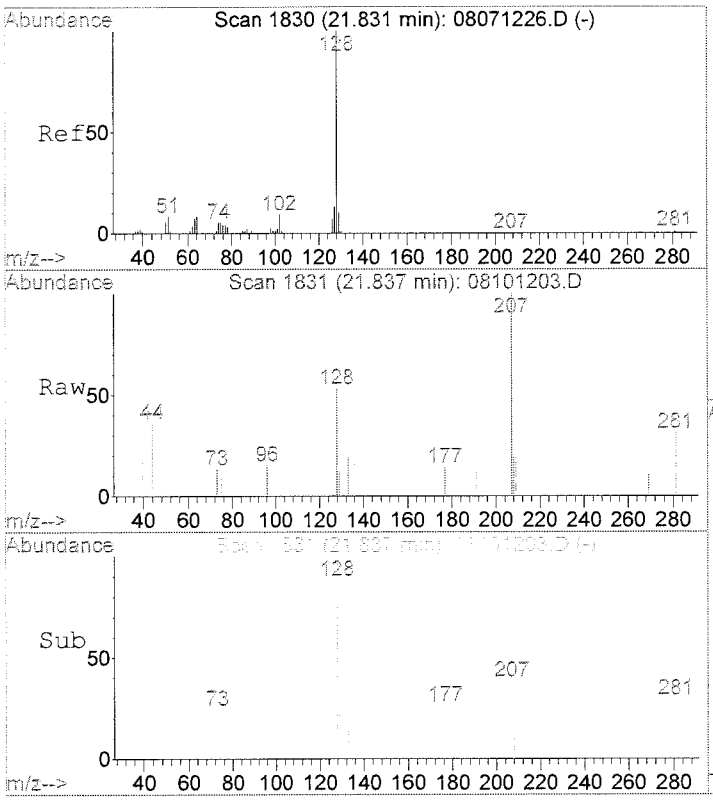
#83
1,2,4-Trichlorobenzene
Concen: 0.12 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	75.4	113.0#
145	25.5	21.9	32.9



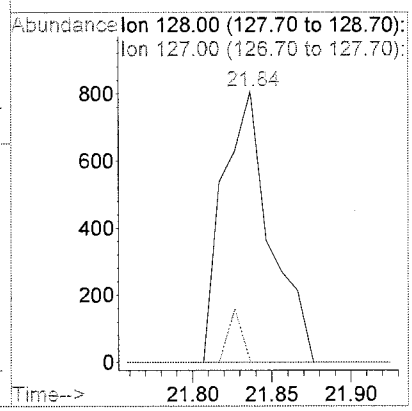
MM



#84
Napthalene
Concen: 0.34 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

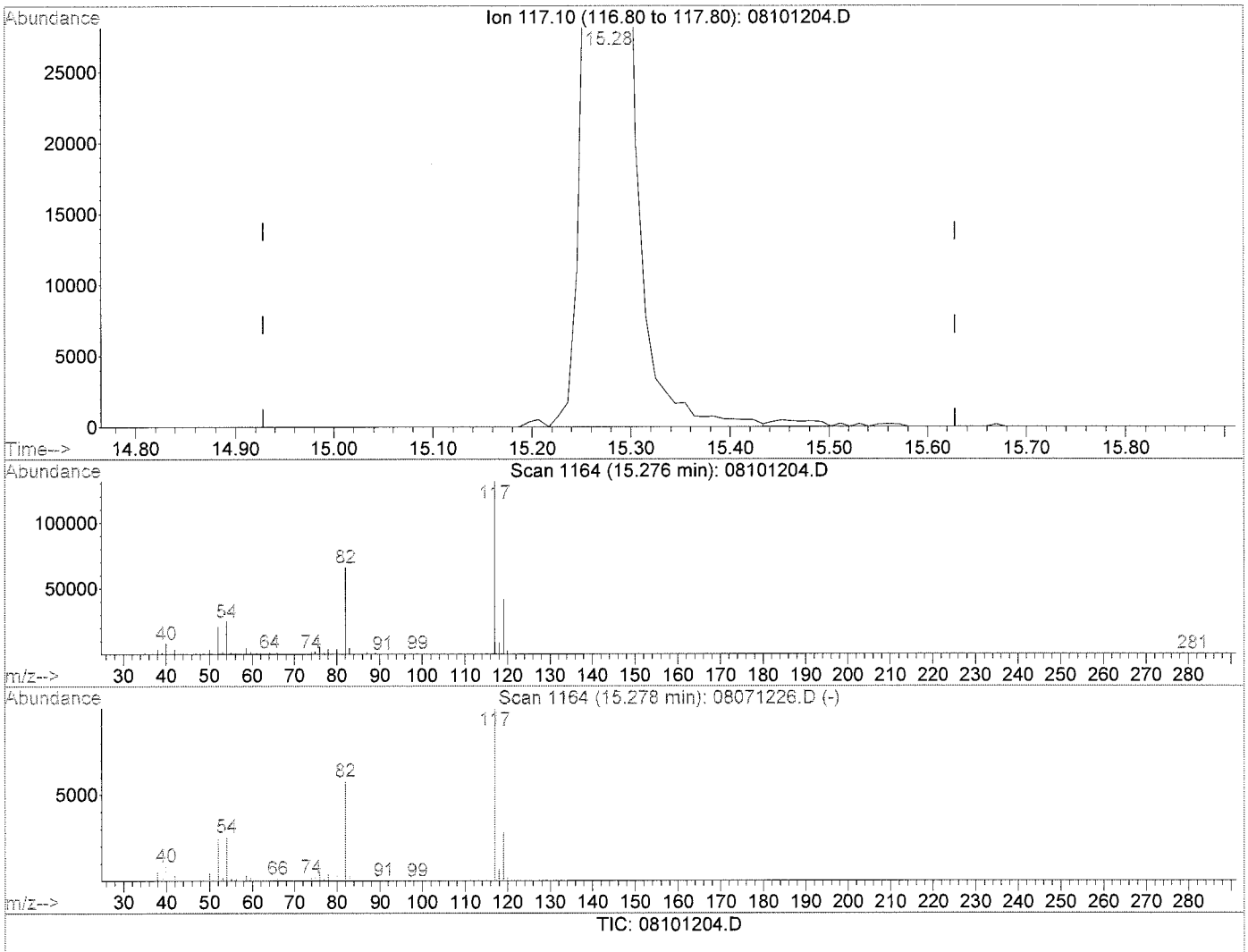
Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.2#



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

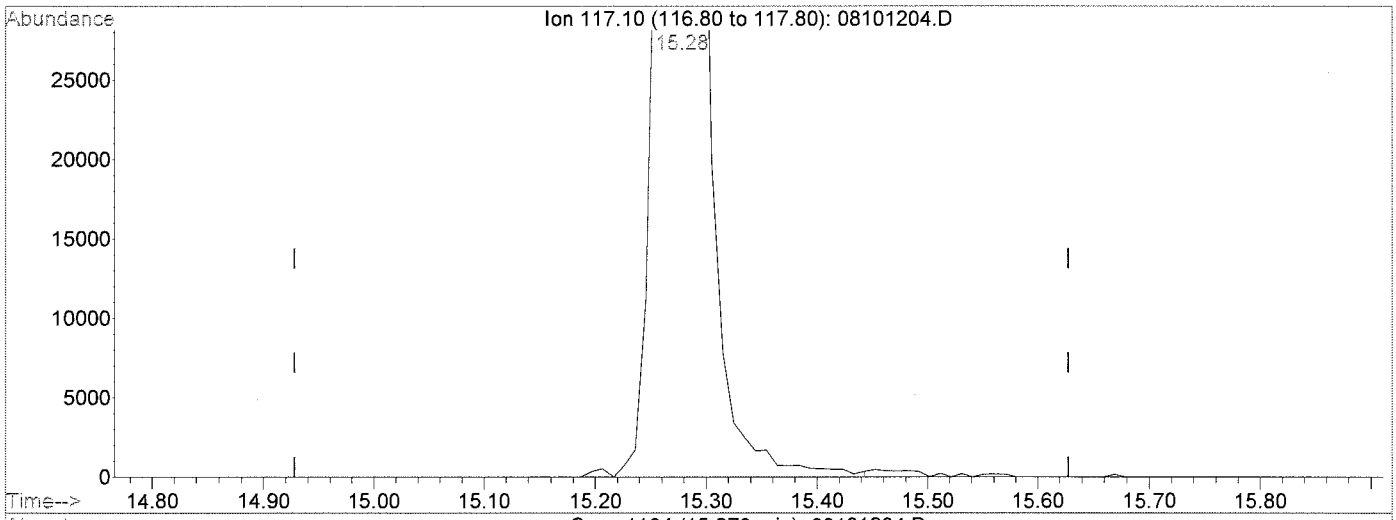
8/13/12

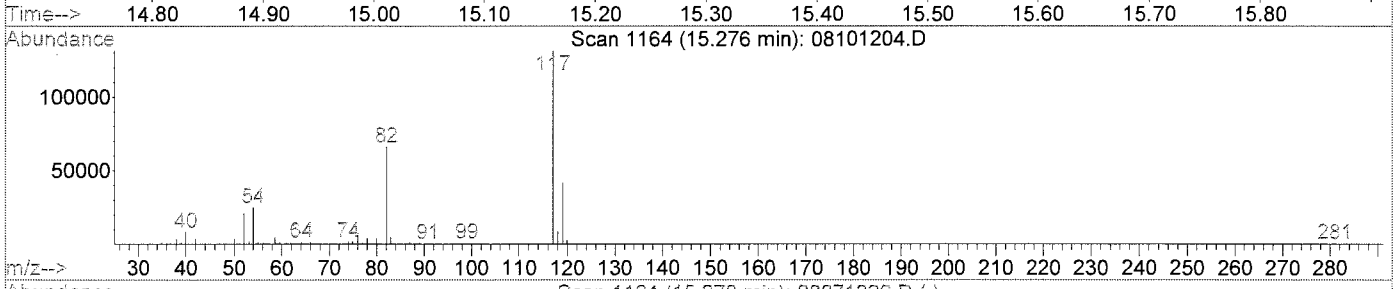
B CE MM 8/13/12

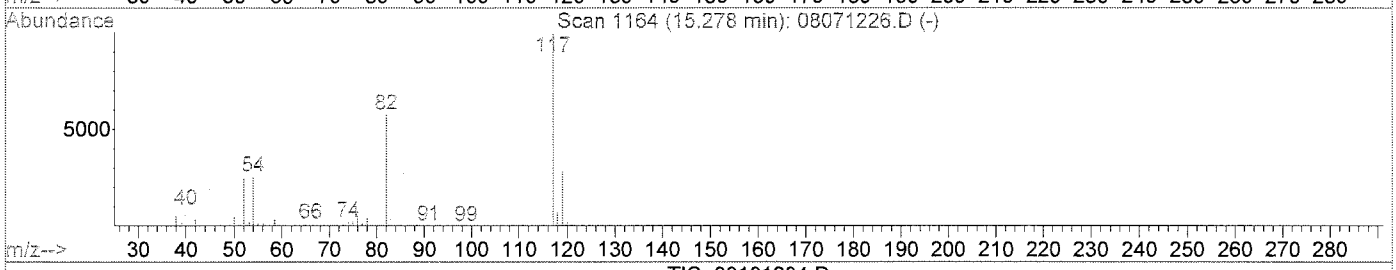
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285431

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285431m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.16%	
48) Toluene-d8	13.33	98	8308	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.36%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.20%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.55 ug/L	100
6) Chloromethane	4.35	50	5533	0.52 ug/L	95
7) Vinyl Chloride	4.63	62	5041	0.61 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.47 ug/L #	91
11) Trichlorofluoromethane	6.11	101	4136	0.47 ug/L	91
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.51 ug/L #	88
14) 1,1-Dichloroethene	6.81	96	3218	0.62 ug/L #	74
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	73
16) Freon 113	7.08	101	3192	0.55 ug/L	96
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	22
18) trans-1,2-Dichloroethene	7.86	96	3858	0.69 ug/L #	73
19) MTBE	8.01	73	4605	0.51 ug/L	99
20) 1,1-Dichloroethane	8.18	63	5100	0.53 ug/L #	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.57 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.54 ug/L #	84
25) cis-1,2-Dichloroethene	8.91	96	3145	0.63 ug/L #	77
26) Bromochloromethane	9.13	128	1212	0.58 ug/L	95
27) Chloroform	9.17	83	4473	0.54 ug/L #	86
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.55 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.41 ug/L #	92
33) 1,1,1-Trichloroethane	10.14	97	3906	0.55 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.63 ug/L #	91
36) 1,1-Dichloropropene	10.37	75	4256	0.53 ug/L #	76
37) Carbon Tetrachloride	10.60	117	3505	0.50 ug/L #	96
38) Benzene	10.66	78	10648	0.57 ug/L #	90
39) Dibromomethane	11.40	93	1079	0.48 ug/L	92
40) 1,2-Dichloropropane	11.43	63	2436	0.53 ug/L	88

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	2807	0.54 ug/L		98
42)	Bromodichloromethane	11.55	83	2375	0.41 ug/L	#	91
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d		
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.50 ug/L		88
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d		
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.75 ug/L	#	81
47)	1,1,2-Trichloroethane	13.17	97	939	0.36 ug/L	#	86
49)	Toluene	13.43	92	5962	0.60 ug/L	#	96
51)	1,3-Dichloropropane	13.49	76	2084	0.43 ug/L	#	85
52)	2-Hexanone	0.00	43	0	N.D. d		
53)	Dibromochloromethane	13.85	129	1416	0.40 ug/L		91
54)	1,2-Dibromoethane	14.18	107	1351	0.49 ug/L		96
55)	Tetrachloroethene	14.41	164	2667	0.57 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.55 ug/L	#	1
57)	Chlorobenzene	15.32	112	5746	0.57 ug/L		93
58)	Ethylbenzene	15.58	91	10303	0.56 ug/L		98
59)	m,p-Xylenes	15.84	106	3739	0.56 ug/L		90
60)	Styrene	16.30	104	5068	0.58 ug/L	#	90
61)	o-Xylene	16.40	106	3948	0.65 ug/L	#	89
64)	Bromoform	16.01	173	894	0.59 ug/L		91
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.54 ug/L	#	88
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	16.90	105	9688	0.59 ug/L		97
69)	Bromobenzene	17.24	156	2141	0.50 ug/L		90
70)	n-Propylbenzene	17.51	91	12373	0.59 ug/L		93
71)	2-Chlorotoluene	17.65	91	6496	0.53 ug/L		99
72)	4-Chlorotoluene	17.75	91	6322	0.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.57 ug/L		95
74)	tert-Butylbenzene	18.31	119	6960	0.60 ug/L		90
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.58 ug/L		91
76)	sec-Butylbenzene	18.61	105	11286	0.64 ug/L		94
77)	1,3-Dichlorobenzene	18.72	146	4471	0.62 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	4553	0.67 ug/L	#	89
79)	p-Isopropyltoluene	18.86	119	7691	0.59 ug/L	#	94
80)	1,2-Dichlorobenzene	19.28	146	3801	0.65 ug/L		96
81)	n-Butylbenzene	19.40	91	7498	0.62 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.66 ug/L	#	90
84)	Napthalene	21.83	128	3246	0.68 ug/L	#	75
85)	Hexachlorobutadiene	21.89	225	1870	0.72 ug/L	#	79
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.69 ug/L	#	82

9

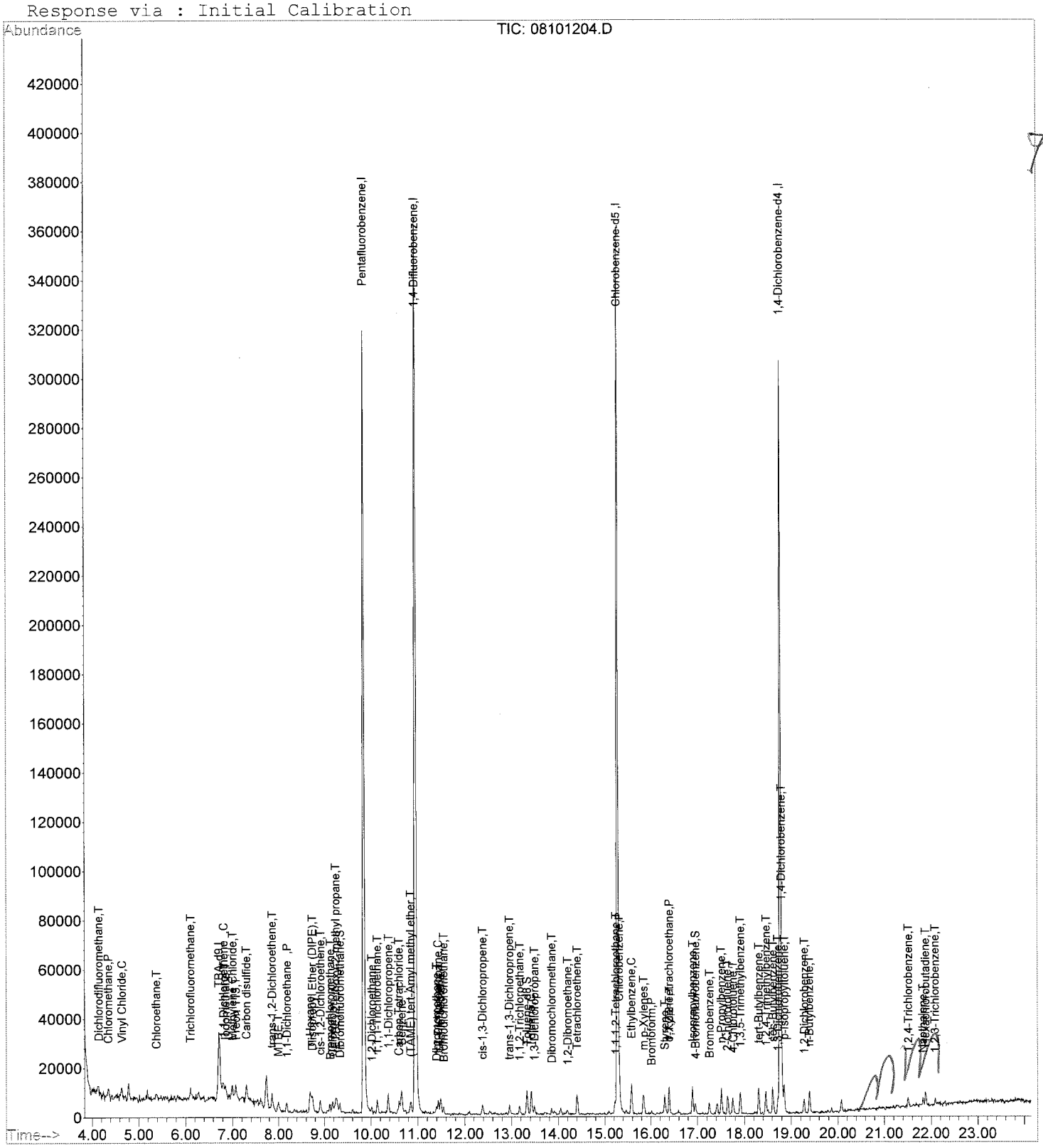
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

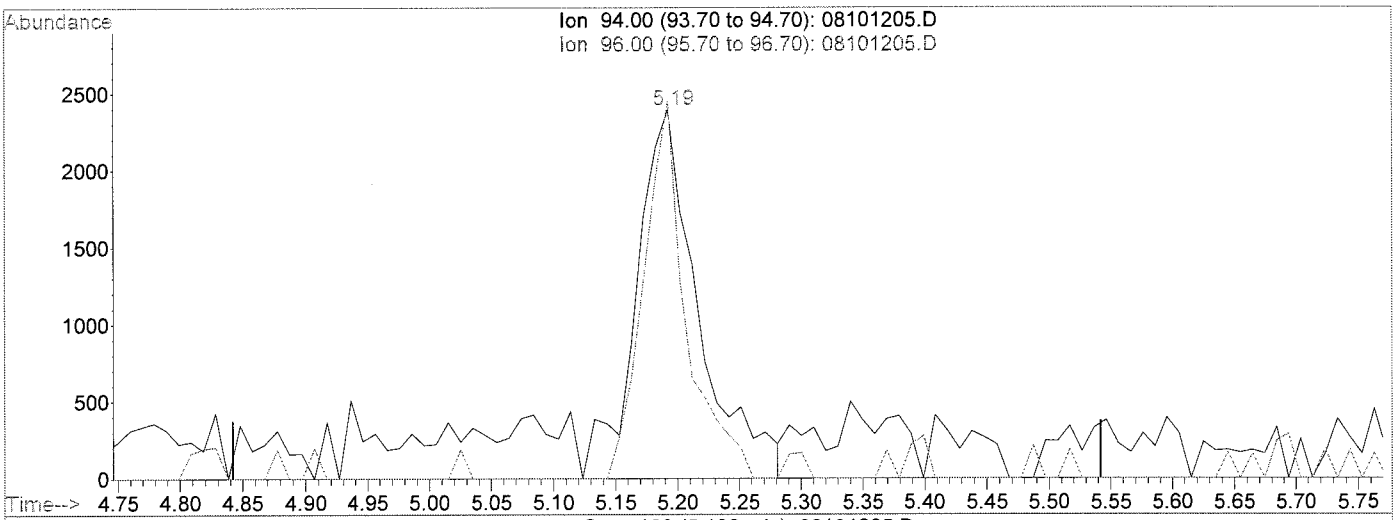
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

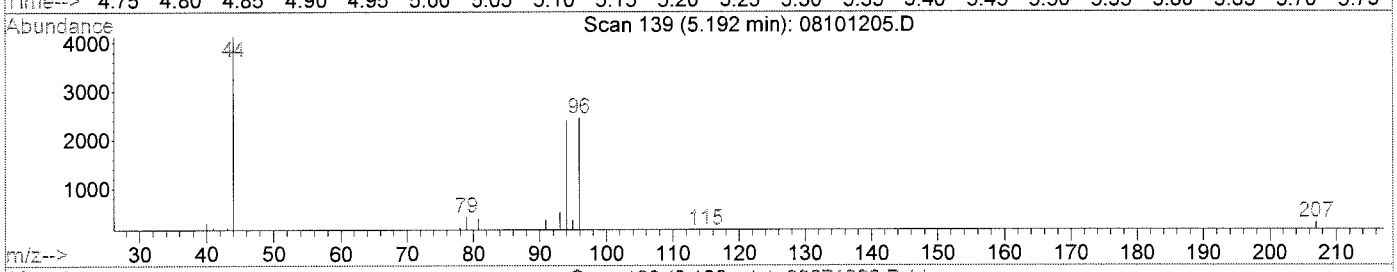


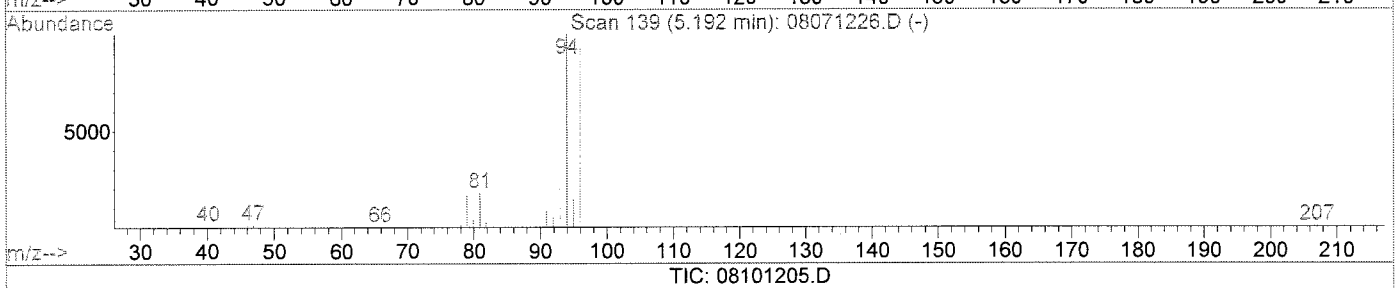
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.58ug/L

response 8343

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

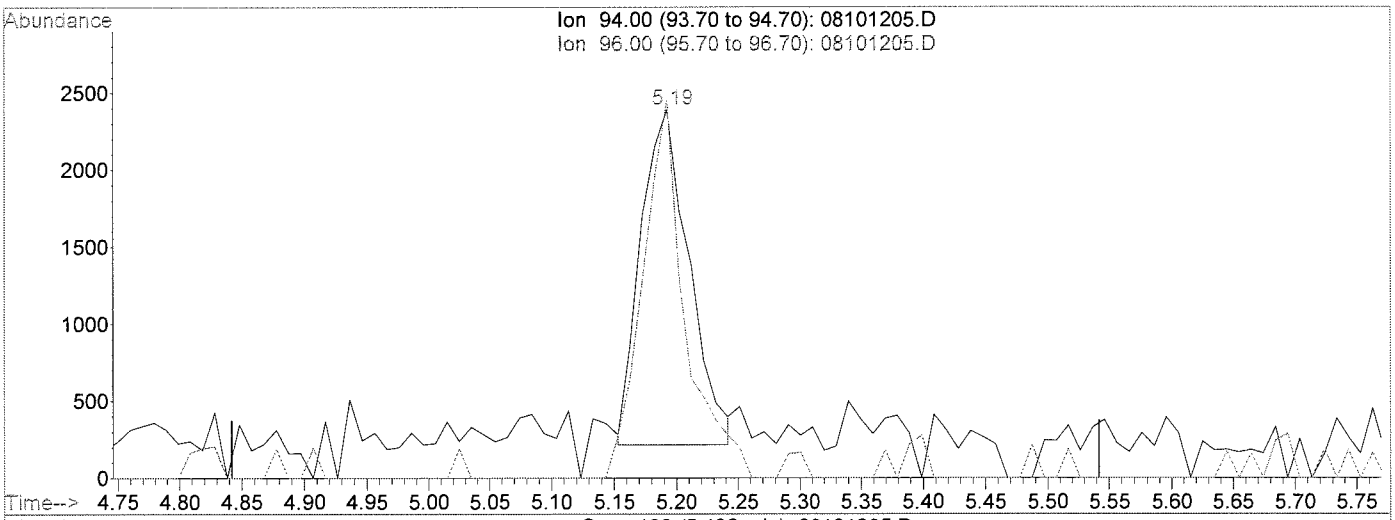
8/13/12

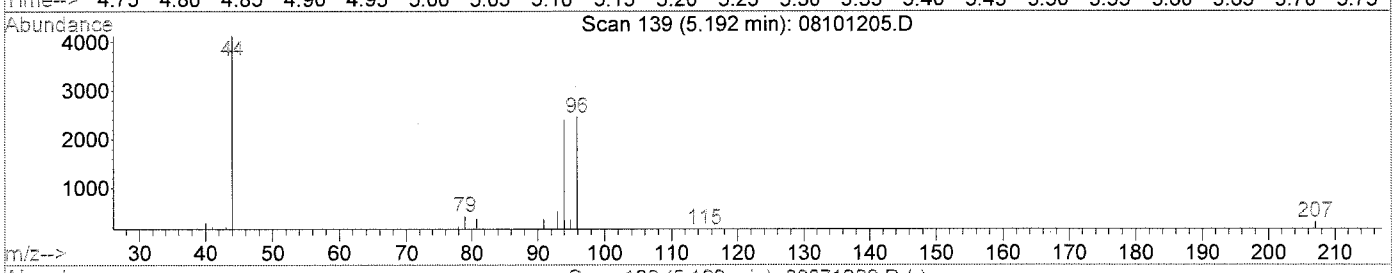
B
BL
MM 8/13/12

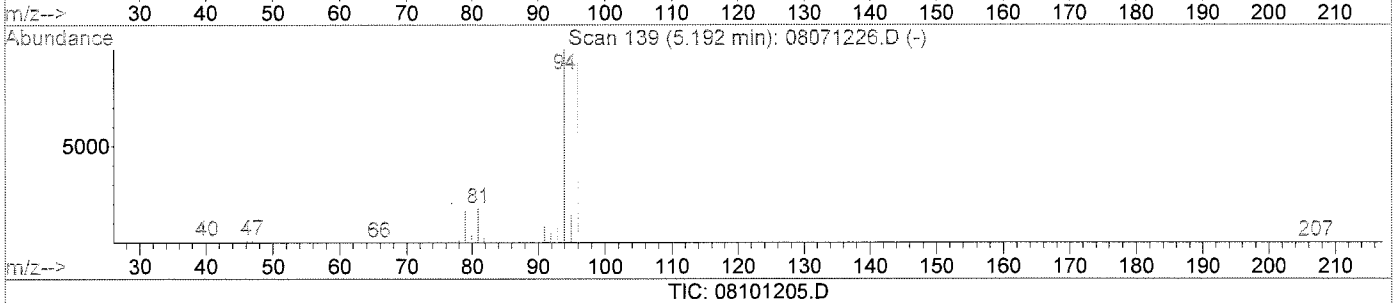
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.11ug/L m

response 5854

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	100.12
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

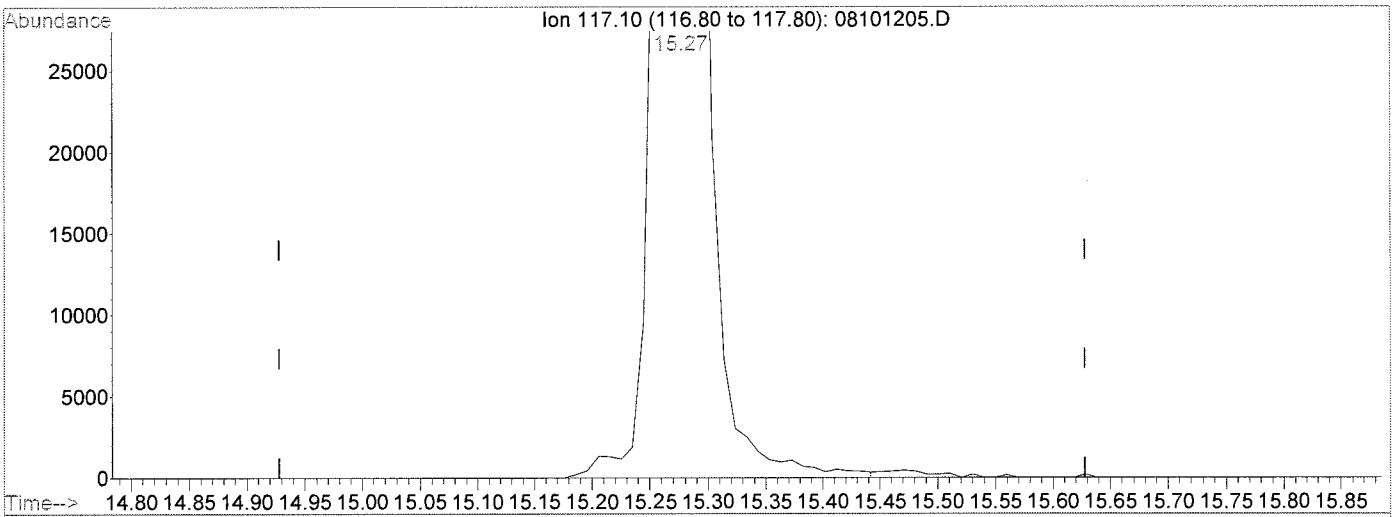
A

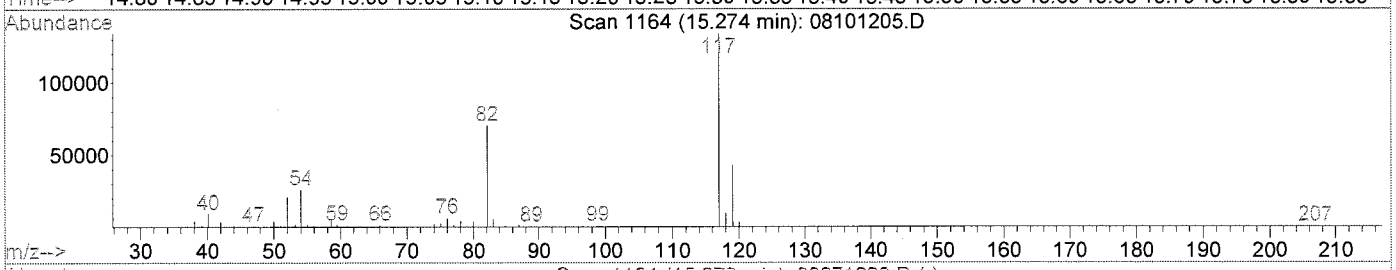
MM 8/13/12

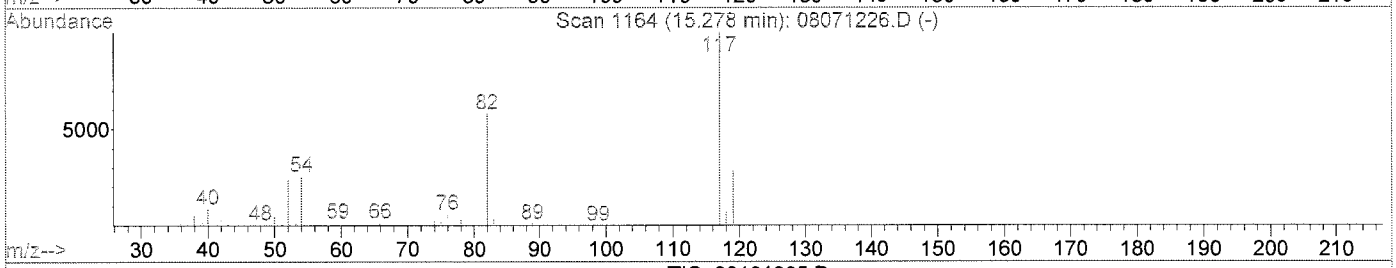
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

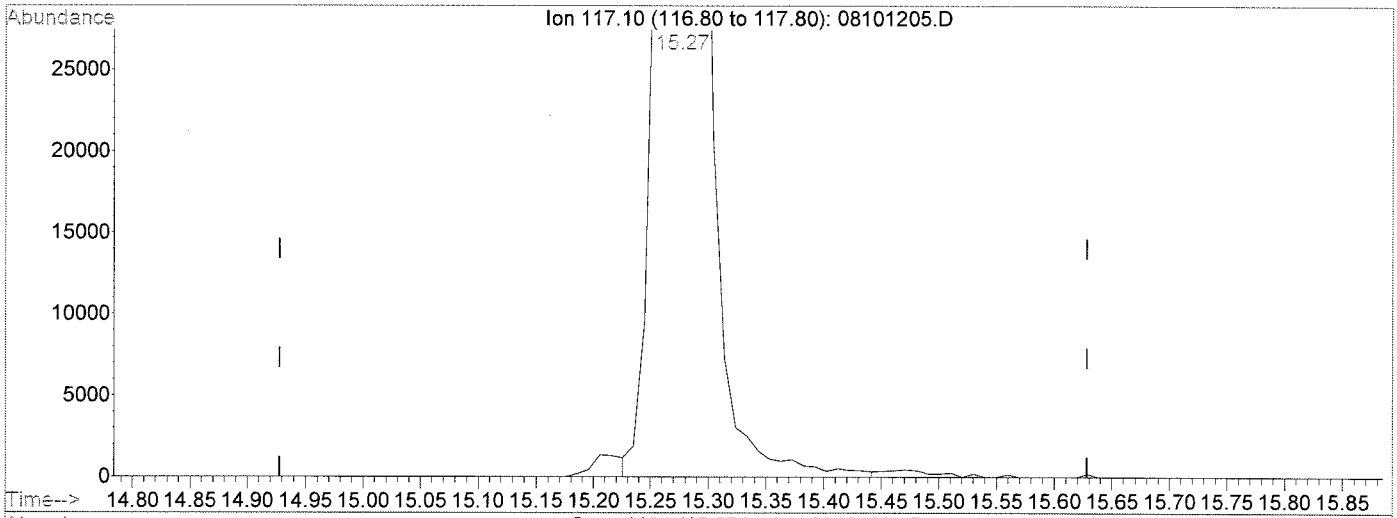
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

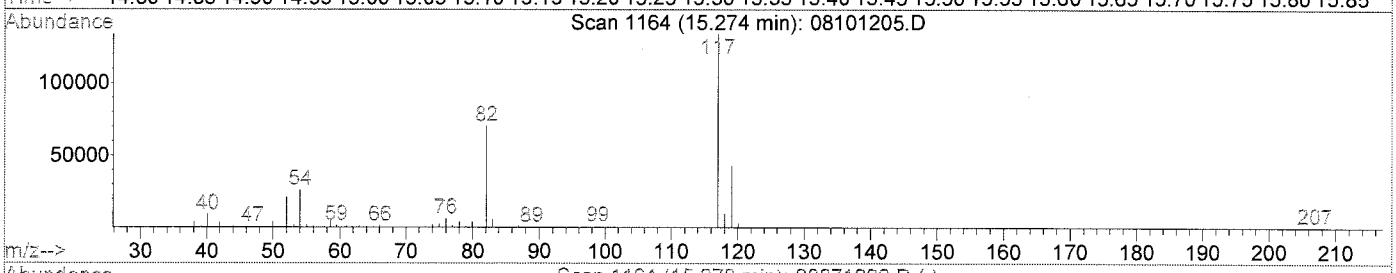
B CE mm 8/13/12

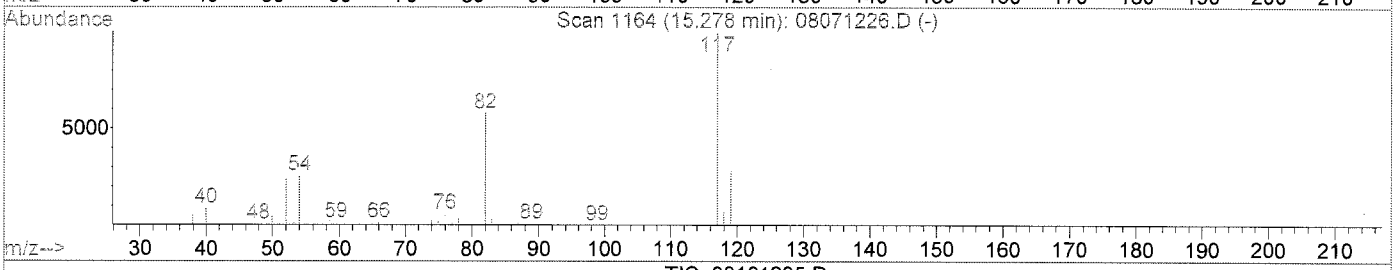
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 289717

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	~~Dev~~(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	289717m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.76%	
48) Toluene-d8	13.33	98	15044	1.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.08%	
62) 4-Bromofluorobenzene	16.96	95	4337	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.06 ug/L	99
6) Chloromethane	4.36	50	11345	1.09 ug/L	100
7) Vinyl Chloride	4.63	62	9613	1.17 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	1.02 ug/L #	77
9) Bromomethane	5.19	94	5854m	1.11 ug/L	
10) Chloroethane	5.38	64	4474	0.99 ug/L #	77
11) Trichlorofluoromethane	6.11	101	8147	0.94 ug/L	94
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.10 ug/L	92
14) 1,1-Dichloroethene	6.82	96	6624	1.30 ug/L #	60
15) Methylene Chloride	6.99	84	5669	1.12 ug/L #	80
16) Freon 113	7.06	101	5907	1.03 ug/L	94
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	97
18) trans-1,2-Dichloroethene	7.86	96	6803	1.23 ug/L	82
19) MTBE	8.00	73	9909	1.11 ug/L	95
20) 1,1-Dichloroethane	8.18	63	10543	1.12 ug/L	98
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.31 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.15 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	6451	1.32 ug/L	87
26) Bromochloromethane	9.12	128	2129	1.03 ug/L	91
27) Chloroform	9.18	83	8439	1.04 ug/L #	86
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.08 ug/L #	90
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	0.98 ug/L	95
33) 1,1,1-Trichloroethane	10.14	97	6935	0.98 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	1.10 ug/L #	92
36) 1,1-Dichloropropene	10.38	75	8845	1.05 ug/L	97
37) Carbon Tetrachloride	10.61	117	6413	0.87 ug/L	95
38) Benzene	10.66	78	20457	1.05 ug/L #	90
39) Dibromomethane	11.39	93	2452	1.04 ug/L	91
40) 1,2-Dichloropropane	11.44	63	5094	1.07 ug/L #	84

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.99 ug/L	92
42)	Bromodichloromethane	11.56	83	5117	0.86 ug/L #	95
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.98 ug/L #	88
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	0.98 ug/L	99
46)	trans-1,3-Dichloropropene	12.96	75	4943	1.19 ug/L #	84
47)	1,1,2-Trichloroethane	13.17	97	2959	1.08 ug/L	87
49)	Toluene	13.42	92	10896	1.05 ug/L #	96
51)	1,3-Dichloropropane	13.49	76	5303	1.07 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.95 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	1.03 ug/L	99
55)	Tetrachloroethene	14.41	164	4967	1.04 ug/L	92
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.97 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	1.06 ug/L	88
58)	Ethylbenzene	15.58	91	20863	1.12 ug/L	97
59)	m,p-Xylenes	15.84	106	7380	1.10 ug/L	98
60)	Styrene	16.30	104	9553	1.09 ug/L #	93
61)	o-Xylene	16.40	106	7004	1.14 ug/L	92
64)	Bromoform	16.02	173	1913	1.04 ug/L	96
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	1.03 ug/L #	98
66)	1,2,3-Trichloropropane	16.58	110	765	0.92 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	1.05 ug/L	99
69)	Bromobenzene	17.25	156	4047	0.92 ug/L	98
70)	n-Propylbenzene	17.51	91	22751	1.06 ug/L	95
71)	2-Chlorotoluene	17.65	91	12533	1.00 ug/L	95
72)	4-Chlorotoluene	17.75	91	12326	1.04 ug/L	100
73)	1,3,5-Trimethylbenzene	17.91	105	13867	1.05 ug/L	97
74)	tert-Butylbenzene	18.30	119	12547	1.05 ug/L	88
75)	1,2,4-Trimethylbenzene	18.46	105	13204	1.06 ug/L	98
76)	sec-Butylbenzene	18.61	105	19700	1.09 ug/L	95
77)	1,3-Dichlorobenzene	18.72	146	7952	1.07 ug/L	96
78)	1,4-Dichlorobenzene	18.81	146	7762	1.11 ug/L #	92
79)	p-Isopropyltoluene	18.85	119	15724	1.17 ug/L	96
80)	1,2-Dichlorobenzene	19.28	146	6825	1.13 ug/L	93
81)	n-Butylbenzene	19.40	91	14669	1.18 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.98 ug/L #	84
84)	Napthalene	21.83	128	6316	1.29 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.97 ug/L	99
86)	1,2,3-Trichlorobenzene	22.09	180	2981	1.11 ug/L	92

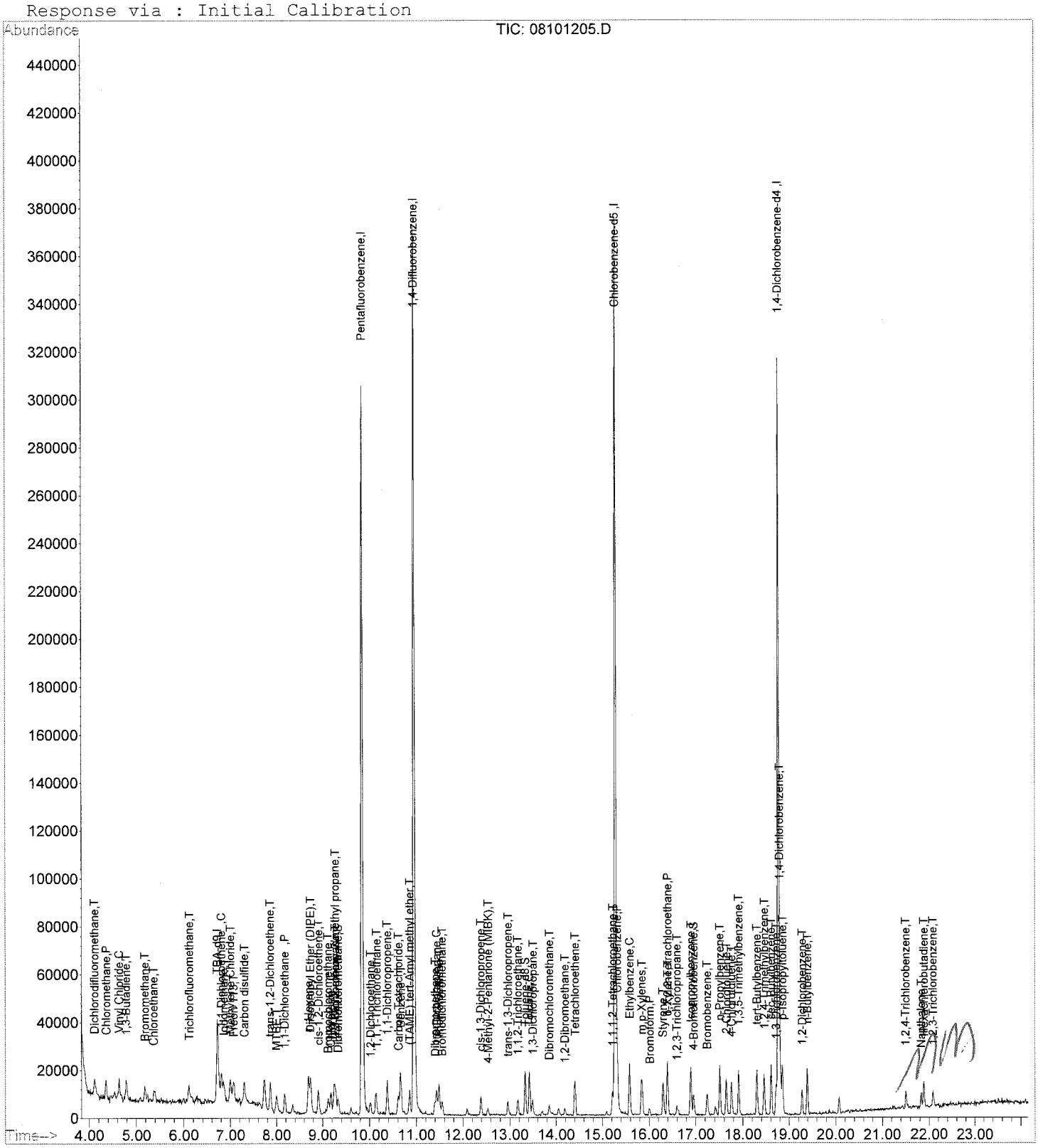
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

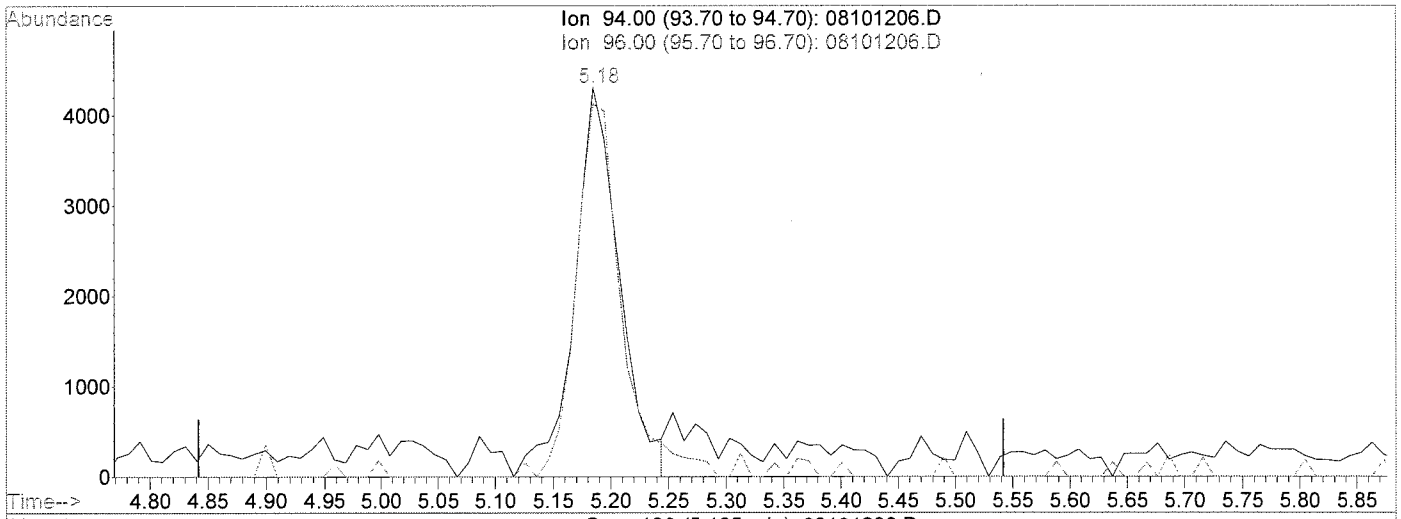
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

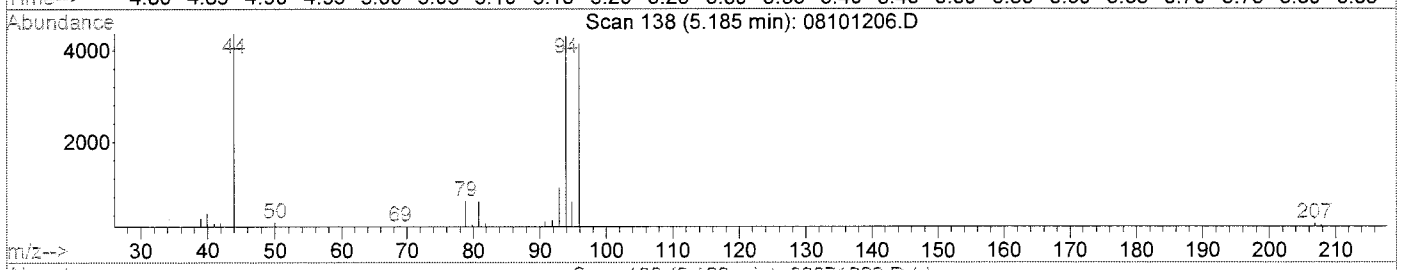


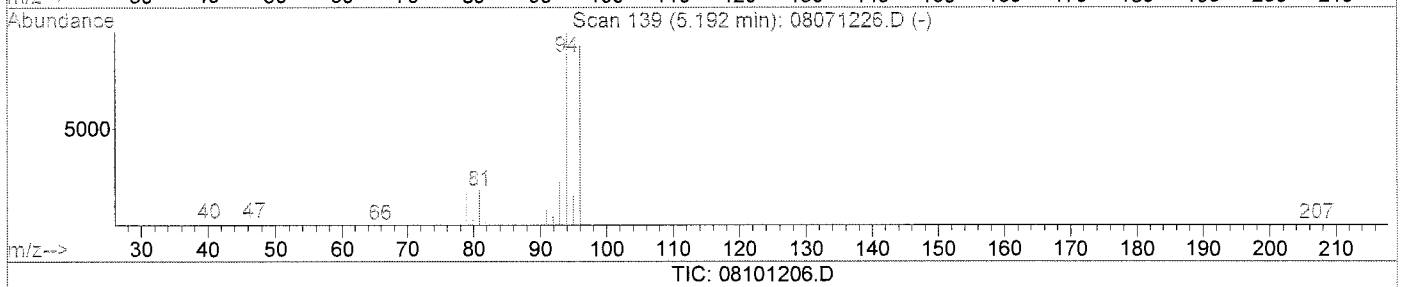
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.25ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

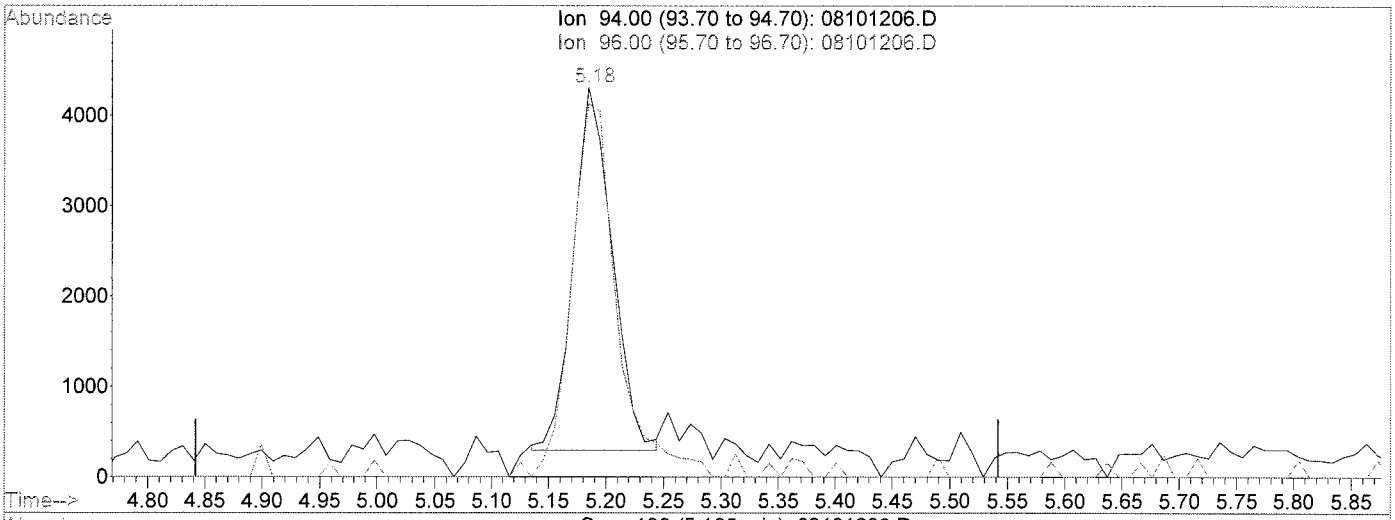
BL

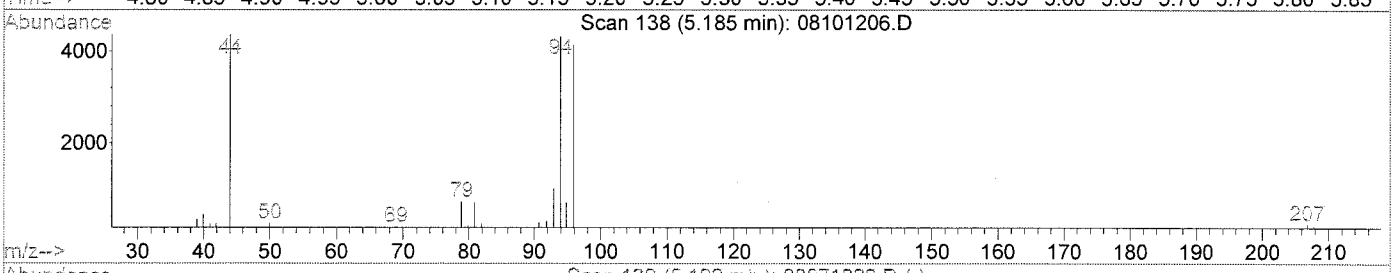
MM 8/13/12

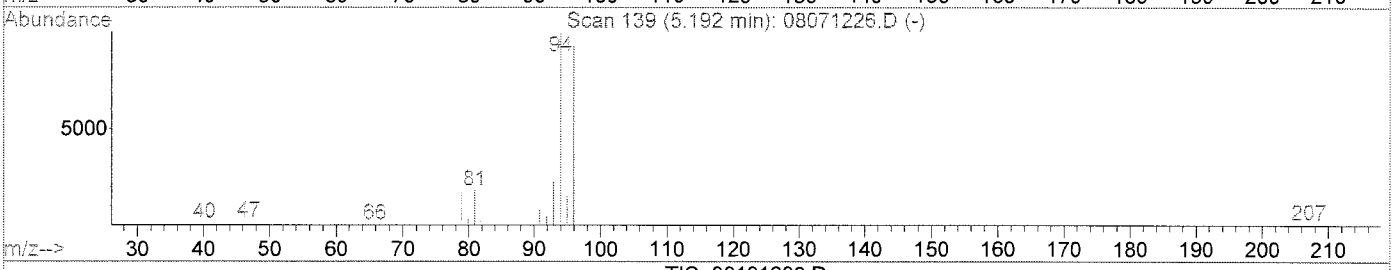
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.81ug/L m

response 9480

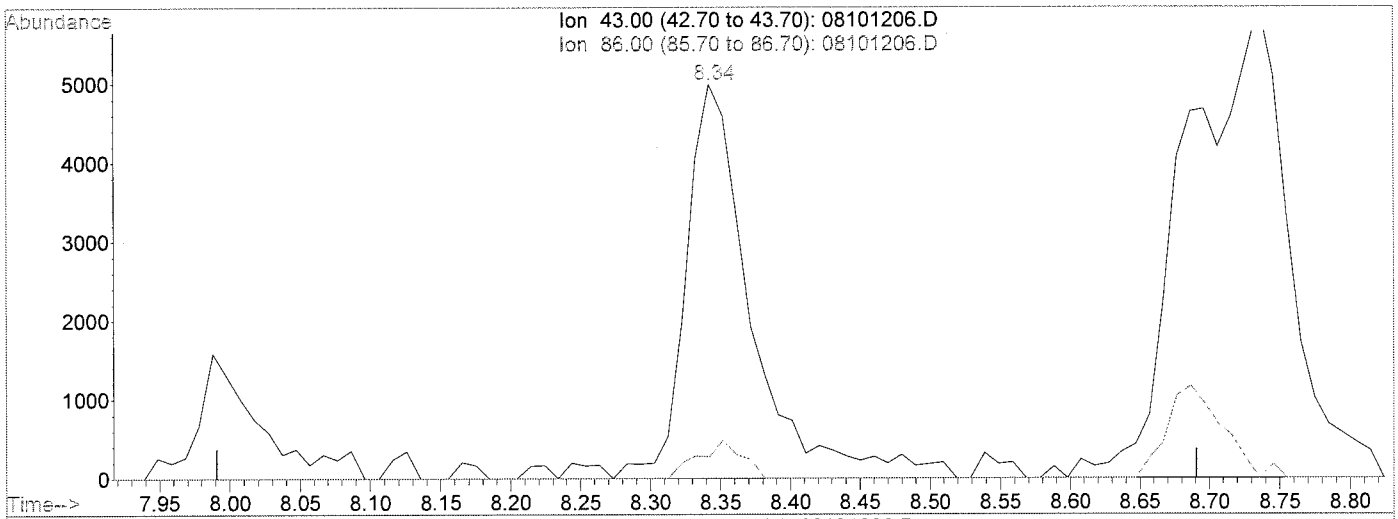
Ion	Exp%	Act%
94.00	100	100
96.00	92.00	122.20#
0.00	0.00	0.00
0.00	0.00	0.00

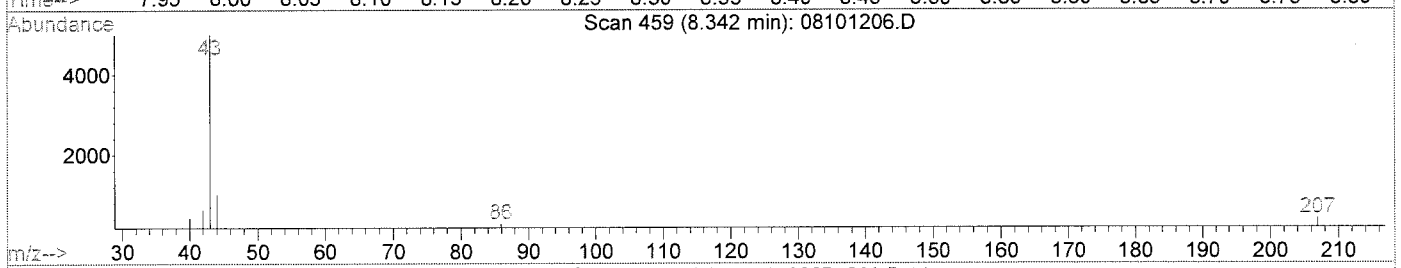
MM 8/13/12

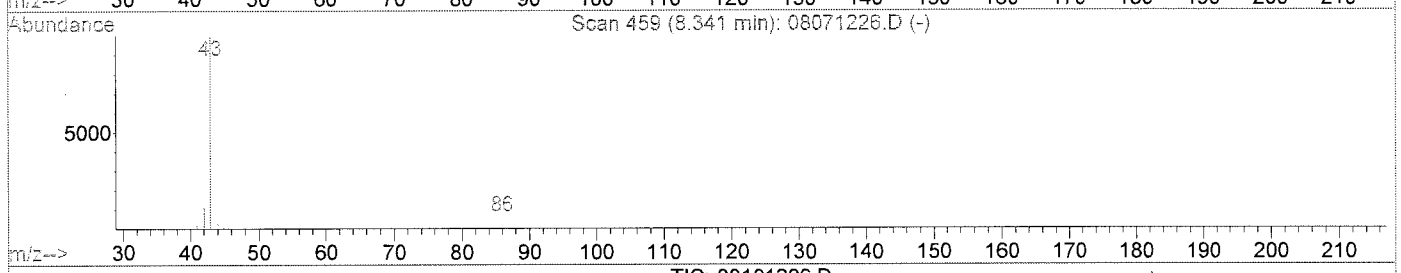
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

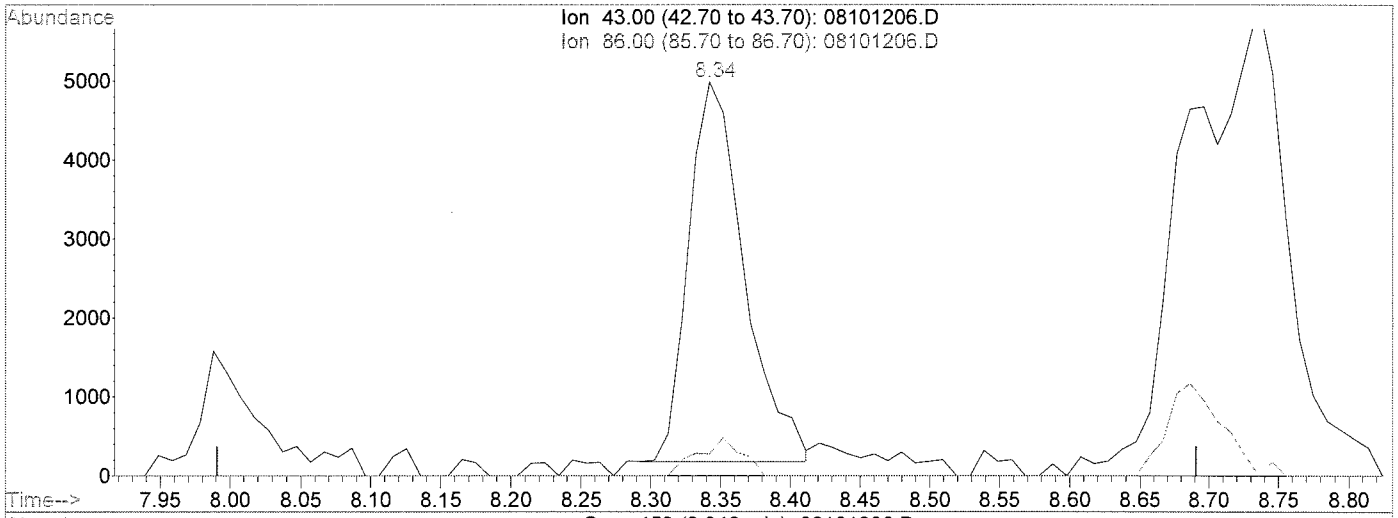
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	6.41
0.00	0.00	0.00
0.00	0.00	0.00

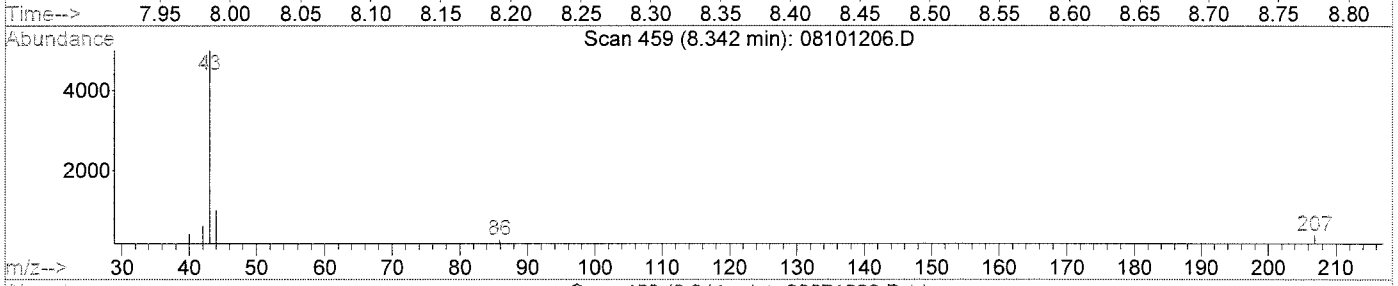
B
BL
MM 8/13/12

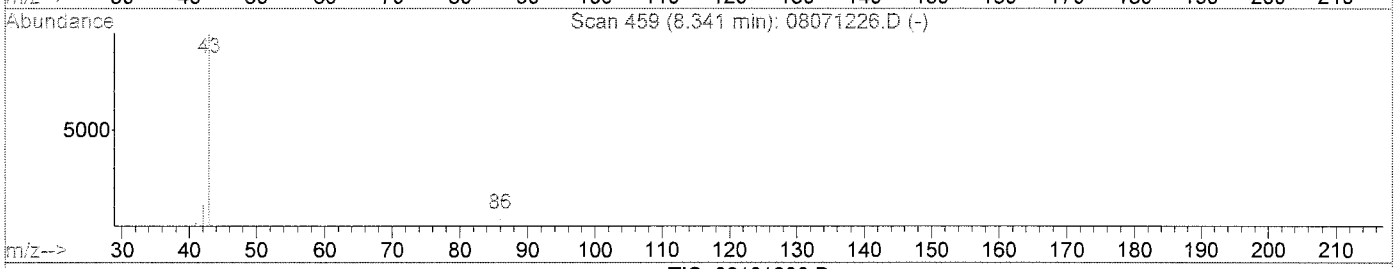
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 1.84ug/L m

response 13334

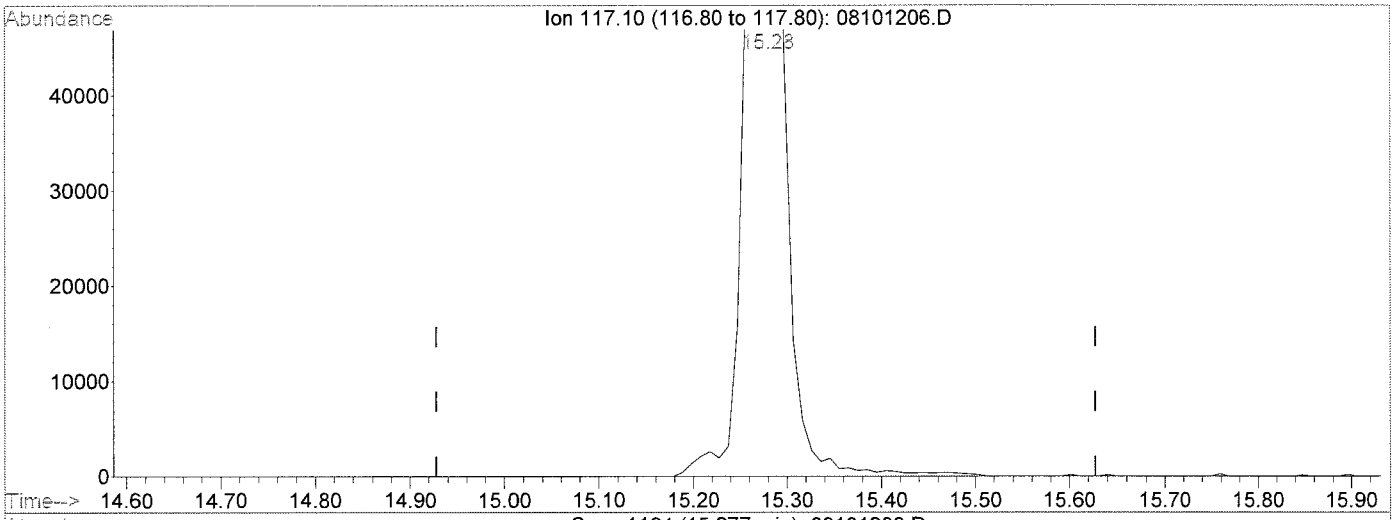
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	7.85#
0.00	0.00	0.00
0.00	0.00	0.00

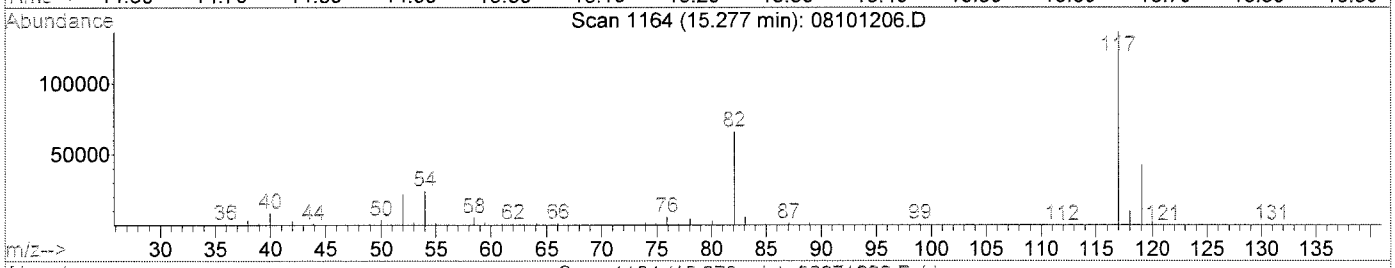
A
MM 8/13/12

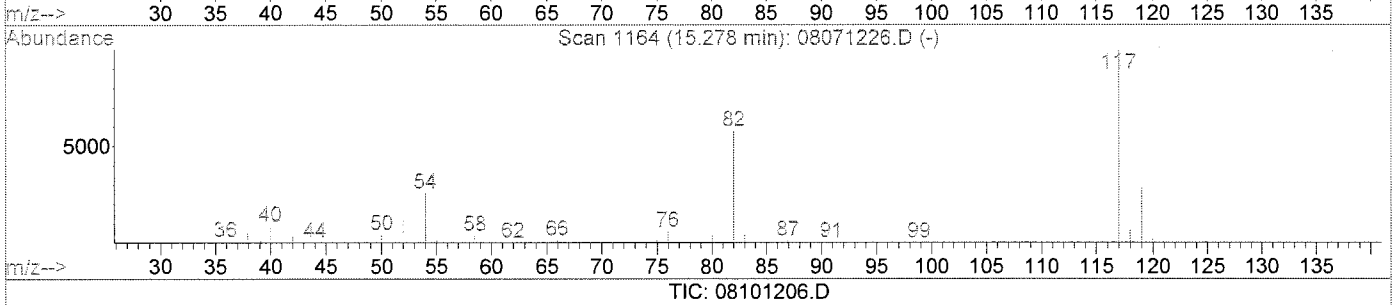
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

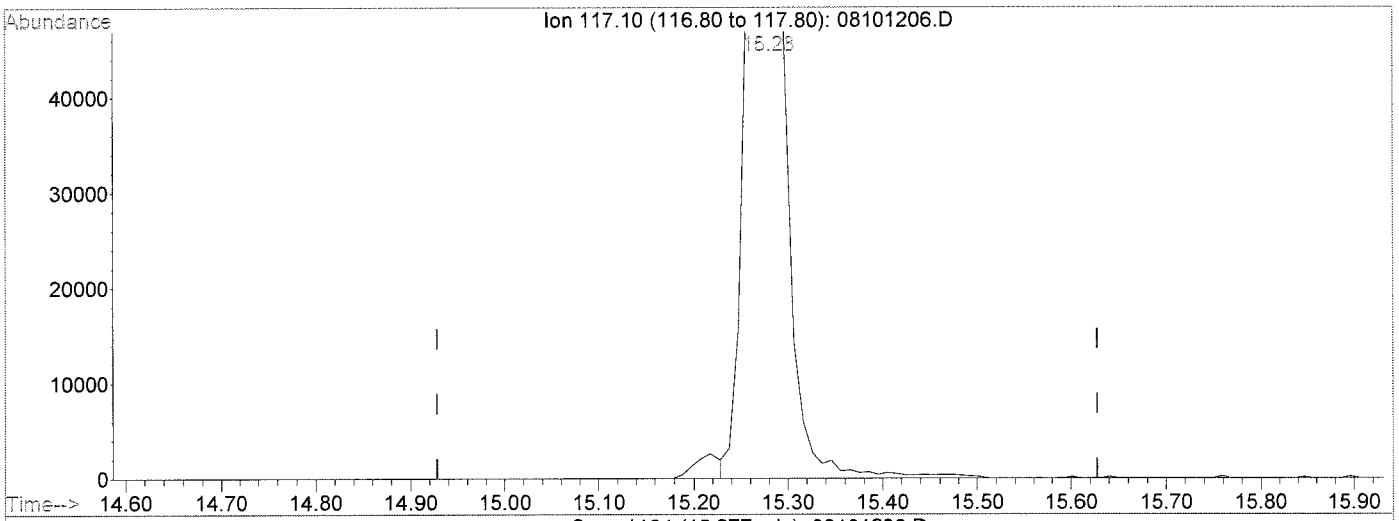
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

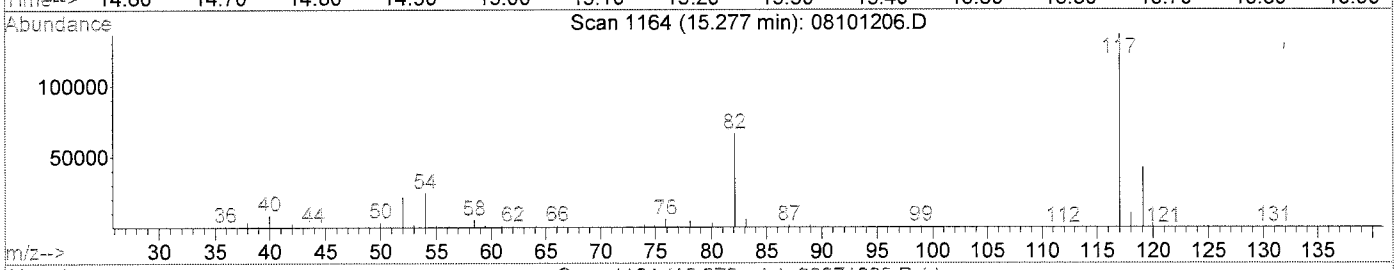
B 8/13/12
CE MM 8/13/12

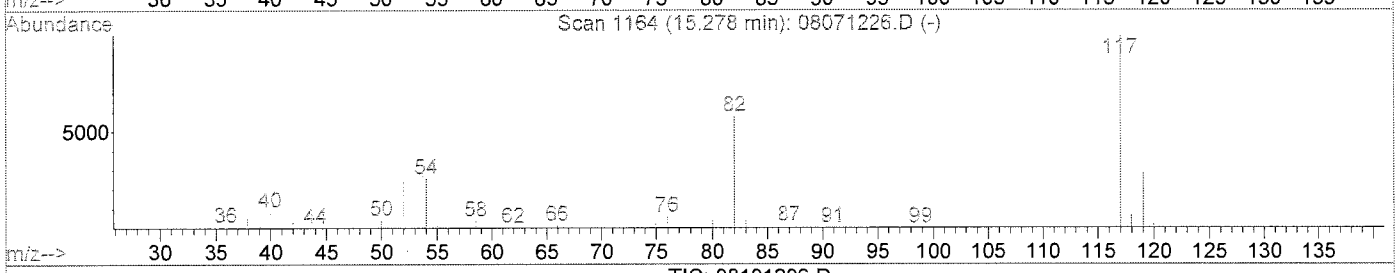
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293333

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293333m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 10.24%	
48) Toluene-d8	13.33	98	34659	2.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 9.76%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.21 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 8.84%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.87 ug/L	99
5) Dichlorodifluoromethane	4.11	85	19360	1.94 ug/L	89
6) Chloromethane	4.35	50	19442	1.89 ug/L	100
7) Vinyl Chloride	4.62	62	18295	2.26 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	2.03 ug/L	96
9) Bromomethane	5.18	94	9480m	1.81 ug/L	
10) Chloroethane	5.39	64	9047	2.02 ug/L #	88
11) Trichlorofluoromethane	6.12	101	15106	1.76 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.11 ug/L	91
14) 1,1-Dichloroethene	6.81	96	11692	2.32 ug/L #	73
15) Methylene Chloride	6.99	84	10706	2.13 ug/L #	82
16) Freon 113	7.06	101	11837	2.10 ug/L	96
17) Carbon disulfide	7.30	76	34510	1.87 ug/L #	43
18) trans-1,2-Dichloroethene	7.86	96	12894	2.36 ug/L	91
19) MTBE	8.00	73	18479	2.09 ug/L	95
20) 1,1-Dichloroethane	8.18	63	21203	2.28 ug/L	99
21) Vinyl Acetate	8.34	43	13334m	1.84 ug/L	
22) n-Hexane	8.69	86	3282	2.54 ug/L	72
23) 2-Butanone (MEK)	8.74	72	770	2.37 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.28 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	11373	2.35 ug/L	85
26) Bromochloromethane	9.12	128	4731	2.32 ug/L	94
27) Chloroform	9.17	83	18252	2.26 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.12 ug/L #	76
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.22 ug/L	94
31) Tetrahydrofuran	9.60	72	942	2.91 ug/L #	68
32) 1,2-Dichloroethane	10.01	62	9458	2.01 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	14552	2.09 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	19881	2.24 ug/L #	93
36) 1,1-Dichloropropene	10.37	75	16300	2.01 ug/L	96
37) Carbon Tetrachloride	10.60	117	11980	1.68 ug/L	94
38) Benzene	10.66	78	39625	2.11 ug/L #	89
39) Dibromomethane	11.39	93	4623	2.04 ug/L	94
40) 1,2-Dichloropropane	11.44	63	9870	2.15 ug/L #	84

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.27 ug/L		94
42)	Bromodichloromethane	11.55	83	10648	1.84 ug/L	#	98
43)	2-Chlorovinylethylether	12.09	63	3450	2.67 ug/L	#	89
44)	cis-1,3-Dichloropropene	12.38	75	12256	2.05 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	1.78 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.95 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	5725	2.16 ug/L	#	88
49)	Toluene	13.42	92	23415	2.33 ug/L	#	97
51)	1,3-Dichloropropane	13.49	76	9548	1.91 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.69 ug/L	#	94
53)	Dibromochloromethane	13.85	129	6760	1.86 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.28 ug/L		94
55)	Tetrachloroethene	14.41	164	9734	2.02 ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.95 ug/L		95
57)	Chlorobenzene	15.33	112	23737	2.31 ug/L		99
58)	Ethylbenzene	15.58	91	37962	2.02 ug/L		94
59)	m,p-Xylenes	15.85	106	14006	2.05 ug/L		99
60)	Styrene	16.30	104	19695	2.21 ug/L		93
61)	o-Xylene	16.40	106	12771	2.06 ug/L		98
64)	Bromoform	16.01	173	3623	1.87 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	2.10 ug/L	#	98
66)	1,2,3-Trichloropropane	16.59	110	1480	1.84 ug/L		92
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	3.09 ug/L	#	80
68)	Isopropylbenzene	16.90	105	35158	2.14 ug/L		100
69)	Bromobenzene	17.24	156	8795	2.07 ug/L		92
70)	n-Propylbenzene	17.51	91	42873	2.06 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.13 ug/L		92
72)	4-Chlorotoluene	17.76	91	23403	2.04 ug/L		95
73)	1,3,5-Trimethylbenzene	17.91	105	28001	2.19 ug/L		98
74)	tert-Butylbenzene	18.31	119	24990	2.16 ug/L		95
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.23 ug/L		100
76)	sec-Butylbenzene	18.61	105	41333	2.37 ug/L		100
77)	1,3-Dichlorobenzene	18.72	146	15215	2.12 ug/L		99
78)	1,4-Dichlorobenzene	18.81	146	15598	2.30 ug/L		94
79)	p-Isopropyltoluene	18.86	119	30026	2.30 ug/L		96
80)	1,2-Dichlorobenzene	19.27	146	12959	2.22 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	2.37 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	0.99 ug/L		95
83)	1,2,4-Trichlorobenzene	21.50	180	7014	2.27 ug/L		95
84)	Napthalene	21.83	128	10482	2.21 ug/L		99
85)	Hexachlorobutadiene	21.89	225	5525	1.67 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	5851	2.33 ug/L		98

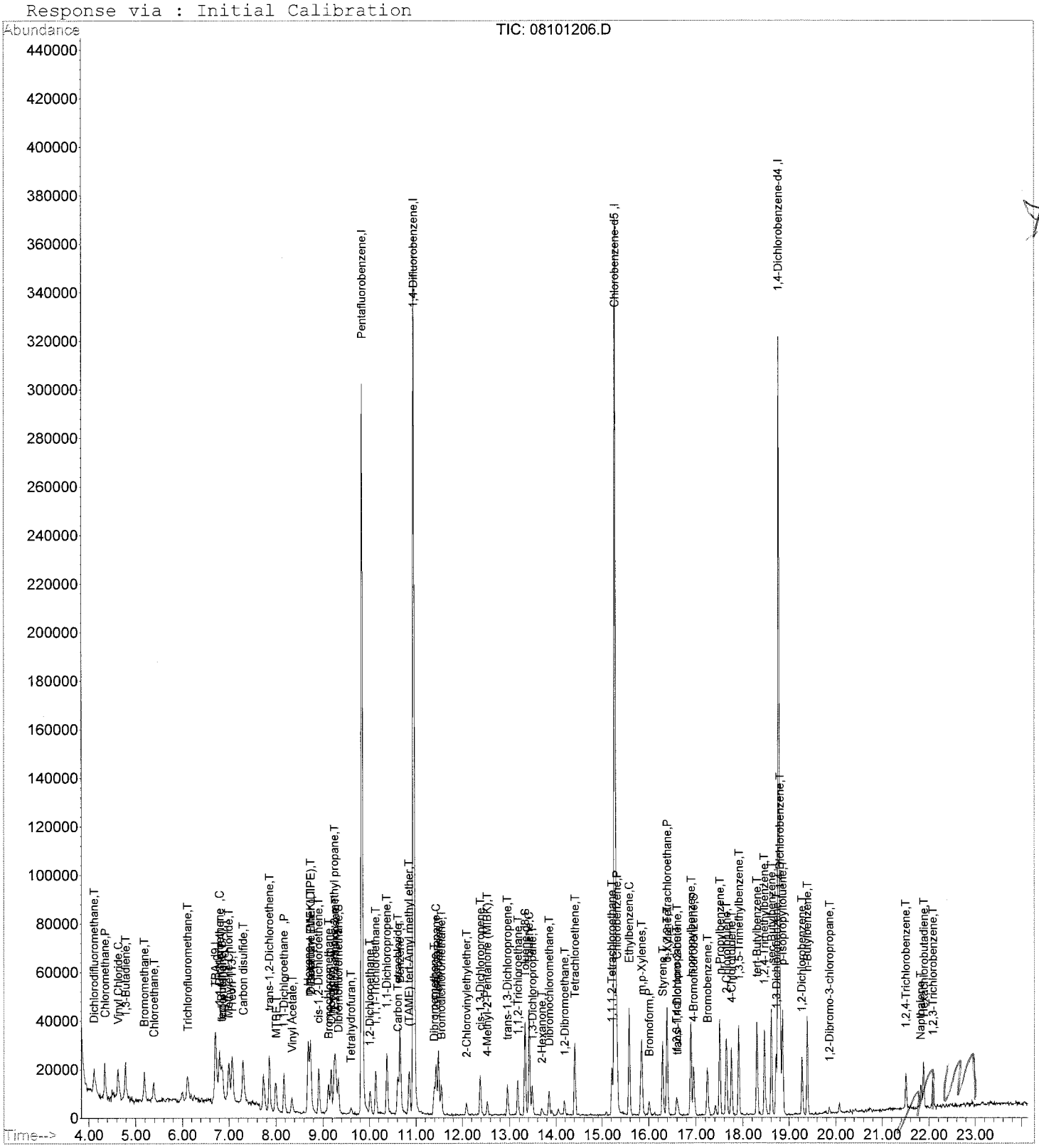
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 080712.M Fri Aug 10 09:46:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

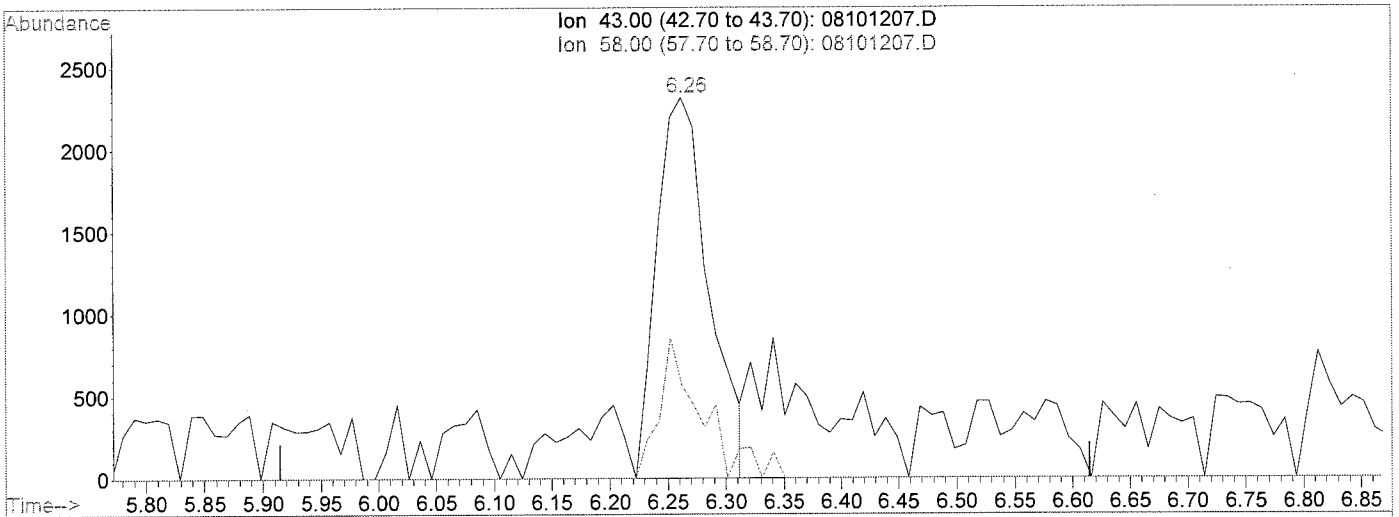
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

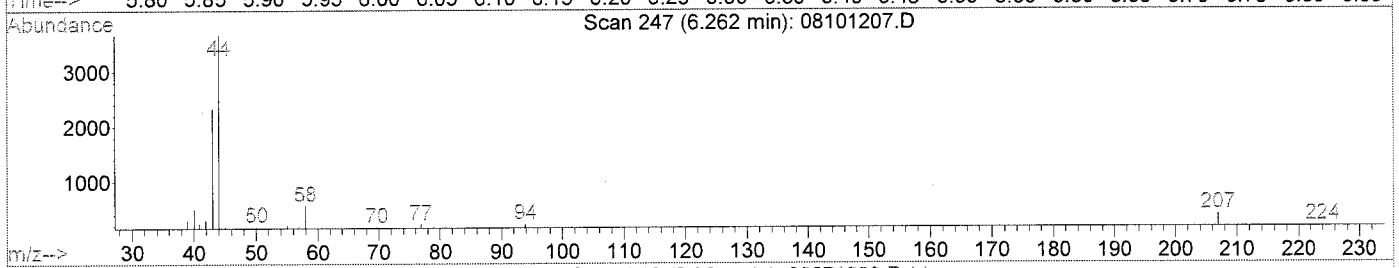


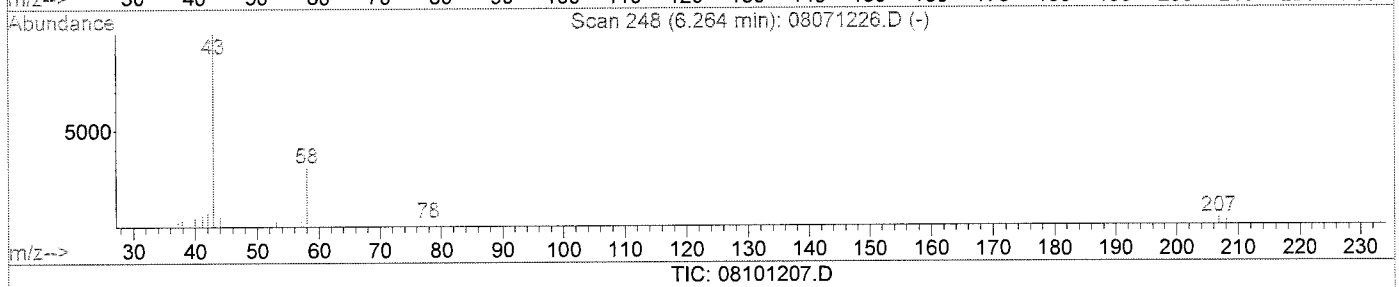
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:38 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.86ug/L

response 7175

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

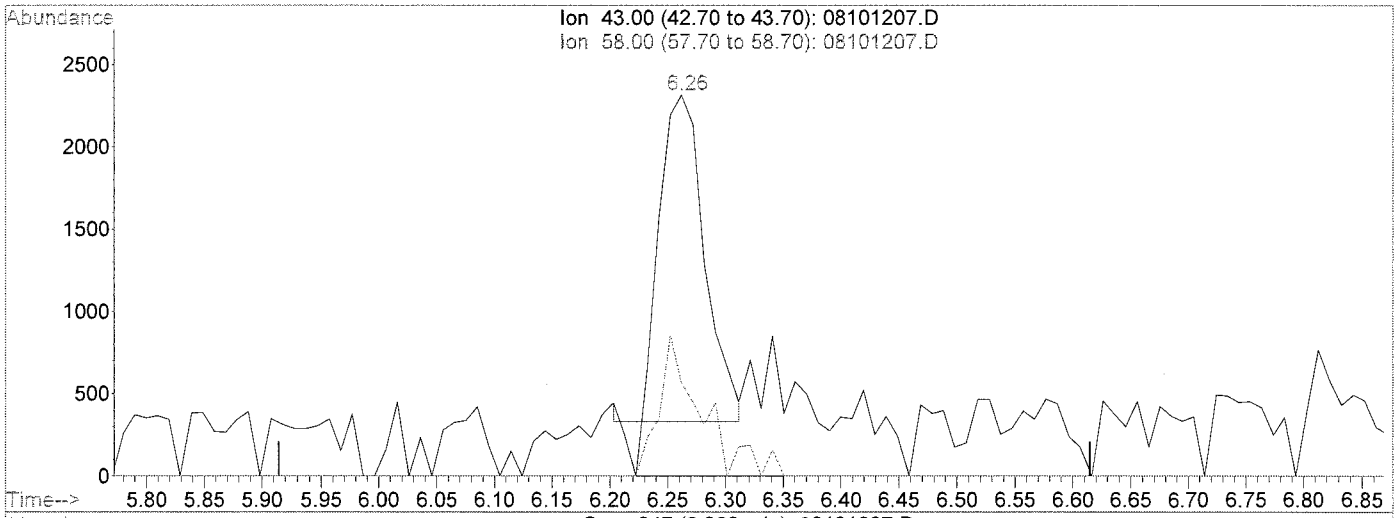
B 8/13/12

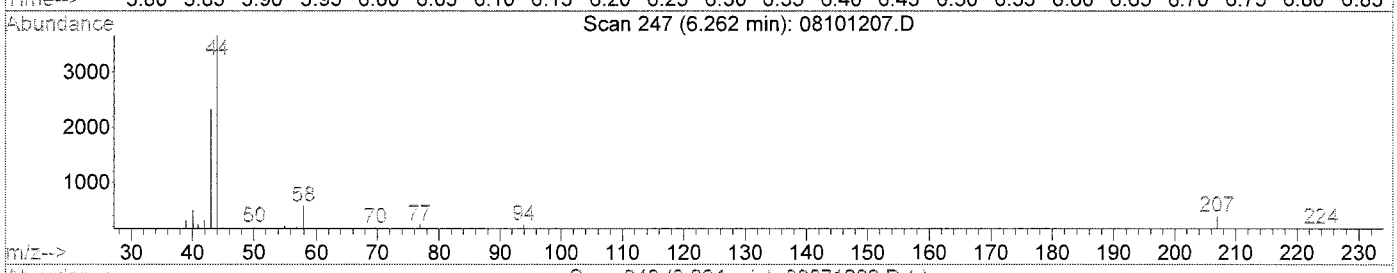
BL MM 8/13/12

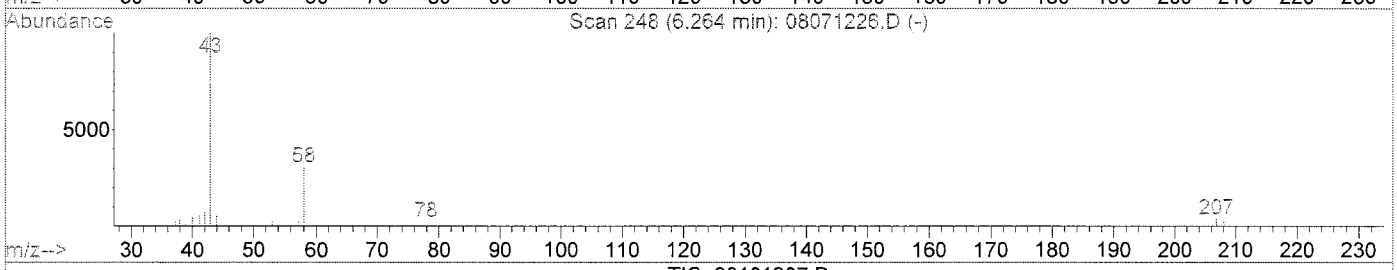
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 4.95ug/L m

response 5171

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	38.70#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	5.77 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.08%	
48) Toluene-d8	13.32	98	72498	5.75 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.00%	
62) 4-Bromofluorobenzene	16.95	95	19393	5.25 ug/L	0.00
Spiked Amount 25.000			Recovery =	21.00%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.80 ug/L #	93
5) Dichlorodifluoromethane	4.12	85	50503	5.56 ug/L	96
6) Chloromethane	4.35	50	49357	5.27 ug/L	99
7) Vinyl Chloride	4.63	62	49265	6.67 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.88 ug/L	89
9) Bromomethane	5.19	94	30021	6.31 ug/L	93
10) Chloroethane	5.38	64	23447	5.74 ug/L	95
11) Trichlorofluoromethane	6.11	101	40948	5.24 ug/L	98
12) Acetone	6.26	43	5171m	4.95 ug/L	
13) Iodomethane	6.86	142	44247	5.29 ug/L	95
14) 1,1-Dichloroethene	6.80	96	26139	5.70 ug/L #	78
15) Methylene Chloride	7.00	84	23231	5.08 ug/L	91
16) Freon 113	7.08	101	29531	5.74 ug/L	98
17) Carbon disulfide	7.30	76	90258	5.36 ug/L	95
18) trans-1,2-Dichloroethene	7.87	96	30944	6.23 ug/L	89
19) MTBE	8.00	73	42861	5.31 ug/L	98
20) 1,1-Dichloroethane	8.18	63	50278	5.93 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.85 ug/L	97
22) n-Hexane	8.68	86	8584	7.29 ug/L	62
23) 2-Butanone (MEK)	8.73	72	1806	6.11 ug/L #	37
24) Diisopropyl Ether (DIPE)	8.74	45	78319	5.44 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	27851	6.31 ug/L	89
26) Bromochloromethane	9.11	128	10529	5.67 ug/L	94
27) Chloroform	9.17	83	43865	5.97 ug/L	94
28) 2,2-Dichloropropane	9.27	77	32662	5.28 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	5.22 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	5.02 ug/L	94
32) 1,2-Dichloroethane	10.01	62	19485	4.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.62 ug/L	91
34) (TAME) tert-Amyl methyl et	10.86	73	44807	5.54 ug/L	92
36) 1,1-Dichloropropene	10.37	75	40445	5.62 ug/L	98
37) Carbon Tetrachloride	10.61	117	30853	4.88 ug/L	95
38) Benzene	10.66	78	91136	5.46 ug/L #	90
39) Dibromomethane	11.39	93	10657	5.28 ug/L	89
40) 1,2-Dichloropropane	11.44	63	21430	5.25 ug/L #	91

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	27389	5.87 ug/L	97
42) Bromodichloromethane	11.55	83	25974	5.06 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	6853	5.95 ug/L #	92
44) cis-1,3-Dichloropropene	12.39	75	28675	5.40 ug/L #	85
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.03 ug/L	98
46) trans-1,3-Dichloropropene	12.96	75	21114	4.70 ug/L #	85
47) 1,1,2-Trichloroethane	13.17	97	12837	5.46 ug/L #	85
49) Toluene	13.42	92	54238	6.09 ug/L	96
51) 1,3-Dichloropropane	13.49	76	23699	5.47 ug/L	96
52) 2-Hexanone	13.69	43	8850	4.59 ug/L	98
53) Dibromochloromethane	13.86	129	16099	5.12 ug/L	100
54) 1,2-Dibromoethane	14.19	107	13554	5.50 ug/L	96
55) Tetrachloroethene	14.41	164	23934	5.75 ug/L	94
56) 1,1,1,2-Tetrachloroethane	15.21	131	18257	5.33 ug/L	95
57) Chlorobenzene	15.32	112	54536	6.13 ug/L	94
58) Ethylbenzene	15.59	91	93388	5.75 ug/L	96
59) m,p-Xylenes	15.85	106	35706	6.06 ug/L	91
60) Styrene	16.30	104	44417	5.76 ug/L #	91
61) o-Xylene	16.39	106	32546	6.07 ug/L	93
64) Bromoform	16.01	173	9250	4.98 ug/L	87
65) 1,1,2,2-Tetrachloroethane	16.39	83	14360	5.22 ug/L #	98
66) 1,2,3-Trichloropropane	16.59	110	3714	5.14 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.62	53	3143	5.98 ug/L #	93
68) Isopropylbenzene	16.90	105	84596	5.72 ug/L	97
69) Bromobenzene	17.25	156	19667	5.16 ug/L	98
70) n-Propylbenzene	17.50	91	106364	5.69 ug/L	97
71) 2-Chlorotoluene	17.64	91	57156	5.26 ug/L	94
72) 4-Chlorotoluene	17.75	91	57414	5.56 ug/L	96
73) 1,3,5-Trimethylbenzene	17.91	105	65369	5.68 ug/L	93
74) tert-Butylbenzene	18.30	119	58429	5.64 ug/L	97
75) 1,2,4-Trimethylbenzene	18.46	105	63046	5.83 ug/L	96
76) sec-Butylbenzene	18.61	105	99506	6.34 ug/L	98
77) 1,3-Dichlorobenzene	18.71	146	37917	5.87 ug/L	95
78) 1,4-Dichlorobenzene	18.81	146	35468	5.82 ug/L	99
79) p-Isopropyltoluene	18.86	119	72640	6.20 ug/L	94
80) 1,2-Dichlorobenzene	19.28	146	30287	5.78 ug/L	99
81) n-Butylbenzene	19.39	91	70667	6.52 ug/L	97
82) 1,2-Dibromo-3-chloropropan	19.87	75	1150	2.73 ug/L #	34
83) 1,2,4-Trichlorobenzene	21.51	180	17519	6.31 ug/L	98
84) Napthalene	21.82	128	26687	6.26 ug/L	96
85) Hexachlorobutadiene	21.88	225	14706	4.54 ug/L	88
86) 1,2,3-Trichlorobenzene	22.08	180	14724	6.68 ug/L	99

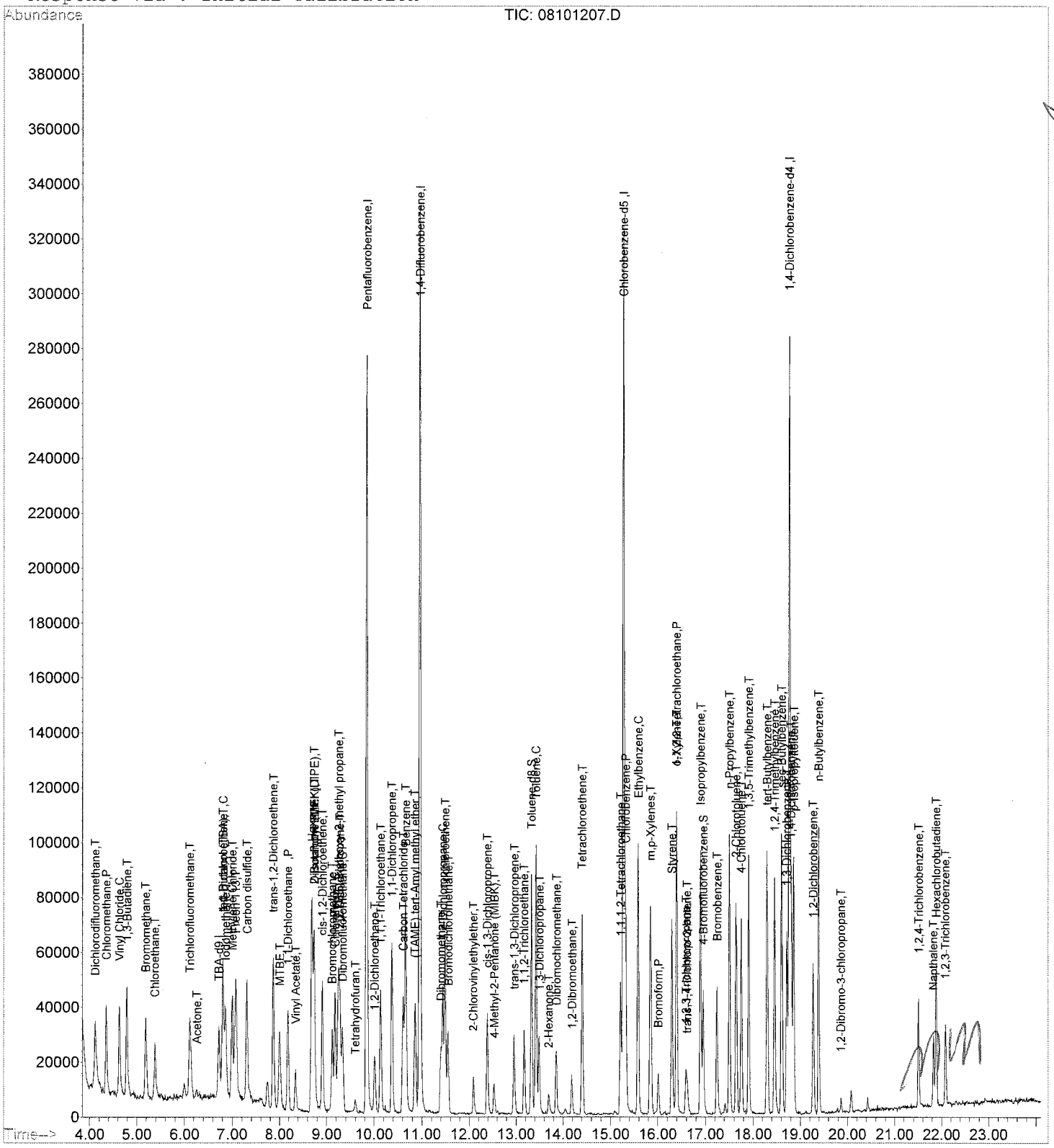
MM

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

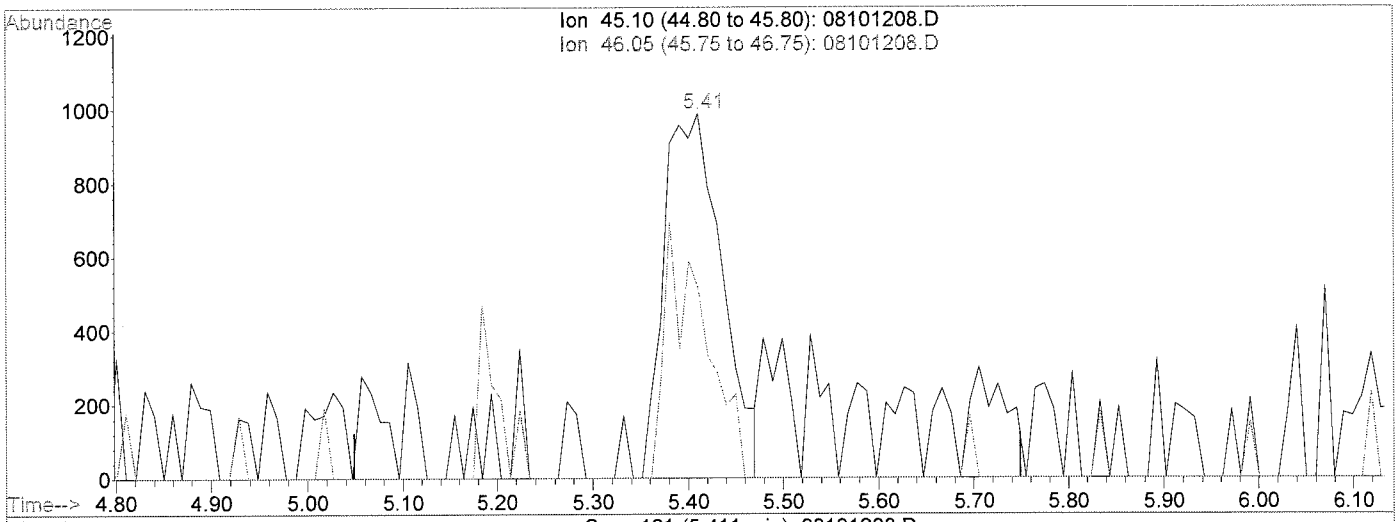
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

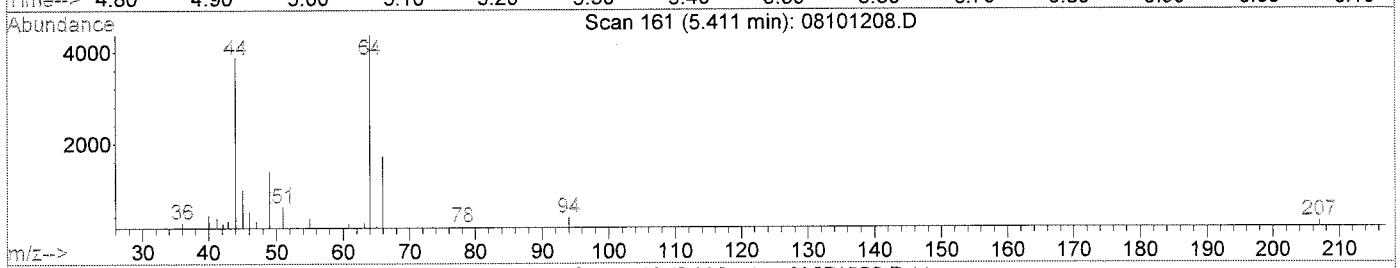


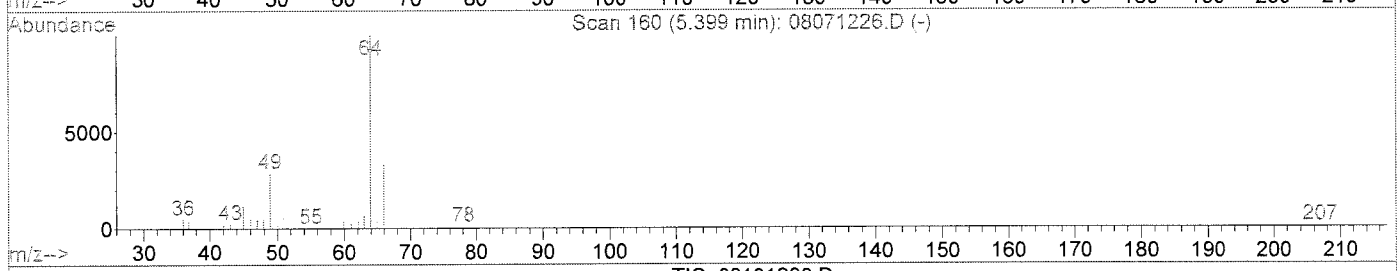
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 112.69ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

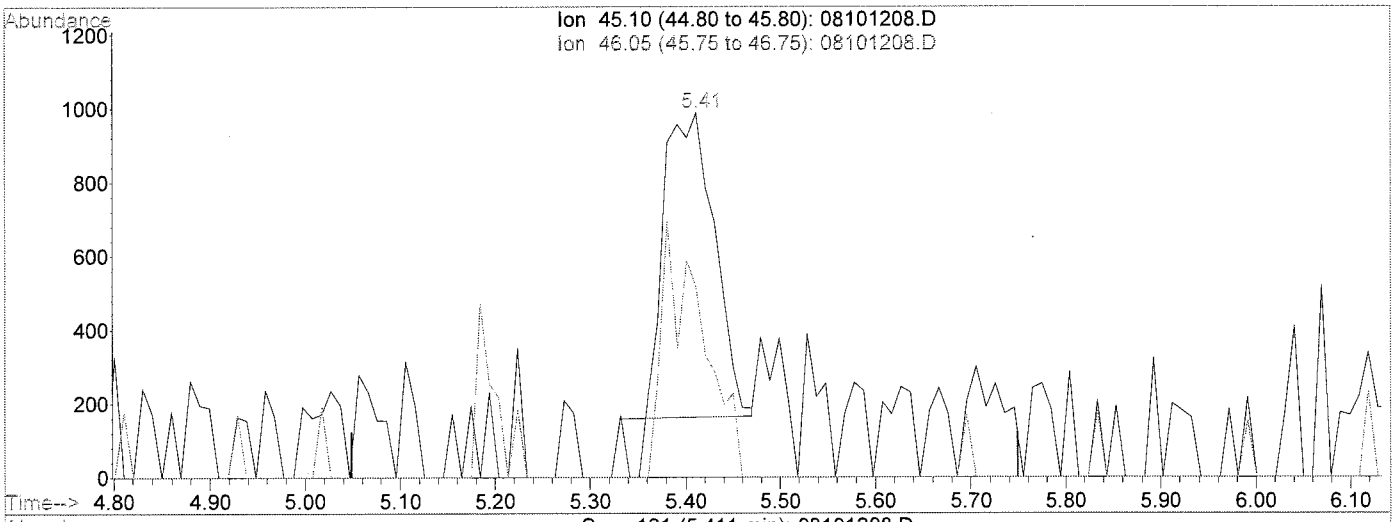
BL

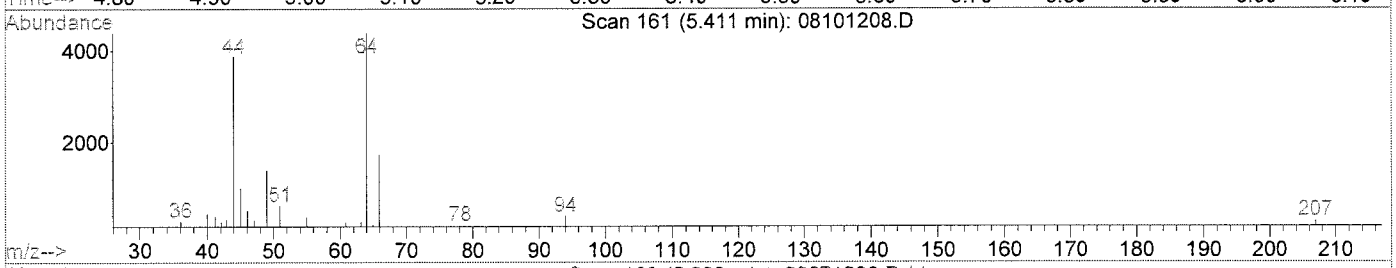
MM 8/13/12

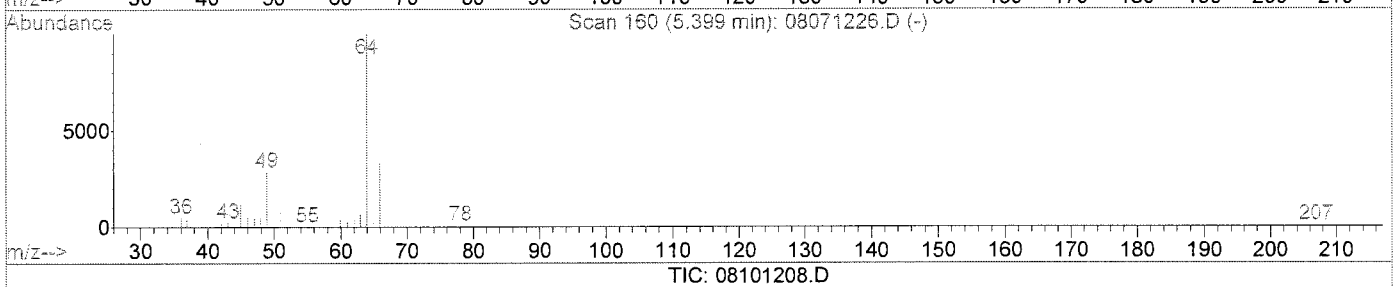
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 76.46ug/L m

response 2824

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	71.99#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

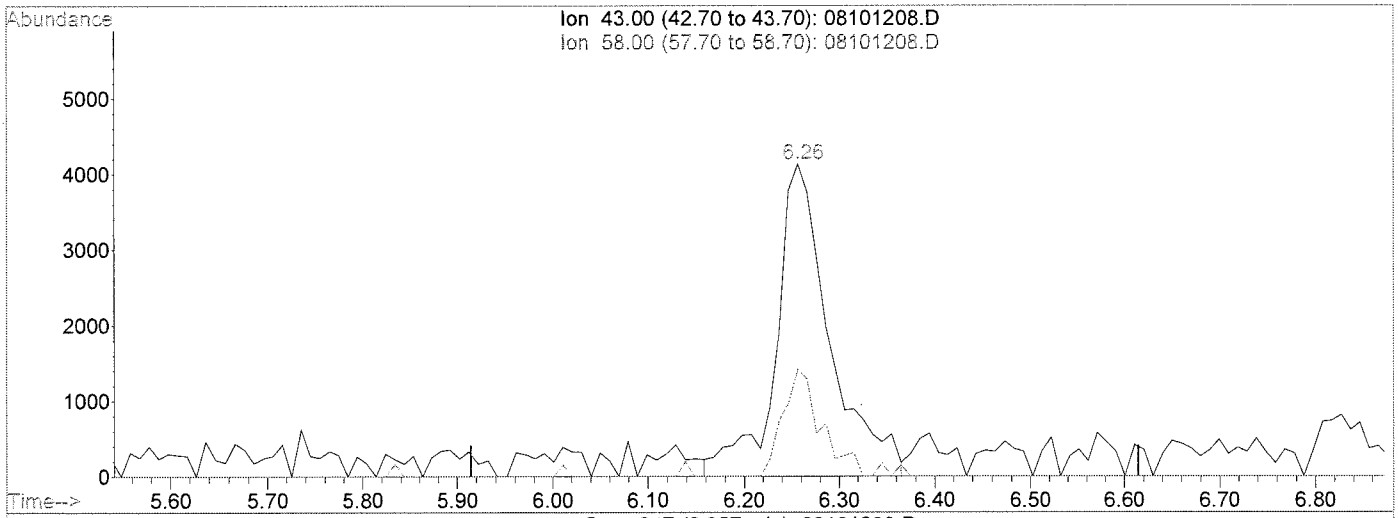
A

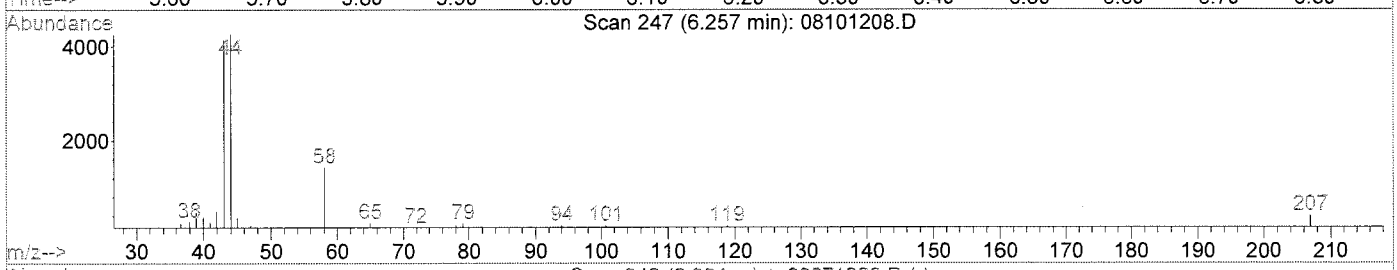
MM 8/13/12

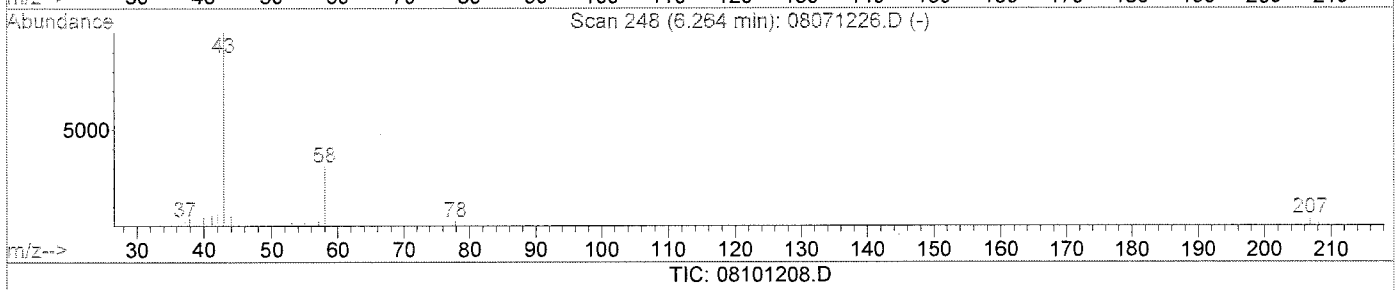
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 15.14ug/L

response 16281

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	24.34
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

IB

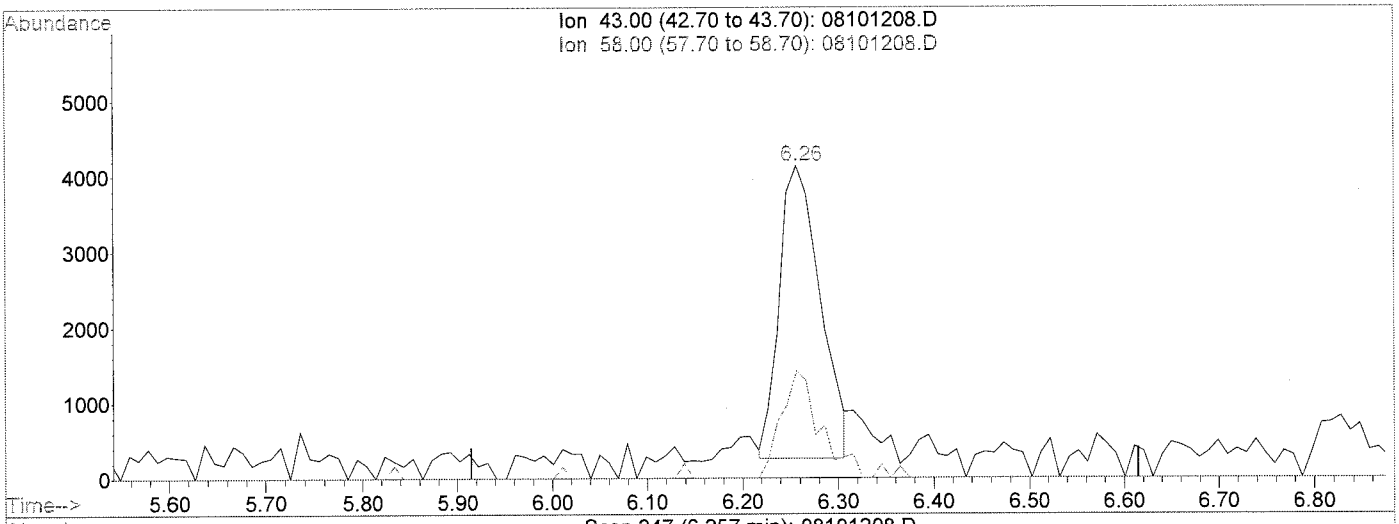
BL

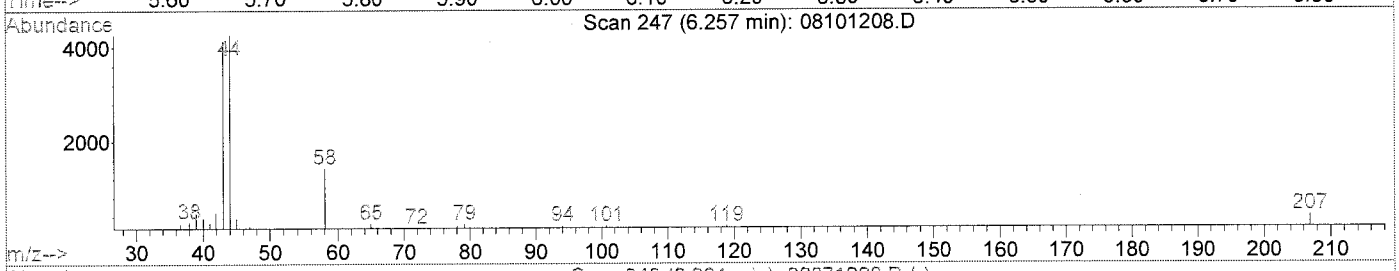
MM 8/13/12

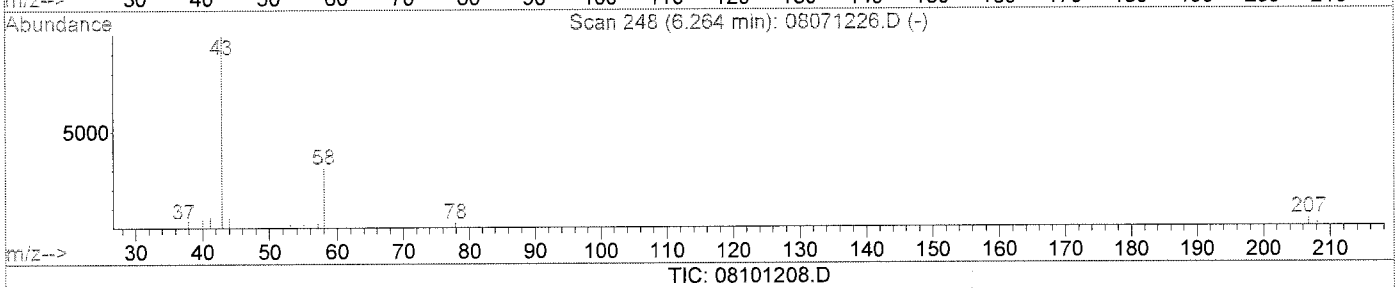
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 10.63ug/L m

response 11426

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	34.68#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	12.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	48.00%	
48) Toluene-d8	13.33	98	151060	11.69 ug/L	0.00
Spiked Amount 25.000			Recovery =	46.76%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	47.12%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	2824m	76.46 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	48.06 ug/L #	94
5) Dichlorodifluoromethane	4.11	85	99359	10.63 ug/L	98
6) Chloromethane	4.35	50	99085	10.28 ug/L	98
7) Vinyl Chloride	4.63	62	94725	12.47 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	11.54 ug/L	94
9) Bromomethane	5.18	94	57814	11.81 ug/L	99
10) Chloroethane	5.38	64	44676	10.64 ug/L	95
11) Trichlorofluoromethane	6.11	101	81825	10.18 ug/L	97
12) Acetone	6.26	43	11426m	10.63 ug/L	
13) Iodomethane	6.87	142	92968	10.81 ug/L	94
14) 1,1-Dichloroethene	6.81	96	53536	11.34 ug/L #	76
15) Methylene Chloride	6.99	84	48433	10.29 ug/L	87
16) Freon 113	7.07	101	57249	10.81 ug/L	98
17) Carbon disulfide	7.30	76	183724	10.61 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	63718	12.47 ug/L	90
19) MTBE	8.00	73	90114	10.86 ug/L	97
20) 1,1-Dichloroethane	8.17	63	99374	11.40 ug/L	98
21) Vinyl Acetate	8.34	43	68389	10.07 ug/L	98
22) n-Hexane	8.69	86	15274	12.60 ug/L	89
23) 2-Butanone (MEK)	8.74	72	3909	12.86 ug/L #	54
24) Diisopropyl Ether (DIPE)	8.74	45	169576	11.46 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	59154	13.03 ug/L	87
26) Bromochloromethane	9.12	128	23711	12.41 ug/L	86
27) Chloroform	9.18	83	88095	11.66 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.41 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	11.10 ug/L	95
31) Tetrahydrofuran	9.59	72	3578	11.79 ug/L	86
32) 1,2-Dichloroethane	10.01	62	41085	9.31 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	75517	11.56 ug/L	94
34) (TAME) tert-Amyl methyl et	10.85	73	91702	11.02 ug/L	93
36) 1,1-Dichloropropene	10.38	75	86510	11.72 ug/L	97
37) Carbon Tetrachloride	10.61	117	64587	9.98 ug/L	96
38) Benzene	10.66	78	192601	11.26 ug/L	93
39) Dibromomethane	11.39	93	22947	11.10 ug/L	90
40) 1,2-Dichloropropane	11.43	63	45818	10.96 ug/L #	91

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	11.21 ug/L		94
42)	Bromodichloromethane	11.55	83	54093	10.29 ug/L		97
43)	2-Chlorovinylethylether	12.09	63	17562	14.63 ug/L	#	93
44)	cis-1,3-Dichloropropene	12.38	75	62172	11.41 ug/L	#	85
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	8.91 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	46129	9.67 ug/L	#	87
47)	1,1,2-Trichloroethane	13.17	97	27529	11.42 ug/L	#	89
49)	Toluene	13.42	92	109934	12.04 ug/L		98
51)	1,3-Dichloropropane	13.49	76	47813	10.89 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.56 ug/L	#	93
53)	Dibromochloromethane	13.85	129	35116	11.02 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	11.85 ug/L		97
55)	Tetrachloroethene	14.41	164	47547	11.26 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	11.04 ug/L		97
57)	Chlorobenzene	15.32	112	113987	12.63 ug/L		93
58)	Ethylbenzene	15.58	91	196709	11.95 ug/L		96
59)	m,p-Xylenes	15.85	106	77315	12.93 ug/L		90
60)	Styrene	16.30	104	101282	12.96 ug/L	#	92
61)	o-Xylene	16.40	106	72024	13.24 ug/L		91
64)	Bromoform	16.00	173	18119	9.53 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	12.08 ug/L	#	94
66)	1,2,3-Trichloropropane	16.59	110	7207	10.03 ug/L		95
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	10.45 ug/L	#	93
68)	Isopropylbenzene	16.90	105	174169	11.85 ug/L		100
69)	Bromobenzene	17.24	156	41493	10.93 ug/L		94
70)	n-Propylbenzene	17.51	91	220385	11.84 ug/L		99
71)	2-Chlorotoluene	17.65	91	118995	11.01 ug/L		99
72)	4-Chlorotoluene	17.75	91	114947	11.19 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	140555	12.28 ug/L		96
74)	tert-Butylbenzene	18.31	119	125080	12.13 ug/L		94
75)	1,2,4-Trimethylbenzene	18.46	105	130209	12.10 ug/L		93
76)	sec-Butylbenzene	18.61	105	203460	13.03 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	12.24 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	12.40 ug/L		98
79)	p-Isopropyltoluene	18.86	119	152942	13.13 ug/L		96
80)	1,2-Dichlorobenzene	19.28	146	63302	12.15 ug/L		97
81)	n-Butylbenzene	19.39	91	148822	13.81 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	9.29 ug/L	#	57
83)	1,2,4-Trichlorobenzene	21.50	180	37943	13.74 ug/L		97
84)	Napthalene	21.83	128	59549	14.05 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	8.23 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	14.08 ug/L		97

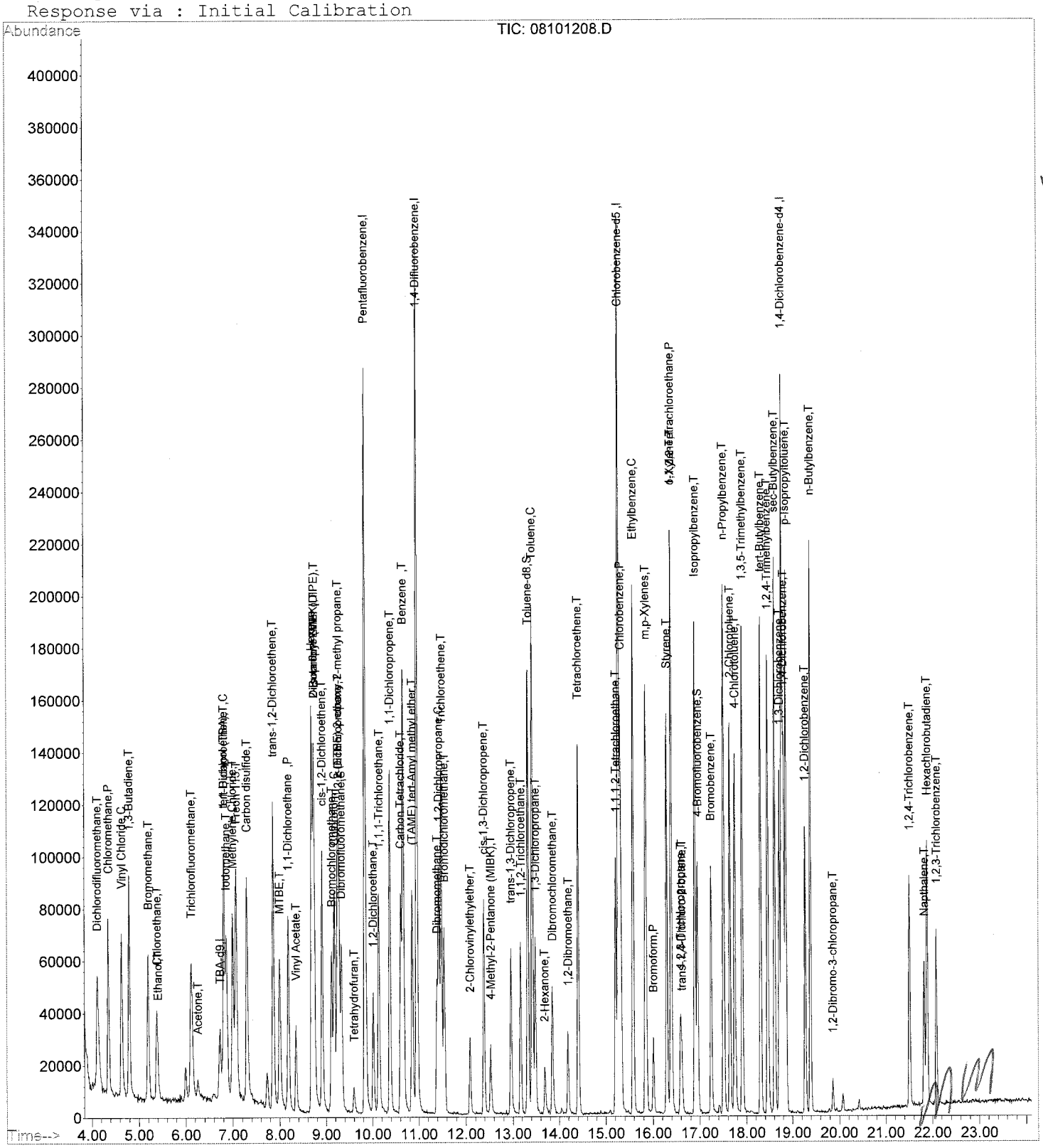
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

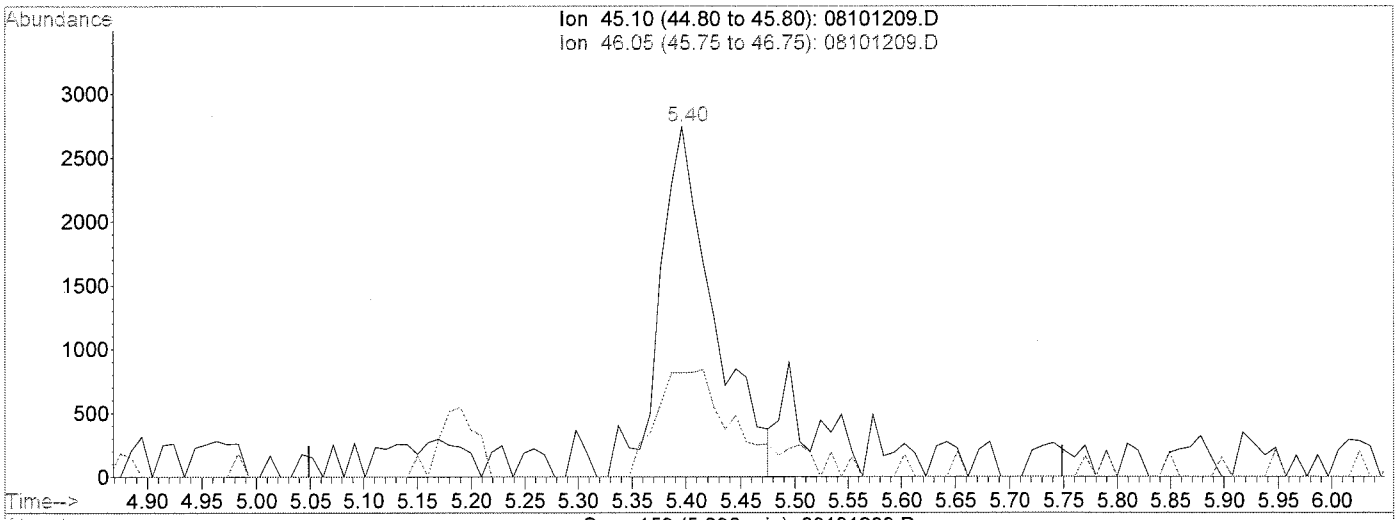
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

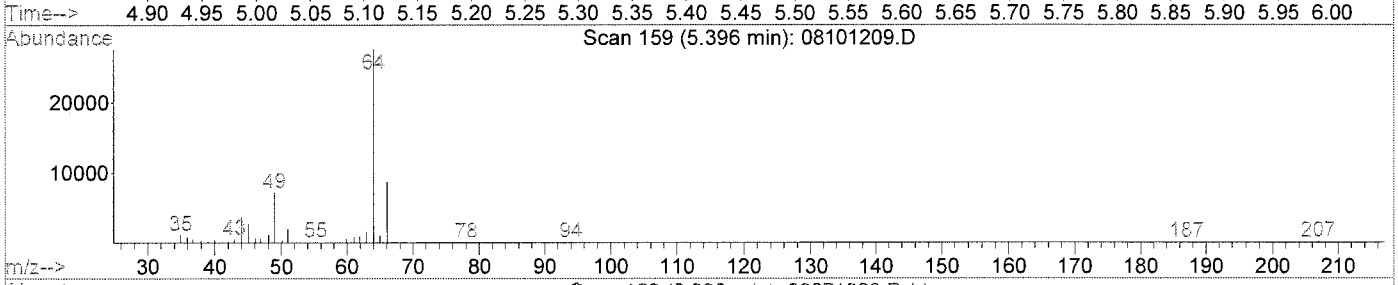


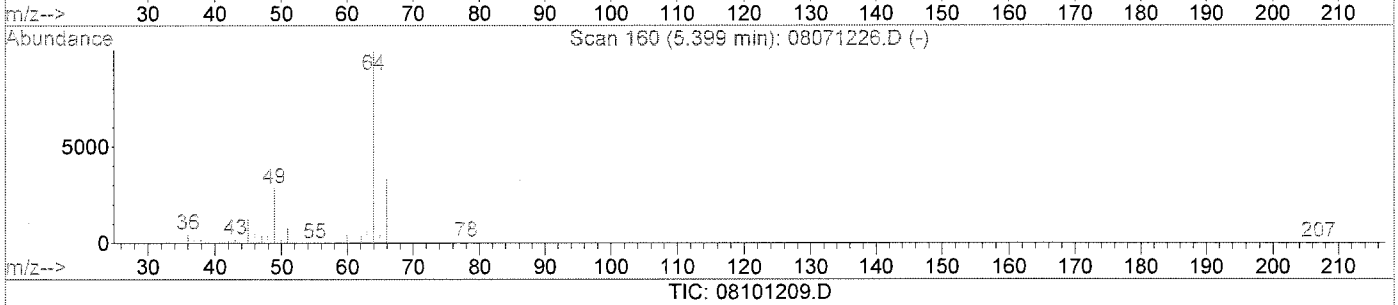
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 267.40ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

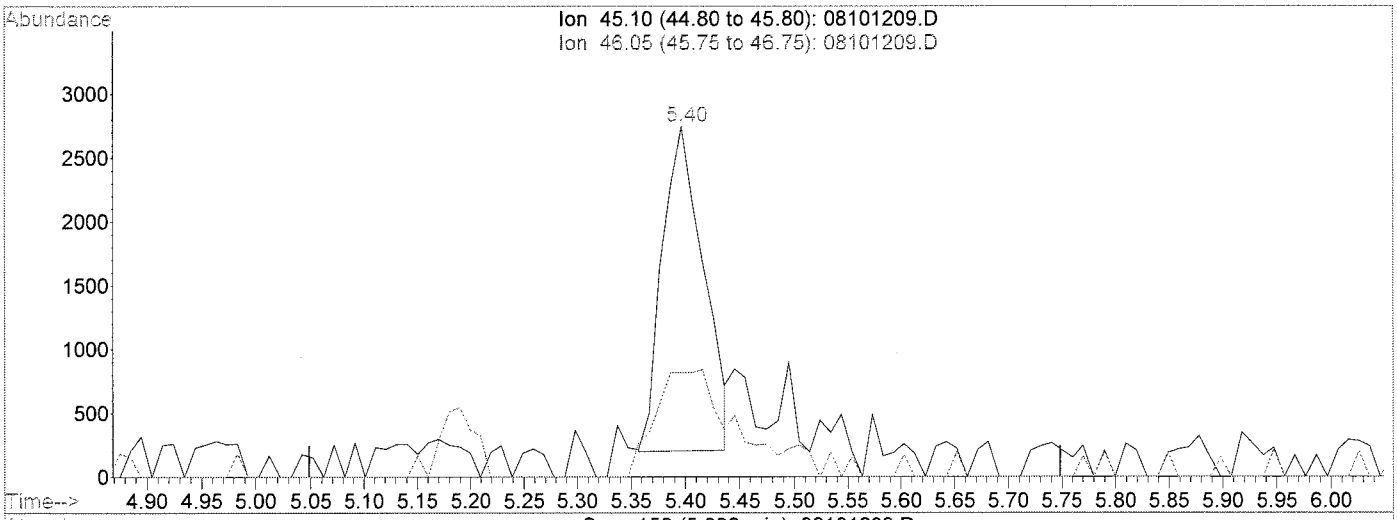
BL

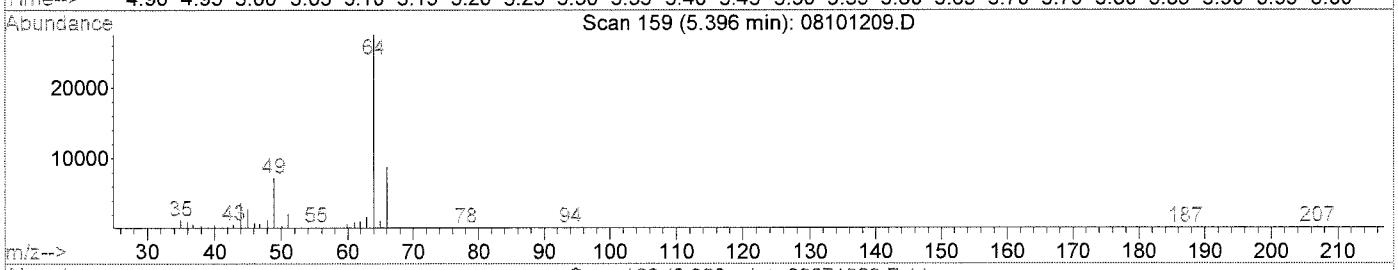
MM 8/20/12

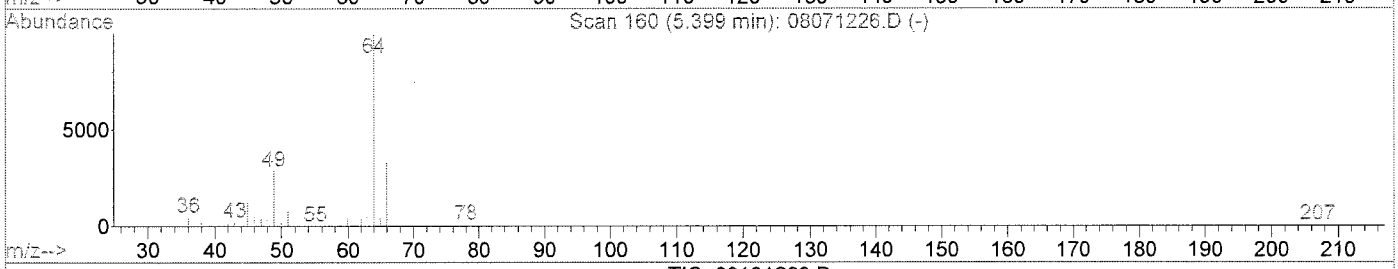
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(2) Ethanol (T)

5.40min 187.38ug/L m

response 6700

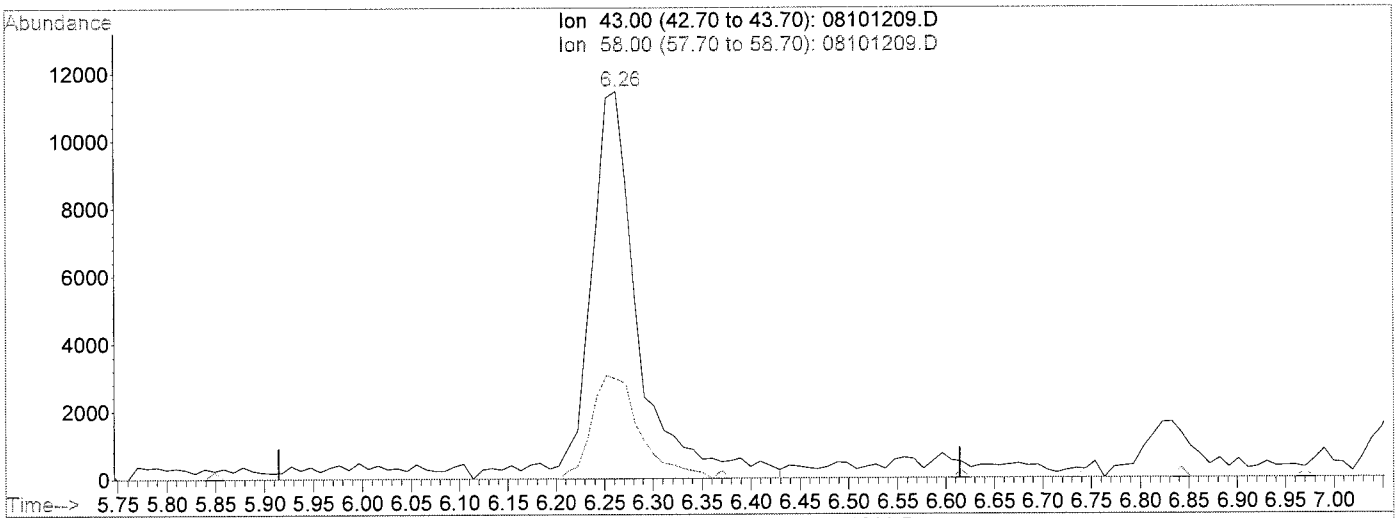
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	59.94#
0.00	0.00	0.00
0.00	0.00	0.00

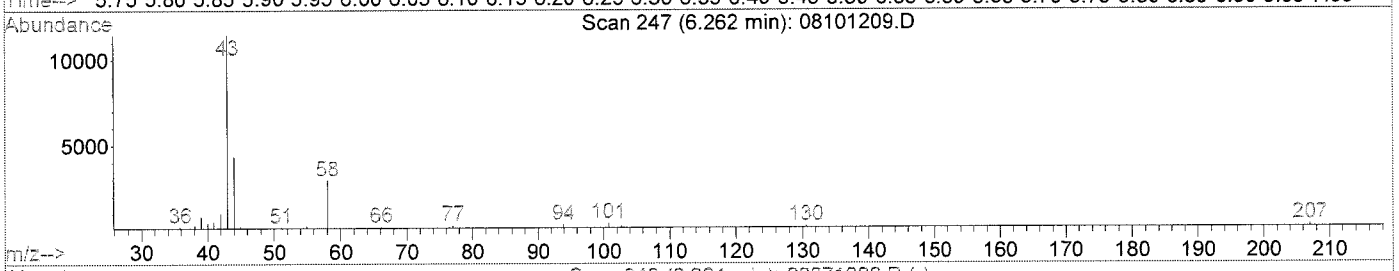
MM 8/13/12

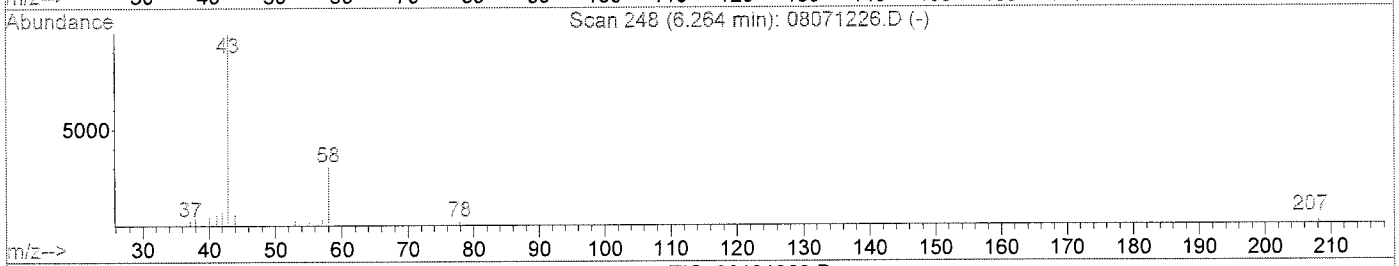
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 35.00ug/L

response 39847

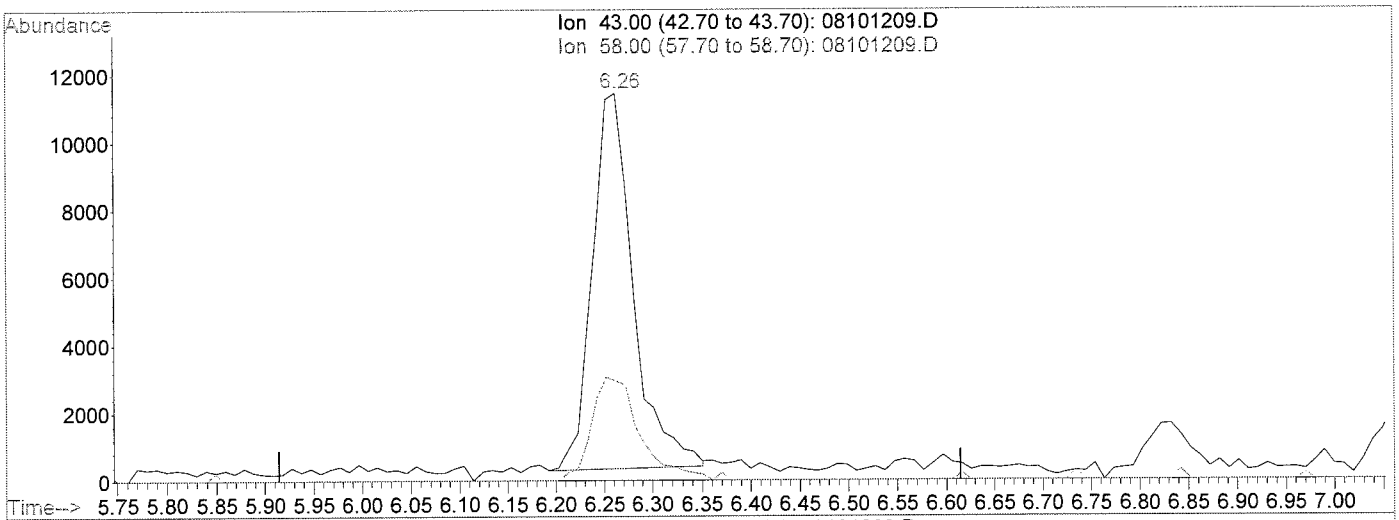
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

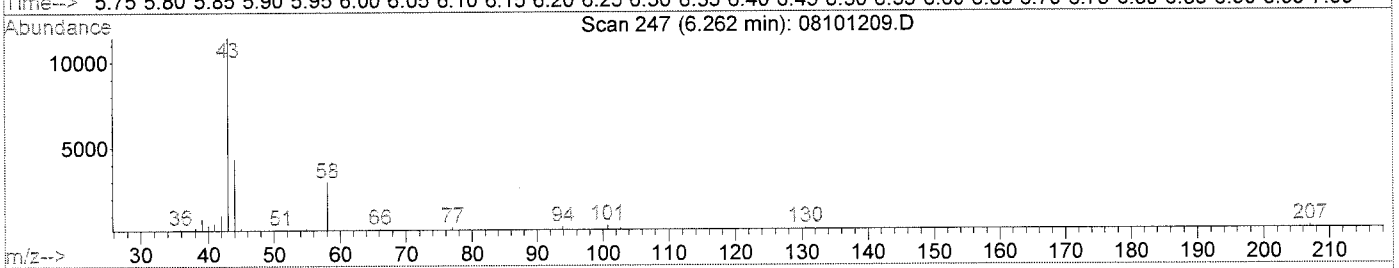
BL MM 8/13/12

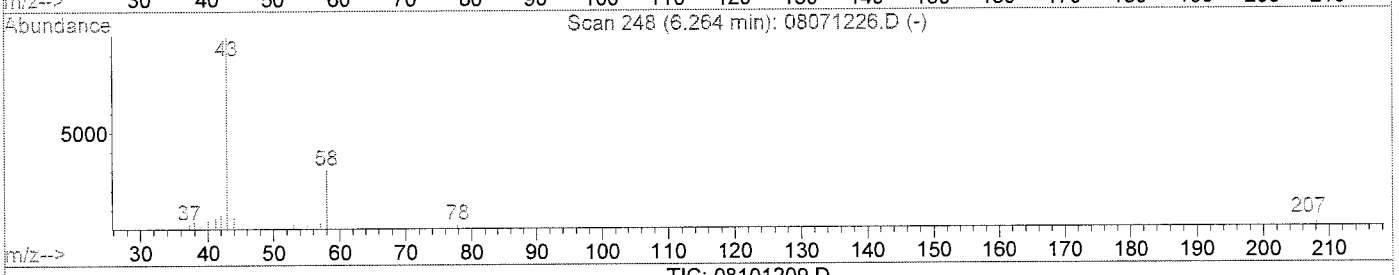
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(12) Acetone (T)

6.26min 28.81ug/L m

response 32794

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.37#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	28.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.68%	
48) Toluene-d8	13.32	98	387904	27.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.48%	
62) 4-Bromofluorobenzene	16.95	95	104965	26.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.44%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6700m	187.38 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	129.76 ug/L	99
5) Dichlorodifluoromethane	4.11	85	259999	26.28 ug/L	98
6) Chloromethane	4.35	50	249108	24.41 ug/L	99
7) Vinyl Chloride	4.63	62	234281	29.14 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	27.33 ug/L	91
9) Bromomethane	5.19	94	136870	26.41 ug/L	97
10) Chloroethane	5.38	64	115028	25.87 ug/L	97
11) Trichlorofluoromethane	6.11	101	203736	23.94 ug/L	99
12) Acetone	6.26	43	32794m	28.81 ug/L	
13) Iodomethane	6.86	142	233911	25.68 ug/L	93
14) 1,1-Dichloroethene	6.81	96	132114	26.43 ug/L #	78
15) Methylene Chloride	7.00	84	120484	24.17 ug/L	87
16) Freon 113	7.07	101	146166	26.07 ug/L	97
17) Carbon disulfide	7.29	76	465019	25.36 ug/L #	93
18) trans-1,2-Dichloroethene	7.87	96	156993	29.02 ug/L	90
19) MTBE	8.00	73	227954	25.95 ug/L	99
20) 1,1-Dichloroethane	8.18	63	249879	27.07 ug/L	98
21) Vinyl Acetate	8.34	43	179194	24.91 ug/L #	95
22) n-Hexane	8.69	86	38470	29.98 ug/L	88
23) 2-Butanone (MEK)	8.73	72	10850	33.72 ug/L #	7
24) Diisopropyl Ether (DIPE)	8.74	45	414456	26.45 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	143999	29.97 ug/L	89
26) Bromochloromethane	9.11	128	58383	28.86 ug/L	90
27) Chloroform	9.17	83	223471	27.92 ug/L #	95
28) 2,2-Dichloropropane	9.27	77	163680	24.31 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	25.69 ug/L	96
31) Tetrahydrofuran	9.60	72	8067	25.10 ug/L	90
32) 1,2-Dichloroethane	10.01	62	105341	22.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	190354	27.51 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	241539	27.42 ug/L	92
36) 1,1-Dichloropropene	10.37	75	205389	25.84 ug/L	95
37) Carbon Tetrachloride	10.61	117	164083	23.54 ug/L	99
38) Benzene	10.66	78	497157	26.99 ug/L #	91
39) Dibromomethane	11.39	93	58226	26.16 ug/L	95
40) 1,2-Dichloropropane	11.44	63	118189	26.25 ug/L #	88

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	140936	27.36 ug/L		97
42)	Bromodichloromethane	11.55	83	140799	24.87 ug/L		96
43)	2-Chlorovinylethylether	12.08	63	44348	33.04 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	164809	28.10 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	66778	20.37 ug/L		96
46)	trans-1,3-Dichloropropene	12.95	75	123650	23.61 ug/L	#	84
47)	1,1,2-Trichloroethane	13.17	97	72275	27.84 ug/L	#	88
49)	Toluene	13.42	92	282282	28.72 ug/L		99
51)	1,3-Dichloropropane	13.49	76	124333	26.67 ug/L		100
52)	2-Hexanone	13.69	43	53049	25.56 ug/L	#	92
53)	Dibromochloromethane	13.86	129	92023	27.19 ug/L		100
54)	1,2-Dibromoethane	14.18	107	76183	28.73 ug/L		99
55)	Tetrachloroethene	14.41	164	125279	27.94 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	102745	27.86 ug/L		99
57)	Chlorobenzene	15.32	112	287853	30.02 ug/L		93
58)	Ethylbenzene	15.59	91	512045	29.28 ug/L		96
59)	m,p-Xylenes	15.84	106	195904	30.85 ug/L		92
60)	Styrene	16.29	104	271388	32.70 ug/L	#	91
61)	o-Xylene	16.39	106	178278	30.86 ug/L		94
64)	Bromoform	16.01	173	52543	22.91 ug/L		95
65)	1,1,2,2-Tetrachloroethane	16.39	83	80822	25.58 ug/L		99
66)	1,2,3-Trichloropropane	16.59	110	19363	23.33 ug/L		97
67)	trans-1,4-Dichloro-2-buten	16.62	53	18848	22.67 ug/L	#	87
68)	Isopropylbenzene	16.89	105	450007	26.49 ug/L		99
69)	Bromobenzene	17.25	156	113170	25.81 ug/L		91
70)	n-Propylbenzene	17.50	91	579703	26.97 ug/L		98
71)	2-Chlorotoluene	17.64	91	304359	24.38 ug/L		95
72)	4-Chlorotoluene	17.75	91	297241	25.04 ug/L		93
73)	1,3,5-Trimethylbenzene	17.91	105	362766	27.43 ug/L		95
74)	tert-Butylbenzene	18.30	119	324105	27.20 ug/L		93
75)	1,2,4-Trimethylbenzene	18.46	105	337490	27.14 ug/L		95
76)	sec-Butylbenzene	18.61	105	528569	29.31 ug/L		98
77)	1,3-Dichlorobenzene	18.71	146	201590	27.15 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	196096	27.98 ug/L		97
79)	p-Isopropyltoluene	18.85	119	400272	29.75 ug/L		95
80)	1,2-Dichlorobenzene	19.28	146	166930	27.73 ug/L		99
81)	n-Butylbenzene	19.39	91	388212	31.19 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	9202	25.02 ug/L		85
83)	1,2,4-Trichlorobenzene	21.51	180	95814	30.03 ug/L		97
84)	Napthalene	21.82	128	152397	31.11 ug/L		100
85)	Hexachlorobutadiene	21.88	225	71752	20.04 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	77645	30.90 ug/L		98

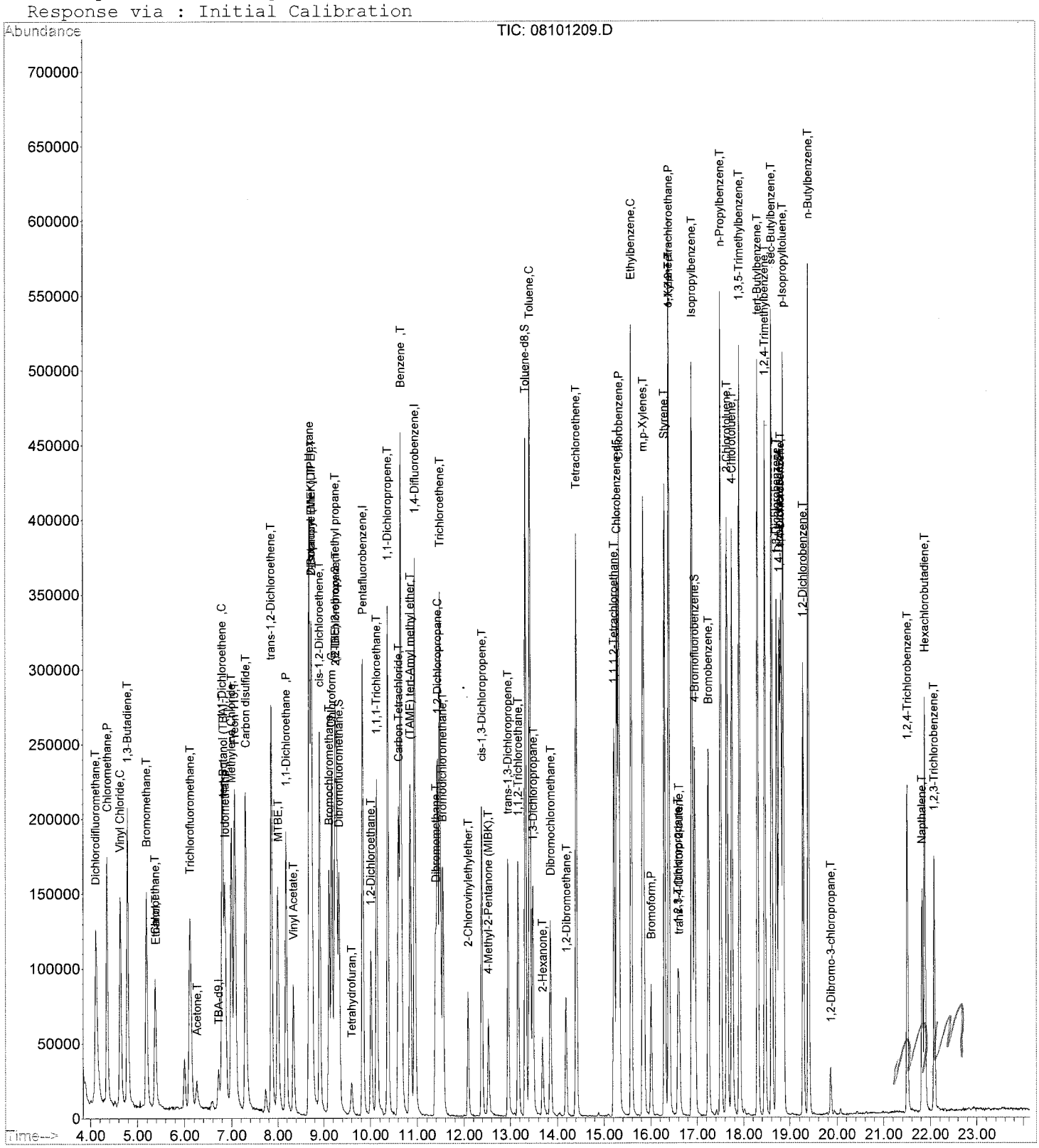
MM

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

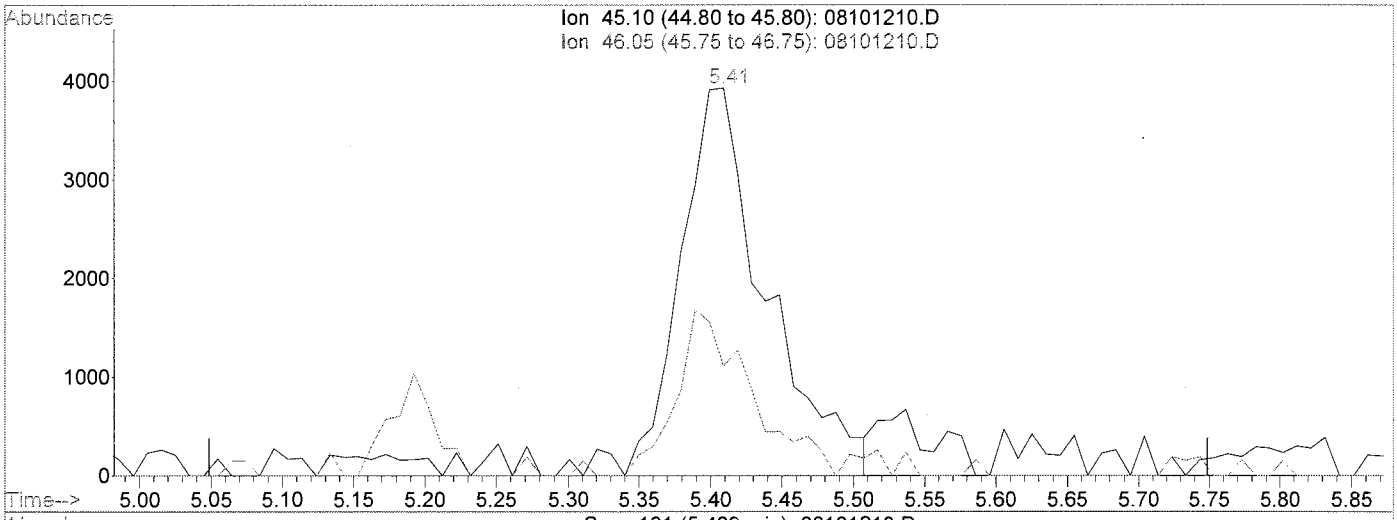
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

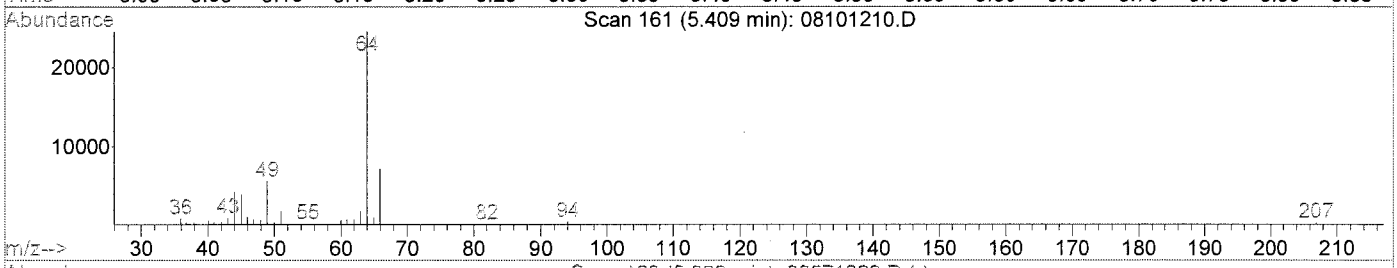


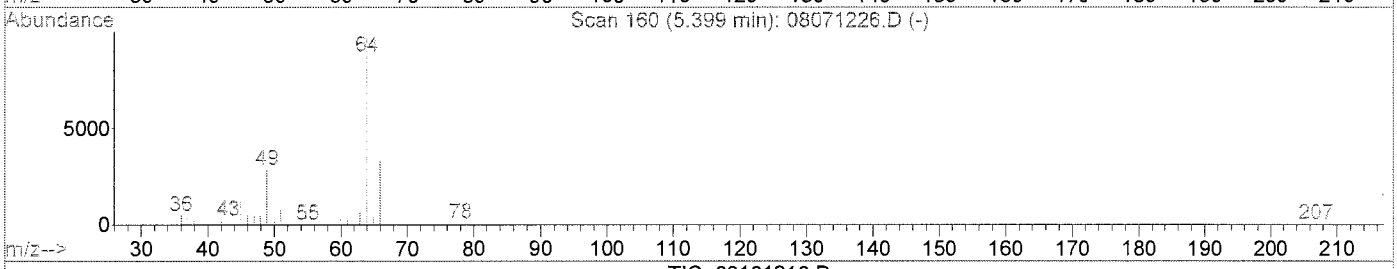
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 452.57ug/L

response 16581

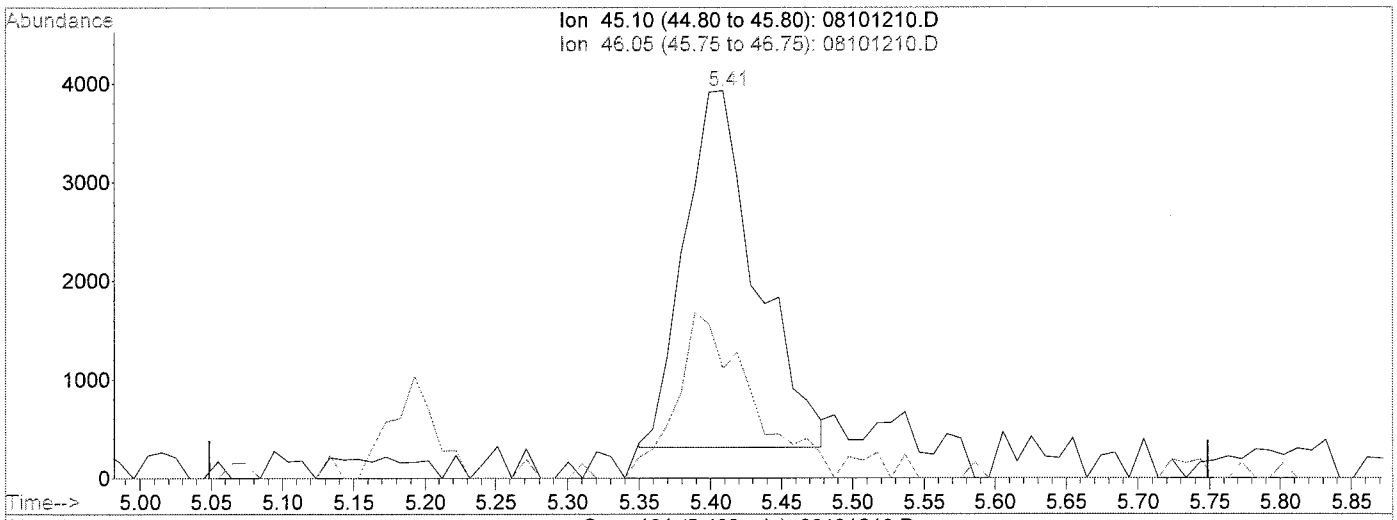
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	36.61
0.00	0.00	0.00
0.00	0.00	0.00

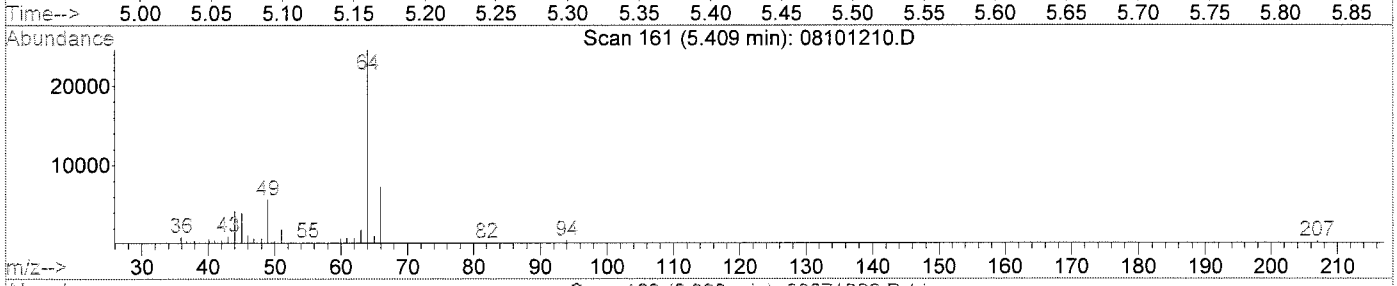
8/13/12
BL
MM 8/13/12

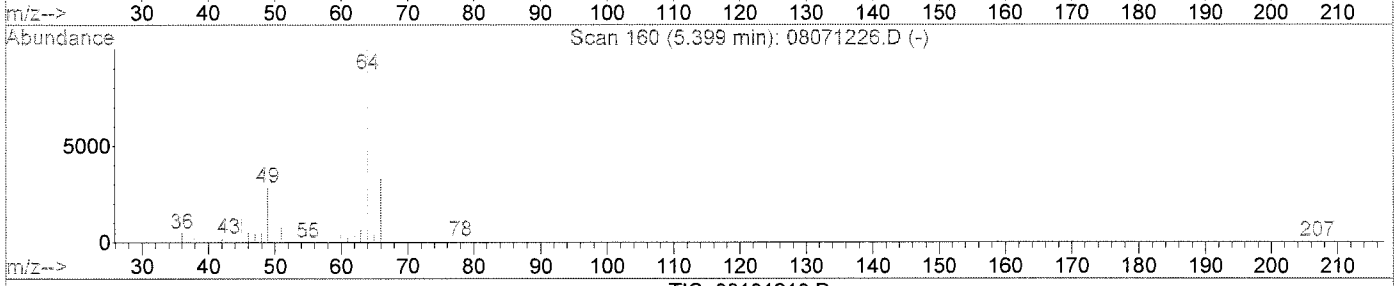
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 348.44ug/L m

response 12766

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

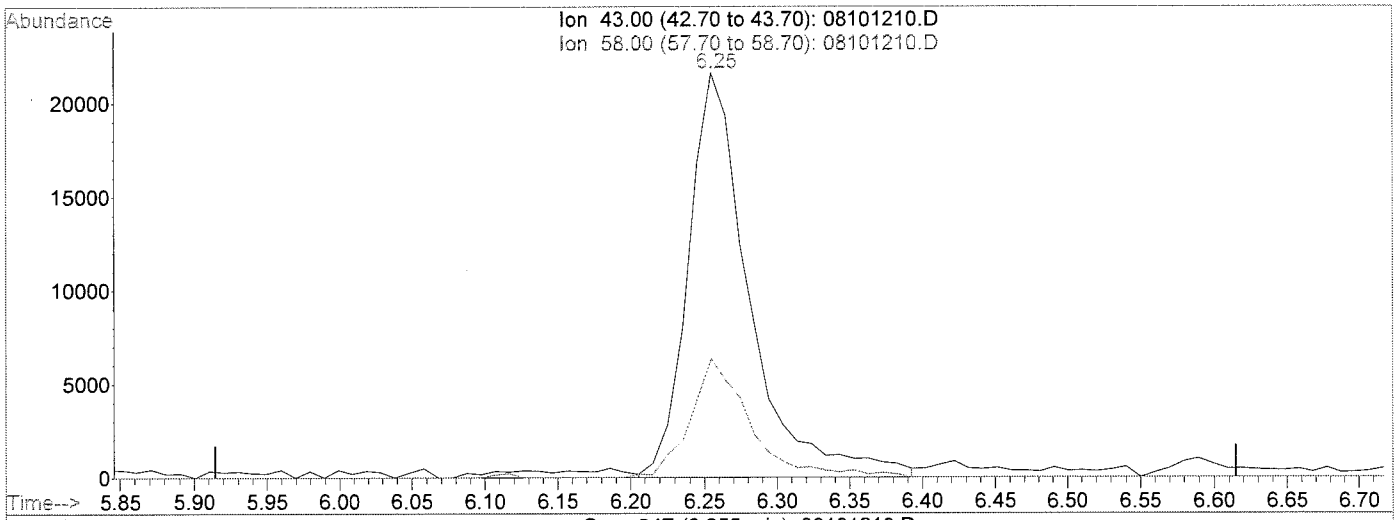
8/13/12

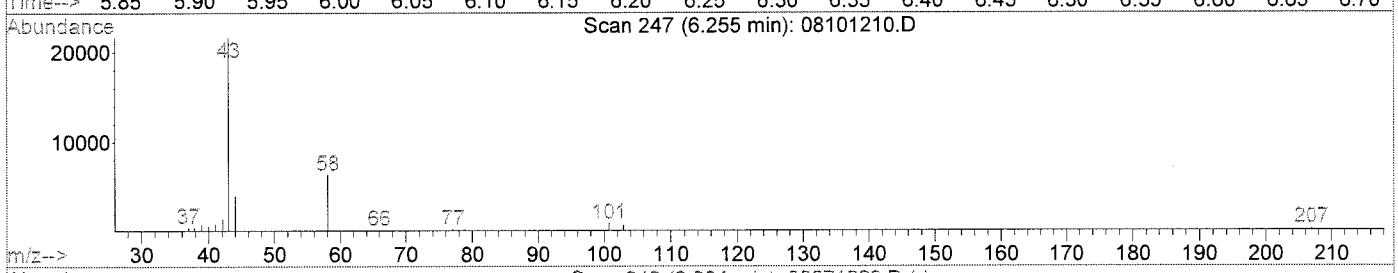
MNM 8/13/12

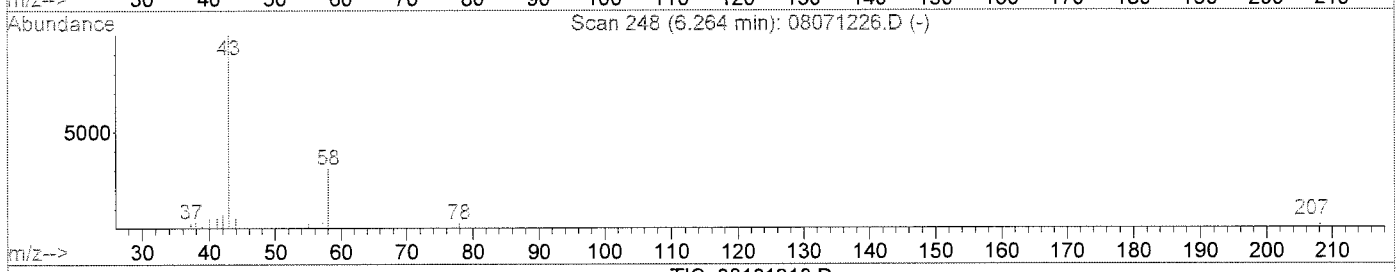
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 58.37ug/L

response 63143

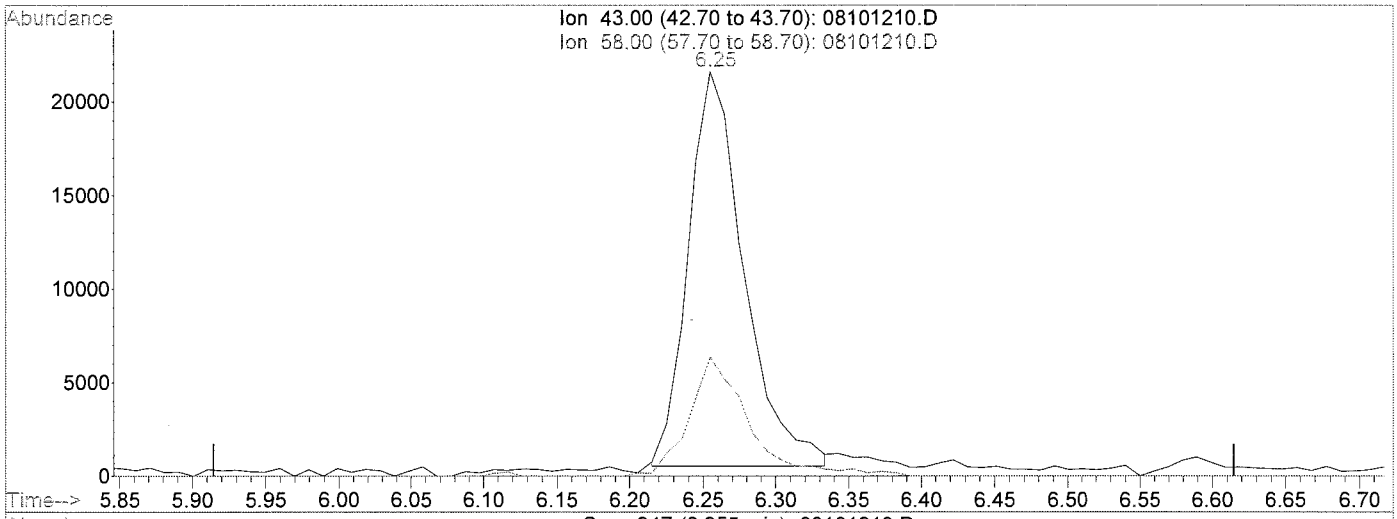
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

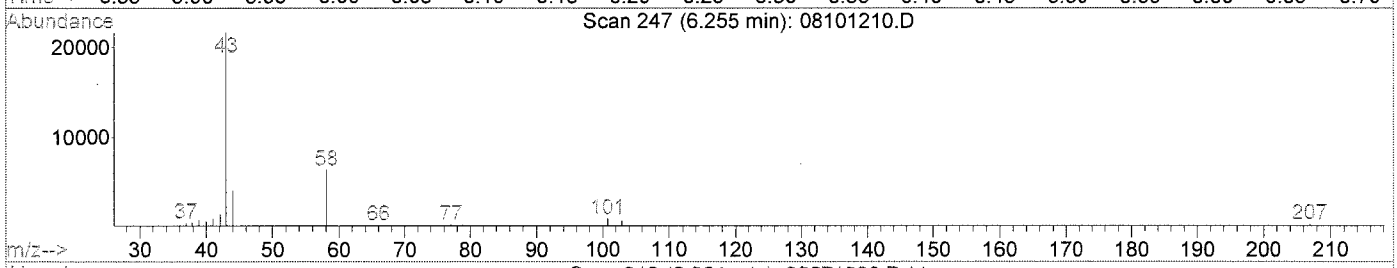
BL MNM 8/13/12

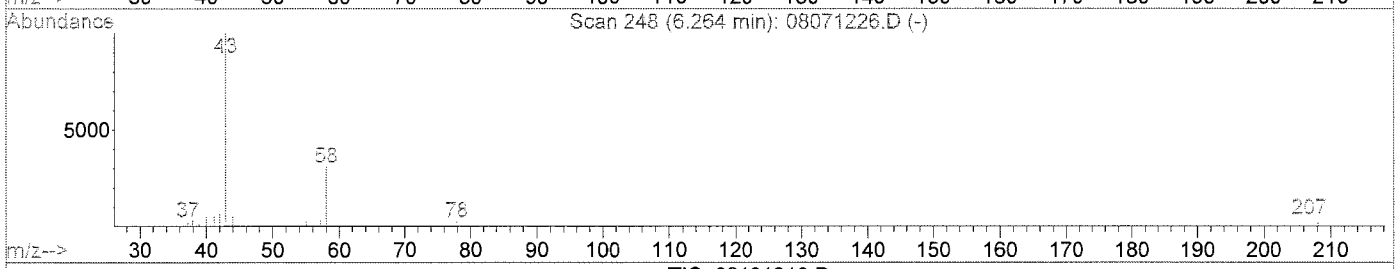
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 51.71ug/L m

response 55932

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.32#
0.00	0.00	0.00
0.00	0.00	0.00

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	54.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 216.48%	
48) Toluene-d8	13.33	98	687603	51.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 207.00%	
62) 4-Bromofluorobenzene	16.96	95	191956	48.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 195.48%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12766m	348.44 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	229.78 ug/L	98
5) Dichlorodifluoromethane	4.11	85	495471	52.70 ug/L	98
6) Chloromethane	4.36	50	463586	47.80 ug/L	100
7) Vinyl Chloride	4.63	62	430153	56.30 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	53.58 ug/L	90
9) Bromomethane	5.19	94	266149	54.04 ug/L	98
10) Chloroethane	5.38	64	224829	53.22 ug/L	95
11) Trichlorofluoromethane	6.12	101	394660	48.80 ug/L	100
12) Acetone	6.25	43	55932m	51.71 ug/L	
13) Iodomethane	6.86	142	447731	51.73 ug/L	93
14) 1,1-Dichloroethene	6.81	96	253470	53.37 ug/L #	77
15) Methylene Chloride	7.00	84	232960	49.18 ug/L	87
16) Freon 113	7.07	101	270520	50.78 ug/L	99
17) Carbon disulfide	7.30	76	898748	51.58 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	303726	59.07 ug/L	91
19) MTBE	8.01	73	432429	51.81 ug/L	99
20) 1,1-Dichloroethane	8.18	63	476710	54.34 ug/L	98
21) Vinyl Acetate	8.34	43	345852	50.60 ug/L #	95
22) n-Hexane	8.69	86	77107	63.23 ug/L	78
23) 2-Butanone (MEK)	8.72	72	17742	58.03 ug/L #	70
24) Diisopropyl Ether (DIPE)	8.73	45	798842	53.65 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	279884	61.29 ug/L	88
26) Bromochloromethane	9.12	128	116879	60.79 ug/L	97
27) Chloroform	9.18	83	417208	54.86 ug/L #	94
28) 2,2-Dichloropropane	9.27	77	310117	48.46 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	52.09 ug/L	96
31) Tetrahydrofuran	9.60	72	16252	53.21 ug/L	79
32) 1,2-Dichloroethane	10.01	62	203344	45.78 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	353898	53.82 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	466510	55.73 ug/L	92
36) 1,1-Dichloropropene	10.38	75	398689	52.55 ug/L	96
37) Carbon Tetrachloride	10.61	117	317819	47.76 ug/L	98
38) Benzene	10.66	78	947346	53.88 ug/L #	91
39) Dibromomethane	11.39	93	114917	54.08 ug/L	94
40) 1,2-Dichloropropane	11.44	63	221264	51.47 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	53.95 ug/L	97
42) Bromodichloromethane	11.55	83	271789	50.29 ug/L	97
43) 2-Chlorovinylethylether	12.09	63	88468	64.86 ug/L	95
44) cis-1,3-Dichloropropene	12.38	75	321115	57.35 ug/L #	83
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	41.86 ug/L	99
46) trans-1,3-Dichloropropene	12.95	75	237953	47.29 ug/L #	84
47) 1,1,2-Trichloroethane	13.17	97	137777	55.59 ug/L	91
49) Toluene	13.42	92	546857	58.28 ug/L	98
51) 1,3-Dichloropropane	13.48	76	244280	53.12 ug/L	99
52) 2-Hexanone	13.68	43	100587	49.14 ug/L #	88
53) Dibromochloromethane	13.85	129	183912	55.09 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	54.39 ug/L	96
55) Tetrachloroethene	14.41	164	226510	51.21 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	51.39 ug/L	97
57) Chlorobenzene	15.32	112	554587	58.64 ug/L	94
58) Ethylbenzene	15.58	91	975473	56.56 ug/L	96
59) m,p-Xylenes	15.85	106	377996	60.35 ug/L	91
60) Styrene	16.30	104	514481	62.85 ug/L #	92
61) o-Xylene	16.40	106	349209	61.28 ug/L	91
64) Bromoform	16.01	173	108591	47.26 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	52.54 ug/L	97
66) 1,2,3-Trichloropropane	16.59	110	37829	48.36 ug/L	99
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	41.70 ug/L #	75
68) Isopropylbenzene	16.90	105	857226	53.54 ug/L	97
69) Bromobenzene	17.25	156	212979	51.54 ug/L	92
70) n-Propylbenzene	17.51	91	1098531	54.22 ug/L	98
71) 2-Chlorotoluene	17.65	91	577687	49.10 ug/L	96
72) 4-Chlorotoluene	17.75	91	568985	50.86 ug/L	93
73) 1,3,5-Trimethylbenzene	17.91	105	676601	54.29 ug/L	95
74) tert-Butylbenzene	18.30	119	601956	53.60 ug/L	92
75) 1,2,4-Trimethylbenzene	18.46	105	638890	54.52 ug/L	95
76) sec-Butylbenzene	18.61	105	960020	56.47 ug/L	98
77) 1,3-Dichlorobenzene	18.72	146	388318	55.49 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	375463	56.84 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	58.52 ug/L	95
80) 1,2-Dichlorobenzene	19.28	146	317732	56.00 ug/L	99
81) n-Butylbenzene	19.39	91	715599	60.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	48.97 ug/L	84
83) 1,2,4-Trichlorobenzene	21.51	180	170461	56.69 ug/L	100
84) Napthalene	21.83	128	258045	55.90 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	36.05 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	55.90 ug/L	98

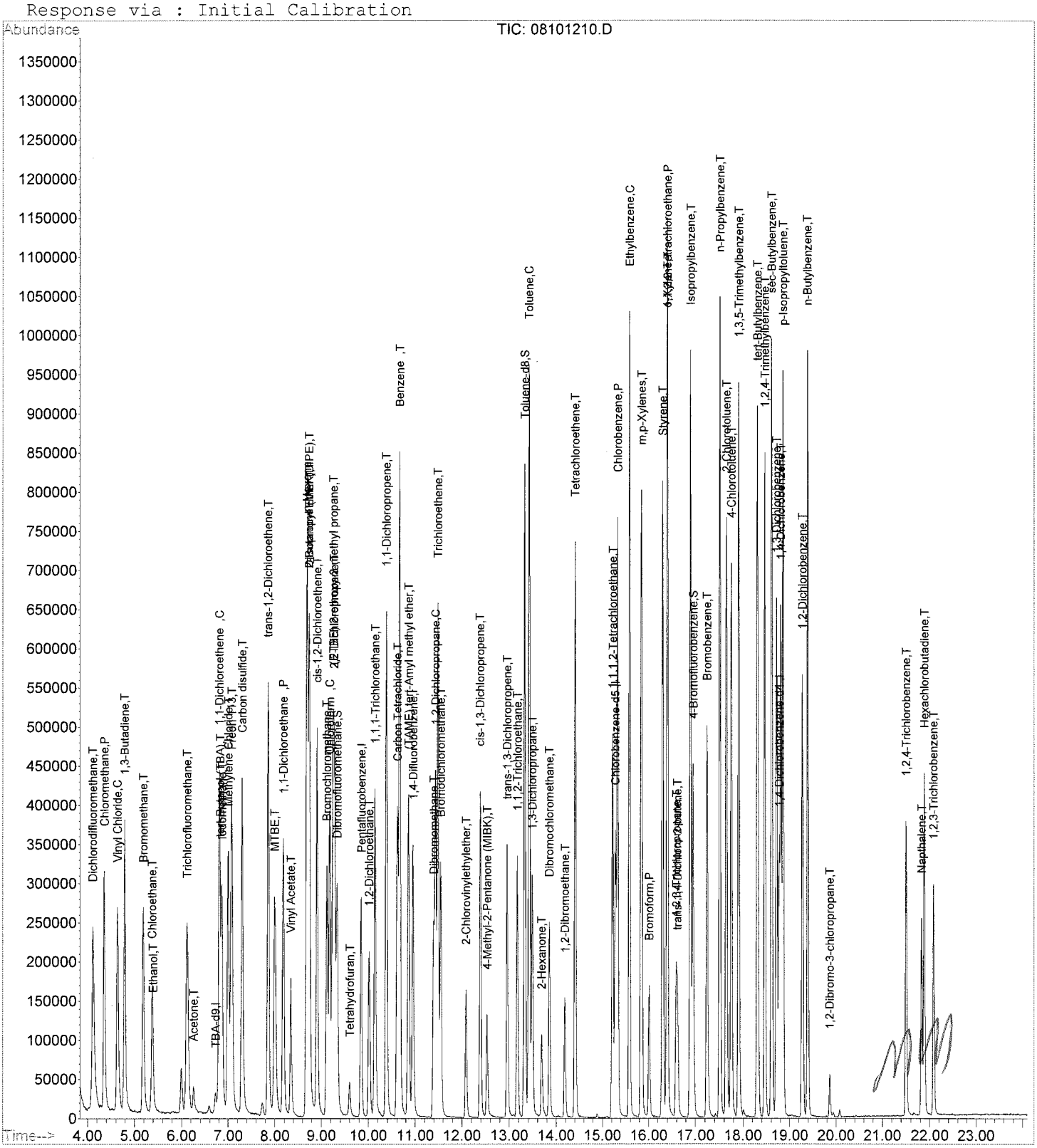
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

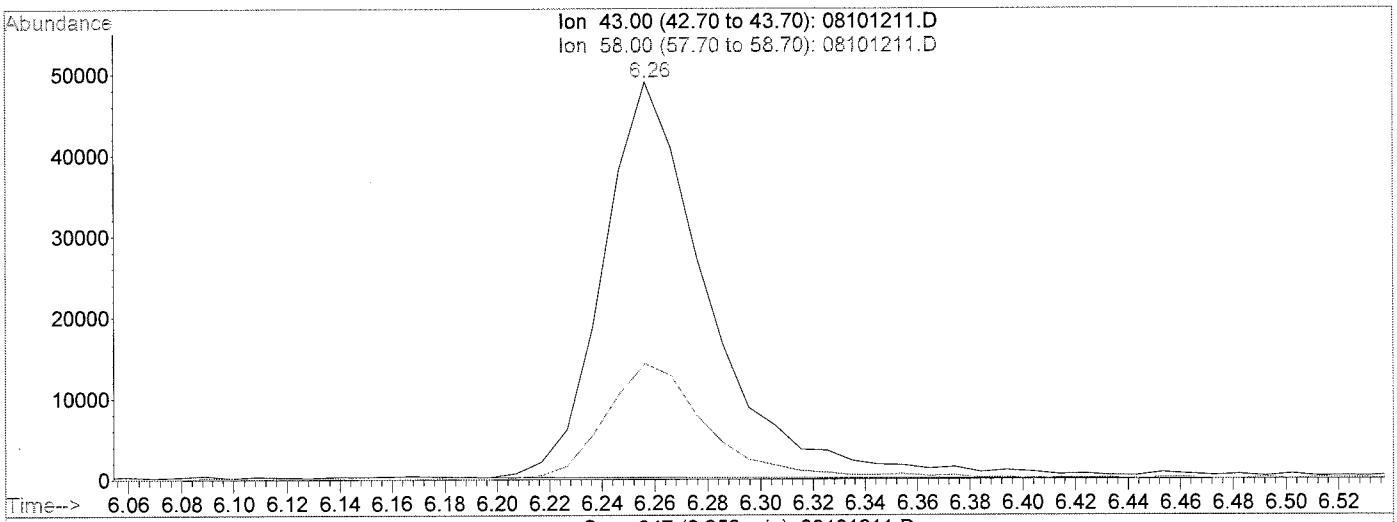
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

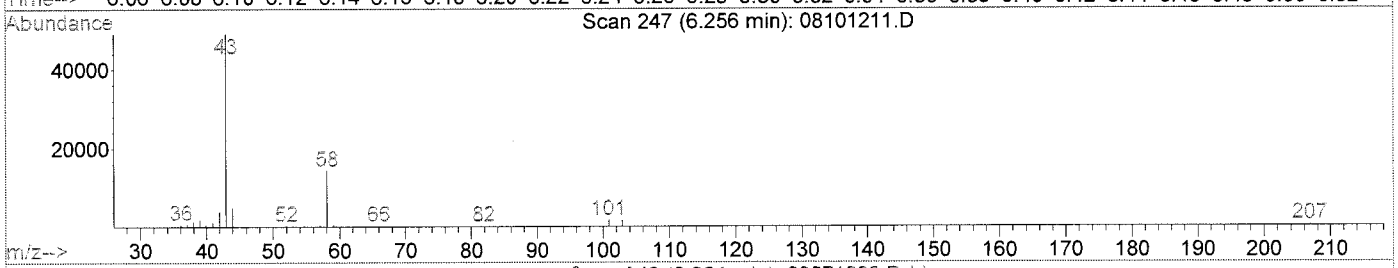


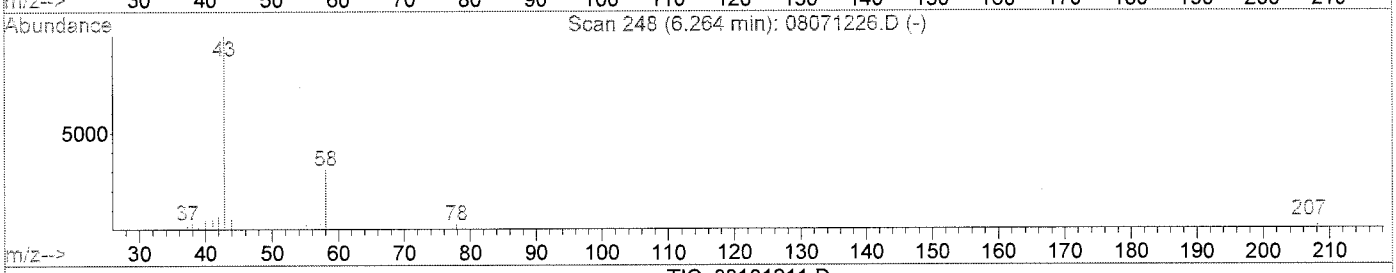
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 124.13ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

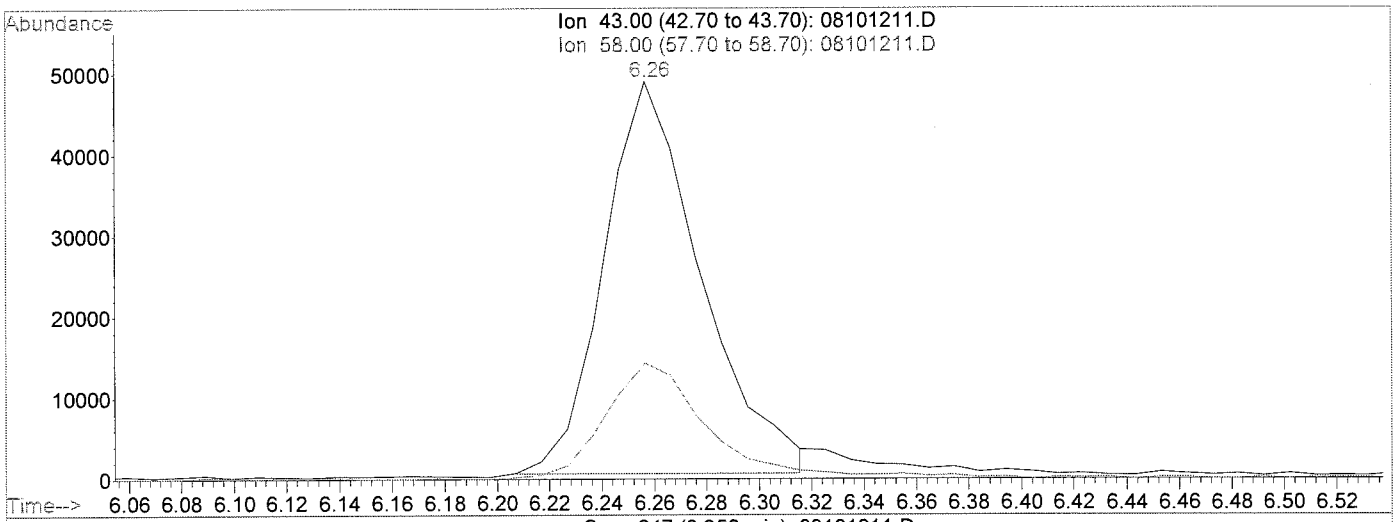
BL

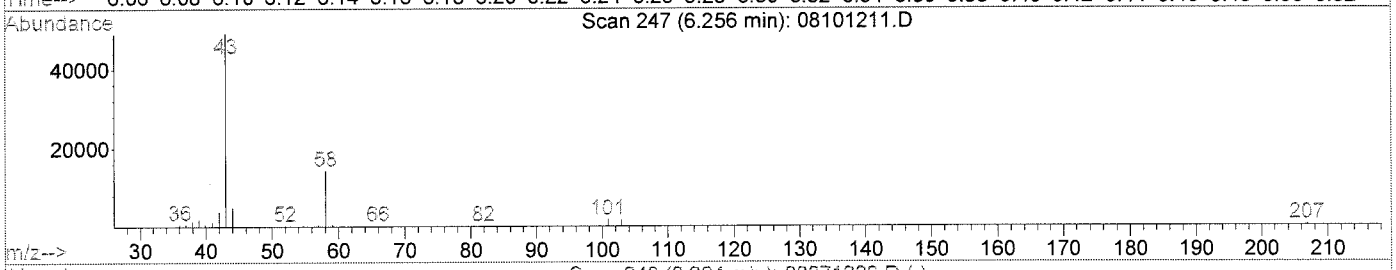
MM 8/13/12

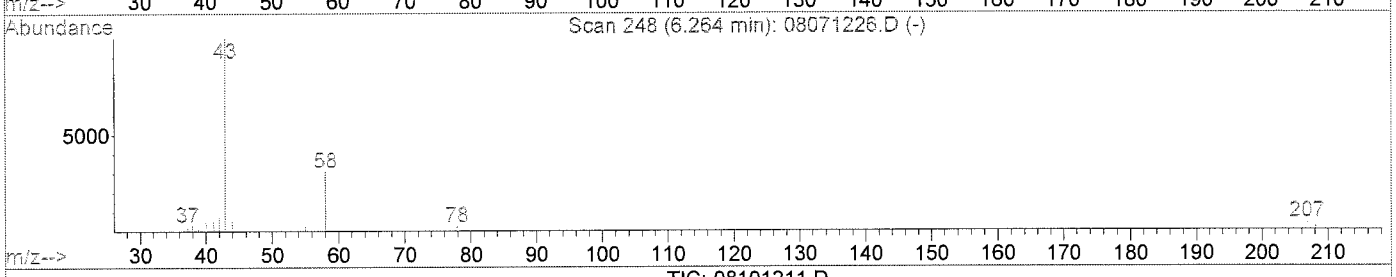
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 112.83ug/L m

response 124363

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	31.75#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	112.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 448.96%	
48) Toluene-d8	13.33	98	1402084	102.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 409.44%	
62) 4-Bromofluorobenzene	16.96	95	412368	103.79 ug/L	0.00
Spiked Amount 25.000			Recovery	= 415.16%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	845.73 ug/L	87
3) tert-Butanol (TBA)	6.84	59	168336	487.29 ug/L	98
5) Dichlorodifluoromethane	4.11	85	964320	100.65 ug/L	100
6) Chloromethane	4.35	50	890682	90.12 ug/L	99
7) Vinyl Chloride	4.63	62	798541	102.57 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	102.57 ug/L	91
9) Bromomethane	5.18	94	525441	104.71 ug/L	97
10) Chloroethane	5.38	64	441624	102.59 ug/L	97
11) Trichlorofluoromethane	6.11	101	763247	92.62 ug/L	98
12) Acetone	6.26	43	124363m	112.83 ug/L	
13) Iodomethane	6.87	142	901113	102.17 ug/L	94
14) 1,1-Dichloroethene	6.81	96	508761	105.12 ug/L #	76
15) Methylene Chloride	7.00	84	470851	97.56 ug/L	86
16) Freon 113	7.07	101	528427	97.35 ug/L	99
17) Carbon disulfide	7.30	76	1756954	98.95 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	597492	114.05 ug/L	88
19) MTBE	8.01	73	913608	107.43 ug/L	99
20) 1,1-Dichloroethane	8.18	63	943450	105.54 ug/L	98
21) Vinyl Acetate	8.34	43	745936	107.10 ug/L #	96
22) n-Hexane	8.69	86	148544	119.54 ug/L	80
23) 2-Butanone (MEK)	8.73	72	42692	137.03 ug/L #	31
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	108.15 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	568187	122.11 ug/L	88
26) Bromochloromethane	9.12	128	236072	120.50 ug/L	98
27) Chloroform	9.18	83	844569	108.99 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	597220	91.59 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	107.12 ug/L	96
31) Tetrahydrofuran	9.60	72	36606	117.61 ug/L #	75
32) 1,2-Dichloroethane	10.01	62	408116	90.17 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	706415	105.43 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	119.50 ug/L	91
36) 1,1-Dichloropropene	10.38	75	752175	96.17 ug/L	95
37) Carbon Tetrachloride	10.61	117	629787	91.80 ug/L	98
38) Benzene	10.66	78	1918047	105.83 ug/L #	91
39) Dibromomethane	11.39	93	240215	109.65 ug/L	94
40) 1,2-Dichloropropane	11.44	63	454008	102.45 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.49	95	523897	103.35 ug/L		96
42)	Bromodichloromethane	11.55	83	571821	102.64 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	190358	122.05 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	663914	115.02 ug/L	#	82
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	91.20 ug/L		94
46)	trans-1,3-Dichloropropene	12.95	75	509355	97.85 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	286704	112.22 ug/L	#	90
49)	Toluene	13.43	92	1076337	111.27 ug/L		97
51)	1,3-Dichloropropane	13.49	76	517001	111.13 ug/L		99
52)	2-Hexanone	13.68	43	235539	113.74 ug/L	#	89
53)	Dibromochloromethane	13.85	129	396223	117.33 ug/L		99
54)	1,2-Dibromoethane	14.18	107	308443	116.56 ug/L		97
55)	Tetrachloroethene	14.41	164	452394	101.11 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	101.04 ug/L		95
57)	Chlorobenzene	15.33	112	1118631	116.92 ug/L		93
58)	Ethylbenzene	15.58	91	1923271	110.23 ug/L		96
59)	m,p-Xylenes	15.85	106	762608	120.37 ug/L		90
60)	Styrene	16.30	104	1032436	124.69 ug/L	#	92
61)	o-Xylene	16.40	106	651161	112.96 ug/L		92
64)	Bromoform	16.01	173	219950	89.79 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	104.83 ug/L		97
66)	1,2,3-Trichloropropane	16.59	110	78214	103.05 ug/L		100
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	88.29 ug/L	#	76
68)	Isopropylbenzene	16.90	105	1628971	104.87 ug/L		98
69)	Bromobenzene	17.24	156	425714	106.19 ug/L		93
70)	n-Propylbenzene	17.51	91	2114087	107.55 ug/L		98
71)	2-Chlorotoluene	17.65	91	1126734	98.72 ug/L		95
72)	4-Chlorotoluene	17.75	91	1125554	103.70 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	102.08 ug/L		95
74)	tert-Butylbenzene	18.31	119	1083175	99.41 ug/L		92
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	103.46 ug/L		95
76)	sec-Butylbenzene	18.61	105	1705621	103.42 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	699081	102.97 ug/L		98
78)	1,4-Dichlorobenzene	18.82	146	702424	109.61 ug/L		97
79)	p-Isopropyltoluene	18.86	119	1317395	107.06 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	538352	97.79 ug/L		99
81)	n-Butylbenzene	19.40	91	1266655	111.28 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	79.94 ug/L	#	78
83)	1,2,4-Trichlorobenzene	21.50	180	271631	93.12 ug/L		99
84)	Napthalene	21.83	128	441804	98.64 ug/L		99
85)	Hexachlorobutadiene	21.89	225	166042	67.42 ug/L		99
86)	1,2,3-Trichlorobenzene	22.08	180	218534	95.26 ug/L		97

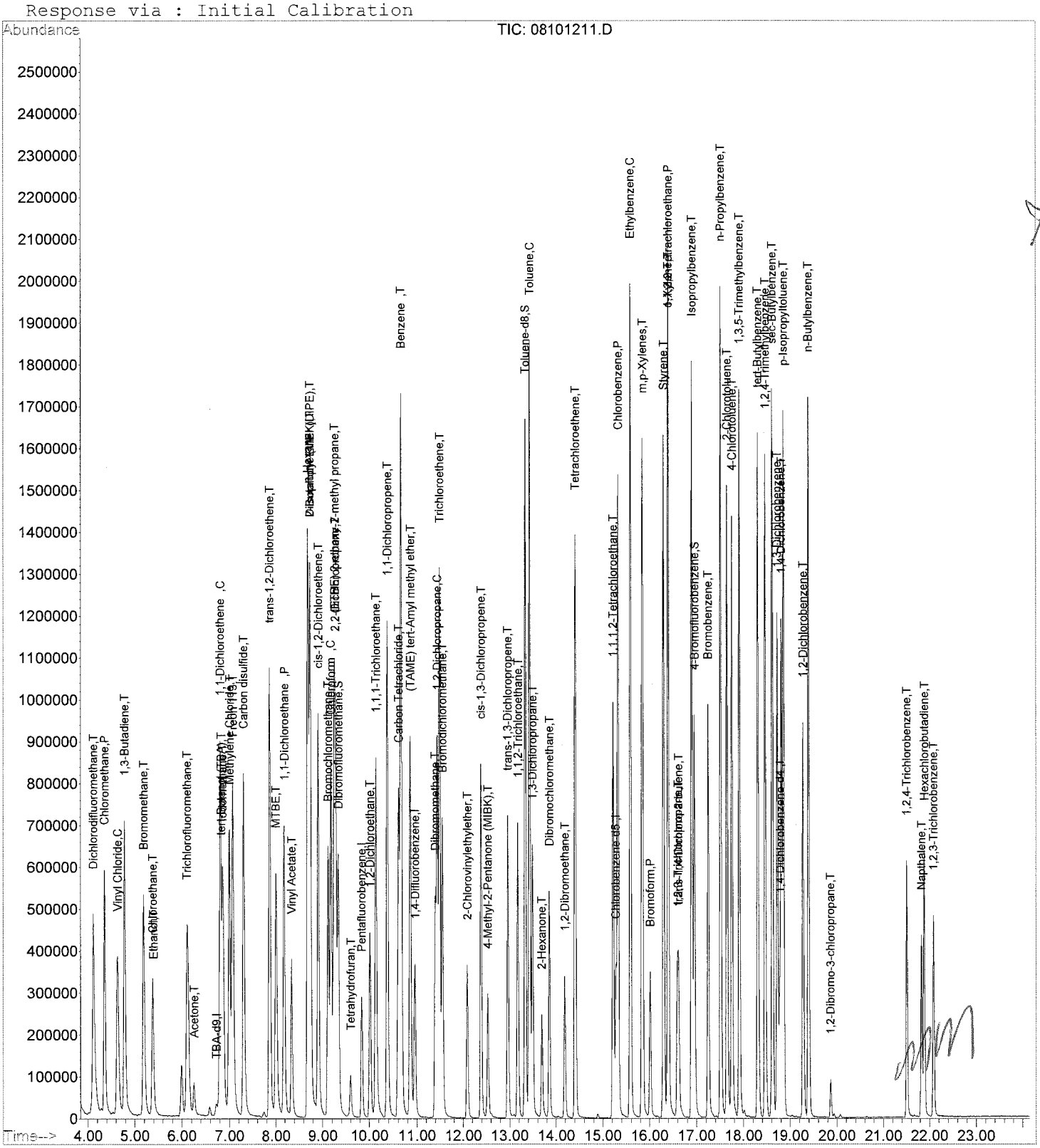
MNM

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

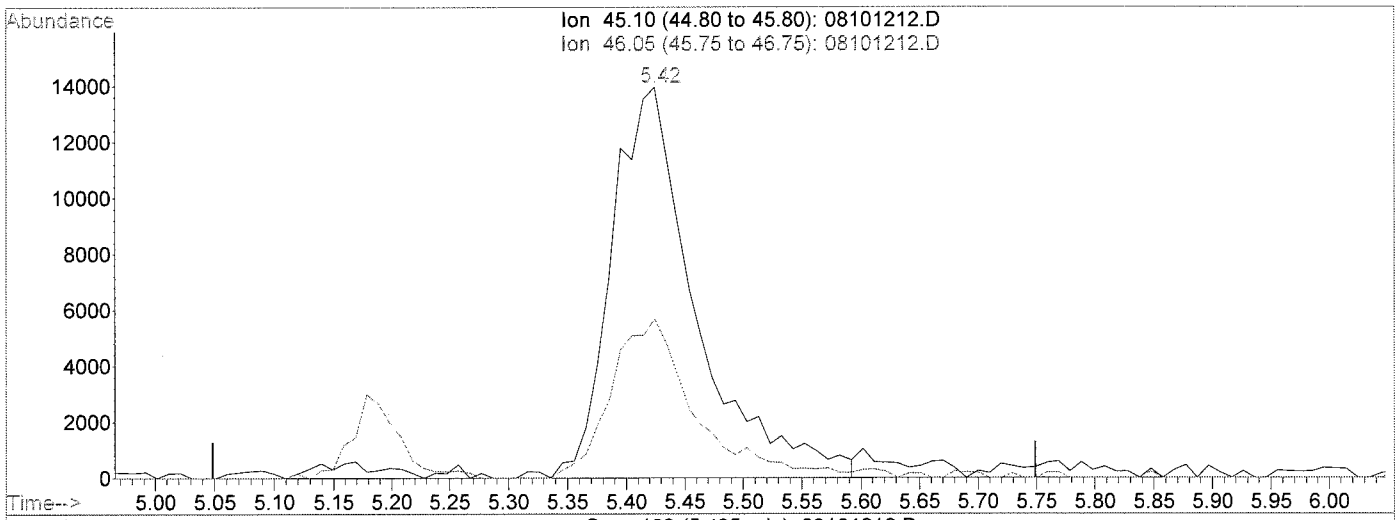
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

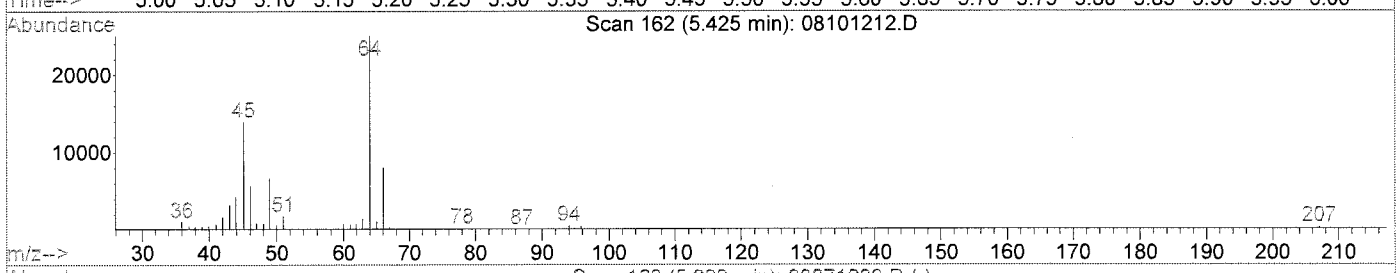


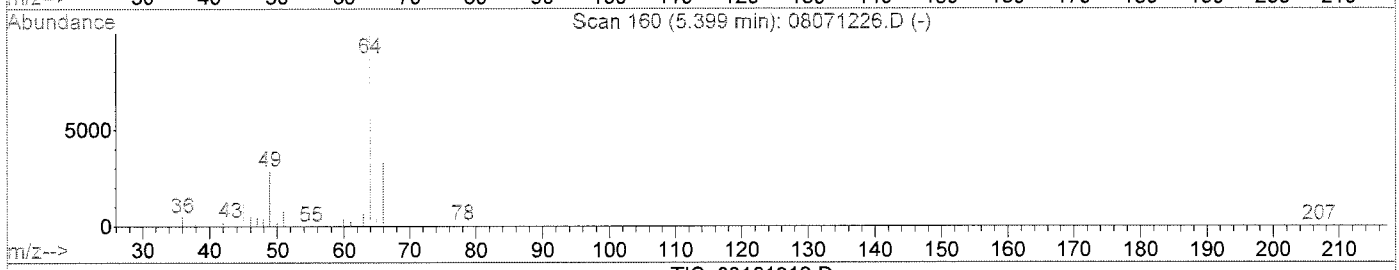
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2144.22ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	40.18
0.00	0.00	0.00
0.00	0.00	0.00

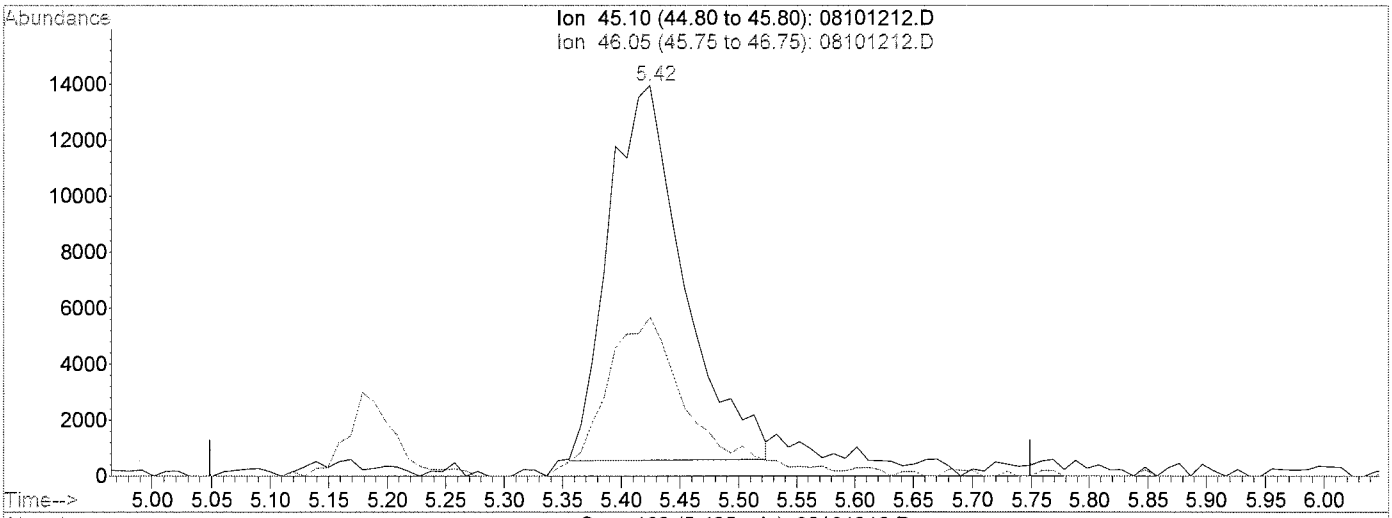
8/13/12

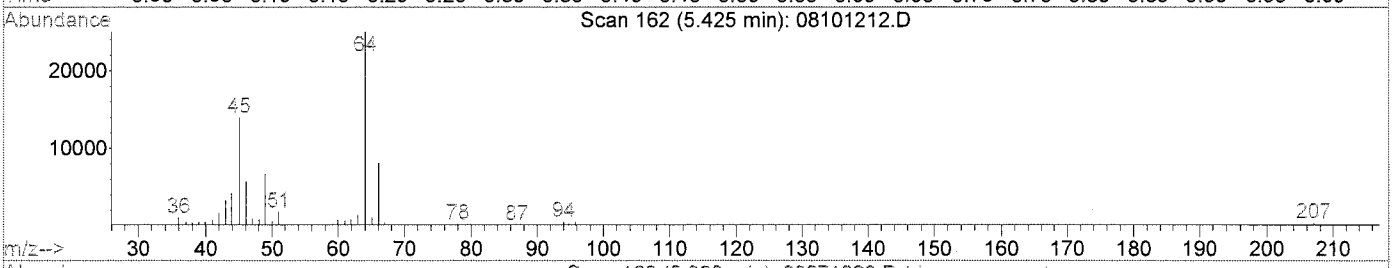
DL MM 8/13/12

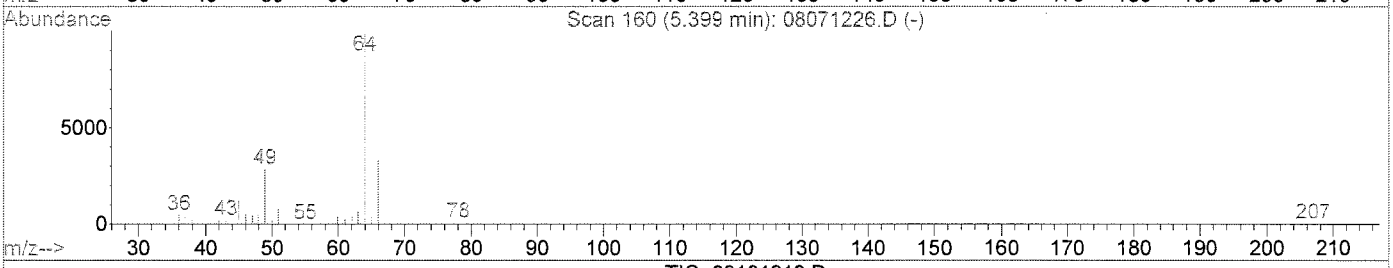
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 1816.70ug/L m

response 59372

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.42
0.00	0.00	0.00
0.00	0.00	0.00

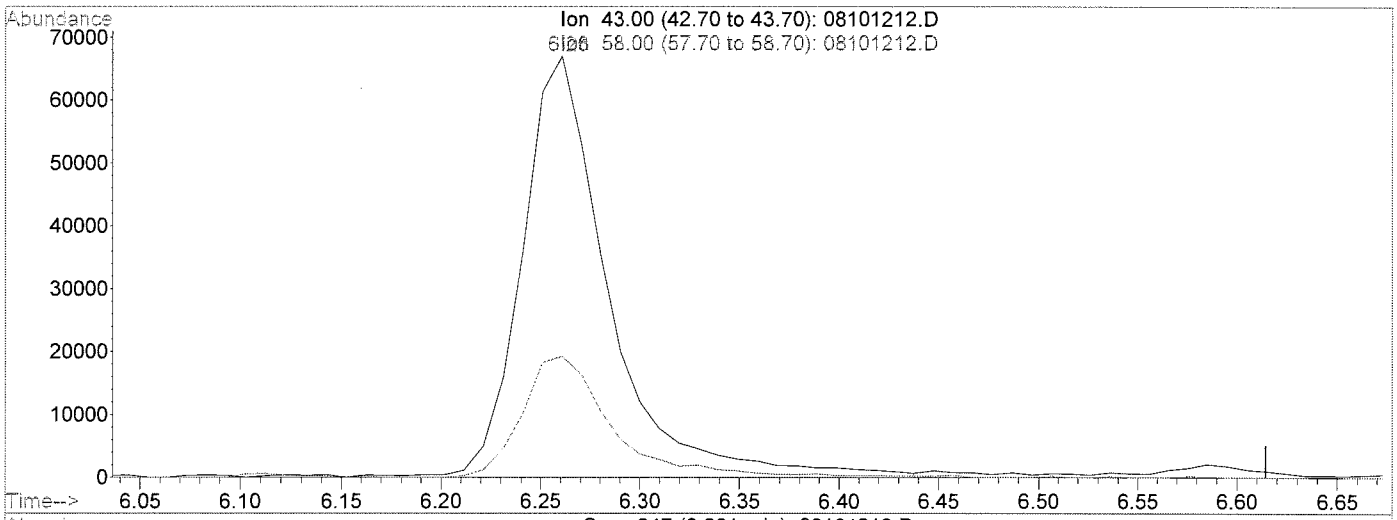
8/13/12

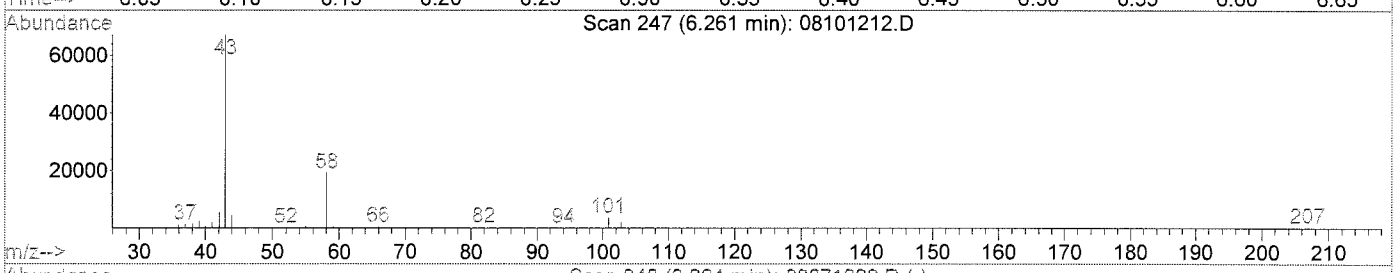
MM 8/13/12

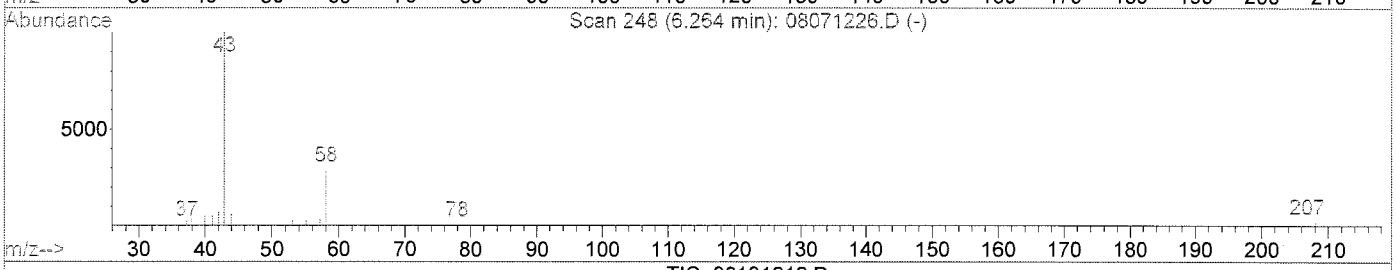
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 191.80ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	29.87#
0.00	0.00	0.00
0.00	0.00	0.00

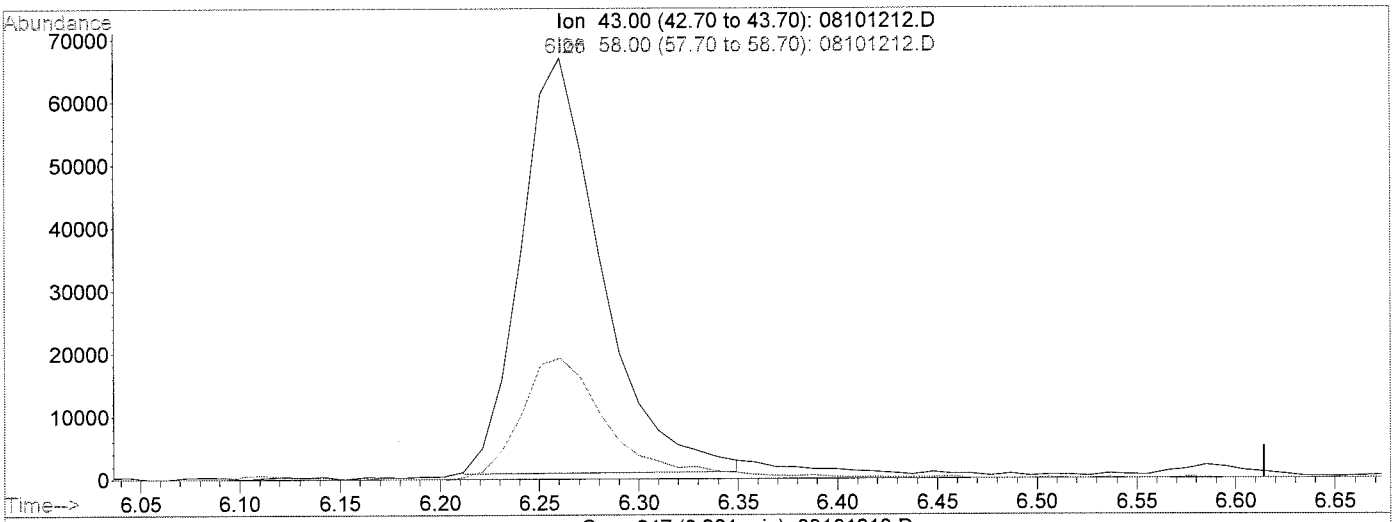
BL

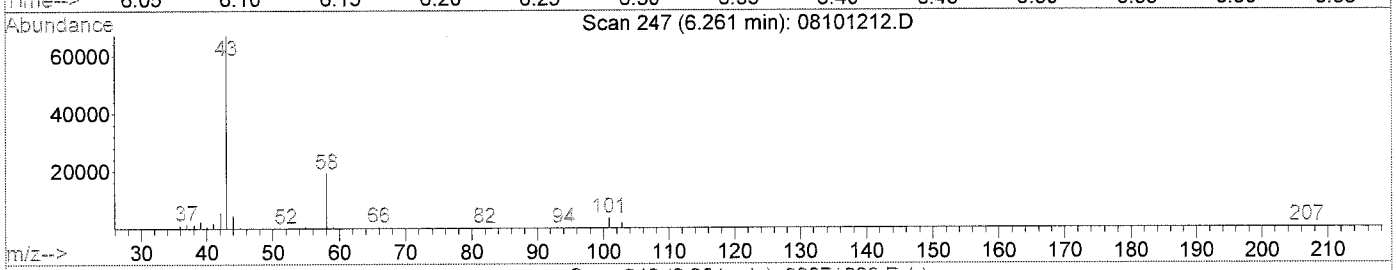
MM 8/13/12

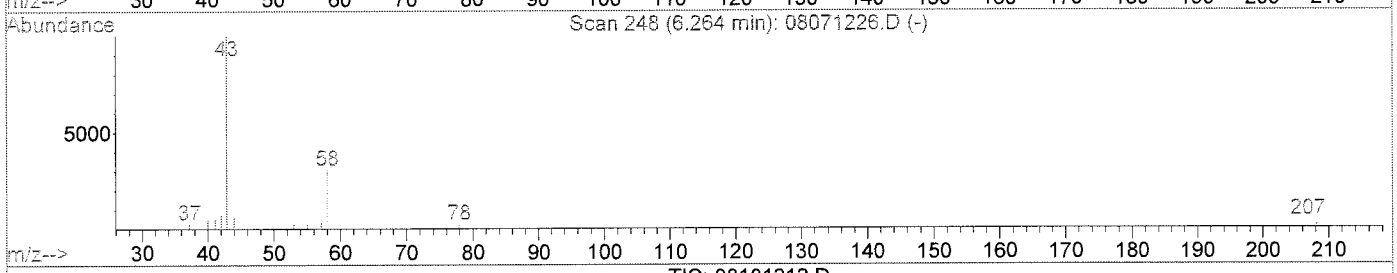
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(12) Acetone (T)

6.26min 175.08ug/L m

response 186273

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.72#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	232.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 930.60%	
48) Toluene-d8	13.33	98	2766585	213.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 855.28%	
62) 4-Bromofluorobenzene	16.96	95	772758	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59372m	1816.70 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1088.44 ug/L	97
5) Dichlorodifluoromethane	4.12	85	1798928	194.53 ug/L	100
6) Chloromethane	4.35	50	1636489	171.54 ug/L	100
7) Vinyl Chloride	4.62	62	1314727	174.95 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	198.47 ug/L	91
9) Bromomethane	5.19	94	991158	204.62 ug/L	97
10) Chloroethane	5.38	64	798291	192.12 ug/L	97
11) Trichlorofluoromethane	6.11	101	1442227	181.32 ug/L	98
12) Acetone	6.26	43	186273m	175.08 ug/L	
13) Iodomethane	6.86	142	1691791	198.72 ug/L	94
14) 1,1-Dichloroethene	6.80	96	959183	205.33 ug/L #	75
15) Methylene Chloride	7.00	84	866879	186.08 ug/L	86
16) Freon 113	7.07	101	1005834	191.97 ug/L	99
17) Carbon disulfide	7.30	76	3351895	195.57 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	1151435	227.70 ug/L	88
19) MTBE	8.00	73	1705610	207.77 ug/L	99
20) 1,1-Dichloroethane	8.18	63	1809927	209.75 ug/L	97
21) Vinyl Acetate	8.34	43	1413743	210.29 ug/L #	94
22) n-Hexane	8.69	86	285278	237.85 ug/L	76
23) 2-Butanone (MEK)	8.72	72	74546	247.88 ug/L #	32
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	211.74 ug/L	95
25) cis-1,2-Dichloroethene	8.92	96	1089239	242.53 ug/L	86
26) Bromochloromethane	9.12	128	469231	248.13 ug/L	86
27) Chloroform	9.18	83	1657554	221.61 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	1146423	182.15 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	208.43 ug/L	95
31) Tetrahydrofuran	9.60	72	68814	229.05 ug/L #	76
32) 1,2-Dichloroethane	10.02	62	794737	181.92 ug/L	97
33) 1,1,1-Trichloroethane	10.15	97	1389872	214.91 ug/L	93
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	224.30 ug/L #	91
36) 1,1-Dichloropropene	10.38	75	1491816	201.91 ug/L	96
37) Carbon Tetrachloride	10.61	117	1253531	193.43 ug/L	98
38) Benzene	10.67	78	3652383	213.32 ug/L #	91
39) Dibromomethane	11.40	93	460678	222.61 ug/L	96
40) 1,2-Dichloropropane	11.43	63	868011	207.34 ug/L #	90

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

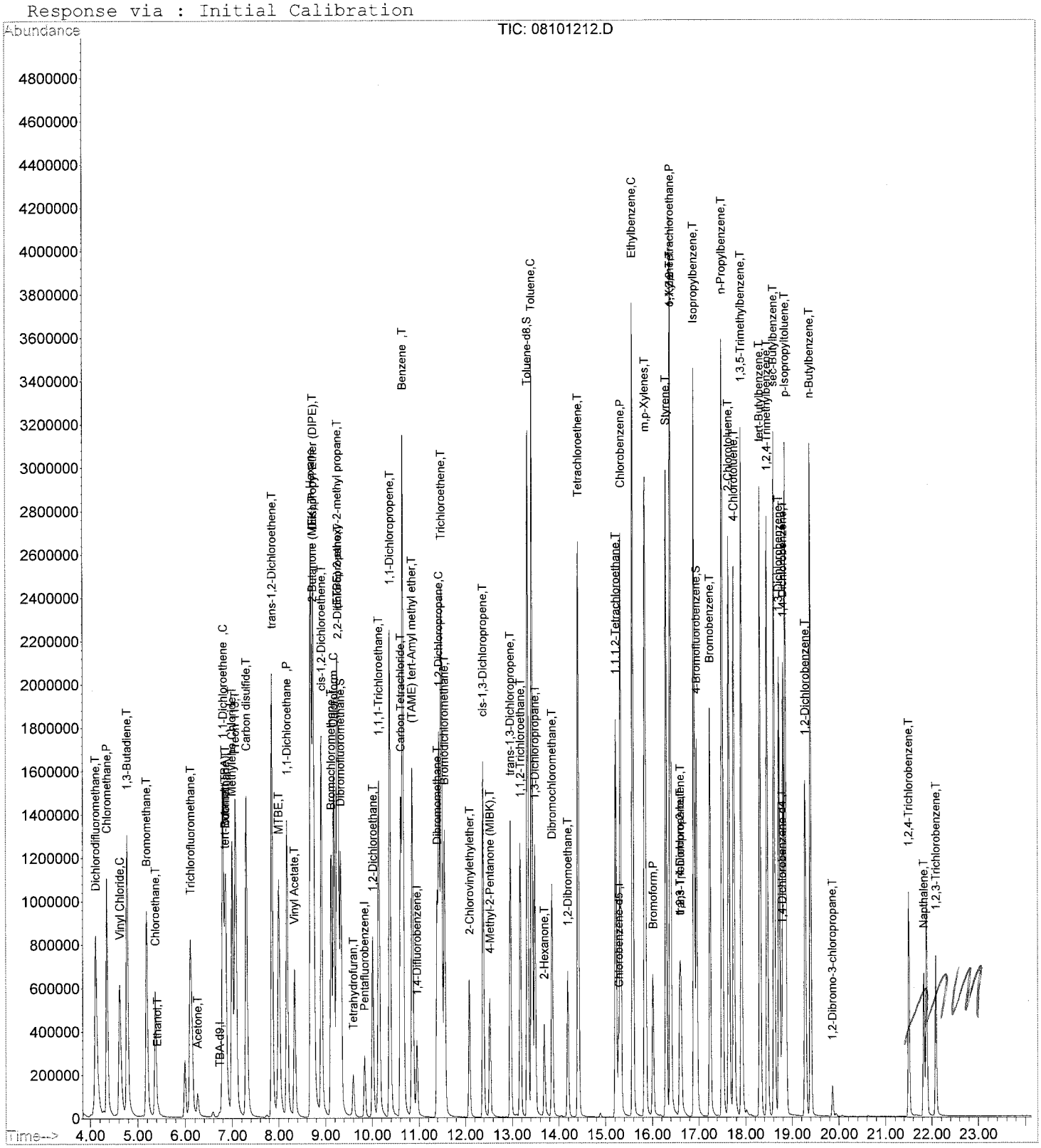
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	214.05 ug/L		95
42)	Bromodichloromethane	11.55	83	1076186	204.48 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	356836	210.26 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	1241936	227.77 ug/L	#	83
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	172.10 ug/L		95
46)	trans-1,3-Dichloropropene	12.96	75	974996	197.95 ug/L	#	84
47)	1,1,2-Trichloroethane	13.18	97	546786	226.55 ug/L	#	88
49)	Toluene	13.42	92	2055027	224.89 ug/L		96
51)	1,3-Dichloropropane	13.49	76	938228	211.31 ug/L		98
52)	2-Hexanone	13.69	43	386586	195.60 ug/L	#	89
53)	Dibromochloromethane	13.85	129	760108	235.83 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	233.17 ug/L		98
55)	Tetrachloroethene	14.41	164	884667	207.16 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	208.94 ug/L		96
57)	Chlorobenzene	15.33	112	2070815	226.78 ug/L		92
58)	Ethylbenzene	15.59	91	3553977	213.43 ug/L		94
59)	m,p-Xylenes	15.85	106	1442112	238.49 ug/L		88
60)	Styrene	16.30	104	1948462	246.56 ug/L	#	92
61)	o-Xylene	16.40	106	1266882	230.27 ug/L		90
64)	Bromoform	16.02	173	438702	176.77 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	213.16 ug/L		98
66)	1,2,3-Trichloropropane	16.60	110	133888	205.80 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	159.35 ug/L	#	71
68)	Isopropylbenzene	16.90	105	3024067	227.13 ug/L		96
69)	Bromobenzene	17.25	156	802086	233.39 ug/L		93
70)	n-Propylbenzene	17.51	91	3823645	226.92 ug/L		96
71)	2-Chlorotoluene	17.65	91	2041028	208.61 ug/L		95
72)	4-Chlorotoluene	17.76	91	2058362	221.24 ug/L		93
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	220.67 ug/L		94
74)	tert-Butylbenzene	18.31	119	1933954	207.06 ug/L		92
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	218.28 ug/L		93
76)	sec-Butylbenzene	18.62	105	3047825	215.58 ug/L		97
77)	1,3-Dichlorobenzene	18.72	146	1267811	217.85 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	1231960	224.27 ug/L		97
79)	p-Isopropyltoluene	18.86	119	2345916	222.41 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	944274	200.10 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	222.74 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	153.64 ug/L	#	71
83)	1,2,4-Trichlorobenzene	21.51	180	455405	182.12 ug/L		99
84)	Napthalene	21.83	128	697402	181.65 ug/L		100
85)	Hexachlorobutadiene	21.89	225	262810	Below Cal		100
86)	1,2,3-Trichlorobenzene	22.09	180	329008	167.36 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	292809	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	131913	24.56 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.24%	
48) Toluene-d8	13.33	98	397025	24.29 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.16%	
62) 4-Bromofluorobenzene	16.95	95	111862	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.88%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	543	18.33 ug/L #	21
9) Bromomethane	5.29	94	868	0.14 ug/L #	2
12) Acetone	6.25	43	1787	1.38 ug/L #	52
28) 2,2-Dichloropropane	9.30	77	770	0.10 ug/L #	66
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.36 ug/L #	27
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.13 ug/L #	37
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.11 ug/L #	61
84) Napthalene	21.84	128	1664	0.29 ug/L #	82
86) 1,2,3-Trichlorobenzene	22.07	180	380	Below Cal #	77

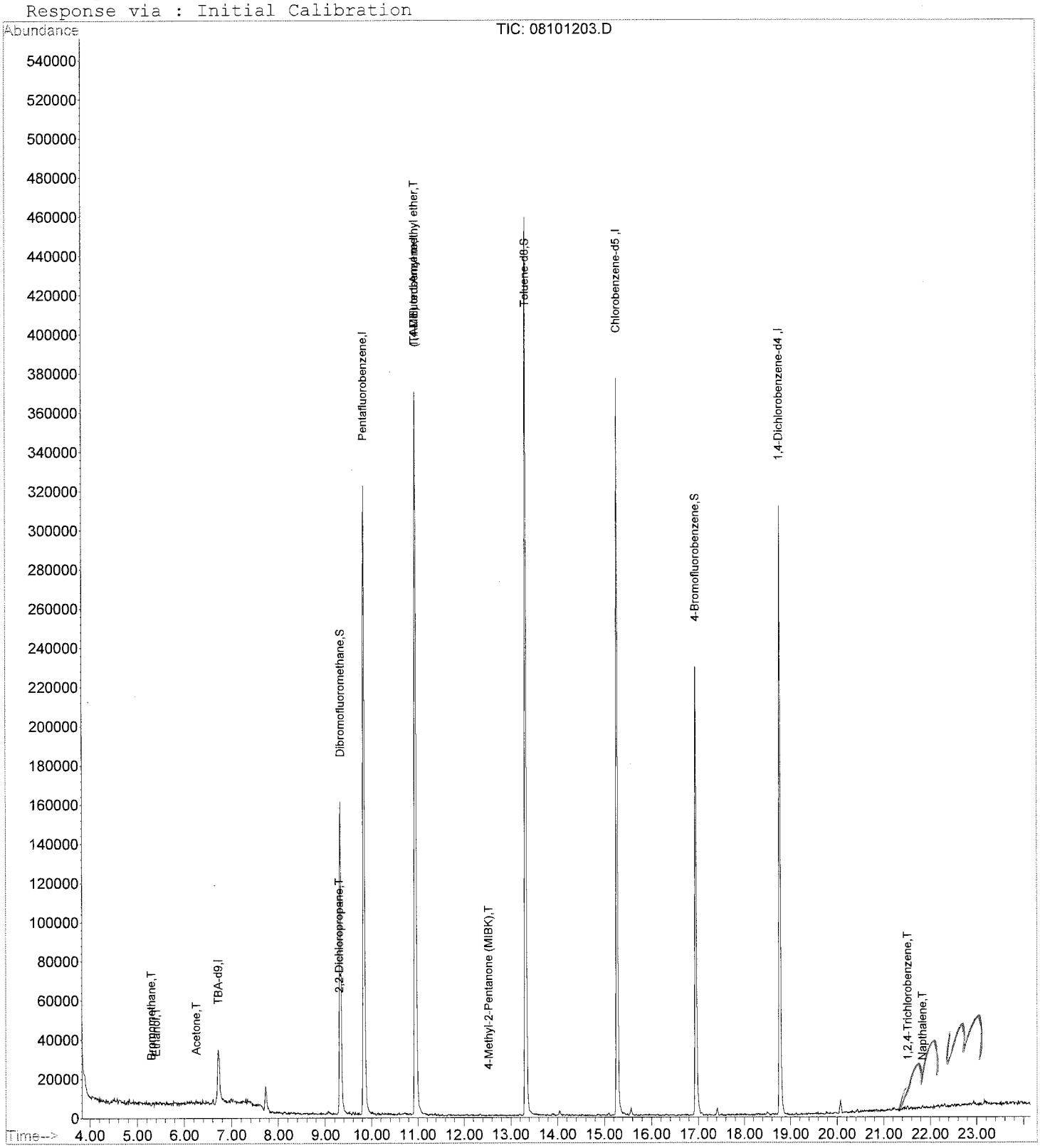
MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101203.D 081012.M Mon Aug 13 05:12:42 2012

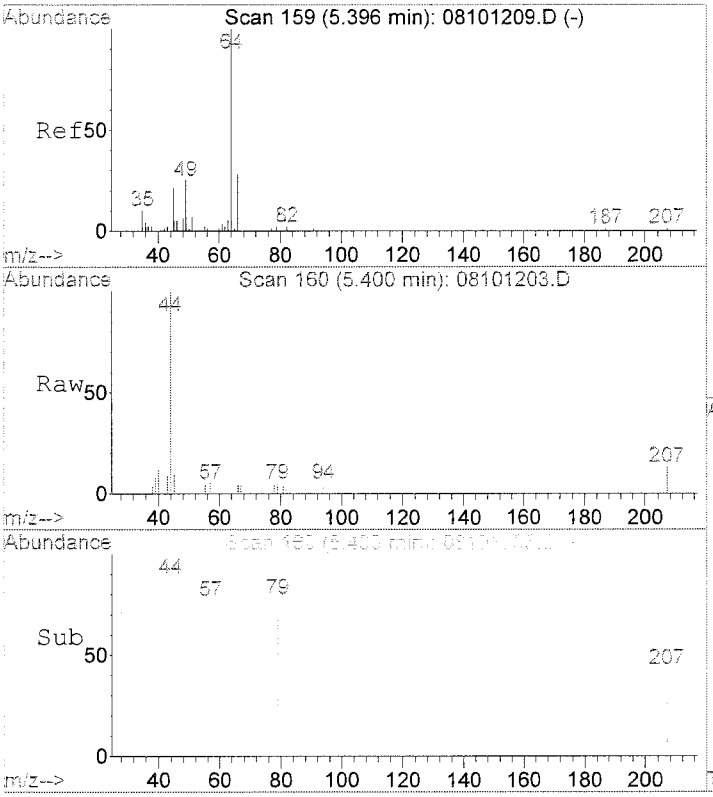
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



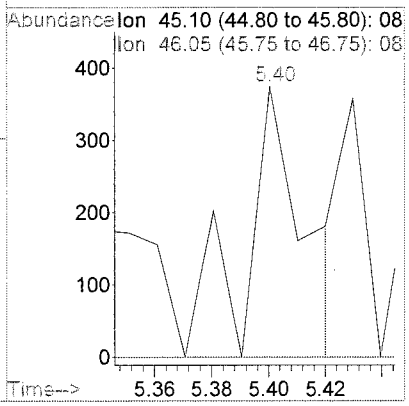
08101203.D 081012.M Mon Aug 13 05:12:43 2012

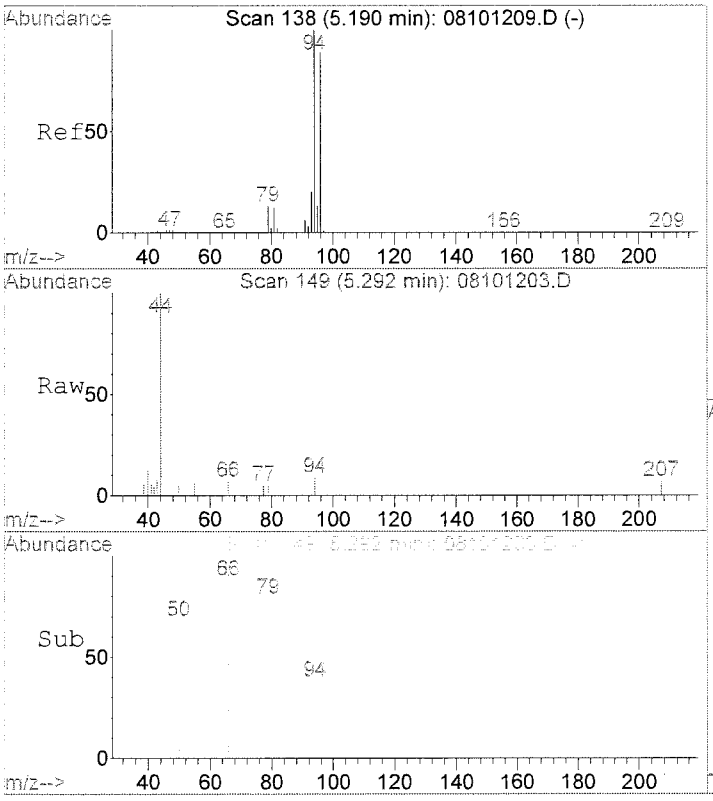


#2
Ethanol
Concen: 18.33 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 543

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.9	79.9#

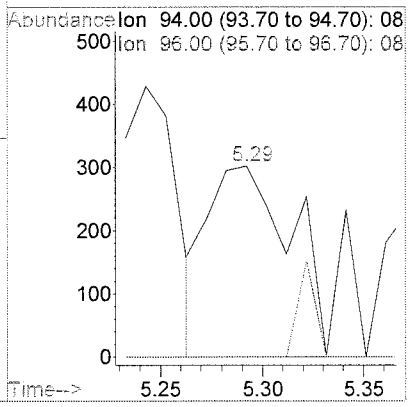


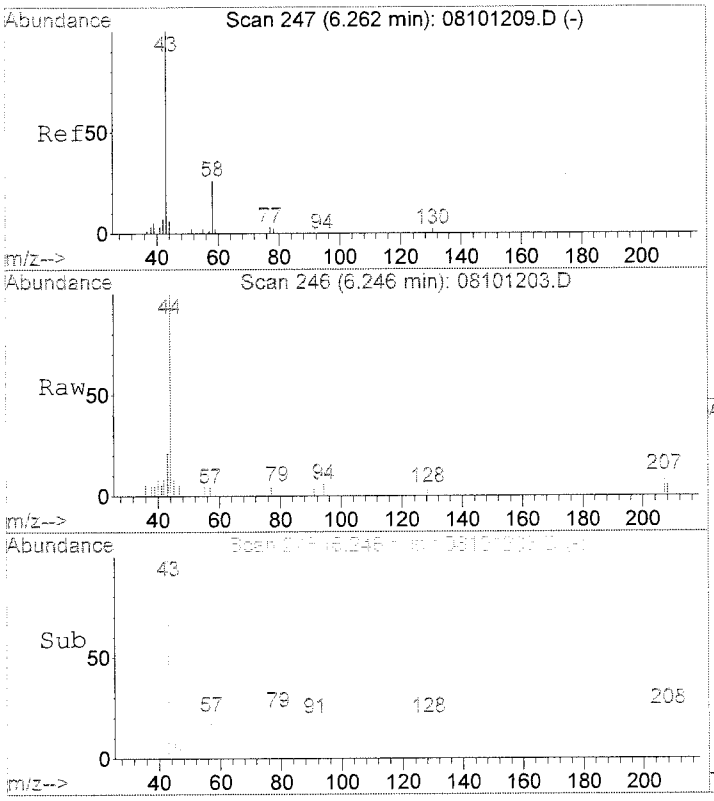


#9
Bromomethane
Concen: 0.14 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

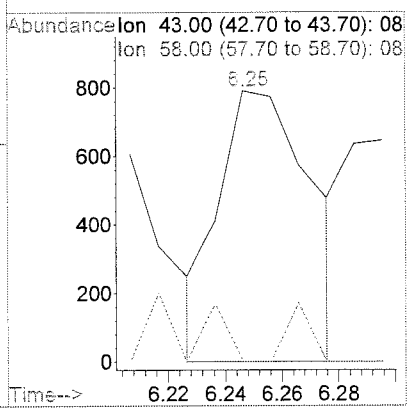


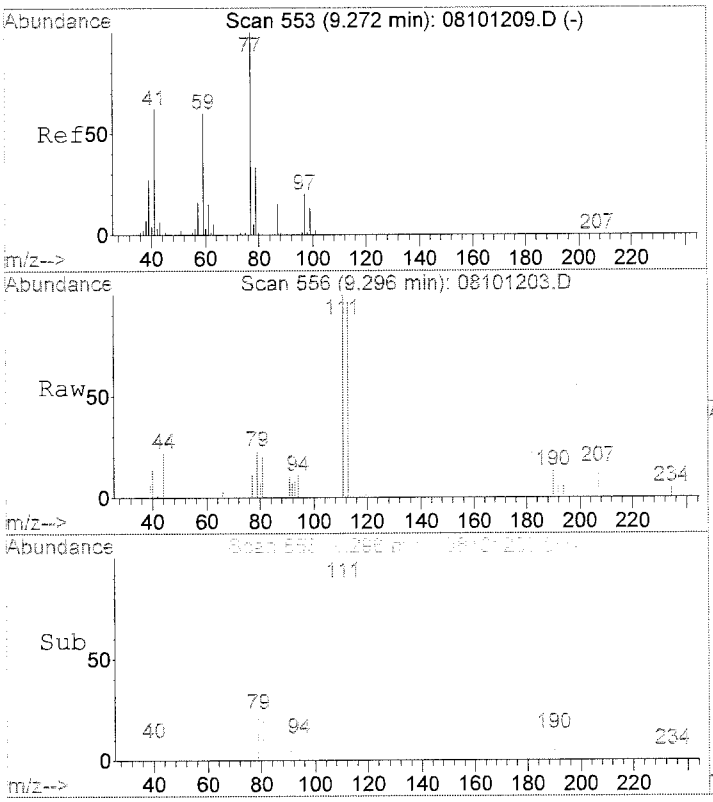


#12
Acetone
Concen: 1.38 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	25.9	38.9#

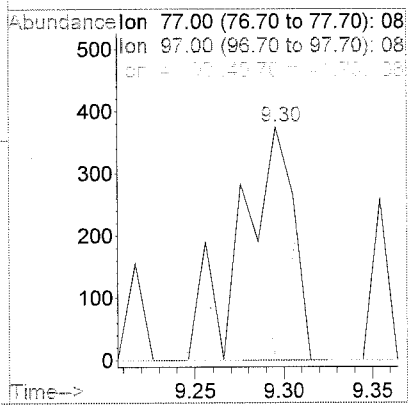


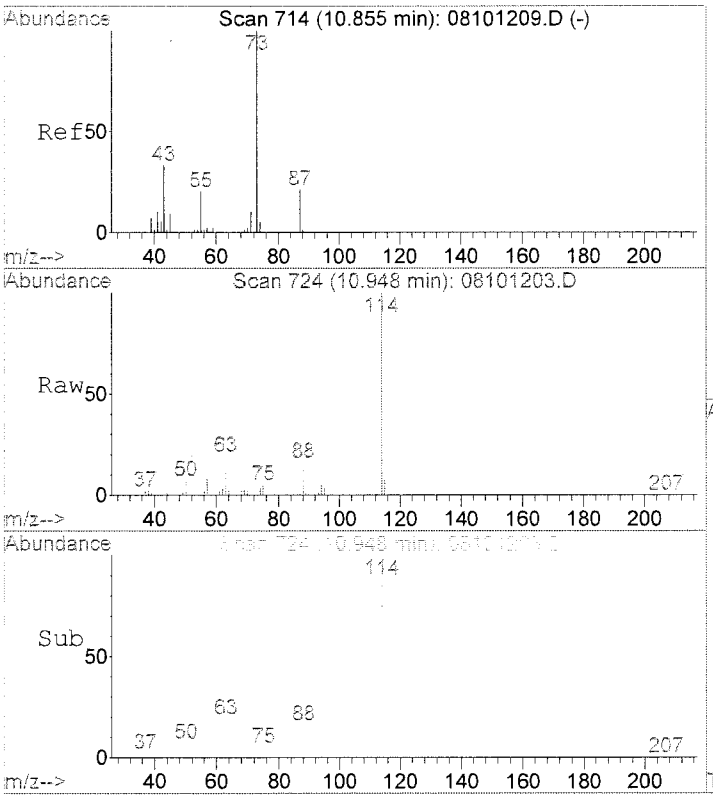


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.9	25.3#
41	52.9	64.1	96.1#

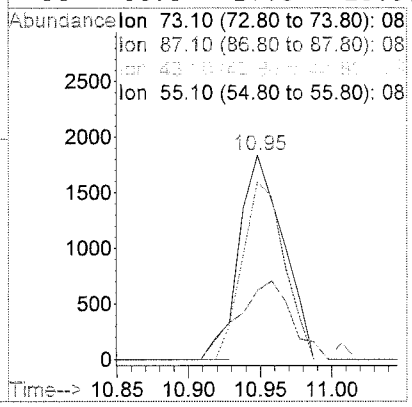


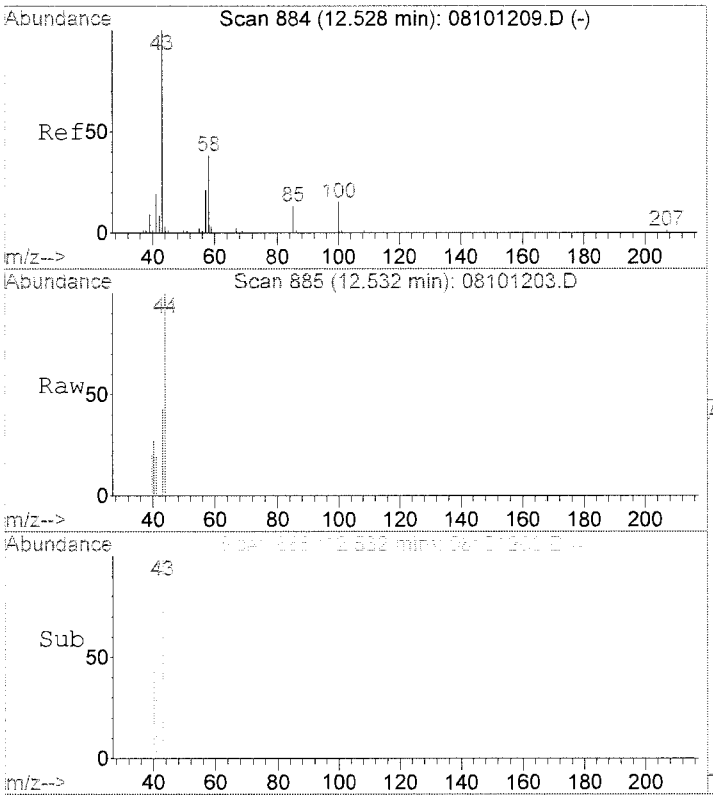


#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	16.4	24.6#
43	5.7	27.0	40.4#
55	46.5	17.3	25.9#

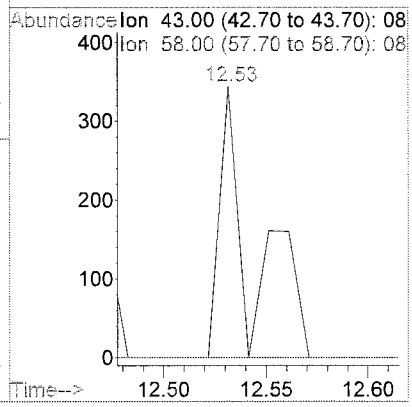


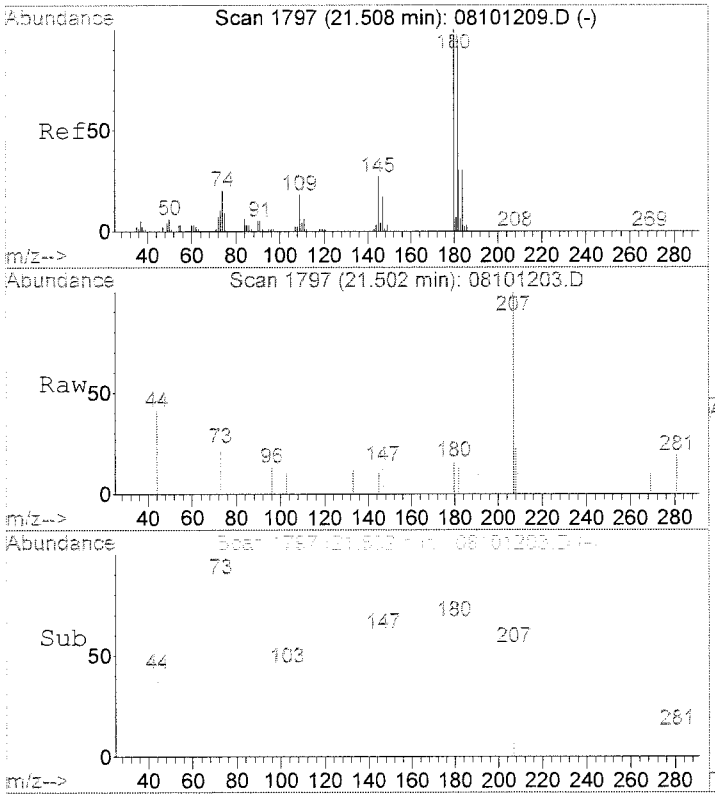


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.53 min Scan# 885
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

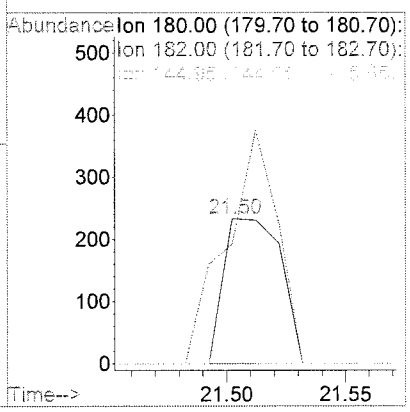


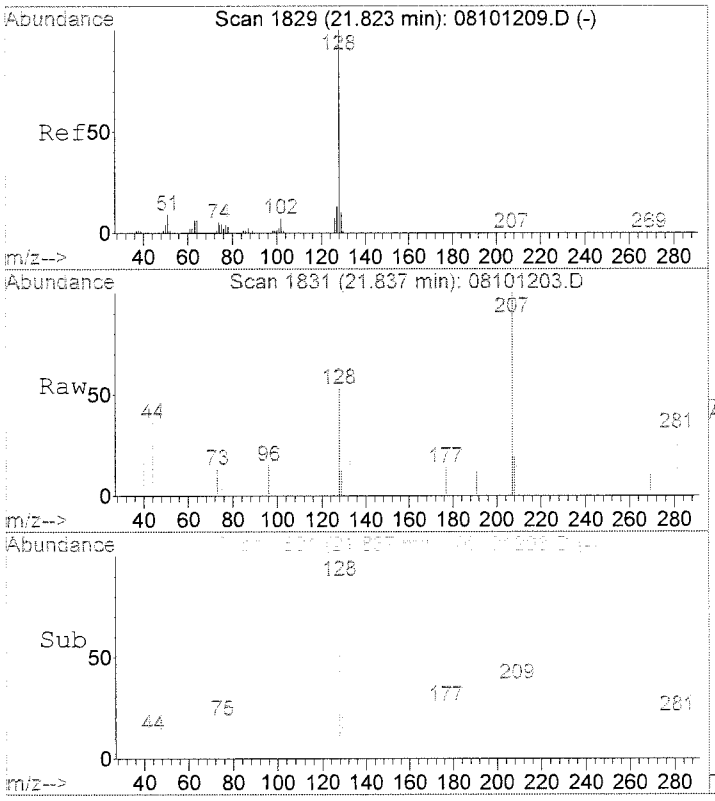


#83
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	77.9	116.9#
145	25.5	22.8	34.2

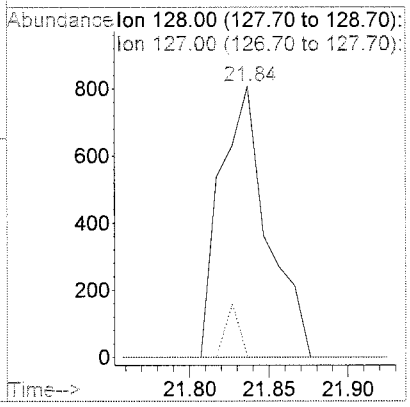


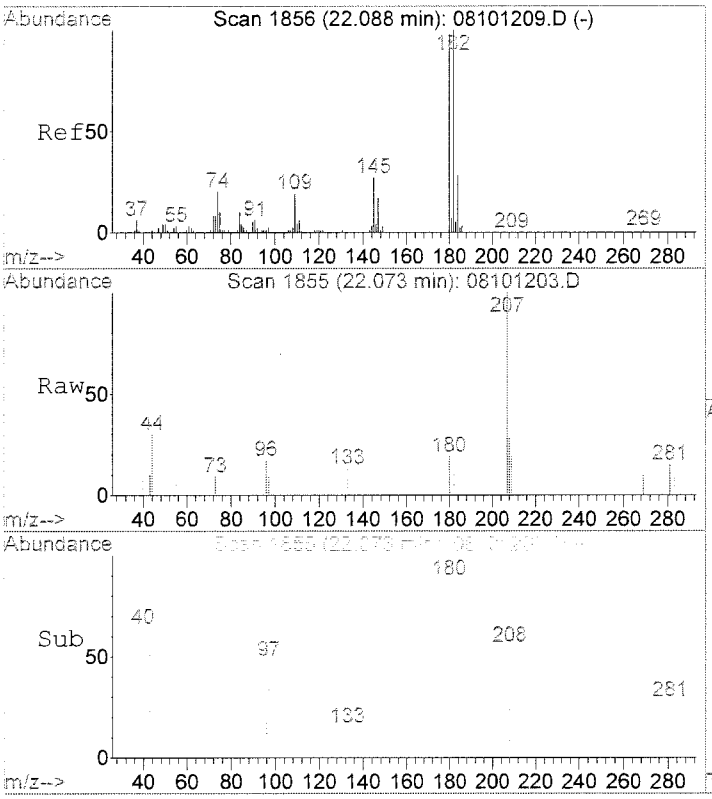


#84
Napthalene
Concen: 0.29 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.4#

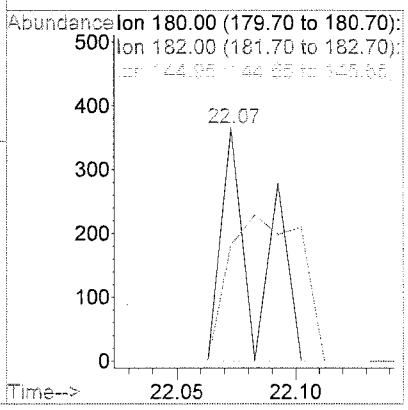




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.07 min Scan# 1855
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 380

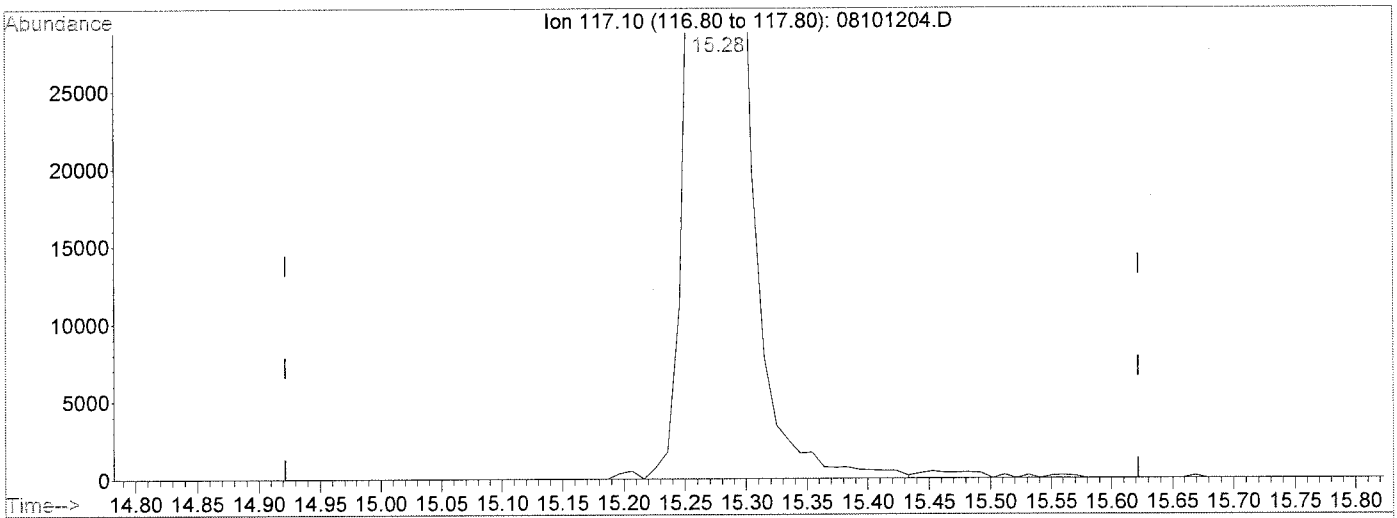
Ion	Ratio	Lower	Upper
180	100		
182	127.1	78.9	118.3#
145	28.2	23.2	34.8

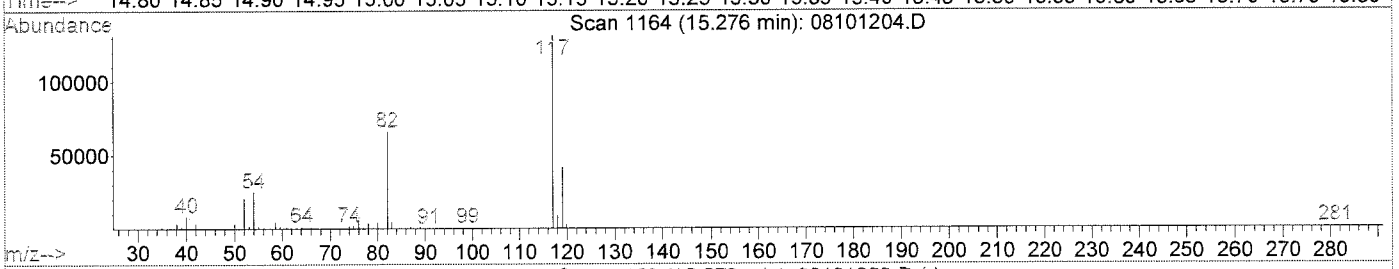


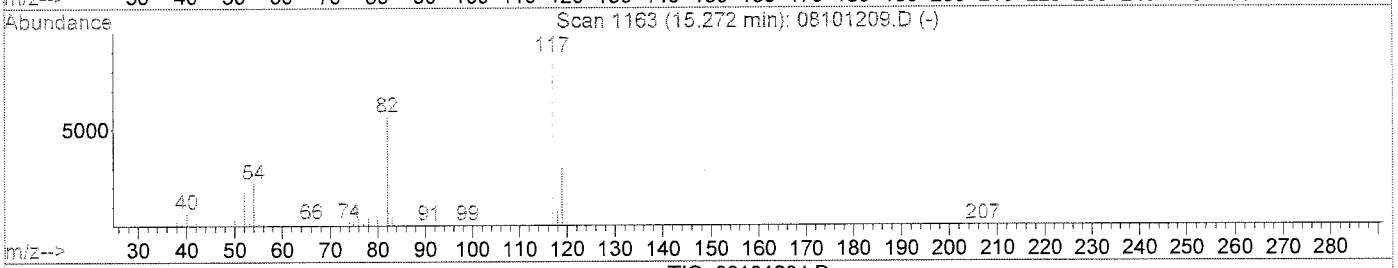
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

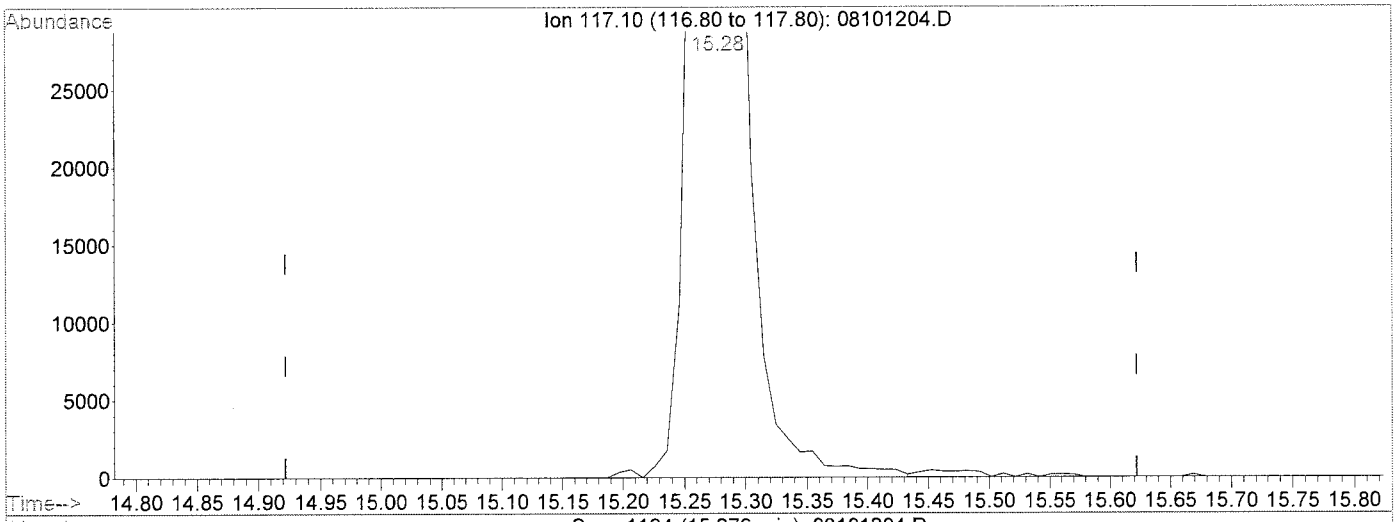
8/13/12

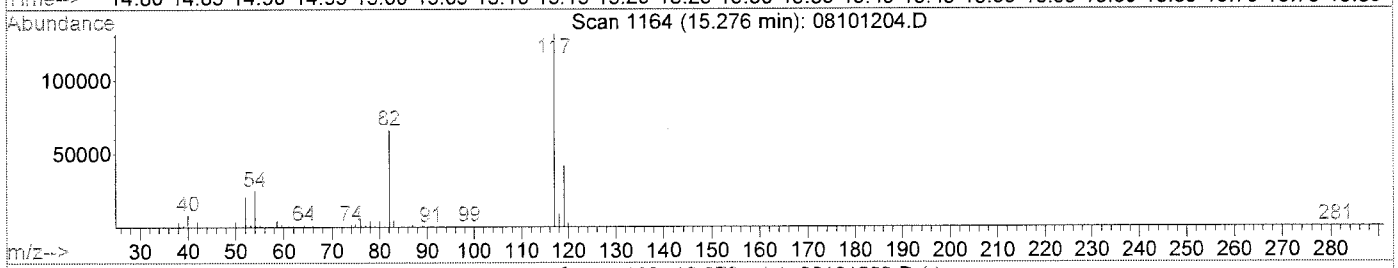
CE MNM 8/13/12

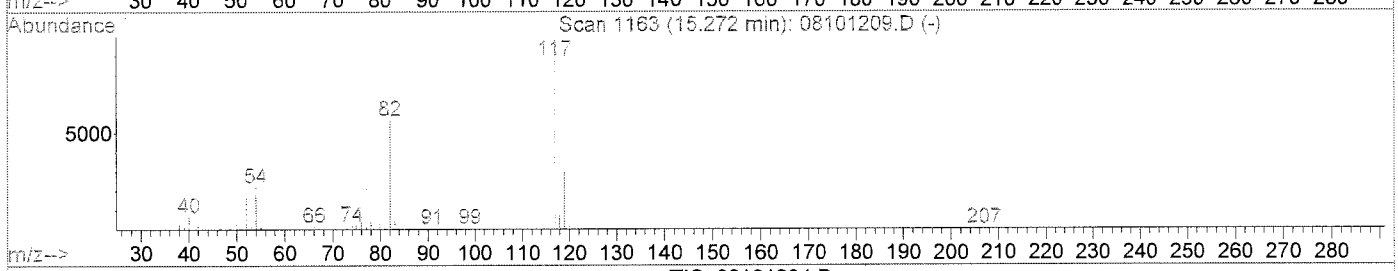
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285234

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285234m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 1.88%	
48) Toluene-d8	13.33	98	8308	0.53 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.12%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.04%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.53 ug/L	99
6) Chloromethane	4.35	50	5533	0.53 ug/L	97
7) Vinyl Chloride	4.63	62	5041	0.53 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.46 ug/L #	88
11) Trichlorofluoromethane	6.11	101	4136	0.49 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.48 ug/L	95
14) 1,1-Dichloroethene	6.81	96	3218	0.55 ug/L	95
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	83
16) Freon 113	7.08	101	3192	0.53 ug/L	97
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	17
18) trans-1,2-Dichloroethene	7.86	96	3858	0.57 ug/L #	80
19) MTBE	8.01	73	4605	0.48 ug/L	98
20) 1,1-Dichloroethane	8.18	63	5100	0.48 ug/L #	94
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.46 ug/L #	59
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.49 ug/L #	90
25) cis-1,2-Dichloroethene	8.91	96	3145	0.51 ug/L	86
26) Bromochloromethane	9.13	128	1212	0.50 ug/L	85
27) Chloroform	9.17	83	4473	0.49 ug/L #	91
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.52 ug/L	98
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.45 ug/L #	93
33) 1,1,1-Trichloroethane	10.14	97	3906	0.51 ug/L	92
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.56 ug/L	95
36) 1,1-Dichloropropene	10.37	75	4256	0.50 ug/L #	83
37) Carbon Tetrachloride	10.60	117	3505	0.53 ug/L #	97
38) Benzene	10.66	78	10648	0.53 ug/L	98
39) Dibromomethane	11.40	93	1079	0.45 ug/L #	89
40) 1,2-Dichloropropane	11.43	63	2436	0.51 ug/L #	79

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	2807	0.50 ug/L	97
42)	Bromodichloromethane	11.55	83	2375	0.43 ug/L #	87
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.46 ug/L	90
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d	
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.48 ug/L	95
47)	1,1,2-Trichloroethane	13.17	97	939	0.34 ug/L #	82
49)	Toluene	13.43	92	5962	0.52 ug/L #	97
51)	1,3-Dichloropropane	13.49	76	2084	0.41 ug/L #	86
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.85	129	1416	0.39 ug/L	91
54)	1,2-Dibromoethane	14.18	107	1351	0.44 ug/L	95
55)	Tetrachloroethene	14.41	164	2667	0.53 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.53 ug/L #	1
57)	Chlorobenzene	15.32	112	5746	0.49 ug/L	98
58)	Ethylbenzene	15.58	91	10303	0.50 ug/L	98
59)	m,p-Xylenes	15.84	106	3739	0.48 ug/L	82
60)	Styrene	16.30	104	5068	0.48 ug/L	95
61)	o-Xylene	16.40	106	3948	0.55 ug/L #	94
64)	Bromoform	16.01	173	894	0.43 ug/L	86
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.51 ug/L #	89
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	9688	0.53 ug/L	95
69)	Bromobenzene	17.24	156	2141	0.48 ug/L	99
70)	n-Propylbenzene	17.51	91	12373	0.53 ug/L	91
71)	2-Chlorotoluene	17.65	91	6496	0.52 ug/L	94
72)	4-Chlorotoluene	17.75	91	6322	0.52 ug/L	94
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.52 ug/L	100
74)	tert-Butylbenzene	18.31	119	6960	0.55 ug/L #	95
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.52 ug/L	96
76)	sec-Butylbenzene	18.61	105	11286	0.55 ug/L	92
77)	1,3-Dichlorobenzene	18.72	146	4471	0.55 ug/L	99
78)	1,4-Dichlorobenzene	18.81	146	4553	0.57 ug/L #	92
79)	p-Isopropyltoluene	18.86	119	7691	0.50 ug/L	91
80)	1,2-Dichlorobenzene	19.28	146	3801	0.58 ug/L	96
81)	n-Butylbenzene	19.40	91	7498	0.51 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.58 ug/L #	87
84)	Napthalene	21.83	128	3246	0.57 ug/L #	75
85)	Hexachlorobutadiene	21.89	225	1870	0.40 ug/L #	83
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.49 ug/L #	80

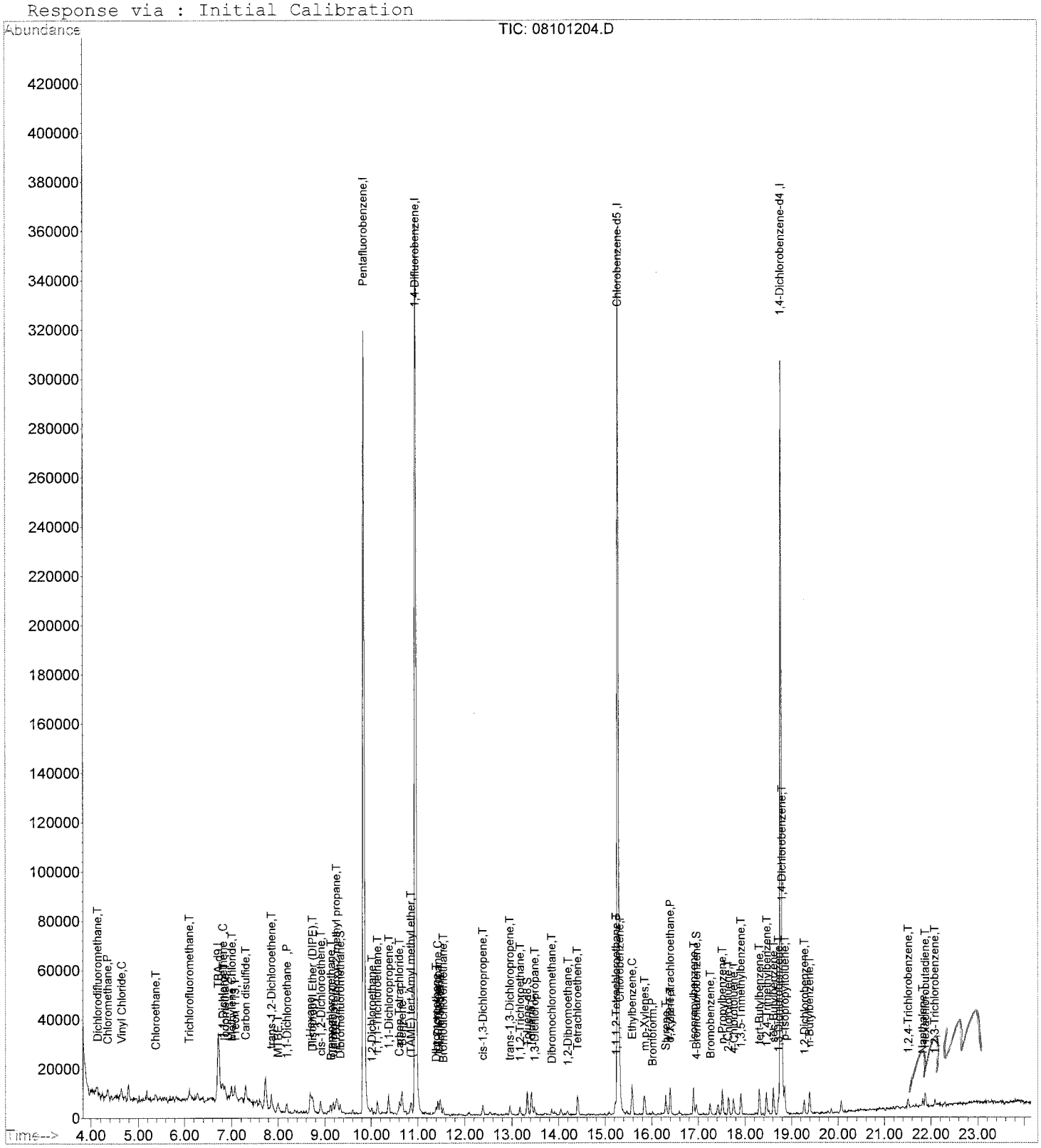
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 081012.M Mon Aug 13 05:15:56 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

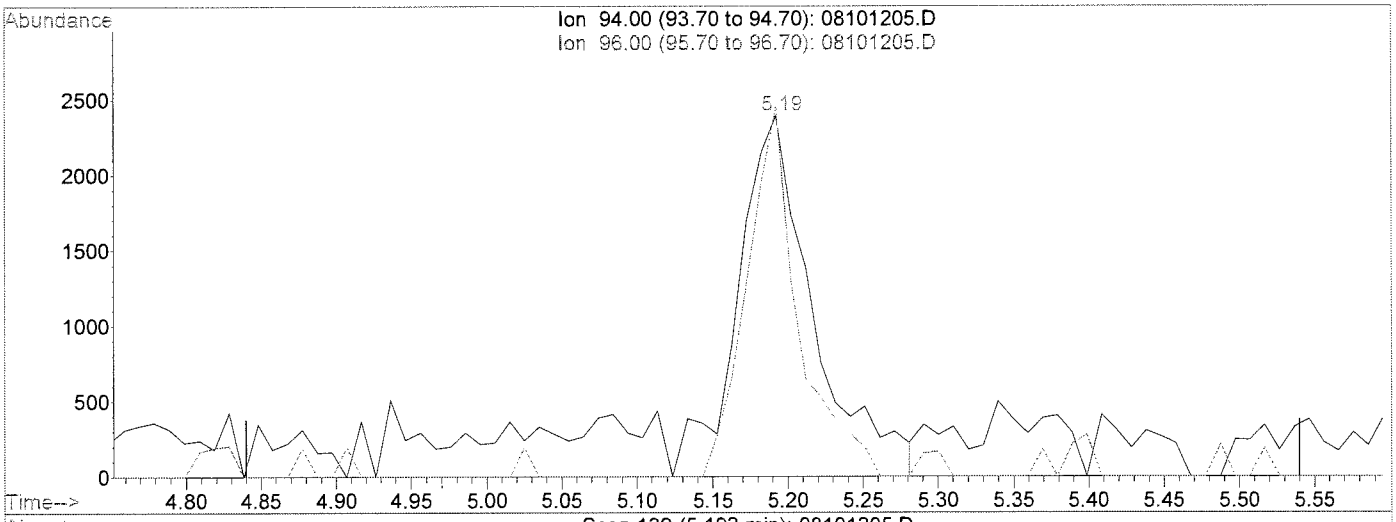
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

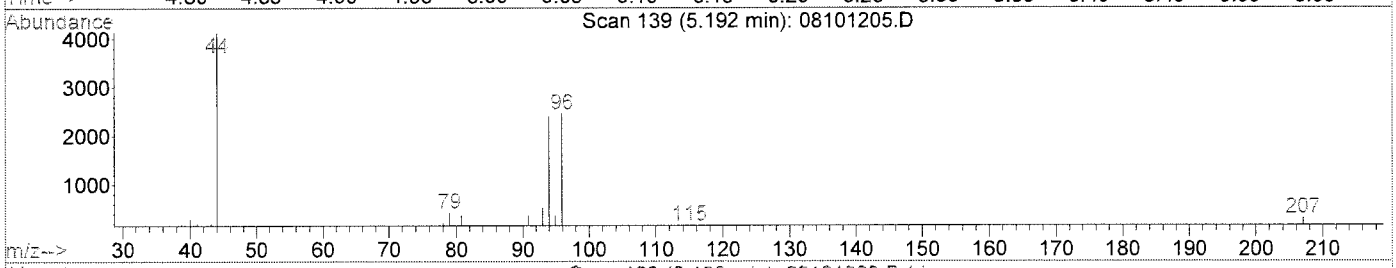


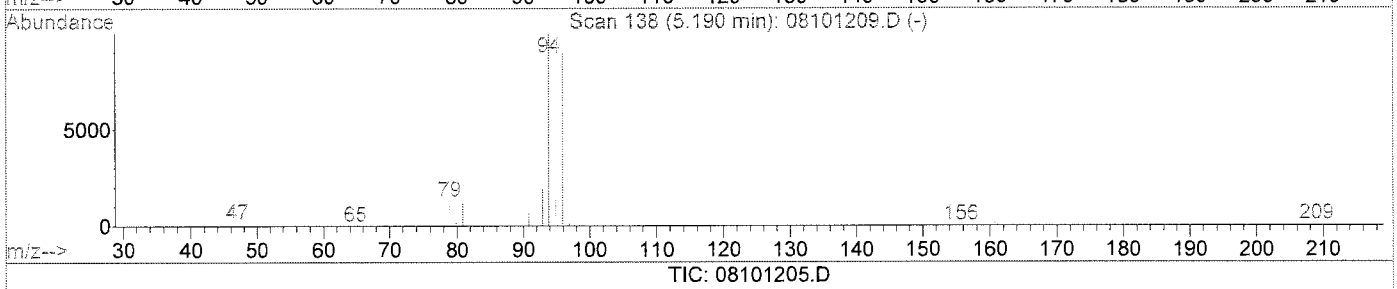
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.46ug/L

response 8343

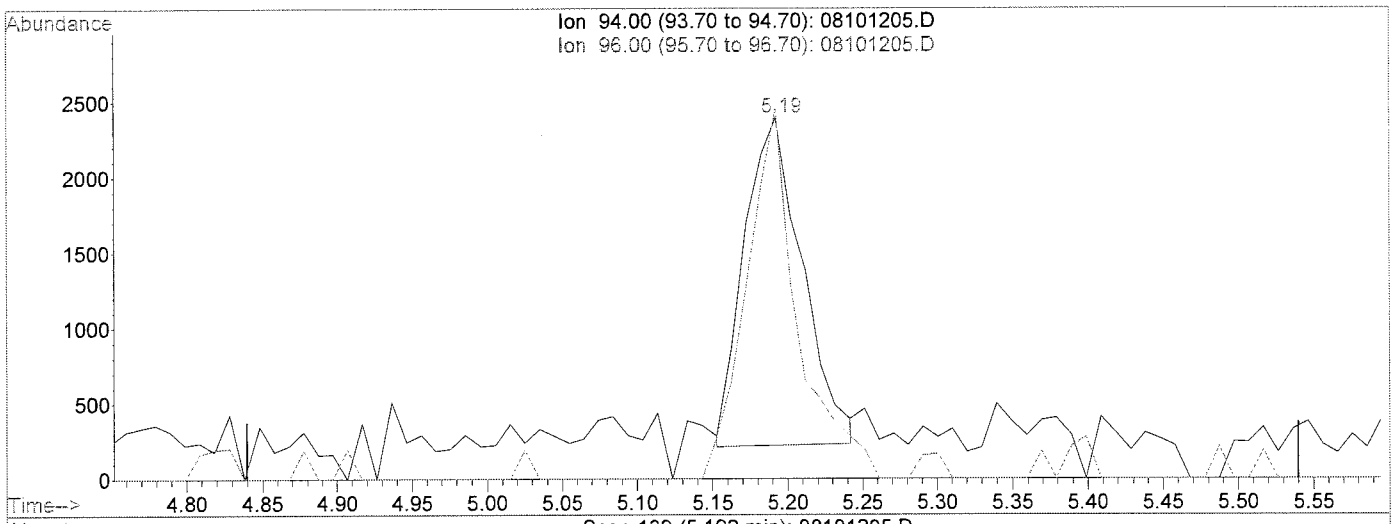
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

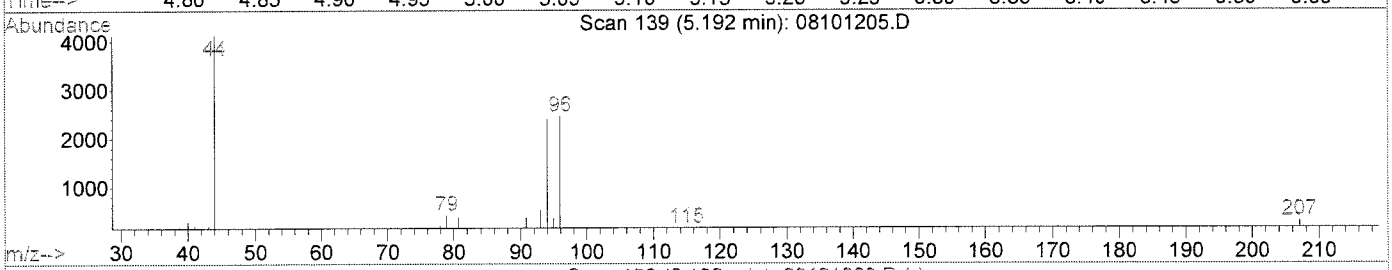
B 8/13/12
BL
MM 8/13/12

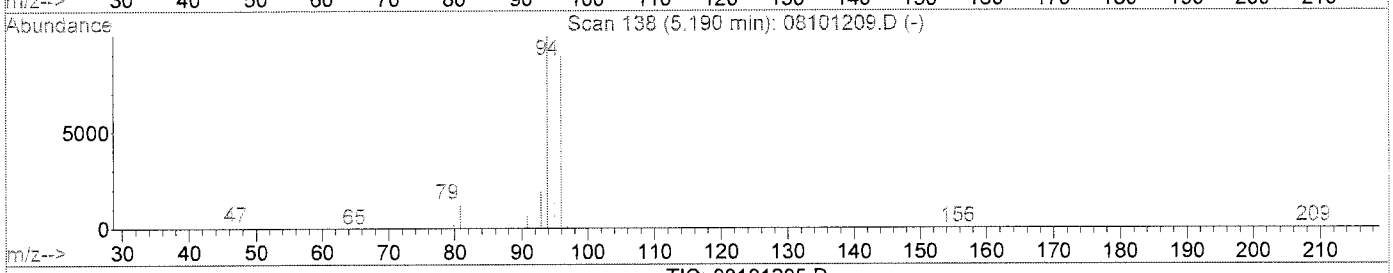
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.02ug/L m

response 5828

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	100.57
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12 T

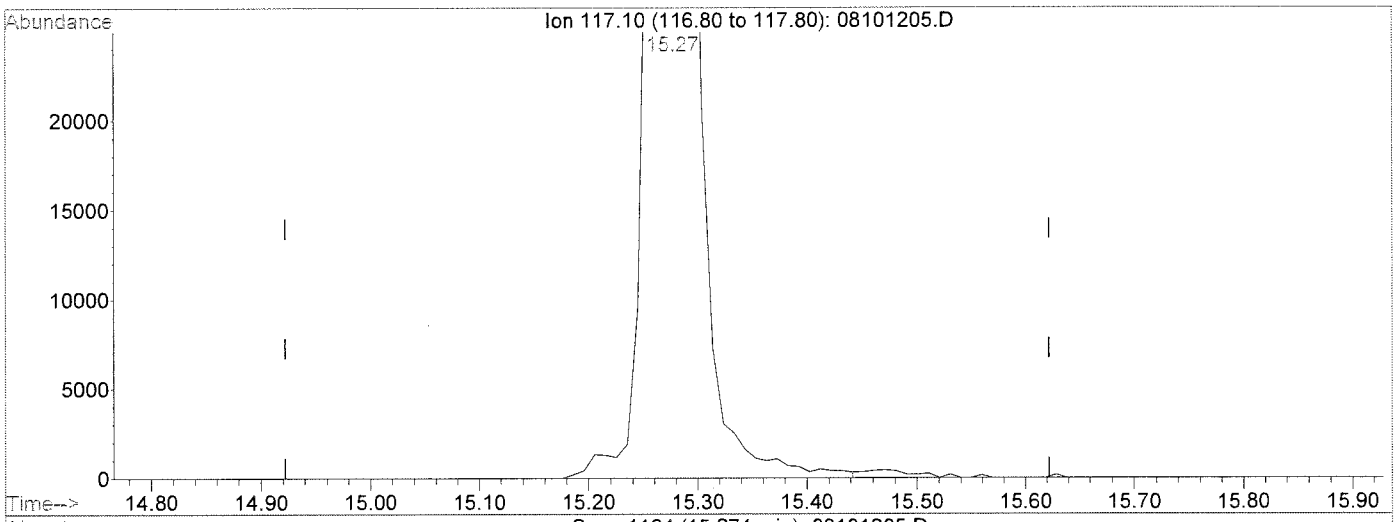
A

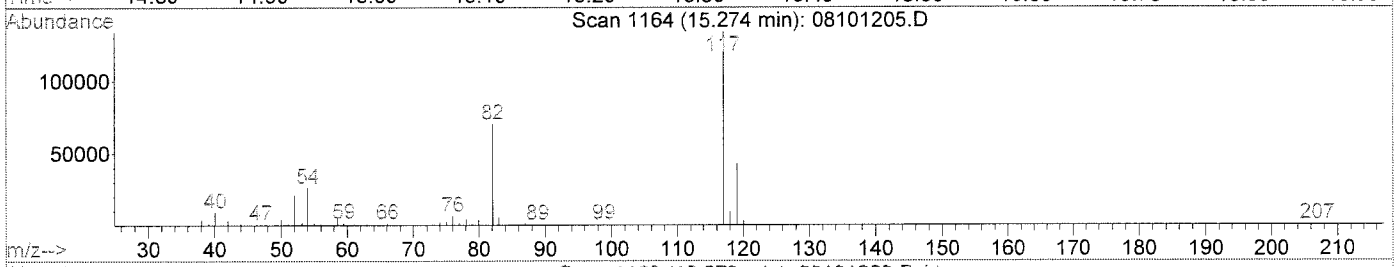
MM 8/13/12

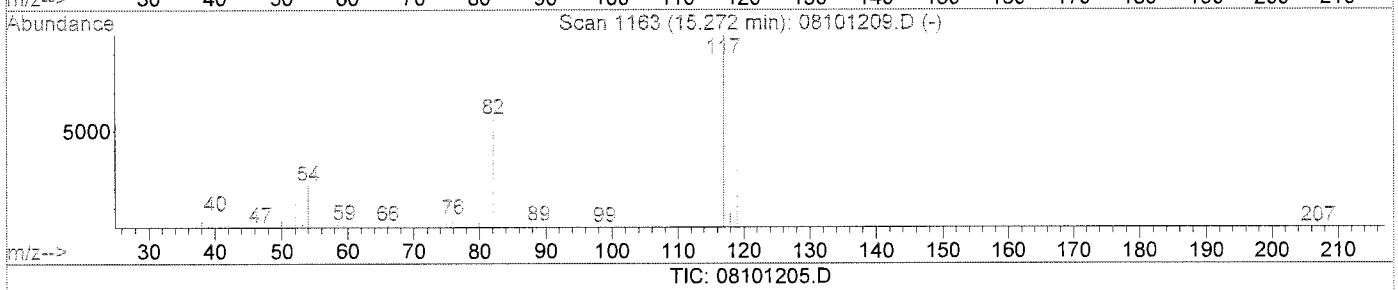
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

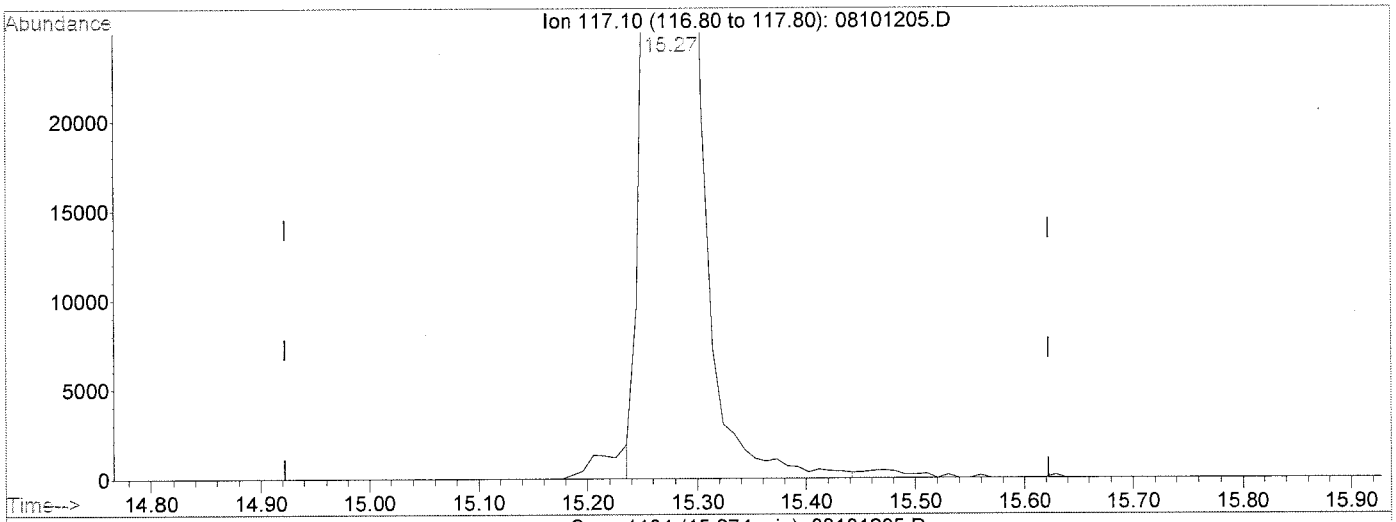
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

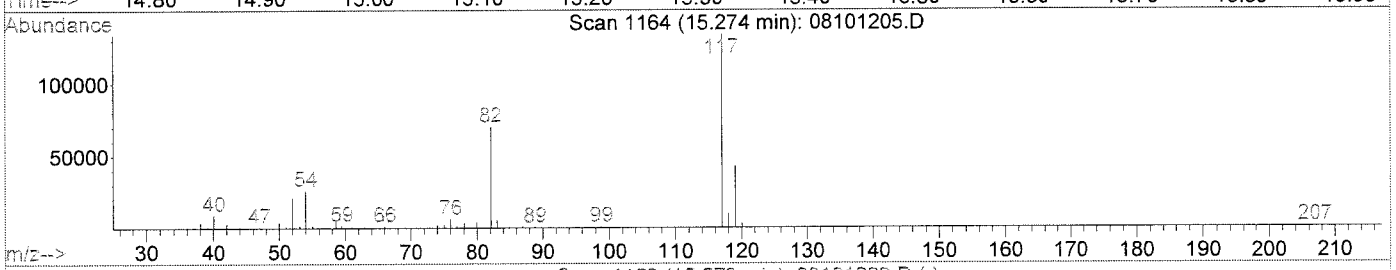
8/13/12
B
CE
MM 8/13/12

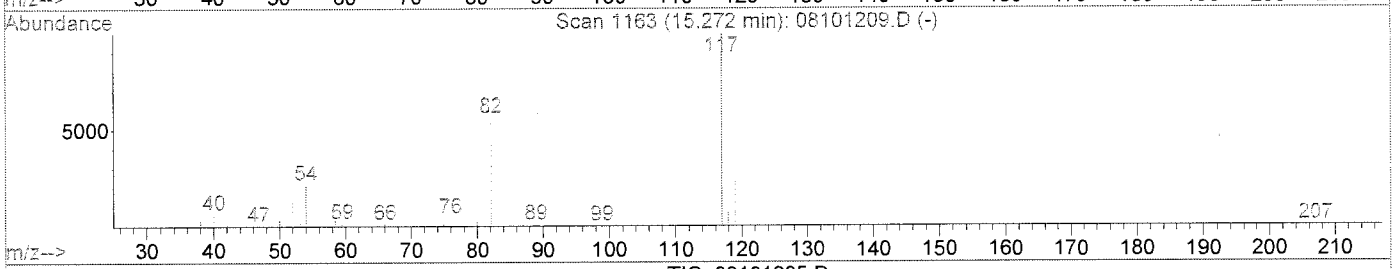
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 288608

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	288608m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	
48) Toluene-d8	13.33	98	15044	0.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.68%	
62) 4-Bromofluorobenzene	16.96	95	4337	0.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.88%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.02 ug/L	99
6) Chloromethane	4.36	50	11345	1.11 ug/L	98
7) Vinyl Chloride	4.63	62	9613	1.03 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	0.96 ug/L #	67
9) Bromomethane	5.19	94	5828m	1.02 ug/L	
10) Chloroethane	5.38	64	4474	0.96 ug/L #	79
11) Trichlorofluoromethane	6.11	101	8147	0.98 ug/L	95
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.06 ug/L	98
14) 1,1-Dichloroethene	6.82	96	6624	1.15 ug/L #	79
15) Methylene Chloride	6.99	84	5669	1.11 ug/L	93
16) Freon 113	7.06	101	5907	0.99 ug/L	96
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	84
18) trans-1,2-Dichloroethene	7.86	96	6803	1.02 ug/L	90
19) MTBE	8.00	73	9909	1.05 ug/L	94
20) 1,1-Dichloroethane	8.18	63	10543	1.02 ug/L	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.05 ug/L	85
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.05 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	6451	1.06 ug/L	98
26) Bromochloromethane	9.12	128	2129	0.88 ug/L	87
27) Chloroform	9.18	83	8439	0.93 ug/L #	84
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.01 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	1.06 ug/L	93
33) 1,1,1-Trichloroethane	10.14	97	6935	0.91 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	0.97 ug/L	95
36) 1,1-Dichloropropene	10.38	75	8845	1.00 ug/L #	91
37) Carbon Tetrachloride	10.61	117	6413	0.93 ug/L	96
38) Benzene	10.66	78	20457	0.97 ug/L	98
39) Dibromomethane	11.39	93	2452	0.99 ug/L	96
40) 1,2-Dichloropropane	11.44	63	5094	1.01 ug/L	95

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.91 ug/L	93
42)	Bromodichloromethane	11.56	83	5117	0.89 ug/L #	99
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.90 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	1.12 ug/L	96
46)	trans-1,3-Dichloropropene	12.96	75	4943	0.96 ug/L	97
47)	1,1,2-Trichloroethane	13.17	97	2959	1.01 ug/L	94
49)	Toluene	13.42	92	10896	0.91 ug/L	97
51)	1,3-Dichloropropane	13.49	76	5303	1.03 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.92 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	0.93 ug/L	98
55)	Tetrachloroethene	14.41	164	4967	0.98 ug/L	93
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.93 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	0.91 ug/L #	80
58)	Ethylbenzene	15.58	91	20863	1.01 ug/L	93
59)	m,p-Xylenes	15.84	106	7380	0.93 ug/L	91
60)	Styrene	16.30	104	9553	0.90 ug/L	97
61)	o-Xylene	16.40	106	7004	0.96 ug/L	98
64)	Bromoform	16.02	173	1913	0.89 ug/L	98
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	0.96 ug/L	96
66)	1,2,3-Trichloropropane	16.58	110	765	0.94 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	0.95 ug/L	98
69)	Bromobenzene	17.25	156	4047	0.89 ug/L	91
70)	n-Propylbenzene	17.51	91	22751	0.96 ug/L	94
71)	2-Chlorotoluene	17.65	91	12533	0.97 ug/L	90
72)	4-Chlorotoluene	17.75	91	12326	0.98 ug/L	93
73)	1,3,5-Trimethylbenzene	17.91	105	13867	0.95 ug/L	99
74)	tert-Butylbenzene	18.30	119	12547	0.96 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	13204	0.96 ug/L	96
76)	sec-Butylbenzene	18.61	105	19700	0.93 ug/L	96
77)	1,3-Dichlorobenzene	18.72	146	7952	0.96 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	7762	0.95 ug/L #	94
79)	p-Isopropyltoluene	18.85	119	15724	0.99 ug/L	98
80)	1,2-Dichlorobenzene	19.28	146	6825	1.01 ug/L	92
81)	n-Butylbenzene	19.40	91	14669	0.97 ug/L	100
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.86 ug/L	87
84)	Napthalene	21.83	128	6316	1.09 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.78 ug/L	96
86)	1,2,3-Trichlorobenzene	22.09	180	2981	0.84 ug/L	90

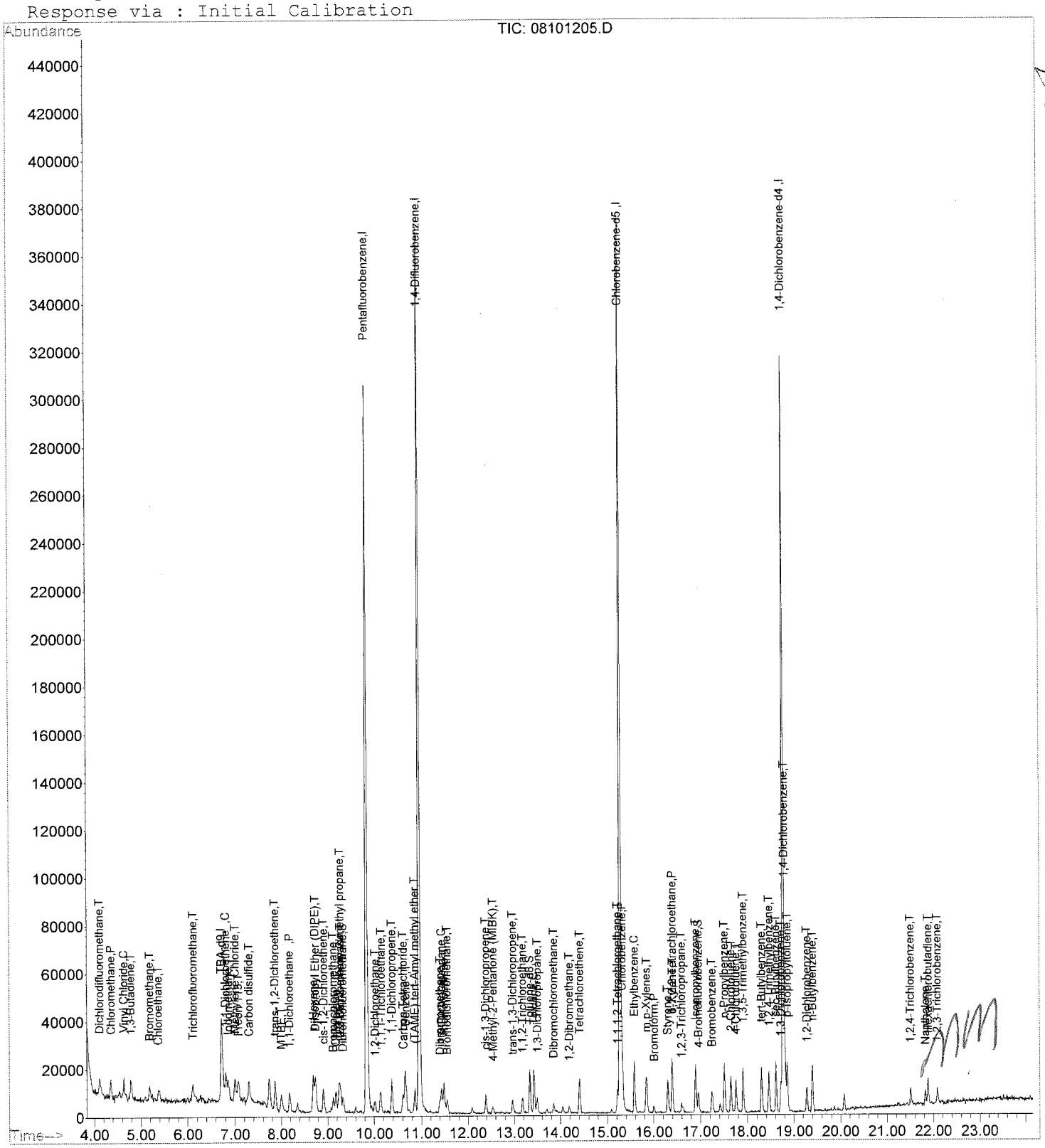
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

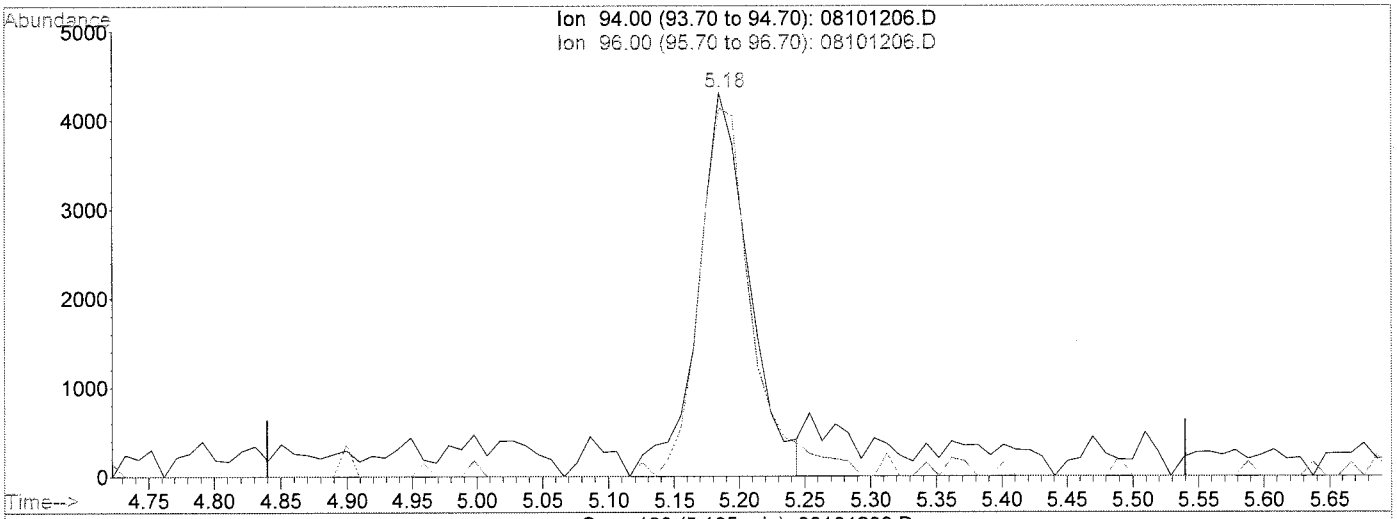
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

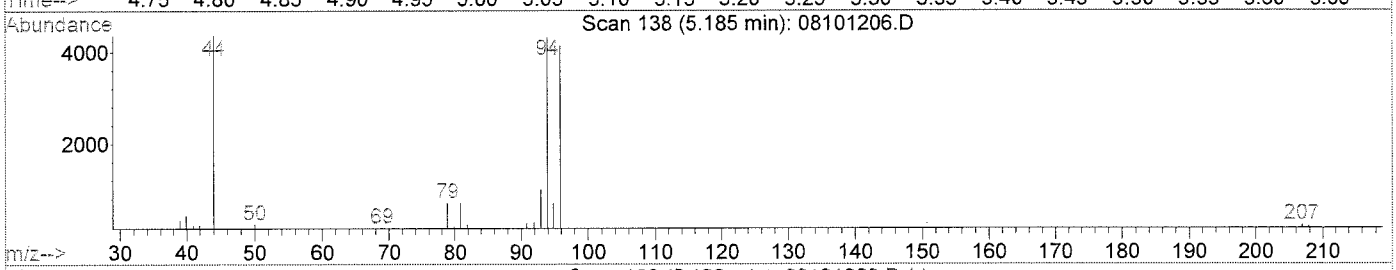


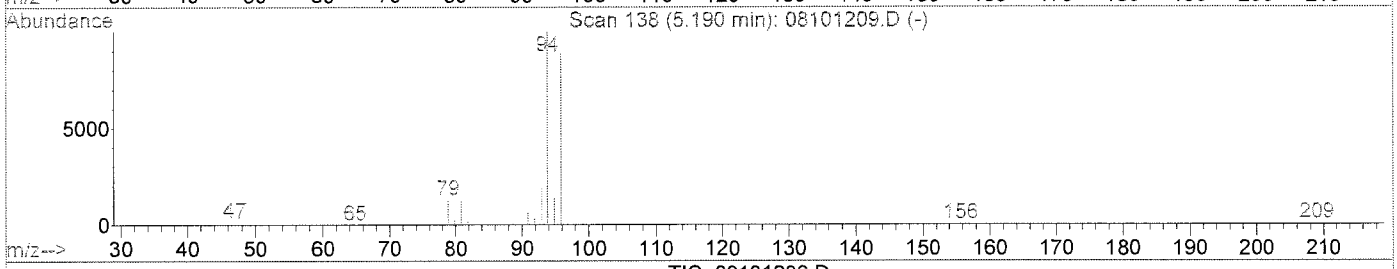
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.07ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

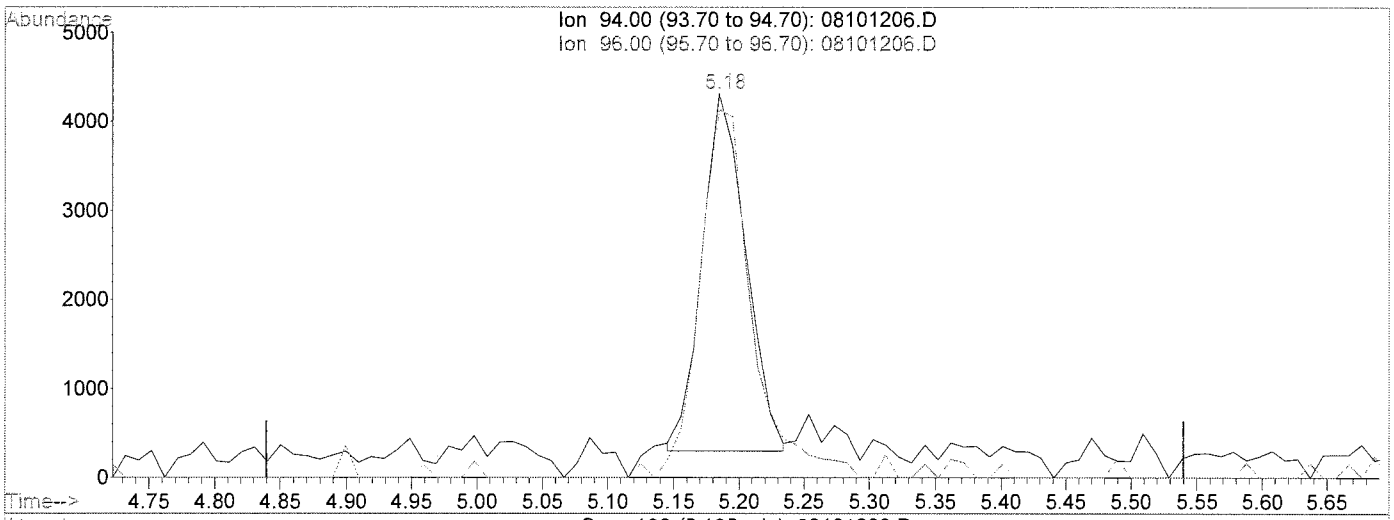
BL

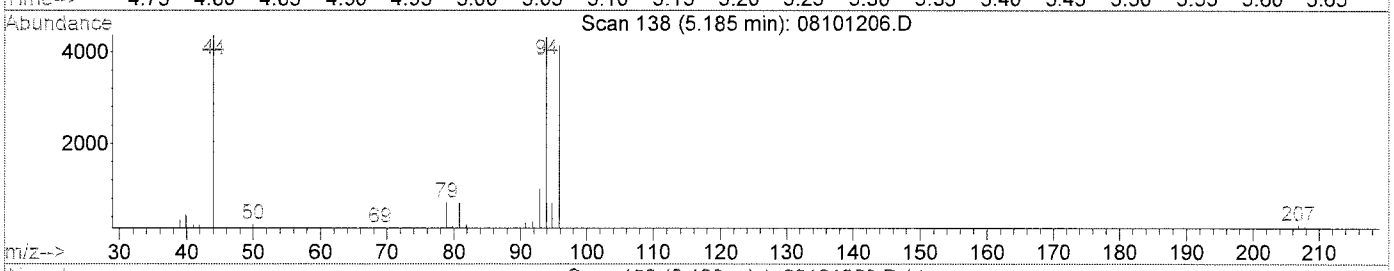
MM 8/13/12

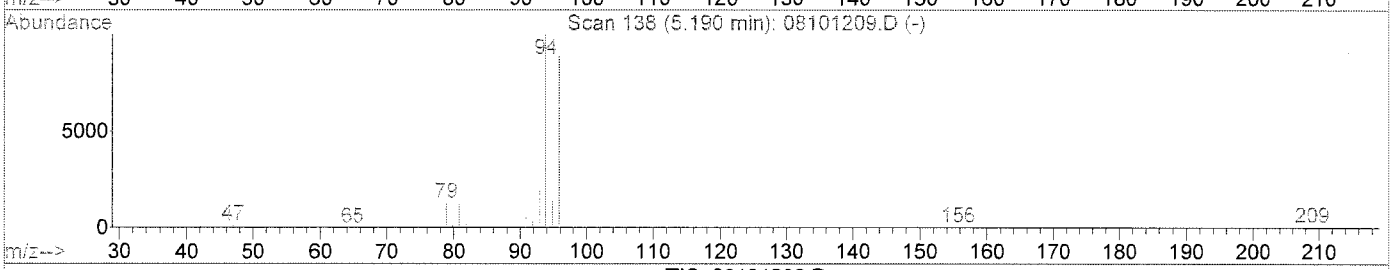
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.65ug/L m

response 9335

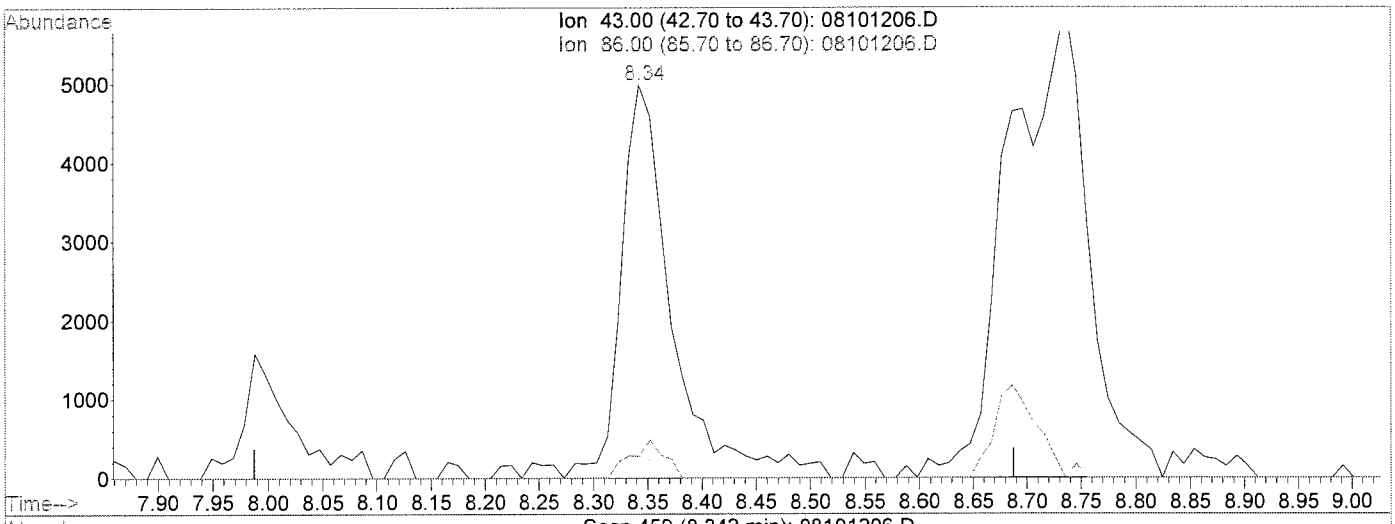
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	124.10#
0.00	0.00	0.00
0.00	0.00	0.00

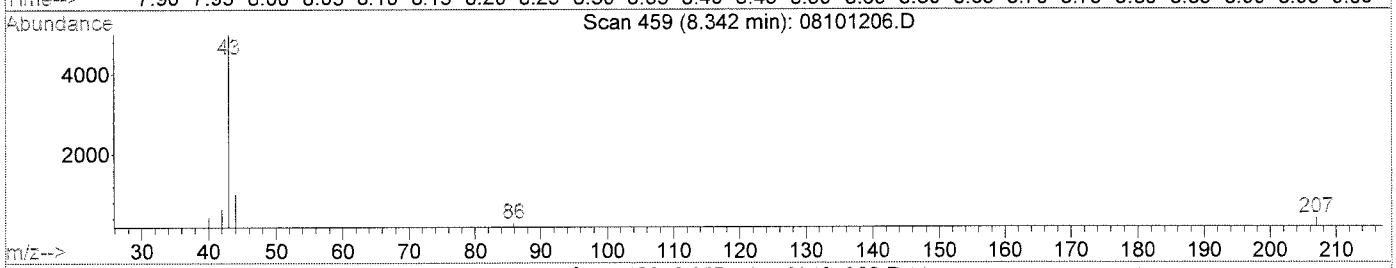
CMM 8/13/12

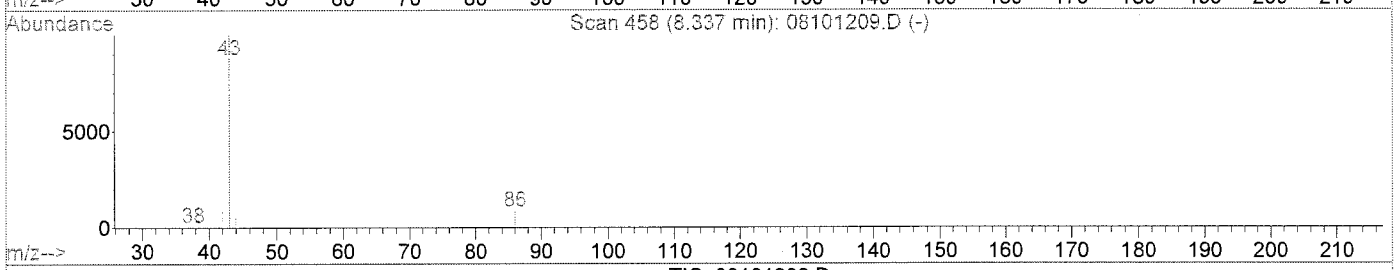
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

Ion	Exp%	Act%
43.00	100	100
86.00	7.90	6.41
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

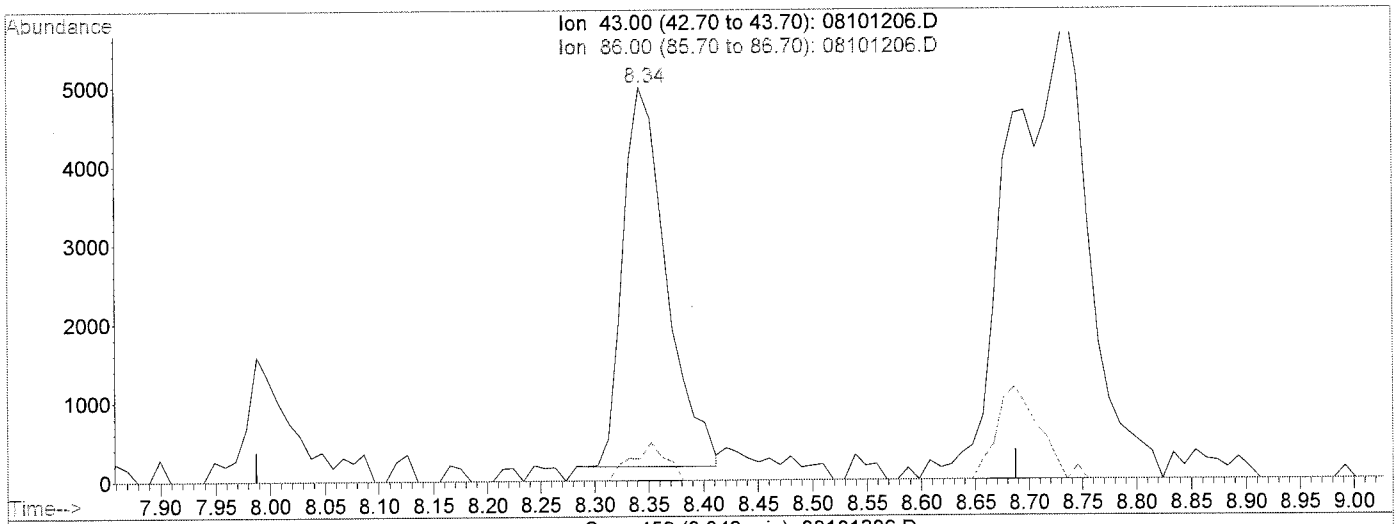
BL

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



✓ 8/13/12

(21) Vinyl Acetate (T)

8.34min 1.83ug/L m

response 13334

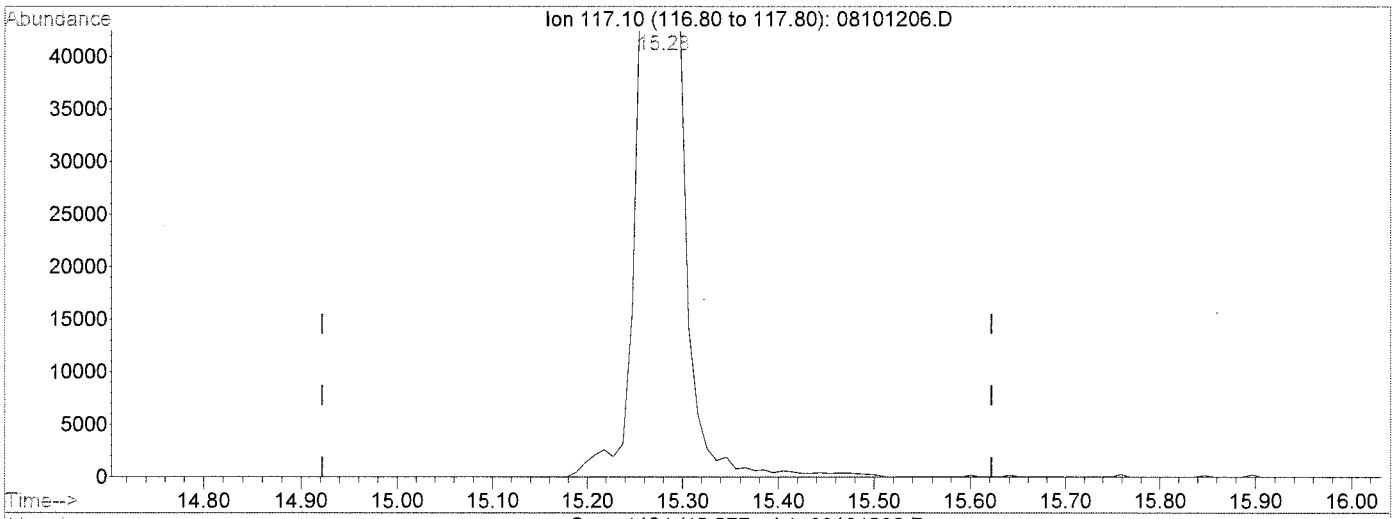
Ion	Exp%	Act%
43.00	100	100
86.00	7.90	7.85
0.00	0.00	0.00
0.00	0.00	0.00

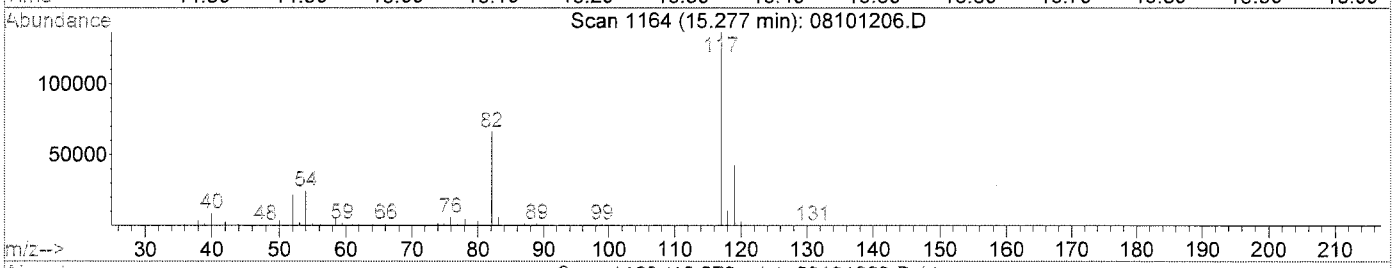
MM 8/13/12

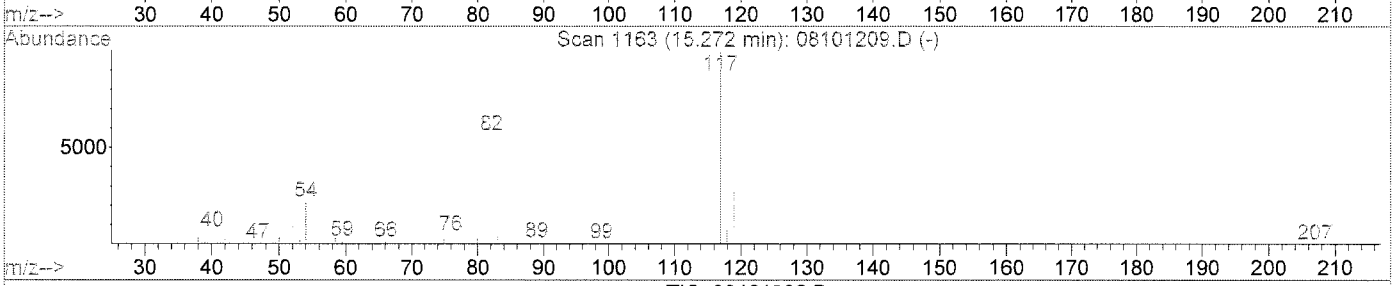
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

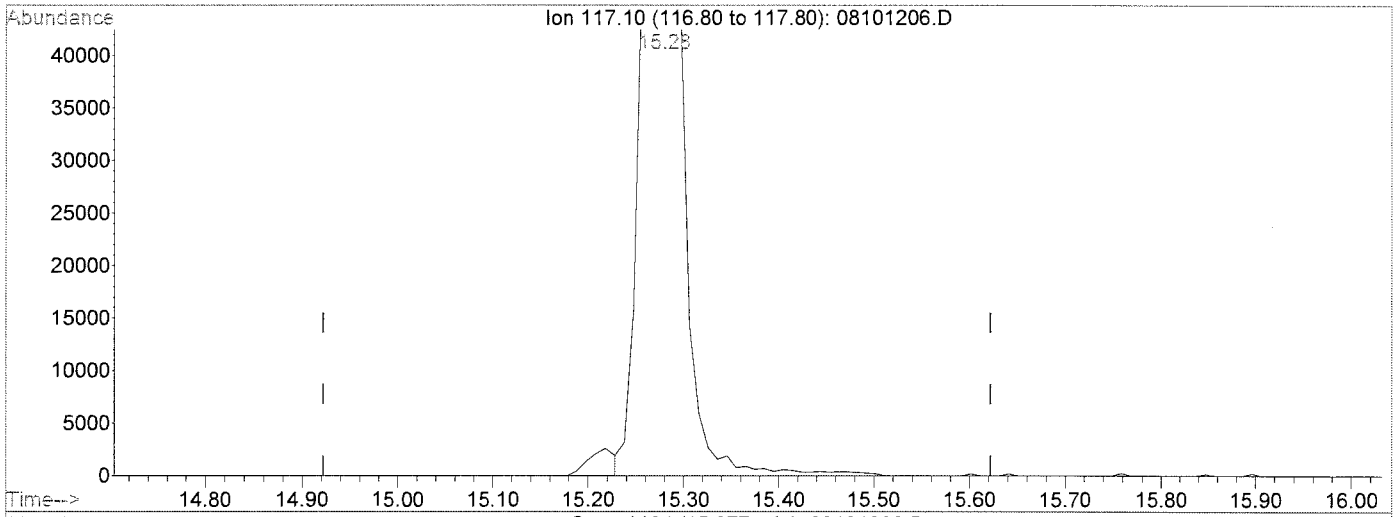
8/13/12

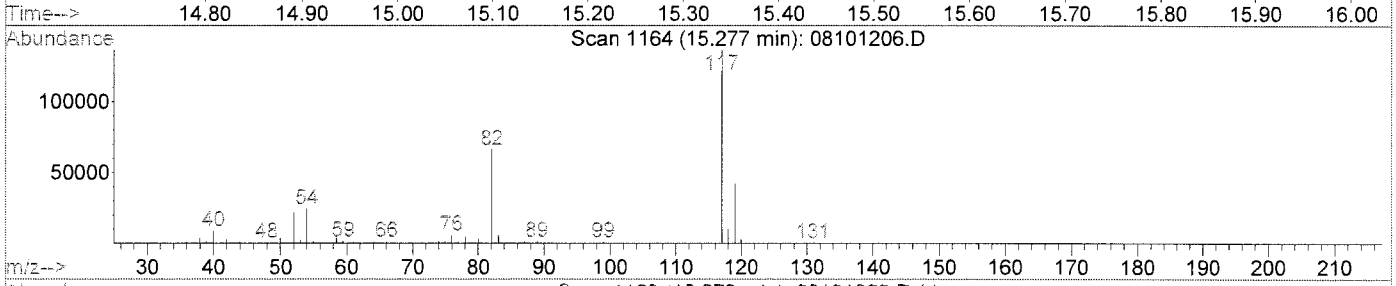
B
CE
MM 8/13/12

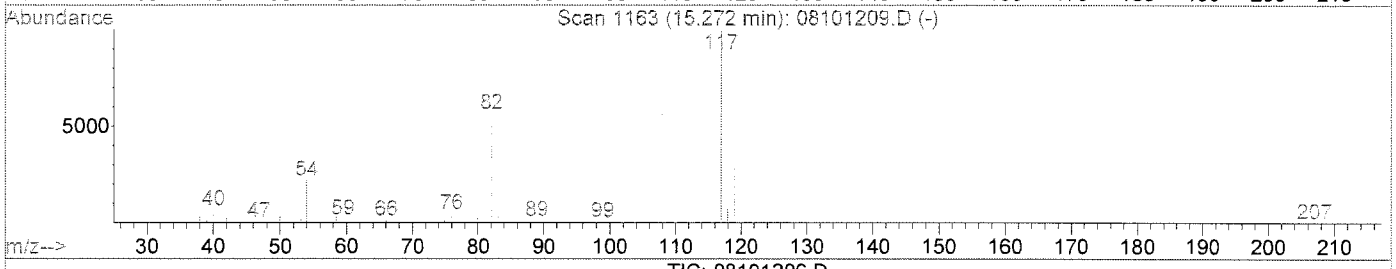
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293339

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293339m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.84%	
48) Toluene-d8	13.33	98	34659	2.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.80%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.36%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.71 ug/L	100
5) Dichlorodifluoromethane	4.11	85	19360	1.86 ug/L	88
6) Chloromethane	4.35	50	19442	1.92 ug/L	98
7) Vinyl Chloride	4.62	62	18295	1.97 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	1.90 ug/L	89
9) Bromomethane	5.18	94	9335m	1.65 ug/L	
10) Chloroethane	5.39	64	9047	1.97 ug/L #	84
11) Trichlorofluoromethane	6.12	101	15106	1.84 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.02 ug/L	98
14) 1,1-Dichloroethene	6.81	96	11692	2.05 ug/L	94
15) Methylene Chloride	6.99	84	10706	2.11 ug/L	93
16) Freon 113	7.06	101	11837	2.00 ug/L	97
17) Carbon disulfide	7.30	76	34510	1.86 ug/L #	46
18) trans-1,2-Dichloroethene	7.86	96	12894	1.95 ug/L	97
19) MTBE	8.00	73	18479	1.98 ug/L	94
20) 1,1-Dichloroethane	8.18	63	21203	2.07 ug/L	97
21) Vinyl Acetate	8.34	43	13334m	1.83 ug/L	
22) n-Hexane	8.69	86	3282	2.02 ug/L	83
23) 2-Butanone (MEK)	8.74	72	770	1.89 ug/L #	21
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.08 ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	11373	1.89 ug/L	96
26) Bromochloromethane	9.12	128	4731	1.98 ug/L	95
27) Chloroform	9.17	83	18252	2.03 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.11 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.07 ug/L	98
31) Tetrahydrofuran	9.60	72	942	2.54 ug/L #	77
32) 1,2-Dichloroethane	10.01	62	9458	2.18 ug/L	93
33) 1,1,1-Trichloroethane	10.13	97	14552	1.93 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	19881	1.97 ug/L #	95
36) 1,1-Dichloropropene	10.37	75	16300	1.91 ug/L	94
37) Carbon Tetrachloride	10.60	117	11980	1.79 ug/L #	93
38) Benzene	10.66	78	39625	1.95 ug/L	97
39) Dibromomethane	11.39	93	4623	1.92 ug/L	96
40) 1,2-Dichloropropane	11.44	63	9870	2.04 ug/L	95

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:47 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.09 ug/L		91
42)	Bromodichloromethane	11.55	83	10648	1.91 ug/L	#	94
43)	2-Chlorovinylethylether	12.09	63	3450	1.88 ug/L	#	91
44)	cis-1,3-Dichloropropene	12.38	75	12256	1.88 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	2.04 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.79 ug/L		98
47)	1,1,2-Trichloroethane	13.17	97	5725	2.03 ug/L		99
49)	Toluene	13.42	92	23415	2.02 ug/L		98
51)	1,3-Dichloropropane	13.49	76	9548	1.83 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.73 ug/L	#	86
53)	Dibromochloromethane	13.85	129	6760	1.79 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.05 ug/L		93
55)	Tetrachloroethene	14.41	164	9734	1.88 ug/L		95
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.87 ug/L		94
57)	Chlorobenzene	15.33	112	23737	1.97 ug/L		91
58)	Ethylbenzene	15.58	91	37962	1.80 ug/L		98
59)	m,p-Xylenes	15.85	106	14006	1.75 ug/L		91
60)	Styrene	16.30	104	19695	1.83 ug/L		98
61)	o-Xylene	16.40	106	12771	1.72 ug/L		92
64)	Bromoform	16.01	173	3623	1.73 ug/L		93
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	1.97 ug/L	#	97
66)	1,2,3-Trichloropropane	16.59	110	1480	1.88 ug/L		93
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	2.25 ug/L	#	88
68)	Isopropylbenzene	16.90	105	35158	1.94 ug/L		99
69)	Bromobenzene	17.24	156	8795	1.99 ug/L		98
70)	n-Propylbenzene	17.51	91	42873	1.86 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.06 ug/L		97
72)	4-Chlorotoluene	17.76	91	23403	1.92 ug/L		98
73)	1,3,5-Trimethylbenzene	17.91	105	28001	1.98 ug/L		97
74)	tert-Butylbenzene	18.31	119	24990	1.97 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.01 ug/L		95
76)	sec-Butylbenzene	18.61	105	41333	2.02 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	15215	1.89 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	15598	1.97 ug/L		96
79)	p-Isopropyltoluene	18.86	119	30026	1.96 ug/L		99
80)	1,2-Dichlorobenzene	19.27	146	12959	1.98 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	1.94 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	2.15 ug/L		91
83)	1,2,4-Trichlorobenzene	21.50	180	7014	1.99 ug/L		93
84)	Napthalene	21.83	128	10482	1.86 ug/L		98
85)	Hexachlorobutadiene	21.89	225	5525	1.87 ug/L		97
86)	1,2,3-Trichlorobenzene	22.07	180	5851	1.84 ug/L		98

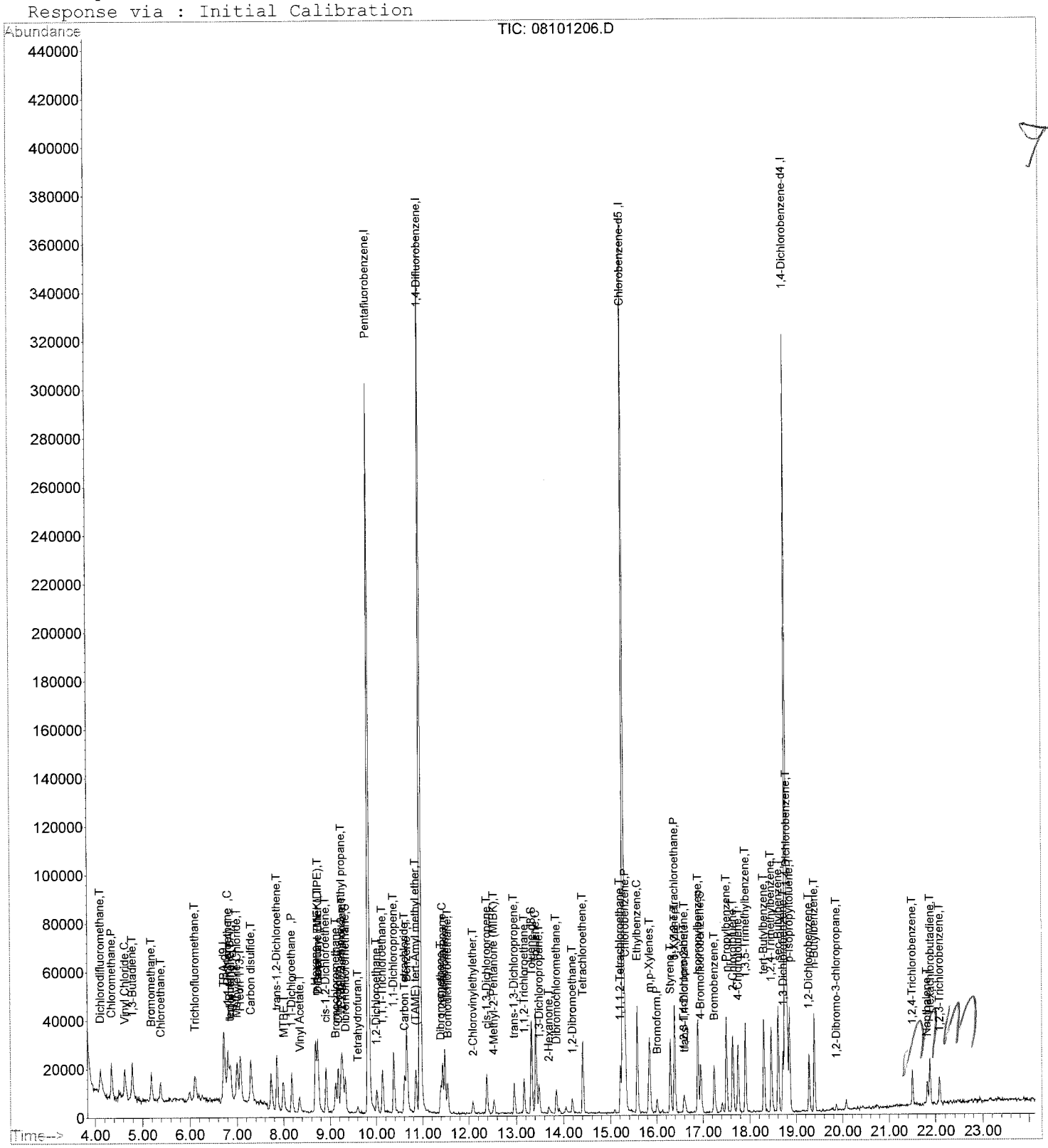
MNM

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:48 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

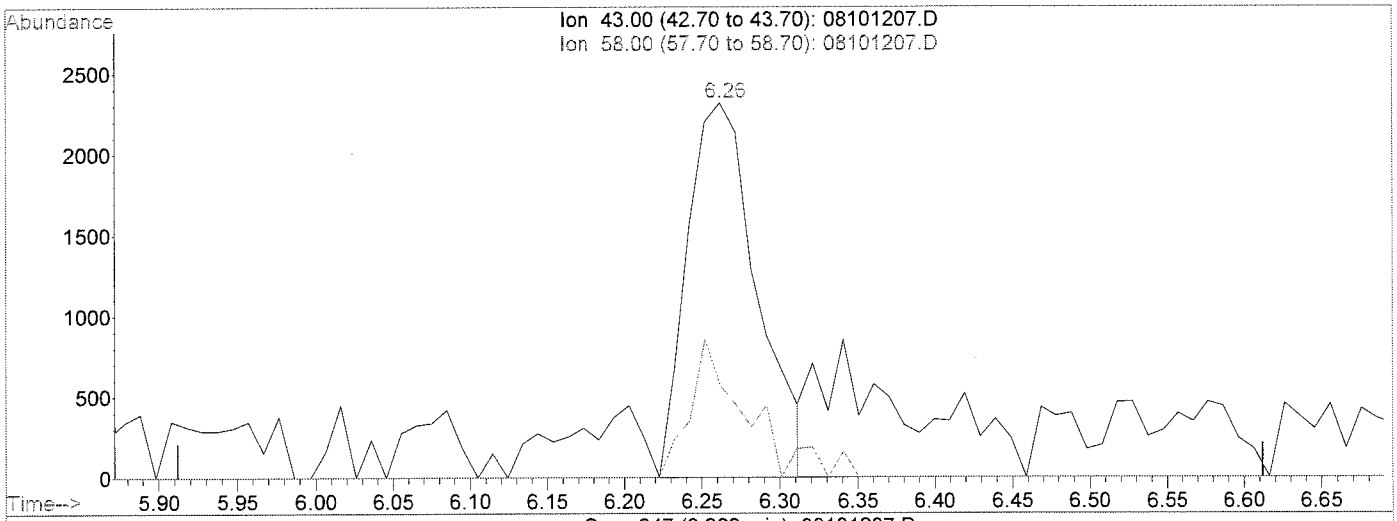
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

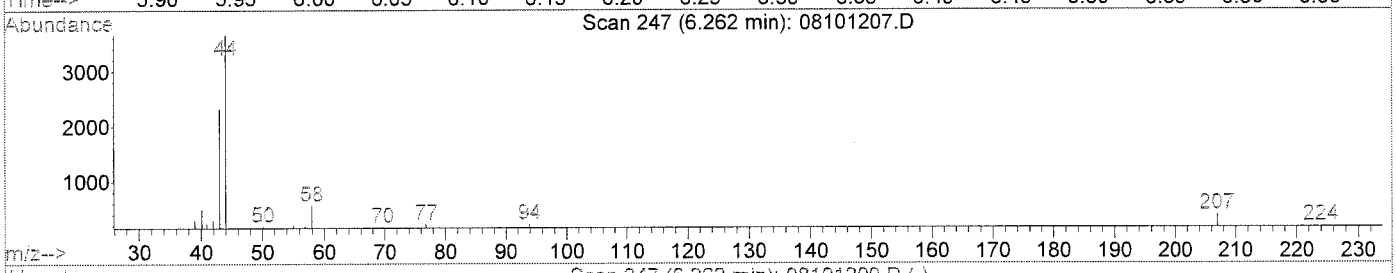


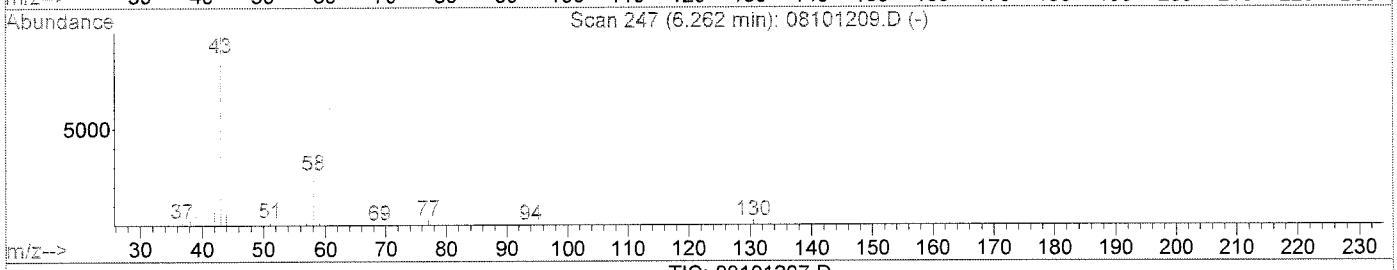
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.60ug/L

response 7175

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

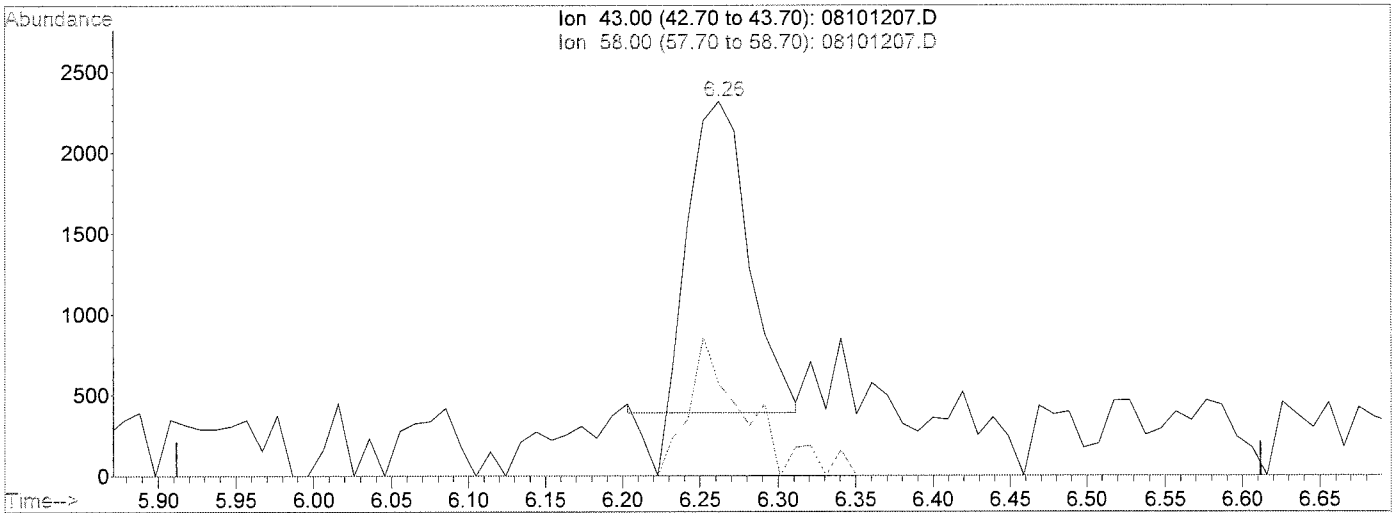
BL

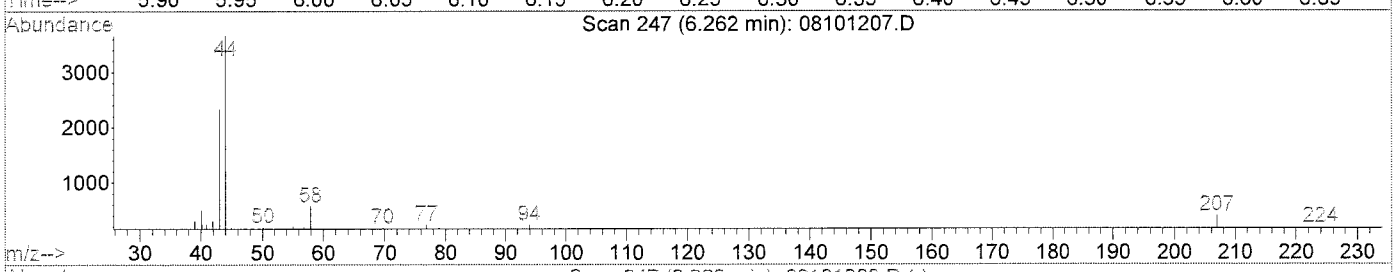
MM 8/13/12

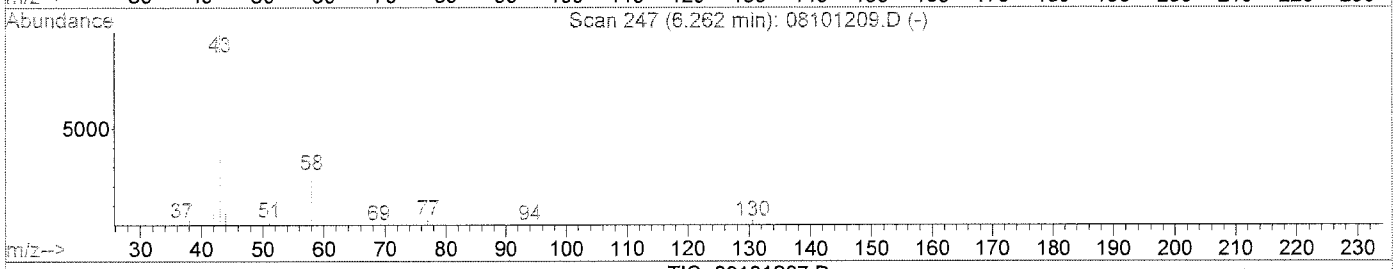
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

8/13/12

(12) Acetone (T)

6.26min 4.41ug/L m

response 4795

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	41.73#
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	4.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.96%	
48) Toluene-d8	13.32	98	72498	5.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.72%	
62) 4-Bromofluorobenzene	16.95	95	19393	4.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.80%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.44 ug/L #	94
5) Dichlorodifluoromethane	4.12	85	50503	5.33 ug/L	98
6) Chloromethane	4.35	50	49357	5.35 ug/L	98
7) Vinyl Chloride	4.63	62	49265	5.84 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.50 ug/L	97
9) Bromomethane	5.19	94	30021	5.82 ug/L	91
10) Chloroethane	5.38	64	23447	5.60 ug/L	97
11) Trichlorofluoromethane	6.11	101	40948	5.49 ug/L	97
12) Acetone	6.26	43	4795m	4.41 ug/L	
13) Iodomethane	6.86	142	44247	5.07 ug/L	98
14) 1,1-Dichloroethene	6.80	96	26139	5.03 ug/L	100
15) Methylene Chloride	7.00	84	23231	5.02 ug/L	96
16) Freon 113	7.08	101	29531	5.49 ug/L	97
17) Carbon disulfide	7.30	76	90258	5.34 ug/L	98
18) trans-1,2-Dichloroethene	7.87	96	30944	5.14 ug/L	98
19) MTBE	8.00	73	42861	5.03 ug/L	99
20) 1,1-Dichloroethane	8.18	63	50278	5.38 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.83 ug/L	99
22) n-Hexane	8.68	86	8584	5.81 ug/L	73
23) 2-Butanone (MEK)	8.73	72	1806	4.85 ug/L #	60
24) Diisopropyl Ether (DIPE)	8.74	45	78319	4.96 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	27851	5.08 ug/L	99
26) Bromochloromethane	9.11	128	10529	4.84 ug/L	90
27) Chloroform	9.17	83	43865	5.36 ug/L	97
28) 2,2-Dichloropropane	9.27	77	32662	5.27 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	4.88 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	4.38 ug/L	95
32) 1,2-Dichloroethane	10.01	62	19485	4.94 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.21 ug/L	97
34) (TAME) tert-Amyl methyl et	10.86	73	44807	4.88 ug/L	98
36) 1,1-Dichloropropene	10.37	75	40445	5.34 ug/L	96
37) Carbon Tetrachloride	10.61	117	30853	5.20 ug/L	95
38) Benzene	10.66	78	91136	5.04 ug/L	99
39) Dibromomethane	11.39	93	10657	4.99 ug/L	94
40) 1,2-Dichloropropane	11.44	63	21430	4.98 ug/L	97

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:56 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	27389	5.41 ug/L	94
42)	Bromodichloromethane	11.55	83	25974	5.24 ug/L	95
43)	2-Chlorovinylethylether	12.09	63	6853	4.21 ug/L	96
44)	cis-1,3-Dichloropropene	12.39	75	28675	4.96 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.61 ug/L	98
46)	trans-1,3-Dichloropropene	12.96	75	21114	4.80 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	12837	5.12 ug/L	94
49)	Toluene	13.42	92	54238	5.28 ug/L	97
51)	1,3-Dichloropropane	13.49	76	23699	5.26 ug/L	96
52)	2-Hexanone	13.69	43	8850	4.70 ug/L #	94
53)	Dibromochloromethane	13.86	129	16099	4.93 ug/L	100
54)	1,2-Dibromoethane	14.19	107	13554	4.95 ug/L	95
55)	Tetrachloroethene	14.41	164	23934	5.36 ug/L	95
56)	1,1,1,2-Tetrachloroethane	15.21	131	18257	5.10 ug/L	95
57)	Chlorobenzene	15.32	112	54536	5.24 ug/L	98
58)	Ethylbenzene	15.59	91	93388	5.14 ug/L	99
59)	m,p-Xylenes	15.85	106	35706	5.15 ug/L	98
60)	Styrene	16.30	104	44417	4.78 ug/L	98
61)	o-Xylene	16.39	106	32546	5.08 ug/L	98
64)	Bromoform	16.01	173	9250	4.92 ug/L #	82
65)	1,1,2,2-Tetrachloroethane	16.39	83	14360	4.89 ug/L	97
66)	1,2,3-Trichloropropane	16.59	110	3714	5.25 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.62	53	3143	5.21 ug/L #	94
68)	Isopropylbenzene	16.90	105	84596	5.19 ug/L	98
69)	Bromobenzene	17.25	156	19667	4.95 ug/L	93
70)	n-Propylbenzene	17.50	91	106364	5.14 ug/L	99
71)	2-Chlorotoluene	17.64	91	57156	5.10 ug/L	99
72)	4-Chlorotoluene	17.75	91	57414	5.24 ug/L	97
73)	1,3,5-Trimethylbenzene	17.91	105	65369	5.14 ug/L	98
74)	tert-Butylbenzene	18.30	119	58429	5.14 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	63046	5.24 ug/L	99
76)	sec-Butylbenzene	18.61	105	99506	5.41 ug/L	100
77)	1,3-Dichlorobenzene	18.71	146	37917	5.24 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	35468	5.00 ug/L	98
79)	p-Isopropyltoluene	18.86	119	72640	5.27 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	30287	5.14 ug/L	100
81)	n-Butylbenzene	19.39	91	70667	5.35 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.87	75	1150	3.92 ug/L #	53
83)	1,2,4-Trichlorobenzene	21.51	180	17519	5.55 ug/L	96
84)	Napthalene	21.82	128	26687	5.28 ug/L	96
85)	Hexachlorobutadiene	21.88	225	14706	6.26 ug/L	92
86)	1,2,3-Trichlorobenzene	22.08	180	14724	5.45 ug/L	96

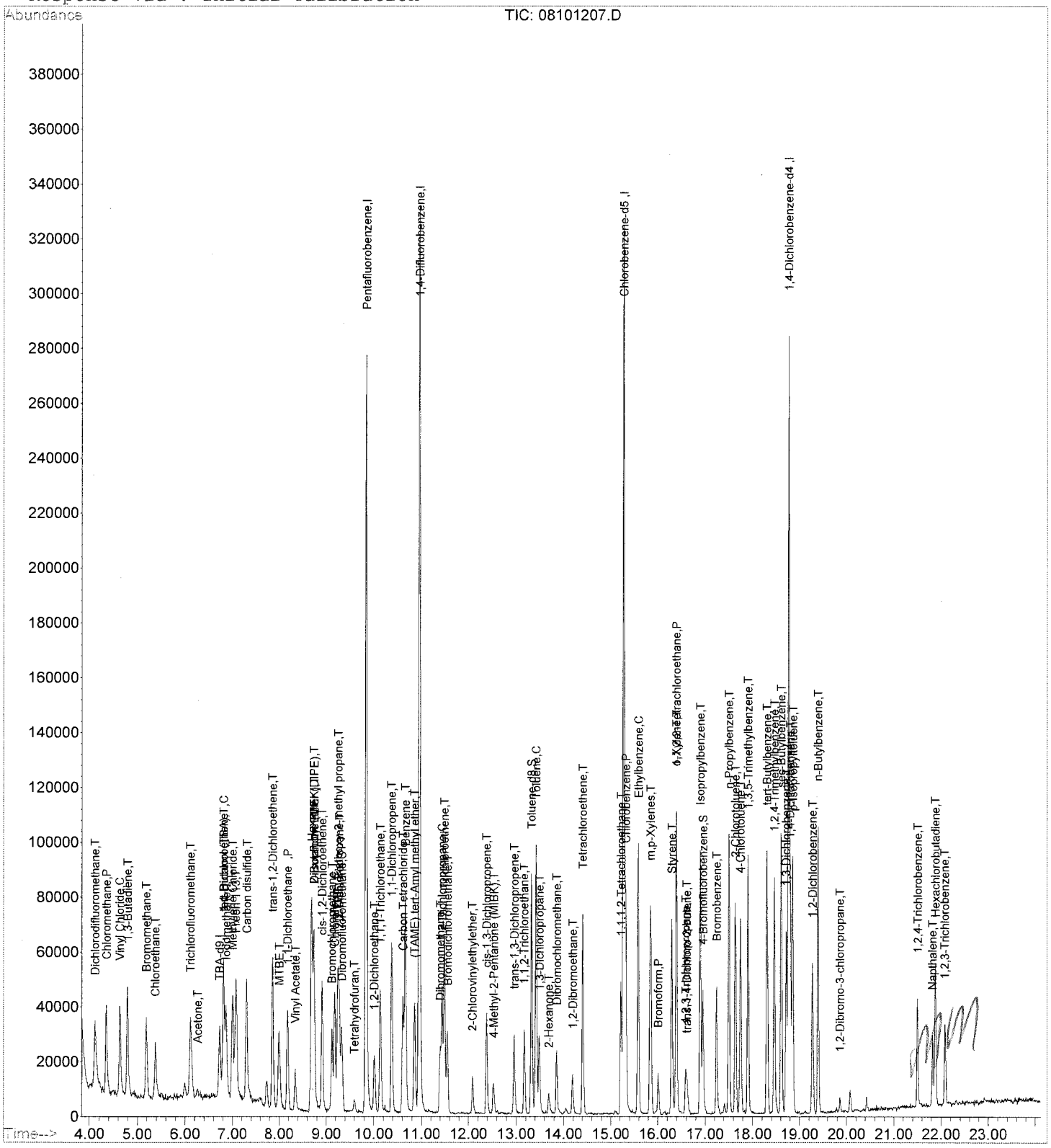
MNM

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:57 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

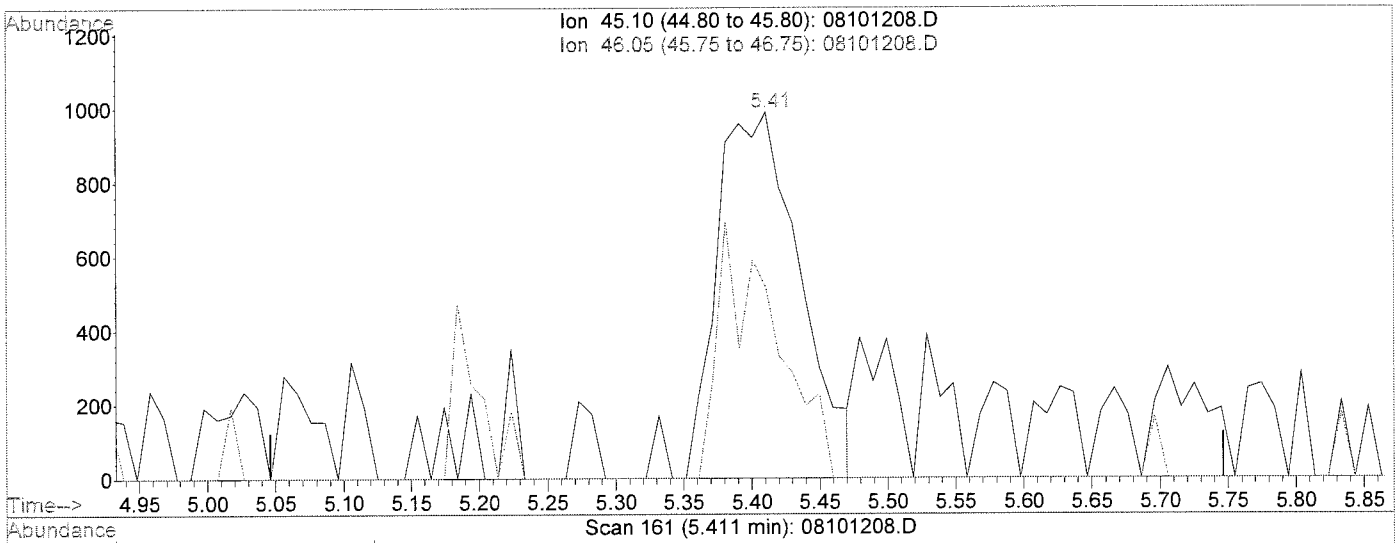


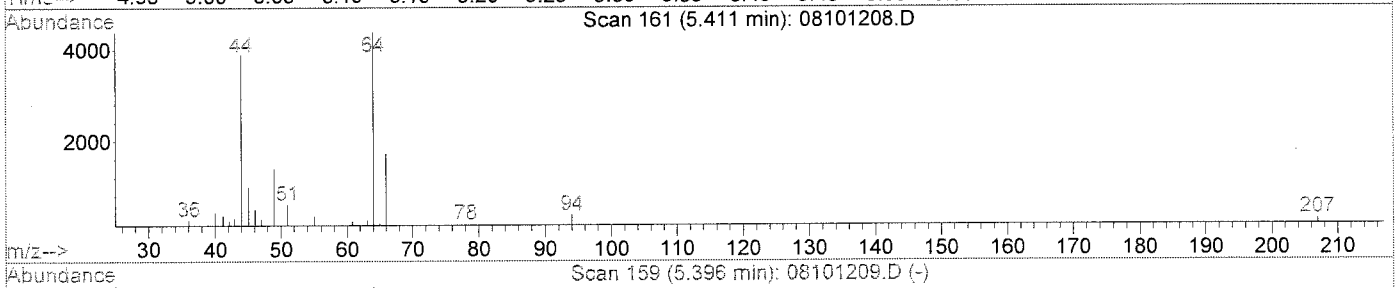
08101207.D 081012.M Mon Aug 13 05:21:57 2012

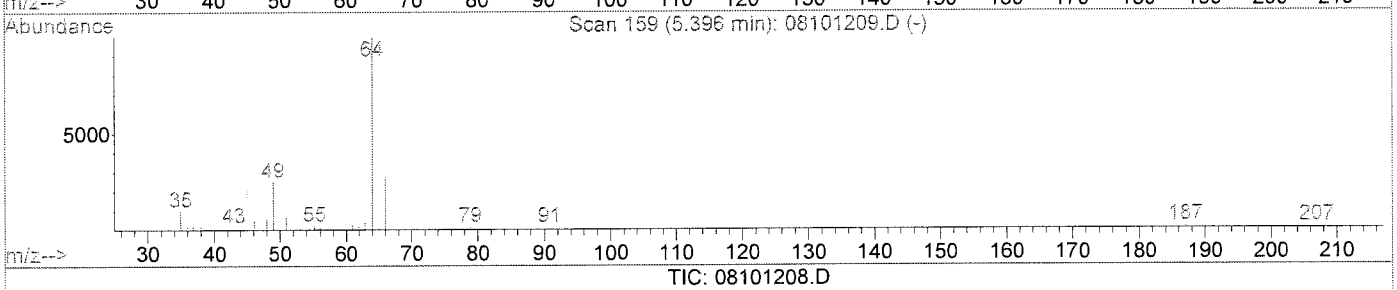
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 142.10ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

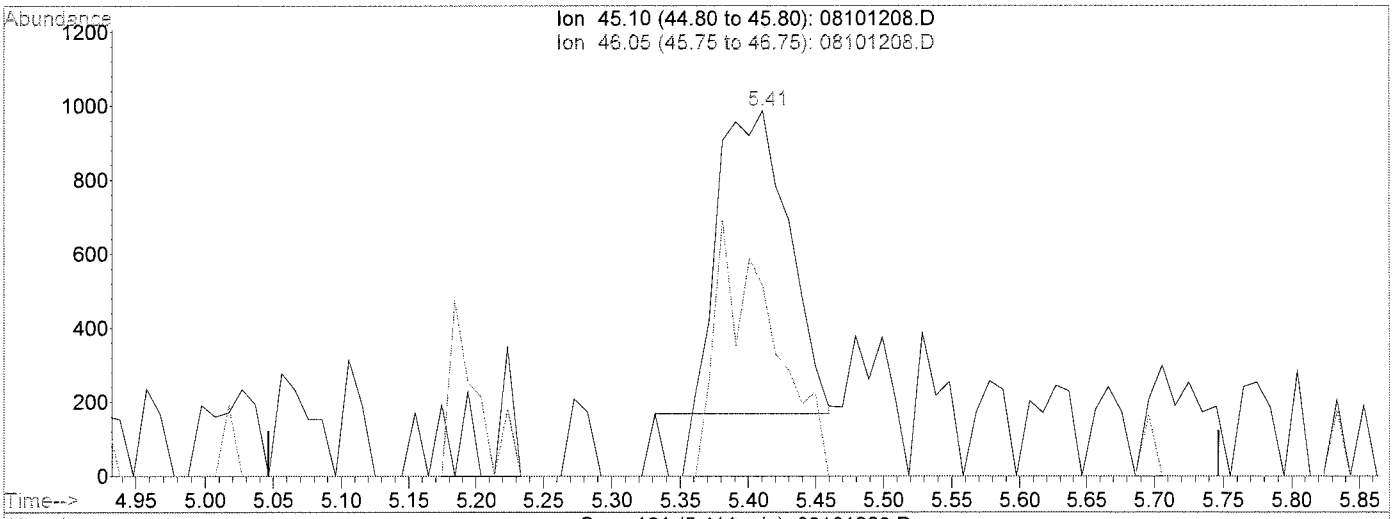
B

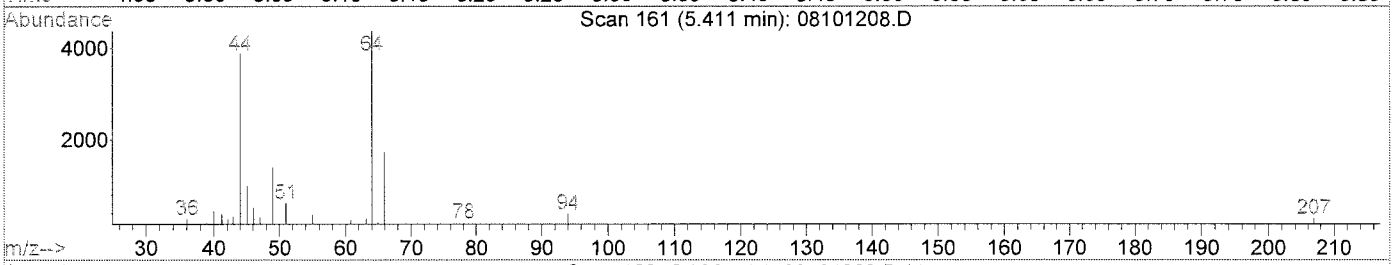
BL MM 8/13/12

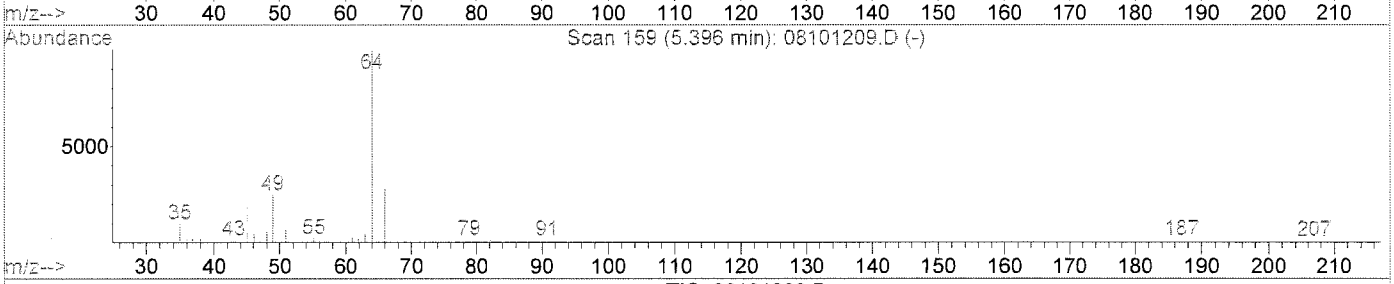
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(2) Ethanol (T)

5.41min 94.06ug/L m

response 2755

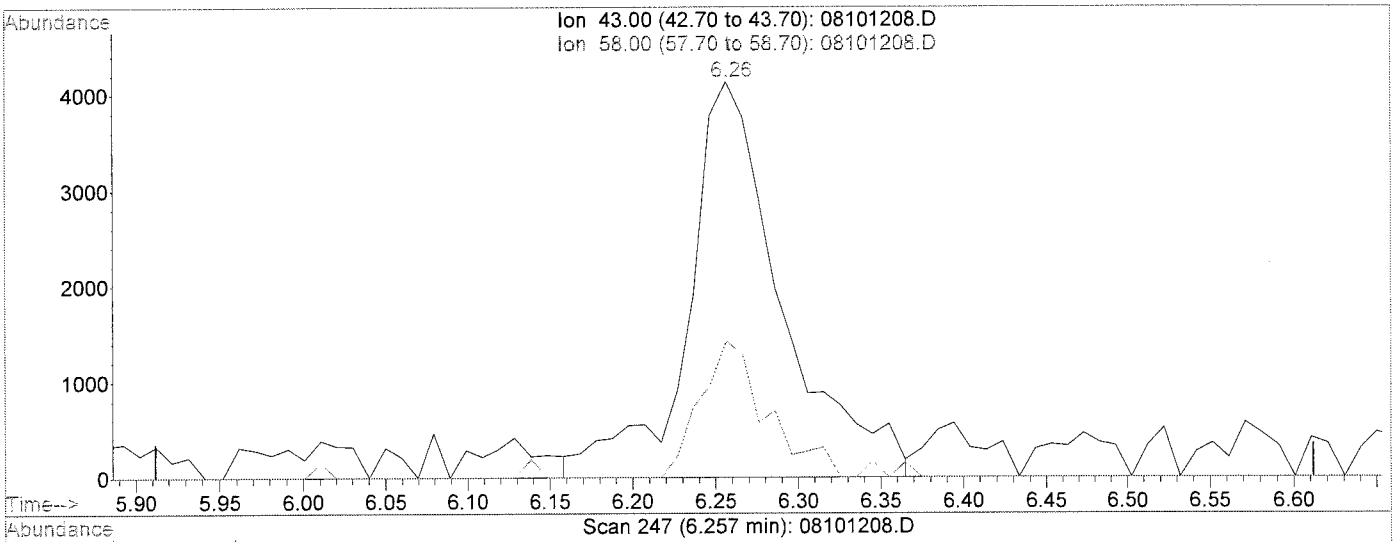
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	73.79
0.00	0.00	0.00
0.00	0.00	0.00

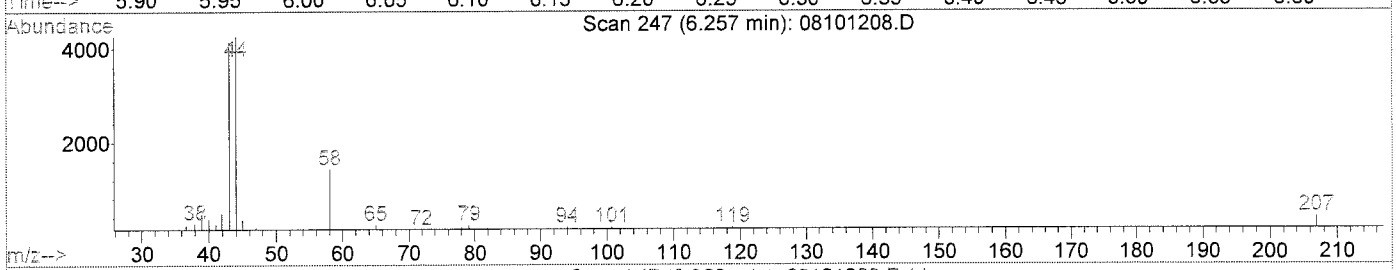
MM 8/13/12

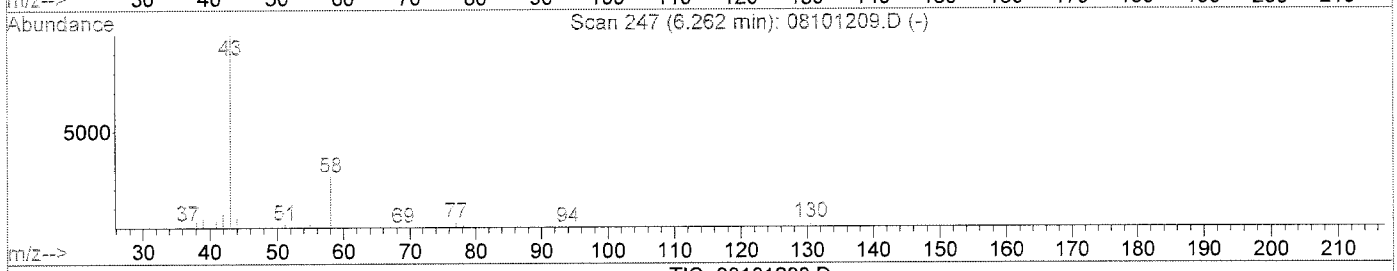
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(12) Acetone (T)

6.26min 14.56ug/L

response 16281

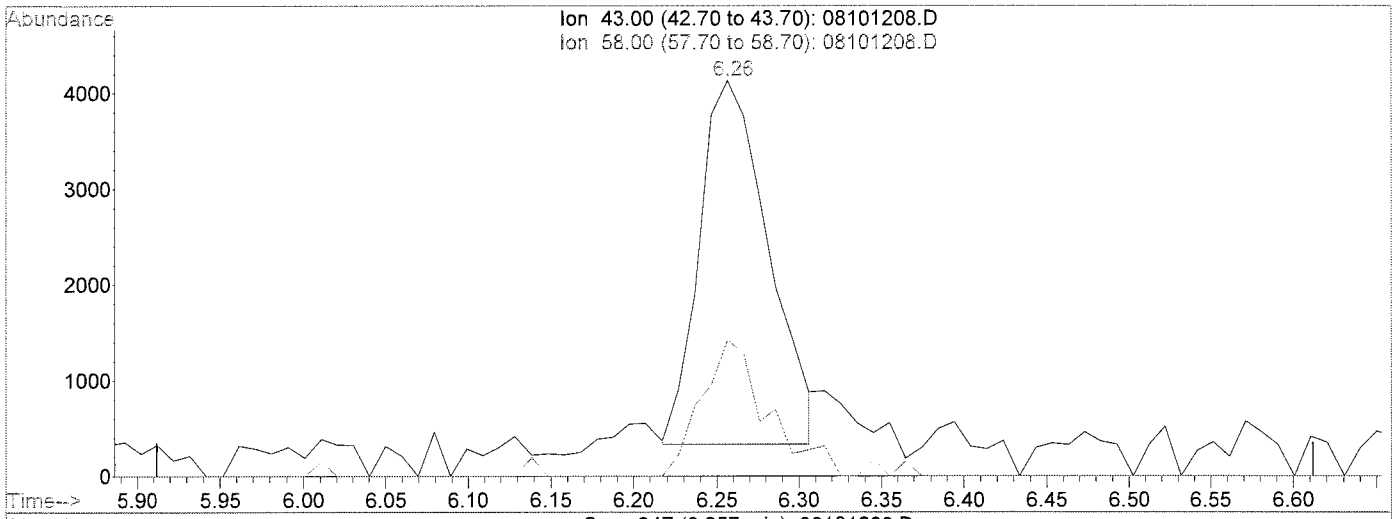
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.34#
0.00	0.00	0.00
0.00	0.00	0.00

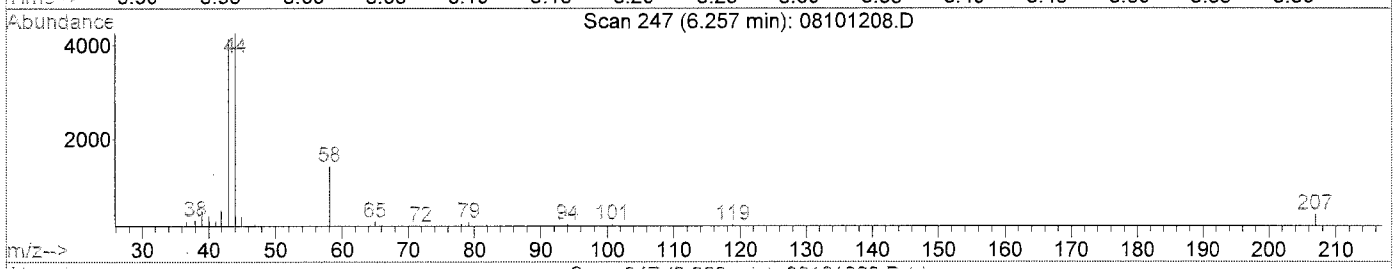
BL MM 8/13/12

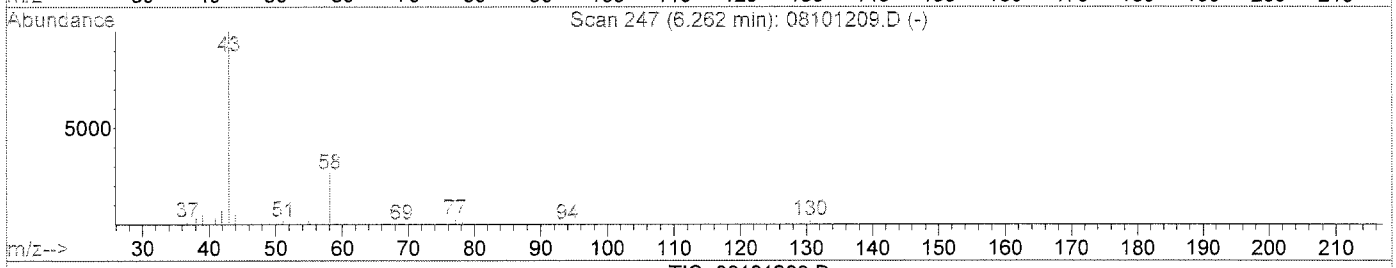
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 9.85ug/L m

response 11022

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.96
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	10.37 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.48%	
48) Toluene-d8	13.33	98	151060	10.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	42.16%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	44.48%	
Target Compounds					Qvalue
2) Ethanol	5.41	45	2755m	94.06 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	47.38 ug/L #	95
5) Dichlorodifluoromethane	4.11	85	99359	10.19 ug/L	99
6) Chloromethane	4.35	50	99085	10.44 ug/L	100
7) Vinyl Chloride	4.63	62	94725	10.91 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	10.80 ug/L	93
9) Bromomethane	5.18	94	57814	10.90 ug/L	96
10) Chloroethane	5.38	64	44676	10.38 ug/L	97
11) Trichlorofluoromethane	6.11	101	81825	10.66 ug/L	96
12) Acetone	6.26	43	11022m	9.85 ug/L	
13) Iodomethane	6.87	142	92968	10.36 ug/L	99
14) 1,1-Dichloroethene	6.81	96	53536	10.02 ug/L	97
15) Methylene Chloride	6.99	84	48433	10.18 ug/L	99
16) Freon 113	7.07	101	57249	10.35 ug/L	95
17) Carbon disulfide	7.30	76	183724	10.58 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	63718	10.29 ug/L	99
19) MTBE	8.00	73	90114	10.29 ug/L	96
20) 1,1-Dichloroethane	8.17	63	99374	10.33 ug/L	99
21) Vinyl Acetate	8.34	43	68389	10.03 ug/L	98
22) n-Hexane	8.69	86	15274	10.05 ug/L	99
23) 2-Butanone (MEK)	8.74	72	3909	10.21 ug/L #	34
24) Diisopropyl Ether (DIPE)	8.74	45	169576	10.44 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	59154	10.49 ug/L	96
26) Bromochloromethane	9.12	128	23711	10.59 ug/L	96
27) Chloroform	9.18	83	88095	10.47 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.39 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	10.37 ug/L	99
31) Tetrahydrofuran	9.59	72	3578	10.28 ug/L	96
32) 1,2-Dichloroethane	10.01	62	41085	10.12 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	75517	10.72 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	91702	9.70 ug/L	98
36) 1,1-Dichloropropene	10.38	75	86510	11.14 ug/L	98
37) Carbon Tetrachloride	10.61	117	64587	10.61 ug/L	96
38) Benzene	10.66	78	192601	10.40 ug/L	98
39) Dibromomethane	11.39	93	22947	10.49 ug/L	95
40) 1,2-Dichloropropane	11.43	63	45818	10.38 ug/L	97

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:23 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	10.32 ug/L		97
42)	Bromodichloromethane	11.55	83	54093	10.65 ug/L		99
43)	2-Chlorovinylethylether	12.09	63	17562	10.53 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	62172	10.50 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	10.20 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	46129	10.24 ug/L		97
47)	1,1,2-Trichloroethane	13.17	97	27529	10.72 ug/L		99
49)	Toluene	13.42	92	109934	10.43 ug/L		99
51)	1,3-Dichloropropane	13.49	76	47813	10.47 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.79 ug/L		99
53)	Dibromochloromethane	13.85	129	35116	10.61 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	10.66 ug/L		96
55)	Tetrachloroethene	14.41	164	47547	10.50 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	10.56 ug/L		97
57)	Chlorobenzene	15.32	112	113987	10.80 ug/L		98
58)	Ethylbenzene	15.58	91	196709	10.67 ug/L		100
59)	m,p-Xylenes	15.85	106	77315	10.99 ug/L		98
60)	Styrene	16.30	104	101282	10.75 ug/L		98
61)	o-Xylene	16.40	106	72024	11.08 ug/L		96
64)	Bromoform	16.00	173	18119	9.69 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	11.32 ug/L	#	96
66)	1,2,3-Trichloropropane	16.59	110	7207	10.24 ug/L		96
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	9.83 ug/L		94
68)	Isopropylbenzene	16.90	105	174169	10.73 ug/L		99
69)	Bromobenzene	17.24	156	41493	10.49 ug/L		96
70)	n-Propylbenzene	17.51	91	220385	10.70 ug/L		100
71)	2-Chlorotoluene	17.65	91	118995	10.68 ug/L		97
72)	4-Chlorotoluene	17.75	91	114947	10.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	140555	11.10 ug/L		99
74)	tert-Butylbenzene	18.31	119	125080	11.06 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	130209	10.87 ug/L		98
76)	sec-Butylbenzene	18.61	105	203460	11.12 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	10.93 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	10.66 ug/L		99
79)	p-Isopropyltoluene	18.86	119	152942	11.16 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	63302	10.80 ug/L		98
81)	n-Butylbenzene	19.39	91	148822	11.32 ug/L		97
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	10.63 ug/L	#	74
83)	1,2,4-Trichlorobenzene	21.50	180	37943	12.08 ug/L		98
84)	Napthalene	21.83	128	59549	11.85 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	11.81 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	11.71 ug/L		96

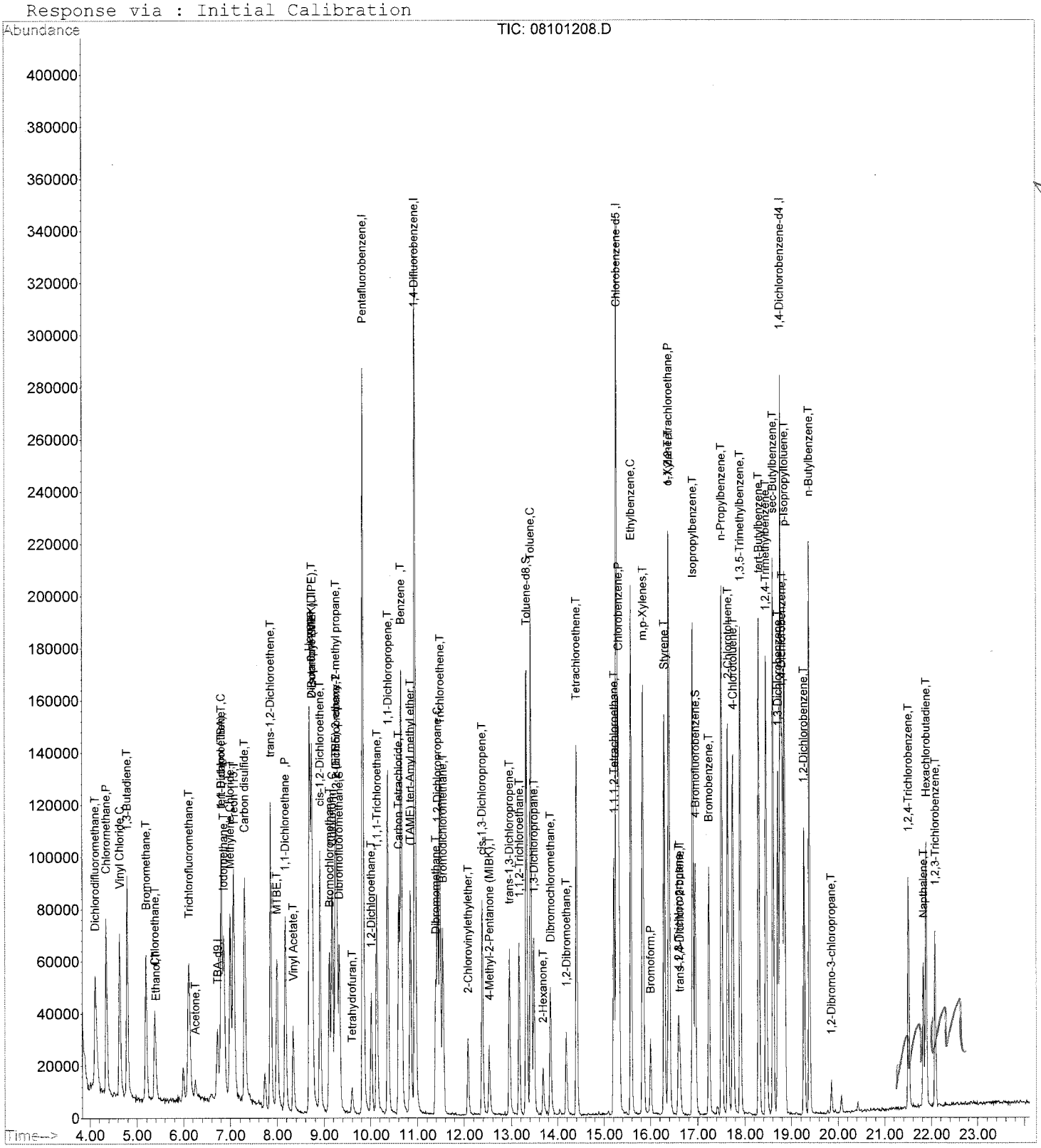
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

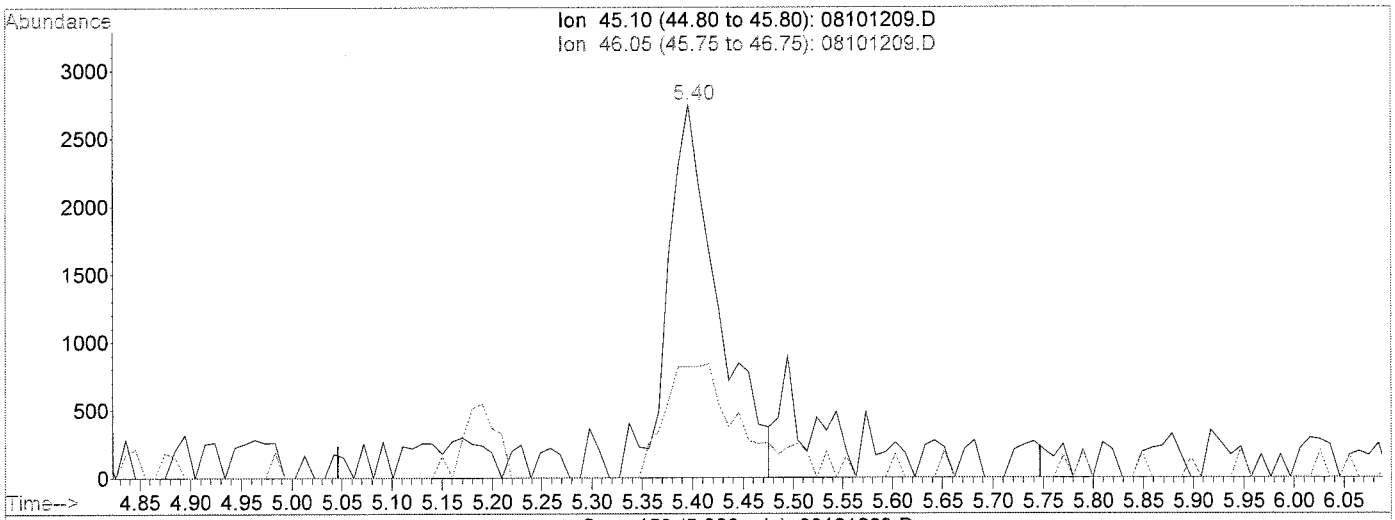
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

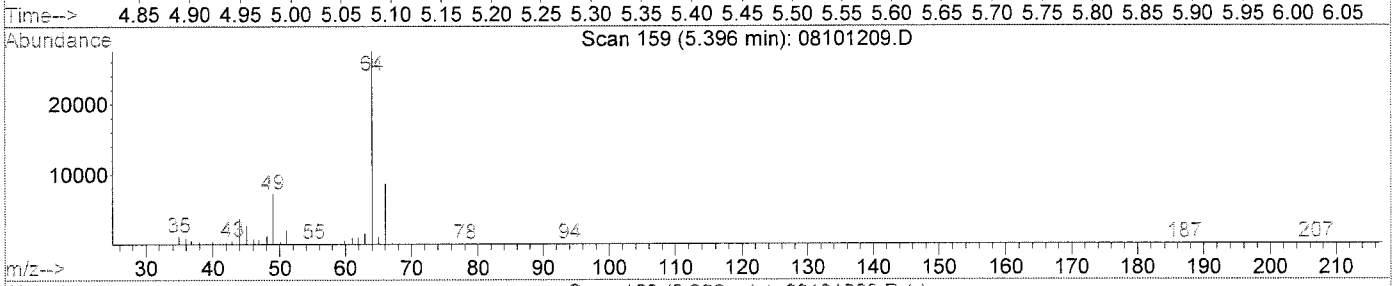


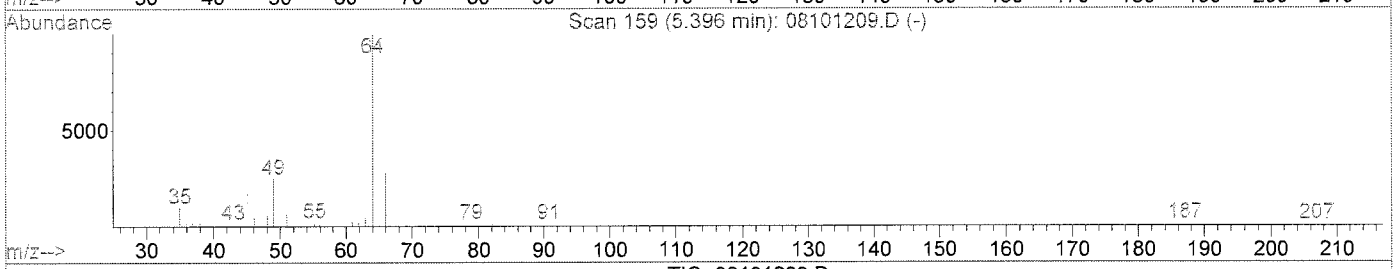
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 337.19ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

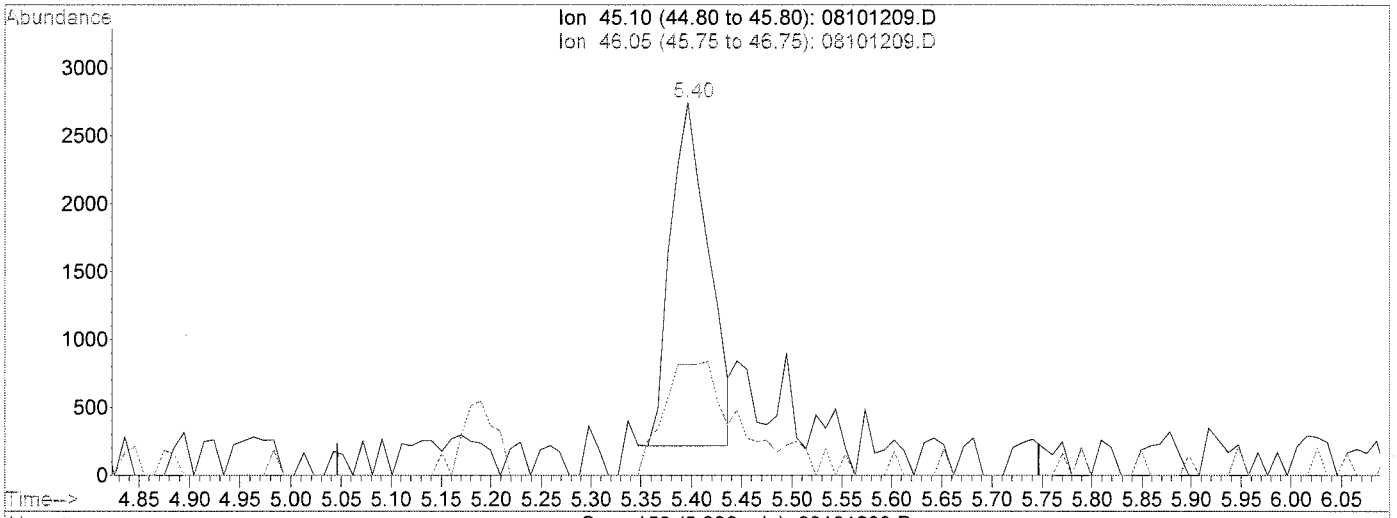
BL

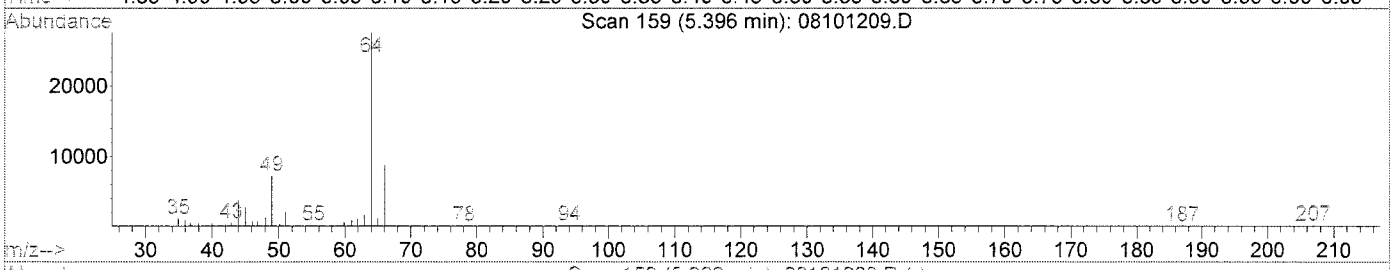
MNM 8/13/12

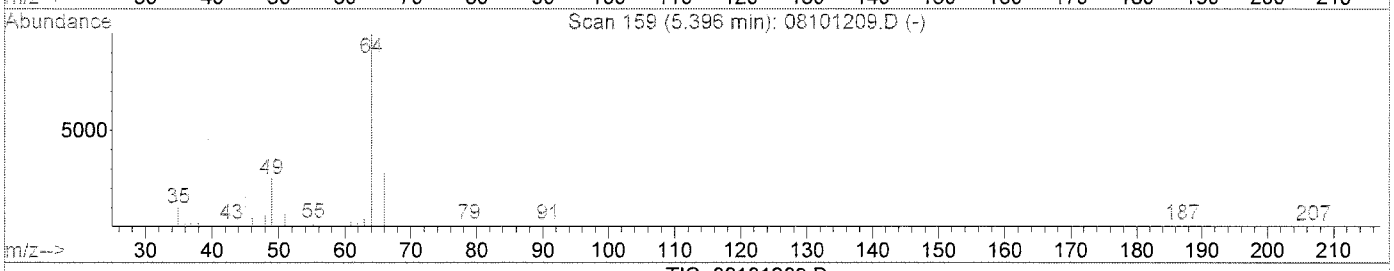
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 233.89ug/L m

response 6632

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	60.55
0.00	0.00	0.00
0.00	0.00	0.00

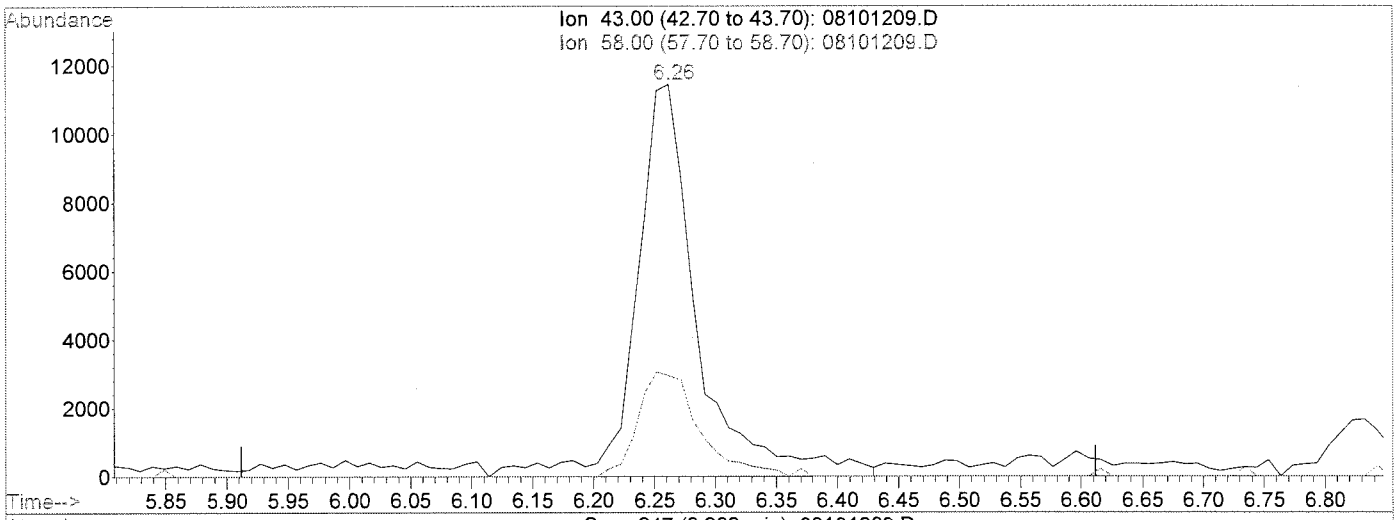
8/13/12

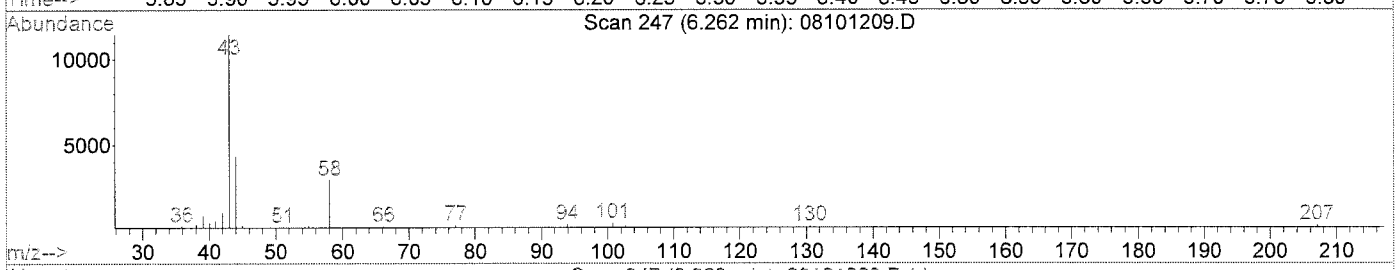
MNM 8/13/12

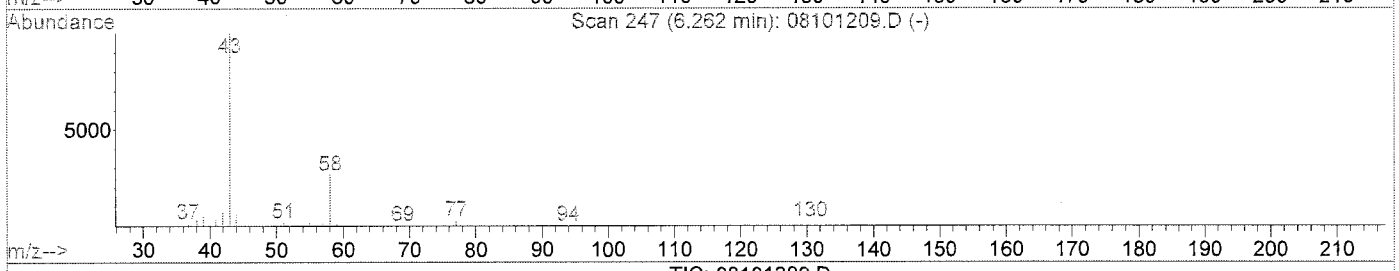
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 33.65ug/L

response 39847

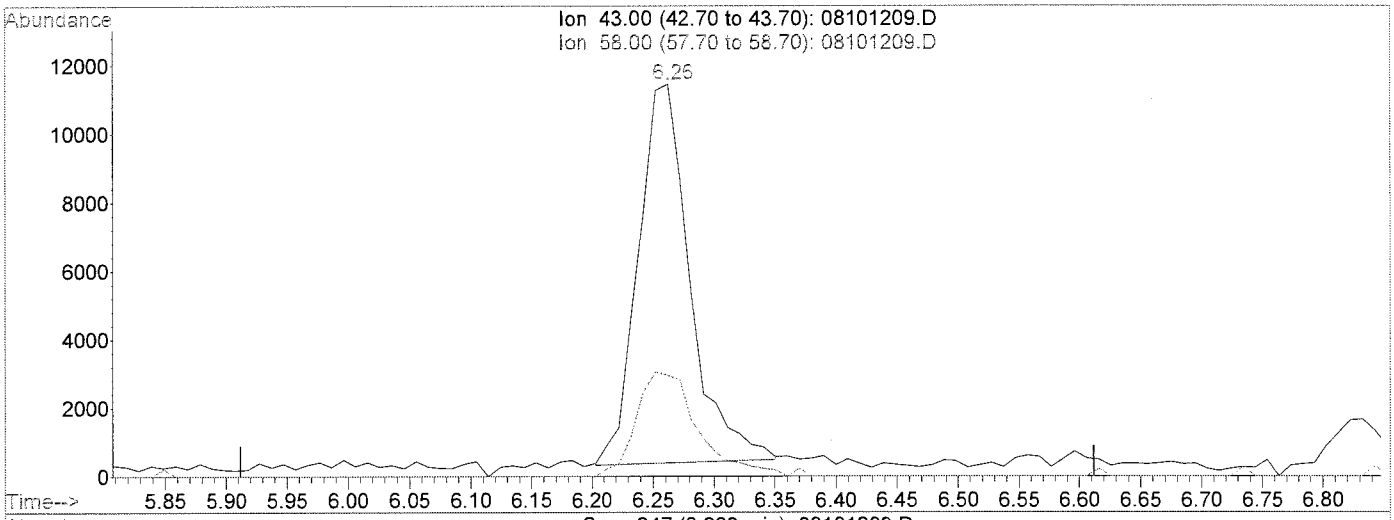
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

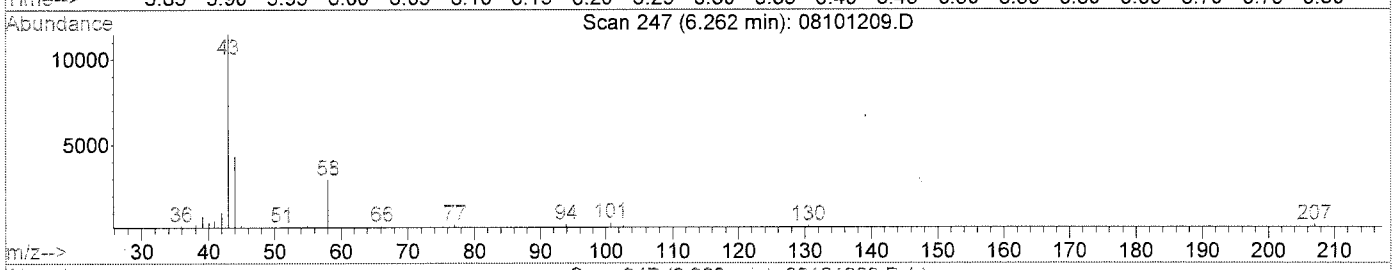
BL MM 8/13/12

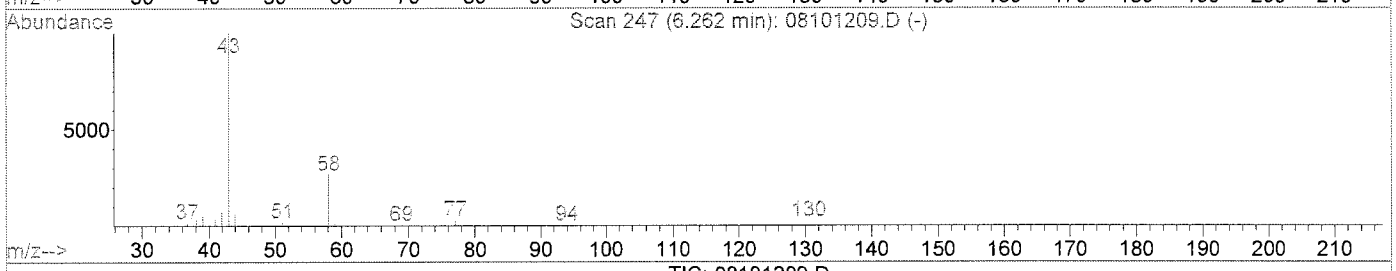
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 27.26ug/L m

response 32282

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.89
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	24.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.32%	
48) Toluene-d8	13.32	98	387904	25.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.52%	
62) 4-Bromofluorobenzene	16.95	95	104965	24.87 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.48%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6632m	233.89 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	127.92 ug/L	100
5) Dichlorodifluoromethane	4.11	85	259999	25.19 ug/L	100
6) Chloromethane	4.35	50	249108	24.80 ug/L	100
7) Vinyl Chloride	4.63	62	234281	25.48 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	25.57 ug/L	100
9) Bromomethane	5.19	94	136870	24.38 ug/L	100
10) Chloroethane	5.38	64	115028	25.23 ug/L	100
11) Trichlorofluoromethane	6.11	101	203736	25.07 ug/L	100
12) Acetone	6.26	43	32282m	27.26 ug/L	
13) Iodomethane	6.86	142	233911	24.63 ug/L	100
14) 1,1-Dichloroethene	6.81	96	132114	23.36 ug/L	100
15) Methylene Chloride	7.00	84	120484	23.93 ug/L	100
16) Freon 113	7.07	101	146166	24.95 ug/L	100
17) Carbon disulfide	7.29	76	465019	25.28 ug/L	100
18) trans-1,2-Dichloroethene	7.87	96	156993	23.93 ug/L	100
19) MTBE	8.00	73	227954	24.58 ug/L	100
20) 1,1-Dichloroethane	8.18	63	249879	24.53 ug/L	100
21) Vinyl Acetate	8.34	43	179194	24.82 ug/L	100
22) n-Hexane	8.69	86	38470	23.89 ug/L	100
23) 2-Butanone (MEK)	8.73	72	10850	26.78 ug/L #	100
24) Diisopropyl Ether (DIPE)	8.74	45	414456	24.10 ug/L	100
25) cis-1,2-Dichloroethene	8.91	96	143999	24.12 ug/L	100
26) Bromochloromethane	9.11	128	58383	24.63 ug/L	100
27) Chloroform	9.17	83	223471	25.08 ug/L	100
28) 2,2-Dichloropropane	9.27	77	163680	24.27 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	24.00 ug/L	100
31) Tetrahydrofuran	9.60	72	8067	21.89 ug/L	100
32) 1,2-Dichloroethane	10.01	62	105341	24.51 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	190354	25.51 ug/L	100
34) (TAME) tert-Amyl methyl et	10.86	73	241539	24.14 ug/L	100
36) 1,1-Dichloropropene	10.37	75	205389	24.57 ug/L	100
37) Carbon Tetrachloride	10.61	117	164083	25.03 ug/L	100
38) Benzene	10.66	78	497157	24.92 ug/L	100
39) Dibromomethane	11.39	93	58226	24.72 ug/L	100
40) 1,2-Dichloropropane	11.44	63	118189	24.87 ug/L	100

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	140936	25.20 ug/L	100
42) Bromodichloromethane	11.55	83	140799	25.74 ug/L	100
43) 2-Chlorovinylethylether	12.08	63	44348	24.69 ug/L	100
44) cis-1,3-Dichloropropene	12.39	75	164809	25.84 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	66778	23.32 ug/L	100
46) trans-1,3-Dichloropropene	12.95	75	123650	25.49 ug/L	100
47) 1,1,2-Trichloroethane	13.17	97	72275	26.13 ug/L	100
49) Toluene	13.42	92	282282	24.88 ug/L	100
51) 1,3-Dichloropropane	13.49	76	124333	25.64 ug/L	100
52) 2-Hexanone	13.69	43	53049	26.17 ug/L	100
53) Dibromochloromethane	13.86	129	92023	26.17 ug/L	100
54) 1,2-Dibromoethane	14.18	107	76183	25.85 ug/L	100
55) Tetrachloroethene	14.41	164	125279	26.04 ug/L	100
56) 1,1,1,2-Tetrachloroethane	15.21	131	102745	26.65 ug/L	100
57) Chlorobenzene	15.32	112	287853	25.67 ug/L	100
58) Ethylbenzene	15.59	91	512045	26.15 ug/L	100
59) m,p-Xylenes	15.84	106	195904	26.22 ug/L	100
60) Styrene	16.29	104	271388	27.12 ug/L	100
61) o-Xylene	16.39	106	178278	25.82 ug/L	100
64) Bromoform	16.01	173	52543	24.31 ug/L	100
65) 1,1,2,2-Tetrachloroethane	16.39	83	80822	23.97 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	19363	23.82 ug/L	100
67) trans-1,4-Dichloro-2-buten	16.62	53	18848	22.87 ug/L	100
68) Isopropylbenzene	16.89	105	450007	24.00 ug/L	100
69) Bromobenzene	17.25	156	113170	24.77 ug/L	100
70) n-Propylbenzene	17.50	91	579703	24.35 ug/L	100
71) 2-Chlorotoluene	17.64	91	304359	23.65 ug/L	100
72) 4-Chlorotoluene	17.75	91	297241	23.61 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	362766	24.80 ug/L	100
74) tert-Butylbenzene	18.30	119	324105	24.81 ug/L	100
75) 1,2,4-Trimethylbenzene	18.46	105	337490	24.39 ug/L	100
76) sec-Butylbenzene	18.61	105	528569	25.01 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	201590	24.24 ug/L	100
78) 1,4-Dichlorobenzene	18.81	146	196096	24.05 ug/L	100
79) p-Isopropyltoluene	18.85	119	400272	25.27 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	166930	24.66 ug/L	100
81) n-Butylbenzene	19.39	91	388212	25.56 ug/L	100
82) 1,2-Dibromo-3-chloropropan	19.86	75	9202	27.08 ug/L	100
83) 1,2,4-Trichlorobenzene	21.51	180	95814	26.39 ug/L	100
84) Napthalene	21.82	128	152397	26.24 ug/L	100
85) Hexachlorobutadiene	21.88	225	71752	28.94 ug/L	100
86) 1,2,3-Trichlorobenzene	22.09	180	77645	26.44 ug/L	100

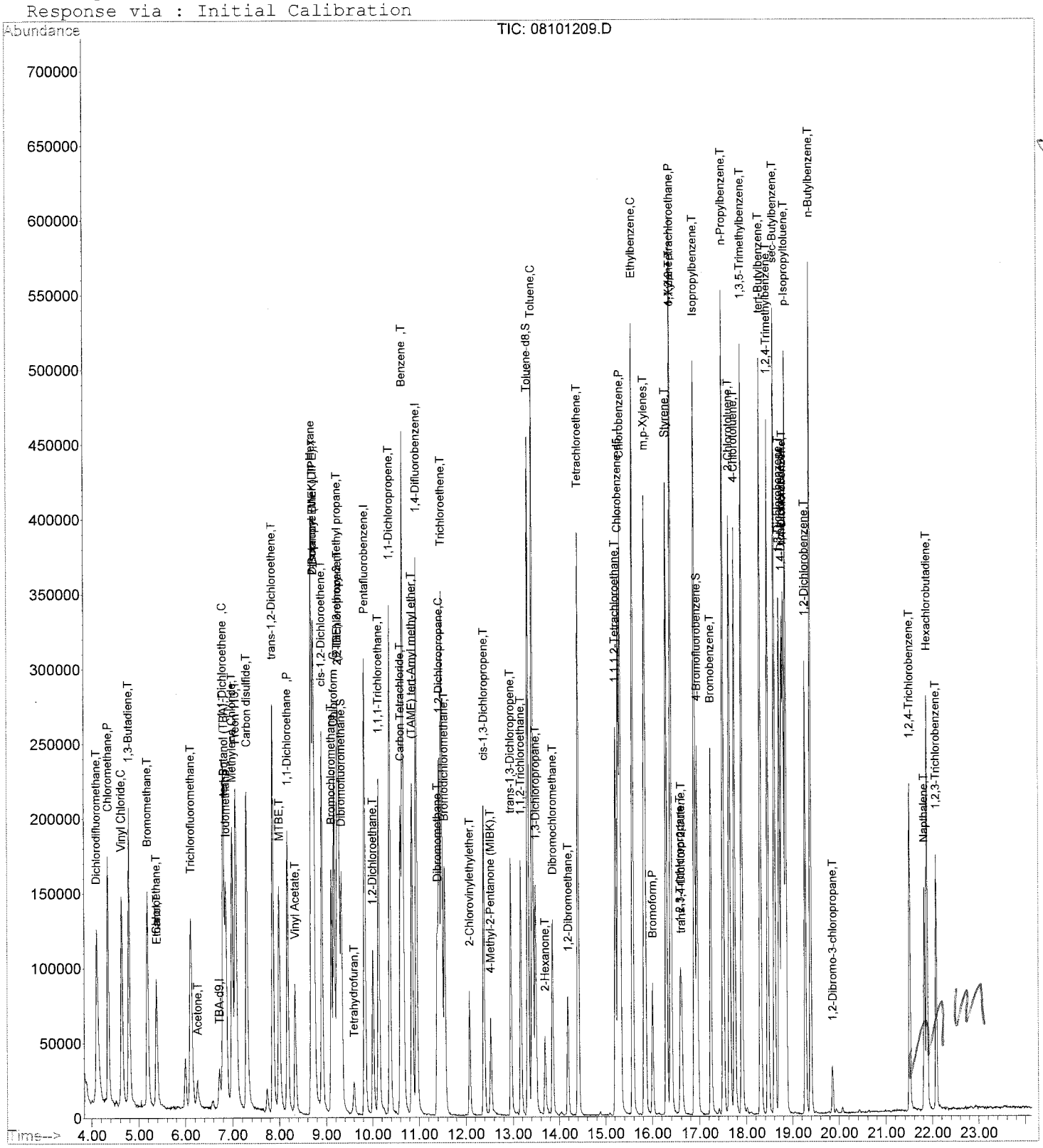
MNM

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

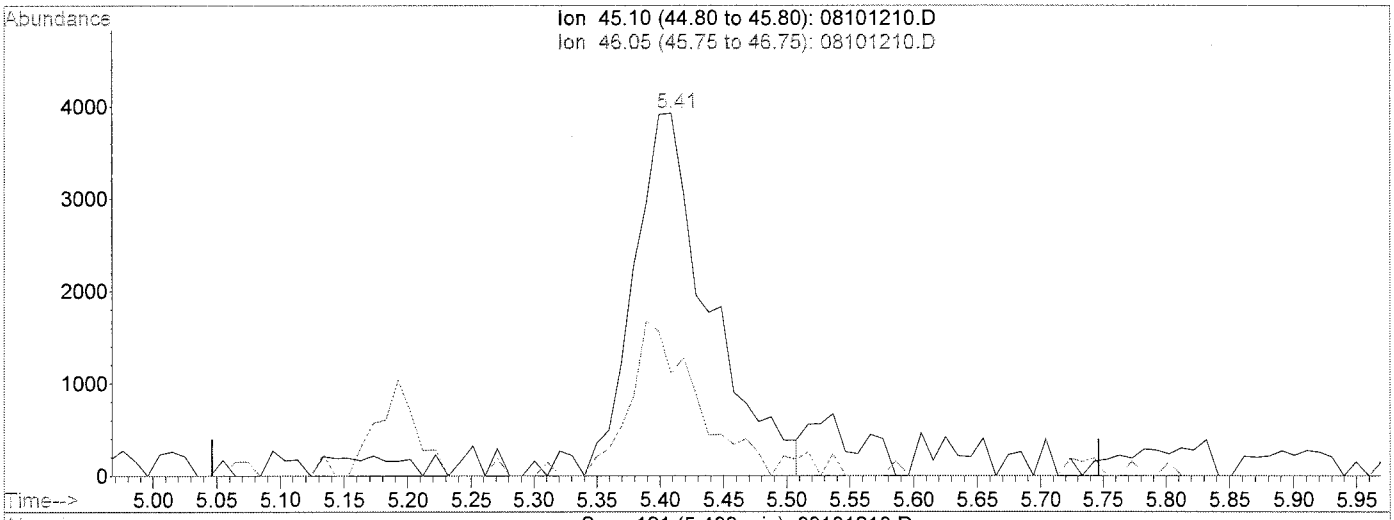
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

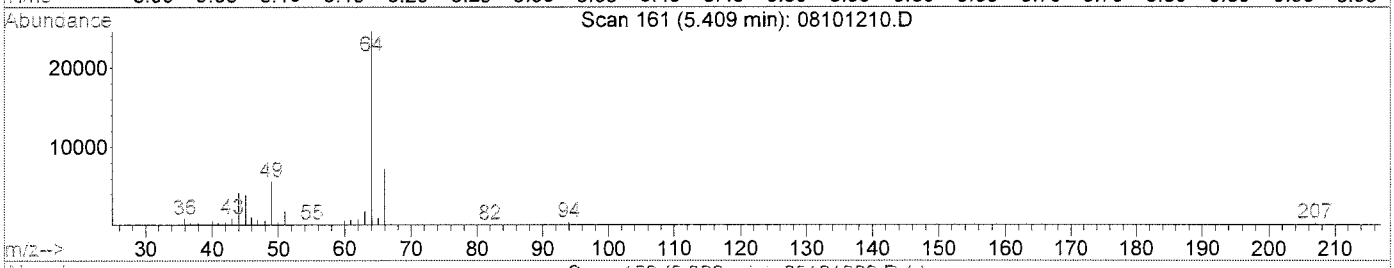


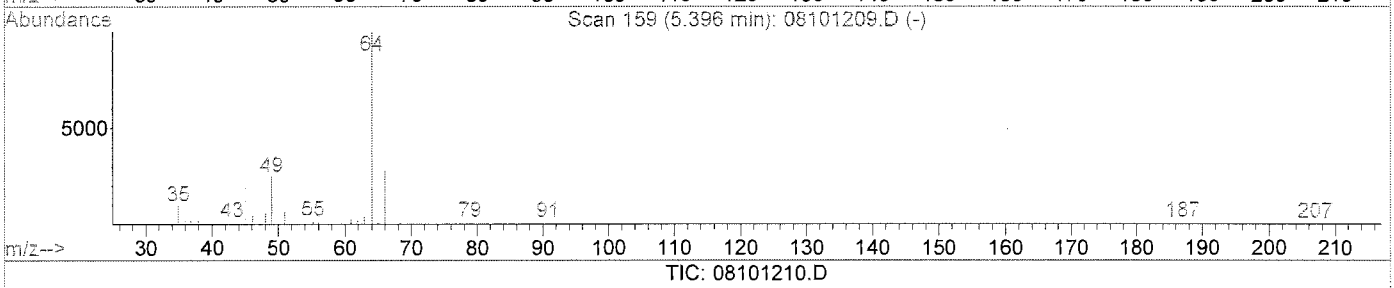
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 570.69ug/L

response 16581

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	36.61#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

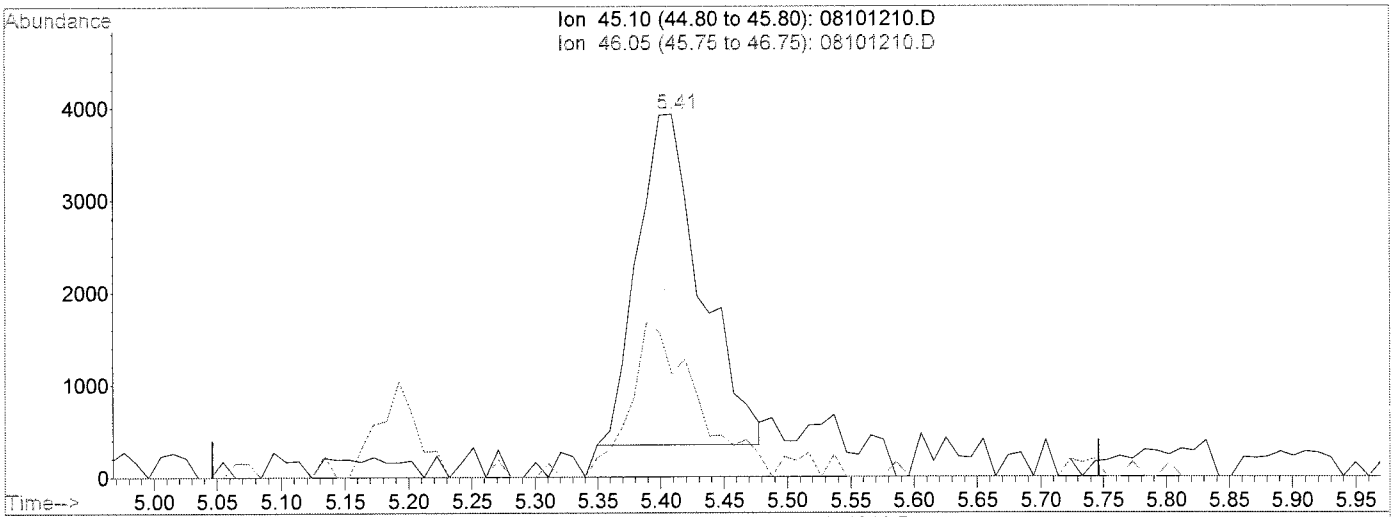
B

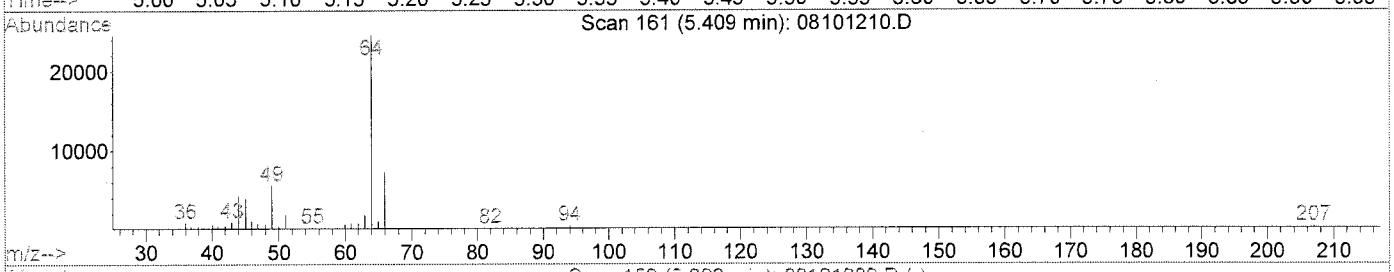
BL MM 8/13/12

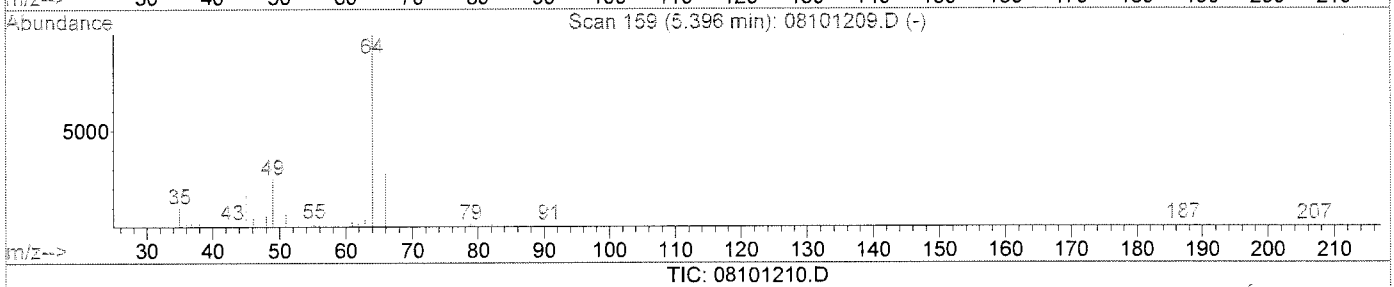
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 429.61ug/L m

response 12482

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.64
0.00	0.00	0.00
0.00	0.00	0.00

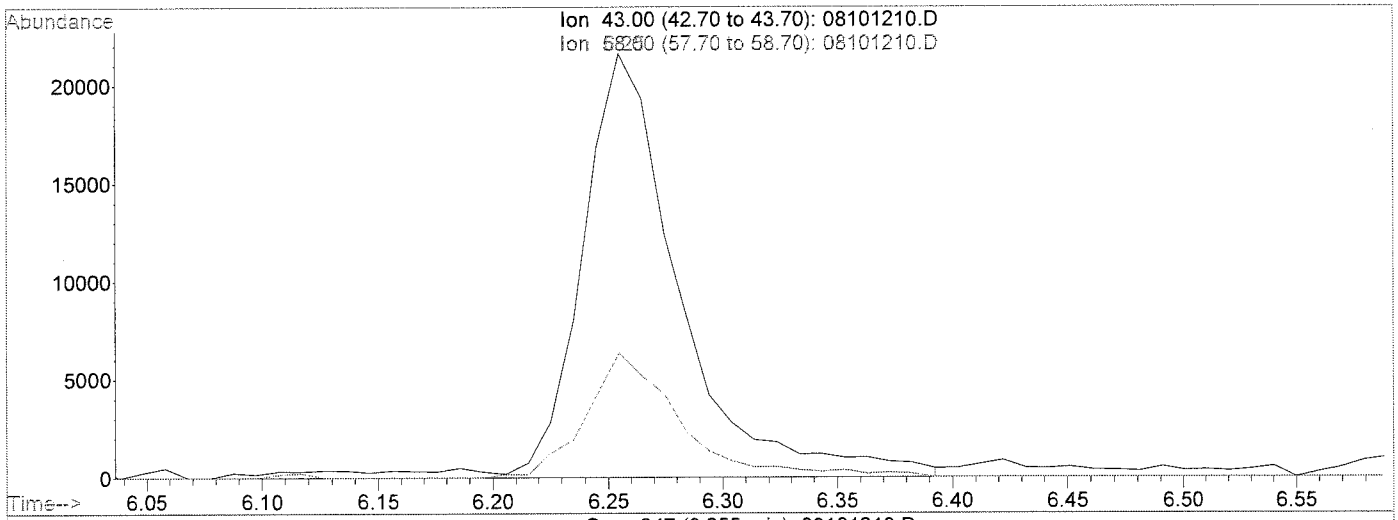
8/13/12

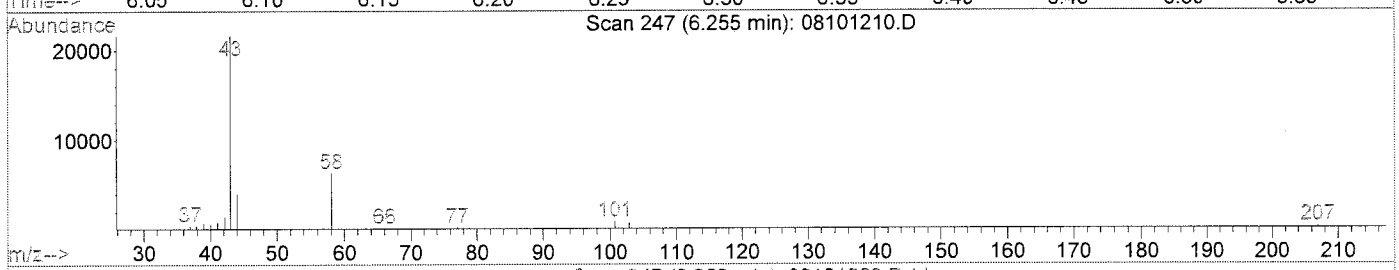
MNM 8/13/12

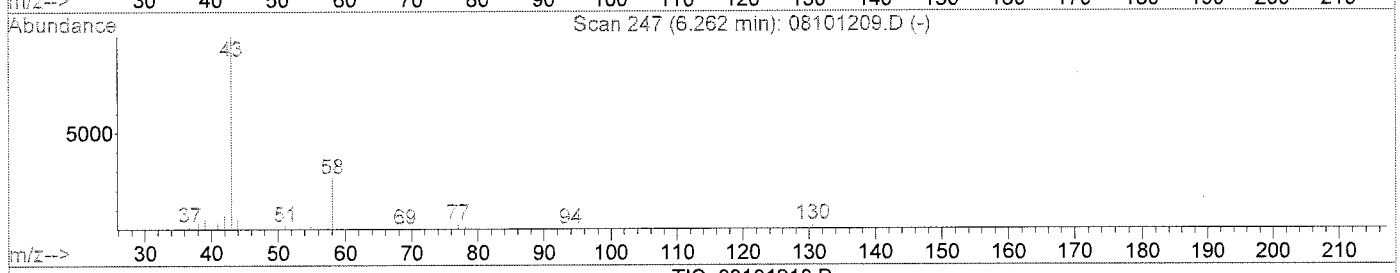
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 56.11ug/L

response 63143

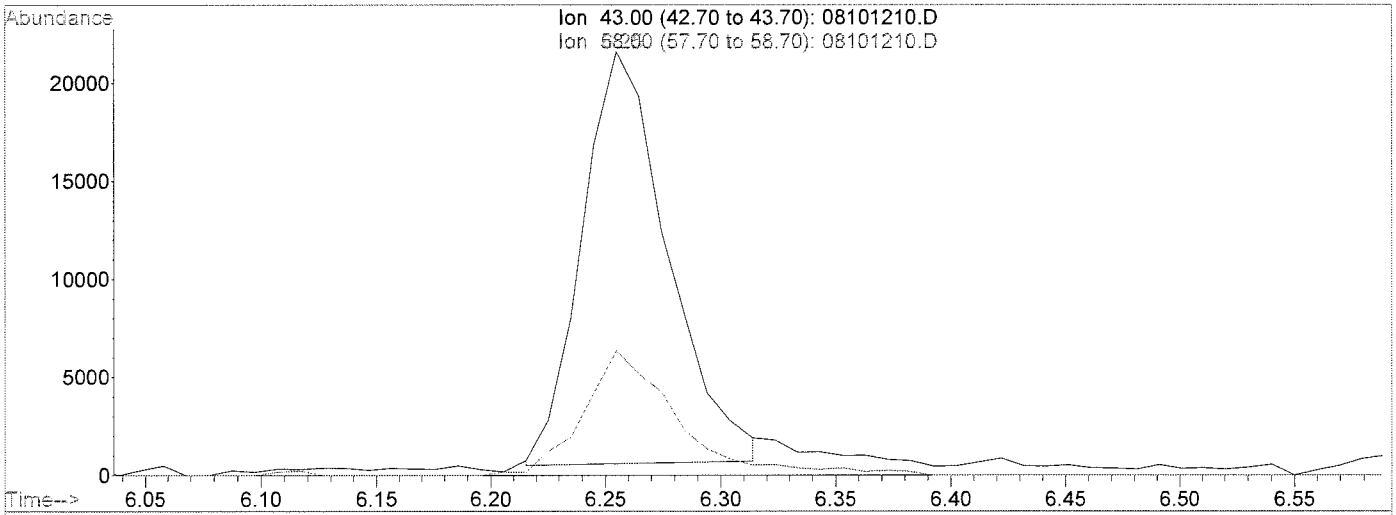
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

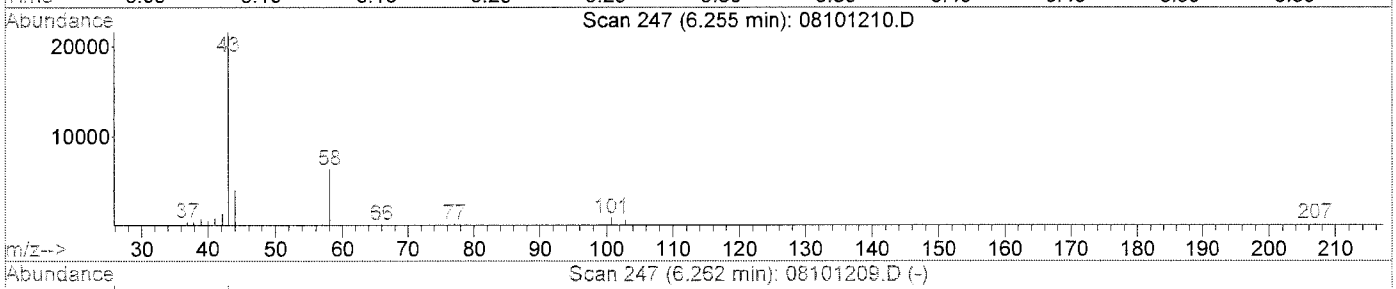
MNM 8/13/12

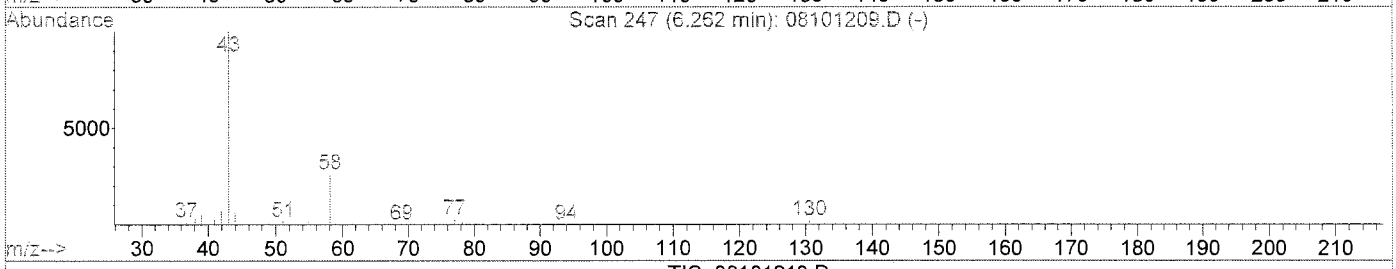
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(12) Acetone (T)

6.25min 48.26ug/L m

response 54317

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.29
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	46.80 ug/L	0.00
Spiked Amount 25.000			Recovery	= 187.20%	
48) Toluene-d8	13.33	98	687603	46.66 ug/L	0.00
Spiked Amount 25.000			Recovery	= 186.64%	
62) 4-Bromofluorobenzene	16.96	95	191956	46.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 184.44%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12482m	429.61 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	226.53 ug/L	99
5) Dichlorodifluoromethane	4.11	85	495471	50.51 ug/L	99
6) Chloromethane	4.36	50	463586	48.56 ug/L	98
7) Vinyl Chloride	4.63	62	430153	49.24 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	50.13 ug/L	99
9) Bromomethane	5.19	94	266149	49.88 ug/L	99
10) Chloroethane	5.38	64	224829	51.89 ug/L	97
11) Trichlorofluoromethane	6.12	101	394660	51.11 ug/L	100
12) Acetone	6.25	43	54317m	48.26 ug/L	
13) Iodomethane	6.86	142	447731	49.61 ug/L	100
14) 1,1-Dichloroethene	6.81	96	253470	47.16 ug/L	99
15) Methylene Chloride	7.00	84	232960	48.68 ug/L	98
16) Freon 113	7.07	101	270520	48.59 ug/L	97
17) Carbon disulfide	7.30	76	898748	51.41 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	303726	48.73 ug/L	99
19) MTBE	8.01	73	432429	49.07 ug/L	100
20) 1,1-Dichloroethane	8.18	63	476710	49.25 ug/L	99
21) Vinyl Acetate	8.34	43	345852	50.41 ug/L	99
22) n-Hexane	8.69	86	77107	50.40 ug/L	89
23) 2-Butanone (MEK)	8.72	72	17742	46.08 ug/L #	16
24) Diisopropyl Ether (DIPE)	8.73	45	798842	48.89 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	279884	49.33 ug/L	98
26) Bromochloromethane	9.12	128	116879	51.89 ug/L	92
27) Chloroform	9.18	83	417208	49.27 ug/L	99
28) 2,2-Dichloropropane	9.27	77	310117	48.38 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	48.67 ug/L	100
31) Tetrahydrofuran	9.60	72	16252	46.41 ug/L	89
32) 1,2-Dichloroethane	10.01	62	203344	49.78 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	353898	49.91 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	466510	49.07 ug/L	99
36) 1,1-Dichloropropene	10.38	75	398689	49.96 ug/L	98
37) Carbon Tetrachloride	10.61	117	317819	50.79 ug/L	99
38) Benzene	10.66	78	947346	49.75 ug/L	100
39) Dibromomethane	11.39	93	114917	51.12 ug/L	98
40) 1,2-Dichloropropane	11.44	63	221264	48.77 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	49.69 ug/L	99
42) Bromodichloromethane	11.55	83	271789	52.05 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	88468	51.59 ug/L	98
44) cis-1,3-Dichloropropene	12.38	75	321115	52.74 ug/L	99
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	47.91 ug/L	98
46) trans-1,3-Dichloropropene	12.95	75	237953	51.39 ug/L	99
47) 1,1,2-Trichloroethane	13.17	97	137777	52.19 ug/L	97
49) Toluene	13.42	92	546857	50.49 ug/L	99
51) 1,3-Dichloropropane	13.48	76	244280	51.06 ug/L	99
52) 2-Hexanone	13.68	43	100587	50.30 ug/L	96
53) Dibromochloromethane	13.85	129	183912	53.02 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	48.95 ug/L	97
55) Tetrachloroethene	14.41	164	226510	47.72 ug/L	98
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	49.15 ug/L	98
57) Chlorobenzene	15.32	112	554587	50.15 ug/L	98
58) Ethylbenzene	15.58	91	975473	50.50 ug/L	100
59) m,p-Xylenes	15.85	106	377996	51.28 ug/L	99
60) Styrene	16.30	104	514481	52.12 ug/L	99
61) o-Xylene	16.40	106	349209	51.26 ug/L	97
64) Bromoform	16.01	173	108591	53.31 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	49.23 ug/L	99
66) 1,2,3-Trichloropropane	16.59	110	37829	49.38 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	44.24 ug/L	89
68) Isopropylbenzene	16.90	105	857226	48.50 ug/L	98
69) Bromobenzene	17.25	156	212979	49.45 ug/L	97
70) n-Propylbenzene	17.51	91	1098531	48.96 ug/L	100
71) 2-Chlorotoluene	17.65	91	577687	47.62 ug/L	99
72) 4-Chlorotoluene	17.75	91	568985	47.96 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	676601	49.08 ug/L	100
74) tert-Butylbenzene	18.30	119	601956	48.89 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	638890	49.00 ug/L	99
76) sec-Butylbenzene	18.61	105	960020	48.19 ug/L	100
77) 1,3-Dichlorobenzene	18.72	146	388318	49.55 ug/L	98
78) 1,4-Dichlorobenzene	18.81	146	375463	48.86 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	49.72 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	317732	49.79 ug/L	100
81) n-Butylbenzene	19.39	91	715599	49.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	53.36 ug/L	98
83) 1,2,4-Trichlorobenzene	21.51	180	170461	49.82 ug/L	97
84) Napthalene	21.83	128	258045	47.14 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	50.23 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	49.90 ug/L	96

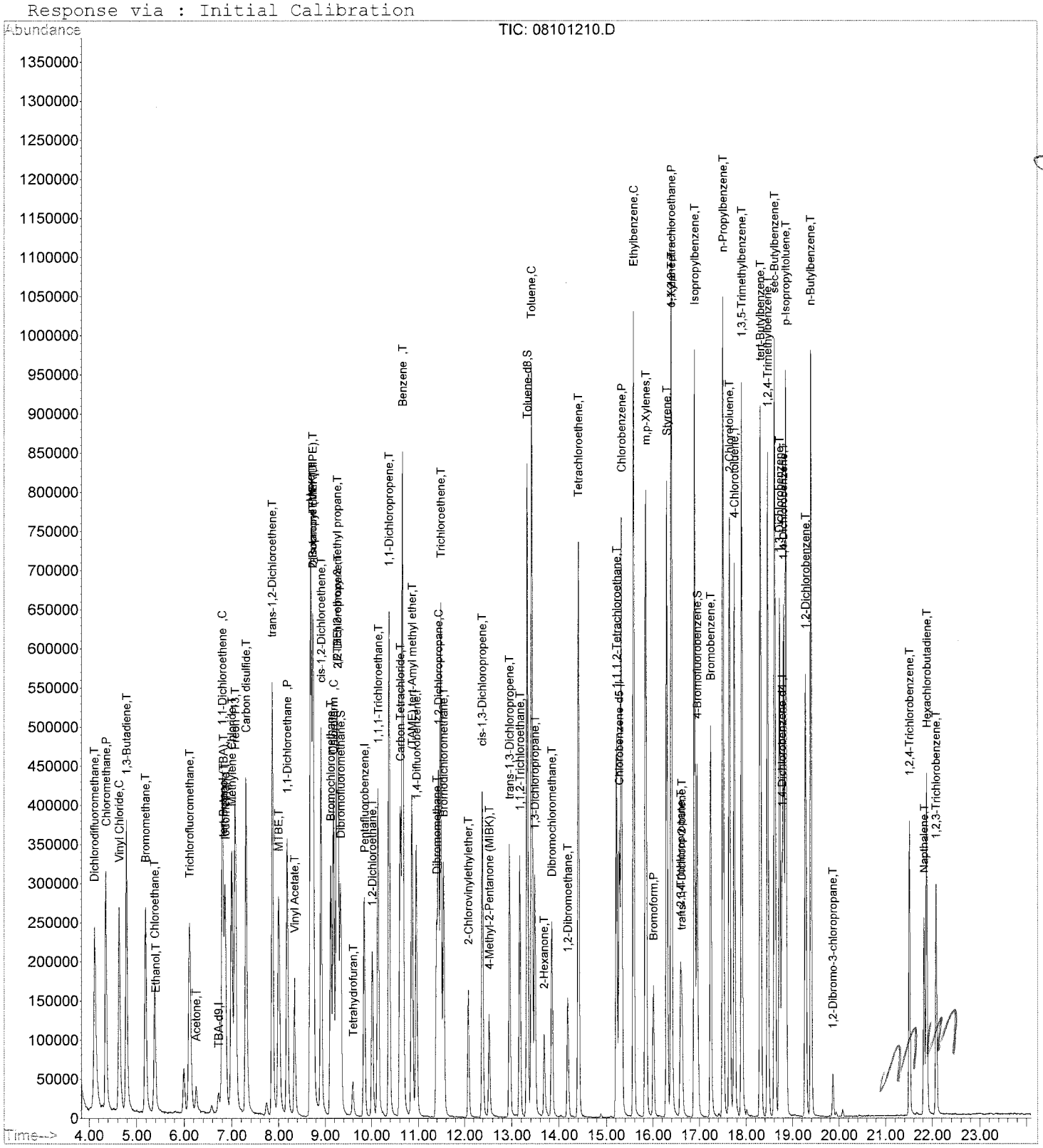
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

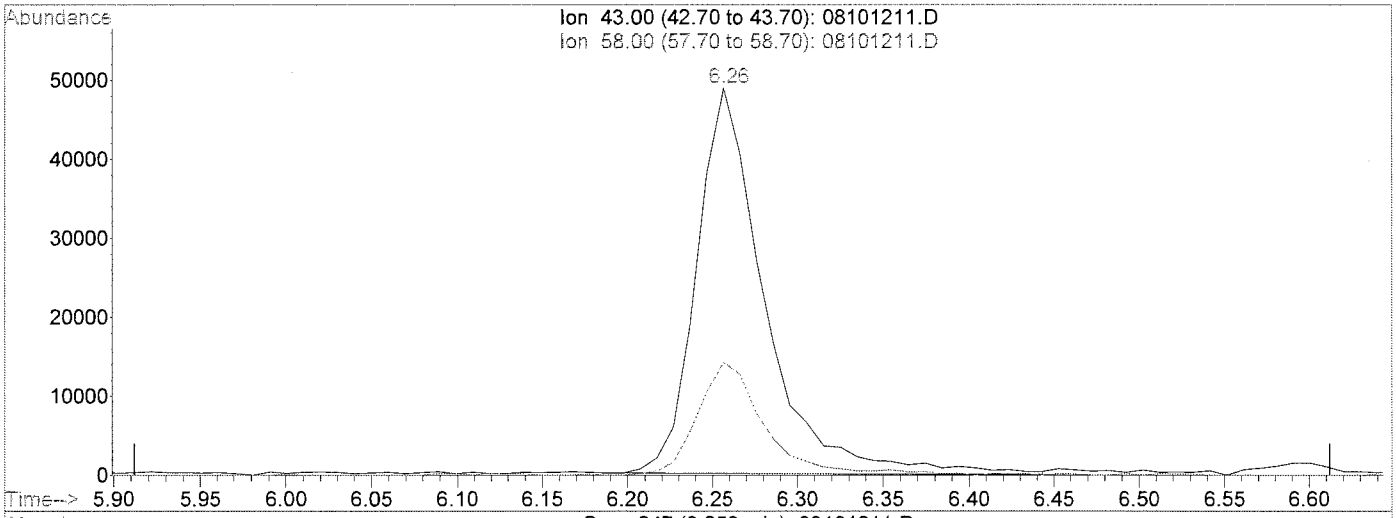
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

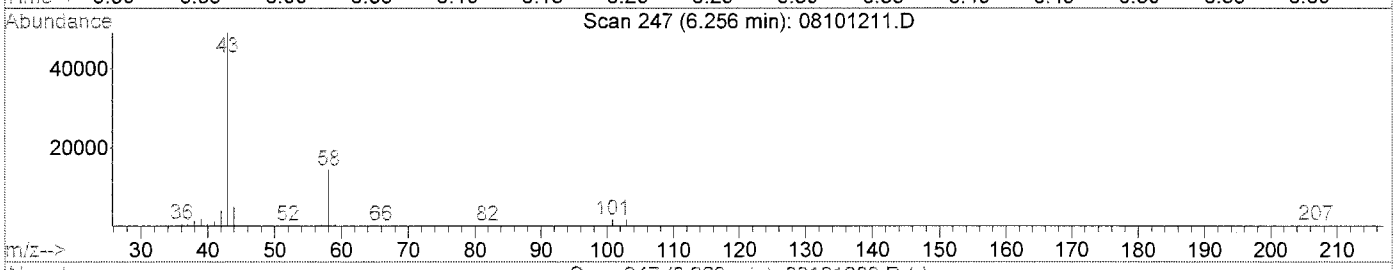


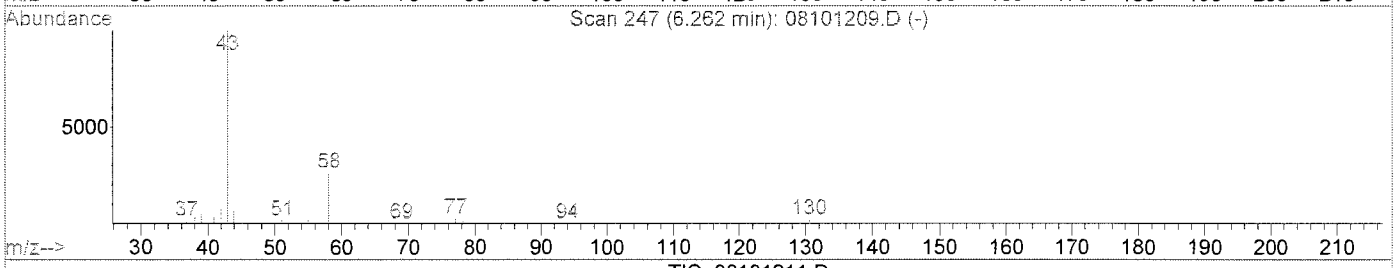
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 119.31ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

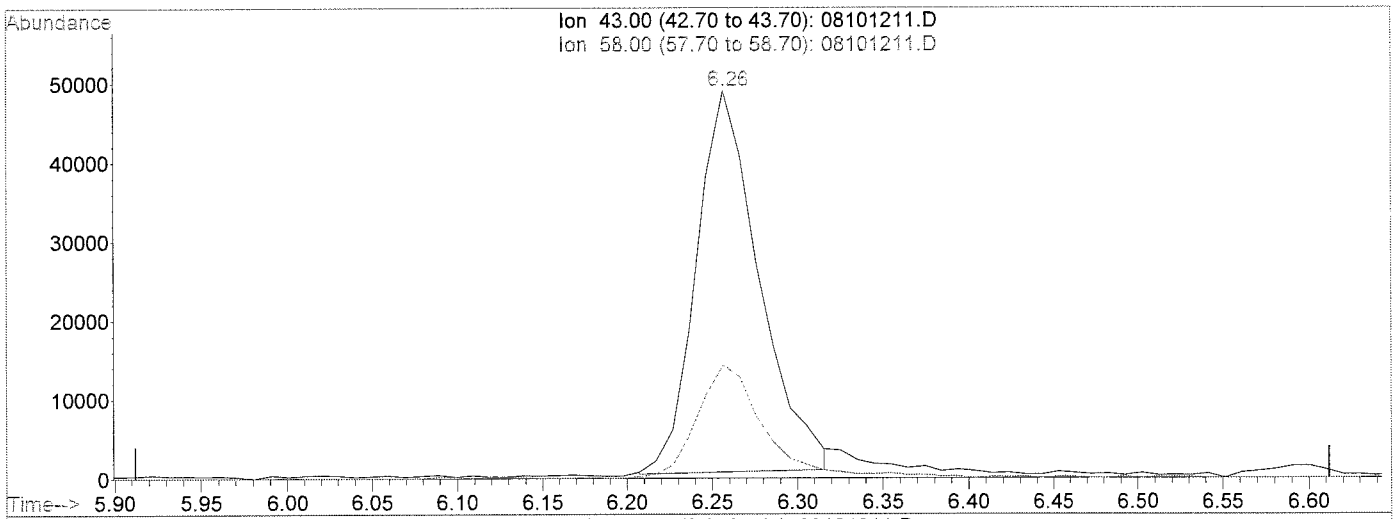
8/13/12

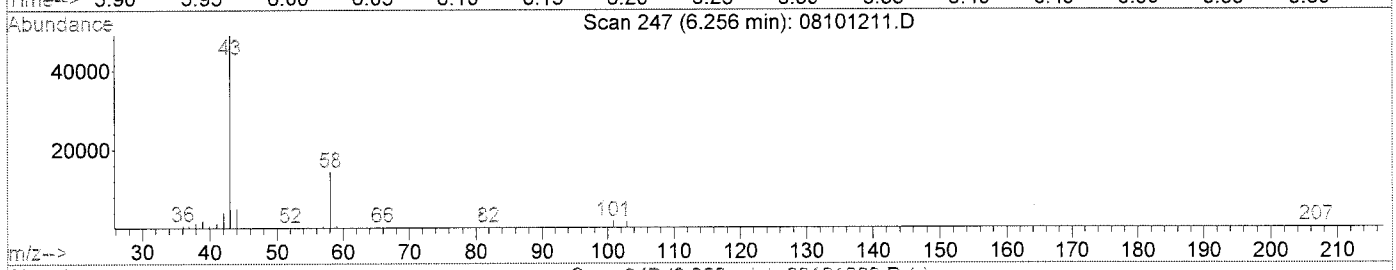
MM 8/13/12

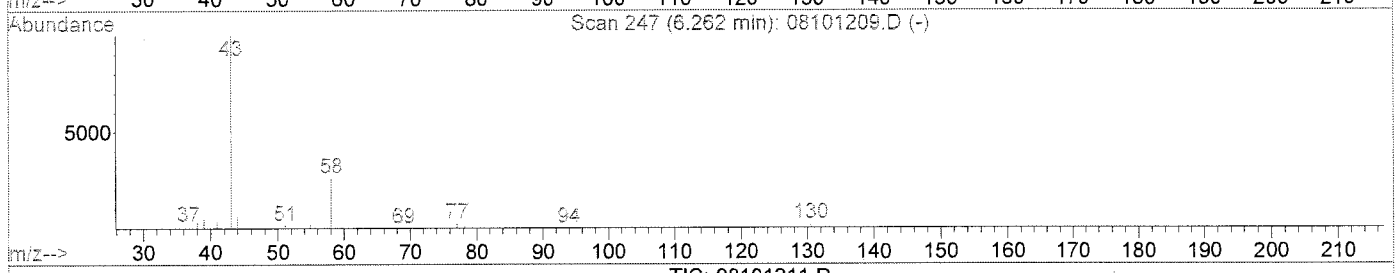
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

8/13/12

(12) Acetone (T)

6.26min 107.84ug/L m

response 123668

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.93
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.34	113	462369	97.05	ug/L	0.00
Spiked Amount 25.000			Recovery	=	388.20%	
48) Toluene-d8	13.33	98	1402084	92.28	ug/L	0.00
Spiked Amount 25.000			Recovery	=	369.12%	
62) 4-Bromofluorobenzene	16.96	95	412368	97.91	ug/L	0.00
Spiked Amount 25.000			Recovery	=	391.64%	
Target Compounds						Qvalue
2) Ethanol	5.40	45	34443	1066.46	ug/L	82
3) tert-Butanol (TBA)	6.84	59	168336	480.39	ug/L	99
5) Dichlorodifluoromethane	4.11	85	964320	96.48	ug/L	99
6) Chloromethane	4.35	50	890682	91.56	ug/L	100
7) Vinyl Chloride	4.63	62	798541	89.71	ug/L	100
8) 1,3-Butadiene	4.78	54	462070	95.97	ug/L	99
9) Bromomethane	5.18	94	525441	96.65	ug/L	100
10) Chloroethane	5.38	64	441624	100.03	ug/L	99
11) Trichlorofluoromethane	6.11	101	763247	97.00	ug/L	99
12) Acetone	6.26	43	123668m	107.84	ug/L	
13) Iodomethane	6.87	142	901113	97.99	ug/L	98
14) 1,1-Dichloroethene	6.81	96	508761	92.90	ug/L	97
15) Methylene Chloride	7.00	84	470851	96.56	ug/L	99
16) Freon 113	7.07	101	528427	93.16	ug/L	97
17) Carbon disulfide	7.30	76	1756954	98.64	ug/L	97
18) trans-1,2-Dichloroethene	7.86	96	597492	94.07	ug/L	98
19) MTBE	8.01	73	913608	101.74	ug/L	100
20) 1,1-Dichloroethane	8.18	63	943450	95.66	ug/L	99
21) Vinyl Acetate	8.34	43	745936	106.70	ug/L	100
22) n-Hexane	8.69	86	148544	95.28	ug/L	92
23) 2-Butanone (MEK)	8.73	72	42692	108.81	ug/L #	68
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	98.54	ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	568187	98.27	ug/L	97
26) Bromochloromethane	9.12	128	236072	102.86	ug/L	91
27) Chloroform	9.18	83	844569	97.89	ug/L	98
28) 2,2-Dichloropropane	9.28	77	597220	91.44	ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	100.10	ug/L	99
31) Tetrahydrofuran	9.60	72	36606	102.58	ug/L	84
32) 1,2-Dichloroethane	10.01	62	408116	98.06	ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	706415	97.76	ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	105.21	ug/L	99
36) 1,1-Dichloropropene	10.38	75	752175	91.42	ug/L	99
37) Carbon Tetrachloride	10.61	117	629787	97.64	ug/L	99
38) Benzene	10.66	78	1918047	97.70	ug/L	99
39) Dibromomethane	11.39	93	240215	103.65	ug/L	98
40) 1,2-Dichloropropane	11.44	63	454008	97.06	ug/L	98

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	523897	95.19 ug/L	99
42)	Bromodichloromethane	11.55	83	571821	106.22 ug/L	99
43)	2-Chlorovinylethylether	12.09	63	190358	107.67 ug/L	99
44)	cis-1,3-Dichloropropene	12.38	75	663914	105.77 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	104.38 ug/L	98
46)	trans-1,3-Dichloropropene	12.95	75	509355	106.70 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	286704	105.34 ug/L	98
49)	Toluene	13.43	92	1076337	96.40 ug/L	98
51)	1,3-Dichloropropane	13.49	76	517001	106.83 ug/L	99
52)	2-Hexanone	13.68	43	235539	116.44 ug/L	97
53)	Dibromochloromethane	13.85	129	396223	112.92 ug/L	99
54)	1,2-Dibromoethane	14.18	107	308443	104.89 ug/L	98
55)	Tetrachloroethene	14.41	164	452394	94.22 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	96.65 ug/L	96
57)	Chlorobenzene	15.33	112	1118631	99.99 ug/L	99
58)	Ethylbenzene	15.58	91	1923271	98.42 ug/L	100
59)	m,p-Xylenes	15.85	106	762608	102.28 ug/L	98
60)	Styrene	16.30	104	1032436	103.40 ug/L	99
61)	o-Xylene	16.40	106	651161	94.50 ug/L	98
64)	Bromoform	16.01	173	219950	111.30 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	98.23 ug/L	98
66)	1,2,3-Trichloropropane	16.59	110	78214	105.23 ug/L	98
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	102.10 ug/L	91
68)	Isopropylbenzene	16.90	105	1628971	95.00 ug/L	99
69)	Bromobenzene	17.24	156	425714	101.89 ug/L	97
70)	n-Propylbenzene	17.51	91	2114087	97.12 ug/L	100
71)	2-Chlorotoluene	17.65	91	1126734	95.74 ug/L	100
72)	4-Chlorotoluene	17.75	91	1125554	97.79 ug/L	99
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	92.30 ug/L	100
74)	tert-Butylbenzene	18.31	119	1083175	90.69 ug/L	99
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	92.98 ug/L	100
76)	sec-Butylbenzene	18.61	105	1705621	88.25 ug/L	99
77)	1,3-Dichlorobenzene	18.72	146	699081	91.94 ug/L	98
78)	1,4-Dichlorobenzene	18.82	146	702424	94.23 ug/L	99
79)	p-Isopropyltoluene	18.86	119	1317395	90.97 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	538352	86.95 ug/L	99
81)	n-Butylbenzene	19.40	91	1266655	91.21 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	90.22 ug/L	93
83)	1,2,4-Trichlorobenzene	21.50	180	271631	81.83 ug/L	98
84)	Napthalene	21.83	128	441804	83.19 ug/L	99
85)	Hexachlorobutadiene	21.89	225	166042	82.73 ug/L	96
86)	1,2,3-Trichlorobenzene	22.08	180	218534	91.95 ug/L	96

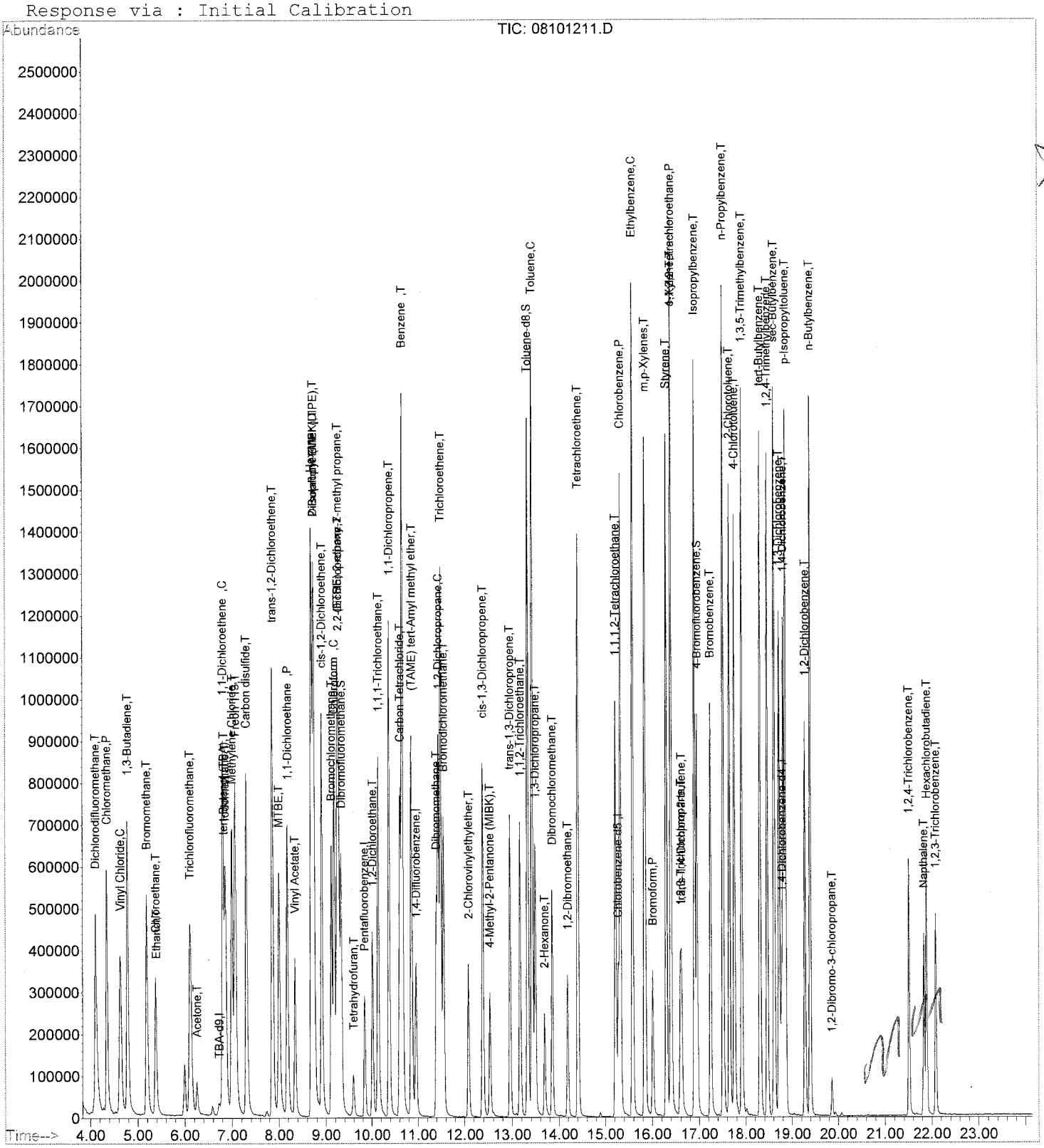
MM

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

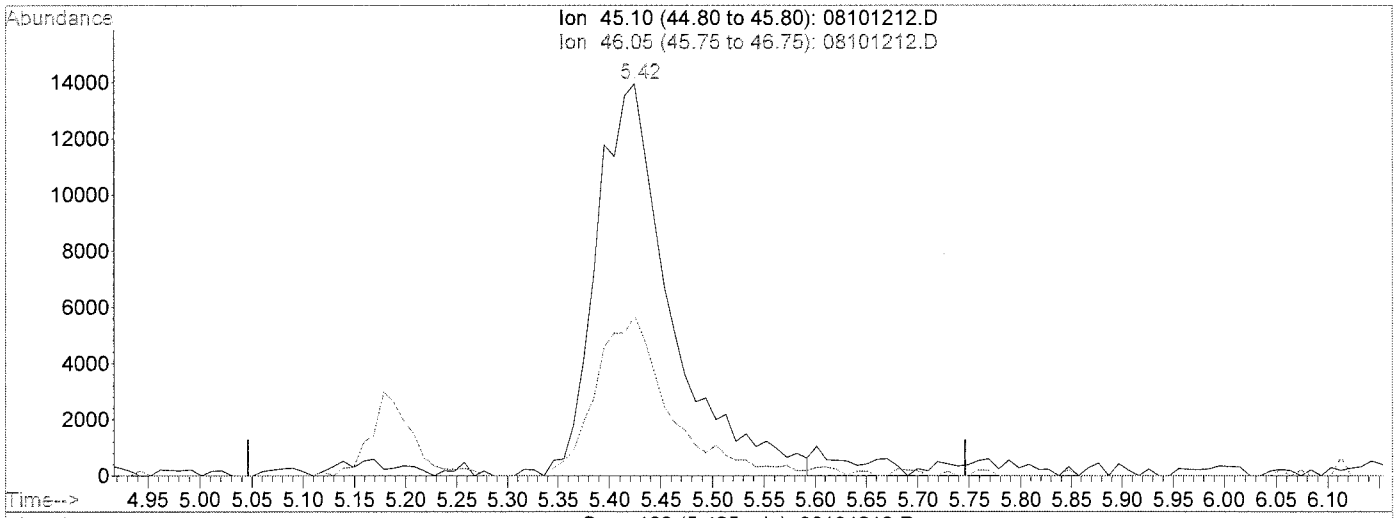
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

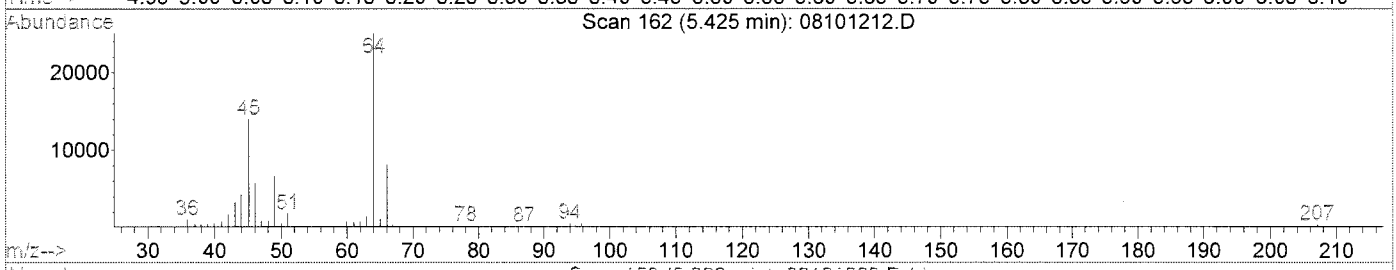


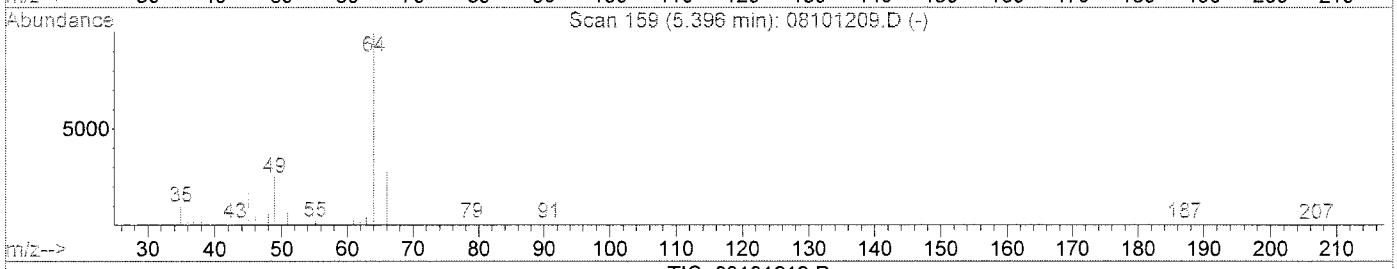
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2703.85ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	40.18
0.00	0.00	0.00
0.00	0.00	0.00

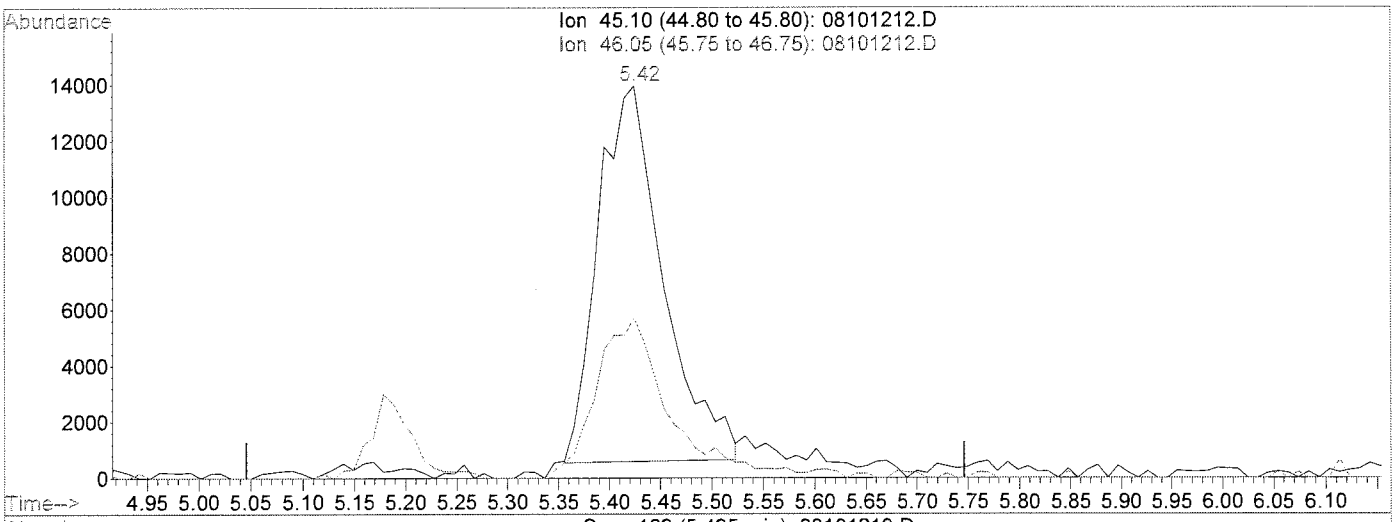
8/13/12

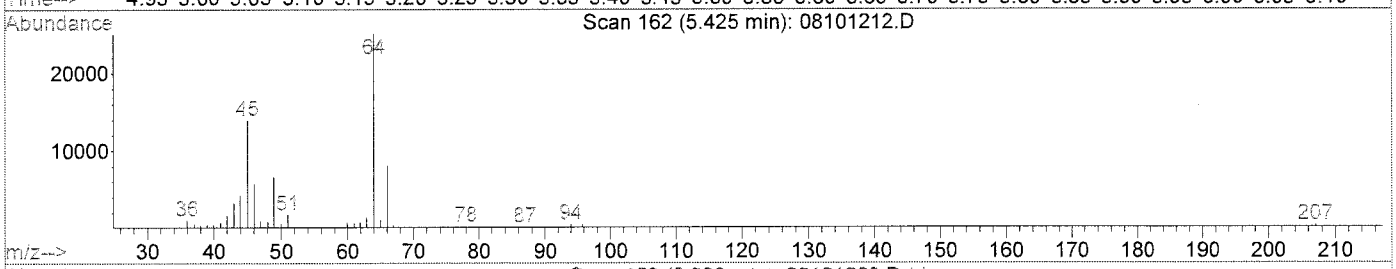
8/13/12

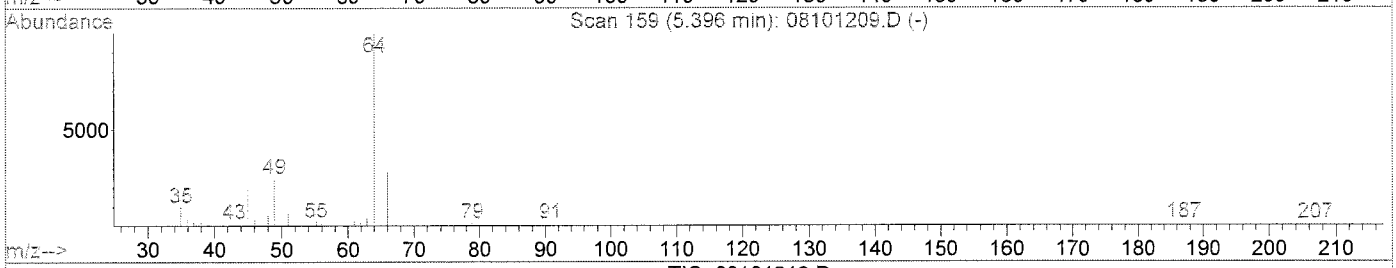
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2281.93ug/L m

response 59141

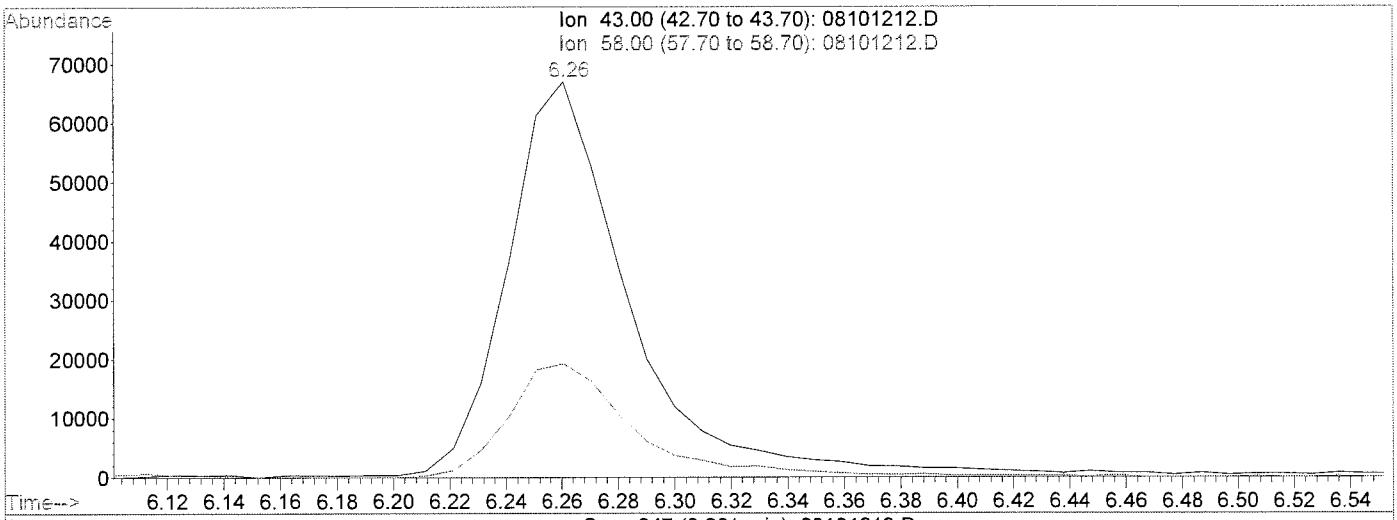
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	47.60
0.00	0.00	0.00
0.00	0.00	0.00

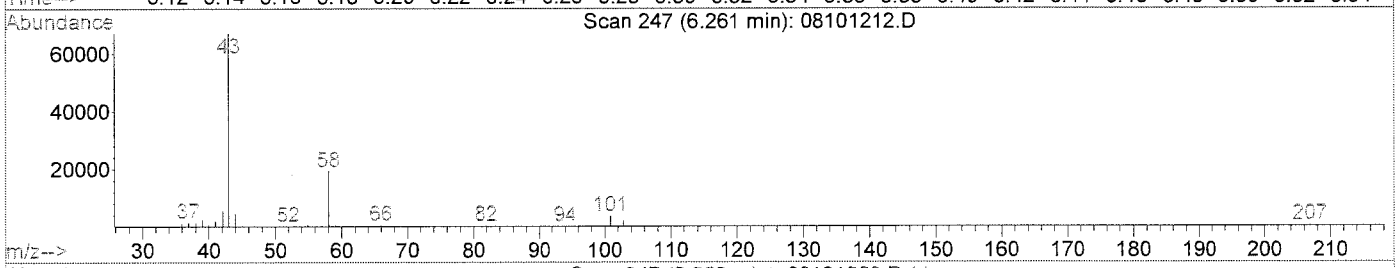
MNM 8/13/12

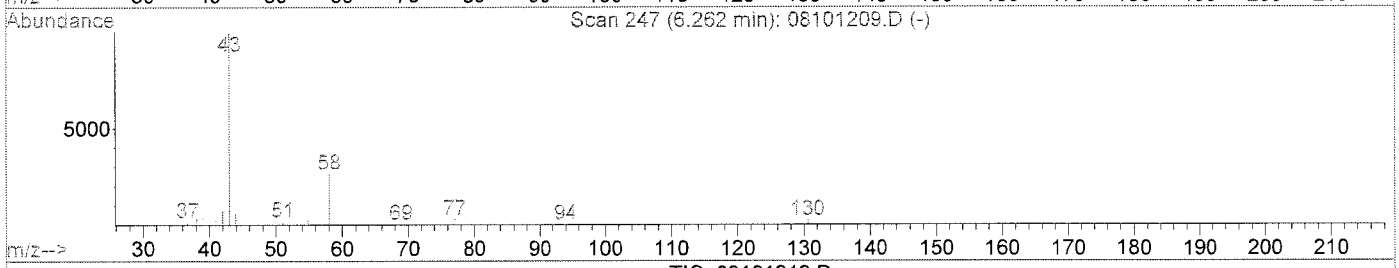
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(12) Acetone (T)

6.26min 184.35ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.87
0.00	0.00	0.00
0.00	0.00	0.00

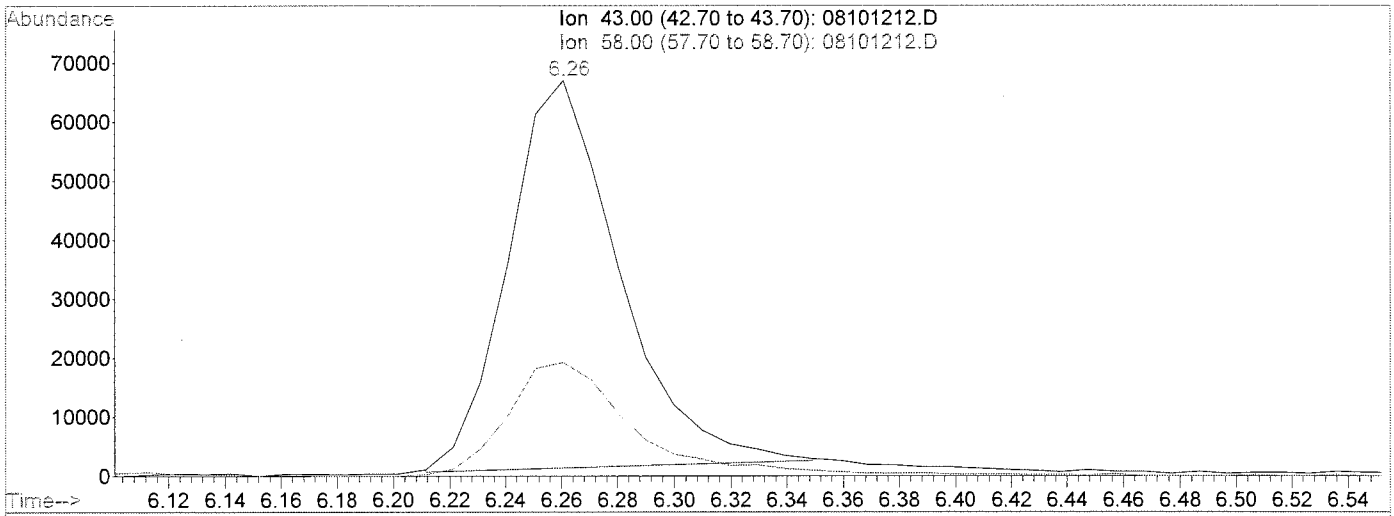
8/13/12

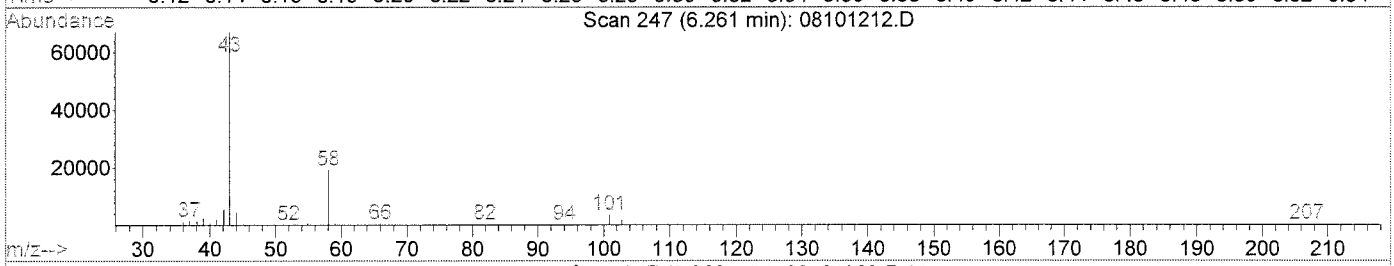
MNM 8/13/12

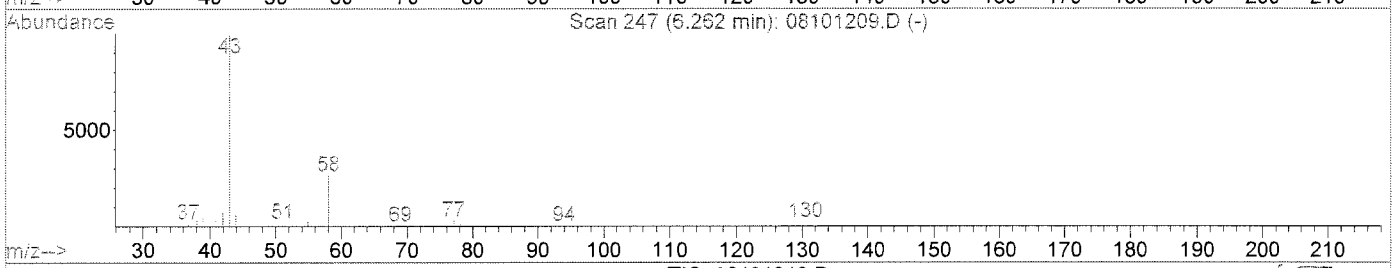
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 163.38ug/L m

response 180852

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.70
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	201.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 804.64%	
48) Toluene-d8	13.33	98	2766585	192.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 771.04%	
62) 4-Bromofluorobenzene	16.96	95	772758	192.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 769.04%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59141m	2281.93 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1073.03 ug/L	98
5) Dichlorodifluoromethane	4.12	85	1798928	186.45 ug/L	99
6) Chloromethane	4.35	50	1637264	174.37 ug/L	99
7) Vinyl Chloride	4.62	62	1314614	152.99 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	185.70 ug/L	100
9) Bromomethane	5.19	94	991158	188.88 ug/L	100
10) Chloroethane	5.38	64	798291	187.32 ug/L	99
11) Trichlorofluoromethane	6.11	101	1442227	189.88 ug/L	99
12) Acetone	6.26	43	180852m	163.38 ug/L	
13) Iodomethane	6.86	142	1691791	190.58 ug/L	98
14) 1,1-Dichloroethene	6.80	96	959183	181.45 ug/L	97
15) Methylene Chloride	7.00	84	866879	184.17 ug/L	98
16) Freon 113	7.07	101	1005834	183.70 ug/L	96
17) Carbon disulfide	7.30	76	3351895	194.95 ug/L	98
18) trans-1,2-Dichloroethene	7.86	96	1151435	187.81 ug/L	98
19) MTBE	8.00	73	1705610	196.77 ug/L	100
20) 1,1-Dichloroethane	8.18	63	1809927	190.12 ug/L	100
21) Vinyl Acetate	8.34	43	1413743	209.50 ug/L	99
22) n-Hexane	8.69	86	285278	189.57 ug/L	88
23) 2-Butanone (MEK)	8.72	72	74546	196.84 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	192.93 ug/L	98
25) cis-1,2-Dichloroethene	8.92	96	1089239	195.17 ug/L	97
26) Bromochloromethane	9.12	128	469231	211.82 ug/L	95
27) Chloroform	9.18	83	1657554	199.03 ug/L	98
28) 2,2-Dichloropropane	9.28	77	1146423	181.84 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	194.76 ug/L	98
31) Tetrahydrofuran	9.60	72	68814	199.78 ug/L	84
32) 1,2-Dichloroethane	10.02	62	794737	197.82 ug/L	99
33) 1,1,1-Trichloroethane	10.15	97	1389872	199.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	197.49 ug/L	98
36) 1,1-Dichloropropene	10.38	75	1491816	191.94 ug/L	99
37) Carbon Tetrachloride	10.61	117	1253531	205.72 ug/L	99
38) Benzene	10.67	78	3652383	196.95 ug/L	99
39) Dibromomethane	11.40	93	460678	210.41 ug/L	99
40) 1,2-Dichloropropane	11.43	63	868011	196.44 ug/L	98

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	197.15 ug/L		98
42)	Bromodichloromethane	11.55	83	1076186	211.61 ug/L		100
43)	2-Chlorovinylethylether	12.09	63	356836	213.66 ug/L		99
44)	cis-1,3-Dichloropropene	12.39	75	1241936	209.44 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	196.96 ug/L		99
46)	trans-1,3-Dichloropropene	12.96	75	974996	216.21 ug/L		99
47)	1,1,2-Trichloroethane	13.18	97	546786	212.67 ug/L		97
49)	Toluene	13.42	92	2055027	194.84 ug/L		97
51)	1,3-Dichloropropane	13.49	76	938228	203.14 ug/L		99
52)	2-Hexanone	13.69	43	386586	200.24 ug/L		97
53)	Dibromochloromethane	13.85	129	760108	226.98 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	209.84 ug/L		99
55)	Tetrachloroethene	14.41	164	884667	193.06 ug/L		99
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	199.87 ug/L		98
57)	Chlorobenzene	15.33	112	2070815	193.94 ug/L		99
58)	Ethylbenzene	15.59	91	3553977	190.55 ug/L		98
59)	m,p-Xylenes	15.85	106	1442112	202.66 ug/L		96
60)	Styrene	16.30	104	1948462	204.46 ug/L		100
61)	o-Xylene	16.40	106	1266882	192.63 ug/L		95
64)	Bromoform	16.02	173	438702	258.97 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	199.73 ug/L		99
66)	1,2,3-Trichloropropane	16.60	110	133888	210.15 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	205.50 ug/L	#	86
68)	Isopropylbenzene	16.90	105	3024067	205.74 ug/L		97
69)	Bromobenzene	17.25	156	802086	223.96 ug/L		97
70)	n-Propylbenzene	17.51	91	3823645	204.92 ug/L		98
71)	2-Chlorotoluene	17.65	91	2041028	202.31 ug/L		100
72)	4-Chlorotoluene	17.76	91	2058362	208.62 ug/L		100
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	199.53 ug/L		99
74)	tert-Butylbenzene	18.31	119	1933954	188.89 ug/L		99
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	196.17 ug/L		99
76)	sec-Butylbenzene	18.62	105	3047825	183.96 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	1267811	194.51 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	1231960	192.79 ug/L		98
79)	p-Isopropyltoluene	18.86	119	2345916	188.97 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	944274	177.93 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	182.58 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	206.53 ug/L		87
83)	1,2,4-Trichlorobenzene	21.51	180	455405	160.04 ug/L		98
84)	Napthalene	21.83	128	697402	153.20 ug/L		99
85)	Hexachlorobutadiene	21.89	225	262810	226.56 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	329008	207.52 ug/L		96

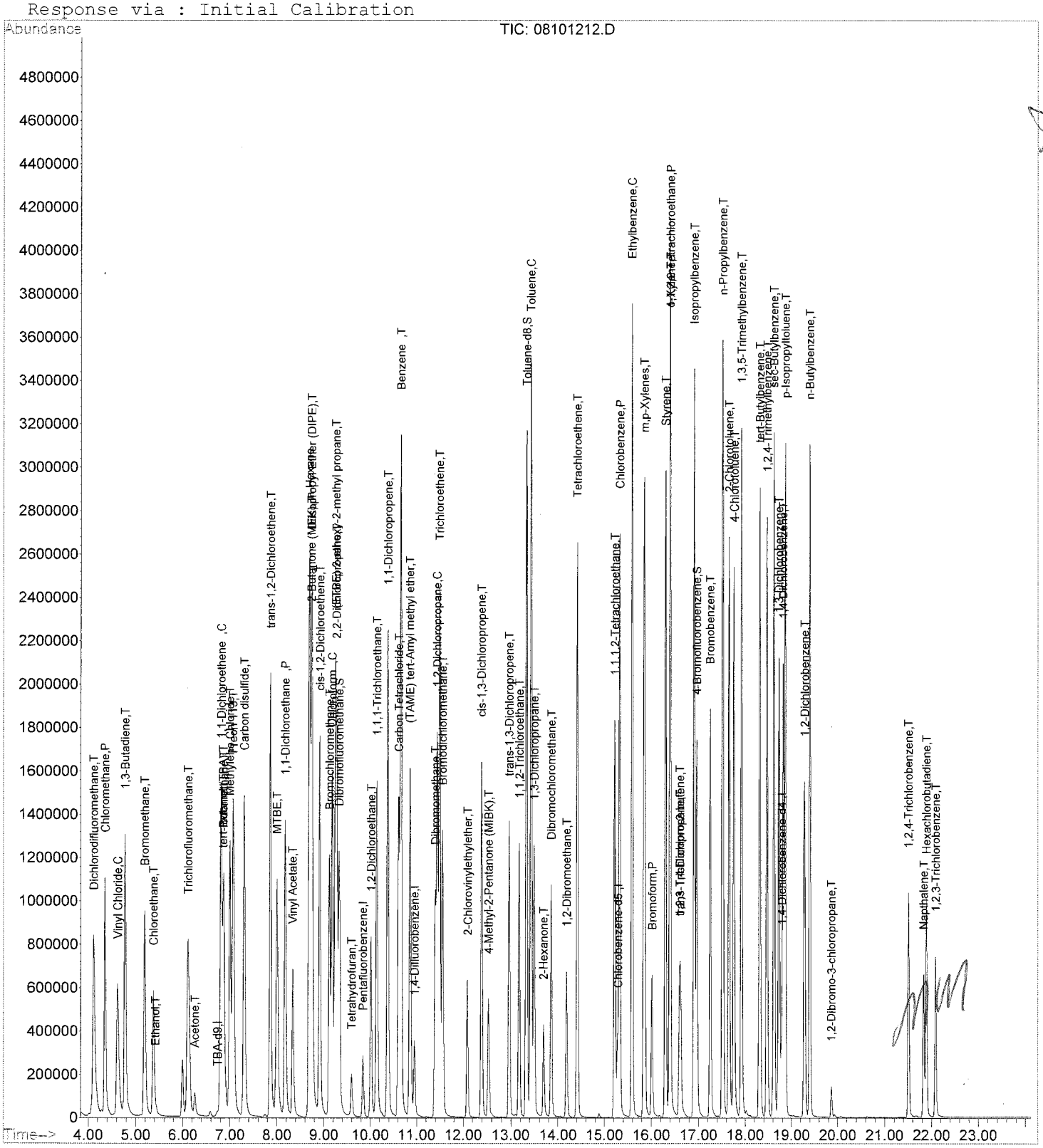
MM

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



08101212.D 081012.M Mon Aug 13 05:29:09 2012

624 CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

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Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F
2)	Ethanol	300.95	250	120.38	36	150	TRUE
3)	tert-Butanol (TBA)	153.29	125	122.64	70	134	TRUE
5)	Dichlorodifluoromethane	20.10	25	80.41	60	140	TRUE
6)	Chloromethane	24.20	25	96.79	0	204	TRUE
7)	Vinyl Chloride	25.13	25	100.54	4	196	TRUE
8)	1,3-Butadiene	38.03	25	152.10	50	141	FALSE NI
9)	Bromomethane	24.67	25	98.67	14	186	TRUE
10)	Chloroethane	24.83	25	99.30	38	162	TRUE
11)	Trichlorofluoromethane	25.82	25	103.27	48	152	TRUE
12)	Acetone	26.55	25	106.18	12	150	TRUE
13)	Iodomethane	26.45	25	105.80	40	150	TRUE
14)	1,1-Dichloroethene	23.27	25	93.10	50	150	TRUE
15)	Methylene Chloride	23.80	25	95.18	60	140	TRUE
16)	Freon 113	24.41	25	97.63	76	124	TRUE
17)	Carbon disulfide	26.18	25	104.72	64	136	TRUE
18)	trans-1,2-Dichloroethene	23.89	25	95.55	70	130	TRUE
19)	MTBE	23.56	25	94.24	64	140	TRUE
20)	1,1-Dichloroethane	23.84	25	95.36	72	128	TRUE
21)	Vinyl Acetate	28.25	25	112.98	48	150	TRUE
22)	n-Hexane	22.51	25	90.04	56	150	TRUE
23)	2-Butanone (MEK)	25.12	25	100.48	44	150	TRUE
24)	Diisopropyl Ether (DIPE)	23.73	25	94.92	72	132	TRUE
25)	cis-1,2-Dichloroethene	24.69	25	98.76	72	128	TRUE
26)	Bromochloromethane	23.74	25	94.96	72	132	TRUE
27)	Chloroform	23.45	25	93.78	68	132	TRUE
28)	2,2-Dichloropropane	23.74	25	94.98	64	140	TRUE
29)	(ETBE) 2-ethoxy-2-methyl propan	22.20	25	88.79	72	140	TRUE
30)	**Dibromofluoromethane**	**25.41**	25	101.66	80	120	**TRUE**
31)	Tetrahydrofuran	24.22	25	96.88	64	139	TRUE
32)	1,2-Dichloroethane	25.30	25	101.21	68	132	TRUE
33)	1,1,1-Trichloroethane	24.27	25	97.08	75	125	TRUE
34)	(TAME) tert-Amyl methyl ether	24.10	25	96.39	68	140	TRUE
36)	1,1-Dichloropropene	23.93	25	95.73	76	128	TRUE
37)	Carbon Tetrachloride	24.31	25	97.26	73	127	TRUE
38)	Benzene	24.82	25	99.27	64	136	TRUE

MM 8/13/12

39) Dibromomethane	24.98	25	99.92	72	132	TRUE
40) 1,2-Dichloropropane	23.49	25	93.96	34	166	TRUE
41) Trichloroethene	23.76	25	95.04	66	133	TRUE
42) Bromodichloromethane	25.13	25	100.53	66	134	TRUE
43) 2-Chlorovinylethylether	25.34	25	101.37	0	224	TRUE
44) cis-1,3-Dichloropropene	25.16	25	100.65	24	176	TRUE
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107.40	60	144	TRUE
46) trans-1,3-Dichloropropene	25.25	25	101.01	50	150	TRUE
47) 1,1,2-Trichloroethane	25.95	25	103.82	71	129	TRUE
48) **Toluene-d8**	**24.62**	25	98.47	80	120	**TRUE**
49) Toluene	24.90	25	99.58	74	126	TRUE
51) 1,3-Dichloropropane	25.40	25	101.59	80	124	TRUE
52) 2-Hexanone	26.85	25	107.40	52	150	TRUE
53) Dibromochloromethane	24.64	25	98.56	68	132	TRUE
54) 1,2-Dibromoethane	24.98	25	99.93	80	128	TRUE
55) Tetrachloroethene	22.60	25	90.40	74	126	TRUE
56) 1,1,1,2-Tetrachloroethane	23.23	25	92.90	76	124	TRUE
57) Chlorobenzene	23.54	25	94.14	66	134	TRUE
58) Ethylbenzene	25.07	25	100.26	59	141	TRUE
59) m,p-Xylenes	24.18	25	96.72	80	120	TRUE
60) Styrene	24.75	25	98.98	84	124	TRUE
61) o-Xylene	23.64	25	94.54	72	128	TRUE
62) **4-Bromofluorobenzene**	**26.12**	25	104.48	80	120	**TRUE**
64) Bromoform	25.45	25	101.80	71	129	TRUE
65) 1,1,2,2-Tetrachloroethane	26.77	25	107.09	61	140	TRUE
66) 1,2,3-Trichloropropane	25.76	25	103.05	76	128	TRUE
67) trans-1,4-Dichloro-2-butene	21.70	25	86.80	48	138	TRUE
68) Isopropylbenzene	26.26	25	105.06	76	132	TRUE
69) Bromobenzene	24.25	25	96.98	76	128	TRUE
70) n-Propylbenzene	24.96	25	99.84	76	132	TRUE
71) 2-Chlorotoluene	24.53	25	98.10	80	124	TRUE
72) 4-Chlorotoluene	23.93	25	95.74	80	124	TRUE
73) 1,3,5-Trimethylbenzene	24.02	25	96.08	80	128	TRUE
74) tert-Butylbenzene	24.77	25	99.08	76	132	TRUE
75) 1,2,4-Trimethylbenzene	24.49	25	97.94	80	128	TRUE
76) sec-Butylbenzene	24.19	25	96.77	80	128	TRUE
77) 1,3-Dichlorobenzene	24.21	25	96.86	73	127	TRUE
78) 1,4-Dichlorobenzene	23.21	25	92.83	63	137	TRUE
79) p-Isopropyltoluene	24.67	25	98.70	80	128	TRUE
80) 1,2-Dichlorobenzene	23.88	25	95.53	63	137	TRUE
81) n-Butylbenzene	25.43	25	101.74	76	132	TRUE
82) 1,2-Dibromo-3-chloropropane	30.65	25	122.61	64	128	TRUE
83) 1,2,4-Trichlorobenzene	26.52	25	106.10	76	128	TRUE
84) Napthalene	28.97	25	115.87	68	136	TRUE
85) Hexachlorobutadiene	26.88	25	107.52	76	132	TRUE
86) 1,2,3-Trichlorobenzene	27.16	25	108.62	72	128	TRUE

MM

8260 CCV/ICV CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	300.95	250	120%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	153.29	125	123%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	20.10	25	80%	60%	140%	TRUE	
6)	Chloromethane	24.20	25	97%	48%	144%	TRUE	
7)	Vinyl Chloride	25.13	25	101%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	38.03	25	152%	50%	141%	FALSE	NA
9)	Bromomethane	24.67	25	99%	40%	144%	TRUE	
10)	Chloroethane	24.83	25	99%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.82	25	103%	68%	136%	TRUE	
12)	Acetone	26.55	25	106%	12%	150%	TRUE	
13)	Iodomethane	26.45	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	23.27	25	93%	80%	120%	TRUE	CCC
15)	Methylene Chloride	23.80	25	95%	68%	128%	TRUE	
16)	Freon 113	24.41	25	98%	76%	124%	TRUE	
17)	Carbon disulfide	26.18	25	105%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	23.89	25	96%	76%	120%	TRUE	
19)	MTBE	23.56	25	94%	64%	140%	TRUE	
20)	1,1-Dichloroethane	23.84	25	95%	72%	124%	TRUE	
21)	Vinyl Acetate	28.25	25	113%	48%	150%	TRUE	
22)	n-Hexane	22.51	25	90%	56%	150%	TRUE	
23)	2-Butanone (MEK)	25.12	25	100%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	23.73	25	95%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.69	25	99%	72%	128%	TRUE	
26)	Bromochloromethane	23.74	25	95%	72%	132%	TRUE	
27)	Chloroform	23.45	25	94%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	23.74	25	95%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	22.20	25	89%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.41**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	24.22	25	97%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.30	25	101%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	24.27	25	97%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	24.10	25	96%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.93	25	96%	76%	128%	TRUE	
37)	Carbon Tetrachloride	24.31	25	97%	72%	136%	TRUE	
38)	Benzene	24.82	25	99%	76%	120%	TRUE	

MM 8/13/12

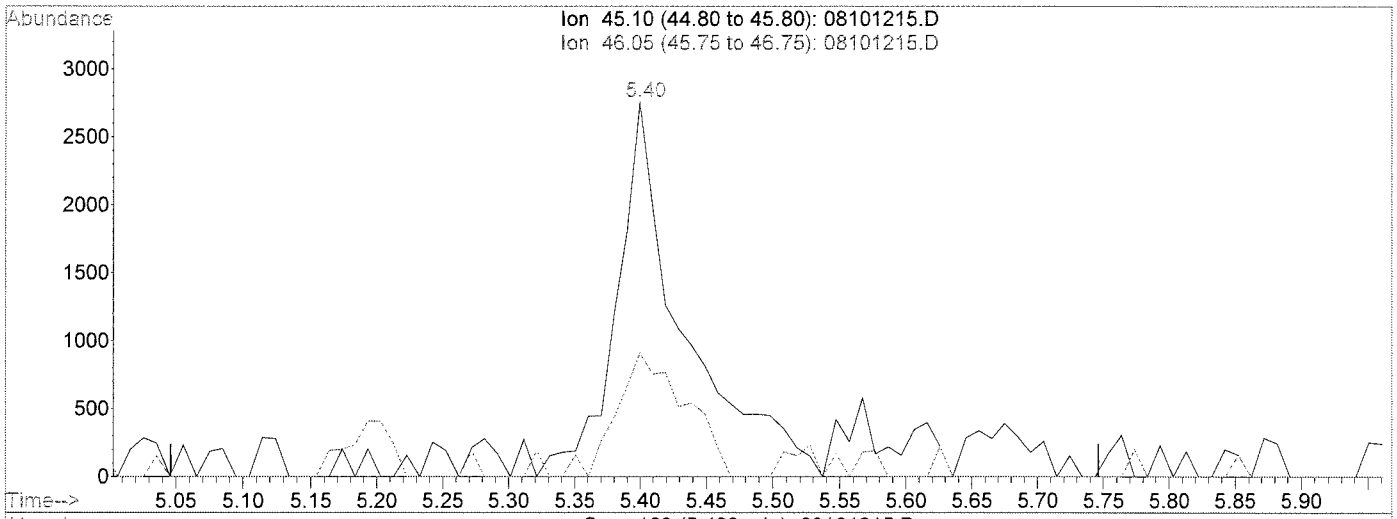
39) Dibromomethane	24.98	25	100%	72%	132%	TRUE	
40) 1,2-Dichloropropane	23.49	25	94%	80%	120%	TRUE	CCC
41) Trichloroethene	23.76	25	95%	80%	120%	TRUE	
42) Bromodichloromethane	25.13	25	101%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	25.34	25	101%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	25.16	25	101%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	25.25	25	101%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.95	25	104%	72%	132%	TRUE	
48) **Toluene-d8**	**24.62**	**25**	98%	80%	120%	**TRUE**	
49) Toluene	24.90	25	100%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	25.40	25	102%	80%	124%	TRUE	
52) 2-Hexanone	26.85	25	107%	52%	150%	TRUE	
53) Dibromochloromethane	24.64	25	99%	80%	128%	TRUE	
54) 1,2-Dibromoethane	24.98	25	100%	80%	128%	TRUE	
55) Tetrachloroethene	22.60	25	90%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	23.23	25	93%	76%	124%	TRUE	
57) Chlorobenzene	23.54	25	94%	80%	120%	TRUE	
58) Ethylbenzene	25.07	25	100%	80%	120%	TRUE	CCC
59) m,p-Xylenes	24.18	25	97%	80%	120%	TRUE	
60) Styrene	24.75	25	99%	84%	124%	TRUE	
61) o-Xylene	23.64	25	95%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**26.12**	**25**	104%	80%	120%	**TRUE**	
64) Bromoform	25.45	25	102%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.77	25	107%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	25.76	25	103%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	21.70	25	87%	48%	138%	TRUE	
68) Isopropylbenzene	26.26	25	105%	76%	132%	TRUE	
69) Bromobenzene	24.25	25	97%	76%	128%	TRUE	
70) n-Propylbenzene	24.96	25	100%	76%	132%	TRUE	
71) 2-Chlorotoluene	24.53	25	98%	80%	124%	TRUE	
72) 4-Chlorotoluene	23.93	25	96%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	24.02	25	96%	80%	128%	TRUE	
74) tert-Butylbenzene	24.77	25	99%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	24.49	25	98%	80%	128%	TRUE	
76) sec-Butylbenzene	24.19	25	97%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	23.21	25	93%	76%	120%	TRUE	
79) p-Isopropyltoluene	24.67	25	99%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	23.88	25	96%	80%	124%	TRUE	
81) n-Butylbenzene	25.43	25	102%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	30.65	25	123%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	26.52	25	106%	76%	128%	TRUE	
84) Napthalene	28.97	25	116%	68%	136%	TRUE	
85) Hexachlorobutadiene	26.88	25	108%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	27.16	25	109%	72%	128%	TRUE	

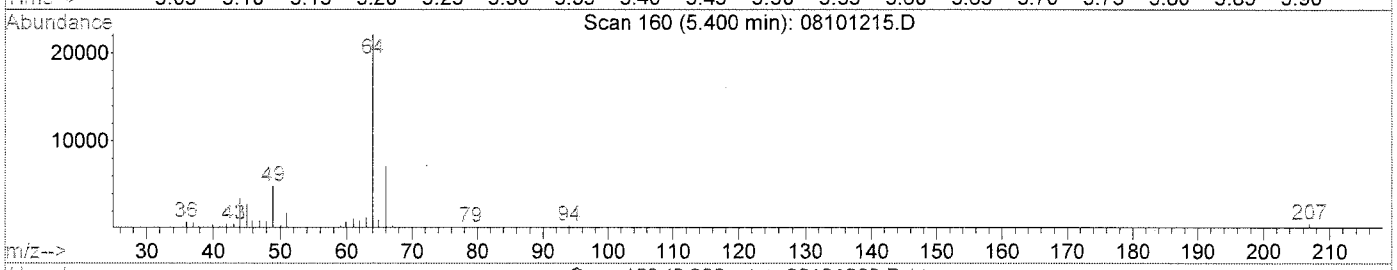
MM

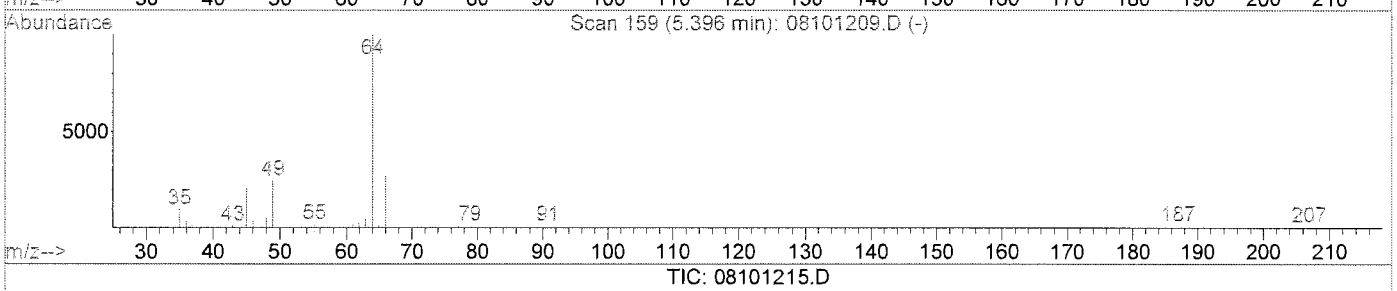
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(2) Ethanol (T)

5.40min 408.32ug/L

response 9735

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	34.49#
0.00	0.00	0.00
0.00	0.00	0.00

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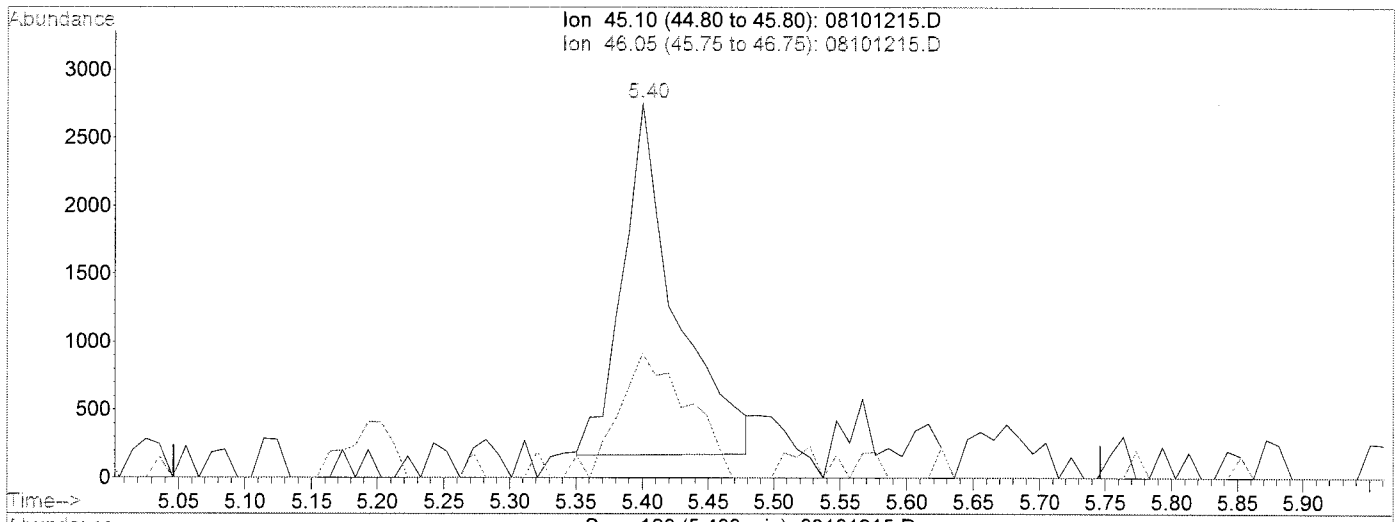
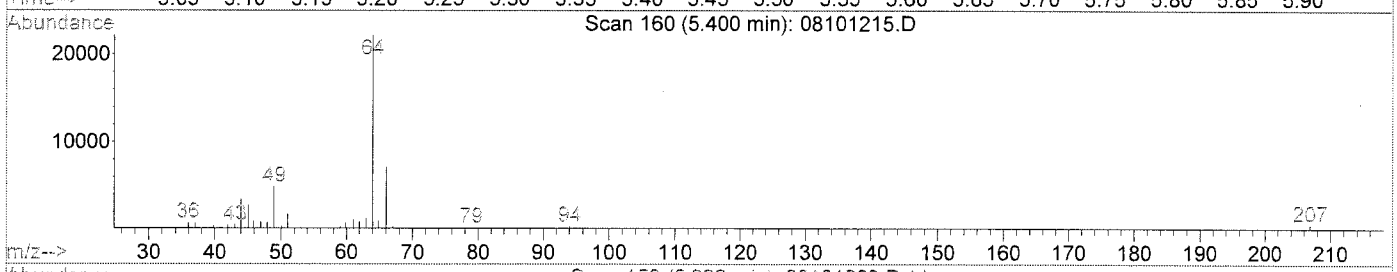
BL MNM 8/13/12

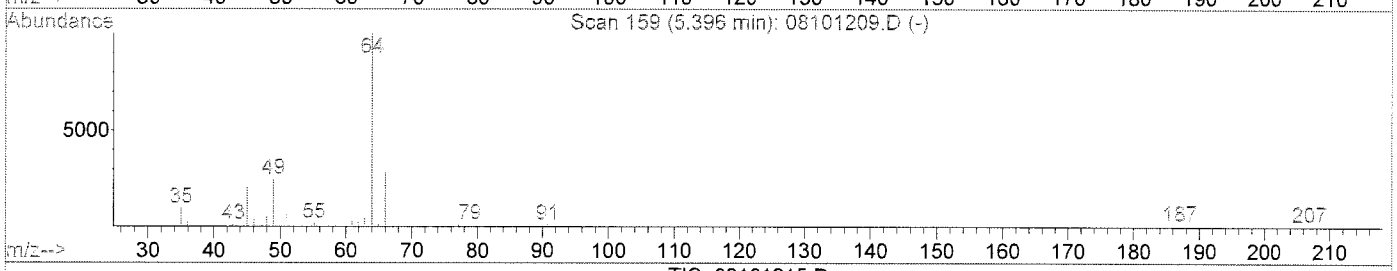
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(2) Ethanol (T)

5.40min 300.95ug/L m

response 7175

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	46.80
0.00	0.00	0.00
0.00	0.00	0.00

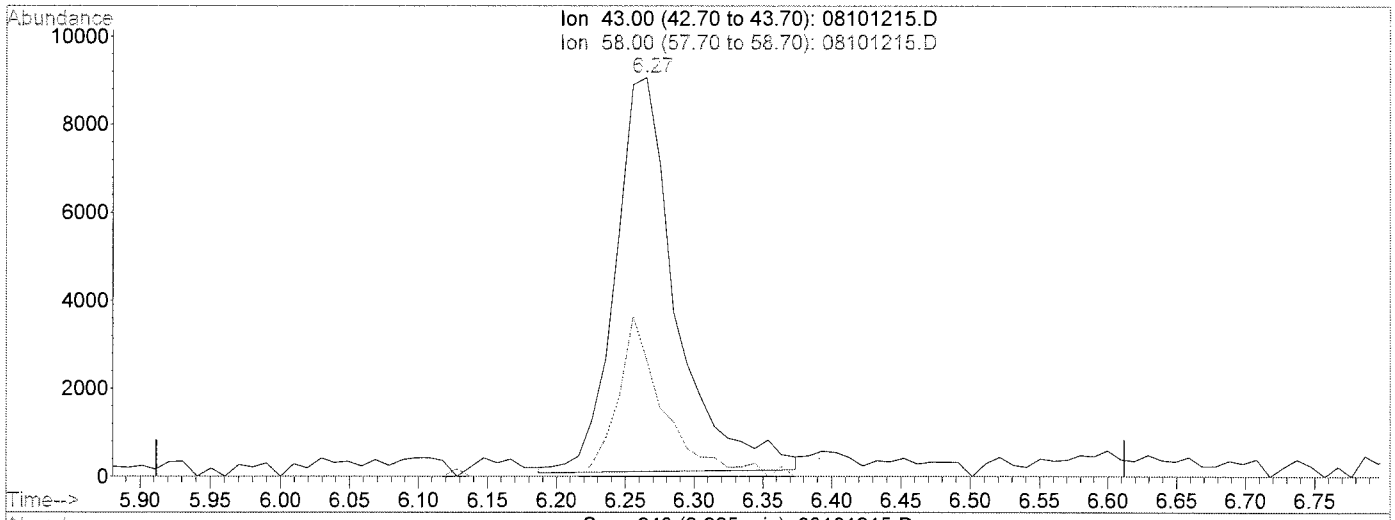
A

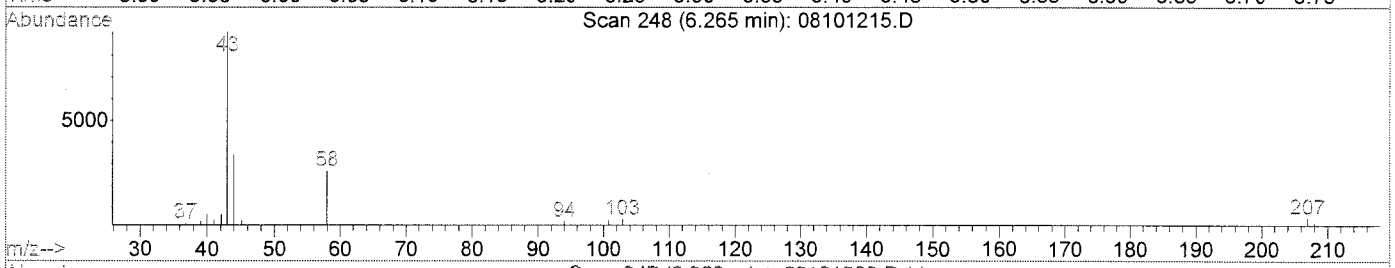
MM 8/13/12

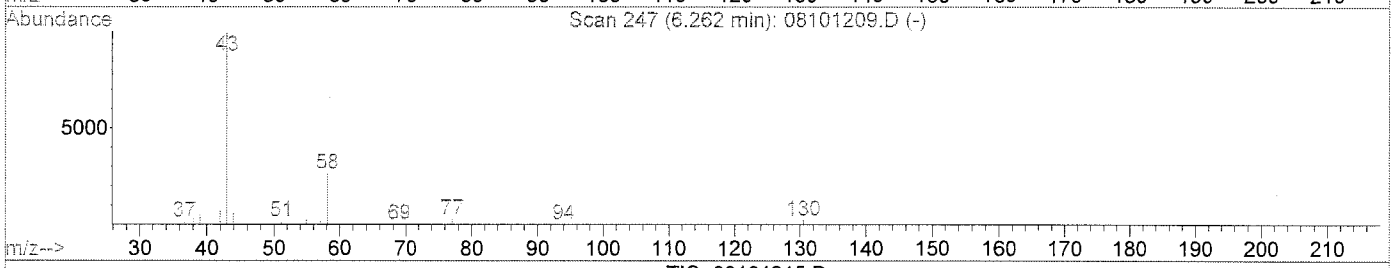
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(12) Acetone (T)

6.27min 30.06ug/L

response 27530

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.08
0.00	0.00	0.00
0.00	0.00	0.00

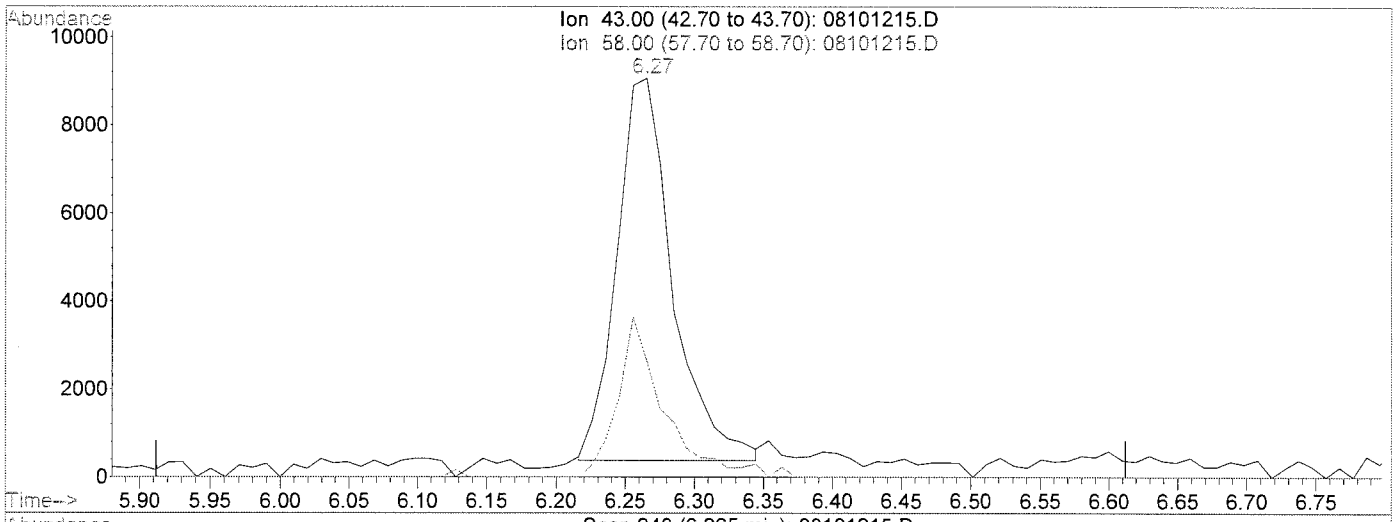
8/13/12

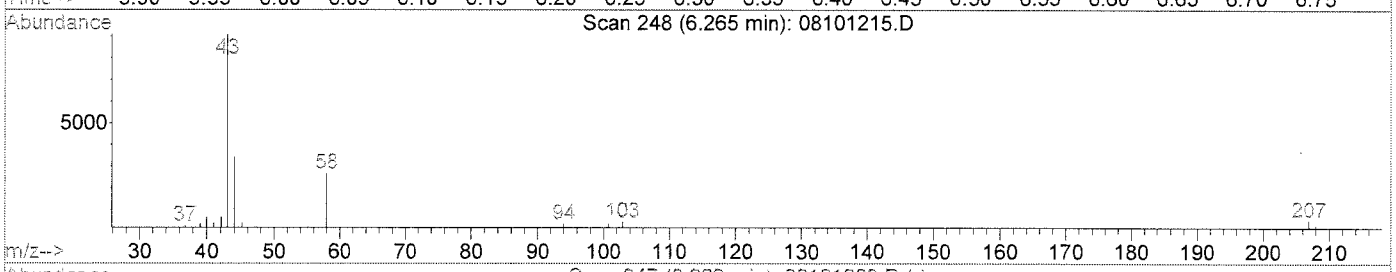
MNM 8/13/12

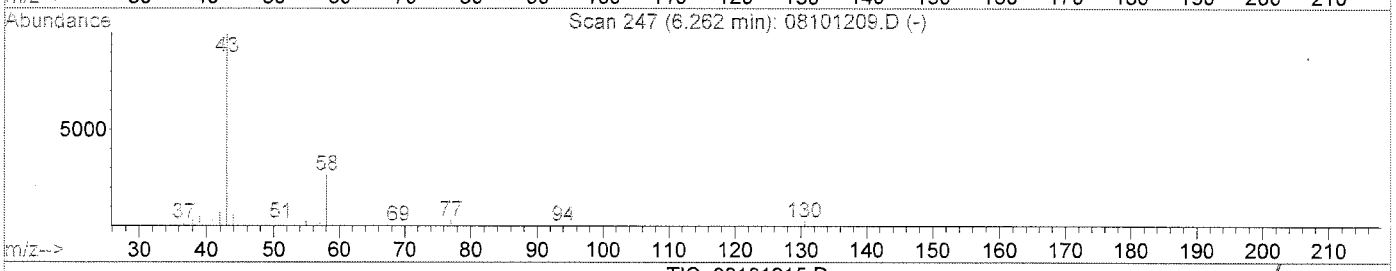
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(12) Acetone (T)

6.27min 26.55ug/L m

response 24311

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.19
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	44222	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	217542	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	306655	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.29	117	216631	25.00 ug/L	0.01
63) 1,4-Dichlorobenzene-d4	18.78	152	92262	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	96692	25.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.64%	
48) Toluene-d8	13.33	98	298127	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	
62) 4-Bromofluorobenzene	16.96	95	87439	26.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.48%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	7175m	300.95 ug/L	
3) tert-Butanol (TBA)	6.84	59	39654	153.29 ug/L	97
5) Dichlorodifluoromethane	4.12	85	160463	20.10 ug/L	98
6) Chloromethane	4.36	50	187967	24.20 ug/L	99
7) Vinyl Chloride	4.64	62	178677	25.13 ug/L	97
8) 1,3-Butadiene	4.79	54	146211	38.03 ug/L	97
9) Bromomethane	5.19	94	107095	24.67 ug/L	99
10) Chloroethane	5.38	64	87529	24.83 ug/L	99
11) Trichlorofluoromethane	6.12	101	162229	25.82 ug/L	98
12) Acetone	6.27	43	24311m	26.55 ug/L	
13) Iodomethane	6.87	142	194254	26.45 ug/L	97
14) 1,1-Dichloroethene	6.82	96	101788	23.27 ug/L	96
15) Methylene Chloride	7.00	84	92664	23.80 ug/L	97
16) Freon 113	7.07	101	110574	24.41 ug/L	98
17) Carbon disulfide	7.31	76	372407	26.18 ug/L	99
18) trans-1,2-Dichloroethene	7.87	96	121167	23.89 ug/L	98
19) MTBE	8.01	73	168955	23.56 ug/L	98
20) 1,1-Dichloroethane	8.18	63	187773	23.84 ug/L	99
21) Vinyl Acetate	8.35	43	157700	28.25 ug/L	99
22) n-Hexane	8.69	86	28024	22.51 ug/L	86
23) 2-Butanone (MEK)	8.73	72	7871	25.12 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.74	45	315525	23.73 ug/L #	64
25) cis-1,2-Dichloroethene	8.92	96	114002	24.69 ug/L	99
26) Bromochloromethane	9.13	128	43509	23.74 ug/L #	85
27) Chloroform	9.18	83	161542	23.45 ug/L #	95
28) 2,2-Dichloropropane	9.29	77	123852	23.74 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	213089	22.20 ug/L	100
31) Tetrahydrofuran	9.61	72	6902	24.22 ug/L	87
32) 1,2-Dichloroethane	10.02	62	84103	25.30 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	140057	24.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	186435	24.10 ug/L	99
36) 1,1-Dichloropropene	10.38	75	156952	23.93 ug/L	96
37) Carbon Tetrachloride	10.61	117	125008	24.31 ug/L	98
38) Benzene	10.67	78	388326	24.82 ug/L	99
39) Dibromomethane	11.40	93	46149	24.98 ug/L	98
40) 1,2-Dichloropropane	11.44	63	87576	23.49 ug/L	95

(#) = qualifier out of range (m) = manual integration

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	104225	23.76 ug/L	96
42) Bromodichloromethane	11.56	83	107842	25.13 ug/L	99
43) 2-Chlorovinylethylether	12.10	63	35712	25.34 ug/L	98
44) cis-1,3-Dichloropropene	12.39	75	125892	25.16 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	60317	26.85 ug/L	100
46) trans-1,3-Dichloropropene	12.96	75	96087	25.25 ug/L	97
47) 1,1,2-Trichloroethane	13.17	97	56305	25.95 ug/L	97
49) Toluene	13.43	92	221555	24.90 ug/L	99
51) 1,3-Dichloropropane	13.49	76	97702	25.40 ug/L	99
52) 2-Hexanone	13.69	43	43171	26.85 ug/L	98
53) Dibromochloromethane	13.86	129	68720	24.64 ug/L	96
54) 1,2-Dibromoethane	14.19	107	58393	24.98 ug/L	99
55) Tetrachloroethene	14.42	164	86251	22.60 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.23	131	71024	23.23 ug/L	93
57) Chlorobenzene	15.32	112	209307	23.54 ug/L	97
58) Ethylbenzene	15.59	91	389353	25.07 ug/L	99
59) m,p-Xylenes	15.85	106	143302	24.18 ug/L	96
60) Styrene	16.30	104	196407	24.75 ug/L	98
61) o-Xylene	16.40	106	129466	23.64 ug/L	96
64) Bromoform	16.02	173	40418	25.45 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.40	83	66349	26.77 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	15388	25.76 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	13110	21.70 ug/L	95
68) Isopropylbenzene	16.90	105	361912	26.26 ug/L	99
69) Bromobenzene	17.25	156	81404	24.25 ug/L	93
70) n-Propylbenzene	17.51	91	436616	24.96 ug/L	98
71) 2-Chlorotoluene	17.65	91	231960	24.53 ug/L	98
72) 4-Chlorotoluene	17.75	91	221379	23.93 ug/L	99
73) 1,3,5-Trimethylbenzene	17.92	105	258127	24.02 ug/L	99
74) tert-Butylbenzene	18.31	119	237760	24.77 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	248923	24.49 ug/L	100
76) sec-Butylbenzene	18.62	105	375741	24.19 ug/L	99
77) 1,3-Dichlorobenzene	18.73	146	147956	24.21 ug/L	97
78) 1,4-Dichlorobenzene	18.82	146	139025	23.21 ug/L	99
79) p-Isopropyltoluene	18.87	119	287165	24.67 ug/L	98
80) 1,2-Dichlorobenzene	19.28	146	118825	23.88 ug/L	98
81) n-Butylbenzene	19.40	91	283846	25.43 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.87	75	7617	30.65 ug/L	96
83) 1,2,4-Trichlorobenzene	21.51	180	70757	26.52 ug/L	99
84) Napthalene	21.84	128	123624	28.97 ug/L	99
85) Hexachlorobutadiene	21.90	225	49225	26.88 ug/L	98
86) 1,2,3-Trichlorobenzene	22.09	180	58513	27.16 ug/L	98

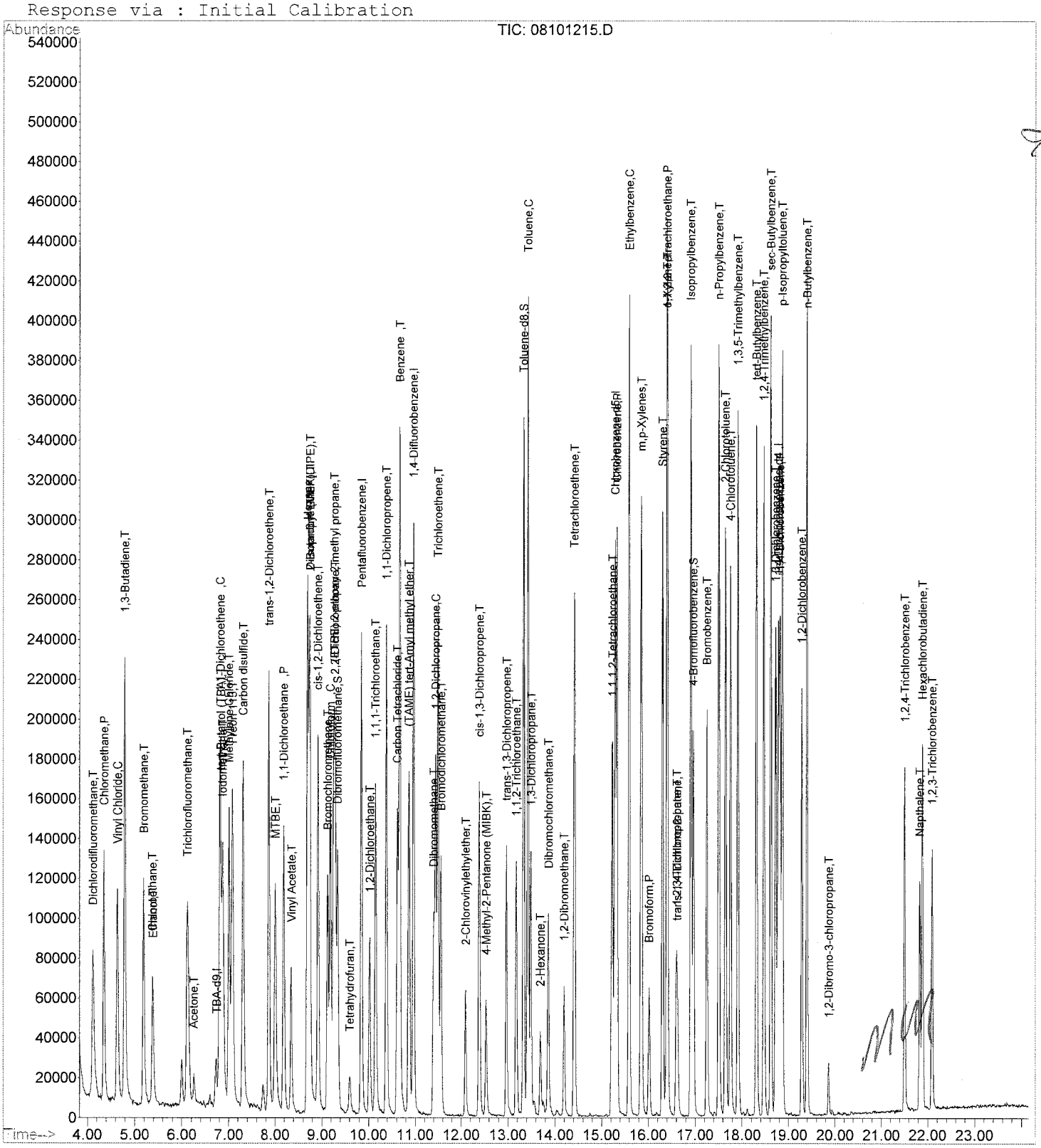
MNM

(#) = qualifier out of range (m) = manual integration
08101215.D 081012.M Mon Aug 13 05:30:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Calibration Status Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D
2	1.0	10	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D
3	2.0	20	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D
4	5.0	50	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D
5	10.0	100	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D
6	25.0	250	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D
7	50.0	500	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D
8	100.	1000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D
9	200.	2000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D

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#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Aug 10 12:51 2012	Aug 10 09:42 2012	10 Aug 2012 8:03 am
2	1.0	Aug 10 12:51 2012	Aug 10 09:44 2012	10 Aug 2012 8:36 am
3	2.0	Aug 10 12:51 2012	Aug 10 09:46 2012	10 Aug 2012 9:08 am
4	5.0	Aug 10 12:51 2012	Aug 10 12:39 2012	10 Aug 2012 9:41 am
5	10.0	Aug 10 12:51 2012	Aug 10 12:40 2012	10 Aug 2012 10:14 am
6	25.0	Aug 10 12:51 2012	Aug 10 12:41 2012	10 Aug 2012 10:46 am
7	50.0	Aug 10 12:51 2012	Aug 10 12:43 2012	10 Aug 2012 11:19 am
8	100.	Aug 10 12:51 2012	Aug 10 12:45 2012	10 Aug 2012 11:51 am
9	200.	Aug 10 12:52 2012	Aug 10 12:49 2012	10 Aug 2012 12:24 pm

081012.M Mon Aug 13 06:02:17 2012

MM 8/13/12

Compound List Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
Total Cpnds : 86

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	6.72	1.000	A	0	A	B
2	T	Ethanol	45	5.40	0.803	A	1	A	B
3	T	tert-Butanol (TBA)	59	6.83	1.016	A	1	A	B
4	I	Pentafluorobenzene	168	9.84	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.11	0.417	A	1	A	B
6	P	Chloromethane	50	4.35	0.442	A	1	A	B
7	C	Vinyl Chloride	62	4.63	0.470	A	1	A	B
8	T	1,3-Butadiene	54	4.79	0.486	A	2	A	B
9	T	Bromomethane	94	5.19	0.527	A	1	A	L
10	T	Chloroethane	64	5.38	0.546	A	2	A	B
11	T	Trichlorofluoromethane	101	6.11	0.621	A	1	A	B
12	T	Acetone	43	6.26	0.636	A	1	A	B
13	T	Iodomethane	142	6.86	0.697	A	2	A	B
14	C	1,1-Dichloroethene	96	6.81	0.692	A	2	A	B
15	T	Methylene Chloride	84	7.00	0.711	A	2	A	B
16	T	Freon 113	101	7.07	0.718	A	2	A	B
17	T	Carbon disulfide	76	7.29	0.741	A	2	A	B
18	T	trans-1,2-Dichloroethene	96	7.87	0.799	A	2	A	B
19	T	MTBE	73	8.00	0.813	A	1	A	B
20	P	1,1-Dichloroethane	63	8.18	0.831	A	2	A	B
21	T	Vinyl Acetate	43	8.34	0.847	A	1	A	B
22		n-Hexane	86	8.69	0.883	A	1	A	B
23	T	2-Butanone (MEK)	72	8.73	0.887	A	2	A	B
24	T	Diisopropyl Ether (DIPE)	45	8.74	0.888	A	3	A	B
25	T	cis-1,2-Dichloroethene	96	8.91	0.905	A	2	A	B
26	T	Bromochloromethane	128	9.11	0.926	A	2	A	B
27	C	Chloroform	83	9.17	0.932	A	2	A	B
28	T	2,2-Dichloropropane	77	9.27	0.942	A	2	A	B
29	T	(ETBE) 2-ethoxy-2-methyl propa	59	9.24	0.939	A	2	A	B
30	S	Dibromofluoromethane	113	9.33	0.948	A	0	A	B
31	T	Tetrahydrofuran	72	9.60	0.975	A	2	A	B
32	T	1,2-Dichloroethane	62	10.01	1.017	A	2	A	B
33	T	1,1,1-Trichloroethane	97	10.14	1.030	A	2	A	B
34	T	(TAME) tert-Amyl methyl ether	73	10.86	1.103	A	3	A	B
35	I	1,4-Difluorobenzene	114	10.95	1.000	A	0	A	B
36	T	1,1-Dichloropropene	75	10.37	0.947	A	2	A	B
37	T	Carbon Tetrachloride	117	10.61	0.969	A	2	A	B
38	T	Benzene	78	10.66	0.973	A	1	A	B
39	T	Dibromomethane	93	11.39	1.040	A	2	A	B
40	C	1,2-Dichloropropane	63	11.44	1.044	A	2	A	B
41	T	Trichloroethene	95	11.48	1.048	A	3	A	B
42	T	Bromodichloromethane	83	11.55	1.055	A	2	A	B
43	T	2-Chlorovinylethylether	63	12.08	1.103	A	2	A	B
44	T	cis-1,3-Dichloropropene	75	12.39	1.131	A	2	A	B
45	T	4-Methyl-2-Pentanone (MIBK)	43	12.53	1.144	A	1	A	B
46	T	trans-1,3-Dichloropropene	75	12.95	1.182	A	2	A	B
47	T	1,1,2-Trichloroethane	97	13.17	1.202	A	2	A	B
48	S	Toluene-d8	98	13.32	1.216	A	0	A	B
49	C	Toluene	92	13.42	1.225	A	2	A	B
50	I	Chlorobenzene-d5	117	15.27	1.000	A	0	A	B
51	T	1,3-Dichloropropane	76	13.49	0.883	A	1	A	B
52	T	2-Hexanone	43	13.69	0.896	A	2	A	B
53	T	Dibromochloromethane	129	13.86	0.907	A	1	A	B
54	T	1,2-Dibromoethane	107	14.18	0.929	A	1	A	B
55	T	Tetrachloroethene	164	14.41	0.943	A	2	A	B
56	T	1,1,1,2-Tetrachloroethane	131	15.21	0.996	A	2	A	B
57	P	Chlorobenzene	112	15.32	1.003	A	2	A	B
58	C	Ethylbenzene	91	15.59	1.021	A	1	A	B
59	T	m,p-Xylenes	106	15.84	1.037	A	2	A	B

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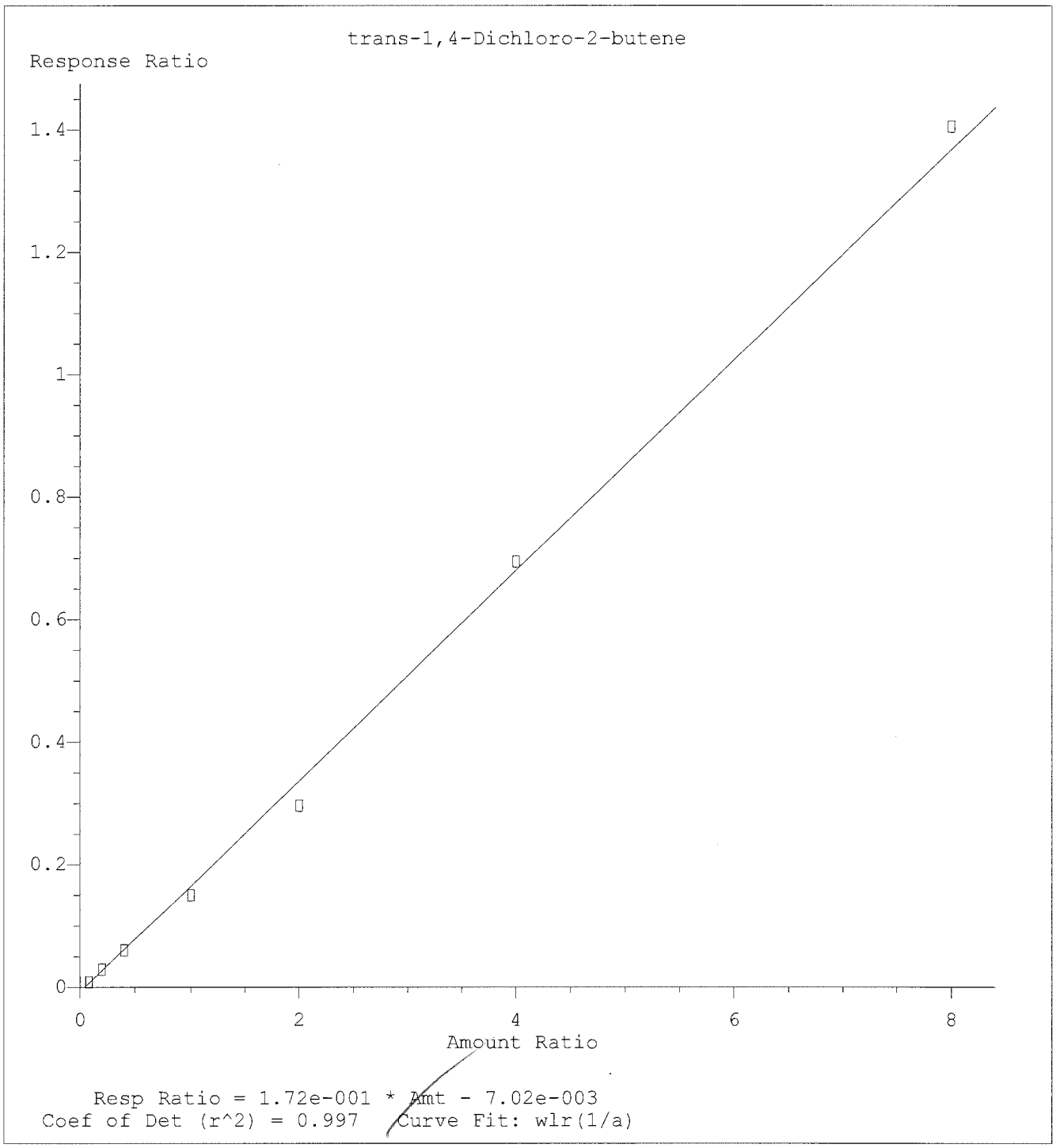
60	T	Styrene	104	16.29	1.067	A	3	A	B
61	T	o-Xylene	106	16.39	1.073	A	2	A	B
62	S	4-Bromofluorobenzene	95	16.95	1.110	A	2	A	B
63	I	1,4-Dichlorobenzene-d4	152	18.77	1.000	A	2	A	B
64	P	Bromoform	173	16.01	0.853	A	1	A	B
65	P	1,1,2,2-Tetrachloroethane	83	16.39	0.873	A	2	A	B
66	T	1,2,3-Trichloropropane	110	16.59	0.884	A	2	A	R
67	T	trans-1,4-Dichloro-2-butene	53	16.62	0.885	L	2	A	B
68	T	Isopropylbenzene	105	16.89	0.900	A	1	A	B
69	T	Bromobenzene	156	17.25	0.919	A	2	A	B
70	T	n-Propylbenzene	91	17.50	0.932	A	1	A	B
71	T	2-Chlorotoluene	91	17.64	0.940	A	1	A	R
72	T	4-Chlorotoluene	91	17.75	0.946	A	1	A	R
73	T	1,3,5-Trimethylbenzene	105	17.91	0.954	A	1	A	B
74	T	tert-Butylbenzene	119	18.30	0.975	A	2	A	B
75	T	1,2,4-Trimethylbenzene	105	18.46	0.983	A	1	A	B
76	T	sec-Butylbenzene	105	18.61	0.991	A	1	A	B
77	T	1,3-Dichlorobenzene	146	18.71	0.997	A	2	A	R
78	T	1,4-Dichlorobenzene	146	18.81	1.002	A	2	A	R
79	T	p-Isopropyltoluene	119	18.85	1.004	A	2	A	B
80	T	1,2-Dichlorobenzene	146	19.28	1.027	A	2	A	B
81	T	n-Butylbenzene	91	19.39	1.033	A	2	A	B
82	T	1,2-Dibromo-3-chloropropane	75	19.86	1.058	Q	2	A	B
83	T	1,2,4-Trichlorobenzene	180	21.51	1.146	A	2	A	B
84	T	Napthalene	128	21.82	1.162	A	1	A	B
85	T	Hexachlorobutadiene	225	21.88	1.166	Q	2	A	B
86	T	1,2,3-Trichlorobenzene	180	22.09	1.177	Q	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

081012.M Mon Aug 13 06:02:11 2012

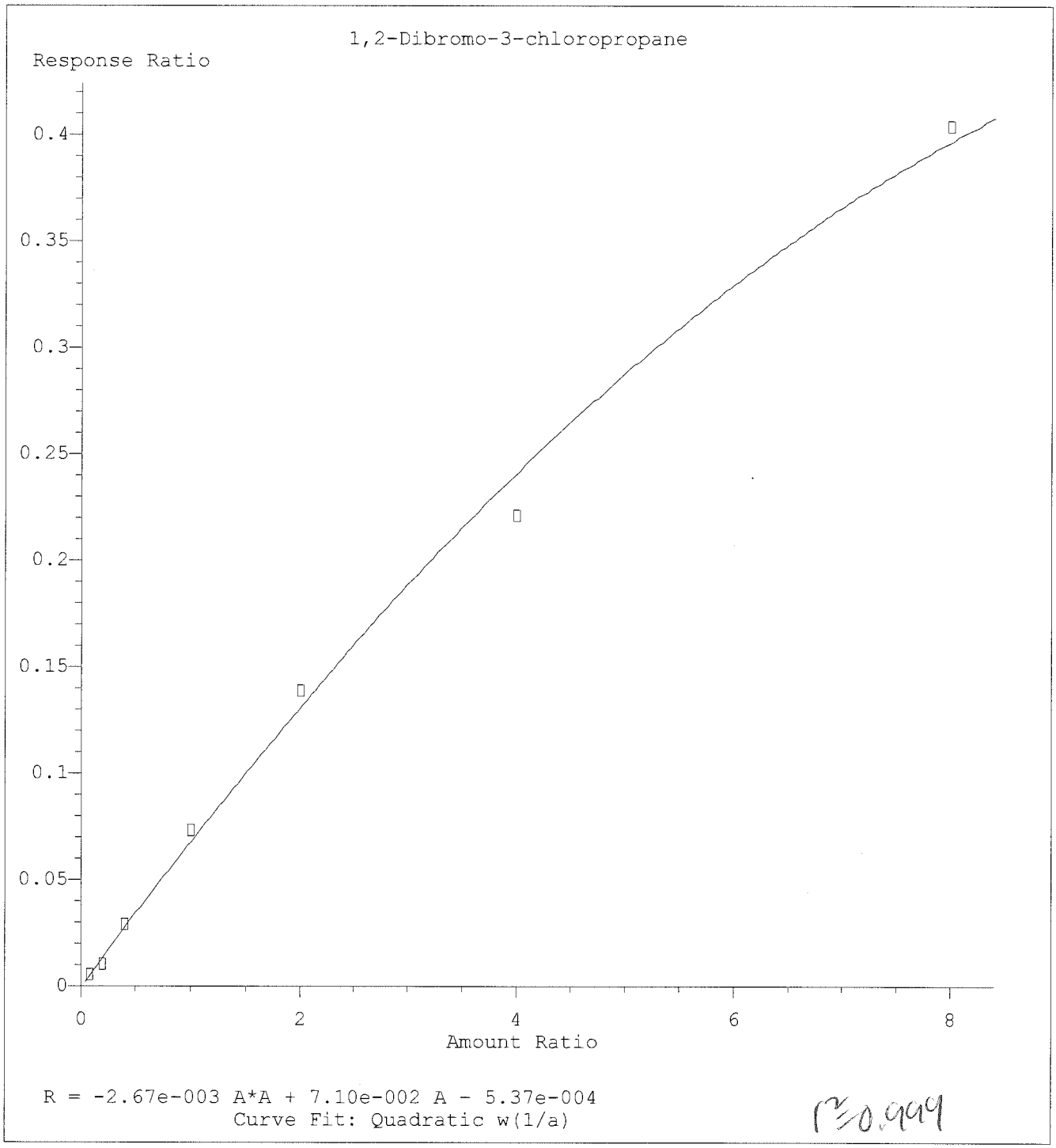
MM



Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

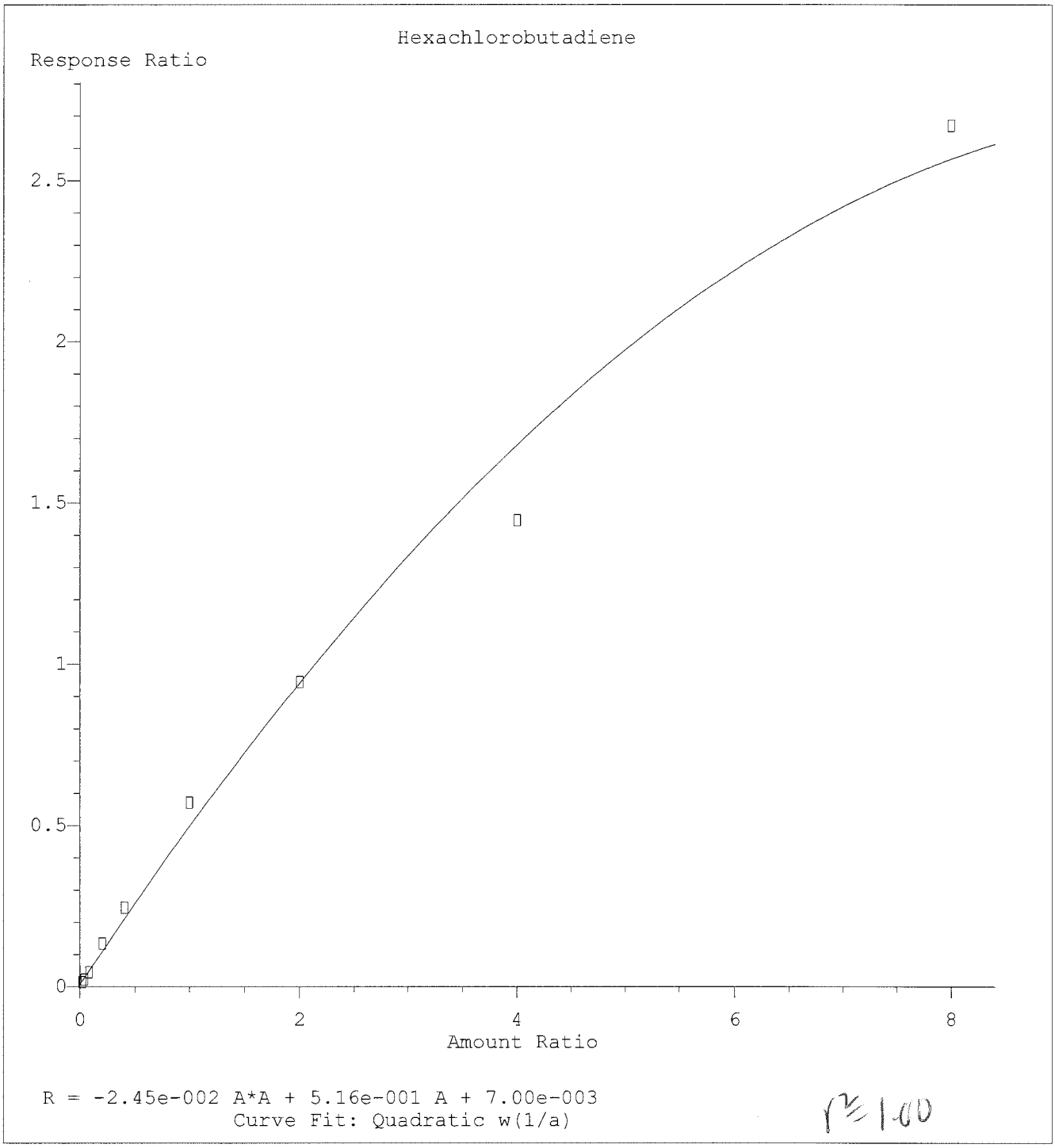
MM



8/10/12

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

MM

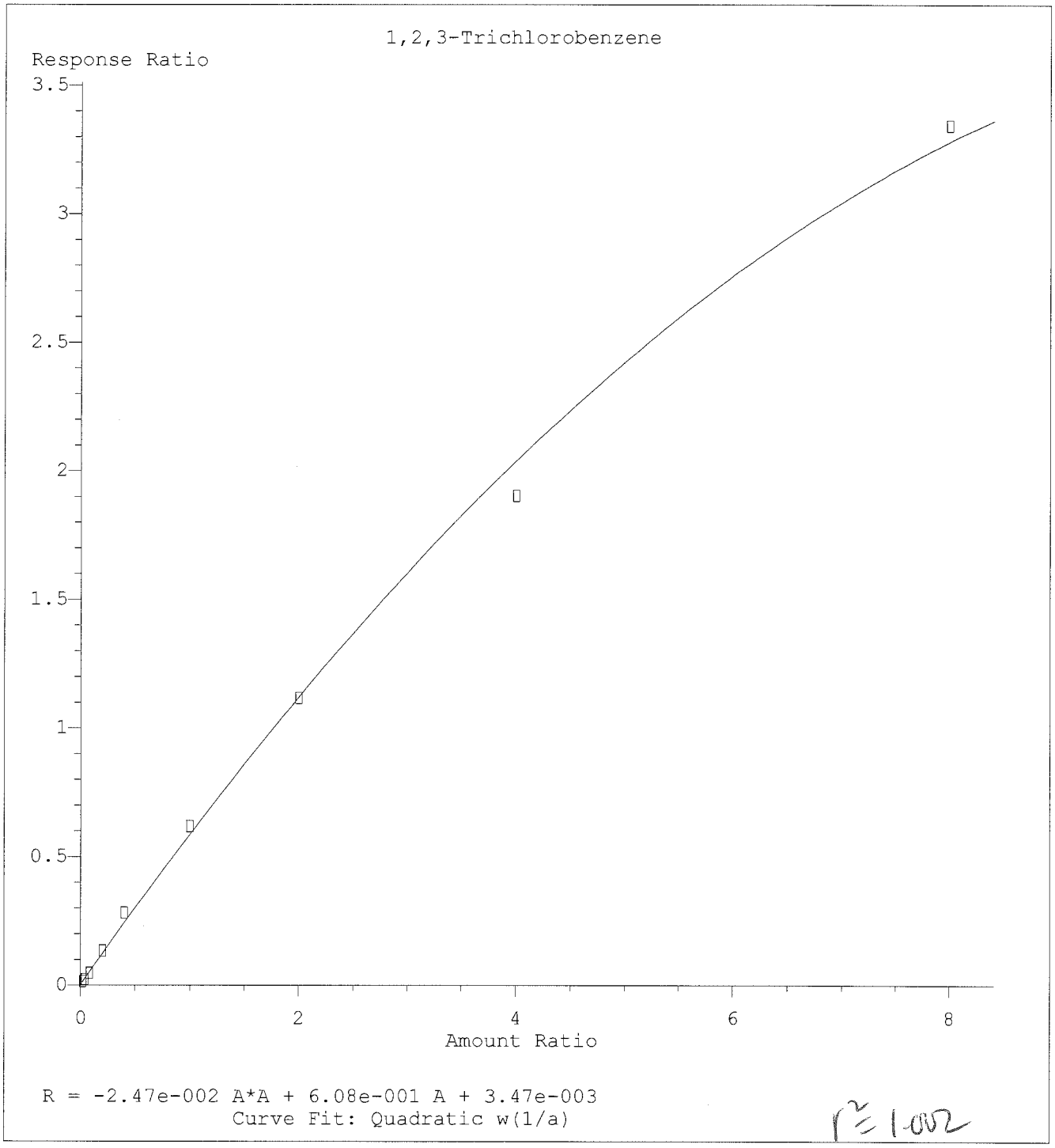


$r^2 = 1.00$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM



R = -2.47e-002 A*A + 6.08e-001 A + 3.47e-003
Curve Fit: Quadratic w(1/a)

$r^2 = 1.002$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

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MM

Untitled

RESPONSE FACTOR REPORT

Operator mm
Standard Lot
Reviewed by
GC/MS #2

8/13/12

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

Calibration File
0.5 =08101204.D 1.0 =08101205.D 2.0 =08101206.D 5.0 =08101207.D
25.0 =08101209.D 50.0 =08101210.D 100. =08101211.D 200. =08101212.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD
I	TBA-d9	ISTD										
T	Ethanol					0.104	0.102	0.095	0.115	0.124	0.108	10.55
T	tert-Butanol (TBA)			1.254	1.190	1.109	1.197	1.060	1.124	1.255	1.170	6.38
I	Pentafluorobenzene	ISTD										
T	Dichlorodifluoromethane	0.967	0.932	0.854	0.978	0.935	0.924	0.927	0.885	0.855	0.917	4.83
P	Chloromethane	0.952	0.990	0.857	0.955	0.932	0.885	0.867	0.817	0.778	0.893	7.84
C	Vinyl Chloride	0.867	0.839	0.807	0.954	0.891	0.833	0.805	0.733	0.625	0.817	11.58
T	1,3-Butadiene		0.422	0.420	0.486	0.477	0.452	0.443	0.424	0.410	0.442	6.35
T	Bromomethane		0.511	0.418	0.581	0.544	0.487	0.498	0.482	0.471	0.499	9.78
T	Chloroethane	0.369	0.390	0.399	0.454	0.420	0.409	0.421	0.405	0.380	0.405	6.21
T	Trichlorofluoromethane	0.712	0.711	0.666	0.793	0.770	0.724	0.738	0.700	0.686	0.722	5.52
T	Acetone				0.100	0.108	0.117	0.105	0.114	0.089	0.105	9.67
T	Iodomethane	0.819	0.892	0.854	0.856	0.875	0.831	0.837	0.827	0.804	0.844	3.31
C	1,1-Dichloroethene	0.554	0.578	0.515	0.506	0.504	0.470	0.474	0.467	0.456	0.503	8.26
T	Methylene Chloride		0.495	0.472	0.450	0.456	0.428	0.436	0.432	0.412	0.448	5.90
T	Freon 113	0.549	0.515	0.522	0.572	0.539	0.520	0.506	0.485	0.478	0.521	5.71
T	Carbon disulfide	1.636	1.540	1.521	1.747	1.729	1.653	1.681	1.612	1.593	1.635	4.74
T	trans-1,2-Dichloroethene	0.664	0.593	0.568	0.599	0.600	0.558	0.568	0.548	0.547	0.583	6.28
T	MTBE	0.792	0.864	0.815	0.830	0.848	0.810	0.809	0.838	0.811	0.824	2.75
P	1,1-Dichloroethane	0.878	0.920	0.935	0.973	0.935	0.888	0.892	0.866	0.860	0.905	4.17
T	Vinyl Acetate			0.588	0.619	0.644	0.637	0.647	0.685	0.672	0.642	5.01
	n-Hexane	0.130	0.150	0.145	0.166	0.144	0.137	0.144	0.136	0.136	0.143	7.34
T	2-Butanone (MEK)			0.034	0.035	0.037	0.039	0.033	0.039	0.035	0.036#	6.30
T	Diisopropyl Ether (DIPE)	1.507	1.597	1.590	1.516	1.596	1.473	1.494	1.506	1.474	1.528	3.38
T	cis-1,2-Dichloroethene	0.541	0.563	0.501	0.539	0.557	0.512	0.523	0.521	0.518	0.531	3.88
T	Bromochloromethane	0.209	0.186	0.209	0.204	0.223	0.208	0.219	0.217	0.223	0.211	5.56
C	Chloroform	0.770	0.736	0.805	0.849	0.829	0.794	0.780	0.775	0.788	0.792	4.20
T	2,2-Dichloropropane		0.652	0.634	0.632	0.623	0.582	0.580	0.548	0.545	0.599	6.85
T	(ETBE) 2-ethoxy-2-methyl propane	1.140	1.114	1.142	1.077	1.144	1.059	1.074	1.104	1.074	1.103	3.03
S	Dibromofluoromethane	0.407	0.452	0.483	0.436	0.454	0.430	0.409	0.424	0.440	0.437	5.43
T	Tetrahydrofuran			0.042	0.029	0.034	0.029	0.030	0.034	0.033	0.033#	13.51

mm 8/13/12

T	1,2-Dichloroethane	0.344	0.406	0.417	0.377	0.387	0.374	0.380	0.375	0.378	0.382	5.41
T	1,1,1-Trichloroethane	0.672	0.605	0.642	0.692	0.711	0.677	0.662	0.648	0.661	0.663	4.59
T	(TAME) tert-Amyl methyl ether	0.991	0.860	0.877	0.867	0.863	0.859	0.873	0.935	0.878	0.889	5.02
I	1,4-Difluorobenzene	----------ISTD----------										
T	1,1-Dichloropropene	0.537	0.536	0.511	0.571	0.596	0.525	0.534	0.489	0.513	0.535	6.02
T	Carbon Tetrachloride	0.442	0.388	0.375	0.436	0.445	0.420	0.426	0.409	0.431	0.419	5.73
T	Benzene	1.344	1.239	1.242	1.286	1.326	1.272	1.269	1.246	1.256	1.276	2.93
T	Dibromomethane	0.136	0.148	0.145	0.150	0.158	0.149	0.154	0.156	0.158	0.151	4.73
C	1,2-Dichloropropane	0.308	0.308	0.309	0.302	0.316	0.302	0.296	0.295	0.299	0.304	2.22
T	Trichloroethene	0.354	0.325	0.374	0.387	0.369	0.361	0.355	0.340	0.353	0.358	5.09
T	Bromodichloromethane	0.300	0.310	0.334	0.367	0.373	0.360	0.364	0.372	0.370	0.350	8.06
T	2-Chlorovinylethylether	—	—	0.108	0.097	0.121	0.113	0.119	0.124	0.123	0.115	8.46
T	cis-1,3-Dichloropropene	0.377	0.366	0.384	0.405	0.428	0.422	0.430	0.431	0.427	0.408	6.28
T	4-Methyl-2-Pentanone (MIBK)	—	0.205	0.187	0.169	0.187	0.171	0.175	0.191	0.180	0.183	6.44
T	trans-1,3-Dichloropropene	0.298	0.299	0.278	0.298	0.318	0.316	0.319	0.331	0.335	0.310	5.93
T	1,1,2-Trichloroethane	0.119	0.179	0.179	0.181	0.190	0.185	0.185	0.186	0.188	0.177	12.54
S	Toluene-d8	1.049	0.911	1.086	1.023	1.040	0.992	0.921	0.911	0.952	0.987	6.69
C	Toluene	0.753	0.660	0.734	0.766	0.757	0.722	0.733	0.699	0.707	0.726	4.58
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.365	0.458	0.407	0.467	0.465	0.455	0.453	0.474	0.451	0.444	7.94
T	2-Hexanone	—	—	0.160	0.174	0.182	0.194	0.187	0.216	0.186	0.186	9.32
T	Dibromochloromethane	0.248	0.295	0.288	0.317	0.341	0.337	0.341	0.363	0.365	0.322	12.00
T	1,2-Dibromoethane	0.237	0.251	0.276	0.267	0.288	0.279	0.264	0.283	0.283	0.270	6.27
T	Tetrachloroethene	0.467	0.429	0.415	0.472	0.462	0.459	0.420	0.415	0.425	0.440	5.44
T	1,1,1,2-Tetrachloroethane	0.370	0.327	0.329	0.360	0.373	0.376	0.347	0.341	0.353	0.353	5.20
P	Chlorobenzene	1.007	0.931	1.012	1.075	1.108	1.054	1.029	1.026	0.995	1.026	4.95
C	Ethylbenzene	1.805	1.800	1.618	1.841	1.912	1.875	1.810	1.764	1.708	1.793	4.93
T	m,p-Xylenes	0.655	0.637	0.597	0.704	0.752	0.717	0.702	0.700	0.693	0.684	6.81
T	Styrene	0.888	0.824	0.839	0.876	0.985	0.994	0.955	0.947	0.936	0.916	6.72
T	o-Xylene	0.692	0.604	0.544	0.642	0.700	0.653	0.648	0.597	0.609	0.632	7.75
S	4-Bromofluorobenzene	0.398	0.374	0.403	0.382	0.430	0.384	0.356	0.378	0.371	0.386	5.51
I	1,4-Dichlorobenzene-d4	----------ISTD----------										
P	Bromoform	0.366	0.381	0.372	0.423	0.417	0.418	0.459	0.479	0.557	0.430	14.13
P	1,1,2,2-Tetrachloroethane	0.682	0.648	0.661	0.657	0.760	0.644	0.661	0.660	0.671	0.672	5.23
T	1,2,3-Trichloropropane	—	0.152	0.152	0.170	0.166	0.154	0.160	0.170	0.170	0.162	5.05
T	trans-1,4-Dichloro-2-butene	—	—	0.106	0.144	0.151	0.150	0.148	0.174	0.176	0.150	15.43
T	Isopropylbenzene	3.964	3.555	3.613	3.872	4.007	3.584	3.622	3.547	3.841	3.734	4.96
T	Bromobenzene	0.876	0.806	0.904	0.900	0.955	0.901	0.900	0.927	1.019	0.910	6.30
T	n-Propylbenzene	5.063	4.533	4.406	4.869	5.070	4.617	4.641	4.603	4.857	4.740	4.96
T	2-Chlorotoluene	2.658	2.497	2.645	2.616	2.737	2.424	2.441	2.453	2.592	2.563	4.37
T	4-Chlorotoluene	2.587	2.456	2.405	2.628	2.644	2.367	2.404	2.451	2.614	2.506	4.41
T	1,3,5-Trimethylbenzene	3.001	2.763	2.877	2.992	3.233	2.889	2.859	2.688	2.905	2.912	5.36
T	tert-Butylbenzene	2.848	2.500	2.568	2.674	2.877	2.581	2.543	2.359	2.456	2.601	6.62
T	1,2,4-Trimethylbenzene	2.866	2.631	2.763	2.886	2.995	2.688	2.699	2.561	2.702	2.755	4.98
T	sec-Butylbenzene	4.618	3.925	4.247	4.555	4.681	4.210	4.056	3.714	3.871	4.209	8.29
T	1,3-Dichlorobenzene	1.830	1.585	1.564	1.736	1.809	1.606	1.641	1.522	1.610	1.656	6.63
T	1,4-Dichlorobenzene	1.863	1.547	1.603	1.623	1.731	1.562	1.586	1.530	1.565	1.623	6.63

Untitled

T	p-Isopropyltoluene	3.147	3.133	3.086	3.325	3.518	3.188	3.136	2.869	2.980	3.154	5.94
T	1,2-Dichlorobenzene	1.555	1.360	1.332	1.386	1.456	1.330	1.342	1.172	1.199	1.348	8.70
T	n-Butylbenzene	3.068	2.923	2.932	3.235	3.424	3.092	3.023	2.758	2.761	3.024	7.11
T	1,2-Dibromo-3-chloropropane	—	—	0.070	0.053	0.073	0.073	0.069	0.055	0.051	0.063#	15.93
T	1,2,4-Trichlorobenzene	0.834	0.622	0.721	0.802	0.873	0.763	0.720	0.591	0.578	0.723	14.76
T	Napthalene	1.328	1.259	1.077	1.222	1.370	1.214	1.090	0.962	0.886	1.156	14.17
T	Hexachlorobutadiene	0.765	0.578	0.568	0.673	0.613	0.571	0.472	0.362	0.334	0.549	25.40
T	1,2,3-Trichlorobenzene	0.768	0.594	0.601	0.674	0.707	0.618	0.559	0.476	0.418	0.602	18.17

(#) = Out of Range

081012.M Mon Aug 13 06:02:31 2012

mm

ANALYTICAL DATA

METHOD: 8260

DATE: 09/13/12, 09/14/12

WORK ORDER: PVI0635

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091312

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09131201.d	1.	TUNE		13 Sep 2012 05:13
2	2	09131202.d	1.	25 PPB CCV		13 Sep 2012 05:32
3	3	09131203.d	1.	12I0409-BS1		13 Sep 2012 06:07
4	4	09131204.d	1.	12I0409-BSD1		13 Sep 2012 06:40
5	5	09131205.d	1.	12I0409-BLK1		13 Sep 2012 07:13
6	6	09131206.d	1.	PVI0575-11		13 Sep 2012 07:45
7	7	09131207.d	1.	PVI0410-05RE1	10X	13 Sep 2012 08:18
8	8	09131208.d	1.	PVI0525-04RE1	10X	13 Sep 2012 08:51
9	9	09131209.d	1.	PVI0446-09		13 Sep 2012 09:24
10	10	09131210.d	1.	PVI0446-10		13 Sep 2012 09:57
11	11	09131211.d	1.	PVI0575-03		13 Sep 2012 10:29
12	12	09131212.d	1.	PVI0575-04	SOURCE	13 Sep 2012 11:02
13	13	09131213.d	1.	PVI0575-05		13 Sep 2012 11:35
14	14	09131214.d	1.	PVI0575-06		13 Sep 2012 12:07
15	15	09131215.d	1.	PVI0575-07		13 Sep 2012 12:40
16	16	09131216.d	1.	PVI0575-08		13 Sep 2012 13:12
17	17	09131217.d	1.	PVI0575-09		13 Sep 2012 13:45
18	18	09131218.d	1.	PVI0575-10		13 Sep 2012 14:18
19	19	09131219.d	1.	PVI0575-01	10X	13 Sep 2012 14:50
20	20	09131220.d	1.	PVI0575-02	10X	13 Sep 2012 15:23
21	21	09131221.d	1.	12I0409-MS1		13 Sep 2012 15:55
22	22	09131222.d	1.	12I0409-MSD1		13 Sep 2012 16:28
23	1	09131223.d	1.	TUNE		13 Sep 2012 16:54
24	1	09131224.d	1.	TUNE		13 Sep 2012 17:04
25	2	09131225.d	1.	25 PPB CCV		13 Sep 2012 17:28
26	3	09131226.d	1.	12I0465-BS1		13 Sep 2012 18:02
27	4	09131227.d	1.	12I0465-BSD1		13 Sep 2012 18:34
28	5	09131228.d	1.	12I0465-BLK1		13 Sep 2012 19:09
29	6	09131229.d	1.	PVI0469-05@TB		13 Sep 2012 19:42
30	7	09131230.d	1.	PVI0446-12@TB		13 Sep 2012 20:15
31	8	09131231.d	1.	PVI0629-02@TB		13 Sep 2012 20:47
32	9	09131232.d	1.	PVI0635-01@TB		13 Sep 2012 21:20
33	10	09131233.d	1.	PVI0715-02@TB		13 Sep 2012 21:52
34	11	09131234.d	1.	PVI0635-02	SOURCE	13 Sep 2012 22:25
35	12	09131235.d	1.	12I0465-MS1		13 Sep 2012 22:58
36	13	09131236.d	1.	12I0465-MSD1		13 Sep 2012 23:30
37	14	09131237.d	1.	PVI0442-02		14 Sep 2012 00:03
38	15	09131238.d	1.	PVI0442-03		14 Sep 2012 00:35
39	16	09131239.d	1.	PVI0442-04		14 Sep 2012 01:08
40	17	09131240.d	1.	PVI0442-05		14 Sep 2012 01:41
41	18	09131241.d	1.	PVI0444-01		14 Sep 2012 02:13
42	19	09131242.d	1.	PVI0444-02		14 Sep 2012 02:46
43	20	09131243.d	1.	PVI0444-03		14 Sep 2012 03:18
44	21	09131244.d	1.	PVI0715-01		14 Sep 2012 03:51
45	22	09131245.d	1.	PVI0629-01	10X	14 Sep 2012 04:24
46	23	09131246.d	1.	PVI0746-01	100X	14 Sep 2012 04:56

9/14/12

9/14/12

*mm 9/13/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/13/12

QC BATCH # (s) : ~~1210410~~ *409 1210405

ANALYST: mm

SEQUENCE FILE: C:\GCMS2\DATA\ 091312.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09131201	Tune	2µl	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	12DB3CP, Hex↑
3	03	1210409-BS1	✓				
4	04	-BSD1	✓				
5	05	-BIK1	✓				
6	06	PV10575-11A	✓	✓			TB
7	07	0410-05BRET	1mL→10mL	✓			10x BX
8	08	0525-04BRET	1mL→10mL	✓			10x MEK
9	09	0446-09A	✓	✓			
10	10	-10A	✓	✓			
11	11	0575-03A	✓	✓			
12	12	-04A	✓	✓			Sulfur
13	13	-05A	✓	✓			
14	14	-06A	✓	✓			
15	15	-07A	✓	✓			
16	16	-08A	✓	✓			
17	17	-09A	✓	✓			
18	18	-10A	✓	✓			PRO 20x-MTBE
19	19	-01A	1mL→10mL	✓			10x odor
20	20	-02A	1mL→10mL	✓			10x odor
21	21	1210409-MS1	✓	✓			
22	22	-MSD1	✓	✓			
1	23	tune	2µl	NA	8260	NA	
1	24	tune	2µl				
3	25	25 ppb CCV	✓			H_2O	Hex↑
3	26	12I0405-BS1	✓				
4	27	-BSD1	✓				
5	28	-BIK1	✓				
6	29	PV10409-05A	✓	✓			TB
7	30	446-12A	✓	✓			TB

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05577 / 5606

CCV/CALIBRATION STD: PV05486 / 5431

Internal Std: 5519

IS/Surrogate/BFB: 5503 / 5230

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µl CAL STD + 5µl IS 10mL H_2O

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: mm 9/14/12

SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: 9/14/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 091312 QC BATCH # (s) : 12I0409 / 12I0410S

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 091312.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
8	091312 31	PVI0629-02A	✓	✓	8260	H_2O	TB
9	32	0635-01A	✓	✓			TB
10	33	0715-02A	✓	✓			TB
11	34	0635-02A	✓	✓			source
12	35	12I0465-MS1	✓	✓			
13	36	-MSD1	✓	✓			ⓓ.ll 091312
14	37	PVI0442-02F	✓	✓			-02F
15	38	03F	✓	✓			-03F
16	39	-04F	✓	✓			
17	40	-05F	✓	✓			
18	41	PVI0444-01A	✓	✓			
19	42	-02A	✓	✓			
20	43	-03A	✓	✓			
21	44	PVI0715-01D	✓	✓			
22	45	0629-01C	1mL → 10mL H_2O	✓			10X orange
23	46	0746-01A	100 mL → 10mL H_2O	7			100X WM, P4

ll 091312

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD:

Internal Std:

IS/Surrogate/BFB: see pg 102

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date: see pg 102

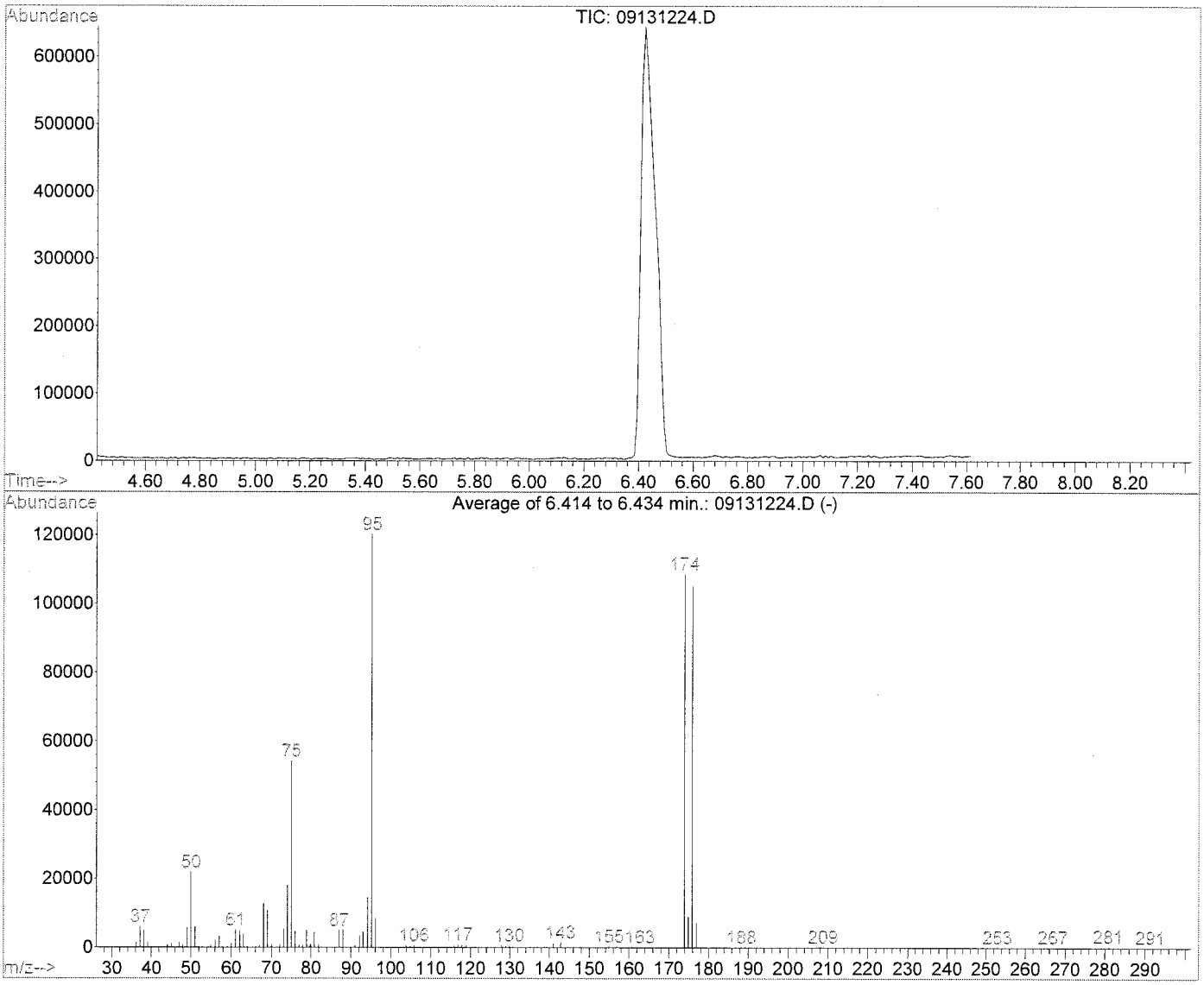
SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: 9/14/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131224.D Vial: 1
Acq On : 13 Sep 2012 5:04 pm Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration

9/14/12



Spectrum Information: Average of 6.414 to 6.434 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	21848	PASS
75	95	30	60	45.1	54211	PASS
95	95	100	100	100.0	120232	PASS
96	95	5	9	7.0	8429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.3	108581	PASS
175	174	5	9	8.2	8908	PASS
176	174	95	101	96.6	104867	PASS
177	176	5	9	6.8	7153	PASS

MNM 9/14/12

09131224.D 081012.M Fri Sep 14 08:11:24 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09131225.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091312\
Operator	MNM
Date Acquired	9/13/2012 5:28
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/14/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	60952	52594	26297	105188	TRUE
4)	Pentafluorobenzene	243012	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	335236	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	245611	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	101557	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	5733.71	250	2293%	36%	150%	FALSE	NT
3)	tert-Butanol (TBA)	126.72	125	101%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	25.01	25	100%	60%	140%	TRUE	
6)	Chloromethane	21.98	25	88%	48%	144%	TRUE	
7)	Vinyl Chloride	25.85	25	103%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	24.73	25	99%	50%	141%	TRUE	
9)	Bromomethane	26.37	25	105%	40%	144%	TRUE	
10)	Chloroethane	23.90	25	96%	60%	132%	TRUE	
11)	Trichlorofluoromethane	29.87	25	119%	68%	136%	TRUE	
12)	Acetone	30.07	25	120%	12%	150%	TRUE	
13)	Iodomethane	25.60	25	102%	40%	160%	TRUE	
14)	1,1-Dichloroethene	24.92	25	100%	80%	120%	TRUE	CCC
15)	Methylene Chloride	25.17	25	101%	68%	128%	TRUE	
16)	Freon 113	26.62	25	106%	76%	124%	TRUE	
17)	Carbon disulfide	24.98	25	100%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	21.40	25	86%	76%	120%	TRUE	
19)	MTBE	24.77	25	99%	64%	140%	TRUE	
20)	1,1-Dichloroethane	23.06	25	92%	72%	124%	TRUE	
21)	Vinyl Acetate	20.97	25	84%	48%	150%	TRUE	
22)	n-Hexane	18.94	25	76%	56%	150%	TRUE	
23)	2-Butanone (MEK)	24.10	25	96%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	20.70	25	83%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	22.97	25	92%	72%	128%	TRUE	
26)	Bromochloromethane	22.99	25	92%	72%	132%	TRUE	
27)	Chloroform	24.98	25	100%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	27.29	25	109%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop	23.26	25	93%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**26.94**	**25**	108%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	21.46	25	86%	64%	139%	TRUE	
32)	1,2-Dichloroethane	26.94	25	108%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	28.02	25	112%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	24.39	25	98%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.76	25	95%	76%	128%	TRUE	
37)	Carbon Tetrachloride	30.44	25	122%	72%	136%	TRUE	
38)	Benzene	22.73	25	91%	76%	120%	TRUE	

MM 9/14/12

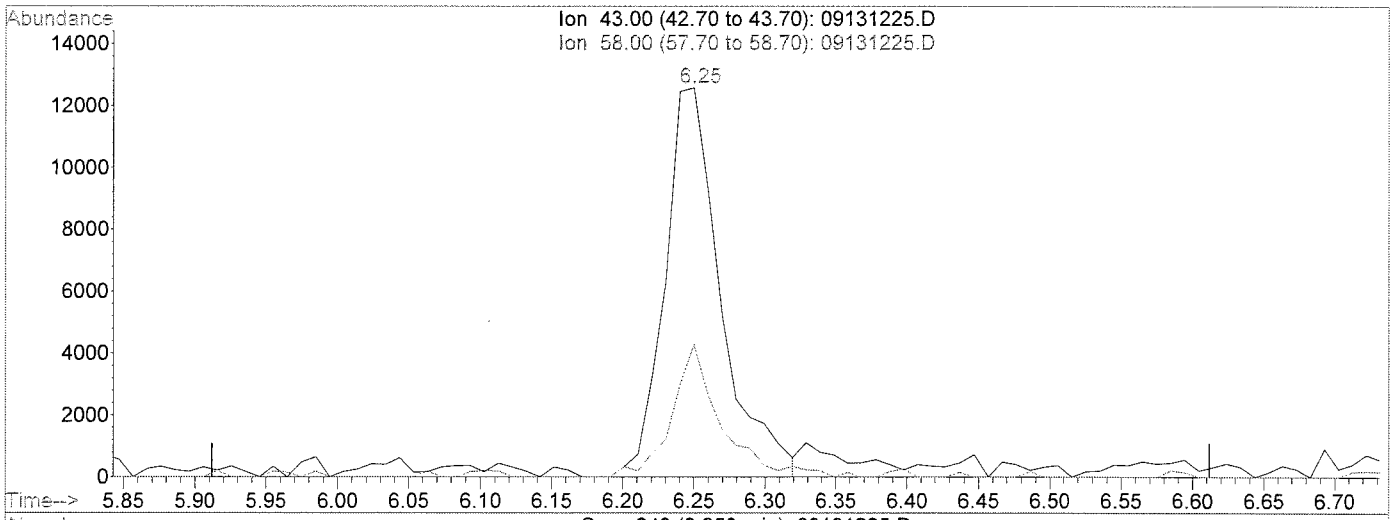
39) Dibromomethane	26.43	25	106%	72%	132%	TRUE	
40) 1,2-Dichloropropane	21.44	25	86%	80%	120%	TRUE	CCC
41) Trichloroethene	23.96	25	96%	80%	120%	TRUE	
42) Bromodichloromethane	27.04	25	108%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	12.39	25	50%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	23.86	25	95%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	21.54	25	86%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	26.61	25	106%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.21	25	101%	72%	132%	TRUE	
48) **Toluene-d8**	**26.25**	**25**	105%	80%	120%	**TRUE**	
49) Toluene	24.07	25	96%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	23.73	25	95%	80%	124%	TRUE	
52) 2-Hexanone	23.17	25	93%	52%	150%	TRUE	
53) Dibromochloromethane	26.67	25	107%	80%	128%	TRUE	
54) 1,2-Dibromoethane	23.13	25	93%	80%	128%	TRUE	
55) Tetrachloroethene	22.15	25	89%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	24.65	25	99%	76%	124%	TRUE	
57) Chlorobenzene	23.08	25	92%	80%	120%	TRUE	
58) Ethylbenzene	24.29	25	97%	80%	120%	TRUE	CCC
59) m,p-Xylenes	23.39	25	94%	80%	120%	TRUE	
60) Styrene	24.61	25	98%	84%	124%	TRUE	
61) o-Xylene	22.79	25	91%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**26.33**	**25**	105%	80%	120%	**TRUE**	
64) Bromoform	26.49	25	106%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	23.94	25	96%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	26.30	25	105%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	21.27	25	85%	48%	138%	TRUE	
68) Isopropylbenzene	24.45	25	98%	76%	132%	TRUE	
69) Bromobenzene	24.52	25	98%	76%	128%	TRUE	
70) n-Propylbenzene	23.90	25	96%	76%	132%	TRUE	
71) 2-Chlorotoluene	25.07	25	100%	80%	124%	TRUE	
72) 4-Chlorotoluene	25.56	25	102%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	25.57	25	102%	80%	128%	TRUE	
74) tert-Butylbenzene	26.21	25	105%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	25.42	25	102%	80%	128%	TRUE	
76) sec-Butylbenzene	24.70	25	99%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	23.84	25	95%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	23.48	25	94%	76%	120%	TRUE	
79) p-Isopropyltoluene	25.82	25	103%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	23.65	25	95%	80%	124%	TRUE	
81) n-Butylbenzene	24.00	25	96%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	29.31	25	117%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	23.74	25	95%	76%	128%	TRUE	
84) Napthalene	25.26	25	101%	68%	136%	TRUE	
85) Hexachlorobutadiene	33.40	25	134%	76%	132%	FALSE	
86) 1,2,3-Trichlorobenzene	25.58	25	102%	72%	128%	TRUE	

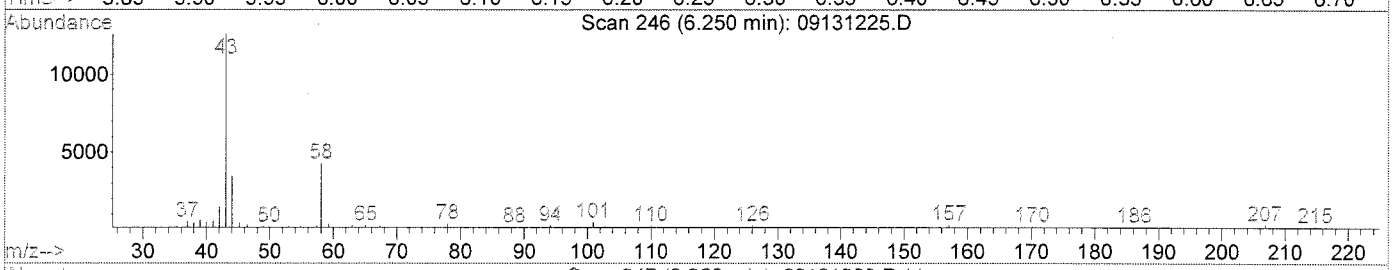
MM

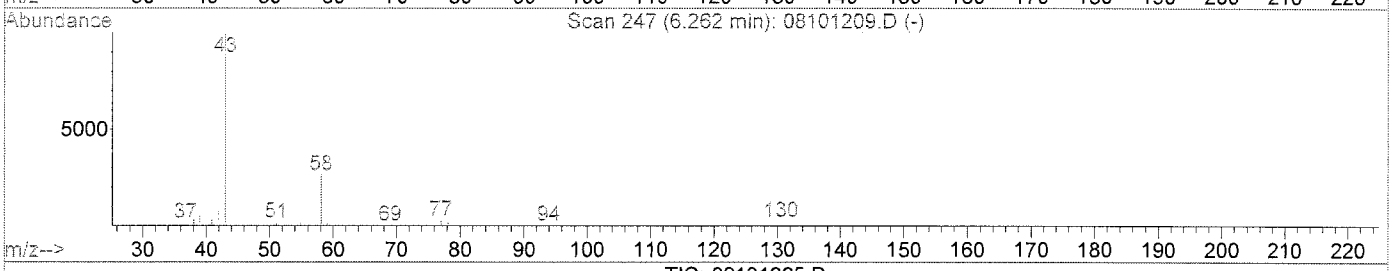
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 17:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131225.D

(12) Acetone (T)

6.25min 33.41ug/L

response 34179

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.99
0.00	0.00	0.00
0.00	0.00	0.00

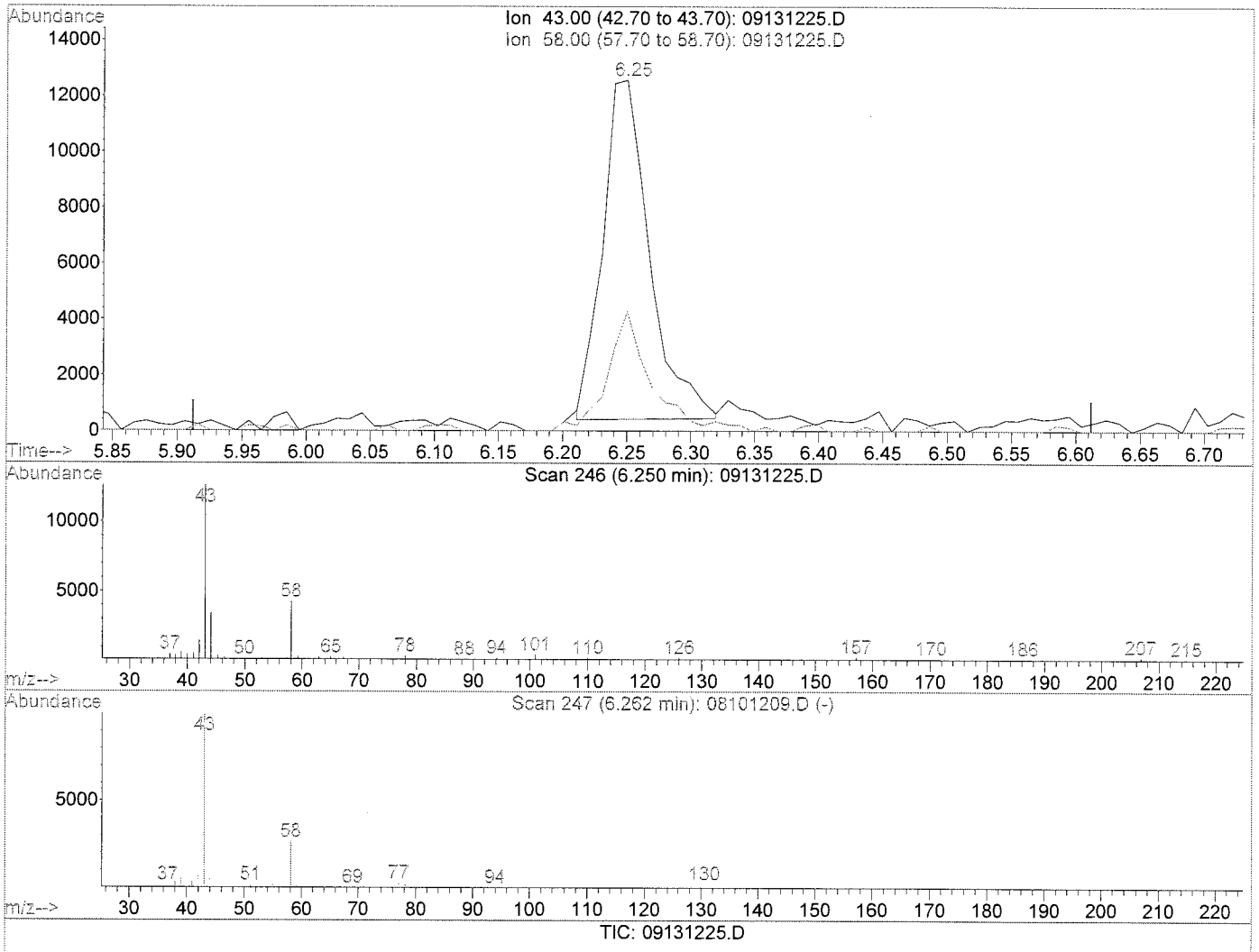
9/14/12

BL MNM 9/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 8:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.25min 30.07ug/L m

response 30766

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.31
0.00	0.00	0.00
0.00	0.00	0.00

9/14/12

A MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 8:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	60952	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	243012	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	335236	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	245611	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	101557	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	114480	26.94 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.76%	
48) Toluene-d8	13.32	98	347523	26.25 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.00%	
62) 4-Bromofluorobenzene	16.95	95	99939	26.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.32%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	188416	5733.71 ug/L	74
3) tert-Butanol (TBA)	6.82	59	45182	126.72 ug/L	99
5) Dichlorodifluoromethane	4.11	85	222976	25.01 ug/L	99
6) Chloromethane	4.34	50	190697	21.98 ug/L	98
7) Vinyl Chloride	4.63	62	205305	25.85 ug/L	97
8) 1,3-Butadiene	4.78	54	106217	24.73 ug/L	96
9) Bromomethane	5.18	94	127911	26.37 ug/L	97
10) Chloroethane	5.37	64	94116	23.90 ug/L	94
11) Trichlorofluoromethane	6.10	101	209693	29.87 ug/L	99
12) Acetone	6.25	43	30766m	30.07 ug/L	
13) Iodomethane	6.85	142	210045	25.60 ug/L #	90
14) 1,1-Dichloroethene	6.80	96	121757	24.92 ug/L	94
15) Methylene Chloride	6.99	84	109485	25.17 ug/L	98
16) Freon 113	7.07	101	134716	26.62 ug/L	97
17) Carbon disulfide	7.29	76	396928	24.98 ug/L	96
18) trans-1,2-Dichloroethene	7.85	96	121250	21.40 ug/L	95
19) MTBE	7.99	73	198434	24.77 ug/L	97
20) 1,1-Dichloroethane	8.17	63	202900	23.06 ug/L	98
21) Vinyl Acetate	8.34	43	130801	20.97 ug/L	99
22) n-Hexane	8.68	86	26347	18.94 ug/L	88
23) 2-Butanone (MEK)	8.72	72	8437	24.10 ug/L #	64
24) Diisopropyl Ether (DIPE)	8.73	45	307443	20.70 ug/L	90
25) cis-1,2-Dichloroethene	8.91	96	118472	22.97 ug/L	98
26) Bromochloromethane	9.11	128	47065	22.99 ug/L	88
27) Chloroform	9.17	83	192230	24.98 ug/L	98
28) 2,2-Dichloropropane	9.27	77	159030	27.29 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	249479	23.26 ug/L	97
31) Tetrahydrofuran	9.58	72	6831	21.46 ug/L #	78
32) 1,2-Dichloroethane	10.01	62	100036	26.94 ug/L	92
33) 1,1,1-Trichloroethane	10.14	97	180603	28.02 ug/L	99
34) (TAME) tert-Amyl methyl et	10.84	73	210756	24.39 ug/L	99
36) 1,1-Dichloropropene	10.37	75	170311	23.76 ug/L	97
37) Carbon Tetrachloride	10.60	117	171108	30.44 ug/L	96
38) Benzene	10.66	78	388806	22.73 ug/L	98
39) Dibromomethane	11.38	93	53376	26.43 ug/L	93
40) 1,2-Dichloropropane	11.42	63	87388	21.44 ug/L #	90

(#) = qualifier out of range (m) = manual integration

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 8:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.47	95	114921	23.96 ug/L	97
42)	Bromodichloromethane	11.54	83	126859	27.04 ug/L	96
43)	2-Chlorovinylethylether	12.08	63	19094	12.39 ug/L	95
44)	cis-1,3-Dichloropropene	12.38	75	130498	23.86 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	52890	21.54 ug/L	99
46)	trans-1,3-Dichloropropene	12.95	75	110686	26.61 ug/L	95
47)	1,1,2-Trichloroethane	13.17	97	59783	25.21 ug/L	90
49)	Toluene	13.42	92	234180	24.07 ug/L	99
51)	1,3-Dichloropropane	13.48	76	103486	23.73 ug/L	97
52)	2-Hexanone	13.68	43	42242	23.17 ug/L	98
53)	Dibromochloromethane	13.84	129	84342	26.67 ug/L	98
54)	1,2-Dibromoethane	14.18	107	61295	23.13 ug/L	99
55)	Tetrachloroethene	14.40	164	95862	22.15 ug/L	95
56)	1,1,1,2-Tetrachloroethane	15.21	131	85478	24.65 ug/L	98
57)	Chlorobenzene	15.32	112	232714	23.08 ug/L	98
58)	Ethylbenzene	15.57	91	427722	24.29 ug/L	98
59)	m,p-Xylenes	15.84	106	157192	23.39 ug/L	95
60)	Styrene	16.29	104	221449	24.61 ug/L	98
61)	o-Xylene	16.39	106	141509	22.79 ug/L	95
64)	Bromoform	16.01	173	46312	26.49 ug/L	97
65)	1,1,2,2-Tetrachloroethane	16.39	83	65302	23.94 ug/L	100
66)	1,2,3-Trichloropropane	16.59	110	17294	26.30 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.61	53	14128	21.27 ug/L	88
68)	Isopropylbenzene	16.89	105	370838	24.45 ug/L	99
69)	Bromobenzene	17.24	156	90636	24.52 ug/L	96
70)	n-Propylbenzene	17.50	91	460182	23.90 ug/L	98
71)	2-Chlorotoluene	17.64	91	261002	25.07 ug/L	96
72)	4-Chlorotoluene	17.75	91	260196	25.56 ug/L	96
73)	1,3,5-Trimethylbenzene	17.91	105	302473	25.57 ug/L	97
74)	tert-Butylbenzene	18.30	119	276939	26.21 ug/L	97
75)	1,2,4-Trimethylbenzene	18.46	105	284464	25.42 ug/L	99
76)	sec-Butylbenzene	18.60	105	422298	24.70 ug/L	100
77)	1,3-Dichlorobenzene	18.71	146	160373	23.84 ug/L	98
78)	1,4-Dichlorobenzene	18.80	146	154829	23.48 ug/L	98
79)	p-Isopropyltoluene	18.85	119	330787	25.82 ug/L	97
80)	1,2-Dichlorobenzene	19.27	146	129516	23.65 ug/L	97
81)	n-Butylbenzene	19.39	91	294825	24.00 ug/L	100
82)	1,2-Dibromo-3-chloropropan	19.85	75	8033	29.31 ug/L	97
83)	1,2,4-Trichlorobenzene	21.51	180	69713	23.74 ug/L	98
84)	Napthalene	21.82	128	118680	25.26 ug/L	99
85)	Hexachlorobutadiene	21.88	225	66290	33.40 ug/L	98
86)	1,2,3-Trichlorobenzene	22.08	180	60861	25.58 ug/L	99

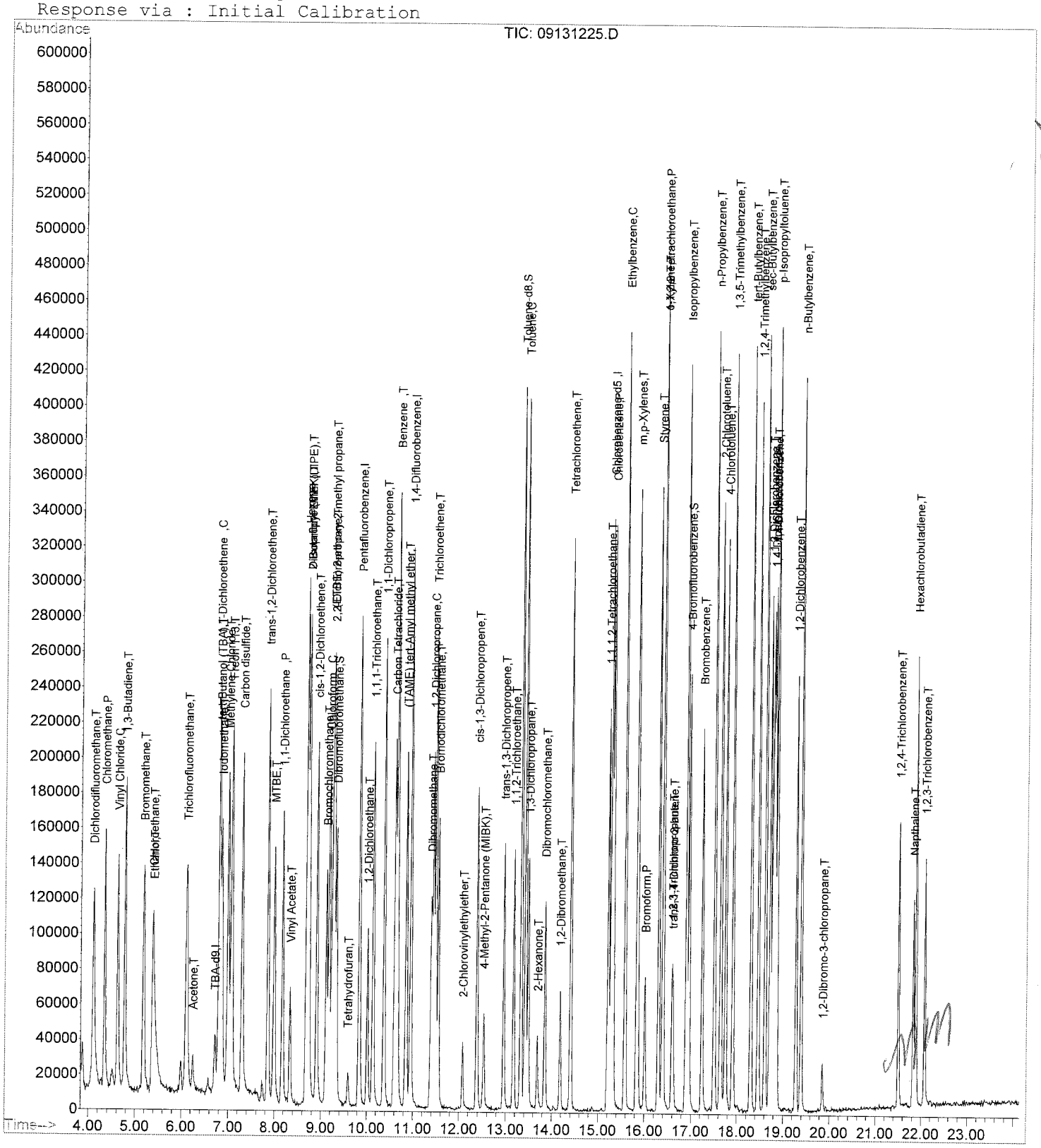
MM

(#) = qualifier out of range (m) = manual integration
09131225.D 081012.M Fri Sep 14 08:12:35 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 8:12 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



09131225.D 081012.M Fri Sep 14 08:12:35 2012

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

9/14/12

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	116	-0.01
2	T	Ethanol	0.108	2.473	-2189.8#	2812#	0.00
3	T	tert-Butanol (TBA)	1.170	1.186	-1.4	115	-0.01
4	I	Pentafluorobenzene	1.000	1.000	0.0	86	-0.01
5	T	Dichlorodifluoromethane	0.917	0.918	-0.1	86	0.00
6	P	Chloromethane	0.893	0.785	12.1	77	-0.01
7	C	Vinyl Chloride	0.817	0.845	-3.4	88	0.00
8	T	1,3-Butadiene	0.442	0.437	1.1	84	0.00
9	T	Bromomethane	0.499	0.526	-5.4	93	-0.01
10	T	Chloroethane	0.405	0.387	4.4	82	0.00
11	T	Trichlorofluoromethane	0.722	0.863	-19.5	103	-0.01
12	T	Acetone	0.105	0.127	-21.0	94	-0.01
13	T	Iodomethane	0.844	0.864	-2.4	90	-0.01
14	C	1,1-Dichloroethene	0.503	0.501	0.4	92	-0.01
15	T	Methylene Chloride	0.448	0.451	-0.7	91	-0.01
16	T	Freon 113	0.521	0.554	-6.3	92	0.00
17	T	Carbon disulfide	1.635	1.633	0.1	85	0.00
18	T	trans-1,2-Dichloroethene	0.583	0.499	14.4	77	-0.01
19	T	MTBE	0.824	0.817	0.8	87	-0.01
20	P	1,1-Dichloroethane	0.905	0.835	7.7	81	-0.01
21	T	Vinyl Acetate	0.642	0.538	16.2	73	0.00
22		n-Hexane	0.143	0.108	24.5	68	-0.01
23	T	2-Butanone (MEK)	0.036	0.035#	2.8	78	-0.01
24	T	Diisopropyl Ether (DIPE)	1.528	1.265	17.2	74	-0.01
25	T	cis-1,2-Dichloroethene	0.531	0.488	8.1	82	0.00
26	T	Bromochloromethane	0.211	0.194	8.1	81	0.00
27	C	Chloroform	0.792	0.791	0.1	86	0.00
28	T	2,2-Dichloropropane	0.599	0.654	-9.2	97	0.00
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	1.027	6.9	84	0.00
30	S	Dibromofluoromethane	0.437	0.471	-7.8	95	-0.01
31	T	Tetrahydrofuran	0.033	0.028#	15.2	85	-0.01
32	T	1,2-Dichloroethane	0.382	0.412	-7.9	95	0.00
33	T	1,1,1-Trichloroethane	0.663	0.743	-12.1	95	0.00
34	T	(TAME) tert-Amyl methyl eth	0.889	0.867	2.5	87	-0.01
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	86	-0.01
36	T	1,1-Dichloropropene	0.535	0.508	5.0	83	0.00
37	T	Carbon Tetrachloride	0.419	0.510	-21.7	104	-0.01
38	T	Benzene	1.276	1.160	9.1	78	0.00
39	T	Dibromomethane	0.151	0.159	-5.3	92	0.00
40	C	1,2-Dichloropropane	0.304	0.261	14.1	74	-0.01
41	T	Trichloroethene	0.358	0.343	4.2	82	-0.01
42	T	Bromodichloromethane	0.350	0.378	-8.0	90	-0.01
43	T	2-Chlorovinylethylether	0.115	0.057#	50.4#	43#	0.00
44	T	cis-1,3-Dichloropropene	0.408	0.389	4.7	79	-0.01
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.158	13.7	79	0.00
46	T	trans-1,3-Dichloropropene	0.310	0.330	-6.5	90	0.00
47	T	1,1,2-Trichloroethane	0.177	0.178	-0.6	83	0.00
48	S	Toluene-d8	0.987	1.037	-5.1	90	0.00

(#) = Out of Range

MM 9/14/12

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131225.D Vial: 2
Acq On : 13 Sep 2012 5:28 pm Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.699	3.7	83	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
51	T	1,3-Dichloropropane	0.444	0.421	5.2	83	-0.01
52	T	2-Hexanone	0.186	0.172	7.5	80	-0.01
53	T	Dibromochloromethane	0.322	0.343	-6.5	92	-0.01
54	T	1,2-Dibromoethane	0.270	0.250	7.4	80	0.00
55	T	Tetrachloroethene	0.440	0.390	11.4	77	0.00
56	T	1,1,1,2-Tetrachloroethane	0.353	0.348	1.4	83	0.00
57	P	Chlorobenzene	1.026	0.947	7.7	81	0.00
58	C	Ethylbenzene	1.793	1.741	2.9	84	-0.01
59	T	m,p-Xylenes	0.684	0.640	6.4	80	0.00
60	T	Styrene	0.916	0.902	1.5	82	0.00
61	T	o-Xylene	0.632	0.576	8.9	79	0.00
62	S	4-Bromofluorobenzene	0.386	0.407	-5.4	95	0.00
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
64	P	Bromoform	0.430	0.456	-6.0	88	0.00
65	P	1,1,2,2-Tetrachloroethane	0.672	0.643	4.3	81	0.00
66	T	1,2,3-Trichloropropane	0.162	0.170	-4.9	89	0.00
67	T	trans-1,4-Dichloro-2-butene	0.150	0.139	7.3	75	-0.01
68	T	Isopropylbenzene	3.734	3.652	2.2	82	0.00
69	T	Bromobenzene	0.910	0.892	2.0	80	-0.01
70	T	n-Propylbenzene	4.740	4.531	4.4	79	0.00
71	T	2-Chlorotoluene	2.563	2.570	-0.3	86	0.00
72	T	4-Chlorotoluene	2.506	2.562	-2.2	88	0.00
73	T	1,3,5-Trimethylbenzene	2.912	2.978	-2.3	83	0.00
74	T	tert-Butylbenzene	2.601	2.727	-4.8	85	0.00
75	T	1,2,4-Trimethylbenzene	2.755	2.801	-1.7	84	0.00
76	T	sec-Butylbenzene	4.209	4.158	1.2	80	0.00
77	T	1,3-Dichlorobenzene	1.656	1.579	4.6	80	0.00
78	T	1,4-Dichlorobenzene	1.623	1.525	6.0	79	-0.01
79	T	p-Isopropyltoluene	3.154	3.257	-3.3	83	0.00
80	T	1,2-Dichlorobenzene	1.348	1.275	5.4	78	0.00
81	T	n-Butylbenzene	3.024	2.903	4.0	76	0.00
82	T	1,2-Dibromo-3-chloropropane	0.063	0.079#	-25.4	87	0.00
83	T	1,2,4-Trichlorobenzene	0.723	0.686	5.1	73	0.00
84	T	Napthalene	1.156	1.169	-1.1	78	0.00
85	T	Hexachlorobutadiene	0.549	0.653	-18.9	92	0.00
86	T	1,2,3-Trichlorobenzene	0.602	0.599	0.5	78	-0.01

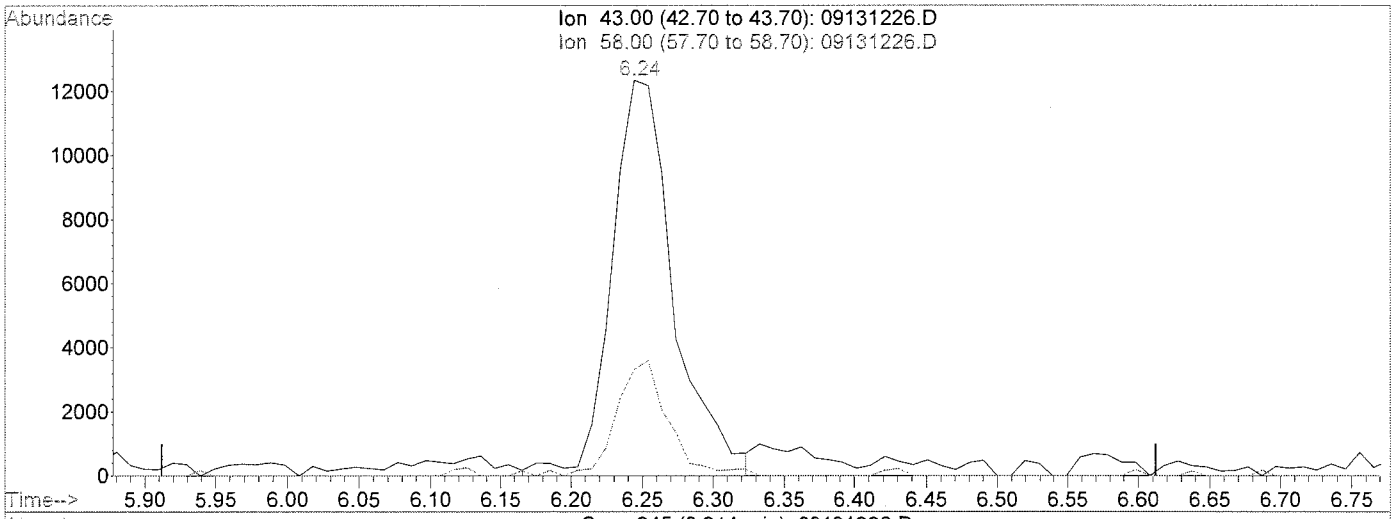
MNM

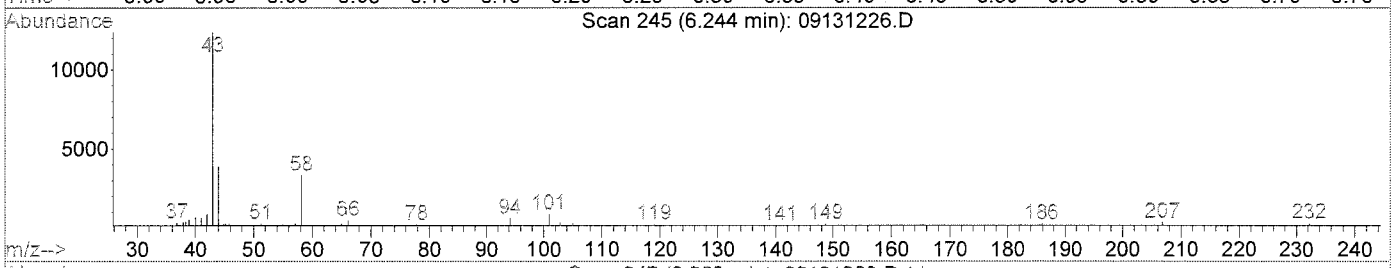
(#) = Out of Range SPCC's out = 0 CCC's out = 0
09131225.D 081012.M Fri Sep 14 08:12:38 2012

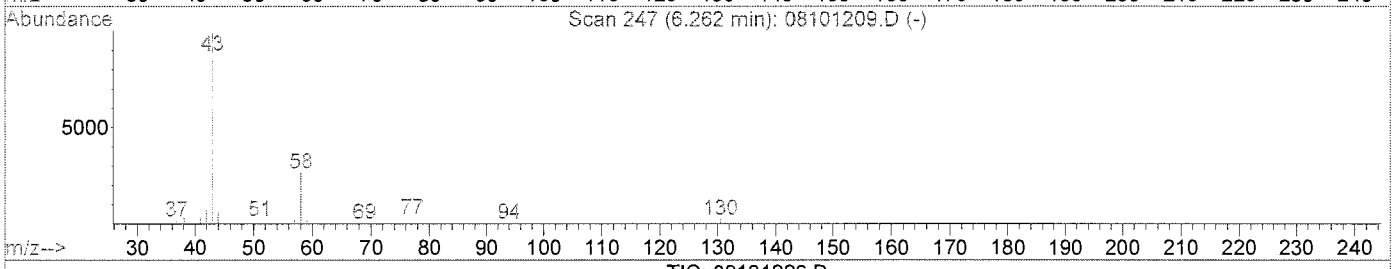
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131226.D Vial: 3
Acq On : 13 Sep 2012 6:02 pm Operator: MNM
Sample : 12I0465-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131226.D

(12) Acetone (T)

6.24min 37.14ug/L

response 37435

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.34#
0.00	0.00	0.00
0.00	0.00	0.00

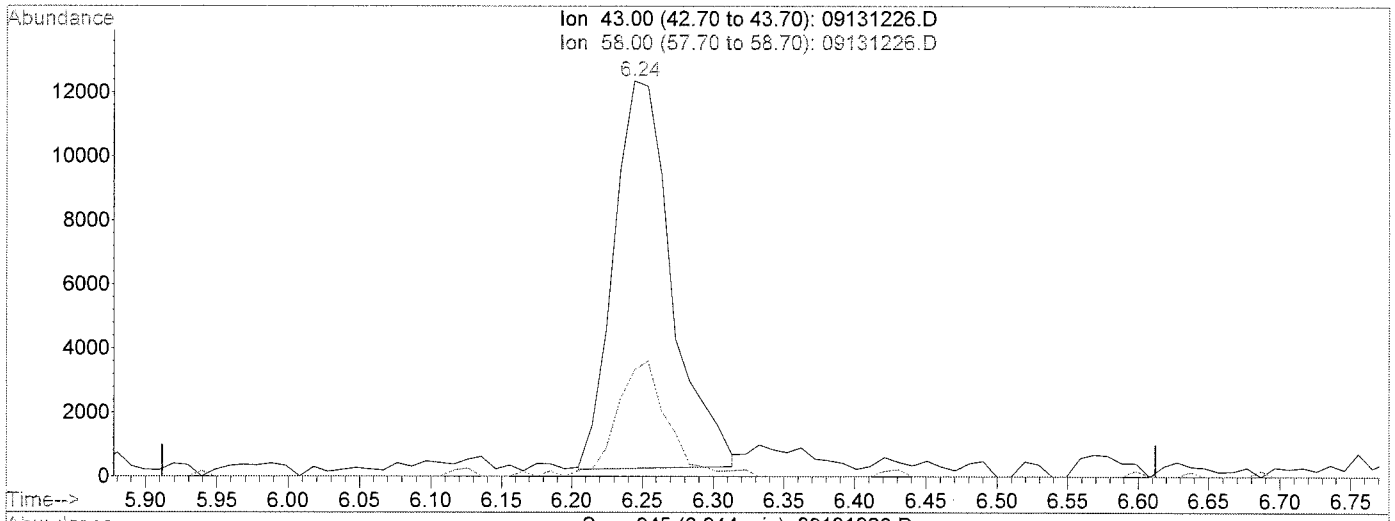
9/14/12

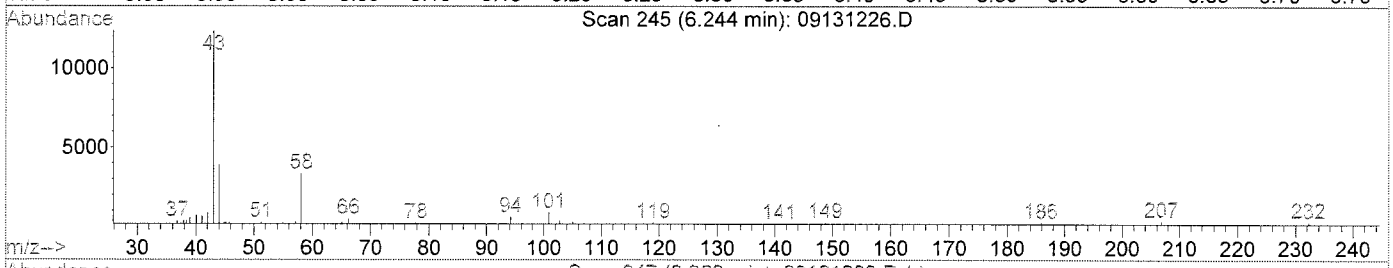
BL MM 9/14/12

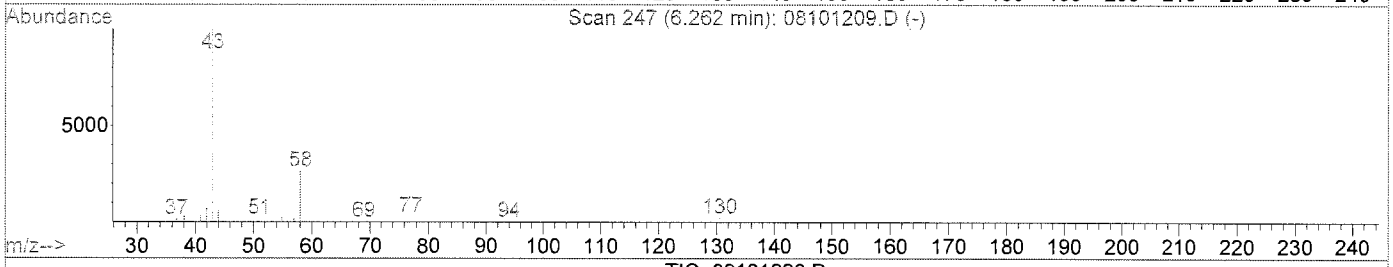
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131226.D Vial: 3
Acq On : 13 Sep 2012 6:02 pm Operator: MNM
Sample : 12I0465-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131226.D

(12) Acetone (T)

6.24min 34.29ug/L m

response 34559

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.36
0.00	0.00	0.00
0.00	0.00	0.00

9/14/12
MNM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131226.D Vial: 3
Acq On : 13 Sep 2012 6:02 pm Operator: MNM
Sample : 12I0465-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	58309	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	239425	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	321971	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	240355	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	97328	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	113320	27.06 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.24%	
48) Toluene-d8	13.32	98	322177	25.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.36%	
62) 4-Bromofluorobenzene	16.95	95	99605	26.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 107.28%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	160001	5089.71 ug/L #	64
3) tert-Butanol (TBA)	6.82	59	49731	145.80 ug/L	99
5) Dichlorodifluoromethane	4.11	85	276943	31.52 ug/L	99
6) Chloromethane	4.35	50	246345	28.81 ug/L	99
7) Vinyl Chloride	4.62	62	215437	27.53 ug/L	100
8) 1,3-Butadiene	4.78	54	167080	39.48 ug/L	96
9) Bromomethane	5.18	94	138313	28.95 ug/L	100
10) Chloroethane	5.37	64	102546	26.43 ug/L	99
11) Trichlorofluoromethane	6.12	101	245360	35.48 ug/L	99
12) Acetone	6.24	43	34559m	34.29 ug/L	
13) Iodomethane	6.85	142	248661	30.76 ug/L	91
14) 1,1-Dichloroethene	6.79	96	133458	27.73 ug/L	98
15) Methylene Chloride	6.99	84	104731	24.44 ug/L	100
16) Freon 113	7.06	101	158277	31.75 ug/L	99
17) Carbon disulfide	7.29	76	434271	27.74 ug/L	98
18) trans-1,2-Dichloroethene	7.86	96	129187	23.14 ug/L	99
19) MTBE	7.99	73	197709	25.05 ug/L	97
20) 1,1-Dichloroethane	8.17	63	202529	23.36 ug/L	99
21) Vinyl Acetate	8.34	43	134266	21.85 ug/L	99
22) n-Hexane	8.67	86	29014	21.17 ug/L	96
23) 2-Butanone (MEK)	8.71	72	8928	25.89 ug/L #	100
24) Diisopropyl Ether (DIPE)	8.73	45	321245	21.95 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	122221	24.05 ug/L	98
26) Bromochloromethane	9.12	128	46377	22.99 ug/L	89
27) Chloroform	9.17	83	176246	23.24 ug/L	96
28) 2,2-Dichloropropane	9.27	77	168175	29.30 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	243541	23.05 ug/L	99
31) Tetrahydrofuran	9.59	72	5675	18.09 ug/L	82
32) 1,2-Dichloroethane	10.01	62	100144	27.38 ug/L	95
33) 1,1,1-Trichloroethane	10.13	97	181002	28.50 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	197010	23.14 ug/L	96
36) 1,1-Dichloropropene	10.37	75	149401	21.70 ug/L	98
37) Carbon Tetrachloride	10.60	117	171113	31.70 ug/L	99
38) Benzene	10.65	78	394392	24.01 ug/L	98
39) Dibromomethane	11.39	93	45016	23.21 ug/L	97
40) 1,2-Dichloropropane	11.43	63	85830	21.93 ug/L	91

(#) = qualifier out of range (m) = manual integration
09131226.D 081012.M Fri Sep 14 06:40:22 2012

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131226.D Vial: 3
Acq On : 13 Sep 2012 6:02 pm Operator: MNM
Sample : 12I0465-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	113005	24.54 ug/L	97
42) Bromodichloromethane	11.55	83	118092	26.21 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	27823	18.80 ug/L	98
44) cis-1,3-Dichloropropene	12.38	75	122878	23.39 ug/L	90
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	53888	22.85 ug/L	96
46) trans-1,3-Dichloropropene	12.95	75	102573	25.68 ug/L	96
47) 1,1,2-Trichloroethane	13.17	97	59754	26.23 ug/L	92
49) Toluene	13.41	92	239784	25.66 ug/L	97
51) 1,3-Dichloropropane	13.48	76	102370	23.99 ug/L	97
52) 2-Hexanone	13.68	43	40738	22.84 ug/L	96
53) Dibromochloromethane	13.85	129	78917	25.50 ug/L	99
54) 1,2-Dibromoethane	14.18	107	61672	23.78 ug/L	100
55) Tetrachloroethene	14.40	164	99040	23.39 ug/L	97
56) 1,1,1,2-Tetrachloroethane	15.21	131	85575	25.22 ug/L	98
57) Chlorobenzene	15.31	112	243443	24.67 ug/L	98
58) Ethylbenzene	15.58	91	431214	25.02 ug/L	99
59) m,p-Xylenes	15.83	106	163716	24.90 ug/L	98
60) Styrene	16.29	104	213838	24.28 ug/L	96
61) o-Xylene	16.40	106	144848	23.83 ug/L	96
64) Bromoform	16.00	173	46117	27.53 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	65686	25.13 ug/L	99
66) 1,2,3-Trichloropropane	16.58	110	16502	26.19 ug/L	89
67) trans-1,4-Dichloro-2-buten	16.61	53	14654	22.93 ug/L #	95
68) Isopropylbenzene	16.90	105	426981	29.37 ug/L	100
69) Bromobenzene	17.24	156	93705	26.46 ug/L	99
70) n-Propylbenzene	17.51	91	492891	26.71 ug/L	99
71) 2-Chlorotoluene	17.63	91	263938	26.45 ug/L	98
72) 4-Chlorotoluene	17.74	91	262929	26.95 ug/L	96
73) 1,3,5-Trimethylbenzene	17.90	105	310632	27.40 ug/L	98
74) tert-Butylbenzene	18.30	119	283220	27.97 ug/L	98
75) 1,2,4-Trimethylbenzene	18.45	105	277631	25.89 ug/L	98
76) sec-Butylbenzene	18.61	105	435787	26.60 ug/L	99
77) 1,3-Dichlorobenzene	18.72	146	163312	25.34 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	152435	24.12 ug/L	99
79) p-Isopropyltoluene	18.85	119	328889	26.79 ug/L	98
80) 1,2-Dichlorobenzene	19.27	146	131392	25.03 ug/L	98
81) n-Butylbenzene	19.39	91	308379	26.19 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	7854	29.93 ug/L	97
83) 1,2,4-Trichlorobenzene	21.50	180	75954	26.99 ug/L	99
84) Napthalene	21.82	128	120133	26.69 ug/L	98
85) Hexachlorobutadiene	21.88	225	65499	34.53 ug/L	99
86) 1,2,3-Trichlorobenzene	22.08	180	62855	27.68 ug/L	98

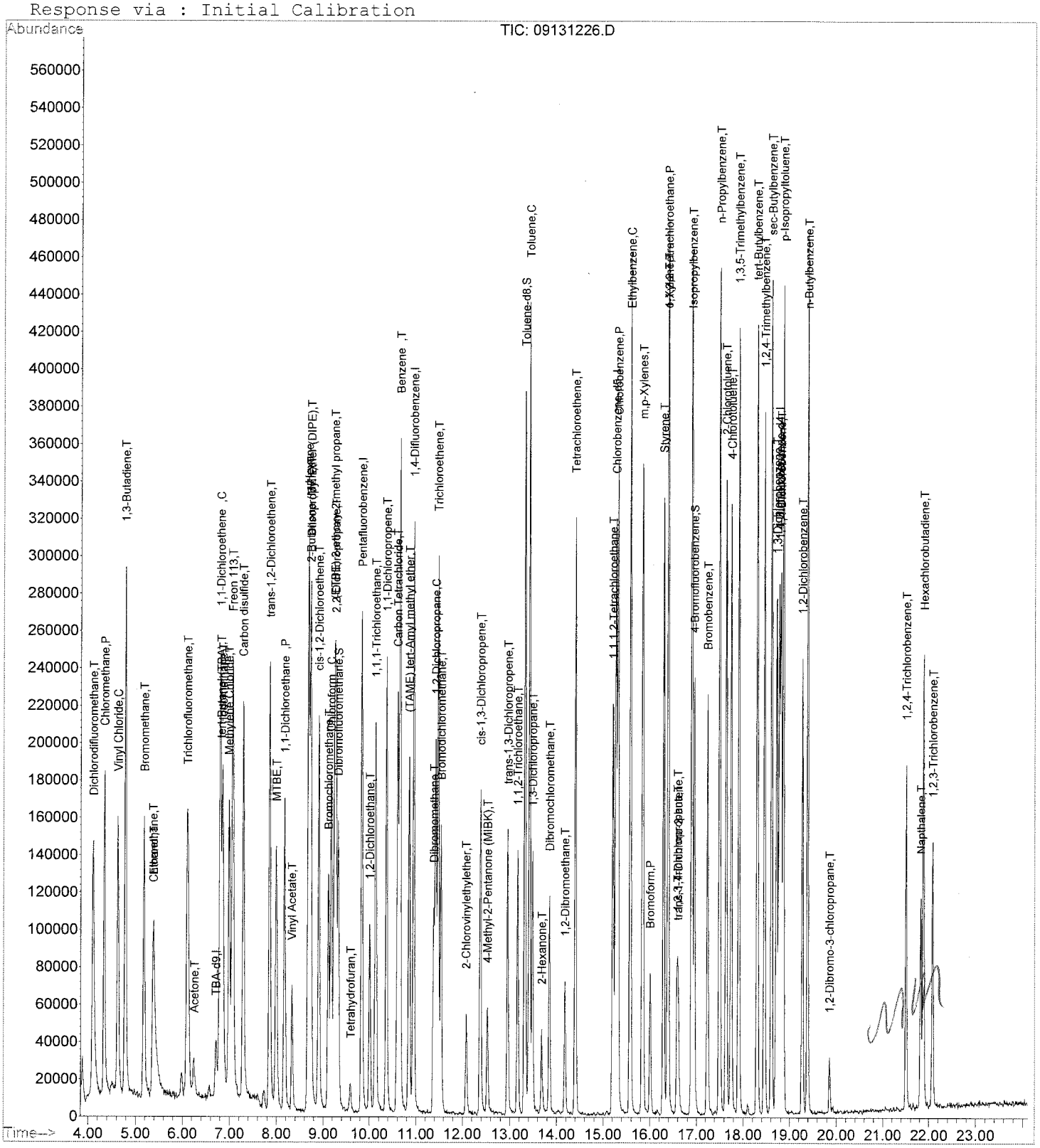
MM

(#) = qualifier out of range (m) = manual integration
09131226.D 081012.M Fri Sep 14 06:40:22 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131226.D Vial: 3
Acq On : 13 Sep 2012 6:02 pm Operator: MNM
Sample : 12I0465-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

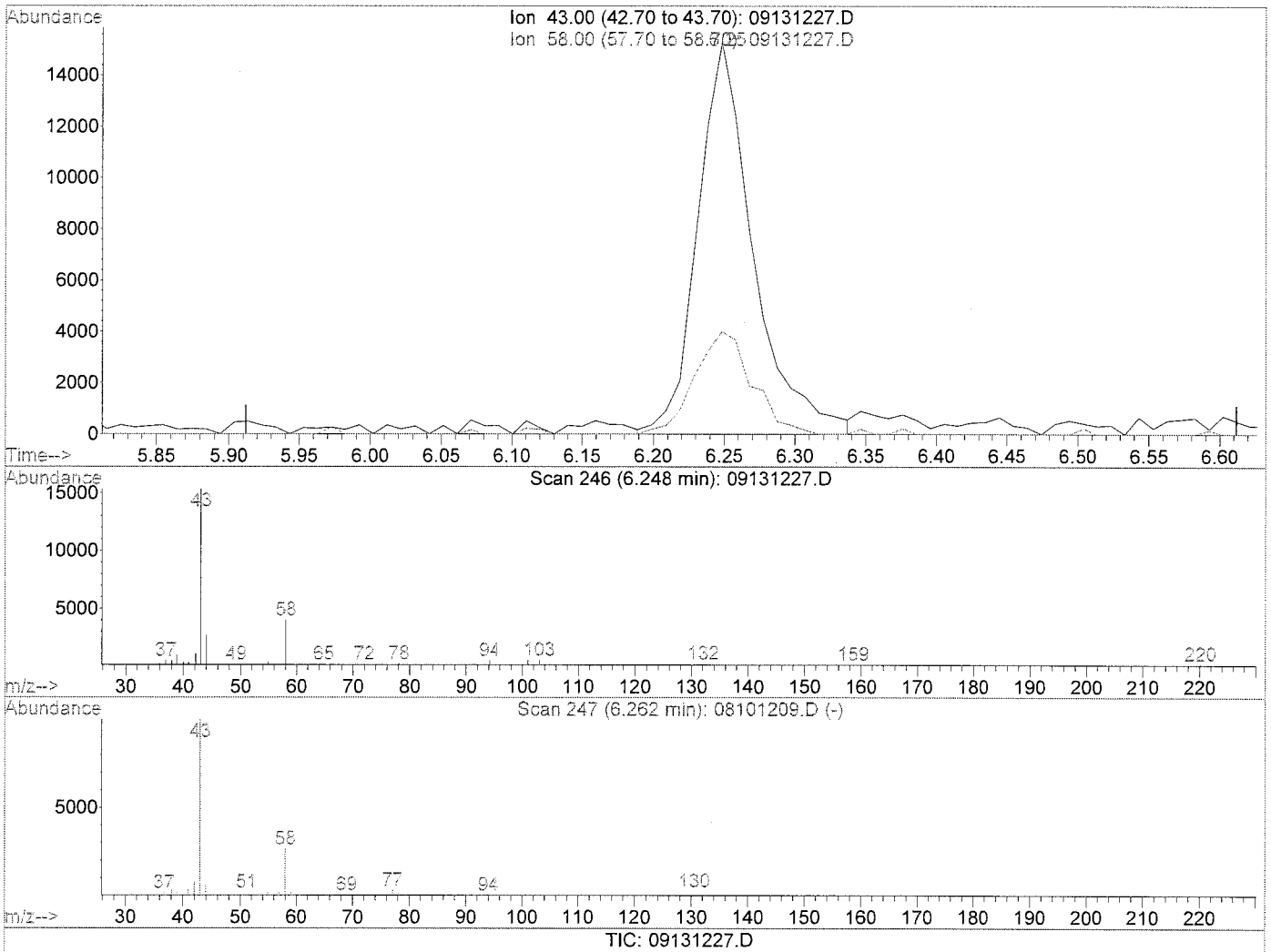
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131227.D Vial: 4
Acq On : 13 Sep 2012 6:34 pm Operator: MNM
Sample : 12I0465-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



TIC: 09131227.D

(12) Acetone (T)

6.25min 40.06ug/L

response 41501

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.26
0.00	0.00	0.00
0.00	0.00	0.00

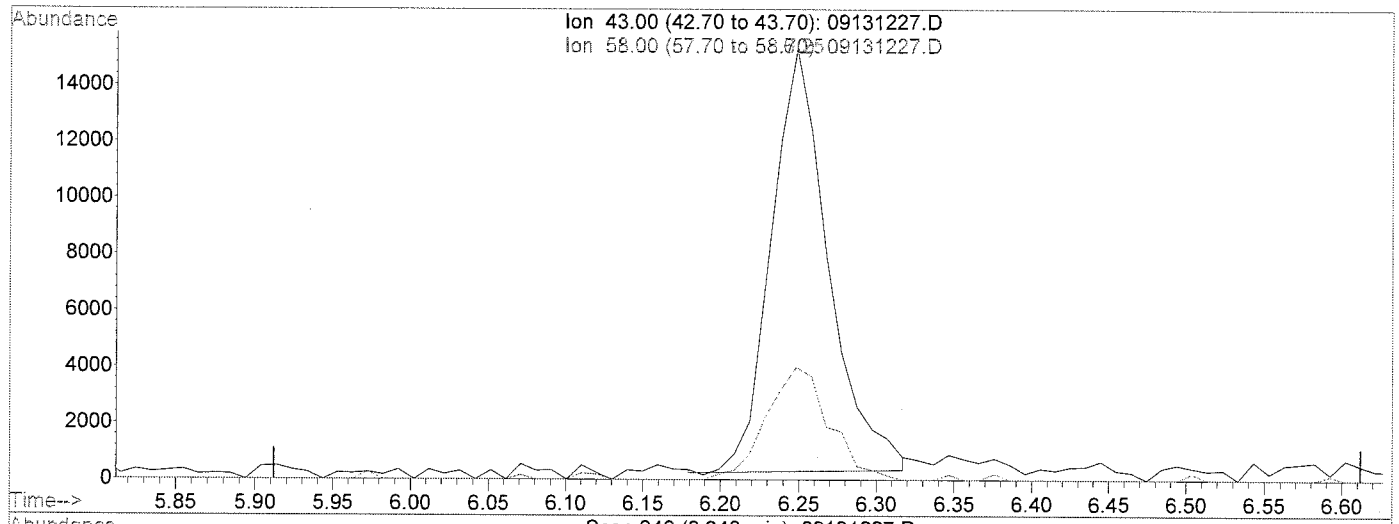
9/14/12

MNM 9/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131227.D Vial: 4
Acq On : 13 Sep 2012 6:34 pm Operator: MNM
Sample : 12I0465-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.25min 37.08ug/L m

response 38408

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.45
0.00	0.00	0.00
0.00	0.00	0.00

9/14/12

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131227.D Vial: 4
Acq On : 13 Sep 2012 6:34 pm Operator: MNM
Sample : 12I0465-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	57343	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	246068	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	335215	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	243549	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	95099	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	112261	26.09 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.36%	
48) Toluene-d8	13.32	98	332403	25.11 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.44%	
62) 4-Bromofluorobenzene	16.95	95	100054	26.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	106.32%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	165414	5350.54 ug/L #	63
3) tert-Butanol (TBA)	6.83	59	45686	136.20 ug/L	98
5) Dichlorodifluoromethane	4.10	85	285285	31.60 ug/L	99
6) Chloromethane	4.34	50	246036	28.00 ug/L	99
7) Vinyl Chloride	4.63	62	219315	27.27 ug/L	98
8) 1,3-Butadiene	4.78	54	177044	40.71 ug/L	97
9) Bromomethane	5.19	94	143204	29.16 ug/L	98
10) Chloroethane	5.37	64	103860	26.04 ug/L	98
11) Trichlorofluoromethane	6.11	101	253380	35.65 ug/L	98
12) Acetone	6.25	43	38408m	37.08 ug/L	
13) Iodomethane	6.85	142	260955	31.41 ug/L	93
14) 1,1-Dichloroethene	6.80	96	137277	27.75 ug/L	95
15) Methylene Chloride	6.99	84	106710	24.23 ug/L	96
16) Freon 113	7.06	101	152704	29.80 ug/L	96
17) Carbon disulfide	7.29	76	452030	28.09 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	137613	23.99 ug/L	100
19) MTBE	7.99	73	204176	25.17 ug/L	99
20) 1,1-Dichloroethane	8.18	63	204808	22.99 ug/L	99
21) Vinyl Acetate	8.33	43	150668	23.86 ug/L	100
22) n-Hexane	8.68	86	30315	21.53 ug/L	95
23) 2-Butanone (MEK)	8.72	72	8880	25.05 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.73	45	341507	22.71 ug/L #	57
25) cis-1,2-Dichloroethene	8.90	96	125056	23.94 ug/L	96
26) Bromochloromethane	9.11	128	49608	23.93 ug/L	91
27) Chloroform	9.17	83	184948	23.73 ug/L #	94
28) 2,2-Dichloropropane	9.27	77	164434	27.87 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	256359	23.61 ug/L	99
31) Tetrahydrofuran	9.58	72	5831	18.09 ug/L	89
32) 1,2-Dichloroethane	10.01	62	105146	27.97 ug/L	94
33) 1,1,1-Trichloroethane	10.13	97	189543	29.04 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	212669	24.30 ug/L	98
36) 1,1-Dichloropropene	10.37	75	154964	21.62 ug/L	97
37) Carbon Tetrachloride	10.61	117	172192	30.64 ug/L	99
38) Benzene	10.65	78	404805	23.67 ug/L	99
39) Dibromomethane	11.38	93	49854	24.69 ug/L	97
40) 1,2-Dichloropropane	11.42	63	91862	22.54 ug/L	91

MM 9/14/12

(#) = qualifier out of range (m) = manual integration
09131227.D 081012.M Fri Sep 14 06:40:45 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131227.D Vial: 4
Acq On : 13 Sep 2012 6:34 pm Operator: MNM
Sample : 12I0465-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	125356	26.14 ug/L	95
42) Bromodichloromethane	11.54	83	131373	28.01 ug/L	96
43) 2-Chlorovinylethylether	12.08	63	30165	19.58 ug/L	93
44) cis-1,3-Dichloropropene	12.38	75	137504	25.14 ug/L	97
45) 4-Methyl-2-Pentanone (MIBK	12.52	43	56373	22.96 ug/L	96
46) trans-1,3-Dichloropropene	12.95	75	107543	25.86 ug/L	97
47) 1,1,2-Trichloroethane	13.16	97	62319	26.28 ug/L	95
49) Toluene	13.42	92	246691	25.36 ug/L	100
51) 1,3-Dichloropropane	13.49	76	104721	24.21 ug/L	99
52) 2-Hexanone	13.68	43	43283	23.94 ug/L	95
53) Dibromochloromethane	13.85	129	85329	27.21 ug/L	99
54) 1,2-Dibromoethane	14.18	107	64507	24.55 ug/L	96
55) Tetrachloroethene	14.40	164	103647	24.16 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.21	131	90004	26.18 ug/L	96
57) Chlorobenzene	15.32	112	249175	24.92 ug/L	96
58) Ethylbenzene	15.57	91	441337	25.27 ug/L	99
59) m,p-Xylenes	15.84	106	171190	25.69 ug/L	99
60) Styrene	16.29	104	218848	24.53 ug/L	97
61) o-Xylene	16.39	106	156754	25.46 ug/L	96
64) Bromoform	16.01	173	49271	30.10 ug/L	97
65) 1,1,2,2-Tetrachloroethane	16.38	83	67270	26.34 ug/L	99
66) 1,2,3-Trichloropropane	16.59	110	17353	28.19 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.61	53	14163	22.69 ug/L	96
68) Isopropylbenzene	16.89	105	433650	30.53 ug/L	99
69) Bromobenzene	17.25	156	89318	25.81 ug/L	95
70) n-Propylbenzene	17.50	91	495999	27.51 ug/L	99
71) 2-Chlorotoluene	17.64	91	276837	28.40 ug/L	97
72) 4-Chlorotoluene	17.75	91	261228	27.40 ug/L	97
73) 1,3,5-Trimethylbenzene	17.90	105	323116	29.17 ug/L	94
74) tert-Butylbenzene	18.30	119	291240	29.44 ug/L	96
75) 1,2,4-Trimethylbenzene	18.45	105	293683	28.03 ug/L	99
76) sec-Butylbenzene	18.60	105	447475	27.95 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	163566	25.97 ug/L	95
78) 1,4-Dichlorobenzene	18.80	146	162611	26.33 ug/L	97
79) p-Isopropyltoluene	18.86	119	338826	28.25 ug/L	97
80) 1,2-Dichlorobenzene	19.27	146	134343	26.20 ug/L	98
81) n-Butylbenzene	19.39	91	305770	26.58 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.85	75	8419	32.98 ug/L	91
83) 1,2,4-Trichlorobenzene	21.50	180	76760	27.92 ug/L	97
84) Napthalene	21.82	128	124792	28.37 ug/L	98
85) Hexachlorobutadiene	21.88	225	66120	35.78 ug/L	97
86) 1,2,3-Trichlorobenzene	22.08	180	62920	28.40 ug/L	98

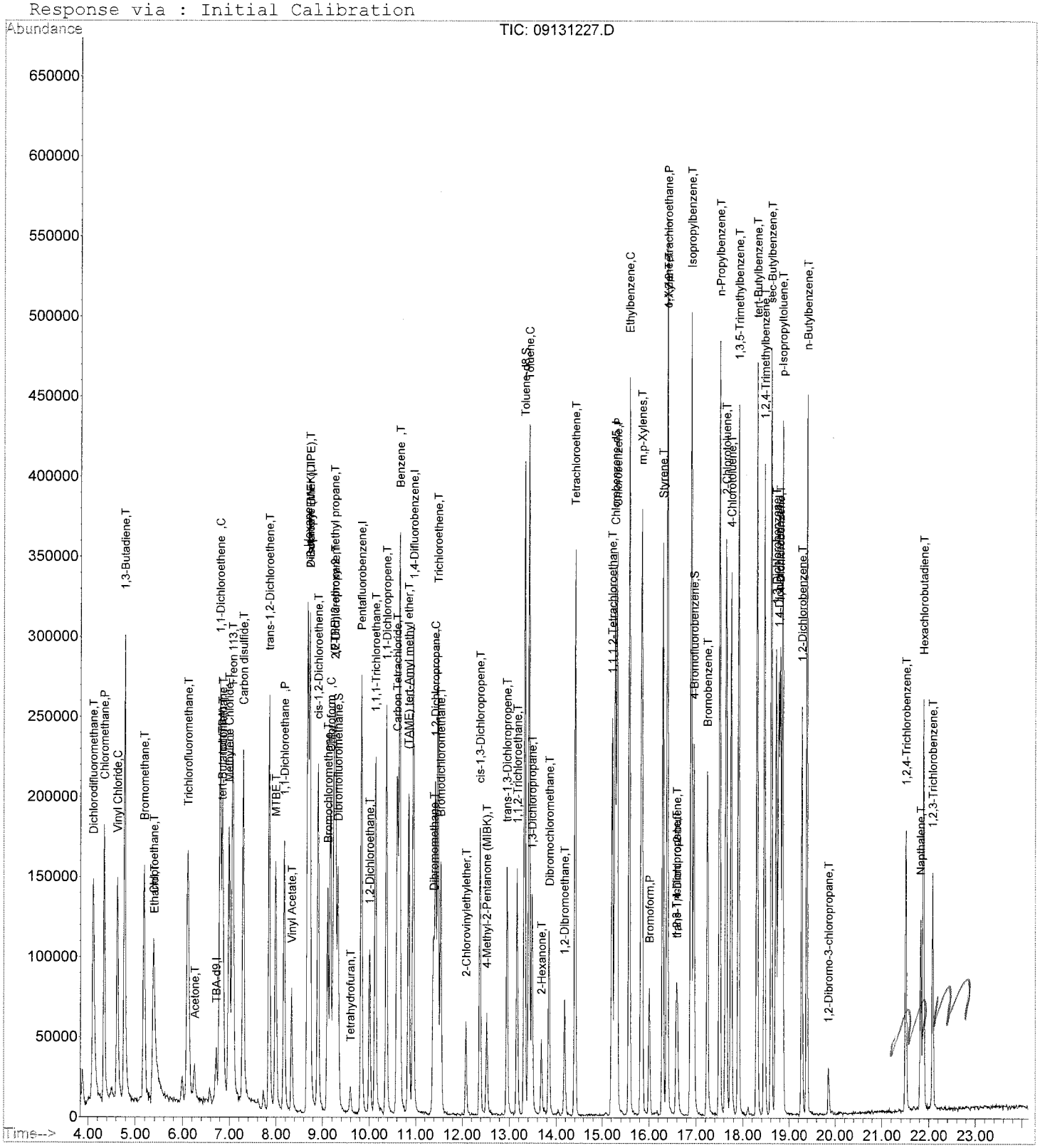
MM

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131227.D Vial: 4
Acq On : 13 Sep 2012 6:34 pm Operator: MNM
Sample : 12I0465-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:40 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131228.D Vial: 5
Acq On : 13 Sep 2012 7:09 pm Operator: MNM
Sample : 12I0465-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:43 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	58496	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	244654	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	333607	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	244722	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	93232	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	113343	26.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.96%	
48) Toluene-d8	13.31	98	329314	25.00 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.00%	
62) 4-Bromofluorobenzene	16.95	95	97298	25.73 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.92%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	146000	4629.49 ug/L #	64
3) tert-Butanol (TBA)	6.82	59	237	0.69 ug/L #	1
8) 1,3-Butadiene	4.79	54	544	0.13 ug/L #	1
9) Bromomethane	5.21	94	1223	0.25 ug/L #	72
12) Acetone	6.26	43	2375	2.31 ug/L	94
14) 1,1-Dichloroethene	6.79	96	617	0.13 ug/L #	37
15) Methylene Chloride	6.96	84	1606	0.37 ug/L #	67
18) trans-1,2-Dichloroethene	7.85	96	515	0.09 ug/L #	32
22) n-Hexane	8.69	86	143	0.10 ug/L	85
31) Tetrahydrofuran	9.58	72	90	0.28 ug/L #	1
37) Carbon Tetrachloride	10.60	117	575	0.10 ug/L #	26
51) 1,3-Dichloropropane	13.33	76	3907	0.90 ug/L	100
67) trans-1,4-Dichloro-2-buten	16.79	53	109	1.19 ug/L #	51
82) 1,2-Dibromo-3-chloropropan	19.73	75	114	0.62 ug/L #	1
83) 1,2,4-Trichlorobenzene	21.51	180	556	0.21 ug/L #	81
84) Napthalene	21.83	128	1150	0.27 ug/L #	68

WNT

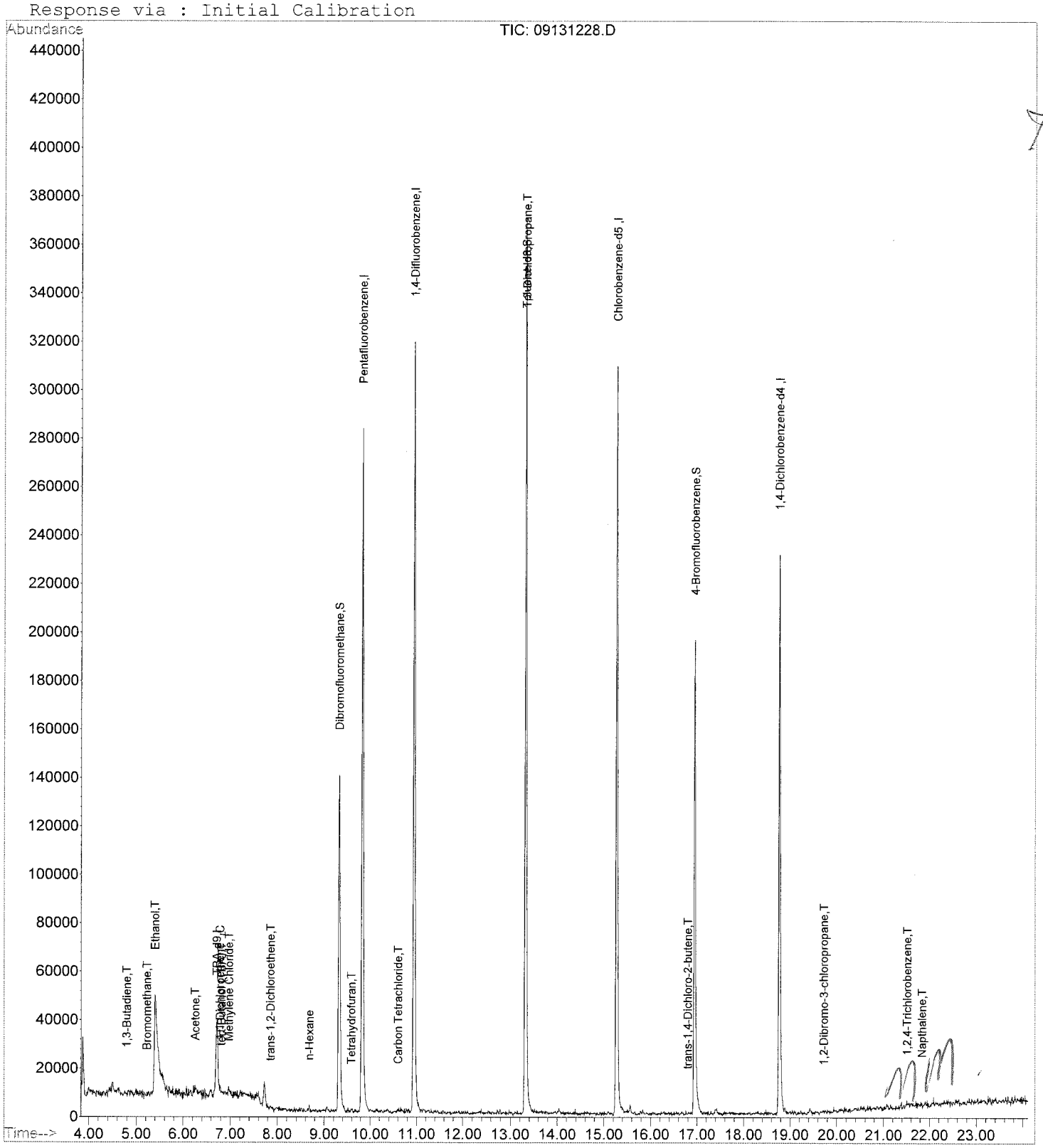
MM 9/14/12

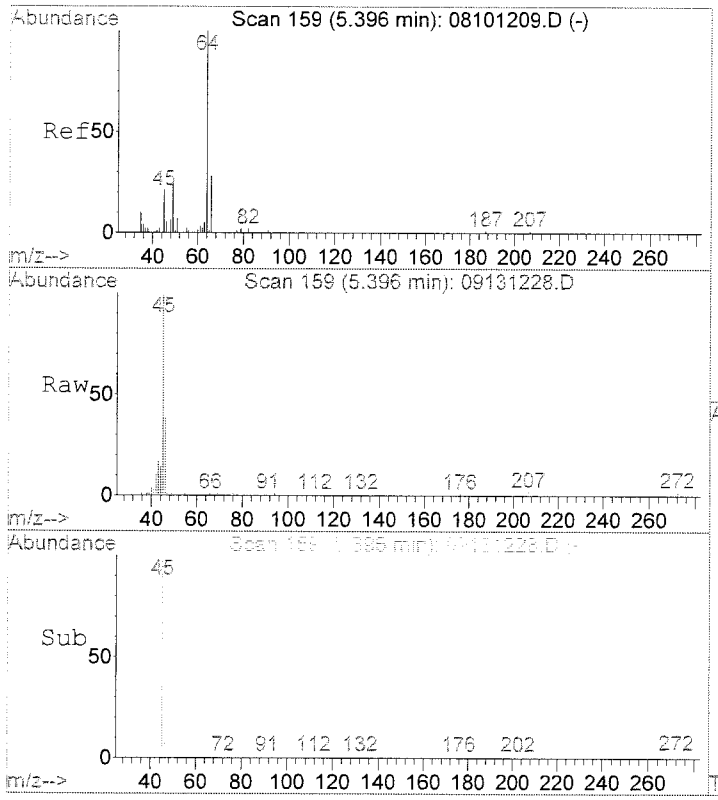
(#) = qualifier out of range (m) = manual integration
09131228.D 081012.M Fri Sep 14 06:43:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131228.D Vial: 5
Acq On : 13 Sep 2012 7:09 pm Operator: MNM
Sample : 12I0465-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:43 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

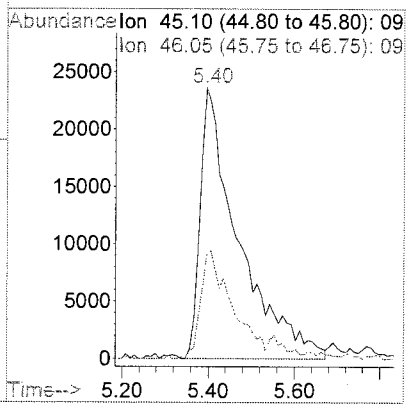


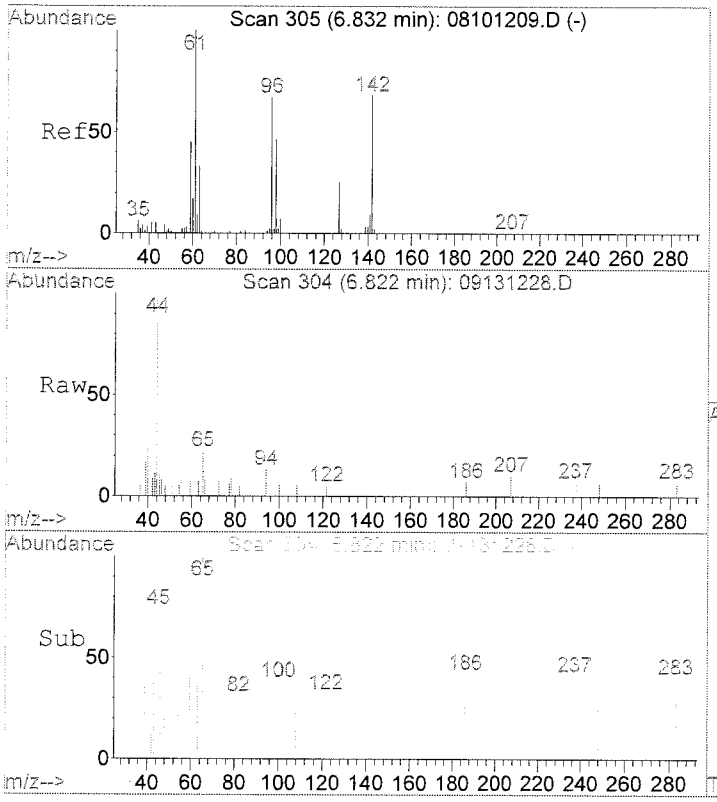


#2
Ethanol
Concen: 4629.49 ug/L
RT: 5.40 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 45 Resp: 146000

Ion	Ratio	Lower	Upper
45	100		
46	32.6	39.9	79.9#

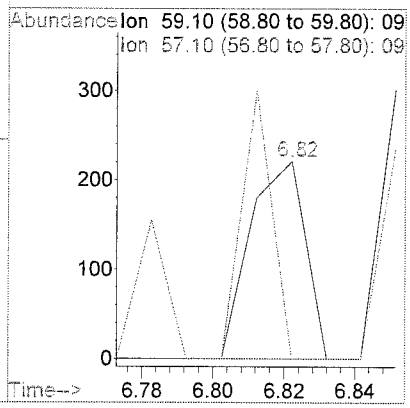


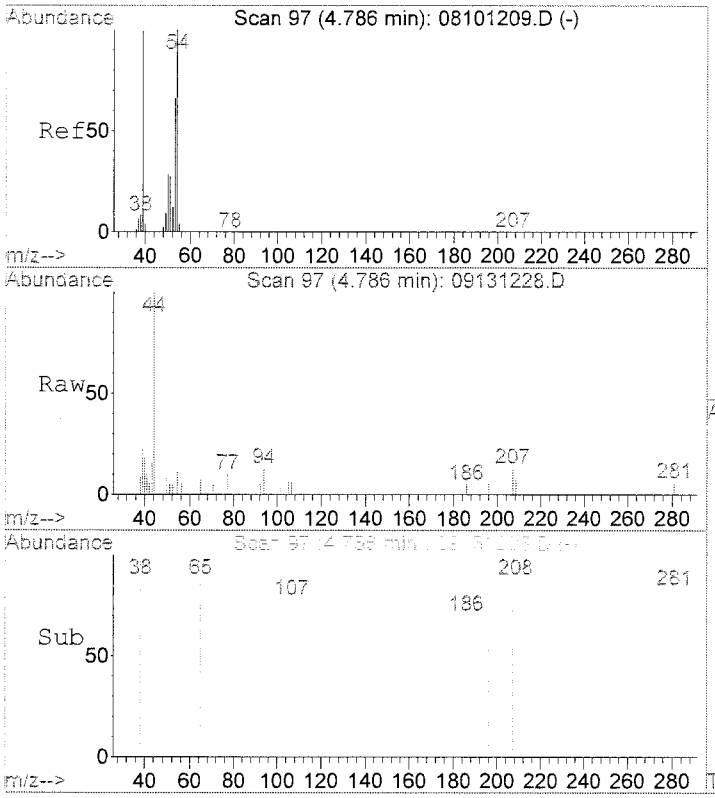


#3
tert-Butanol (TBA)
Concen: 0.69 ug/L
RT: 6.82 min Scan# 304
Delta R.T. -0.01 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 59 Resp: 237

Ion	Ratio	Lower	Upper
59	100		
57	74.7	6.4	9.6#

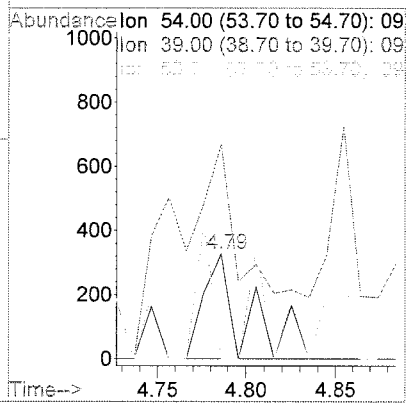


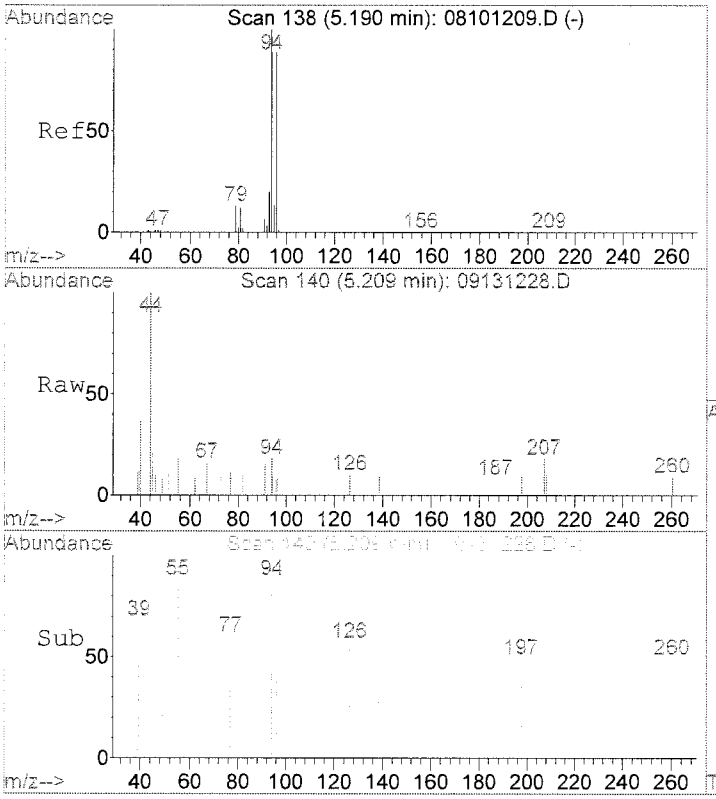


#8
1,3-Butadiene
Concen: 0.13 ug/L
RT: 4.79 min Scan# 97
Delta R.T. -0.00 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 54 Resp: 544

Ion	Ratio	Lower	Upper
54	100		
39	382.0	86.0	129.0#
53	45.2	56.2	84.4#

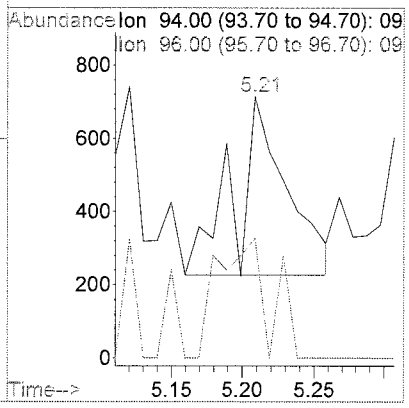


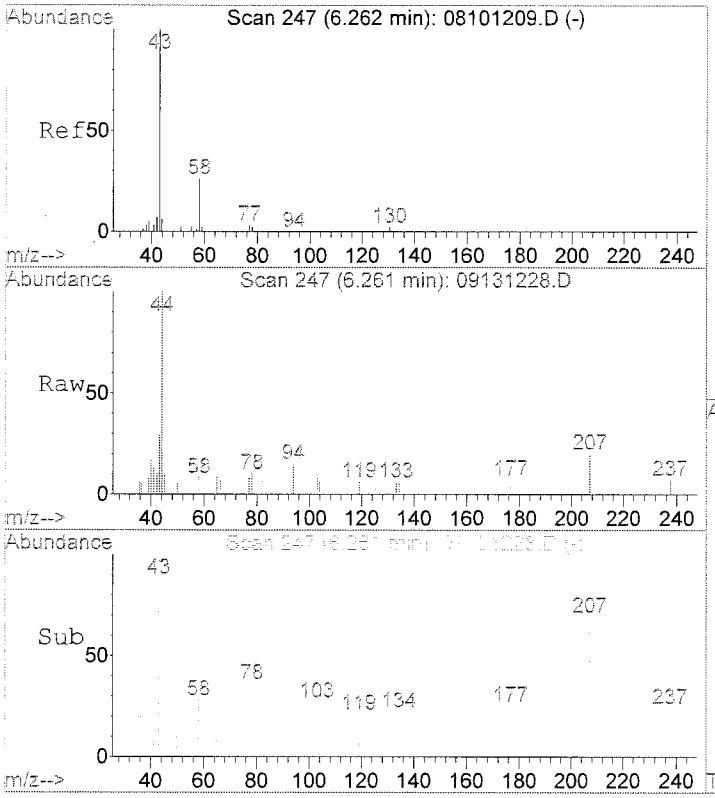


#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.21 min Scan# 140
Delta R.T. 0.02 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 94 Resp: 1223

Ion	Ratio	Lower	Upper
94	100		
96	67.8	75.8	113.6#

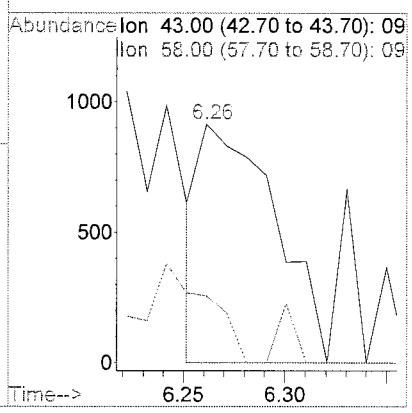


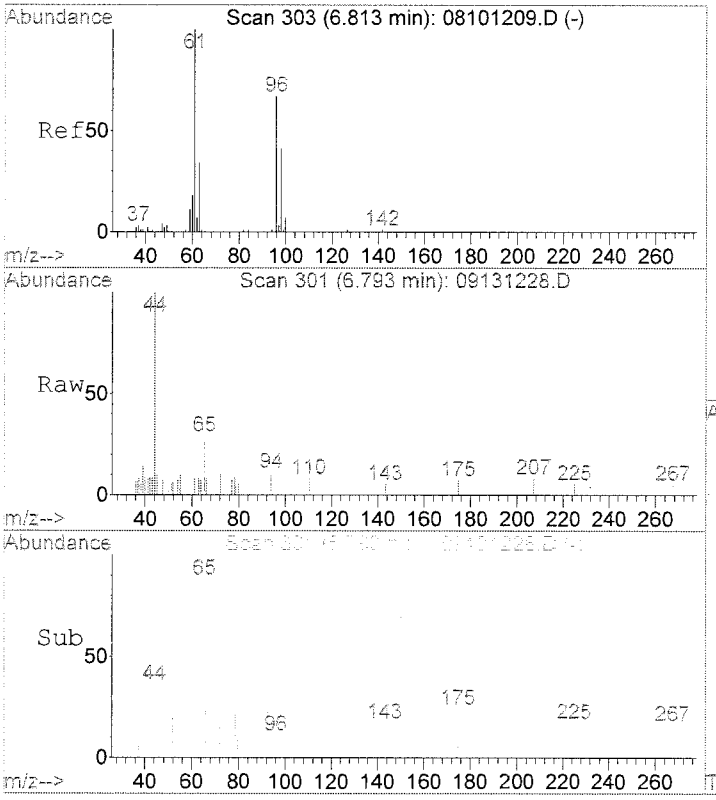


#12
Acetone
Concen: 2.31 ug/L
RT: 6.26 min Scan# 247
Delta R.T. -0.00 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 43 Resp: 2375

Ion	Ratio	Lower	Upper
43	100		
58	35.6	25.9	38.9

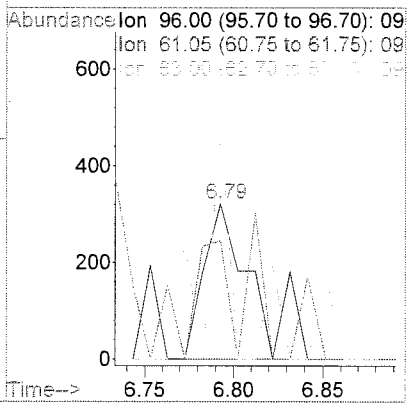




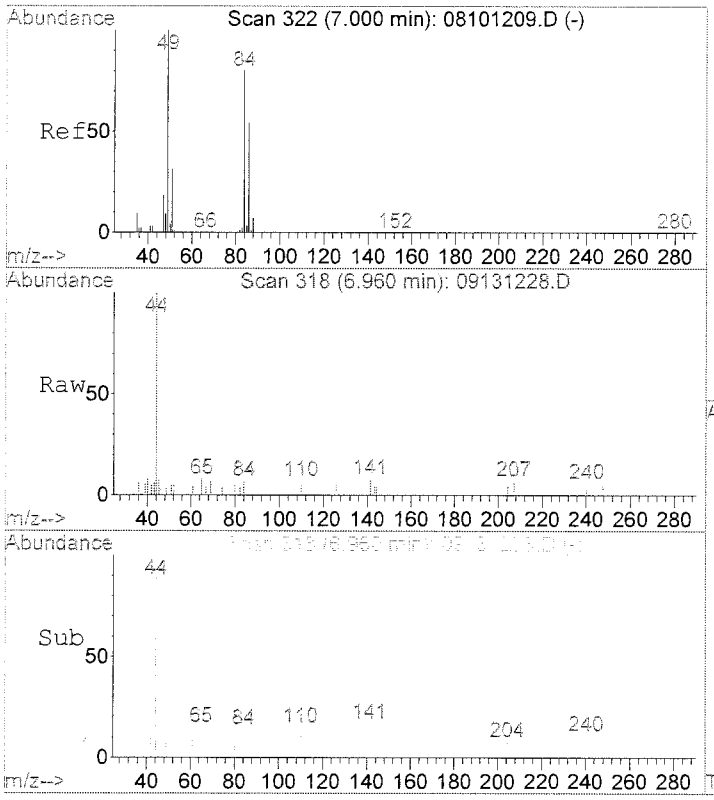
#14
1,1-Dichloroethene
Concen: 0.13 ug/L
RT: 6.79 min Scan# 301
Delta R.T. -0.02 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 96 Resp: 617

Ion	Ratio	Lower	Upper
96	100		
61	60.3	128.0	192.0#
63	69.0	41.2	61.8#



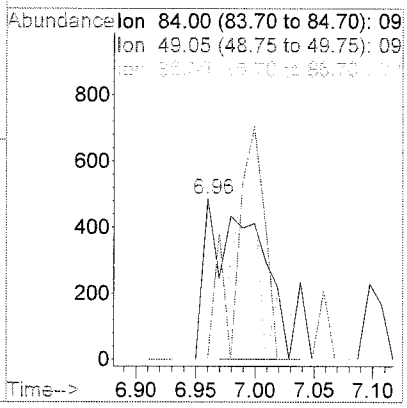
MM

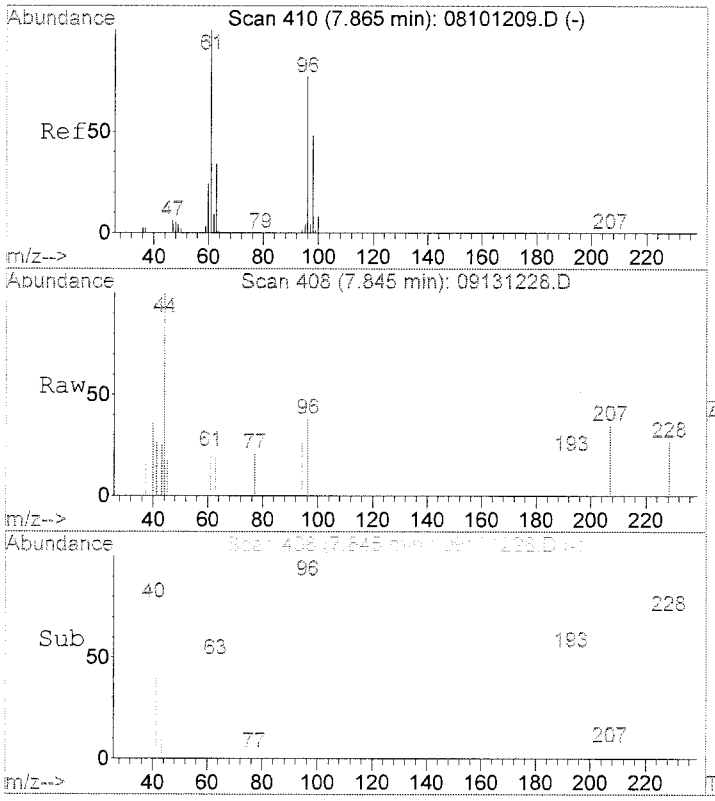


#15
Methylene Chloride
Concen: 0.37 ug/L
RT: 6.96 min Scan# 318
Delta R.T. -0.04 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 84 Resp: 1606

Ion	Ratio	Lower	Upper
84	100		
49	74.1	103.4	155.0#
86	61.5	52.0	78.0

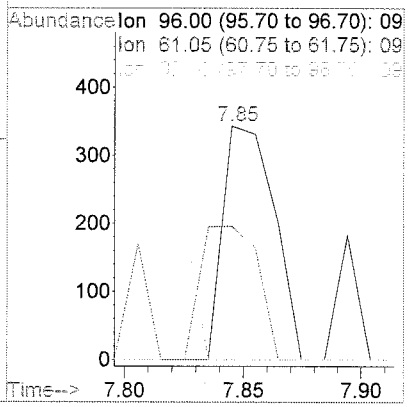




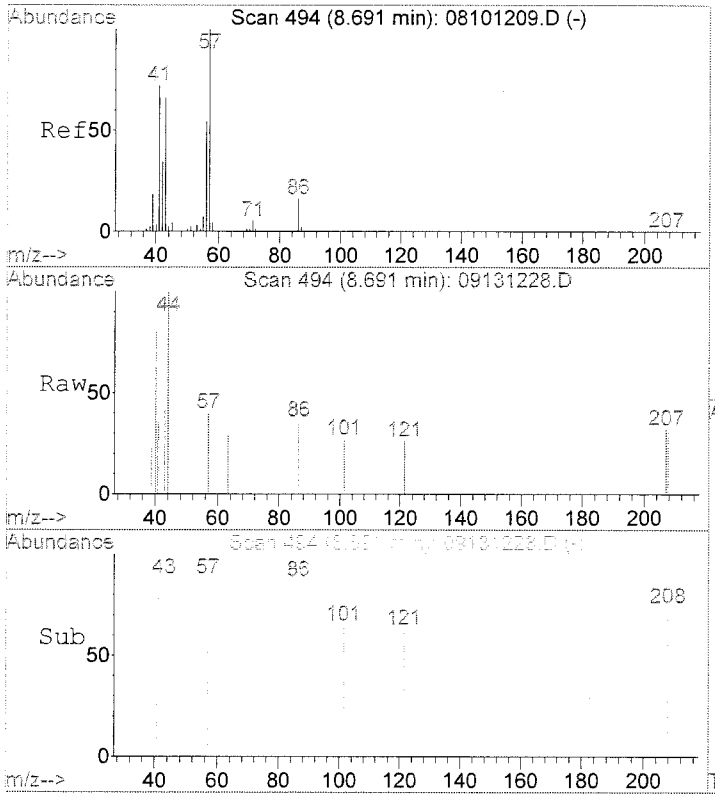
#18
trans-1,2-Dichloroethene
Concen: 0.09 ug/L
RT: 7.85 min Scan# 408
Delta R.T. -0.02 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 96 Resp: 515

Ion	Ratio	Lower	Upper
96	100		
61	63.7	111.4	167.0#
98	0.0	51.4	77.2#



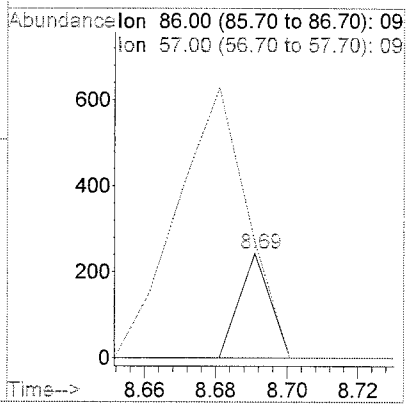
MM

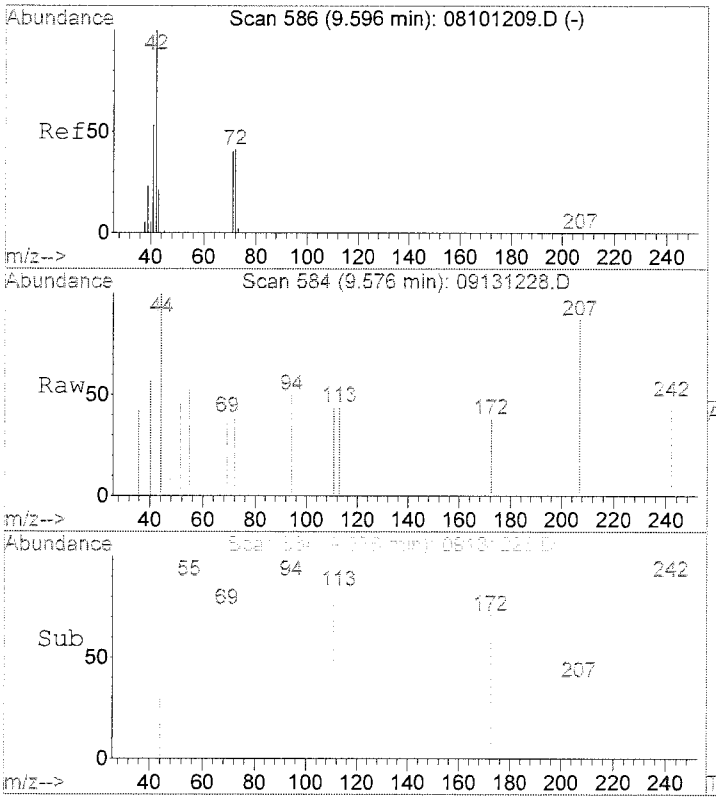


#22
n-Hexane
Concen: 0.10 ug/L
RT: 8.69 min Scan# 494
Delta R.T. -0.00 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 86 Resp: 143

Ion	Ratio	Lower	Upper
86	100		
57	602.8	522.5	783.7

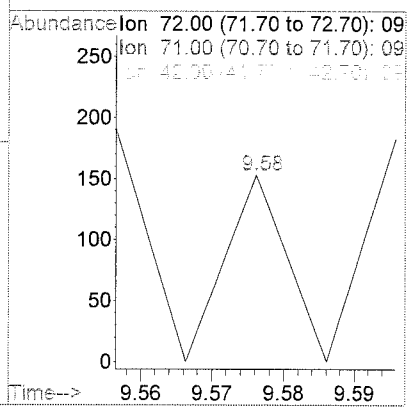


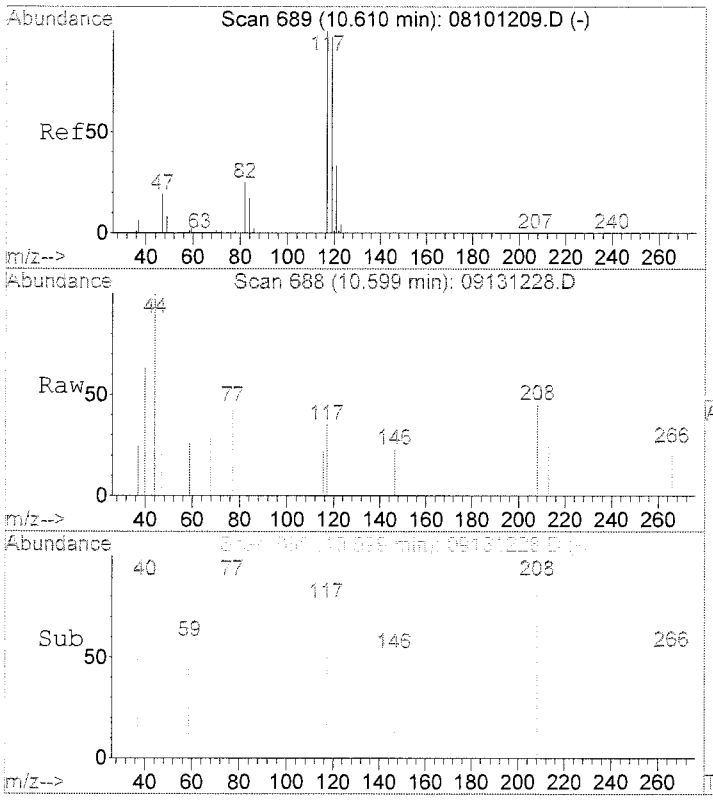


#31
Tetrahydrofuran
Concen: 0.28 ug/L
RT: 9.58 min Scan# 584
Delta R.T. -0.02 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 72 Resp: 90

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	0.0	217.1	325.7#

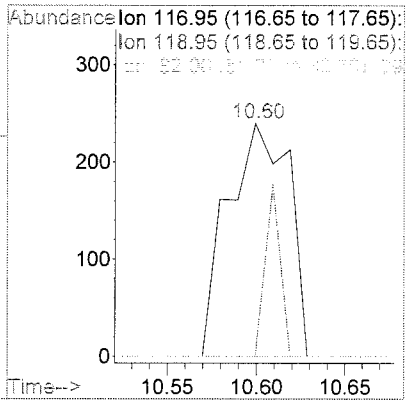


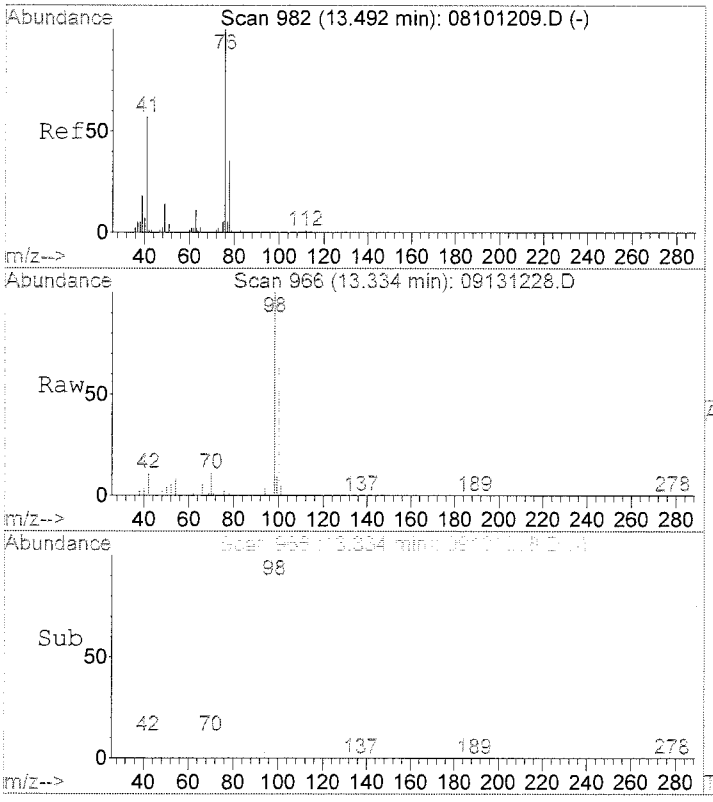


#37
Carbon Tetrachloride
Concen: 0.10 ug/L
RT: 10.60 min Scan# 688
Delta R.T. -0.01 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion:117 Resp: 575

Ion	Ratio	Lower	Upper
117	100		
119	18.1	77.9	116.9#
82	0.0	19.6	29.4#

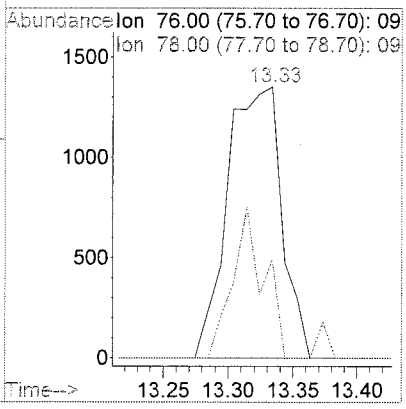


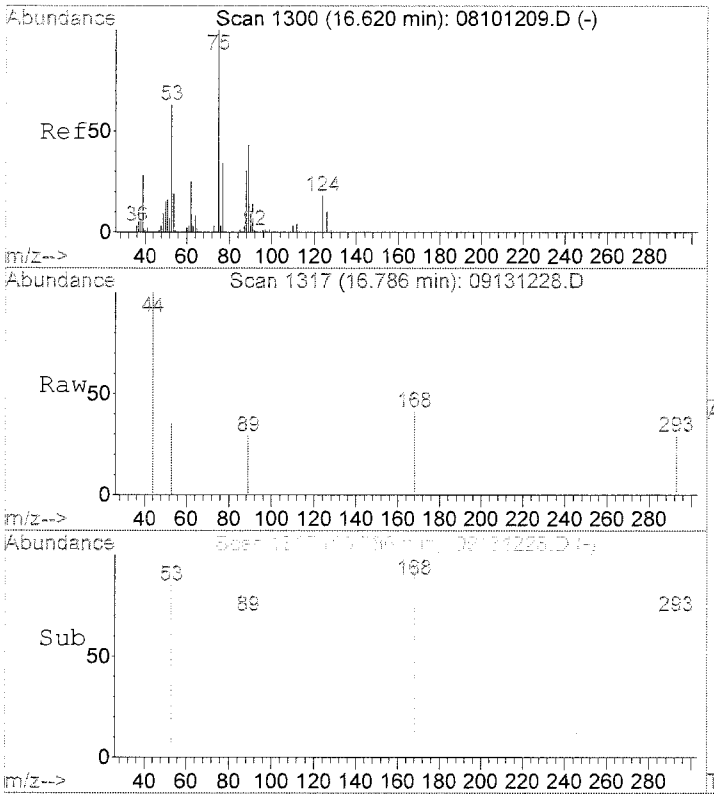


#51
1,3-Dichloropropane
Concen: 0.90 ug/L
RT: 13.33 min Scan# 966
Delta R.T. -0.16 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 76 Resp: 3907

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1

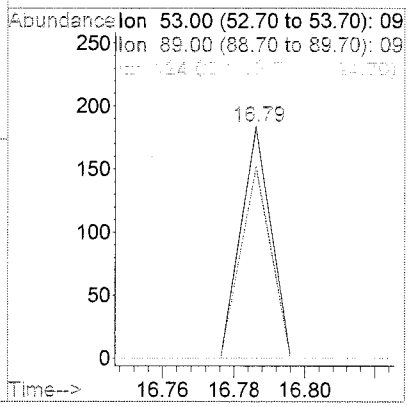


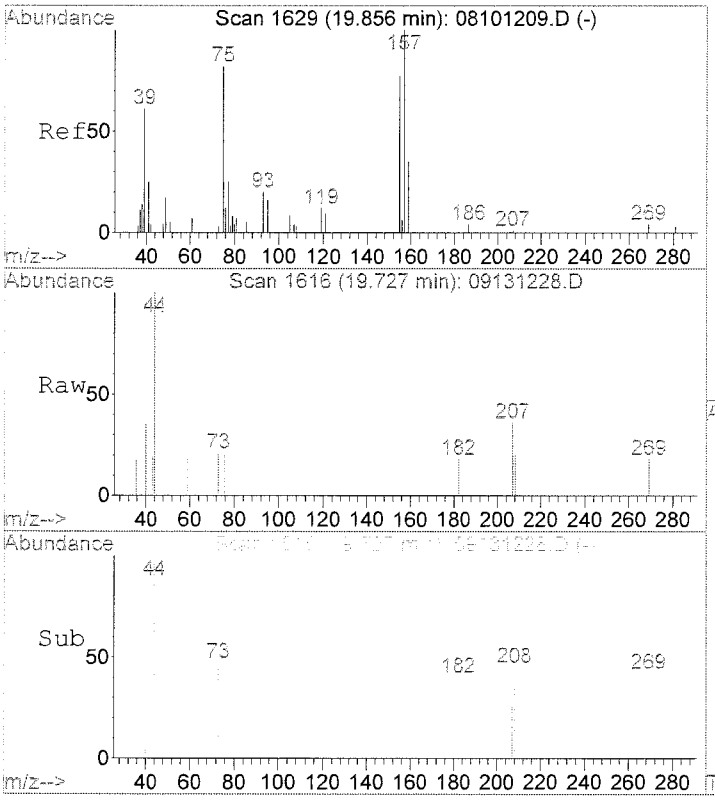


#67
trans-1,4-Dichloro-2-butene
Concen: 1.19 ug/L
RT: 16.79 min Scan# 1317
Delta R.T. 0.17 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 53 Resp: 109

Ion	Ratio	Lower	Upper
53	100		
89	82.6	50.5	75.7#
124	81.7	21.8	32.8#

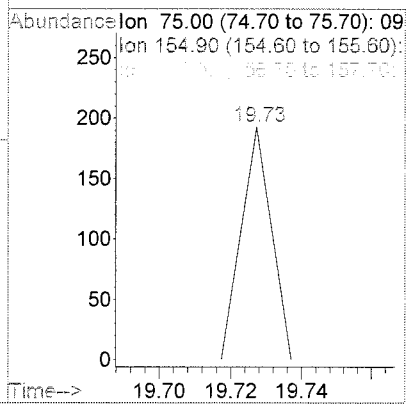


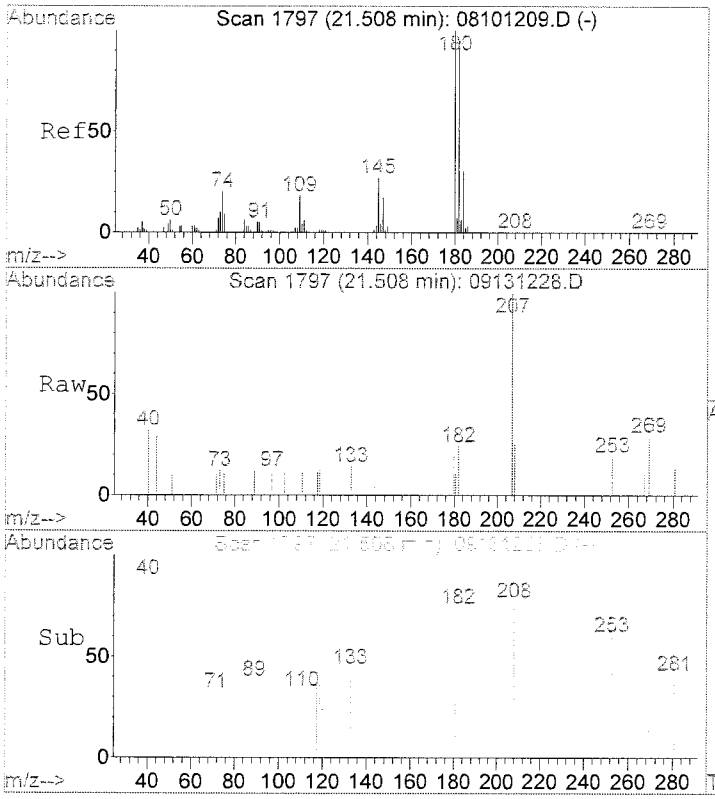


#82
1,2-Dibromo-3-chloropropane
Concen: 0.62 ug/L
RT: 19.73 min Scan# 1616
Delta R.T. -0.13 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion: 75 Resp: 114

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

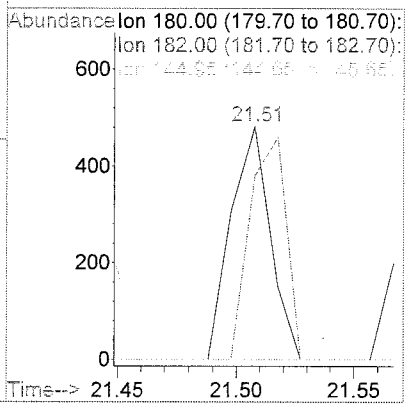


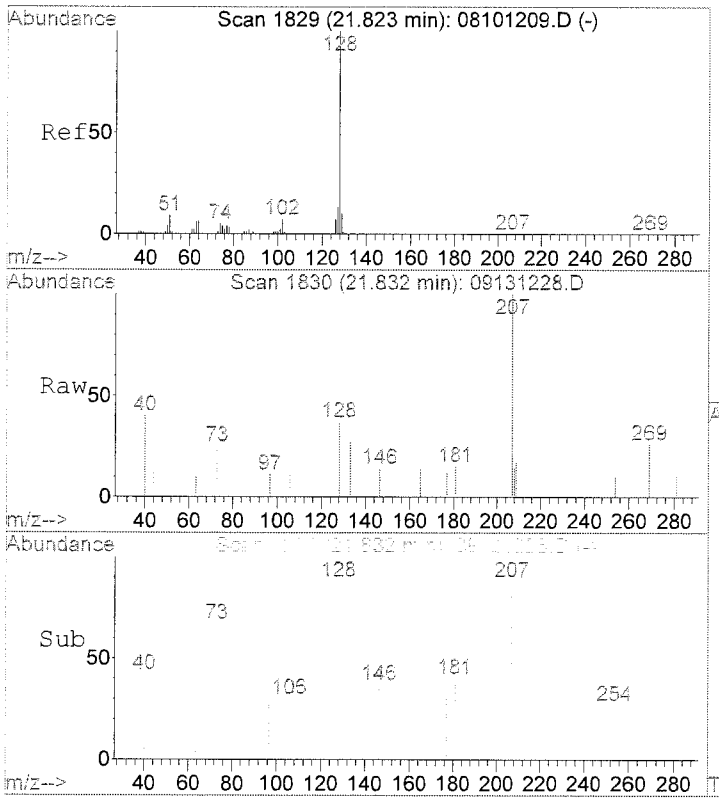


#83
1,2,4-Trichlorobenzene
Concen: 0.21 ug/L
RT: 21.51 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion:180 Resp: 556

Ion	Ratio	Lower	Upper
180	100		
182	89.2	77.9	116.9
145	0.0	22.8	34.2#

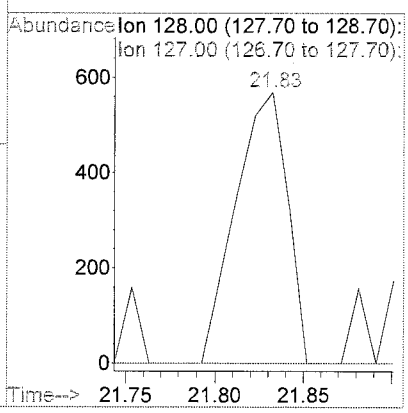




#84
Napthalene
Concen: 0.27 ug/L
RT: 21.83 min Scan# 1830
Delta R.T. 0.01 min
Lab File: 09131228.D
Acq: 13 Sep 2012 7:09 pm

Tgt Ion:128 Resp: 1150

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131232.D Vial: 9
Acq On : 13 Sep 2012 9:20 pm Operator: MNM
Sample : PVI0635-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:44 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

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Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	58091	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	248589	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	340052	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	243998	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	91434	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	112896	25.97 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.88%	
48) Toluene-d8	13.31	98	335574	24.99 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 99.96%	
62) 4-Bromofluorobenzene	16.94	95	101155	26.83 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.32%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	125025	3992.03 ug/L #	71
3) tert-Butanol (TBA)	6.83	59	332	0.98 ug/L #	1
9) Bromomethane	5.27	94	1233	0.25 ug/L #	2
12) Acetone	6.24	43	6522	6.23 ug/L #	66
15) Methylene Chloride	6.97	84	1623	0.36 ug/L #	73
23) 2-Butanone (MEK)	8.67	72	91	0.25 ug/L #	1
31) Tetrahydrofuran	9.59	72	94	0.29 ug/L #	25
51) 1,3-Dichloropropane	13.32	76	4198	0.97 ug/L	95 unt
66) 1,2,3-Trichloropropane	16.71	110	104	0.18 ug/L #	35
67) trans-1,4-Dichloro-2-buten	16.61	53	110	1.20 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.85	75	97	0.56 ug/L #	1
86) 1,2,3-Trichlorobenzene	21.98	180	132	Below Cal #	11

MM
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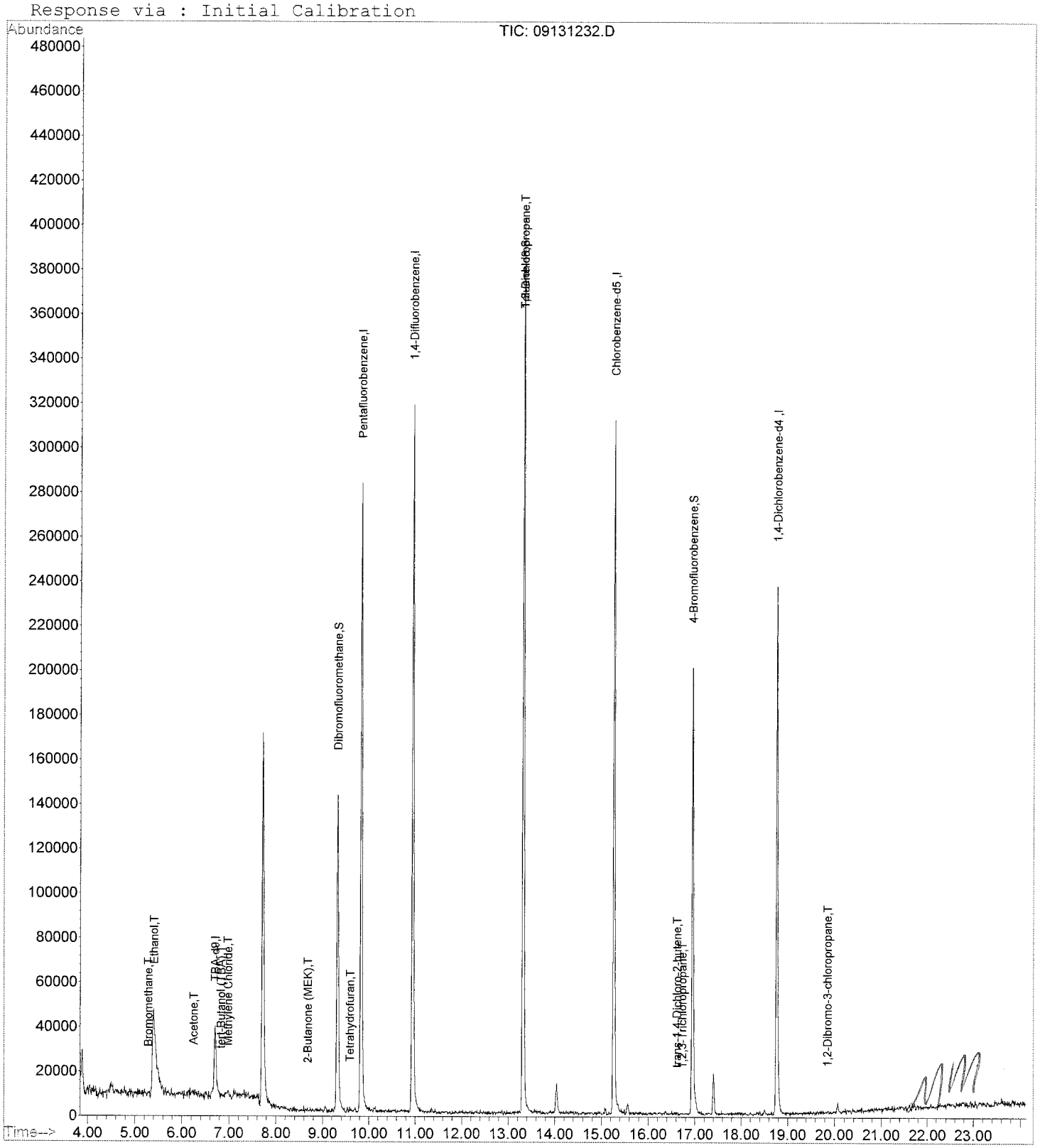
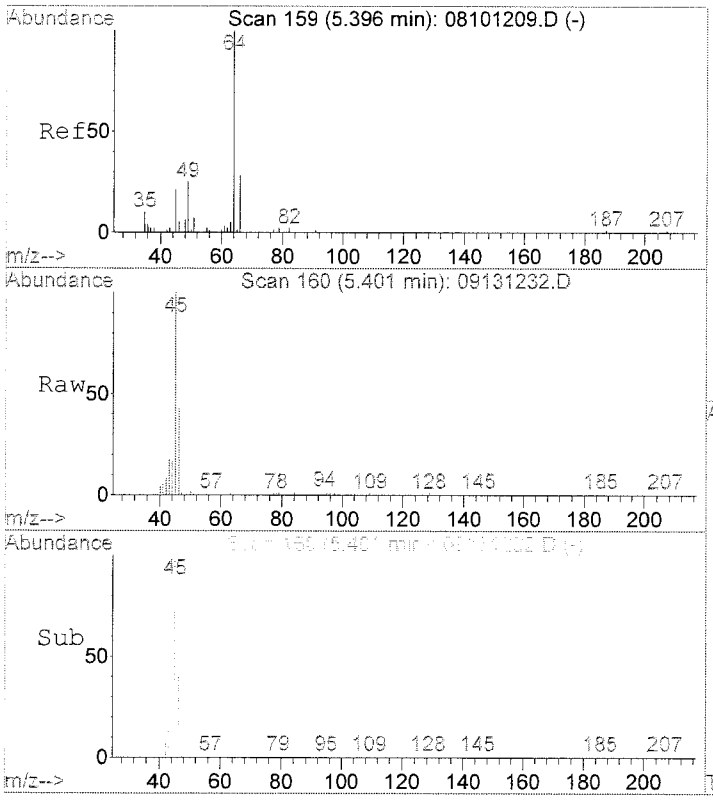
(#) = qualifier out of range (m) = manual integration
09131232.D 081012.M Fri Sep 14 06:45:01 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131232.D Vial: 9
Acq On : 13 Sep 2012 9:20 pm Operator: MNM
Sample : PVI0635-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:44 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

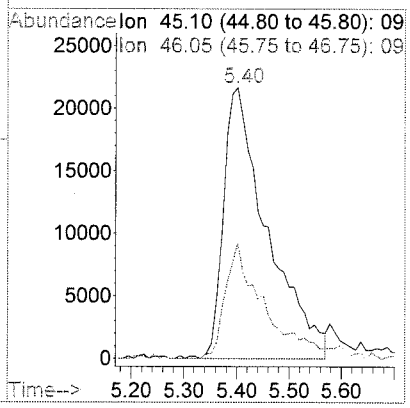


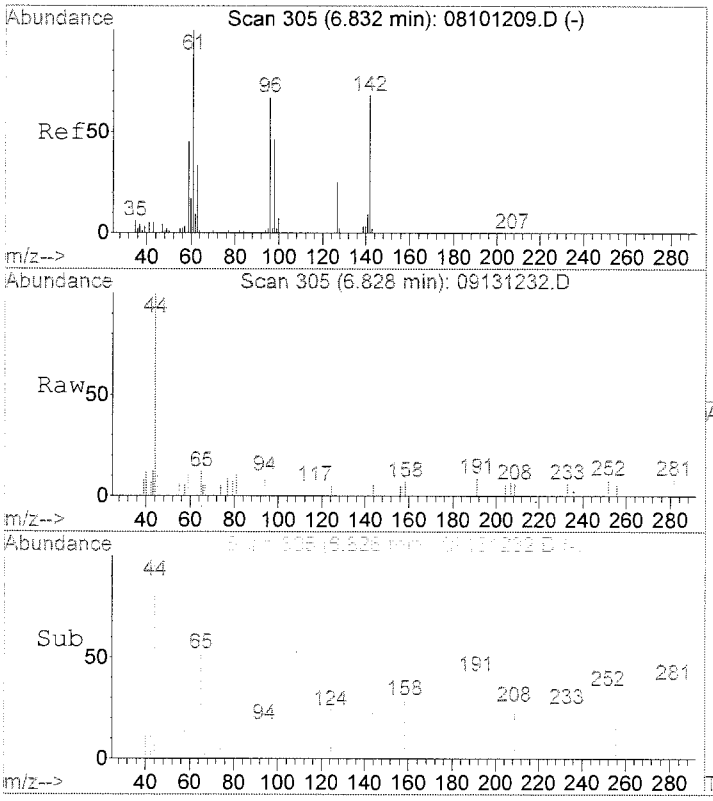


#2
Ethanol
Concen: 3992.03 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 45 Resp: 125025

Ion	Ratio	Lower	Upper
45	100		
46	37.6	39.9	79.9#

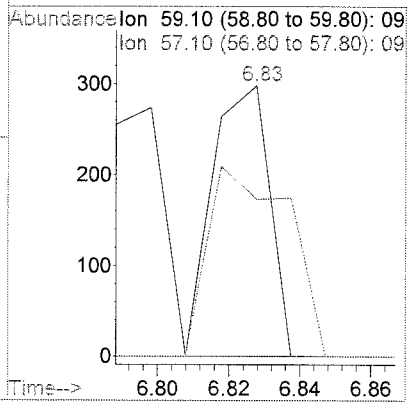


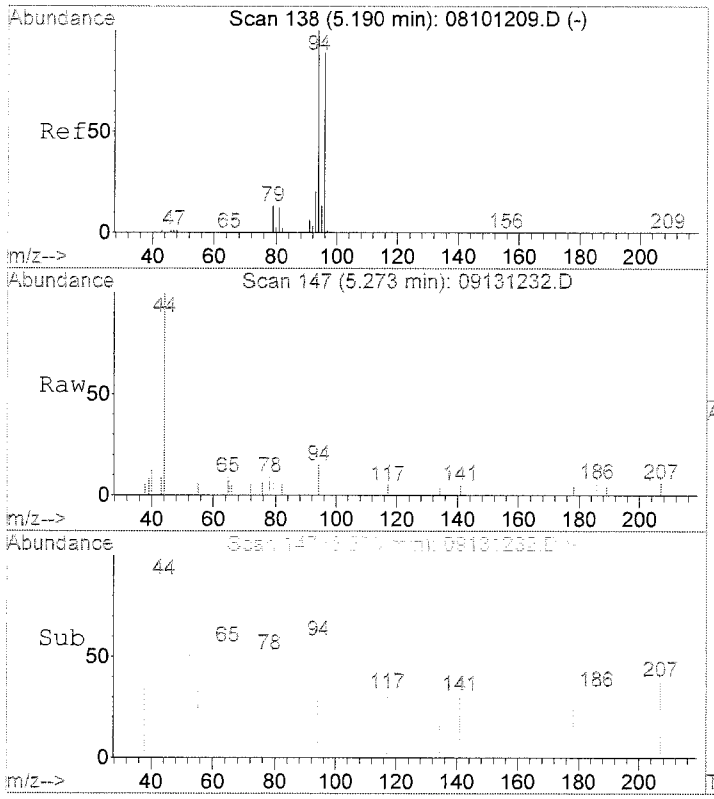


#3
tert-Butanol (TBA)
Concen: 0.98 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 59 Resp: 332

Ion	Ratio	Lower	Upper
59	100		
57	98.8	6.4	9.6#

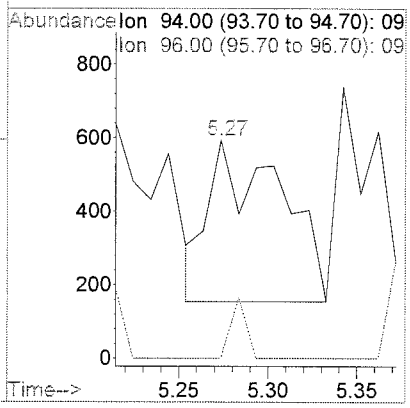


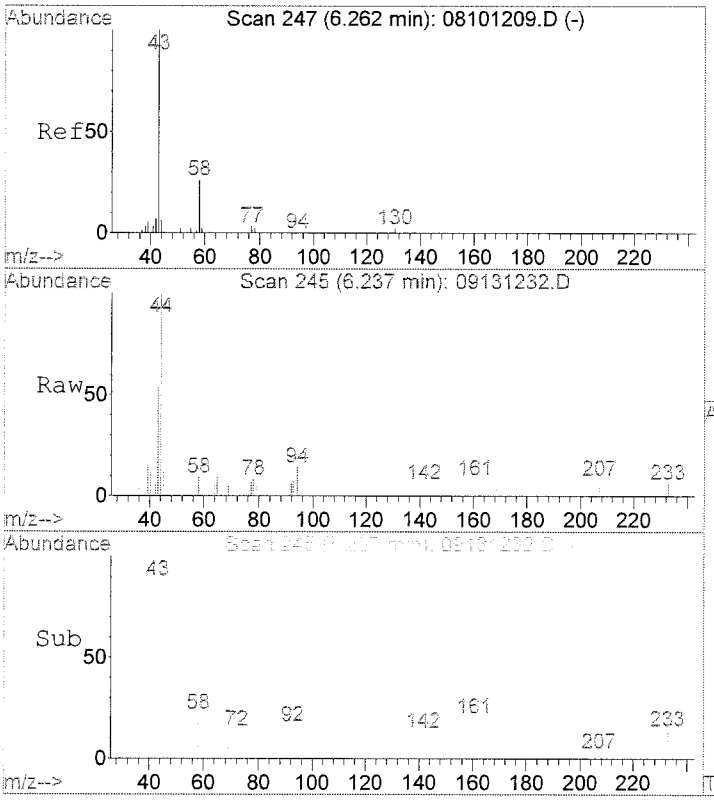


#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.27 min Scan# 147
Delta R.T. 0.08 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 94 Resp: 1233

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

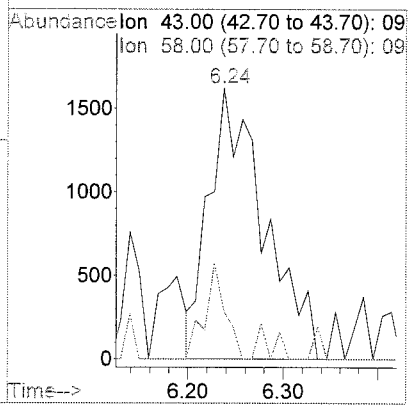


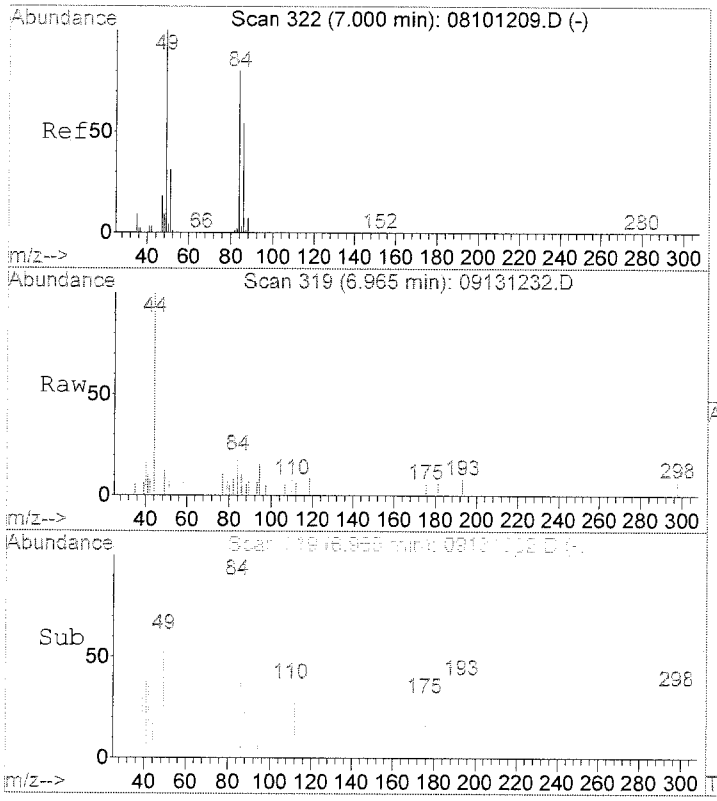


#12
Acetone
Concen: 6.23 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 43 Resp: 6522

Ion	Ratio	Lower	Upper
43	100		
58	13.2	25.9	38.9#

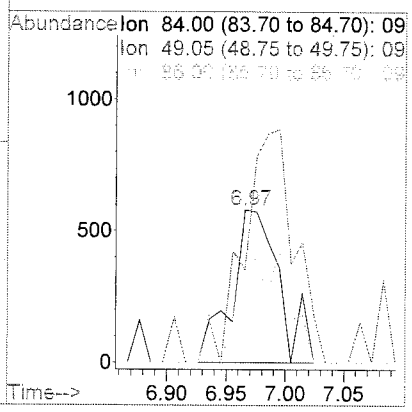


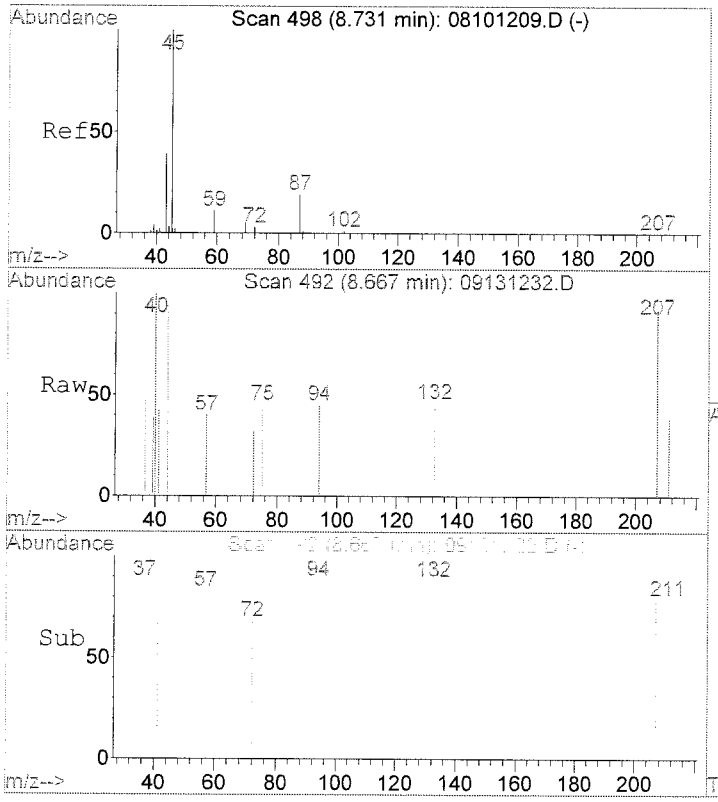


#15
Methylene Chloride
Concen: 0.36 ug/L
RT: 6.97 min Scan# 319
Delta R.T. -0.03 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 84 Resp: 1623

Ion	Ratio	Lower	Upper
84	100		
49	163.0	103.4	155.0#
86	83.0	52.0	78.0#

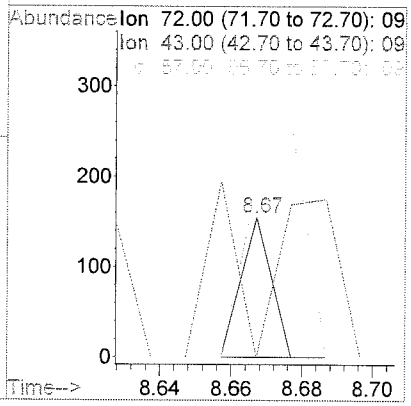


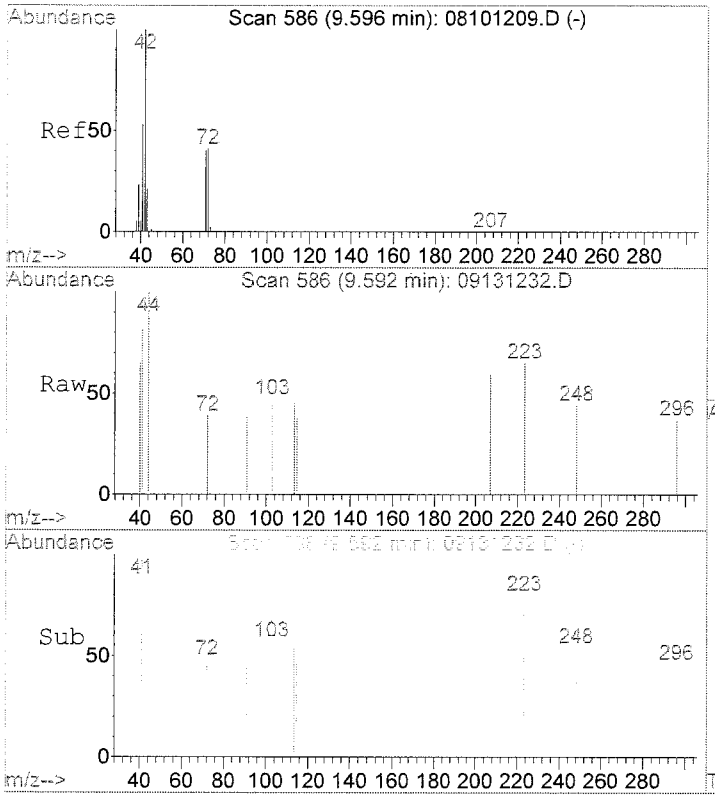


#23
2-Butanone (MEK)
Concen: 0.25 ug/L
RT: 8.67 min Scan# 492
Delta R.T. -0.06 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 72 Resp: 91

Ion	Ratio	Lower	Upper
72	100		
43	276.9	1366.5	2049.7#
57	291.2	0.0	0.0#

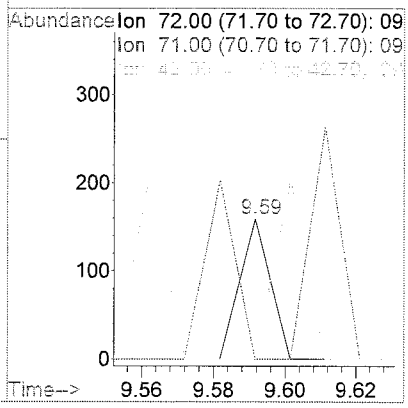


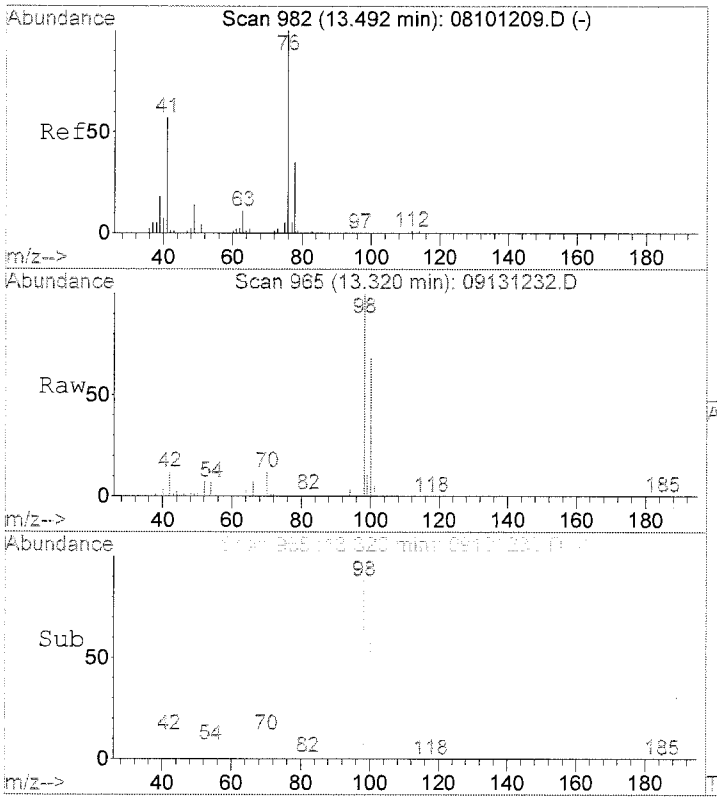


#31
Tetrahydrofuran
Concen: 0.29 ug/L
RT: 9.59 min Scan# 586
Delta R.T. -0.00 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 72 Resp: 94

Ion	Ratio	Lower	Upper
72	100		
71	166.0	79.1	118.7#
42	127.7	217.1	325.7#

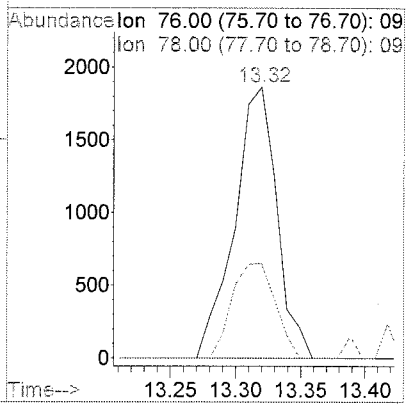


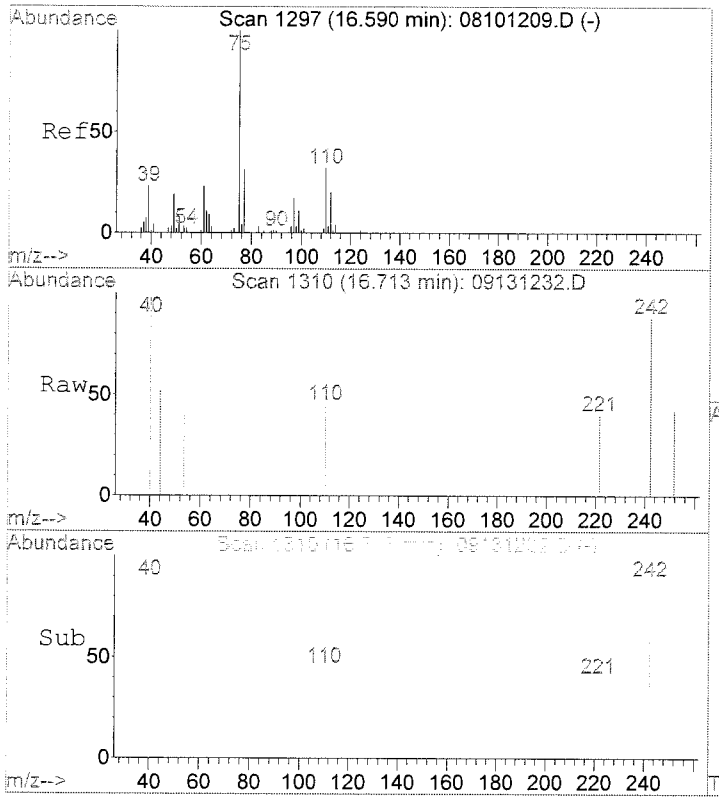


#51
1,3-Dichloropropane
Concen: 0.97 ug/L
RT: 13.32 min Scan# 965
Delta R.T. -0.17 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 76 Resp: 4198

Ion	Ratio	Lower	Upper
76	100		
78	35.7	26.1	39.1

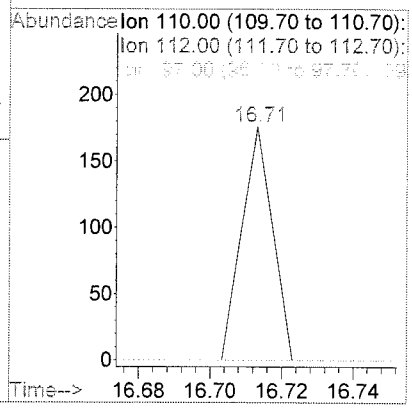


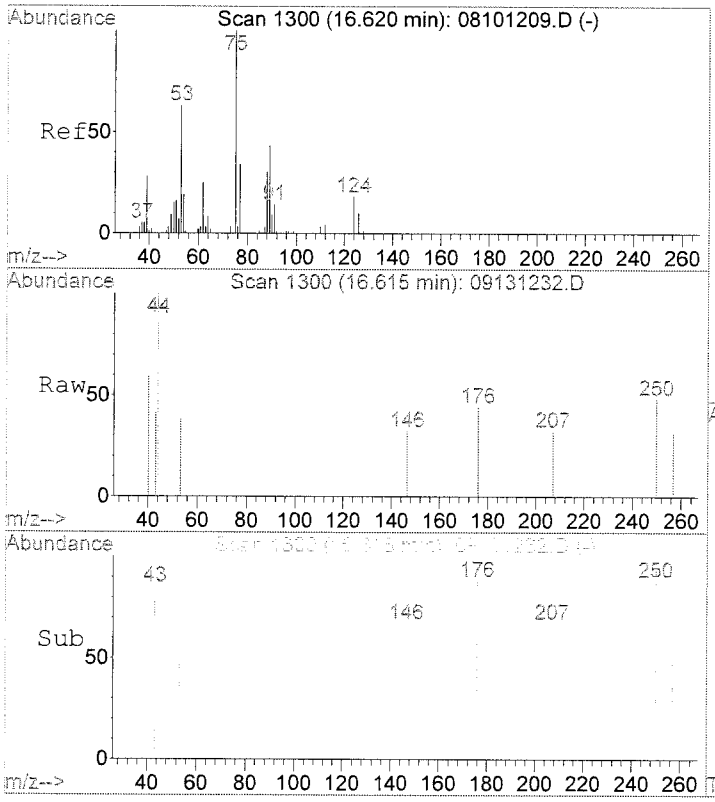


#66
1,2,3-Trichloropropane
Concen: 0.18 ug/L
RT: 16.71 min Scan# 1310
Delta R.T. 0.12 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion:110 Resp: 104

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	85.6	42.2	63.2#

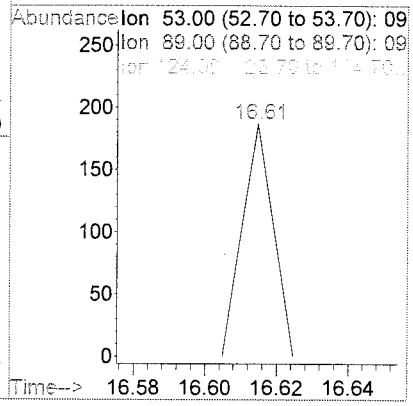


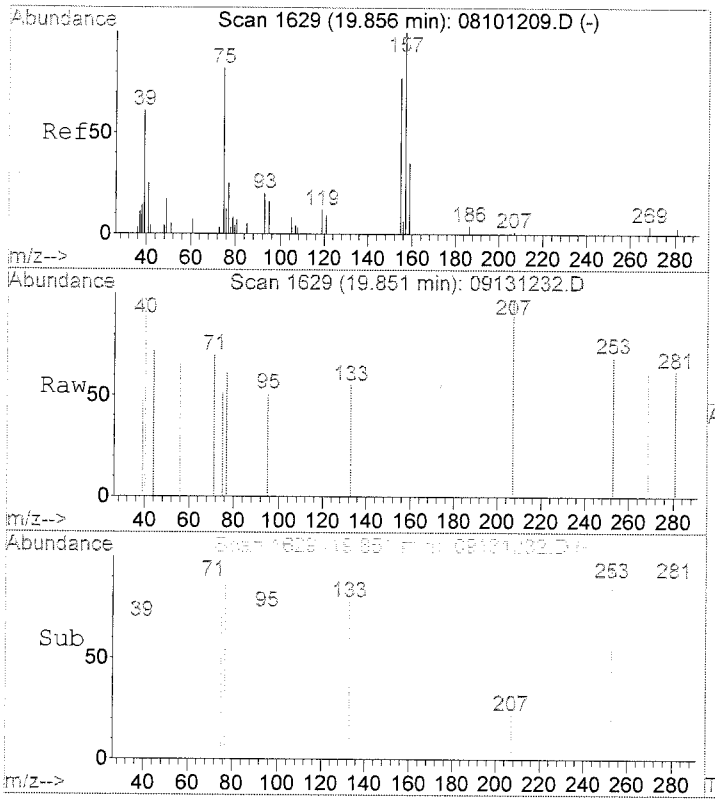


#67
trans-1,4-Dichloro-2-butene
Concen: 1.20 ug/L
RT: 16.61 min Scan# 1300
Delta R.T. -0.00 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 53 Resp: 110

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

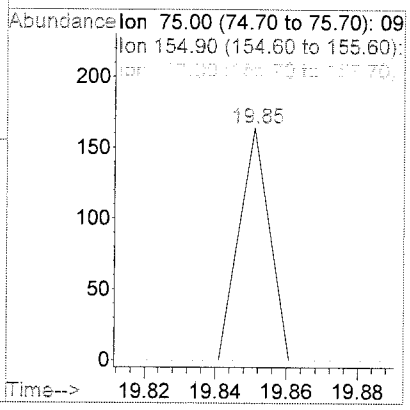


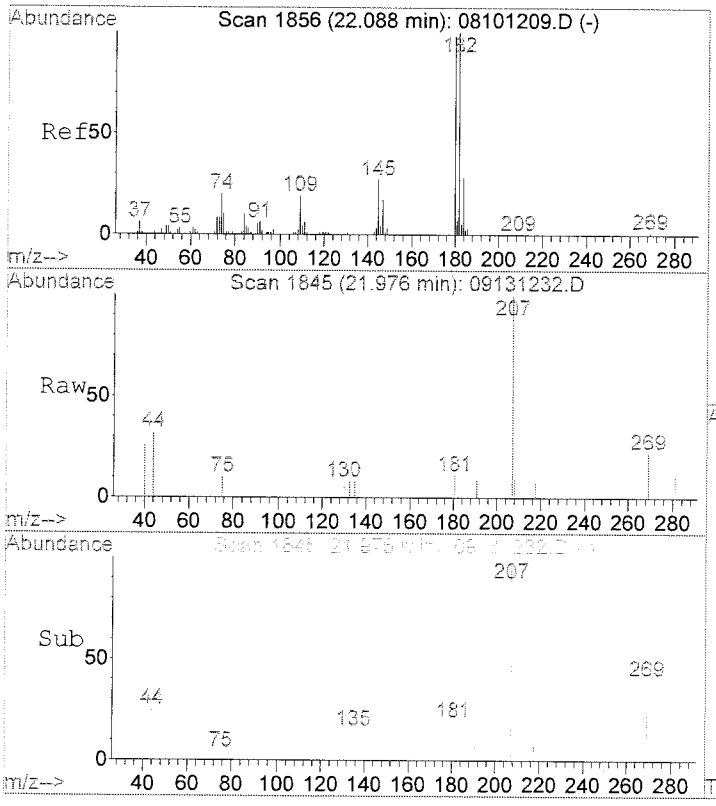


#82
1,2-Dibromo-3-chloropropane
Concen: 0.56 ug/L
RT: 19.85 min Scan# 1629
Delta R.T. -0.00 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion: 75 Resp: 97

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

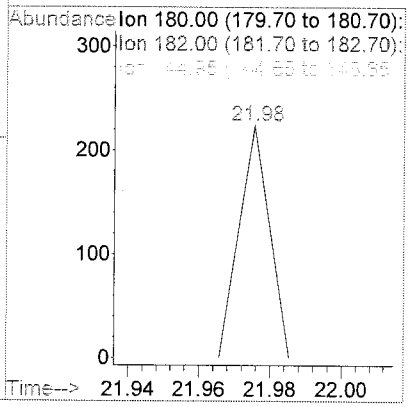




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 21.98 min Scan# 1845
Delta R.T. -0.11 min
Lab File: 09131232.D
Acq: 13 Sep 2012 9:20 pm

Tgt Ion:180 Resp: 132

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131234.D Vial: 11
Acq On : 13 Sep 2012 10:25 pm Operator: MNM
Sample : PVI0635-02 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:46 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	43845	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	226229	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	319007	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.26	117	220985	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	83619	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	111086	28.08 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 112.32%	
48) Toluene-d8	13.31	98	312156	24.78 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 99.12%	
62) 4-Bromofluorobenzene	16.94	95	89313	26.15 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 104.60%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	95118	4023.91 ug/L # LRL	73
3) tert-Butanol (TBA)	6.88	59	122	0.48 ug/L #	1
9) Bromomethane	5.19	94	1044	0.23 ug/L #	2
10) Chloroethane	5.36	64	365	0.10 ug/L #	1
12) Acetone	6.26	43	3554	3.73 ug/L #	55
15) Methylene Chloride	6.98	84	1384	0.34 ug/L #	56
20) 1,1-Dichloroethane	8.15	63	797	0.10 ug/L #	70
25) cis-1,2-Dichloroethene	8.90	96	1288	0.27 ug/L #	48 NSM
27) Chloroform	9.16	83	2570	0.36 ug/L	92 LRL
31) Tetrahydrofuran	9.53	72	109	0.37 ug/L #	32
34) (TAME) tert-Amyl methyl et	10.95	73	2963	0.37 ug/L #	53
41) Trichloroethene	11.48	95	842	0.18 ug/L #	85
47) 1,1,2-Trichloroethane	13.33	97	2376	1.05 ug/L #	1 LLRT
82) 1,2-Dibromo-3-chloropropan	19.86	75	90	0.57 ug/L #	1

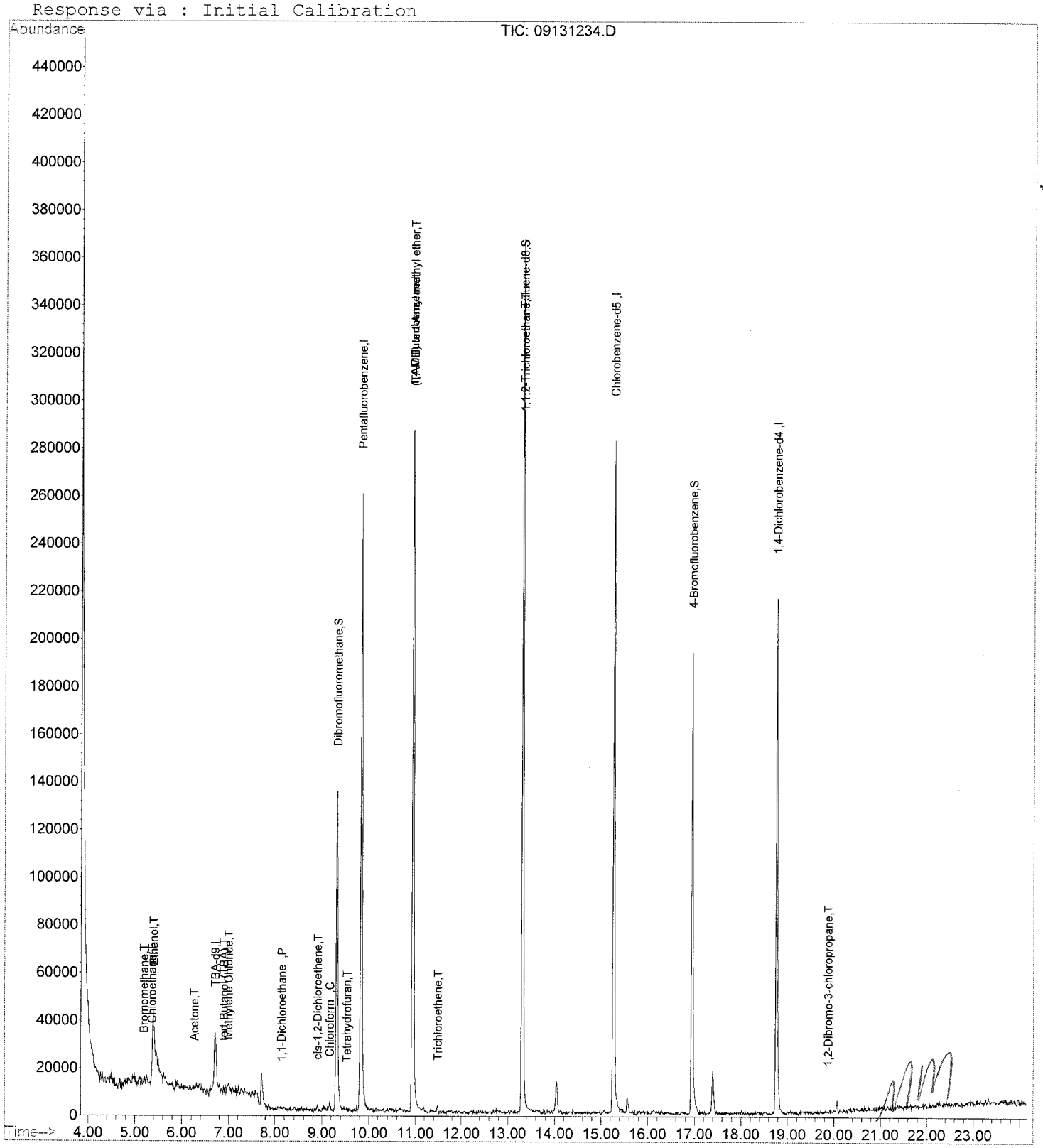
MM
9/14/12

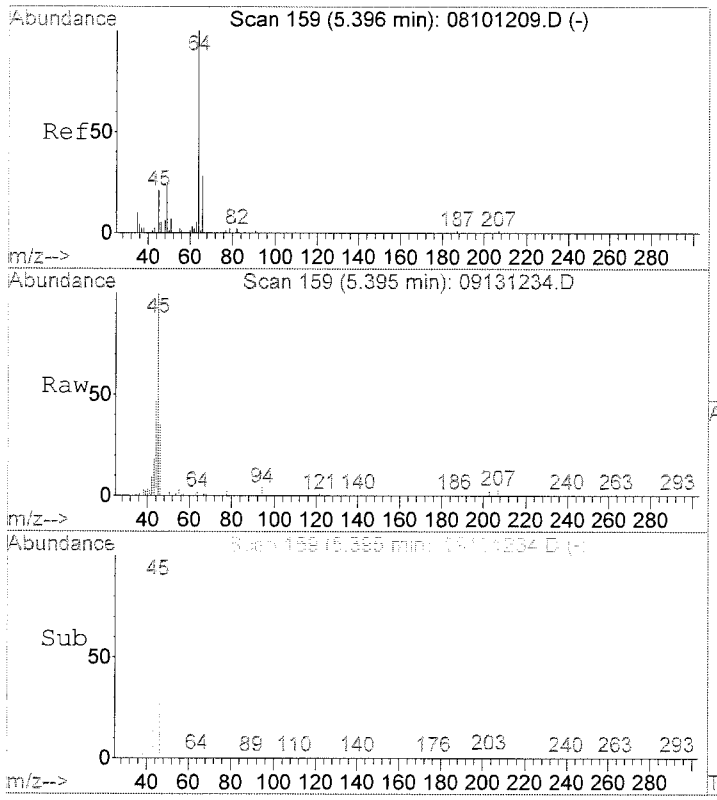
(#) = qualifier out of range (m) = manual integration
09131234.D 081012.M Fri Sep 14 06:49:07 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131234.D Vial: 11
Acq On : 13 Sep 2012 10:25 pm Operator: MNM
Sample : PVI0635-02 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:46 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

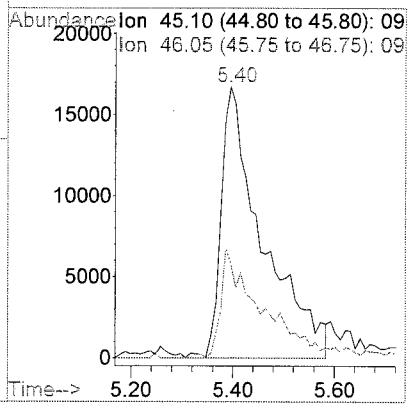


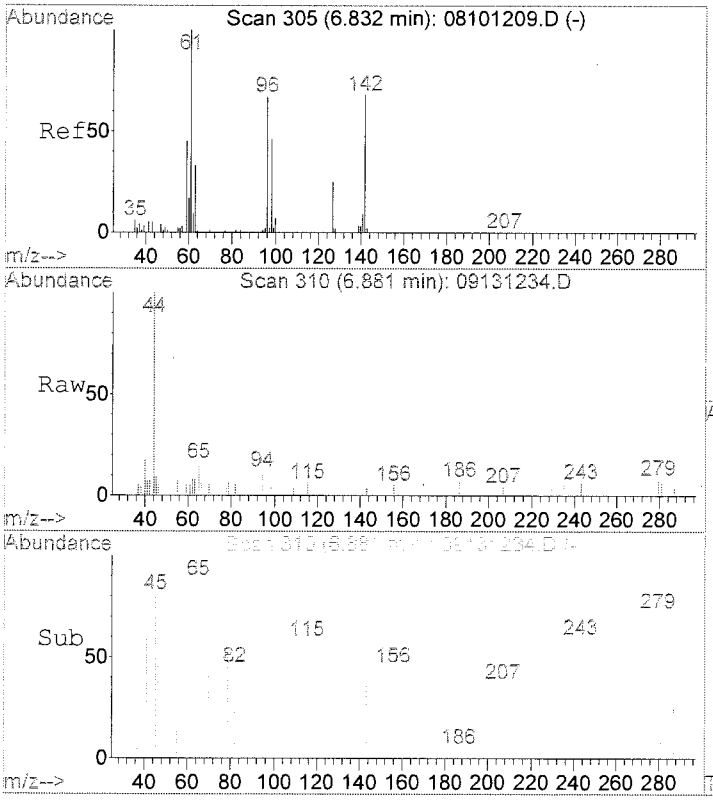


#2
Ethanol
Concen: 4023.91 ug/L
RT: 5.40 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 45 Resp: 95118

Ion	Ratio	Lower	Upper
45	100		
46	39.7	39.9	79.9#

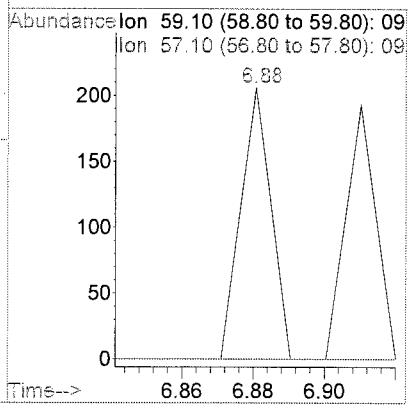


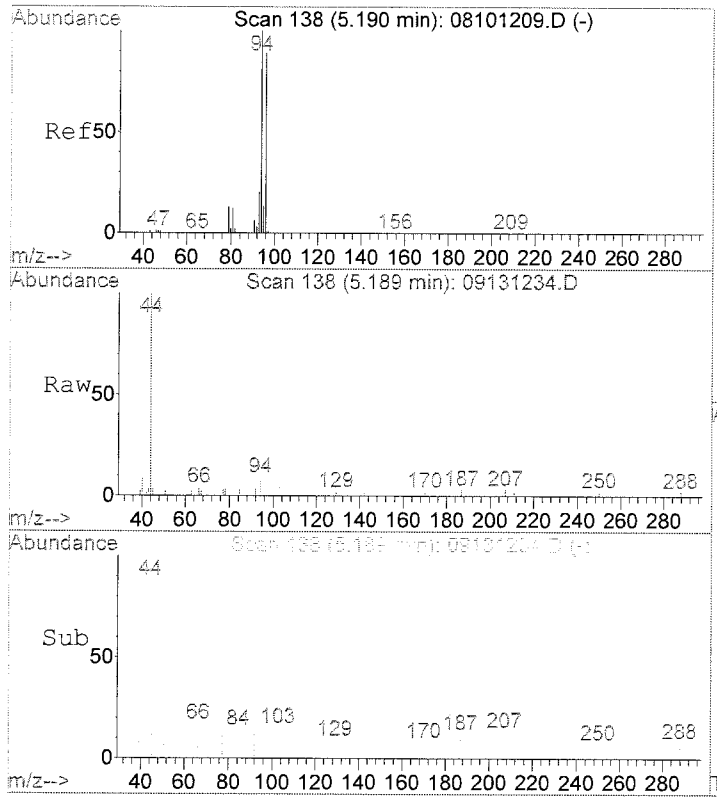


#3
tert-Butanol (TBA)
Concen: 0.48 ug/L
RT: 6.88 min Scan# 310
Delta R.T. 0.05 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 59 Resp: 122

Ion	Ratio	Lower	Upper
59	100		
57	148.4	6.4	9.6#

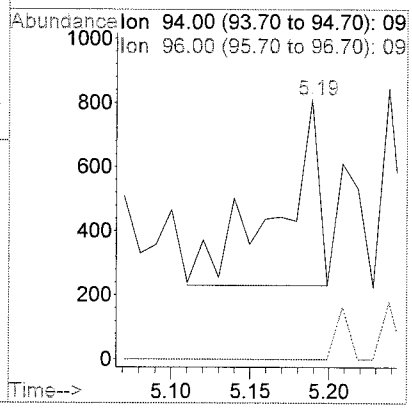


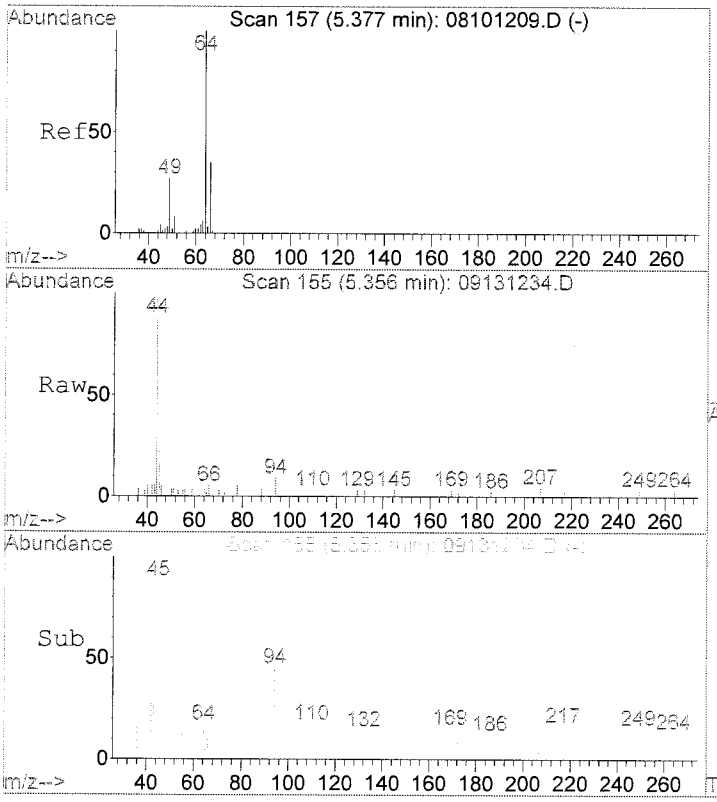


#9
Bromomethane
Concen: 0.23 ug/L
RT: 5.19 min Scan# 138
Delta R.T. -0.00 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 94 Resp: 1044

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

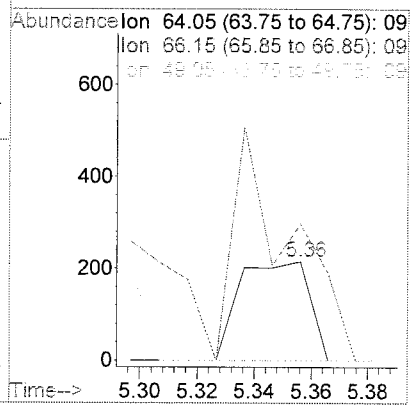


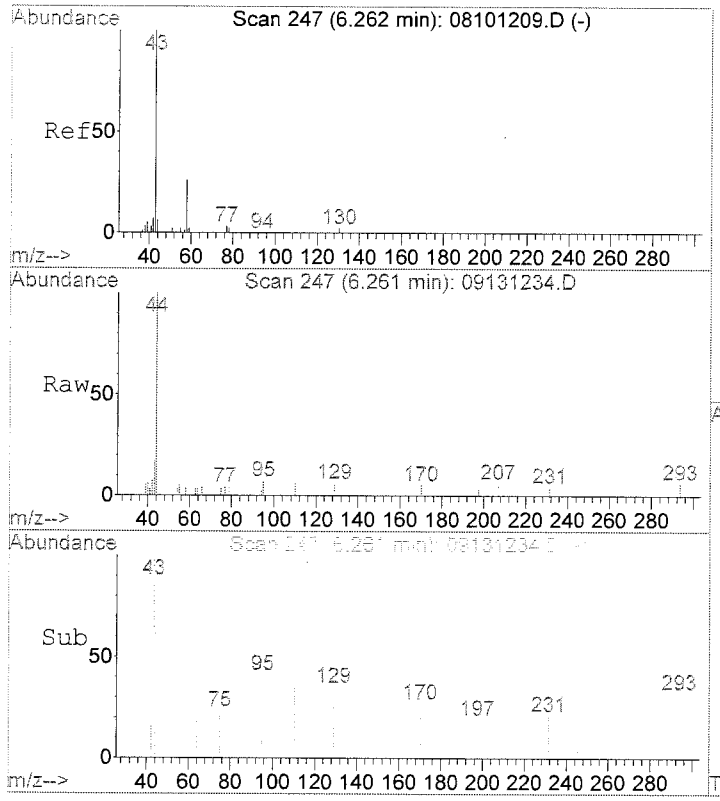


#10
Chloroethane
Concen: 0.10 ug/L
RT: 5.36 min Scan# 155
Delta R.T. -0.02 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 64 Resp: 365

Ion	Ratio	Lower	Upper
64	100		
66	194.0	26.4	39.6#
49	0.0	20.8	31.2#

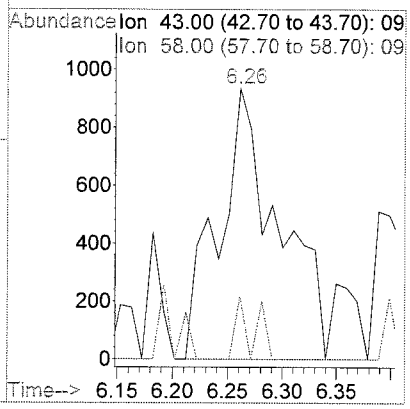


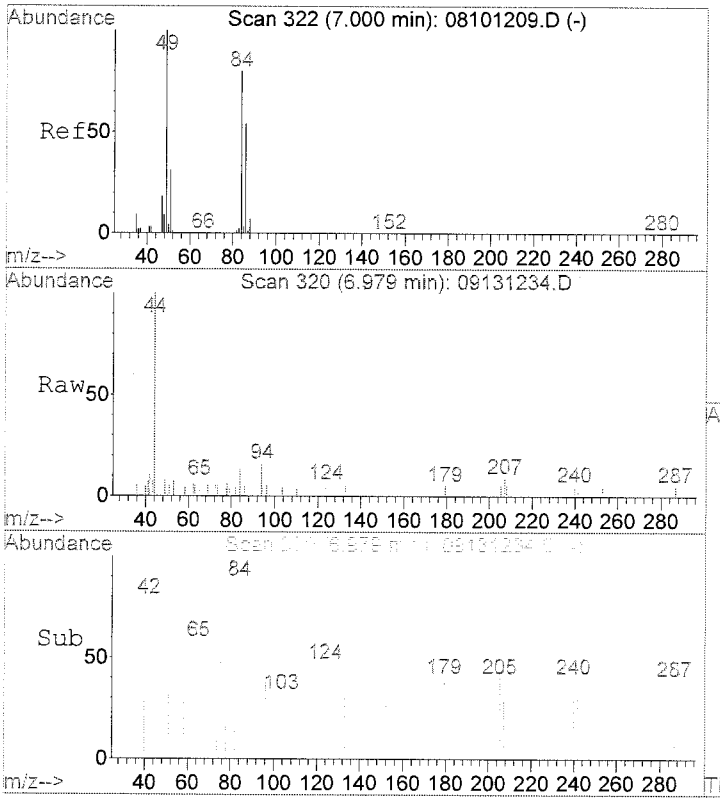


#12
Acetone
Concen: 3.73 ug/L
RT: 6.26 min Scan# 247
Delta R.T. -0.00 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 43 Resp: 3554

Ion	Ratio	Lower	Upper
43	100		
58	6.9	25.9	38.9#

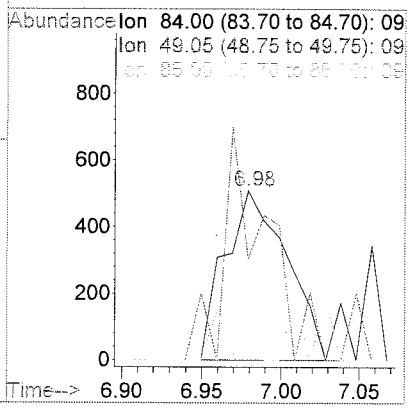


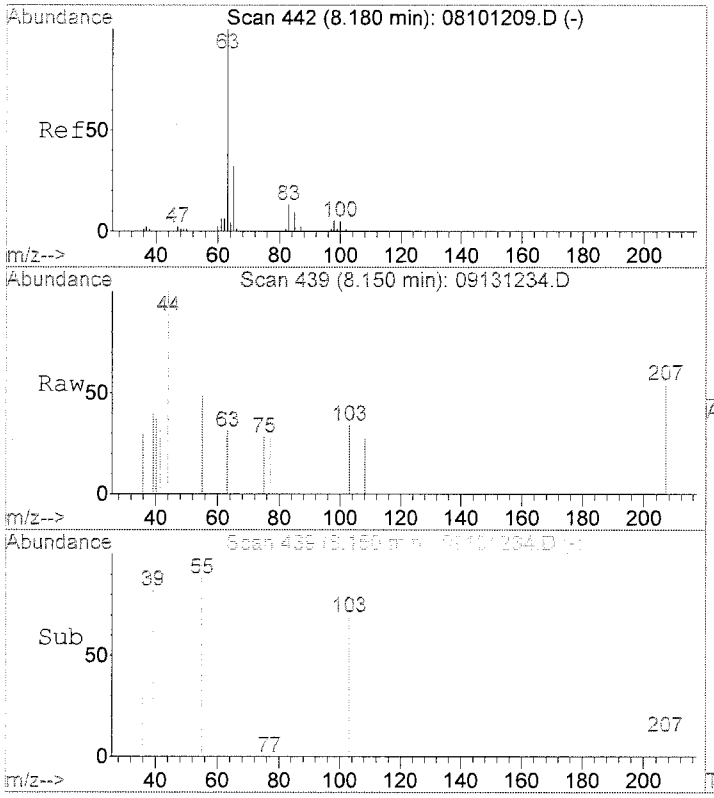


#15
Methylene Chloride
Concen: 0.34 ug/L
RT: 6.98 min Scan# 320
Delta R.T. -0.02 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 84 Resp: 1384

Ion	Ratio	Lower	Upper
84	100		
49	95.7	103.4	155.0#
86	6.5	52.0	78.0#

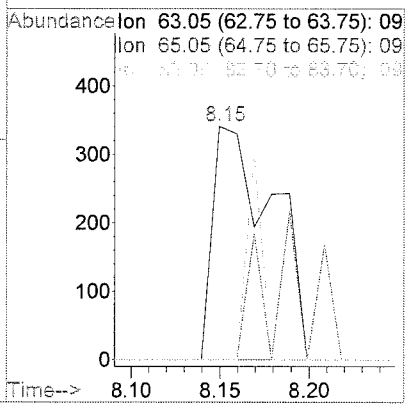




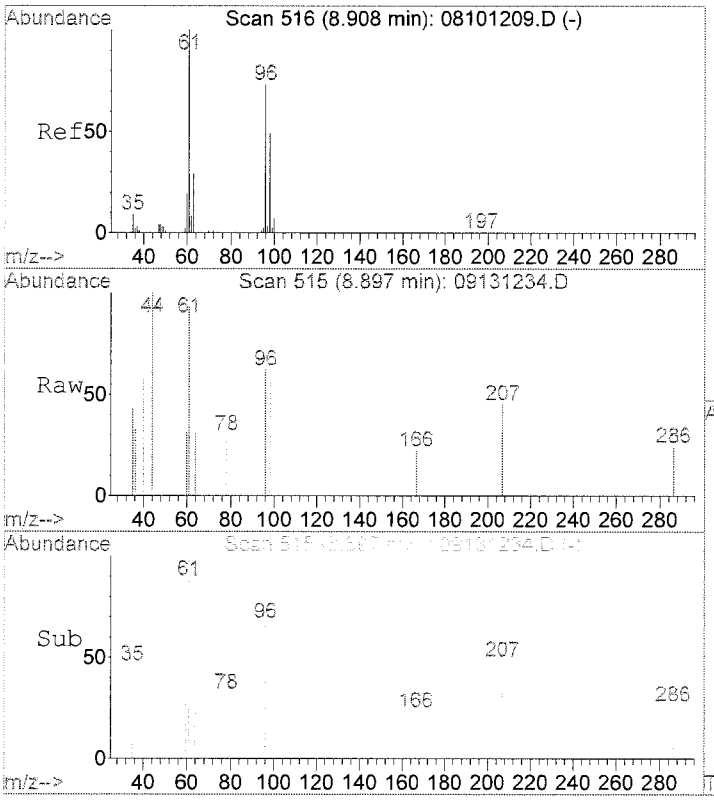
#20
1,1-Dichloroethane
Concen: 0.10 ug/L
RT: 8.15 min Scan# 439
Delta R.T. -0.03 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 63 Resp: 797

Ion	Ratio	Lower	Upper
63	100		
65	13.7	26.0	39.0#
83	22.1	10.6	16.0#



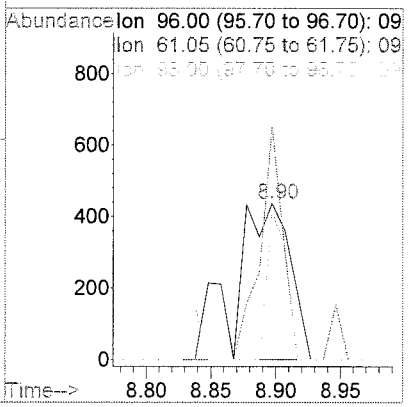
9



#25
cis-1,2-Dichloroethene
Concen: 0.27 ug/L
RT: 8.90 min Scan# 515
Delta R.T. -0.01 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

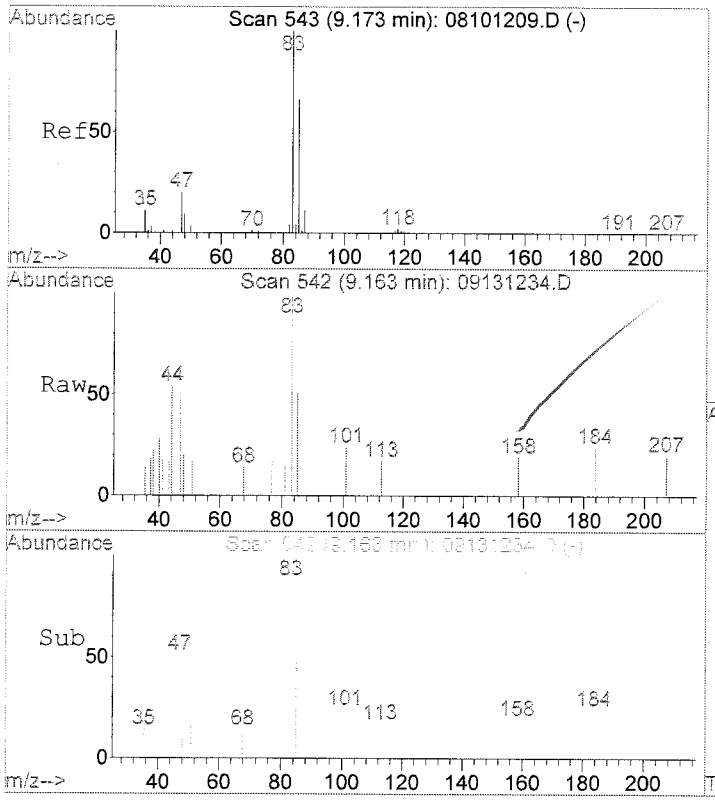
Tgt Ion: 96 Resp: 1288

Ion	Ratio	Lower	Upper
96	100		
61	62.1	103.2	154.8#
98	33.4	51.4	77.2#



NSM

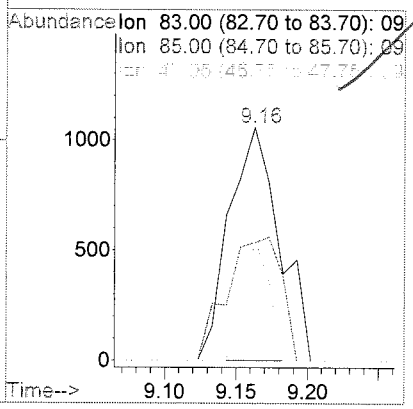
MM

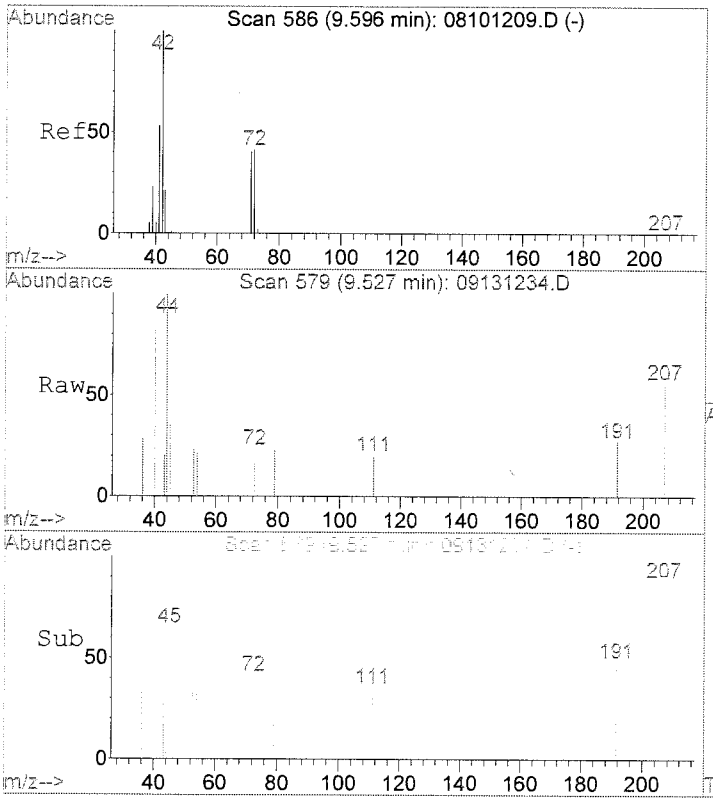


#27
Chloroform
Concen: 0.36 ug/L
RT: 9.16 min Scan# 542
Delta R.T. -0.01 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 83 Resp: 2570

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.6	77.4
47	26.4	18.9	28.3

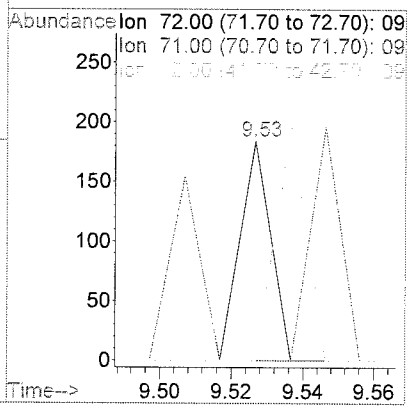


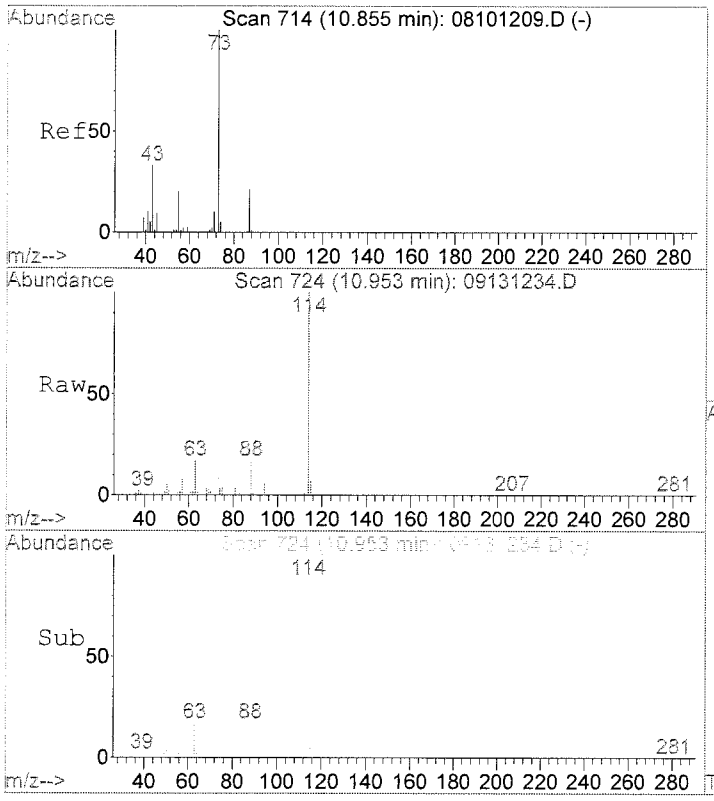


#31
Tetrahydrofuran
Concen: 0.37 ug/L
RT: 9.53 min Scan# 579
Delta R.T. -0.07 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 72 Resp: 109

Ion	Ratio	Lower	Upper
72	100		
71	106.4	79.1	118.7
42	105.5	217.1	325.7#

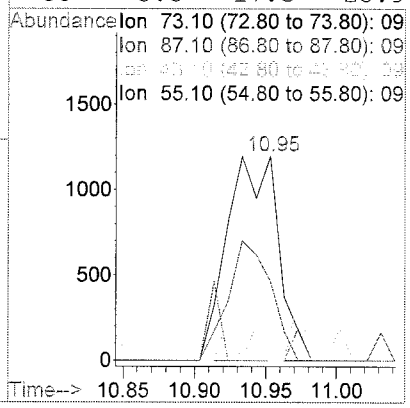


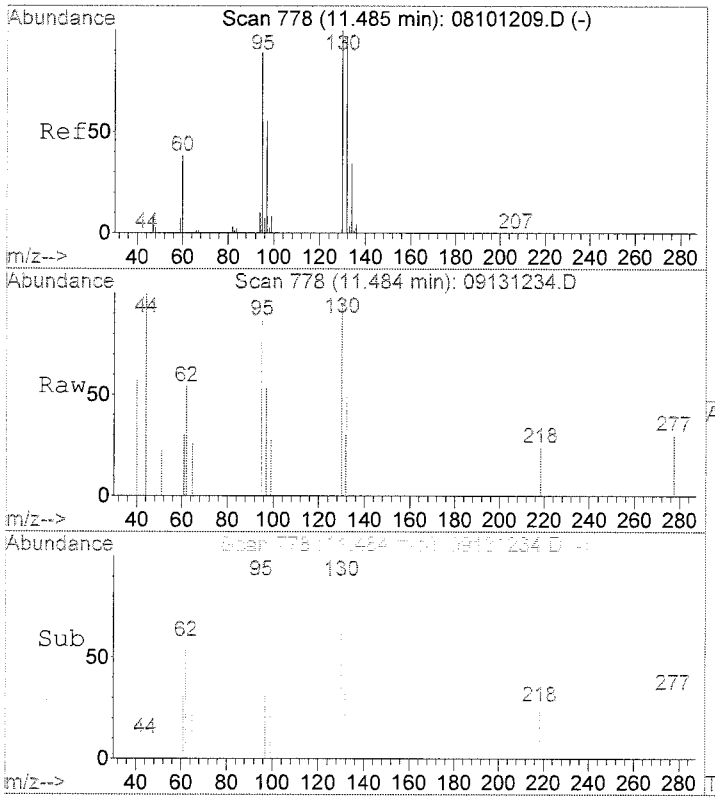


#34
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.10 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 73 Resp: 2963

Ion	Ratio	Lower	Upper
73	100		
87	3.8	16.4	24.6#
43	0.0	27.0	40.4#
55	3.3	17.3	25.9#

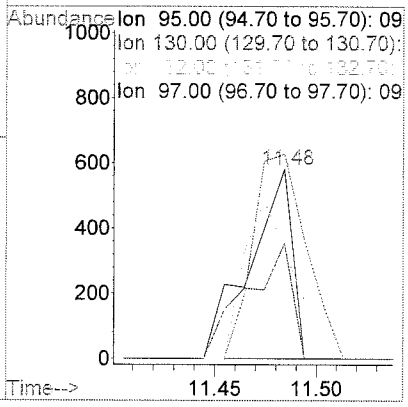


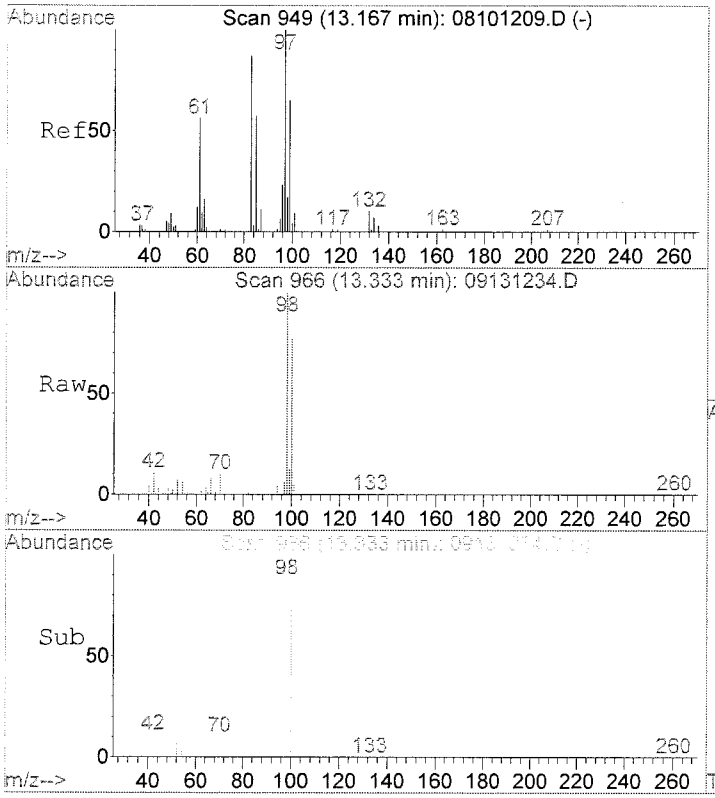


#41
Trichloroethene
Concen: 0.18 ug/L
RT: 11.48 min Scan# 778
Delta R.T. -0.00 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 95 Resp: 842

Ion	Ratio	Lower	Upper
95	100		
130	136.5	87.3	130.9#
132	92.6	84.2	126.4
97	65.2	54.2	81.4

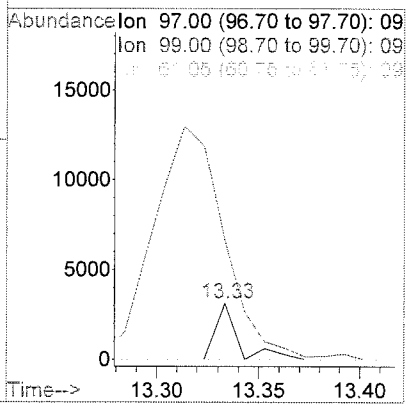


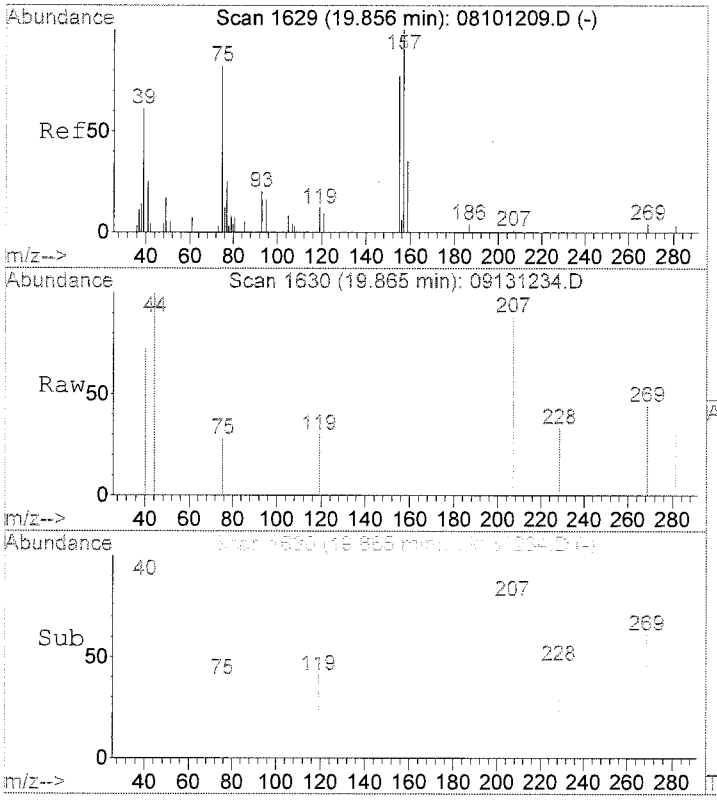


#47
1,1,2-Trichloroethane
Concen: 1.05 ug/L
RT: 13.33 min Scan# 966
Delta R.T. 0.17 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 97 Resp: 2376

Ion	Ratio	Lower	Upper
97	100		
99	1329.7	51.8	77.6#
61	0.0	45.0	67.4#

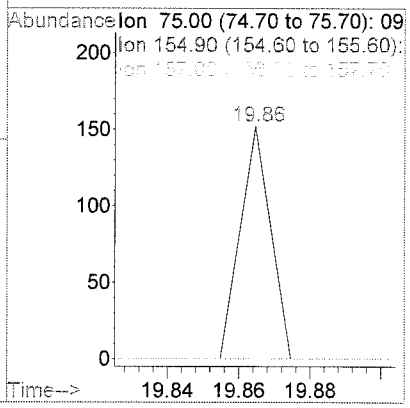




#82
1,2-Dibromo-3-chloropropane
Concen: 0.57 ug/L
RT: 19.86 min Scan# 1630
Delta R.T. 0.01 min
Lab File: 09131234.D
Acq: 13 Sep 2012 10:25 pm

Tgt Ion: 75 Resp: 90

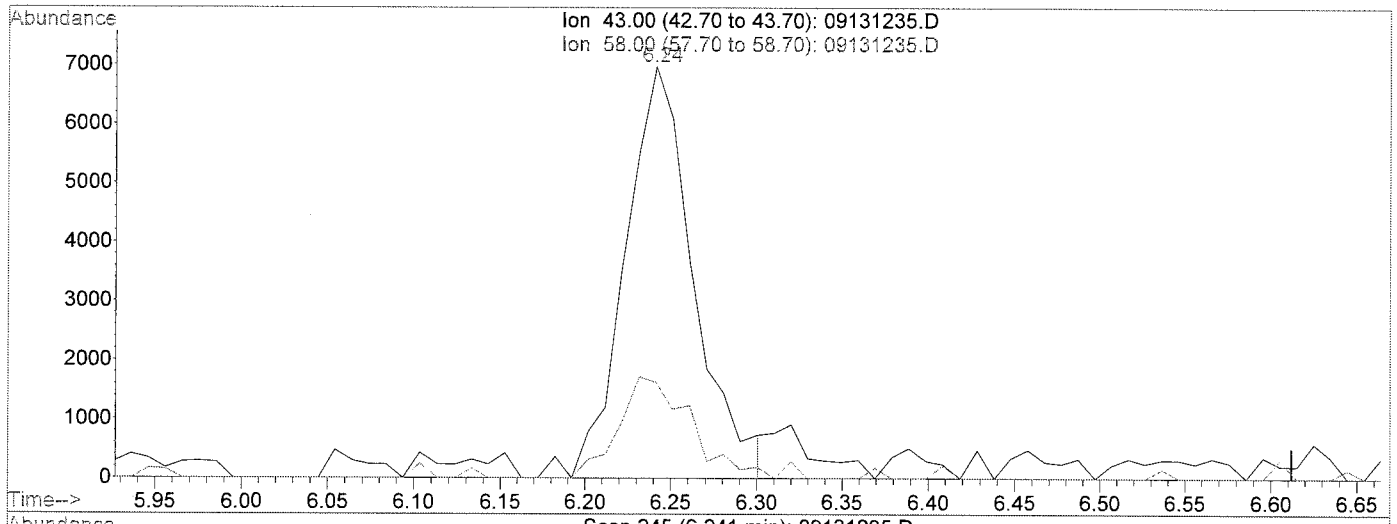
Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

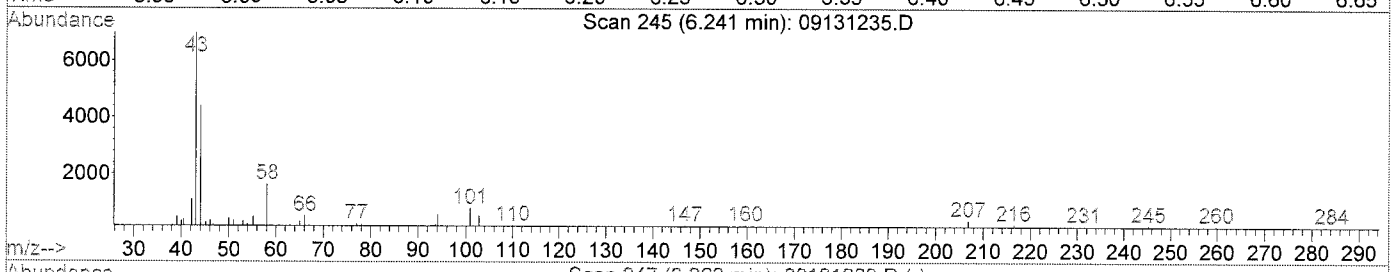


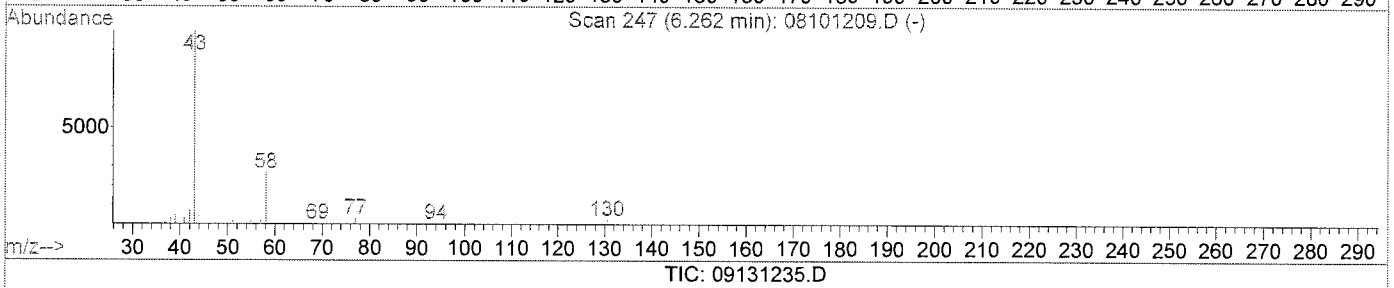
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131235.D Vial: 12
Acq On : 13 Sep 2012 10:58 pm Operator: MNM
Sample : 12I0465-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131235.D

(12) Acetone (T)

6.24min 21.29ug/L

response 19365

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	25.78#
0.00	0.00	0.00
0.00	0.00	0.00

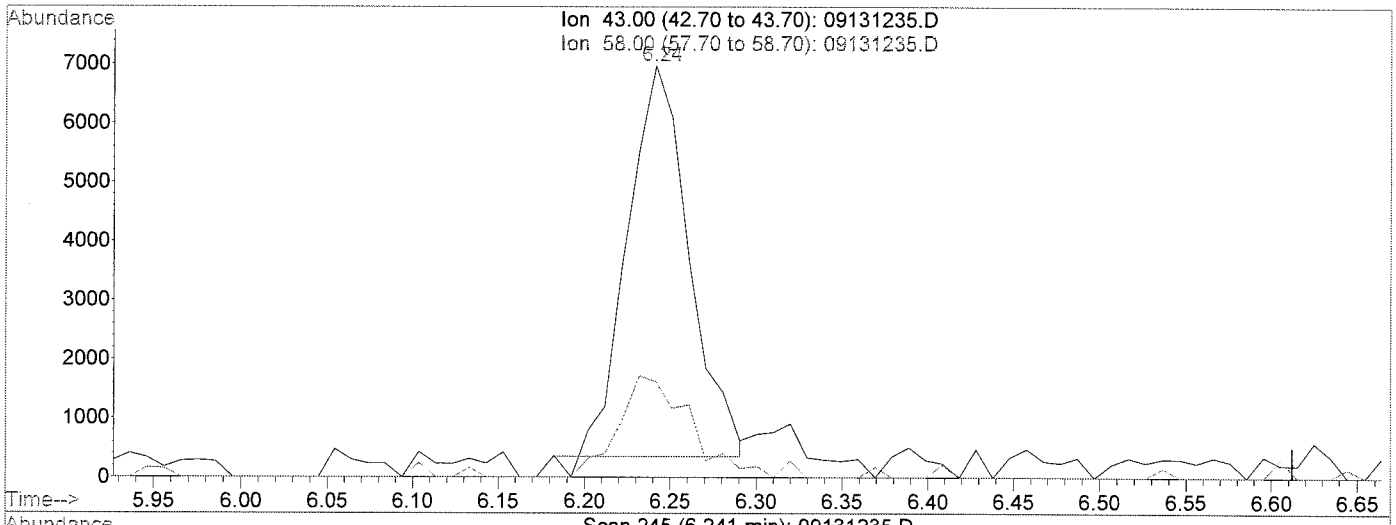
9/14/12

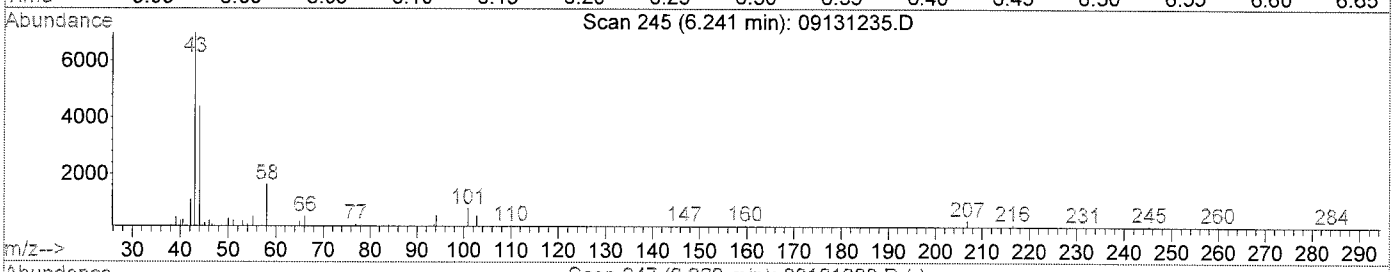
B
BL
mm 9/14/12

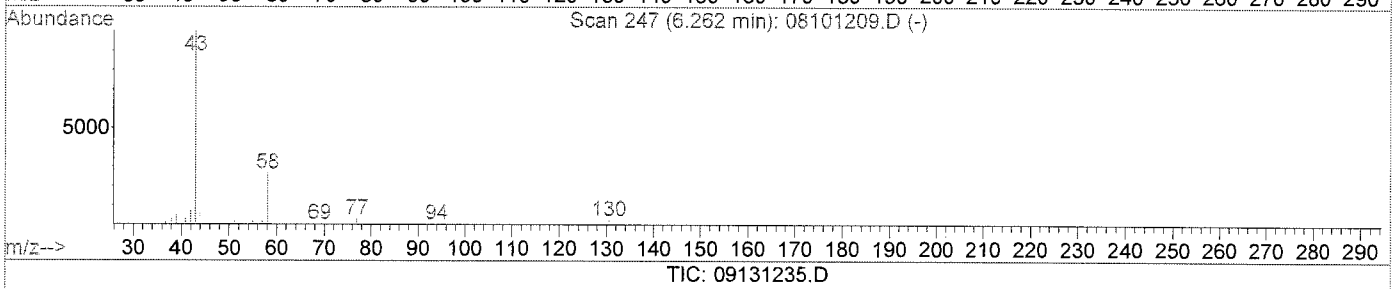
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131235.D Vial: 12
Acq On : 13 Sep 2012 10:58 pm Operator: MNM
Sample : 12I0465-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131235.D

(12) Acetone (T)

6.24min 18.05ug/L m

response 16418

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	30.41
0.00	0.00	0.00
0.00	0.00	0.00

A 9/14/12

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131235.D Vial: 12
Acq On : 13 Sep 2012 10:58 pm Operator: MNM
Sample : 12I0465-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	51869	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.83	168	216085	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	305364	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	226932	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	98884	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	103042	27.27 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 109.08%	
48) Toluene-d8	13.31	98	310608	25.76 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.04%	
62) 4-Bromofluorobenzene	16.94	95	94081	26.83 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.32%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	123888	4430.24 ug/L #	71
3) tert-Butanol (TBA)	6.81	59	42683	140.68 ug/L	99
5) Dichlorodifluoromethane	4.10	85	275257	34.72 ug/L	99
6) Chloromethane	4.34	50	232993	30.20 ug/L	97
7) Vinyl Chloride	4.64	62	203841	28.87 ug/L	99
8) 1,3-Butadiene	4.78	54	160855	42.12 ug/L	97
9) Bromomethane	5.18	94	136386	31.63 ug/L	98
10) Chloroethane	5.37	64	97522	27.85 ug/L	97
11) Trichlorofluoromethane	6.10	101	232287	37.21 ug/L	98
12) Acetone	6.24	43	16418m	18.05 ug/L	
13) Iodomethane	6.85	142	240531	32.97 ug/L #	89
14) 1,1-Dichloroethene	6.79	96	132001	30.39 ug/L	96
15) Methylene Chloride	6.98	84	106924	27.64 ug/L	99
16) Freon 113	7.06	101	148167	32.93 ug/L	98
17) Carbon disulfide	7.28	76	423869	30.00 ug/L	97
18) trans-1,2-Dichloroethene	7.84	96	129461	25.70 ug/L	99
19) MTBE	7.98	73	200741	28.18 ug/L	99
20) 1,1-Dichloroethane	8.16	63	200985	25.69 ug/L	97
21) Vinyl Acetate	8.33	43	131193	23.66 ug/L	99
22) n-Hexane	8.68	86	30468	24.64 ug/L	84
23) 2-Butanone (MEK)	8.72	72	7407	23.80 ug/L #	21
24) Diisopropyl Ether (DIPE)	8.72	45	329440	24.94 ug/L	94
25) cis-1,2-Dichloroethene	8.90	96	126747	27.64 ug/L	95
26) Bromochloromethane	9.10	128	43917	24.12 ug/L	96
27) Chloroform	9.16	83	184802	27.00 ug/L	96
28) 2,2-Dichloropropane	9.27	77	150192	28.99 ug/L	95
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	258152	27.07 ug/L	98
31) Tetrahydrofuran	9.59	72	5225	18.46 ug/L	95
32) 1,2-Dichloroethane	10.00	62	104298	31.59 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	180100	31.42 ug/L	99
34) (TAME) tert-Amyl methyl et	10.84	73	202722	26.38 ug/L	98
36) 1,1-Dichloropropene	10.36	75	142112	21.76 ug/L	97
37) Carbon Tetrachloride	10.60	117	170080	33.22 ug/L	99
38) Benzene	10.65	78	400376	25.70 ug/L	98
39) Dibromomethane	11.38	93	50872	27.65 ug/L	92
40) 1,2-Dichloropropane	11.42	63	86146	23.20 ug/L #	90

(#) = qualifier out of range (m) = manual integration

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131235.D Vial: 12
Acq On : 13 Sep 2012 10:58 pm Operator: MNM
Sample : 12I0465-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	113957	26.09 ug/L		96
42)	Bromodichloromethane	11.53	83	119278	27.91 ug/L		97
43)	2-Chlorovinylethylether	12.07	63	210	0.15 ug/L	#	69
44)	cis-1,3-Dichloropropene	12.37	75	132671	26.63 ug/L		96
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	54119	24.19 ug/L		97
46)	trans-1,3-Dichloropropene	12.94	75	107080	28.26 ug/L		99
47)	1,1,2-Trichloroethane	13.16	97	60195	27.86 ug/L		97
49)	Toluene	13.41	92	239019	26.97 ug/L		99
51)	1,3-Dichloropropane	13.48	76	99218	24.62 ug/L		97
52)	2-Hexanone	13.68	43	34732	20.62 ug/L		99
53)	Dibromochloromethane	13.83	129	85068	29.12 ug/L		95
54)	1,2-Dibromoethane	14.17	107	65598	26.79 ug/L		96
55)	Tetrachloroethene	14.40	164	94352	23.60 ug/L		93
56)	1,1,1,2-Tetrachloroethane	15.20	131	87942	27.45 ug/L		96
57)	Chlorobenzene	15.31	112	240476	25.81 ug/L		97
58)	Ethylbenzene	15.57	91	440076	27.04 ug/L		99
59)	m,p-Xylenes	15.83	106	164337	26.47 ug/L		98
60)	Styrene	16.28	104	199166	23.95 ug/L		97
61)	o-Xylene	16.38	106	149514	26.06 ug/L		97
64)	Bromoform	16.00	173	48367	28.42 ug/L		95
65)	1,1,2,2-Tetrachloroethane	16.38	83	65364	24.61 ug/L		97
66)	1,2,3-Trichloropropane	16.58	110	19078	29.80 ug/L	#	87
67)	trans-1,4-Dichloro-2-buten	16.60	53	13185	20.43 ug/L	#	93
68)	Isopropylbenzene	16.88	105	413029	27.97 ug/L		99
69)	Bromobenzene	17.24	156	96103	26.71 ug/L		99
70)	n-Propylbenzene	17.49	91	486067	25.93 ug/L		100
71)	2-Chlorotoluene	17.63	91	274775	27.11 ug/L		97
72)	4-Chlorotoluene	17.74	91	261369	26.36 ug/L		95
73)	1,3,5-Trimethylbenzene	17.90	105	313427	27.21 ug/L		99
74)	tert-Butylbenzene	18.29	119	291876	28.37 ug/L		96
75)	1,2,4-Trimethylbenzene	18.45	105	296043	27.17 ug/L		96
76)	sec-Butylbenzene	18.60	105	451966	27.15 ug/L		98
77)	1,3-Dichlorobenzene	18.70	146	163647	24.99 ug/L		97
78)	1,4-Dichlorobenzene	18.80	146	161754	25.19 ug/L		99
79)	p-Isopropyltoluene	18.85	119	340535	27.30 ug/L		98
80)	1,2-Dichlorobenzene	19.26	146	141117	26.46 ug/L		100
81)	n-Butylbenzene	19.38	91	308431	25.79 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.85	75	9268	35.01 ug/L	#	79
83)	1,2,4-Trichlorobenzene	21.50	180	76066	26.61 ug/L		98
84)	Napthalene	21.81	128	117913	25.78 ug/L		99
85)	Hexachlorobutadiene	21.88	225	69022	35.93 ug/L		97
86)	1,2,3-Trichlorobenzene	22.07	180	62955	27.27 ug/L		95

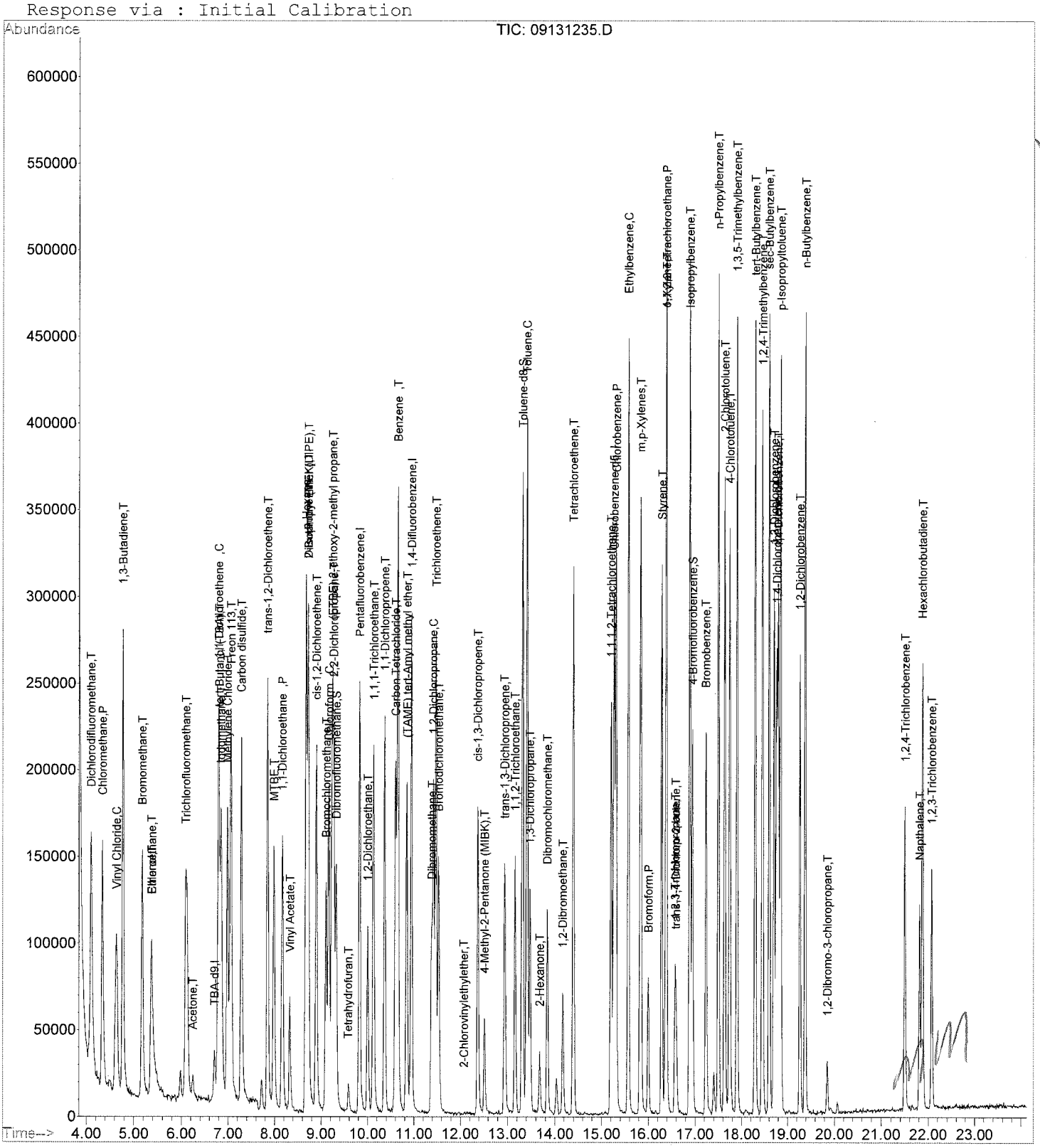
MNM

(#) = qualifier out of range (m) = manual integration
09131235.D 081012.M Fri Sep 14 06:49:40 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131235.D Vial: 12
Acq On : 13 Sep 2012 10:58 pm Operator: MNM
Sample : 12I0465-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

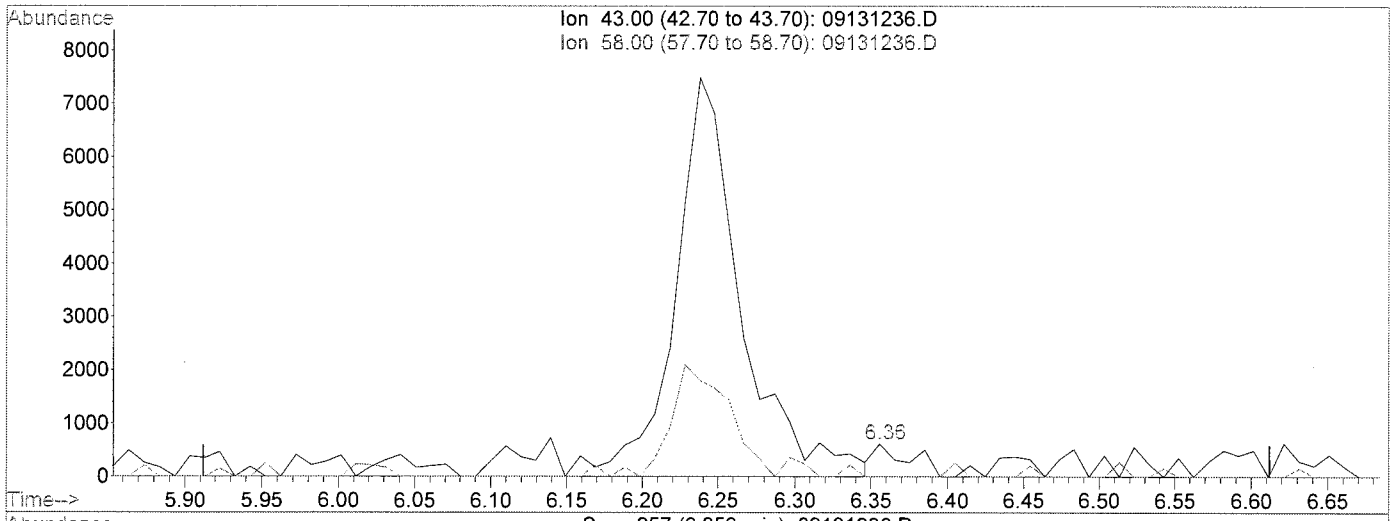
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

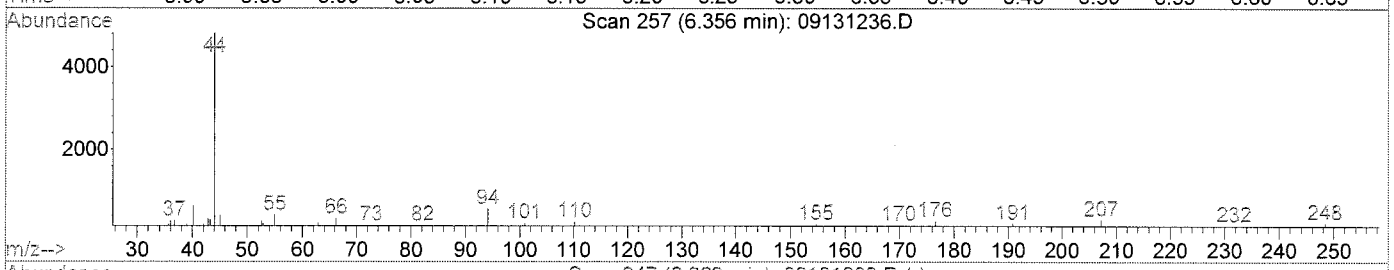


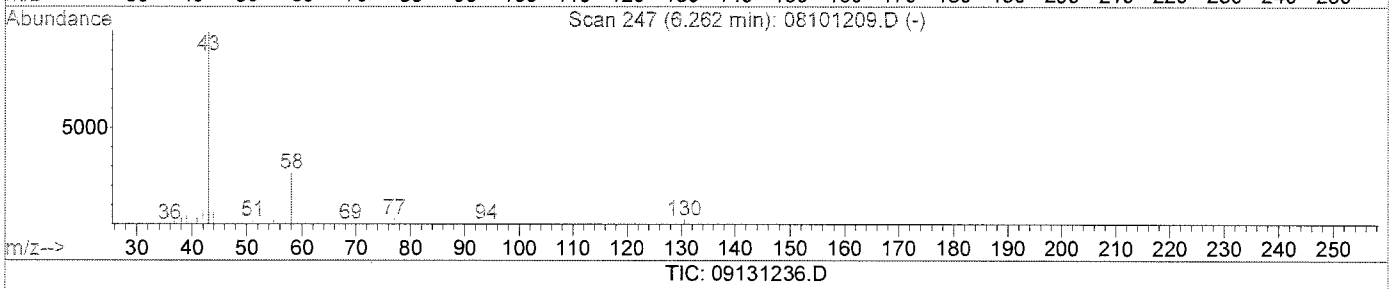
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131236.D Vial: 13
Acq On : 13 Sep 2012 11:30 pm Operator: MNM
Sample : 12I0465-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 09131236.D

(12) Acetone (T)

6.36min 1.12ug/L

response 995

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.28
0.00	0.00	0.00
0.00	0.00	0.00

9/14/12

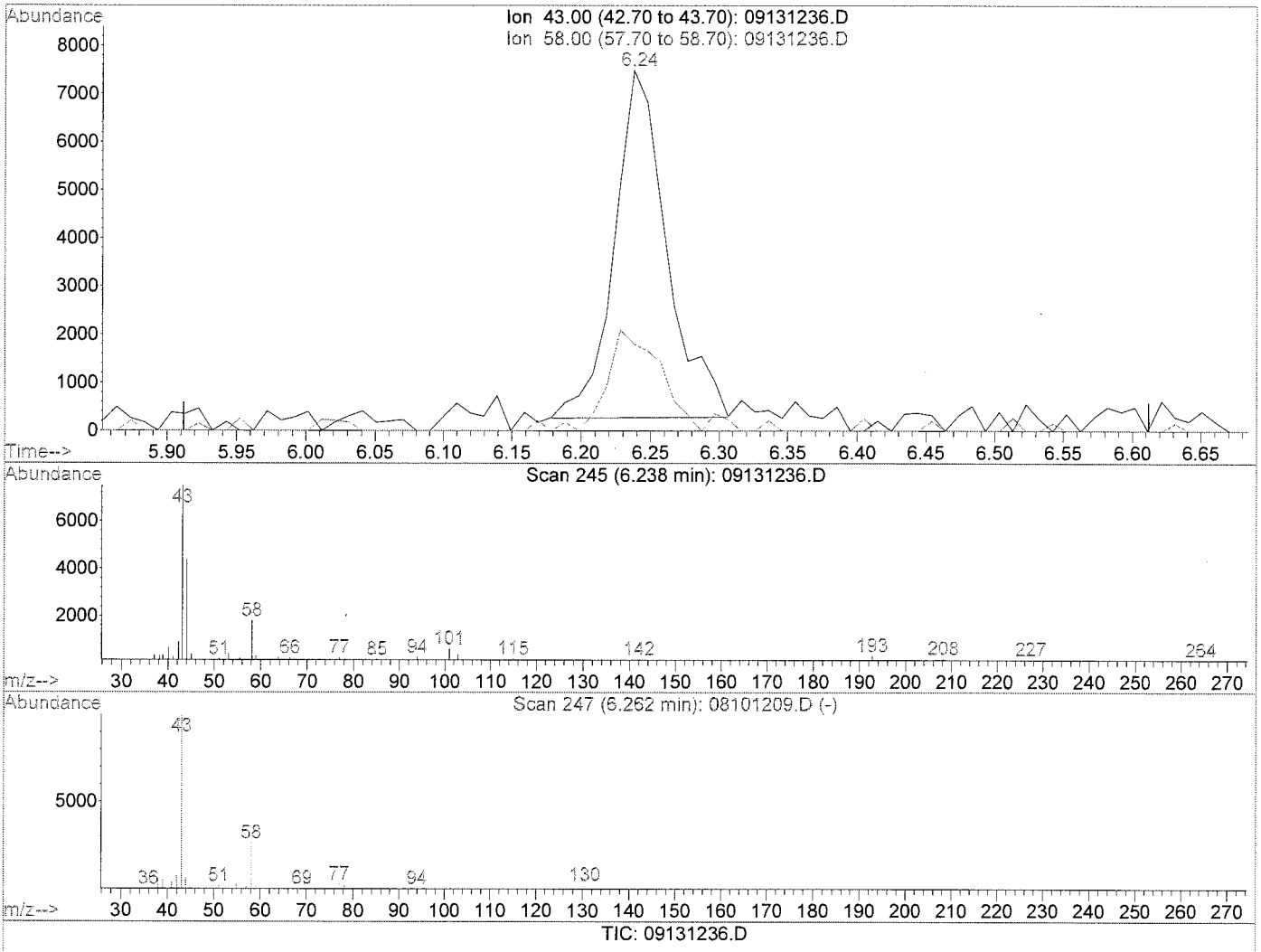
BL

MM 9/14/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131236.D Vial: 13
Acq On : 13 Sep 2012 11:30 pm Operator: MNM
Sample : 12I0465-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.24min 21.55ug/L m

response 19100

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	1.84#
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/14/12

MM 9/14/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131236.D Vial: 13
Acq On : 13 Sep 2012 11:30 pm Operator: MNM
Sample : 12I0465-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/14/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	49910	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	210559	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	293402	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	203374	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	84971	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	95275	25.87 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.48%	
48) Toluene-d8	13.31	98	292184	25.22 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.88%	
62) 4-Bromofluorobenzene	16.94	95	85408	27.18 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 108.72%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	97251	3614.20 ug/L #	67
3) tert-Butanol (TBA)	6.82	59	41482	142.09 ug/L	99
5) Dichlorodifluoromethane	4.09	85	255232	33.03 ug/L	99
6) Chloromethane	4.34	50	216137	28.75 ug/L	100
7) Vinyl Chloride	4.64	62	202637	29.45 ug/L	99
8) 1,3-Butadiene	4.77	54	157152	42.23 ug/L	96
9) Bromomethane	5.18	94	120273	28.62 ug/L	100
10) Chloroethane	5.37	64	93385	27.36 ug/L	96
11) Trichlorofluoromethane	6.09	101	228692	37.60 ug/L	99
12) Acetone	6.24	43	19100m	21.55 ug/L	
13) Iodomethane	6.85	142	231087	32.51 ug/L #	89
14) 1,1-Dichloroethene	6.79	96	122620	28.97 ug/L	94
15) Methylene Chloride	6.99	84	102893	27.30 ug/L	96
16) Freon 113	7.05	101	144721	33.01 ug/L	97
17) Carbon disulfide	7.28	76	420777	30.56 ug/L	98
18) trans-1,2-Dichloroethene	7.84	96	121259	24.70 ug/L	99
19) MTBE	7.99	73	186540	26.87 ug/L	97
20) 1,1-Dichloroethane	8.17	63	182689	23.96 ug/L	98
21) Vinyl Acetate	8.32	43	117624	21.77 ug/L	99
22) n-Hexane	8.67	86	27682	22.97 ug/L	94
23) 2-Butanone (MEK)	8.72	72	6555	21.61 ug/L #	9
24) Diisopropyl Ether (DIPE)	8.72	45	302942	23.54 ug/L	95
25) cis-1,2-Dichloroethene	8.89	96	110515	24.73 ug/L	97
26) Bromochloromethane	9.10	128	43985	24.79 ug/L	96
27) Chloroform	9.16	83	169145	25.36 ug/L	96
28) 2,2-Dichloropropane	9.27	77	141440	28.02 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	223535	24.06 ug/L	97
31) Tetrahydrofuran	9.57	72	5800	21.03 ug/L #	72
32) 1,2-Dichloroethane	10.00	62	92330	28.70 ug/L	94
33) 1,1,1-Trichloroethane	10.12	97	174263	31.20 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	187442	25.03 ug/L	98
36) 1,1-Dichloropropene	10.36	75	143653	22.89 ug/L	97
37) Carbon Tetrachloride	10.60	117	153173	31.14 ug/L	97
38) Benzene	10.64	78	365848	24.44 ug/L	99
39) Dibromomethane	11.37	93	44871	25.39 ug/L	96
40) 1,2-Dichloropropane	11.41	63	76472	21.44 ug/L #	90

MM 9/14/12

(#) = qualifier out of range (m) = manual integration
09131236.D 081012.M Fri Sep 14 06:50:03 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131236.D Vial: 13
Acq On : 13 Sep 2012 11:30 pm Operator: MNM
Sample : 12I0465-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.47	95	105631	25.17 ug/L	98
42)	Bromodichloromethane	11.54	83	107864	26.27 ug/L	98
44)	cis-1,3-Dichloropropene	12.37	75	117055	24.45 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	47387	22.05 ug/L	94
46)	trans-1,3-Dichloropropene	12.94	75	92670	25.46 ug/L	97
47)	1,1,2-Trichloroethane	13.15	97	53733	25.89 ug/L	93
49)	Toluene	13.41	92	218873	25.70 ug/L	96
51)	1,3-Dichloropropane	13.48	76	88954	24.63 ug/L	99
52)	2-Hexanone	13.67	43	30861	20.44 ug/L	100
53)	Dibromochloromethane	13.83	129	71540	27.32 ug/L	94
54)	1,2-Dibromoethane	14.18	107	56589	25.79 ug/L	98
55)	Tetrachloroethene	14.39	164	86678	24.19 ug/L	89
56)	1,1,1,2-Tetrachloroethane	15.21	131	80367	27.99 ug/L	95
57)	Chlorobenzene	15.31	112	213451	25.57 ug/L	97
58)	Ethylbenzene	15.57	91	393142	26.96 ug/L	99
59)	m,p-Xylenes	15.83	106	145570	26.16 ug/L	96
60)	Styrene	16.28	104	197994	26.57 ug/L	98
61)	o-Xylene	16.38	106	142964	27.80 ug/L	98
64)	Bromoform	16.00	173	43984	30.07 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.38	83	63010	27.61 ug/L	96
66)	1,2,3-Trichloropropane	16.58	110	16392	29.80 ug/L	91
67)	trans-1,4-Dichloro-2-buten	16.61	53	11548	20.80 ug/L	96
68)	Isopropylbenzene	16.88	105	380572	29.99 ug/L	99
69)	Bromobenzene	17.23	156	82539	26.69 ug/L	98
70)	n-Propylbenzene	17.50	91	450220	27.95 ug/L	99
71)	2-Chlorotoluene	17.63	91	243848	28.00 ug/L	99
72)	4-Chlorotoluene	17.74	91	233676	27.43 ug/L	95
73)	1,3,5-Trimethylbenzene	17.89	105	282604	28.55 ug/L	96
74)	tert-Butylbenzene	18.29	119	263151	29.77 ug/L	96
75)	1,2,4-Trimethylbenzene	18.44	105	259865	27.76 ug/L	96
76)	sec-Butylbenzene	18.60	105	399668	27.94 ug/L	99
77)	1,3-Dichlorobenzene	18.71	146	150031	26.66 ug/L	94
78)	1,4-Dichlorobenzene	18.80	146	137360	24.90 ug/L	99
79)	p-Isopropyltoluene	18.85	119	295472	27.57 ug/L	98
80)	1,2-Dichlorobenzene	19.26	146	122421	26.72 ug/L	99
81)	n-Butylbenzene	19.38	91	266714	25.95 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.85	75	8028	35.31 ug/L	89
83)	1,2,4-Trichlorobenzene	21.49	180	63922	26.02 ug/L	99
84)	Napthalene	21.82	128	112166	28.54 ug/L	98
85)	Hexachlorobutadiene	21.88	225	63850	38.95 ug/L	95
86)	1,2,3-Trichlorobenzene	22.07	180	57035	28.83 ug/L	93

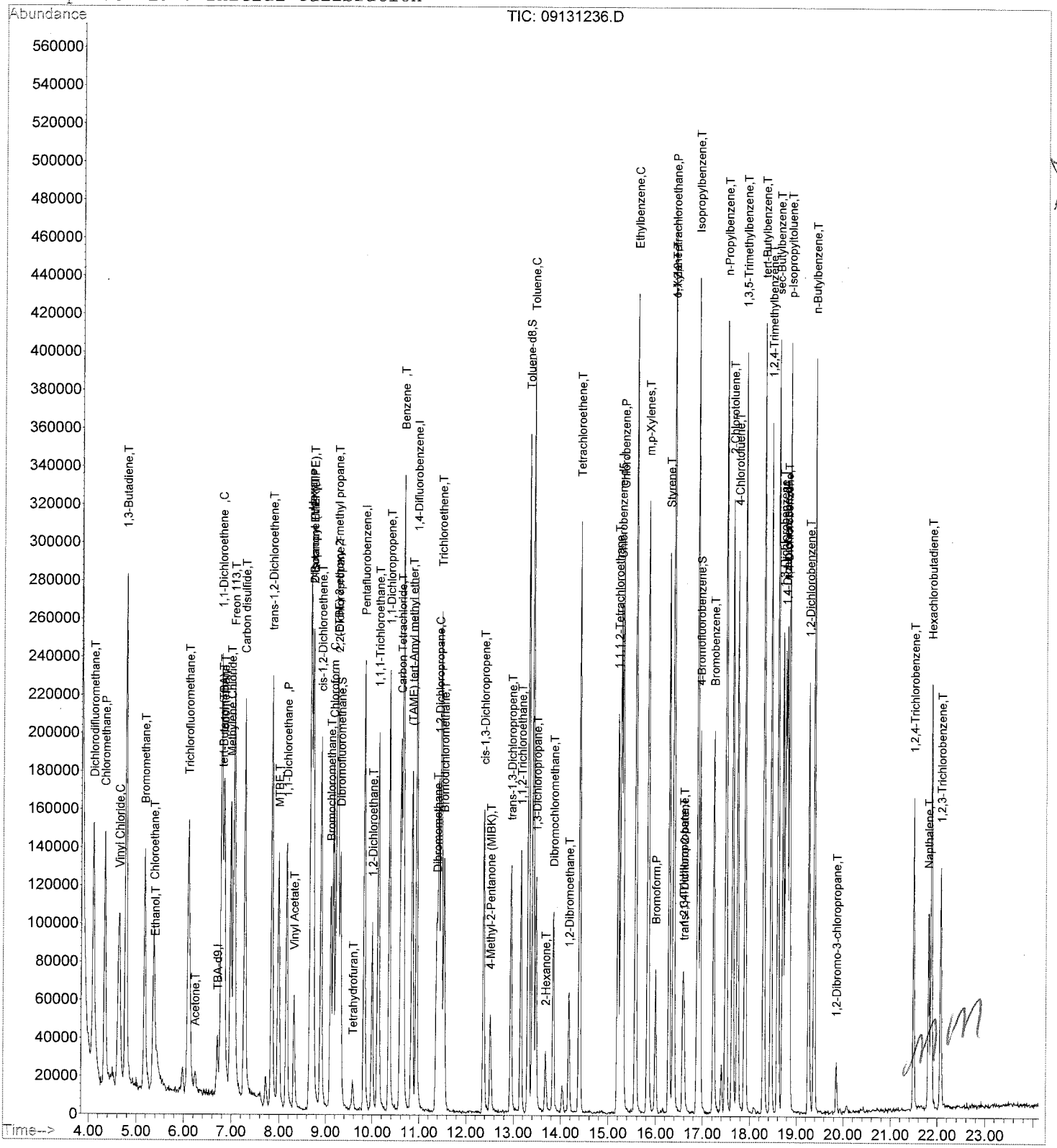
MM

(#) = qualifier out of range (m) = manual integration
09131236.D 081012.M Fri Sep 14 06:50:03 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091312\09131236.D Vial: 13
Acq On : 13 Sep 2012 11:30 pm Operator: MNM
Sample : 12I0465-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 6:49 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091412

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09141201.d	1.	TUNE		14 Sep 2012 06:30
2	2	09141202.d	1.	25 PPB CCV		14 Sep 2012 06:50
3	3	09141203.d	1.	12I0474-BS1		14 Sep 2012 07:23
4	4	09141204.d	1.	12I0474-BSD1		14 Sep 2012 07:55
5	5	09141205.d	1.	12I0474-BLK1		14 Sep 2012 08:28
6	6	09141206.d	1.	PVI0635-03		14 Sep 2012 09:01
7	7	09141207.d	1.	12I0474-MS1		14 Sep 2012 09:40
8	8	09141208.d	1.	12I0474-MSD1		14 Sep 2012 10:12
9	9	09141209.d	1.	PVI0635-04		14 Sep 2012 10:45
10	10	09141210.d	1.	PVI0635-05		14 Sep 2012 11:18
11	11	09141211.d	1.	PVI0635-06		14 Sep 2012 11:50
12	12	09141212.d	1.	PVI0635-07		14 Sep 2012 12:23
13	13	09141213.d	1.	PVI0635-08		14 Sep 2012 12:56
14	14	09141214.d	1.	PVI0717-04		14 Sep 2012 13:28
15	15	09141215.d	1.	PVI0717-05		14 Sep 2012 14:01
16	16	09141216.d	1.	PVI0717-06		14 Sep 2012 14:33
17	17	09141217.d	1.	PVI0717-07		14 Sep 2012 15:06
18	18	09141218.d	1.	PVI0717-08		14 Sep 2012 15:38
19	19	09141219.d	1.	PVI0717-09		14 Sep 2012 16:11
20	1	09141220.d	1.	TUNE		14 Sep 2012 16:52
21	2	09141221.d	1.	25 PPB CCV		14 Sep 2012 17:09
22	3	09141222.d	1.	BLANK		14 Sep 2012 17:41
23	4	09141223.d	1.	PVI0522-04	200X	14 Sep 2012 18:14
24	5	09141224.d	1.	PVI0469-04	5X	14 Sep 2012 18:47
25	6	09141225.d	1.	PVI0626-01		14 Sep 2012 19:19
26	7	09141226.d	1.	PVI0626-03		14 Sep 2012 19:52
27	8	09141227.d	1.	PVI0627-05		14 Sep 2012 20:24
28	9	09141228.d	1.	PVI0627-06		14 Sep 2012 20:57
29	10	09141229.d	1.	PVI0627-08@TB		14 Sep 2012 21:30
30	11	09141230.d	1.	PVI0646-01		14 Sep 2012 22:02
31	12	09141231.d	1.	PVI0596-02		14 Sep 2012 22:35
32	13	09141232.d	1.	PVI0596-03		14 Sep 2012 23:07
33	14	09141233.d	1.	PVI0596-04		14 Sep 2012 23:40
34	15	09141234.d	1.	PVI0596-05		15 Sep 2012 00:13
35	16	09141235.d	1.	PVI0596-06		15 Sep 2012 00:45
36	17	09141236.d	1.	PVI0596-07		15 Sep 2012 01:18
37	18	09141237.d	1.	PVI0596-08		15 Sep 2012 01:50
38	19	09141238.d	1.	PVI0596-09		15 Sep 2012 02:23
39	20	09141239.d	1.	PVI0596-10		15 Sep 2012 02:56
40	21	09141240.d	1.	PVI0596-11		15 Sep 2012 03:28
41	22	09141241.d	1.	PVI0596-12		15 Sep 2012 04:01
42	23	09141242.d	1.	PVI0596-13		15 Sep 2012 04:33

9/17/12

MM 9/17/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/14/12
ANALYST: MM
CALIBRATION METHOD(S): 081012.M

QC BATCH # (s) : 1210474/323/371/389
SEQUENCE FILE: C:\GCMS2\DATA\ 091412.S

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09141201	Tune	2 µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	12DBCP, ↑
3	03	1210474-BS1	✓				
4	04	-BSD1	✓				
5	05	-BLK1	✓	✓			
6	06	PV10635-03A	✓	✓			same
7	07	1210474-MS1	✓	✓			
8	08	-MSD1	✓	✓			
9	09	PV10635-04A	✓	✓			
10	10	-05A	✓	✓			
11	11	-06A	✓	✓			
12	12	-07A	✓	✓			
13	13	-08A	✓	✓			
14	14	0714-04A	✓	✓			
15	15	-05A	✓	✓			
16	16	-06A	✓	✓			
17	17	-07A	✓	✓			
18	18	-08A	✓	✓			
19	19	-09A	✓	✓			
1	20	Tune	2 µL	NA	8260	NA	
2	21	25 ppb CCV	✓			H_2O	A↑ H↑
3	22	Blank	✓			↓	
4	23	PV10522-04 @200X	1mL→10mL			SOIL	TX 323
5	24	0469-04A @5X	40mL→10mL				TX 124 371
6	25	0626-01B	200mL				
7	26	-03B	200mL				
8	27	627-05A @10X	200mL				
9	28	627-06A	200mL				
10	29	627-08A @TB	200mL				
11	30	0646-01A	200mL				

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05577 / 5606
CCV/CALIBRATION STD: PV05486 / 5431
Internal Std: 5519
IS/Surrogate/BFB: ✓ 5503 / 5530

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL CRL Std + 5µL IS/Surr in H_2O
20 ppb CCV PREPARATION: NA
ARCHON REVIEWED By/Date: MM 9/17/12
SEQUENCE REVIEWED By/Date:
FINAL REVIEWER / Date:

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/14/12 [illegible]

ANALYST: [illegible]

CALIBRATION METHOD(S): [illegible]

QC BATCH # (s) : P64

SEQUENCE FILE: C:\GCMS2\DATA\ [illegible]

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 200ml ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
12	091412 31	PVI0596-02A	✓	NA	8260	SOIL	0389
13	32	-03A	✓				
14	33	-04A	✓				
15	34	-05A	✓				
16	35	-06A	✓				
17	36	-07A	✓				
18	37	-08A	✓				
19	38	-09A	✓				
20	39	-10A	✓				
21	40	-11A	✓				
22	41	-12A	✓				
23	42	-13A	✓				

[illegible] 9/14/12

STANDARD ID NUMBERS

ICV / H_2O LCS: P64

CCV/CALIBRATION STD: P

Internal Std: [illegible]

IS/Surrogate/BFB:

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION: P64

ARCHON REVIEWED By/Date: P

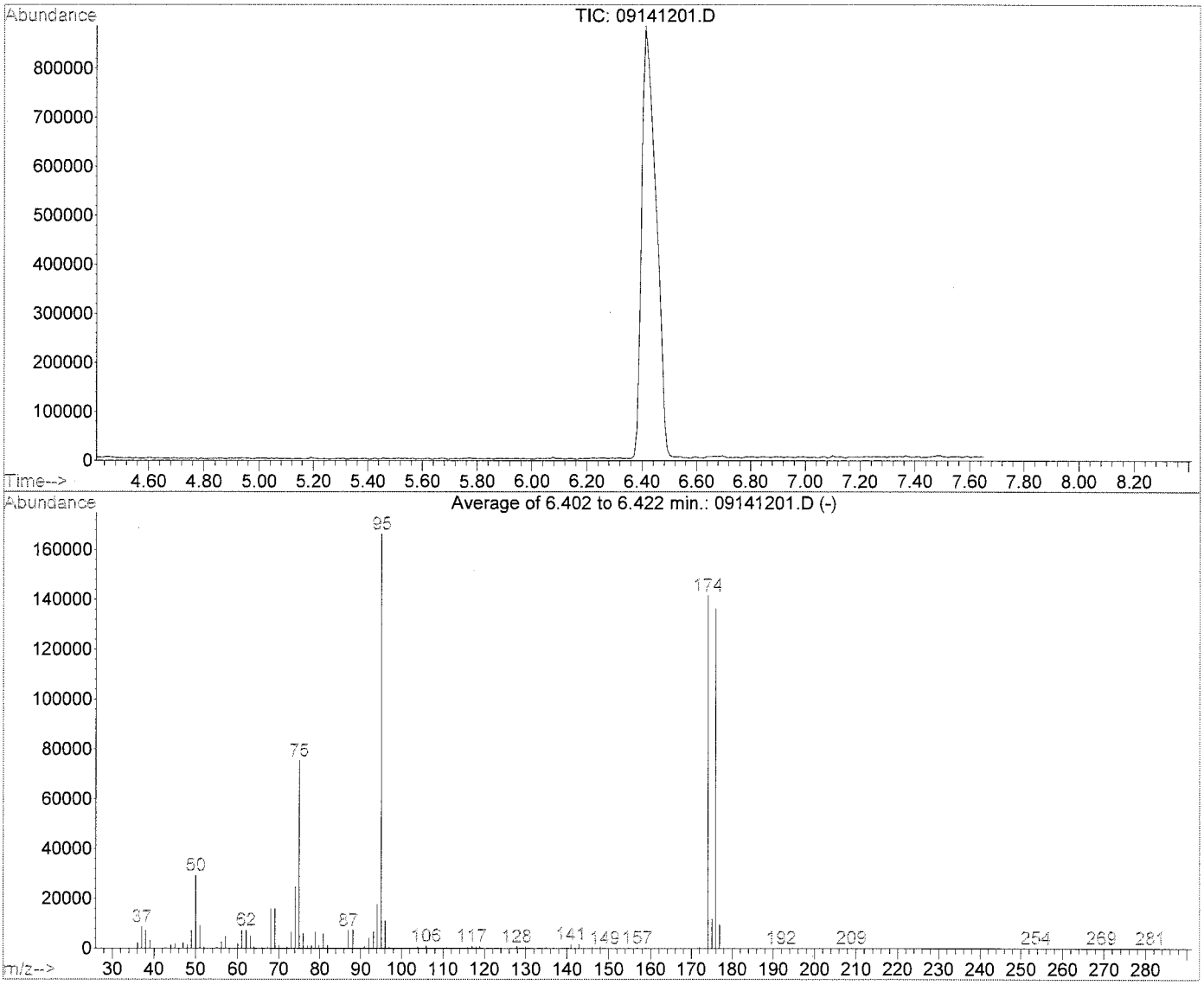
SEQUENCE REVIEWED By/Date: [illegible]

FINAL REVIEWER / Date:

PX-VOA-010/E-09/11

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141201.D Vial: 1
Acq On : 14 Sep 2012 6:30 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration



Spectrum Information: Average of 6.402 to 6.422 min.

9/17/12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	29301	PASS
75	95	30	60	45.3	75357	PASS
95	95	100	100	100.0	166315	PASS
96	95	5	9	6.7	11132	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.2	141688	PASS
175	174	5	9	8.2	11596	PASS
176	174	95	101	96.2	136304	PASS
177	176	5	9	7.0	9481	PASS

MM 9/17/12

09141201.D 081012.M Fri Sep 14 14:32:14 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09141202.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091412\
Operator	MNM
Date Acquired	9/14/2012 6:50
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/17/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	80964	52594	26297	105188	TRUE
4)	Pentafluorobenzene	283189	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	387054	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	274292	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	112561	125555	62777.5	251110	TRUE

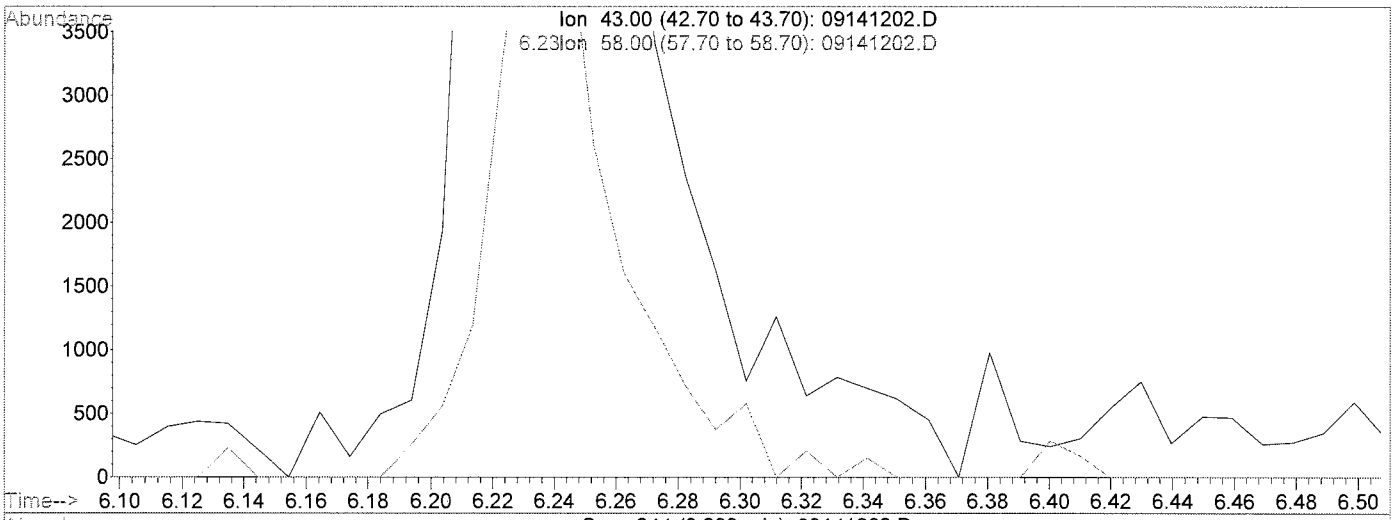
#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	1643.45	250	657%	36%	150%	FALSE	NT
3)	tert-Butanol (TBA)	115.10	125	92%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	26.95	25	108%	60%	140%	TRUE	
6)	Chloromethane	25.12	25	100%	48%	144%	TRUE	
7)	Vinyl Chloride	27.57	25	110%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	25.90	25	104%	50%	141%	TRUE	
9)	Bromomethane	26.20	25	105%	40%	144%	TRUE	
10)	Chloroethane	25.79	25	103%	60%	132%	TRUE	
11)	Trichlorofluoromethane	29.88	25	120%	68%	136%	TRUE	
12)	Acetone	35.49	25	142%	12%	150%	TRUE	
13)	Iodomethane	26.54	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	26.19	25	105%	80%	120%	TRUE	CCC
15)	Methylene Chloride	26.33	25	105%	68%	128%	TRUE	
16)	Freon 113	27.64	25	111%	76%	124%	TRUE	
17)	Carbon disulfide	25.94	25	104%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	22.97	25	92%	76%	120%	TRUE	
19)	MTBE	24.59	25	98%	64%	140%	TRUE	
20)	1,1-Dichloroethane	24.25	25	97%	72%	124%	TRUE	
21)	Vinyl Acetate	20.90	25	84%	48%	150%	TRUE	MM 9/17/12
22)	n-Hexane	23.35	25	93%	56%	150%	TRUE	
23)	2-Butanone (MEK)	29.10	25	116%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	21.36	25	85%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	22.20	25	89%	72%	128%	TRUE	
26)	Bromochloromethane	23.97	25	96%	72%	132%	TRUE	
27)	Chloroform	24.93	25	100%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	27.70	25	111%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	23.86	25	95%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.53**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	23.06	25	92%	64%	139%	TRUE	
32)	1,2-Dichloroethane	27.18	25	109%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	27.98	25	112%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	23.67	25	95%	68%	140%	TRUE	
36)	1,1-Dichloropropene	24.36	25	97%	76%	128%	TRUE	
37)	Carbon Tetrachloride	30.79	25	123%	72%	136%	TRUE	
38)	Benzene	23.03	25	92%	76%	120%	TRUE	

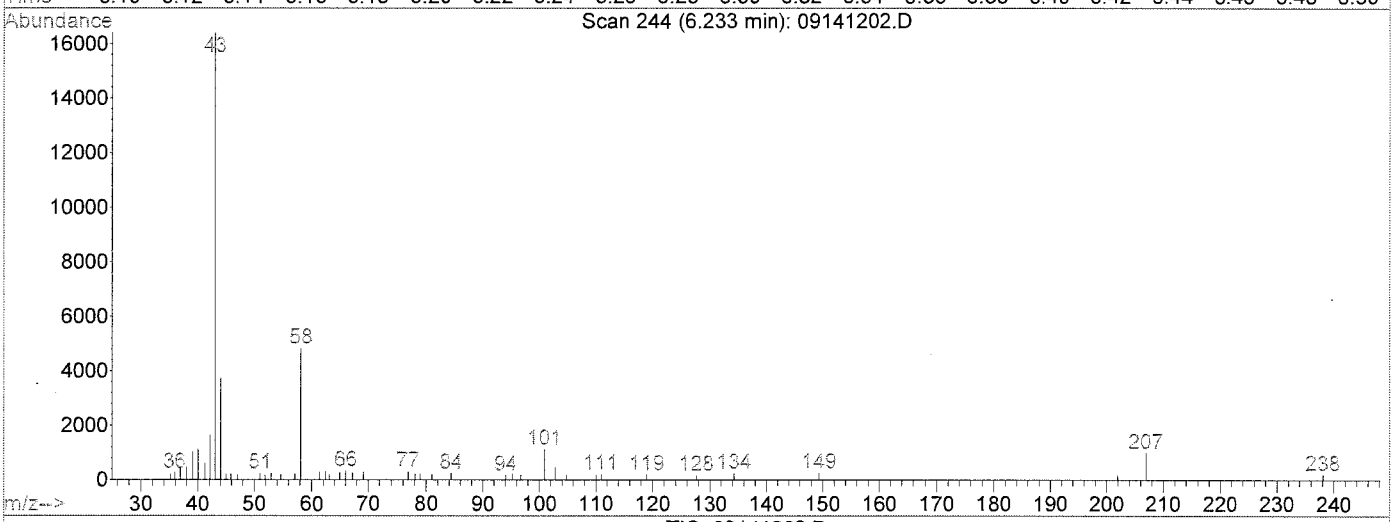
39) Dibromomethane	26.01	25	104%	72%	132%	TRUE	
40) 1,2-Dichloropropane	21.67	25	87%	80%	120%	TRUE	CCC
41) Trichloroethene	24.22	25	97%	80%	120%	TRUE	
42) Bromodichloromethane	26.47	25	106%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	13.84	25	55%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	24.63	25	99%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	22.52	25	90%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	26.53	25	106%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.28	25	101%	72%	132%	TRUE	
48) **Toluene-d8**	**23.74**	**25**	95%	80%	120%	**TRUE**	
49) Toluene	23.87	25	95%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	23.64	25	95%	80%	124%	TRUE	
52) 2-Hexanone	25.01	25	100%	52%	150%	TRUE	
53) Dibromochloromethane	27.80	25	111%	80%	128%	TRUE	
54) 1,2-Dibromoethane	25.22	25	101%	80%	128%	TRUE	
55) Tetrachloroethene	23.27	25	93%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	25.88	25	104%	76%	124%	TRUE	
57) Chlorobenzene	23.49	25	94%	80%	120%	TRUE	
58) Ethylbenzene	24.88	25	100%	80%	120%	TRUE	CCC
59) m,p-Xylenes	25.41	25	102%	80%	120%	TRUE	
60) Styrene	25.85	25	103%	84%	124%	TRUE	
61) o-Xylene	24.52	25	98%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**25.54**	**25**	102%	80%	120%	**TRUE**	
64) Bromoform	29.02	25	116%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.07	25	104%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	26.28	25	105%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	23.65	25	95%	48%	138%	TRUE	
68) Isopropylbenzene	25.34	25	101%	76%	132%	TRUE	
69) Bromobenzene	25.29	25	101%	76%	128%	TRUE	
70) n-Propylbenzene	24.82	25	99%	76%	132%	TRUE	
71) 2-Chlorotoluene	26.01	25	104%	80%	124%	TRUE	
72) 4-Chlorotoluene	26.27	25	105%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	26.69	25	107%	80%	128%	TRUE	
74) tert-Butylbenzene	26.05	25	104%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	26.13	25	105%	80%	128%	TRUE	
76) sec-Butylbenzene	25.01	25	100%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	24.04	25	96%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	24.72	25	99%	76%	120%	TRUE	
79) p-Isopropyltoluene	25.68	25	103%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
81) n-Butylbenzene	24.94	25	100%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	33.34	25	133%	64%	128%	FALSE	
83) 1,2,4-Trichlorobenzene	25.58	25	102%	76%	128%	TRUE	
84) Napthalene	24.79	25	99%	68%	136%	TRUE	
85) Hexachlorobutadiene	31.12	25	124%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	26.08	25	104%	72%	128%	TRUE	

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141202.D

(12) Acetone (T)

6.23min 41.86ug/L

response 49910

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.32
0.00	0.00	0.00
0.00	0.00	0.00

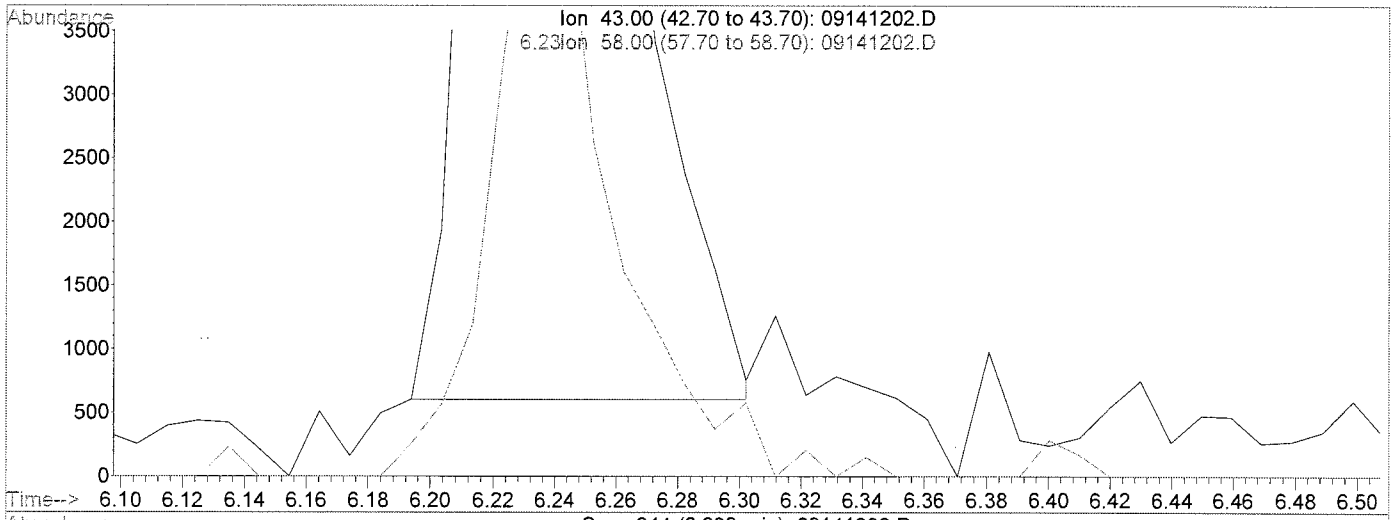
9/17/12R

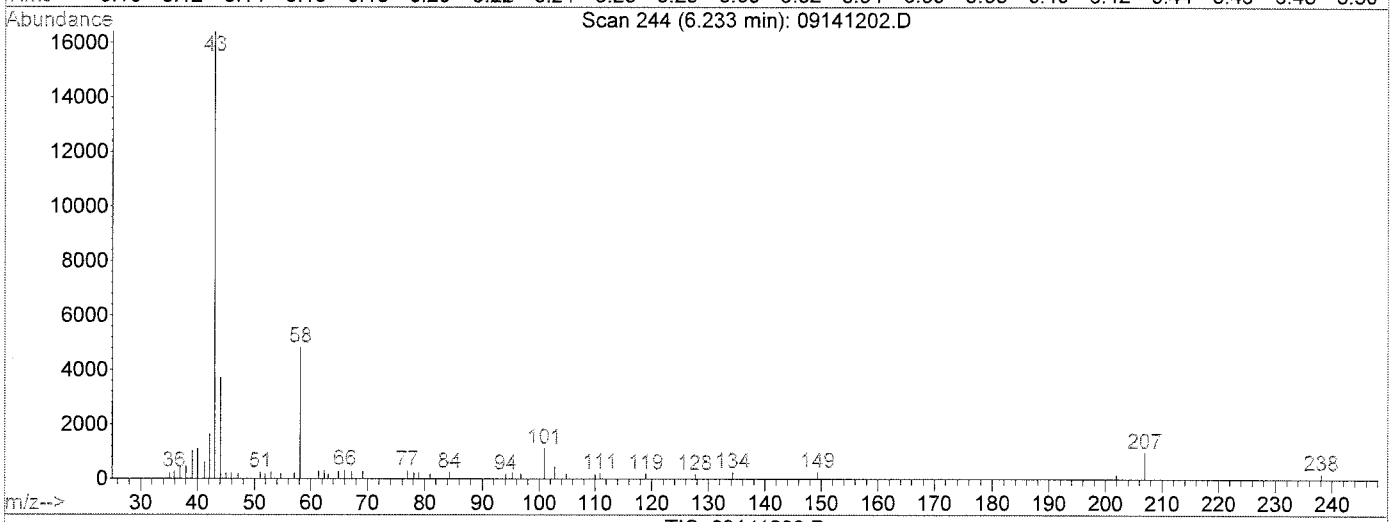
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141202.D

(12) Acetone (T)

6.23min 35.49ug/L m

response 42314

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.05
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	80964	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	283189	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	387054	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	274292	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.75	152	112561	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	126466	25.53 ug/L	-0.02
Spiked Amount 25.000			Recovery =	102.12%	
48) Toluene-d8	13.31	98	362881	23.74 ug/L	-0.02
Spiked Amount 25.000			Recovery =	94.96%	
62) 4-Bromofluorobenzene	16.93	95	108247	25.54 ug/L	-0.02
Spiked Amount 25.000			Recovery =	102.16%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	71737	1643.45 ug/L	86
3) tert-Butanol (TBA)	6.80	59	54513	115.10 ug/L	99
5) Dichlorodifluoromethane	4.10	85	280075	26.95 ug/L	99
6) Chloromethane	4.33	50	254010	25.12 ug/L	97
7) Vinyl Chloride	4.62	62	255108	27.57 ug/L	100
8) 1,3-Butadiene	4.77	54	129659	25.90 ug/L	97
9) Bromomethane	5.17	94	148061	26.20 ug/L	97
10) Chloroethane	5.37	64	118383	25.79 ug/L	97
11) Trichlorofluoromethane	6.10	101	244452	29.88 ug/L	100
12) Acetone	6.23	43	42314m	35.49 ug/L	
13) Iodomethane	6.84	142	253709	26.54 ug/L	91
14) 1,1-Dichloroethene	6.78	96	149123	26.19 ug/L	95
15) Methylene Chloride	6.98	84	133456	26.33 ug/L	96
16) Freon 113	7.05	101	163018	27.64 ug/L	97
17) Carbon disulfide	7.28	76	480288	25.94 ug/L	98
18) trans-1,2-Dichloroethene	7.84	96	151638	22.97 ug/L	98
19) MTBE	7.97	73	229570	24.59 ug/L	100
20) 1,1-Dichloroethane	8.16	63	248667	24.25 ug/L	98
21) Vinyl Acetate	8.32	43	151883	20.90 ug/L	100
22) n-Hexane	8.66	86	37839	23.35 ug/L	72
23) 2-Butanone (MEK)	8.71	72	11868	29.10 ug/L #	94
24) Diisopropyl Ether (DIPE)	8.71	45	369676	21.36 ug/L	92
25) cis-1,2-Dichloroethene	8.89	96	133453	22.20 ug/L	97
26) Bromochloromethane	9.10	128	57191	23.97 ug/L	94
27) Chloroform	9.15	83	223599	24.93 ug/L #	97
28) 2,2-Dichloropropane	9.25	77	188076	27.70 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	298154	23.86 ug/L	99
31) Tetrahydrofuran	9.58	72	8554	23.06 ug/L	80
32) 1,2-Dichloroethane	9.99	62	117591	27.18 ug/L	96
33) 1,1,1-Trichloroethane	10.12	97	210209	27.98 ug/L	100
34) (TAME) tert-Amyl methyl et	10.84	73	238418	23.67 ug/L	97
36) 1,1-Dichloropropene	10.35	75	201637	24.36 ug/L	98
37) Carbon Tetrachloride	10.59	117	199781	30.79 ug/L	97
38) Benzene	10.64	78	454905	23.03 ug/L	98
39) Dibromomethane	11.37	93	60638	26.01 ug/L	96
40) 1,2-Dichloropropane	11.42	63	101990	21.67 ug/L #	88

(#) = qualifier out of range (m) = manual integration
09141202.D 081012.M Fri Sep 14 14:32:37 2012

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	134109	24.22 ug/L		96
42)	Bromodichloromethane	11.53	83	143382	26.47 ug/L		96
43)	2-Chlorovinylethylether	12.07	63	24614	13.84 ug/L		98
44)	cis-1,3-Dichloropropene	12.37	75	155561	24.63 ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	63851	22.52 ug/L		94
46)	trans-1,3-Dichloropropene	12.94	75	127397	26.53 ug/L		100
47)	1,1,2-Trichloroethane	13.15	97	69211	25.28 ug/L		94
49)	Toluene	13.40	92	268080	23.87 ug/L		100
51)	1,3-Dichloropropane	13.47	76	115161	23.64 ug/L		98
52)	2-Hexanone	13.67	43	50915	25.01 ug/L	#	94
53)	Dibromochloromethane	13.84	129	98181	27.80 ug/L		98
54)	1,2-Dibromoethane	14.17	107	74630	25.22 ug/L		98
55)	Tetrachloroethene	14.39	164	112471	23.27 ug/L		100
56)	1,1,1,2-Tetrachloroethane	15.19	131	100215	25.88 ug/L		97
57)	Chlorobenzene	15.30	112	264477	23.49 ug/L		96
58)	Ethylbenzene	15.57	91	489381	24.88 ug/L		99
59)	m,p-Xylenes	15.82	106	190691	25.41 ug/L		99
60)	Styrene	16.28	104	259823	25.85 ug/L		98
61)	o-Xylene	16.37	106	170032	24.52 ug/L		96
64)	Bromoform	15.99	173	56236	29.02 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.37	83	78831	26.07 ug/L		97
66)	1,2,3-Trichloropropane	16.58	110	19150	26.28 ug/L		93
67)	trans-1,4-Dichloro-2-buten	16.60	53	17503	23.65 ug/L	#	89
68)	Isopropylbenzene	16.88	105	426049	25.34 ug/L		99
69)	Bromobenzene	17.23	156	103601	25.29 ug/L		97
70)	n-Propylbenzene	17.50	91	529605	24.82 ug/L		100
71)	2-Chlorotoluene	17.62	91	300141	26.01 ug/L		97
72)	4-Chlorotoluene	17.73	91	296473	26.27 ug/L		95
73)	1,3,5-Trimethylbenzene	17.89	105	349909	26.69 ug/L		96
74)	tert-Butylbenzene	18.28	119	305028	26.05 ug/L		96
75)	1,2,4-Trimethylbenzene	18.44	105	324060	26.13 ug/L		99
76)	sec-Butylbenzene	18.60	105	473893	25.01 ug/L		100
77)	1,3-Dichlorobenzene	18.71	146	179203	24.04 ug/L		96
78)	1,4-Dichlorobenzene	18.79	146	180642	24.72 ug/L		96
79)	p-Isopropyltoluene	18.84	119	364612	25.68 ug/L		97
80)	1,2-Dichlorobenzene	19.27	146	146962	24.21 ug/L		98
81)	n-Butylbenzene	19.37	91	339526	24.94 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.85	75	10071	33.34 ug/L		93
83)	1,2,4-Trichlorobenzene	21.49	180	83259	25.58 ug/L		100
84)	Napthalene	21.81	128	129075	24.79 ug/L		99
85)	Hexachlorobutadiene	21.87	225	68811	31.12 ug/L		97
86)	1,2,3-Trichlorobenzene	22.07	180	68691	26.08 ug/L		95

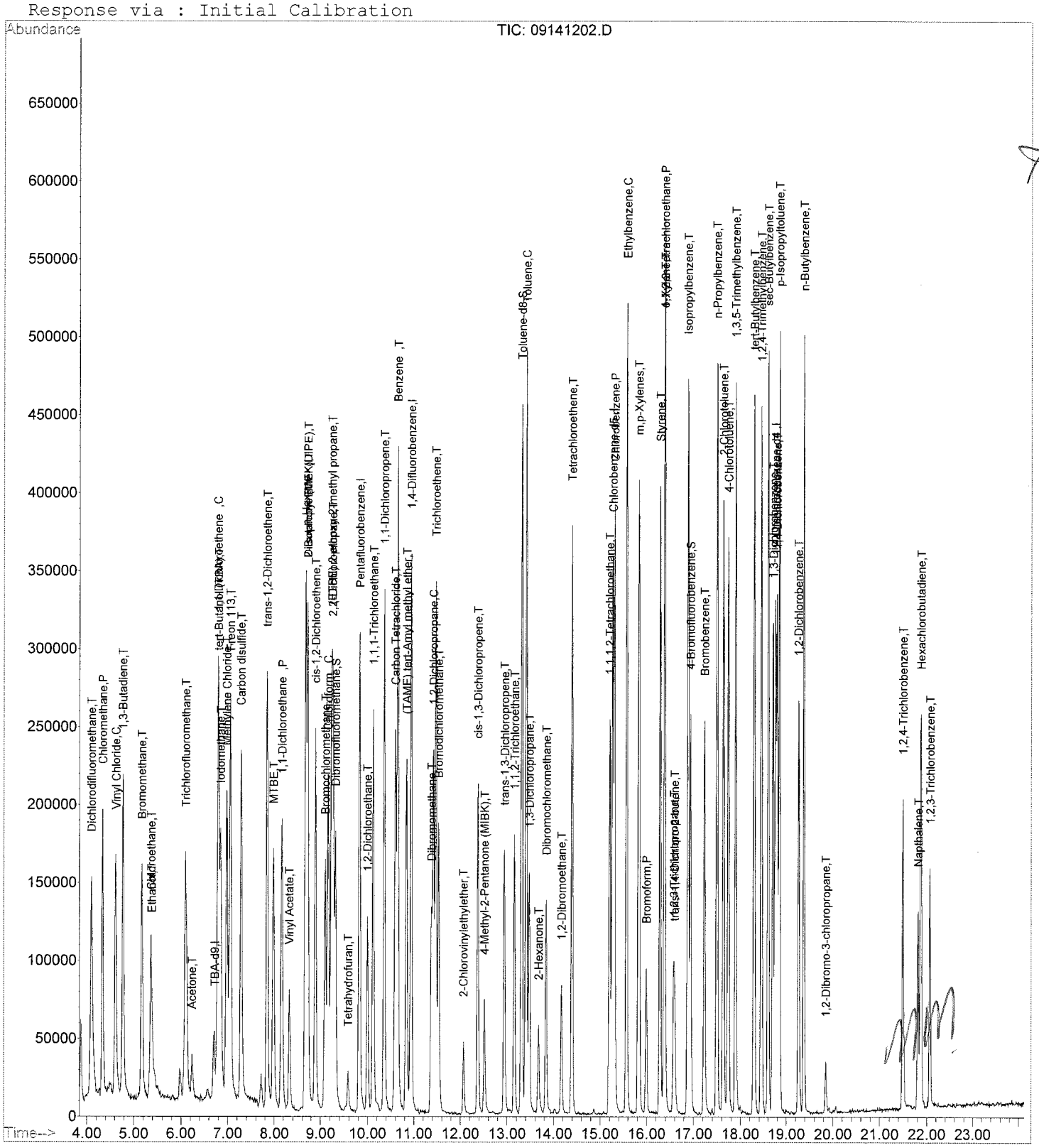
MM

(#) = qualifier out of range (m) = manual integration
09141202.D 081012.M Fri Sep 14 14:32:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	154	-0.02
2	T	Ethanol	0.108	0.709	-556.5#	1071#	0.00
3	T	tert-Butanol (TBA)	1.170	1.077	7.9	139	-0.03
4	I	Pentafluorobenzene	1.000	1.000	0.0	101	-0.02
5	T	Dichlorodifluoromethane	0.917	0.989	-7.9	108	0.00
6	P	Chloromethane	0.893	0.897	-0.4	102	-0.02
7	C	Vinyl Chloride	0.817	0.901	-10.3	109	0.00
8	T	1,3-Butadiene	0.442	0.458	-3.6	102	-0.02
9	T	Bromomethane	0.499	0.523	-4.8	108	-0.02
10	T	Chloroethane	0.405	0.418	-3.2	103	0.00
11	T	Trichlorofluoromethane	0.722	0.863	-19.5	120	-0.02
12	T	Acetone	0.105	0.149	-41.9#	129	-0.03
13	T	Iodomethane	0.844	0.896	-6.2	108	-0.02
14	C	1,1-Dichloroethene	0.503	0.527	-4.8	113	-0.03
15	T	Methylene Chloride	0.448	0.471	-5.1	111	-0.02
16	T	Freon 113	0.521	0.576	-10.6	112	-0.02
17	T	Carbon disulfide	1.635	1.696	-3.7	103	-0.02
18	T	trans-1,2-Dichloroethene	0.583	0.535	8.2	97	-0.03
19	T	MTBE	0.824	0.811	1.6	101	-0.03
20	P	1,1-Dichloroethane	0.905	0.878	3.0	100	-0.02
21	T	Vinyl Acetate	0.642	0.536	16.5	85	-0.02
22		n-Hexane	0.143	0.134	6.3	98	-0.03
23	T	2-Butanone (MEK)	0.036	0.042#	-16.7	109	-0.02
24	T	Diisopropyl Ether (DIPE)	1.528	1.305	14.6	89	-0.03
25	T	cis-1,2-Dichloroethene	0.531	0.471	11.3	93	-0.02
26	T	Bromochloromethane	0.211	0.202	4.3	98	-0.02
27	C	Chloroform	0.792	0.790	0.3	100	-0.02
28	T	2,2-Dichloropropane	0.599	0.664	-10.9	115	-0.02
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	1.053	4.5	100	-0.02
30	S	Dibromofluoromethane	0.437	0.447	-2.3	105	-0.02
31	T	Tetrahydrofuran	0.033	0.030#	9.1	106	-0.02
32	T	1,2-Dichloroethane	0.382	0.415	-8.6	112	-0.02
33	T	1,1,1-Trichloroethane	0.663	0.742	-11.9	110	-0.02
34	T	(TAME) tert-Amyl methyl eth	0.889	0.842	5.3	99	-0.02
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
36	T	1,1-Dichloropropene	0.535	0.521	2.6	98	-0.02
37	T	Carbon Tetrachloride	0.419	0.516	-23.2	122	-0.02
38	T	Benzene	1.276	1.175	7.9	92	-0.02
39	T	Dibromomethane	0.151	0.157	-4.0	104	-0.02
40	C	1,2-Dichloropropane	0.304	0.264	13.2	86	-0.02
41	T	Trichloroethene	0.358	0.346	3.4	95	-0.02
42	T	Bromodichloromethane	0.350	0.370	-5.7	102	-0.03
43	T	2-Chlorovinylethylether	0.115	0.064#	44.3#	56	-0.02
44	T	cis-1,3-Dichloropropene	0.408	0.402	1.5	94	-0.02
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.165	9.8	96	-0.02
46	T	trans-1,3-Dichloropropene	0.310	0.329	-6.1	103	0.00
47	T	1,1,2-Trichloroethane	0.177	0.179	-1.1	96	-0.02
48	S	Toluene-d8	0.987	0.938	5.0	94	-0.02

9/12/12

MNM 9/12/12

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.693	4.5	95	-0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
51	T	1,3-Dichloropropane	0.444	0.420	5.4	93	-0.02
52	T	2-Hexanone	0.186	0.186	0.0	96	-0.02
53	T	Dibromochloromethane	0.322	0.358	-11.2	107	-0.02
54	T	1,2-Dibromoethane	0.270	0.272	-0.7	98	0.00
55	T	Tetrachloroethene	0.440	0.410	6.8	90	-0.02
56	T	1,1,1,2-Tetrachloroethane	0.353	0.365	-3.4	98	-0.02
57	P	Chlorobenzene	1.026	0.964	6.0	92	-0.02
58	C	Ethylbenzene	1.793	1.784	0.5	96	-0.02
59	T	m,p-Xylenes	0.684	0.695	-1.6	97	-0.02
60	T	Styrene	0.916	0.947	-3.4	96	-0.02
61	T	o-Xylene	0.632	0.620	1.9	95	-0.02
62	S	4-Bromofluorobenzene	0.386	0.395	-2.3	103	-0.02
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	-0.02
64	P	Bromoform	0.430	0.500	-16.3	107	-0.02
65	P	1,1,2,2-Tetrachloroethane	0.672	0.700	-4.2	98	-0.02
66	T	1,2,3-Trichloropropane	0.162	0.170	-4.9	99	0.00
67	T	trans-1,4-Dichloro-2-butene	0.150	0.155	-3.3	93	-0.02
68	T	Isopropylbenzene	3.734	3.785	-1.4	95	-0.02
69	T	Bromobenzene	0.910	0.920	-1.1	92	-0.02
70	T	n-Propylbenzene	4.740	4.705	0.7	91	0.00
71	T	2-Chlorotoluene	2.563	2.666	-4.0	99	-0.02
72	T	4-Chlorotoluene	2.506	2.634	-5.1	100	-0.02
73	T	1,3,5-Trimethylbenzene	2.912	3.109	-6.8	96	-0.02
74	T	tert-Butylbenzene	2.601	2.710	-4.2	94	-0.02
75	T	1,2,4-Trimethylbenzene	2.755	2.879	-4.5	96	-0.02
76	T	sec-Butylbenzene	4.209	4.210	-0.0	90	0.00
77	T	1,3-Dichlorobenzene	1.656	1.592	3.9	89	0.00
78	T	1,4-Dichlorobenzene	1.623	1.605	1.1	92	-0.02
79	T	p-Isopropyltoluene	3.154	3.239	-2.7	91	0.00
80	T	1,2-Dichlorobenzene	1.348	1.306	3.1	88	0.00
81	T	n-Butylbenzene	3.024	3.016	0.3	87	-0.02
82	T	1,2-Dibromo-3-chloropropane	0.063	0.089#	-41.3#	109	0.00
83	T	1,2,4-Trichlorobenzene	0.723	0.740	-2.4	87	-0.02
84	T	Napthalene	1.156	1.147	0.8	85	0.00
85	T	Hexachlorobutadiene	0.549	0.611	-11.3	96	0.00
86	T	1,2,3-Trichlorobenzene	0.602	0.610	-1.3	88	-0.02

T

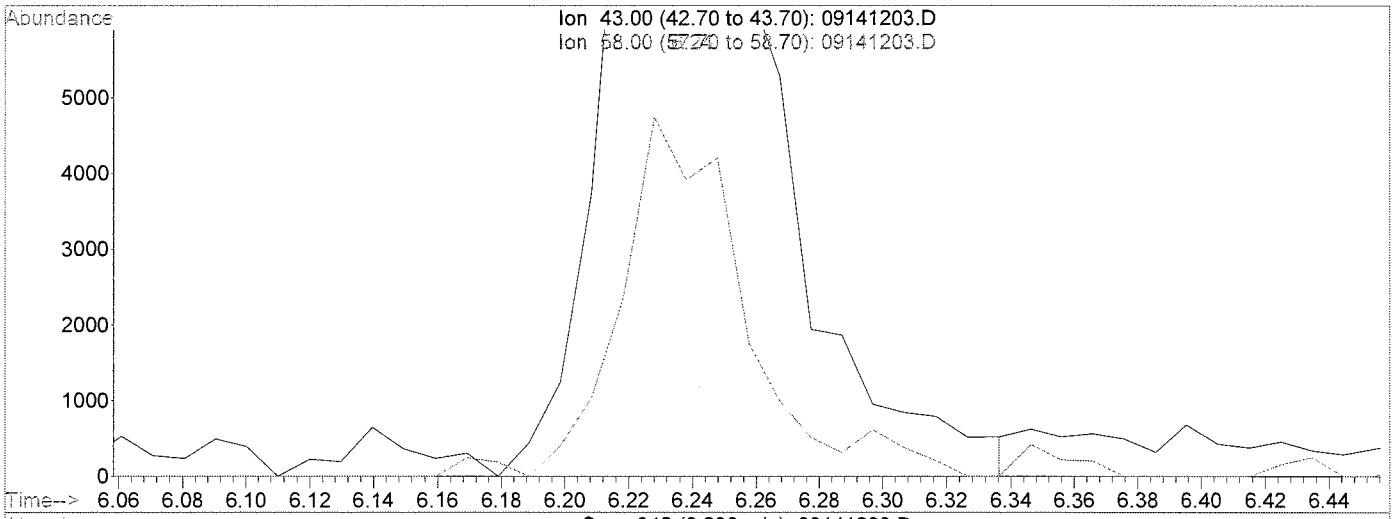
MM

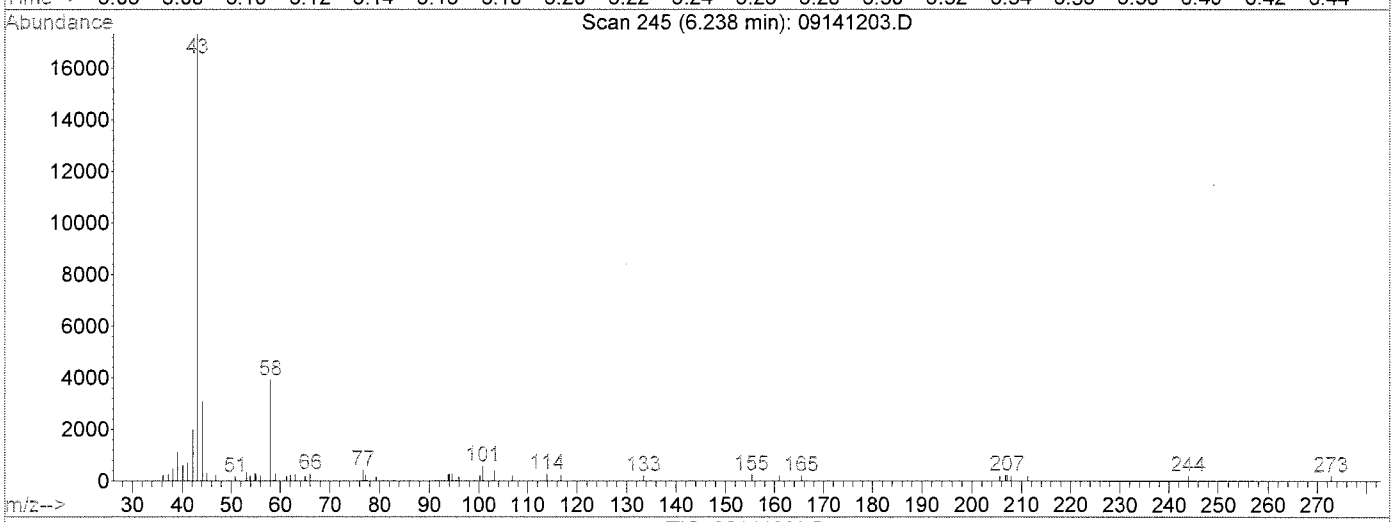
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141203.D

(12) Acetone (T)

6.24min 39.93ug/L

response 47567

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	25.65#
0.00	0.00	0.00
0.00	0.00	0.00

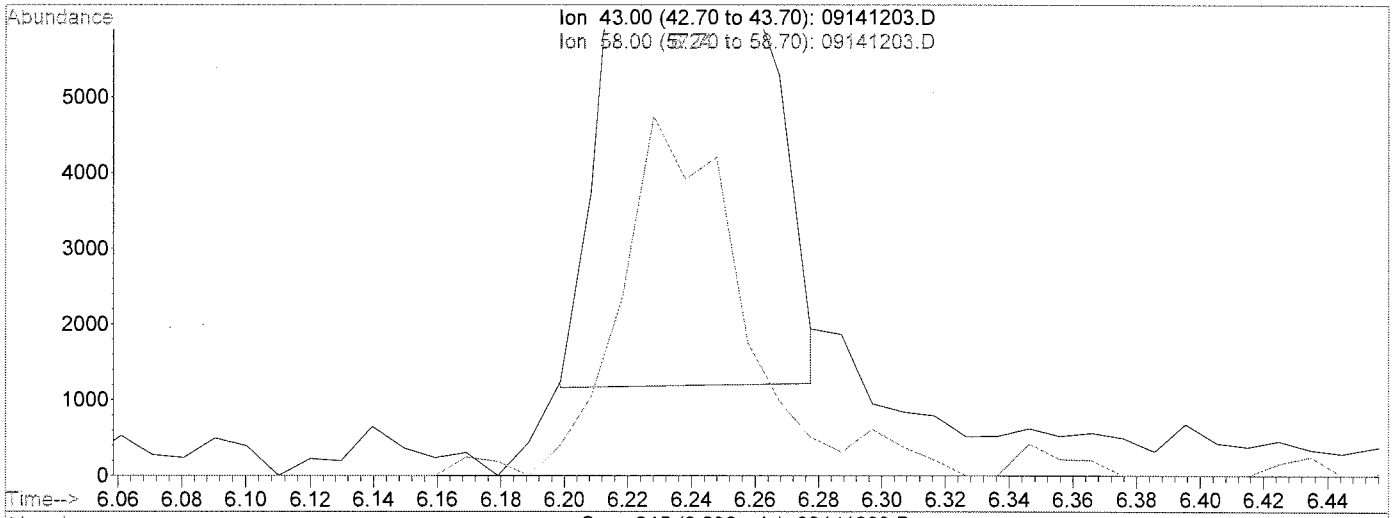
9/17/12

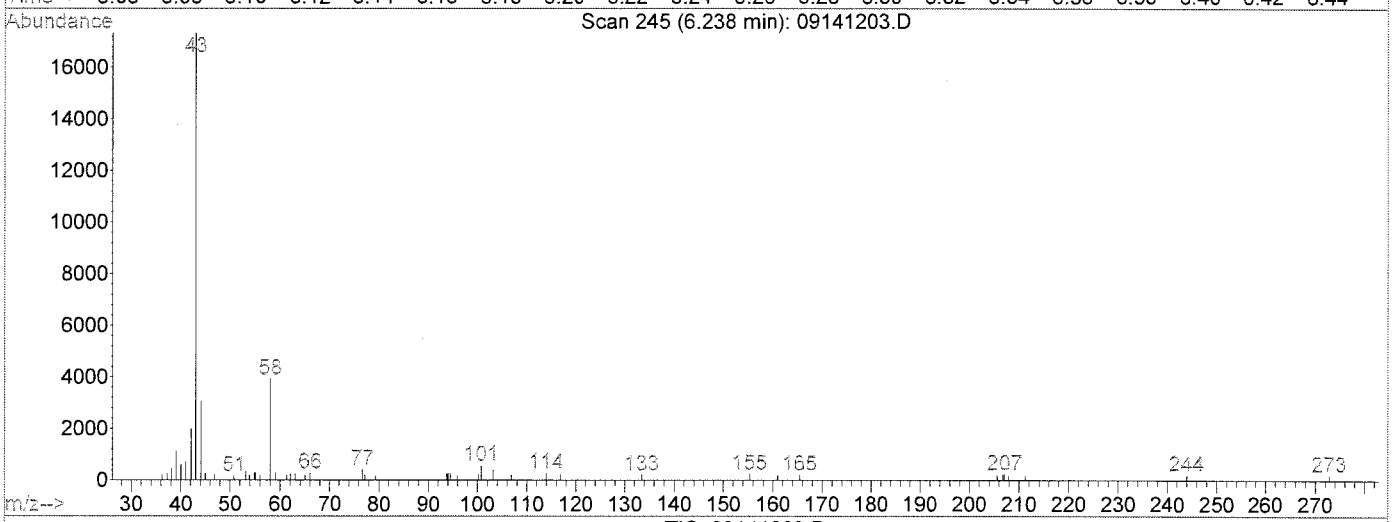
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141203.D

(12) Acetone (T)

6.24min 31.67ug/L m

response 37726

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.34
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	67676	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	282998	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	397045	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	299511	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	121486	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	127769	25.81 ug/L	-0.02
Spiked Amount 25.000			Recovery =	103.24%	
48) Toluene-d8	13.31	98	383626	24.47 ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.88%	
62) 4-Bromofluorobenzene	16.94	95	118474	25.60 ug/L	-0.01
Spiked Amount 25.000			Recovery =	102.40%	
Target Compounds					Qvalue
2) Ethanol	5.38	45	81187	2225.14 ug/L #	72
3) tert-Butanol (TBA)	6.81	59	52949	133.75 ug/L	99
5) Dichlorodifluoromethane	4.09	85	310650	29.92 ug/L	100
6) Chloromethane	4.33	50	280739	27.78 ug/L	97
7) Vinyl Chloride	4.62	62	240985	26.06 ug/L	98
8) 1,3-Butadiene	4.77	54	190397	38.06 ug/L	97
9) Bromomethane	5.18	94	154436	27.34 ug/L	98
10) Chloroethane	5.36	64	113565	24.76 ug/L	97
11) Trichlorofluoromethane	6.09	101	281351	34.42 ug/L	99
12) Acetone	6.24	43	37726m	31.67 ug/L	
13) Iodomethane	6.84	142	272803	28.55 ug/L #	90
14) 1,1-Dichloroethene	6.79	96	146722	25.79 ug/L	95
15) Methylene Chloride	6.98	84	115797	22.86 ug/L	94
16) Freon 113	7.05	101	176258	29.91 ug/L	99
17) Carbon disulfide	7.28	76	486270	26.28 ug/L #	95
18) trans-1,2-Dichloroethene	7.84	96	146040	22.13 ug/L	98
19) MTBE	7.98	73	226146	24.24 ug/L	95
20) 1,1-Dichloroethane	8.16	63	222914	21.76 ug/L	99
21) Vinyl Acetate	8.32	43	173352	23.87 ug/L	100
22) n-Hexane	8.67	86	33403	20.62 ug/L	97
23) 2-Butanone (MEK)	8.70	72	11600	28.46 ug/L #	79
24) Diisopropyl Ether (DIPE)	8.72	45	373319	21.58 ug/L #	88
25) cis-1,2-Dichloroethene	8.89	96	140253	23.35 ug/L	99
26) Bromochloromethane	9.10	128	52659	22.09 ug/L	95
27) Chloroform	9.15	83	207470	23.15 ug/L	98
28) 2,2-Dichloropropane	9.26	77	186677	27.51 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	283772	22.72 ug/L	98
31) Tetrahydrofuran	9.58	72	6632	17.89 ug/L	87
32) 1,2-Dichloroethane	10.00	62	116340	26.91 ug/L	95
33) 1,1,1-Trichloroethane	10.11	97	205948	27.43 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	225445	22.40 ug/L	97
36) 1,1-Dichloropropene	10.35	75	169164	19.92 ug/L	96
37) Carbon Tetrachloride	10.59	117	193774	29.11 ug/L	98
38) Benzene	10.63	78	445194	21.97 ug/L	99
39) Dibromomethane	11.37	93	54521	22.79 ug/L	95
40) 1,2-Dichloropropane	11.41	63	99297	20.57 ug/L #	91

(#) = qualifier out of range (m) = manual integration
09141203.D 081012.M Fri Sep 14 14:33:33 2012

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.46	95	131751	23.20 ug/L	97
42)	Bromodichloromethane	11.53	83	140183	25.23 ug/L	97
43)	2-Chlorovinylethylether	12.07	63	35208	19.30 ug/L	96
44)	cis-1,3-Dichloropropene	12.37	75	155732	24.04 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	66040	22.71 ug/L	98
46)	trans-1,3-Dichloropropene	12.94	75	119679	24.29 ug/L	96
47)	1,1,2-Trichloroethane	13.15	97	68043	24.22 ug/L	95
49)	Toluene	13.40	92	269783	23.41 ug/L	99
51)	1,3-Dichloropropane	13.47	76	113058	21.26 ug/L	100
52)	2-Hexanone	13.66	43	57164	25.71 ug/L	97
53)	Dibromochloromethane	13.83	129	93109	24.15 ug/L	98
54)	1,2-Dibromoethane	14.17	107	71643	22.17 ug/L	99
55)	Tetrachloroethene	14.39	164	111870	21.20 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.20	131	101863	24.09 ug/L	96
57)	Chlorobenzene	15.31	112	284773	23.16 ug/L	99
58)	Ethylbenzene	15.56	91	503066	23.42 ug/L	99
59)	m,p-Xylenes	15.83	106	199813	24.38 ug/L	96
60)	Styrene	16.28	104	256841	23.41 ug/L	98
61)	o-Xylene	16.38	106	179955	23.76 ug/L	98
64)	Bromoform	16.00	173	53303	25.49 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.37	83	72107	22.10 ug/L	95
66)	1,2,3-Trichloropropane	16.58	110	18911	24.05 ug/L	95
67)	trans-1,4-Dichloro-2-buten	16.61	53	16122	20.33 ug/L	92
68)	Isopropylbenzene	16.88	105	485476	26.76 ug/L	98
69)	Bromobenzene	17.23	156	103094	23.32 ug/L	99
70)	n-Propylbenzene	17.49	91	565855	24.57 ug/L	97
71)	2-Chlorotoluene	17.63	91	310944	24.97 ug/L	99
72)	4-Chlorotoluene	17.74	91	304649	25.01 ug/L	97
73)	1,3,5-Trimethylbenzene	17.89	105	369890	26.14 ug/L	99
74)	tert-Butylbenzene	18.29	119	336131	26.60 ug/L	99
75)	1,2,4-Trimethylbenzene	18.44	105	338386	25.28 ug/L	98
76)	sec-Butylbenzene	18.59	105	504237	24.66 ug/L	99
77)	1,3-Dichlorobenzene	18.70	146	197557	24.55 ug/L	96
78)	1,4-Dichlorobenzene	18.79	146	185750	23.55 ug/L	98
79)	p-Isopropyltoluene	18.84	119	390745	25.50 ug/L	98
80)	1,2-Dichlorobenzene	19.26	146	156721	23.92 ug/L	98
81)	n-Butylbenzene	19.38	91	360768	24.55 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.84	75	8610	26.16 ug/L	94
83)	1,2,4-Trichlorobenzene	21.49	180	89509	25.48 ug/L	100
84)	Napthalene	21.81	128	146397	26.05 ug/L	99
85)	Hexachlorobutadiene	21.87	225	80333	33.88 ug/L	96
86)	1,2,3-Trichlorobenzene	22.06	180	73514	25.85 ug/L	100

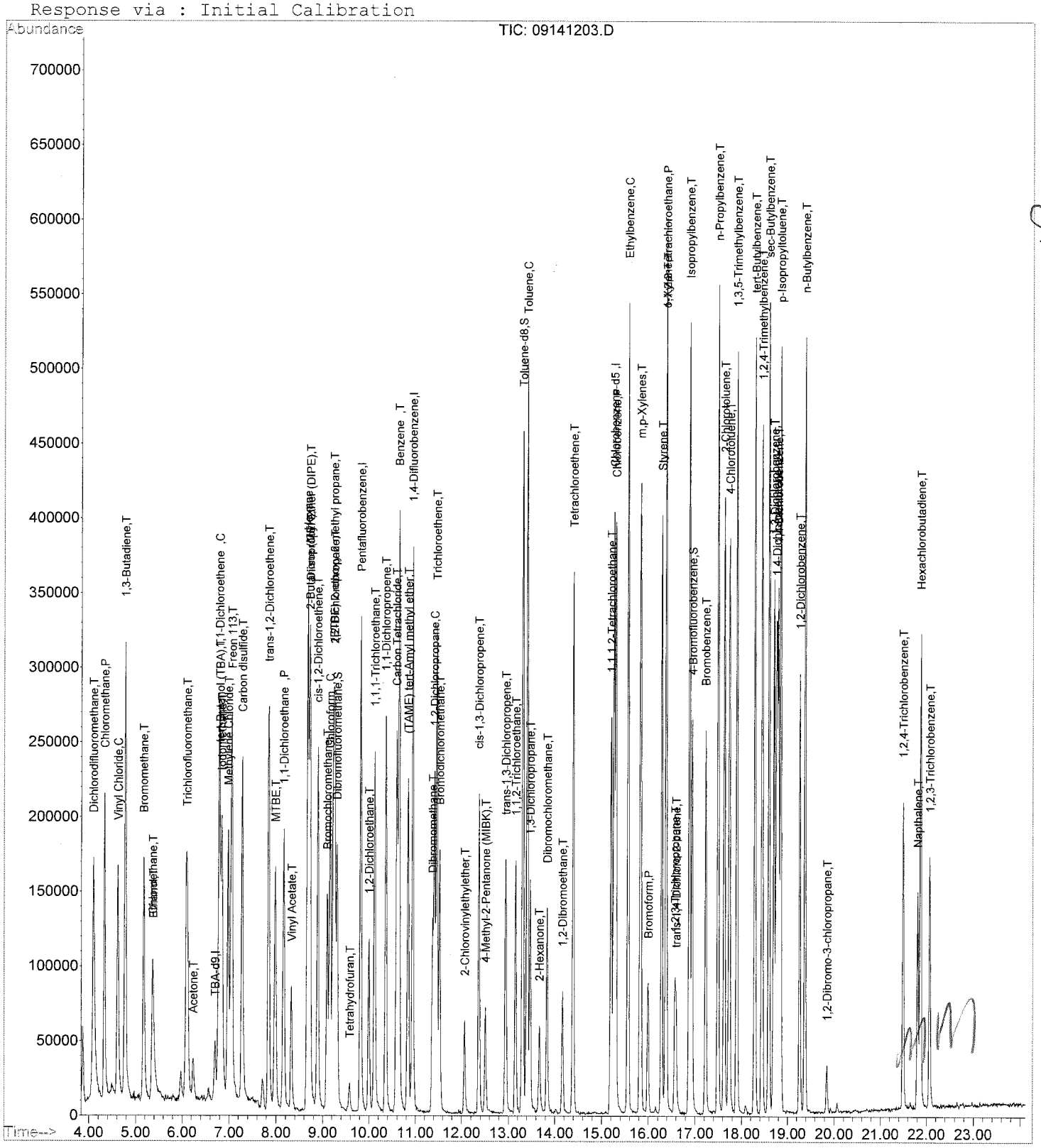
MM

(#) = qualifier out of range (m) = manual integration
09141203.D 081012.M Fri Sep 14 14:33:33 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

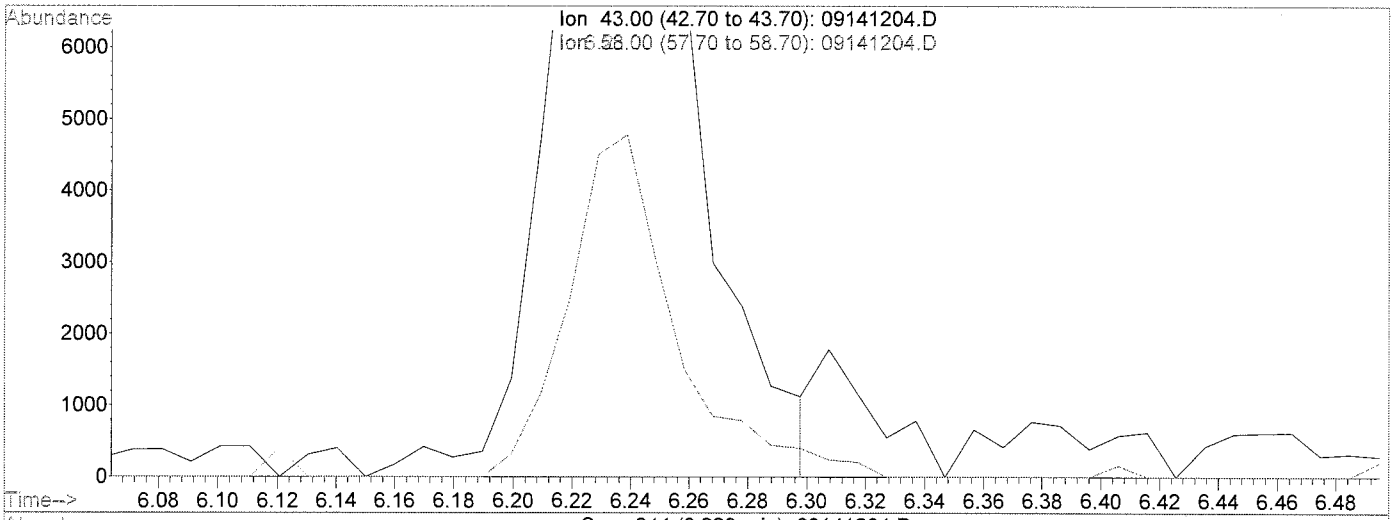
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

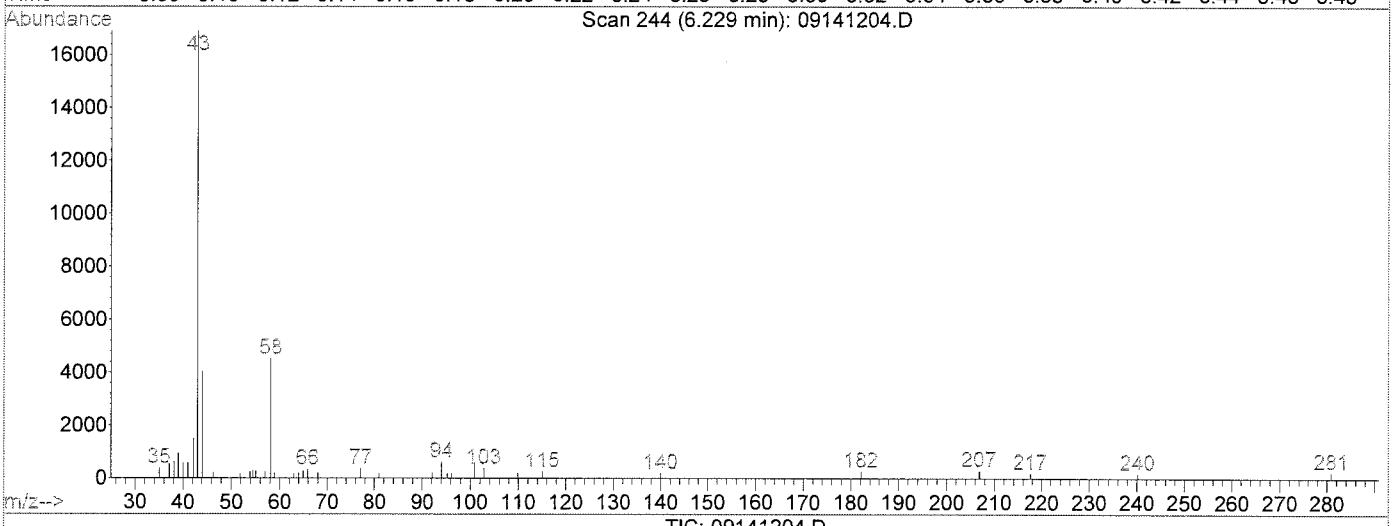


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141204.D

(12) Acetone (T)

6.23min 40.16ug/L

response 44483

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.41
0.00	0.00	0.00
0.00	0.00	0.00

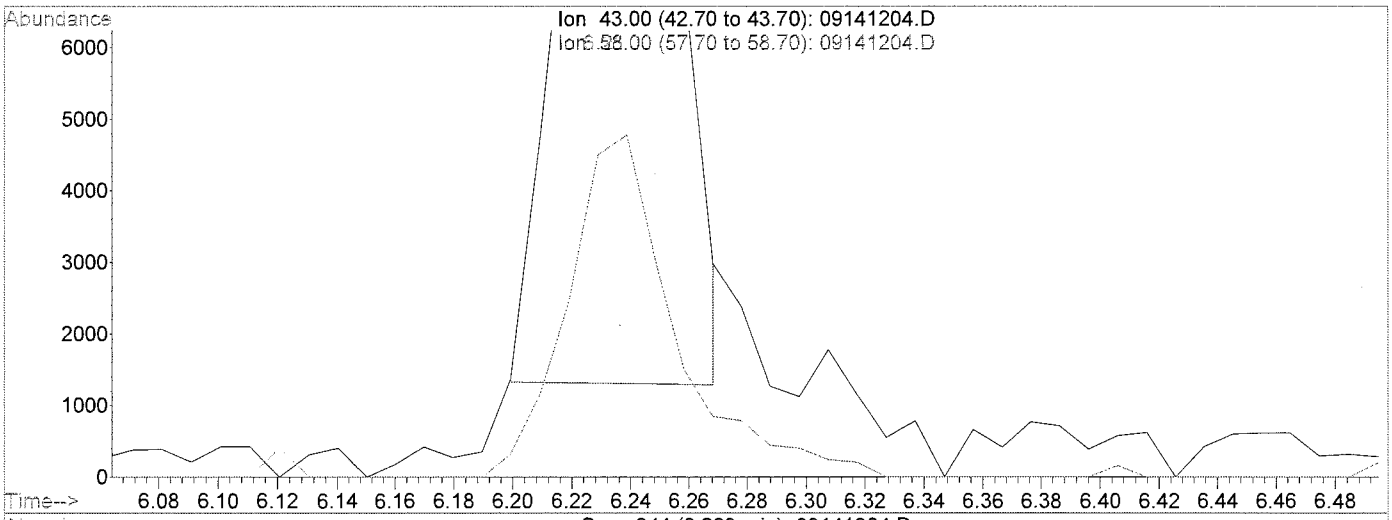
-9/17/12

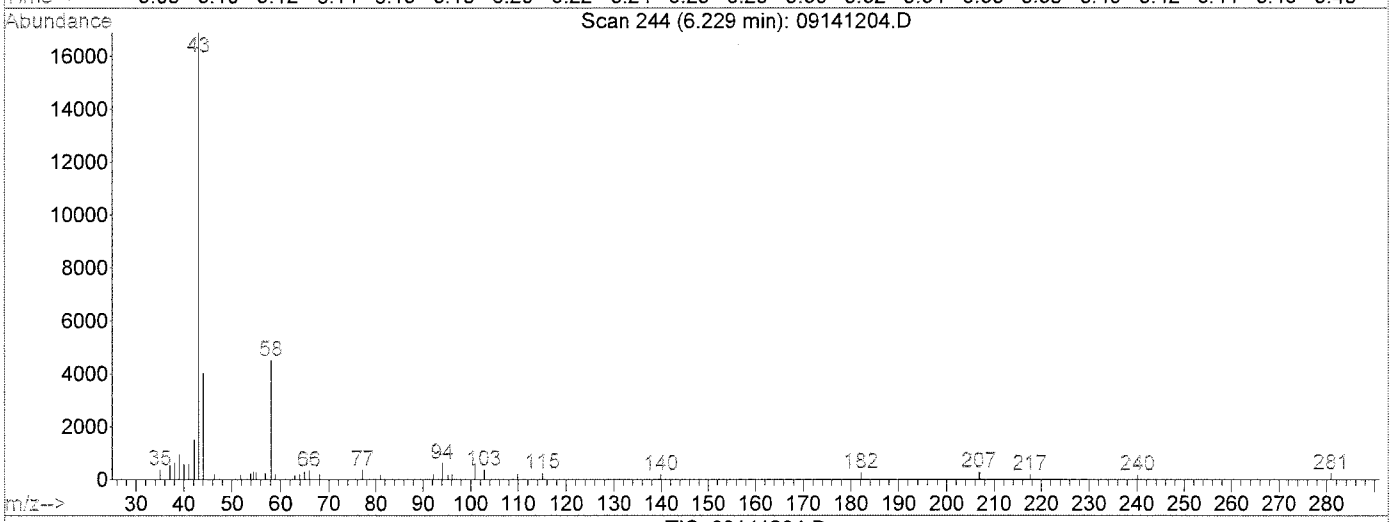
B BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141204.D

(12) Acetone (T)

6.23min 31.36ug/L m

response 34734

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.10
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	73749	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	263076	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	377771	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	279392	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	118242	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	123597	26.86 ug/L	-0.02
Spiked Amount 25.000			Recovery =	107.44%	
48) Toluene-d8	13.31	98	367093	24.61 ug/L	-0.01
Spiked Amount 25.000			Recovery =	98.44%	
62) 4-Bromofluorobenzene	16.93	95	112772	26.12 ug/L	-0.02
Spiked Amount 25.000			Recovery =	104.48%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	73883	1858.21 ug/L #	72
3) tert-Butanol (TBA)	6.81	59	57505	133.30 ug/L	99
5) Dichlorodifluoromethane	4.09	85	302576	31.34 ug/L	100
6) Chloromethane	4.33	50	267229	28.45 ug/L	96
7) Vinyl Chloride	4.62	62	241272	28.06 ug/L	100
8) 1,3-Butadiene	4.77	54	189091	40.67 ug/L	98
9) Bromomethane	5.17	94	155015	29.53 ug/L	98
10) Chloroethane	5.36	64	103658	24.31 ug/L	96
11) Trichlorofluoromethane	6.09	101	271279	35.70 ug/L	99
12) Acetone	6.23	43	34734m	31.36 ug/L	
13) Iodomethane	6.84	142	267888	30.16 ug/L #	90
14) 1,1-Dichloroethene	6.78	96	143553	27.14 ug/L	98
15) Methylene Chloride	6.98	84	111675	23.71 ug/L	98
16) Freon 113	7.06	101	166603	30.41 ug/L	98
17) Carbon disulfide	7.27	76	470477	27.35 ug/L	98
18) trans-1,2-Dichloroethene	7.84	96	139354	22.72 ug/L	99
19) MTBE	7.98	73	225574	26.01 ug/L	97
20) 1,1-Dichloroethane	8.16	63	218689	22.96 ug/L	97
21) Vinyl Acetate	8.31	43	163976	24.29 ug/L	99
22) n-Hexane	8.67	86	32454	21.56 ug/L	90
23) 2-Butanone (MEK)	8.70	72	10261	27.08 ug/L #	43
24) Diisopropyl Ether (DIPE)	8.72	45	356463	22.17 ug/L #	85
25) cis-1,2-Dichloroethene	8.89	96	138327	24.77 ug/L	93
26) Bromochloromethane	9.09	128	55820	25.18 ug/L	95
27) Chloroform	9.15	83	200315	24.04 ug/L #	96
28) 2,2-Dichloropropane	9.26	77	176763	28.02 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	282053	24.30 ug/L	97
31) Tetrahydrofuran	9.57	72	6636	19.26 ug/L	91
32) 1,2-Dichloroethane	10.00	62	111630	27.77 ug/L	95
33) 1,1,1-Trichloroethane	10.11	97	196566	28.17 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	226530	24.21 ug/L	97
36) 1,1-Dichloropropene	10.35	75	162253	20.08 ug/L	97
37) Carbon Tetrachloride	10.59	117	180898	28.56 ug/L	98
38) Benzene	10.64	78	417774	21.67 ug/L	98
39) Dibromomethane	11.36	93	54695	24.03 ug/L	99
40) 1,2-Dichloropropane	11.41	63	96770	21.07 ug/L	92

(#) = qualifier out of range (m) = manual integration
09141204.D 081012.M Fri Sep 14 14:34:10 2012

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Trichloroethene	11.46	95	127158	23.53	ug/L		99
42)	Bromodichloromethane	11.53	83	130469	24.68	ug/L		95
43)	2-Chlorovinylethylether	12.07	63	35833	20.64	ug/L		96
44)	cis-1,3-Dichloropropene	12.37	75	145539	23.61	ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	65284	23.59	ug/L		97
46)	trans-1,3-Dichloropropene	12.94	75	114100	24.34	ug/L		95
47)	1,1,2-Trichloroethane	13.15	97	67651	25.31	ug/L		98
49)	Toluene	13.40	92	255687	23.32	ug/L		97
51)	1,3-Dichloropropane	13.47	76	105724	21.31	ug/L		99
52)	2-Hexanone	13.67	43	56216	27.11	ug/L		97
53)	Dibromochloromethane	13.83	129	97447	27.09	ug/L		92
54)	1,2-Dibromoethane	14.17	107	74438	24.69	ug/L		99
55)	Tetrachloroethene	14.39	164	105875	21.51	ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.20	131	98741	25.04	ug/L		98
57)	Chlorobenzene	15.30	112	267626	23.33	ug/L		99
58)	Ethylbenzene	15.56	91	474955	23.71	ug/L		100
59)	m,p-Xylenes	15.83	106	185738	24.30	ug/L		99
60)	Styrene	16.28	104	246763	24.11	ug/L		97
61)	o-Xylene	16.38	106	173486	24.56	ug/L		97
64)	Bromoform	16.00	173	55014	27.03	ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.37	83	74636	23.50	ug/L		98
66)	1,2,3-Trichloropropane	16.57	110	21642	28.27	ug/L	#	91
67)	trans-1,4-Dichloro-2-buten	16.61	53	17699	22.80	ug/L		97
68)	Isopropylbenzene	16.88	105	472854	26.78	ug/L		99
69)	Bromobenzene	17.23	156	101278	23.54	ug/L		97
70)	n-Propylbenzene	17.49	91	549481	24.51	ug/L		98
71)	2-Chlorotoluene	17.63	91	297548	24.55	ug/L		98
72)	4-Chlorotoluene	17.74	91	289660	24.44	ug/L		100
73)	1,3,5-Trimethylbenzene	17.89	105	354347	25.73	ug/L		98
74)	tert-Butylbenzene	18.29	119	312438	25.40	ug/L		97
75)	1,2,4-Trimethylbenzene	18.45	105	328844	25.24	ug/L		99
76)	sec-Butylbenzene	18.59	105	496652	24.95	ug/L		99
77)	1,3-Dichlorobenzene	18.70	146	183512	23.43	ug/L		95
78)	1,4-Dichlorobenzene	18.79	146	177148	23.07	ug/L		98
79)	p-Isopropyltoluene	18.84	119	378636	25.39	ug/L		98
80)	1,2-Dichlorobenzene	19.26	146	153108	24.01	ug/L		97
81)	n-Butylbenzene	19.38	91	341424	23.87	ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.84	75	9329	29.24	ug/L		90
83)	1,2,4-Trichlorobenzene	21.48	180	85897	25.13	ug/L		97
84)	Napthalene	21.81	128	145835	26.66	ug/L		98
85)	Hexachlorobutadiene	21.87	225	78848	34.19	ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	71185	25.71	ug/L		98

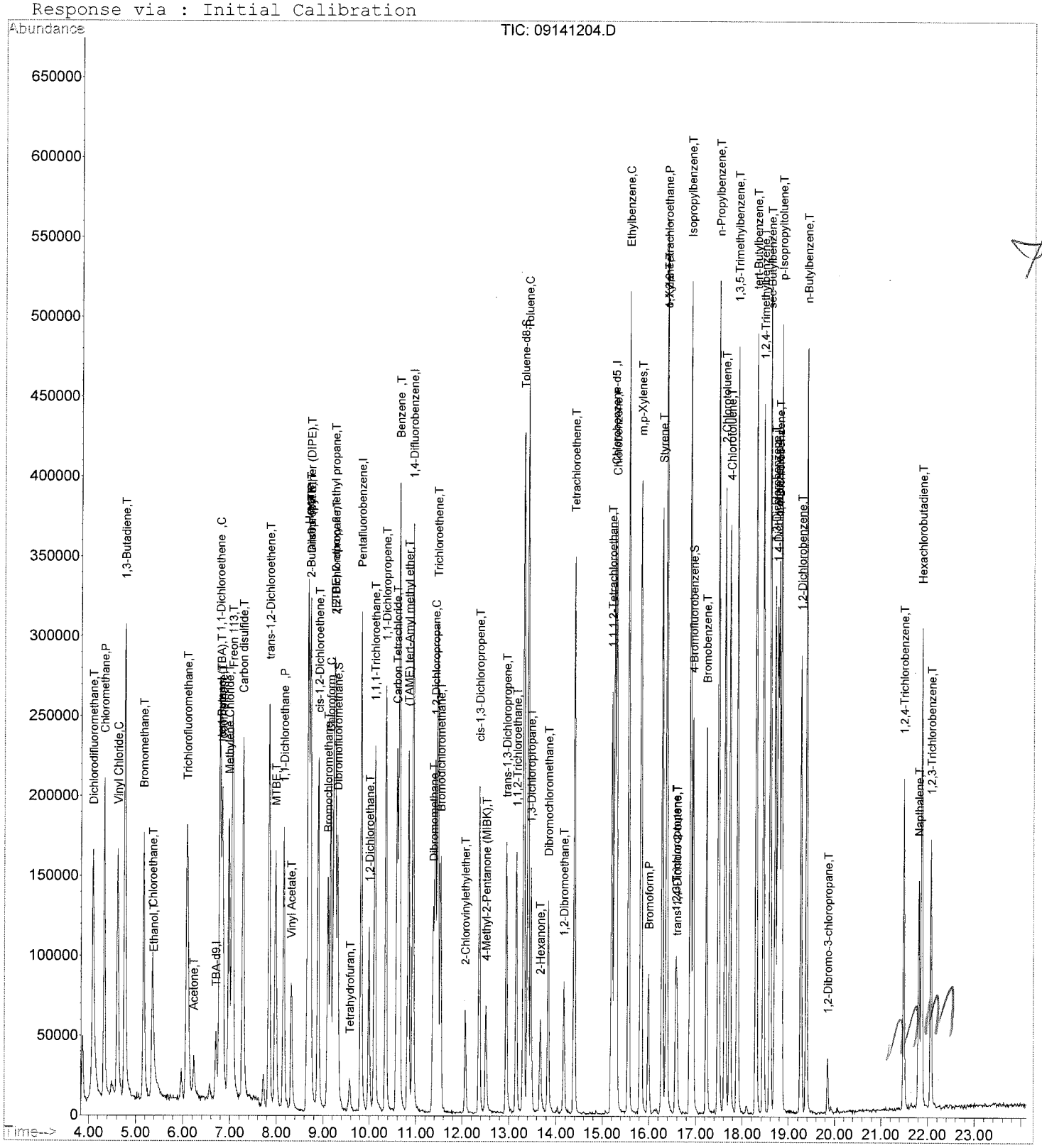
MNM

(#) = qualifier out of range (m) = manual integration
09141204.D 081012.M Fri Sep 14 14:34:11 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141205.D Vial: 5
Acq On : 14 Sep 2012 8:28 am Operator: MNM
Sample : 12I0474-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	59852	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	277534	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	389725	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	267239	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	102024	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	126710	26.10 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 104.40%	
48) Toluene-d8	13.30	98	368943	23.97 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 95.88%	
62) 4-Bromofluorobenzene	16.93	95	102976	24.94 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 99.76%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	66187	2051.16 ug/L #	58
3) tert-Butanol (TBA)	6.84	59	98	0.28 ug/L #	1
8) 1,3-Butadiene	4.76	54	839	0.17 ug/L #	60
9) Bromomethane	5.10	94	1396	0.25 ug/L #	19
12) Acetone	6.26	43	5687	4.87 ug/L #	72
15) Methylene Chloride	6.97	84	820	0.17 ug/L #	66
23) 2-Butanone (MEK)	8.63	72	141	0.35 ug/L #	1
31) Tetrahydrofuran	9.65	72	135	0.37 ug/L #	32
34) (TAME) tert-Amyl methyl et	10.93	73	3487	0.35 ug/L #	27
51) 1,3-Dichloropropane	13.31	76	4157	0.88 ug/L #	88 WRT
67) trans-1,4-Dichloro-2-buten	16.57	53	111	1.18 ug/L #	62
83) 1,2,4-Trichlorobenzene	21.50	180	516	0.17 ug/L #	82
84) Napthalene	21.83	128	1305	0.28 ug/L #	93
85) Hexachlorobutadiene	21.87	225	108	Below Cal #	1

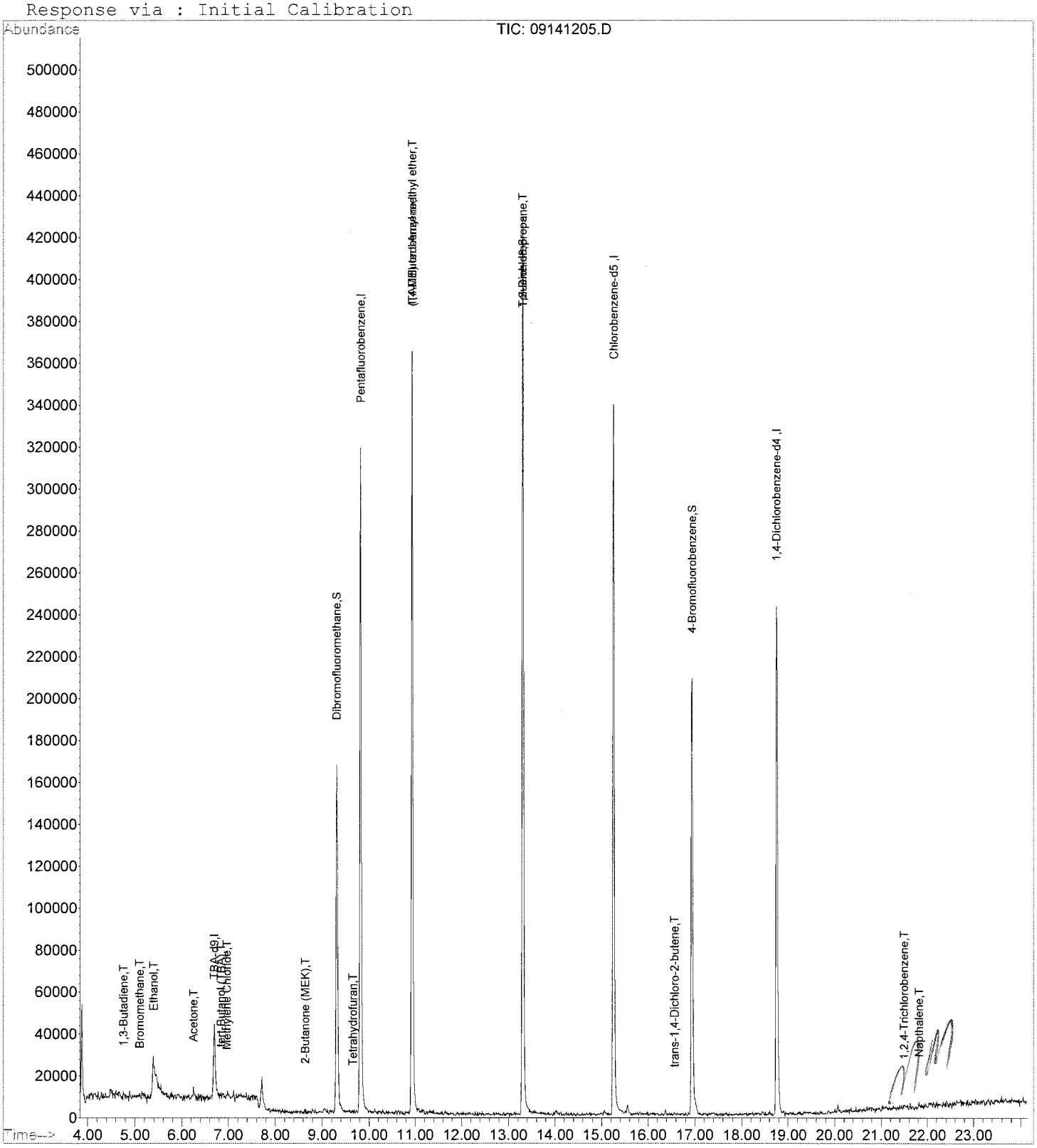
MM 9/17/12

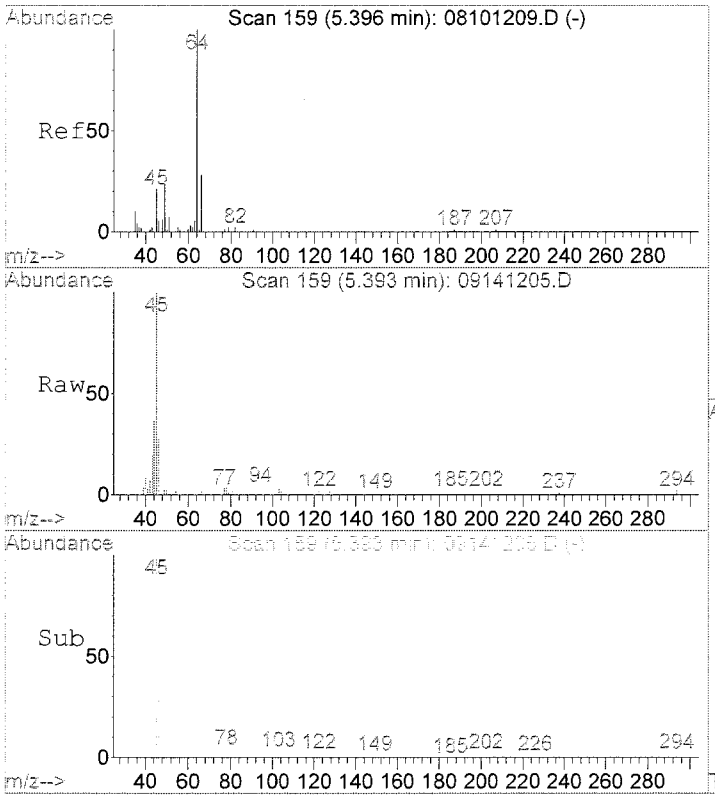
(#) = qualifier out of range (m) = manual integration
09141205.D 081012.M Fri Sep 14 14:34:34 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141205.D Vial: 5
Acq On : 14 Sep 2012 8:28 am Operator: MNM
Sample : 12I0474-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

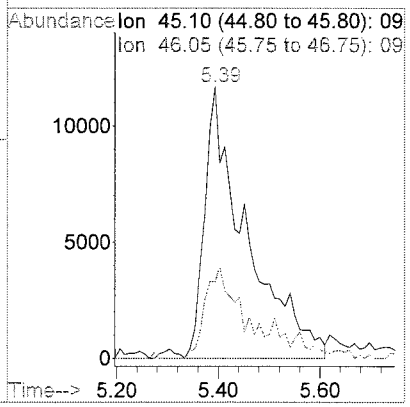


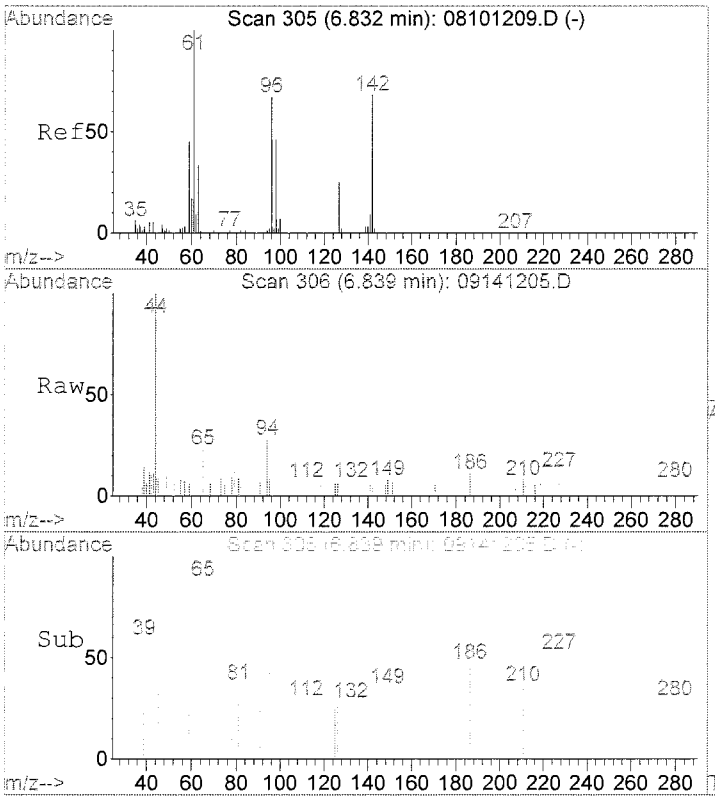


#2
Ethanol
Concen: 2051.16 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 45 Resp: 66187

Ion	Ratio	Lower	Upper
45	100		
46	28.3	39.9	79.9#

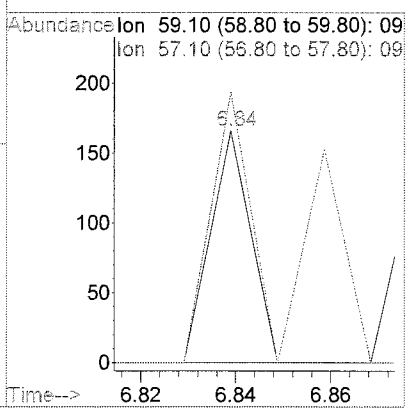


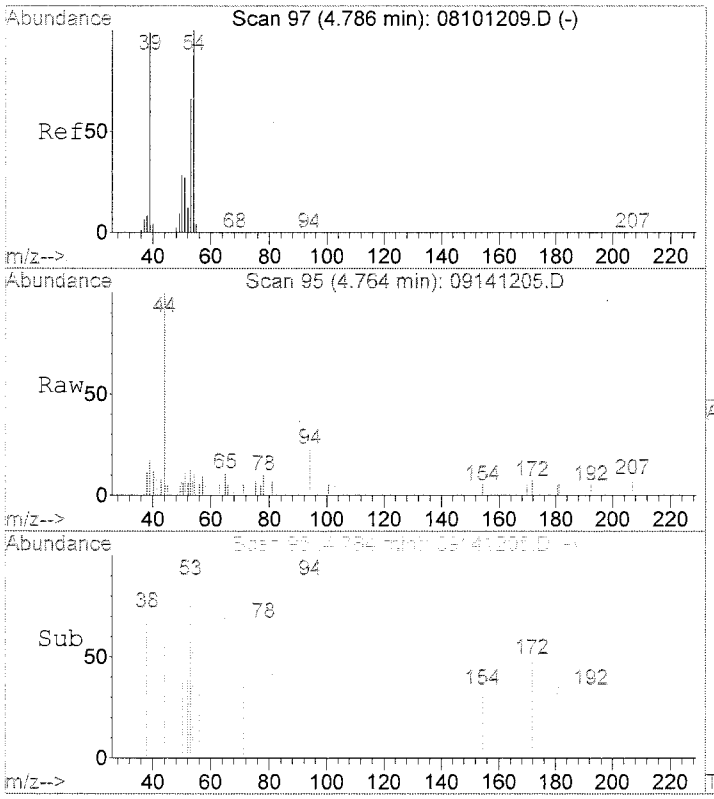


#3
tert-Butanol (TBA)
Concen: 0.28 ug/L
RT: 6.84 min Scan# 306
Delta R.T. 0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 59 Resp: 98

Ion	Ratio	Lower	Upper
59	100		
57	209.2	6.4	9.6#

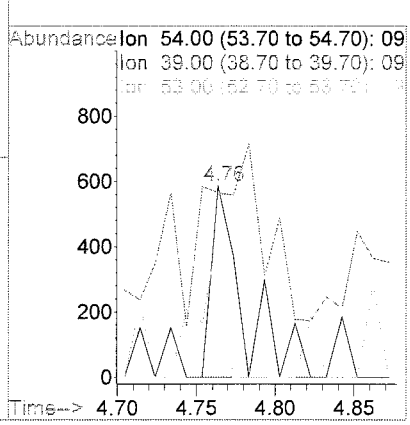


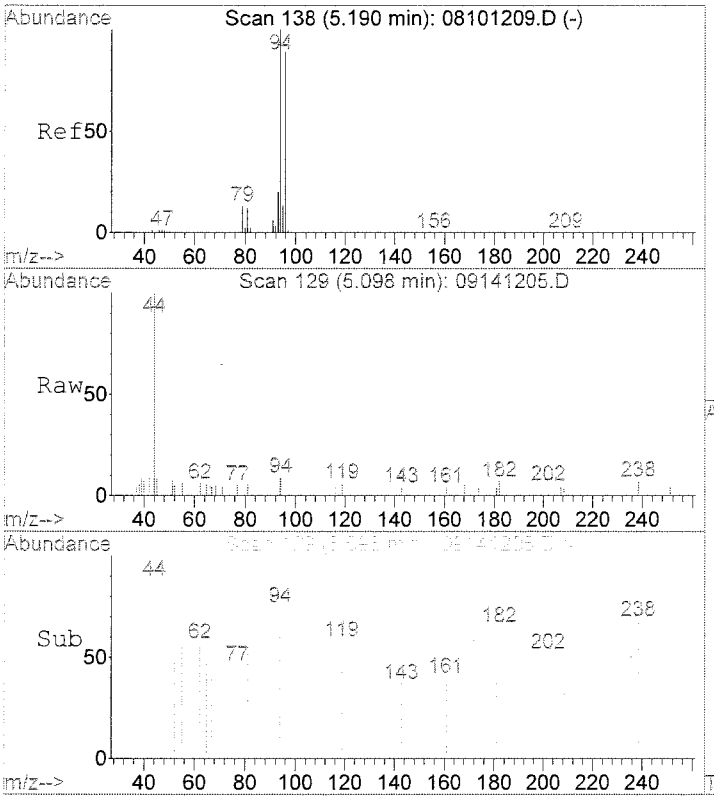


#8
1,3-Butadiene
Concen: 0.17 ug/L
RT: 4.76 min Scan# 95
Delta R.T. -0.02 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 54 Resp: 839

Ion	Ratio	Lower	Upper
54	100		
39	166.6	86.0	129.0#
53	57.9	56.2	84.4

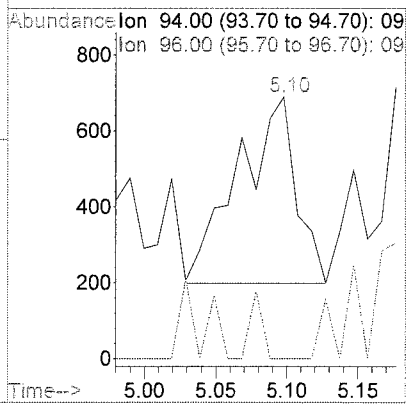




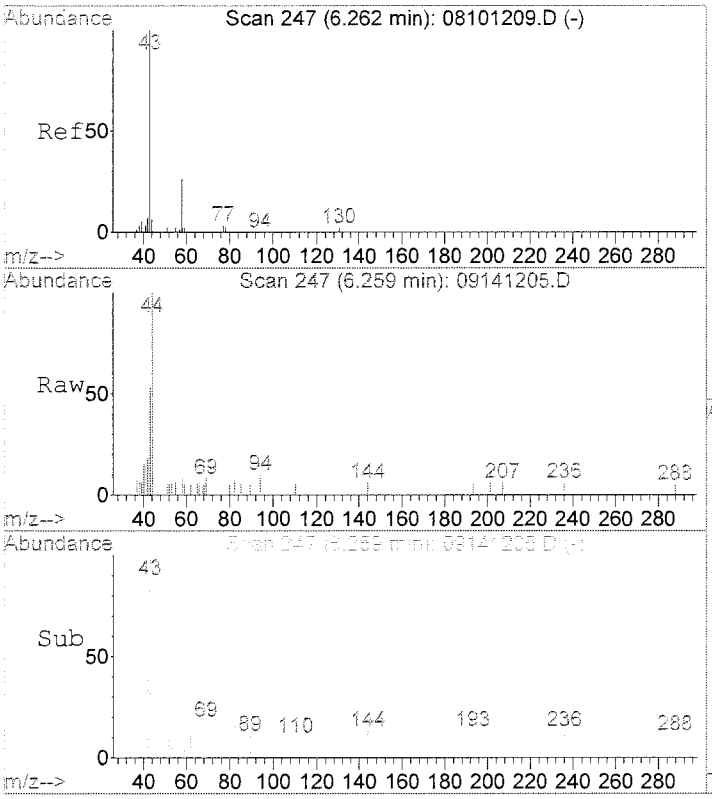
#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.10 min Scan# 129
Delta R.T. -0.09 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 94 Resp: 1396

Ion	Ratio	Lower	Upper
94	100		
96	15.9	75.8	113.6#



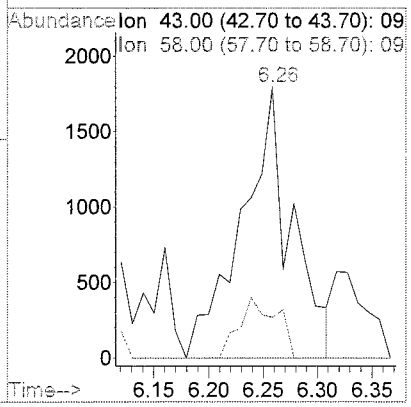
MM

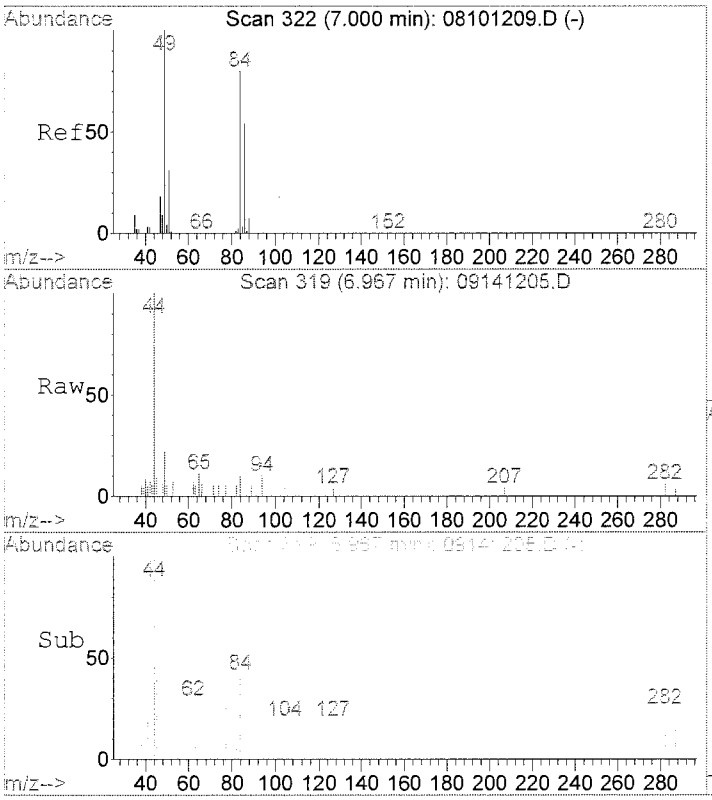


#12
Acetone
Concen: 4.87 ug/L
RT: 6.26 min Scan# 247
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 43 Resp: 5687

Ion	Ratio	Lower	Upper
43	100		
58	17.0	25.9	38.9#

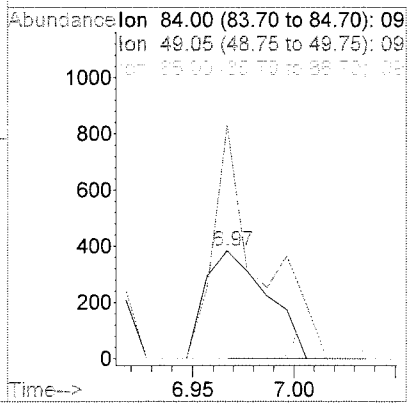


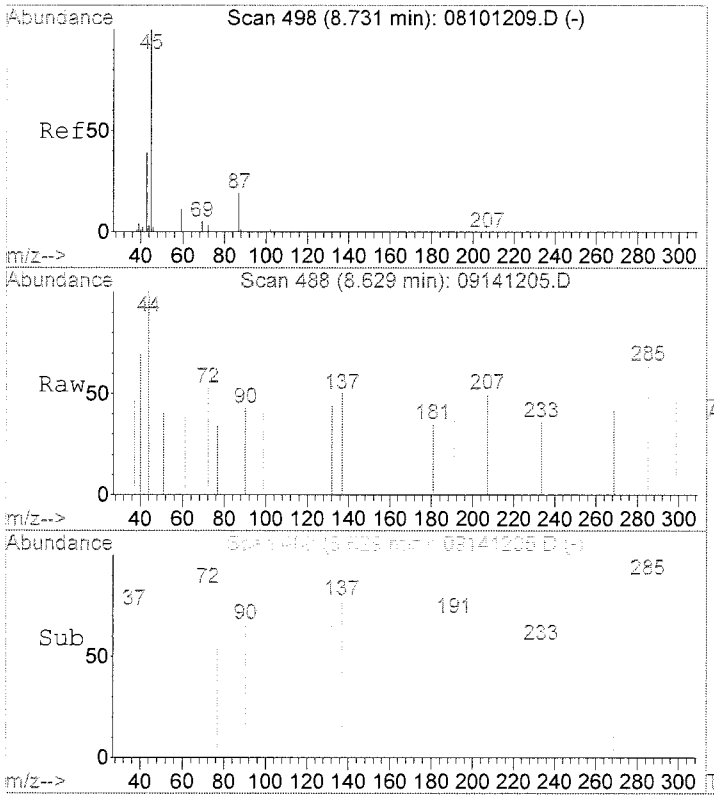


#15
Methylene Chloride
Concen: 0.17 ug/L
RT: 6.97 min Scan# 319
Delta R.T. -0.03 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 84 Resp: 820

Ion	Ratio	Lower	Upper
84	100		
49	159.4	103.4	155.0#
86	24.5	52.0	78.0#

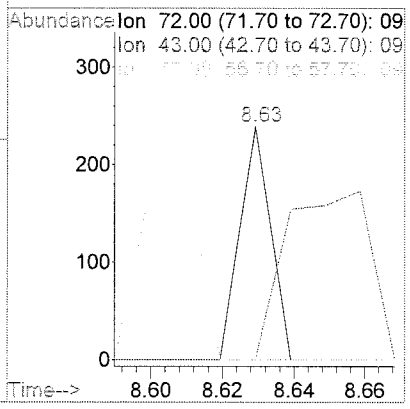




#23
2-Butanone (MEK)
Concen: 0.35 ug/L
RT: 8.63 min Scan# 488
Delta R.T. -0.10 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 72 Resp: 141

Ion	Ratio	Lower	Upper
72	100		
43	202.8	1366.5	2049.7#
57	157.4	0.0	0.0#



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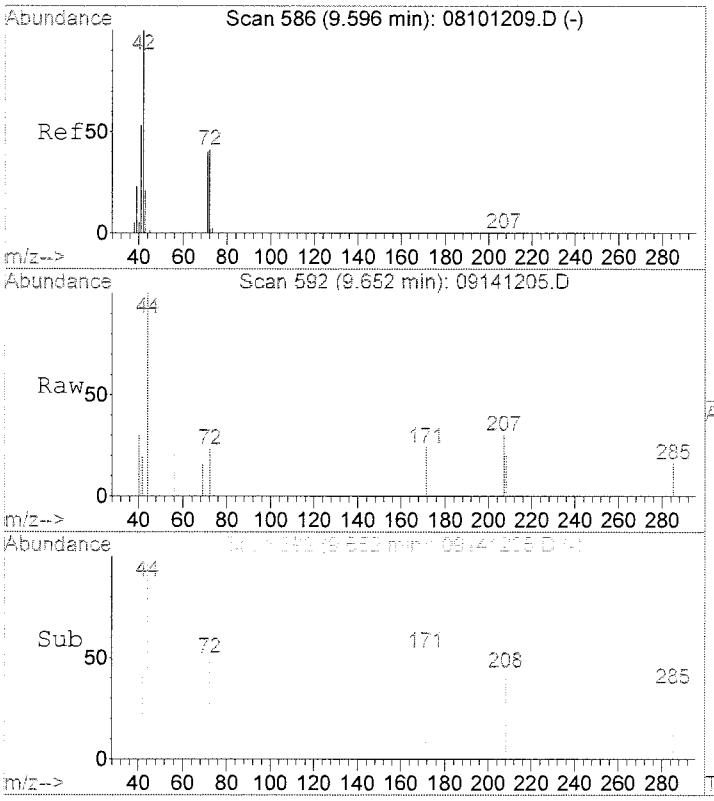
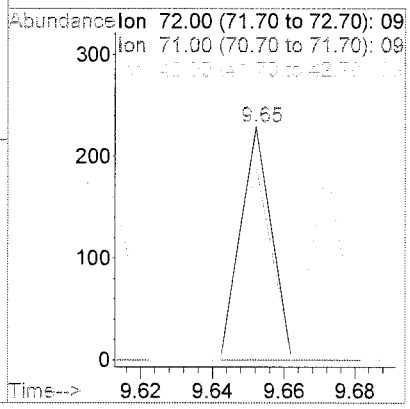


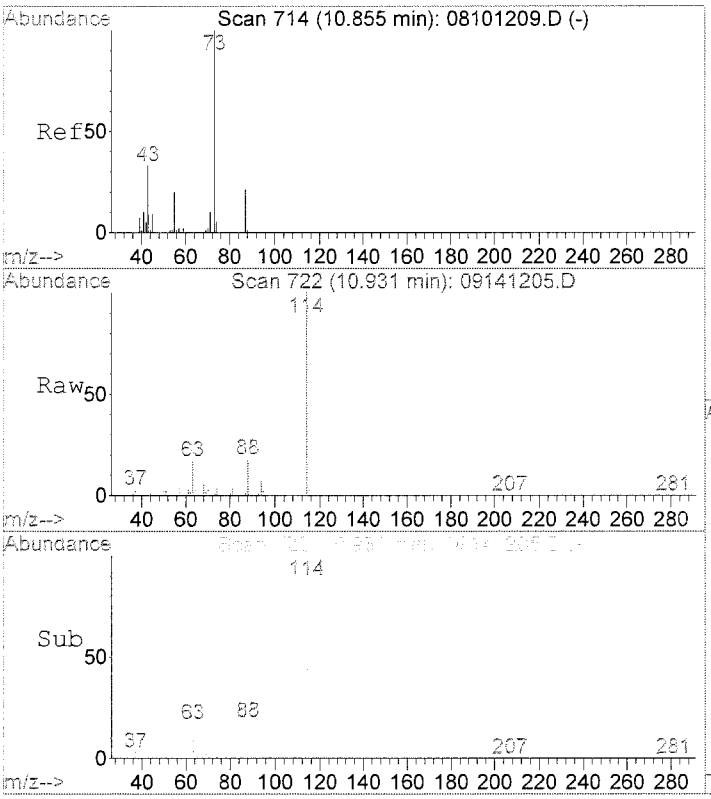
#31
Tetrahydrofuran
Concen: 0.37 ug/L
RT: 9.65 min Scan# 592
Delta R.T. 0.06 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 72 Resp: 135

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	166.7	217.1	325.7#



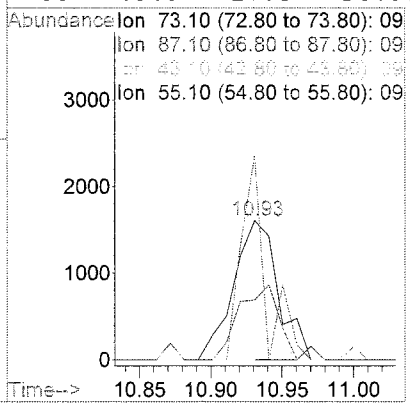
MM



#34
(TAME) tert-Amyl methyl ether
Concen: 0.35 ug/L
RT: 10.93 min Scan# 722
Delta R.T. 0.08 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 73 Resp: 3487

Ion	Ratio	Lower	Upper
73	100		
87	79.9	16.4	24.6#
43	6.5	27.0	40.4#
55	49.9	17.3	25.9#



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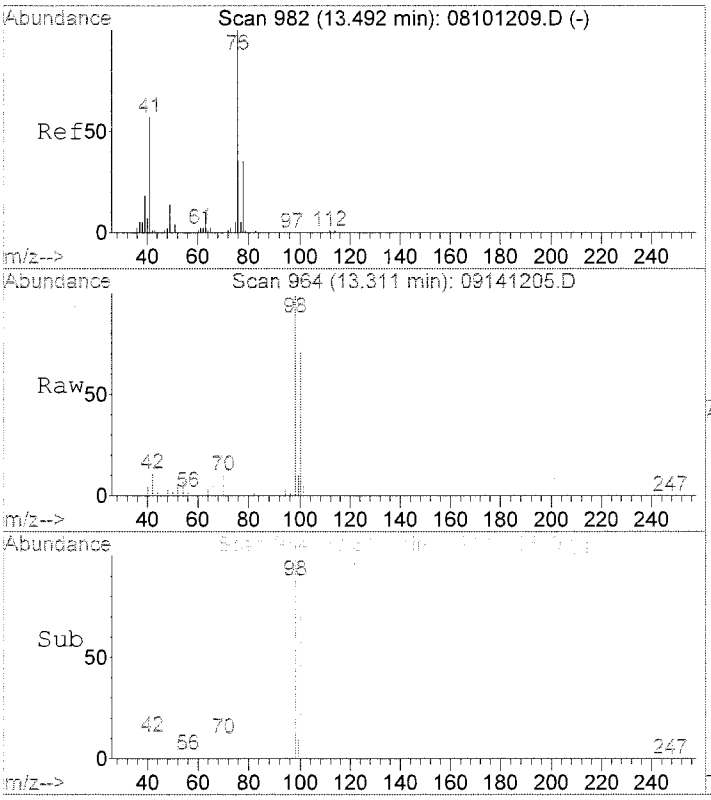
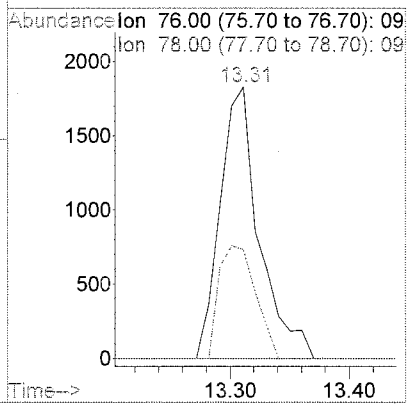


#51
1,3-Dichloropropane
Concen: 0.88 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

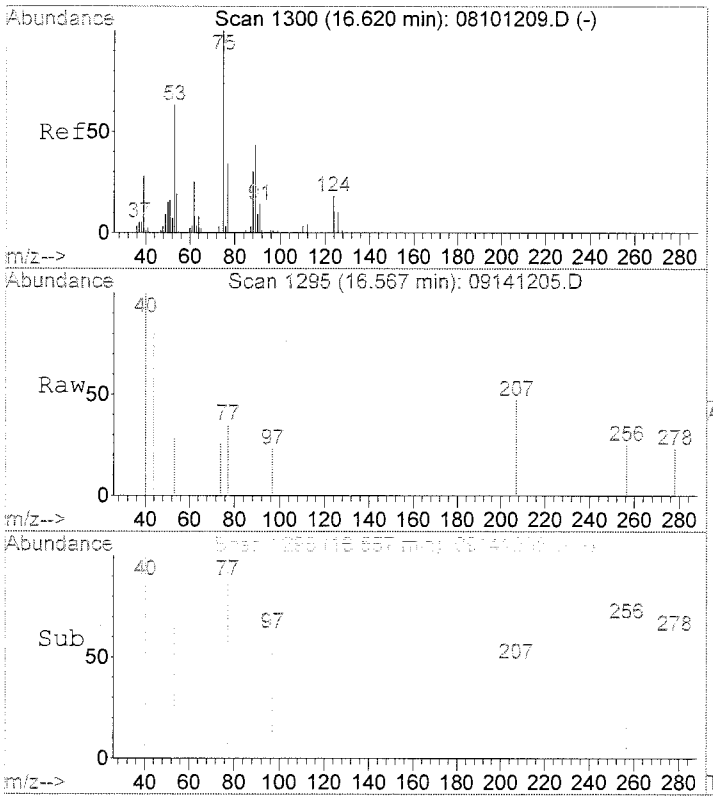
Tgt Ion: 76 Resp: 4157

Ion	Ratio	Lower	Upper
76	100		
78	39.4	26.1	39.1#

WRT



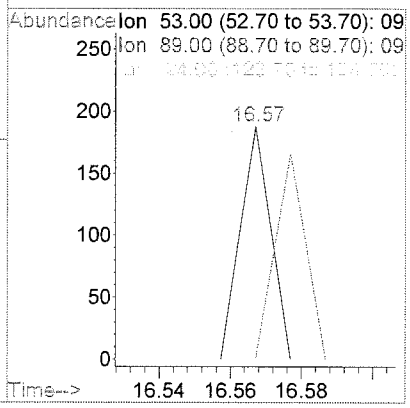
MM

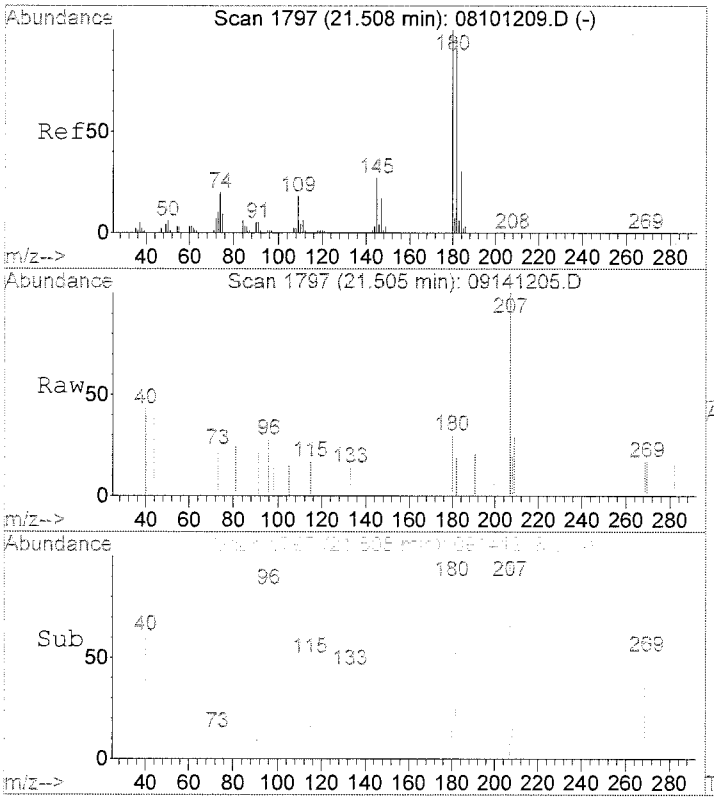


#67
trans-1,4-Dichloro-2-butene
Concen: 1.18 ug/L
RT: 16.57 min Scan# 1295
Delta R.T. -0.05 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 53 Resp: 111

Ion	Ratio	Lower	Upper
53	100		
89	88.3	50.5	75.7#
124	0.0	21.8	32.8#

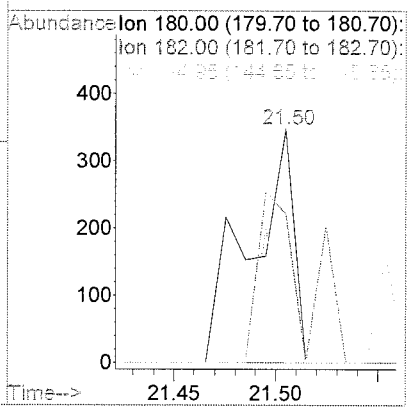


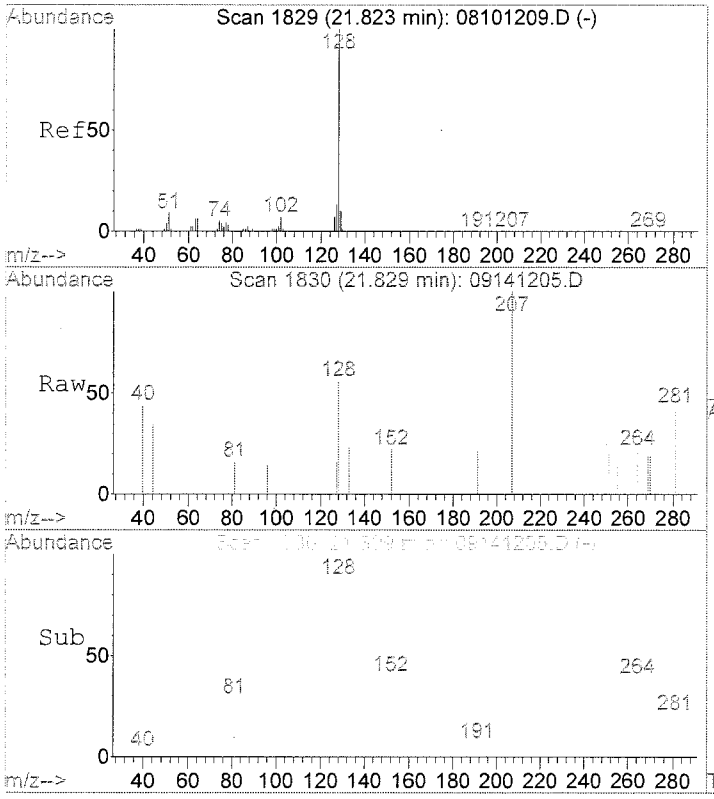


#83
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:180 Resp: 516

Ion	Ratio	Lower	Upper
180	100		
182	77.5	77.9	116.9#
145	23.1	22.8	34.2

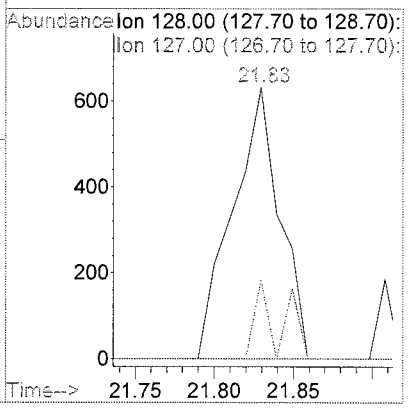




#84
Napthalene
Concen: 0.28 ug/L
RT: 21.83 min Scan# 1830
Delta R.T. 0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:128 Resp: 1305

Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.2	15.4#



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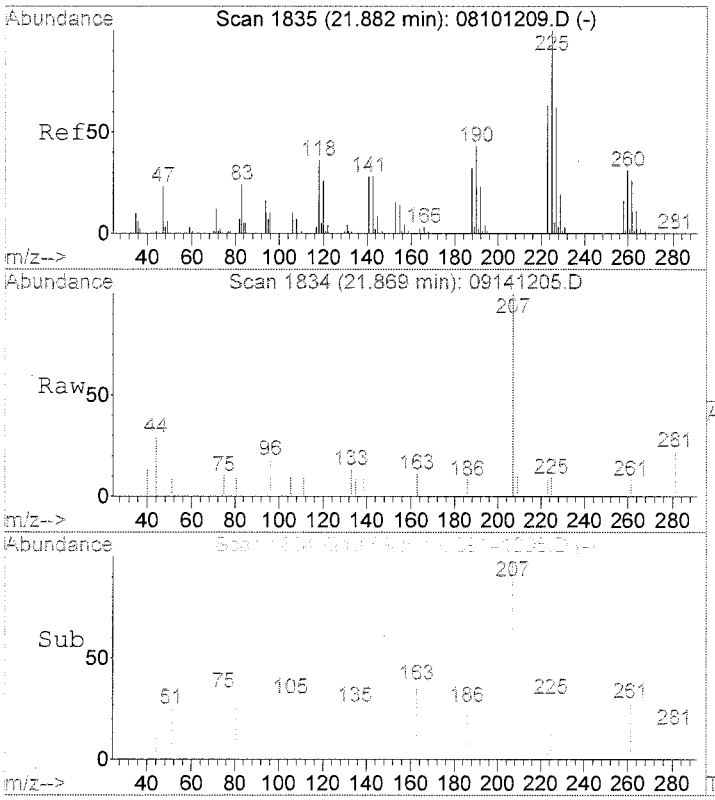
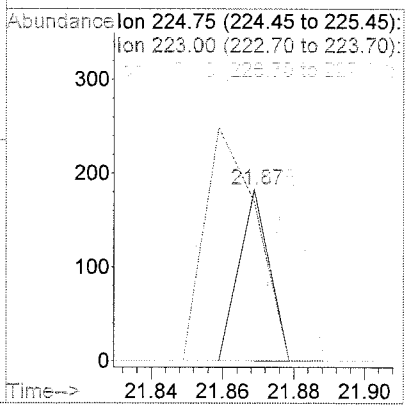


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.87 min Scan# 1834
Delta R.T. -0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:225 Resp: 108

Ion	Ratio	Lower	Upper
225	100		
223	228.7	47.8	71.8#
227	115.7	50.6	75.8#



MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141206.D Vial: 6
Acq On : 14 Sep 2012 9:01 am Operator: MNM
Sample : PVI0635-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Source

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	50804	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	268269	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	388581	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	273715	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	107678	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	125510	26.75 ug/L	-0.02
Spiked Amount 25.000			Recovery =	107.00%	
48) Toluene-d8	13.30	98	370933	24.17 ug/L	-0.02
Spiked Amount 25.000			Recovery =	96.68%	
62) 4-Bromofluorobenzene	16.93	95	105982	25.06 ug/L	-0.02
Spiked Amount 25.000			Recovery =	100.24%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	70146	2561.01 ug/L #	50
3) tert-Butanol (TBA)	6.80	59	130	0.44 ug/L #	1
9) Bromomethane	5.30	94	1140	0.21 ug/L #	16
12) Acetone	6.25	43	2974	2.63 ug/L #	49
27) Chloroform	9.15	83	4475	0.53 ug/L	94
31) Tetrahydrofuran	9.67	72	129	0.37 ug/L #	63
34) (TAME) tert-Amyl methyl et	10.94	73	3953	0.41 ug/L #	39
41) Trichloroethene	11.46	95	8095	1.46 ug/L	97
55) Tetrachloroethene	14.39	164	4571	0.95 ug/L	93
66) 1,2,3-Trichloropropane	16.60	110	109	0.16 ug/L #	29
67) trans-1,4-Dichloro-2-buten	16.61	53	97	1.15 ug/L #	27
85) Hexachlorobutadiene	21.79	225	92	Below Cal #	32

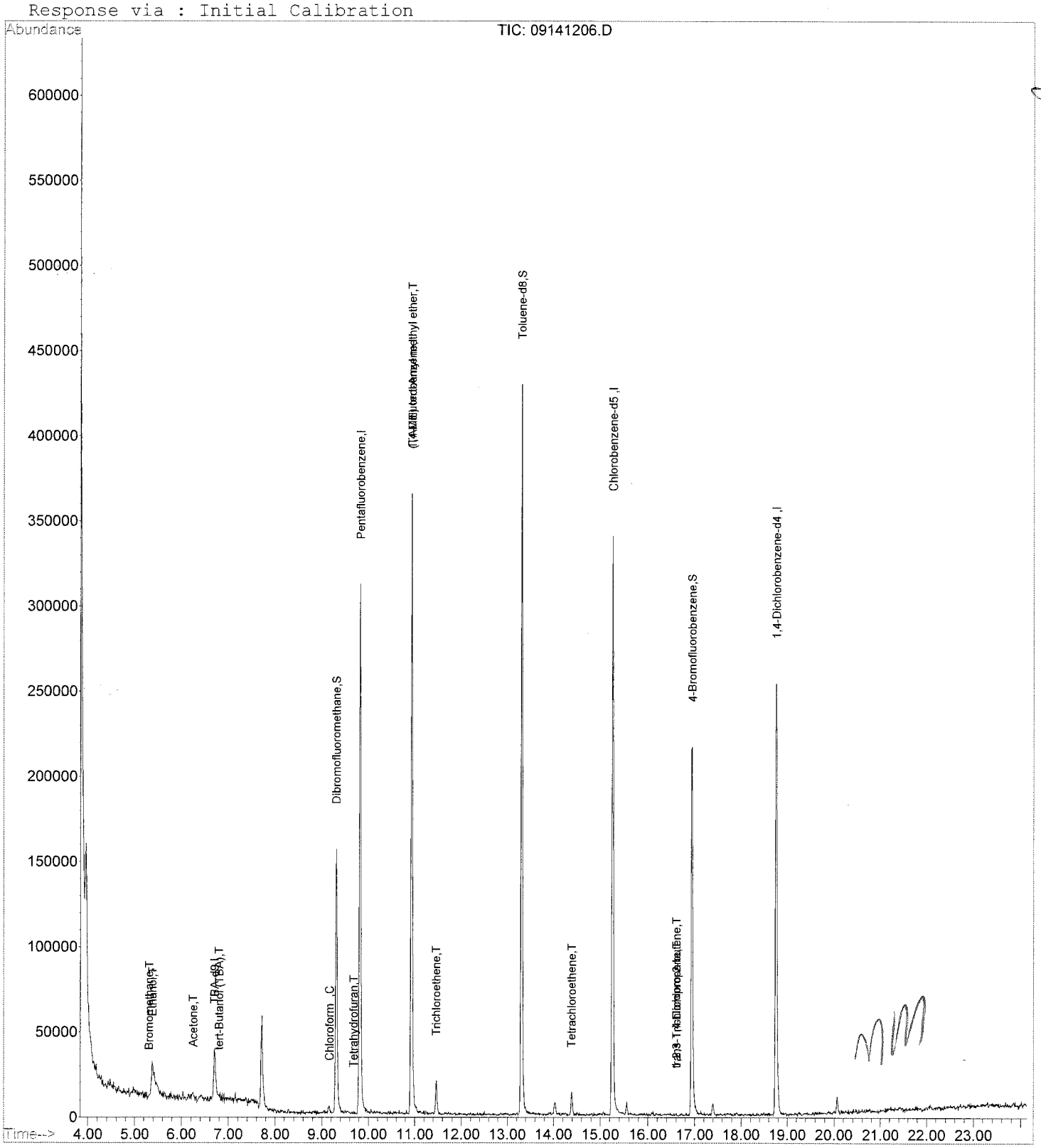
MM 9/17/12

(#) = qualifier out of range (m) = manual integration
09141206.D 081012.M Fri Sep 14 14:35:15 2012

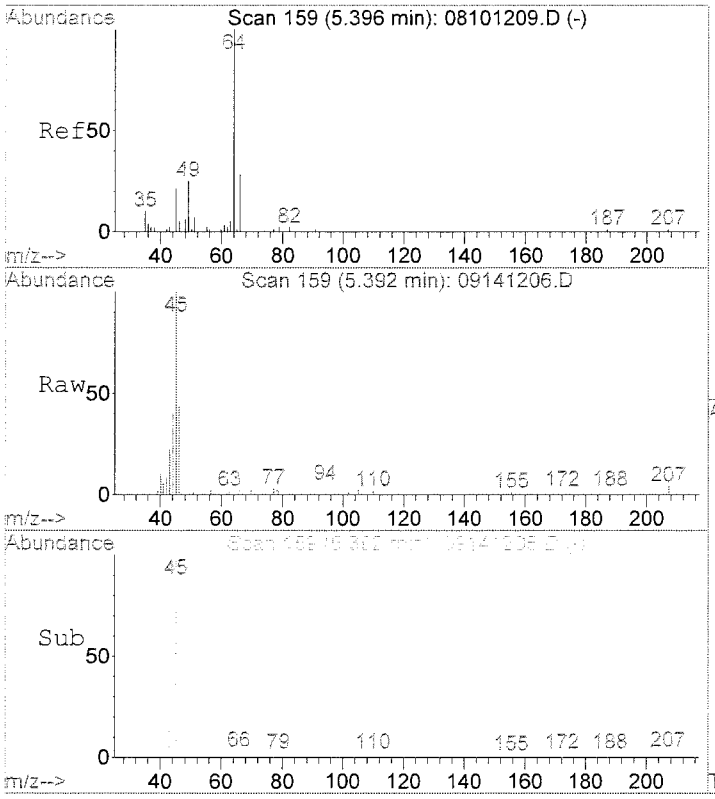
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141206.D Vial: 6
Acq On : 14 Sep 2012 9:01 am Operator: MNM
Sample : PVI0635-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



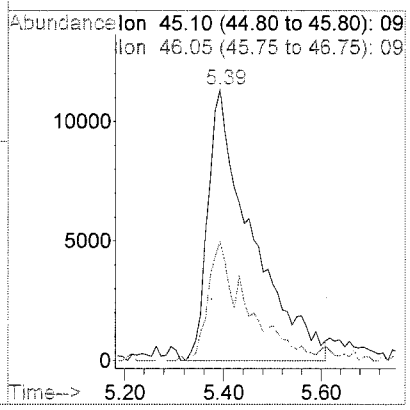
09141206.D 081012.M Fri Sep 14 14:35:16 2012

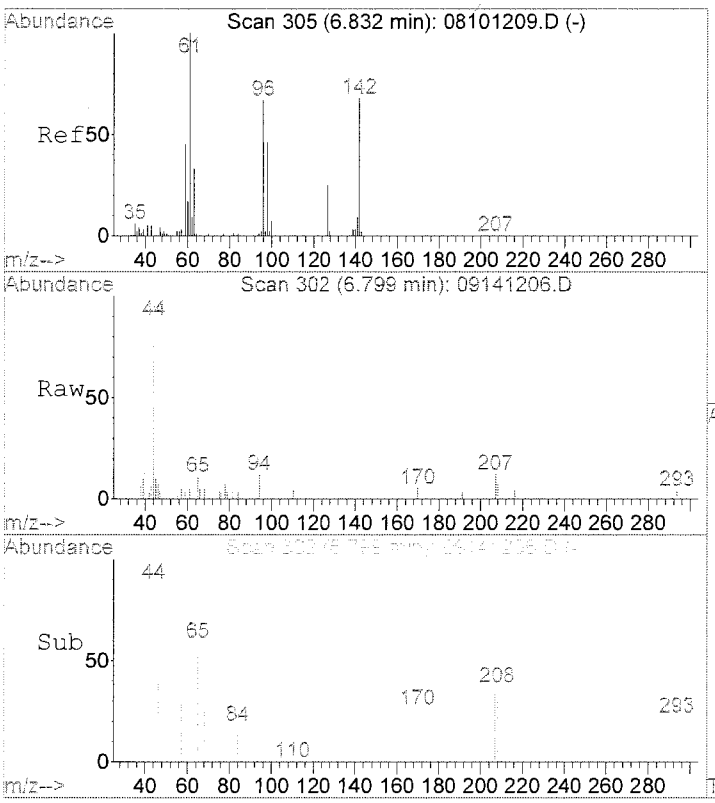


#2
Ethanol
Concen: 2561.01 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 45 Resp: 70146

Ion	Ratio	Lower	Upper
45	100		
46	21.7	39.9	79.9#

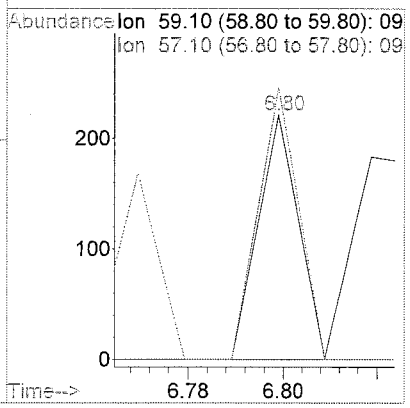


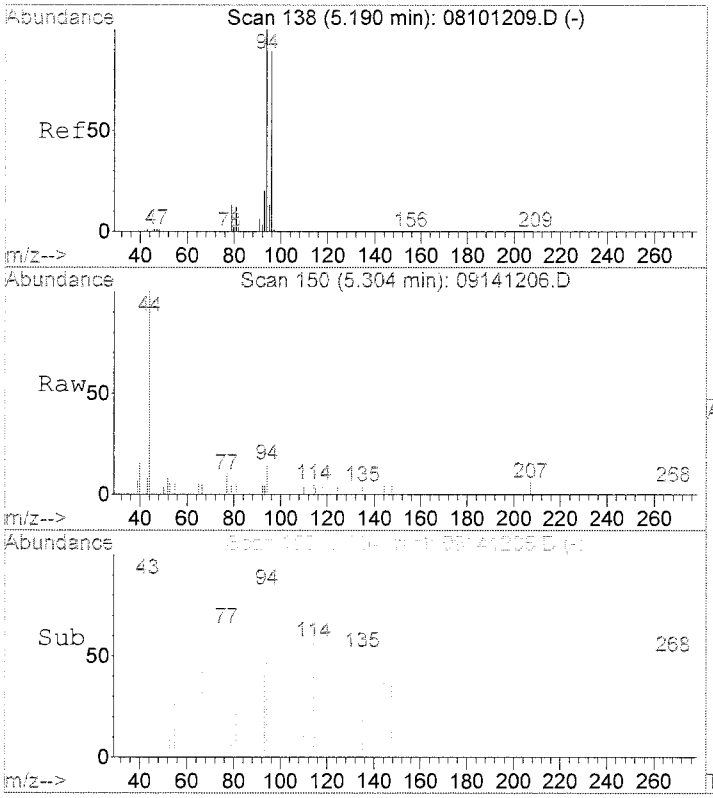


#3
tert-Butanol (TBA)
Concen: 0.44 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 59 Resp: 130

Ion	Ratio	Lower	Upper
59	100		
57	111.5	6.4	9.6#

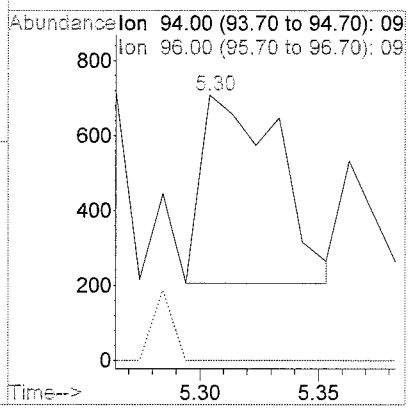


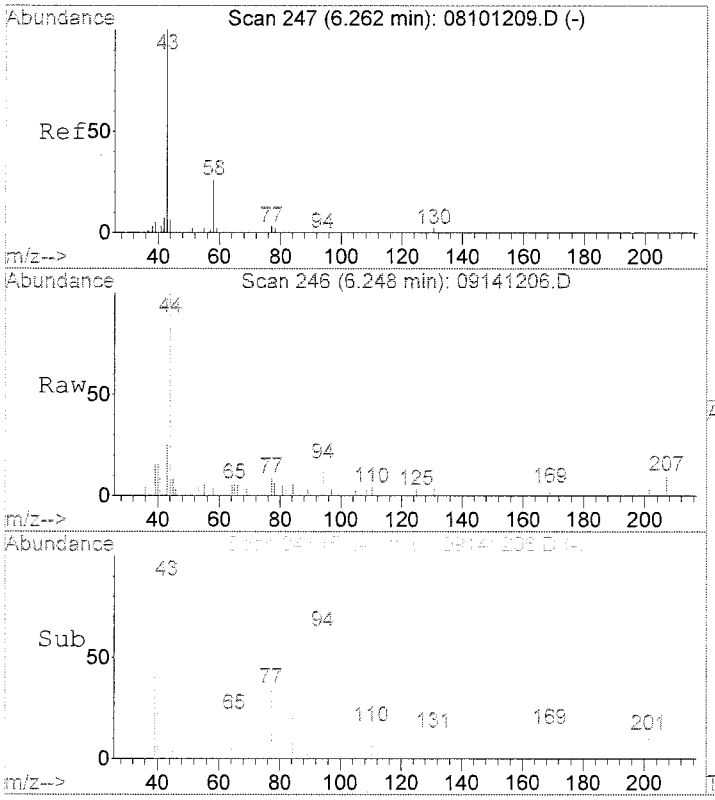


#9
Bromomethane
Concen: 0.21 ug/L
RT: 5.30 min Scan# 150
Delta R.T. 0.11 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 94 Resp: 1140

Ion	Ratio	Lower	Upper
94	100		
96	13.4	75.8	113.6#

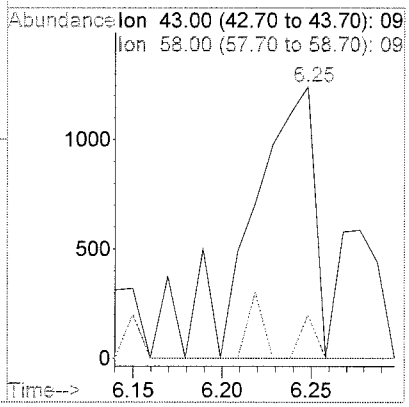


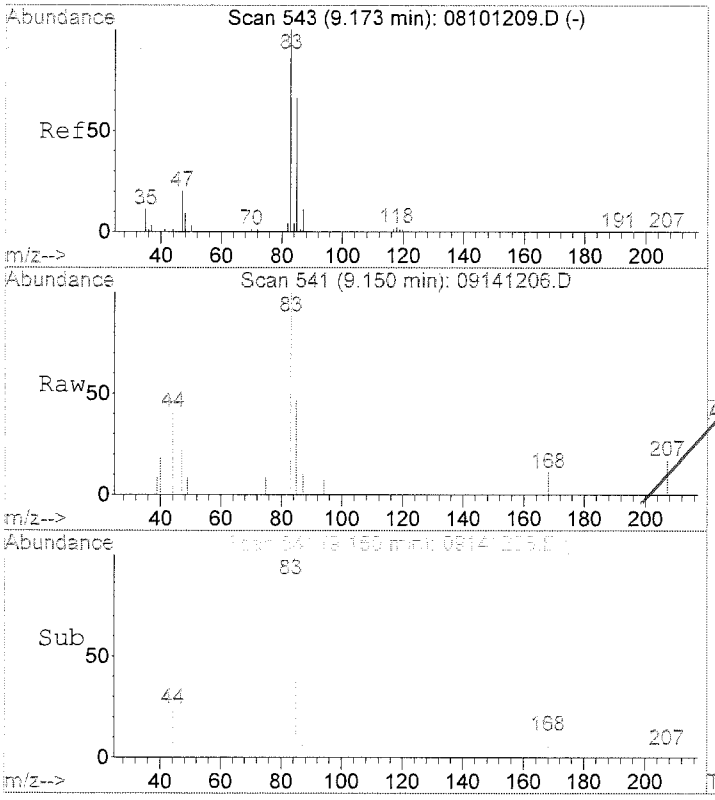


#12
Acetone
Concen: 2.63 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 43 Resp: 2974

Ion	Ratio	Lower	Upper
43	100		
58	3.9	25.9	38.9#

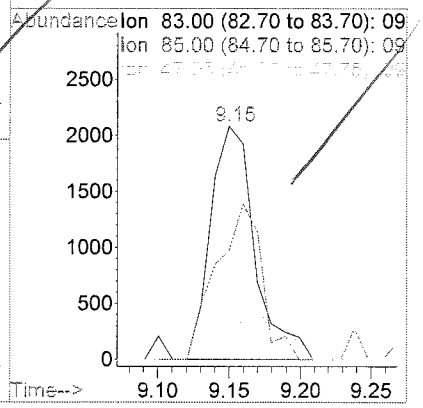


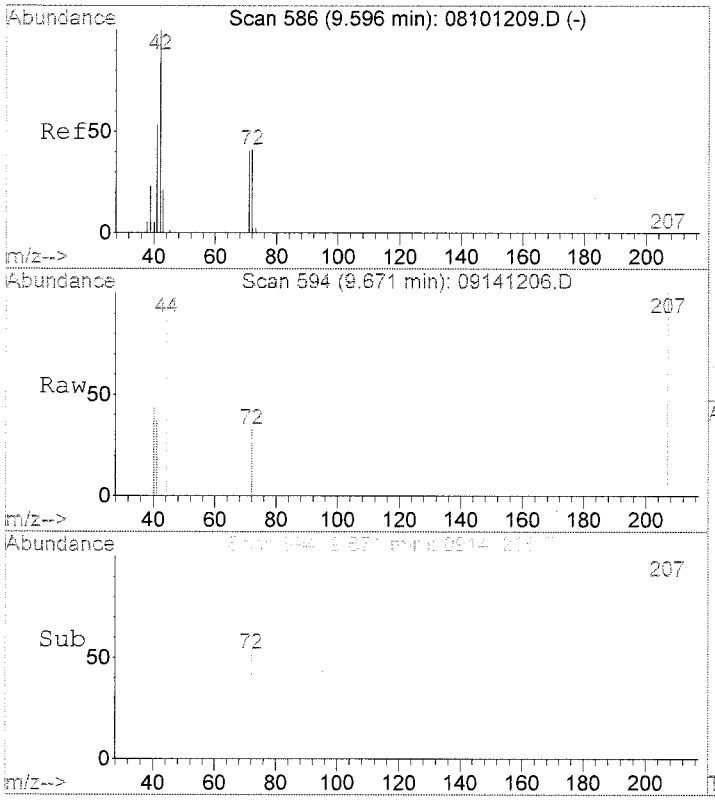


#27
Chloroform
Concen: 0.53 ug/L
RT: 9.15 min Scan# 541
Delta R.T. -0.02 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 83 Resp: 4475

Ion	Ratio	Lower	Upper
83	100		
85	68.7	51.6	77.4
47	27.4	18.9	28.3

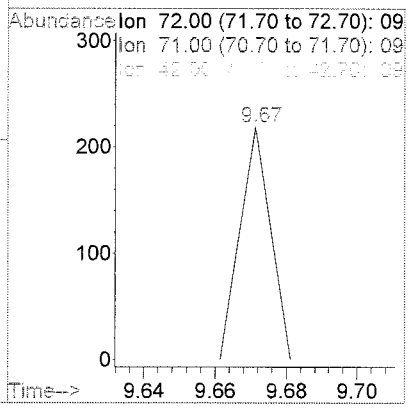


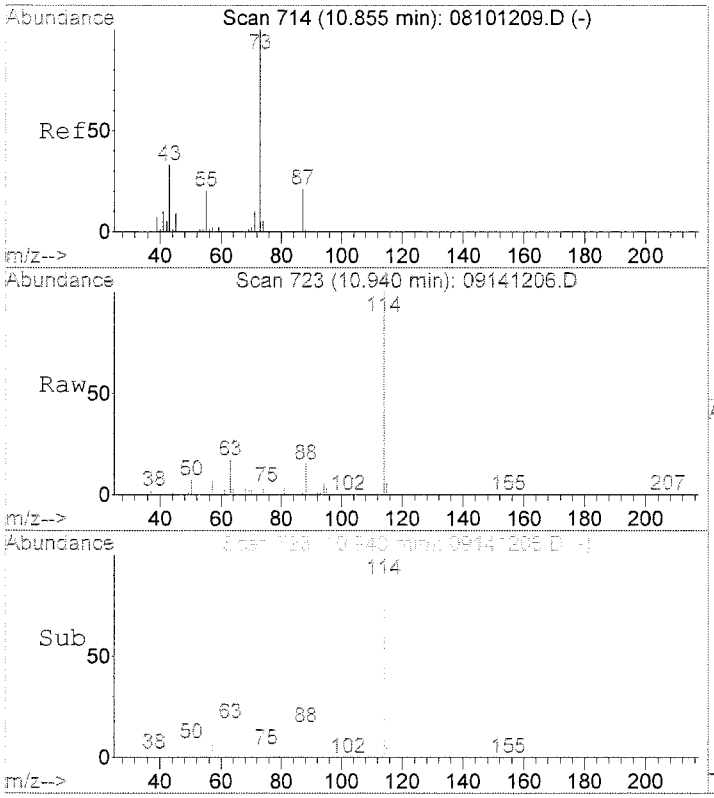


#31
Tetrahydrofuran
Concen: 0.37 ug/L
RT: 9.67 min Scan# 594
Delta R.T. 0.07 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 72 Resp: 129

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	246.5	217.1	325.7

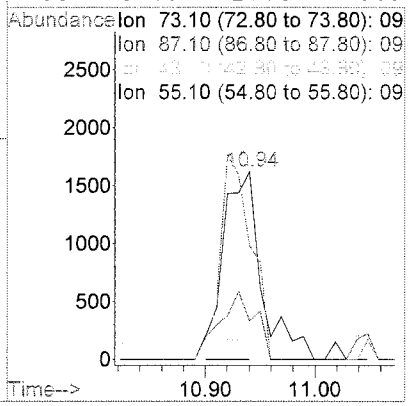


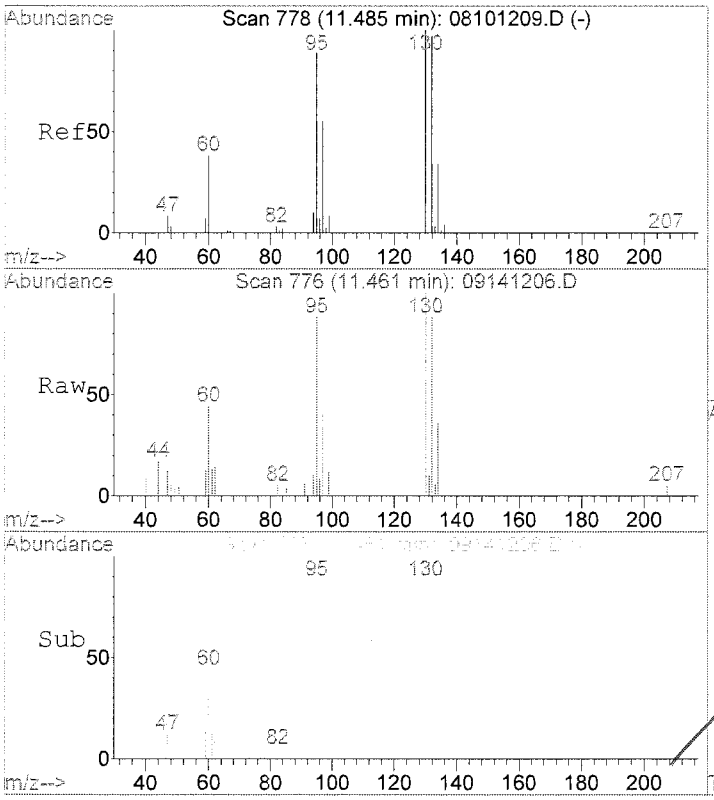


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 73 Resp: 3953

Ion	Ratio	Lower	Upper
73	100		
87	85.7	16.4	24.6#
43	13.3	27.0	40.4#
55	32.9	17.3	25.9#

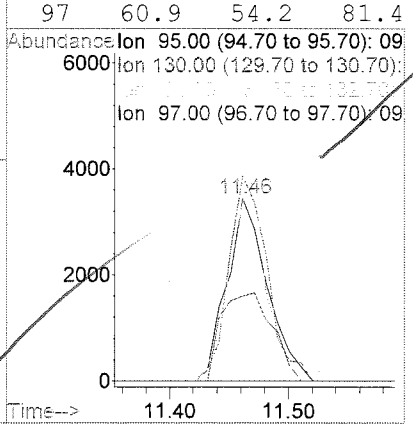


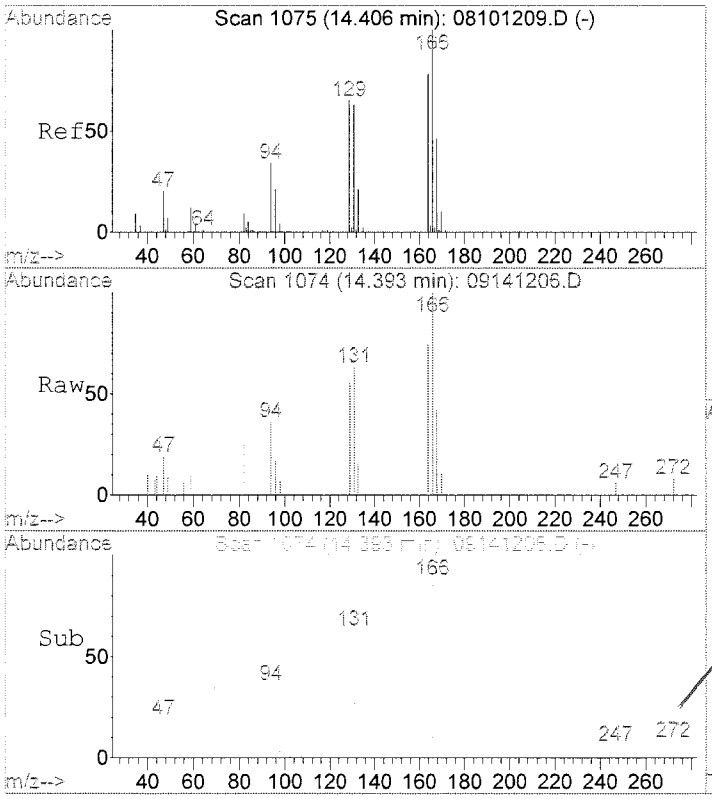


#41
Trichloroethene
Concen: 1.46 ug/L
RT: 11.46 min Scan# 776
Delta R.T. -0.02 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 95 Resp: 8095

Ion	Ratio	Lower	Upper
95	100		
130	106.5	87.3	130.9
132	105.1	84.2	126.4
97	60.9	54.2	81.4

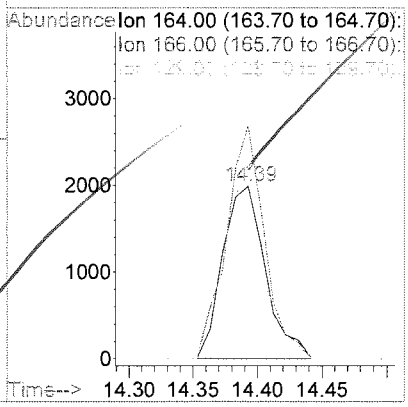


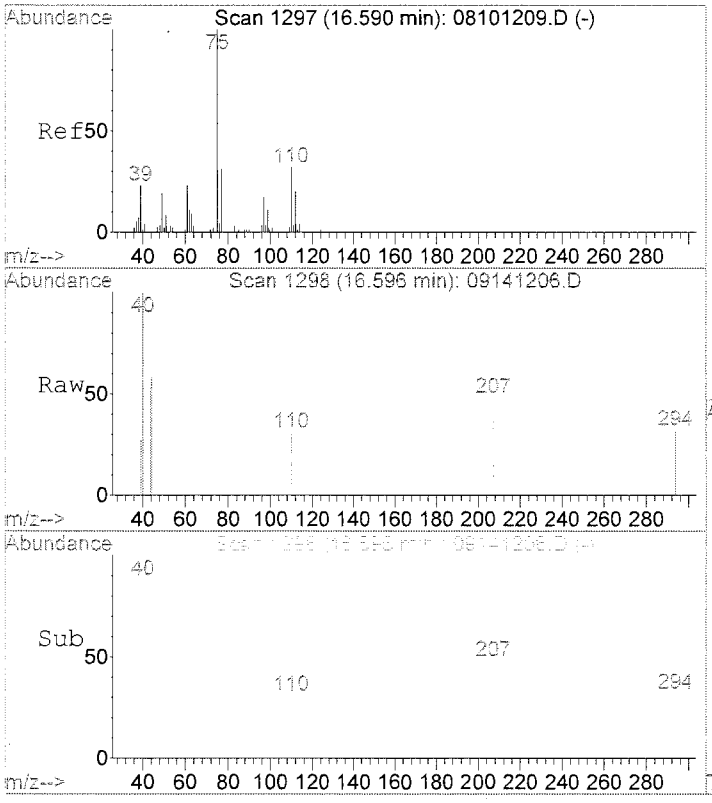


#55
Tetrachloroethene
Concen: 0.95 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:164 Resp: 4571

Ion	Ratio	Lower	Upper
164	100		
166	120.7	102.1	153.1
129	90.7	66.5	99.7

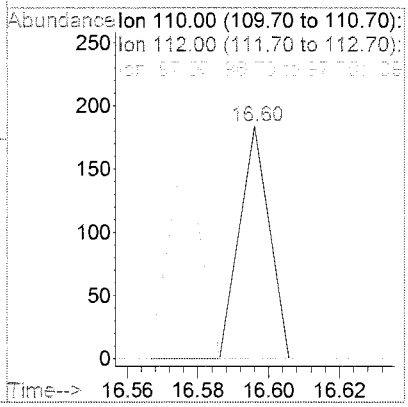




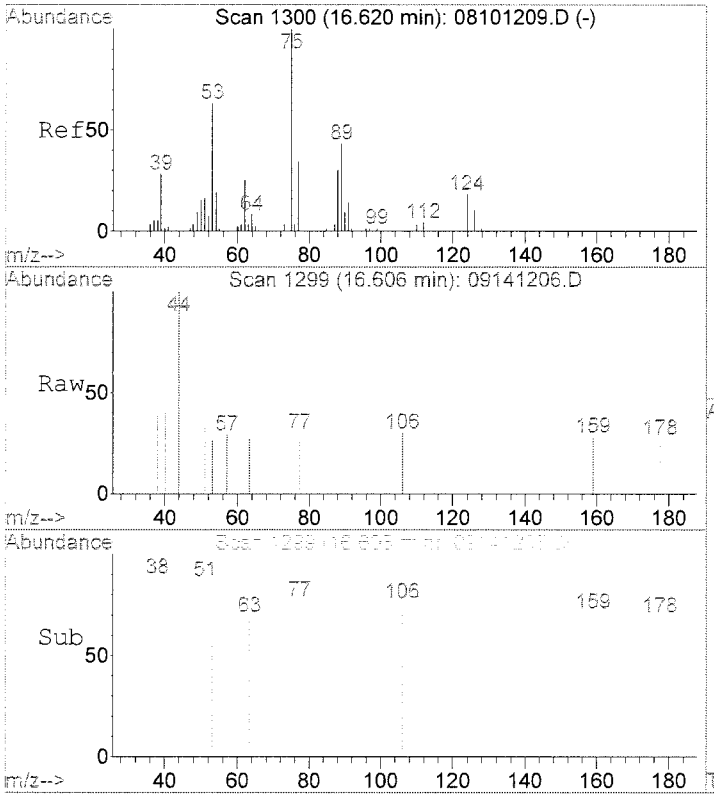
#66
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 16.60 min Scan# 1298
Delta R.T. 0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:110 Resp: 109

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	94.5	42.2	63.2#



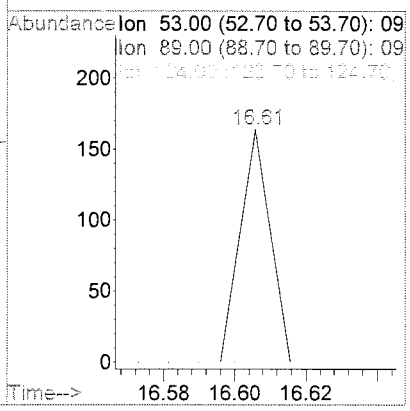
mm.

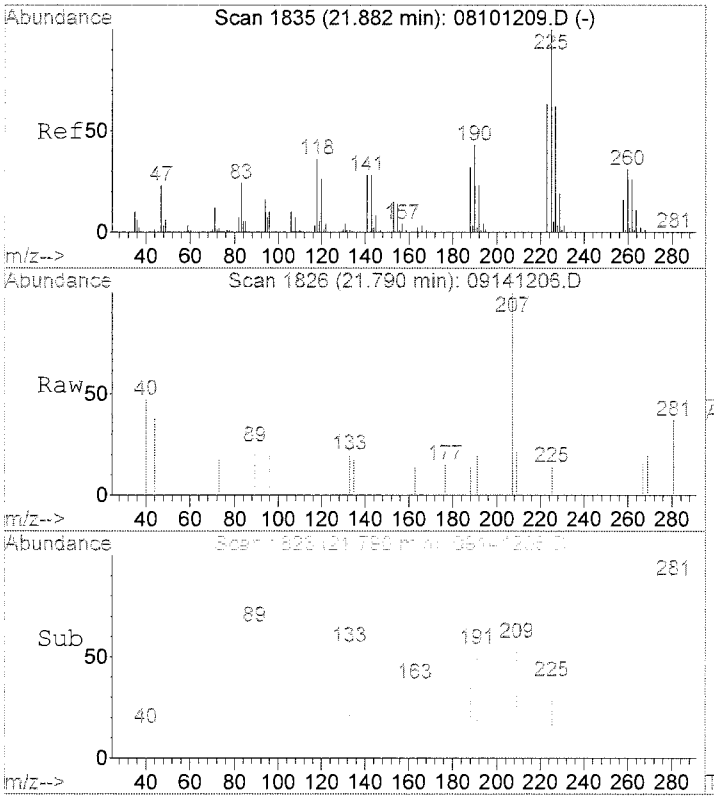


#67
trans-1,4-Dichloro-2-butene
Concen: 1.15 ug/L
RT: 16.61 min Scan# 1299
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 53 Resp: 97

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

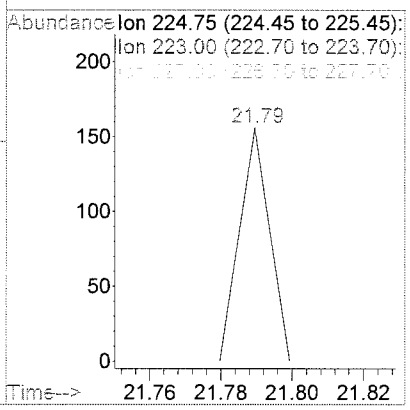




#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.79 min Scan# 1826
Delta R.T. -0.09 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:225 Resp: 92

Ion	Ratio	Lower	Upper
225	100		
223	100.0	47.8	71.8#
227	0.0	50.6	75.8#



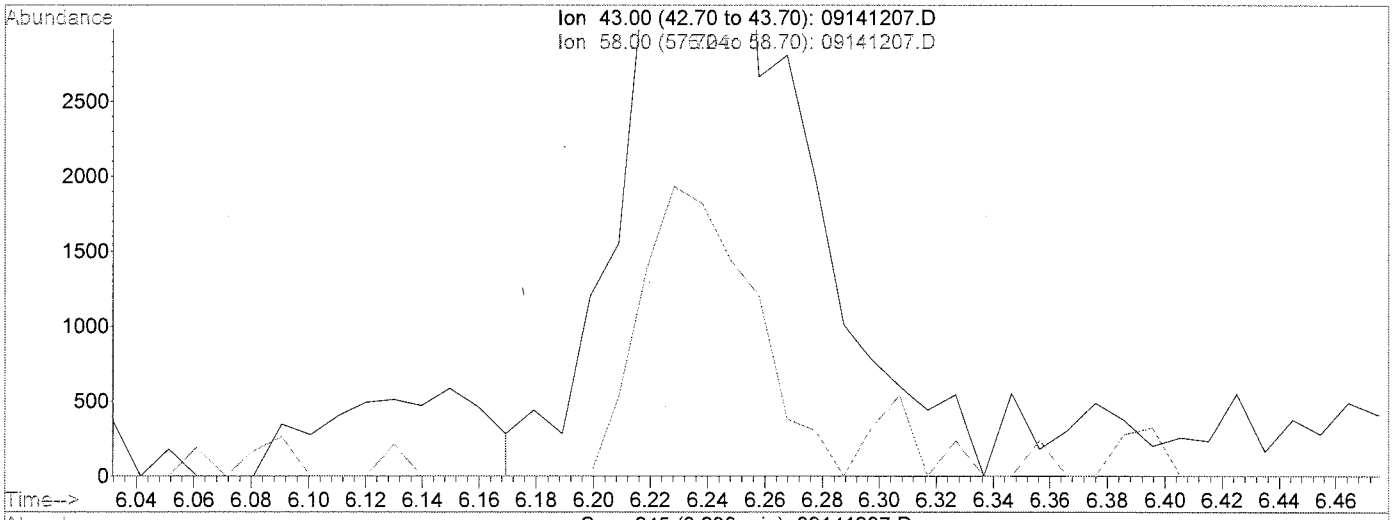
9

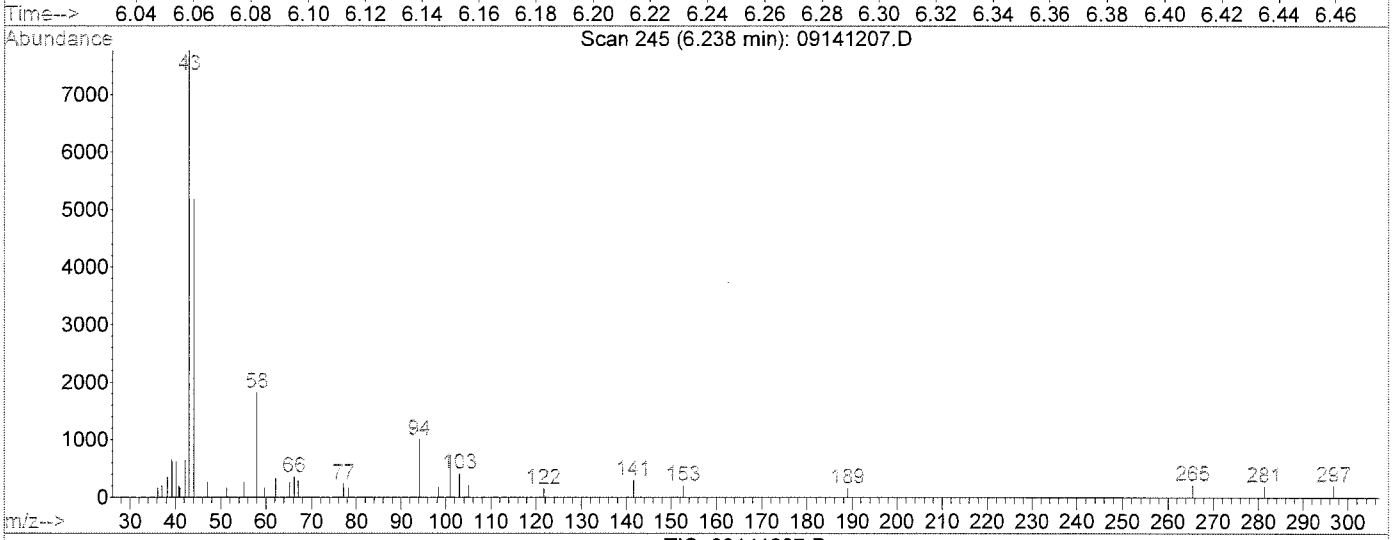
MM.

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141207.D

(12) Acetone (T)

6.24min 19.51ug/L

response 22790

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	23.27#
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

B

BL

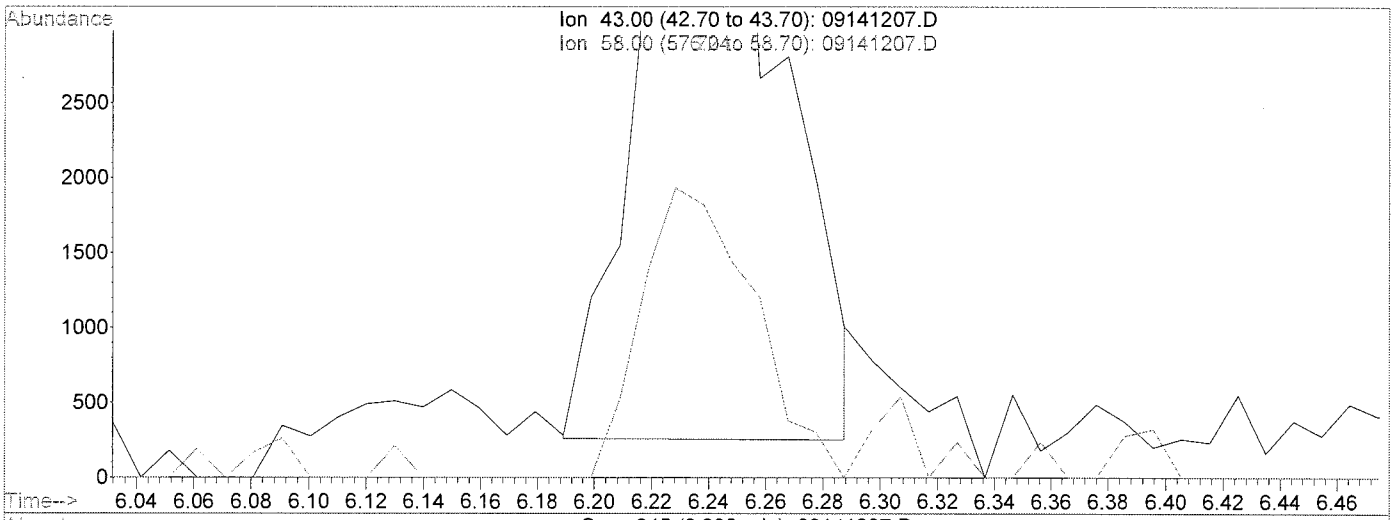
MM

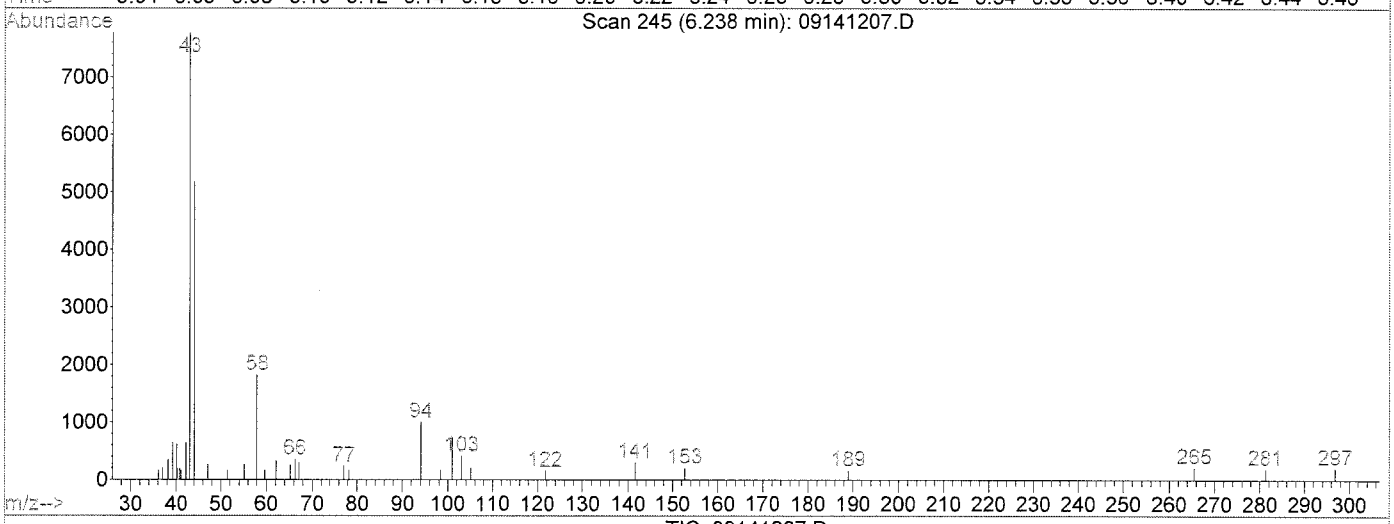
9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141207.D

(12) Acetone (T)

6.24min 16.66ug/L m

response 19461

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.25
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	56594	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	277447	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	401106	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	286216	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.75	152	120178	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	131612	27.12 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 108.48%	
48) Toluene-d8	13.30	98	372356	23.51 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 94.04%	
62) 4-Bromofluorobenzene	16.94	95	114444	25.88 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.52%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	73928	2422.95 ug/L #	66
3) tert-Butanol (TBA)	6.80	59	46835	141.47 ug/L	100
5) Dichlorodifluoromethane	4.09	85	308466	30.30 ug/L	98
6) Chloromethane	4.34	50	278500	28.11 ug/L	97
7) Vinyl Chloride	4.63	62	244510	26.97 ug/L	100
8) 1,3-Butadiene	4.77	54	192814	39.32 ug/L	97
9) Bromomethane	5.17	94	155505	28.08 ug/L	98
10) Chloroethane	5.36	64	114865	25.54 ug/L	97
11) Trichlorofluoromethane	6.09	101	280795	35.04 ug/L	100
12) Acetone	6.24	43	19461m	16.66 ug/L	
13) Iodomethane	6.84	142	289890	30.95 ug/L	92
14) 1,1-Dichloroethene	6.79	96	150756	27.03 ug/L	96
15) Methylene Chloride	6.98	84	114506	23.06 ug/L	94
16) Freon 113	7.05	101	179074	30.99 ug/L	98
17) Carbon disulfide	7.28	76	496483	27.37 ug/L	99
18) trans-1,2-Dichloroethene	7.84	96	146439	22.64 ug/L	97
19) MTBE	7.98	73	225337	24.64 ug/L	98
20) 1,1-Dichloroethane	8.16	63	230672	22.96 ug/L	98
21) Vinyl Acetate	8.31	43	175315	24.62 ug/L	100
22) n-Hexane	8.67	86	34921	21.99 ug/L	84
23) 2-Butanone (MEK)	8.71	72	8590	21.50 ug/L #	52
24) Diisopropyl Ether (DIPE)	8.72	45	381108	22.47 ug/L	98
25) cis-1,2-Dichloroethene	8.88	96	138719	23.56 ug/L	99
26) Bromochloromethane	9.10	128	55598	23.79 ug/L	93
27) Chloroform	9.15	83	211318	24.05 ug/L	98
28) 2,2-Dichloropropane	9.26	77	189271	28.45 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	289298	23.63 ug/L	98
31) Tetrahydrofuran	9.57	72	5563	15.31 ug/L	94
32) 1,2-Dichloroethane	10.00	62	113965	26.88 ug/L	96
33) 1,1,1-Trichloroethane	10.11	97	209442	28.46 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	231971	23.51 ug/L	98
36) 1,1-Dichloropropene	10.35	75	169064	19.71 ug/L	99
37) Carbon Tetrachloride	10.59	117	190536	28.33 ug/L	99
38) Benzene	10.64	78	451212	22.05 ug/L	97
39) Dibromomethane	11.36	93	57226	23.68 ug/L	93
40) 1,2-Dichloropropane	11.41	63	99522	20.41 ug/L #	90

(#) = qualifier out of range (m) = manual integration

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.46	95	139108	24.24 ug/L	98
42) Bromodichloromethane	11.53	83	135466	24.14 ug/L	98
43) 2-Chlorovinylethylether	12.06	63	426	0.23 ug/L #	53
44) cis-1,3-Dichloropropene	12.37	75	150789	23.04 ug/L	94
45) 4-Methyl-2-Pentanone (MIBK	12.50	43	59485	20.24 ug/L	98
46) trans-1,3-Dichloropropene	12.94	75	119268	23.96 ug/L	94
47) 1,1,2-Trichloroethane	13.15	97	67573	23.81 ug/L	94
49) Toluene	13.40	92	268261	23.05 ug/L	99
51) 1,3-Dichloropropane	13.47	76	111601	21.96 ug/L	96
52) 2-Hexanone	13.66	43	36846	17.34 ug/L	98
53) Dibromochloromethane	13.83	129	91738	24.90 ug/L	99
54) 1,2-Dibromoethane	14.17	107	71260	23.07 ug/L	98
55) Tetrachloroethene	14.39	164	113878	22.58 ug/L	96
56) 1,1,1,2-Tetrachloroethane	15.20	131	104796	25.94 ug/L	98
57) Chlorobenzene	15.30	112	287347	24.46 ug/L	99
58) Ethylbenzene	15.56	91	496667	24.20 ug/L	99
59) m,p-Xylenes	15.83	106	192686	24.61 ug/L	97
60) Styrene	16.28	104	257351	24.54 ug/L	98
61) o-Xylene	16.38	106	173285	23.94 ug/L	99
64) Bromoform	15.99	173	54646	26.42 ug/L	93
65) 1,1,2,2-Tetrachloroethane	16.37	83	70497	21.84 ug/L	96
66) 1,2,3-Trichloropropane	16.58	110	18229	23.43 ug/L	93
67) trans-1,4-Dichloro-2-buten	16.60	53	13698	17.61 ug/L #	82
68) Isopropylbenzene	16.88	105	486079	27.08 ug/L	99
69) Bromobenzene	17.23	156	106120	24.26 ug/L	97
70) n-Propylbenzene	17.49	91	555497	24.38 ug/L	98
71) 2-Chlorotoluene	17.63	91	307751	24.98 ug/L	98
72) 4-Chlorotoluene	17.74	91	300180	24.91 ug/L	98
73) 1,3,5-Trimethylbenzene	17.89	105	363346	25.96 ug/L	97
74) tert-Butylbenzene	18.29	119	329291	26.34 ug/L	96
75) 1,2,4-Trimethylbenzene	18.45	105	334789	25.28 ug/L	100
76) sec-Butylbenzene	18.59	105	507793	25.10 ug/L	99
77) 1,3-Dichlorobenzene	18.70	146	186458	23.43 ug/L	98
78) 1,4-Dichlorobenzene	18.79	146	179538	23.01 ug/L	96
79) p-Isopropyltoluene	18.84	119	381509	25.17 ug/L	98
80) 1,2-Dichlorobenzene	19.26	146	155287	23.96 ug/L	97
81) n-Butylbenzene	19.37	91	337762	23.24 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.84	75	8827	27.14 ug/L	89
83) 1,2,4-Trichlorobenzene	21.49	180	88592	25.50 ug/L	97
84) Napthalene	21.81	128	139742	25.14 ug/L	100
85) Hexachlorobutadiene	21.87	225	77763	33.09 ug/L	98
86) 1,2,3-Trichlorobenzene	22.06	180	71218	25.28 ug/L	98

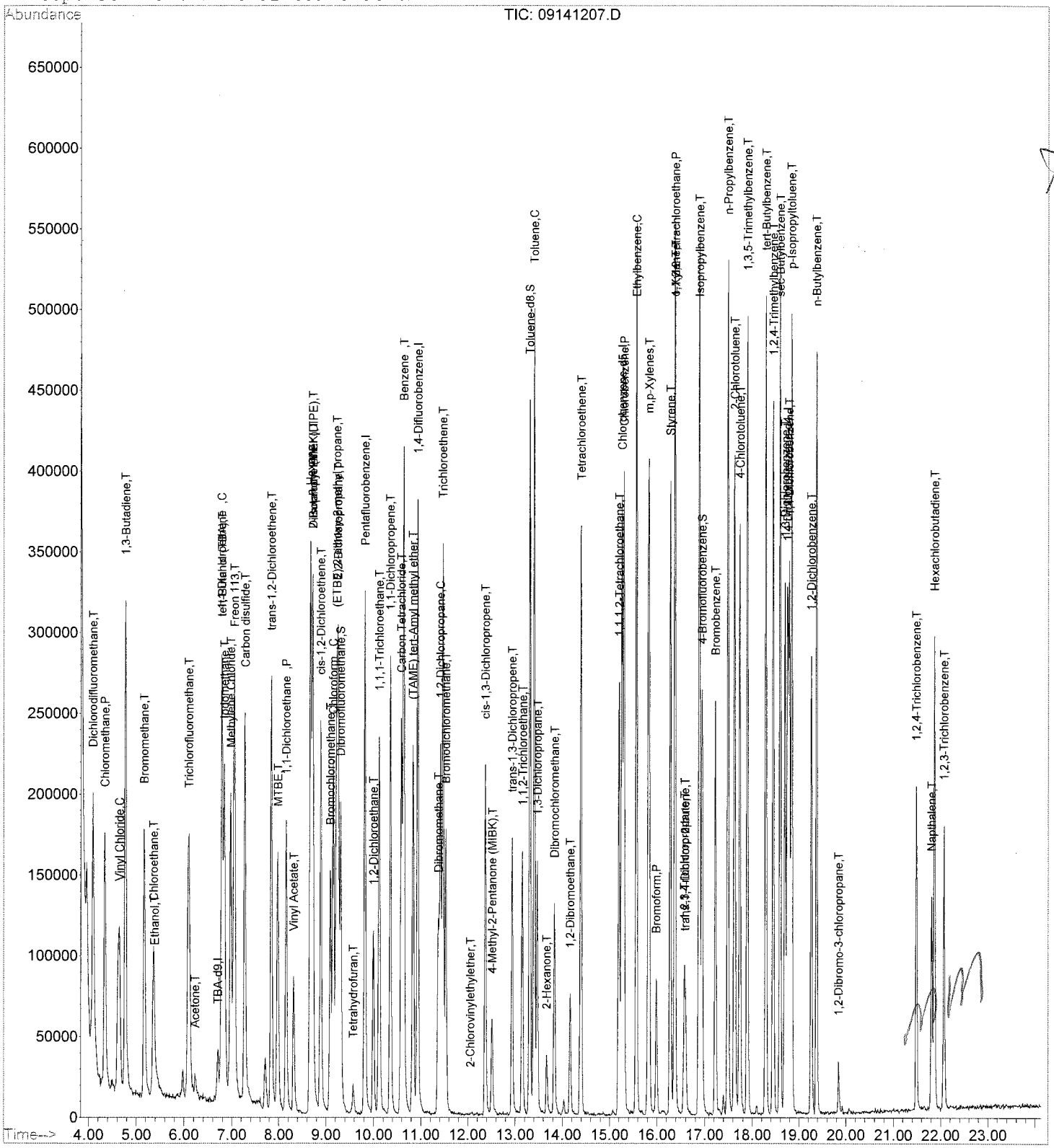
MM

(#) = qualifier out of range (m) = manual integration
09141207.D 081012.M Fri Sep 14 14:35:47 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

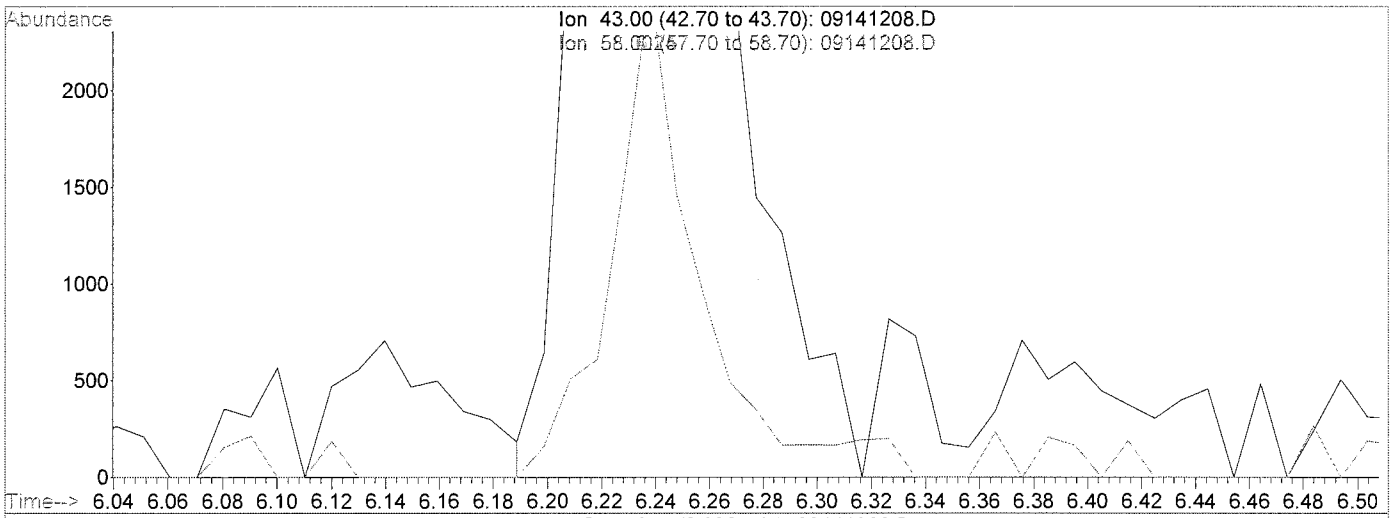
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

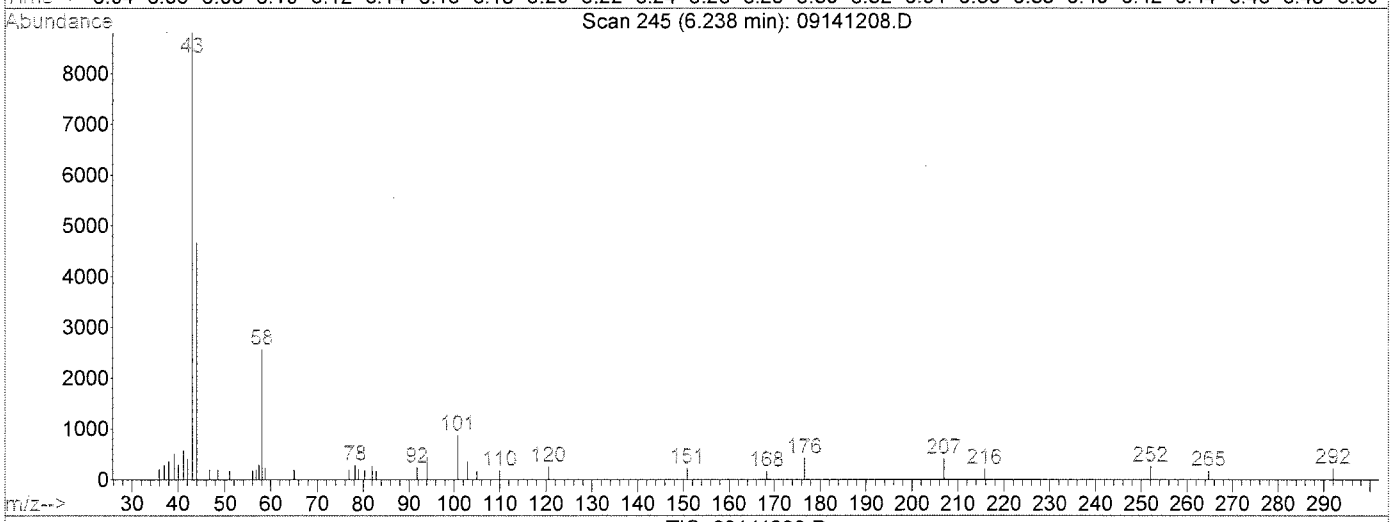


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141208.D

(12) Acetone (T)

6.24min 18.99ug/L

response 23668

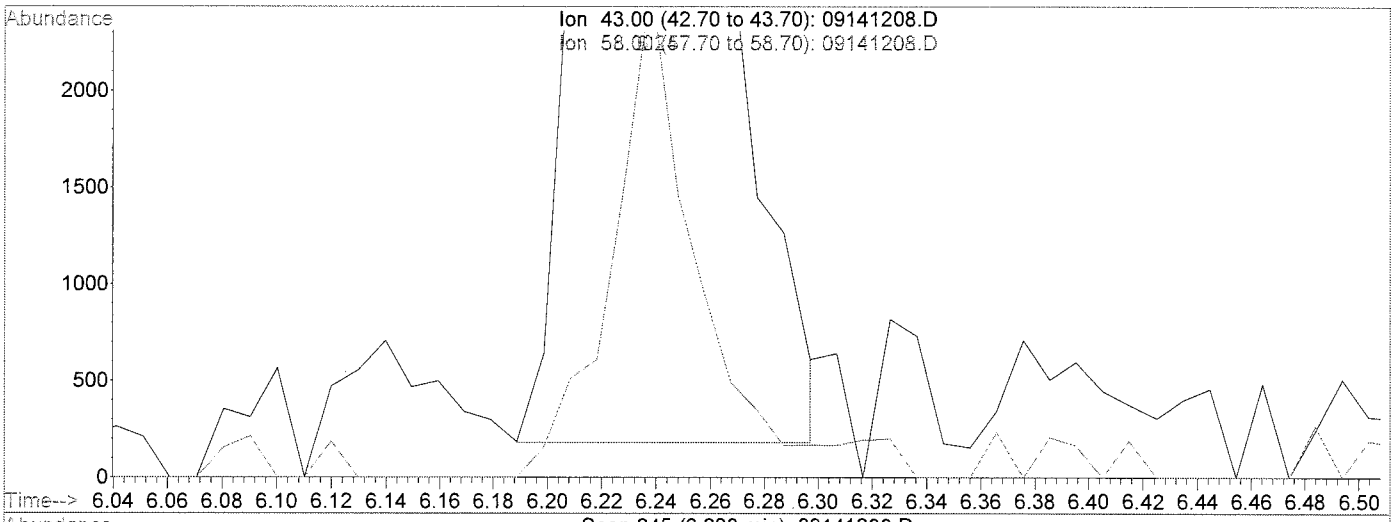
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	22.71#
0.00	0.00	0.00
0.00	0.00	0.00

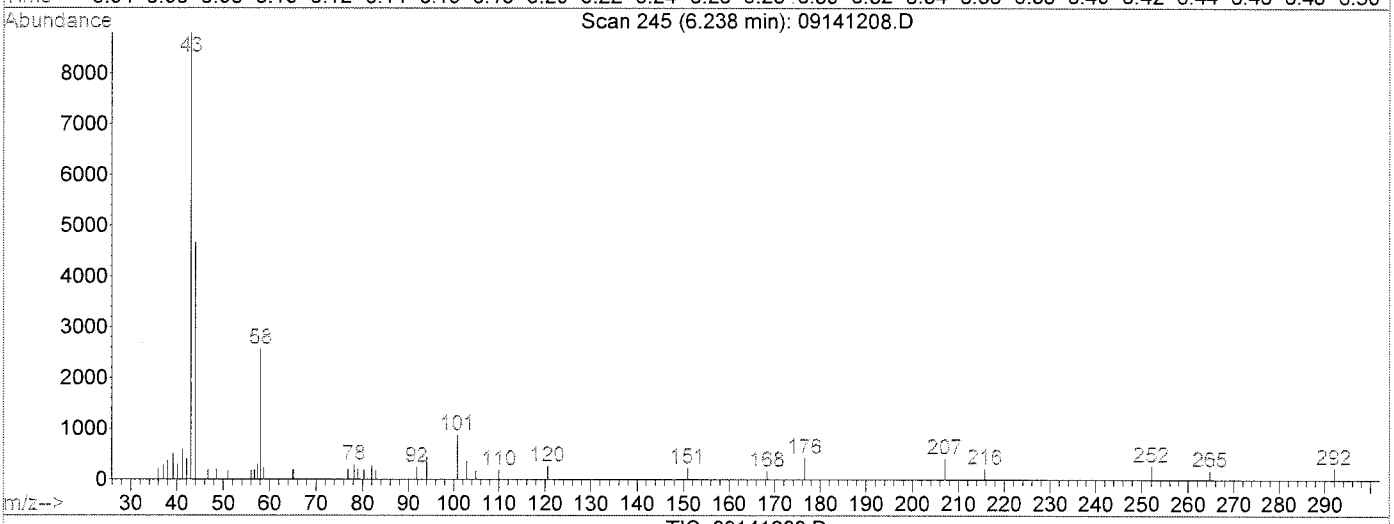
BL 9/17/12
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141208.D

(12) Acetone (T)

6.24min 17.75ug/L m

response 22119

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.30#
0.00	0.00	0.00
0.00	0.00	0.00

✓ 9/12/12

MM 9/12/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.70	65	63800	200.00	ug/L	-0.02
4) Pentafluorobenzene	9.82	168	296037	25.00	ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	407780	25.00	ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	308028	25.00	ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	128229	25.00	ug/L	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	9.31	113	136049	26.28	ug/L	-0.02
Spiked Amount 25.000			Recovery	=	105.12%	
48) Toluene-d8	13.31	98	399428	24.80	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	16.94	95	126114	26.49	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	105.96%	

Target Compounds						Qvalue
2) Ethanol	5.39	45	63235	1838.41	ug/L #	68
3) tert-Butanol (TBA)	6.81	59	53623	143.68	ug/L	99
5) Dichlorodifluoromethane	4.09	85	309315	28.48	ug/L	99
6) Chloromethane	4.34	50	276129	26.12	ug/L	96
7) Vinyl Chloride	4.63	62	245936	25.42	ug/L	100
8) 1,3-Butadiene	4.77	54	192637	36.82	ug/L	95
9) Bromomethane	5.17	94	164139	27.78	ug/L	99
10) Chloroethane	5.36	64	121460	25.31	ug/L	97
11) Trichlorofluoromethane	6.09	101	289436	33.85	ug/L	98
12) Acetone	6.24	43	22119m	17.75	ug/L	
13) Iodomethane	6.84	142	299869	30.00	ug/L	90
14) 1,1-Dichloroethene	6.78	96	158321	26.60	ug/L	99
15) Methylene Chloride	6.98	84	130010	24.53	ug/L	95
16) Freon 113	7.05	101	175103	28.40	ug/L	97
17) Carbon disulfide	7.27	76	517850	26.75	ug/L	97
18) trans-1,2-Dichloroethene	7.84	96	155531	22.53	ug/L	98
19) MTBE	7.98	73	231767	23.75	ug/L	97
20) 1,1-Dichloroethane	8.16	63	234975	21.92	ug/L	99
21) Vinyl Acetate	8.31	43	167853	22.09	ug/L	100
22) n-Hexane	8.67	86	37308	22.02	ug/L	80
23) 2-Butanone (MEK)	8.70	72	7541	17.69	ug/L #	2
24) Diisopropyl Ether (DIPE)	8.72	45	383033	21.17	ug/L	97
25) cis-1,2-Dichloroethene	8.88	96	141484	22.52	ug/L	97
26) Bromochloromethane	9.10	128	57184	22.93	ug/L	88
27) Chloroform	9.15	83	217269	23.17	ug/L	95
28) 2,2-Dichloropropane	9.26	77	188809	26.60	ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	299394	22.92	ug/L	98
31) Tetrahydrofuran	9.57	72	5825	15.02	ug/L	95
32) 1,2-Dichloroethane	10.00	62	115813	25.60	ug/L	96
33) 1,1,1-Trichloroethane	10.11	97	216722	27.60	ug/L	97
34) (TAME) tert-Amyl methyl et	10.83	73	229473	21.80	ug/L	95
36) 1,1-Dichloropropene	10.35	75	165481	18.98	ug/L	97
37) Carbon Tetrachloride	10.59	117	196669	28.77	ug/L	98
38) Benzene	10.63	78	461133	22.16	ug/L	96
39) Dibromomethane	11.37	93	55978	22.79	ug/L	97
40) 1,2-Dichloropropane	11.41	63	107355	21.65	ug/L	94

(#) = qualifier out of range (m) = manual integration

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.46	95	142981	24.51 ug/L	98
42) Bromodichloromethane	11.53	83	146207	25.62 ug/L	96
44) cis-1,3-Dichloropropene	12.37	75	155509	23.37 ug/L	93
45) 4-Methyl-2-Pentanone (MIBK	12.51	43	62819	21.03 ug/L	99
46) trans-1,3-Dichloropropene	12.94	75	125160	24.74 ug/L	96
47) 1,1,2-Trichloroethane	13.14	97	66968	23.21 ug/L	96
49) Toluene	13.40	92	278022	23.49 ug/L	99
51) 1,3-Dichloropropane	13.47	76	115671	21.15 ug/L	99
52) 2-Hexanone	13.66	43	36107	15.79 ug/L	95
53) Dibromochloromethane	13.83	129	101510	25.60 ug/L	92
54) 1,2-Dibromoethane	14.17	107	73201	22.02 ug/L	95
55) Tetrachloroethene	14.39	164	125829	23.19 ug/L	97
56) 1,1,1,2-Tetrachloroethane	15.20	131	106874	24.58 ug/L	96
57) Chlorobenzene	15.31	112	293560	23.22 ug/L	99
58) Ethylbenzene	15.56	91	521054	23.59 ug/L	99
59) m,p-Xylenes	15.83	106	202073	23.98 ug/L	96
60) Styrene	16.28	104	269285	23.86 ug/L	98
61) o-Xylene	16.38	106	182943	23.49 ug/L	96
64) Bromoform	16.00	173	55491	25.14 ug/L	94
65) 1,1,2,2-Tetrachloroethane	16.37	83	74118	21.52 ug/L	99
66) 1,2,3-Trichloropropane	16.58	110	20668	24.90 ug/L #	91
67) trans-1,4-Dichloro-2-buten	16.60	53	14811	17.83 ug/L	88
68) Isopropylbenzene	16.88	105	505960	26.42 ug/L	99
69) Bromobenzene	17.23	156	115948	24.85 ug/L	97
70) n-Propylbenzene	17.49	91	585890	24.10 ug/L	97
71) 2-Chlorotoluene	17.63	91	332547	25.30 ug/L	99
72) 4-Chlorotoluene	17.74	91	313925	24.42 ug/L	99
73) 1,3,5-Trimethylbenzene	17.89	105	390048	26.11 ug/L	98
74) tert-Butylbenzene	18.29	119	345228	25.88 ug/L	97
75) 1,2,4-Trimethylbenzene	18.44	105	364934	25.83 ug/L	97
76) sec-Butylbenzene	18.59	105	519571	24.07 ug/L	99
77) 1,3-Dichlorobenzene	18.70	146	202746	23.87 ug/L	95
78) 1,4-Dichlorobenzene	18.79	146	197349	23.70 ug/L	98
79) p-Isopropyltoluene	18.84	119	415232	25.67 ug/L	98
80) 1,2-Dichlorobenzene	19.26	146	168944	24.43 ug/L	98
81) n-Butylbenzene	19.37	91	360831	23.26 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.84	75	9115	26.24 ug/L	97
83) 1,2,4-Trichlorobenzene	21.49	180	99415	26.81 ug/L	99
84) Napthalene	21.81	128	145288	24.50 ug/L	99
85) Hexachlorobutadiene	21.87	225	85638	34.24 ug/L	96
86) 1,2,3-Trichlorobenzene	22.06	180	79795	26.62 ug/L	100

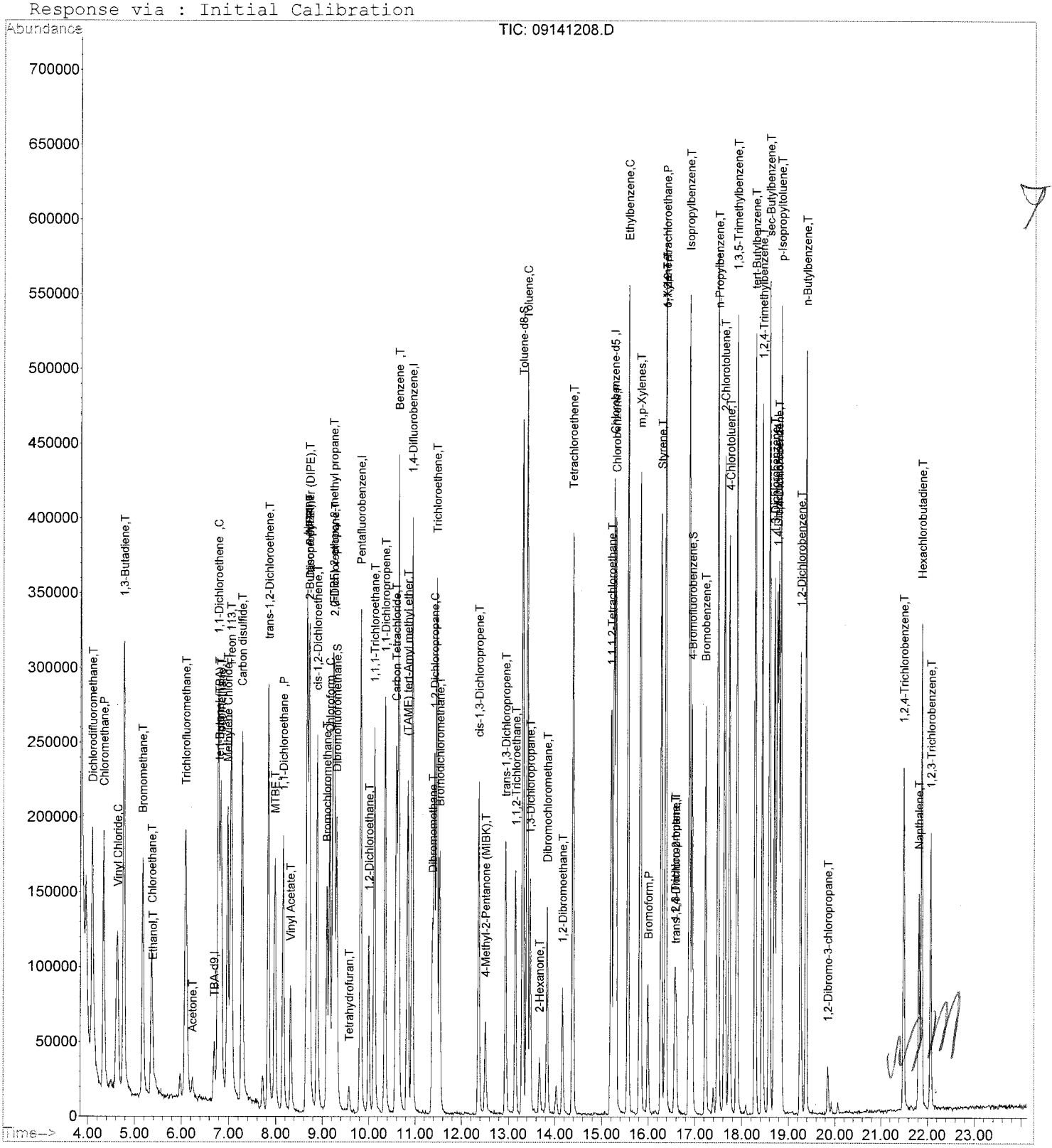
MNM

(#) = qualifier out of range (m) = manual integration
09141208.D 081012.M Fri Sep 14 14:36:14 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141209.D Vial: 9
Acq On : 14 Sep 2012 10:45 am Operator: MNM
Sample : PVI0635-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

✓ 9/17/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.71	65	61623	200.00	ug/L	-0.02
4) Pentafluorobenzene	9.83	168	297756	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	406999	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.27	117	297257	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	115495	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.32	113	137300	26.37	ug/L	0.00
Spiked Amount 25.000			Recovery =	105.48%		
48) Toluene-d8	13.33	98	387398	24.10	ug/L	0.00
Spiked Amount 25.000			Recovery =	96.40%		
62) 4-Bromofluorobenzene	16.96	95	111678	24.31	ug/L	0.00
Spiked Amount 25.000			Recovery =	97.24%		

Target Compounds						Qvalue
2) Ethanol	5.40	45	56043	1686.88	ug/L #	61
3) tert-Butanol (TBA)	6.81	59	378	1.05	ug/L #	1
8) 1,3-Butadiene	4.79	54	544	0.10	ug/L #	66
9) Bromomethane	5.17	94	1683	0.28	ug/L #	34
12) Acetone	6.23	43	1544	1.23	ug/L #	77
23) 2-Butanone (MEK)	8.61	72	95	0.22	ug/L #	1
27) Chloroform	9.19	83	3282	0.35	ug/L #	91
31) Tetrahydrofuran	9.63	72	117	0.30	ug/L #	24
41) Trichloroethene	11.48	95	678	0.12	ug/L #	46
55) Tetrachloroethene	14.41	164	533	0.10	ug/L #	33
66) 1,2,3-Trichloropropane	16.78	110	122	0.16	ug/L #	21
67) trans-1,4-Dichloro-2-buten	16.57	53	191	1.26	ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.90	75	90	0.46	ug/L #	1
83) 1,2,4-Trichlorobenzene	21.52	180	515	0.15	ug/L #	37
84) Napthalene	21.84	128	1105	0.21	ug/L	96
85) Hexachlorobutadiene	21.88	225	103	Below Cal	#	37

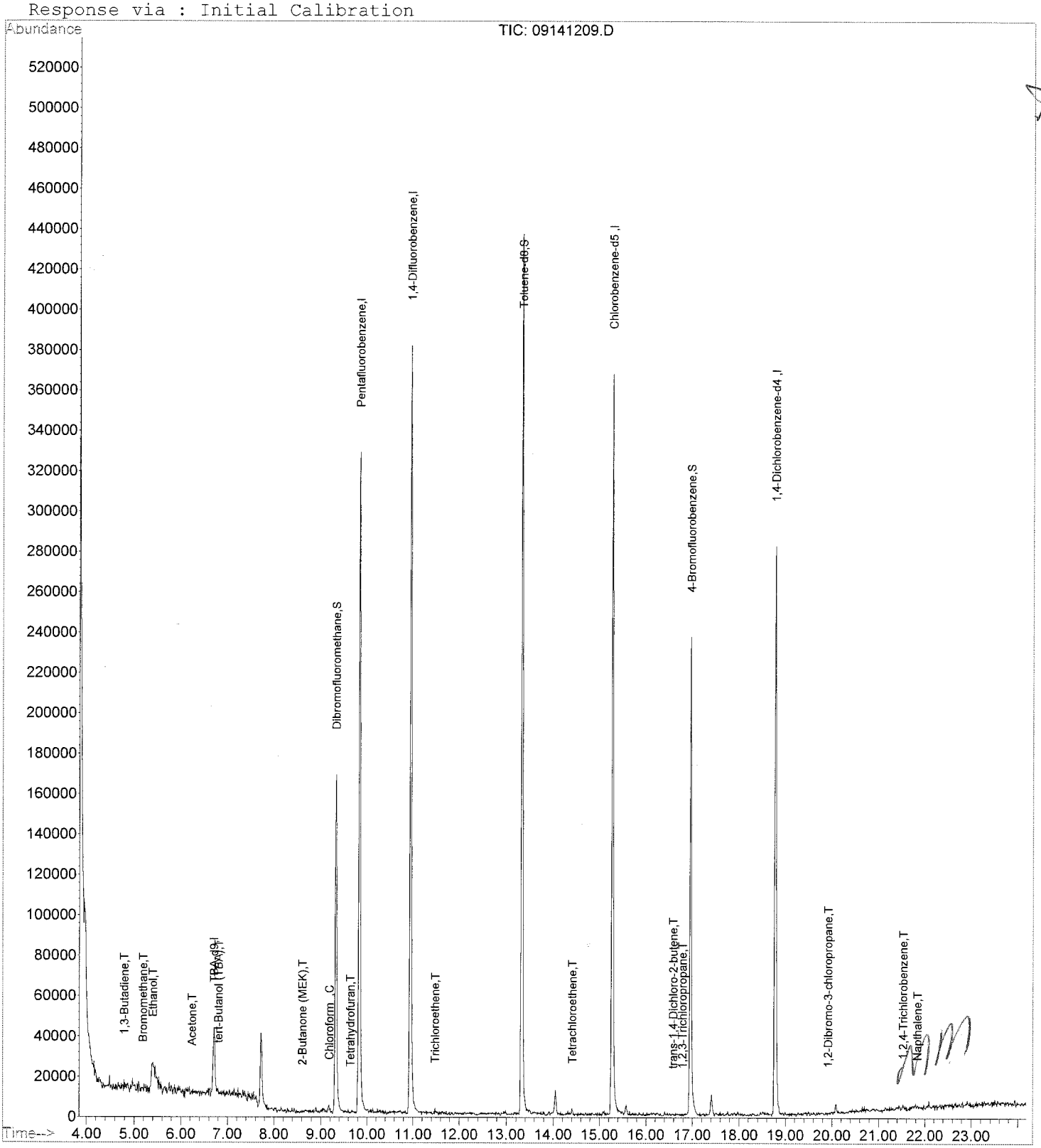
MM 9/17/12

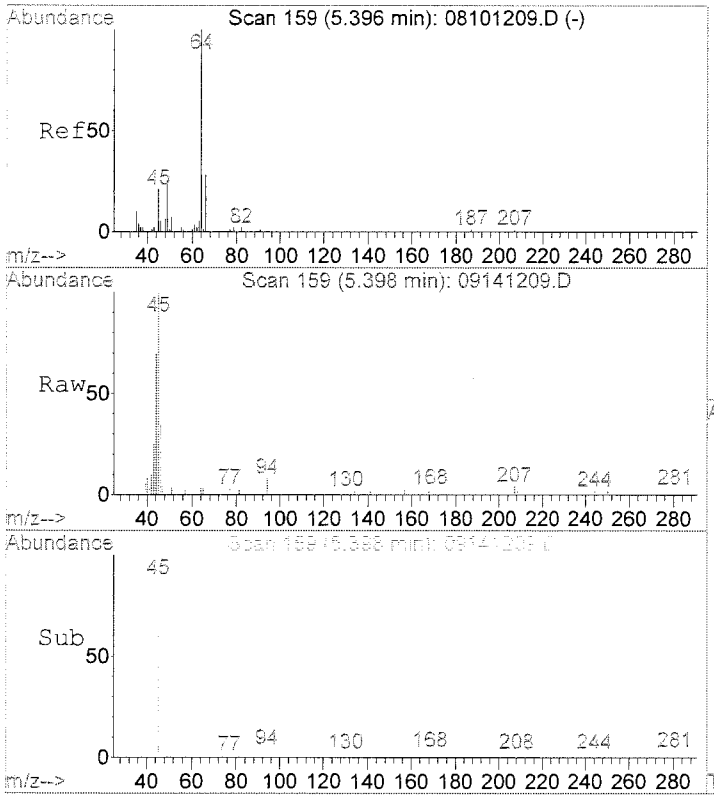
(#) = qualifier out of range (m) = manual integration
09141209.D 081012.M Fri Sep 14 14:36:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141209.D Vial: 9
Acq On : 14 Sep 2012 10:45 am Operator: MNM
Sample : PVI0635-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

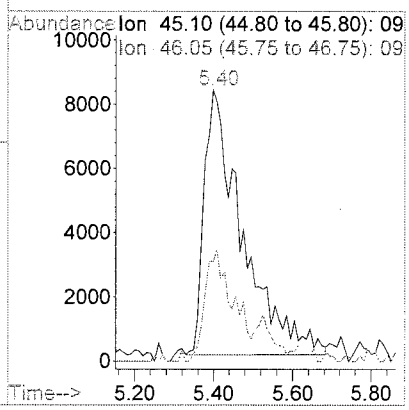


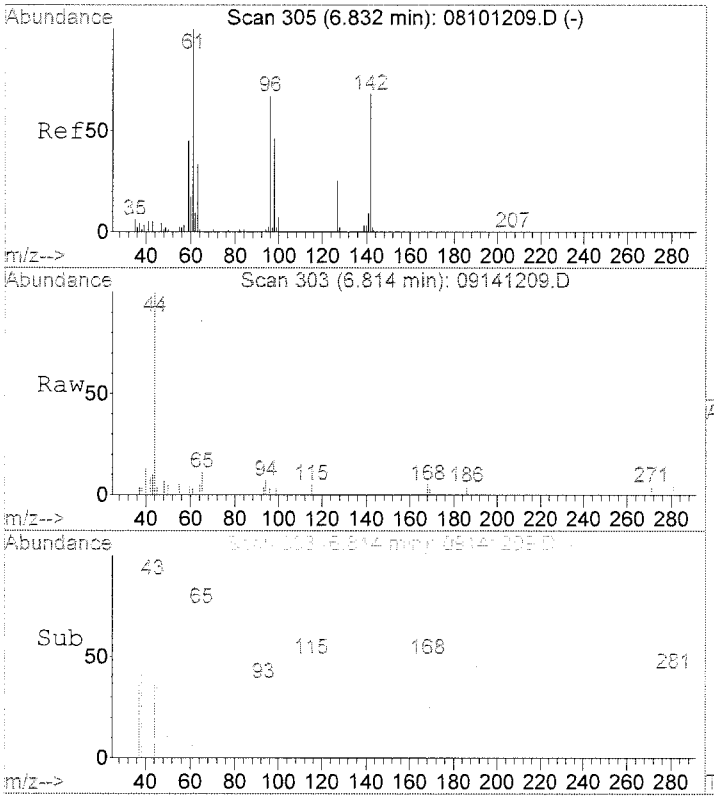


#2
Ethanol
Concen: 1686.88 ug/L
RT: 5.40 min Scan# 159
Delta R.T. 0.00 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 45 Resp: 56043

Ion	Ratio	Lower	Upper
45	100		
46	30.8	39.9	79.9#

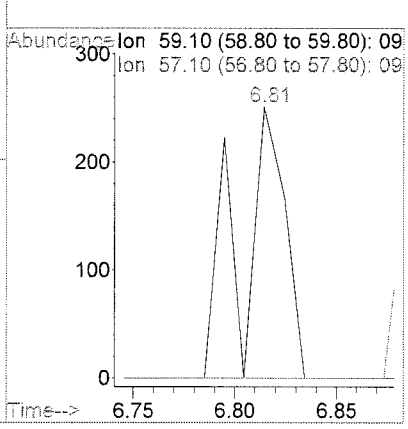


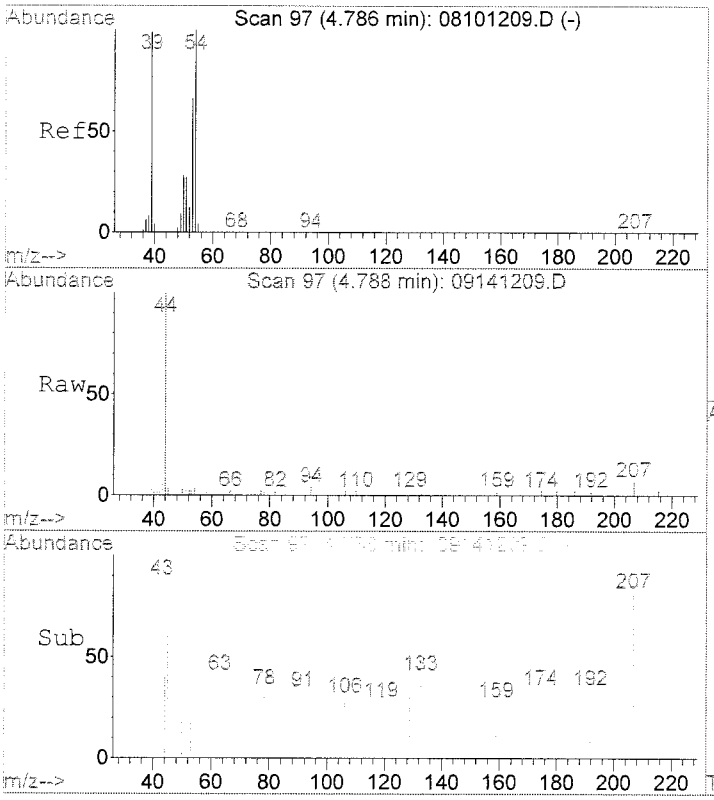


#3
tert-Butanol (TBA)
Concen: 1.05 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.02 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 59 Resp: 378

Ion	Ratio	Lower	Upper
59	100		
57	89.4	6.4	9.6#

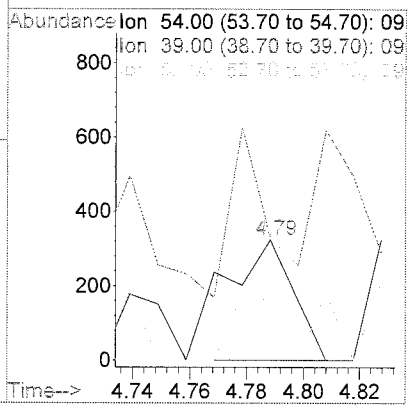


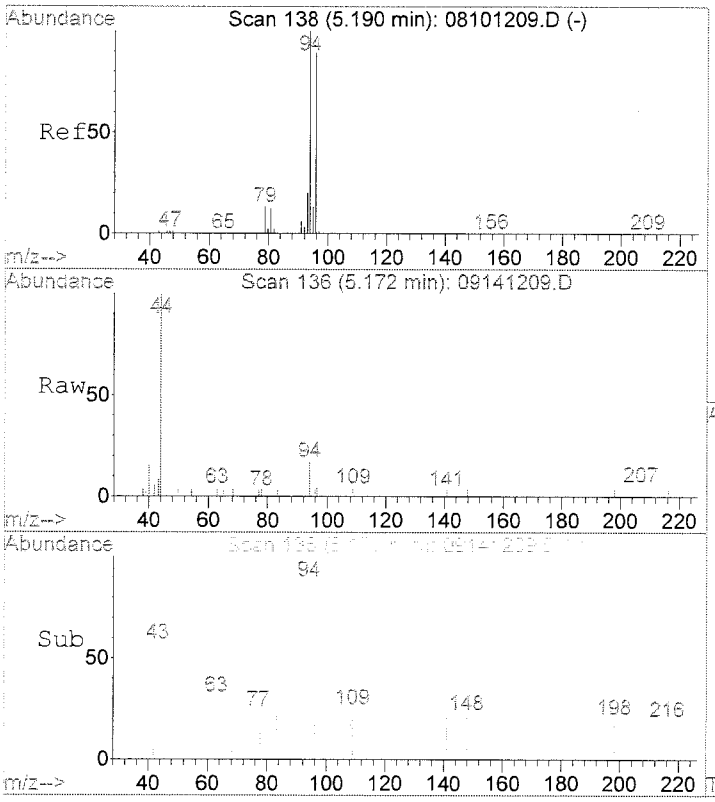


#8
1,3-Butadiene
Concen: 0.10 ug/L
RT: 4.79 min Scan# 97
Delta R.T. 0.00 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 54 Resp: 544

Ion	Ratio	Lower	Upper
54	100		
39	76.7	86.0	129.0#
53	36.8	56.2	84.4#

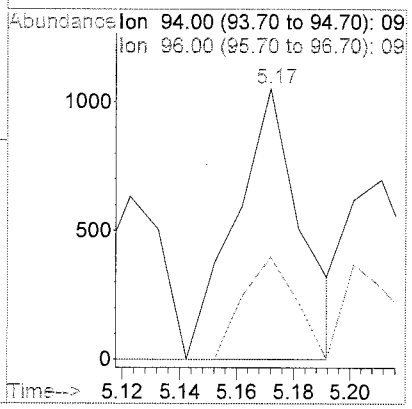


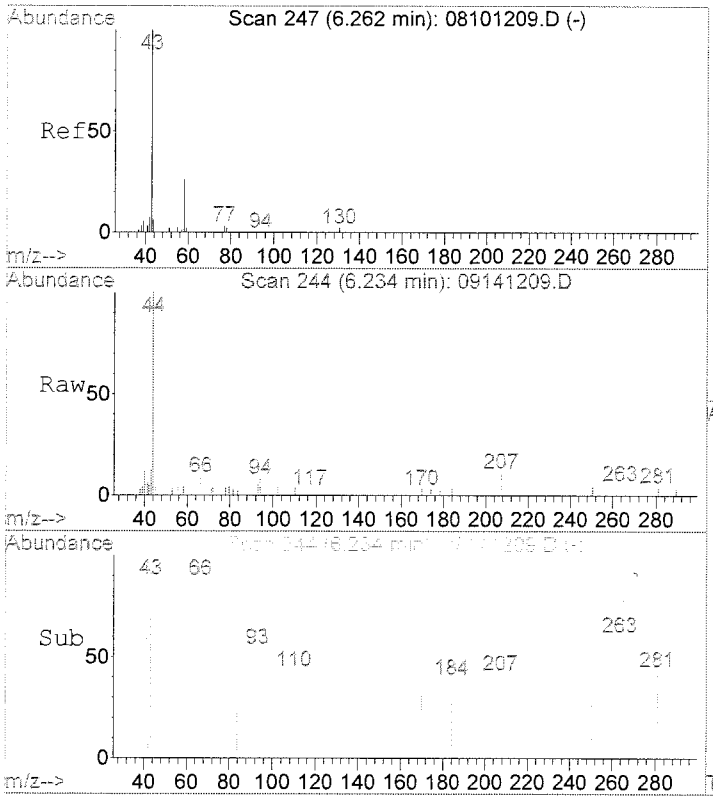


#9
Bromomethane
Concen: 0.28 ug/L
RT: 5.17 min Scan# 136
Delta R.T. -0.02 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 94 Resp: 1683

Ion	Ratio	Lower	Upper
94	100		
96	30.3	75.8	113.6#

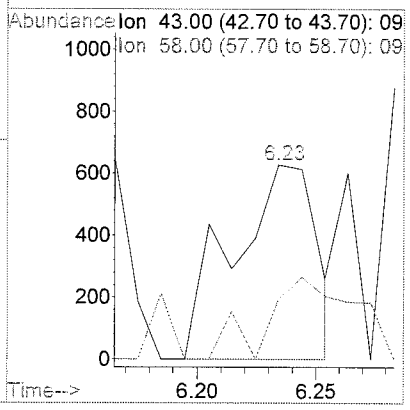




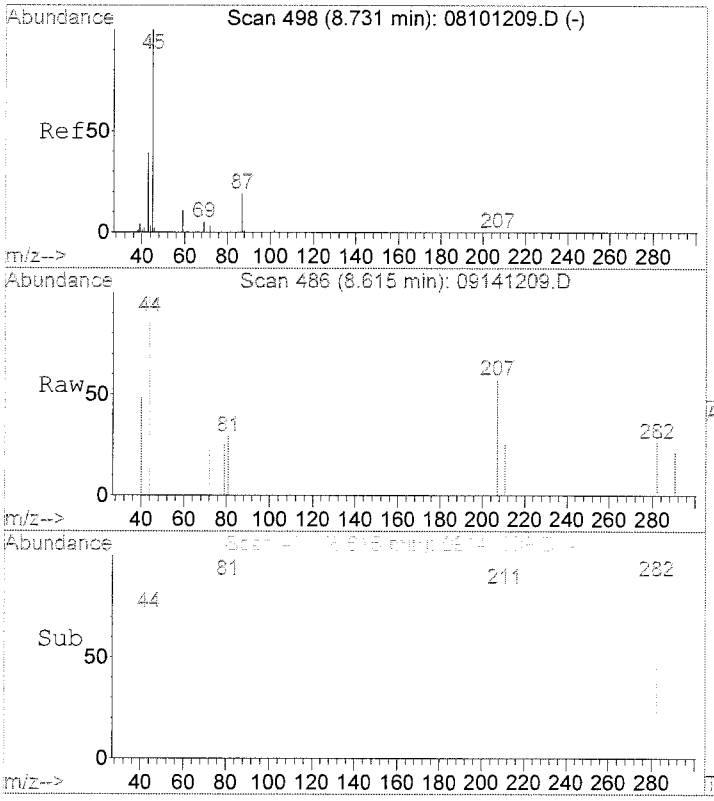
#12
Acetone
Concen: 1.23 ug/L
RT: 6.23 min Scan# 244
Delta R.T. -0.03 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 43 Resp: 1544

Ion	Ratio	Lower	Upper
43	100		
58	45.2	25.9	38.9#



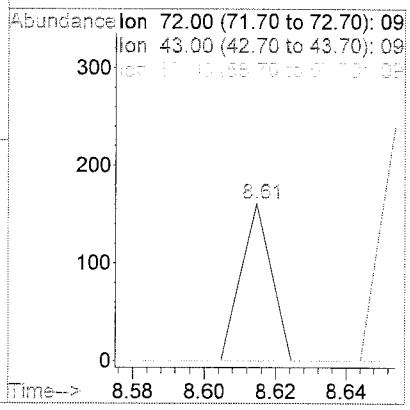
9



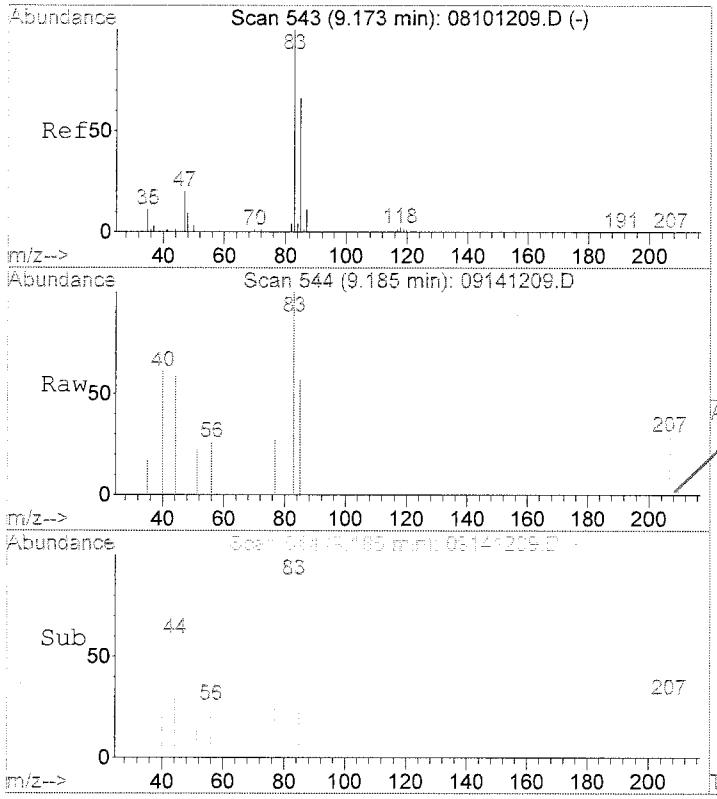
#23
2-Butanone (MEK)
Concen: 0.22 ug/L
RT: 8.61 min Scan# 486
Delta R.T. -0.12 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 72 Resp: 95

Ion	Ratio	Lower	Upper
72	100		
43	0.0	1366.5	2049.7#
57	109.5	0.0	0.0#



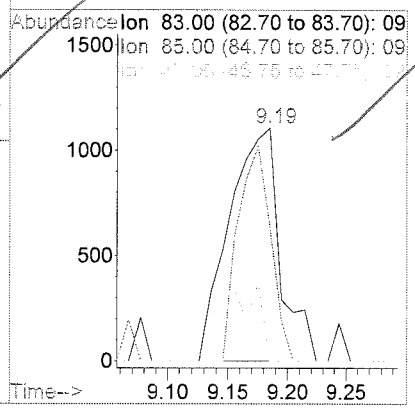
MM

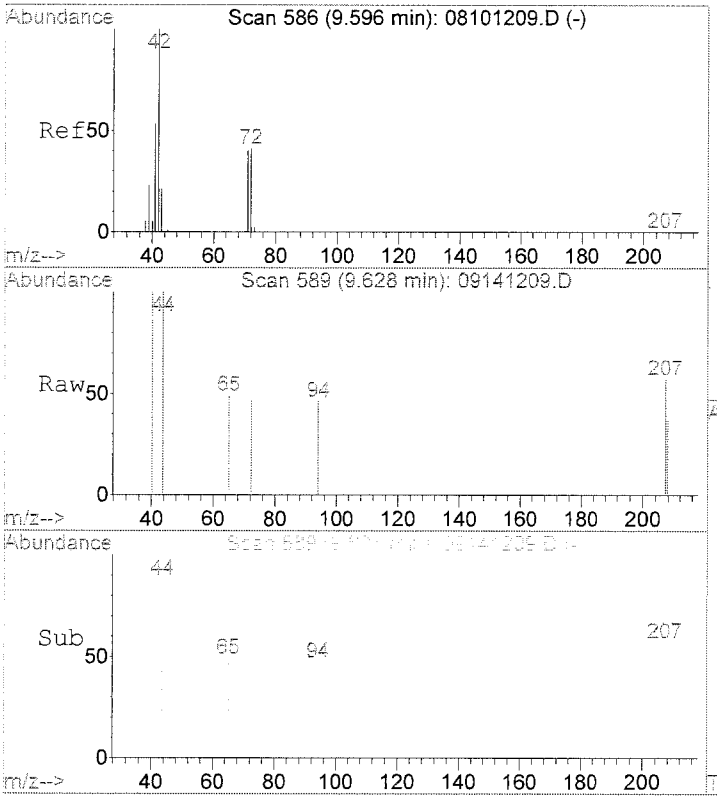


#27
Chloroform
Concen: 0.35 ug/L
RT: 9.19 min Scan# 544
Delta R.T. 0.01 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 83 Resp: 3282

Ion	Ratio	Lower	Upper
83	100		
85	59.5	51.6	77.4
47	16.4	18.9	28.3#

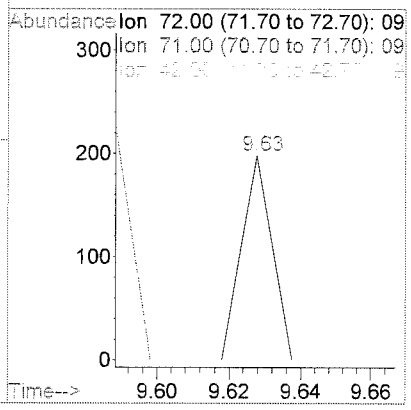


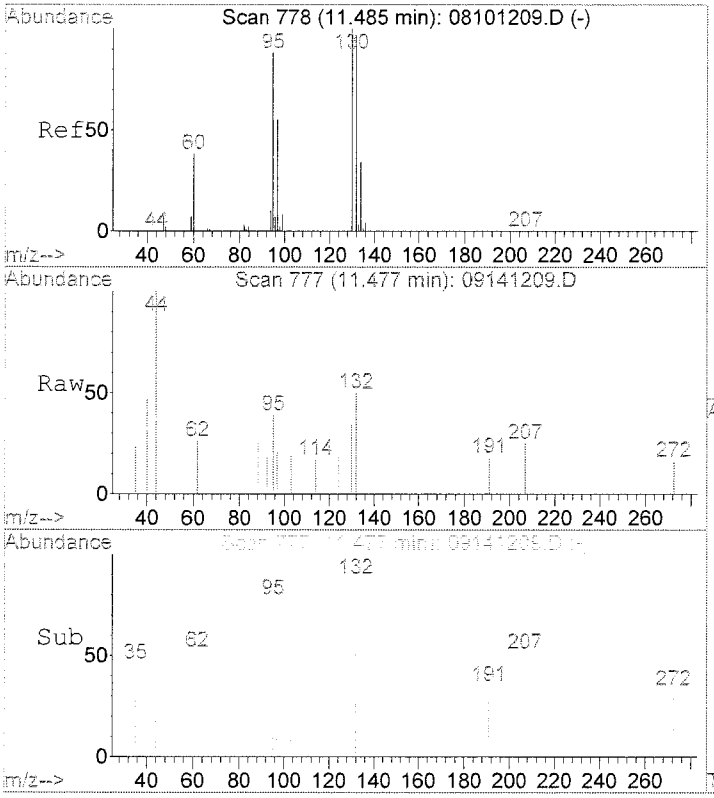


#31
Tetrahydrofuran
Concen: 0.30 ug/L
RT: 9.63 min Scan# 589
Delta R.T. 0.03 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 72 Resp: 117

Ion	Ratio	Lower	Upper
72	100		
71	113.7	79.1	118.7
42	91.5	217.1	325.7#

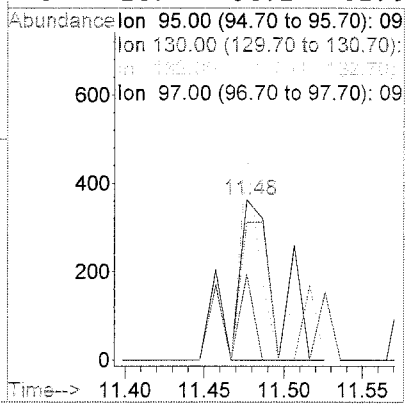


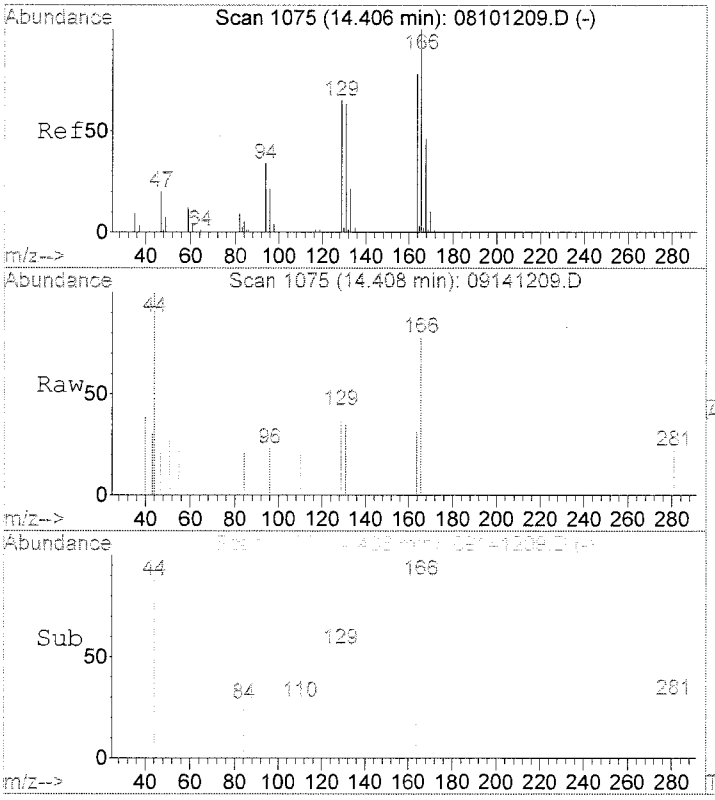


#41
Trichloroethene
Concen: 0.12 ug/L
RT: 11.48 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 95 Resp: 678

Ion	Ratio	Lower	Upper
95	100		
130	54.3	87.3	130.9#
132	55.3	84.2	126.4#
97	14.7	54.2	81.4#

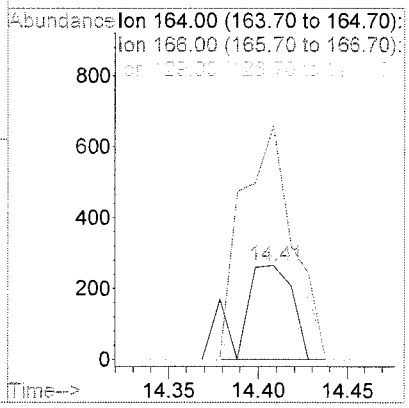




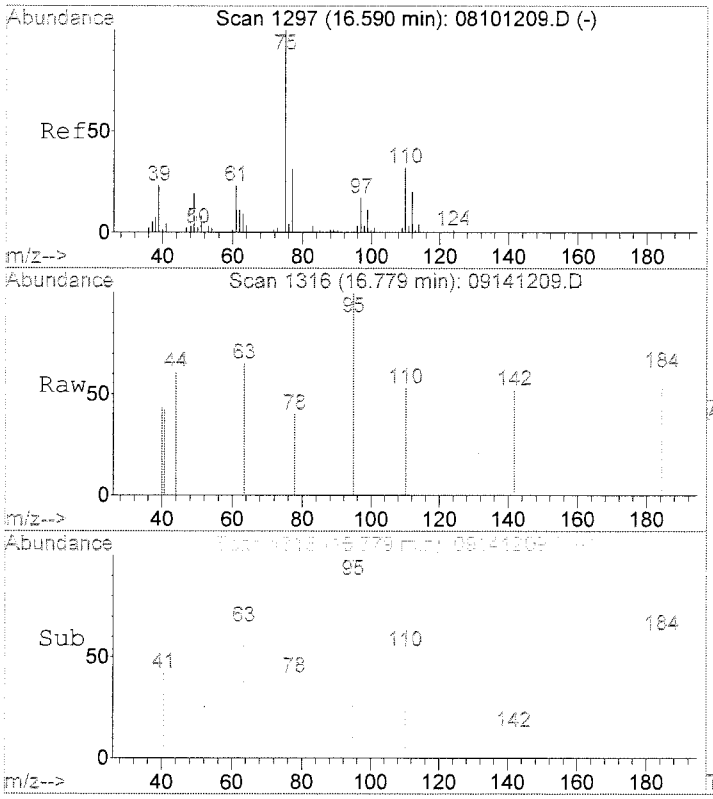
#55
Tetrachloroethene
Concen: 0.10 ug/L
RT: 14.41 min Scan# 1075
Delta R.T. 0.00 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion:164 Resp: 533

Ion	Ratio	Lower	Upper
164	100		
166	242.8	102.1	153.1#
129	97.0	66.5	99.7



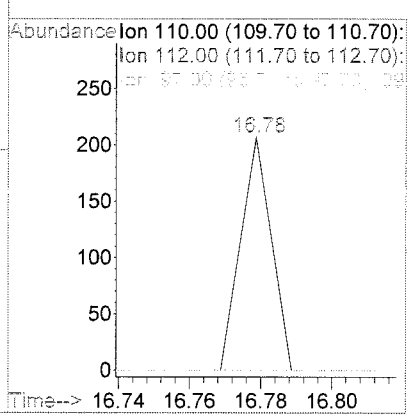
MM

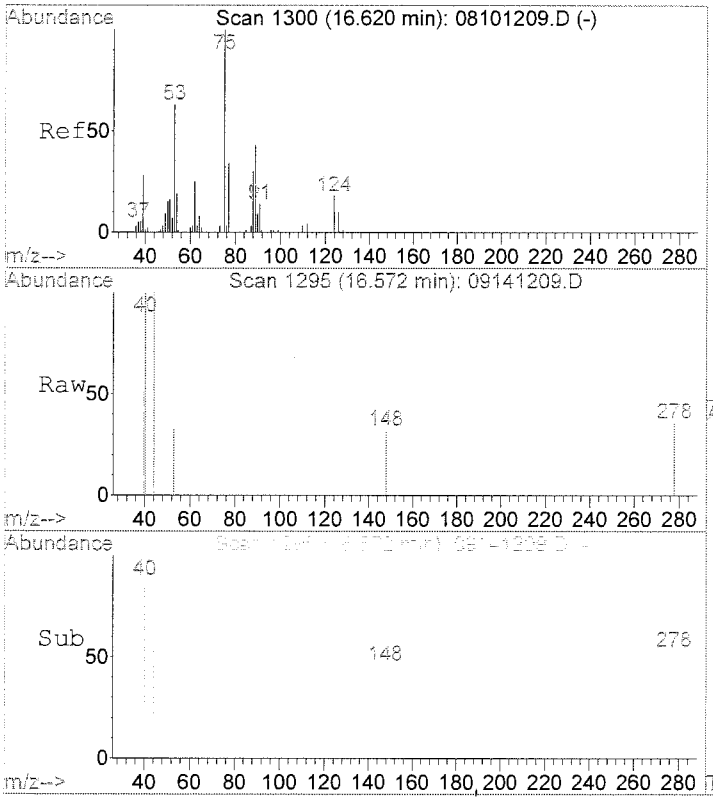


#66
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 16.78 min Scan# 1316
Delta R.T. 0.19 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion:110 Resp: 122

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	107.4	42.2	63.2#

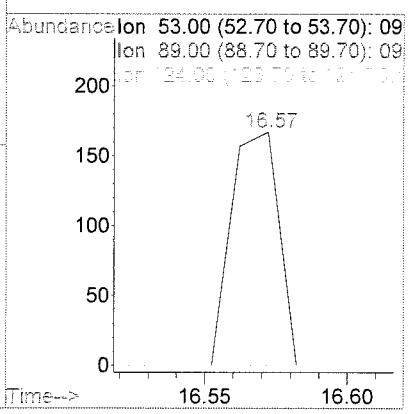


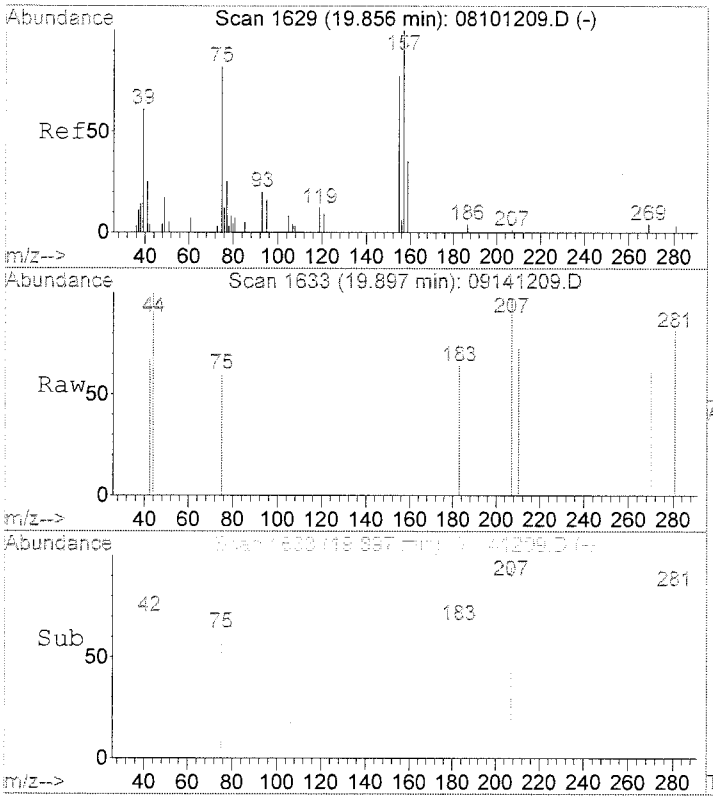


#67
trans-1,4-Dichloro-2-butene
Concen: 1.26 ug/L
RT: 16.57 min Scan# 1295
Delta R.T. -0.05 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 53 Resp: 191

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

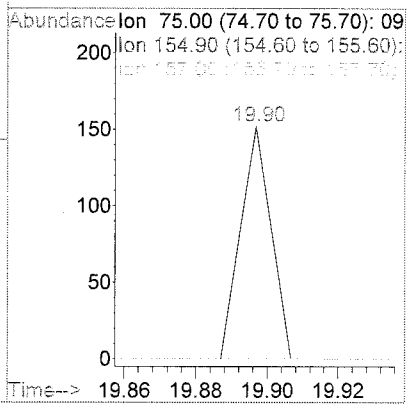


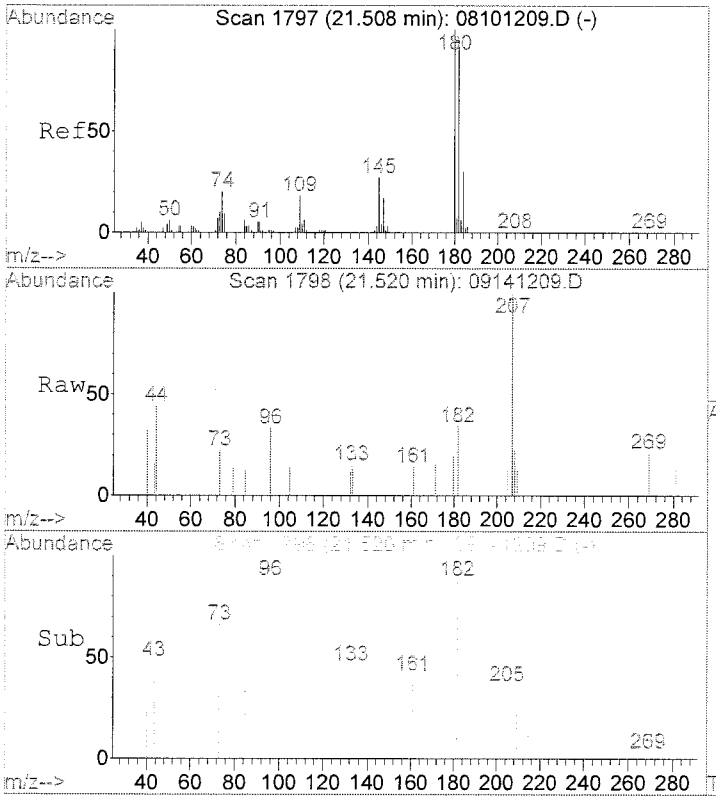


#82
1,2-Dibromo-3-chloropropane
Concen: 0.46 ug/L
RT: 19.90 min Scan# 1633
Delta R.T. 0.04 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion: 75 Resp: 90

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

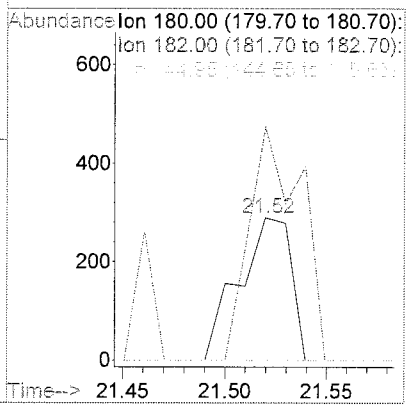


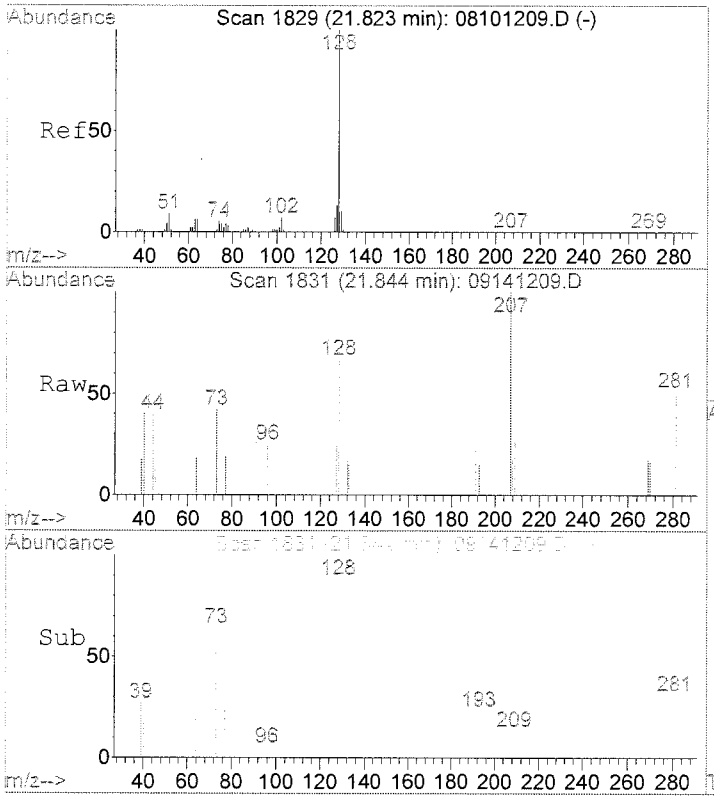


#83
1,2,4-Trichlorobenzene
Concen: 0.15 ug/L
RT: 21.52 min Scan# 1798
Delta R.T. 0.01 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion:180 Resp: 515

Ion	Ratio	Lower	Upper
180	100		
182	161.6	77.9	116.9#
145	0.0	22.8	34.2#

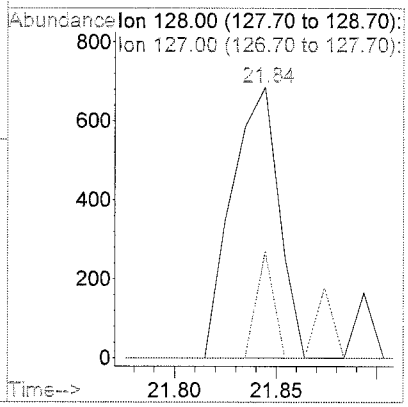


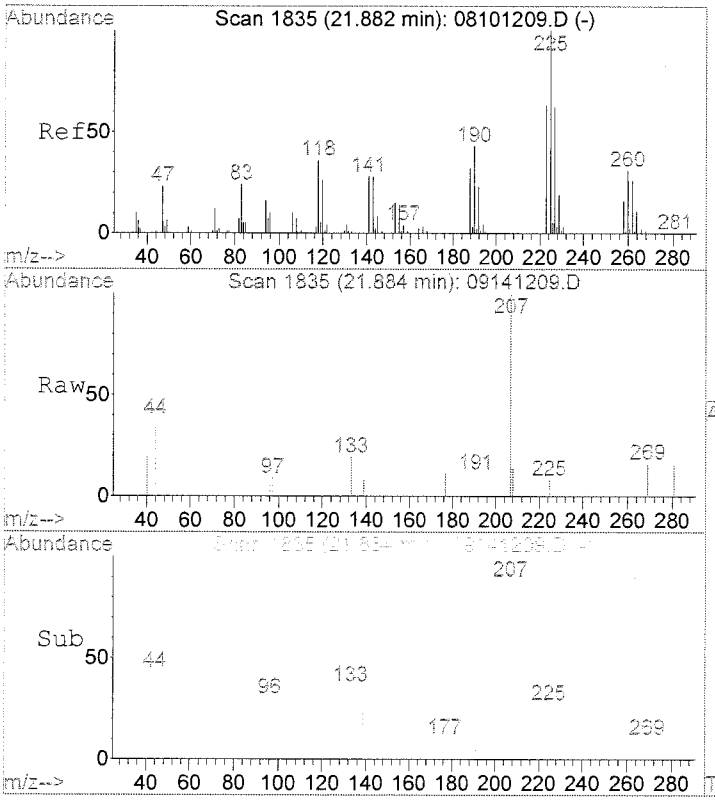


#84
Napthalene
Concen: 0.21 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.02 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion:128 Resp: 1105

Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.2	15.4

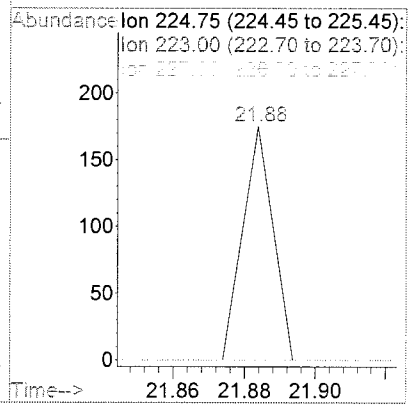




#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.88 min Scan# 1835
Delta R.T. 0.00 min
Lab File: 09141209.D
Acq: 14 Sep 2012 10:45 am

Tgt Ion:225 Resp: 103

Ion	Ratio	Lower	Upper
225	100		
223	92.2	47.8	71.8#
227	0.0	50.6	75.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141210.D Vial: 10
Acq On : 14 Sep 2012 11:18 am Operator: MNM
Sample : PVI0635-05 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	68876	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	276461	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	394644	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	273785	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.75	152	109479	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	126493	26.16 ug/L	-0.02
Spiked Amount 25.000			Recovery =	104.64%	
48) Toluene-d8	13.31	98	373096	23.94 ug/L	-0.02
Spiked Amount 25.000			Recovery =	95.76%	
62) 4-Bromofluorobenzene	16.93	95	106401	25.15 ug/L	-0.02
Spiked Amount 25.000			Recovery =	100.60%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	64279	1731.04 ug/L #	66
3) tert-Butanol (TBA)	6.83	59	133	0.33 ug/L #	77
8) 1,3-Butadiene	4.77	54	595	0.12 ug/L #	26
9) Bromomethane	5.03	94	1733	0.31 ug/L #	32
12) Acetone	6.22	43	1959	1.68 ug/L #	87
23) 2-Butanone (MEK)	8.60	72	125	0.31 ug/L #	1
27) Chloroform	9.15	83	4840	0.55 ug/L #	95
31) Tetrahydrofuran	9.61	72	89	0.25 ug/L #	1
34) (TAME) tert-Amyl methyl et	10.92	73	3906	0.40 ug/L #	40
55) Tetrachloroethene	14.40	164	2618	0.54 ug/L	90
66) 1,2,3-Trichloropropane	16.73	110	90	0.13 ug/L #	22
82) 1,2-Dibromo-3-chloropropan	19.88	75	101	0.51 ug/L #	1
84) Napthalene	21.84	128	640	0.13 ug/L #	91
86) 1,2,3-Trichlorobenzene	22.01	180	112	Below Cal #	32

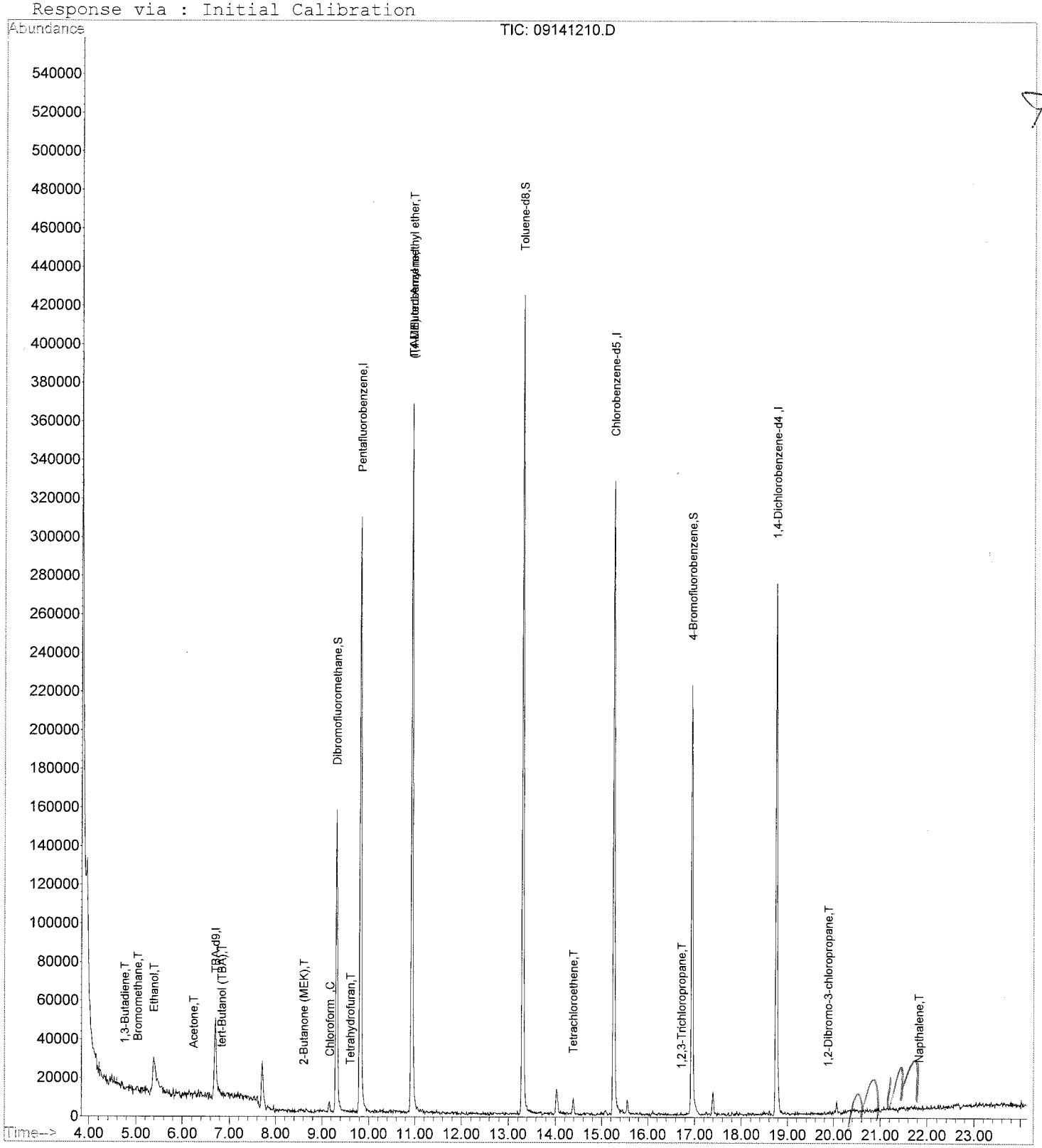
MM 9/17/12

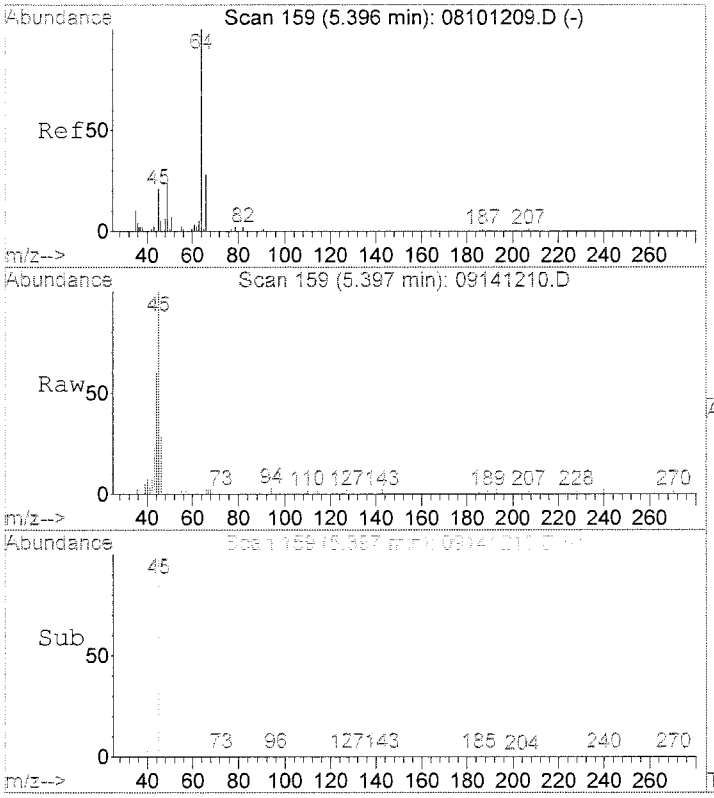
(#) = qualifier out of range (m) = manual integration
09141210.D 081012.M Fri Sep 14 14:37:01 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141210.D Vial: 10
Acq On : 14 Sep 2012 11:18 am Operator: MNM
Sample : PVI0635-05 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

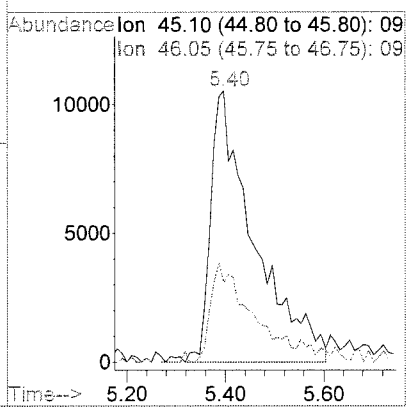


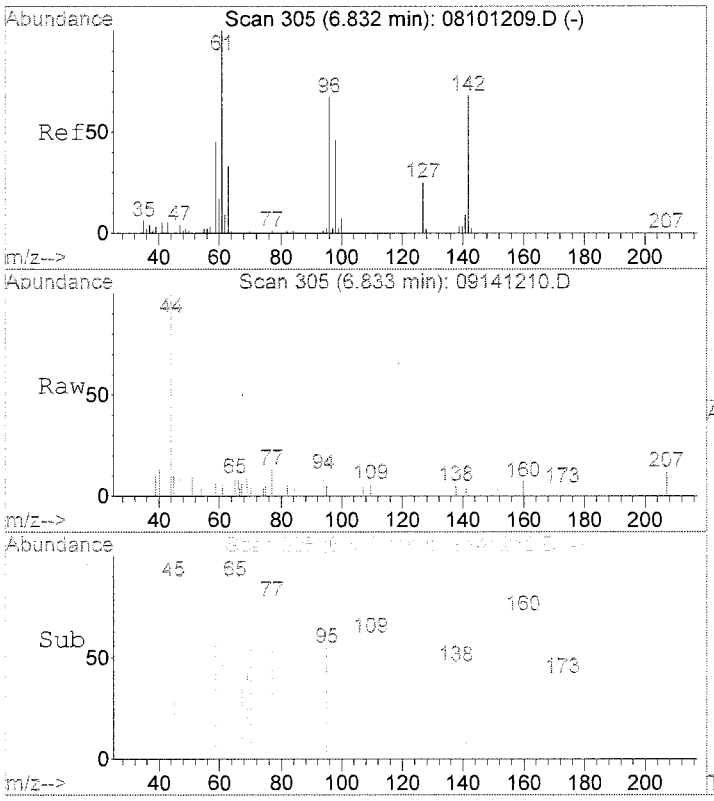


#2
Ethanol
Concen: 1731.04 ug/L
RT: 5.40 min Scan# 159
Delta R.T. 0.00 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 45 Resp: 64279

Ion	Ratio	Lower	Upper
45	100		
46	34.0	39.9	79.9#

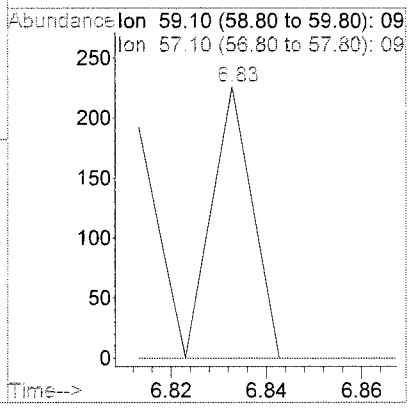




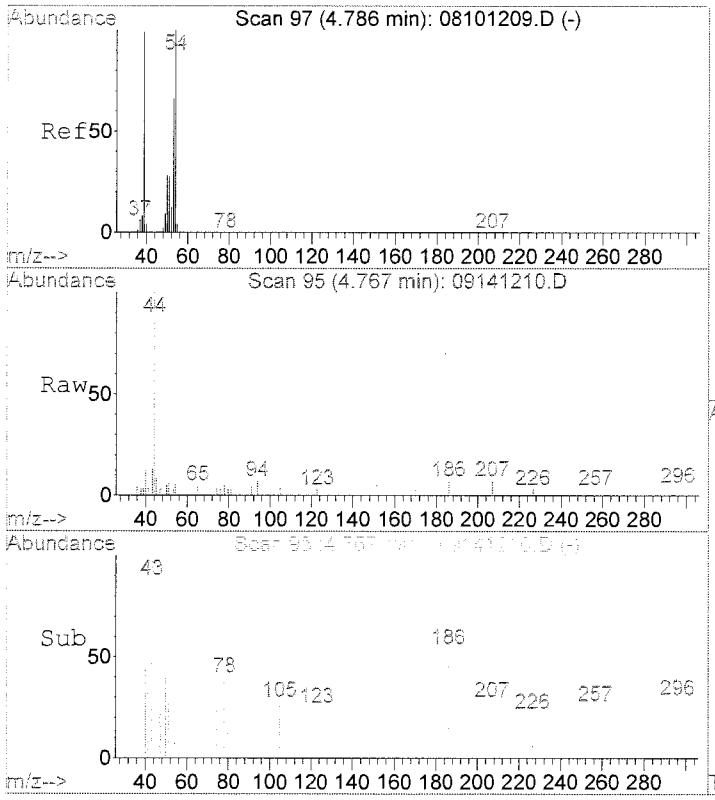
#3
tert-Butanol (TBA)
Concen: 0.33 ug/L
RT: 6.83 min Scan# 305
Delta R.T. 0.00 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 59 Resp: 133

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#



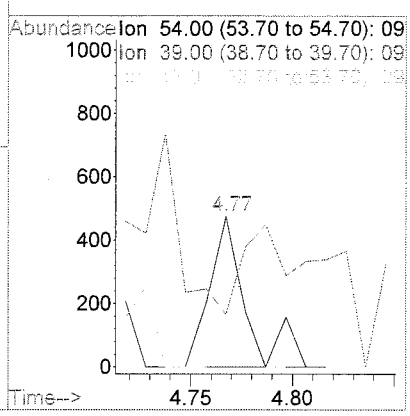
MM



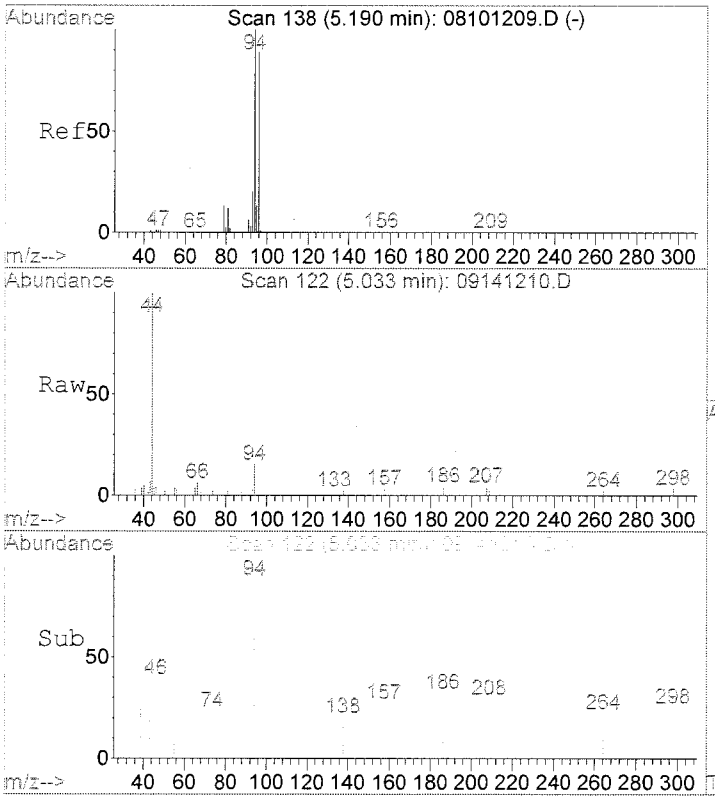
#8
1,3-Butadiene
Concen: 0.12 ug/L
RT: 4.77 min Scan# 95
Delta R.T. -0.02 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 54 Resp: 595

Ion	Ratio	Lower	Upper
54	100		
39	0.0	86.0	129.0#
53	45.9	56.2	84.4#



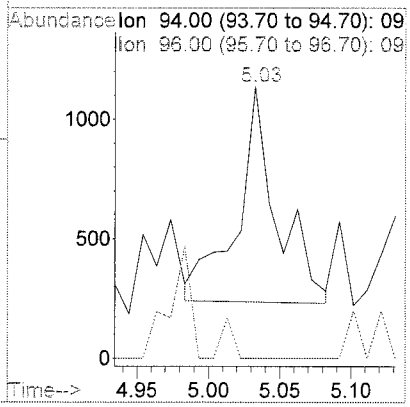
7



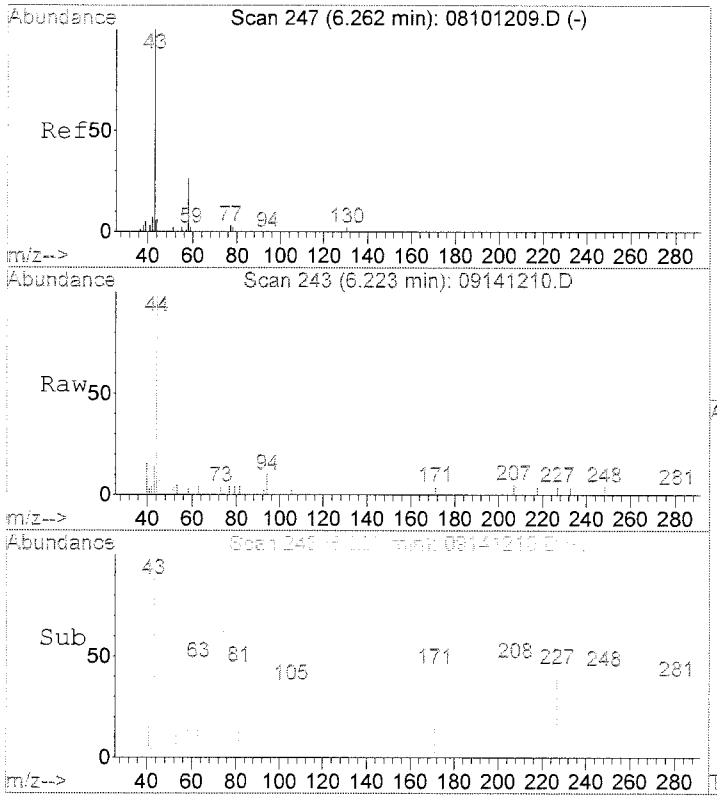
#9
Bromomethane
Concen: 0.31 ug/L
RT: 5.03 min Scan# 122
Delta R.T. -0.16 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 94 Resp: 1733

Ion	Ratio	Lower	Upper
94	100		
96	28.4	75.8	113.6#



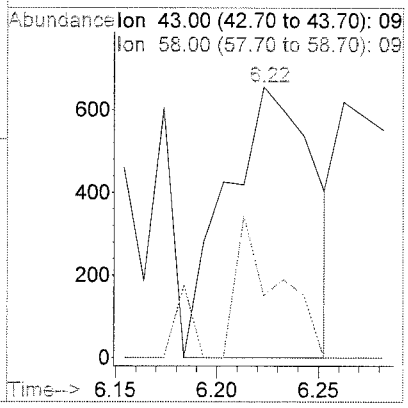
MM

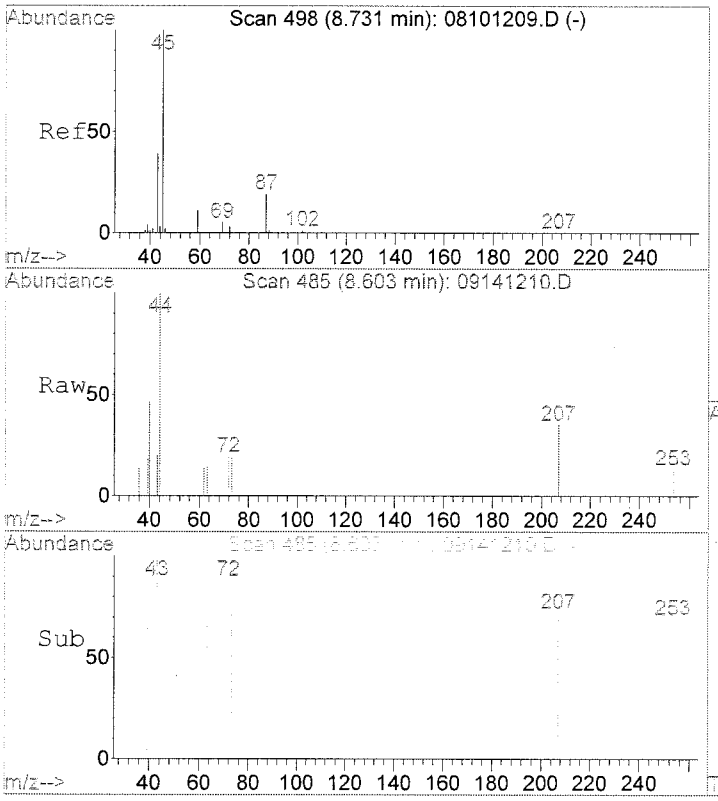


#12
Acetone
Concen: 1.68 ug/L
RT: 6.22 min Scan# 243
Delta R.T. -0.04 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 43 Resp: 1959

Ion	Ratio	Lower	Upper
43	100		
58	25.2	25.9	38.9#

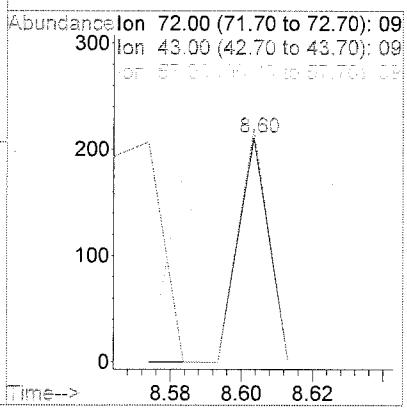




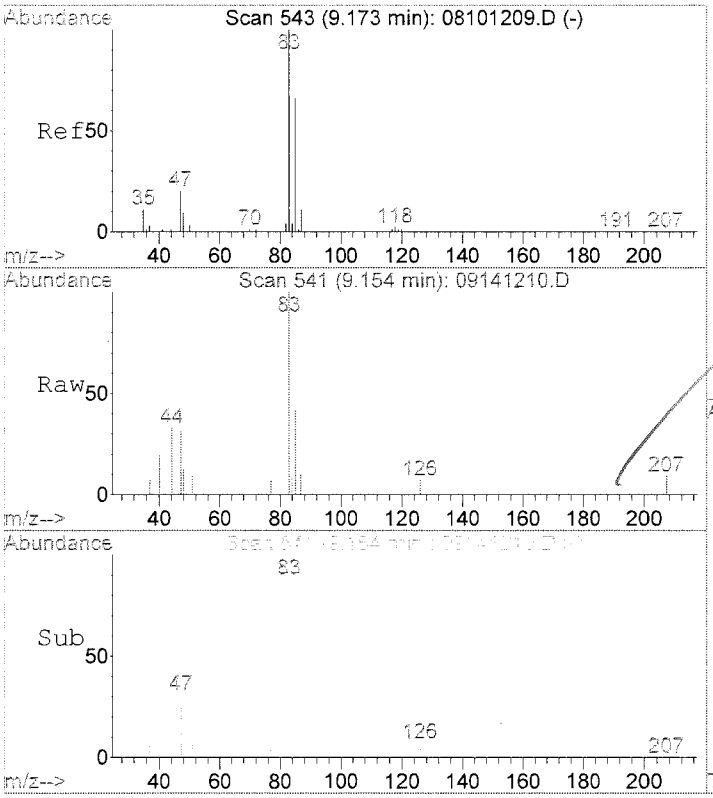
#23
2-Butanone (MEK)
Concen: 0.31 ug/L
RT: 8.60 min Scan# 485
Delta R.T. -0.13 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 72 Resp: 125

Ion	Ratio	Lower	Upper
72	100		
43	260.8	1366.5	2049.7#
57	85.6	0.0	0.0#



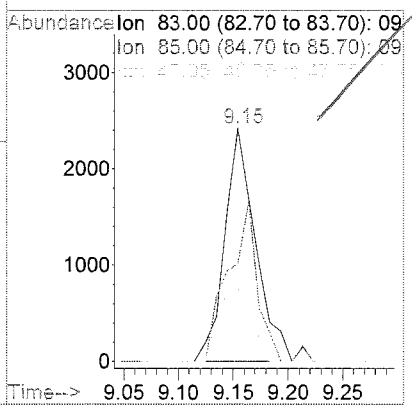
MM

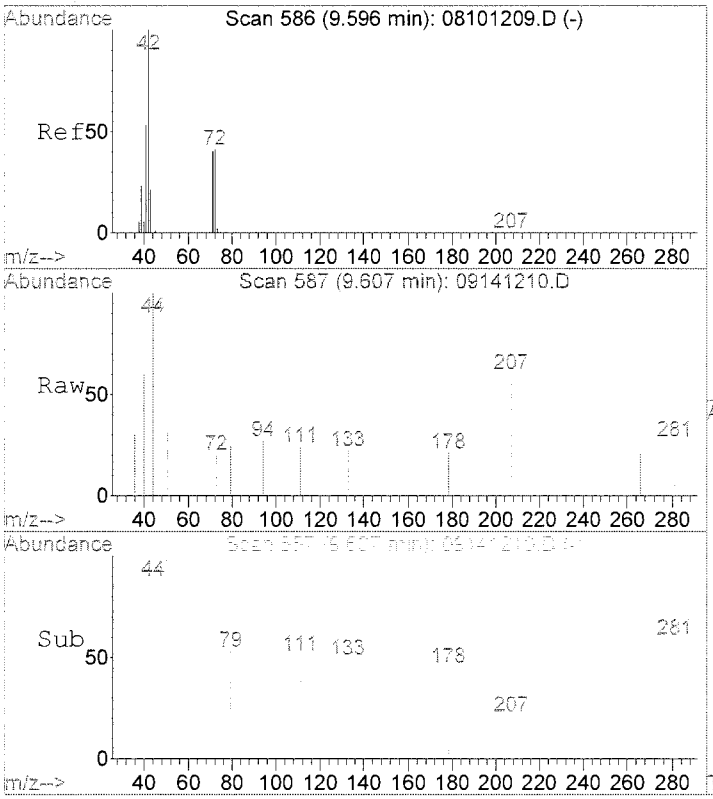


#27
Chloroform
Concen: 0.55 ug/L
RT: 9.15 min Scan# 541
Delta R.T. -0.02 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 83 Resp: 4840

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.6	77.4
47	30.4	18.9	28.3#

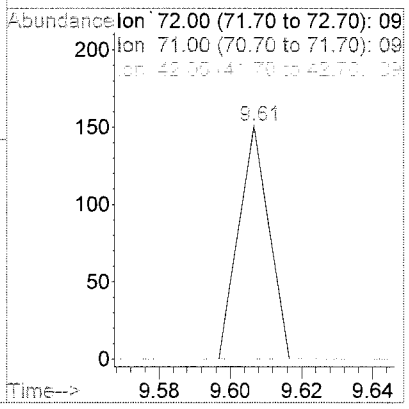




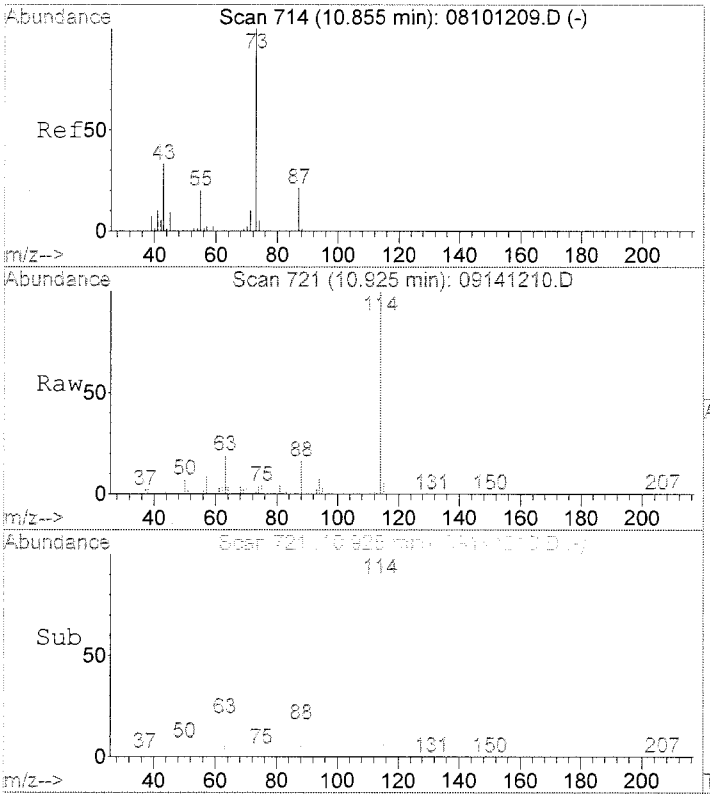
#31
Tetrahydrofuran
Concen: 0.25 ug/L
RT: 9.61 min Scan# 587
Delta R.T. 0.01 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 72 Resp: 89

Ion	Ratio	Lower	Upper
72	100		
71	223.6	79.1	118.7#
42	0.0	217.1	325.7#



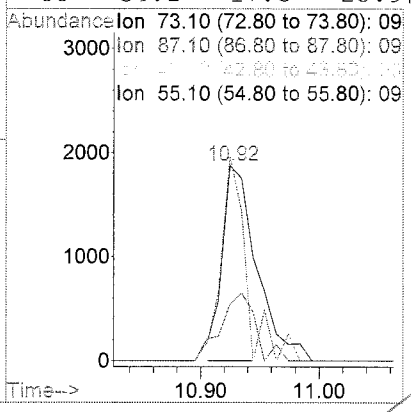
MM

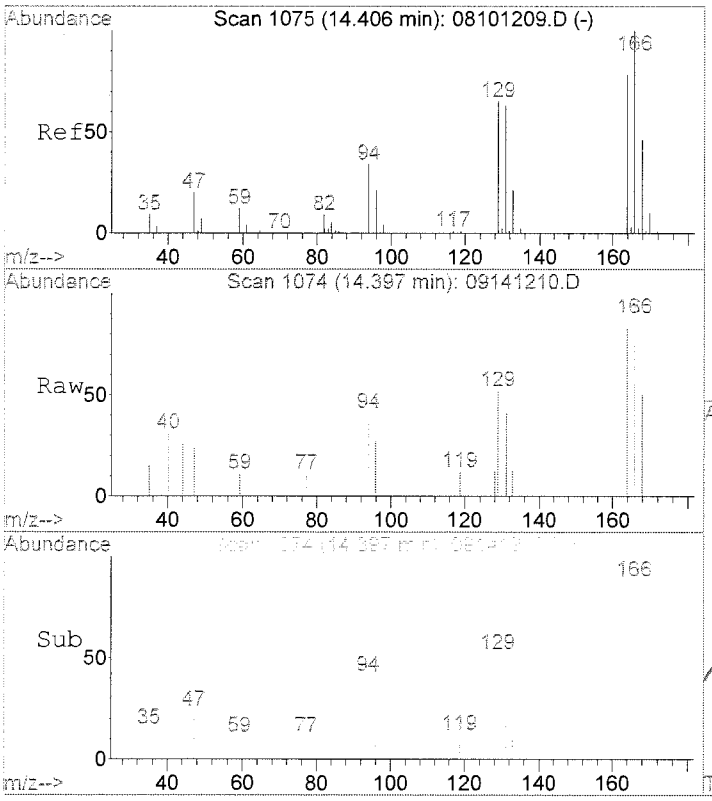


#34
(TAME) tert-Amyl methyl ether
Concen: 0.40 ug/L
RT: 10.92 min Scan# 721
Delta R.T. 0.07 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 73 Resp: 3906

Ion	Ratio	Lower	Upper
73	100		
87	75.2	16.4	24.6#
43	7.5	27.0	40.4#
55	34.1	17.3	25.9#

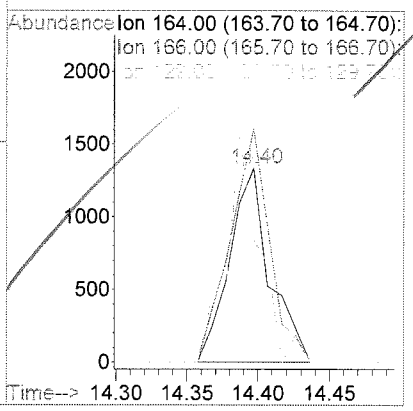




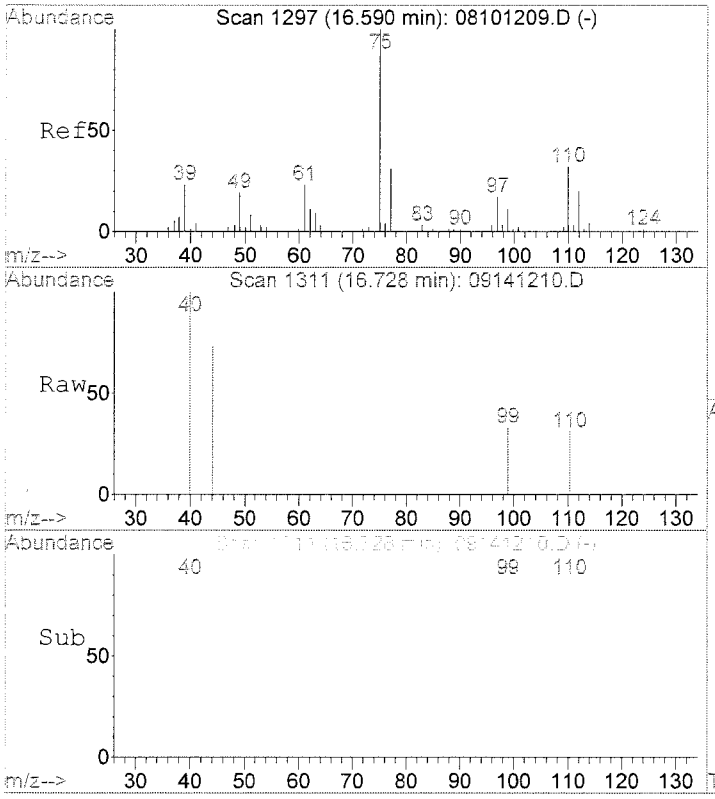
#55
Tetrachloroethene
Concen: 0.54 ug/L
RT: 14.40 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion:164 Resp: 2618

Ion	Ratio	Lower	Upper
164	100		
166	117.4	102.1	153.1
129	94.8	66.5	99.7



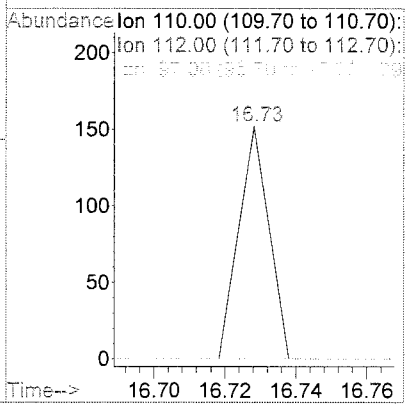
MM

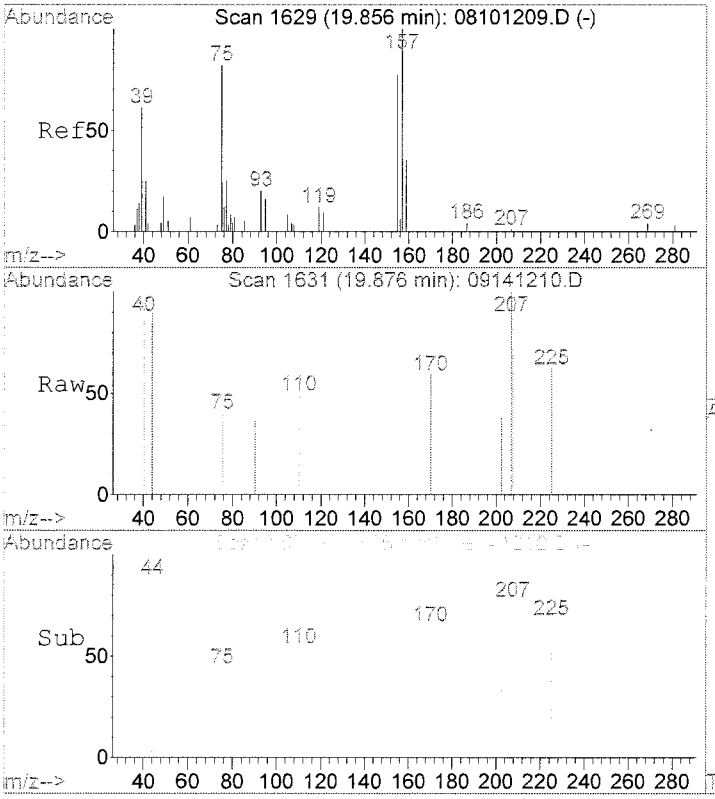


#66
1,2,3-Trichloropropane
Concen: 0.13 ug/L
RT: 16.73 min Scan# 1311
Delta R.T. 0.14 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion:110 Resp: 90

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

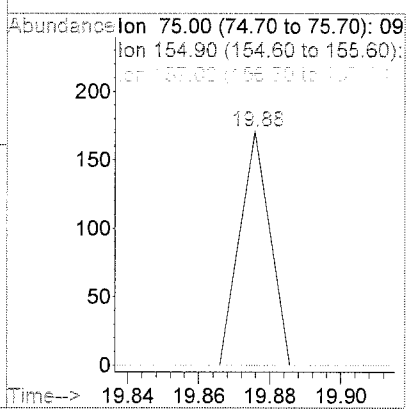


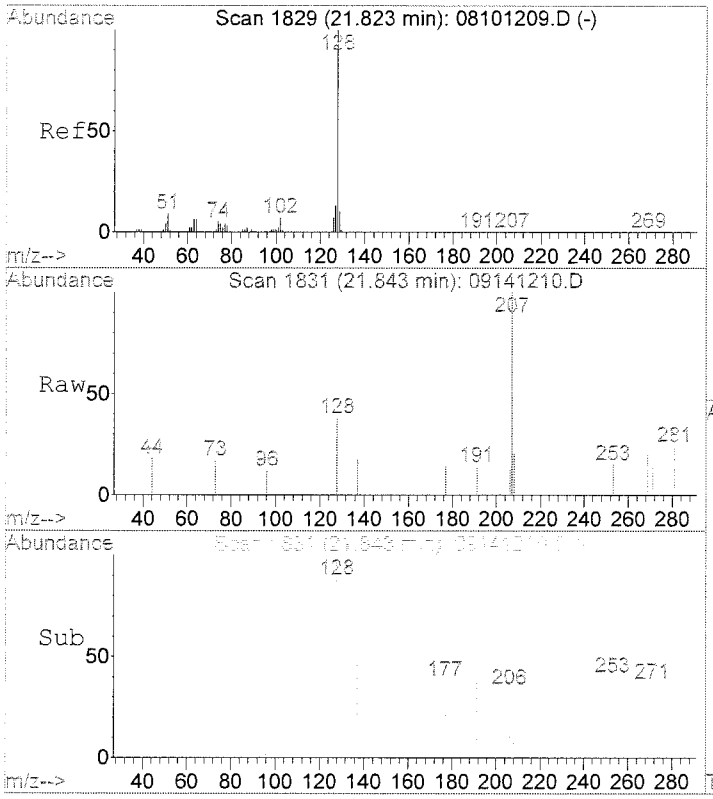


#82
1,2-Dibromo-3-chloropropane
Concen: 0.51 ug/L
RT: 19.88 min Scan# 1631
Delta R.T. 0.02 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion: 75 Resp: 101

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

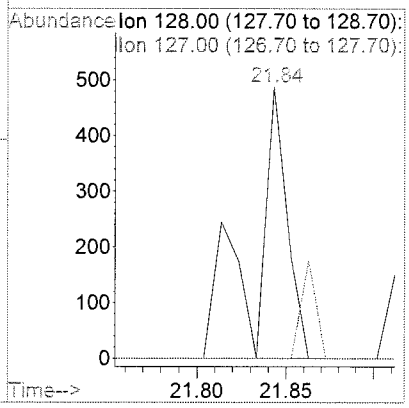


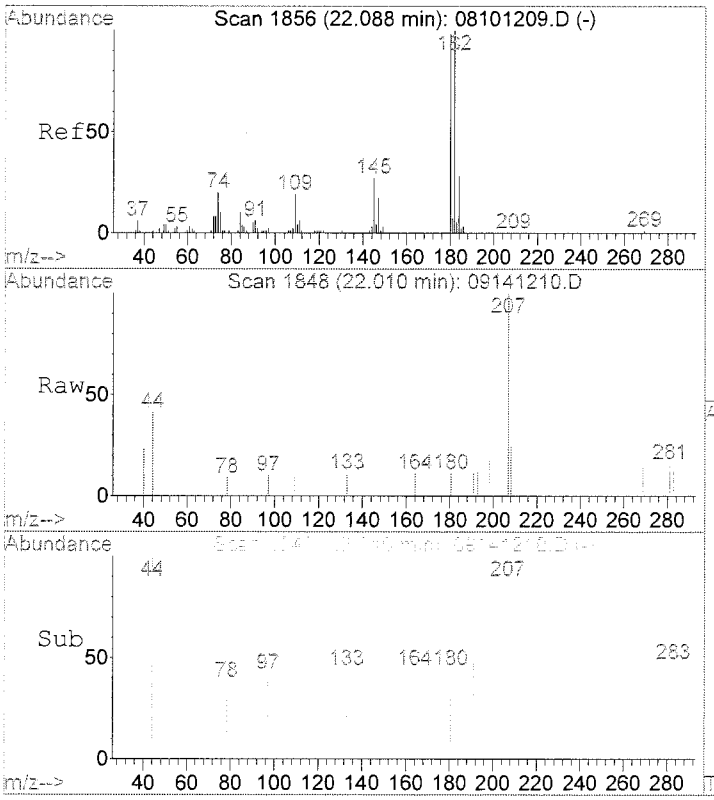


#84
Napthalene
Concen: 0.13 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.02 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion:128 Resp: 640

Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.2	15.4#

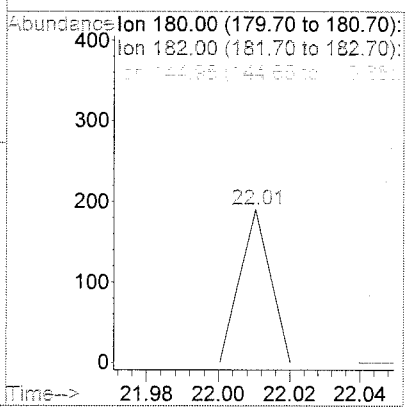




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.01 min Scan# 1848
Delta R.T. -0.08 min
Lab File: 09141210.D
Acq: 14 Sep 2012 11:18 am

Tgt Ion:180 Resp: 112

Ion	Ratio	Lower	Upper
180	100		
182	79.5	78.9	118.3
145	152.7	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141211.D Vial: 11
Acq On : 14 Sep 2012 11:50 am Operator: MNM
Sample : PVI0635-06 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

✓ 9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	59639	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	261109	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	377284	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.26	117	275370	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	101871	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	121709	26.65 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 106.60%	
48) Toluene-d8	13.31	98	368599	24.74 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 98.96%	
62) 4-Bromofluorobenzene	16.94	95	108142	25.41 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 101.64%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	61233	1904.41 ug/L #	57
3) tert-Butanol (TBA)	6.82	59	136	0.39 ug/L #	1
5) Dichlorodifluoromethane	3.99	85	1797	0.19 ug/L	69
9) Bromomethane	5.31	94	2150	0.41 ug/L #	2
11) Trichlorofluoromethane	6.09	101	1018	0.13 ug/L #	77
12) Acetone	6.27	43	3380	3.07 ug/L #	50
27) Chloroform	9.17	83	4813	0.58 ug/L	94
31) Tetrahydrofuran	9.61	72	94	0.27 ug/L #	8
34) (TAME) tert-Amyl methyl et	10.93	73	3416	0.37 ug/L #	45
41) Trichloroethene	11.47	95	574	0.11 ug/L #	38
55) Tetrachloroethene	14.39	164	2120	0.44 ug/L #	90
67) trans-1,4-Dichloro-2-buten	16.60	53	94	1.16 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.83	75	90	0.50 ug/L #	1
86) 1,2,3-Trichlorobenzene	22.20	180	112	Below Cal #	11

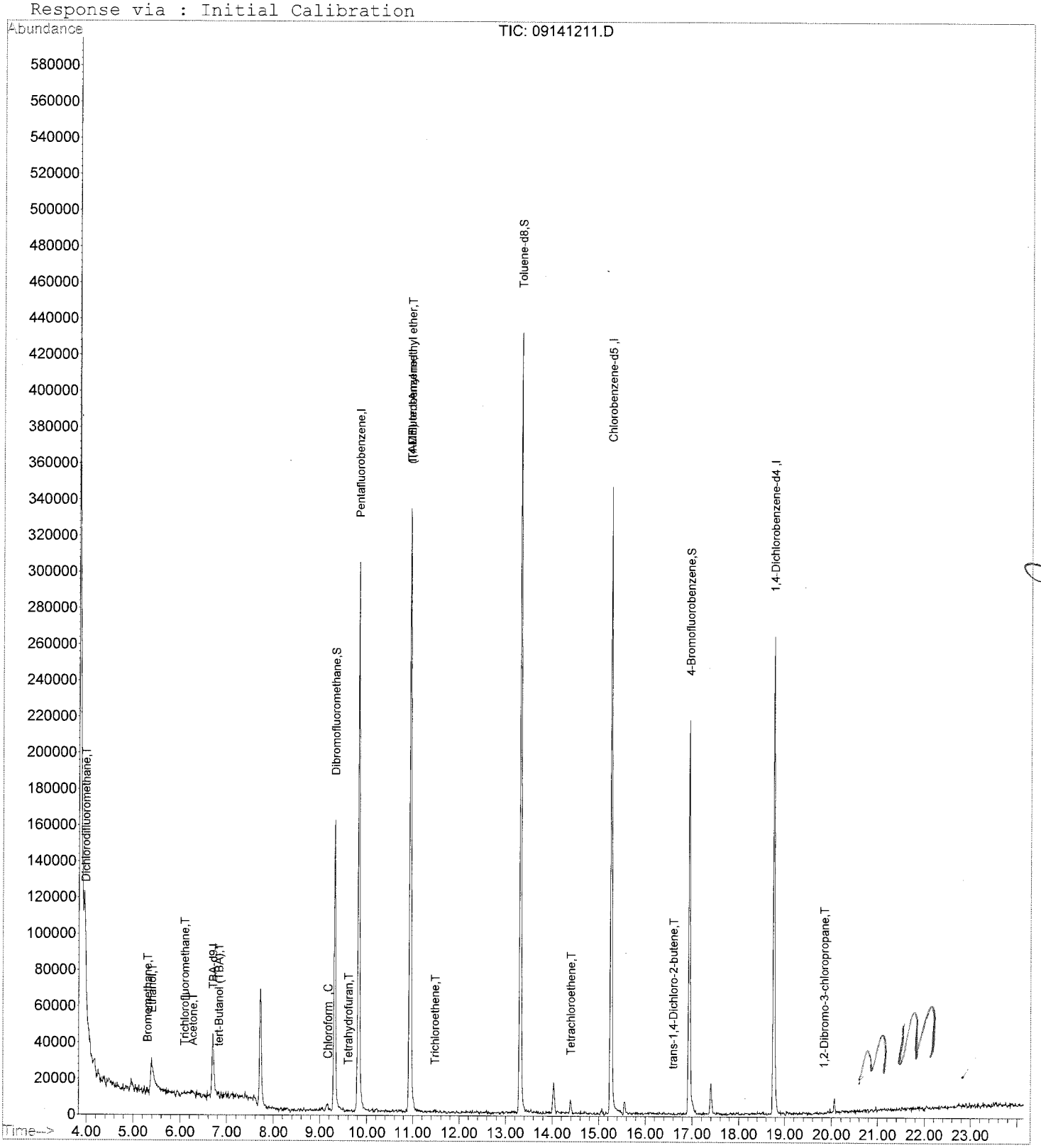
MM
9/17/12

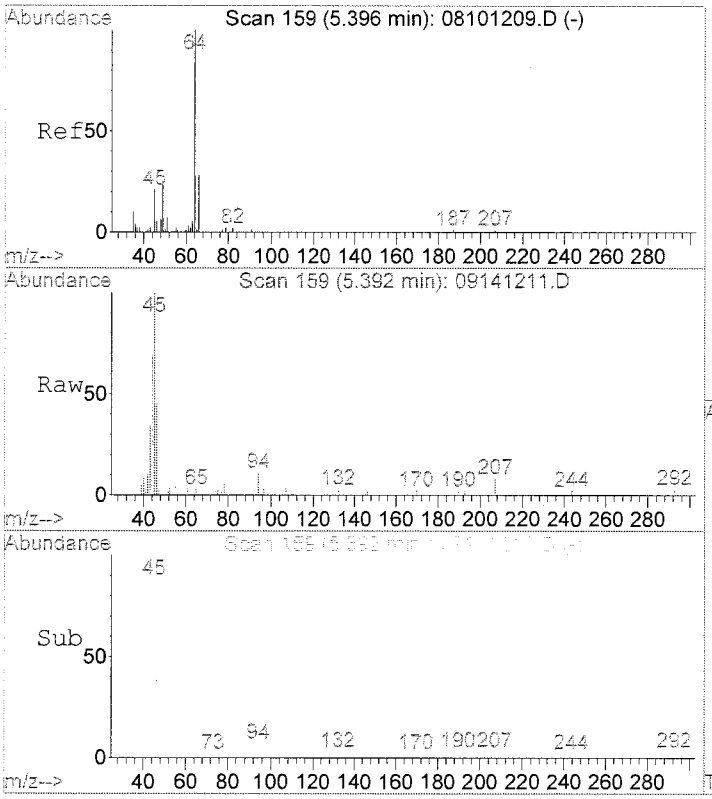
(#) = qualifier out of range (m) = manual integration
09141211.D 081012.M Fri Sep 14 14:37:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141211.D Vial: 11
Acq On : 14 Sep 2012 11:50 am Operator: MNM
Sample : PVI0635-06 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

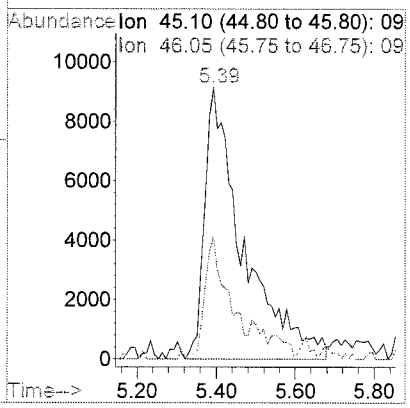


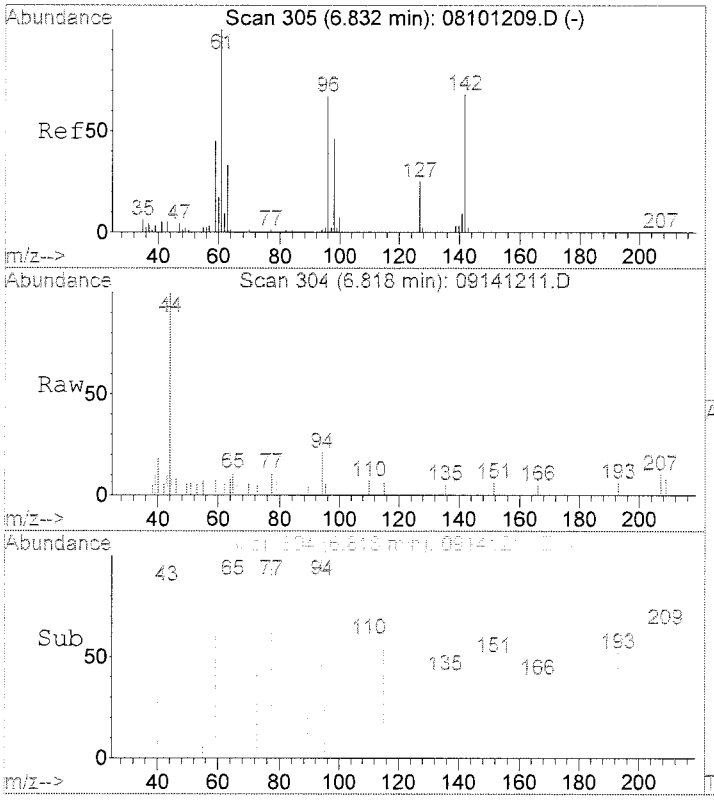


#2
Ethanol
Concen: 1904.41 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 45 Resp: 61233

Ion	Ratio	Lower	Upper
45	100		
46	27.1	39.9	79.9#

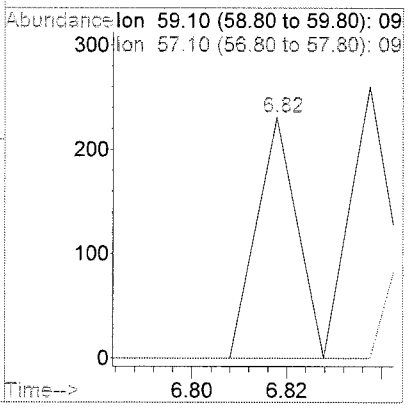




#3
tert-Butanol (TBA)
Concen: 0.39 ug/L
RT: 6.82 min Scan# 304
Delta R.T. -0.01 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

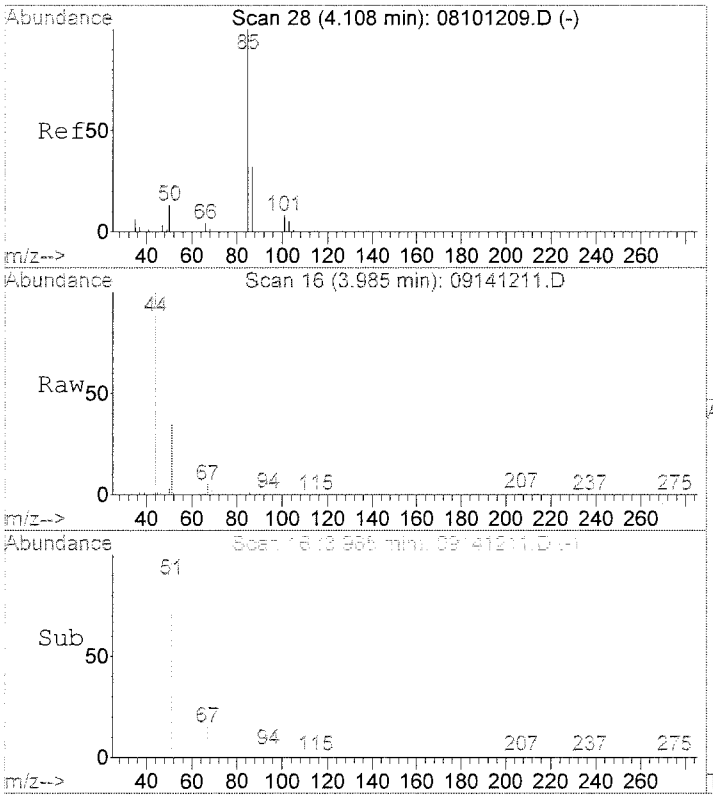
Tgt Ion: 59 Resp: 136

Ion	Ratio	Lower	Upper
59	100		
57	345.6	6.4	9.6#



9

MM

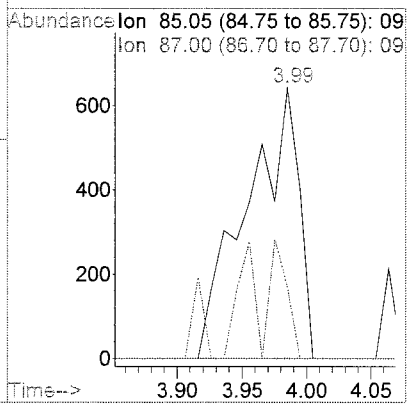


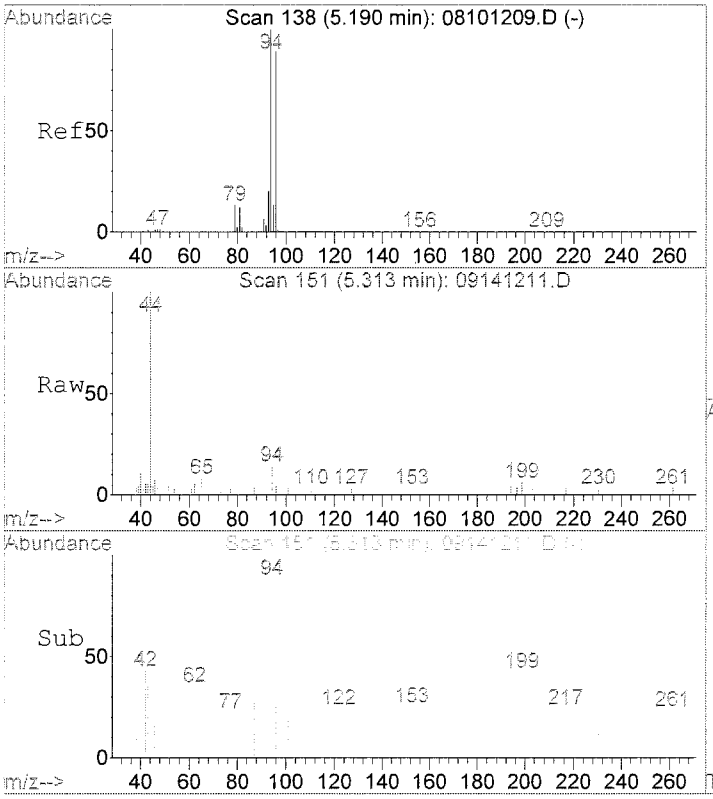
#5
Dichlorodifluoromethane
Concen: 0.19 ug/L
RT: 3.99 min Scan# 16
Delta R.T. -0.12 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 85 Resp: 1797

Ion	Ratio	Lower	Upper
85	100		
87	14.9	11.9	51.9

NSM



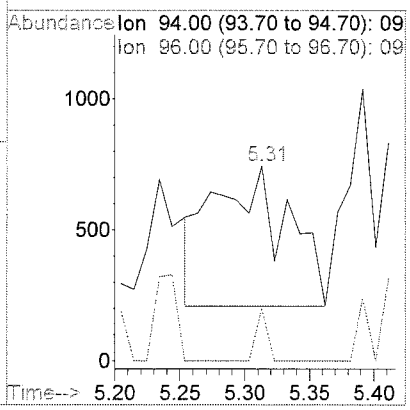


#9
Bromomethane
Concen: 0.41 ug/L
RT: 5.31 min Scan# 151
Delta R.T. 0.12 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

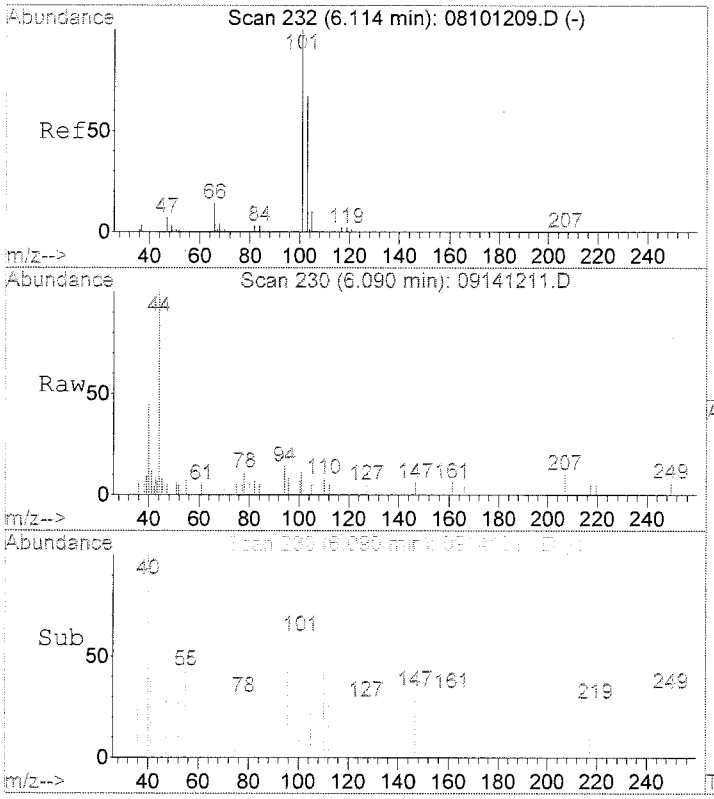
Tgt Ion: 94 Resp: 2150

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

5



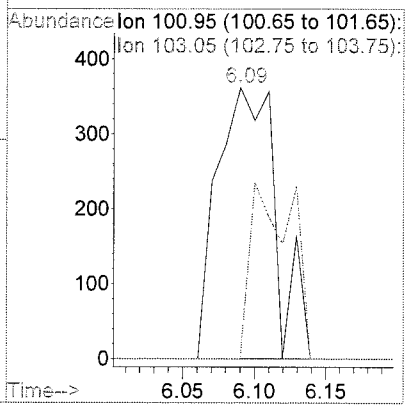
MM

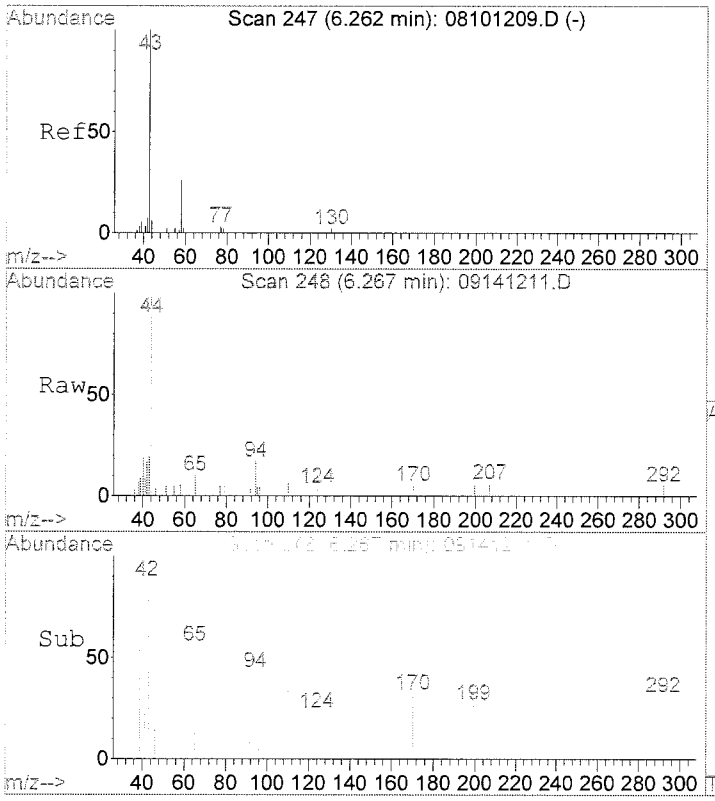


#11
Trichlorofluoromethane
Concen: 0.13 ug/L
RT: 6.09 min Scan# 230
Delta R.T. -0.02 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion:101 Resp: 1018

Ion	Ratio	Lower	Upper
101	100		
103	46.8	51.8	77.6#

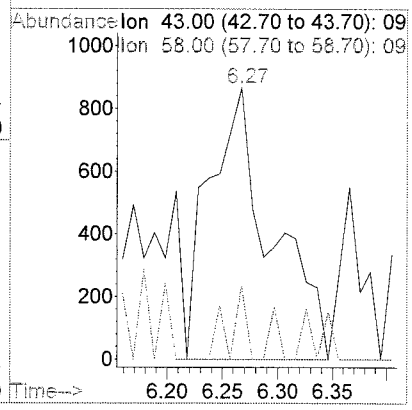




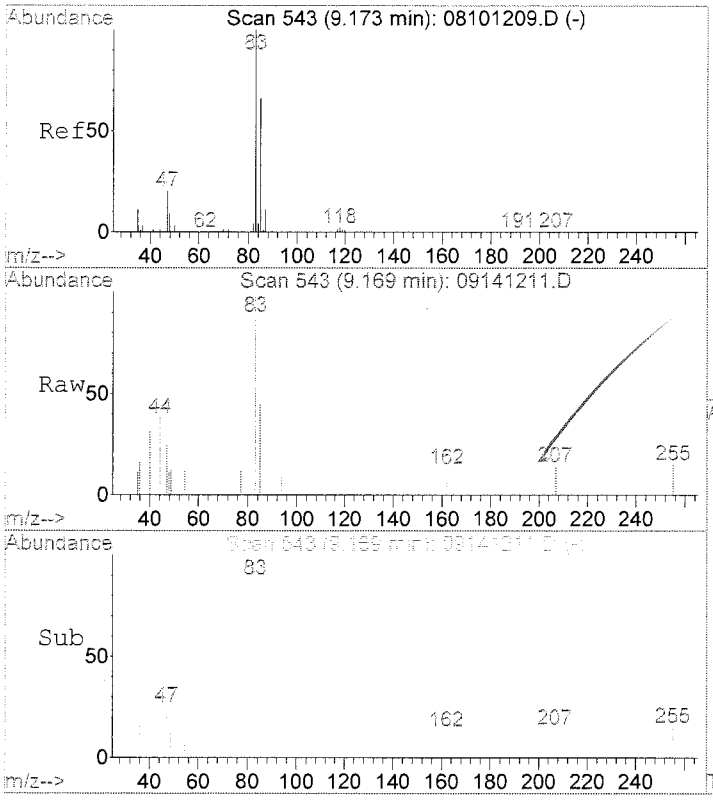
#12
Acetone
Concen: 3.07 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 43 Resp: 3380

Ion	Ratio	Lower	Upper
43	100		
58	4.1	25.9	38.9#



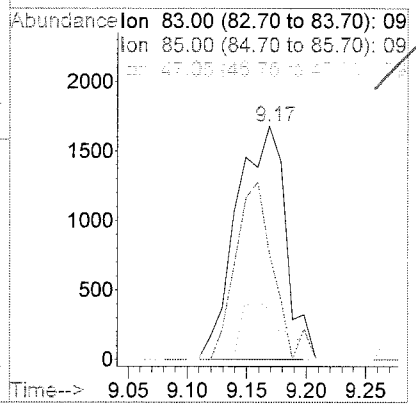
MM

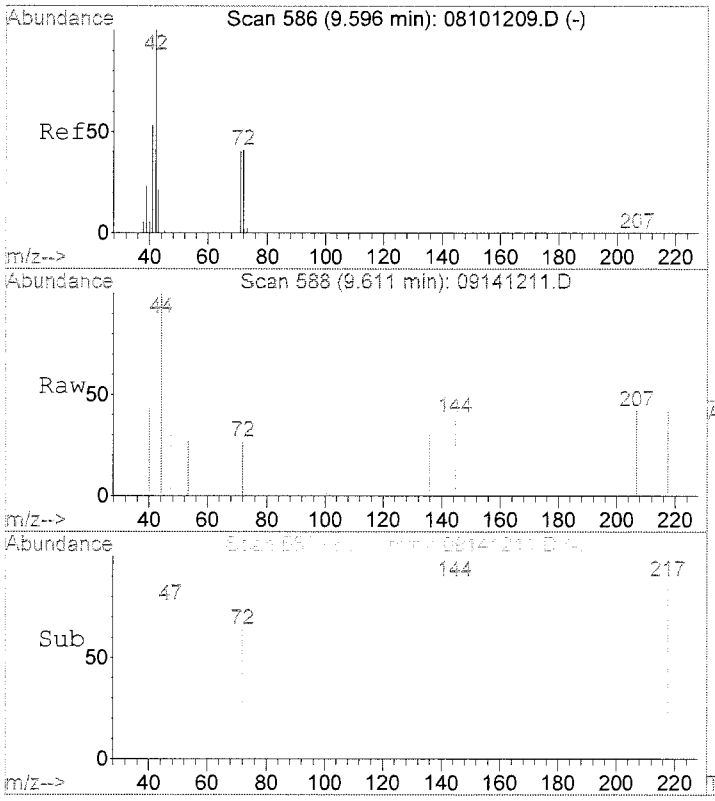


#27
Chloroform
Concen: 0.58 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 83 Resp: 4813

Ion	Ratio	Lower	Upper
83	100		
85	58.1	51.6	77.4
47	23.8	18.9	28.3

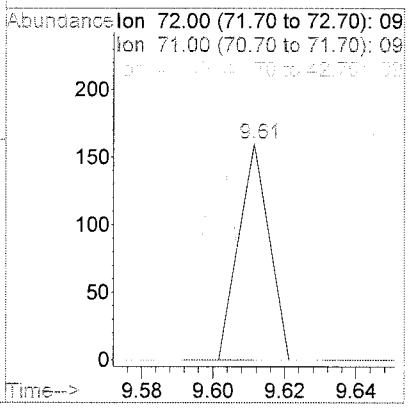


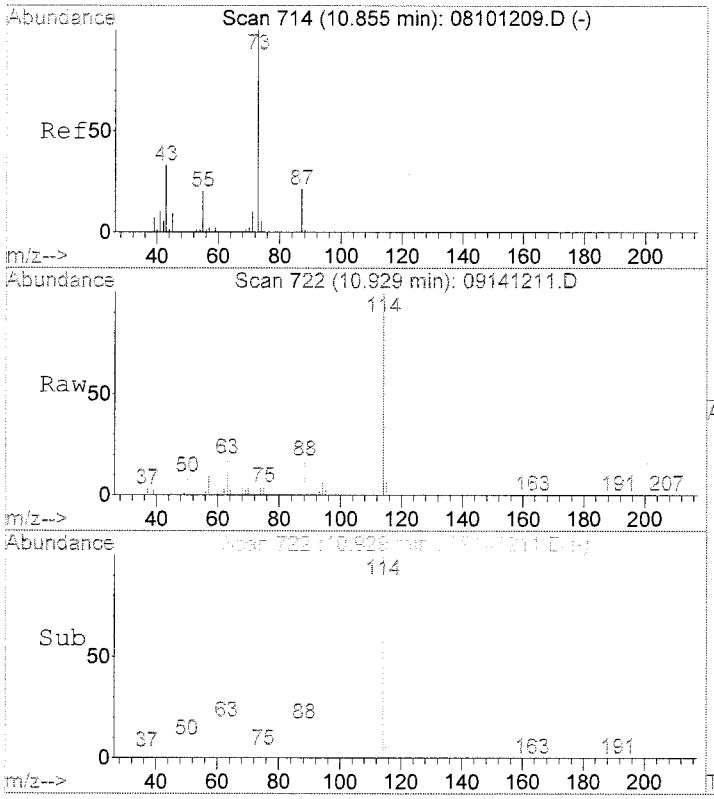


#31
Tetrahydrofuran
Concen: 0.27 ug/L
RT: 9.61 min Scan# 588
Delta R.T. 0.01 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 72 Resp: 94

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	108.5	217.1	325.7#

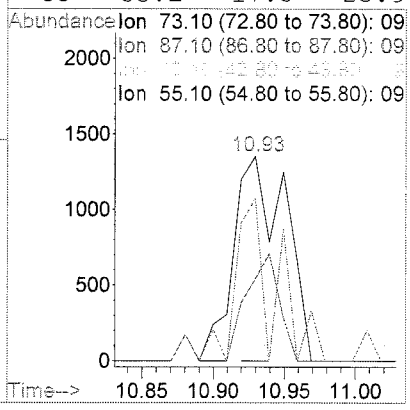


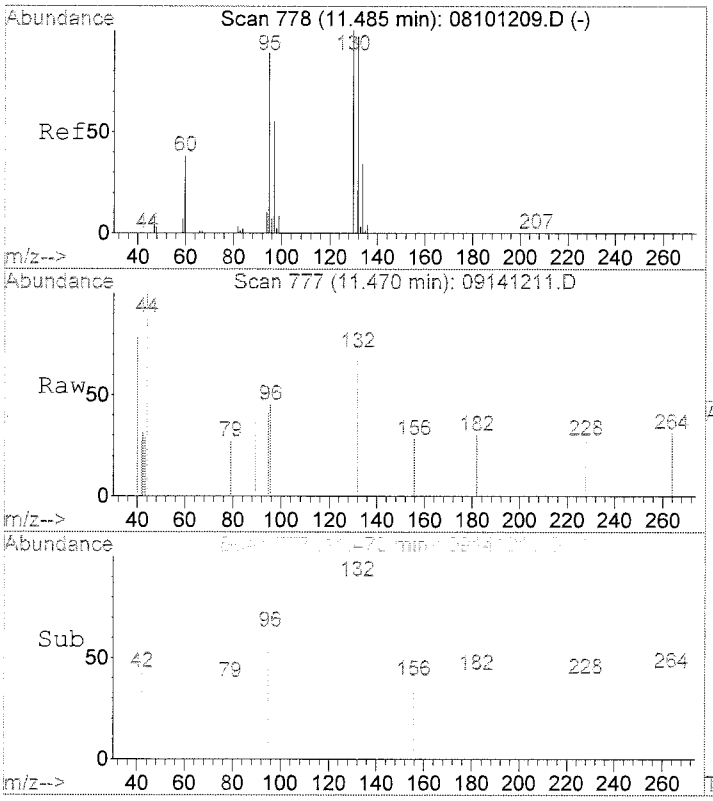


#34
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 10.93 min Scan# 722
Delta R.T. 0.07 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 73 Resp: 3416

Ion	Ratio	Lower	Upper
73	100		
87	58.6	16.4	24.6#
43	0.0	27.0	40.4#
55	33.2	17.3	25.9#

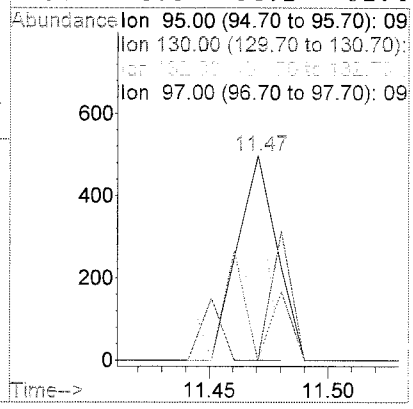




#41
Trichloroethene
Concen: 0.11 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

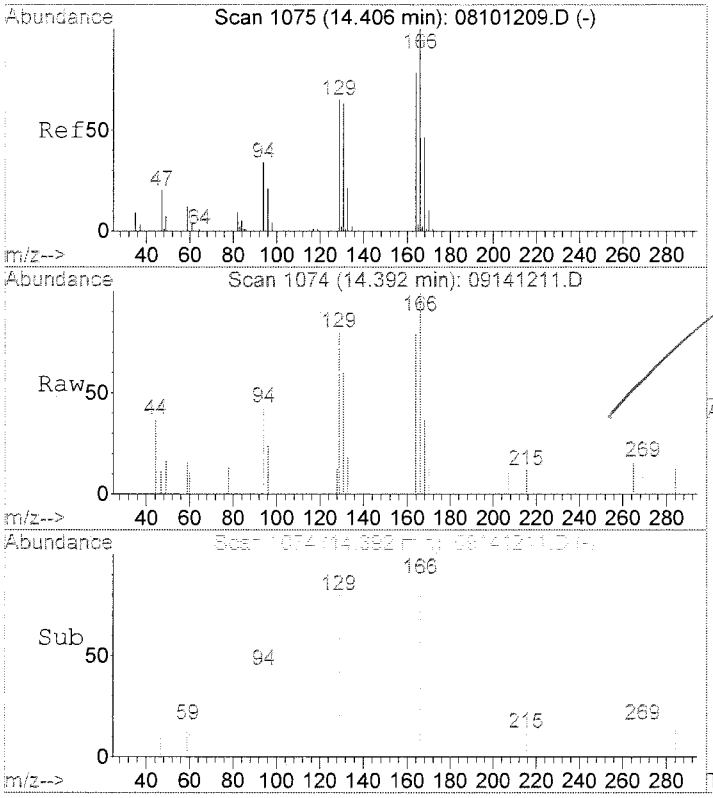
Tgt Ion: 95 Resp: 574

Ion	Ratio	Lower	Upper
95	100		
130	44.8	87.3	130.9#
132	42.3	84.2	126.4#
97	15.5	54.2	81.4#



5

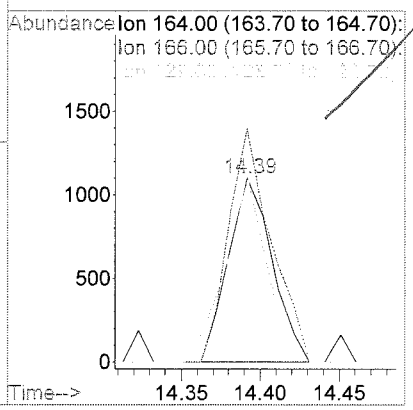
NM

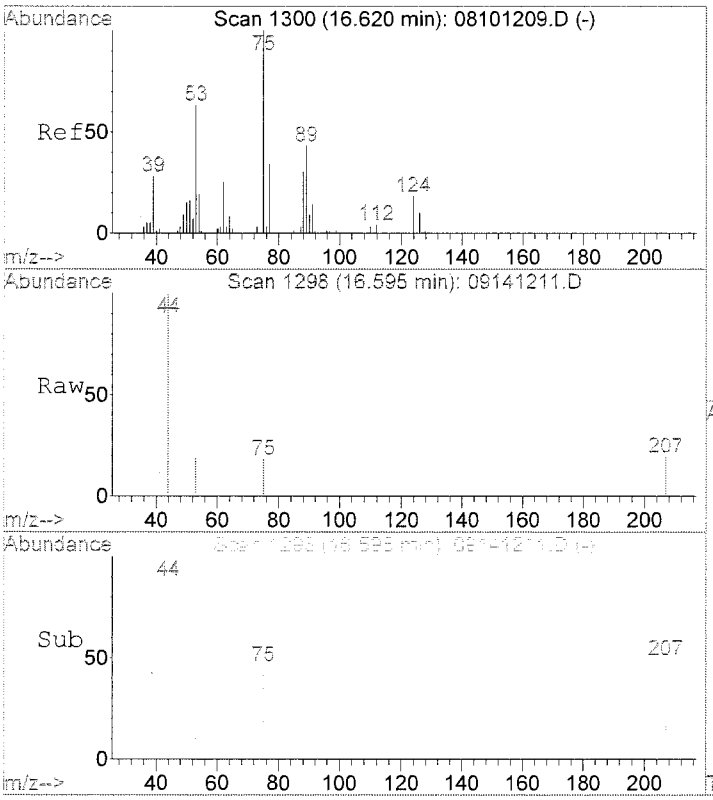


#55
Tetrachloroethene
Concen: 0.44 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion:164 Resp: 2120

Ion	Ratio	Lower	Upper
164	100		
166	123.7	102.1	153.1
129	101.5	66.5	99.7#

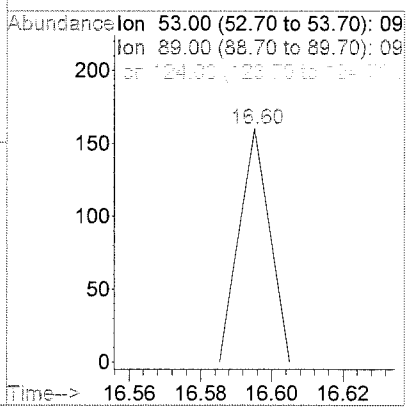




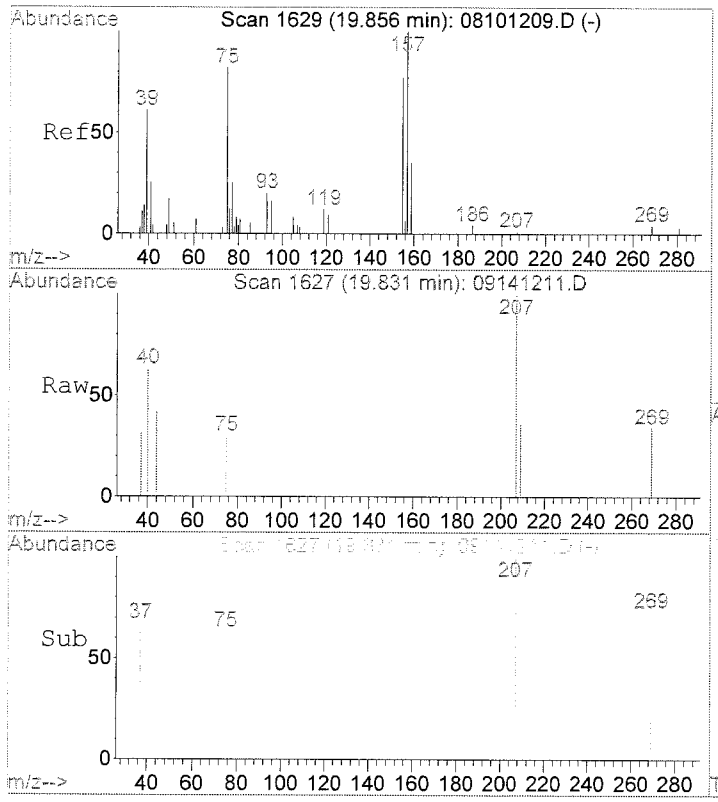
#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.60 min Scan# 1298
Delta R.T. -0.02 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 53 Resp: 94

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



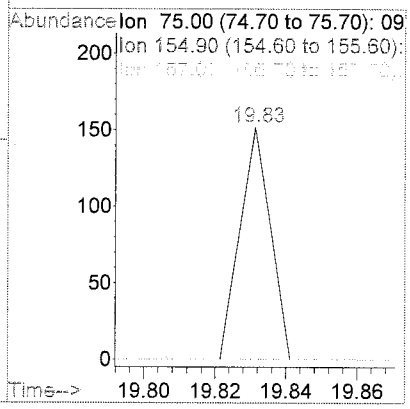
MM

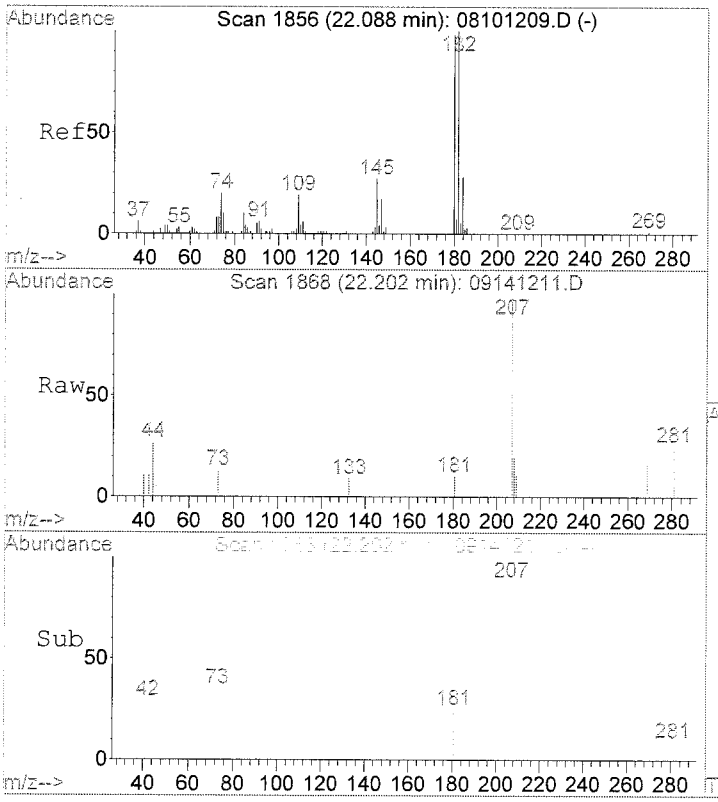


#82
1,2-Dibromo-3-chloropropane
Concen: 0.50 ug/L
RT: 19.83 min Scan# 1627
Delta R.T. -0.02 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion: 75 Resp: 90

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

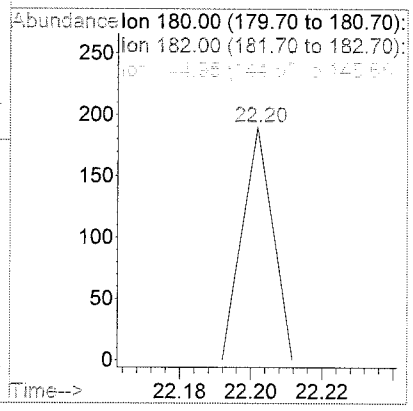




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.20 min Scan# 1868
Delta R.T. 0.11 min
Lab File: 09141211.D
Acq: 14 Sep 2012 11:50 am

Tgt Ion:180 Resp: 112

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



9

MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141212.D Vial: 12
Acq On : 14 Sep 2012 12:23 pm Operator: MNM
Sample : PVI0635-07 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

✓ 9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	61141	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	275808	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	388868	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	280127	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	109553	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	128522	26.64 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 106.56%	
48) Toluene-d8	13.30	98	380848	24.80 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 99.20%	
62) 4-Bromofluorobenzene	16.93	95	111282	25.71 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 102.84%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	54852	1664.05 ug/L #	71
3) tert-Butanol (TBA)	6.83	59	481	1.34 ug/L #	60
9) Bromomethane	5.19	94	1203	0.22 ug/L #	31
12) Acetone	6.27	43	4658	4.01 ug/L #	55
23) 2-Butanone (MEK)	8.56	72	156	0.39 ug/L #	1
25) cis-1,2-Dichloroethene	8.88	96	750	0.13 ug/L #	84
27) Chloroform	9.14	83	2948	0.34 ug/L #	97
32) 1,2-Dichloroethane	9.80	62	1138	0.27 ug/L #	44
41) Trichloroethene	11.46	95	835	0.15 ug/L #	18
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	421	0.15 ug/L #	37
51) 1,3-Dichloropropane	13.31	76	3492	0.70 ug/L #	67
66) 1,2,3-Trichloropropane	16.38	110	110	0.16 ug/L #	22
67) trans-1,4-Dichloro-2-buten	16.52	53	101	1.16 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.75	75	239	0.96 ug/L #	1
85) Hexachlorobutadiene	21.74	225	122	Below Cal #	37
86) 1,2,3-Trichlorobenzene	22.12	180	89	Below Cal #	71

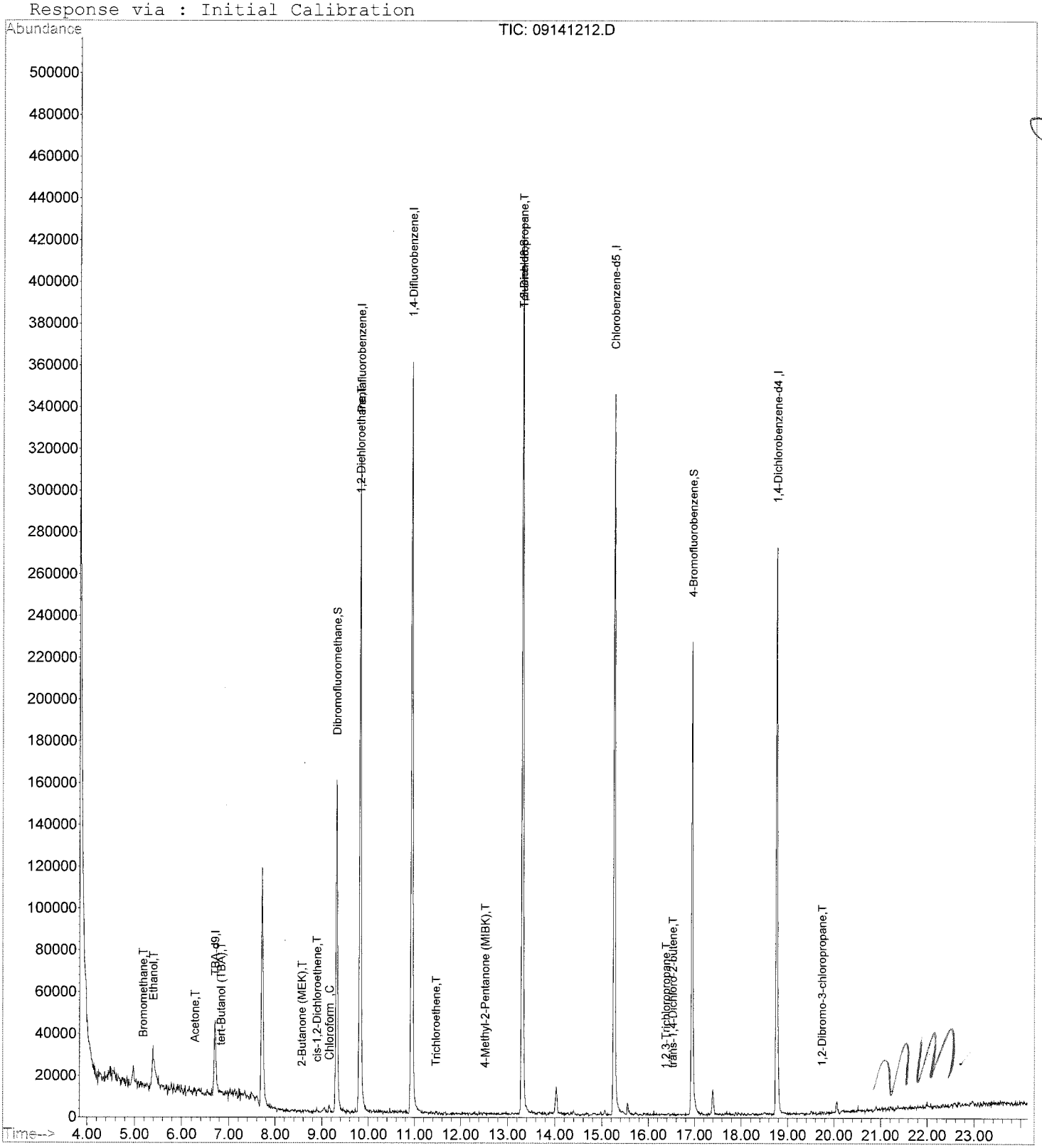
MM 9/17/12

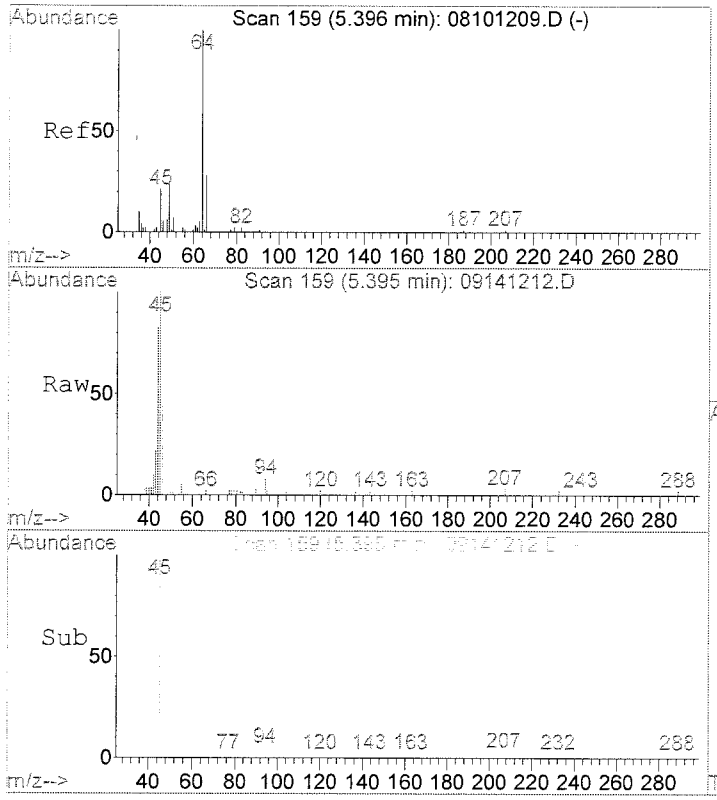
(#) = qualifier out of range (m) = manual integration
09141212.D 081012.M Fri Sep 14 14:37:43 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141212.D Vial: 12
Acq On : 14 Sep 2012 12:23 pm Operator: MNM
Sample : PVI0635-07 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

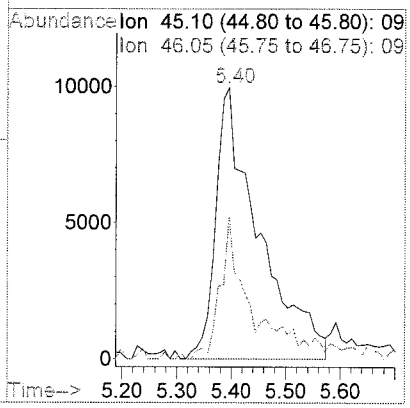


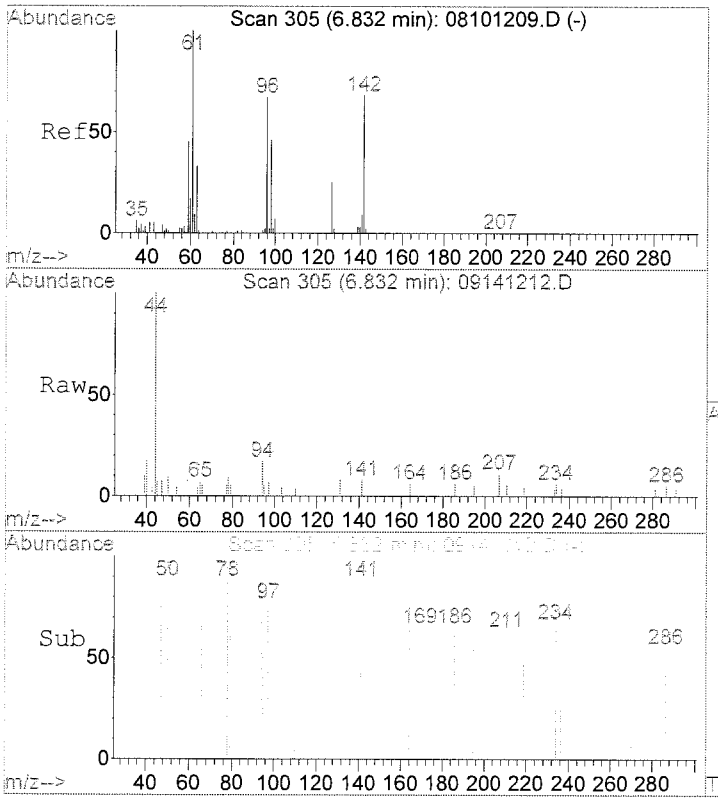


#2
Ethanol
Concen: 1664.05 ug/L
RT: 5.40 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 45 Resp: 54852

Ion	Ratio	Lower	Upper
45	100		
46	38.1	39.9	79.9#

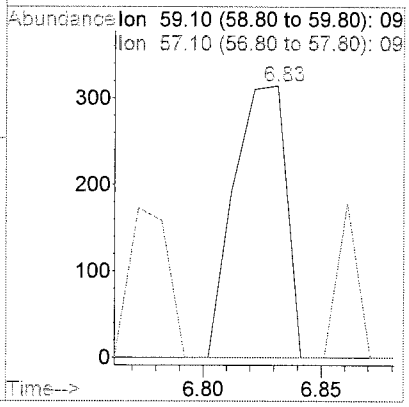




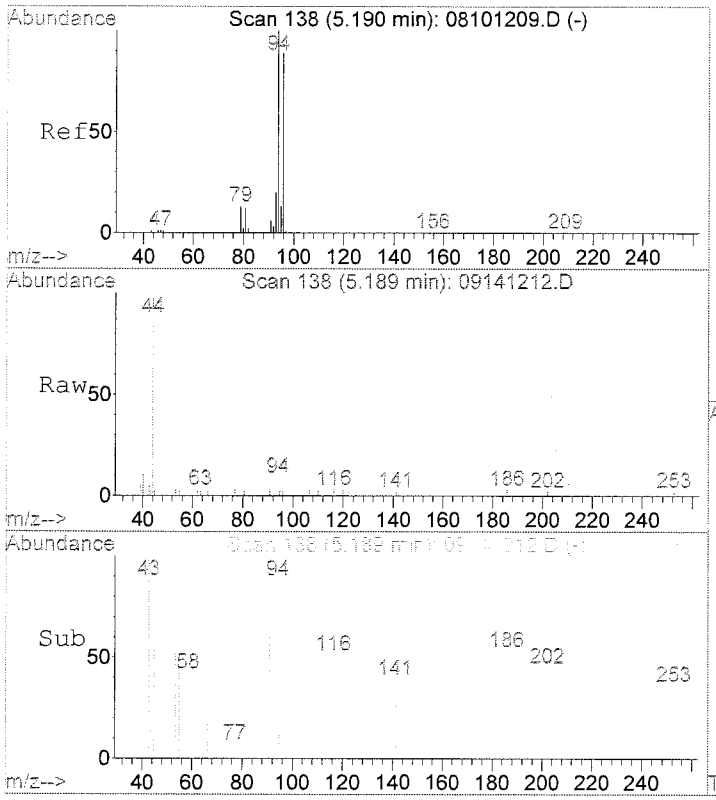
#3
tert-Butanol (TBA)
Concen: 1.34 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 59 Resp: 481

Ion	Ratio	Lower	Upper
59	100		
57	22.0	6.4	9.6#



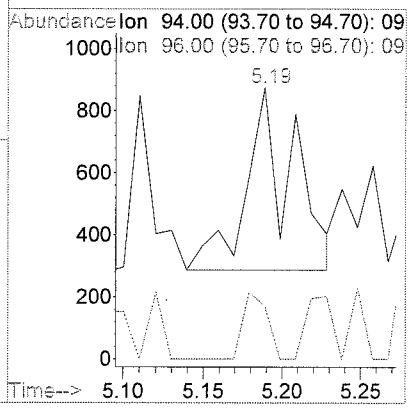
MM

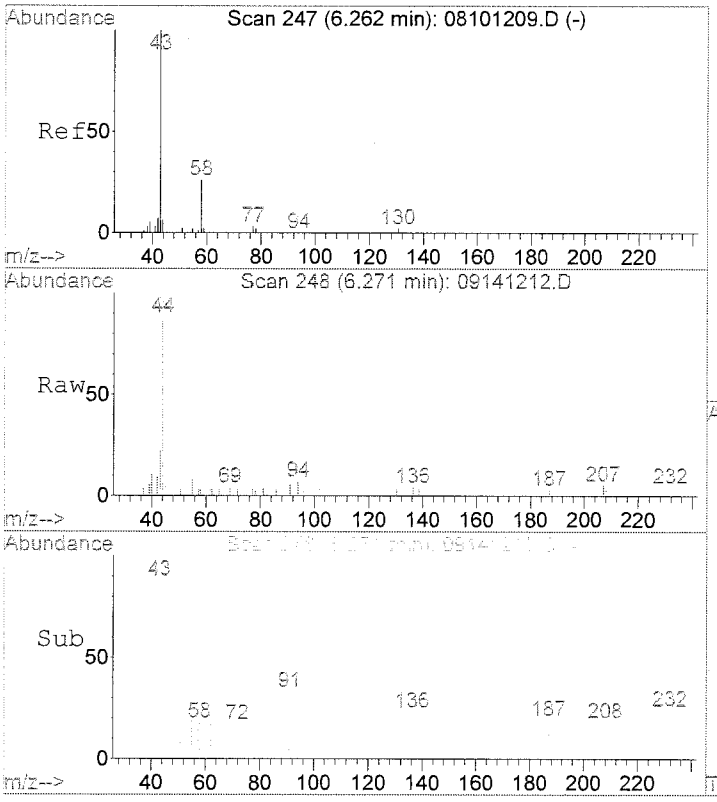


#9
Bromomethane
Concen: 0.22 ug/L
RT: 5.19 min Scan# 138
Delta R.T. -0.00 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 94 Resp: 1203

Ion	Ratio	Lower	Upper
94	100		
96	28.1	75.8	113.6#

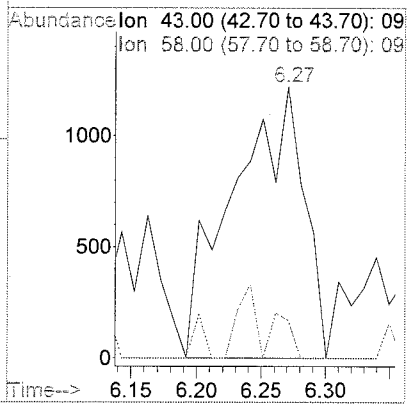


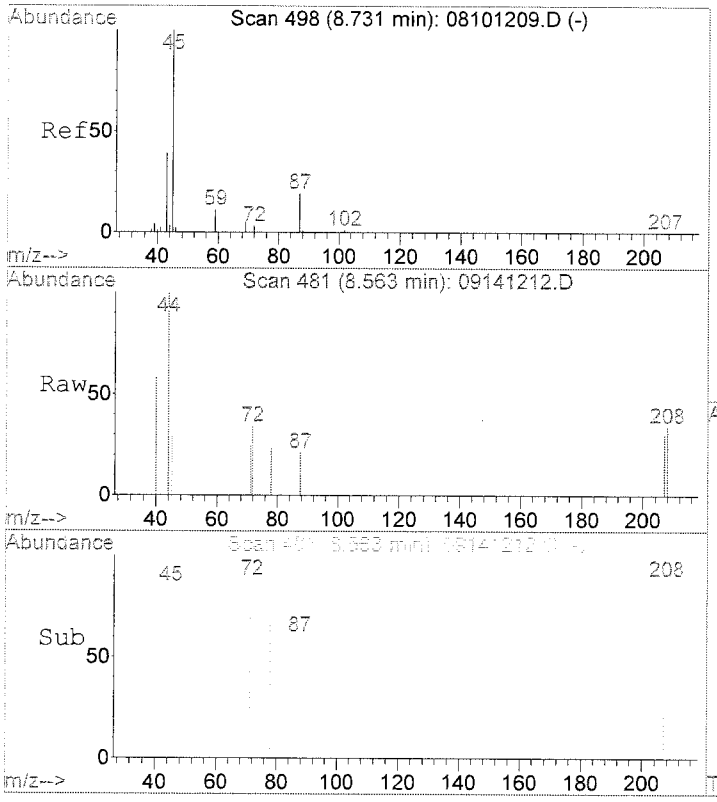


#12
Acetone
Concen: 4.01 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 43 Resp: 4658

Ion	Ratio	Lower	Upper
43	100		
58	7.0	25.9	38.9#

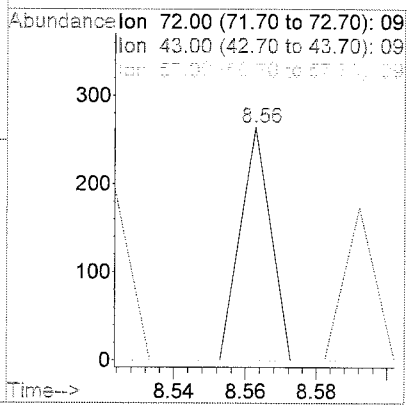


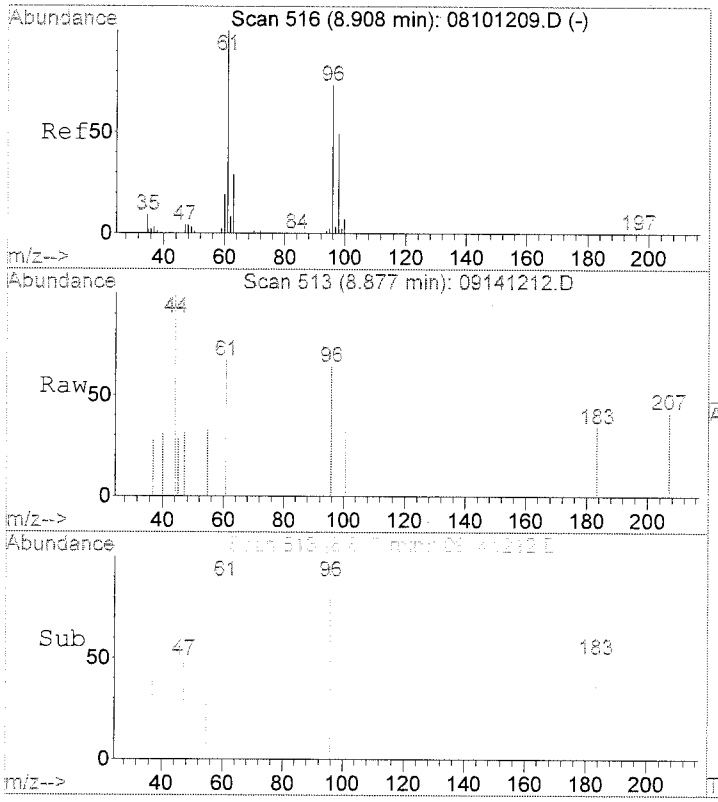


#23
2-Butanone (MEK)
Concen: 0.39 ug/L
RT: 8.56 min Scan# 481
Delta R.T. -0.17 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 72 Resp: 156

Ion	Ratio	Lower	Upper
72	100		
43	205.8	1366.5	2049.7#
57	0.0	0.0	0.0

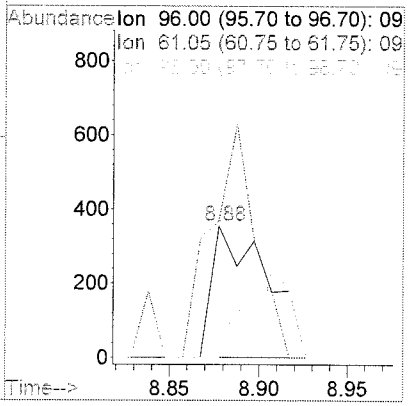


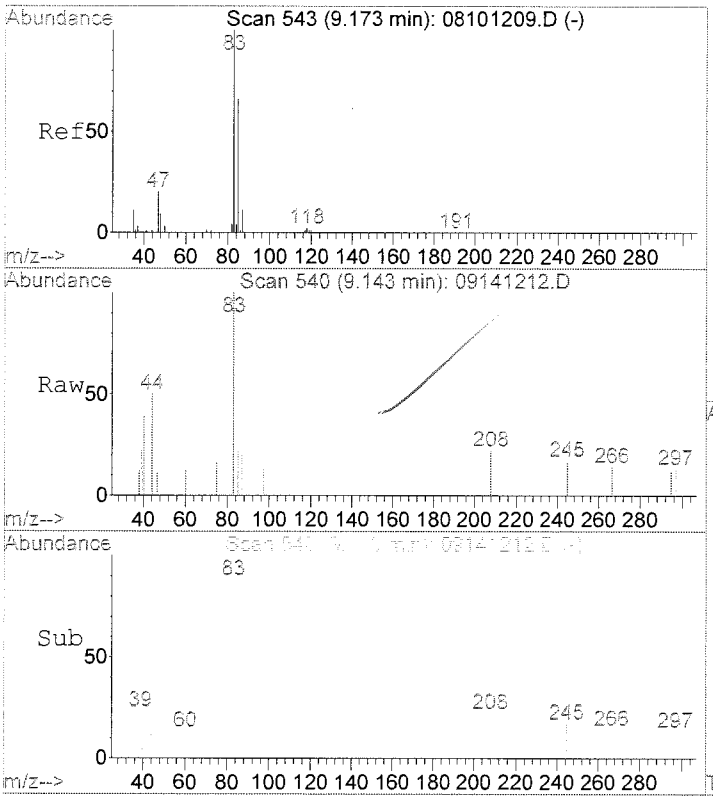


#25
cis-1,2-Dichloroethene
Concen: 0.13 ug/L
RT: 8.88 min Scan# 513
Delta R.T. -0.03 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 96 Resp: 750

Ion	Ratio	Lower	Upper
96	100		
61	143.2	103.2	154.8
98	45.6	51.4	77.2#

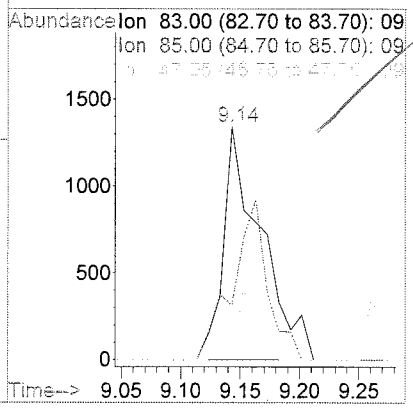


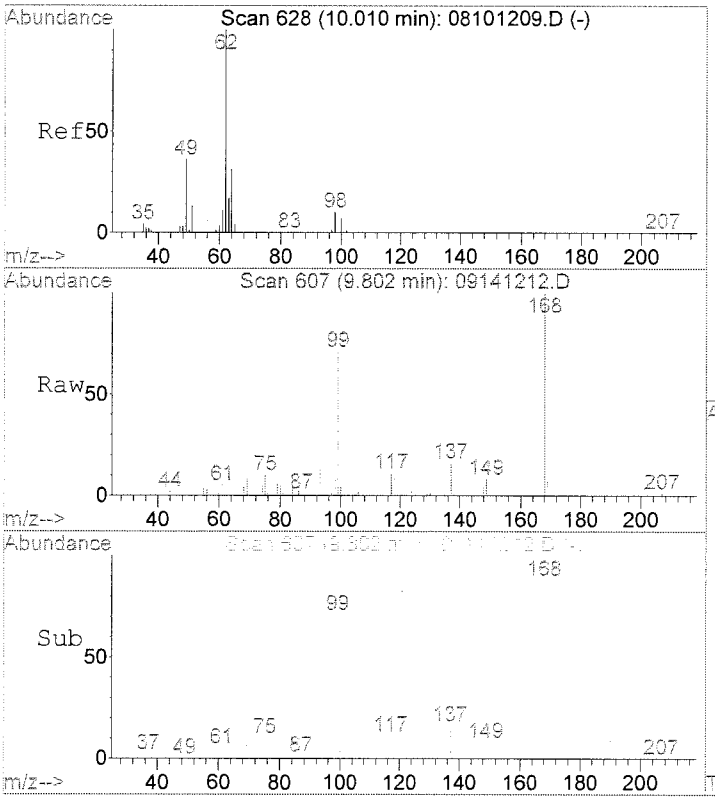


#27
Chloroform
Concen: 0.34 ug/L
RT: 9.14 min Scan# 540
Delta R.T. -0.03 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 83 Resp: 2948

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.6	77.4
47	18.8	18.9	28.3#

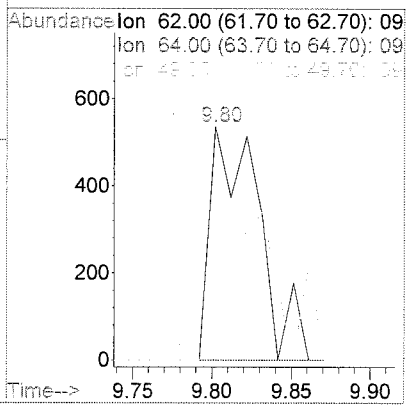




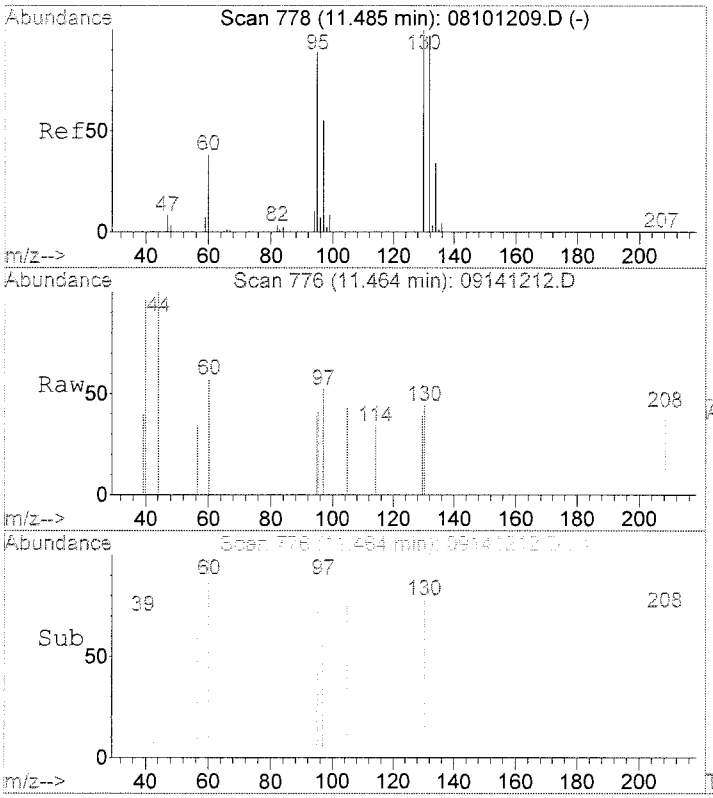
#32
1,2-Dichloroethane
Concen: 0.27 ug/L
RT: 9.80 min Scan# 607
Delta R.T. -0.21 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 62 Resp: 1138

Ion	Ratio	Lower	Upper
62	100		
64	0.0	26.4	39.6#
49	66.5	28.0	42.0#



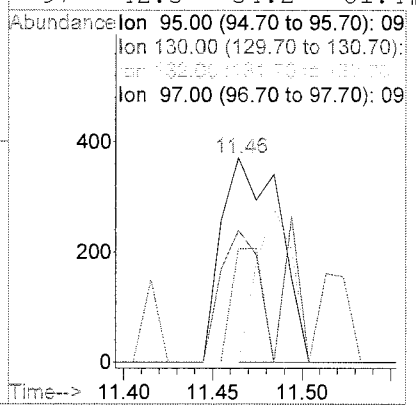
MM

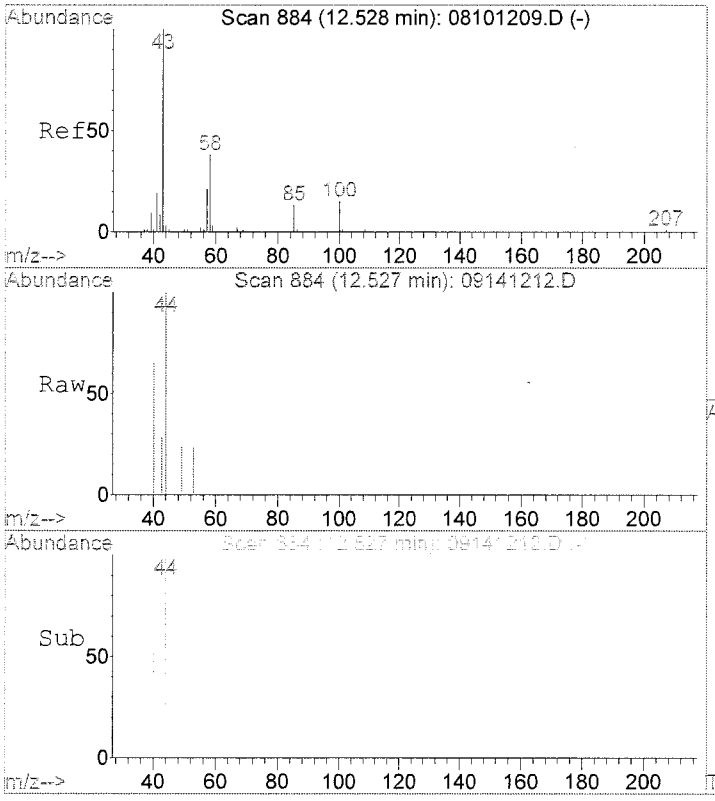


#41
Trichloroethene
Concen: 0.15 ug/L
RT: 11.46 min Scan# 776
Delta R.T. -0.02 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 95 Resp: 835

Ion	Ratio	Lower	Upper
95	100		
130	10.7	87.3	130.9#
132	0.0	84.2	126.4#
97	42.5	54.2	81.4#

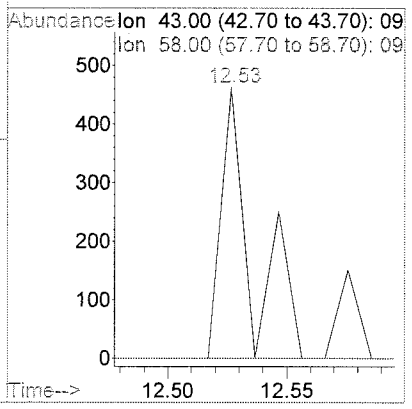




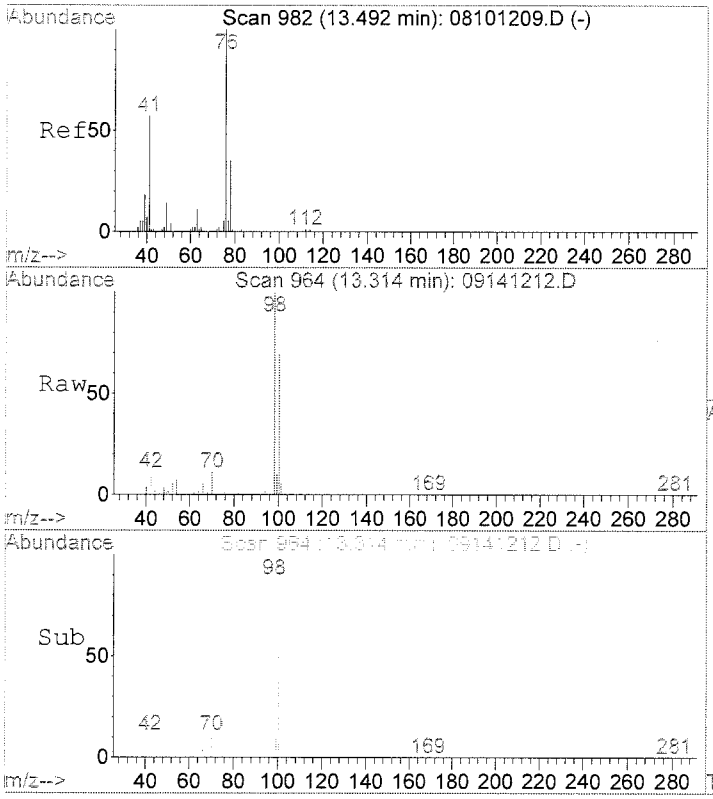
#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.15 ug/L
RT: 12.53 min Scan# 884
Delta R.T. -0.00 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 43 Resp: 421

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#



mm

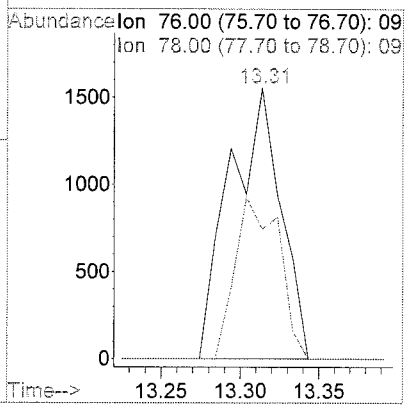


#51
1,3-Dichloropropane
Concen: 0.70 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

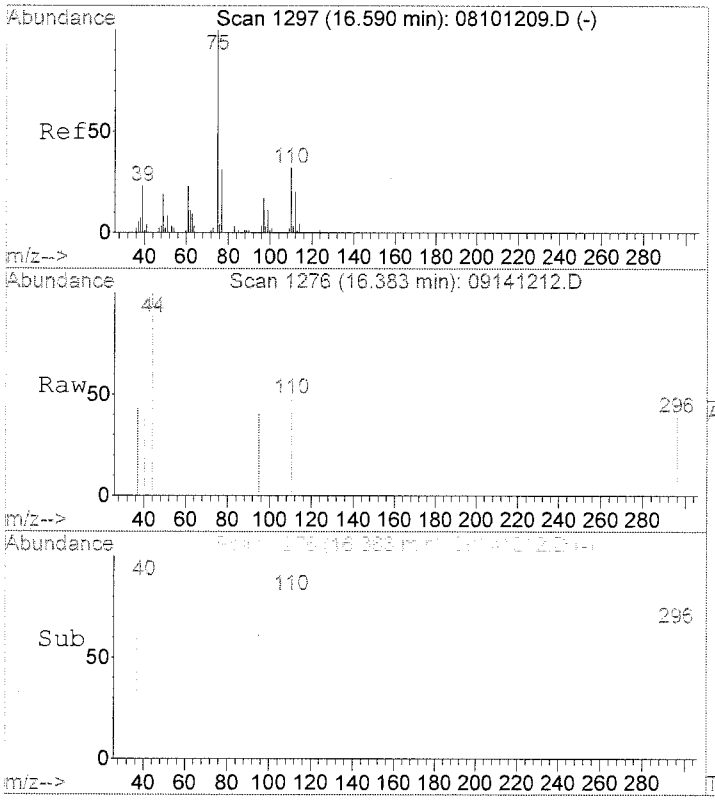
Tgt Ion: 76 Resp: 3492

Ion	Ratio	Lower	Upper
76	100		
78	51.4	26.1	39.1#

WLT



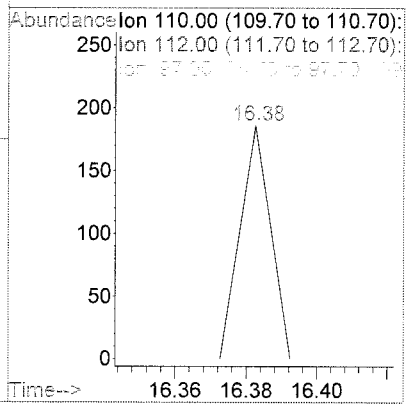
J



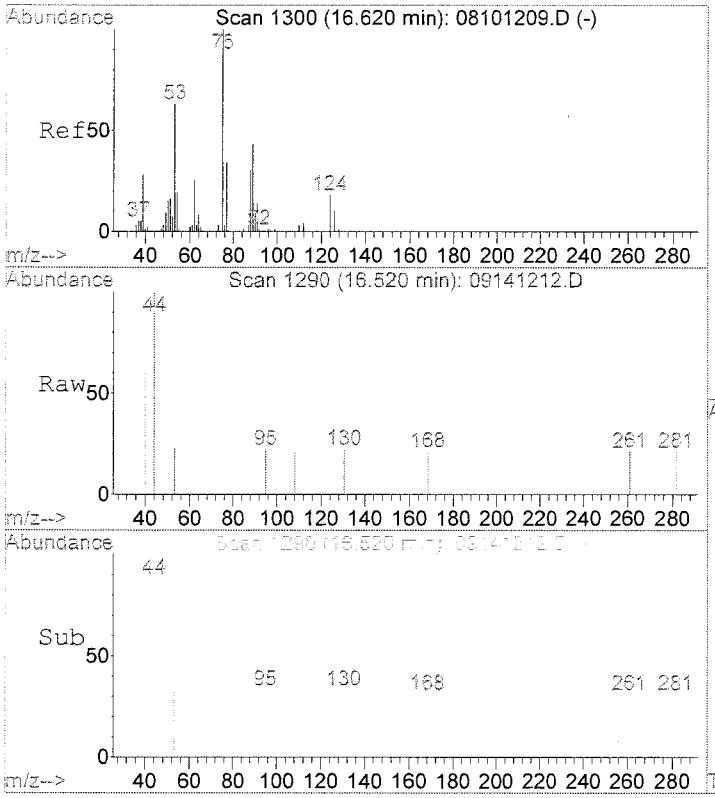
#66
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 16.38 min Scan# 1276
Delta R.T. -0.21 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion:110 Resp: 110

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	105.5	42.2	63.2#



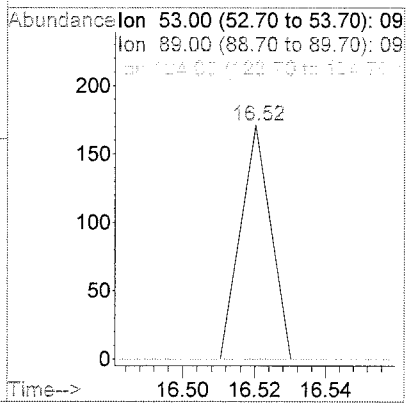
MM

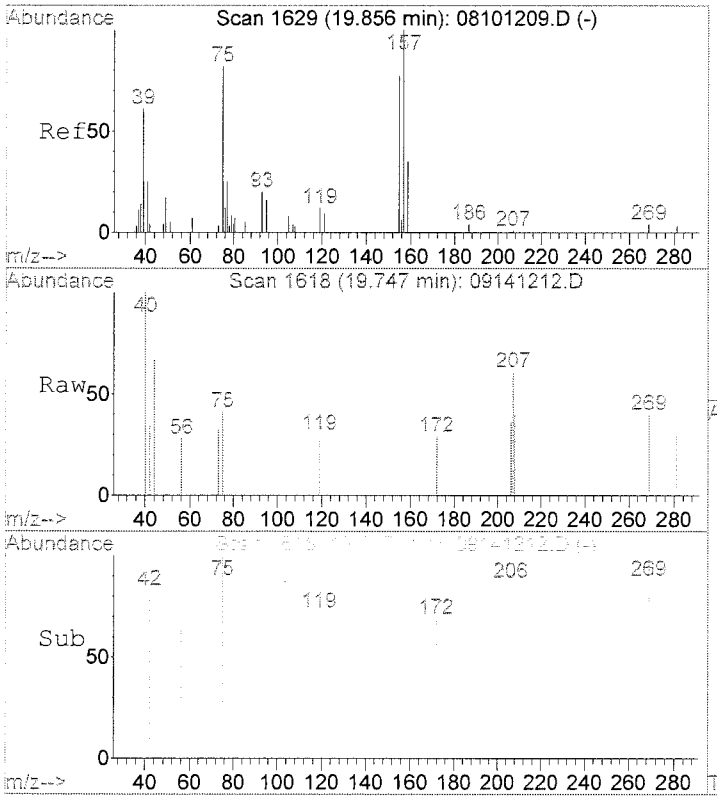


#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.52 min Scan# 1290
Delta R.T. -0.10 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 53 Resp: 101

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

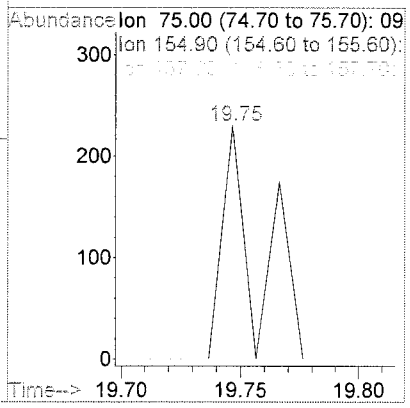


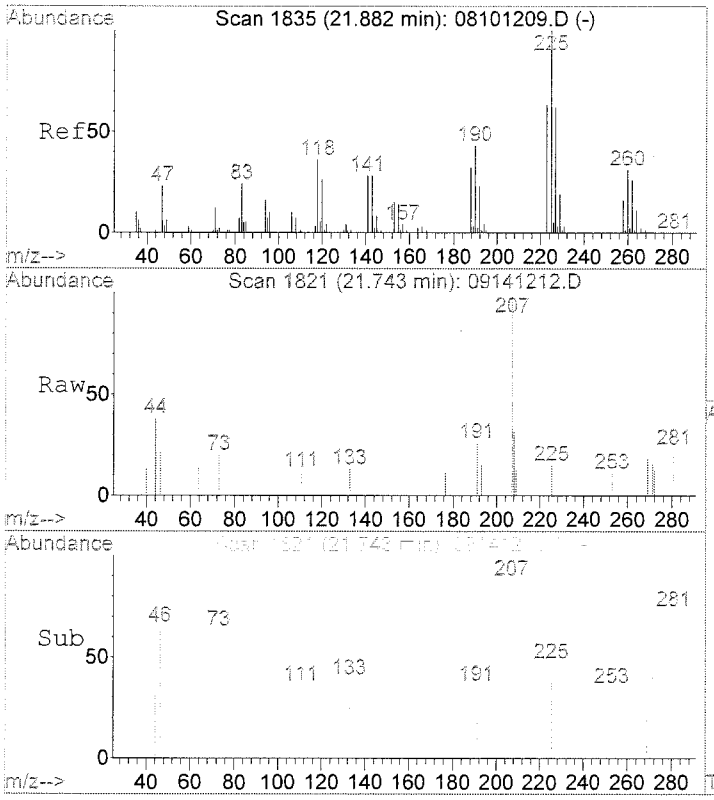


#82
1,2-Dibromo-3-chloropropane
Concen: 0.96 ug/L
RT: 19.75 min Scan# 1618
Delta R.T. -0.11 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion: 75 Resp: 239

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

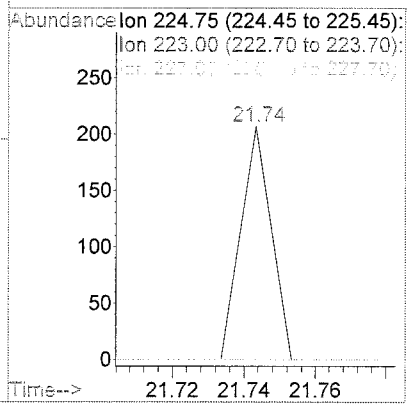


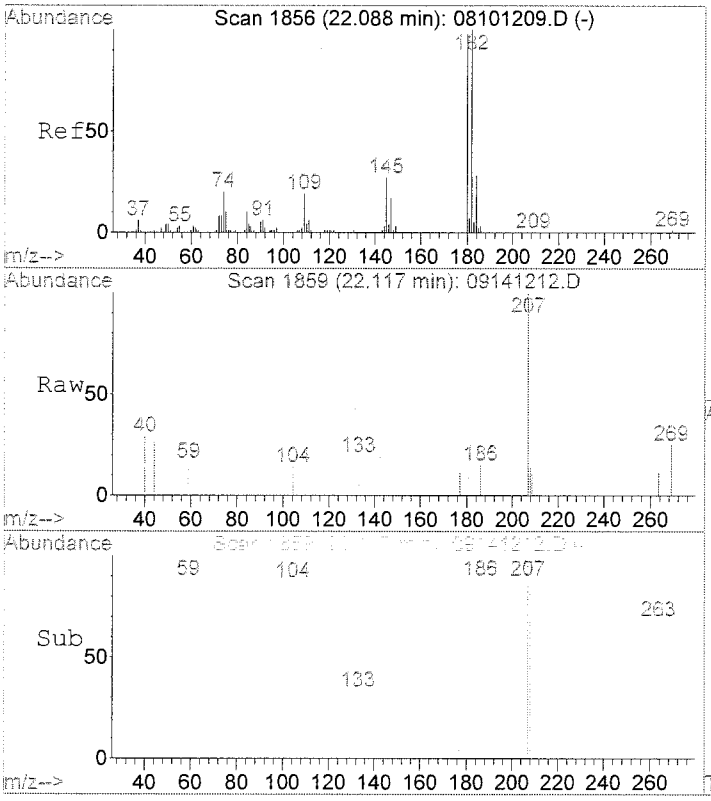


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.74 min Scan# 1821
Delta R.T. -0.14 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion:225 Resp: 122

Ion	Ratio	Lower	Upper
225	100		
223	93.4	47.8	71.8#
227	0.0	50.6	75.8#

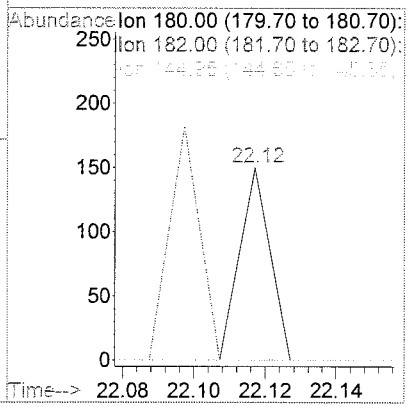




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.12 min Scan# 1859
Delta R.T. 0.03 min
Lab File: 09141212.D
Acq: 14 Sep 2012 12:23 pm

Tgt Ion:180 Resp: 89

Ion	Ratio	Lower	Upper
180	100		
182	120.2	78.9	118.3#
145	0.0	23.2	34.8#



9

MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141213.D Vial: 13
Acq On : 14 Sep 2012 12:56 pm Operator: MNM
Sample : PVI0635-08 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	60132	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	266581	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	359428	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.26	117	266760	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	99753	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	124463	26.70 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 106.80%	
48) Toluene-d8	13.31	98	346650	24.42 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 97.68%	
62) 4-Bromofluorobenzene	16.94	95	103171	25.03 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.12%	

Target Compounds					Qvalue
2) Ethanol	5.53	45	4379	135.08 ug/L	74
3) tert-Butanol (TBA)	6.80	59	113	0.32 ug/L #	1
9) Bromomethane	5.30	94	1772	0.33 ug/L #	11
12) Acetone	6.28	43	3758	3.35 ug/L #	48
23) 2-Butanone (MEK)	8.62	72	97	0.25 ug/L #	1
25) cis-1,2-Dichloroethene	8.90	96	1428	0.25 ug/L #	92 NSM
27) Chloroform	9.17	83	2044	0.24 ug/L #	85
31) Tetrahydrofuran	9.61	72	99	0.28 ug/L #	13
34) (TAME) tert-Amyl methyl et	10.93	73	4166	0.44 ug/L #	62
41) Trichloroethene	11.46	95	1143	0.22 ug/L #	82
55) Tetrachloroethene	14.39	164	522	0.11 ug/L #	37
66) 1,2,3-Trichloropropane	16.64	110	101	0.16 ug/L #	22
67) trans-1,4-Dichloro-2-buten	16.76	53	115	1.19 ug/L #	27

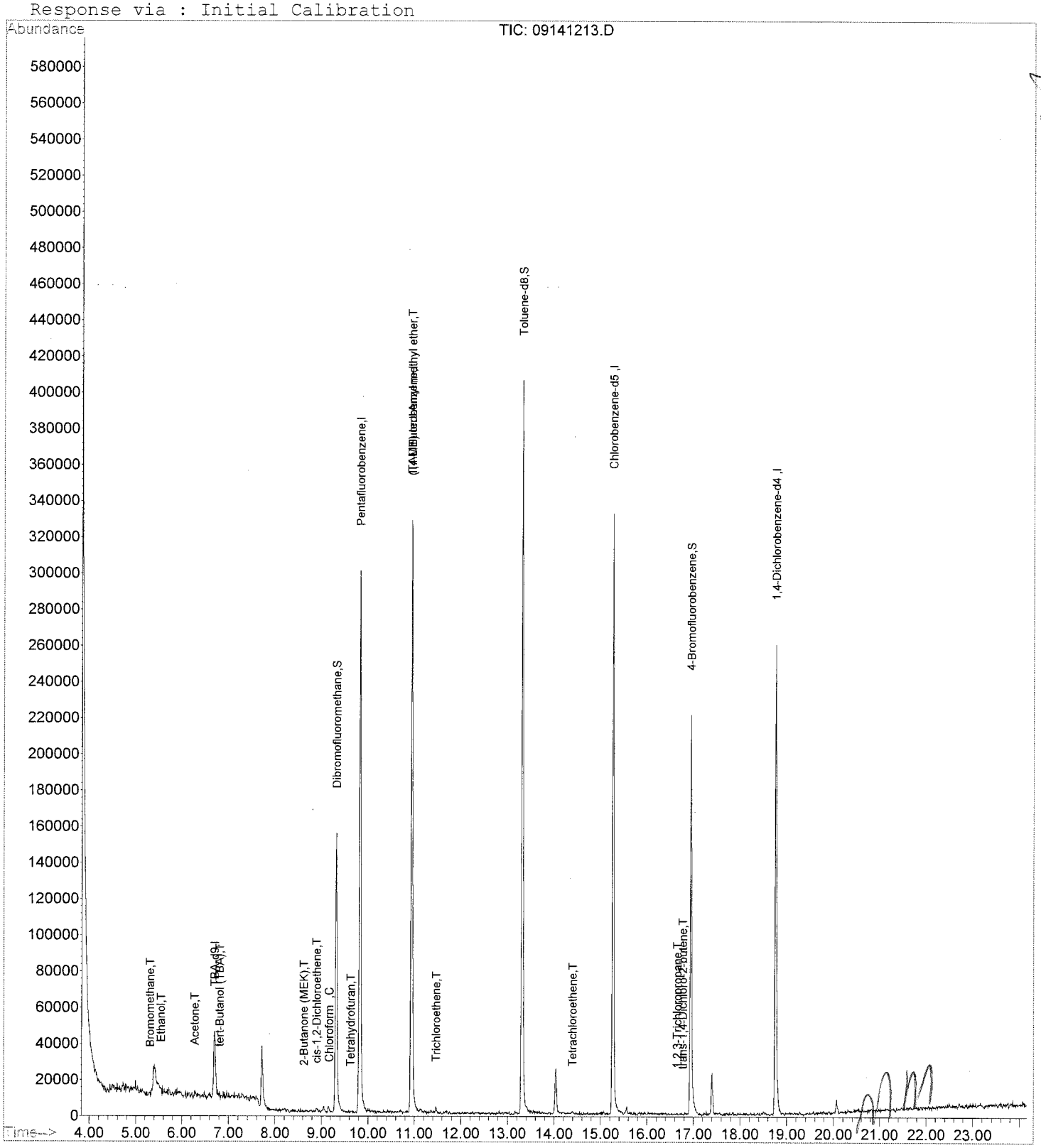
MM 9/17/12

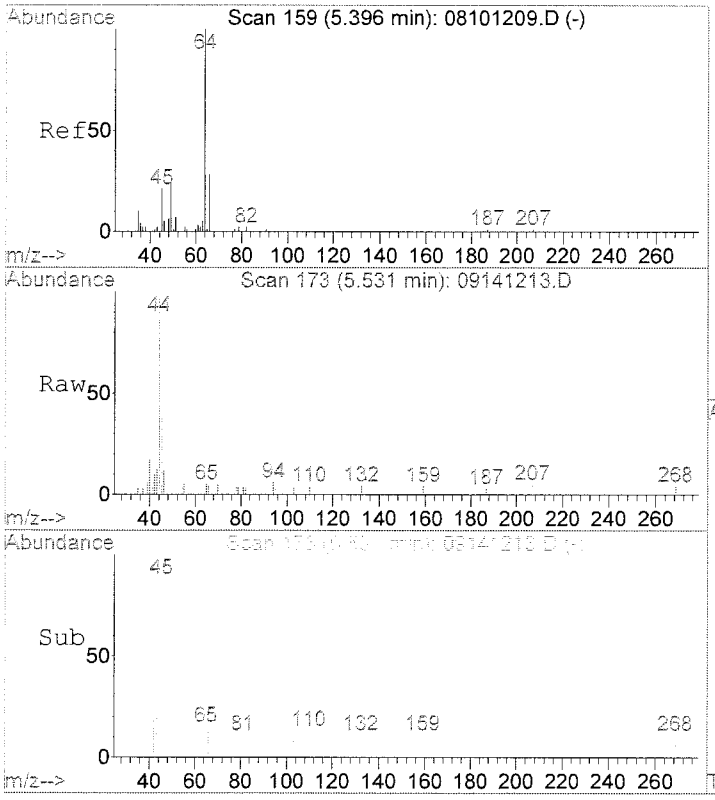
(#) = qualifier out of range (m) = manual integration
09141213.D 081012.M Fri Sep 14 14:38:07 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141213.D Vial: 13
Acq On : 14 Sep 2012 12:56 pm Operator: MNM
Sample : PVI0635-08 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:37 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

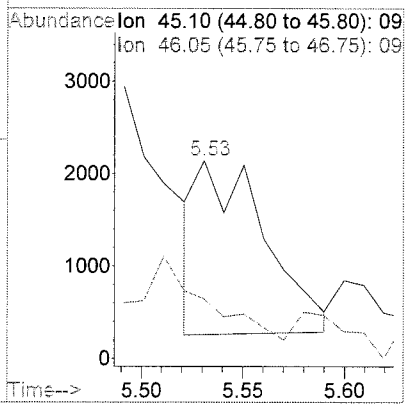


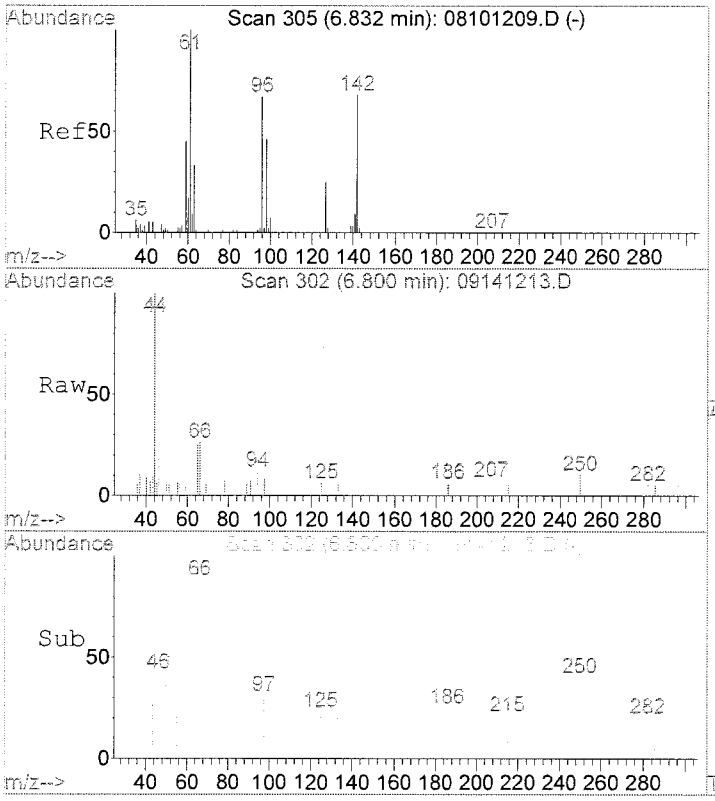


#2
Ethanol
Concen: 135.08 ug/L
RT: 5.53 min Scan# 173
Delta R.T. 0.13 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 45 Resp: 4379

Ion	Ratio	Lower	Upper
45	100		
46	40.1	39.9	79.9

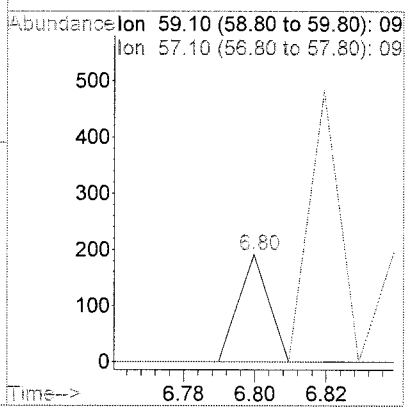


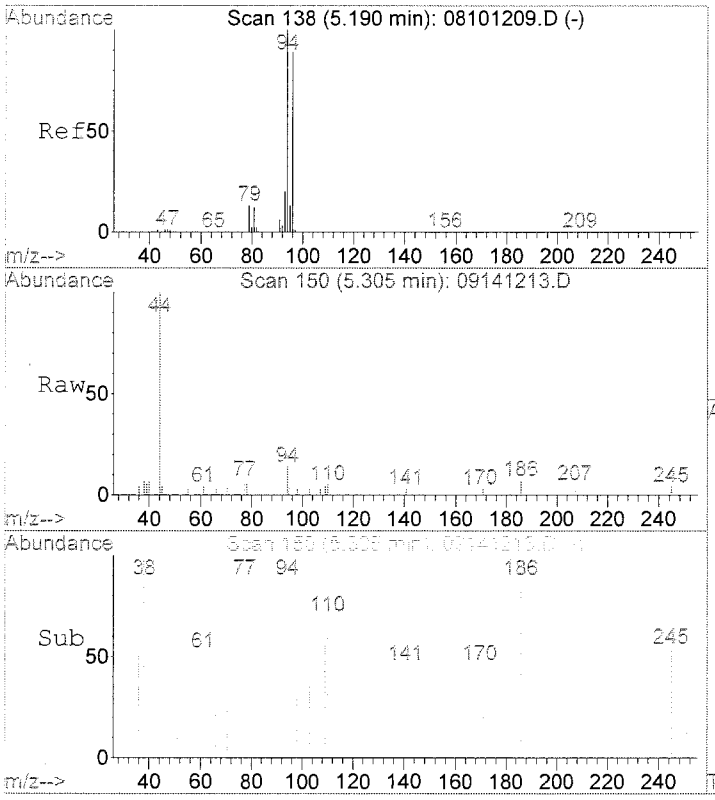


#3
tert-Butanol (TBA)
Concen: 0.32 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 59 Resp: 113

Ion	Ratio	Lower	Upper
59	100		
57	354.0	6.4	9.6#

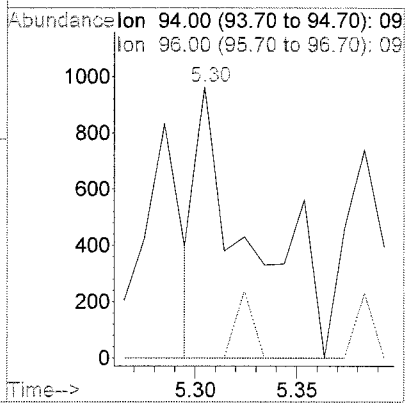


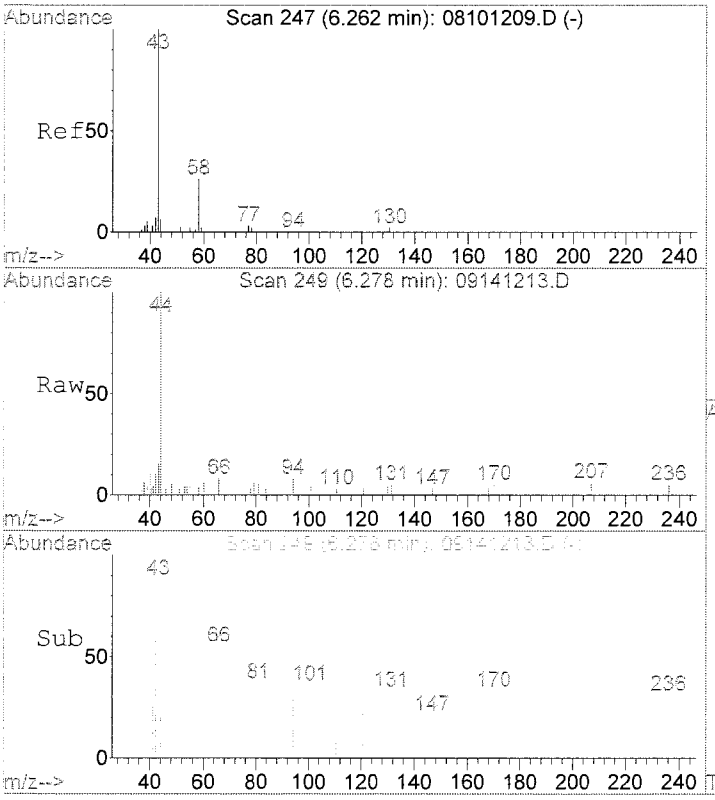


#9
Bromomethane
Concen: 0.33 ug/L
RT: 5.30 min Scan# 150
Delta R.T. 0.11 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 94 Resp: 1772

Ion	Ratio	Lower	Upper
94	100		
96	8.0	75.8	113.6#

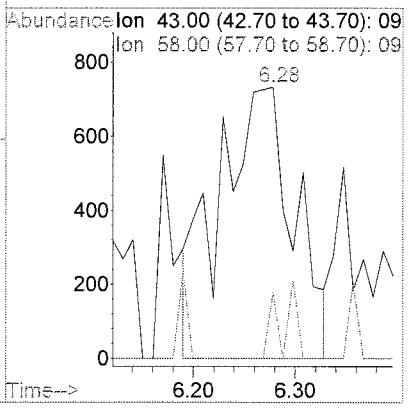


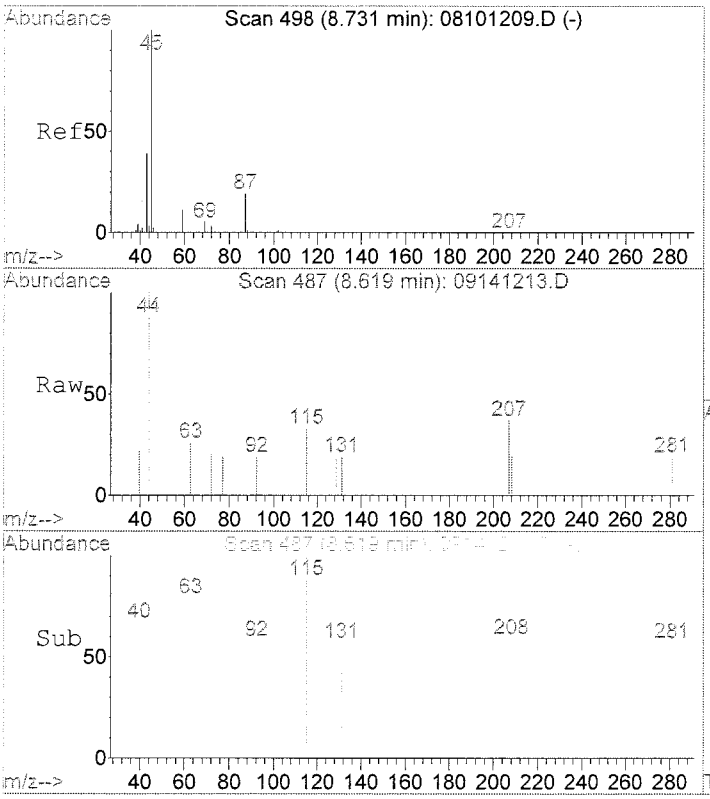


#12
Acetone
Concen: 3.35 ug/L
RT: 6.28 min Scan# 249
Delta R.T. 0.02 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 43 Resp: 3758

Ion	Ratio	Lower	Upper
43	100		
58	3.4	25.9	38.9#

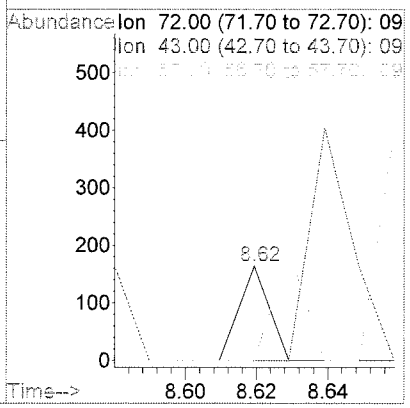




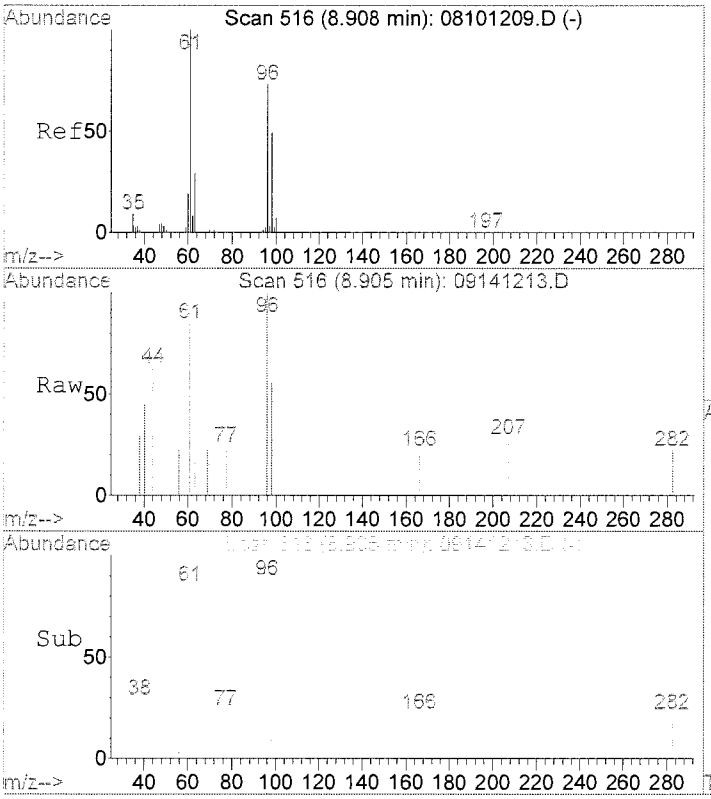
#23
2-Butanone (MEK)
Concen: 0.25 ug/L
RT: 8.62 min Scan# 487
Delta R.T. -0.11 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 72 Resp: 97

Ion	Ratio	Lower	Upper
72	100		
43	0.0	1366.5	2049.7#
57	115.5	0.0	0.0#



9

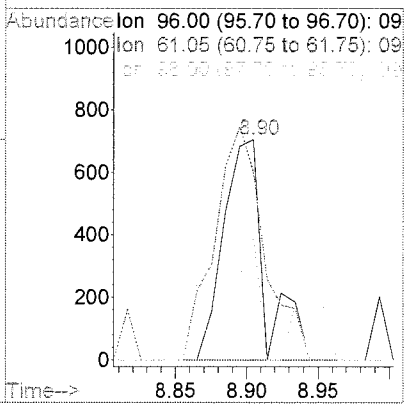


#25
cis-1,2-Dichloroethene
Concen: 0.25 ug/L
RT: 8.90 min Scan# 516
Delta R.T. -0.00 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

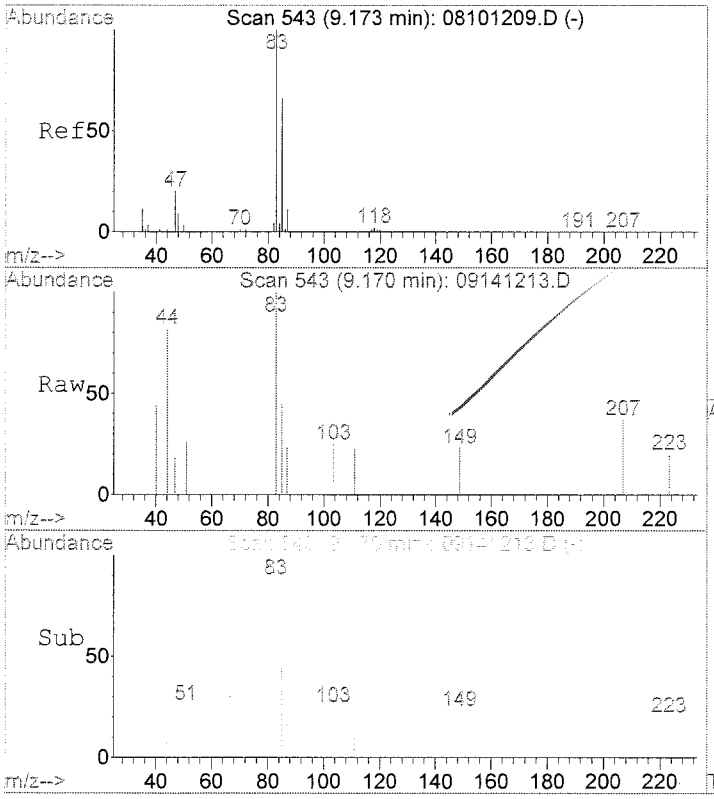
NSM

Tgt Ion: 96 Resp: 1428

Ion	Ratio	Lower	Upper
96	100		
61	128.0	103.2	154.8
98	47.8	51.4	77.2#



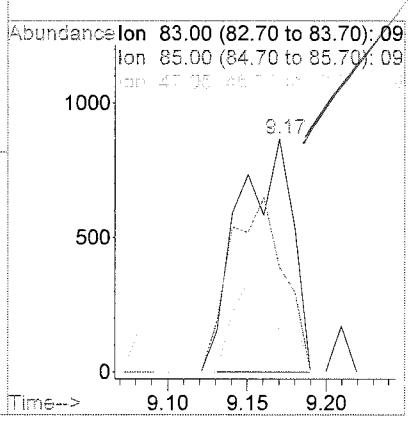
MM

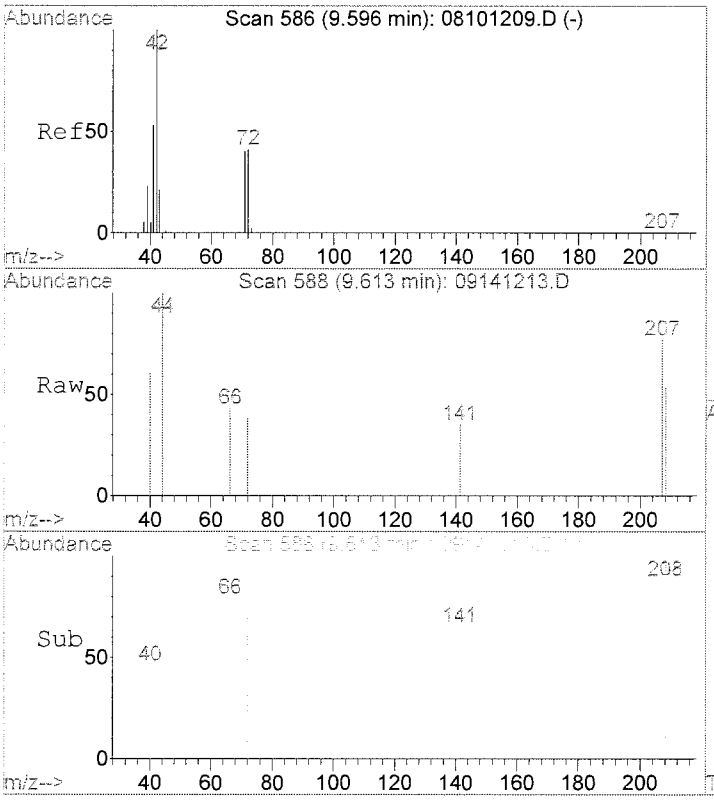


#27
Chloroform
Concen: 0.24 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 83 Resp: 2044

Ion	Ratio	Lower	Upper
83	100		
85	74.6	51.6	77.4
47	33.6	18.9	28.3#

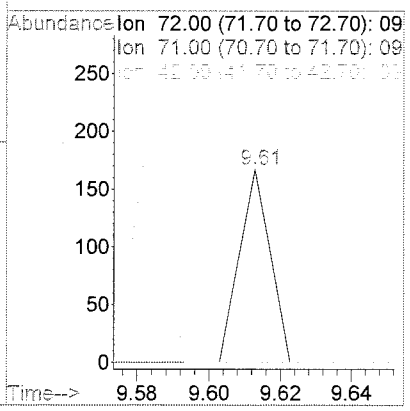


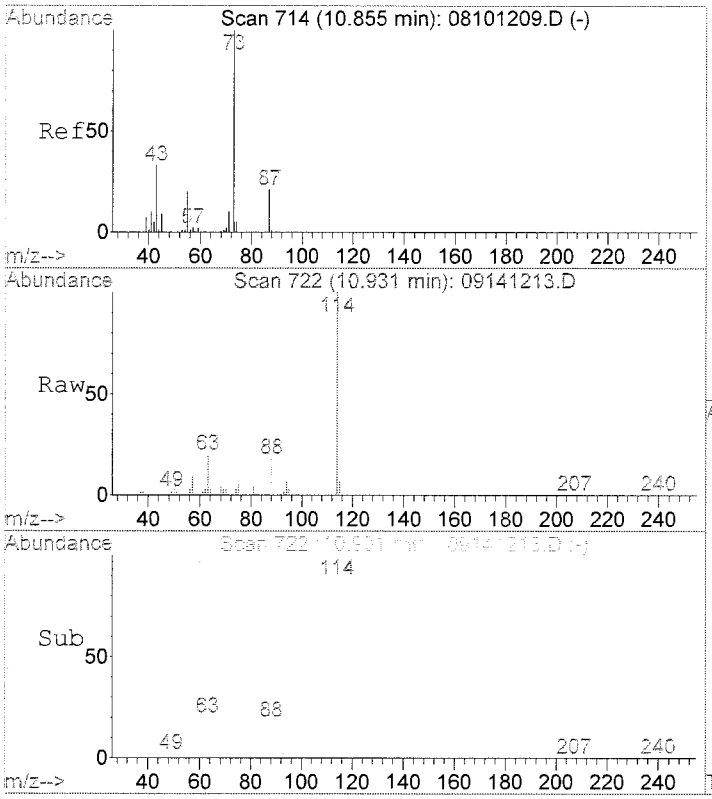


#31
Tetrahydrofuran
Concen: 0.28 ug/L
RT: 9.61 min Scan# 588
Delta R.T. 0.02 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 72 Resp: 99

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	120.2	217.1	325.7#

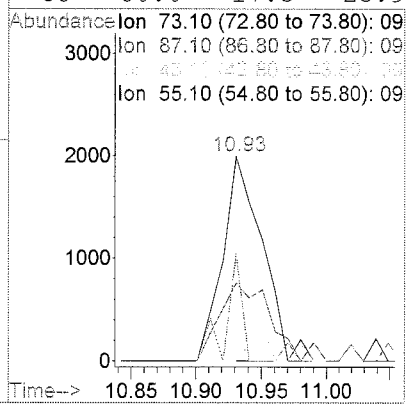


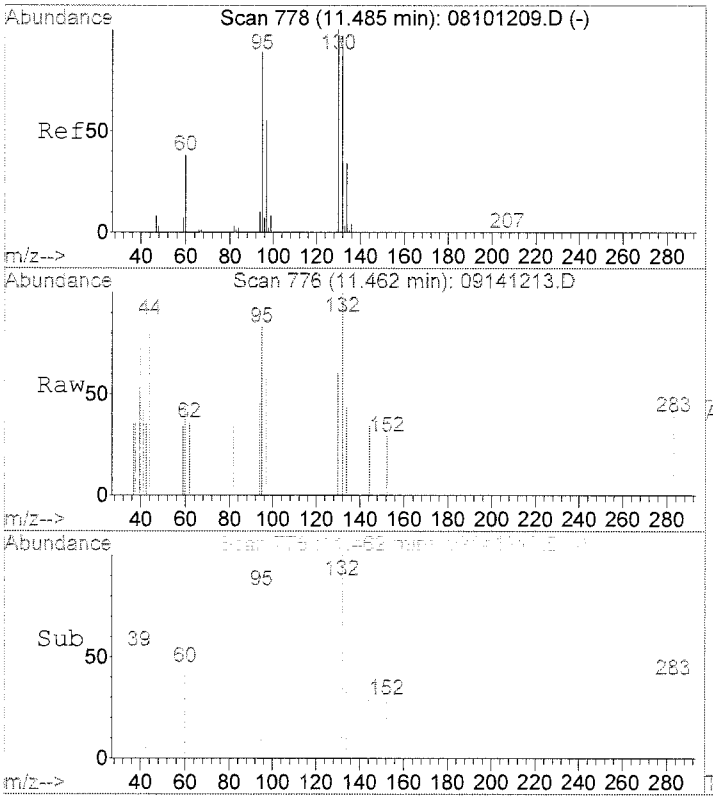


#34
(TAME) tert-Amyl methyl ether
Concen: 0.44 ug/L
RT: 10.93 min Scan# 722
Delta R.T. 0.08 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 73 Resp: 4166

Ion	Ratio	Lower	Upper
73	100		
87	20.6	16.4	24.6
43	7.3	27.0	40.4#
55	50.0	17.3	25.9#

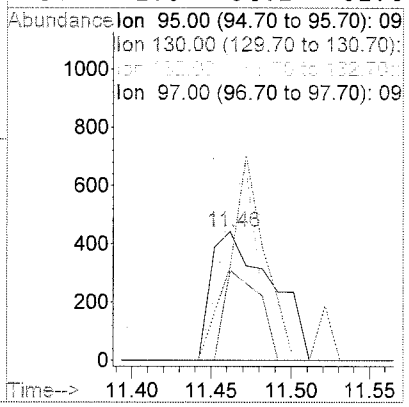




#41
Trichloroethene
Concen: 0.22 ug/L
RT: 11.46 min Scan# 776
Delta R.T. -0.02 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

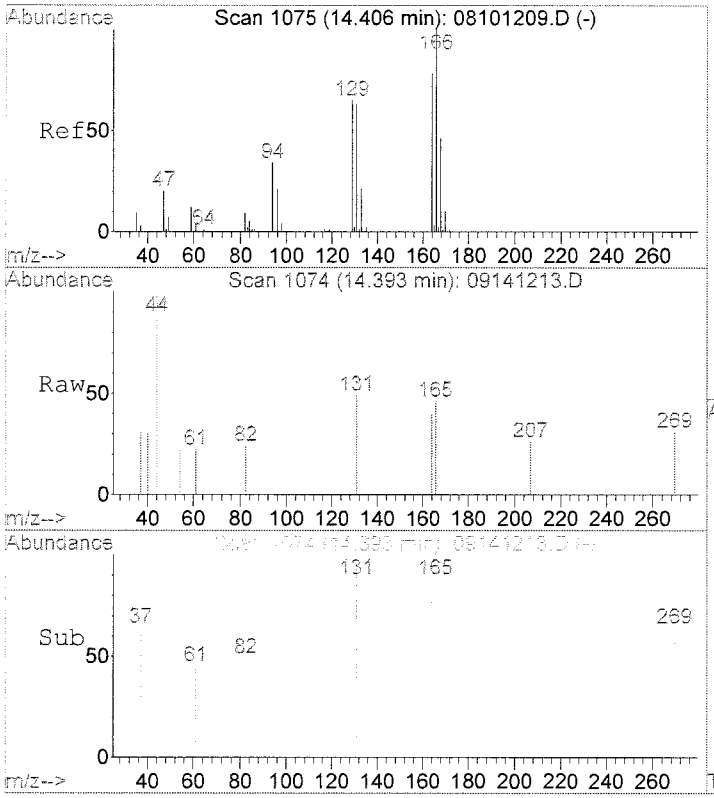
Tgt Ion: 95 Resp: 1143

Ion	Ratio	Lower	Upper
95	100		
130	92.2	87.3	130.9
132	94.3	84.2	126.4
97	41.0	54.2	81.4#



7

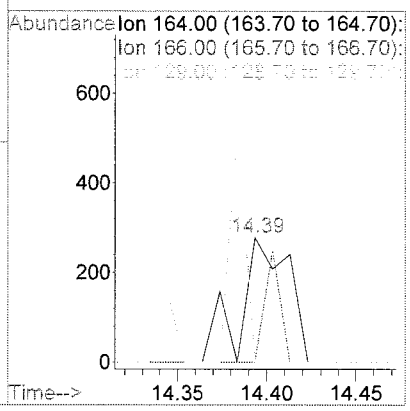
MM

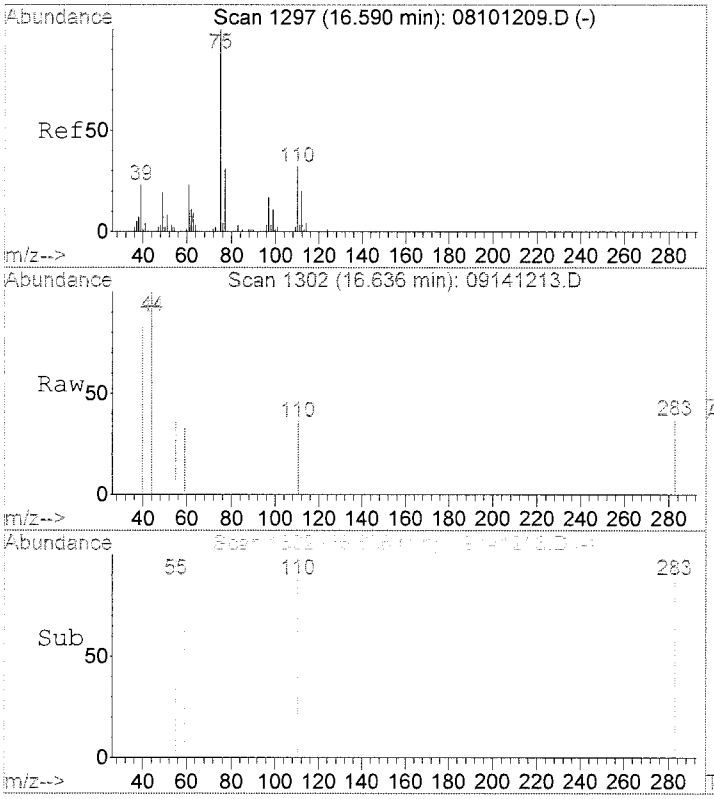


#55
Tetrachloroethene
Concen: 0.11 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion:164 Resp: 522

Ion	Ratio	Lower	Upper
164	100		
166	28.2	102.1	153.1#
129	58.8	66.5	99.7#

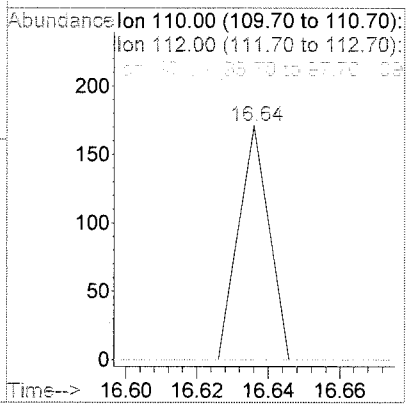


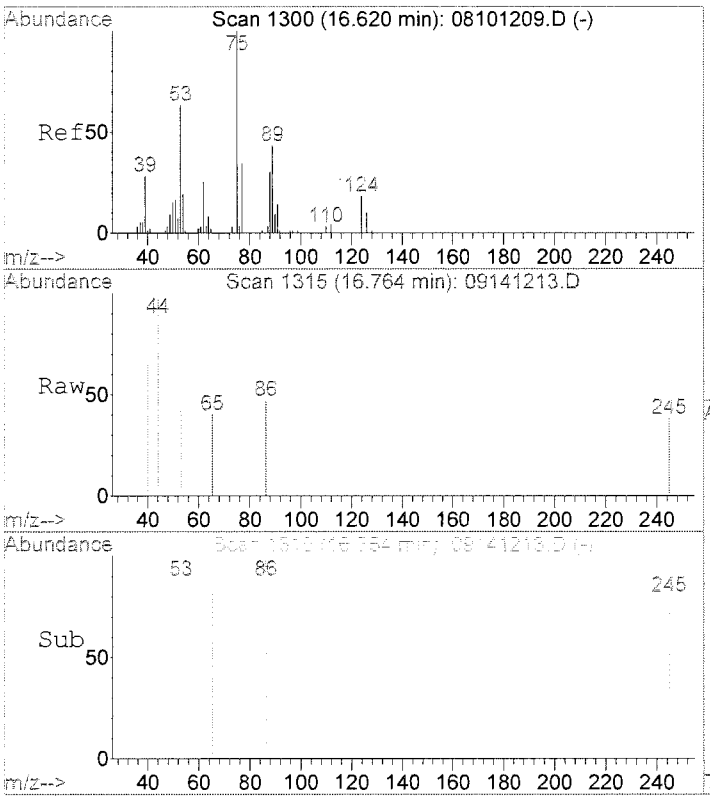


#66
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 16.64 min Scan# 1302
Delta R.T. 0.05 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion:110 Resp: 101

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

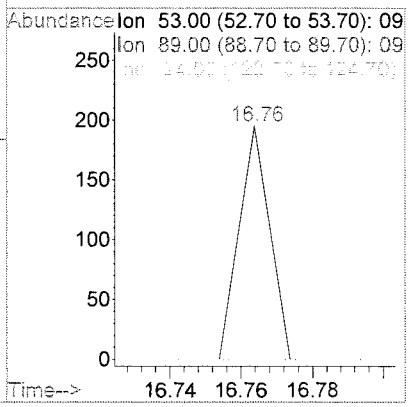




#67
trans-1,4-Dichloro-2-butene
Concen: 1.19 ug/L
RT: 16.76 min Scan# 1315
Delta R.T. 0.14 min
Lab File: 09141213.D
Acq: 14 Sep 2012 12:56 pm

Tgt Ion: 53 Resp: 115

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV04717

Description:	8260 50ppm SS	Expires:	08/14/12
Standard Type:	Analyte Spike	Prepared:	08/02/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/02/12 05:25 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU07320	SS 54 Compounds (O2SI)	07/18/12	Melissa Spencer	12/18/12	07/18/12 06:31 by MNM	0.05
PU07325	8260 Gases O2SI	07/31/12	Kaycee Halla	08/14/12	07/31/12 13:23 by KH	0.05
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV01265	2-Chloroethyl vinyl ether	07/23/12	Lauren Mayes	01/23/13	07/23/12 14:22 by LMM	0.05
PV02578	SS Custom 8260 VOC Mix	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:29 by MNM	0.05
PV04410	O2SI Additions	07/20/12	** Vendor **	08/20/12	07/27/12 17:09 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Description:	SS 54 Compounds (O2SI)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:31 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07325

Description:	8260 Gases O2SI	Expires:	08/14/12
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:23 by KH

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01265

Description:	2-Chloroethyl vinyl ether	Expires:	01/23/13
Standard Type:	Other	Prepared:	07/23/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/23/12 14:22 by LMM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02578

Description:	SS Custom 8260 VOC Mix	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:29 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04410

Description:	O2SI Additions	Expires:	08/20/12
Standard Type:	Other	Prepared:	07/20/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/27/12 17:09 by ExH

Catalog # 120561-01
Vial cracked: changed expiration/prep date ExH 07/27/12

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04303

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	08/17/12
Standard Type:	Analyte Spike	Prepared:	07/17/12
Solvent:	MEOH/117046	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03429	tert-butyl alcohol	06/07/12	Lauren Mayes	12/19/12	06/19/12 15:31 by LMM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03429

Description:	tert-butyl alcohol	Expires:	12/19/12
Standard Type:	Other	Prepared:	06/07/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:31 by LMM

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Description:	8260 2.5 ppm CCV Standard	Expires:	08/15/12
Standard Type:	Calibration Stan	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	2.5	ppm
2-Butanone	78-93-3	2.5	ppm
2-Butanone (MEK)	78-93-3	2.5	ppm
2-Chloroethyl vinyl ether	110-75-8	2.5	ppm
2-Chlorotoluene	95-49-8	2.5	ppm
2-Hexanone	591-78-6	2.5	ppm
4-Chlorotoluene	106-43-4	2.5	ppm
4-Isopropyltoluene	99-87-6	2.5	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	ppm
1,1,1,2-Tetrachloroethane	630-20-6	2.5	ppm
Benzene	71-43-2	2.5	ppm
1,3-Dichloropropane	142-28-9	2.5	ppm
Bromochloromethane	74-97-5	2.5	ppm
Bromodichloromethane	75-27-4	2.5	ppm
Bromoform	75-25-2	2.5	ppm
Bromomethane	74-83-9	2.5	ppm
Carbon disulfide	75-15-0	2.5	ppm
Carbon tetrachloride	56-23-5	2.5	ppm
Chlorobenzene	108-90-7	2.5	ppm
Chloroethane	75-00-3	2.5	ppm
Acetone	67-64-1	2.5	ppm
1,2-Dibromo-3-chloropropane	96-12-8	2.5	ppm
1,1,1-Trichloroethane	71-55-6	2.5	ppm
1,1,2,2-Tetrachloroethane	79-34-5	2.5	ppm
1,1,2-Trichloroethane	79-00-5	2.5	ppm
1,1-Dichloroethane	75-34-3	2.5	ppm
1,1-Dichloroethene	75-35-4	2.5	ppm
1,1-Dichloropropene	563-58-6	2.5	ppm
1,2,3-Trichlorobenzene	87-61-6	2.5	ppm
1,2,3-Trichloropropane	96-18-4	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

2,2-Dichloropropane	594-20-7	2.5	ppm
1,2,4-Trimethylbenzene	95-63-6	2.5	ppm
1,4-Dichlorobenzene	106-46-7	2.5	ppm
1,2-Dibromoethane	106-93-4	2.5	ppm
1,2-Dibromoethane (EDB)	106-93-4	2.5	ppm
1,2-Dichlorobenzene	95-50-1	2.5	ppm
1,2-Dichloroethane	107-06-2	2.5	ppm
1,2-Dichloropropane	78-87-5	2.5	ppm
1,3,5-Trimethylbenzene	108-67-8	2.5	ppm
1,3-Butadiene	106-99-0	2.5	ppm
1,3-Dichlorobenzene	541-73-1	2.5	ppm
cis-1,2-Dichloroethene	156-59-2	2.5	ppm
1,2,4-Trichlorobenzene	120-82-1	2.5	ppm
Tetrachloroethene	127-18-4	2.5	ppm
Chloroform	67-66-3	2.5	ppm
Naphthalene	91-20-3	2.5	ppm
o-Xylene	95-47-6	2.5	ppm
p-Isopropyltoluene	99-87-6	2.5	ppm
p-Xylene	106-42-3	2.5	ppm
sec-Butylbenzene	135-98-8	2.5	ppm
Styrene	100-42-5	2.5	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	2.5	ppm
n-Hexane	110-54-3	2.5	ppm
tert-Butylbenzene	98-06-6	2.5	ppm
n-Butylbenzene	104-51-8	2.5	ppm
Tetrahydrofuran	109-99-9	2.5	ppm
Toluene	108-88-3	2.5	ppm
trans-1,2-Dichloroethene	156-60-5	2.5	ppm
trans-1,3-Dichloropropene	10061-02-6	2.5	ppm
trans-1,4-Dichloro-2-butene	110-57-6	2.5	ppm
Trichloroethene	79-01-6	2.5	ppm
Trichlorofluoromethane	75-69-4	2.5	ppm
Vinyl Acetate	108-05-4	2.5	ppm
Vinyl chloride	75-01-4	2.5	ppm
tert-Butyl ethyl ether	637-92-3	2.5	ppm
Iodomethane	4227-95-6	2.5	ppm
Xylenes, Total	1330-20-7	5	ppm
cis-1,3-Dichloropropene	10061-01-5	2.5	ppm
Di-isopropyl Ether (DIPE)	108-20-3	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Dibromochloromethane	124-48-1	2.5	ppm
Dibromomethane	74-95-3	2.5	ppm
Dichlorodifluoromethane	75-71-8	2.5	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2.5	ppm
Ethylbenzene	100-41-4	2.5	ppm
n-Propylbenzene	103-65-1	2.5	ppm
Hexachlorobutadiene	87-68-3	2.5	ppm
Chloromethane	74-87-3	2.5	ppm
Isopropylbenzene	98-82-8	2.5	ppm
m,p-Xylenes	179601-23-1	2.5	ppm
m-Xylene - Front	108-38-3	2.5	ppm
Methyl Ethyl Ketone	78-93-3	2.5	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2.5	ppm
Methyl tert-Butyl Ether	1634-04-4	2.5	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2.5	ppm
Methylene Chloride	75-09-2	2.5	ppm
MTBE	1634-04-4	2.5	ppm
Freon 113	76-13-1	2.5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04887	8260 50 ppm CCV (No Surr.)	08/10/12	Marbella Mazza	08/15/12	08/22/12 05:32 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Description:	8260 50 ppm CCV (No Surr.)	Expires:	08/15/12
Standard Type:	Analyte Spike	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03588	PS Custom 8260 Mix	06/14/12	Marbella Mazza	11/14/12	06/19/12 09:59 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PU05931	PS 54 Compounds 502/524 (Absolu	06/25/12	Marbella Mazza	11/25/12	08/22/12 05:32 by KH	0.05
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04452	Crescent Gases	08/08/12	Kaycee Halla	08/15/12	08/08/12 15:53 by KH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03588

Description:	PS Custom 8260 Mix	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 09:59 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Description:	PS 54 Compounds 502/524 (Absolute)	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04452

Description:	Crescent Gases	Expires:	08/15/12
Standard Type:	Other	Prepared:	08/08/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/08/12 15:53 by KH

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04792

Description:	50ppm EtOH/25ppmTBA/5ppm Surr	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/13/12 12:38 by KH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	5	ppm
Tert-Butanol (TBA)	75-65-0	25	ppm
t-Butanol (TBA)	75-65-0	25	ppm
Ethanol	64-17-5	50	ppm
Dibromofluoromethane	1868-53-7	5	ppm
4-Bromofluorobenzene	460-00-4	5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04791	PS EtOH/TBA + SURR	08/07/12	Marbella Mazza	09/07/12	08/07/12 12:35 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04791

Description:	PS EtOH/TBA + SURR	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 12:35 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04795

Description:	50 ppm IS/400ppm TBAd9	Expires:	09/07/12
Standard Type:	Reference Mate	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

IS for 2,4.7.

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04794

Description:	8260/624 IS/Surrogate	Expires:	09/07/12
Standard Type:	Surrogate Spike	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04559

Description:	25 ppm 4-BFB	Expires:	08/26/12
Standard Type:	MS Tune Soluti	Prepared:	07/26/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/26/12 07:48 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Description:	8260 50ppm SS	Expires:	09/25/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 05:21 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV03425	2-Chloroethyl vinyl ether	09/11/12	Marbella Mazza	01/11/13	09/11/12 13:31 by MNM	0.05
PV04409	O2SI Additions	09/11/12	Marbella Mazza	10/07/12	09/11/12 13:34 by MNM	0.05
PV04431	8260 Gases O2SI	09/11/12	Marbella Mazza	09/25/12	09/11/12 13:32 by MNM	0.05
PV04684	SS 54 Compounds (O2SI)	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:33 by MNM	0.05
PV05262	SS Custom 8260 VOC Mix	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:35 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03425

Description:	2-Chloroethyl vinyl ether	Expires:	01/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:31 by MNM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04409

Description:	O2SI Additions	Expires:	10/07/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:34 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04431

Description:	8260 Gases O2SI	Expires:	09/25/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:32 by MNM

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Description:	SS 54 Compounds (O2SI)	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:33 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05262

Description:	SS Custom 8260 VOC Mix	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:35 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05606

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	10/12/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MEOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 15:45 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03432	SS tert-butyl alcohol	08/06/12	Kaycee Halla	02/06/14	08/06/12 15:37 by KH	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03432

Description:	SS tert-butyl alcohol	Expires:	02/06/14
Standard Type:	Other	Prepared:	08/06/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/06/12 15:37 by KH

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05431

Description:	PS EtOH/TBA + SURR	Expires:	10/05/12
Standard Type:	Calibration Stan	Prepared:	09/05/12
Solvent:	MeOH/117046	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03646	8260 Surrogates	09/05/12	Marbella Mazza	03/05/14	09/05/12 05:49 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03646

Description:	8260 Surrogates	Expires:	03/05/14
Standard Type:	Other	Prepared:	09/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05519

Description:	50 ppm IS/400ppm TBAd9	Expires:	10/10/12
Standard Type:	Reference Mate	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 15:14 by KH

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05503

Description:	8260/624 IS/Surrogate	Expires:	10/10/12
Standard Type:	Surrogate Spike	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 06:13 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.04
PV03645	8260 Surrogates	08/28/12	Kaycee Halla	02/28/13	08/28/12 08:31 by KH	0.1
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03645

Description:	8260 Surrogates	Expires:	02/28/13
Standard Type:	Other	Prepared:	08/28/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/28/12 08:31 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05230

Description:	25 ppm 4-BFB	Expires:	09/27/12
Standard Type:	MS Tune Soluti	Prepared:	08/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/27/12 04:18 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Description:	8260 50 ppm CCV (No Surr.)	Expires:	09/14/12
Standard Type:	Analyte Spike	Prepared:	09/07/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:10 by MNM

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU02260	PS 54 Compounds (Absolute)	08/31/12	Marbella Mazza	02/13/13	08/31/12 04:27 by MNM	0.05
PU03586	PS Custom 8260 Mix	08/14/12	Kaycee Halla	02/14/13	08/16/12 08:04 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05
PV05003	Crescent Gases	09/07/12	Marbella Mazza	09/14/12	09/07/12 06:08 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Description:	PS 54 Compounds (Absolute)	Expires:	02/13/13
Standard Type:	Other	Prepared:	08/31/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/31/12 04:27 by MNM

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03586

Description:	PS Custom 8260 Mix	Expires:	02/14/13
Standard Type:	Other	Prepared:	08/14/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/16/12 08:04 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05003

Description:	Crescent Gases	Expires:	09/14/12
Standard Type:	Other	Prepared:	09/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:08 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVI0717

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, & 505

Sampled: 09/12/12
Received: 09/12/12
Issued: 09/24/12 16:48

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVI0717-01	Trip Blank	Water
PVI0717-02	MW6M2-091212	Water
PVI0717-03	MW6S-091212-A	Water
PVI0717-04	MW6M-091212	Water
PVI0717-05	FB1-091212	Water
PVI0717-06	PE1-091212	Water
PVI0717-07	MW4M-091212	Water
PVI0717-08	MW4S-091212	Water
PVI0717-09	MW7S-091212	Water
PVI0717-10	MW6S-091212-B	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record PVI0717

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Site Contact: Laura Menken	Date: 9/12/12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	___ of ___ COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No.
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) _____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
TRIP BLANK	—	—		W	1		X		X	-01
MW6M2-091212	9/12/12	9:03	GW	W	3		X		X	-02
MW6S-091212-A	9/12/12	9:38	GW	W	3		X		X	-03
MW6S-091212-B	9/12/12	9:45	GW	W	3		X		X	~~-03~~ ~~-04~~
MW6M-091212	9/12/12	11:30	GW	W	3		X		X	~~-05~~ -04
FB1-091212	9/12/12	11:15	W	W	3		X		X	~~-06~~ -05
PE1-091212	9/12/12	12:27	W	W	3		X		X	~~-07~~ -06
MW4M-091212	9/12/12	13:10	GW	W	3		X		X	~~-08~~ -07
MW4S-091212	9/12/12	13:45	GW	W	3		X		X	~~-09~~ -08
MW7S-091212	9/12/12	14:40	GW	W	3		X		X	~~-10~~ -09
										9/12/12

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: *Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.*

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Shenell L Nas	AMEC	9/12/12 15:51			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
					9/12/12 1555

2.1°C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-01 (Trip Blank - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0539	7.3	10	ND	1	09/16/12	09/16/12	E8
Benzene	EPA 8260B	12I0539	0.12	0.50	ND	1	09/16/12	09/16/12	E8
Bromobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Bromochloromethane	EPA 8260B	12I0539	0.27	0.50	ND	1	09/16/12	09/16/12	E8
Bromodichloromethane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Bromoform	EPA 8260B	12I0539	0.37	1.0	ND	1	09/16/12	09/16/12	E8
Bromomethane	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
2-Butanone (MEK)	EPA 8260B	12I0539	2.2	5.0	ND	1	09/16/12	09/16/12	E8
tert-Butylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
n-Butylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
sec-Butylbenzene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Carbon disulfide	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Carbon tetrachloride	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
Chlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
Chloroethane	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
Chloroform	EPA 8260B	12I0539	0.13	0.50	ND	1	09/16/12	09/16/12	E8
Chloromethane	EPA 8260B	12I0539	0.21	1.0	ND	1	09/16/12	09/16/12	E8
4-Chlorotoluene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
2-Chlorotoluene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0539	0.82	5.0	ND	1	09/16/12	09/16/12	E8
Dibromochloromethane	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0539	0.30	0.50	ND	1	09/16/12	09/16/12	E8
Dibromomethane	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethane	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0539	0.29	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
2,2-Dichloropropane	EPA 8260B	12I0539	0.18	1.0	ND	1	09/16/12	09/16/12	E8
1,3-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloropropene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0539	0.47	0.50	ND	1	09/16/12	09/16/12	E8
Ethylbenzene	EPA 8260B	12I0539	0.32	0.50	ND	1	09/16/12	09/16/12	E8
Hexachlorobutadiene	EPA 8260B	12I0539	0.28	1.0	ND	1	09/16/12	09/16/12	E8, V1

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-01 (Trip Blank - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0539	1.5	5.0	ND	1	09/16/12	09/16/12	E8
Iodomethane	EPA 8260B	12I0539	0.21	2.5	ND	1	09/16/12	09/16/12	E8
Isopropylbenzene	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
p-Isopropyltoluene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
Methylene Chloride	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0539	1.3	2.5	ND	1	09/16/12	09/16/12	E8
Naphthalene	EPA 8260B	12I0539	0.51	2.5	ND	1	09/16/12	09/16/12	E8
n-Propylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Styrene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0539	0.35	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0539	0.33	0.50	ND	1	09/16/12	09/16/12	E8
Tetrachloroethene	EPA 8260B	12I0539	0.18	0.50	ND	1	09/16/12	09/16/12	E8
Toluene	EPA 8260B	12I0539	0.28	0.50	ND	1	09/16/12	09/16/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0539	0.32	1.0	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0539	0.45	1.0	ND	1	09/16/12	09/16/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
Trichloroethene	EPA 8260B	12I0539	0.24	0.50	ND	1	09/16/12	09/16/12	E8
Trichlorofluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0539	0.78	2.0	ND	1	09/16/12	09/16/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Vinyl Acetate	EPA 8260B	12I0539	0.81	2.0	ND	1	09/16/12	09/16/12	E8
Vinyl chloride	EPA 8260B	12I0539	0.18	0.50	ND	1	09/16/12	09/16/12	E8
Xylenes, Total	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*107 %*				
Surrogate: Toluene-d8 (70-130%)					*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-02 (MW6M2-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0539	7.3	10	ND	1	09/16/12	09/16/12	E8
Benzene	EPA 8260B	12I0539	0.12	0.50	ND	1	09/16/12	09/16/12	E8
Bromobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Bromochloromethane	EPA 8260B	12I0539	0.27	0.50	ND	1	09/16/12	09/16/12	E8
Bromodichloromethane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Bromoform	EPA 8260B	12I0539	0.37	1.0	ND	1	09/16/12	09/16/12	E8
Bromomethane	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
2-Butanone (MEK)	EPA 8260B	12I0539	2.2	5.0	ND	1	09/16/12	09/16/12	E8
tert-Butylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
n-Butylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
sec-Butylbenzene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Carbon disulfide	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Carbon tetrachloride	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
Chlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
Chloroethane	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
Chloroform	EPA 8260B	12I0539	0.13	0.50	ND	1	09/16/12	09/16/12	E8
Chloromethane	EPA 8260B	12I0539	0.21	1.0	ND	1	09/16/12	09/16/12	E8
4-Chlorotoluene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
2-Chlorotoluene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0539	0.82	5.0	ND	1	09/16/12	09/16/12	E8
Dibromochloromethane	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0539	0.30	0.50	ND	1	09/16/12	09/16/12	E8
Dibromomethane	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethane	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0539	0.29	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
2,2-Dichloropropane	EPA 8260B	12I0539	0.18	1.0	ND	1	09/16/12	09/16/12	E8
1,3-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloropropene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0539	0.47	0.50	ND	1	09/16/12	09/16/12	E8
Ethylbenzene	EPA 8260B	12I0539	0.32	0.50	ND	1	09/16/12	09/16/12	E8
Hexachlorobutadiene	EPA 8260B	12I0539	0.28	1.0	ND	1	09/16/12	09/16/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-02 (MW6M2-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0539	1.5	5.0	ND	1	09/16/12	09/16/12	E8
Iodomethane	EPA 8260B	12I0539	0.21	2.5	ND	1	09/16/12	09/16/12	E8
Isopropylbenzene	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
p-Isopropyltoluene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
Methylene Chloride	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0539	1.3	2.5	ND	1	09/16/12	09/16/12	E8
Naphthalene	EPA 8260B	12I0539	0.51	2.5	ND	1	09/16/12	09/16/12	E8
n-Propylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Styrene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0539	0.35	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0539	0.33	0.50	ND	1	09/16/12	09/16/12	E8
Tetrachloroethene	EPA 8260B	12I0539	0.18	0.50	ND	1	09/16/12	09/16/12	E8
Toluene	EPA 8260B	12I0539	0.28	0.50	ND	1	09/16/12	09/16/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0539	0.32	1.0	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0539	0.45	1.0	ND	1	09/16/12	09/16/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
Trichloroethene	EPA 8260B	12I0539	0.24	0.50	ND	1	09/16/12	09/16/12	E8
Trichlorofluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0539	0.78	2.0	ND	1	09/16/12	09/16/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Vinyl Acetate	EPA 8260B	12I0539	0.81	2.0	ND	1	09/16/12	09/16/12	E8
Vinyl chloride	EPA 8260B	12I0539	0.18	0.50	ND	1	09/16/12	09/16/12	E8
Xylenes, Total	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*96 %*				
Surrogate: Dibromofluoromethane (70-130%)					*108 %*				
Surrogate: Toluene-d8 (70-130%)					*97 %*				

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-03 (MW6S-091212-A - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0539	7.3	10	ND	1	09/16/12	09/16/12	E8
Benzene	EPA 8260B	12I0539	0.12	0.50	ND	1	09/16/12	09/16/12	E8
Bromobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Bromochloromethane	EPA 8260B	12I0539	0.27	0.50	ND	1	09/16/12	09/16/12	E8
Bromodichloromethane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Bromoform	EPA 8260B	12I0539	0.37	1.0	ND	1	09/16/12	09/16/12	E8
Bromomethane	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
2-Butanone (MEK)	EPA 8260B	12I0539	2.2	5.0	ND	1	09/16/12	09/16/12	E8
tert-Butylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
n-Butylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
sec-Butylbenzene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
Carbon disulfide	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Carbon tetrachloride	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
Chlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
Chloroethane	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
Chloroform	EPA 8260B	12I0539	0.13	0.50	**0.82**	1	09/16/12	09/16/12	
Chloromethane	EPA 8260B	12I0539	0.21	1.0	ND	1	09/16/12	09/16/12	E8
4-Chlorotoluene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
2-Chlorotoluene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0539	0.82	5.0	ND	1	09/16/12	09/16/12	E8
Dibromochloromethane	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0539	0.30	0.50	ND	1	09/16/12	09/16/12	E8
Dibromomethane	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethane	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0539	0.29	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloroethene	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
1,2-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
2,2-Dichloropropane	EPA 8260B	12I0539	0.18	1.0	ND	1	09/16/12	09/16/12	E8
1,3-Dichloropropane	EPA 8260B	12I0539	0.23	0.50	ND	1	09/16/12	09/16/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0539	0.14	0.50	ND	1	09/16/12	09/16/12	E8
1,1-Dichloropropene	EPA 8260B	12I0539	0.20	0.50	ND	1	09/16/12	09/16/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0539	0.47	0.50	ND	1	09/16/12	09/16/12	E8
Ethylbenzene	EPA 8260B	12I0539	0.32	0.50	ND	1	09/16/12	09/16/12	E8
Hexachlorobutadiene	EPA 8260B	12I0539	0.28	1.0	ND	1	09/16/12	09/16/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-03 (MW6S-091212-A - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0539	1.5	5.0	ND	1	09/16/12	09/16/12	E8
Iodomethane	EPA 8260B	12I0539	0.21	2.5	ND	1	09/16/12	09/16/12	E8
Isopropylbenzene	EPA 8260B	12I0539	0.26	0.50	ND	1	09/16/12	09/16/12	E8
p-Isopropyltoluene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0539	0.22	0.50	ND	1	09/16/12	09/16/12	E8
Methylene Chloride	EPA 8260B	12I0539	0.67	1.0	ND	1	09/16/12	09/16/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0539	1.3	2.5	ND	1	09/16/12	09/16/12	E8
Naphthalene	EPA 8260B	12I0539	0.51	2.5	ND	1	09/16/12	09/16/12	E8
n-Propylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Styrene	EPA 8260B	12I0539	0.17	0.50	ND	1	09/16/12	09/16/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0539	0.35	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0539	0.33	0.50	ND	1	09/16/12	09/16/12	E8
Tetrachloroethene	EPA 8260B	12I0539	0.18	0.50	**0.59**	1	09/16/12	09/16/12	
Toluene	EPA 8260B	12I0539	0.28	0.50	ND	1	09/16/12	09/16/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0539	0.32	1.0	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0539	0.45	1.0	ND	1	09/16/12	09/16/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0539	0.31	0.50	ND	1	09/16/12	09/16/12	E8
Trichloroethene	EPA 8260B	12I0539	0.24	0.50	**0.32**	1	09/16/12	09/16/12	E4
Trichlorofluoromethane	EPA 8260B	12I0539	0.15	0.50	ND	1	09/16/12	09/16/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0539	0.78	2.0	ND	1	09/16/12	09/16/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0539	0.25	0.50	ND	1	09/16/12	09/16/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0539	0.21	0.50	ND	1	09/16/12	09/16/12	E8
Vinyl Acetate	EPA 8260B	12I0539	0.81	2.0	ND	1	09/16/12	09/16/12	E8
Vinyl chloride	EPA 8260B	12I0539	0.18	0.50	ND	1	09/16/12	09/16/12	E8
Xylenes, Total	EPA 8260B	12I0539	0.86	1.0	ND	1	09/16/12	09/16/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*109 %*				
Surrogate: Toluene-d8 (70-130%)					*98 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-04 (MW6M-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.47**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-04 (MW6M-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*100 %*				
Surrogate: Dibromofluoromethane (70-130%)					*111 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-05 (FB1-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	ND	1	09/14/12	09/14/12	E8
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-05 (FB1-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*98 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-06 (PE1-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	**7.2**	1	09/14/12	09/14/12	
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	ND	1	09/14/12	09/14/12	E8
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-06 (PE1-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	**5.1**	1	09/14/12	09/14/12	
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	**5.2**	1	09/14/12	09/14/12	
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*109 %*				
Surrogate: Toluene-d8 (70-130%)					*99 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-07 (MW4M-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.32**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-07 (MW4M-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*105 %*				
Surrogate: Dibromofluoromethane (70-130%)					*110 %*				
Surrogate: Toluene-d8 (70-130%)					*97 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-08 (MW4S-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.39**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-08 (MW4S-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	**0.30**	1	09/14/12	09/14/12	E4
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*100 %*				
Surrogate: Dibromofluoromethane (70-130%)					*110 %*				
Surrogate: Toluene-d8 (70-130%)					*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-09 (MW7S-091212 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0474	7.3	10	ND	1	09/14/12	09/14/12	E8
Benzene	EPA 8260B	12I0474	0.12	0.50	ND	1	09/14/12	09/14/12	E8
Bromobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Bromochloromethane	EPA 8260B	12I0474	0.27	0.50	ND	1	09/14/12	09/14/12	E8
Bromodichloromethane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Bromoform	EPA 8260B	12I0474	0.37	1.0	ND	1	09/14/12	09/14/12	E8
Bromomethane	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
2-Butanone (MEK)	EPA 8260B	12I0474	2.2	5.0	ND	1	09/14/12	09/14/12	E8
tert-Butylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
n-Butylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
sec-Butylbenzene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
Carbon disulfide	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Carbon tetrachloride	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
Chlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
Chloroethane	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
Chloroform	EPA 8260B	12I0474	0.13	0.50	**0.32**	1	09/14/12	09/14/12	E4
Chloromethane	EPA 8260B	12I0474	0.21	1.0	ND	1	09/14/12	09/14/12	E8
4-Chlorotoluene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
2-Chlorotoluene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0474	0.82	5.0	ND	1	09/14/12	09/14/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0474	0.30	0.50	ND	1	09/14/12	09/14/12	E8
Dibromomethane	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethane	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0474	0.29	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloroethene	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
1,2-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
2,2-Dichloropropane	EPA 8260B	12I0474	0.18	1.0	ND	1	09/14/12	09/14/12	E8
1,3-Dichloropropane	EPA 8260B	12I0474	0.23	0.50	ND	1	09/14/12	09/14/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0474	0.14	0.50	ND	1	09/14/12	09/14/12	E8
1,1-Dichloropropene	EPA 8260B	12I0474	0.20	0.50	ND	1	09/14/12	09/14/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0474	0.47	0.50	ND	1	09/14/12	09/14/12	E8
Ethylbenzene	EPA 8260B	12I0474	0.32	0.50	ND	1	09/14/12	09/14/12	E8
Hexachlorobutadiene	EPA 8260B	12I0474	0.28	1.0	ND	1	09/14/12	09/14/12	E8

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-09 (MW7S-091212 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0474	1.5	5.0	ND	1	09/14/12	09/14/12	E8
Iodomethane	EPA 8260B	12I0474	0.21	2.5	ND	1	09/14/12	09/14/12	E8
Isopropylbenzene	EPA 8260B	12I0474	0.26	0.50	ND	1	09/14/12	09/14/12	E8
p-Isopropyltoluene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0474	0.22	0.50	ND	1	09/14/12	09/14/12	E8
Methylene Chloride	EPA 8260B	12I0474	0.67	1.0	ND	1	09/14/12	09/14/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0474	1.3	2.5	ND	1	09/14/12	09/14/12	E8
Naphthalene	EPA 8260B	12I0474	0.51	2.5	ND	1	09/14/12	09/14/12	E8
n-Propylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Styrene	EPA 8260B	12I0474	0.17	0.50	ND	1	09/14/12	09/14/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0474	0.35	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0474	0.33	0.50	ND	1	09/14/12	09/14/12	E8
Tetrachloroethene	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Toluene	EPA 8260B	12I0474	0.28	0.50	ND	1	09/14/12	09/14/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0474	0.32	1.0	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0474	0.45	1.0	ND	1	09/14/12	09/14/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0474	0.31	0.50	ND	1	09/14/12	09/14/12	E8
Trichloroethene	EPA 8260B	12I0474	0.24	0.50	ND	1	09/14/12	09/14/12	E8
Trichlorofluoromethane	EPA 8260B	12I0474	0.15	0.50	ND	1	09/14/12	09/14/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0474	0.78	2.0	ND	1	09/14/12	09/14/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0474	0.25	0.50	ND	1	09/14/12	09/14/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0474	0.21	0.50	ND	1	09/14/12	09/14/12	E8
Vinyl Acetate	EPA 8260B	12I0474	0.81	2.0	ND	1	09/14/12	09/14/12	E8
Vinyl chloride	EPA 8260B	12I0474	0.18	0.50	ND	1	09/14/12	09/14/12	E8
Xylenes, Total	EPA 8260B	12I0474	0.86	1.0	ND	1	09/14/12	09/14/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
Surrogate: Dibromofluoromethane (70-130%)					*106 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

TestAmerica Phoenix

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Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-10 (MW6S-091212-B - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0719	7.3	10	ND	1	09/20/12	09/20/12	E8
Benzene	EPA 8260B	12I0719	0.12	0.50	ND	1	09/20/12	09/20/12	E8
Bromobenzene	EPA 8260B	12I0719	0.14	0.50	ND	1	09/20/12	09/20/12	E8
Bromochloromethane	EPA 8260B	12I0719	0.27	0.50	ND	1	09/20/12	09/20/12	E8
Bromodichloromethane	EPA 8260B	12I0719	0.23	0.50	ND	1	09/20/12	09/20/12	E8
Bromoform	EPA 8260B	12I0719	0.37	1.0	ND	1	09/20/12	09/20/12	E8
Bromomethane	EPA 8260B	12I0719	0.67	1.0	ND	1	09/20/12	09/20/12	E8
2-Butanone (MEK)	EPA 8260B	12I0719	2.2	5.0	ND	1	09/20/12	09/20/12	E8
tert-Butylbenzene	EPA 8260B	12I0719	0.25	0.50	ND	1	09/20/12	09/20/12	E8
n-Butylbenzene	EPA 8260B	12I0719	0.21	0.50	ND	1	09/20/12	09/20/12	E8
sec-Butylbenzene	EPA 8260B	12I0719	0.23	0.50	ND	1	09/20/12	09/20/12	E8
Carbon disulfide	EPA 8260B	12I0719	0.86	1.0	ND	1	09/20/12	09/20/12	E8
Carbon tetrachloride	EPA 8260B	12I0719	0.15	0.50	ND	1	09/20/12	09/20/12	E8
Chlorobenzene	EPA 8260B	12I0719	0.17	0.50	ND	1	09/20/12	09/20/12	E8
Chloroethane	EPA 8260B	12I0719	0.25	0.50	ND	1	09/20/12	09/20/12	E8
Chloroform	EPA 8260B	12I0719	0.13	0.50	**0.65**	1	09/20/12	09/20/12	
Chloromethane	EPA 8260B	12I0719	0.21	1.0	ND	1	09/20/12	09/20/12	E8
4-Chlorotoluene	EPA 8260B	12I0719	0.20	0.50	ND	1	09/20/12	09/20/12	E8
2-Chlorotoluene	EPA 8260B	12I0719	0.17	0.50	ND	1	09/20/12	09/20/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0719	0.82	5.0	ND	1	09/20/12	09/20/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0719	0.22	0.50	ND	1	09/20/12	09/20/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0719	0.30	0.50	ND	1	09/20/12	09/20/12	E8
Dibromomethane	EPA 8260B	12I0719	0.26	0.50	ND	1	09/20/12	09/20/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0719	0.22	0.50	ND	1	09/20/12	09/20/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0719	0.17	0.50	ND	1	09/20/12	09/20/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0719	0.14	0.50	ND	1	09/20/12	09/20/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0719	0.15	0.50	ND	1	09/20/12	09/20/12	E8
1,1-Dichloroethane	EPA 8260B	12I0719	0.14	0.50	ND	1	09/20/12	09/20/12	E8
1,2-Dichloroethane	EPA 8260B	12I0719	0.31	0.50	ND	1	09/20/12	09/20/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0719	0.21	0.50	ND	1	09/20/12	09/20/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0719	0.29	0.50	ND	1	09/20/12	09/20/12	E8
1,1-Dichloroethene	EPA 8260B	12I0719	0.23	0.50	ND	1	09/20/12	09/20/12	E8
1,2-Dichloropropane	EPA 8260B	12I0719	0.23	0.50	ND	1	09/20/12	09/20/12	E8
2,2-Dichloropropane	EPA 8260B	12I0719	0.18	1.0	ND	1	09/20/12	09/20/12	E8
1,3-Dichloropropane	EPA 8260B	12I0719	0.23	0.50	ND	1	09/20/12	09/20/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0719	0.14	0.50	ND	1	09/20/12	09/20/12	E8
1,1-Dichloropropene	EPA 8260B	12I0719	0.20	0.50	ND	1	09/20/12	09/20/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0719	0.47	0.50	ND	1	09/20/12	09/20/12	E8
Ethylbenzene	EPA 8260B	12I0719	0.32	0.50	ND	1	09/20/12	09/20/12	E8
Hexachlorobutadiene	EPA 8260B	12I0719	0.28	1.0	ND	1	09/20/12	09/20/12	E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0717-10 (MW6S-091212-B - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0719	1.5	5.0	ND	1	09/20/12	09/20/12	E8
Iodomethane	EPA 8260B	12I0719	0.21	2.5	ND	1	09/20/12	09/20/12	E8
Isopropylbenzene	EPA 8260B	12I0719	0.26	0.50	ND	1	09/20/12	09/20/12	E8
p-Isopropyltoluene	EPA 8260B	12I0719	0.21	0.50	ND	1	09/20/12	09/20/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0719	0.22	0.50	ND	1	09/20/12	09/20/12	E8
Methylene Chloride	EPA 8260B	12I0719	0.67	1.0	ND	1	09/20/12	09/20/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0719	1.3	2.5	ND	1	09/20/12	09/20/12	E8
Naphthalene	EPA 8260B	12I0719	0.51	2.5	ND	1	09/20/12	09/20/12	E8
n-Propylbenzene	EPA 8260B	12I0719	0.21	0.50	ND	1	09/20/12	09/20/12	E8
Styrene	EPA 8260B	12I0719	0.17	0.50	ND	1	09/20/12	09/20/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0719	0.35	0.50	ND	1	09/20/12	09/20/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0719	0.33	0.50	ND	1	09/20/12	09/20/12	E8
Tetrachloroethene	EPA 8260B	12I0719	0.18	0.50	**0.57**	1	09/20/12	09/20/12	
Toluene	EPA 8260B	12I0719	0.28	0.50	ND	1	09/20/12	09/20/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0719	0.32	1.0	ND	1	09/20/12	09/20/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0719	0.45	1.0	ND	1	09/20/12	09/20/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0719	0.15	0.50	ND	1	09/20/12	09/20/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0719	0.31	0.50	ND	1	09/20/12	09/20/12	E8
Trichloroethene	EPA 8260B	12I0719	0.24	0.50	**0.48**	1	09/20/12	09/20/12	E4
Trichlorofluoromethane	EPA 8260B	12I0719	0.15	0.50	ND	1	09/20/12	09/20/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0719	0.78	2.0	ND	1	09/20/12	09/20/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0719	0.25	0.50	ND	1	09/20/12	09/20/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0719	0.21	0.50	ND	1	09/20/12	09/20/12	E8
Vinyl Acetate	EPA 8260B	12I0719	0.81	2.0	ND	1	09/20/12	09/20/12	E8
Vinyl chloride	EPA 8260B	12I0719	0.18	0.50	ND	1	09/20/12	09/20/12	E8
Xylenes, Total	EPA 8260B	12I0719	0.86	1.0	ND	1	09/20/12	09/20/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*92 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*103 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							*V1*
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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Phoenix, AZ 85072-3999
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Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							

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Kylie Emily
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Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Blank Analyzed: 09/14/2012 (12I0474-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*70-130*			
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
Acetone	31.7	10	7.3	ug/l	25.0		127	38-150			
Benzene	22.0	0.50	0.12	ug/l	25.0		88	70-130			
Bromobenzene	23.3	0.50	0.14	ug/l	25.0		93	70-130			
Bromochloromethane	22.1	0.50	0.27	ug/l	25.0		88	70-130			
Bromodichloromethane	25.2	0.50	0.23	ug/l	25.0		101	70-130			
Bromoform	25.5	1.0	0.37	ug/l	25.0		102	69-129			
Bromomethane	27.3	1.0	0.67	ug/l	25.0		109	57-138			
2-Butanone (MEK)	28.5	5.0	2.2	ug/l	25.0		114	53-150			
tert-Butylbenzene	26.6	0.50	0.25	ug/l	25.0		106	70-130			
n-Butylbenzene	24.6	0.50	0.21	ug/l	25.0		98	70-130			
sec-Butylbenzene	24.7	0.50	0.23	ug/l	25.0		99	70-130			
Carbon disulfide	26.3	1.0	0.86	ug/l	25.0		105	64-145			
Carbon tetrachloride	29.1	0.50	0.15	ug/l	25.0		116	70-143			
Chlorobenzene	23.2	0.50	0.17	ug/l	25.0		93	70-130			
Chloroethane	24.8	0.50	0.25	ug/l	25.0		99	66-131			
Chloroform	23.2	0.50	0.13	ug/l	25.0		93	70-130			
Chloromethane	27.8	1.0	0.21	ug/l	25.0		111	56-129			
4-Chlorotoluene	25.0	0.50	0.20	ug/l	25.0		100	70-130			
2-Chlorotoluene	25.0	0.50	0.17	ug/l	25.0		100	70-130			
1,2-Dibromo-3-chloropropane	26.2	5.0	0.82	ug/l	25.0		105	63-146			*V1*
Dibromochloromethane	24.2	0.50	0.22	ug/l	25.0		97	70-130			
1,2-Dibromoethane (EDB)	22.2	0.50	0.30	ug/l	25.0		89	70-130			
Dibromomethane	22.8	0.50	0.26	ug/l	25.0		91	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
1,2-Dichlorobenzene	23.9	0.50	0.22	ug/l	25.0		96	70-130			
1,4-Dichlorobenzene	23.6	0.50	0.17	ug/l	25.0		94	70-130			
1,3-Dichlorobenzene	24.6	0.50	0.14	ug/l	25.0		98	70-130			
Dichlorodifluoromethane	29.9	0.50	0.15	ug/l	25.0		120	46-144			
1,1-Dichloroethane	21.8	0.50	0.14	ug/l	25.0		87	70-130			
1,2-Dichloroethane	26.9	0.50	0.31	ug/l	25.0		108	66-139			
cis-1,2-Dichloroethene	23.4	0.50	0.21	ug/l	25.0		93	70-130			
trans-1,2-Dichloroethene	22.1	0.50	0.29	ug/l	25.0		89	69-127			
1,1-Dichloroethene	25.8	0.50	0.23	ug/l	25.0		103	63-131			
1,2-Dichloropropane	20.6	0.50	0.23	ug/l	25.0		82	70-130			
2,2-Dichloropropane	27.5	1.0	0.18	ug/l	25.0		110	69-139			
1,3-Dichloropropane	21.3	0.50	0.23	ug/l	25.0		85	70-130			
cis-1,3-Dichloropropene	24.0	0.50	0.14	ug/l	25.0		96	70-130			
1,1-Dichloropropene	19.9	0.50	0.20	ug/l	25.0		80	70-130			
trans-1,3-Dichloropropene	24.3	0.50	0.47	ug/l	25.0		97	70-130			
Ethylbenzene	23.4	0.50	0.32	ug/l	25.0		94	70-130			
Hexachlorobutadiene	33.9	1.0	0.28	ug/l	25.0		136	76-145			
2-Hexanone	25.7	5.0	1.5	ug/l	25.0		103	55-150			
Iodomethane	28.6	2.5	0.21	ug/l	25.0		114	74-150			
Isopropylbenzene	26.8	0.50	0.26	ug/l	25.0		107	88-141			
p-Isopropyltoluene	25.5	0.50	0.21	ug/l	25.0		102	70-130			
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	0.22	ug/l	25.0		97	70-130			
Methylene Chloride	22.9	1.0	0.67	ug/l	25.0		91	63-128			
4-Methyl-2-pentanone (MIBK)	22.7	2.5	1.3	ug/l	25.0		91	64-142			
Naphthalene	26.0	2.5	0.51	ug/l	25.0		104	78-143			
n-Propylbenzene	24.6	0.50	0.21	ug/l	25.0		98	70-130			
Styrene	23.4	0.50	0.17	ug/l	25.0		94	70-130			
1,1,1,2-Tetrachloroethane	24.1	0.50	0.35	ug/l	25.0		96	70-130			
1,1,2,2-Tetrachloroethane	22.1	0.50	0.33	ug/l	25.0		88	70-130			
Tetrachloroethene	21.2	0.50	0.18	ug/l	25.0		85	70-130			
Toluene	23.4	0.50	0.28	ug/l	25.0		94	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Analyzed: 09/14/2012 (12I0474-BS1)											
1,2,4-Trichlorobenzene	25.5	1.0	0.32	ug/l	25.0		102	80-137			
1,2,3-Trichlorobenzene	25.8	1.0	0.45	ug/l	25.0		103	79-139			
1,1,1-Trichloroethane	27.4	0.50	0.15	ug/l	25.0		110	71-131			
1,1,2-Trichloroethane	24.2	0.50	0.31	ug/l	25.0		97	70-130			
Trichloroethene	23.2	0.50	0.24	ug/l	25.0		93	70-130			
Trichlorofluoromethane	34.4	0.50	0.15	ug/l	25.0		138	69-150			
1,2,3-Trichloropropane	24.0	2.0	0.78	ug/l	25.0		96	70-130			
1,2,4-Trimethylbenzene	25.3	0.50	0.25	ug/l	25.0		101	70-130			
1,3,5-Trimethylbenzene	26.1	0.50	0.21	ug/l	25.0		105	70-130			
Vinyl Acetate	23.9	2.0	0.81	ug/l	25.0		95	67-148			
Vinyl chloride	26.1	0.50	0.18	ug/l	25.0		104	65-137			
Xylenes, Total	48.1	1.0	0.86	ug/l	50.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.8*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*70-130*			
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
Acetone	31.4	10	7.3	ug/l	25.0		125	38-150	1	35	
Benzene	21.7	0.50	0.12	ug/l	25.0		87	70-130	1	20	
Bromobenzene	23.5	0.50	0.14	ug/l	25.0		94	70-130	0.9	20	
Bromochloromethane	25.2	0.50	0.27	ug/l	25.0		101	70-130	13	20	
Bromodichloromethane	24.7	0.50	0.23	ug/l	25.0		99	70-130	2	20	
Bromoform	27.0	1.0	0.37	ug/l	25.0		108	69-129	6	20	
Bromomethane	29.5	1.0	0.67	ug/l	25.0		118	57-138	8	20	
2-Butanone (MEK)	27.1	5.0	2.2	ug/l	25.0		108	53-150	5	35	
tert-Butylbenzene	25.4	0.50	0.25	ug/l	25.0		102	70-130	5	20	
n-Butylbenzene	23.9	0.50	0.21	ug/l	25.0		95	70-130	3	20	
sec-Butylbenzene	25.0	0.50	0.23	ug/l	25.0		100	70-130	1	20	
Carbon disulfide	27.4	1.0	0.86	ug/l	25.0		109	64-145	4	33	
Carbon tetrachloride	28.6	0.50	0.15	ug/l	25.0		114	70-143	2	20	
Chlorobenzene	23.3	0.50	0.17	ug/l	25.0		93	70-130	0.7	20	
Chloroethane	24.3	0.50	0.25	ug/l	25.0		97	66-131	2	20	

TestAmerica Phoenix

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
Chloroform	24.0	0.50	0.13	ug/l	25.0		96	70-130	4	20	
Chloromethane	28.4	1.0	0.21	ug/l	25.0		114	56-129	2	20	
4-Chlorotoluene	24.4	0.50	0.20	ug/l	25.0		98	70-130	2	20	
2-Chlorotoluene	24.6	0.50	0.17	ug/l	25.0		98	70-130	2	20	
1,2-Dibromo-3-chloropropane	29.2	5.0	0.82	ug/l	25.0		117	63-146	11	22	*V1*
Dibromochloromethane	27.1	0.50	0.22	ug/l	25.0		108	70-130	11	20	
1,2-Dibromoethane (EDB)	24.7	0.50	0.30	ug/l	25.0		99	70-130	11	20	
Dibromomethane	24.0	0.50	0.26	ug/l	25.0		96	70-130	5	20	
1,2-Dichlorobenzene	24.0	0.50	0.22	ug/l	25.0		96	70-130	0.4	20	
1,4-Dichlorobenzene	23.1	0.50	0.17	ug/l	25.0		92	70-130	2	20	
1,3-Dichlorobenzene	23.4	0.50	0.14	ug/l	25.0		94	70-130	5	20	
Dichlorodifluoromethane	31.3	0.50	0.15	ug/l	25.0		125	46-144	5	23	
1,1-Dichloroethane	23.0	0.50	0.14	ug/l	25.0		92	70-130	5	20	
1,2-Dichloroethane	27.8	0.50	0.31	ug/l	25.0		111	66-139	3	20	
cis-1,2-Dichloroethene	24.8	0.50	0.21	ug/l	25.0		99	70-130	6	20	
trans-1,2-Dichloroethene	22.7	0.50	0.29	ug/l	25.0		91	69-127	3	20	
1,1-Dichloroethene	27.1	0.50	0.23	ug/l	25.0		109	63-131	5	22	
1,2-Dichloropropane	21.1	0.50	0.23	ug/l	25.0		84	70-130	2	20	
2,2-Dichloropropane	28.0	1.0	0.18	ug/l	25.0		112	69-139	2	20	
1,3-Dichloropropane	21.3	0.50	0.23	ug/l	25.0		85	70-130	0.2	20	
cis-1,3-Dichloropropene	23.6	0.50	0.14	ug/l	25.0		94	70-130	2	20	
1,1-Dichloropropene	20.1	0.50	0.20	ug/l	25.0		80	70-130	0.8	20	
trans-1,3-Dichloropropene	24.3	0.50	0.47	ug/l	25.0		97	70-130	0.2	20	
Ethylbenzene	23.7	0.50	0.32	ug/l	25.0		95	70-130	1	20	
Hexachlorobutadiene	34.2	1.0	0.28	ug/l	25.0		137	76-145	0.9	20	
2-Hexanone	27.1	5.0	1.5	ug/l	25.0		108	55-150	5	35	
Iodomethane	30.2	2.5	0.21	ug/l	25.0		121	74-150	5	20	
Isopropylbenzene	26.8	0.50	0.26	ug/l	25.0		107	88-141	0.07	20	
p-Isopropyltoluene	25.4	0.50	0.21	ug/l	25.0		102	70-130	0.4	20	
Methyl-tert-butyl Ether (MTBE)	26.0	0.50	0.22	ug/l	25.0		104	70-130	7	20	
Methylene Chloride	23.7	1.0	0.67	ug/l	25.0		95	63-128	4	21	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
LCS Dup Analyzed: 09/14/2012 (12I0474-BSD1)											
4-Methyl-2-pentanone (MIBK)	23.6	2.5	1.3	ug/l	25.0		94	64-142	4	25	
Naphthalene	26.7	2.5	0.51	ug/l	25.0		107	78-143	2	20	
n-Propylbenzene	24.5	0.50	0.21	ug/l	25.0		98	70-130	0.2	20	
Styrene	24.1	0.50	0.17	ug/l	25.0		96	70-130	3	20	
1,1,1,2-Tetrachloroethane	25.0	0.50	0.35	ug/l	25.0		100	70-130	4	20	
1,1,2,2-Tetrachloroethane	23.5	0.50	0.33	ug/l	25.0		94	70-130	6	20	
Tetrachloroethene	21.5	0.50	0.18	ug/l	25.0		86	70-130	1	20	
Toluene	23.3	0.50	0.28	ug/l	25.0		93	70-130	0.4	20	
1,2,4-Trichlorobenzene	25.1	1.0	0.32	ug/l	25.0		101	80-137	1	20	
1,2,3-Trichlorobenzene	25.7	1.0	0.45	ug/l	25.0		103	79-139	0.5	20	
1,1,1-Trichloroethane	28.2	0.50	0.15	ug/l	25.0		113	71-131	3	20	
1,1,2-Trichloroethane	25.3	0.50	0.31	ug/l	25.0		101	70-130	4	20	
Trichloroethene	23.5	0.50	0.24	ug/l	25.0		94	70-130	1	20	
Trichlorofluoromethane	35.7	0.50	0.15	ug/l	25.0		143	69-150	4	22	
1,2,3-Trichloropropane	28.3	2.0	0.78	ug/l	25.0		113	70-130	16	20	
1,2,4-Trimethylbenzene	25.2	0.50	0.25	ug/l	25.0		101	70-130	0.2	20	
1,3,5-Trimethylbenzene	25.7	0.50	0.21	ug/l	25.0		103	70-130	2	20	
Vinyl Acetate	24.3	2.0	0.81	ug/l	25.0		97	67-148	2	22	
Vinyl chloride	28.1	0.50	0.18	ug/l	25.0		112	65-137	7	20	
Xylenes, Total	48.9	1.0	0.86	ug/l	50.0		98	70-130	1	20	
Surrogate: 4-Bromofluorobenzene	*26.1*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*26.9*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*70-130*			
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)						**Source: PVI0635-03**					
Acetone	16.7	10	7.3	ug/l	25.0	ND	67	29-139			
Benzene	22.0	0.50	0.12	ug/l	25.0	ND	88	68-131			
Bromobenzene	24.3	0.50	0.14	ug/l	25.0	ND	97	70-130			
Bromochloromethane	23.8	0.50	0.27	ug/l	25.0	ND	95	64-132			
Bromodichloromethane	24.1	0.50	0.23	ug/l	25.0	ND	97	63-138			
Bromoform	26.4	1.0	0.37	ug/l	25.0	ND	106	60-128			
Bromomethane	28.1	1.0	0.67	ug/l	25.0	ND	112	47-144			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)					**Source: PVI0635-03**						
2-Butanone (MEK)	21.5	5.0	2.2	ug/l	25.0	ND	86	31-143			
tert-Butylbenzene	26.3	0.50	0.25	ug/l	25.0	ND	105	74-135			
n-Butylbenzene	23.2	0.50	0.21	ug/l	25.0	ND	93	69-140			
sec-Butylbenzene	25.1	0.50	0.23	ug/l	25.0	ND	100	72-136			
Carbon disulfide	27.4	1.0	0.86	ug/l	25.0	ND	109	45-150			
Carbon tetrachloride	28.3	0.50	0.15	ug/l	25.0	ND	113	65-147			
Chlorobenzene	24.5	0.50	0.17	ug/l	25.0	ND	98	70-130			
Chloroethane	25.5	0.50	0.25	ug/l	25.0	ND	102	57-139			
Chloroform	24.0	0.50	0.13	ug/l	25.0	0.530	94	63-131			
Chloromethane	28.1	1.0	0.21	ug/l	25.0	ND	112	47-134			
4-Chlorotoluene	24.9	0.50	0.20	ug/l	25.0	ND	100	70-130			
2-Chlorotoluene	25.0	0.50	0.17	ug/l	25.0	ND	100	71-131			
1,2-Dibromo-3-chloropropane	27.1	5.0	0.82	ug/l	25.0	ND	109	53-145			*V1*
Dibromochloromethane	24.9	0.50	0.22	ug/l	25.0	ND	100	65-134			
1,2-Dibromoethane (EDB)	23.1	0.50	0.30	ug/l	25.0	ND	92	70-130			
Dibromomethane	23.7	0.50	0.26	ug/l	25.0	ND	95	66-136			
1,2-Dichlorobenzene	24.0	0.50	0.22	ug/l	25.0	ND	96	70-130			
1,4-Dichlorobenzene	23.0	0.50	0.17	ug/l	25.0	ND	92	70-130			
1,3-Dichlorobenzene	23.4	0.50	0.14	ug/l	25.0	ND	94	70-130			
Dichlorodifluoromethane	30.3	0.50	0.15	ug/l	25.0	ND	121	40-148			
1,1-Dichloroethane	23.0	0.50	0.14	ug/l	25.0	ND	92	62-130			
1,2-Dichloroethane	26.9	0.50	0.31	ug/l	25.0	ND	108	54-147			
cis-1,2-Dichloroethene	23.6	0.50	0.21	ug/l	25.0	ND	94	65-127			
trans-1,2-Dichloroethene	22.6	0.50	0.29	ug/l	25.0	ND	91	62-131			
1,1-Dichloroethene	27.0	0.50	0.23	ug/l	25.0	ND	108	57-137			
1,2-Dichloropropane	20.4	0.50	0.23	ug/l	25.0	ND	82	68-126			
2,2-Dichloropropane	28.4	1.0	0.18	ug/l	25.0	ND	114	60-146			
1,3-Dichloropropane	22.0	0.50	0.23	ug/l	25.0	ND	88	68-129			
cis-1,3-Dichloropropene	23.0	0.50	0.14	ug/l	25.0	ND	92	63-135			
1,1-Dichloropropene	19.7	0.50	0.20	ug/l	25.0	ND	79	64-134			
trans-1,3-Dichloropropene	24.0	0.50	0.47	ug/l	25.0	ND	96	58-136			

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Analyzed: 09/14/2012 (12I0474-MS1)						**Source: PVI0635-03**					
Ethylbenzene	24.2	0.50	0.32	ug/l	25.0	ND	97	74-134			
Hexachlorobutadiene	33.1	1.0	0.28	ug/l	25.0	ND	132	69-150			
2-Hexanone	17.3	5.0	1.5	ug/l	25.0	ND	69	40-142			
Iodomethane	31.0	2.5	0.21	ug/l	25.0	ND	124	53-150			
Isopropylbenzene	27.1	0.50	0.26	ug/l	25.0	ND	108	80-146			
p-Isopropyltoluene	25.2	0.50	0.21	ug/l	25.0	ND	101	70-133			
Methyl-tert-butyl Ether (MTBE)	24.6	0.50	0.22	ug/l	25.0	ND	99	67-138			
Methylene Chloride	23.1	1.0	0.67	ug/l	25.0	ND	92	55-133			
4-Methyl-2-pentanone (MIBK)	20.2	2.5	1.3	ug/l	25.0	ND	81	52-143			
Naphthalene	25.1	2.5	0.51	ug/l	25.0	ND	101	67-146			
n-Propylbenzene	24.4	0.50	0.21	ug/l	25.0	ND	98	74-140			
Styrene	24.5	0.50	0.17	ug/l	25.0	ND	98	43-144			
1,1,1,2-Tetrachloroethane	25.9	0.50	0.35	ug/l	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	21.8	0.50	0.33	ug/l	25.0	ND	87	63-137			
Tetrachloroethene	22.6	0.50	0.18	ug/l	25.0	0.950	87	67-131			
Toluene	23.0	0.50	0.28	ug/l	25.0	ND	92	65-138			
1,2,4-Trichlorobenzene	25.5	1.0	0.32	ug/l	25.0	ND	102	74-138			
1,2,3-Trichlorobenzene	25.3	1.0	0.45	ug/l	25.0	ND	101	74-139			
1,1,1-Trichloroethane	28.5	0.50	0.15	ug/l	25.0	ND	114	64-138			
1,1,2-Trichloroethane	23.8	0.50	0.31	ug/l	25.0	ND	95	63-132			
Trichloroethene	24.2	0.50	0.24	ug/l	25.0	1.46	91	66-132			
Trichlorofluoromethane	35.0	0.50	0.15	ug/l	25.0	ND	140	62-150			
1,2,3-Trichloropropane	23.4	2.0	0.78	ug/l	25.0	ND	94	68-130			
1,2,4-Trimethylbenzene	25.3	0.50	0.25	ug/l	25.0	ND	101	63-135			
1,3,5-Trimethylbenzene	26.0	0.50	0.21	ug/l	25.0	ND	104	66-137			
Vinyl Acetate	24.6	2.0	0.81	ug/l	25.0	ND	98	47-150			
Vinyl chloride	27.0	0.50	0.18	ug/l	25.0	ND	108	55-146			
Xylenes, Total	48.6	1.0	0.86	ug/l	50.0	ND	97	68-131			
Surrogate: 4-Bromofluorobenzene	*25.9*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*108*	*70-130*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*70-130*			

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
Acetone	17.8	10	7.3	ug/l	25.0	ND	71	29-139	6	35	
Benzene	22.2	0.50	0.12	ug/l	25.0	ND	89	68-131	0.5	32	
Bromobenzene	24.8	0.50	0.14	ug/l	25.0	ND	99	70-130	2	28	
Bromochloromethane	22.9	0.50	0.27	ug/l	25.0	ND	92	64-132	4	35	
Bromodichloromethane	25.6	0.50	0.23	ug/l	25.0	ND	102	63-138	6	31	
Bromoform	25.1	1.0	0.37	ug/l	25.0	ND	101	60-128	5	31	
Bromomethane	27.8	1.0	0.67	ug/l	25.0	ND	111	47-144	1	35	
2-Butanone (MEK)	17.7	5.0	2.2	ug/l	25.0	ND	71	31-143	19	35	
tert-Butylbenzene	25.9	0.50	0.25	ug/l	25.0	ND	104	74-135	2	32	
n-Butylbenzene	23.3	0.50	0.21	ug/l	25.0	ND	93	69-140	0.09	32	
sec-Butylbenzene	24.1	0.50	0.23	ug/l	25.0	ND	96	72-136	4	33	
Carbon disulfide	26.8	1.0	0.86	ug/l	25.0	ND	107	45-150	2	35	
Carbon tetrachloride	28.8	0.50	0.15	ug/l	25.0	ND	115	65-147	2	35	
Chlorobenzene	23.2	0.50	0.17	ug/l	25.0	ND	93	70-130	5	30	
Chloroethane	25.3	0.50	0.25	ug/l	25.0	ND	101	57-139	0.9	35	
Chloroform	23.2	0.50	0.13	ug/l	25.0	0.530	91	63-131	4	33	
Chloromethane	26.1	1.0	0.21	ug/l	25.0	ND	104	47-134	7	35	
4-Chlorotoluene	24.4	0.50	0.20	ug/l	25.0	ND	98	70-130	2	28	
2-Chlorotoluene	25.3	0.50	0.17	ug/l	25.0	ND	101	71-131	1	29	
1,2-Dibromo-3-chloropropane	26.2	5.0	0.82	ug/l	25.0	ND	105	53-145	3	35	*V1*
Dibromochloromethane	25.6	0.50	0.22	ug/l	25.0	ND	102	65-134	3	33	
1,2-Dibromoethane (EDB)	22.0	0.50	0.30	ug/l	25.0	ND	88	70-130	5	33	
Dibromomethane	22.8	0.50	0.26	ug/l	25.0	ND	91	66-136	4	35	
1,2-Dichlorobenzene	24.4	0.50	0.22	ug/l	25.0	ND	98	70-130	2	27	
1,4-Dichlorobenzene	23.7	0.50	0.17	ug/l	25.0	ND	95	70-130	3	26	
1,3-Dichlorobenzene	23.9	0.50	0.14	ug/l	25.0	ND	95	70-130	2	28	
Dichlorodifluoromethane	28.5	0.50	0.15	ug/l	25.0	ND	114	40-148	6	35	
1,1-Dichloroethane	21.9	0.50	0.14	ug/l	25.0	ND	88	62-130	5	34	
1,2-Dichloroethane	25.6	0.50	0.31	ug/l	25.0	ND	102	54-147	5	35	
cis-1,2-Dichloroethene	22.5	0.50	0.21	ug/l	25.0	ND	90	65-127	5	34	
trans-1,2-Dichloroethene	22.5	0.50	0.29	ug/l	25.0	ND	90	62-131	0.5	35	

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APS-Corporate
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Phoenix, AZ 85072-3999
Attention: Judy Heywood

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Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
1,1-Dichloroethene	26.6	0.50	0.23	ug/l	25.0	ND	106	57-137	2	35	
1,2-Dichloropropane	21.6	0.50	0.23	ug/l	25.0	ND	87	68-126	6	32	
2,2-Dichloropropane	26.6	1.0	0.18	ug/l	25.0	ND	106	60-146	7	35	
1,3-Dichloropropane	21.2	0.50	0.23	ug/l	25.0	ND	85	68-129	4	33	
cis-1,3-Dichloropropene	23.4	0.50	0.14	ug/l	25.0	ND	93	63-135	1	35	
1,1-Dichloropropene	19.0	0.50	0.20	ug/l	25.0	ND	76	64-134	4	34	
trans-1,3-Dichloropropene	24.7	0.50	0.47	ug/l	25.0	ND	99	58-136	3	35	
Ethylbenzene	23.6	0.50	0.32	ug/l	25.0	ND	94	74-134	3	32	
Hexachlorobutadiene	34.2	1.0	0.28	ug/l	25.0	ND	137	69-150	3	32	
2-Hexanone	15.8	5.0	1.5	ug/l	25.0	ND	63	40-142	9	35	
Iodomethane	30.0	2.5	0.21	ug/l	25.0	ND	120	53-150	3	35	
Isopropylbenzene	26.4	0.50	0.26	ug/l	25.0	ND	106	80-146	2	32	
p-Isopropyltoluene	25.7	0.50	0.21	ug/l	25.0	ND	103	70-133	2	32	
Methyl-tert-butyl Ether (MTBE)	23.8	0.50	0.22	ug/l	25.0	ND	95	67-138	4	21	
Methylene Chloride	24.5	1.0	0.67	ug/l	25.0	ND	98	55-133	6	35	
4-Methyl-2-pentanone (MIBK)	21.0	2.5	1.3	ug/l	25.0	ND	84	52-143	4	35	
Naphthalene	24.5	2.5	0.51	ug/l	25.0	ND	98	67-146	3	29	
n-Propylbenzene	24.1	0.50	0.21	ug/l	25.0	ND	96	74-140	1	32	
Styrene	23.9	0.50	0.17	ug/l	25.0	ND	95	43-144	3	35	
1,1,1,2-Tetrachloroethane	24.6	0.50	0.35	ug/l	25.0	ND	98	70-130	5	30	
1,1,2,2-Tetrachloroethane	21.5	0.50	0.33	ug/l	25.0	ND	86	63-137	1	32	
Tetrachloroethene	23.2	0.50	0.18	ug/l	25.0	0.950	89	67-131	3	31	
Toluene	23.5	0.50	0.28	ug/l	25.0	ND	94	65-138	2	33	
1,2,4-Trichlorobenzene	26.8	1.0	0.32	ug/l	25.0	ND	107	74-138	5	26	
1,2,3-Trichlorobenzene	26.6	1.0	0.45	ug/l	25.0	ND	106	74-139	5	26	
1,1,1-Trichloroethane	27.6	0.50	0.15	ug/l	25.0	ND	110	64-138	3	35	
1,1,2-Trichloroethane	23.2	0.50	0.31	ug/l	25.0	ND	93	63-132	3	35	
Trichloroethene	24.5	0.50	0.24	ug/l	25.0	1.46	92	66-132	1	29	
Trichlorofluoromethane	33.8	0.50	0.15	ug/l	25.0	ND	135	62-150	3	35	
1,2,3-Trichloropropane	24.9	2.0	0.78	ug/l	25.0	ND	100	68-130	6	32	
1,2,4-Trimethylbenzene	25.8	0.50	0.25	ug/l	25.0	ND	103	63-135	2	31	

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Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0474 Extracted: 09/14/12											
Matrix Spike Dup Analyzed: 09/14/2012 (12I0474-MSD1)						**Source: PVI0635-03**					
1,3,5-Trimethylbenzene	26.1	0.50	0.21	ug/l	25.0	ND	104	66-137	0.6	30	
Vinyl Acetate	22.1	2.0	0.81	ug/l	25.0	ND	88	47-150	11	35	
Vinyl chloride	25.4	0.50	0.18	ug/l	25.0	ND	102	55-146	6	35	
Xylenes, Total	47.5	1.0	0.86	ug/l	50.0	ND	95	68-131	2	31	
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*26.3*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			
Batch: 12I0539 Extracted: 09/16/12											
Blank Analyzed: 09/16/2012 (12I0539-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							
Dibromochloromethane	ND	0.50	0.22	ug/l							

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

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Sampled: 09/12/12
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Blank Analyzed: 09/16/2012 (12I0539-BLK1)											
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							*V1*
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Blank Analyzed: 09/16/2012 (12I0539-BLK1)											
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*70-130*			
LCS Analyzed: 09/16/2012 (12I0539-BS1)											
Acetone	33.7	10	7.3	ug/l	25.0		135	38-150			
Benzene	20.1	0.50	0.12	ug/l	25.0		80	70-130			
Bromobenzene	22.1	0.50	0.14	ug/l	25.0		88	70-130			
Bromochloromethane	21.0	0.50	0.27	ug/l	25.0		84	70-130			
Bromodichloromethane	22.9	0.50	0.23	ug/l	25.0		92	70-130			
Bromoform	25.2	1.0	0.37	ug/l	25.0		101	69-129			
Bromomethane	25.0	1.0	0.67	ug/l	25.0		100	57-138			
2-Butanone (MEK)	29.1	5.0	2.2	ug/l	25.0		116	53-150			
tert-Butylbenzene	25.0	0.50	0.25	ug/l	25.0		100	70-130			
n-Butylbenzene	22.7	0.50	0.21	ug/l	25.0		91	70-130			
sec-Butylbenzene	24.4	0.50	0.23	ug/l	25.0		98	70-130			
Carbon disulfide	24.3	1.0	0.86	ug/l	25.0		97	64-145			
Carbon tetrachloride	26.4	0.50	0.15	ug/l	25.0		106	70-143			

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Phoenix, AZ 85072-3999
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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
LCS Analyzed: 09/16/2012 (12I0539-BS1)											
Chlorobenzene	21.6	0.50	0.17	ug/l	25.0		86	70-130			
Chloroethane	23.2	0.50	0.25	ug/l	25.0		93	66-131			
Chloroform	21.4	0.50	0.13	ug/l	25.0		86	70-130			
Chloromethane	24.7	1.0	0.21	ug/l	25.0		99	56-129			
4-Chlorotoluene	23.0	0.50	0.20	ug/l	25.0		92	70-130			
2-Chlorotoluene	23.1	0.50	0.17	ug/l	25.0		92	70-130			
1,2-Dibromo-3-chloropropane	22.8	5.0	0.82	ug/l	25.0		91	63-146			
Dibromochloromethane	22.9	0.50	0.22	ug/l	25.0		92	70-130			
1,2-Dibromoethane (EDB)	20.9	0.50	0.30	ug/l	25.0		84	70-130			
Dibromomethane	22.1	0.50	0.26	ug/l	25.0		88	70-130			
1,2-Dichlorobenzene	22.1	0.50	0.22	ug/l	25.0		88	70-130			
1,4-Dichlorobenzene	21.0	0.50	0.17	ug/l	25.0		84	70-130			
1,3-Dichlorobenzene	22.3	0.50	0.14	ug/l	25.0		89	70-130			
Dichlorodifluoromethane	27.7	0.50	0.15	ug/l	25.0		111	46-144			
1,1-Dichloroethane	19.9	0.50	0.14	ug/l	25.0		79	70-130			
1,2-Dichloroethane	25.4	0.50	0.31	ug/l	25.0		102	66-139			
cis-1,2-Dichloroethene	20.8	0.50	0.21	ug/l	25.0		83	70-130			
trans-1,2-Dichloroethene	21.7	0.50	0.29	ug/l	25.0		87	69-127			
1,1-Dichloroethene	25.2	0.50	0.23	ug/l	25.0		101	63-131			
1,2-Dichloropropane	18.8	0.50	0.23	ug/l	25.0		75	70-130			
2,2-Dichloropropane	25.6	1.0	0.18	ug/l	25.0		102	69-139			
1,3-Dichloropropane	20.1	0.50	0.23	ug/l	25.0		80	70-130			
cis-1,3-Dichloropropene	22.0	0.50	0.14	ug/l	25.0		88	70-130			
1,1-Dichloropropene	18.3	0.50	0.20	ug/l	25.0		73	70-130			
trans-1,3-Dichloropropene	22.5	0.50	0.47	ug/l	25.0		90	70-130			
Ethylbenzene	22.1	0.50	0.32	ug/l	25.0		88	70-130			
Hexachlorobutadiene	34.7	1.0	0.28	ug/l	25.0		139	76-145			*V1*
2-Hexanone	23.4	5.0	1.5	ug/l	25.0		94	55-150			
Iodomethane	27.0	2.5	0.21	ug/l	25.0		108	74-150			
Isopropylbenzene	25.6	0.50	0.26	ug/l	25.0		102	88-141			
p-Isopropyltoluene	24.8	0.50	0.21	ug/l	25.0		99	70-130			

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APS-Corporate
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Phoenix, AZ 85072-3999
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Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
LCS Analyzed: 09/16/2012 (12I0539-BS1)											
Methyl-tert-butyl Ether (MTBE)	22.1	0.50	0.22	ug/l	25.0		88	70-130			
Methylene Chloride	22.4	1.0	0.67	ug/l	25.0		89	63-128			
4-Methyl-2-pentanone (MIBK)	18.9	2.5	1.3	ug/l	25.0		76	64-142			
Naphthalene	24.6	2.5	0.51	ug/l	25.0		99	78-143			
n-Propylbenzene	23.2	0.50	0.21	ug/l	25.0		93	70-130			
Styrene	22.6	0.50	0.17	ug/l	25.0		91	70-130			
1,1,1,2-Tetrachloroethane	22.4	0.50	0.35	ug/l	25.0		90	70-130			
1,1,2,2-Tetrachloroethane	21.5	0.50	0.33	ug/l	25.0		86	70-130			
Tetrachloroethene	20.6	0.50	0.18	ug/l	25.0		82	70-130			
Toluene	22.3	0.50	0.28	ug/l	25.0		89	70-130			
1,2,4-Trichlorobenzene	25.0	1.0	0.32	ug/l	25.0		100	80-137			
1,2,3-Trichlorobenzene	24.8	1.0	0.45	ug/l	25.0		99	79-139			
1,1,1-Trichloroethane	25.6	0.50	0.15	ug/l	25.0		102	71-131			
1,1,2-Trichloroethane	21.4	0.50	0.31	ug/l	25.0		86	70-130			
Trichloroethene	22.0	0.50	0.24	ug/l	25.0		88	70-130			
Trichlorofluoromethane	31.7	0.50	0.15	ug/l	25.0		127	69-150			
1,2,3-Trichloropropane	23.5	2.0	0.78	ug/l	25.0		94	70-130			
1,2,4-Trimethylbenzene	23.8	0.50	0.25	ug/l	25.0		95	70-130			
1,3,5-Trimethylbenzene	25.5	0.50	0.21	ug/l	25.0		102	70-130			
Vinyl Acetate	18.7	2.0	0.81	ug/l	25.0		75	67-148			
Vinyl chloride	23.8	0.50	0.18	ug/l	25.0		95	65-137			
Xylenes, Total	44.8	1.0	0.86	ug/l	50.0		90	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*70-130*			
LCS Dup Analyzed: 09/16/2012 (12I0539-BSD1)											
Acetone	31.2	10	7.3	ug/l	25.0		125	38-150	8	35	
Benzene	20.5	0.50	0.12	ug/l	25.0		82	70-130	2	20	
Bromobenzene	22.1	0.50	0.14	ug/l	25.0		88	70-130	0.2	20	
Bromochloromethane	21.5	0.50	0.27	ug/l	25.0		86	70-130	2	20	
Bromodichloromethane	22.6	0.50	0.23	ug/l	25.0		90	70-130	2	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
LCS Dup Analyzed: 09/16/2012 (12I0539-BSD1)											
Bromoform	23.7	1.0	0.37	ug/l	25.0		95	69-129	6	20	
Bromomethane	25.8	1.0	0.67	ug/l	25.0		103	57-138	3	20	
2-Butanone (MEK)	29.5	5.0	2.2	ug/l	25.0		118	53-150	2	35	
tert-Butylbenzene	25.7	0.50	0.25	ug/l	25.0		103	70-130	3	20	
n-Butylbenzene	23.3	0.50	0.21	ug/l	25.0		93	70-130	3	20	
sec-Butylbenzene	24.2	0.50	0.23	ug/l	25.0		97	70-130	1	20	
Carbon disulfide	25.2	1.0	0.86	ug/l	25.0		101	64-145	4	33	
Carbon tetrachloride	27.4	0.50	0.15	ug/l	25.0		109	70-143	4	20	
Chlorobenzene	21.9	0.50	0.17	ug/l	25.0		88	70-130	1	20	
Chloroethane	23.4	0.50	0.25	ug/l	25.0		93	66-131	0.6	20	
Chloroform	22.0	0.50	0.13	ug/l	25.0		88	70-130	2	20	
Chloromethane	24.3	1.0	0.21	ug/l	25.0		97	56-129	2	20	
4-Chlorotoluene	23.2	0.50	0.20	ug/l	25.0		93	70-130	0.8	20	
2-Chlorotoluene	23.6	0.50	0.17	ug/l	25.0		94	70-130	2	20	
1,2-Dibromo-3-chloropropane	29.2	5.0	0.82	ug/l	25.0		117	63-146	24	22	*R6*
Dibromochloromethane	23.9	0.50	0.22	ug/l	25.0		96	70-130	4	20	
1,2-Dibromoethane (EDB)	21.8	0.50	0.30	ug/l	25.0		87	70-130	4	20	
Dibromomethane	20.8	0.50	0.26	ug/l	25.0		83	70-130	6	20	
1,2-Dichlorobenzene	21.5	0.50	0.22	ug/l	25.0		86	70-130	2	20	
1,4-Dichlorobenzene	21.4	0.50	0.17	ug/l	25.0		86	70-130	2	20	
1,3-Dichlorobenzene	21.8	0.50	0.14	ug/l	25.0		87	70-130	2	20	
Dichlorodifluoromethane	27.7	0.50	0.15	ug/l	25.0		111	46-144	0.2	23	
1,1-Dichloroethane	21.0	0.50	0.14	ug/l	25.0		84	70-130	5	20	
1,2-Dichloroethane	24.9	0.50	0.31	ug/l	25.0		100	66-139	2	20	
cis-1,2-Dichloroethene	22.8	0.50	0.21	ug/l	25.0		91	70-130	9	20	
trans-1,2-Dichloroethene	22.2	0.50	0.29	ug/l	25.0		89	69-127	2	20	
1,1-Dichloroethene	25.3	0.50	0.23	ug/l	25.0		101	63-131	0.1	22	
1,2-Dichloropropane	17.8	0.50	0.23	ug/l	25.0		71	70-130	5	20	
2,2-Dichloropropane	26.8	1.0	0.18	ug/l	25.0		107	69-139	5	20	
1,3-Dichloropropane	18.9	0.50	0.23	ug/l	25.0		76	70-130	6	20	
cis-1,3-Dichloropropene	20.9	0.50	0.14	ug/l	25.0		83	70-130	5	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
LCS Dup Analyzed: 09/16/2012 (12I0539-BSD1)											
1,1-Dichloropropene	18.7	0.50	0.20	ug/l	25.0		75	70-130	2	20	
trans-1,3-Dichloropropene	20.4	0.50	0.47	ug/l	25.0		82	70-130	10	20	
Ethylbenzene	21.9	0.50	0.32	ug/l	25.0		88	70-130	0.9	20	
Hexachlorobutadiene	33.9	1.0	0.28	ug/l	25.0		136	76-145	2	20	*V1*
2-Hexanone	25.0	5.0	1.5	ug/l	25.0		100	55-150	7	35	
Iodomethane	28.1	2.5	0.21	ug/l	25.0		112	74-150	4	20	
Isopropylbenzene	25.7	0.50	0.26	ug/l	25.0		103	88-141	0.6	20	
p-Isopropyltoluene	24.4	0.50	0.21	ug/l	25.0		98	70-130	1	20	
Methyl-tert-butyl Ether (MTBE)	22.8	0.50	0.22	ug/l	25.0		91	70-130	3	20	
Methylene Chloride	22.6	1.0	0.67	ug/l	25.0		90	63-128	1	21	
4-Methyl-2-pentanone (MIBK)	20.0	2.5	1.3	ug/l	25.0		80	64-142	6	25	
Naphthalene	24.4	2.5	0.51	ug/l	25.0		98	78-143	0.9	20	
n-Propylbenzene	23.1	0.50	0.21	ug/l	25.0		92	70-130	0.6	20	
Styrene	22.2	0.50	0.17	ug/l	25.0		89	70-130	2	20	
1,1,1,2-Tetrachloroethane	22.0	0.50	0.35	ug/l	25.0		88	70-130	2	20	
1,1,2,2-Tetrachloroethane	20.6	0.50	0.33	ug/l	25.0		83	70-130	4	20	
Tetrachloroethene	21.0	0.50	0.18	ug/l	25.0		84	70-130	2	20	
Toluene	21.7	0.50	0.28	ug/l	25.0		87	70-130	3	20	
1,2,4-Trichlorobenzene	24.1	1.0	0.32	ug/l	25.0		97	80-137	4	20	
1,2,3-Trichlorobenzene	25.1	1.0	0.45	ug/l	25.0		100	79-139	1	20	
1,1,1-Trichloroethane	27.0	0.50	0.15	ug/l	25.0		108	71-131	5	20	
1,1,2-Trichloroethane	21.6	0.50	0.31	ug/l	25.0		86	70-130	0.7	20	
Trichloroethene	21.7	0.50	0.24	ug/l	25.0		87	70-130	1	20	
Trichlorofluoromethane	33.5	0.50	0.15	ug/l	25.0		134	69-150	6	22	
1,2,3-Trichloropropane	23.0	2.0	0.78	ug/l	25.0		92	70-130	2	20	
1,2,4-Trimethylbenzene	24.0	0.50	0.25	ug/l	25.0		96	70-130	0.9	20	
1,3,5-Trimethylbenzene	24.2	0.50	0.21	ug/l	25.0		97	70-130	5	20	
Vinyl Acetate	18.7	2.0	0.81	ug/l	25.0		75	67-148	0.2	22	
Vinyl chloride	24.8	0.50	0.18	ug/l	25.0		99	65-137	4	20	
Xylenes, Total	45.0	1.0	0.86	ug/l	50.0		90	70-130	0.4	20	
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
LCS Dup Analyzed: 09/16/2012 (12I0539-BSD1)											
Surrogate: Dibromofluoromethane	*25.9*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*70-130*			
Matrix Spike Analyzed: 09/16/2012 (12I0539-MS1)						**Source: PVI0717-03**					
Acetone	17.4	10	7.3	ug/l	25.0	ND	70	29-139			
Benzene	22.8	0.50	0.12	ug/l	25.0	ND	91	68-131			
Bromobenzene	24.3	0.50	0.14	ug/l	25.0	ND	97	70-130			
Bromochloromethane	24.6	0.50	0.27	ug/l	25.0	ND	99	64-132			
Bromodichloromethane	26.3	0.50	0.23	ug/l	25.0	ND	105	63-138			
Bromoform	26.0	1.0	0.37	ug/l	25.0	ND	104	60-128			
Bromomethane	27.2	1.0	0.67	ug/l	25.0	ND	109	47-144			
2-Butanone (MEK)	20.1	5.0	2.2	ug/l	25.0	ND	80	31-143			
tert-Butylbenzene	25.5	0.50	0.25	ug/l	25.0	ND	102	74-135			
n-Butylbenzene	23.0	0.50	0.21	ug/l	25.0	ND	92	69-140			
sec-Butylbenzene	24.4	0.50	0.23	ug/l	25.0	ND	98	72-136			
Carbon disulfide	26.8	1.0	0.86	ug/l	25.0	ND	107	45-150			
Carbon tetrachloride	28.5	0.50	0.15	ug/l	25.0	ND	114	65-147			
Chlorobenzene	23.1	0.50	0.17	ug/l	25.0	ND	92	70-130			
Chloroethane	25.9	0.50	0.25	ug/l	25.0	ND	104	57-139			
Chloroform	25.7	0.50	0.13	ug/l	25.0	0.820	100	63-131			
Chloromethane	27.0	1.0	0.21	ug/l	25.0	ND	108	47-134			
4-Chlorotoluene	24.3	0.50	0.20	ug/l	25.0	ND	97	70-130			
2-Chlorotoluene	24.3	0.50	0.17	ug/l	25.0	ND	97	71-131			
1,2-Dibromo-3-chloropropane	27.7	5.0	0.82	ug/l	25.0	ND	111	53-145			
Dibromochloromethane	25.3	0.50	0.22	ug/l	25.0	ND	101	65-134			
1,2-Dibromoethane (EDB)	23.2	0.50	0.30	ug/l	25.0	ND	93	70-130			
Dibromomethane	24.8	0.50	0.26	ug/l	25.0	ND	99	66-136			
1,2-Dichlorobenzene	24.0	0.50	0.22	ug/l	25.0	ND	96	70-130			
1,4-Dichlorobenzene	23.2	0.50	0.17	ug/l	25.0	ND	93	70-130			
1,3-Dichlorobenzene	23.2	0.50	0.14	ug/l	25.0	ND	93	70-130			
Dichlorodifluoromethane	28.4	0.50	0.15	ug/l	25.0	ND	114	40-148			
1,1-Dichloroethane	23.6	0.50	0.14	ug/l	25.0	ND	94	62-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Matrix Spike Analyzed: 09/16/2012 (12I0539-MS1)					**Source: PVI0717-03**						
1,2-Dichloroethane	28.5	0.50	0.31	ug/l	25.0	ND	114	54-147			
cis-1,2-Dichloroethene	24.0	0.50	0.21	ug/l	25.0	ND	96	65-127			
trans-1,2-Dichloroethene	22.8	0.50	0.29	ug/l	25.0	ND	91	62-131			
1,1-Dichloroethene	27.2	0.50	0.23	ug/l	25.0	ND	109	57-137			
1,2-Dichloropropane	22.0	0.50	0.23	ug/l	25.0	ND	88	68-126			
2,2-Dichloropropane	27.6	1.0	0.18	ug/l	25.0	ND	110	60-146			
1,3-Dichloropropane	21.6	0.50	0.23	ug/l	25.0	ND	86	68-129			
cis-1,3-Dichloropropene	24.0	0.50	0.14	ug/l	25.0	ND	96	63-135			
1,1-Dichloropropene	19.5	0.50	0.20	ug/l	25.0	ND	78	64-134			
trans-1,3-Dichloropropene	24.7	0.50	0.47	ug/l	25.0	ND	99	58-136			
Ethylbenzene	23.3	0.50	0.32	ug/l	25.0	ND	93	74-134			
Hexachlorobutadiene	32.9	1.0	0.28	ug/l	25.0	ND	132	69-150			*V1*
2-Hexanone	17.6	5.0	1.5	ug/l	25.0	ND	71	40-142			
Iodomethane	30.6	2.5	0.21	ug/l	25.0	ND	123	53-150			
Isopropylbenzene	26.2	0.50	0.26	ug/l	25.0	ND	105	80-146			
p-Isopropyltoluene	24.2	0.50	0.21	ug/l	25.0	ND	97	70-133			
Methyl-tert-butyl Ether (MTBE)	25.1	0.50	0.22	ug/l	25.0	ND	100	67-138			
Methylene Chloride	25.9	1.0	0.67	ug/l	25.0	ND	104	55-133			
4-Methyl-2-pentanone (MIBK)	20.2	2.5	1.3	ug/l	25.0	ND	81	52-143			
Naphthalene	25.7	2.5	0.51	ug/l	25.0	ND	103	67-146			
n-Propylbenzene	24.1	0.50	0.21	ug/l	25.0	ND	97	74-140			
Styrene	23.6	0.50	0.17	ug/l	25.0	ND	94	43-144			
1,1,1,2-Tetrachloroethane	25.3	0.50	0.35	ug/l	25.0	ND	101	70-130			
1,1,2,2-Tetrachloroethane	22.9	0.50	0.33	ug/l	25.0	ND	92	63-137			
Tetrachloroethene	22.2	0.50	0.18	ug/l	25.0	0.590	87	67-131			
Toluene	24.3	0.50	0.28	ug/l	25.0	ND	97	65-138			
1,2,4-Trichlorobenzene	25.6	1.0	0.32	ug/l	25.0	ND	102	74-138			
1,2,3-Trichlorobenzene	26.2	1.0	0.45	ug/l	25.0	ND	105	74-139			
1,1,1-Trichloroethane	28.7	0.50	0.15	ug/l	25.0	ND	115	64-138			
1,1,2-Trichloroethane	25.4	0.50	0.31	ug/l	25.0	ND	102	63-132			
Trichloroethene	24.0	0.50	0.24	ug/l	25.0	0.320	95	66-132			

TestAmerica Phoenix

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Project Manager

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Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Matrix Spike Analyzed: 09/16/2012 (12I0539-MS1)						**Source: PVI0717-03**					
Trichlorofluoromethane	34.0	0.50	0.15	ug/l	25.0	ND	136	62-150			
1,2,3-Trichloropropane	26.4	2.0	0.78	ug/l	25.0	ND	106	68-130			
1,2,4-Trimethylbenzene	24.6	0.50	0.25	ug/l	25.0	ND	98	63-135			
1,3,5-Trimethylbenzene	25.8	0.50	0.21	ug/l	25.0	ND	103	66-137			
Vinyl Acetate	22.8	2.0	0.81	ug/l	25.0	ND	91	47-150			
Vinyl chloride	25.2	0.50	0.18	ug/l	25.0	ND	101	55-146			
Xylenes, Total	47.8	1.0	0.86	ug/l	50.0	ND	96	68-131			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			
Matrix Spike Dup Analyzed: 09/16/2012 (12I0539-MSD1)						**Source: PVI0717-03**					
Acetone	21.2	10	7.3	ug/l	25.0	ND	85	29-139	19	35	
Benzene	23.5	0.50	0.12	ug/l	25.0	ND	94	68-131	3	32	
Bromobenzene	23.7	0.50	0.14	ug/l	25.0	ND	95	70-130	3	28	
Bromochloromethane	27.6	0.50	0.27	ug/l	25.0	ND	110	64-132	11	35	
Bromodichloromethane	27.4	0.50	0.23	ug/l	25.0	ND	110	63-138	4	31	
Bromoform	29.0	1.0	0.37	ug/l	25.0	ND	116	60-128	11	31	
Bromomethane	29.1	1.0	0.67	ug/l	25.0	ND	116	47-144	7	35	
2-Butanone (MEK)	20.5	5.0	2.2	ug/l	25.0	ND	82	31-143	2	35	
tert-Butylbenzene	25.2	0.50	0.25	ug/l	25.0	ND	101	74-135	1	32	
n-Butylbenzene	21.9	0.50	0.21	ug/l	25.0	ND	87	69-140	5	32	
sec-Butylbenzene	23.5	0.50	0.23	ug/l	25.0	ND	94	72-136	4	33	
Carbon disulfide	27.2	1.0	0.86	ug/l	25.0	ND	109	45-150	1	35	
Carbon tetrachloride	28.5	0.50	0.15	ug/l	25.0	ND	114	65-147	0.1	35	
Chlorobenzene	23.6	0.50	0.17	ug/l	25.0	ND	94	70-130	2	30	
Chloroethane	24.9	0.50	0.25	ug/l	25.0	ND	100	57-139	4	35	
Chloroform	26.2	0.50	0.13	ug/l	25.0	0.820	101	63-131	2	33	
Chloromethane	27.6	1.0	0.21	ug/l	25.0	ND	110	47-134	2	35	
4-Chlorotoluene	23.6	0.50	0.20	ug/l	25.0	ND	95	70-130	3	28	
2-Chlorotoluene	24.0	0.50	0.17	ug/l	25.0	ND	96	71-131	1	29	
1,2-Dibromo-3-chloropropane	30.8	5.0	0.82	ug/l	25.0	ND	123	53-145	11	35	

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Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Matrix Spike Dup Analyzed: 09/16/2012 (12I0539-MSD1)					**Source: PVI0717-03**						
Dibromochloromethane	27.1	0.50	0.22	ug/l	25.0	ND	109	65-134	7	33	
1,2-Dibromoethane (EDB)	25.4	0.50	0.30	ug/l	25.0	ND	102	70-130	9	33	
Dibromomethane	25.8	0.50	0.26	ug/l	25.0	ND	103	66-136	4	35	
1,2-Dichlorobenzene	24.3	0.50	0.22	ug/l	25.0	ND	97	70-130	1	27	
1,4-Dichlorobenzene	22.0	0.50	0.17	ug/l	25.0	ND	88	70-130	5	26	
1,3-Dichlorobenzene	23.0	0.50	0.14	ug/l	25.0	ND	92	70-130	0.7	28	
Dichlorodifluoromethane	28.9	0.50	0.15	ug/l	25.0	ND	116	40-148	2	35	
1,1-Dichloroethane	23.9	0.50	0.14	ug/l	25.0	ND	96	62-130	1	34	
1,2-Dichloroethane	30.6	0.50	0.31	ug/l	25.0	ND	122	54-147	7	35	
cis-1,2-Dichloroethene	25.5	0.50	0.21	ug/l	25.0	ND	102	65-127	6	34	
trans-1,2-Dichloroethene	24.0	0.50	0.29	ug/l	25.0	ND	96	62-131	5	35	
1,1-Dichloroethene	27.3	0.50	0.23	ug/l	25.0	ND	109	57-137	0.3	35	
1,2-Dichloropropane	22.4	0.50	0.23	ug/l	25.0	ND	90	68-126	2	32	
2,2-Dichloropropane	27.3	1.0	0.18	ug/l	25.0	ND	109	60-146	0.9	35	
1,3-Dichloropropane	23.0	0.50	0.23	ug/l	25.0	ND	92	68-129	6	33	
cis-1,3-Dichloropropene	24.9	0.50	0.14	ug/l	25.0	ND	100	63-135	4	35	
1,1-Dichloropropene	20.1	0.50	0.20	ug/l	25.0	ND	80	64-134	3	34	
trans-1,3-Dichloropropene	26.8	0.50	0.47	ug/l	25.0	ND	107	58-136	8	35	
Ethylbenzene	23.7	0.50	0.32	ug/l	25.0	ND	95	74-134	2	32	
Hexachlorobutadiene	31.2	1.0	0.28	ug/l	25.0	ND	125	69-150	5	32	*V1*
2-Hexanone	19.3	5.0	1.5	ug/l	25.0	ND	77	40-142	9	35	
Iodomethane	32.1	2.5	0.21	ug/l	25.0	ND	129	53-150	5	35	
Isopropylbenzene	25.8	0.50	0.26	ug/l	25.0	ND	103	80-146	2	32	
p-Isopropyltoluene	23.6	0.50	0.21	ug/l	25.0	ND	95	70-133	2	32	
Methyl-tert-butyl Ether (MTBE)	28.6	0.50	0.22	ug/l	25.0	ND	114	67-138	13	21	
Methylene Chloride	26.5	1.0	0.67	ug/l	25.0	ND	106	55-133	2	35	
4-Methyl-2-pentanone (MIBK)	23.0	2.5	1.3	ug/l	25.0	ND	92	52-143	13	35	
Naphthalene	26.5	2.5	0.51	ug/l	25.0	ND	106	67-146	3	29	
n-Propylbenzene	22.9	0.50	0.21	ug/l	25.0	ND	92	74-140	5	32	
Styrene	23.9	0.50	0.17	ug/l	25.0	ND	96	43-144	1	35	
1,1,1,2-Tetrachloroethane	25.8	0.50	0.35	ug/l	25.0	ND	103	70-130	2	30	

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0539 Extracted: 09/16/12											
Matrix Spike Dup Analyzed: 09/16/2012 (12I0539-MSD1)						**Source: PVI0717-03**					
1,1,2,2-Tetrachloroethane	23.2	0.50	0.33	ug/l	25.0	ND	93	63-137	0.9	32	
Tetrachloroethene	21.8	0.50	0.18	ug/l	25.0	0.590	85	67-131	2	31	
Toluene	24.6	0.50	0.28	ug/l	25.0	ND	98	65-138	1	33	
1,2,4-Trichlorobenzene	24.1	1.0	0.32	ug/l	25.0	ND	97	74-138	6	26	
1,2,3-Trichlorobenzene	27.6	1.0	0.45	ug/l	25.0	ND	111	74-139	5	26	
1,1,1-Trichloroethane	29.4	0.50	0.15	ug/l	25.0	ND	117	64-138	2	35	
1,1,2-Trichloroethane	26.8	0.50	0.31	ug/l	25.0	ND	107	63-132	6	35	
Trichloroethene	24.4	0.50	0.24	ug/l	25.0	0.320	96	66-132	2	29	
Trichlorofluoromethane	35.2	0.50	0.15	ug/l	25.0	ND	141	62-150	4	35	
1,2,3-Trichloropropane	27.5	2.0	0.78	ug/l	25.0	ND	110	68-130	4	32	
1,2,4-Trimethylbenzene	24.7	0.50	0.25	ug/l	25.0	ND	99	63-135	0.6	31	
1,3,5-Trimethylbenzene	24.3	0.50	0.21	ug/l	25.0	ND	97	66-137	6	30	
Vinyl Acetate	24.6	2.0	0.81	ug/l	25.0	ND	98	47-150	8	35	
Vinyl chloride	25.3	0.50	0.18	ug/l	25.0	ND	101	55-146	0.3	35	
Xylenes, Total	47.8	1.0	0.86	ug/l	50.0	ND	96	68-131	0.06	31	
Surrogate: 4-Bromofluorobenzene	*26.1*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*28.5*			*ug/l*	*25.0*		*114*	*70-130*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*70-130*			
Batch: 12I0719 Extracted: 09/20/12											
Blank Analyzed: 09/20/2012 (12I0719-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Blank Analyzed: 09/20/2012 (12I0719-BLK1)											
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							*V1*
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							
2-Hexanone	ND	5.0	1.5	ug/l							

TestAmerica Phoenix

Kylie Emily
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Blank Analyzed: 09/20/2012 (12I0719-BLK1)											
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	1.01	2.5	0.51	ug/l							*E4*
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*25.9*			*ug/l*	*25.0*		*103*	*70-130*			

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APS-Corporate
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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

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Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
LCS Analyzed: 09/20/2012 (12I0719-BS1)											
Acetone	25.9	10	7.3	ug/l	25.0		104	38-150			
Benzene	24.5	0.50	0.12	ug/l	25.0		98	70-130			
Bromobenzene	23.5	0.50	0.14	ug/l	25.0		94	70-130			
Bromochloromethane	23.2	0.50	0.27	ug/l	25.0		93	70-130			
Bromodichloromethane	24.0	0.50	0.23	ug/l	25.0		96	70-130			
Bromoform	22.0	1.0	0.37	ug/l	25.0		88	69-129			
Bromomethane	26.5	1.0	0.67	ug/l	25.0		106	57-138			
2-Butanone (MEK)	28.9	5.0	2.2	ug/l	25.0		116	53-150			
tert-Butylbenzene	24.2	0.50	0.25	ug/l	25.0		97	70-130			
n-Butylbenzene	24.3	0.50	0.21	ug/l	25.0		97	70-130			
sec-Butylbenzene	24.6	0.50	0.23	ug/l	25.0		98	70-130			
Carbon disulfide	26.5	1.0	0.86	ug/l	25.0		106	64-145			
Carbon tetrachloride	23.6	0.50	0.15	ug/l	25.0		94	70-143			
Chlorobenzene	24.1	0.50	0.17	ug/l	25.0		97	70-130			
Chloroethane	24.2	0.50	0.25	ug/l	25.0		97	66-131			
Chloroform	24.1	0.50	0.13	ug/l	25.0		96	70-130			
Chloromethane	29.6	1.0	0.21	ug/l	25.0		118	56-129			
4-Chlorotoluene	24.1	0.50	0.20	ug/l	25.0		97	70-130			
2-Chlorotoluene	24.1	0.50	0.17	ug/l	25.0		96	70-130			
1,2-Dibromo-3-chloropropane	29.0	5.0	0.82	ug/l	25.0		116	63-146			*V1*
Dibromochloromethane	22.0	0.50	0.22	ug/l	25.0		88	70-130			
1,2-Dibromoethane (EDB)	24.3	0.50	0.30	ug/l	25.0		97	70-130			
Dibromomethane	23.5	0.50	0.26	ug/l	25.0		94	70-130			
1,2-Dichlorobenzene	24.6	0.50	0.22	ug/l	25.0		98	70-130			
1,4-Dichlorobenzene	23.8	0.50	0.17	ug/l	25.0		95	70-130			
1,3-Dichlorobenzene	24.4	0.50	0.14	ug/l	25.0		98	70-130			
Dichlorodifluoromethane	24.5	0.50	0.15	ug/l	25.0		98	46-144			
1,1-Dichloroethane	24.7	0.50	0.14	ug/l	25.0		99	70-130			
1,2-Dichloroethane	26.0	0.50	0.31	ug/l	25.0		104	66-139			
cis-1,2-Dichloroethene	27.3	0.50	0.21	ug/l	25.0		109	70-130			
trans-1,2-Dichloroethene	26.7	0.50	0.29	ug/l	25.0		107	69-127			

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
LCS Analyzed: 09/20/2012 (12I0719-BS1)											
1,1-Dichloroethene	24.8	0.50	0.23	ug/l	25.0		99	63-131			
1,2-Dichloropropane	24.3	0.50	0.23	ug/l	25.0		97	70-130			
2,2-Dichloropropane	27.9	1.0	0.18	ug/l	25.0		112	69-139			
1,3-Dichloropropane	24.1	0.50	0.23	ug/l	25.0		96	70-130			
cis-1,3-Dichloropropene	24.1	0.50	0.14	ug/l	25.0		97	70-130			
1,1-Dichloropropene	21.8	0.50	0.20	ug/l	25.0		87	70-130			
trans-1,3-Dichloropropene	24.4	0.50	0.47	ug/l	25.0		98	70-130			
Ethylbenzene	23.6	0.50	0.32	ug/l	25.0		94	70-130			
Hexachlorobutadiene	28.9	1.0	0.28	ug/l	25.0		116	76-145			
2-Hexanone	30.4	5.0	1.5	ug/l	25.0		122	55-150			
Iodomethane	29.3	2.5	0.21	ug/l	25.0		117	74-150			
Isopropylbenzene	26.1	0.50	0.26	ug/l	25.0		104	88-141			
p-Isopropyltoluene	23.3	0.50	0.21	ug/l	25.0		93	70-130			
Methyl-tert-butyl Ether (MTBE)	24.2	0.50	0.22	ug/l	25.0		97	70-130			
Methylene Chloride	24.2	1.0	0.67	ug/l	25.0		97	63-128			
4-Methyl-2-pentanone (MIBK)	25.9	2.5	1.3	ug/l	25.0		104	64-142			
Naphthalene	27.2	2.5	0.51	ug/l	25.0		109	78-143			
n-Propylbenzene	24.7	0.50	0.21	ug/l	25.0		99	70-130			
Styrene	24.2	0.50	0.17	ug/l	25.0		97	70-130			
1,1,1,2-Tetrachloroethane	23.8	0.50	0.35	ug/l	25.0		95	70-130			
1,1,2,2-Tetrachloroethane	25.6	0.50	0.33	ug/l	25.0		102	70-130			
Tetrachloroethene	22.4	0.50	0.18	ug/l	25.0		90	70-130			
Toluene	25.6	0.50	0.28	ug/l	25.0		102	70-130			
1,2,4-Trichlorobenzene	26.1	1.0	0.32	ug/l	25.0		104	80-137			
1,2,3-Trichlorobenzene	27.5	1.0	0.45	ug/l	25.0		110	79-139			
1,1,1-Trichloroethane	25.8	0.50	0.15	ug/l	25.0		103	71-131			
1,1,2-Trichloroethane	25.9	0.50	0.31	ug/l	25.0		104	70-130			
Trichloroethene	25.6	0.50	0.24	ug/l	25.0		102	70-130			
Trichlorofluoromethane	27.8	0.50	0.15	ug/l	25.0		111	69-150			
1,2,3-Trichloropropane	23.3	2.0	0.78	ug/l	25.0		93	70-130			
1,2,4-Trimethylbenzene	24.2	0.50	0.25	ug/l	25.0		97	70-130			

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Project ID: APS 501,502, & 505

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
LCS Analyzed: 09/20/2012 (12I0719-BS1)											
1,3,5-Trimethylbenzene	24.6	0.50	0.21	ug/l	25.0		99	70-130			
Vinyl Acetate	29.2	2.0	0.81	ug/l	25.0		117	67-148			
Vinyl chloride	26.2	0.50	0.18	ug/l	25.0		105	65-137			
Xylenes, Total	47.3	1.0	0.86	ug/l	50.0		95	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*			*ug/l*	*25.0*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*106*	*70-130*			
LCS Dup Analyzed: 09/20/2012 (12I0719-BSD1)											
Acetone	27.3	10	7.3	ug/l	25.0		109	38-150	5	35	
Benzene	25.8	0.50	0.12	ug/l	25.0		103	70-130	5	20	
Bromobenzene	24.4	0.50	0.14	ug/l	25.0		98	70-130	4	20	
Bromochloromethane	23.2	0.50	0.27	ug/l	25.0		93	70-130	0	20	
Bromodichloromethane	24.4	0.50	0.23	ug/l	25.0		98	70-130	1	20	
Bromoform	23.0	1.0	0.37	ug/l	25.0		92	69-129	5	20	
Bromomethane	26.4	1.0	0.67	ug/l	25.0		106	57-138	0.08	20	
2-Butanone (MEK)	28.4	5.0	2.2	ug/l	25.0		114	53-150	2	35	
tert-Butylbenzene	26.2	0.50	0.25	ug/l	25.0		105	70-130	8	20	
n-Butylbenzene	25.1	0.50	0.21	ug/l	25.0		100	70-130	3	20	
sec-Butylbenzene	26.4	0.50	0.23	ug/l	25.0		105	70-130	7	20	
Carbon disulfide	26.9	1.0	0.86	ug/l	25.0		108	64-145	2	33	
Carbon tetrachloride	24.8	0.50	0.15	ug/l	25.0		99	70-143	5	20	
Chlorobenzene	24.7	0.50	0.17	ug/l	25.0		99	70-130	2	20	
Chloroethane	24.8	0.50	0.25	ug/l	25.0		99	66-131	2	20	
Chloroform	23.5	0.50	0.13	ug/l	25.0		94	70-130	2	20	
Chloromethane	30.0	1.0	0.21	ug/l	25.0		120	56-129	1	20	
4-Chlorotoluene	25.4	0.50	0.20	ug/l	25.0		102	70-130	5	20	
2-Chlorotoluene	25.5	0.50	0.17	ug/l	25.0		102	70-130	6	20	
1,2-Dibromo-3-chloropropane	29.6	5.0	0.82	ug/l	25.0		118	63-146	2	22	*V1*
Dibromochloromethane	22.7	0.50	0.22	ug/l	25.0		91	70-130	3	20	
1,2-Dibromoethane (EDB)	24.9	0.50	0.30	ug/l	25.0		99	70-130	2	20	
Dibromomethane	24.3	0.50	0.26	ug/l	25.0		97	70-130	3	20	

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VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
LCS Dup Analyzed: 09/20/2012 (12I0719-BSD1)											
1,2-Dichlorobenzene	25.3	0.50	0.22	ug/l	25.0		101	70-130	3	20	
1,4-Dichlorobenzene	24.4	0.50	0.17	ug/l	25.0		98	70-130	2	20	
1,3-Dichlorobenzene	25.0	0.50	0.14	ug/l	25.0		100	70-130	2	20	
Dichlorodifluoromethane	24.9	0.50	0.15	ug/l	25.0		100	46-144	2	23	
1,1-Dichloroethane	25.1	0.50	0.14	ug/l	25.0		100	70-130	1	20	
1,2-Dichloroethane	25.5	0.50	0.31	ug/l	25.0		102	66-139	2	20	
cis-1,2-Dichloroethene	26.7	0.50	0.21	ug/l	25.0		107	70-130	2	20	
trans-1,2-Dichloroethene	26.7	0.50	0.29	ug/l	25.0		107	69-127	0	20	
1,1-Dichloroethene	25.7	0.50	0.23	ug/l	25.0		103	63-131	4	22	
1,2-Dichloropropane	24.6	0.50	0.23	ug/l	25.0		98	70-130	1	20	
2,2-Dichloropropane	28.6	1.0	0.18	ug/l	25.0		115	69-139	2	20	
1,3-Dichloropropane	24.8	0.50	0.23	ug/l	25.0		99	70-130	3	20	
cis-1,3-Dichloropropene	24.5	0.50	0.14	ug/l	25.0		98	70-130	2	20	
1,1-Dichloropropene	22.1	0.50	0.20	ug/l	25.0		88	70-130	1	20	
trans-1,3-Dichloropropene	24.6	0.50	0.47	ug/l	25.0		98	70-130	0.7	20	
Ethylbenzene	24.6	0.50	0.32	ug/l	25.0		98	70-130	4	20	
Hexachlorobutadiene	27.3	1.0	0.28	ug/l	25.0		109	76-145	6	20	
2-Hexanone	30.4	5.0	1.5	ug/l	25.0		122	55-150	0.03	35	
Iodomethane	29.7	2.5	0.21	ug/l	25.0		119	74-150	1	20	
Isopropylbenzene	28.3	0.50	0.26	ug/l	25.0		113	88-141	8	20	
p-Isopropyltoluene	24.4	0.50	0.21	ug/l	25.0		97	70-130	5	20	
Methyl-tert-butyl Ether (MTBE)	23.9	0.50	0.22	ug/l	25.0		96	70-130	1	20	
Methylene Chloride	24.4	1.0	0.67	ug/l	25.0		97	63-128	0.6	21	
4-Methyl-2-pentanone (MIBK)	26.2	2.5	1.3	ug/l	25.0		105	64-142	0.9	25	
Naphthalene	27.1	2.5	0.51	ug/l	25.0		108	78-143	0.4	20	
n-Propylbenzene	26.4	0.50	0.21	ug/l	25.0		106	70-130	7	20	
Styrene	25.0	0.50	0.17	ug/l	25.0		100	70-130	3	20	
1,1,1,2-Tetrachloroethane	24.8	0.50	0.35	ug/l	25.0		99	70-130	4	20	
1,1,2,2-Tetrachloroethane	26.9	0.50	0.33	ug/l	25.0		108	70-130	5	20	
Tetrachloroethene	23.8	0.50	0.18	ug/l	25.0		95	70-130	6	20	
Toluene	25.7	0.50	0.28	ug/l	25.0		103	70-130	0.4	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
LCS Dup Analyzed: 09/20/2012 (12I0719-BSD1)											
1,2,4-Trichlorobenzene	25.0	1.0	0.32	ug/l	25.0		100	80-137	4	20	
1,2,3-Trichlorobenzene	26.0	1.0	0.45	ug/l	25.0		104	79-139	6	20	
1,1,1-Trichloroethane	25.8	0.50	0.15	ug/l	25.0		103	71-131	0.08	20	
1,1,2-Trichloroethane	25.3	0.50	0.31	ug/l	25.0		101	70-130	2	20	
Trichloroethene	26.3	0.50	0.24	ug/l	25.0		105	70-130	3	20	
Trichlorofluoromethane	28.8	0.50	0.15	ug/l	25.0		115	69-150	4	22	
1,2,3-Trichloropropane	24.4	2.0	0.78	ug/l	25.0		97	70-130	4	20	
1,2,4-Trimethylbenzene	25.4	0.50	0.25	ug/l	25.0		101	70-130	5	20	
1,3,5-Trimethylbenzene	26.5	0.50	0.21	ug/l	25.0		106	70-130	7	20	
Vinyl Acetate	27.5	2.0	0.81	ug/l	25.0		110	67-148	6	22	
Vinyl chloride	26.6	0.50	0.18	ug/l	25.0		106	65-137	2	20	
Xylenes, Total	49.2	1.0	0.86	ug/l	50.0		98	70-130	4	20	
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*26.0*			*ug/l*	*25.0*		*104*	*70-130*			
Matrix Spike Analyzed: 09/20/2012 (12I0719-MS1)						**Source: PVI1264-03RE1**					
Acetone	17.6	10	7.3	ug/l	25.0	ND	70	29-139			
Benzene	25.9	0.50	0.12	ug/l	25.0	ND	104	68-131			
Bromobenzene	24.2	0.50	0.14	ug/l	25.0	ND	97	70-130			
Bromochloromethane	25.6	0.50	0.27	ug/l	25.0	ND	102	64-132			
Bromodichloromethane	26.0	0.50	0.23	ug/l	25.0	ND	104	63-138			
Bromoform	22.3	1.0	0.37	ug/l	25.0	ND	89	60-128			
Bromomethane	28.0	1.0	0.67	ug/l	25.0	ND	112	47-144			
2-Butanone (MEK)	22.2	5.0	2.2	ug/l	25.0	ND	89	31-143			
tert-Butylbenzene	23.8	0.50	0.25	ug/l	25.0	ND	95	74-135			
n-Butylbenzene	23.5	0.50	0.21	ug/l	25.0	ND	94	69-140			
sec-Butylbenzene	23.9	0.50	0.23	ug/l	25.0	ND	96	72-136			
Carbon disulfide	27.9	1.0	0.86	ug/l	25.0	ND	112	45-150			
Carbon tetrachloride	23.8	0.50	0.15	ug/l	25.0	ND	95	65-147			
Chlorobenzene	24.4	0.50	0.17	ug/l	25.0	ND	97	70-130			
Chloroethane	24.9	0.50	0.25	ug/l	25.0	ND	100	57-139			

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P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Matrix Spike Analyzed: 09/20/2012 (12I0719-MS1)					**Source: PVI1264-03RE1**						
Chloroform	26.6	0.50	0.13	ug/l	25.0	ND	106	63-131			
Chloromethane	29.2	1.0	0.21	ug/l	25.0	ND	117	47-134			
4-Chlorotoluene	24.0	0.50	0.20	ug/l	25.0	ND	96	70-130			
2-Chlorotoluene	24.2	0.50	0.17	ug/l	25.0	ND	97	71-131			
1,2-Dibromo-3-chloropropane	24.9	5.0	0.82	ug/l	25.0	ND	100	53-145			*V1*
Dibromochloromethane	23.2	0.50	0.22	ug/l	25.0	ND	93	65-134			
1,2-Dibromoethane (EDB)	25.6	0.50	0.30	ug/l	25.0	ND	103	70-130			
Dibromomethane	25.5	0.50	0.26	ug/l	25.0	ND	102	66-136			
1,2-Dichlorobenzene	25.3	0.50	0.22	ug/l	25.0	ND	101	70-130			
1,4-Dichlorobenzene	24.8	0.50	0.17	ug/l	25.0	ND	99	70-130			
1,3-Dichlorobenzene	24.1	0.50	0.14	ug/l	25.0	ND	96	70-130			
Dichlorodifluoromethane	24.0	0.50	0.15	ug/l	25.0	ND	96	40-148			
1,1-Dichloroethane	27.0	0.50	0.14	ug/l	25.0	ND	108	62-130			
1,2-Dichloroethane	29.0	0.50	0.31	ug/l	25.0	ND	116	54-147			
cis-1,2-Dichloroethene	29.0	0.50	0.21	ug/l	25.0	ND	116	65-127			
trans-1,2-Dichloroethene	27.9	0.50	0.29	ug/l	25.0	ND	111	62-131			
1,1-Dichloroethene	26.4	0.50	0.23	ug/l	25.0	ND	106	57-137			
1,2-Dichloropropane	26.0	0.50	0.23	ug/l	25.0	ND	104	68-126			
2,2-Dichloropropane	29.6	1.0	0.18	ug/l	25.0	ND	119	60-146			
1,3-Dichloropropane	25.4	0.50	0.23	ug/l	25.0	ND	101	68-129			
cis-1,3-Dichloropropene	26.2	0.50	0.14	ug/l	25.0	ND	105	63-135			
1,1-Dichloropropene	22.1	0.50	0.20	ug/l	25.0	ND	89	64-134			
trans-1,3-Dichloropropene	26.5	0.50	0.47	ug/l	25.0	ND	106	58-136			
Ethylbenzene	23.5	0.50	0.32	ug/l	25.0	ND	94	74-134			
Hexachlorobutadiene	27.4	1.0	0.28	ug/l	25.0	ND	110	69-150			
2-Hexanone	20.8	5.0	1.5	ug/l	25.0	ND	83	40-142			
Iodomethane	31.4	2.5	0.21	ug/l	25.0	ND	126	53-150			
Isopropylbenzene	26.0	0.50	0.26	ug/l	25.0	ND	104	80-146			
p-Isopropyltoluene	22.6	0.50	0.21	ug/l	25.0	ND	90	70-133			
Methyl-tert-butyl Ether (MTBE)	27.3	0.50	0.22	ug/l	25.0	ND	109	67-138			
Methylene Chloride	26.6	1.0	0.67	ug/l	25.0	ND	106	55-133			

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Matrix Spike Analyzed: 09/20/2012 (12I0719-MS1)						**Source: PVI1264-03RE1**					
4-Methyl-2-pentanone (MIBK)	26.1	2.5	1.3	ug/l	25.0	ND	104	52-143			
Naphthalene	26.6	2.5	0.51	ug/l	25.0	ND	106	67-146			
n-Propylbenzene	24.3	0.50	0.21	ug/l	25.0	ND	97	74-140			
Styrene	24.9	0.50	0.17	ug/l	25.0	ND	100	43-144			
1,1,1,2-Tetrachloroethane	24.8	0.50	0.35	ug/l	25.0	ND	99	70-130			
1,1,2,2-Tetrachloroethane	25.9	0.50	0.33	ug/l	25.0	ND	104	63-137			
Tetrachloroethene	22.2	0.50	0.18	ug/l	25.0	ND	89	67-131			
Toluene	26.8	0.50	0.28	ug/l	25.0	ND	107	65-138			
1,2,4-Trichlorobenzene	26.4	1.0	0.32	ug/l	25.0	ND	106	74-138			
1,2,3-Trichlorobenzene	26.7	1.0	0.45	ug/l	25.0	ND	107	74-139			
1,1,1-Trichloroethane	27.4	0.50	0.15	ug/l	25.0	ND	109	64-138			
1,1,2-Trichloroethane	27.7	0.50	0.31	ug/l	25.0	ND	111	63-132			
Trichloroethene	27.0	0.50	0.24	ug/l	25.0	ND	108	66-132			
Trichlorofluoromethane	29.0	0.50	0.15	ug/l	25.0	ND	116	62-150			
1,2,3-Trichloropropane	23.6	2.0	0.78	ug/l	25.0	ND	94	68-130			
1,2,4-Trimethylbenzene	24.3	0.50	0.25	ug/l	25.0	ND	97	63-135			
1,3,5-Trimethylbenzene	24.7	0.50	0.21	ug/l	25.0	ND	99	66-137			
Vinyl Acetate	31.7	2.0	0.81	ug/l	25.0	ND	127	47-150			
Vinyl chloride	26.3	0.50	0.18	ug/l	25.0	ND	105	55-146			
Xylenes, Total	48.2	1.0	0.86	ug/l	50.0	ND	96	68-131			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*27.8*			*ug/l*	*25.0*		*111*	*70-130*			
Surrogate: Toluene-d8	*26.0*			*ug/l*	*25.0*		*104*	*70-130*			
Matrix Spike Dup Analyzed: 09/20/2012 (12I0719-MSD1)						**Source: PVI1264-03RE1**					
Acetone	18.3	10	7.3	ug/l	25.0	ND	73	29-139	4	35	
Benzene	26.3	0.50	0.12	ug/l	25.0	ND	105	68-131	1	32	
Bromobenzene	24.1	0.50	0.14	ug/l	25.0	ND	96	70-130	0.6	28	
Bromochloromethane	26.8	0.50	0.27	ug/l	25.0	ND	107	64-132	5	35	
Bromodichloromethane	25.9	0.50	0.23	ug/l	25.0	ND	103	63-138	0.4	31	
Bromoform	23.1	1.0	0.37	ug/l	25.0	ND	92	60-128	4	31	
Bromomethane	27.6	1.0	0.67	ug/l	25.0	ND	110	47-144	1	35	

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Matrix Spike Dup Analyzed: 09/20/2012 (12I0719-MSD1)					**Source: PVI1264-03RE1**						
2-Butanone (MEK)	20.9	5.0	2.2	ug/l	25.0	ND	84	31-143	6	35	
tert-Butylbenzene	24.0	0.50	0.25	ug/l	25.0	ND	96	74-135	0.5	32	
n-Butylbenzene	23.6	0.50	0.21	ug/l	25.0	ND	94	69-140	0.4	32	
sec-Butylbenzene	24.1	0.50	0.23	ug/l	25.0	ND	96	72-136	0.5	33	
Carbon disulfide	27.6	1.0	0.86	ug/l	25.0	ND	110	45-150	1	35	
Carbon tetrachloride	24.2	0.50	0.15	ug/l	25.0	ND	97	65-147	2	35	
Chlorobenzene	24.3	0.50	0.17	ug/l	25.0	ND	97	70-130	0.08	30	
Chloroethane	24.6	0.50	0.25	ug/l	25.0	ND	98	57-139	1	35	
Chloroform	26.0	0.50	0.13	ug/l	25.0	ND	104	63-131	2	33	
Chloromethane	29.1	1.0	0.21	ug/l	25.0	ND	116	47-134	0.5	35	
4-Chlorotoluene	24.4	0.50	0.20	ug/l	25.0	ND	98	70-130	2	28	
2-Chlorotoluene	24.6	0.50	0.17	ug/l	25.0	ND	98	71-131	2	29	
1,2-Dibromo-3-chloropropane	27.3	5.0	0.82	ug/l	25.0	ND	109	53-145	9	35	*V1*
Dibromochloromethane	23.5	0.50	0.22	ug/l	25.0	ND	94	65-134	1	33	
1,2-Dibromoethane (EDB)	25.4	0.50	0.30	ug/l	25.0	ND	102	70-130	1	33	
Dibromomethane	25.8	0.50	0.26	ug/l	25.0	ND	103	66-136	1	35	
1,2-Dichlorobenzene	25.3	0.50	0.22	ug/l	25.0	ND	101	70-130	0.2	27	
1,4-Dichlorobenzene	24.4	0.50	0.17	ug/l	25.0	ND	97	70-130	2	26	
1,3-Dichlorobenzene	24.4	0.50	0.14	ug/l	25.0	ND	98	70-130	1	28	
Dichlorodifluoromethane	23.9	0.50	0.15	ug/l	25.0	ND	95	40-148	0.4	35	
1,1-Dichloroethane	26.3	0.50	0.14	ug/l	25.0	ND	105	62-130	3	34	
1,2-Dichloroethane	29.1	0.50	0.31	ug/l	25.0	ND	116	54-147	0.4	35	
cis-1,2-Dichloroethene	28.4	0.50	0.21	ug/l	25.0	ND	113	65-127	2	34	
trans-1,2-Dichloroethene	27.6	0.50	0.29	ug/l	25.0	ND	111	62-131	0.8	35	
1,1-Dichloroethene	26.0	0.50	0.23	ug/l	25.0	ND	104	57-137	2	35	
1,2-Dichloropropane	25.9	0.50	0.23	ug/l	25.0	ND	104	68-126	0.3	32	
2,2-Dichloropropane	30.2	1.0	0.18	ug/l	25.0	ND	121	60-146	2	35	
1,3-Dichloropropane	25.3	0.50	0.23	ug/l	25.0	ND	101	68-129	0.04	33	
cis-1,3-Dichloropropene	26.7	0.50	0.14	ug/l	25.0	ND	107	63-135	2	35	
1,1-Dichloropropene	22.3	0.50	0.20	ug/l	25.0	ND	89	64-134	0.8	34	
trans-1,3-Dichloropropene	26.8	0.50	0.47	ug/l	25.0	ND	107	58-136	1	35	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0719 Extracted: 09/20/12											
Matrix Spike Dup Analyzed: 09/20/2012 (12I0719-MSD1)						**Source: PVI1264-03RE1**					
Ethylbenzene	23.5	0.50	0.32	ug/l	25.0	ND	94	74-134	0.04	32	
Hexachlorobutadiene	27.1	1.0	0.28	ug/l	25.0	ND	109	69-150	1	32	
2-Hexanone	22.0	5.0	1.5	ug/l	25.0	ND	88	40-142	5	35	
Iodomethane	30.9	2.5	0.21	ug/l	25.0	ND	124	53-150	2	35	
Isopropylbenzene	26.1	0.50	0.26	ug/l	25.0	ND	104	80-146	0.5	32	
p-Isopropyltoluene	22.9	0.50	0.21	ug/l	25.0	ND	92	70-133	1	32	
Methyl-tert-butyl Ether (MTBE)	27.3	0.50	0.22	ug/l	25.0	ND	109	67-138	0.07	21	
Methylene Chloride	26.7	1.0	0.67	ug/l	25.0	ND	107	55-133	0.6	35	
4-Methyl-2-pentanone (MIBK)	26.6	2.5	1.3	ug/l	25.0	ND	107	52-143	2	35	
Naphthalene	28.0	2.5	0.51	ug/l	25.0	ND	112	67-146	5	29	
n-Propylbenzene	24.4	0.50	0.21	ug/l	25.0	ND	98	74-140	0.4	32	
Styrene	24.1	0.50	0.17	ug/l	25.0	ND	96	43-144	3	35	
1,1,1,2-Tetrachloroethane	24.7	0.50	0.35	ug/l	25.0	ND	99	70-130	0.4	30	
1,1,2,2-Tetrachloroethane	26.4	0.50	0.33	ug/l	25.0	ND	106	63-137	2	32	
Tetrachloroethene	21.9	0.50	0.18	ug/l	25.0	ND	88	67-131	1	31	
Toluene	26.4	0.50	0.28	ug/l	25.0	ND	106	65-138	1	33	
1,2,4-Trichlorobenzene	26.6	1.0	0.32	ug/l	25.0	ND	106	74-138	0.5	26	
1,2,3-Trichlorobenzene	27.2	1.0	0.45	ug/l	25.0	ND	109	74-139	2	26	
1,1,1-Trichloroethane	27.1	0.50	0.15	ug/l	25.0	ND	108	64-138	1	35	
1,1,2-Trichloroethane	28.2	0.50	0.31	ug/l	25.0	ND	113	63-132	2	35	
Trichloroethene	26.8	0.50	0.24	ug/l	25.0	ND	107	66-132	0.6	29	
Trichlorofluoromethane	29.0	0.50	0.15	ug/l	25.0	ND	116	62-150	0.2	35	
1,2,3-Trichloropropane	24.8	2.0	0.78	ug/l	25.0	ND	99	68-130	5	32	
1,2,4-Trimethylbenzene	24.4	0.50	0.25	ug/l	25.0	ND	98	63-135	0.3	31	
1,3,5-Trimethylbenzene	24.8	0.50	0.21	ug/l	25.0	ND	99	66-137	0.8	30	
Vinyl Acetate	30.8	2.0	0.81	ug/l	25.0	ND	123	47-150	3	35	
Vinyl chloride	25.9	0.50	0.18	ug/l	25.0	ND	103	55-146	1	35	
Xylenes, Total	47.6	1.0	0.86	ug/l	50.0	ND	95	68-131	1	31	
Surrogate: 4-Bromofluorobenzene	*24.5*			*ug/l*	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*27.2*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*26.2*			*ug/l*	*25.0*		*105*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

DATA QUALIFIERS AND DEFINITIONS

E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Kylie Emily
Project Manager

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Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0717

Sampled: 09/12/12
Received: 09/12/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 08/10/12

TestAmerica
Phoenix

Instrument ID	GCMS 2
Date:	8/10/12
Analyst	mm
Method(s)	8260/624
50 ppm Cal. Std.	PV04887
2.5 ppm Cal. Std.	PV04888
500 / 250 / 50 ppm EtOH/TBA/Surr Cal. Std.	PV04791
50 / 25 / 5 ppm EtOH/TBA/Surr Cal. Std.	PV04792
50 ppm SS Std.	PV04717
500 / 250 ppm EtOH/TBA SS Std.	PV04303
Tertiary Std.	NA

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: _____ Date: 8/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\081012

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	08101201.d	1.	TUNE		10 Aug 2012 06:39
2	2	08101202.d	1.	25 PPB CCV		10 Aug 2012 06:57
3	3	08101203.d	1.	BLANK		10 Aug 2012 07:30
4	4	08101204.d	1.	0.5 PPB ICAL		10 Aug 2012 08:03
5	5	08101205.d	1.	1.0 PPB ICAL		10 Aug 2012 08:36
6	6	08101206.d	1.	2.0 PPB ICAL		10 Aug 2012 09:08
7	7	08101207.d	1.	5.0 PPB ICAL		10 Aug 2012 09:41
8	8	08101208.d	1.	10 PPB ICAL		10 Aug 2012 10:14
9	9	08101209.d	1.	25 PPB ICAL		10 Aug 2012 10:46
10	10	08101210.d	1.	50 PPB ICAL		10 Aug 2012 11:19
11	11	08101211.d	1.	100 PPB ICAL		10 Aug 2012 11:51
12	12	08101212.d	1.	200 PPB ICAL		10 Aug 2012 12:24
13	13	08101213.d	1.	BLANK		10 Aug 2012 12:57
14	1	08101214.d	1.	TUNE		10 Aug 2012 13:24
15	2	08101215.d	1.	25 PPB ICV/SS		10 Aug 2012 13:40
16	3	08101216.d	1.	12H0456-BS1		10 Aug 2012 14:13
17	4	08101217.d	1.	12H0456-BSD1		10 Aug 2012 14:45
18	5	08101218.d	1.	12H0456-BLK1		10 Aug 2012 15:18
19	6	08101219.d	1.	PVH0139-08@TB		10 Aug 2012 15:57
20	7	08101220.d	1.	PVH0159-04@TB		10 Aug 2012 16:32
21	8	08101221.d	1.	PVH0232-01	SOURCE	10 Aug 2012 17:05
22	9	08101222.d	1.	12H0456-MS1		10 Aug 2012 17:37
23	10	08101223.d	1.	12H0456-MSD1		10 Aug 2012 18:10
24	11	08101224.d	1.	PVH0620-01		10 Aug 2012 18:43
25	12	08101225.d	1.	PVH0620-02		10 Aug 2012 19:15
26	13	08101226.d	1.	PVH0257-05		10 Aug 2012 19:48
27	14	08101227.d	1.	PVH0257-06		10 Aug 2012 20:21
28	15	08101228.d	1.	PVH0257-07		10 Aug 2012 20:53
29	16	08101229.d	1.	PVH0257-08		10 Aug 2012 21:26
30	17	08101230.d	1.	PVH0257-09		10 Aug 2012 21:58
31	18	08101231.d	1.	PVH0159-03		10 Aug 2012 22:31
32	19	08101232.d	1.	PVH0568-01	100X	10 Aug 2012 23:04
33	20	08101233.d	1.	PVH0697-01	100X	10 Aug 2012 23:36
34	21	08101234.d	1.	PVH0569-01	100X	11 Aug 2012 00:09
35	22	08101235.d	1.	PVH0698-01	100X	11 Aug 2012 00:41
36	23	08101236.d	1.	PVH0202-01	100000X	11 Aug 2012 01:14

8/13/12

MM 8/13/12

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GC/MS 2 DAILY LOG SUMMARY

DATE: 8/10/12 QC BATCH # (s) : 12H0456

ANALYST: mm SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	08101201	Tunc	2µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	DMC
3	03	Blank	✓				
4	04	0.5 ppb ICAL	✓				
5	05	1.0	✓				
6	06	2.0	✓				
7	07	5.0	✓				
8	08	10	✓				
9	09	25	✓				
10	10	50	✓				
11	11	100	✓				
12	12	200	✓				
13	13	Blank	✓				DMC cleanout
1	14	Tunc	2µL			NA	
2	15	25 ppb ICV/SS	✓			H_2O	
3	16	12H0456-BS1	✓	NA			
4	17	-BSD1	✓				
5	18	-BLK1	✓				
6	19	PVH0139-08A	✓	✓			TB
7	20	PVH0159-04A	✓	✓			TB
8	21	PVH0232-01A	✓	✓			Source
9	22	12H0456-MS1	✓	✓			
10	23	-MSD1	✓	✓			
11	24	PVH0020-01A	✓	✓			
12	25	-02A	✓	✓			
13	26	PVH0257-05A	✓	✓			
14	27	-06A	✓	✓			
15	28	-07A	✓	✓			
16	29	-08A	✓	✓			
17	30	-09A	✓	✓			RL10X RDE

STANDARD ID NUMBERS

ICV / H_2O LCS: PV0477/4303

CCV/CALIBRATION STD: PV0488/4792/4887/4791

Internal Std: 4795

IS/Surrogate/BFB: 4794/4559

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL ICV SS + 5µL IS/Surr → 10ml H_2

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: mm 8/13/12

SEQUENCE REVIEWED By/Date: ✓

FINAL REVIEWER / Date: 8/13/12

PX-VOA-010/E-09/11

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 08/10/12 QC BATCH # (s) : 12H0450

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
18	31	PVH0159-03A	✓	7	~~8260~~ ~~8260~~ eh 081012 8260	H_2O	RL 10X T All vials pH=7
19	32	0508-01D	100 ml → 10 ml H_2O	11			100X WM
20	33	0097-01D	100 ml → 10 ml H_2O	11			100X WM
21	34	0509-01D	100 ml → 10 ml H_2O	11			100X WM
22	35	0098-01D	100 ml → 10 ml H_2O	11			100X WM
23	310	0202-01B	1 ml → 10 ml H_2O → 1 ml → 10 ml H_2O	11			100,000X odor
							RL ~~10~~ 5 000,000X MEK, A, T

eh 081012

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD: see pg. 1

Internal Std:

IS/Surrogate/BFB: see pg. 1

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date: see pg. 12

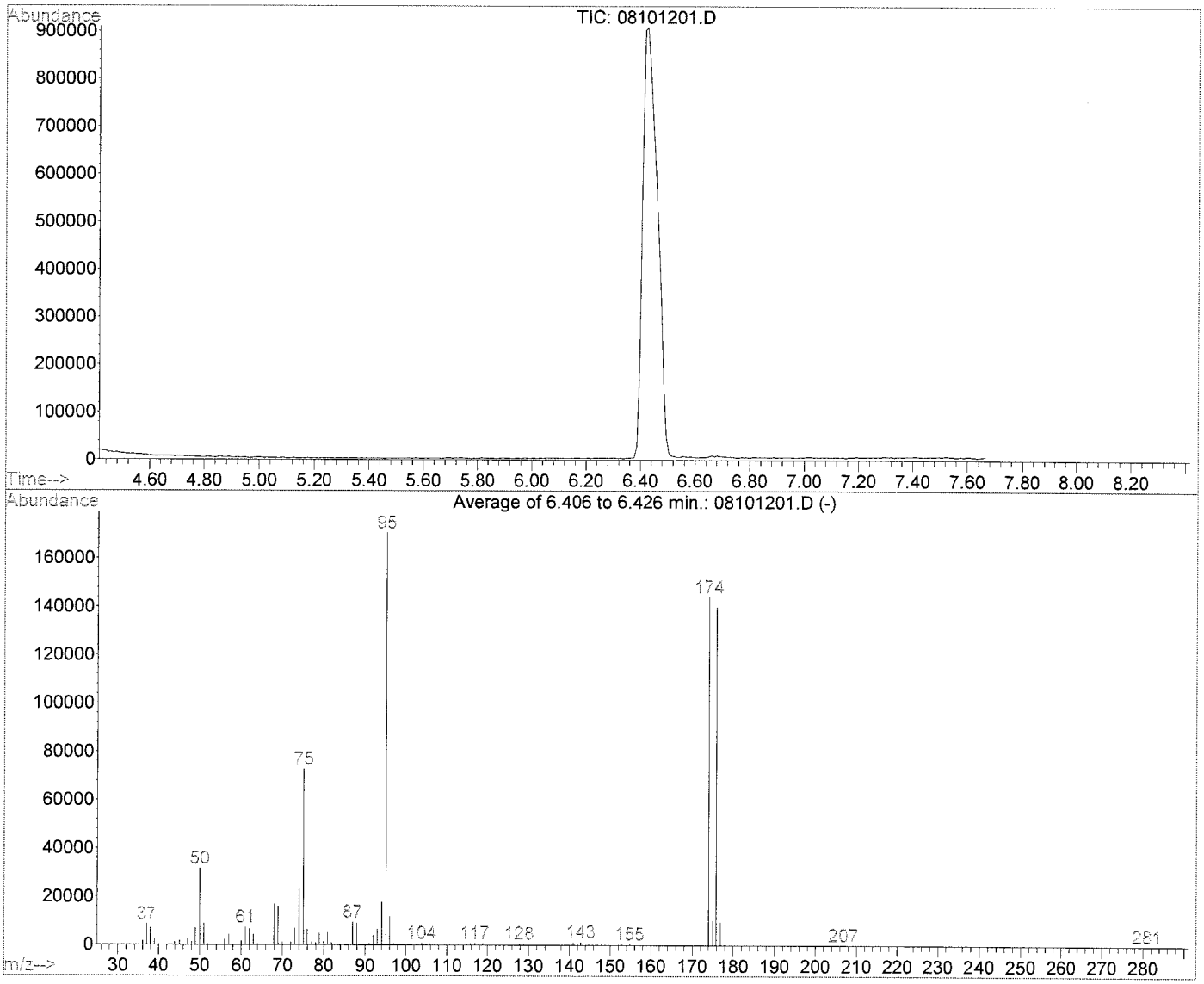
SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date: RR 8/13/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101201.D Vial: 1
Acq On : 10 Aug 2012 6:39 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration

8/13/12



Spectrum Information: Average of 6.406 to 6.426 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	31531	PASS
75	95	30	60	42.7	72755	PASS
95	95	100	100	100.0	170560	PASS
96	95	5	9	6.9	11734	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	144072	PASS
175	174	5	9	7.0	10104	PASS
176	174	95	101	97.0	139779	PASS
177	176	5	9	6.8	9517	PASS

MM 8/13/12

08101201.D 080712.M Fri Aug 10 12:47:05 2012

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00	ug/L	-0.01
50) Chlorobenzene-d5	15.28	117	292809	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	131913	28.41	ug/L	0.00
Spiked Amount 25.000			Recovery	=	113.64%	
48) Toluene-d8	13.33	98	397025	26.94	ug/L	0.00
Spiked Amount 25.000			Recovery	=	107.76%	
62) 4-Bromofluorobenzene	16.95	95	111862	26.20	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	104.80%	
Target Compounds						Qvalue
2) Ethanol	5.47	45	748	20.03	ug/L	80
9) Bromomethane	5.29	94	868	0.15	ug/L #	4
12) Acetone	6.25	43	1787	1.44	ug/L #	62
14) 1,1-Dichloroethene	6.82	96	491	0.09	ug/L #	1
28) 2,2-Dichloropropane	9.30	77	770	0.10	ug/L #	49
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.41	ug/L #	32
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.11	ug/L #	39
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.12	ug/L #	59
84) Napthalene	21.84	128	1664	0.34	ug/L #	82

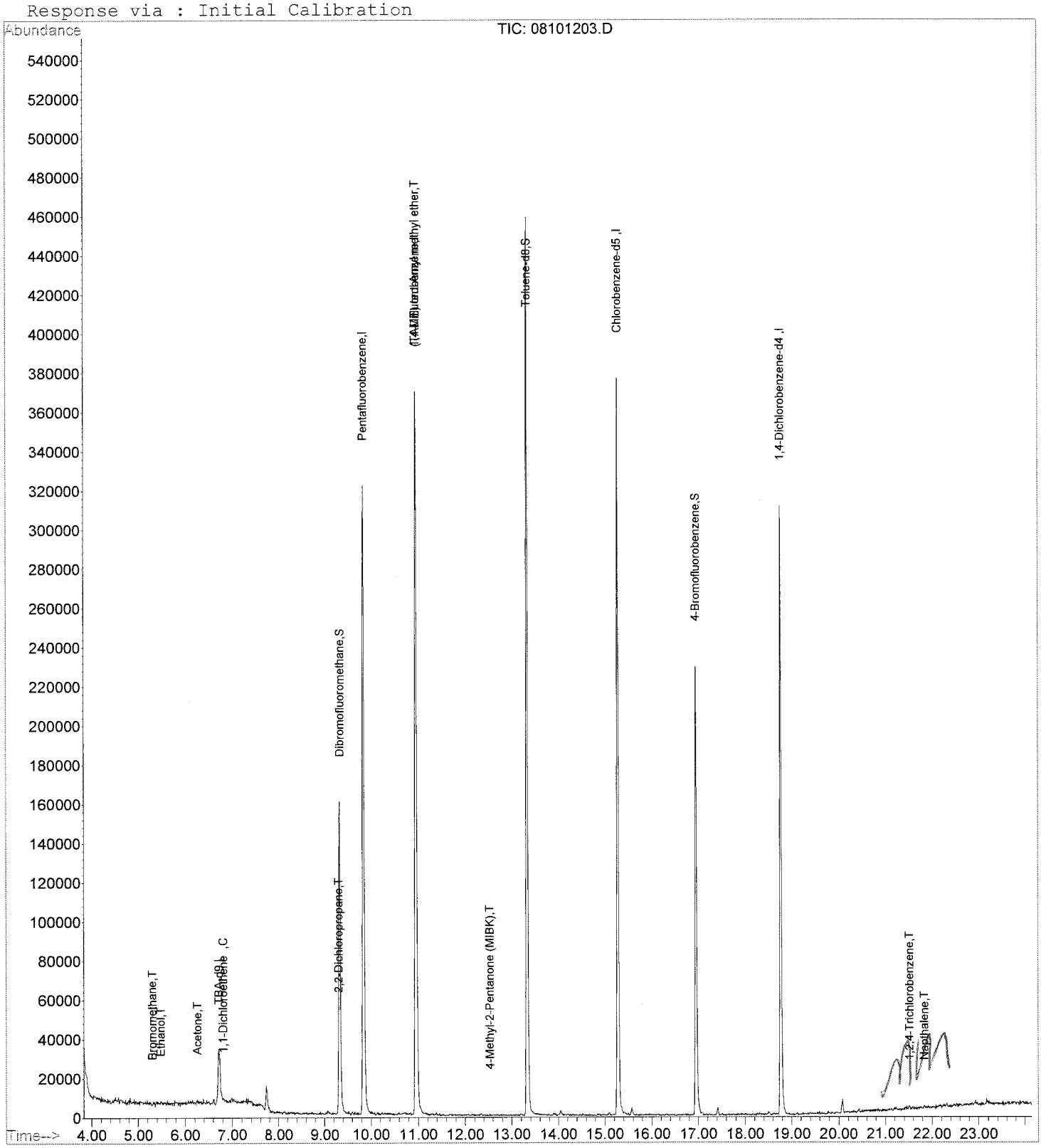
MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101203.D 080712.M Fri Aug 10 12:47:36 2012

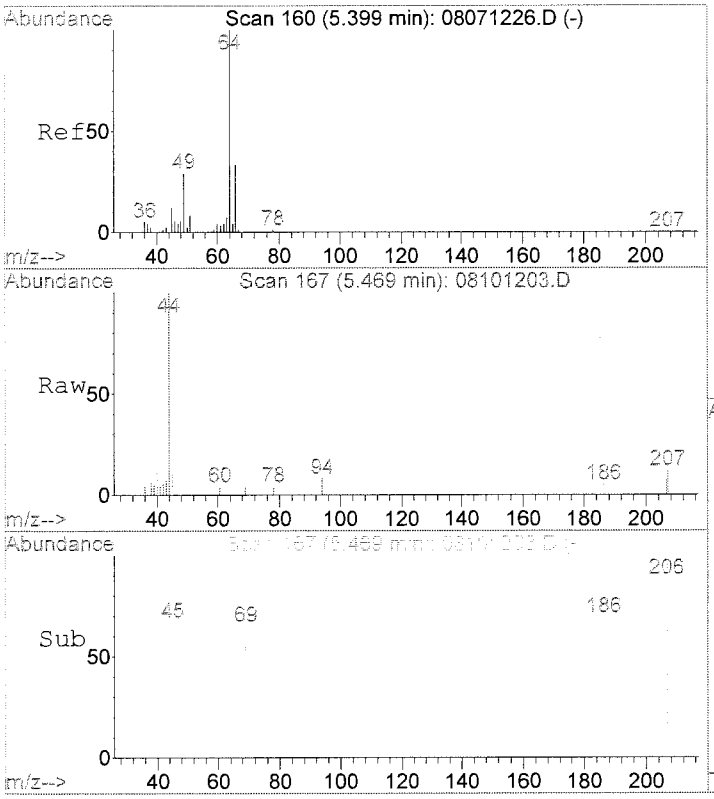
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



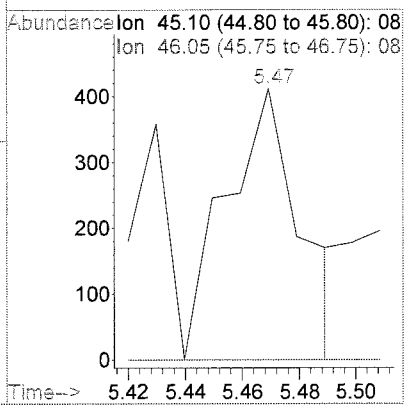
08101203.D 080712.M Fri Aug 10 12:47:36 2012

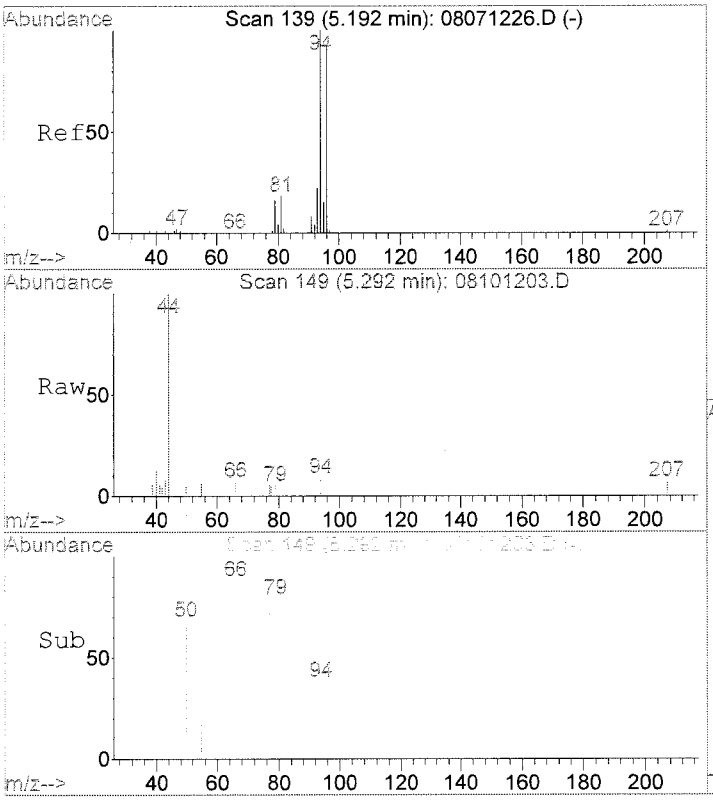


#2
Ethanol
Concen: 20.03 ug/L
RT: 5.47 min Scan# 167
Delta R.T. 0.07 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 748

Ion	Ratio	Lower	Upper
45	100		
46	26.2	18.6	58.6

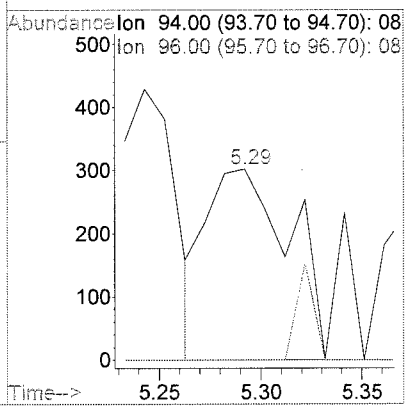


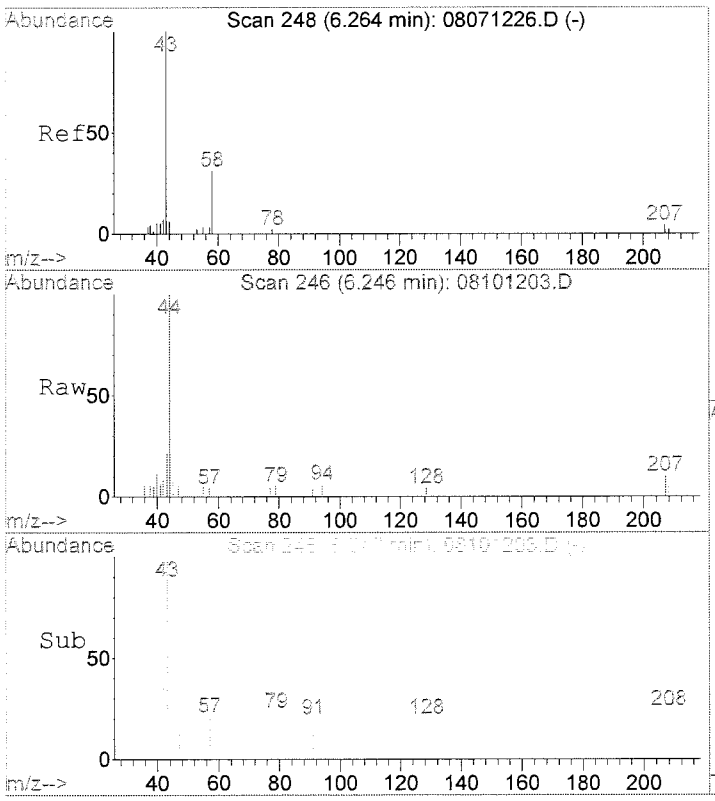


#9
Bromomethane
Concen: 0.15 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	73.6	110.4#

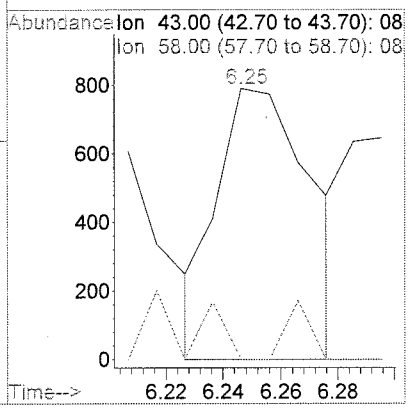


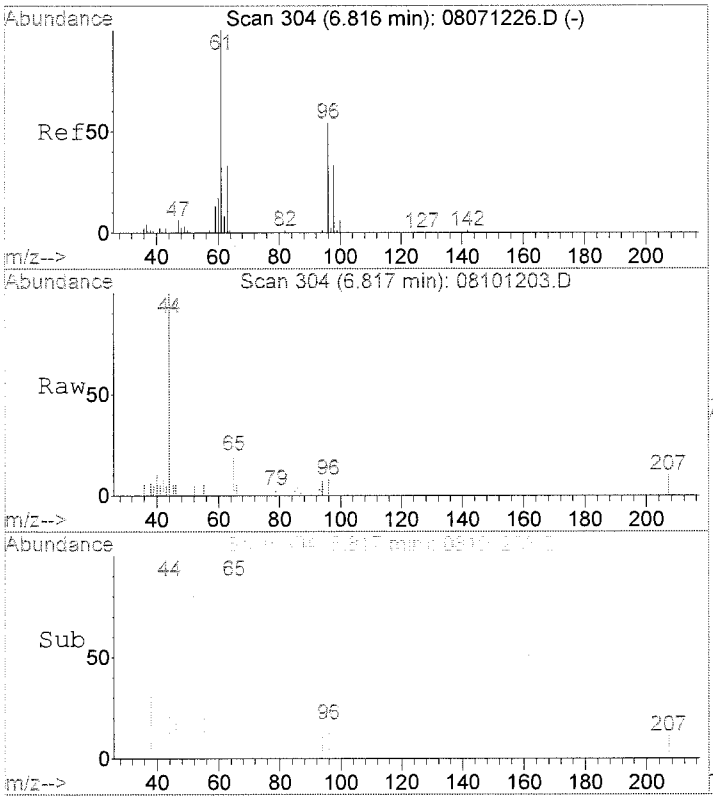


#12
Acetone
Concen: 1.44 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	19.5	29.3#

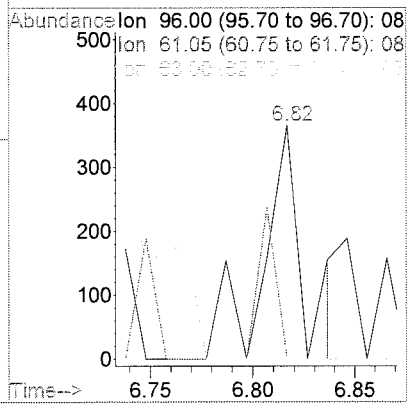


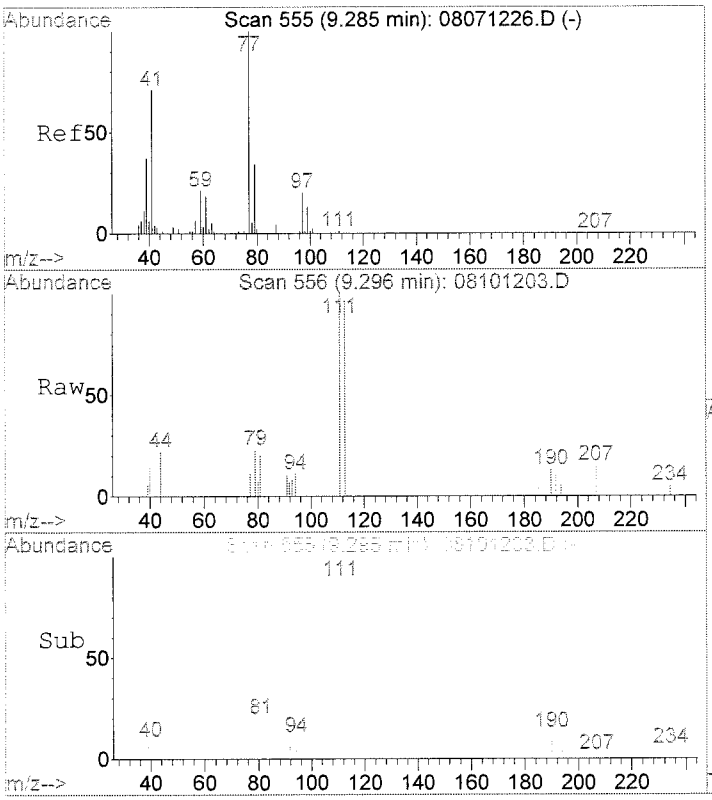


#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 6.82 min Scan# 304
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 96 Resp: 491

Ion	Ratio	Lower	Upper
96	100		
61	28.5	156.4	234.6#
63	0.0	51.6	77.4#

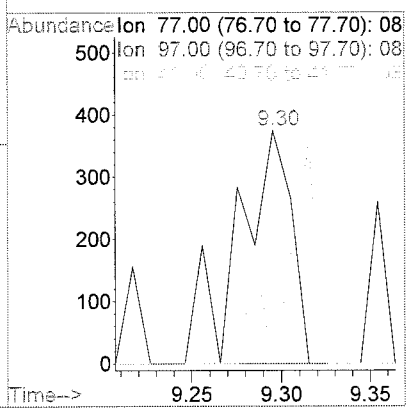


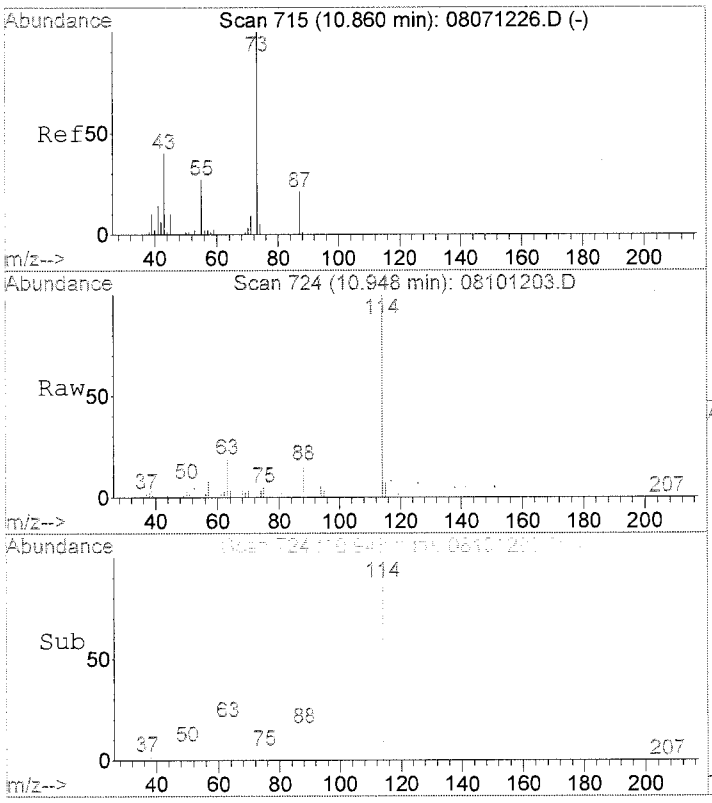


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.2	24.2#
41	52.9	85.4	128.2#

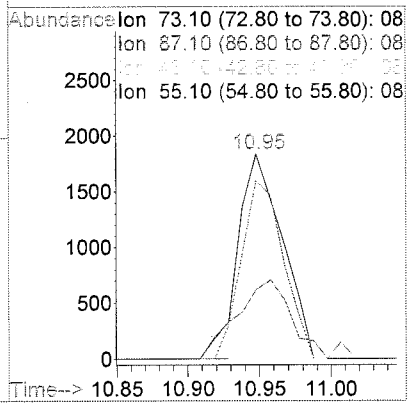


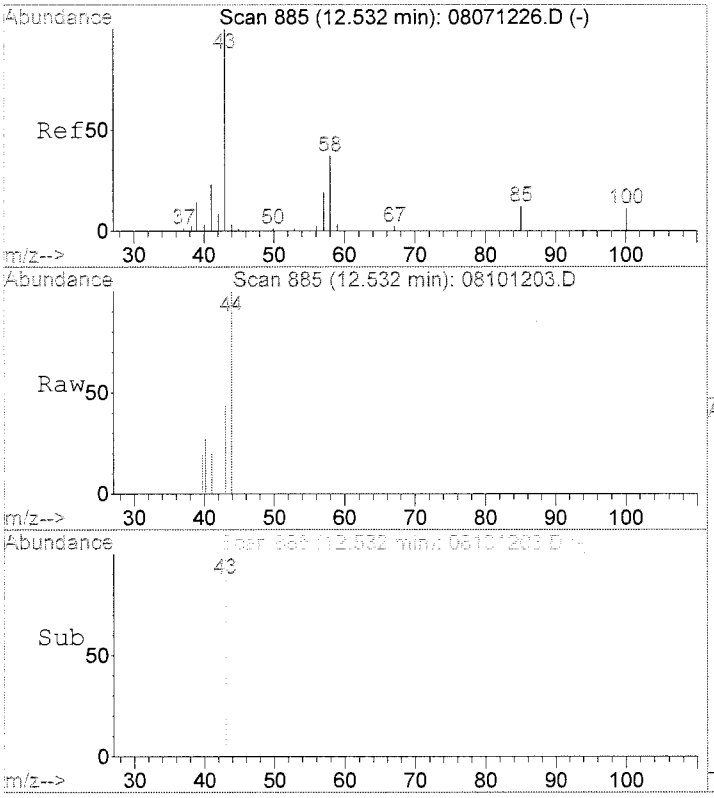


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	17.0	25.4#
43	5.7	32.2	48.4#
55	46.5	21.4	32.0#

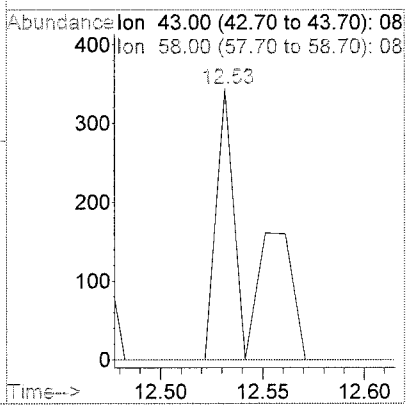


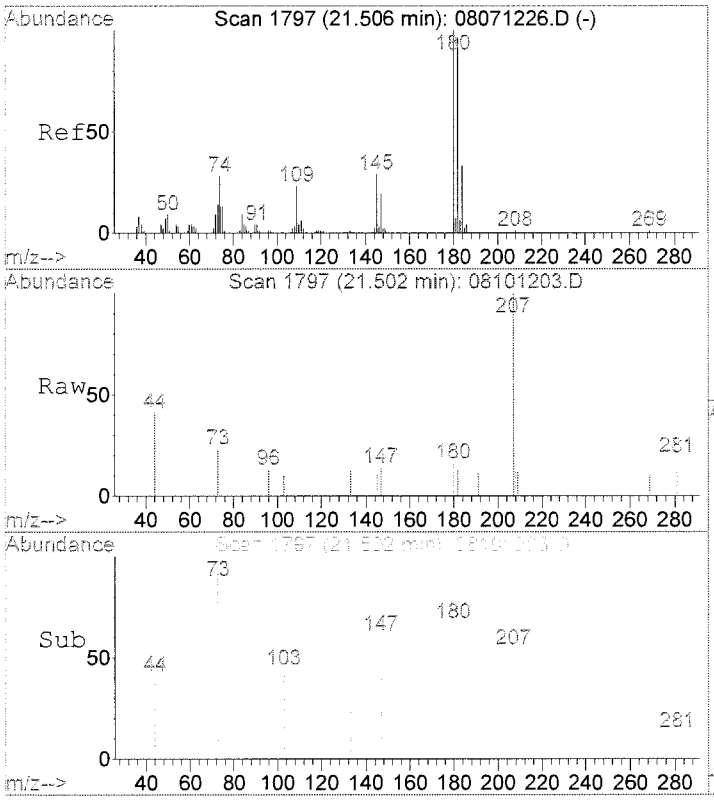


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.11 ug/L
RT: 12.53 min Scan# 885
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.5	42.7#

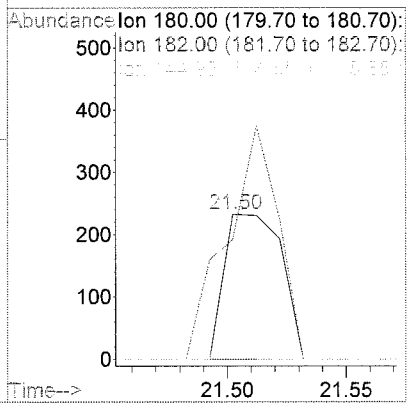


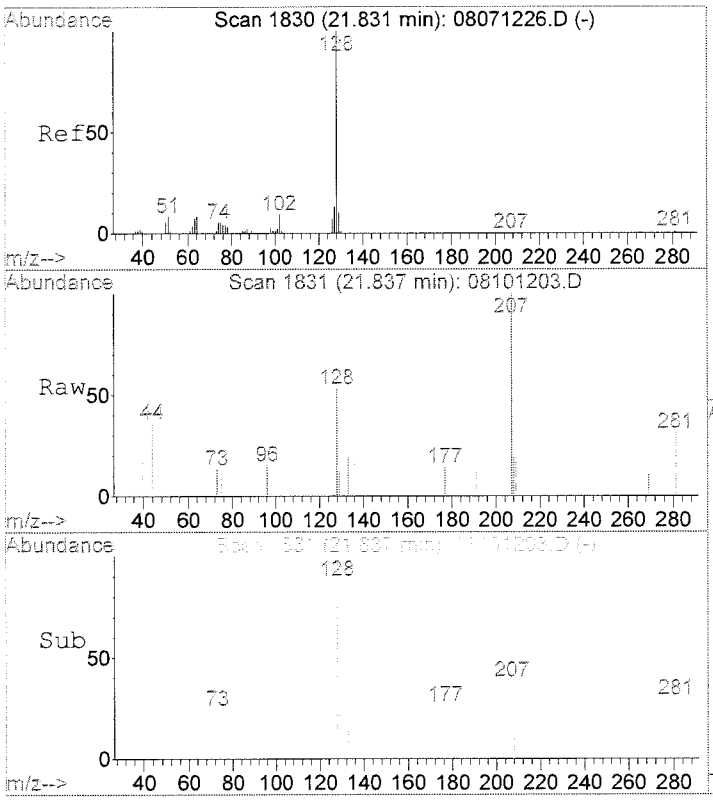


#83
1,2,4-Trichlorobenzene
Concen: 0.12 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	75.4	113.0#
145	25.5	21.9	32.9

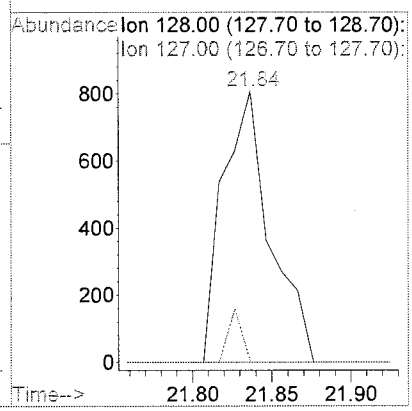




#84
Napthalene
Concen: 0.34 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

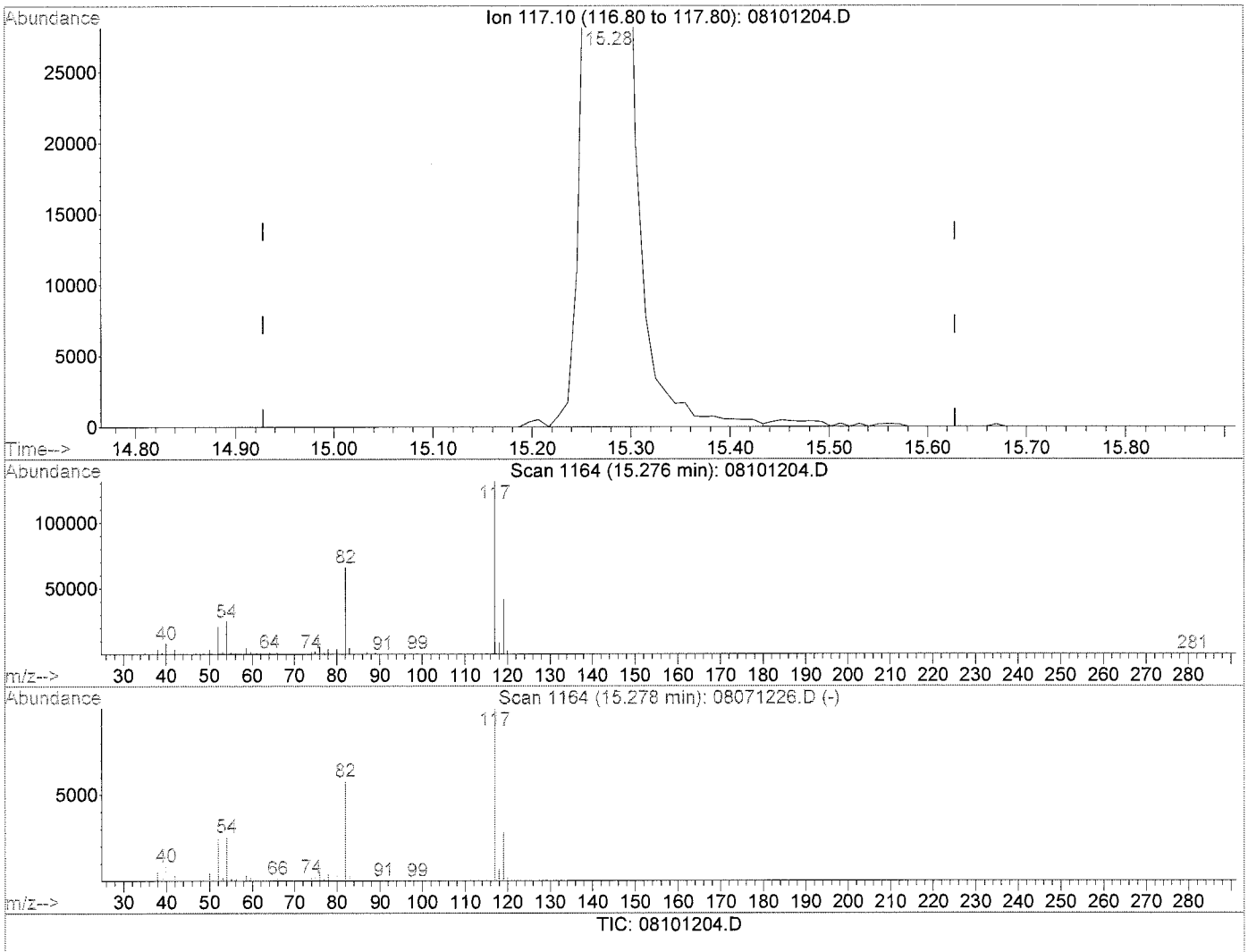
Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.2#



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

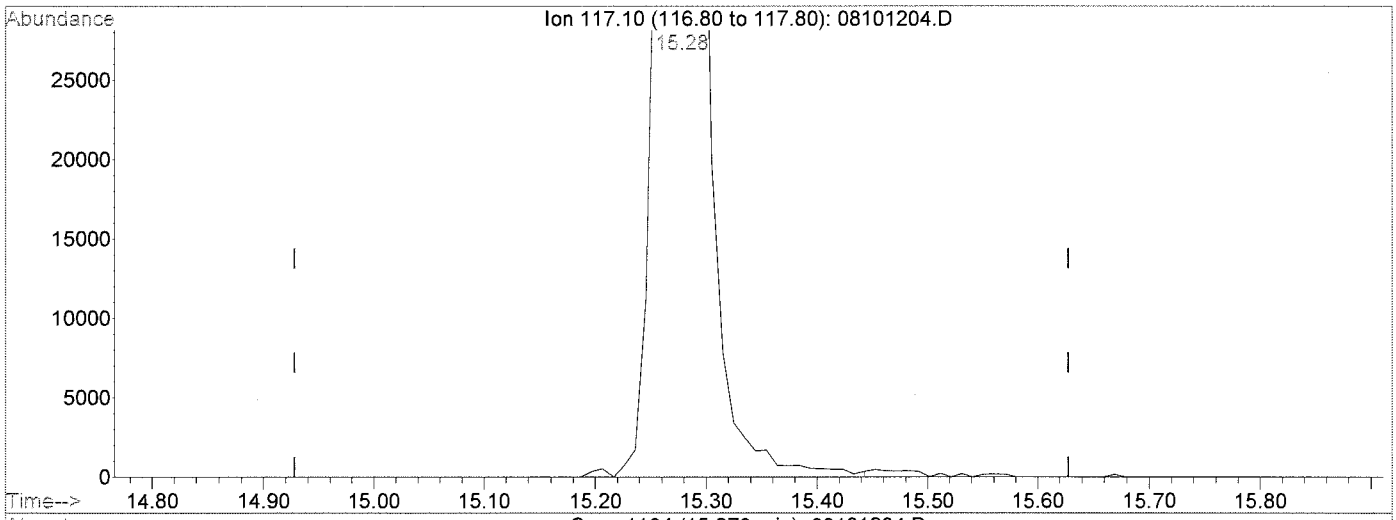
8/13/12

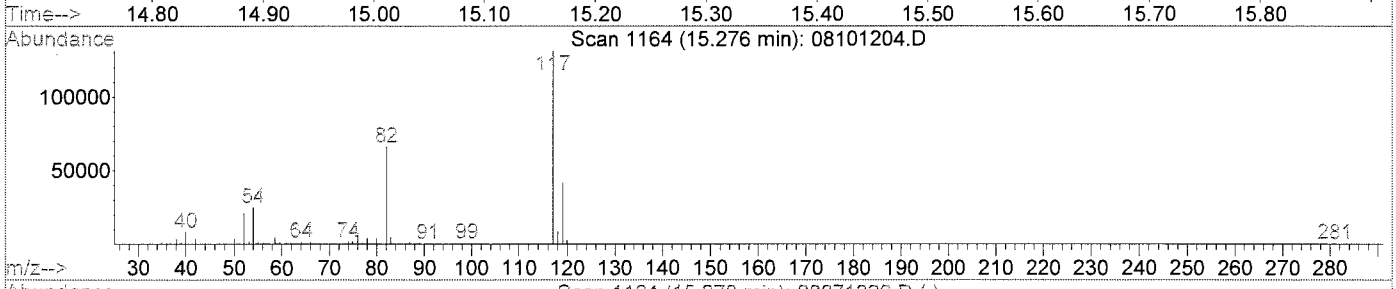
B CE MM 8/13/12

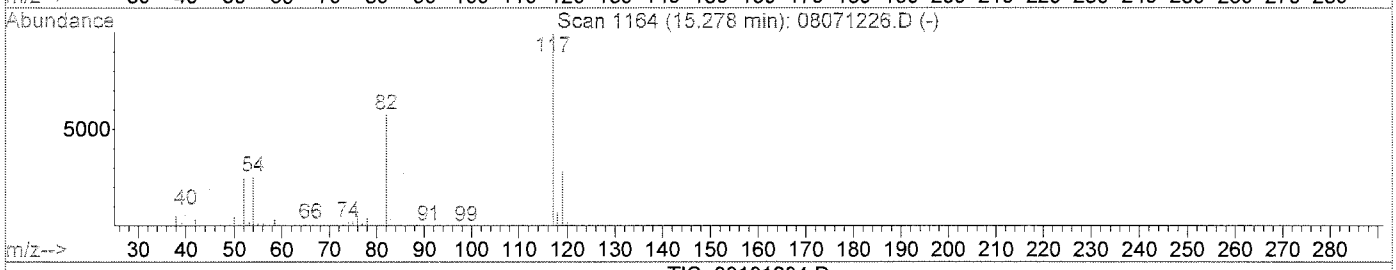
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285431

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285431m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.16%	
48) Toluene-d8	13.33	98	8308	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.36%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.20%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.55 ug/L	100
6) Chloromethane	4.35	50	5533	0.52 ug/L	95
7) Vinyl Chloride	4.63	62	5041	0.61 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.47 ug/L #	91
11) Trichlorofluoromethane	6.11	101	4136	0.47 ug/L	91
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.51 ug/L #	88
14) 1,1-Dichloroethene	6.81	96	3218	0.62 ug/L #	74
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	73
16) Freon 113	7.08	101	3192	0.55 ug/L	96
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	22
18) trans-1,2-Dichloroethene	7.86	96	3858	0.69 ug/L #	73
19) MTBE	8.01	73	4605	0.51 ug/L	99
20) 1,1-Dichloroethane	8.18	63	5100	0.53 ug/L #	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.57 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.54 ug/L #	84
25) cis-1,2-Dichloroethene	8.91	96	3145	0.63 ug/L #	77
26) Bromochloromethane	9.13	128	1212	0.58 ug/L	95
27) Chloroform	9.17	83	4473	0.54 ug/L #	86
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.55 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.41 ug/L #	92
33) 1,1,1-Trichloroethane	10.14	97	3906	0.55 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.63 ug/L #	91
36) 1,1-Dichloropropene	10.37	75	4256	0.53 ug/L #	76
37) Carbon Tetrachloride	10.60	117	3505	0.50 ug/L #	96
38) Benzene	10.66	78	10648	0.57 ug/L #	90
39) Dibromomethane	11.40	93	1079	0.48 ug/L	92
40) 1,2-Dichloropropane	11.43	63	2436	0.53 ug/L	88

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	2807	0.54 ug/L		98
42)	Bromodichloromethane	11.55	83	2375	0.41 ug/L	#	91
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d		
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.50 ug/L		88
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d		
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.75 ug/L	#	81
47)	1,1,2-Trichloroethane	13.17	97	939	0.36 ug/L	#	86
49)	Toluene	13.43	92	5962	0.60 ug/L	#	96
51)	1,3-Dichloropropane	13.49	76	2084	0.43 ug/L	#	85
52)	2-Hexanone	0.00	43	0	N.D. d		
53)	Dibromochloromethane	13.85	129	1416	0.40 ug/L		91
54)	1,2-Dibromoethane	14.18	107	1351	0.49 ug/L		96
55)	Tetrachloroethene	14.41	164	2667	0.57 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.55 ug/L	#	1
57)	Chlorobenzene	15.32	112	5746	0.57 ug/L		93
58)	Ethylbenzene	15.58	91	10303	0.56 ug/L		98
59)	m,p-Xylenes	15.84	106	3739	0.56 ug/L		90
60)	Styrene	16.30	104	5068	0.58 ug/L	#	90
61)	o-Xylene	16.40	106	3948	0.65 ug/L	#	89
64)	Bromoform	16.01	173	894	0.59 ug/L		91
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.54 ug/L	#	88
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	16.90	105	9688	0.59 ug/L		97
69)	Bromobenzene	17.24	156	2141	0.50 ug/L		90
70)	n-Propylbenzene	17.51	91	12373	0.59 ug/L		93
71)	2-Chlorotoluene	17.65	91	6496	0.53 ug/L		99
72)	4-Chlorotoluene	17.75	91	6322	0.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.57 ug/L		95
74)	tert-Butylbenzene	18.31	119	6960	0.60 ug/L		90
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.58 ug/L		91
76)	sec-Butylbenzene	18.61	105	11286	0.64 ug/L		94
77)	1,3-Dichlorobenzene	18.72	146	4471	0.62 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	4553	0.67 ug/L	#	89
79)	p-Isopropyltoluene	18.86	119	7691	0.59 ug/L	#	94
80)	1,2-Dichlorobenzene	19.28	146	3801	0.65 ug/L		96
81)	n-Butylbenzene	19.40	91	7498	0.62 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.66 ug/L	#	90
84)	Napthalene	21.83	128	3246	0.68 ug/L	#	75
85)	Hexachlorobutadiene	21.89	225	1870	0.72 ug/L	#	79
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.69 ug/L	#	82

9

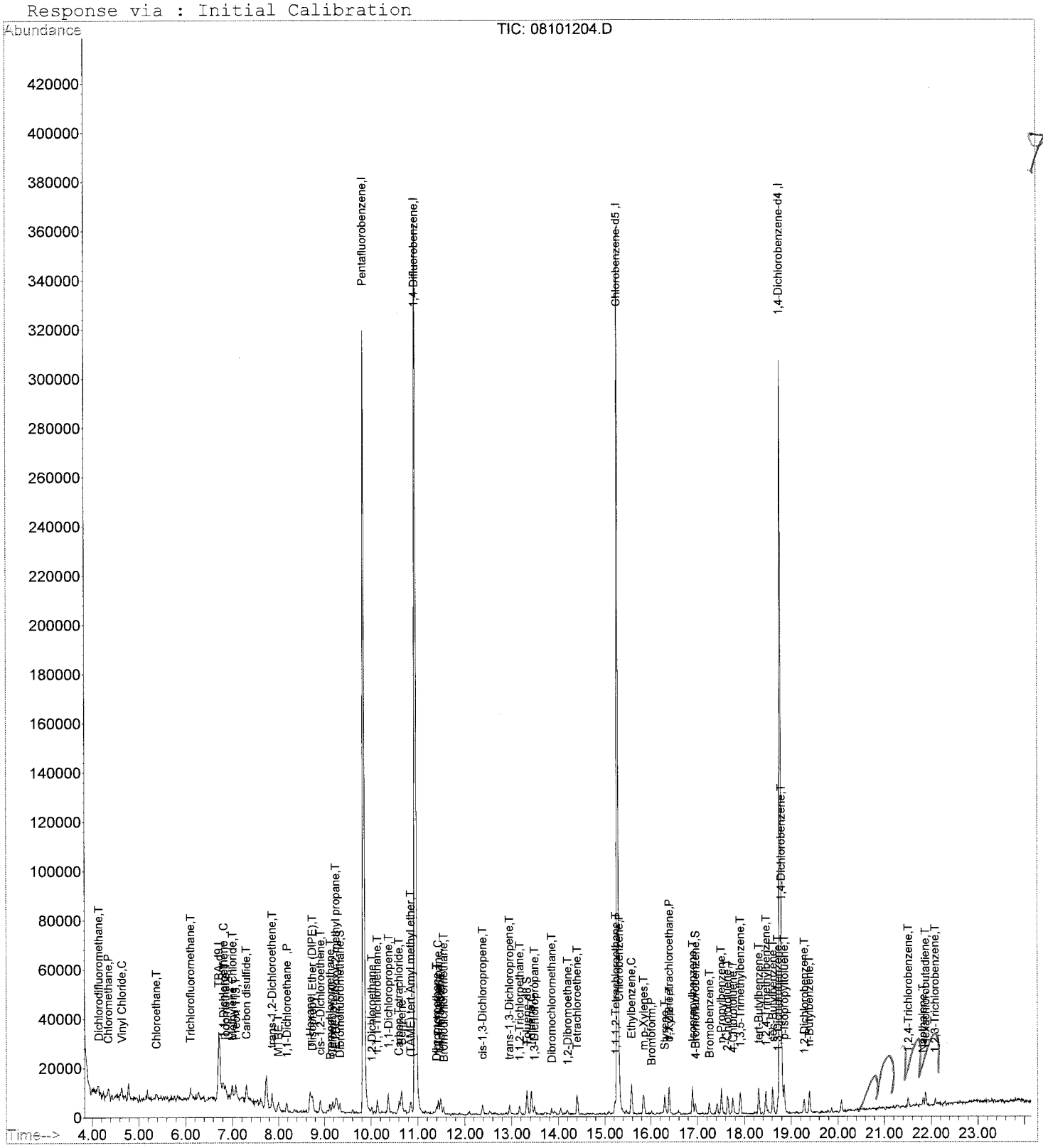
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

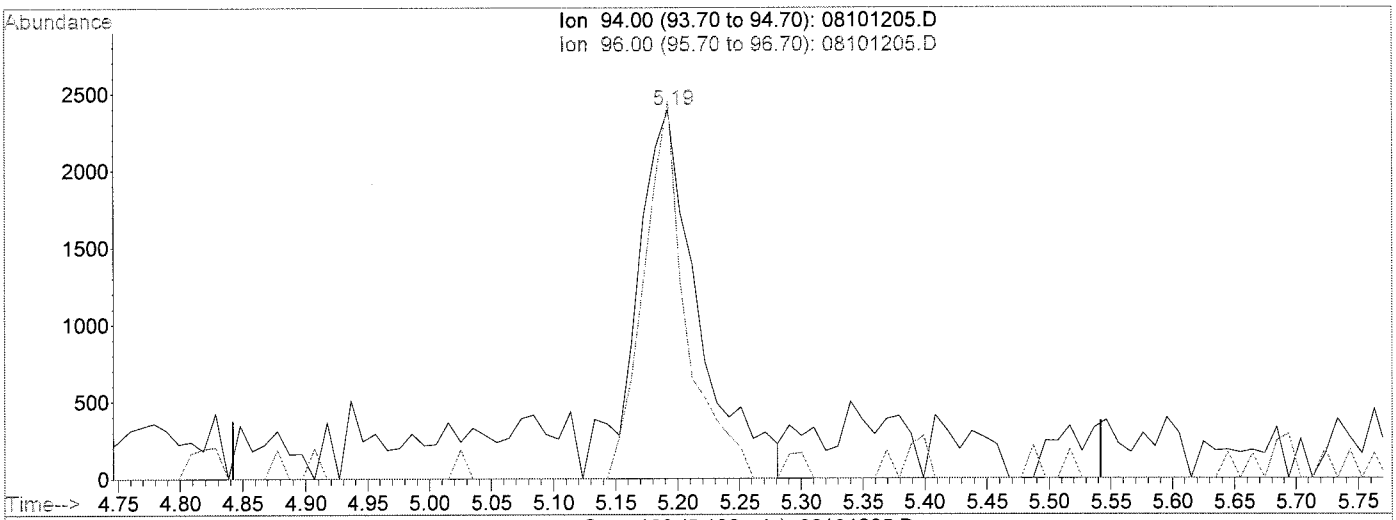


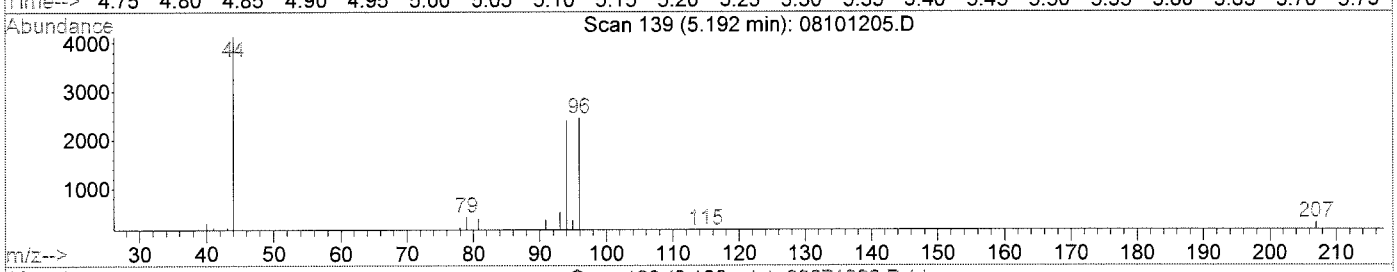
08101204.D 080712.M Fri Aug 10 09:42:40 2012

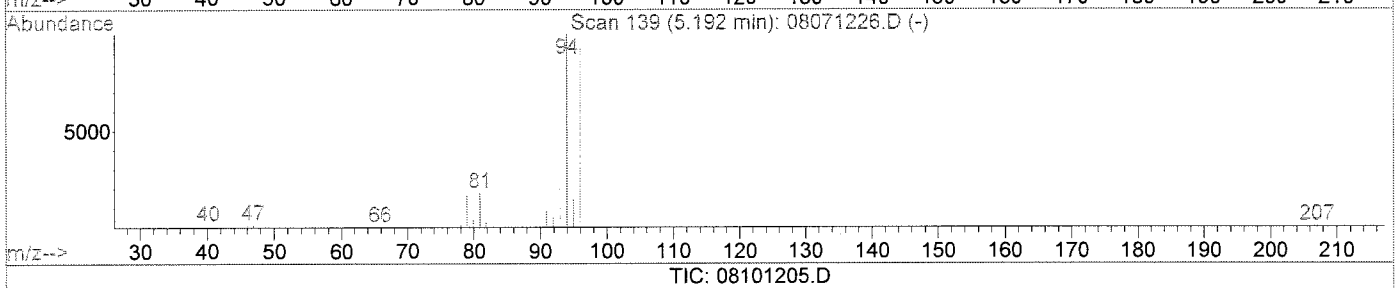
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.58ug/L

response 8343

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

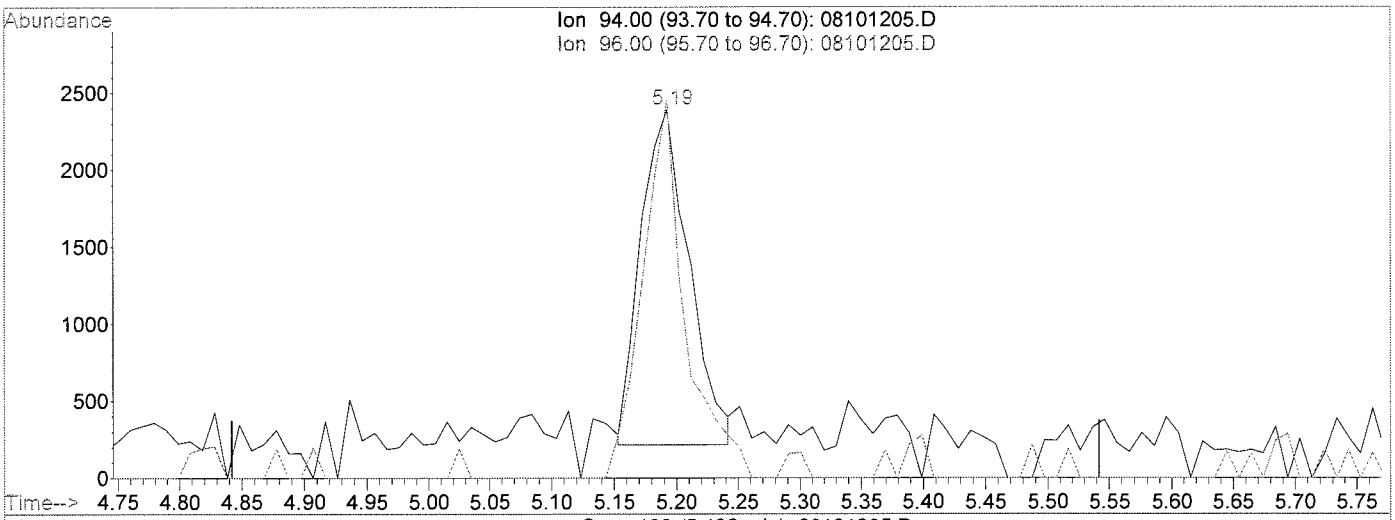
8/13/12

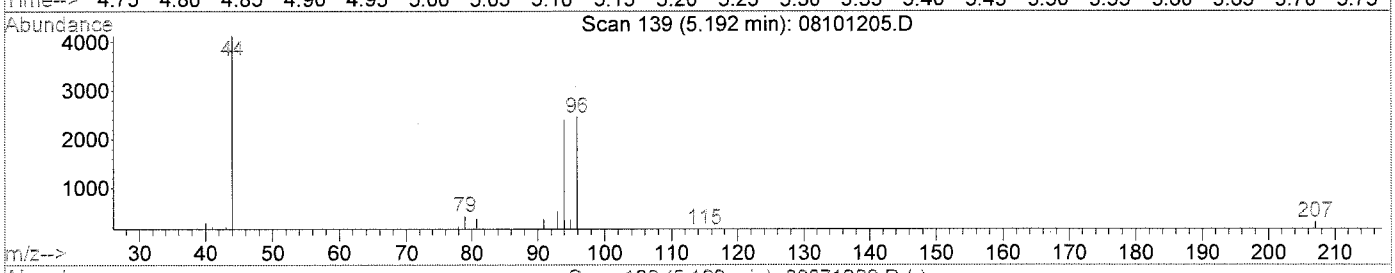
B
BL
MM 8/13/12

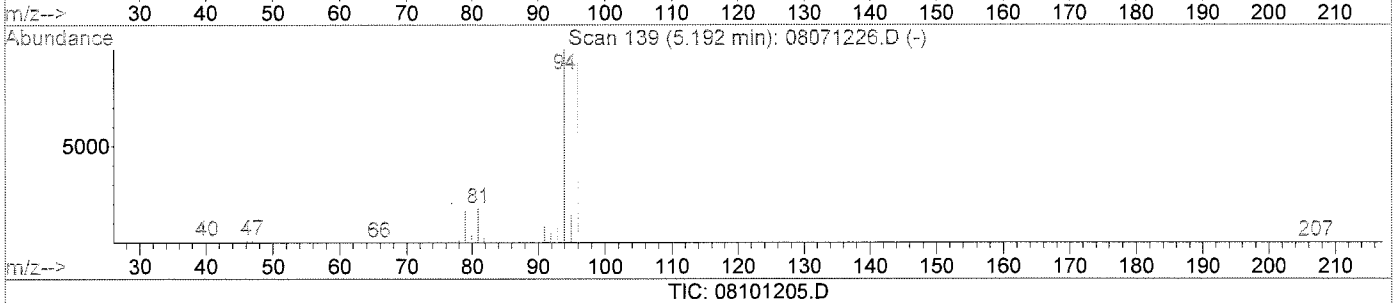
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.11ug/L m

response 5854

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	100.12
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

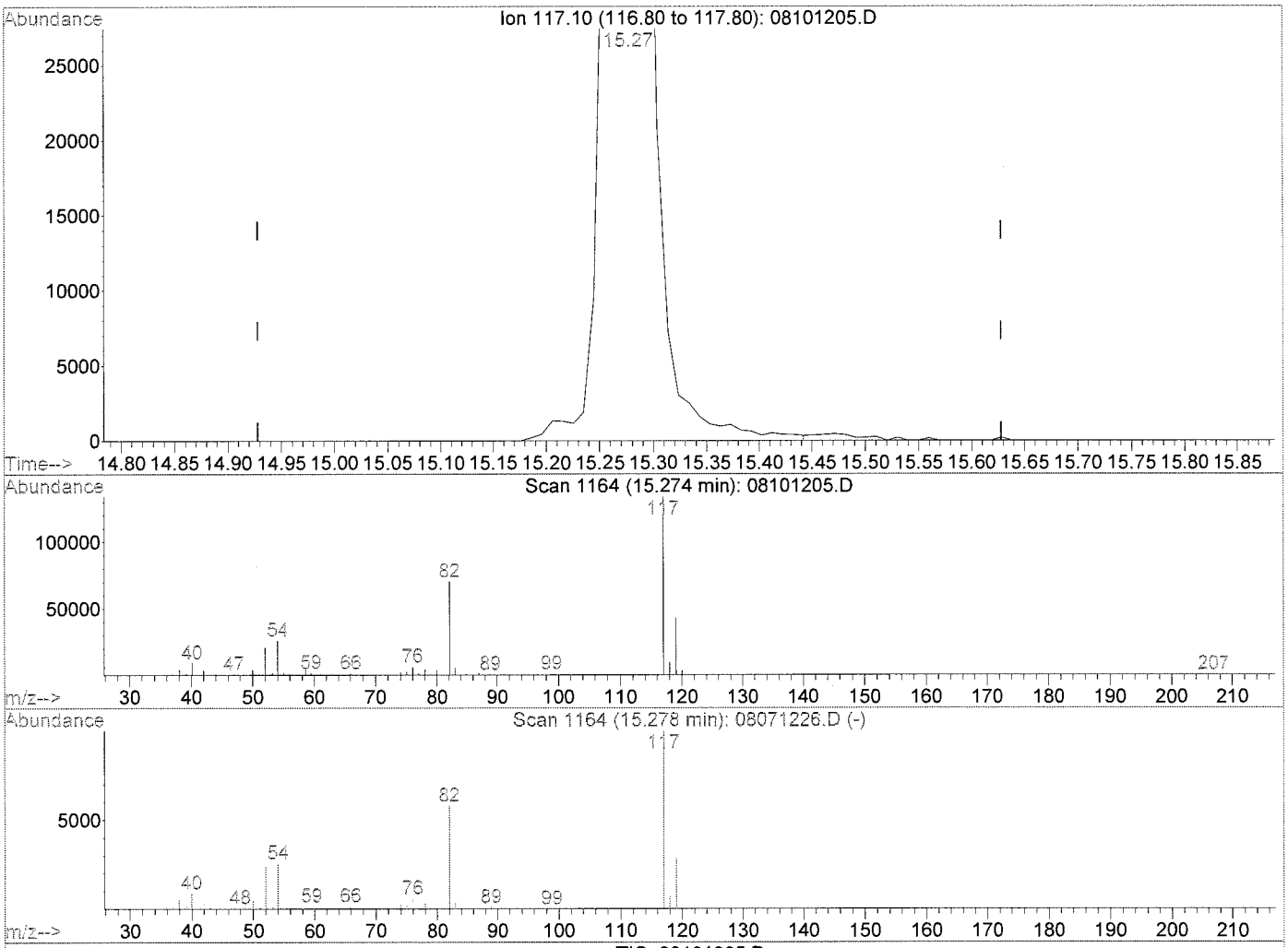
A

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

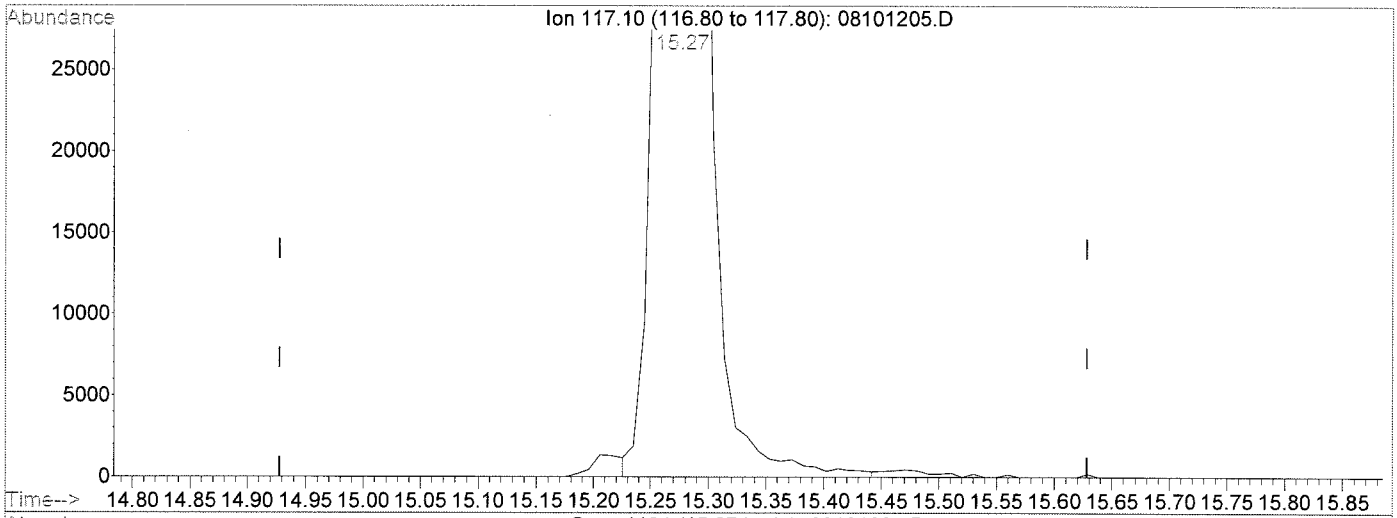
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

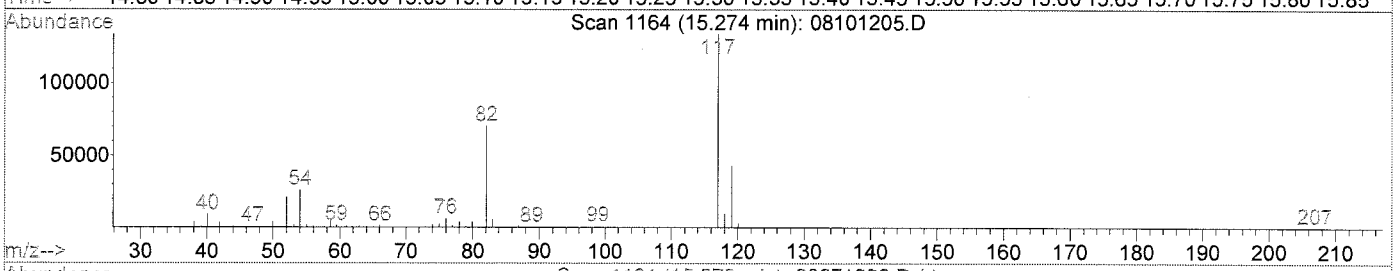
B CE mm 8/13/12

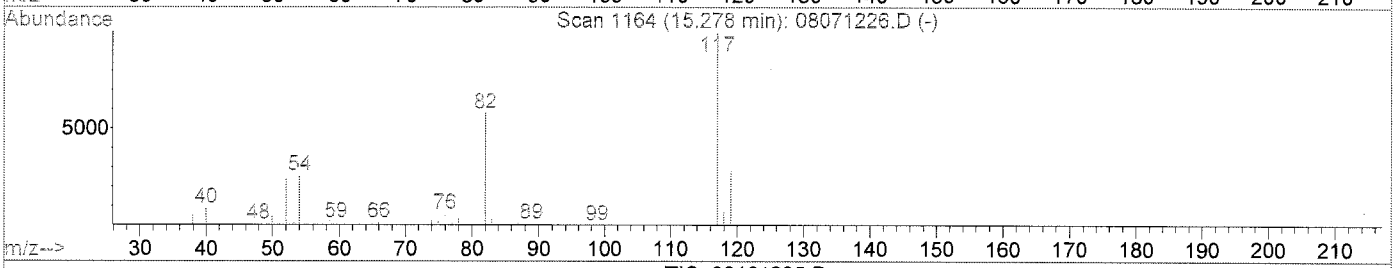
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 289717

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	~~Dev~~(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	289717m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.76%	
48) Toluene-d8	13.33	98	15044	1.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.08%	
62) 4-Bromofluorobenzene	16.96	95	4337	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.06 ug/L	99
6) Chloromethane	4.36	50	11345	1.09 ug/L	100
7) Vinyl Chloride	4.63	62	9613	1.17 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	1.02 ug/L #	77
9) Bromomethane	5.19	94	5854m	1.11 ug/L	
10) Chloroethane	5.38	64	4474	0.99 ug/L #	77
11) Trichlorofluoromethane	6.11	101	8147	0.94 ug/L	94
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.10 ug/L	92
14) 1,1-Dichloroethene	6.82	96	6624	1.30 ug/L #	60
15) Methylene Chloride	6.99	84	5669	1.12 ug/L #	80
16) Freon 113	7.06	101	5907	1.03 ug/L	94
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	97
18) trans-1,2-Dichloroethene	7.86	96	6803	1.23 ug/L	82
19) MTBE	8.00	73	9909	1.11 ug/L	95
20) 1,1-Dichloroethane	8.18	63	10543	1.12 ug/L	98
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.31 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.15 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	6451	1.32 ug/L	87
26) Bromochloromethane	9.12	128	2129	1.03 ug/L	91
27) Chloroform	9.18	83	8439	1.04 ug/L #	86
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.08 ug/L #	90
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	0.98 ug/L	95
33) 1,1,1-Trichloroethane	10.14	97	6935	0.98 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	1.10 ug/L #	92
36) 1,1-Dichloropropene	10.38	75	8845	1.05 ug/L	97
37) Carbon Tetrachloride	10.61	117	6413	0.87 ug/L	95
38) Benzene	10.66	78	20457	1.05 ug/L #	90
39) Dibromomethane	11.39	93	2452	1.04 ug/L	91
40) 1,2-Dichloropropane	11.44	63	5094	1.07 ug/L #	84

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.99 ug/L	92
42)	Bromodichloromethane	11.56	83	5117	0.86 ug/L #	95
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.98 ug/L #	88
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	0.98 ug/L	99
46)	trans-1,3-Dichloropropene	12.96	75	4943	1.19 ug/L #	84
47)	1,1,2-Trichloroethane	13.17	97	2959	1.08 ug/L	87
49)	Toluene	13.42	92	10896	1.05 ug/L #	96
51)	1,3-Dichloropropane	13.49	76	5303	1.07 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.95 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	1.03 ug/L	99
55)	Tetrachloroethene	14.41	164	4967	1.04 ug/L	92
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.97 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	1.06 ug/L	88
58)	Ethylbenzene	15.58	91	20863	1.12 ug/L	97
59)	m,p-Xylenes	15.84	106	7380	1.10 ug/L	98
60)	Styrene	16.30	104	9553	1.09 ug/L #	93
61)	o-Xylene	16.40	106	7004	1.14 ug/L	92
64)	Bromoform	16.02	173	1913	1.04 ug/L	96
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	1.03 ug/L #	98
66)	1,2,3-Trichloropropane	16.58	110	765	0.92 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	1.05 ug/L	99
69)	Bromobenzene	17.25	156	4047	0.92 ug/L	98
70)	n-Propylbenzene	17.51	91	22751	1.06 ug/L	95
71)	2-Chlorotoluene	17.65	91	12533	1.00 ug/L	95
72)	4-Chlorotoluene	17.75	91	12326	1.04 ug/L	100
73)	1,3,5-Trimethylbenzene	17.91	105	13867	1.05 ug/L	97
74)	tert-Butylbenzene	18.30	119	12547	1.05 ug/L	88
75)	1,2,4-Trimethylbenzene	18.46	105	13204	1.06 ug/L	98
76)	sec-Butylbenzene	18.61	105	19700	1.09 ug/L	95
77)	1,3-Dichlorobenzene	18.72	146	7952	1.07 ug/L	96
78)	1,4-Dichlorobenzene	18.81	146	7762	1.11 ug/L #	92
79)	p-Isopropyltoluene	18.85	119	15724	1.17 ug/L	96
80)	1,2-Dichlorobenzene	19.28	146	6825	1.13 ug/L	93
81)	n-Butylbenzene	19.40	91	14669	1.18 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.98 ug/L #	84
84)	Napthalene	21.83	128	6316	1.29 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.97 ug/L	99
86)	1,2,3-Trichlorobenzene	22.09	180	2981	1.11 ug/L	92

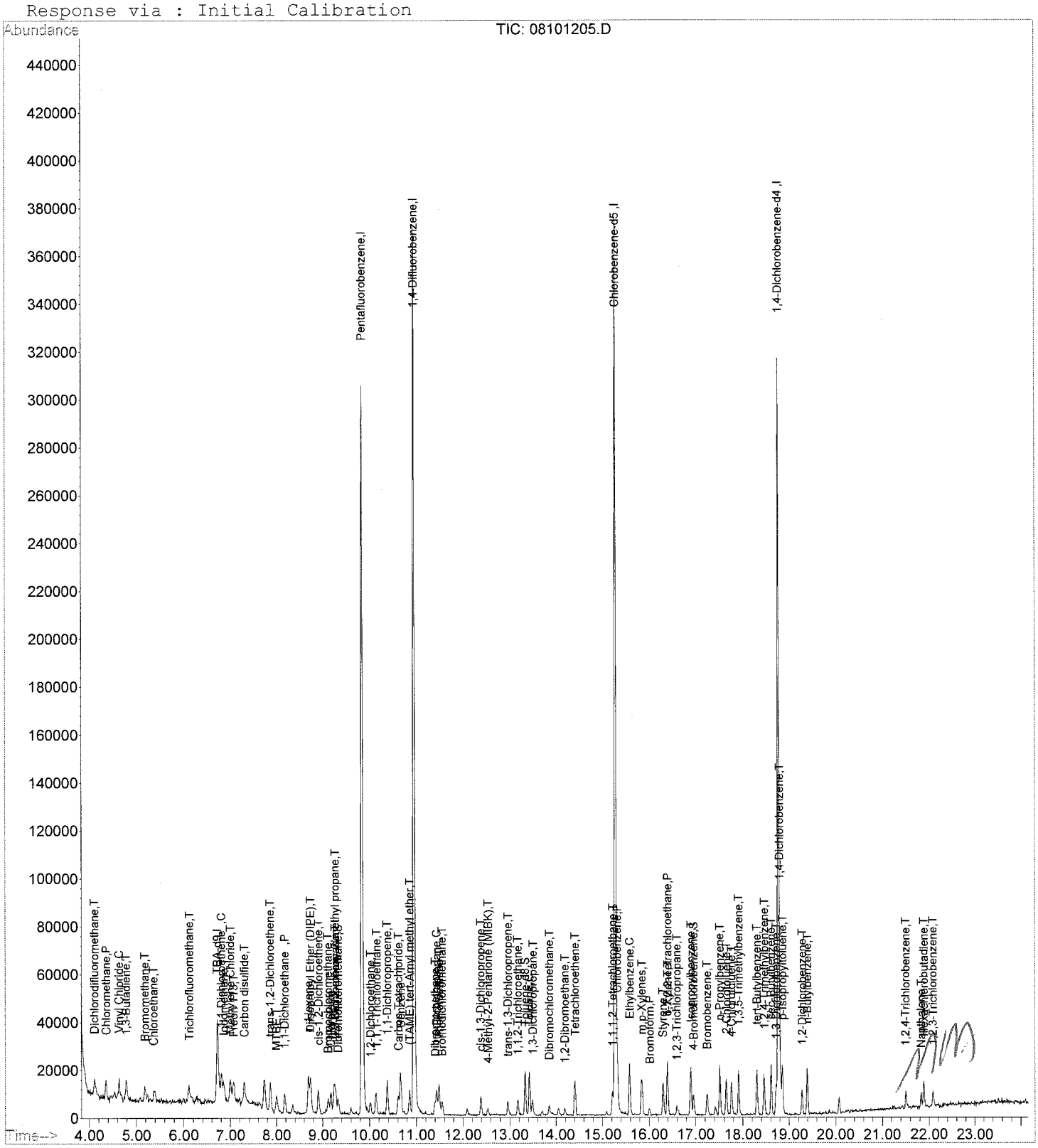
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

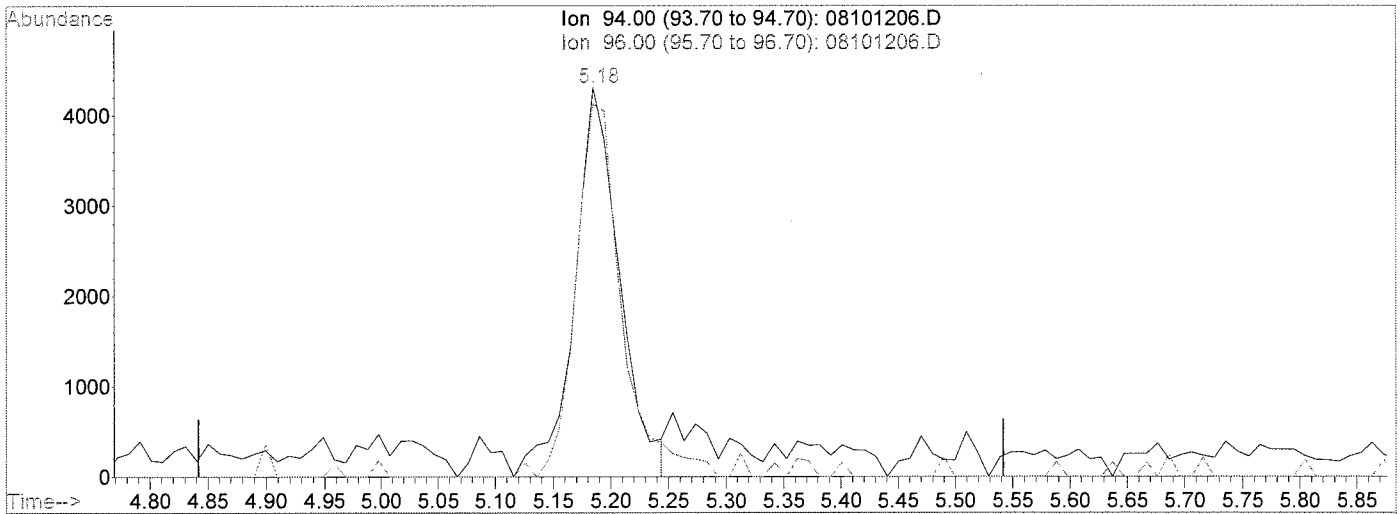
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

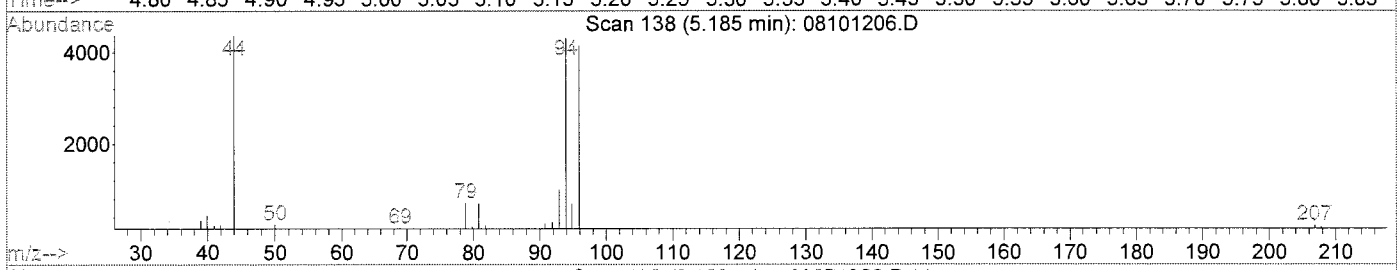


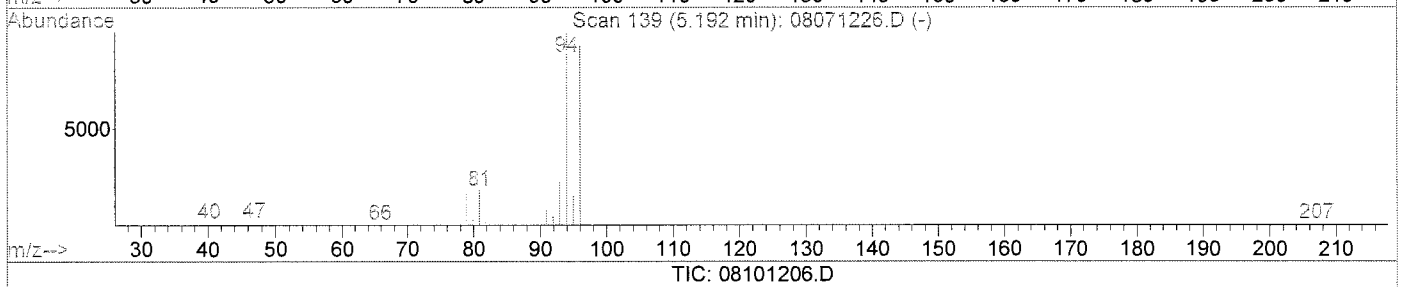
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.25ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

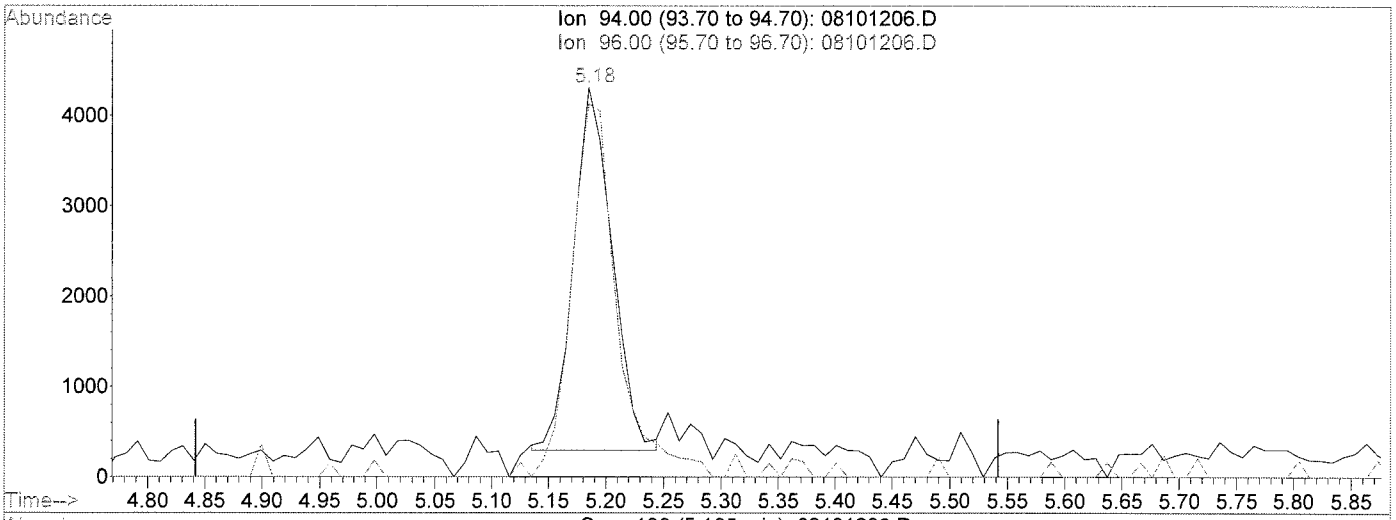
BL

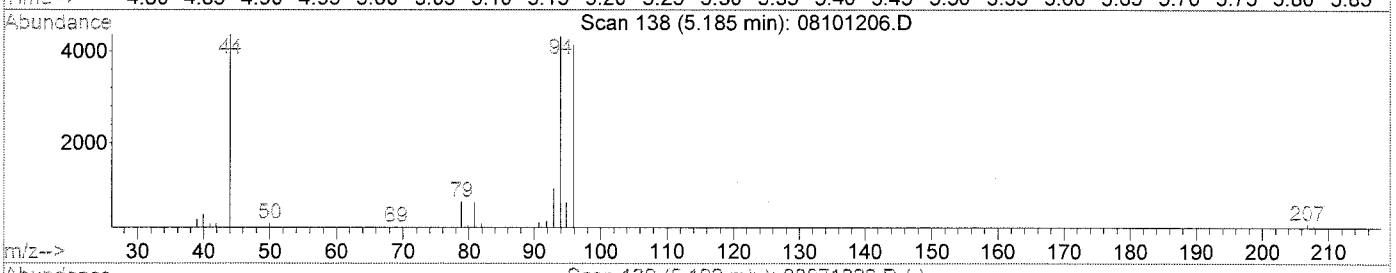
MM 8/13/12

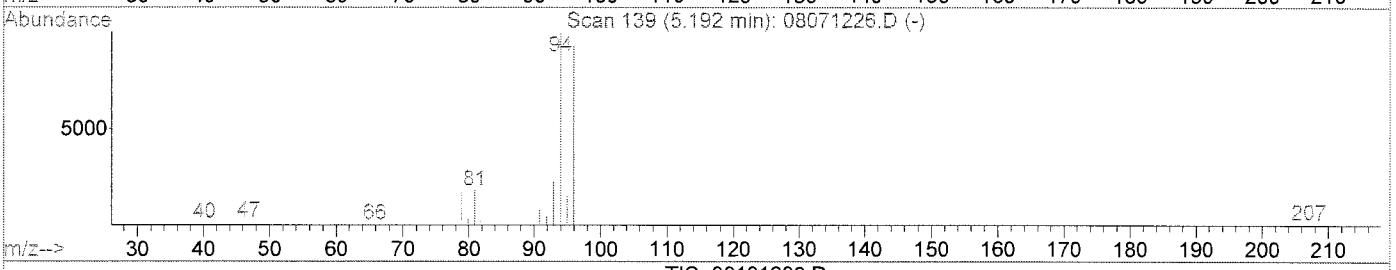
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.81ug/L m

response 9480

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	122.20#
0.00	0.00	0.00
0.00	0.00	0.00

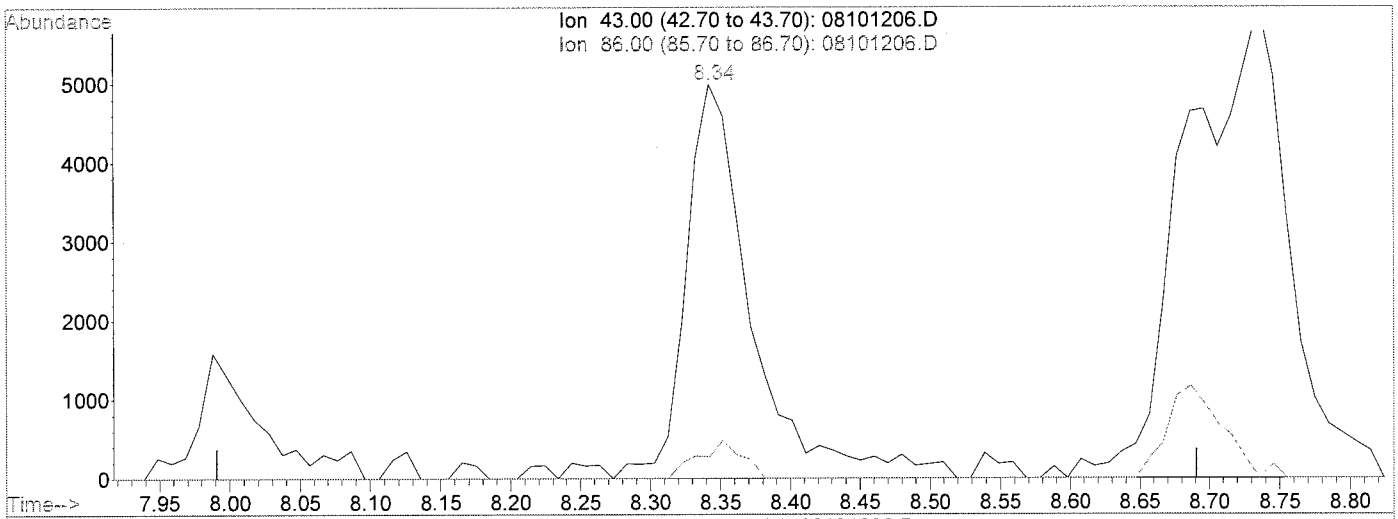
A

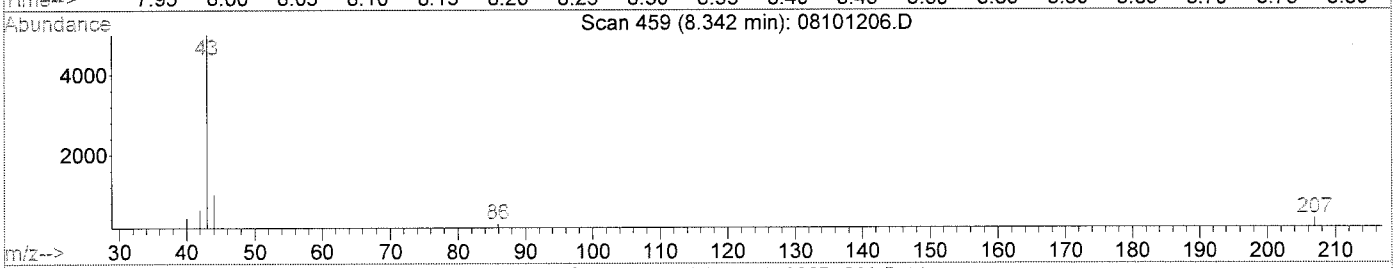
MM 8/13/12

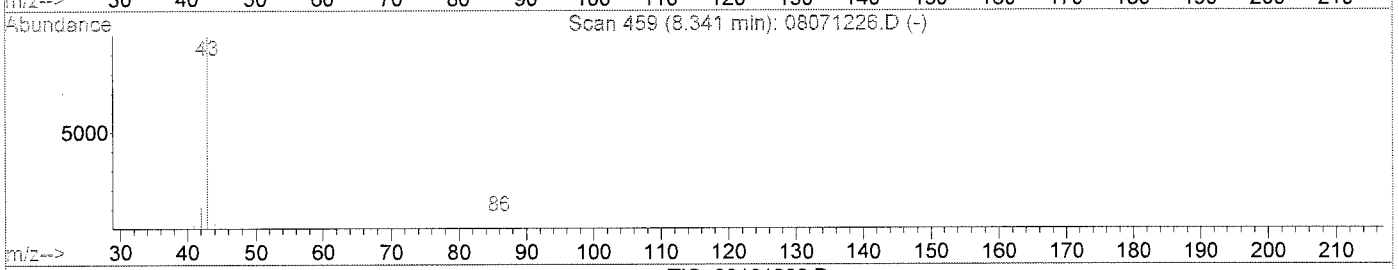
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

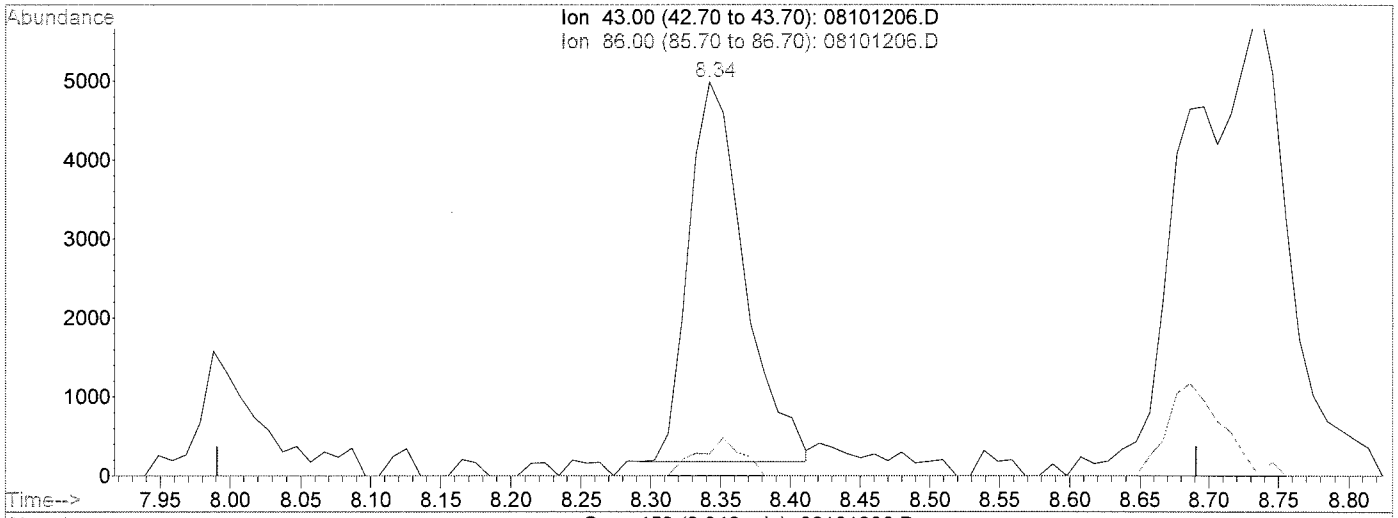
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	6.41
0.00	0.00	0.00
0.00	0.00	0.00

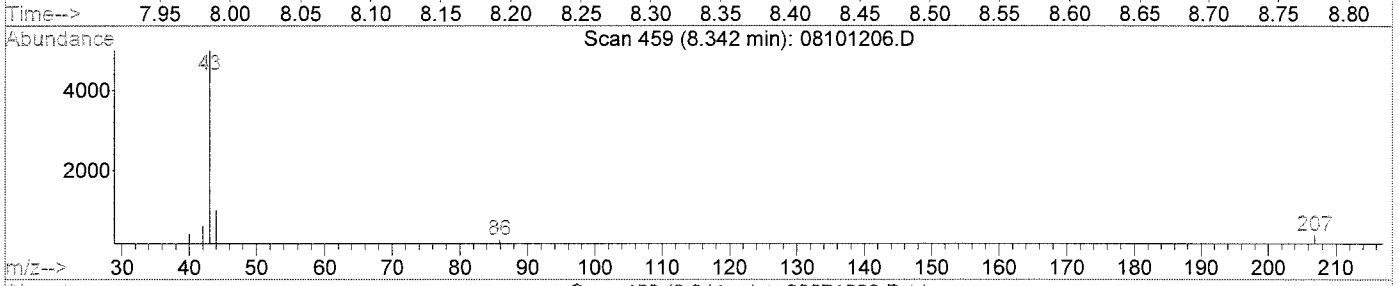
B
BL
MM 8/13/12

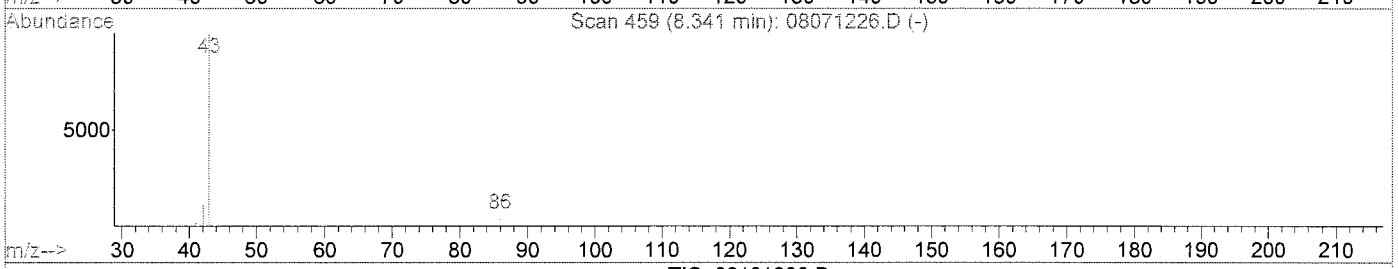
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 1.84ug/L m

response 13334

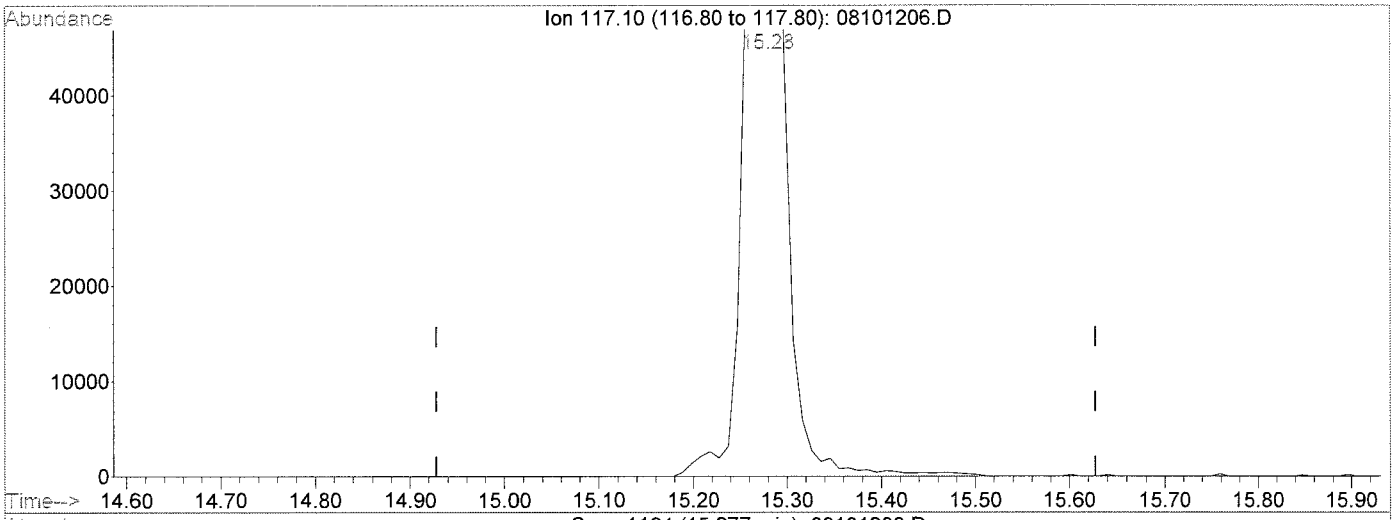
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	7.85#
0.00	0.00	0.00
0.00	0.00	0.00

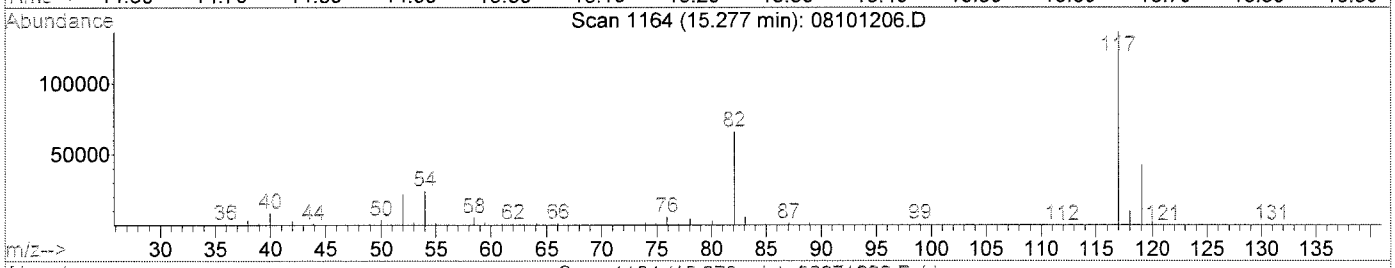
A
MM 8/13/12

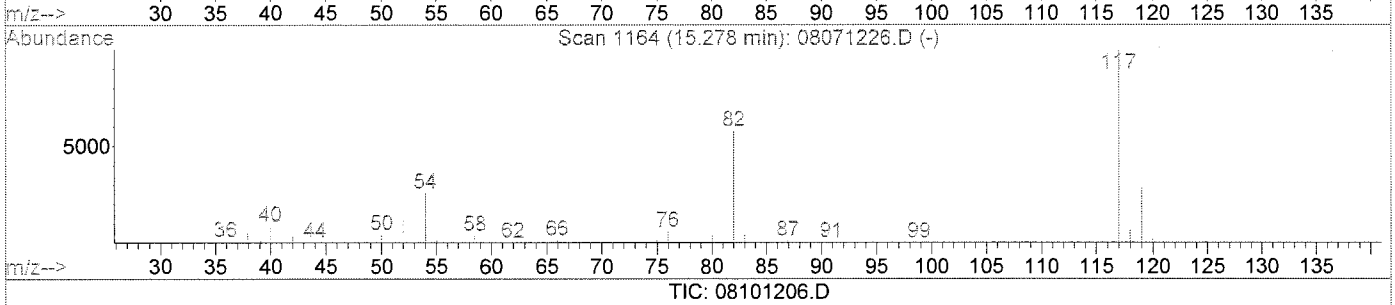
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

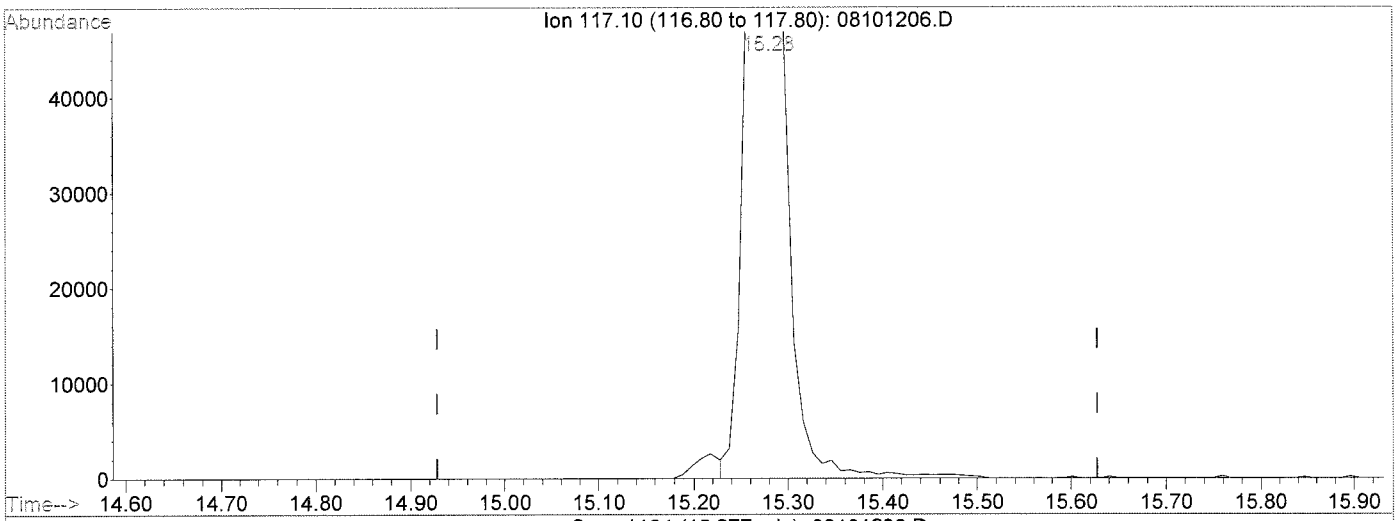
B 8/13/12

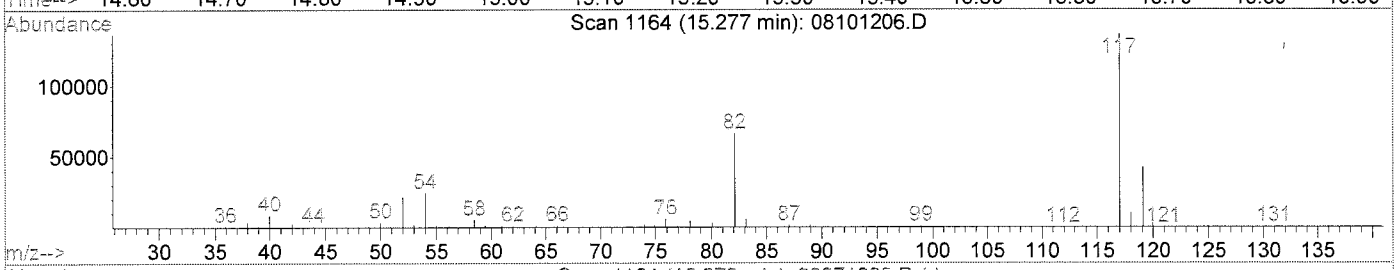
CE MM 8/13/12

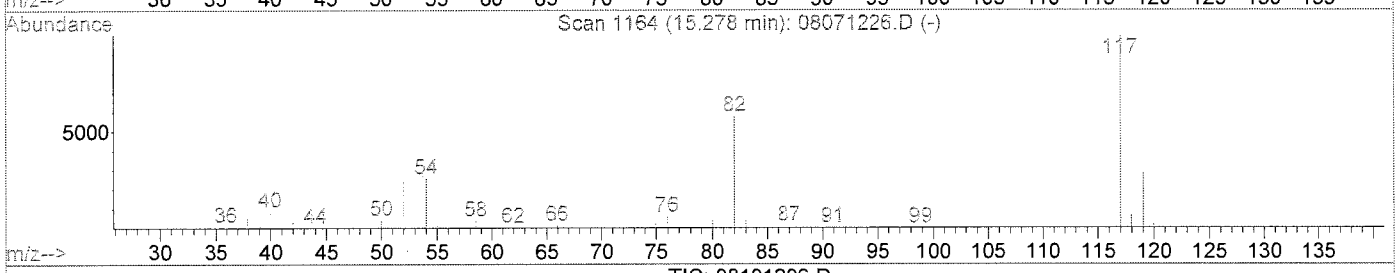
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293333

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293333m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 10.24%	
48) Toluene-d8	13.33	98	34659	2.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 9.76%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.21 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 8.84%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.87 ug/L	99
5) Dichlorodifluoromethane	4.11	85	19360	1.94 ug/L	89
6) Chloromethane	4.35	50	19442	1.89 ug/L	100
7) Vinyl Chloride	4.62	62	18295	2.26 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	2.03 ug/L	96
9) Bromomethane	5.18	94	9480m	1.81 ug/L	
10) Chloroethane	5.39	64	9047	2.02 ug/L #	88
11) Trichlorofluoromethane	6.12	101	15106	1.76 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.11 ug/L	91
14) 1,1-Dichloroethene	6.81	96	11692	2.32 ug/L #	73
15) Methylene Chloride	6.99	84	10706	2.13 ug/L #	82
16) Freon 113	7.06	101	11837	2.10 ug/L	96
17) Carbon disulfide	7.30	76	34510	1.87 ug/L #	43
18) trans-1,2-Dichloroethene	7.86	96	12894	2.36 ug/L	91
19) MTBE	8.00	73	18479	2.09 ug/L	95
20) 1,1-Dichloroethane	8.18	63	21203	2.28 ug/L	99
21) Vinyl Acetate	8.34	43	13334m	1.84 ug/L	
22) n-Hexane	8.69	86	3282	2.54 ug/L	72
23) 2-Butanone (MEK)	8.74	72	770	2.37 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.28 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	11373	2.35 ug/L	85
26) Bromochloromethane	9.12	128	4731	2.32 ug/L	94
27) Chloroform	9.17	83	18252	2.26 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.12 ug/L #	76
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.22 ug/L	94
31) Tetrahydrofuran	9.60	72	942	2.91 ug/L #	68
32) 1,2-Dichloroethane	10.01	62	9458	2.01 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	14552	2.09 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	19881	2.24 ug/L #	93
36) 1,1-Dichloropropene	10.37	75	16300	2.01 ug/L	96
37) Carbon Tetrachloride	10.60	117	11980	1.68 ug/L	94
38) Benzene	10.66	78	39625	2.11 ug/L #	89
39) Dibromomethane	11.39	93	4623	2.04 ug/L	94
40) 1,2-Dichloropropane	11.44	63	9870	2.15 ug/L #	84

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.27 ug/L		94
42)	Bromodichloromethane	11.55	83	10648	1.84 ug/L	#	98
43)	2-Chlorovinylethylether	12.09	63	3450	2.67 ug/L	#	89
44)	cis-1,3-Dichloropropene	12.38	75	12256	2.05 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	1.78 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.95 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	5725	2.16 ug/L	#	88
49)	Toluene	13.42	92	23415	2.33 ug/L	#	97
51)	1,3-Dichloropropane	13.49	76	9548	1.91 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.69 ug/L	#	94
53)	Dibromochloromethane	13.85	129	6760	1.86 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.28 ug/L		94
55)	Tetrachloroethene	14.41	164	9734	2.02 ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.95 ug/L		95
57)	Chlorobenzene	15.33	112	23737	2.31 ug/L		99
58)	Ethylbenzene	15.58	91	37962	2.02 ug/L		94
59)	m,p-Xylenes	15.85	106	14006	2.05 ug/L		99
60)	Styrene	16.30	104	19695	2.21 ug/L		93
61)	o-Xylene	16.40	106	12771	2.06 ug/L		98
64)	Bromoform	16.01	173	3623	1.87 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	2.10 ug/L	#	98
66)	1,2,3-Trichloropropane	16.59	110	1480	1.84 ug/L		92
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	3.09 ug/L	#	80
68)	Isopropylbenzene	16.90	105	35158	2.14 ug/L		100
69)	Bromobenzene	17.24	156	8795	2.07 ug/L		92
70)	n-Propylbenzene	17.51	91	42873	2.06 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.13 ug/L		92
72)	4-Chlorotoluene	17.76	91	23403	2.04 ug/L		95
73)	1,3,5-Trimethylbenzene	17.91	105	28001	2.19 ug/L		98
74)	tert-Butylbenzene	18.31	119	24990	2.16 ug/L		95
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.23 ug/L		100
76)	sec-Butylbenzene	18.61	105	41333	2.37 ug/L		100
77)	1,3-Dichlorobenzene	18.72	146	15215	2.12 ug/L		99
78)	1,4-Dichlorobenzene	18.81	146	15598	2.30 ug/L		94
79)	p-Isopropyltoluene	18.86	119	30026	2.30 ug/L		96
80)	1,2-Dichlorobenzene	19.27	146	12959	2.22 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	2.37 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	0.99 ug/L		95
83)	1,2,4-Trichlorobenzene	21.50	180	7014	2.27 ug/L		95
84)	Napthalene	21.83	128	10482	2.21 ug/L		99
85)	Hexachlorobutadiene	21.89	225	5525	1.67 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	5851	2.33 ug/L		98

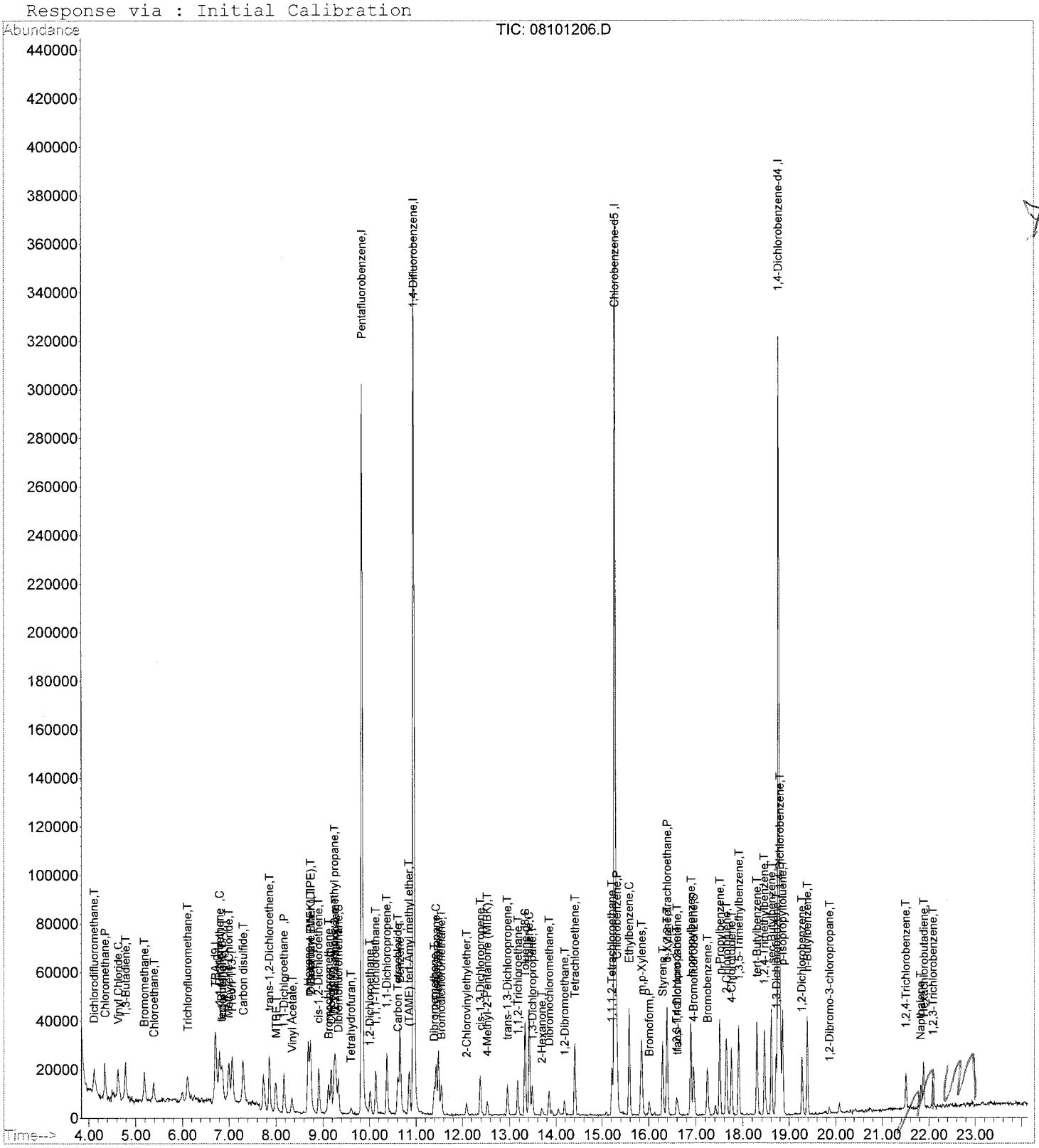
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 080712.M Fri Aug 10 09:46:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

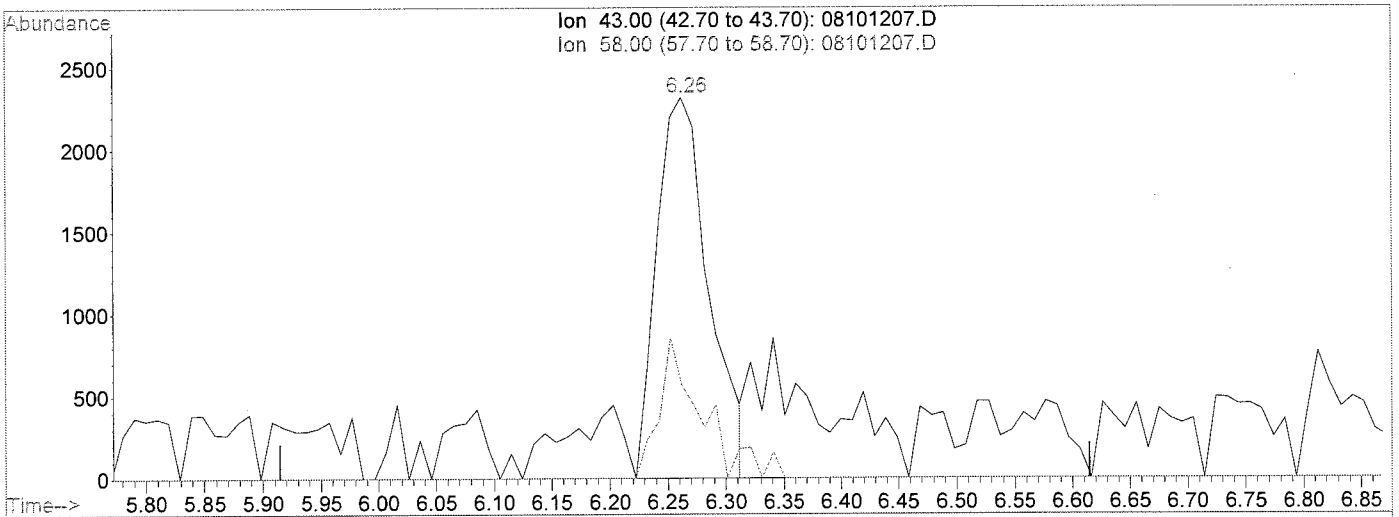
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

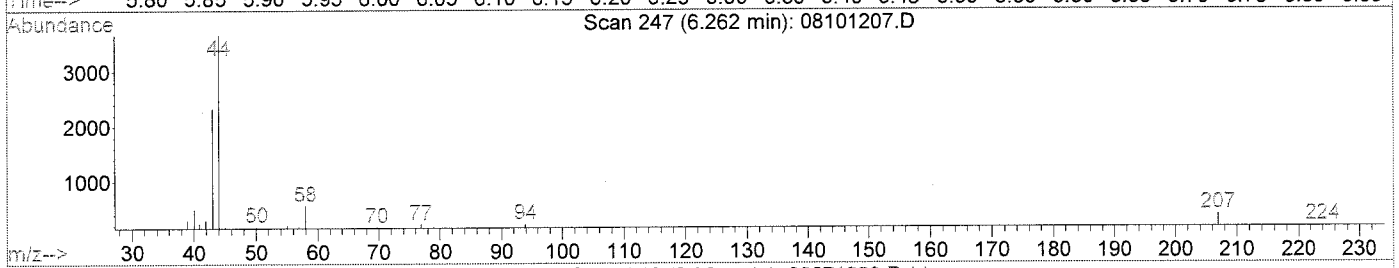


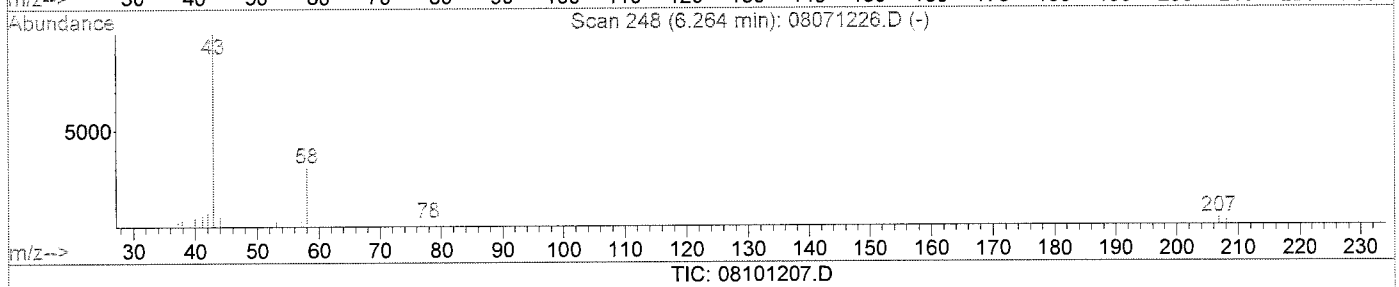
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:38 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.86ug/L

response 7175

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

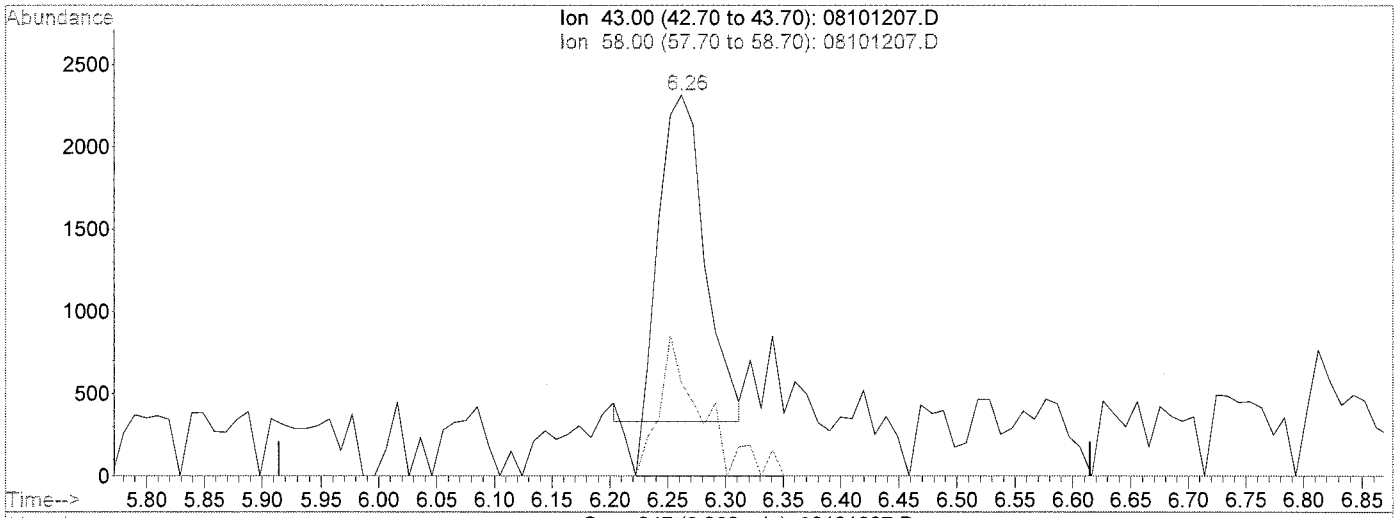
B 8/13/12

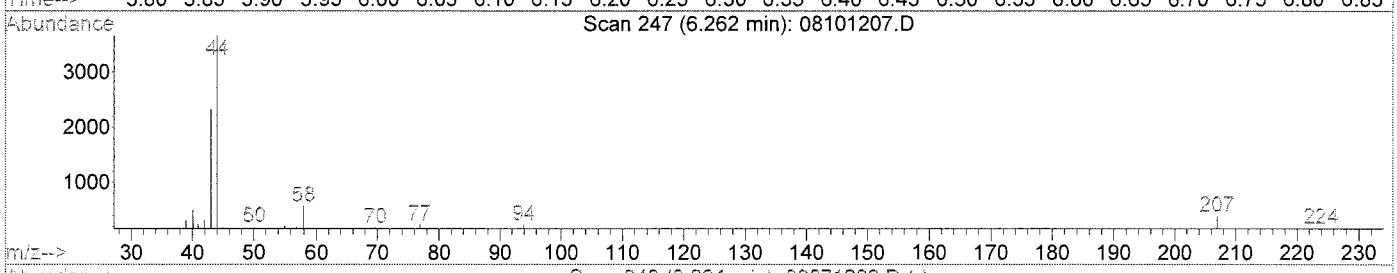
BL MM 8/13/12

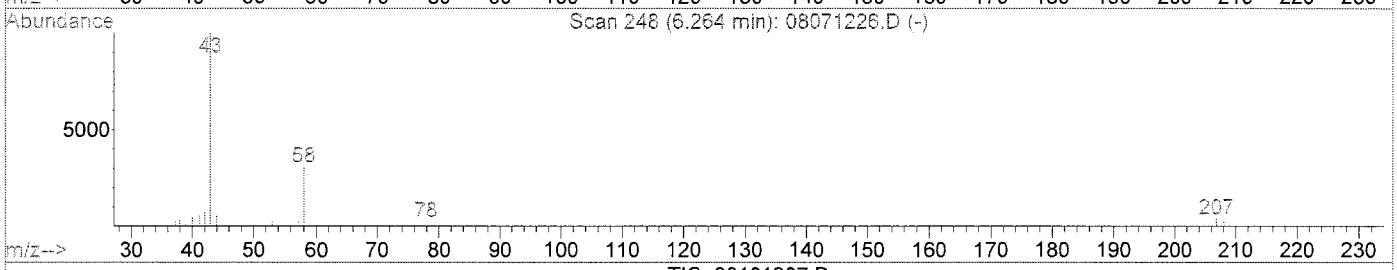
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 4.95ug/L m

response 5171

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	38.70#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	5.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.08%	
48) Toluene-d8	13.32	98	72498	5.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.00%	
62) 4-Bromofluorobenzene	16.95	95	19393	5.25 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.00%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.80 ug/L #	93
5) Dichlorodifluoromethane	4.12	85	50503	5.56 ug/L	96
6) Chloromethane	4.35	50	49357	5.27 ug/L	99
7) Vinyl Chloride	4.63	62	49265	6.67 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.88 ug/L	89
9) Bromomethane	5.19	94	30021	6.31 ug/L	93
10) Chloroethane	5.38	64	23447	5.74 ug/L	95
11) Trichlorofluoromethane	6.11	101	40948	5.24 ug/L	98
12) Acetone	6.26	43	5171m	4.95 ug/L	
13) Iodomethane	6.86	142	44247	5.29 ug/L	95
14) 1,1-Dichloroethene	6.80	96	26139	5.70 ug/L #	78
15) Methylene Chloride	7.00	84	23231	5.08 ug/L	91
16) Freon 113	7.08	101	29531	5.74 ug/L	98
17) Carbon disulfide	7.30	76	90258	5.36 ug/L	95
18) trans-1,2-Dichloroethene	7.87	96	30944	6.23 ug/L	89
19) MTBE	8.00	73	42861	5.31 ug/L	98
20) 1,1-Dichloroethane	8.18	63	50278	5.93 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.85 ug/L	97
22) n-Hexane	8.68	86	8584	7.29 ug/L	62
23) 2-Butanone (MEK)	8.73	72	1806	6.11 ug/L #	37
24) Diisopropyl Ether (DIPE)	8.74	45	78319	5.44 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	27851	6.31 ug/L	89
26) Bromochloromethane	9.11	128	10529	5.67 ug/L	94
27) Chloroform	9.17	83	43865	5.97 ug/L	94
28) 2,2-Dichloropropane	9.27	77	32662	5.28 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	5.22 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	5.02 ug/L	94
32) 1,2-Dichloroethane	10.01	62	19485	4.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.62 ug/L	91
34) (TAME) tert-Amyl methyl et	10.86	73	44807	5.54 ug/L	92
36) 1,1-Dichloropropene	10.37	75	40445	5.62 ug/L	98
37) Carbon Tetrachloride	10.61	117	30853	4.88 ug/L	95
38) Benzene	10.66	78	91136	5.46 ug/L #	90
39) Dibromomethane	11.39	93	10657	5.28 ug/L	89
40) 1,2-Dichloropropane	11.44	63	21430	5.25 ug/L #	91

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	27389	5.87 ug/L	97
42) Bromodichloromethane	11.55	83	25974	5.06 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	6853	5.95 ug/L #	92
44) cis-1,3-Dichloropropene	12.39	75	28675	5.40 ug/L #	85
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.03 ug/L	98
46) trans-1,3-Dichloropropene	12.96	75	21114	4.70 ug/L #	85
47) 1,1,2-Trichloroethane	13.17	97	12837	5.46 ug/L #	85
49) Toluene	13.42	92	54238	6.09 ug/L	96
51) 1,3-Dichloropropane	13.49	76	23699	5.47 ug/L	96
52) 2-Hexanone	13.69	43	8850	4.59 ug/L	98
53) Dibromochloromethane	13.86	129	16099	5.12 ug/L	100
54) 1,2-Dibromoethane	14.19	107	13554	5.50 ug/L	96
55) Tetrachloroethene	14.41	164	23934	5.75 ug/L	94
56) 1,1,1,2-Tetrachloroethane	15.21	131	18257	5.33 ug/L	95
57) Chlorobenzene	15.32	112	54536	6.13 ug/L	94
58) Ethylbenzene	15.59	91	93388	5.75 ug/L	96
59) m,p-Xylenes	15.85	106	35706	6.06 ug/L	91
60) Styrene	16.30	104	44417	5.76 ug/L #	91
61) o-Xylene	16.39	106	32546	6.07 ug/L	93
64) Bromoform	16.01	173	9250	4.98 ug/L	87
65) 1,1,2,2-Tetrachloroethane	16.39	83	14360	5.22 ug/L #	98
66) 1,2,3-Trichloropropane	16.59	110	3714	5.14 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.62	53	3143	5.98 ug/L #	93
68) Isopropylbenzene	16.90	105	84596	5.72 ug/L	97
69) Bromobenzene	17.25	156	19667	5.16 ug/L	98
70) n-Propylbenzene	17.50	91	106364	5.69 ug/L	97
71) 2-Chlorotoluene	17.64	91	57156	5.26 ug/L	94
72) 4-Chlorotoluene	17.75	91	57414	5.56 ug/L	96
73) 1,3,5-Trimethylbenzene	17.91	105	65369	5.68 ug/L	93
74) tert-Butylbenzene	18.30	119	58429	5.64 ug/L	97
75) 1,2,4-Trimethylbenzene	18.46	105	63046	5.83 ug/L	96
76) sec-Butylbenzene	18.61	105	99506	6.34 ug/L	98
77) 1,3-Dichlorobenzene	18.71	146	37917	5.87 ug/L	95
78) 1,4-Dichlorobenzene	18.81	146	35468	5.82 ug/L	99
79) p-Isopropyltoluene	18.86	119	72640	6.20 ug/L	94
80) 1,2-Dichlorobenzene	19.28	146	30287	5.78 ug/L	99
81) n-Butylbenzene	19.39	91	70667	6.52 ug/L	97
82) 1,2-Dibromo-3-chloropropan	19.87	75	1150	2.73 ug/L #	34
83) 1,2,4-Trichlorobenzene	21.51	180	17519	6.31 ug/L	98
84) Napthalene	21.82	128	26687	6.26 ug/L	96
85) Hexachlorobutadiene	21.88	225	14706	4.54 ug/L	88
86) 1,2,3-Trichlorobenzene	22.08	180	14724	6.68 ug/L	99

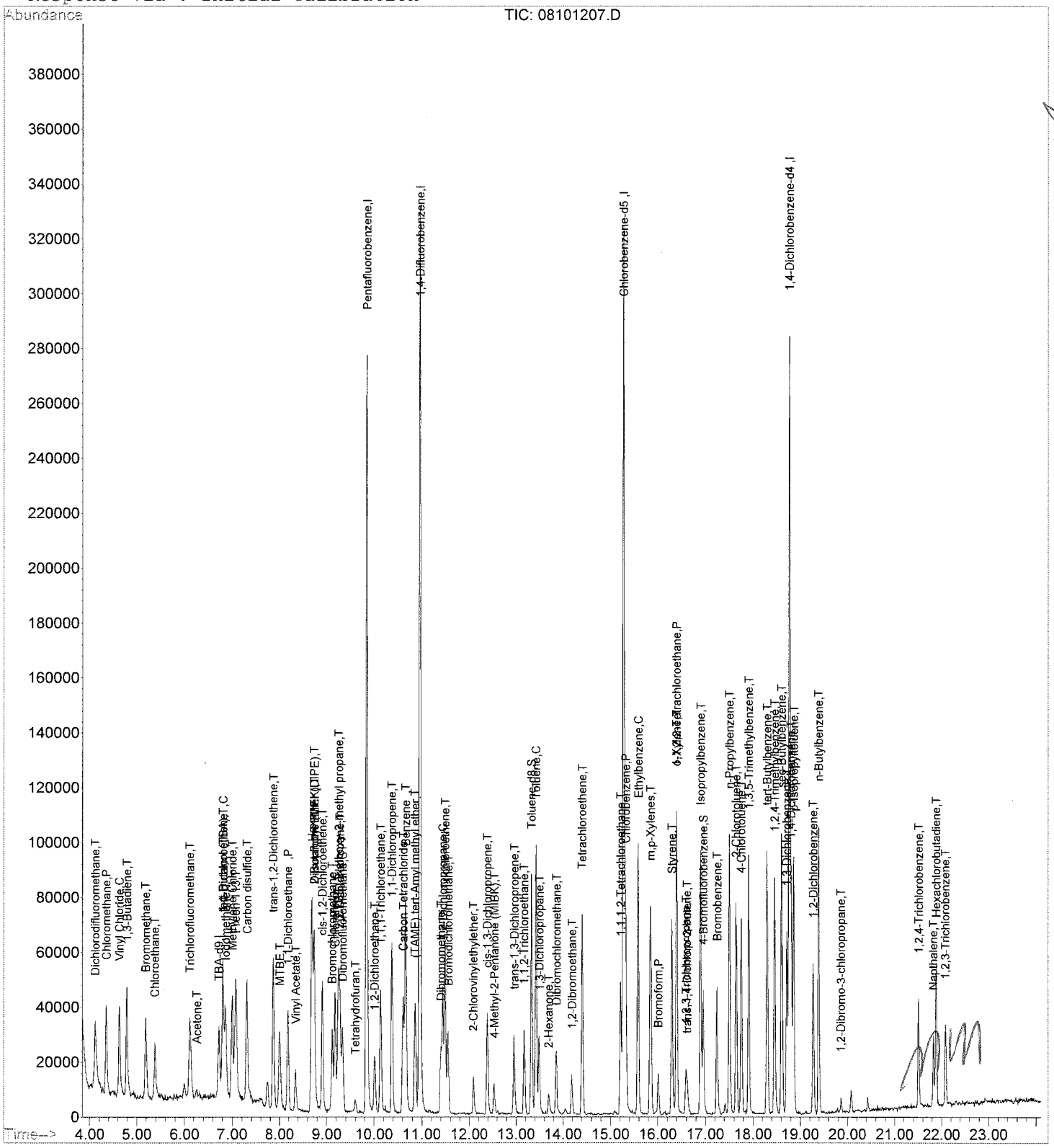
MM

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

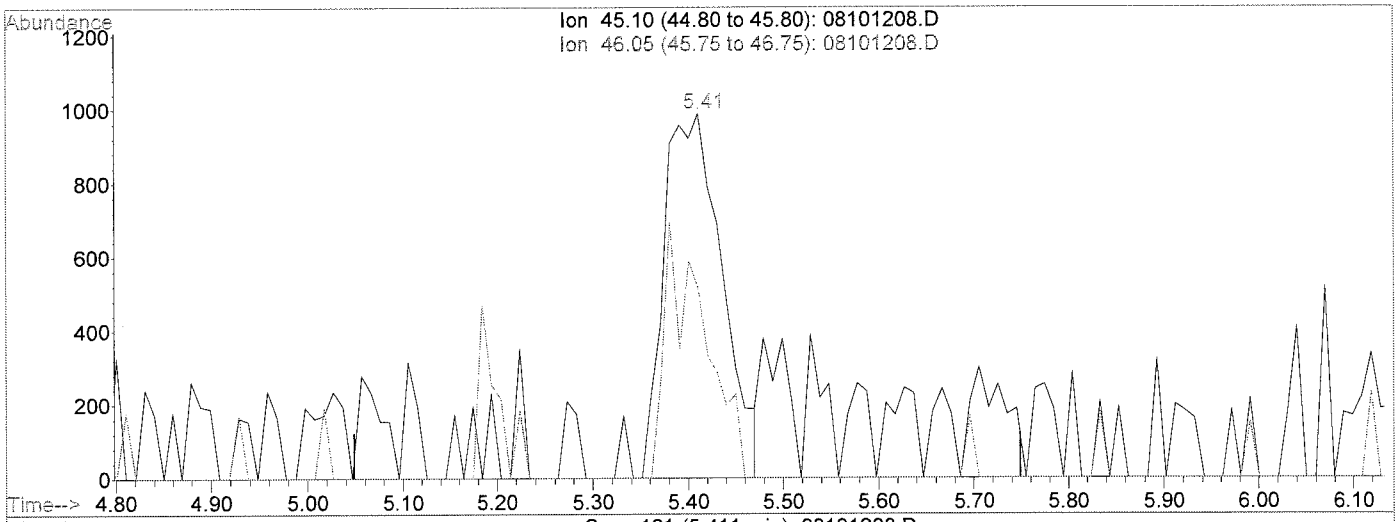


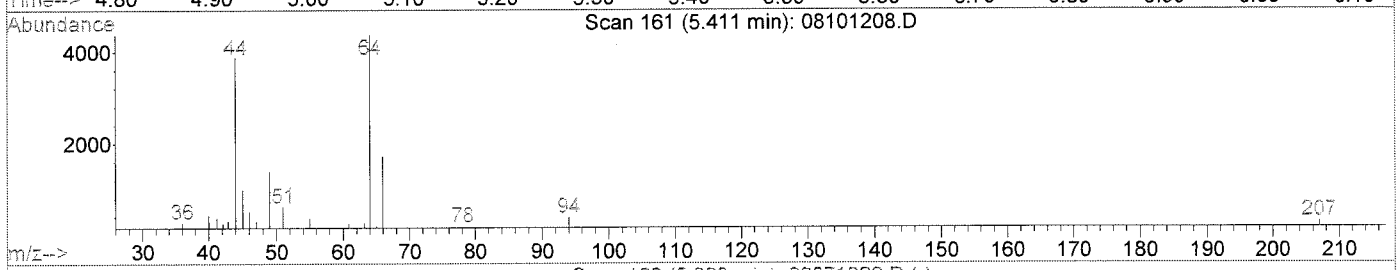
08101207.D 080712.M Fri Aug 10 12:39:59 2012

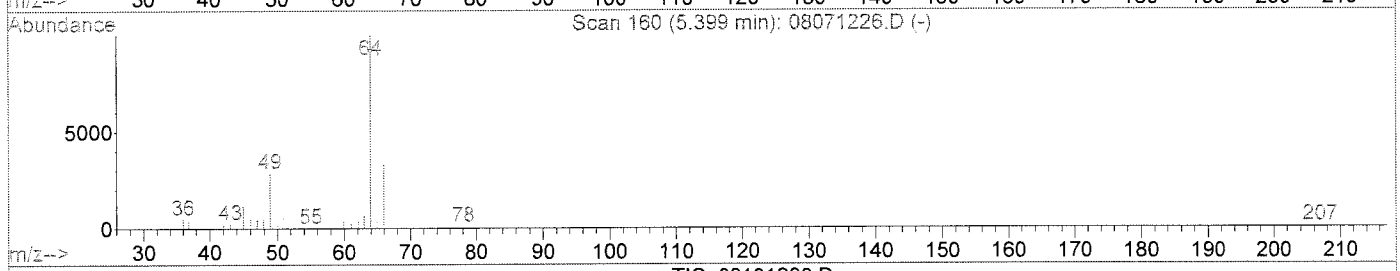
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 112.69ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

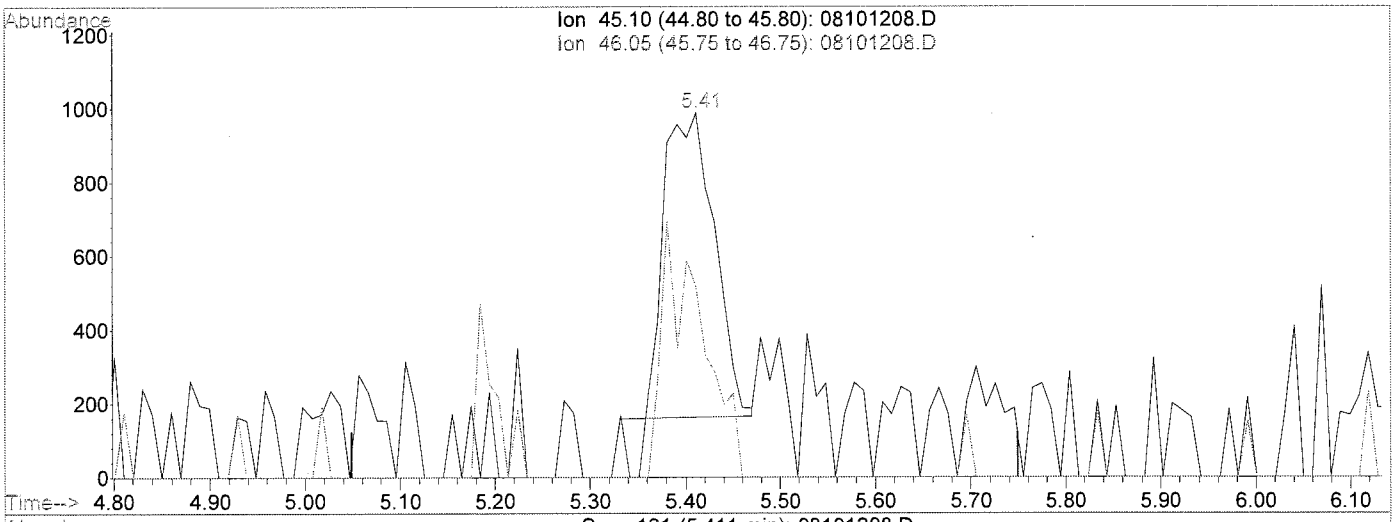
BL

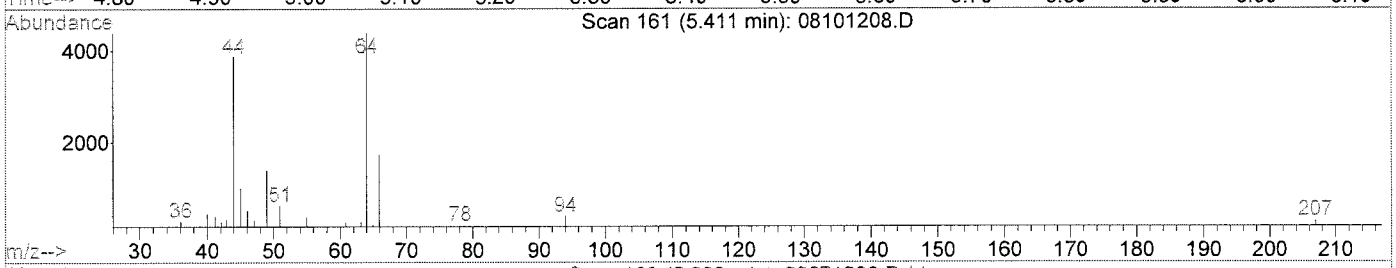
MM 8/13/12

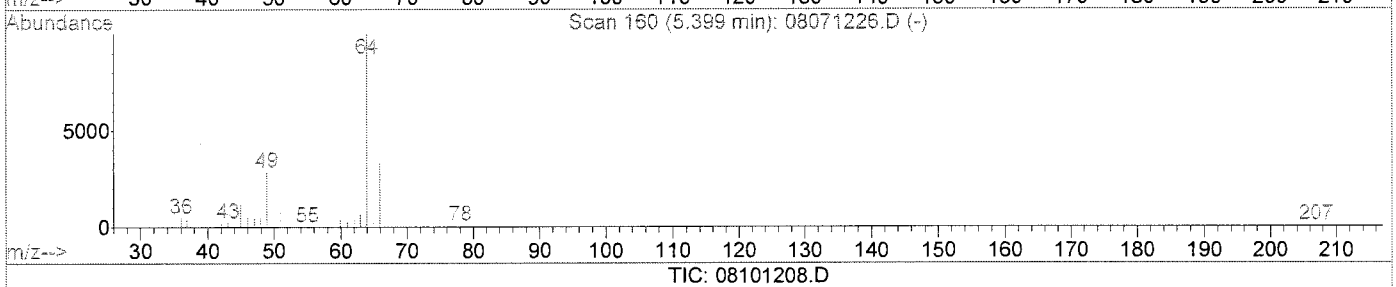
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 76.46ug/L m

response 2824

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	71.99#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

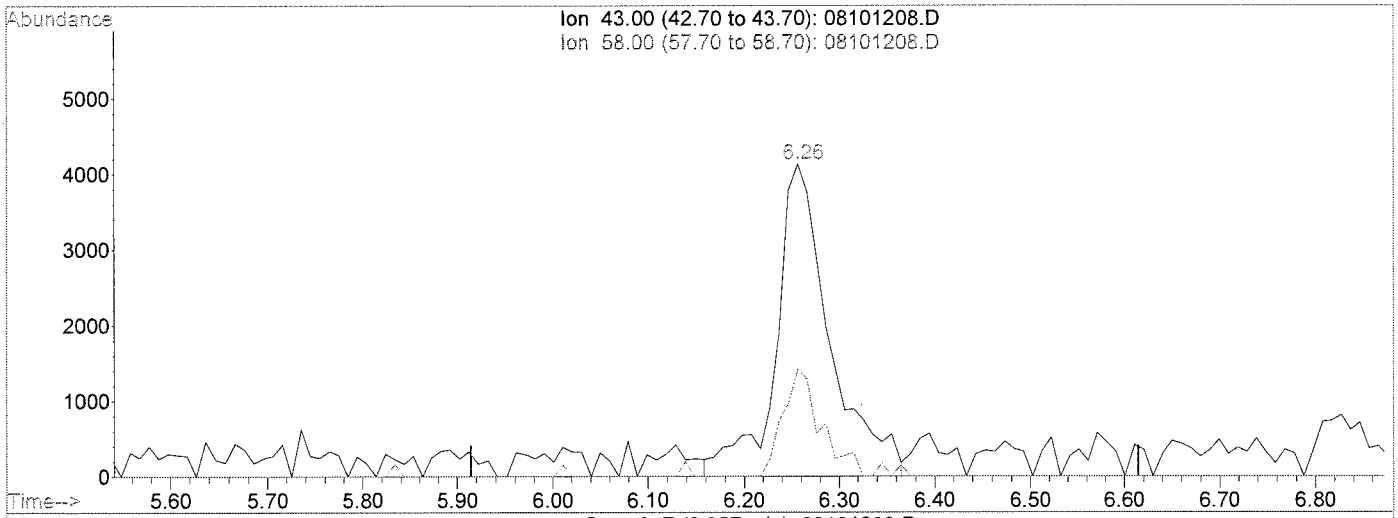
A

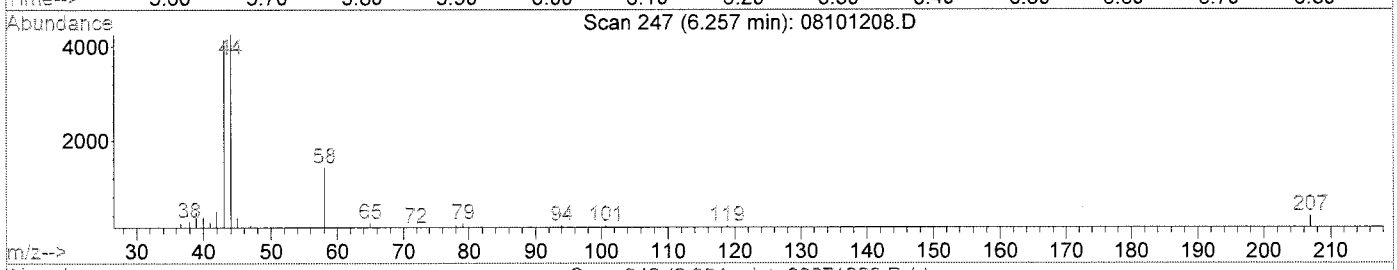
MM 8/13/12

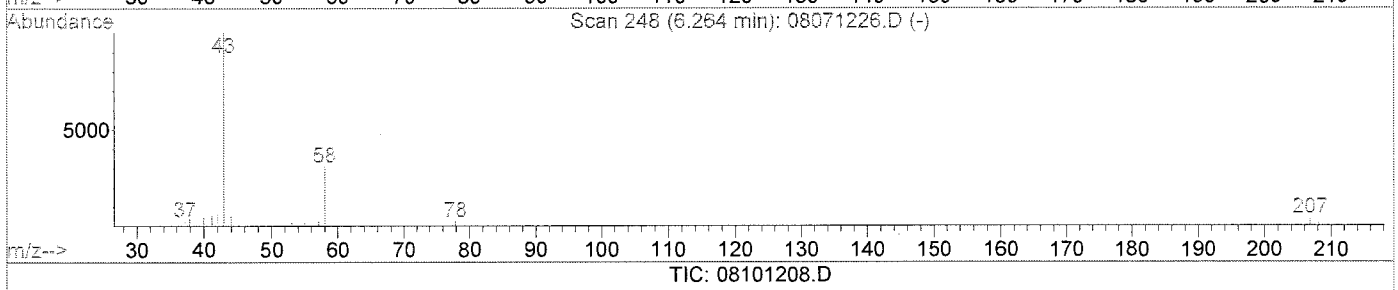
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 15.14ug/L

response 16281

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	24.34
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

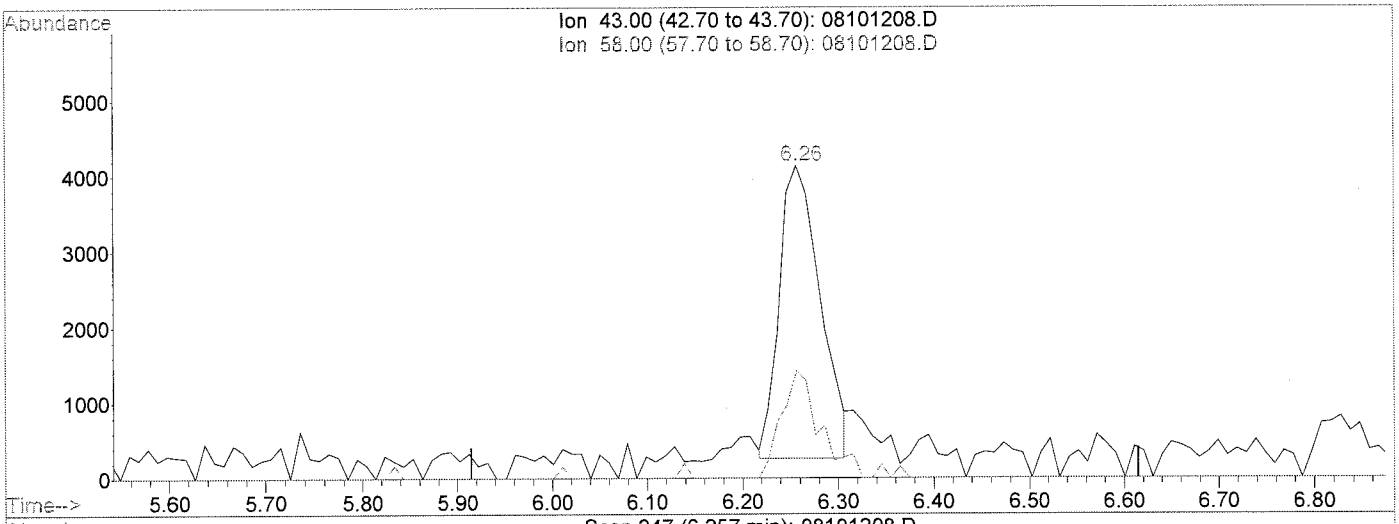
BL

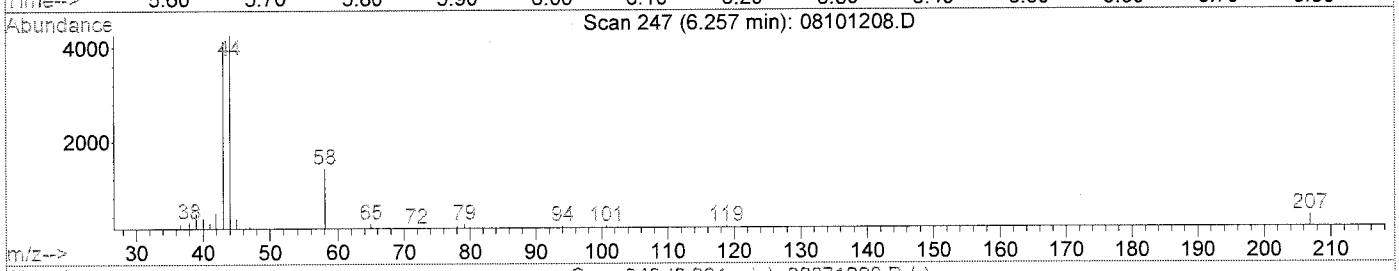
MM 8/13/12

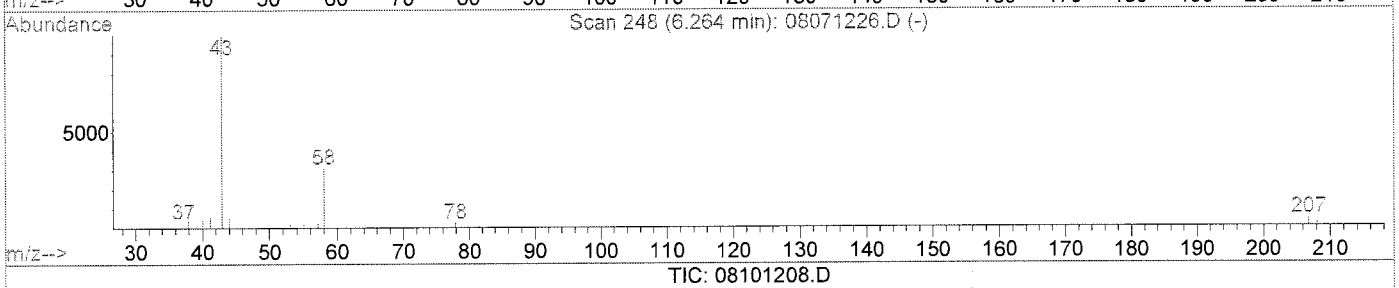
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 10.63ug/L m

response 11426

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	34.68#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	12.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	48.00%	
48) Toluene-d8	13.33	98	151060	11.69 ug/L	0.00
Spiked Amount 25.000			Recovery =	46.76%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	47.12%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	2824m	76.46 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	48.06 ug/L #	94
5) Dichlorodifluoromethane	4.11	85	99359	10.63 ug/L	98
6) Chloromethane	4.35	50	99085	10.28 ug/L	98
7) Vinyl Chloride	4.63	62	94725	12.47 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	11.54 ug/L	94
9) Bromomethane	5.18	94	57814	11.81 ug/L	99
10) Chloroethane	5.38	64	44676	10.64 ug/L	95
11) Trichlorofluoromethane	6.11	101	81825	10.18 ug/L	97
12) Acetone	6.26	43	11426m	10.63 ug/L	
13) Iodomethane	6.87	142	92968	10.81 ug/L	94
14) 1,1-Dichloroethene	6.81	96	53536	11.34 ug/L #	76
15) Methylene Chloride	6.99	84	48433	10.29 ug/L	87
16) Freon 113	7.07	101	57249	10.81 ug/L	98
17) Carbon disulfide	7.30	76	183724	10.61 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	63718	12.47 ug/L	90
19) MTBE	8.00	73	90114	10.86 ug/L	97
20) 1,1-Dichloroethane	8.17	63	99374	11.40 ug/L	98
21) Vinyl Acetate	8.34	43	68389	10.07 ug/L	98
22) n-Hexane	8.69	86	15274	12.60 ug/L	89
23) 2-Butanone (MEK)	8.74	72	3909	12.86 ug/L #	54
24) Diisopropyl Ether (DIPE)	8.74	45	169576	11.46 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	59154	13.03 ug/L	87
26) Bromochloromethane	9.12	128	23711	12.41 ug/L	86
27) Chloroform	9.18	83	88095	11.66 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.41 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	11.10 ug/L	95
31) Tetrahydrofuran	9.59	72	3578	11.79 ug/L	86
32) 1,2-Dichloroethane	10.01	62	41085	9.31 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	75517	11.56 ug/L	94
34) (TAME) tert-Amyl methyl et	10.85	73	91702	11.02 ug/L	93
36) 1,1-Dichloropropene	10.38	75	86510	11.72 ug/L	97
37) Carbon Tetrachloride	10.61	117	64587	9.98 ug/L	96
38) Benzene	10.66	78	192601	11.26 ug/L	93
39) Dibromomethane	11.39	93	22947	11.10 ug/L	90
40) 1,2-Dichloropropane	11.43	63	45818	10.96 ug/L #	91

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	11.21 ug/L		94
42)	Bromodichloromethane	11.55	83	54093	10.29 ug/L		97
43)	2-Chlorovinylethylether	12.09	63	17562	14.63 ug/L	#	93
44)	cis-1,3-Dichloropropene	12.38	75	62172	11.41 ug/L	#	85
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	8.91 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	46129	9.67 ug/L	#	87
47)	1,1,2-Trichloroethane	13.17	97	27529	11.42 ug/L	#	89
49)	Toluene	13.42	92	109934	12.04 ug/L		98
51)	1,3-Dichloropropane	13.49	76	47813	10.89 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.56 ug/L	#	93
53)	Dibromochloromethane	13.85	129	35116	11.02 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	11.85 ug/L		97
55)	Tetrachloroethene	14.41	164	47547	11.26 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	11.04 ug/L		97
57)	Chlorobenzene	15.32	112	113987	12.63 ug/L		93
58)	Ethylbenzene	15.58	91	196709	11.95 ug/L		96
59)	m,p-Xylenes	15.85	106	77315	12.93 ug/L		90
60)	Styrene	16.30	104	101282	12.96 ug/L	#	92
61)	o-Xylene	16.40	106	72024	13.24 ug/L		91
64)	Bromoform	16.00	173	18119	9.53 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	12.08 ug/L	#	94
66)	1,2,3-Trichloropropane	16.59	110	7207	10.03 ug/L		95
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	10.45 ug/L	#	93
68)	Isopropylbenzene	16.90	105	174169	11.85 ug/L		100
69)	Bromobenzene	17.24	156	41493	10.93 ug/L		94
70)	n-Propylbenzene	17.51	91	220385	11.84 ug/L		99
71)	2-Chlorotoluene	17.65	91	118995	11.01 ug/L		99
72)	4-Chlorotoluene	17.75	91	114947	11.19 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	140555	12.28 ug/L		96
74)	tert-Butylbenzene	18.31	119	125080	12.13 ug/L		94
75)	1,2,4-Trimethylbenzene	18.46	105	130209	12.10 ug/L		93
76)	sec-Butylbenzene	18.61	105	203460	13.03 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	12.24 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	12.40 ug/L		98
79)	p-Isopropyltoluene	18.86	119	152942	13.13 ug/L		96
80)	1,2-Dichlorobenzene	19.28	146	63302	12.15 ug/L		97
81)	n-Butylbenzene	19.39	91	148822	13.81 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	9.29 ug/L	#	57
83)	1,2,4-Trichlorobenzene	21.50	180	37943	13.74 ug/L		97
84)	Napthalene	21.83	128	59549	14.05 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	8.23 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	14.08 ug/L		97

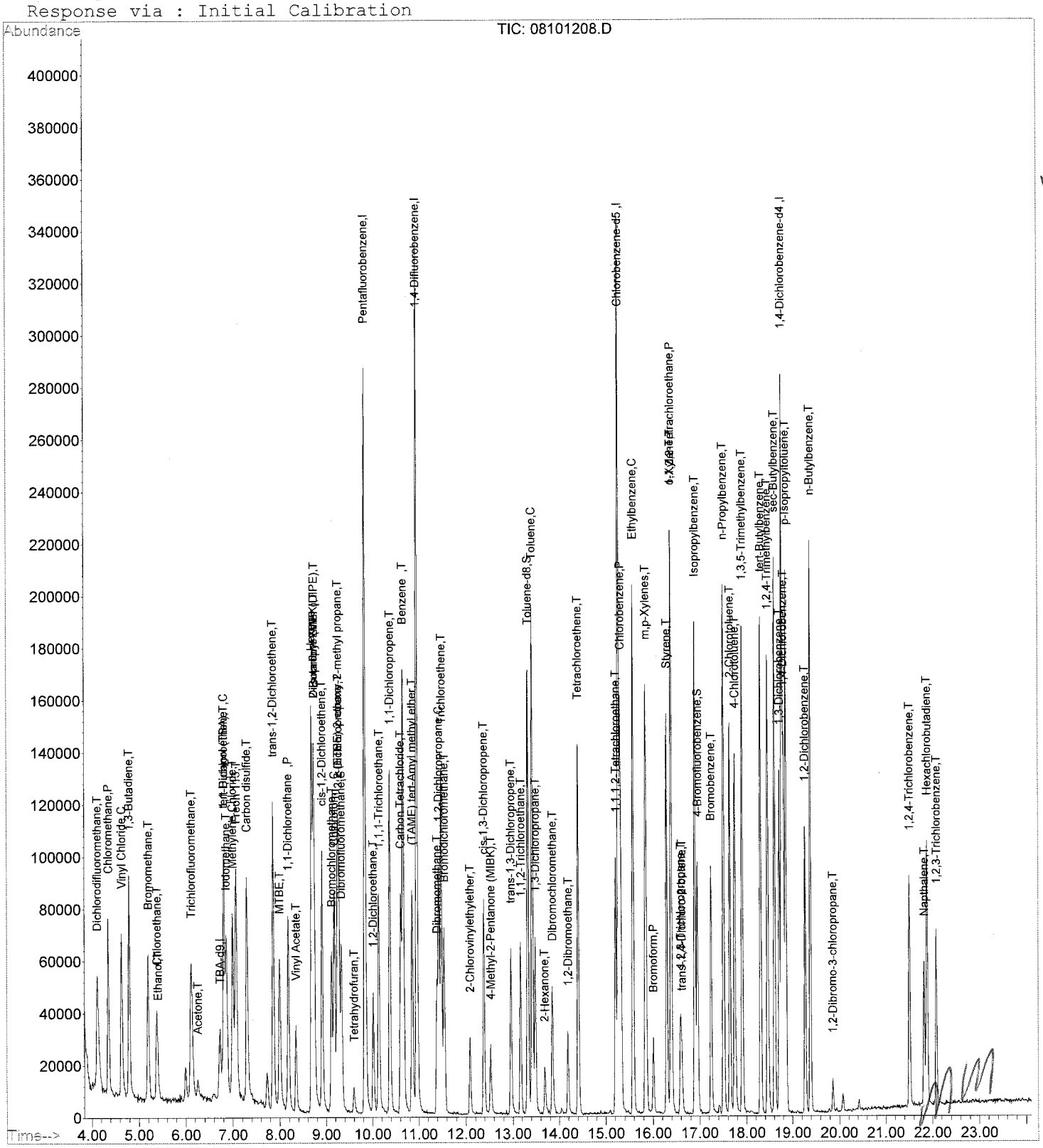
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

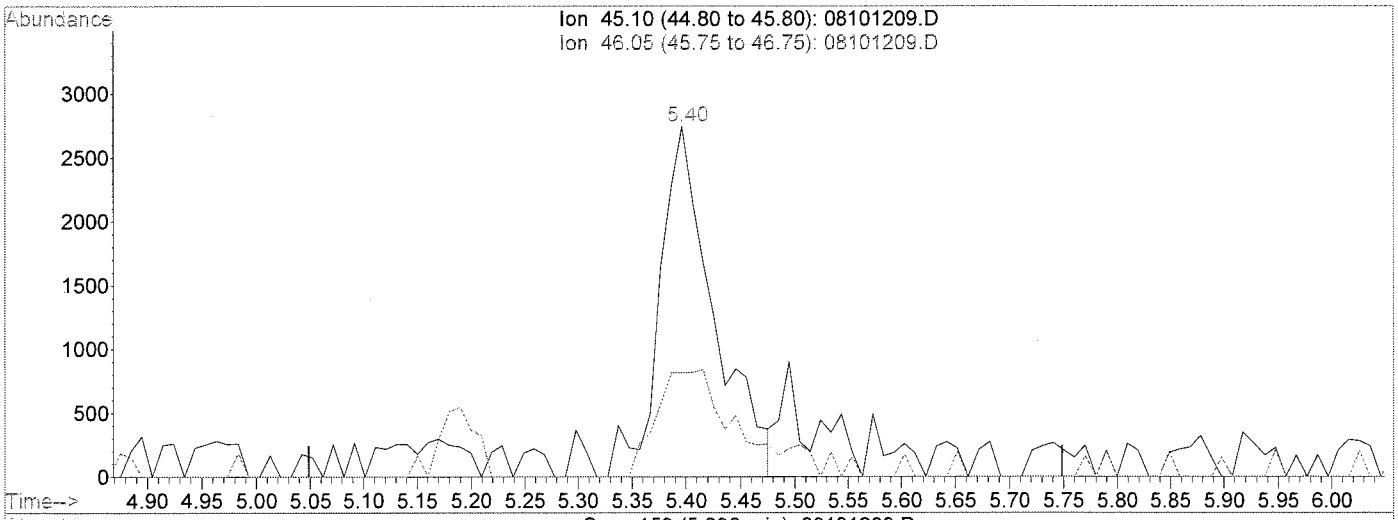
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

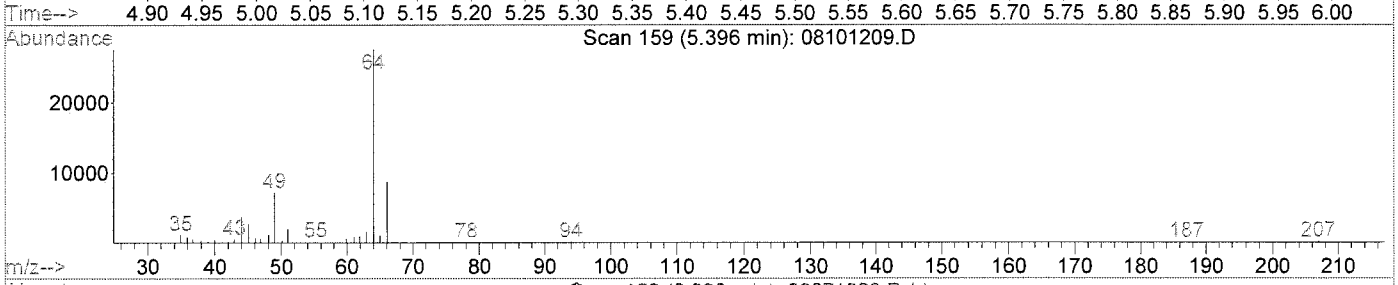


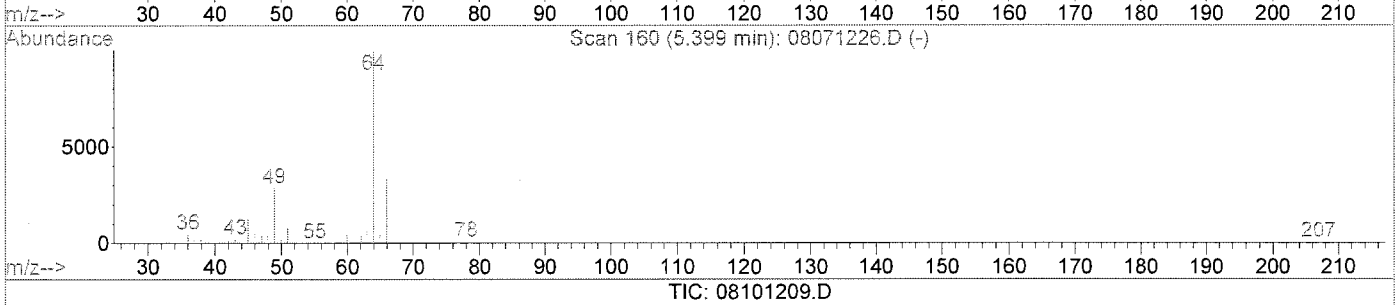
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 267.40ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

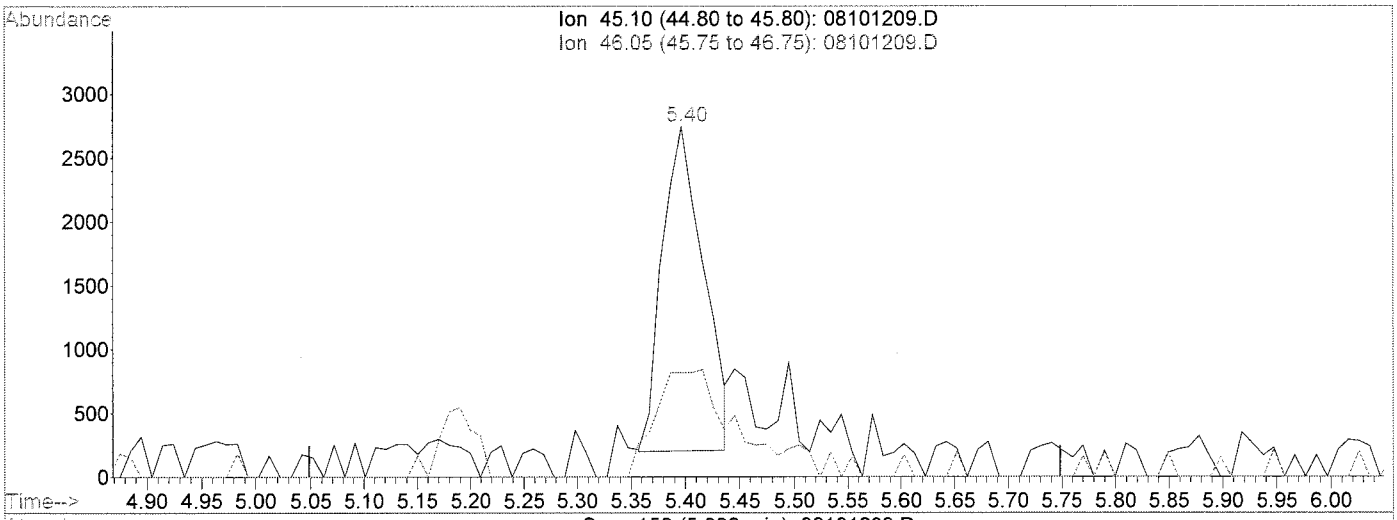
BL

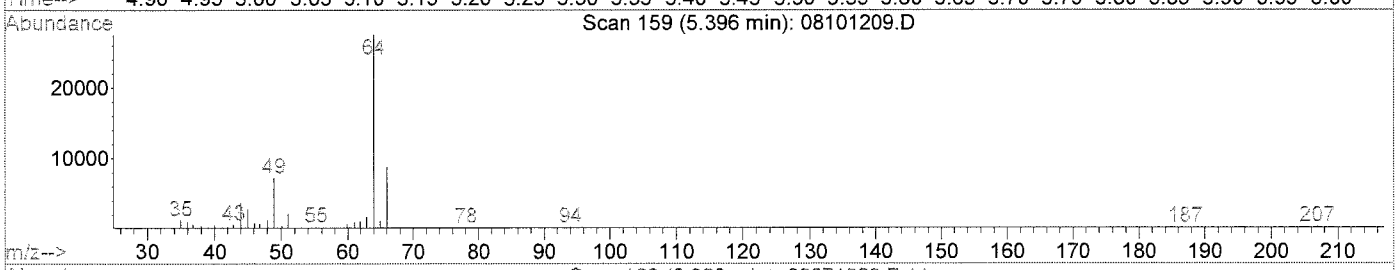
MM 8/13/12

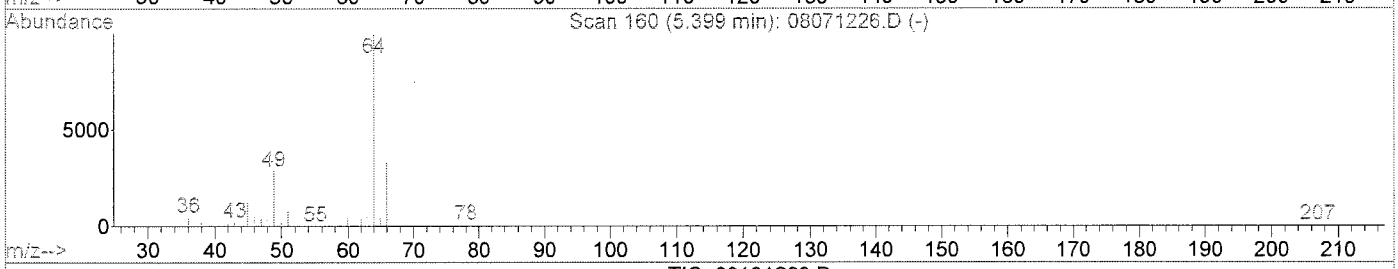
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(2) Ethanol (T)

5.40min 187.38ug/L m

response 6700

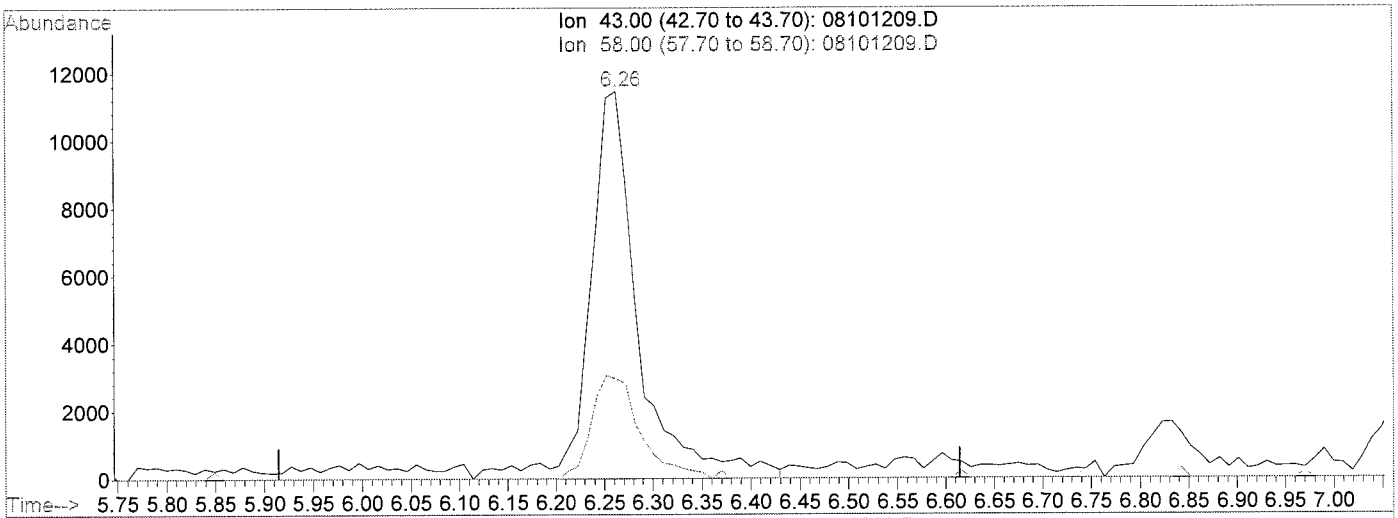
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	59.94#
0.00	0.00	0.00
0.00	0.00	0.00

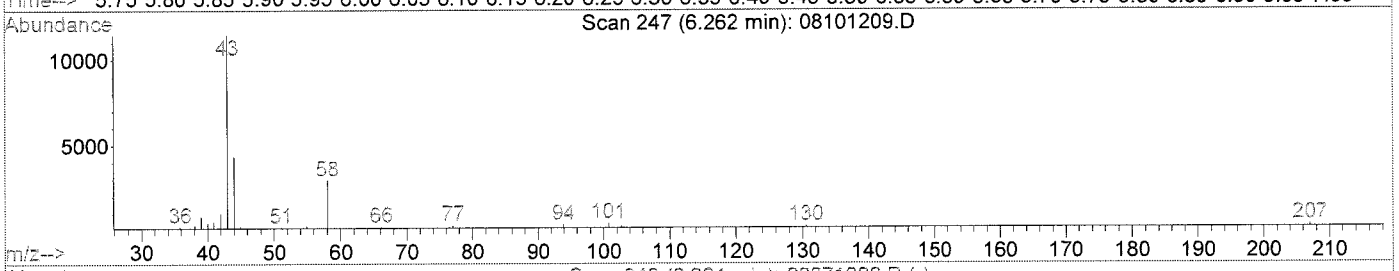
MM 8/13/12

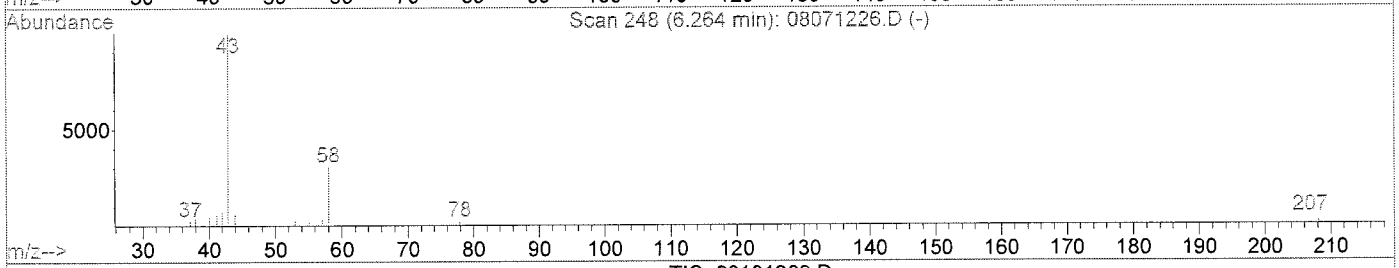
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 35.00ug/L

response 39847

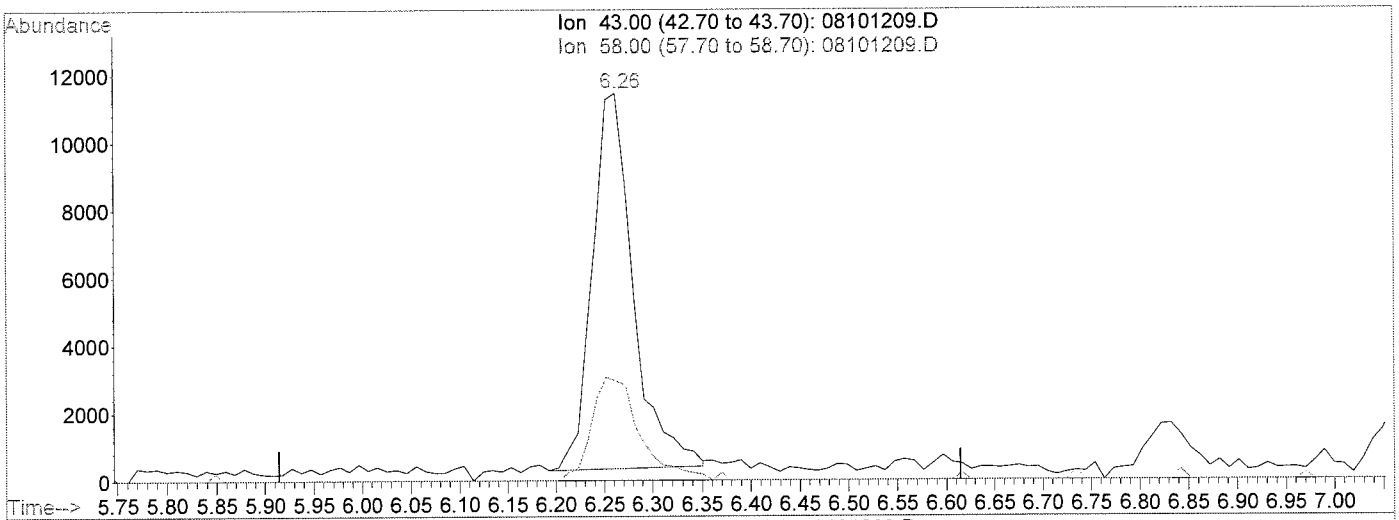
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

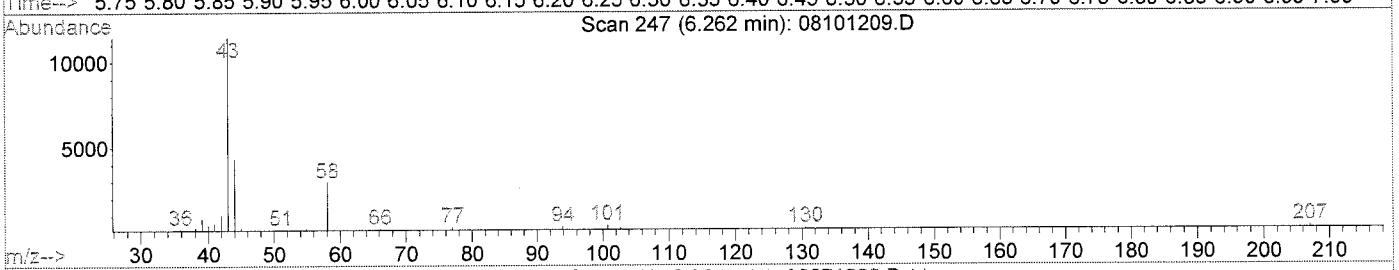
BL MM 8/13/12

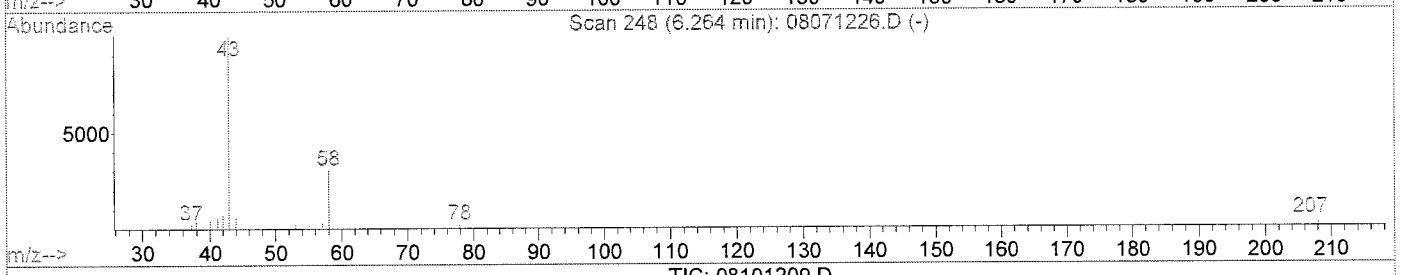
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(12) Acetone (T)

6.26min 28.81ug/L m

response 32794

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.37#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	28.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.68%	
48) Toluene-d8	13.32	98	387904	27.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.48%	
62) 4-Bromofluorobenzene	16.95	95	104965	26.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.44%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6700m	187.38 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	129.76 ug/L	99
5) Dichlorodifluoromethane	4.11	85	259999	26.28 ug/L	98
6) Chloromethane	4.35	50	249108	24.41 ug/L	99
7) Vinyl Chloride	4.63	62	234281	29.14 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	27.33 ug/L	91
9) Bromomethane	5.19	94	136870	26.41 ug/L	97
10) Chloroethane	5.38	64	115028	25.87 ug/L	97
11) Trichlorofluoromethane	6.11	101	203736	23.94 ug/L	99
12) Acetone	6.26	43	32794m	28.81 ug/L	
13) Iodomethane	6.86	142	233911	25.68 ug/L	93
14) 1,1-Dichloroethene	6.81	96	132114	26.43 ug/L #	78
15) Methylene Chloride	7.00	84	120484	24.17 ug/L	87
16) Freon 113	7.07	101	146166	26.07 ug/L	97
17) Carbon disulfide	7.29	76	465019	25.36 ug/L #	93
18) trans-1,2-Dichloroethene	7.87	96	156993	29.02 ug/L	90
19) MTBE	8.00	73	227954	25.95 ug/L	99
20) 1,1-Dichloroethane	8.18	63	249879	27.07 ug/L	98
21) Vinyl Acetate	8.34	43	179194	24.91 ug/L #	95
22) n-Hexane	8.69	86	38470	29.98 ug/L	88
23) 2-Butanone (MEK)	8.73	72	10850	33.72 ug/L #	7
24) Diisopropyl Ether (DIPE)	8.74	45	414456	26.45 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	143999	29.97 ug/L	89
26) Bromochloromethane	9.11	128	58383	28.86 ug/L	90
27) Chloroform	9.17	83	223471	27.92 ug/L #	95
28) 2,2-Dichloropropane	9.27	77	163680	24.31 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	25.69 ug/L	96
31) Tetrahydrofuran	9.60	72	8067	25.10 ug/L	90
32) 1,2-Dichloroethane	10.01	62	105341	22.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	190354	27.51 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	241539	27.42 ug/L	92
36) 1,1-Dichloropropene	10.37	75	205389	25.84 ug/L	95
37) Carbon Tetrachloride	10.61	117	164083	23.54 ug/L	99
38) Benzene	10.66	78	497157	26.99 ug/L #	91
39) Dibromomethane	11.39	93	58226	26.16 ug/L	95
40) 1,2-Dichloropropane	11.44	63	118189	26.25 ug/L #	88

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	140936	27.36 ug/L		97
42)	Bromodichloromethane	11.55	83	140799	24.87 ug/L		96
43)	2-Chlorovinylethylether	12.08	63	44348	33.04 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	164809	28.10 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	66778	20.37 ug/L		96
46)	trans-1,3-Dichloropropene	12.95	75	123650	23.61 ug/L	#	84
47)	1,1,2-Trichloroethane	13.17	97	72275	27.84 ug/L	#	88
49)	Toluene	13.42	92	282282	28.72 ug/L		99
51)	1,3-Dichloropropane	13.49	76	124333	26.67 ug/L		100
52)	2-Hexanone	13.69	43	53049	25.56 ug/L	#	92
53)	Dibromochloromethane	13.86	129	92023	27.19 ug/L		100
54)	1,2-Dibromoethane	14.18	107	76183	28.73 ug/L		99
55)	Tetrachloroethene	14.41	164	125279	27.94 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	102745	27.86 ug/L		99
57)	Chlorobenzene	15.32	112	287853	30.02 ug/L		93
58)	Ethylbenzene	15.59	91	512045	29.28 ug/L		96
59)	m,p-Xylenes	15.84	106	195904	30.85 ug/L		92
60)	Styrene	16.29	104	271388	32.70 ug/L	#	91
61)	o-Xylene	16.39	106	178278	30.86 ug/L		94
64)	Bromoform	16.01	173	52543	22.91 ug/L		95
65)	1,1,2,2-Tetrachloroethane	16.39	83	80822	25.58 ug/L		99
66)	1,2,3-Trichloropropane	16.59	110	19363	23.33 ug/L		97
67)	trans-1,4-Dichloro-2-buten	16.62	53	18848	22.67 ug/L	#	87
68)	Isopropylbenzene	16.89	105	450007	26.49 ug/L		99
69)	Bromobenzene	17.25	156	113170	25.81 ug/L		91
70)	n-Propylbenzene	17.50	91	579703	26.97 ug/L		98
71)	2-Chlorotoluene	17.64	91	304359	24.38 ug/L		95
72)	4-Chlorotoluene	17.75	91	297241	25.04 ug/L		93
73)	1,3,5-Trimethylbenzene	17.91	105	362766	27.43 ug/L		95
74)	tert-Butylbenzene	18.30	119	324105	27.20 ug/L		93
75)	1,2,4-Trimethylbenzene	18.46	105	337490	27.14 ug/L		95
76)	sec-Butylbenzene	18.61	105	528569	29.31 ug/L		98
77)	1,3-Dichlorobenzene	18.71	146	201590	27.15 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	196096	27.98 ug/L		97
79)	p-Isopropyltoluene	18.85	119	400272	29.75 ug/L		95
80)	1,2-Dichlorobenzene	19.28	146	166930	27.73 ug/L		99
81)	n-Butylbenzene	19.39	91	388212	31.19 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	9202	25.02 ug/L		85
83)	1,2,4-Trichlorobenzene	21.51	180	95814	30.03 ug/L		97
84)	Napthalene	21.82	128	152397	31.11 ug/L		100
85)	Hexachlorobutadiene	21.88	225	71752	20.04 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	77645	30.90 ug/L		98

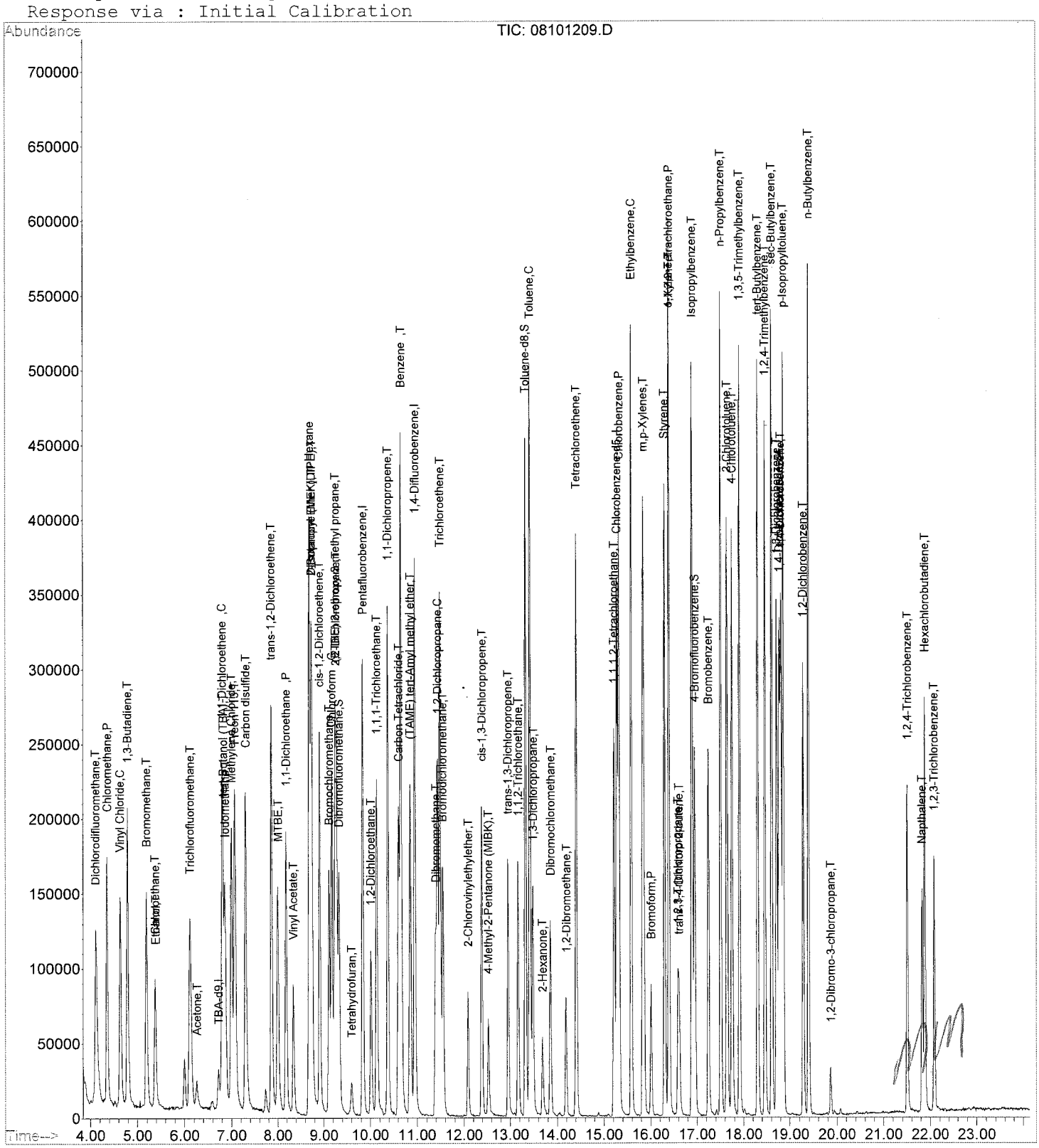
MM

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

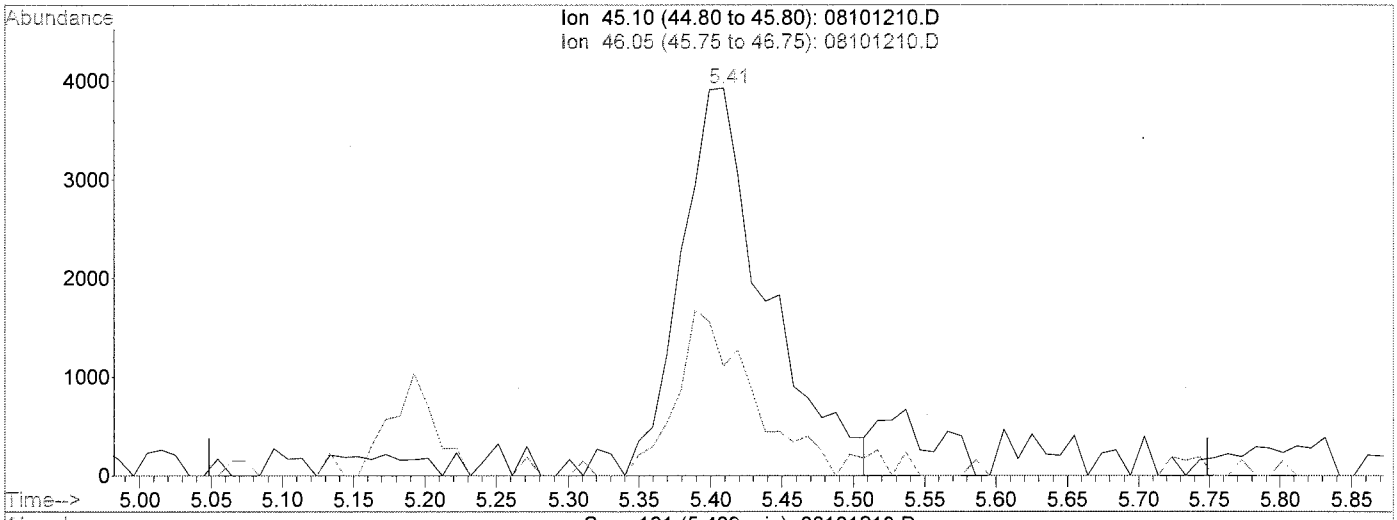
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

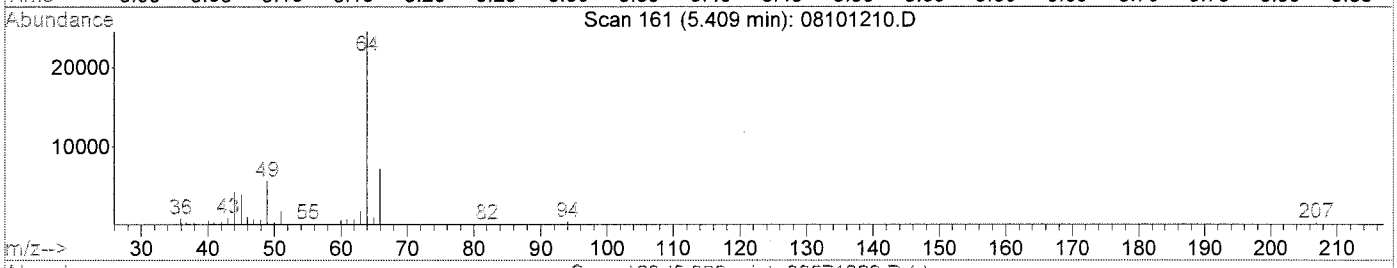


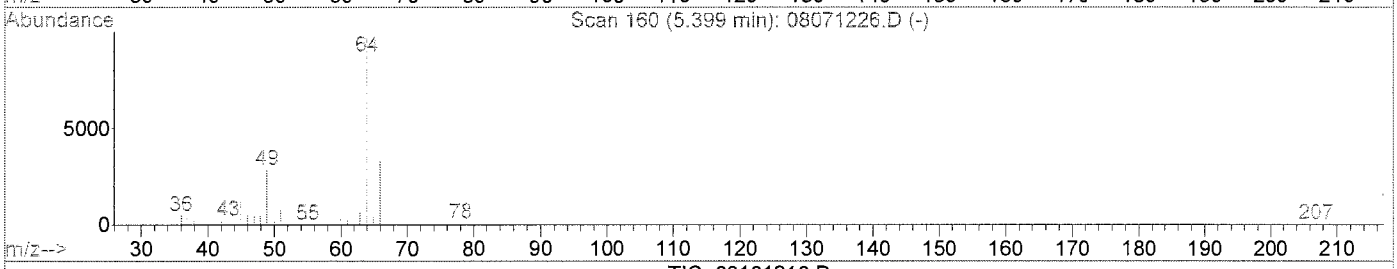
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 452.57ug/L

response 16581

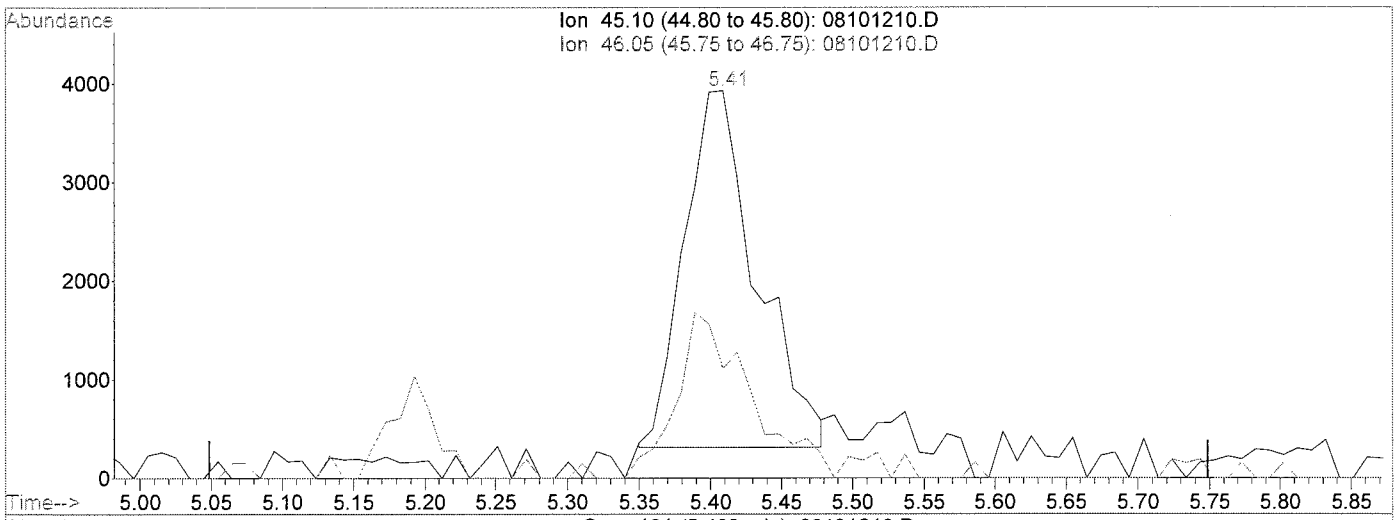
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	36.61
0.00	0.00	0.00
0.00	0.00	0.00

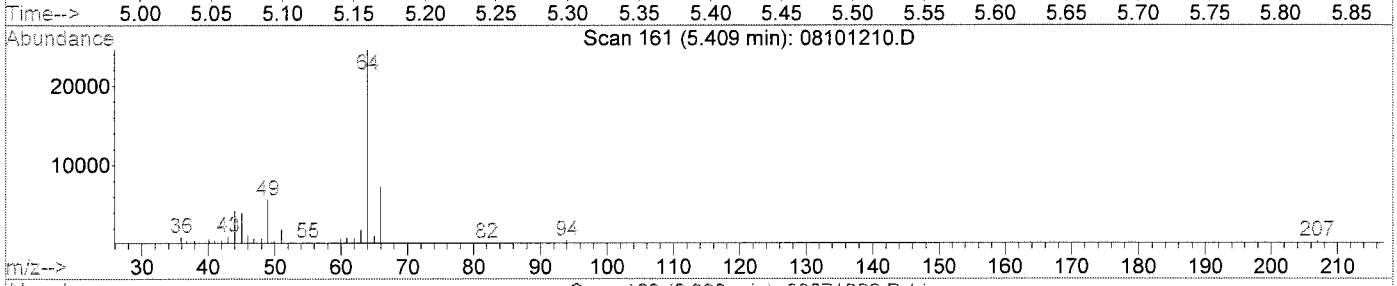
8/13/12
BL
MM 8/13/12

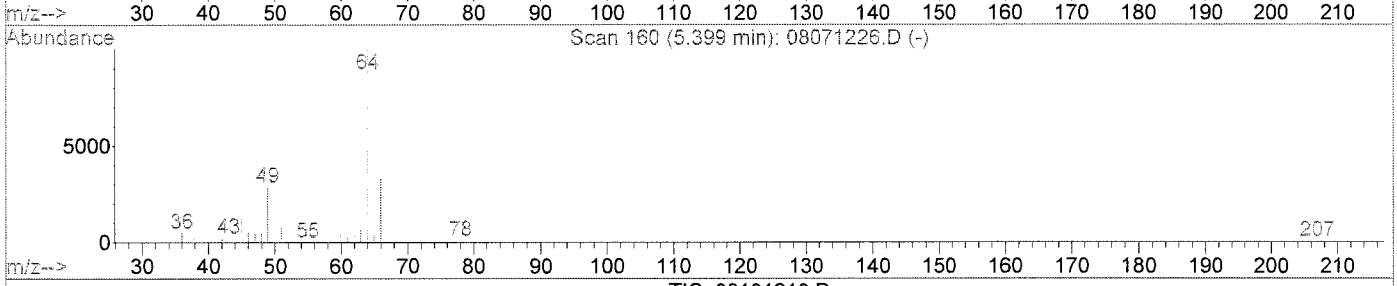
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 348.44ug/L m

response 12766

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

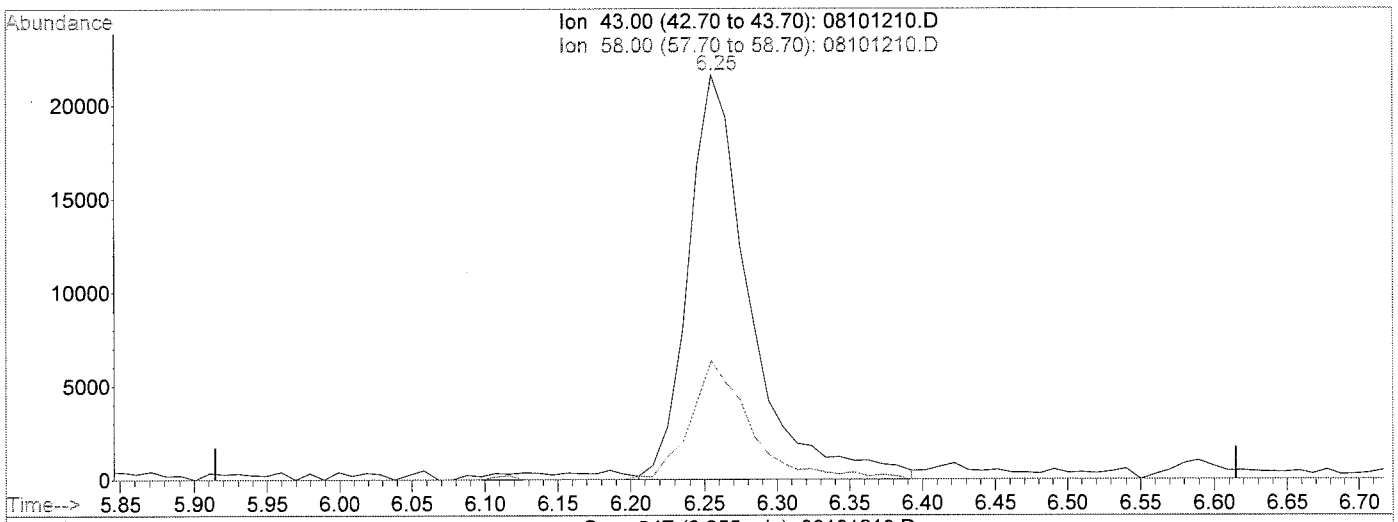
8/13/12

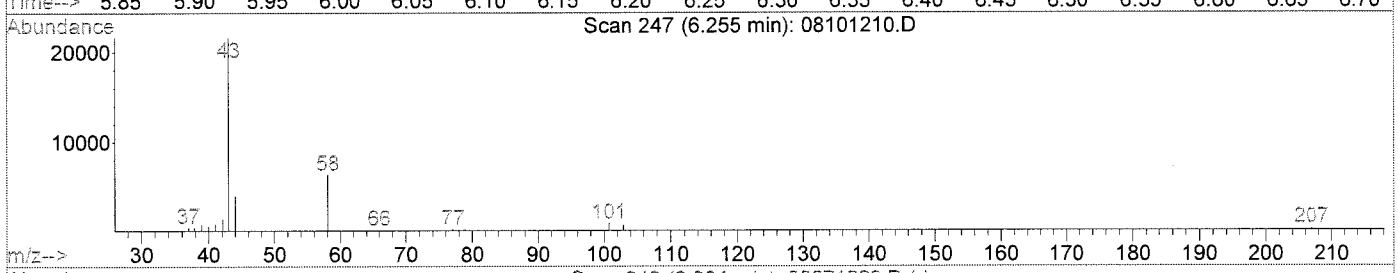
MNM 8/13/12

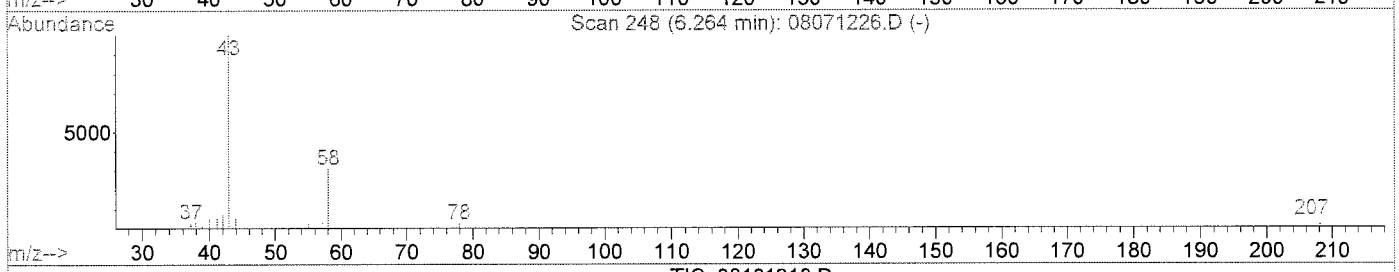
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 58.37ug/L

response 63143

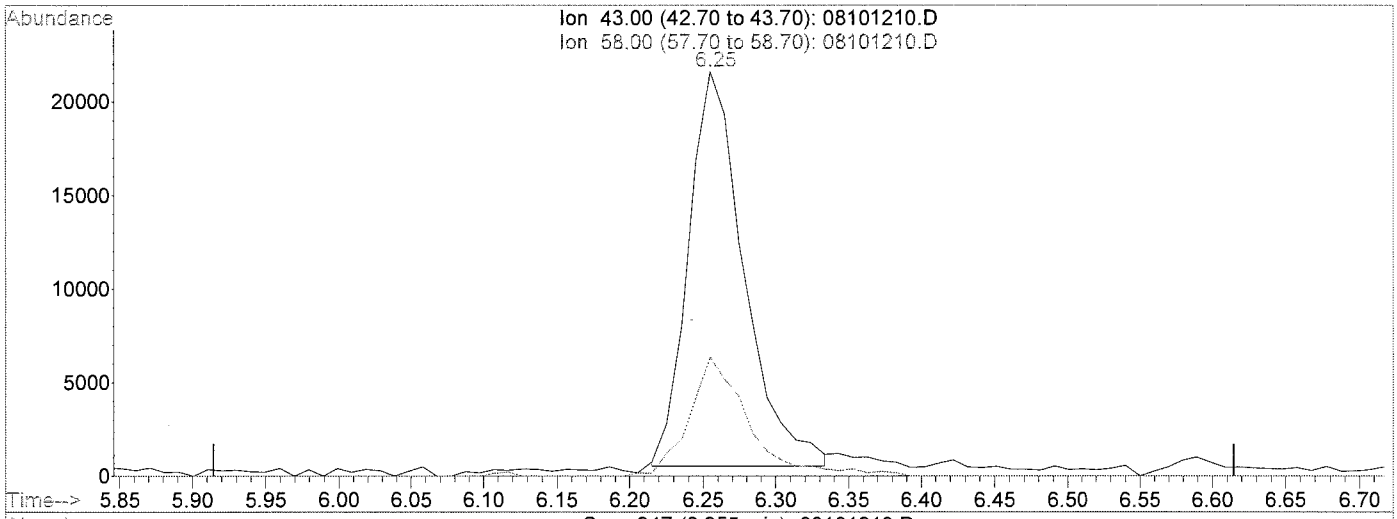
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

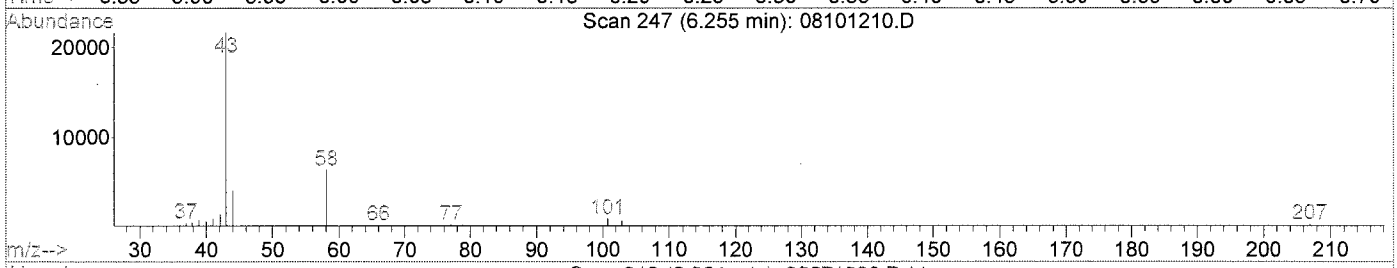
BL MNM 8/13/12

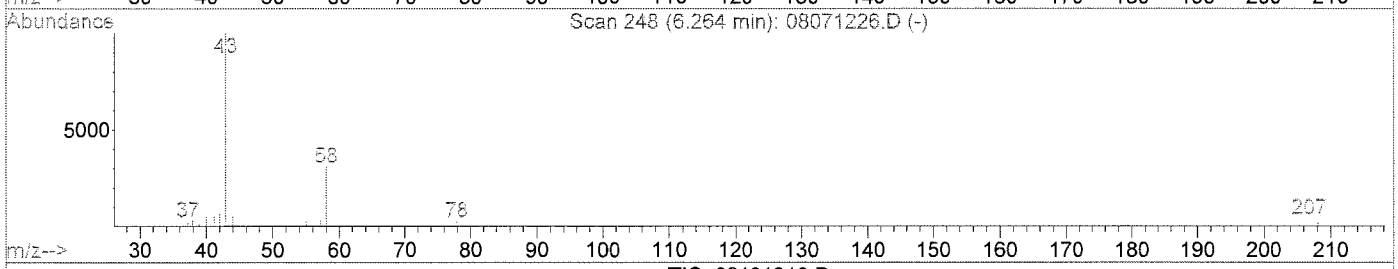
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 51.71ug/L m

response 55932

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.32#
0.00	0.00	0.00
0.00	0.00	0.00

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	54.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 216.48%	
48) Toluene-d8	13.33	98	687603	51.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 207.00%	
62) 4-Bromofluorobenzene	16.96	95	191956	48.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 195.48%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12766m	348.44 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	229.78 ug/L	98
5) Dichlorodifluoromethane	4.11	85	495471	52.70 ug/L	98
6) Chloromethane	4.36	50	463586	47.80 ug/L	100
7) Vinyl Chloride	4.63	62	430153	56.30 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	53.58 ug/L	90
9) Bromomethane	5.19	94	266149	54.04 ug/L	98
10) Chloroethane	5.38	64	224829	53.22 ug/L	95
11) Trichlorofluoromethane	6.12	101	394660	48.80 ug/L	100
12) Acetone	6.25	43	55932m	51.71 ug/L	
13) Iodomethane	6.86	142	447731	51.73 ug/L	93
14) 1,1-Dichloroethene	6.81	96	253470	53.37 ug/L #	77
15) Methylene Chloride	7.00	84	232960	49.18 ug/L	87
16) Freon 113	7.07	101	270520	50.78 ug/L	99
17) Carbon disulfide	7.30	76	898748	51.58 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	303726	59.07 ug/L	91
19) MTBE	8.01	73	432429	51.81 ug/L	99
20) 1,1-Dichloroethane	8.18	63	476710	54.34 ug/L	98
21) Vinyl Acetate	8.34	43	345852	50.60 ug/L #	95
22) n-Hexane	8.69	86	77107	63.23 ug/L	78
23) 2-Butanone (MEK)	8.72	72	17742	58.03 ug/L #	70
24) Diisopropyl Ether (DIPE)	8.73	45	798842	53.65 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	279884	61.29 ug/L	88
26) Bromochloromethane	9.12	128	116879	60.79 ug/L	97
27) Chloroform	9.18	83	417208	54.86 ug/L #	94
28) 2,2-Dichloropropane	9.27	77	310117	48.46 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	52.09 ug/L	96
31) Tetrahydrofuran	9.60	72	16252	53.21 ug/L	79
32) 1,2-Dichloroethane	10.01	62	203344	45.78 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	353898	53.82 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	466510	55.73 ug/L	92
36) 1,1-Dichloropropene	10.38	75	398689	52.55 ug/L	96
37) Carbon Tetrachloride	10.61	117	317819	47.76 ug/L	98
38) Benzene	10.66	78	947346	53.88 ug/L #	91
39) Dibromomethane	11.39	93	114917	54.08 ug/L	94
40) 1,2-Dichloropropane	11.44	63	221264	51.47 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Trichloroethene	11.49	95	265281	53.95 ug/L		97
42) Bromodichloromethane	11.55	83	271789	50.29 ug/L		97
43) 2-Chlorovinylethylether	12.09	63	88468	64.86 ug/L		95
44) cis-1,3-Dichloropropene	12.38	75	321115	57.35 ug/L	#	83
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	41.86 ug/L		99
46) trans-1,3-Dichloropropene	12.95	75	237953	47.29 ug/L	#	84
47) 1,1,2-Trichloroethane	13.17	97	137777	55.59 ug/L		91
49) Toluene	13.42	92	546857	58.28 ug/L		98
51) 1,3-Dichloropropane	13.48	76	244280	53.12 ug/L		99
52) 2-Hexanone	13.68	43	100587	49.14 ug/L	#	88
53) Dibromochloromethane	13.85	129	183912	55.09 ug/L		100
54) 1,2-Dibromoethane	14.18	107	142282	54.39 ug/L		96
55) Tetrachloroethene	14.41	164	226510	51.21 ug/L		99
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	51.39 ug/L		97
57) Chlorobenzene	15.32	112	554587	58.64 ug/L		94
58) Ethylbenzene	15.58	91	975473	56.56 ug/L		96
59) m,p-Xylenes	15.85	106	377996	60.35 ug/L		91
60) Styrene	16.30	104	514481	62.85 ug/L	#	92
61) o-Xylene	16.40	106	349209	61.28 ug/L		91
64) Bromoform	16.01	173	108591	47.26 ug/L		96
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	52.54 ug/L		97
66) 1,2,3-Trichloropropane	16.59	110	37829	48.36 ug/L		99
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	41.70 ug/L	#	75
68) Isopropylbenzene	16.90	105	857226	53.54 ug/L		97
69) Bromobenzene	17.25	156	212979	51.54 ug/L		92
70) n-Propylbenzene	17.51	91	1098531	54.22 ug/L		98
71) 2-Chlorotoluene	17.65	91	577687	49.10 ug/L		96
72) 4-Chlorotoluene	17.75	91	568985	50.86 ug/L		93
73) 1,3,5-Trimethylbenzene	17.91	105	676601	54.29 ug/L		95
74) tert-Butylbenzene	18.30	119	601956	53.60 ug/L		92
75) 1,2,4-Trimethylbenzene	18.46	105	638890	54.52 ug/L		95
76) sec-Butylbenzene	18.61	105	960020	56.47 ug/L		98
77) 1,3-Dichlorobenzene	18.72	146	388318	55.49 ug/L		97
78) 1,4-Dichlorobenzene	18.81	146	375463	56.84 ug/L		98
79) p-Isopropyltoluene	18.86	119	742254	58.52 ug/L		95
80) 1,2-Dichlorobenzene	19.28	146	317732	56.00 ug/L		99
81) n-Butylbenzene	19.39	91	715599	60.99 ug/L		99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	48.97 ug/L		84
83) 1,2,4-Trichlorobenzene	21.51	180	170461	56.69 ug/L		100
84) Napthalene	21.83	128	258045	55.90 ug/L		99
85) Hexachlorobutadiene	21.88	225	111824	36.05 ug/L		98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	55.90 ug/L		98

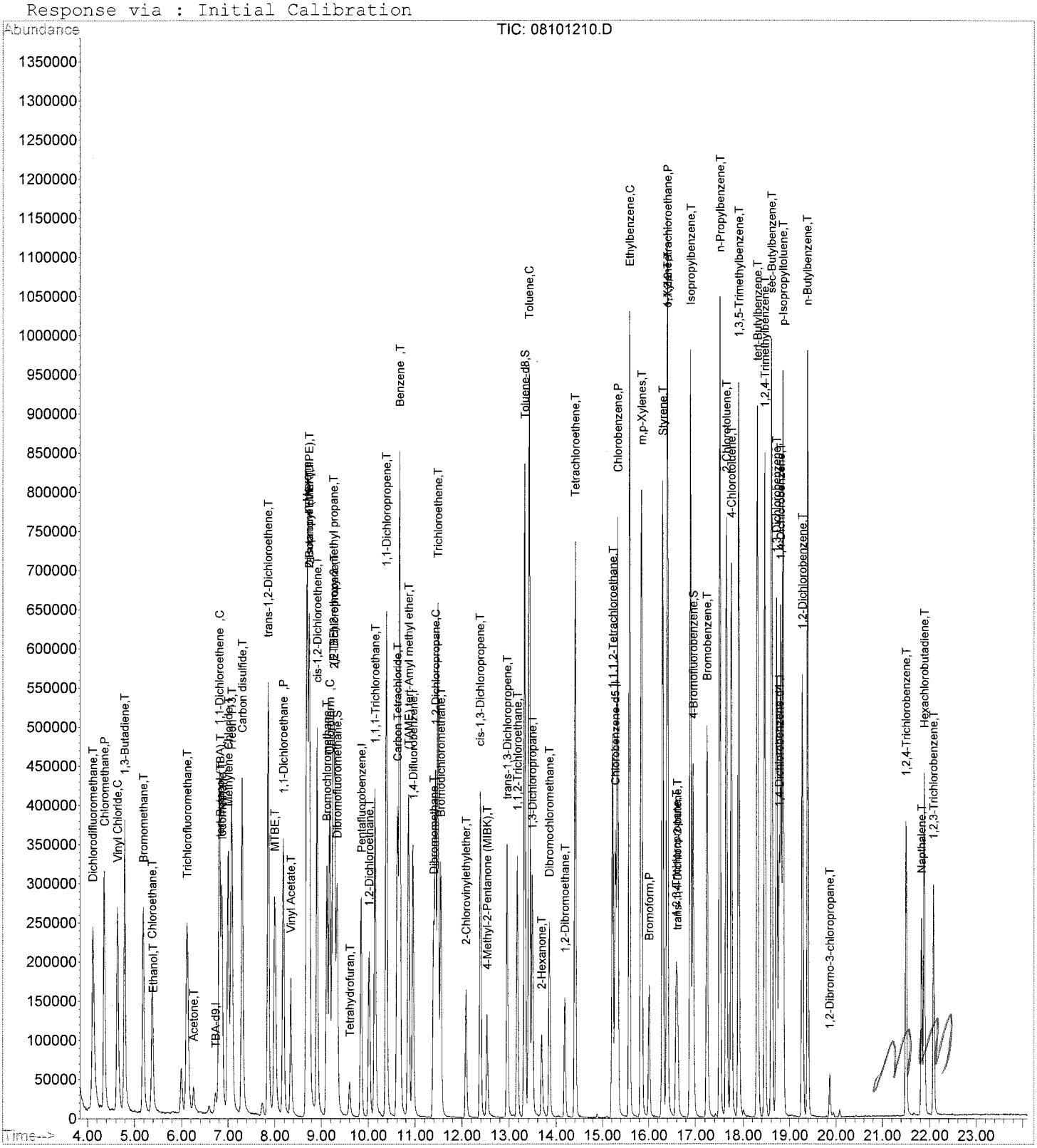
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

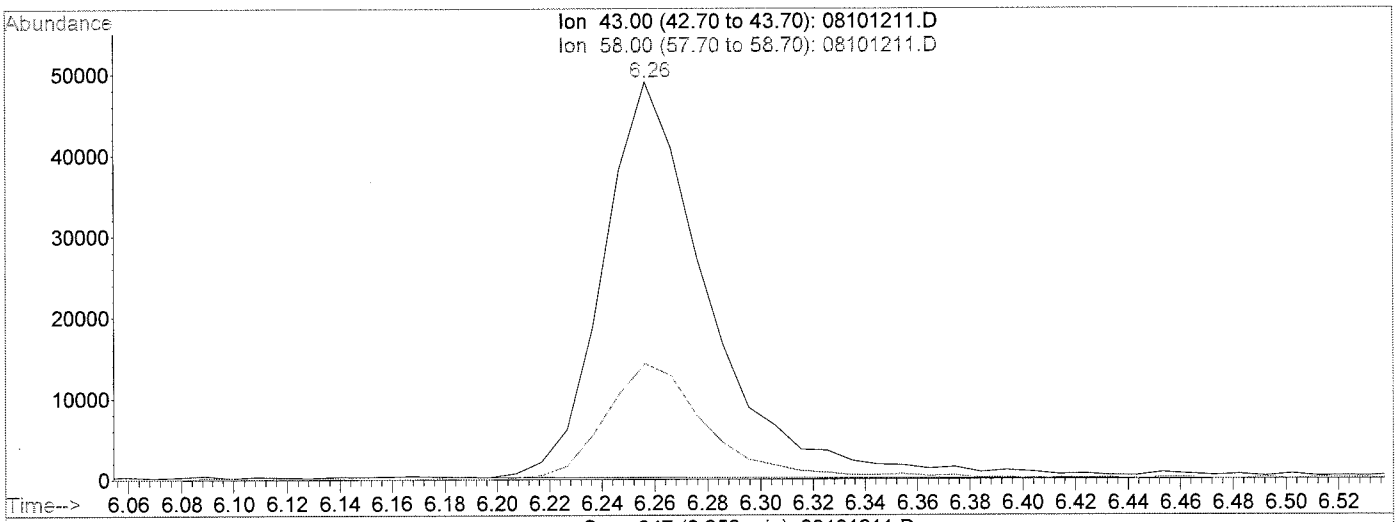
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

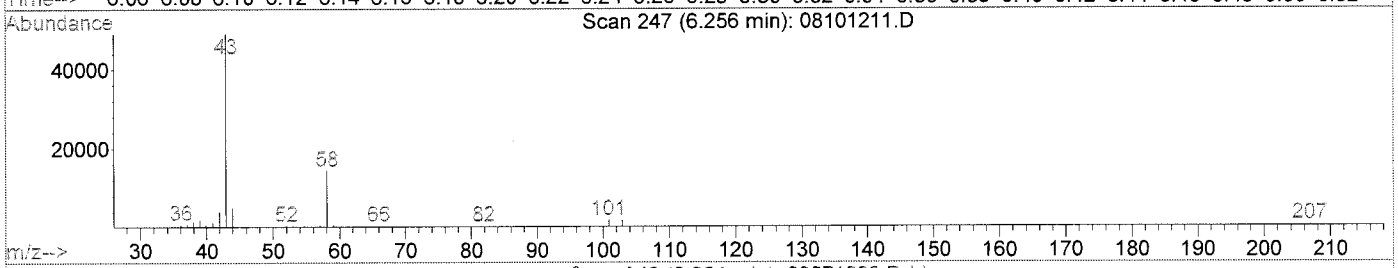


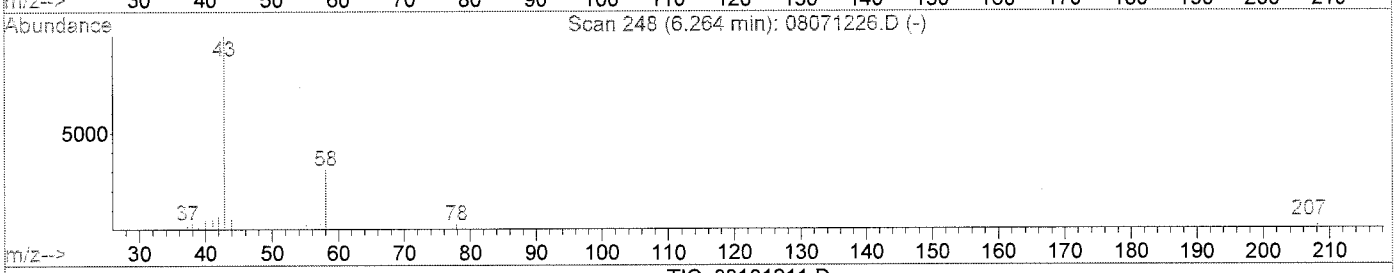
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 124.13ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

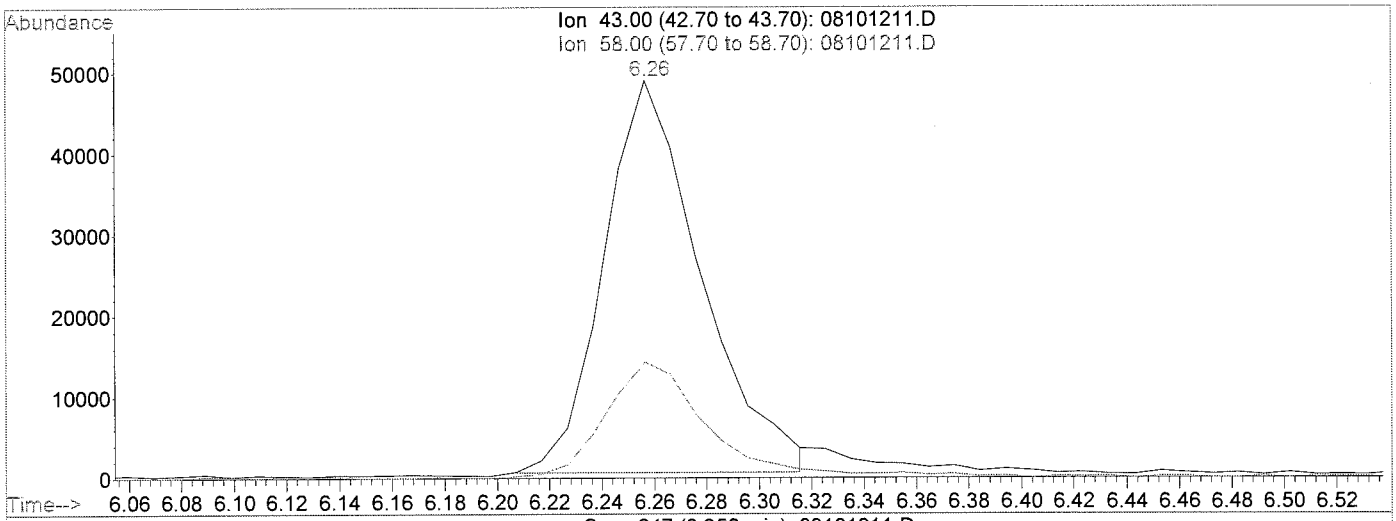
BL

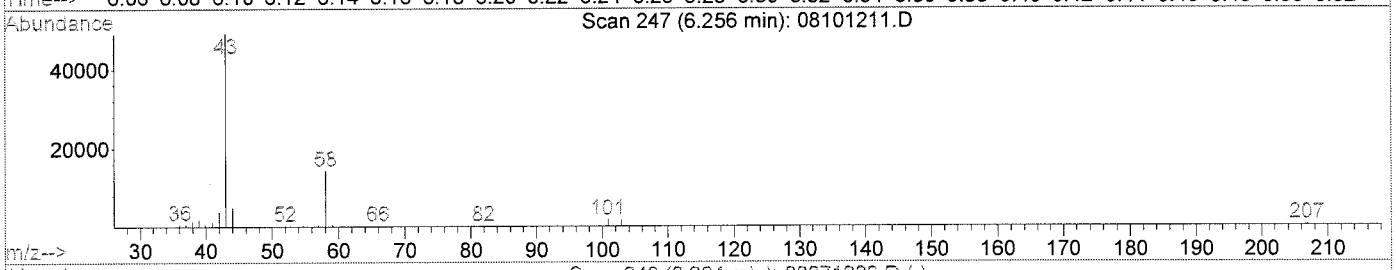
MM 8/13/12

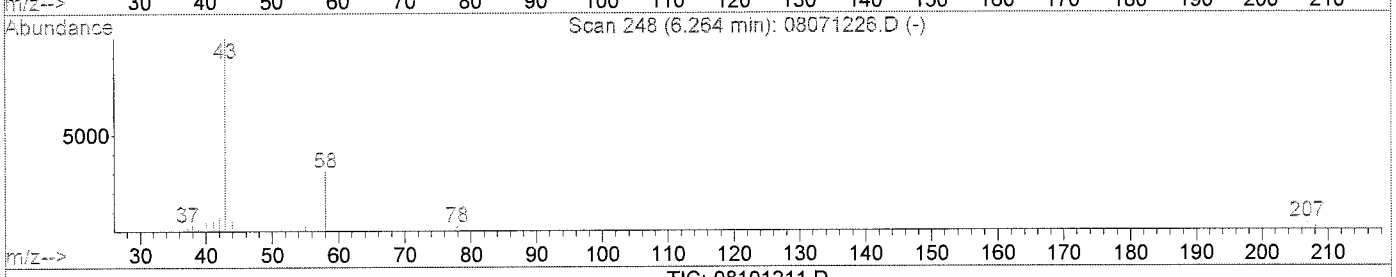
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 112.83ug/L m

response 124363

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	31.75#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	112.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 448.96%	
48) Toluene-d8	13.33	98	1402084	102.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 409.44%	
62) 4-Bromofluorobenzene	16.96	95	412368	103.79 ug/L	0.00
Spiked Amount 25.000			Recovery	= 415.16%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	845.73 ug/L	87
3) tert-Butanol (TBA)	6.84	59	168336	487.29 ug/L	98
5) Dichlorodifluoromethane	4.11	85	964320	100.65 ug/L	100
6) Chloromethane	4.35	50	890682	90.12 ug/L	99
7) Vinyl Chloride	4.63	62	798541	102.57 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	102.57 ug/L	91
9) Bromomethane	5.18	94	525441	104.71 ug/L	97
10) Chloroethane	5.38	64	441624	102.59 ug/L	97
11) Trichlorofluoromethane	6.11	101	763247	92.62 ug/L	98
12) Acetone	6.26	43	124363m	112.83 ug/L	
13) Iodomethane	6.87	142	901113	102.17 ug/L	94
14) 1,1-Dichloroethene	6.81	96	508761	105.12 ug/L #	76
15) Methylene Chloride	7.00	84	470851	97.56 ug/L	86
16) Freon 113	7.07	101	528427	97.35 ug/L	99
17) Carbon disulfide	7.30	76	1756954	98.95 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	597492	114.05 ug/L	88
19) MTBE	8.01	73	913608	107.43 ug/L	99
20) 1,1-Dichloroethane	8.18	63	943450	105.54 ug/L	98
21) Vinyl Acetate	8.34	43	745936	107.10 ug/L #	96
22) n-Hexane	8.69	86	148544	119.54 ug/L	80
23) 2-Butanone (MEK)	8.73	72	42692	137.03 ug/L #	31
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	108.15 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	568187	122.11 ug/L	88
26) Bromochloromethane	9.12	128	236072	120.50 ug/L	98
27) Chloroform	9.18	83	844569	108.99 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	597220	91.59 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	107.12 ug/L	96
31) Tetrahydrofuran	9.60	72	36606	117.61 ug/L #	75
32) 1,2-Dichloroethane	10.01	62	408116	90.17 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	706415	105.43 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	119.50 ug/L	91
36) 1,1-Dichloropropene	10.38	75	752175	96.17 ug/L	95
37) Carbon Tetrachloride	10.61	117	629787	91.80 ug/L	98
38) Benzene	10.66	78	1918047	105.83 ug/L #	91
39) Dibromomethane	11.39	93	240215	109.65 ug/L	94
40) 1,2-Dichloropropane	11.44	63	454008	102.45 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.49	95	523897	103.35 ug/L		96
42)	Bromodichloromethane	11.55	83	571821	102.64 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	190358	122.05 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	663914	115.02 ug/L	#	82
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	91.20 ug/L		94
46)	trans-1,3-Dichloropropene	12.95	75	509355	97.85 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	286704	112.22 ug/L	#	90
49)	Toluene	13.43	92	1076337	111.27 ug/L		97
51)	1,3-Dichloropropane	13.49	76	517001	111.13 ug/L		99
52)	2-Hexanone	13.68	43	235539	113.74 ug/L	#	89
53)	Dibromochloromethane	13.85	129	396223	117.33 ug/L		99
54)	1,2-Dibromoethane	14.18	107	308443	116.56 ug/L		97
55)	Tetrachloroethene	14.41	164	452394	101.11 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	101.04 ug/L		95
57)	Chlorobenzene	15.33	112	1118631	116.92 ug/L		93
58)	Ethylbenzene	15.58	91	1923271	110.23 ug/L		96
59)	m,p-Xylenes	15.85	106	762608	120.37 ug/L		90
60)	Styrene	16.30	104	1032436	124.69 ug/L	#	92
61)	o-Xylene	16.40	106	651161	112.96 ug/L		92
64)	Bromoform	16.01	173	219950	89.79 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	104.83 ug/L		97
66)	1,2,3-Trichloropropane	16.59	110	78214	103.05 ug/L		100
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	88.29 ug/L	#	76
68)	Isopropylbenzene	16.90	105	1628971	104.87 ug/L		98
69)	Bromobenzene	17.24	156	425714	106.19 ug/L		93
70)	n-Propylbenzene	17.51	91	2114087	107.55 ug/L		98
71)	2-Chlorotoluene	17.65	91	1126734	98.72 ug/L		95
72)	4-Chlorotoluene	17.75	91	1125554	103.70 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	102.08 ug/L		95
74)	tert-Butylbenzene	18.31	119	1083175	99.41 ug/L		92
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	103.46 ug/L		95
76)	sec-Butylbenzene	18.61	105	1705621	103.42 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	699081	102.97 ug/L		98
78)	1,4-Dichlorobenzene	18.82	146	702424	109.61 ug/L		97
79)	p-Isopropyltoluene	18.86	119	1317395	107.06 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	538352	97.79 ug/L		99
81)	n-Butylbenzene	19.40	91	1266655	111.28 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	79.94 ug/L	#	78
83)	1,2,4-Trichlorobenzene	21.50	180	271631	93.12 ug/L		99
84)	Napthalene	21.83	128	441804	98.64 ug/L		99
85)	Hexachlorobutadiene	21.89	225	166042	67.42 ug/L		99
86)	1,2,3-Trichlorobenzene	22.08	180	218534	95.26 ug/L		97

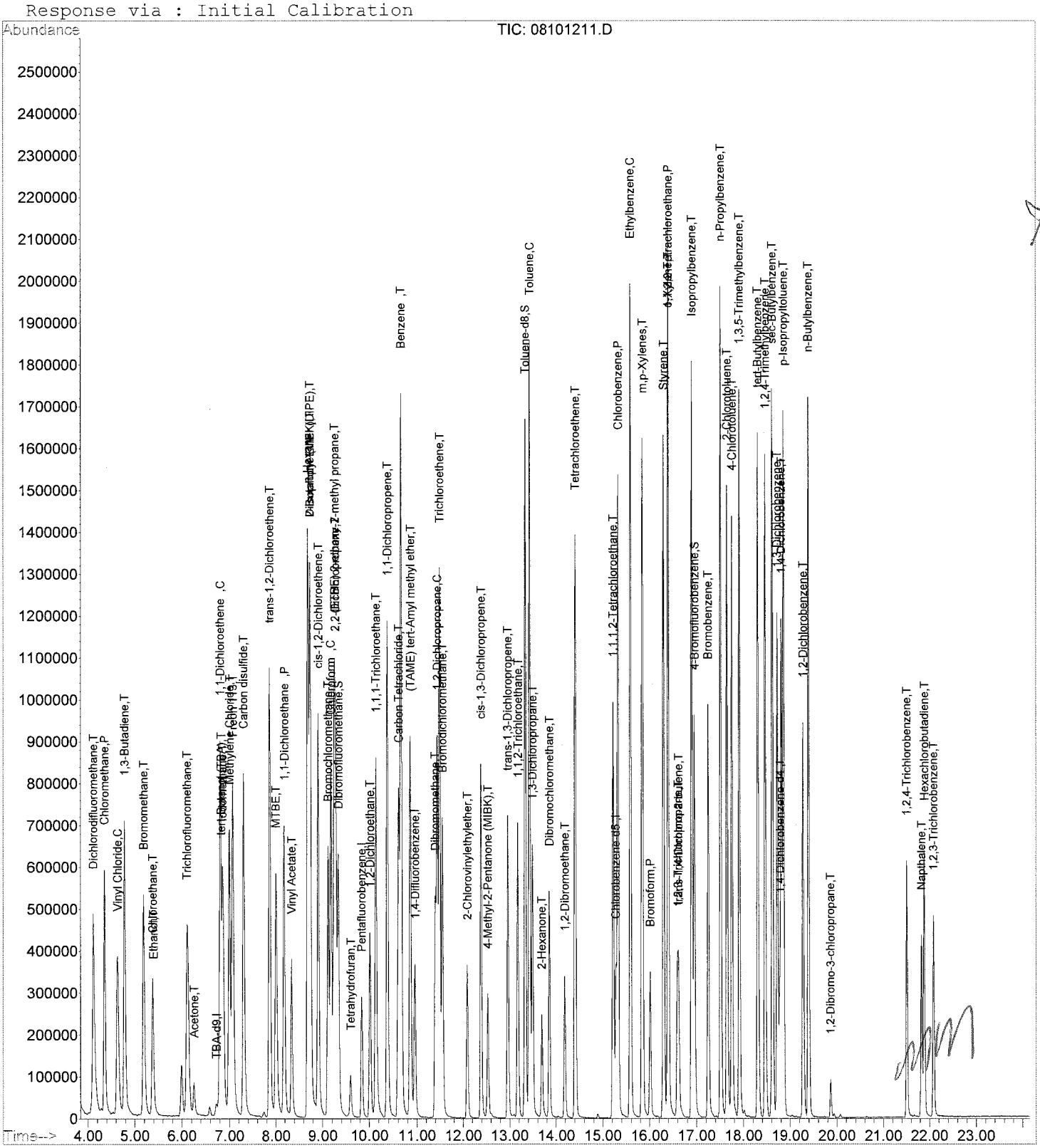
MNM

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

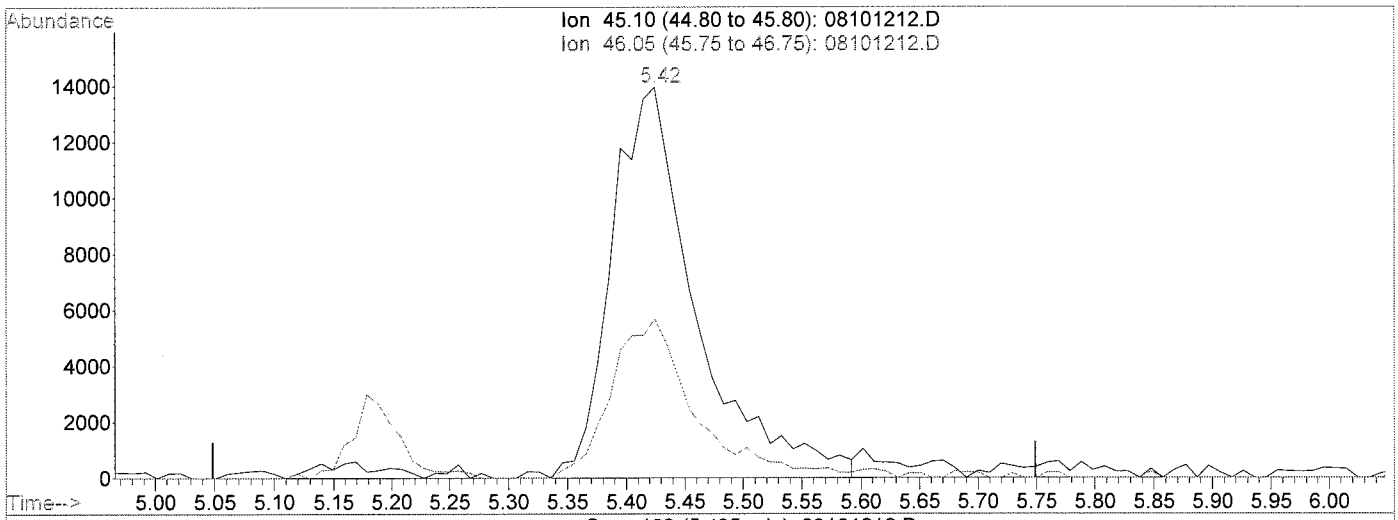
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

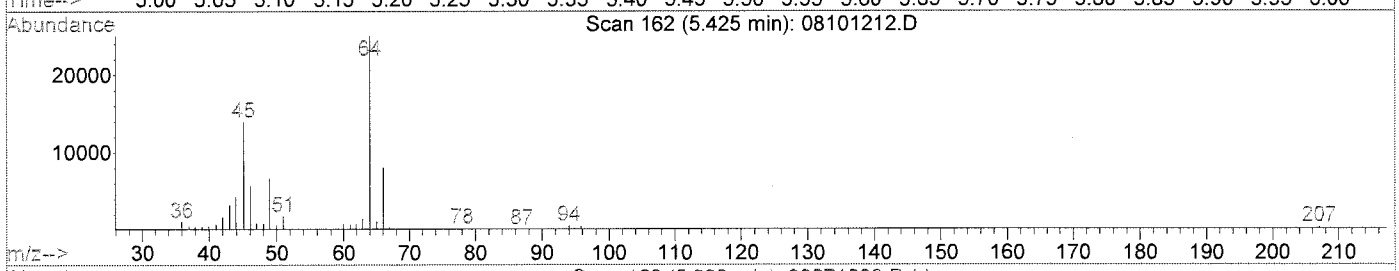


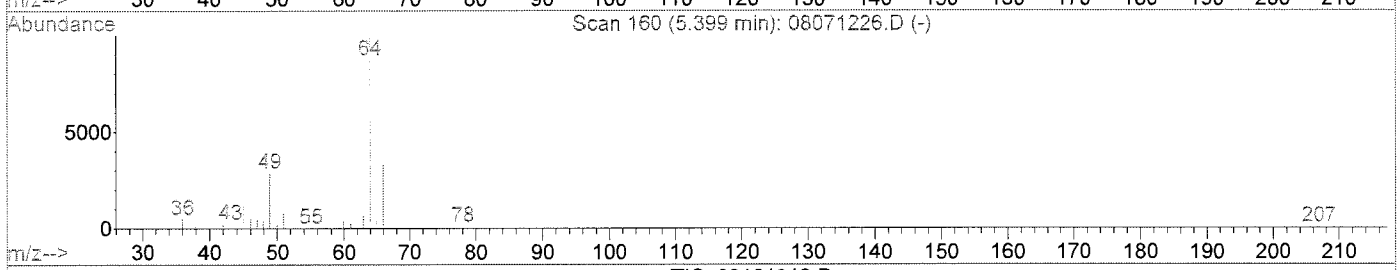
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2144.22ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	40.18
0.00	0.00	0.00
0.00	0.00	0.00

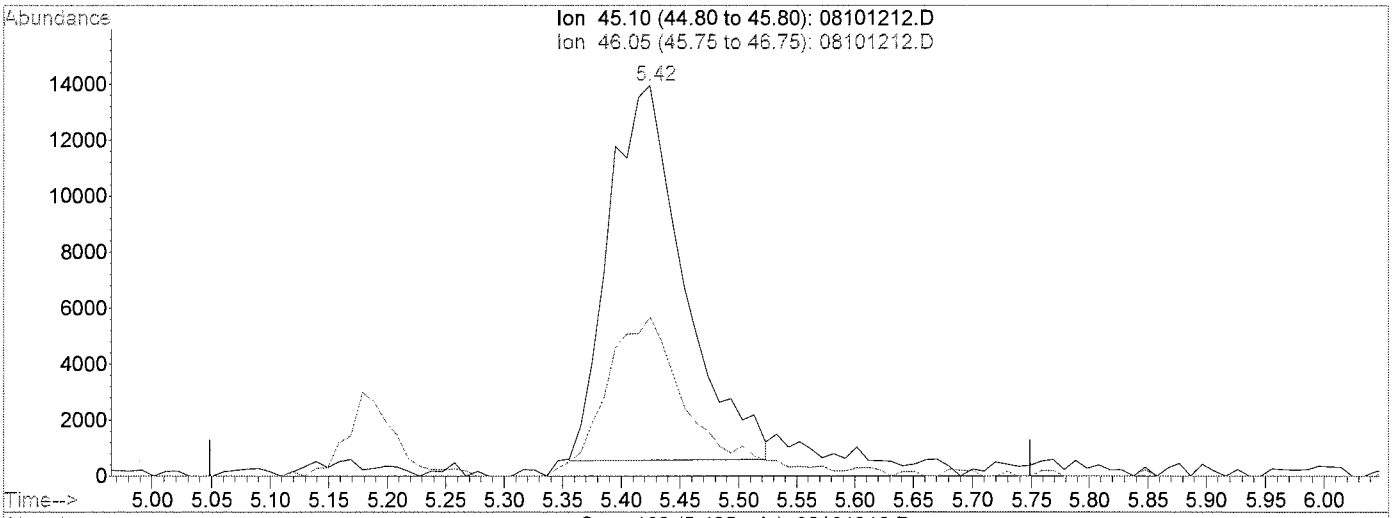
8/13/12

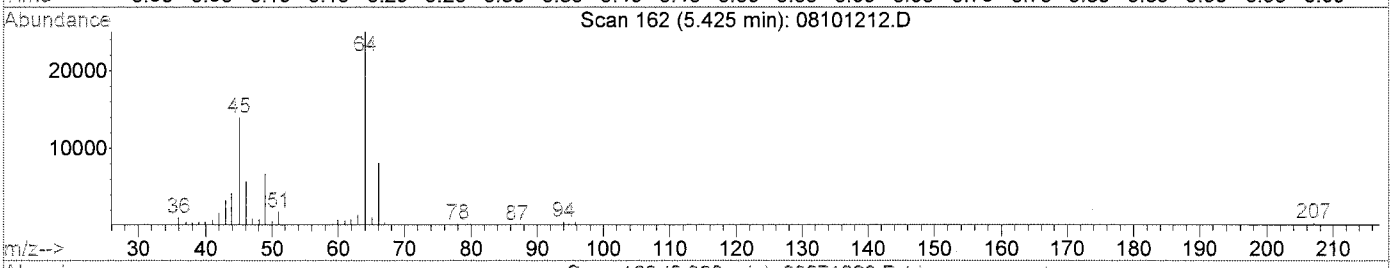
DL MM 8/13/12

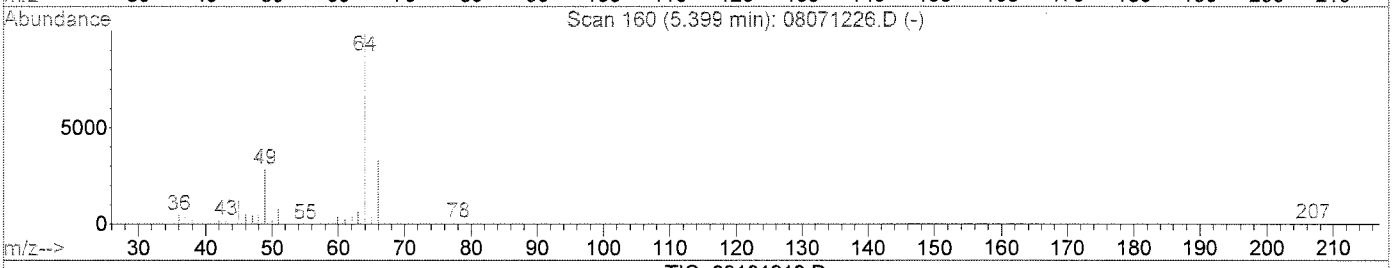
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 1816.70ug/L m

response 59372

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.42
0.00	0.00	0.00
0.00	0.00	0.00

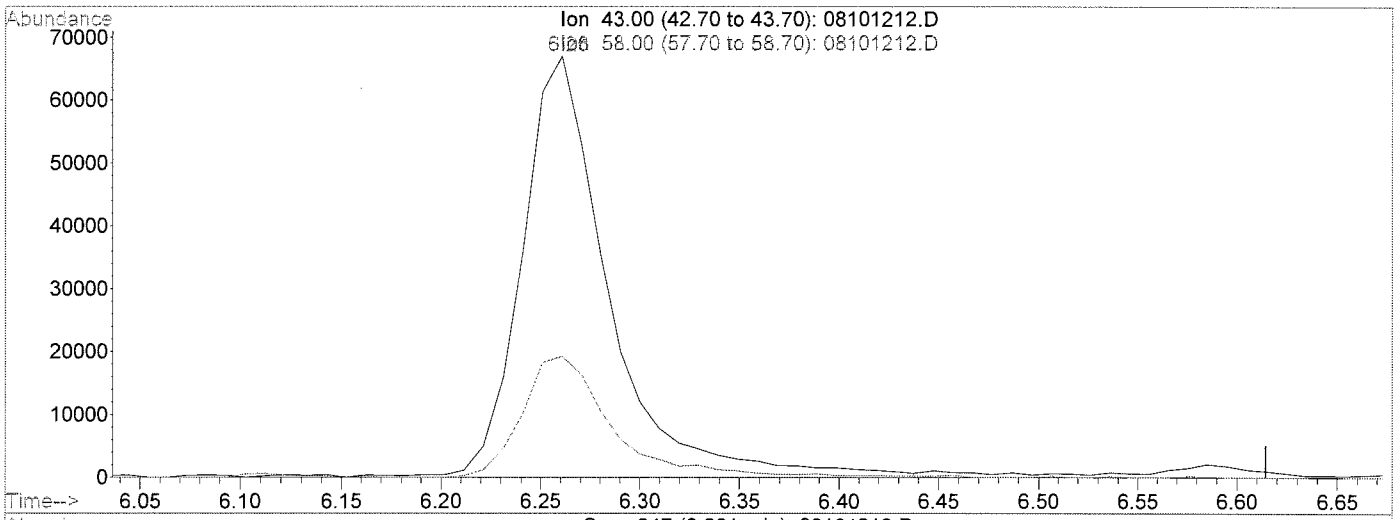
8/13/12

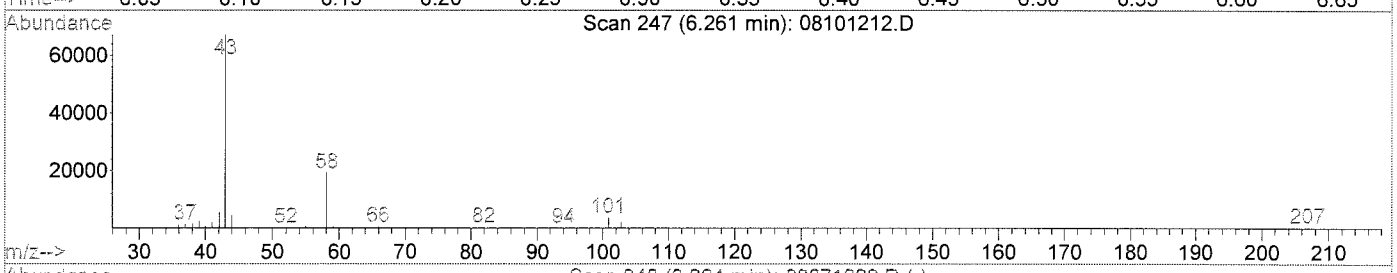
MM 8/13/12

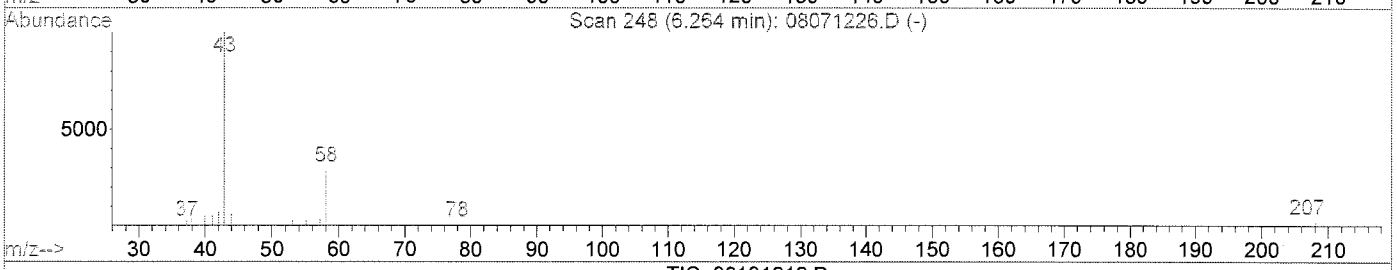
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 191.80ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	29.87#
0.00	0.00	0.00
0.00	0.00	0.00

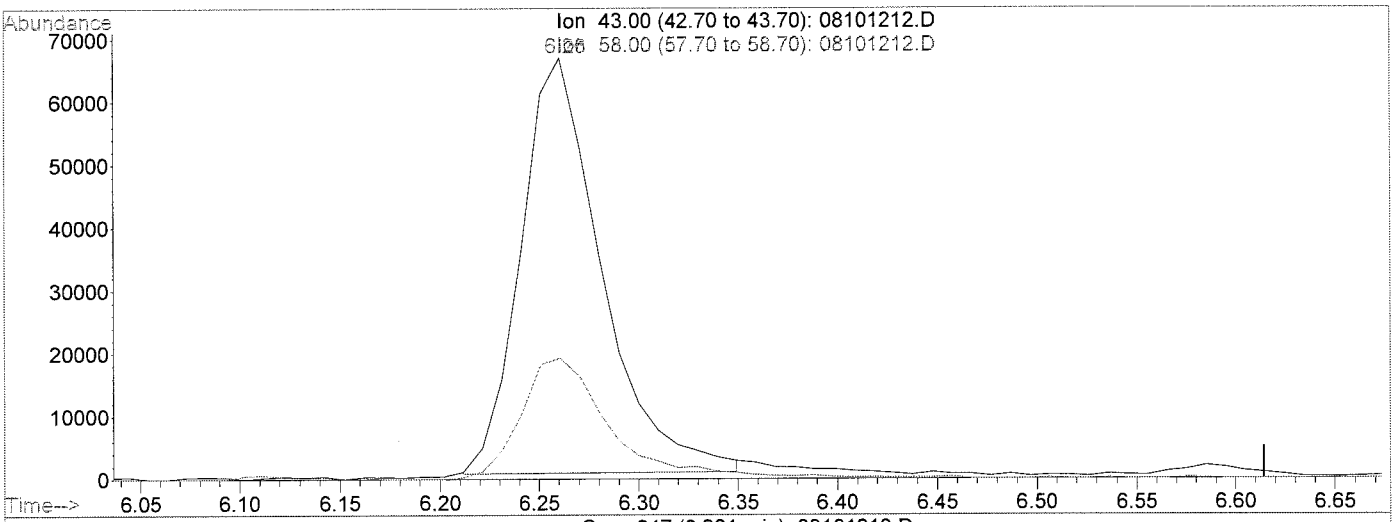
BL

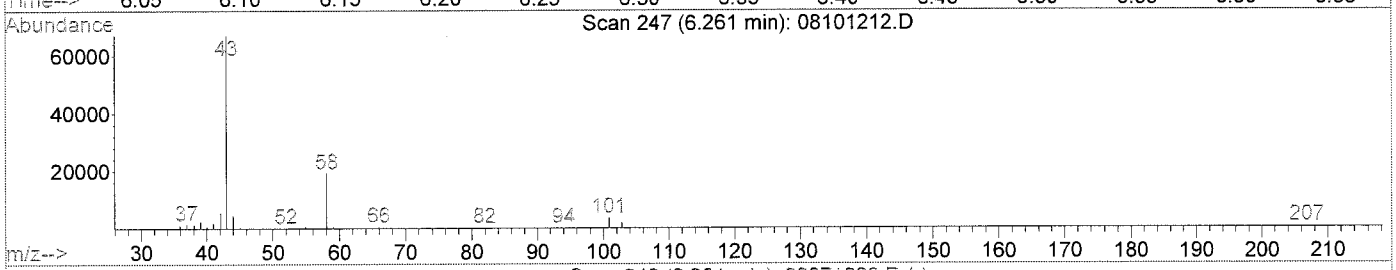
MM 8/13/12

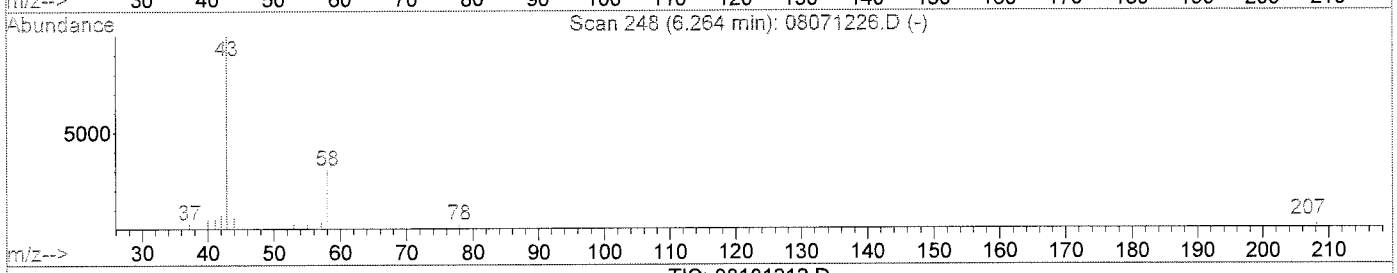
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 175.08ug/L m

response 186273

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.72#
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	232.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 930.60%	
48) Toluene-d8	13.33	98	2766585	213.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 855.28%	
62) 4-Bromofluorobenzene	16.96	95	772758	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59372m	1816.70 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1088.44 ug/L	97
5) Dichlorodifluoromethane	4.12	85	1798928	194.53 ug/L	100
6) Chloromethane	4.35	50	1636489	171.54 ug/L	100
7) Vinyl Chloride	4.62	62	1314727	174.95 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	198.47 ug/L	91
9) Bromomethane	5.19	94	991158	204.62 ug/L	97
10) Chloroethane	5.38	64	798291	192.12 ug/L	97
11) Trichlorofluoromethane	6.11	101	1442227	181.32 ug/L	98
12) Acetone	6.26	43	186273m	175.08 ug/L	
13) Iodomethane	6.86	142	1691791	198.72 ug/L	94
14) 1,1-Dichloroethene	6.80	96	959183	205.33 ug/L #	75
15) Methylene Chloride	7.00	84	866879	186.08 ug/L	86
16) Freon 113	7.07	101	1005834	191.97 ug/L	99
17) Carbon disulfide	7.30	76	3351895	195.57 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	1151435	227.70 ug/L	88
19) MTBE	8.00	73	1705610	207.77 ug/L	99
20) 1,1-Dichloroethane	8.18	63	1809927	209.75 ug/L	97
21) Vinyl Acetate	8.34	43	1413743	210.29 ug/L #	94
22) n-Hexane	8.69	86	285278	237.85 ug/L	76
23) 2-Butanone (MEK)	8.72	72	74546	247.88 ug/L #	32
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	211.74 ug/L	95
25) cis-1,2-Dichloroethene	8.92	96	1089239	242.53 ug/L	86
26) Bromochloromethane	9.12	128	469231	248.13 ug/L	86
27) Chloroform	9.18	83	1657554	221.61 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	1146423	182.15 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	208.43 ug/L	95
31) Tetrahydrofuran	9.60	72	68814	229.05 ug/L #	76
32) 1,2-Dichloroethane	10.02	62	794737	181.92 ug/L	97
33) 1,1,1-Trichloroethane	10.15	97	1389872	214.91 ug/L	93
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	224.30 ug/L #	91
36) 1,1-Dichloropropene	10.38	75	1491816	201.91 ug/L	96
37) Carbon Tetrachloride	10.61	117	1253531	193.43 ug/L	98
38) Benzene	10.67	78	3652383	213.32 ug/L #	91
39) Dibromomethane	11.40	93	460678	222.61 ug/L	96
40) 1,2-Dichloropropane	11.43	63	868011	207.34 ug/L #	90

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

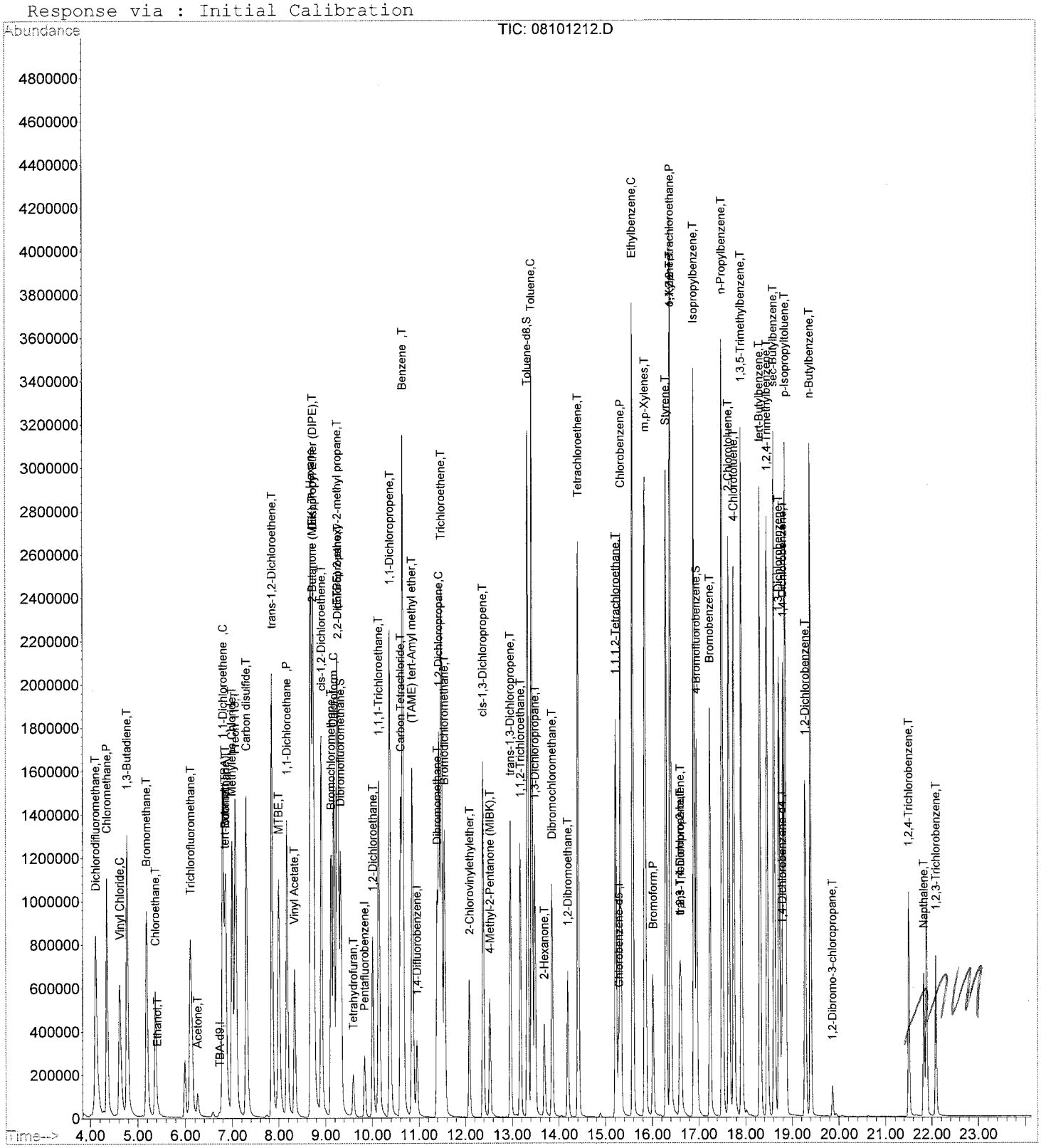
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	214.05 ug/L		95
42)	Bromodichloromethane	11.55	83	1076186	204.48 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	356836	210.26 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	1241936	227.77 ug/L	#	83
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	172.10 ug/L		95
46)	trans-1,3-Dichloropropene	12.96	75	974996	197.95 ug/L	#	84
47)	1,1,2-Trichloroethane	13.18	97	546786	226.55 ug/L	#	88
49)	Toluene	13.42	92	2055027	224.89 ug/L		96
51)	1,3-Dichloropropane	13.49	76	938228	211.31 ug/L		98
52)	2-Hexanone	13.69	43	386586	195.60 ug/L	#	89
53)	Dibromochloromethane	13.85	129	760108	235.83 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	233.17 ug/L		98
55)	Tetrachloroethene	14.41	164	884667	207.16 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	208.94 ug/L		96
57)	Chlorobenzene	15.33	112	2070815	226.78 ug/L		92
58)	Ethylbenzene	15.59	91	3553977	213.43 ug/L		94
59)	m,p-Xylenes	15.85	106	1442112	238.49 ug/L		88
60)	Styrene	16.30	104	1948462	246.56 ug/L	#	92
61)	o-Xylene	16.40	106	1266882	230.27 ug/L		90
64)	Bromoform	16.02	173	438702	176.77 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	213.16 ug/L		98
66)	1,2,3-Trichloropropane	16.60	110	133888	205.80 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	159.35 ug/L	#	71
68)	Isopropylbenzene	16.90	105	3024067	227.13 ug/L		96
69)	Bromobenzene	17.25	156	802086	233.39 ug/L		93
70)	n-Propylbenzene	17.51	91	3823645	226.92 ug/L		96
71)	2-Chlorotoluene	17.65	91	2041028	208.61 ug/L		95
72)	4-Chlorotoluene	17.76	91	2058362	221.24 ug/L		93
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	220.67 ug/L		94
74)	tert-Butylbenzene	18.31	119	1933954	207.06 ug/L		92
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	218.28 ug/L		93
76)	sec-Butylbenzene	18.62	105	3047825	215.58 ug/L		97
77)	1,3-Dichlorobenzene	18.72	146	1267811	217.85 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	1231960	224.27 ug/L		97
79)	p-Isopropyltoluene	18.86	119	2345916	222.41 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	944274	200.10 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	222.74 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	153.64 ug/L	#	71
83)	1,2,4-Trichlorobenzene	21.51	180	455405	182.12 ug/L		99
84)	Napthalene	21.83	128	697402	181.65 ug/L		100
85)	Hexachlorobutadiene	21.89	225	262810	Below Cal		100
86)	1,2,3-Trichlorobenzene	22.09	180	329008	167.36 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	292809	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	131913	24.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.24%	
48) Toluene-d8	13.33	98	397025	24.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.16%	
62) 4-Bromofluorobenzene	16.95	95	111862	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.88%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	543	18.33 ug/L #	21
9) Bromomethane	5.29	94	868	0.14 ug/L #	2
12) Acetone	6.25	43	1787	1.38 ug/L #	52
28) 2,2-Dichloropropane	9.30	77	770	0.10 ug/L #	66
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.36 ug/L #	27
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.13 ug/L #	37
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.11 ug/L #	61
84) Napthalene	21.84	128	1664	0.29 ug/L #	82
86) 1,2,3-Trichlorobenzene	22.07	180	380	Below Cal #	77

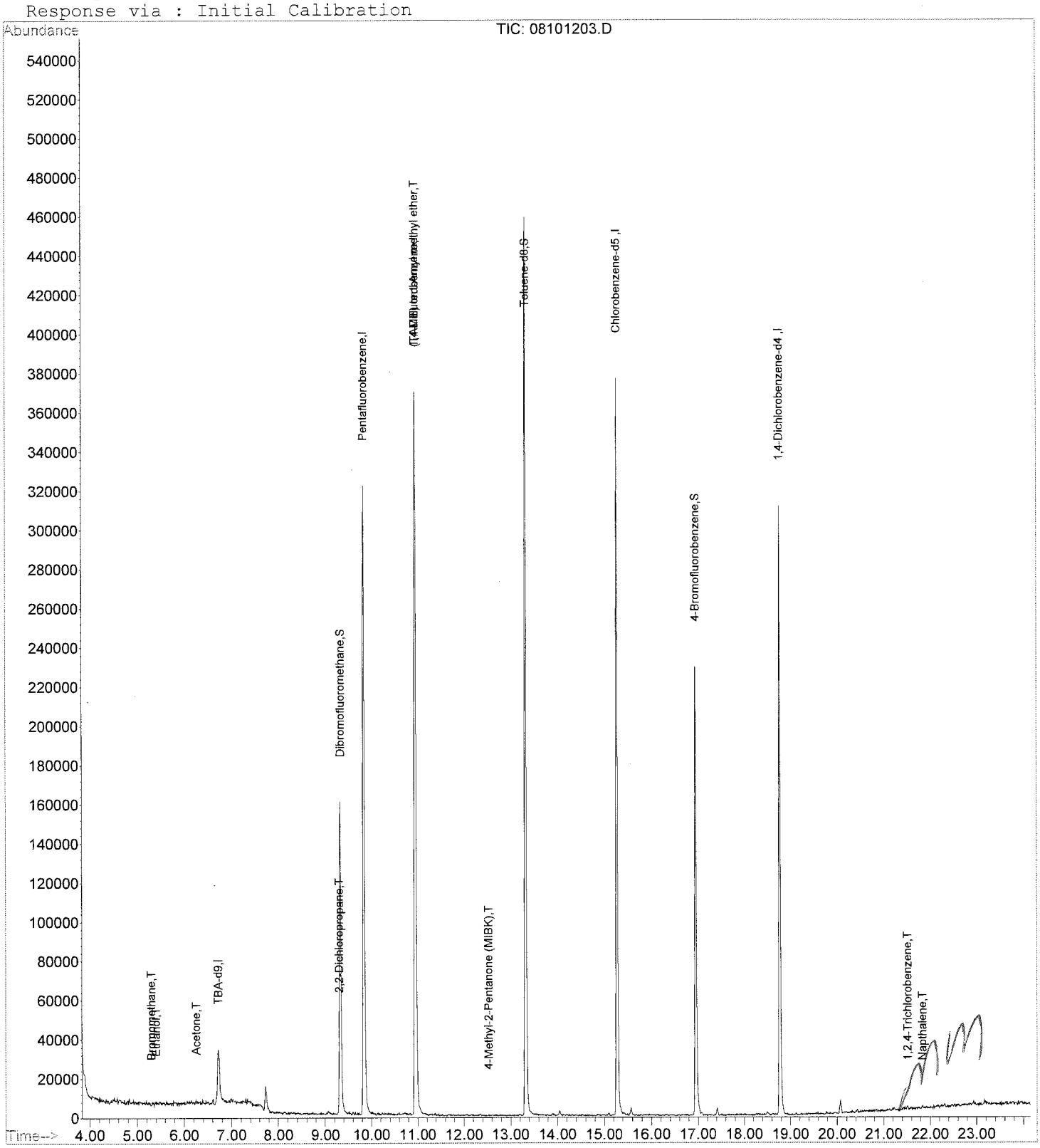
MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101203.D 081012.M Mon Aug 13 05:12:42 2012

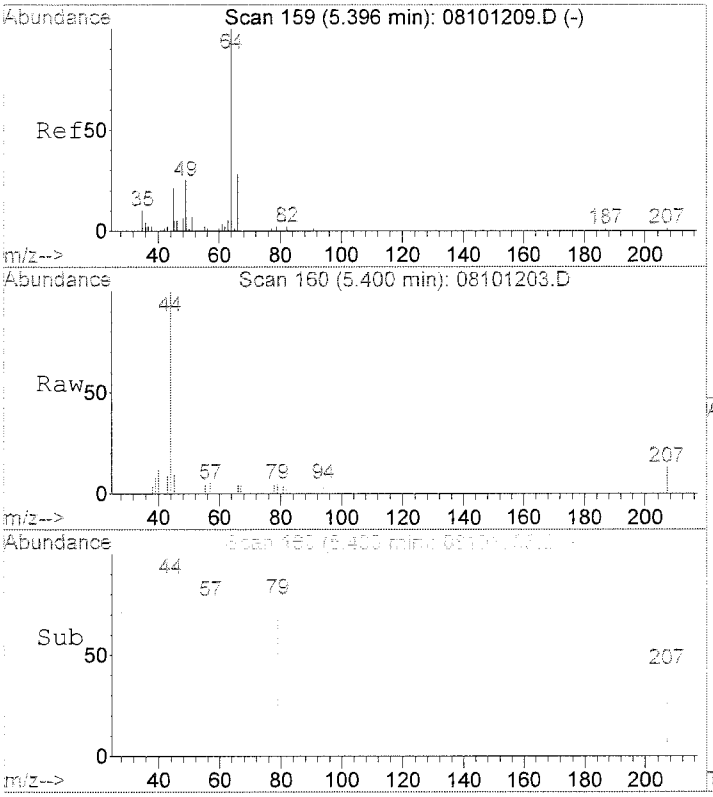
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



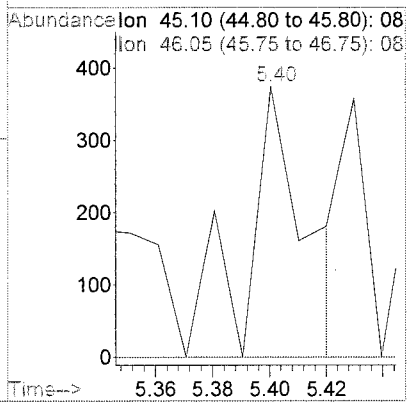
08101203.D 081012.M Mon Aug 13 05:12:43 2012

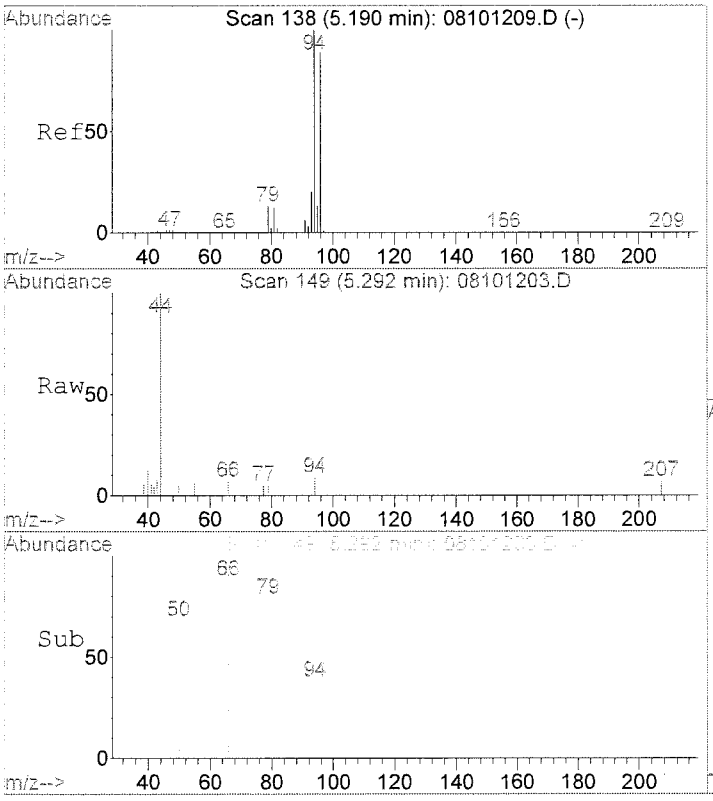


#2
Ethanol
Concen: 18.33 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 543

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.9	79.9#

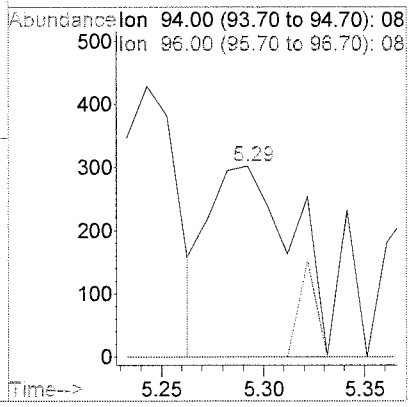


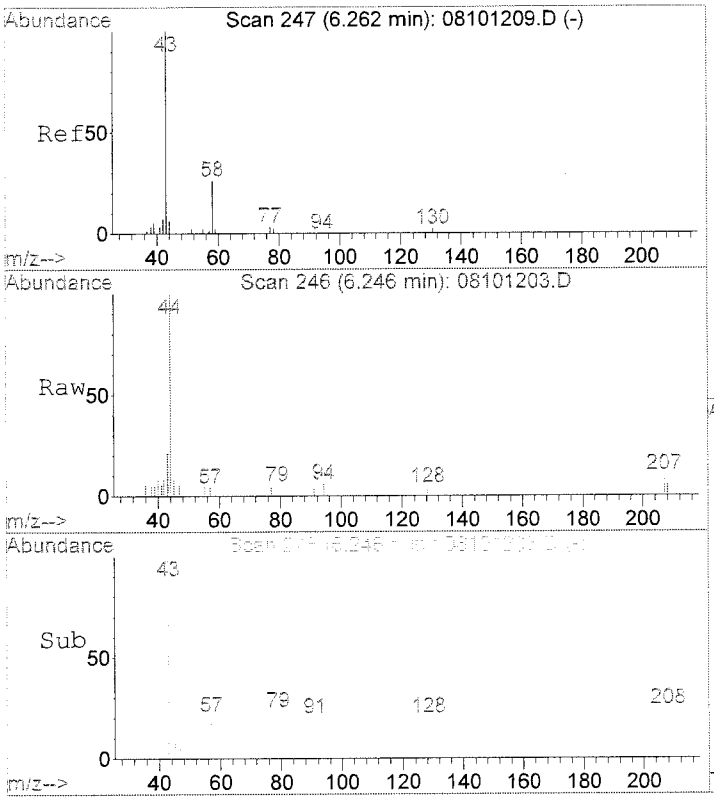


#9
Bromomethane
Concen: 0.14 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

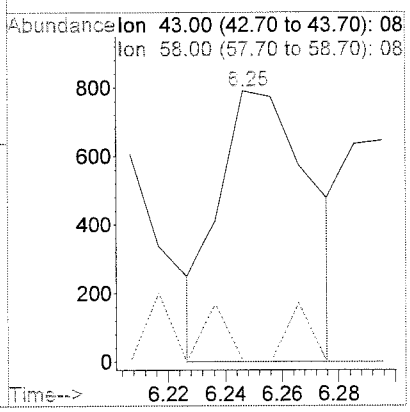


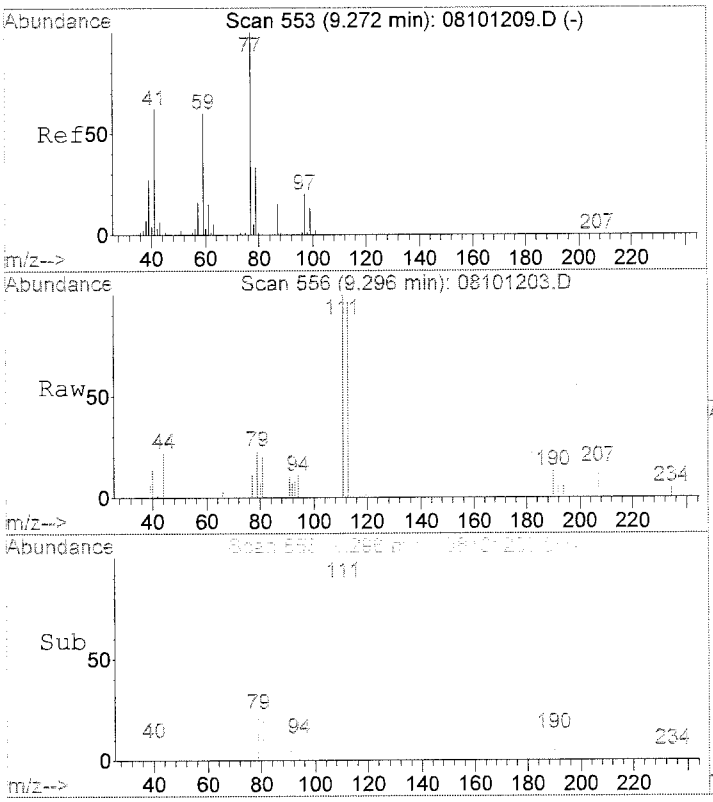


#12
Acetone
Concen: 1.38 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	25.9	38.9#

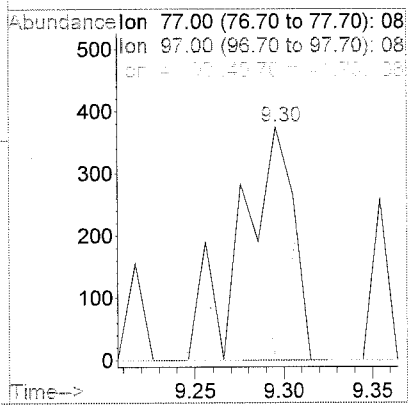


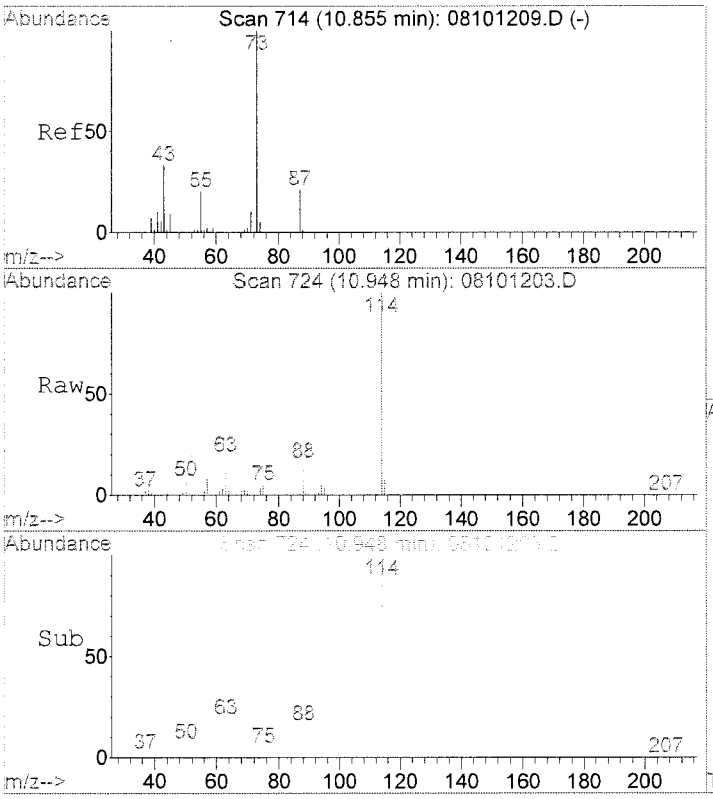


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.9	25.3#
41	52.9	64.1	96.1#

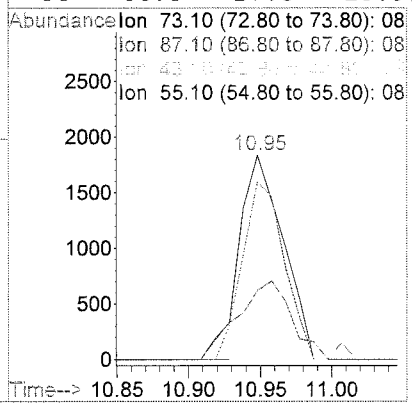


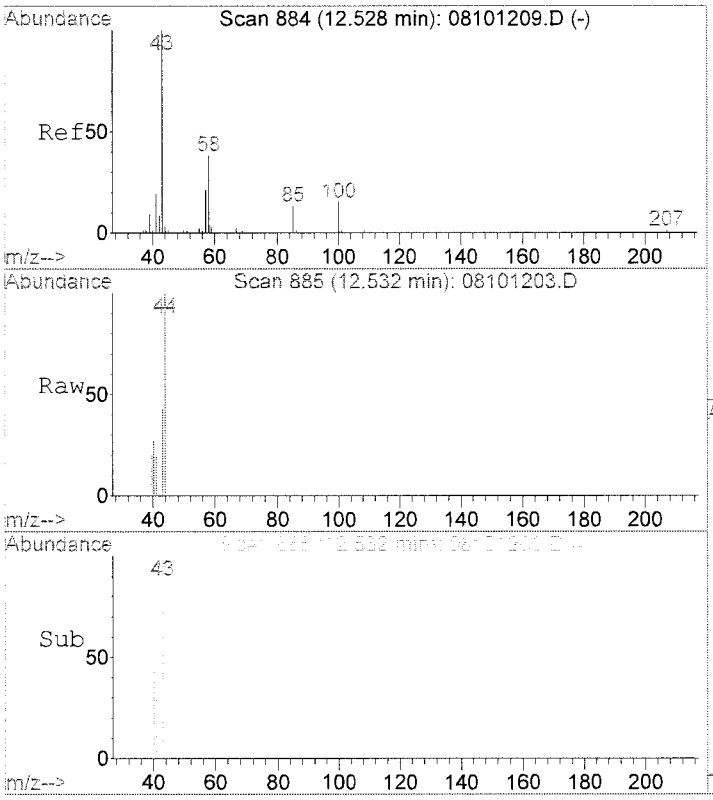


#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	16.4	24.6#
43	5.7	27.0	40.4#
55	46.5	17.3	25.9#

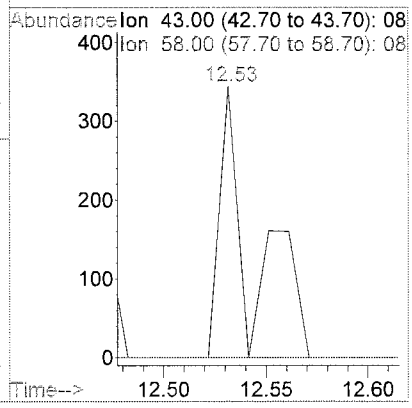


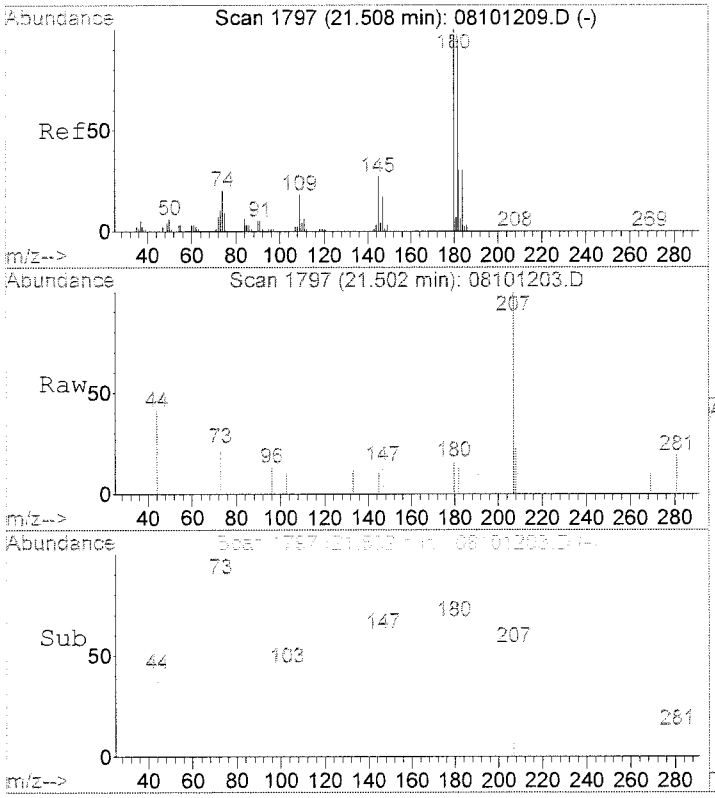


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.53 min Scan# 885
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

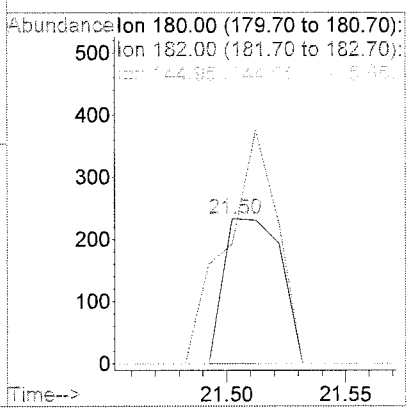


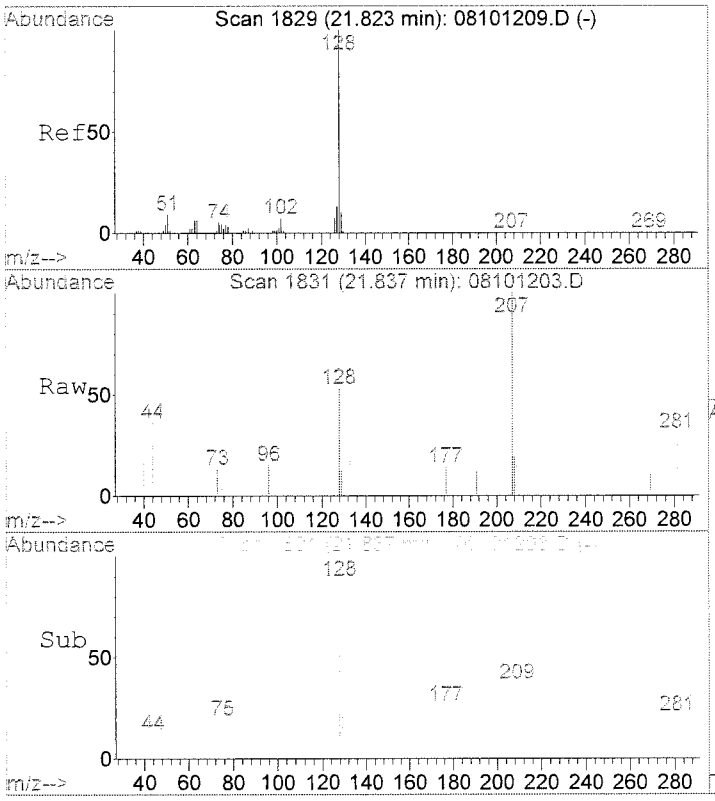


#83
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	77.9	116.9#
145	25.5	22.8	34.2

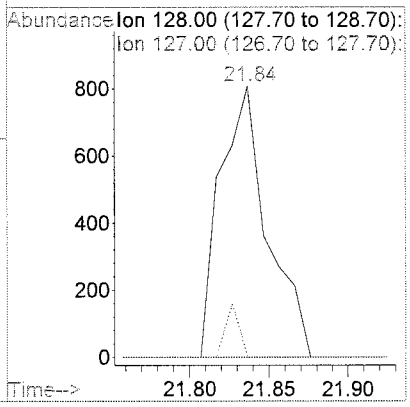


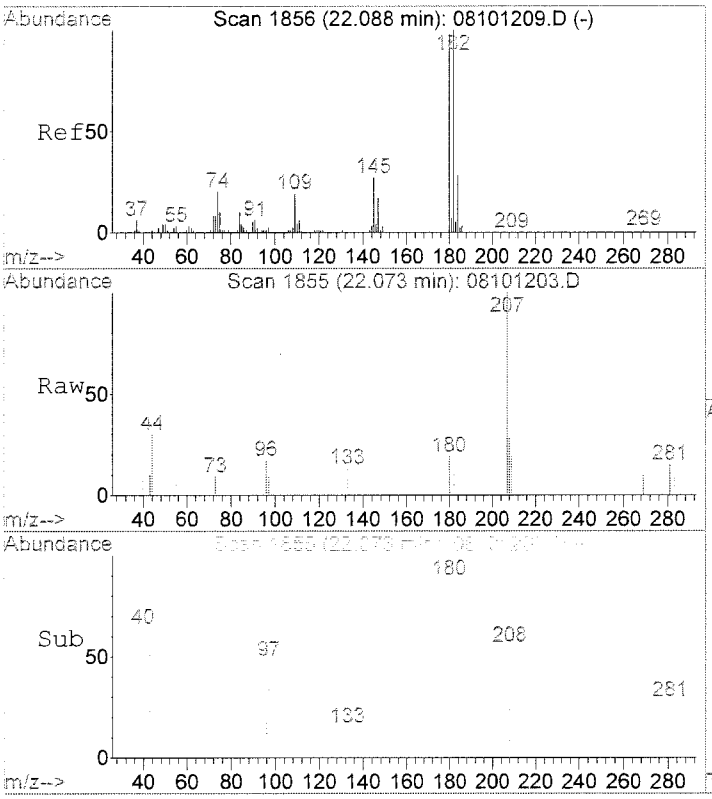


#84
Napthalene
Concen: 0.29 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.4#

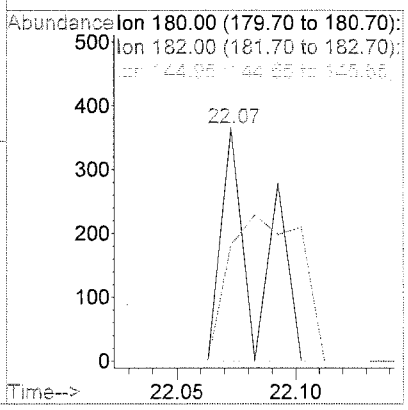




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.07 min Scan# 1855
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 380

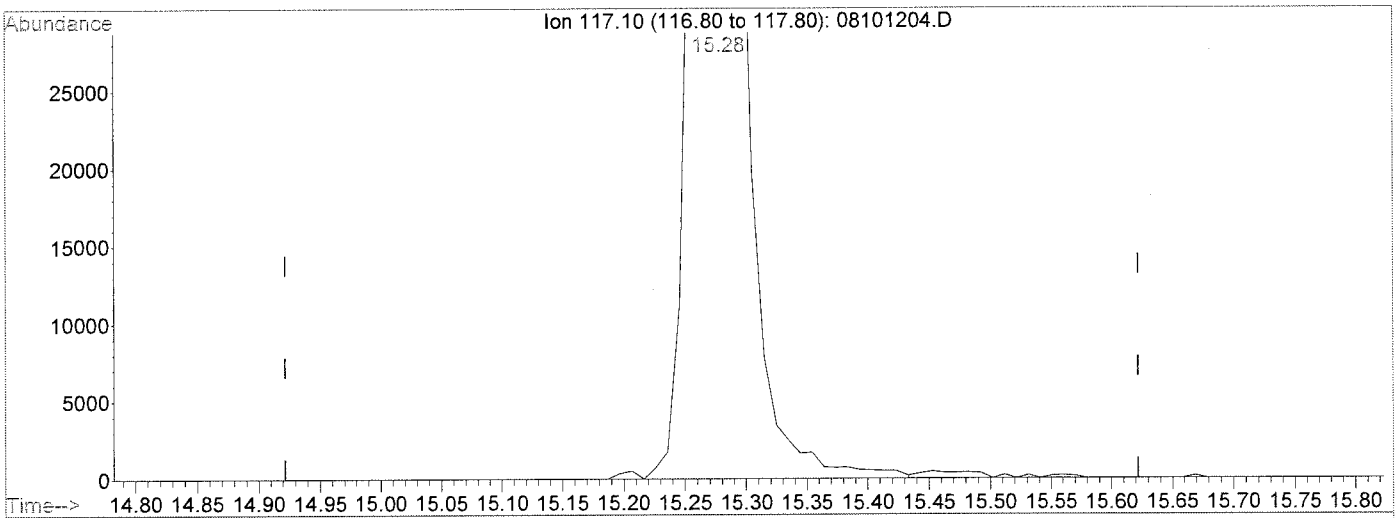
Ion	Ratio	Lower	Upper
180	100		
182	127.1	78.9	118.3#
145	28.2	23.2	34.8

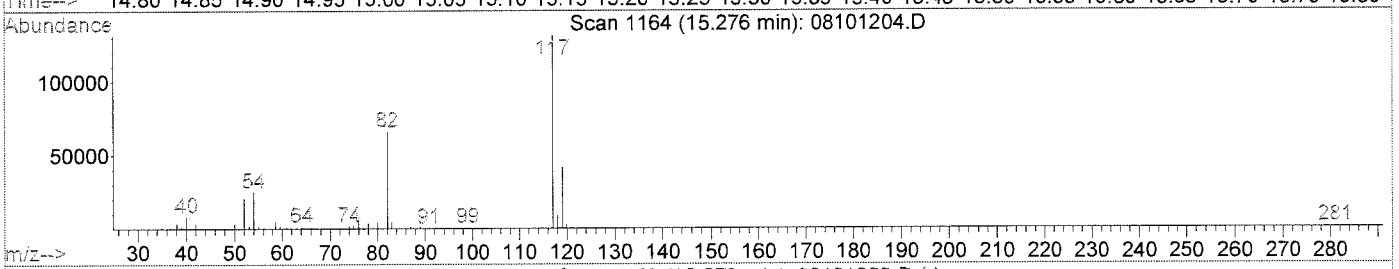


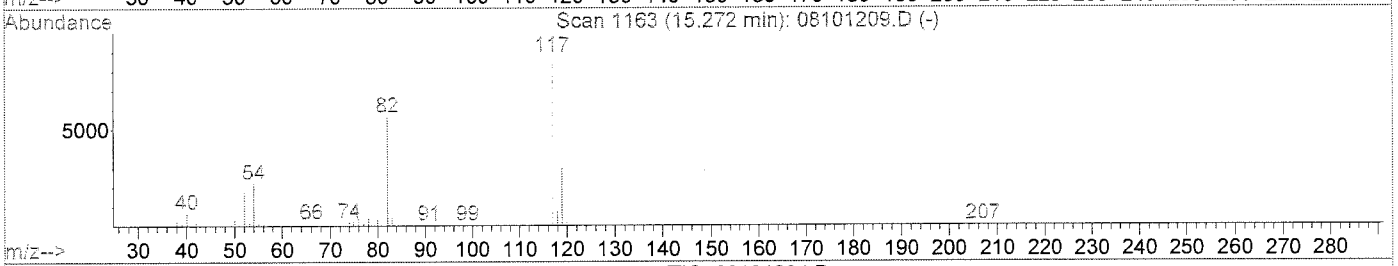
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

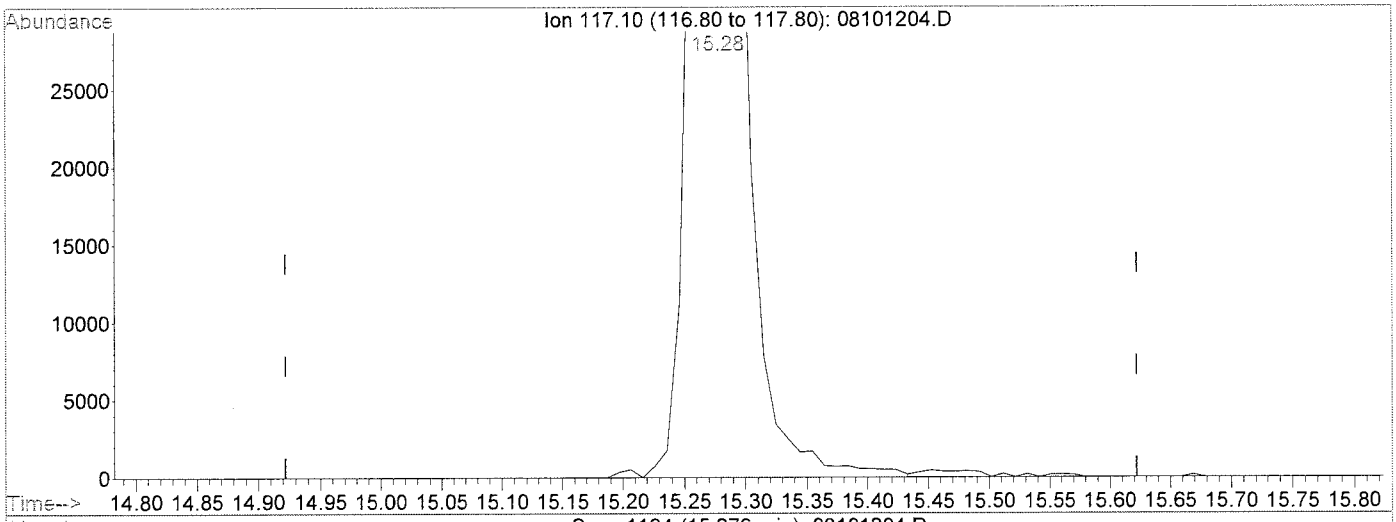
8/13/12

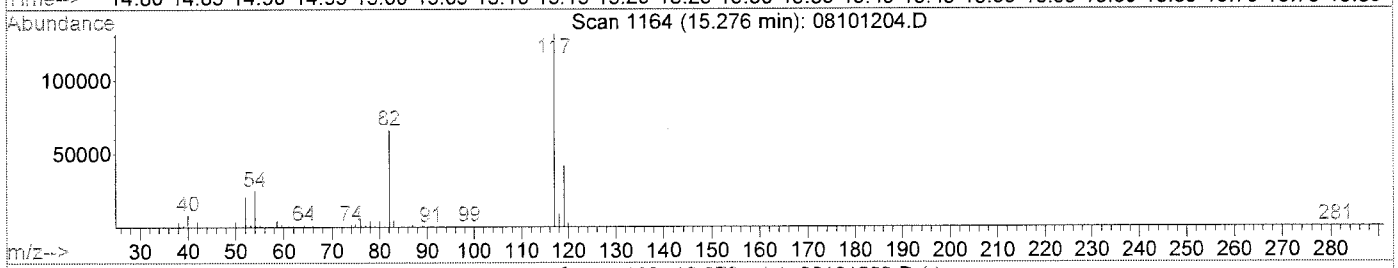
B
CE
MNM 8/13/12

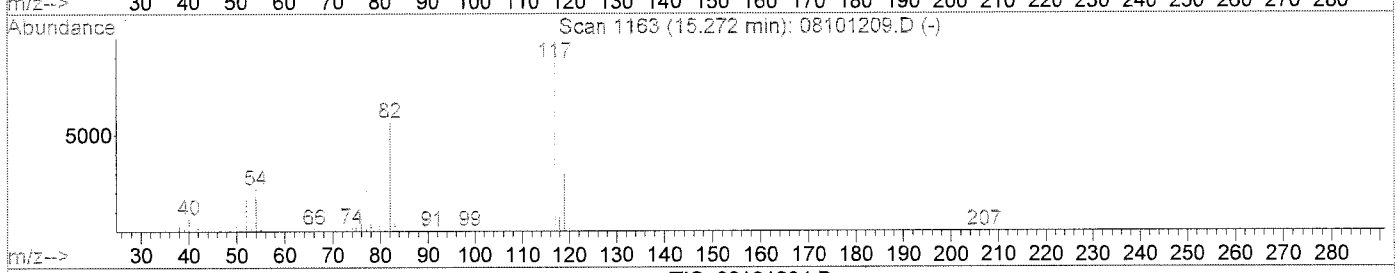
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285234

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285234m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 1.88%	
48) Toluene-d8	13.33	98	8308	0.53 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.12%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.04%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.53 ug/L	99
6) Chloromethane	4.35	50	5533	0.53 ug/L	97
7) Vinyl Chloride	4.63	62	5041	0.53 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.46 ug/L #	88
11) Trichlorofluoromethane	6.11	101	4136	0.49 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.48 ug/L	95
14) 1,1-Dichloroethene	6.81	96	3218	0.55 ug/L	95
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	83
16) Freon 113	7.08	101	3192	0.53 ug/L	97
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	17
18) trans-1,2-Dichloroethene	7.86	96	3858	0.57 ug/L #	80
19) MTBE	8.01	73	4605	0.48 ug/L	98
20) 1,1-Dichloroethane	8.18	63	5100	0.48 ug/L #	94
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.46 ug/L #	59
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.49 ug/L #	90
25) cis-1,2-Dichloroethene	8.91	96	3145	0.51 ug/L	86
26) Bromochloromethane	9.13	128	1212	0.50 ug/L	85
27) Chloroform	9.17	83	4473	0.49 ug/L #	91
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.52 ug/L	98
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.45 ug/L #	93
33) 1,1,1-Trichloroethane	10.14	97	3906	0.51 ug/L	92
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.56 ug/L	95
36) 1,1-Dichloropropene	10.37	75	4256	0.50 ug/L #	83
37) Carbon Tetrachloride	10.60	117	3505	0.53 ug/L #	97
38) Benzene	10.66	78	10648	0.53 ug/L	98
39) Dibromomethane	11.40	93	1079	0.45 ug/L #	89
40) 1,2-Dichloropropane	11.43	63	2436	0.51 ug/L #	79

(#) = qualifier out of range (m) = manual integration

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	2807	0.50 ug/L	97
42)	Bromodichloromethane	11.55	83	2375	0.43 ug/L #	87
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.46 ug/L	90
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d	
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.48 ug/L	95
47)	1,1,2-Trichloroethane	13.17	97	939	0.34 ug/L #	82
49)	Toluene	13.43	92	5962	0.52 ug/L #	97
51)	1,3-Dichloropropane	13.49	76	2084	0.41 ug/L #	86
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.85	129	1416	0.39 ug/L	91
54)	1,2-Dibromoethane	14.18	107	1351	0.44 ug/L	95
55)	Tetrachloroethene	14.41	164	2667	0.53 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.53 ug/L #	1
57)	Chlorobenzene	15.32	112	5746	0.49 ug/L	98
58)	Ethylbenzene	15.58	91	10303	0.50 ug/L	98
59)	m,p-Xylenes	15.84	106	3739	0.48 ug/L	82
60)	Styrene	16.30	104	5068	0.48 ug/L	95
61)	o-Xylene	16.40	106	3948	0.55 ug/L #	94
64)	Bromoform	16.01	173	894	0.43 ug/L	86
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.51 ug/L #	89
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	9688	0.53 ug/L	95
69)	Bromobenzene	17.24	156	2141	0.48 ug/L	99
70)	n-Propylbenzene	17.51	91	12373	0.53 ug/L	91
71)	2-Chlorotoluene	17.65	91	6496	0.52 ug/L	94
72)	4-Chlorotoluene	17.75	91	6322	0.52 ug/L	94
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.52 ug/L	100
74)	tert-Butylbenzene	18.31	119	6960	0.55 ug/L #	95
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.52 ug/L	96
76)	sec-Butylbenzene	18.61	105	11286	0.55 ug/L	92
77)	1,3-Dichlorobenzene	18.72	146	4471	0.55 ug/L	99
78)	1,4-Dichlorobenzene	18.81	146	4553	0.57 ug/L #	92
79)	p-Isopropyltoluene	18.86	119	7691	0.50 ug/L	91
80)	1,2-Dichlorobenzene	19.28	146	3801	0.58 ug/L	96
81)	n-Butylbenzene	19.40	91	7498	0.51 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.58 ug/L #	87
84)	Napthalene	21.83	128	3246	0.57 ug/L #	75
85)	Hexachlorobutadiene	21.89	225	1870	0.40 ug/L #	83
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.49 ug/L #	80

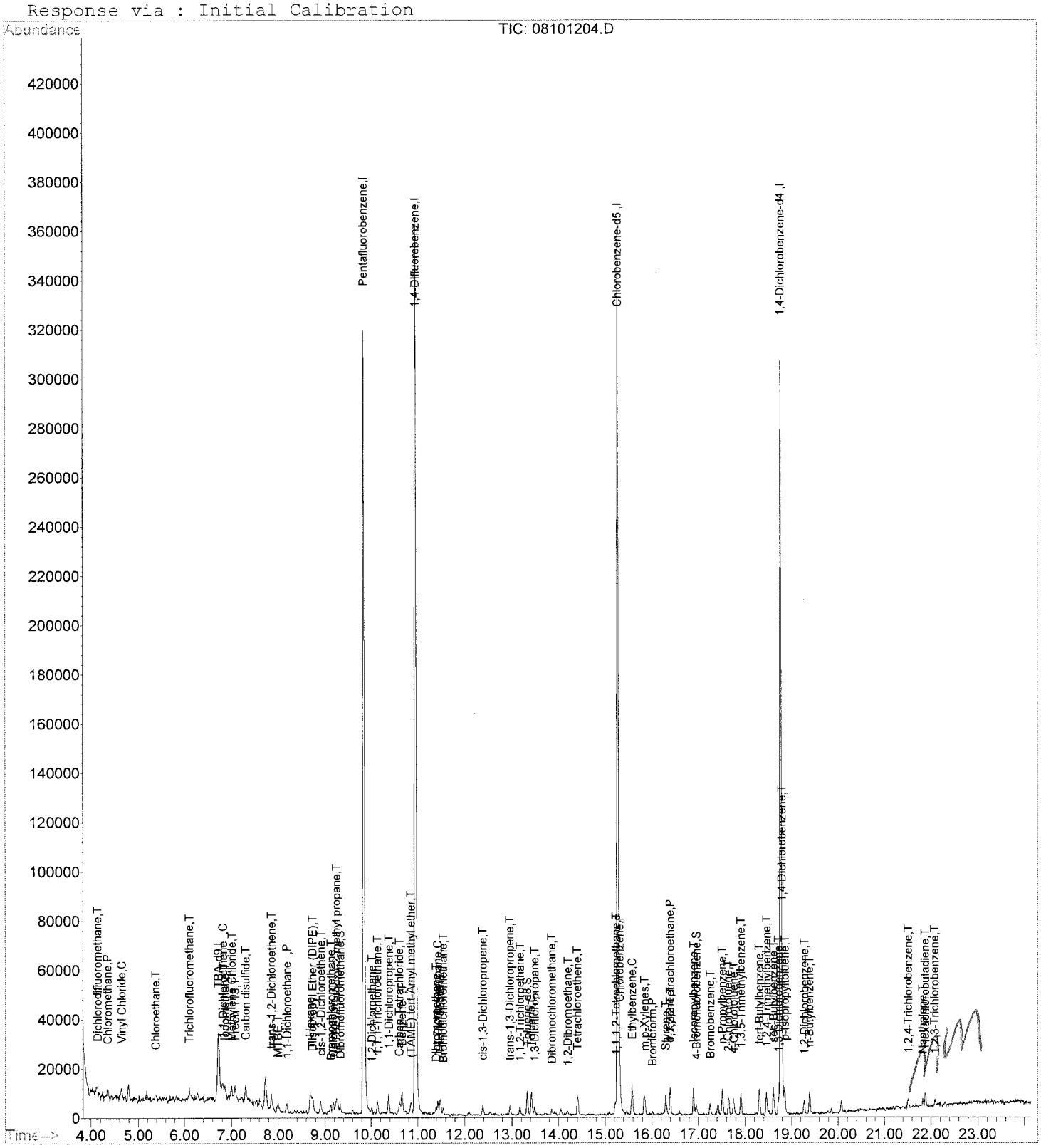
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 081012.M Mon Aug 13 05:15:56 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

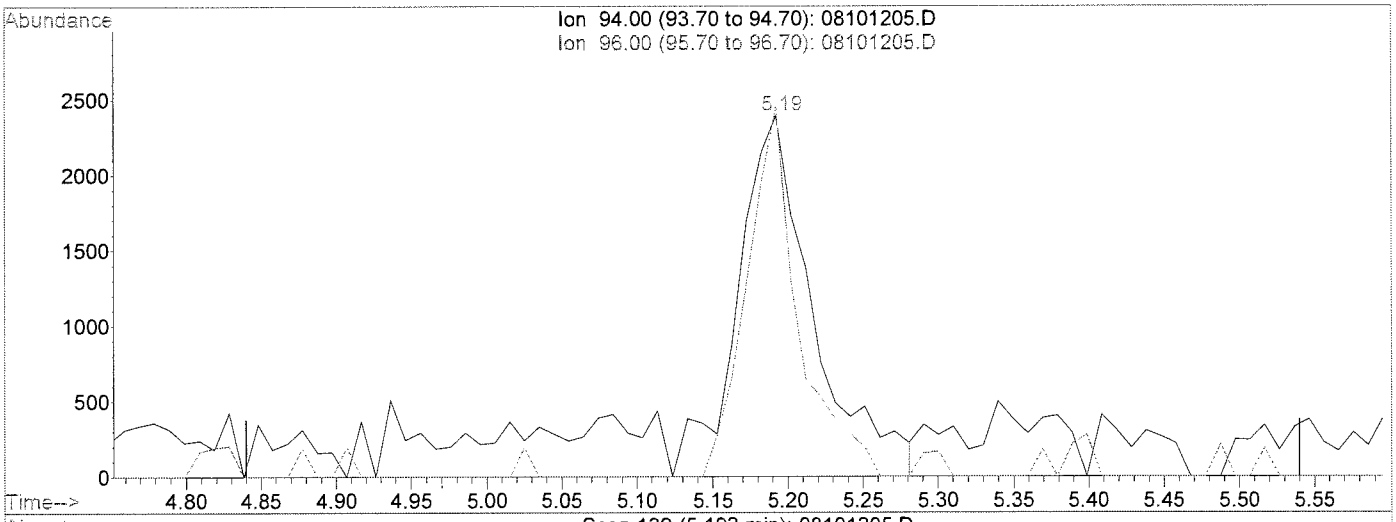
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

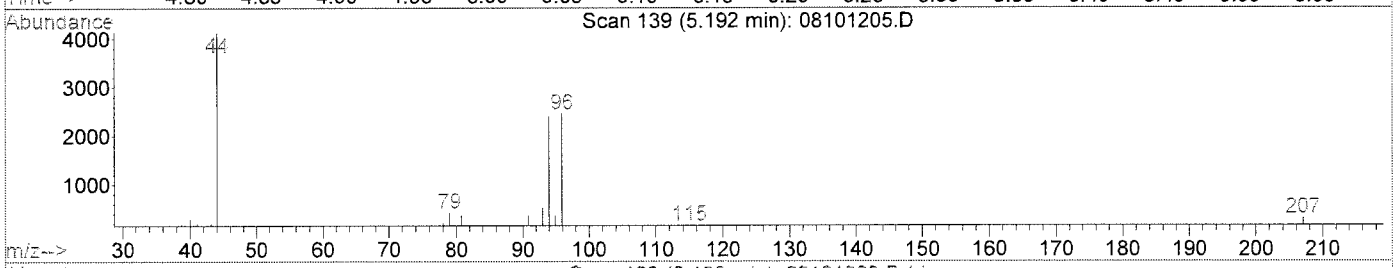


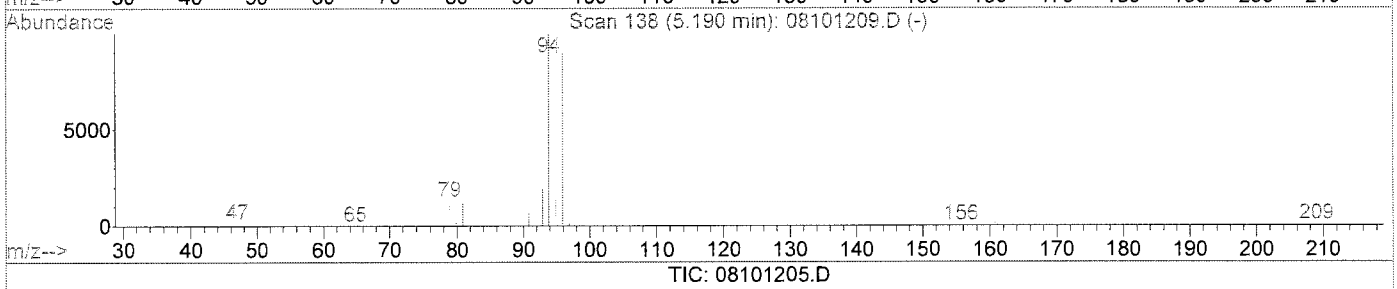
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.46ug/L

response 8343

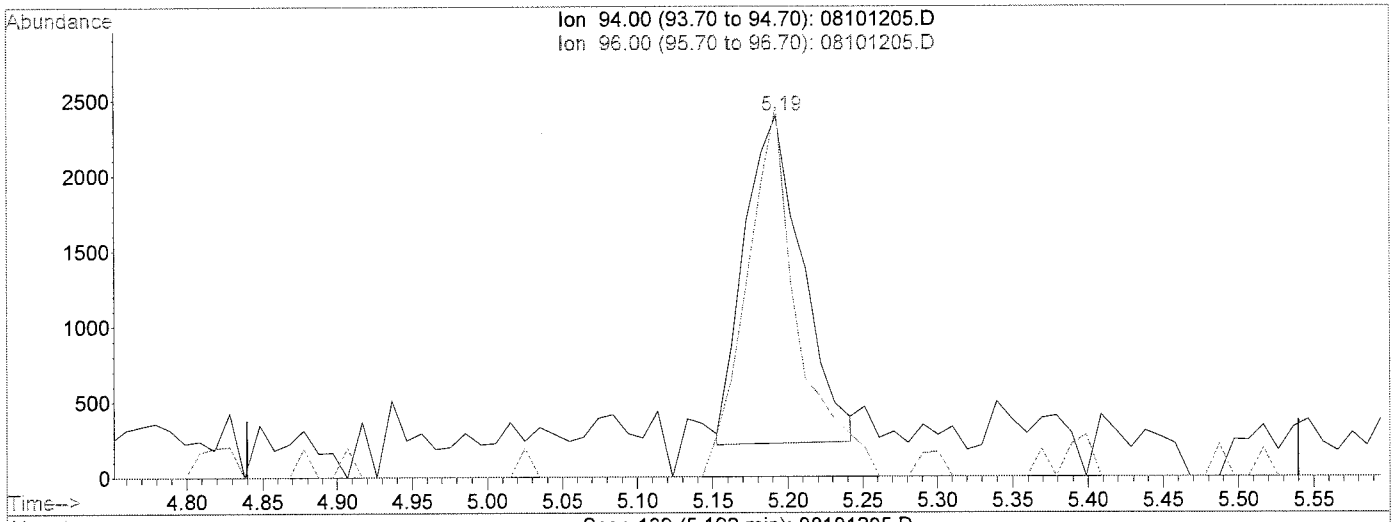
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

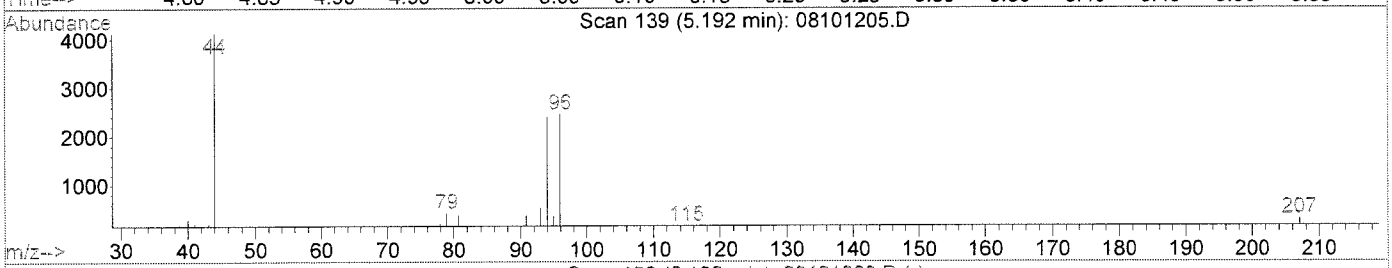
B 8/13/12
BL
MM 8/13/12

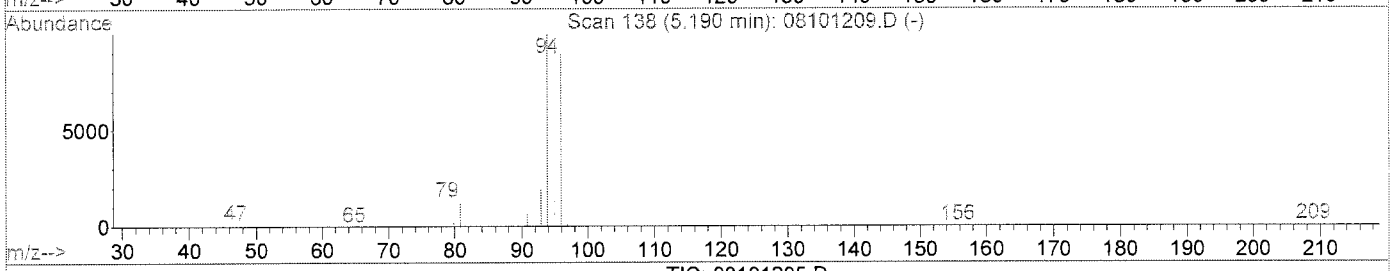
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.02ug/L m

response 5828

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	100.57
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

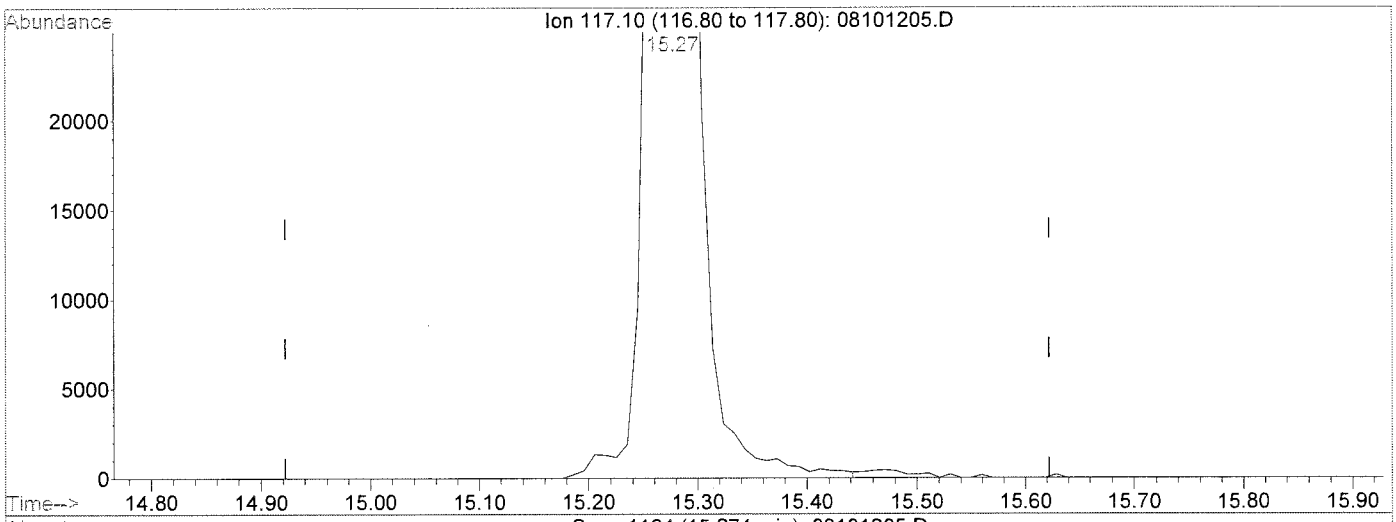
A

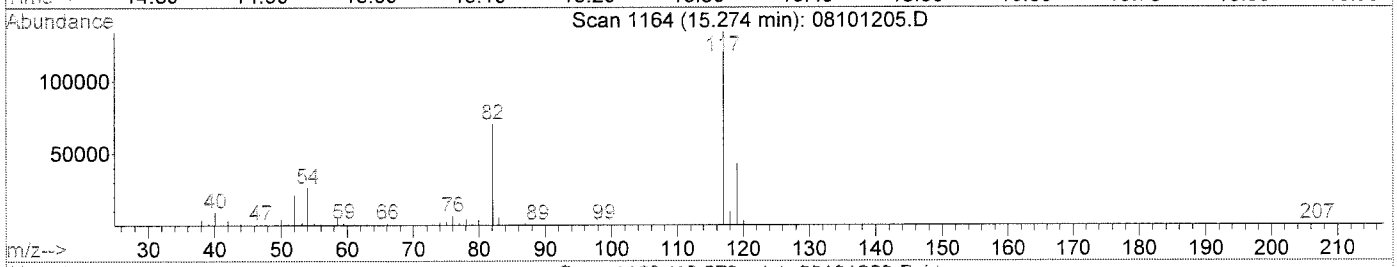
MM 8/13/12

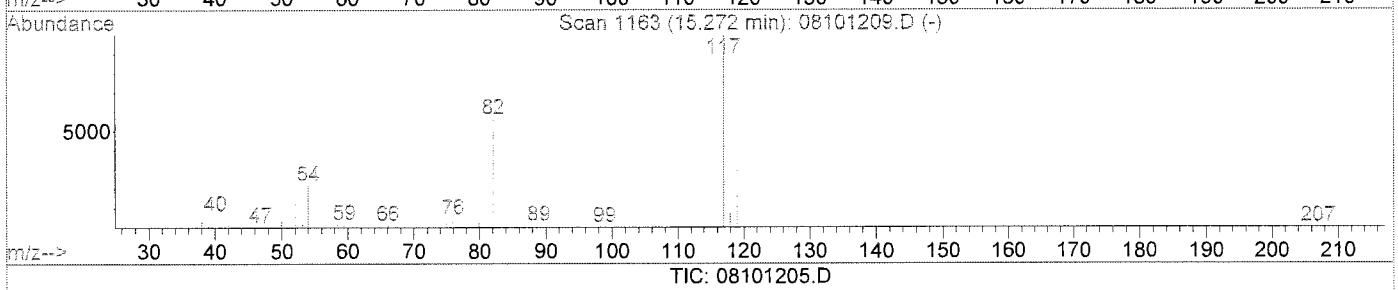
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

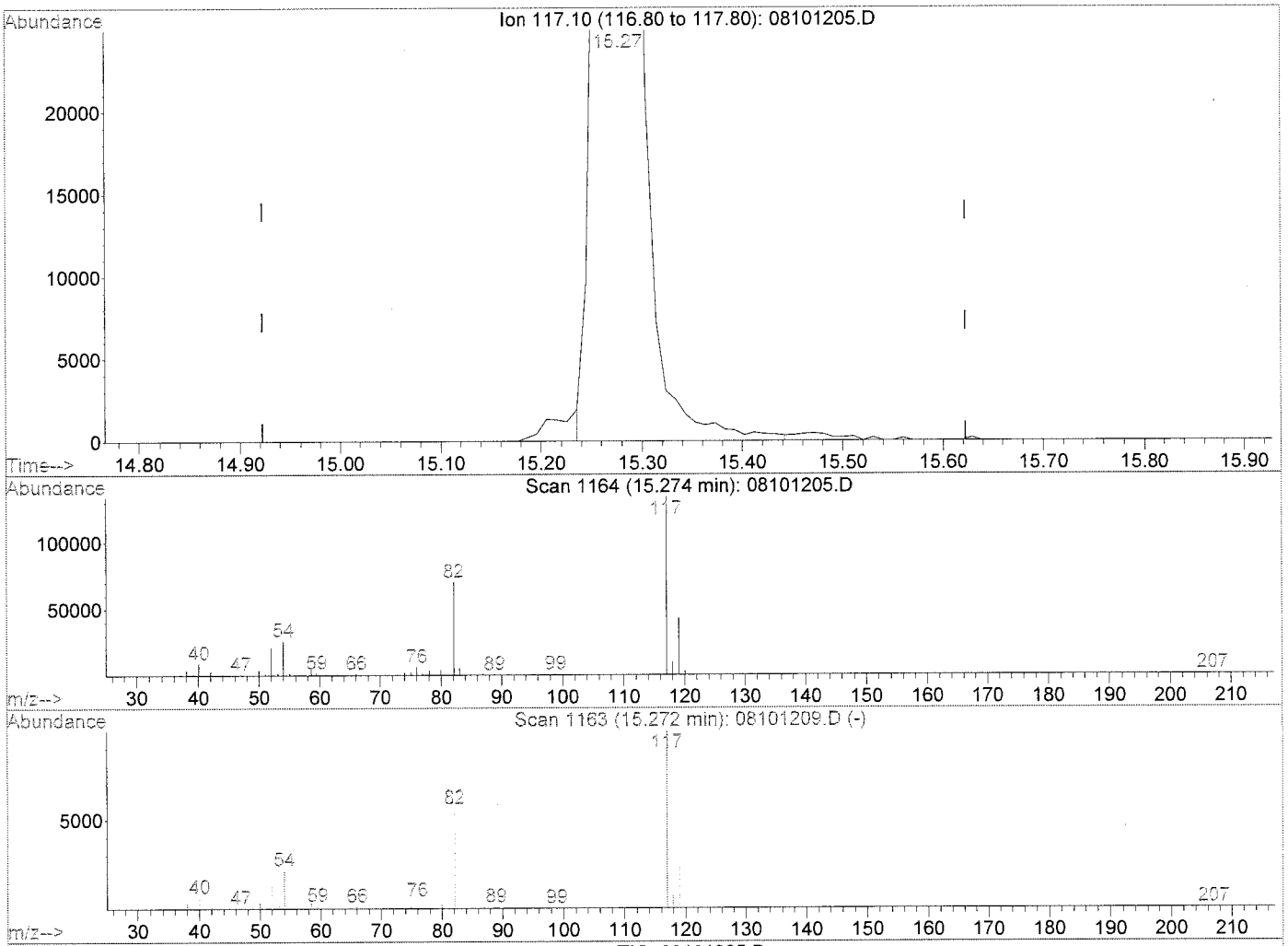
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12
B
CE
MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 288608

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	288608m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	
48) Toluene-d8	13.33	98	15044	0.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.68%	
62) 4-Bromofluorobenzene	16.96	95	4337	0.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.88%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.02 ug/L	99
6) Chloromethane	4.36	50	11345	1.11 ug/L	98
7) Vinyl Chloride	4.63	62	9613	1.03 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	0.96 ug/L #	67
9) Bromomethane	5.19	94	5828m	1.02 ug/L	
10) Chloroethane	5.38	64	4474	0.96 ug/L #	79
11) Trichlorofluoromethane	6.11	101	8147	0.98 ug/L	95
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.06 ug/L	98
14) 1,1-Dichloroethene	6.82	96	6624	1.15 ug/L #	79
15) Methylene Chloride	6.99	84	5669	1.11 ug/L	93
16) Freon 113	7.06	101	5907	0.99 ug/L	96
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	84
18) trans-1,2-Dichloroethene	7.86	96	6803	1.02 ug/L	90
19) MTBE	8.00	73	9909	1.05 ug/L	94
20) 1,1-Dichloroethane	8.18	63	10543	1.02 ug/L	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.05 ug/L	85
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.05 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	6451	1.06 ug/L	98
26) Bromochloromethane	9.12	128	2129	0.88 ug/L	87
27) Chloroform	9.18	83	8439	0.93 ug/L #	84
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.01 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	1.06 ug/L	93
33) 1,1,1-Trichloroethane	10.14	97	6935	0.91 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	0.97 ug/L	95
36) 1,1-Dichloropropene	10.38	75	8845	1.00 ug/L #	91
37) Carbon Tetrachloride	10.61	117	6413	0.93 ug/L	96
38) Benzene	10.66	78	20457	0.97 ug/L	98
39) Dibromomethane	11.39	93	2452	0.99 ug/L	96
40) 1,2-Dichloropropane	11.44	63	5094	1.01 ug/L	95

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	5370	0.91 ug/L	93
42) Bromodichloromethane	11.56	83	5117	0.89 ug/L #	99
43) 2-Chlorovinylethylether	0.00	63	0	N.D. d	
44) cis-1,3-Dichloropropene	12.39	75	6051	0.90 ug/L	95
45) 4-Methyl-2-Pentanone (MIBK	12.54	43	3380	1.12 ug/L	96
46) trans-1,3-Dichloropropene	12.96	75	4943	0.96 ug/L	97
47) 1,1,2-Trichloroethane	13.17	97	2959	1.01 ug/L	94
49) Toluene	13.42	92	10896	0.91 ug/L	97
51) 1,3-Dichloropropane	13.49	76	5303	1.03 ug/L	89
52) 2-Hexanone	0.00	43	0	N.D. d	
53) Dibromochloromethane	13.86	129	3417	0.92 ug/L	93
54) 1,2-Dibromoethane	14.18	107	2908	0.93 ug/L	98
55) Tetrachloroethene	14.41	164	4967	0.98 ug/L	93
56) 1,1,1,2-Tetrachloroethane	15.22	131	3789	0.93 ug/L #	1
57) Chlorobenzene	15.32	112	10784	0.91 ug/L #	80
58) Ethylbenzene	15.58	91	20863	1.01 ug/L	93
59) m,p-Xylenes	15.84	106	7380	0.93 ug/L	91
60) Styrene	16.30	104	9553	0.90 ug/L	97
61) o-Xylene	16.40	106	7004	0.96 ug/L	98
64) Bromoform	16.02	173	1913	0.89 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	3250	0.96 ug/L	96
66) 1,2,3-Trichloropropane	16.58	110	765	0.94 ug/L #	61
67) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68) Isopropylbenzene	16.90	105	17839	0.95 ug/L	98
69) Bromobenzene	17.25	156	4047	0.89 ug/L	91
70) n-Propylbenzene	17.51	91	22751	0.96 ug/L	94
71) 2-Chlorotoluene	17.65	91	12533	0.97 ug/L	90
72) 4-Chlorotoluene	17.75	91	12326	0.98 ug/L	93
73) 1,3,5-Trimethylbenzene	17.91	105	13867	0.95 ug/L	99
74) tert-Butylbenzene	18.30	119	12547	0.96 ug/L	95
75) 1,2,4-Trimethylbenzene	18.46	105	13204	0.96 ug/L	96
76) sec-Butylbenzene	18.61	105	19700	0.93 ug/L	96
77) 1,3-Dichlorobenzene	18.72	146	7952	0.96 ug/L	98
78) 1,4-Dichlorobenzene	18.81	146	7762	0.95 ug/L #	94
79) p-Isopropyltoluene	18.85	119	15724	0.99 ug/L	98
80) 1,2-Dichlorobenzene	19.28	146	6825	1.01 ug/L	92
81) n-Butylbenzene	19.40	91	14669	0.97 ug/L	100
82) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83) 1,2,4-Trichlorobenzene	21.51	180	3123	0.86 ug/L	87
84) Napthalene	21.83	128	6316	1.09 ug/L	94
85) Hexachlorobutadiene	21.88	225	2901	0.78 ug/L	96
86) 1,2,3-Trichlorobenzene	22.09	180	2981	0.84 ug/L	90

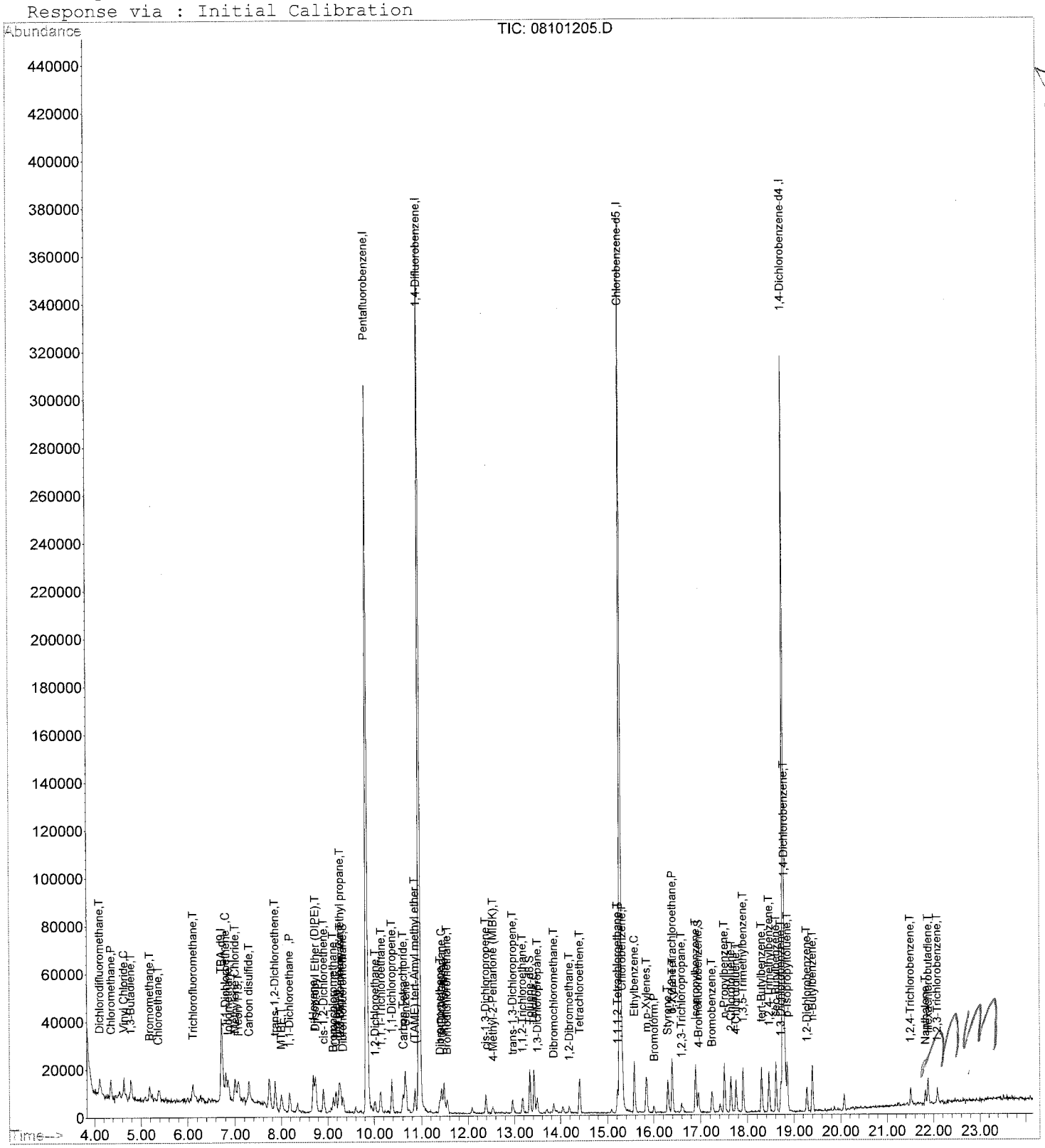
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

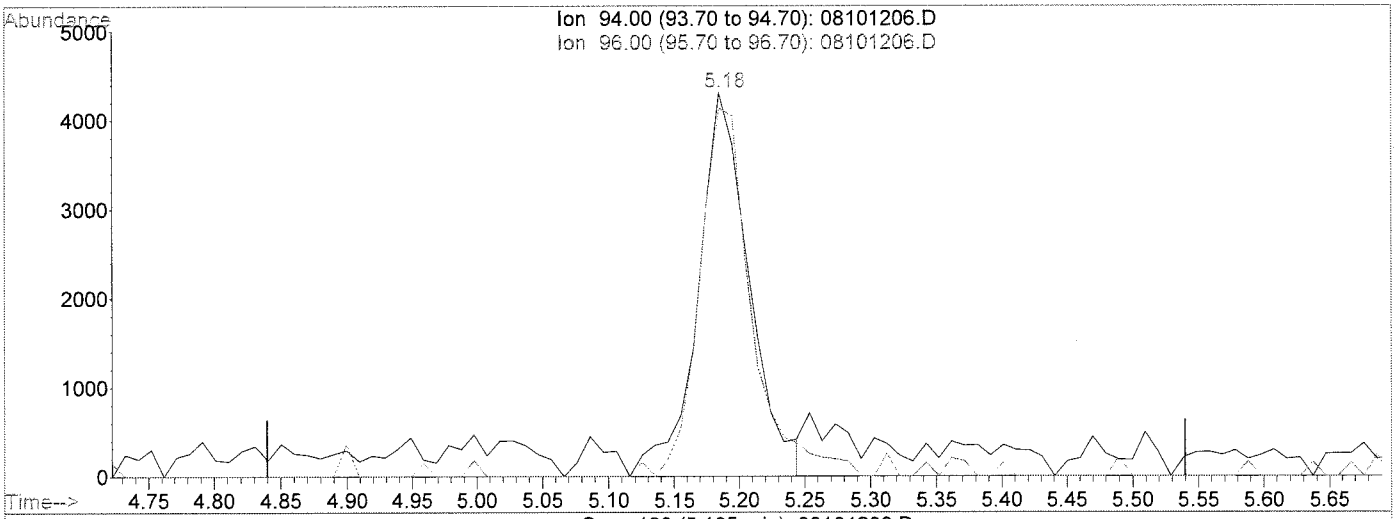
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

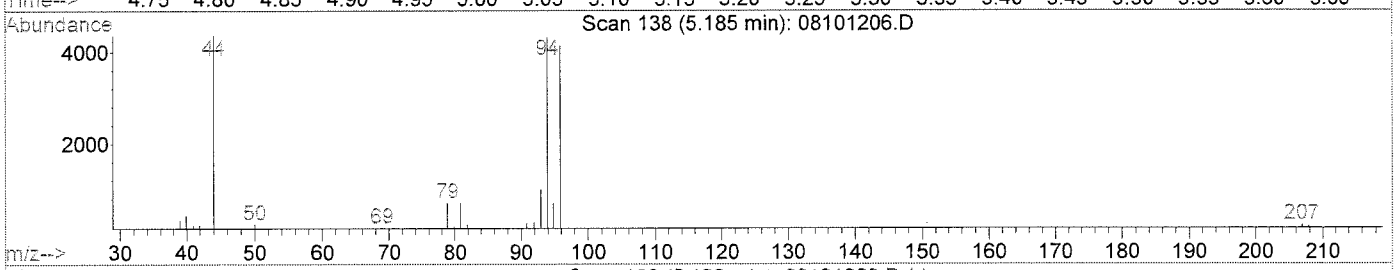


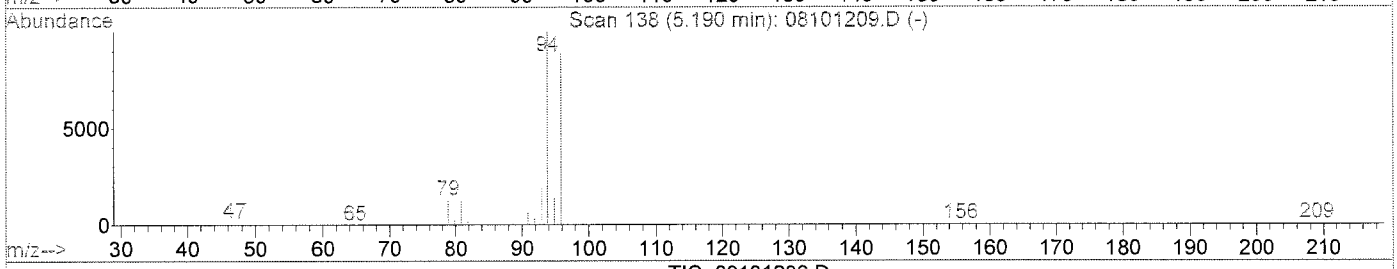
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.07ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

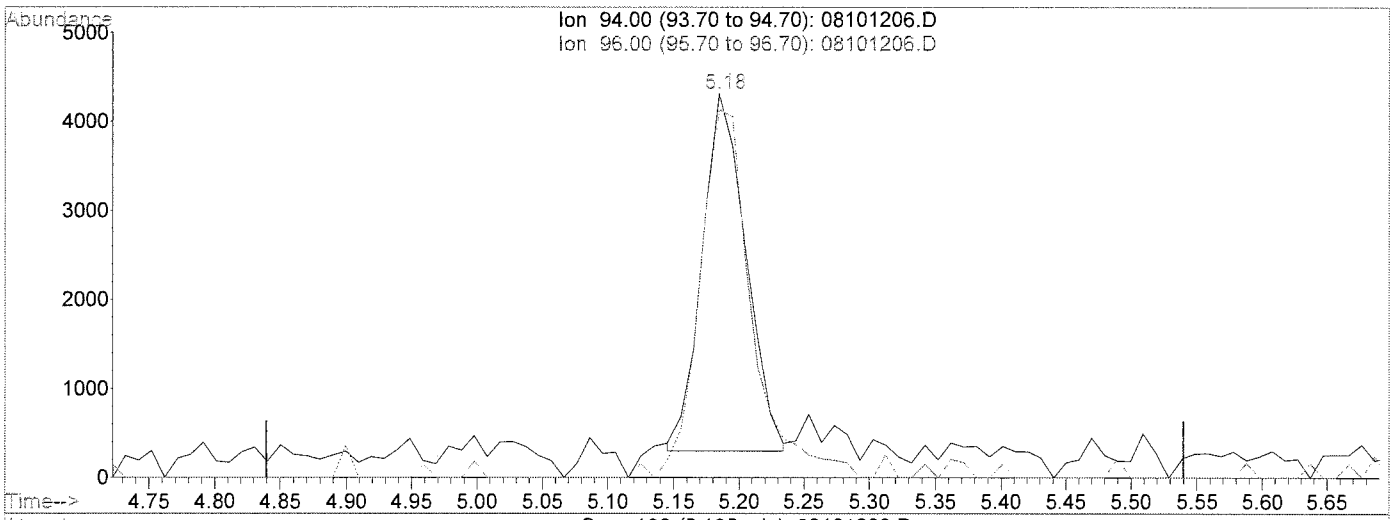
BL

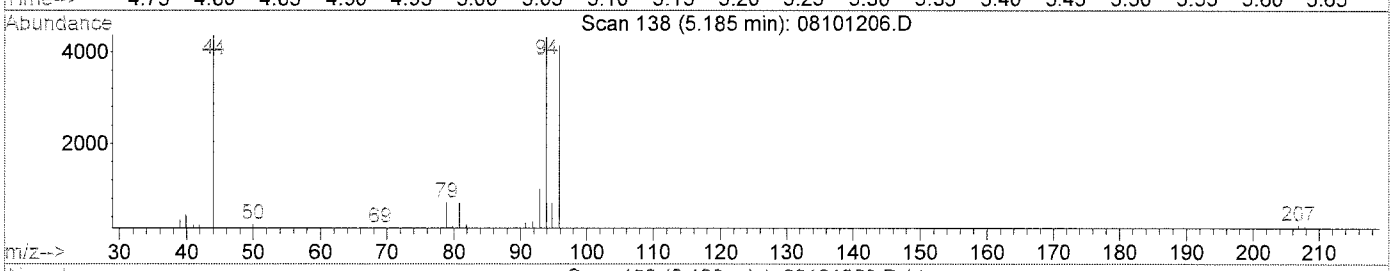
MM 8/13/12

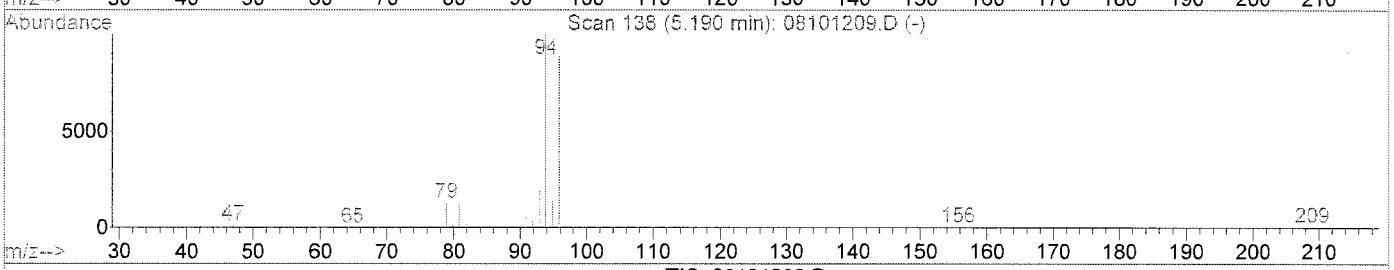
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.65ug/L m

response 9335

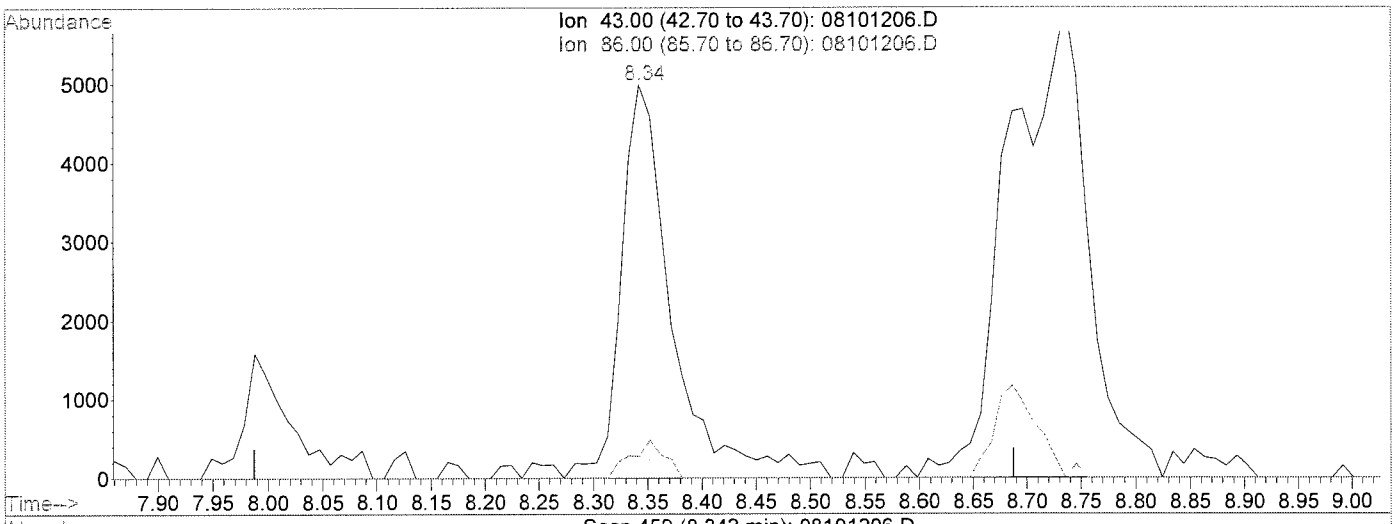
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	124.10#
0.00	0.00	0.00
0.00	0.00	0.00

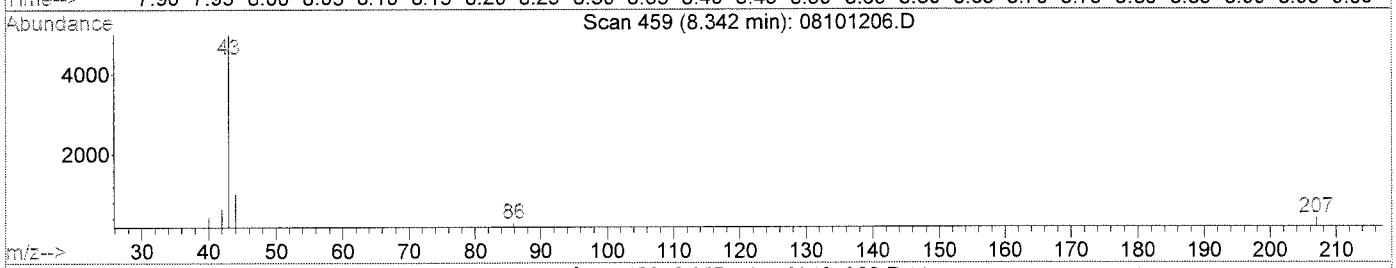
MM 8/13/12

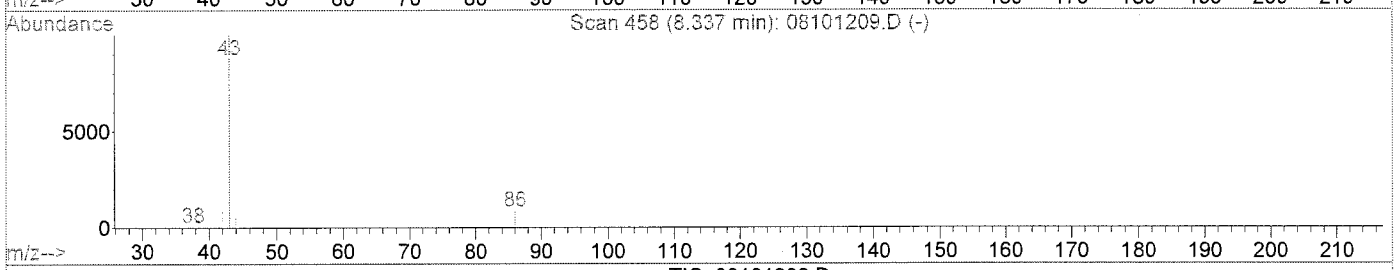
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

Ion	Exp%	Act%
43.00	100	100
86.00	7.90	6.41
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

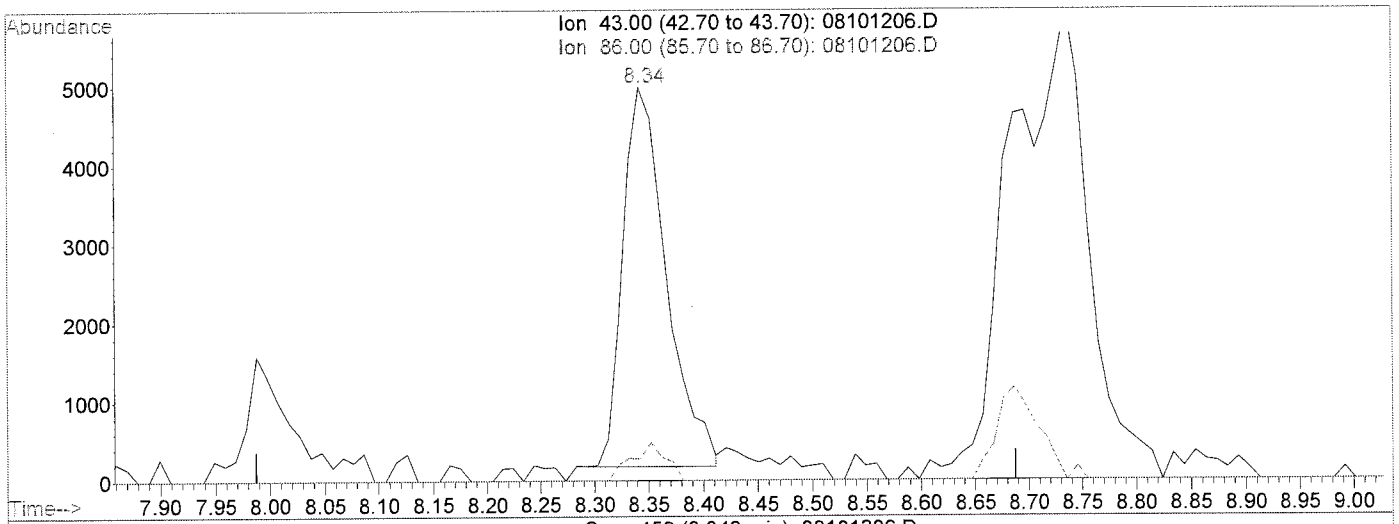
BL

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



✓ 8/13/12

(21) Vinyl Acetate (T)

8.34min 1.83ug/L m

response 13334

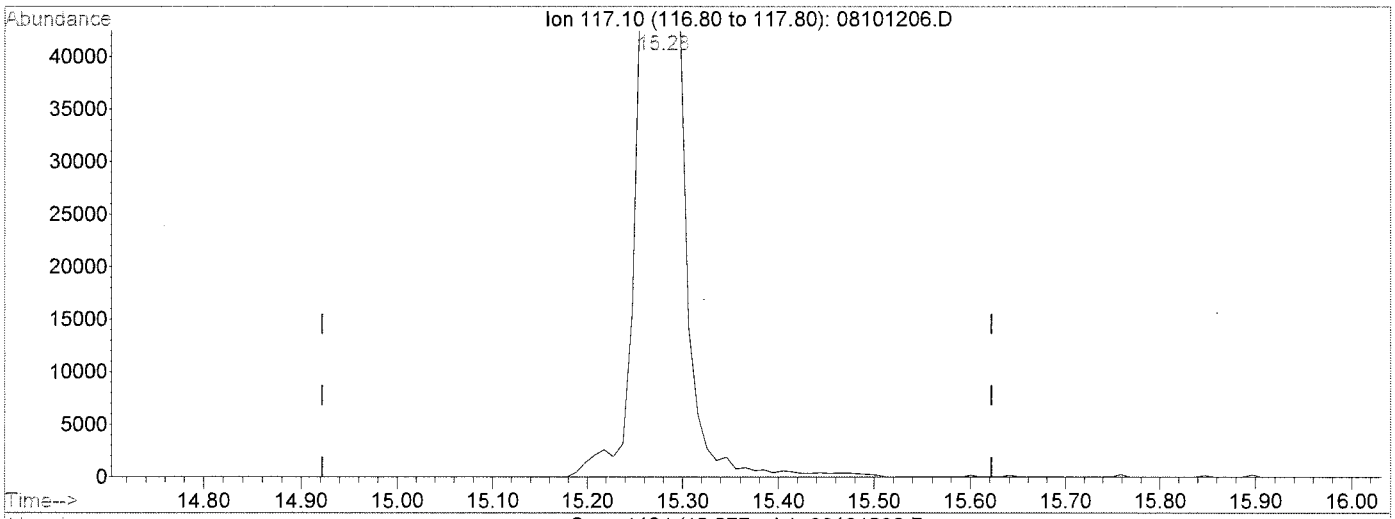
Ion	Exp%	Act%
43.00	100	100
86.00	7.90	7.85
0.00	0.00	0.00
0.00	0.00	0.00

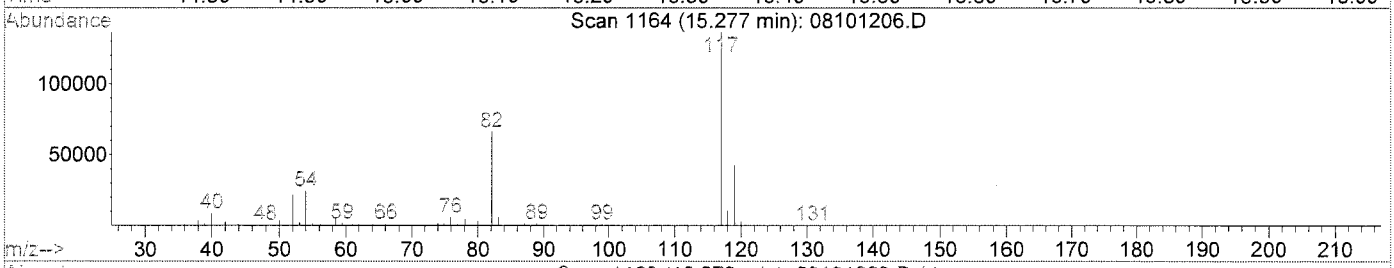
MM 8/13/12

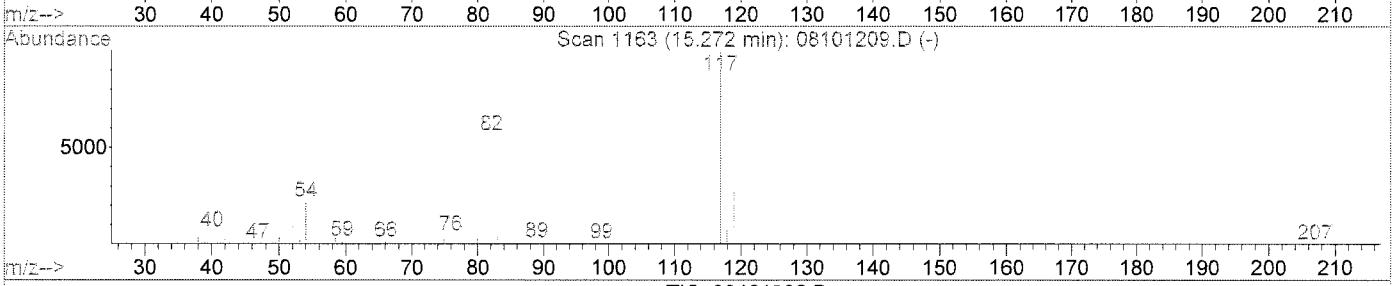
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

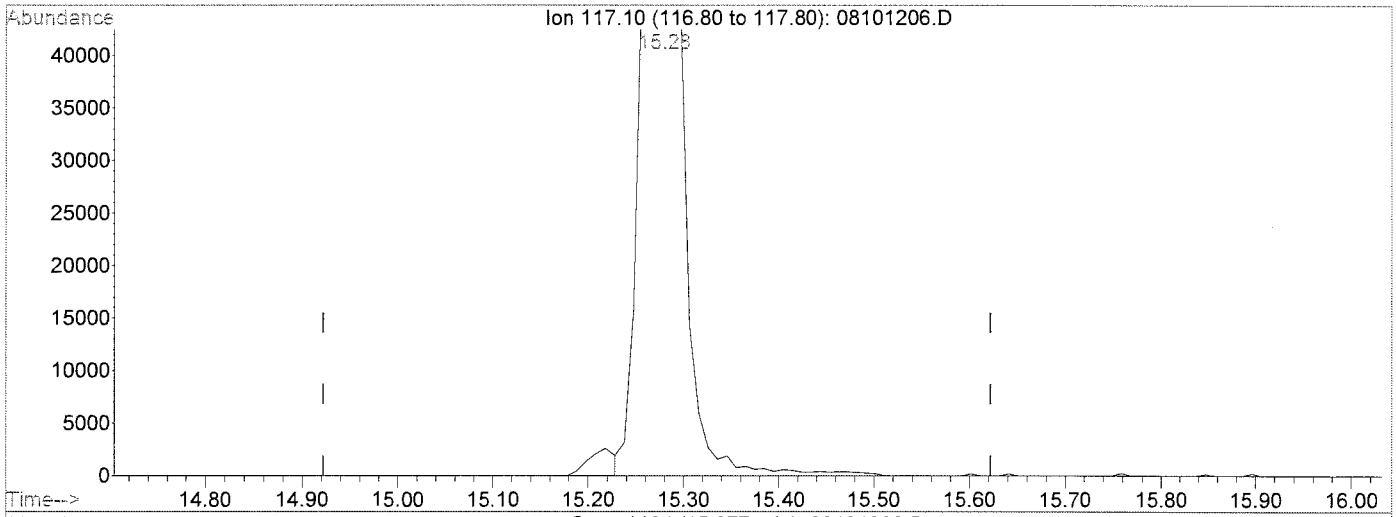
8/13/12

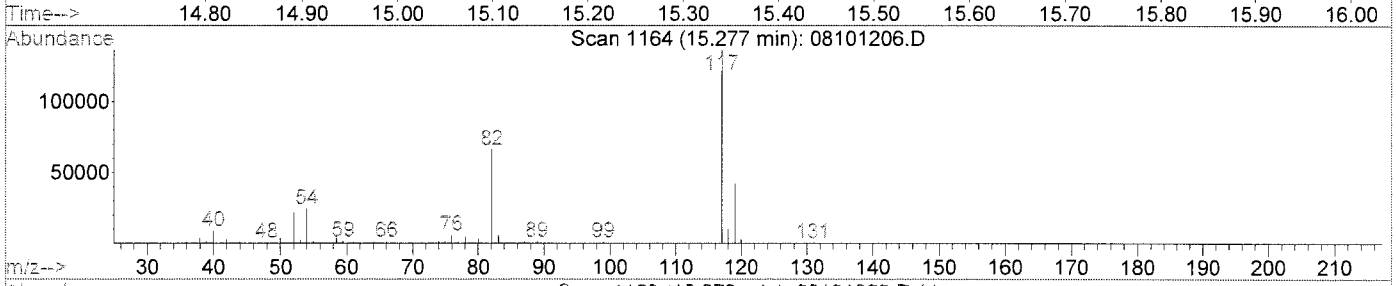
B
CE
MM 8/13/12

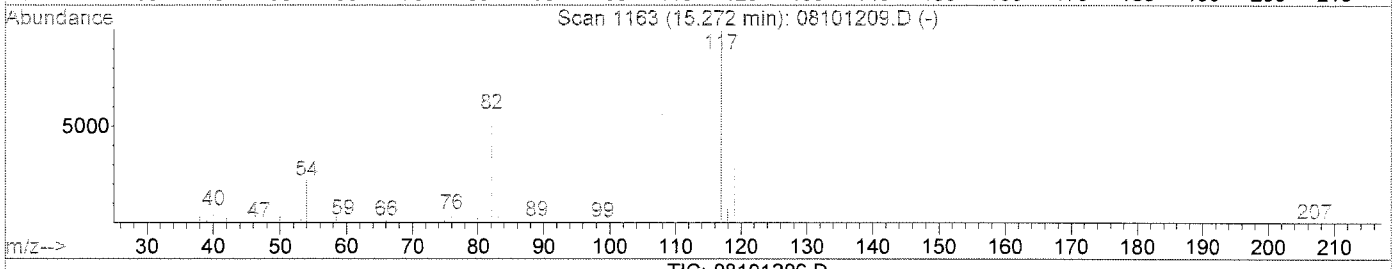
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293339

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

✓ 8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293339m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.84%	
48) Toluene-d8	13.33	98	34659	2.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.80%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.36%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.71 ug/L	100
5) Dichlorodifluoromethane	4.11	85	19360	1.86 ug/L	88
6) Chloromethane	4.35	50	19442	1.92 ug/L	98
7) Vinyl Chloride	4.62	62	18295	1.97 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	1.90 ug/L	89
9) Bromomethane	5.18	94	9335m	1.65 ug/L	
10) Chloroethane	5.39	64	9047	1.97 ug/L #	84
11) Trichlorofluoromethane	6.12	101	15106	1.84 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.02 ug/L	98
14) 1,1-Dichloroethene	6.81	96	11692	2.05 ug/L	94
15) Methylene Chloride	6.99	84	10706	2.11 ug/L	93
16) Freon 113	7.06	101	11837	2.00 ug/L	97
17) Carbon disulfide	7.30	76	34510	1.86 ug/L #	46
18) trans-1,2-Dichloroethene	7.86	96	12894	1.95 ug/L	97
19) MTBE	8.00	73	18479	1.98 ug/L	94
20) 1,1-Dichloroethane	8.18	63	21203	2.07 ug/L	97
21) Vinyl Acetate	8.34	43	13334m	1.83 ug/L	
22) n-Hexane	8.69	86	3282	2.02 ug/L	83
23) 2-Butanone (MEK)	8.74	72	770	1.89 ug/L #	21
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.08 ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	11373	1.89 ug/L	96
26) Bromochloromethane	9.12	128	4731	1.98 ug/L	95
27) Chloroform	9.17	83	18252	2.03 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.11 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.07 ug/L	98
31) Tetrahydrofuran	9.60	72	942	2.54 ug/L #	77
32) 1,2-Dichloroethane	10.01	62	9458	2.18 ug/L	93
33) 1,1,1-Trichloroethane	10.13	97	14552	1.93 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	19881	1.97 ug/L #	95
36) 1,1-Dichloropropene	10.37	75	16300	1.91 ug/L	94
37) Carbon Tetrachloride	10.60	117	11980	1.79 ug/L #	93
38) Benzene	10.66	78	39625	1.95 ug/L	97
39) Dibromomethane	11.39	93	4623	1.92 ug/L	96
40) 1,2-Dichloropropane	11.44	63	9870	2.04 ug/L	95

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:47 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	11947	2.09 ug/L	91
42) Bromodichloromethane	11.55	83	10648	1.91 ug/L #	94
43) 2-Chlorovinylethylether	12.09	63	3450	1.88 ug/L #	91
44) cis-1,3-Dichloropropene	12.38	75	12256	1.88 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	5965	2.04 ug/L	93
46) trans-1,3-Dichloropropene	12.96	75	8864	1.79 ug/L	98
47) 1,1,2-Trichloroethane	13.17	97	5725	2.03 ug/L	99
49) Toluene	13.42	92	23415	2.02 ug/L	98
51) 1,3-Dichloropropane	13.49	76	9548	1.83 ug/L	100
52) 2-Hexanone	13.69	43	3757	1.73 ug/L #	86
53) Dibromochloromethane	13.85	129	6760	1.79 ug/L	96
54) 1,2-Dibromoethane	14.18	107	6483	2.05 ug/L	93
55) Tetrachloroethene	14.41	164	9734	1.88 ug/L	95
56) 1,1,1,2-Tetrachloroethane	15.22	131	7728	1.87 ug/L	94
57) Chlorobenzene	15.33	112	23737	1.97 ug/L	91
58) Ethylbenzene	15.58	91	37962	1.80 ug/L	98
59) m,p-Xylenes	15.85	106	14006	1.75 ug/L	91
60) Styrene	16.30	104	19695	1.83 ug/L	98
61) o-Xylene	16.40	106	12771	1.72 ug/L	92
64) Bromoform	16.01	173	3623	1.73 ug/L	93
65) 1,1,2,2-Tetrachloroethane	16.40	83	6436	1.97 ug/L #	97
66) 1,2,3-Trichloropropane	16.59	110	1480	1.88 ug/L	93
67) trans-1,4-Dichloro-2-buten	16.61	53	1030	2.25 ug/L #	88
68) Isopropylbenzene	16.90	105	35158	1.94 ug/L	99
69) Bromobenzene	17.24	156	8795	1.99 ug/L	98
70) n-Propylbenzene	17.51	91	42873	1.86 ug/L	99
71) 2-Chlorotoluene	17.65	91	25735	2.06 ug/L	97
72) 4-Chlorotoluene	17.76	91	23403	1.92 ug/L	98
73) 1,3,5-Trimethylbenzene	17.91	105	28001	1.98 ug/L	97
74) tert-Butylbenzene	18.31	119	24990	1.97 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	26887	2.01 ug/L	95
76) sec-Butylbenzene	18.61	105	41333	2.02 ug/L	98
77) 1,3-Dichlorobenzene	18.72	146	15215	1.89 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	15598	1.97 ug/L	96
79) p-Isopropyltoluene	18.86	119	30026	1.96 ug/L	99
80) 1,2-Dichlorobenzene	19.27	146	12959	1.98 ug/L	97
81) n-Butylbenzene	19.39	91	28530	1.94 ug/L	95
82) 1,2-Dibromo-3-chloropropan	19.86	75	677	2.15 ug/L	91
83) 1,2,4-Trichlorobenzene	21.50	180	7014	1.99 ug/L	93
84) Napthalene	21.83	128	10482	1.86 ug/L	98
85) Hexachlorobutadiene	21.89	225	5525	1.87 ug/L	97
86) 1,2,3-Trichlorobenzene	22.07	180	5851	1.84 ug/L	98

7

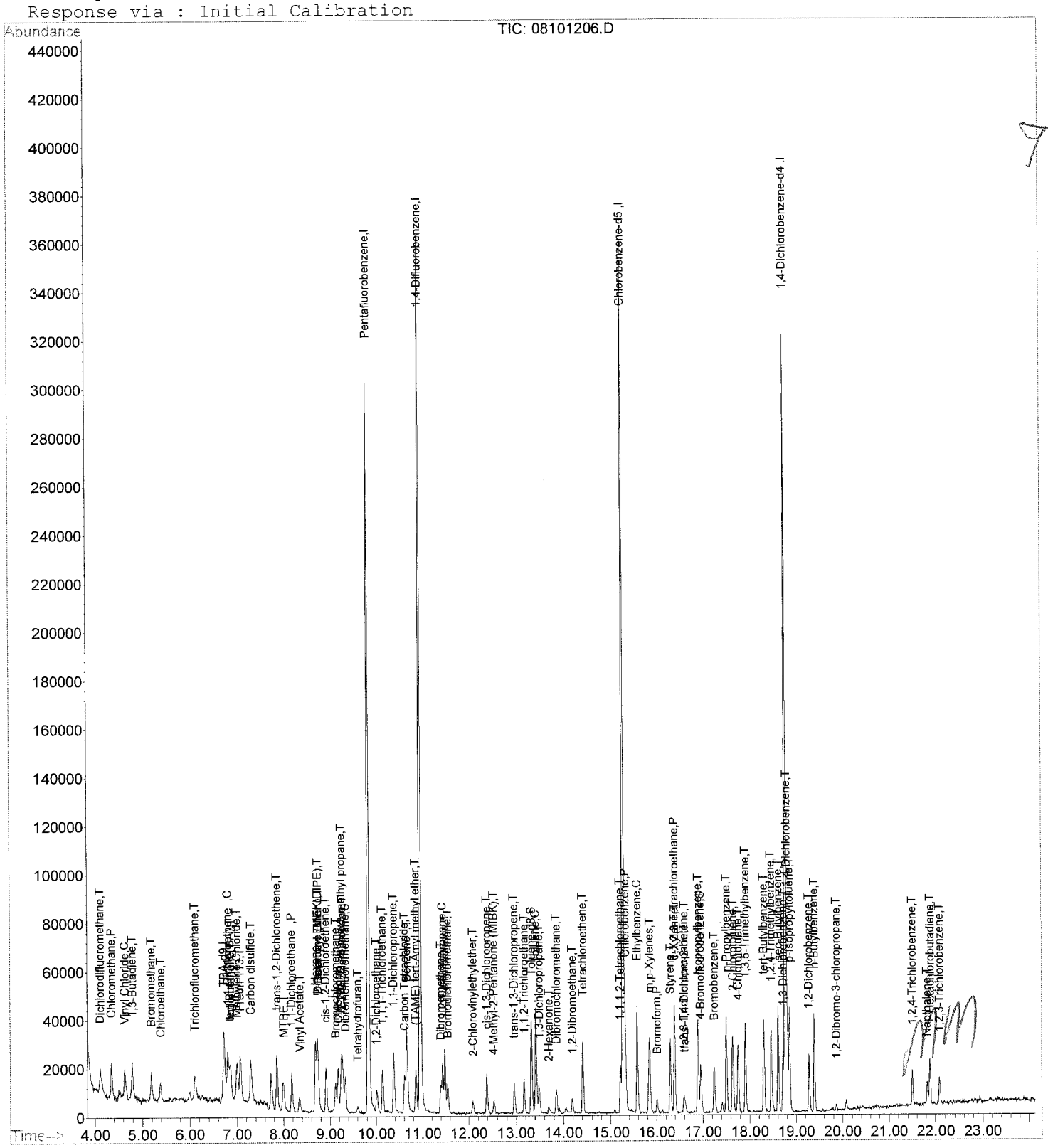
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:48 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

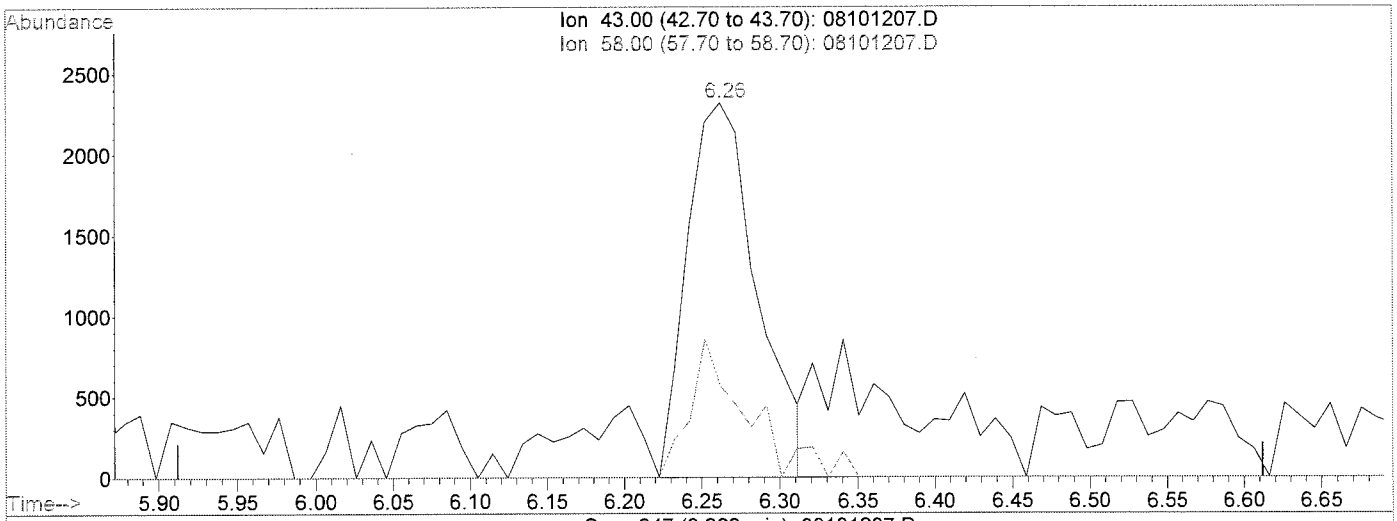
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

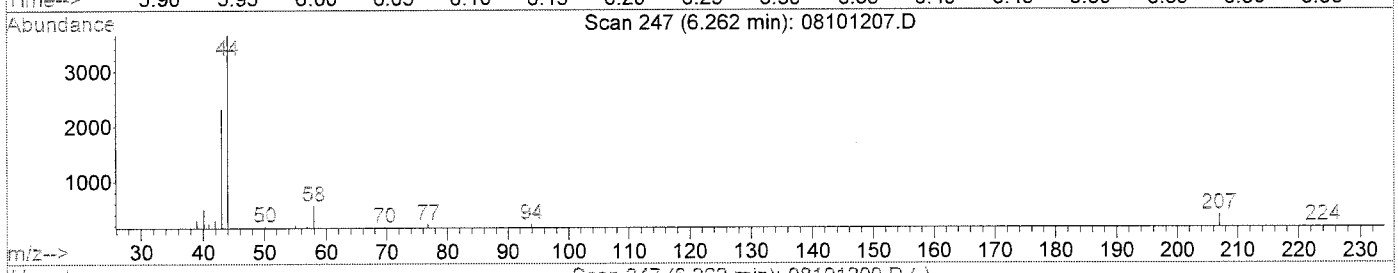


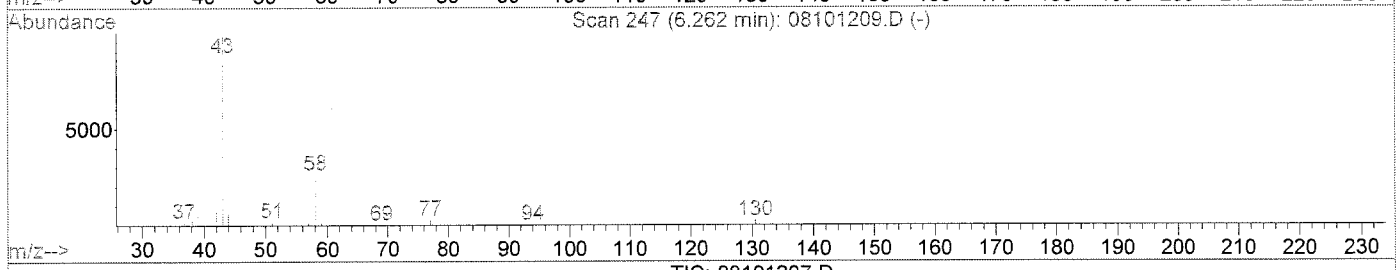
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.60ug/L

response 7175

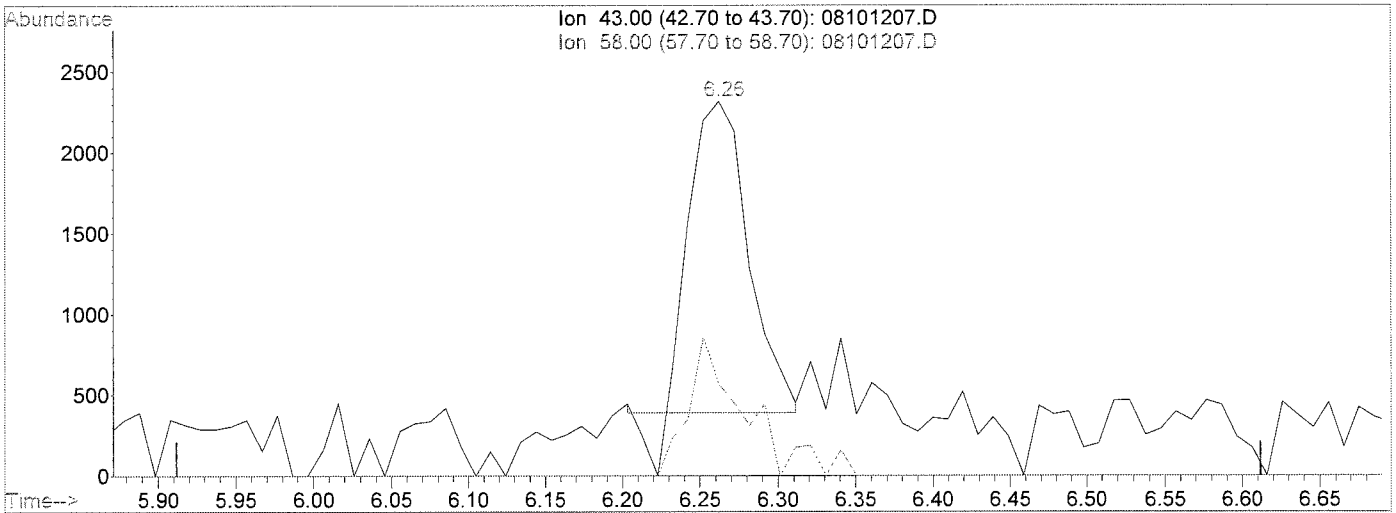
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

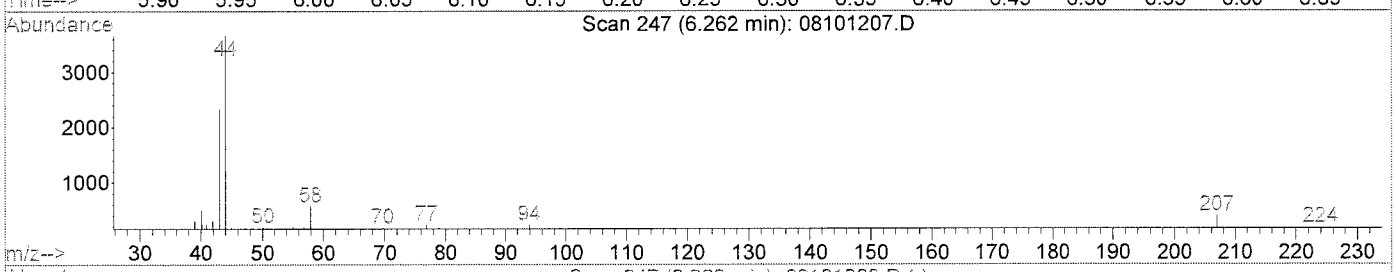
8/13/12
BL
MM 8/13/12

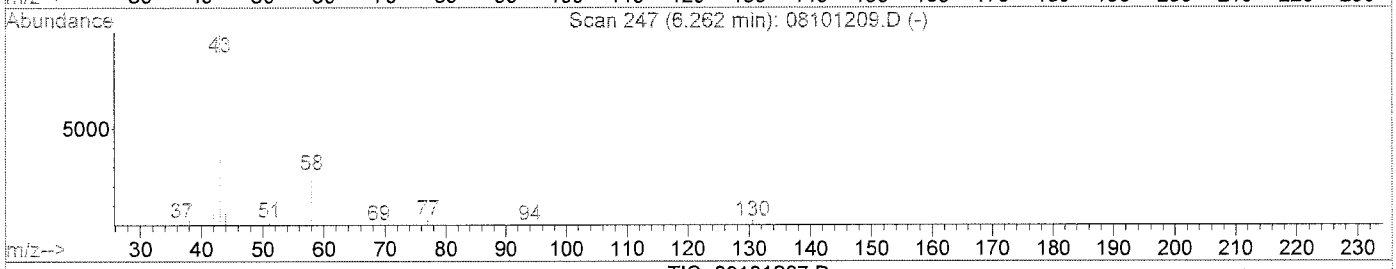
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

8/13/12

(12) Acetone (T)

6.26min 4.41ug/L m

response 4795

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	41.73#
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	4.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.96%	
48) Toluene-d8	13.32	98	72498	5.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.72%	
62) 4-Bromofluorobenzene	16.95	95	19393	4.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.80%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.44 ug/L #	94
5) Dichlorodifluoromethane	4.12	85	50503	5.33 ug/L	98
6) Chloromethane	4.35	50	49357	5.35 ug/L	98
7) Vinyl Chloride	4.63	62	49265	5.84 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.50 ug/L	97
9) Bromomethane	5.19	94	30021	5.82 ug/L	91
10) Chloroethane	5.38	64	23447	5.60 ug/L	97
11) Trichlorofluoromethane	6.11	101	40948	5.49 ug/L	97
12) Acetone	6.26	43	4795m	4.41 ug/L	
13) Iodomethane	6.86	142	44247	5.07 ug/L	98
14) 1,1-Dichloroethene	6.80	96	26139	5.03 ug/L	100
15) Methylene Chloride	7.00	84	23231	5.02 ug/L	96
16) Freon 113	7.08	101	29531	5.49 ug/L	97
17) Carbon disulfide	7.30	76	90258	5.34 ug/L	98
18) trans-1,2-Dichloroethene	7.87	96	30944	5.14 ug/L	98
19) MTBE	8.00	73	42861	5.03 ug/L	99
20) 1,1-Dichloroethane	8.18	63	50278	5.38 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.83 ug/L	99
22) n-Hexane	8.68	86	8584	5.81 ug/L	73
23) 2-Butanone (MEK)	8.73	72	1806	4.85 ug/L #	60
24) Diisopropyl Ether (DIPE)	8.74	45	78319	4.96 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	27851	5.08 ug/L	99
26) Bromochloromethane	9.11	128	10529	4.84 ug/L	90
27) Chloroform	9.17	83	43865	5.36 ug/L	97
28) 2,2-Dichloropropane	9.27	77	32662	5.27 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	4.88 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	4.38 ug/L	95
32) 1,2-Dichloroethane	10.01	62	19485	4.94 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.21 ug/L	97
34) (TAME) tert-Amyl methyl et	10.86	73	44807	4.88 ug/L	98
36) 1,1-Dichloropropene	10.37	75	40445	5.34 ug/L	96
37) Carbon Tetrachloride	10.61	117	30853	5.20 ug/L	95
38) Benzene	10.66	78	91136	5.04 ug/L	99
39) Dibromomethane	11.39	93	10657	4.99 ug/L	94
40) 1,2-Dichloropropane	11.44	63	21430	4.98 ug/L	97

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:56 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	27389	5.41 ug/L	94
42)	Bromodichloromethane	11.55	83	25974	5.24 ug/L	95
43)	2-Chlorovinylethylether	12.09	63	6853	4.21 ug/L	96
44)	cis-1,3-Dichloropropene	12.39	75	28675	4.96 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.61 ug/L	98
46)	trans-1,3-Dichloropropene	12.96	75	21114	4.80 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	12837	5.12 ug/L	94
49)	Toluene	13.42	92	54238	5.28 ug/L	97
51)	1,3-Dichloropropane	13.49	76	23699	5.26 ug/L	96
52)	2-Hexanone	13.69	43	8850	4.70 ug/L #	94
53)	Dibromochloromethane	13.86	129	16099	4.93 ug/L	100
54)	1,2-Dibromoethane	14.19	107	13554	4.95 ug/L	95
55)	Tetrachloroethene	14.41	164	23934	5.36 ug/L	95
56)	1,1,1,2-Tetrachloroethane	15.21	131	18257	5.10 ug/L	95
57)	Chlorobenzene	15.32	112	54536	5.24 ug/L	98
58)	Ethylbenzene	15.59	91	93388	5.14 ug/L	99
59)	m,p-Xylenes	15.85	106	35706	5.15 ug/L	98
60)	Styrene	16.30	104	44417	4.78 ug/L	98
61)	o-Xylene	16.39	106	32546	5.08 ug/L	98
64)	Bromoform	16.01	173	9250	4.92 ug/L #	82
65)	1,1,2,2-Tetrachloroethane	16.39	83	14360	4.89 ug/L	97
66)	1,2,3-Trichloropropane	16.59	110	3714	5.25 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.62	53	3143	5.21 ug/L #	94
68)	Isopropylbenzene	16.90	105	84596	5.19 ug/L	98
69)	Bromobenzene	17.25	156	19667	4.95 ug/L	93
70)	n-Propylbenzene	17.50	91	106364	5.14 ug/L	99
71)	2-Chlorotoluene	17.64	91	57156	5.10 ug/L	99
72)	4-Chlorotoluene	17.75	91	57414	5.24 ug/L	97
73)	1,3,5-Trimethylbenzene	17.91	105	65369	5.14 ug/L	98
74)	tert-Butylbenzene	18.30	119	58429	5.14 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	63046	5.24 ug/L	99
76)	sec-Butylbenzene	18.61	105	99506	5.41 ug/L	100
77)	1,3-Dichlorobenzene	18.71	146	37917	5.24 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	35468	5.00 ug/L	98
79)	p-Isopropyltoluene	18.86	119	72640	5.27 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	30287	5.14 ug/L	100
81)	n-Butylbenzene	19.39	91	70667	5.35 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.87	75	1150	3.92 ug/L #	53
83)	1,2,4-Trichlorobenzene	21.51	180	17519	5.55 ug/L	96
84)	Napthalene	21.82	128	26687	5.28 ug/L	96
85)	Hexachlorobutadiene	21.88	225	14706	6.26 ug/L	92
86)	1,2,3-Trichlorobenzene	22.08	180	14724	5.45 ug/L	96

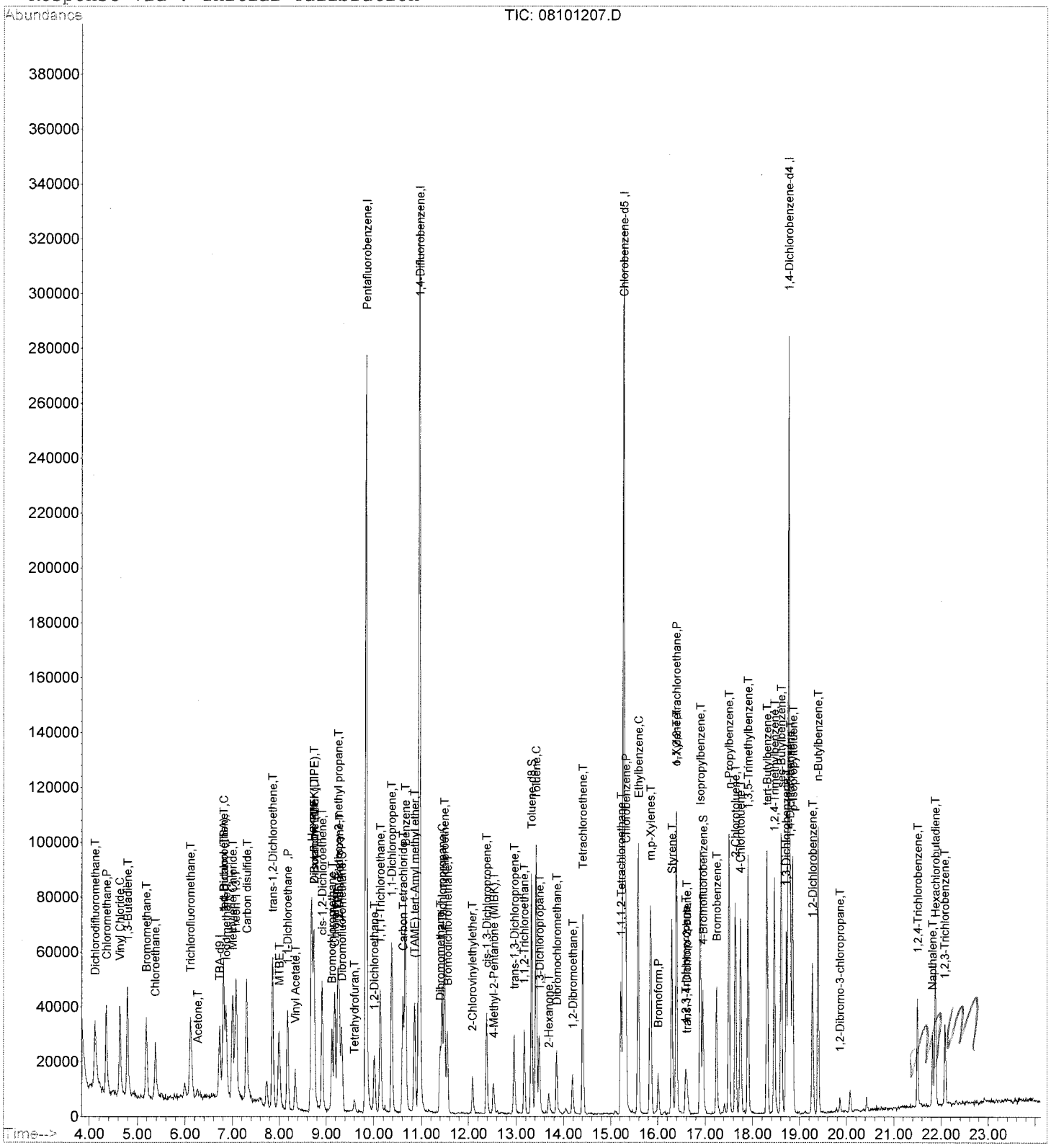
MNM

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:57 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

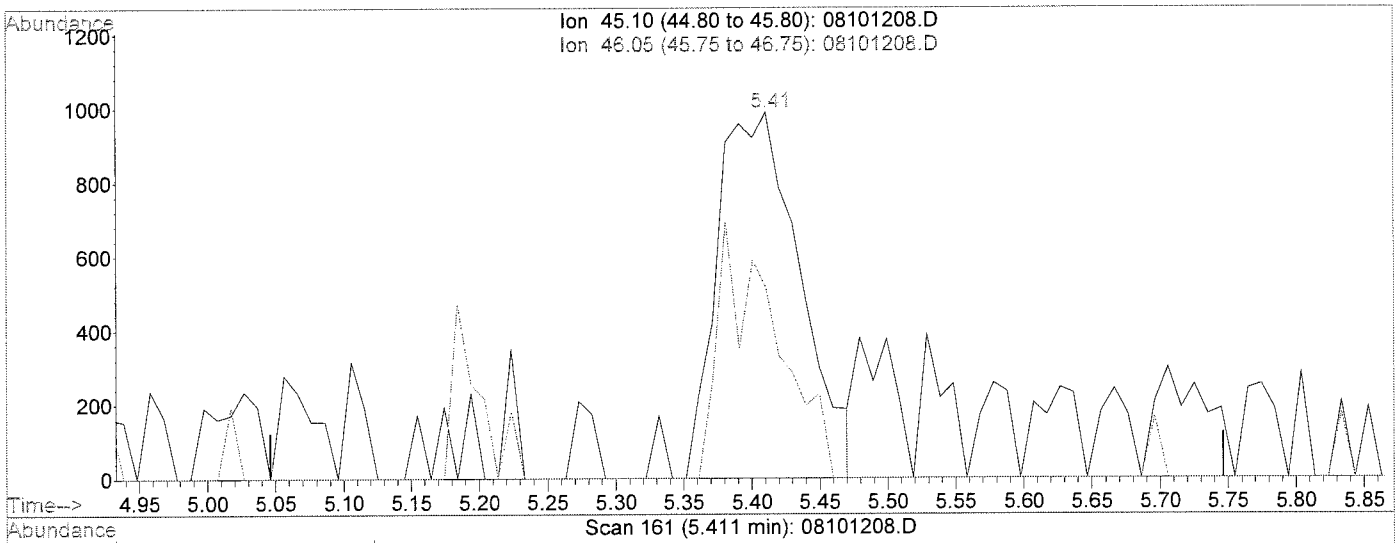


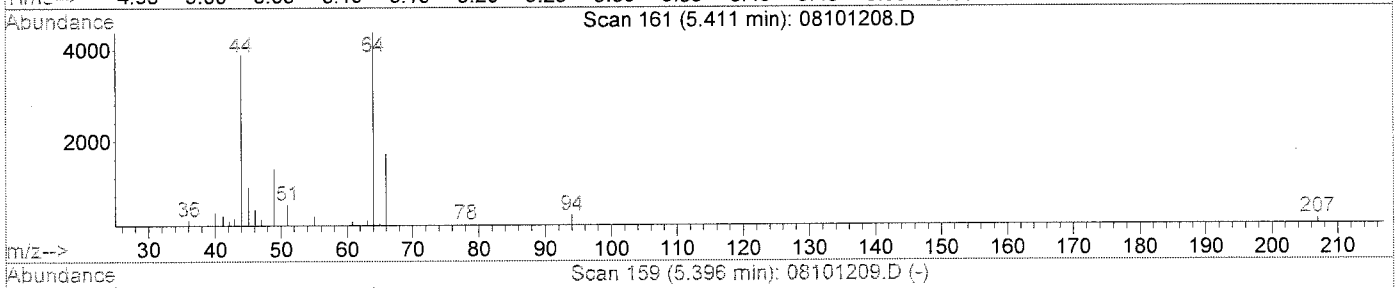
08101207.D 081012.M Mon Aug 13 05:21:57 2012

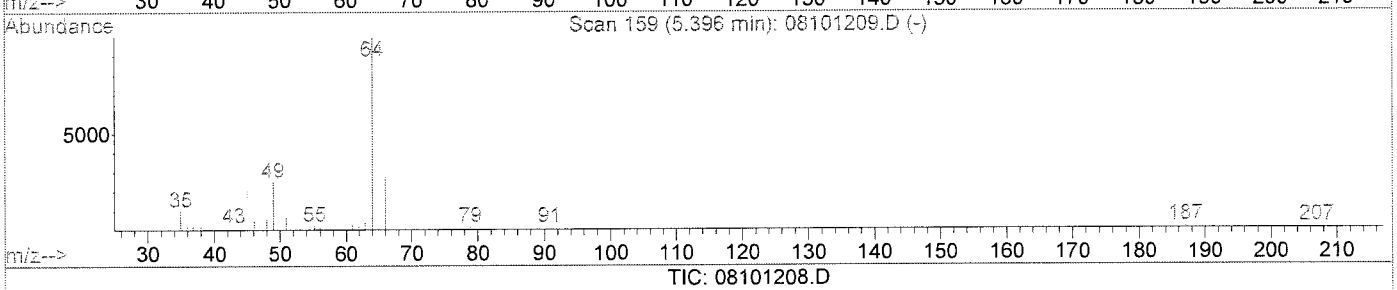
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 142.10ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

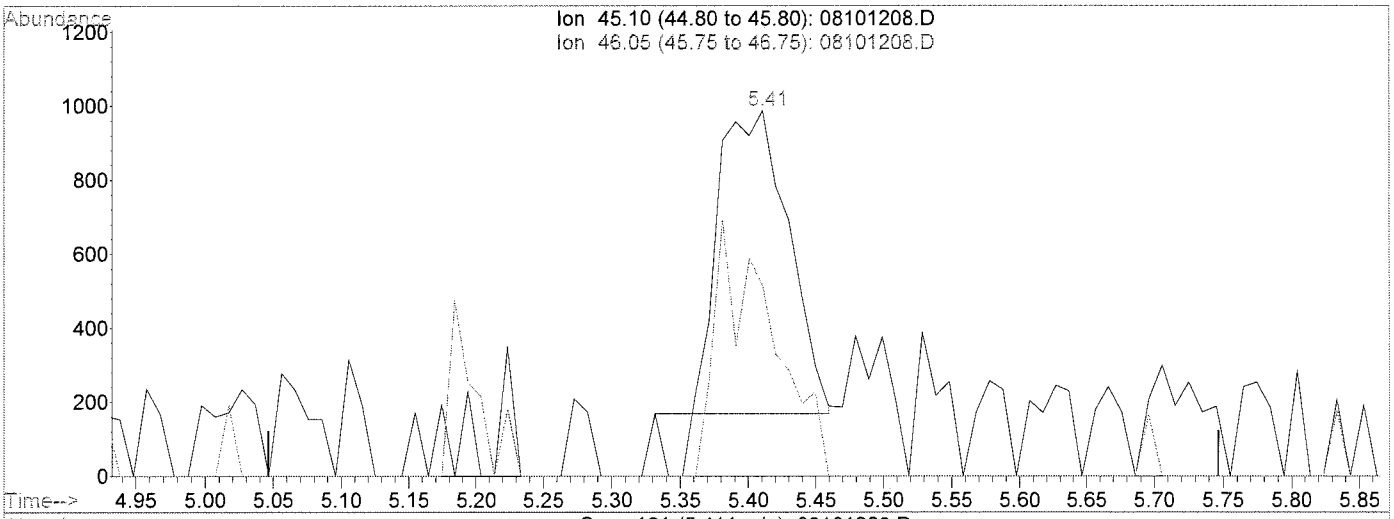
B

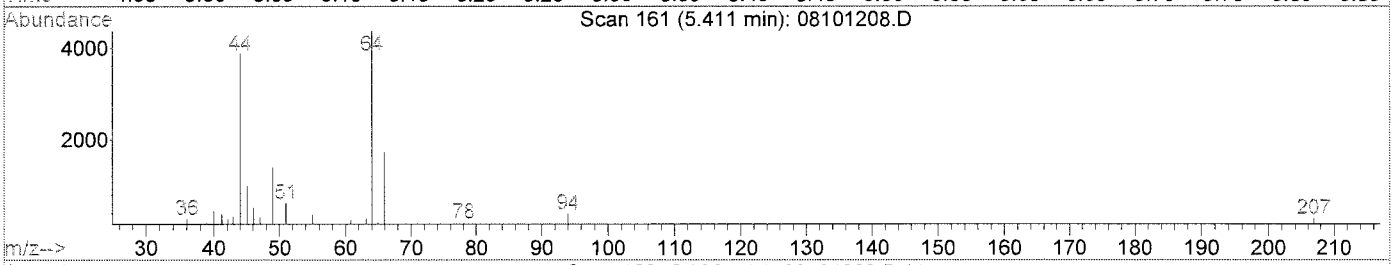
BL MM 8/13/12

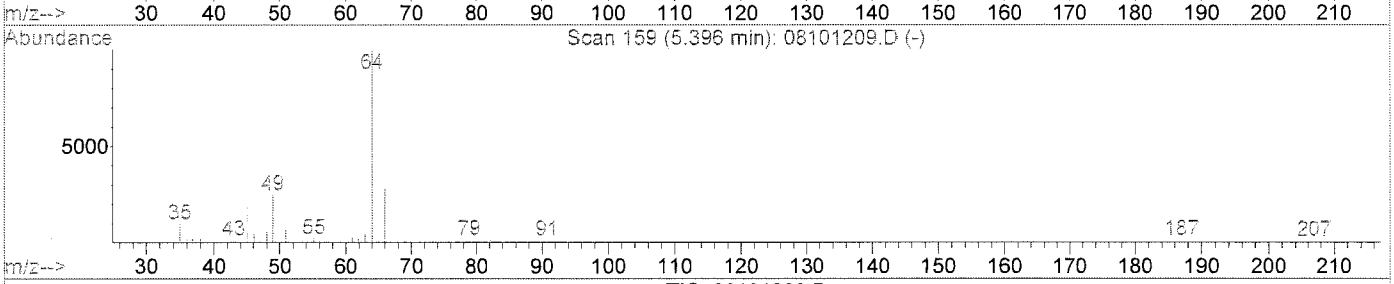
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(2) Ethanol (T)

5.41min 94.06ug/L m

response 2755

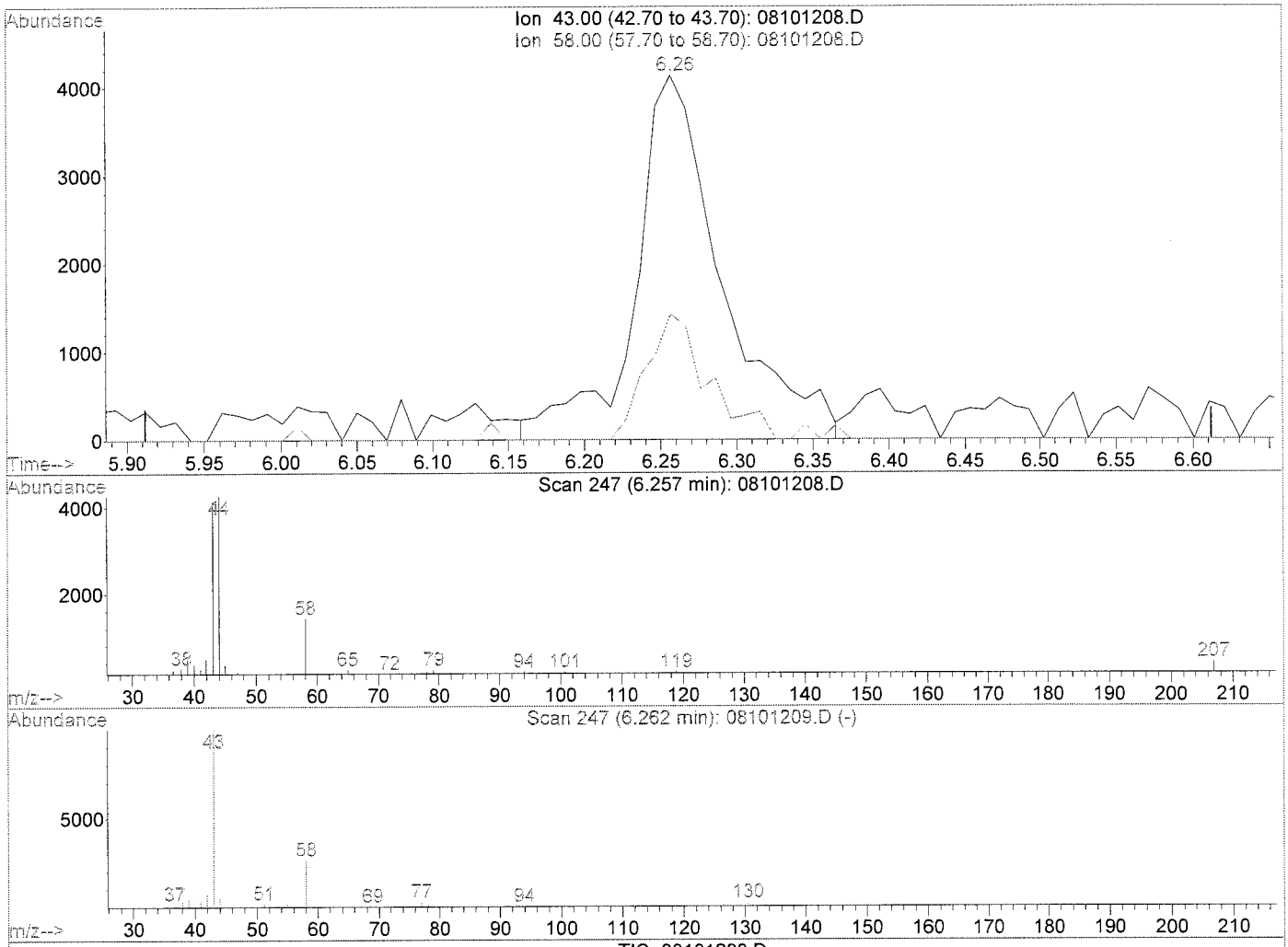
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	73.79
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



TIC: 08101208.D

8/13/12

(12) Acetone (T)

6.26min 14.56ug/L

response 16281

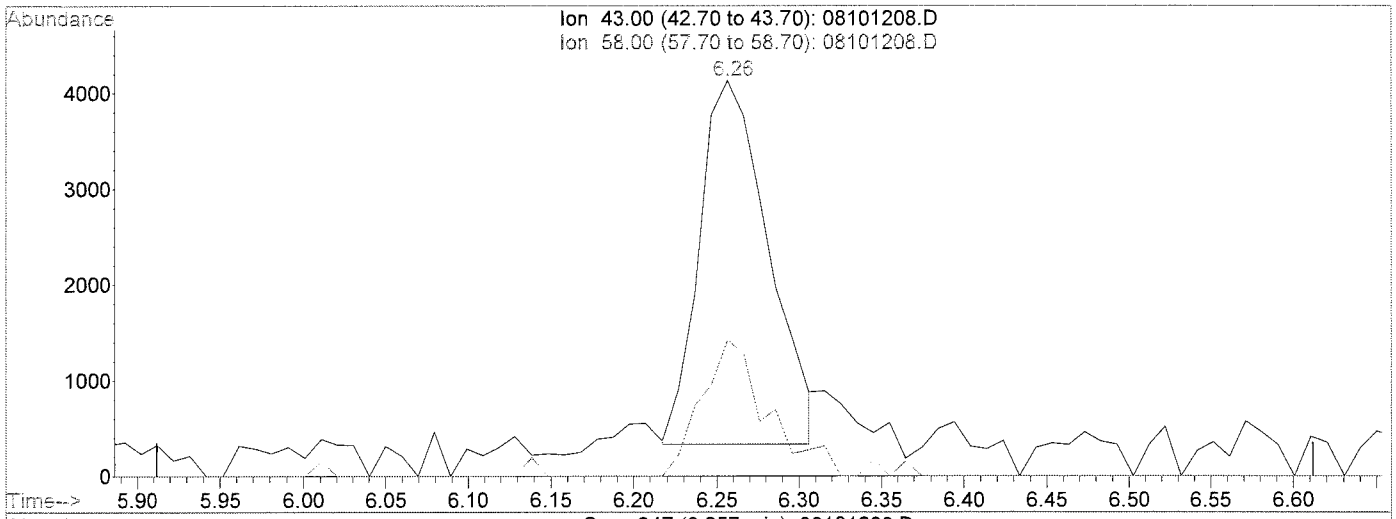
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.34#
0.00	0.00	0.00
0.00	0.00	0.00

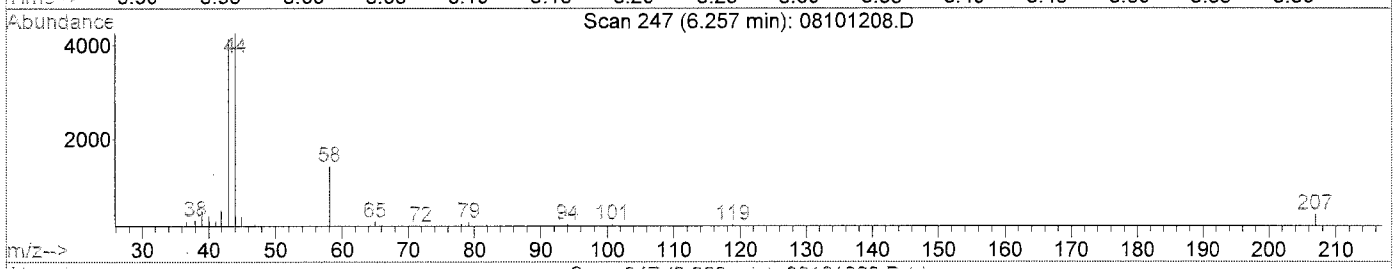
BL MM 8/13/12

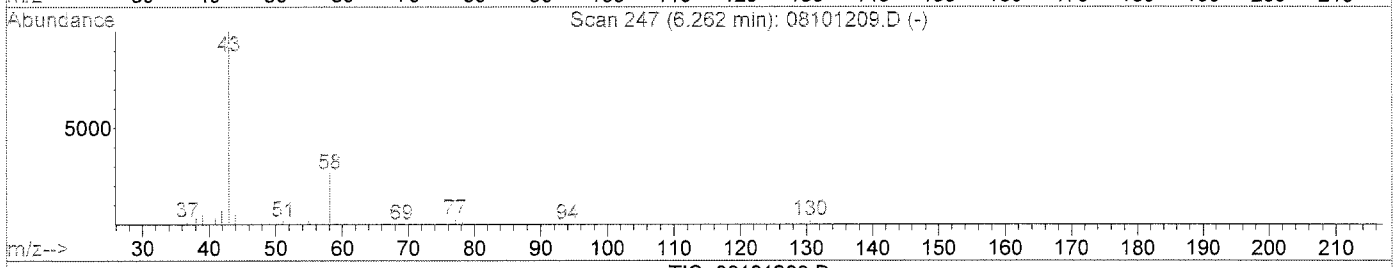
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 9.85ug/L m

response 11022

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.96
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	10.37 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.48%	
48) Toluene-d8	13.33	98	151060	10.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	42.16%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	44.48%	
Target Compounds					Qvalue
2) Ethanol	5.41	45	2755m	94.06 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	47.38 ug/L #	95
5) Dichlorodifluoromethane	4.11	85	99359	10.19 ug/L	99
6) Chloromethane	4.35	50	99085	10.44 ug/L	100
7) Vinyl Chloride	4.63	62	94725	10.91 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	10.80 ug/L	93
9) Bromomethane	5.18	94	57814	10.90 ug/L	96
10) Chloroethane	5.38	64	44676	10.38 ug/L	97
11) Trichlorofluoromethane	6.11	101	81825	10.66 ug/L	96
12) Acetone	6.26	43	11022m	9.85 ug/L	
13) Iodomethane	6.87	142	92968	10.36 ug/L	99
14) 1,1-Dichloroethene	6.81	96	53536	10.02 ug/L	97
15) Methylene Chloride	6.99	84	48433	10.18 ug/L	99
16) Freon 113	7.07	101	57249	10.35 ug/L	95
17) Carbon disulfide	7.30	76	183724	10.58 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	63718	10.29 ug/L	99
19) MTBE	8.00	73	90114	10.29 ug/L	96
20) 1,1-Dichloroethane	8.17	63	99374	10.33 ug/L	99
21) Vinyl Acetate	8.34	43	68389	10.03 ug/L	98
22) n-Hexane	8.69	86	15274	10.05 ug/L	99
23) 2-Butanone (MEK)	8.74	72	3909	10.21 ug/L #	34
24) Diisopropyl Ether (DIPE)	8.74	45	169576	10.44 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	59154	10.49 ug/L	96
26) Bromochloromethane	9.12	128	23711	10.59 ug/L	96
27) Chloroform	9.18	83	88095	10.47 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.39 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	10.37 ug/L	99
31) Tetrahydrofuran	9.59	72	3578	10.28 ug/L	96
32) 1,2-Dichloroethane	10.01	62	41085	10.12 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	75517	10.72 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	91702	9.70 ug/L	98
36) 1,1-Dichloropropene	10.38	75	86510	11.14 ug/L	98
37) Carbon Tetrachloride	10.61	117	64587	10.61 ug/L	96
38) Benzene	10.66	78	192601	10.40 ug/L	98
39) Dibromomethane	11.39	93	22947	10.49 ug/L	95
40) 1,2-Dichloropropane	11.43	63	45818	10.38 ug/L	97

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:23 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	10.32 ug/L		97
42)	Bromodichloromethane	11.55	83	54093	10.65 ug/L		99
43)	2-Chlorovinylethylether	12.09	63	17562	10.53 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	62172	10.50 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	10.20 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	46129	10.24 ug/L		97
47)	1,1,2-Trichloroethane	13.17	97	27529	10.72 ug/L		99
49)	Toluene	13.42	92	109934	10.43 ug/L		99
51)	1,3-Dichloropropane	13.49	76	47813	10.47 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.79 ug/L		99
53)	Dibromochloromethane	13.85	129	35116	10.61 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	10.66 ug/L		96
55)	Tetrachloroethene	14.41	164	47547	10.50 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	10.56 ug/L		97
57)	Chlorobenzene	15.32	112	113987	10.80 ug/L		98
58)	Ethylbenzene	15.58	91	196709	10.67 ug/L		100
59)	m,p-Xylenes	15.85	106	77315	10.99 ug/L		98
60)	Styrene	16.30	104	101282	10.75 ug/L		98
61)	o-Xylene	16.40	106	72024	11.08 ug/L		96
64)	Bromoform	16.00	173	18119	9.69 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	11.32 ug/L	#	96
66)	1,2,3-Trichloropropane	16.59	110	7207	10.24 ug/L		96
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	9.83 ug/L		94
68)	Isopropylbenzene	16.90	105	174169	10.73 ug/L		99
69)	Bromobenzene	17.24	156	41493	10.49 ug/L		96
70)	n-Propylbenzene	17.51	91	220385	10.70 ug/L		100
71)	2-Chlorotoluene	17.65	91	118995	10.68 ug/L		97
72)	4-Chlorotoluene	17.75	91	114947	10.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	140555	11.10 ug/L		99
74)	tert-Butylbenzene	18.31	119	125080	11.06 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	130209	10.87 ug/L		98
76)	sec-Butylbenzene	18.61	105	203460	11.12 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	10.93 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	10.66 ug/L		99
79)	p-Isopropyltoluene	18.86	119	152942	11.16 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	63302	10.80 ug/L		98
81)	n-Butylbenzene	19.39	91	148822	11.32 ug/L		97
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	10.63 ug/L	#	74
83)	1,2,4-Trichlorobenzene	21.50	180	37943	12.08 ug/L		98
84)	Napthalene	21.83	128	59549	11.85 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	11.81 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	11.71 ug/L		96

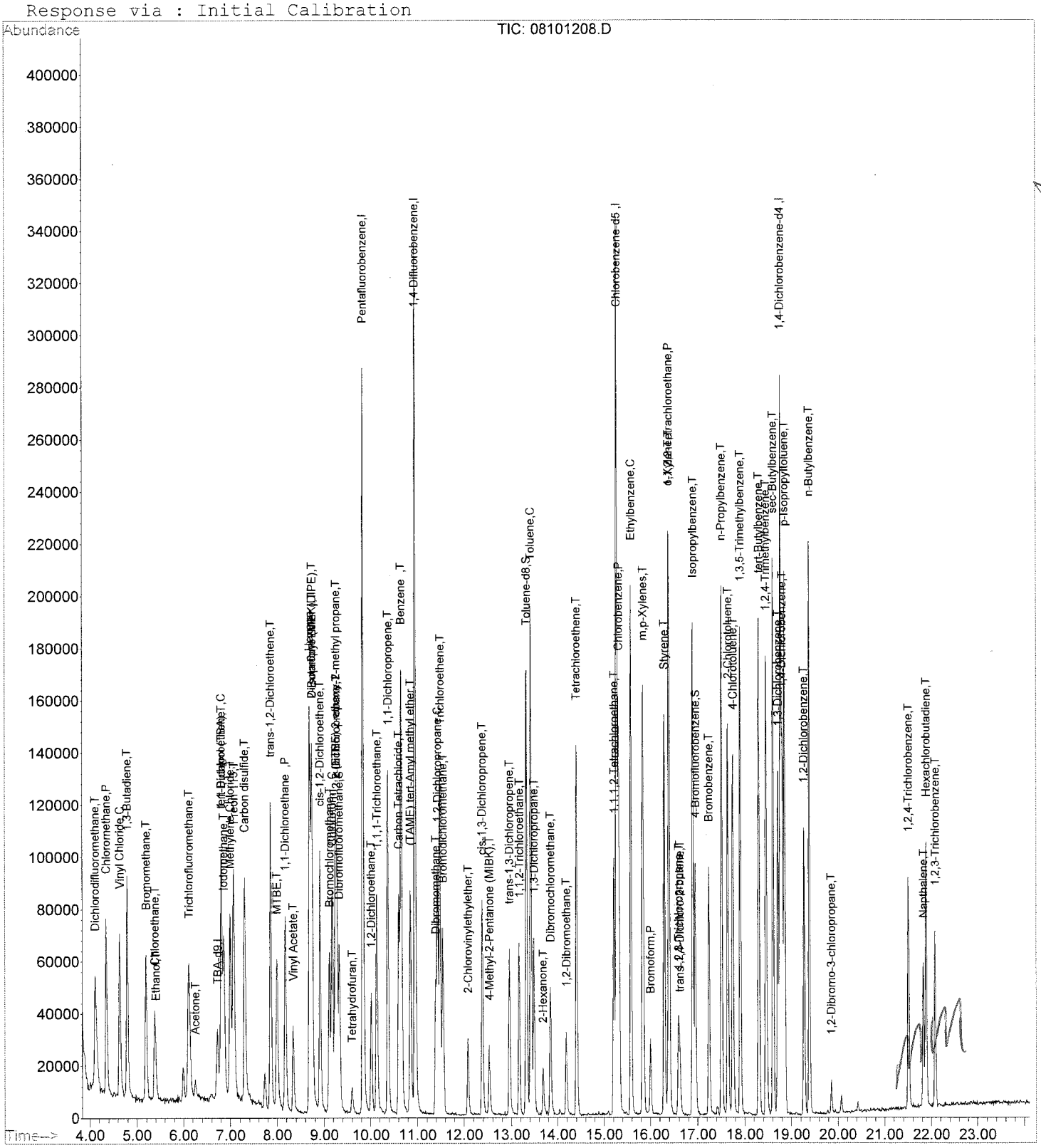
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

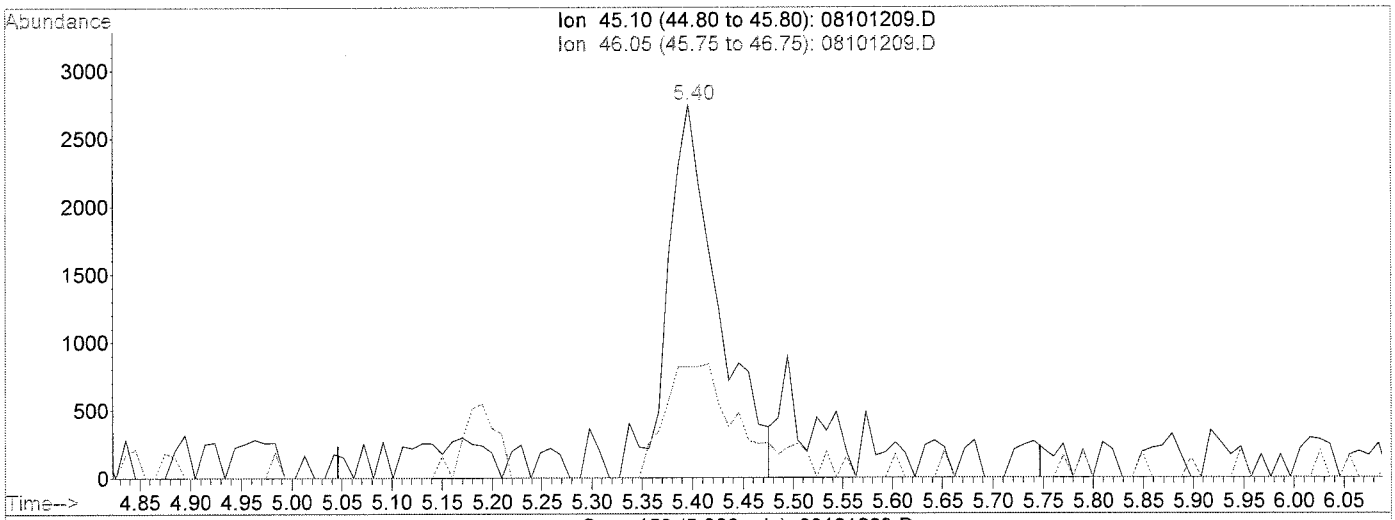
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

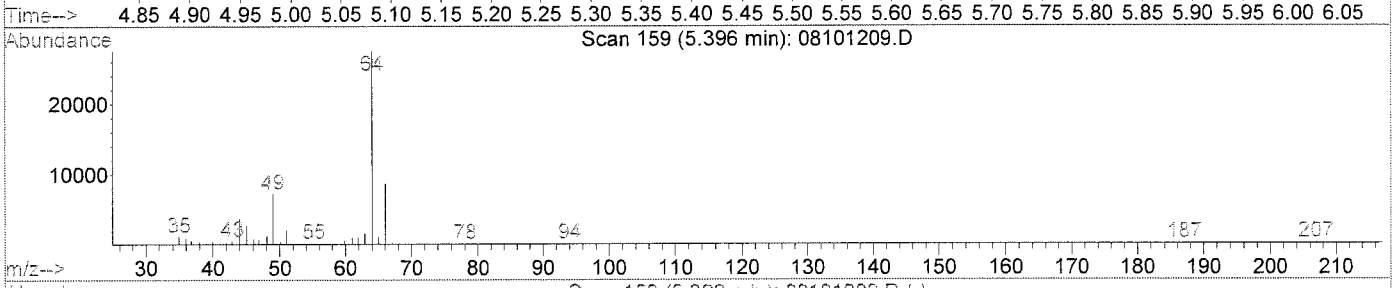


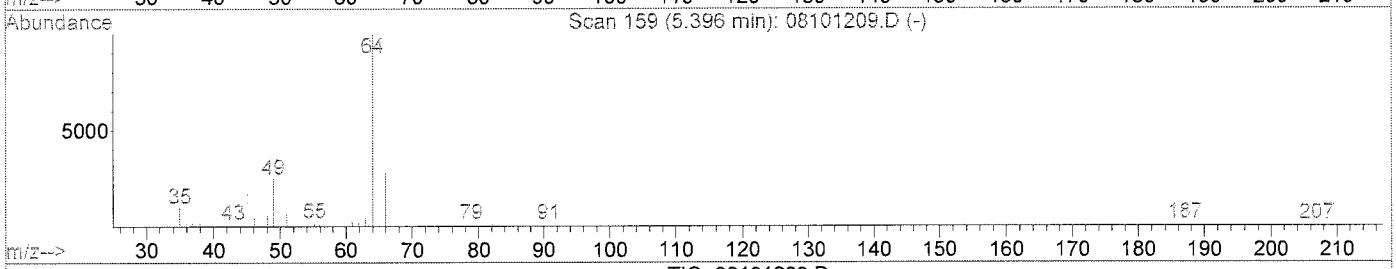
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 337.19ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

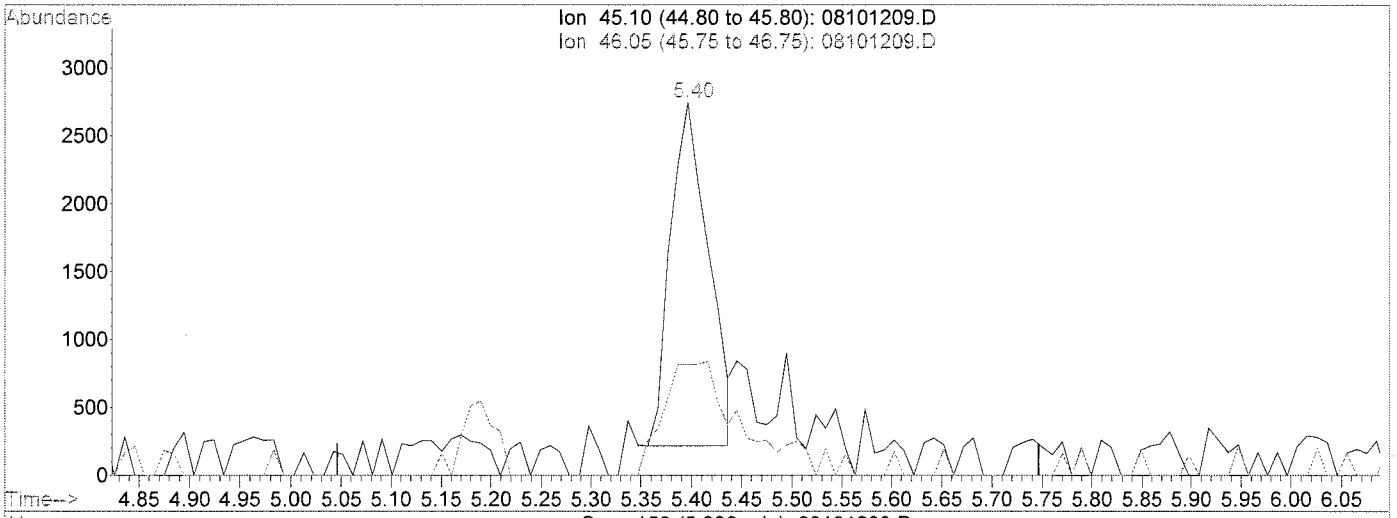
BL

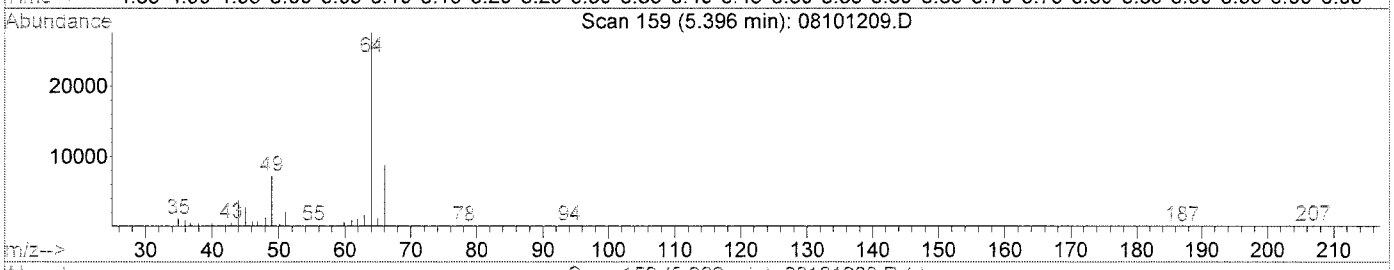
MNM 8/13/12

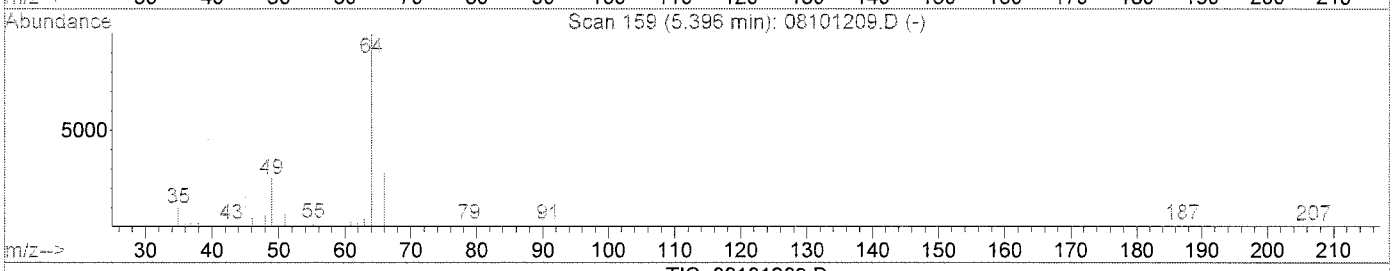
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 233.89ug/L m

response 6632

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	60.55
0.00	0.00	0.00
0.00	0.00	0.00

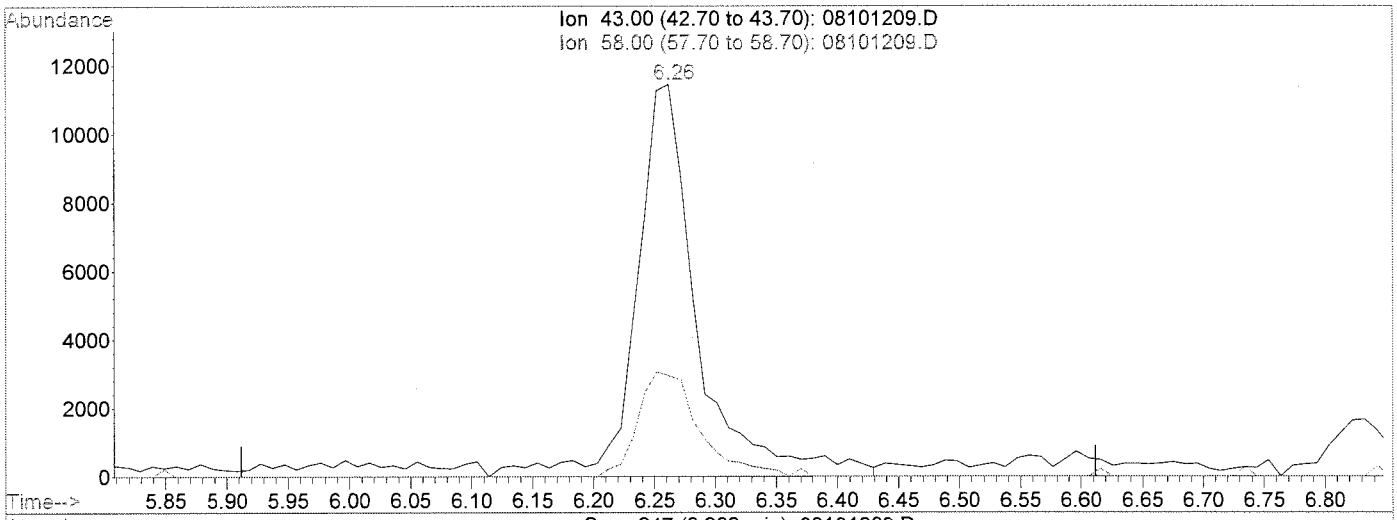
8/13/12

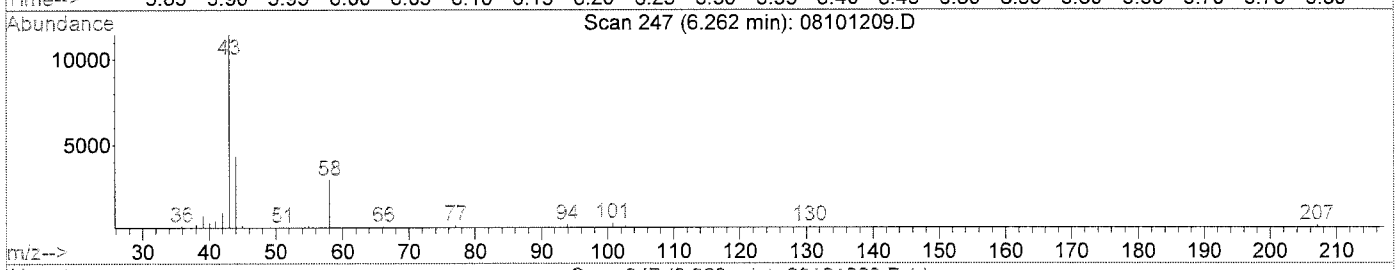
MNM 8/13/12

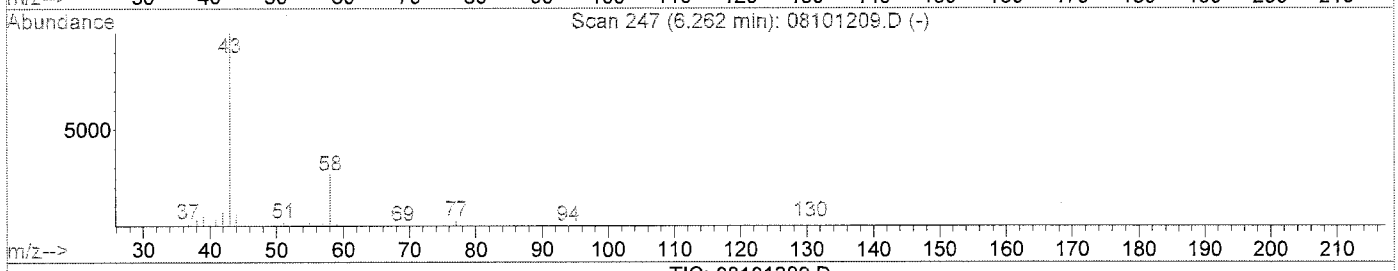
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 33.65ug/L

response 39847

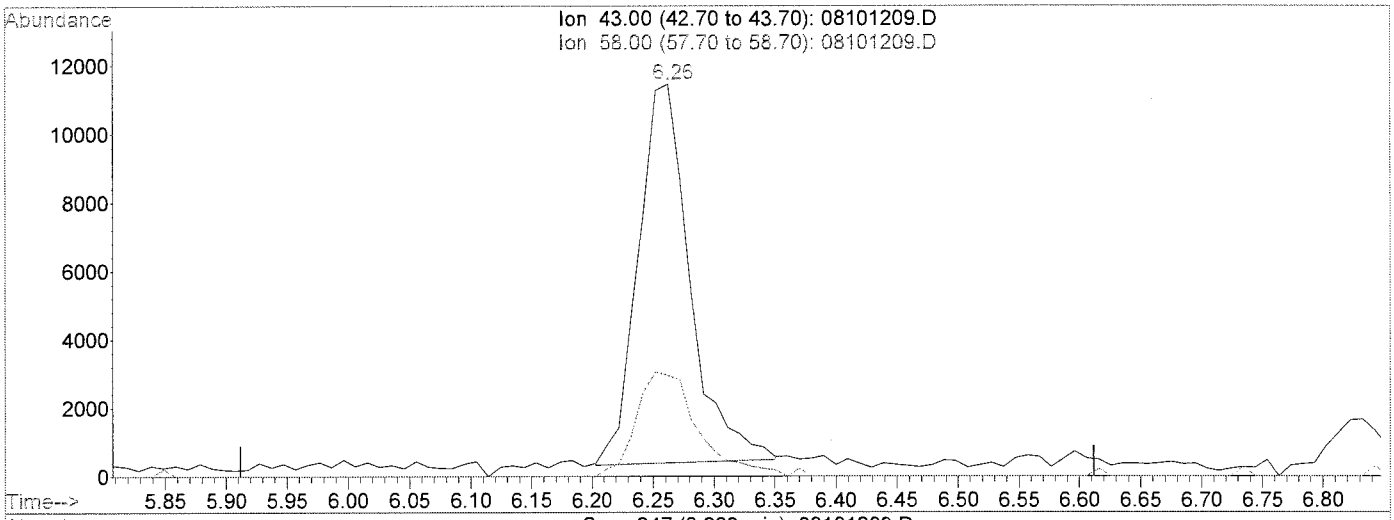
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

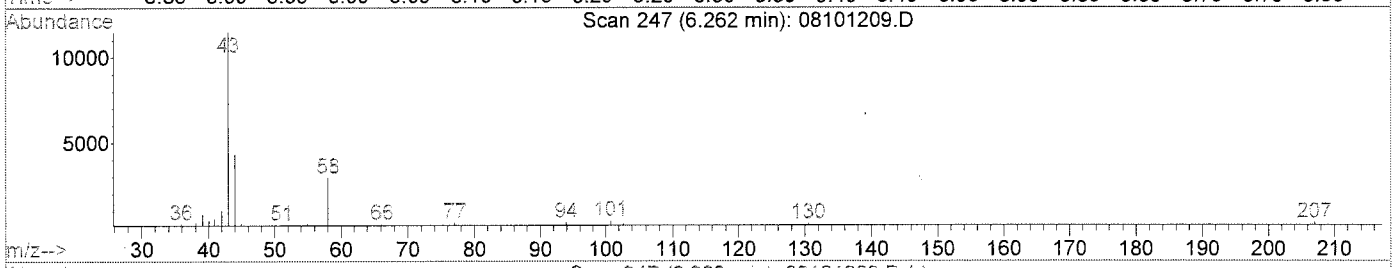
BL MM 8/13/12

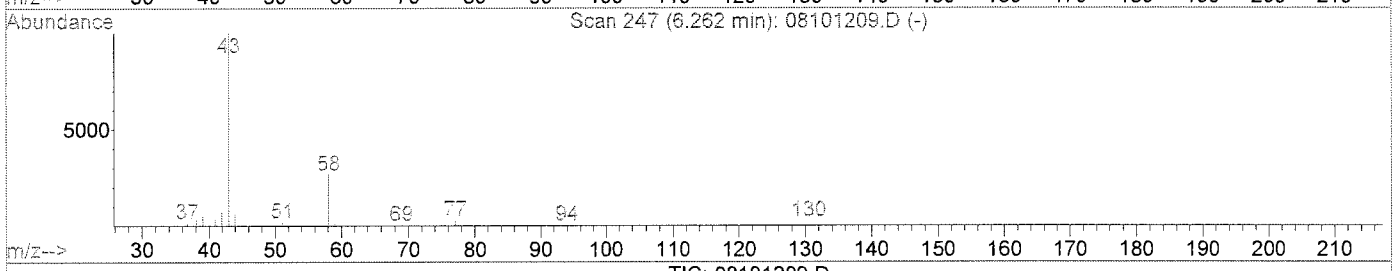
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 27.26ug/L m

response 32282

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.89
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	24.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.32%	
48) Toluene-d8	13.32	98	387904	25.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.52%	
62) 4-Bromofluorobenzene	16.95	95	104965	24.87 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.48%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6632m	233.89 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	127.92 ug/L	100
5) Dichlorodifluoromethane	4.11	85	259999	25.19 ug/L	100
6) Chloromethane	4.35	50	249108	24.80 ug/L	100
7) Vinyl Chloride	4.63	62	234281	25.48 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	25.57 ug/L	100
9) Bromomethane	5.19	94	136870	24.38 ug/L	100
10) Chloroethane	5.38	64	115028	25.23 ug/L	100
11) Trichlorofluoromethane	6.11	101	203736	25.07 ug/L	100
12) Acetone	6.26	43	32282m	27.26 ug/L	
13) Iodomethane	6.86	142	233911	24.63 ug/L	100
14) 1,1-Dichloroethene	6.81	96	132114	23.36 ug/L	100
15) Methylene Chloride	7.00	84	120484	23.93 ug/L	100
16) Freon 113	7.07	101	146166	24.95 ug/L	100
17) Carbon disulfide	7.29	76	465019	25.28 ug/L	100
18) trans-1,2-Dichloroethene	7.87	96	156993	23.93 ug/L	100
19) MTBE	8.00	73	227954	24.58 ug/L	100
20) 1,1-Dichloroethane	8.18	63	249879	24.53 ug/L	100
21) Vinyl Acetate	8.34	43	179194	24.82 ug/L	100
22) n-Hexane	8.69	86	38470	23.89 ug/L	100
23) 2-Butanone (MEK)	8.73	72	10850	26.78 ug/L #	100
24) Diisopropyl Ether (DIPE)	8.74	45	414456	24.10 ug/L	100
25) cis-1,2-Dichloroethene	8.91	96	143999	24.12 ug/L	100
26) Bromochloromethane	9.11	128	58383	24.63 ug/L	100
27) Chloroform	9.17	83	223471	25.08 ug/L	100
28) 2,2-Dichloropropane	9.27	77	163680	24.27 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	24.00 ug/L	100
31) Tetrahydrofuran	9.60	72	8067	21.89 ug/L	100
32) 1,2-Dichloroethane	10.01	62	105341	24.51 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	190354	25.51 ug/L	100
34) (TAME) tert-Amyl methyl et	10.86	73	241539	24.14 ug/L	100
36) 1,1-Dichloropropene	10.37	75	205389	24.57 ug/L	100
37) Carbon Tetrachloride	10.61	117	164083	25.03 ug/L	100
38) Benzene	10.66	78	497157	24.92 ug/L	100
39) Dibromomethane	11.39	93	58226	24.72 ug/L	100
40) 1,2-Dichloropropane	11.44	63	118189	24.87 ug/L	100

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:50 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	140936	25.20 ug/L	100
42) Bromodichloromethane	11.55	83	140799	25.74 ug/L	100
43) 2-Chlorovinylethylether	12.08	63	44348	24.69 ug/L	100
44) cis-1,3-Dichloropropene	12.39	75	164809	25.84 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	66778	23.32 ug/L	100
46) trans-1,3-Dichloropropene	12.95	75	123650	25.49 ug/L	100
47) 1,1,2-Trichloroethane	13.17	97	72275	26.13 ug/L	100
49) Toluene	13.42	92	282282	24.88 ug/L	100
51) 1,3-Dichloropropane	13.49	76	124333	25.64 ug/L	100
52) 2-Hexanone	13.69	43	53049	26.17 ug/L	100
53) Dibromochloromethane	13.86	129	92023	26.17 ug/L	100
54) 1,2-Dibromoethane	14.18	107	76183	25.85 ug/L	100
55) Tetrachloroethene	14.41	164	125279	26.04 ug/L	100
56) 1,1,1,2-Tetrachloroethane	15.21	131	102745	26.65 ug/L	100
57) Chlorobenzene	15.32	112	287853	25.67 ug/L	100
58) Ethylbenzene	15.59	91	512045	26.15 ug/L	100
59) m,p-Xylenes	15.84	106	195904	26.22 ug/L	100
60) Styrene	16.29	104	271388	27.12 ug/L	100
61) o-Xylene	16.39	106	178278	25.82 ug/L	100
64) Bromoform	16.01	173	52543	24.31 ug/L	100
65) 1,1,2,2-Tetrachloroethane	16.39	83	80822	23.97 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	19363	23.82 ug/L	100
67) trans-1,4-Dichloro-2-buten	16.62	53	18848	22.87 ug/L	100
68) Isopropylbenzene	16.89	105	450007	24.00 ug/L	100
69) Bromobenzene	17.25	156	113170	24.77 ug/L	100
70) n-Propylbenzene	17.50	91	579703	24.35 ug/L	100
71) 2-Chlorotoluene	17.64	91	304359	23.65 ug/L	100
72) 4-Chlorotoluene	17.75	91	297241	23.61 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	362766	24.80 ug/L	100
74) tert-Butylbenzene	18.30	119	324105	24.81 ug/L	100
75) 1,2,4-Trimethylbenzene	18.46	105	337490	24.39 ug/L	100
76) sec-Butylbenzene	18.61	105	528569	25.01 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	201590	24.24 ug/L	100
78) 1,4-Dichlorobenzene	18.81	146	196096	24.05 ug/L	100
79) p-Isopropyltoluene	18.85	119	400272	25.27 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	166930	24.66 ug/L	100
81) n-Butylbenzene	19.39	91	388212	25.56 ug/L	100
82) 1,2-Dibromo-3-chloropropan	19.86	75	9202	27.08 ug/L	100
83) 1,2,4-Trichlorobenzene	21.51	180	95814	26.39 ug/L	100
84) Napthalene	21.82	128	152397	26.24 ug/L	100
85) Hexachlorobutadiene	21.88	225	71752	28.94 ug/L	100
86) 1,2,3-Trichlorobenzene	22.09	180	77645	26.44 ug/L	100

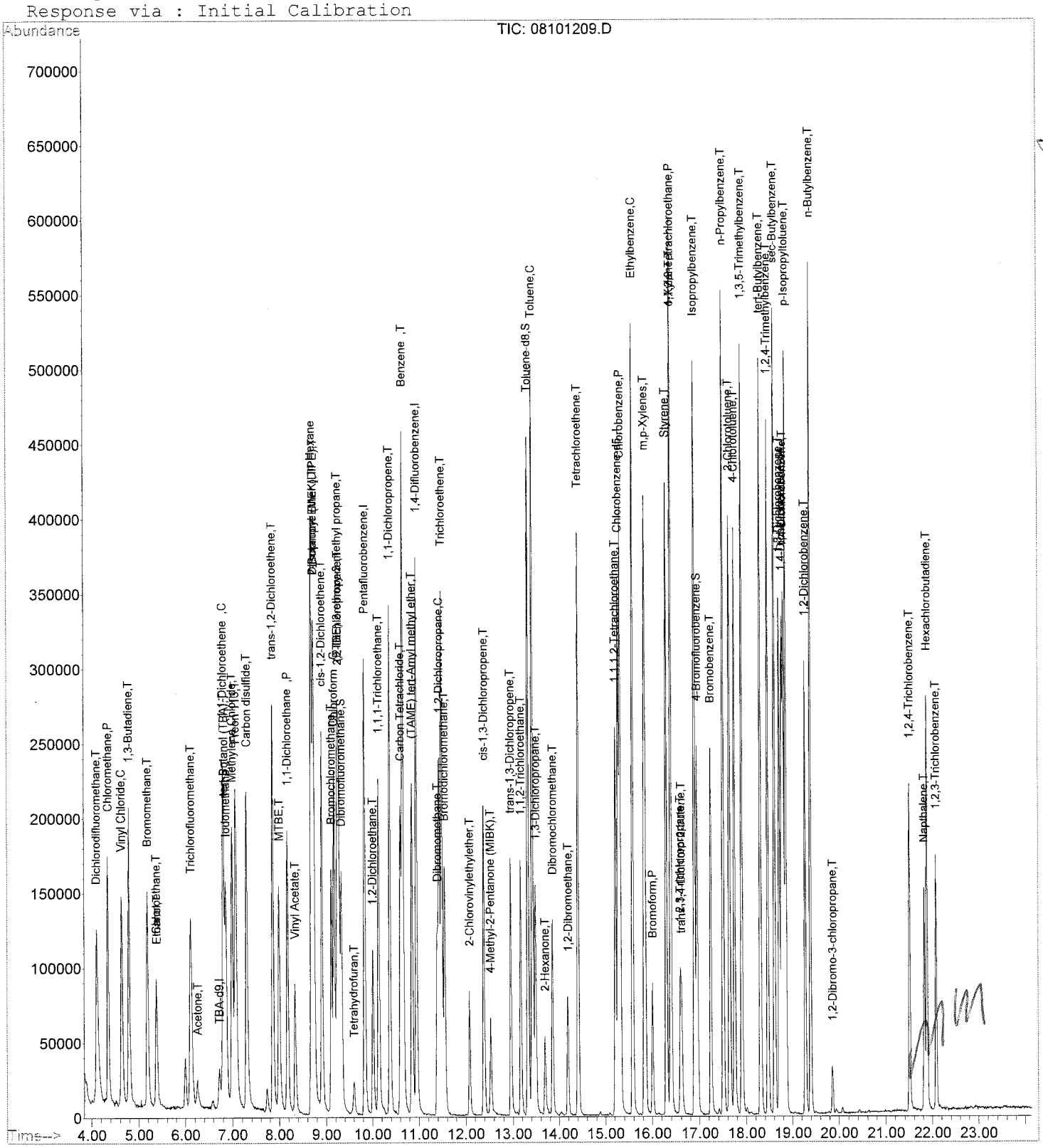
MNM

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

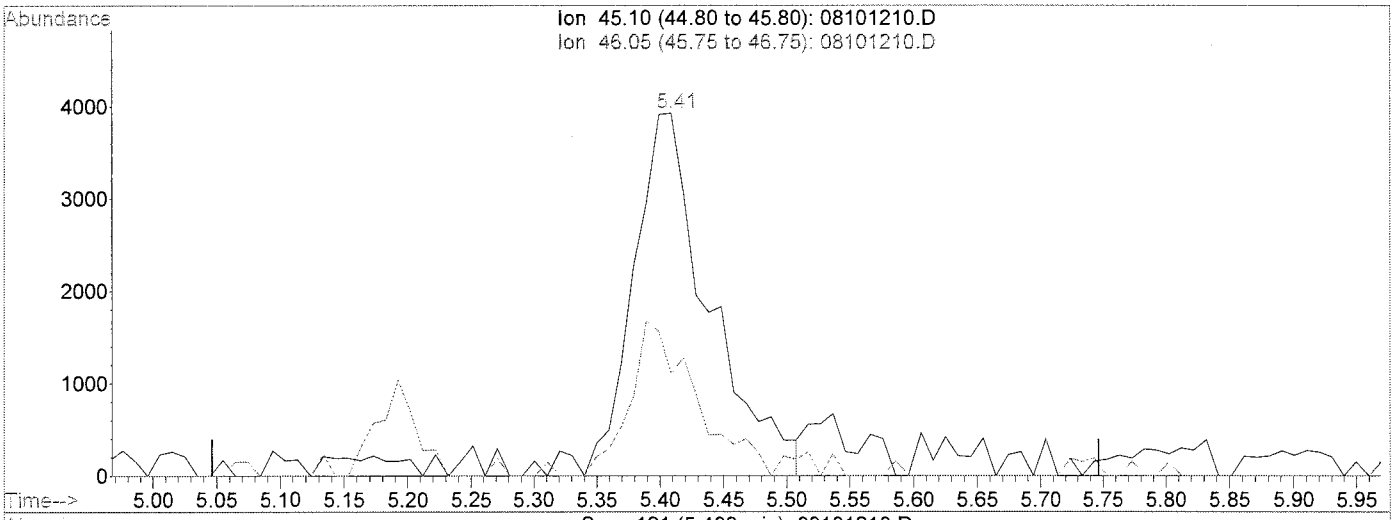
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

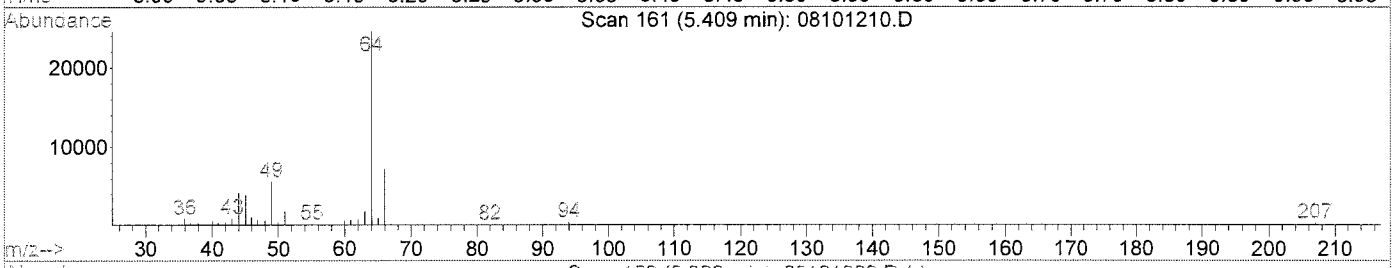


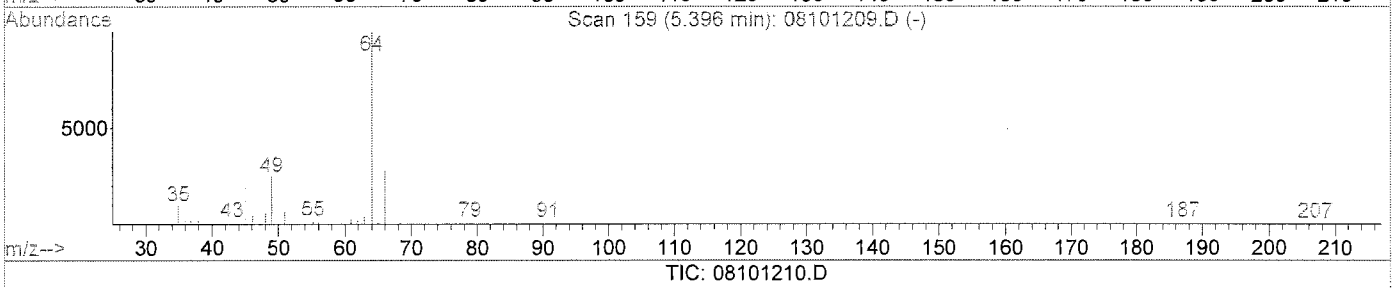
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 570.69ug/L

response 16581

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	36.61#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

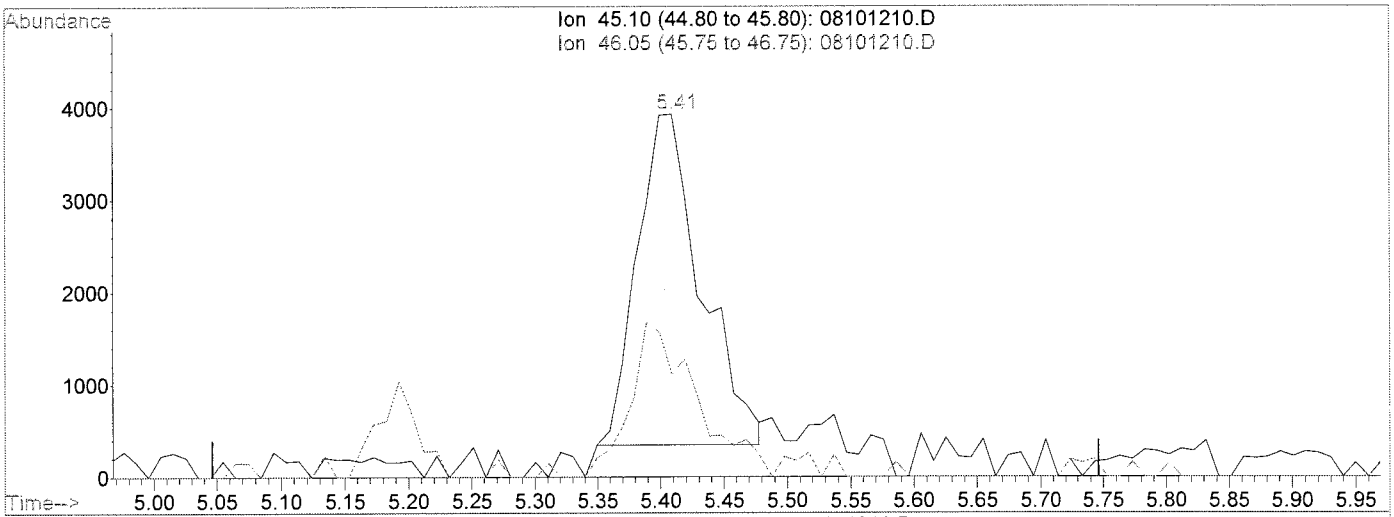
B

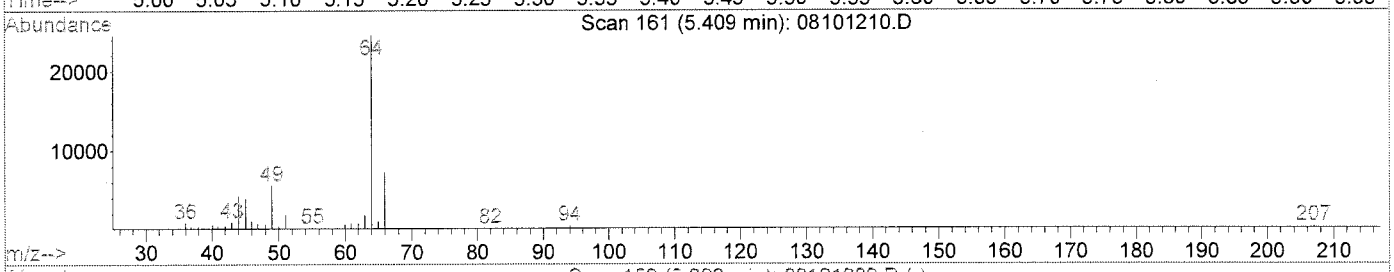
BL MM 8/13/12

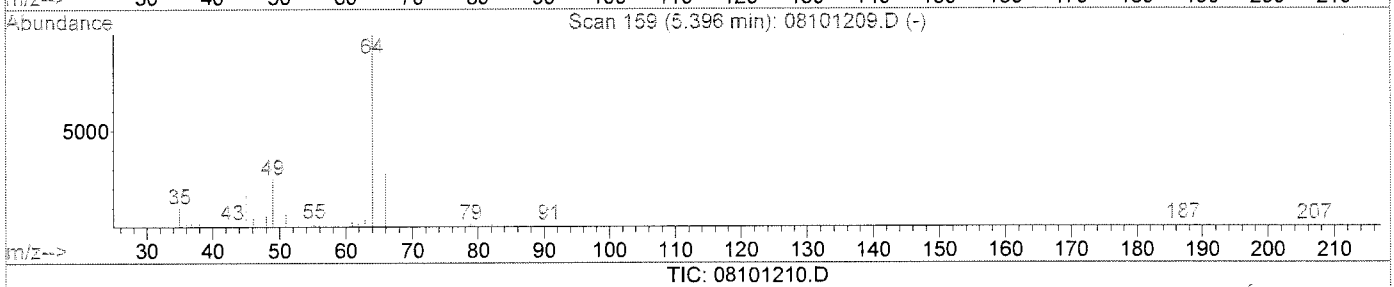
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 429.61ug/L m

response 12482

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.64
0.00	0.00	0.00
0.00	0.00	0.00

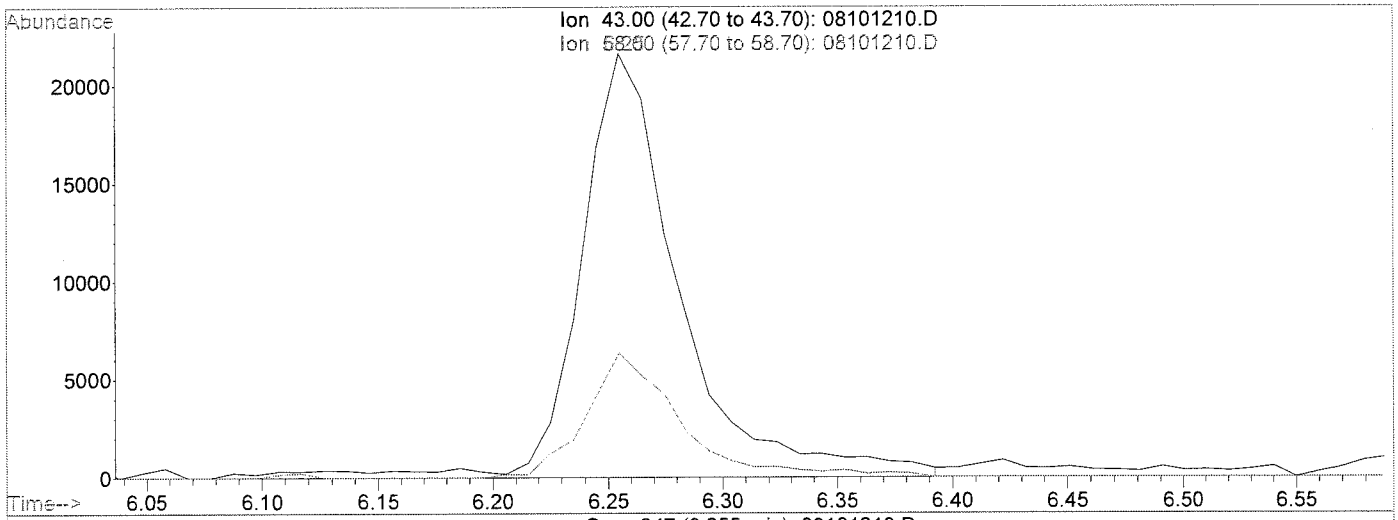
8/13/12

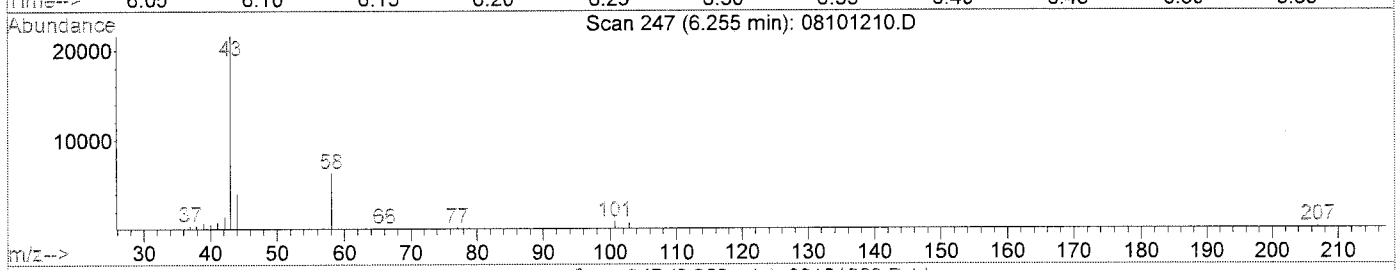
MNM 8/13/12

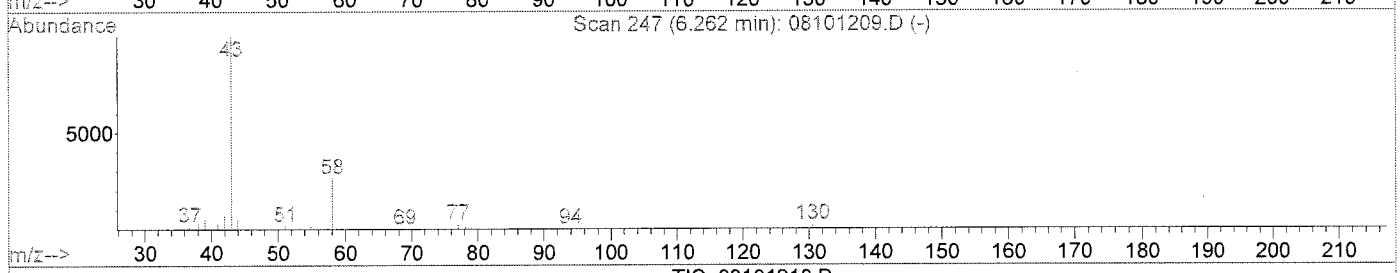
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 56.11ug/L

response 63143

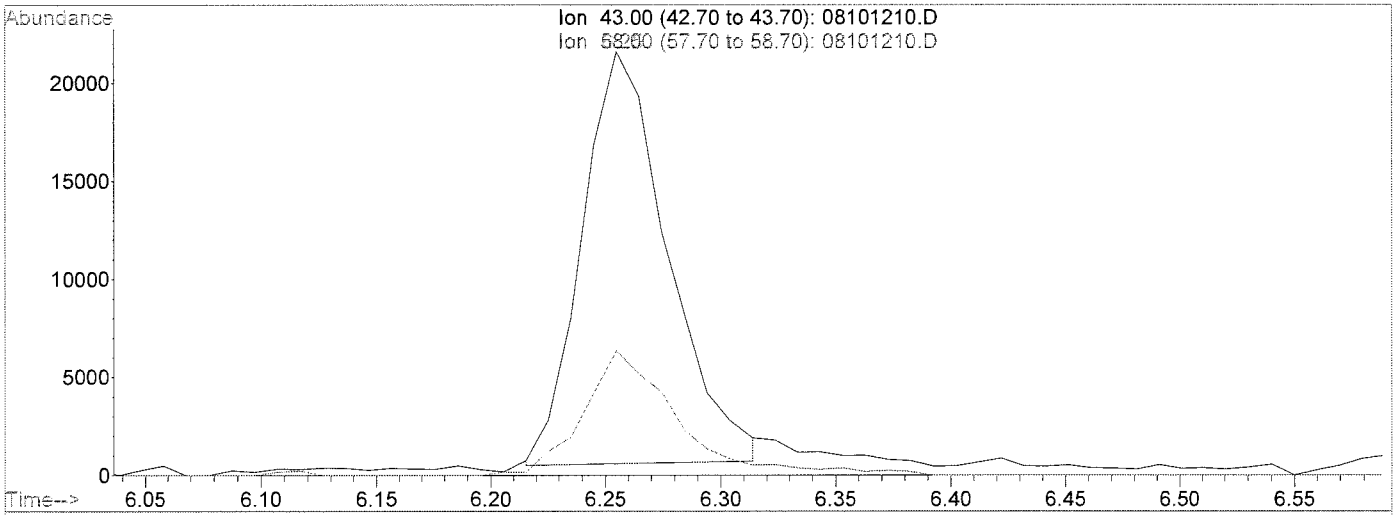
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.25min 48.26ug/L m

response 54317

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.29
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	46.80 ug/L	0.00
Spiked Amount 25.000			Recovery	= 187.20%	
48) Toluene-d8	13.33	98	687603	46.66 ug/L	0.00
Spiked Amount 25.000			Recovery	= 186.64%	
62) 4-Bromofluorobenzene	16.96	95	191956	46.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 184.44%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12482m	429.61 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	226.53 ug/L	99
5) Dichlorodifluoromethane	4.11	85	495471	50.51 ug/L	99
6) Chloromethane	4.36	50	463586	48.56 ug/L	98
7) Vinyl Chloride	4.63	62	430153	49.24 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	50.13 ug/L	99
9) Bromomethane	5.19	94	266149	49.88 ug/L	99
10) Chloroethane	5.38	64	224829	51.89 ug/L	97
11) Trichlorofluoromethane	6.12	101	394660	51.11 ug/L	100
12) Acetone	6.25	43	54317m	48.26 ug/L	
13) Iodomethane	6.86	142	447731	49.61 ug/L	100
14) 1,1-Dichloroethene	6.81	96	253470	47.16 ug/L	99
15) Methylene Chloride	7.00	84	232960	48.68 ug/L	98
16) Freon 113	7.07	101	270520	48.59 ug/L	97
17) Carbon disulfide	7.30	76	898748	51.41 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	303726	48.73 ug/L	99
19) MTBE	8.01	73	432429	49.07 ug/L	100
20) 1,1-Dichloroethane	8.18	63	476710	49.25 ug/L	99
21) Vinyl Acetate	8.34	43	345852	50.41 ug/L	99
22) n-Hexane	8.69	86	77107	50.40 ug/L	89
23) 2-Butanone (MEK)	8.72	72	17742	46.08 ug/L #	16
24) Diisopropyl Ether (DIPE)	8.73	45	798842	48.89 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	279884	49.33 ug/L	98
26) Bromochloromethane	9.12	128	116879	51.89 ug/L	92
27) Chloroform	9.18	83	417208	49.27 ug/L	99
28) 2,2-Dichloropropane	9.27	77	310117	48.38 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	48.67 ug/L	100
31) Tetrahydrofuran	9.60	72	16252	46.41 ug/L	89
32) 1,2-Dichloroethane	10.01	62	203344	49.78 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	353898	49.91 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	466510	49.07 ug/L	99
36) 1,1-Dichloropropene	10.38	75	398689	49.96 ug/L	98
37) Carbon Tetrachloride	10.61	117	317819	50.79 ug/L	99
38) Benzene	10.66	78	947346	49.75 ug/L	100
39) Dibromomethane	11.39	93	114917	51.12 ug/L	98
40) 1,2-Dichloropropane	11.44	63	221264	48.77 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	49.69 ug/L	99
42) Bromodichloromethane	11.55	83	271789	52.05 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	88468	51.59 ug/L	98
44) cis-1,3-Dichloropropene	12.38	75	321115	52.74 ug/L	99
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	47.91 ug/L	98
46) trans-1,3-Dichloropropene	12.95	75	237953	51.39 ug/L	99
47) 1,1,2-Trichloroethane	13.17	97	137777	52.19 ug/L	97
49) Toluene	13.42	92	546857	50.49 ug/L	99
51) 1,3-Dichloropropane	13.48	76	244280	51.06 ug/L	99
52) 2-Hexanone	13.68	43	100587	50.30 ug/L	96
53) Dibromochloromethane	13.85	129	183912	53.02 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	48.95 ug/L	97
55) Tetrachloroethene	14.41	164	226510	47.72 ug/L	98
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	49.15 ug/L	98
57) Chlorobenzene	15.32	112	554587	50.15 ug/L	98
58) Ethylbenzene	15.58	91	975473	50.50 ug/L	100
59) m,p-Xylenes	15.85	106	377996	51.28 ug/L	99
60) Styrene	16.30	104	514481	52.12 ug/L	99
61) o-Xylene	16.40	106	349209	51.26 ug/L	97
64) Bromoform	16.01	173	108591	53.31 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	49.23 ug/L	99
66) 1,2,3-Trichloropropane	16.59	110	37829	49.38 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	44.24 ug/L	89
68) Isopropylbenzene	16.90	105	857226	48.50 ug/L	98
69) Bromobenzene	17.25	156	212979	49.45 ug/L	97
70) n-Propylbenzene	17.51	91	1098531	48.96 ug/L	100
71) 2-Chlorotoluene	17.65	91	577687	47.62 ug/L	99
72) 4-Chlorotoluene	17.75	91	568985	47.96 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	676601	49.08 ug/L	100
74) tert-Butylbenzene	18.30	119	601956	48.89 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	638890	49.00 ug/L	99
76) sec-Butylbenzene	18.61	105	960020	48.19 ug/L	100
77) 1,3-Dichlorobenzene	18.72	146	388318	49.55 ug/L	98
78) 1,4-Dichlorobenzene	18.81	146	375463	48.86 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	49.72 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	317732	49.79 ug/L	100
81) n-Butylbenzene	19.39	91	715599	49.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	53.36 ug/L	98
83) 1,2,4-Trichlorobenzene	21.51	180	170461	49.82 ug/L	97
84) Napthalene	21.83	128	258045	47.14 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	50.23 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	49.90 ug/L	96

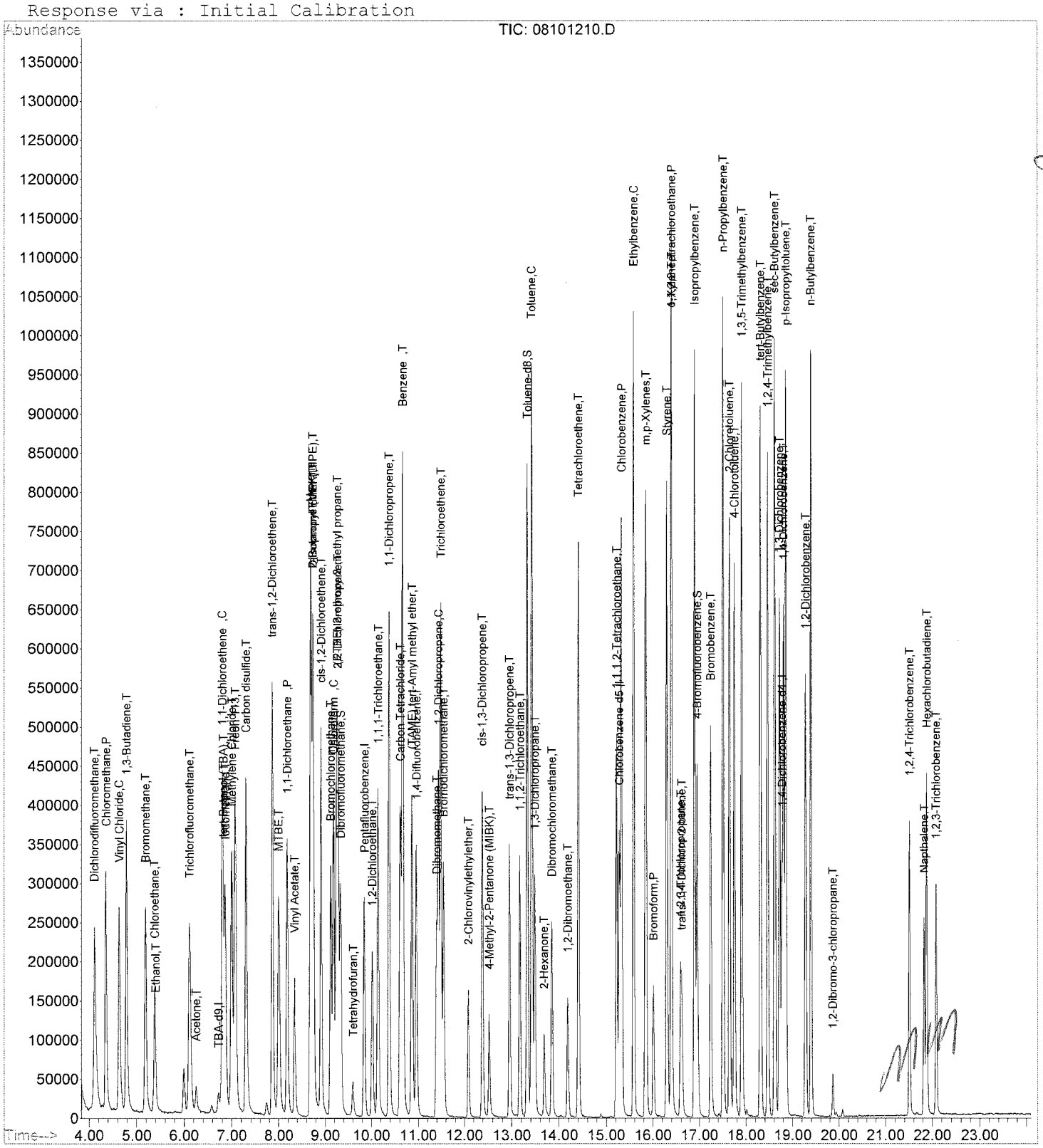
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

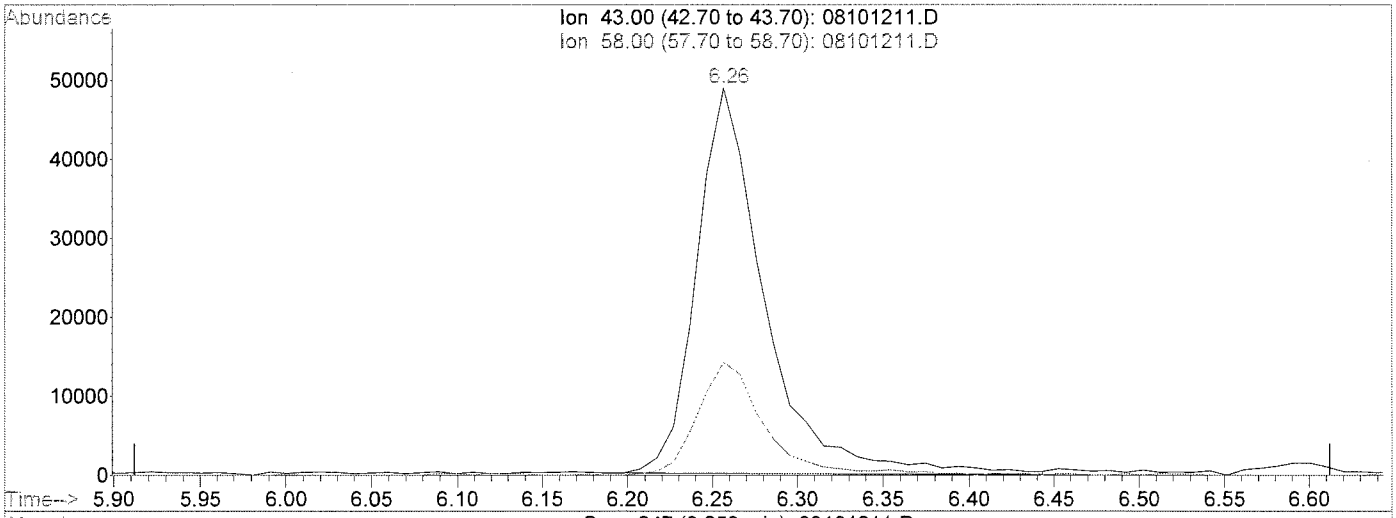
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

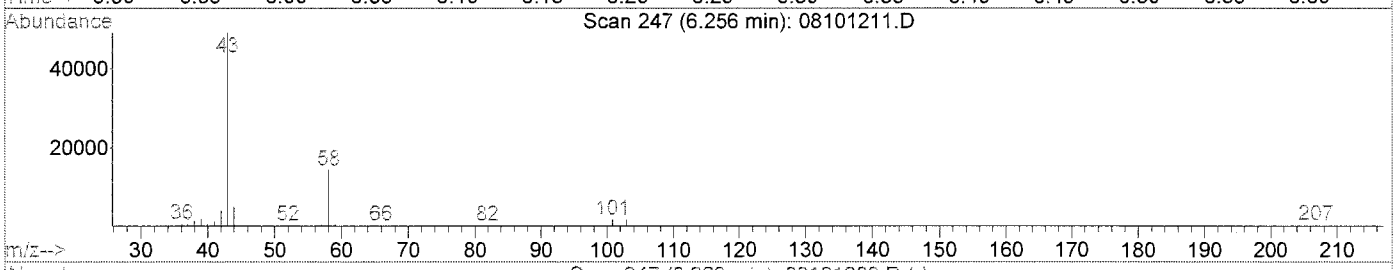


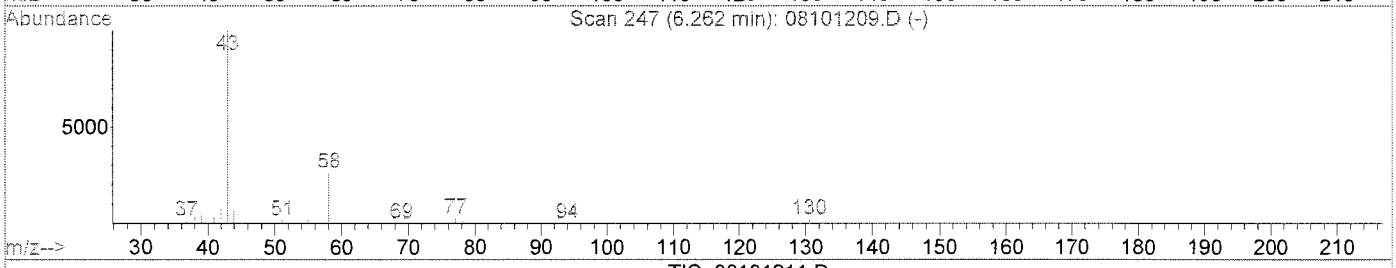
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 119.31ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

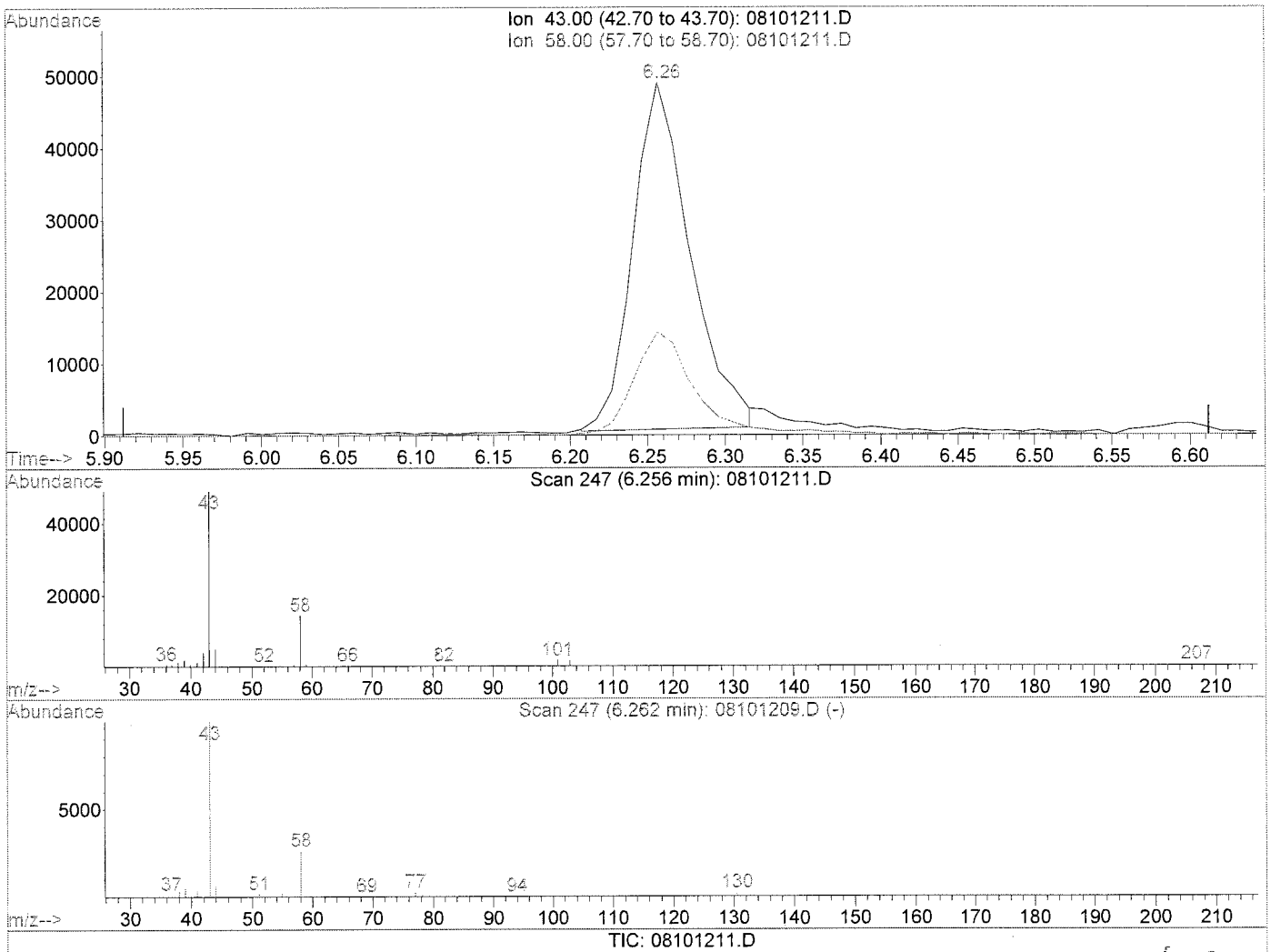
8/13/12

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.26min 107.84ug/L m

response 123668

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.93
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	97.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 388.20%	
48) Toluene-d8	13.33	98	1402084	92.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 369.12%	
62) 4-Bromofluorobenzene	16.96	95	412368	97.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 391.64%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	1066.46 ug/L	82
3) tert-Butanol (TBA)	6.84	59	168336	480.39 ug/L	99
5) Dichlorodifluoromethane	4.11	85	964320	96.48 ug/L	99
6) Chloromethane	4.35	50	890682	91.56 ug/L	100
7) Vinyl Chloride	4.63	62	798541	89.71 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	95.97 ug/L	99
9) Bromomethane	5.18	94	525441	96.65 ug/L	100
10) Chloroethane	5.38	64	441624	100.03 ug/L	99
11) Trichlorofluoromethane	6.11	101	763247	97.00 ug/L	99
12) Acetone	6.26	43	123668m	107.84 ug/L	
13) Iodomethane	6.87	142	901113	97.99 ug/L	98
14) 1,1-Dichloroethene	6.81	96	508761	92.90 ug/L	97
15) Methylene Chloride	7.00	84	470851	96.56 ug/L	99
16) Freon 113	7.07	101	528427	93.16 ug/L	97
17) Carbon disulfide	7.30	76	1756954	98.64 ug/L	97
18) trans-1,2-Dichloroethene	7.86	96	597492	94.07 ug/L	98
19) MTBE	8.01	73	913608	101.74 ug/L	100
20) 1,1-Dichloroethane	8.18	63	943450	95.66 ug/L	99
21) Vinyl Acetate	8.34	43	745936	106.70 ug/L	100
22) n-Hexane	8.69	86	148544	95.28 ug/L	92
23) 2-Butanone (MEK)	8.73	72	42692	108.81 ug/L #	68
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	98.54 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	568187	98.27 ug/L	97
26) Bromochloromethane	9.12	128	236072	102.86 ug/L	91
27) Chloroform	9.18	83	844569	97.89 ug/L	98
28) 2,2-Dichloropropane	9.28	77	597220	91.44 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	100.10 ug/L	99
31) Tetrahydrofuran	9.60	72	36606	102.58 ug/L	84
32) 1,2-Dichloroethane	10.01	62	408116	98.06 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	706415	97.76 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	105.21 ug/L	99
36) 1,1-Dichloropropene	10.38	75	752175	91.42 ug/L	99
37) Carbon Tetrachloride	10.61	117	629787	97.64 ug/L	99
38) Benzene	10.66	78	1918047	97.70 ug/L	99
39) Dibromomethane	11.39	93	240215	103.65 ug/L	98
40) 1,2-Dichloropropane	11.44	63	454008	97.06 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	523897	95.19 ug/L	99
42)	Bromodichloromethane	11.55	83	571821	106.22 ug/L	99
43)	2-Chlorovinylethylether	12.09	63	190358	107.67 ug/L	99
44)	cis-1,3-Dichloropropene	12.38	75	663914	105.77 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	104.38 ug/L	98
46)	trans-1,3-Dichloropropene	12.95	75	509355	106.70 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	286704	105.34 ug/L	98
49)	Toluene	13.43	92	1076337	96.40 ug/L	98
51)	1,3-Dichloropropane	13.49	76	517001	106.83 ug/L	99
52)	2-Hexanone	13.68	43	235539	116.44 ug/L	97
53)	Dibromochloromethane	13.85	129	396223	112.92 ug/L	99
54)	1,2-Dibromoethane	14.18	107	308443	104.89 ug/L	98
55)	Tetrachloroethene	14.41	164	452394	94.22 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	96.65 ug/L	96
57)	Chlorobenzene	15.33	112	1118631	99.99 ug/L	99
58)	Ethylbenzene	15.58	91	1923271	98.42 ug/L	100
59)	m,p-Xylenes	15.85	106	762608	102.28 ug/L	98
60)	Styrene	16.30	104	1032436	103.40 ug/L	99
61)	o-Xylene	16.40	106	651161	94.50 ug/L	98
64)	Bromoform	16.01	173	219950	111.30 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	98.23 ug/L	98
66)	1,2,3-Trichloropropane	16.59	110	78214	105.23 ug/L	98
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	102.10 ug/L	91
68)	Isopropylbenzene	16.90	105	1628971	95.00 ug/L	99
69)	Bromobenzene	17.24	156	425714	101.89 ug/L	97
70)	n-Propylbenzene	17.51	91	2114087	97.12 ug/L	100
71)	2-Chlorotoluene	17.65	91	1126734	95.74 ug/L	100
72)	4-Chlorotoluene	17.75	91	1125554	97.79 ug/L	99
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	92.30 ug/L	100
74)	tert-Butylbenzene	18.31	119	1083175	90.69 ug/L	99
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	92.98 ug/L	100
76)	sec-Butylbenzene	18.61	105	1705621	88.25 ug/L	99
77)	1,3-Dichlorobenzene	18.72	146	699081	91.94 ug/L	98
78)	1,4-Dichlorobenzene	18.82	146	702424	94.23 ug/L	99
79)	p-Isopropyltoluene	18.86	119	1317395	90.97 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	538352	86.95 ug/L	99
81)	n-Butylbenzene	19.40	91	1266655	91.21 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	90.22 ug/L	93
83)	1,2,4-Trichlorobenzene	21.50	180	271631	81.83 ug/L	98
84)	Napthalene	21.83	128	441804	83.19 ug/L	99
85)	Hexachlorobutadiene	21.89	225	166042	82.73 ug/L	96
86)	1,2,3-Trichlorobenzene	22.08	180	218534	91.95 ug/L	96

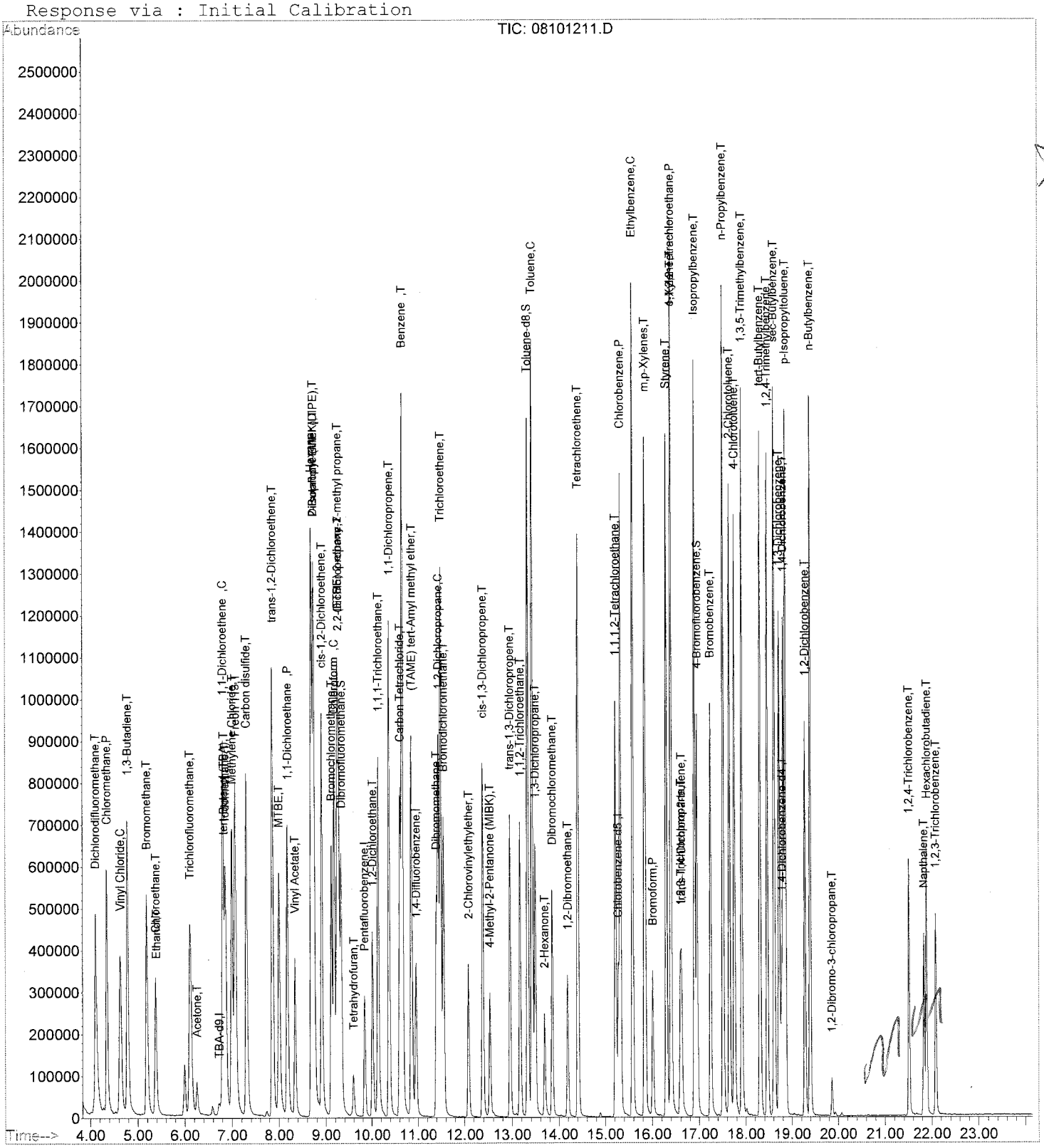
MM

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

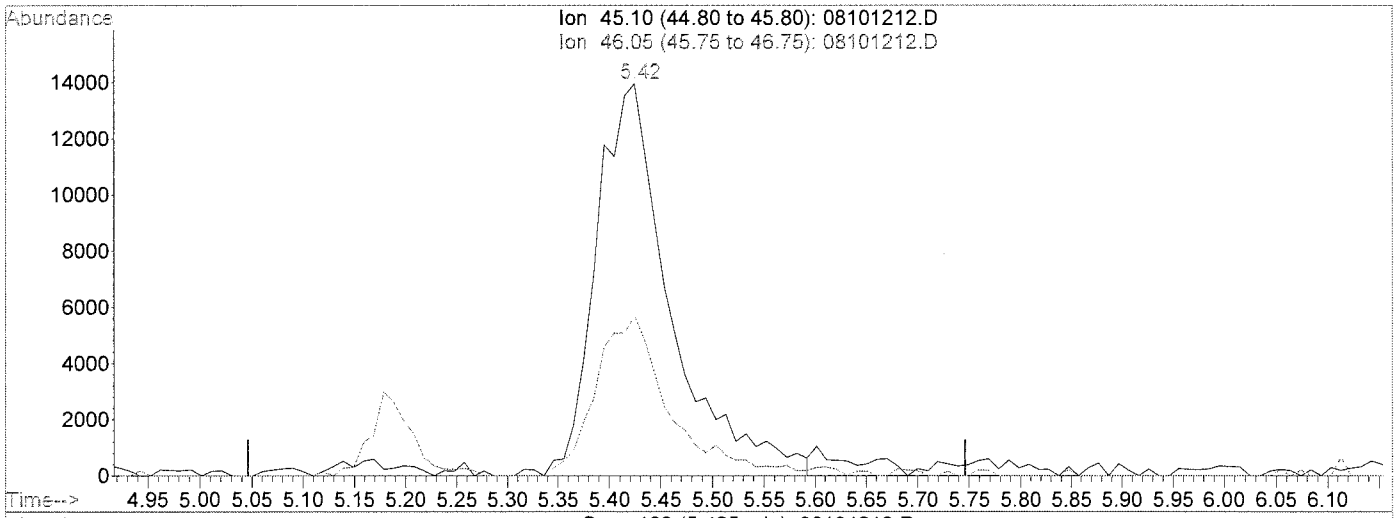


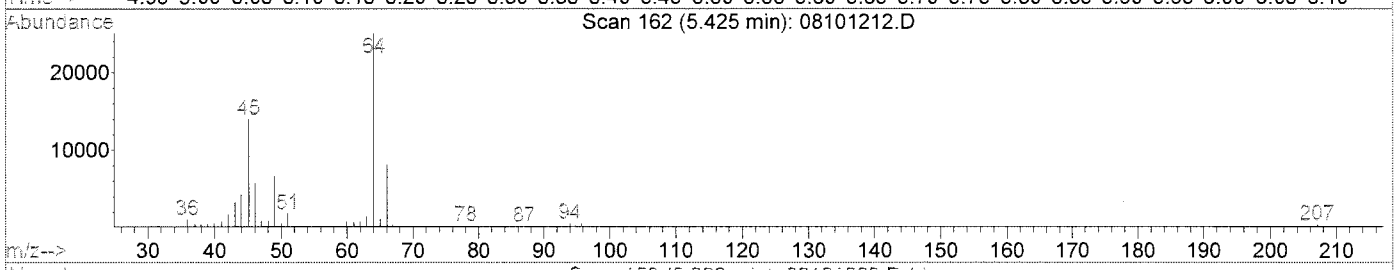
08101211.D 081012.M Mon Aug 13 05:27:39 2012

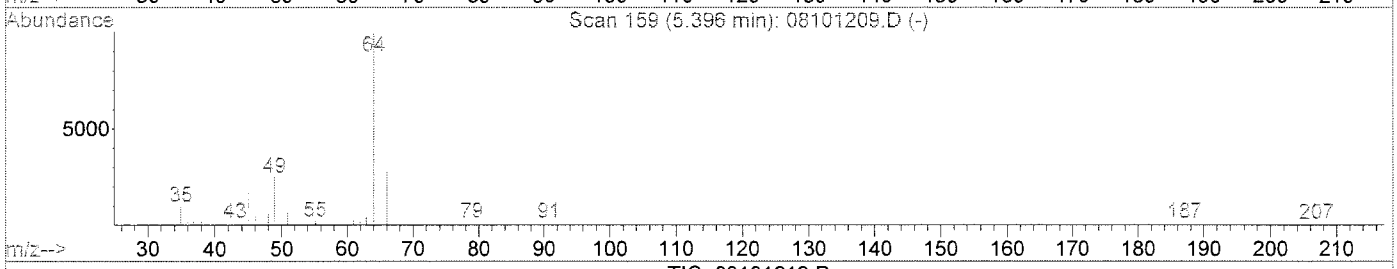
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2703.85ug/L

response 70076

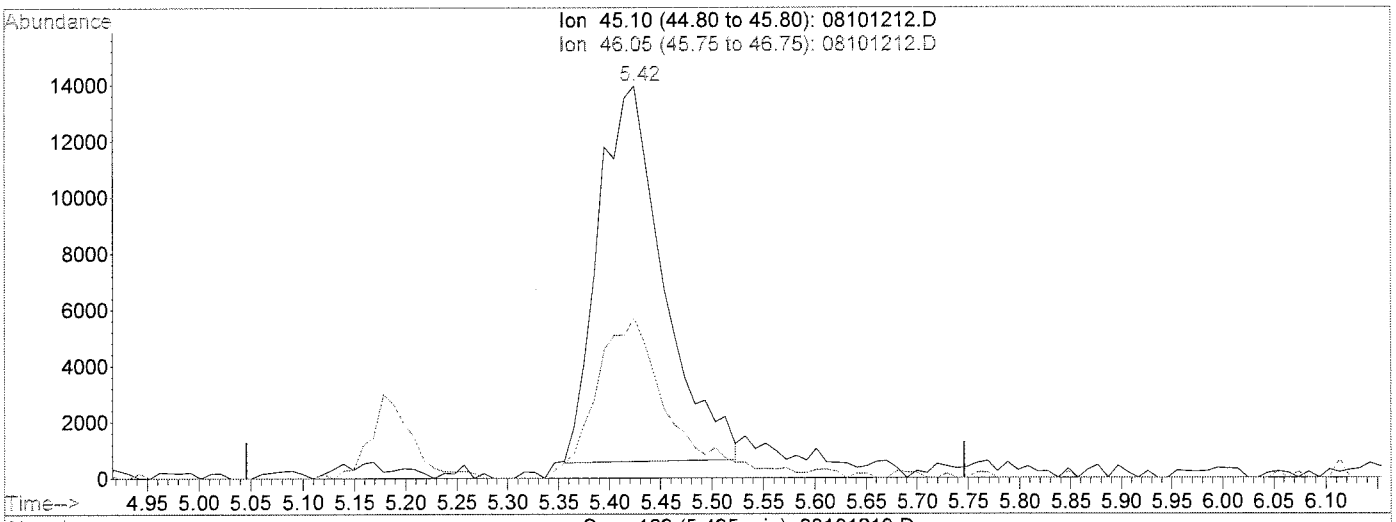
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	40.18
0.00	0.00	0.00
0.00	0.00	0.00

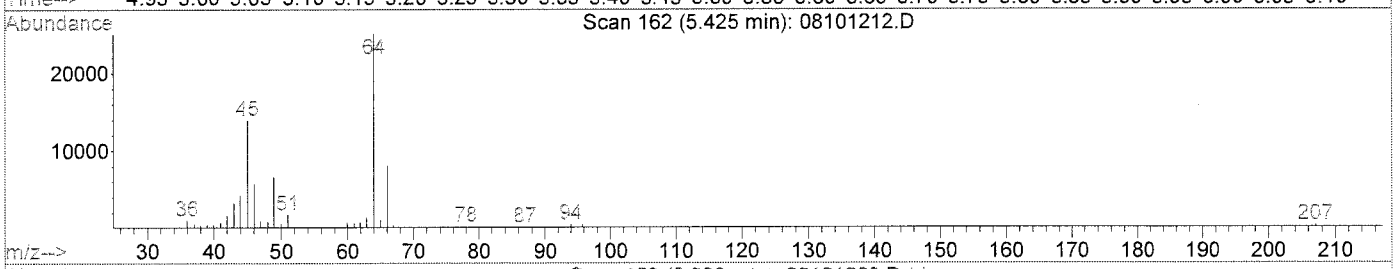
BL
MM 8/13/12

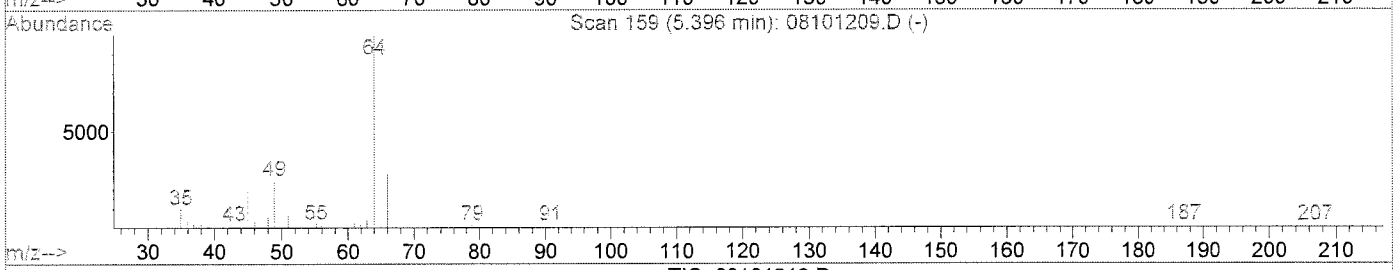
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2281.93ug/L m

response 59141

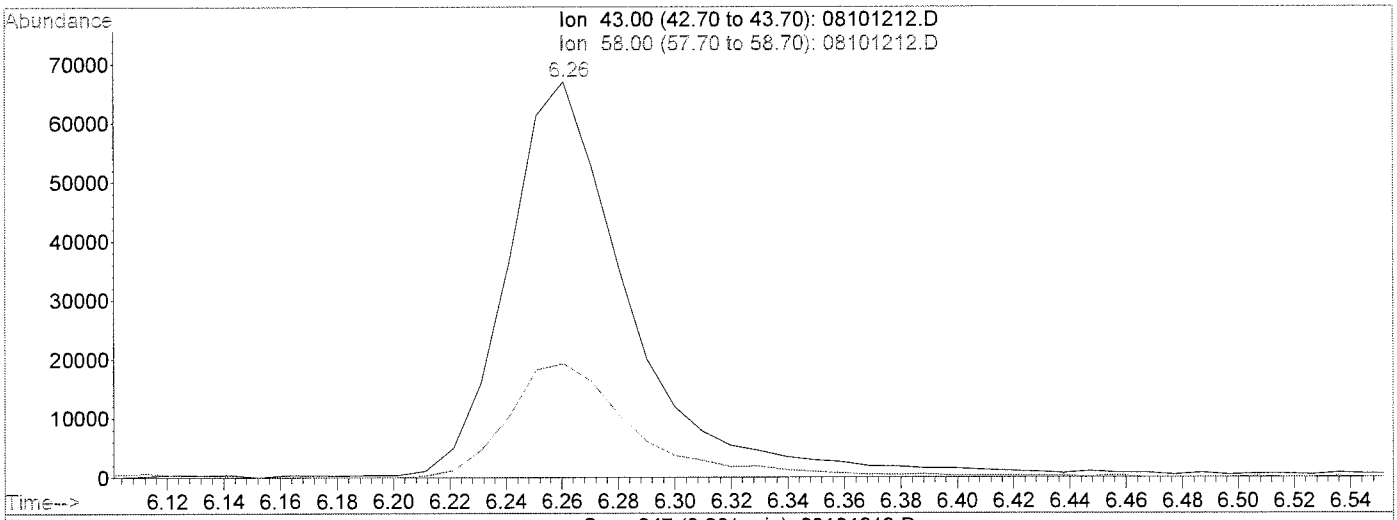
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	47.60
0.00	0.00	0.00
0.00	0.00	0.00

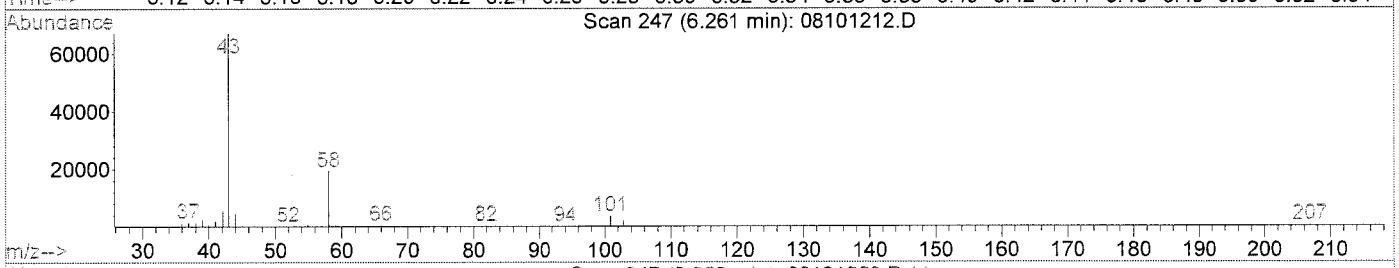
MNM 8/13/12

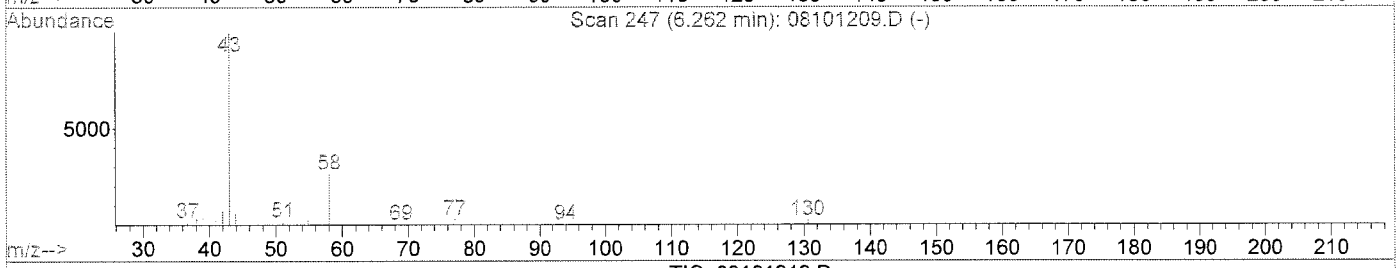
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(12) Acetone (T)

6.26min 184.35ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.87
0.00	0.00	0.00
0.00	0.00	0.00

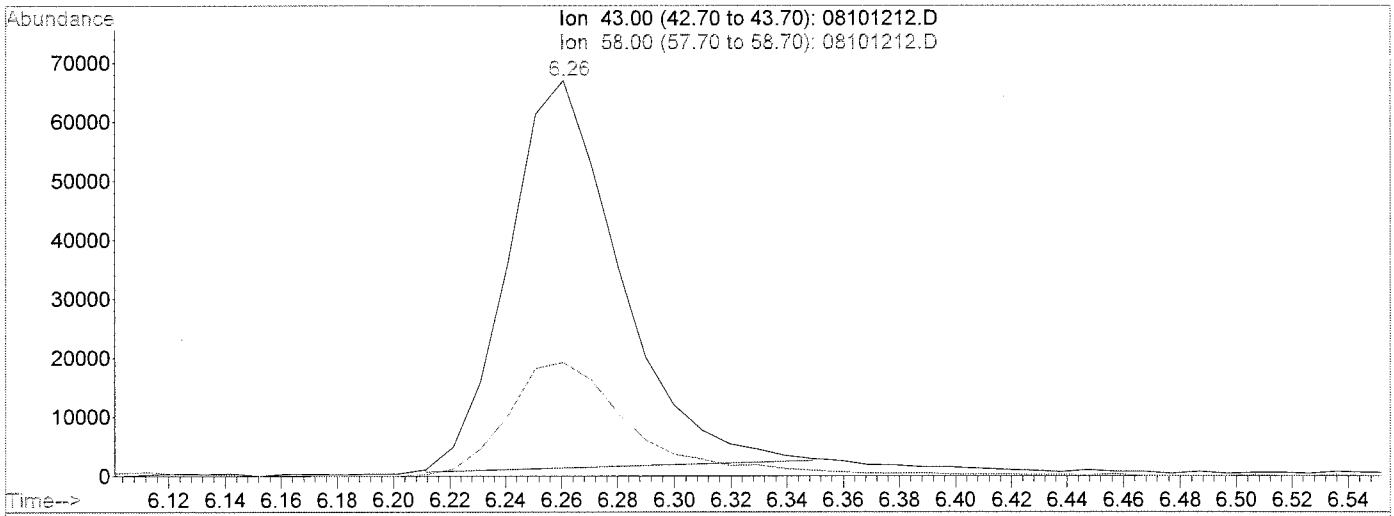
8/13/12

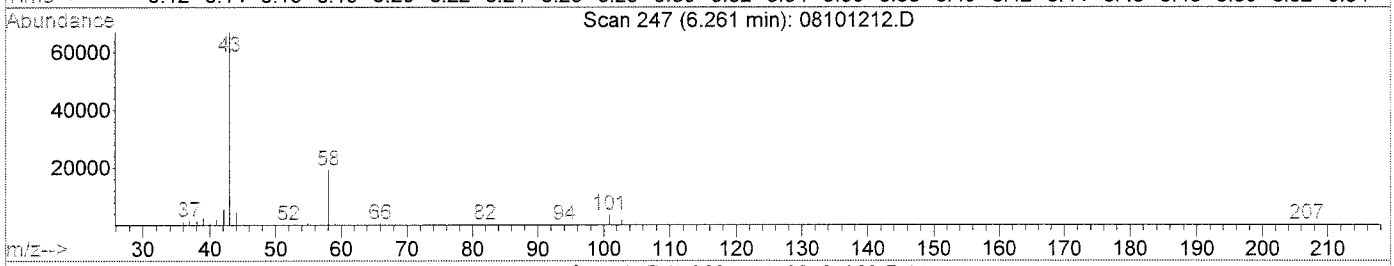
MNM 8/13/12

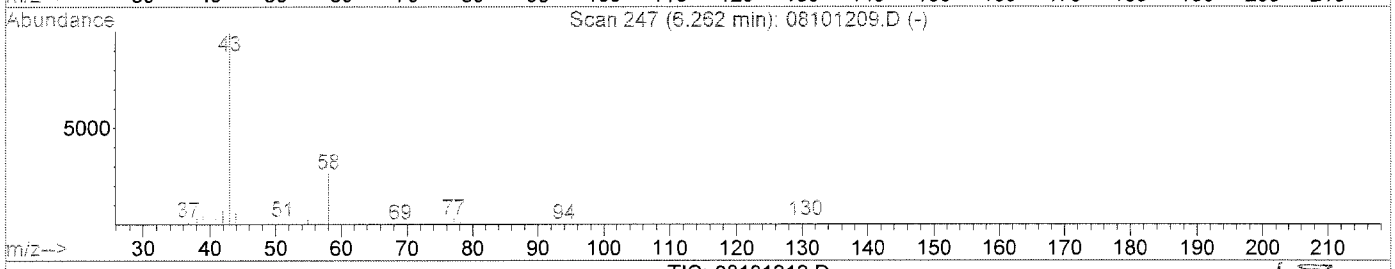
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 163.38ug/L m

response 180852

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.70
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	201.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 804.64%	
48) Toluene-d8	13.33	98	2766585	192.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 771.04%	
62) 4-Bromofluorobenzene	16.96	95	772758	192.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 769.04%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59141m	2281.93 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1073.03 ug/L	98
5) Dichlorodifluoromethane	4.12	85	1798928	186.45 ug/L	99
6) Chloromethane	4.35	50	1637264	174.37 ug/L	99
7) Vinyl Chloride	4.62	62	1314614	152.99 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	185.70 ug/L	100
9) Bromomethane	5.19	94	991158	188.88 ug/L	100
10) Chloroethane	5.38	64	798291	187.32 ug/L	99
11) Trichlorofluoromethane	6.11	101	1442227	189.88 ug/L	99
12) Acetone	6.26	43	180852m	163.38 ug/L	
13) Iodomethane	6.86	142	1691791	190.58 ug/L	98
14) 1,1-Dichloroethene	6.80	96	959183	181.45 ug/L	97
15) Methylene Chloride	7.00	84	866879	184.17 ug/L	98
16) Freon 113	7.07	101	1005834	183.70 ug/L	96
17) Carbon disulfide	7.30	76	3351895	194.95 ug/L	98
18) trans-1,2-Dichloroethene	7.86	96	1151435	187.81 ug/L	98
19) MTBE	8.00	73	1705610	196.77 ug/L	100
20) 1,1-Dichloroethane	8.18	63	1809927	190.12 ug/L	100
21) Vinyl Acetate	8.34	43	1413743	209.50 ug/L	99
22) n-Hexane	8.69	86	285278	189.57 ug/L	88
23) 2-Butanone (MEK)	8.72	72	74546	196.84 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	192.93 ug/L	98
25) cis-1,2-Dichloroethene	8.92	96	1089239	195.17 ug/L	97
26) Bromochloromethane	9.12	128	469231	211.82 ug/L	95
27) Chloroform	9.18	83	1657554	199.03 ug/L	98
28) 2,2-Dichloropropane	9.28	77	1146423	181.84 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	194.76 ug/L	98
31) Tetrahydrofuran	9.60	72	68814	199.78 ug/L	84
32) 1,2-Dichloroethane	10.02	62	794737	197.82 ug/L	99
33) 1,1,1-Trichloroethane	10.15	97	1389872	199.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	197.49 ug/L	98
36) 1,1-Dichloropropene	10.38	75	1491816	191.94 ug/L	99
37) Carbon Tetrachloride	10.61	117	1253531	205.72 ug/L	99
38) Benzene	10.67	78	3652383	196.95 ug/L	99
39) Dibromomethane	11.40	93	460678	210.41 ug/L	99
40) 1,2-Dichloropropane	11.43	63	868011	196.44 ug/L	98

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	197.15 ug/L		98
42)	Bromodichloromethane	11.55	83	1076186	211.61 ug/L		100
43)	2-Chlorovinylethylether	12.09	63	356836	213.66 ug/L		99
44)	cis-1,3-Dichloropropene	12.39	75	1241936	209.44 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	196.96 ug/L		99
46)	trans-1,3-Dichloropropene	12.96	75	974996	216.21 ug/L		99
47)	1,1,2-Trichloroethane	13.18	97	546786	212.67 ug/L		97
49)	Toluene	13.42	92	2055027	194.84 ug/L		97
51)	1,3-Dichloropropane	13.49	76	938228	203.14 ug/L		99
52)	2-Hexanone	13.69	43	386586	200.24 ug/L		97
53)	Dibromochloromethane	13.85	129	760108	226.98 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	209.84 ug/L		99
55)	Tetrachloroethene	14.41	164	884667	193.06 ug/L		99
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	199.87 ug/L		98
57)	Chlorobenzene	15.33	112	2070815	193.94 ug/L		99
58)	Ethylbenzene	15.59	91	3553977	190.55 ug/L		98
59)	m,p-Xylenes	15.85	106	1442112	202.66 ug/L		96
60)	Styrene	16.30	104	1948462	204.46 ug/L		100
61)	o-Xylene	16.40	106	1266882	192.63 ug/L		95
64)	Bromoform	16.02	173	438702	258.97 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	199.73 ug/L		99
66)	1,2,3-Trichloropropane	16.60	110	133888	210.15 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	205.50 ug/L	#	86
68)	Isopropylbenzene	16.90	105	3024067	205.74 ug/L		97
69)	Bromobenzene	17.25	156	802086	223.96 ug/L		97
70)	n-Propylbenzene	17.51	91	3823645	204.92 ug/L		98
71)	2-Chlorotoluene	17.65	91	2041028	202.31 ug/L		100
72)	4-Chlorotoluene	17.76	91	2058362	208.62 ug/L		100
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	199.53 ug/L		99
74)	tert-Butylbenzene	18.31	119	1933954	188.89 ug/L		99
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	196.17 ug/L		99
76)	sec-Butylbenzene	18.62	105	3047825	183.96 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	1267811	194.51 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	1231960	192.79 ug/L		98
79)	p-Isopropyltoluene	18.86	119	2345916	188.97 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	944274	177.93 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	182.58 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	206.53 ug/L		87
83)	1,2,4-Trichlorobenzene	21.51	180	455405	160.04 ug/L		98
84)	Napthalene	21.83	128	697402	153.20 ug/L		99
85)	Hexachlorobutadiene	21.89	225	262810	226.56 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	329008	207.52 ug/L		96

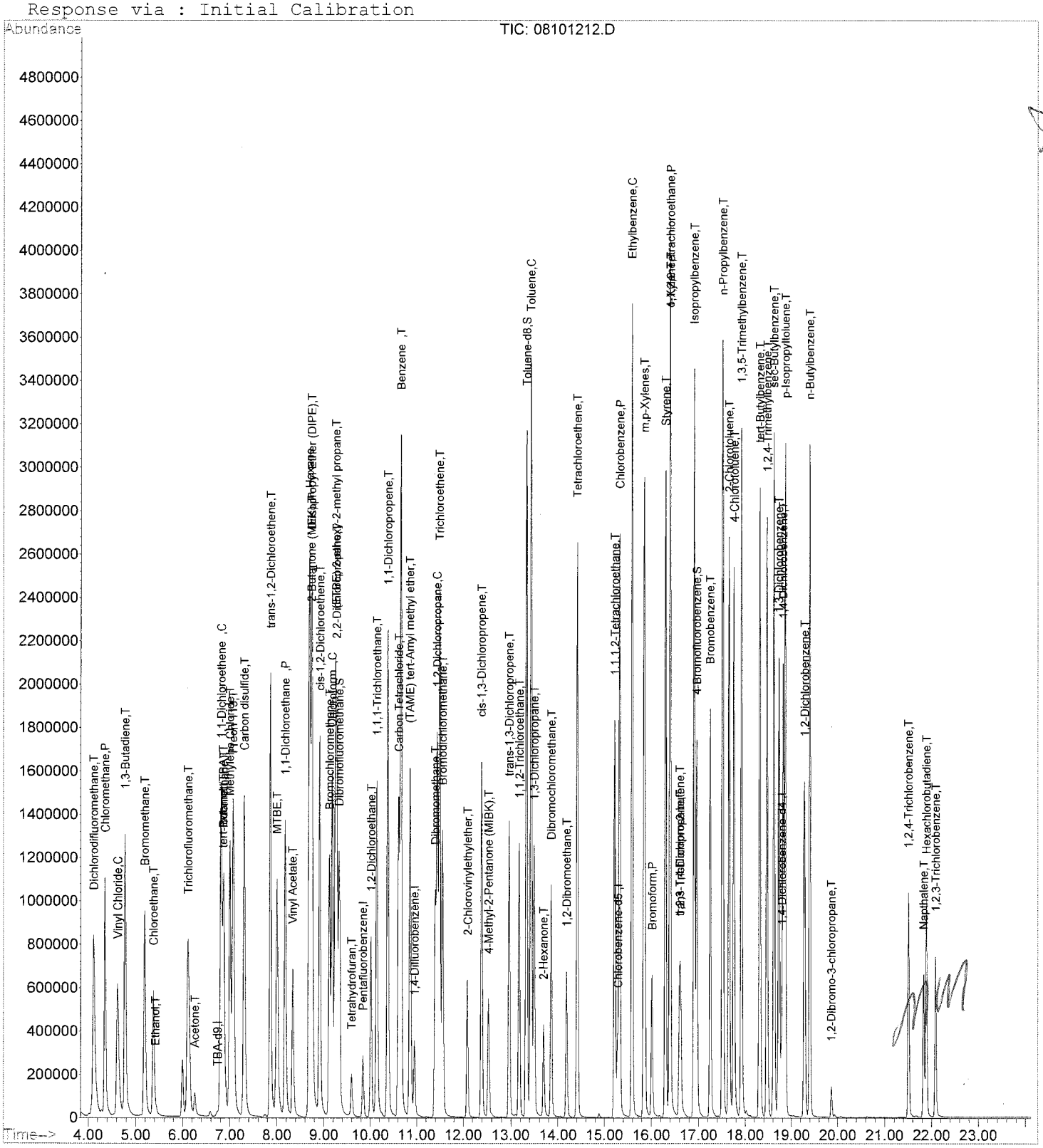
MM

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



624 CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F
2)	Ethanol	300.95	250	120.38	36	150	TRUE
3)	tert-Butanol (TBA)	153.29	125	122.64	70	134	TRUE
5)	Dichlorodifluoromethane	20.10	25	80.41	60	140	TRUE
6)	Chloromethane	24.20	25	96.79	0	204	TRUE
7)	Vinyl Chloride	25.13	25	100.54	4	196	TRUE
8)	1,3-Butadiene	38.03	25	152.10	50	141	FALSE NI
9)	Bromomethane	24.67	25	98.67	14	186	TRUE
10)	Chloroethane	24.83	25	99.30	38	162	TRUE
11)	Trichlorofluoromethane	25.82	25	103.27	48	152	TRUE
12)	Acetone	26.55	25	106.18	12	150	TRUE
13)	Iodomethane	26.45	25	105.80	40	150	TRUE
14)	1,1-Dichloroethene	23.27	25	93.10	50	150	TRUE
15)	Methylene Chloride	23.80	25	95.18	60	140	TRUE
16)	Freon 113	24.41	25	97.63	76	124	TRUE
17)	Carbon disulfide	26.18	25	104.72	64	136	TRUE
18)	trans-1,2-Dichloroethene	23.89	25	95.55	70	130	TRUE
19)	MTBE	23.56	25	94.24	64	140	TRUE
20)	1,1-Dichloroethane	23.84	25	95.36	72	128	TRUE
21)	Vinyl Acetate	28.25	25	112.98	48	150	TRUE
22)	n-Hexane	22.51	25	90.04	56	150	TRUE
23)	2-Butanone (MEK)	25.12	25	100.48	44	150	TRUE
24)	Diisopropyl Ether (DIPE)	23.73	25	94.92	72	132	TRUE
25)	cis-1,2-Dichloroethene	24.69	25	98.76	72	128	TRUE
26)	Bromochloromethane	23.74	25	94.96	72	132	TRUE
27)	Chloroform	23.45	25	93.78	68	132	TRUE
28)	2,2-Dichloropropane	23.74	25	94.98	64	140	TRUE
29)	(ETBE) 2-ethoxy-2-methyl propan	22.20	25	88.79	72	140	TRUE
30)	**Dibromofluoromethane**	**25.41**	25	101.66	80	120	**TRUE**
31)	Tetrahydrofuran	24.22	25	96.88	64	139	TRUE
32)	1,2-Dichloroethane	25.30	25	101.21	68	132	TRUE
33)	1,1,1-Trichloroethane	24.27	25	97.08	75	125	TRUE
34)	(TAME) tert-Amyl methyl ether	24.10	25	96.39	68	140	TRUE
36)	1,1-Dichloropropene	23.93	25	95.73	76	128	TRUE
37)	Carbon Tetrachloride	24.31	25	97.26	73	127	TRUE
38)	Benzene	24.82	25	99.27	64	136	TRUE

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39)	Dibromomethane	24.98	25	99.92	72	132	TRUE
40)	1,2-Dichloropropane	23.49	25	93.96	34	166	TRUE
41)	Trichloroethene	23.76	25	95.04	66	133	TRUE
42)	Bromodichloromethane	25.13	25	100.53	66	134	TRUE
43)	2-Chlorovinylethylether	25.34	25	101.37	0	224	TRUE
44)	cis-1,3-Dichloropropene	25.16	25	100.65	24	176	TRUE
45)	4-Methyl-2-Pentanone (MIBK)	26.85	25	107.40	60	144	TRUE
46)	trans-1,3-Dichloropropene	25.25	25	101.01	50	150	TRUE
47)	1,1,2-Trichloroethane	25.95	25	103.82	71	129	TRUE
48)	**Toluene-d8**	**24.62**	25	98.47	80	120	**TRUE**
49)	Toluene	24.90	25	99.58	74	126	TRUE
51)	1,3-Dichloropropane	25.40	25	101.59	80	124	TRUE
52)	2-Hexanone	26.85	25	107.40	52	150	TRUE
53)	Dibromochloromethane	24.64	25	98.56	68	132	TRUE
54)	1,2-Dibromoethane	24.98	25	99.93	80	128	TRUE
55)	Tetrachloroethene	22.60	25	90.40	74	126	TRUE
56)	1,1,1,2-Tetrachloroethane	23.23	25	92.90	76	124	TRUE
57)	Chlorobenzene	23.54	25	94.14	66	134	TRUE
58)	Ethylbenzene	25.07	25	100.26	59	141	TRUE
59)	m,p-Xylenes	24.18	25	96.72	80	120	TRUE
60)	Styrene	24.75	25	98.98	84	124	TRUE
61)	o-Xylene	23.64	25	94.54	72	128	TRUE
62)	**4-Bromofluorobenzene**	**26.12**	25	104.48	80	120	**TRUE**
64)	Bromoform	25.45	25	101.80	71	129	TRUE
65)	1,1,2,2-Tetrachloroethane	26.77	25	107.09	61	140	TRUE
66)	1,2,3-Trichloropropane	25.76	25	103.05	76	128	TRUE
67)	trans-1,4-Dichloro-2-butene	21.70	25	86.80	48	138	TRUE
68)	Isopropylbenzene	26.26	25	105.06	76	132	TRUE
69)	Bromobenzene	24.25	25	96.98	76	128	TRUE
70)	n-Propylbenzene	24.96	25	99.84	76	132	TRUE
71)	2-Chlorotoluene	24.53	25	98.10	80	124	TRUE
72)	4-Chlorotoluene	23.93	25	95.74	80	124	TRUE
73)	1,3,5-Trimethylbenzene	24.02	25	96.08	80	128	TRUE
74)	tert-Butylbenzene	24.77	25	99.08	76	132	TRUE
75)	1,2,4-Trimethylbenzene	24.49	25	97.94	80	128	TRUE
76)	sec-Butylbenzene	24.19	25	96.77	80	128	TRUE
77)	1,3-Dichlorobenzene	24.21	25	96.86	73	127	TRUE
78)	1,4-Dichlorobenzene	23.21	25	92.83	63	137	TRUE
79)	p-Isopropyltoluene	24.67	25	98.70	80	128	TRUE
80)	1,2-Dichlorobenzene	23.88	25	95.53	63	137	TRUE
81)	n-Butylbenzene	25.43	25	101.74	76	132	TRUE
82)	1,2-Dibromo-3-chloropropane	30.65	25	122.61	64	128	TRUE
83)	1,2,4-Trichlorobenzene	26.52	25	106.10	76	128	TRUE
84)	Napthalene	28.97	25	115.87	68	136	TRUE
85)	Hexachlorobutadiene	26.88	25	107.52	76	132	TRUE
86)	1,2,3-Trichlorobenzene	27.16	25	108.62	72	128	TRUE

MM

8260 CCV/ICV CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	300.95	250	120%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	153.29	125	123%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	20.10	25	80%	60%	140%	TRUE	
6)	Chloromethane	24.20	25	97%	48%	144%	TRUE	
7)	Vinyl Chloride	25.13	25	101%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	38.03	25	152%	50%	141%	FALSE	NA
9)	Bromomethane	24.67	25	99%	40%	144%	TRUE	
10)	Chloroethane	24.83	25	99%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.82	25	103%	68%	136%	TRUE	
12)	Acetone	26.55	25	106%	12%	150%	TRUE	
13)	Iodomethane	26.45	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	23.27	25	93%	80%	120%	TRUE	CCC
15)	Methylene Chloride	23.80	25	95%	68%	128%	TRUE	
16)	Freon 113	24.41	25	98%	76%	124%	TRUE	
17)	Carbon disulfide	26.18	25	105%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	23.89	25	96%	76%	120%	TRUE	
19)	MTBE	23.56	25	94%	64%	140%	TRUE	
20)	1,1-Dichloroethane	23.84	25	95%	72%	124%	TRUE	
21)	Vinyl Acetate	28.25	25	113%	48%	150%	TRUE	
22)	n-Hexane	22.51	25	90%	56%	150%	TRUE	
23)	2-Butanone (MEK)	25.12	25	100%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	23.73	25	95%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.69	25	99%	72%	128%	TRUE	
26)	Bromochloromethane	23.74	25	95%	72%	132%	TRUE	
27)	Chloroform	23.45	25	94%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	23.74	25	95%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	22.20	25	89%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.41**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	24.22	25	97%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.30	25	101%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	24.27	25	97%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	24.10	25	96%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.93	25	96%	76%	128%	TRUE	
37)	Carbon Tetrachloride	24.31	25	97%	72%	136%	TRUE	
38)	Benzene	24.82	25	99%	76%	120%	TRUE	

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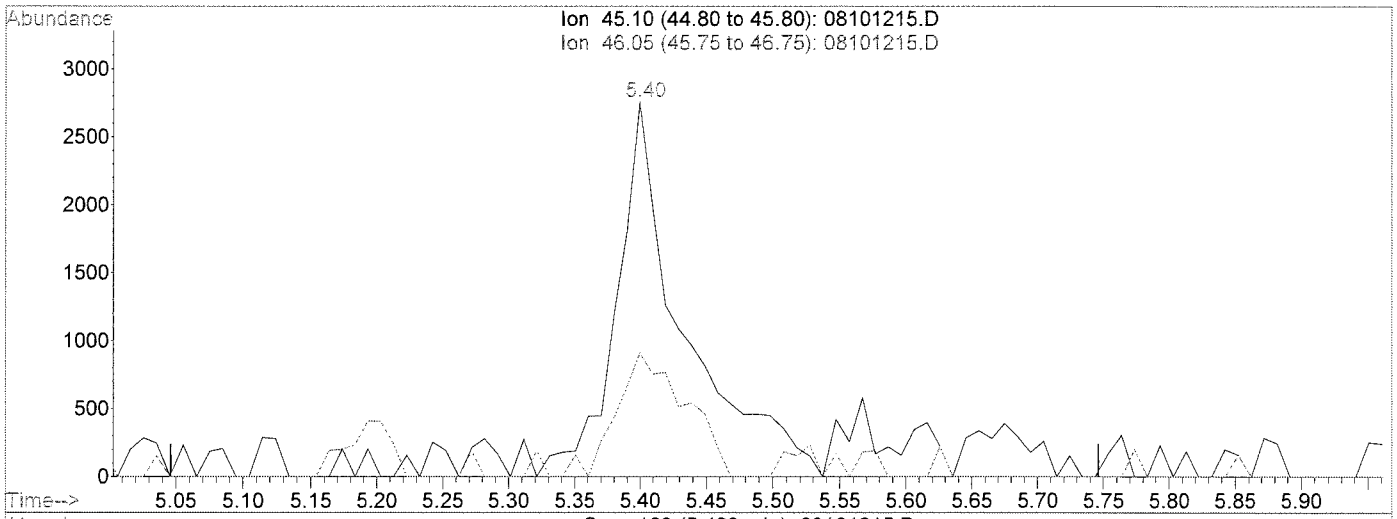
39) Dibromomethane	24.98	25	100%	72%	132%	TRUE	
40) 1,2-Dichloropropane	23.49	25	94%	80%	120%	TRUE	CCC
41) Trichloroethene	23.76	25	95%	80%	120%	TRUE	
42) Bromodichloromethane	25.13	25	101%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	25.34	25	101%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	25.16	25	101%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	25.25	25	101%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.95	25	104%	72%	132%	TRUE	
48) **Toluene-d8**	**24.62**	**25**	98%	80%	120%	**TRUE**	
49) Toluene	24.90	25	100%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	25.40	25	102%	80%	124%	TRUE	
52) 2-Hexanone	26.85	25	107%	52%	150%	TRUE	
53) Dibromochloromethane	24.64	25	99%	80%	128%	TRUE	
54) 1,2-Dibromoethane	24.98	25	100%	80%	128%	TRUE	
55) Tetrachloroethene	22.60	25	90%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	23.23	25	93%	76%	124%	TRUE	
57) Chlorobenzene	23.54	25	94%	80%	120%	TRUE	
58) Ethylbenzene	25.07	25	100%	80%	120%	TRUE	CCC
59) m,p-Xylenes	24.18	25	97%	80%	120%	TRUE	
60) Styrene	24.75	25	99%	84%	124%	TRUE	
61) o-Xylene	23.64	25	95%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**26.12**	**25**	104%	80%	120%	**TRUE**	
64) Bromoform	25.45	25	102%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.77	25	107%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	25.76	25	103%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	21.70	25	87%	48%	138%	TRUE	
68) Isopropylbenzene	26.26	25	105%	76%	132%	TRUE	
69) Bromobenzene	24.25	25	97%	76%	128%	TRUE	
70) n-Propylbenzene	24.96	25	100%	76%	132%	TRUE	
71) 2-Chlorotoluene	24.53	25	98%	80%	124%	TRUE	
72) 4-Chlorotoluene	23.93	25	96%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	24.02	25	96%	80%	128%	TRUE	
74) tert-Butylbenzene	24.77	25	99%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	24.49	25	98%	80%	128%	TRUE	
76) sec-Butylbenzene	24.19	25	97%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	23.21	25	93%	76%	120%	TRUE	
79) p-Isopropyltoluene	24.67	25	99%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	23.88	25	96%	80%	124%	TRUE	
81) n-Butylbenzene	25.43	25	102%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	30.65	25	123%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	26.52	25	106%	76%	128%	TRUE	
84) Napthalene	28.97	25	116%	68%	136%	TRUE	
85) Hexachlorobutadiene	26.88	25	108%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	27.16	25	109%	72%	128%	TRUE	

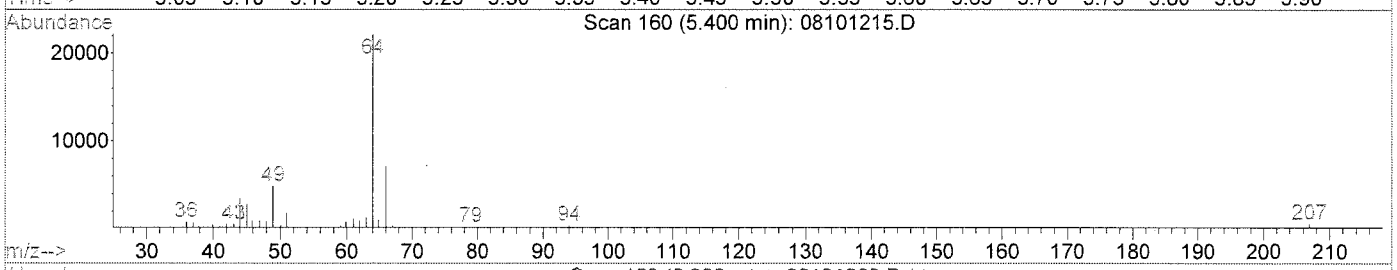
MM

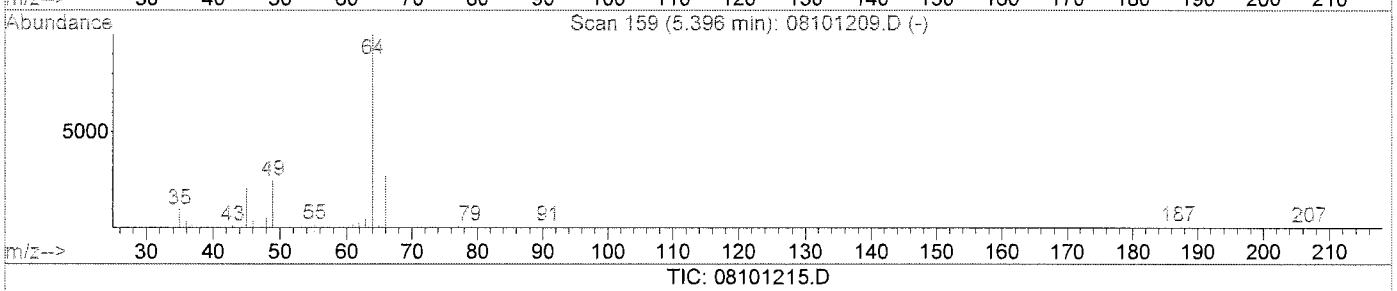
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(2) Ethanol (T)

5.40min 408.32ug/L

response 9735

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	34.49#
0.00	0.00	0.00
0.00	0.00	0.00

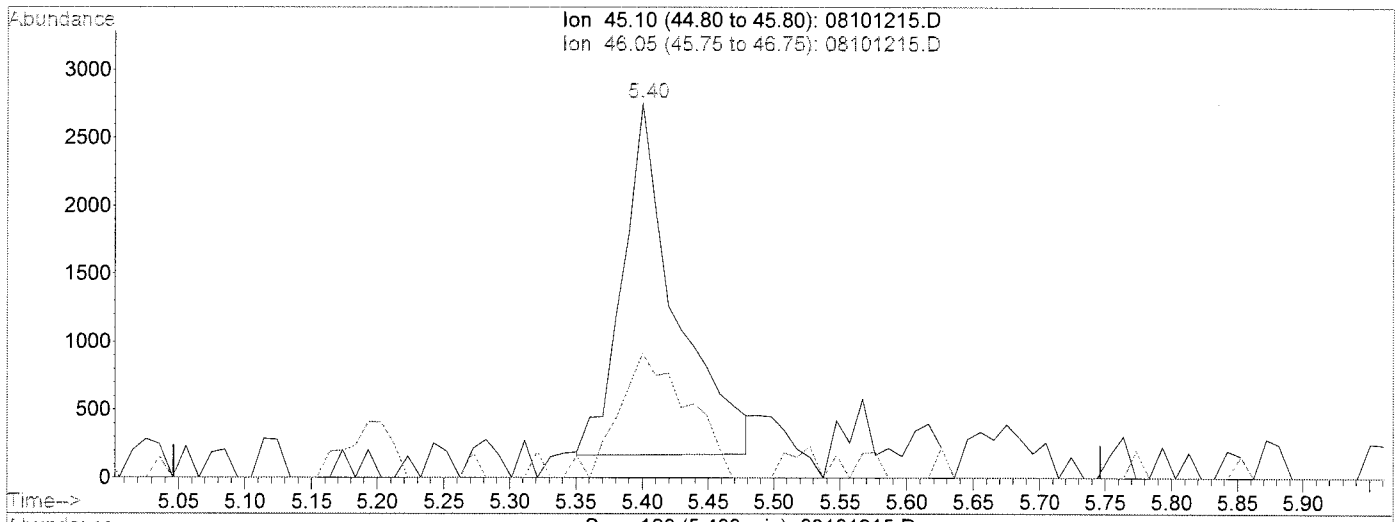
8/13/12

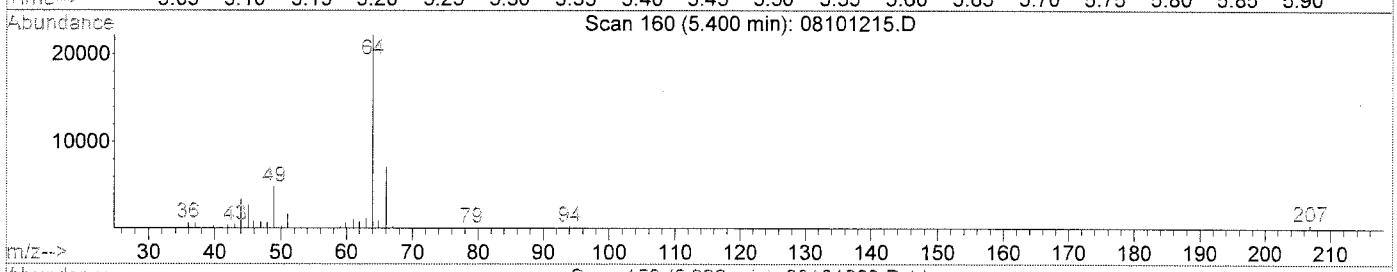
BL MNM 8/13/12

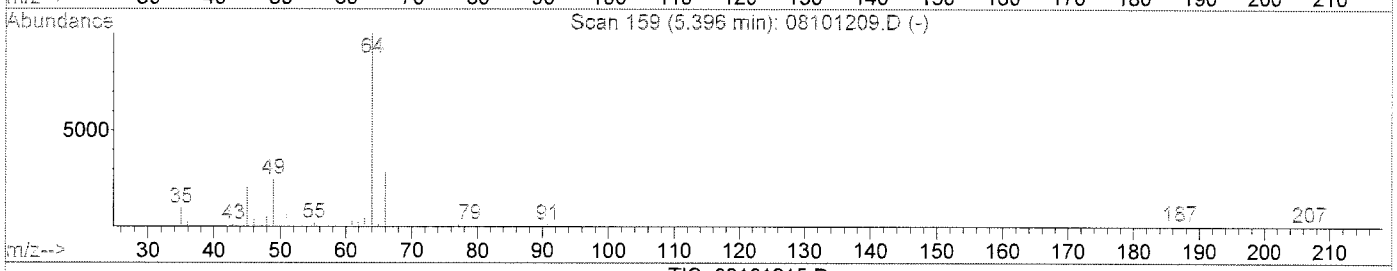
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(2) Ethanol (T)

5.40min 300.95ug/L m

response 7175

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	46.80
0.00	0.00	0.00
0.00	0.00	0.00

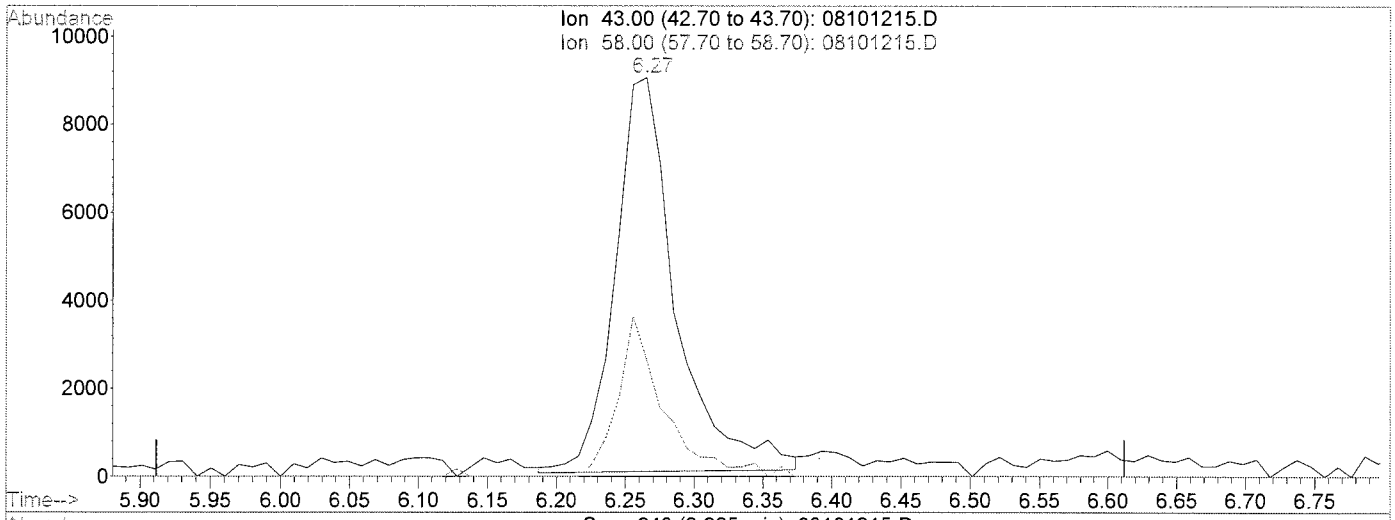
A

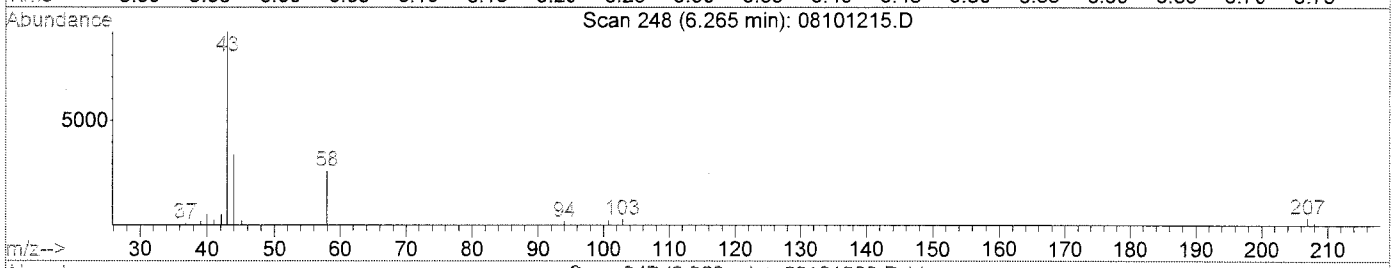
MM 8/13/12

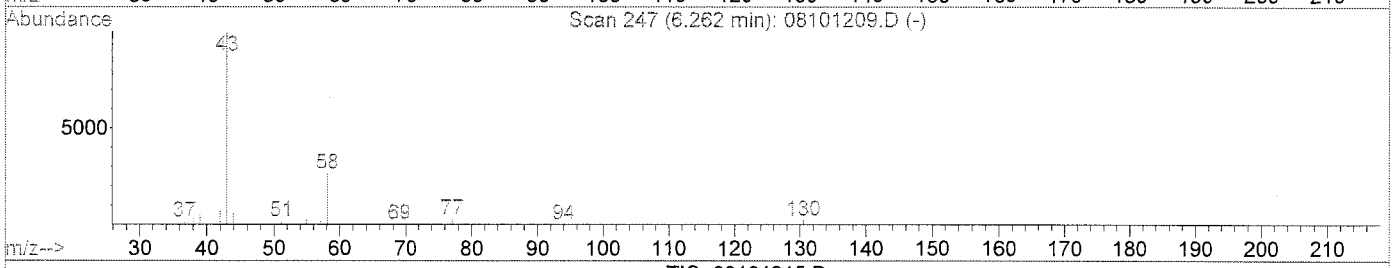
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(12) Acetone (T)

6.27min 30.06ug/L

response 27530

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.08
0.00	0.00	0.00
0.00	0.00	0.00

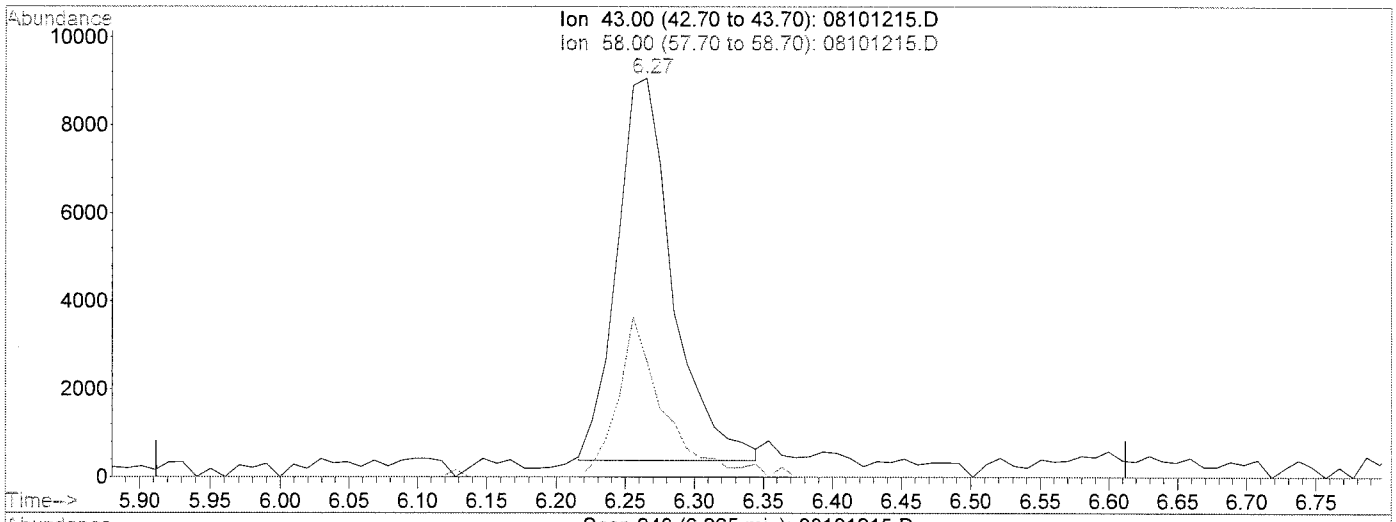
8/13/12

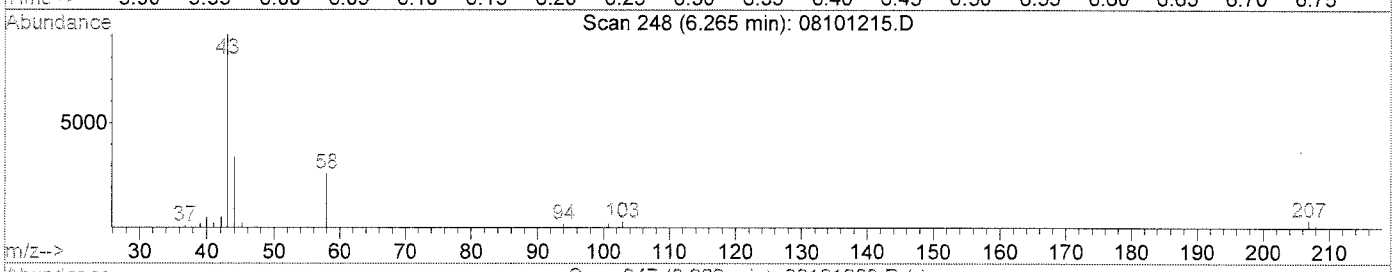
MNM 8/13/12

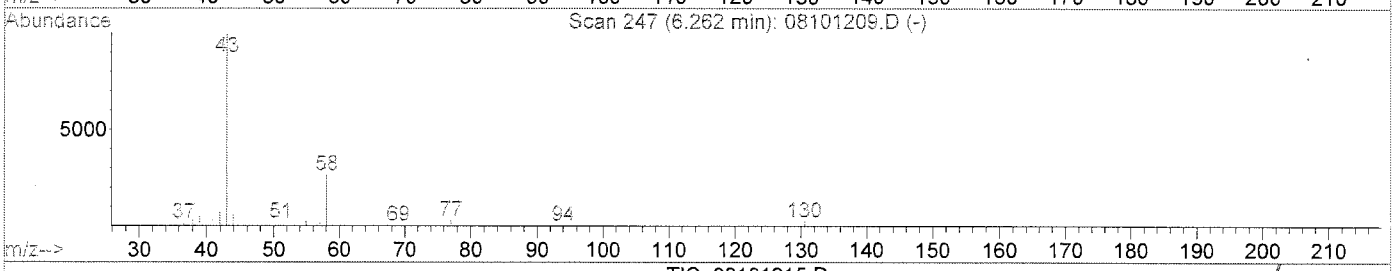
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(12) Acetone (T)

6.27min 26.55ug/L m

response 24311

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.19
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	44222	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	217542	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	306655	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.29	117	216631	25.00 ug/L	0.01
63) 1,4-Dichlorobenzene-d4	18.78	152	92262	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	96692	25.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.64%	
48) Toluene-d8	13.33	98	298127	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	
62) 4-Bromofluorobenzene	16.96	95	87439	26.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.48%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	7175m	300.95 ug/L	
3) tert-Butanol (TBA)	6.84	59	39654	153.29 ug/L	97
5) Dichlorodifluoromethane	4.12	85	160463	20.10 ug/L	98
6) Chloromethane	4.36	50	187967	24.20 ug/L	99
7) Vinyl Chloride	4.64	62	178677	25.13 ug/L	97
8) 1,3-Butadiene	4.79	54	146211	38.03 ug/L	97
9) Bromomethane	5.19	94	107095	24.67 ug/L	99
10) Chloroethane	5.38	64	87529	24.83 ug/L	99
11) Trichlorofluoromethane	6.12	101	162229	25.82 ug/L	98
12) Acetone	6.27	43	24311m	26.55 ug/L	
13) Iodomethane	6.87	142	194254	26.45 ug/L	97
14) 1,1-Dichloroethene	6.82	96	101788	23.27 ug/L	96
15) Methylene Chloride	7.00	84	92664	23.80 ug/L	97
16) Freon 113	7.07	101	110574	24.41 ug/L	98
17) Carbon disulfide	7.31	76	372407	26.18 ug/L	99
18) trans-1,2-Dichloroethene	7.87	96	121167	23.89 ug/L	98
19) MTBE	8.01	73	168955	23.56 ug/L	98
20) 1,1-Dichloroethane	8.18	63	187773	23.84 ug/L	99
21) Vinyl Acetate	8.35	43	157700	28.25 ug/L	99
22) n-Hexane	8.69	86	28024	22.51 ug/L	86
23) 2-Butanone (MEK)	8.73	72	7871	25.12 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.74	45	315525	23.73 ug/L #	64
25) cis-1,2-Dichloroethene	8.92	96	114002	24.69 ug/L	99
26) Bromochloromethane	9.13	128	43509	23.74 ug/L #	85
27) Chloroform	9.18	83	161542	23.45 ug/L #	95
28) 2,2-Dichloropropane	9.29	77	123852	23.74 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	213089	22.20 ug/L	100
31) Tetrahydrofuran	9.61	72	6902	24.22 ug/L	87
32) 1,2-Dichloroethane	10.02	62	84103	25.30 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	140057	24.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	186435	24.10 ug/L	99
36) 1,1-Dichloropropene	10.38	75	156952	23.93 ug/L	96
37) Carbon Tetrachloride	10.61	117	125008	24.31 ug/L	98
38) Benzene	10.67	78	388326	24.82 ug/L	99
39) Dibromomethane	11.40	93	46149	24.98 ug/L	98
40) 1,2-Dichloropropane	11.44	63	87576	23.49 ug/L	95

(#) = qualifier out of range (m) = manual integration

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	104225	23.76 ug/L	96
42) Bromodichloromethane	11.56	83	107842	25.13 ug/L	99
43) 2-Chlorovinylethylether	12.10	63	35712	25.34 ug/L	98
44) cis-1,3-Dichloropropene	12.39	75	125892	25.16 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	60317	26.85 ug/L	100
46) trans-1,3-Dichloropropene	12.96	75	96087	25.25 ug/L	97
47) 1,1,2-Trichloroethane	13.17	97	56305	25.95 ug/L	97
49) Toluene	13.43	92	221555	24.90 ug/L	99
51) 1,3-Dichloropropane	13.49	76	97702	25.40 ug/L	99
52) 2-Hexanone	13.69	43	43171	26.85 ug/L	98
53) Dibromochloromethane	13.86	129	68720	24.64 ug/L	96
54) 1,2-Dibromoethane	14.19	107	58393	24.98 ug/L	99
55) Tetrachloroethene	14.42	164	86251	22.60 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.23	131	71024	23.23 ug/L	93
57) Chlorobenzene	15.32	112	209307	23.54 ug/L	97
58) Ethylbenzene	15.59	91	389353	25.07 ug/L	99
59) m,p-Xylenes	15.85	106	143302	24.18 ug/L	96
60) Styrene	16.30	104	196407	24.75 ug/L	98
61) o-Xylene	16.40	106	129466	23.64 ug/L	96
64) Bromoform	16.02	173	40418	25.45 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.40	83	66349	26.77 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	15388	25.76 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	13110	21.70 ug/L	95
68) Isopropylbenzene	16.90	105	361912	26.26 ug/L	99
69) Bromobenzene	17.25	156	81404	24.25 ug/L	93
70) n-Propylbenzene	17.51	91	436616	24.96 ug/L	98
71) 2-Chlorotoluene	17.65	91	231960	24.53 ug/L	98
72) 4-Chlorotoluene	17.75	91	221379	23.93 ug/L	99
73) 1,3,5-Trimethylbenzene	17.92	105	258127	24.02 ug/L	99
74) tert-Butylbenzene	18.31	119	237760	24.77 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	248923	24.49 ug/L	100
76) sec-Butylbenzene	18.62	105	375741	24.19 ug/L	99
77) 1,3-Dichlorobenzene	18.73	146	147956	24.21 ug/L	97
78) 1,4-Dichlorobenzene	18.82	146	139025	23.21 ug/L	99
79) p-Isopropyltoluene	18.87	119	287165	24.67 ug/L	98
80) 1,2-Dichlorobenzene	19.28	146	118825	23.88 ug/L	98
81) n-Butylbenzene	19.40	91	283846	25.43 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.87	75	7617	30.65 ug/L	96
83) 1,2,4-Trichlorobenzene	21.51	180	70757	26.52 ug/L	99
84) Napthalene	21.84	128	123624	28.97 ug/L	99
85) Hexachlorobutadiene	21.90	225	49225	26.88 ug/L	98
86) 1,2,3-Trichlorobenzene	22.09	180	58513	27.16 ug/L	98

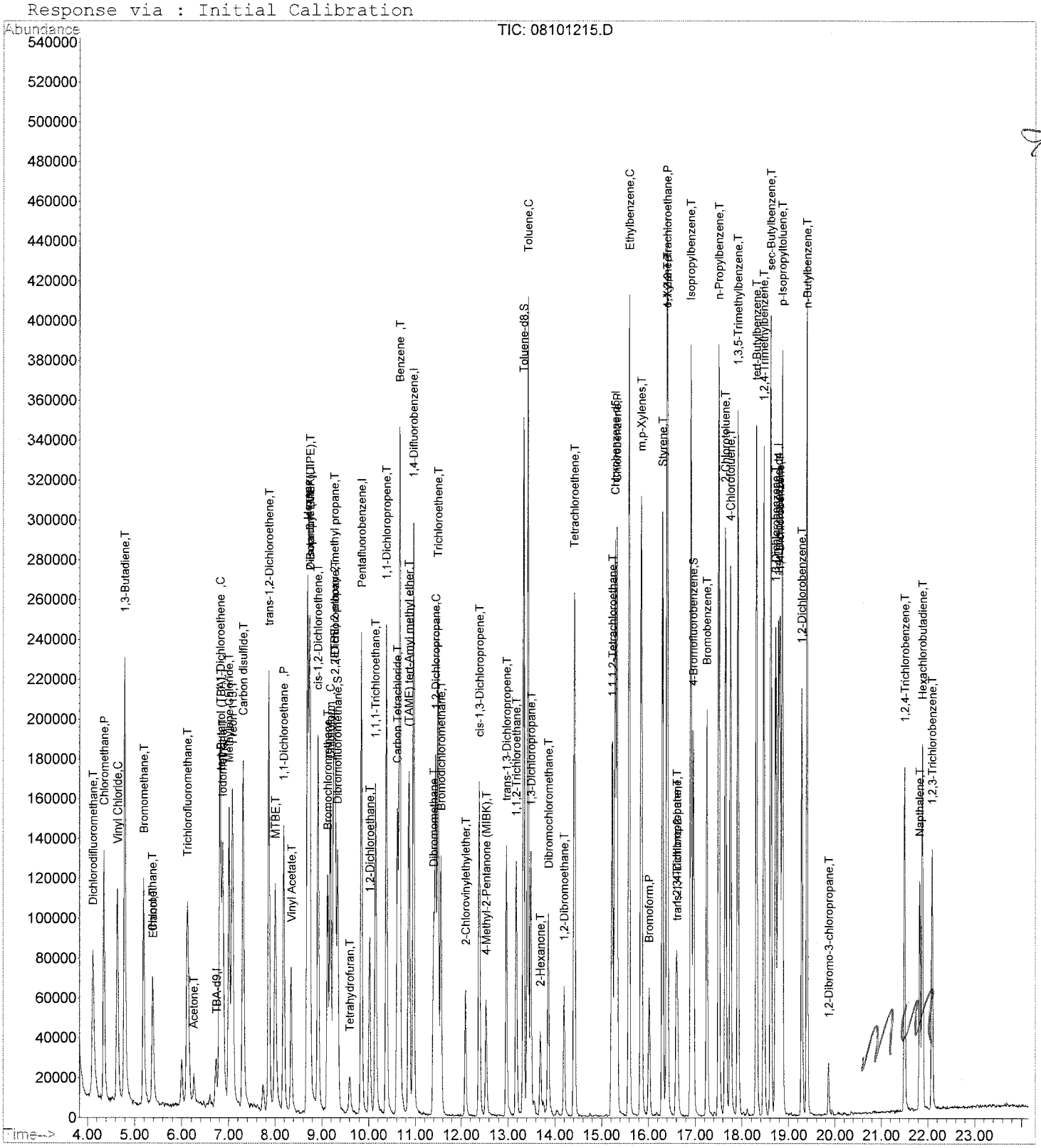
MM

(#) = qualifier out of range (m) = manual integration
08101215.D 081012.M Mon Aug 13 05:30:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Calibration Status Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D
2	1.0	10	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D
3	2.0	20	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D
4	5.0	50	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D
5	10.0	100	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D
6	25.0	250	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D
7	50.0	500	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D
8	100.	1000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D
9	200.	2000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D

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#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Aug 10 12:51 2012	Aug 10 09:42 2012	10 Aug 2012 8:03 am
2	1.0	Aug 10 12:51 2012	Aug 10 09:44 2012	10 Aug 2012 8:36 am
3	2.0	Aug 10 12:51 2012	Aug 10 09:46 2012	10 Aug 2012 9:08 am
4	5.0	Aug 10 12:51 2012	Aug 10 12:39 2012	10 Aug 2012 9:41 am
5	10.0	Aug 10 12:51 2012	Aug 10 12:40 2012	10 Aug 2012 10:14 am
6	25.0	Aug 10 12:51 2012	Aug 10 12:41 2012	10 Aug 2012 10:46 am
7	50.0	Aug 10 12:51 2012	Aug 10 12:43 2012	10 Aug 2012 11:19 am
8	100.	Aug 10 12:51 2012	Aug 10 12:45 2012	10 Aug 2012 11:51 am
9	200.	Aug 10 12:52 2012	Aug 10 12:49 2012	10 Aug 2012 12:24 pm

081012.M Mon Aug 13 06:02:17 2012

MM 8/13/12

Compound List Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
Total Cpnds : 86

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	6.72	1.000	A	0	A	B
2	T	Ethanol	45	5.40	0.803	A	1	A	B
3	T	tert-Butanol (TBA)	59	6.83	1.016	A	1	A	B
4	I	Pentafluorobenzene	168	9.84	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.11	0.417	A	1	A	B
6	P	Chloromethane	50	4.35	0.442	A	1	A	B
7	C	Vinyl Chloride	62	4.63	0.470	A	1	A	B
8	T	1,3-Butadiene	54	4.79	0.486	A	2	A	B
9	T	Bromomethane	94	5.19	0.527	A	1	A	L
10	T	Chloroethane	64	5.38	0.546	A	2	A	B
11	T	Trichlorofluoromethane	101	6.11	0.621	A	1	A	B
12	T	Acetone	43	6.26	0.636	A	1	A	B
13	T	Iodomethane	142	6.86	0.697	A	2	A	B
14	C	1,1-Dichloroethene	96	6.81	0.692	A	2	A	B
15	T	Methylene Chloride	84	7.00	0.711	A	2	A	B
16	T	Freon 113	101	7.07	0.718	A	2	A	B
17	T	Carbon disulfide	76	7.29	0.741	A	2	A	B
18	T	trans-1,2-Dichloroethene	96	7.87	0.799	A	2	A	B
19	T	MTBE	73	8.00	0.813	A	1	A	B
20	P	1,1-Dichloroethane	63	8.18	0.831	A	2	A	B
21	T	Vinyl Acetate	43	8.34	0.847	A	1	A	B
22		n-Hexane	86	8.69	0.883	A	1	A	B
23	T	2-Butanone (MEK)	72	8.73	0.887	A	2	A	B
24	T	Diisopropyl Ether (DIPE)	45	8.74	0.888	A	3	A	B
25	T	cis-1,2-Dichloroethene	96	8.91	0.905	A	2	A	B
26	T	Bromochloromethane	128	9.11	0.926	A	2	A	B
27	C	Chloroform	83	9.17	0.932	A	2	A	B
28	T	2,2-Dichloropropane	77	9.27	0.942	A	2	A	B
29	T	(ETBE) 2-ethoxy-2-methyl propa	59	9.24	0.939	A	2	A	B
30	S	Dibromofluoromethane	113	9.33	0.948	A	0	A	B
31	T	Tetrahydrofuran	72	9.60	0.975	A	2	A	B
32	T	1,2-Dichloroethane	62	10.01	1.017	A	2	A	B
33	T	1,1,1-Trichloroethane	97	10.14	1.030	A	2	A	B
34	T	(TAME) tert-Amyl methyl ether	73	10.86	1.103	A	3	A	B
35	I	1,4-Difluorobenzene	114	10.95	1.000	A	0	A	B
36	T	1,1-Dichloropropene	75	10.37	0.947	A	2	A	B
37	T	Carbon Tetrachloride	117	10.61	0.969	A	2	A	B
38	T	Benzene	78	10.66	0.973	A	1	A	B
39	T	Dibromomethane	93	11.39	1.040	A	2	A	B
40	C	1,2-Dichloropropane	63	11.44	1.044	A	2	A	B
41	T	Trichloroethene	95	11.48	1.048	A	3	A	B
42	T	Bromodichloromethane	83	11.55	1.055	A	2	A	B
43	T	2-Chlorovinylethylether	63	12.08	1.103	A	2	A	B
44	T	cis-1,3-Dichloropropene	75	12.39	1.131	A	2	A	B
45	T	4-Methyl-2-Pentanone (MIBK)	43	12.53	1.144	A	1	A	B
46	T	trans-1,3-Dichloropropene	75	12.95	1.182	A	2	A	B
47	T	1,1,2-Trichloroethane	97	13.17	1.202	A	2	A	B
48	S	Toluene-d8	98	13.32	1.216	A	0	A	B
49	C	Toluene	92	13.42	1.225	A	2	A	B
50	I	Chlorobenzene-d5	117	15.27	1.000	A	0	A	B
51	T	1,3-Dichloropropane	76	13.49	0.883	A	1	A	B
52	T	2-Hexanone	43	13.69	0.896	A	2	A	B
53	T	Dibromochloromethane	129	13.86	0.907	A	1	A	B
54	T	1,2-Dibromoethane	107	14.18	0.929	A	1	A	B
55	T	Tetrachloroethene	164	14.41	0.943	A	2	A	B
56	T	1,1,1,2-Tetrachloroethane	131	15.21	0.996	A	2	A	B
57	P	Chlorobenzene	112	15.32	1.003	A	2	A	B
58	C	Ethylbenzene	91	15.59	1.021	A	1	A	B
59	T	m,p-Xylenes	106	15.84	1.037	A	2	A	B

8/13/15

MM 8/13/15

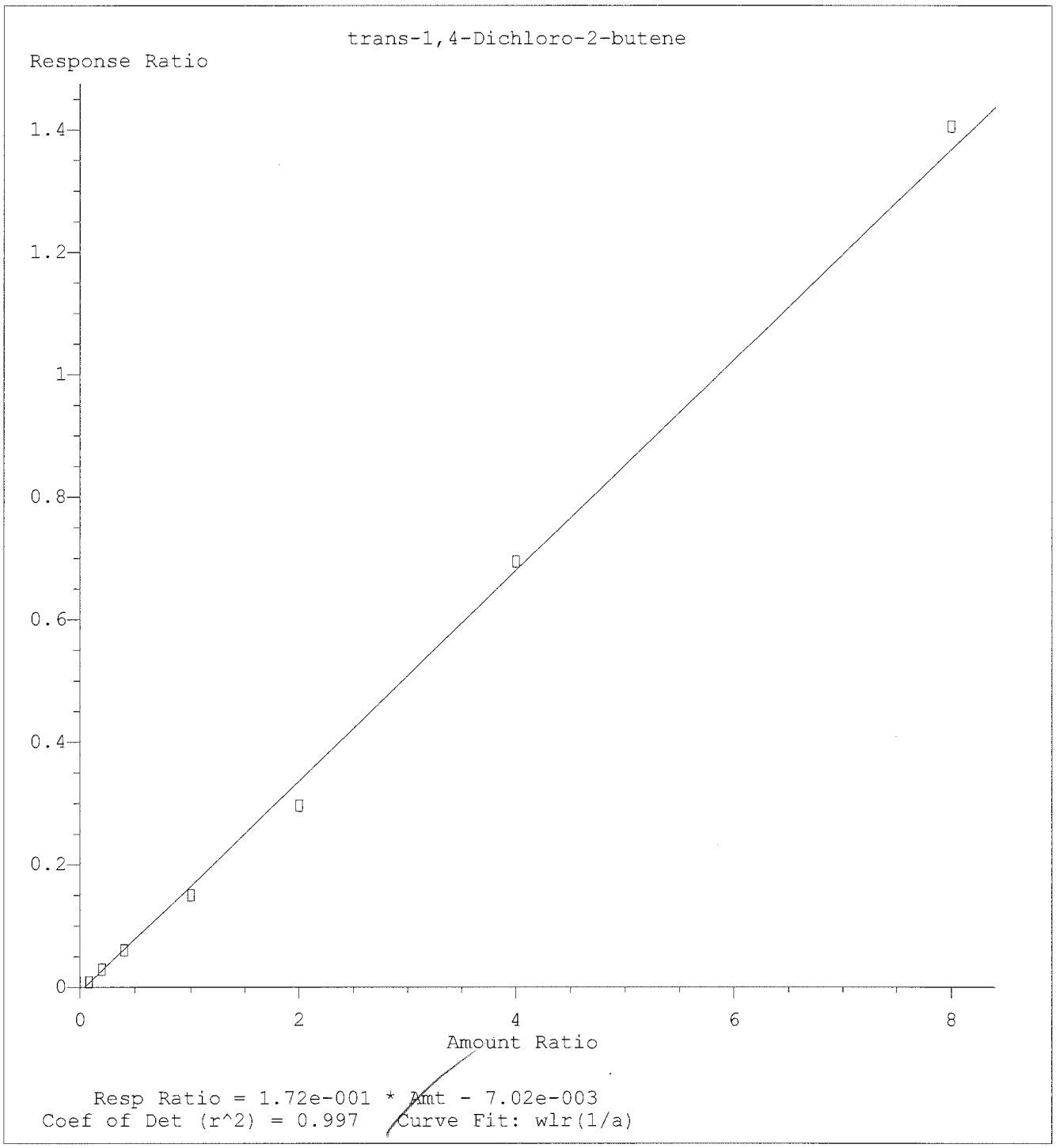
60		T	Styrene	104	16.29	1.067	A	3	A	B
61		T	o-Xylene	106	16.39	1.073	A	2	A	B
62		S	4-Bromofluorobenzene	95	16.95	1.110	A	2	A	B
63	I		1,4-Dichlorobenzene-d4	152	18.77	1.000	A	2	A	B
64	P		Bromoform	173	16.01	0.853	A	1	A	B
65	P		1,1,2,2-Tetrachloroethane	83	16.39	0.873	A	2	A	B
66		T	1,2,3-Trichloropropane	110	16.59	0.884	A	2	A	R
67		T	trans-1,4-Dichloro-2-butene	53	16.62	0.885	L	2	A	B
68		T	Isopropylbenzene	105	16.89	0.900	A	1	A	B
69		T	Bromobenzene	156	17.25	0.919	A	2	A	B
70		T	n-Propylbenzene	91	17.50	0.932	A	1	A	B
71		T	2-Chlorotoluene	91	17.64	0.940	A	1	A	R
72		T	4-Chlorotoluene	91	17.75	0.946	A	1	A	R
73		T	1,3,5-Trimethylbenzene	105	17.91	0.954	A	1	A	B
74		T	tert-Butylbenzene	119	18.30	0.975	A	2	A	B
75		T	1,2,4-Trimethylbenzene	105	18.46	0.983	A	1	A	B
76		T	sec-Butylbenzene	105	18.61	0.991	A	1	A	B
77		T	1,3-Dichlorobenzene	146	18.71	0.997	A	2	A	R
78		T	1,4-Dichlorobenzene	146	18.81	1.002	A	2	A	R
79		T	p-Isopropyltoluene	119	18.85	1.004	A	2	A	B
80		T	1,2-Dichlorobenzene	146	19.28	1.027	A	2	A	B
81		T	n-Butylbenzene	91	19.39	1.033	A	2	A	B
82		T	1,2-Dibromo-3-chloropropane	75	19.86	1.058	Q	2	A	B
83		T	1,2,4-Trichlorobenzene	180	21.51	1.146	A	2	A	B
84		T	Napthalene	128	21.82	1.162	A	1	A	B
85		T	Hexachlorobutadiene	225	21.88	1.166	Q	2	A	B
86		T	1,2,3-Trichlorobenzene	180	22.09	1.177	Q	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

081012.M Mon Aug 13 06:02:11 2012

7

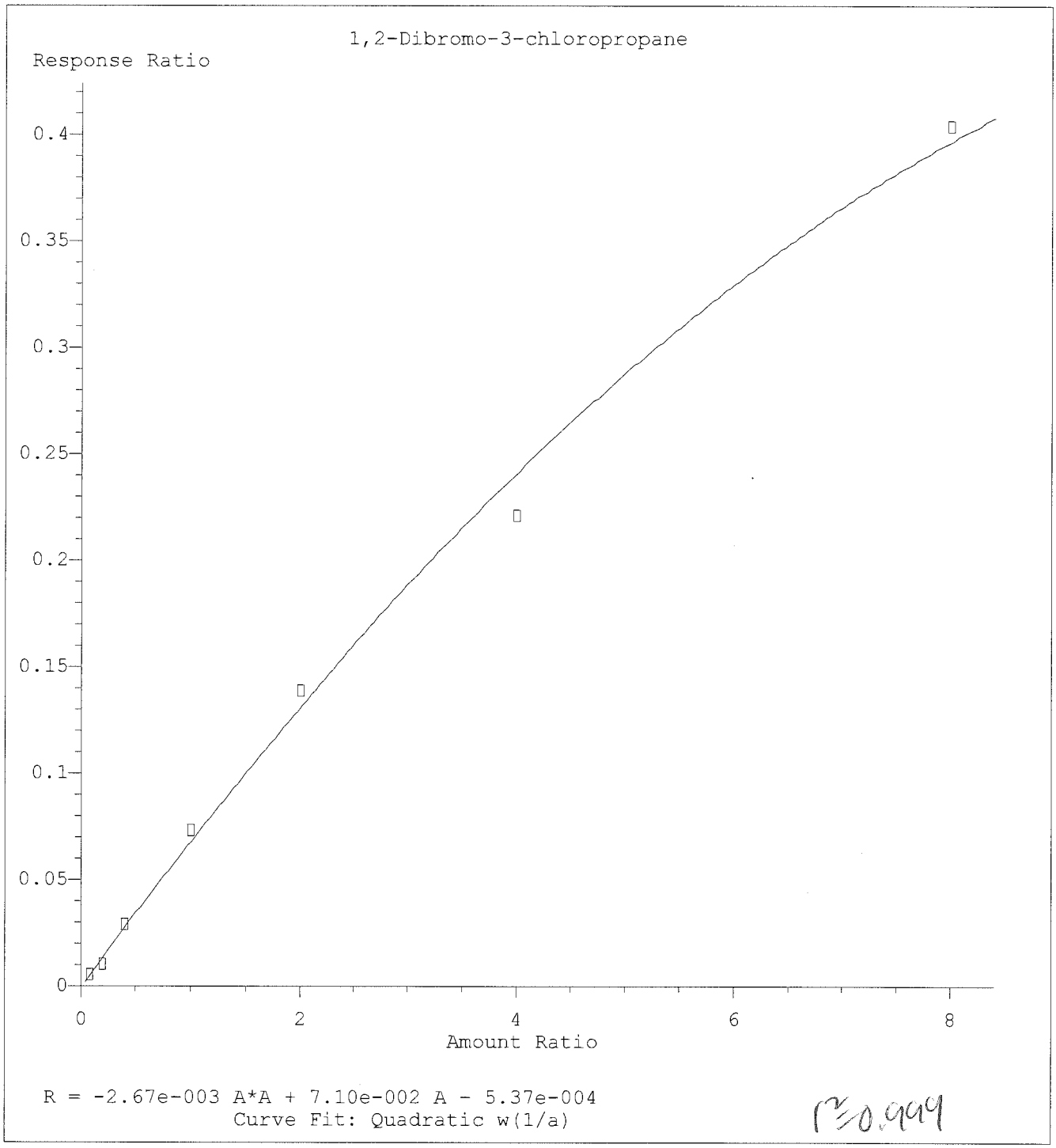
MM



Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM

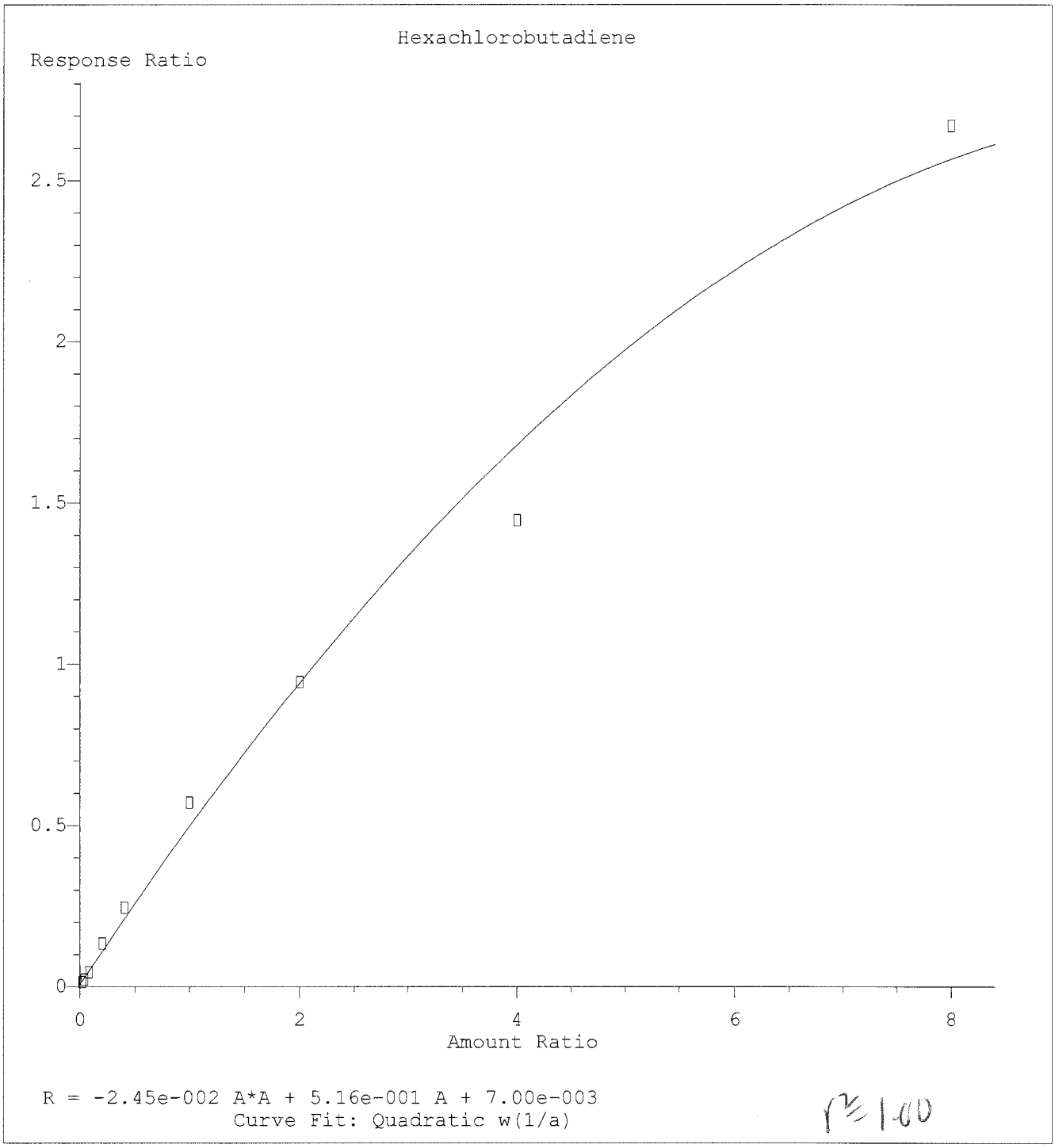


$r^2 \geq 0.999$

8/10/12

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

MM

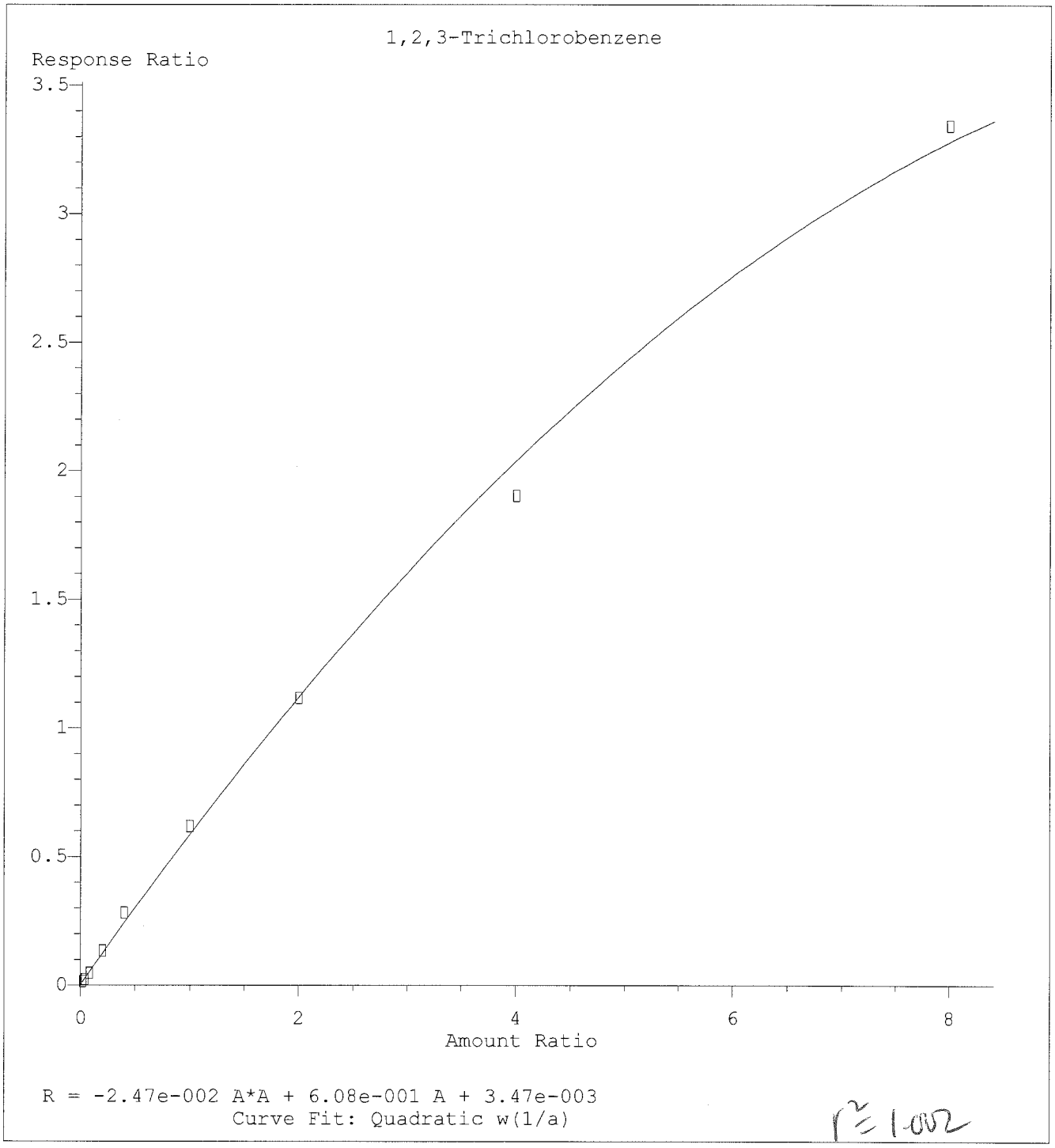


$r^2 = 1.00$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM



R = -2.47e-002 A*A + 6.08e-001 A + 3.47e-003
Curve Fit: Quadratic w(1/a)

$r^2 = 1.002$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

✓ 8/13/12

MM

Untitled

RESPONSE FACTOR REPORT

Operator mm
Standard Lot
Reviewed by
GC/MS #2

8/13/12

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

Calibration File
0.5 =08101204.D 1.0 =08101205.D 2.0 =08101206.D 5.0 =08101207.D
25.0 =08101209.D 50.0 =08101210.D 100. =08101211.D 200. =08101212.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD
I	TBA-d9	ISTD										
T	Ethanol	—	—	—	—	0.104	0.102	0.095	0.115	0.124	0.108	10.55
T	tert-Butanol (TBA)	—	—	1.254	1.190	1.109	1.197	1.060	1.124	1.255	1.170	6.38
I	Pentafluorobenzene	ISTD										
T	Dichlorodifluoromethane	0.967	0.932	0.854	0.978	0.935	0.924	0.927	0.885	0.855	0.917	4.83
P	Chloromethane	0.952	0.990	0.857	0.955	0.932	0.885	0.867	0.817	0.778	0.893	7.84
C	Vinyl Chloride	0.867	0.839	0.807	0.954	0.891	0.833	0.805	0.733	0.625	0.817	11.58
T	1,3-Butadiene	—	0.422	0.420	0.486	0.477	0.452	0.443	0.424	0.410	0.442	6.35
T	Bromomethane	—	0.511	0.418	0.581	0.544	0.487	0.498	0.482	0.471	0.499	9.78
T	Chloroethane	0.369	0.390	0.399	0.454	0.420	0.409	0.421	0.405	0.380	0.405	6.21
T	Trichlorofluoromethane	0.712	0.711	0.666	0.793	0.770	0.724	0.738	0.700	0.686	0.722	5.52
T	Acetone	—	—	—	0.100	0.108	0.117	0.105	0.114	0.089	0.105	9.67
T	Iodomethane	0.819	0.892	0.854	0.856	0.875	0.831	0.837	0.827	0.804	0.844	3.31
C	1,1-Dichloroethene	0.554	0.578	0.515	0.506	0.504	0.470	0.474	0.467	0.456	0.503	8.26
T	Methylene Chloride	—	0.495	0.472	0.450	0.456	0.428	0.436	0.432	0.412	0.448	5.90
T	Freon 113	0.549	0.515	0.522	0.572	0.539	0.520	0.506	0.485	0.478	0.521	5.71
T	Carbon disulfide	1.636	1.540	1.521	1.747	1.729	1.653	1.681	1.612	1.593	1.635	4.74
T	trans-1,2-Dichloroethene	0.664	0.593	0.568	0.599	0.600	0.558	0.568	0.548	0.547	0.583	6.28
T	MTBE	0.792	0.864	0.815	0.830	0.848	0.810	0.809	0.838	0.811	0.824	2.75
P	1,1-Dichloroethane	0.878	0.920	0.935	0.973	0.935	0.888	0.892	0.866	0.860	0.905	4.17
T	Vinyl Acetate	—	—	0.588	0.619	0.644	0.637	0.647	0.685	0.672	0.642	5.01
	n-Hexane	0.130	0.150	0.145	0.166	0.144	0.137	0.144	0.136	0.136	0.143	7.34
T	2-Butanone (MEK)	—	—	0.034	0.035	0.037	0.039	0.033	0.039	0.035	0.036#	6.30
T	Diisopropyl Ether (DIPE)	1.507	1.597	1.590	1.516	1.596	1.473	1.494	1.506	1.474	1.528	3.38
T	cis-1,2-Dichloroethene	0.541	0.563	0.501	0.539	0.557	0.512	0.523	0.521	0.518	0.531	3.88
T	Bromochloromethane	0.209	0.186	0.209	0.204	0.223	0.208	0.219	0.217	0.223	0.211	5.56
C	Chloroform	0.770	0.736	0.805	0.849	0.829	0.794	0.780	0.775	0.788	0.792	4.20
T	2,2-Dichloropropane	—	0.652	0.634	0.632	0.623	0.582	0.580	0.548	0.545	0.599	6.85
T	(ETBE) 2-ethoxy-2-methyl propane	1.140	1.114	1.142	1.077	1.144	1.059	1.074	1.104	1.074	1.103	3.03
S	Dibromofluoromethane	0.407	0.452	0.483	0.436	0.454	0.430	0.409	0.424	0.440	0.437	5.43
T	Tetrahydrofuran	—	—	0.042	0.029	0.034	0.029	0.030	0.034	0.033	0.033#	13.51

mm 8/13/12

T	1,2-Dichloroethane	0.344	0.406	0.417	0.377	0.387	0.374	0.380	0.375	0.378	0.382	5.41
T	1,1,1-Trichloroethane	0.672	0.605	0.642	0.692	0.711	0.677	0.662	0.648	0.661	0.663	4.59
T	(TAME) tert-Amyl methyl ether	0.991	0.860	0.877	0.867	0.863	0.859	0.873	0.935	0.878	0.889	5.02
I	1,4-Difluorobenzene	----------ISTD----------										
T	1,1-Dichloropropene	0.537	0.536	0.511	0.571	0.596	0.525	0.534	0.489	0.513	0.535	6.02
T	Carbon Tetrachloride	0.442	0.388	0.375	0.436	0.445	0.420	0.426	0.409	0.431	0.419	5.73
T	Benzene	1.344	1.239	1.242	1.286	1.326	1.272	1.269	1.246	1.256	1.276	2.93
T	Dibromomethane	0.136	0.148	0.145	0.150	0.158	0.149	0.154	0.156	0.158	0.151	4.73
C	1,2-Dichloropropane	0.308	0.308	0.309	0.302	0.316	0.302	0.296	0.295	0.299	0.304	2.22
T	Trichloroethene	0.354	0.325	0.374	0.387	0.369	0.361	0.355	0.340	0.353	0.358	5.09
T	Bromodichloromethane	0.300	0.310	0.334	0.367	0.373	0.360	0.364	0.372	0.370	0.350	8.06
T	2-Chlorovinylethylether	—	—	0.108	0.097	0.121	0.113	0.119	0.124	0.123	0.115	8.46
T	cis-1,3-Dichloropropene	0.377	0.366	0.384	0.405	0.428	0.422	0.430	0.431	0.427	0.408	6.28
T	4-Methyl-2-Pentanone (MIBK)	—	0.205	0.187	0.169	0.187	0.171	0.175	0.191	0.180	0.183	6.44
T	trans-1,3-Dichloropropene	0.298	0.299	0.278	0.298	0.318	0.316	0.319	0.331	0.335	0.310	5.93
T	1,1,2-Trichloroethane	0.119	0.179	0.179	0.181	0.190	0.185	0.185	0.186	0.188	0.177	12.54
S	Toluene-d8	1.049	0.911	1.086	1.023	1.040	0.992	0.921	0.911	0.952	0.987	6.69
C	Toluene	0.753	0.660	0.734	0.766	0.757	0.722	0.733	0.699	0.707	0.726	4.58
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.365	0.458	0.407	0.467	0.465	0.455	0.453	0.474	0.451	0.444	7.94
T	2-Hexanone	—	—	0.160	0.174	0.182	0.194	0.187	0.216	0.186	0.186	9.32
T	Dibromochloromethane	0.248	0.295	0.288	0.317	0.341	0.337	0.341	0.363	0.365	0.322	12.00
T	1,2-Dibromoethane	0.237	0.251	0.276	0.267	0.288	0.279	0.264	0.283	0.283	0.270	6.27
T	Tetrachloroethene	0.467	0.429	0.415	0.472	0.462	0.459	0.420	0.415	0.425	0.440	5.44
T	1,1,1,2-Tetrachloroethane	0.370	0.327	0.329	0.360	0.373	0.376	0.347	0.341	0.353	0.353	5.20
P	Chlorobenzene	1.007	0.931	1.012	1.075	1.108	1.054	1.029	1.026	0.995	1.026	4.95
C	Ethylbenzene	1.805	1.800	1.618	1.841	1.912	1.875	1.810	1.764	1.708	1.793	4.93
T	m,p-Xylenes	0.655	0.637	0.597	0.704	0.752	0.717	0.702	0.700	0.693	0.684	6.81
T	Styrene	0.888	0.824	0.839	0.876	0.985	0.994	0.955	0.947	0.936	0.916	6.72
T	o-Xylene	0.692	0.604	0.544	0.642	0.700	0.653	0.648	0.597	0.609	0.632	7.75
S	4-Bromofluorobenzene	0.398	0.374	0.403	0.382	0.430	0.384	0.356	0.378	0.371	0.386	5.51
I	1,4-Dichlorobenzene-d4	----------ISTD----------										
P	Bromoform	0.366	0.381	0.372	0.423	0.417	0.418	0.459	0.479	0.557	0.430	14.13
P	1,1,2,2-Tetrachloroethane	0.682	0.648	0.661	0.657	0.760	0.644	0.661	0.660	0.671	0.672	5.23
T	1,2,3-Trichloropropane	—	0.152	0.152	0.170	0.166	0.154	0.160	0.170	0.170	0.162	5.05
T	trans-1,4-Dichloro-2-butene	—	—	0.106	0.144	0.151	0.150	0.148	0.174	0.176	0.150	15.43
T	Isopropylbenzene	3.964	3.555	3.613	3.872	4.007	3.584	3.622	3.547	3.841	3.734	4.96
T	Bromobenzene	0.876	0.806	0.904	0.900	0.955	0.901	0.900	0.927	1.019	0.910	6.30
T	n-Propylbenzene	5.063	4.533	4.406	4.869	5.070	4.617	4.641	4.603	4.857	4.740	4.96
T	2-Chlorotoluene	2.658	2.497	2.645	2.616	2.737	2.424	2.441	2.453	2.592	2.563	4.37
T	4-Chlorotoluene	2.587	2.456	2.405	2.628	2.644	2.367	2.404	2.451	2.614	2.506	4.41
T	1,3,5-Trimethylbenzene	3.001	2.763	2.877	2.992	3.233	2.889	2.859	2.688	2.905	2.912	5.36
T	tert-Butylbenzene	2.848	2.500	2.568	2.674	2.877	2.581	2.543	2.359	2.456	2.601	6.62
T	1,2,4-Trimethylbenzene	2.866	2.631	2.763	2.886	2.995	2.688	2.699	2.561	2.702	2.755	4.98
T	sec-Butylbenzene	4.618	3.925	4.247	4.555	4.681	4.210	4.056	3.714	3.871	4.209	8.29
T	1,3-Dichlorobenzene	1.830	1.585	1.564	1.736	1.809	1.606	1.641	1.522	1.610	1.656	6.63
T	1,4-Dichlorobenzene	1.863	1.547	1.603	1.623	1.731	1.562	1.586	1.530	1.565	1.623	6.63

Untitled

T	p-Isopropyltoluene	3.147	3.133	3.086	3.325	3.518	3.188	3.136	2.869	2.980	3.154	5.94
T	1,2-Dichlorobenzene	1.555	1.360	1.332	1.386	1.456	1.330	1.342	1.172	1.199	1.348	8.70
T	n-Butylbenzene	3.068	2.923	2.932	3.235	3.424	3.092	3.023	2.758	2.761	3.024	7.11
T	1,2-Dibromo-3-chloropropane	—	—	0.070	0.053	0.073	0.073	0.069	0.055	0.051	0.063#	15.93
T	1,2,4-Trichlorobenzene	0.834	0.622	0.721	0.802	0.873	0.763	0.720	0.591	0.578	0.723	14.76
T	Napthalene	1.328	1.259	1.077	1.222	1.370	1.214	1.090	0.962	0.886	1.156	14.17
T	Hexachlorobutadiene	0.765	0.578	0.568	0.673	0.613	0.571	0.472	0.362	0.334	0.549	25.40
T	1,2,3-Trichlorobenzene	0.768	0.594	0.601	0.674	0.707	0.618	0.559	0.476	0.418	0.602	18.17

(#) = Out of Range

081012.M Mon Aug 13 06:02:31 2012

mm

CALIBRATION DATA

METHOD: 8260

DATE: 07/09/12

TestAmerica
Phoenix

Instrument ID	GCMS 4
Date:	7/9/12
Analyst	mm / KH
Method(s)	8260/624
50 ppm Cal. Std.	PV04116
2.5 ppm Cal. Std.	PV04117
500 / 250 / 50 ppm EtOH/TBA/Surr Cal. Std.	PV04115
50 / 25 / 5 ppm EtOH/TBA/Surr Cal. Std.	PV04096
50 ppm SS Std.	PV04039
500 / 250 ppm EtOH/TBA SS Std.	PV03697
Tertiary Std.	NA

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: [signature] Date: 7/11/12

TestAmerica
Phoenix

GC/MS 4 DAILY LOG SUMMARY

DATE: ~~6~~ 7/9/12 QC BATCH # (s) :

ANALYST: mm SEQUENCE FILE: C:\GCMS4\DATA\ 070912 S

CALIBRATION METHOD(S):

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	07091201	Tune	2mL	NA	8260	NA	Fail Failed
1	02	Tune	2mL				↓ response Jmm
1	03	Tune	2mL				User tune Dmm
1	04	Tune	2mL				Test Dmm
1	05	Tune	2mL				Test Dmm A EMV
1	06	Tune	2mL				↑ EMV → 1800
1	07	Tune	2mL			✓	✓
2	08	Blank	✓			H_2O	Dmm cleanout
3	09		✓				✓
4	10	✓	✓				
5	11	0.5 ppb ICAL	✓				
6	12	1.0	✓				
7	13	2.0	✓				
8	14	5.0	✓				
9	15	10	✓				
10	16	25	✓				
11	17	50	✓				
12	18	100	✓				
13	19	200 ✓	✓				
14	20	Blank	✓	✓	✓	✓	
✓	21	Tune	2mL	NA	~~8260~~ 8260	NA	Fail 176 ↓
✓	22	↓	2mL			↓	
2	23	25 ppb ICV	✓			H_2O	
3	24	1260244-BLK1	200mL			SOIL	
4	25	-BS1	200 mL				
5	26	-BSD1	200 mL				
6	27	-MS1	200 mL				
7	28	↓ -MSD1	200 mL				
8	29	PVF1550-01 SGE1	200 mL				244
9	↓ 30	↓ -025 ↓	200 mL	↓	↓	↓	↓

STANDARD ID NUMBERS

ICV / H_2O LCS: PV64029 / 3697

CCV/CALIBRATION STD: PV64116/4115/4117/4046

Internal Std: 4079

IS/Surrogate/BFB: PV62484/3882

* 7/9/12

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5mL ICV 3763 + 5mL IS/Surr → 10mL vial

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: MM 7/9/12

SEQUENCE REVIEWED By/Date: ✓

FINAL REVIEWER / Date:

TestAmerica
Phoenix

GC/MS 4 DAILY LOG SUMMARY

DATE: 7/19/12 cont. QC BATCH # (s): 53

ANALYST: [illegible] SEQUENCE FILE: C:\GCMS4\DATA\

CALIBRATION METHOD(S): [illegible]

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 200uL ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
10	07 09 12 31	PVF1850-03BRE1	✓	NA	8260	SOIL	244
11	32	-04B	✓				
12	33	-05B	✓				
13	34	-06B	✓				
14	35	-07B	✓				
15	36	-08B	✓				
16	37	-09B	✓				
17	38	1260194-BLK1	✓				
18	39	-BSD1	✓				
19	40	-MS1	✓				
20	41	-MSD1	✓				
21	42	PVG0319-01A	✓				194
22	43	0679-03A	✓				96
23	44	-04A	✓				
24	45	PVF1916-02 PSX	40uL→10mL				BTEX CF

[illegible] 7/19/12

STANDARD ID NUMBERS

ICV / H_2O LCS: [illegible]

CCV/CALIBRATION STD: [illegible]

Internal Std: [illegible]

IS/Surrogate/BFB: [illegible]

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION: [illegible]

ARCHON REVIEWED By/Date: [illegible]

SEQUENCE REVIEWED By/Date: [illegible]

FINAL REVIEWER / Date:

Injection Log

Directory: C:\HPCHEM\1\GCMS4\DATA\070912

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	07091201.D	1.	TUNE		9 Jul 2012 06:20
2	1	07091202.D	1.	TUNE		9 Jul 2012 06:57
3	1	07091203.D	1.	TUNE		9 Jul 2012 07:42
4	1	07091204.D	1.	TUNE		9 Jul 2012 08:17
5	1	07091205.D	1.	TUNE		9 Jul 2012 08:27
6	1	07091206.D	1.	TUNE		9 Jul 2012 08:46
7	1	07091207.D	1.	TUNE		9 Jul 2012 08:56
8	2	07091208.D	1.	BLANK		9 Jul 2012 09:20
9	3	07091209.D	1.	BLANK		9 Jul 2012 09:52
10	4	07091210.D	1.	BLANK		9 Jul 2012 10:25
11	5	07091211.D	1.	0.5 PPB ICAL		9 Jul 2012 10:58
12	6	07091212.D	1.	1.0 PPB ICAL		9 Jul 2012 11:31
13	7	07091213.D	1.	2.0 PPB ICAL		9 Jul 2012 12:03
14	8	07091214.D	1.	5.0 PPB ICAL		9 Jul 2012 12:35
15	9	07091215.D	1.	10 PPB ICAL		9 Jul 2012 13:09
16	10	07091216.D	1.	25 PPB ICAL		9 Jul 2012 13:42
17	11	07091217.D	1.	50 PPB ICAL		9 Jul 2012 14:14
18	12	07091218.D	1.	100 PPB ICAL		9 Jul 2012 15:09
19	13	07091219.D	1.	200 PPB ICAL		9 Jul 2012 15:43
20	14	07091220.D	1.	BLANK		9 Jul 2012 16:16
21	15	07091221.D	1.	TUNE		9 Jul 2012 16:43
22	16	07091222.D	1.	TUNE		9 Jul 2012 16:53
23	17	07091223.D	1.	25 PPB ICV		9 Jul 2012 17:07
24	3	07091224.D	1.	12G0244-BLK1		9 Jul 2012 17:39
25	4	07091225.D	1.	12G0244-BS1		9 Jul 2012 18:12
26	5	07091226.D	1.	12G0244-BSD1		9 Jul 2012 18:44
27	6	07091227.D	1.	12G0244-MS1		9 Jul 2012 19:17
28	7	07091228.D	1.	12G0244-MSD1		9 Jul 2012 19:49
29	8	07091229.D	1.	PVF1850-01RE1		9 Jul 2012 20:21
30	9	07091230.D	1.	PVF1850-02RE1		9 Jul 2012 20:54
31	10	07091231.D	1.	PVF1850-03RE1		9 Jul 2012 21:26
32	11	07091232.D	1.	PVF1850-04RE1		9 Jul 2012 21:58
33	12	07091233.D	1.	PVF1850-05RE1		9 Jul 2012 22:31
34	13	07091234.D	1.	PVF1850-06RE1		9 Jul 2012 23:03
35	14	07091235.D	1.	PVF1850-07RE1		9 Jul 2012 23:35
36	15	07091236.D	1.	PVF1850-08RE1		10 Jul 2012 00:07
37	16	07091237.D	1.	PVF1850-09RE1		10 Jul 2012 00:39
38	17	07091238.D	1.	12G0194-BLK1		10 Jul 2012 01:11
39	18	07091239.D	1.	12G0194-BSD1		10 Jul 2012 01:44
40	19	07091240.D	1.	12G0194-MS1		10 Jul 2012 02:16
41	20	07091241.D	1.	12G0194-MSD1		10 Jul 2012 02:48
42	21	07091242.D	1.	PVG0319-01		10 Jul 2012 03:21
43	22	07091243.D	1.	PVG0079-03		10 Jul 2012 03:53
44	23	07091244.D	1.	PVG0079-04		10 Jul 2012 04:25
45	24	07091245.D	1.	PVF1916-02@5X	BTEX CF	10 Jul 2012 04:57

MM 7/11/12

Calibration Status Report - GCMS4

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D
2	1.0	10	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D
3	2.0	20	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D
4	5.0	50	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D
5	10.0	100	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D
6	25.0	250	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D
7	50.0	500	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D
8	100.	1000	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D
9	200	2000	200	C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Jul 09 16:32 2012	Jul 09 16:10 19112	
2	1.0	Jul 09 16:32 2012	Jul 09 16:13 19112	
3	2.0	Jul 09 16:33 2012	Jul 09 16:18 19112	
4	5.0	Jul 09 16:33 2012	Jul 09 16:21 19112	
5	10.0	Jul 09 16:33 2012	Jul 09 16:27 19112	
6	25.0	Jul 09 16:33 2012	Jul 09 16:24 19112	
7	50.0	Jul 09 16:33 2012	Jul 09 16:30 19112	
8	100.	Jul 09 16:33 2012	Jul 09 16:30 19112	
9	200	Jul 09 16:33 2012	Jul 09 16:31 19112	

070912.M Wed Jul 11 08:25:40 2012

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RESPONSE FACTOR REPORT

Operator KH/MM
Standard Lot
Reviewed by
GCMS4

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

Calibration File
0.5 =07091211.D 1.0 =07091212.D 2.0 =07091213.D 5.0 =07091214.D
25.0 =07091216.D 50.0 =07091217.D 100. =07091218.D 200 =07091219.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200	Avg	%RSD
I	TBA-d9	ISTD										
T	Ethanol	—	—	—	—	0.165	0.161	0.151	0.161	0.161	0.159	3.32
T	tert-Butanol (TBA)	—	—	1.578	1.296	1.161	1.280	1.130	1.199	1.219	1.266	11.84
I	Pentafluorobenzene	ISTD										
T	Dichlorodifluoromethane	0.879	0.972	0.816	0.801	0.743	0.862	0.706	0.762	0.832	0.819	9.75
P	Chloromethane	1.692	1.581	1.574	1.515	1.380	1.632	1.329	1.516	1.586	1.534	7.54
C	Vinyl Chloride	1.368	1.449	1.340	1.352	1.199	1.427	1.136	1.230	1.272	1.308	8.08
	1,3-Butadiene	0.997	1.122	1.063	0.989	0.931	1.062	0.842	0.923	0.969	0.989	8.64
T	Bromomethane	—	0.582	0.581	0.535	0.494	0.565	0.463	0.521	0.534	0.534	7.86
T	Chloroethane	0.983	0.865	0.825	0.781	0.694	0.801	0.645	0.723	0.751	0.785	12.77
T	Trichlorofluoromethane	0.594	0.570	0.611	0.605	0.552	0.634	0.525	0.563	0.608	0.585	5.89
T	Acetone	—	—	—	0.425	0.383	0.340	0.327	0.390	0.327	0.365	11.05
T	Iodomethane	0.661	0.690	0.699	0.684	0.622	0.711	0.589	0.666	0.685	0.667	5.88
C	1,1-Dichloroethene	0.670	0.709	0.780	0.681	0.551	0.626	0.504	0.557	0.581	0.629	14.10
T	Methylene Chloride	0.831	1.122	0.729	0.603	0.608	0.656	0.544	0.627	0.623	0.705	25.15
T	Freon 113	0.627	0.615	0.596	0.604	0.529	0.640	0.514	0.551	0.585	0.584	7.51
T	Carbon disulfide	2.712	2.678	2.595	2.556	2.297	2.674	2.168	2.427	2.588	2.522	7.41
T	trans-1,2-Dichloroethene	1.120	0.856	0.837	0.736	0.648	0.718	0.592	0.657	0.675	0.760	21.10
T	MTBE	1.846	1.387	1.503	1.356	1.317	1.383	1.234	1.487	1.390	1.434	12.17
P	1,1-Dichloroethane	1.520	1.561	1.577	1.539	1.386	1.602	1.323	1.488	1.531	1.503	6.10
T	Vinyl Acetate	—	1.683	1.604	1.549	1.480	1.582	1.415	1.785	1.635	1.592	7.26
T	n-Hexane	—	—	0.258	0.276	0.219	0.262	0.212	0.230	0.245	0.243	9.75
T	2-Butanone (MEK)	—	—	0.066	0.078	0.078	0.080	0.075	0.092	0.079	0.078#	9.74
T	Diisopropyl Ether (DIPE)	3.610	3.552	3.352	3.452	3.135	3.480	2.972	3.413	3.397	3.374	5.98
T	cis-1,2-Dichloroethene	0.890	0.847	0.685	0.692	0.609	0.671	0.553	0.632	0.639	0.691	15.90
T	Bromochloromethane	0.196	0.200	0.198	0.215	0.206	0.227	0.191	0.230	0.221	0.209	6.88
C	Chloroform	1.040	1.096	0.993	0.963	0.866	1.009	0.839	0.957	0.961	0.969	8.24
T	2,2-Dichloropropane	1.084	1.066	0.847	0.803	0.782	0.849	0.652	0.719	0.774	0.842	17.32
T	(ETBE) 2-ethoxy-2-methyl propane	2.219	2.292	2.162	2.227	2.054	2.222	1.951	2.284	2.216	2.181	5.09
S	Dibromofluoromethane	0.413	0.400	0.441	0.438	0.444	0.449	0.347	0.438	0.442	0.424	7.77
T	Tetrahydrofuran				0.071	0.067	0.062	0.058	0.072	0.061	0.065#	8.48

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T	1,2-Dichloroethane	0.598	0.648	0.608	0.597	0.572	0.635	0.542	0.655	0.620	0.608	5.95
T	1,1,1-Trichloroethane	1.426	1.024	0.748	0.690	0.621	0.736	0.586	0.633	0.662	0.792	34.16
T	(TAME) tert-Amyl methyl ether	1.846	1.824	1.694	1.614	1.482	1.573	1.388	1.679	1.585	1.632	9.12
I	1,4-Difluorobenzene	----------ISTD----------										
T	1,1-Dichloropropene	0.710	0.687	0.649	0.655	0.591	0.696	0.567	0.616	0.644	0.646	7.43
T	Carbon Tetrachloride	0.306	0.302	0.308	0.300	0.274	0.318	0.263	0.280	0.295	0.294	6.06
T	Benzene	1.704	1.852	1.728	1.730	1.536	1.779	1.473	1.652	1.692	1.683	6.93
T	Dibromomethane	0.170	0.146	0.149	0.145	0.131	0.149	0.128	0.156	0.147	0.147	8.49
C	1,2-Dichloropropane	0.439	0.506	0.462	0.463	0.412	0.471	0.393	0.451	0.447	0.449	7.35
T	Trichloroethene	0.288	0.353	0.333	0.366	0.325	0.379	0.302	0.327	0.338	0.334	8.65
T	Bromodichloromethane	0.403	0.435	0.371	0.365	0.347	0.389	0.328	0.384	0.381	0.378	8.21
T	2-Chlorovinylethylether	—	0.182	0.175	0.165	0.159	0.171	0.158	0.196	0.177	0.173	7.26
T	cis-1,3-Dichloropropene	0.594	0.588	0.562	0.569	0.523	0.596	0.511	0.594	0.581	0.569	5.55
T	4-Methyl-2-Pentanone (MIBK)	—	0.480	0.431	0.396	0.415	0.397	0.370	0.456	0.401	0.418	8.55
T	trans-1,3-Dichloropropene	0.420	0.439	0.422	0.424	0.398	0.446	0.392	0.469	0.443	0.428	5.64
T	1,1,2-Trichloroethane	0.190	0.185	0.213	0.200	0.196	0.207	0.180	0.217	0.202	0.199	6.29
S	Toluene-d8	—	1.036	1.126	1.182	1.151	1.213	0.884	1.118	1.150	1.107	9.41
C	Toluene	0.917	0.959	0.899	0.912	0.826	0.949	0.782	0.859	0.864	0.885	6.53#
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.624	0.608	0.616	0.602	0.564	0.623	0.557	0.628	0.622	0.605	4.41
T	2-Hexanone	—	0.386	0.371	0.397	0.435	0.426	0.415	0.486	0.441	0.420	8.62
T	Dibromochloromethane	0.263	0.251	0.259	0.256	0.235	0.270	0.240	0.274	0.275	0.258	5.44
T	1,2-Dibromoethane	0.237	0.251	0.258	0.248	0.232	0.256	0.229	0.265	0.260	0.248	5.25
T	Tetrachloroethene	0.330	0.323	0.332	0.325	0.287	0.342	0.288	0.292	0.319	0.315	6.61
T	1,1,1,2-Tetrachloroethane	0.275	0.309	0.293	0.283	0.254	0.298	0.252	0.273	0.282	0.280	6.79
P	Chlorobenzene	1.029	1.069	1.048	1.024	0.915	1.064	0.912	0.969	1.010	1.005	5.94
C	Ethylbenzene	2.343	2.300	2.159	2.220	1.955	2.271	1.907	1.954	2.085	2.133	7.71
T	m,p-Xylenes	0.805	0.820	0.772	0.783	0.687	0.815	0.687	0.698	0.734	0.756	7.30
T	Styrene	1.074	1.128	1.049	1.067	0.989	1.147	0.969	1.021	1.052	1.055	5.53
T	o-Xylene	0.706	0.743	0.699	0.696	0.622	0.720	0.606	0.623	0.647	0.673	7.35
S	4-Bromofluorobenzene		0.462	0.492	0.488	0.468	0.471	0.362	0.417	0.417	0.447	9.97
I	1,4-Dichlorobenzene-d4	----------ISTD----------										
P	Bromoform	—	0.352	0.355	0.358	0.333	0.395	0.354	0.445	0.472	0.383	13.12
P	1,1,2,2-Tetrachloroethane	1.204	1.067	1.097	1.001	0.927	1.009	0.880	1.089	1.082	1.039	9.37
T	1,2,3-Trichloropropane	—	—	0.221	0.204	0.191	0.203	0.178	0.224	0.226	0.207	8.73
T	trans-1,4-Dichloro-2-butene	—	—	0.420	0.360	0.325	0.363	0.323	0.414	0.403	0.372	10.93
T	Isopropylbenzene	5.042	4.874	4.742	4.684	4.032	4.914	4.037	4.468	5.213	4.667	8.92
T	Bromobenzene	0.762	0.843	0.838	0.841	0.756	0.909	0.753	0.907	0.988	0.844	9.52
T	n-Propylbenzene	6.938	6.943	6.704	6.622	5.793	7.031	5.749	6.371	7.253	6.600	8.10
T	2-Chlorotoluene	3.728	3.768	3.623	3.478	3.082	3.690	3.003	3.367	3.779	3.502	8.41
T	4-Chlorotoluene	3.626	3.523	3.451	3.350	2.944	3.540	2.890	3.298	3.605	3.359	8.13
T	1,3,5-Trimethylbenzene	3.692	3.890	3.731	3.688	3.178	3.884	3.097	3.327	3.675	3.573	8.30
T	tert-Butylbenzene	3.158	3.371	3.171	3.242	2.778	3.375	2.621	2.743	3.072	3.059	9.14
T	1,2,4-Trimethylbenzene	3.633	3.746	3.617	3.532	3.082	3.709	2.940	3.120	3.416	3.422	8.78
T	sec-Butylbenzene	5.713	5.802	5.626	5.472	4.750	5.725	4.537	4.672	5.164	5.273	9.56
T	1,3-Dichlorobenzene	1.550	1.750	1.762	1.675	1.477	1.786	1.455	1.596	1.676	1.636	7.53
T	1,4-Dichlorobenzene	1.531	1.712	1.642	1.597	1.462	1.721	1.414	1.539	1.623	1.582	6.66

Untitled

T	p-Isopropyltoluene	4.031	4.036	4.024	3.977	3.477	4.165	3.266	3.297	3.585	3.762	9.39
T	1,2-Dichlorobenzene	1.343	1.338	1.395	1.386	1.257	1.455	1.154	1.221	1.240	1.310	7.43
T	n-Butylbenzene	4.483	4.544	4.389	4.362	3.748	4.561	3.572	3.559	3.862	4.120	10.36
T	1,2-Dibromo-3-chloropropane	—	—	—	0.122	0.124	0.123	0.089	0.095	0.085	0.106	17.48
T	1,2,4-Trichlorobenzene	0.555	0.595	0.684	0.669	0.625	0.751	0.529	0.507	0.505	0.602	14.39
T	Napthalene	—	1.473	1.466	1.414	1.396	1.534	1.140	1.149	1.087	1.332	13.29
T	Hexachlorobutadiene	0.360	0.402	0.419	0.432	0.359	0.423	0.308	0.275	0.282	0.362	17.02
T	1,2,3-Trichlorobenzene	0.414	0.439	0.511	0.521	0.503	0.579	0.415	0.392	0.382	0.462	14.82

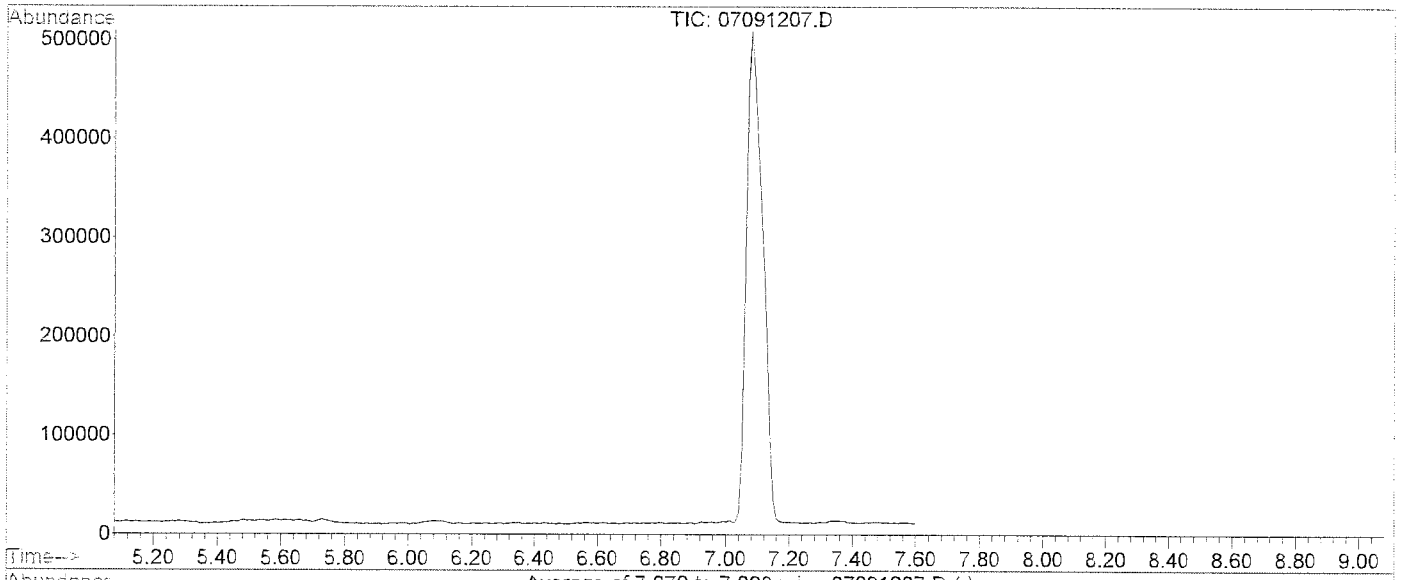
(#) = Out of Range

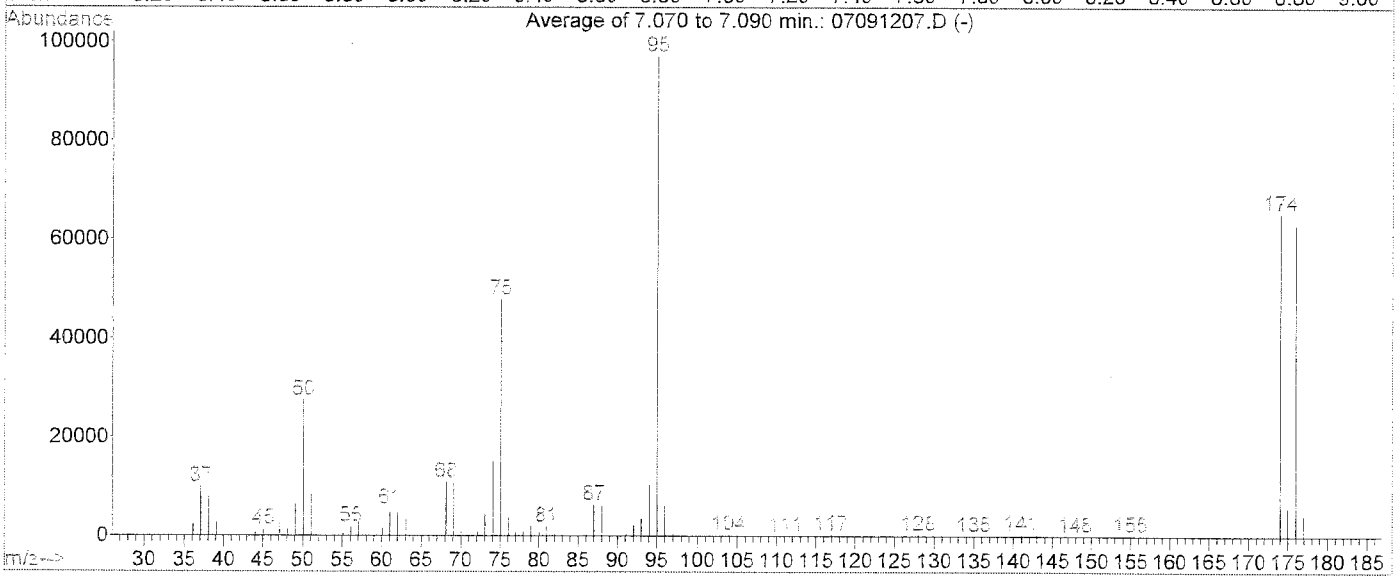
070912.M Wed Jul 11 08:24:45 2012

mm

BFB

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091207.D Vial: 1
Acq On : 9 Jul 2012 8:56 am Operator: MNM
Sample : TUNE Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration





Spectrum Information: Average of 7.070 to 7.090 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.2	27357	PASS
75	95	30	60	49.3	47821	PASS
95	95	100	100	100.0	97021	PASS
96	95	5	9	6.3	6127	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.3	65304	PASS
175	174	5	9	8.7	5666	PASS
176	174	95	101	96.4	62952	PASS
177	176	5	9	6.6	4141	PASS

MM 7/11/12

07091207.D 062612.M Mon Jul 09 16:06:04 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091210.D Vial: 4
Acq On : 9 Jul 2012 10:25 am Operator: MNM
Sample : BLANK Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:07 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	61496	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.67	168	145964	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	248661	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	173698	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	63447	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	61042	23.86 ug/L	-0.01
Spiked Amount 25.000			Recovery =	95.44%	
48) Toluene-d8	14.22	98	285415	24.93 ug/L	-0.01
Spiked Amount 25.000			Recovery =	99.72%	
62) 4-Bromofluorobenzene	17.88	95	78158	24.24 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.96%	
Target Compounds					Qvalue
2) Ethanol	5.99	45	564	11.00 ug/L	77
3) tert-Butanol (TBA)	7.57	59	752	1.91 ug/L #	68
8) 1,3-Butadiene	5.35	54	449	Below Cal #	45
9) Bromomethane	5.93	94	518	0.17 ug/L #	63
12) Acetone	6.97	43	4857	Below Cal	95
14) 1,1-Dichloroethene	7.55	96	1351	0.09 ug/L #	1
15) Methylene Chloride	7.73	84	246	Below Cal #	87
18) trans-1,2-Dichloroethene	8.65	96	329	Below Cal #	1
25) cis-1,2-Dichloroethene	9.75	96	568	Below Cal #	1
27) Chloroform	10.02	83	76	Below Cal #	61
28) 2,2-Dichloropropane	10.14	77	1017	Below Cal #	25
31) Tetrahydrofuran	10.46	72	92	Below Cal #	1
33) 1,1,1-Trichloroethane	10.99	97	383	Below Cal #	18
38) Benzene	11.52	78	1094	Below Cal	97
41) Trichloroethene	12.37	95	109	Below Cal #	1
42) Bromodichloromethane	12.46	83	688	Below Cal #	51
45) 4-Methyl-2-Pentanone (MIBK	13.31	43	452	Below Cal #	39
47) 1,1,2-Trichloroethane	14.03	97	809	0.21 ug/L #	17
51) 1,3-Dichloropropane	14.22	76	2966	0.48 ug/L #	49
52) 2-Hexanone	14.58	43	560	0.18 ug/L #	55
65) 1,1,2,2-Tetrachloroethane	17.33	83	174	Below Cal #	24
75) 1,2,4-Trimethylbenzene	19.36	105	98	Below Cal #	29
76) sec-Butylbenzene	19.55	105	195	Below Cal #	61
82) 1,2-Dibromo-3-chloropropan	20.73	75	90	Below Cal #	4

LCL

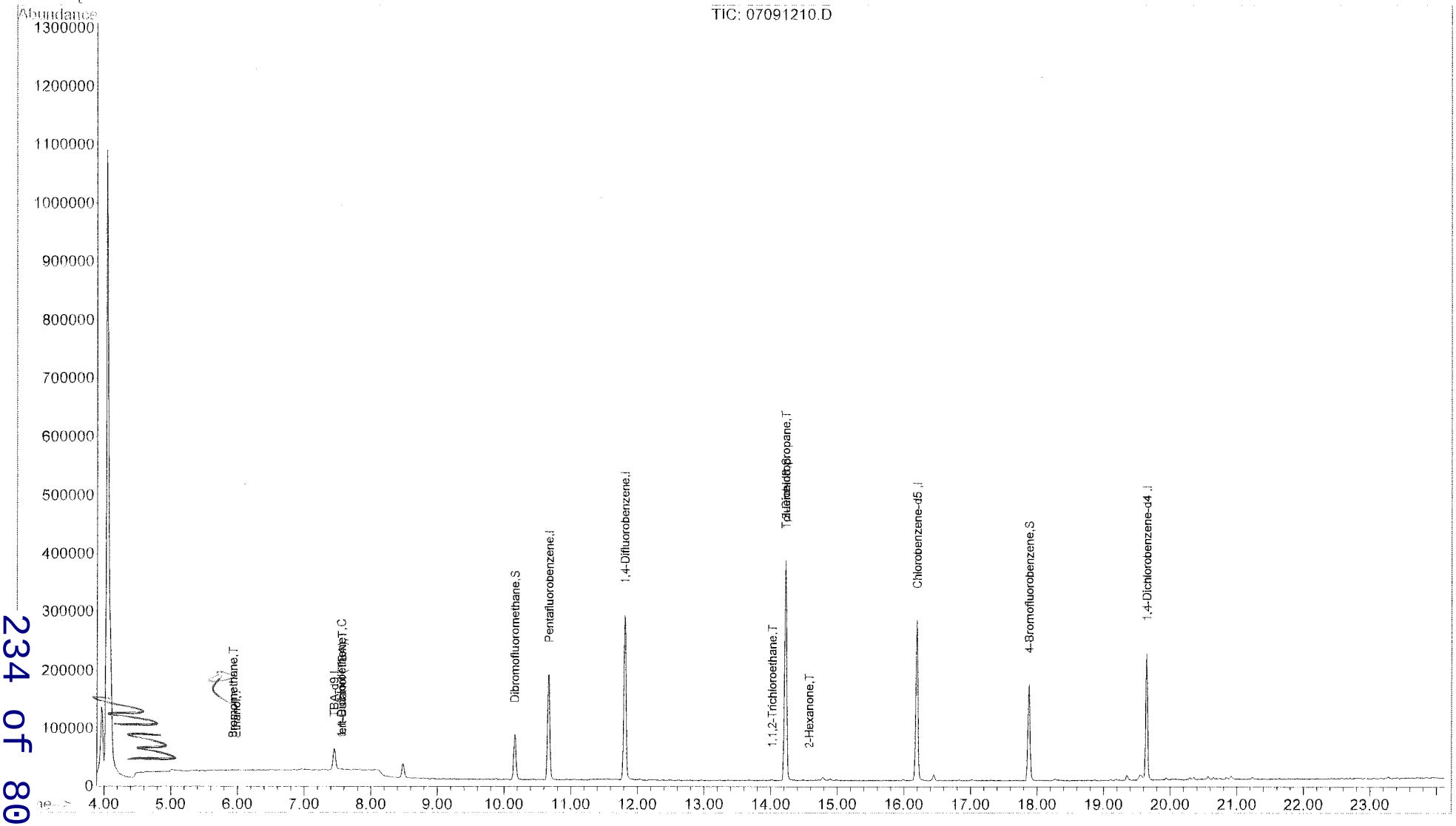
MM 7/11/12

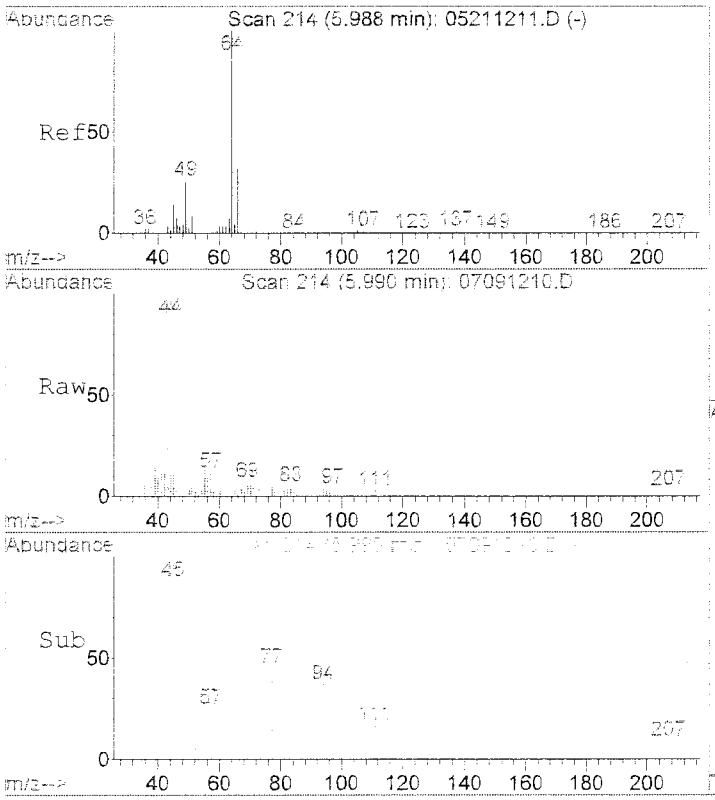
(#) = qualifier out of range (m) = manual integration
07091210.D 062612.M Mon Jul 09 16:07:26 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091210.D Vial: 4
Acq On : 9 Jul 2012 10:25 am Operator: MNM
Sample : BLANK Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:07 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

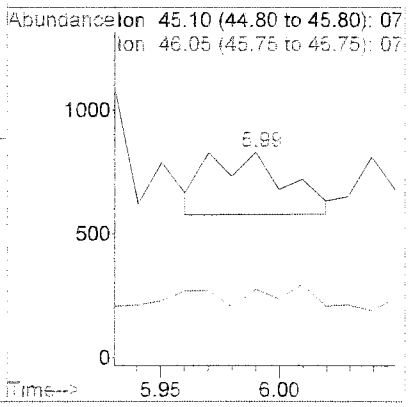


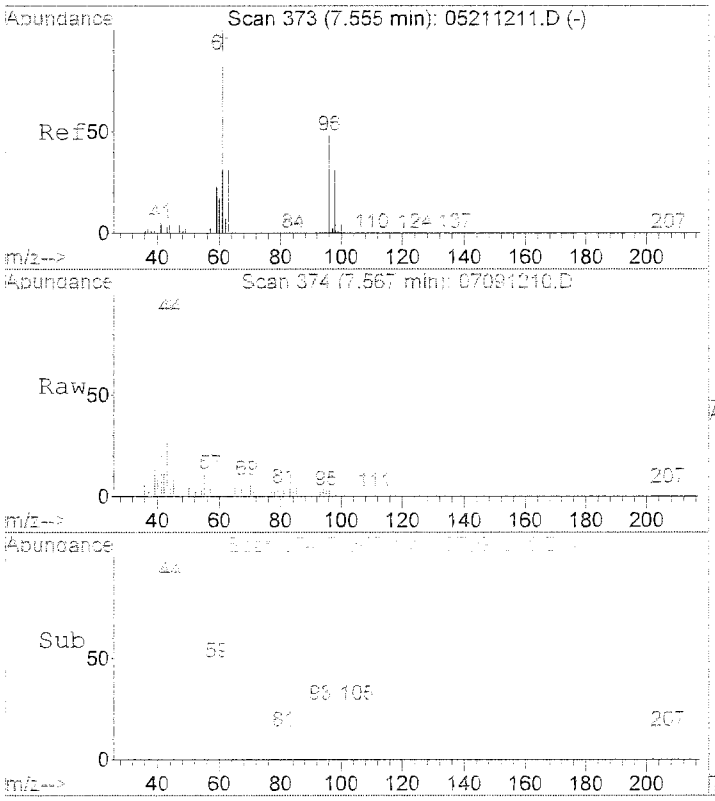


#2
Ethanol
Concen: 11.00 ug/L
RT: 5.99 min Scan# 214
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 45 Resp: 564

Ion	Ratio	Lower	Upper
45	100		
46	36.3	32.9	72.9

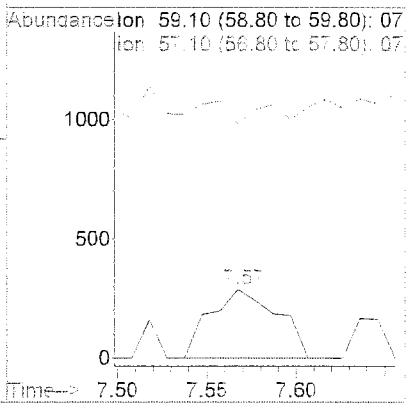




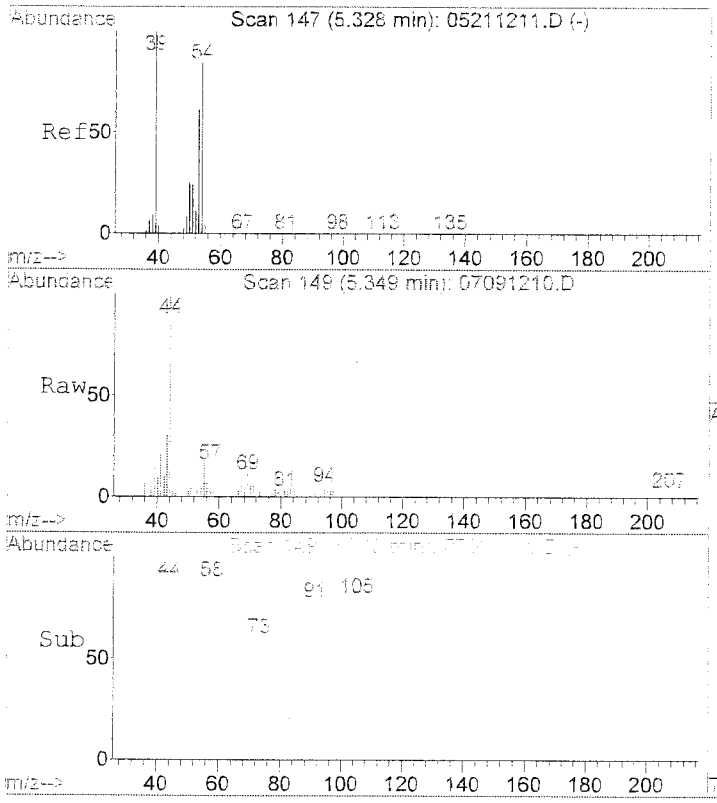
#3
tert-Butanol (TBA)
Concen: 1.91 ug/L
RT: 7.57 min Scan# 374
Delta R.T. -0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 59 Resp: 752

Ion	Ratio	Lower	Upper
59	100		
57	20.2	7.0	10.4#



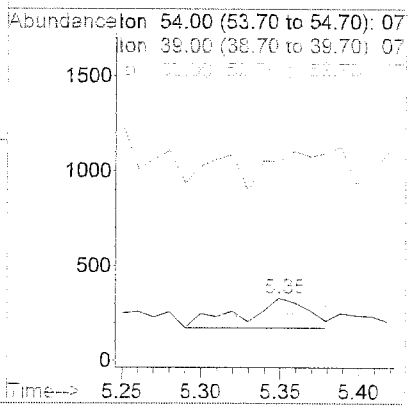
MM

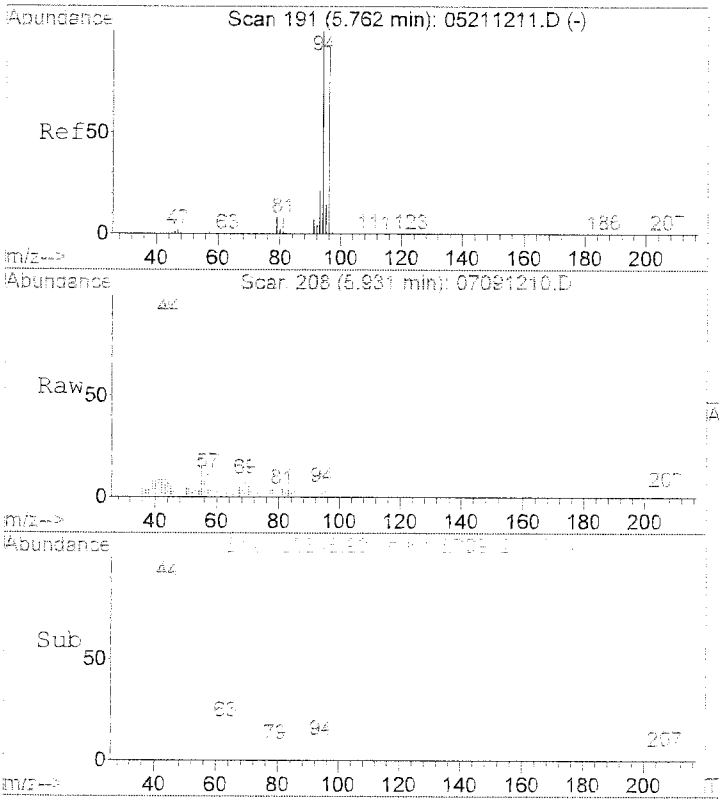


#8
1,3-Butadiene
Concen: Below Cal
RT: 5.35 min Scan# 149
Delta R.T. -0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 54 Resp: 449

Ion	Ratio	Lower	Upper
54	100		
39	66.4	96.4	144.6#
53	17.8	57.3	85.9#

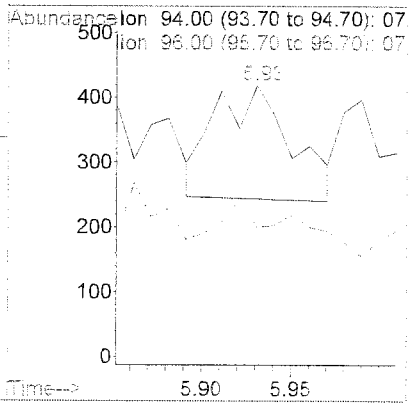




#9
Bromomethane
Concen: 0.17 ug/L
RT: 5.93 min Scan# 208
Delta R.T. 0.14 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 94 Resp: 518

Ion	Ratio	Lower	Upper
94	100		
96	57.9	74.9	112.3#



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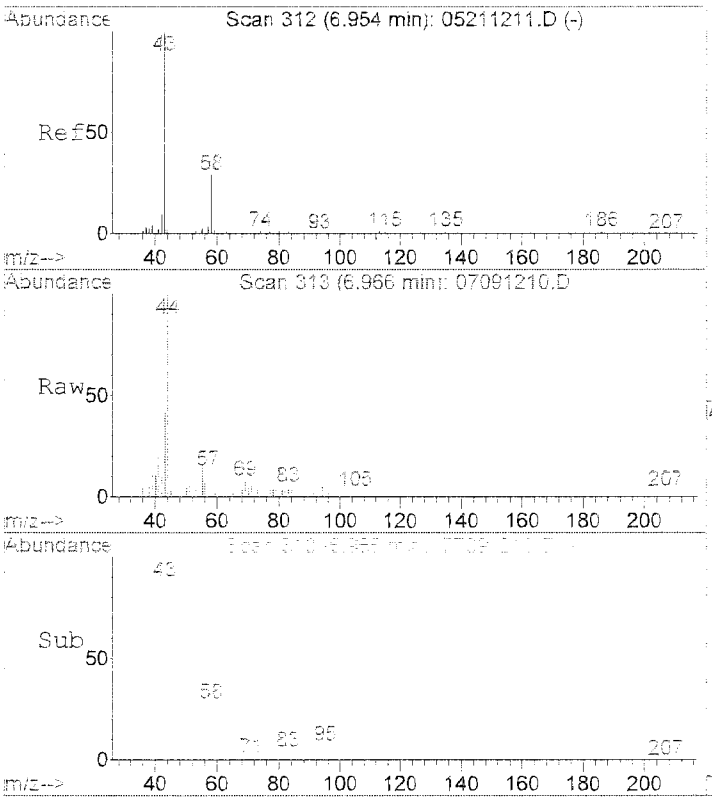
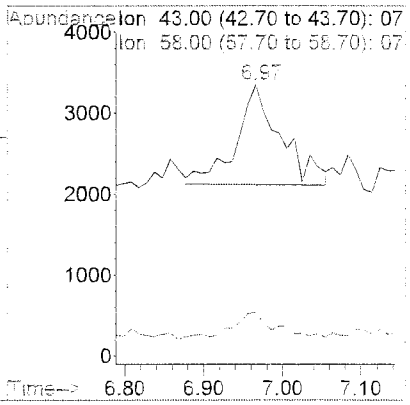
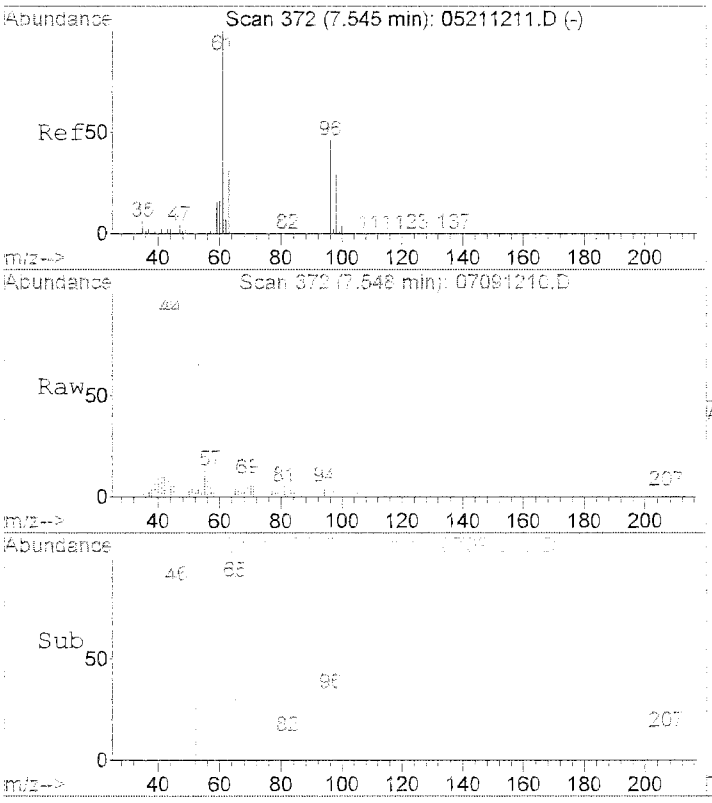


#12
Acetone
Concen: Below Cal
RT: 6.97 min Scan# 313
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 4857

Ion	Ratio	Lower	Upper
43	100		
58	30.8	22.7	34.1

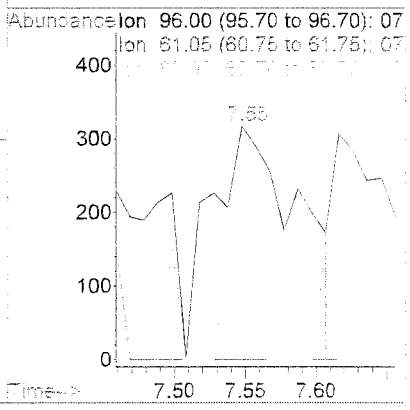


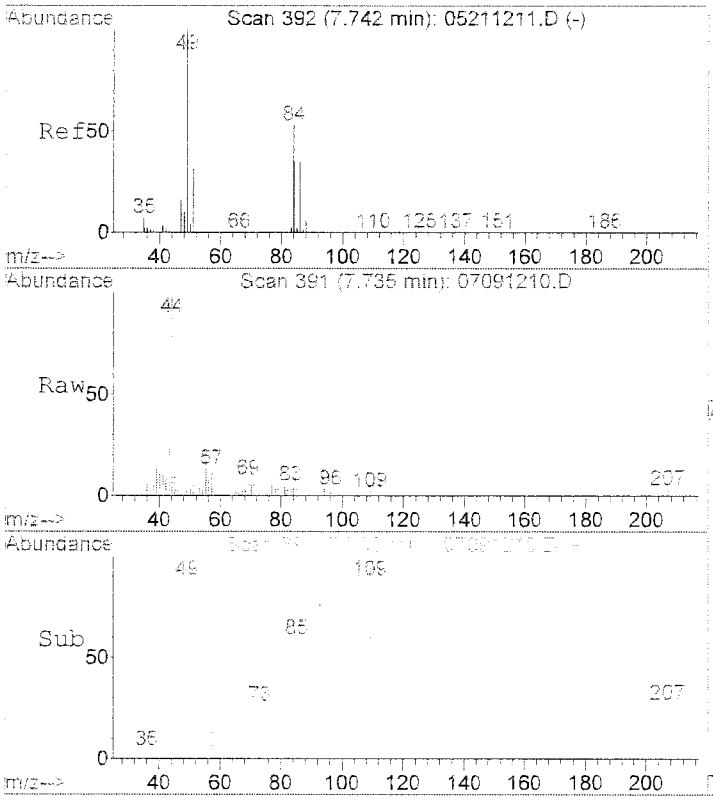


#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 7.55 min Scan# 372
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	0.0	166.5	249.7#
63	15.4	53.4	80.2#

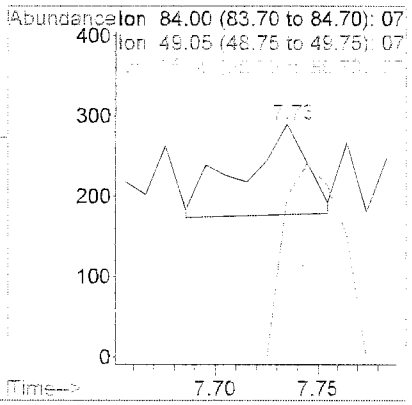


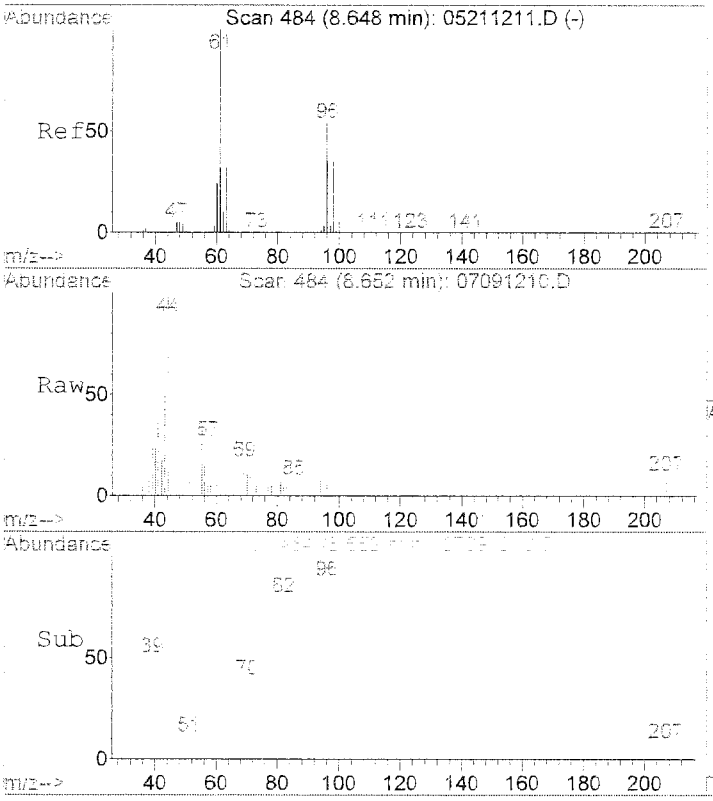


#15
Methylene Chloride
Concen: Below Cal
RT: 7.73 min Scan# 391
Delta R.T. -0.03 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 84 Resp: 246

Ion	Ratio	Lower	Upper
84	100		
49	193.9	149.0	223.4
86	36.2	50.6	76.0#

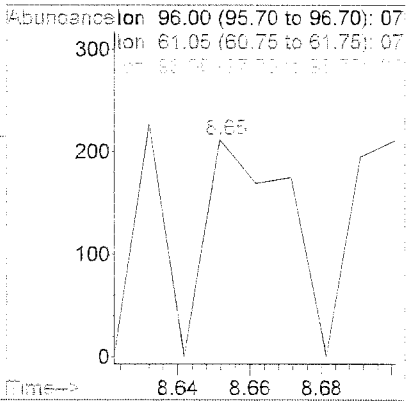




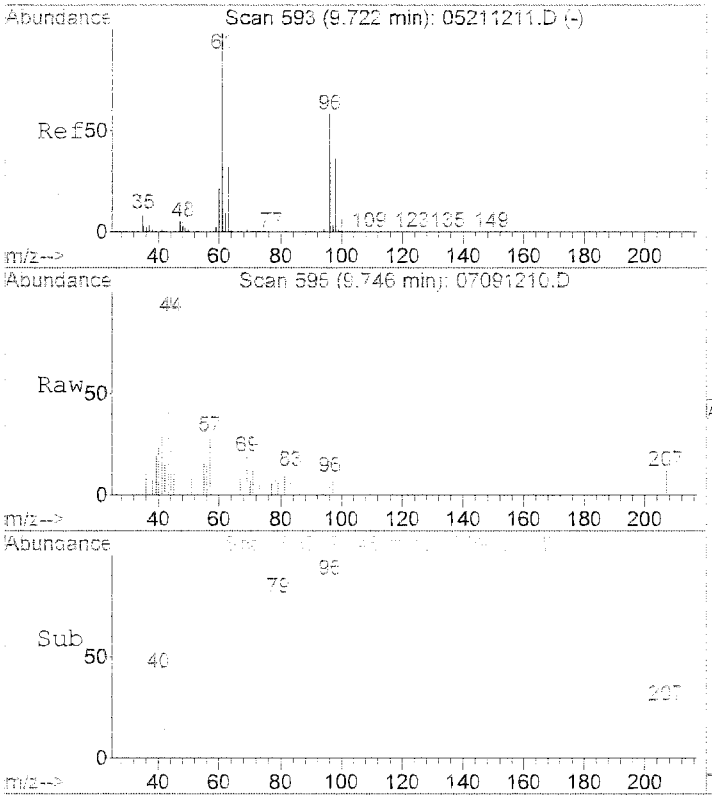
#18
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 8.65 min Scan# 484
Delta R.T. -0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 96 Resp: 329

Ion	Ratio	Lower	Upper
96	100		
61	0.0	147.3	220.9#
98	0.0	50.1	75.1#



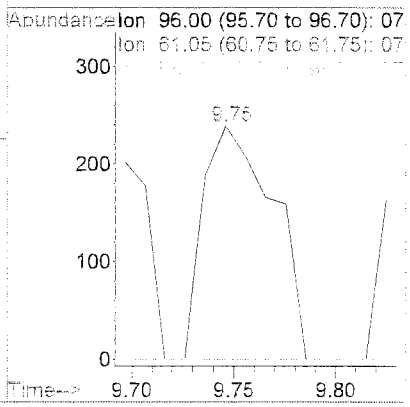
MM

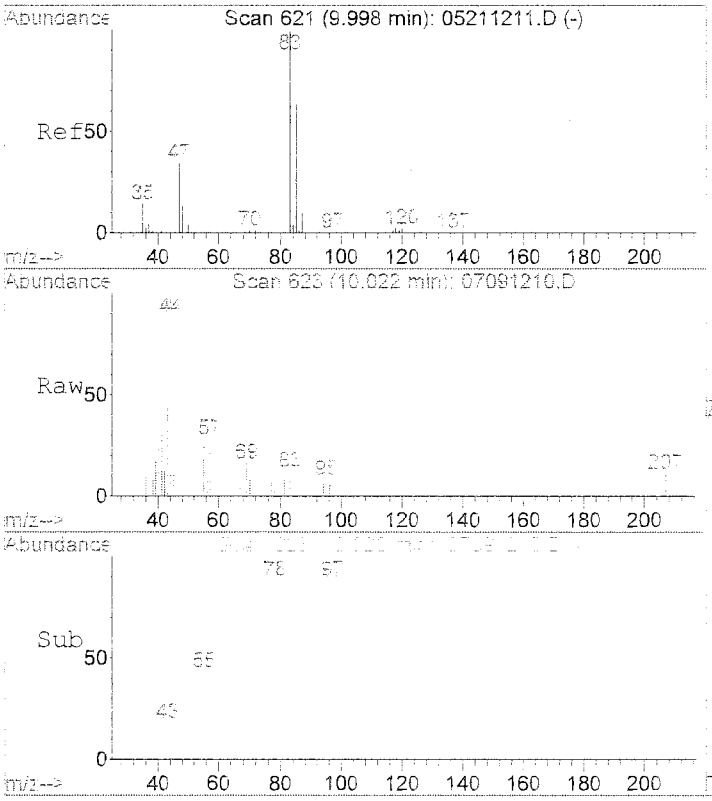


#25
cis-1,2-Dichloroethene
Concen: Below Cal
RT: 9.75 min Scan# 595
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 96 Resp: 568

Ion	Ratio	Lower	Upper
96	100		
61	0.0	135.4	203.2#
98	0.0	51.3	76.9#

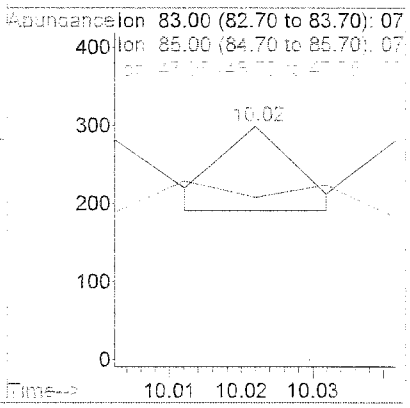


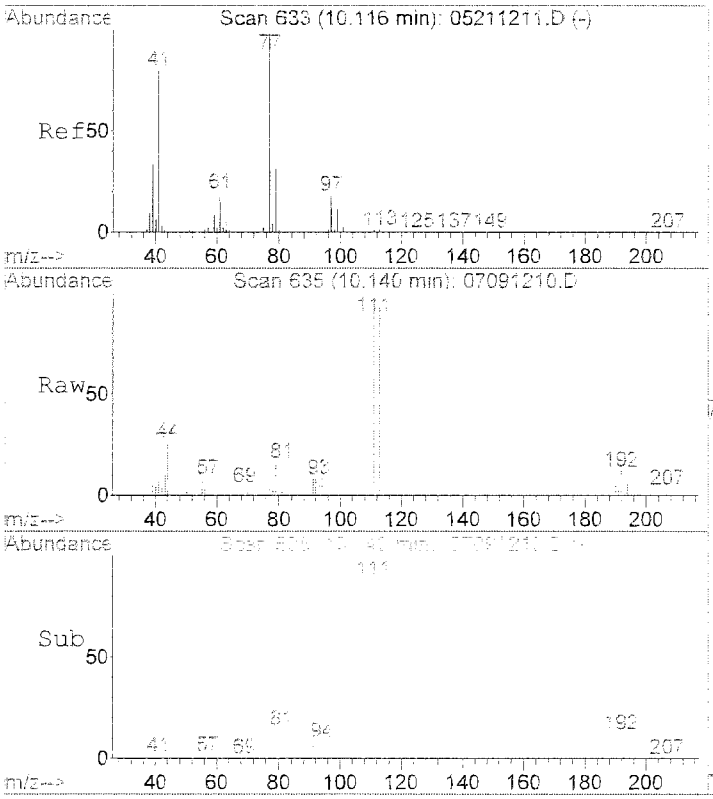


#27
Chloroform
Concen: Below Cal
RT: 10.02 min Scan# 623
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 83 Resp: 76

Ion	Ratio	Lower	Upper
83	100		
85	86.8	51.6	77.4#
47	0.0	27.7	41.5#

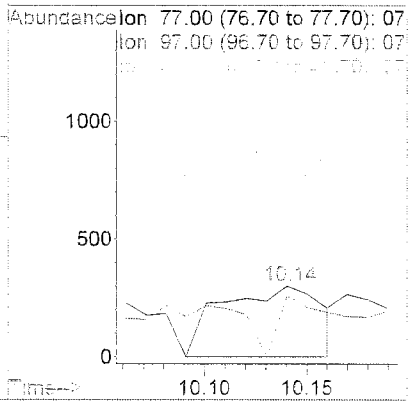


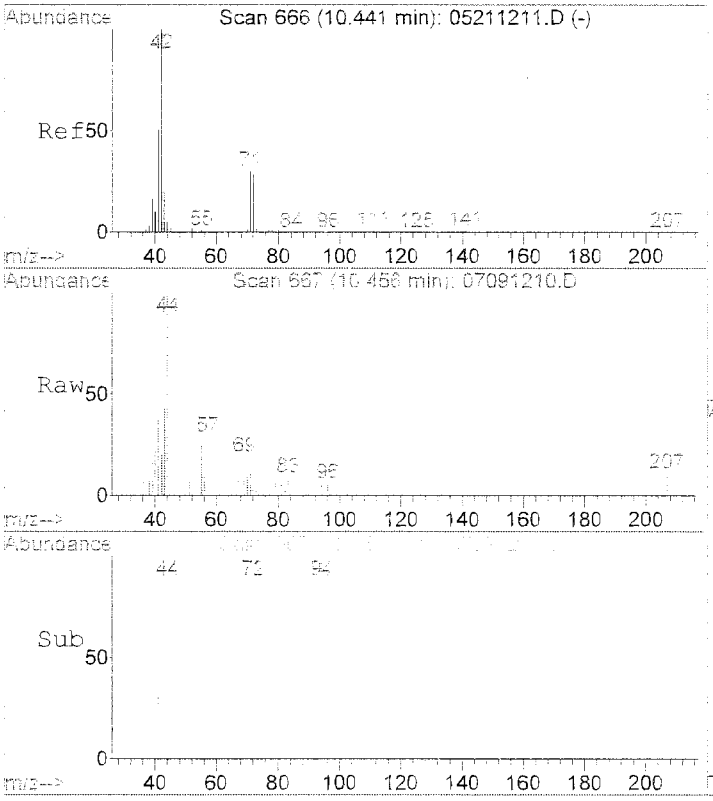


#28
2,2-Dichloropropane
Concen: Below Cal
RT: 10.14 min Scan# 635
Delta R.T. 0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 77 Resp: 1017

Ion	Ratio	Lower	Upper
77	100		
97	78.4	17.1	25.7#
41	26.2	67.1	100.7#

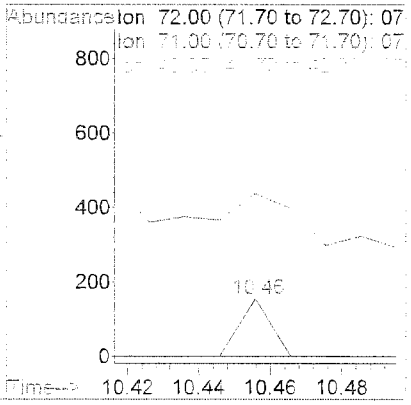


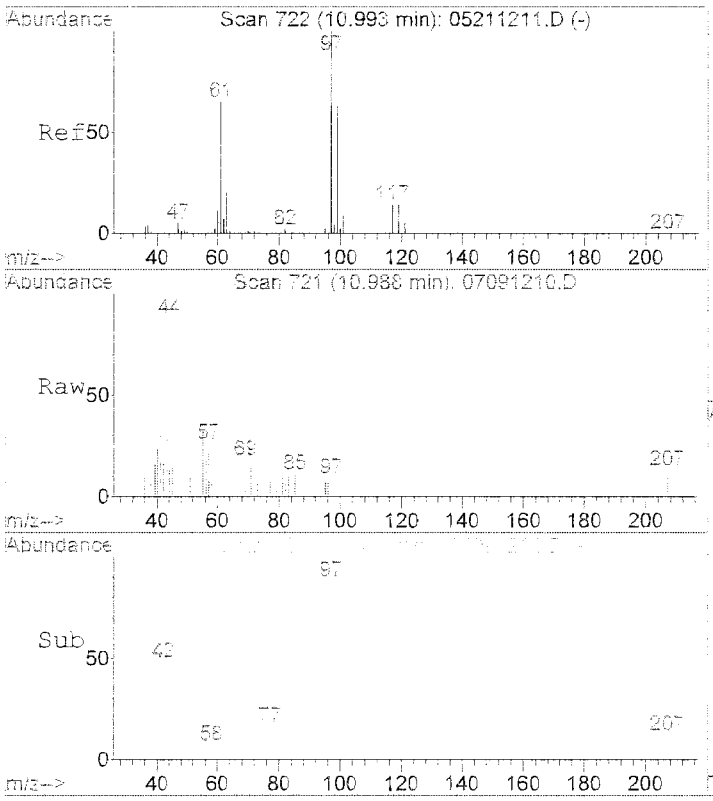


#31
Tetrahydrofuran
Concen: Below Cal
RT: 10.46 min Scan# 667
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 72 Resp: 92

Ion	Ratio	Lower	Upper
72	100		
71	180.4	82.5	123.7#
42	1195.7	285.0	427.4#

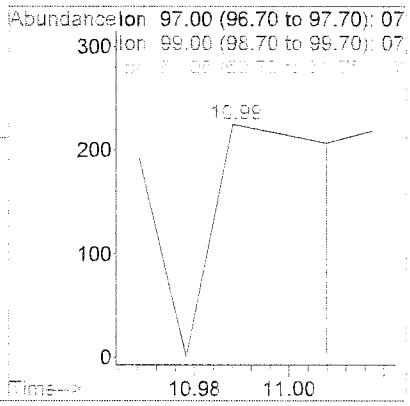


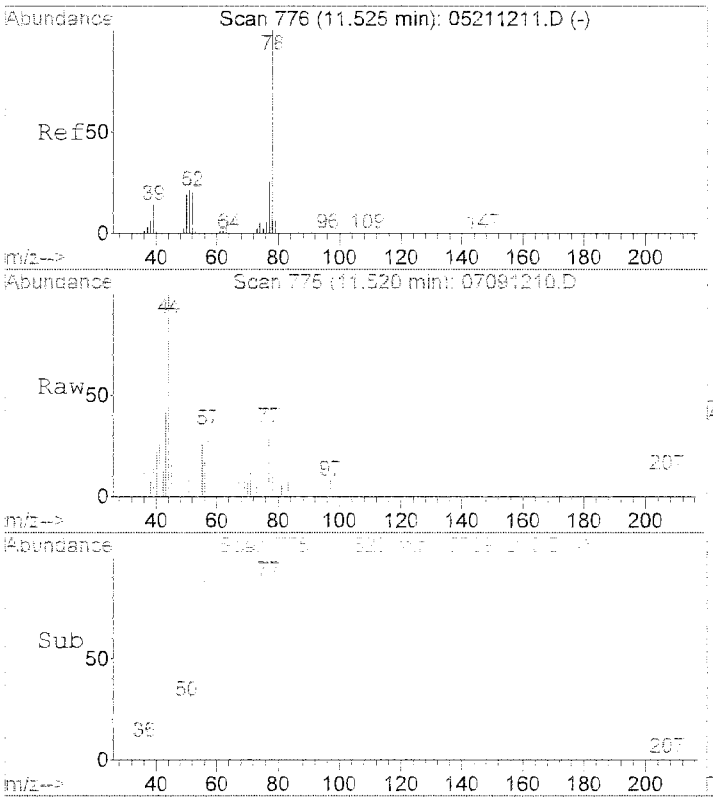


#33
1,1,1-Trichloroethane
Concen: Below Cal
RT: 10.99 min Scan# 721
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 97 Resp: 383

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.4	75.6#
61	0.0	52.1	78.1#

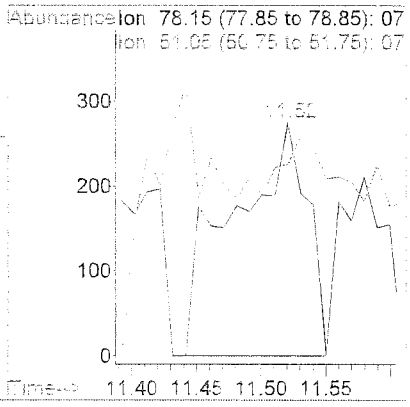


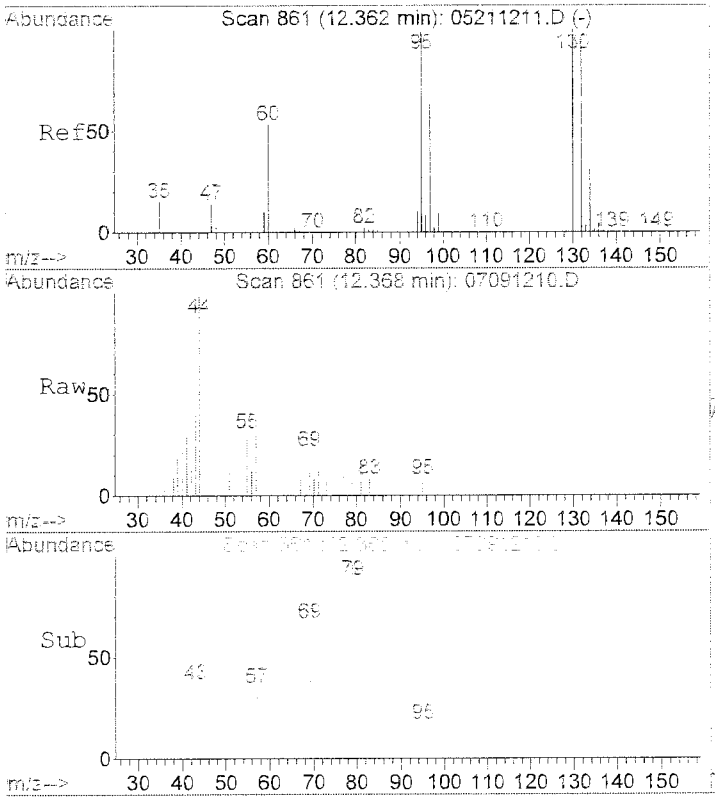


#38
Benzene
Concen: Below Cal
RT: 11.52 min Scan# 775
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 78 Resp: 1094

Ion	Ratio	Lower	Upper
78	100		
51	18.5	15.8	23.8

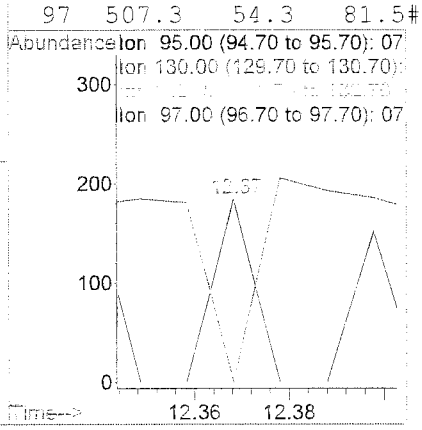


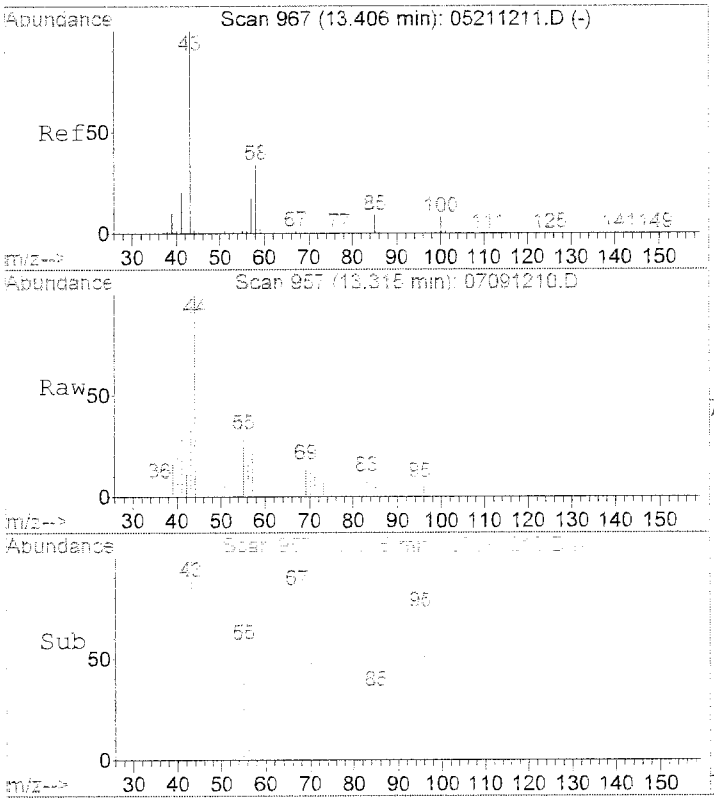


#41
Trichloroethene
Concen: Below Cal
RT: 12.37 min Scan# 861
Delta R.T. -0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 95 Resp: 109

Ion	Ratio	Lower	Upper
95	100		
130	0.0	77.4	116.2#
132	0.0	73.6	110.4#
97	507.3	54.3	81.5#

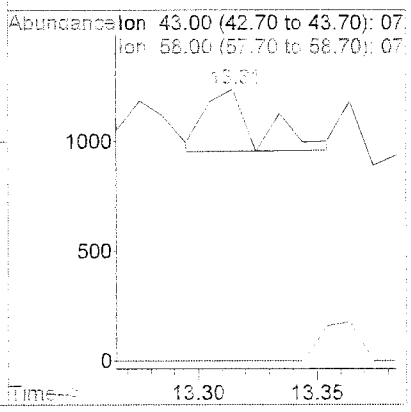




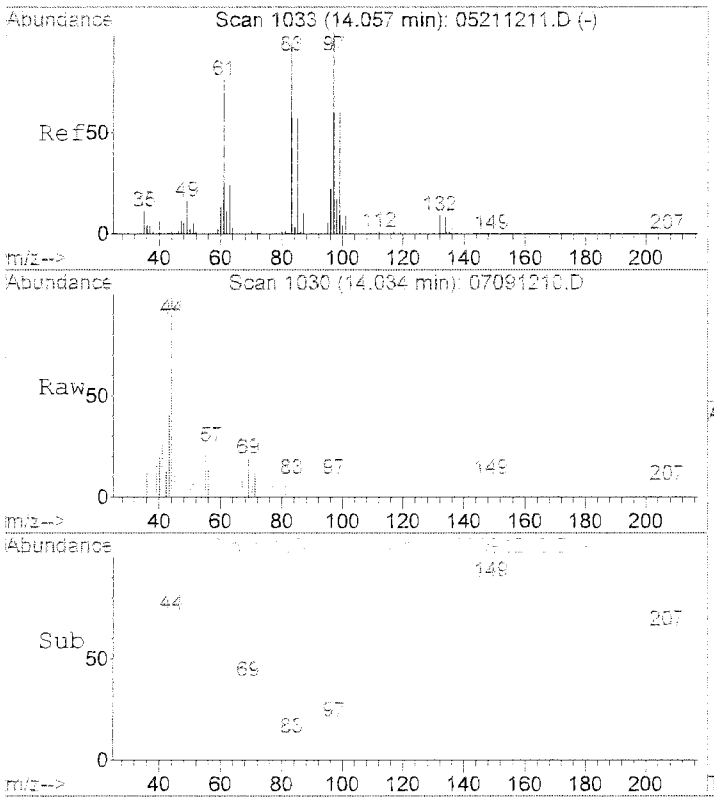
#45
4-Methyl-2-Pentanone (MIBK)
Concen: Below Cal
RT: 13.31 min Scan# 957
Delta R.T. -0.10 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 452

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.4#



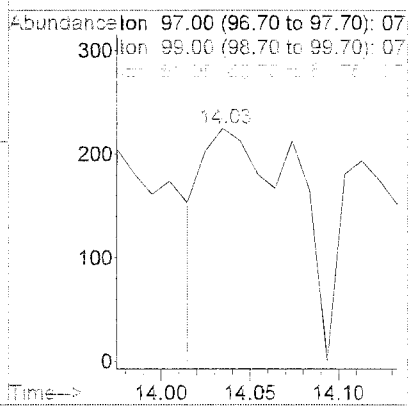
MM

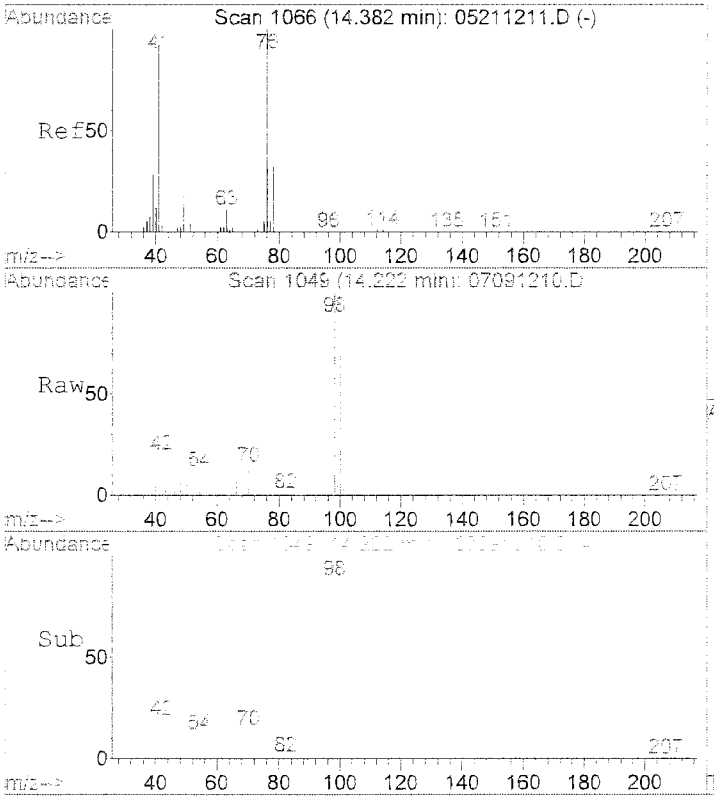


#47
1,1,2-Trichloroethane
Concen: 0.21 ug/L
RT: 14.03 min Scan# 1030
Delta R.T. -0.03 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 97 Resp: 809

Ion	Ratio	Lower	Upper
97	100		
99	0.0	48.9	73.3#
61	0.0	57.0	85.6#

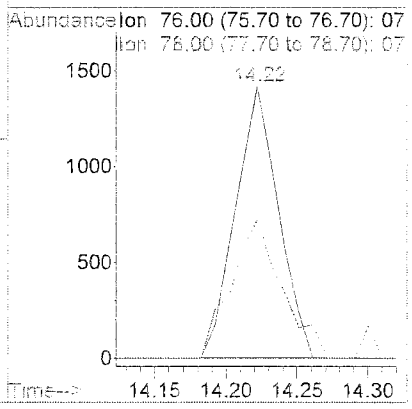




#51
1,3-Dichloropropane
Concen: 0.48 ug/L
RT: 14.22 min Scan# 1049
Delta R.T. -0.17 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 76 Resp: 2966

Ion	Ratio	Lower	Upper
76	100		
78	60.5	25.6	38.4#



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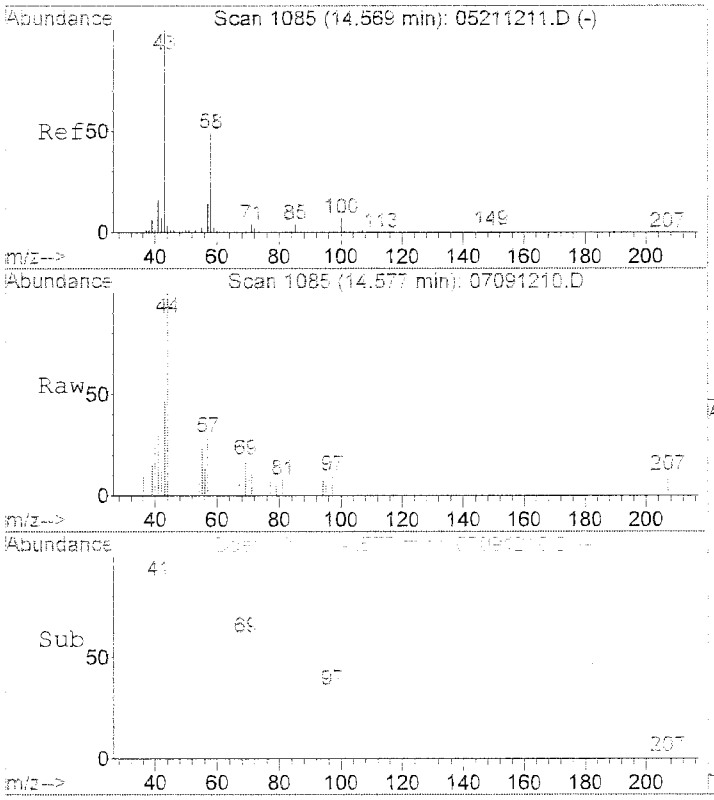
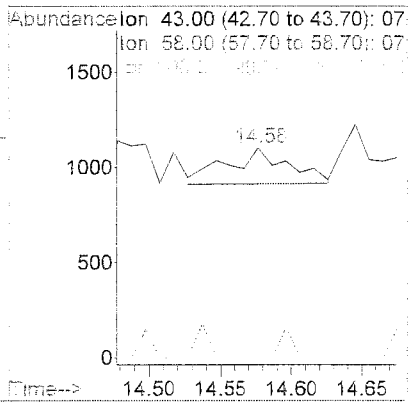
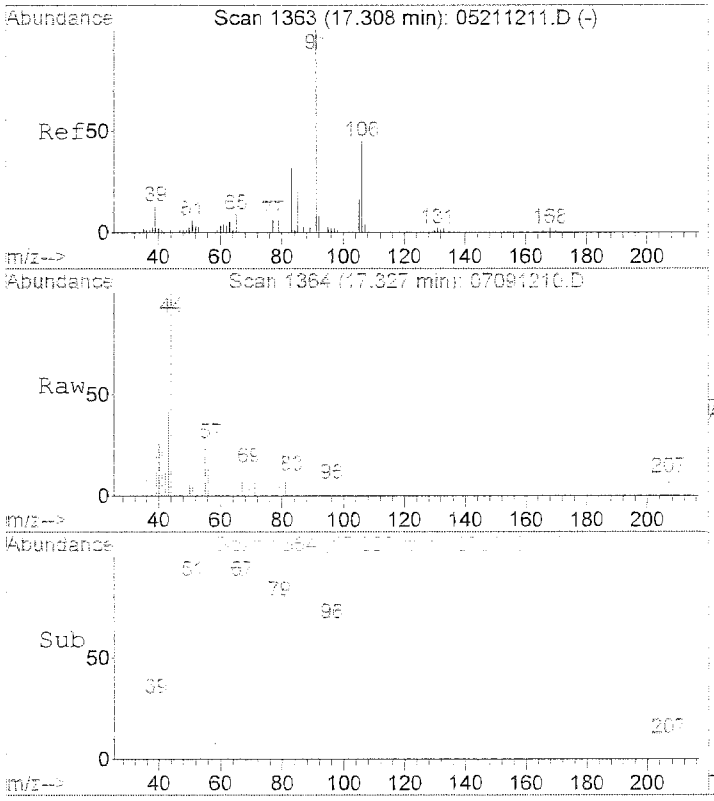


#52
2-Hexanone
Concen: 0.18 ug/L
RT: 14.58 min Scan# 1085
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 560

Ion	Ratio	Lower	Upper
43	100		
58	16.6	39.8	59.6#
100	0.0	5.2	7.8#

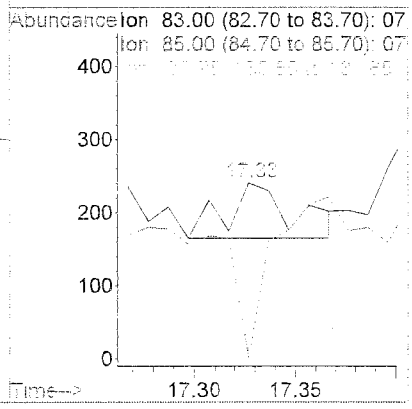


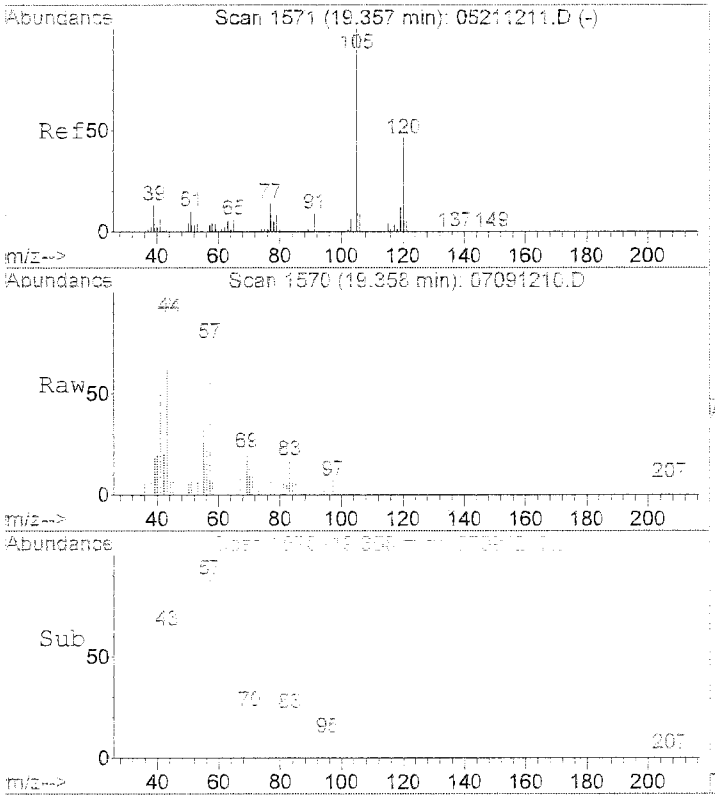


#65
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 17.33 min Scan# 1364
Delta R.T. 0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 83 Resp: 174

Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.9	76.3#
131	0.0	5.4	8.0#

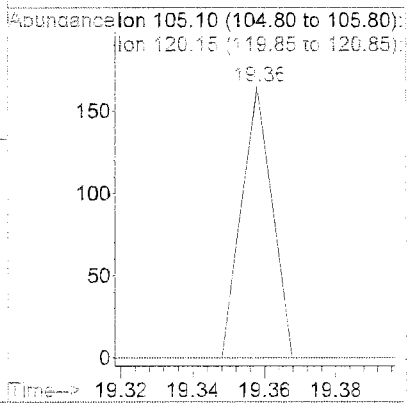


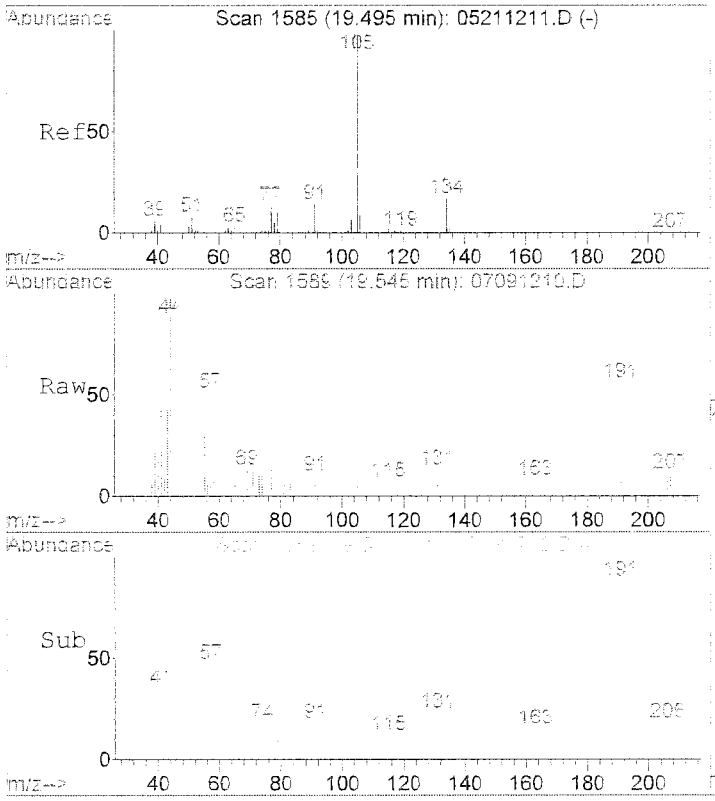


#75
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 19.36 min Scan# 1570
Delta R.T. 0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion:105 Resp: 98

Ion	Ratio	Lower	Upper
105	100		
120	0.0	38.5	57.7#

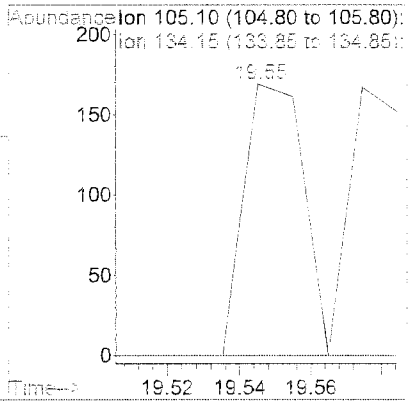


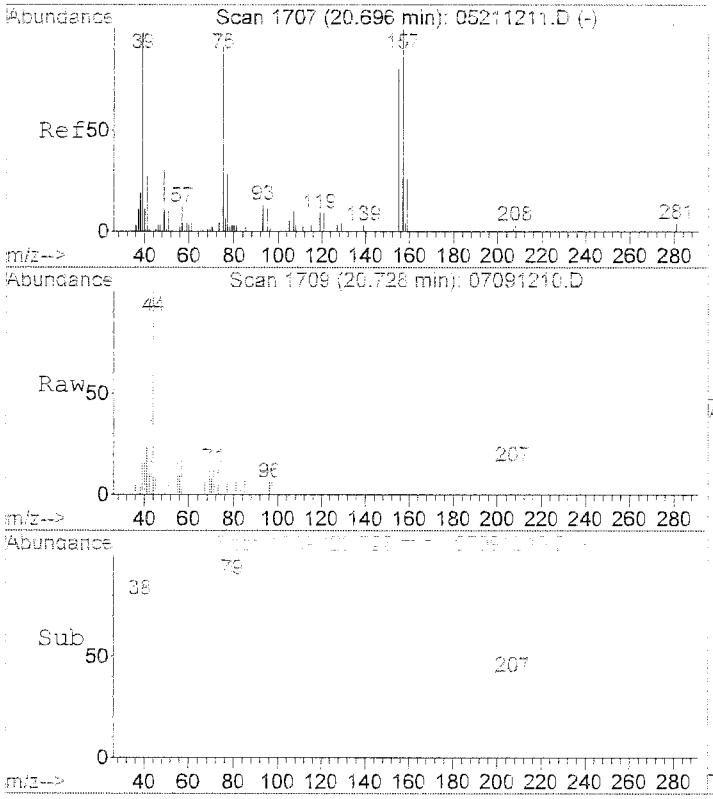


#76
sec-Butylbenzene
Concen: Below Cal
RT: 19.55 min Scan# 1589
Delta R.T. 0.05 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion:105 Resp: 195

Ion	Ratio	Lower	Upper
105	100		
134	0.0	13.6	20.4#

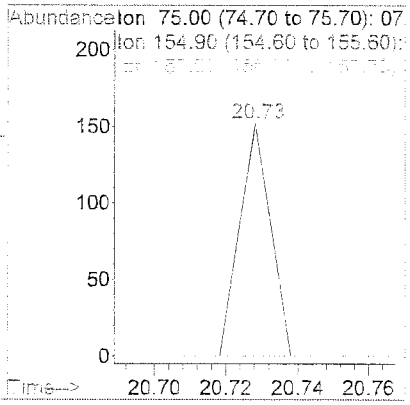




#82
1,2-Dibromo-3-chloropropane
Concen: Below Cal
RT: 20.73 min Scan# 1709
Delta R.T. 0.03 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 75 Resp: 90

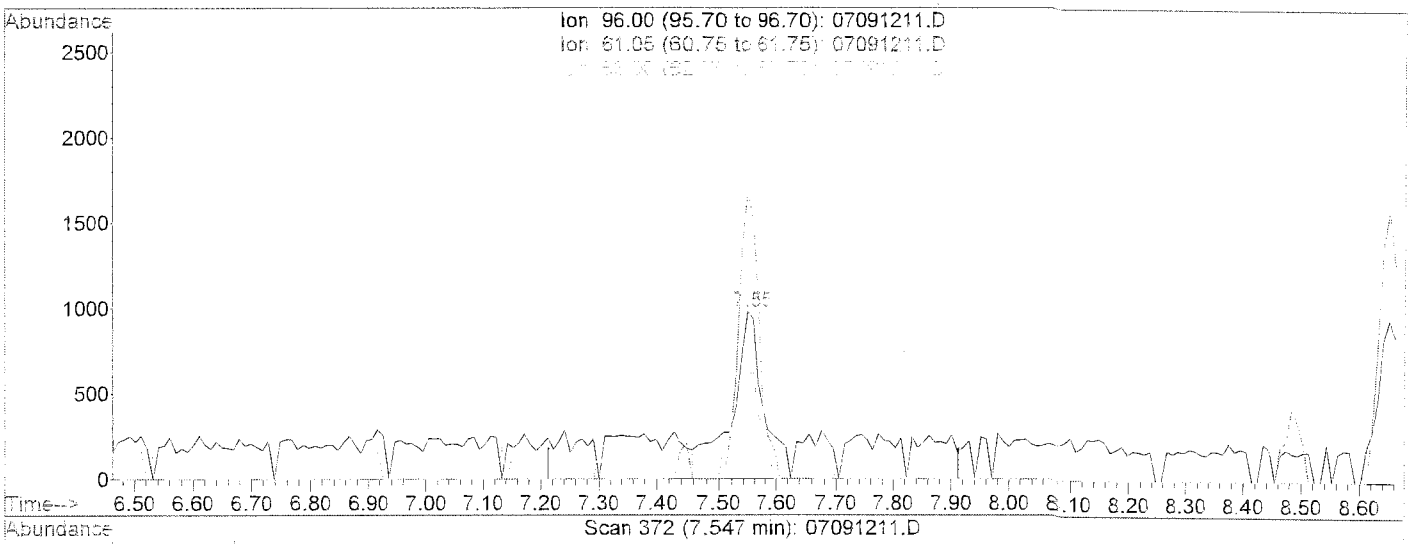
Ion	Ratio	Lower	Upper
75	100		
155	0.0	64.2	96.4#
157	0.0	80.5	120.7#

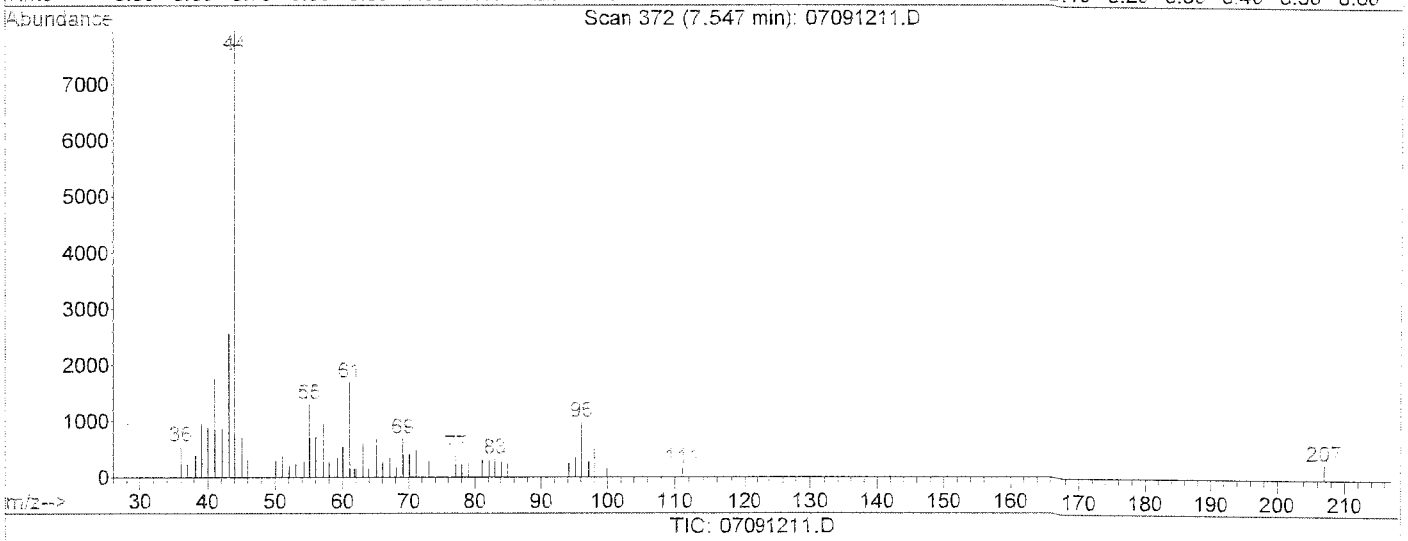


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:08 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(14) 1,1-Dichloroethene (C)

7.55min 0.76ug/L

response 3771

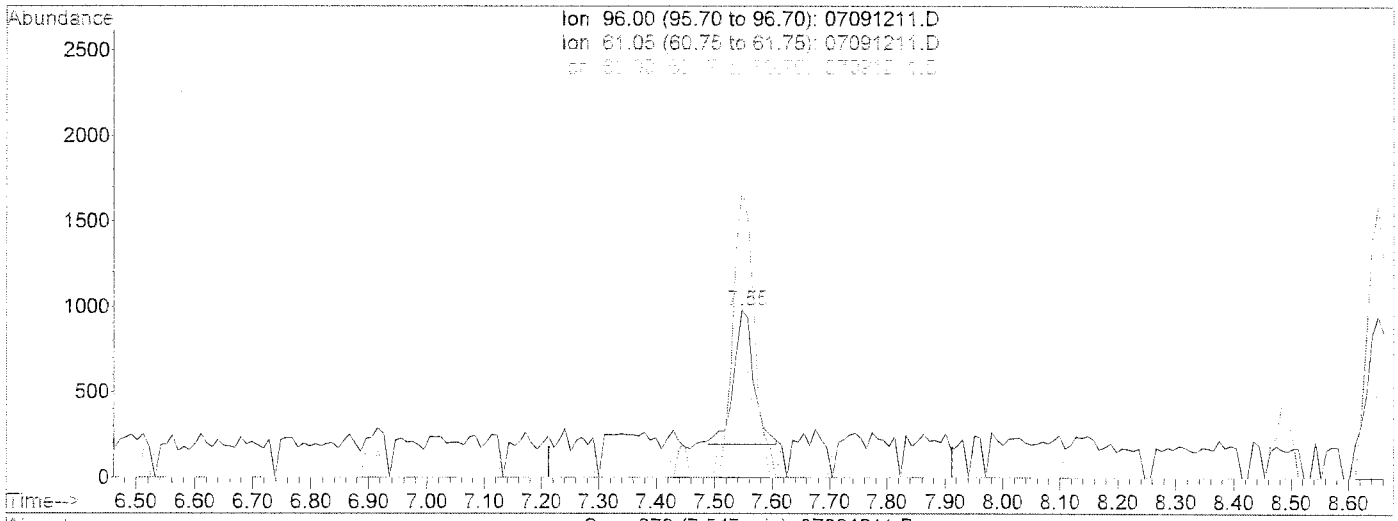
Ion	Exp%	Act%
96.00	100	100
61.05	208.10	114.29#
63.00	66.80	51.13#
0.00	0.00	0.00

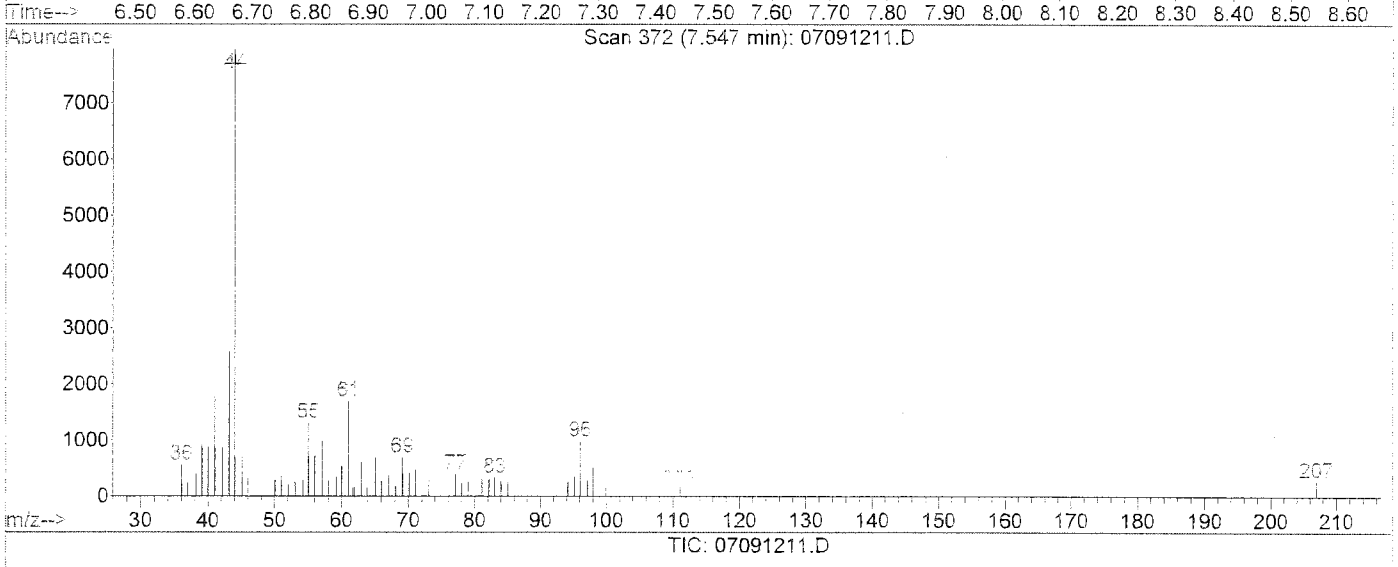
B
BL
mm
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:08 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(14) 1,1-Dichloroethene (C)

7.55min 0.25ug/L m

response 1900

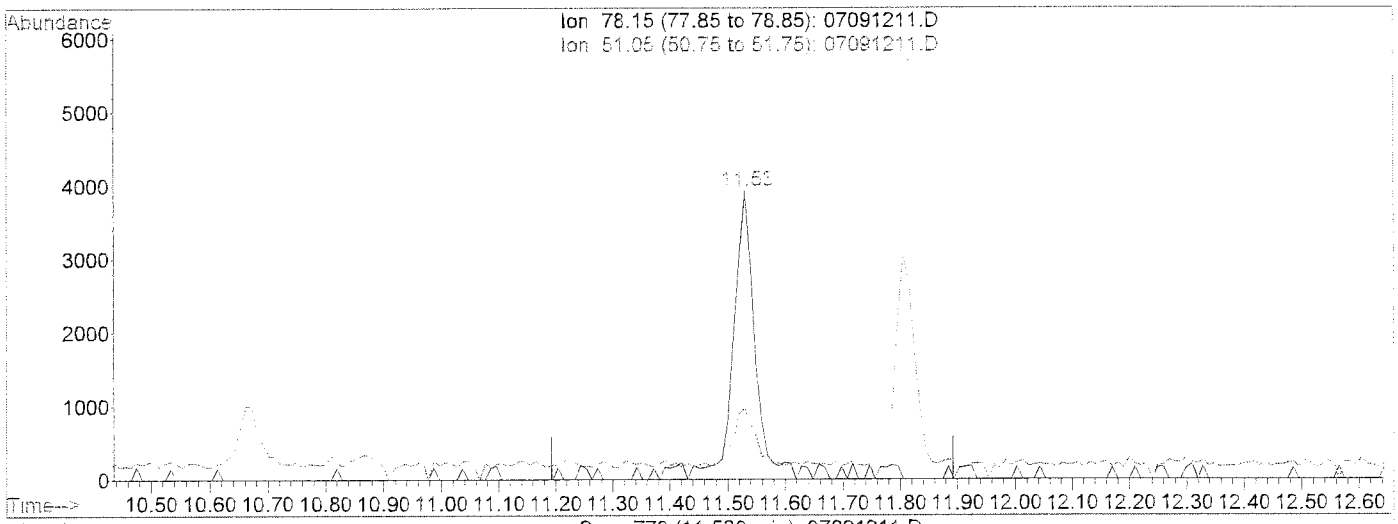
Ion	Exp%	Act%
96.00	100	100
61.05	208.10	226.84
63.00	66.80	101.47#
0.00	0.00	0.00

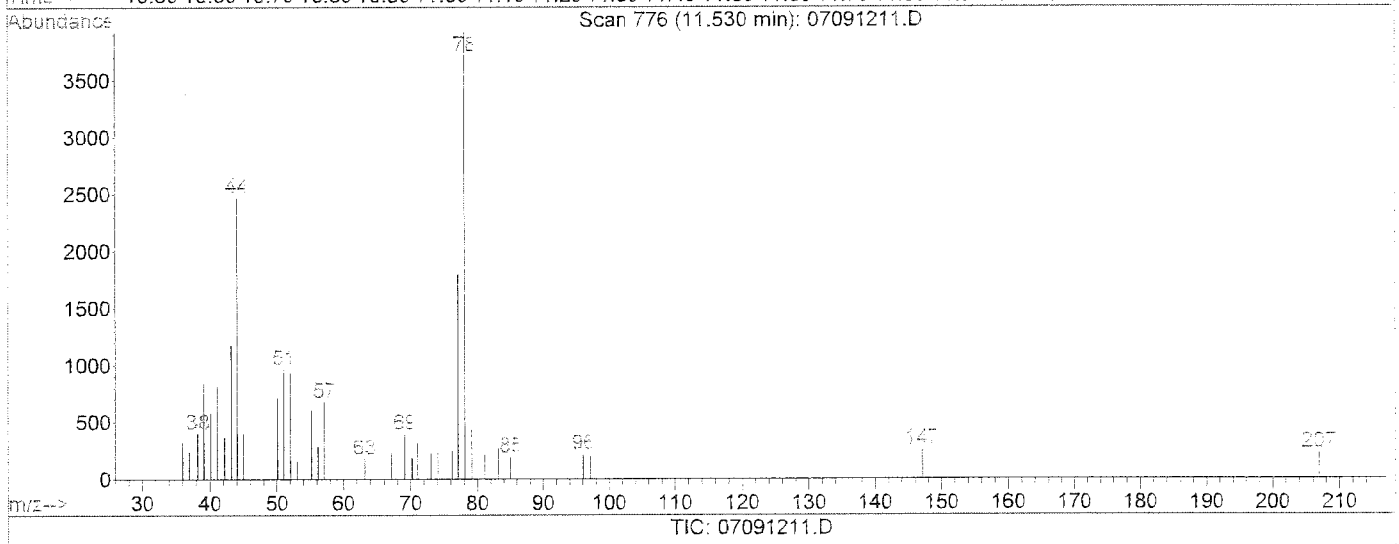
A
mm
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:08 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(38) Benzene (T)

11.53min 0.24ug/L

response 10213

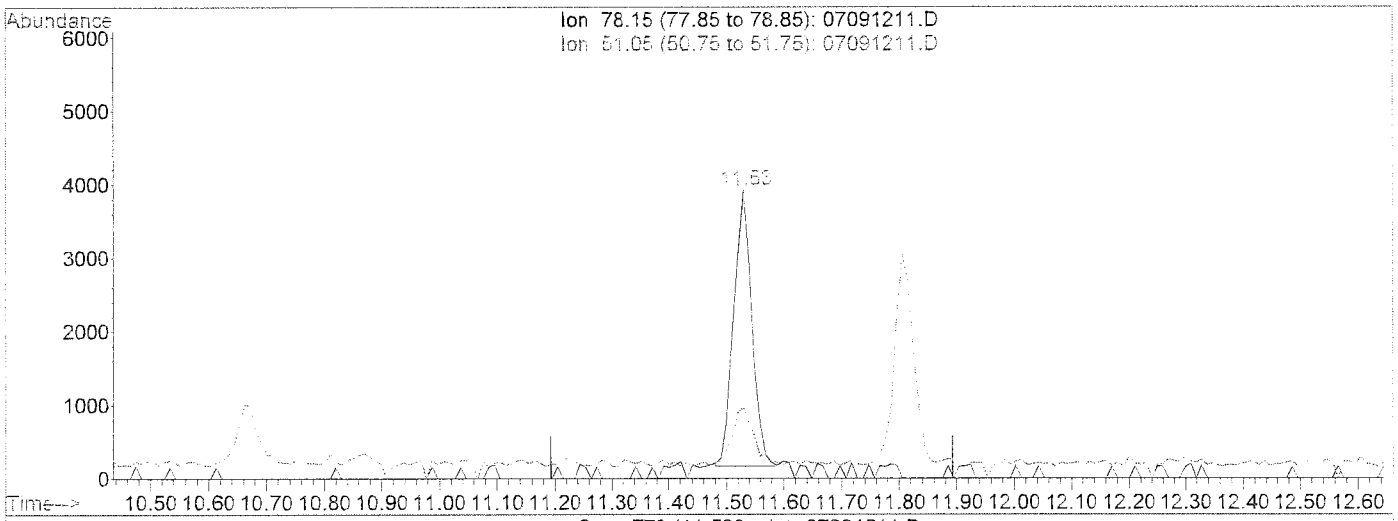
Ion	Exp%	Act%
78.15	100	100
51.05	19.80	21.02
0.00	0.00	0.00
0.00	0.00	0.00

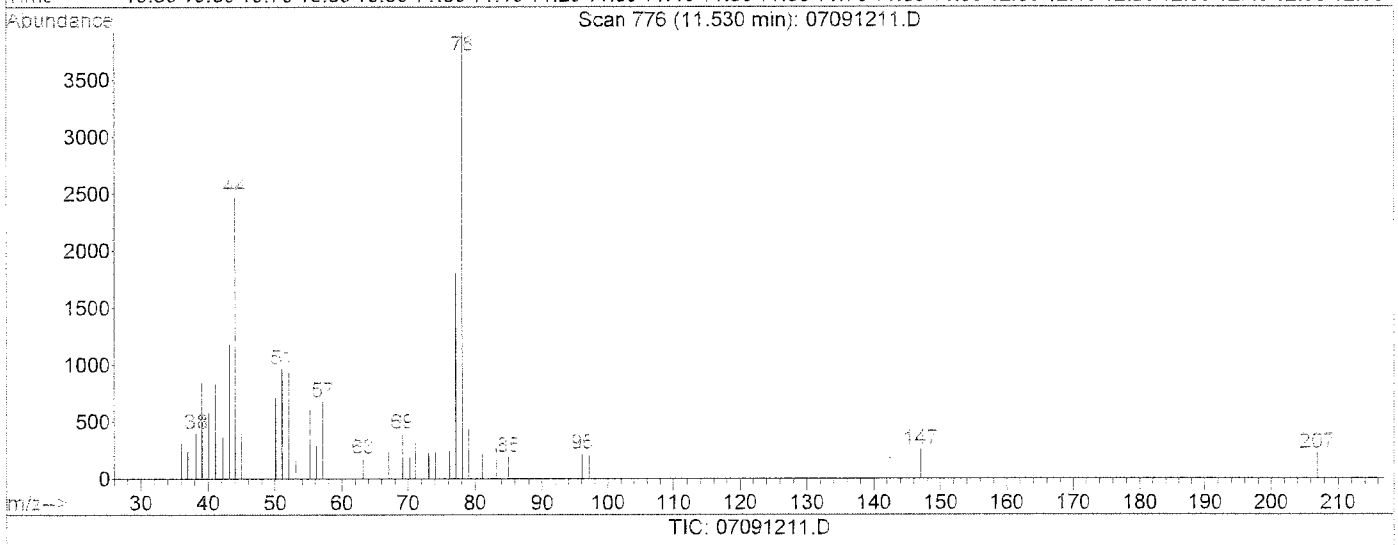
B
BL
mm 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(38) Benzene (T)

11.53min 0.12ug/L m

response 8335

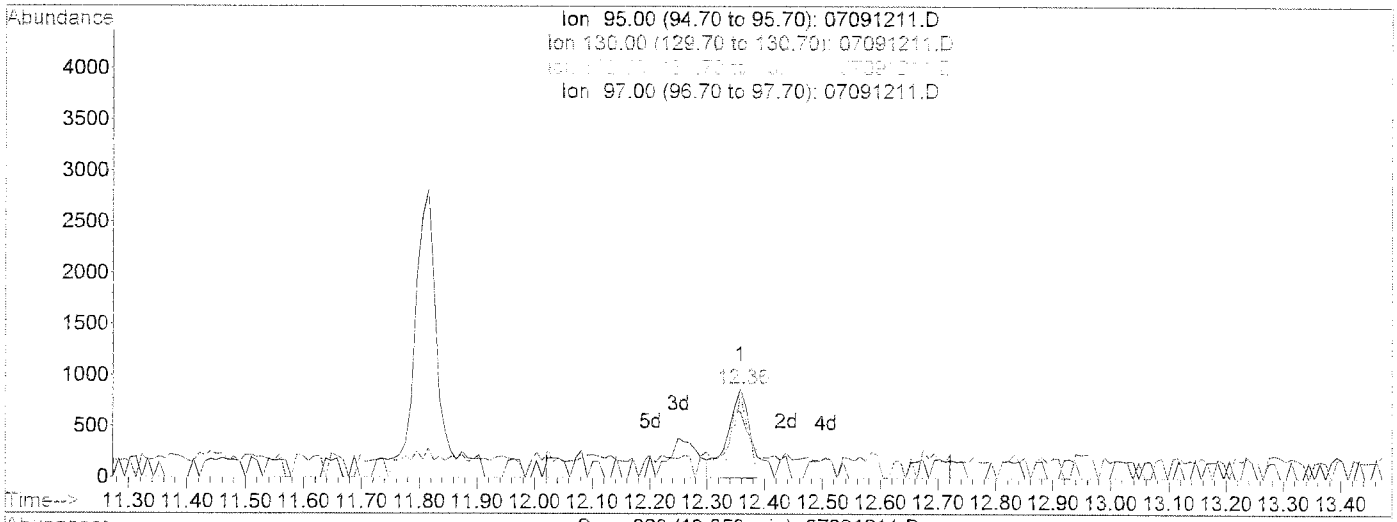
Ion	Exp%	Act%
78.15	100	100
51.05	19.80	25.76#
0.00	0.00	0.00
0.00	0.00	0.00

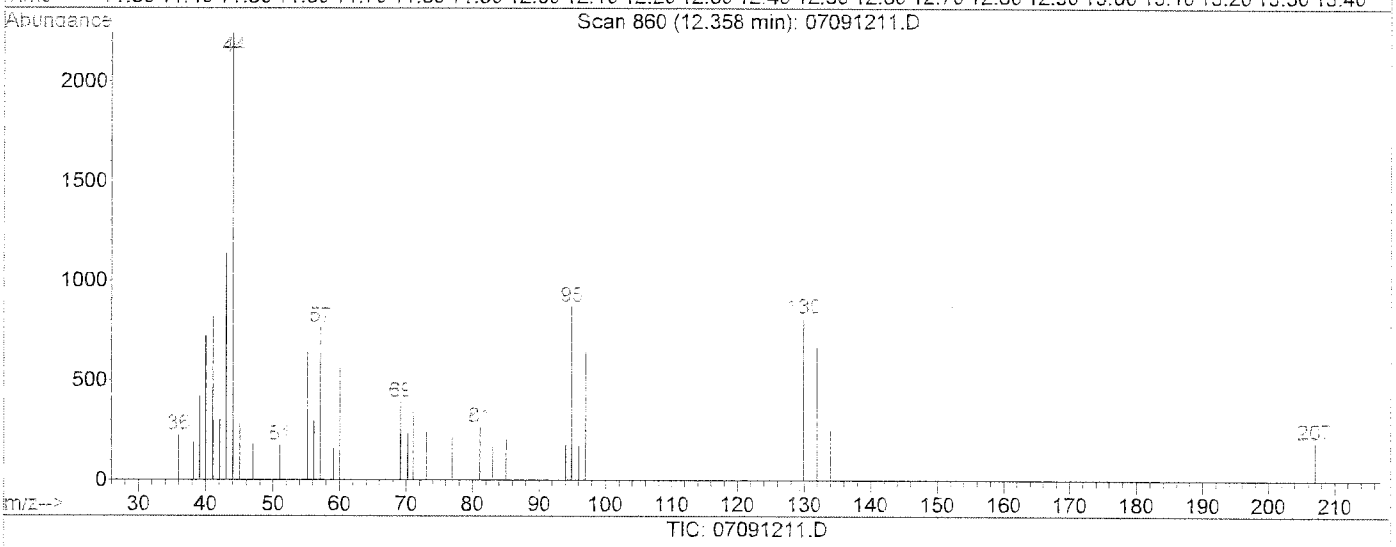
A
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(41) Trichloroethene (T)

12.36min 0.37ug/L

response 2552

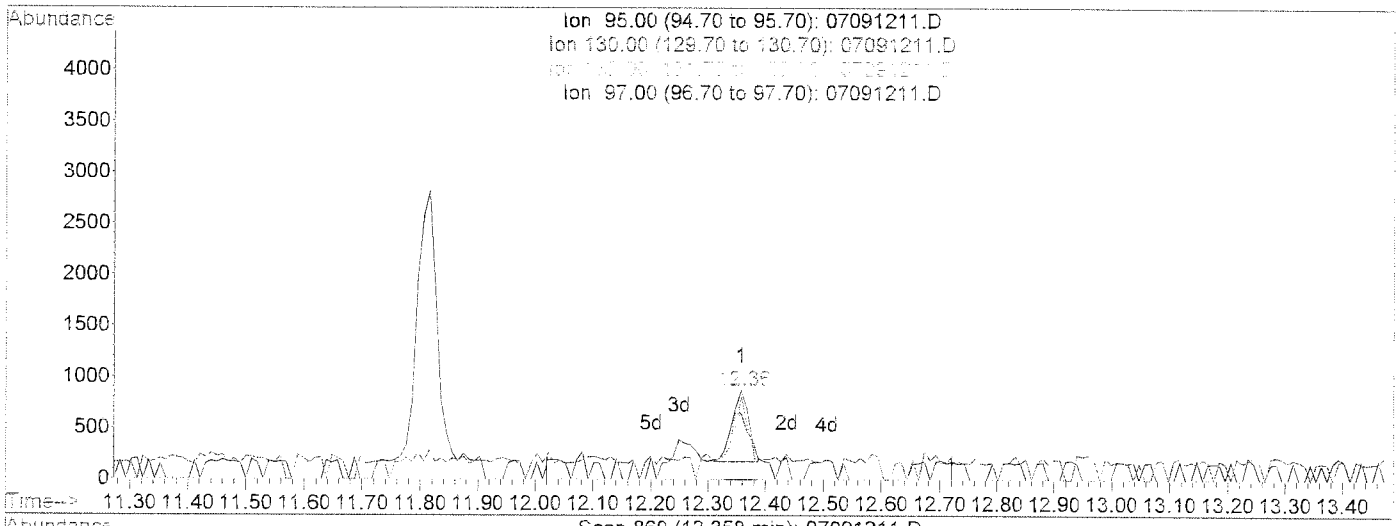
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	58.74#
132.00	92.00	55.64#
97.00	67.90	83.27#

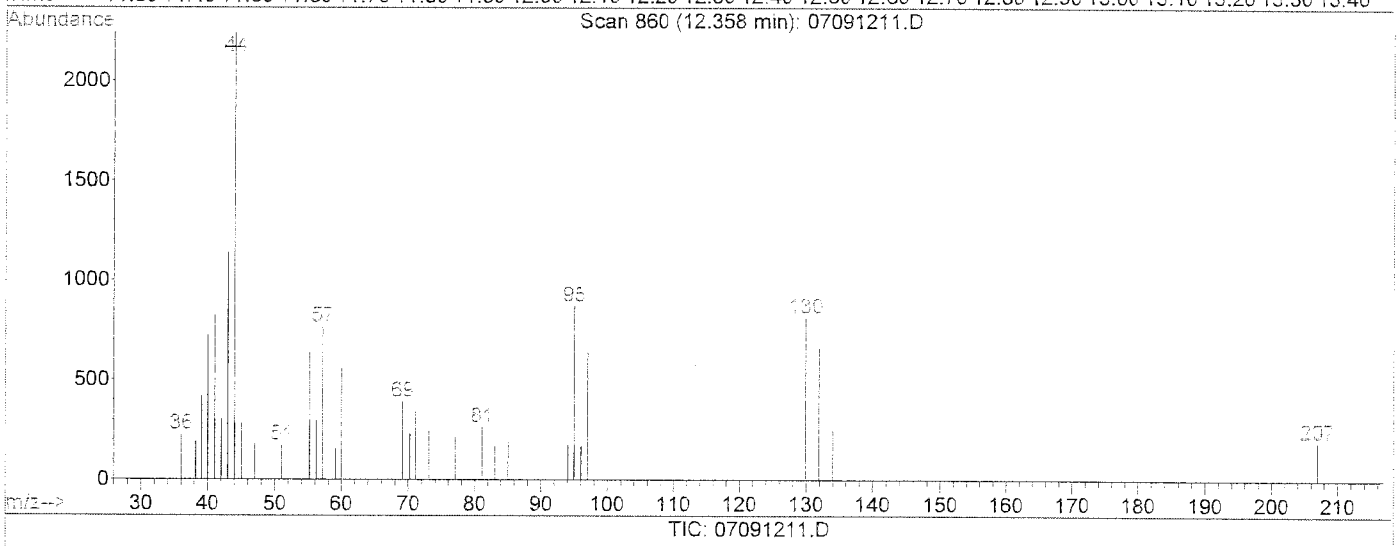
B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(41) Trichloroethene (T)

12.36min -0.00ug/L m

response 1407

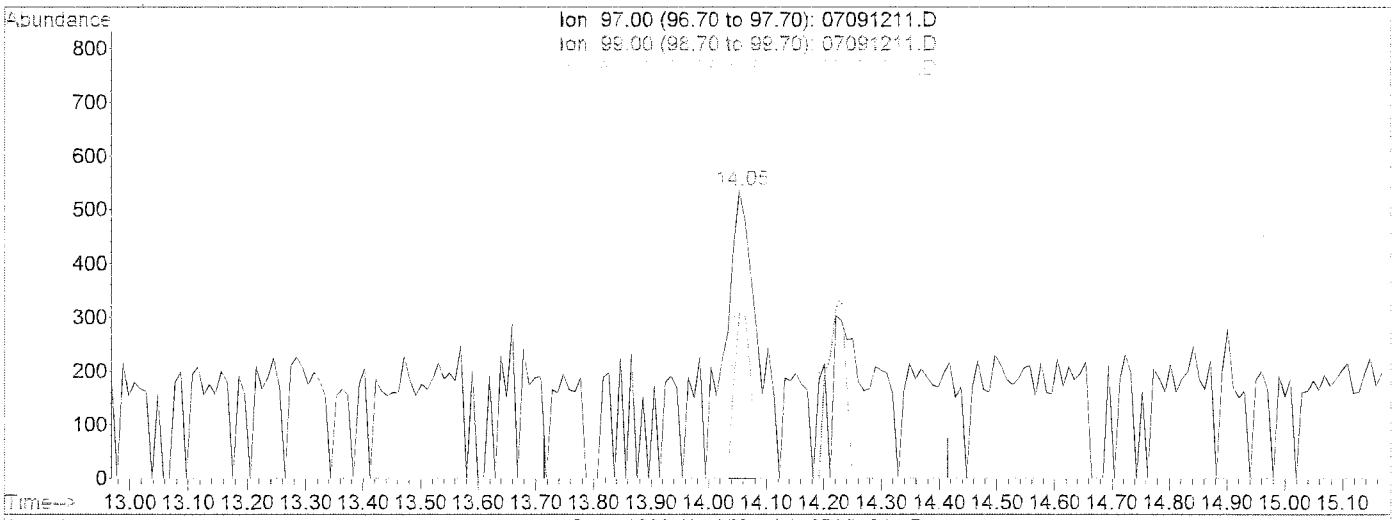
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	106.54
132.00	92.00	100.92
97.00	67.90	151.03#

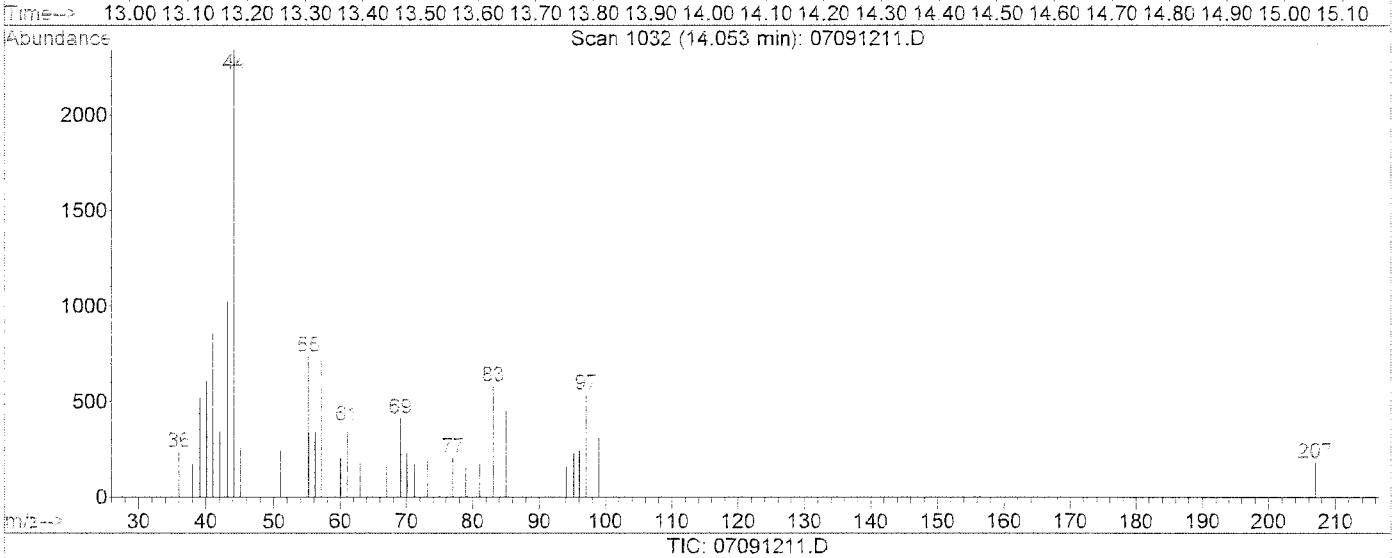
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(47) 1,1,2-Trichloroethane (T)

14.05min 0.86ug/L

response 2074

Ion	Exp%	Act%
97.00	100	100
99.00	61.10	27.92#
61.05	71.30	33.85#
0.00	0.00	0.00

B

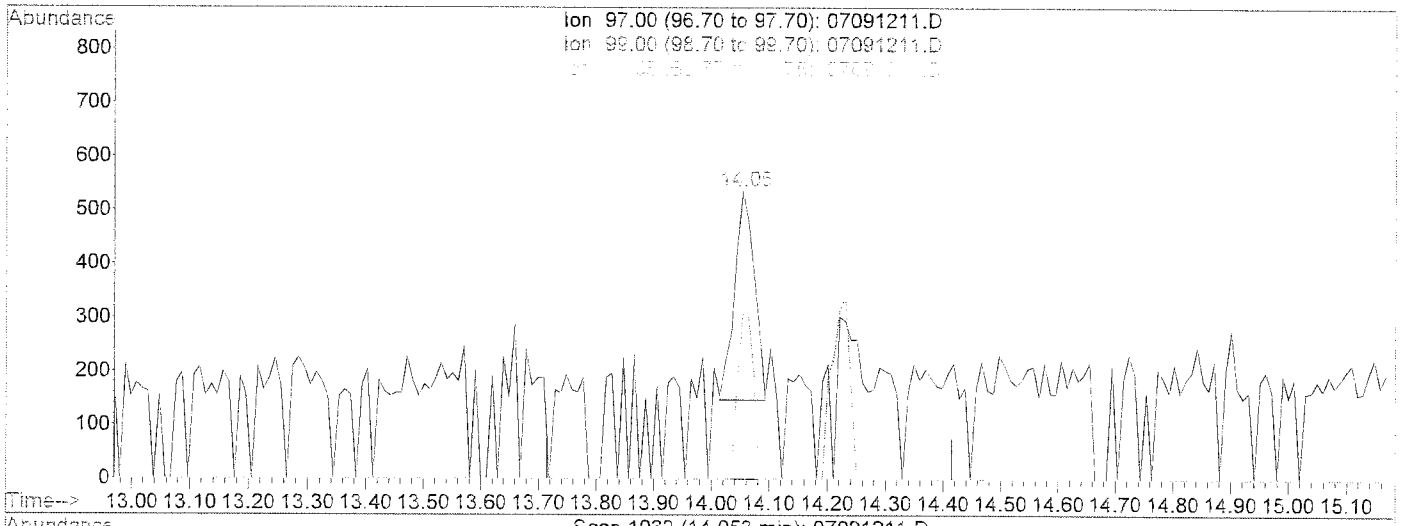
BL

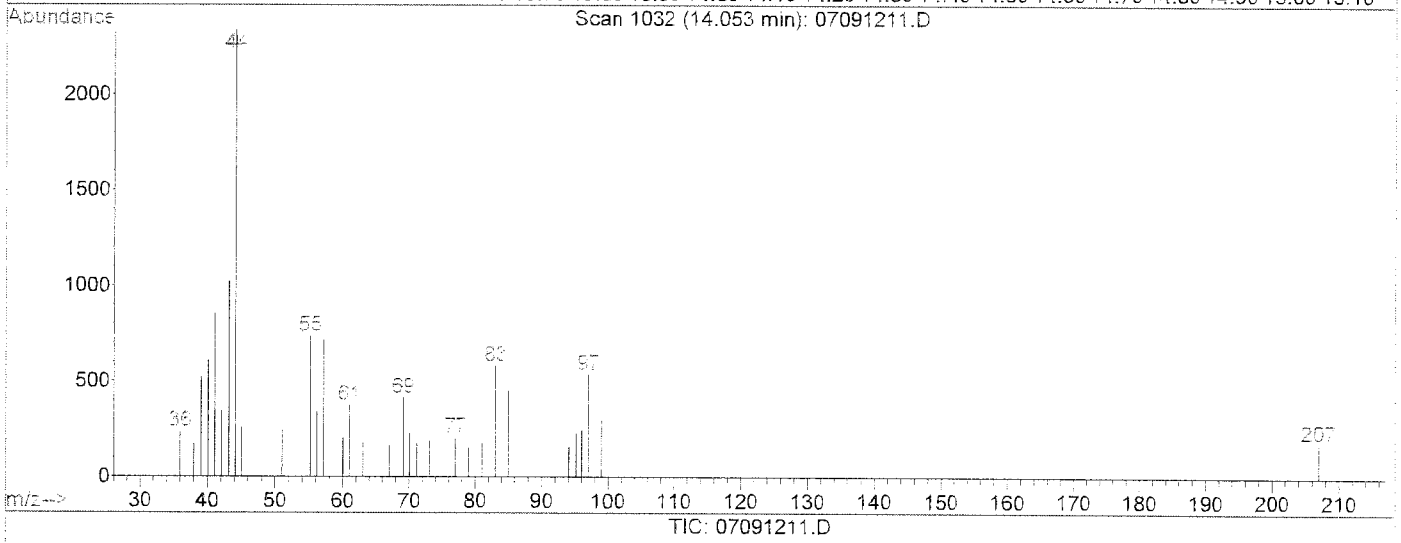
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(47) 1,1,2-Trichloroethane (T)

14.05min 0.28ug/L m

response 930

Ion	Exp%	Act%
97.00	100	100
99.00	61.10	62.26
61.05	71.30	75.48
0.00	0.00	0.00

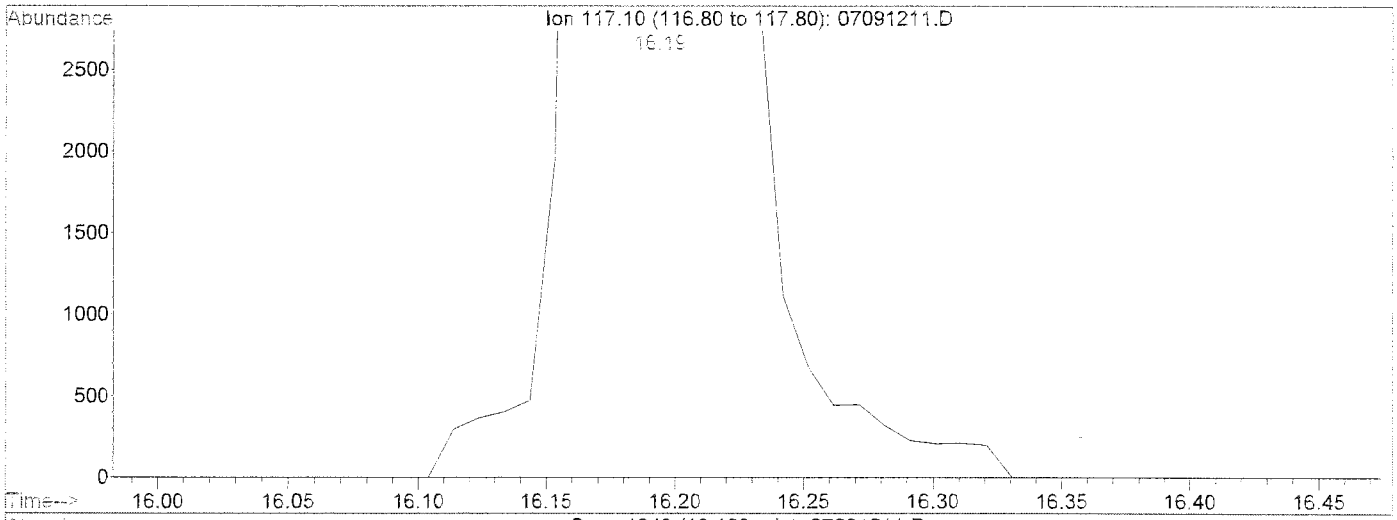
A
MM
7/11/12

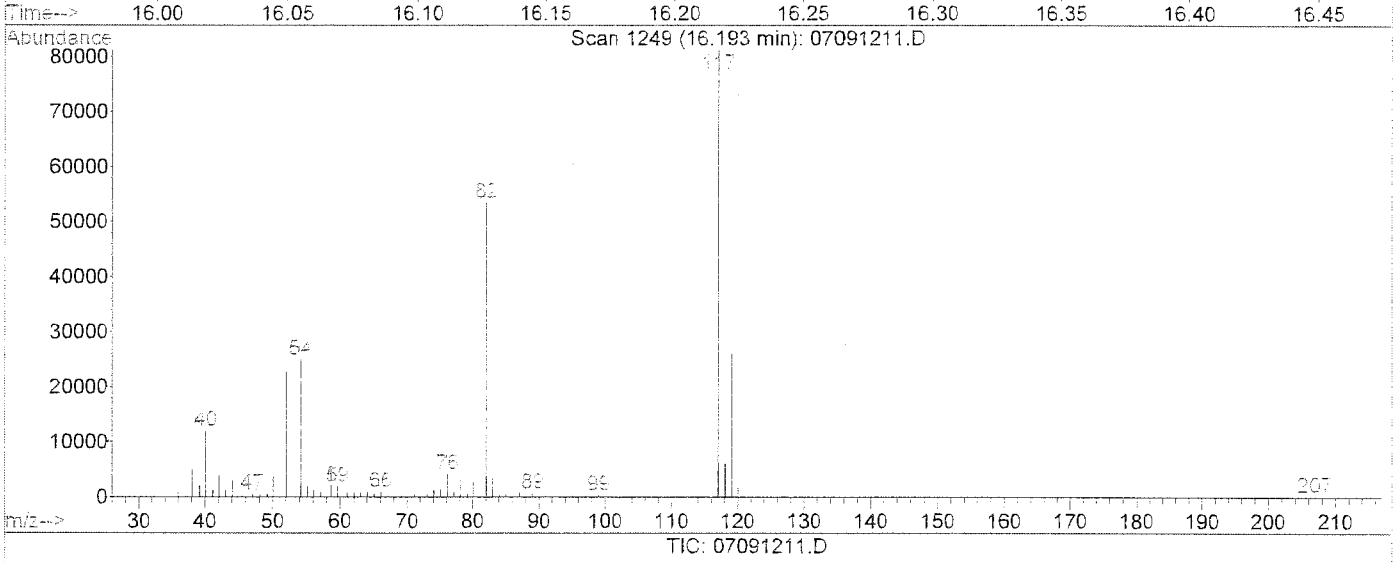
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L

response 178232

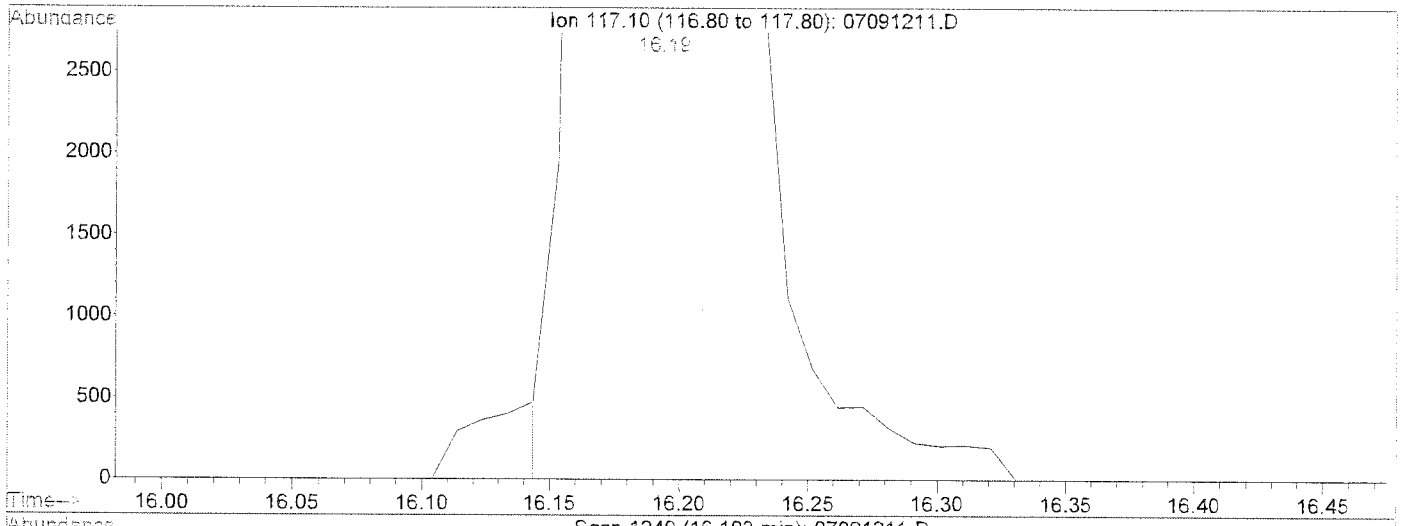
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

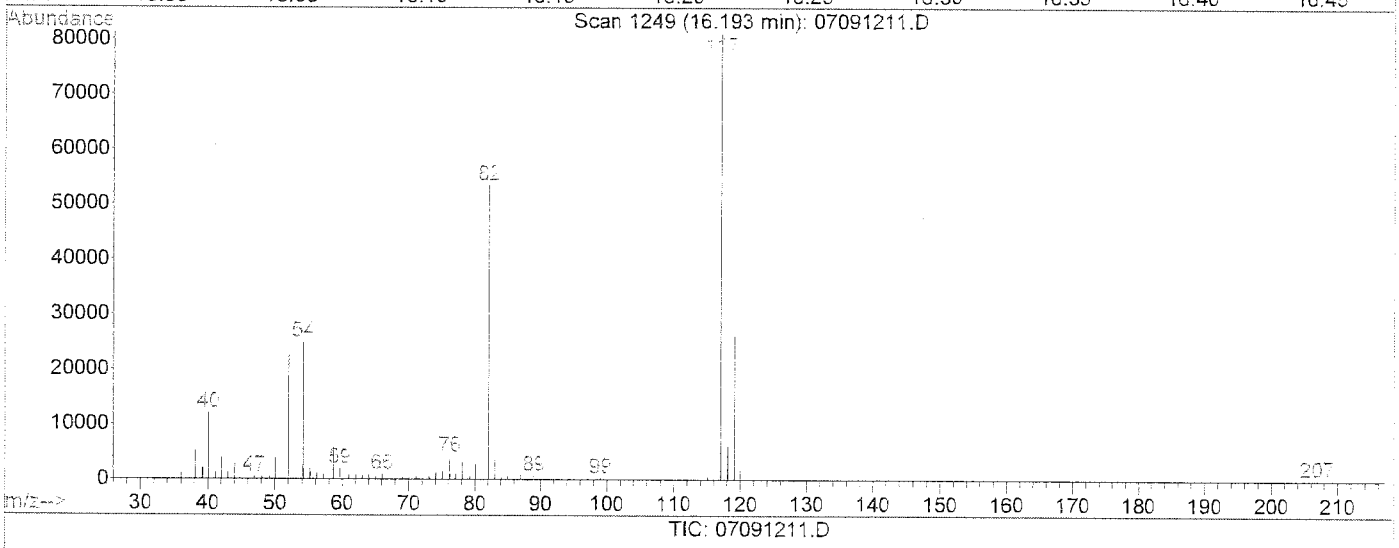
B
CE
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L m

response 177324

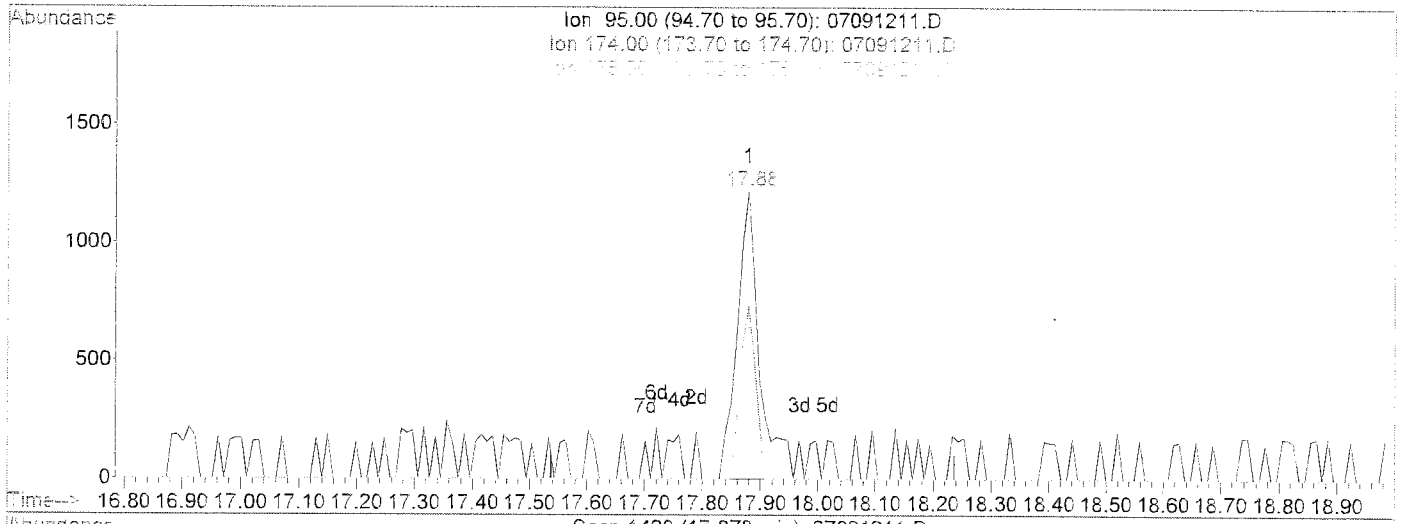
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

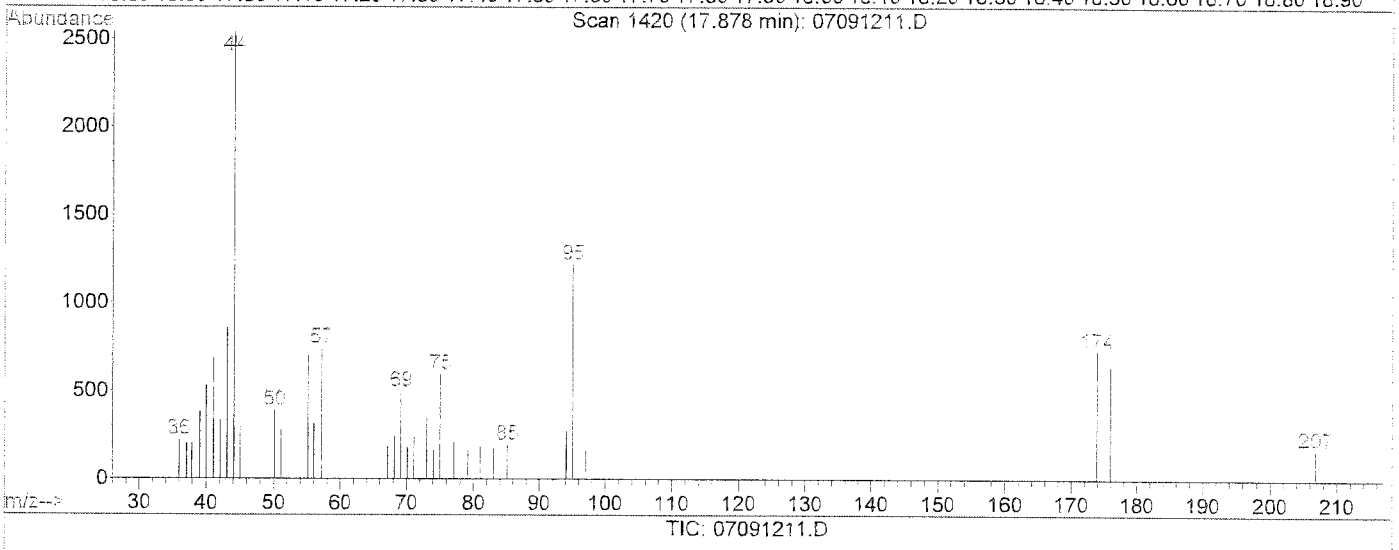
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091211.D

(62) 4-Bromofluorobenzene (S)

17.88min 1.01ug/L

response 3309

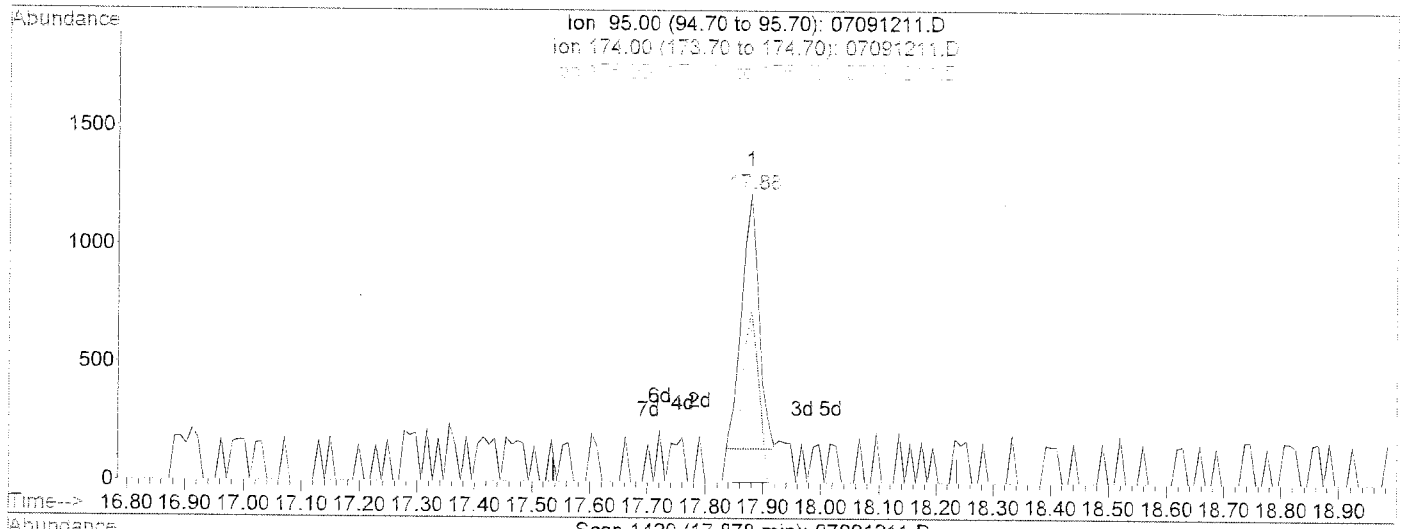
Ion	Exp%	Act%
95.00	100	100
174.00	70.30	41.61#
176.00	67.20	40.89#
0.00	0.00	0.00

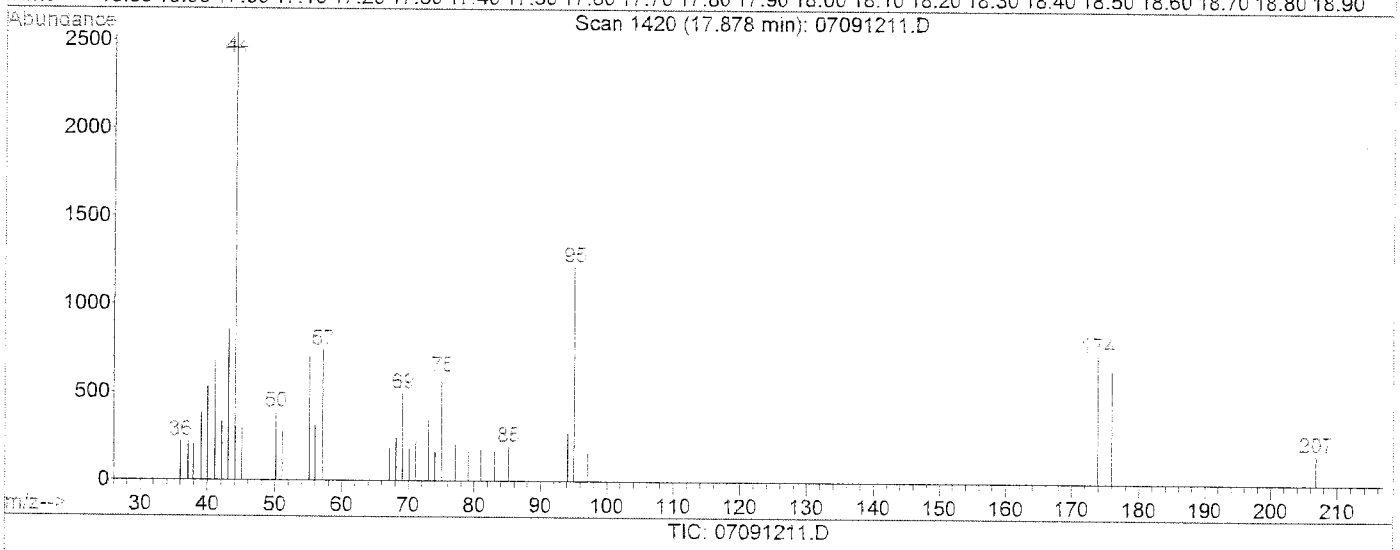
B
BL
mm 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(62) 4-Bromofluorobenzene (S)

17.88min 0.67ug/L m

response 2216

Ion	Exp%	Act%
95.00	100	100
174.00	70.30	62.14
176.00	67.20	61.06
0.00	0.00	0.00

A
mm
7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	64169	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.67	168	141731	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	244590	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	177324m	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	66474	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	1172	0.47 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 1.88%	
48) Toluene-d8	14.22	98	6295	0.56 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 2.24%	
62) 4-Bromofluorobenzene	17.88	95	2216m	0.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.68%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.58	85	2492	0.59 ug/L	97
6) Chloromethane	4.85	50	4796	0.55 ug/L #	60
7) Vinyl Chloride	5.16	62	3877	0.53 ug/L #	80
8) 1,3-Butadiene	5.34	54	2826	Below Cal #	76
9) Bromomethane	5.77	94	2262	0.75 ug/L	100
10) Chloroethane	5.99	64	2787	0.66 ug/L #	61
11) Trichlorofluoromethane	6.82	101	1683	0.51 ug/L	98
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.61	142	1873	0.44 ug/L #	94
14) 1,1-Dichloroethene	7.55	96	1900m	0.25 ug/L	
15) Methylene Chloride	7.75	84	2355	Below Cal	92
16) Freon 113	7.82	101	1777	0.53 ug/L	97
17) Carbon disulfide	8.08	76	7687	0.51 ug/L #	1
18) trans-1,2-Dichloroethene	8.65	96	3175	0.41 ug/L #	59
19) MTBE	8.79	73	5232	0.77 ug/L	93
20) 1,1-Dichloroethane	8.98	63	4308	0.14 ug/L #	86
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	0.00	86	0	N.D. d	
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	9.54	45	10232	0.58 ug/L	94
25) cis-1,2-Dichloroethene	9.73	96	2522	0.28 ug/L #	73
26) Bromochloromethane	9.95	128	555	0.19 ug/L	90
27) Chloroform	10.00	83	2947	0.20 ug/L #	53
28) 2,2-Dichloropropane	10.11	77	3074	0.32 ug/L #	95
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	6290	0.58 ug/L #	84
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.86	62	1696	0.26 ug/L	89
33) 1,1,1-Trichloroethane	11.00	97	4043	0.49 ug/L #	60
34) (TAME) tert-Amyl methyl et	11.71	73	5232	0.68 ug/L #	89
36) 1,1-Dichloropropene	11.23	75	3474	0.12 ug/L	95
37) Carbon Tetrachloride	11.47	117	1497	0.05 ug/L #	92
38) Benzene	11.53	78	8335m	0.12 ug/L	
39) Dibromomethane	12.27	93	830	0.30 ug/L #	30
40) 1,2-Dichloropropane	12.31	63	2149	0.10 ug/L #	89

(#) = qualifier out of range (m) = manual integration
07091211.D 062612.M Mon Jul 09 16:11:09 2012

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	1407m	Below Cal	
42) Bromodichloromethane	12.42	83	1970	0.32 ug/L #	36
43) 2-Chlorovinylethylether	0.00	63	0	N.D. d	
44) cis-1,3-Dichloropropene	13.26	75	2906	0.29 ug/L #	59
45) 4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d	
46) trans-1,3-Dichloropropene	13.84	75	2057	0.30 ug/L #	32
47) 1,1,2-Trichloroethane	14.05	97	930m	0.28 ug/L	
49) Toluene	14.32	92	4486	0.07 ug/L	90
51) 1,3-Dichloropropane	14.38	76	2214	0.29 ug/L #	69
52) 2-Hexanone	0.00	43	0	N.D. d	
53) Dibromochloromethane	14.75	129	931	0.28 ug/L	90
54) 1,2-Dibromoethane	15.10	107	839	0.23 ug/L	88
55) Tetrachloroethene	15.32	164	1170	0.11 ug/L	94
56) 1,1,1,2-Tetrachloroethane	16.12	131	976	0.17 ug/L #	1
57) Chlorobenzene	16.24	112	3649	0.19 ug/L #	42
58) Ethylbenzene	16.50	91	8308	0.17 ug/L	93
59) m,p-Xylenes	16.76	106	2855	0.09 ug/L	90
60) Styrene	17.21	104	3808	0.20 ug/L #	83
61) o-Xylene	17.31	106	2503	0.15 ug/L	86
64) Bromoform	0.00	173	0	N.D. d	
65) 1,1,2,2-Tetrachloroethane	17.30	83	1601	0.33 ug/L #	43
66) 1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68) Isopropylbenzene	17.82	105	6703	0.13 ug/L	95
69) Bromobenzene	18.18	156	1013	0.18 ug/L #	30
70) n-Propylbenzene	18.43	91	9224	0.15 ug/L	98
71) 2-Chlorotoluene	18.58	91	4956	0.15 ug/L	92
72) 4-Chlorotoluene	18.68	91	4821	0.19 ug/L	92
73) 1,3,5-Trimethylbenzene	18.82	105	4908	0.06 ug/L	97
74) tert-Butylbenzene	19.20	119	4199	Below Cal	91
75) 1,2,4-Trimethylbenzene	19.35	105	4830	0.08 ug/L	96
76) sec-Butylbenzene	19.49	105	7595	0.05 ug/L	96
77) 1,3-Dichlorobenzene	19.59	146	2061	0.11 ug/L #	83
78) 1,4-Dichlorobenzene	19.68	146	2035	0.12 ug/L #	55
79) p-Isopropyltoluene	19.71	119	5359	0.09 ug/L #	94
80) 1,2-Dichlorobenzene	20.12	146	1785	0.02 ug/L #	91
81) n-Butylbenzene	20.21	91	5960	0.08 ug/L	99
82) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83) 1,2,4-Trichlorobenzene	22.44	180	738	0.01 ug/L #	86
84) Napthalene	0.00	128	0	N.D. d	
85) Hexachlorobutadiene	22.84	225	478	Below Cal #	64
86) 1,2,3-Trichlorobenzene	23.06	180	551	Below Cal #	82

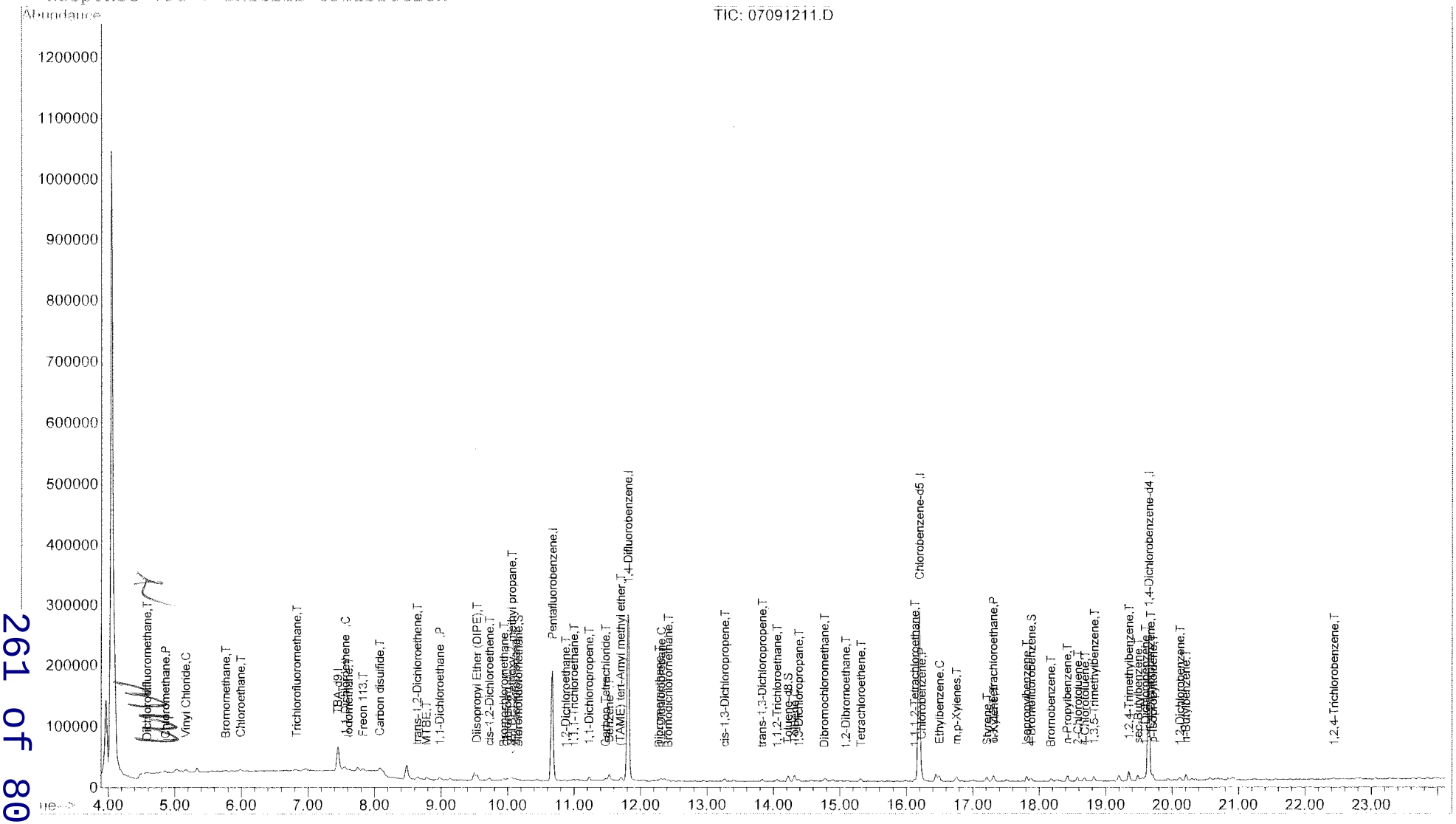
MNM

(#) = qualifier out of range (m) = manual integration
07091211.D 062612.M Mon Jul 09 16:11:09 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:10 2012 Quant Results File: 062612.RES

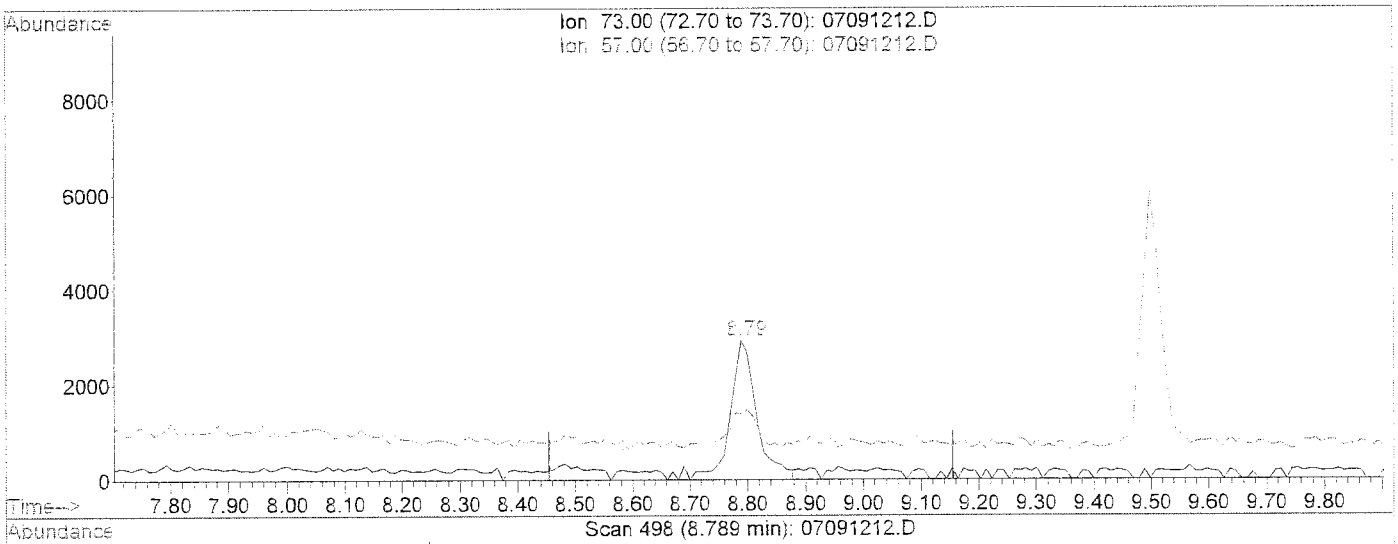
Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

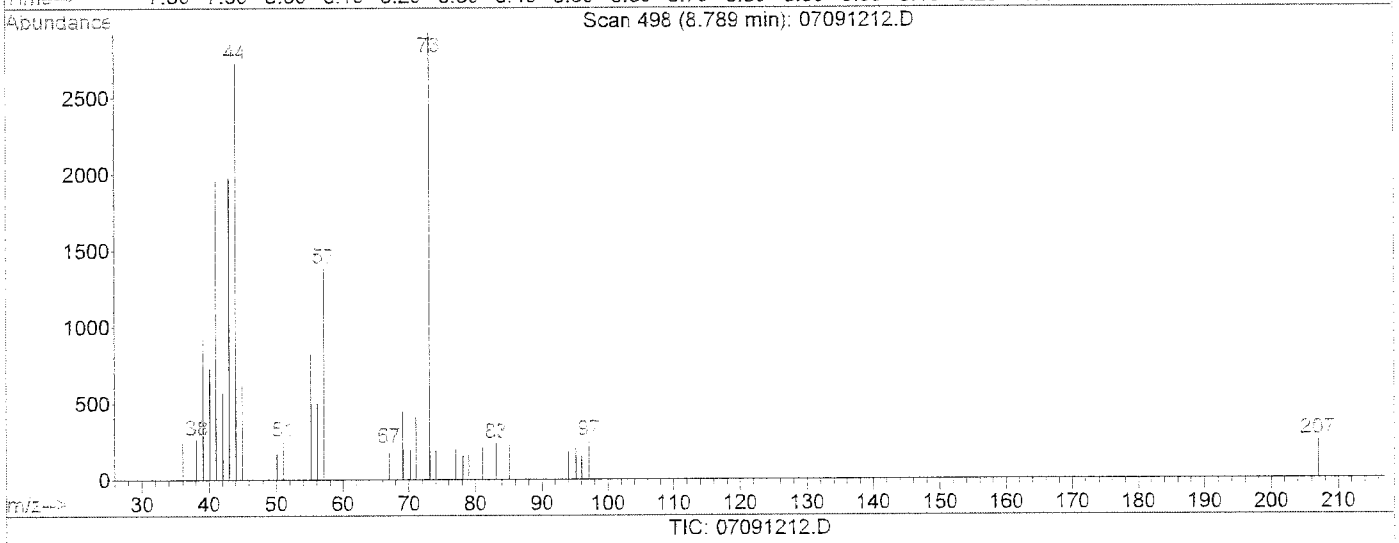


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(19) MTBE (T)

8.79min 1.42ug/L

response 9380

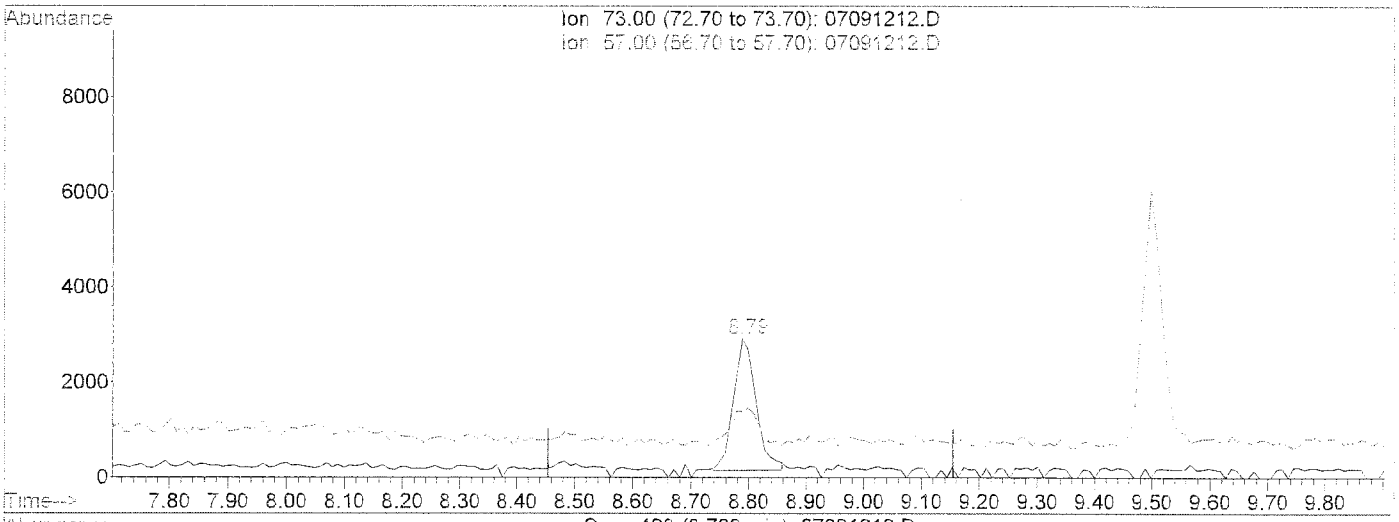
Ion	Exp%	Act%
73.00	100	100
57.00	28.10	28.84
0.00	0.00	0.00
0.00	0.00	0.00

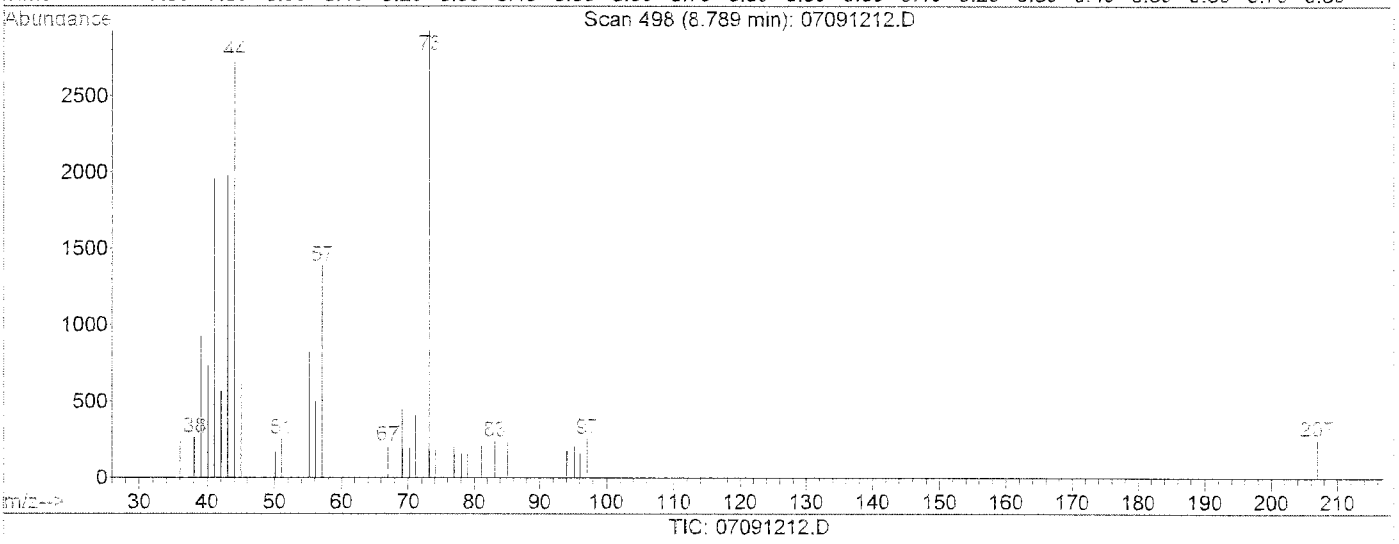
B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(19) MTBE (T)

8.79min 1.15ug/L m

response 7653

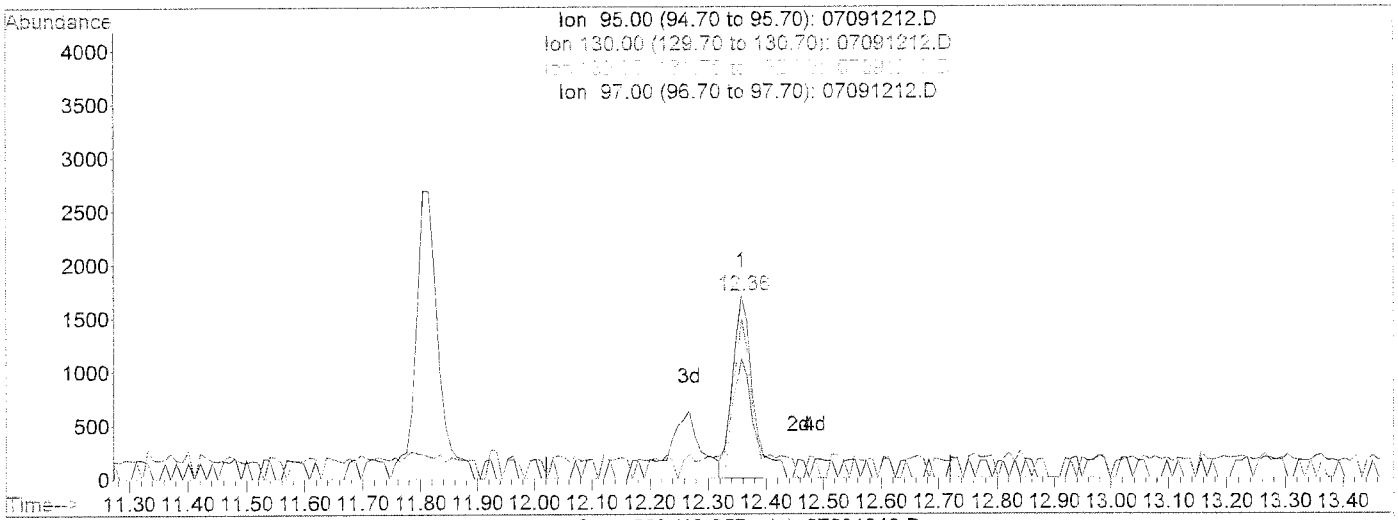
Ion	Exp%	Act%
73.00	100	100
57.00	28.10	35.35#
0.00	0.00	0.00
0.00	0.00	0.00

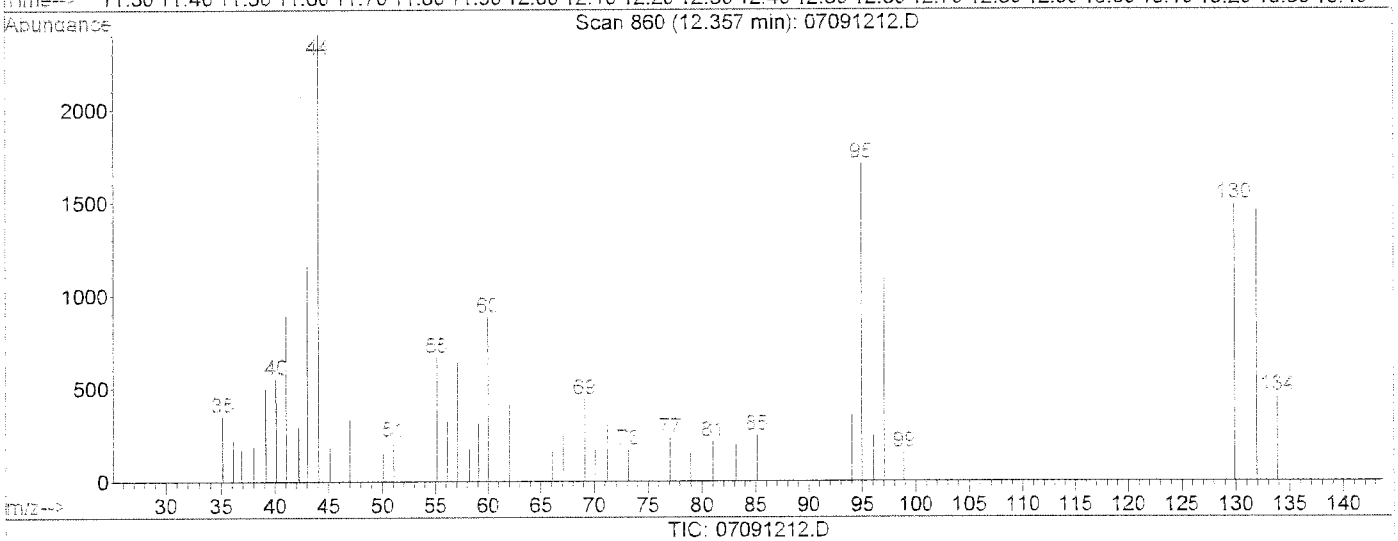
A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(41) Trichloroethene (T)

12.36min 0.98ug/L

response 4340

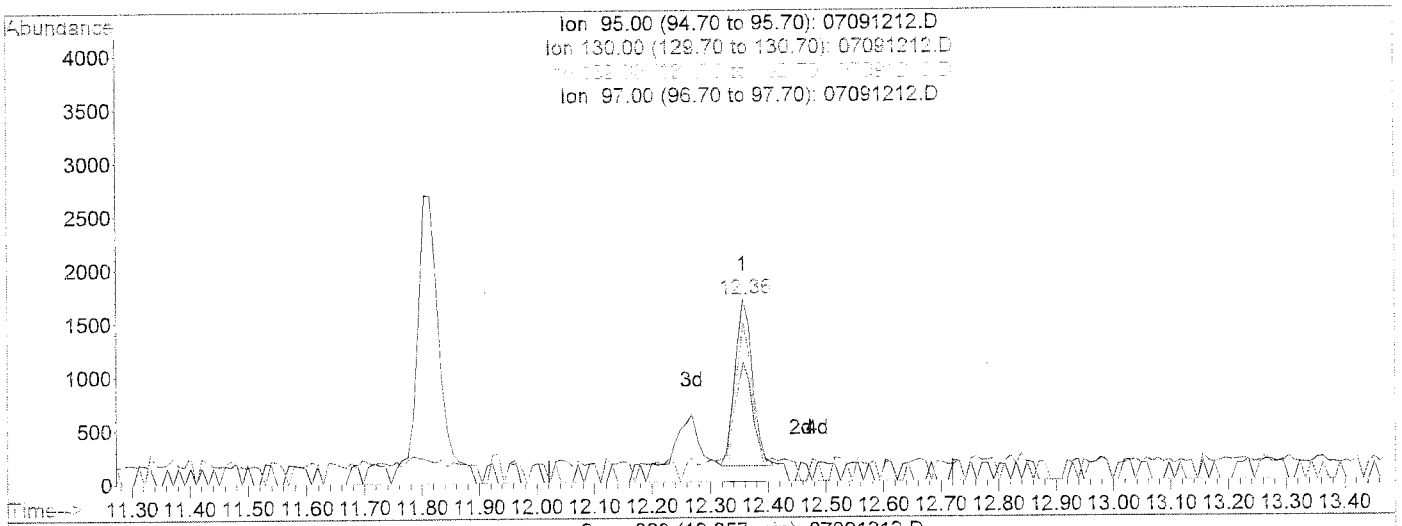
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	71.04#
132.00	92.00	71.34#
97.00	67.90	85.88#

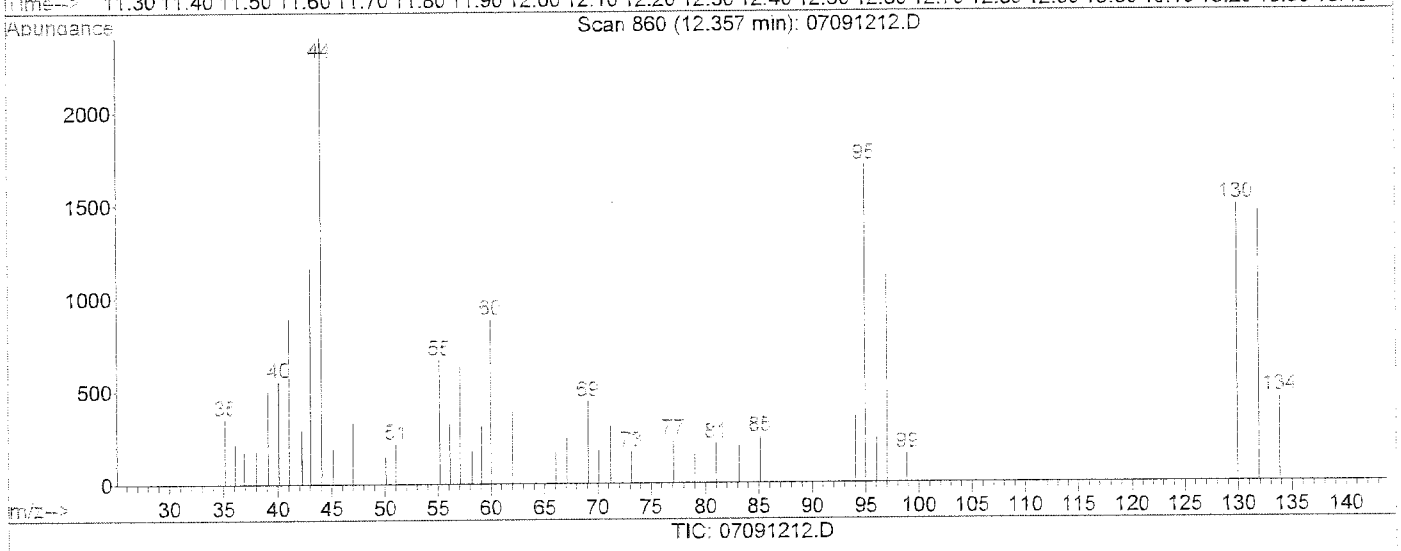
B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(41) Trichloroethene (T)

12.36min 0.66ug/L m

response 3367

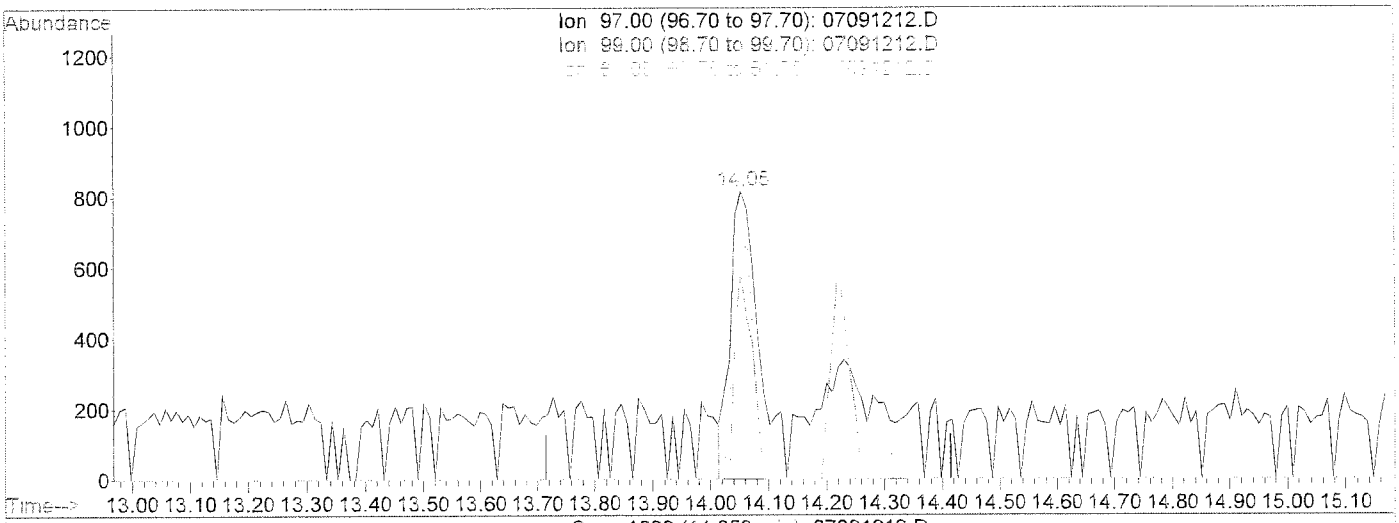
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	91.57
132.00	92.00	91.95
97.00	67.90	110.69#

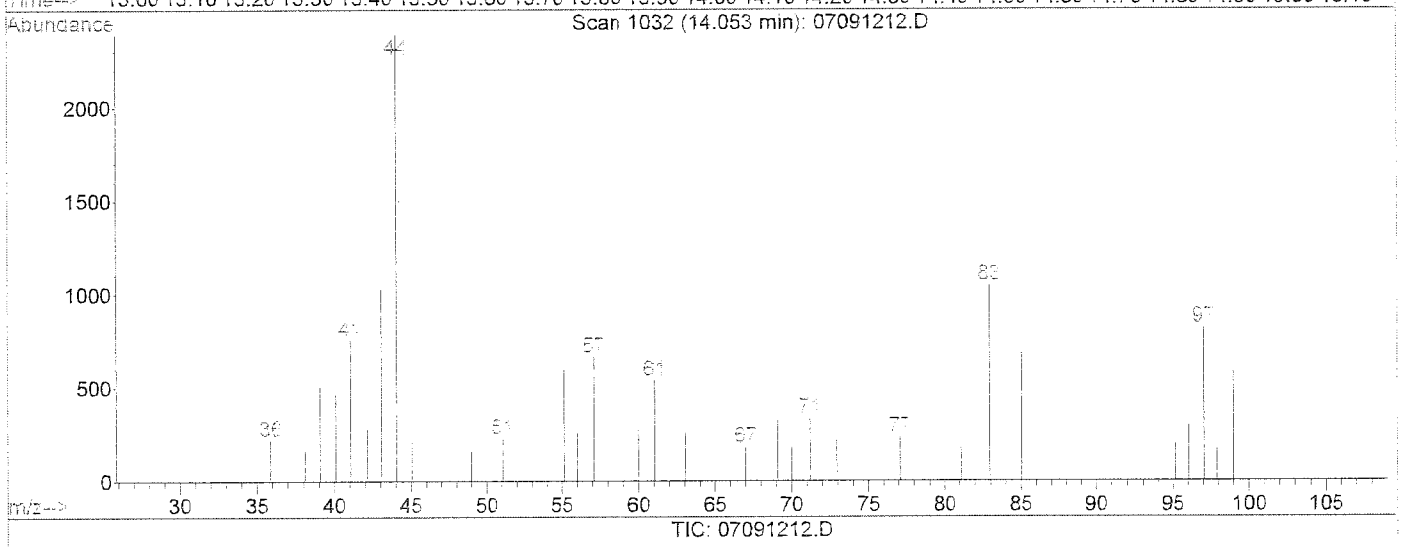
A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(47) 1,1,2-Trichloroethane (T)

14.05min 1.24ug/L

response 2767

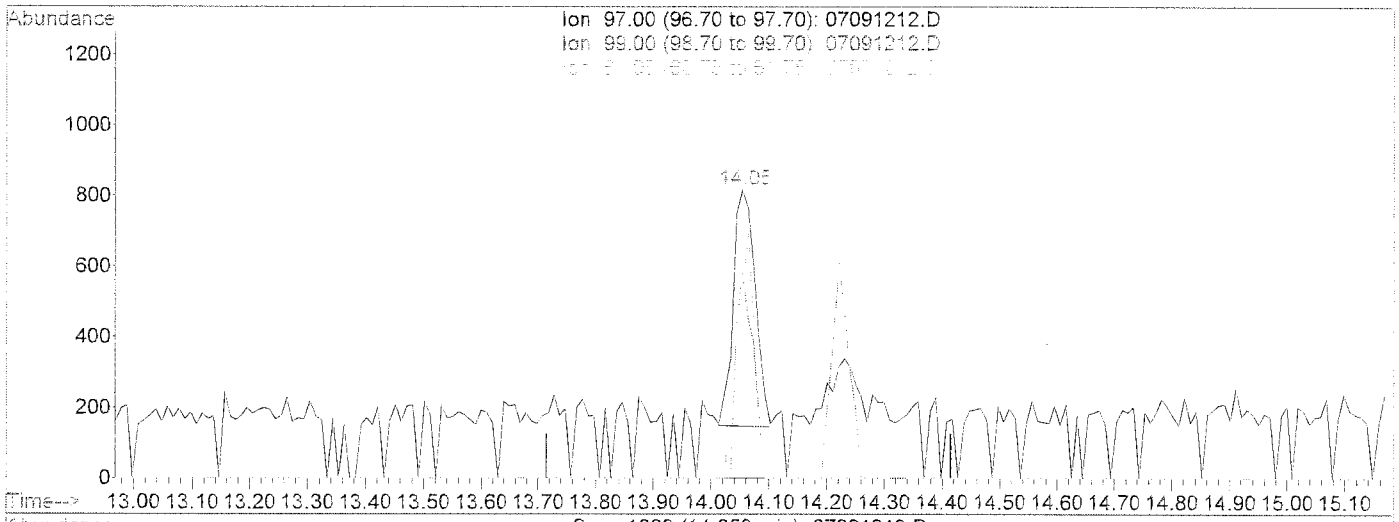
Ion	Exp%	Act%
97.00	100	100
99.00	61.10	43.55#
61.05	71.30	54.72#
0.00	0.00	0.00

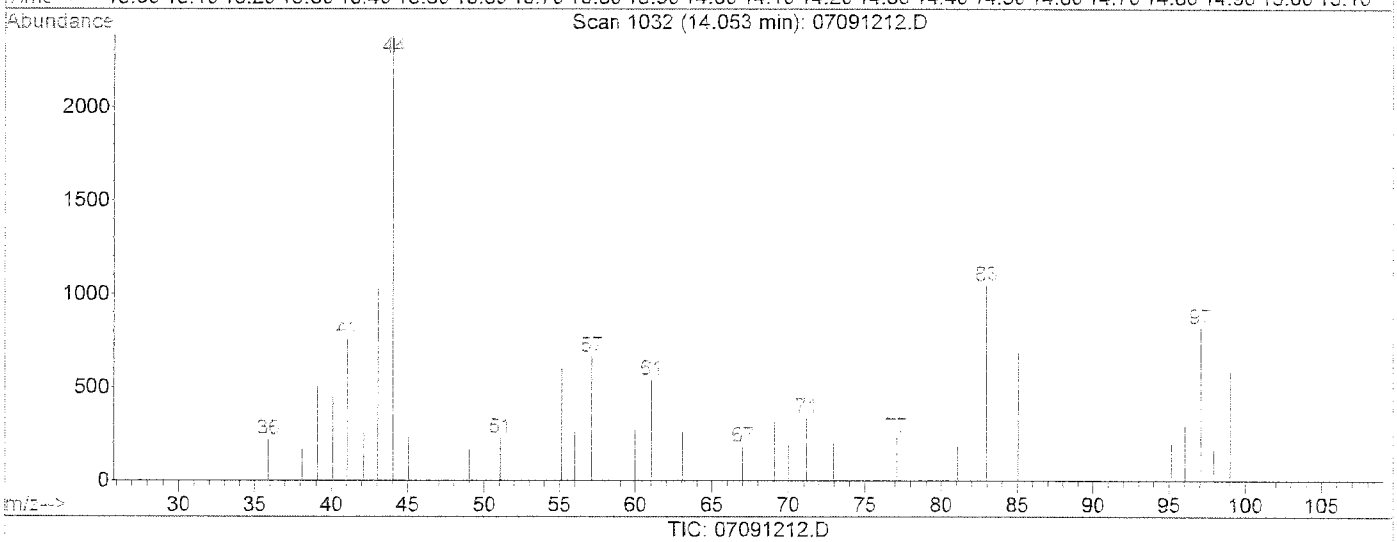
B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(47) 1,1,2-Trichloroethane (T)

14.05min 0.72ug/L m

response 1766

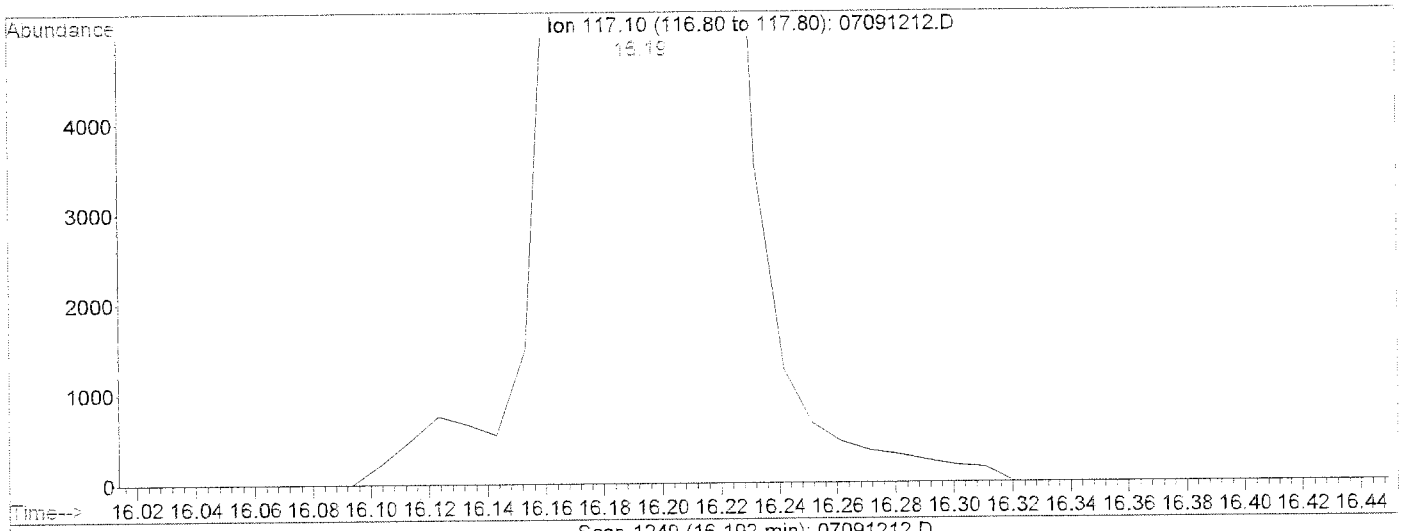
Ion	Exp%	Act%
97.00	100	100
99.00	61.10	68.23
61.05	71.30	85.73#
0.00	0.00	0.00

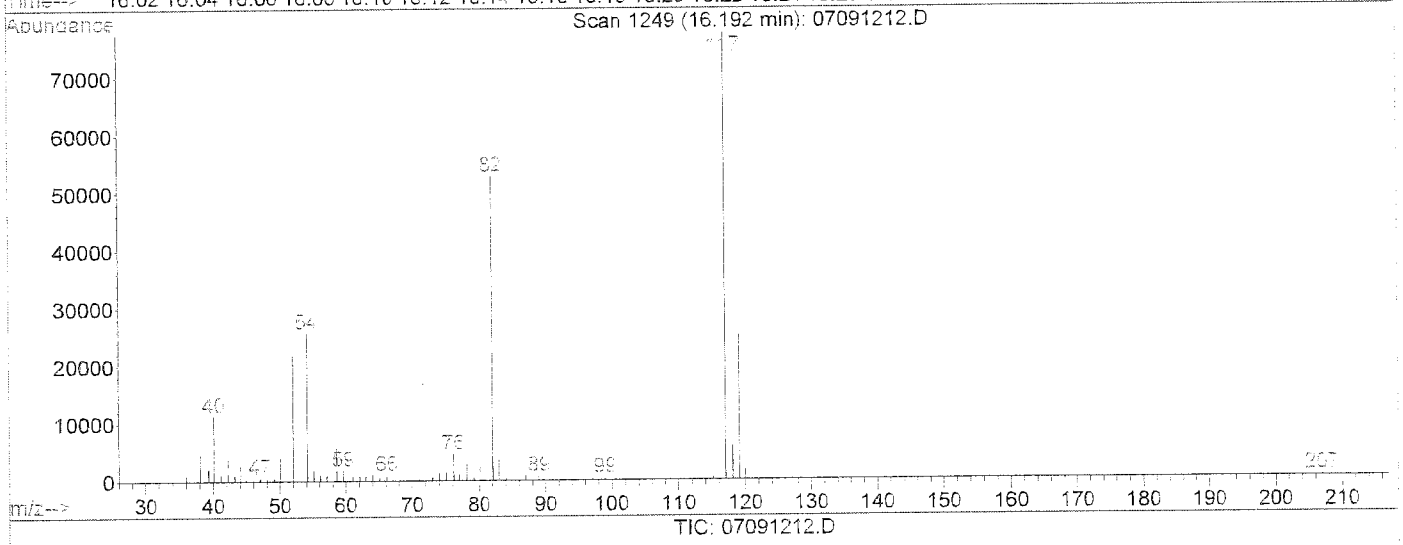
A
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L

response 174471

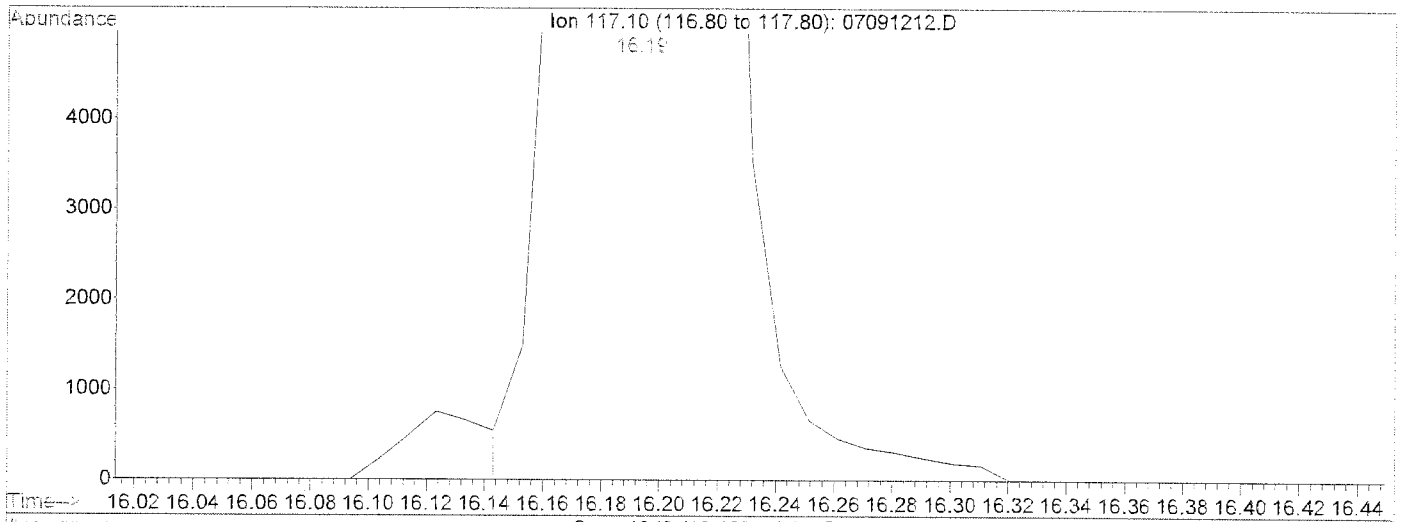
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

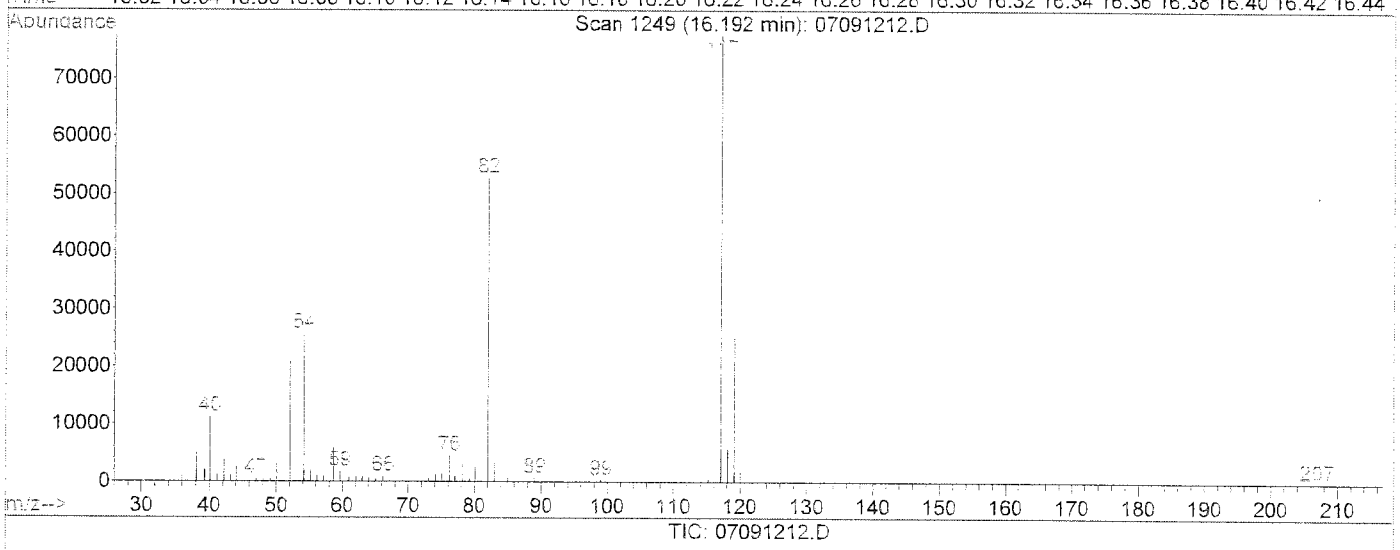
B
CE
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L m

response 172886

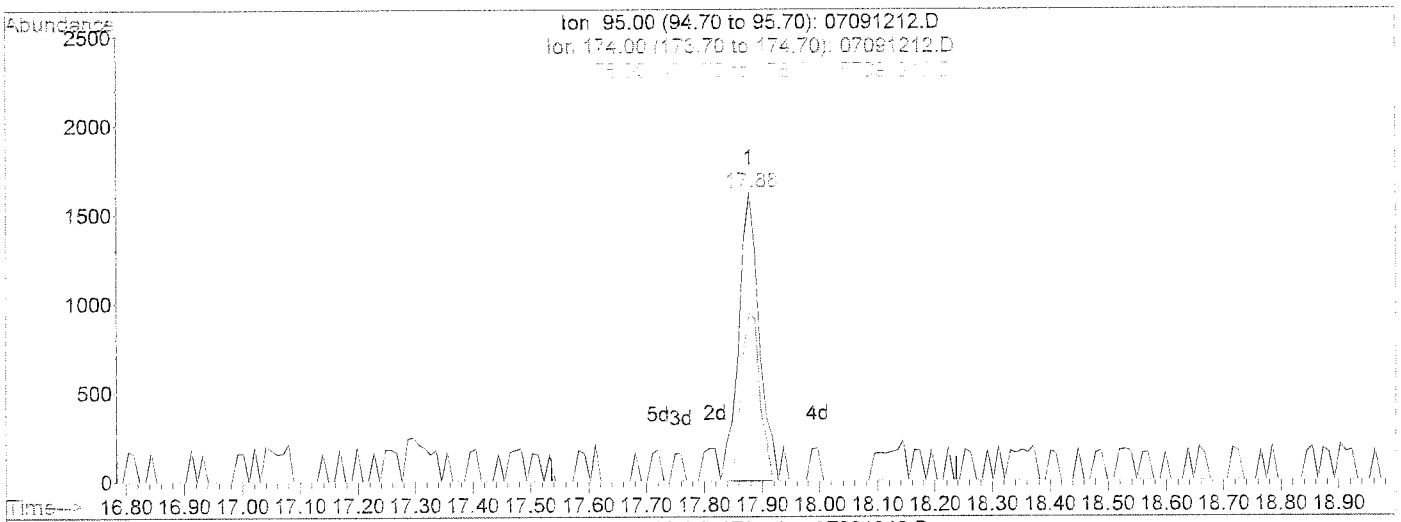
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

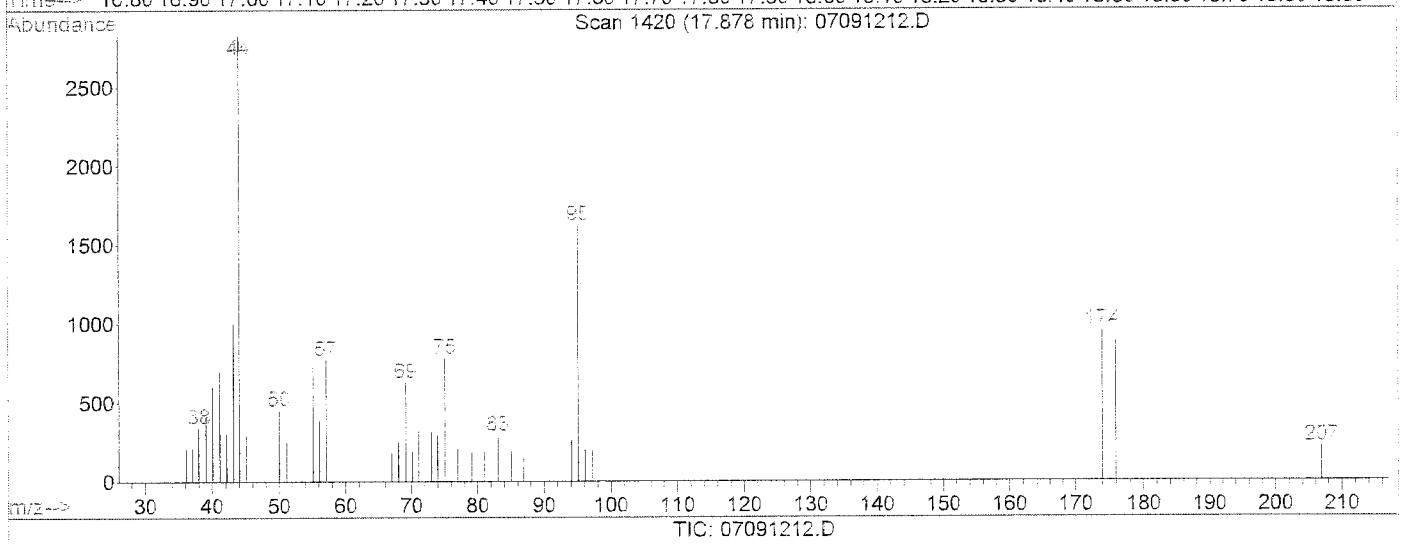
A
mm 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(62) 4-Bromofluorobenzene (S)

17.88min 1.28ug/L

response 4112

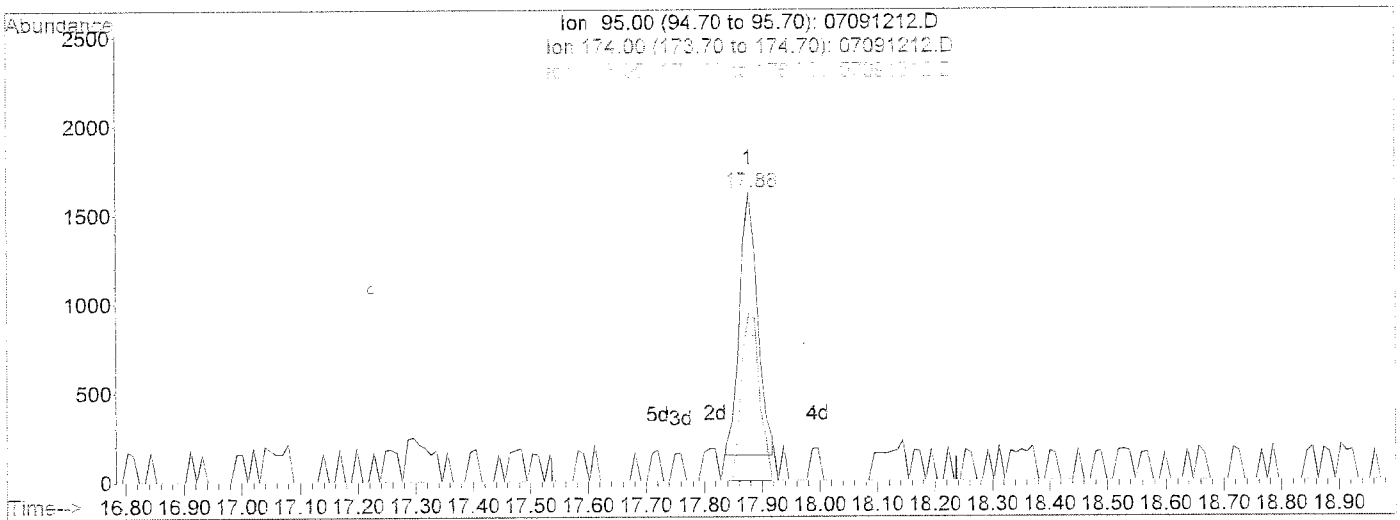
Ion	Exp%	Act%
95.00	100	100
174.00	70.30	50.00#
176.00	67.20	48.10#
0.00	0.00	0.00

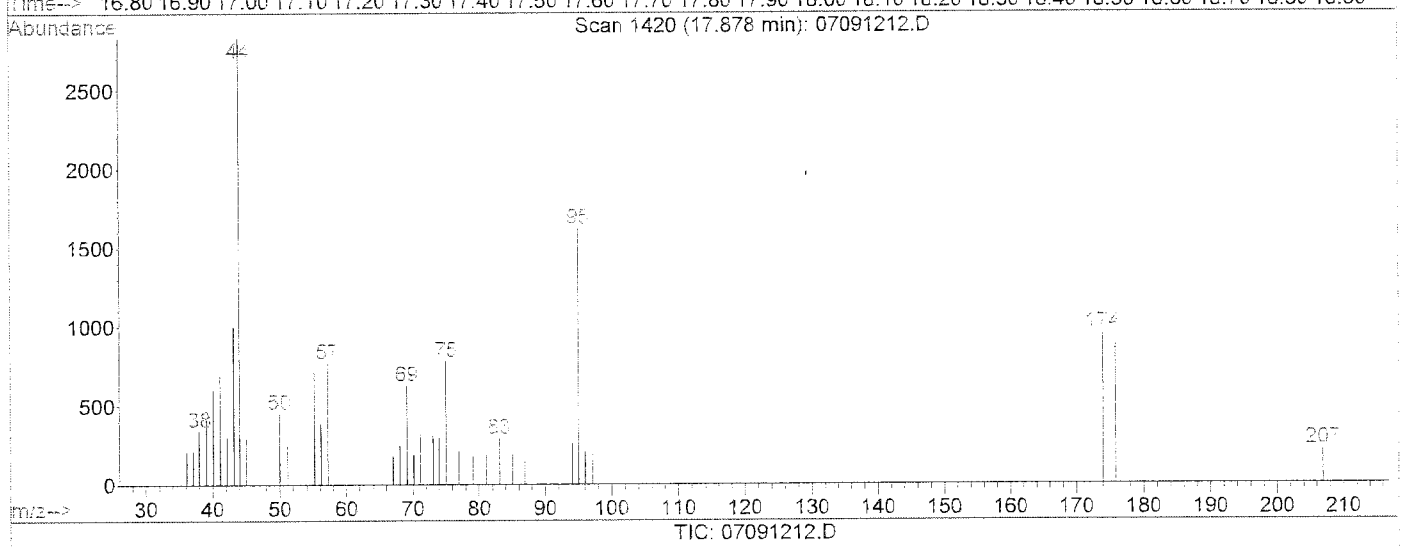
B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(62) 4-Bromofluorobenzene (S)

17.88min 0.99ug/L m

response 3192

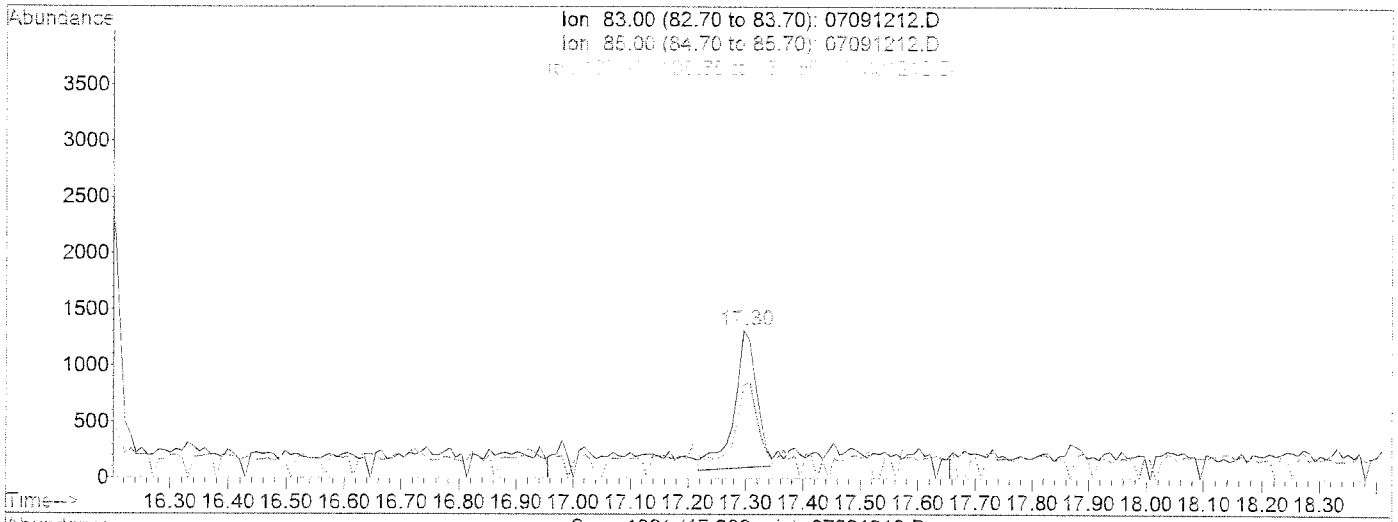
Ion	Exp%	Act%
95.00	100	100
174.00	70.30	64.41
176.00	67.20	61.97
0.00	0.00	0.00

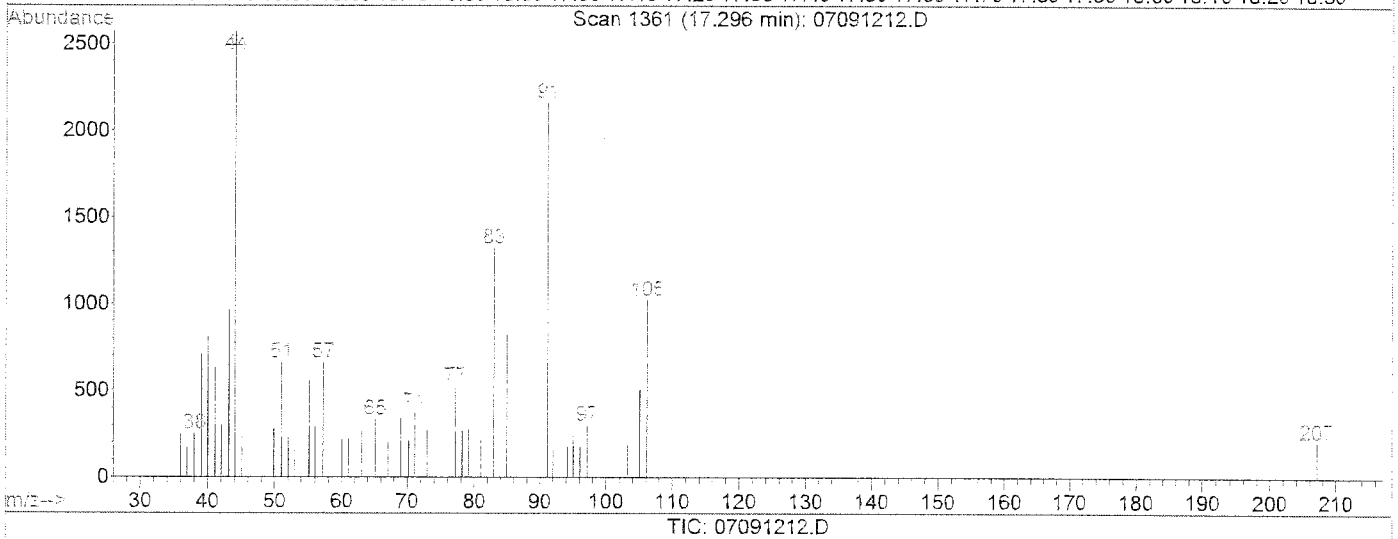
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(65) 1,1,2,2-Tetrachloroethane (P)

17.30min 1.07ug/L

response 3340

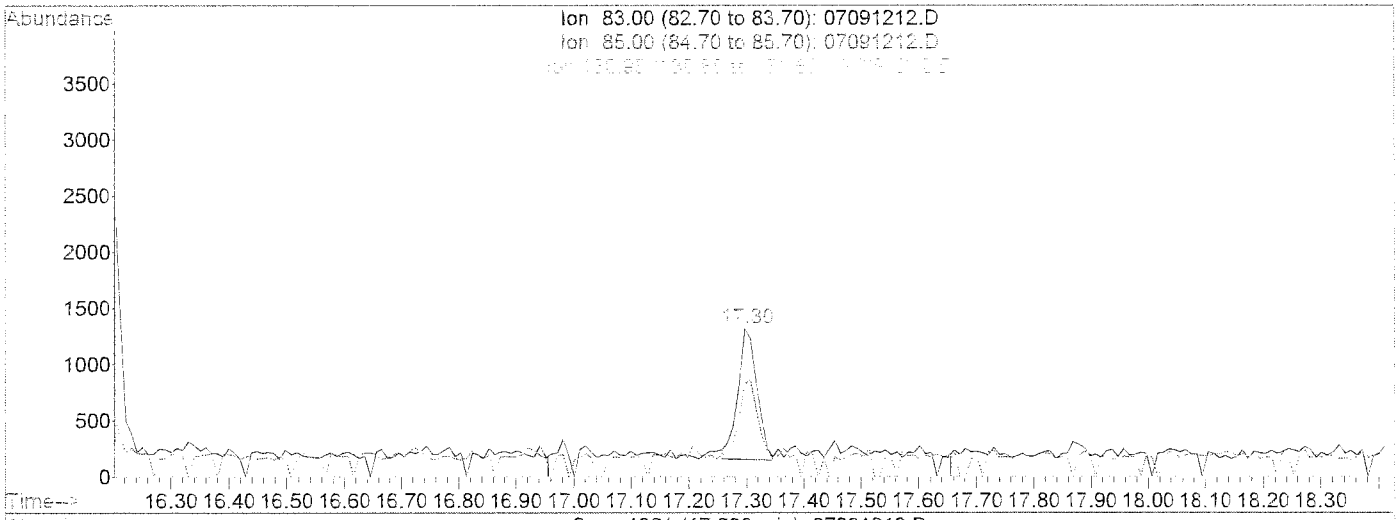
Ion	Exp%	Act%
83.00	100	100
85.00	63.60	62.81
130.95	6.70	0.00#
0.00	0.00	0.00

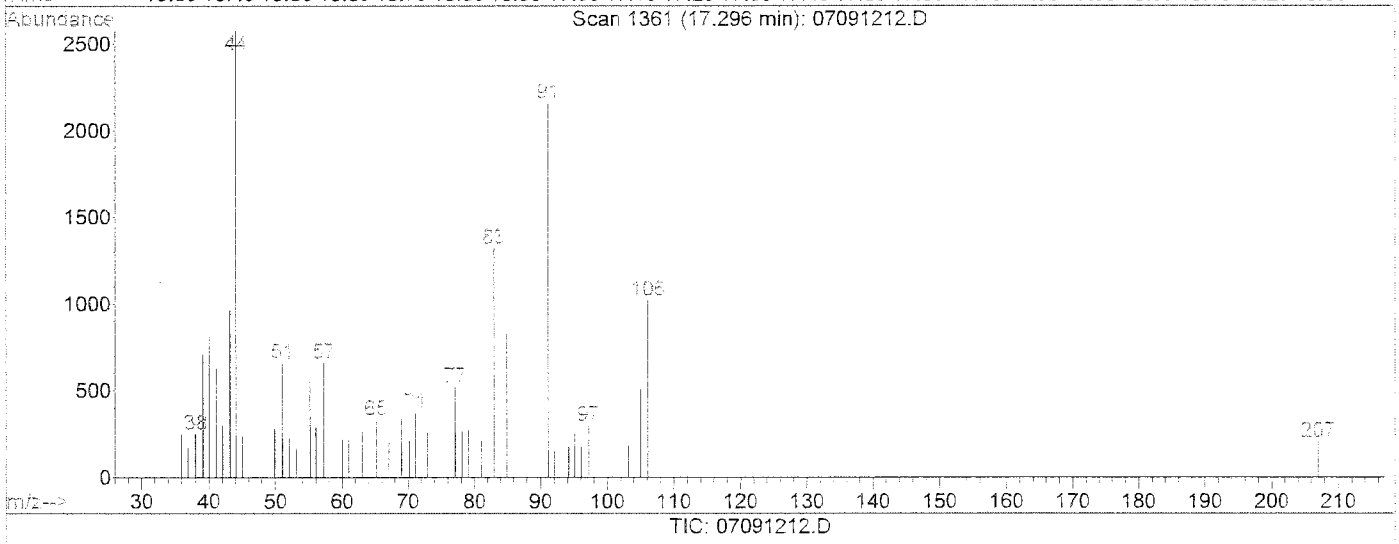
B
BL
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091212.D

(65) 1,1,2,2-Tetrachloroethane (P)

17.30min 0.81ug/L m

response 2697

Ion	Exp%	Act%
83.00	100	100
85.00	63.60	77.79#
130.95	6.70	0.00#
0.00	0.00	0.00

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:13 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	57489	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.67	168	137913	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	238780	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	172886m	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	63200	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	2209	0.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.64%	
48) Toluene-d8	14.22	98	9894	0.90 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 3.60%	
62) 4-Bromofluorobenzene	17.88	95	3192m	0.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.96%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.57	85	5361	1.31 ug/L	93
6) Chloromethane	4.86	50	8724	1.03 ug/L	79
7) Vinyl Chloride	5.17	62	7995	1.12 ug/L	94
8) 1,3-Butadiene	5.34	54	6187	0.13 ug/L	98
9) Bromomethane	5.77	94	3209	1.10 ug/L #	47
10) Chloroethane	5.99	64	4771	1.15 ug/L #	73
11) Trichlorofluoromethane	6.82	101	3147	0.98 ug/L	94
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.62	142	3804	0.91 ug/L	95
14) 1,1-Dichloroethene	7.56	96	3913	0.83 ug/L #	90
15) Methylene Chloride	7.74	84	6190	1.12 ug/L	95
16) Freon 113	7.82	101	3395	1.04 ug/L	95
17) Carbon disulfide	8.08	76	14772	1.02 ug/L #	1
18) trans-1,2-Dichloroethene	8.65	96	4724	0.89 ug/L	84
19) MTBE	8.79	73	7653m	1.15 ug/L	
20) 1,1-Dichloroethane	8.99	63	8613	0.74 ug/L	92
21) Vinyl Acetate	9.14	43	9284	1.07 ug/L #	94
22) n-Hexane	9.50	86	1951	1.58 ug/L	74
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	9.54	45	19595	1.14 ug/L #	47
25) cis-1,2-Dichloroethene	9.74	96	4675	0.96 ug/L #	77
26) Bromochloromethane	9.94	128	1106	0.66 ug/L	91
27) Chloroform	10.00	83	6045	0.88 ug/L #	84
28) 2,2-Dichloropropane	10.12	77	5883	1.23 ug/L #	85
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	12642	1.21 ug/L #	91
31) Tetrahydrofuran	10.44	72	694	1.33 ug/L	94
32) 1,2-Dichloroethane	10.86	62	3572	0.90 ug/L	95
33) 1,1,1-Trichloroethane	11.00	97	5649	1.01 ug/L #	88
34) (TAME) tert-Amyl methyl et	11.71	73	10064	1.34 ug/L	97
36) 1,1-Dichloropropene	11.23	75	6559	0.69 ug/L	95
37) Carbon Tetrachloride	11.48	117	2885	0.58 ug/L #	90
38) Benzene	11.53	78	17686	0.76 ug/L	100
39) Dibromomethane	12.27	93	1395	0.71 ug/L #	52
40) 1,2-Dichloropropane	12.31	63	4835	0.78 ug/L #	84

(#) = qualifier out of range (m) = manual integration
07091212.D 062612.M Mon Jul 09 16:13:41 2012

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:13 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

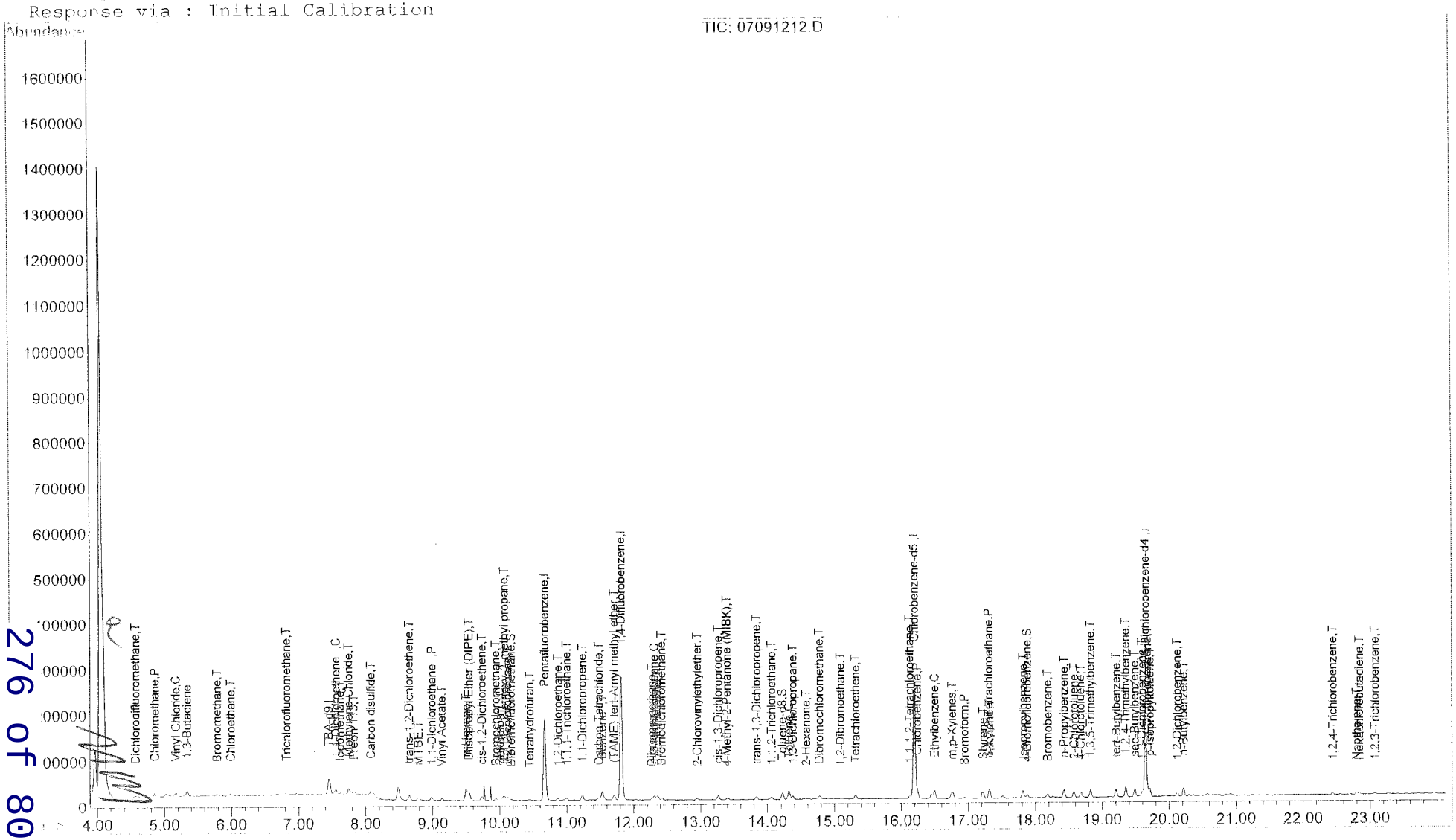
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	3367m	0.66 ug/L	
42) Bromodichloromethane	12.42	83	4151	0.98 ug/L #	83
43) 2-Chlorovinylethylether	12.94	63	1743	1.01 ug/L #	60
44) cis-1,3-Dichloropropene	13.26	75	5619	0.83 ug/L #	80
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	4584	0.90 ug/L	97
46) trans-1,3-Dichloropropene	13.83	75	4193	0.85 ug/L #	88
47) 1,1,2-Trichloroethane	14.05	97	1766m	0.72 ug/L	
49) Toluene	14.32	92	9155	0.69 ug/L #	96
51) 1,3-Dichloropropane	14.38	76	4204	0.78 ug/L #	83
52) 2-Hexanone	14.58	43	2666	0.87 ug/L #	92
53) Dibromochloromethane	14.76	129	1736	0.72 ug/L	92
54) 1,2-Dibromoethane	15.10	107	1734	0.72 ug/L	86
55) Tetrachloroethene	15.31	164	2232	0.61 ug/L	91
56) 1,1,1,2-Tetrachloroethane	16.13	131	2139	0.78 ug/L	93
57) Chlorobenzene	16.24	112	7394	0.74 ug/L #	65
58) Ethylbenzene	16.50	91	15906	0.73 ug/L	97
59) m,p-Xylenes	16.75	106	5674	0.67 ug/L	94
60) Styrene	17.22	104	7799	0.76 ug/L #	82
61) o-Xylene	17.32	106	5137	0.75 ug/L	97
64) Bromoform	16.94	173	889	0.82 ug/L #	65
65) 1,1,2,2-Tetrachloroethane	17.30	83	2697m	0.81 ug/L	
66) 1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67) trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68) Isopropylbenzene	17.82	105	12322	0.68 ug/L	98
69) Bromobenzene	18.18	156	2131	0.70 ug/L	85
70) n-Propylbenzene	18.43	91	17552	0.72 ug/L	98
71) 2-Chlorotoluene	18.58	91	9526	0.75 ug/L	95
72) 4-Chlorotoluene	18.68	91	8907	0.75 ug/L	97
73) 1,3,5-Trimethylbenzene	18.82	105	9834	0.69 ug/L	96
74) tert-Butylbenzene	19.21	119	8521	0.64 ug/L	96
75) 1,2,4-Trimethylbenzene	19.35	105	9471	0.70 ug/L	100
76) sec-Butylbenzene	19.49	105	14668	0.67 ug/L	98
77) 1,3-Dichlorobenzene	19.59	146	4423	0.72 ug/L #	89
78) 1,4-Dichlorobenzene	19.68	146	4329	0.73 ug/L #	81
79) p-Isopropyltoluene	19.71	119	10202	0.67 ug/L	97
80) 1,2-Dichlorobenzene	20.12	146	3382	0.56 ug/L #	87
81) n-Butylbenzene	20.21	91	11486	0.68 ug/L	99
82) 1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83) 1,2,4-Trichlorobenzene	22.44	180	1504	0.48 ug/L #	87
84) Napthalene	22.80	128	3723	0.42 ug/L	95
85) Hexachlorobutadiene	22.84	225	1016	0.34 ug/L	97
86) 1,2,3-Trichlorobenzene	23.07	180	1111	0.38 ug/L	91

(#) = qualifier out of range (m) = manual integration
07091212.D 062612.M Mon Jul 09 16:13:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:13 2012 Quant Results File: 062612.RES

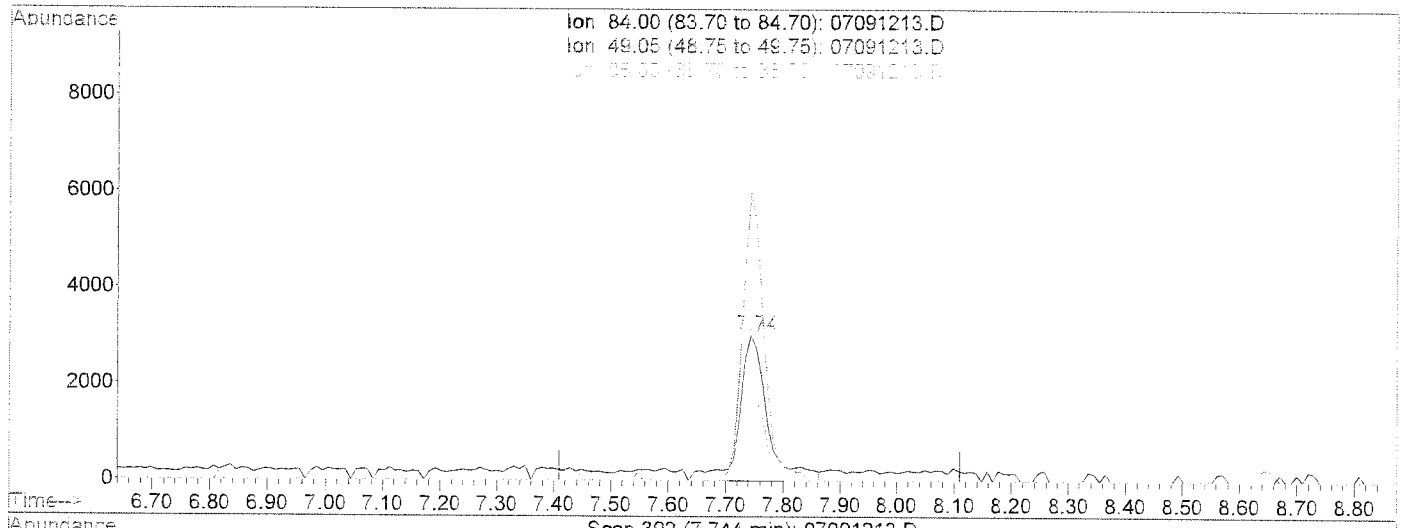
Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

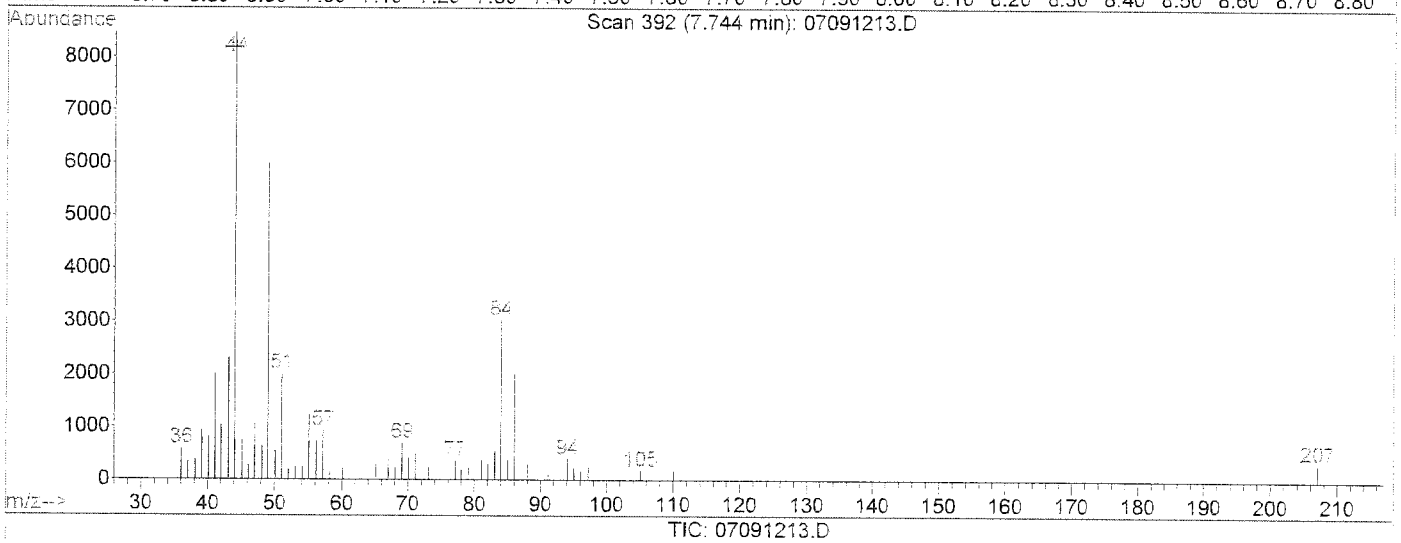


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(15) Methylene Chloride (T)

7.74min 2.45ug/L

response 10291

Ion	Exp%	Act%
84.00	100	100
49.05	186.20	149.41
86.00	63.30	48.53#
0.00	0.00	0.00

B

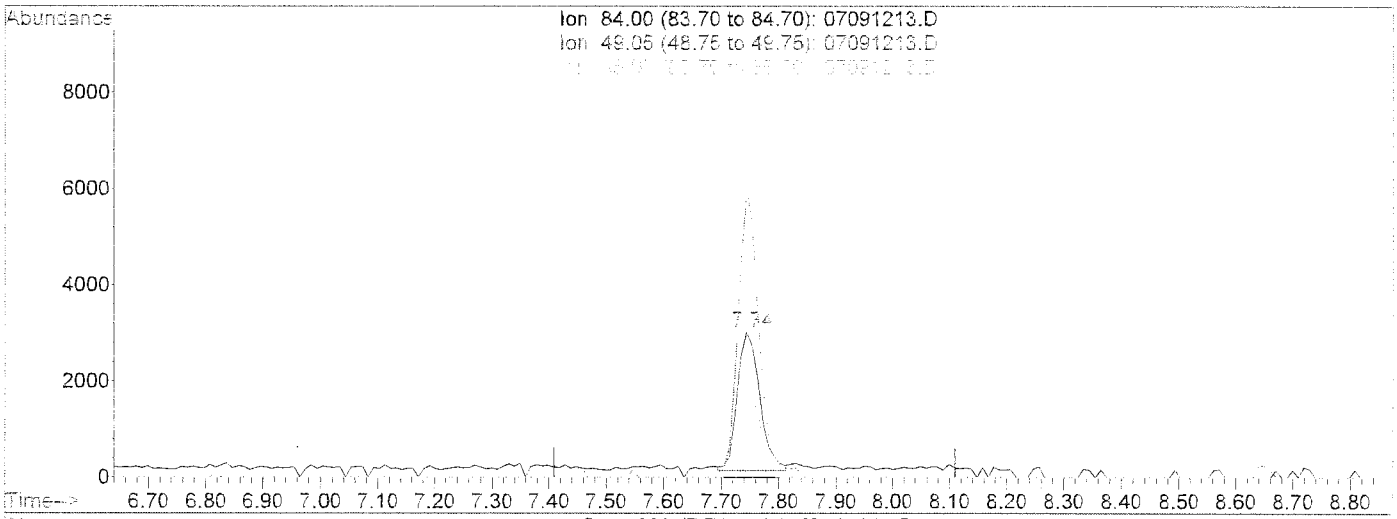
BL

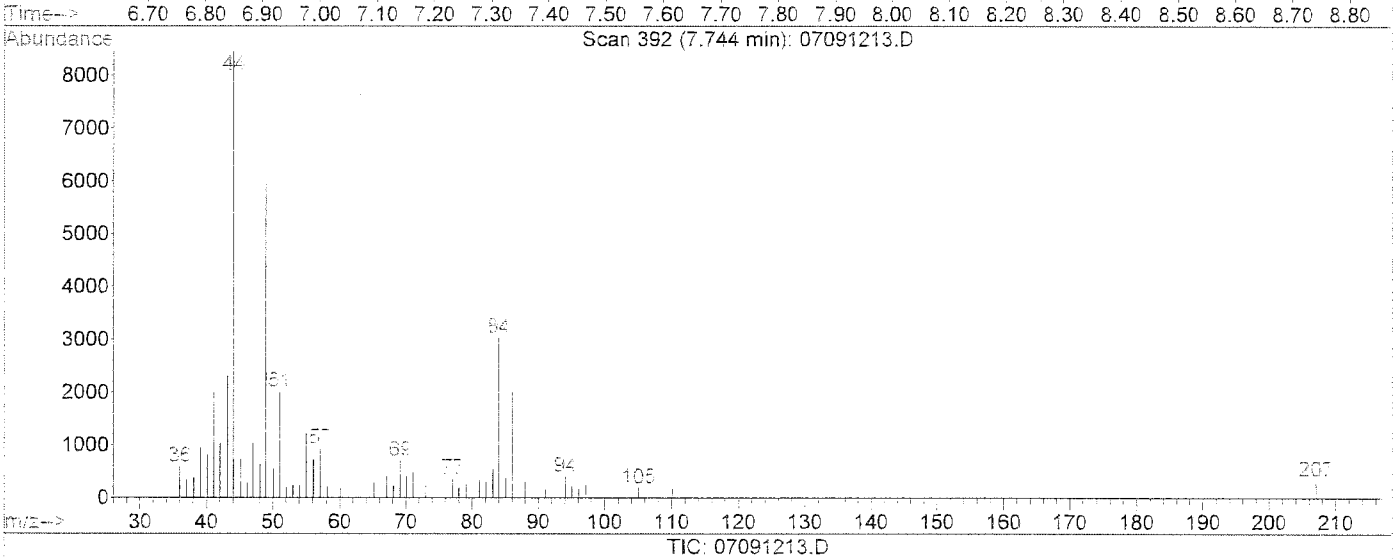
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(15) Methylene Chloride (T)

7.74min 1.69ug/L m

response 7866

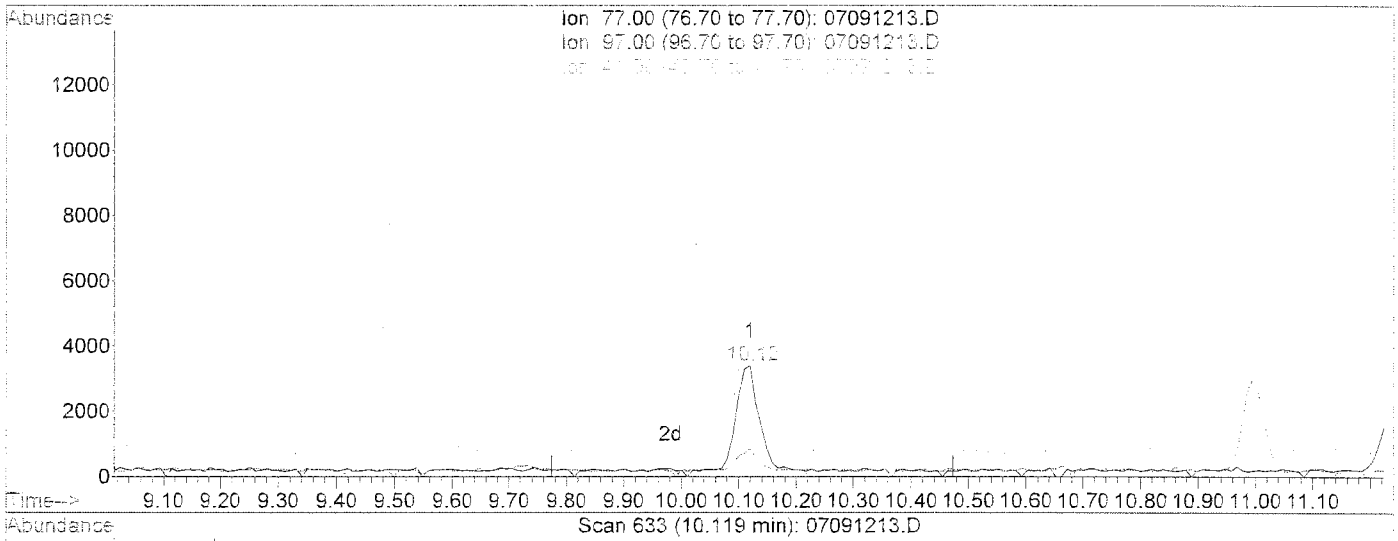
Ion	Exp%	Act%
84.00	100	100
49.05	186.20	195.47
86.00	63.30	63.49
0.00	0.00	0.00

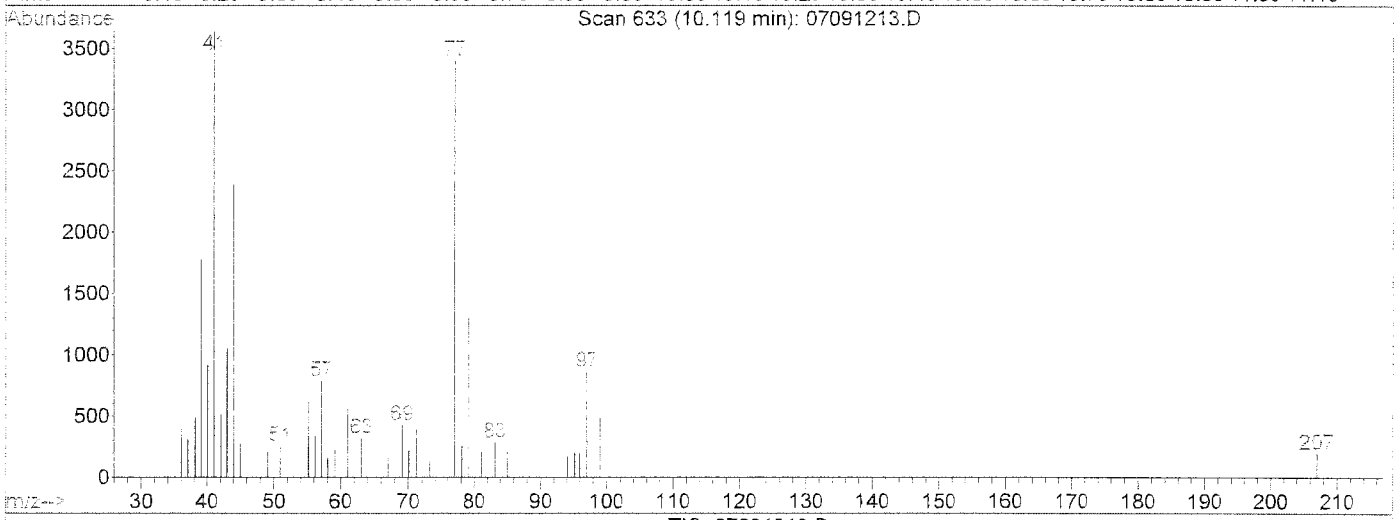
A
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(28) 2,2-Dichloropropane (T)

10.12min 2.94ug/L

response 11030

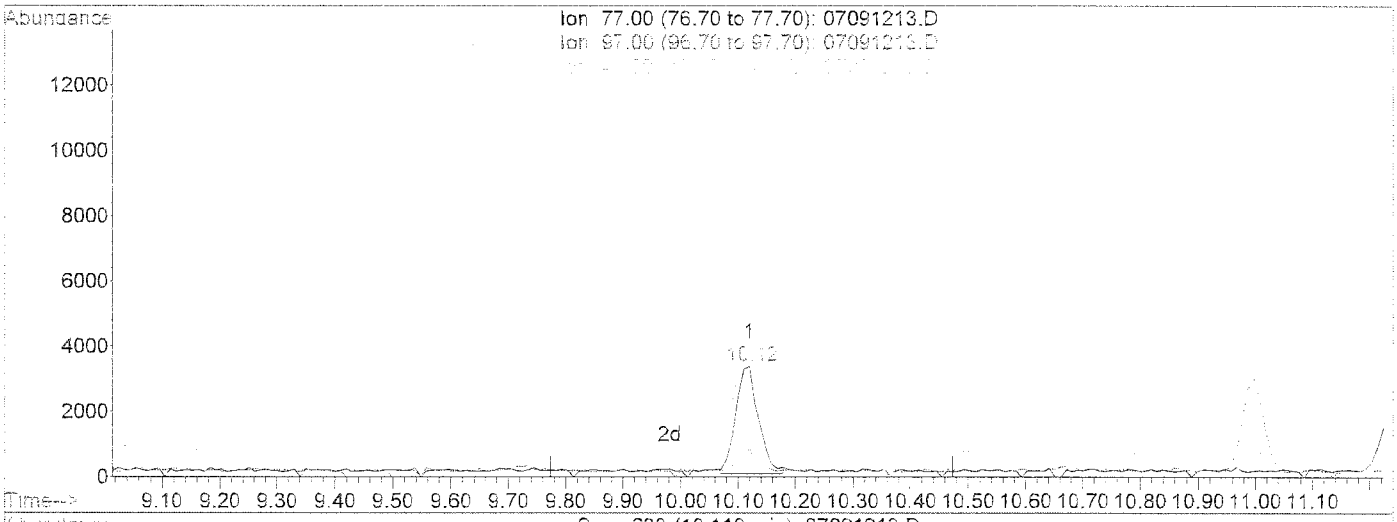
Ion	Exp%	Act%
77.00	100	100
97.00	21.40	16.45#
41.00	83.90	75.64
0.00	0.00	0.00

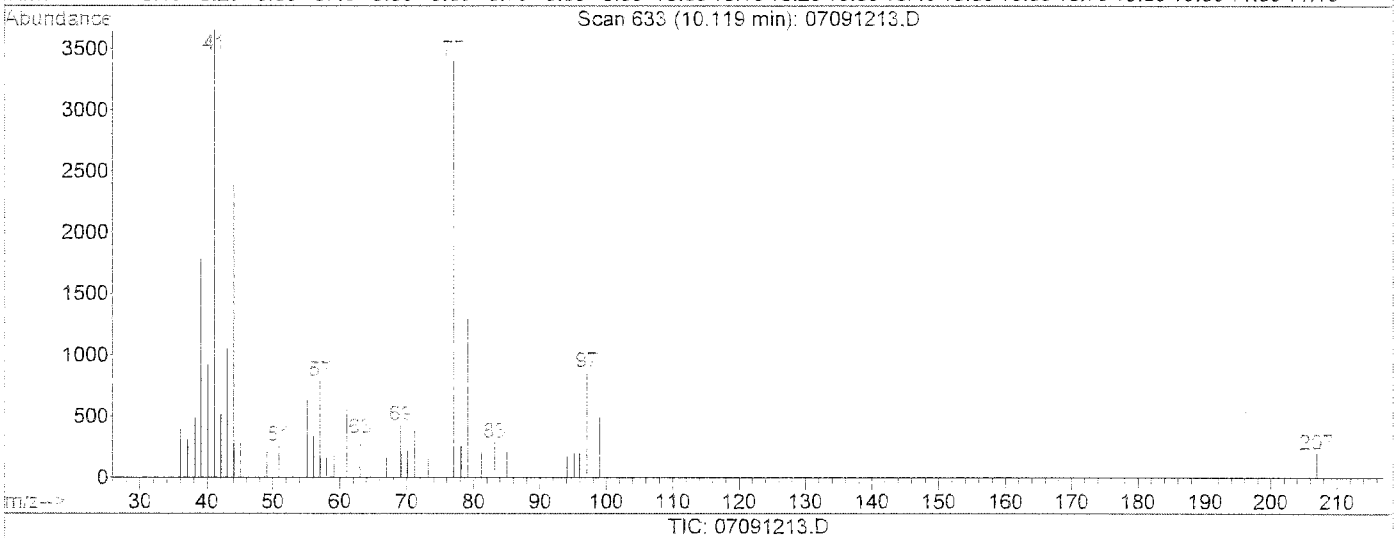
B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(28) 2,2-Dichloropropane (T)

10.12min 2.33ug/L m

response 9139

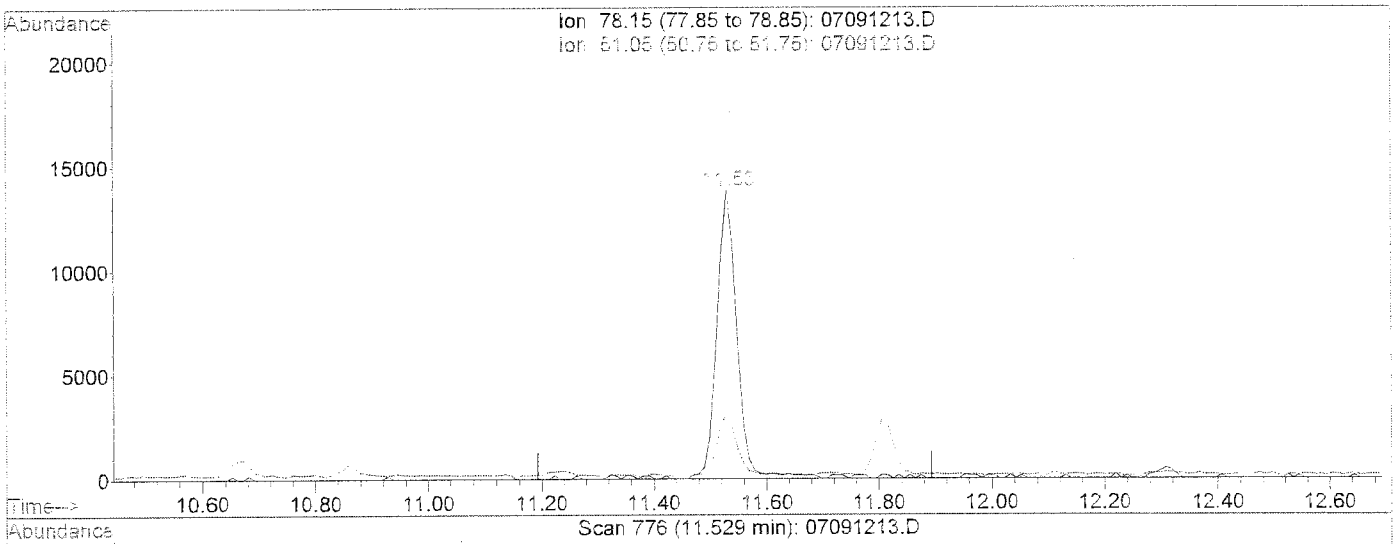
Ion	Exp%	Act%
77.00	100	100
97.00	21.40	19.85
41.00	83.90	91.29
0.00	0.00	0.00

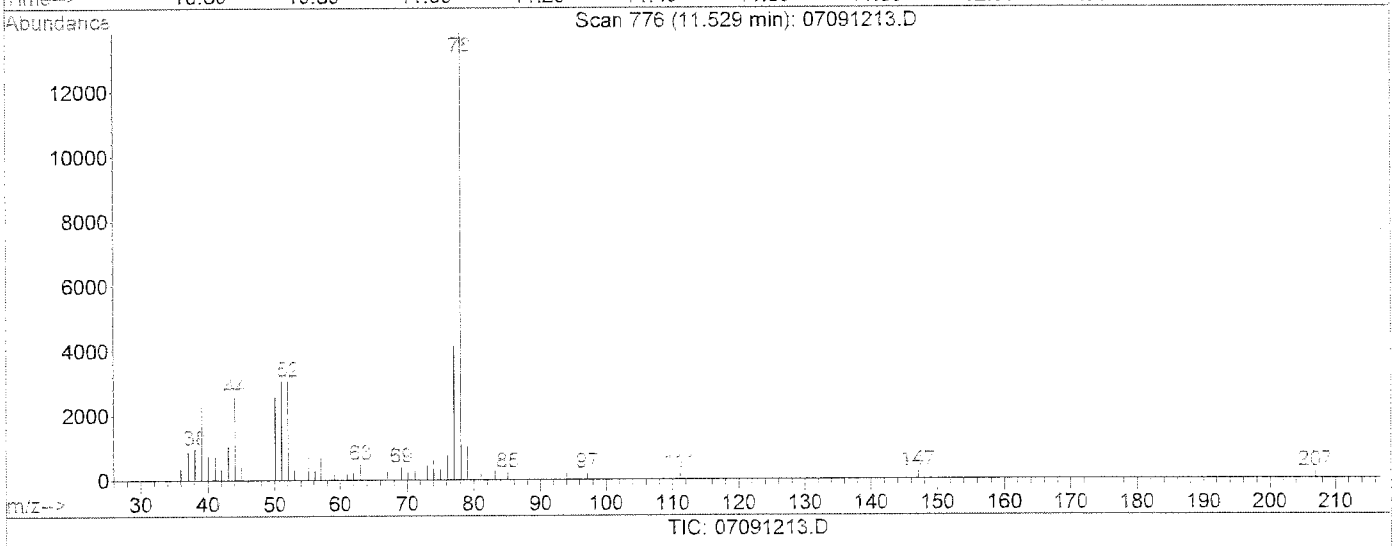
A
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(38) Benzene (T)

11.53min 1.90ug/L

response 33911

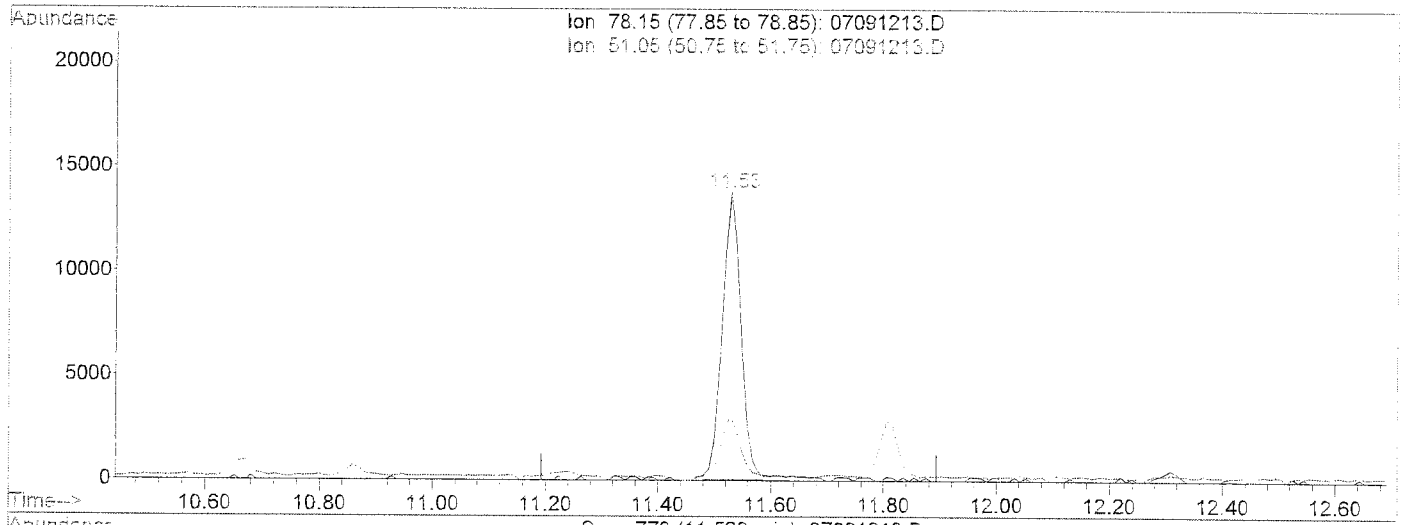
Ion	Exp%	Act%
78.15	100	100
51.05	19.80	26.01#
0.00	0.00	0.00
0.00	0.00	0.00

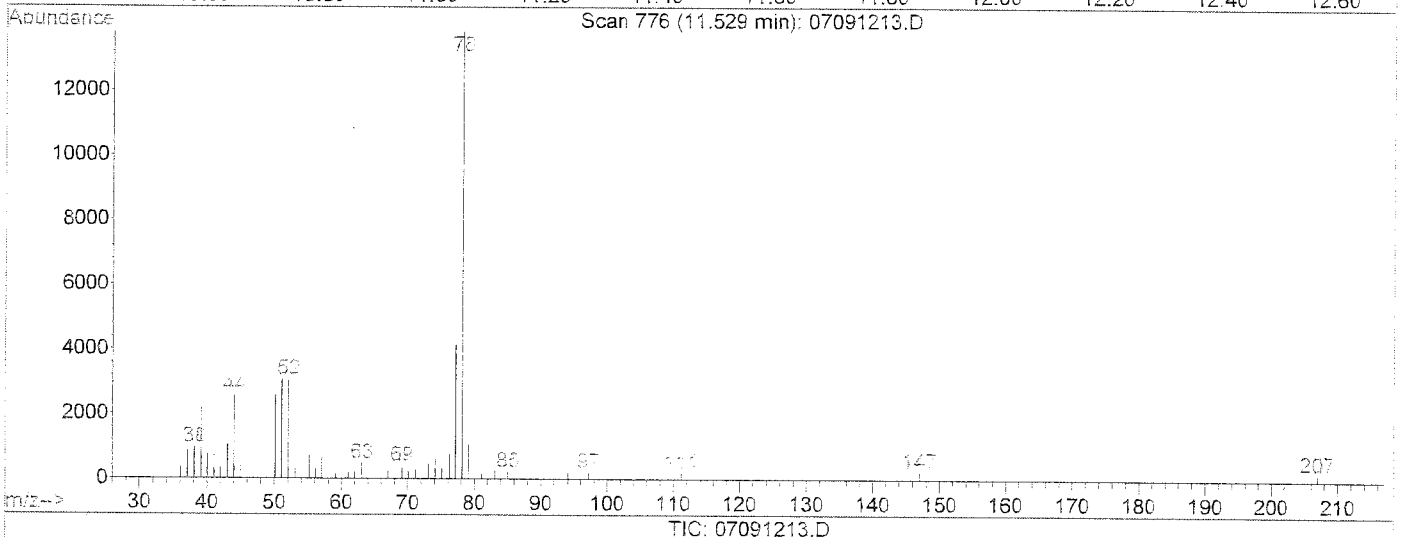
B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(38) Benzene (T)

11.53min 1.78ug/L m

response 32172

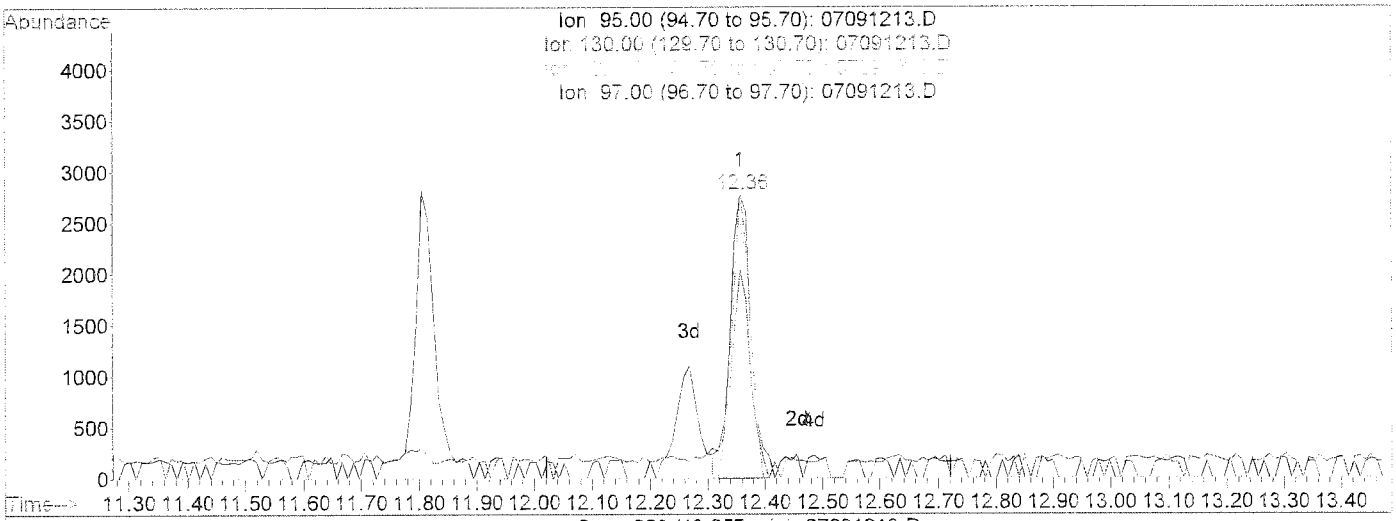
Ion	Exp%	Act%
78.15	100	100
51.05	19.80	27.42#
0.00	0.00	0.00
0.00	0.00	0.00

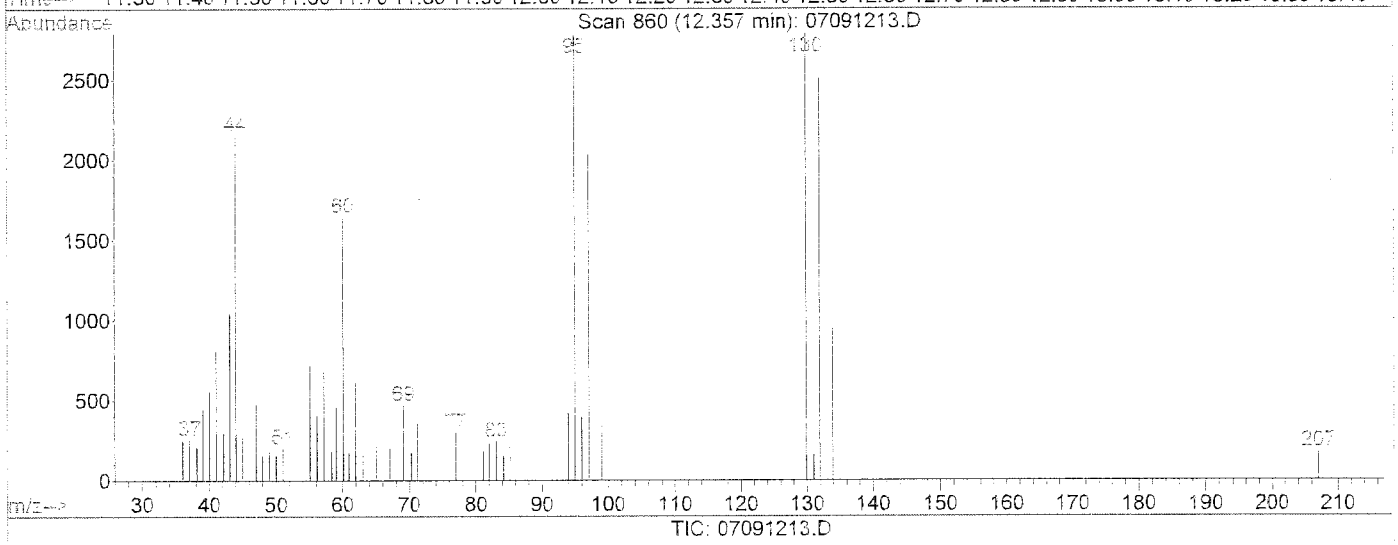
A
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(41) Trichloroethene (T)

12.36min 1.94ug/L

response 7069

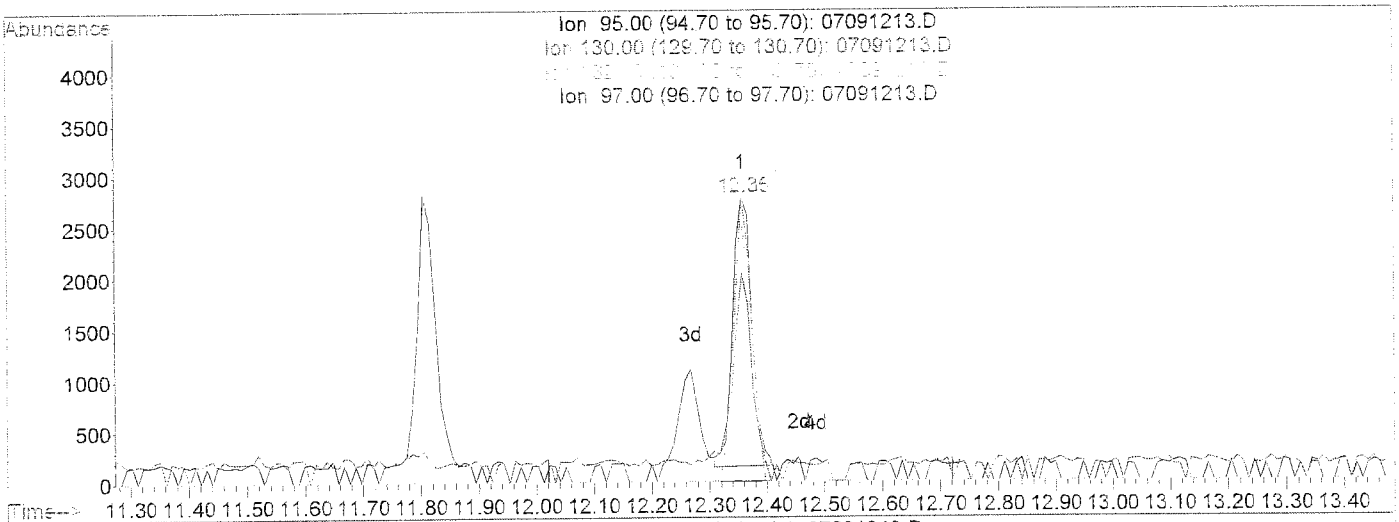
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	85.37
132.00	92.00	82.23
97.00	67.90	77.80

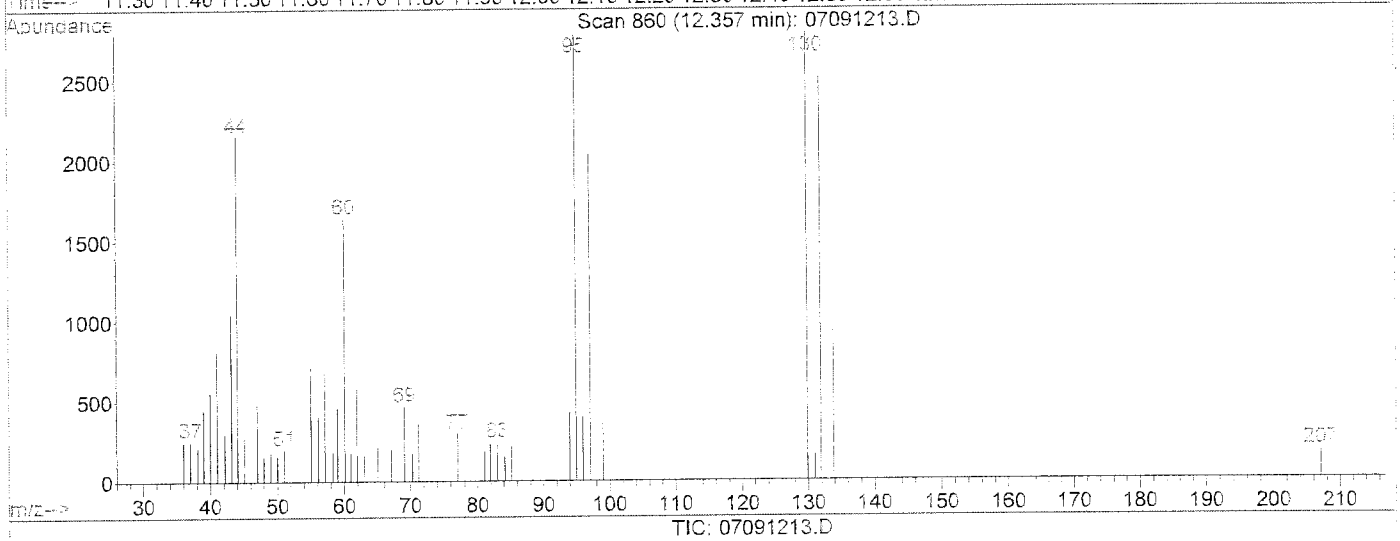
B
BL
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(41) Trichloroethene (T)

12.36min 1.65ug/L m

response 6199

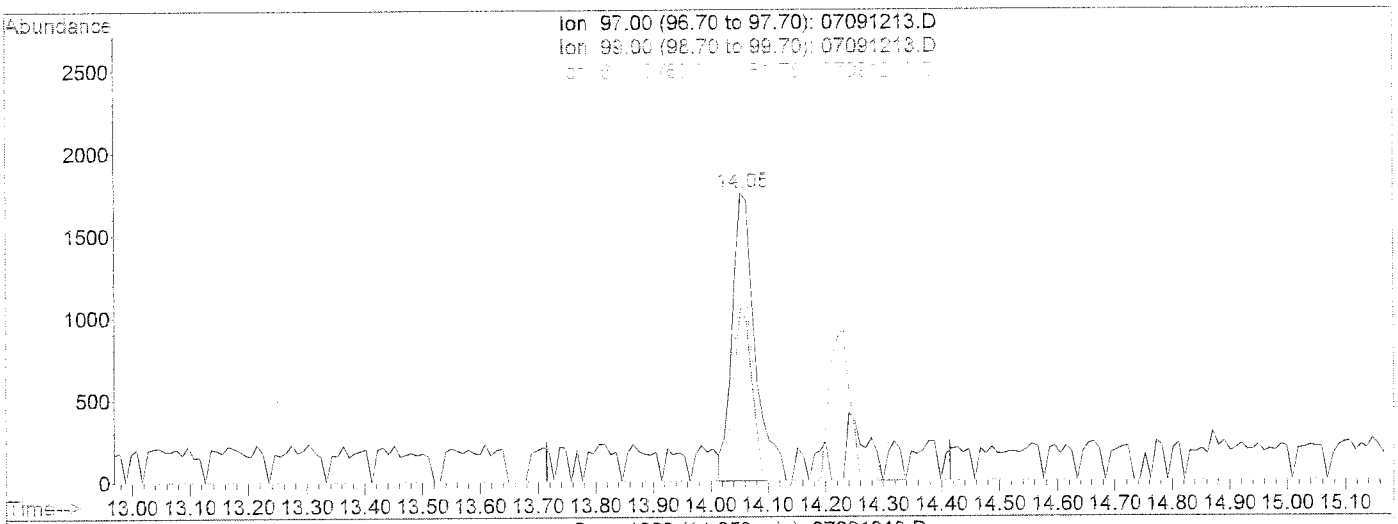
Ion	Exp%	Act%
95.00	100	100
130.00	96.80	97.35
132.00	92.00	93.77
97.00	67.90	88.72#

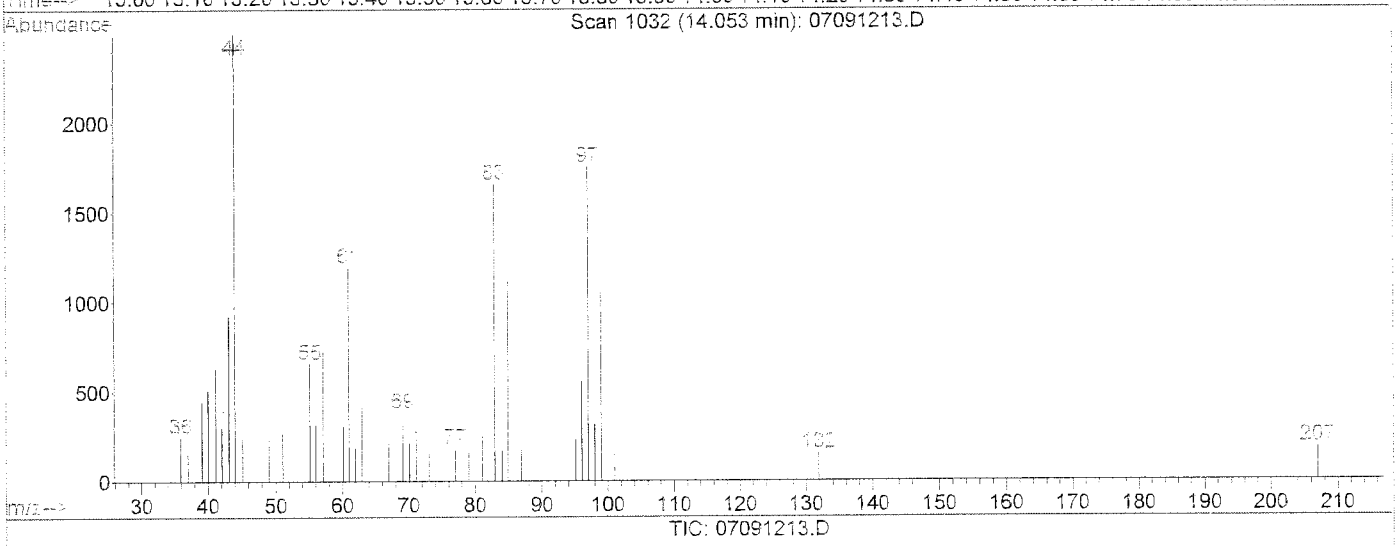
A
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(47) 1,1,2-Trichloroethane (T)

14.05min 2.41ug/L

response 4909

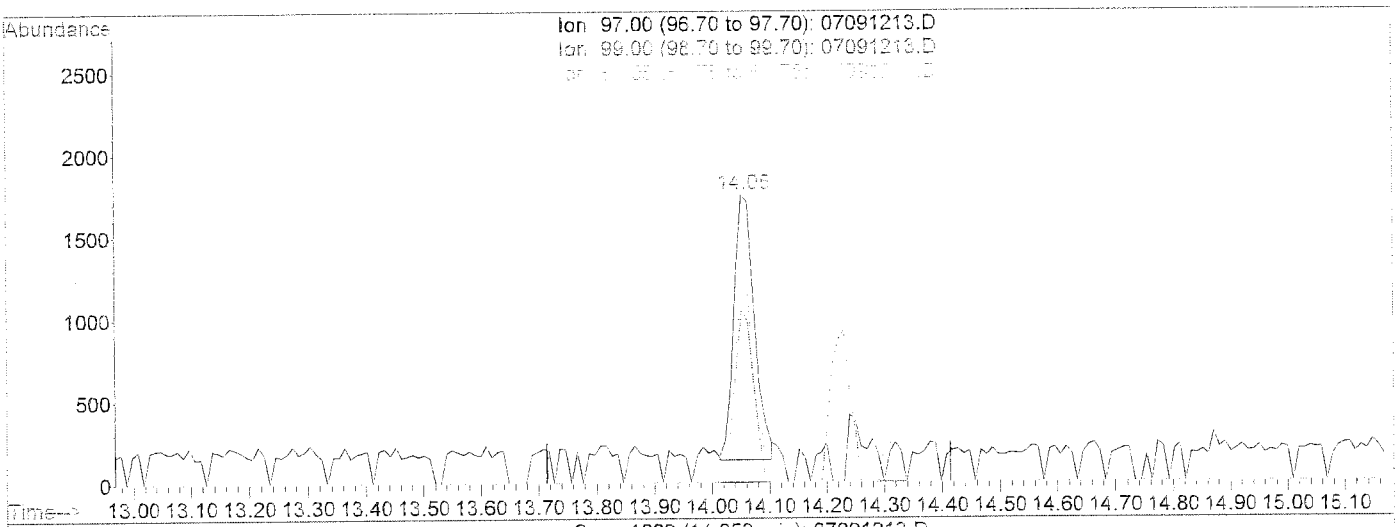
Ion	Exp%	Act%
97.00	100	100
99.00	61.10	49.50
61.05	71.30	60.44
0.00	0.00	0.00

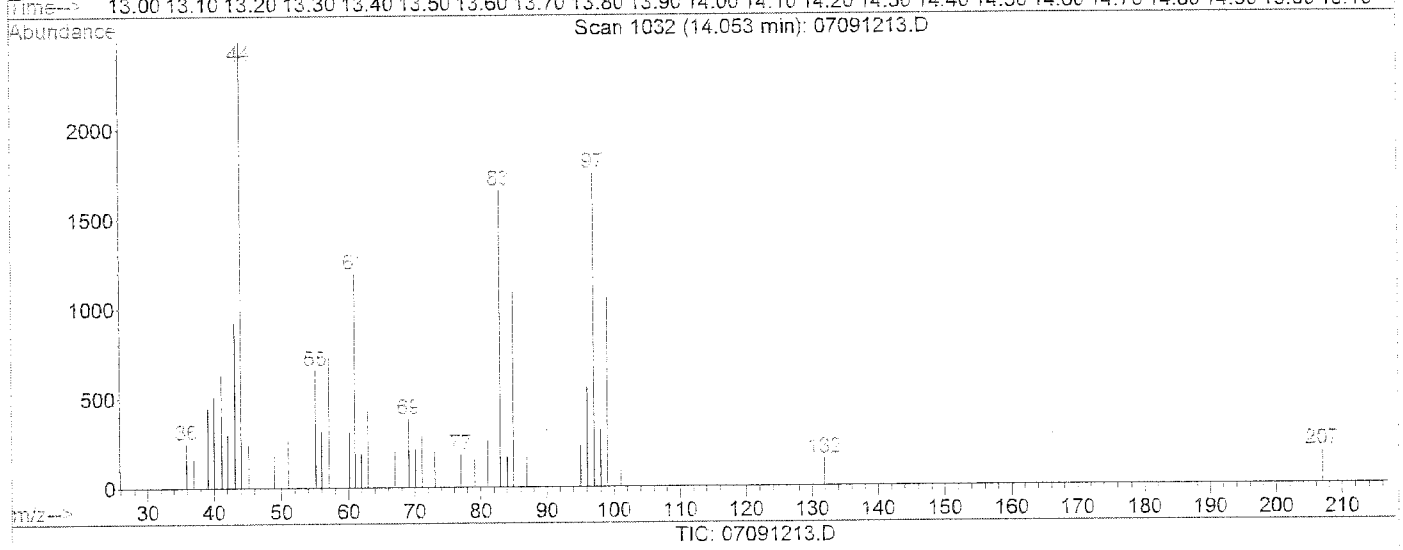
B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(47) 1,1,2-Trichloroethane (T)

14.05min 1.91ug/L m

response 3959

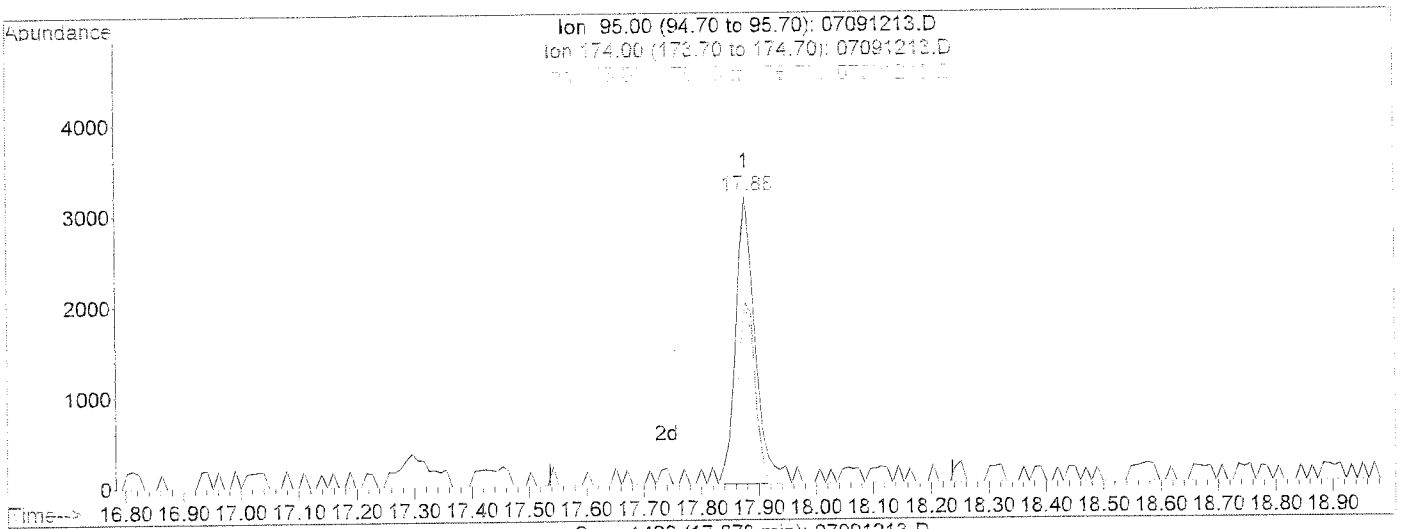
Ion	Exp%	Act%
97.00	100	100
99.00	61.10	61.38
61.05	71.30	74.94
0.00	0.00	0.00

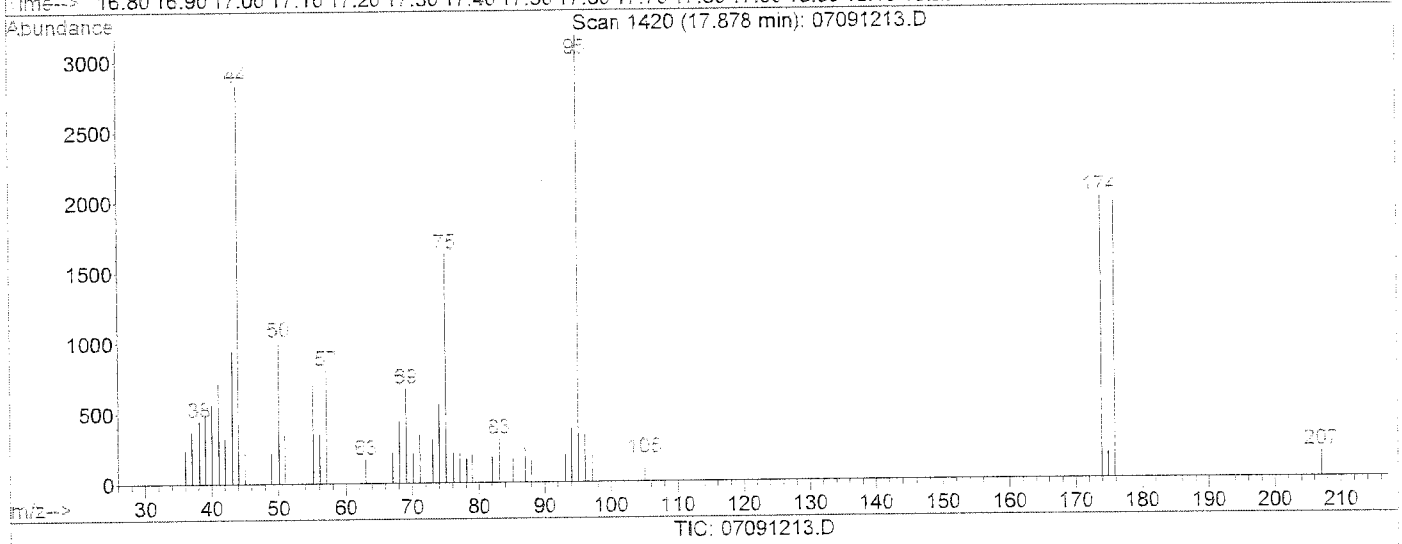
A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(62) 4-Bromofluorobenzene (S)

17.88min 2.50ug/L

response 7802

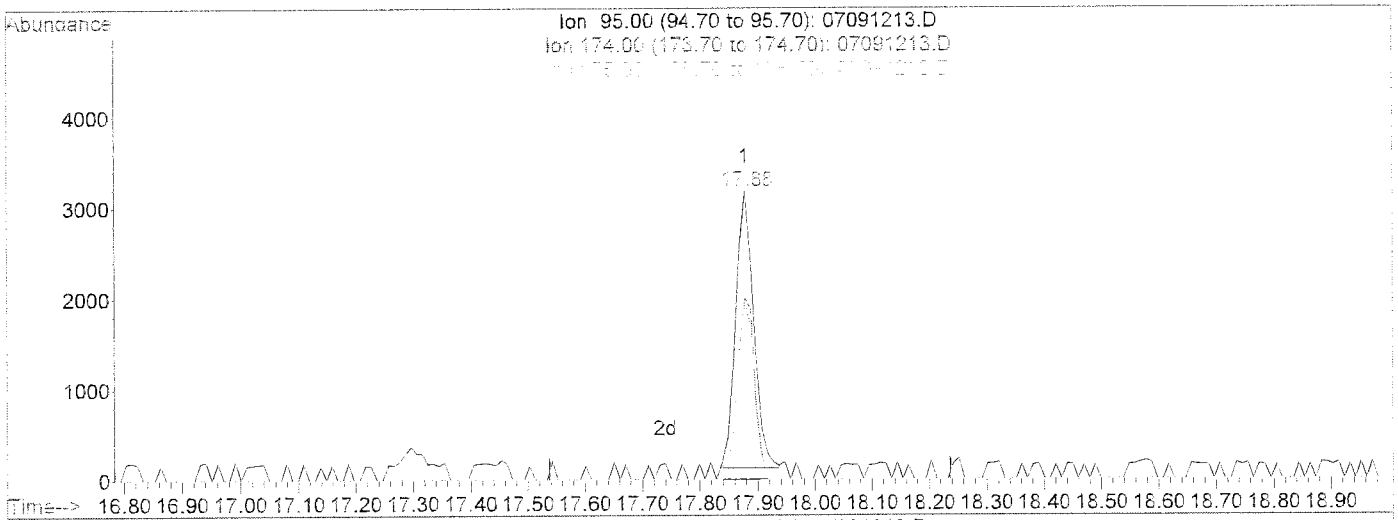
Ion	Exp%	Act%
95.00	100	100
174.00	70.30	53.50#
176.00	67.20	52.91#
0.00	0.00	0.00

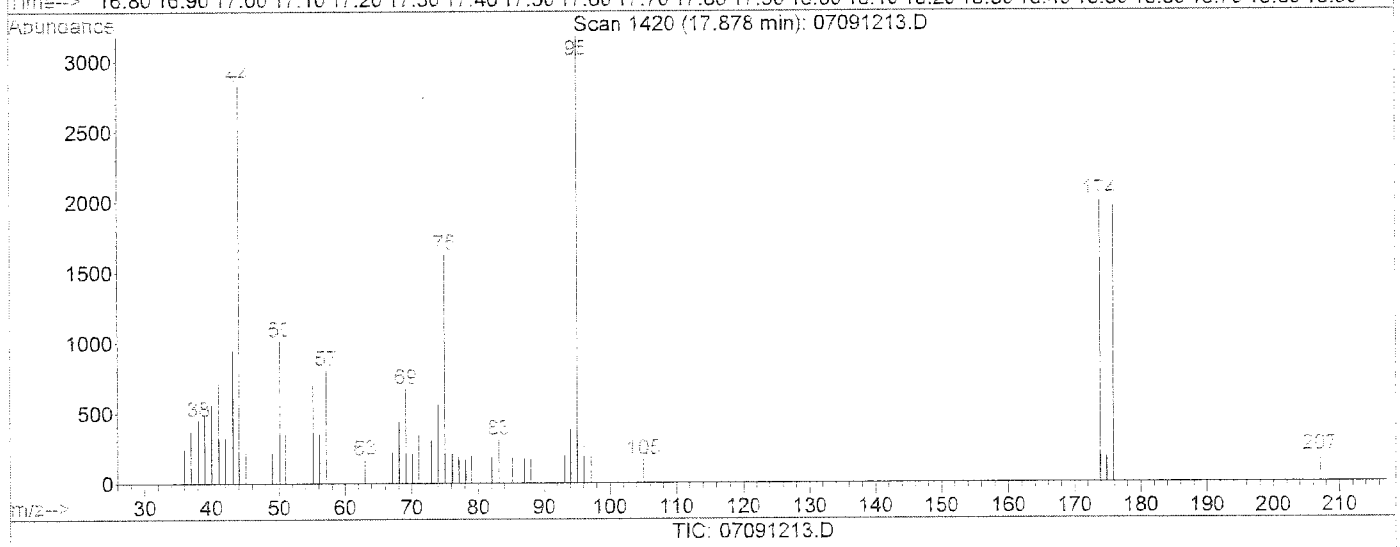
B
BL
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091213.D

(62) 4-Bromofluorobenzene (S)

17.88min 2.12ug/L m

response 6624

Ion	Exp%	Act%
95.00	100	100
174.00	70.30	63.01
176.00	67.20	62.32
0.00	0.00	0.00

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	60461	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.67	168	134944	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	232744	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	168319	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	62140	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	4760	2.01 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 8.04%	
48) Toluene-d8	14.22	98	20965	1.96 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 7.84%	
62) 4-Bromofluorobenzene	17.88	95	6624m	2.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.48%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.57	59	4771	12.30 ug/L #	94
5) Dichlorodifluoromethane	4.58	85	8809	2.19 ug/L	98
6) Chloromethane	4.86	50	16997	2.06 ug/L	93
7) Vinyl Chloride	5.16	62	14461	2.06 ug/L	91
8) 1,3-Butadiene	5.34	54	11477	1.27 ug/L	95
9) Bromomethane	5.77	94	6276	2.20 ug/L	82
10) Chloroethane	5.99	64	8906	2.20 ug/L #	90
11) Trichlorofluoromethane	6.83	101	6600	2.10 ug/L	98
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.62	142	7544	1.85 ug/L	97
14) 1,1-Dichloroethene	7.56	96	8416	2.14 ug/L	83
15) Methylene Chloride	7.74	84	7866m	1.69 ug/L	
16) Freon 113	7.82	101	6429	2.01 ug/L	96
17) Carbon disulfide	8.08	76	28010	1.97 ug/L #	1
18) trans-1,2-Dichloroethene	8.65	96	9041	2.22 ug/L	83
19) MTBE	8.79	73	16228	2.50 ug/L	96
20) 1,1-Dichloroethane	8.98	63	17020	1.94 ug/L	98
21) Vinyl Acetate	9.14	43	17313	2.05 ug/L	99
22) n-Hexane	9.50	86	2782	2.30 ug/L	93
23) 2-Butanone (MEK)	9.55	72	711	1.64 ug/L #	57
24) Diisopropyl Ether (DIPE)	9.54	45	36187	2.15 ug/L	94
25) cis-1,2-Dichloroethene	9.73	96	7394	1.85 ug/L	95
26) Bromochloromethane	9.94	128	2140	1.56 ug/L	78
27) Chloroform	10.00	83	10723	1.92 ug/L	93
28) 2,2-Dichloropropane	10.12	77	9139m	2.33 ug/L	
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	23339	2.28 ug/L	94
31) Tetrahydrofuran	10.44	72	993	2.27 ug/L	95
32) 1,2-Dichloroethane	10.86	62	6562	1.95 ug/L	98
33) 1,1,1-Trichloroethane	11.00	97	8077	1.81 ug/L	93
34) (TAME) tert-Amyl methyl et	11.71	73	18293	2.48 ug/L	97
36) 1,1-Dichloropropene	11.23	75	12081	1.76 ug/L	99
37) Carbon Tetrachloride	11.47	117	5742	1.71 ug/L #	95
38) Benzene	11.53	78	32172m	1.78 ug/L	
39) Dibromomethane	12.26	93	2778	1.76 ug/L #	79
40) 1,2-Dichloropropane	12.31	63	8604	1.78 ug/L #	89

(#) = qualifier out of range (m) = manual integration
07091213.D 062612.M Mon Jul 09 16:19:05 2012

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Trichloroethene	12.36	95	6199m	1.65 ug/L		
42) Bromodichloromethane	12.43	83	6906	1.85 ug/L	#	70
43) 2-Chlorovinylethylether	12.95	63	3267	1.93 ug/L	#	85
44) cis-1,3-Dichloropropene	13.26	75	10455	1.82 ug/L	#	82
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	8016	1.87 ug/L		99
46) trans-1,3-Dichloropropene	13.84	75	7857	1.84 ug/L	#	87
47) 1,1,2-Trichloroethane	14.05	97	3959m	1.91 ug/L		
49) Toluene	14.32	92	16740	1.73 ug/L		97
51) 1,3-Dichloropropane	14.38	76	8290	1.83 ug/L		93
52) 2-Hexanone	14.57	43	4998	1.68 ug/L	#	83
53) Dibromochloromethane	14.75	129	3487	1.68 ug/L		99
54) 1,2-Dibromoethane	15.10	107	3470	1.71 ug/L		92
55) Tetrachloroethene	15.31	164	4471	1.69 ug/L		95
56) 1,1,1,2-Tetrachloroethane	16.12	131	3952	1.77 ug/L		93
57) Chlorobenzene	16.24	112	14116	1.77 ug/L	#	74
58) Ethylbenzene	16.50	91	29076	1.74 ug/L		98
59) m,p-Xylenes	16.76	106	10402	1.67 ug/L		94
60) Styrene	17.22	104	14122	1.68 ug/L		92
61) o-Xylene	17.32	106	9411	1.75 ug/L		97
64) Bromoform	16.93	173	1765	1.65 ug/L		97
65) 1,1,2,2-Tetrachloroethane	17.30	83	5453	1.98 ug/L	#	80
66) 1,2,3-Trichloropropane	17.50	110	1098	1.66 ug/L	#	1
67) trans-1,4-Dichloro-2-buten	17.51	53	2089	2.57 ug/L	#	81
68) Isopropylbenzene	17.81	105	23572	1.74 ug/L		95
69) Bromobenzene	18.18	156	4165	1.65 ug/L	#	80
70) n-Propylbenzene	18.43	91	33326	1.78 ug/L		99
71) 2-Chlorotoluene	18.58	91	18013	1.85 ug/L		96
72) 4-Chlorotoluene	18.68	91	17155	1.85 ug/L		95
73) 1,3,5-Trimethylbenzene	18.82	105	18548	1.79 ug/L		98
74) tert-Butylbenzene	19.21	119	15766	1.73 ug/L		92
75) 1,2,4-Trimethylbenzene	19.35	105	17983	1.83 ug/L		97
76) sec-Butylbenzene	19.48	105	27966	1.80 ug/L		99
77) 1,3-Dichlorobenzene	19.59	146	8760	1.84 ug/L	#	94
78) 1,4-Dichlorobenzene	19.68	146	8163	1.75 ug/L	#	92
79) p-Isopropyltoluene	19.71	119	20004	1.81 ug/L		97
80) 1,2-Dichlorobenzene	20.12	146	6937	1.75 ug/L		93
81) n-Butylbenzene	20.21	91	21819	1.80 ug/L		98
82) 1,2-Dibromo-3-chloropropan	20.69	75	660	0.88 ug/L	#	73
83) 1,2,4-Trichlorobenzene	22.44	180	3398	1.61 ug/L		92
84) Napthalene	22.80	128	7290	1.48 ug/L		95
85) Hexachlorobutadiene	22.85	225	2081	1.34 ug/L		96
86) 1,2,3-Trichlorobenzene	23.07	180	2538	1.44 ug/L		90

MM

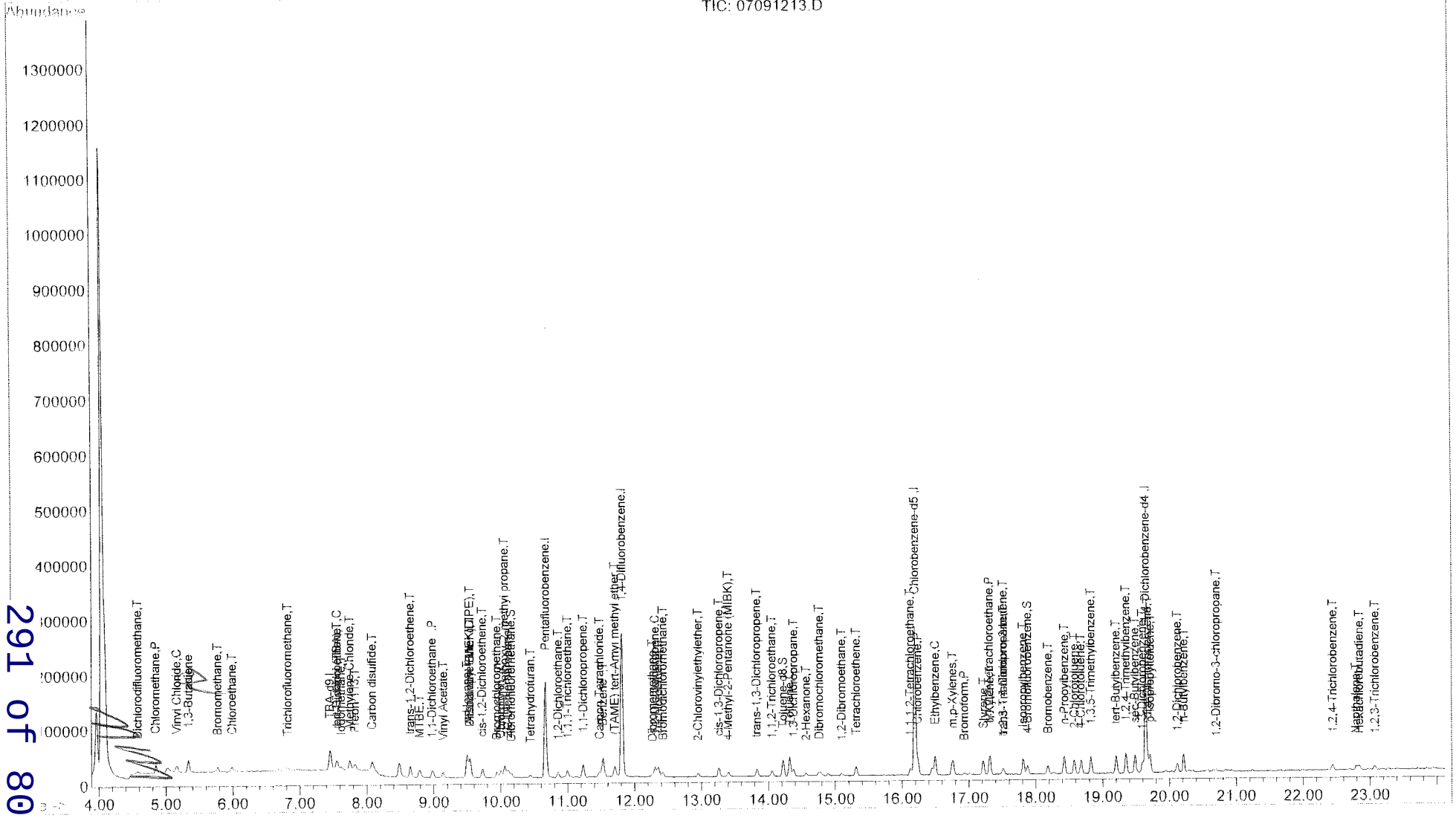
(#) = qualifier out of range (m) = manual integration
07091213.D 062612.M Mon Jul 09 16:19:05 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:18 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

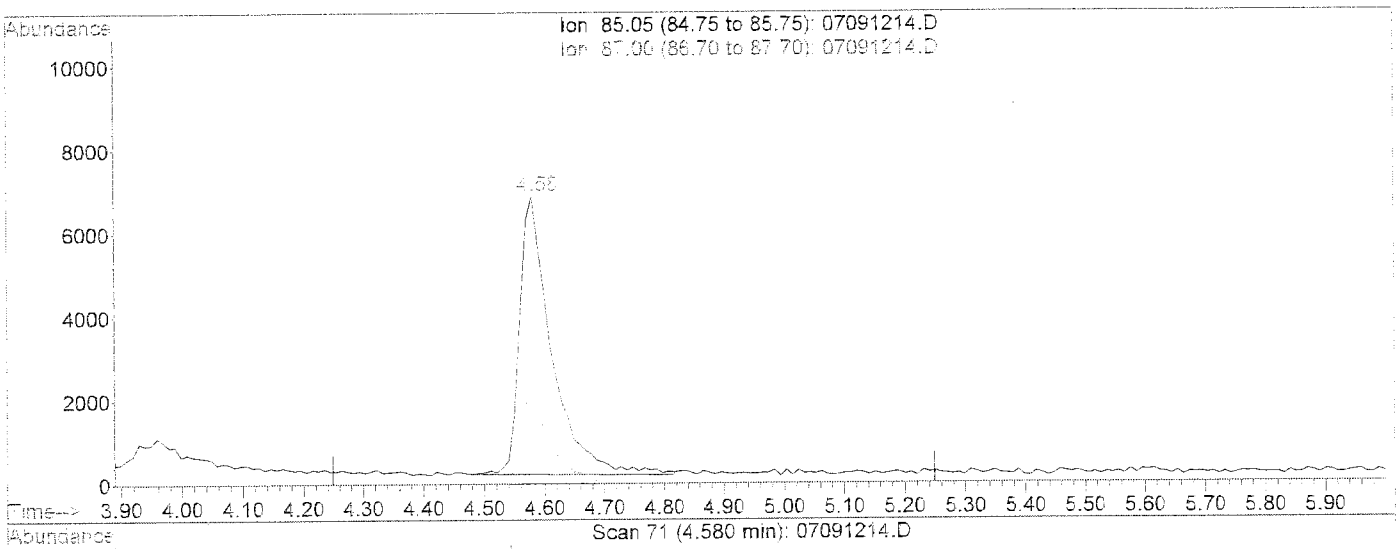
TIC: 07091213.D

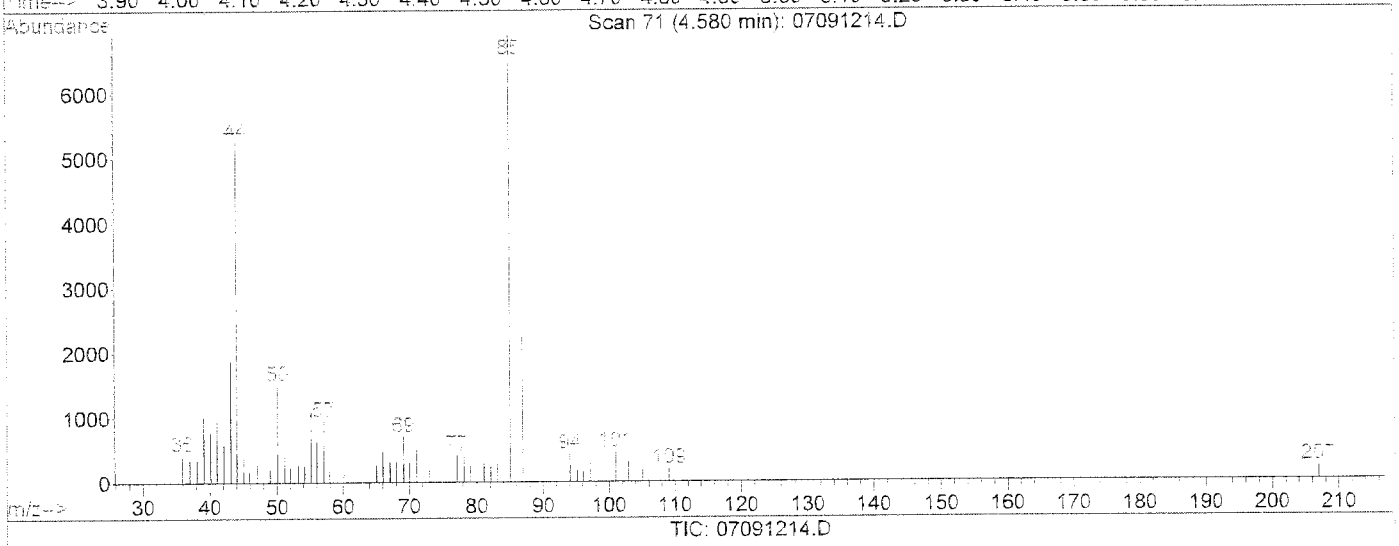


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(5) Dichlorodifluoromethane (T)

4.58min 5.57ug/L

response 24726

Ion	Exp%	Act%
85.05	100	100
87.00	31.90	30.45
0.00	0.00	0.00
0.00	0.00	0.00

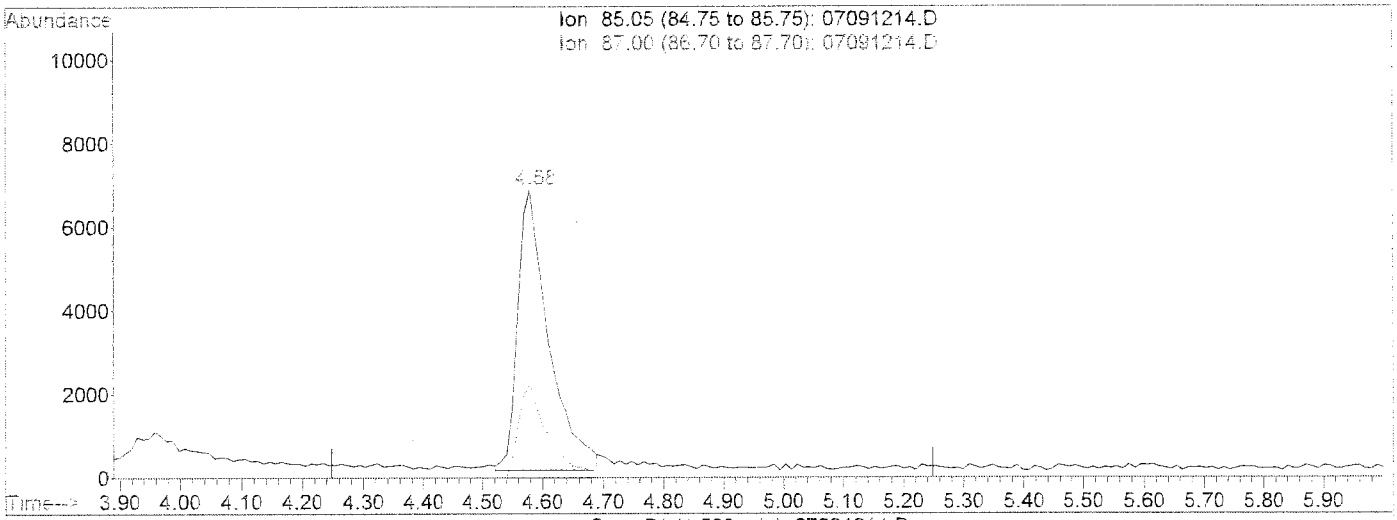
B
BL
MM 7/11/12

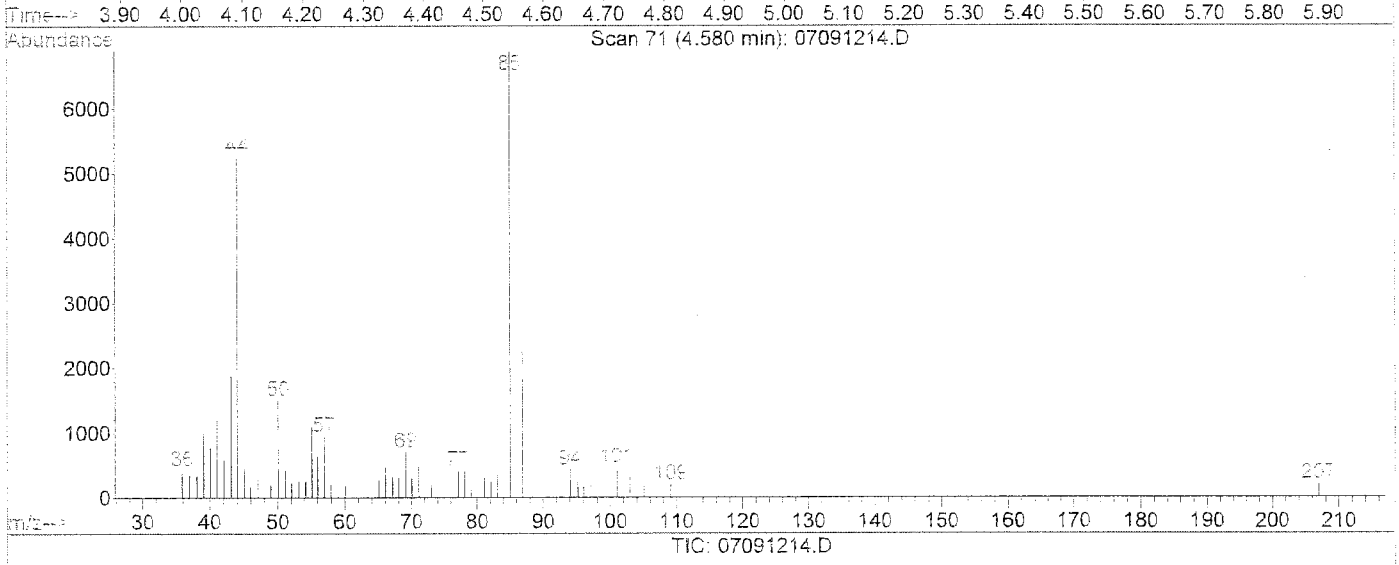
07/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(5) Dichlorodifluoromethane (T)

4.58min 5.39ug/L m

response 23926

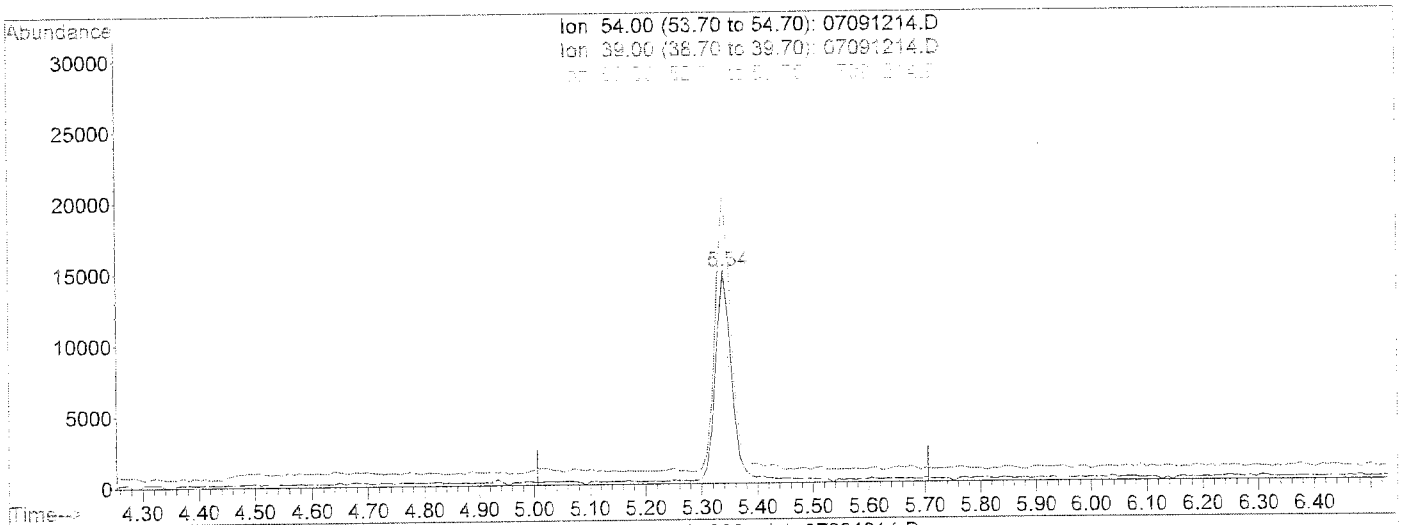
Ion	Exp%	Act%
85.05	100	100
87.00	31.90	31.47
0.00	0.00	0.00
0.00	0.00	0.00

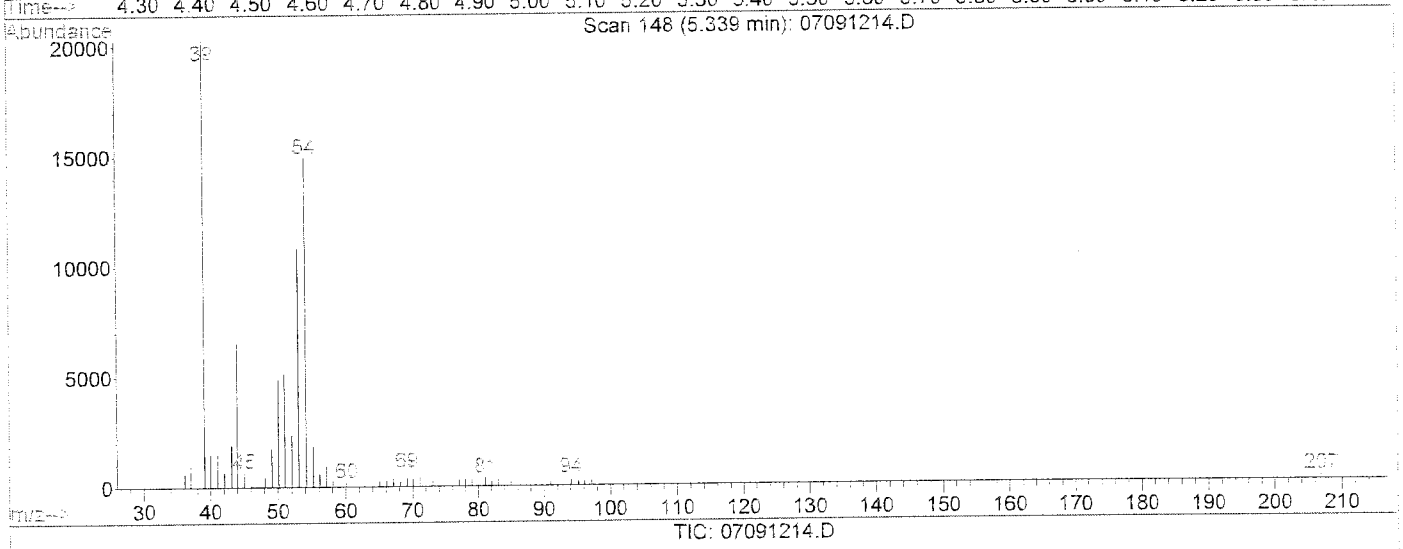
A
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(8) 1,3-Butadiene

5.34min 4.98ug/L

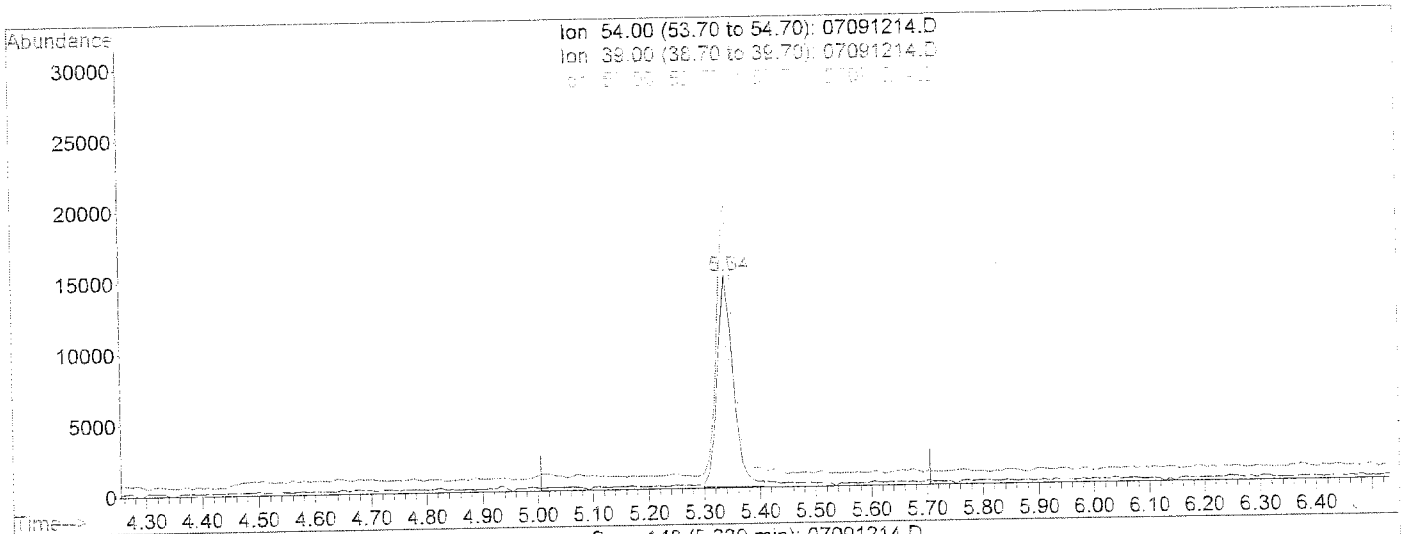
response 32369

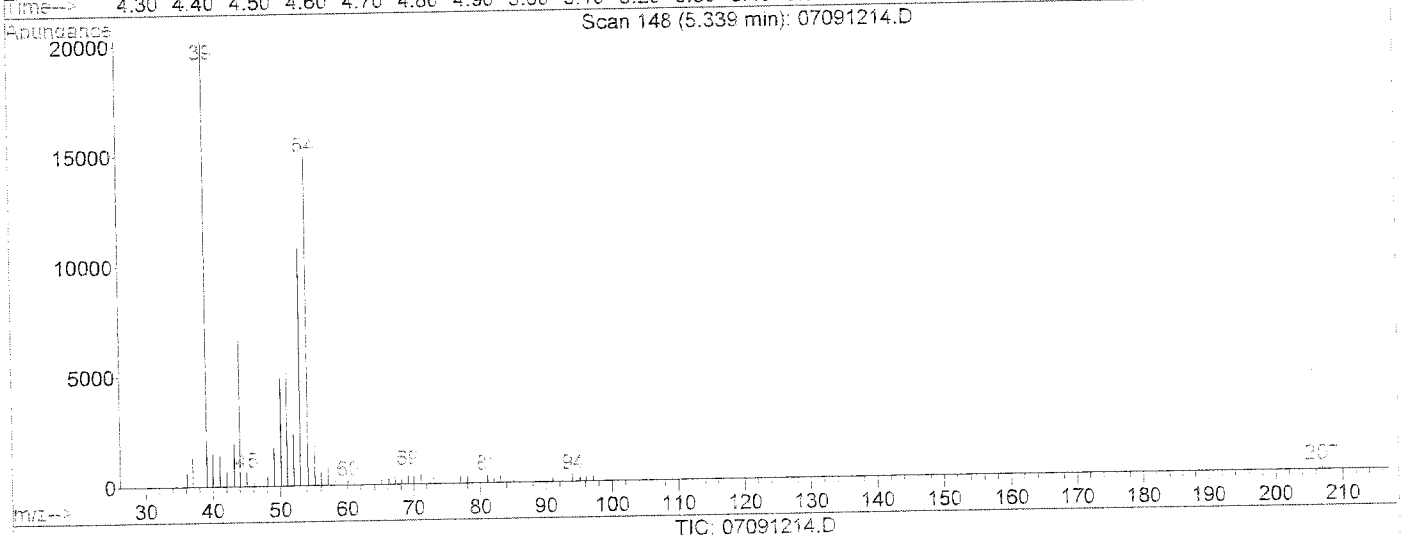
Ion	Exp%	Act%
54.00	100	100
39.00	120.50	121.16
53.00	71.60	68.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(8) 1,3-Butadiene

5.34min 4.44ug/L m

response 29540

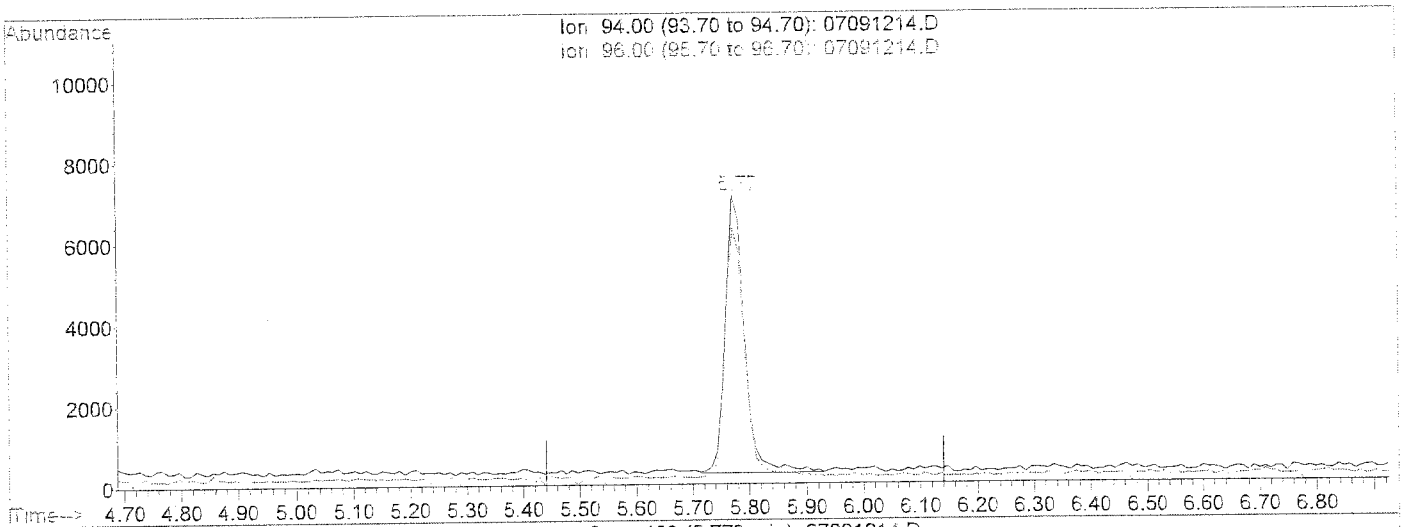
Ion	Exp%	Act%
54.00	100	100
39.00	120.50	132.77
53.00	71.60	75.01
0.00	0.00	0.00

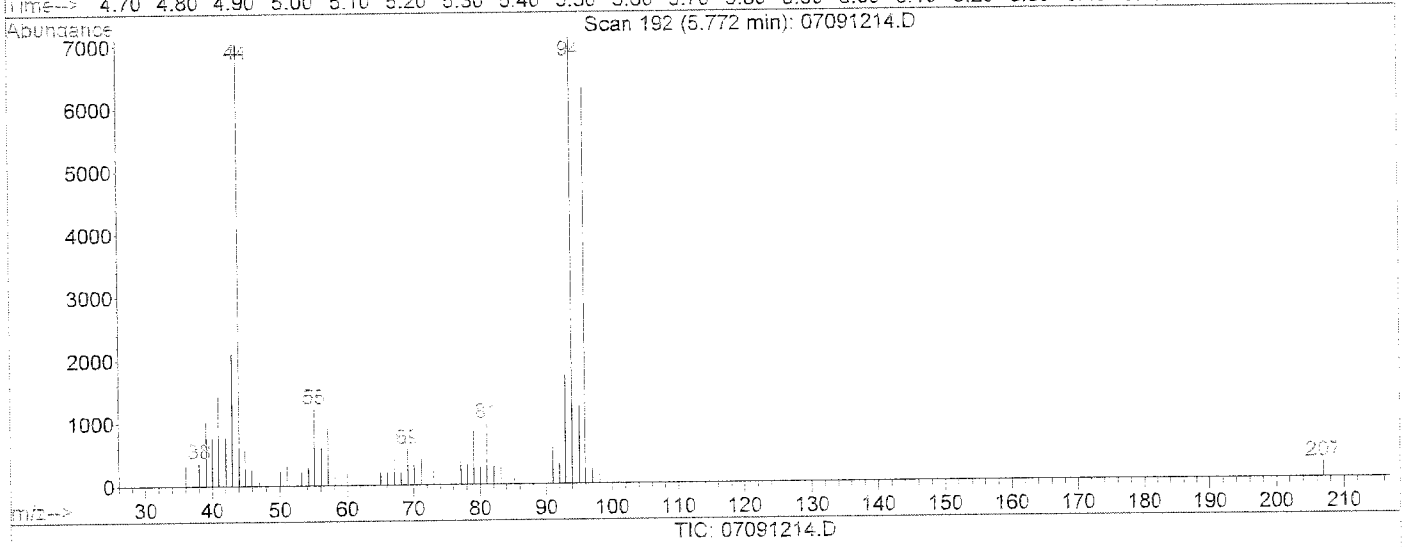
A
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(9) Bromomethane (T)

5.77min 5.19ug/L

response 16391

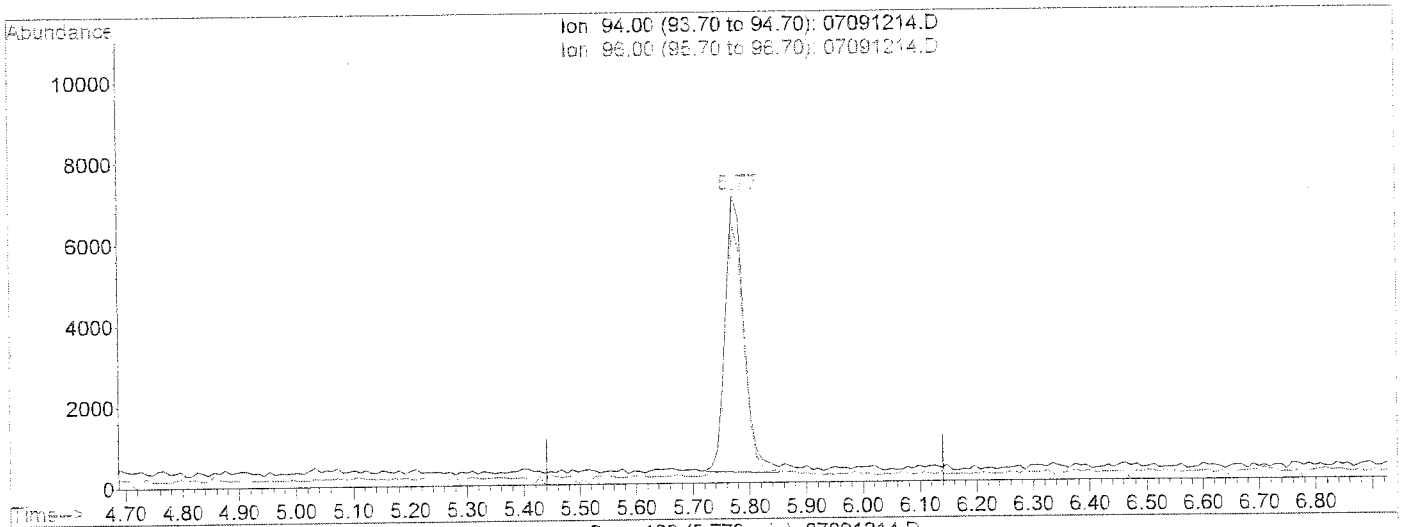
Ion	Exp%	Act%
94.00	100	100
96.00	93.60	89.28
0.00	0.00	0.00
0.00	0.00	0.00

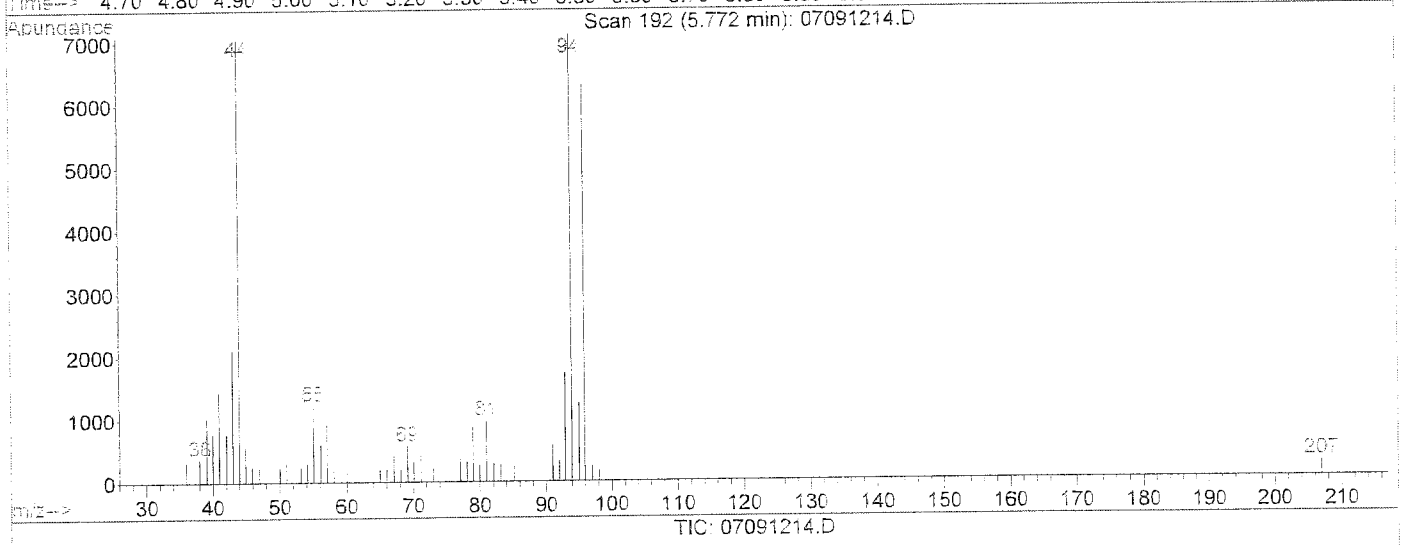
A B BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(9) Bromomethane (T)

5.77min 5.05ug/L m

response 15974

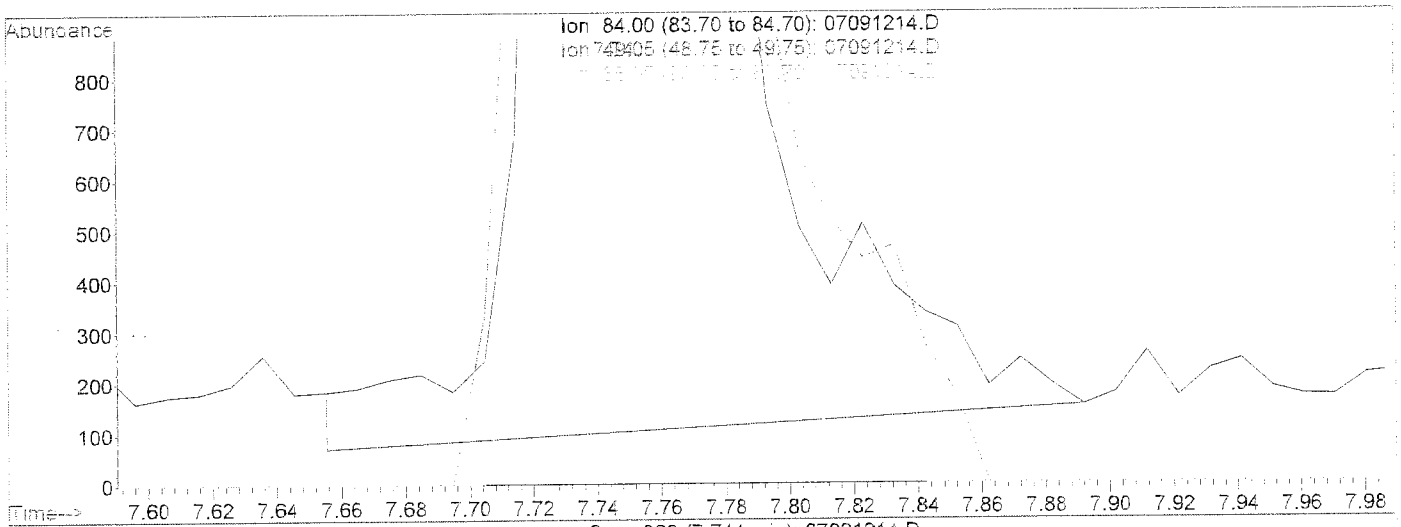
Ion	Exp%	Act%
94.00	100	100
96.00	93.60	91.61
0.00	0.00	0.00
0.00	0.00	0.00

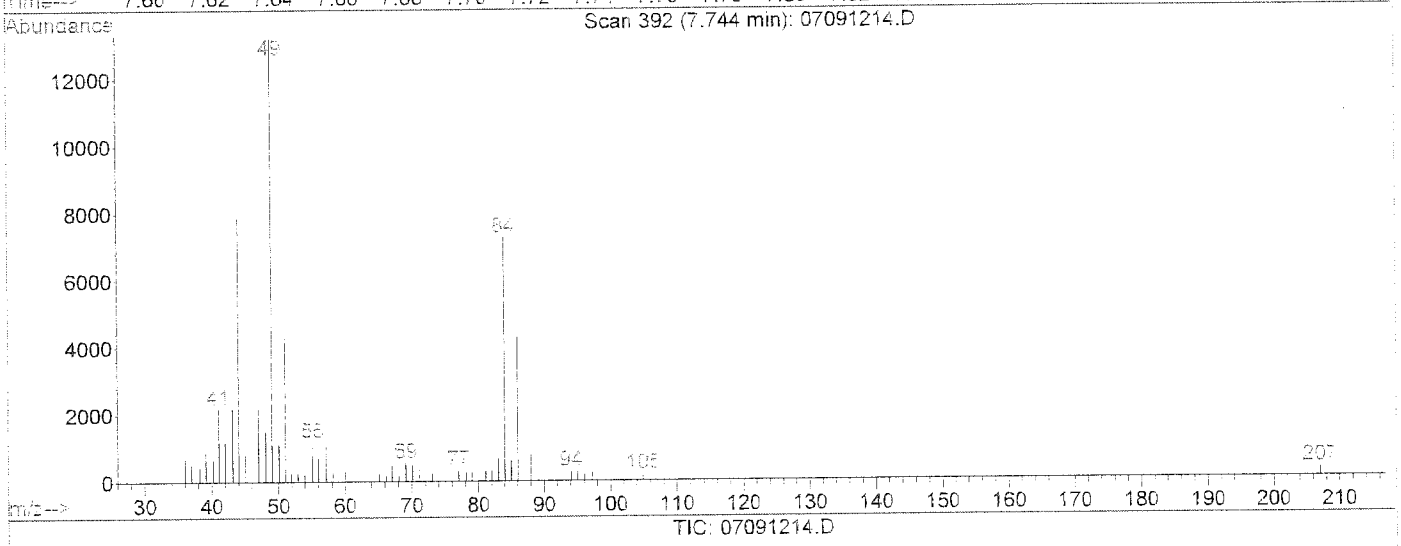
A
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(15) Methylene Chloride (T)

7.74min 4.74ug/L

response 19436

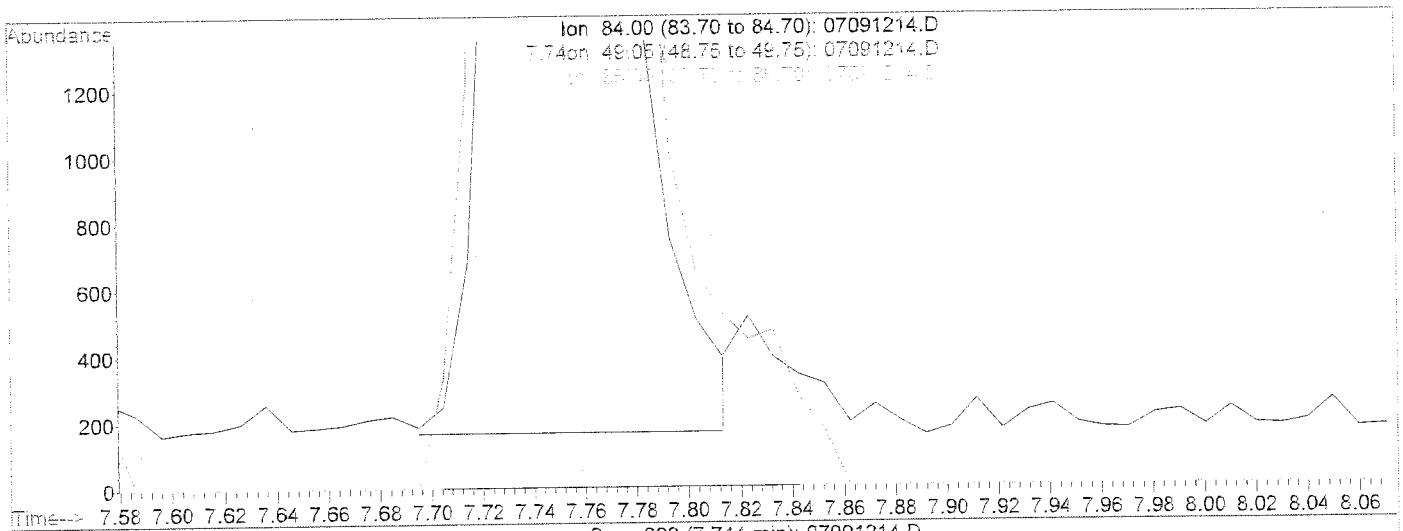
Ion	Exp%	Act%
84.00	100	100
49.05	186.20	183.58
86.00	63.30	60.67
0.00	0.00	0.00

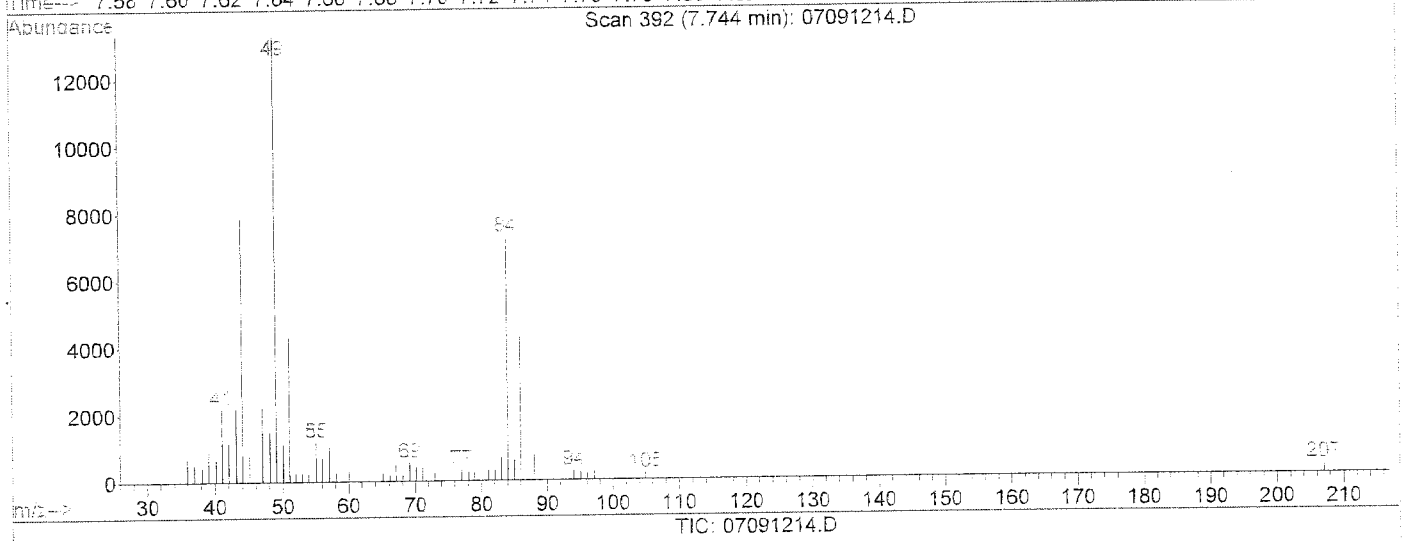
B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(15) Methylene Chloride (T)

7.74min 4.34ug/L m

response 18005

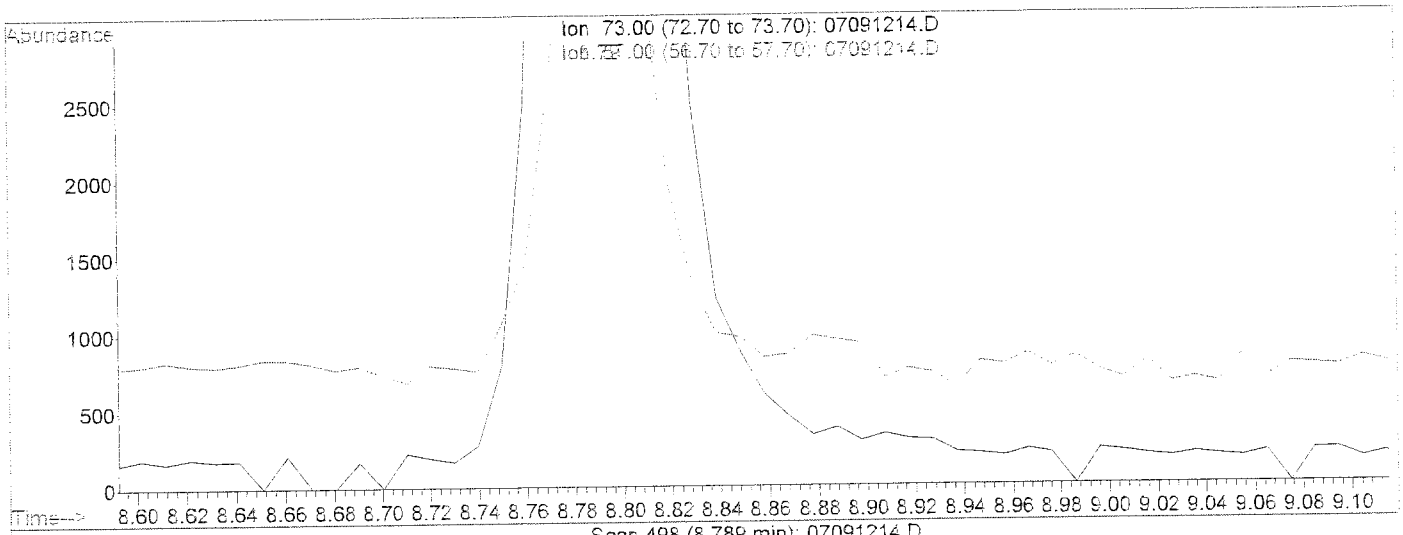
ion	Exp%	Act%
84.00	100	100
49.05	186.20	198.17
86.00	63.30	65.49
0.00	0.00	0.00

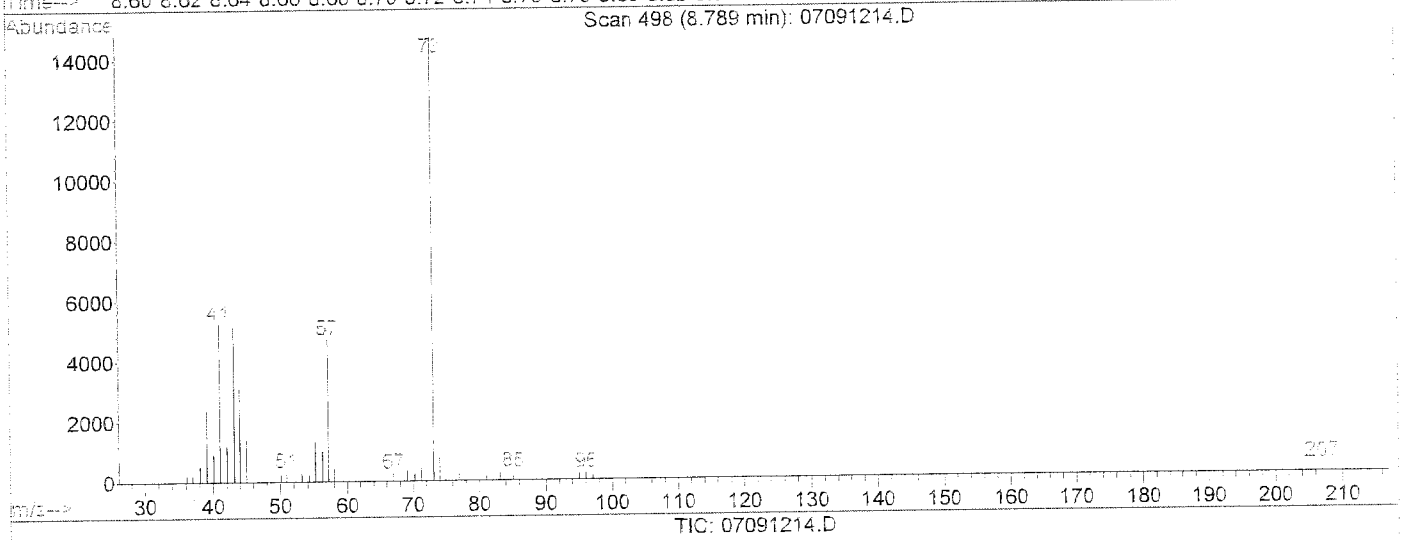
A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(19) MTBE (T)

8.79min 6.09ug/L

response 43736

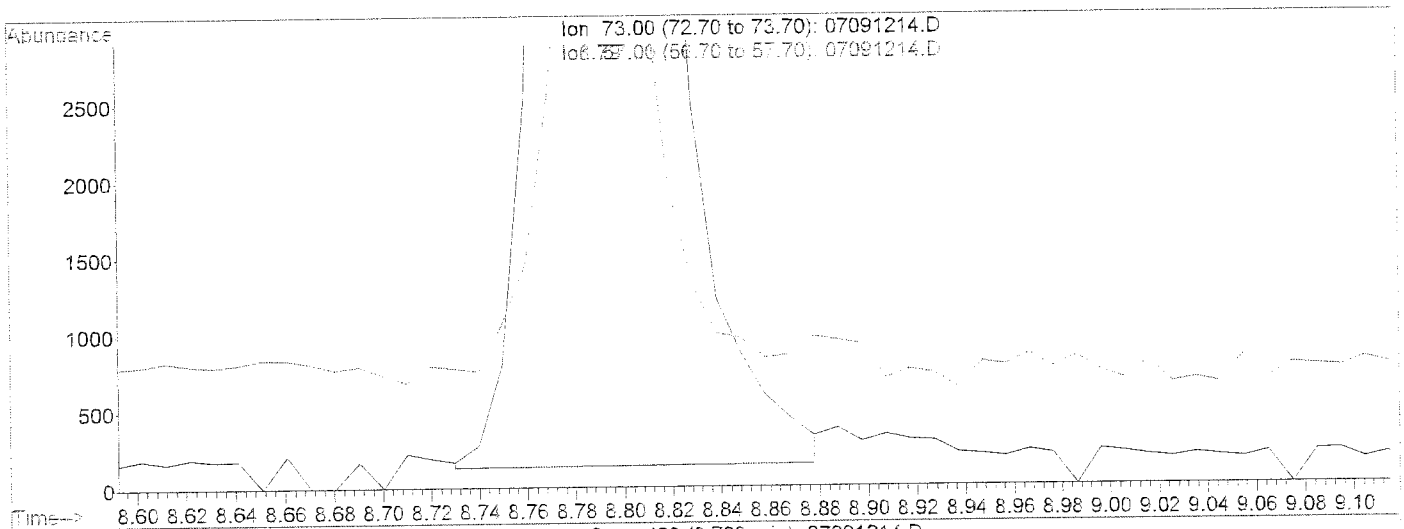
Ion	Exp%	Act%
73.00	100	100
57.00	28.10	27.19
0.00	0.00	0.00
0.00	0.00	0.00

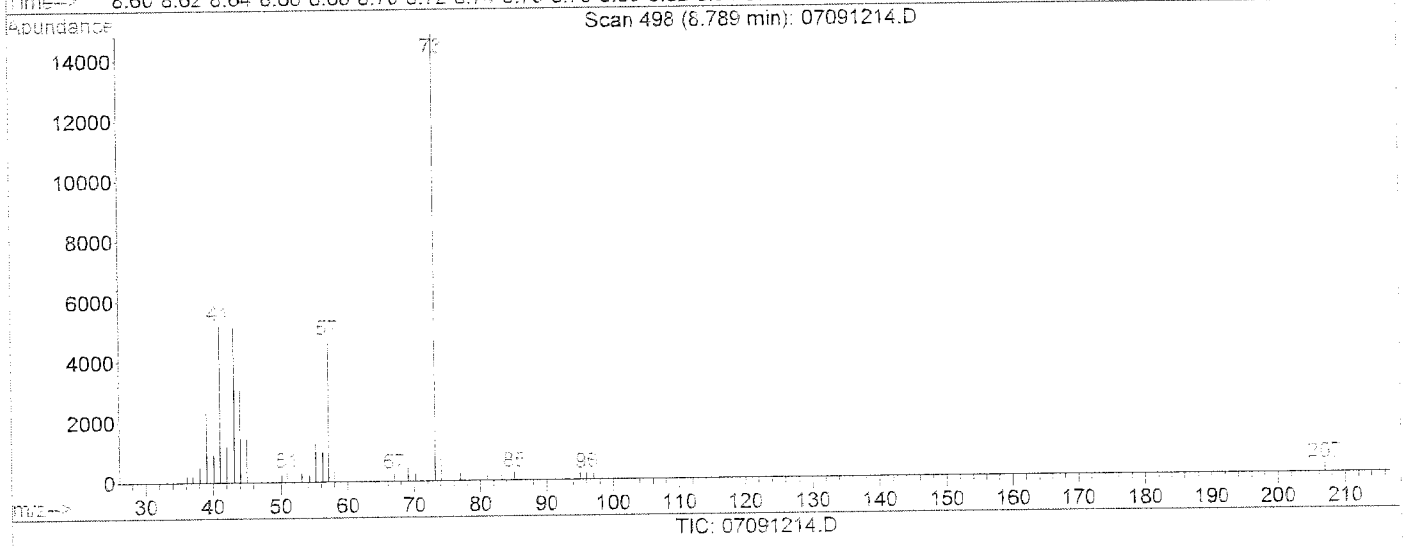
B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(19) MTBE (T)

8.79min 5.64ug/L m

response 40516

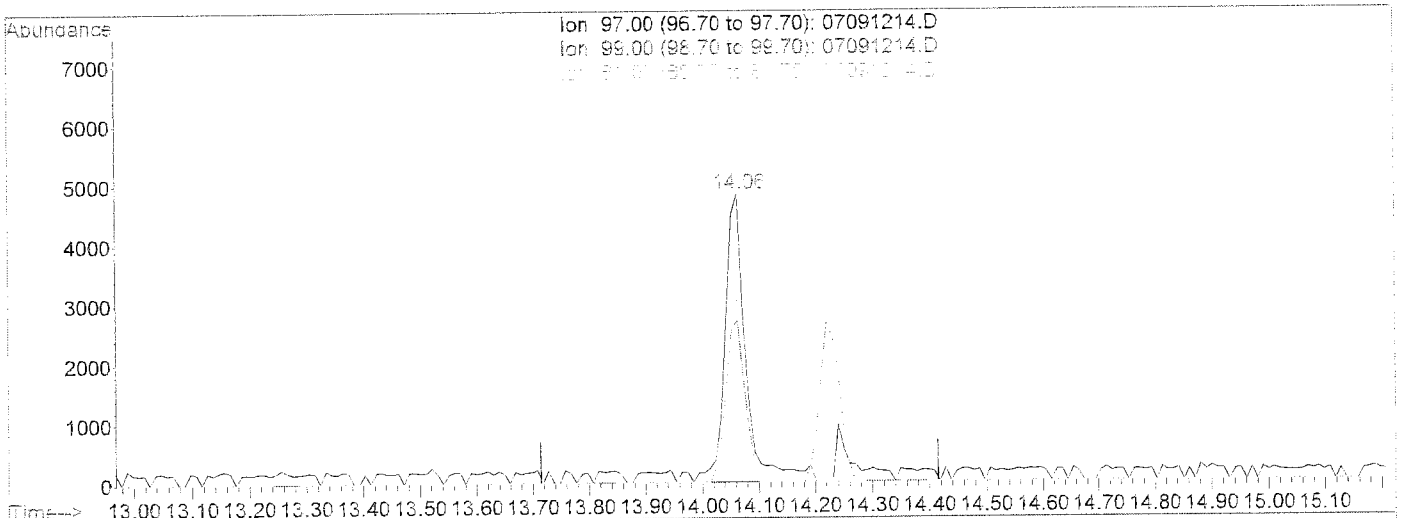
Ion	Exp%	Act%
73.00	100	100
57.00	28.10	29.36
0.00	0.00	0.00
0.00	0.00	0.00

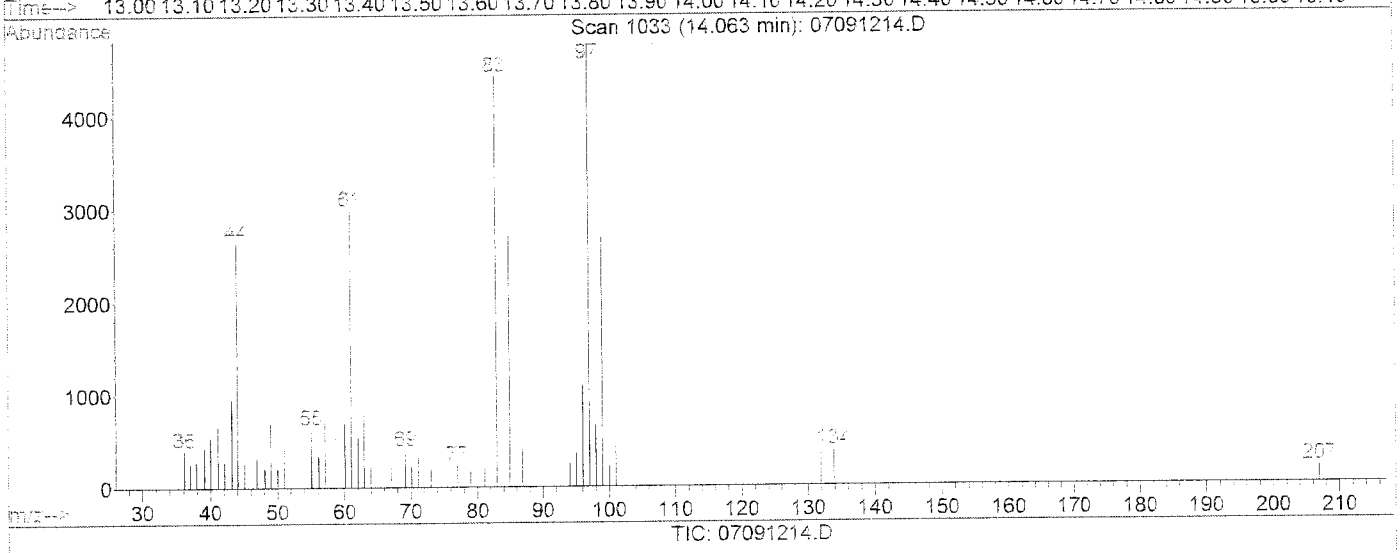
A
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(47) 1,1,2-Trichloroethane (T)

14.06min 5.72ug/L

response 12362

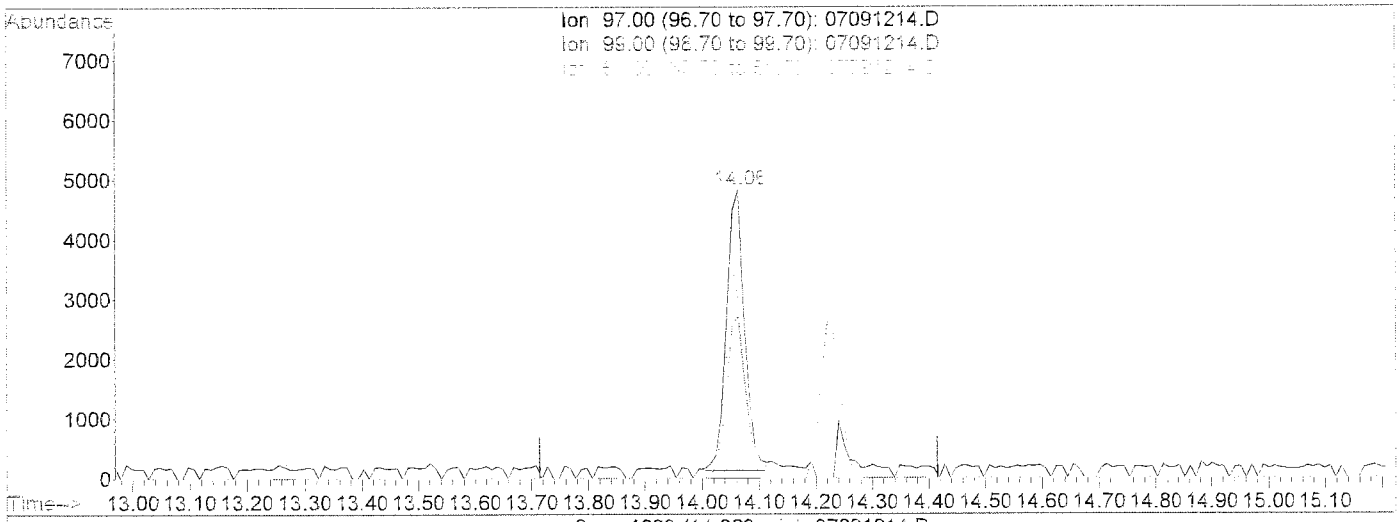
Ion	Exp%	Act%
97.00	100	100
99.00	61.10	51.65
61.05	71.30	63.03
0.00	0.00	0.00

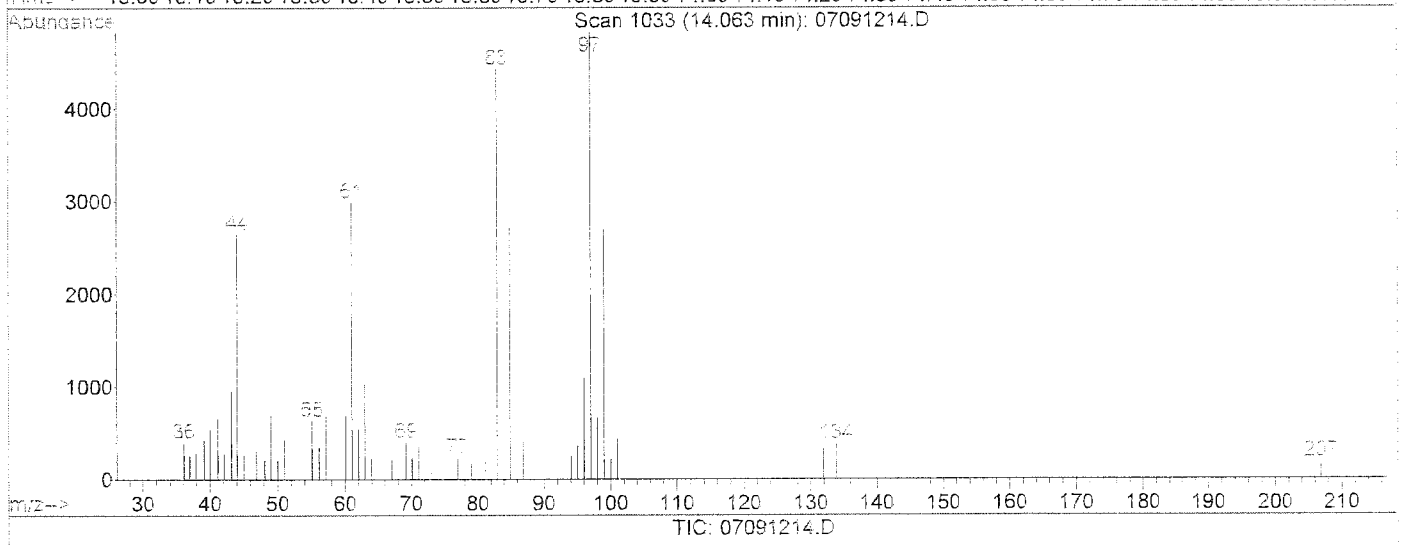
B
BL
mm 7/11/12
Chill

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091214.D

(47) 1,1,2-Trichloroethane (T)

14.06min 4.74ug/L m

response 10324

Ion	Exp%	Act%
97.00	100	100
99.00	61.10	61.85
61.05	71.30	75.47
0.00	0.00	0.00

A

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:21 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	66744	200.00 ug/L	0.00
4) Pentafluorobenzene	10.67	168	149369	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	258584	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	190441	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	71155	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	13078	5.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.00%	
48) Toluene-d8	14.22	98	61152	5.14 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 20.56%	
62) 4-Bromofluorobenzene	17.88	95	18581	5.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.04%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.57	59	10816	25.27 ug/L	97
5) Dichlorodifluoromethane	4.58	85	23926m	5.39 ug/L	
6) Chloromethane	4.86	50	45272	4.95 ug/L	94
7) Vinyl Chloride	5.17	62	40404	5.21 ug/L	98
8) 1,3-Butadiene	5.34	54	29540m	4.44 ug/L	
9) Bromomethane	5.77	94	15974m	5.05 ug/L	
10) Chloroethane	5.99	64	23342	5.21 ug/L #	93
11) Trichlorofluoromethane	6.82	101	18074	5.19 ug/L	99
12) Acetone	6.97	43	12711	3.77 ug/L	93
13) Iodomethane	7.62	142	20437	4.52 ug/L	99
14) 1,1-Dichloroethene	7.56	96	20346	5.04 ug/L	93
15) Methylene Chloride	7.74	84	18005m	4.34 ug/L	
16) Freon 113	7.82	101	18035	5.11 ug/L	97
17) Carbon disulfide	8.09	76	76369	4.85 ug/L #	53
18) trans-1,2-Dichloroethene	8.65	96	21982	5.49 ug/L	97
19) MTBE	8.79	73	40516m	5.64 ug/L	
20) 1,1-Dichloroethane	8.99	63	45988	5.35 ug/L	100
21) Vinyl Acetate	9.14	43	46289	4.94 ug/L	99
22) n-Hexane	9.50	86	8247	6.15 ug/L	87
23) 2-Butanone (MEK)	9.54	72	2336	4.88 ug/L #	98
24) Diisopropyl Ether (DIPE)	9.54	45	103133	5.54 ug/L	95
25) cis-1,2-Dichloroethene	9.74	96	20658	5.42 ug/L	96
26) Bromochloromethane	9.95	128	6415	4.68 ug/L	93
27) Chloroform	10.00	83	28766	5.24 ug/L	92
28) 2,2-Dichloropropane	10.12	77	23991	6.39 ug/L	90
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	66539	5.86 ug/L	98
31) Tetrahydrofuran	10.45	72	2112	5.03 ug/L #	88
32) 1,2-Dichloroethane	10.86	62	17841	5.21 ug/L	97
33) 1,1,1-Trichloroethane	11.00	97	20607	5.09 ug/L	95
34) (TAME) tert-Amyl methyl et	11.71	73	48208	5.91 ug/L	99
36) 1,1-Dichloropropene	11.23	75	33867	5.21 ug/L	98
37) Carbon Tetrachloride	11.48	117	15510	4.86 ug/L	95
38) Benzene	11.53	78	89478	5.10 ug/L	98
39) Dibromomethane	12.26	93	7516	4.68 ug/L	91
40) 1,2-Dichloropropane	12.31	63	23933	5.08 ug/L	96

(#) = qualifier out of range (m) = manual integration
07091214.D 062612.M Mon Jul 09 16:21:48 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:21 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

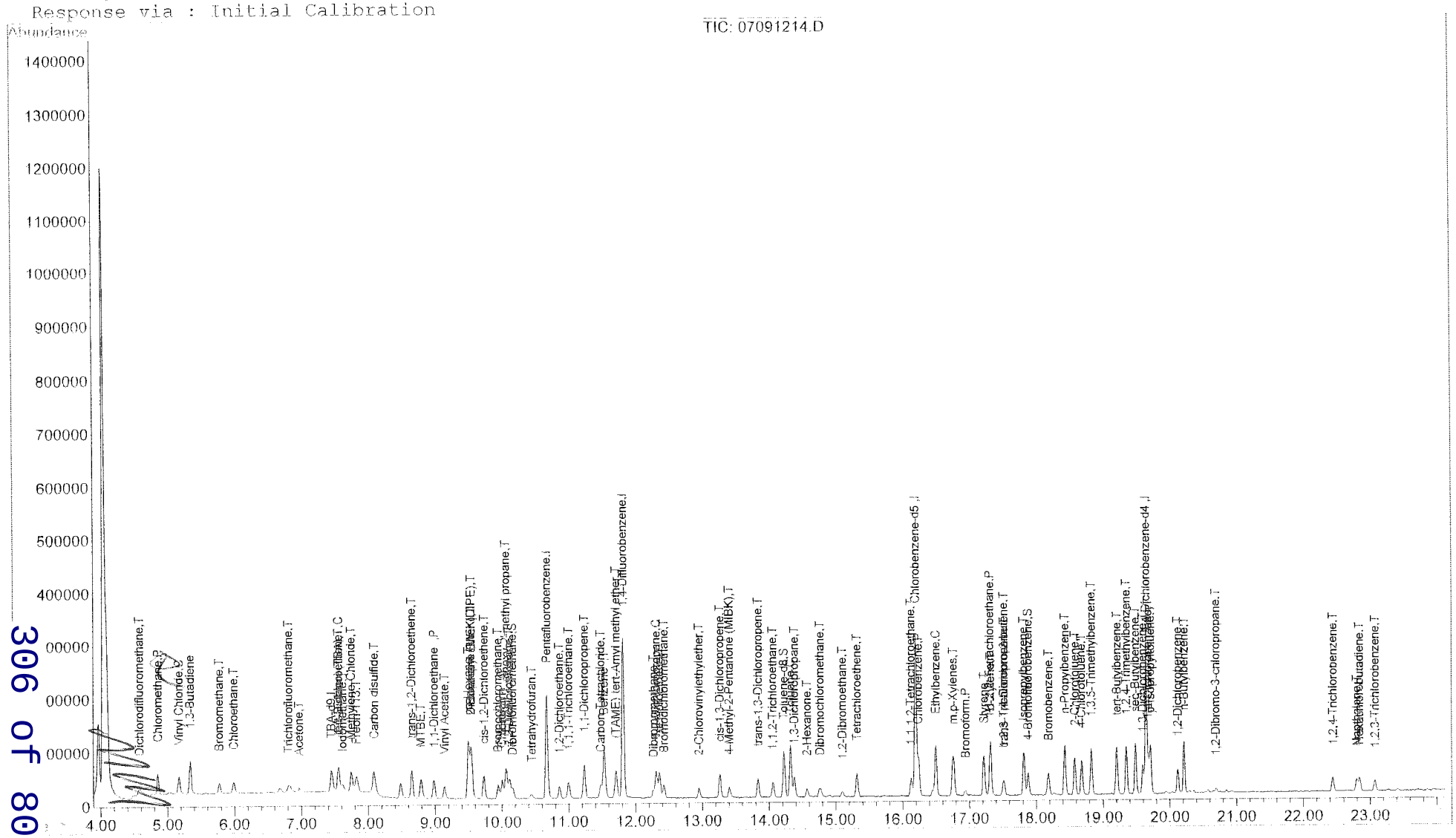
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	18921	5.32 ug/L	94
42) Bromodichloromethane	12.43	83	18875	4.92 ug/L	90
43) 2-Chlorovinylethylether	12.95	63	8555	4.56 ug/L	96
44) cis-1,3-Dichloropropene	13.26	75	29449	5.03 ug/L	90
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	20471	4.71 ug/L	98
46) trans-1,3-Dichloropropene	13.84	75	21941	4.93 ug/L #	90
47) 1,1,2-Trichloroethane	14.06	97	10324m	4.74 ug/L	
49) Toluene	14.32	92	47148	5.14 ug/L	99
51) 1,3-Dichloropropane	14.38	76	22914	4.82 ug/L	98
52) 2-Hexanone	14.57	43	15134	4.48 ug/L	99
53) Dibromochloromethane	14.75	129	9737	4.43 ug/L	99
54) 1,2-Dibromoethane	15.10	107	9440	4.41 ug/L	96
55) Tetrachloroethene	15.32	164	12383	4.73 ug/L	95
56) 1,1,1,2-Tetrachloroethane	16.13	131	10769	4.70 ug/L	95
57) Chlorobenzene	16.24	112	38999	4.79 ug/L	92
58) Ethylbenzene	16.50	91	84566	5.14 ug/L	97
59) m,p-Xylenes	16.75	106	29842	4.94 ug/L	95
60) Styrene	17.22	104	40649	4.75 ug/L	94
61) o-Xylene	17.32	106	26494	4.95 ug/L	95
64) Bromoform	16.94	173	5088	4.16 ug/L	98
65) 1,1,2,2-Tetrachloroethane	17.30	83	14243	4.88 ug/L	91
66) 1,2,3-Trichloropropane	17.50	110	2898	4.49 ug/L #	74
67) trans-1,4-Dichloro-2-buten	17.52	53	5119	5.49 ug/L #	91
68) Isopropylbenzene	17.82	105	66665	4.95 ug/L	98
69) Bromobenzene	18.18	156	11965	4.52 ug/L	83
70) n-Propylbenzene	18.43	91	94238	5.00 ug/L	98
71) 2-Chlorotoluene	18.58	91	49500	5.06 ug/L	98
72) 4-Chlorotoluene	18.68	91	47667	5.05 ug/L	96
73) 1,3,5-Trimethylbenzene	18.82	105	52488	5.17 ug/L	99
74) tert-Butylbenzene	19.21	119	46140	5.34 ug/L	97
75) 1,2,4-Trimethylbenzene	19.35	105	50271	5.21 ug/L	100
76) sec-Butylbenzene	19.49	105	77867	5.17 ug/L	100
77) 1,3-Dichlorobenzene	19.59	146	23831	4.91 ug/L	97
78) 1,4-Dichlorobenzene	19.68	146	22721	4.79 ug/L	97
79) p-Isopropyltoluene	19.71	119	56594	5.20 ug/L	98
80) 1,2-Dichlorobenzene	20.12	146	19722	5.12 ug/L	99
81) n-Butylbenzene	20.21	91	62080	5.25 ug/L	99
82) 1,2-Dibromo-3-chloropropan	20.69	75	1740	4.43 ug/L	92
83) 1,2,4-Trichlorobenzene	22.44	180	9515	4.54 ug/L	97
84) Napthalene	22.80	128	20126	4.48 ug/L	98
85) Hexachlorobutadiene	22.84	225	6147	4.41 ug/L	92
86) 1,2,3-Trichlorobenzene	23.07	180	7414	4.36 ug/L	98

(#) = qualifier out of range (m) = manual integration
07091214.D 062612.M Mon Jul 09 16:21:48 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:21 2012 Quant Results File: 062612.RES

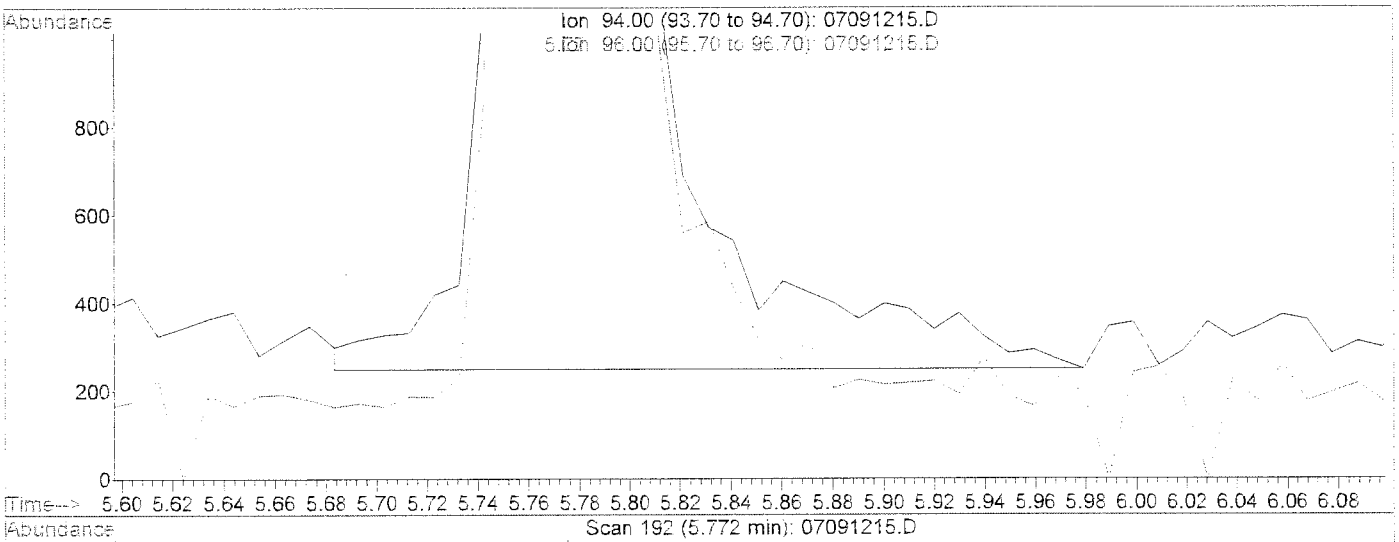
Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

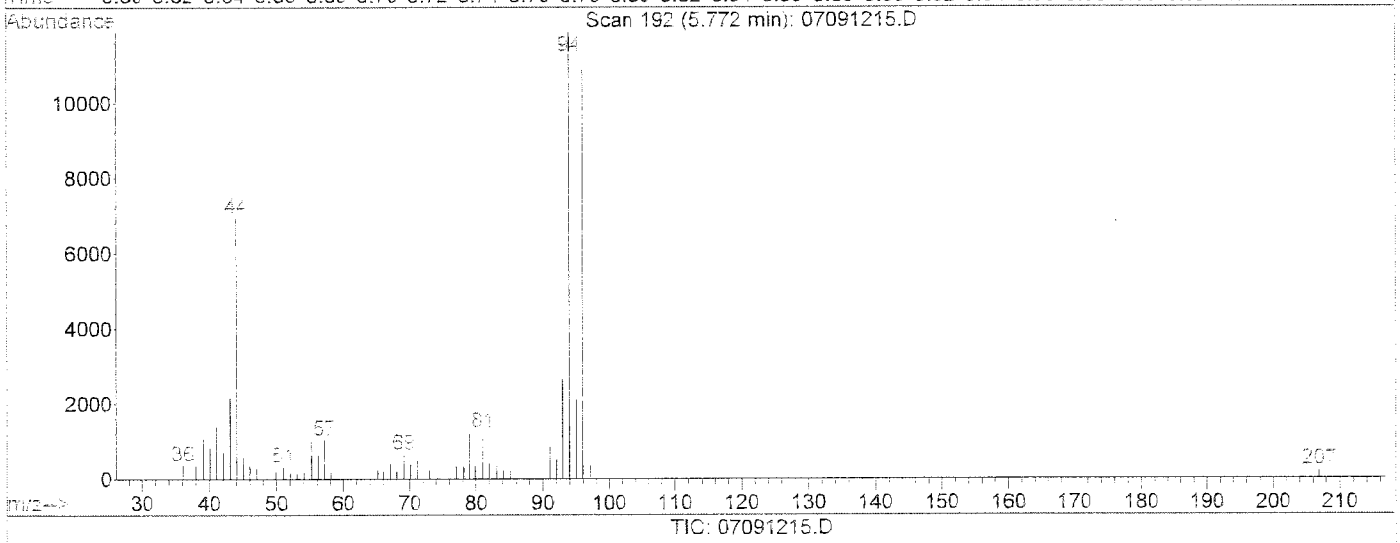


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





TIC: 07091215.D

(9) Bromomethane (T)

5.77min 9.51ug/L

response 27863

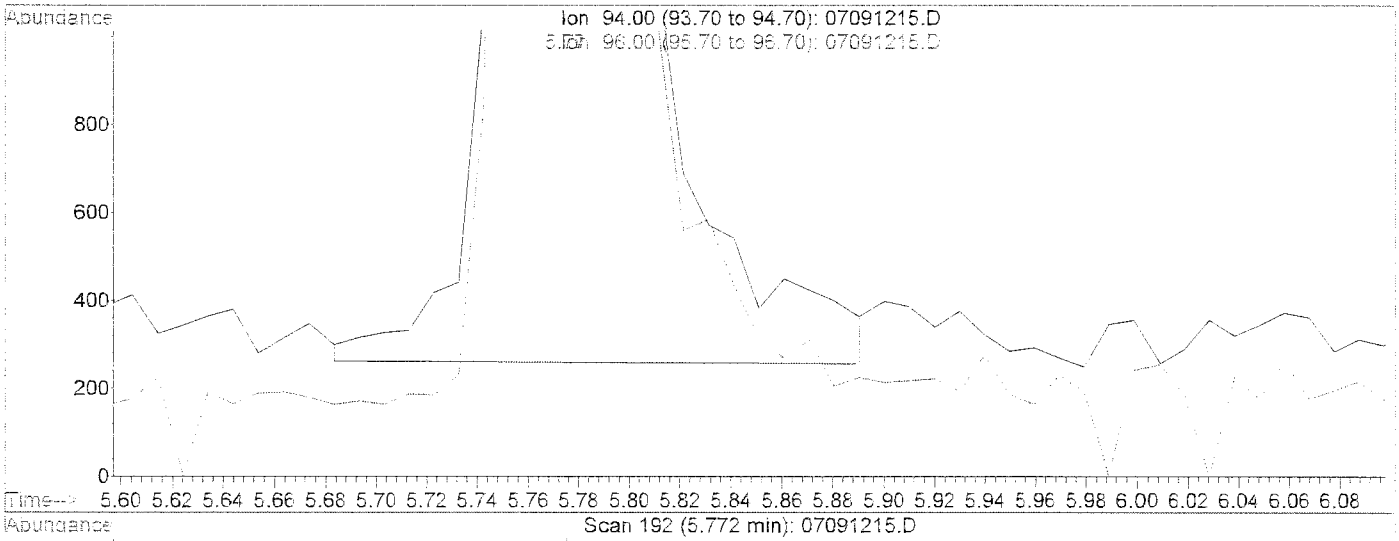
Ion	Exp%	Act%
94.00	100	100
96.00	93.60	91.34
0.00	0.00	0.00
0.00	0.00	0.00

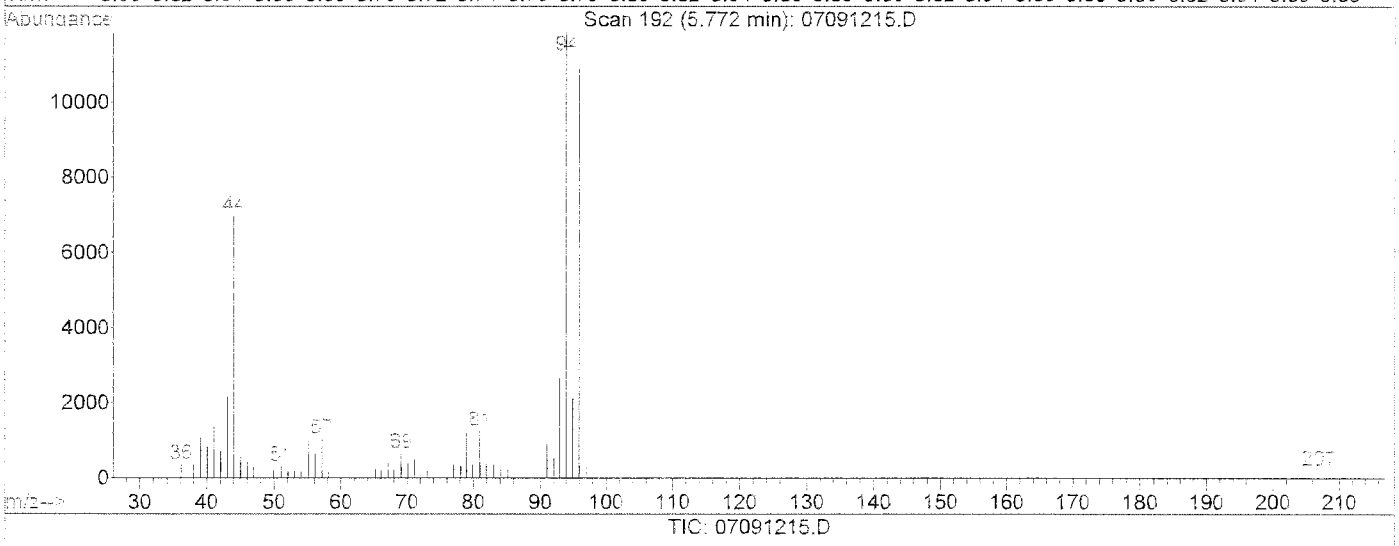
B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(9) Bromomethane (T)

5.77min 9.33ug/L m

response 27336

Ion	Exp%	Act%
94.00	100	100
96.00	93.60	93.10
0.00	0.00	0.00
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:27 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	72976	200.00 ug/L	0.00
4) Pentafluorobenzene	10.67	168	138454	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	241405	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	178298	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	67331	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	24601	10.14 ug/L	0.00
Spiked Amount 25.000			Recovery =	40.56%	
48) Toluene-d8	14.22	98	111161	10.00 ug/L	-0.01
Spiked Amount 25.000			Recovery =	40.00%	
62) 4-Bromofluorobenzene	17.88	95	33407	10.09 ug/L	0.00
Spiked Amount 25.000			Recovery =	40.36%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	6013	98.86 ug/L	85
3) tert-Butanol (TBA)	7.57	59	21180	45.25 ug/L	98
5) Dichlorodifluoromethane	4.58	85	41141	9.99 ug/L	98
6) Chloromethane	4.86	50	76454	9.01 ug/L	95
7) Vinyl Chloride	5.17	62	66412	9.23 ug/L	97
8) 1,3-Butadiene	5.34	54	51541	9.36 ug/L	98
9) Bromomethane	5.77	94	27336m	9.33 ug/L	
10) Chloroethane	5.99	64	38449	9.26 ug/L	96
11) Trichlorofluoromethane	6.82	101	30564	9.46 ug/L	100
12) Acetone	6.96	43	21237	8.97 ug/L	99
13) Iodomethane	7.62	142	34427	8.21 ug/L	98
14) 1,1-Dichloroethene	7.56	96	30505	8.42 ug/L	95
15) Methylene Chloride	7.74	84	33662	9.55 ug/L	95
16) Freon 113	7.82	101	29317	8.95 ug/L	99
17) Carbon disulfide	8.08	76	127190	8.72 ug/L #	73
18) trans-1,2-Dichloroethene	8.65	96	35886	10.05 ug/L	99
19) MTBE	8.79	73	72920	10.96 ug/L	99
20) 1,1-Dichloroethane	8.99	63	76763	9.99 ug/L	99
21) Vinyl Acetate	9.14	43	81948	9.44 ug/L	100
22) n-Hexane	9.50	86	12119	9.76 ug/L	96
23) 2-Butanone (MEK)	9.54	72	4346	9.79 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.54	45	173637	10.05 ug/L #	61
25) cis-1,2-Dichloroethene	9.74	96	33717	9.91 ug/L	98
26) Bromochloromethane	9.95	128	11398	9.22 ug/L	93
27) Chloroform	10.00	83	47954	9.75 ug/L	96
28) 2,2-Dichloropropane	10.12	77	43311	13.05 ug/L	95
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	113743	10.81 ug/L	98
31) Tetrahydrofuran	10.44	72	3688	10.12 ug/L	90
32) 1,2-Dichloroethane	10.86	62	31681	10.25 ug/L	96
33) 1,1,1-Trichloroethane	11.00	97	34415	9.75 ug/L	96
34) (TAME) tert-Amyl methyl et	11.71	73	82048	10.85 ug/L	99
36) 1,1-Dichloropropene	11.23	75	57113	9.82 ug/L	97
37) Carbon Tetrachloride	11.48	117	26502	9.31 ug/L	98
38) Benzene	11.53	78	148304	9.39 ug/L	98
39) Dibromomethane	12.27	93	12651	8.67 ug/L	94
40) 1,2-Dichloropropane	12.31	63	39791	9.37 ug/L	96

(#) = qualifier out of range (m) = manual integration
07091215.D 062612.M Mon Jul 09 16:27:50 2012

7/11/12

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:27 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	31365	9.80 ug/L	94
42) Bromodichloromethane	12.43	83	33518	9.58 ug/L	98
43) 2-Chlorovinylethylether	12.95	63	15393	8.78 ug/L	98
44) cis-1,3-Dichloropropene	13.26	75	50522	9.46 ug/L	91
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	40075	10.24 ug/L	99
46) trans-1,3-Dichloropropene	13.84	75	38391	9.43 ug/L	93
47) 1,1,2-Trichloroethane	14.06	97	18935	9.50 ug/L	99
49) Toluene	14.32	92	79750	9.72 ug/L	98
51) 1,3-Dichloropropane	14.38	76	40231	9.25 ug/L	100
52) 2-Hexanone	14.57	43	31025	9.82 ug/L	98
53) Dibromochloromethane	14.76	129	16790	8.32 ug/L	100
54) 1,2-Dibromoethane	15.10	107	16541	8.45 ug/L	100
55) Tetrachloroethene	15.31	164	20453	8.67 ug/L	99
56) 1,1,1,2-Tetrachloroethane	16.13	131	18132	8.71 ug/L	98
57) Chlorobenzene	16.24	112	65255	8.81 ug/L	97
58) Ethylbenzene	16.50	91	139411	9.37 ug/L	97
59) m,p-Xylenes	16.75	106	48974	9.01 ug/L	95
60) Styrene	17.22	104	70538	9.08 ug/L	97
61) o-Xylene	17.32	106	44378	9.18 ug/L	97
64) Bromoform	16.94	173	8966	7.75 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.31	83	24968	9.30 ug/L	93
66) 1,2,3-Trichloropropane	17.51	110	5135	8.85 ug/L #	82
67) trans-1,4-Dichloro-2-buten	17.52	53	8750	9.92 ug/L	94
68) Isopropylbenzene	17.82	105	108579	8.85 ug/L	98
69) Bromobenzene	18.18	156	20372	8.33 ug/L	89
70) n-Propylbenzene	18.43	91	156010	9.06 ug/L	98
71) 2-Chlorotoluene	18.58	91	83009	9.31 ug/L	97
72) 4-Chlorotoluene	18.68	91	79298	9.18 ug/L	98
73) 1,3,5-Trimethylbenzene	18.82	105	85584	9.27 ug/L	100
74) tert-Butylbenzene	19.21	119	74810	9.57 ug/L	97
75) 1,2,4-Trimethylbenzene	19.35	105	83016	9.48 ug/L	99
76) sec-Butylbenzene	19.48	105	127930	9.39 ug/L	99
77) 1,3-Dichlorobenzene	19.59	146	39769	8.95 ug/L	98
78) 1,4-Dichlorobenzene	19.68	146	39371	9.08 ug/L	98
79) p-Isopropyltoluene	19.71	119	93657	9.46 ug/L	99
80) 1,2-Dichlorobenzene	20.12	146	33849	9.71 ug/L	99
81) n-Butylbenzene	20.21	91	100945	9.40 ug/L	99
82) 1,2-Dibromo-3-chloropropan	20.69	75	3330	10.94 ug/L	91
83) 1,2,4-Trichlorobenzene	22.44	180	16834	8.88 ug/L	98
84) Napthalene	22.80	128	37589	9.53 ug/L	97
85) Hexachlorobutadiene	22.85	225	9666	7.75 ug/L	97
86) 1,2,3-Trichlorobenzene	23.07	180	13539	8.86 ug/L	98

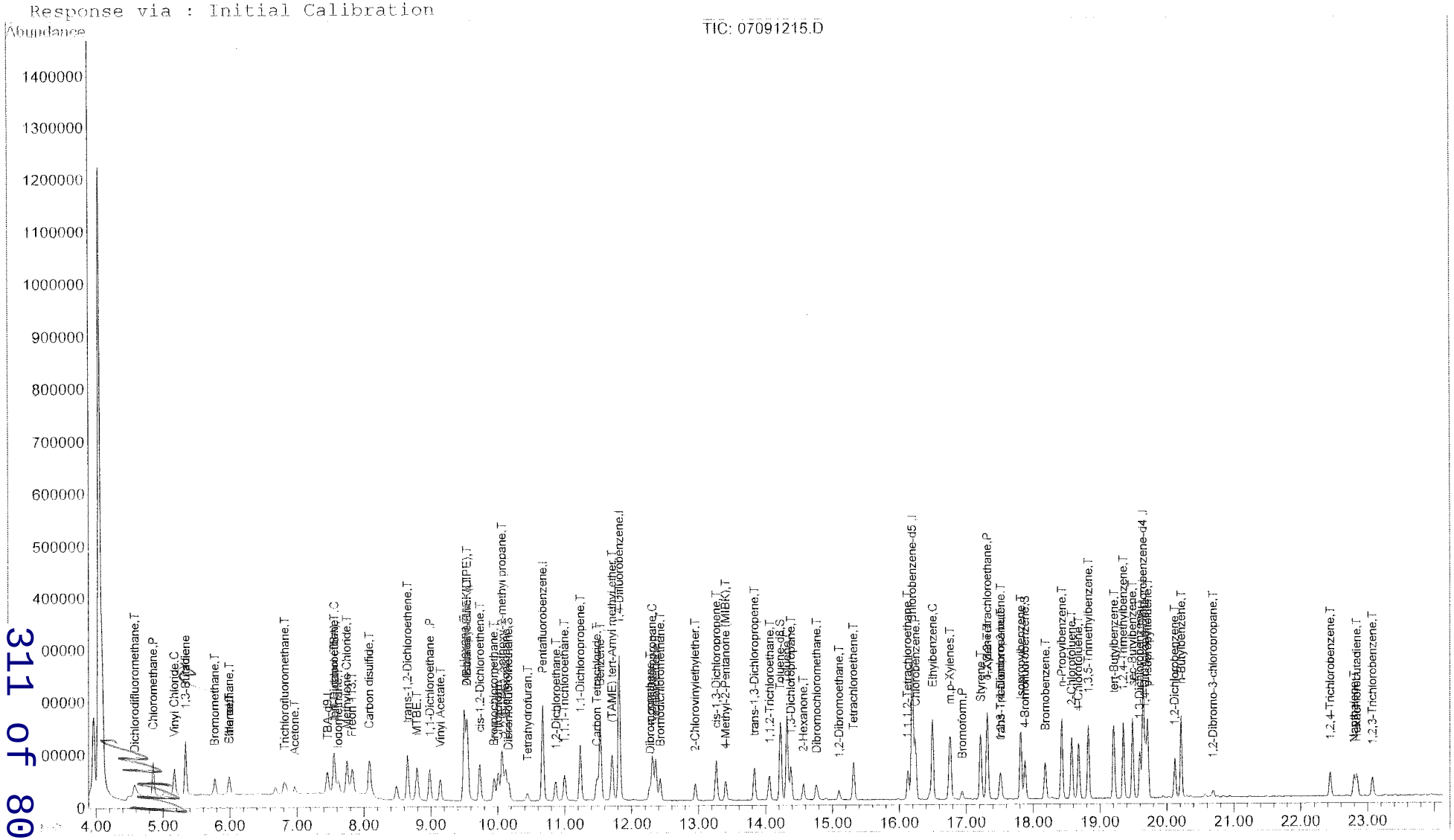
MM

(#) = qualifier out of range (m) = manual integration
07091215.D 062612.M Mon Jul 09 16:27:50 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:27 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:24 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	55705	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	132566	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	228841	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	167611	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	61145	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	59537	25.62 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 102.48%	
48) Toluene-d8	14.22	98	277599	26.35 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.40%	
62) 4-Bromofluorobenzene	17.88	95	78963	25.37 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.48%	

Target Compounds					Qvalue
2) Ethanol	5.99	45	11194	241.09 ug/L	82
3) tert-Butanol (TBA)	7.56	59	44548	124.68 ug/L	99
5) Dichlorodifluoromethane	4.58	85	114290	28.99 ug/L	100
6) Chloromethane	4.86	50	216283	26.63 ug/L	98
7) Vinyl Chloride	5.17	62	189151	27.46 ug/L	100
8) 1,3-Butadiene	5.34	54	140816	28.80 ug/L	96
9) Bromomethane	5.78	94	74877	26.70 ug/L	97
10) Chloroethane	5.98	64	106228	26.71 ug/L	100
11) Trichlorofluoromethane	6.82	101	84019	27.17 ug/L	98
12) Acetone	6.97	43	45039	23.16 ug/L	93
13) Iodomethane	7.62	142	94281	23.49 ug/L	99
14) 1,1-Dichloroethene	7.55	96	82936	25.92 ug/L	92
15) Methylene Chloride	7.75	84	86924	27.08 ug/L	98
16) Freon 113	7.83	101	84782	27.04 ug/L	99
17) Carbon disulfide	8.08	76	354418	25.36 ug/L	98
18) trans-1,2-Dichloroethene	8.65	96	95231	28.76 ug/L	97
19) MTBE	8.79	73	183309	28.77 ug/L	99
20) 1,1-Dichloroethane	8.98	63	212365	29.68 ug/L	100
21) Vinyl Acetate	9.14	43	209728	25.22 ug/L	100
22) n-Hexane	9.50	86	34753	29.22 ug/L	98
23) 2-Butanone (MEK)	9.54	72	10638	25.02 ug/L #	78
24) Diisopropyl Ether (DIPE)	9.54	45	461290	27.90 ug/L	91
25) cis-1,2-Dichloroethene	9.73	96	88944	28.16 ug/L	95
26) Bromochloromethane	9.95	128	30103	25.89 ug/L	89
27) Chloroform	10.01	83	133752	29.17 ug/L	98
28) 2,2-Dichloropropane	10.11	77	112604	36.53 ug/L	93
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	294600	29.24 ug/L	94
31) Tetrahydrofuran	10.44	72	8242	24.58 ug/L	94
32) 1,2-Dichloroethane	10.86	62	84114	28.95 ug/L	97
33) 1,1,1-Trichloroethane	11.00	97	97505	30.25 ug/L	97
34) (TAME) tert-Amyl methyl et	11.71	73	208493	28.78 ug/L	98
36) 1,1-Dichloropropene	11.24	75	159249	29.85 ug/L	97
37) Carbon Tetrachloride	11.48	117	72666	27.88 ug/L	98
38) Benzene	11.53	78	407125	28.00 ug/L	98
39) Dibromomethane	12.26	93	34000	25.09 ug/L	95
40) 1,2-Dichloropropane	12.31	63	107707	27.53 ug/L	97

(#) = qualifier out of range (m) = manual integration
07091216.D 062612.M Mon Jul 09 16:26:49 2012

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:24 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.36	95	86694	29.44 ug/L	94
42)	Bromodichloromethane	12.42	83	89013	27.30 ug/L	98
43)	2-Chlorovinylethylether	12.95	63	39033	23.48 ug/L	98
44)	cis-1,3-Dichloropropene	13.27	75	136365	27.42 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	90807	24.91 ug/L	99
46)	trans-1,3-Dichloropropene	13.83	75	102066	26.82 ug/L	96
47)	1,1,2-Trichloroethane	14.06	97	47349	25.38 ug/L	95
49)	Toluene	14.32	92	217236	28.87 ug/L	99
51)	1,3-Dichloropropane	14.38	76	104502	25.99 ug/L	100
52)	2-Hexanone	14.57	43	71357	24.03 ug/L	98
53)	Dibromochloromethane	14.76	129	45185	24.16 ug/L	99
54)	1,2-Dibromoethane	15.10	107	42851	23.67 ug/L	100
55)	Tetrachloroethene	15.32	164	57313	26.67 ug/L	99
56)	1,1,1,2-Tetrachloroethane	16.13	131	49929	26.11 ug/L	98
57)	Chlorobenzene	16.25	112	178408	26.25 ug/L	98
58)	Ethylbenzene	16.49	91	380571	28.00 ug/L	98
59)	m,p-Xylenes	16.76	106	136598	27.66 ug/L	96
60)	Styrene	17.22	104	192242	26.91 ug/L	98
61)	o-Xylene	17.32	106	120662	27.30 ug/L	96
64)	Bromoform	16.94	173	24150	22.99 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.30	83	61675	25.79 ug/L	97
66)	1,2,3-Trichloropropane	17.51	110	12426	24.44 ug/L	95
67)	trans-1,4-Dichloro-2-buten	17.52	53	22184	27.69 ug/L	98
68)	Isopropylbenzene	17.81	105	300463	27.88 ug/L	99
69)	Bromobenzene	18.19	156	55594	25.54 ug/L	94
70)	n-Propylbenzene	18.42	91	429904	28.32 ug/L	99
71)	2-Chlorotoluene	18.58	91	225655	28.74 ug/L	98
72)	4-Chlorotoluene	18.68	91	216427	28.38 ug/L	97
73)	1,3,5-Trimethylbenzene	18.83	105	237459	29.36 ug/L	99
74)	tert-Butylbenzene	19.20	119	206389	30.29 ug/L	97
75)	1,2,4-Trimethylbenzene	19.35	105	226796	29.54 ug/L	99
76)	sec-Butylbenzene	19.49	105	350078	29.48 ug/L	100
77)	1,3-Dichlorobenzene	19.60	146	109191	27.85 ug/L	98
78)	1,4-Dichlorobenzene	19.69	146	105211	27.46 ug/L	99
79)	p-Isopropyltoluene	19.72	119	254655	29.49 ug/L	99
80)	1,2-Dichlorobenzene	20.12	146	88972	29.10 ug/L	99
81)	n-Butylbenzene	20.21	91	278867	29.86 ug/L	99
82)	1,2-Dibromo-3-chloropropan	20.69	75	7511	30.73 ug/L	92
83)	1,2,4-Trichlorobenzene	22.45	180	45946	28.21 ug/L	99
84)	Napthalene	22.80	128	93788	27.99 ug/L	98
85)	Hexachlorobutadiene	22.84	225	25858	24.70 ug/L	99
86)	1,2,3-Trichlorobenzene	23.08	180	35425	27.16 ug/L	99

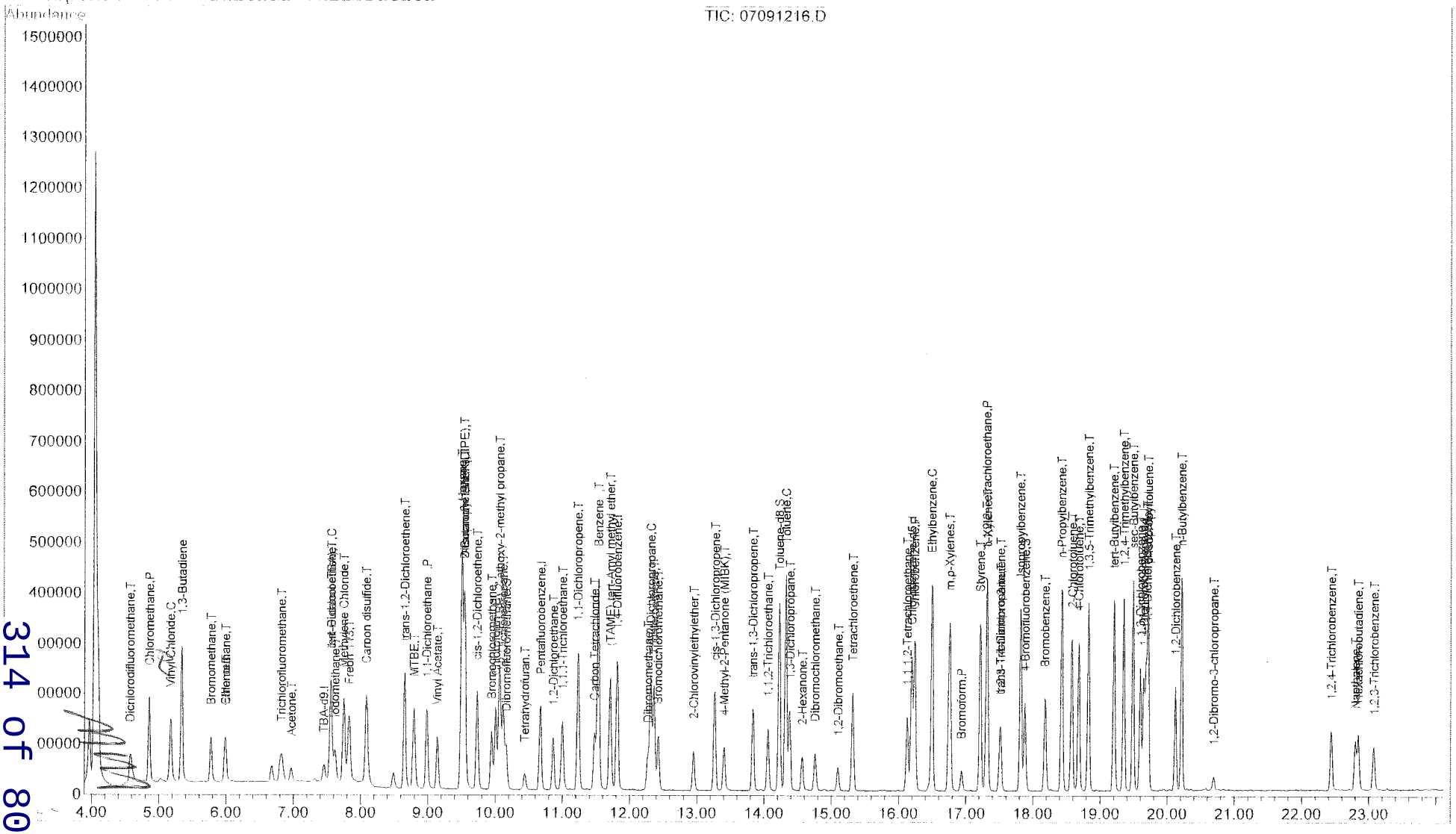
(#) = qualifier out of range (m) = manual integration
07091216.D 062612.M Mon Jul 09 16:26:49 2012

MM

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:24 2012 Quant Results File: 062612.RES

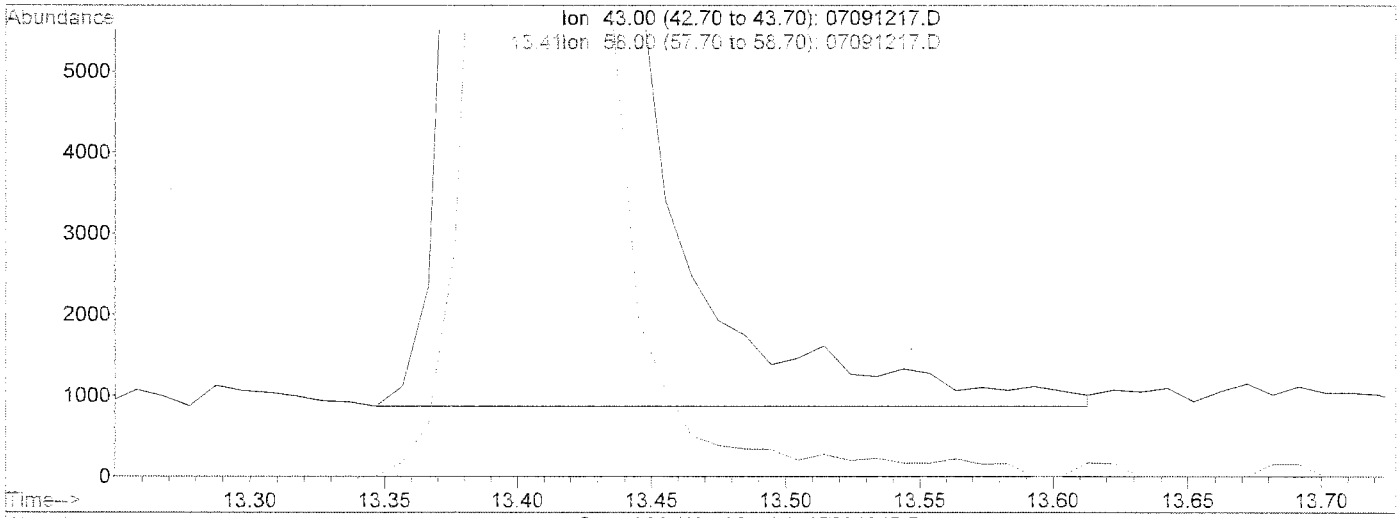
Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration

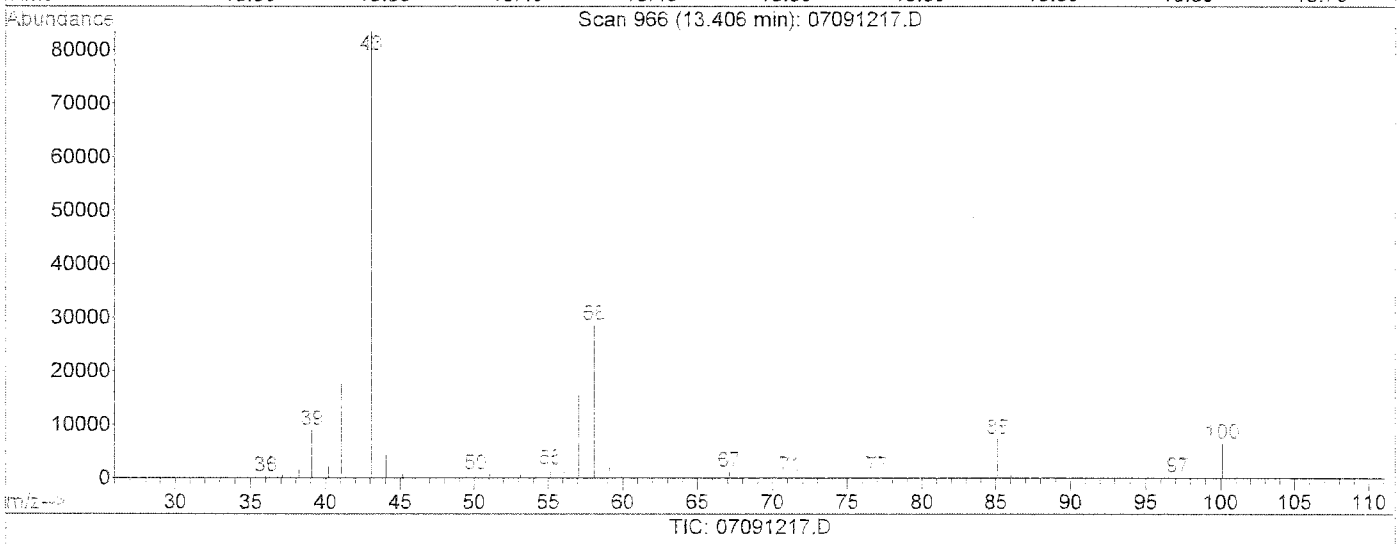


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:29 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(45) 4-Methyl-2-Pentanone (MIBK) (T)

13.41min 47.22ug/L

response 191969

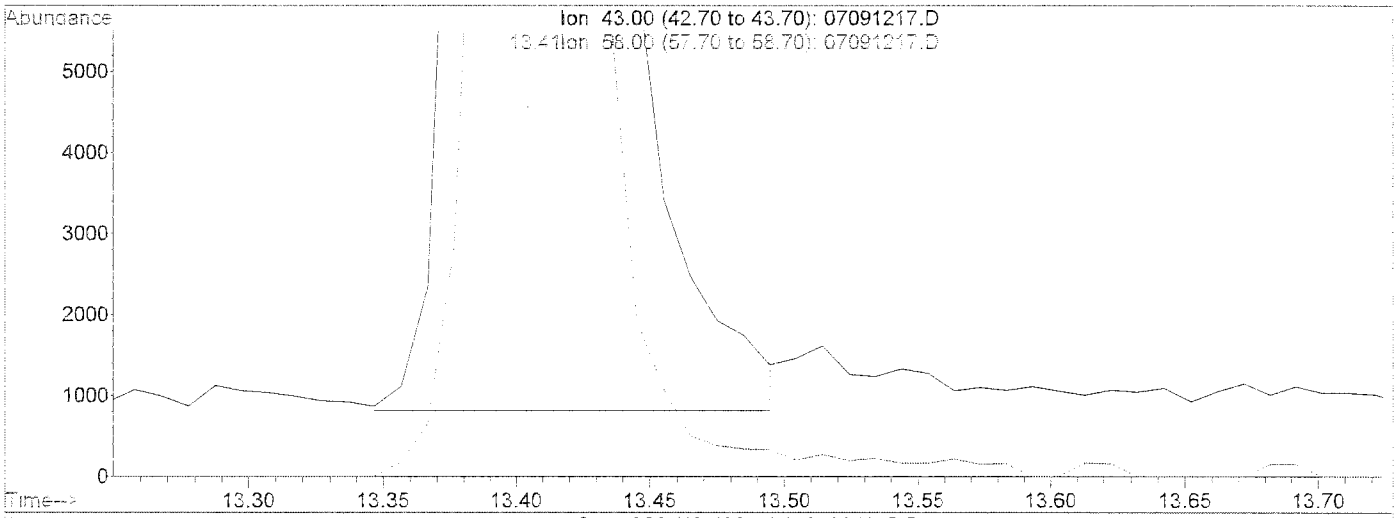
Ion	Exp%	Act%
43.00	100	100
58.00	35.30	34.46
0.00	0.00	0.00
0.00	0.00	0.00

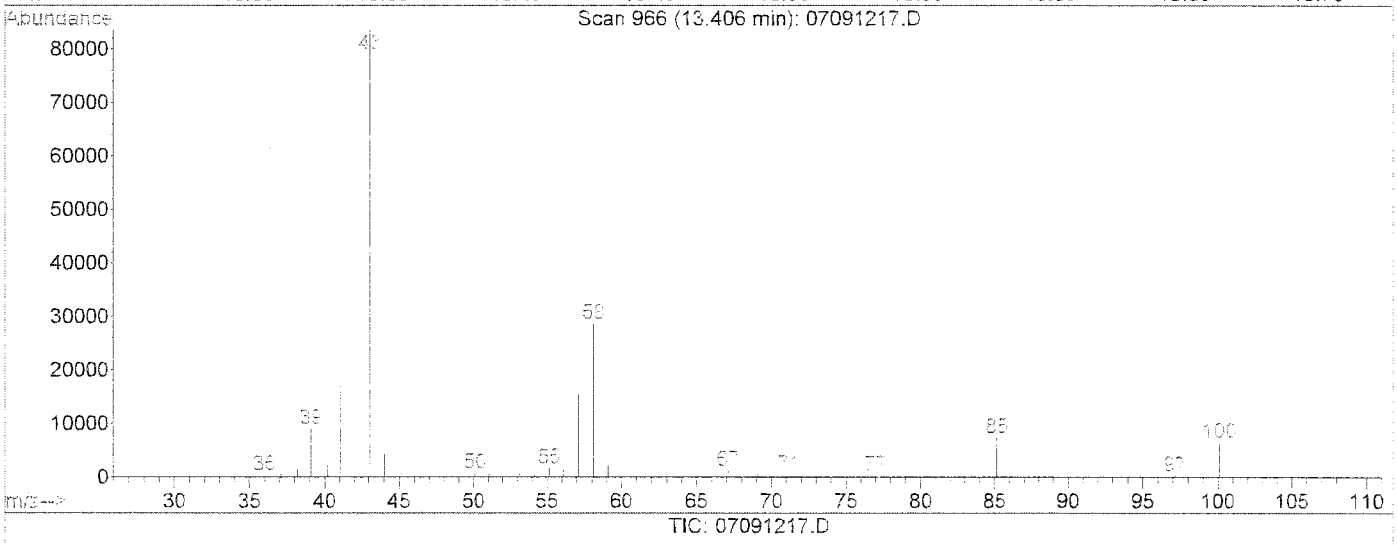
B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Multiple Level Calibration





(45) 4-Methyl-2-Pentanone (MIBK) (T)

13.41min 46.71ug/L m

response 189934

Ion	Exp%	Act%
43.00	100	100
58.00	35.30	34.83
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	67282	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	148658	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.82	114	256789	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	184456	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	68118	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	103089	39.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 158.24%	
48) Toluene-d8	14.22	98	453876	38.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 153.56%	
62) 4-Bromofluorobenzene	17.88	95	133706	39.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 156.16%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	25326	451.60 ug/L	99
3) tert-Butanol (TBA)	7.57	59	95029	220.21 ug/L	99
5) Dichlorodifluoromethane	4.57	85	209917	47.47 ug/L	100
6) Chloromethane	4.86	50	395265	43.39 ug/L	98
7) Vinyl Chloride	5.18	62	337798	43.74 ug/L	100
8) 1,3-Butadiene	5.34	54	250220	46.30 ug/L	94
9) Bromomethane	5.78	94	137621	43.76 ug/L	99
10) Chloroethane	5.99	64	191636	42.96 ug/L	99
11) Trichlorofluoromethane	6.82	101	155949	44.97 ug/L	99
12) Acetone	6.97	43	97316	47.13 ug/L	97
13) Iodomethane	7.62	142	175060	38.89 ug/L	100
14) 1,1-Dichloroethene	7.56	96	149837	44.95 ug/L	91
15) Methylene Chloride	7.75	84	161888	45.49 ug/L	99
16) Freon 113	7.83	101	152831	43.47 ug/L	99
17) Carbon disulfide	8.08	76	644686	41.14 ug/L	97
18) trans-1,2-Dichloroethene	8.65	96	176142	47.77 ug/L	98
19) MTBE	8.79	73	366897	51.35 ug/L	99
20) 1,1-Dichloroethane	8.99	63	393342	49.31 ug/L	100
21) Vinyl Acetate	9.15	43	420649	45.12 ug/L	99
22) n-Hexane	9.50	86	63145	47.34 ug/L	100
23) 2-Butanone (MEK)	9.54	72	22384	46.94 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.54	45	883689	47.65 ug/L #	61
25) cis-1,2-Dichloroethene	9.74	96	164351	46.72 ug/L	96
26) Bromochloromethane	9.95	128	56800	43.75 ug/L	93
27) Chloroform	10.00	83	249456	48.79 ug/L	97
28) 2,2-Dichloropropane	10.12	77	193900	56.43 ug/L	90
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	580123	51.35 ug/L	98
31) Tetrahydrofuran	10.44	72	17240	46.47 ug/L	94
32) 1,2-Dichloroethane	10.86	62	161134	49.66 ug/L	98
33) 1,1,1-Trichloroethane	11.00	97	174177	48.61 ug/L	97
34) (TAME) tert-Amyl methyl et	11.71	73	412562	50.79 ug/L	99
36) 1,1-Dichloropropene	11.24	75	291316	48.98 ug/L	97
37) Carbon Tetrachloride	11.48	117	135064	46.51 ug/L	99
38) Benzene	11.53	78	756753	46.66 ug/L	98
39) Dibromomethane	12.27	93	65568	43.33 ug/L	98
40) 1,2-Dichloropropane	12.31	63	201743	46.24 ug/L	96

(#) = qualifier out of range (m) = manual integration
07091217.D 062612.M Mon Jul 09 16:30:46 2012

7/12

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.36	95	155027	47.19 ug/L	98
42)	Bromodichloromethane	12.43	83	168197	46.14 ug/L	100
43)	2-Chlorovinylethylether	12.95	63	81158	43.52 ug/L	99
44)	cis-1,3-Dichloropropene	13.27	75	262609	47.26 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	189934m	46.71 ug/L	
46)	trans-1,3-Dichloropropene	13.84	75	201212	47.28 ug/L	97
47)	1,1,2-Trichloroethane	14.07	97	92243	44.20 ug/L	97
49)	Toluene	14.32	92	401473	47.86 ug/L	99
51)	1,3-Dichloropropane	14.38	76	205414	46.61 ug/L	99
52)	2-Hexanone	14.57	43	153045	46.83 ug/L	99
53)	Dibromochloromethane	14.76	129	88676	43.23 ug/L	99
54)	1,2-Dibromoethane	15.10	107	84524	42.59 ug/L	98
55)	Tetrachloroethene	15.32	164	106291	45.23 ug/L	99
56)	1,1,1,2-Tetrachloroethane	16.13	131	92986	44.41 ug/L	100
57)	Chlorobenzene	16.25	112	336456	45.21 ug/L	99
58)	Ethylbenzene	16.50	91	703411	47.31 ug/L	99
59)	m,p-Xylenes	16.76	106	253606	46.98 ug/L	97
60)	Styrene	17.22	104	357402	45.67 ug/L	97
61)	o-Xylene	17.32	106	223526	46.23 ug/L	97
64)	Bromoform	16.95	173	48292	41.27 ug/L	97
65)	1,1,2,2-Tetrachloroethane	17.31	83	119874	45.21 ug/L	99
66)	1,2,3-Trichloropropane	17.51	110	24287	43.27 ug/L	99
67)	trans-1,4-Dichloro-2-buten	17.53	53	43944	49.24 ug/L	99
68)	Isopropylbenzene	17.82	105	550047	46.11 ug/L	98
69)	Bromobenzene	18.19	156	102606	42.48 ug/L	91
70)	n-Propylbenzene	18.43	91	783176	46.58 ug/L	98
71)	2-Chlorotoluene	18.58	91	409107	47.05 ug/L	97
72)	4-Chlorotoluene	18.68	91	393709	46.59 ug/L	97
73)	1,3,5-Trimethylbenzene	18.83	105	421938	47.13 ug/L	99
74)	tert-Butylbenzene	19.21	119	357017	47.36 ug/L	97
75)	1,2,4-Trimethylbenzene	19.35	105	400567	47.13 ug/L	99
76)	sec-Butylbenzene	19.49	105	618041	47.16 ug/L	99
77)	1,3-Dichlorobenzene	19.60	146	198248	45.63 ug/L	98
78)	1,4-Dichlorobenzene	19.69	146	192701	45.39 ug/L	99
79)	p-Isopropyltoluene	19.72	119	444969	46.79 ug/L	98
80)	1,2-Dichlorobenzene	20.12	146	157275	46.48 ug/L	99
81)	n-Butylbenzene	20.22	91	486629	47.37 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.69	75	12173	46.61 ug/L	94
83)	1,2,4-Trichlorobenzene	22.45	180	72007	40.55 ug/L	99
84)	Napthalene	22.80	128	155335	42.77 ug/L	98
85)	Hexachlorobutadiene	22.84	225	41905	37.01 ug/L	99
86)	1,2,3-Trichlorobenzene	23.08	180	56604	40.02 ug/L	99

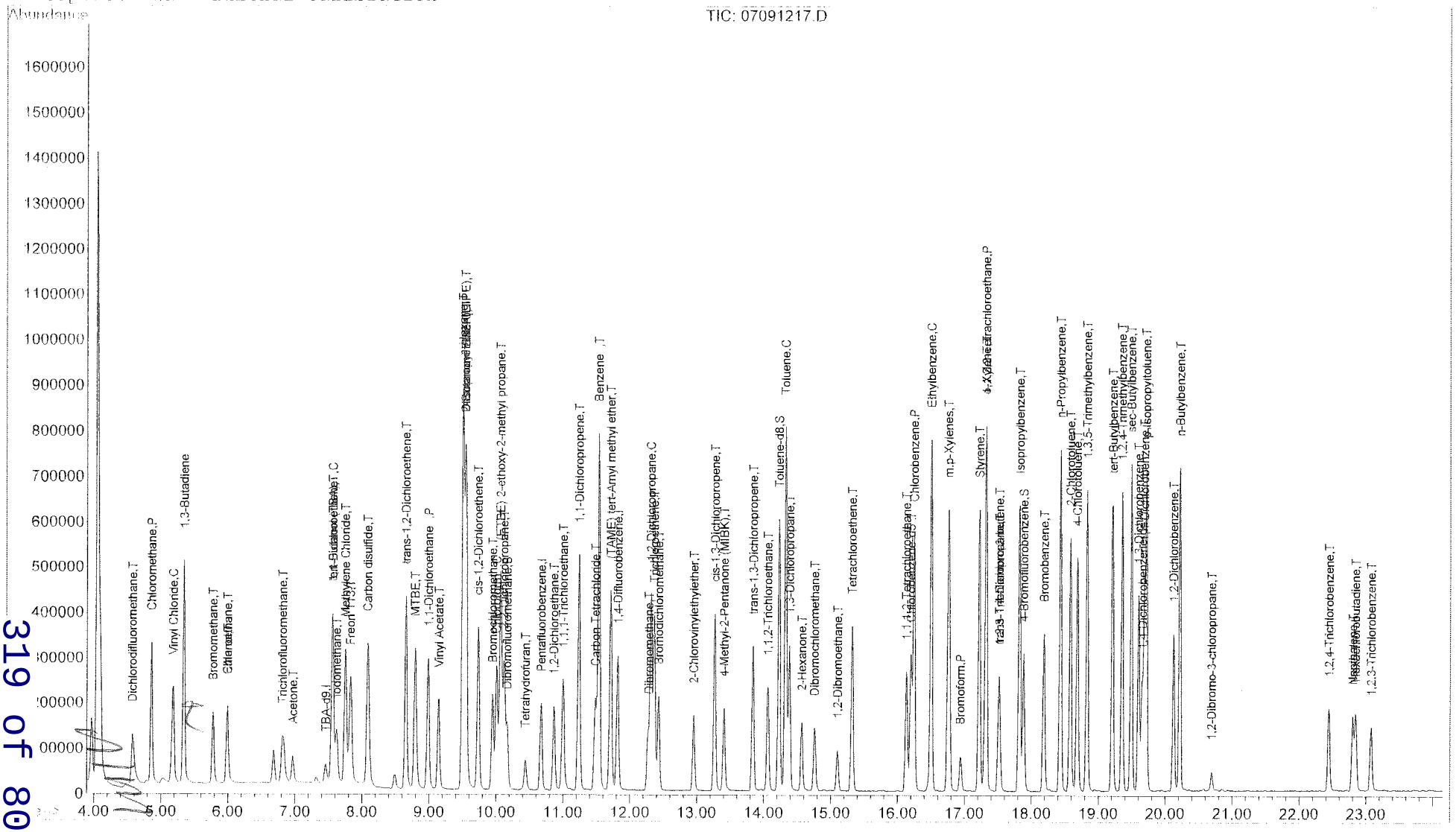
MM

(#) = qualifier out of range (m) = manual integration
07091217.D 062612.M Mon Jul 09 16:30:46 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	62055	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	128210	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	222159	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	166944	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	54801	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	224845	100.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 400.20%	
48) Toluene-d8	14.23	98	993327	97.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 388.44%	
62) 4-Bromofluorobenzene	17.89	95	278185	89.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 359.00%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	49808	962.97 ug/L	85
3) tert-Butanol (TBA)	7.58	59	185981	467.27 ug/L	98
5) Dichlorodifluoromethane	4.58	85	391017	102.54 ug/L	99
6) Chloromethane	4.86	50	777517	98.97 ug/L	100
7) Vinyl Chloride	5.18	62	630978	94.72 ug/L	100
8) 1,3-Butadiene	5.34	54	473186	102.87 ug/L	95
9) Bromomethane	5.78	94	266941	98.41 ug/L	98
10) Chloroethane	5.99	64	370952	96.43 ug/L	99
11) Trichlorofluoromethane	6.82	101	288900	96.59 ug/L	99
12) Acetone	6.96	43	200116	116.14 ug/L	96
13) Iodomethane	7.62	142	341702	88.01 ug/L	100
14) 1,1-Dichloroethene	7.56	96	285560	Below Cal	93
15) Methylene Chloride	7.75	84	321765	105.86 ug/L	98
16) Freon 113	7.83	101	282458	93.16 ug/L	98
17) Carbon disulfide	8.09	76	1244611	92.10 ug/L	95
18) trans-1,2-Dichloroethene	8.66	96	336694	106.49 ug/L	96
19) MTBE	8.80	73	762711	123.77 ug/L	99
20) 1,1-Dichloroethane	8.99	63	763121	111.47 ug/L	99
21) Vinyl Acetate	9.14	43	915533	113.85 ug/L	100
22) n-Hexane	9.51	86	117892	102.48 ug/L	99
23) 2-Butanone (MEK)	9.54	72	47064	114.45 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.55	45	1750187	109.44 ug/L #	62
25) cis-1,2-Dichloroethene	9.73	96	323999	107.42 ug/L	95
26) Bromochloromethane	9.95	128	118072	105.81 ug/L	94
27) Chloroform	10.01	83	490666	111.79 ug/L	98
28) 2,2-Dichloropropane	10.12	77	368830	125.22 ug/L	92
29) (ETBE) 2-ethoxy-2-methyl p	10.07	59	1171297	120.21 ug/L	98
31) Tetrahydrofuran	10.44	72	36723	115.84 ug/L	97
32) 1,2-Dichloroethane	10.87	62	335895	120.43 ug/L	98
33) 1,1,1-Trichloroethane	11.01	97	324857	105.95 ug/L	96
34) (TAME) tert-Amyl methyl et	11.72	73	860830	122.88 ug/L	99
36) 1,1-Dichloropropene	11.23	75	547355	106.95 ug/L	97
37) Carbon Tetrachloride	11.49	117	249048	99.70 ug/L	99
38) Benzene	11.54	78	1468107	105.16 ug/L	98
39) Dibromomethane	12.27	93	138940	106.53 ug/L	97
40) 1,2-Dichloropropane	12.32	63	400892	106.74 ug/L	97

(#) = qualifier out of range (m) = manual integration
07091218.D 062612.M Mon Jul 09 16:31:40 2012

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.37	95	290907	102.89 ug/L	98
42) Bromodichloromethane	12.43	83	341598	108.66 ug/L	99
43) 2-Chlorovinylethylether	12.96	63	173996	107.84 ug/L	100
44) cis-1,3-Dichloropropene	13.26	75	527661	110.10 ug/L	94
45) 4-Methyl-2-Pentanone (MIBK	13.41	43	404908	115.57 ug/L	99
46) trans-1,3-Dichloropropene	13.84	75	416420	113.39 ug/L	95
47) 1,1,2-Trichloroethane	14.06	97	193006	107.18 ug/L	97
49) Toluene	14.33	92	763390	105.79 ug/L	99
51) 1,3-Dichloropropane	14.39	76	419566	105.49 ug/L	99
52) 2-Hexanone	14.57	43	324425	109.68 ug/L	99
53) Dibromochloromethane	14.76	129	182737	98.67 ug/L	99
54) 1,2-Dibromoethane	15.10	107	177230	98.96 ug/L	99
55) Tetrachloroethene	15.32	164	194882	92.05 ug/L	99
56) 1,1,1,2-Tetrachloroethane	16.13	131	182092	96.46 ug/L	99
57) Chlorobenzene	16.25	112	647372	96.49 ug/L	99
58) Ethylbenzene	16.50	91	1304641	97.38 ug/L	98
59) m,p-Xylenes	16.76	106	466340	95.92 ug/L	97
60) Styrene	17.22	104	681797	96.61 ug/L	98
61) o-Xylene	17.33	106	415731	95.41 ug/L	97
64) Bromoform	16.94	173	97500	103.57 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.31	83	238636	112.30 ug/L	99
66) 1,2,3-Trichloropropane	17.51	110	49166	109.66 ug/L	98
67) trans-1,4-Dichloro-2-buten	17.52	53	90697	126.33 ug/L	99
68) Isopropylbenzene	17.82	105	979326	102.59 ug/L	98
69) Bromobenzene	18.19	156	198759	102.64 ug/L	93
70) n-Propylbenzene	18.44	91	1396563	103.75 ug/L	98
71) 2-Chlorotoluene	18.59	91	738042	106.04 ug/L	98
72) 4-Chlorotoluene	18.69	91	722963	106.86 ug/L	97
73) 1,3,5-Trimethylbenzene	18.83	105	729240	101.82 ug/L	99
74) tert-Butylbenzene	19.21	119	601190	99.77 ug/L	97
75) 1,2,4-Trimethylbenzene	19.36	105	683859	100.58 ug/L	100
76) sec-Butylbenzene	19.49	105	1024024	98.48 ug/L	99
77) 1,3-Dichlorobenzene	19.60	146	349863	100.56 ug/L	99
78) 1,4-Dichlorobenzene	19.69	146	337351	99.22 ug/L	99
79) p-Isopropyltoluene	19.72	119	722671	96.46 ug/L	99
80) 1,2-Dichlorobenzene	20.13	146	267570	98.88 ug/L	100
81) n-Butylbenzene	20.21	91	780057	96.59 ug/L	100
82) 1,2-Dibromo-3-chloropropan	20.70	75	20773	111.29 ug/L	97
83) 1,2,4-Trichlorobenzene	22.45	180	111090	83.10 ug/L	100
84) Napthalene	22.81	128	251953	93.37 ug/L	98
85) Hexachlorobutadiene	22.85	225	60351	71.12 ug/L	98
86) 1,2,3-Trichlorobenzene	23.08	180	86018	81.94 ug/L	99

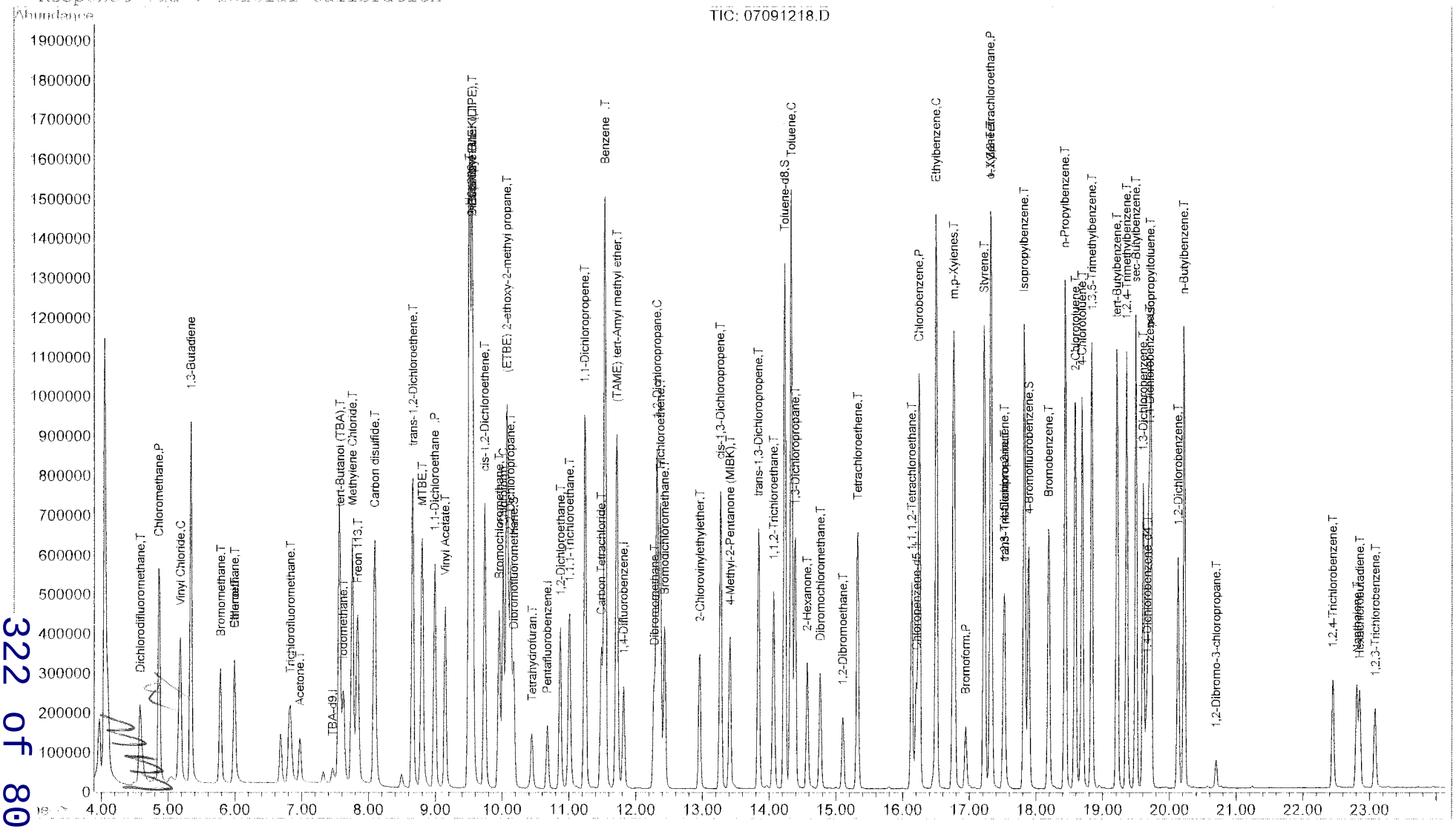
MM

(#) = qualifier out of range (m) = manual integration
07091218.D 062612.M Mon Jul 09 16:31:40 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:30 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:31 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	49414	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	115311	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	199016	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	141515	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.66	152	42219	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	407348	201.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 806.16%	
48) Toluene-d8	14.24	98	1830625	199.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 799.08%	
62) 4-Bromofluorobenzene	17.88	95	472190	179.72 ug/L	0.00
Spiked Amount 25.000			Recovery	= 718.88%	

Target Compounds					Qvalue
2) Ethanol	6.01	45	79404	1927.90 ug/L	86
3) tert-Butanol (TBA)	7.57	59	301277	950.59 ug/L	97
5) Dichlorodifluoromethane	4.57	85	767252	223.70 ug/L	100
6) Chloromethane	4.86	50	1463244	207.10 ug/L	100
7) Vinyl Chloride	5.18	62	1173155	195.82 ug/L	99
8) 1,3-Butadiene	5.33	54	894281	217.42 ug/L	95
9) Bromomethane	5.78	94	492722	201.96 ug/L	98
10) Chloroethane	5.98	64	693039	200.31 ug/L	99
11) Trichlorofluoromethane	6.81	101	560500	208.37 ug/L	100
12) Acetone	6.97	43	301421	196.33 ug/L	97
13) Iodomethane	7.62	142	631927	180.97 ug/L	99
14) 1,1-Dichloroethene	7.56	96	535860	Below Cal	91
15) Methylene Chloride	7.75	84	574444	210.90 ug/L	98
16) Freon 113	7.83	101	539759	197.93 ug/L	99
17) Carbon disulfide	8.08	76	2387787	196.46 ug/L #	93
18) trans-1,2-Dichloroethene	8.66	96	622676	219.50 ug/L	95
19) MTBE	8.79	73	1281928	231.30 ug/L	100
20) 1,1-Dichloroethane	8.99	63	1411957	229.78 ug/L	99
21) Vinyl Acetate	9.15	43	1508275	208.55 ug/L	99
22) n-Hexane	9.50	86	226304	218.72 ug/L	97
23) 2-Butanone (MEK)	9.54	72	73221	197.97 ug/L #	98
24) Diisopropyl Ether (DIPE)	9.55	45	3133776	217.87 ug/L	96
25) cis-1,2-Dichloroethene	9.74	96	589602	217.84 ug/L	95
26) Bromochloromethane	9.96	128	204275	203.77 ug/L	93
27) Chloroform	10.02	83	886063	224.88 ug/L	97
28) 2,2-Dichloropropane	10.12	77	713862	270.20 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	10.07	59	2043857	233.23 ug/L	98
31) Tetrahydrofuran	10.44	72	56268	197.86 ug/L	97
32) 1,2-Dichloroethane	10.86	62	571634	228.13 ug/L	98
33) 1,1,1-Trichloroethane	11.00	97	610409	222.12 ug/L	96
34) (TAME) tert-Amyl methyl et	11.71	73	1462532	232.12 ug/L	99
36) 1,1-Dichloropropene	11.24	75	1025853	224.31 ug/L	97
37) Carbon Tetrachloride	11.49	117	469039	210.14 ug/L	99
38) Benzene	11.53	78	2694547	215.90 ug/L	99
39) Dibromomethane	12.27	93	234306	200.80 ug/L	98
40) 1,2-Dichloropropane	12.31	63	712452	212.17 ug/L	96

(#) = qualifier out of range (m) = manual integration
07091219.D 062612.M Mon Jul 09 16:32:12 2012

BAK

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:31 2012 Quant Results File: 062612.RES

Quant Method : C:\HPCHEM\1...\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.36	95	538205	212.98 ug/L	98
42)	Bromodichloromethane	12.43	83	606932	215.76 ug/L	99
43)	2-Chlorovinylethylether	12.95	63	281982	195.08 ug/L	100
44)	cis-1,3-Dichloropropene	13.27	75	924777	215.66 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	639212	203.91 ug/L	98
46)	trans-1,3-Dichloropropene	13.84	75	705141	214.52 ug/L	96
47)	1,1,2-Trichloroethane	14.07	97	321066	199.18 ug/L	97
49)	Toluene	14.32	92	1376084	213.37 ug/L	99
51)	1,3-Dichloropropane	14.38	76	704704	209.26 ug/L	98
52)	2-Hexanone	14.57	43	499409	199.17 ug/L	99
53)	Dibromochloromethane	14.77	129	311685	198.73 ug/L	100
54)	1,2-Dibromoethane	15.10	107	294677	194.32 ug/L	99
55)	Tetrachloroethene	15.32	164	361111	201.70 ug/L	99
56)	1,1,1,2-Tetrachloroethane	16.14	131	318800	199.57 ug/L	100
57)	Chlorobenzene	16.25	112	1143424	201.40 ug/L	99
58)	Ethylbenzene	16.50	91	2360587	208.33 ug/L	98
59)	m,p-Xylenes	16.77	106	830817	202.11 ug/L	96
60)	Styrene	17.22	104	1190656	199.37 ug/L	98
61)	o-Xylene	17.32	106	732663	198.80 ug/L	98
64)	Bromoform	16.95	173	159496	219.92 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.31	83	365298	223.43 ug/L	100
66)	1,2,3-Trichloropropane	17.51	110	76173	221.04 ug/L	97
67)	trans-1,4-Dichloro-2-buten	17.53	53	136170	246.19 ug/L	99
68)	Isopropylbenzene	17.82	105	1760555	239.98 ug/L	98
69)	Bromobenzene	18.19	156	333700	223.98 ug/L	93
70)	n-Propylbenzene	18.44	91	2449847	236.76 ug/L	98
71)	2-Chlorotoluene	18.58	91	1276486	238.61 ug/L	97
72)	4-Chlorotoluene	18.69	91	1217663	234.08 ug/L	97
73)	1,3,5-Trimethylbenzene	18.83	105	1241265	225.57 ug/L	99
74)	tert-Butylbenzene	19.21	119	1037596	224.24 ug/L	97
75)	1,2,4-Trimethylbenzene	19.35	105	1153831	220.88 ug/L	99
76)	sec-Butylbenzene	19.49	105	1744232	222.68 ug/L	99
77)	1,3-Dichlorobenzene	19.61	146	566043	211.60 ug/L	98
78)	1,4-Dichlorobenzene	19.69	146	548118	209.68 ug/L	99
79)	p-Isopropyltoluene	19.72	119	1210682	218.93 ug/L	99
80)	1,2-Dichlorobenzene	20.13	146	418923	201.50 ug/L	100
81)	n-Butylbenzene	20.22	91	1304381	220.10 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.69	75	28550	262.46 ug/L	99
83)	1,2,4-Trichlorobenzene	22.45	180	170538	201.72 ug/L	99
84)	Napthalene	22.80	128	367174	216.11 ug/L	97
85)	Hexachlorobutadiene	22.85	225	95089	189.10 ug/L	99
86)	1,2,3-Trichlorobenzene	23.08	180	128924	210.26 ug/L	99

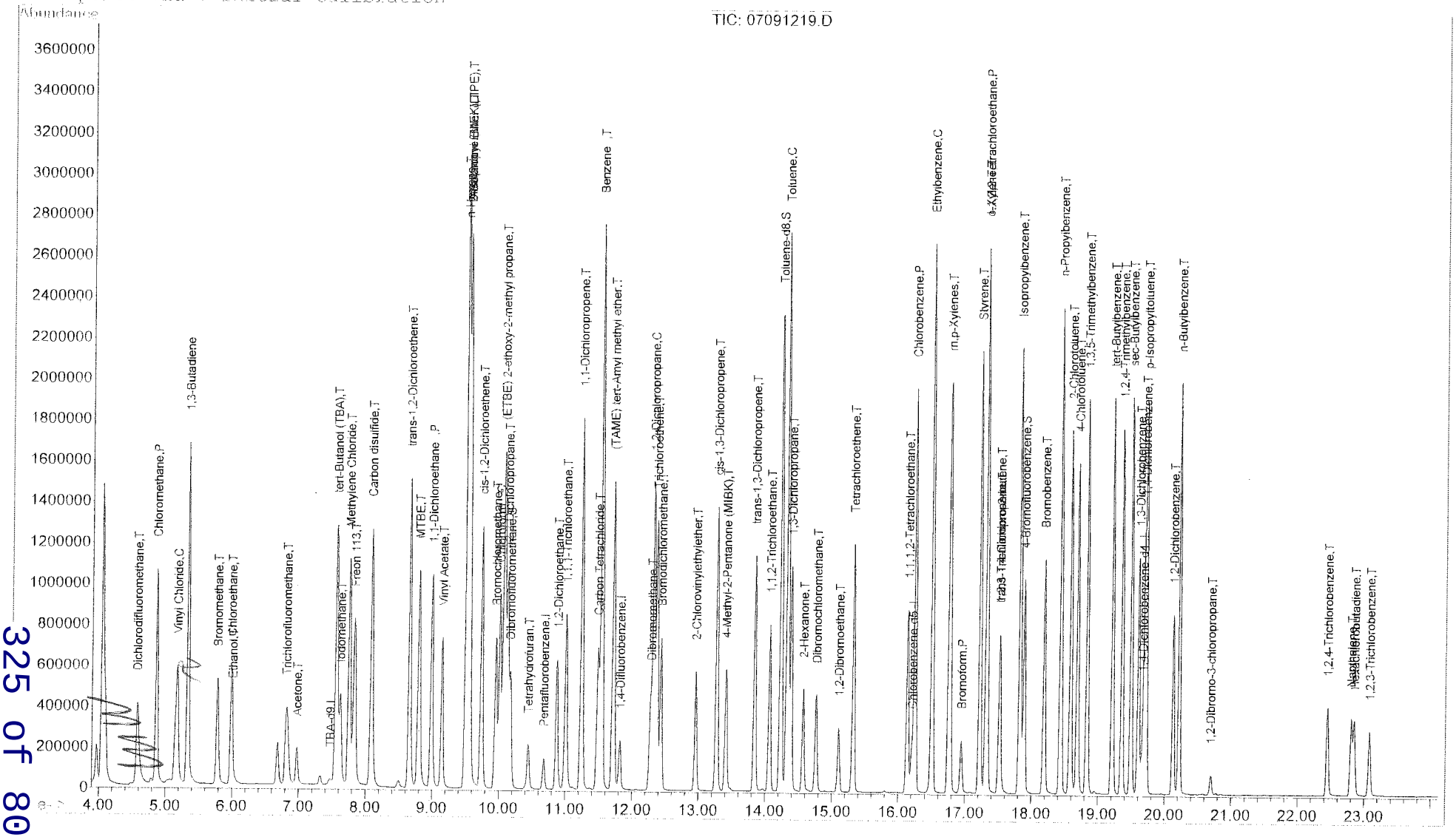
MM

(#) = qualifier out of range (m) = manual integration
07091219.D 062612.M Mon Jul 09 16:32:12 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 9 16:31 2012 Quant Results File: 062612.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\062612.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Tue Jun 26 13:12:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091210.D Vial: 4
Acq On : 9 Jul 2012 10:25 am Operator: MNM
Sample : BLANK Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:50 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	61496	200.00 ug/L	-0.01
4) Pentafluorobenzene	10.67	168	145964	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	248661	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	173698	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	63447	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	61042	24.68 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.72%	
48) Toluene-d8	14.22	98	285415	25.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.64%	
62) 4-Bromofluorobenzene	17.88	95	78158	25.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.64%	

Target Compounds					Qvalue
2) Ethanol	5.99	45	371	7.57 ug/L	87
3) tert-Butanol (TBA)	7.57	59	752	1.93 ug/L #	70
8) 1,3-Butadiene	5.35	54	817	0.14 ug/L #	23
9) Bromomethane	5.93	94	518	0.17 ug/L #	60
12) Acetone	6.97	43	4857	2.28 ug/L	98
14) 1,1-Dichloroethene	7.55	96	1351	0.37 ug/L #	1
15) Methylene Chloride	7.73	84	219	Below Cal #	77
18) trans-1,2-Dichloroethene	8.65	96	329	Below Cal #	1
25) cis-1,2-Dichloroethene	9.75	96	568	Below Cal #	1
28) 2,2-Dichloropropane	10.14	77	1017	Below Cal #	21
31) Tetrahydrofuran	10.46	72	92	0.24 ug/L #	1
33) 1,1,1-Trichloroethane	10.99	97	383	Below Cal #	17
42) Bromodichloromethane	12.39	83	384	0.10 ug/L #	95
45) 4-Methyl-2-Pentanone (MIBK	13.24	43	576	0.14 ug/L #	40
47) 1,1,2-Trichloroethane	14.03	97	809	0.41 ug/L #	15
51) 1,3-Dichloropropane	14.22	76	2966	0.71 ug/L #	49
52) 2-Hexanone	14.58	43	560	0.19 ug/L #	57
82) 1,2-Dibromo-3-chloropropan	20.73	75	90	Below Cal #	8

UNT

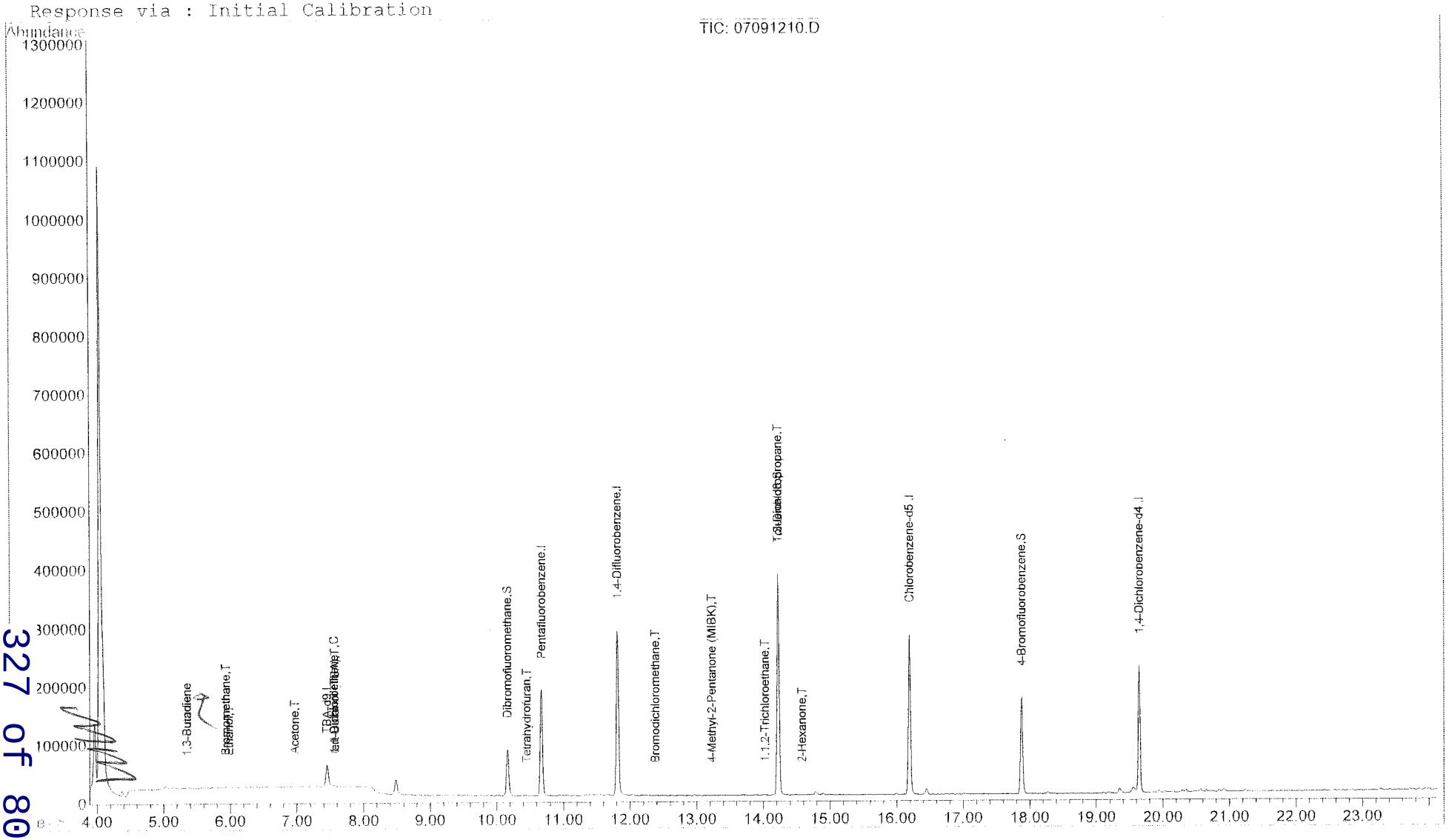
MM 7/11/12

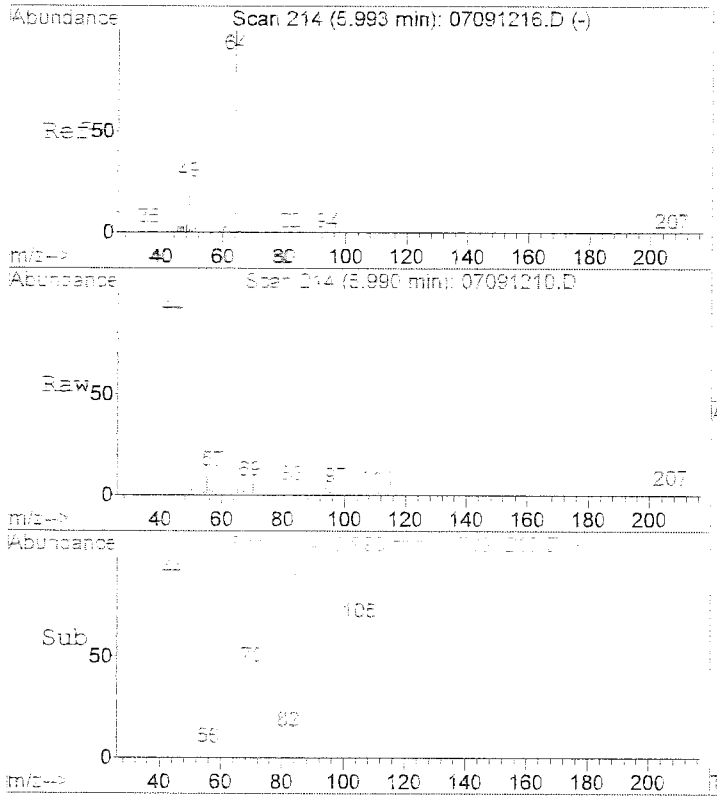
(#) = qualifier out of range (m) = manual integration
07091210.D 070912.M Wed Jul 11 06:50:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091210.D Vial: 4
Acq On : 9 Jul 2012 10:25 am Operator: MNM
Sample : BLANK Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:50 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

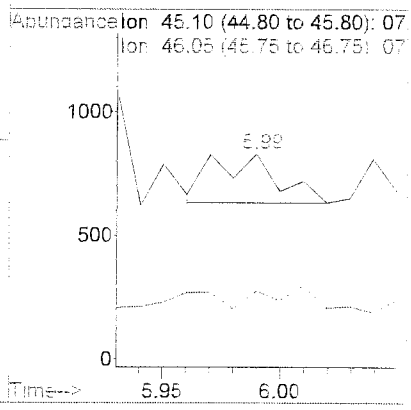


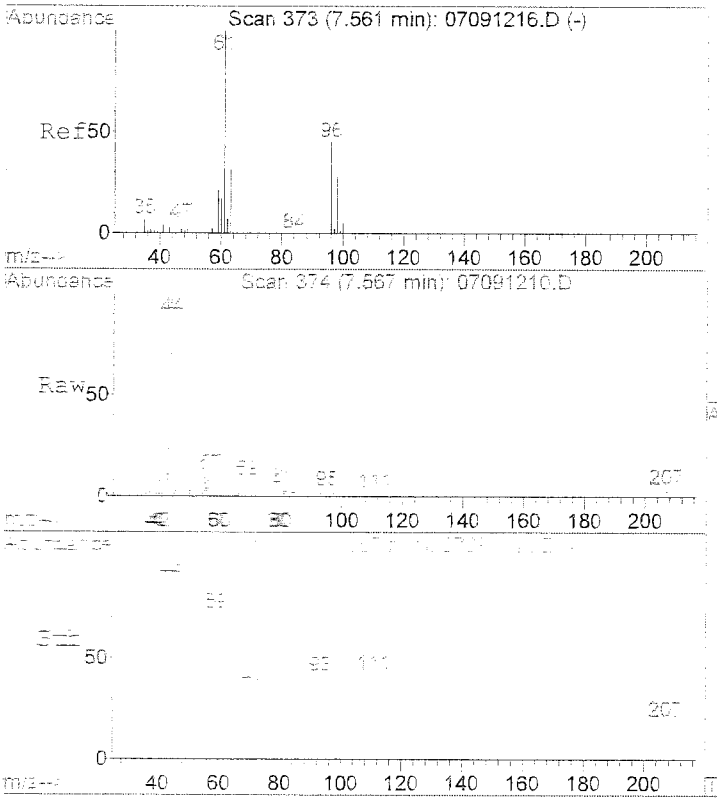


#2
Ethanol
Concen: 7.57 ug/L
RT: 5.99 min Scan# 214
Delta R.T. -0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 45 Resp: 371

Ion	Ratio	Lower	Upper
45	100		
46	55.3	45.9	85.9

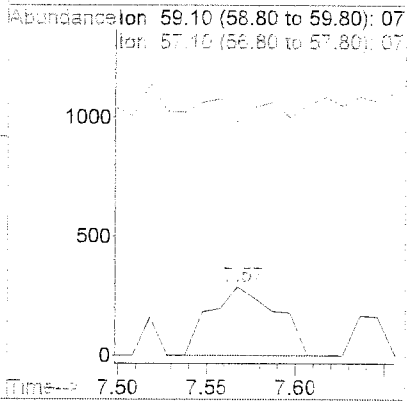


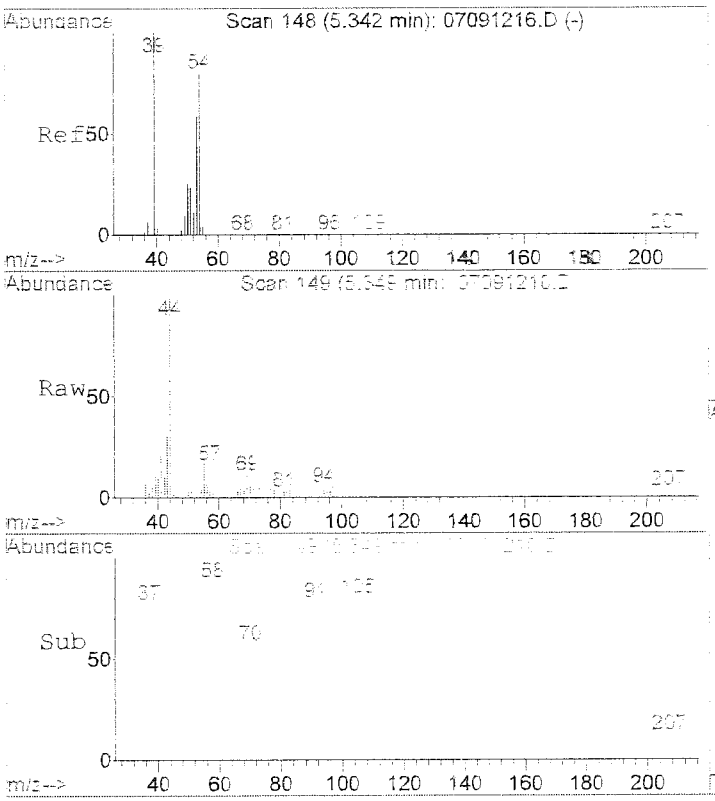


#3
tert-Butanol (TBA)
Concen: 1.93 ug/L
RT: 7.57 min Scan# 374
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 59 Resp: 752

Ion	Ratio	Lower	Upper
59	100		
57	19.3	6.8	10.2#

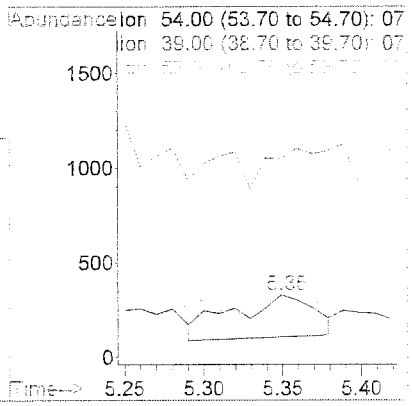


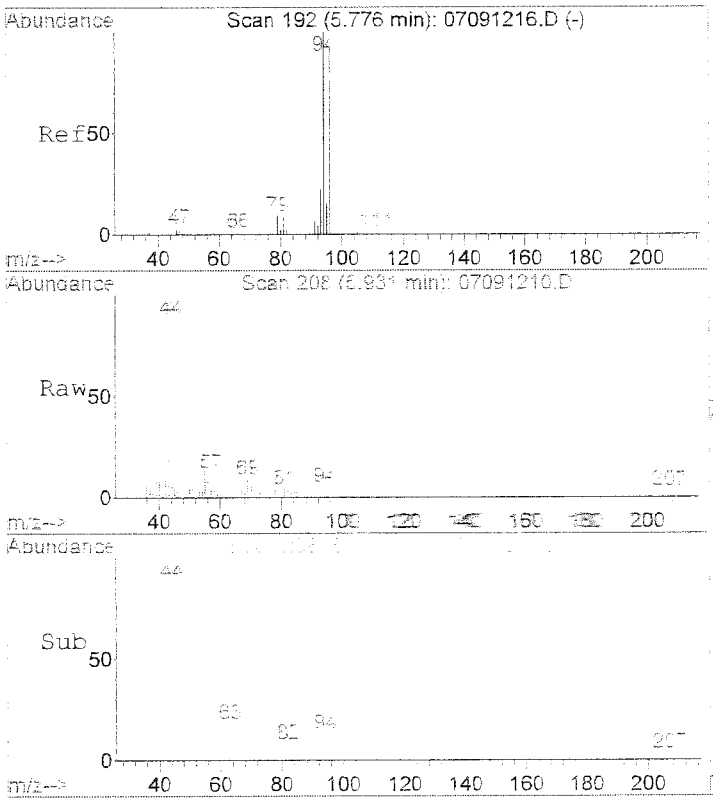


#8
1,3-Butadiene
Concen: 0.14 ug/L
RT: 5.35 min Scan# 149
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 54 Resp: 817

Ion	Ratio	Lower	Upper
54	100		
39	36.5	101.8	152.6#
53	10.3	58.1	87.1#

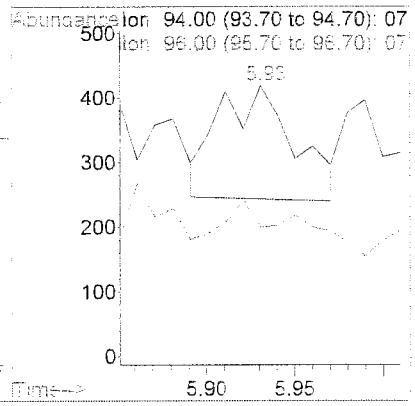




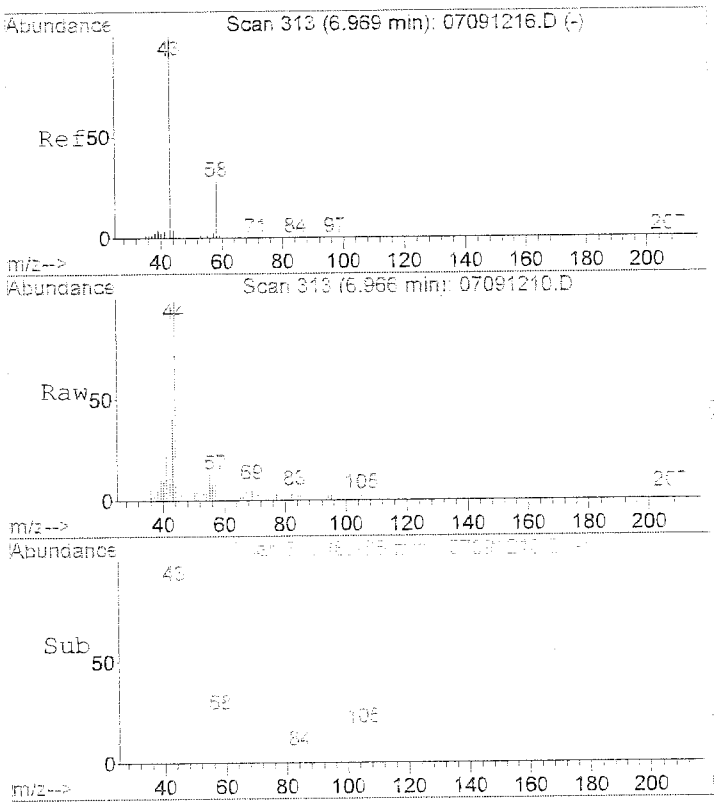
#9
Bromomethane
Concen: 0.17 ug/L
RT: 5.93 min Scan# 208
Delta R.T. 0.15 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 94 Resp: 518

Ion	Ratio	Lower	Upper
94	100		
96	57.3	76.8	115.2#



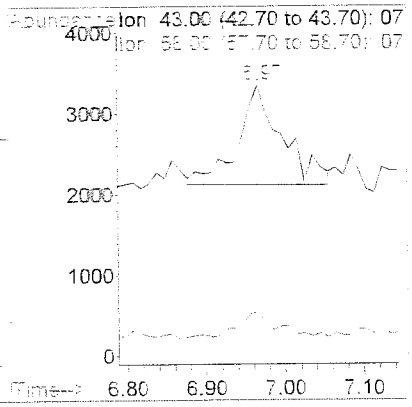
MM

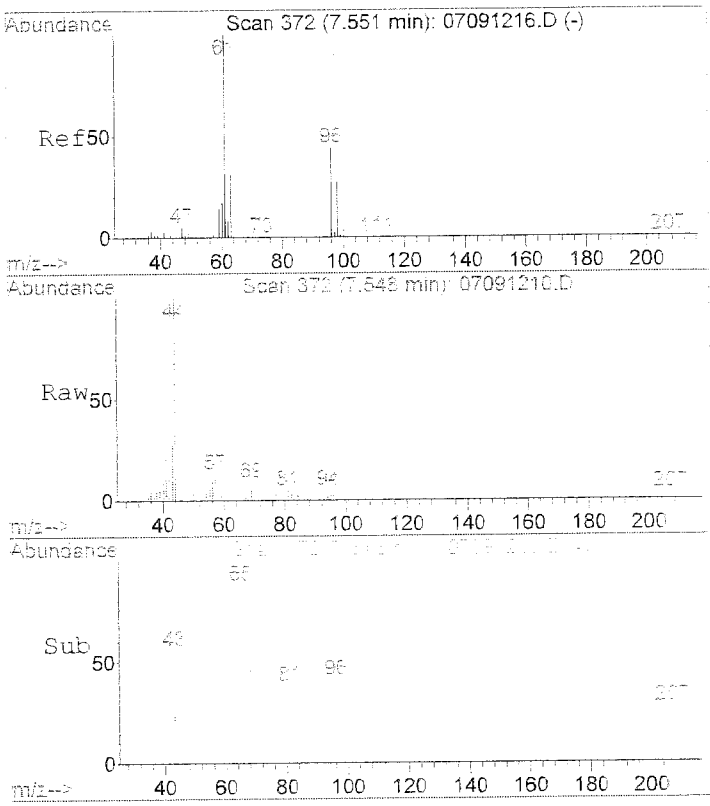


#12
Acetone
Concen: 2.28 ug/L
RT: 6.97 min Scan# 313
Delta R.T. -0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 4857

Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.7	38.5

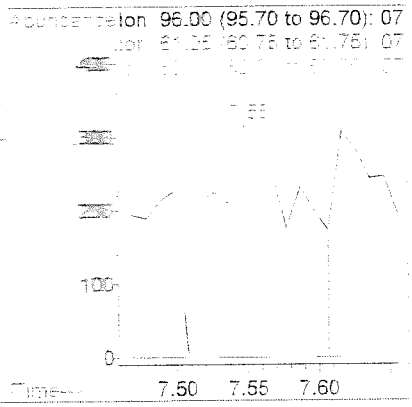




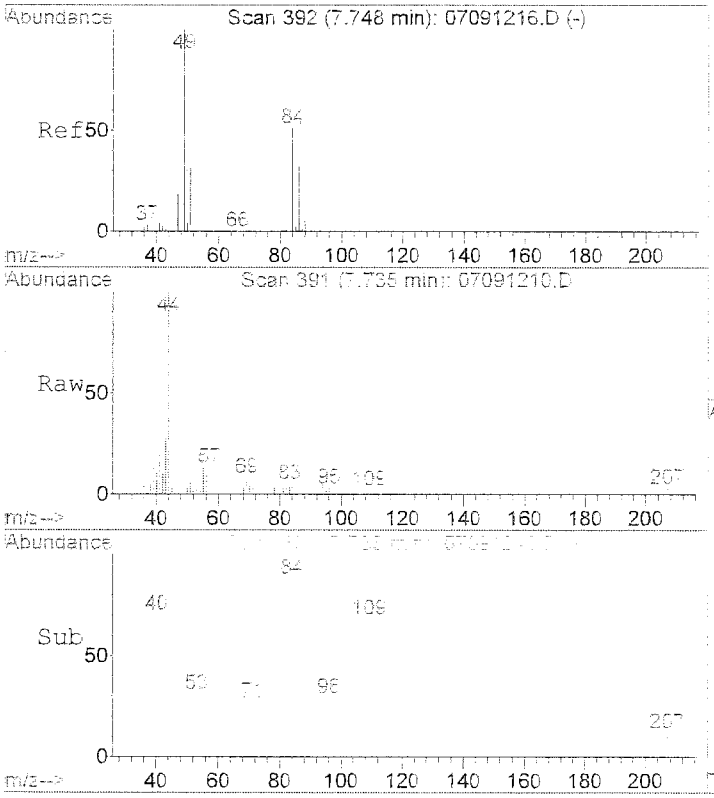
#14
1,1-Dichloroethene
Concen: 0.37 ug/L
RT: 7.55 min Scan# 372
Delta R.T. -0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 96 Resp: 1351

Ion	Ratio	Lower	Upper
96	100		
61	0.0	177.6	266.4#
63	15.4	57.5	86.3#



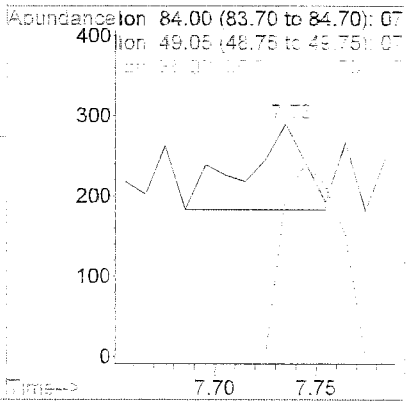
MM

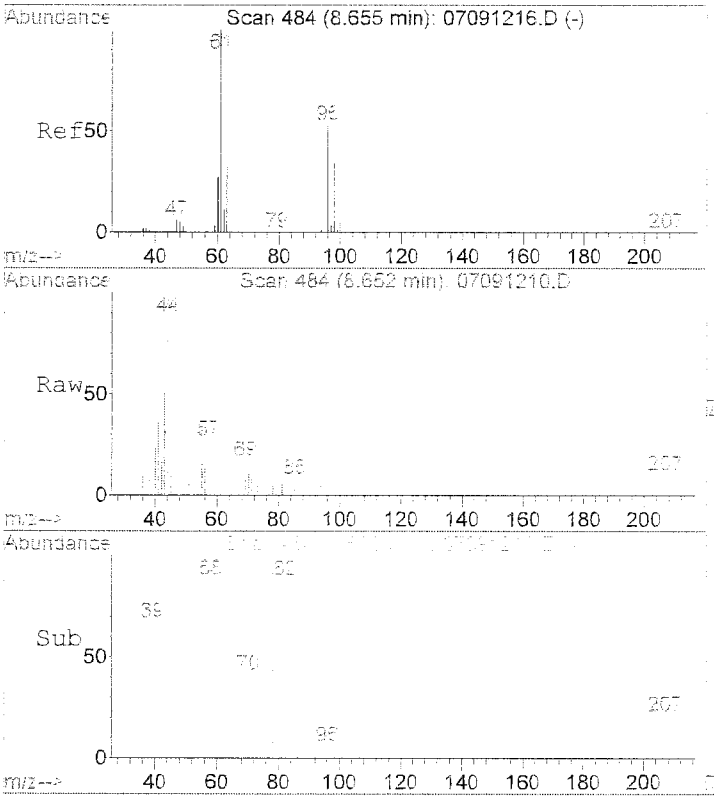


#15
Methylene Chloride
Concen: Below Cal
RT: 7.73 min Scan# 391
Delta R.T. -0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 84 Resp: 219

Ion	Ratio	Lower	Upper
84	100		
49	217.8	147.9	221.9
86	40.6	47.8	71.6#

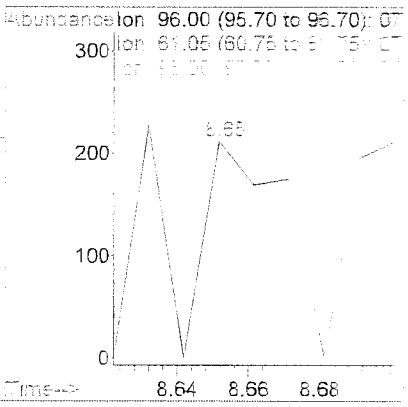




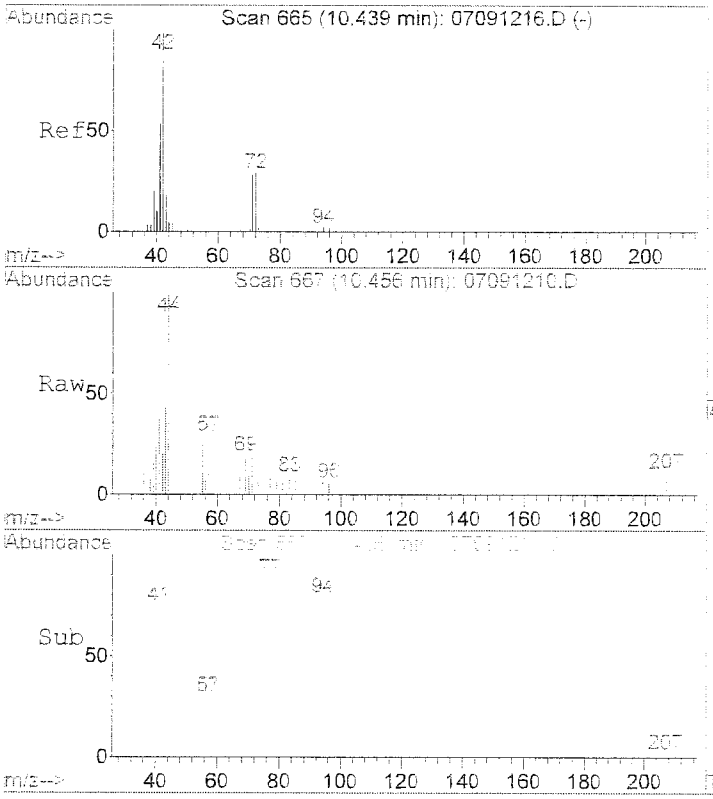
#18
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 8.65 min Scan# 484
Delta R.T. -0.00 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 96 Resp: 329

Ion	Ratio	Lower	Upper
96	100		
61	0.0	151.7	227.5#
98	0.0	49.8	74.8#



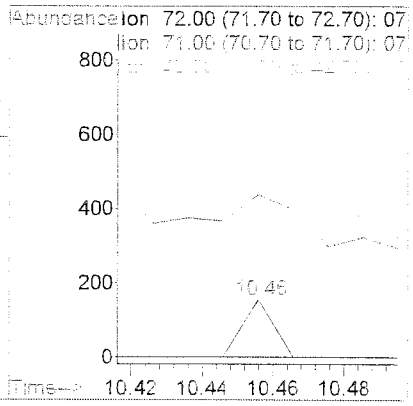
mm

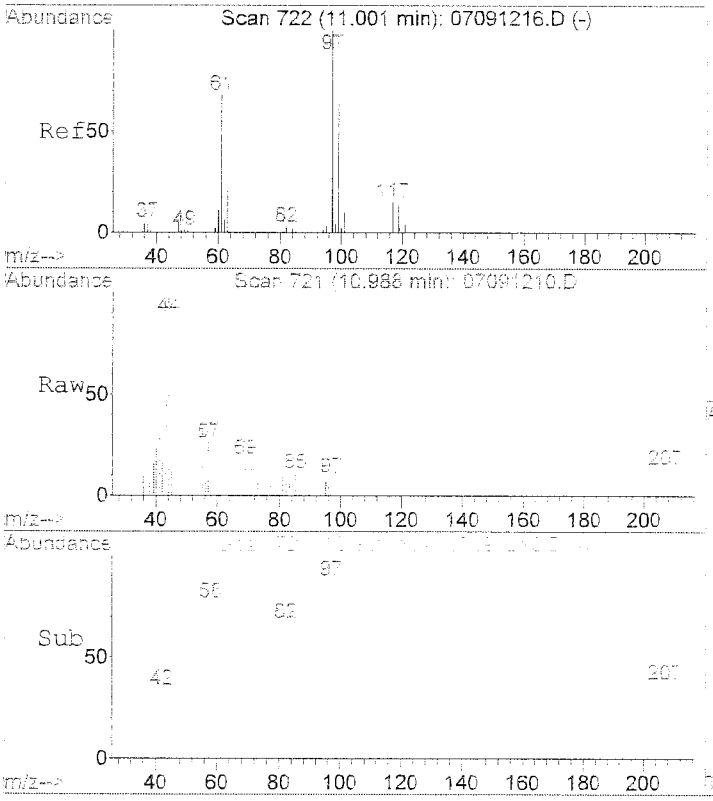


#31
Tetrahydrofuran
Concen: 0.24 ug/L
RT: 10.46 min Scan# 667
Delta R.T. 0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 72 Resp: 92

Ion	Ratio	Lower	Upper
72	100		
71	180.4	81.8	122.8#
42	1170.7	271.7	407.5#

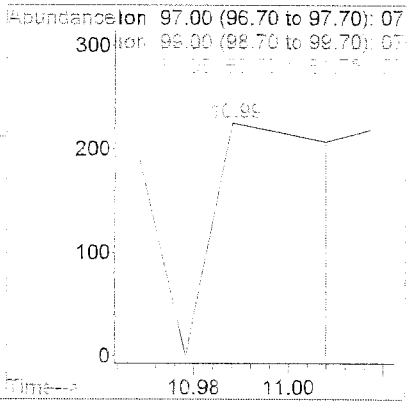


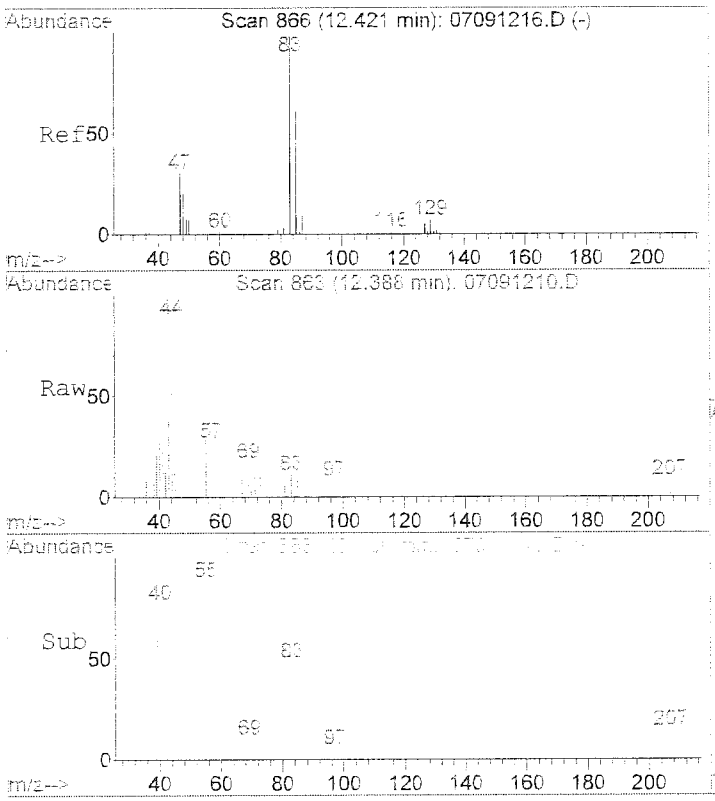


#33
1,1,1-Trichloroethane
Concen: Below Cal
RT: 10.99 min Scan# 721
Delta R.T. -0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 97 Resp: 383

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.0	75.0#
61	0.0	55.4	83.2#

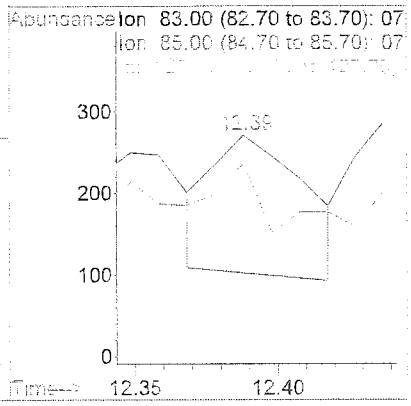


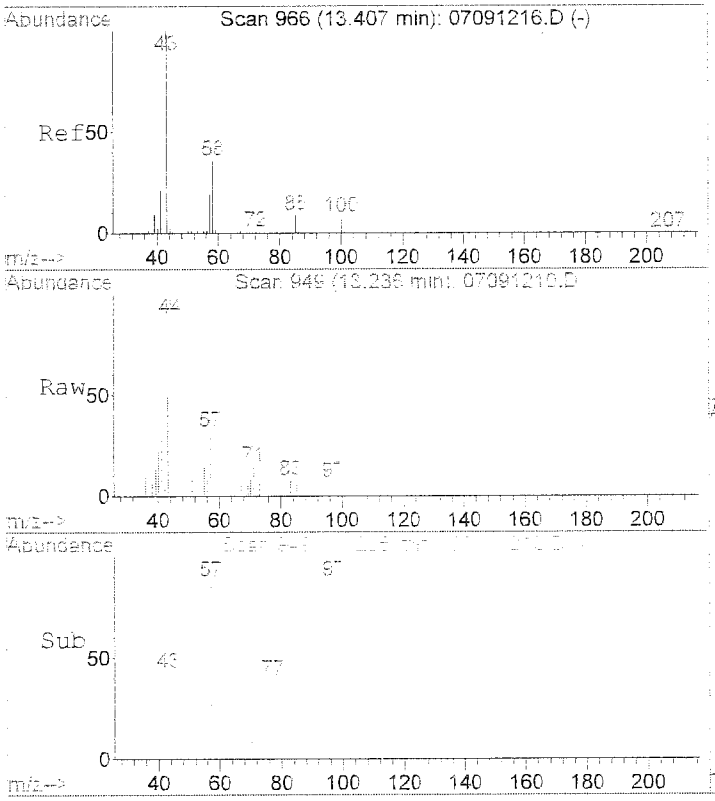


#42
Bromodichloromethane
Concen: 0.10 ug/L
RT: 12.39 min Scan# 863
Delta R.T. -0.03 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 83 Resp: 384

Ion	Ratio	Lower	Upper
83	100		
85	63.5	48.4	72.6
127	0.0	4.6	6.8#

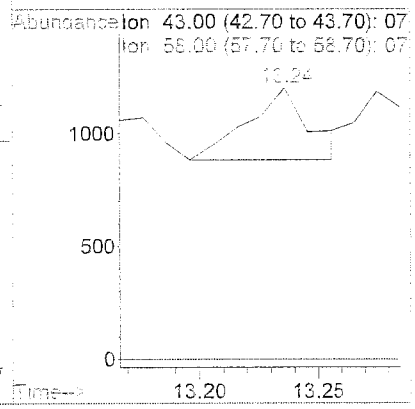


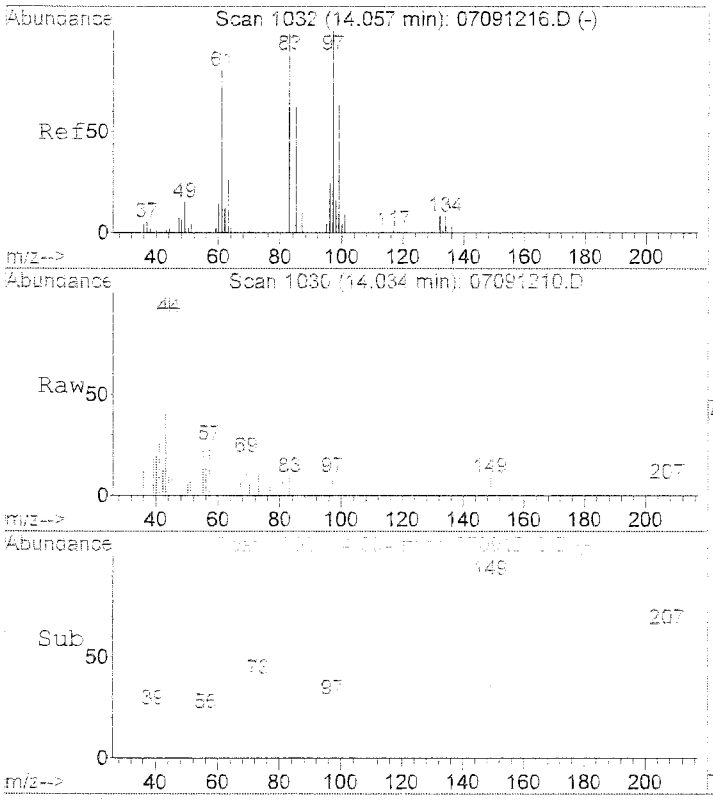


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.14 ug/L
RT: 13.24 min Scan# 949
Delta R.T. -0.17 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 576

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	41.9#

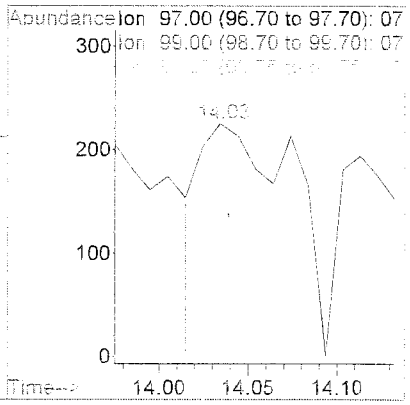


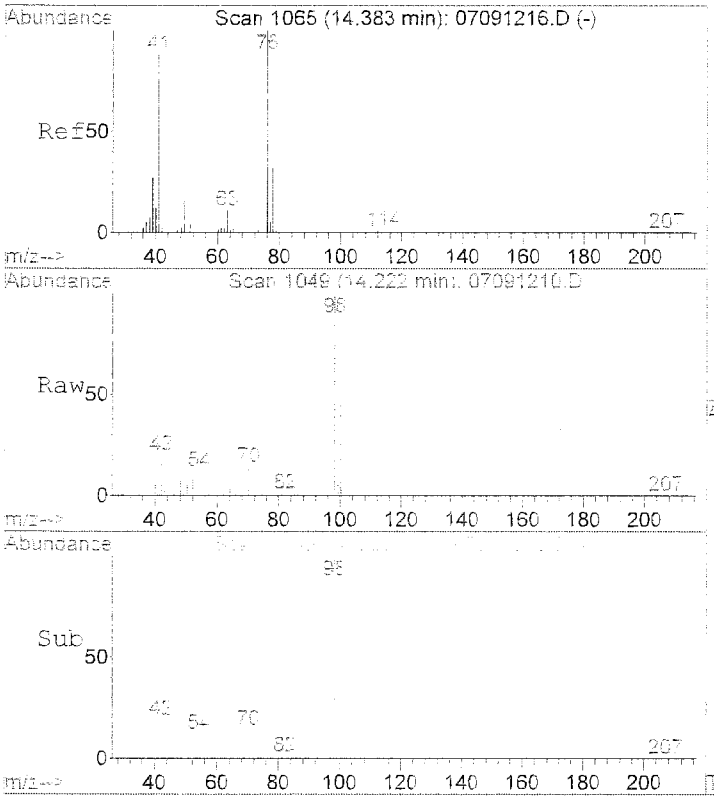


#47
1,1,2-Trichloroethane
Concen: 0.41 ug/L
RT: 14.03 min Scan# 1030
Delta R.T. -0.02 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 97 Resp: 809

Ion	Ratio	Lower	Upper
97	100		
99	0.0	48.0	72.0#
61	0.0	61.8	92.8#

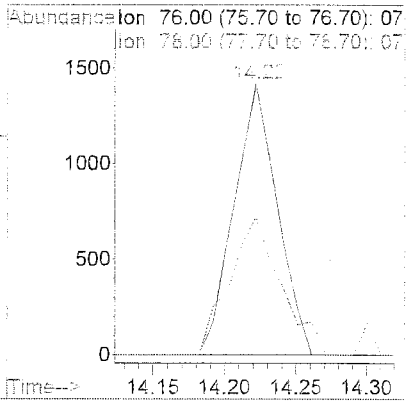


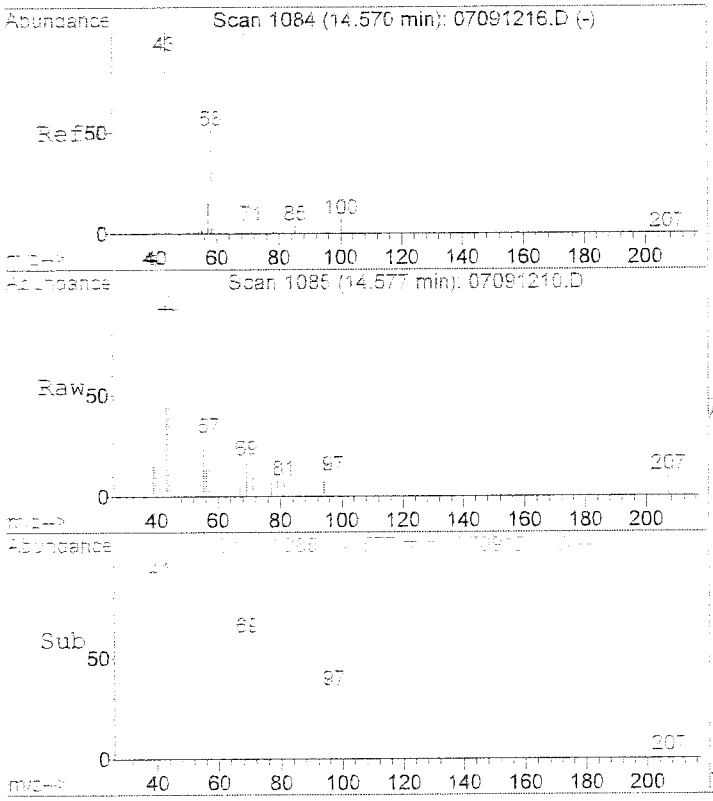


#51
1,3-Dichloropropane
Concen: 0.71 ug/L
RT: 14.22 min Scan# 1049
Delta R.T. -0.16 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 76 Resp: 2966

Ion	Ratio	Lower	Upper
76	100		
78	60.5	25.6	38.4#

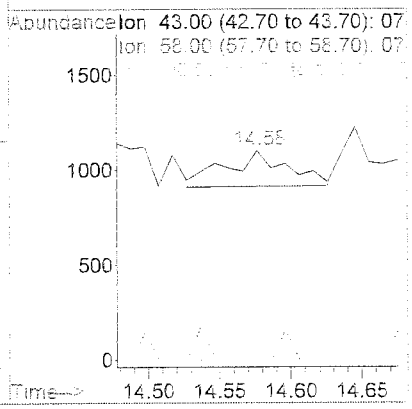


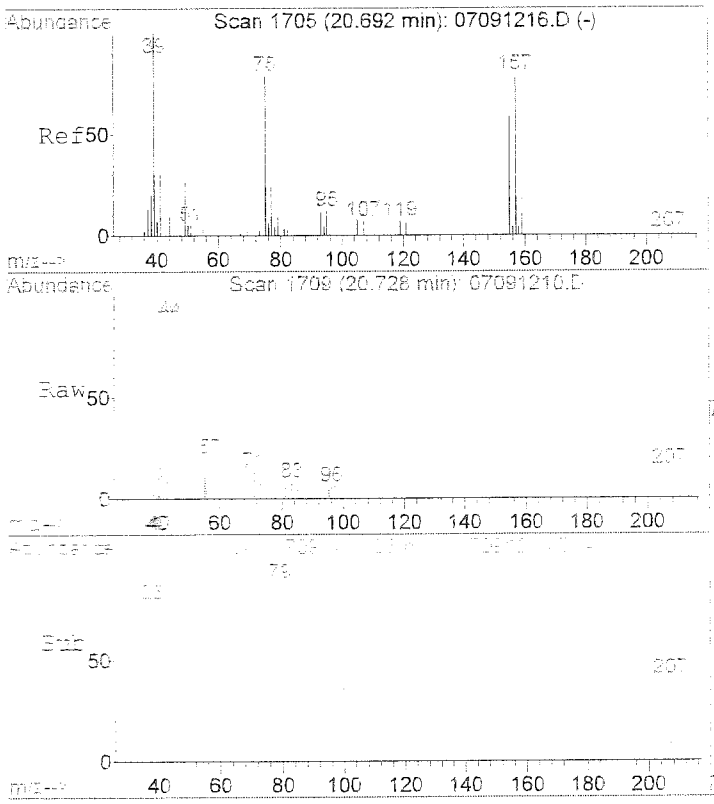


#52
2-Hexanone
Concen: 0.19 ug/L
RT: 14.58 min Scan# 1085
Delta R.T. 0.01 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 43 Resp: 560

Ion	Ratio	Lower	Upper
43	100		
58	16.6	38.3	57.5#
100	0.0	5.1	7.7#

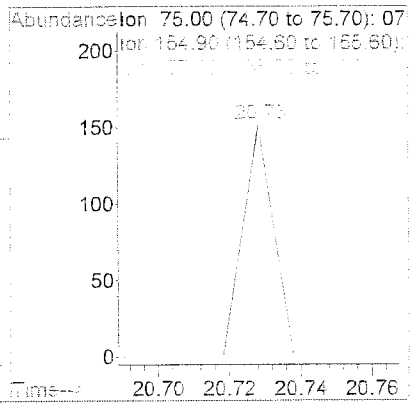




#82
1,2-Dibromo-3-chloropropane
Concen: Below Cal
RT: 20.73 min Scan# 1709
Delta R.T. 0.04 min
Lab File: 07091210.D
Acq: 9 Jul 2012 10:25 am

Tgt Ion: 75 Resp: 90

Ion	Ratio	Lower	Upper
75	100		
155	0.0	56.3	84.5#
157	0.0	75.5	113.3#

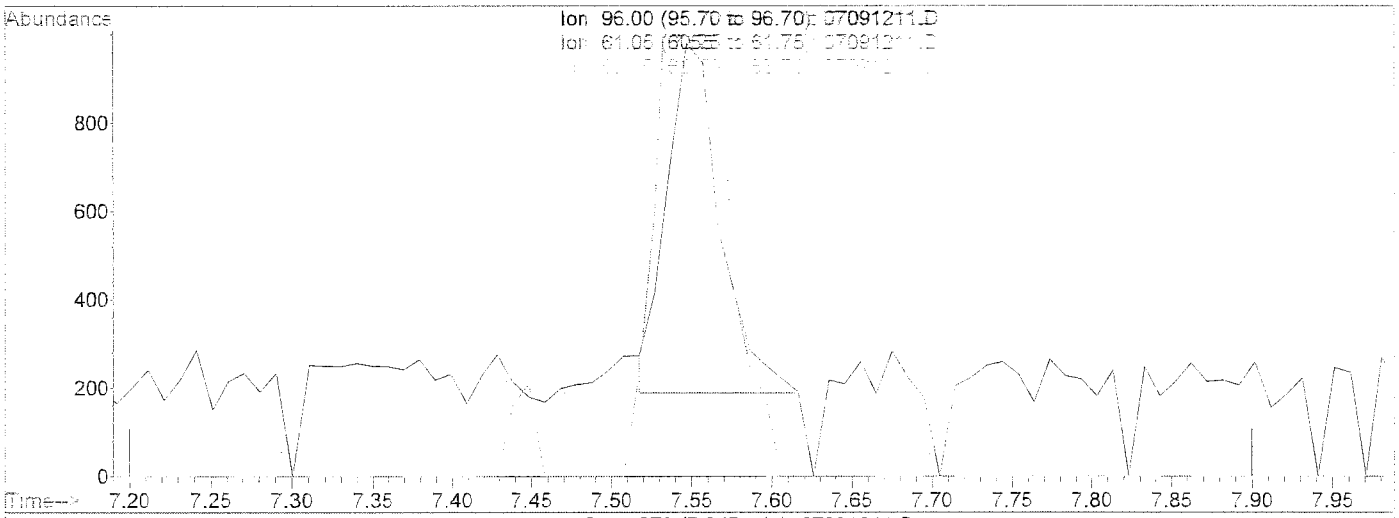


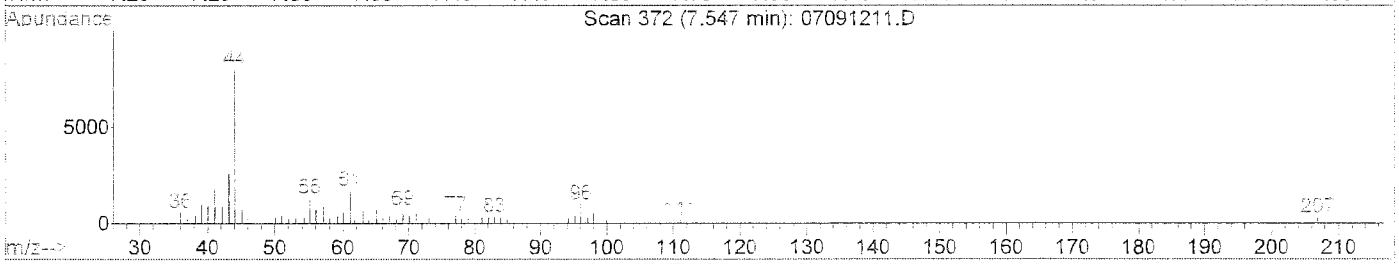
MM

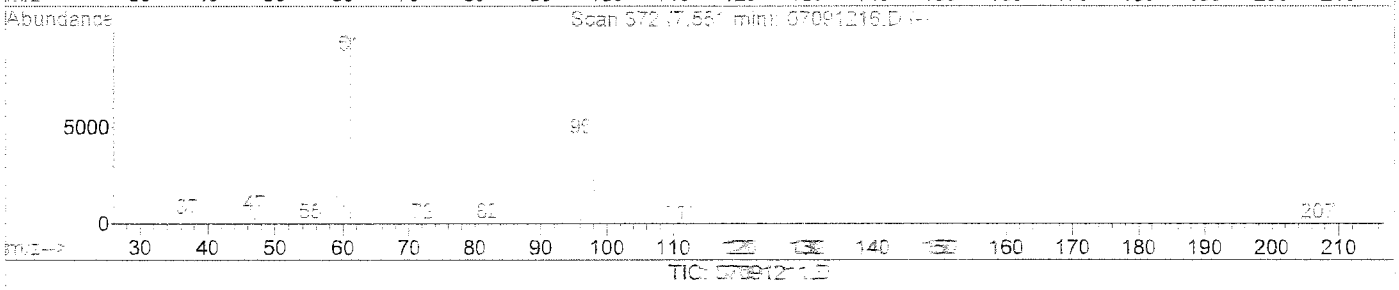
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







(14) 1,1-Dichloroethene (C)

7.55min 0.51ug/L m

response 1824

Ion	Exp%	Act%
96.00	100	100
61.05	222.00	236.29
63.00	71.90	105.70#
0.00	0.00	0.00

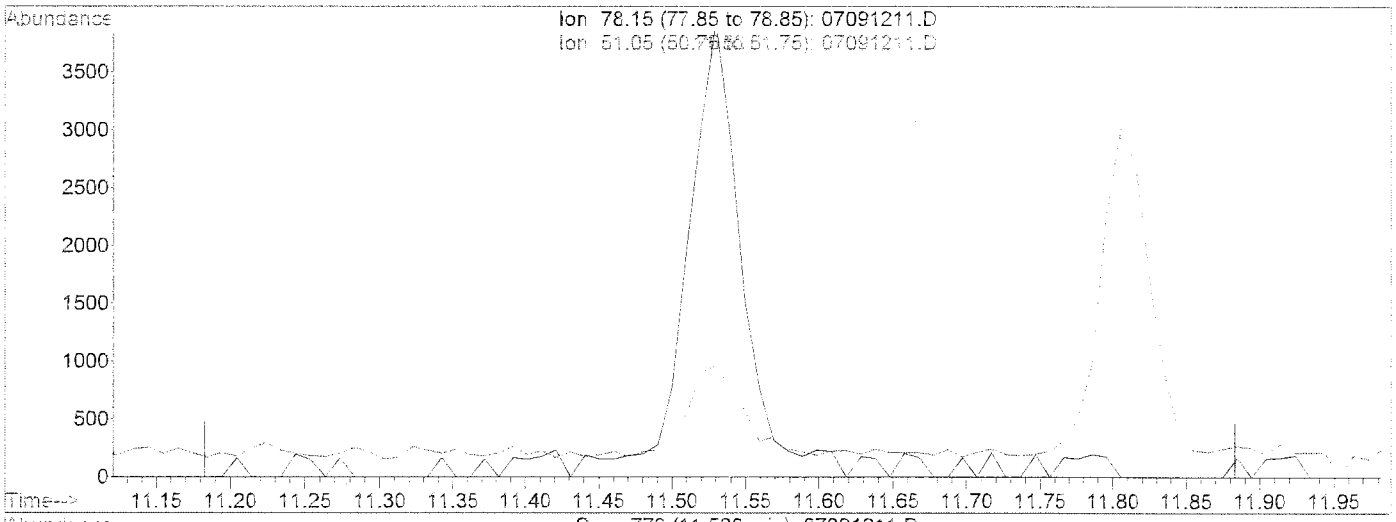
A
MM 7/11/12

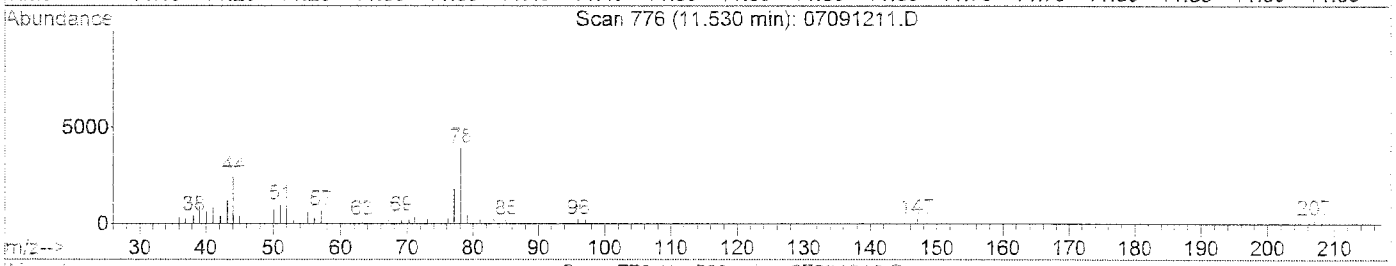
Printer problems
It did not print before

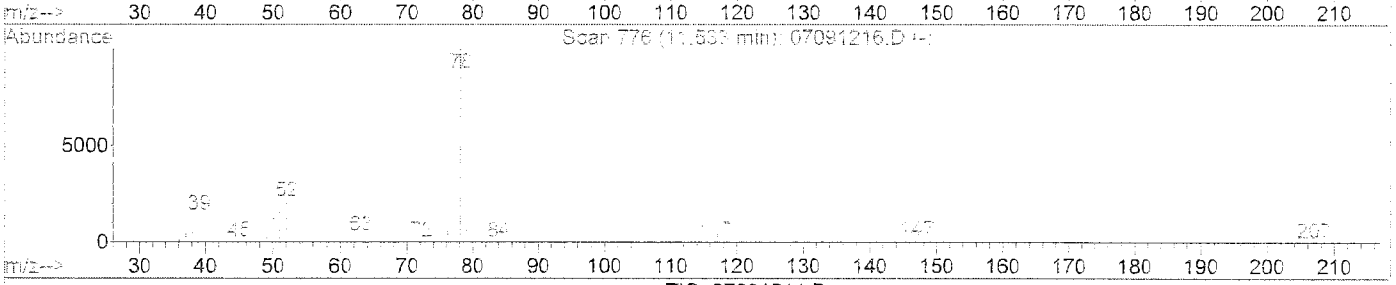
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







(38) Benzene (T)

11.53min 0.62ug/L

response 10213

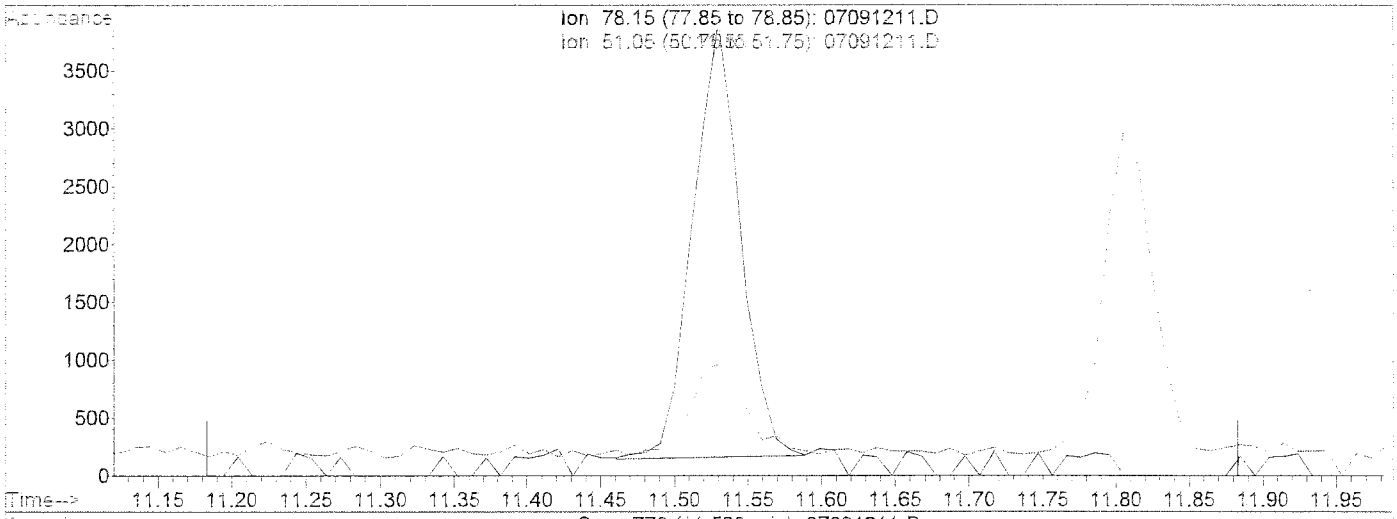
Ion	Exp%	Act%
78.15	100	100
51.05	20.90	21.02
0.00	0.00	0.00
0.00	0.00	0.00

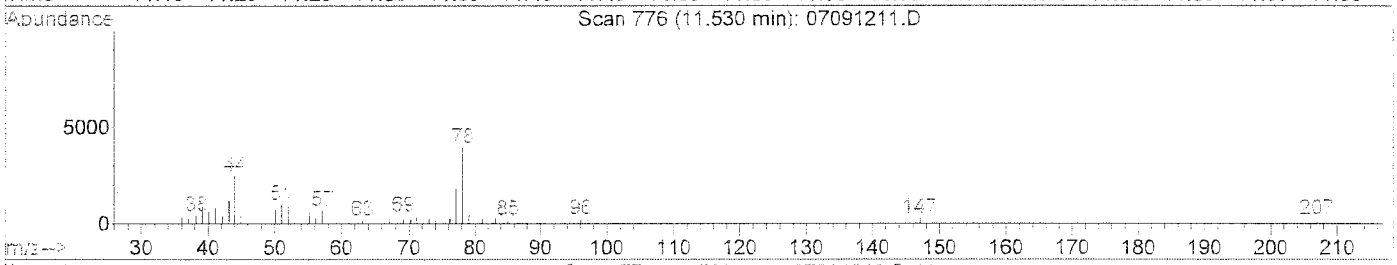
B
BL
MM
7/11/12

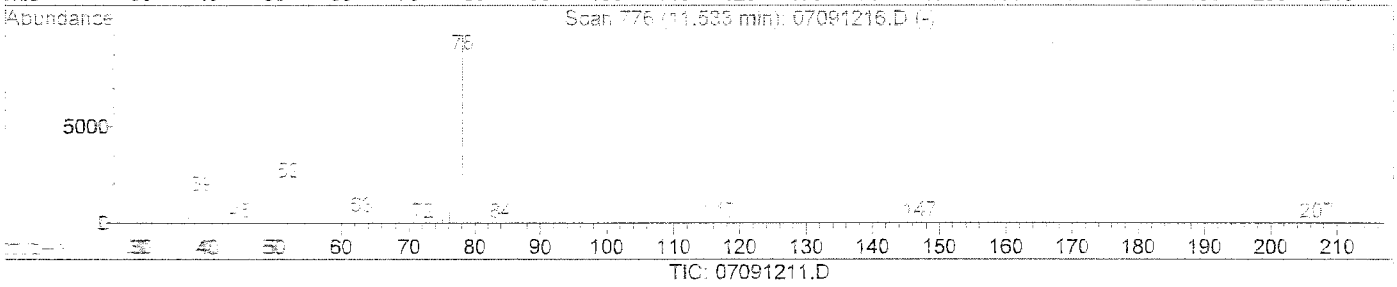
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:52 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







(38) Benzene (T)

11.53min 0.51ug/L m

response 8434

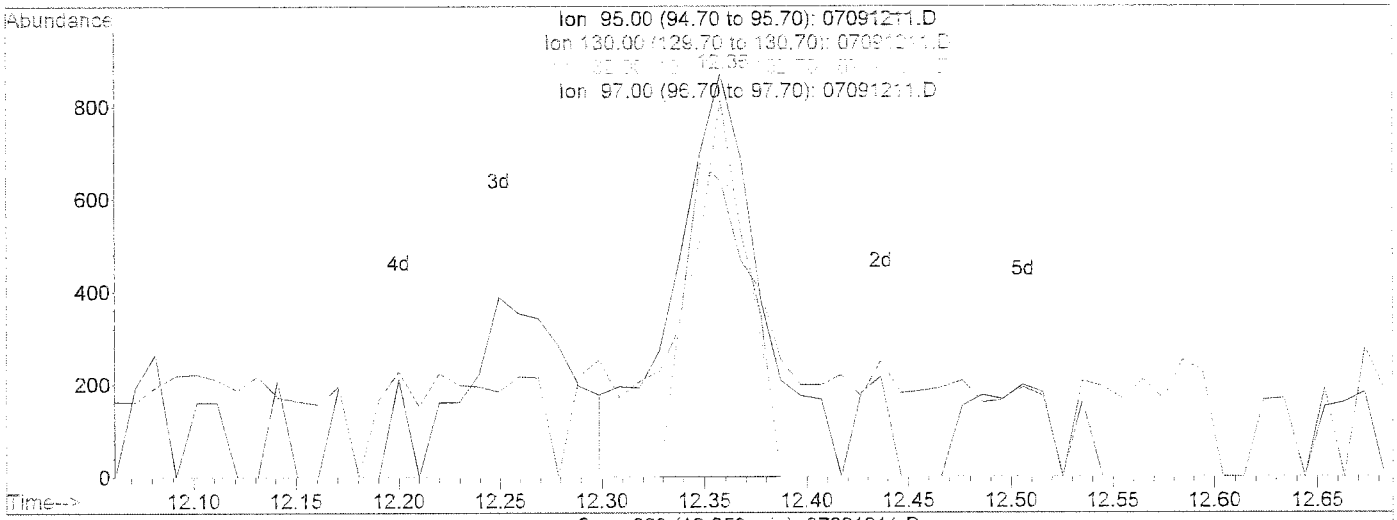
Ion	Exp%	Act%
78.15	100	100
51.05	20.90	25.46#
0.00	0.00	0.00
0.00	0.00	0.00

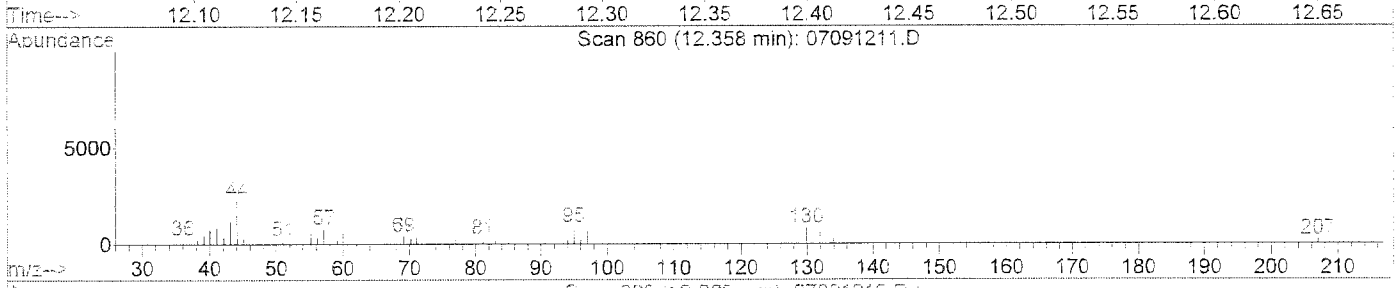
A
MM 7/11/12

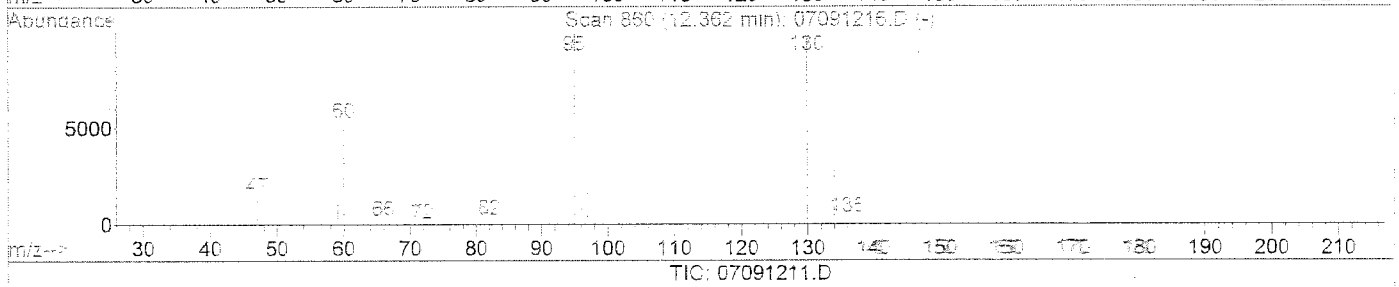
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:52 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091211.D

(41) Trichloroethene (T)

12.36min 0.78ug/L

response 2552

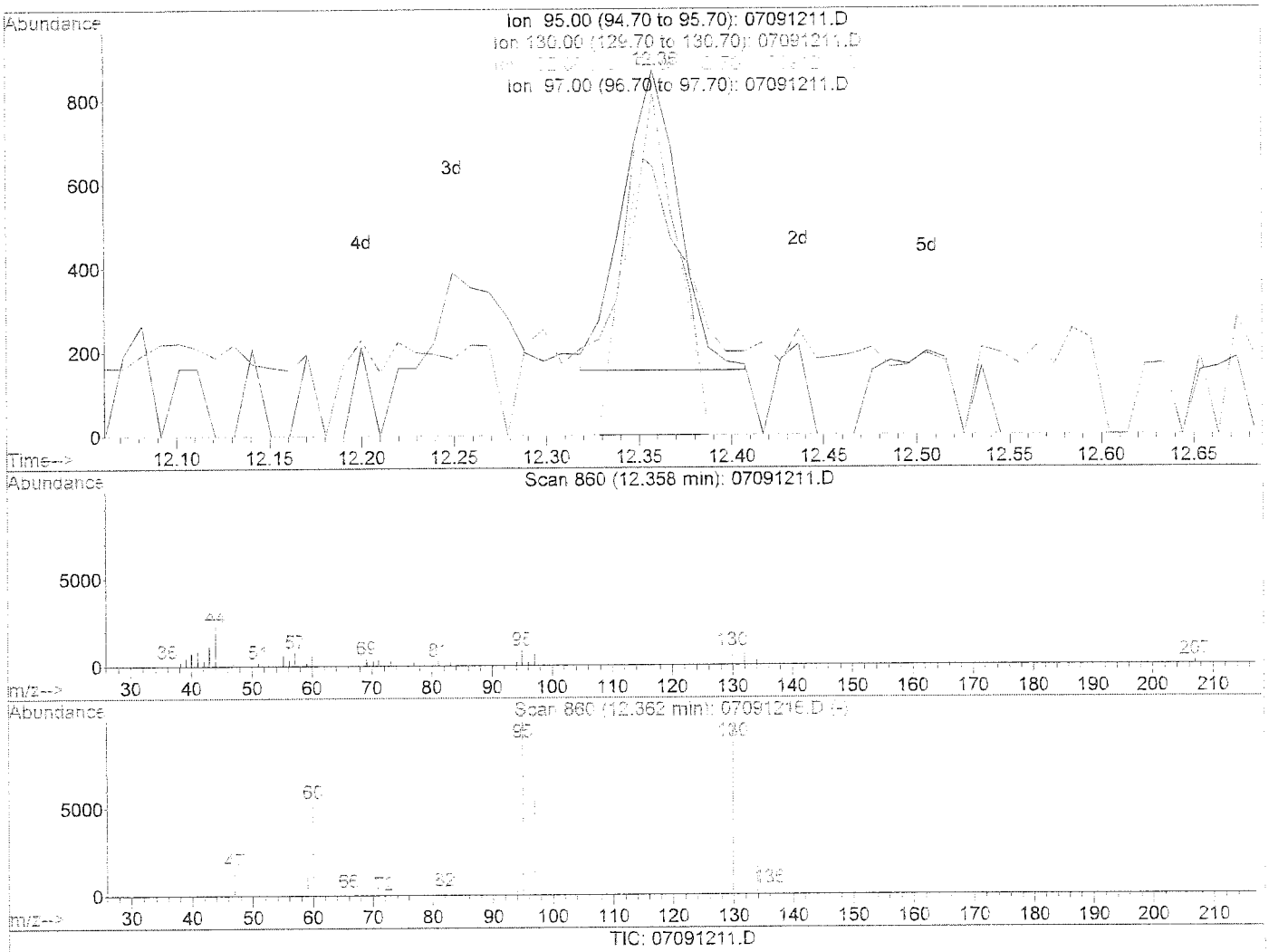
Ion	Exp%	Act%
95.00	100	100
130.00	90.40	58.74#
132.00	85.50	55.64#
97.00	63.70	83.27#

B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:52 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(41) Trichloroethene (T)

12.36min 0.46ug/L m

response 1503

Ion	Exp%	Act%
95.00	100	100
130.00	90.40	99.73
132.00	85.50	94.48
97.00	63.70	141.38#

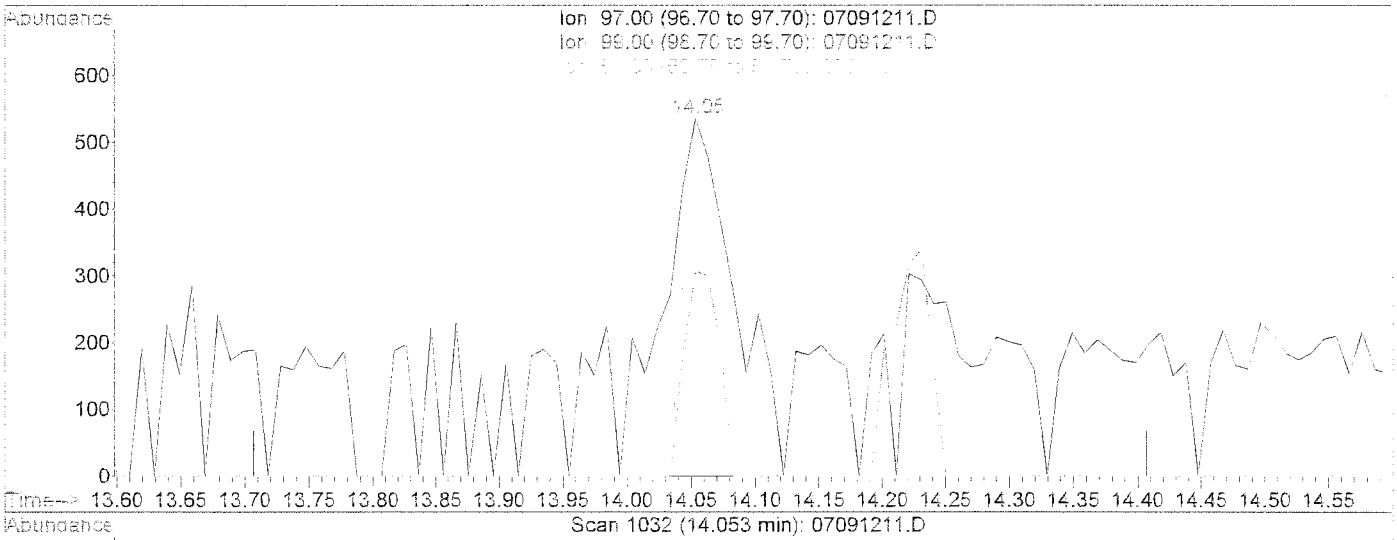
A

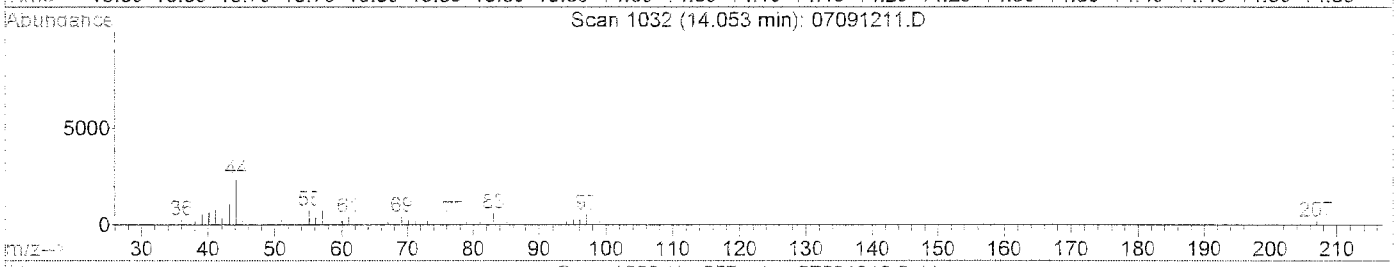
MM 7/11/12

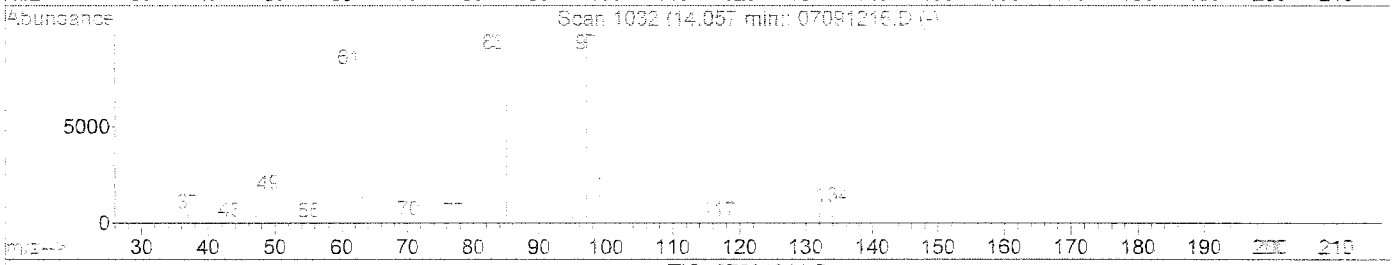
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:52 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091211.D

(47) 1,1,2-Trichloroethane (T)

14.05min 1.07ug/L

response 2074

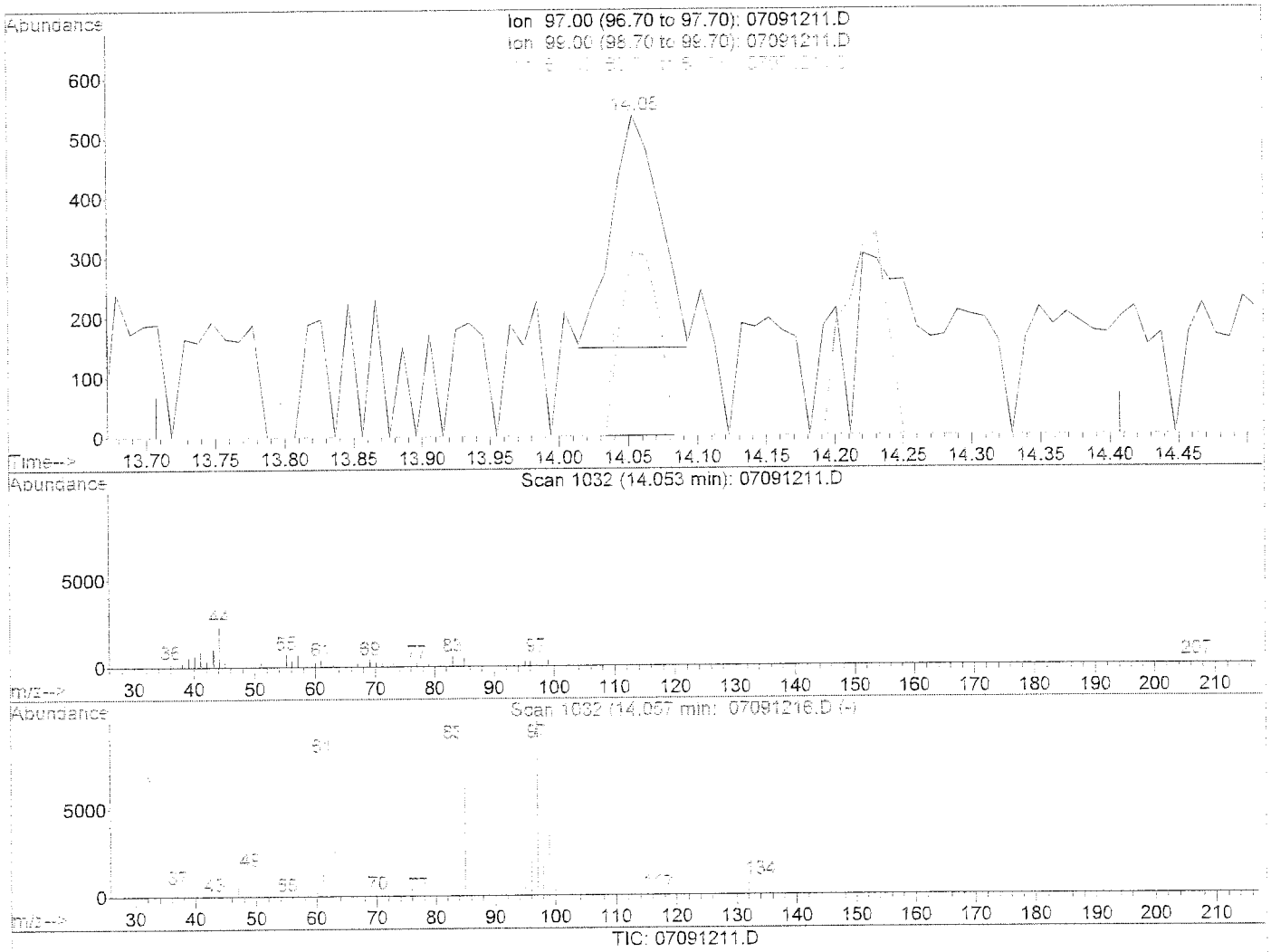
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	27.92#
61.05	77.30	33.85#
0.00	0.00	0.00

B
BL
MM 7/11/12
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:56 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.05min 0.48ug/L m

response 930

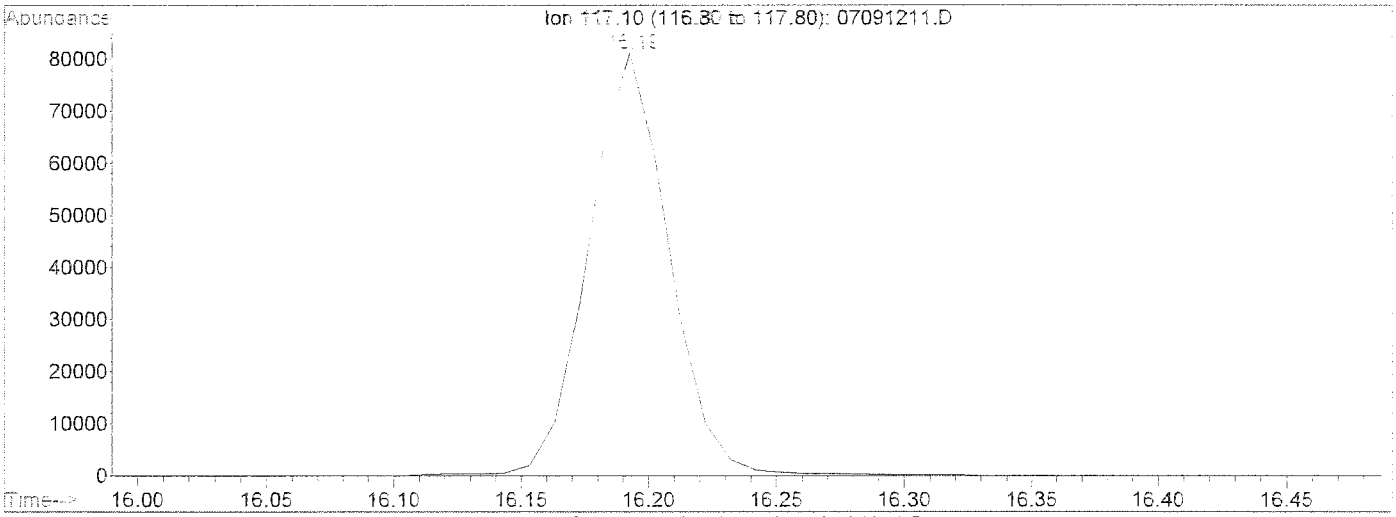
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	62.26
61.05	77.30	75.48
0.00	0.00	0.00

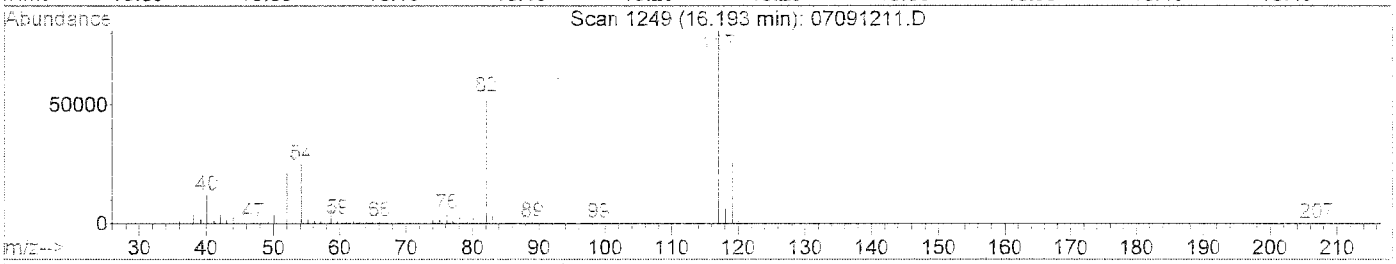
A MM 7/11/12

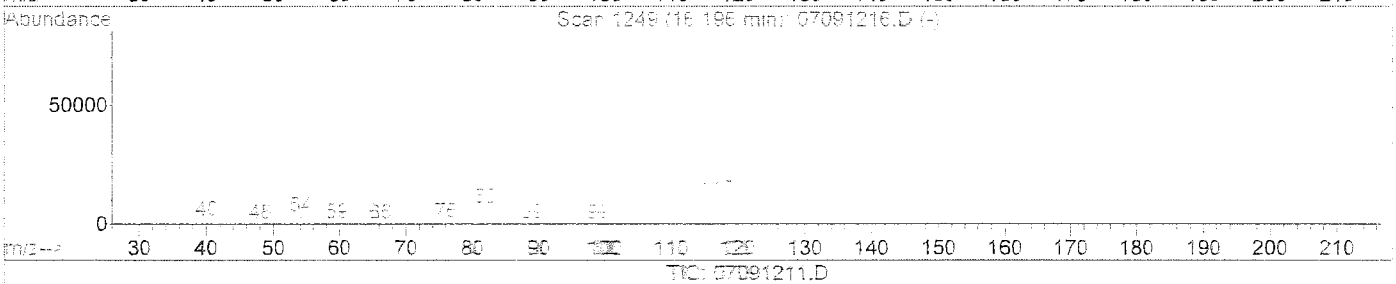
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091211.D

(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L

response 178232

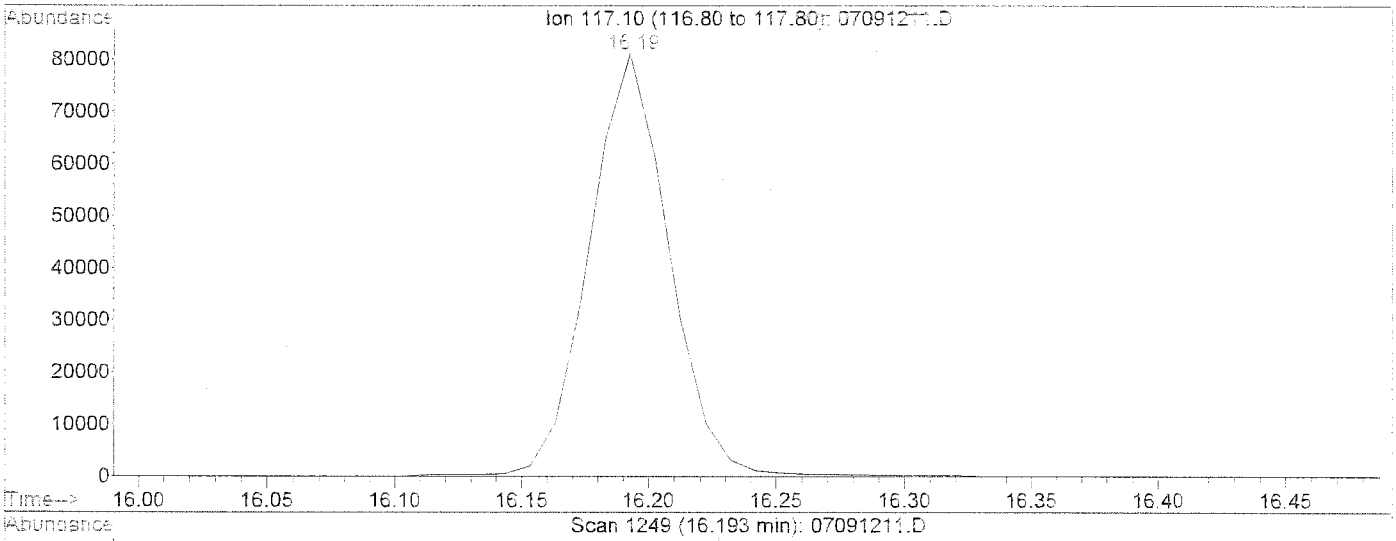
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

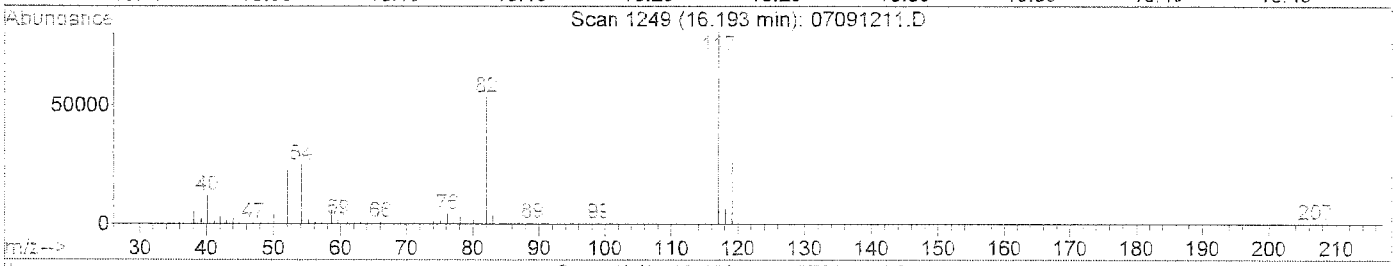
B
~~BE~~ CE
MM
7/11/12

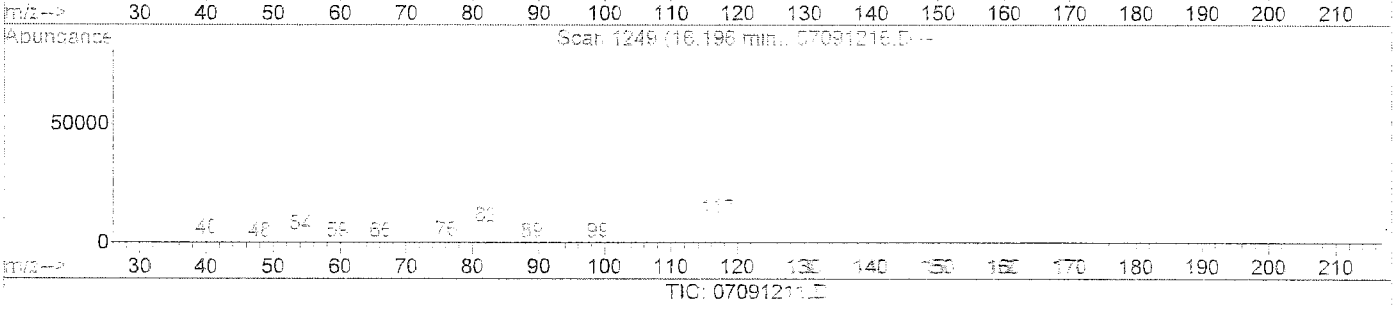
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L m

response 177317

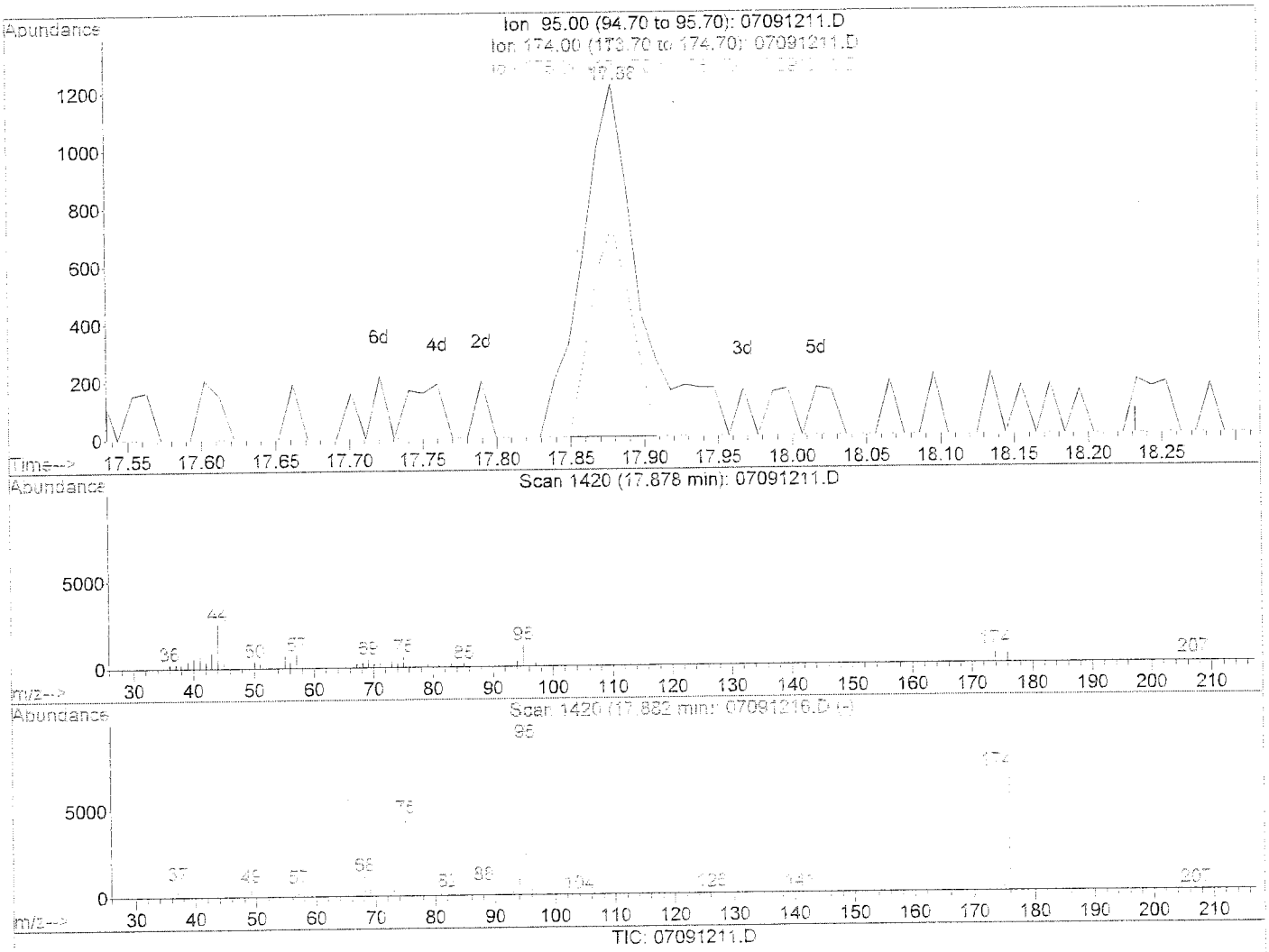
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(62) 4-Bromofluorobenzene (S)

17.88min 1.04ug/L

response 3309

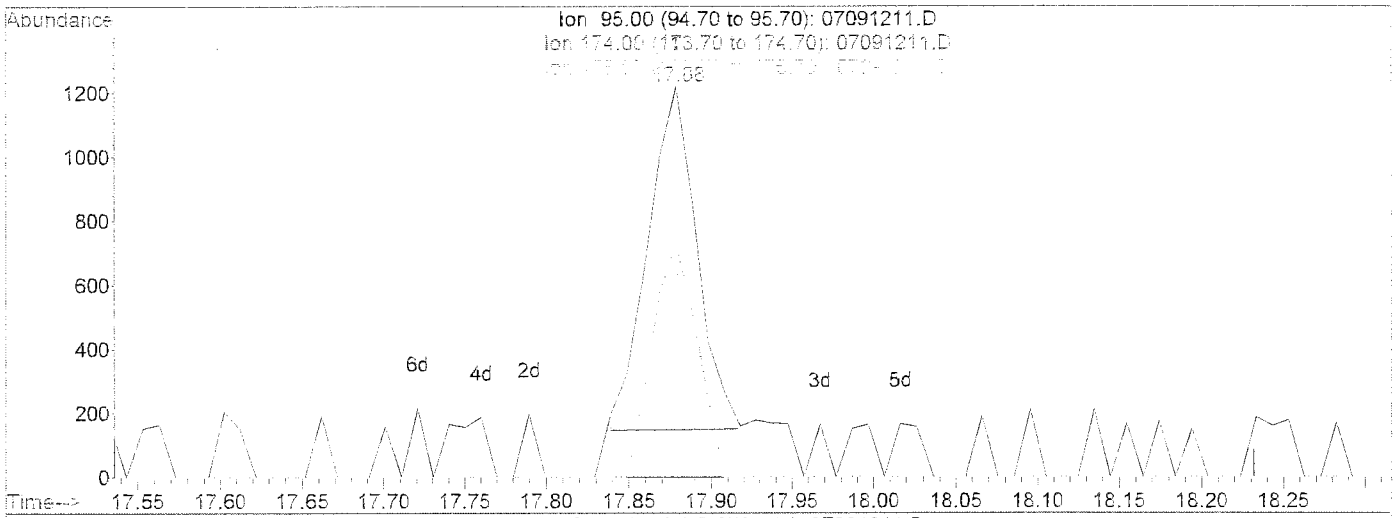
Ion	Exp%	Act%
95.00	100	100
174.00	65.90	41.61#
176.00	63.50	40.89#
0.00	0.00	0.00

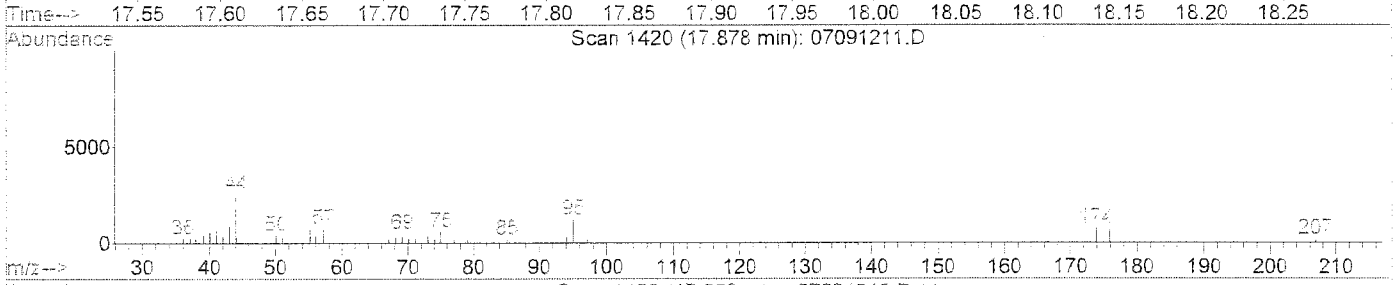
B
BL
MM 7/11/12
8/7/12

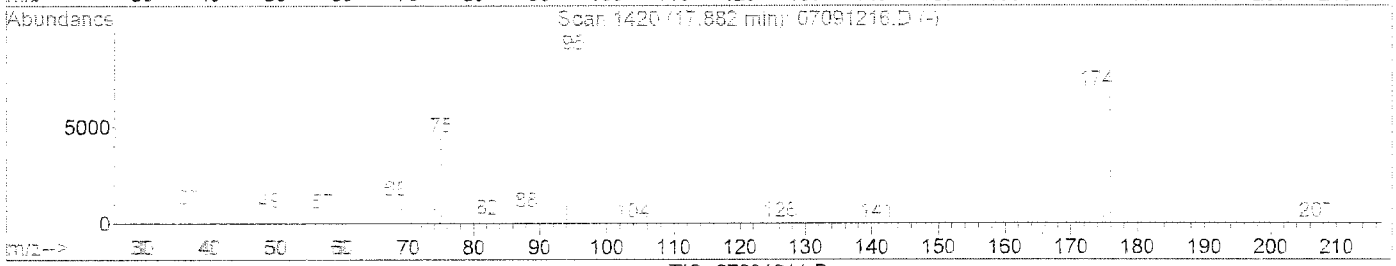
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091211.D

(62) 4-Bromofluorobenzene (S)

17.88min 0.69ug/L m

response 2188

Ion	Exp%	Act%
95.00	100	100
174.00	65.90	62.93
176.00	63.50	61.84
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:56 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	64169	200.00 ug/L	-0.01
4) Pentafluorobenzene	10.67	168	141731	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	244590	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	177317m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	66474	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	1172	0.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 1.96%	
48) Toluene-d8	14.22	98	6295	0.58 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.32%	
62) 4-Bromofluorobenzene	17.88	95	2188m	0.69 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.76%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.58	85	2765	0.60 ug/L	97
6) Chloromethane	4.85	50	4796	0.55 ug/L #	62
7) Vinyl Chloride	5.16	62	3877	0.52 ug/L #	80
8) 1,3-Butadiene	5.47	54	318	0.06 ug/L	87
9) Bromomethane	5.77	94	2262	0.75 ug/L #	72
10) Chloroethane	5.99	64	2787	0.63 ug/L #	61
11) Trichlorofluoromethane	6.82	101	1683	0.51 ug/L	96
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.61	142	1873	0.50 ug/L #	94
14) 1,1-Dichloroethene	7.55	96	1824m	0.51 ug/L	
15) Methylene Chloride	7.75	84	2355	0.33 ug/L	93
16) Freon 113	7.82	101	1777	0.54 ug/L	97
17) Carbon disulfide	8.08	76	7687	0.54 ug/L #	1
18) trans-1,2-Dichloroethene	8.65	96	3175	0.49 ug/L #	57
19) MTBE	8.79	73	5232	0.64 ug/L	94
20) 1,1-Dichloroethane	8.98	63	4308	0.51 ug/L #	86
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	0.00	86	0	N.D. d	
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	9.54	45	10232	0.53 ug/L	94
25) cis-1,2-Dichloroethene	9.73	96	2522	0.47 ug/L #	71
26) Bromochloromethane	9.95	128	555	0.47 ug/L	78
27) Chloroform	10.00	83	2890	0.53 ug/L #	51
28) 2,2-Dichloropropane	10.11	77	3074	0.43 ug/L #	91
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	6290	0.51 ug/L #	87
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.86	62	1696	0.49 ug/L	91
33) 1,1,1-Trichloroethane	11.00	97	4043	0.57 ug/L #	58
34) (TAME) tert-Amyl methyl et	11.71	73	5232	0.57 ug/L #	90
36) 1,1-Dichloropropene	11.23	75	3474	0.55 ug/L	95
37) Carbon Tetrachloride	11.47	117	1497	0.52 ug/L #	93
38) Benzene	11.53	78	8434m	0.51 ug/L	
39) Dibromomethane	12.27	93	830	0.58 ug/L #	34
40) 1,2-Dichloropropane	12.31	63	2149	0.49 ug/L #	92

(#) = qualifier out of range (m) = manual integration
07091211.D 070912.M Wed Jul 11 06:56:12 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:56 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	12.36	95	1503m	0.46 ug/L		
42)	Bromodichloromethane	12.42	83	1970	0.53 ug/L	#	67
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d		
44)	cis-1,3-Dichloropropene	13.26	75	2906	0.52 ug/L	#	67
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d		
46)	trans-1,3-Dichloropropene	13.84	75	2057	0.49 ug/L	#	59
47)	1,1,2-Trichloroethane	14.05	97	930m	0.48 ug/L		
49)	Toluene	14.32	92	4486	0.52 ug/L		89
51)	1,3-Dichloropropane	14.38	76	2214	0.52 ug/L	#	69
52)	2-Hexanone	0.00	43	0	N.D. d		
53)	Dibromochloromethane	14.75	129	931	0.51 ug/L		91
54)	1,2-Dibromoethane	15.10	107	839	0.48 ug/L		87
55)	Tetrachloroethene	15.32	164	1170	0.52 ug/L		92
56)	1,1,1,2-Tetrachloroethane	16.12	131	976	0.49 ug/L	#	1
57)	Chlorobenzene	16.24	112	3649	0.51 ug/L	#	39
58)	Ethylbenzene	16.50	91	8308	0.55 ug/L		95
59)	m,p-Xylenes	16.76	106	2855	0.53 ug/L		94
60)	Styrene	17.21	104	3808	0.51 ug/L	#	87
61)	o-Xylene	17.31	106	2503	0.52 ug/L		90
64)	Bromoform	0.00	173	0	N.D. d		
65)	1,1,2,2-Tetrachloroethane	17.30	83	1601	0.58 ug/L	#	47
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	17.82	105	6703	0.54 ug/L		96
69)	Bromobenzene	18.18	156	1013	0.45 ug/L	#	37
70)	n-Propylbenzene	18.43	91	9224	0.53 ug/L		99
71)	2-Chlorotoluene	18.58	91	4956	0.53 ug/L		93
72)	4-Chlorotoluene	18.68	91	4821	0.54 ug/L		95
73)	1,3,5-Trimethylbenzene	18.82	105	4908	0.52 ug/L		98
74)	tert-Butylbenzene	19.20	119	4199	0.52 ug/L		94
75)	1,2,4-Trimethylbenzene	19.35	105	4830	0.53 ug/L		97
76)	sec-Butylbenzene	19.49	105	7595	0.54 ug/L		96
77)	1,3-Dichlorobenzene	19.59	146	2061	0.47 ug/L	#	82
78)	1,4-Dichlorobenzene	19.68	146	2035	0.48 ug/L	#	57
79)	p-Isopropyltoluene	19.71	119	5359	0.54 ug/L		95
80)	1,2-Dichlorobenzene	20.12	146	1785	0.51 ug/L	#	91
81)	n-Butylbenzene	20.21	91	5960	0.54 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	22.44	180	738	0.46 ug/L	#	84
84)	Napthalene	0.00	128	0	N.D. d		
85)	Hexachlorobutadiene	22.84	225	478	0.29 ug/L	#	64
86)	1,2,3-Trichlorobenzene	23.06	180	551	0.45 ug/L	#	81

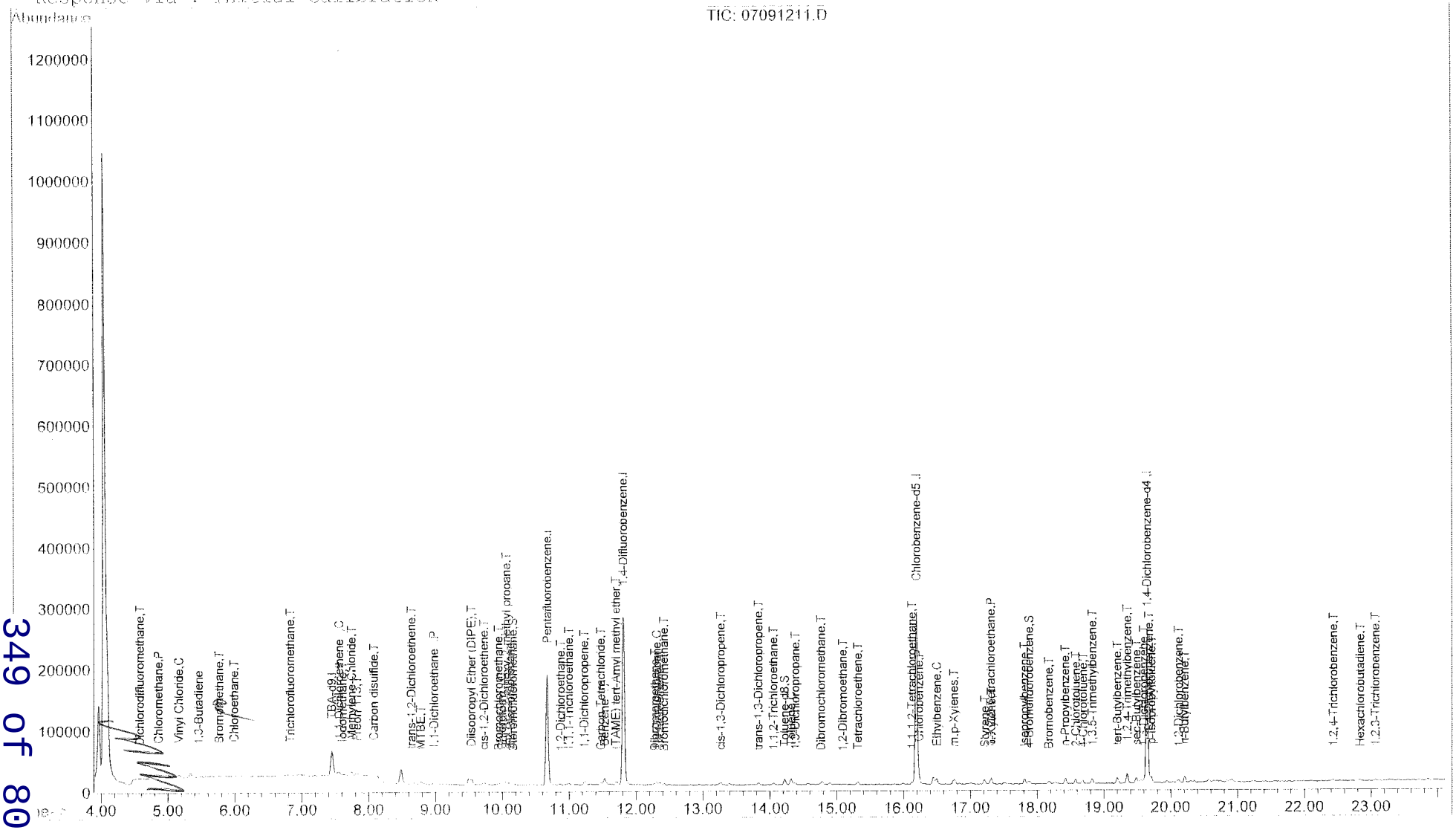
MM

(#) = qualifier out of range (m) = manual integration
07091211.D 070912.M Wed Jul 11 06:56:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091211.D Vial: 5
Acq On : 9 Jul 2012 10:58 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:56 2012 Quant Results File: 070912.RES

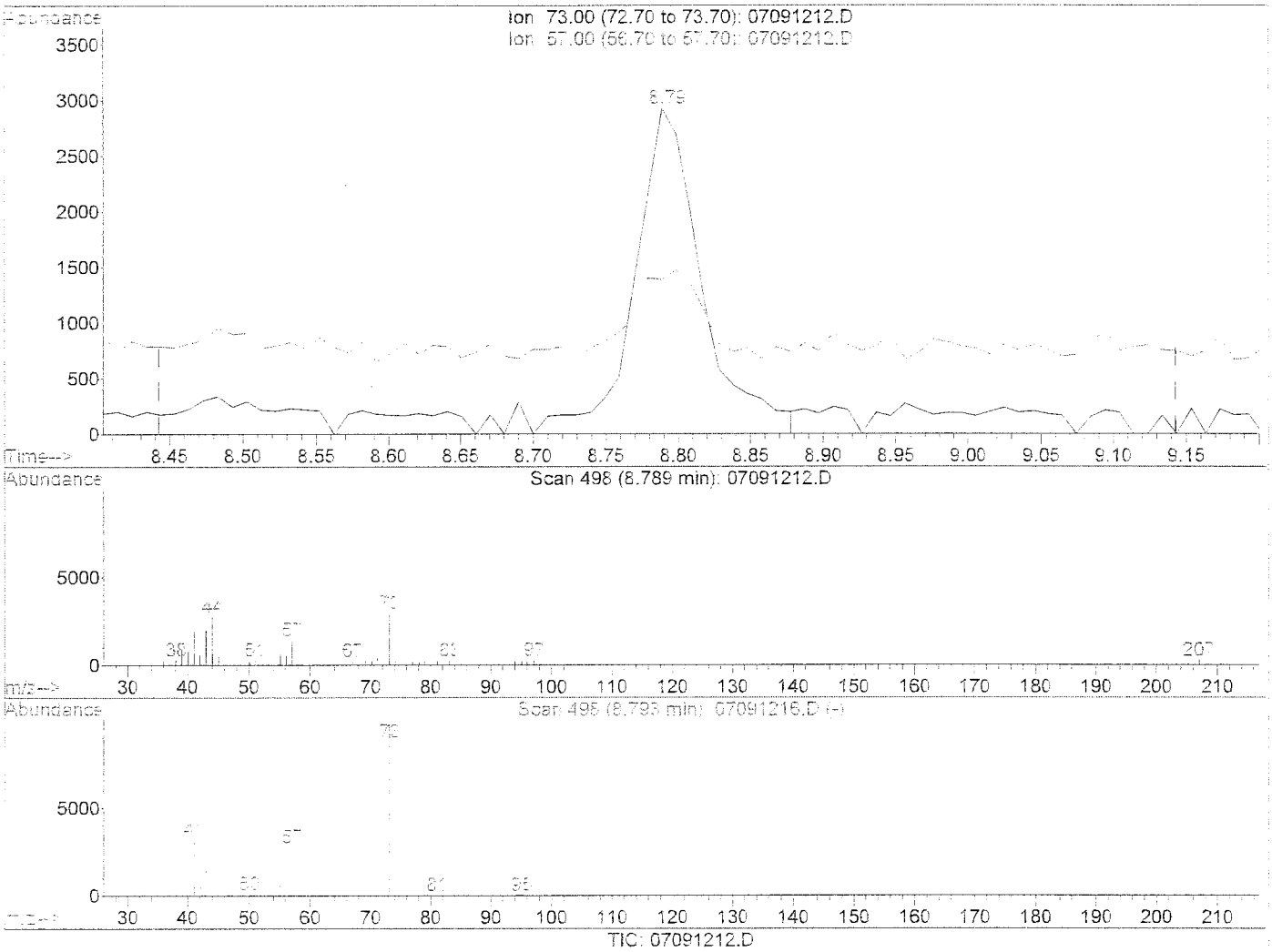
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:57 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(19) MTBE (T)

8.79min 1.19ug/L

response 9380

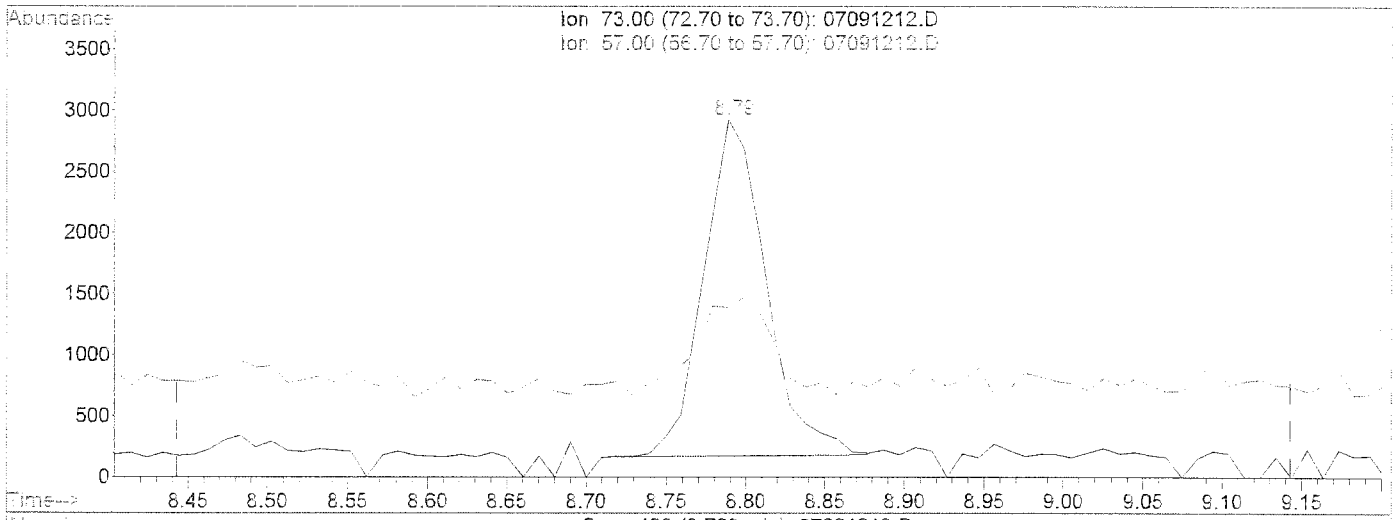
Ion	Exp%	Act%
73.00	100	100
57.00	28.40	28.84
0.00	0.00	0.00
0.00	0.00	0.00

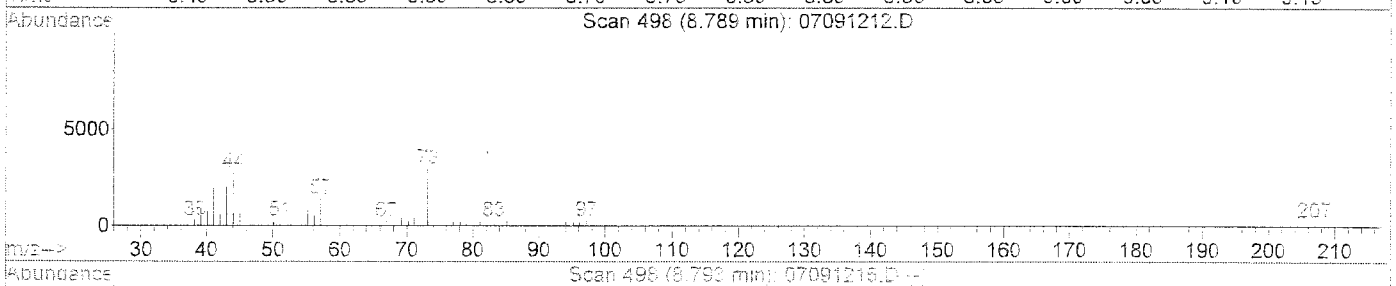
B
BL
MM
7/11/12

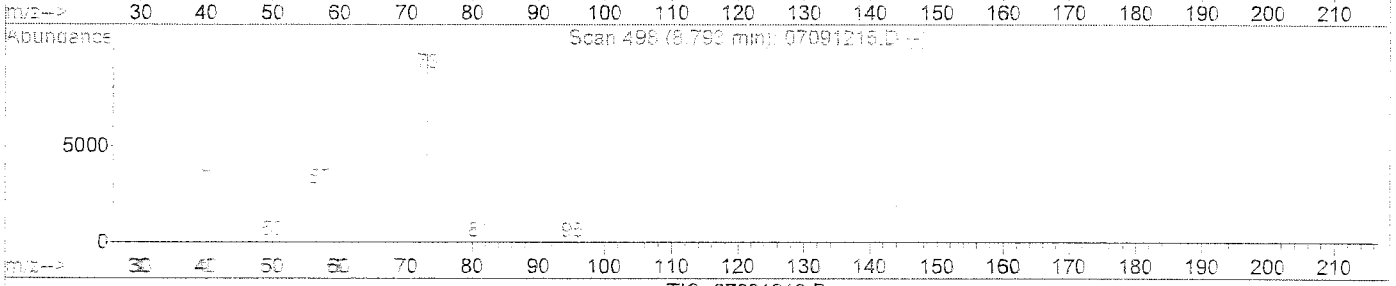
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091212.D

(19) MTBE (T)

8.79min 0.95ug/L m

response 7548

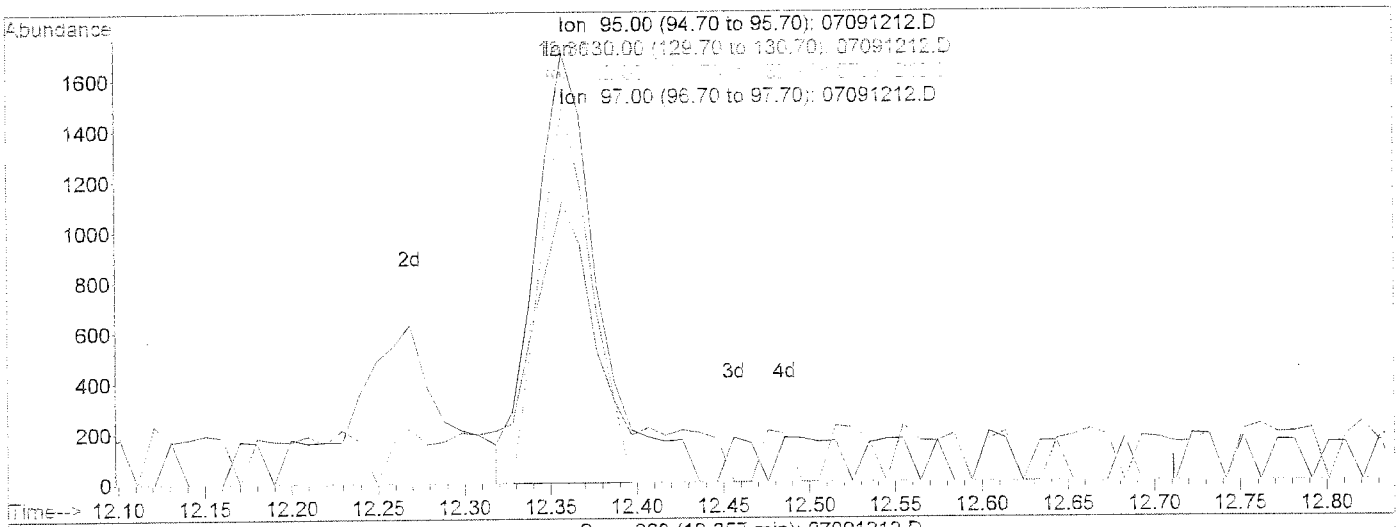
Ion	Exp%	Act%
73.00	100	100
57.00	28.40	35.84#
0.00	0.00	0.00
0.00	0.00	0.00

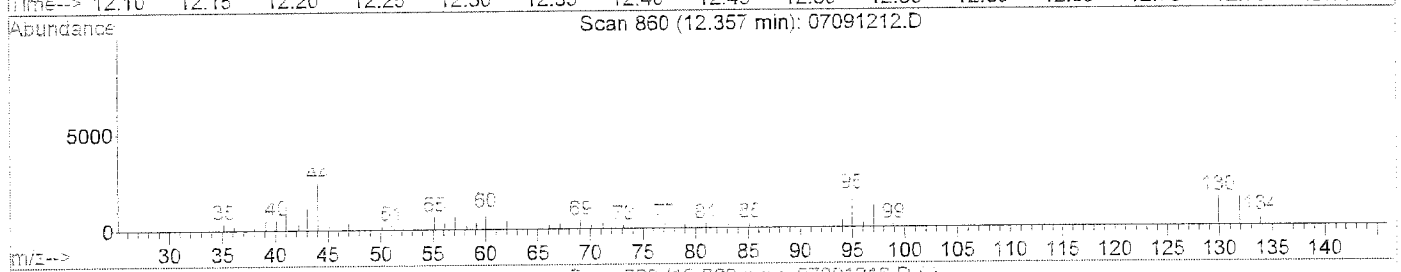
A
MM
7/11/12

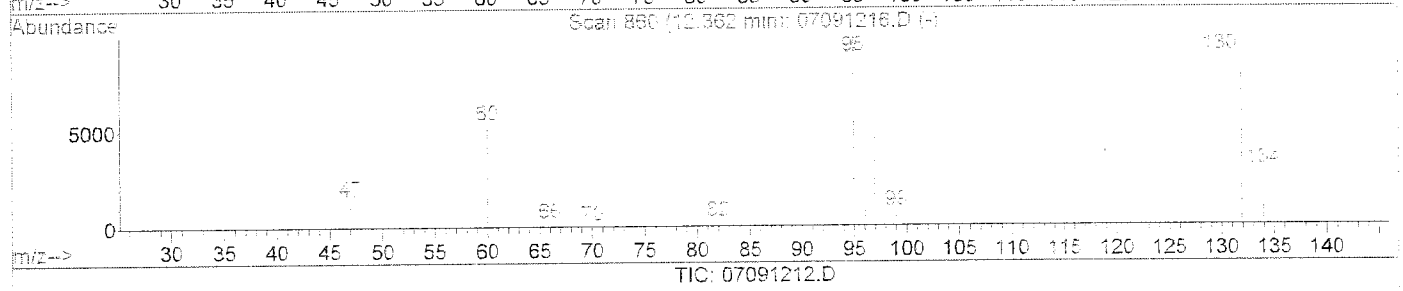
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091212.D

(41) Trichloroethene (T)

12.36min 1.36ug/L

response 4340

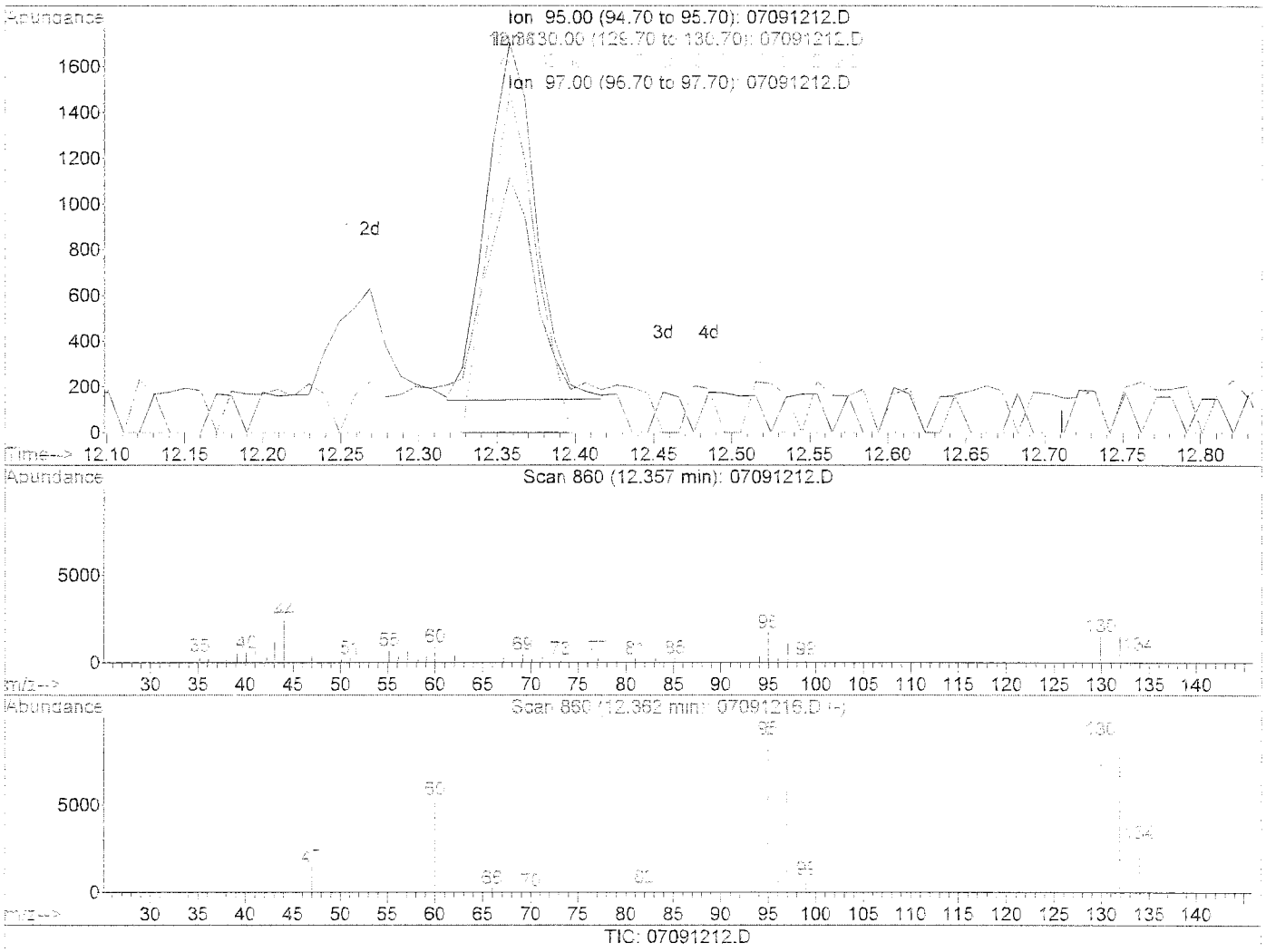
Ion	Exp%	Act%
95.00	100	100
130.00	90.40	71.04#
132.00	85.50	71.34
97.00	63.70	85.88#

B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(41) Trichloroethene (T)

12.36min 1.06ug/L m

response 3394

Ion	Exp%	Act%
95.00	100	100
130.00	90.40	90.84
132.00	85.50	91.22
97.00	63.70	109.81#

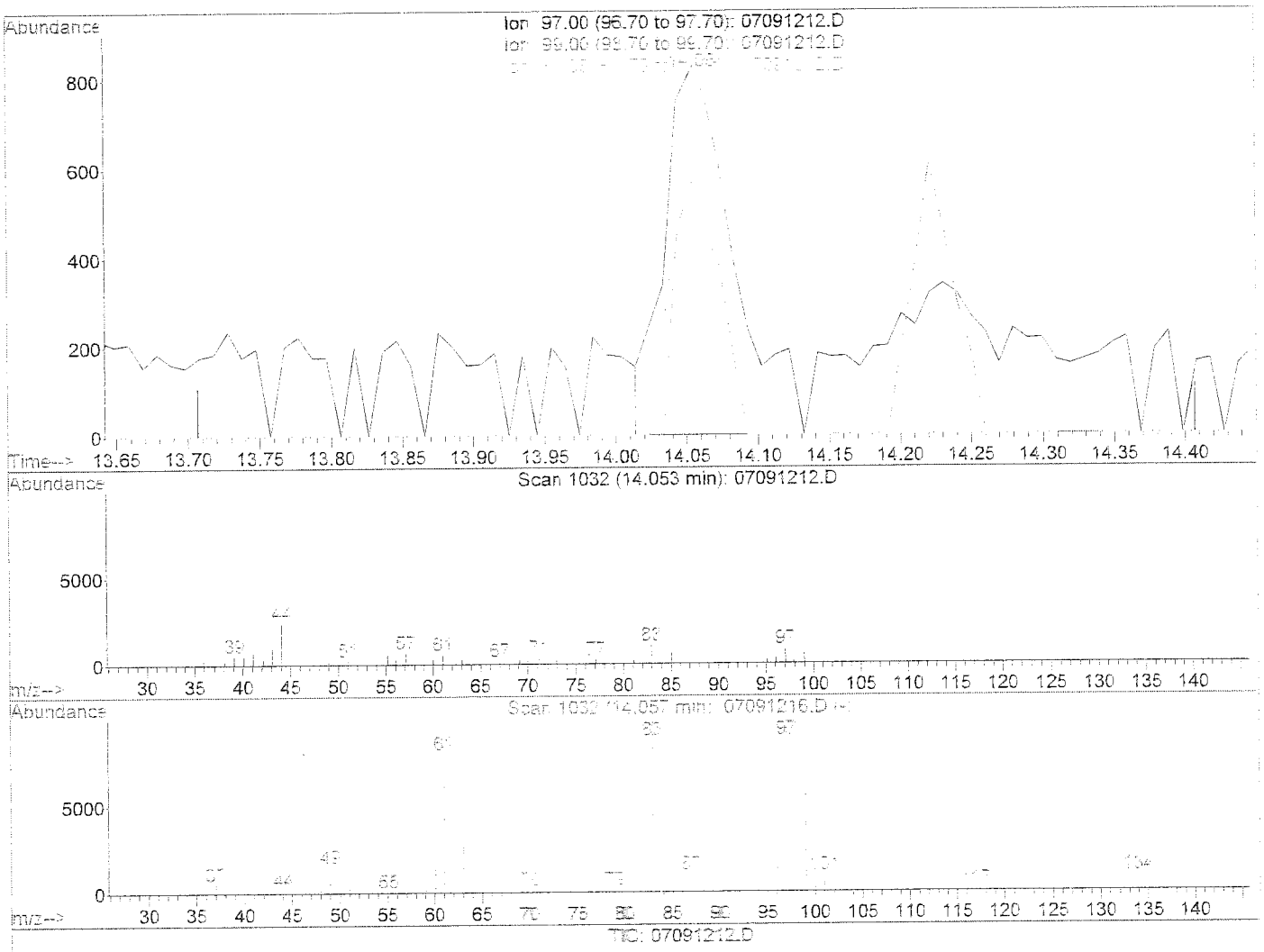
A

MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.05min 1.46ug/L

response 2767

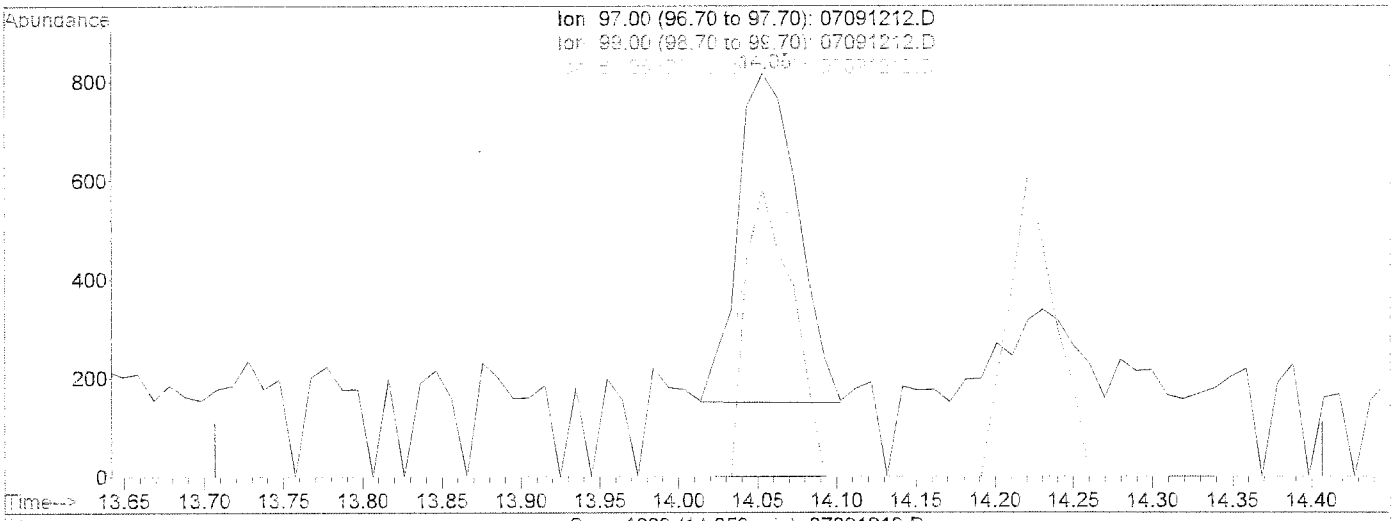
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	43.55#
61.05	77.30	54.72#
0.00	0.00	0.00

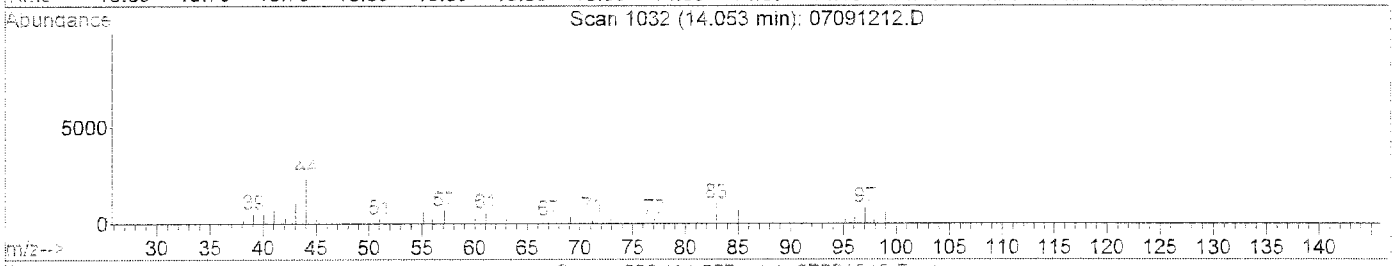
B
B2
MM
7/11/12

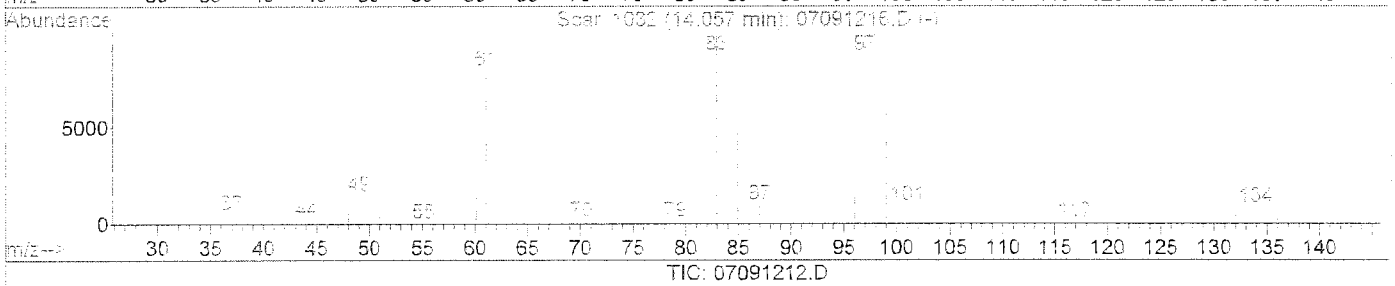
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091212.D

(47) 1,1,2-Trichloroethane (T)

14.05min 0.92ug/L m

response 1750

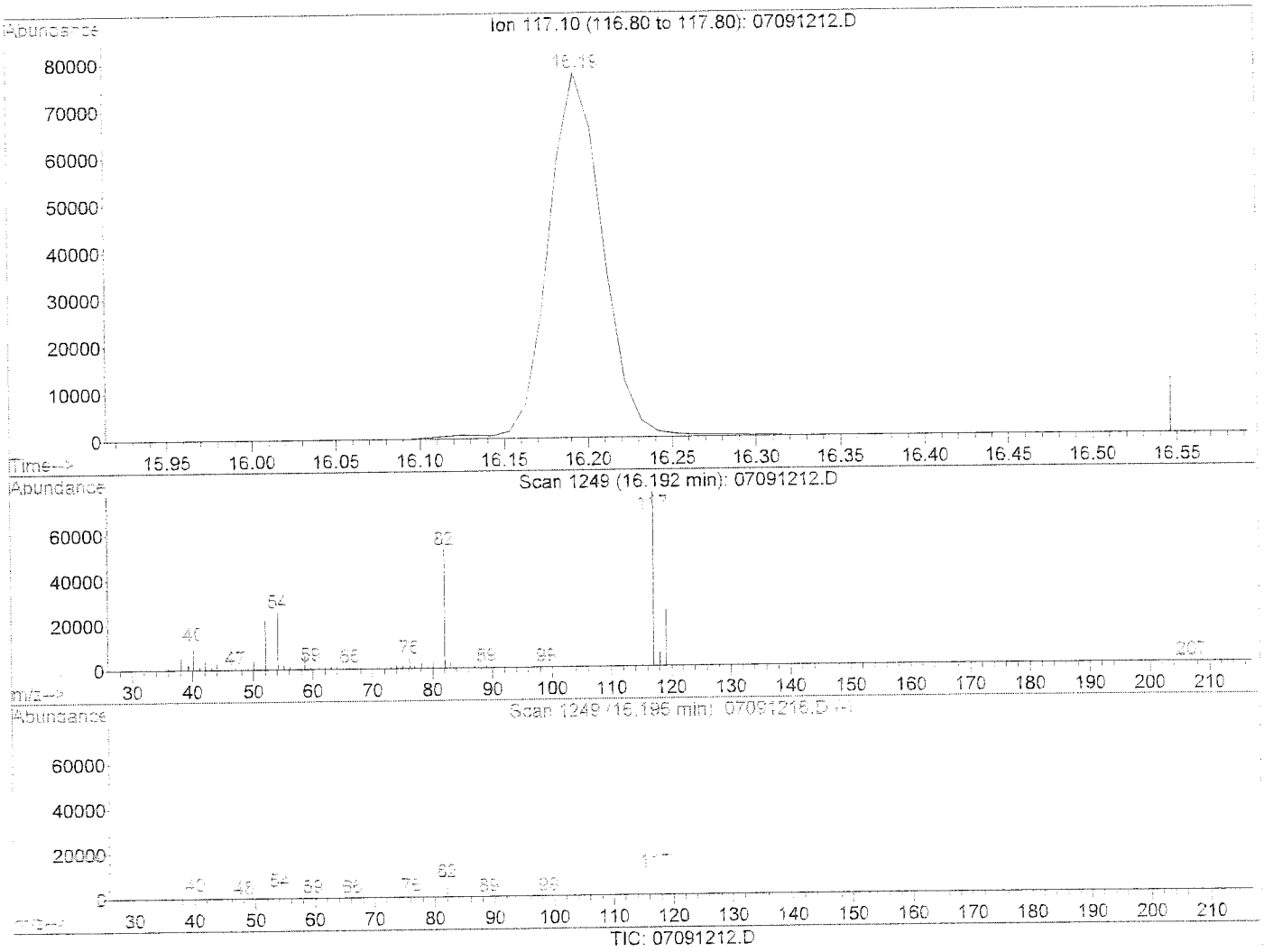
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	68.86
61.05	77.30	86.51
0.00	0.00	0.00

A
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:58 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L

response 174471

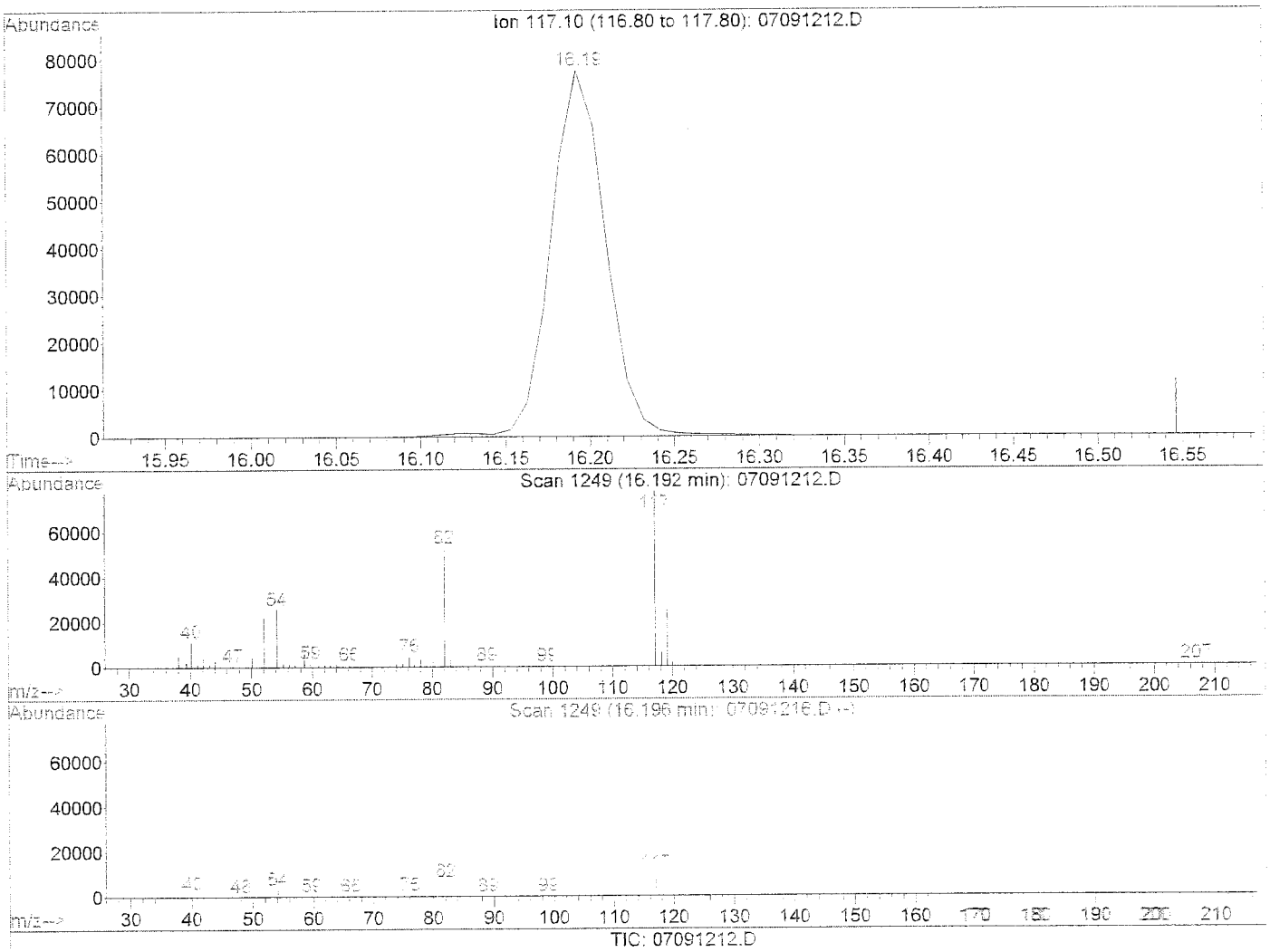
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

B
CE
MM 7/11/12
Chl

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:59 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

16.19min 25.00ug/L m

response 172021

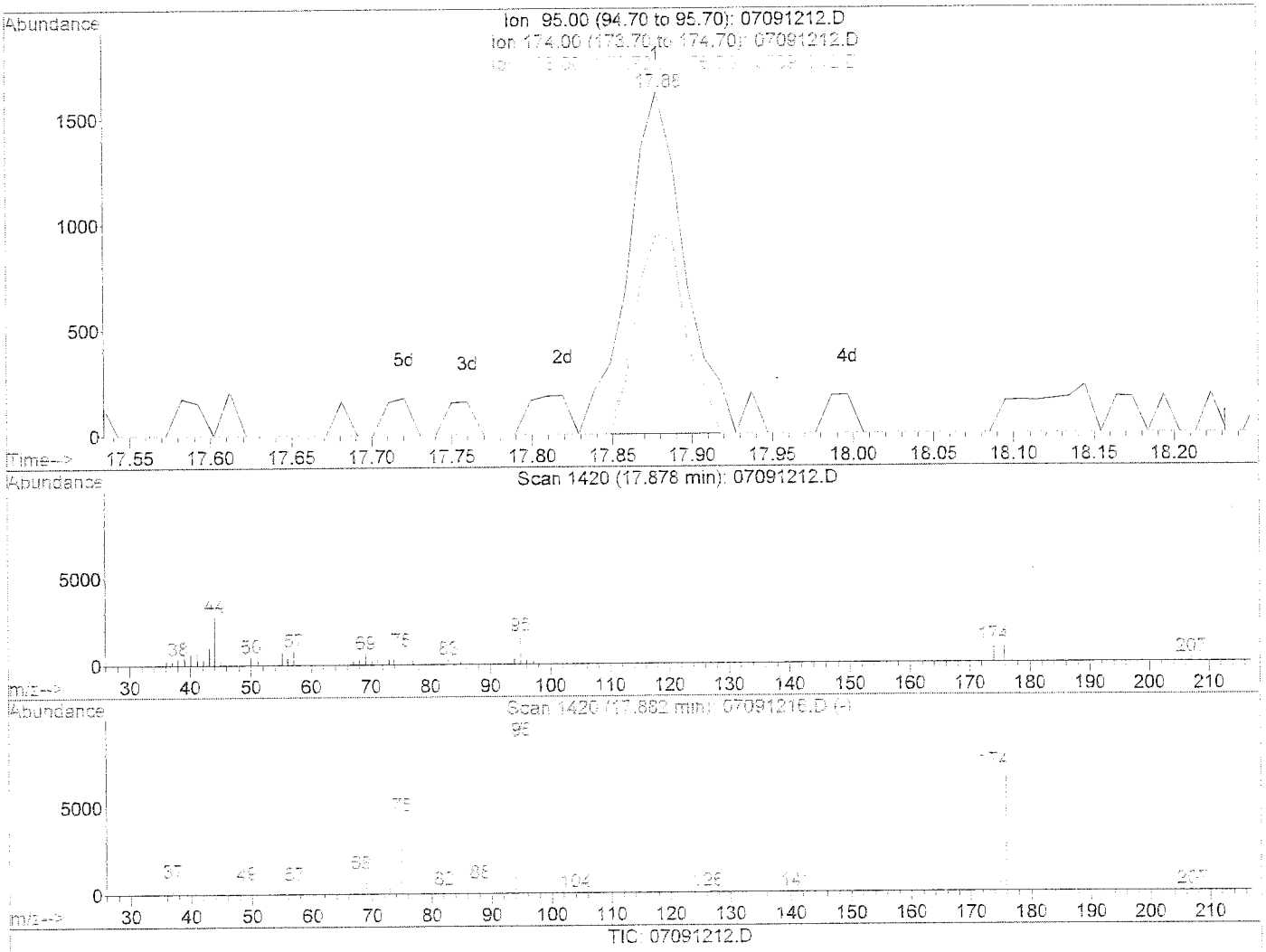
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:59 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(62) 4-Bromofluorobenzene (S)

17.88min 1.34ug/L

response 4112

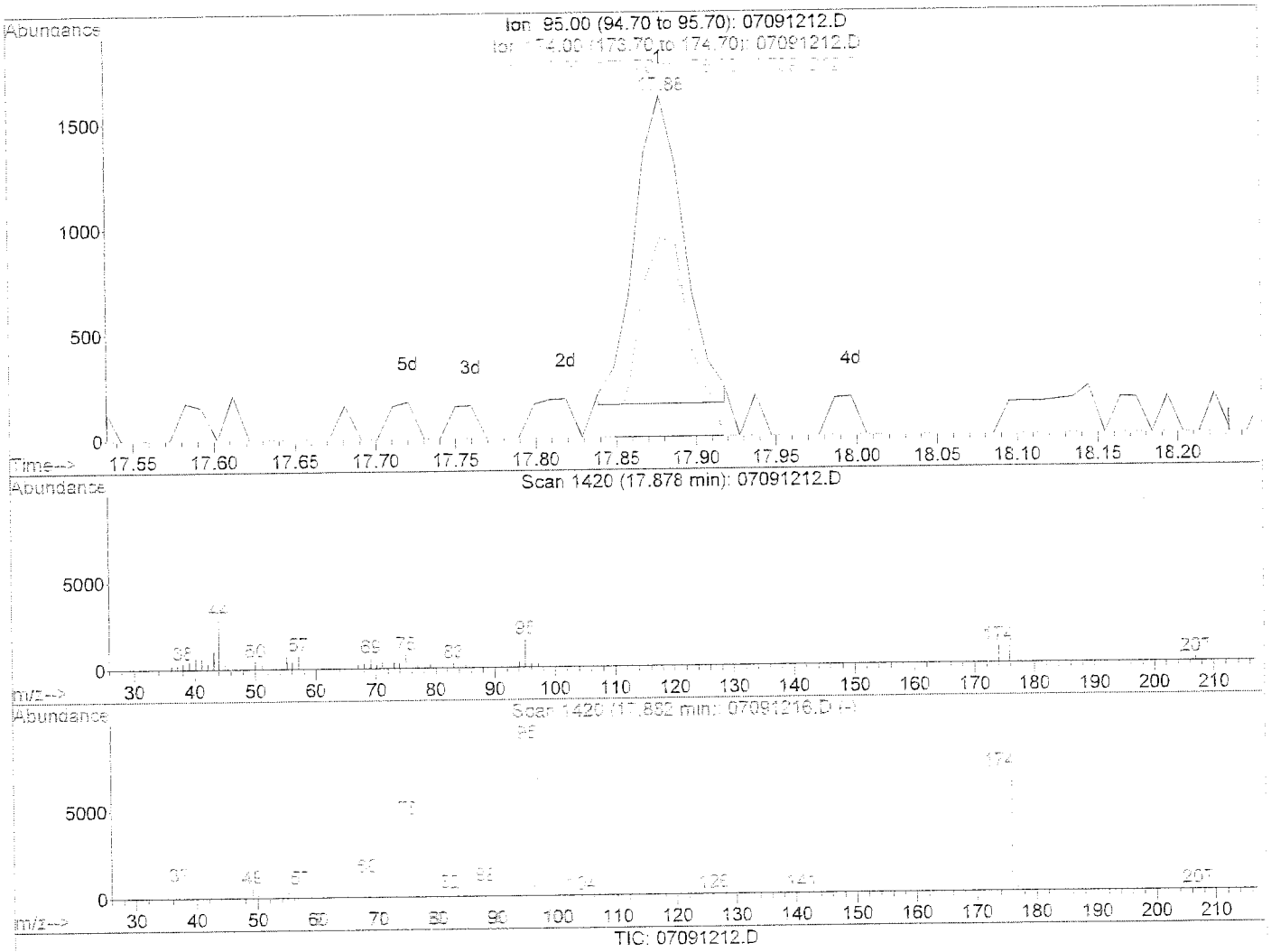
Ion	Exp%	Act%
95.00	100	100
174.00	65.90	50.00#
176.00	63.50	48.10#
0.00	0.00	0.00

B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:59 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(62) 4-Bromofluorobenzene (S)

17.88min 1.02ug/L m

response 3140

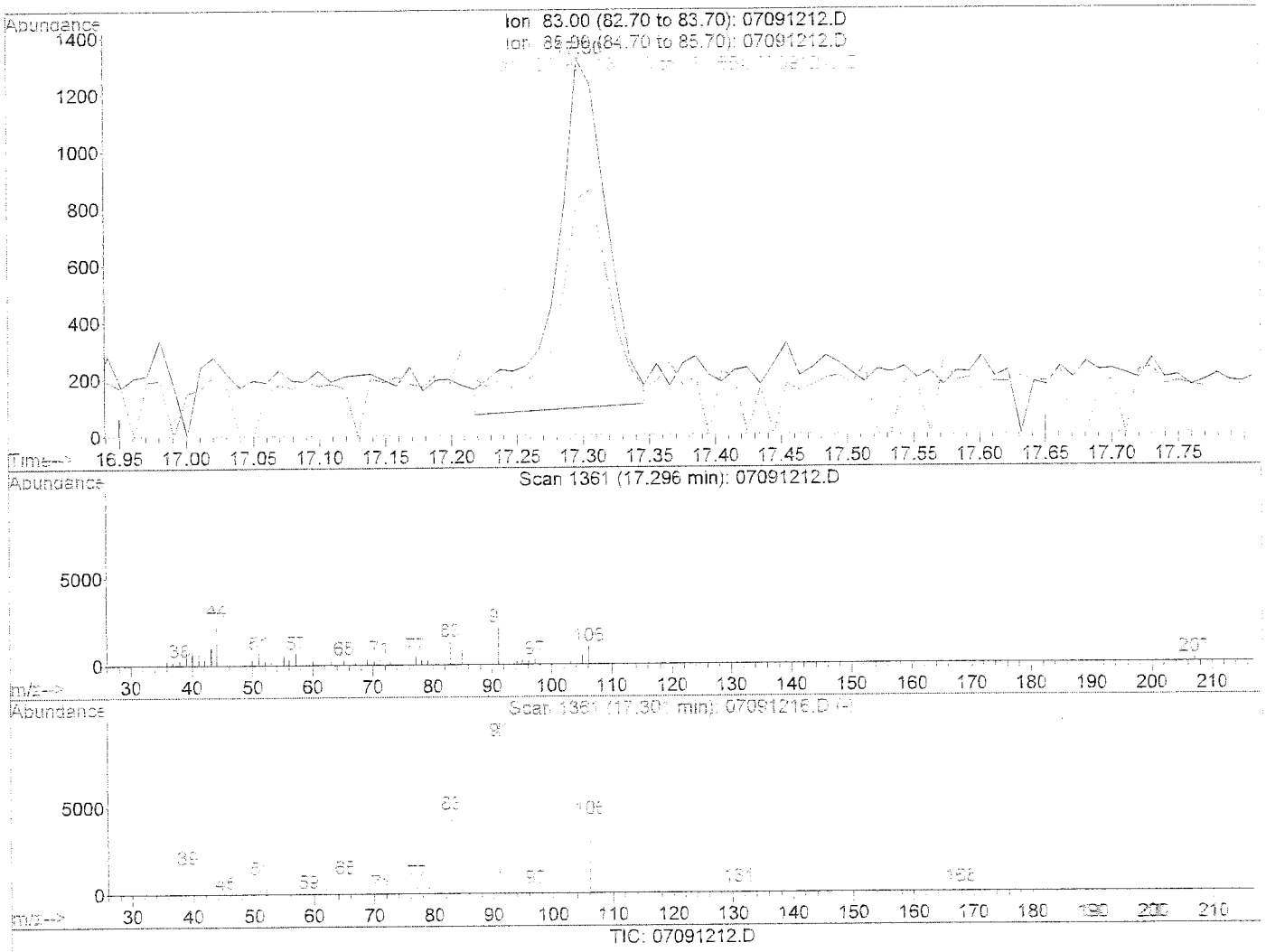
Ion	Exp%	Act%
95.00	100	100
174.00	65.90	65.48
176.00	63.50	62.99
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 6:59 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(65) 1,1,2,2-Tetrachloroethane (P)

17.30min 1.28ug/L

response 3352

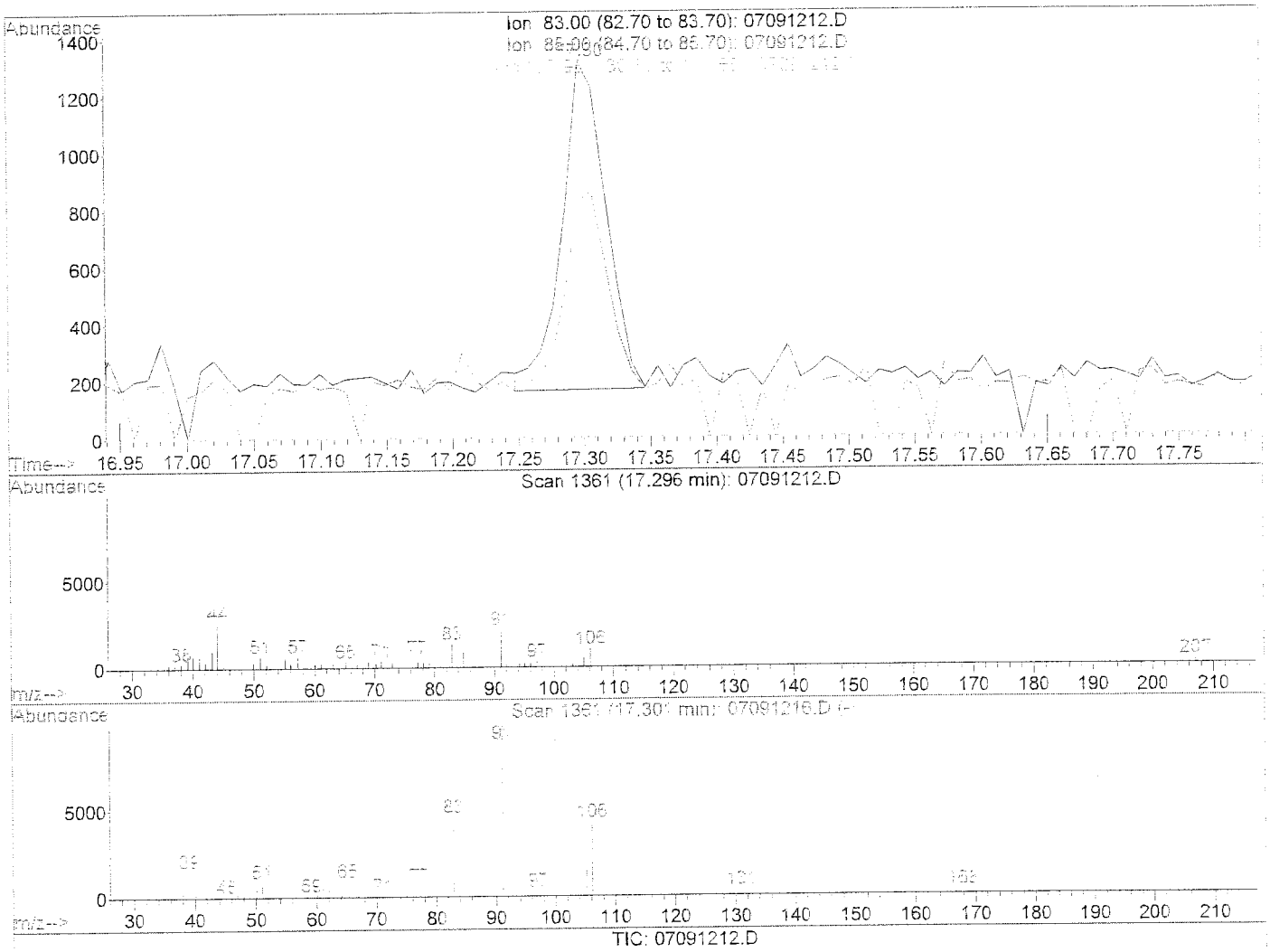
Ion	Exp%	Act%
83.00	100	100
85.00	66.30	61.99
130.95	6.50	0.00#
0.00	0.00	0.00

B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:00 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(65) 1,1,2,2-Tetrachloroethane (P)

17.30min 1.02ug/L m

response 2678

Ion	Exp%	Act%
83.00	100	100
85.00	66.30	77.60
130.95	6.50	0.00#
0.00	0.00	0.00

A
MM 7/11/12
7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:01 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	57489	200.00 ug/L	-0.01
4) Pentafluorobenzene	10.67	168	137913	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	238780	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	172021m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	63200	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	2209	0.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.80%	
48) Toluene-d8	14.22	98	9894	0.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.76%	
62) 4-Bromofluorobenzene	17.88	95	3140m	1.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.08%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.57	85	5361	1.19 ug/L	93
6) Chloromethane	4.86	50	8724	1.03 ug/L	82
7) Vinyl Chloride	5.17	62	7995	1.11 ug/L	94
8) 1,3-Butadiene	5.34	54	6187	1.13 ug/L	95
9) Bromomethane	5.77	94	3209	1.09 ug/L #	50
10) Chloroethane	5.99	64	4771	1.10 ug/L #	73
11) Trichlorofluoromethane	6.82	101	3147	0.98 ug/L	96
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.62	142	3804	1.03 ug/L	96
14) 1,1-Dichloroethene	7.56	96	3913	1.13 ug/L	85
15) Methylene Chloride	7.74	84	6190	1.48 ug/L	94
16) Freon 113	7.82	101	3395	1.05 ug/L	95
17) Carbon disulfide	8.08	76	14772	1.06 ug/L #	1
18) trans-1,2-Dichloroethene	8.65	96	4724	0.94 ug/L	81
19) MTBE	8.79	73	7548m	0.95 ug/L	
20) 1,1-Dichloroethane	8.99	63	8613	1.04 ug/L	91
21) Vinyl Acetate	9.14	43	9284	1.06 ug/L #	95
22) n-Hexane	9.50	86	1951	1.45 ug/L	76
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	9.54	45	19595	1.05 ug/L #	36
25) cis-1,2-Dichloroethene	9.74	96	4675	1.11 ug/L #	74
26) Bromochloromethane	9.94	128	1106	0.96 ug/L	79
27) Chloroform	10.00	83	5850	1.09 ug/L #	82
28) 2,2-Dichloropropane	10.12	77	5728	1.09 ug/L #	89
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	12642	1.05 ug/L #	89
31) Tetrahydrofuran	10.44	72	694	1.94 ug/L	90
32) 1,2-Dichloroethane	10.86	62	3572	1.06 ug/L	96
33) 1,1,1-Trichloroethane	11.00	97	5649	1.06 ug/L #	86
34) (TAME) tert-Amyl methyl et	11.71	73	10064	1.12 ug/L	96
36) 1,1-Dichloropropene	11.23	75	6559	1.06 ug/L	94
37) Carbon Tetrachloride	11.48	117	2885	1.03 ug/L #	91
38) Benzene	11.53	78	17686	1.10 ug/L	98
39) Dibromomethane	12.27	93	1395	1.00 ug/L #	56
40) 1,2-Dichloropropane	12.31	63	4835	1.13 ug/L #	87

(#) = qualifier out of range (m) = manual integration
07091212.D 070912.M Wed Jul 11 07:01:21 2012

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:01 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

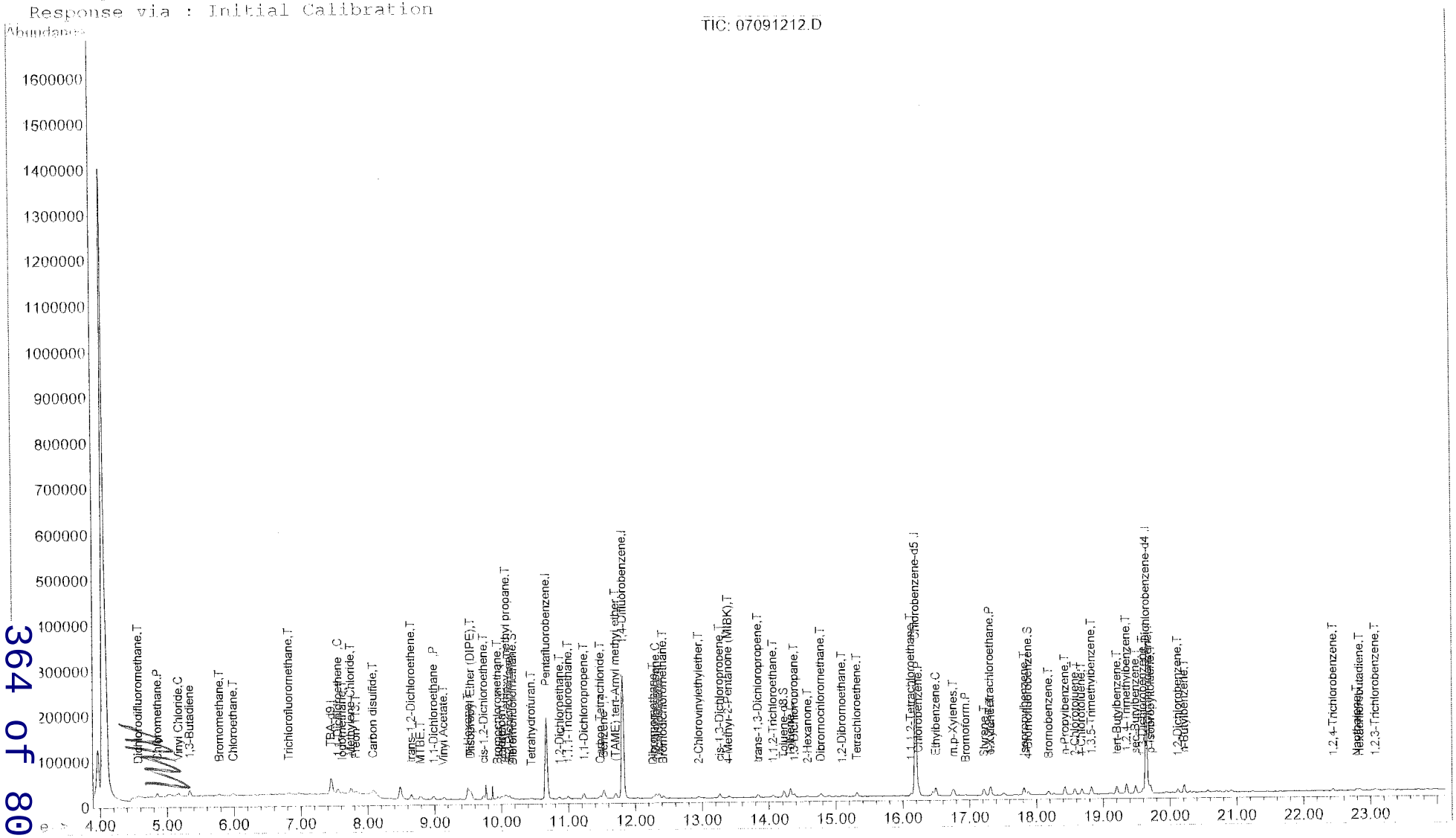
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	12.36	95	3394m	1.06 ug/L		
42)	Bromodichloromethane	12.42	83	4151	1.15 ug/L	#	82
43)	2-Chlorovinylethylether	12.94	63	1743	1.05 ug/L	#	63
44)	cis-1,3-Dichloropropene	13.26	75	5619	1.03 ug/L	#	87
45)	4-Methyl-2-Pentanone (MIBK	13.40	43	4572	1.14 ug/L		97
46)	trans-1,3-Dichloropropene	13.83	75	4193	1.03 ug/L	#	92
47)	1,1,2-Trichloroethane	14.05	97	1750m	0.92 ug/L		
49)	Toluene	14.32	92	9155	1.08 ug/L	#	95
51)	1,3-Dichloropropane	14.38	76	4204	1.01 ug/L	#	83
52)	2-Hexanone	14.58	43	2889	1.00 ug/L	#	95
53)	Dibromochloromethane	14.76	129	1736	0.98 ug/L		91
54)	1,2-Dibromoethane	15.10	107	1734	1.01 ug/L		86
55)	Tetrachloroethene	15.31	164	2232	1.03 ug/L		92
56)	1,1,1,2-Tetrachloroethane	16.13	131	2139	1.11 ug/L		91
57)	Chlorobenzene	16.24	112	7394	1.07 ug/L	#	67
58)	Ethylbenzene	16.50	91	15906	1.08 ug/L		99
59)	m,p-Xylenes	16.75	106	5674	1.09 ug/L		98
60)	Styrene	17.22	104	7799	1.07 ug/L	#	85
61)	o-Xylene	17.32	106	5137	1.11 ug/L		94
64)	Bromoform	16.94	173	889	0.92 ug/L	#	66
65)	1,1,2,2-Tetrachloroethane	17.30	83	2678m	1.02 ug/L		
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	17.82	105	12322	1.04 ug/L		99
69)	Bromobenzene	18.18	156	2131	1.00 ug/L		91
70)	n-Propylbenzene	18.43	91	17552	1.05 ug/L		99
71)	2-Chlorotoluene	18.58	91	9526	1.08 ug/L		97
72)	4-Chlorotoluene	18.68	91	8907	1.05 ug/L		100
73)	1,3,5-Trimethylbenzene	18.82	105	9834	1.09 ug/L		97
74)	tert-Butylbenzene	19.21	119	8521	1.10 ug/L		99
75)	1,2,4-Trimethylbenzene	19.35	105	9471	1.09 ug/L		99
76)	sec-Butylbenzene	19.49	105	14668	1.10 ug/L		98
77)	1,3-Dichlorobenzene	19.59	146	4423	1.07 ug/L	#	90
78)	1,4-Dichlorobenzene	19.68	146	4329	1.08 ug/L	#	82
79)	p-Isopropyltoluene	19.71	119	10202	1.07 ug/L		98
80)	1,2-Dichlorobenzene	20.12	146	3382	1.02 ug/L	#	87
81)	n-Butylbenzene	20.21	91	11486	1.10 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	22.44	180	1504	0.99 ug/L	#	85
84)	Napthalene	22.80	128	3723	1.11 ug/L		98
85)	Hexachlorobutadiene	22.84	225	1016	0.94 ug/L		97
86)	1,2,3-Trichlorobenzene	23.07	180	1111	0.95 ug/L		90

(#) = qualifier out of range (m) = manual integration
07091212.D 070912.M Wed Jul 11 07:01:22 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091212.D Vial: 6
Acq On : 9 Jul 2012 11:31 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:01 2012 Quant Results File: 070912.RES

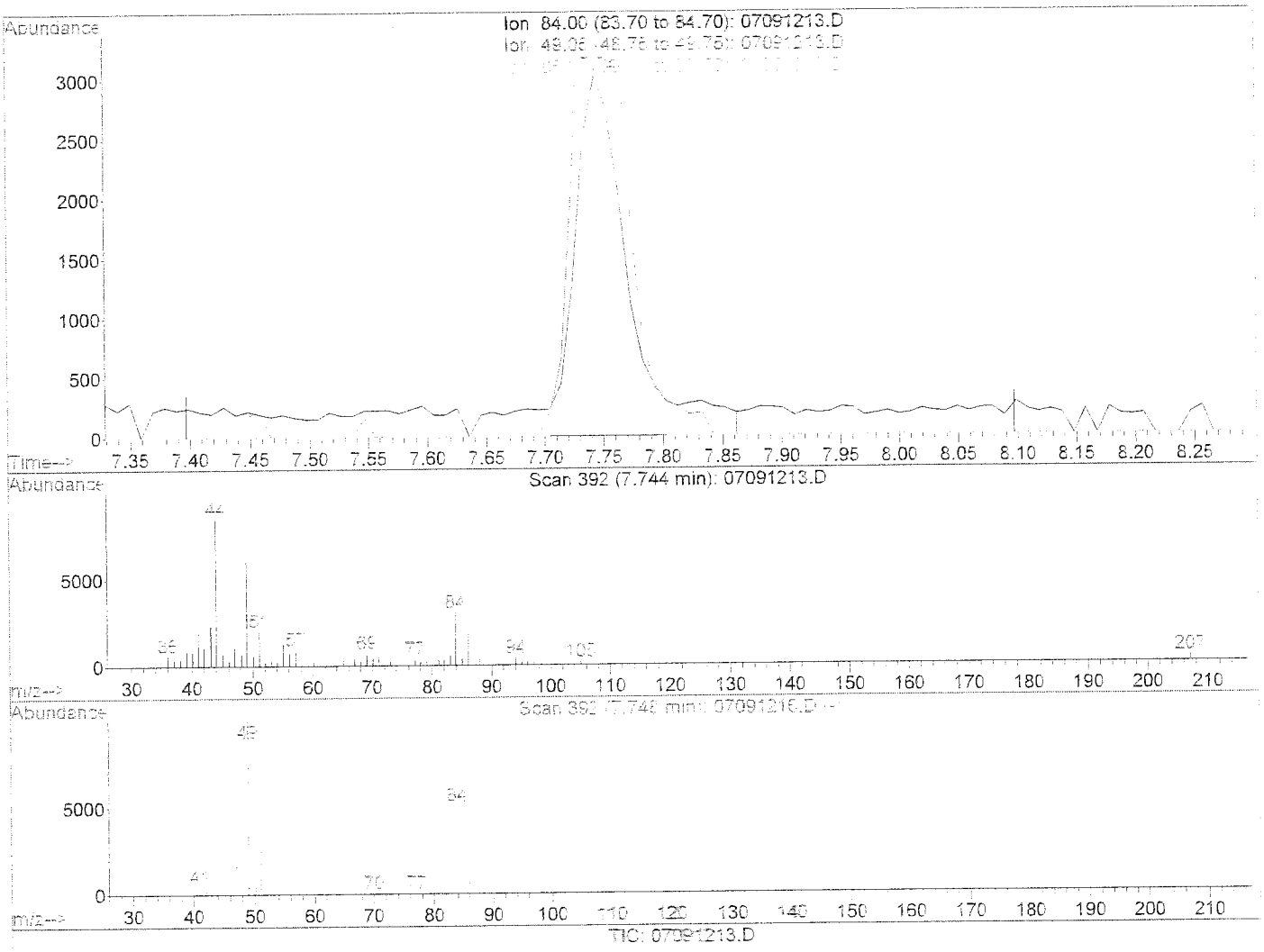
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:01 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(15) Methylene Chloride (T)

7.74min 2.76ug/L

response 10291

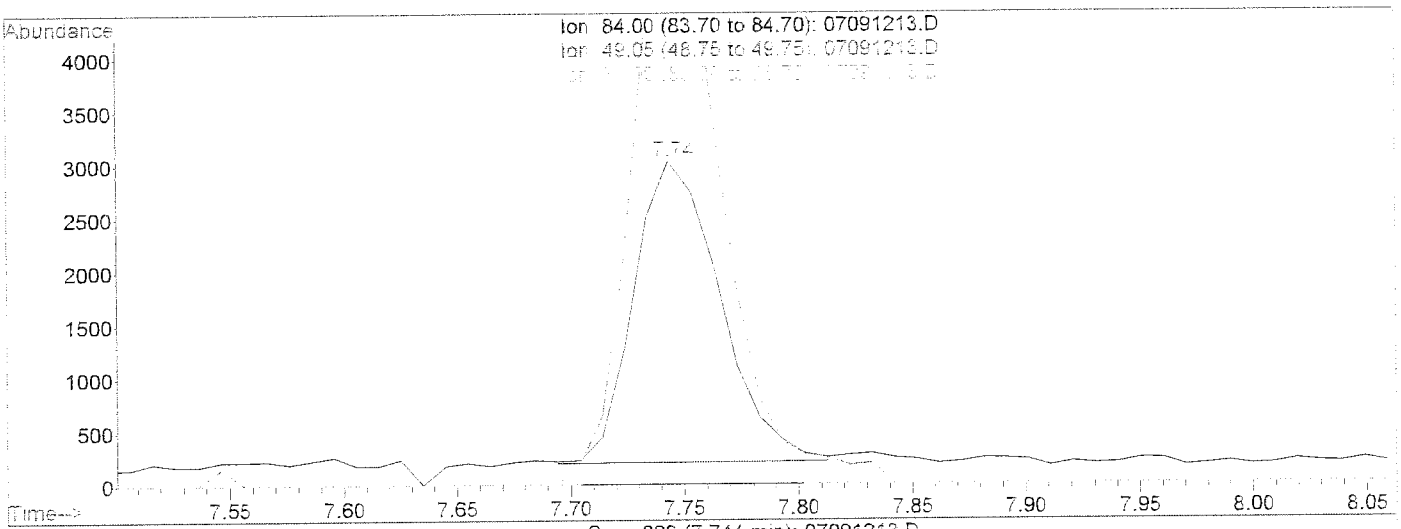
Ion	Exp%	Act%
84.00	100	100
49.05	184.90	149.41
86.00	59.70	48.53
0.00	0.00	0.00

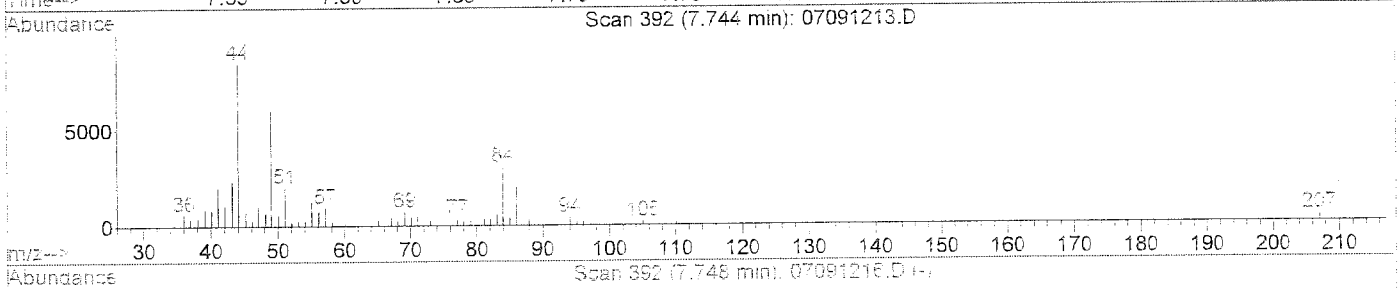
B
BL
MM 7/11/12

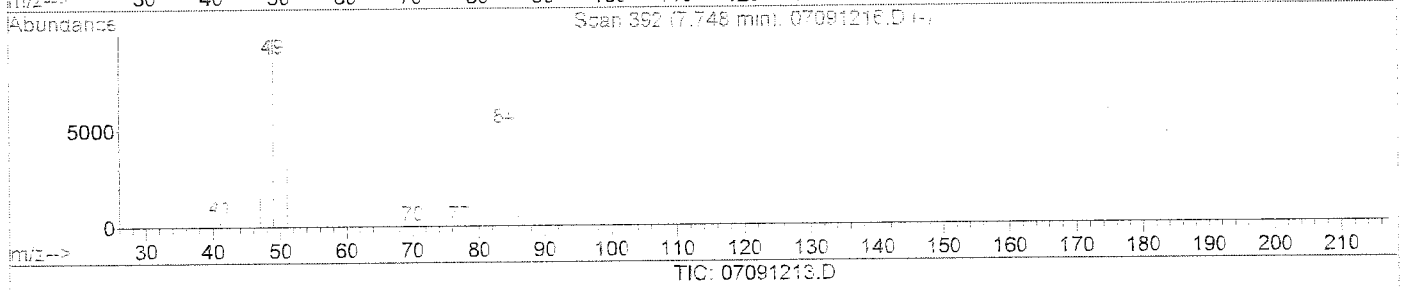
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:07 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091213.D

(15) Methylene Chloride (T)

7.74min 1.89ug/L m

response 7390

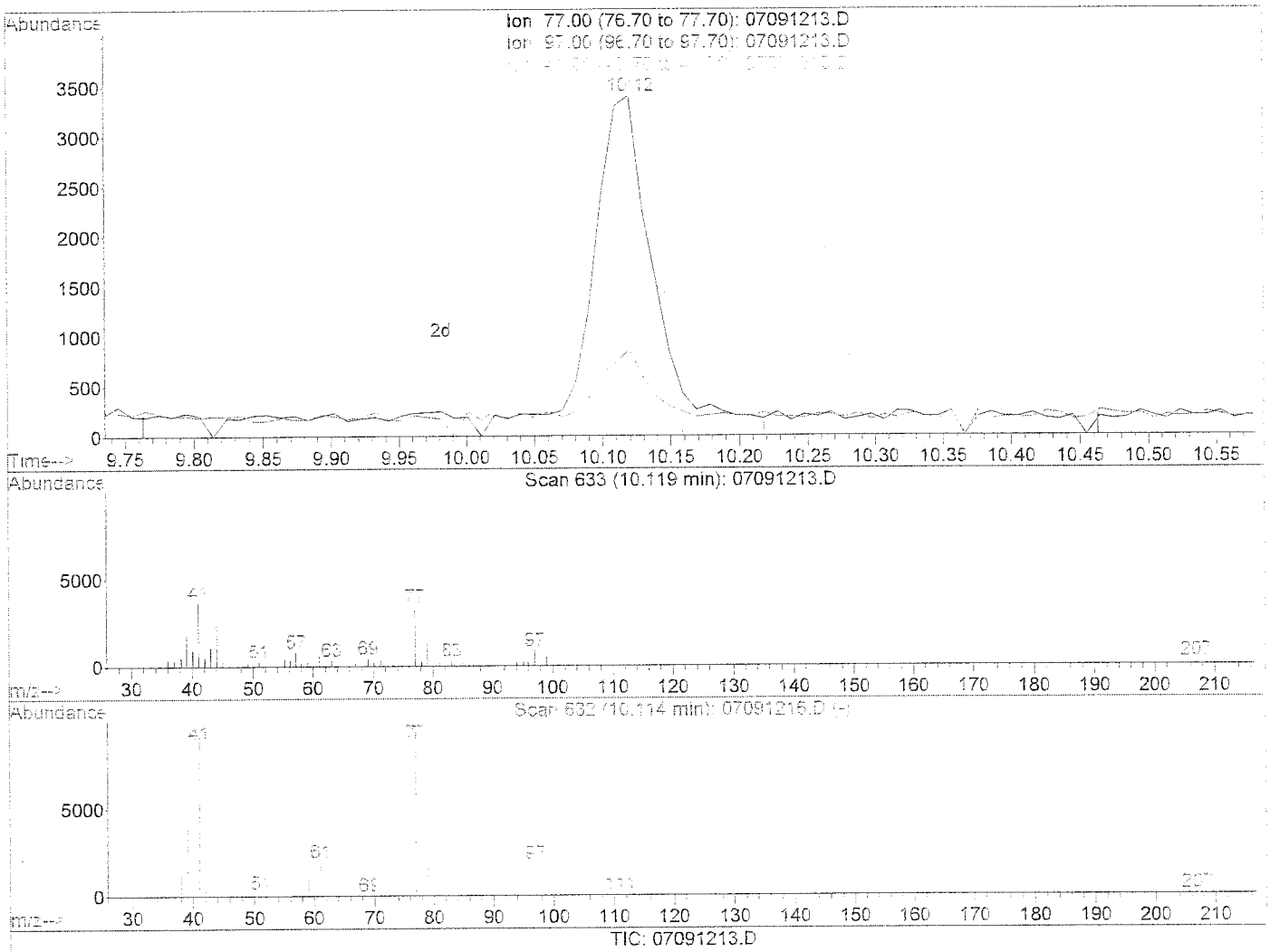
Ion	Exp%	Act%
84.00	100	100
49.05	184.90	208.06
86.00	59.70	67.58
0.00	0.00	0.00

A mm 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:02 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(28) 2,2-Dichloropropane (T)

10.12min 2.44ug/L

response 11030

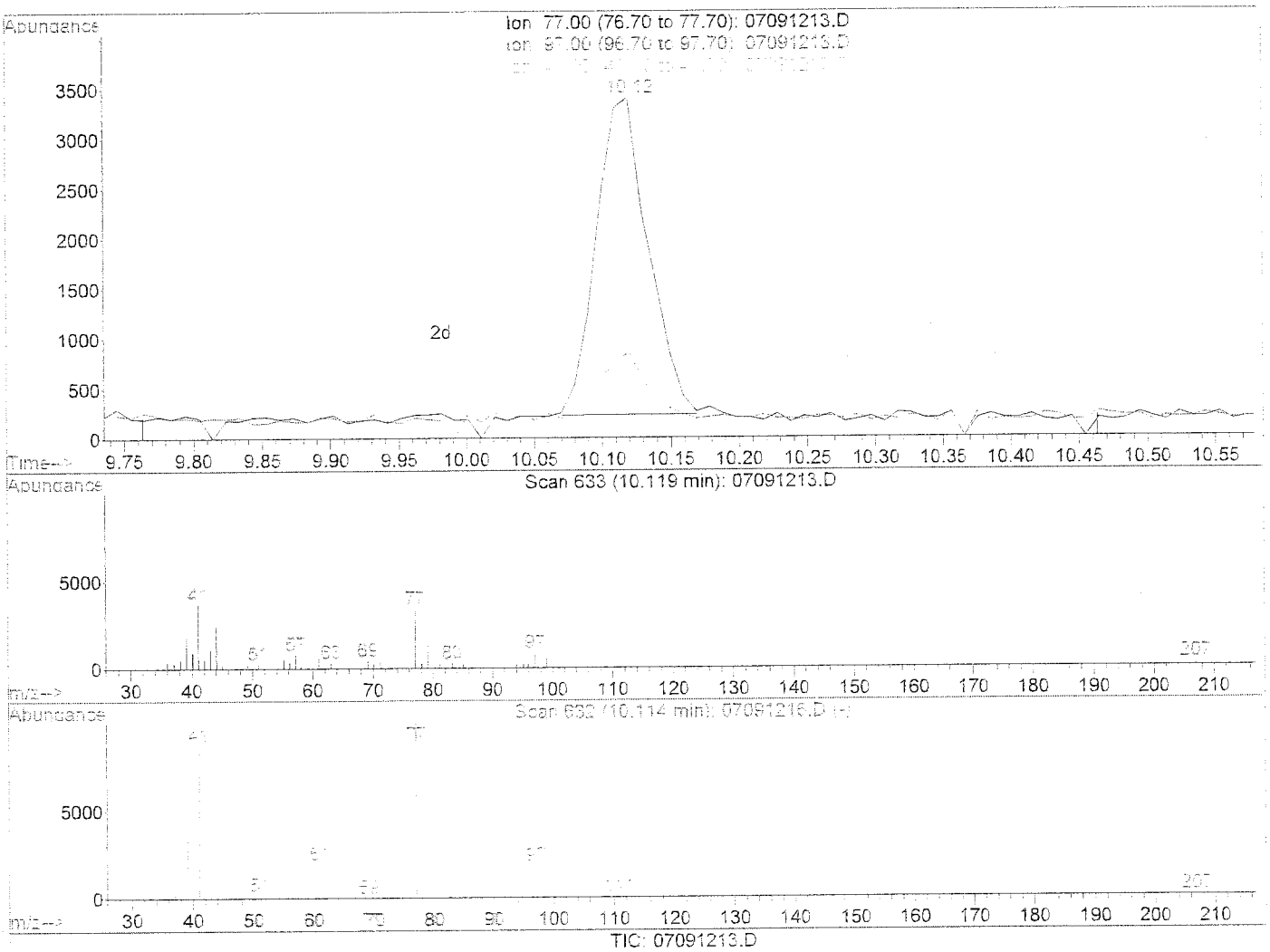
Ion	Exp%	Act%
77.00	100	100
97.00	18.70	16.45
41.00	90.40	75.64
0.00	0.00	0.00

A B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:02 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(28) 2,2-Dichloropropane (T)

10.12min 1.76ug/L m

response 8273

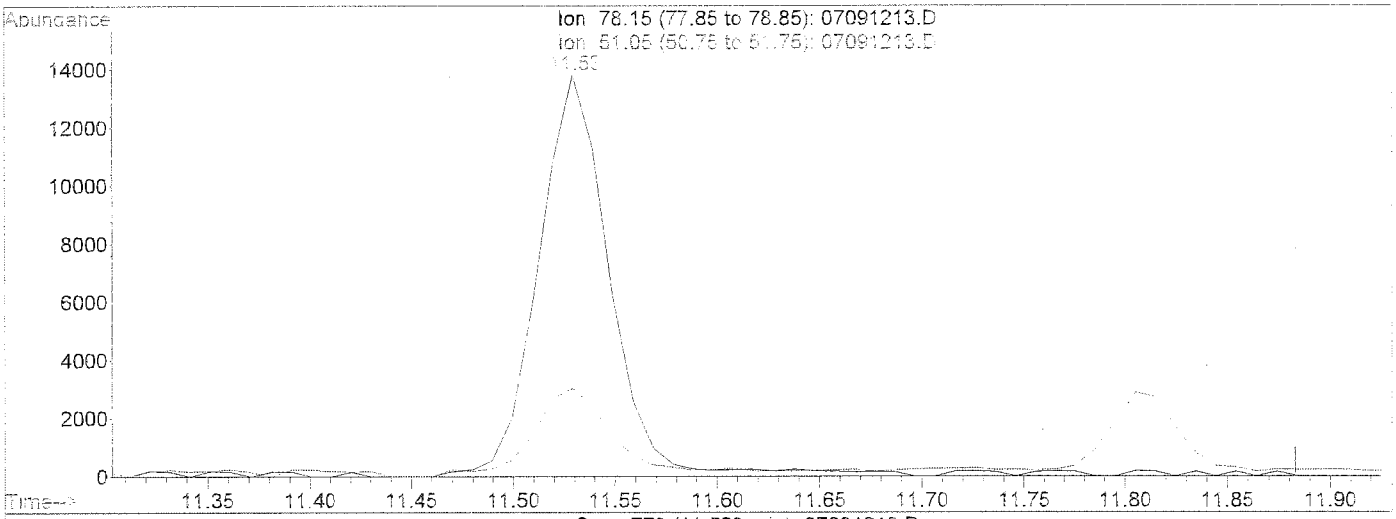
Ion	Exp%	Act%
77.00	100	100
97.00	18.70	21.93
41.00	90.40	100.85
0.00	0.00	0.00

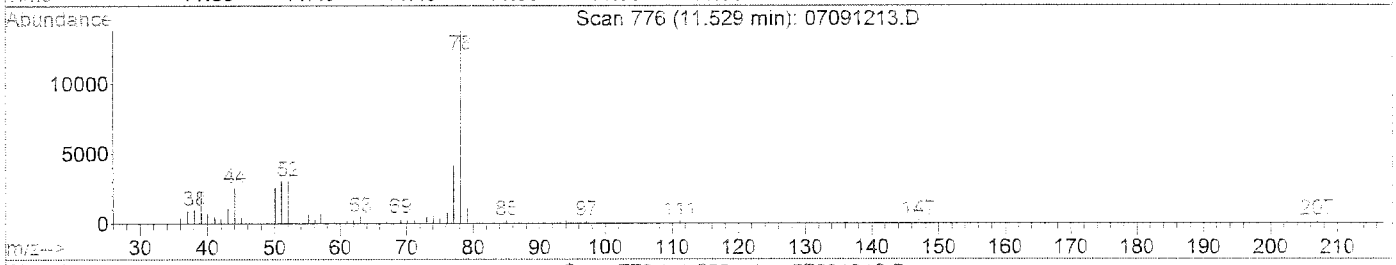
A
MNM
7/11/12

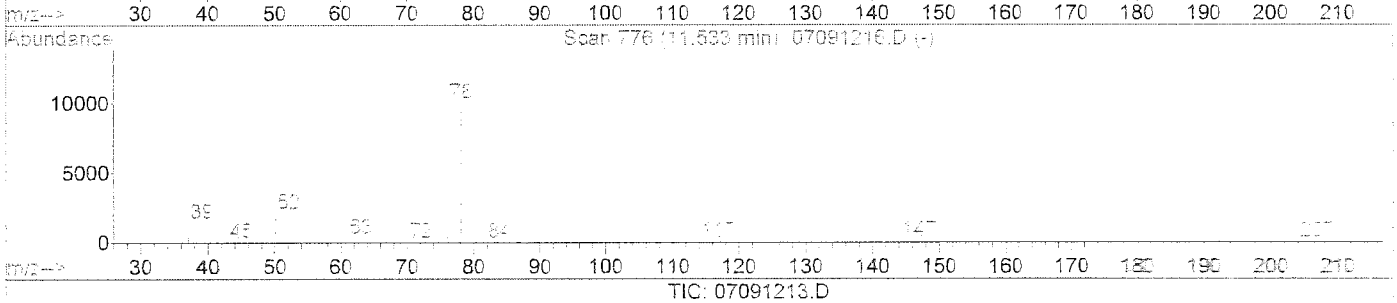
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:02 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091213.D

(38) Benzene (T)

11.53min 2.16ug/L

response 33911

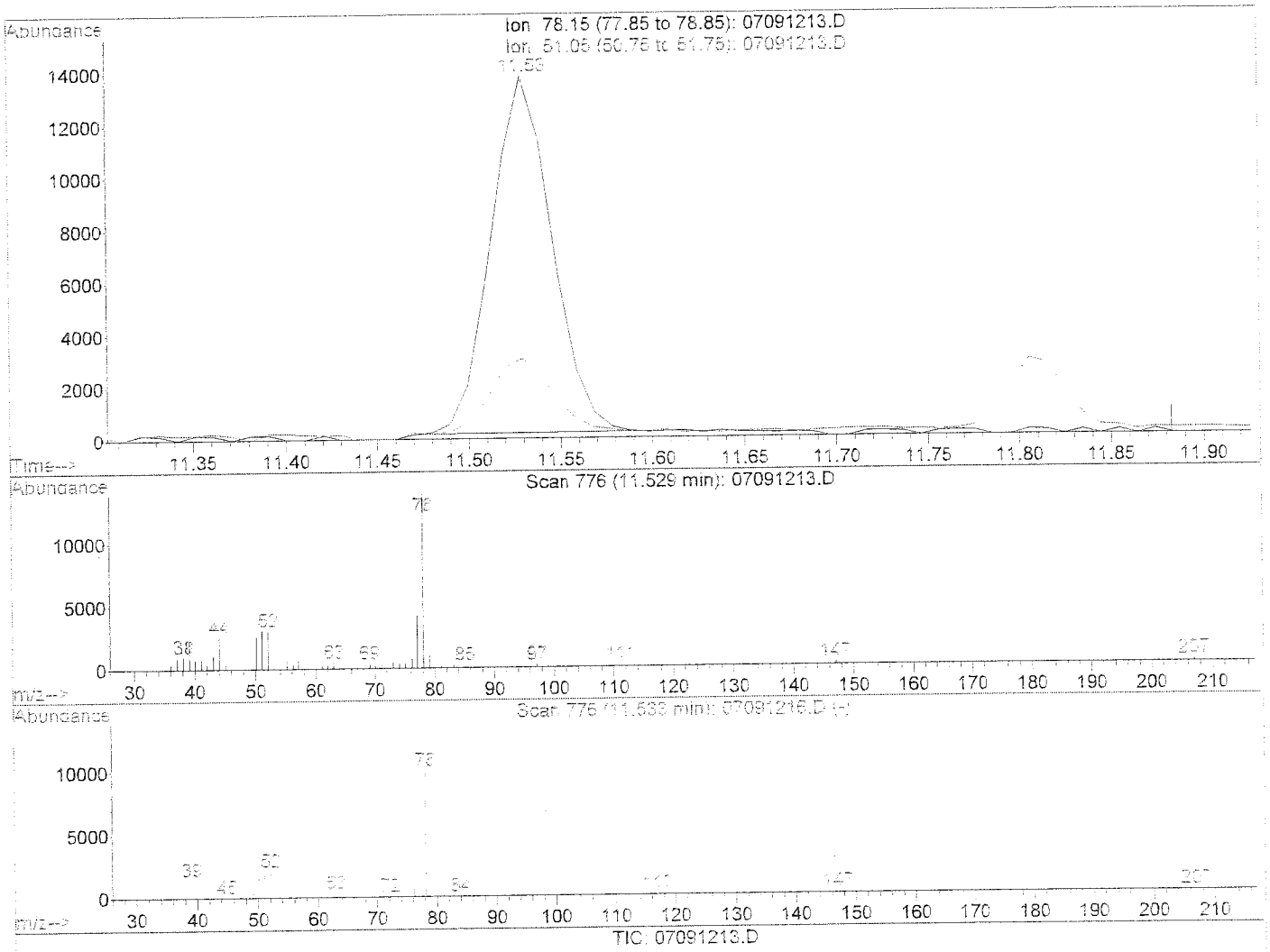
Ion	Exp%	Act%
78.15	100	100
51.05	20.90	26.01#
0.00	0.00	0.00
0.00	0.00	0.00

B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(38) Benzene (T)

11.53min 1.99ug/L m

response 31144

Ion	Exp%	Act%
78.15	100	100
51.05	20.90	28.32#
0.00	0.00	0.00
0.00	0.00	0.00

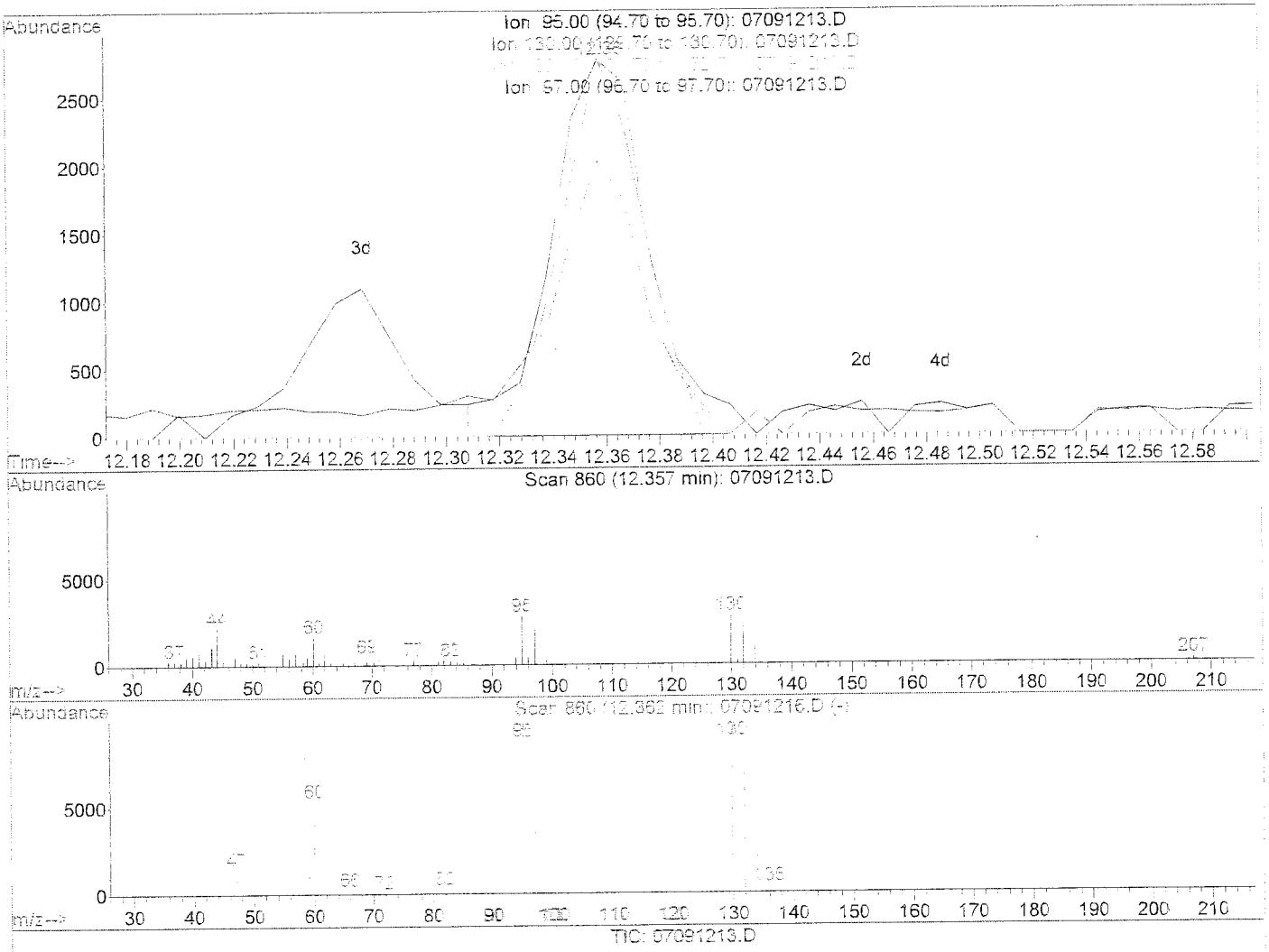
A

MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(41) Trichloroethene (T)

12.36min 2.27ug/L

response 7069

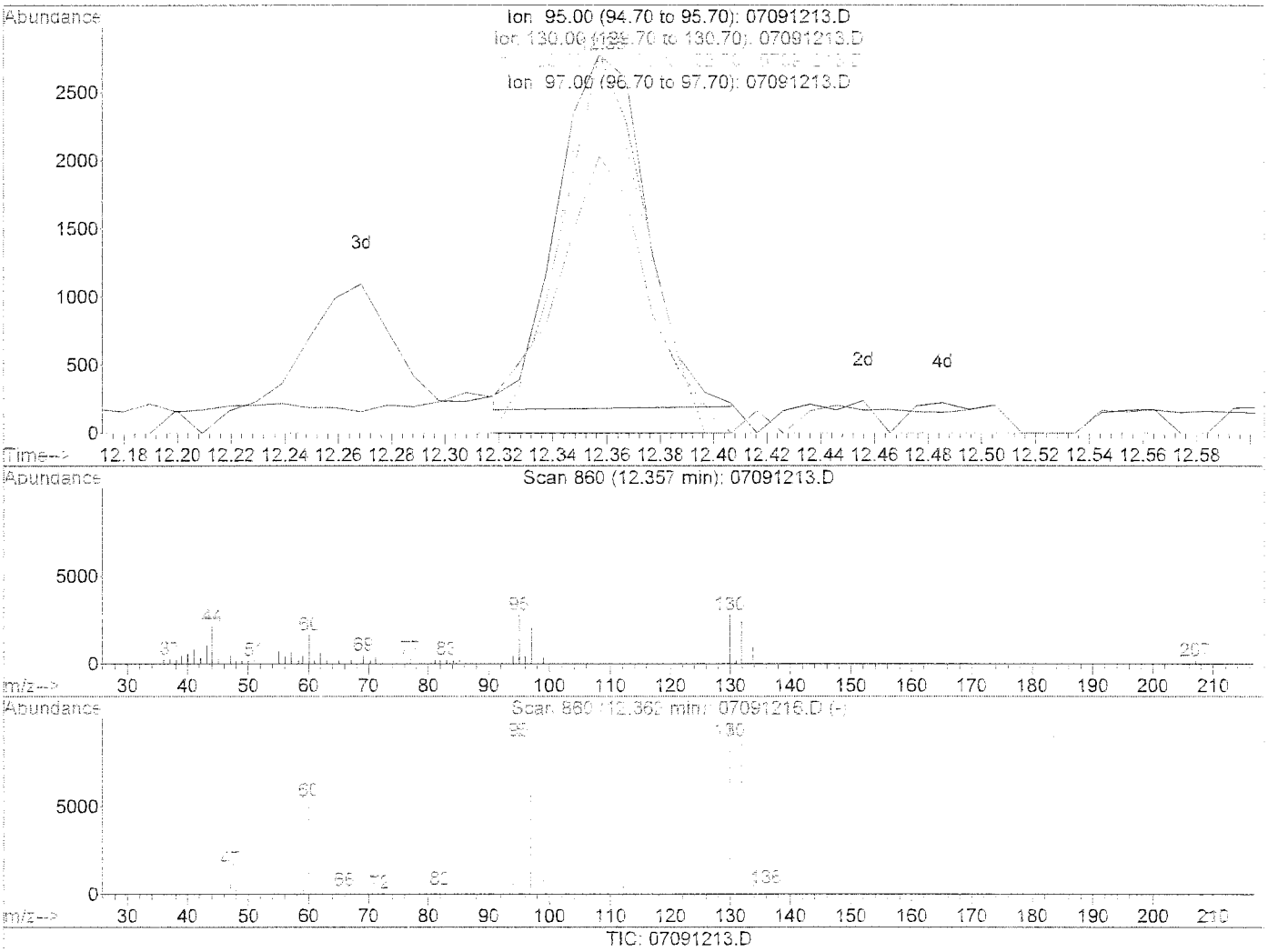
Ion	Exp%	Act%
95.00	100	100
130.00	90.40	85.37
132.00	85.50	82.23
97.00	63.70	77.80#

B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(41) Trichloroethene (T)

12.36min 1.91ug/L m

response 5939

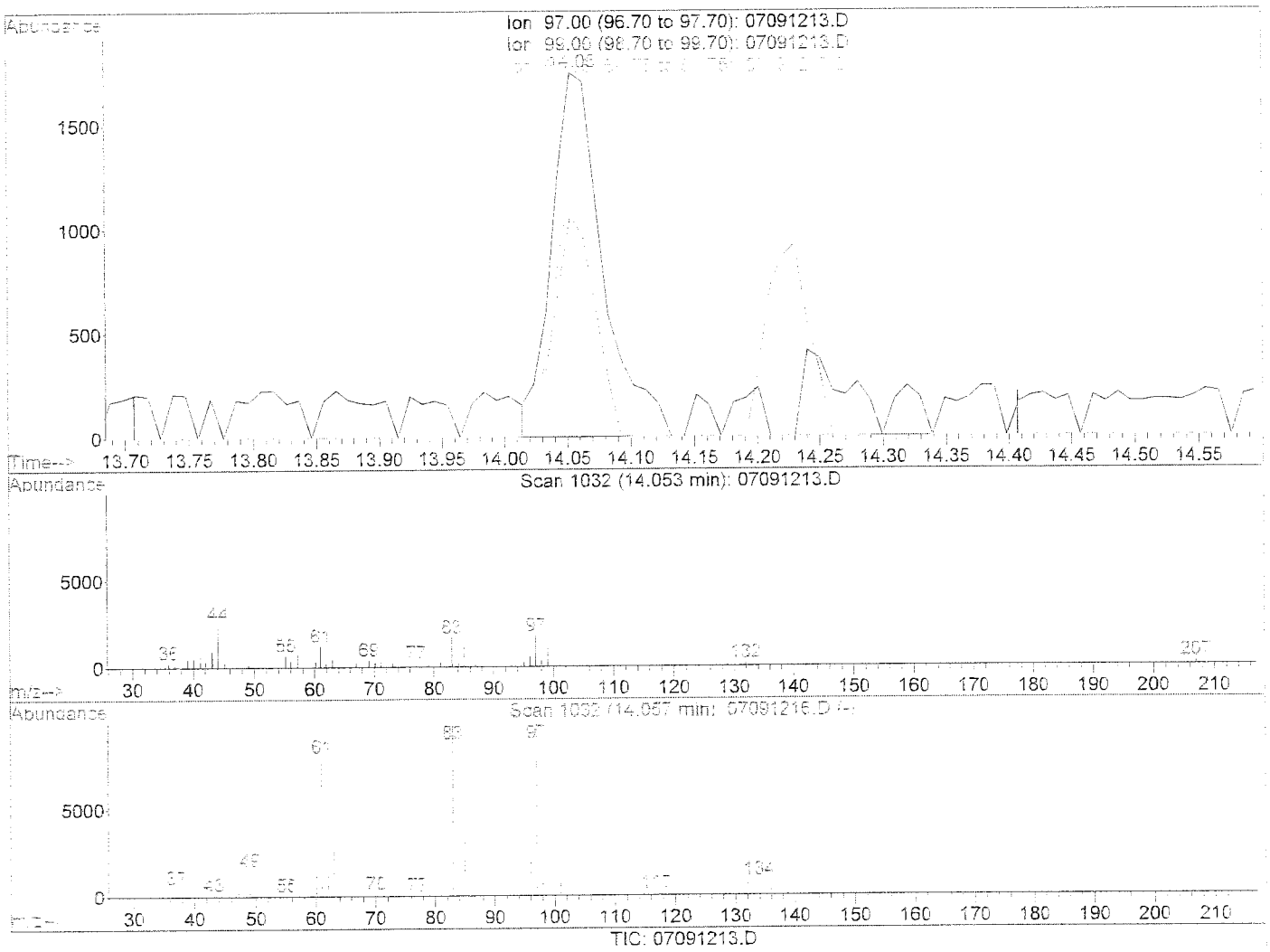
Ion	Exp%	Act%
95.00	100	100
130.00	90.40	101.62
132.00	85.50	97.88
97.00	63.70	92.61#

MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:03 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.05min 2.65ug/L

response 4909

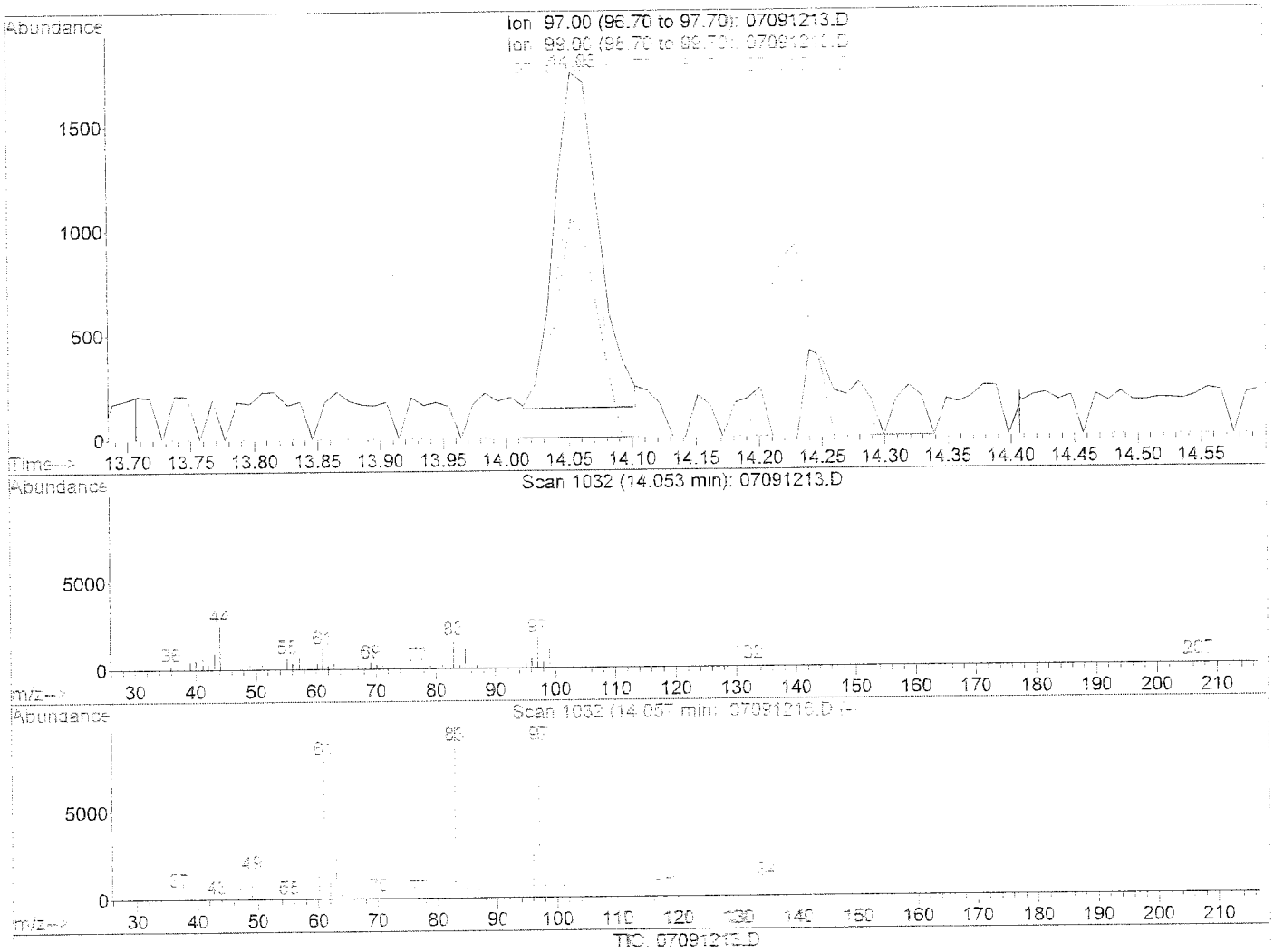
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	49.50
61.05	77.30	60.44#
0.00	0.00	0.00

B
BL
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:04 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.05min 2.12ug/L m

response 3927

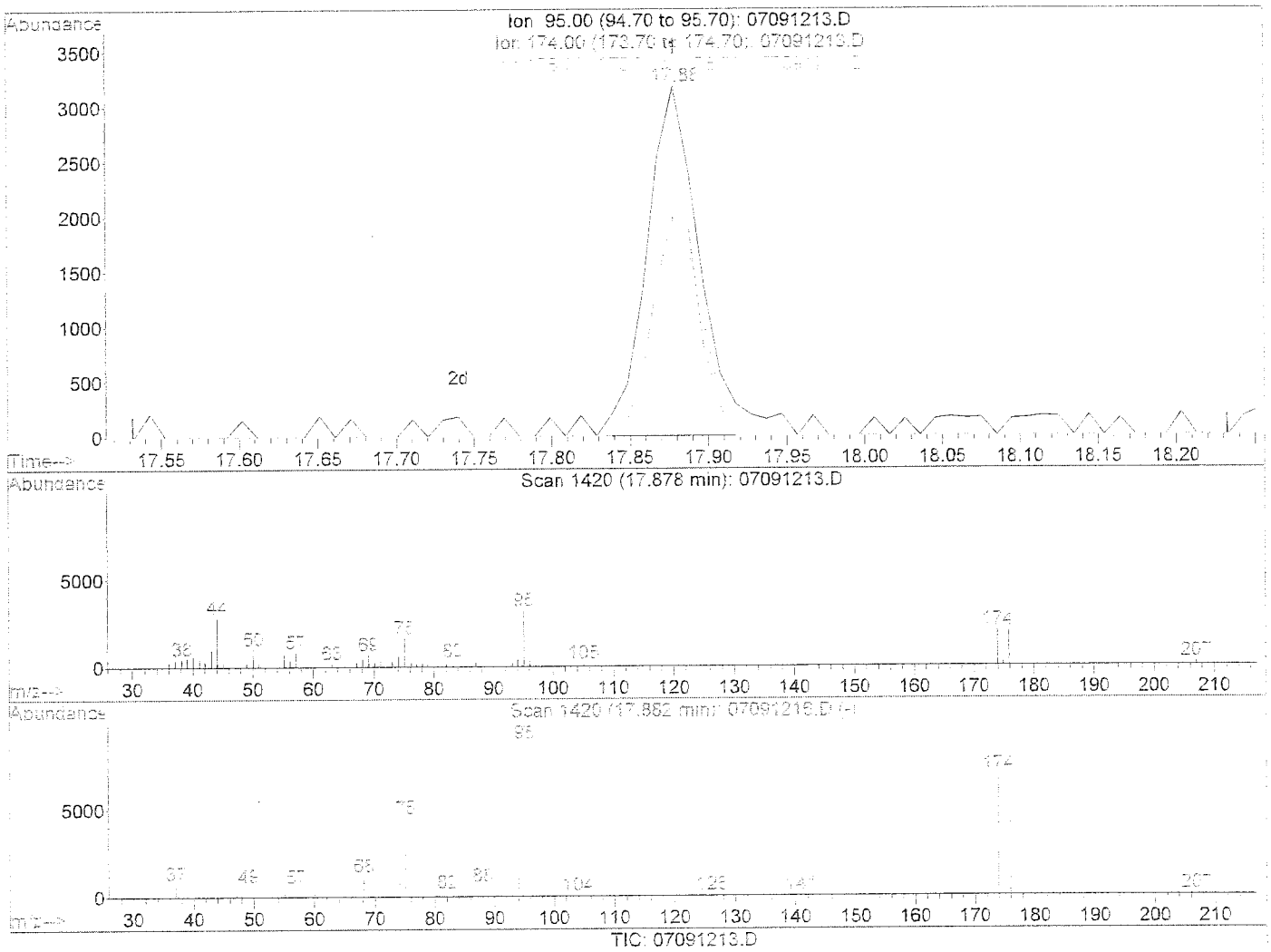
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	61.88
61.05	77.30	75.55
0.00	0.00	0.00

A
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:04 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



TIC: 07091213.D

(62) 4-Bromofluorobenzene (S)

17.88min 2.59ug/L

response 7802

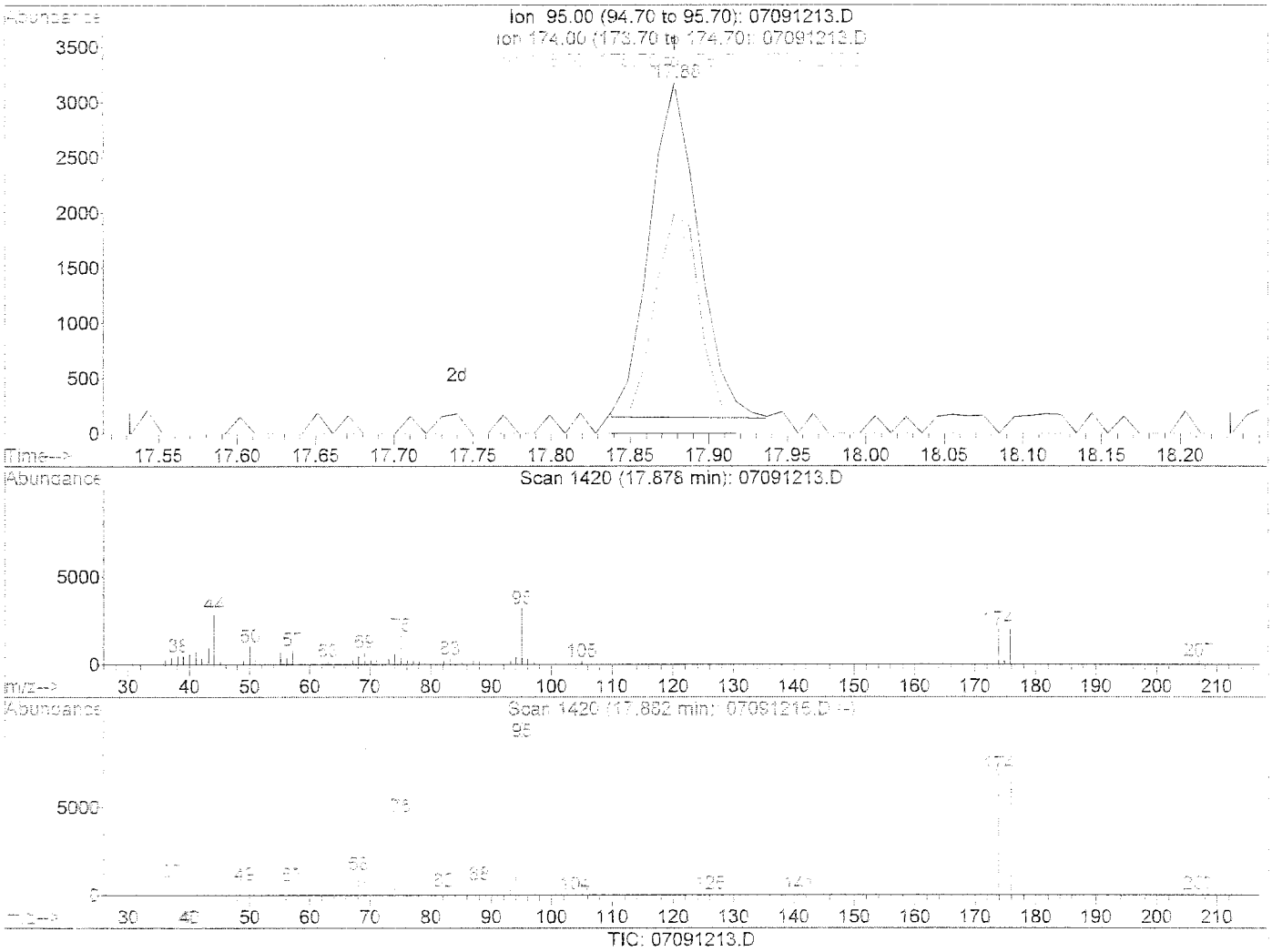
Ion	Exp%	Act%
95.00	100	100
174.00	65.90	53.50
176.00	63.50	52.91
0.00	0.00	0.00

B
BL
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:06 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(62) 4-Bromofluorobenzene (S)

17.88min 2.16ug/L m

response 6512

Ion	Exp%	Act%
95.00	100	100
174.00	65.90	64.10
176.00	63.50	63.39
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:07 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.45	65	60461	200.00 ug/L	-0.01
4) Pentafluorobenzene	10.67	168	134944	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	232744	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	168319	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	62140	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	4760	2.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.32%	
48) Toluene-d8	14.22	98	20965	2.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.12%	
62) 4-Bromofluorobenzene	17.88	95	6512m	2.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.64%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.57	59	4771	12.46 ug/L	100
5) Dichlorodifluoromethane	4.58	85	8809	1.99 ug/L	98
6) Chloromethane	4.86	50	16997	2.05 ug/L	95
7) Vinyl Chloride	5.16	62	14461	2.05 ug/L	91
8) 1,3-Butadiene	5.34	54	11477	2.15 ug/L	98
9) Bromomethane	5.77	94	6276	2.18 ug/L	84
10) Chloroethane	5.99	64	8906	2.10 ug/L #	90
11) Trichlorofluoromethane	6.83	101	6600	2.09 ug/L	100
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	7.62	142	7544	2.09 ug/L	98
14) 1,1-Dichloroethene	7.56	96	8416	2.48 ug/L #	76
15) Methylene Chloride	7.74	84	7390m	1.89 ug/L	
16) Freon 113	7.82	101	6429	2.04 ug/L	96
17) Carbon disulfide	8.08	76	28010	2.06 ug/L #	1
18) trans-1,2-Dichloroethene	8.55	96	9041	2.19 ug/L	80
19) MTBE	8.73	73	16228	2.10 ug/L	97
20) 1,1-Dichloroethane	9.35	63	17020	2.10 ug/L	98
21) Vinyl Acetate	9.14	43	17313	2.02 ug/L	99
22) n-Hexane	9.50	86	2782	2.12 ug/L	91
23) 2-Butanone (MEK)	9.55	72	711	1.68 ug/L #	30
24) Diisopropyl Ether (DIPE)	9.54	45	36187	1.99 ug/L	96
25) cis-1,2-Dichloroethene	9.73	96	7394	1.95 ug/L	93
26) Bromochloromethane	9.94	128	2140	1.89 ug/L #	66
27) Chloroform	10.00	83	10750	2.05 ug/L	94
28) 2,2-Dichloropropane	10.12	77	8273m	1.76 ug/L	
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	23339	1.98 ug/L	98
31) Tetrahydrofuran	10.44	72	993	2.83 ug/L	89
32) 1,2-Dichloroethane	10.86	62	6562	2.00 ug/L	98
33) 1,1,1-Trichloroethane	11.00	97	8077	1.79 ug/L	96
34) (TAME) tert-Amyl methyl et	11.71	73	18293	2.08 ug/L	98
36) 1,1-Dichloropropene	11.23	75	12081	2.01 ug/L	98
37) Carbon Tetrachloride	11.47	117	5742	2.10 ug/L #	96
38) Benzene	11.53	78	31144m	1.99 ug/L	
39) Dibromomethane	12.26	93	2778	2.03 ug/L #	83
40) 1,2-Dichloropropane	12.31	63	8604	2.06 ug/L	93

(#) = qualifier out of range (m) = manual integration
07091213.D 070912.M Wed Jul 11 07:07:16 2012

TBA

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:07 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41) Trichloroethene	12.36	95	5939m	1.91 ug/L		
42) Bromodichloromethane	12.43	83	6942	1.97 ug/L	#	69
43) 2-Chlorovinylethylether	12.95	63	3267	2.03 ug/L	#	88
44) cis-1,3-Dichloropropene	13.26	75	10455	1.97 ug/L		88
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	8409	2.16 ug/L		99
46) trans-1,3-Dichloropropene	13.84	75	7857	1.97 ug/L		90
47) 1,1,2-Trichloroethane	14.05	97	3927m	2.12 ug/L		
49) Toluene	14.32	92	16740	2.03 ug/L		96
51) 1,3-Dichloropropane	14.38	76	8290	2.04 ug/L		93
52) 2-Hexanone	14.57	43	4998	1.77 ug/L	#	80
53) Dibromochloromethane	14.75	129	3487	2.01 ug/L		100
54) 1,2-Dibromoethane	15.10	107	3470	2.08 ug/L		91
55) Tetrachloroethene	15.31	164	4471	2.11 ug/L		95
56) 1,1,1,2-Tetrachloroethane	16.12	131	3952	2.10 ug/L		92
57) Chlorobenzene	16.24	112	14116	2.09 ug/L	#	76
58) Ethylbenzene	16.50	91	29076	2.03 ug/L		100
59) m,p-Xylenes	16.76	106	10402	2.04 ug/L		98
60) Styrene	17.22	104	14122	1.99 ug/L		95
61) o-Xylene	17.32	106	9411	2.08 ug/L		99
64) Bromoform	16.93	173	1765	1.85 ug/L		98
65) 1,1,2,2-Tetrachloroethane	17.30	83	5881	2.28 ug/L	#	90
66) 1,2,3-Trichloropropane	17.50	110	1098	2.14 ug/L	#	1
67) trans-1,4-Dichloro-2-buten	17.51	53	2089	2.26 ug/L	#	84
68) Isopropylbenzene	17.81	105	23572	2.03 ug/L		96
69) Bromobenzene	18.18	156	4165	1.99 ug/L		86
70) n-Propylbenzene	18.43	91	33326	2.03 ug/L		100
71) 2-Chlorotoluene	18.58	91	18013	2.07 ug/L		98
72) 4-Chlorotoluene	18.68	91	17155	2.05 ug/L		98
73) 1,3,5-Trimethylbenzene	18.82	105	18348	2.09 ug/L		97
74) tert-Butylbenzene	19.21	119	15766	2.07 ug/L		95
75) 1,2,4-Trimethylbenzene	19.35	105	17963	2.11 ug/L		98
76) sec-Butylbenzene	19.48	105	27968	2.13 ug/L		99
77) 1,3-Dichlorobenzene	19.59	146	9767	2.15 ug/L		93
78) 1,4-Dichlorobenzene	19.68	146	9183	2.08 ug/L	#	94
79) p-Isopropyltoluene	19.71	119	20014	2.14 ug/L		99
80) 1,2-Dichlorobenzene	20.12	146	6937	2.13 ug/L		94
81) n-Butylbenzene	20.21	91	21819	2.13 ug/L		98
82) 1,2-Dibromo-3-chloropropan	20.69	75	660	0.90 ug/L	#	81
83) 1,2,4-Trichlorobenzene	22.44	180	3398	2.27 ug/L		93
84) Napthalene	22.80	128	7290	2.20 ug/L		97
85) Hexachlorobutadiene	22.85	225	2081	2.21 ug/L		95
86) 1,2,3-Trichlorobenzene	23.07	180	2538	2.21 ug/L		92

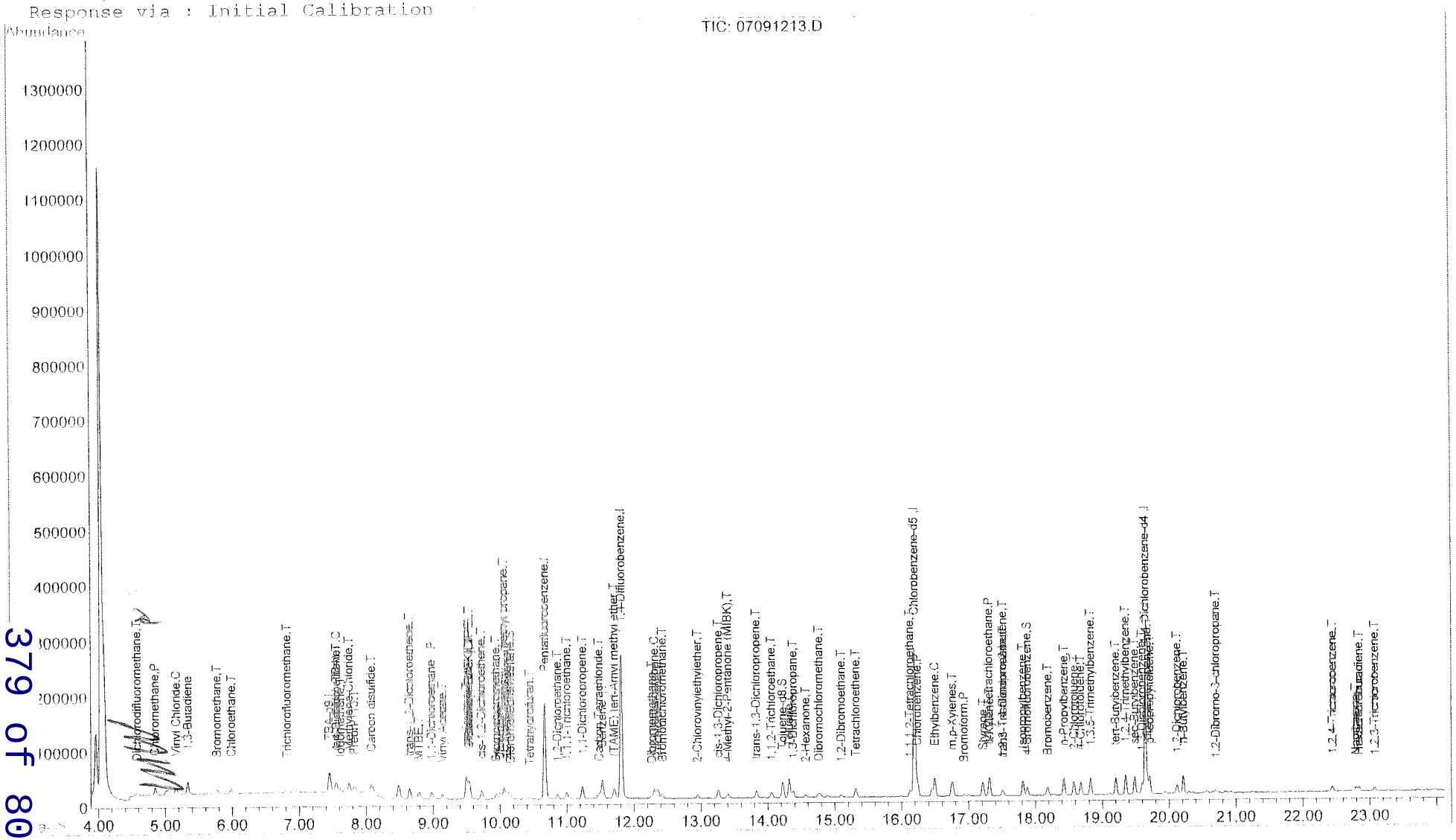
MNM

(#) = qualifier out of range (m) = manual integration
07091213.D 070912.M Wed Jul 11 07:07:17 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091213.D Vial: 7
Acq On : 9 Jul 2012 12:03 pm Operator: MNM
Sample : 2.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:07 2012 Quant Results File: 070912.RES

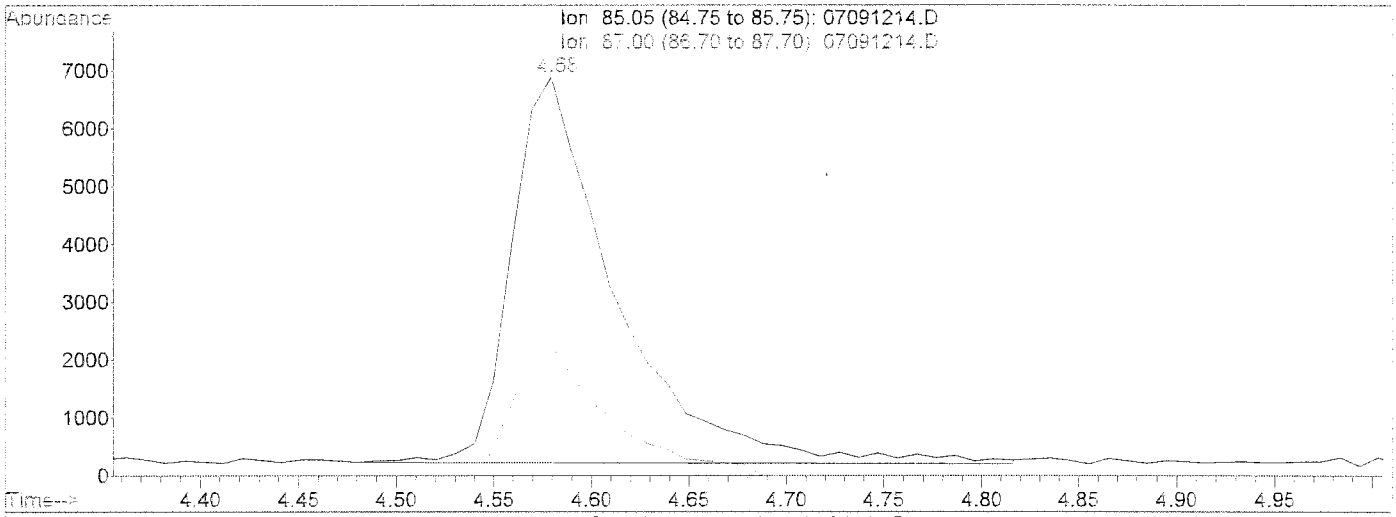
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

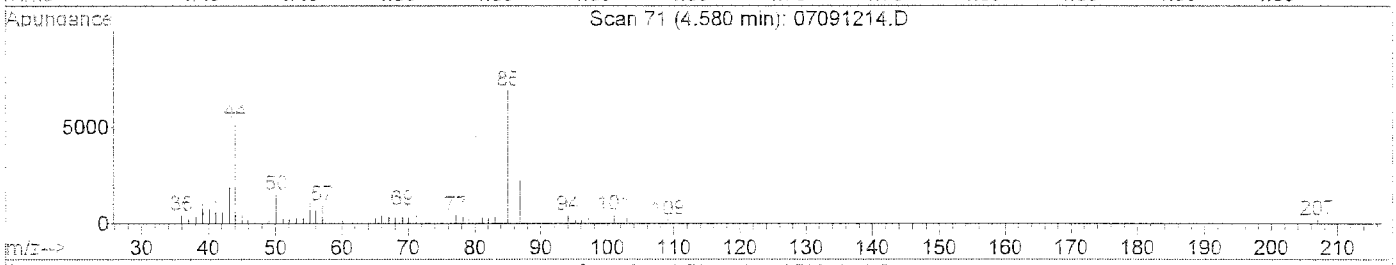


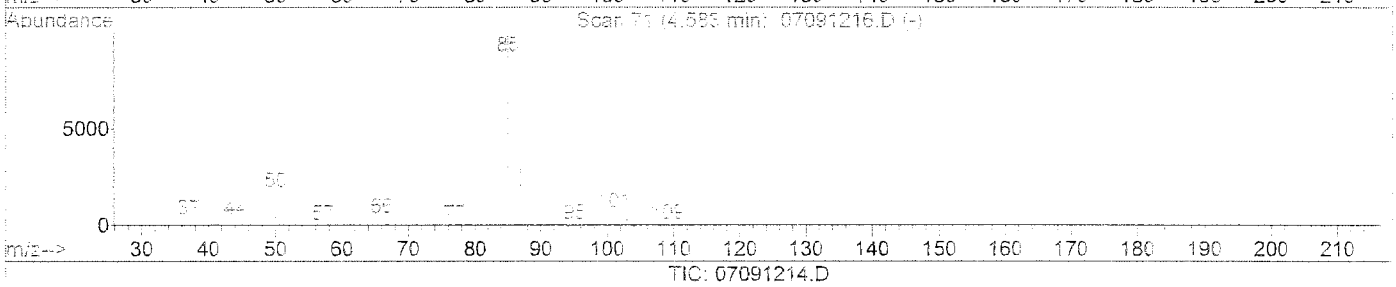
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:08 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091214.D

(5) Dichlorodifluoromethane (T)

4.58min 5.05ug/L

response 24726

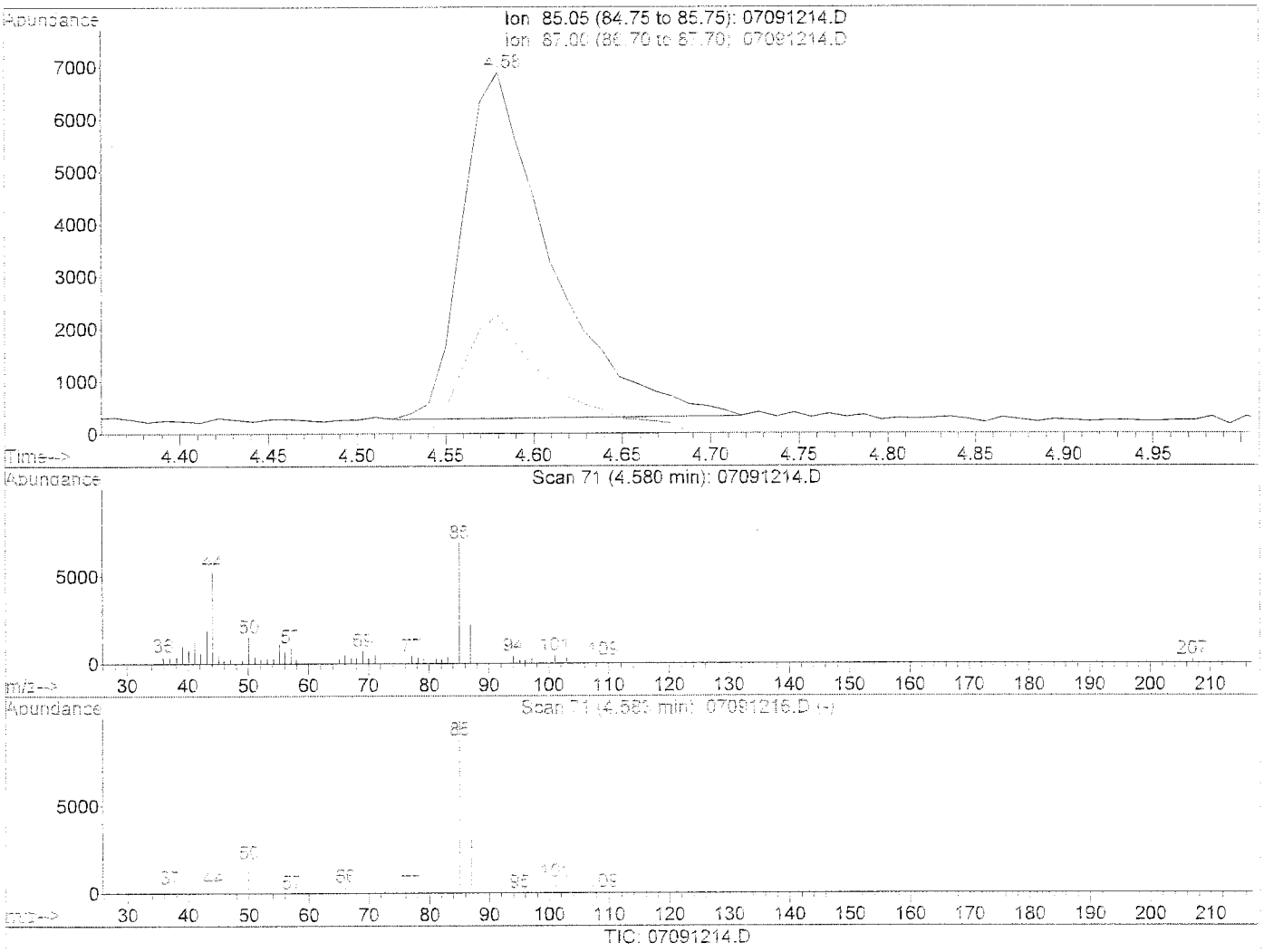
Ion	Exp%	Act%
85.05	100	100
87.00	31.90	30.45
0.00	0.00	0.00
0.00	0.00	0.00

B
BL
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:08 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(5) Dichlorodifluoromethane (T)

4.58min 4.71ug/L m

response 23034

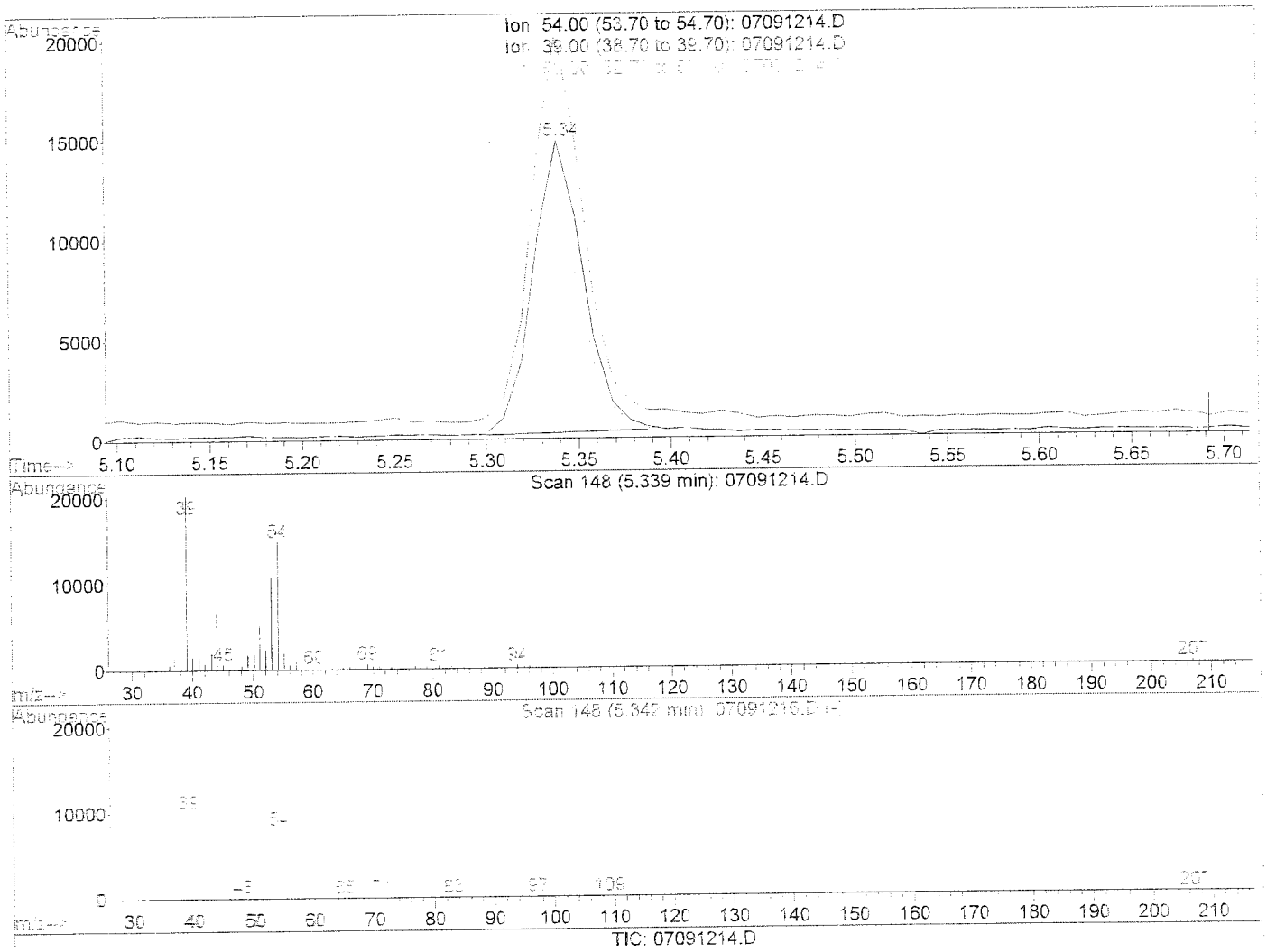
Ion	Exp%	Act%
85.05	100	100
87.00	31.90	32.69
0.00	0.00	0.00
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(8) 1,3-Butadiene

5.34min 4.73ug/L m

response 27916

Ion	Exp%	Act%
54.00	100	100
39.00	127.20	140.49
53.00	72.60	79.38
0.00	0.00	0.00

A BL
MM
7/11/12

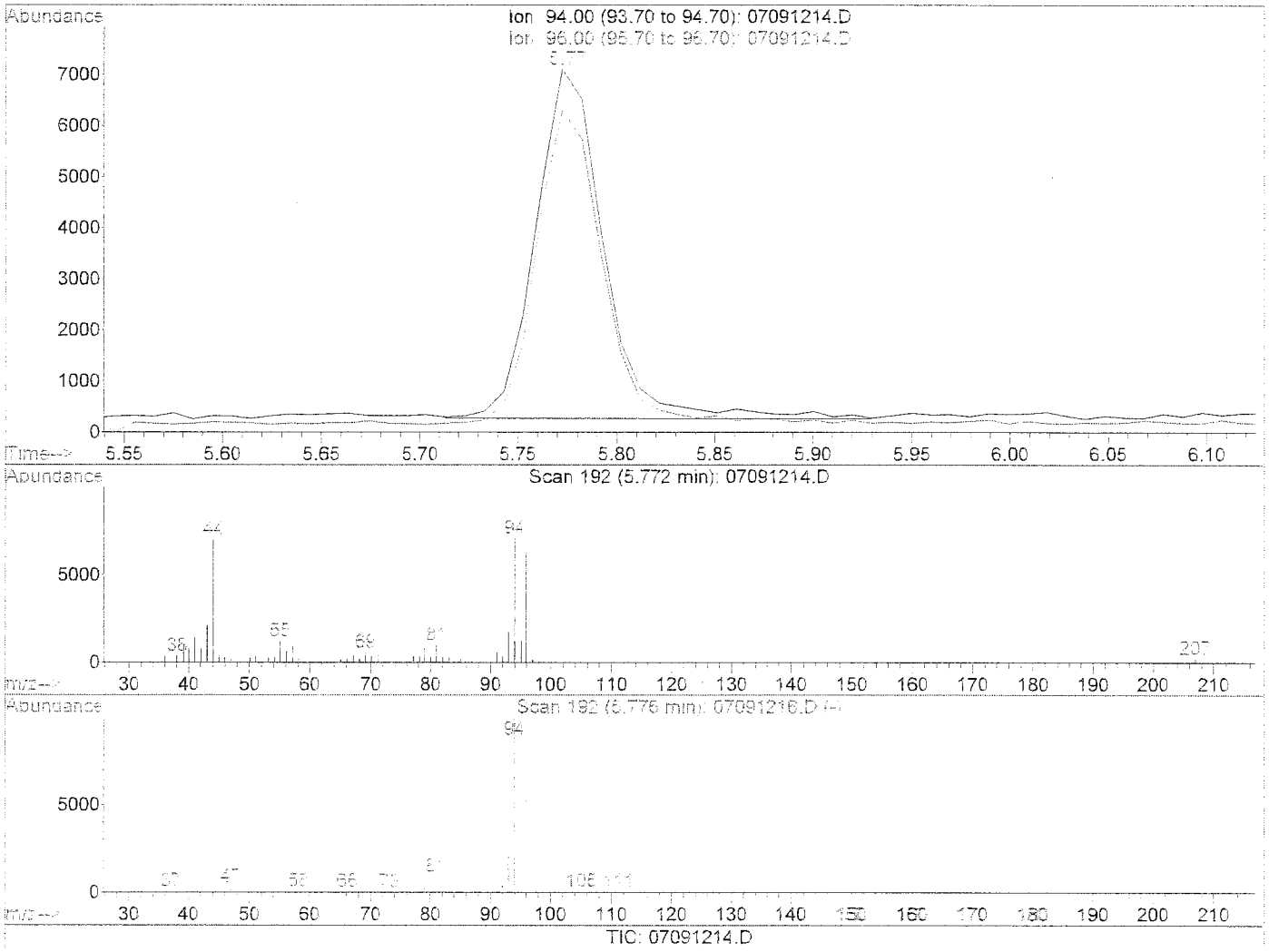
B

Printer problems
Had not print before

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:09 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(9) Bromomethane (T)

5.77min 5.14ug/L

response 16391

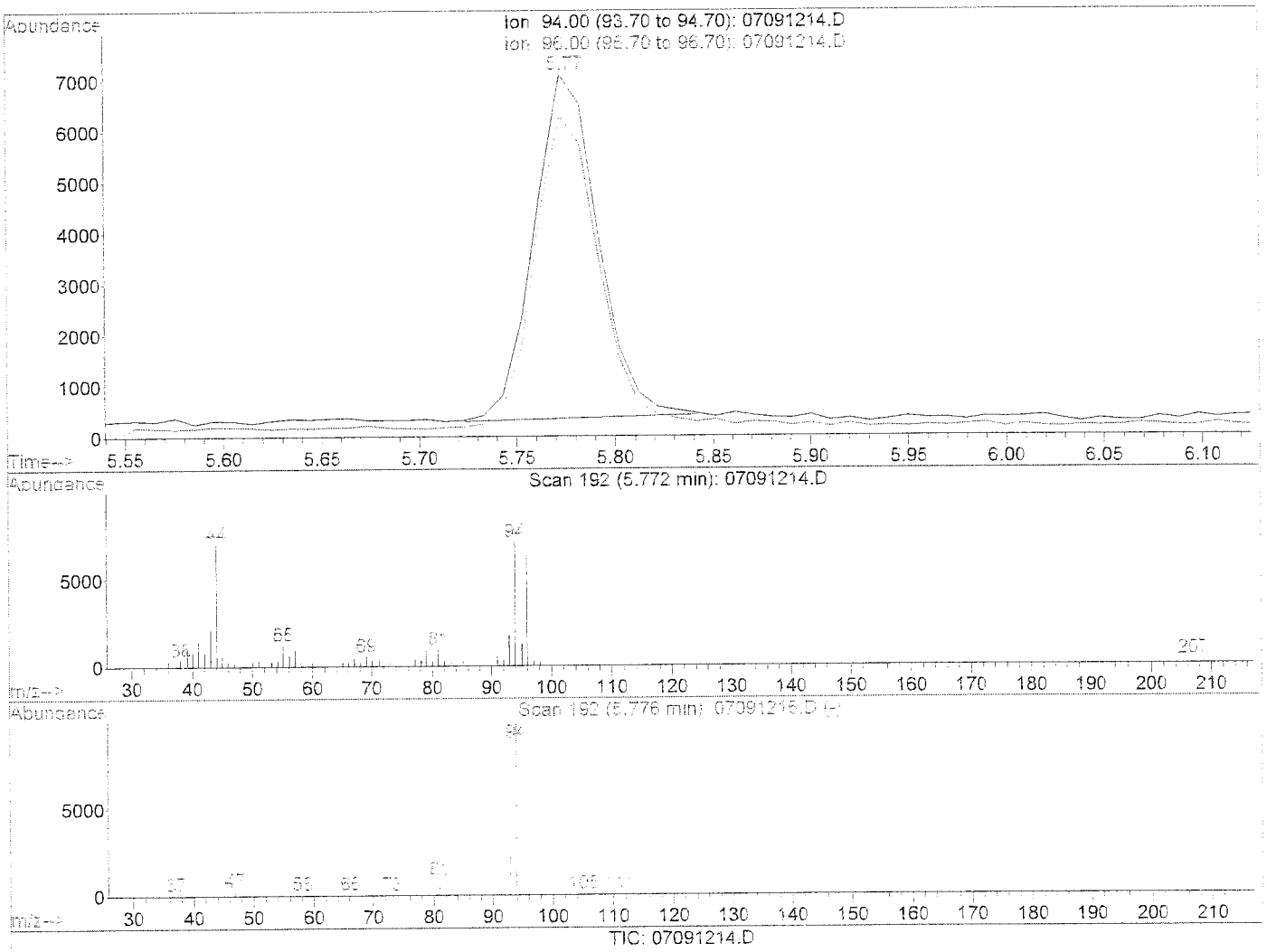
Ion	Exp%	Act%
94.00	100	100
96.00	96.00	89.28
0.00	0.00	0.00
0.00	0.00	0.00

B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(9) Bromomethane (T)

5.77min 4.77ug/L m

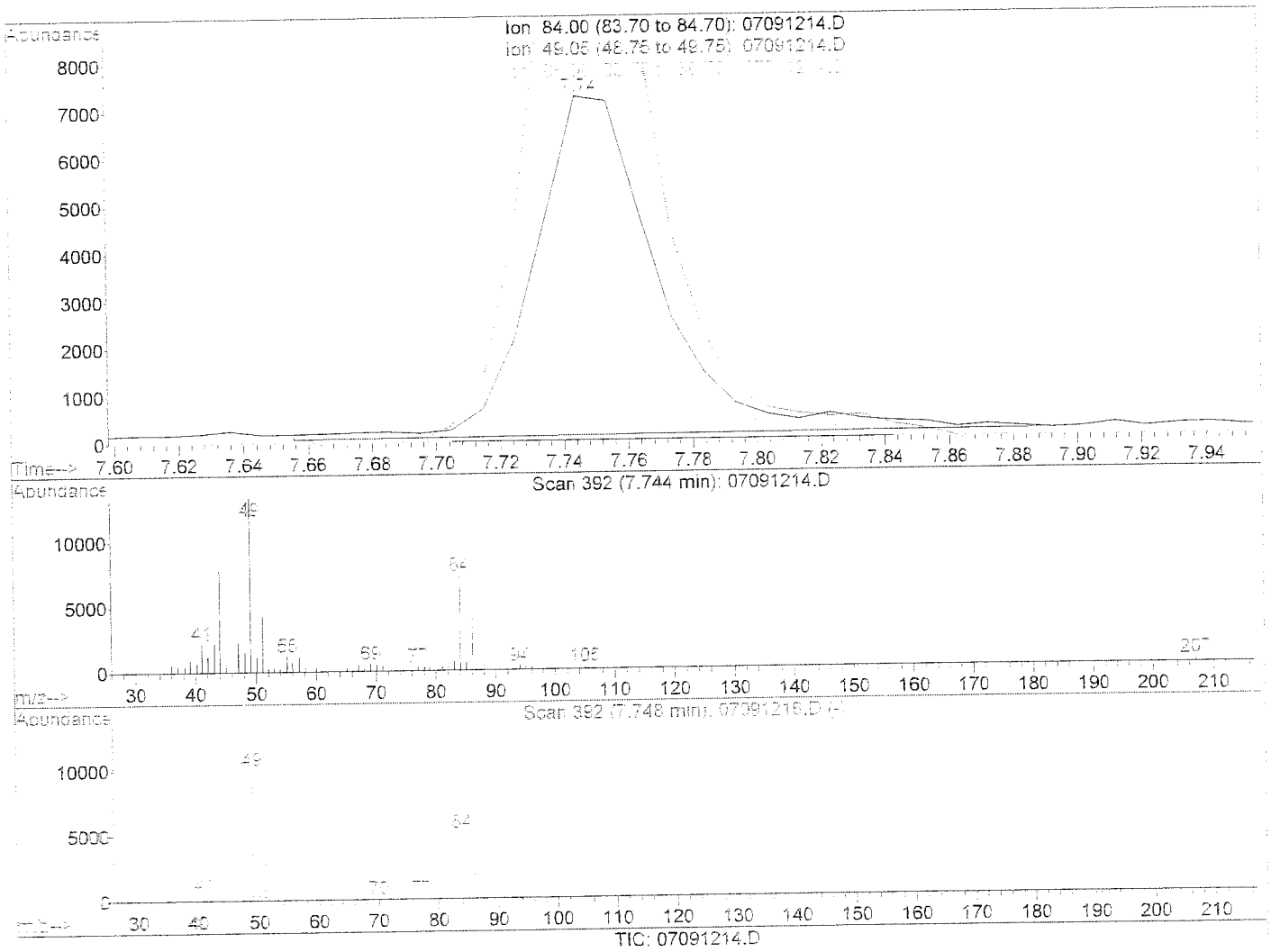
response 15230

Ion	Exp%	Act%
94.00	100	100
96.00	96.00	96.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(15) Methylene Chloride (T)

7.74min 4.96ug/L

response 19436

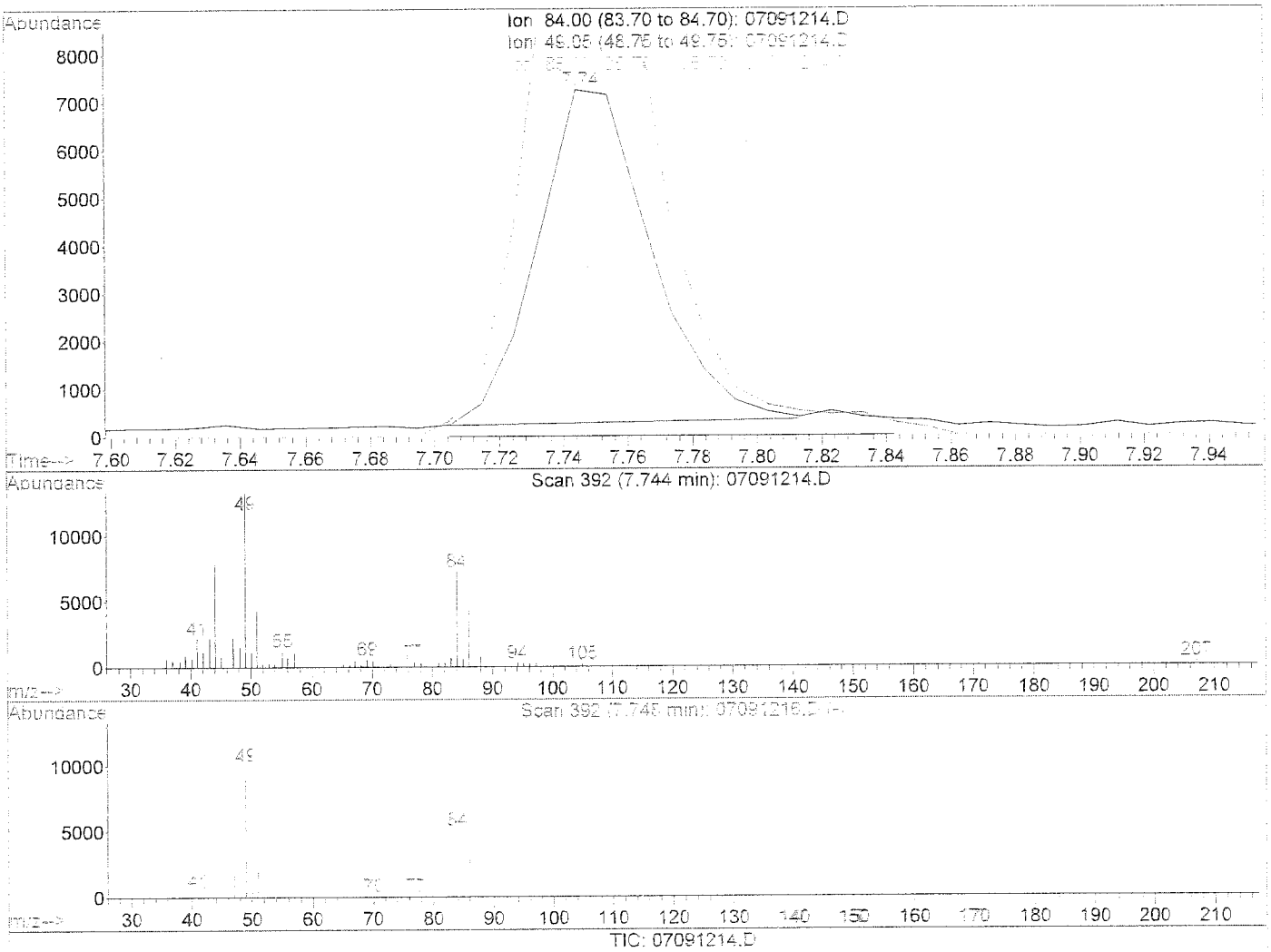
Ion	Exp%	Act%
84.00	100	100
49.05	184.90	183.58
86.00	59.70	60.67
0.00	0.00	0.00

B
BL
MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(15) Methylene Chloride (T)

7.74min 4.34ug/L m

response 17169

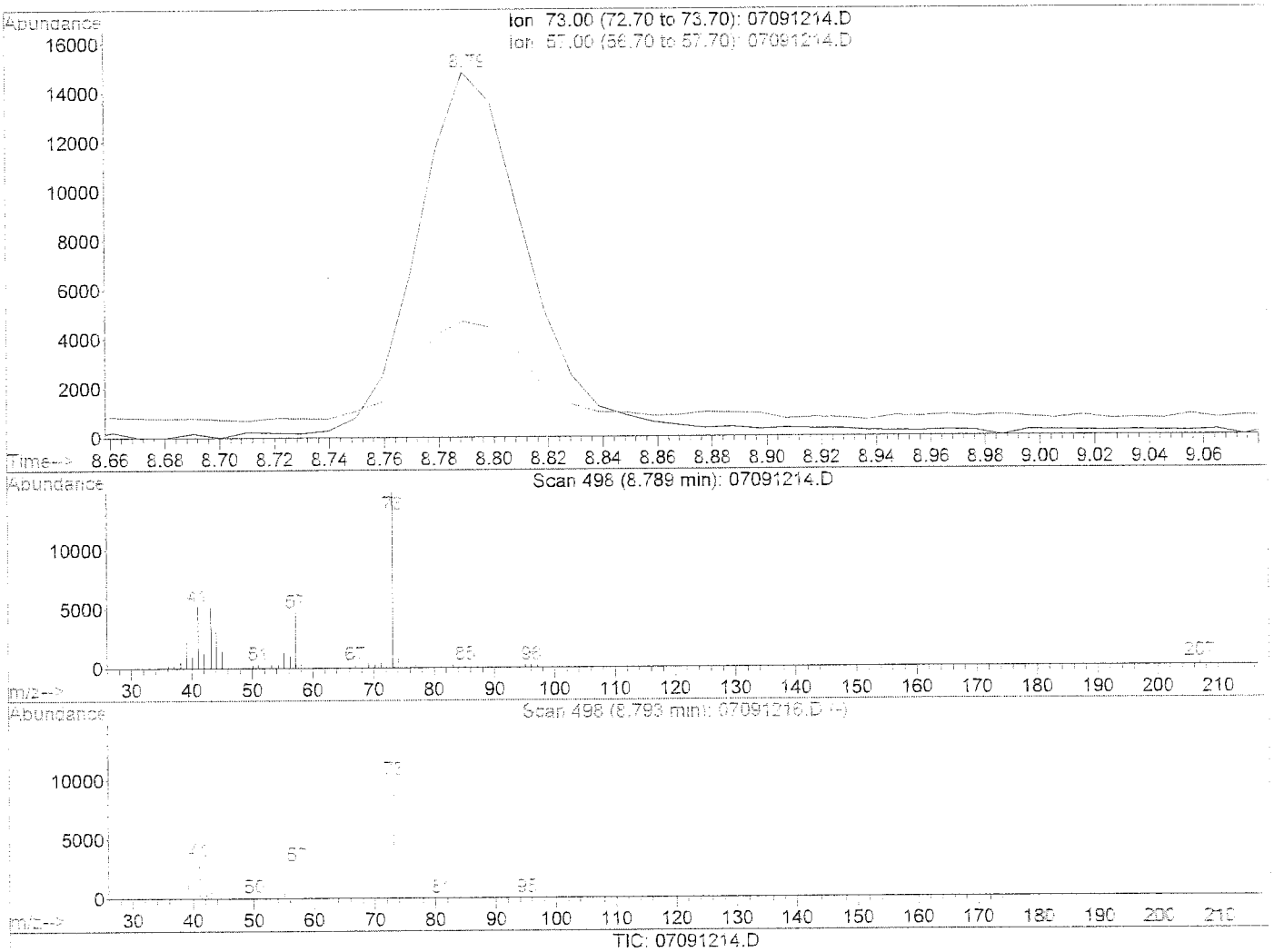
Ion	Exp%	Act%
84.00	100	100
49.05	184.90	207.82
86.00	59.70	68.68
0.00	0.00	0.00

A
MM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:10 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(19) MTBE (T)

8.79min 5.11ug/L

response 43736

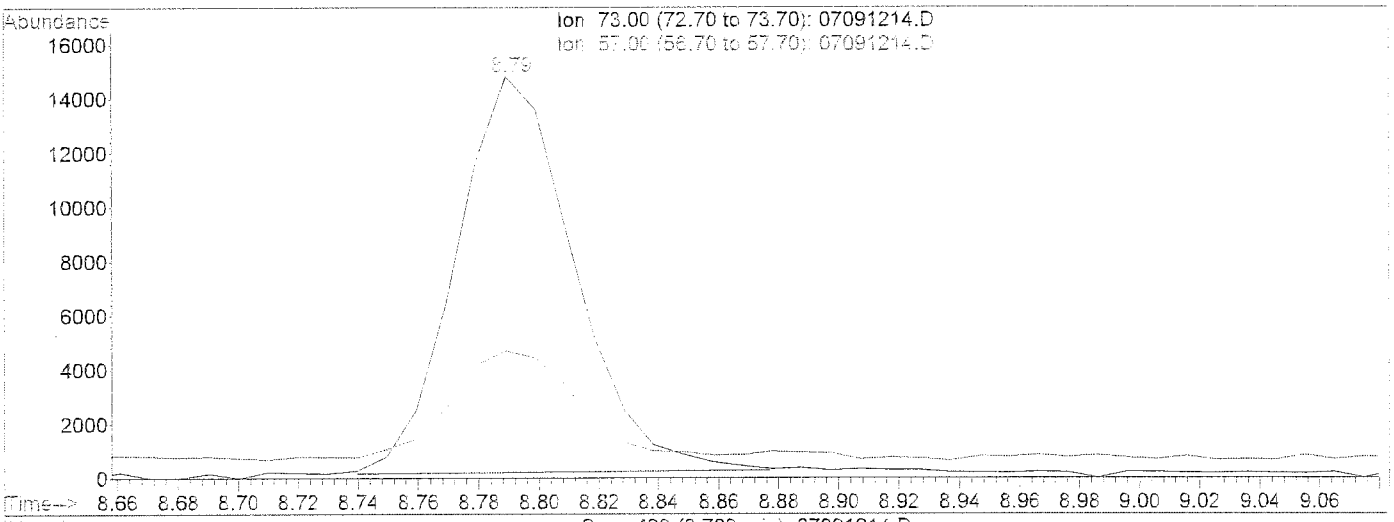
Ion	Exp%	Act%
73.00	100	100
57.00	28.40	27.19
0.00	0.00	0.00
0.00	0.00	0.00

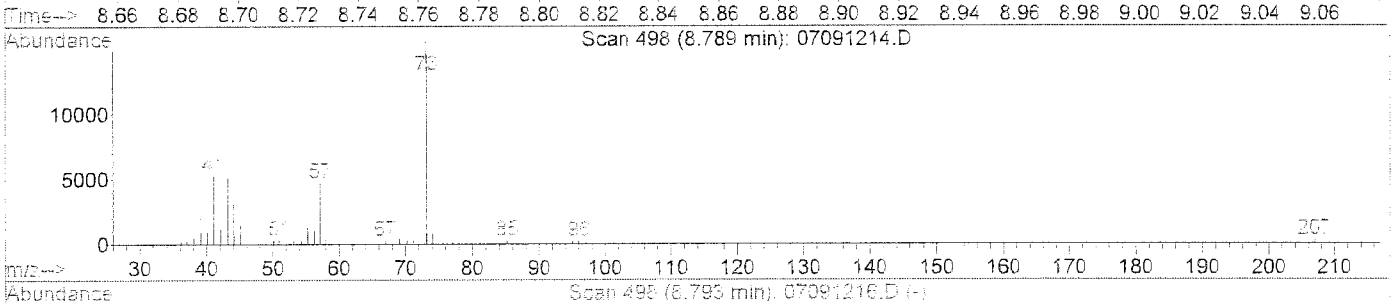
B
BL
MNM
7/11/12

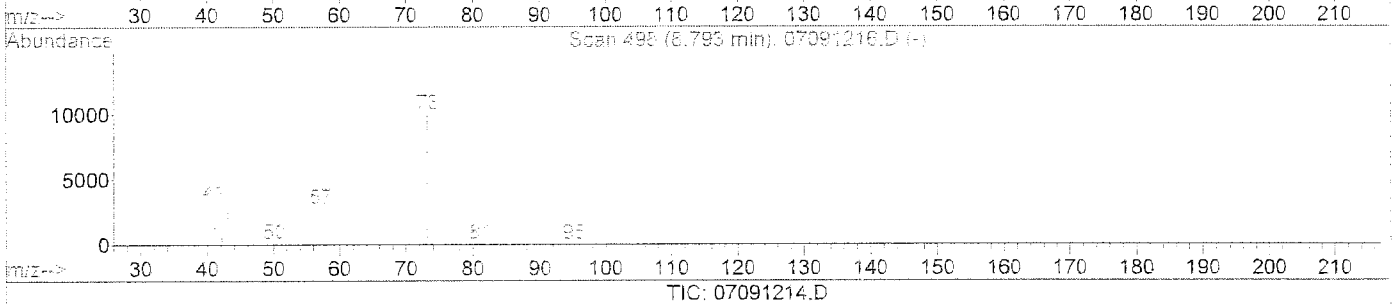
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091214.D

(19) MTBE (T)

8.79min 4.63ug/L m

response 39697

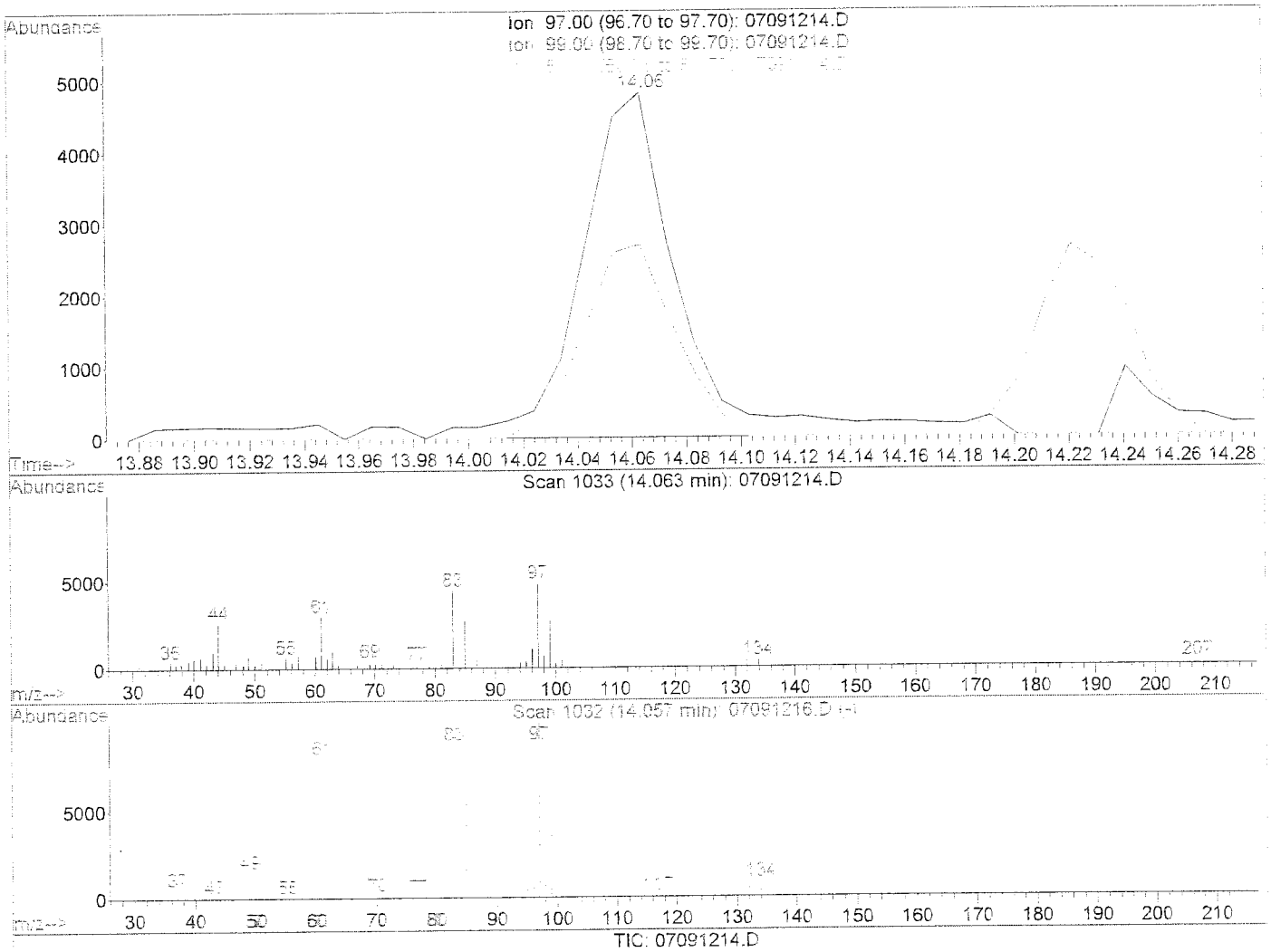
Ion	Exp%	Act%
73.00	100	100
57.00	28.40	29.96
0.00	0.00	0.00
0.00	0.00	0.00

A
MNM
7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:11 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.06min 6.01ug/L

response 12362

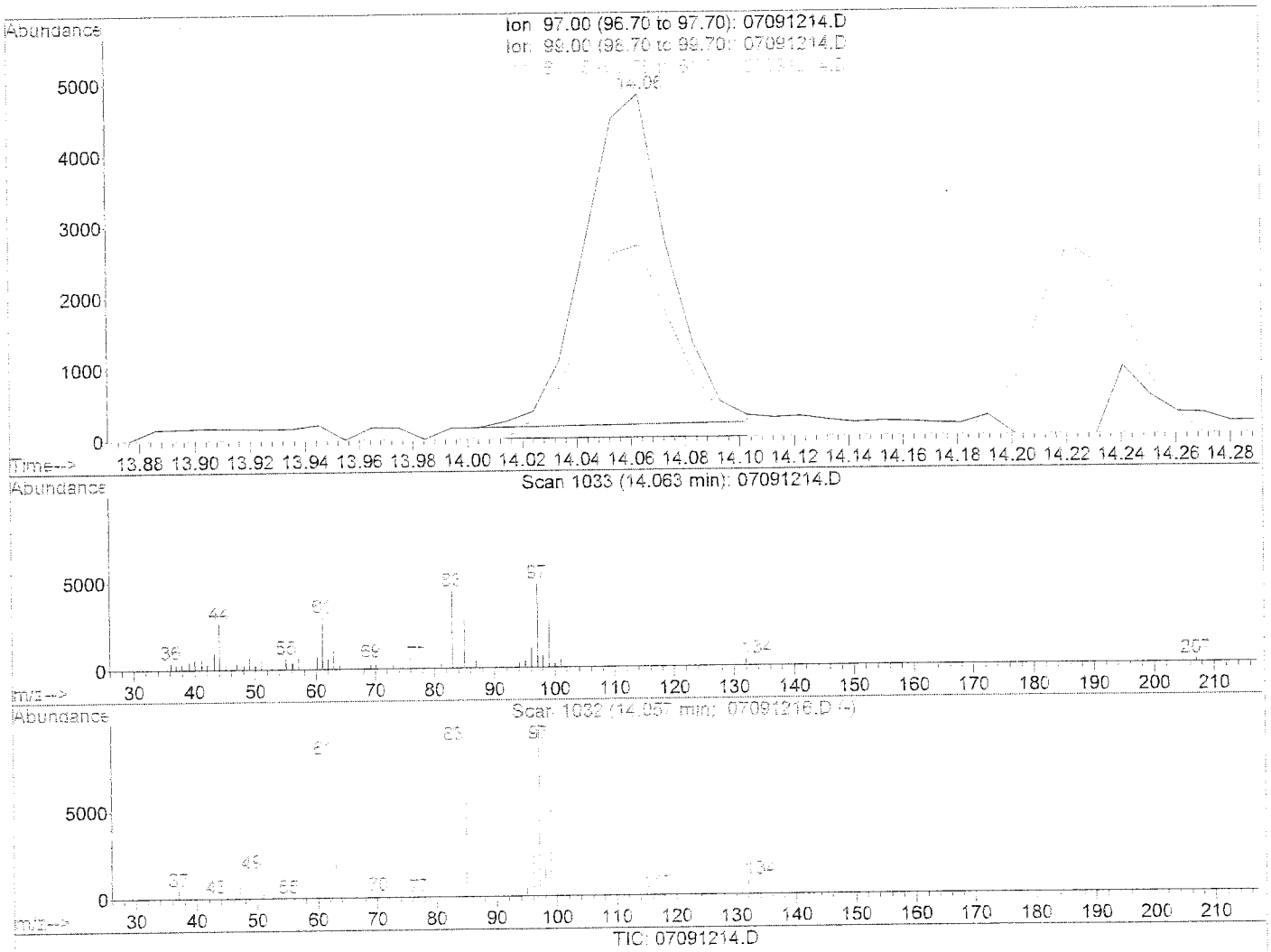
Ion	Exp%	Act%
97.00	100	100
99.00	60.00	51.65
61.05	77.30	63.03
0.00	0.00	0.00

B
BL
MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:12 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(47) 1,1,2-Trichloroethane (T)

14.06min 4.85ug/L m

response 9973

Ion	Exp%	Act%
97.00	100	100
99.00	60.00	64.02
61.05	77.30	78.13
0.00	0.00	0.00

A
MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:12 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	66744	200.00 ug/L	0.00
4) Pentafluorobenzene	10.67	168	149369	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	258584	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	190441	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	71155	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	13078	5.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.68%	
48) Toluene-d8	14.22	98	61152	5.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.36%	
62) 4-Bromofluorobenzene	17.88	95	18581	5.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.84%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	7.57	59	10816	25.60 ug/L #	92
5) Dichlorodifluoromethane	4.58	85	23034m	4.71 ug/L	
6) Chloromethane	4.86	50	45272	4.94 ug/L	96
7) Vinyl Chloride	5.17	62	40404	5.17 ug/L	97
8) 1,3-Butadiene	5.34	54	27916m	4.73 ug/L	
9) Bromomethane	5.77	94	15230m	4.77 ug/L	
10) Chloroethane	5.99	64	23342	4.97 ug/L	93
11) Trichlorofluoromethane	6.82	101	18074	5.17 ug/L	99
12) Acetone	6.97	43	12711	5.82 ug/L #	87
13) Iodomethane	7.62	142	20437	5.13 ug/L	100
14) 1,1-Dichloroethene	7.56	96	20346	5.42 ug/L	85
15) Methylene Chloride	7.74	84	17169m	4.34 ug/L	
16) Freon 113	7.82	101	18035	5.16 ug/L	98
17) Carbon disulfide	8.09	76	76369	5.07 ug/L #	56
18) trans-1,2-Dichloroethene	8.65	96	21982	5.23 ug/L	94
19) MTBE	8.79	73	39697m	4.63 ug/L	
20) 1,1-Dichloroethane	8.99	63	45988	5.12 ug/L	99
21) Vinyl Acetate	9.14	43	46289	4.87 ug/L	99
22) n-Hexane	9.50	86	8247	5.68 ug/L	89
23) 2-Butanone (MEK)	9.54	72	2336	4.98 ug/L #	74
24) Diisopropyl Ether (DIPE)	9.54	45	103133	5.12 ug/L	96
25) cis-1,2-Dichloroethene	9.74	96	20658	5.28 ug/L	93
26) Bromochloromethane	9.95	128	6415	5.13 ug/L	94
27) Chloroform	10.00	83	28766	4.97 ug/L	93
28) 2,2-Dichloropropane	10.12	77	23991	5.08 ug/L #	94
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	66539	5.11 ug/L	96
31) Tetrahydrofuran	10.45	72	2112	5.44 ug/L #	87
32) 1,2-Dichloroethane	10.86	62	17841	4.91 ug/L	98
33) 1,1,1-Trichloroethane	11.00	97	20607	4.83 ug/L	97
34) (TAME) tert-Amyl methyl et	11.71	73	48208	4.95 ug/L	99
36) 1,1-Dichloropropene	11.23	75	33867	5.07 ug/L	97
37) Carbon Tetrachloride	11.48	117	15510	5.10 ug/L	97
38) Benzene	11.53	78	89478	5.14 ug/L	100
39) Dibromomethane	12.26	93	7516	4.95 ug/L	95
40) 1,2-Dichloropropane	12.31	63	23933	5.15 ug/L	98

(#) = qualifier out of range (m) = manual integration
07091214.D 070912.M Wed Jul 11 07:12:42 2012

7/11/12

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:12 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	18921	5.47 ug/L	97
42) Bromodichloromethane	12.43	83	18875	4.83 ug/L	88
43) 2-Chlorovinylethylether	12.95	63	8555	4.78 ug/L	98
44) cis-1,3-Dichloropropene	13.26	75	29449	5.01 ug/L	96
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	20094	4.65 ug/L	96
46) trans-1,3-Dichloropropene	13.84	75	21941	4.96 ug/L #	94
47) 1,1,2-Trichloroethane	14.06	97	9973m	4.85 ug/L	
49) Toluene	14.32	92	47148	5.15 ug/L	98
51) 1,3-Dichloropropane	14.38	76	22914	4.97 ug/L	98
52) 2-Hexanone	14.57	43	15134	4.74 ug/L	98
53) Dibromochloromethane	14.75	129	9737	4.95 ug/L	98
54) 1,2-Dibromoethane	15.10	107	9440	4.99 ug/L	96
55) Tetrachloroethene	15.32	164	12383	5.16 ug/L	96
56) 1,1,1,2-Tetrachloroethane	16.13	131	10769	5.05 ug/L	94
57) Chlorobenzene	16.24	112	38999	5.10 ug/L	94
58) Ethylbenzene	16.50	91	84566	5.21 ug/L	99
59) m,p-Xylenes	16.75	106	29842	5.18 ug/L	98
60) Styrene	17.22	104	40649	5.06 ug/L	98
61) o-Xylene	17.32	106	26494	5.16 ug/L	99
64) Bromoform	16.94	173	5088	4.67 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.30	83	14243	4.81 ug/L	95
66) 1,2,3-Trichloropropane	17.50	110	2898	4.93 ug/L #	80
67) trans-1,4-Dichloro-2-buten	17.52	53	5119	4.83 ug/L	93
68) Isopropylbenzene	17.82	105	66665	5.02 ug/L	99
69) Bromobenzene	18.18	156	11965	4.98 ug/L	88
70) n-Propylbenzene	18.43	91	94238	5.02 ug/L	99
71) 2-Chlorotoluene	18.58	91	49500	4.97 ug/L	100
72) 4-Chlorotoluene	18.68	91	47667	4.99 ug/L	100
73) 1,3,5-Trimethylbenzene	18.82	105	52488	5.16 ug/L	100
74) tert-Butylbenzene	19.21	119	46140	5.30 ug/L	100
75) 1,2,4-Trimethylbenzene	19.35	105	50271	5.16 ug/L	100
76) sec-Butylbenzene	19.49	105	77867	5.19 ug/L	100
77) 1,3-Dichlorobenzene	19.59	146	23831	5.12 ug/L	99
78) 1,4-Dichlorobenzene	19.68	146	22721	5.05 ug/L	98
79) p-Isopropyltoluene	19.71	119	56594	5.29 ug/L	99
80) 1,2-Dichlorobenzene	20.12	146	19722	5.29 ug/L	99
81) n-Butylbenzene	20.21	91	62080	5.29 ug/L	99
82) 1,2-Dibromo-3-chloropropan	20.69	75	1740	4.34 ug/L	99
83) 1,2,4-Trichlorobenzene	22.44	180	9515	5.55 ug/L	97
84) Napthalene	22.80	128	20126	5.31 ug/L	99
85) Hexachlorobutadiene	22.84	225	6147	6.12 ug/L >	91
86) 1,2,3-Trichlorobenzene	23.07	180	7414	5.64 ug/L	98

2

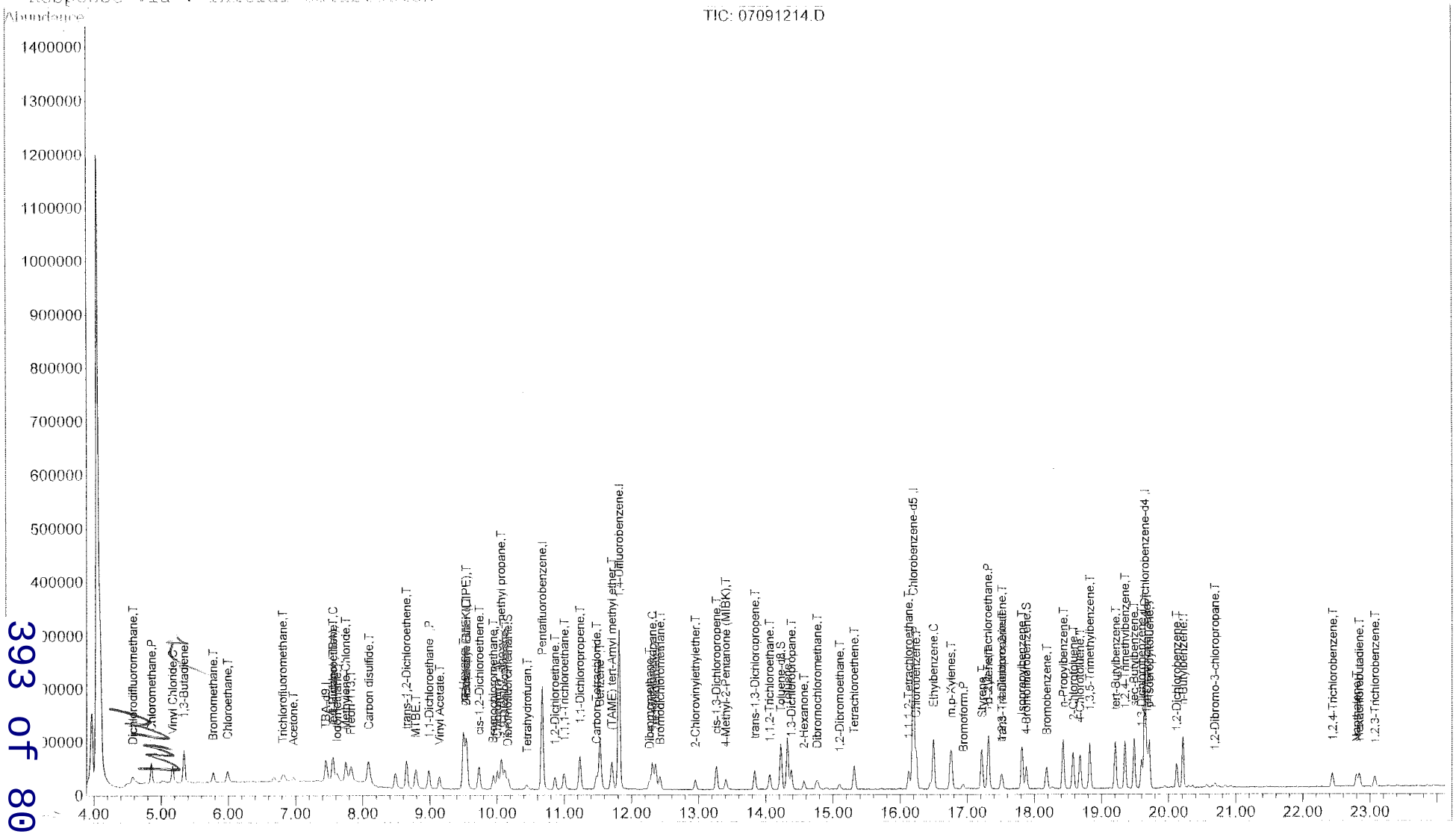
MM

(#) = qualifier out of range (m) = manual integration
07091214.D 070912.M Wed Jul 11 07:12:43 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091214.D Vial: 8
Acq On : 9 Jul 2012 12:35 pm Operator: MNM
Sample : 5.0 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 7:12 2012 Quant Results File: 070912.RES

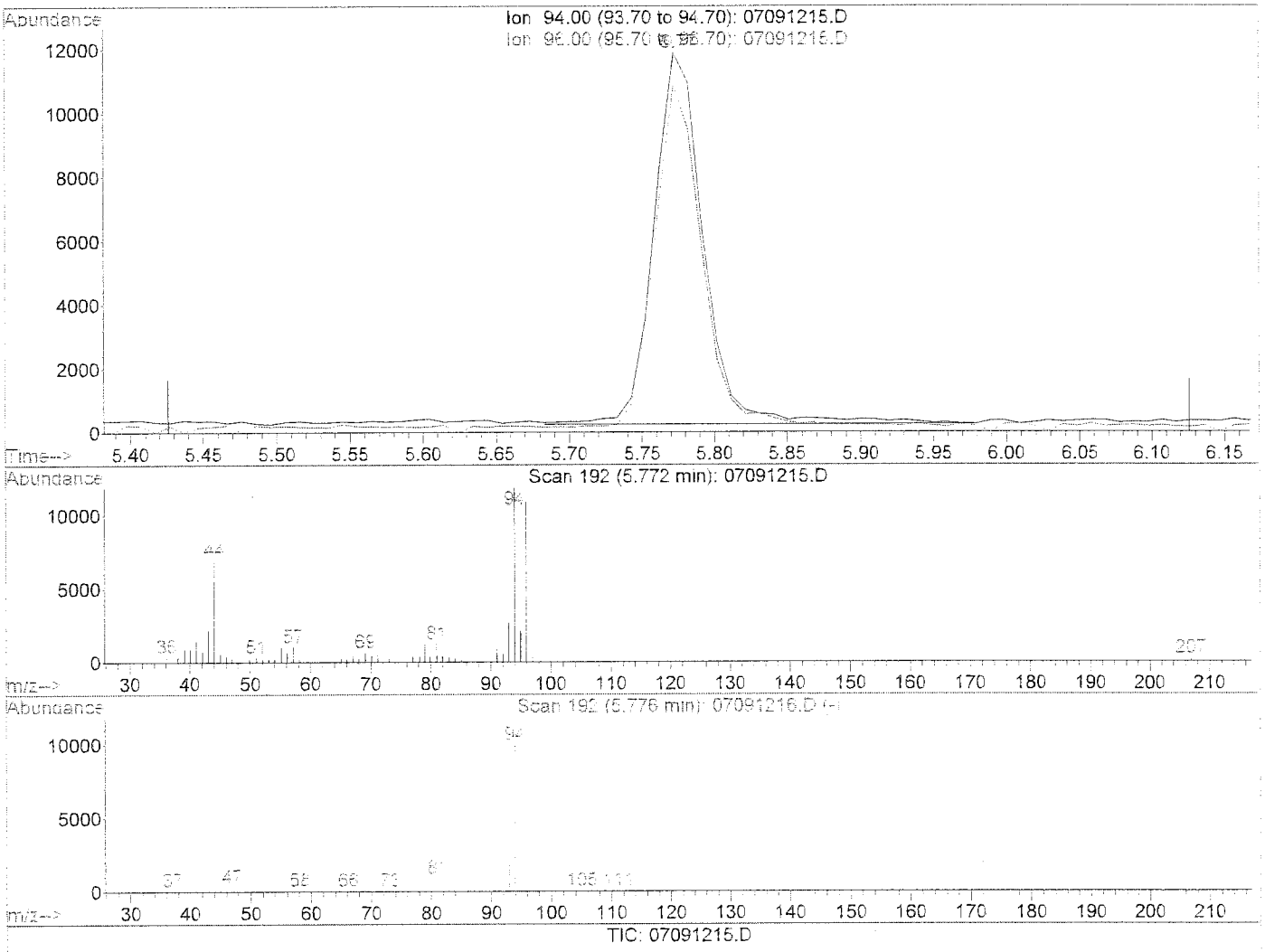
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(9) Bromomethane (T)

5.77min 9.42ug/L

response 27863

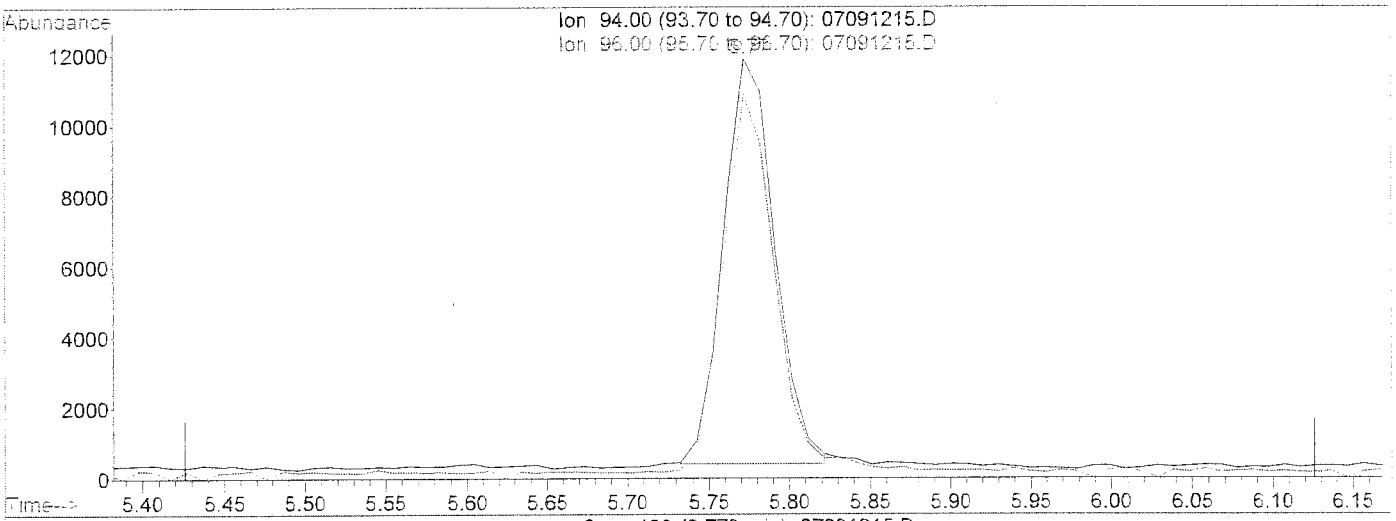
Ion	Exp%	Act%
94.00	100	100
96.00	96.00	91.34
0.00	0.00	0.00
0.00	0.00	0.00

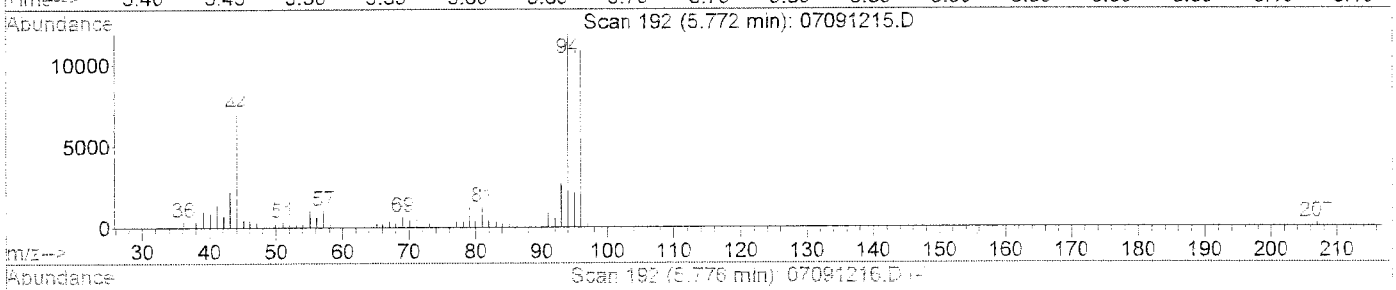
B 7/11/12
BL
MM 7/11/12

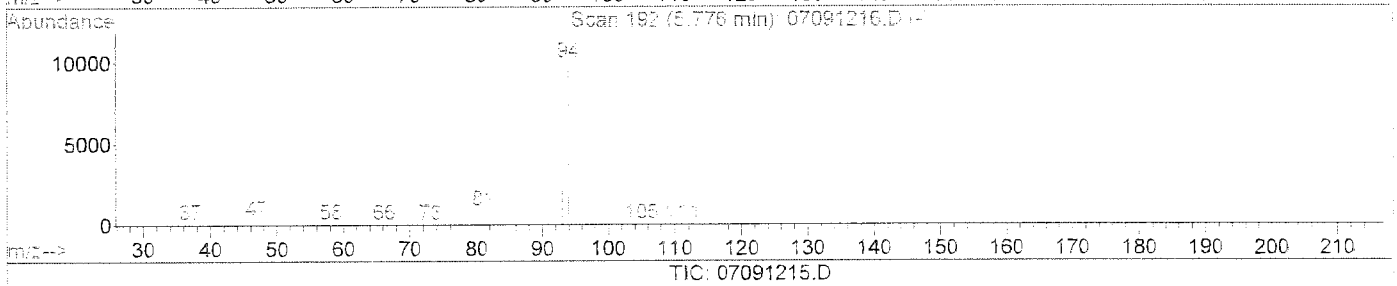
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 10:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 07091215.D

(9) Bromomethane (T)

5.77min 8.59ug/L m

response 25421

Ion	Exp%	Act%
94.00	100	100
96.00	96.00	100.11
0.00	0.00	0.00
0.00	0.00	0.00

A 7/11/12

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 10:46 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	72976	200.00 ug/L	0.00
4) Pentafluorobenzene	10.67	168	138454	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	241405	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.19	117	178298	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	67331	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	24601	10.49 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.96%	
48) Toluene-d8	14.22	98	111161	10.39 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.56%	
62) 4-Bromofluorobenzene	17.88	95	33407	10.48 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.92%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	6013	103.34 ug/L	97
3) tert-Butanol (TBA)	7.57	59	21180	45.84 ug/L	97
5) Dichlorodifluoromethane	4.58	85	41141	9.07 ug/L	98
6) Chloromethane	4.86	50	76454	9.00 ug/L	97
7) Vinyl Chloride	5.17	62	66412	9.17 ug/L	97
8) 1,3-Butadiene	5.34	54	51541	9.41 ug/L	97
9) Bromomethane	5.77	94	25421m	8.59 ug/L	
10) Chloroethane	5.99	64	38449	8.84 ug/L	96
11) Trichlorofluoromethane	6.82	101	30564	9.44 ug/L	98
12) Acetone	6.96	43	21237	10.49 ug/L	94
13) Iodomethane	7.62	142	34427	9.31 ug/L	99
14) 1,1-Dichloroethene	7.56	96	30505	8.76 ug/L	97
15) Methylene Chloride	7.74	84	33662	9.57 ug/L	97
16) Freon 113	7.82	101	29317	9.06 ug/L	99
17) Carbon disulfide	8.08	76	127190	9.11 ug/L #	76
18) trans-1,2-Dichloroethene	8.65	96	35886	9.48 ug/L	96
19) MTBE	8.79	73	72920	9.18 ug/L	100
20) 1,1-Dichloroethane	8.99	63	76763	9.22 ug/L	99
21) Vinyl Acetate	9.14	43	81948	9.30 ug/L	100
22) n-Hexane	9.50	86	12119	9.00 ug/L	94
23) 2-Butanone (MEK)	9.54	72	4346	10.00 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.54	45	173637	9.29 ug/L #	50
25) cis-1,2-Dichloroethene	9.74	96	33717	9.49 ug/L	97
26) Bromochloromethane	9.95	128	11398	9.83 ug/L	83
27) Chloroform	10.00	83	47954	8.93 ug/L	98
28) 2,2-Dichloropropane	10.12	77	43311	10.18 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	113743	9.42 ug/L	96
31) Tetrahydrofuran	10.44	72	3688	10.24 ug/L	95
32) 1,2-Dichloroethane	10.86	62	31681	9.41 ug/L	99
33) 1,1,1-Trichloroethane	11.00	97	34415	9.12 ug/L	99
34) (TAME) tert-Amyl methyl et	11.71	73	82048	9.08 ug/L	99
36) 1,1-Dichloropropene	11.23	75	57113	9.15 ug/L	97
37) Carbon Tetrachloride	11.48	117	26502	9.33 ug/L	99
38) Benzene	11.53	78	148304	9.13 ug/L	100
39) Dibromomethane	12.27	93	12651	8.93 ug/L	98
40) 1,2-Dichloropropane	12.31	63	39791	9.17 ug/L	100

(#) = qualifier out of range (m) = manual integration
07091215.D 070912.M Wed Jul 11 10:47:05 2012

7/11/12

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 10:46 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.36	95	31365	9.71 ug/L	97
42)	Bromodichloromethane	12.43	83	33518	9.18 ug/L	97
43)	2-Chlorovinylethylether	12.95	63	15393	9.21 ug/L	98
44)	cis-1,3-Dichloropropene	13.26	75	50522	9.20 ug/L	97
45)	4-Methyl-2-Pentanone (MIBK	13.40	43	40075	9.93 ug/L	100
46)	trans-1,3-Dichloropropene	13.84	75	38391	9.29 ug/L	97
47)	1,1,2-Trichloroethane	14.06	97	18935	9.87 ug/L	96
49)	Toluene	14.32	92	79750	9.33 ug/L	99
51)	1,3-Dichloropropane	14.38	76	40231	9.32 ug/L	100
52)	2-Hexanone	14.57	43	31025	10.37 ug/L	96
53)	Dibromochloromethane	14.76	129	16790	9.12 ug/L	99
54)	1,2-Dibromoethane	15.10	107	16541	9.34 ug/L	100
55)	Tetrachloroethene	15.31	164	20453	9.10 ug/L	99
56)	1,1,1,2-Tetrachloroethane	16.13	131	18132	9.08 ug/L	96
57)	Chlorobenzene	16.24	112	65255	9.11 ug/L	98
58)	Ethylbenzene	16.50	91	139411	9.17 ug/L	99
59)	m,p-Xylenes	16.75	106	48974	9.08 ug/L	98
60)	Styrene	17.22	104	70538	9.37 ug/L	99
61)	o-Xylene	17.32	106	44378	9.24 ug/L	99
64)	Bromoform	16.94	173	8966	8.69 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.31	83	24968	8.92 ug/L	96
66)	1,2,3-Trichloropropane	17.51	110	5135	9.23 ug/L #	87
67)	trans-1,4-Dichloro-2-buten	17.52	53	8750	8.72 ug/L	97
68)	Isopropylbenzene	17.82	105	108579	8.64 ug/L	99
69)	Bromobenzene	18.18	156	20372	8.96 ug/L	96
70)	n-Propylbenzene	18.43	91	156010	8.78 ug/L	99
71)	2-Chlorotoluene	18.58	91	83009	8.80 ug/L	99
72)	4-Chlorotoluene	18.68	91	79298	8.77 ug/L	99
73)	1,3,5-Trimethylbenzene	18.82	105	85584	8.89 ug/L	99
74)	tert-Butylbenzene	19.21	119	74810	9.08 ug/L	100
75)	1,2,4-Trimethylbenzene	19.35	105	83016	9.01 ug/L	99
76)	sec-Butylbenzene	19.48	105	127930	9.01 ug/L	99
77)	1,3-Dichlorobenzene	19.59	146	39769	9.02 ug/L	97
78)	1,4-Dichlorobenzene	19.68	146	39371	9.24 ug/L	99
79)	p-Isopropyltoluene	19.71	119	93657	9.24 ug/L	99
80)	1,2-Dichlorobenzene	20.12	146	33849	9.59 ug/L	99
81)	n-Butylbenzene	20.21	91	100945	9.10 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.69	75	3330	10.61 ug/L	96
83)	1,2,4-Trichlorobenzene	22.44	180	16834	10.38 ug/L	97
84)	Napthalene	22.80	128	37589	10.47 ug/L	100
85)	Hexachlorobutadiene	22.85	225	9666	10.37 ug/L	97
86)	1,2,3-Trichlorobenzene	23.07	180	13539	10.88 ug/L	99

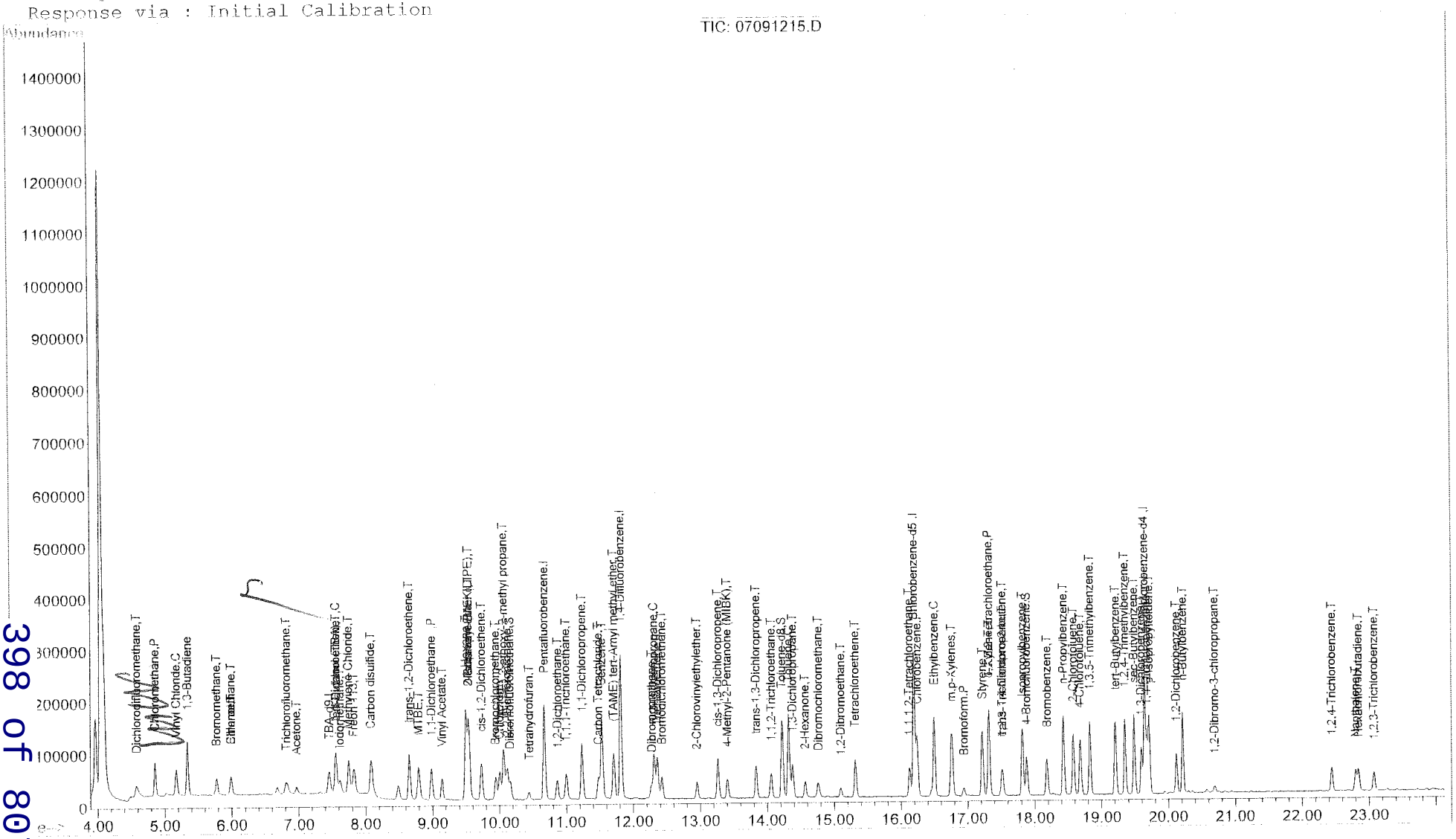
MNM

(#) = qualifier out of range (m) = manual integration
07091215.D 070912.M Wed Jul 11 10:47:05 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091215.D Vial: 9
Acq On : 9 Jul 2012 1:09 pm Operator: MNM
Sample : 10 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 10:46 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	55705	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	132566	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	228841	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	167611	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	61145	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	59537	26.50 ug/L	0.00
Spiked Amount 25.000			Recovery	= 106.00%	
48) Toluene-d8	14.22	98	277599	27.38 ug/L	0.00
Spiked Amount 25.000			Recovery	= 109.52%	
62) 4-Bromofluorobenzene	17.88	95	78963	26.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.36%	
Target Compounds					Qvalue
2) Ethanol	5.99	45	11194	252.03 ug/L	100
3) tert-Butanol (TBA)	7.56	59	44548	126.32 ug/L	100
5) Dichlorodifluoromethane	4.58	85	114290	26.31 ug/L	100
6) Chloromethane	4.86	50	216283	26.59 ug/L	100
7) Vinyl Chloride	5.17	62	189151	27.27 ug/L	100
8) 1,3-Butadiene	5.34	54	140816	26.86 ug/L	100
9) Bromomethane	5.78	94	74877	26.43 ug/L	100
10) Chloroethane	5.98	64	106228	25.50 ug/L	100
11) Trichlorofluoromethane	6.82	101	84019	27.10 ug/L	100
12) Acetone	6.97	43	45039	23.24 ug/L	100
13) Iodomethane	7.62	142	94281	26.64 ug/L	100
14) 1,1-Dichloroethene	7.55	96	82936	24.88 ug/L	100
15) Methylene Chloride	7.75	84	86924	26.41 ug/L	100
16) Freon 113	7.83	101	84782	27.36 ug/L	100
17) Carbon disulfide	8.08	76	354418	26.51 ug/L	100
18) trans-1,2-Dichloroethene	8.65	96	95231	26.89 ug/L	100
19) MTBE	8.79	73	183309	24.11 ug/L	100
20) 1,1-Dichloroethane	8.98	63	212365	26.65 ug/L	100
21) Vinyl Acetate	9.14	43	209728	24.85 ug/L	100
22) n-Hexane	9.50	86	34753	26.95 ug/L	100
23) 2-Butanone (MEK)	9.54	72	10638	25.57 ug/L #	100
24) Diisopropyl Ether (DIPE)	9.54	45	461290	25.79 ug/L	100
25) cis-1,2-Dichloroethene	9.73	96	88944	26.56 ug/L	100
26) Bromochloromethane	9.95	128	30103	27.11 ug/L	100
27) Chloroform	10.01	83	133752	26.03 ug/L	100
28) 2,2-Dichloropropane	10.11	77	112604	28.16 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	294600	25.48 ug/L	100
31) Tetrahydrofuran	10.44	72	8242	23.91 ug/L	100
32) 1,2-Dichloroethane	10.86	62	84114	26.08 ug/L	100
33) 1,1,1-Trichloroethane	11.00	97	97505	28.05 ug/L	100
34) (TAME) tert-Amyl methyl et	11.71	73	208493	24.10 ug/L	100
36) 1,1-Dichloropropene	11.24	75	159249	26.92 ug/L	100
37) Carbon Tetrachloride	11.48	117	72666	27.00 ug/L	100
38) Benzene	11.53	78	407125	26.43 ug/L	100
39) Dibromomethane	12.26	93	34000	25.31 ug/L	100
40) 1,2-Dichloropropane	12.31	63	107707	26.18 ug/L	100

(#) = qualifier out of range (m) = manual integration
07091216.D 070912.M Wed Jul 11 08:15:28 2012

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	86694	28.32 ug/L	100
42) Bromodichloromethane	12.42	83	89013	25.72 ug/L	100
43) 2-Chlorovinylethylether	12.95	63	39033	24.64 ug/L	100
44) cis-1,3-Dichloropropene	13.27	75	136365	26.20 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	13.41	43	90807	23.73 ug/L	100
46) trans-1,3-Dichloropropene	13.83	75	102066	26.05 ug/L	100
47) 1,1,2-Trichloroethane	14.06	97	47349	26.03 ug/L	100
49) Toluene	14.32	92	217236	26.81 ug/L	100
51) 1,3-Dichloropropane	14.38	76	104502	25.77 ug/L	100
52) 2-Hexanone	14.57	43	71357	25.37 ug/L	100
53) Dibromochloromethane	14.76	129	45185	26.12 ug/L	100
54) 1,2-Dibromoethane	15.10	107	42851	25.73 ug/L	100
55) Tetrachloroethene	15.32	164	57313	27.11 ug/L	100
56) 1,1,1,2-Tetrachloroethane	16.13	131	49929	26.61 ug/L	100
57) Chlorobenzene	16.25	112	178408	26.49 ug/L	100
58) Ethylbenzene	16.49	91	380571	26.62 ug/L	100
59) m,p-Xylenes	16.76	106	136598	26.95 ug/L	100
60) Styrene	17.22	104	192242	27.18 ug/L	100
61) o-Xylene	17.32	106	120662	26.72 ug/L	100
64) Bromoform	16.94	173	24150	25.78 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.30	83	61675	24.26 ug/L	100
66) 1,2,3-Trichloropropane	17.51	110	12426	24.59 ug/L	100
67) trans-1,4-Dichloro-2-buten	17.52	53	22184	24.35 ug/L	100
68) Isopropylbenzene	17.81	105	300463	26.32 ug/L	100
69) Bromobenzene	18.19	156	55594	26.93 ug/L	100
70) n-Propylbenzene	18.42	91	429904	26.63 ug/L	100
71) 2-Chlorotoluene	18.58	91	225655	26.34 ug/L	100
72) 4-Chlorotoluene	18.68	91	216427	26.35 ug/L	100
73) 1,3,5-Trimethylbenzene	18.83	105	237459	27.17 ug/L	100
74) tert-Butylbenzene	19.20	119	206389	27.59 ug/L	100
75) 1,2,4-Trimethylbenzene	19.35	105	226796	27.10 ug/L	100
76) sec-Butylbenzene	19.49	105	350078	27.14 ug/L	100
77) 1,3-Dichlorobenzene	19.60	146	109191	27.28 ug/L	100
78) 1,4-Dichlorobenzene	19.69	146	105211	27.19 ug/L	100
79) p-Isopropyltoluene	19.72	119	254655	27.68 ug/L	100
80) 1,2-Dichlorobenzene	20.12	146	88972	27.77 ug/L	100
81) n-Butylbenzene	20.21	91	278867	27.68 ug/L	100
82) 1,2-Dibromo-3-chloropropan	20.69	75	7511	29.42 ug/L	100
83) 1,2,4-Trichlorobenzene	22.45	180	45946	31.20 ug/L	100
84) Napthalene	22.80	128	93788	28.78 ug/L	100
85) Hexachlorobutadiene	22.84	225	25858	31.70 ug/L	100
86) 1,2,3-Trichlorobenzene	23.08	180	35425	31.36 ug/L	100

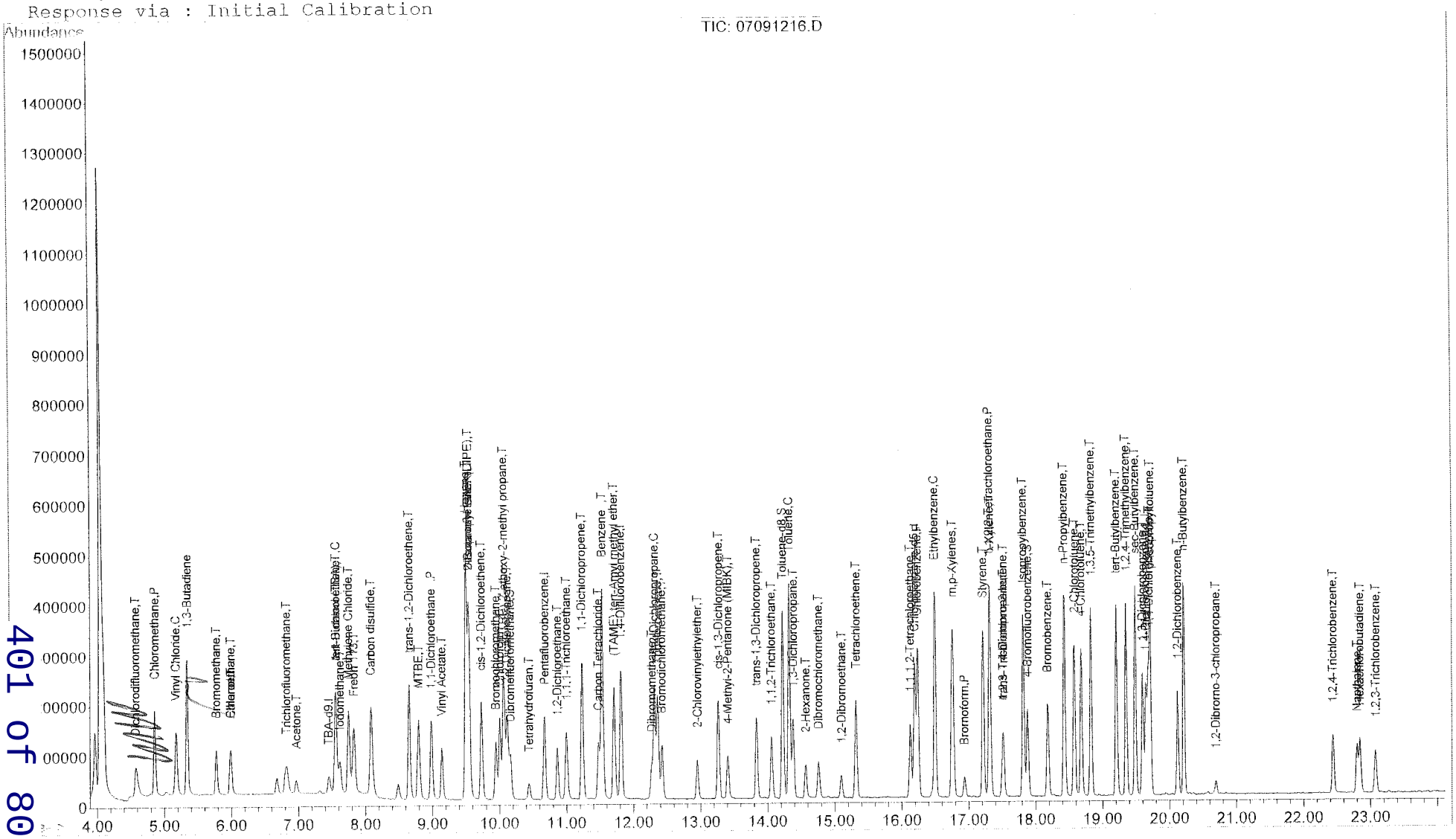
MM

(#) = qualifier out of range (m) = manual integration
07091216.D 070912.M Wed Jul 11 08:15:29 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091216.D Vial: 10
Acq On : 9 Jul 2012 1:42 pm Operator: MNM
Sample : 25 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:15 2012 Quant Results File: 070912.RES

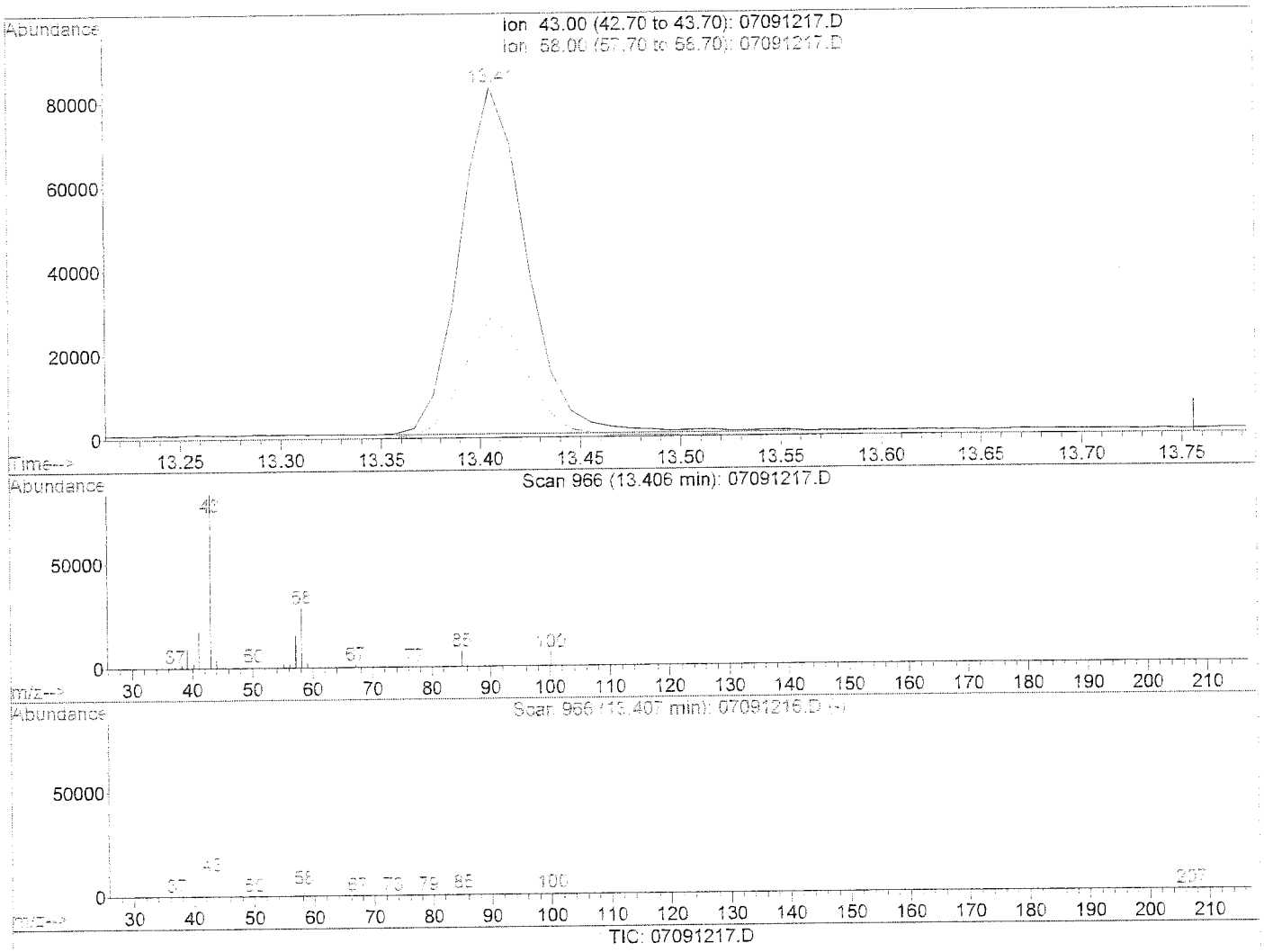
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(45) 4-Methyl-2-Pentanone (MIBK) (T)

13.41min 44.70ug/L

response 191969

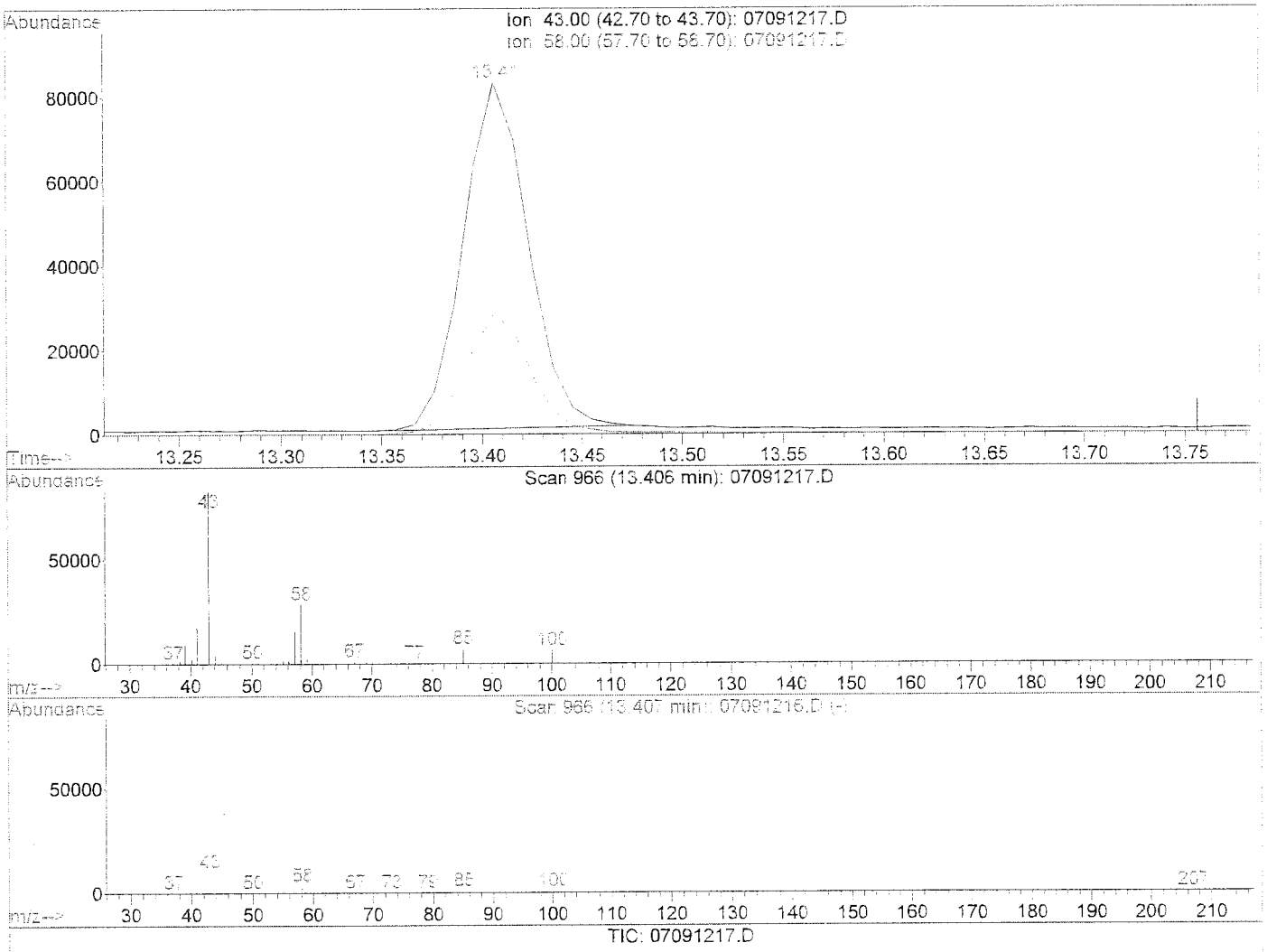
Ion	Exp%	Act%
43.00	100	100
58.00	34.90	34.46
0.00	0.00	0.00
0.00	0.00	0.00

BL MM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(45) 4-Methyl-2-Pentanone (MIBK) (T)

13.41min 42.95ug/L m

response 184476

Ion	Exp%	Act%
43.00	100	100
58.00	34.90	35.86
0.00	0.00	0.00
0.00	0.00	0.00

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:16 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.46	65	67282	200.00	ug/L	0.00
4) Pentafluorobenzene	10.68	168	148658	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	256789	25.00	ug/L	0.00
50) Chlorobenzene-d5	16.20	117	184456	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	68118	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	10.17	113	103089	40.92	ug/L	0.00
Spiked Amount 25.000			Recovery	=	163.68%	
48) Toluene-d8	14.22	98	453876	39.90	ug/L	0.00
Spiked Amount 25.000			Recovery	=	159.60%	
62) 4-Bromofluorobenzene	17.88	95	133706	40.53	ug/L	0.00
Spiked Amount 25.000			Recovery	=	162.12%	

Target Compounds						Qvalue
2) Ethanol	6.00	45	25326	472.09	ug/L	84
3) tert-Butanol (TBA)	7.57	59	95029	223.10	ug/L	98
5) Dichlorodifluoromethane	4.57	85	209917	43.09	ug/L	100
6) Chloromethane	4.86	50	395265	43.33	ug/L	99
7) Vinyl Chloride	5.18	62	337798	43.43	ug/L	99
8) 1,3-Butadiene	5.34	54	250220	42.57	ug/L	98
9) Bromomethane	5.78	94	137621	43.32	ug/L	97
10) Chloroethane	5.99	64	191636	41.03	ug/L	99
11) Trichlorofluoromethane	6.82	101	155949	44.86	ug/L	97
12) Acetone	6.97	43	97316	44.78	ug/L	91
13) Iodomethane	7.62	142	175060	44.11	ug/L	99
14) 1,1-Dichloroethene	7.56	96	149837	40.08	ug/L	100
15) Methylene Chloride	7.75	84	161888	44.09	ug/L	99
16) Freon 113	7.83	101	152831	43.97	ug/L	100
17) Carbon disulfide	8.08	76	644686	43.00	ug/L	94
18) trans-1,2-Dichloroethene	8.65	96	176142	44.58	ug/L	99
19) MTBE	8.79	73	366897	43.04	ug/L	99
20) 1,1-Dichloroethane	8.99	63	393342	44.01	ug/L	100
21) Vinyl Acetate	9.15	43	420649	44.45	ug/L	100
22) n-Hexane	9.50	86	63145	43.67	ug/L	98
23) 2-Butanone (MEK)	9.54	72	22384	47.98	ug/L #	1
24) Diisopropyl Ether (DIPE)	9.54	45	883689	44.05	ug/L #	51
25) cis-1,2-Dichloroethene	9.74	96	164351	43.92	ug/L	99
26) Bromochloromethane	9.95	128	56800	45.61	ug/L	81
27) Chloroform	10.00	83	249456	43.28	ug/L	99
28) 2,2-Dichloropropane	10.12	77	193900	43.40	ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	580123	44.74	ug/L	96
31) Tetrahydrofuran	10.44	72	17240	44.60	ug/L	98
32) 1,2-Dichloroethane	10.86	62	161134	44.55	ug/L	100
33) 1,1,1-Trichloroethane	11.00	97	174177	44.99	ug/L	99
34) (TAME) tert-Amyl methyl et	11.71	73	412562	42.52	ug/L	99
36) 1,1-Dichloropropene	11.24	75	291316	43.89	ug/L	99
37) Carbon Tetrachloride	11.48	117	135064	44.72	ug/L	99
38) Benzene	11.53	78	756753	43.78	ug/L	100
39) Dibromomethane	12.27	93	65568	43.49	ug/L	97
40) 1,2-Dichloropropane	12.31	63	201743	43.71	ug/L	100

(#) = qualifier out of range (m) = manual integration
07091217.D 070912.M Wed Jul 11 08:16:39 2012

BAK

MM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:16 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

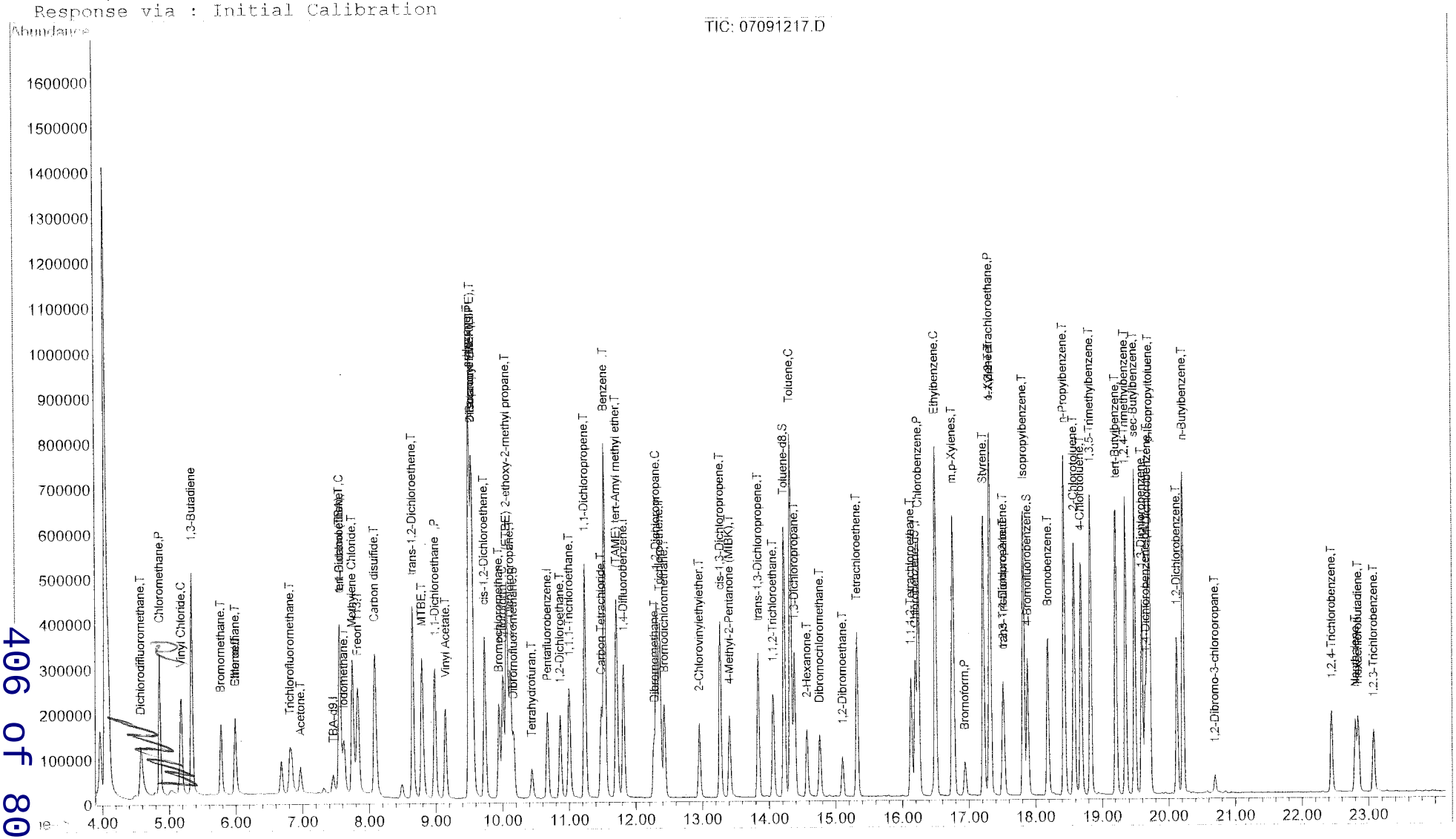
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.36	95	155027	45.13 ug/L	95
42)	Bromodichloromethane	12.43	83	168197	43.32 ug/L	98
43)	2-Chlorovinylethylether	12.95	63	81158	45.66 ug/L	98
44)	cis-1,3-Dichloropropene	13.27	75	262609	44.96 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	184476m	42.95 ug/L	
46)	trans-1,3-Dichloropropene	13.84	75	201212	45.76 ug/L	99
47)	1,1,2-Trichloroethane	14.07	97	92243	45.19 ug/L	98
49)	Toluene	14.32	92	401473	44.16 ug/L	99
51)	1,3-Dichloropropane	14.38	76	205414	46.02 ug/L	99
52)	2-Hexanone	14.57	43	153045	49.44 ug/L	99
53)	Dibromochloromethane	14.76	129	88676	46.57 ug/L	100
54)	1,2-Dibromoethane	15.10	107	84524	46.13 ug/L	98
55)	Tetrachloroethene	15.32	164	106291	45.69 ug/L	100
56)	1,1,1,2-Tetrachloroethane	16.13	131	92986	45.02 ug/L	98
57)	Chlorobenzene	16.25	112	336456	45.39 ug/L	99
58)	Ethylbenzene	16.50	91	703411	44.70 ug/L	99
59)	m,p-Xylenes	16.76	106	253606	45.47 ug/L	100
60)	Styrene	17.22	104	357402	45.91 ug/L	99
61)	o-Xylene	17.32	106	223526	44.99 ug/L	99
64)	Bromoform	16.95	173	48292	46.28 ug/L	98
65)	1,1,2,2-Tetrachloroethane	17.31	83	119874	42.33 ug/L	98
66)	1,2,3-Trichloropropane	17.51	110	24287	43.14 ug/L	94
67)	trans-1,4-Dichloro-2-buten	17.53	53	43944	43.30 ug/L	99
68)	Isopropylbenzene	17.82	105	550047	43.25 ug/L	99
69)	Bromobenzene	18.19	156	102606	44.61 ug/L	97
70)	n-Propylbenzene	18.43	91	783176	43.55 ug/L	100
71)	2-Chlorotoluene	18.58	91	409107	42.87 ug/L	99
72)	4-Chlorotoluene	18.68	91	393709	43.02 ug/L	100
73)	1,3,5-Trimethylbenzene	18.83	105	421938	43.33 ug/L	100
74)	tert-Butylbenzene	19.21	119	357017	42.83 ug/L	100
75)	1,2,4-Trimethylbenzene	19.35	105	400567	42.96 ug/L	100
76)	sec-Butylbenzene	19.49	105	618041	43.01 ug/L	99
77)	1,3-Dichlorobenzene	19.60	146	198248	44.47 ug/L	100
78)	1,4-Dichlorobenzene	19.69	146	192701	44.70 ug/L	99
79)	p-Isopropyltoluene	19.72	119	444969	43.41 ug/L	100
80)	1,2-Dichlorobenzene	20.12	146	157275	44.07 ug/L	99
81)	n-Butylbenzene	20.22	91	486629	43.35 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.69	75	12173	44.19 ug/L	97
83)	1,2,4-Trichlorobenzene	22.45	180	72007	43.89 ug/L	98
84)	Napthalene	22.80	128	155335	42.79 ug/L	100
85)	Hexachlorobutadiene	22.84	225	41905	46.97 ug/L	99
86)	1,2,3-Trichlorobenzene	23.08	180	56604	44.98 ug/L	98

(#) = qualifier out of range (m) = manual integration
07091217.D 070912.M Wed Jul 11 08:16:40 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091217.D Vial: 11
Acq On : 9 Jul 2012 2:14 pm Operator: MNM
Sample : 50 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:16 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	62055	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	128210	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	222159	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	166944	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	54801	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	224845	103.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 413.96%	
48) Toluene-d8	14.23	98	993327	100.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 403.72%	
62) 4-Bromofluorobenzene	17.89	95	278185	93.17 ug/L	0.00
Spiked Amount 25.000			Recovery	= 372.68%	

Target Compounds					Qvalue
2) Ethanol	6.00	45	49808	1006.65 ug/L #	70
3) tert-Butanol (TBA)	7.58	59	185981	473.40 ug/L	99
5) Dichlorodifluoromethane	4.58	85	391017	93.07 ug/L	99
6) Chloromethane	4.86	50	777517	98.83 ug/L	98
7) Vinyl Chloride	5.18	62	630978	94.05 ug/L	100
8) 1,3-Butadiene	5.34	54	473186	93.34 ug/L	99
9) Bromomethane	5.78	94	266941	97.44 ug/L	96
10) Chloroethane	5.99	64	370952	92.09 ug/L	99
11) Trichlorofluoromethane	6.82	101	288900	96.36 ug/L	99
12) Acetone	6.96	43	200116	106.76 ug/L	90
13) Iodomethane	7.62	142	341702	99.84 ug/L	99
14) 1,1-Dichloroethene	7.56	96	285560	88.57 ug/L	99
15) Methylene Chloride	7.75	84	321765	102.07 ug/L	97
16) Freon 113	7.83	101	282458	94.23 ug/L	99
17) Carbon disulfide	8.09	76	1244611	96.24 ug/L #	92
18) trans-1,2-Dichloroethene	8.66	96	336694	99.25 ug/L	99
19) MTBE	8.80	73	762457	103.70 ug/L	99
20) 1,1-Dichloroethane	8.99	63	763121	99.01 ug/L	99
21) Vinyl Acetate	9.14	43	915533	112.16 ug/L	100
22) n-Hexane	9.51	86	117892	94.53 ug/L	99
23) 2-Butanone (MEK)	9.54	72	47064	116.97 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.55	45	1750187	101.16 ug/L #	52
25) cis-1,2-Dichloroethene	9.73	96	323999	100.71 ug/L	99
26) Bromochloromethane	9.95	128	118072	109.93 ug/L	82
27) Chloroform	10.01	83	490666	98.72 ug/L	100
28) 2,2-Dichloropropane	10.12	77	368830	96.07 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	10.07	59	1171297	104.73 ug/L	96
31) Tetrahydrofuran	10.44	72	36723	110.15 ug/L	97
32) 1,2-Dichloroethane	10.87	62	335895	107.69 ug/L	99
33) 1,1,1-Trichloroethane	11.01	97	324857	97.93 ug/L	99
34) (TAME) tert-Amyl methyl et	11.72	73	860830	102.88 ug/L	99
36) 1,1-Dichloropropene	11.23	75	547355	95.32 ug/L	99
37) Carbon Tetrachloride	11.49	117	249048	95.32 ug/L	99
38) Benzene	11.54	78	1468107	98.17 ug/L	100
39) Dibromomethane	12.27	93	138940	106.52 ug/L	98
40) 1,2-Dichloropropane	12.32	63	400892	100.39 ug/L	100

(#) = qualifier out of range (m) = manual integration
07091218.D 070912.M Wed Jul 11 08:17:20 2012

BMK

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.37	95	290907	97.89 ug/L	95
42)	Bromodichloromethane	12.43	83	341598	101.68 ug/L	97
43)	2-Chlorovinylethylether	12.96	63	173996	113.16 ug/L	98
44)	cis-1,3-Dichloropropene	13.26	75	527661	104.41 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	404908	108.97 ug/L	100
46)	trans-1,3-Dichloropropene	13.84	75	416420	109.47 ug/L	100
47)	1,1,2-Trichloroethane	14.06	97	193006	109.28 ug/L	98
49)	Toluene	14.33	92	763390	97.05 ug/L	99
51)	1,3-Dichloropropane	14.39	76	419566	103.86 ug/L	99
52)	2-Hexanone	14.57	43	324425	115.79 ug/L	99
53)	Dibromochloromethane	14.76	129	182737	106.04 ug/L	100
54)	1,2-Dibromoethane	15.10	107	177230	106.86 ug/L	99
55)	Tetrachloroethene	15.32	164	194882	92.57 ug/L	100
56)	1,1,1,2-Tetrachloroethane	16.13	131	182092	97.42 ug/L	98
57)	Chlorobenzene	16.25	112	647372	96.50 ug/L	100
58)	Ethylbenzene	16.50	91	1304641	91.61 ug/L	100
59)	m,p-Xylenes	16.76	106	466340	92.39 ug/L	100
60)	Styrene	17.22	104	681797	96.78 ug/L	100
61)	o-Xylene	17.33	106	415731	92.45 ug/L	99
64)	Bromoform	16.94	173	97500	116.15 ug/L	99
65)	1,1,2,2-Tetrachloroethane	17.31	83	238636	104.74 ug/L	96
66)	1,2,3-Trichloropropane	17.51	110	49166	108.54 ug/L	93
67)	trans-1,4-Dichloro-2-buten	17.52	53	90697	111.09 ug/L	99
68)	Isopropylbenzene	17.82	105	979326	95.72 ug/L	99
69)	Bromobenzene	18.19	156	198759	107.42 ug/L	99
70)	n-Propylbenzene	18.44	91	1396563	96.53 ug/L	99
71)	2-Chlorotoluene	18.59	91	738042	96.14 ug/L	99
72)	4-Chlorotoluene	18.69	91	722963	98.20 ug/L	100
73)	1,3,5-Trimethylbenzene	18.83	105	729240	93.10 ug/L	100
74)	tert-Butylbenzene	19.21	119	601190	89.66 ug/L	100
75)	1,2,4-Trimethylbenzene	19.36	105	683859	91.17 ug/L	100
76)	sec-Butylbenzene	19.49	105	1024024	88.59 ug/L	99
77)	1,3-Dichlorobenzene	19.60	146	349863	97.54 ug/L	100
78)	1,4-Dichlorobenzene	19.69	146	337351	97.26 ug/L	99
79)	p-Isopropyltoluene	19.72	119	722671	87.64 ug/L	100
80)	1,2-Dichlorobenzene	20.13	146	267570	93.19 ug/L	99
81)	n-Butylbenzene	20.21	91	780057	86.38 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.70	75	20773	100.94 ug/L	95
83)	1,2,4-Trichlorobenzene	22.45	180	111090	84.17 ug/L	99
84)	Napthalene	22.81	128	251953	86.26 ug/L	100
85)	Hexachlorobutadiene	22.85	225	60351	88.10 ug/L	99
86)	1,2,3-Trichlorobenzene	23.08	180	86018	84.96 ug/L	99

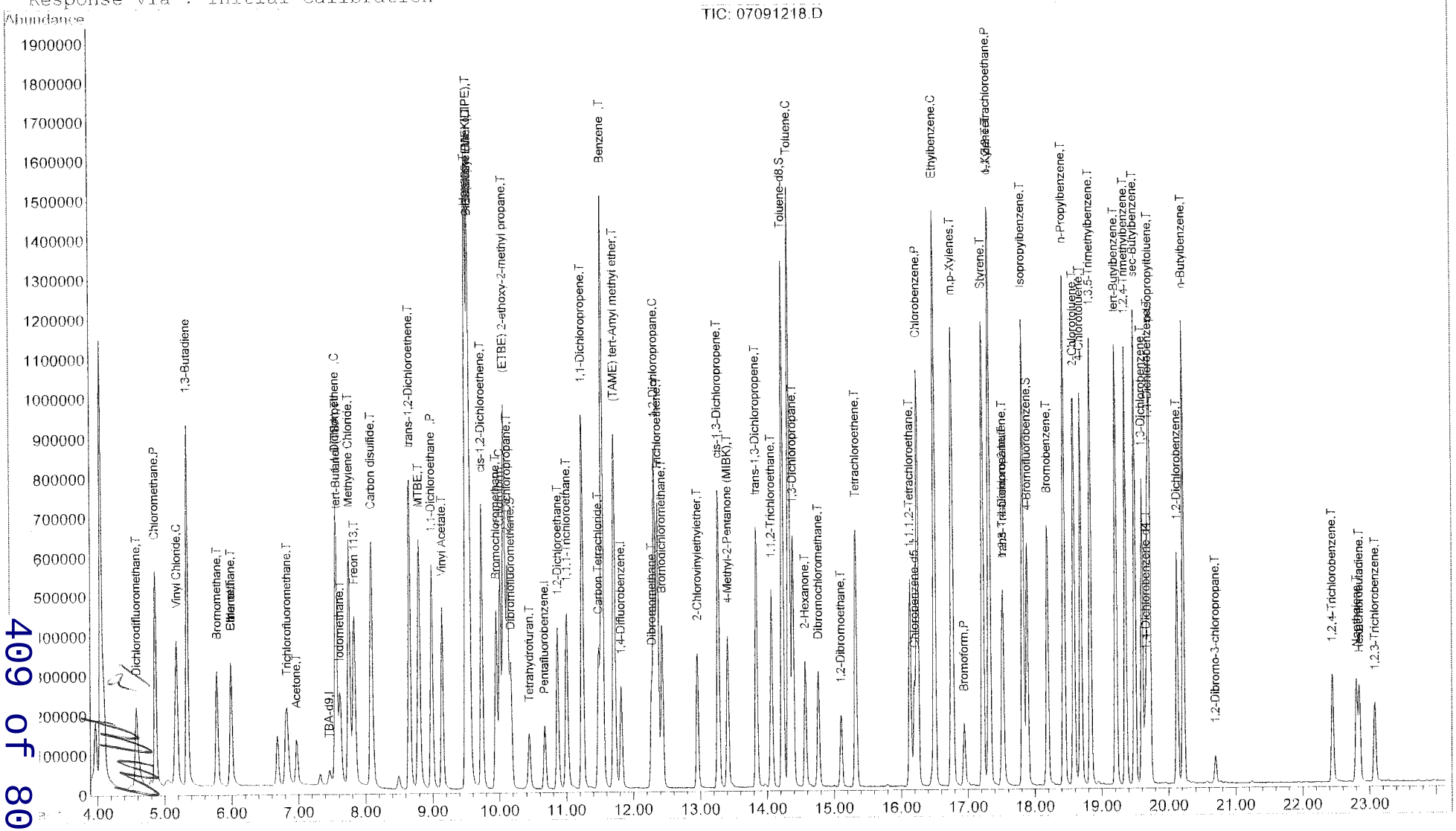
MM

(#) = qualifier out of range (m) = manual integration
07091218.D 070912.M Wed Jul 11 08:17:20 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091218.D Vial: 12
Acq On : 9 Jul 2012 3:09 pm Operator: MNM
Sample : 100 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	49414	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	115311	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.82	114	199016	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	141515	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.66	152	42219	25.00 ug/L	0.01
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	407348	208.47 ug/L	0.01
Spiked Amount 25.000			Recovery	= 833.88%	
48) Toluene-d8	14.24	98	1830625	207.64 ug/L	0.01
Spiked Amount 25.000			Recovery	= 830.56%	
62) 4-Bromofluorobenzene	17.88	95	472190	186.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 746.24%	
Target Compounds					Qvalue
2) Ethanol	6.01	45	79404	2015.34 ug/L #	72
3) tert-Butanol (TBA)	7.57	59	301277	963.06 ug/L	98
5) Dichlorodifluoromethane	4.57	85	767252	203.05 ug/L	100
6) Chloromethane	4.86	50	1463244	206.79 ug/L	98
7) Vinyl Chloride	5.18	62	1173155	194.43 ug/L	100
8) 1,3-Butadiene	5.33	54	894281	196.13 ug/L	99
9) Bromomethane	5.78	94	492722	199.97 ug/L	95
10) Chloroethane	5.98	64	693039	191.30 ug/L	99
11) Trichlorofluoromethane	6.81	101	560500	207.86 ug/L	98
12) Acetone	6.97	43	301421	178.80 ug/L	91
13) Iodomethane	7.62	142	631927	205.30 ug/L	100
14) 1,1-Dichloroethene	7.56	96	535860	184.79 ug/L	99
15) Methylene Chloride	7.75	84	574444	202.95 ug/L	97
16) Freon 113	7.83	101	539759	200.21 ug/L	99
17) Carbon disulfide	8.08	76	2387636	205.29 ug/L #	90
18) trans-1,2-Dichloroethene	8.66	96	622676	204.45 ug/L	98
19) MTBE	8.79	73	1281928	193.86 ug/L	100
20) 1,1-Dichloroethane	8.99	63	1411987	203.68 ug/L	99
21) Vinyl Acetate	9.15	43	1508275	205.45 ug/L	100
22) n-Hexane	9.50	86	226304	201.75 ug/L	100
23) 2-Butanone (MEK)	9.54	72	73221	202.33 ug/L #	78
24) Diisopropyl Ether (DIPE)	9.55	45	3133646	201.38 ug/L	96
25) cis-1,2-Dichloroethene	9.74	96	589602	204.01 ug/L	99
26) Bromochloromethane	9.96	128	204275	211.47 ug/L	96
27) Chloroform	10.02	83	886063	198.21 ug/L	99
28) 2,2-Dichloropropane	10.12	77	713862	207.08 ug/L	96
29) (ETBE) 2-ethoxy-2-methyl p	10.07	59	2043857	203.20 ug/L	96
31) Tetrahydrofuran	10.44	72	56268	187.66 ug/L	96
32) 1,2-Dichloroethane	10.86	62	571634	203.76 ug/L	99
33) 1,1,1-Trichloroethane	11.00	97	610409	205.17 ug/L	99
34) (TAME) tert-Amyl methyl et	11.71	73	1462532	194.34 ug/L	99
36) 1,1-Dichloropropene	11.24	75	1025853	199.43 ug/L	99
37) Carbon Tetrachloride	11.49	117	469039	200.39 ug/L	99
38) Benzene	11.53	78	2694547	201.13 ug/L	99
39) Dibromomethane	12.27	93	234306	200.52 ug/L	97
40) 1,2-Dichloropropane	12.31	63	712452	199.15 ug/L	99

(#) = qualifier out of range (m) = manual integration
07091219.D 070912.M Wed Jul 11 08:18:11 2012

MCM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.36	95	538205	202.16 ug/L	96
42) Bromodichloromethane	12.43	83	606932	201.67 ug/L	99
43) 2-Chlorovinylethylether	12.95	63	281982	204.71 ug/L	98
44) cis-1,3-Dichloropropene	13.27	75	924777	204.27 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	13.41	43	639212	192.04 ug/L	99
46) trans-1,3-Dichloropropene	13.84	75	705141	206.93 ug/L	100
47) 1,1,2-Trichloroethane	14.07	97	321066	202.93 ug/L	98
49) Toluene	14.32	92	1376084	195.29 ug/L	98
51) 1,3-Dichloropropane	14.38	76	704704	205.79 ug/L	98
52) 2-Hexanone	14.57	43	499409	210.27 ug/L	99
53) Dibromochloromethane	14.77	129	311685	213.37 ug/L	99
54) 1,2-Dibromoethane	15.10	107	294677	209.60 ug/L	99
55) Tetrachloroethene	15.32	164	361111	202.34 ug/L	99
56) 1,1,1,2-Tetrachloroethane	16.14	131	318800	201.20 ug/L	99
57) Chlorobenzene	16.25	112	1143424	201.08 ug/L	99
58) Ethylbenzene	16.50	91	2360587	195.55 ug/L	99
59) m,p-Xylenes	16.77	106	830817	194.18 ug/L	100
60) Styrene	17.22	104	1190656	199.38 ug/L	100
61) o-Xylene	17.32	106	732663	192.20 ug/L	99
64) Bromoform	16.95	173	159496	246.63 ug/L>	99
65) 1,1,2,2-Tetrachloroethane	17.31	83	365237	208.08 ug/L	97
66) 1,2,3-Trichloropropane	17.51	110	76173	218.28 ug/L	92
67) trans-1,4-Dichloro-2-buten	17.53	53	136170	216.50 ug/L	98
68) Isopropylbenzene	17.82	105	1760555	223.37 ug/L	99
69) Bromobenzene	18.19	156	333700	234.09 ug/L	99
70) n-Propylbenzene	18.44	91	2449847	219.79 ug/L	99
71) 2-Chlorotoluene	18.58	91	1276486	215.83 ug/L	99
72) 4-Chlorotoluene	18.69	91	1217663	214.69 ug/L	99
73) 1,3,5-Trimethylbenzene	18.83	105	1241265	205.69 ug/L	100
74) tert-Butylbenzene	19.21	119	1037596	200.85 ug/L	100
75) 1,2,4-Trimethylbenzene	19.35	105	1153831	199.67 ug/L	100
76) sec-Butylbenzene	19.49	105	1744232	195.86 ug/L	99
77) 1,3-Dichlorobenzene	19.61	146	566043	204.85 ug/L	100
78) 1,4-Dichlorobenzene	19.69	146	548118	205.13 ug/L	99
79) p-Isopropyltoluene	19.72	119	1210682	190.57 ug/L	100
80) 1,2-Dichlorobenzene	20.13	146	418923	189.38 ug/L	100
81) n-Butylbenzene	20.22	91	1304381	187.48 ug/L	100
82) 1,2-Dibromo-3-chloropropan	20.69	75	28550	200.62 ug/L	92
83) 1,2,4-Trichlorobenzene	22.45	180	170538	167.72 ug/L	100
84) Napthalene	22.80	128	367174	163.17 ug/L	100
85) Hexachlorobutadiene	22.85	225	95089	207.92 ug/L	99
86) 1,2,3-Trichlorobenzene	23.08	180	128924	165.28 ug/L	99

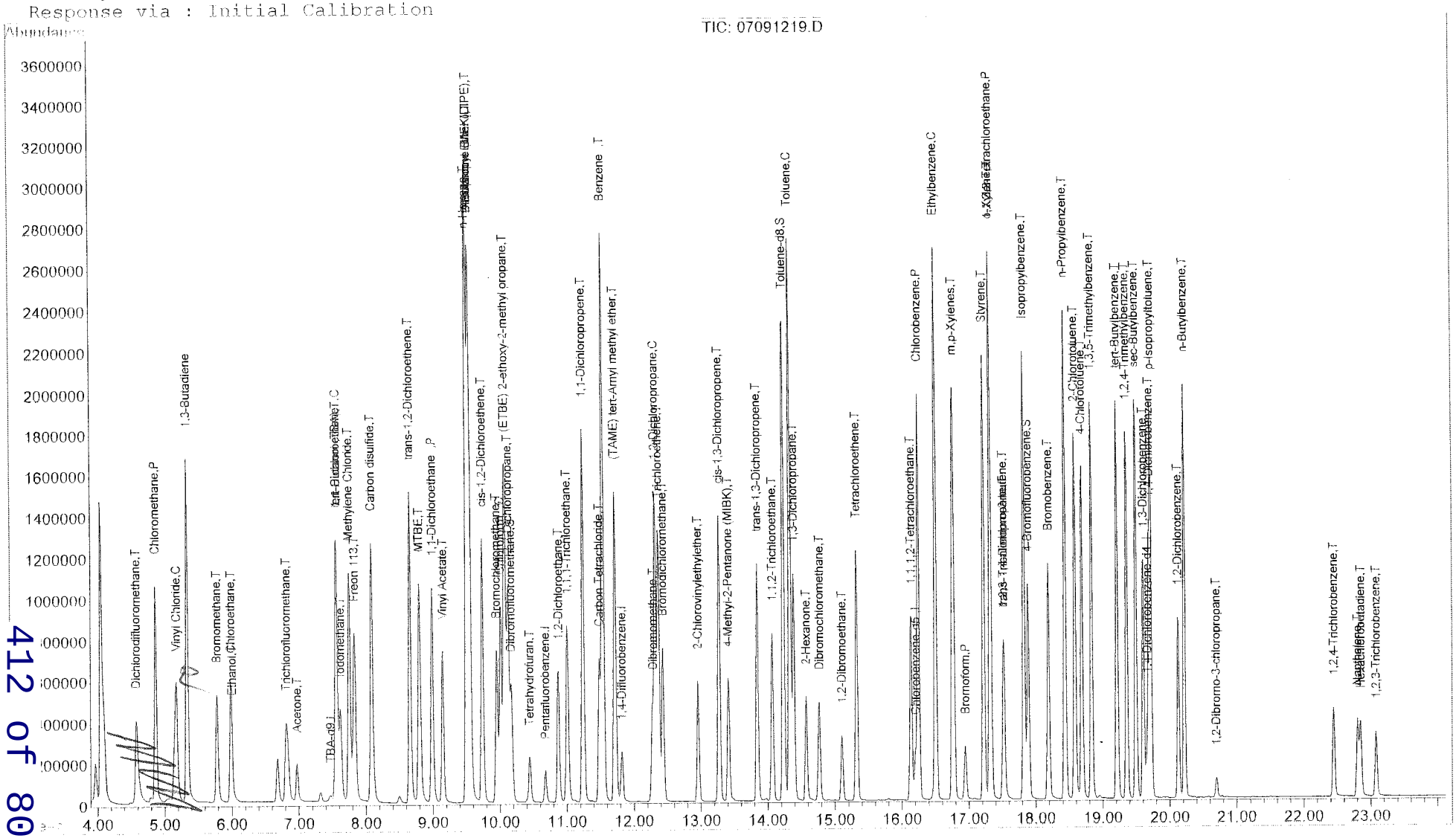
MNM

(#) = qualifier out of range (m) = manual integration
07091219.D 070912.M Wed Jul 11 08:18:12 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091219.D Vial: 13
Acq On : 9 Jul 2012 3:43 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:17 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Compound List Report GCMS4

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
Total Cpnds : 86

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	7.46	1.000	A	0	A	B
2	T	Ethanol	45	5.99	0.803	A	1	A	B
3	T	tert-Butanol (TBA)	59	7.56	1.013	A	1	A	B
4	I	Pentafluorobenzene	168	10.68	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.58	0.429	A	1	A	B
6	P	Chloromethane	50	4.86	0.455	A	1	A	B
7	C	Vinyl Chloride	62	5.17	0.485	A	1	A	L
8		1,3-Butadiene	54	5.34	0.500	A	2	A	B
9	T	Bromomethane	94	5.78	0.541	A	1	A	L
10	T	Chloroethane	64	5.98	0.560	A	2	A	B
11	T	Trichlorofluoromethane	101	6.82	0.639	A	1	A	B
12	T	Acetone	43	6.97	0.653	A	1	A	L
13	T	Iodomethane	142	7.62	0.714	A	2	A	B
14	C	1,1-Dichloroethene	96	7.55	0.707	A	2	A	L
15	T	Methylene Chloride	84	7.75	0.726	L	2	A	B
16	T	Freon 113	101	7.83	0.733	A	2	A	B
17	T	Carbon disulfide	76	8.08	0.757	A	2	A	B
18	T	trans-1,2-Dichloroethene	96	8.65	0.811	L	2	A	B
19	T	MTBE	73	8.79	0.824	A	1	A	B
20	P	1,1-Dichloroethane	63	8.98	0.841	A	2	A	B
21	T	Vinyl Acetate	43	9.14	0.856	A	1	A	B
22	T	n-Hexane	86	9.50	0.890	A	1	A	B
23	T	2-Butanone (MEK)	72	9.54	0.894	A	2	A	B
24	T	Diisopropyl Ether (DIPE)	45	9.54	0.894	A	3	A	B
25	T	cis-1,2-Dichloroethene	96	9.73	0.911	L	2	A	B
26	T	Bromochloromethane	128	9.95	0.932	A	2	A	B
27	C	Chloroform	83	10.01	0.937	A	2	A	B
28	T	2,2-Dichloropropane	77	10.11	0.947	L	2	A	B
29	T	(ETBE) 2-ethoxy-2-methyl propa	59	10.06	0.943	A	2	A	B
30	S	Dibromofluoromethane	113	10.16	0.952	A	0	A	B
31	T	Tetrahydrofuran	72	10.44	0.978	A	2	A	B
32	T	1,2-Dichloroethane	62	10.86	1.018	A	2	A	B
33	T	1,1,1-Trichloroethane	97	11.00	1.030	L	2	A	B
34	T	(TAME) tert-Amyl methyl ether	73	11.71	1.097	A	3	A	B
35	I	1,4-Difluorobenzene	114	11.82	1.000	A	0	A	B
36	T	1,1-Dichloropropene	75	11.24	0.951	A	2	A	B
37	T	Carbon Tetrachloride	117	11.48	0.972	A	2	A	B
38	T	Benzene	78	11.53	0.976	A	1	A	B
39	T	Dibromomethane	93	12.26	1.037	A	2	A	B
40	C	1,2-Dichloropropane	63	12.31	1.042	A	2	A	B
41	T	Trichloroethene	95	12.36	1.046	A	3	A	B
42	T	Bromodichloromethane	83	12.42	1.051	A	2	A	B
43	T	2-Chlorovinylethylether	63	12.95	1.096	A	2	A	B
44	T	cis-1,3-Dichloropropene	75	13.27	1.123	A	2	A	B
45	T	4-Methyl-2-Pentanone (MIBK)	43	13.41	1.134	A	1	A	L
46	T	trans-1,3-Dichloropropene	75	13.83	1.170	A	2	A	B
47	T	1,1,2-Trichloroethane	97	14.06	1.189	A	2	A	B
48	S	Toluene-d8	98	14.22	1.203	A	0	A	B
49	C	Toluene	92	14.32	1.212	A	2	A	B
50	I	Chlorobenzene-d5	117	16.20	1.000	A	0	A	B
51	T	1,3-Dichloropropane	76	14.38	0.888	A	1	A	B
52	T	2-Hexanone	43	14.57	0.900	A	2	A	B
53	T	Dibromochloromethane	129	14.76	0.911	A	1	A	B
54	T	1,2-Dibromoethane	107	15.10	0.932	A	1	A	B
55	T	Tetrachloroethene	164	15.32	0.946	A	2	A	B
56	T	1,1,1,2-Tetrachloroethane	131	16.13	0.996	A	2	A	B
57	P	Chlorobenzene	112	16.25	1.003	A	2	A	B
58	C	Ethylbenzene	91	16.49	1.018	A	1	A	B
59	T	m,p-Xylenes	106	16.76	1.035	A	2	A	B

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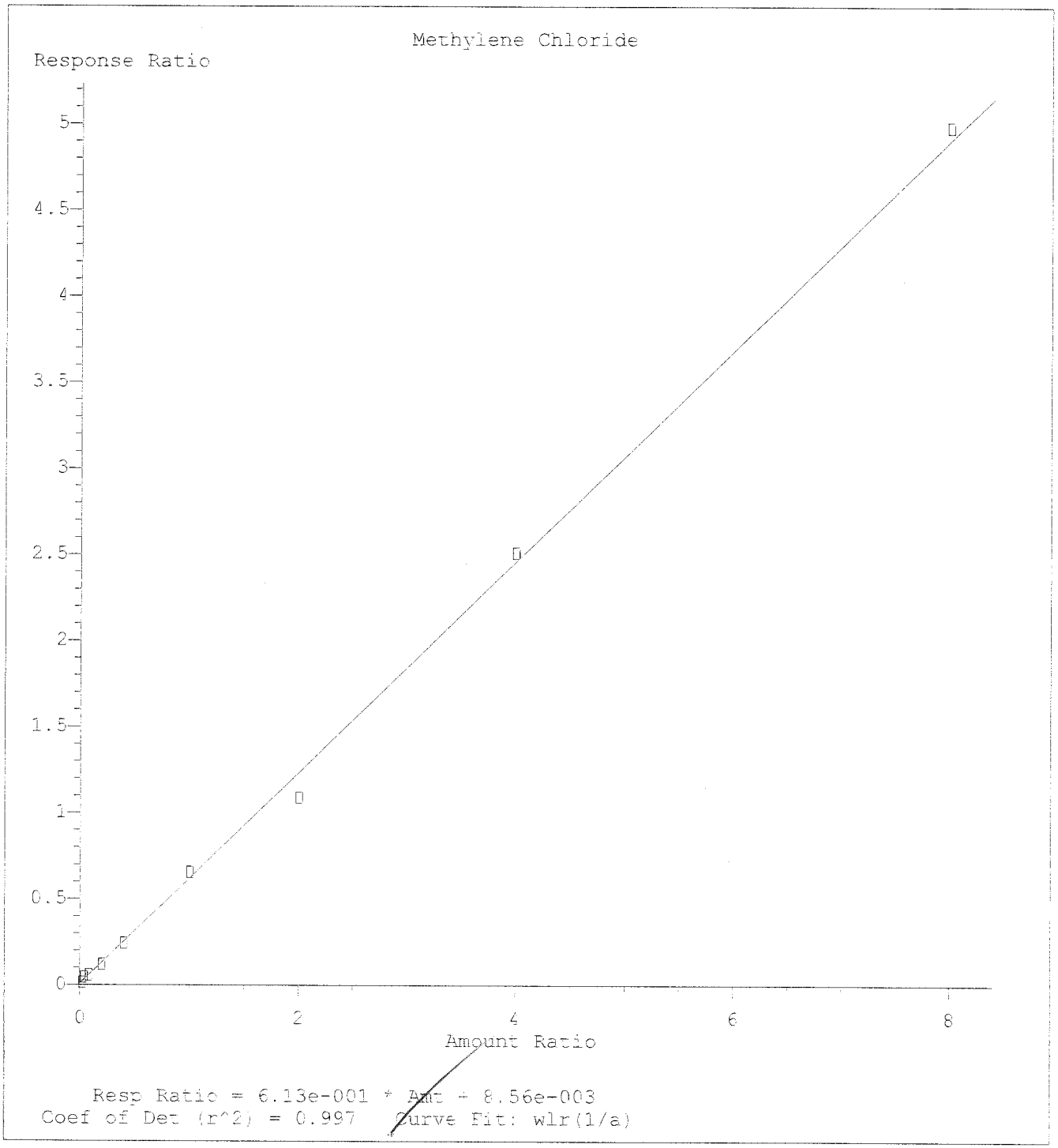
60	T	Styrene	104	17.22	1.063	A	3	A	B
61	T	o-Xylene	106	17.32	1.069	A	2	A	B
62	S	4-Bromofluorobenzene	95	17.88	1.104	A	2	A	B
63	I	1,4-Dichlorobenzene-d4	152	19.65	1.000	A	2	A	B
64	P	Bromoform	173	16.94	0.862	A	1	A	B
65	P	1,1,2,2-Tetrachloroethane	83	17.30	0.881	A	2	A	B
66	T	1,2,3-Trichloropropane	110	17.51	0.891	A	2	A	B
67	T	trans-1,4-Dichloro-2-butene	53	17.52	0.892	A	2	A	B
68	T	Isopropylbenzene	105	17.81	0.907	A	1	A	B
69	T	Bromobenzene	156	18.19	0.926	A	2	A	B
70	T	n-Propylbenzene	91	18.42	0.938	A	1	A	B
71	T	2-Chlorotoluene	91	18.58	0.946	A	1	A	R
72	T	4-Chlorotoluene	91	18.68	0.951	A	1	A	R
73	T	1,3,5-Trimethylbenzene	105	18.83	0.958	A	1	A	B
74	T	tert-Butylbenzene	119	19.20	0.977	A	2	A	B
75	T	1,2,4-Trimethylbenzene	105	19.35	0.985	A	1	A	B
76	T	sec-Butylbenzene	105	19.49	0.992	A	1	A	B
77	T	1,3-Dichlorobenzene	146	19.60	0.997	A	2	A	R
78	T	1,4-Dichlorobenzene	146	19.69	1.002	A	2	A	R
79	T	p-Isopropyltoluene	119	19.72	1.003	A	2	A	B
80	T	1,2-Dichlorobenzene	146	20.12	1.024	A	2	A	B
81	T	n-Butylbenzene	91	20.21	1.029	A	2	A	B
82	T	1,2-Dibromo-3-chloropropane	75	20.69	1.053	Q	2	A	B
83	T	1,2,4-Trichlorobenzene	180	22.45	1.142	A	2	A	B
84	T	Napthalene	128	22.80	1.161	A	1	A	B
85	T	Hexachlorobutadiene	225	22.84	1.163	Q	2	A	B
86	T	1,2,3-Trichlorobenzene	180	23.08	1.175	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

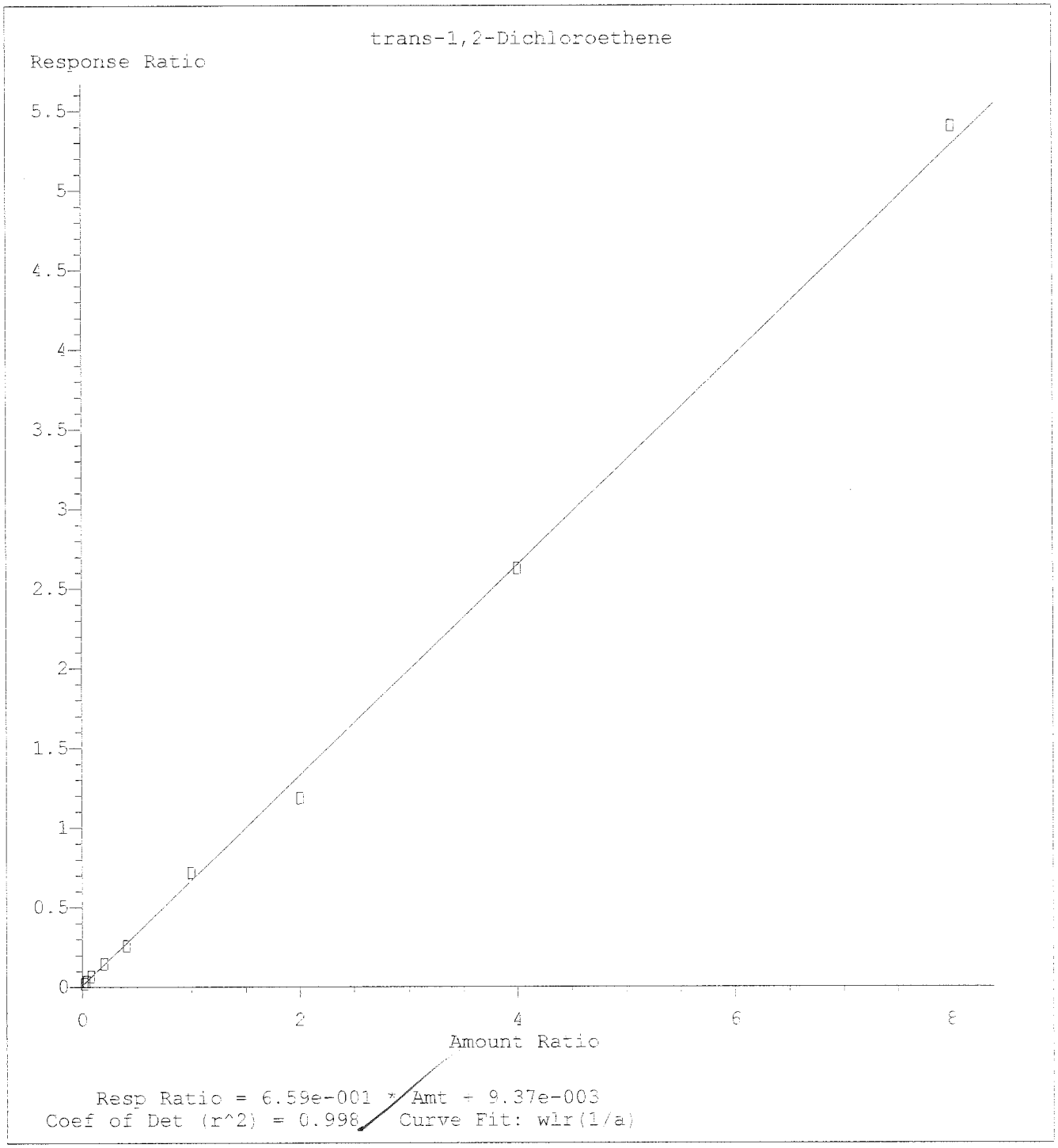
070912.M Wed Jul 11 10:45:42 2012

mm



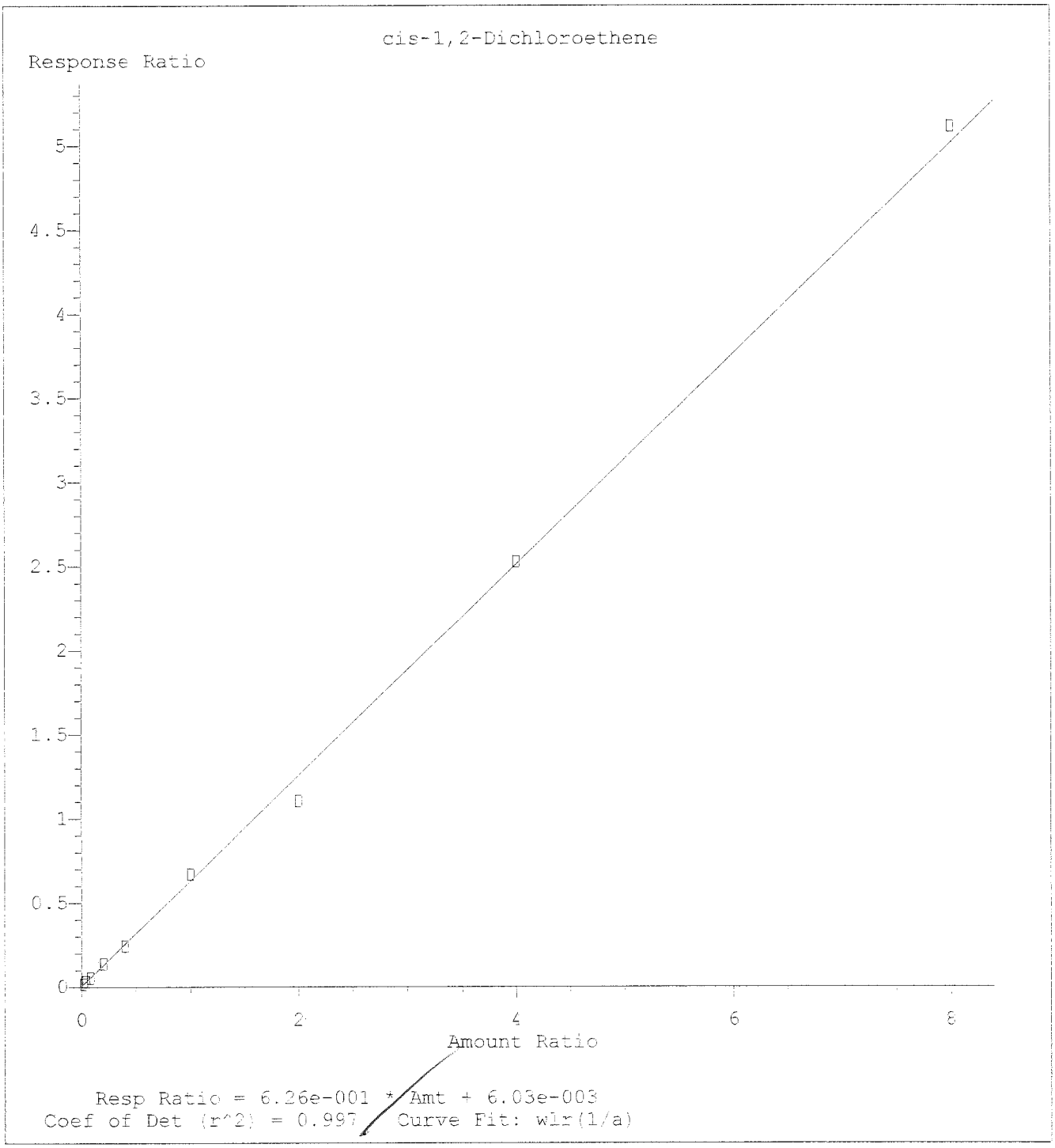
Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

MM

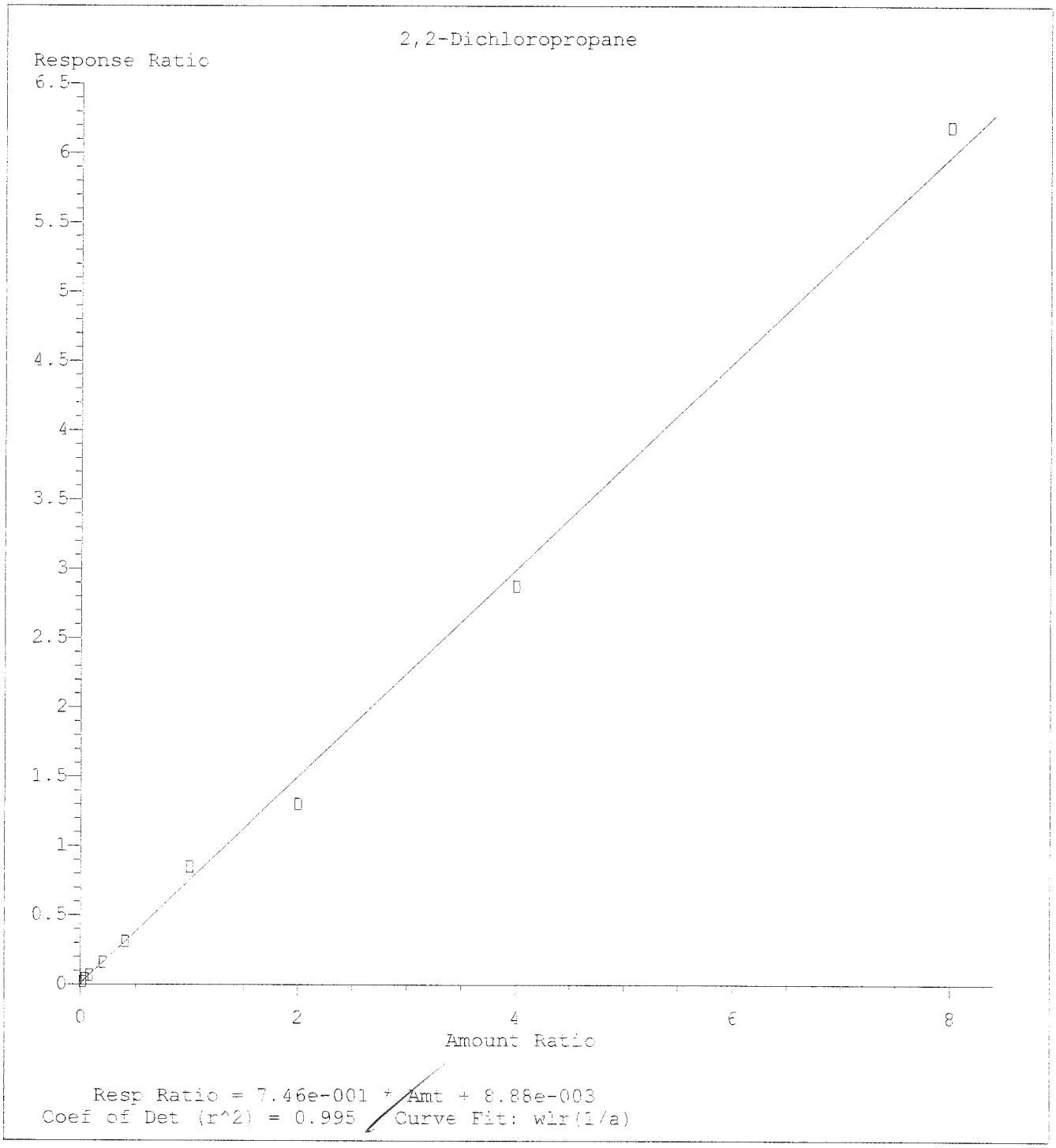


Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

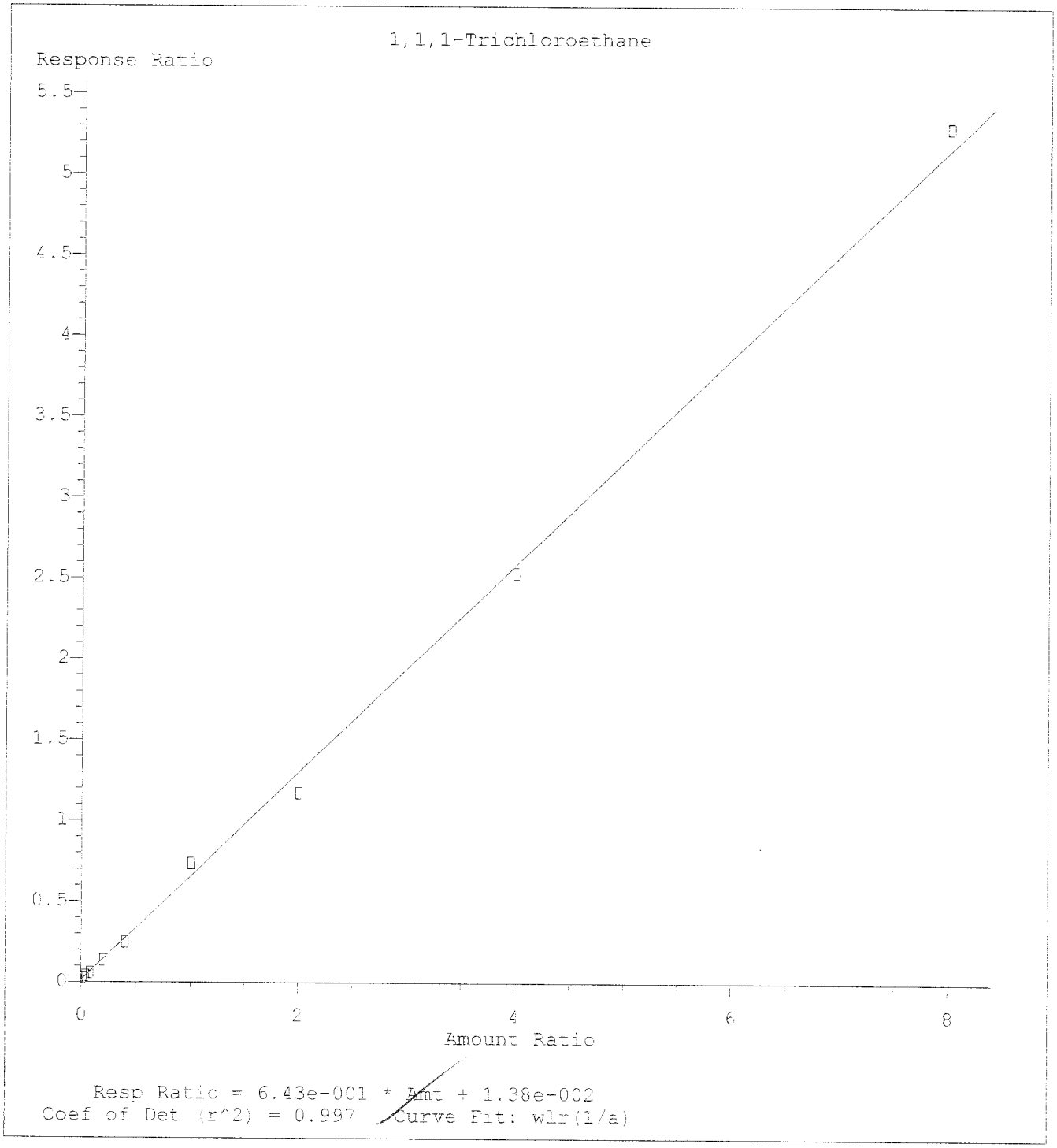
MM



Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

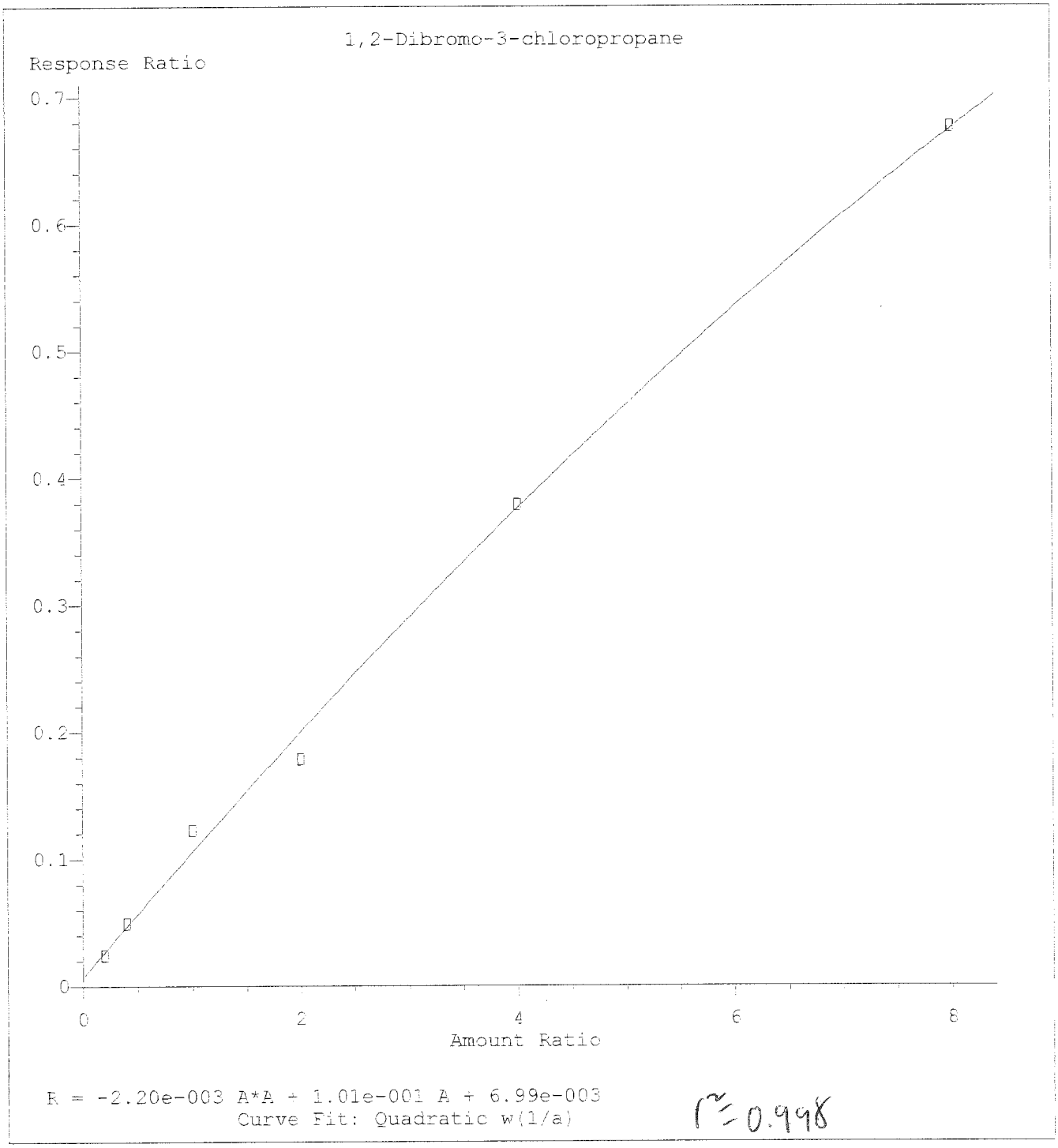


Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

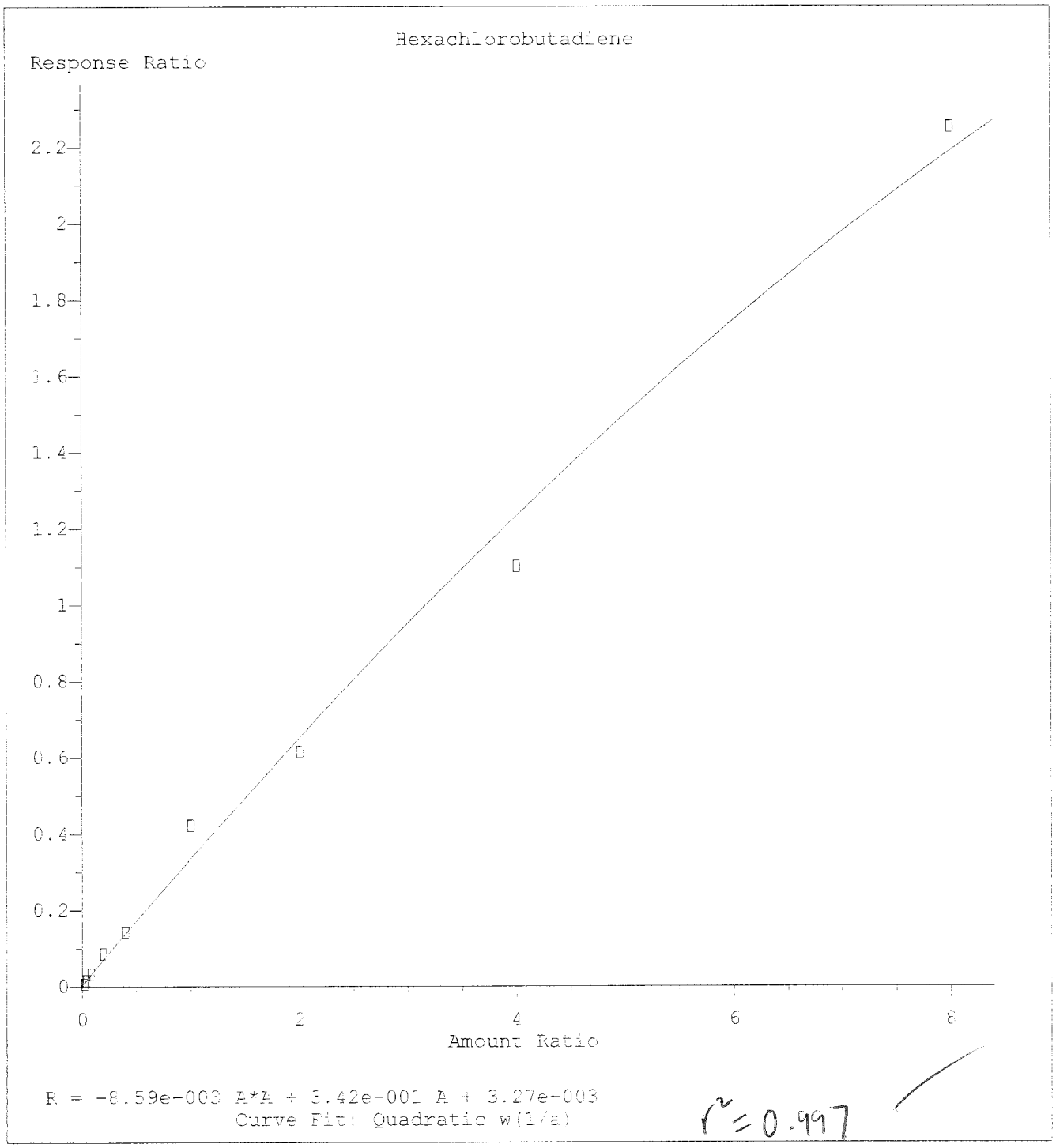


Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

MM



Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012



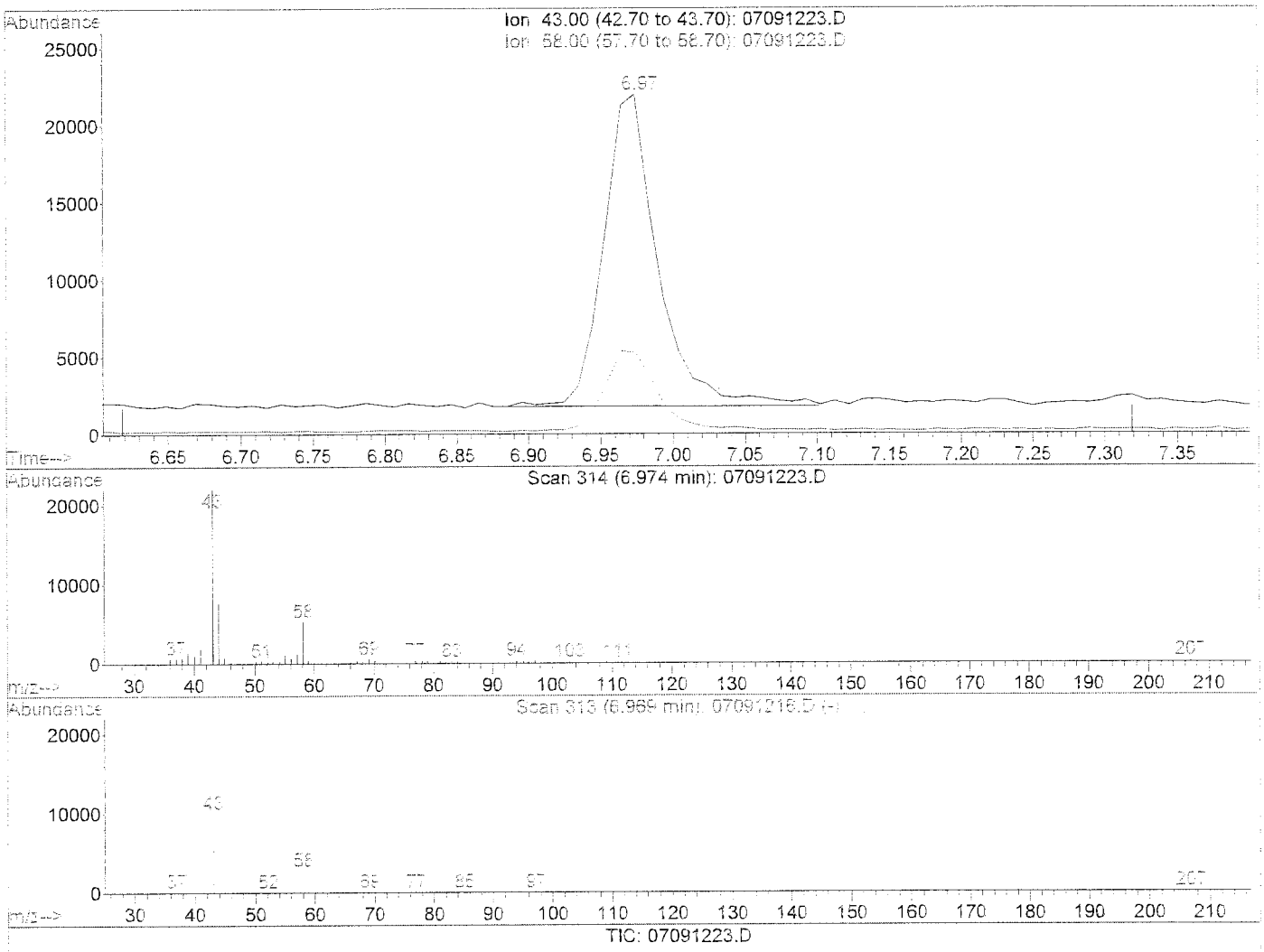
Method Name: C:\HPCHEM\1\GCMS4\METHODS\070912.M
Calibration Table Last Updated: Mon Jul 09 16:40:12 2012

MM

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091223.D Vial: 17
Acq On : 9 Jul 2012 5:07 pm Operator: MNM
Sample : 25 PPB ICV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.97min 25.01ug/L

response 52678

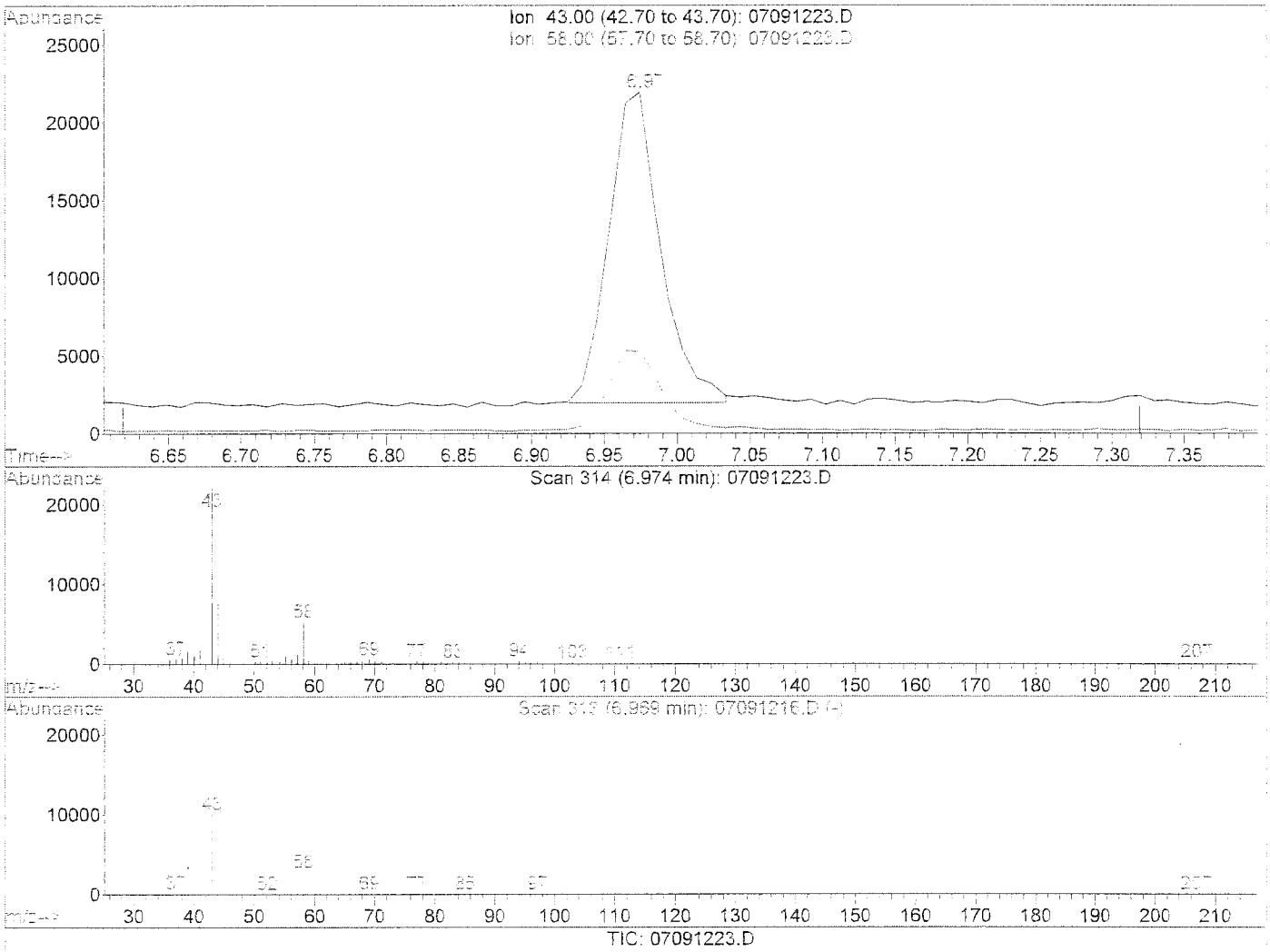
Ion	Exp%	Act%
43.00	100	100
58.00	32.10	25.96
0.00	0.00	0.00
0.00	0.00	0.00

BL MNM 7/11/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091223.D Vial: 17
Acq On : 9 Jul 2012 5:07 pm Operator: MNM
Sample : 25 PPB ICV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.97min 23.39ug/L m

response 49280

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	27.75
0.00	0.00	0.00
0.00	0.00	0.00

MNM 7/11/12

8260 CCV/ICV CUSTOM REPORT

Data File Name	07091223.D
Data File Path	C:\HPCHEM\1\GCMS4\DATA\070912\
Operator	MNM
Date Acquired	7/9/2012 5:07
Acq. Method File	8260
Sample Name	25 PPB ICV
Instrument Name	GCMS4

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	73096	55705	27852.5	111410	TRUE
4)	Pentafluorobenzene	144087	132566	66283	265132	TRUE
35)	1,4-Difluorobenzene	253230	228841	114420.5	457682	TRUE
50)	Chlorobenzene-d5	185905	167611	83805.5	335222	TRUE
63)	1,4-Dichlorobenzene-d4	69519	61145	30572.5	122290	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	231.58	250	93%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	119.06	125	95%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	18.57	25	74%	60%	140%	TRUE	
6)	Chloromethane	22.82	25	91%	48%	144%	TRUE	
7)	Vinyl Chloride	23.62	25	94%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	20.66	25	83%	50%	141%	TRUE	
9)	Bromomethane	24.95	25	100%	40%	144%	TRUE	
10)	Chloroethane	22.66	25	91%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.66	25	103%	68%	136%	TRUE	
12)	Acetone	23.39	25	94%	12%	150%	TRUE	
13)	Iodomethane	27.43	25	110%	40%	160%	TRUE	
14)	1,1-Dichloroethene	21.82	25	87%	80%	120%	TRUE	CCC
15)	Methylene Chloride	24.31	25	97%	68%	128%	TRUE	
16)	Freon 113	24.16	25	97%	76%	124%	TRUE	
17)	Carbon disulfide	23.93	25	96%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	24.82	25	99%	76%	120%	TRUE	
19)	MTBE	24.30	25	97%	64%	140%	TRUE	
20)	1,1-Dichloroethane	24.01	25	96%	72%	124%	TRUE	
21)	Vinyl Acetate	30.39	25	122%	48%	150%	TRUE	
22)	n-Hexane	22.93	25	92%	56%	150%	TRUE	
23)	2-Butanone (MEK)	27.77	25	111%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	24.56	25	98%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	25.12	25	100%	72%	128%	TRUE	
26)	Bromochloromethane	26.36	25	105%	72%	132%	TRUE	
27)	Chloroform	24.44	25	98%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	24.95	25	100%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl propa	24.46	25	98%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**26.59**	**25**	106%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	25.04	25	100%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.81	25	103%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	24.36	25	97%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	25.00	25	100%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.12	25	92%	76%	128%	TRUE	

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37) Carbon Tetrachloride	24.03	25	96%	72%	136%	TRUE	
38) Benzene	24.99	25	100%	76%	120%	TRUE	
39) Dibromomethane	24.99	25	100%	72%	132%	TRUE	
40) 1,2-Dichloropropane	24.73	25	99%	80%	120%	TRUE	CCC
41) Trichloroethene	24.27	25	97%	80%	120%	TRUE	
42) Bromodichloromethane	24.85	25	99%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	28.39	25	114%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	25.10	25	100%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	26.26	25	105%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	25.33	25	101%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.81	25	103%	72%	132%	TRUE	
48) **Toluene-d8**	**26.65**	**25**	107%	80%	120%	**TRUE**	
49) Toluene	25.32	25	101%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	25.97	25	104%	80%	124%	TRUE	
52) 2-Hexanone	29.13	25	117%	52%	150%	TRUE	
53) Dibromochloromethane	25.69	25	103%	80%	128%	TRUE	
54) 1,2-Dibromoethane	25.81	25	103%	80%	128%	TRUE	
55) Tetrachloroethene	23.88	25	96%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	24.90	25	100%	76%	124%	TRUE	
57) Chlorobenzene	25.18	25	101%	80%	120%	TRUE	
58) Ethylbenzene	25.39	25	102%	80%	120%	TRUE	CCC
59) m,p-Xylenes	24.57	25	98%	80%	120%	TRUE	
60) Styrene	25.31	25	101%	84%	124%	TRUE	
61) o-Xylene	25.54	25	102%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**26.18**	**25**	105%	80%	120%	**TRUE**	
64) Bromoform	26.23	25	105%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.38	25	106%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	25.64	25	103%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	23.67	25	95%	48%	138%	TRUE	
68) Isopropylbenzene	26.17	25	105%	76%	132%	TRUE	
69) Bromobenzene	25.59	25	102%	76%	128%	TRUE	
70) n-Propylbenzene	25.10	25	100%	76%	132%	TRUE	
71) 2-Chlorotoluene	24.33	25	97%	80%	124%	TRUE	
72) 4-Chlorotoluene	24.71	25	99%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	24.55	25	98%	80%	128%	TRUE	
74) tert-Butylbenzene	25.16	25	101%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	24.28	25	97%	80%	128%	TRUE	
76) sec-Butylbenzene	24.79	25	99%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	25.61	25	102%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	25.62	25	102%	76%	120%	TRUE	
79) p-Isopropyltoluene	24.43	25	98%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	26.62	25	106%	80%	124%	TRUE	
81) n-Butylbenzene	25.22	25	101%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	30.25	25	121%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	29.15	25	117%	76%	128%	TRUE	
84) Napthalene	30.74	25	123%	68%	136%	TRUE	
85) Hexachlorobutadiene	29.14	25	117%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	30.56	25	122%	72%	128%	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091223.D Vial: 17
Acq On : 9 Jul 2012 5:07 pm Operator: MNM
Sample : 25 PPB ICV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:20 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.46	65	73096	200.00 ug/L	0.00
4) Pentafluorobenzene	10.68	168	144087	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.81	114	253230	25.00 ug/L	0.00
50) Chlorobenzene-d5	16.20	117	185905	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.65	152	69519	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.17	113	64919	26.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 106.36%	
48) Toluene-d8	14.23	98	298918	26.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 106.60%	
62) 4-Bromofluorobenzene	17.89	95	87040	26.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.72%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	13497	231.58 ug/L	93
3) tert-Butanol (TBA)	7.57	59	55097	119.06 ug/L	97
5) Dichlorodifluoromethane	4.58	85	87686	18.57 ug/L	99
6) Chloromethane	4.86	50	201775	22.82 ug/L	98
7) Vinyl Chloride	5.18	62	178109	23.62 ug/L	100
8) 1,3-Butadiene	5.35	54	117712	20.66 ug/L	97
9) Bromomethane	5.78	94	76824	24.95 ug/L	95
10) Chloroethane	5.99	64	102594	22.66 ug/L	97
11) Trichlorofluoromethane	6.83	101	86460	25.66 ug/L	99
12) Acetone	6.97	43	49280m	23.39 ug/L	
13) Iodomethane	7.62	142	105516	27.43 ug/L	99
14) 1,1-Dichloroethene	7.56	96	79066	21.82 ug/L	98
15) Methylene Chloride	7.75	84	87075	24.31 ug/L	98
16) Freon 113	7.83	101	81403	24.16 ug/L	98
17) Carbon disulfide	8.09	76	347735	23.93 ug/L	97
18) trans-1,2-Dichloroethene	8.66	96	95648	24.82 ug/L	97
19) MTBE	8.80	73	200781	24.30 ug/L	99
20) 1,1-Dichloroethane	8.99	63	208016	24.01 ug/L	100
21) Vinyl Acetate	9.14	43	278805	30.39 ug/L	100
22) n-Hexane	9.51	86	32140	22.93 ug/L	99
23) 2-Butanone (MEK)	9.54	72	12559	27.77 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.55	45	477575	24.56 ug/L #	53
25) cis-1,2-Dichloroethene	9.73	96	91485	25.12 ug/L	97
26) Bromochloromethane	9.95	128	31822	26.36 ug/L	97
27) Chloroform	10.01	83	136547	24.44 ug/L	99
28) 2,2-Dichloropropane	10.12	77	108604	24.95 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	10.07	59	307462	24.46 ug/L	96
31) Tetrahydrofuran	10.44	72	9383	25.04 ug/L	97
32) 1,2-Dichloroethane	10.87	62	90465	25.81 ug/L	99
33) 1,1,1-Trichloroethane	11.01	97	92296	24.36 ug/L	99
34) (TAME) tert-Amyl methyl et	11.72	73	235046	25.00 ug/L	99
36) 1,1-Dichloropropene	11.23	75	151292	23.12 ug/L	98
37) Carbon Tetrachloride	11.49	117	71567	24.03 ug/L	99
38) Benzene	11.54	78	425981	24.99 ug/L	99
39) Dibromomethane	12.27	93	37152	24.99 ug/L	98
40) 1,2-Dichloropropane	12.32	63	112553	24.73 ug/L	99

(#) = qualifier out of range (m) = manual integration
07091223.D 070912.M Wed Jul 11 08:20:26 2012

MNM 7/11/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091223.D Vial: 17
Acq On : 9 Jul 2012 5:07 pm Operator: MNM
Sample : 25 PPB ICV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:20 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.37	95	82207	24.27 ug/L	95
42)	Bromodichloromethane	12.43	83	95155	24.85 ug/L	96
43)	2-Chlorovinylethylether	12.96	63	49755	28.39 ug/L	99
44)	cis-1,3-Dichloropropene	13.26	75	144615	25.10 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	13.41	43	111233	26.26 ug/L	100
46)	trans-1,3-Dichloropropene	13.84	75	109822	25.33 ug/L	99
47)	1,1,2-Trichloroethane	14.06	97	51962	25.81 ug/L	98
49)	Toluene	14.33	92	227040	25.32 ug/L	99
51)	1,3-Dichloropropane	14.39	76	116847	25.97 ug/L	100
52)	2-Hexanone	14.57	43	90891	29.13 ug/L	99
53)	Dibromochloromethane	14.76	129	49293	25.69 ug/L	99
54)	1,2-Dibromoethane	15.10	107	47671	25.81 ug/L	99
55)	Tetrachloroethene	15.32	164	55982	23.88 ug/L	99
56)	1,1,1,2-Tetrachloroethane	16.13	131	51828	24.90 ug/L	97
57)	Chlorobenzene	16.24	112	188123	25.18 ug/L	99
58)	Ethylbenzene	16.50	91	402640	25.39 ug/L	99
59)	m,p-Xylenes	16.76	106	138121	24.57 ug/L	99
60)	Styrene	17.22	104	198589	25.31 ug/L	99
61)	o-Xylene	17.33	106	127886	25.54 ug/L	99
64)	Bromoform	16.94	173	27932	26.23 ug/L	98
65)	1,1,2,2-Tetrachloroethane	17.31	83	76243	26.38 ug/L	99
66)	1,2,3-Trichloropropane	17.51	110	14734	25.64 ug/L	96
67)	trans-1,4-Dichloro-2-buten	17.52	53	24518	23.67 ug/L	98
68)	Isopropylbenzene	17.82	105	339655	26.17 ug/L	99
69)	Bromobenzene	18.18	156	60067	25.59 ug/L	98
70)	n-Propylbenzene	18.43	91	460703	25.10 ug/L	99
71)	2-Chlorotoluene	18.58	91	236932	24.33 ug/L	99
72)	4-Chlorotoluene	18.69	91	230735	24.71 ug/L	100
73)	1,3,5-Trimethylbenzene	18.83	105	243944	24.55 ug/L	100
74)	tert-Butylbenzene	19.21	119	214013	25.16 ug/L	100
75)	1,2,4-Trimethylbenzene	19.36	105	231056	24.28 ug/L	99
76)	sec-Butylbenzene	19.49	105	363454	24.79 ug/L	99
77)	1,3-Dichlorobenzene	19.60	146	116509	25.61 ug/L	99
78)	1,4-Dichlorobenzene	19.68	146	112729	25.62 ug/L	100
79)	p-Isopropyltoluene	19.72	119	255555	24.43 ug/L	100
80)	1,2-Dichlorobenzene	20.13	146	96950	26.62 ug/L	99
81)	n-Butylbenzene	20.21	91	288952	25.22 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.70	75	8761	30.25 ug/L	94
83)	1,2,4-Trichlorobenzene	22.44	180	48803	29.15 ug/L	98
84)	Napthalene	22.81	128	113882	30.74 ug/L	100
85)	Hexachlorobutadiene	22.85	225	27114	29.14 ug/L	97
86)	1,2,3-Trichlorobenzene	23.08	180	39257	30.56 ug/L	99

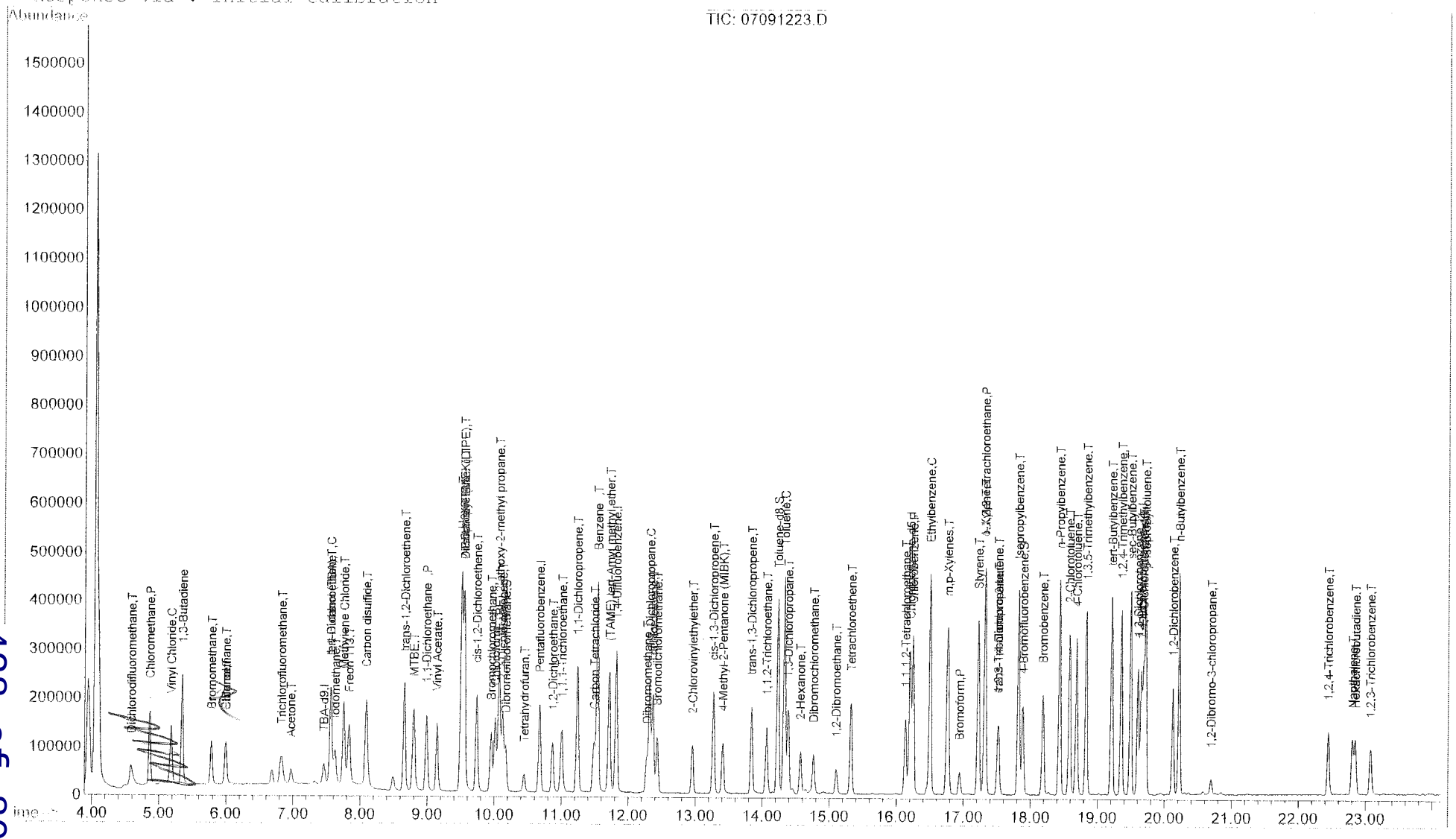
MNM

(#) = qualifier out of range (m) = manual integration
07091223.D 070912.M Wed Jul 11 08:20:26 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\070912\07091223.D Vial: 17
Acq On : 9 Jul 2012 5:07 pm Operator: MNM
Sample : 25 PPB ICV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:20 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



ANALYTICAL DATA

METHOD: 8260

DATE: 09/14/12, 09/16/12, 09/20/12

WORK ORDER: PVI0717

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091412

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09141201.d	1.	TUNE		14 Sep 2012 06:30
2	2	09141202.d	1.	25 PPB CCV		14 Sep 2012 06:50
3	3	09141203.d	1.	12I0474-BS1		14 Sep 2012 07:23
4	4	09141204.d	1.	12I0474-BSD1		14 Sep 2012 07:55
5	5	09141205.d	1.	12I0474-BLK1		14 Sep 2012 08:28
6	6	09141206.d	1.	PVI0635-03		14 Sep 2012 09:01
7	7	09141207.d	1.	12I0474-MS1		14 Sep 2012 09:40
8	8	09141208.d	1.	12I0474-MSD1		14 Sep 2012 10:12
9	9	09141209.d	1.	PVI0635-04		14 Sep 2012 10:45
10	10	09141210.d	1.	PVI0635-05		14 Sep 2012 11:18
11	11	09141211.d	1.	PVI0635-06		14 Sep 2012 11:50
12	12	09141212.d	1.	PVI0635-07		14 Sep 2012 12:23
13	13	09141213.d	1.	PVI0635-08		14 Sep 2012 12:56
14	14	09141214.d	1.	PVI0717-04		14 Sep 2012 13:28
15	15	09141215.d	1.	PVI0717-05		14 Sep 2012 14:01
16	16	09141216.d	1.	PVI0717-06		14 Sep 2012 14:33
17	17	09141217.d	1.	PVI0717-07		14 Sep 2012 15:06
18	18	09141218.d	1.	PVI0717-08		14 Sep 2012 15:38
19	19	09141219.d	1.	PVI0717-09		14 Sep 2012 16:11
20	1	09141220.d	1.	TUNE		14 Sep 2012 16:52
21	2	09141221.d	1.	25 PPB CCV		14 Sep 2012 17:09
22	3	09141222.d	1.	BLANK		14 Sep 2012 17:41
23	4	09141223.d	1.	PVI0522-04	200X	14 Sep 2012 18:14
24	5	09141224.d	1.	PVI0469-04	5X	14 Sep 2012 18:47
25	6	09141225.d	1.	PVI0626-01		14 Sep 2012 19:19
26	7	09141226.d	1.	PVI0626-03		14 Sep 2012 19:52
27	8	09141227.d	1.	PVI0627-05		14 Sep 2012 20:24
28	9	09141228.d	1.	PVI0627-06		14 Sep 2012 20:57
29	10	09141229.d	1.	PVI0627-08@TB		14 Sep 2012 21:30
30	11	09141230.d	1.	PVI0646-01		14 Sep 2012 22:02
31	12	09141231.d	1.	PVI0596-02		14 Sep 2012 22:35
32	13	09141232.d	1.	PVI0596-03		14 Sep 2012 23:07
33	14	09141233.d	1.	PVI0596-04		14 Sep 2012 23:40
34	15	09141234.d	1.	PVI0596-05		15 Sep 2012 00:13
35	16	09141235.d	1.	PVI0596-06		15 Sep 2012 00:45
36	17	09141236.d	1.	PVI0596-07		15 Sep 2012 01:18
37	18	09141237.d	1.	PVI0596-08		15 Sep 2012 01:50
38	19	09141238.d	1.	PVI0596-09		15 Sep 2012 02:23
39	20	09141239.d	1.	PVI0596-10		15 Sep 2012 02:56
40	21	09141240.d	1.	PVI0596-11		15 Sep 2012 03:28
41	22	09141241.d	1.	PVI0596-12		15 Sep 2012 04:01
42	23	09141242.d	1.	PVI0596-13		15 Sep 2012 04:33

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MM 9/17/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/14/12
ANALYST: MM
QC BATCH # (s) : 1210474/323/371/389
SEQUENCE FILE: C:\GCMS2\DATA\ 091412.S
CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09141201	Tune	2µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	12DBCP,↑
3	03	1210474-BS1	✓				
4	04	-BSD1	✓				
5	05	-BLK1	✓	✓			
6	06	PV10635-03A	✓	✓			same
7	07	1210474-MS1	✓	✓			
8	08	-MSD1	✓	✓			
9	09	PV10635-04A	✓	✓			
10	10	-05A	✓	✓			
11	11	-06A	✓	✓			
12	12	-07A	✓	✓			
13	13	-08A	✓	✓			
14	14	0714-04A	✓	✓			
15	15	-05A	✓	✓			
16	16	-06A	✓	✓			
17	17	-07A	✓	✓			
18	18	-08A	✓	✓			
19	19	-09A	✓	✓			
1	20	Tune	2uL	NA	8260	NA	
2	21	25 ppb CCV	✓			H_2O	A↑H↑
3	22	Blank	✓			↓	
4	23	PV10522-04 @200X	1uL→10mL			SOIL	TX 323
5	24	0469-04A @5X	40uL→10mL				TX 124 371
6	25	0626-01B	200uL				
7	26	-03B	200uL				
8	27	627-05A @10X	200uL				
9	28	627-06A	200uL				
10	29	627-08A @TB	200uL				
11	30	0646-01A	200uL				

STANDARD ID NUMBERS

ICV / H_2O LCS: PV0 5577/5606
CCV/CALIBRATION STD: PV0 5486/5431
Internal Std: 5519
IS/Surrogate/BFB: ✓ 5503/5530

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL CMR Std + 5µL IS → 10mL H_2O
20 ppb CCV PREPARATION: NA
ARCHON REVIEWED By/Date: MM 9/17/12
SEQUENCE REVIEWED By/Date:
FINAL REVIEWER / Date:

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/14/12 cont.
ANALYST: ~~[illegible]~~
CALIBRATION METHOD(S):

QC BATCH # (s) : P64
SEQUENCE FILE: C:\GCMS2\DATA\ SW

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 200mL ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
12	091412 31	PVI0596-02A	✓	NA	8260	SOIL	0389
13	32	-03A	✓				
14	33	-04A	✓				
15	34	-05A	✓				
16	35	-06A	✓				
17	36	-07A	✓				
18	37	-08A	✓				
19	38	-09A	✓				
20	39	-10A	✓				
21	40	-11A	✓				
22	41	-12A	✓				
23	42	-13A	✓				

~~[illegible]~~ 9/14/12

STANDARD ID NUMBERS

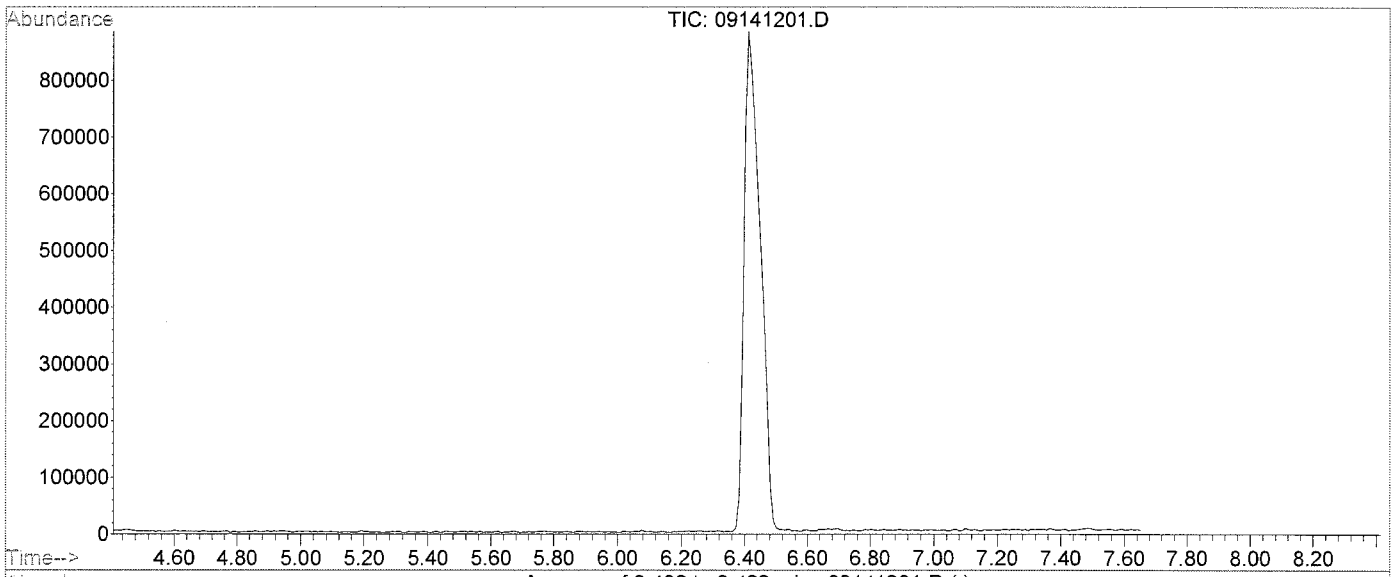
ICV / H_2O LCS: P64
CCV/CALIBRATION STD: P
Internal Std: SW
IS/Surrogate/BFB:

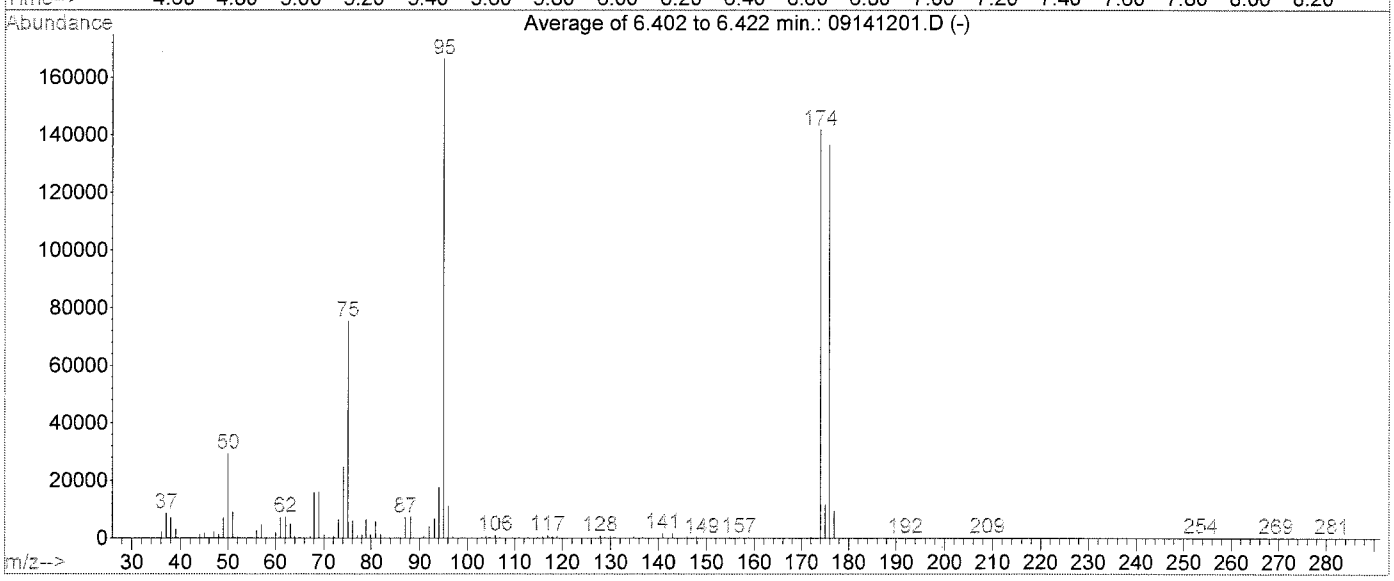
REQUIRED REVIEWS

25 ppb CCV PREPARATION:
20 ppb CCV PREPARATION: P64
ARCHON REVIEWED By/Date: P
SEQUENCE REVIEWED By/Date: SW
FINAL REVIEWER / Date:

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141201.D Vial: 1
Acq On : 14 Sep 2012 6:30 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration





Spectrum Information: Average of 6.402 to 6.422 min.

9/17/12

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	29301	PASS
75	95	30	60	45.3	75357	PASS
95	95	100	100	100.0	166315	PASS
96	95	5	9	6.7	11132	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.2	141688	PASS
175	174	5	9	8.2	11596	PASS
176	174	95	101	96.2	136304	PASS
177	176	5	9	7.0	9481	PASS

MM 9/17/12

09141201.D 081012.M Fri Sep 14 14:32:14 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09141202.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091412\
Operator	MNM
Date Acquired	9/14/2012 6:50
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/17/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	80964	52594	26297	105188	TRUE
4)	Pentafluorobenzene	283189	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	387054	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	274292	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	112561	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	1643.45	250	657%	36%	150%	FALSE	NT
3)	tert-Butanol (TBA)	115.10	125	92%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	26.95	25	108%	60%	140%	TRUE	
6)	Chloromethane	25.12	25	100%	48%	144%	TRUE	
7)	Vinyl Chloride	27.57	25	110%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	25.90	25	104%	50%	141%	TRUE	
9)	Bromomethane	26.20	25	105%	40%	144%	TRUE	
10)	Chloroethane	25.79	25	103%	60%	132%	TRUE	
11)	Trichlorofluoromethane	29.88	25	120%	68%	136%	TRUE	
12)	Acetone	35.49	25	142%	12%	150%	TRUE	
13)	Iodomethane	26.54	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	26.19	25	105%	80%	120%	TRUE	CCC
15)	Methylene Chloride	26.33	25	105%	68%	128%	TRUE	
16)	Freon 113	27.64	25	111%	76%	124%	TRUE	
17)	Carbon disulfide	25.94	25	104%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	22.97	25	92%	76%	120%	TRUE	
19)	MTBE	24.59	25	98%	64%	140%	TRUE	
20)	1,1-Dichloroethane	24.25	25	97%	72%	124%	TRUE	
21)	Vinyl Acetate	20.90	25	84%	48%	150%	TRUE	MM 9/17/12
22)	n-Hexane	23.35	25	93%	56%	150%	TRUE	
23)	2-Butanone (MEK)	29.10	25	116%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	21.36	25	85%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	22.20	25	89%	72%	128%	TRUE	
26)	Bromochloromethane	23.97	25	96%	72%	132%	TRUE	
27)	Chloroform	24.93	25	100%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	27.70	25	111%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop	23.86	25	95%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.53**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	23.06	25	92%	64%	139%	TRUE	
32)	1,2-Dichloroethane	27.18	25	109%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	27.98	25	112%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	23.67	25	95%	68%	140%	TRUE	
36)	1,1-Dichloropropene	24.36	25	97%	76%	128%	TRUE	
37)	Carbon Tetrachloride	30.79	25	123%	72%	136%	TRUE	
38)	Benzene	23.03	25	92%	76%	120%	TRUE	

39) Dibromomethane	26.01	25	104%	72%	132%	TRUE	
40) 1,2-Dichloropropane	21.67	25	87%	80%	120%	TRUE	CCC
41) Trichloroethene	24.22	25	97%	80%	120%	TRUE	
42) Bromodichloromethane	26.47	25	106%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	13.84	25	55%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	24.63	25	99%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	22.52	25	90%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	26.53	25	106%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	25.28	25	101%	72%	132%	TRUE	
48) **Toluene-d8**	**23.74**	**25**	95%	80%	120%	**TRUE**	
49) Toluene	23.87	25	95%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	23.64	25	95%	80%	124%	TRUE	
52) 2-Hexanone	25.01	25	100%	52%	150%	TRUE	
53) Dibromochloromethane	27.80	25	111%	80%	128%	TRUE	
54) 1,2-Dibromoethane	25.22	25	101%	80%	128%	TRUE	
55) Tetrachloroethene	23.27	25	93%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	25.88	25	104%	76%	124%	TRUE	
57) Chlorobenzene	23.49	25	94%	80%	120%	TRUE	
58) Ethylbenzene	24.88	25	100%	80%	120%	TRUE	CCC
59) m,p-Xylenes	25.41	25	102%	80%	120%	TRUE	
60) Styrene	25.85	25	103%	84%	124%	TRUE	
61) o-Xylene	24.52	25	98%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**25.54**	**25**	102%	80%	120%	**TRUE**	
64) Bromoform	29.02	25	116%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	26.07	25	104%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	26.28	25	105%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	23.65	25	95%	48%	138%	TRUE	
68) Isopropylbenzene	25.34	25	101%	76%	132%	TRUE	
69) Bromobenzene	25.29	25	101%	76%	128%	TRUE	
70) n-Propylbenzene	24.82	25	99%	76%	132%	TRUE	
71) 2-Chlorotoluene	26.01	25	104%	80%	124%	TRUE	
72) 4-Chlorotoluene	26.27	25	105%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	26.69	25	107%	80%	128%	TRUE	
74) tert-Butylbenzene	26.05	25	104%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	26.13	25	105%	80%	128%	TRUE	
76) sec-Butylbenzene	25.01	25	100%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	24.04	25	96%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	24.72	25	99%	76%	120%	TRUE	
79) p-Isopropyltoluene	25.68	25	103%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
81) n-Butylbenzene	24.94	25	100%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	33.34	25	133%	64%	128%	FALSE	
83) 1,2,4-Trichlorobenzene	25.58	25	102%	76%	128%	TRUE	
84) Napthalene	24.79	25	99%	68%	136%	TRUE	
85) Hexachlorobutadiene	31.12	25	124%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	26.08	25	104%	72%	128%	TRUE	

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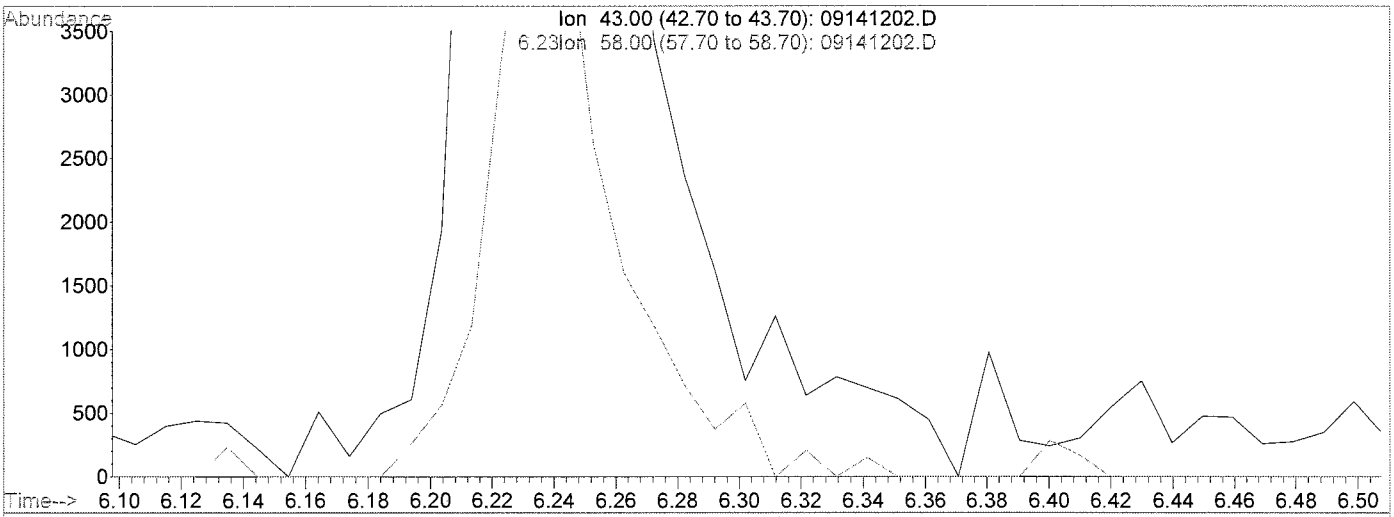
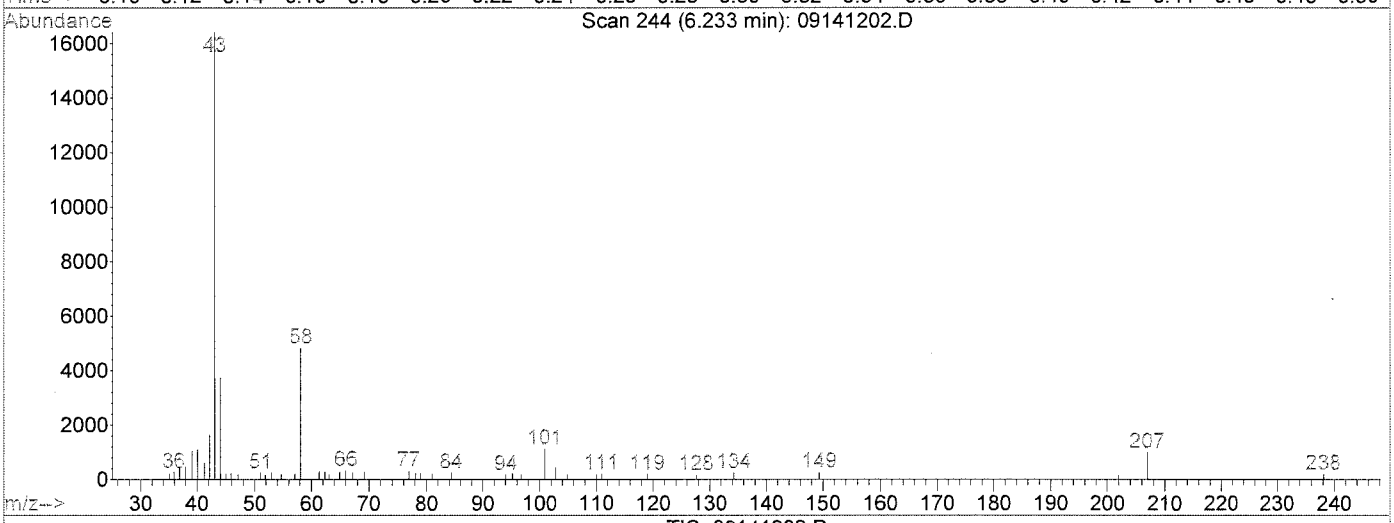
MM

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141202.D

(12) Acetone (T)

6.23min 41.86ug/L

response 49910

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.32
0.00	0.00	0.00
0.00	0.00	0.00

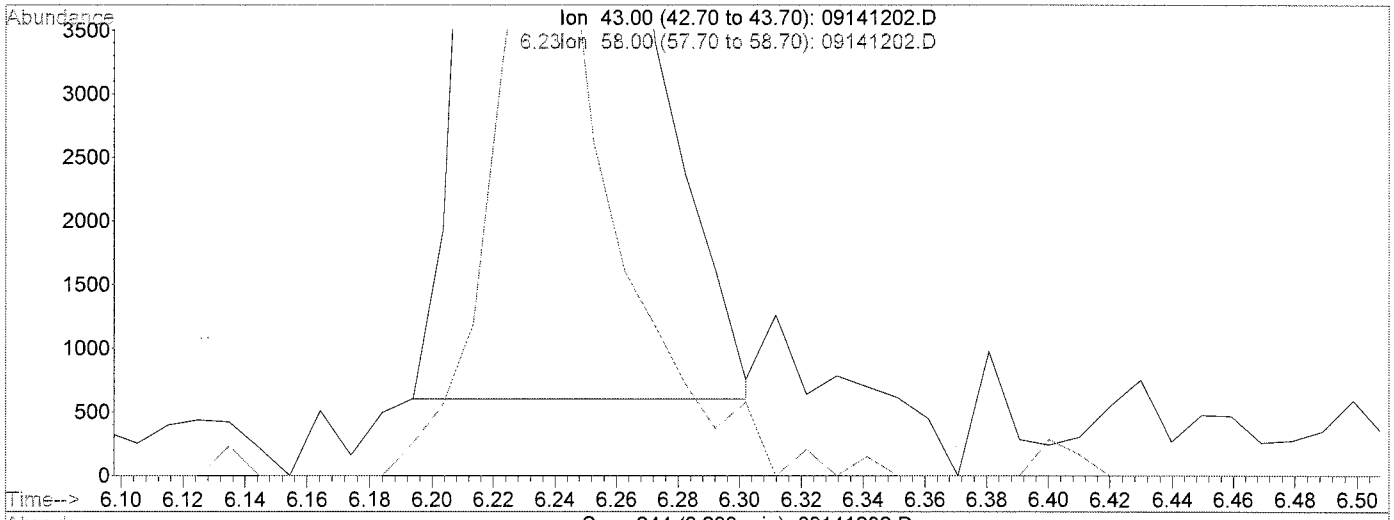
9/17/12

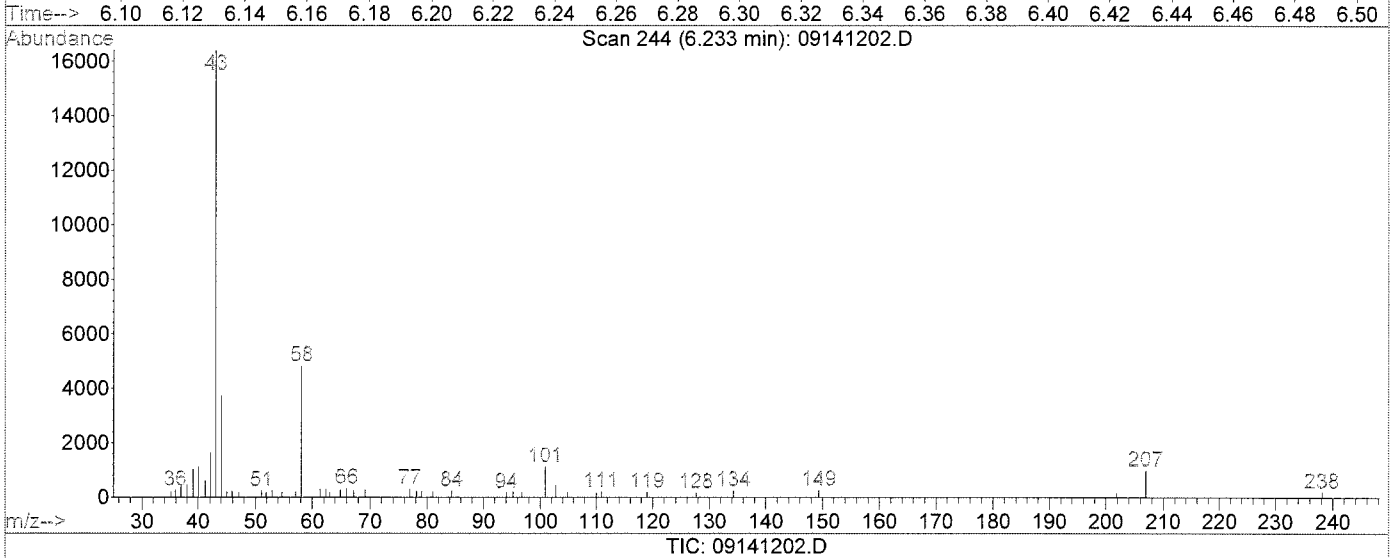
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141202.D

(12) Acetone (T)

6.23min 35.49ug/L m

response 42314

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.05
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	80964	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	283189	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	387054	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	274292	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.75	152	112561	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	126466	25.53 ug/L	-0.02
Spiked Amount 25.000			Recovery = 102.12%		
48) Toluene-d8	13.31	98	362881	23.74 ug/L	-0.02
Spiked Amount 25.000			Recovery = 94.96%		
62) 4-Bromofluorobenzene	16.93	95	108247	25.54 ug/L	-0.02
Spiked Amount 25.000			Recovery = 102.16%		

Target Compounds					Qvalue
2) Ethanol	5.39	45	71737	1643.45 ug/L	86
3) tert-Butanol (TBA)	6.80	59	54513	115.10 ug/L	99
5) Dichlorodifluoromethane	4.10	85	280075	26.95 ug/L	99
6) Chloromethane	4.33	50	254010	25.12 ug/L	97
7) Vinyl Chloride	4.62	62	255108	27.57 ug/L	100
8) 1,3-Butadiene	4.77	54	129659	25.90 ug/L	97
9) Bromomethane	5.17	94	148061	26.20 ug/L	97
10) Chloroethane	5.37	64	118383	25.79 ug/L	97
11) Trichlorofluoromethane	6.10	101	244452	29.88 ug/L	100
12) Acetone	6.23	43	42314m	35.49 ug/L	
13) Iodomethane	6.84	142	253709	26.54 ug/L	91
14) 1,1-Dichloroethene	6.78	96	149123	26.19 ug/L	95
15) Methylene Chloride	6.98	84	133456	26.33 ug/L	96
16) Freon 113	7.05	101	163018	27.64 ug/L	97
17) Carbon disulfide	7.28	76	480288	25.94 ug/L	98
18) trans-1,2-Dichloroethene	7.84	96	151638	22.97 ug/L	98
19) MTBE	7.97	73	229570	24.59 ug/L	100
20) 1,1-Dichloroethane	8.16	63	248667	24.25 ug/L	98
21) Vinyl Acetate	8.32	43	151883	20.90 ug/L	100
22) n-Hexane	8.66	86	37839	23.35 ug/L	72
23) 2-Butanone (MEK)	8.71	72	11868	29.10 ug/L #	94
24) Diisopropyl Ether (DIPE)	8.71	45	369676	21.36 ug/L	92
25) cis-1,2-Dichloroethene	8.89	96	133453	22.20 ug/L	97
26) Bromochloromethane	9.10	128	57191	23.97 ug/L	94
27) Chloroform	9.15	83	223599	24.93 ug/L #	97
28) 2,2-Dichloropropane	9.25	77	188076	27.70 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	298154	23.86 ug/L	99
31) Tetrahydrofuran	9.58	72	8554	23.06 ug/L	80
32) 1,2-Dichloroethane	9.99	62	117591	27.18 ug/L	96
33) 1,1,1-Trichloroethane	10.12	97	210209	27.98 ug/L	100
34) (TAME) tert-Amyl methyl et	10.84	73	238418	23.67 ug/L	97
36) 1,1-Dichloropropene	10.35	75	201637	24.36 ug/L	98
37) Carbon Tetrachloride	10.59	117	199781	30.79 ug/L	97
38) Benzene	10.64	78	454905	23.03 ug/L	98
39) Dibromomethane	11.37	93	60638	26.01 ug/L	96
40) 1,2-Dichloropropane	11.42	63	101990	21.67 ug/L #	88

(#) = qualifier out of range (m) = manual integration
09141202.D 081012.M Fri Sep 14 14:32:37 2012

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	134109	24.22 ug/L		96
42)	Bromodichloromethane	11.53	83	143382	26.47 ug/L		96
43)	2-Chlorovinylethylether	12.07	63	24614	13.84 ug/L		98
44)	cis-1,3-Dichloropropene	12.37	75	155561	24.63 ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	63851	22.52 ug/L		94
46)	trans-1,3-Dichloropropene	12.94	75	127397	26.53 ug/L		100
47)	1,1,2-Trichloroethane	13.15	97	69211	25.28 ug/L		94
49)	Toluene	13.40	92	268080	23.87 ug/L		100
51)	1,3-Dichloropropane	13.47	76	115161	23.64 ug/L		98
52)	2-Hexanone	13.67	43	50915	25.01 ug/L	#	94
53)	Dibromochloromethane	13.84	129	98181	27.80 ug/L		98
54)	1,2-Dibromoethane	14.17	107	74630	25.22 ug/L		98
55)	Tetrachloroethene	14.39	164	112471	23.27 ug/L		100
56)	1,1,1,2-Tetrachloroethane	15.19	131	100215	25.88 ug/L		97
57)	Chlorobenzene	15.30	112	264477	23.49 ug/L		96
58)	Ethylbenzene	15.57	91	489381	24.88 ug/L		99
59)	m,p-Xylenes	15.82	106	190691	25.41 ug/L		99
60)	Styrene	16.28	104	259823	25.85 ug/L		98
61)	o-Xylene	16.37	106	170032	24.52 ug/L		96
64)	Bromoform	15.99	173	56236	29.02 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.37	83	78831	26.07 ug/L		97
66)	1,2,3-Trichloropropane	16.58	110	19150	26.28 ug/L		93
67)	trans-1,4-Dichloro-2-buten	16.60	53	17503	23.65 ug/L	#	89
68)	Isopropylbenzene	16.88	105	426049	25.34 ug/L		99
69)	Bromobenzene	17.23	156	103601	25.29 ug/L		97
70)	n-Propylbenzene	17.50	91	529605	24.82 ug/L		100
71)	2-Chlorotoluene	17.62	91	300141	26.01 ug/L		97
72)	4-Chlorotoluene	17.73	91	296473	26.27 ug/L		95
73)	1,3,5-Trimethylbenzene	17.89	105	349909	26.69 ug/L		96
74)	tert-Butylbenzene	18.28	119	305028	26.05 ug/L		96
75)	1,2,4-Trimethylbenzene	18.44	105	324060	26.13 ug/L		99
76)	sec-Butylbenzene	18.60	105	473893	25.01 ug/L		100
77)	1,3-Dichlorobenzene	18.71	146	179203	24.04 ug/L		96
78)	1,4-Dichlorobenzene	18.79	146	180642	24.72 ug/L		96
79)	p-Isopropyltoluene	18.84	119	364612	25.68 ug/L		97
80)	1,2-Dichlorobenzene	19.27	146	146962	24.21 ug/L		98
81)	n-Butylbenzene	19.37	91	339526	24.94 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.85	75	10071	33.34 ug/L		93
83)	1,2,4-Trichlorobenzene	21.49	180	83259	25.58 ug/L		100
84)	Napthalene	21.81	128	129075	24.79 ug/L		99
85)	Hexachlorobutadiene	21.87	225	68811	31.12 ug/L		97
86)	1,2,3-Trichlorobenzene	22.07	180	68691	26.08 ug/L		95

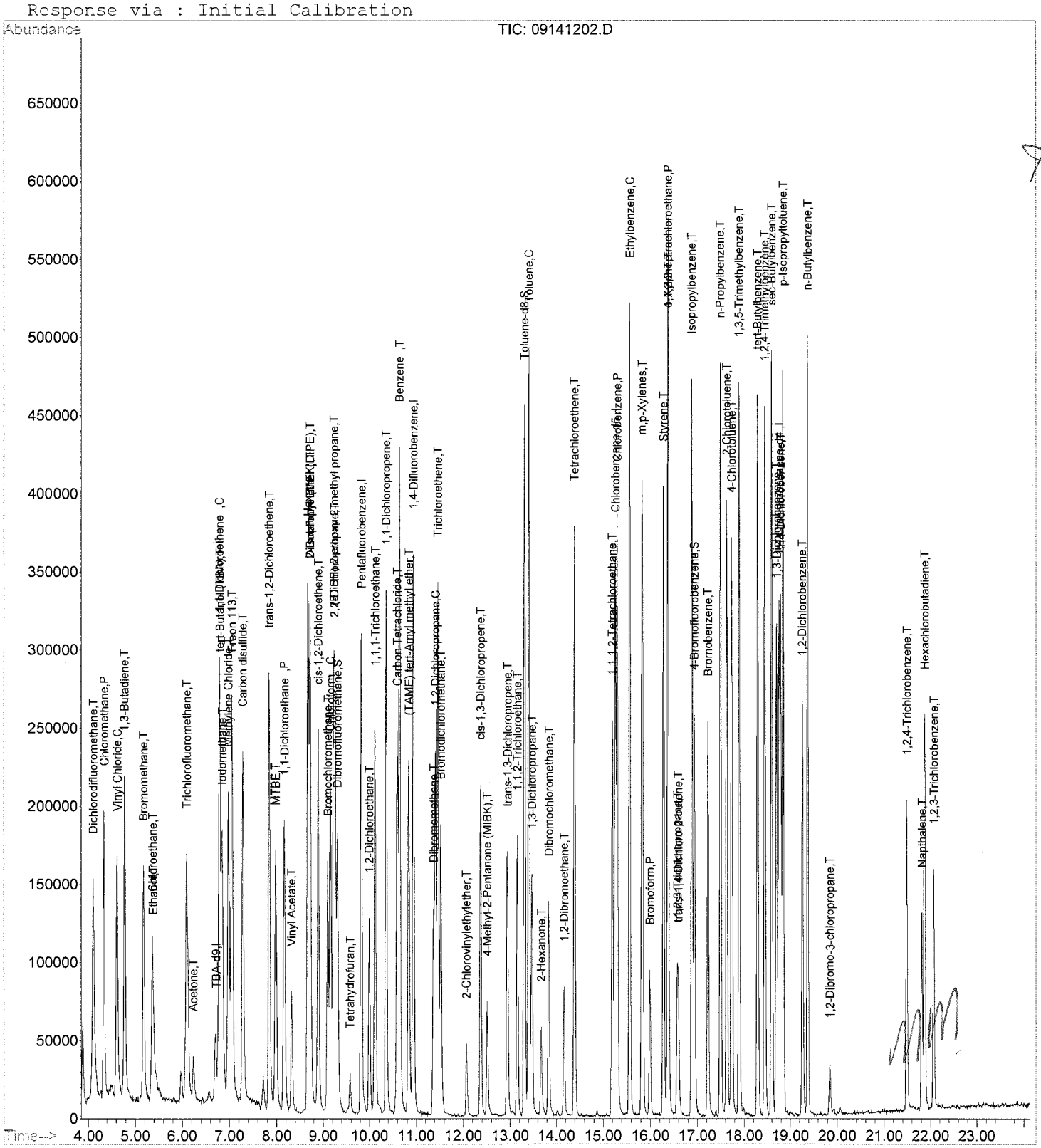
MM

(#) = qualifier out of range (m) = manual integration
09141202.D 081012.M Fri Sep 14 14:32:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:32 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	154	-0.02
2	T	Ethanol	0.108	0.709	-556.5#	1071#	0.00
3	T	tert-Butanol (TBA)	1.170	1.077	7.9	139	-0.03
4	I	Pentafluorobenzene	1.000	1.000	0.0	101	-0.02
5	T	Dichlorodifluoromethane	0.917	0.989	-7.9	108	0.00
6	P	Chloromethane	0.893	0.897	-0.4	102	-0.02
7	C	Vinyl Chloride	0.817	0.901	-10.3	109	0.00
8	T	1,3-Butadiene	0.442	0.458	-3.6	102	-0.02
9	T	Bromomethane	0.499	0.523	-4.8	108	-0.02
10	T	Chloroethane	0.405	0.418	-3.2	103	0.00
11	T	Trichlorofluoromethane	0.722	0.863	-19.5	120	-0.02
12	T	Acetone	0.105	0.149	-41.9#	129	-0.03
13	T	Iodomethane	0.844	0.896	-6.2	108	-0.02
14	C	1,1-Dichloroethene	0.503	0.527	-4.8	113	-0.03
15	T	Methylene Chloride	0.448	0.471	-5.1	111	-0.02
16	T	Freon 113	0.521	0.576	-10.6	112	-0.02
17	T	Carbon disulfide	1.635	1.696	-3.7	103	-0.02
18	T	trans-1,2-Dichloroethene	0.583	0.535	8.2	97	-0.03
19	T	MTBE	0.824	0.811	1.6	101	-0.03
20	P	1,1-Dichloroethane	0.905	0.878	3.0	100	-0.02
21	T	Vinyl Acetate	0.642	0.536	16.5	85	-0.02
22		n-Hexane	0.143	0.134	6.3	98	-0.03
23	T	2-Butanone (MEK)	0.036	0.042#	-16.7	109	-0.02
24	T	Diisopropyl Ether (DIPE)	1.528	1.305	14.6	89	-0.03
25	T	cis-1,2-Dichloroethene	0.531	0.471	11.3	93	-0.02
26	T	Bromochloromethane	0.211	0.202	4.3	98	-0.02
27	C	Chloroform	0.792	0.790	0.3	100	-0.02
28	T	2,2-Dichloropropane	0.599	0.664	-10.9	115	-0.02
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	1.053	4.5	100	-0.02
30	S	Dibromofluoromethane	0.437	0.447	-2.3	105	-0.02
31	T	Tetrahydrofuran	0.033	0.030#	9.1	106	-0.02
32	T	1,2-Dichloroethane	0.382	0.415	-8.6	112	-0.02
33	T	1,1,1-Trichloroethane	0.663	0.742	-11.9	110	-0.02
34	T	(TAME) tert-Amyl methyl eth	0.889	0.842	5.3	99	-0.02
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
36	T	1,1-Dichloropropene	0.535	0.521	2.6	98	-0.02
37	T	Carbon Tetrachloride	0.419	0.516	-23.2	122	-0.02
38	T	Benzene	1.276	1.175	7.9	92	-0.02
39	T	Dibromomethane	0.151	0.157	-4.0	104	-0.02
40	C	1,2-Dichloropropane	0.304	0.264	13.2	86	-0.02
41	T	Trichloroethene	0.358	0.346	3.4	95	-0.02
42	T	Bromodichloromethane	0.350	0.370	-5.7	102	-0.03
43	T	2-Chlorovinylethylether	0.115	0.064#	44.3#	56	-0.02
44	T	cis-1,3-Dichloropropene	0.408	0.402	1.5	94	-0.02
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.165	9.8	96	-0.02
46	T	trans-1,3-Dichloropropene	0.310	0.329	-6.1	103	0.00
47	T	1,1,2-Trichloroethane	0.177	0.179	-1.1	96	-0.02
48	S	Toluene-d8	0.987	0.938	5.0	94	-0.02

(#) = Out of Range

09141202.D 081012.M Fri Sep 14 14:32:41 2012

9/17/12

MM 9/17/12

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141202.D Vial: 2
Acq On : 14 Sep 2012 6:50 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.693	4.5	95	-0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
51	T	1,3-Dichloropropane	0.444	0.420	5.4	93	-0.02
52	T	2-Hexanone	0.186	0.186	0.0	96	-0.02
53	T	Dibromochloromethane	0.322	0.358	-11.2	107	-0.02
54	T	1,2-Dibromoethane	0.270	0.272	-0.7	98	0.00
55	T	Tetrachloroethene	0.440	0.410	6.8	90	-0.02
56	T	1,1,1,2-Tetrachloroethane	0.353	0.365	-3.4	98	-0.02
57	P	Chlorobenzene	1.026	0.964	6.0	92	-0.02
58	C	Ethylbenzene	1.793	1.784	0.5	96	-0.02
59	T	m,p-Xylenes	0.684	0.695	-1.6	97	-0.02
60	T	Styrene	0.916	0.947	-3.4	96	-0.02
61	T	o-Xylene	0.632	0.620	1.9	95	-0.02
62	S	4-Bromofluorobenzene	0.386	0.395	-2.3	103	-0.02
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	-0.02
64	P	Bromoform	0.430	0.500	-16.3	107	-0.02
65	P	1,1,2,2-Tetrachloroethane	0.672	0.700	-4.2	98	-0.02
66	T	1,2,3-Trichloropropane	0.162	0.170	-4.9	99	0.00
67	T	trans-1,4-Dichloro-2-butene	0.150	0.155	-3.3	93	-0.02
68	T	Isopropylbenzene	3.734	3.785	-1.4	95	-0.02
69	T	Bromobenzene	0.910	0.920	-1.1	92	-0.02
70	T	n-Propylbenzene	4.740	4.705	0.7	91	0.00
71	T	2-Chlorotoluene	2.563	2.666	-4.0	99	-0.02
72	T	4-Chlorotoluene	2.506	2.634	-5.1	100	-0.02
73	T	1,3,5-Trimethylbenzene	2.912	3.109	-6.8	96	-0.02
74	T	tert-Butylbenzene	2.601	2.710	-4.2	94	-0.02
75	T	1,2,4-Trimethylbenzene	2.755	2.879	-4.5	96	-0.02
76	T	sec-Butylbenzene	4.209	4.210	-0.0	90	0.00
77	T	1,3-Dichlorobenzene	1.656	1.592	3.9	89	0.00
78	T	1,4-Dichlorobenzene	1.623	1.605	1.1	92	-0.02
79	T	p-Isopropyltoluene	3.154	3.239	-2.7	91	0.00
80	T	1,2-Dichlorobenzene	1.348	1.306	3.1	88	0.00
81	T	n-Butylbenzene	3.024	3.016	0.3	87	-0.02
82	T	1,2-Dibromo-3-chloropropane	0.063	0.089#	-41.3#	109	0.00
83	T	1,2,4-Trichlorobenzene	0.723	0.740	-2.4	87	-0.02
84	T	Napthalene	1.156	1.147	0.8	85	0.00
85	T	Hexachlorobutadiene	0.549	0.611	-11.3	96	0.00
86	T	1,2,3-Trichlorobenzene	0.602	0.610	-1.3	88	-0.02

T

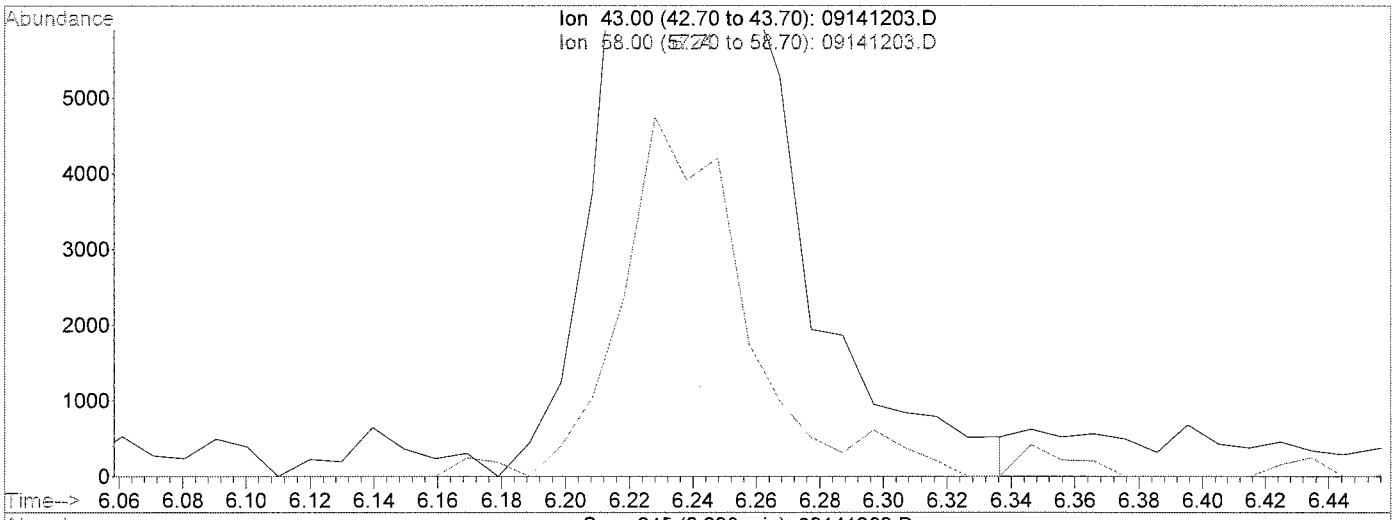
MM

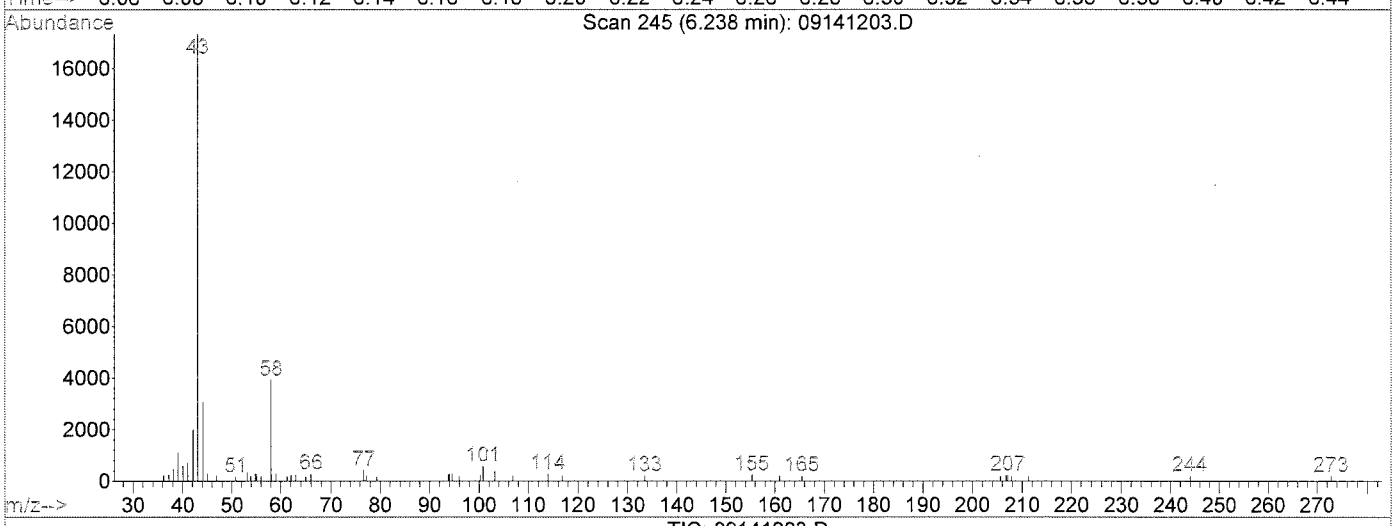
(#) = Out of Range SPCC's out = 0 CCC's out = 0
09141202.D 081012.M Fri Sep 14 14:32:41 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141203.D

(12) Acetone (T)

6.24min 39.93ug/L

response 47567

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	25.65#
0.00	0.00	0.00
0.00	0.00	0.00

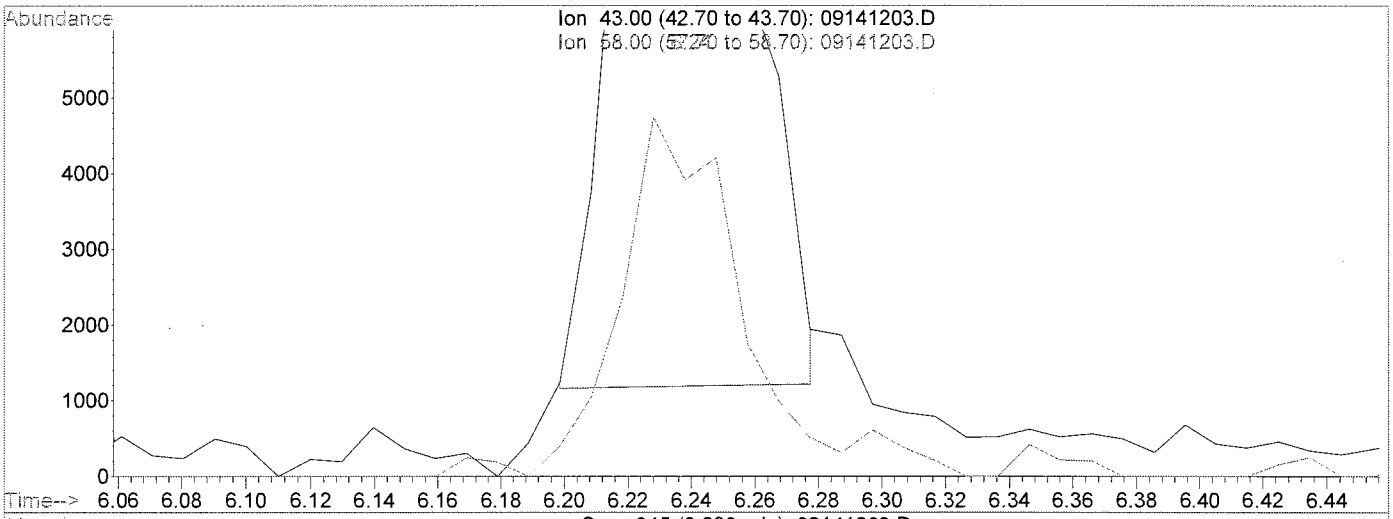
9/17/12

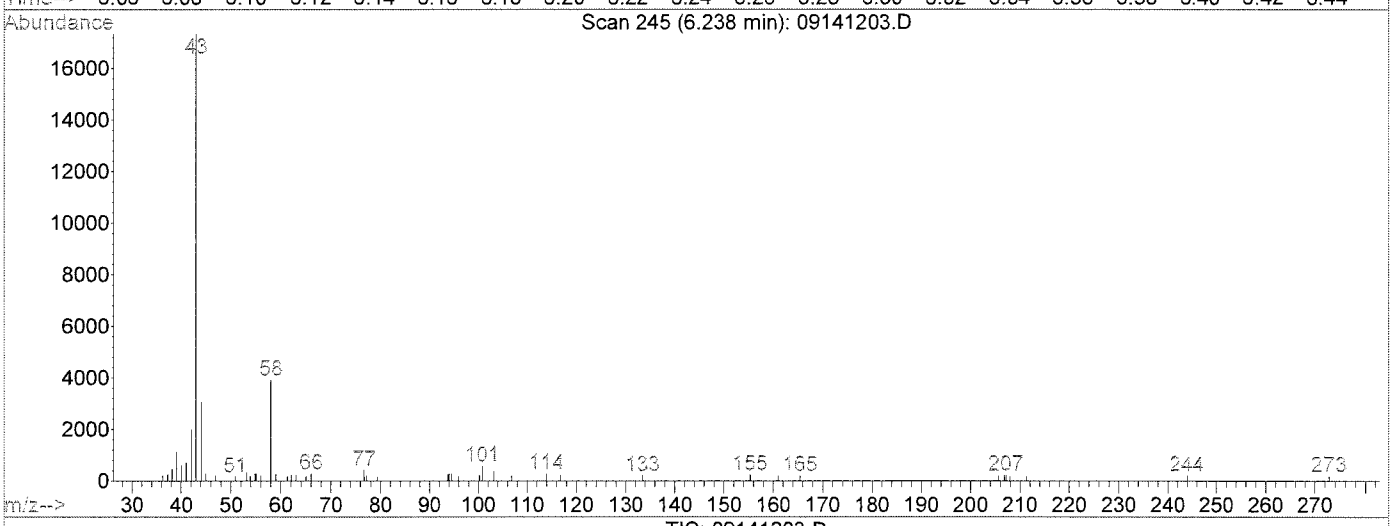
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141203.D

9/17/12

(12) Acetone (T)

6.24min 31.67ug/L m

response 37726

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.34
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	67676	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	282998	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	397045	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	299511	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	121486	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	127769	25.81 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 103.24%	
48) Toluene-d8	13.31	98	383626	24.47 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 97.88%	
62) 4-Bromofluorobenzene	16.94	95	118474	25.60 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 102.40%	

Target Compounds					Qvalue
2) Ethanol	5.38	45	81187	2225.14 ug/L #	72
3) tert-Butanol (TBA)	6.81	59	52949	133.75 ug/L	99
5) Dichlorodifluoromethane	4.09	85	310650	29.92 ug/L	100
6) Chloromethane	4.33	50	280739	27.78 ug/L	97
7) Vinyl Chloride	4.62	62	240985	26.06 ug/L	98
8) 1,3-Butadiene	4.77	54	190397	38.06 ug/L	97
9) Bromomethane	5.18	94	154436	27.34 ug/L	98
10) Chloroethane	5.36	64	113565	24.76 ug/L	97
11) Trichlorofluoromethane	6.09	101	281351	34.42 ug/L	99
12) Acetone	6.24	43	37726m	31.67 ug/L	
13) Iodomethane	6.84	142	272803	28.55 ug/L #	90
14) 1,1-Dichloroethene	6.79	96	146722	25.79 ug/L	95
15) Methylene Chloride	6.98	84	115797	22.86 ug/L	94
16) Freon 113	7.05	101	176258	29.91 ug/L	99
17) Carbon disulfide	7.28	76	486270	26.28 ug/L #	95
18) trans-1,2-Dichloroethene	7.84	96	146040	22.13 ug/L	98
19) MTBE	7.98	73	226146	24.24 ug/L	95
20) 1,1-Dichloroethane	8.16	63	222914	21.76 ug/L	99
21) Vinyl Acetate	8.32	43	173352	23.87 ug/L	100
22) n-Hexane	8.67	86	33403	20.62 ug/L	97
23) 2-Butanone (MEK)	8.70	72	11600	28.46 ug/L #	79
24) Diisopropyl Ether (DIPE)	8.72	45	373319	21.58 ug/L #	88
25) cis-1,2-Dichloroethene	8.89	96	140253	23.35 ug/L	99
26) Bromochloromethane	9.10	128	52659	22.09 ug/L	95
27) Chloroform	9.15	83	207470	23.15 ug/L	98
28) 2,2-Dichloropropane	9.26	77	186677	27.51 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	283772	22.72 ug/L	98
31) Tetrahydrofuran	9.58	72	6632	17.89 ug/L	87
32) 1,2-Dichloroethane	10.00	62	116340	26.91 ug/L	95
33) 1,1,1-Trichloroethane	10.11	97	205948	27.43 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	225445	22.40 ug/L	97
36) 1,1-Dichloropropene	10.35	75	169164	19.92 ug/L	96
37) Carbon Tetrachloride	10.59	117	193774	29.11 ug/L	98
38) Benzene	10.63	78	445194	21.97 ug/L	99
39) Dibromomethane	11.37	93	54521	22.79 ug/L	95
40) 1,2-Dichloropropane	11.41	63	99297	20.57 ug/L #	91

(#) = qualifier out of range (m) = manual integration
09141203.D 081012.M Fri Sep 14 14:33:33 2012

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.46	95	131751	23.20 ug/L	97
42)	Bromodichloromethane	11.53	83	140183	25.23 ug/L	97
43)	2-Chlorovinylethylether	12.07	63	35208	19.30 ug/L	96
44)	cis-1,3-Dichloropropene	12.37	75	155732	24.04 ug/L	94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	66040	22.71 ug/L	98
46)	trans-1,3-Dichloropropene	12.94	75	119679	24.29 ug/L	96
47)	1,1,2-Trichloroethane	13.15	97	68043	24.22 ug/L	95
49)	Toluene	13.40	92	269783	23.41 ug/L	99
51)	1,3-Dichloropropane	13.47	76	113058	21.26 ug/L	100
52)	2-Hexanone	13.66	43	57164	25.71 ug/L	97
53)	Dibromochloromethane	13.83	129	93109	24.15 ug/L	98
54)	1,2-Dibromoethane	14.17	107	71643	22.17 ug/L	99
55)	Tetrachloroethene	14.39	164	111870	21.20 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.20	131	101863	24.09 ug/L	96
57)	Chlorobenzene	15.31	112	284773	23.16 ug/L	99
58)	Ethylbenzene	15.56	91	503066	23.42 ug/L	99
59)	m,p-Xylenes	15.83	106	199813	24.38 ug/L	96
60)	Styrene	16.28	104	256841	23.41 ug/L	98
61)	o-Xylene	16.38	106	179955	23.76 ug/L	98
64)	Bromoform	16.00	173	53303	25.49 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.37	83	72107	22.10 ug/L	95
66)	1,2,3-Trichloropropane	16.58	110	18911	24.05 ug/L	95
67)	trans-1,4-Dichloro-2-buten	16.61	53	16122	20.33 ug/L	92
68)	Isopropylbenzene	16.88	105	485476	26.76 ug/L	98
69)	Bromobenzene	17.23	156	103094	23.32 ug/L	99
70)	n-Propylbenzene	17.49	91	565855	24.57 ug/L	97
71)	2-Chlorotoluene	17.63	91	310944	24.97 ug/L	99
72)	4-Chlorotoluene	17.74	91	304649	25.01 ug/L	97
73)	1,3,5-Trimethylbenzene	17.89	105	369890	26.14 ug/L	99
74)	tert-Butylbenzene	18.29	119	336131	26.60 ug/L	99
75)	1,2,4-Trimethylbenzene	18.44	105	338386	25.28 ug/L	98
76)	sec-Butylbenzene	18.59	105	504237	24.66 ug/L	99
77)	1,3-Dichlorobenzene	18.70	146	197557	24.55 ug/L	96
78)	1,4-Dichlorobenzene	18.79	146	185750	23.55 ug/L	98
79)	p-Isopropyltoluene	18.84	119	390745	25.50 ug/L	98
80)	1,2-Dichlorobenzene	19.26	146	156721	23.92 ug/L	98
81)	n-Butylbenzene	19.38	91	360768	24.55 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.84	75	8610	26.16 ug/L	94
83)	1,2,4-Trichlorobenzene	21.49	180	89509	25.48 ug/L	100
84)	Napthalene	21.81	128	146397	26.05 ug/L	99
85)	Hexachlorobutadiene	21.87	225	80333	33.88 ug/L	96
86)	1,2,3-Trichlorobenzene	22.06	180	73514	25.85 ug/L	100

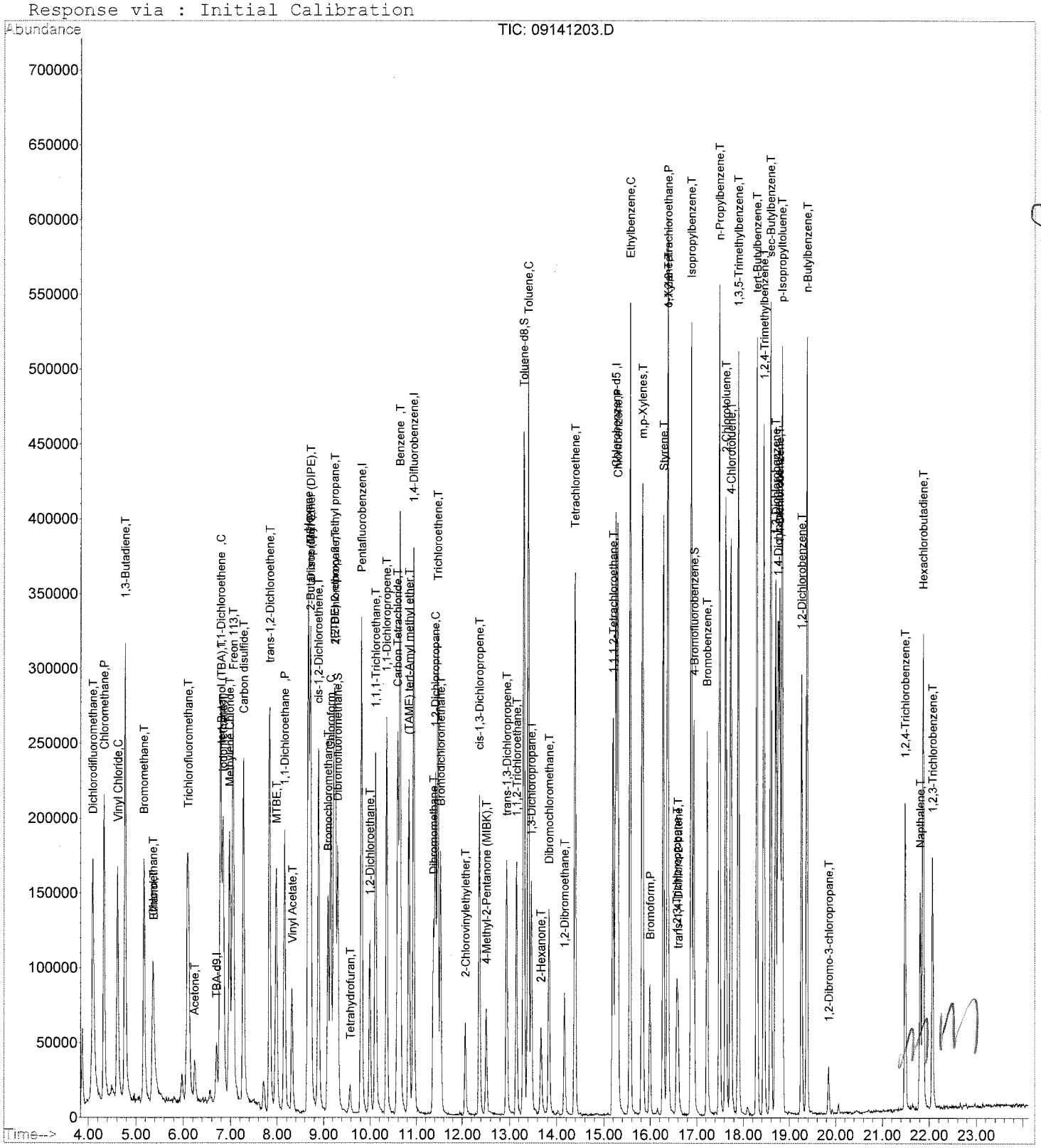
MM

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141203.D Vial: 3
Acq On : 14 Sep 2012 7:23 am Operator: MNM
Sample : 12I0474-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: 081012.RES

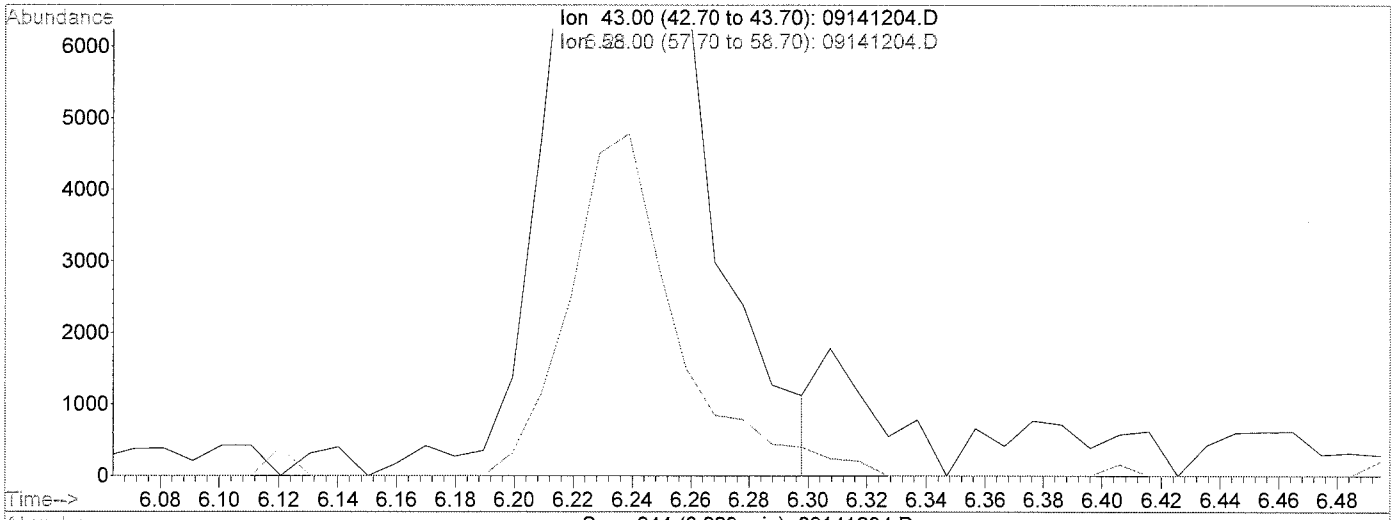
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

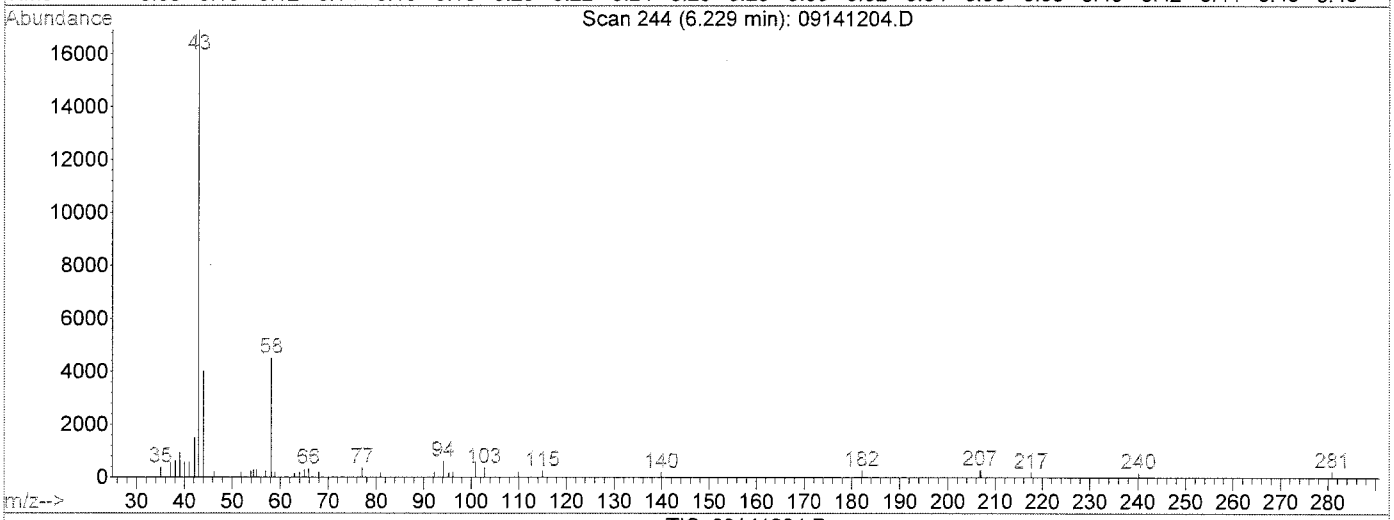


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:33 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141204.D

9/17/12

(12) Acetone (T)

6.23min 40.16ug/L

response 44483

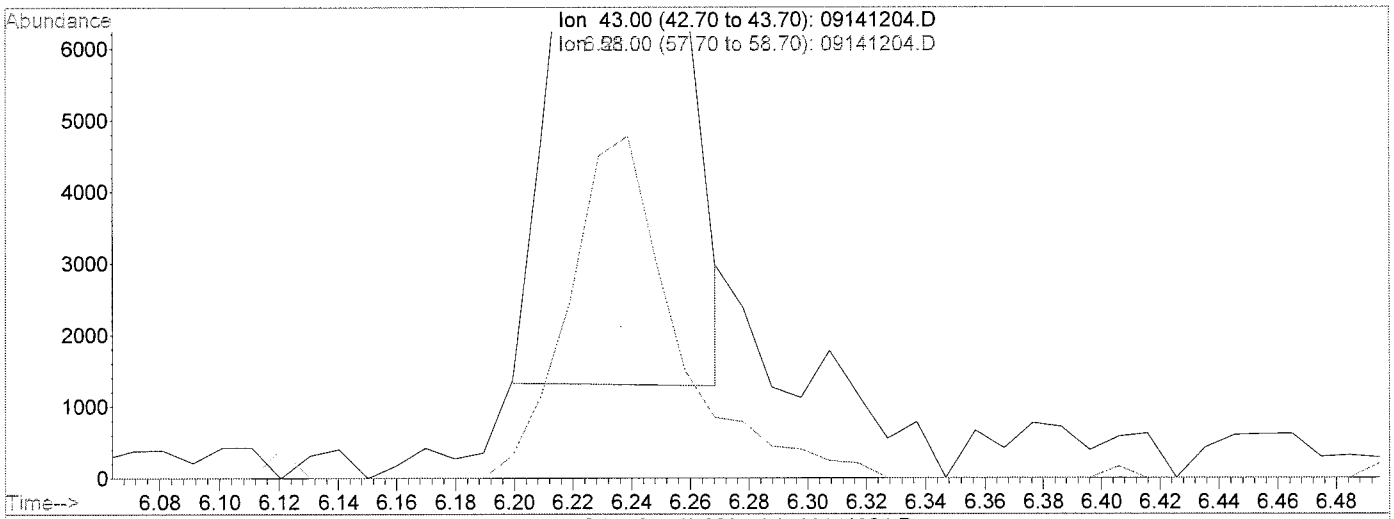
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.41
0.00	0.00	0.00
0.00	0.00	0.00

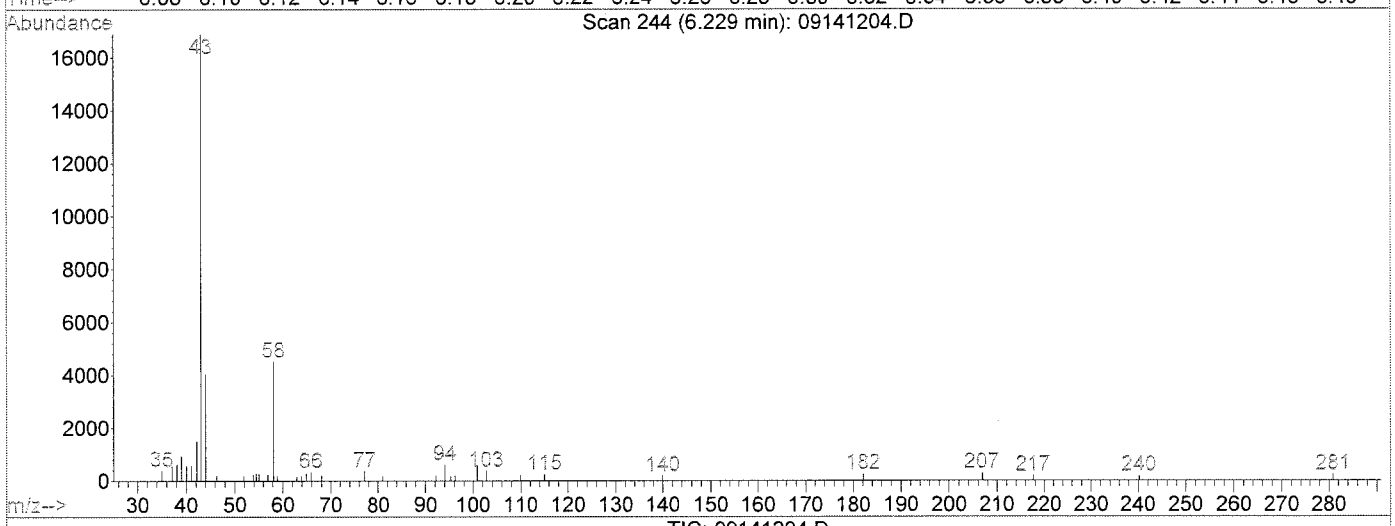
B
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141204.D

(12) Acetone (T)

6.23min 31.36ug/L m

response 34734

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.10
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	73749	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	263076	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	377771	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	279392	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	118242	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	123597	26.86 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 107.44%	
48) Toluene-d8	13.31	98	367093	24.61 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 98.44%	
62) 4-Bromofluorobenzene	16.93	95	112772	26.12 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 104.48%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	73883	1858.21 ug/L #	72
3) tert-Butanol (TBA)	6.81	59	57505	133.30 ug/L	99
5) Dichlorodifluoromethane	4.09	85	302576	31.34 ug/L	100
6) Chloromethane	4.33	50	267229	28.45 ug/L	96
7) Vinyl Chloride	4.62	62	241272	28.06 ug/L	100
8) 1,3-Butadiene	4.77	54	189091	40.67 ug/L	98
9) Bromomethane	5.17	94	155015	29.53 ug/L	98
10) Chloroethane	5.36	64	103658	24.31 ug/L	96
11) Trichlorofluoromethane	6.09	101	271279	35.70 ug/L	99
12) Acetone	6.23	43	34734m	31.36 ug/L	
13) Iodomethane	6.84	142	267888	30.16 ug/L #	90
14) 1,1-Dichloroethene	6.78	96	143553	27.14 ug/L	98
15) Methylene Chloride	6.98	84	111675	23.71 ug/L	98
16) Freon 113	7.06	101	166603	30.41 ug/L	98
17) Carbon disulfide	7.27	76	470477	27.35 ug/L	98
18) trans-1,2-Dichloroethene	7.84	96	139354	22.72 ug/L	99
19) MTBE	7.98	73	225574	26.01 ug/L	97
20) 1,1-Dichloroethane	8.16	63	218689	22.96 ug/L	97
21) Vinyl Acetate	8.31	43	163976	24.29 ug/L	99
22) n-Hexane	8.67	86	32454	21.56 ug/L	90
23) 2-Butanone (MEK)	8.70	72	10261	27.08 ug/L #	43
24) Diisopropyl Ether (DIPE)	8.72	45	356463	22.17 ug/L #	85
25) cis-1,2-Dichloroethene	8.89	96	138327	24.77 ug/L	93
26) Bromochloromethane	9.09	128	55820	25.18 ug/L	95
27) Chloroform	9.15	83	200315	24.04 ug/L #	96
28) 2,2-Dichloropropane	9.26	77	176763	28.02 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	282053	24.30 ug/L	97
31) Tetrahydrofuran	9.57	72	6636	19.26 ug/L	91
32) 1,2-Dichloroethane	10.00	62	111630	27.77 ug/L	95
33) 1,1,1-Trichloroethane	10.11	97	196566	28.17 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	226530	24.21 ug/L	97
36) 1,1-Dichloropropene	10.35	75	162253	20.08 ug/L	97
37) Carbon Tetrachloride	10.59	117	180898	28.56 ug/L	98
38) Benzene	10.64	78	417774	21.67 ug/L	98
39) Dibromomethane	11.36	93	54695	24.03 ug/L	99
40) 1,2-Dichloropropane	11.41	63	96770	21.07 ug/L	92

(#) = qualifier out of range (m) = manual integration
09141204.D 081012.M Fri Sep 14 14:34:10 2012

MNM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.46	95	127158	23.53 ug/L		99
42)	Bromodichloromethane	11.53	83	130469	24.68 ug/L		95
43)	2-Chlorovinylethylether	12.07	63	35833	20.64 ug/L		96
44)	cis-1,3-Dichloropropene	12.37	75	145539	23.61 ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	65284	23.59 ug/L		97
46)	trans-1,3-Dichloropropene	12.94	75	114100	24.34 ug/L		95
47)	1,1,2-Trichloroethane	13.15	97	67651	25.31 ug/L		98
49)	Toluene	13.40	92	255687	23.32 ug/L		97
51)	1,3-Dichloropropane	13.47	76	105724	21.31 ug/L		99
52)	2-Hexanone	13.67	43	56216	27.11 ug/L		97
53)	Dibromochloromethane	13.83	129	97447	27.09 ug/L		92
54)	1,2-Dibromoethane	14.17	107	74438	24.69 ug/L		99
55)	Tetrachloroethene	14.39	164	105875	21.51 ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.20	131	98741	25.04 ug/L		98
57)	Chlorobenzene	15.30	112	267626	23.33 ug/L		99
58)	Ethylbenzene	15.56	91	474955	23.71 ug/L		100
59)	m,p-Xylenes	15.83	106	185738	24.30 ug/L		99
60)	Styrene	16.28	104	246763	24.11 ug/L		97
61)	o-Xylene	16.38	106	173486	24.56 ug/L		97
64)	Bromoform	16.00	173	55014	27.03 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.37	83	74636	23.50 ug/L		98
66)	1,2,3-Trichloropropane	16.57	110	21642	28.27 ug/L	#	91
67)	trans-1,4-Dichloro-2-buten	16.61	53	17699	22.80 ug/L		97
68)	Isopropylbenzene	16.88	105	472854	26.78 ug/L		99
69)	Bromobenzene	17.23	156	101278	23.54 ug/L		97
70)	n-Propylbenzene	17.49	91	549481	24.51 ug/L		98
71)	2-Chlorotoluene	17.63	91	297548	24.55 ug/L		98
72)	4-Chlorotoluene	17.74	91	289660	24.44 ug/L		100
73)	1,3,5-Trimethylbenzene	17.89	105	354347	25.73 ug/L		98
74)	tert-Butylbenzene	18.29	119	312438	25.40 ug/L		97
75)	1,2,4-Trimethylbenzene	18.45	105	328844	25.24 ug/L		99
76)	sec-Butylbenzene	18.59	105	496652	24.95 ug/L		99
77)	1,3-Dichlorobenzene	18.70	146	183512	23.43 ug/L		95
78)	1,4-Dichlorobenzene	18.79	146	177148	23.07 ug/L		98
79)	p-Isopropyltoluene	18.84	119	378636	25.39 ug/L		98
80)	1,2-Dichlorobenzene	19.26	146	153108	24.01 ug/L		97
81)	n-Butylbenzene	19.38	91	341424	23.87 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.84	75	9329	29.24 ug/L		90
83)	1,2,4-Trichlorobenzene	21.48	180	85897	25.13 ug/L		97
84)	Napthalene	21.81	128	145835	26.66 ug/L		98
85)	Hexachlorobutadiene	21.87	225	78848	34.19 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	71185	25.71 ug/L		98

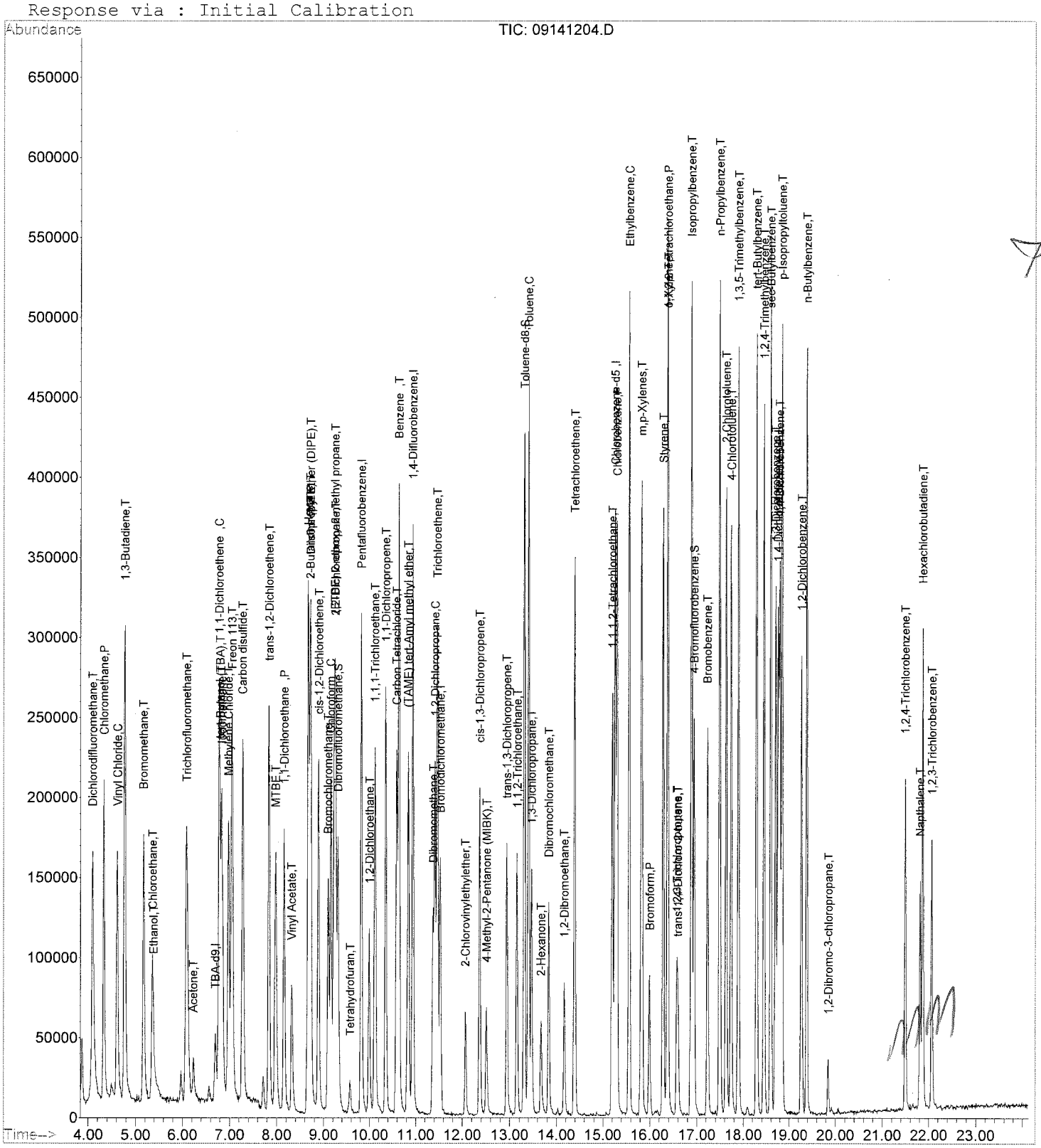
MM

(#) = qualifier out of range (m) = manual integration
09141204.D 081012.M Fri Sep 14 14:34:11 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141204.D Vial: 4
Acq On : 14 Sep 2012 7:55 am Operator: MNM
Sample : 12I0474-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141205.D Vial: 5
Acq On : 14 Sep 2012 8:28 am Operator: MNM
Sample : 12I0474-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	59852	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	277534	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	389725	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	267239	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	102024	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	126710	26.10 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 104.40%	
48) Toluene-d8	13.30	98	368943	23.97 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 95.88%	
62) 4-Bromofluorobenzene	16.93	95	102976	24.94 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 99.76%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	66187	2051.16 ug/L #	58
3) tert-Butanol (TBA)	6.84	59	98	0.28 ug/L #	1
8) 1,3-Butadiene	4.76	54	839	0.17 ug/L #	60
9) Bromomethane	5.10	94	1396	0.25 ug/L #	19
12) Acetone	6.26	43	5687	4.87 ug/L #	72
15) Methylene Chloride	6.97	84	820	0.17 ug/L #	66
23) 2-Butanone (MEK)	8.63	72	141	0.35 ug/L #	1
31) Tetrahydrofuran	9.65	72	135	0.37 ug/L #	32
34) (TAME) tert-Amyl methyl et	10.93	73	3487	0.35 ug/L #	27
51) 1,3-Dichloropropane	13.31	76	4157	0.88 ug/L #	88
67) trans-1,4-Dichloro-2-buten	16.57	53	111	1.18 ug/L #	62
83) 1,2,4-Trichlorobenzene	21.50	180	516	0.17 ug/L #	82
84) Napthalene	21.83	128	1305	0.28 ug/L #	93
85) Hexachlorobutadiene	21.87	225	108	Below Cal #	1

WRT

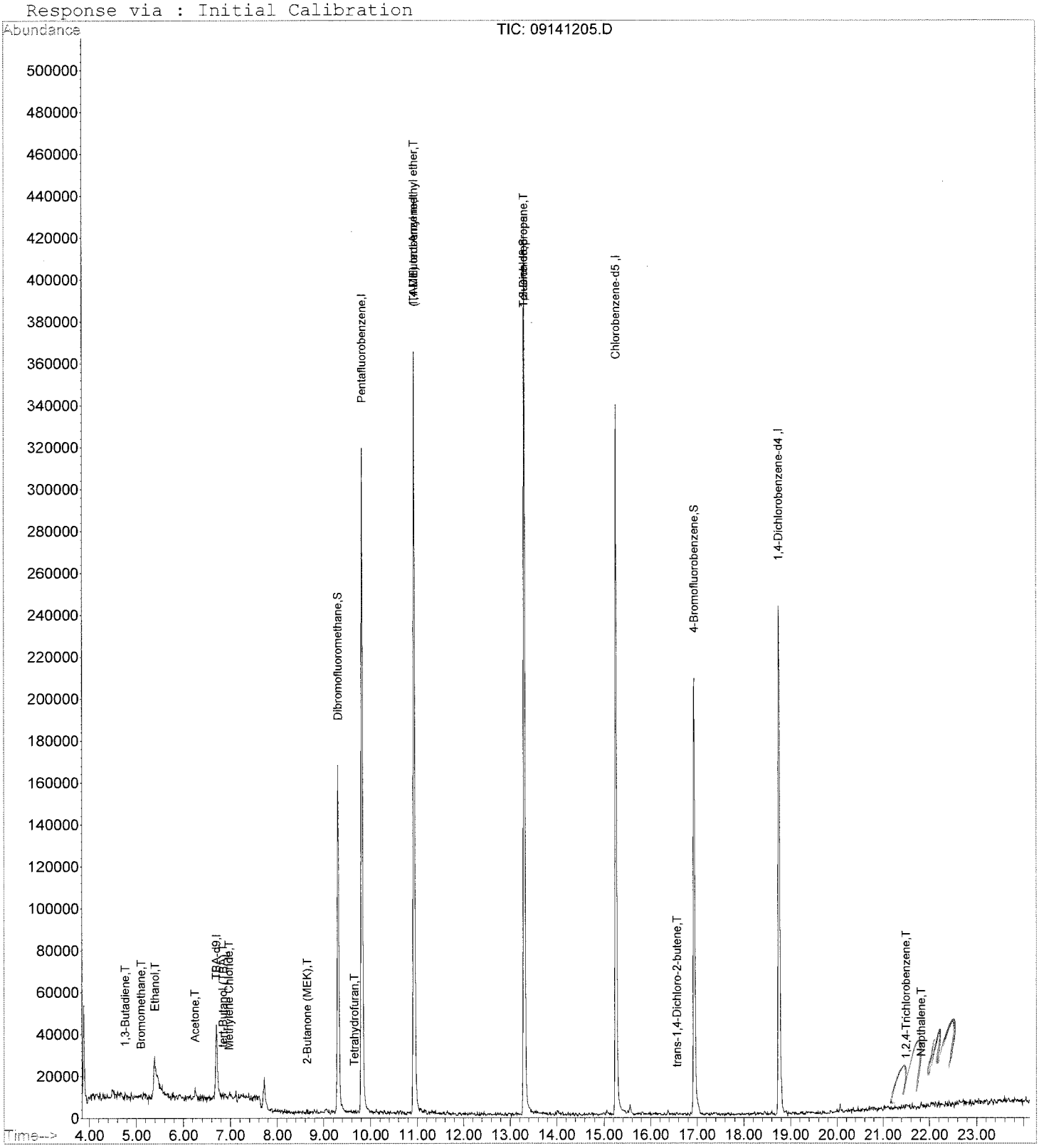
MM 9/17/12

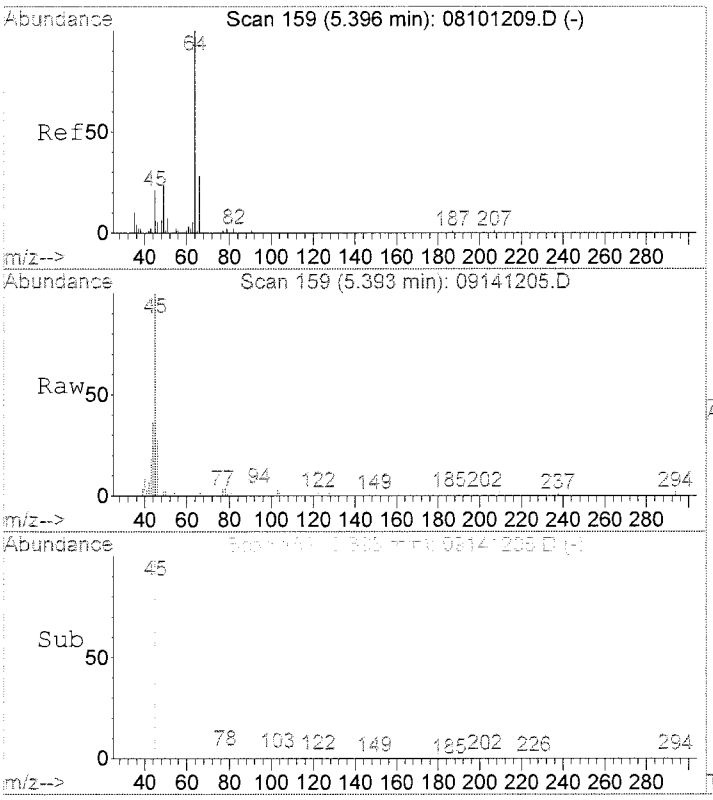
(#) = qualifier out of range (m) = manual integration
09141205.D 081012.M Fri Sep 14 14:34:34 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141205.D Vial: 5
Acq On : 14 Sep 2012 8:28 am Operator: MNM
Sample : 12I0474-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

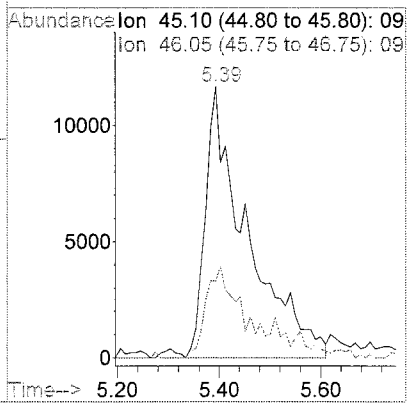


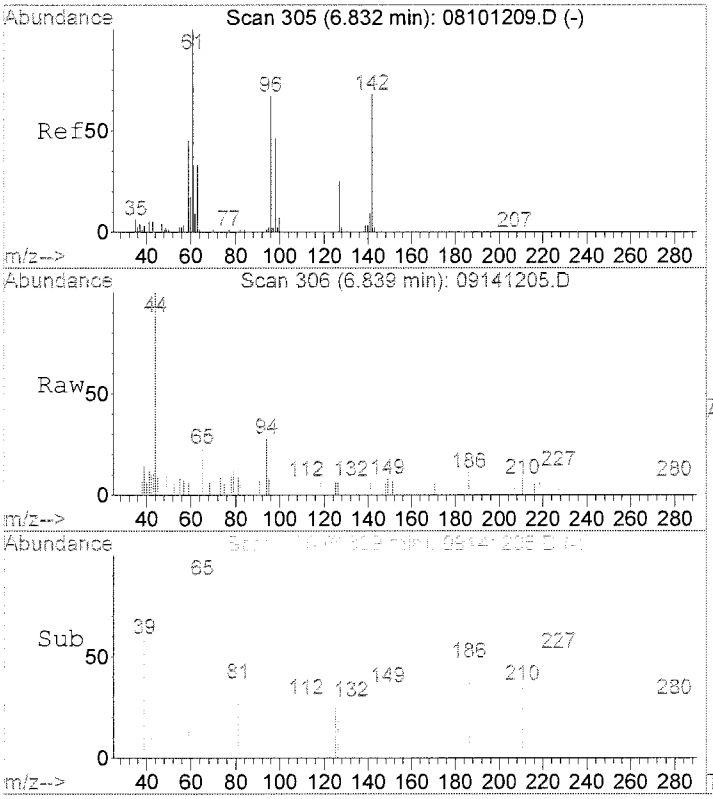


#2
Ethanol
Concen: 2051.16 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 45 Resp: 66187

Ion	Ratio	Lower	Upper
45	100		
46	28.3	39.9	79.9#

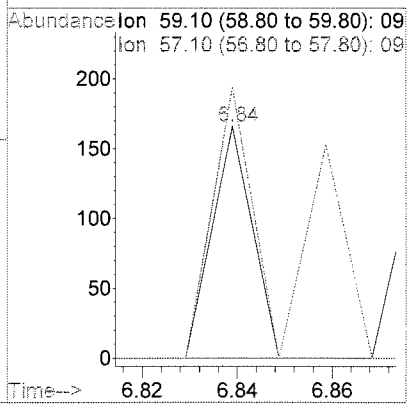


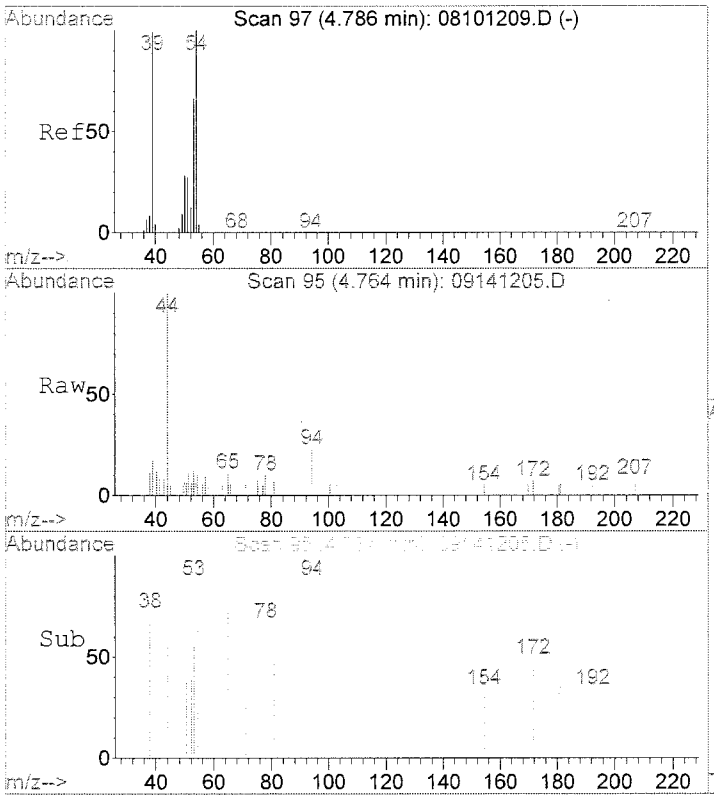


#3
tert-Butanol (TBA)
Concen: 0.28 ug/L
RT: 6.84 min Scan# 306
Delta R.T. 0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 59 Resp: 98

Ion	Ratio	Lower	Upper
59	100		
57	209.2	6.4	9.6#

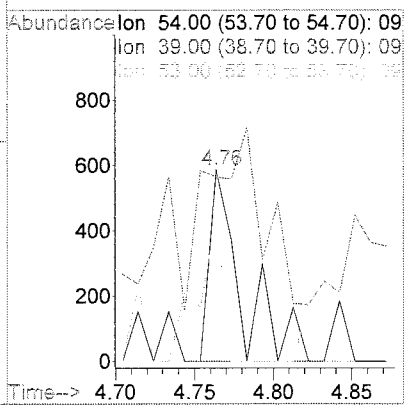


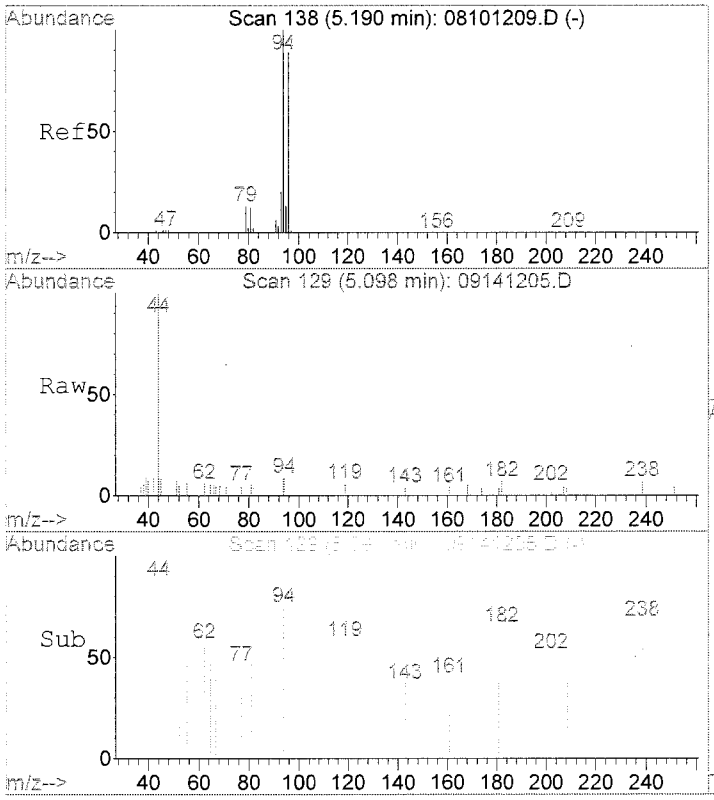


#8
1,3-Butadiene
Concen: 0.17 ug/L
RT: 4.76 min Scan# 95
Delta R.T. -0.02 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 54 Resp: 839

Ion	Ratio	Lower	Upper
54	100		
39	166.6	86.0	129.0#
53	57.9	56.2	84.4

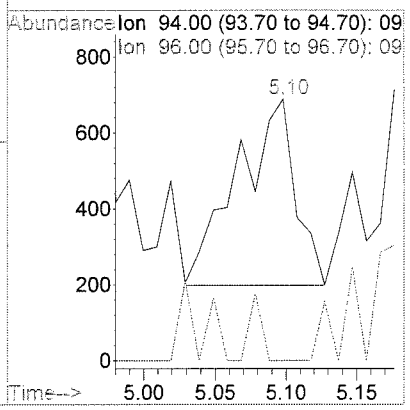


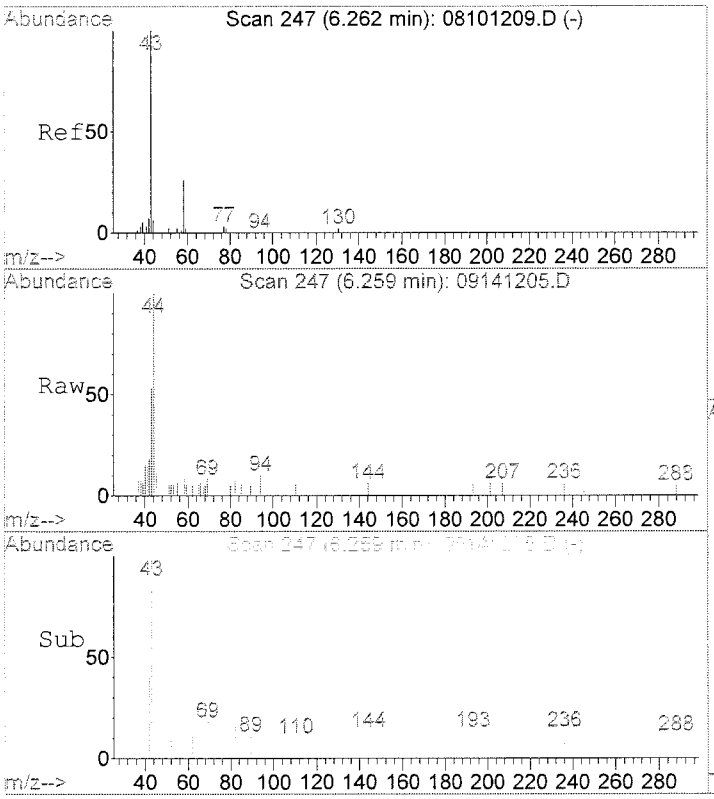


#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.10 min Scan# 129
Delta R.T. -0.09 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 94 Resp: 1396

Ion	Ratio	Lower	Upper
94	100		
96	15.9	75.8	113.6#

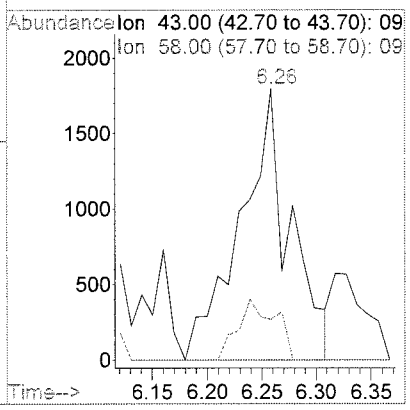


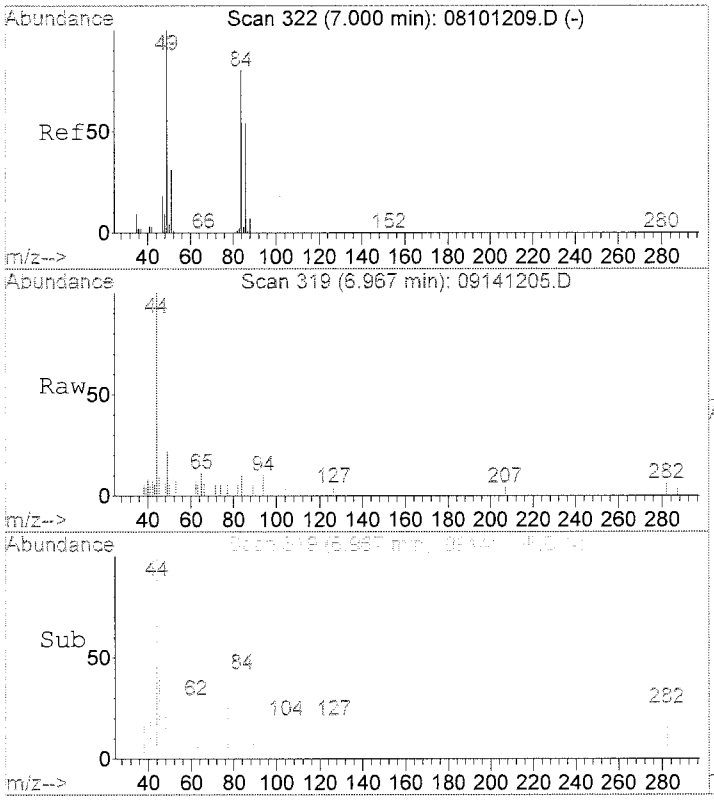


#12
Acetone
Concen: 4.87 ug/L
RT: 6.26 min Scan# 247
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 43 Resp: 5687

Ion	Ratio	Lower	Upper
43	100		
58	17.0	25.9	38.9#

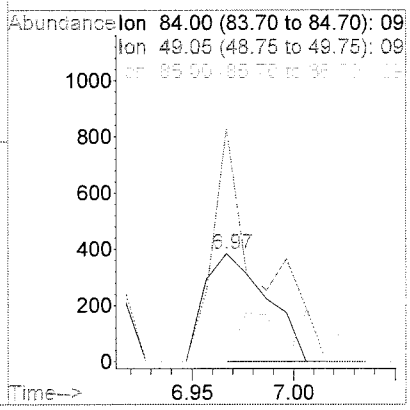


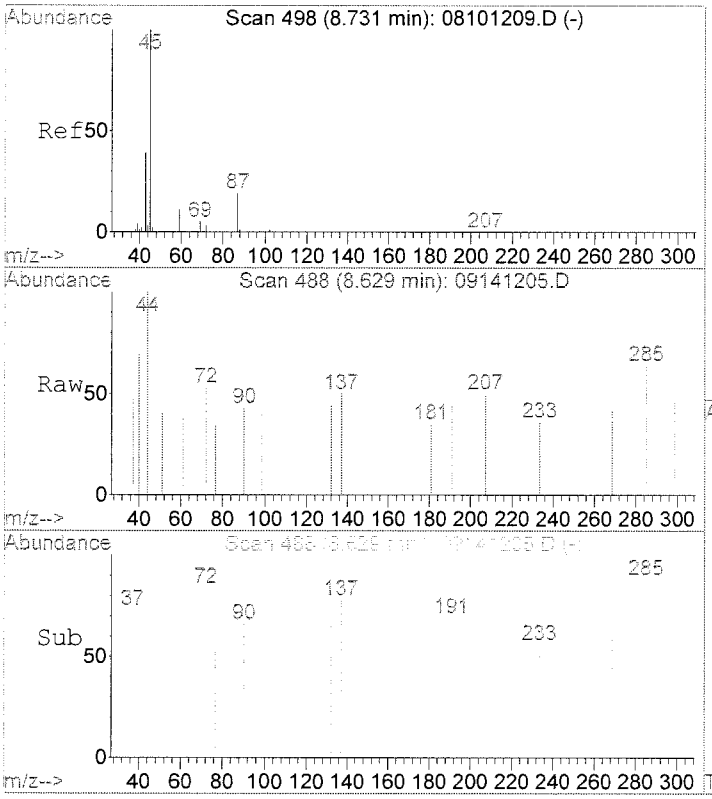


#15
Methylene Chloride
Concen: 0.17 ug/L
RT: 6.97 min Scan# 319
Delta R.T. -0.03 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 84 Resp: 820

Ion	Ratio	Lower	Upper
84	100		
49	159.4	103.4	155.0#
86	24.5	52.0	78.0#

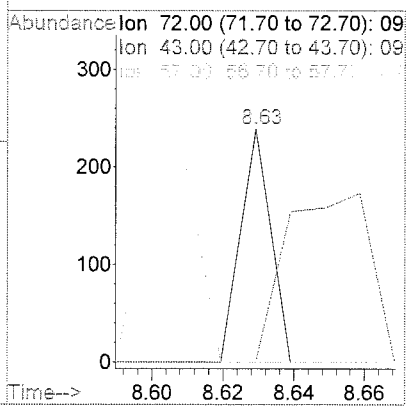




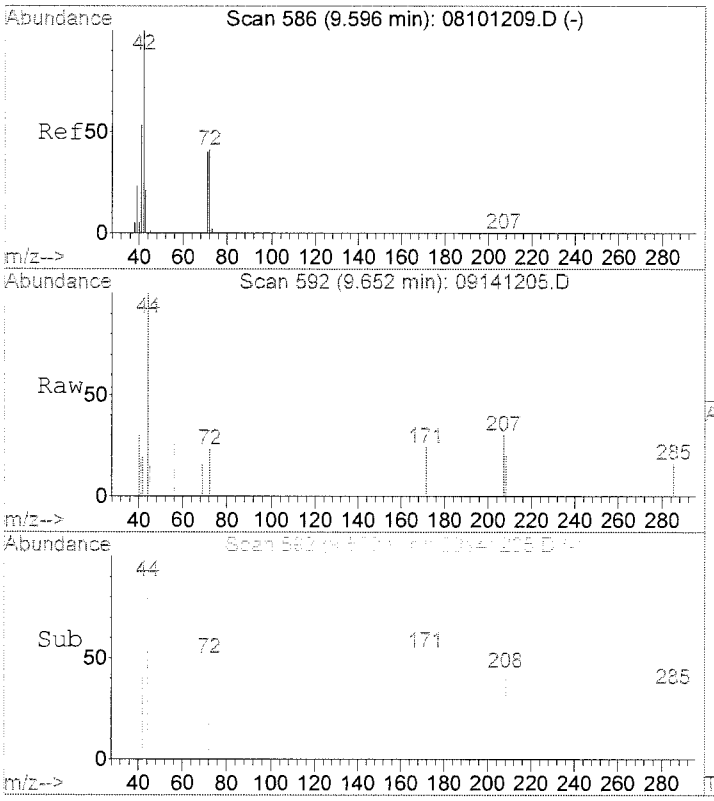
#23
2-Butanone (MEK)
Concen: 0.35 ug/L
RT: 8.63 min Scan# 488
Delta R.T. -0.10 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 72 Resp: 141

Ion	Ratio	Lower	Upper
72	100		
43	202.8	1366.5	2049.7#
57	157.4	0.0	0.0#



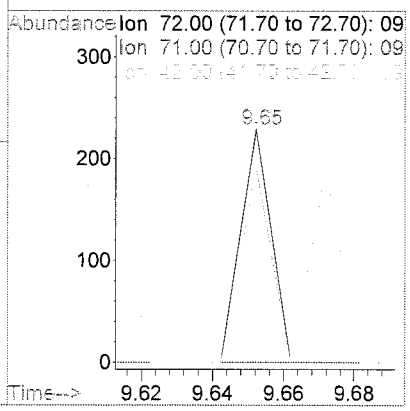
9



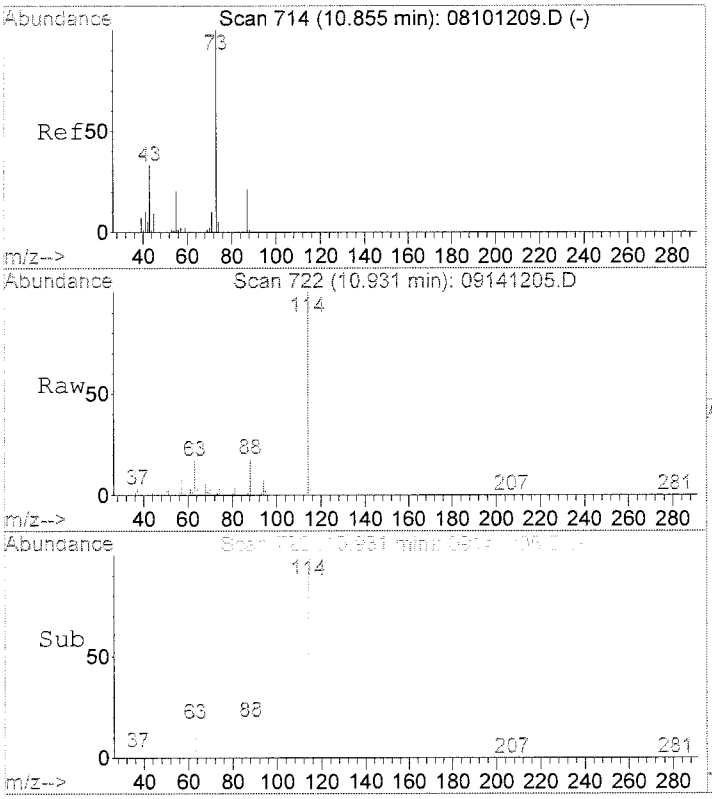
#31
Tetrahydrofuran
Concen: 0.37 ug/L
RT: 9.65 min Scan# 592
Delta R.T. 0.06 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 72 Resp: 135

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	166.7	217.1	325.7#



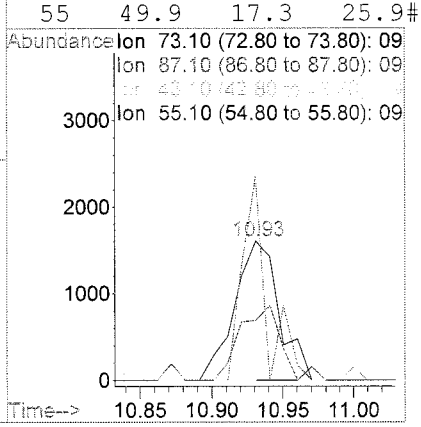
MM



#34
(TAME) tert-Amyl methyl ether
Concen: 0.35 ug/L
RT: 10.93 min Scan# 722
Delta R.T. 0.08 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 73 Resp: 3487

Ion	Ratio	Lower	Upper
73	100		
87	79.9	16.4	24.6#
43	6.5	27.0	40.4#
55	49.9	17.3	25.9#



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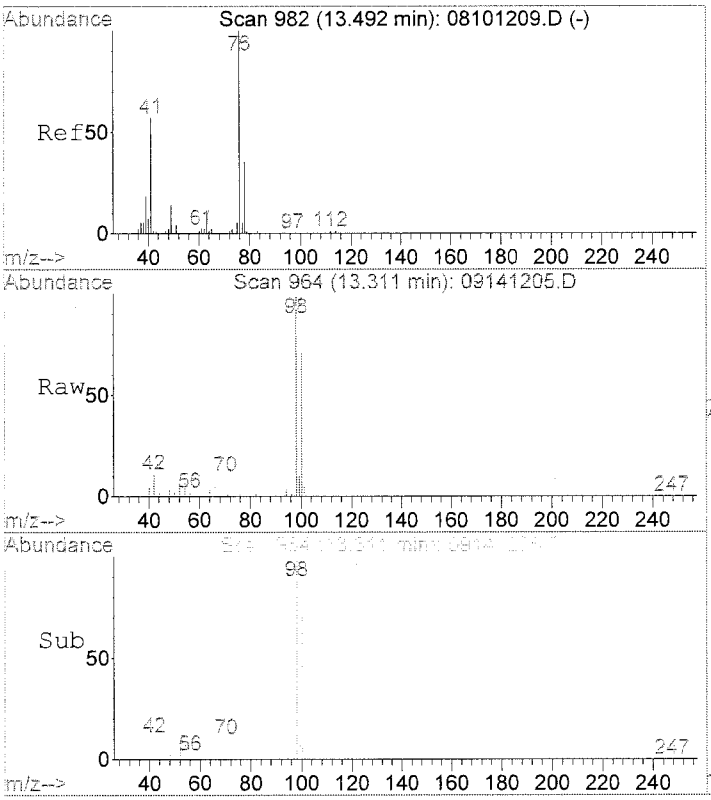
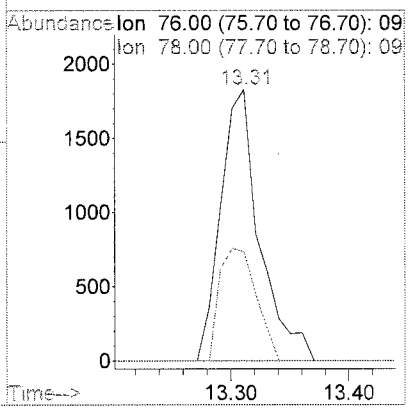


#51
1,3-Dichloropropane
Concen: 0.88 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

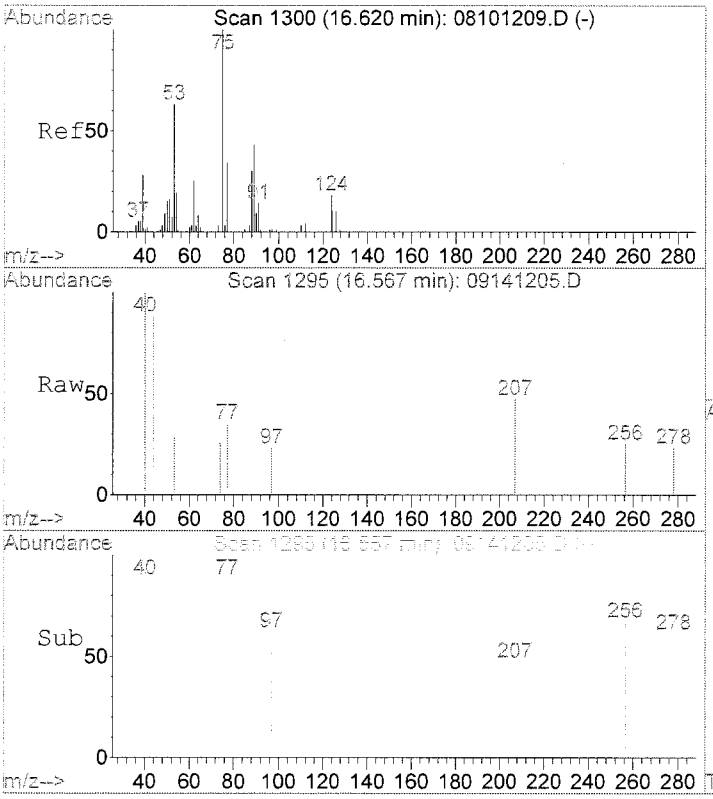
Tgt Ion: 76 Resp: 4157

Ion	Ratio	Lower	Upper
76	100		
78	39.4	26.1	39.1#

WRT



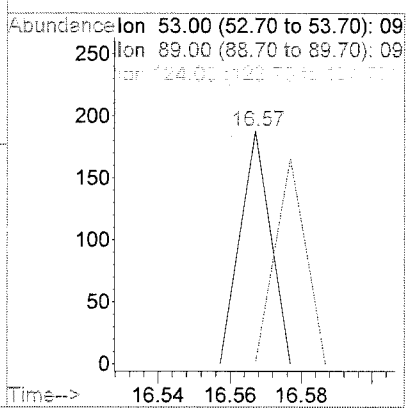
MM

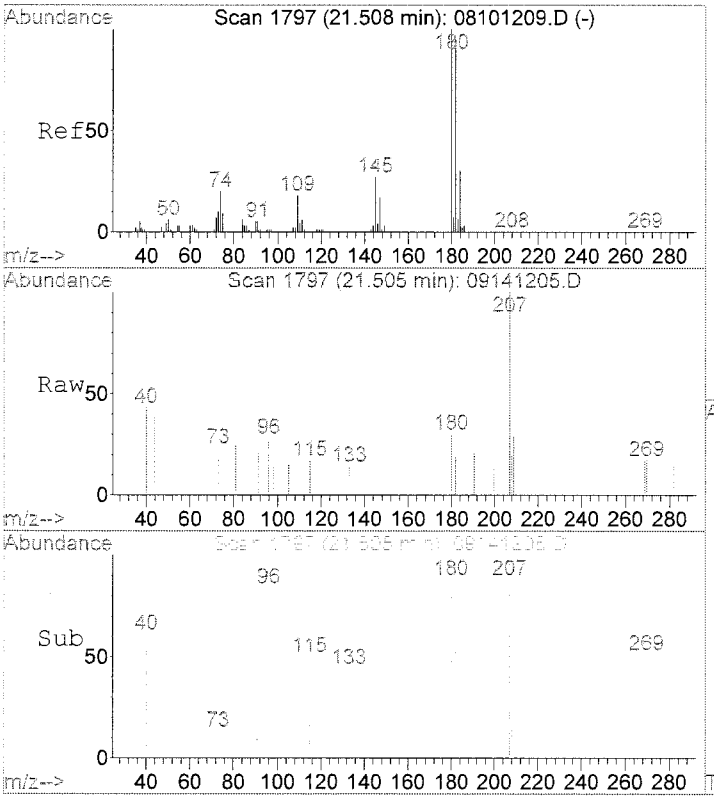


#67
trans-1,4-Dichloro-2-butene
Concen: 1.18 ug/L
RT: 16.57 min Scan# 1295
Delta R.T. -0.05 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion: 53 Resp: 111

Ion	Ratio	Lower	Upper
53	100		
89	88.3	50.5	75.7#
124	0.0	21.8	32.8#

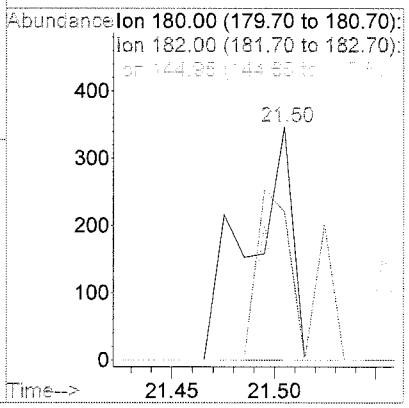


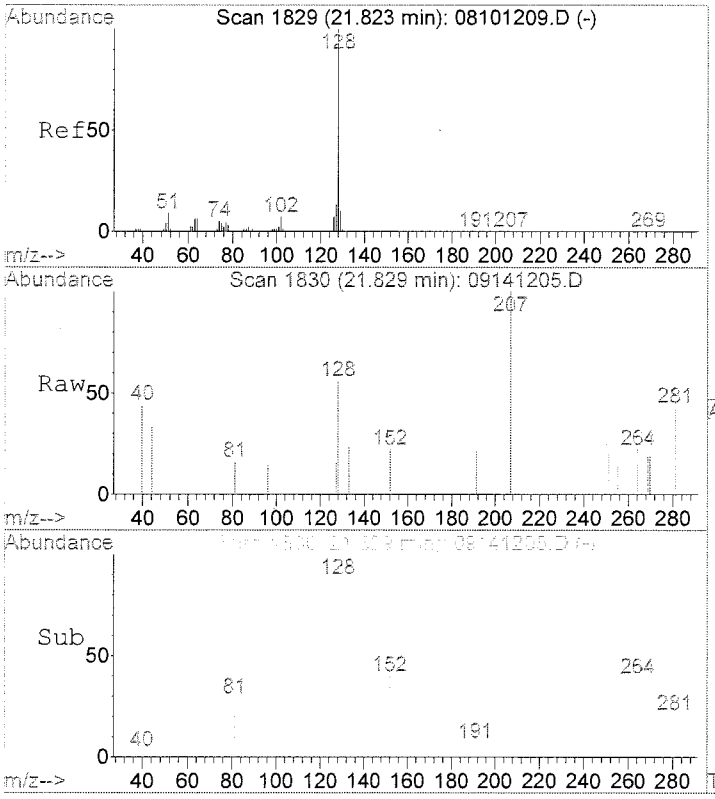


#83
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:180 Resp: 516

Ion	Ratio	Lower	Upper
180	100		
182	77.5	77.9	116.9#
145	23.1	22.8	34.2

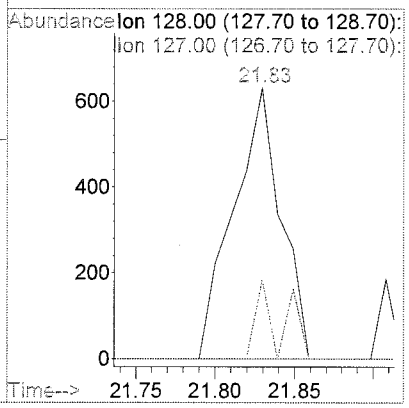




#84
Napthalene
Concen: 0.28 ug/L
RT: 21.83 min Scan# 1830
Delta R.T. 0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:128 Resp: 1305

Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.2	15.4#



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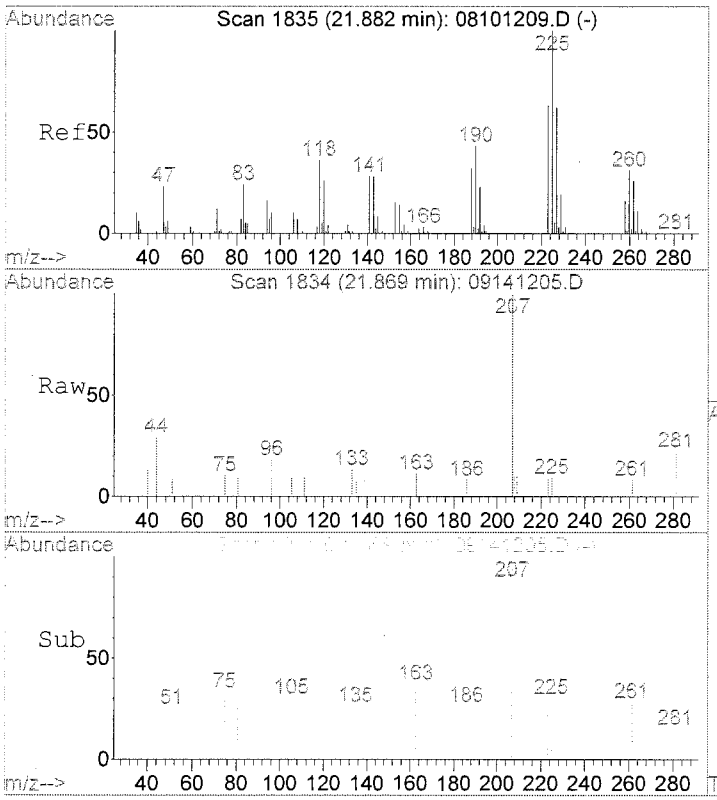
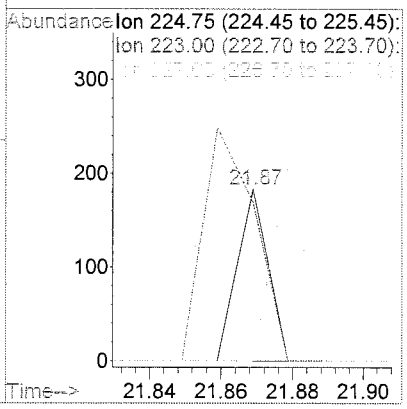


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.87 min Scan# 1834
Delta R.T. -0.01 min
Lab File: 09141205.D
Acq: 14 Sep 2012 8:28 am

Tgt Ion:225 Resp: 108

Ion	Ratio	Lower	Upper
225	100		
223	228.7	47.8	71.8#
227	115.7	50.6	75.8#



MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141206.D Vial: 6
Acq On : 14 Sep 2012 9:01 am Operator: MNM
Sample : PVI0635-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Source

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	50804	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	268269	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	388581	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	273715	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	107678	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	125510	26.75 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 107.00%	
48) Toluene-d8	13.30	98	370933	24.17 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 96.68%	
62) 4-Bromofluorobenzene	16.93	95	105982	25.06 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 100.24%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	70146	2561.01 ug/L #	50
3) tert-Butanol (TBA)	6.80	59	130	0.44 ug/L #	1
9) Bromomethane	5.30	94	1140	0.21 ug/L #	16
12) Acetone	6.25	43	2974	2.63 ug/L #	49
27) Chloroform	9.15	83	4475	0.53 ug/L	94
31) Tetrahydrofuran	9.67	72	129	0.37 ug/L #	63
34) (TAME) tert-Amyl methyl et	10.94	73	3953	0.41 ug/L #	39
41) Trichloroethene	11.46	95	8095	1.46 ug/L	97
55) Tetrachloroethene	14.39	164	4571	0.95 ug/L	93
66) 1,2,3-Trichloropropane	16.60	110	109	0.16 ug/L #	29
67) trans-1,4-Dichloro-2-buten	16.61	53	97	1.15 ug/L #	27
85) Hexachlorobutadiene	21.79	225	92	Below Cal #	32

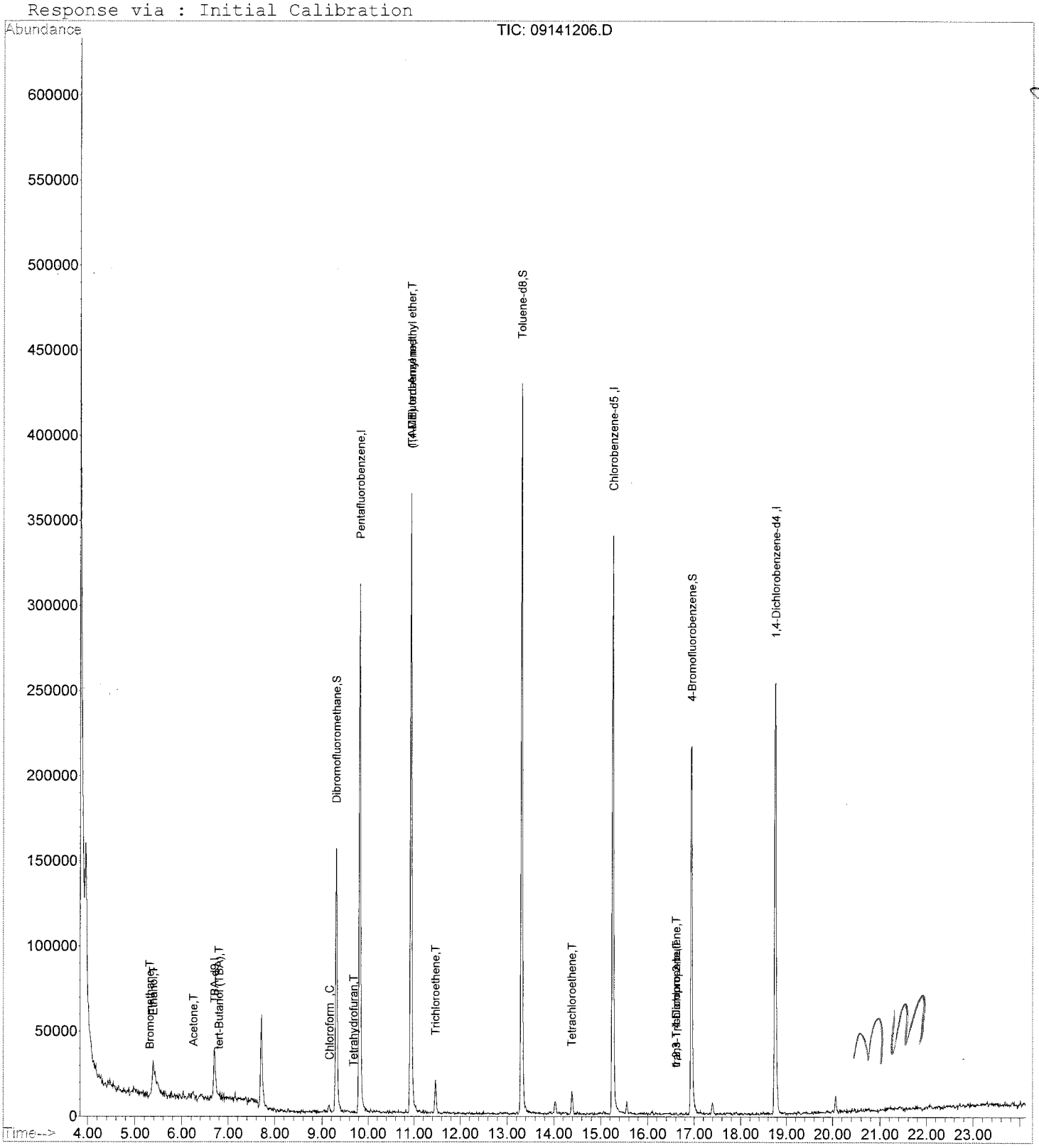
MM 9/17/12

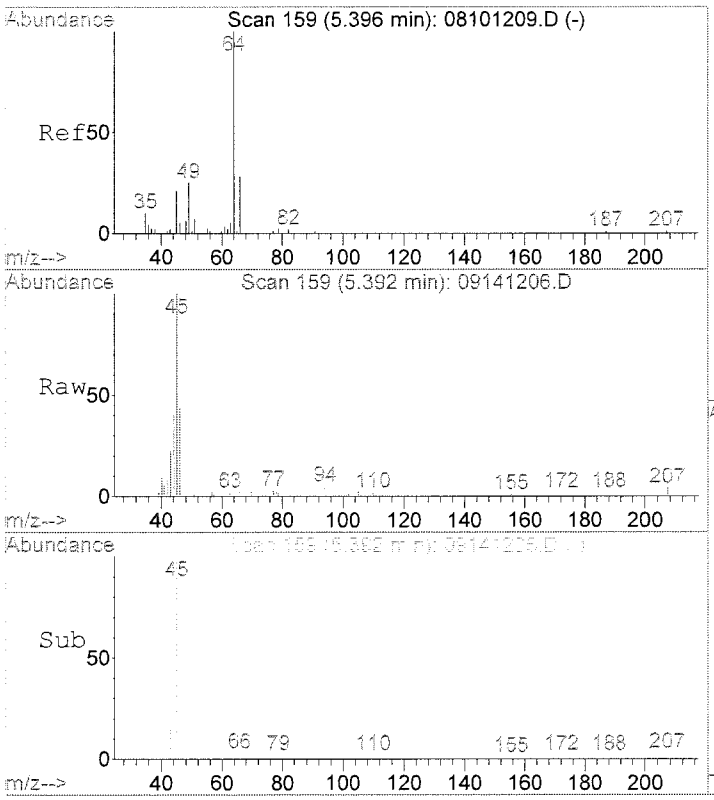
(#) = qualifier out of range (m) = manual integration
09141206.D 081012.M Fri Sep 14 14:35:15 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141206.D Vial: 6
Acq On : 14 Sep 2012 9:01 am Operator: MNM
Sample : PVI0635-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:34 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

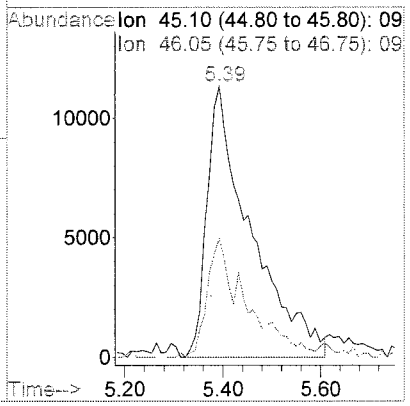


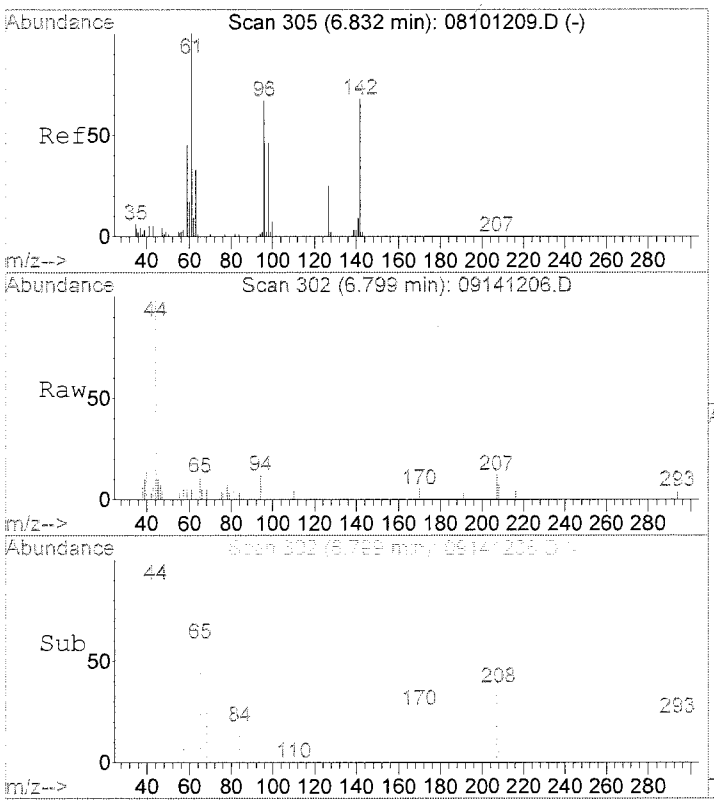


#2
Ethanol
Concen: 2561.01 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 45 Resp: 70146

Ion	Ratio	Lower	Upper
45	100		
46	21.7	39.9	79.9#

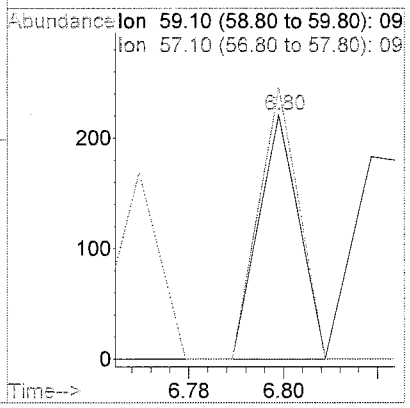


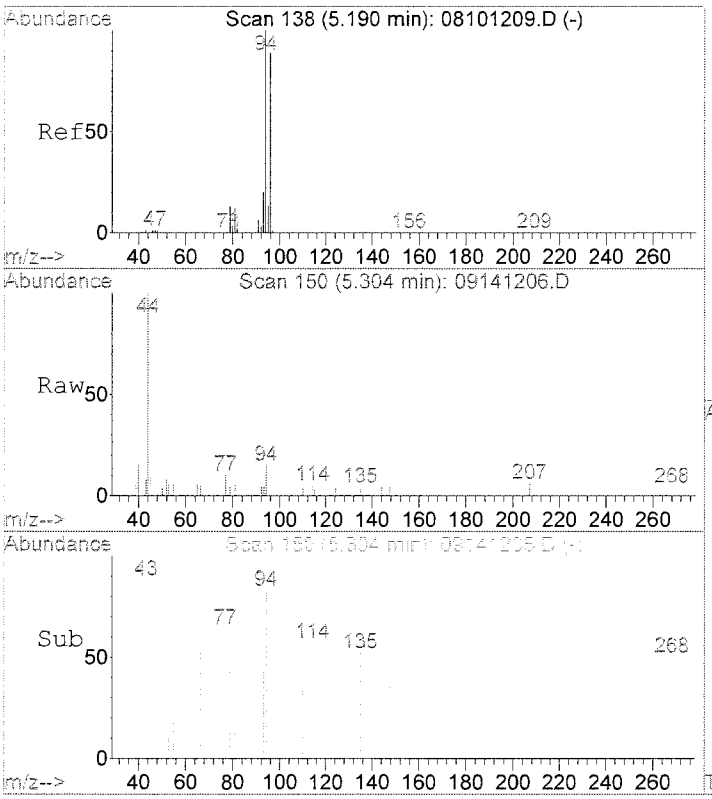


#3
tert-Butanol (TBA)
Concen: 0.44 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 59 Resp: 130

Ion	Ratio	Lower	Upper
59	100		
57	111.5	6.4	9.6#

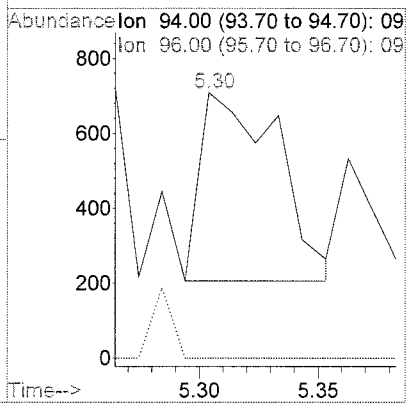


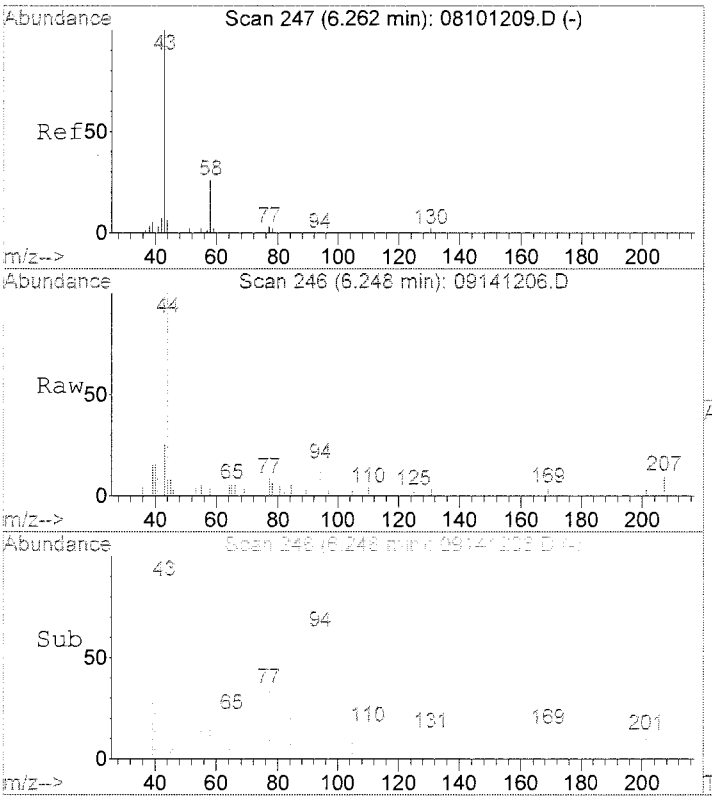


#9
Bromomethane
Concen: 0.21 ug/L
RT: 5.30 min Scan# 150
Delta R.T. 0.11 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 94 Resp: 1140

Ion	Ratio	Lower	Upper
94	100		
96	13.4	75.8	113.6#

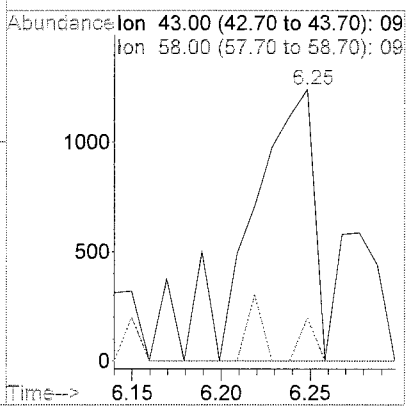


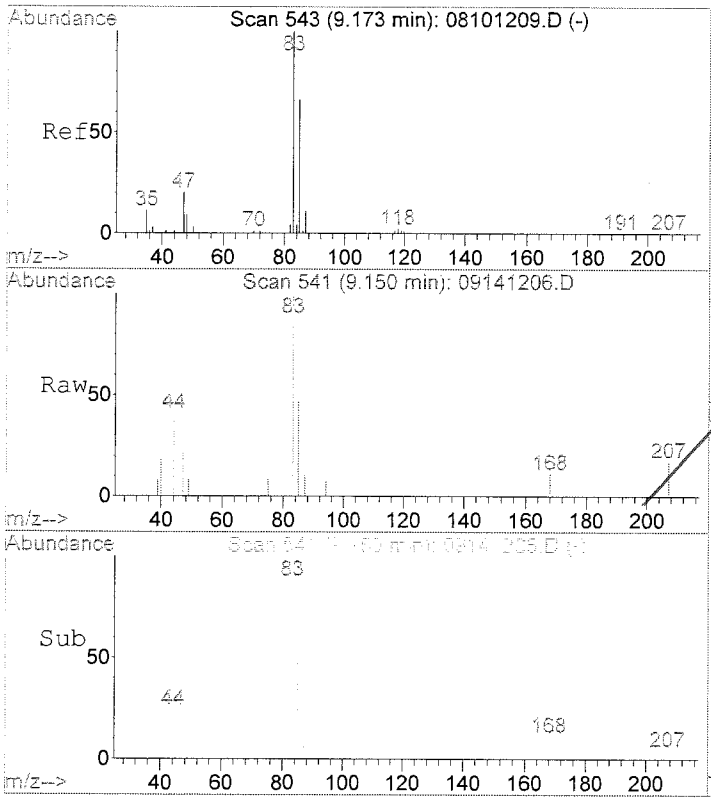


#12
Acetone
Concen: 2.63 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 43 Resp: 2974

Ion	Ratio	Lower	Upper
43	100		
58	3.9	25.9	38.9#

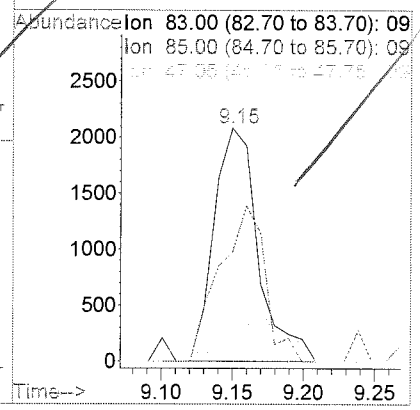


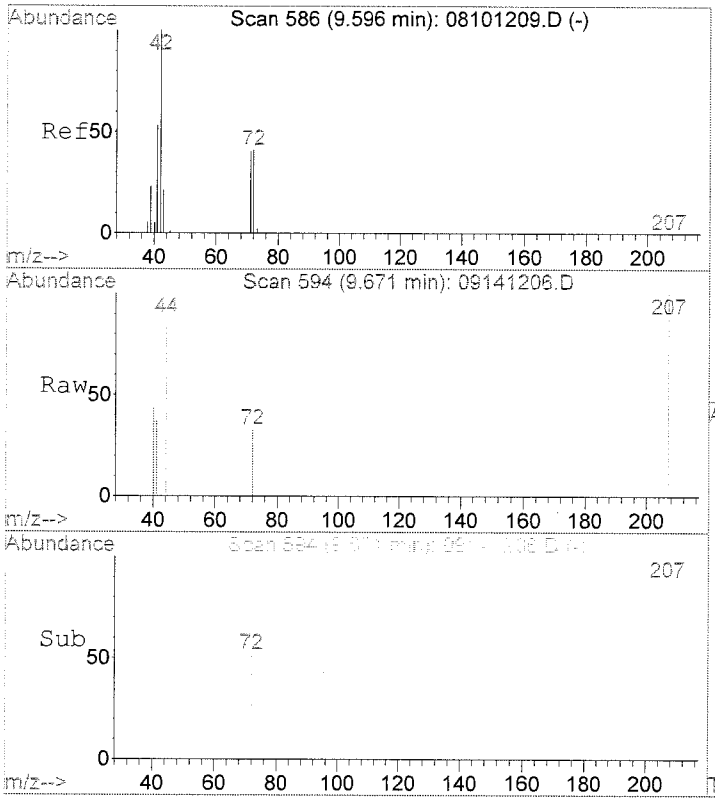


#27
Chloroform
Concen: 0.53 ug/L
RT: 9.15 min Scan# 541
Delta R.T. -0.02 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 83 Resp: 4475

Ion	Ratio	Lower	Upper
83	100		
85	68.7	51.6	77.4
47	27.4	18.9	28.3

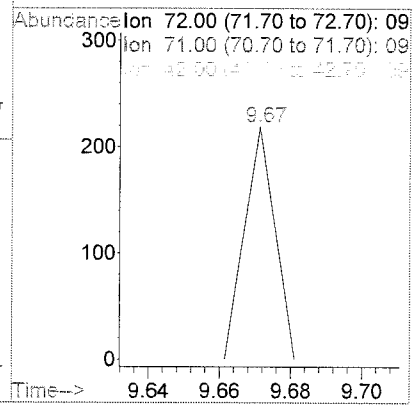


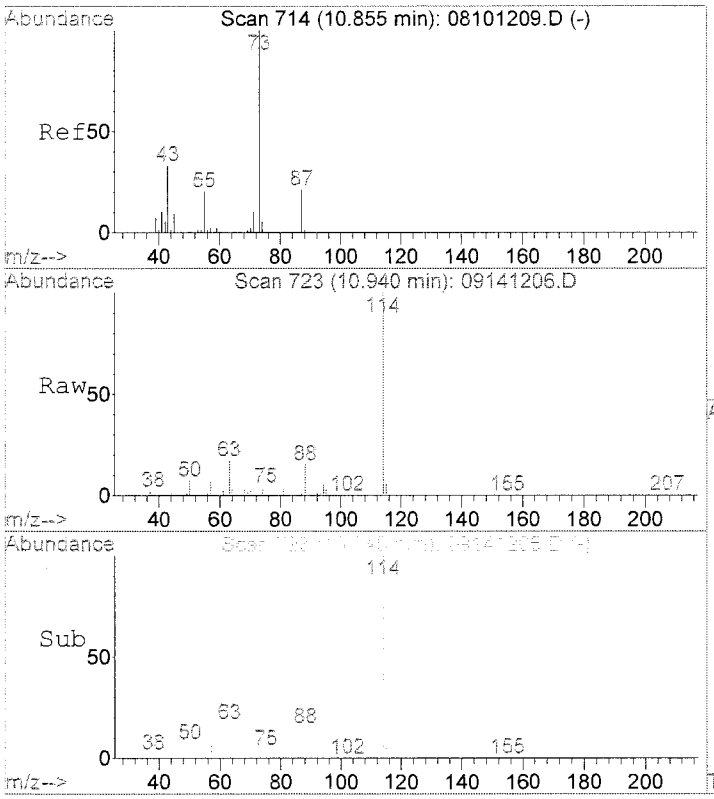


#31
Tetrahydrofuran
Concen: 0.37 ug/L
RT: 9.67 min Scan# 594
Delta R.T. 0.07 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 72 Resp: 129

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	246.5	217.1	325.7

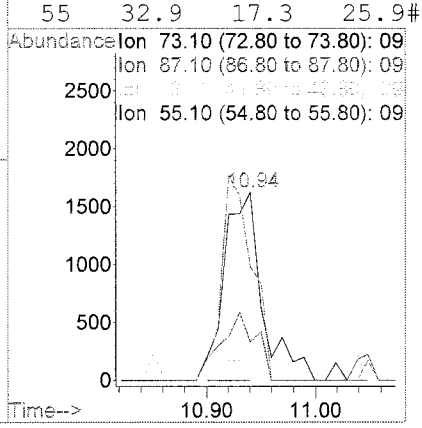


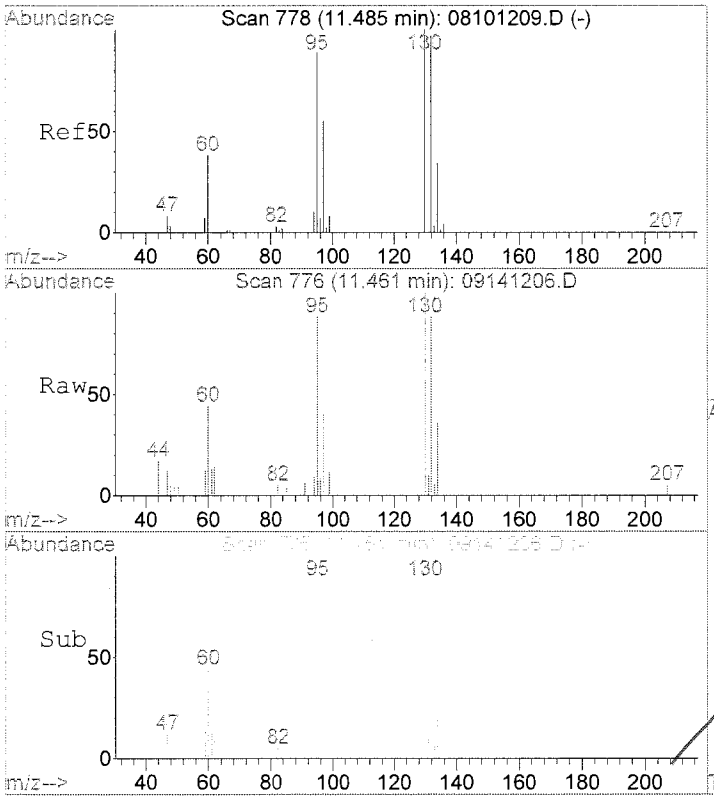


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 73 Resp: 3953

Ion	Ratio	Lower	Upper
73	100		
87	85.7	16.4	24.6#
43	13.3	27.0	40.4#
55	32.9	17.3	25.9#

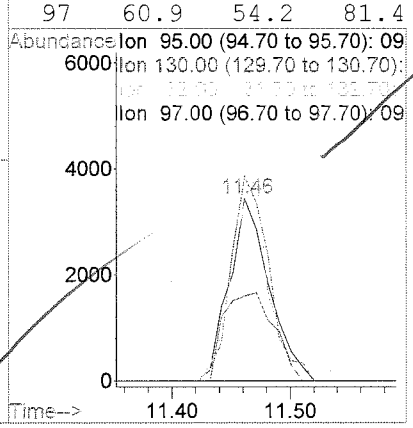


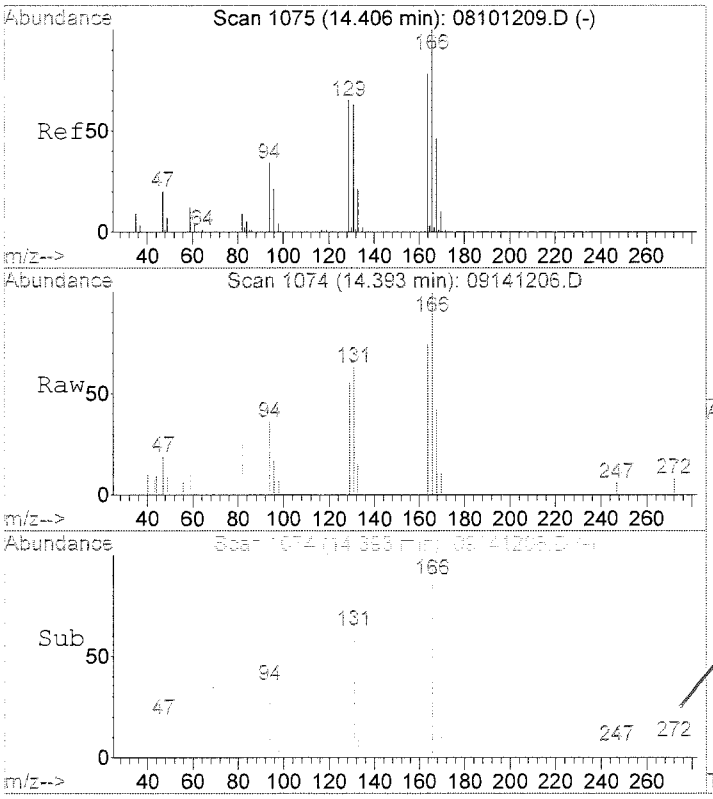


#41
Trichloroethene
Concen: 1.46 ug/L
RT: 11.46 min Scan# 776
Delta R.T. -0.02 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 95 Resp: 8095

Ion	Ratio	Lower	Upper
95	100		
130	106.5	87.3	130.9
132	105.1	84.2	126.4
97	60.9	54.2	81.4

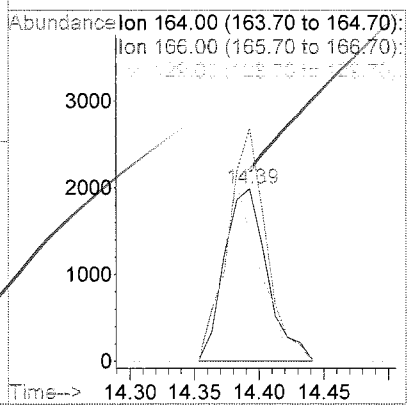


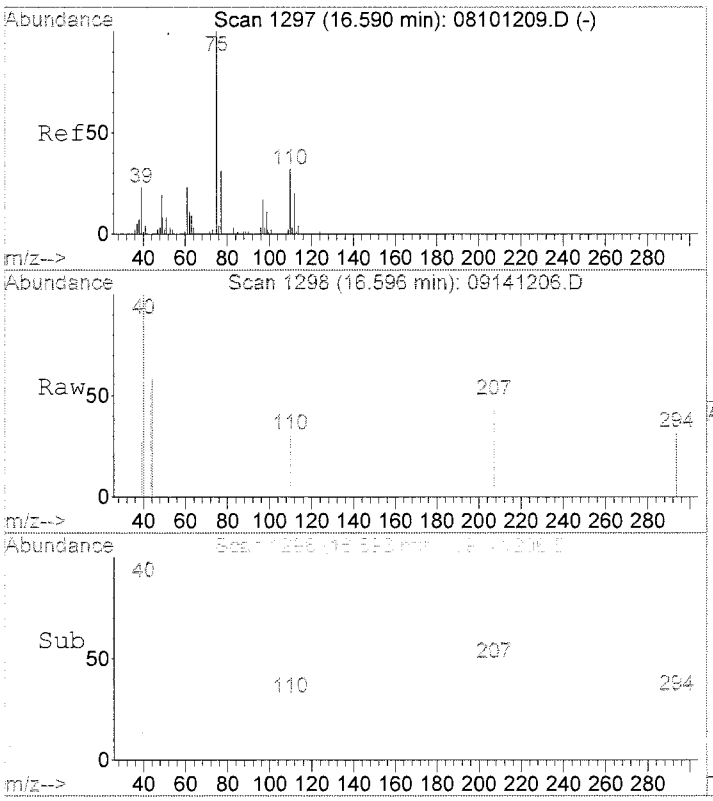


#55
Tetrachloroethene
Concen: 0.95 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:164 Resp: 4571

Ion	Ratio	Lower	Upper
164	100		
166	120.7	102.1	153.1
129	90.7	66.5	99.7

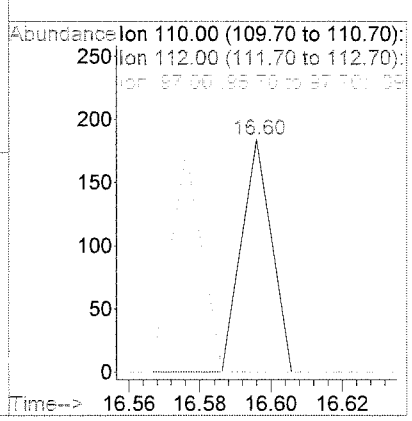




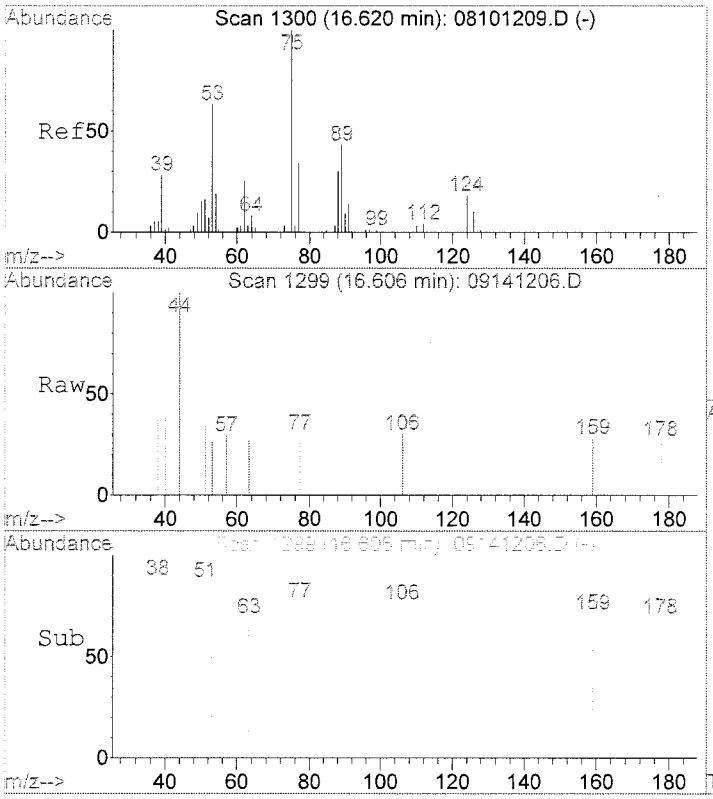
#66
1,2,3-Trichloropropane
Concen: 0.16 ug/L
RT: 16.60 min Scan# 1298
Delta R.T. 0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:110 Resp: 109

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	94.5	42.2	63.2#



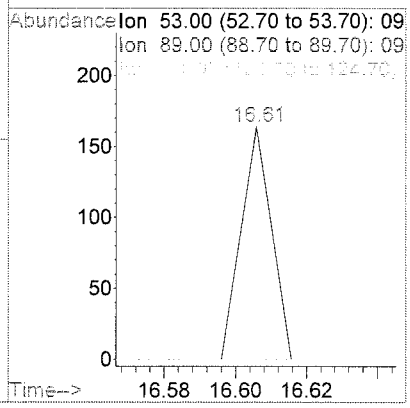
mm.



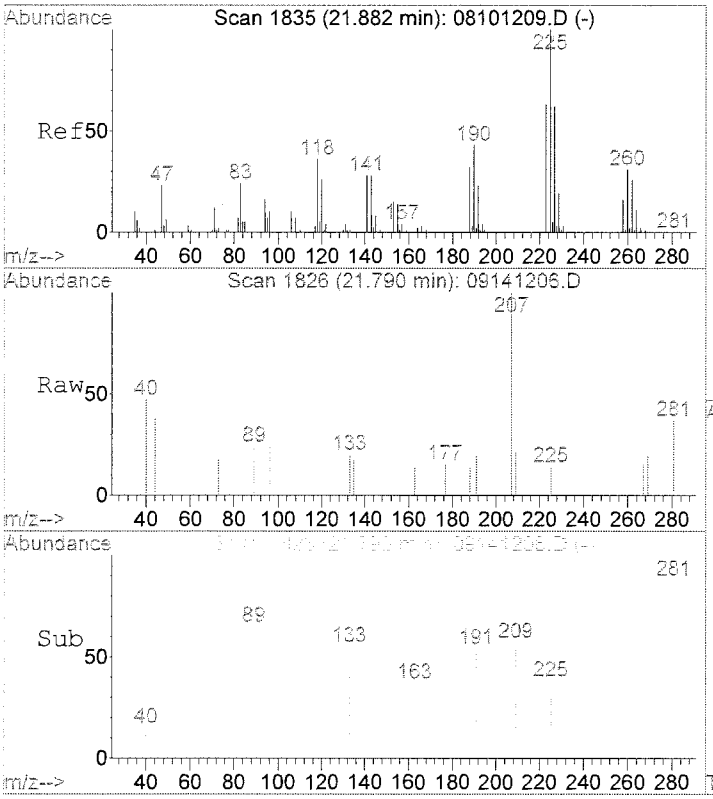
#67
trans-1,4-Dichloro-2-butene
Concen: 1.15 ug/L
RT: 16.61 min Scan# 1299
Delta R.T. -0.01 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion: 53 Resp: 97

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



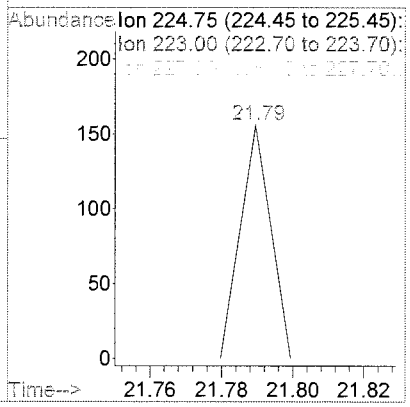
9



#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.79 min Scan# 1826
Delta R.T. -0.09 min
Lab File: 09141206.D
Acq: 14 Sep 2012 9:01 am

Tgt Ion:225 Resp: 92

Ion	Ratio	Lower	Upper
225	100		
223	100.0	47.8	71.8#
227	0.0	50.6	75.8#

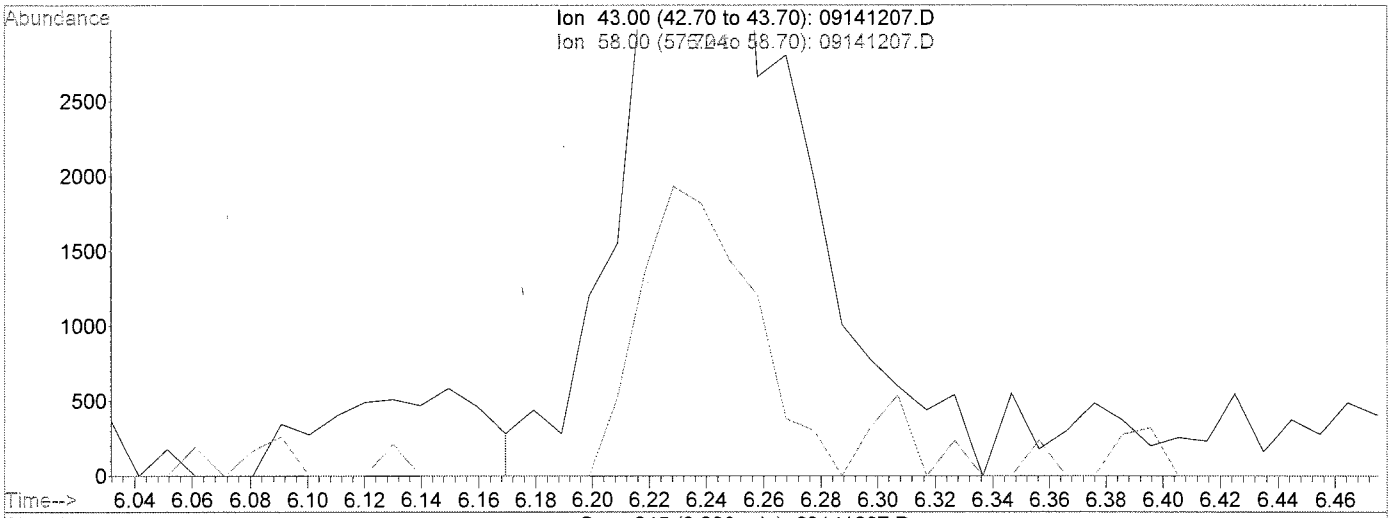


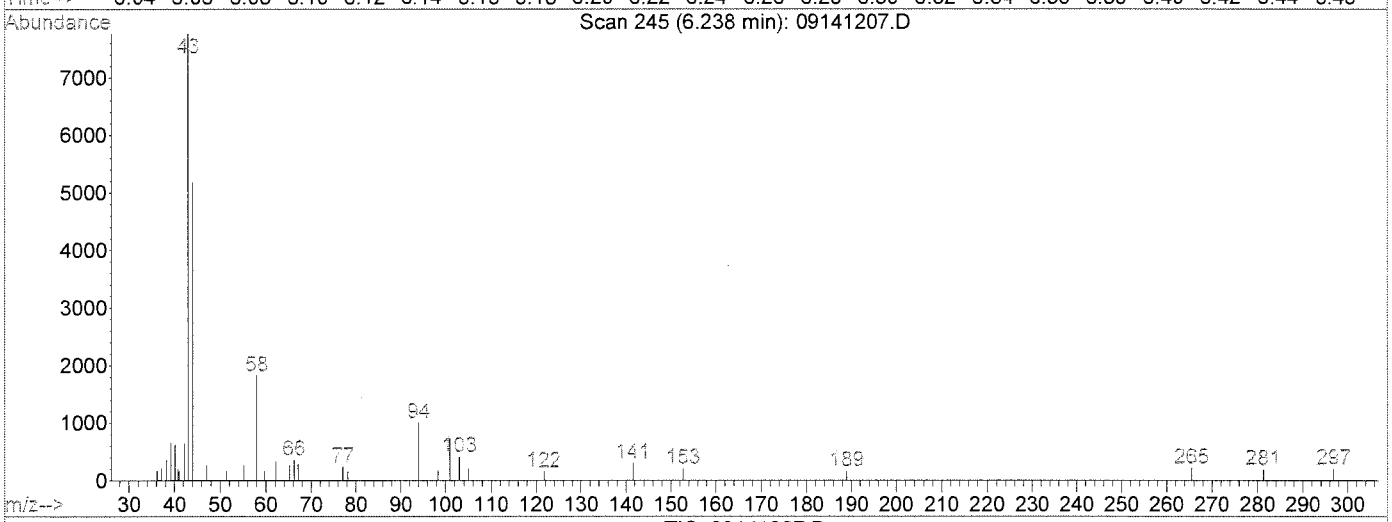
MM.

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141207.D

(12) Acetone (T)

6.24min 19.51ug/L

response 22790

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	23.27#
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

B

BV

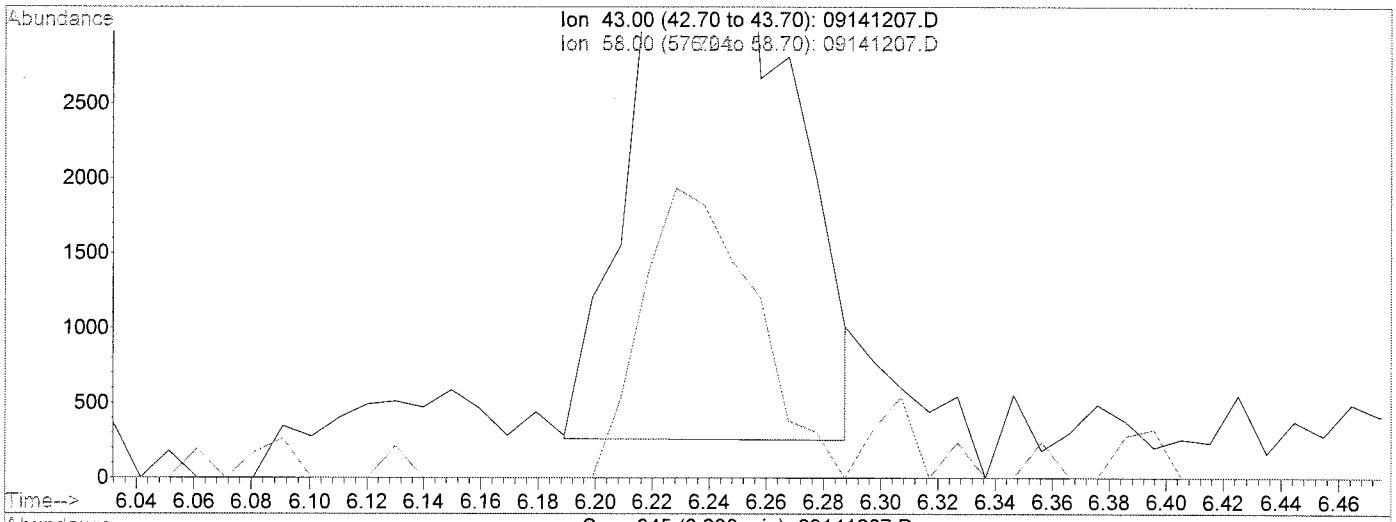
MM

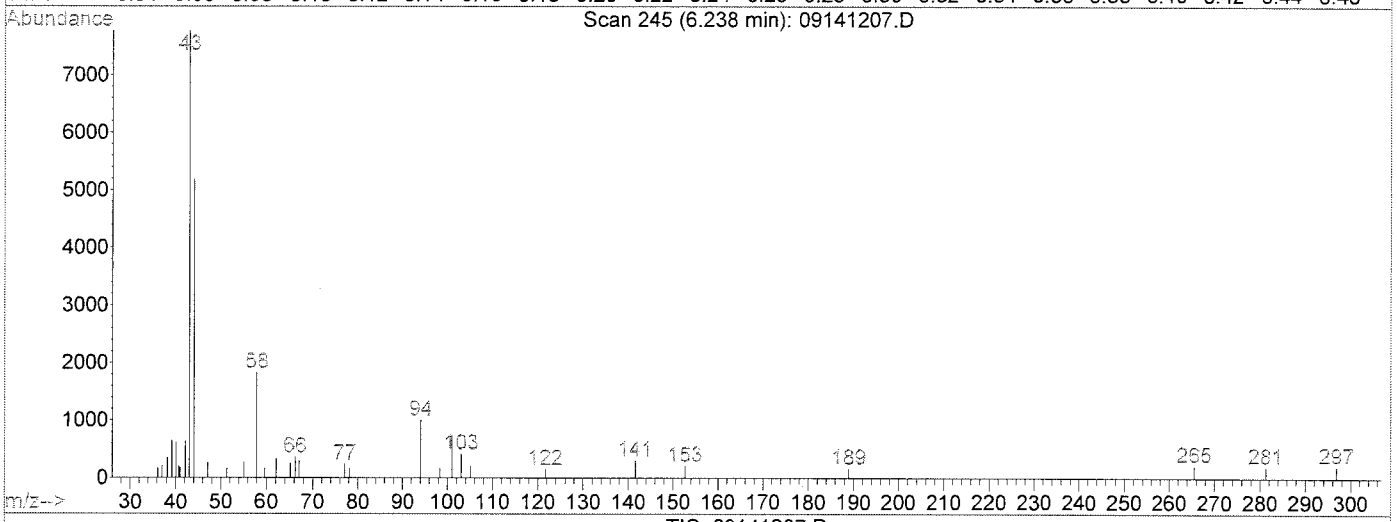
9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141207.D

(12) Acetone (T)

6.24min 16.66ug/L m

response 19461

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.25
0.00	0.00	0.00
0.00	0.00	0.00

9/17/12

A

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	56594	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	277447	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	401106	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	286216	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.75	152	120178	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	131612	27.12 ug/L	-0.02
Spiked Amount 25.000			Recovery =	108.48%	
48) Toluene-d8	13.30	98	372356	23.51 ug/L	-0.02
Spiked Amount 25.000			Recovery =	94.04%	
62) 4-Bromofluorobenzene	16.94	95	114444	25.88 ug/L	-0.01
Spiked Amount 25.000			Recovery =	103.52%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	73928	2422.95 ug/L #	66
3) tert-Butanol (TBA)	6.80	59	46835	141.47 ug/L	100
5) Dichlorodifluoromethane	4.09	85	308466	30.30 ug/L	98
6) Chloromethane	4.34	50	278500	28.11 ug/L	97
7) Vinyl Chloride	4.63	62	244510	26.97 ug/L	100
8) 1,3-Butadiene	4.77	54	192814	39.32 ug/L	97
9) Bromomethane	5.17	94	155505	28.08 ug/L	98
10) Chloroethane	5.36	64	114865	25.54 ug/L	97
11) Trichlorofluoromethane	6.09	101	280795	35.04 ug/L	100
12) Acetone	6.24	43	19461m	16.66 ug/L	
13) Iodomethane	6.84	142	289890	30.95 ug/L	92
14) 1,1-Dichloroethene	6.79	96	150756	27.03 ug/L	96
15) Methylene Chloride	6.98	84	114506	23.06 ug/L	94
16) Freon 113	7.05	101	179074	30.99 ug/L	98
17) Carbon disulfide	7.28	76	496483	27.37 ug/L	99
18) trans-1,2-Dichloroethene	7.84	96	146439	22.64 ug/L	97
19) MTBE	7.98	73	225337	24.64 ug/L	98
20) 1,1-Dichloroethane	8.16	63	230672	22.96 ug/L	98
21) Vinyl Acetate	8.31	43	175315	24.62 ug/L	100
22) n-Hexane	8.67	86	34921	21.99 ug/L	84
23) 2-Butanone (MEK)	8.71	72	8590	21.50 ug/L #	52
24) Diisopropyl Ether (DIPE)	8.72	45	381108	22.47 ug/L	98
25) cis-1,2-Dichloroethene	8.88	96	138719	23.56 ug/L	99
26) Bromochloromethane	9.10	128	55598	23.79 ug/L	93
27) Chloroform	9.15	83	211318	24.05 ug/L	98
28) 2,2-Dichloropropane	9.26	77	189271	28.45 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	289298	23.63 ug/L	98
31) Tetrahydrofuran	9.57	72	5563	15.31 ug/L	94
32) 1,2-Dichloroethane	10.00	62	113965	26.88 ug/L	96
33) 1,1,1-Trichloroethane	10.11	97	209442	28.46 ug/L	99
34) (TAME) tert-Amyl methyl et	10.83	73	231971	23.51 ug/L	98
36) 1,1-Dichloropropene	10.35	75	169064	19.71 ug/L	99
37) Carbon Tetrachloride	10.59	117	190536	28.33 ug/L	99
38) Benzene	10.64	78	451212	22.05 ug/L	97
39) Dibromomethane	11.36	93	57226	23.68 ug/L	93
40) 1,2-Dichloropropane	11.41	63	99522	20.41 ug/L #	90

(#) = qualifier out of range (m) = manual integration
09141207.D 081012.M Fri Sep 14 14:35:47 2012

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.46	95	139108	24.24 ug/L		98
42)	Bromodichloromethane	11.53	83	135466	24.14 ug/L		98
43)	2-Chlorovinylethylether	12.06	63	426	0.23 ug/L	#	53
44)	cis-1,3-Dichloropropene	12.37	75	150789	23.04 ug/L		94
45)	4-Methyl-2-Pentanone (MIBK	12.50	43	59485	20.24 ug/L		98
46)	trans-1,3-Dichloropropene	12.94	75	119268	23.96 ug/L		94
47)	1,1,2-Trichloroethane	13.15	97	67573	23.81 ug/L		94
49)	Toluene	13.40	92	268261	23.05 ug/L		99
51)	1,3-Dichloropropane	13.47	76	111601	21.96 ug/L		96
52)	2-Hexanone	13.66	43	36846	17.34 ug/L		98
53)	Dibromochloromethane	13.83	129	91738	24.90 ug/L		99
54)	1,2-Dibromoethane	14.17	107	71260	23.07 ug/L		98
55)	Tetrachloroethene	14.39	164	113878	22.58 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.20	131	104796	25.94 ug/L		98
57)	Chlorobenzene	15.30	112	287347	24.46 ug/L		99
58)	Ethylbenzene	15.56	91	496667	24.20 ug/L		99
59)	m,p-Xylenes	15.83	106	192686	24.61 ug/L		97
60)	Styrene	16.28	104	257351	24.54 ug/L		98
61)	o-Xylene	16.38	106	173285	23.94 ug/L		99
64)	Bromoform	15.99	173	54646	26.42 ug/L		93
65)	1,1,2,2-Tetrachloroethane	16.37	83	70497	21.84 ug/L		96
66)	1,2,3-Trichloropropane	16.58	110	18229	23.43 ug/L		93
67)	trans-1,4-Dichloro-2-buten	16.60	53	13698	17.61 ug/L	#	82
68)	Isopropylbenzene	16.88	105	486079	27.08 ug/L		99
69)	Bromobenzene	17.23	156	106120	24.26 ug/L		97
70)	n-Propylbenzene	17.49	91	555497	24.38 ug/L		98
71)	2-Chlorotoluene	17.63	91	307751	24.98 ug/L		98
72)	4-Chlorotoluene	17.74	91	300180	24.91 ug/L		98
73)	1,3,5-Trimethylbenzene	17.89	105	363346	25.96 ug/L		97
74)	tert-Butylbenzene	18.29	119	329291	26.34 ug/L		96
75)	1,2,4-Trimethylbenzene	18.45	105	334789	25.28 ug/L		100
76)	sec-Butylbenzene	18.59	105	507793	25.10 ug/L		99
77)	1,3-Dichlorobenzene	18.70	146	186458	23.43 ug/L		98
78)	1,4-Dichlorobenzene	18.79	146	179538	23.01 ug/L		96
79)	p-Isopropyltoluene	18.84	119	381509	25.17 ug/L		98
80)	1,2-Dichlorobenzene	19.26	146	155287	23.96 ug/L		97
81)	n-Butylbenzene	19.37	91	337762	23.24 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.84	75	8827	27.14 ug/L		89
83)	1,2,4-Trichlorobenzene	21.49	180	88592	25.50 ug/L		97
84)	Napthalene	21.81	128	139742	25.14 ug/L		100
85)	Hexachlorobutadiene	21.87	225	77763	33.09 ug/L		98
86)	1,2,3-Trichlorobenzene	22.06	180	71218	25.28 ug/L		98

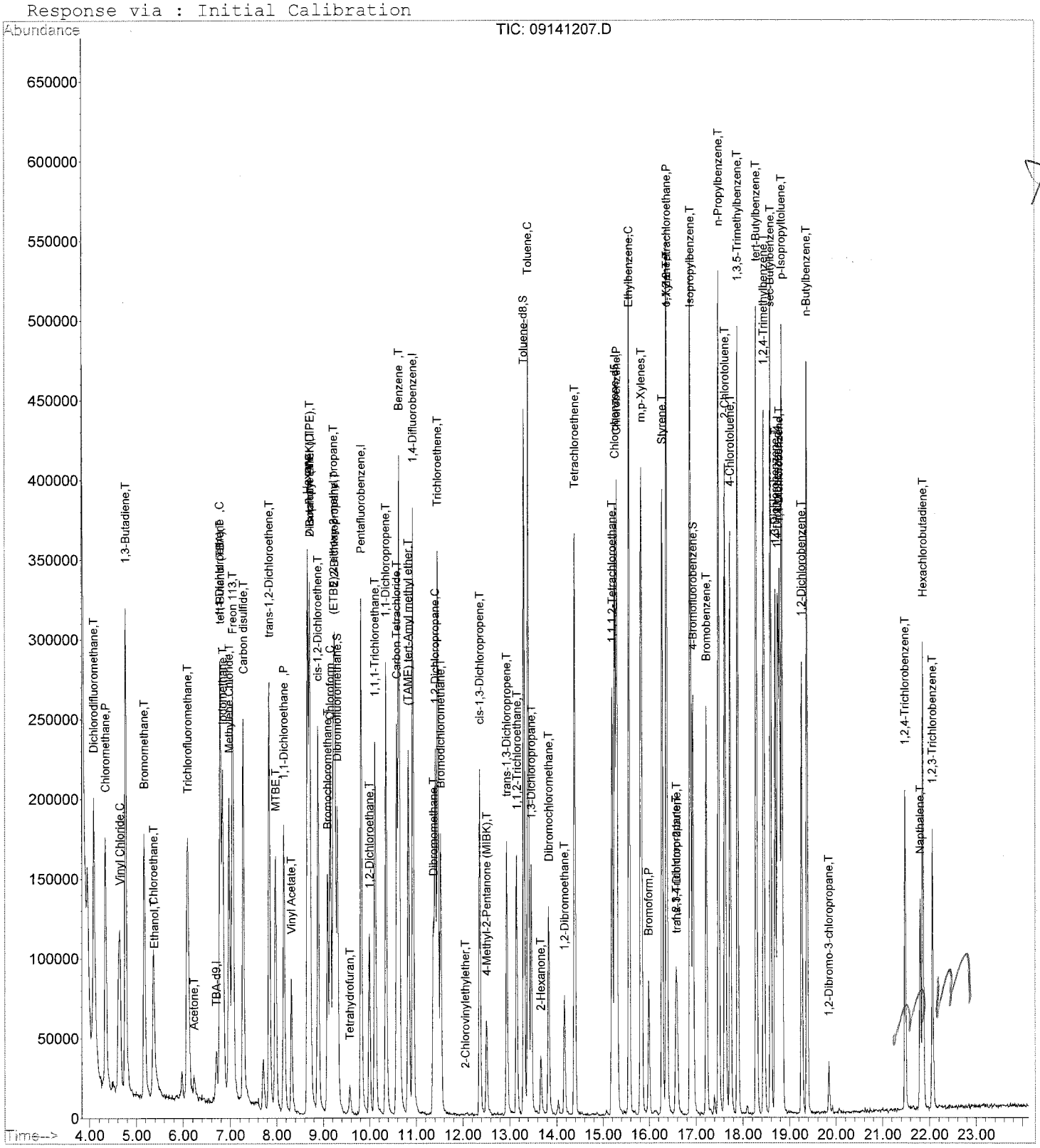
MM

(#) = qualifier out of range (m) = manual integration
09141207.D 081012.M Fri Sep 14 14:35:47 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141207.D Vial: 7
Acq On : 14 Sep 2012 9:40 am Operator: MNM
Sample : 12I0474-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: 081012.RES

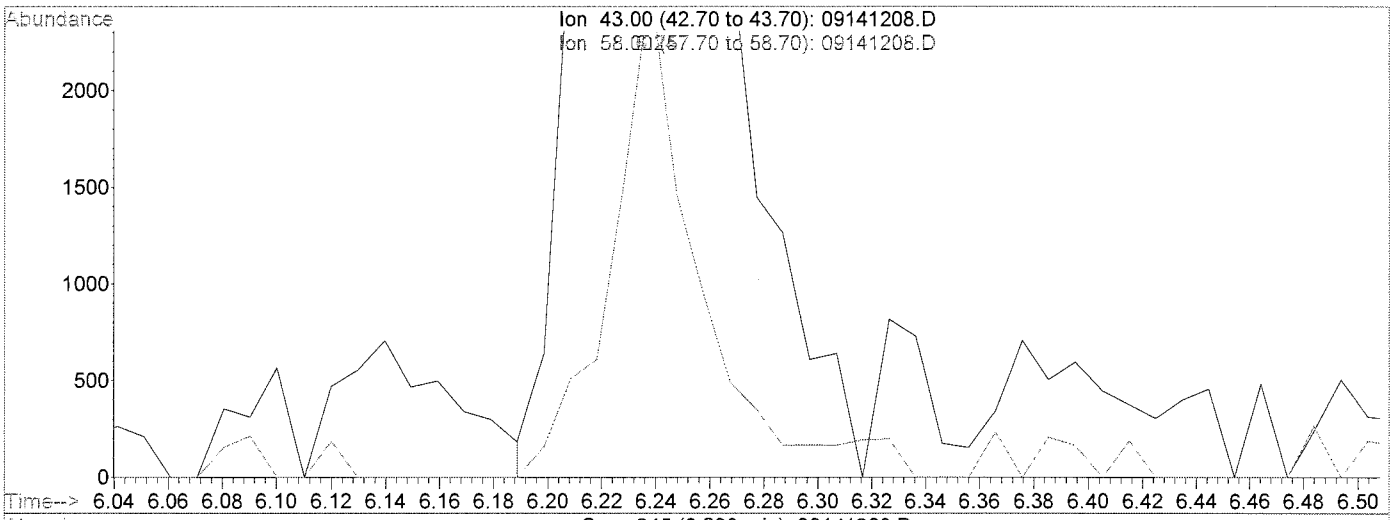
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

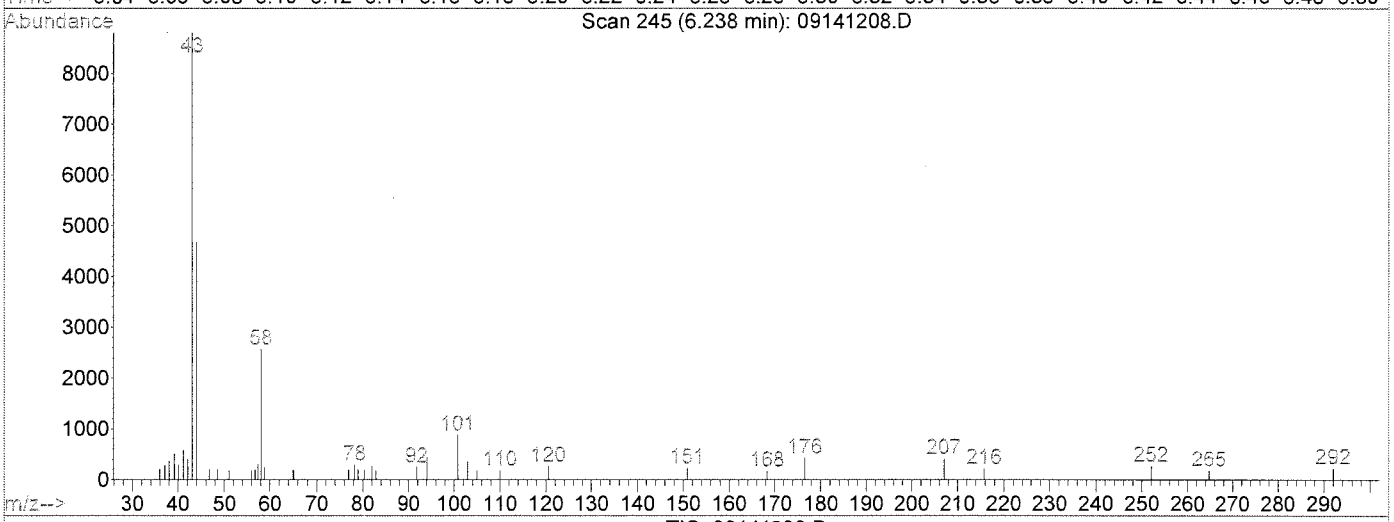


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:35 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141208.D

(12) Acetone (T)

6.24min 18.99ug/L

response 23668

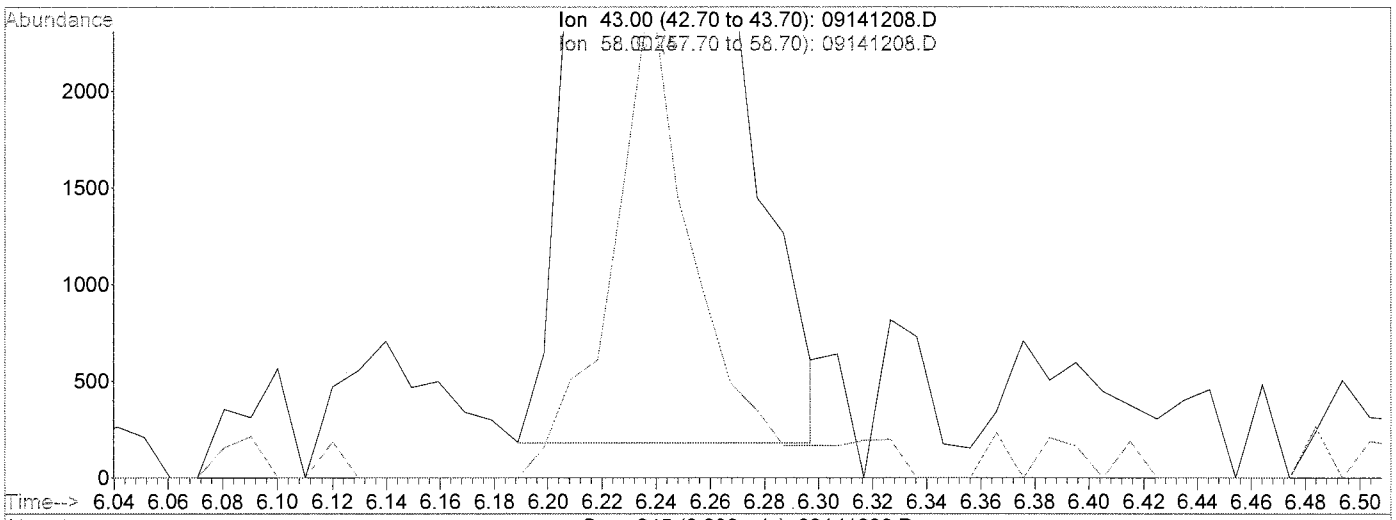
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	22.71#
0.00	0.00	0.00
0.00	0.00	0.00

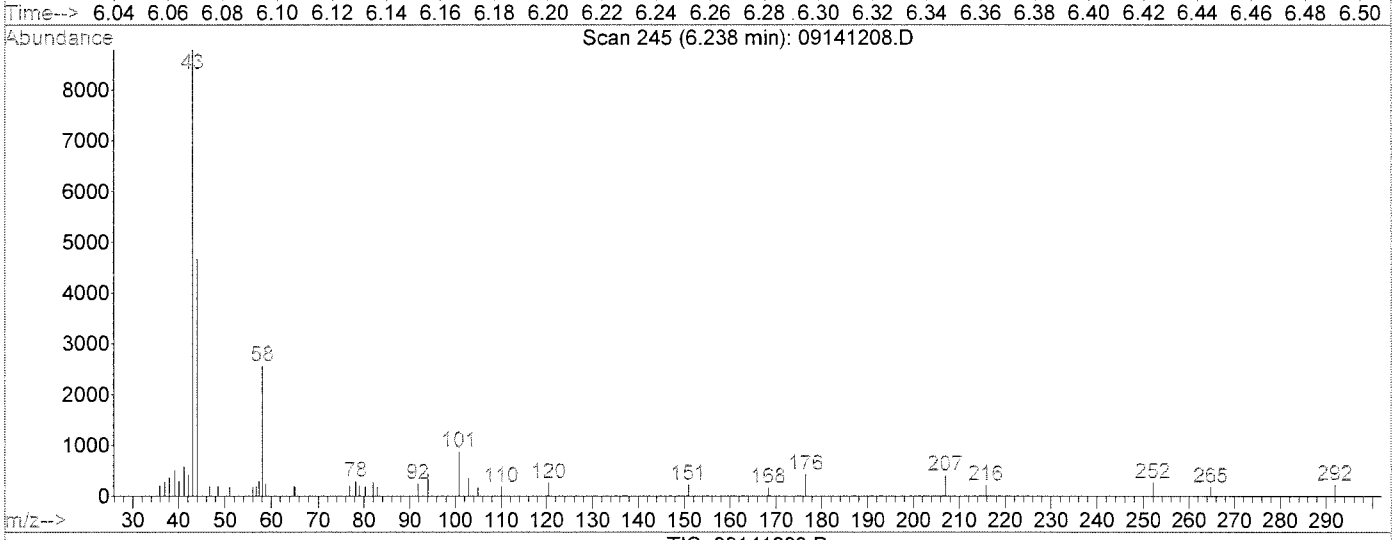
B 9/17/12
BL MM 9/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09141208.D

9/17/12

(12) Acetone (T)

6.24min 17.75ug/L m

response 22119

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.30#
0.00	0.00	0.00
0.00	0.00	0.00

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.70	65	63800	200.00	ug/L	-0.02
4) Pentafluorobenzene	9.82	168	296037	25.00	ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	407780	25.00	ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	308028	25.00	ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	128229	25.00	ug/L	-0.01
System Monitoring Compounds						
30) Dibromofluoromethane	9.31	113	136049	26.28	ug/L	-0.02
Spiked Amount 25.000			Recovery	=	105.12%	
48) Toluene-d8	13.31	98	399428	24.80	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	16.94	95	126114	26.49	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	105.96%	

Target Compounds						Qvalue
2) Ethanol	5.39	45	63235	1838.41	ug/L #	68
3) tert-Butanol (TBA)	6.81	59	53623	143.68	ug/L	99
5) Dichlorodifluoromethane	4.09	85	309315	28.48	ug/L	99
6) Chloromethane	4.34	50	276129	26.12	ug/L	96
7) Vinyl Chloride	4.63	62	245936	25.42	ug/L	100
8) 1,3-Butadiene	4.77	54	192637	36.82	ug/L	95
9) Bromomethane	5.17	94	164139	27.78	ug/L	99
10) Chloroethane	5.36	64	121460	25.31	ug/L	97
11) Trichlorofluoromethane	6.09	101	289436	33.85	ug/L	98
12) Acetone	6.24	43	22119m	17.75	ug/L	
13) Iodomethane	6.84	142	299869	30.00	ug/L	90
14) 1,1-Dichloroethene	6.78	96	158321	26.60	ug/L	99
15) Methylene Chloride	6.98	84	130010	24.53	ug/L	95
16) Freon 113	7.05	101	175103	28.40	ug/L	97
17) Carbon disulfide	7.27	76	517850	26.75	ug/L	97
18) trans-1,2-Dichloroethene	7.84	96	155531	22.53	ug/L	98
19) MTBE	7.98	73	231767	23.75	ug/L	97
20) 1,1-Dichloroethane	8.16	63	234975	21.92	ug/L	99
21) Vinyl Acetate	8.31	43	167853	22.09	ug/L	100
22) n-Hexane	8.67	86	37308	22.02	ug/L	80
23) 2-Butanone (MEK)	8.70	72	7541	17.69	ug/L #	2
24) Diisopropyl Ether (DIPE)	8.72	45	383033	21.17	ug/L	97
25) cis-1,2-Dichloroethene	8.88	96	141484	22.52	ug/L	97
26) Bromochloromethane	9.10	128	57184	22.93	ug/L	88
27) Chloroform	9.15	83	217269	23.17	ug/L	95
28) 2,2-Dichloropropane	9.26	77	188809	26.60	ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.22	59	299394	22.92	ug/L	98
31) Tetrahydrofuran	9.57	72	5825	15.02	ug/L	95
32) 1,2-Dichloroethane	10.00	62	115813	25.60	ug/L	96
33) 1,1,1-Trichloroethane	10.11	97	216722	27.60	ug/L	97
34) (TAME) tert-Amyl methyl et	10.83	73	229473	21.80	ug/L	95
36) 1,1-Dichloropropene	10.35	75	165481	18.98	ug/L	97
37) Carbon Tetrachloride	10.59	117	196669	28.77	ug/L	98
38) Benzene	10.63	78	461133	22.16	ug/L	96
39) Dibromomethane	11.37	93	55978	22.79	ug/L	97
40) 1,2-Dichloropropane	11.41	63	107355	21.65	ug/L	94

(#) = qualifier out of range (m) = manual integration
09141208.D 081012.M Fri Sep 14 14:36:14 2012

MM 9/17/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.46	95	142981	24.51 ug/L		98
42)	Bromodichloromethane	11.53	83	146207	25.62 ug/L		96
44)	cis-1,3-Dichloropropene	12.37	75	155509	23.37 ug/L		93
45)	4-Methyl-2-Pentanone (MIBK	12.51	43	62819	21.03 ug/L		99
46)	trans-1,3-Dichloropropene	12.94	75	125160	24.74 ug/L		96
47)	1,1,2-Trichloroethane	13.14	97	66968	23.21 ug/L		96
49)	Toluene	13.40	92	278022	23.49 ug/L		99
51)	1,3-Dichloropropane	13.47	76	115671	21.15 ug/L		99
52)	2-Hexanone	13.66	43	36107	15.79 ug/L		95
53)	Dibromochloromethane	13.83	129	101510	25.60 ug/L		92
54)	1,2-Dibromoethane	14.17	107	73201	22.02 ug/L		95
55)	Tetrachloroethene	14.39	164	125829	23.19 ug/L		97
56)	1,1,1,2-Tetrachloroethane	15.20	131	106874	24.58 ug/L		96
57)	Chlorobenzene	15.31	112	293560	23.22 ug/L		99
58)	Ethylbenzene	15.56	91	521054	23.59 ug/L		99
59)	m,p-Xylenes	15.83	106	202073	23.98 ug/L		96
60)	Styrene	16.28	104	269285	23.86 ug/L		98
61)	o-Xylene	16.38	106	182943	23.49 ug/L		96
64)	Bromoform	16.00	173	55491	25.14 ug/L		94
65)	1,1,2,2-Tetrachloroethane	16.37	83	74118	21.52 ug/L		99
66)	1,2,3-Trichloropropane	16.58	110	20668	24.90 ug/L	#	91
67)	trans-1,4-Dichloro-2-buten	16.60	53	14811	17.83 ug/L		88
68)	Isopropylbenzene	16.88	105	505960	26.42 ug/L		99
69)	Bromobenzene	17.23	156	115948	24.85 ug/L		97
70)	n-Propylbenzene	17.49	91	585890	24.10 ug/L		97
71)	2-Chlorotoluene	17.63	91	332547	25.30 ug/L		99
72)	4-Chlorotoluene	17.74	91	313925	24.42 ug/L		99
73)	1,3,5-Trimethylbenzene	17.89	105	390048	26.11 ug/L		98
74)	tert-Butylbenzene	18.29	119	345228	25.88 ug/L		97
75)	1,2,4-Trimethylbenzene	18.44	105	364934	25.83 ug/L		97
76)	sec-Butylbenzene	18.59	105	519571	24.07 ug/L		99
77)	1,3-Dichlorobenzene	18.70	146	202746	23.87 ug/L		95
78)	1,4-Dichlorobenzene	18.79	146	197349	23.70 ug/L		98
79)	p-Isopropyltoluene	18.84	119	415232	25.67 ug/L		98
80)	1,2-Dichlorobenzene	19.26	146	168944	24.43 ug/L		98
81)	n-Butylbenzene	19.37	91	360831	23.26 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.84	75	9115	26.24 ug/L		97
83)	1,2,4-Trichlorobenzene	21.49	180	99415	26.81 ug/L		99
84)	Napthalene	21.81	128	145288	24.50 ug/L		99
85)	Hexachlorobutadiene	21.87	225	85638	34.24 ug/L		96
86)	1,2,3-Trichlorobenzene	22.06	180	79795	26.62 ug/L		100

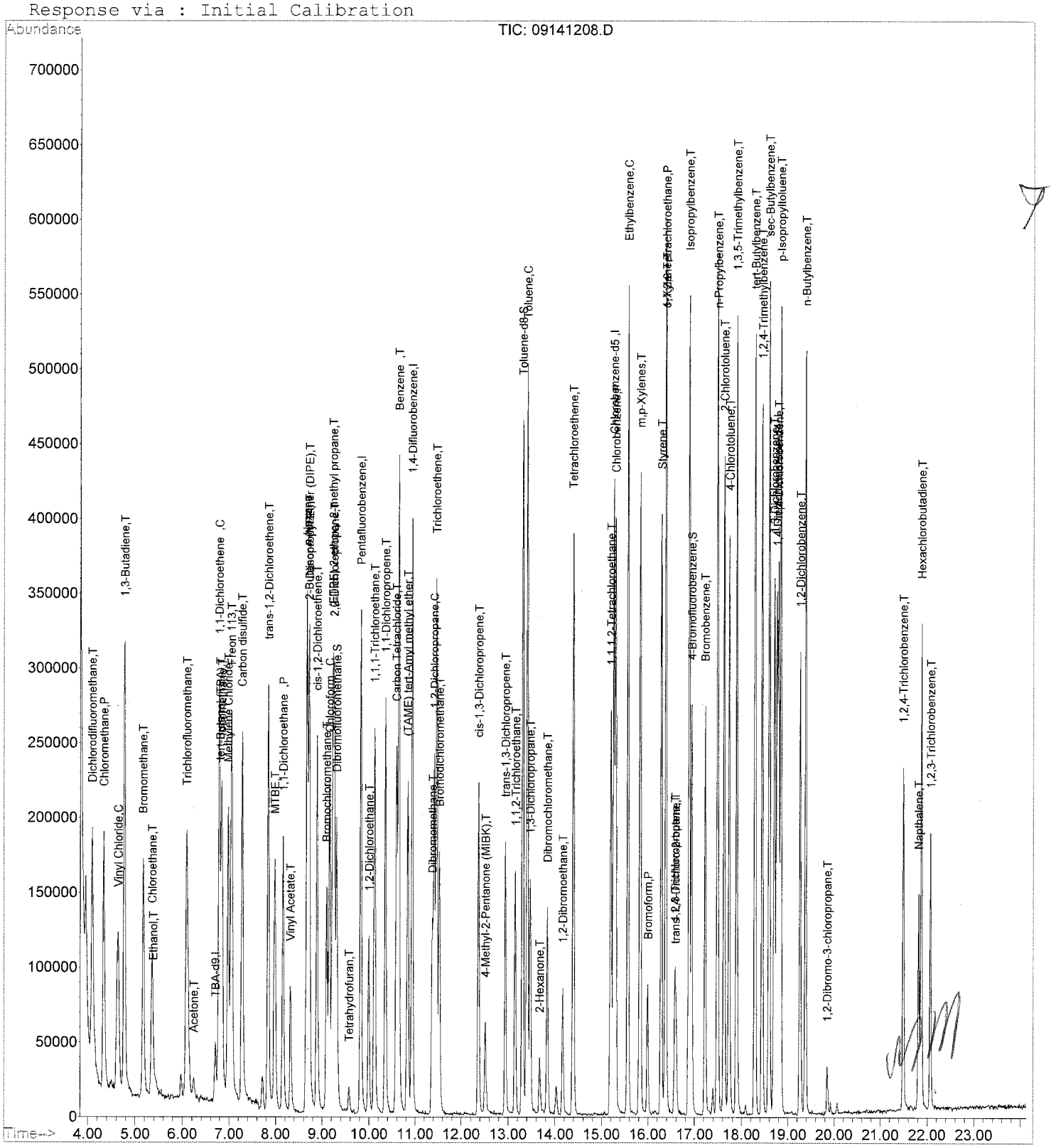
MNM

(#) = qualifier out of range (m) = manual integration
09141208.D 081012.M Fri Sep 14 14:36:14 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141208.D Vial: 8
Acq On : 14 Sep 2012 10:12 am Operator: MNM
Sample : 12I0474-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:36 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141214.D Vial: 14
Acq On : 14 Sep 2012 1:28 pm Operator: MNM
Sample : PVI0717-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:38 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	54246	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	272776	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	377072	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	275796	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	106234	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	132070	27.68 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 110.72%	
48) Toluene-d8	13.31	98	372987	25.05 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 100.20%	
62) 4-Bromofluorobenzene	16.95	95	106246	24.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.72%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	48658	1663.77 ug/L #	62
3) tert-Butanol (TBA)	6.81	59	110	0.35 ug/L #	1
9) Bromomethane	5.07	94	1013	0.19 ug/L #	23
12) Acetone	6.27	43	5739	5.00 ug/L #	45
15) Methylene Chloride	6.96	84	532	0.11 ug/L #	46
25) cis-1,2-Dichloroethene	8.88	96	975	0.17 ug/L #	35
27) Chloroform	9.16	83	4025	0.47 ug/L	96 J
34) (TAME) tert-Amyl methyl et	10.93	73	3564	0.37 ug/L #	20
41) Trichloroethene	11.47	95	840	0.16 ug/L #	78
52) 2-Hexanone	13.73	43	211	0.10 ug/L #	34
55) Tetrachloroethene	14.40	164	747	0.15 ug/L #	80
66) 1,2,3-Trichloropropane	16.46	110	92	0.13 ug/L #	22
67) trans-1,4-Dichloro-2-buten	16.61	53	323	1.46 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	20.03	75	114	0.57 ug/L #	25
86) 1,2,3-Trichlorobenzene	22.20	180	95	Below Cal #	11

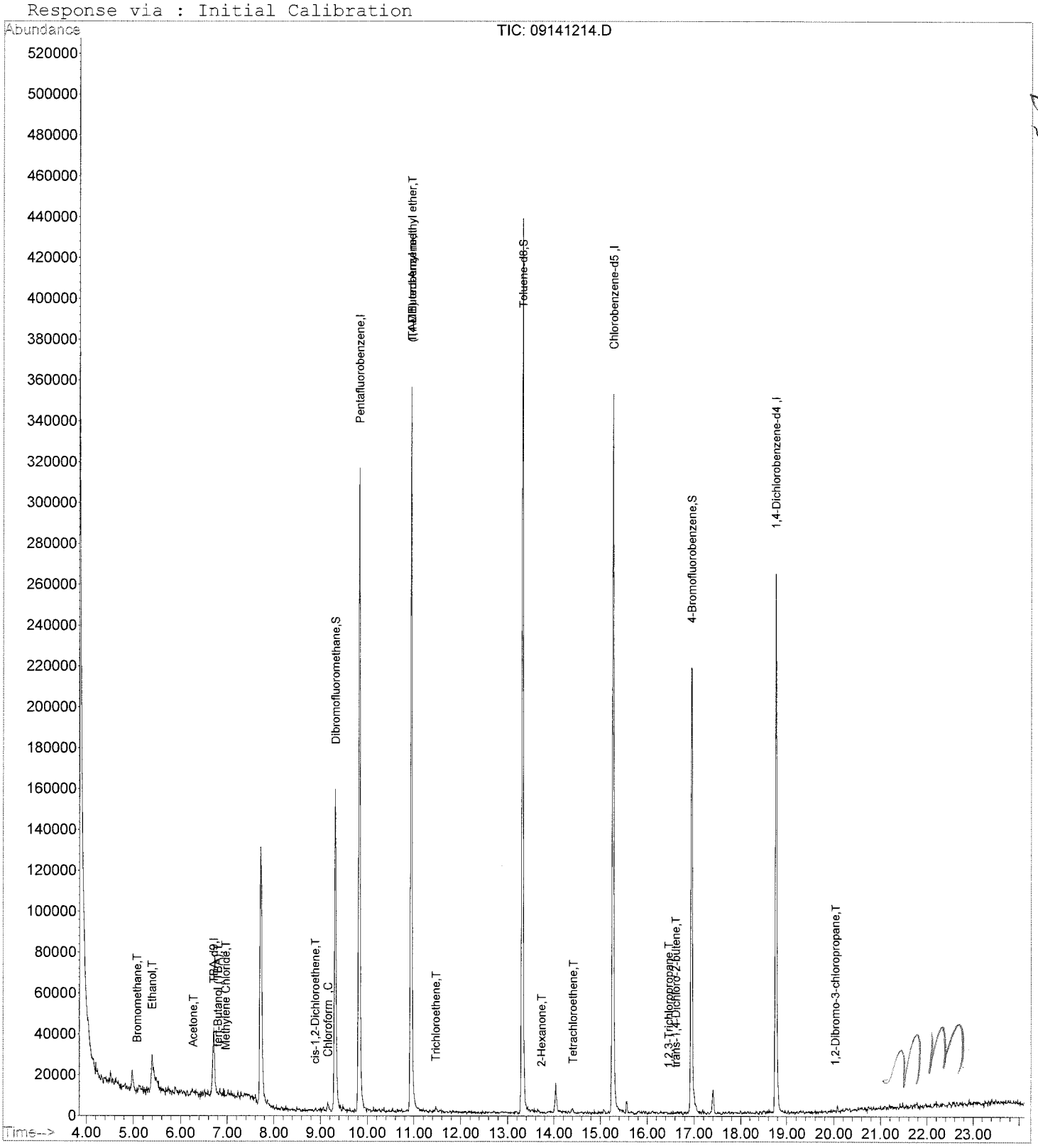
MM 9/17/12

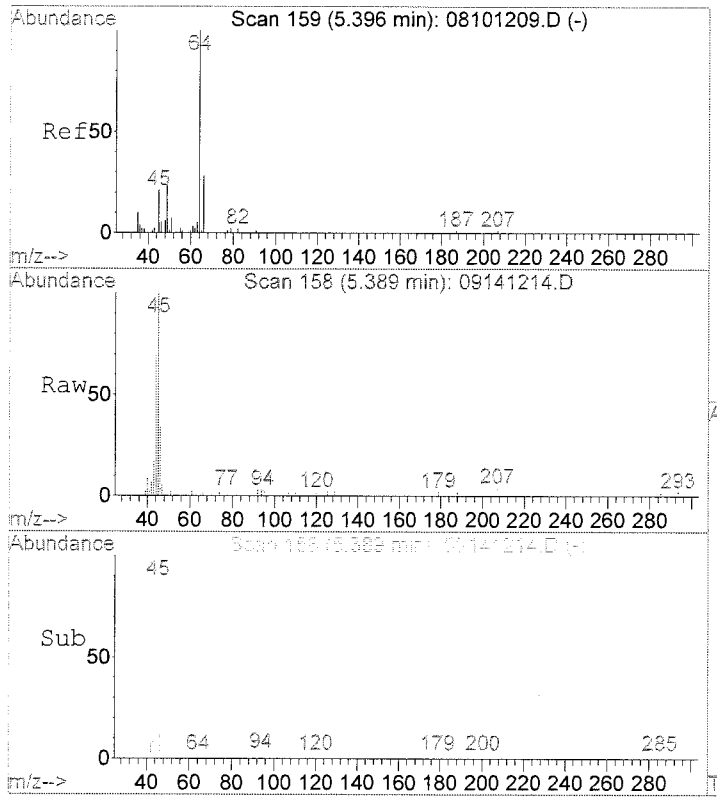
(#) = qualifier out of range (m) = manual integration
09141214.D 081012.M Fri Sep 14 14:38:28 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141214.D Vial: 14
Acq On : 14 Sep 2012 1:28 pm Operator: MNM
Sample : PVI0717-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:38 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

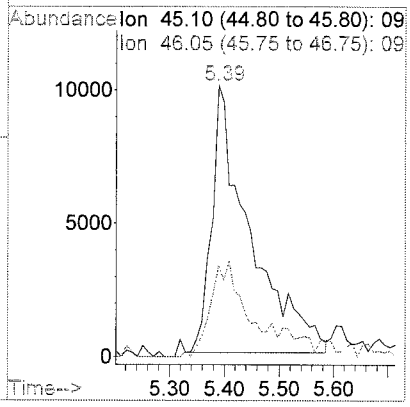


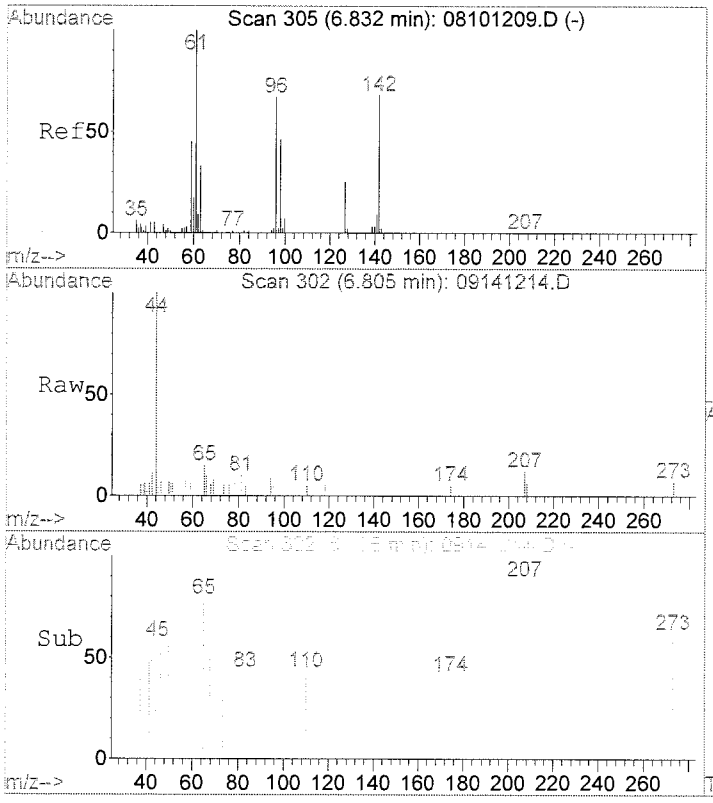


#2
Ethanol
Concen: 1663.77 ug/L
RT: 5.39 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 45 Resp: 48658

Ion	Ratio	Lower	Upper
45	100		
46	31.3	39.9	79.9#

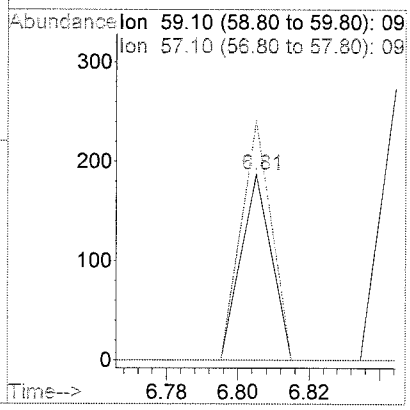


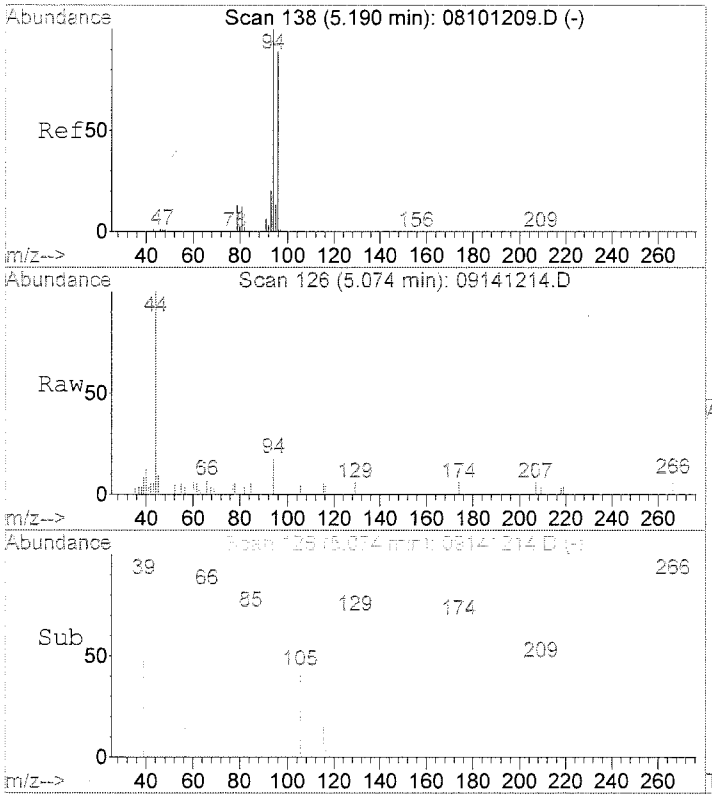


#3
tert-Butanol (TBA)
Concen: 0.35 ug/L
RT: 6.81 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 59 Resp: 110

Ion	Ratio	Lower	Upper
59	100		
57	129.1	6.4	9.6#

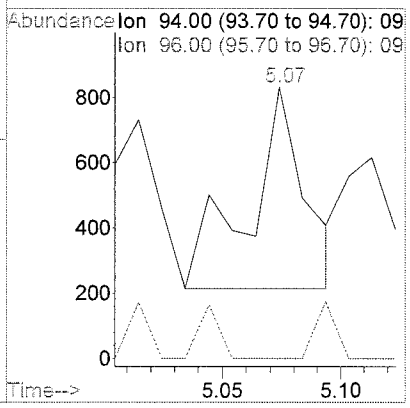


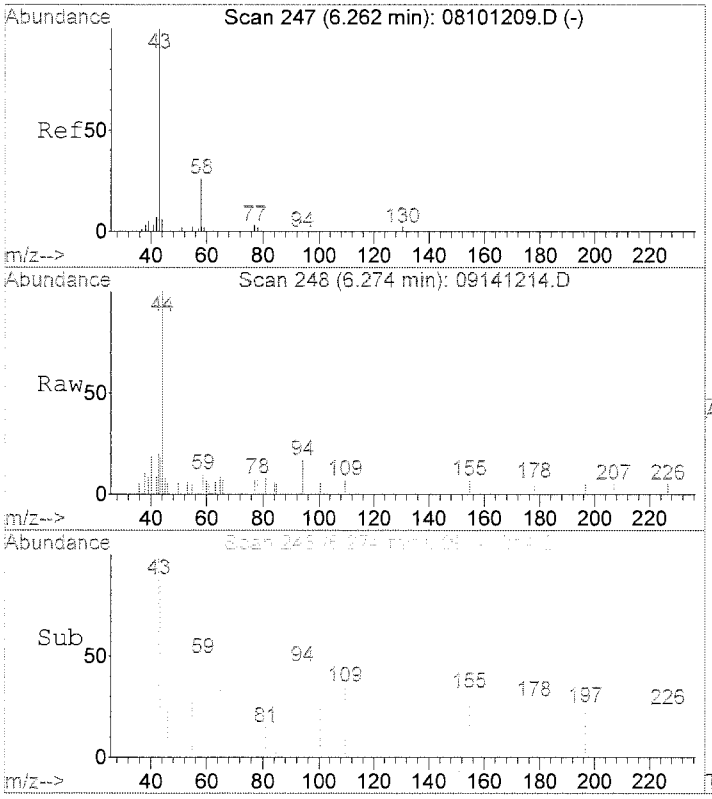


#9
Bromomethane
Concen: 0.19 ug/L
RT: 5.07 min Scan# 126
Delta R.T. -0.12 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 94 Resp: 1013

Ion	Ratio	Lower	Upper
94	100		
96	20.1	75.8	113.6#

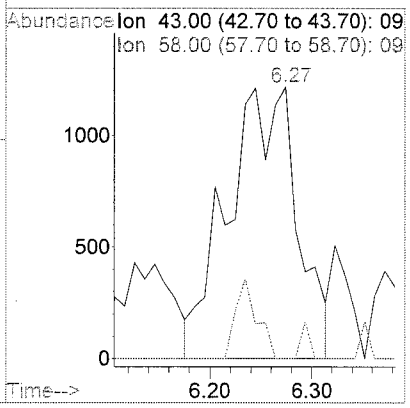




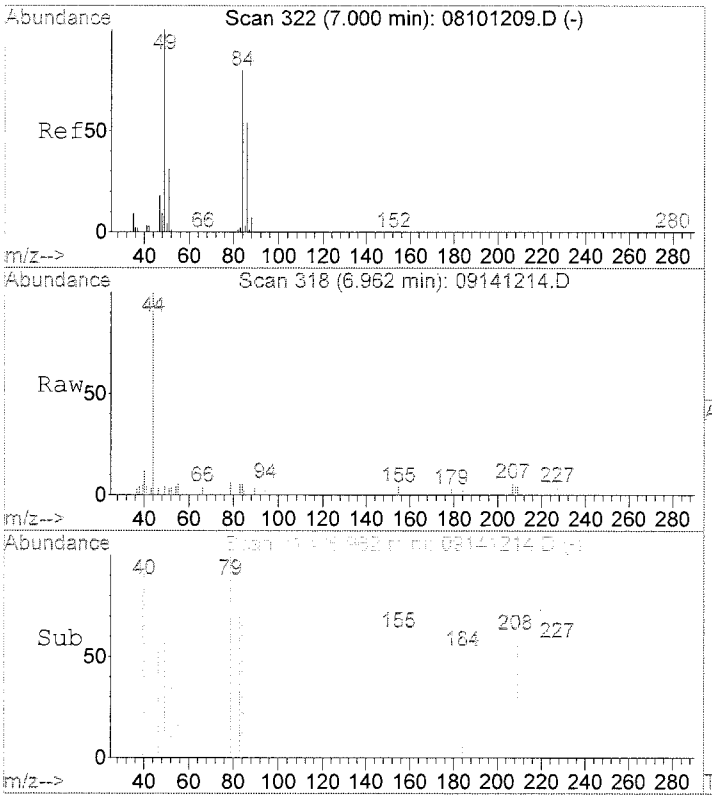
#12
Acetone
Concen: 5.00 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 43 Resp: 5739

Ion	Ratio	Lower	Upper
43	100		
58	1.7	25.9	38.9#



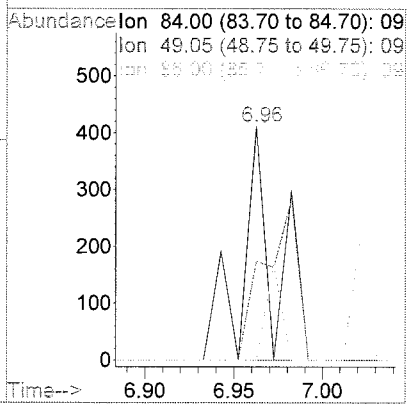
MM

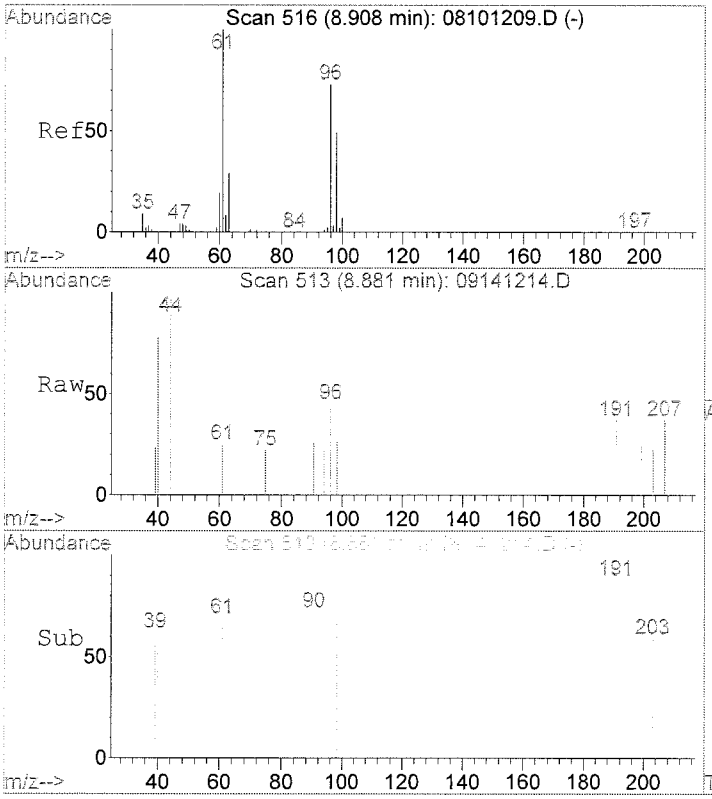


#15
Methylene Chloride
Concen: 0.11 ug/L
RT: 6.96 min Scan# 318
Delta R.T. -0.04 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 84 Resp: 532

Ion	Ratio	Lower	Upper
84	100		
49	68.8	103.4	155.0#
86	18.6	52.0	78.0#

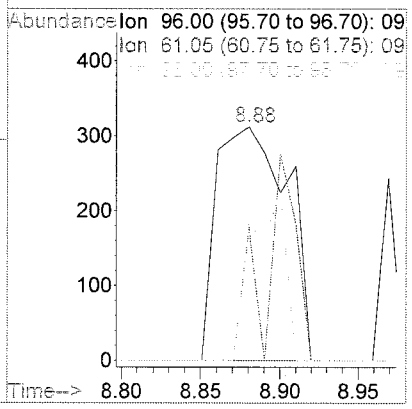




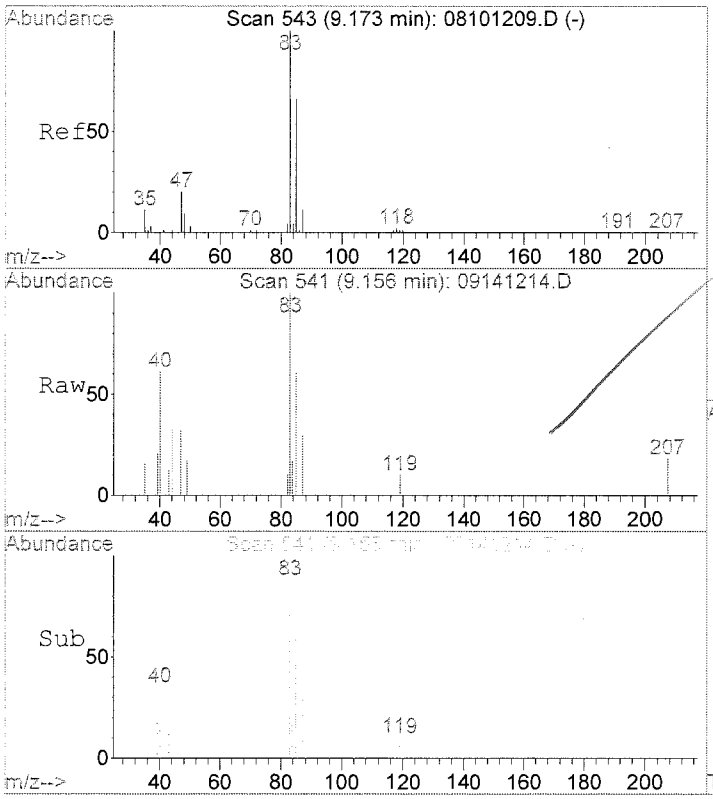
#25
cis-1,2-Dichloroethene
Concen: 0.17 ug/L
RT: 8.88 min Scan# 513
Delta R.T. -0.03 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 96 Resp: 975

Ion	Ratio	Lower	Upper
96	100		
61	38.5	103.2	154.8#
98	34.5	51.4	77.2#



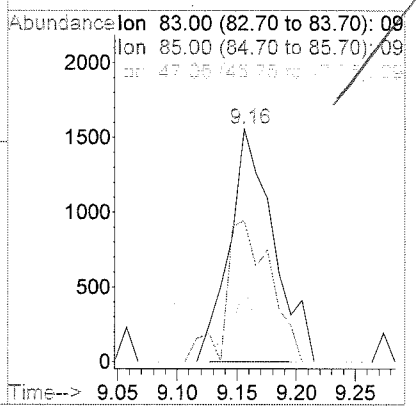
MM

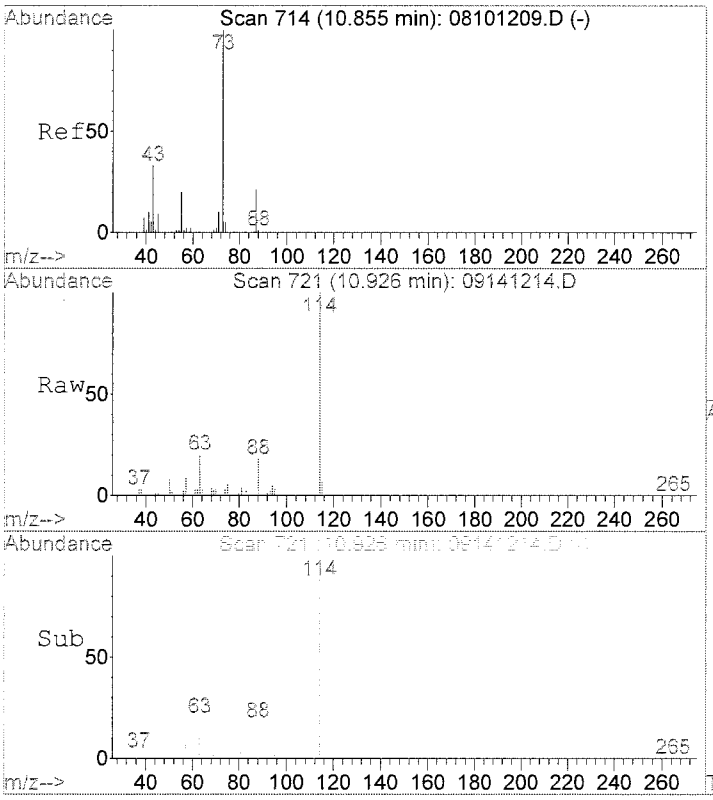


#27
Chloroform
Concen: 0.47 ug/L
RT: 9.16 min Scan# 541
Delta R.T. -0.02 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 83 Resp: 4025

Ion	Ratio	Lower	Upper
83	100		
85	61.0	51.6	77.4
47	22.8	18.9	28.3

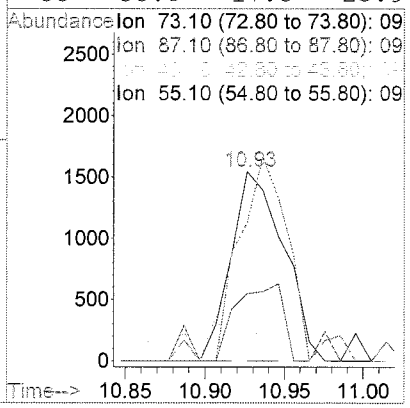


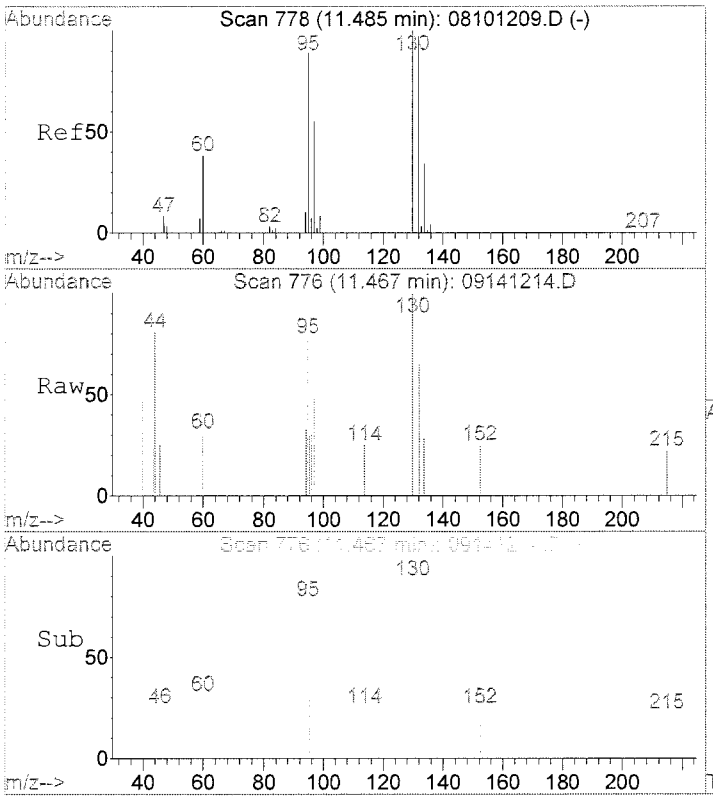


#34
(TAME) tert-Amyl methyl ether
Concen: 0.37 ug/L
RT: 10.93 min Scan# 721
Delta R.T. 0.07 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 73 Resp: 3564

Ion	Ratio	Lower	Upper
73	100		
87	105.9	16.4	24.6#
43	6.5	27.0	40.4#
55	35.8	17.3	25.9#

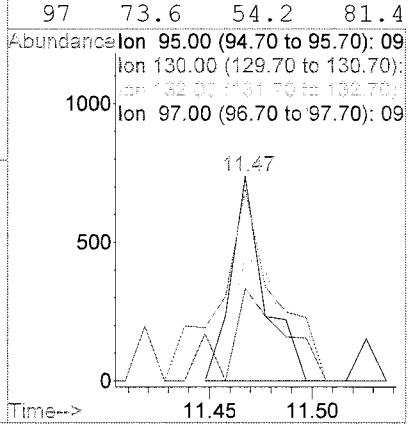


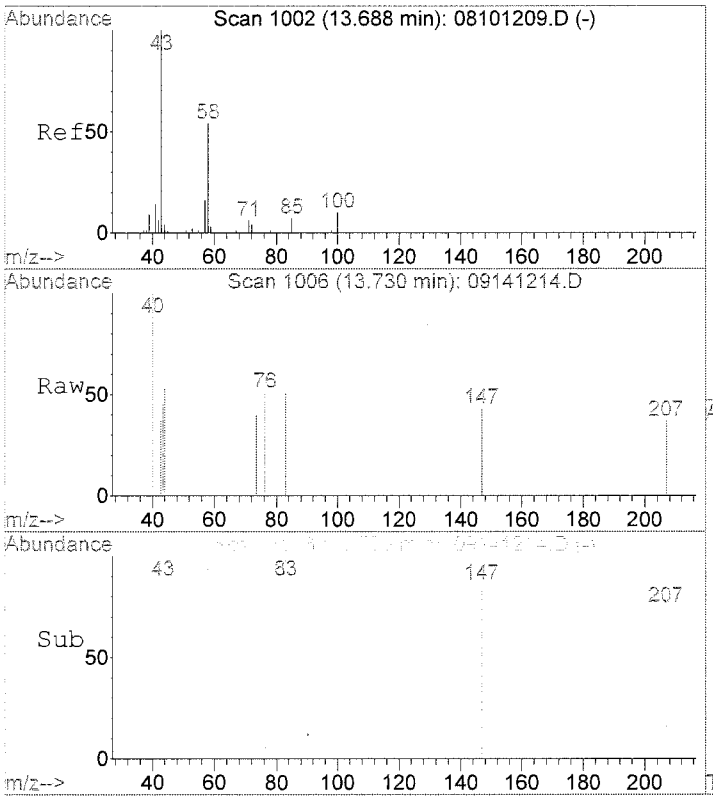


#41
Trichloroethene
Concen: 0.16 ug/L
RT: 11.47 min Scan# 776
Delta R.T. -0.02 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 95 Resp: 840

Ion	Ratio	Lower	Upper
95	100		
130	154.5	87.3	130.9#
132	94.8	84.2	126.4
97	73.6	54.2	81.4

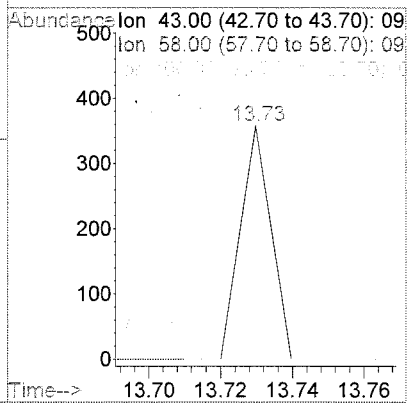


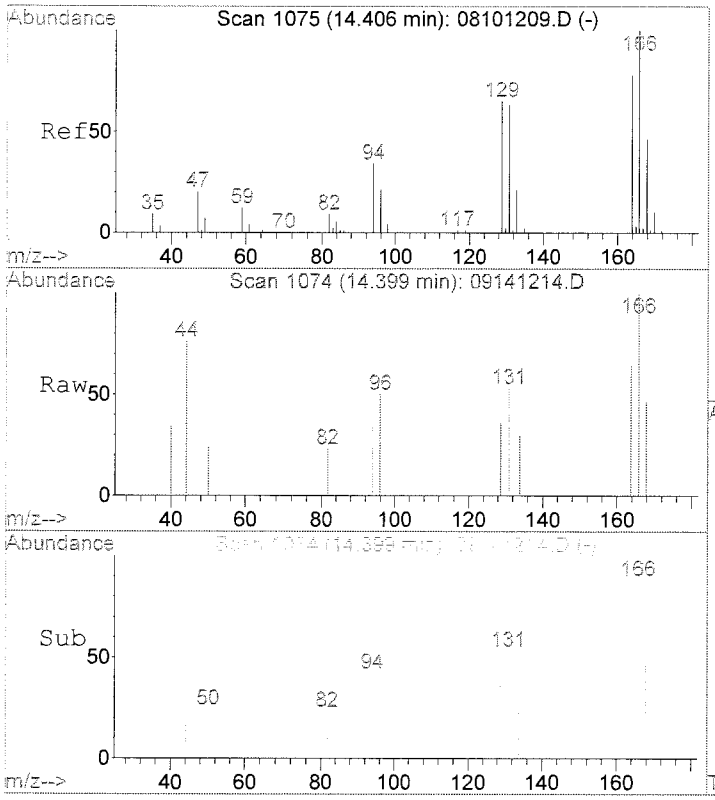


#52
2-Hexanone
Concen: 0.10 ug/L
RT: 13.73 min Scan# 1006
Delta R.T. 0.04 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 43 Resp: 211

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#

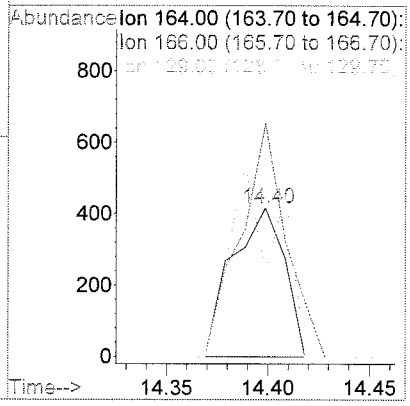


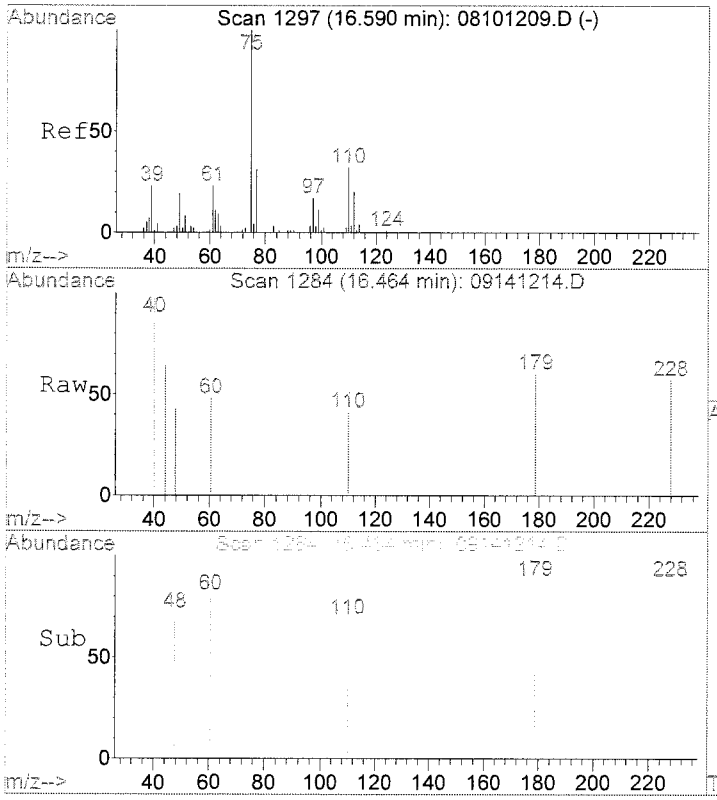


#55
Tetrachloroethene
Concen: 0.15 ug/L
RT: 14.40 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion:164 Resp: 747

Ion	Ratio	Lower	Upper
164	100		
166	136.9	102.1	153.1
129	117.9	66.5	99.7#

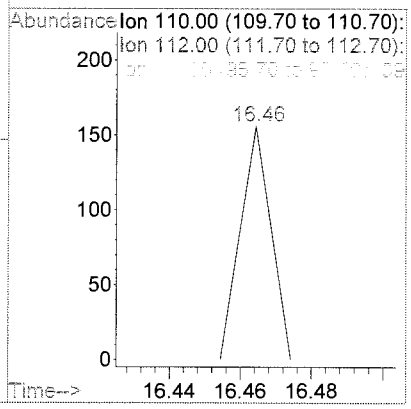


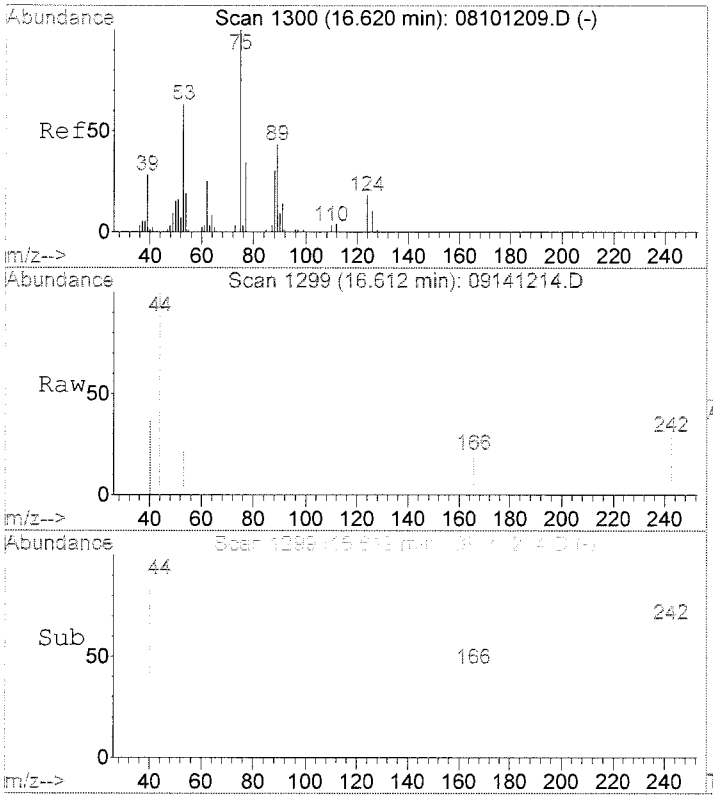


#66
1,2,3-Trichloropropane
Concen: 0.13 ug/L
RT: 16.46 min Scan# 1284
Delta R.T. -0.13 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion:110 Resp: 92

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

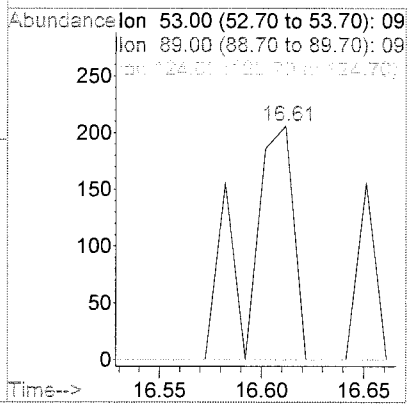




#67
trans-1,4-Dichloro-2-butene
Concen: 1.46 ug/L
RT: 16.61 min Scan# 1299
Delta R.T. -0.01 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 53 Resp: 323

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



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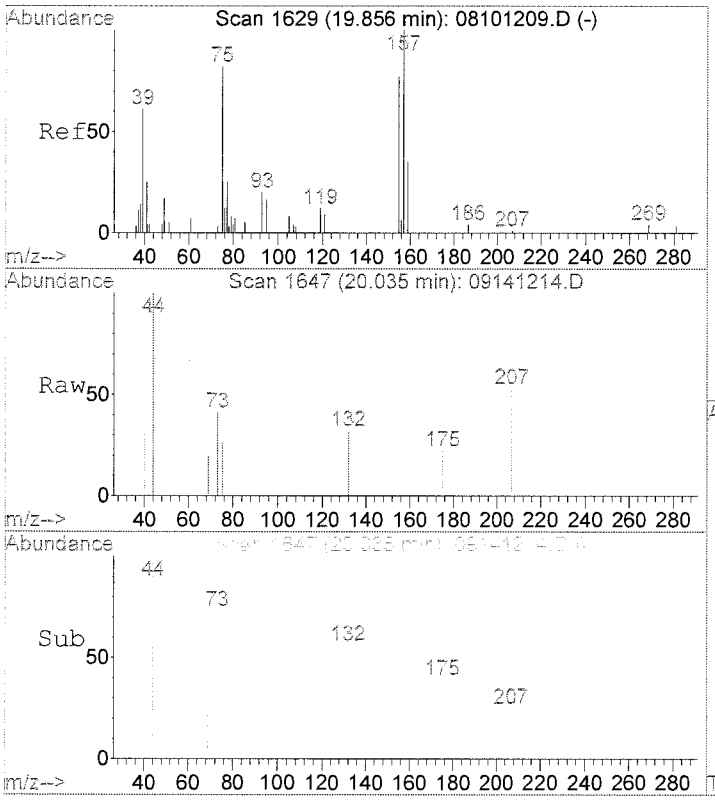
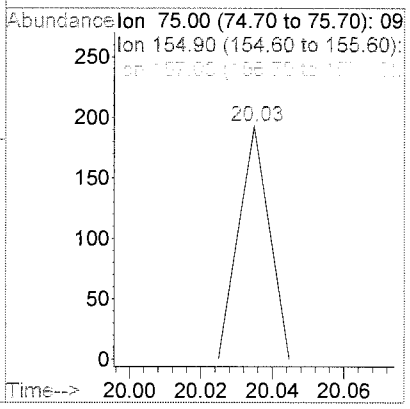


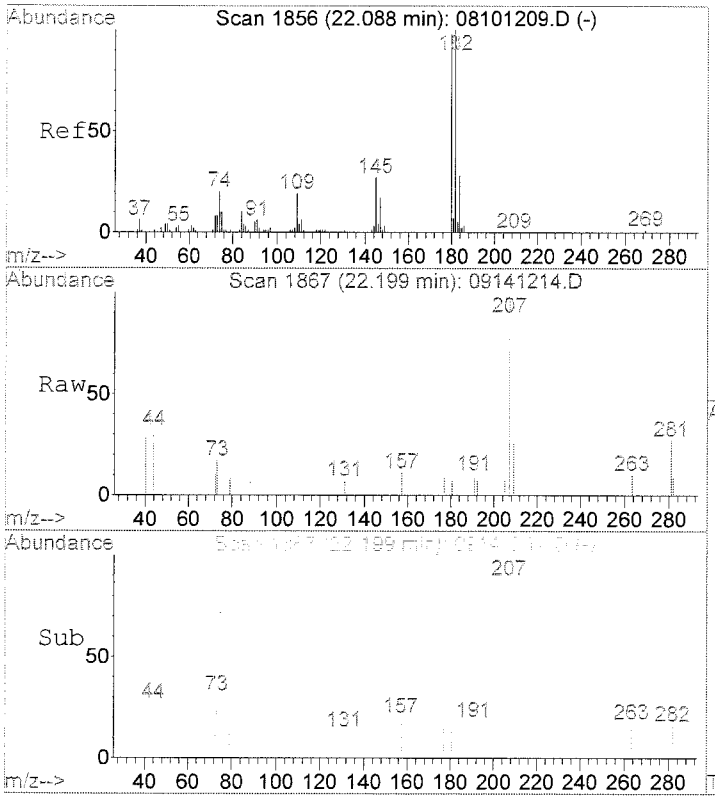
#82
1,2-Dibromo-3-chloropropane
Concen: 0.57 ug/L
RT: 20.03 min Scan# 1647
Delta R.T. 0.18 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion: 75 Resp: 114

Ion	Ratio	Lower	Upper
75	100		
155	80.7	82.6	124.0#
157	0.0	110.1	165.1#



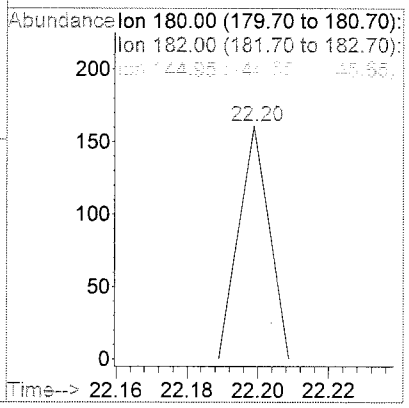
MM



#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.20 min Scan# 1867
Delta R.T. 0.11 min
Lab File: 09141214.D
Acq: 14 Sep 2012 1:28 pm

Tgt Ion:180 Resp: 95

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141215.D Vial: 15
Acq On : 14 Sep 2012 2:01 pm Operator: MNM
Sample : PVI0717-05 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:38 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	55465	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	282770	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	387104	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	286784	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	103089	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	129852	26.26 ug/L	-0.01
Spiked Amount 25.000			Recovery =	105.04%	
48) Toluene-d8	13.31	98	373688	24.44 ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.76%	
62) 4-Bromofluorobenzene	16.94	95	107801	24.32 ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.28%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	46743	1563.16 ug/L #	67
3) tert-Butanol (TBA)	6.83	59	356	1.10 ug/L #	77
9) Bromomethane	5.35	94	1386	0.25 ug/L #	20
12) Acetone	6.26	43	5390	4.53 ug/L #	68
15) Methylene Chloride	6.99	84	1153	0.23 ug/L #	68
23) 2-Butanone (MEK)	8.70	72	90	0.22 ug/L #	1
45) 4-Methyl-2-Pentanone (MIBK	12.47	43	415	0.15 ug/L #	37
47) 1,1,2-Trichloroethane	13.33	97	4028	1.47 ug/L #	1
52) 2-Hexanone	13.77	43	223	0.10 ug/L #	34
66) 1,2,3-Trichloropropane	16.49	110	93	0.14 ug/L #	22
82) 1,2-Dibromo-3-chloropropan	19.90	75	93	0.51 ug/L #	55

WRT

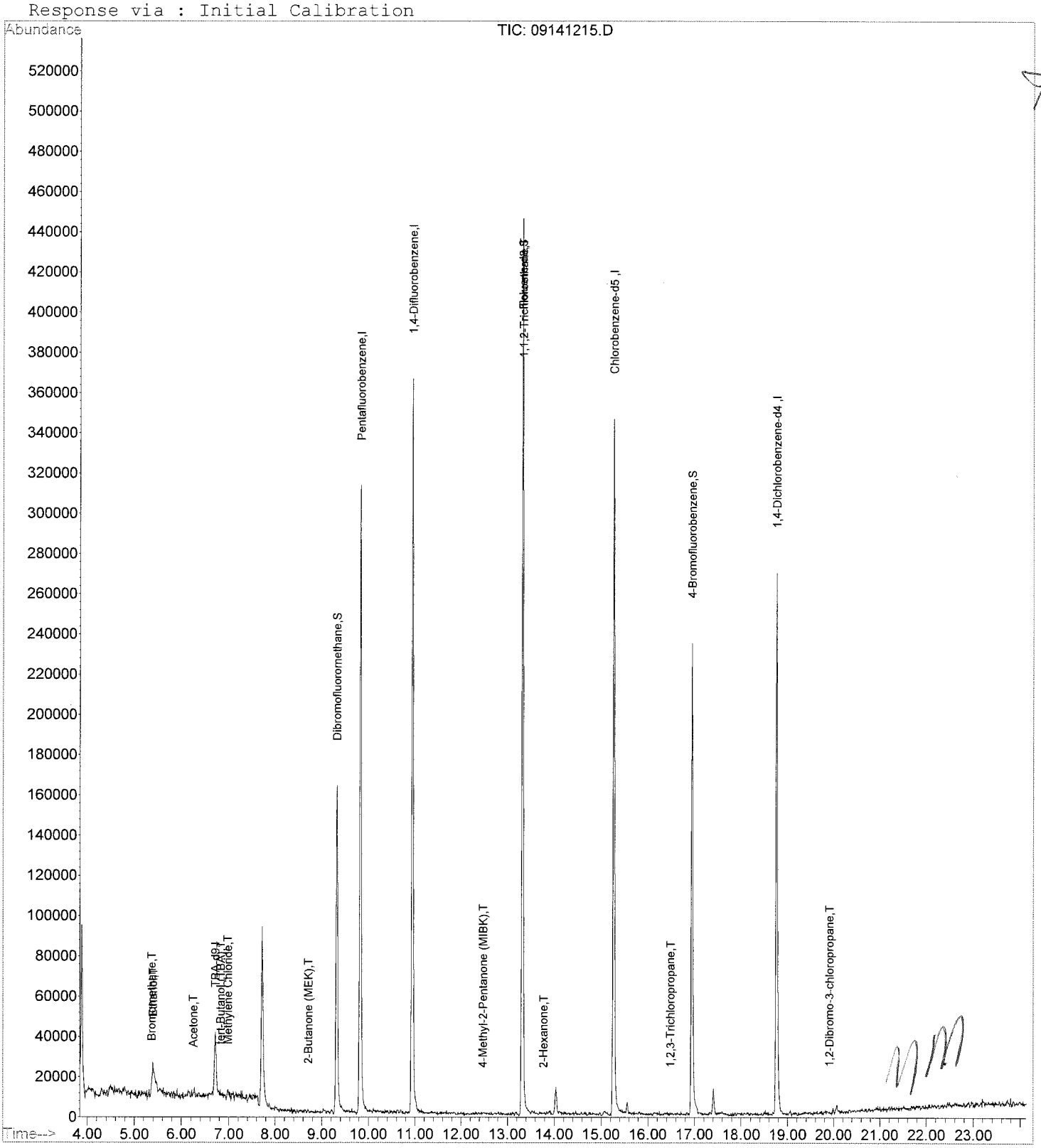
MM 9/17/12

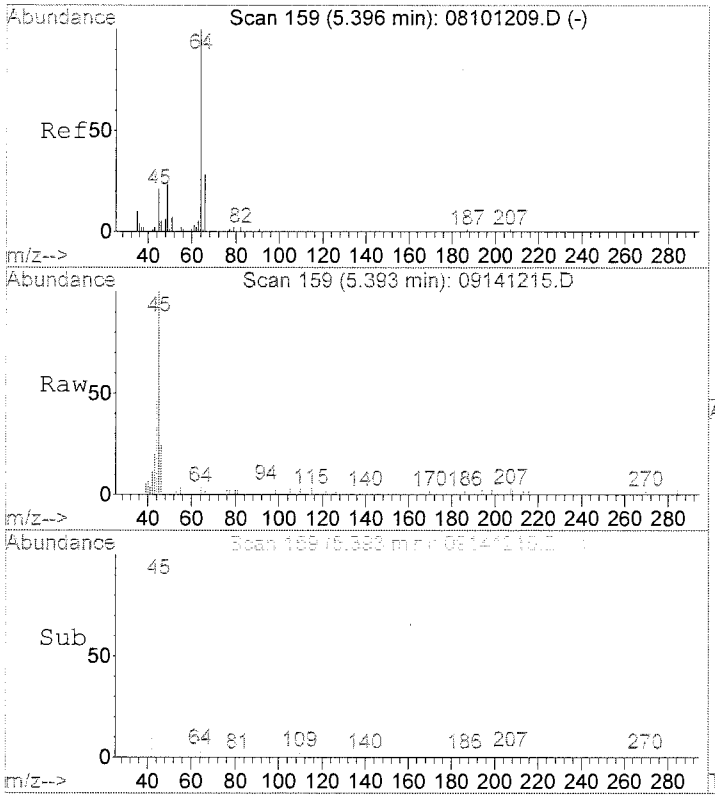
(#) = qualifier out of range (m) = manual integration
09141215.D 081012.M Fri Sep 14 14:38:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141215.D Vial: 15
Acq On : 14 Sep 2012 2:01 pm Operator: MNM
Sample : PVI0717-05 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 14:38 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

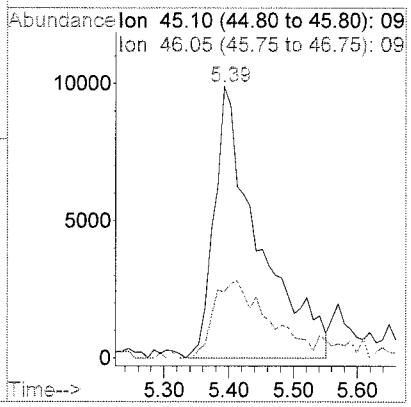


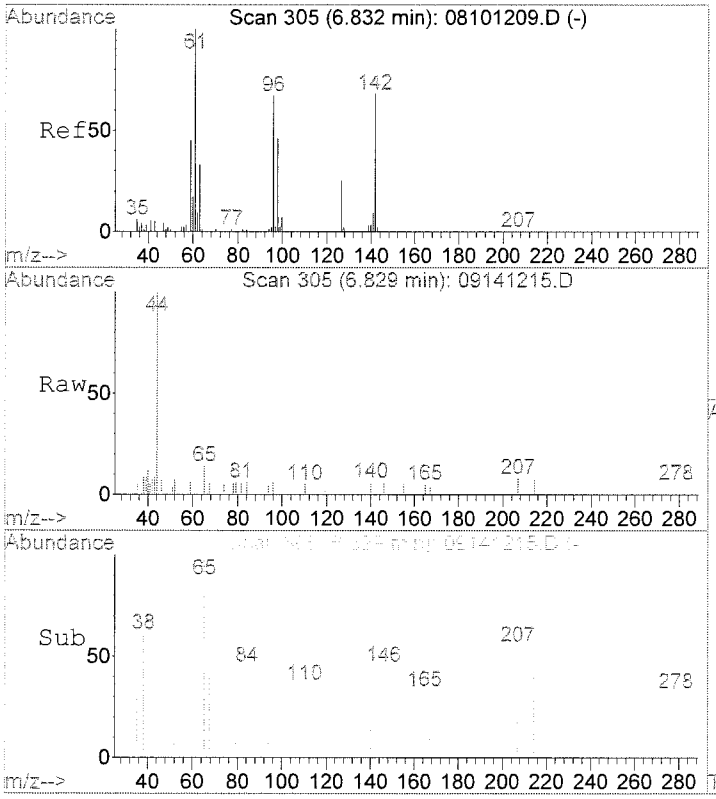


#2
Ethanol
Concen: 1563.16 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 45 Resp: 46743

Ion	Ratio	Lower	Upper
45	100		
46	35.0	39.9	79.9#

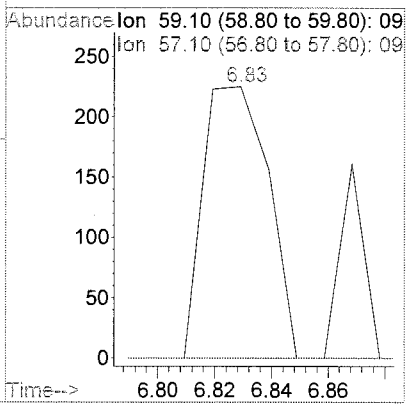


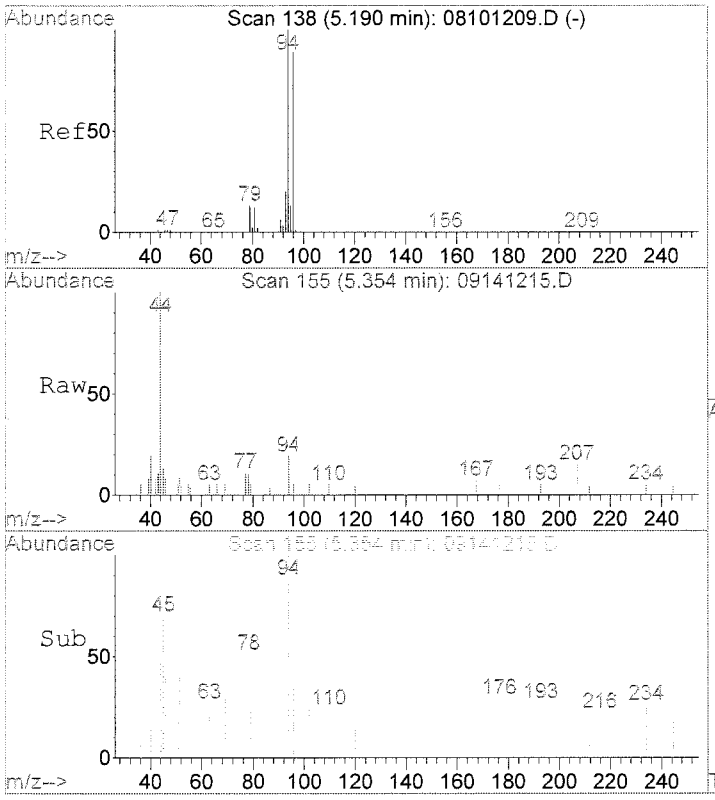


#3
tert-Butanol (TBA)
Concen: 1.10 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 59 Resp: 356

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#

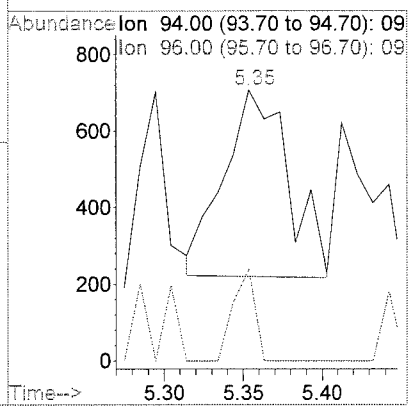


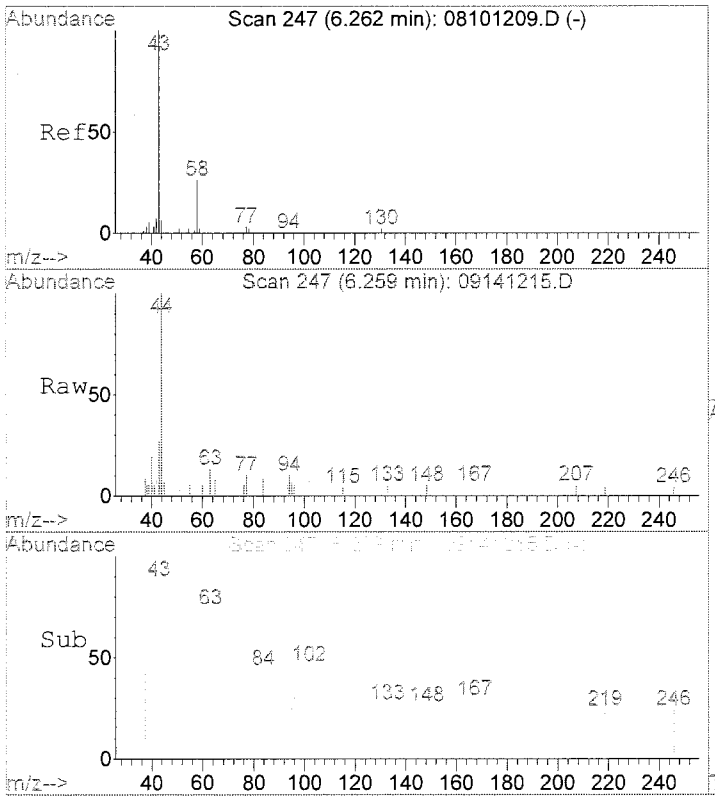


#9
Bromomethane
Concen: 0.25 ug/L
RT: 5.35 min Scan# 155
Delta R.T. 0.16 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 94 Resp: 1386

Ion	Ratio	Lower	Upper
94	100		
96	16.7	75.8	113.6#

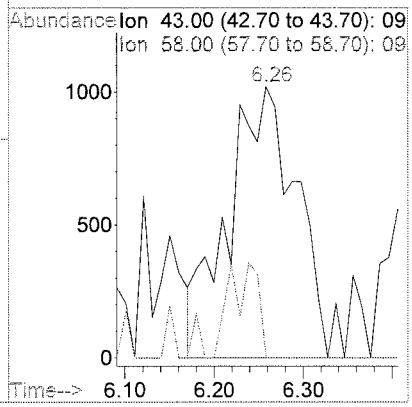


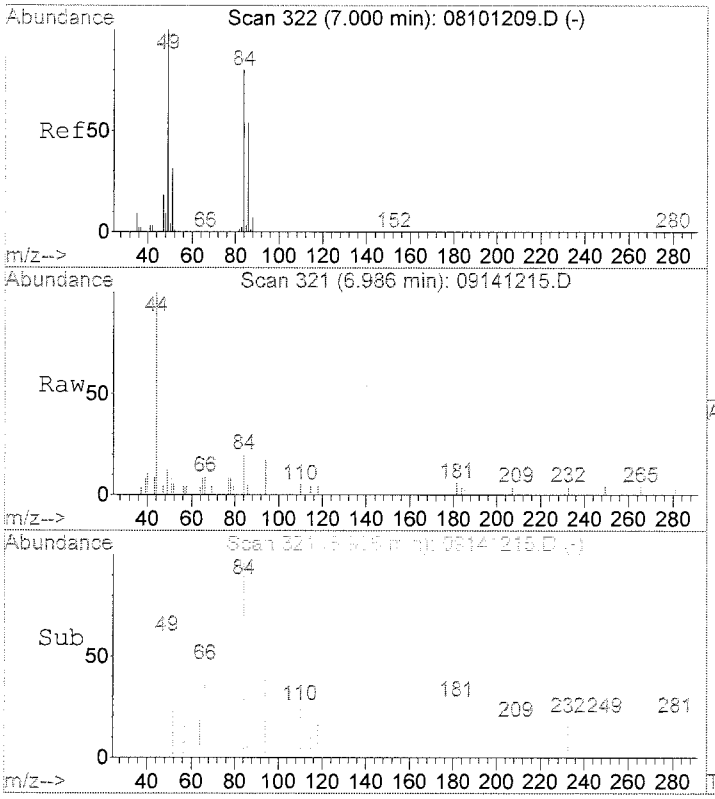


#12
Acetone
Concen: 4.53 ug/L
RT: 6.26 min Scan# 247
Delta R.T. -0.00 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 43 Resp: 5390

Ion	Ratio	Lower	Upper
43	100		
58	14.7	25.9	38.9#

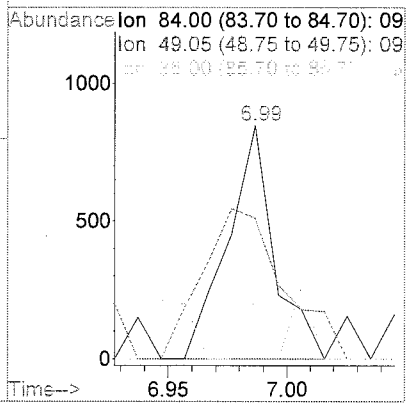


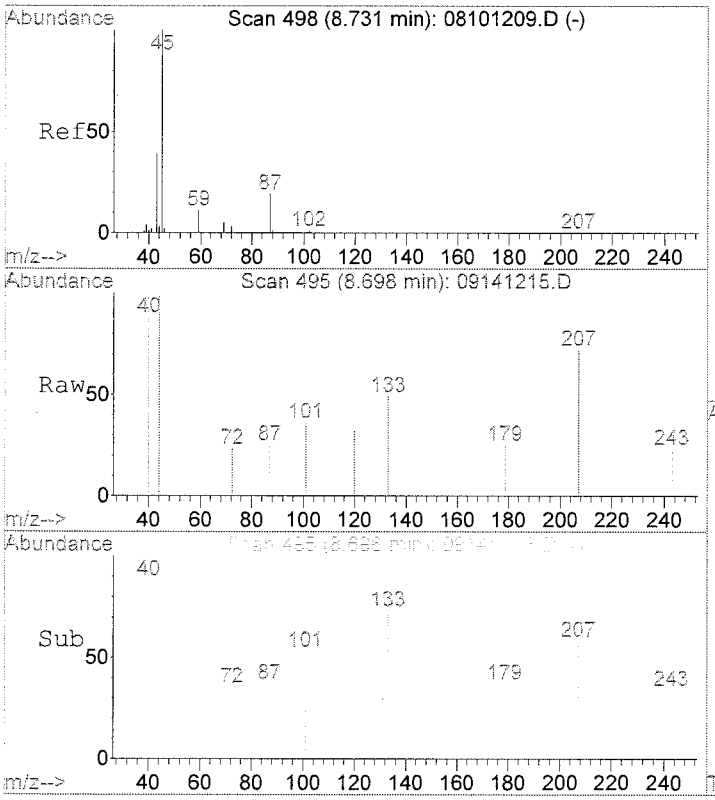


#15
Methylene Chloride
Concen: 0.23 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 84 Resp: 1153

Ion	Ratio	Lower	Upper
84	100		
49	113.3	103.4	155.0
86	10.9	52.0	78.0#

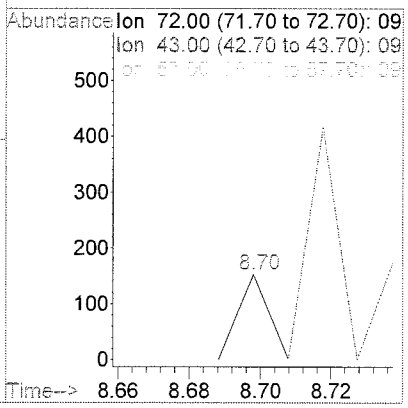


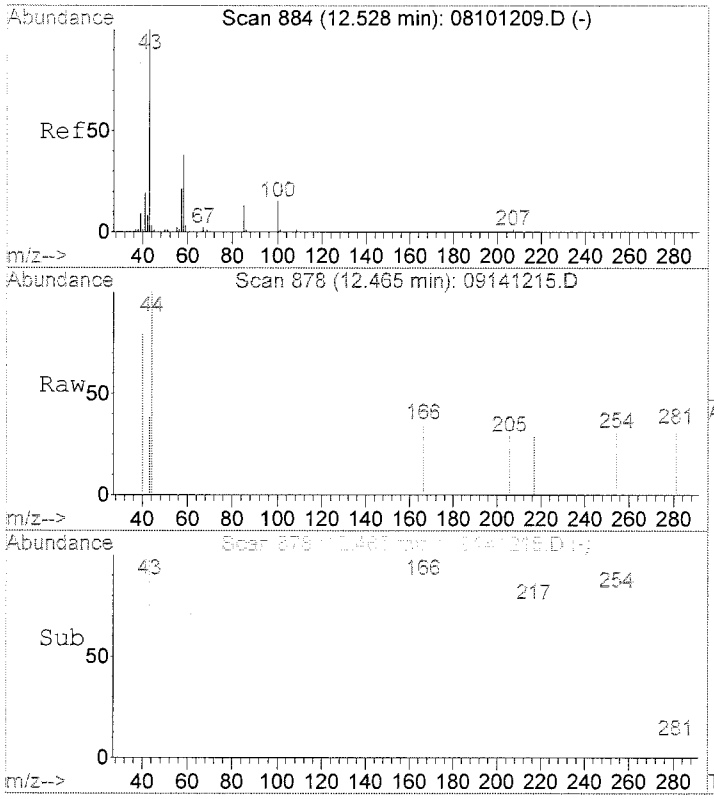


#23
2-Butanone (MEK)
Concen: 0.22 ug/L
RT: 8.70 min Scan# 495
Delta R.T. -0.03 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 72 Resp: 90

Ion	Ratio	Lower	Upper
72	100		
43	387.8	1366.5	2049.7#
57	0.0	0.0	0.0

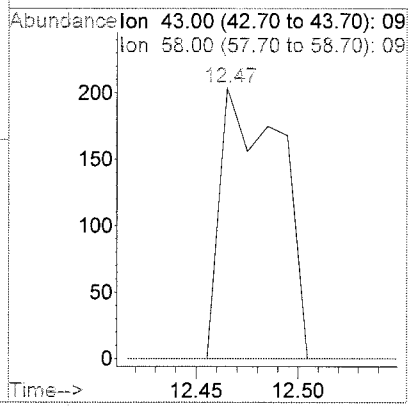


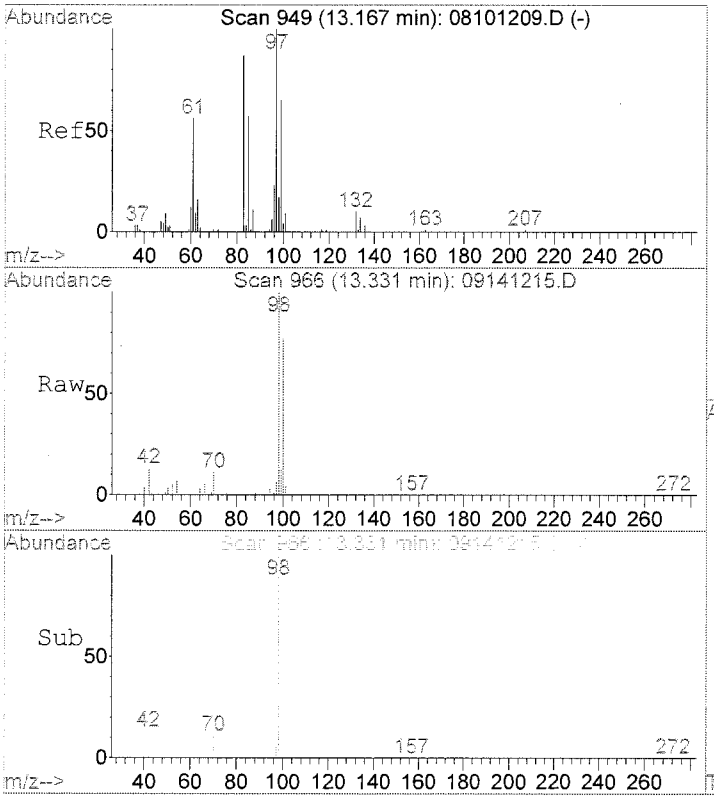


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.15 ug/L
RT: 12.47 min Scan# 878
Delta R.T. -0.06 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 43 Resp: 415

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

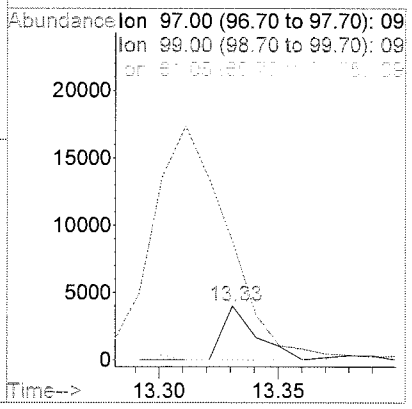


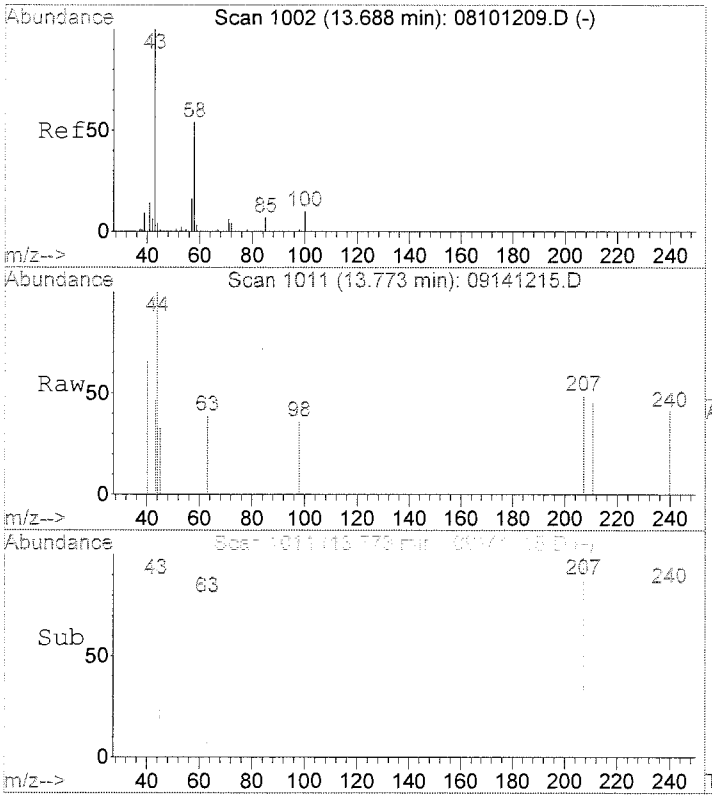


#47
1,1,2-Trichloroethane
Concen: 1.47 ug/L
RT: 13.33 min Scan# 966
Delta R.T. 0.16 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 97 Resp: 4028

Ion	Ratio	Lower	Upper
97	100		
99	971.9	51.8	77.6#
61	5.2	45.0	67.4#

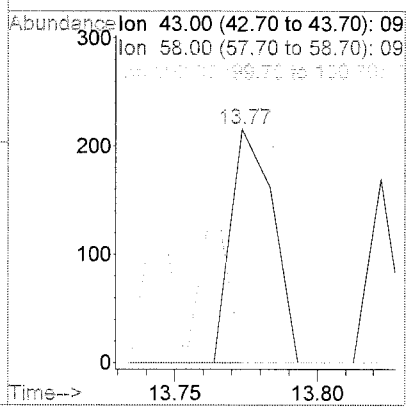


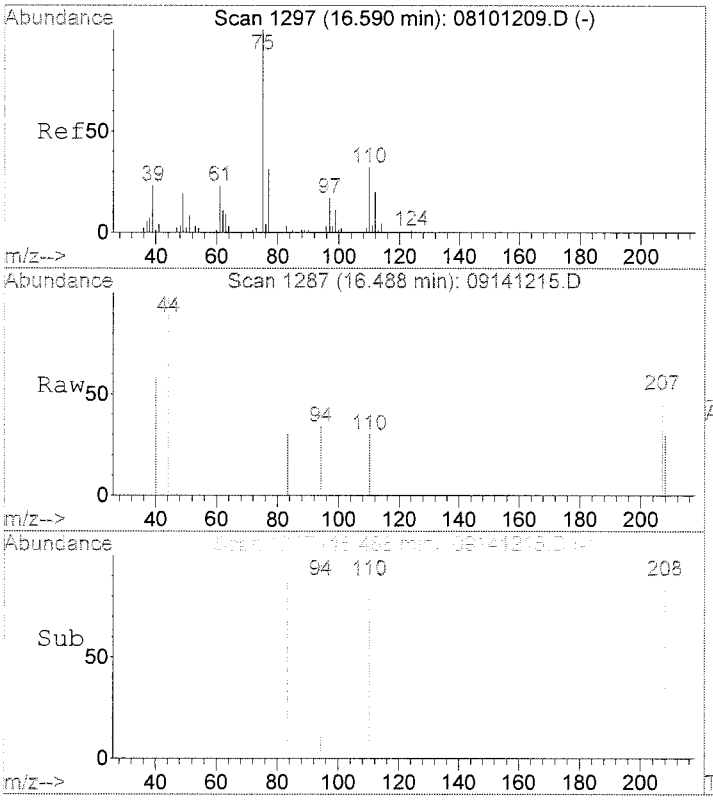


#52
2-Hexanone
Concen: 0.10 ug/L
RT: 13.77 min Scan# 1011
Delta R.T. 0.09 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 43 Resp: 223

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#

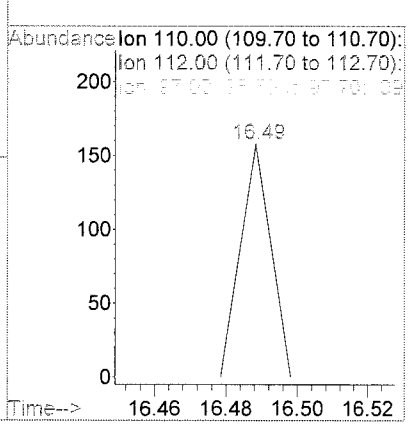


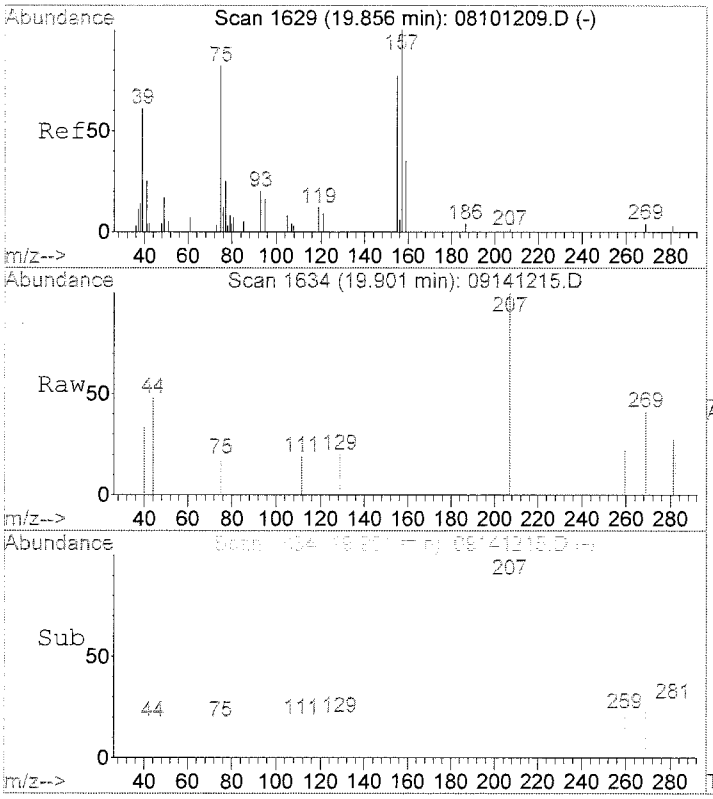


#66
1,2,3-Trichloropropane
Concen: 0.14 ug/L
RT: 16.49 min Scan# 1287
Delta R.T. -0.10 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion:110 Resp: 93

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

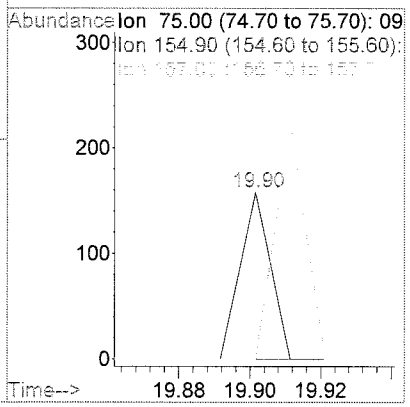




#82
1,2-Dibromo-3-chloropropane
Concen: 0.51 ug/L
RT: 19.90 min Scan# 1634
Delta R.T. 0.05 min
Lab File: 09141215.D
Acq: 14 Sep 2012 2:01 pm

Tgt Ion: 75 Resp: 93

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	139.8	110.1	165.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141216.D Vial: 16
Acq On : 14 Sep 2012 2:33 pm Operator: MNM
Sample : PVI0717-06 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	64634	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	276926	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	396981	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	288108	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	106902	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	131564	27.16 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 108.64%	
48) Toluene-d8	13.31	98	388466	24.78 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 99.12%	
62) 4-Bromofluorobenzene	16.94	95	107423	24.13 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.52%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	44519	1277.59 ug/L #	65
9) Bromomethane	5.29	94	1284	0.23 ug/L #	2
12) Acetone	6.38	43	751	0.64 ug/L	89
23) 2-Butanone (MEK)	8.75	72	90	0.23 ug/L #	1
32) 1,2-Dichloroethane	9.83	62	1156	0.27 ug/L #	42
37) Carbon Tetrachloride	10.60	117	47910	7.20 ug/L	93
41) Trichloroethene	11.47	95	29553	5.20 ug/L	99
51) 1,3-Dichloropropane	13.31	76	3299	0.64 ug/L	43
55) Tetrachloroethene	14.40	164	25694	5.06 ug/L	97
66) 1,2,3-Trichloropropane	16.71	110	218	0.32 ug/L #	22
67) trans-1,4-Dichloro-2-buten	16.67	53	97	1.15 ug/L #	54
82) 1,2-Dibromo-3-chloropropan	19.87	75	106	0.54 ug/L #	1

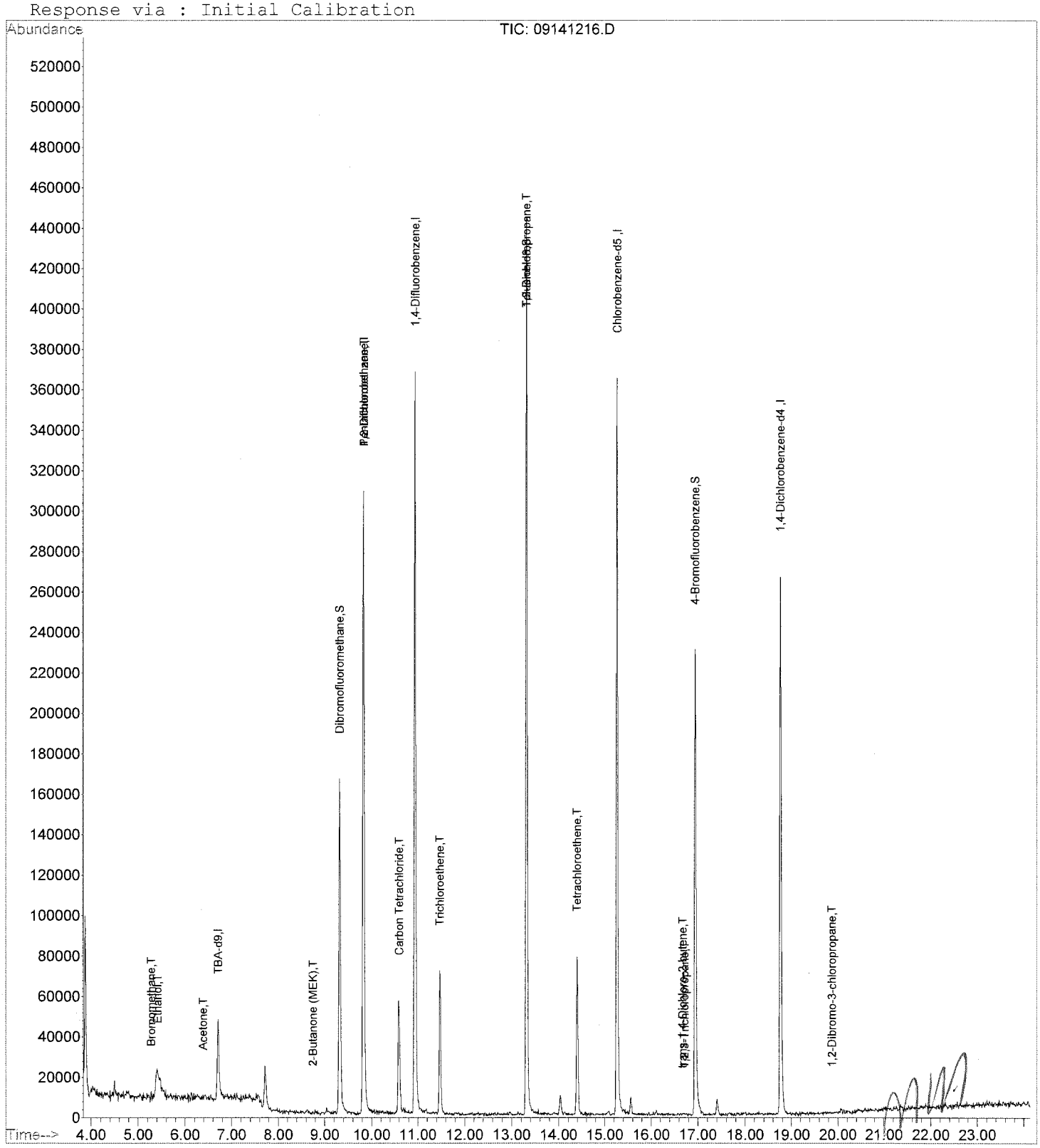
MM 9/17/12

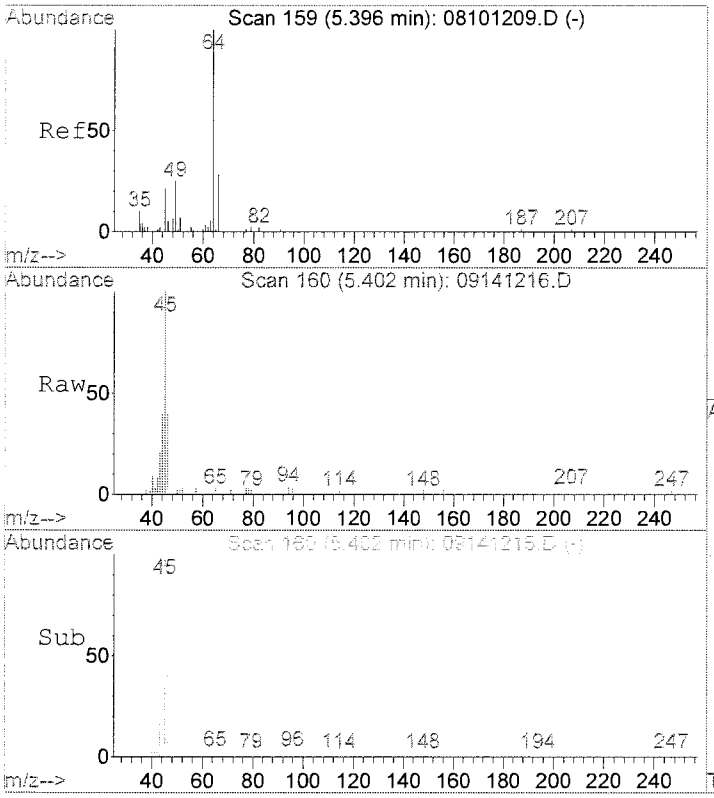
(#) = qualifier out of range (m) = manual integration
09141216.D 081012.M Mon Sep 17 05:15:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141216.D Vial: 16
Acq On : 14 Sep 2012 2:33 pm Operator: MNM
Sample : PVI0717-06 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:15 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

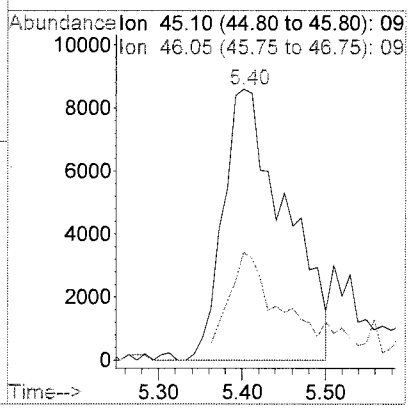


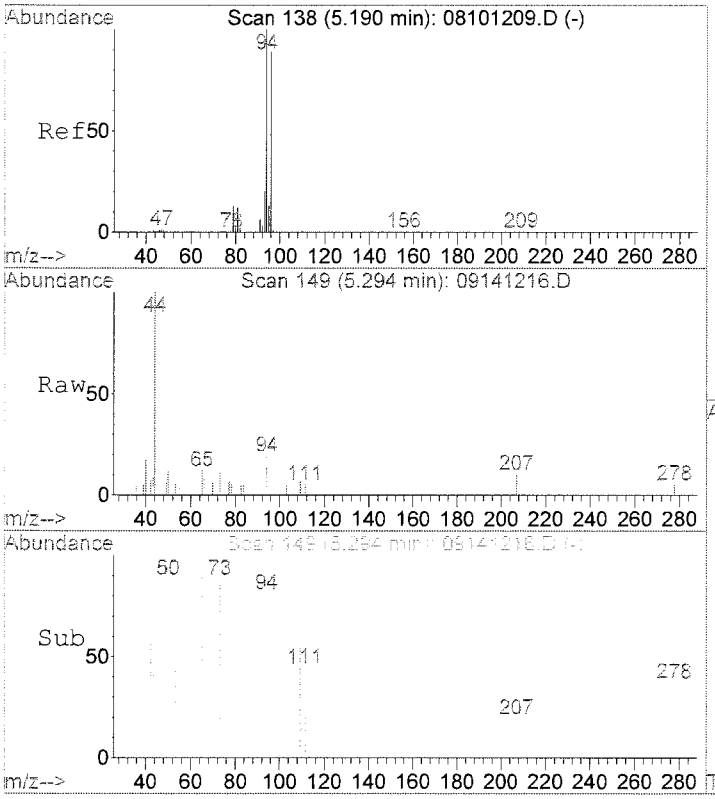


#2
Ethanol
Concen: 1277.59 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 45 Resp: 44519

Ion	Ratio	Lower	Upper
45	100		
46	33.4	39.9	79.9#

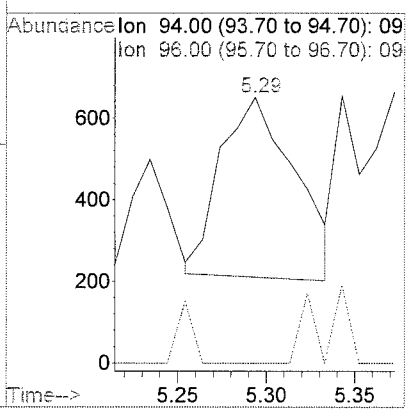


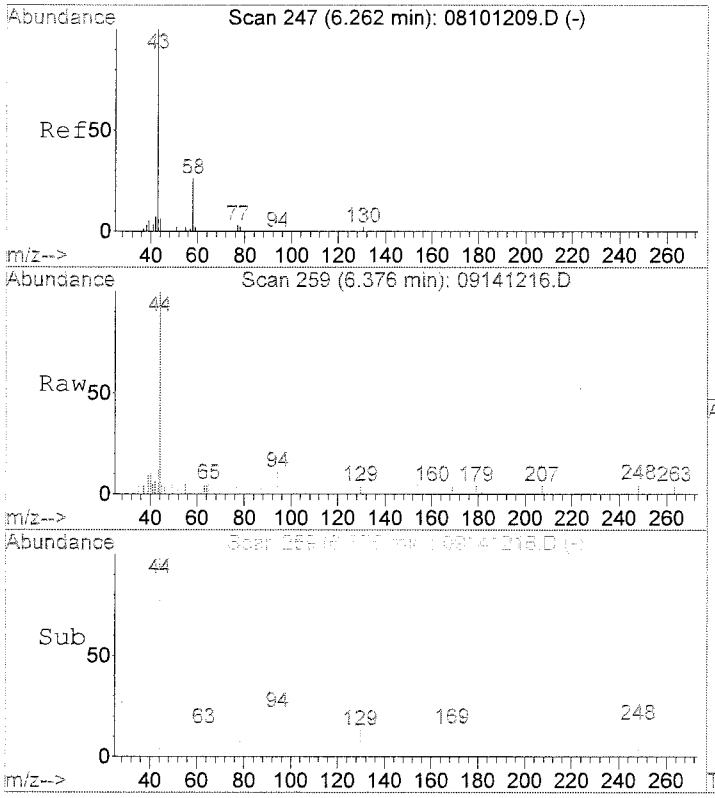


#9
Bromomethane
Concen: 0.23 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 94 Resp: 1284

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

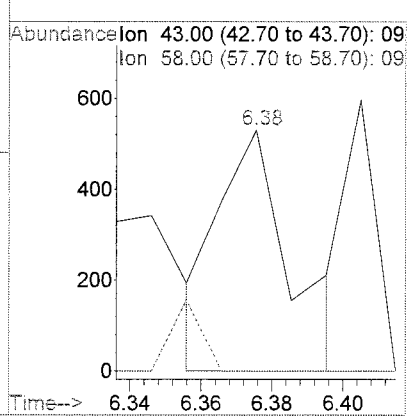


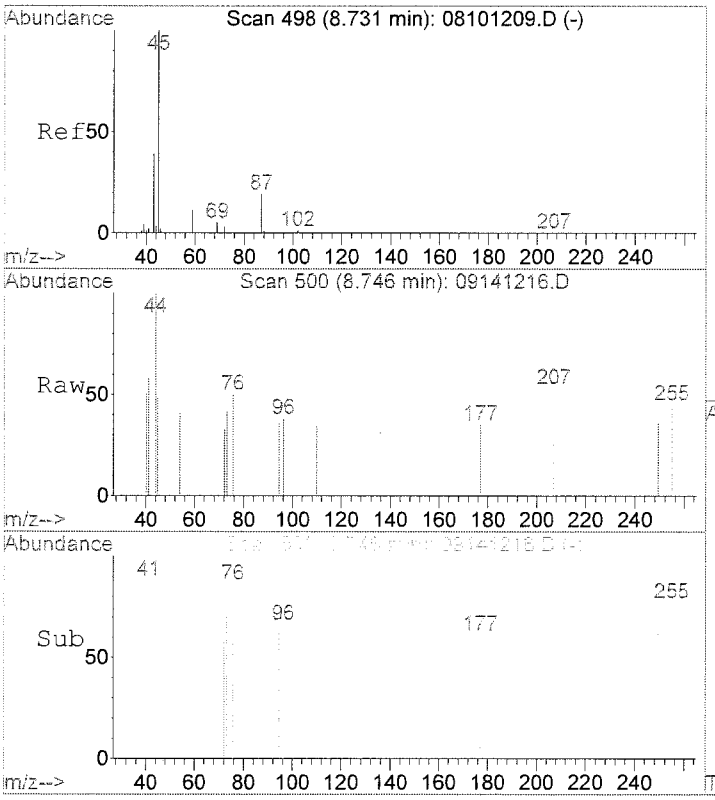


#12
Acetone
Concen: 0.64 ug/L
RT: 6.38 min Scan# 259
Delta R.T. 0.11 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 43 Resp: 751

Ion	Ratio	Lower	Upper
43	100		
58	26.1	25.9	38.9

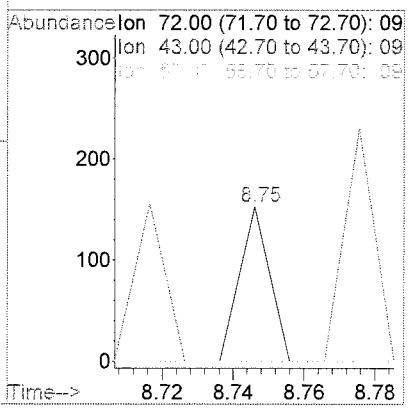




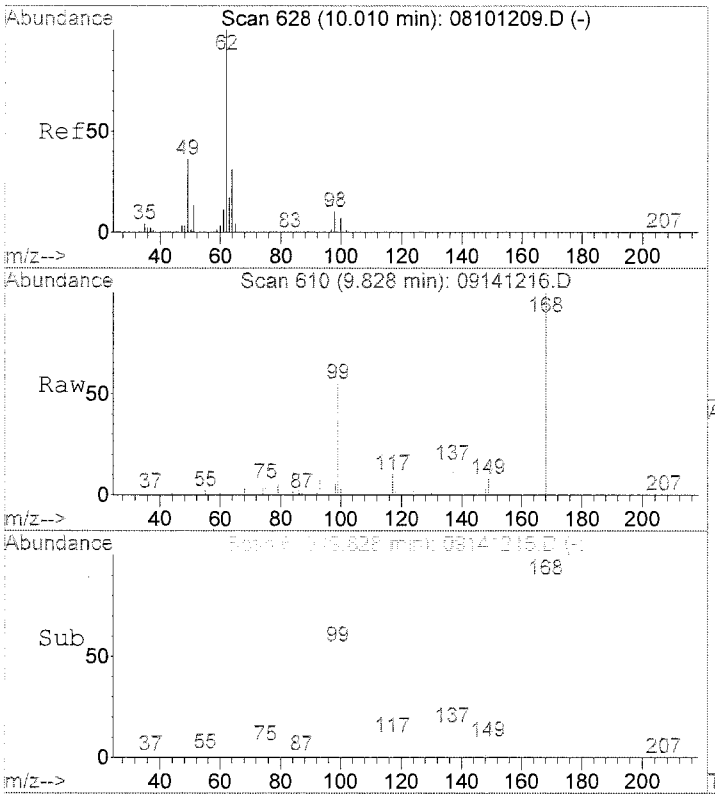
#23
2-Butanone (MEK)
Concen: 0.23 ug/L
RT: 8.75 min Scan# 500
Delta R.T. 0.02 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 72 Resp: 90

Ion	Ratio	Lower	Upper
72	100		
43	377.8	1366.5	2049.7#
57	297.8	0.0	0.0#



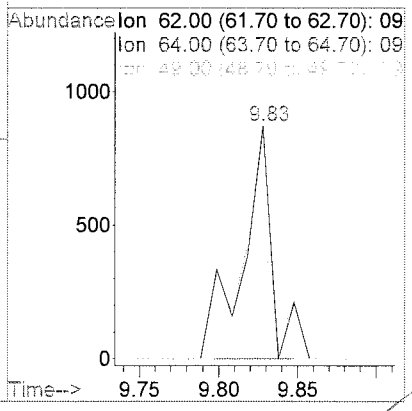
MM.

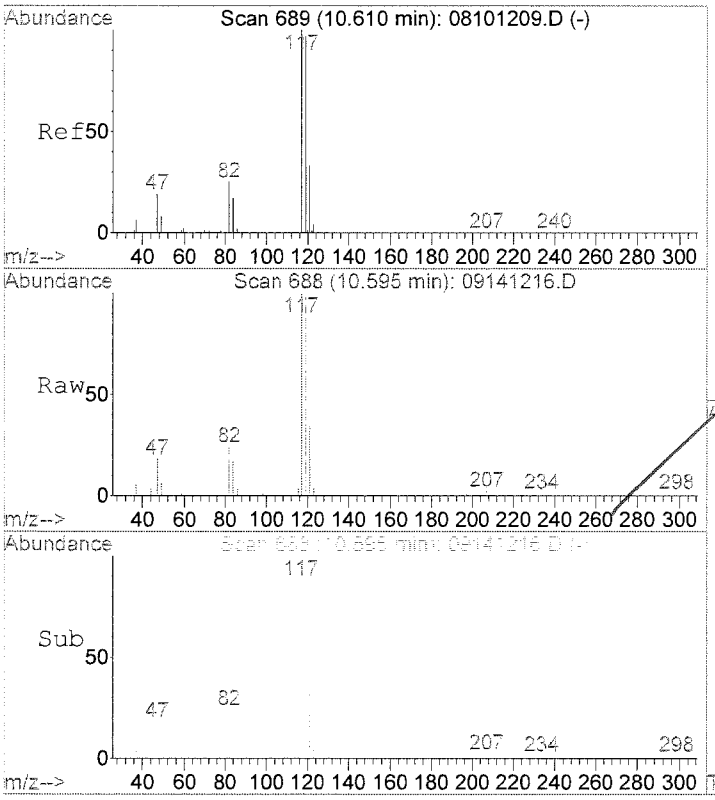


#32
1,2-Dichloroethane
Concen: 0.27 ug/L
RT: 9.83 min Scan# 610
Delta R.T. -0.18 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 62 Resp: 1156

Ion	Ratio	Lower	Upper
62	100		
64	0.0	26.4	39.6#
49	68.1	28.0	42.0#

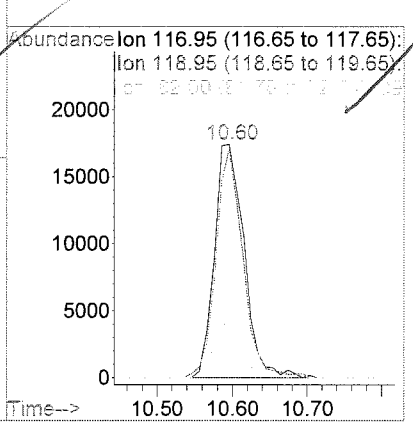


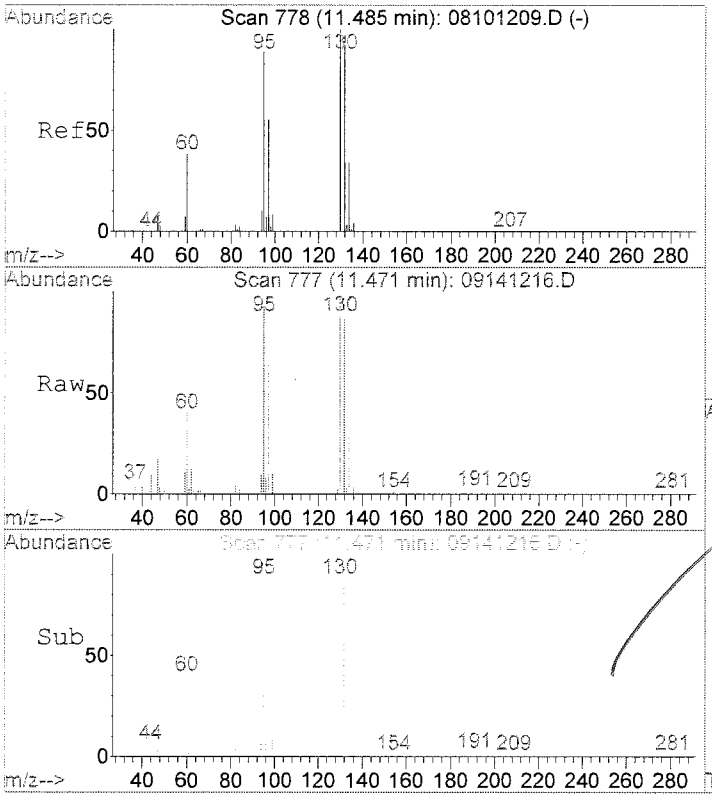


#37
Carbon Tetrachloride
Concen: 7.20 ug/L
RT: 10.60 min Scan# 688
Delta R.T. -0.01 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion:117 Resp: 47910

Ion	Ratio	Lower	Upper
117	100		
119	89.1	77.9	116.9
82	24.7	19.6	29.4

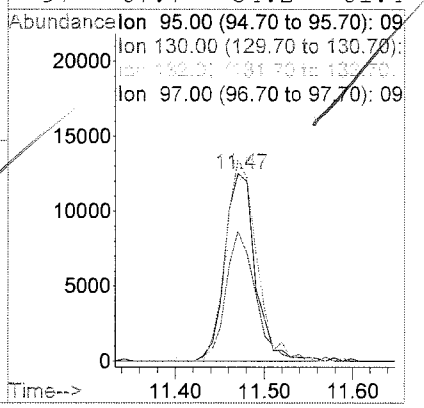


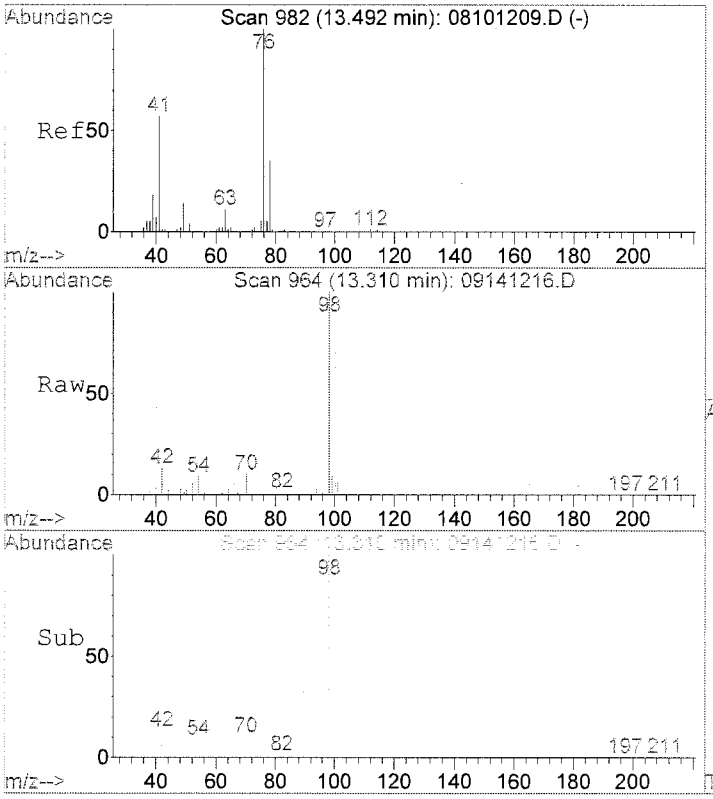


#41
Trichloroethene
Concen: 5.20 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 95 Resp: 29553

Ion	Ratio	Lower	Upper
95	100		
130	109.4	87.3	130.9
132	104.2	84.2	126.4
97	67.7	54.2	81.4

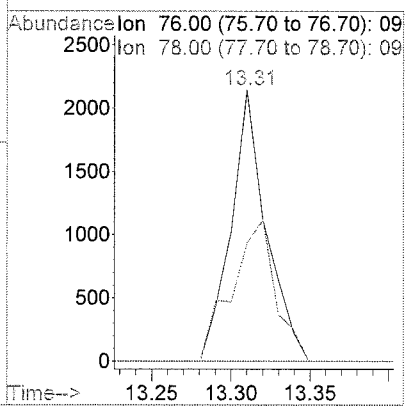


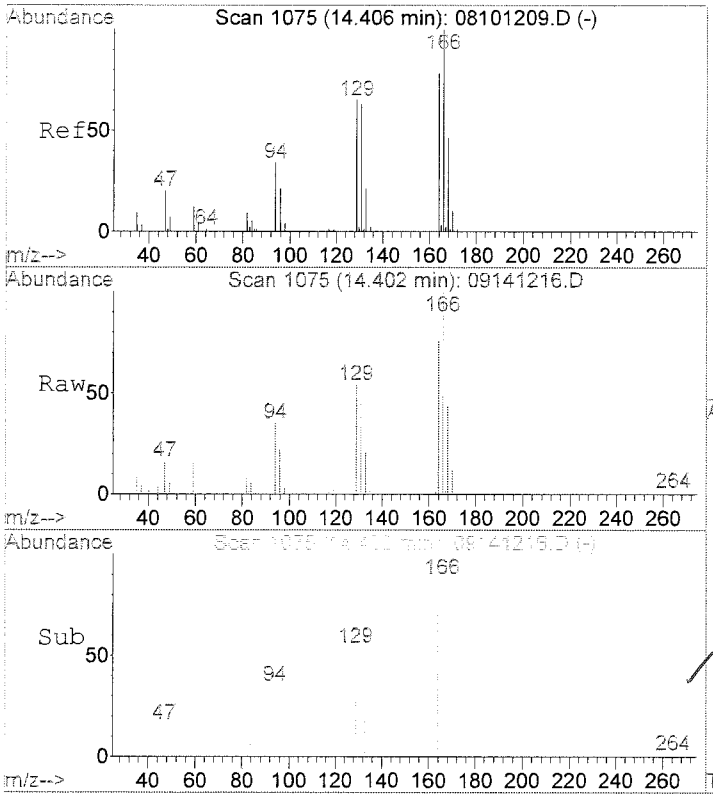


#51
1,3-Dichloropropane
Concen: 0.64 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 76 Resp: 3299

Ion	Ratio	Lower	Upper
76	100		
78	64.7	26.1	39.1#

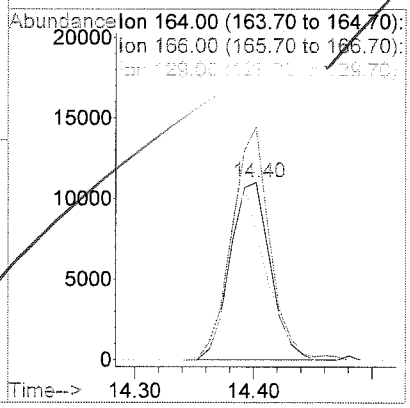




#55
Tetrachloroethene
Concen: 5.06 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion:164 Resp: 25694

Ion	Ratio	Lower	Upper
164	100		
166	124.4	102.1	153.1
129	87.1	66.5	99.7



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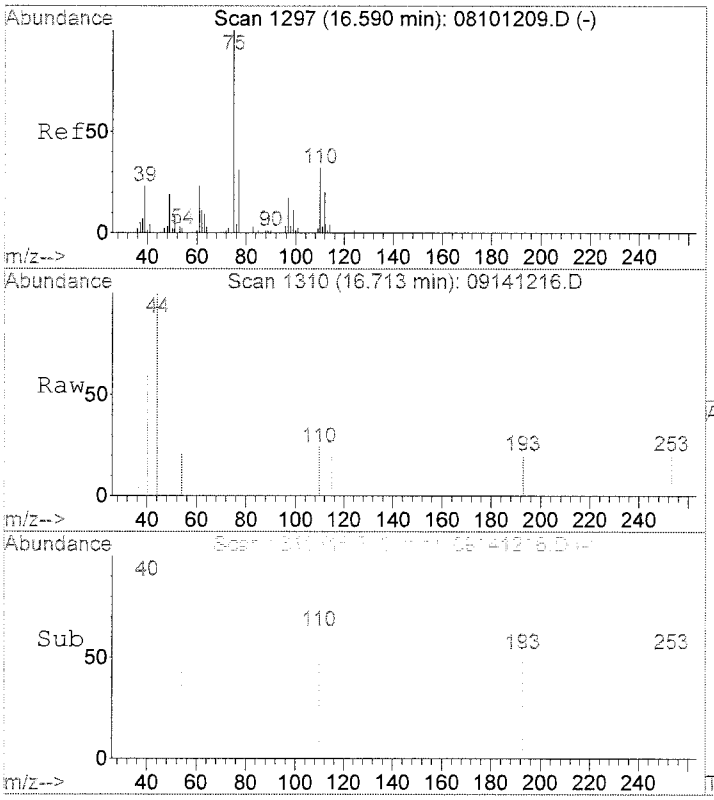
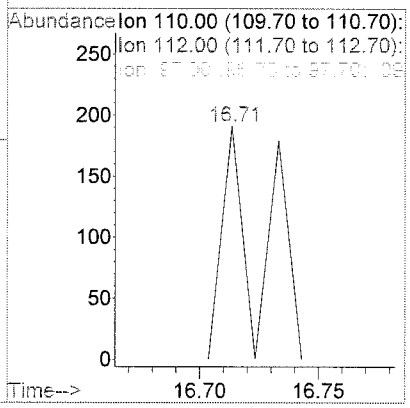


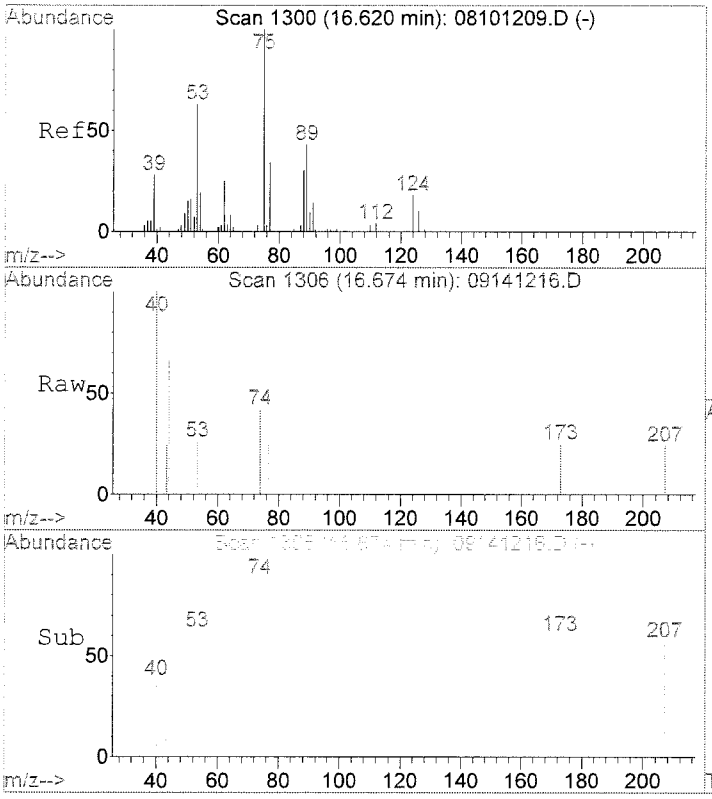
#66
1,2,3-Trichloropropane
Concen: 0.32 ug/L
RT: 16.71 min Scan# 1310
Delta R.T. 0.12 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion:110 Resp: 218

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#



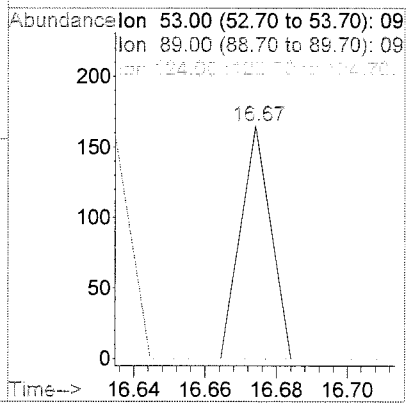
MM

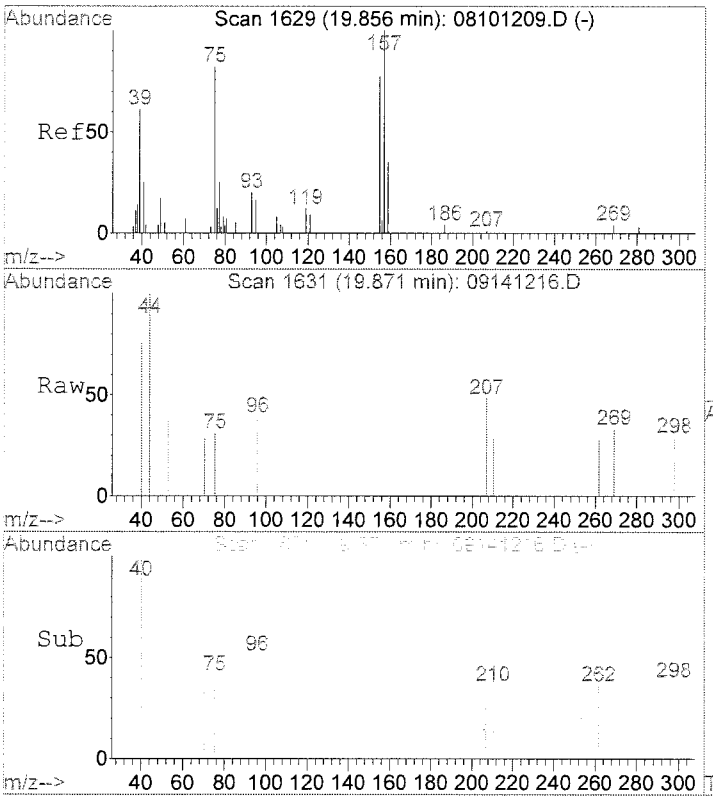


#67
trans-1,4-Dichloro-2-butene
Concen: 1.15 ug/L
RT: 16.67 min Scan# 1306
Delta R.T. 0.06 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 53 Resp: 97

Ion	Ratio	Lower	Upper
53	100		
89	96.9	50.5	75.7#
124	0.0	21.8	32.8#

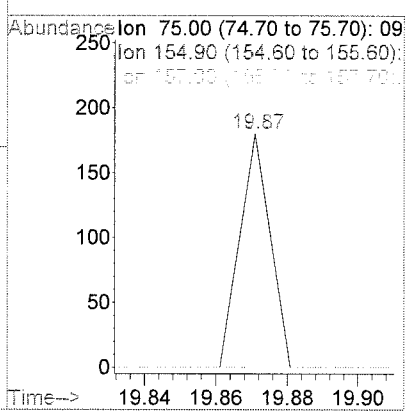




#82
1,2-Dibromo-3-chloropropane
Concen: 0.54 ug/L
RT: 19.87 min Scan# 1631
Delta R.T. 0.02 min
Lab File: 09141216.D
Acq: 14 Sep 2012 2:33 pm

Tgt Ion: 75 Resp: 106

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141217.D Vial: 17
Acq On : 14 Sep 2012 3:06 pm Operator: MNM
Sample : PVI0717-07 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	57930	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	272107	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	392488	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.26	117	276052	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	104520	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	130305	27.38 ug/L	0.00
Spiked Amount 25.000			Recovery	= 109.52%	
48) Toluene-d8	13.31	98	376430	24.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.16%	
62) 4-Bromofluorobenzene	16.94	95	111664	26.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.72%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	44617	1428.57 ug/L #	61
3) tert-Butanol (TBA)	6.89	59	112	0.33 ug/L #	1
8) 1,3-Butadiene	4.80	54	669	0.14 ug/L #	71
9) Bromomethane	5.12	94	1981	0.36 ug/L #	2
12) Acetone	6.26	43	3299	2.88 ug/L #	61
23) 2-Butanone (MEK)	8.63	72	114	0.29 ug/L #	1
27) Chloroform	9.16	83	2723	0.32 ug/L #	88 J
32) 1,2-Dichloroethane	9.82	62	1021	0.25 ug/L #	6
34) (TAME) tert-Amyl methyl et	10.94	73	3953	0.41 ug/L #	19
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	526	0.18 ug/L #	37
47) 1,1,2-Trichloroethane	13.32	97	5380	1.94 ug/L #	1 WNT
51) 1,3-Dichloropropane	13.31	76	4946	1.01 ug/L	93
52) 2-Hexanone	13.70	43	195	0.10 ug/L #	94
67) trans-1,4-Dichloro-2-buten	16.69	53	96	1.16 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	20.03	75	90	0.49 ug/L #	84
86) 1,2,3-Trichlorobenzene	21.91	180	98	Below Cal #	1

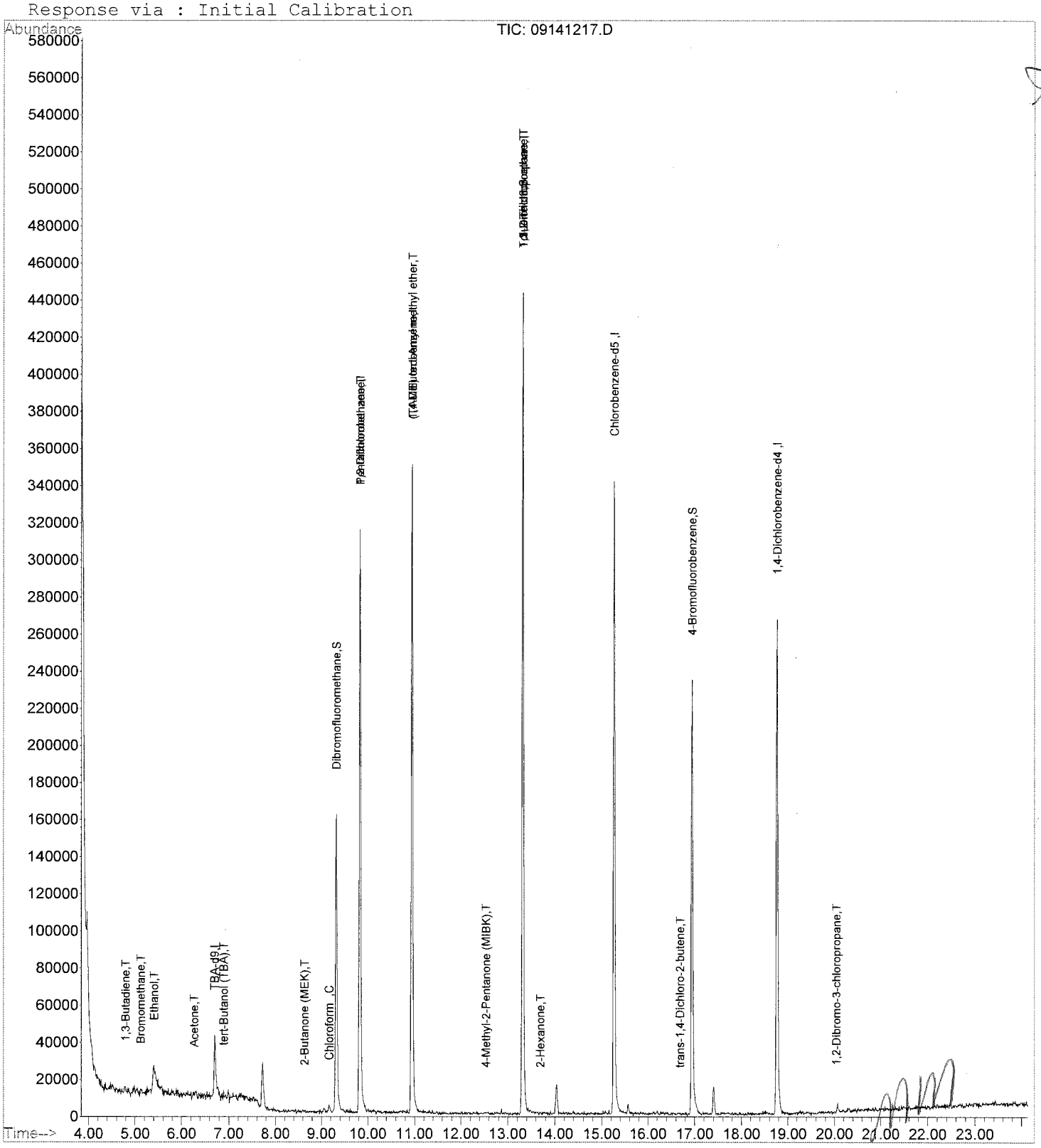
MM 9/17/12

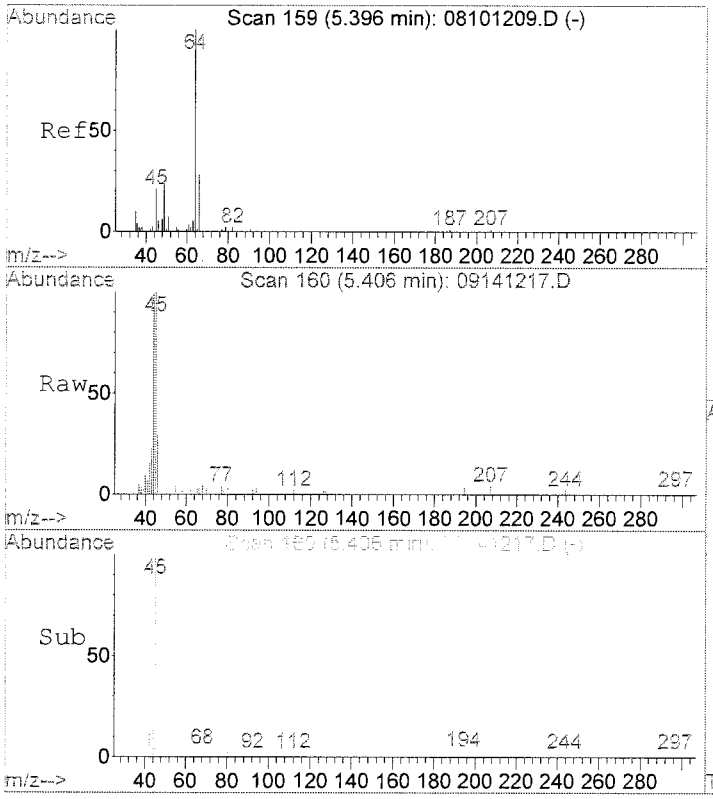
(#) = qualifier out of range (m) = manual integration
09141217.D 081012.M Mon Sep 17 05:16:28 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141217.D Vial: 17
Acq On : 14 Sep 2012 3:06 pm Operator: MNM
Sample : PVI0717-07 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

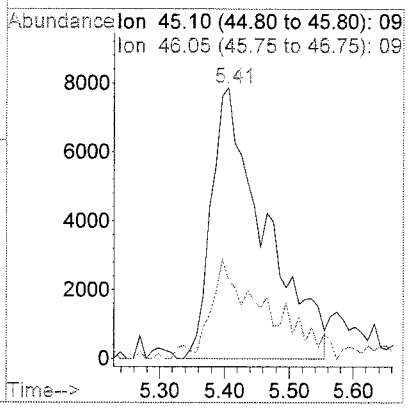


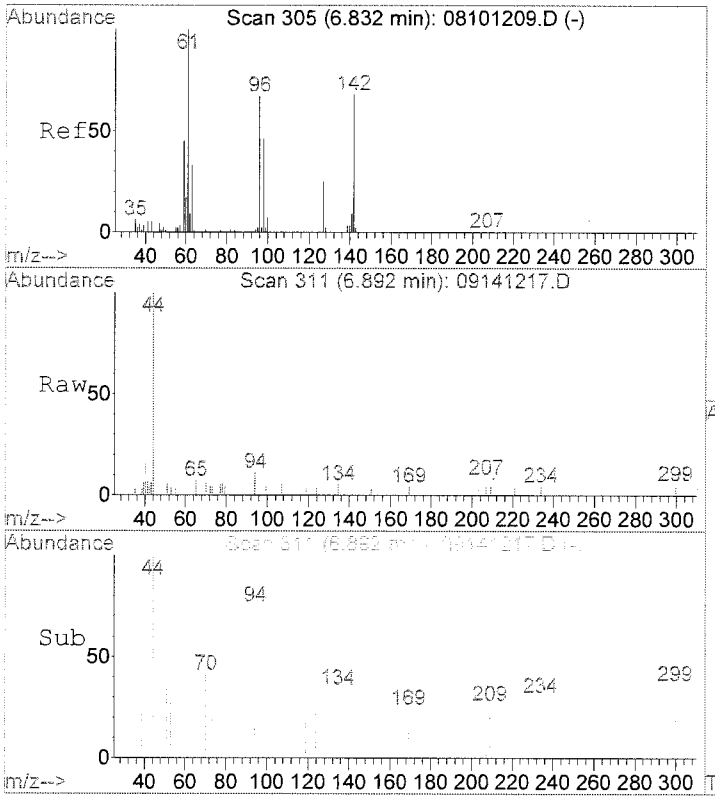


#2
Ethanol
Concen: 1428.57 ug/L
RT: 5.41 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 45 Resp: 44617

Ion	Ratio	Lower	Upper
45	100		
46	30.3	39.9	79.9#

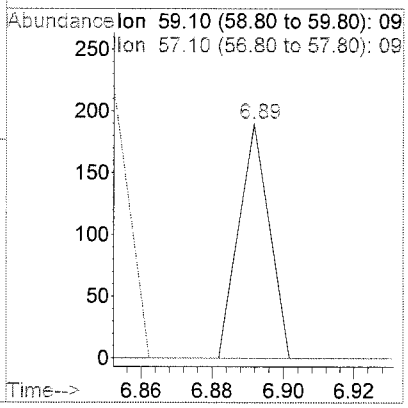


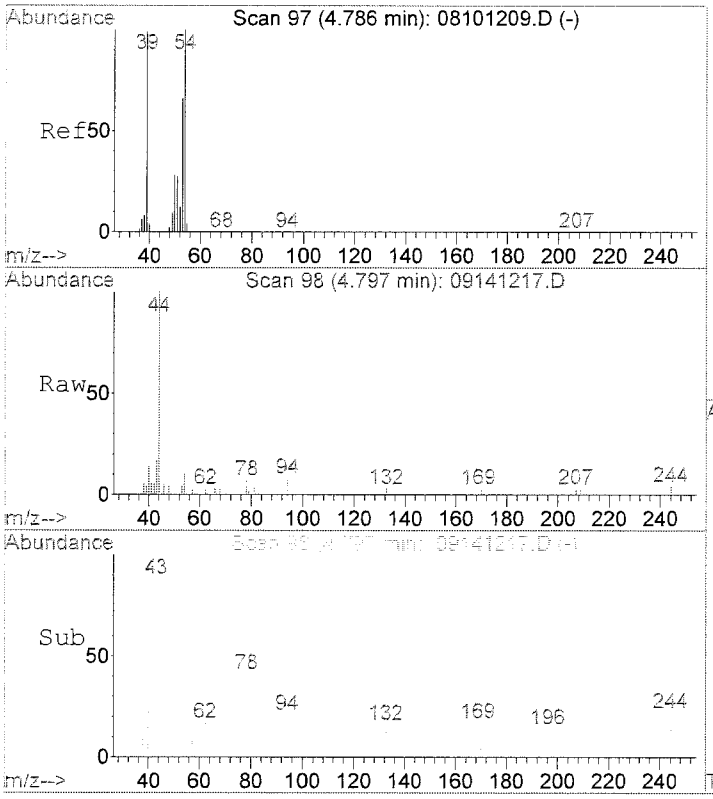


#3
tert-Butanol (TBA)
Concen: 0.33 ug/L
RT: 6.89 min Scan# 311
Delta R.T. 0.06 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 59 Resp: 112

Ion	Ratio	Lower	Upper
59	100		
57	115.2	6.4	9.6#

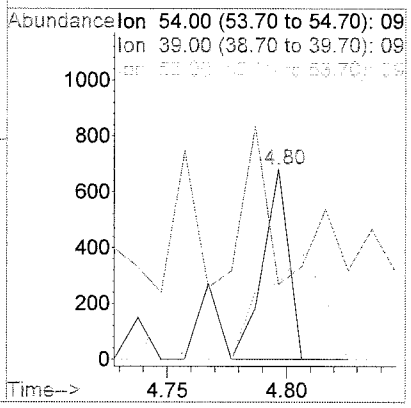


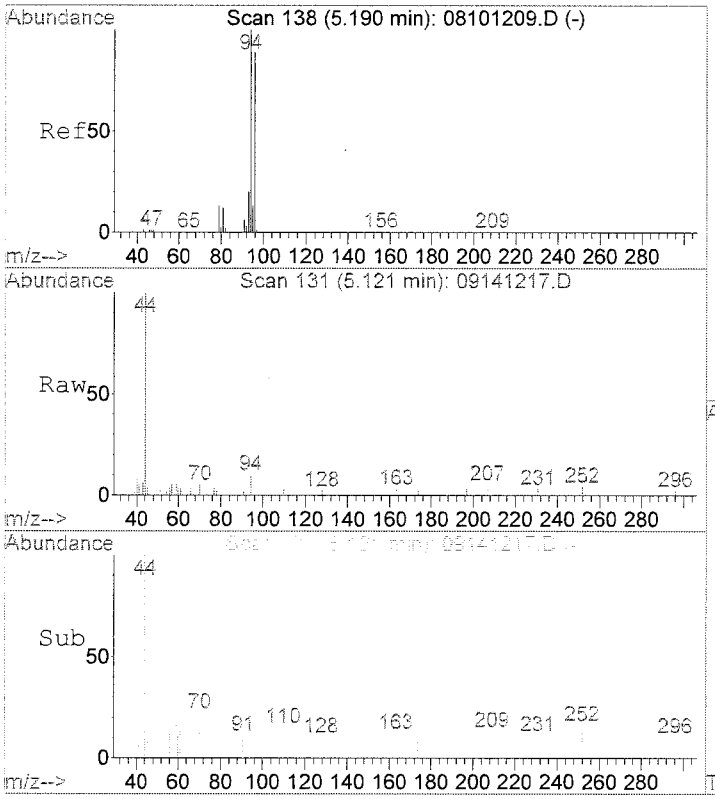


#8
1,3-Butadiene
Concen: 0.14 ug/L
RT: 4.80 min Scan# 98
Delta R.T. 0.01 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 54 Resp: 669

Ion	Ratio	Lower	Upper
54	100		
39	82.2	86.0	129.0#
53	99.3	56.2	84.4#

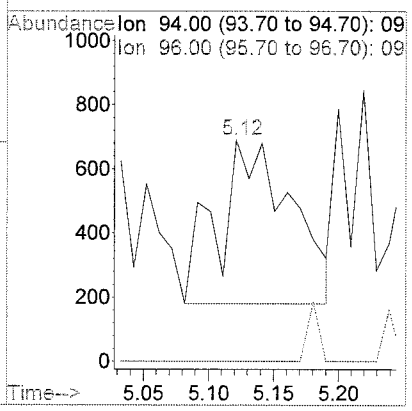


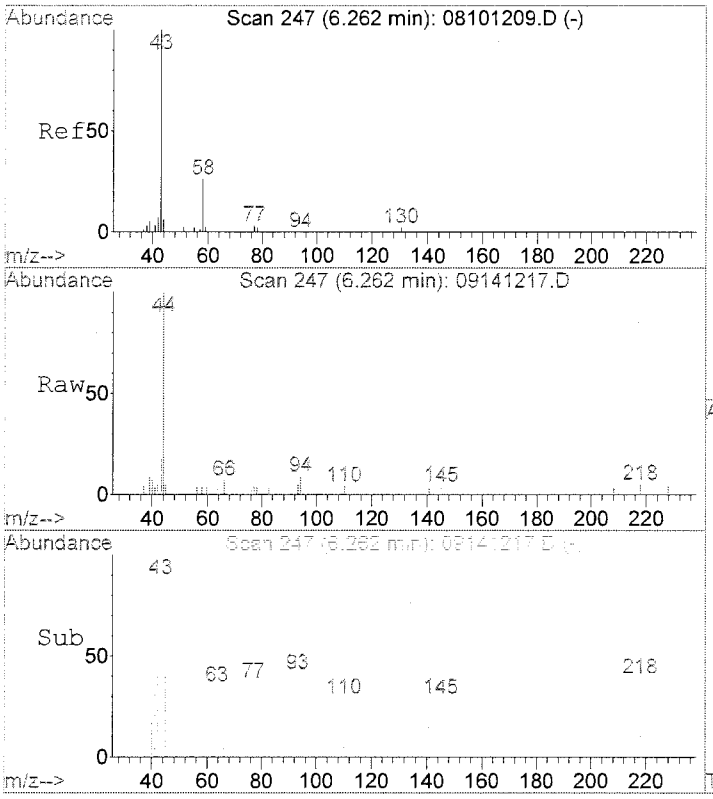


#9
Bromomethane
Concen: 0.36 ug/L
RT: 5.12 min Scan# 131
Delta R.T. -0.07 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 94 Resp: 1981

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

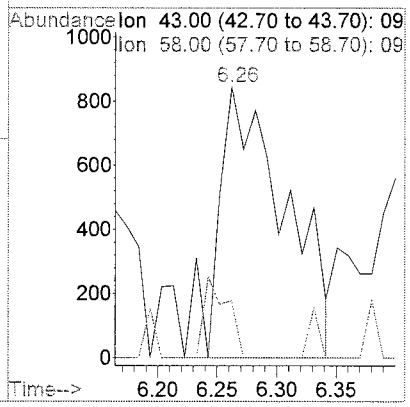


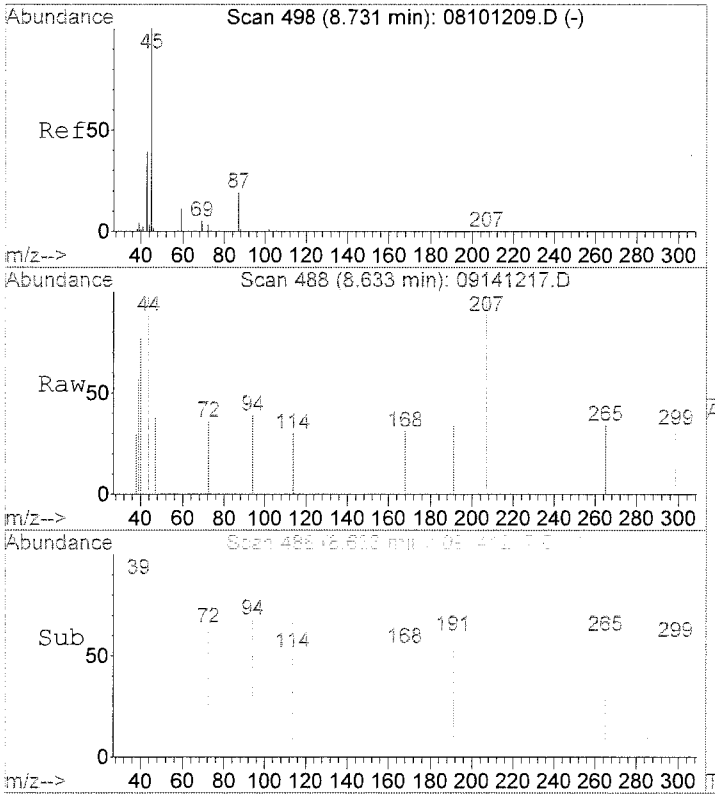


#12
Acetone
Concen: 2.88 ug/L
RT: 6.26 min Scan# 247
Delta R.T. 0.00 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 43 Resp: 3299

Ion	Ratio	Lower	Upper
43	100		
58	10.7	25.9	38.9#

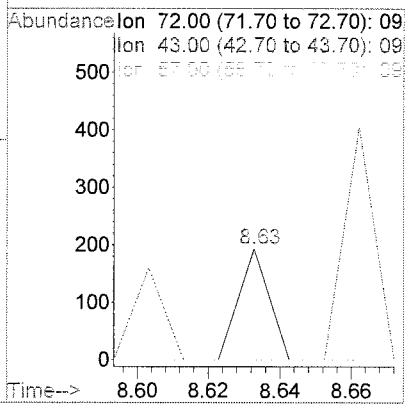


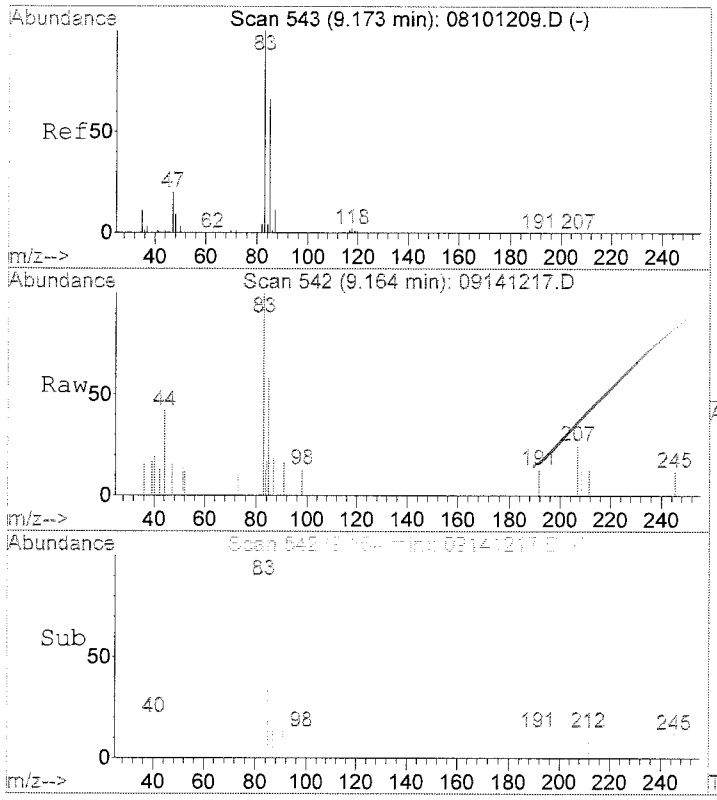


#23
2-Butanone (MEK)
Concen: 0.29 ug/L
RT: 8.63 min Scan# 488
Delta R.T. -0.10 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 72 Resp: 114

Ion	Ratio	Lower	Upper
72	100		
43	210.5	1366.5	2049.7#
57	0.0	0.0	0.0

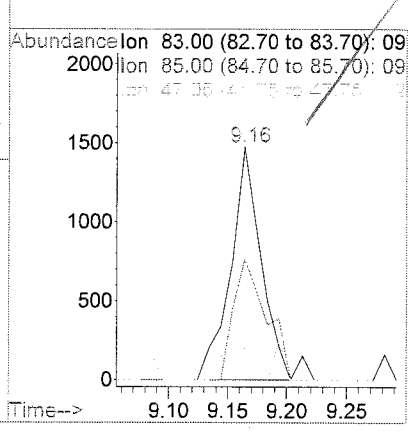


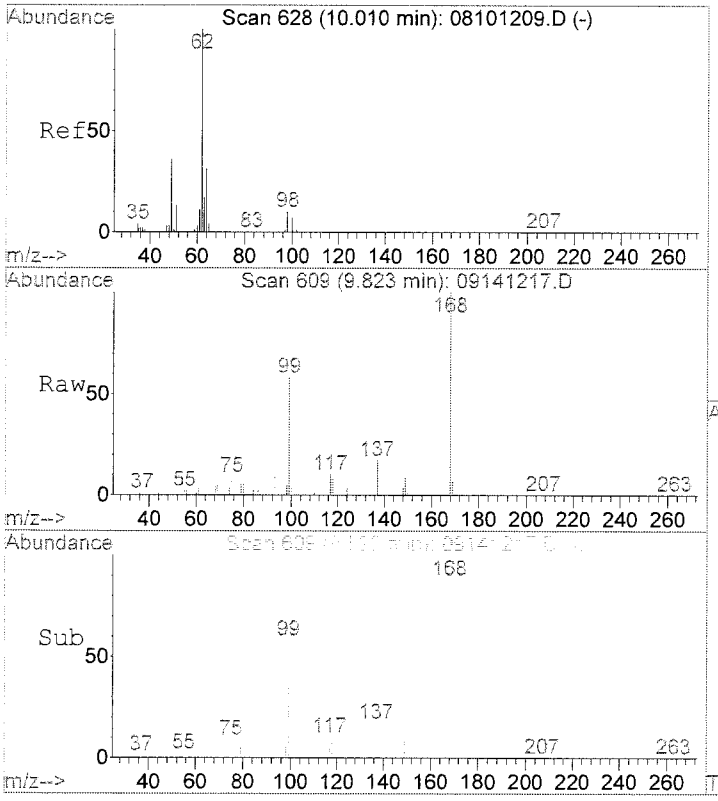


#27
Chloroform
Concen: 0.32 ug/L
RT: 9.16 min Scan# 542
Delta R.T. -0.01 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 83 Resp: 2723

Ion	Ratio	Lower	Upper
83	100		
85	54.9	51.6	77.4
47	18.7	18.9	28.3#

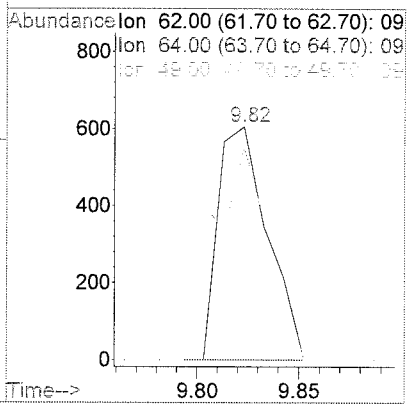


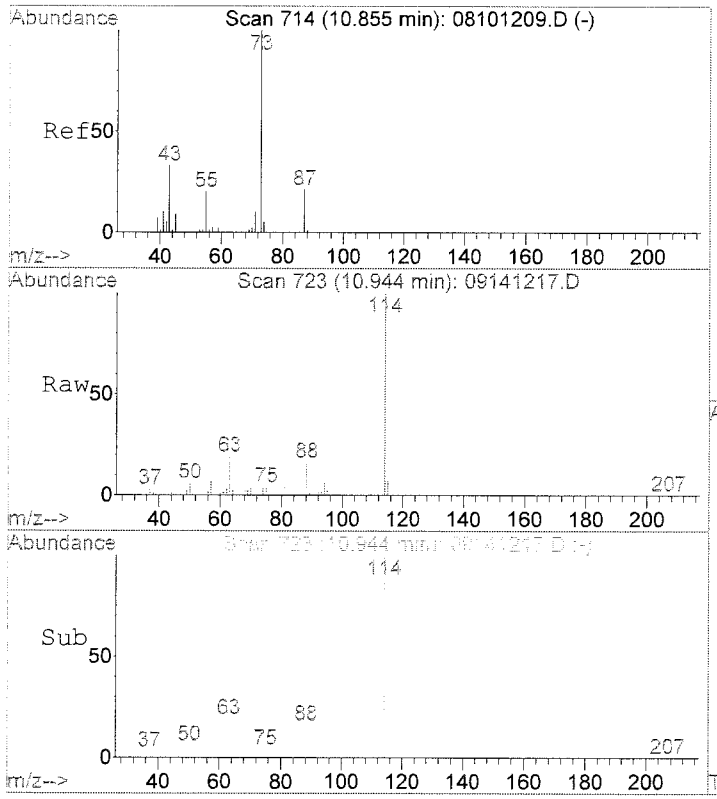


#32
1,2-Dichloroethane
Concen: 0.25 ug/L
RT: 9.82 min Scan# 609
Delta R.T. -0.19 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 62 Resp: 1021

Ion	Ratio	Lower	Upper
62	100		
64	0.0	26.4	39.6#
49	109.1	28.0	42.0#

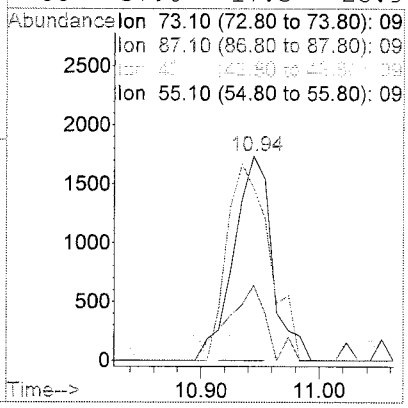


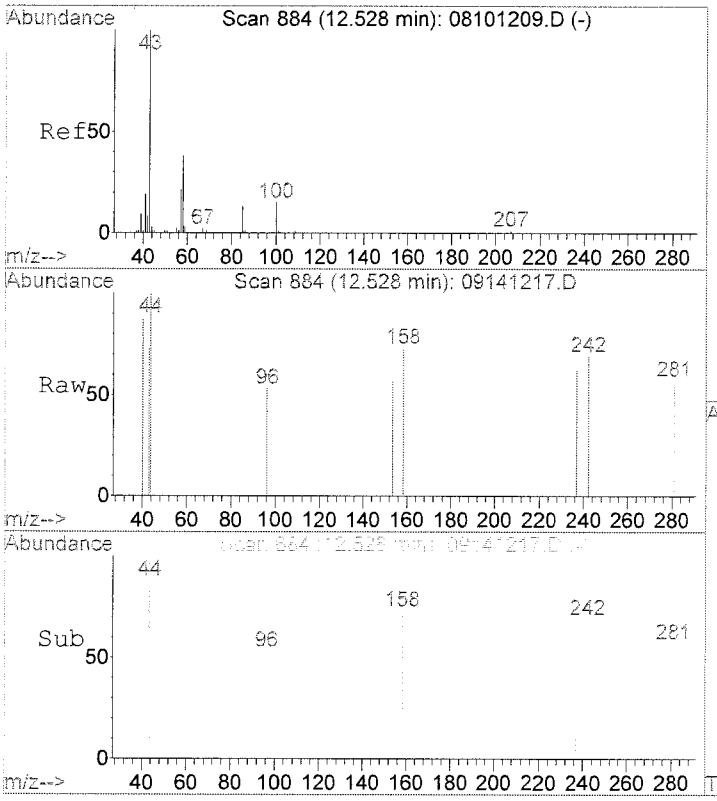


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.09 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 73 Resp: 3953

Ion	Ratio	Lower	Upper
73	100		
87	106.2	16.4	24.6#
43	6.5	27.0	40.4#
55	37.6	17.3	25.9#

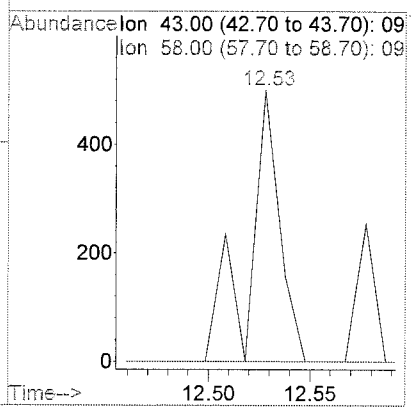




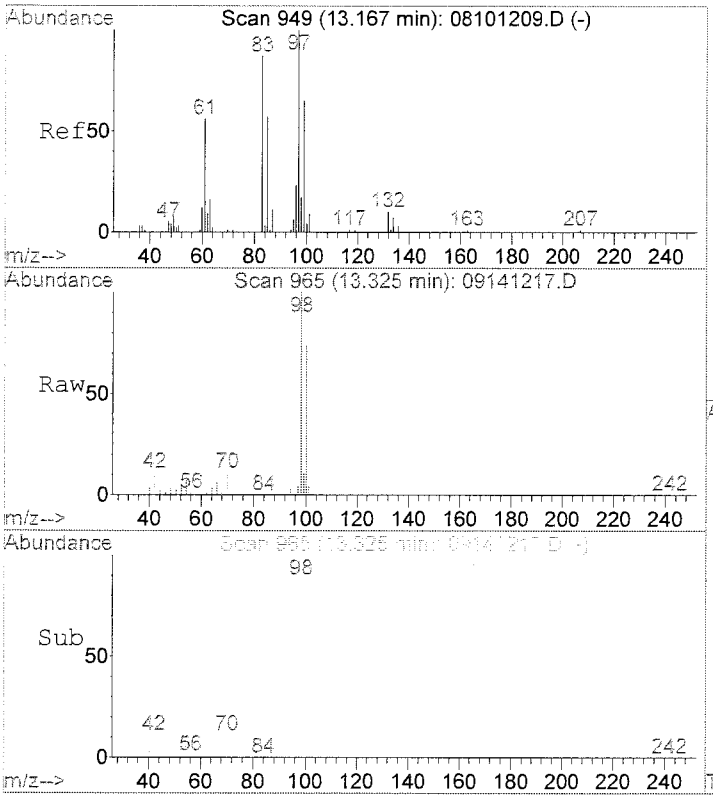
#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.18 ug/L
RT: 12.53 min Scan# 884
Delta R.T. 0.00 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 43 Resp: 526

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#



MM



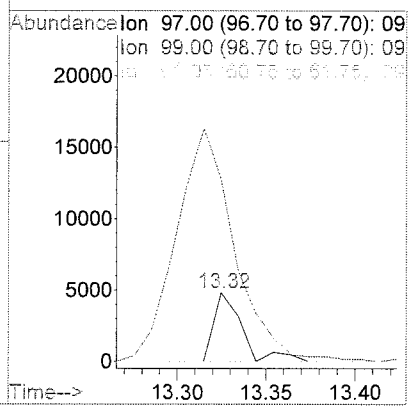
#47
1,1,2-Trichloroethane
Concen: 1.94 ug/L
RT: 13.32 min Scan# 965
Delta R.T. 0.16 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

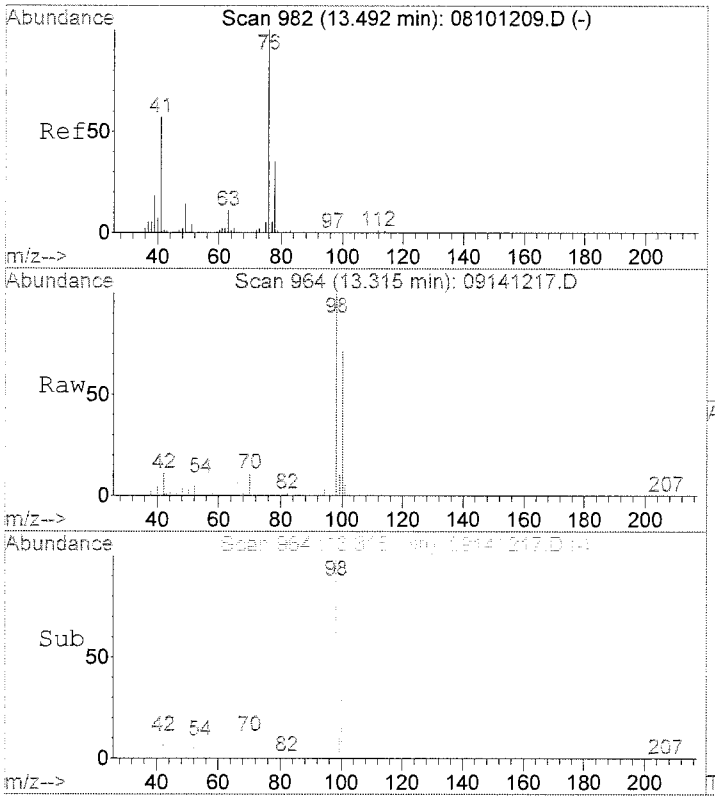
Tgt Ion: 97 Resp: 5380

Ion	Ratio	Lower	Upper
97	100		
99	693.6	51.8	77.6#
61	0.0	45.0	67.4#

WKT

9



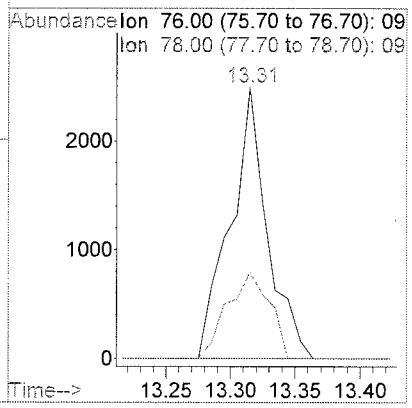


#51
1,3-Dichloropropane
Concen: 1.01 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 76 Resp: 4946

Ion	Ratio	Lower	Upper
76	100		
78	36.4	26.1	39.1

WKT



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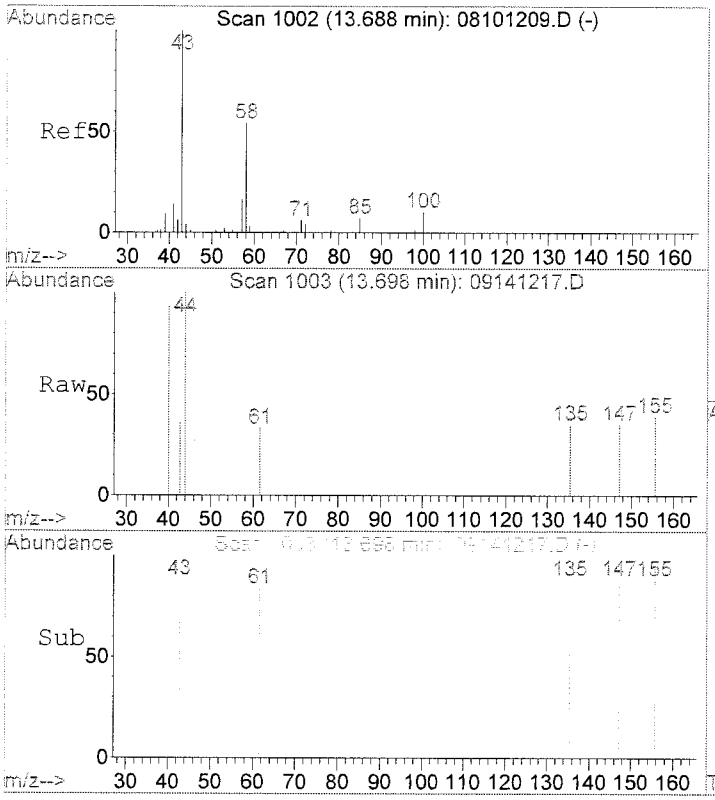
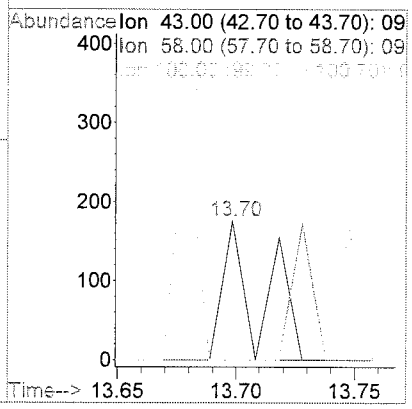


#52
2-Hexanone
Concen: 0.10 ug/L
RT: 13.70 min Scan# 1003
Delta R.T. 0.01 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 43 Resp: 195

Ion	Ratio	Lower	Upper
43	100		
58	52.3	41.0	61.4
100	0.0	8.6	12.8#



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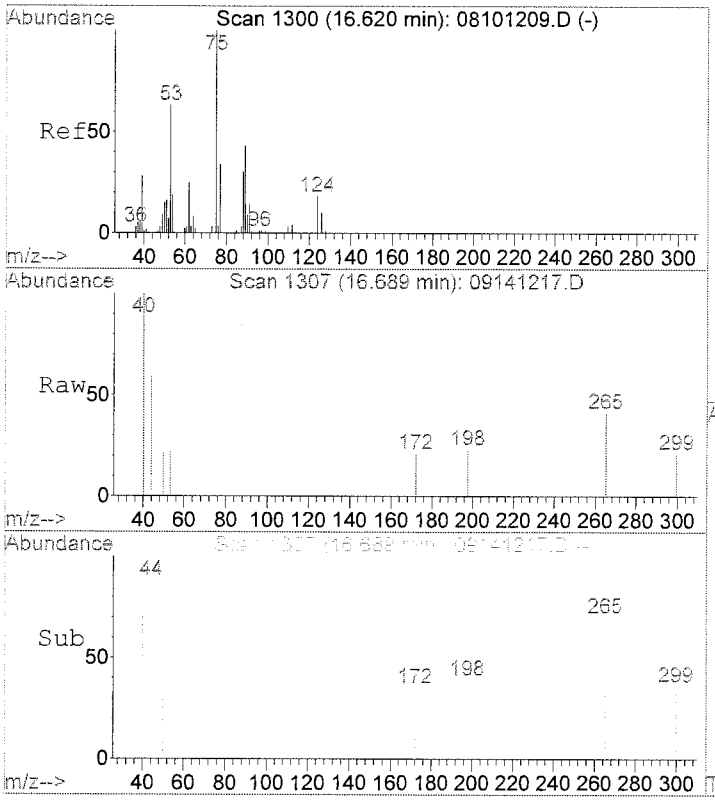
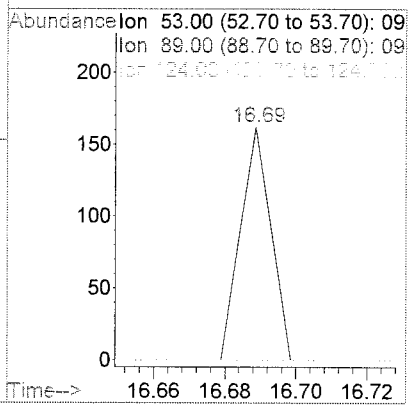


#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.69 min Scan# 1307
Delta R.T. 0.07 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 53 Resp: 96

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



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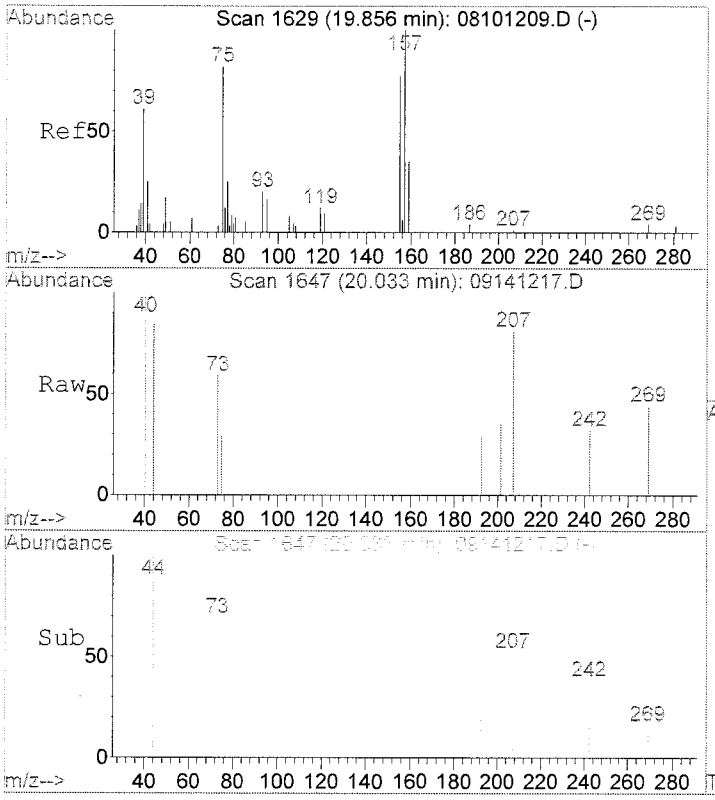
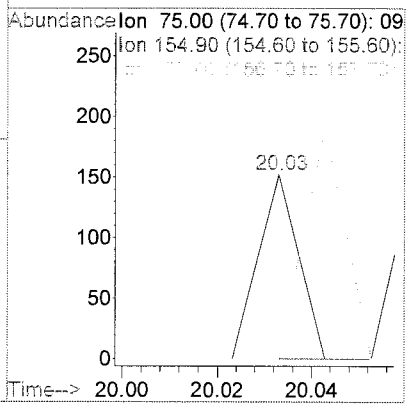


#82
1,2-Dibromo-3-chloropropane
Concen: 0.49 ug/L
RT: 20.03 min Scan# 1647
Delta R.T. 0.18 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion: 75 Resp: 90

Ion	Ratio	Lower	Upper
75	100		
155	127.8	82.6	124.0#
157	125.6	110.1	165.1



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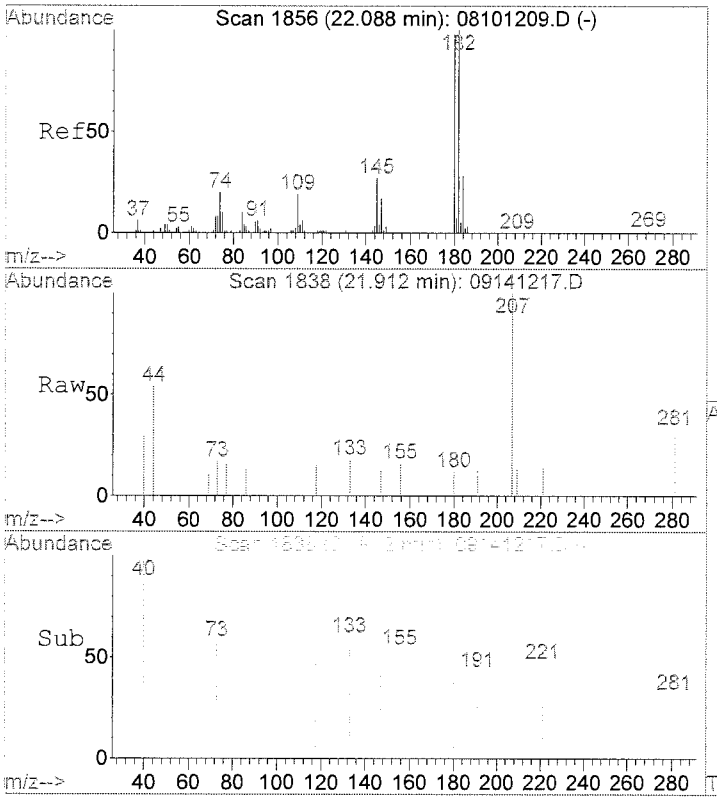
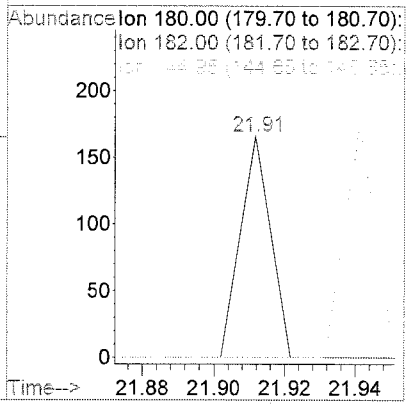


#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 21.91 min Scan# 1838
Delta R.T. -0.18 min
Lab File: 09141217.D
Acq: 14 Sep 2012 3:06 pm

Tgt Ion:180 Resp: 98

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	105.1	23.2	34.8#



MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141218.D Vial: 18
Acq On : 14 Sep 2012 3:38 pm Operator: MNM
Sample : PVI0717-08 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	68017	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	281241	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	388348	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	279758	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	104235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	135729	27.59 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 110.36%	
48) Toluene-d8	13.31	98	368045	24.00 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.00%	
62) 4-Bromofluorobenzene	16.94	95	108388	25.07 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.28%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	46551	1269.46 ug/L #	60
3) tert-Butanol (TBA)	6.77	59	111	0.28 ug/L #	77
5) Dichlorodifluoromethane	3.98	85	5196	0.50 ug/L	66
9) Bromomethane	5.25	94	1010	0.18 ug/L #	36
12) Acetone	6.25	43	3604	3.04 ug/L #	58
27) Chloroform	9.17	83	3503	0.39 ug/L #	88
34) (TAME) tert-Amyl methyl et	10.95	73	3367	0.34 ug/L #	46
41) Trichloroethene	11.47	95	748	0.13 ug/L #	83
55) Tetrachloroethene	14.40	164	1462	0.30 ug/L	89
67) trans-1,4-Dichloro-2-buten	16.66	53	100	1.16 ug/L #	54
82) 1,2-Dibromo-3-chloropropan	19.93	75	166	0.75 ug/L #	17
85) Hexachlorobutadiene	21.82	225	90	Below Cal #	20

LMC NSM

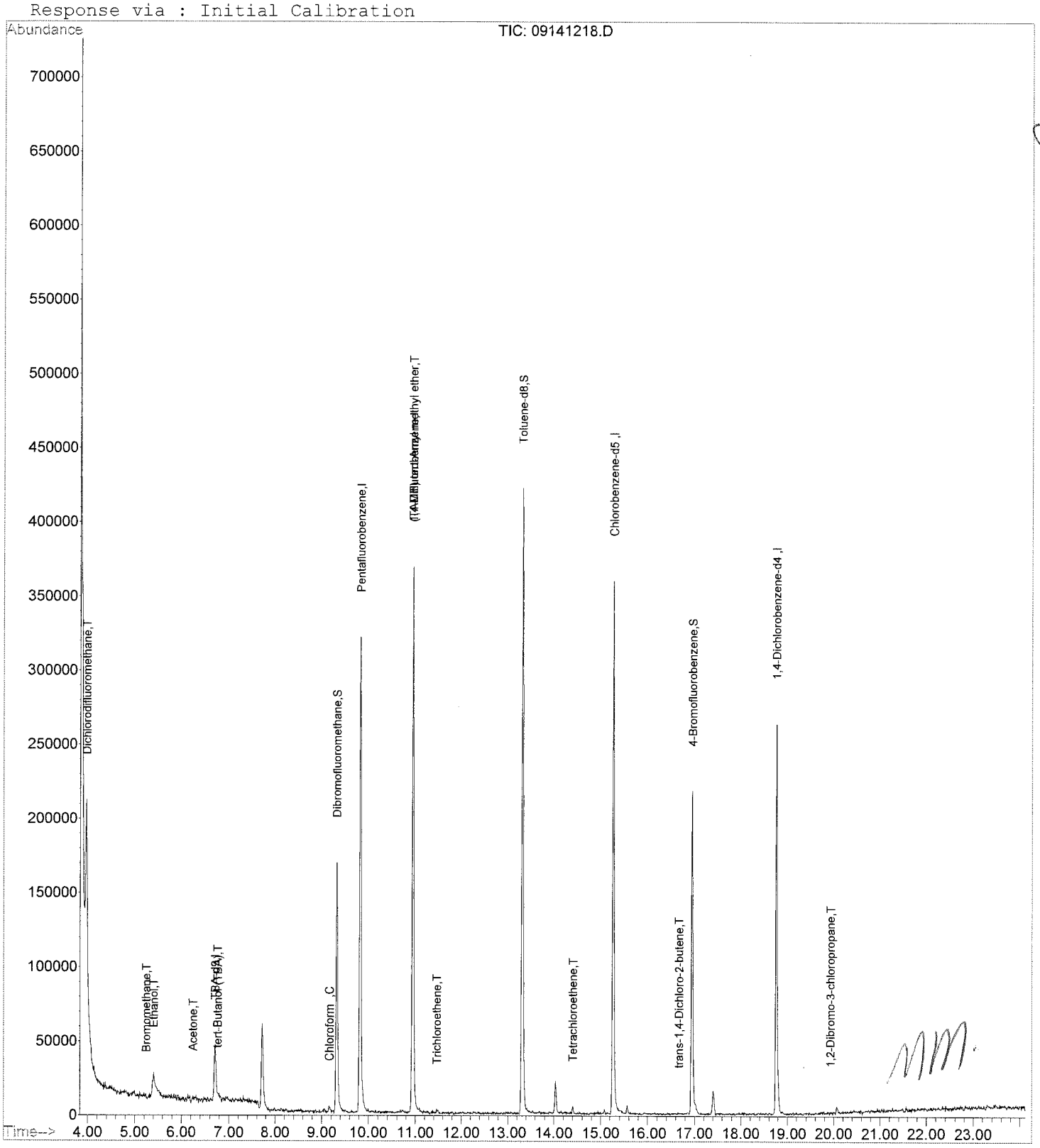
NM 9/17/12

(#) = qualifier out of range (m) = manual integration
09141218.D 081012.M Mon Sep 17 05:16:46 2012

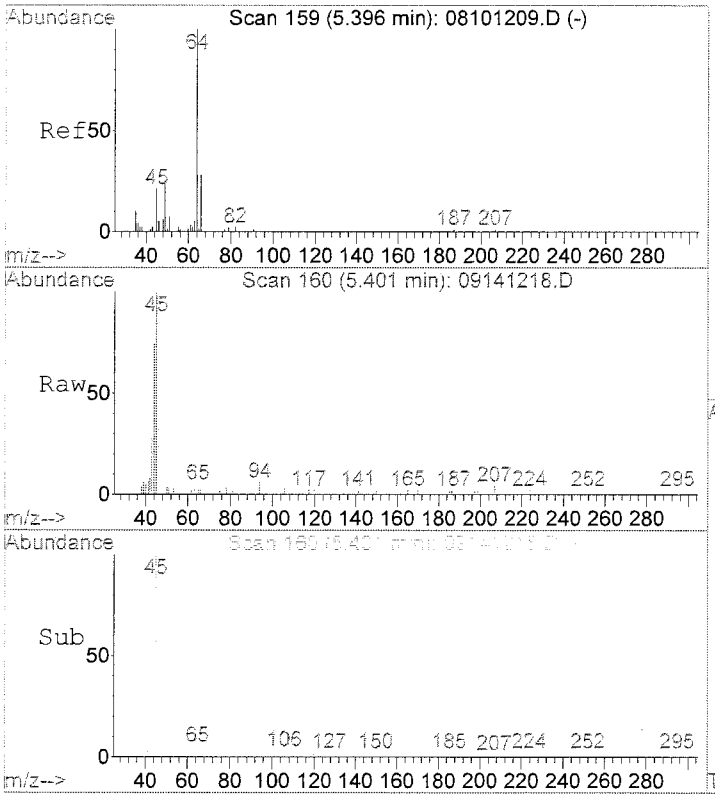
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141218.D Vial: 18
Acq On : 14 Sep 2012 3:38 pm Operator: MNM
Sample : PVI0717-08 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



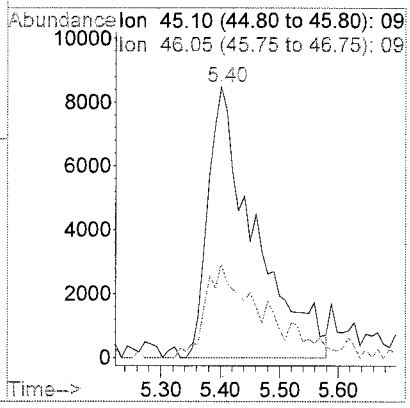
MM

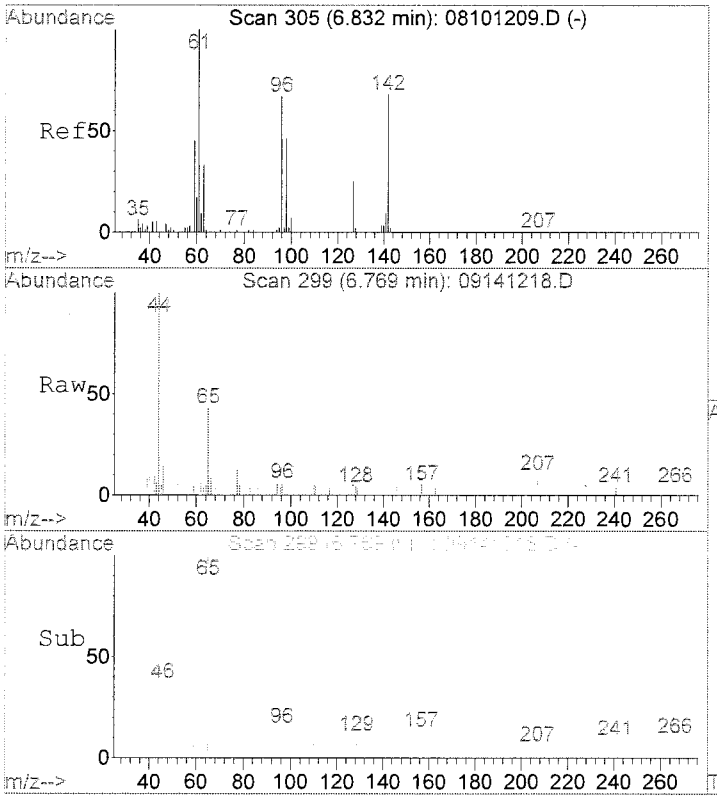


#2
Ethanol
Concen: 1269.46 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 45 Resp: 46551

Ion	Ratio	Lower	Upper
45	100		
46	29.8	39.9	79.9#

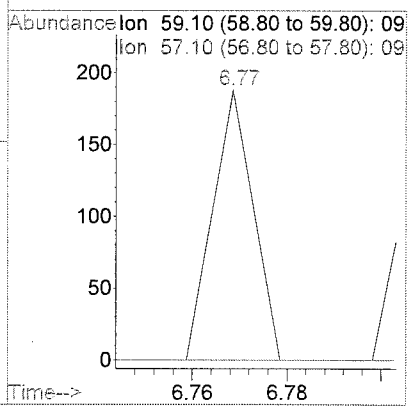




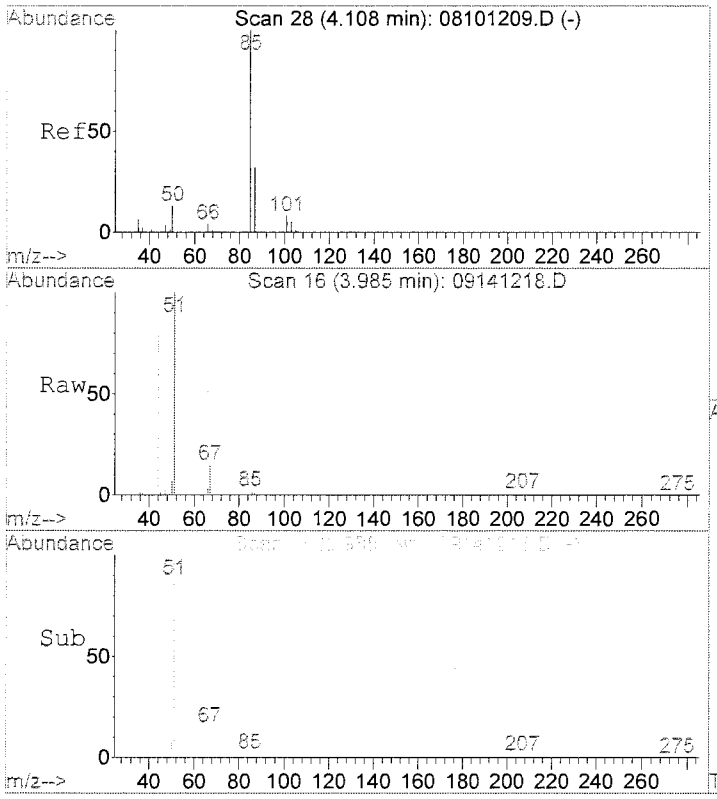
#3
tert-Butanol (TBA)
Concen: 0.28 ug/L
RT: 6.77 min Scan# 299
Delta R.T. -0.06 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 59 Resp: 111

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#



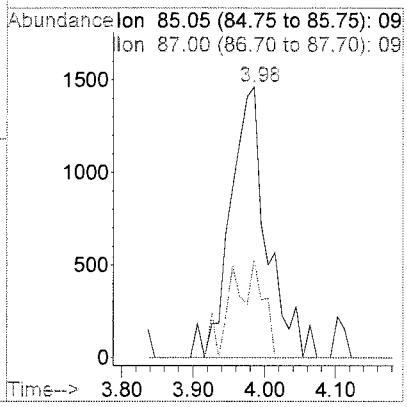
MM

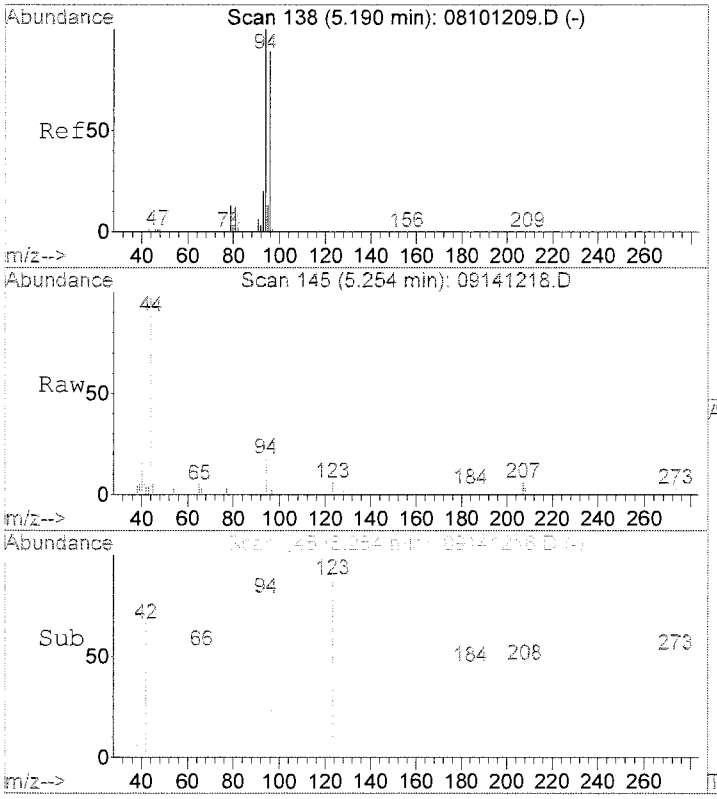


#5
Dichlorodifluoromethane
Concen: 0.50 ug/L
RT: 3.98 min Scan# 16
Delta R.T. +0.12 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 85 Resp: 5196

Ion	Ratio	Lower	Upper
85	100		
87	13.2	11.9	51.9

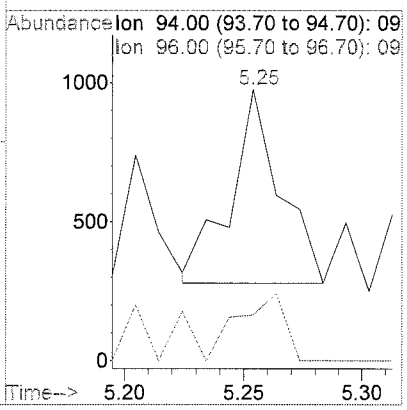


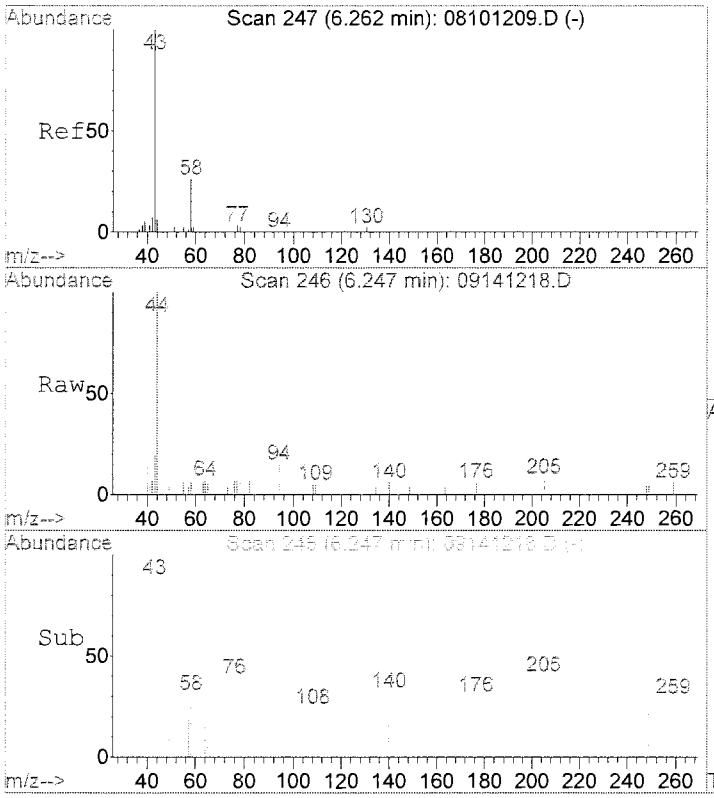


#9
Bromomethane
Concen: 0.18 ug/L
RT: 5.25 min Scan# 145
Delta R.T. 0.06 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 94 Resp: 1010

Ion	Ratio	Lower	Upper
94	100		
96	33.0	75.8	113.6#

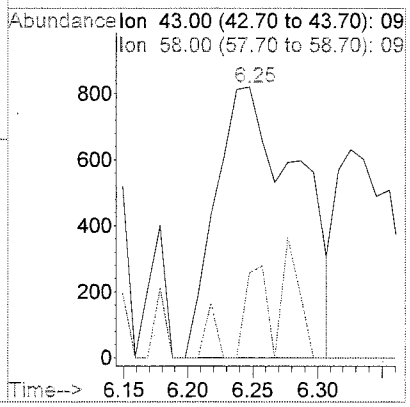




#12
Acetone
Concen: 3.04 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.01 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 43 Resp: 3604

Ion	Ratio	Lower	Upper
43	100		
58	8.8	25.9	38.9#



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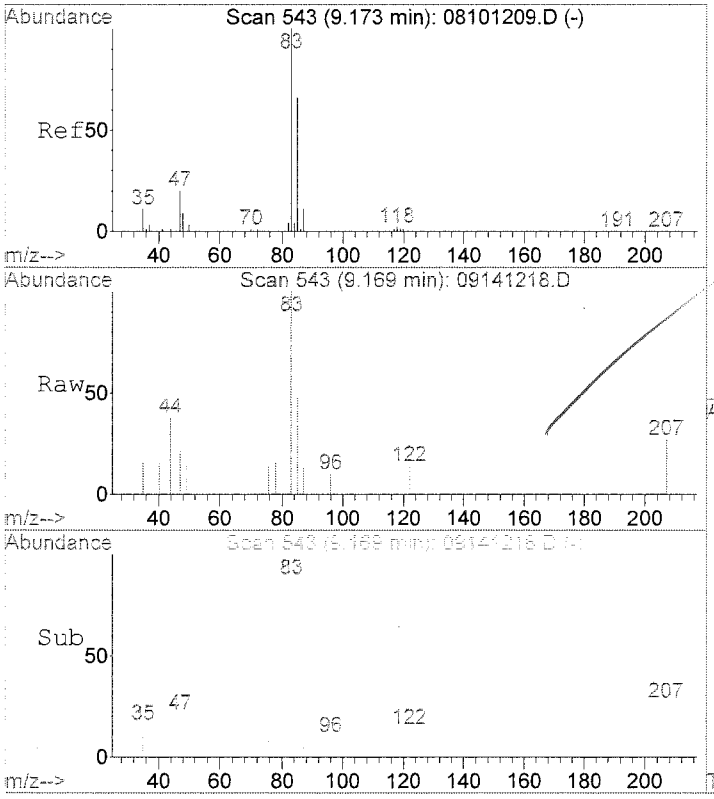
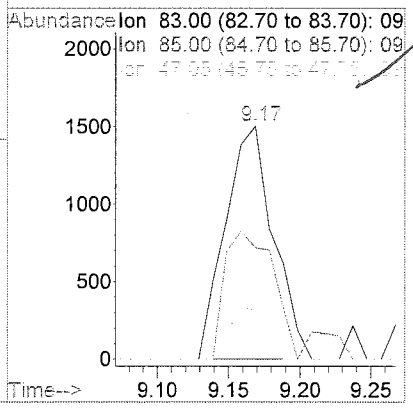


#27
Chloroform
Concen: 0.39 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

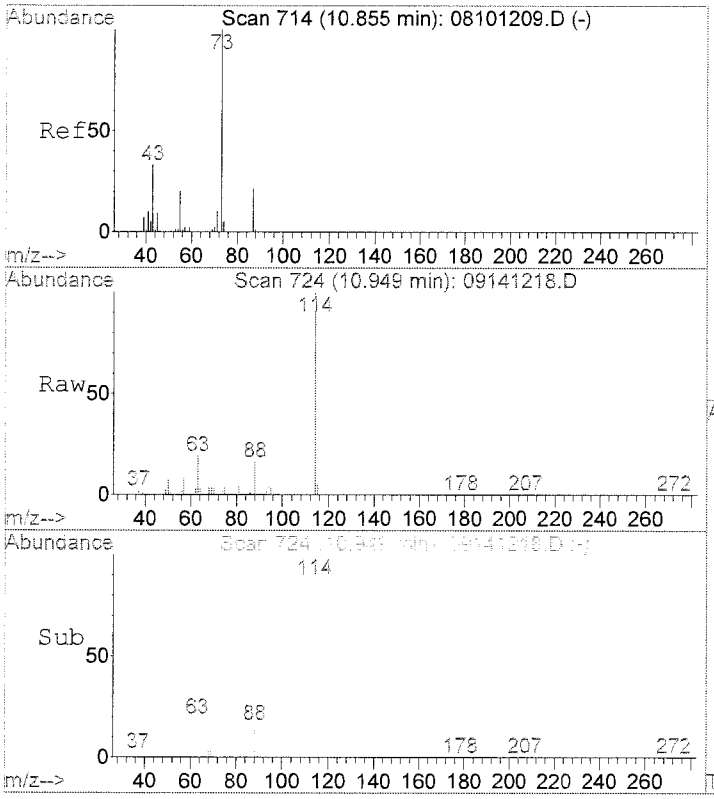
Tgt Ion: 83 Resp: 3503

Ion	Ratio	Lower	Upper
83	100		
85	55.2	51.6	77.4
47	18.5	18.9	28.3#



J

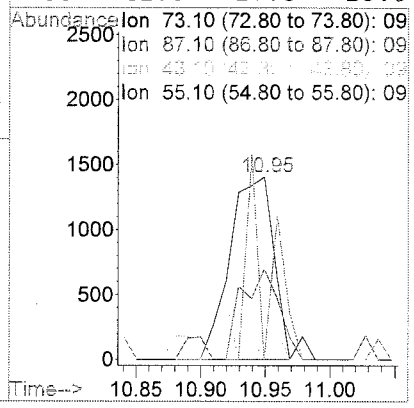
NM

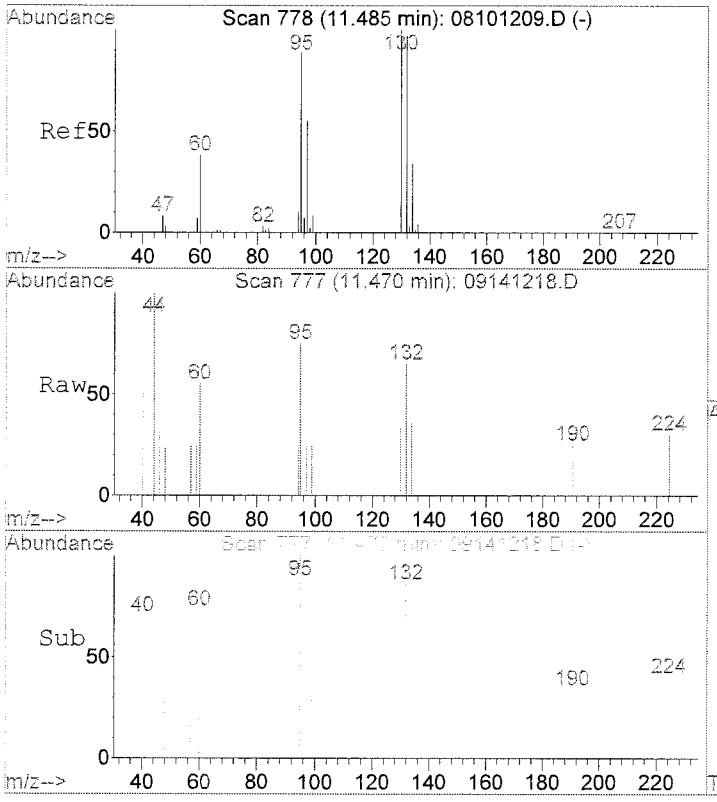


#34
(TAME) tert-Amyl methyl ether
Concen: 0.34 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 73 Resp: 3367

Ion	Ratio	Lower	Upper
73	100		
87	53.1	16.4	24.6#
43	4.0	27.0	40.4#
55	41.5	17.3	25.9#

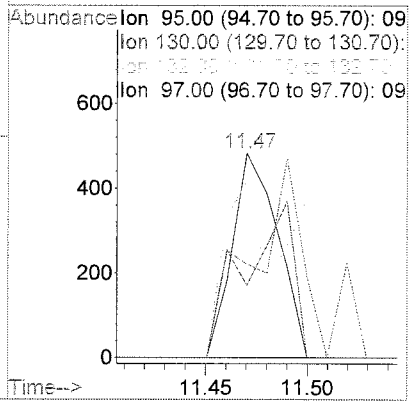


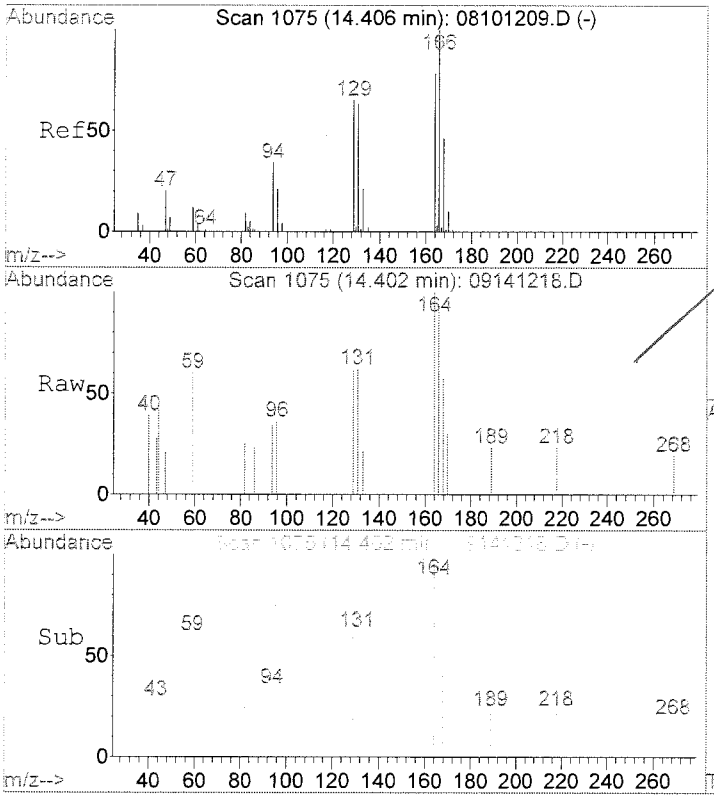


#41
Trichloroethene
Concen: 0.13 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 95 Resp: 748

Ion	Ratio	Lower	Upper
95	100		
130	105.3	87.3	130.9
132	136.5	84.2	126.4#
97	83.6	54.2	81.4#

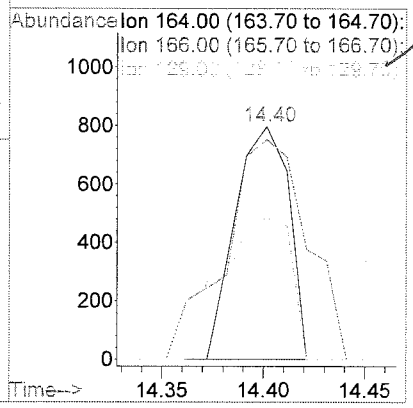


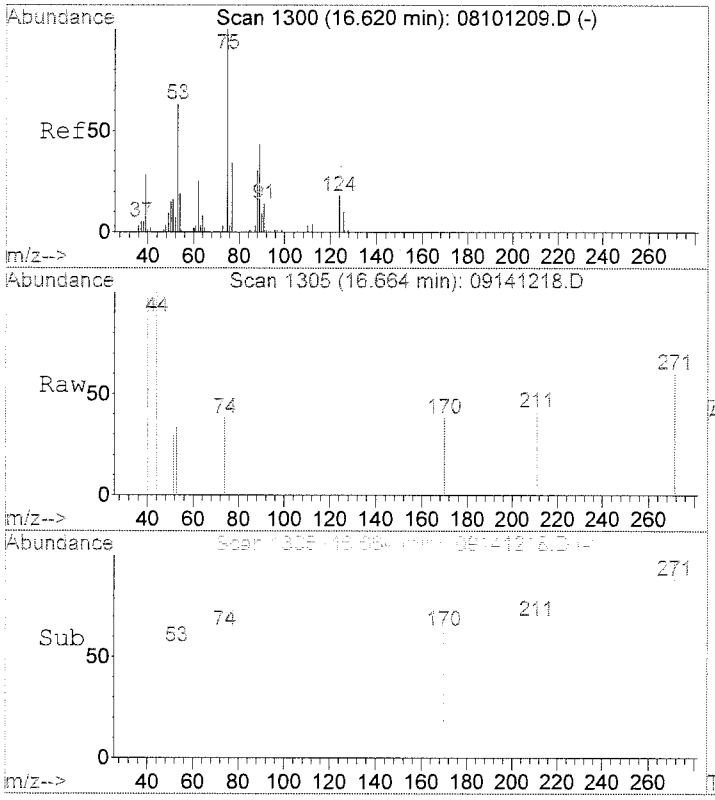


#55
Tetrachloroethene
Concen: 0.30 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion:164 Resp: 1462

Ion	Ratio	Lower	Upper
164	100		
166	144.7	102.1	153.1
129	77.8	66.5	99.7

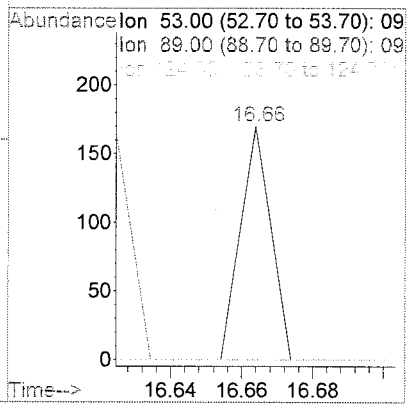




#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.66 min Scan# 1305
Delta R.T. 0.04 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 53 Resp: 100

Ion	Ratio	Lower	Upper
53	100		
89	97.0	50.5	75.7#
124	0.0	21.8	32.8#



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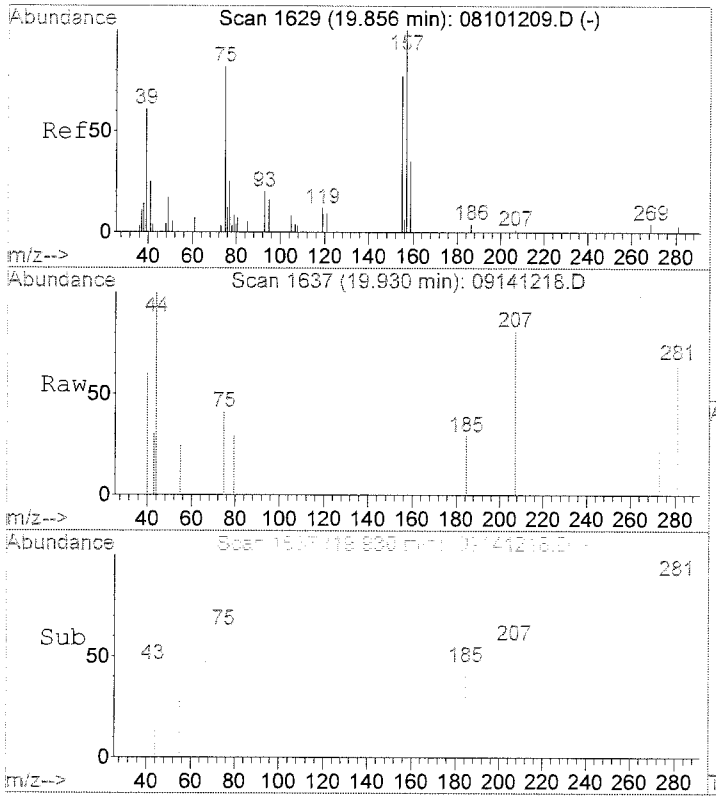
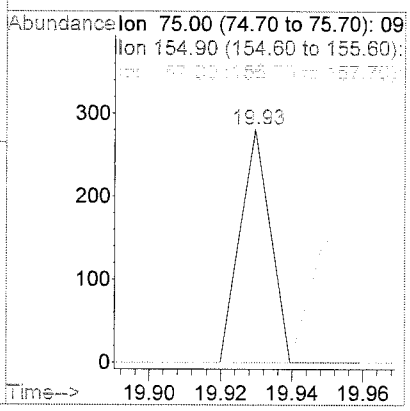


#82
1,2-Dibromo-3-chloropropane
Concen: 0.75 ug/L
RT: 19.93 min Scan# 1637
Delta R.T. 0.07 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion: 75 Resp: 166

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	54.8	110.1	165.1#



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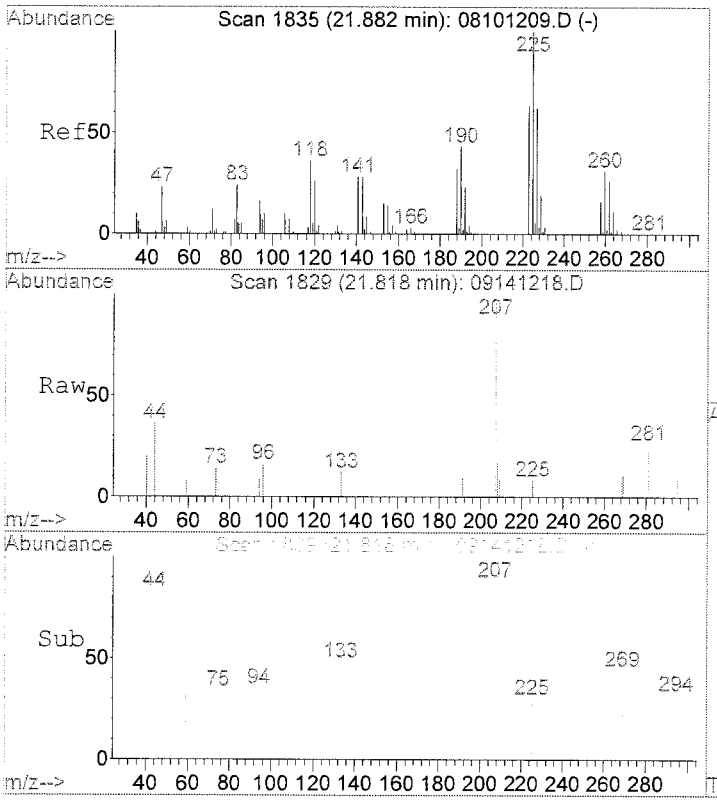
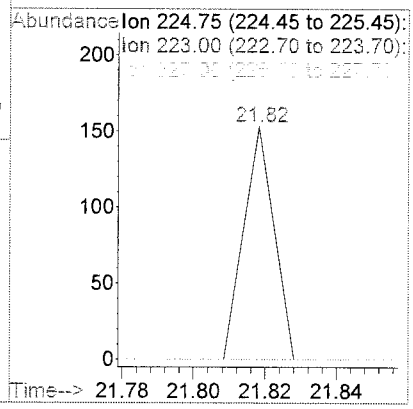


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.82 min Scan# 1829
Delta R.T. -0.06 min
Lab File: 09141218.D
Acq: 14 Sep 2012 3:38 pm

Tgt Ion:225 Resp: 90

Ion	Ratio	Lower	Upper
225	100		
223	0.0	47.8	71.8#
227	0.0	50.6	75.8#



MM

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141219.D Vial: 19
Acq On : 14 Sep 2012 4:11 pm Operator: MNM
Sample : PVI0717-09 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/17/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	58864	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	270002	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	368940	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	268256	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	98825	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	124738	26.42 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 105.68%	
48) Toluene-d8	13.31	98	363468	24.95 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 99.80%	
62) 4-Bromofluorobenzene	16.94	95	104595	25.23 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.92%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	33678	1061.21 ug/L LM	76
3) tert-Butanol (TBA)	6.80	59	185	0.54 ug/L #	77
5) Dichlorodifluoromethane	3.97	85	3369	0.34 ug/L	80 NSM
9) Bromomethane	5.23	94	841	0.16 ug/L #	2
12) Acetone	6.24	43	1952	1.72 ug/L #	65
14) 1,1-Dichloroethene	6.82	96	506	0.09 ug/L #	27
27) Chloroform	9.16	83	2766	0.32 ug/L	94
28) 2,2-Dichloropropane	9.24	77	608	0.09 ug/L #	36
31) Tetrahydrofuran	9.55	72	101	0.29 ug/L #	33
51) 1,3-Dichloropropane	13.32	76	2822	0.59 ug/L #	61 WNT
55) Tetrachloroethene	14.39	164	682	0.14 ug/L #	86
67) trans-1,4-Dichloro-2-buten	16.59	53	93	1.16 ug/L #	51
82) 1,2-Dibromo-3-chloropropan	19.73	75	121	0.62 ug/L #	1
86) 1,2,3-Trichlorobenzene	22.16	180	97	Below Cal #	11

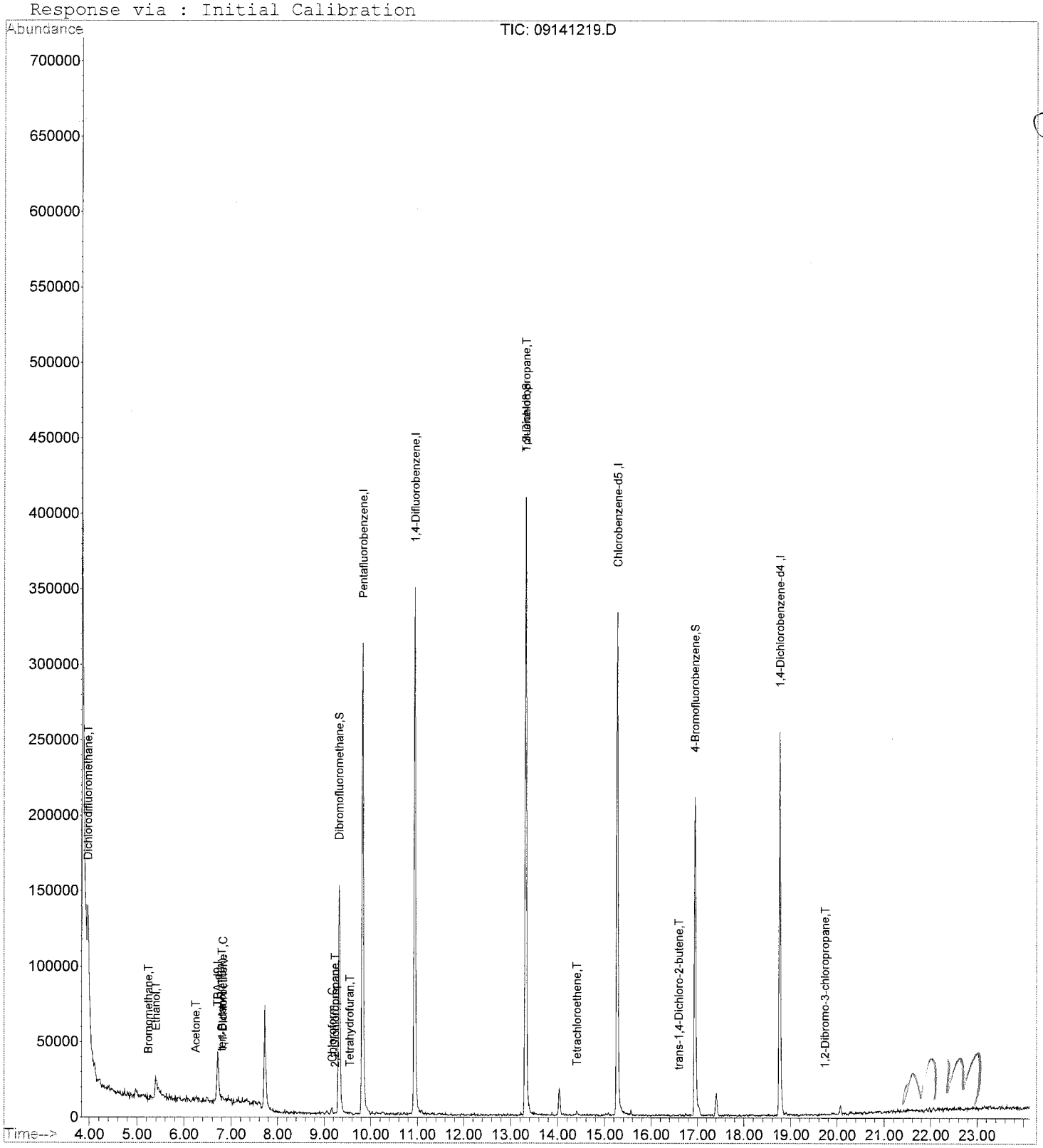
MM 9/17/12

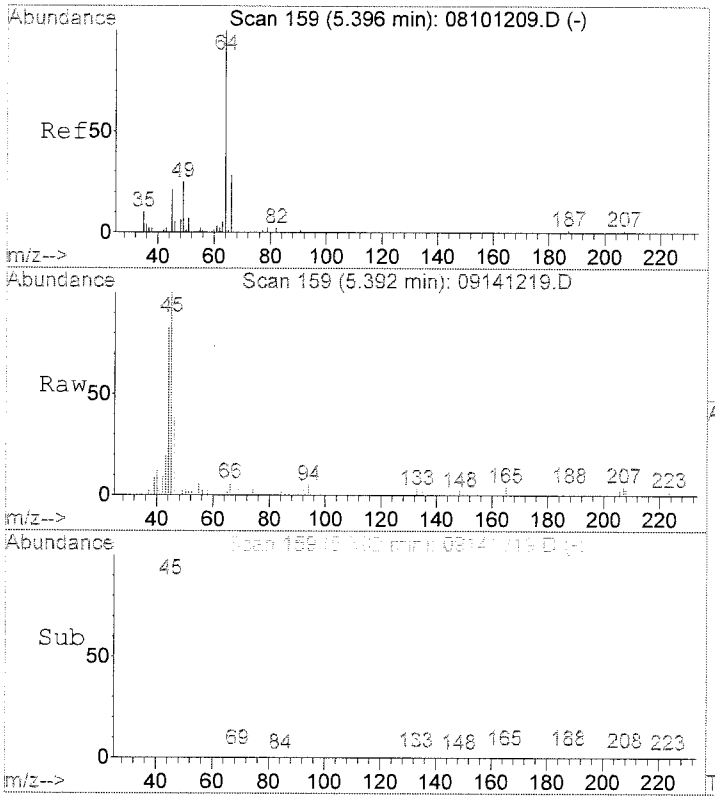
(#) = qualifier out of range (m) = manual integration
09141219.D 081012.M Mon Sep 17 05:17:04 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091412\09141219.D Vial: 19
Acq On : 14 Sep 2012 4:11 pm Operator: MNM
Sample : PVI0717-09 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 5:16 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

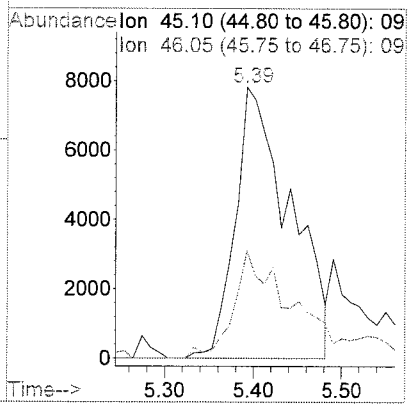


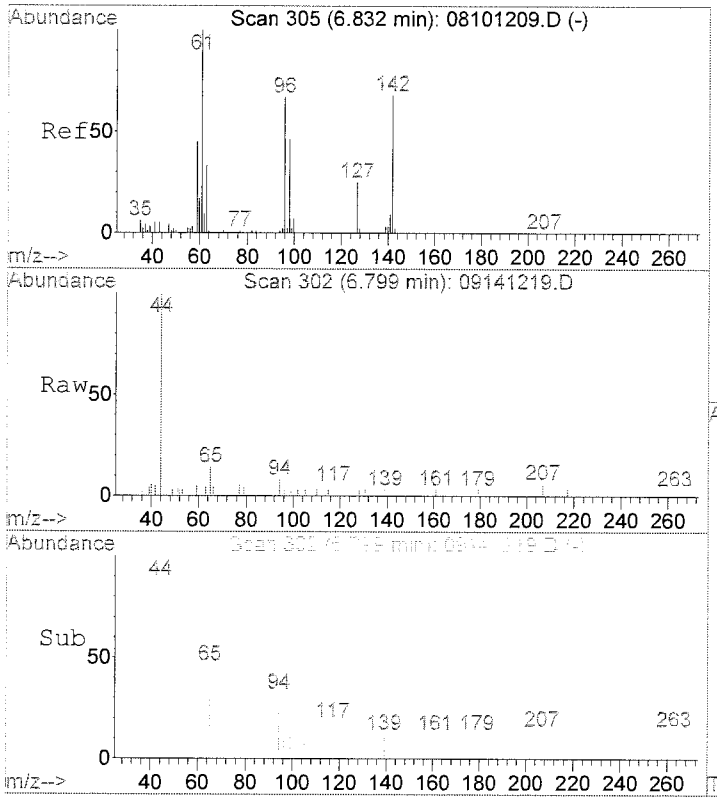


#2
Ethanol
Concen: 1061.21 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 45 Resp: 33678

Ion	Ratio	Lower	Upper
45	100		
46	42.0	39.9	79.9

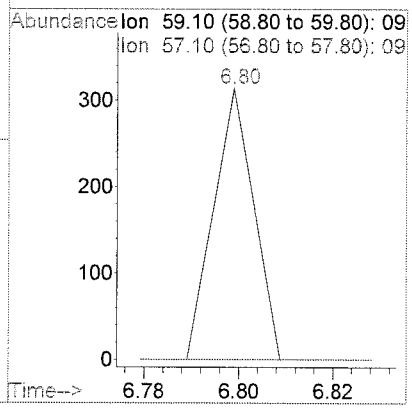


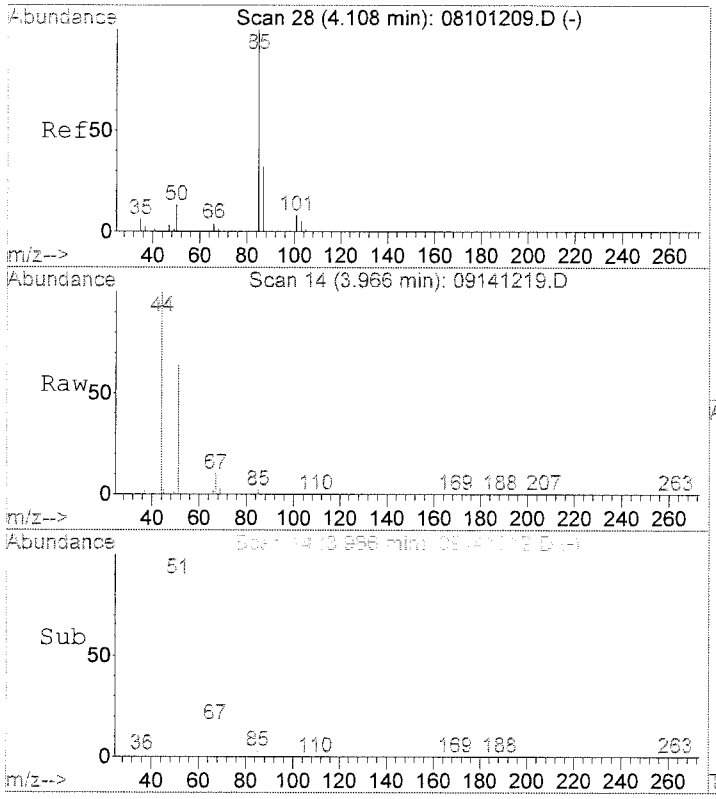


#3
tert-Butanol (TBA)
Concen: 0.54 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 59 Resp: 185

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#





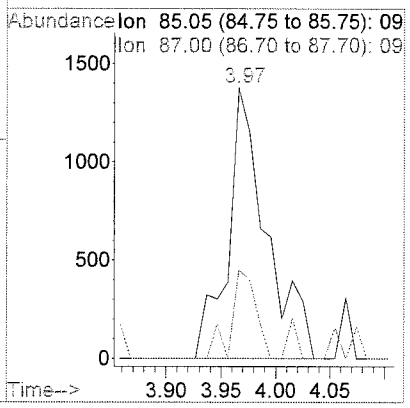
#5
Dichlorodifluoromethane
Concen: 0.34 ug/L
RT: 3.97 min Scan# 14
Delta R.T. -0.14 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

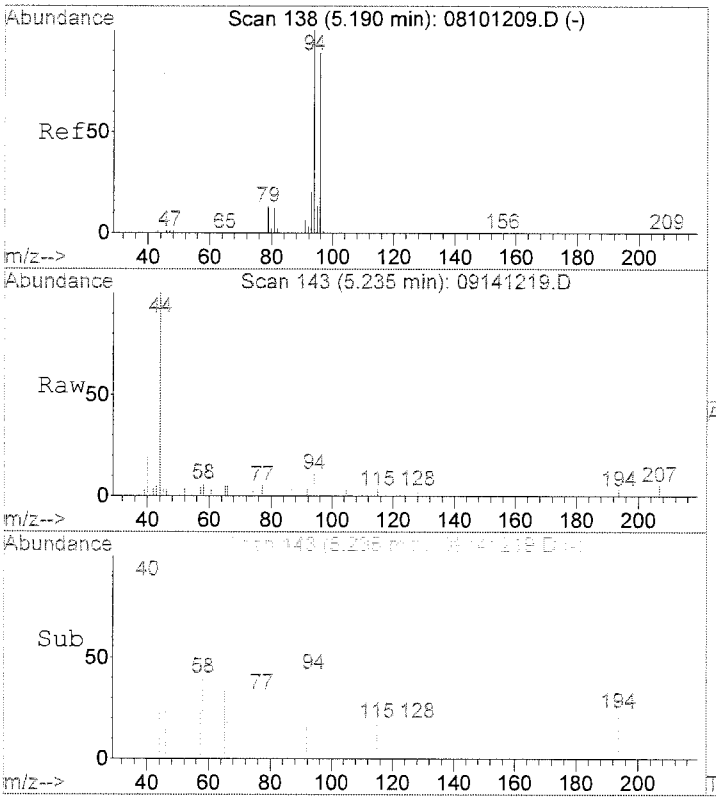
Tgt Ion: 85 Resp: 3369

Ion	Ratio	Lower	Upper
85	100		
87	21.0	11.9	51.9

WLT

9

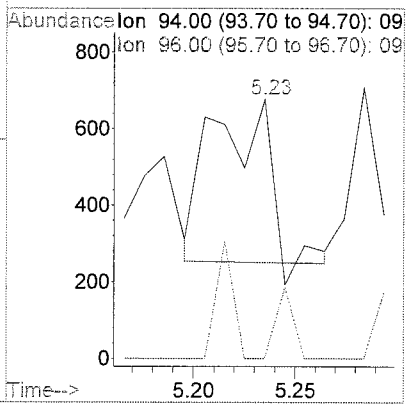




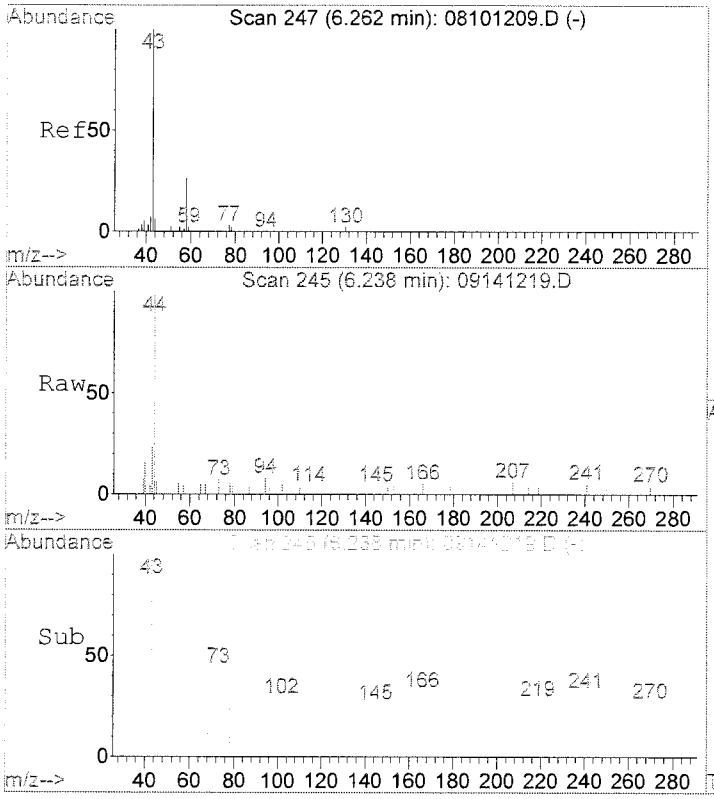
#9
Bromomethane
Concen: 0.16 ug/L
RT: 5.23 min Scan# 143
Delta R.T. 0.05 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 94 Resp: 841

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#



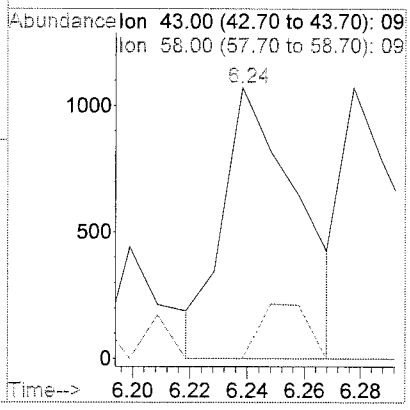
MM



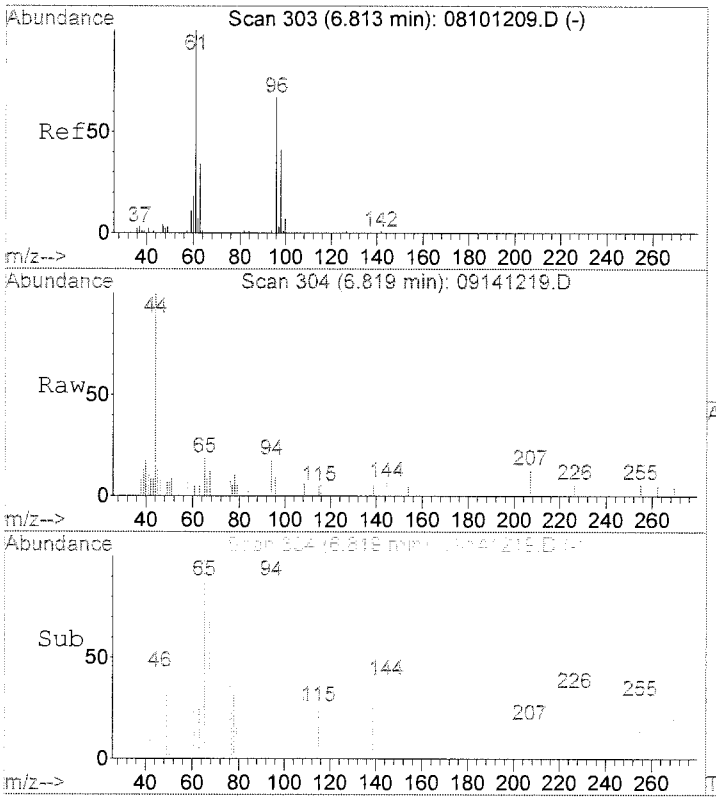
#12
Acetone
Concen: 1.72 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 43 Resp: 1952

Ion	Ratio	Lower	Upper
43	100		
58	12.9	25.9	38.9#



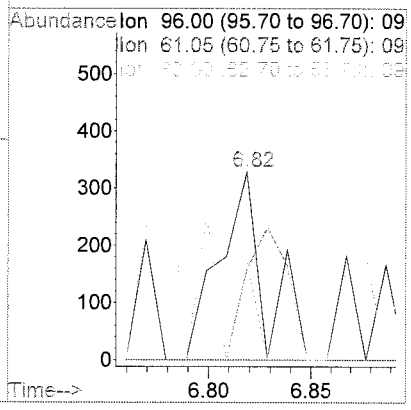
9



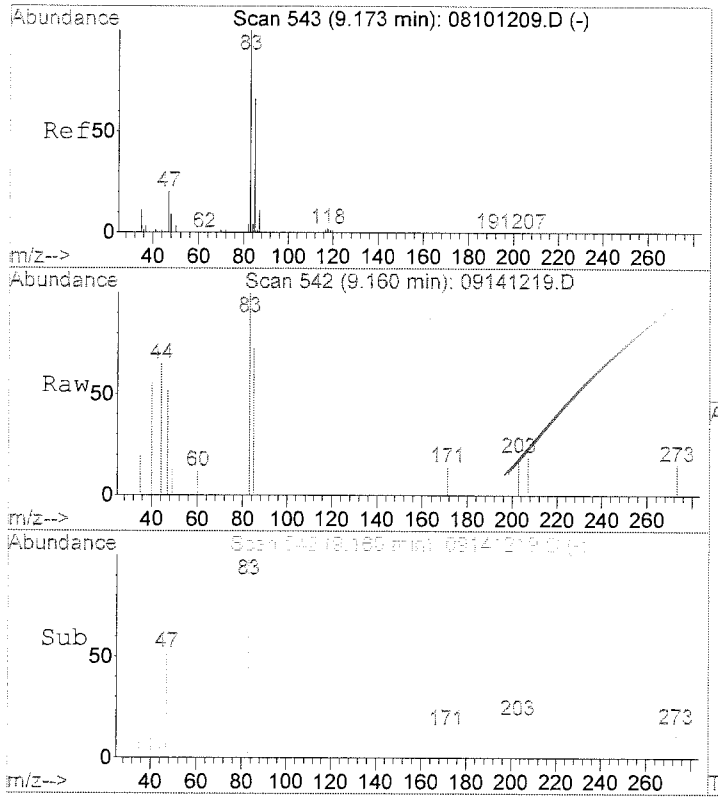
#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 6.82 min Scan# 304
Delta R.T. 0.01 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 96 Resp: 506

Ion	Ratio	Lower	Upper
96	100		
61	64.4	128.0	192.0#
63	0.0	41.2	61.8#



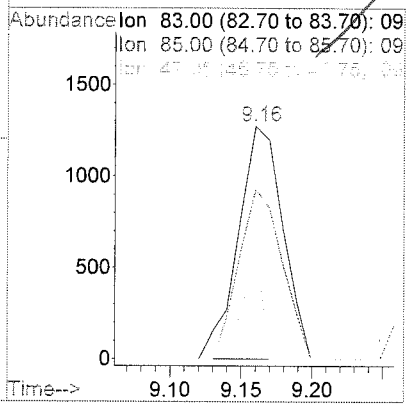
mm

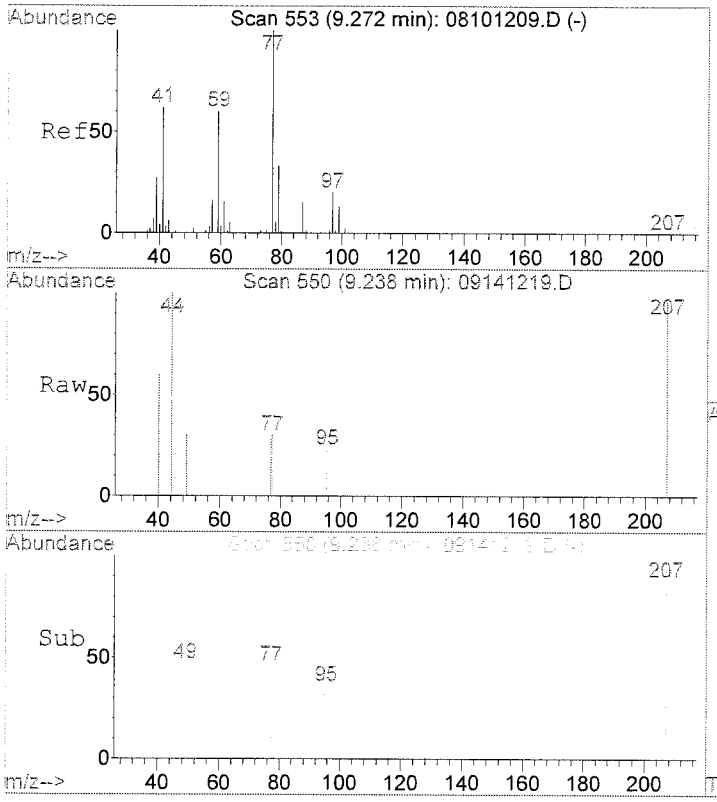


#27
Chloroform
Concen: 0.32 ug/L
RT: 9.16 min Scan# 542
Delta R.T. -0.01 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 83 Resp: 2766

Ion	Ratio	Lower	Upper
83	100		
85	71.1	51.6	77.4
47	23.7	18.9	28.3

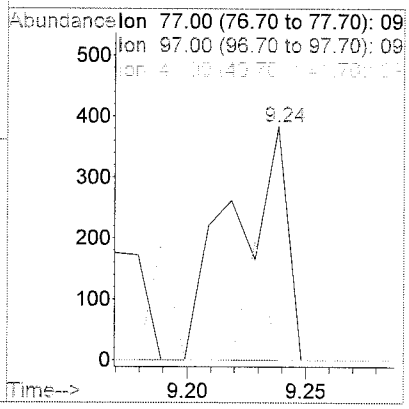


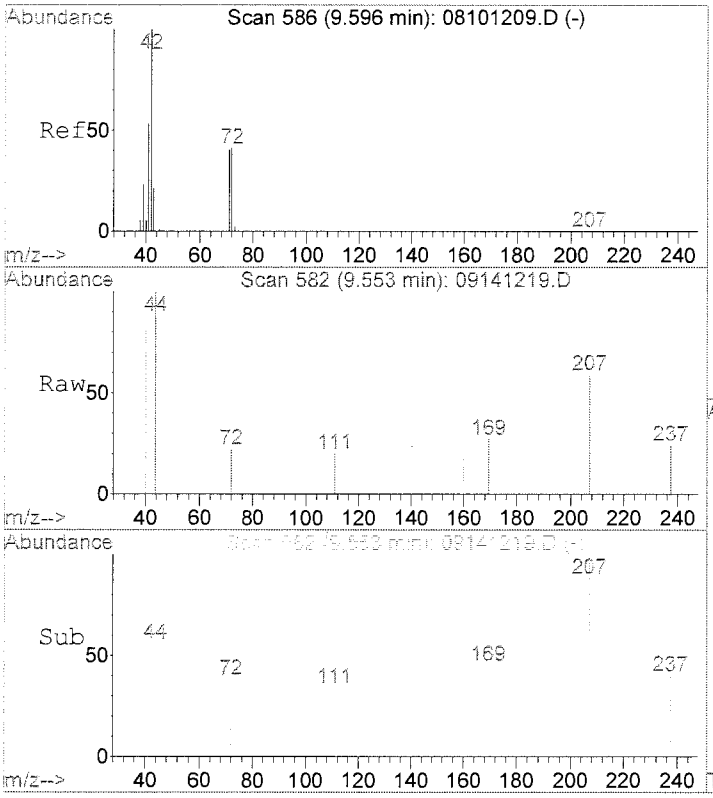


#28
2,2-Dichloropropane
Concen: 0.09 ug/L
RT: 9.24 min Scan# 550
Delta R.T. -0.03 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 77 Resp: 608

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.9	25.3#
41	18.9	64.1	96.1#

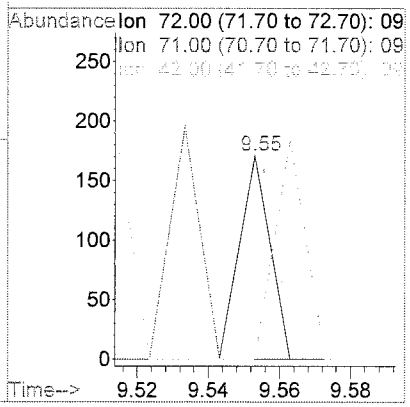


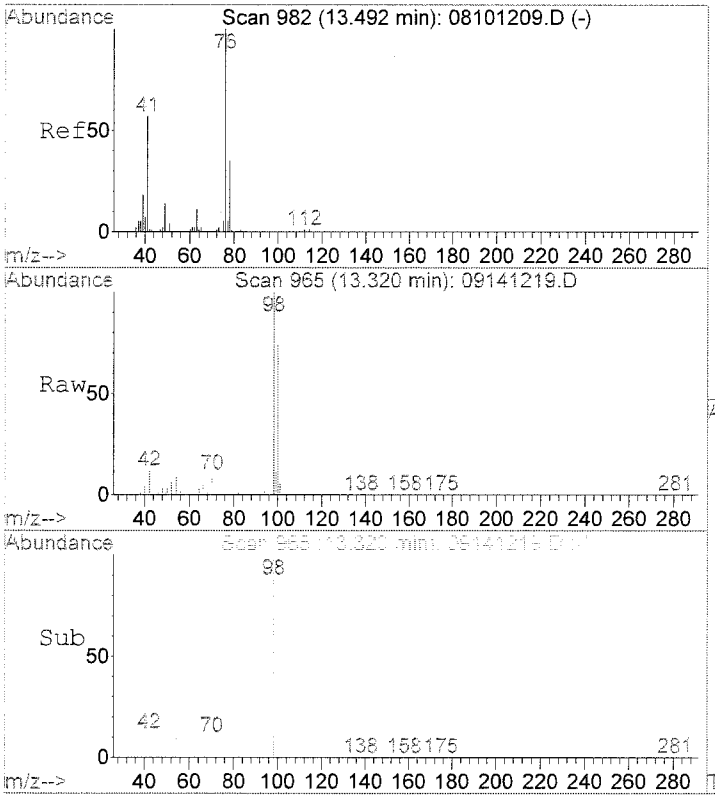


#31
Tetrahydrofuran
Concen: 0.29 ug/L
RT: 9.55 min Scan# 582
Delta R.T. -0.04 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 72 Resp: 101

Ion	Ratio	Lower	Upper
72	100		
71	107.9	79.1	118.7
42	108.9	217.1	325.7#

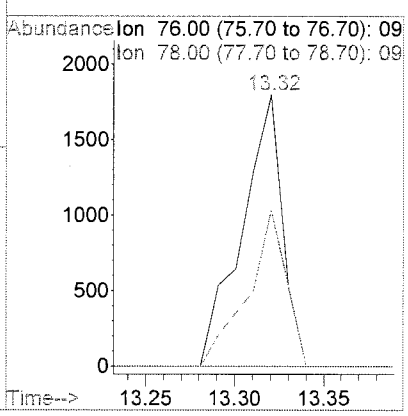


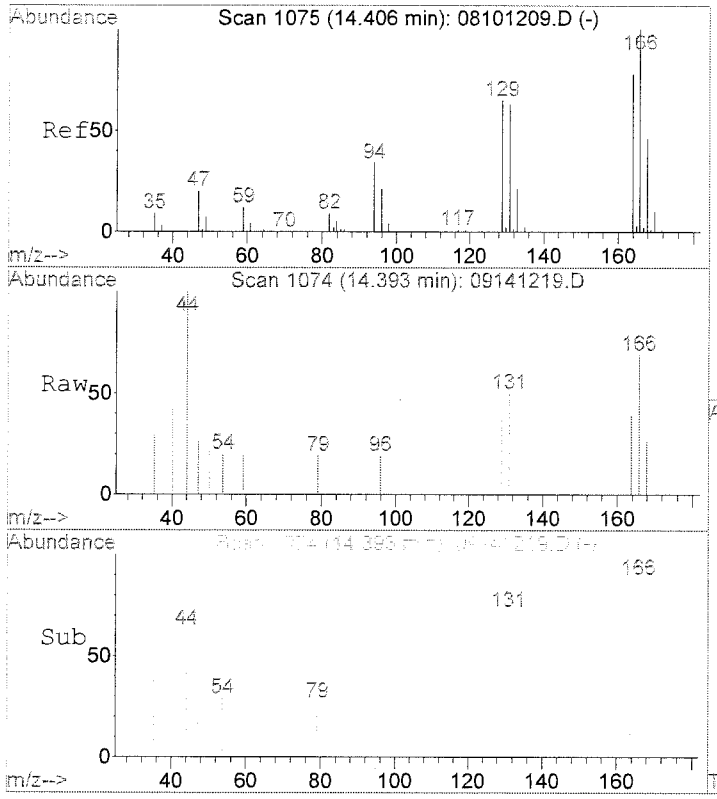


#51
1,3-Dichloropropane
Concen: 0.59 ug/L
RT: 13.32 min Scan# 965
Delta R.T. -0.17 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 76 Resp: 2822

Ion	Ratio	Lower	Upper
76	100		
78	54.6	26.1	39.1#

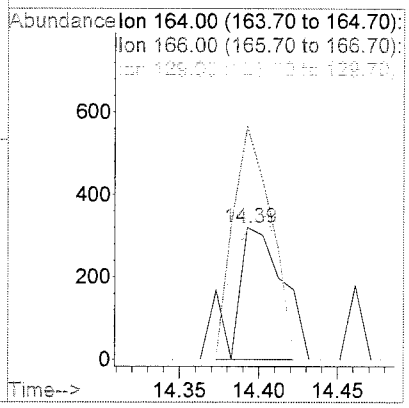


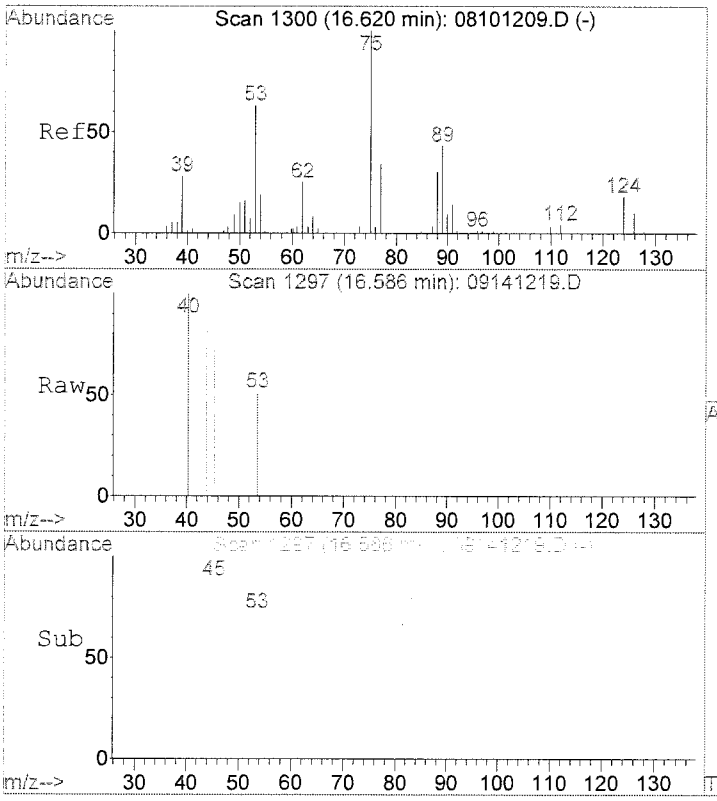


#55
Tetrachloroethene
Concen: 0.14 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion:164 Resp: 682

Ion	Ratio	Lower	Upper
164	100		
166	138.0	102.1	153.1
129	103.1	66.5	99.7#

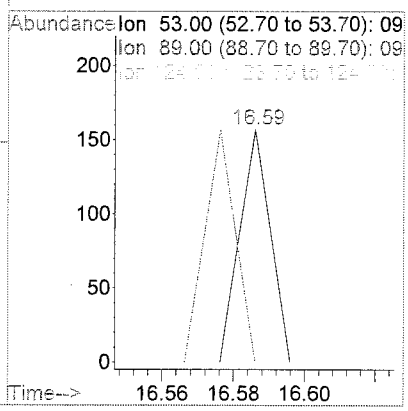


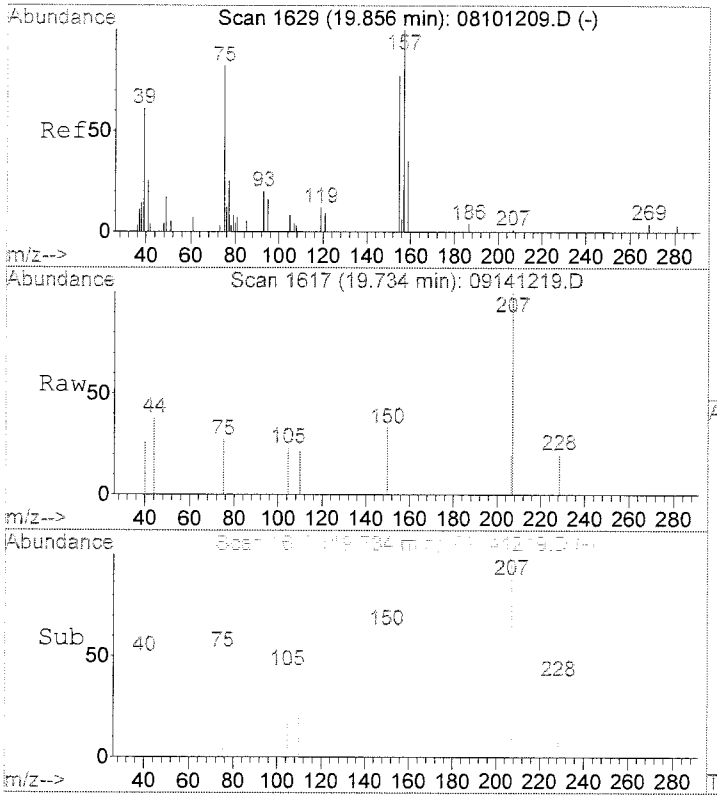


#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.59 min Scan# 1297
Delta R.T. -0.03 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 53 Resp: 93

Ion	Ratio	Lower	Upper
53	100		
89	100.0	50.5	75.7#
124	0.0	21.8	32.8#

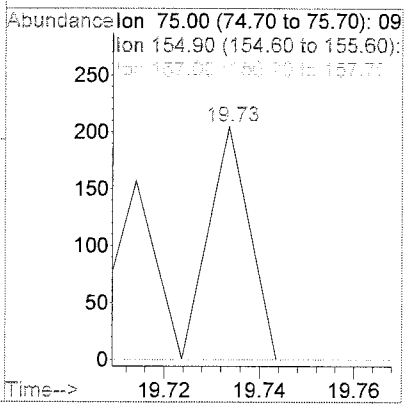


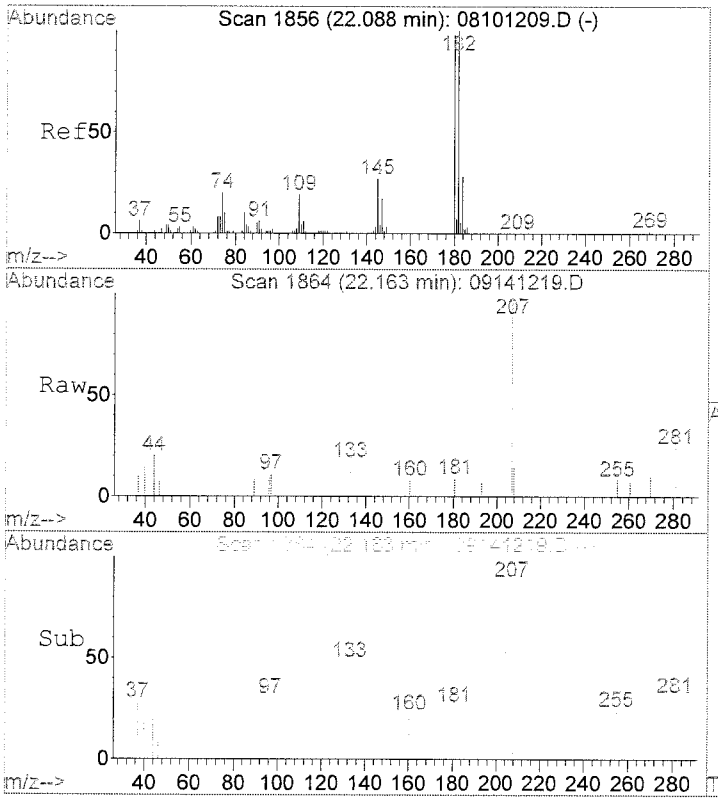


#82
1,2-Dibromo-3-chloropropane
Concen: 0.62 ug/L
RT: 19.73 min Scan# 1617
Delta R.T. -0.12 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion: 75 Resp: 121

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

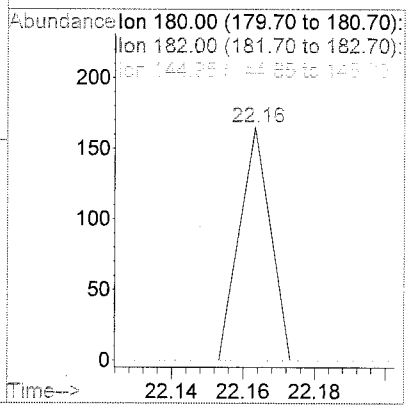




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.16 min Scan# 1864
Delta R.T. 0.08 min
Lab File: 09141219.D
Acq: 14 Sep 2012 4:11 pm

Tgt Ion:180 Resp: 97

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091612

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09161201.d	1.	TUNE		16 Sep 2012 08:28
2	2	09161202.d	1.	25 PPB CCV		16 Sep 2012 08:52
3	3	09161203.d	1.	12I0539-BS1		16 Sep 2012 09:25
4	4	09161204.d	1.	12I0539-BSD1		16 Sep 2012 09:58
5	5	09161205.d	1.	12I0539-BLK1		16 Sep 2012 10:31
6	6	09161206.d	1.	PVI0640-09@TB		16 Sep 2012 11:04
7	7	09161207.d	1.	PVI0717-01@TB		16 Sep 2012 11:36
8	8	09161208.d	1.	PVI0719-02@RB		16 Sep 2012 12:09
9	9	09161209.d	1.	PVI0720-03@TB		16 Sep 2012 12:41
10	10	09161210.d	1.	PVI0717-02		16 Sep 2012 13:14
11	11	09161211.d	1.	PVI0717-03	SOURCE	16 Sep 2012 13:47
12	12	09161212.d	1.	12I0539-MS1		16 Sep 2012 14:19
13	13	09161213.d	1.	12I0539-MSD1		16 Sep 2012 14:52
14	14	09161214.d	1.	PVI0640-05		16 Sep 2012 15:25
15	15	09161215.d	1.	PVI0729-01		16 Sep 2012 15:57
16	16	09161216.d	1.	PVI0678-01		16 Sep 2012 16:30
17	17	09161217.d	1.	PVI0719-01		16 Sep 2012 17:02
18	18	09161218.d	1.	PVI0728-02		16 Sep 2012 17:35
19	19	09161219.d	1.	PVI0728-03		16 Sep 2012 18:08
20	20	09161220.d	1.	PVI0728-04		16 Sep 2012 18:40
21	21	09161221.d	1.	PVI0728-05 DU 9/17/12		16 Sep 2012 19:13
22	22	09161222.d	1.	PVI0720-01		16 Sep 2012 19:45
23		09161223.d	1.	No MS or GC data present Archon Stopped		

9/17/12

LC 091712

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 091612 QC BATCH # (s) : 12I0539

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 091612.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	091612 01	tune	2 ul	NA	8260/624	NA	
2	02	25 ppb CCV	✓			H_2O	
3	03	12I0539 -BS1	✓				
4	04	-BSD1	✓				
5	05	-BLK1	✓				
6	06	PVI0640-09A	✓	✓			TB
7	07	0717-01A	✓	✓			TB
8	08	0719-02A	✓	✓			RB
9	09	0720-03A	✓	✓			TB
10	10	0717-02A	✓	✓			
11	11	-03A	✓	✓			same
12	12	12I0539-MS1	✓	✓			
13	13	-MSD1	✓	✓			
14	14	PVI0640-05A	✓	✓			
15	15	0729-01A	✓	✓			
16	16	0678-01K	✓	7			All 3 vials pH 7
17	17	0719-01A	✓	✓			
18	18	0728-02A	✓	✓			
19	19	-03A	✓	✓			
20	20	-04A	✓	✓			
21	21	-06 ~~05~~A	✓	✓			
22	22	0720-01 *	✓	✓			* composite ADGJ
23	23	-02 *	✓	✓			Archon stopped * composite ADGJ

EH 091612

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05604/5577

CCV/CALIBRATION STD: PV05635/5431

Internal Std: PV05519

IS/Surrogate/BFB: PV05503 / PV05230

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5ul CW std → 10ml H_2O

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: MM 9/17/12

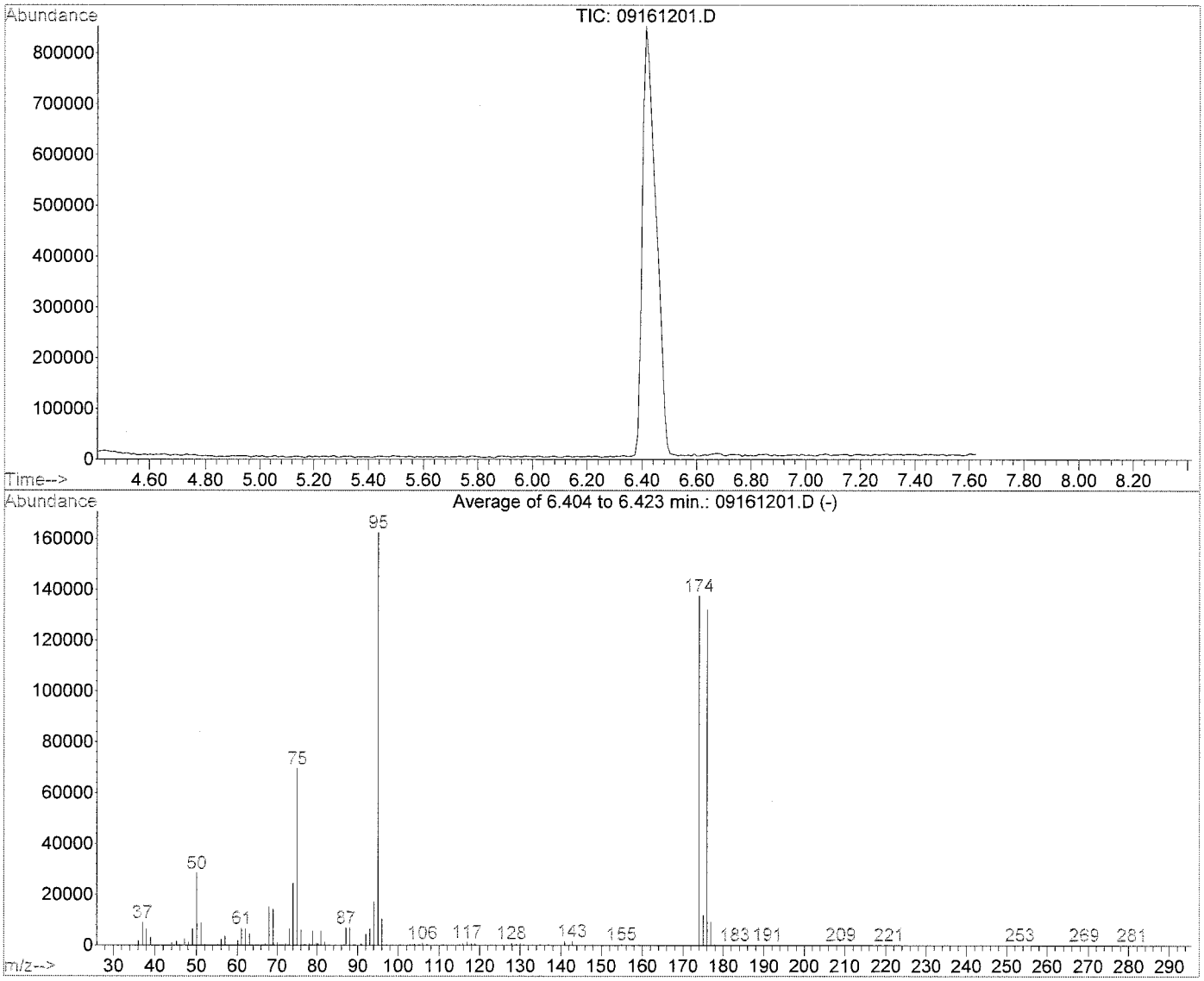
SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date:

PX-VOA-010/E-09/11

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161201.D Vial: 1
Acq On : 16 Sep 2012 8:28 am Operator: EH
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration



Spectrum Information: Average of 6.404 to 6.423 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	28341	PASS
75	95	30	60	42.8	69472	PASS
95	95	100	100	100.0	162411	PASS
96	95	5	9	6.4	10397	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.6	137464	PASS
175	174	5	9	8.6	11802	PASS
176	174	95	101	96.0	131963	PASS
177	176	5	9	7.0	9292	PASS

LC091712

09161201.D 081012.M Mon Sep 17 08:48:43 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09161202.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091612\
Operator	EH
Date Acquired	9/16/2012 8:52
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	73695	52594	26297	105188	TRUE
4)	Pentafluorobenzene	302861	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	406502	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	288649	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	121436	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	242.15	250	97%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	118.61	125	95%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	20.48	25	82%	60%	140%	TRUE	
6)	Chloromethane	21.56	25	86%	48%	144%	TRUE	
7)	Vinyl Chloride	24.36	25	97%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	23.88	25	96%	50%	141%	TRUE	
9)	Bromomethane	24.84	25	99%	40%	144%	TRUE	
10)	Chloroethane	23.98	25	96%	60%	132%	TRUE	
11)	Trichlorofluoromethane	27.35	25	109%	68%	136%	TRUE	
12)	Acetone	27.37	25	109%	12%	150%	TRUE	
13)	Iodomethane	24.63	25	99%	40%	160%	TRUE	
14)	1,1-Dichloroethene	24.75	25	99%	80%	120%	TRUE	CCC
15)	Methylene Chloride	24.12	25	96%	68%	128%	TRUE	
16)	Freon 113	27.08	25	108%	76%	124%	TRUE	
17)	Carbon disulfide	23.83	25	95%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	21.26	25	85%	76%	120%	TRUE	
19)	MTBE	22.78	25	91%	64%	140%	TRUE	
20)	1,1-Dichloroethane	22.61	25	90%	72%	124%	TRUE	
21)	Vinyl Acetate	19.90	25	80%	48%	150%	TRUE	
22)	n-Hexane	22.48	25	90%	56%	150%	TRUE	
23)	2-Butanone (MEK)	26.12	25	104%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	20.87	25	83%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	21.97	25	88%	72%	128%	TRUE	
26)	Bromochloromethane	22.93	25	92%	72%	132%	TRUE	
27)	Chloroform	23.54	25	94%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	27.85	25	111%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	23.19	25	93%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.18**	**25**	101%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	20.80	25	83%	64%	139%	TRUE	
32)	1,2-Dichloroethane	26.47	25	106%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	26.73	25	107%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	22.86	25	91%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.64	25	95%	76%	128%	TRUE	
37)	Carbon Tetrachloride	31.84	25	127%	72%	136%	TRUE	
38)	Benzene	22.63	25	91%	76%	120%	TRUE	

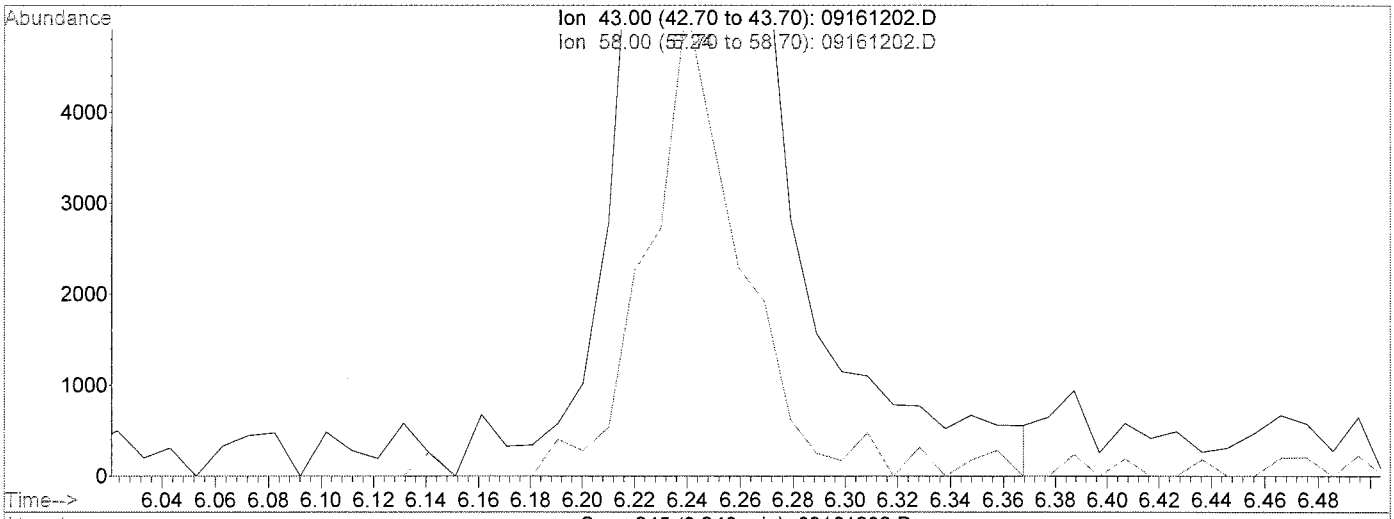
EM
LC 09/17/12

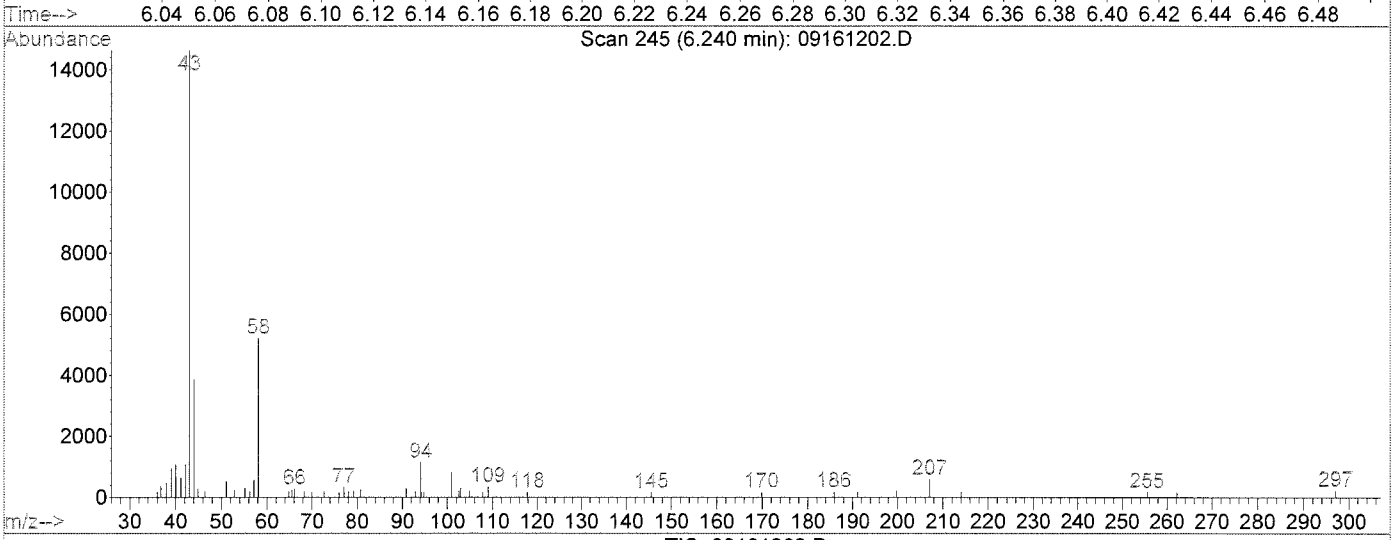
39) Dibromomethane	23.70	25	95%	72%	132%	TRUE	
40) 1,2-Dichloropropane	20.61	25	82%	80%	120%	TRUE	CCC
41) Trichloroethene	23.72	25	95%	80%	120%	TRUE	
42) Bromodichloromethane	25.77	25	103%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	16.70	25	67%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	23.89	25	96%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	21.27	25	85%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	25.10	25	100%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	24.39	25	98%	72%	132%	TRUE	
48) **Toluene-d8**	**24.33**	**25**	97%	80%	120%	**TRUE**	
49) Toluene	23.44	25	94%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	22.33	25	89%	80%	124%	TRUE	
52) 2-Hexanone	24.96	25	100%	52%	150%	TRUE	
53) Dibromochloromethane	26.96	25	108%	80%	128%	TRUE	
54) 1,2-Dibromoethane	24.24	25	97%	80%	128%	TRUE	
55) Tetrachloroethene	23.44	25	94%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	25.21	25	101%	76%	124%	TRUE	
57) Chlorobenzene	24.08	25	96%	80%	120%	TRUE	
58) Ethylbenzene	24.20	25	97%	80%	120%	TRUE	CCC
59) m,p-Xylenes	25.57	25	102%	80%	120%	TRUE	
60) Styrene	25.45	25	102%	84%	124%	TRUE	
61) o-Xylene	24.74	25	99%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**27.01**	**25**	108%	80%	120%	**TRUE**	
64) Bromoform	27.44	25	110%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	22.71	25	91%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	26.20	25	105%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	21.92	25	88%	48%	138%	TRUE	
68) Isopropylbenzene	25.03	25	100%	76%	132%	TRUE	
69) Bromobenzene	24.03	25	96%	76%	128%	TRUE	
70) n-Propylbenzene	24.33	25	97%	76%	132%	TRUE	
71) 2-Chlorotoluene	25.14	25	101%	80%	124%	TRUE	
72) 4-Chlorotoluene	24.85	25	99%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	25.92	25	104%	80%	128%	TRUE	
74) tert-Butylbenzene	26.81	25	107%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	26.66	25	107%	80%	128%	TRUE	
76) sec-Butylbenzene	25.58	25	102%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	23.76	25	95%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	23.35	25	93%	76%	120%	TRUE	
79) p-Isopropyltoluene	26.69	25	107%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	24.01	25	96%	80%	124%	TRUE	
81) n-Butylbenzene	25.42	25	102%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	29.05	25	116%	64%	128%	TRUE	
83) 1,2,4-Trichlorobenzene	26.91	25	108%	76%	128%	TRUE	
84) Napthalene	25.35	25	101%	68%	136%	TRUE	
85) Hexachlorobutadiene	35.14	25	141%	76%	132%	FALSE	
86) 1,2,3-Trichlorobenzene	27.12	25	108%	72%	128%	TRUE	

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:48 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





(12) Acetone (T)

6.24min 35.72ug/L

response 45538

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.39
0.00	0.00	0.00
0.00	0.00	0.00

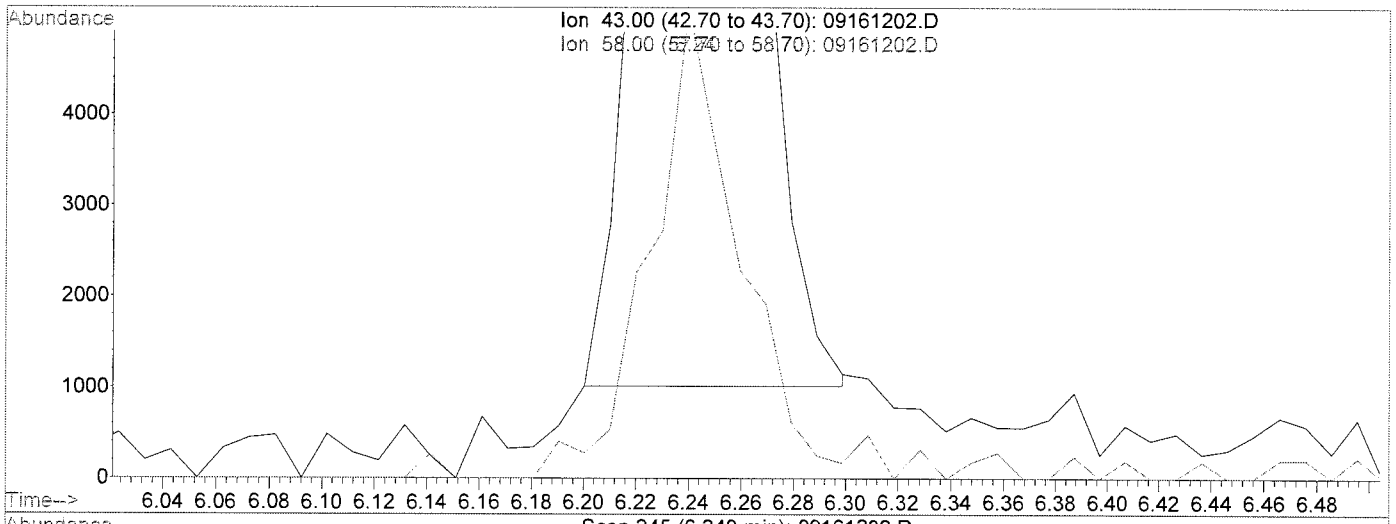
Before-BT
LC 09/17/12

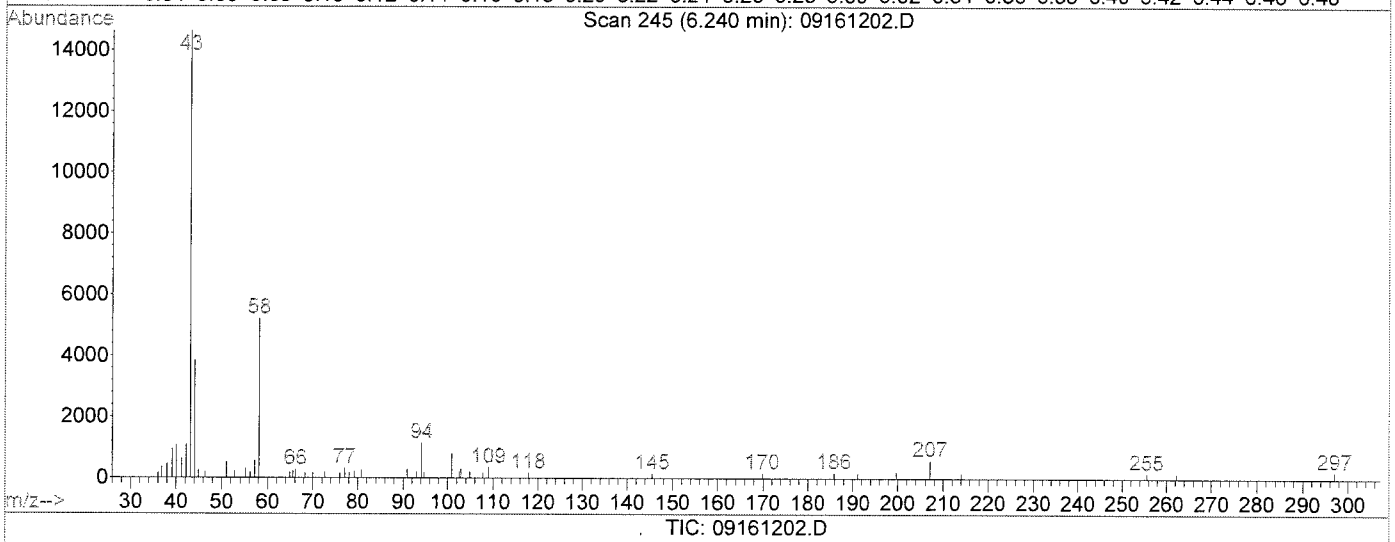
09161202.D 081012.M Mon Sep 17 08:49:04 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161202.D

(12) Acetone (T)

6.24min 27.37ug/L m

response 34899

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	34.43
0.00	0.00	0.00
0.00	0.00	0.00

temp

After 10/09/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	73695	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.82	168	302861	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	406502	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	288649	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	121436	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	133370	25.18 ug/L	-0.02
Spiked Amount 25.000			Recovery =	100.72%	
48) Toluene-d8	13.31	98	390637	24.33 ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.32%	
62) 4-Bromofluorobenzene	16.94	95	120460	27.01 ug/L	-0.01
Spiked Amount 25.000			Recovery =	108.04%	

Target Compounds					Qvalue
2) Ethanol	5.48	45	9621	242.15 ug/L	87
3) tert-Butanol (TBA)	6.81	59	51129	118.61 ug/L	98
5) Dichlorodifluoromethane	4.10	85	227618	20.48 ug/L	97
6) Chloromethane	4.34	50	233201	21.56 ug/L	99
7) Vinyl Chloride	4.62	62	241093	24.36 ug/L	98
8) 1,3-Butadiene	4.77	54	127855	23.88 ug/L	96
9) Bromomethane	5.18	94	150149	24.84 ug/L	95
10) Chloroethane	5.37	64	117721	23.98 ug/L	100
11) Trichlorofluoromethane	6.10	101	239254	27.35 ug/L	98
12) Acetone	6.24	43	34899m	27.37 ug/L	
13) Iodomethane	6.84	142	251786	24.63 ug/L	92
14) 1,1-Dichloroethene	6.79	96	150674	24.75 ug/L	94
15) Methylene Chloride	6.98	84	130765	24.12 ug/L	95
16) Freon 113	7.06	101	170782	27.08 ug/L	98
17) Carbon disulfide	7.28	76	471900	23.83 ug/L	96
18) trans-1,2-Dichloroethene	7.84	96	150153	21.26 ug/L	98
19) MTBE	7.98	73	227409	22.78 ug/L	98
20) 1,1-Dichloroethane	8.16	63	247956	22.61 ug/L	100
21) Vinyl Acetate	8.32	43	154646	19.90 ug/L	100
22) n-Hexane	8.68	86	38965	22.48 ug/L	73
23) 2-Butanone (MEK)	8.71	72	11394	26.12 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.72	45	386383	20.87 ug/L #	59
25) cis-1,2-Dichloroethene	8.90	96	141248	21.97 ug/L	98
26) Bromochloromethane	9.10	128	58512	22.93 ug/L	96
27) Chloroform	9.16	83	225807	23.54 ug/L #	94
28) 2,2-Dichloropropane	9.26	77	202242	27.85 ug/L	96
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	309905	23.19 ug/L	98
31) Tetrahydrofuran	9.57	72	8252	20.80 ug/L	84
32) 1,2-Dichloroethane	10.00	62	122502	26.47 ug/L	94
33) 1,1,1-Trichloroethane	10.13	97	214728	26.73 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	246202	22.86 ug/L	99
36) 1,1-Dichloropropene	10.36	75	205523	23.64 ug/L	99
37) Carbon Tetrachloride	10.59	117	216999	31.84 ug/L	98
38) Benzene	10.65	78	469363	22.63 ug/L	96
39) Dibromomethane	11.37	93	58026	23.70 ug/L	97
40) 1,2-Dichloropropane	11.41	63	101873	20.61 ug/L #	88

(#) = qualifier out of range (m) = manual integration
09161202.D 081012.M Mon Sep 17 08:49:16 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:49 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

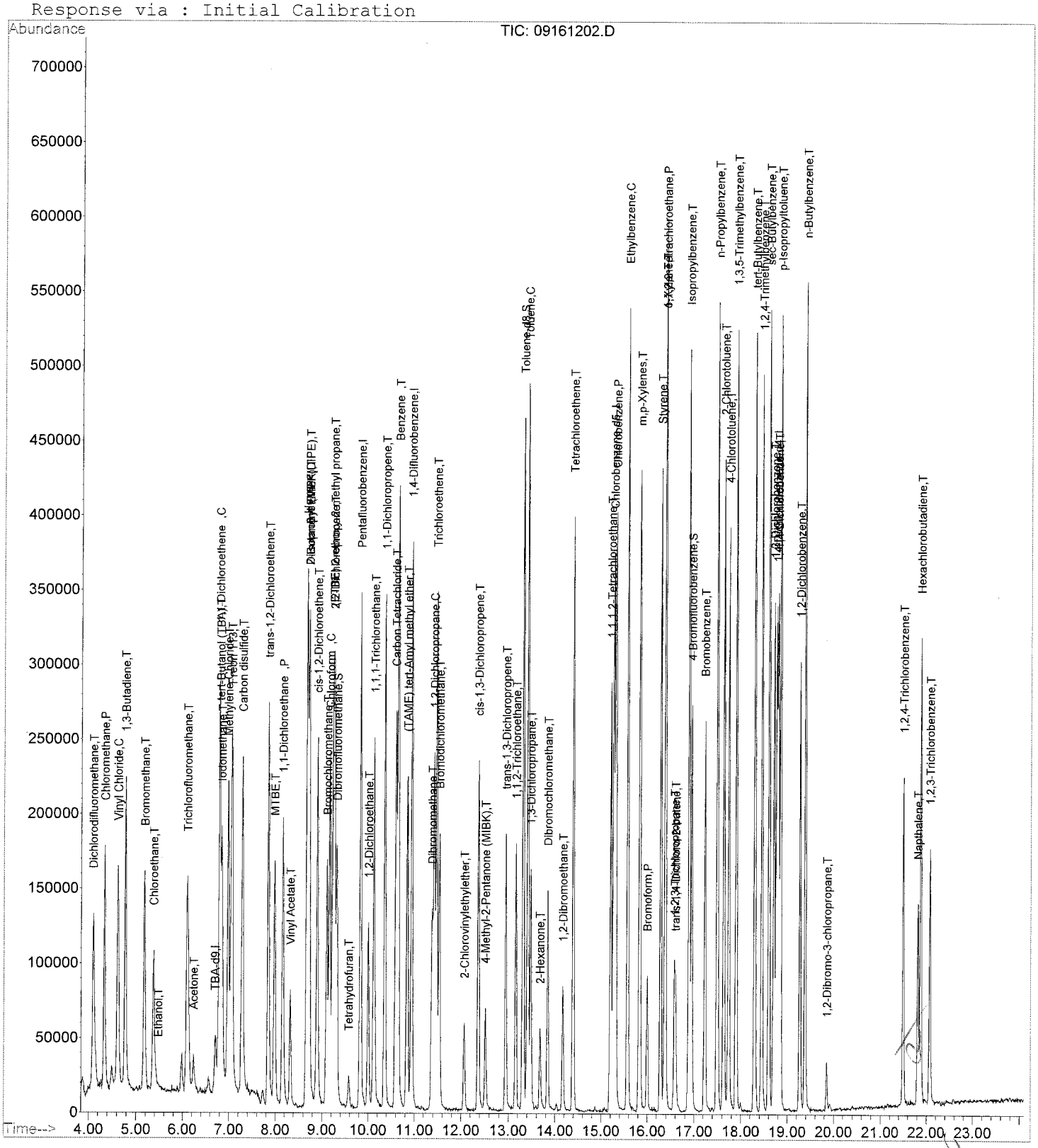
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.47	95	137947	23.72 ug/L	97
42)	Bromodichloromethane	11.53	83	146567	25.77 ug/L	99
43)	2-Chlorovinylethylether	12.07	63	31197	16.70 ug/L	96
44)	cis-1,3-Dichloropropene	12.37	75	158416	23.89 ug/L	93
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	63346	21.27 ug/L	98
46)	trans-1,3-Dichloropropene	12.94	75	126583	25.10 ug/L	98
47)	1,1,2-Trichloroethane	13.15	97	70126	24.39 ug/L	98
49)	Toluene	13.40	92	276483	23.44 ug/L	98
51)	1,3-Dichloropropane	13.47	76	114458	22.33 ug/L	98
52)	2-Hexanone	13.68	43	53479	24.96 ug/L	96
53)	Dibromochloromethane	13.83	129	100194	26.96 ug/L	100
54)	1,2-Dibromoethane	14.17	107	75488	24.24 ug/L	97
55)	Tetrachloroethene	14.39	164	119209	23.44 ug/L	98
56)	1,1,1,2-Tetrachloroethane	15.20	131	102703	25.21 ug/L	97
57)	Chlorobenzene	15.31	112	285313	24.08 ug/L	98
58)	Ethylbenzene	15.56	91	500871	24.20 ug/L	100
59)	m,p-Xylenes	15.83	106	201917	25.57 ug/L	99
60)	Styrene	16.28	104	269155	25.45 ug/L	98
61)	o-Xylene	16.38	106	180529	24.74 ug/L	99
64)	Bromoform	16.00	173	57349	27.44 ug/L	97
65)	1,1,2,2-Tetrachloroethane	16.37	83	74079	22.71 ug/L #	98
66)	1,2,3-Trichloropropane	16.58	110	20593	26.20 ug/L	95
67)	trans-1,4-Dichloro-2-buten	16.61	53	17441	21.92 ug/L	96
68)	Isopropylbenzene	16.88	105	454027	25.03 ug/L	100
69)	Bromobenzene	17.23	156	106186	24.03 ug/L	97
70)	n-Propylbenzene	17.49	91	560239	24.33 ug/L	100
71)	2-Chlorotoluene	17.63	91	312967	25.14 ug/L	99
72)	4-Chlorotoluene	17.74	91	302518	24.85 ug/L	97
73)	1,3,5-Trimethylbenzene	17.90	105	366678	25.92 ug/L	99
74)	tert-Butylbenzene	18.29	119	338744	26.81 ug/L	97
75)	1,2,4-Trimethylbenzene	18.45	105	356731	26.66 ug/L	98
76)	sec-Butylbenzene	18.59	105	523024	25.58 ug/L	100
77)	1,3-Dichlorobenzene	18.70	146	191106	23.76 ug/L	97
78)	1,4-Dichlorobenzene	18.80	146	184125	23.35 ug/L	96
79)	p-Isopropyltoluene	18.84	119	408791	26.69 ug/L	99
80)	1,2-Dichlorobenzene	19.26	146	157231	24.01 ug/L	98
81)	n-Butylbenzene	19.38	91	373425	25.42 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.84	75	9522	29.05 ug/L	94
83)	1,2,4-Trichlorobenzene	21.50	180	94501	26.91 ug/L	98
84)	Napthalene	21.81	128	142408	25.35 ug/L	98
85)	Hexachlorobutadiene	21.87	225	83059	35.14 ug/L	96
86)	1,2,3-Trichlorobenzene	22.08	180	76917	27.12 ug/L	96

(#) = qualifier out of range (m) = manual integration
09161202.D 081012.M Mon Sep 17 08:49:16 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:49 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	140	-0.01
2	T	Ethanol	0.108	0.104	3.7	144	0.09
3	T	tert-Butanol (TBA)	1.170	1.110	5.1	130	-0.02
4	I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.02
5	T	Dichlorodifluoromethane	0.917	0.752	18.0	88	-0.01
6	P	Chloromethane	0.893	0.770	13.8	94	-0.01
7	C	Vinyl Chloride	0.817	0.796	2.6	103	-0.01
8	T	1,3-Butadiene	0.442	0.422	4.5	101	-0.01
9	T	Bromomethane	0.499	0.496	0.6	110	-0.01
10	T	Chloroethane	0.405	0.389	4.0	102	0.00
11	T	Trichlorofluoromethane	0.722	0.790	-9.4	117	-0.01
12	T	Acetone	0.105	0.115	-9.5	106	-0.02
13	T	Iodomethane	0.844	0.831	1.5	108	-0.02
14	C	1,1-Dichloroethene	0.503	0.498	1.0	114	-0.02
15	T	Methylene Chloride	0.448	0.432	3.6	109	-0.02
16	T	Freon 113	0.521	0.564	-8.3	117	-0.01
17	T	Carbon disulfide	1.635	1.558	4.7	101	-0.01
18	T	trans-1,2-Dichloroethene	0.583	0.496	14.9	96	-0.02
19	T	MTBE	0.824	0.751	8.9	100	-0.02
20	P	1,1-Dichloroethane	0.905	0.819	9.5	99	-0.02
21	T	Vinyl Acetate	0.642	0.511	20.4	86	-0.01
22		n-Hexane	0.143	0.129	9.8	101	-0.01
23	T	2-Butanone (MEK)	0.036	0.038#	-5.6	105	-0.02
24	T	Diisopropyl Ether (DIPE)	1.528	1.276	16.5	93	-0.02
25	T	cis-1,2-Dichloroethene	0.531	0.466	12.2	98	-0.01
26	T	Bromochloromethane	0.211	0.193	8.5	100	-0.01
27	C	Chloroform	0.792	0.746	5.8	101	-0.01
28	T	2,2-Dichloropropane	0.599	0.668	-11.5	124	-0.01
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	1.023	7.3	104	-0.01
30	S	Dibromofluoromethane	0.437	0.440	-0.7	110	-0.02
31	T	Tetrahydrofuran	0.033	0.027#	18.2	102	-0.02
32	T	1,2-Dichloroethane	0.382	0.404	-5.8	116	-0.01
33	T	1,1,1-Trichloroethane	0.663	0.709	-6.9	113	-0.01
34	T	(TAME) tert-Amyl methyl eth	0.889	0.813	8.5	102	-0.01
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	-0.02
36	T	1,1-Dichloropropene	0.535	0.506	5.4	100	-0.01
37	T	Carbon Tetrachloride	0.419	0.534	-27.4	132	-0.02
38	T	Benzene	1.276	1.155	9.5	94	-0.01
39	T	Dibromomethane	0.151	0.143	5.3	100	-0.01
40	C	1,2-Dichloropropane	0.304	0.251	17.4	86	-0.02
41	T	Trichloroethene	0.358	0.339	5.3	98	-0.01
42	T	Bromodichloromethane	0.350	0.361	-3.1	104	-0.02
43	T	2-Chlorovinylethylether	0.115	0.077#	33.0#	70	-0.01
44	T	cis-1,3-Dichloropropene	0.408	0.390	4.4	96	-0.02
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.156	14.8	95	-0.01
46	T	trans-1,3-Dichloropropene	0.310	0.311	-0.3	102	-0.01
47	T	1,1,2-Trichloroethane	0.177	0.173	2.3	97	-0.01
48	S	Toluene-d8	0.987	0.961	2.6	101	-0.01

(#) = Out of Range

09161202.D 081012.M Mon Sep 17 08:49:20 2012

LC 091712

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161202.D Vial: 2
Acq On : 16 Sep 2012 8:52 am Operator: EH
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

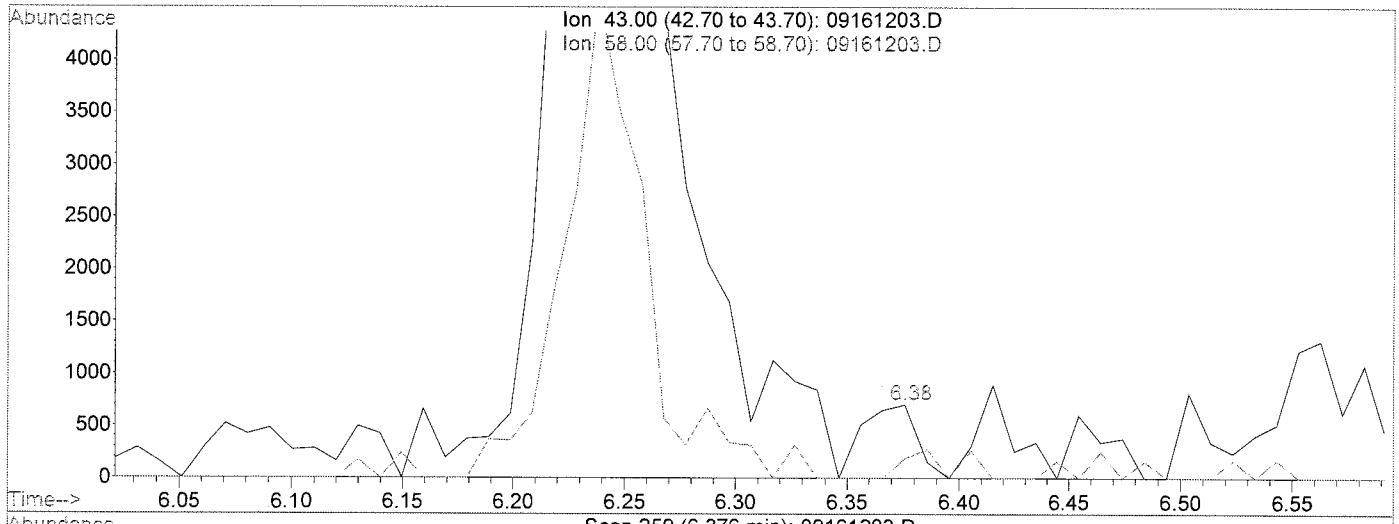
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.680	6.3	98	-0.02
50	I	Chlorobenzene-d5	1.000	1.000	0.0	106	-0.01
51	T	1,3-Dichloropropane	0.444	0.397	10.6	92	-0.02
52	T	2-Hexanone	0.186	0.185	0.5	101	-0.01
53	T	Dibromochloromethane	0.322	0.347	-7.8	109	-0.02
54	T	1,2-Dibromoethane	0.270	0.262	3.0	99	-0.01
55	T	Tetrachloroethene	0.440	0.413	6.1	95	-0.01
56	T	1,1,1,2-Tetrachloroethane	0.353	0.356	-0.8	100	-0.01
57	P	Chlorobenzene	1.026	0.988	3.7	99	-0.01
58	C	Ethylbenzene	1.793	1.735	3.2	98	-0.02
59	T	m,p-Xylenes	0.684	0.700	-2.3	103	-0.01
60	T	Styrene	0.916	0.932	-1.7	99	-0.01
61	T	o-Xylene	0.632	0.625	1.1	101	-0.01
62	S	4-Bromofluorobenzene	0.386	0.417	-8.0	115	-0.01
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	-0.01
64	P	Bromoform	0.430	0.472	-9.8	109	-0.01
65	P	1,1,2,2-Tetrachloroethane	0.672	0.610	9.2	92	-0.02
66	T	1,2,3-Trichloropropane	0.162	0.170	-4.9	106	-0.01
67	T	trans-1,4-Dichloro-2-butene	0.150	0.144	4.0	93	-0.01
68	T	Isopropylbenzene	3.734	3.739	-0.1	101	-0.01
69	T	Bromobenzene	0.910	0.874	4.0	94	-0.02
70	T	n-Propylbenzene	4.740	4.613	2.7	97	-0.01
71	T	2-Chlorotoluene	2.563	2.577	-0.5	103	-0.01
72	T	4-Chlorotoluene	2.506	2.491	0.6	102	-0.01
73	T	1,3,5-Trimethylbenzene	2.912	3.020	-3.7	101	-0.01
74	T	tert-Butylbenzene	2.601	2.789	-7.2	105	-0.01
75	T	1,2,4-Trimethylbenzene	2.755	2.938	-6.6	106	-0.01
76	T	sec-Butylbenzene	4.209	4.307	-2.3	99	-0.01
77	T	1,3-Dichlorobenzene	1.656	1.574	5.0	95	-0.01
78	T	1,4-Dichlorobenzene	1.623	1.516	6.6	94	-0.01
79	T	p-Isopropyltoluene	3.154	3.366	-6.7	102	-0.01
80	T	1,2-Dichlorobenzene	1.348	1.295	3.9	94	-0.01
81	T	n-Butylbenzene	3.024	3.075	-1.7	96	-0.01
82	T	1,2-Dibromo-3-chloropropane	0.063	0.078#	-23.8	103	-0.01
83	T	1,2,4-Trichlorobenzene	0.723	0.778	-7.6	99	-0.01
84	T	Napthalene	1.156	1.173	-1.5	93	-0.01
85	T	Hexachlorobutadiene	0.549	0.684	-24.6	116	-0.01
86	T	1,2,3-Trichlorobenzene	0.602	0.633	-5.1	99	-0.01

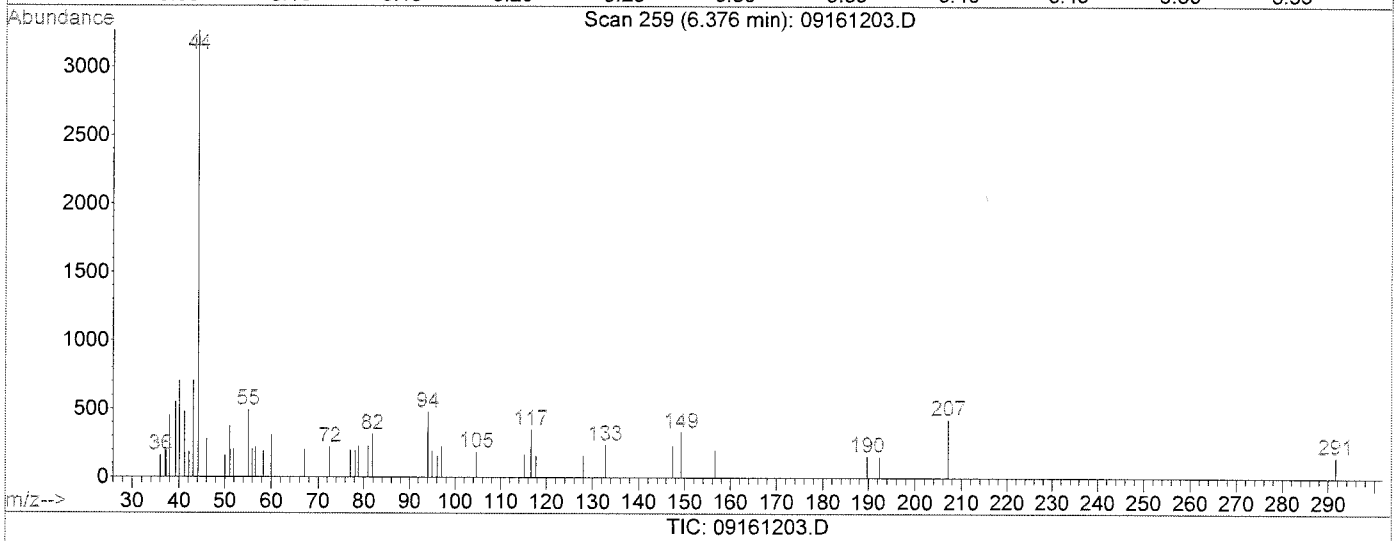
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161203.D Vial: 3
Acq On : 16 Sep 2012 9:25 am Operator: EH
Sample : 12I0539-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161203.D

(12) Acetone (T)

6.38min 1.11ug/L

response 1189

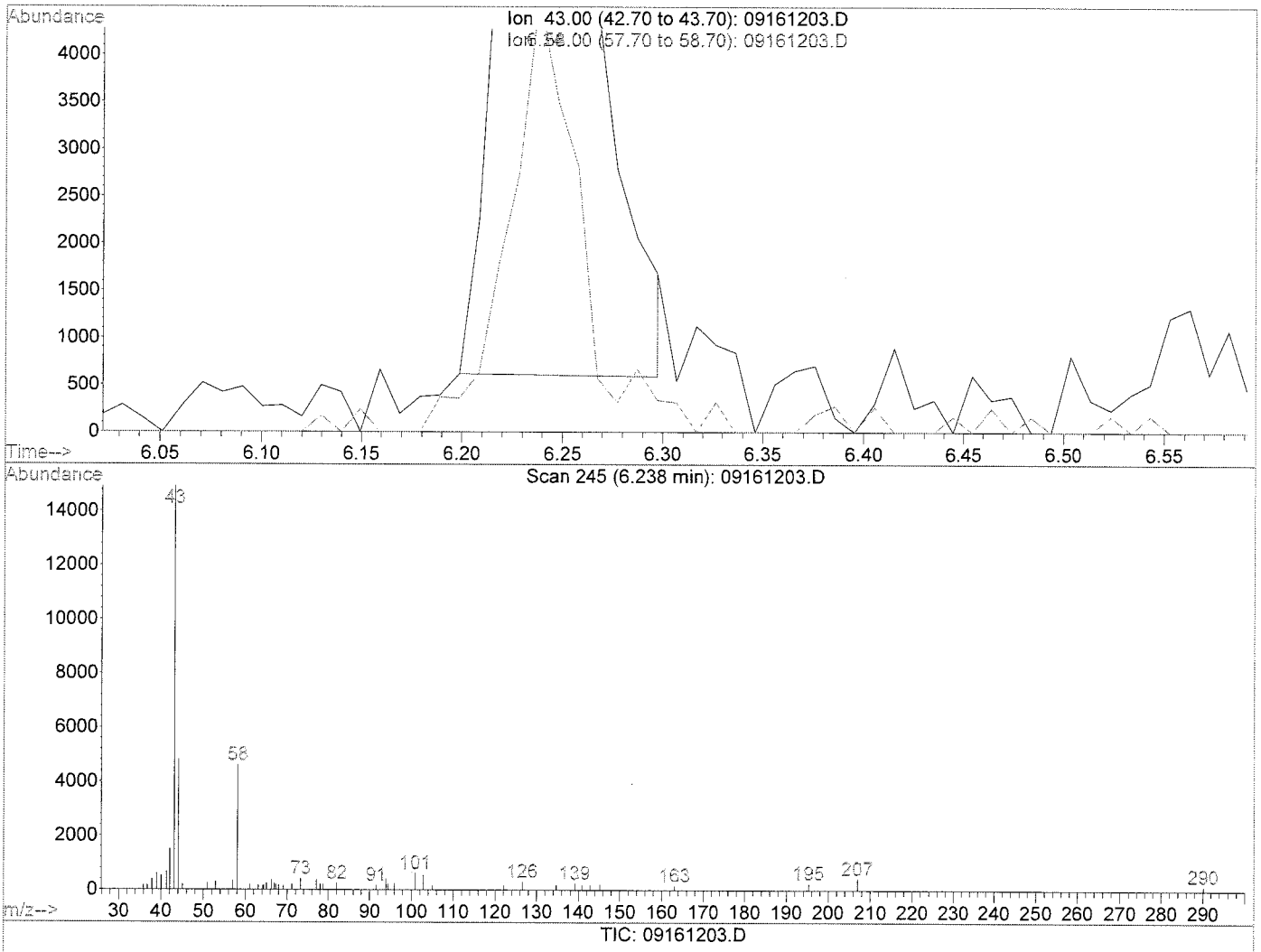
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	36.16
0.00	0.00	0.00
0.00	0.00	0.00

Before-WRT
LC 091712

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161203.D Vial: 3
Acq On : 16 Sep 2012 9:25 am Operator: EH
Sample : 12I0539-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.24min 33.67ug/L m

response 36094

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	1.19#
0.00	0.00	0.00
0.00	0.00	0.00

Gar

After Recalib

09161203.D 081012.M Mon Sep 17 08:50:24 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161203.D Vial: 3
Acq On : 16 Sep 2012 9:25 am Operator: EH
Sample : 12I0539-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	60263	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	254673	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	353146	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.26	117	260317	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	18.76	152	107146	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	111548	25.04 ug/L	-0.01
Spiked Amount 25.000			Recovery =	100.16%	
48) Toluene-d8	13.31	98	334122	23.96 ug/L	-0.01
Spiked Amount 25.000			Recovery =	95.84%	
62) 4-Bromofluorobenzene	16.94	95	102584	25.50 ug/L	-0.01
Spiked Amount 25.000			Recovery =	102.00%	

Target Compounds					Qvalue
2) Ethanol	5.39	45	34974	1076.47 ug/L #	62
3) tert-Butanol (TBA)	6.82	59	42499	120.56 ug/L	96
5) Dichlorodifluoromethane	4.10	85	258690	27.68 ug/L	99
6) Chloromethane	4.34	50	224623	24.70 ug/L	97
7) Vinyl Chloride	4.62	62	198352	23.83 ug/L	97
8) 1,3-Butadiene	4.77	54	159741	35.49 ug/L	97
9) Bromomethane	5.18	94	127032	24.99 ug/L	99
10) Chloroethane	5.37	64	95788	23.21 ug/L	98
11) Trichlorofluoromethane	6.09	101	233113	31.69 ug/L	98
12) Acetone	6.24	43	36094m	33.67 ug/L	
13) Iodomethane	6.84	142	232233	27.01 ug/L #	90
14) 1,1-Dichloroethene	6.79	96	129303	25.25 ug/L	99
15) Methylene Chloride	6.98	84	101904	22.35 ug/L	95
16) Freon 113	7.05	101	150348	28.35 ug/L	98
17) Carbon disulfide	7.28	76	404287	24.28 ug/L	96
18) trans-1,2-Dichloroethene	7.84	96	128756	21.68 ug/L	97
19) MTBE	7.99	73	185278	22.07 ug/L	95
20) 1,1-Dichloroethane	8.16	63	183201	19.87 ug/L	99
21) Vinyl Acetate	8.32	43	122293	18.71 ug/L	97
22) n-Hexane	8.68	86	29904	20.52 ug/L	87
23) 2-Butanone (MEK)	8.71	72	10664	29.07 ug/L #	68
24) Diisopropyl Ether (DIPE)	8.72	45	303206	19.48 ug/L	91
25) cis-1,2-Dichloroethene	8.89	96	112167	20.75 ug/L	98
26) Bromochloromethane	9.10	128	45098	21.02 ug/L	91
27) Chloroform	9.16	83	172845	21.43 ug/L #	97
28) 2,2-Dichloropropane	9.26	77	156308	25.60 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	225224	20.04 ug/L	99
31) Tetrahydrofuran	9.58	72	5344	16.02 ug/L	82
32) 1,2-Dichloroethane	10.00	62	98794	25.39 ug/L	95
33) 1,1,1-Trichloroethane	10.12	97	172854	25.59 ug/L	98
34) (TAME) tert-Amyl methyl et	10.84	73	183549	20.26 ug/L	97
36) 1,1-Dichloropropene	10.36	75	138165	18.29 ug/L	98
37) Carbon Tetrachloride	10.60	117	156303	26.40 ug/L	97
38) Benzene	10.64	78	361815	20.08 ug/L	96
39) Dibromomethane	11.37	93	46982	22.08 ug/L	93
40) 1,2-Dichloropropane	11.42	63	80711	18.80 ug/L #	89

(#) = qualifier out of range (m) = manual integration
09161203.D 081012.M Mon Sep 17 08:50:33 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161203.D Vial: 3
Acq On : 16 Sep 2012 9:25 am Operator: EH
Sample : 12I0539-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

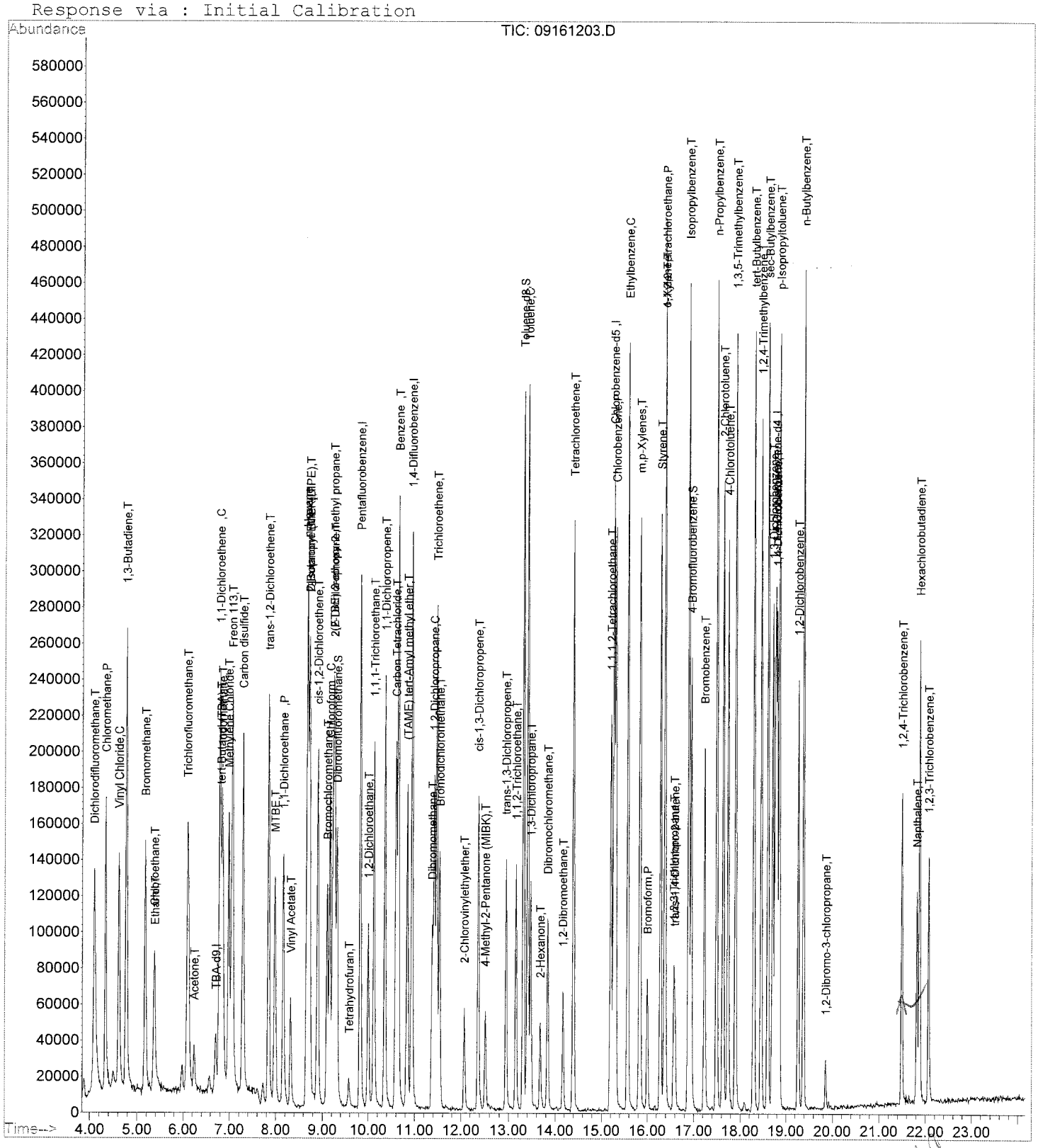
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.47	95	111173	22.01 ug/L	97
42) Bromodichloromethane	11.53	83	113350	22.94 ug/L	98
43) 2-Chlorovinylethylether	12.07	63	29490	18.17 ug/L	97
44) cis-1,3-Dichloropropene	12.37	75	126881	22.02 ug/L	94
45) 4-Methyl-2-Pentanone (MIBK	12.51	43	48979	18.93 ug/L	96
46) trans-1,3-Dichloropropene	12.94	75	98640	22.51 ug/L	97
47) 1,1,2-Trichloroethane	13.15	97	53533	21.43 ug/L	94
49) Toluene	13.41	92	228367	22.28 ug/L	96
51) 1,3-Dichloropropane	13.47	76	92855	20.09 ug/L	100
52) 2-Hexanone	13.66	43	45240	23.41 ug/L	93
53) Dibromochloromethane	13.83	129	76802	22.92 ug/L	98
54) 1,2-Dibromoethane	14.17	107	58793	20.93 ug/L	96
55) Tetrachloroethene	14.39	164	94286	20.56 ug/L	97
56) 1,1,1,2-Tetrachloroethane	15.20	131	82262	22.39 ug/L	99
57) Chlorobenzene	15.31	112	230520	21.57 ug/L	99
58) Ethylbenzene	15.57	91	412110	22.08 ug/L	100
59) m,p-Xylenes	15.83	106	159739	22.43 ug/L	96
60) Styrene	16.28	104	215803	22.63 ug/L	98
61) o-Xylene	16.38	106	147280	22.38 ug/L	95
64) Bromoform	16.00	173	46456	25.19 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.38	83	61903	21.51 ug/L	96
66) 1,2,3-Trichloropropane	16.58	110	16270	23.46 ug/L	94
67) trans-1,4-Dichloro-2-buten	16.60	53	13205	18.96 ug/L	95
68) Isopropylbenzene	16.88	105	409116	25.57 ug/L	100
69) Bromobenzene	17.24	156	86212	22.11 ug/L	98
70) n-Propylbenzene	17.49	91	471482	23.21 ug/L	96
71) 2-Chlorotoluene	17.63	91	253486	23.08 ug/L	97
72) 4-Chlorotoluene	17.74	91	246691	22.97 ug/L	97
73) 1,3,5-Trimethylbenzene	17.89	105	318634	25.53 ug/L	97
74) tert-Butylbenzene	18.29	119	278182	24.96 ug/L	97
75) 1,2,4-Trimethylbenzene	18.44	105	280700	23.78 ug/L	99
76) sec-Butylbenzene	18.59	105	440763	24.44 ug/L	98
77) 1,3-Dichlorobenzene	18.70	146	158040	22.27 ug/L	97
78) 1,4-Dichlorobenzene	18.80	146	146278	21.03 ug/L	98
79) p-Isopropyltoluene	18.85	119	334964	24.78 ug/L	98
80) 1,2-Dichlorobenzene	19.26	146	127540	22.07 ug/L	99
81) n-Butylbenzene	19.38	91	294562	22.73 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.85	75	6661	22.85 ug/L #	82
83) 1,2,4-Trichlorobenzene	21.49	180	77482	25.01 ug/L	94
84) Napthalene	21.81	128	122069	24.63 ug/L	98
85) Hexachlorobutadiene	21.88	225	72409	34.69 ug/L	98
86) 1,2,3-Trichlorobenzene	22.07	180	62437	24.84 ug/L	95

(#) = qualifier out of range (m) = manual integration
09161203.D 081012.M Mon Sep 17 08:50:33 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161203.D Vial: 3
Acq On : 16 Sep 2012 9:25 am Operator: EH
Sample : 12I0539-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

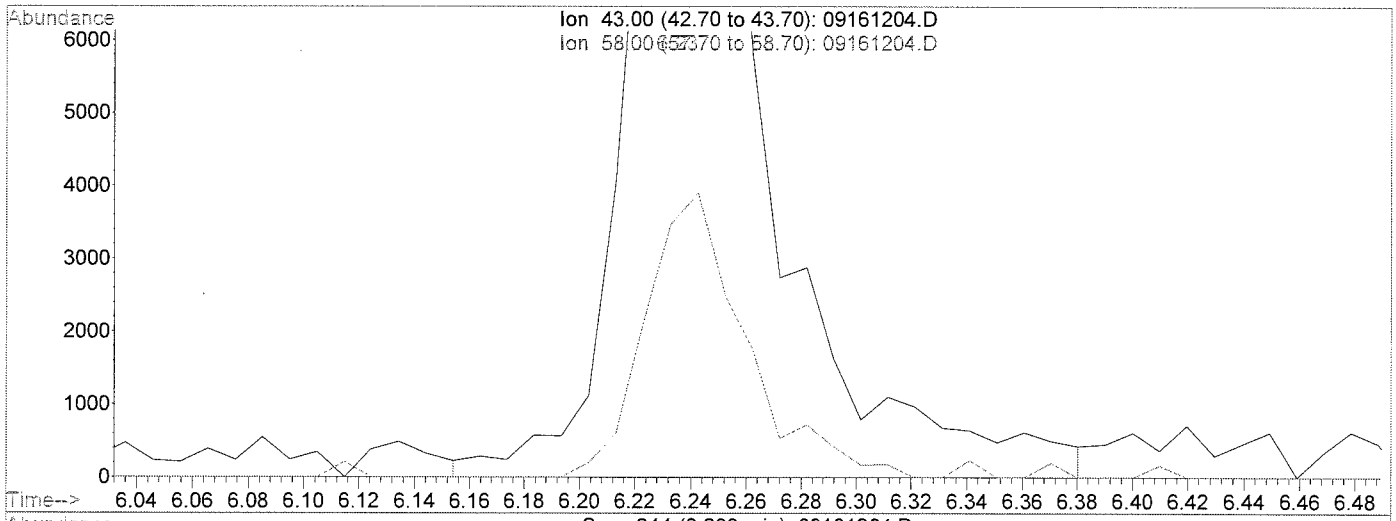
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

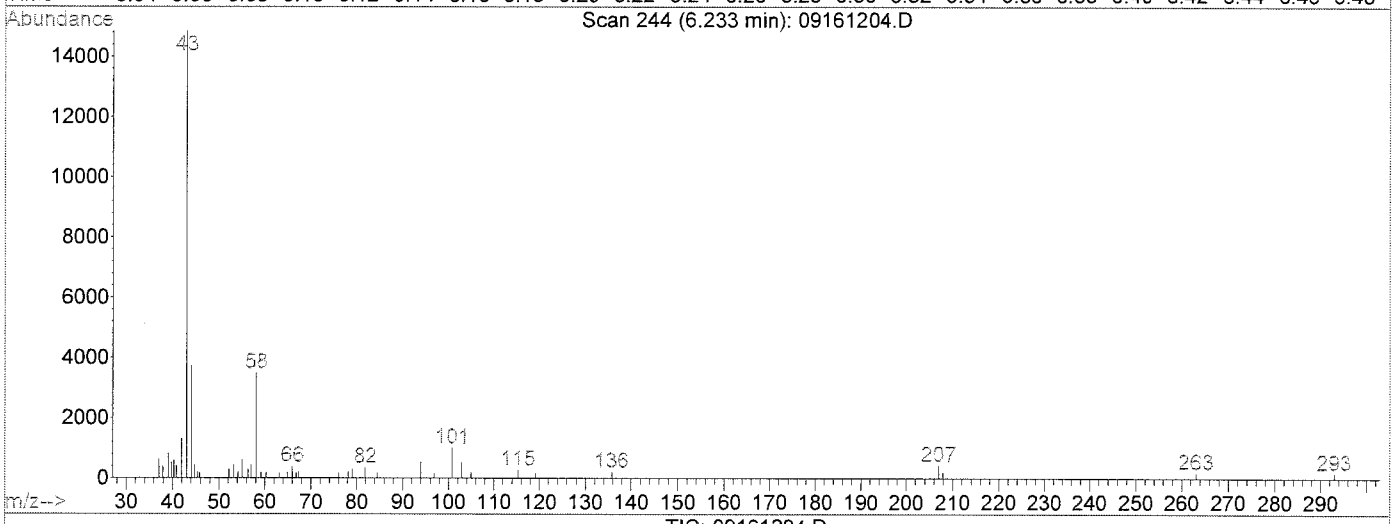


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161204.D Vial: 4
Acq On : 16 Sep 2012 9:58 am Operator: EH
Sample : 12I0539-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161204.D

(12) Acetone (T)

6.23min 40.28ug/L

response 43717

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	22.33#
0.00	0.00	0.00
0.00	0.00	0.00

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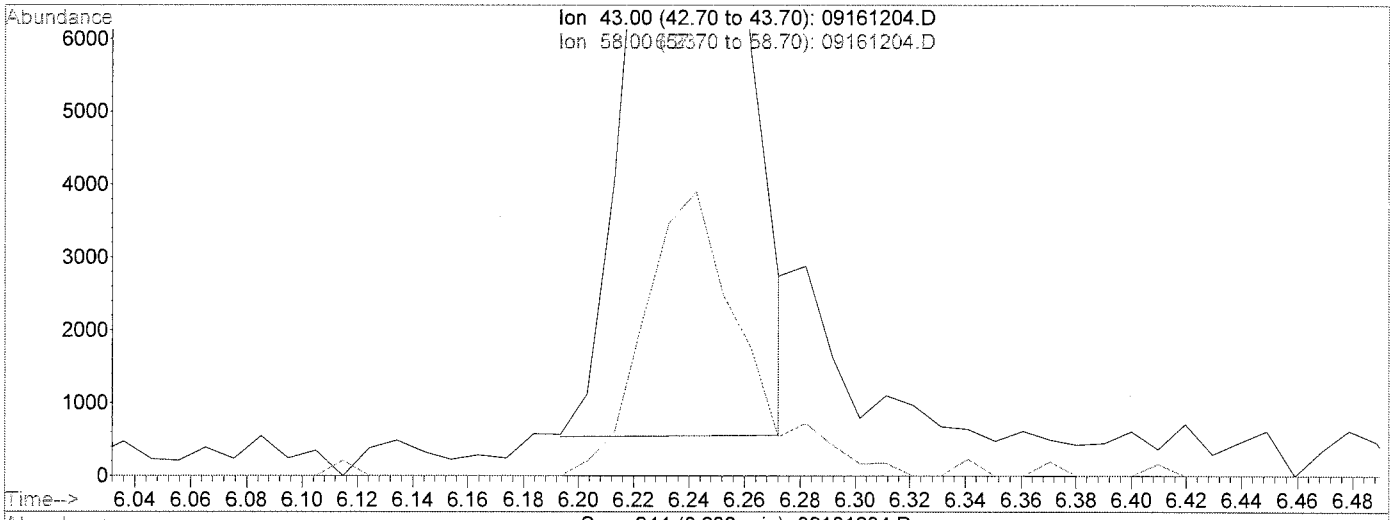
10/09/12

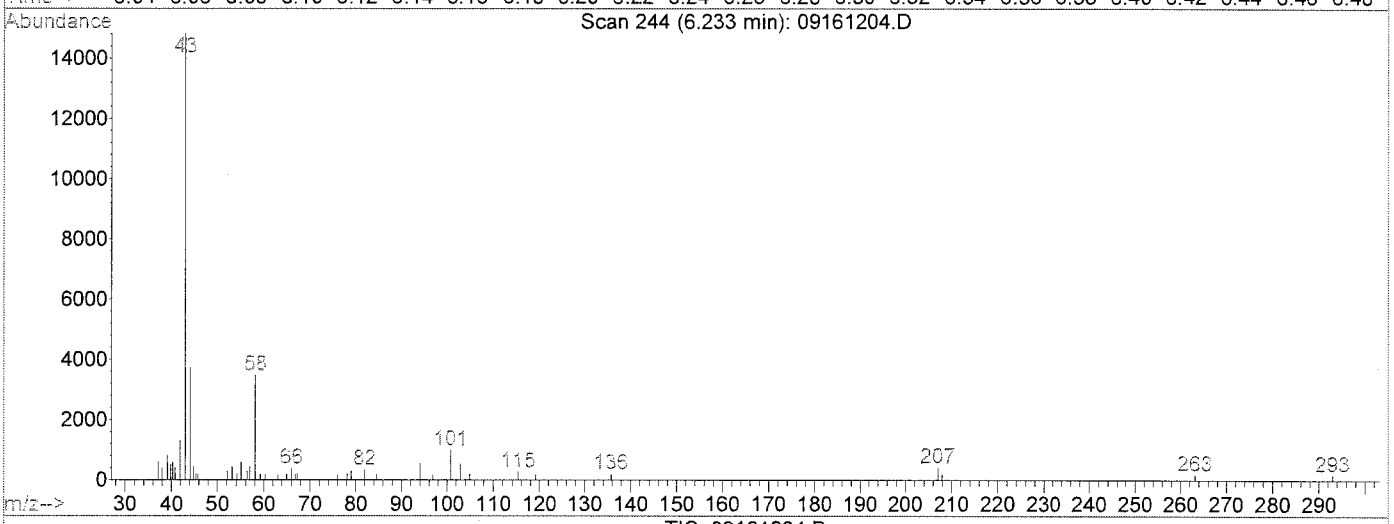
09161204.D 081012.M Mon Sep 17 08:50:48 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161204.D Vial: 4
Acq On : 16 Sep 2012 9:58 am Operator: EH
Sample : 12I0539-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161204.D

(12) Acetone (T)

6.23min 31.17ug/L m

response 33834

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.85
0.00	0.00	0.00
0.00	0.00	0.00

8/17/12

After Lab

09161204.D 081012.M Mon Sep 17 08:50:58 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161204.D Vial: 4
Acq On : 16 Sep 2012 9:58 am Operator: EH
Sample : 12I0539-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.70	65	58128	200.00 ug/L	-0.02
4) Pentafluorobenzene	9.82	168	257816	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.93	114	368677	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	265655	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.75	152	108915	25.00 ug/L	-0.02
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	116648	25.87 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 103.48%	
48) Toluene-d8	13.31	98	342469	23.52 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 94.08%	
62) 4-Bromofluorobenzene	16.93	95	102354	24.93 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 99.72%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	36219	1155.73 ug/L #	70
3) tert-Butanol (TBA)	6.81	59	45163	132.82 ug/L	100
5) Dichlorodifluoromethane	4.10	85	262311	27.73 ug/L	99
6) Chloromethane	4.33	50	223760	24.30 ug/L	93
7) Vinyl Chloride	4.62	62	208791	24.78 ug/L	100
8) 1,3-Butadiene	4.78	54	167029	36.65 ug/L	98
9) Bromomethane	5.17	94	132729	25.80 ug/L	100
10) Chloroethane	5.37	64	97571	23.35 ug/L	98
11) Trichlorofluoromethane	6.10	101	249814	33.54 ug/L	98
12) Acetone	6.23	43	33834m	31.17 ug/L	
13) Iodomethane	6.84	142	244658	28.11 ug/L	90
14) 1,1-Dichloroethene	6.78	96	131021	25.28 ug/L	99
15) Methylene Chloride	6.98	84	104402	22.62 ug/L	100
16) Freon 113	7.05	101	152263	28.36 ug/L	98
17) Carbon disulfide	7.29	76	424510	25.18 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	133324	22.18 ug/L	99
19) MTBE	7.98	73	193568	22.77 ug/L	99
20) 1,1-Dichloroethane	8.16	63	195938	20.99 ug/L	99
21) Vinyl Acetate	8.33	43	123977	18.74 ug/L	98
22) n-Hexane	8.67	86	30593	20.73 ug/L	85
23) 2-Butanone (MEK)	8.70	72	10970	29.54 ug/L #	95
24) Diisopropyl Ether (DIPE)	8.72	45	311681	19.78 ug/L #	86
25) cis-1,2-Dichloroethene	8.89	96	124605	22.77 ug/L	95
26) Bromochloromethane	9.10	128	46654	21.48 ug/L	95
27) Chloroform	9.15	83	179392	21.97 ug/L	98
28) 2,2-Dichloropropane	9.26	77	165569	26.78 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	239925	21.09 ug/L	99
31) Tetrahydrofuran	9.59	72	6237	18.47 ug/L	77
32) 1,2-Dichloroethane	10.00	62	98101	24.90 ug/L	93
33) 1,1,1-Trichloroethane	10.12	97	184444	26.97 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	193025	21.05 ug/L	97
36) 1,1-Dichloropropene	10.35	75	147473	18.70 ug/L	99
37) Carbon Tetrachloride	10.59	117	169182	27.37 ug/L	98
38) Benzene	10.64	78	385532	20.49 ug/L	97
39) Dibromomethane	11.38	93	46214	20.81 ug/L	98
40) 1,2-Dichloropropane	11.42	63	79874	17.82 ug/L #	88

(#) = qualifier out of range (m) = manual integration
09161204.D 081012.M Mon Sep 17 08:51:06 2012

9/17/12

LC 091712

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161204.D Vial: 4
Acq On : 16 Sep 2012 9:58 am Operator: EH
Sample : 12I0539-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

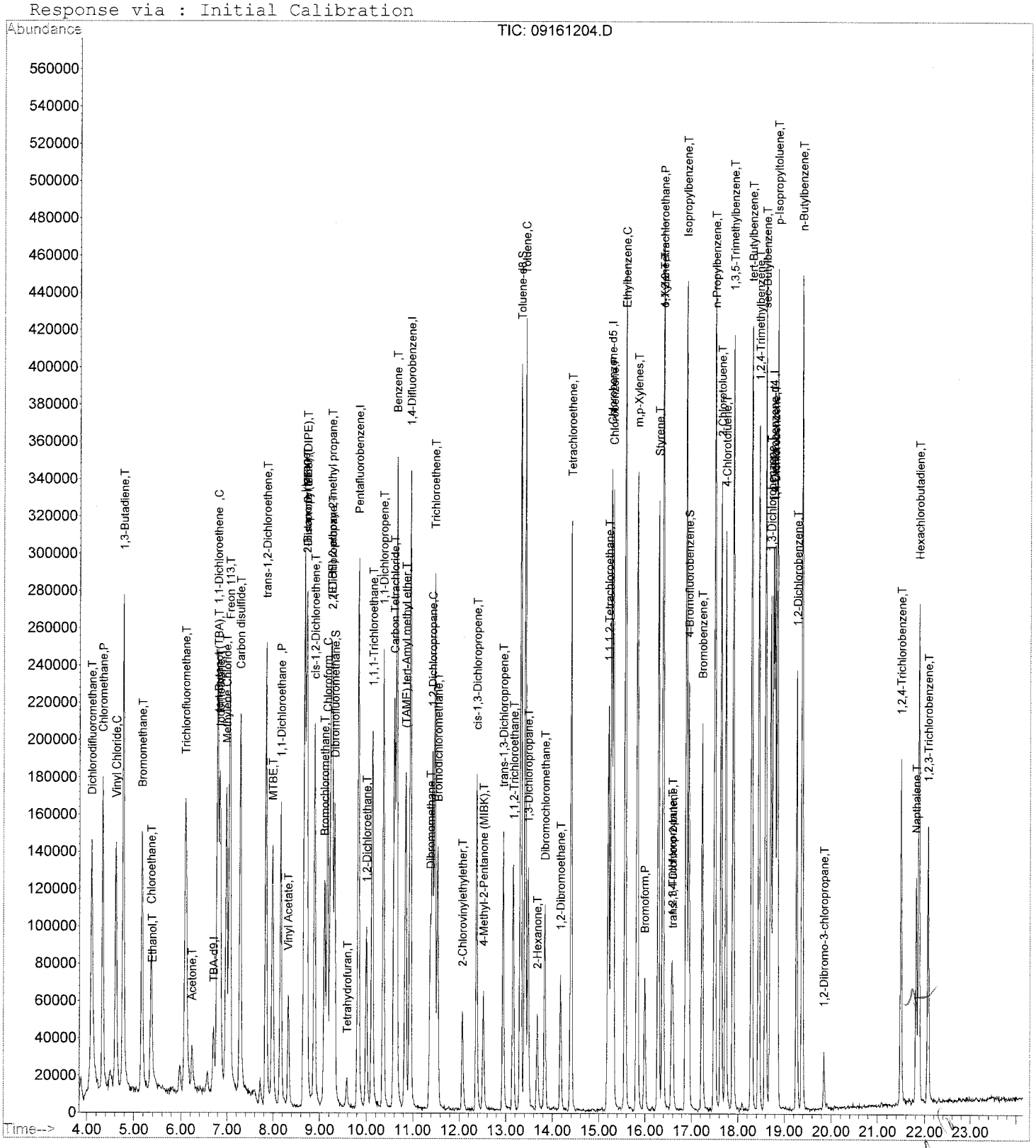
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.47	95	114602	21.73 ug/L	99
42) Bromodichloromethane	11.53	83	116500	22.58 ug/L	98
43) 2-Chlorovinylethylether	12.08	63	29586	17.46 ug/L	95
44) cis-1,3-Dichloropropene	12.37	75	125558	20.87 ug/L	93
45) 4-Methyl-2-Pentanone (MIBK	12.52	43	54113	20.04 ug/L	99
46) trans-1,3-Dichloropropene	12.94	75	93415	20.42 ug/L	92
47) 1,1,2-Trichloroethane	13.16	97	56257	21.57 ug/L	97
49) Toluene	13.40	92	231855	21.67 ug/L	99
51) 1,3-Dichloropropane	13.47	76	89254	18.92 ug/L	98
52) 2-Hexanone	13.67	43	49270	24.99 ug/L	99
53) Dibromochloromethane	13.84	129	81884	23.94 ug/L	98
54) 1,2-Dibromoethane	14.17	107	62499	21.80 ug/L	93
55) Tetrachloroethene	14.40	164	98332	21.01 ug/L	97
56) 1,1,1,2-Tetrachloroethane	15.20	131	82385	21.97 ug/L	96
57) Chlorobenzene	15.30	112	238741	21.89 ug/L	98
58) Ethylbenzene	15.57	91	416860	21.88 ug/L	100
59) m,p-Xylenes	15.83	106	164151	22.59 ug/L	93
60) Styrene	16.29	104	216427	22.24 ug/L	98
61) o-Xylene	16.38	106	150304	22.38 ug/L	100
64) Bromoform	15.99	173	44368	23.67 ug/L	99
65) 1,1,2,2-Tetrachloroethane	16.37	83	60406	20.65 ug/L	99
66) 1,2,3-Trichloropropane	16.58	110	16237	23.03 ug/L	96
67) trans-1,4-Dichloro-2-buten	16.60	53	14369	20.22 ug/L	93
68) Isopropylbenzene	16.89	105	418493	25.73 ug/L	100
69) Bromobenzene	17.23	156	87483	22.07 ug/L	99
70) n-Propylbenzene	17.50	91	476117	23.06 ug/L	98
71) 2-Chlorotoluene	17.63	91	263192	23.57 ug/L	99
72) 4-Chlorotoluene	17.73	91	252886	23.16 ug/L	97
73) 1,3,5-Trimethylbenzene	17.90	105	306752	24.18 ug/L	98
74) tert-Butylbenzene	18.29	119	291327	25.71 ug/L	99
75) 1,2,4-Trimethylbenzene	18.45	105	287908	23.99 ug/L	99
76) sec-Butylbenzene	18.60	105	443230	24.17 ug/L	99
77) 1,3-Dichlorobenzene	18.71	146	157622	21.85 ug/L	96
78) 1,4-Dichlorobenzene	18.79	146	151427	21.41 ug/L	97
79) p-Isopropyltoluene	18.84	119	335529	24.42 ug/L	98
80) 1,2-Dichlorobenzene	19.27	146	126476	21.53 ug/L	97
81) n-Butylbenzene	19.37	91	307046	23.31 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.85	75	8583	29.20 ug/L	81
83) 1,2,4-Trichlorobenzene	21.49	180	76008	24.14 ug/L	97
84) Napthalene	21.81	128	122988	24.41 ug/L	96
85) Hexachlorobutadiene	21.87	225	72034	33.88 ug/L	98
86) 1,2,3-Trichlorobenzene	22.07	180	64064	25.09 ug/L	100

(#) = qualifier out of range (m) = manual integration
09161204.D 081012.M Mon Sep 17 08:51:06 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161204.D Vial: 4
Acq On : 16 Sep 2012 9:58 am Operator: EH
Sample : 12I0539-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:50 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161205.D Vial: 5
Acq On : 16 Sep 2012 10:31 am Operator: EH
Sample : 12I0539-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:51 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	64821	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.82	168	257661	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	355537	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	259471	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	95004	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	120773	26.80 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.20%	
48) Toluene-d8	13.31	98	338282	24.09 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.36%	
62) 4-Bromofluorobenzene	16.94	95	95647	23.85 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 95.40%	

Target Compounds						Qvalue
2) Ethanol	5.38	45	26250	751.14 ug/L	# ea/NT	49
3) tert-Butanol (TBA)	6.83	59	114	0.30 ug/L	#	1
6) Chloromethane	4.33	50	1187	0.13 ug/L		75
7) Vinyl Chloride	4.62	62	902	0.11 ug/L		90
8) 1,3-Butadiene	4.78	54	626	0.14 ug/L	#	1
9) Bromomethane	5.20	94	1019	0.20 ug/L	#	2
12) Acetone	6.27	43	1894	1.75 ug/L	#	63
17) Carbon disulfide	7.29	76	1757	0.10 ug/L	#	1
28) 2,2-Dichloropropane	9.27	77	570	0.09 ug/L	#	42
31) Tetrahydrofuran	9.59	72	205	0.61 ug/L	#	57
45) 4-Methyl-2-Pentanone (MIBK	12.45	43	336	0.13 ug/L	#	37
47) 1,1,2-Trichloroethane	13.33	97	3344	1.33 ug/L	# WRF	1
66) 1,2,3-Trichloropropane	16.63	110	95	0.15 ug/L	# ea/NT	22
81) n-Butylbenzene	19.40	91	1045	0.09 ug/L	#	55
82) 1,2-Dibromo-3-chloropropan	19.81	75	102	0.57 ug/L	#	1
83) 1,2,4-Trichlorobenzene	21.50	180	585	0.21 ug/L	#	27
84) Napthalene	21.83	128	1102	0.25 ug/L	#	90
85) Hexachlorobutadiene	21.92	225	107	Below Cal	#	38
86) 1,2,3-Trichlorobenzene	22.07	180	123	Below Cal	#	1

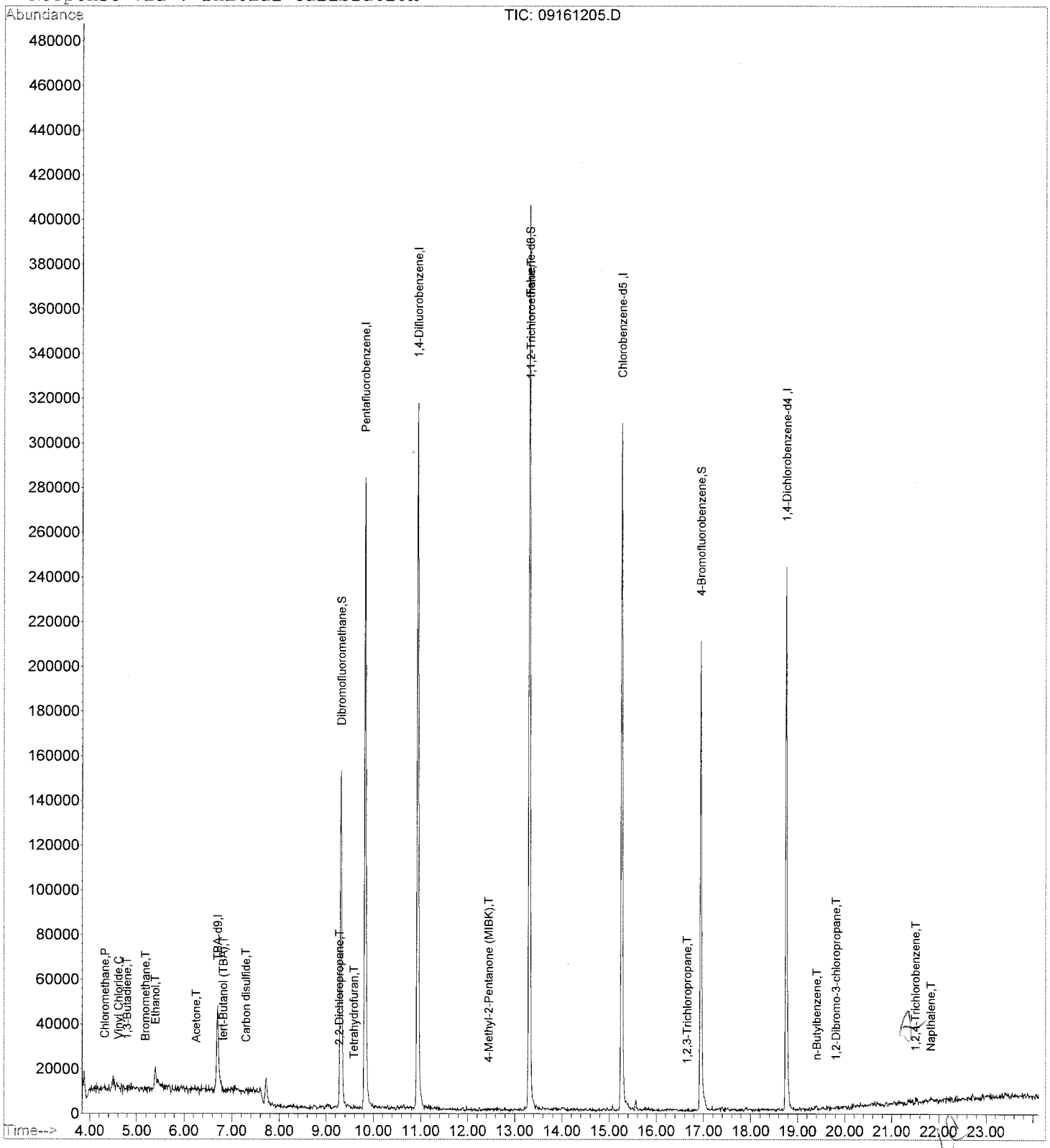
LC 091712

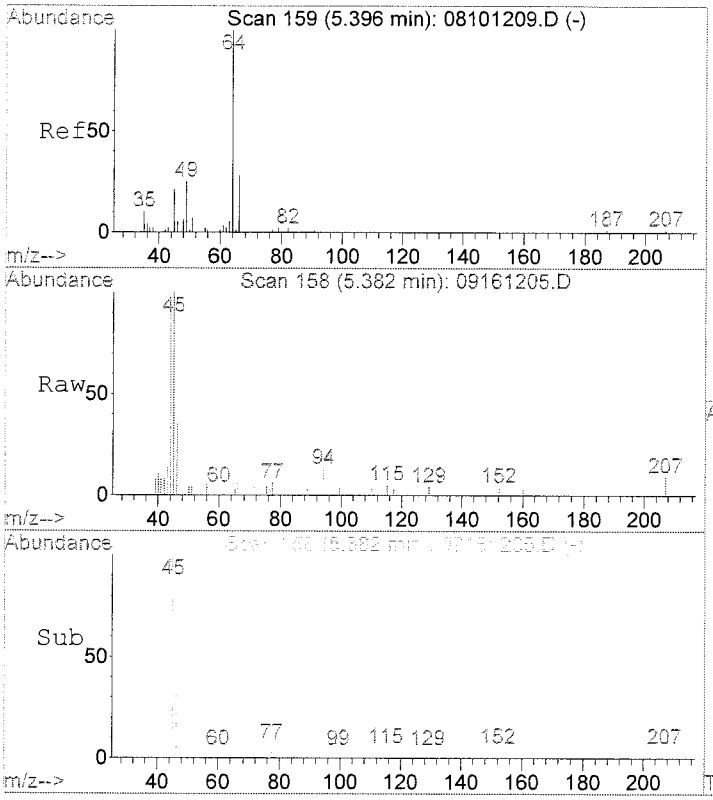
(#) = qualifier out of range (m) = manual integration
09161205.D 081012.M Mon Sep 17 08:51:29 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161205.D Vial: 5
Acq On : 16 Sep 2012 10:31 am Operator: EH
Sample : l2I0539-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:51 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

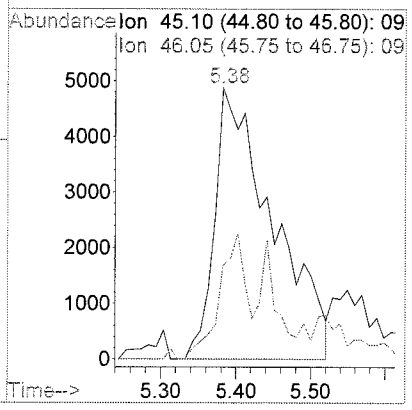


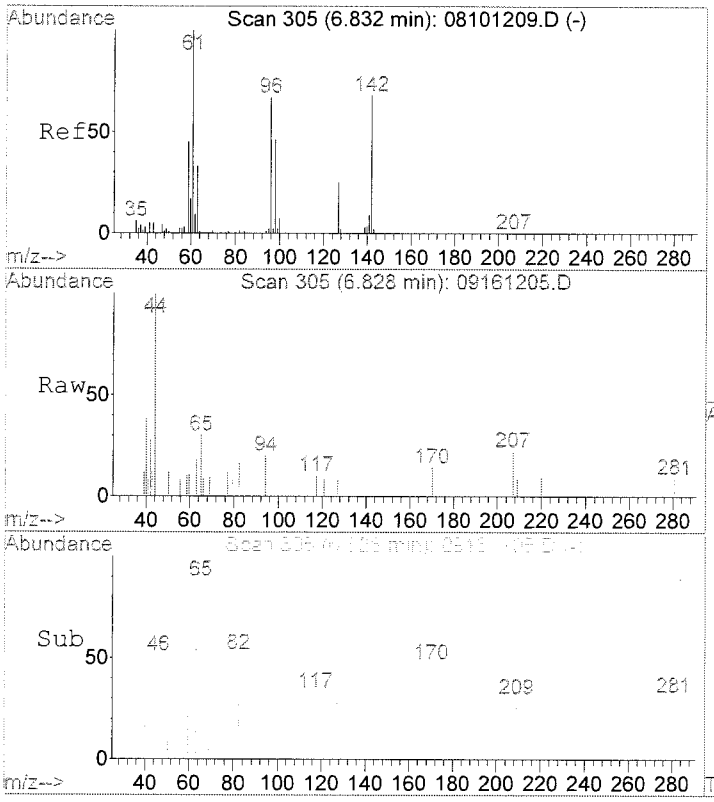


#2
Ethanol
Concen: 751.14 ug/L
RT: 5.38 min Scan# 158
Delta R.T. -0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 45 Resp: 26250

Ion	Ratio	Lower	Upper
45	100		
46	21.1	39.9	79.9#

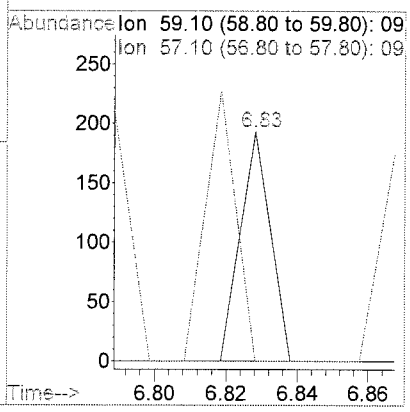


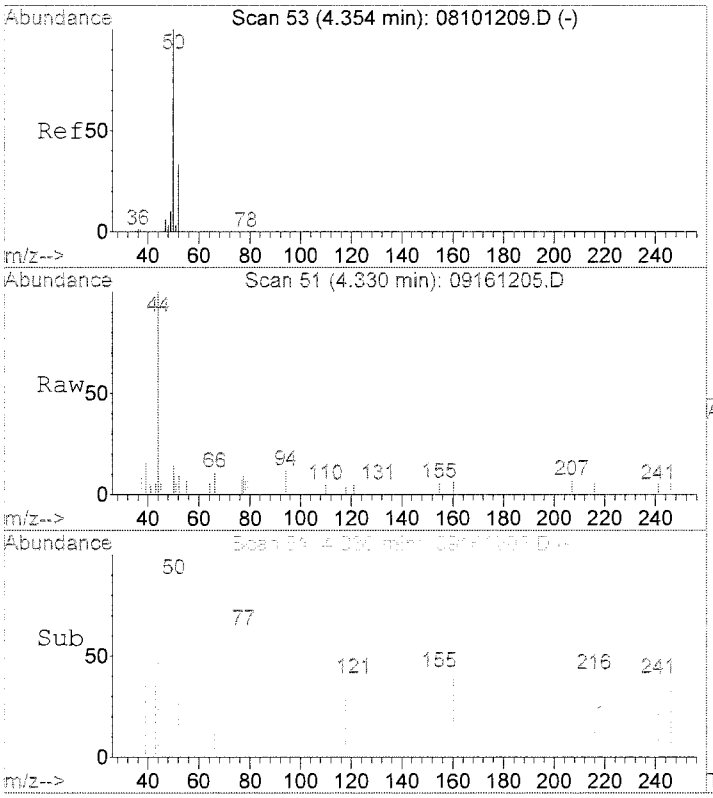


#3
tert-Butanol (TBA)
Concen: 0.30 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 59 Resp: 114

Ion	Ratio	Lower	Upper
59	100		
57	118.4	6.4	9.6#

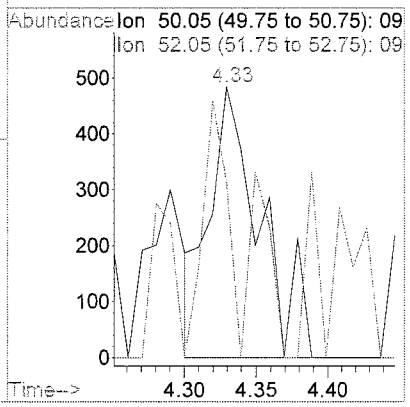


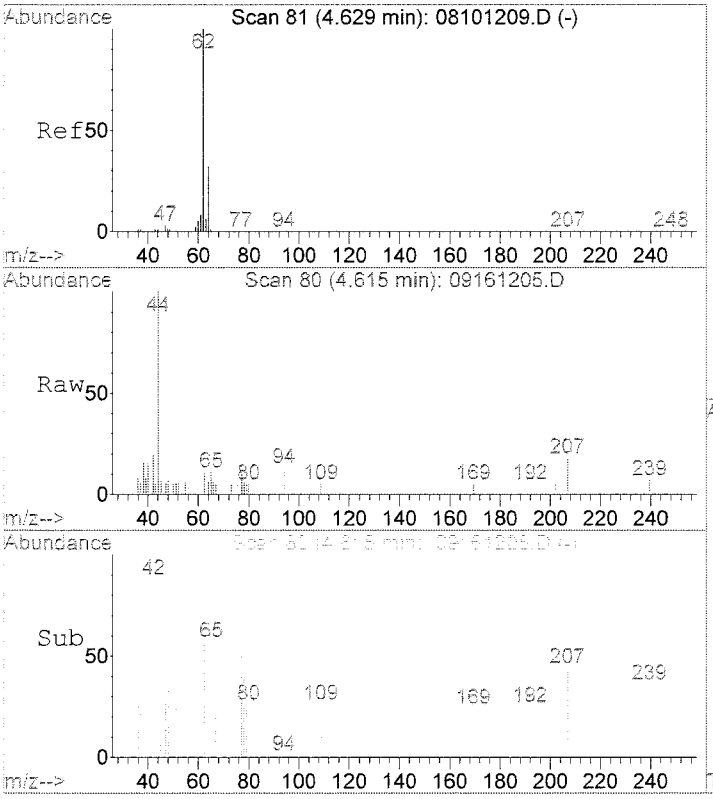


#6
Chloromethane
Concen: 0.13 ug/L
RT: 4.33 min Scan# 51
Delta R.T. -0.02 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 50 Resp: 1187

Ion	Ratio	Lower	Upper
50	100		
52	46.4	12.3	52.3

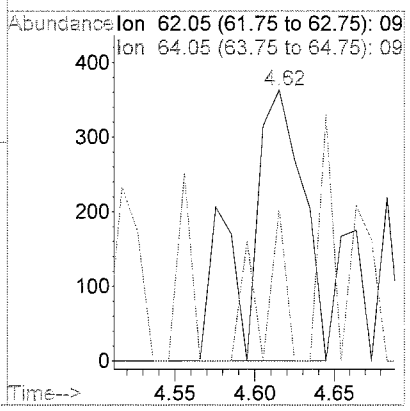


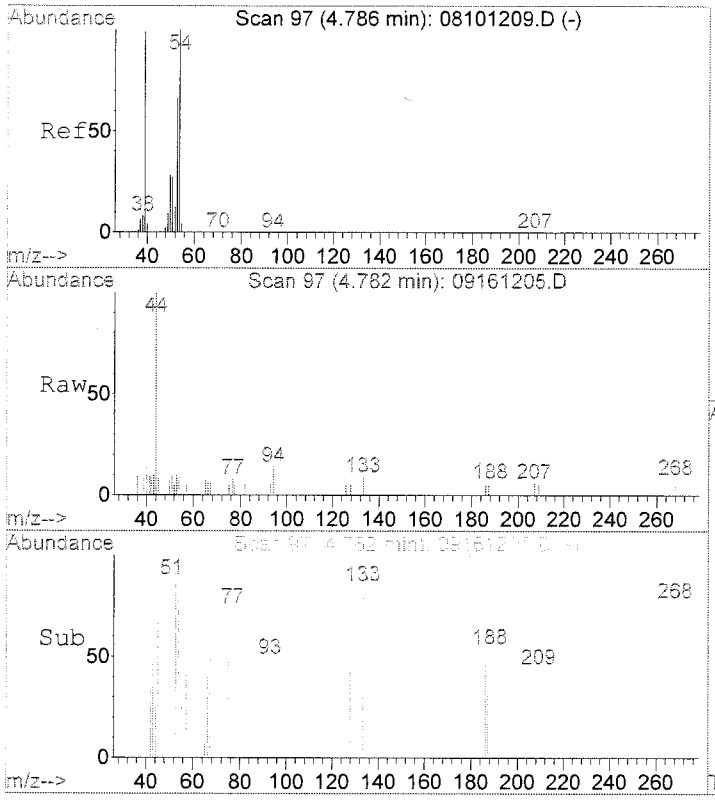


#7
Vinyl Chloride
Concen: 0.11 ug/L
RT: 4.62 min Scan# 80
Delta R.T. -0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 62 Resp: 902

Ion	Ratio	Lower	Upper
62	100		
64	26.6	25.7	38.5

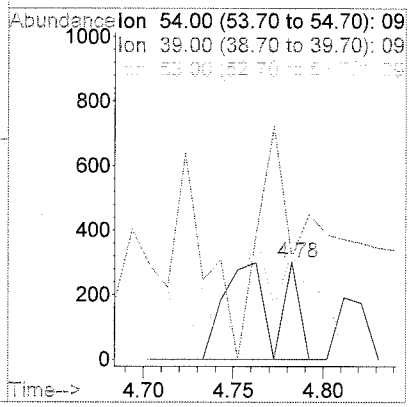


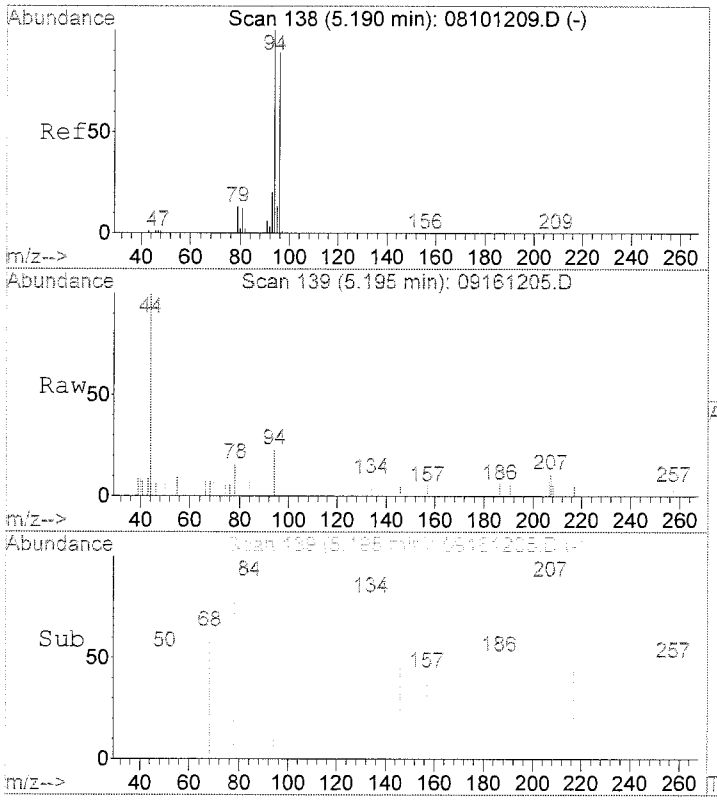


#8
1,3-Butadiene
Concen: 0.14 ug/L
RT: 4.78 min Scan# 97
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 54 Resp: 626

Ion	Ratio	Lower	Upper
54	100		
39	314.5	86.0	129.0#
53	162.5	56.2	84.4#

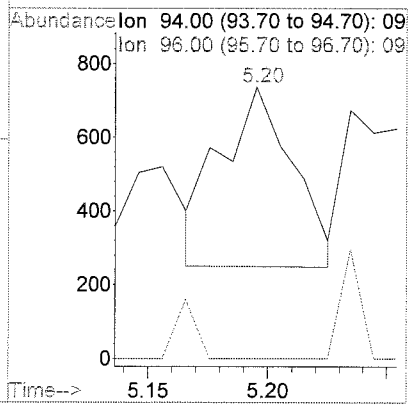


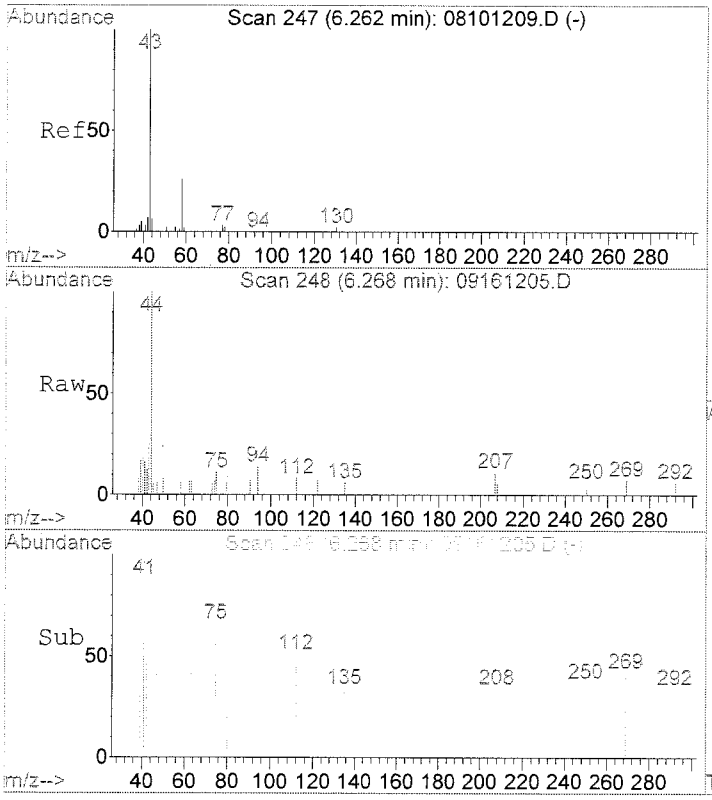


#9
Bromomethane
Concen: 0.20 ug/L
RT: 5.20 min Scan# 139
Delta R.T. 0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 94 Resp: 1019

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

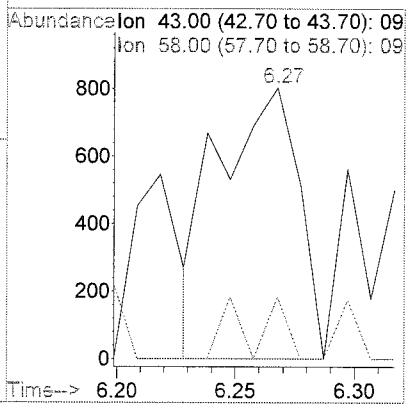


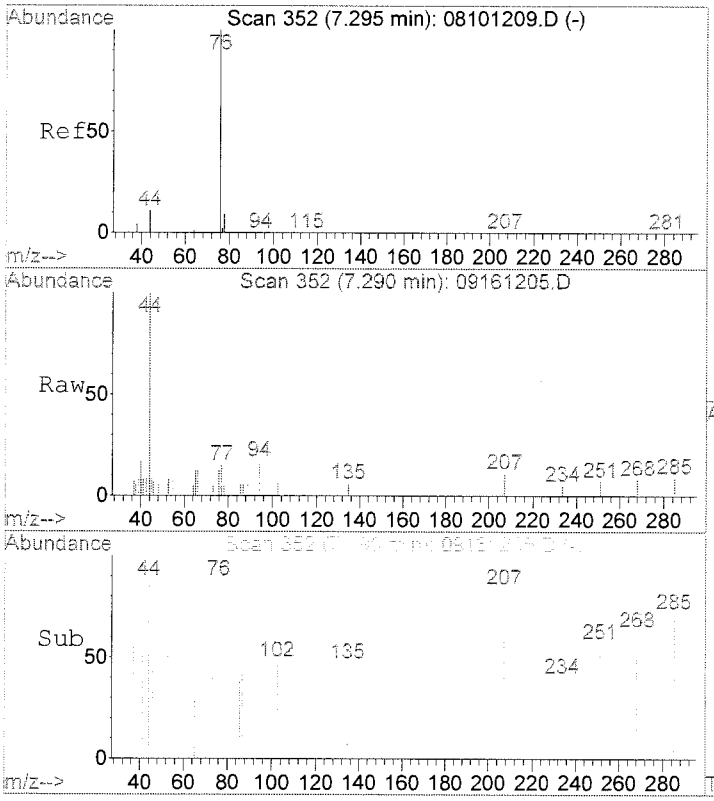


#12
Acetone
Concen: 1.75 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 43 Resp: 1894

Ion	Ratio	Lower	Upper
43	100		
58	11.5	25.9	38.9#

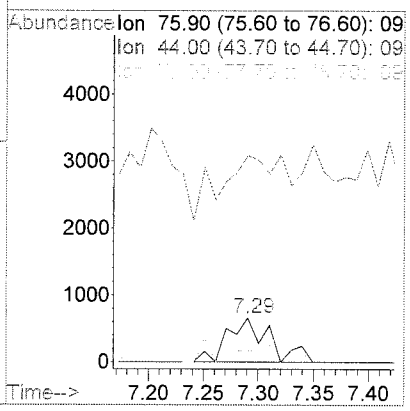


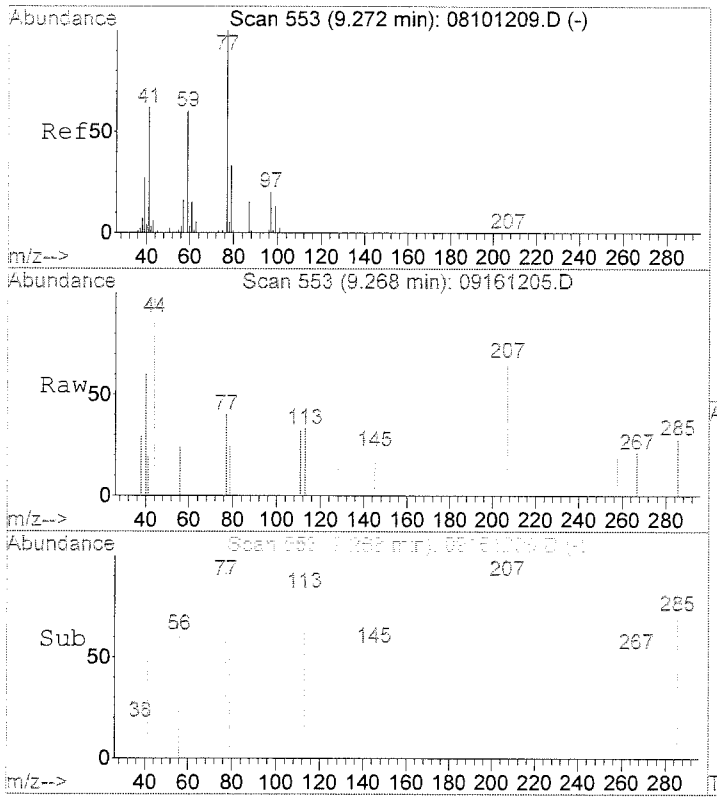


#17
Carbon disulfide
Concen: 0.10 ug/L
RT: 7.29 min Scan# 352
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 76 Resp: 1757

Ion	Ratio	Lower	Upper
76	100		
44	218.0	10.2	15.2#
78	35.1	7.6	11.4#

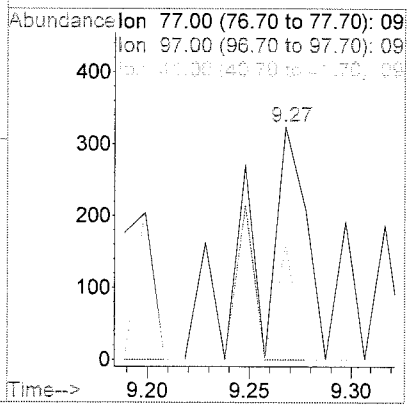


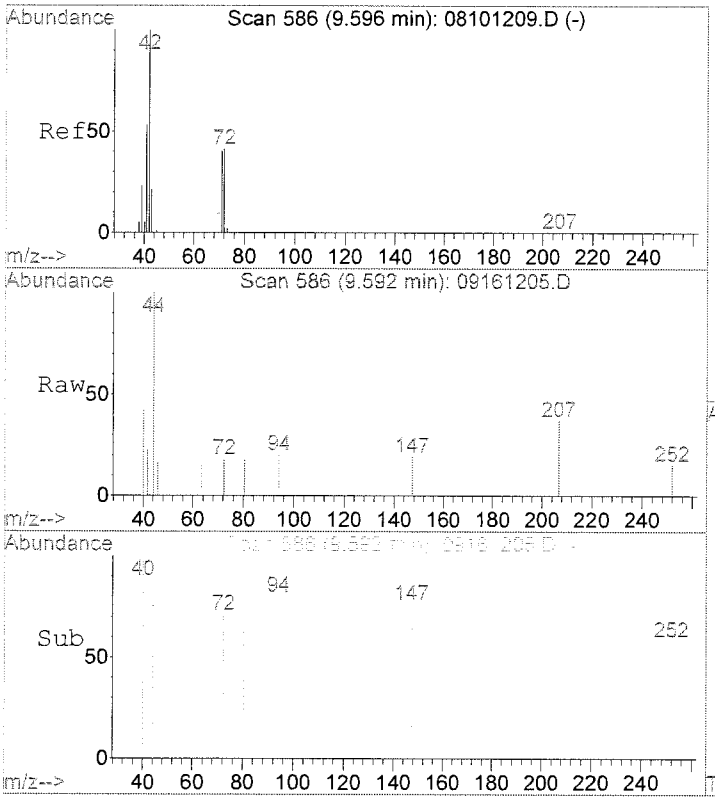


#28
2,2-Dichloropropane
Concen: 0.09 ug/L
RT: 9.27 min Scan# 553
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 77 Resp: 570

Ion	Ratio	Lower	Upper
77	100		
97	22.3	16.9	25.3
41	16.5	64.1	96.1#

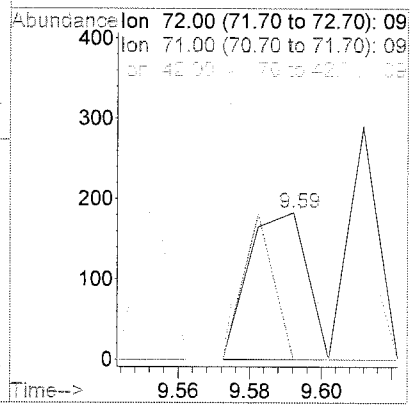


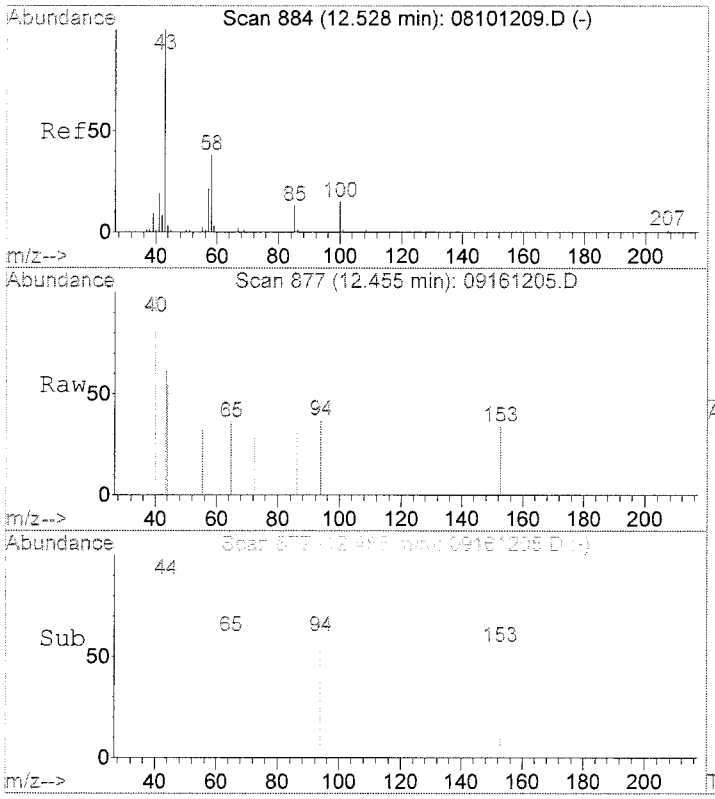


#31
Tetrahydrofuran
Concen: 0.61 ug/L
RT: 9.59 min Scan# 586
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 72 Resp: 205

Ion	Ratio	Lower	Upper
72	100		
71	52.2	79.1	118.7#
42	195.6	217.1	325.7#

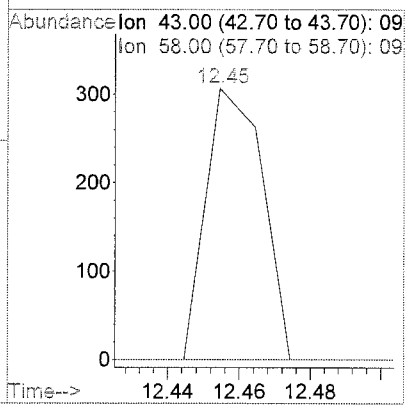


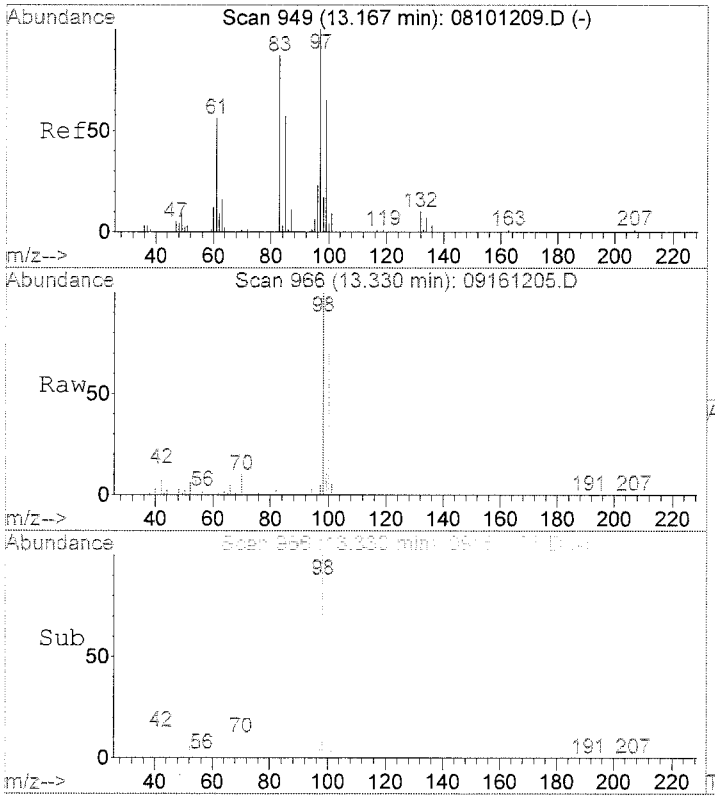


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.45 min Scan# 877
Delta R.T. -0.07 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 43 Resp: 336

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

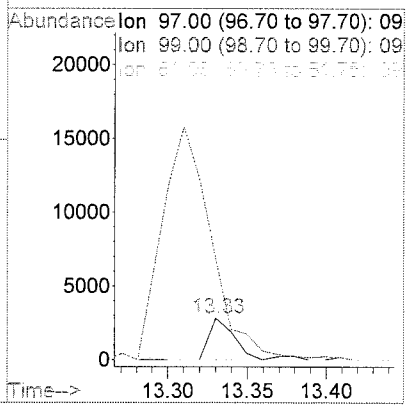


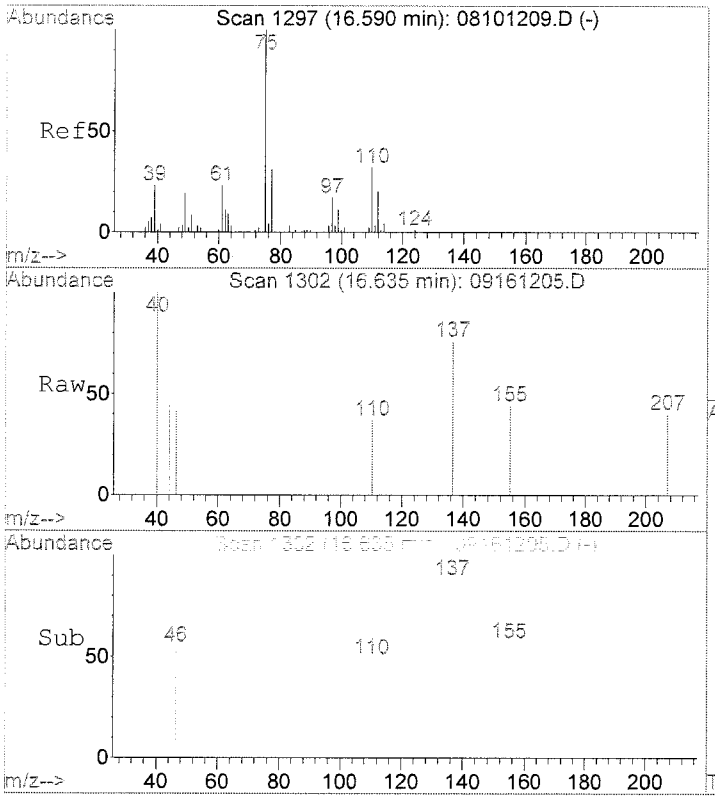


#47
1,1,2-Trichloroethane
Concen: 1.33 ug/L
RT: 13.33 min Scan# 966
Delta R.T. 0.16 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 97 Resp: 3344

Ion	Ratio	Lower	Upper
97	100		
99	1032.6	51.8	77.6#
61	3.3	45.0	67.4#

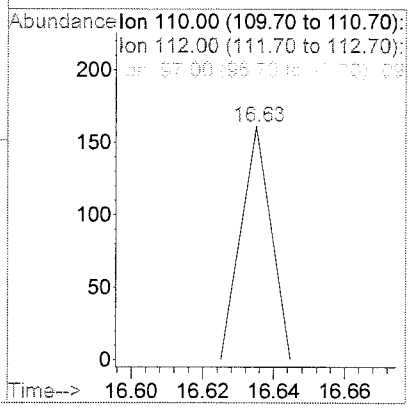


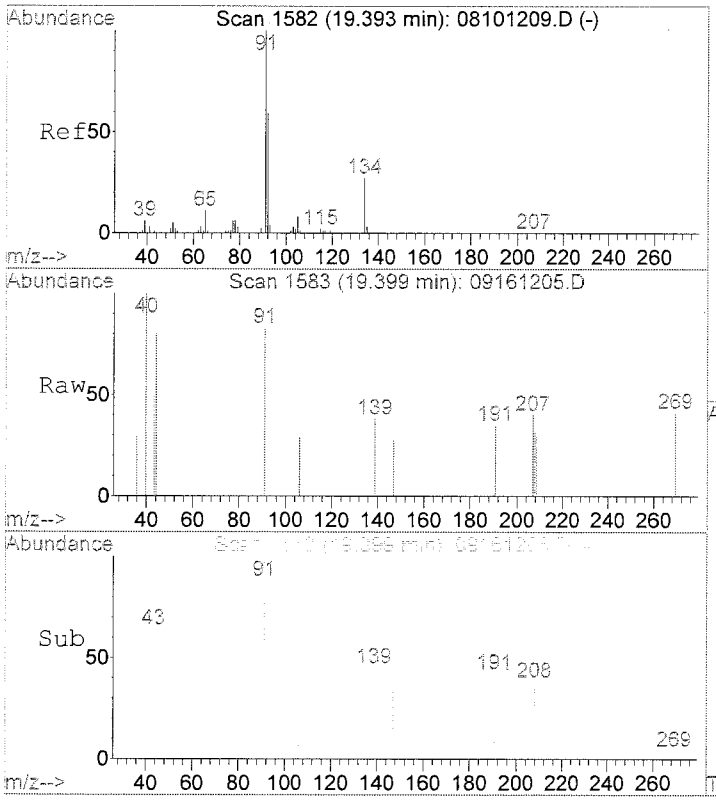


#66
1,2,3-Trichloropropane
Concen: 0.15 ug/L
RT: 16.63 min Scan# 1302
Delta R.T. 0.04 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion:110 Resp: 95

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

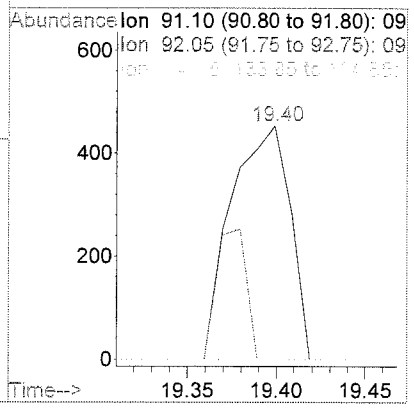


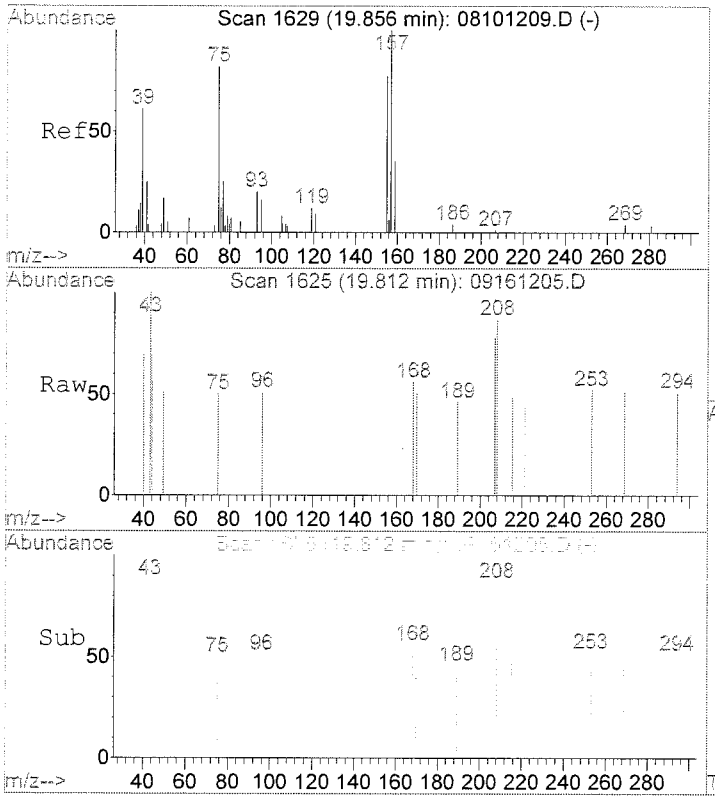


#81
n-Butylbenzene
Concen: 0.09 ug/L
RT: 19.40 min Scan# 1583
Delta R.T. 0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 91 Resp: 1045

Ion	Ratio	Lower	Upper
91	100		
92	27.9	47.8	71.6#
134	0.0	20.8	31.2#

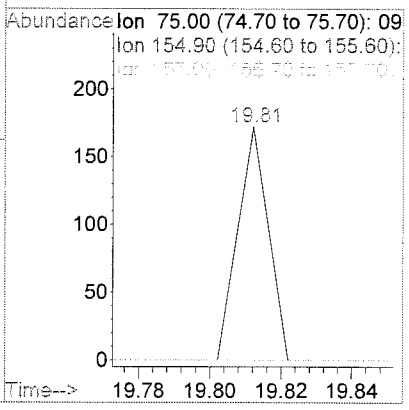


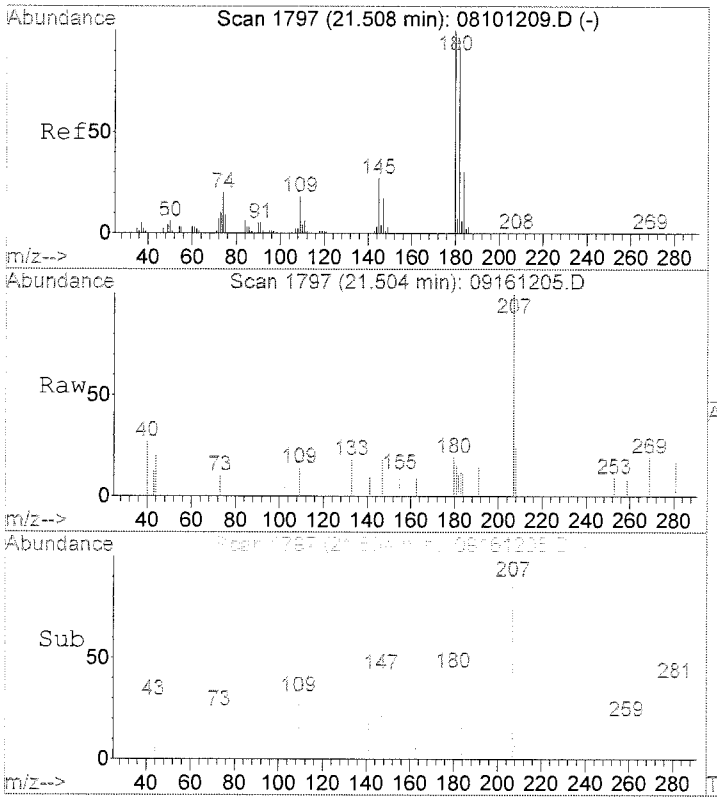


#82
1,2-Dibromo-3-chloropropane
Concen: 0.57 ug/L
RT: 19.81 min Scan# 1625
Delta R.T. -0.04 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion: 75 Resp: 102

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

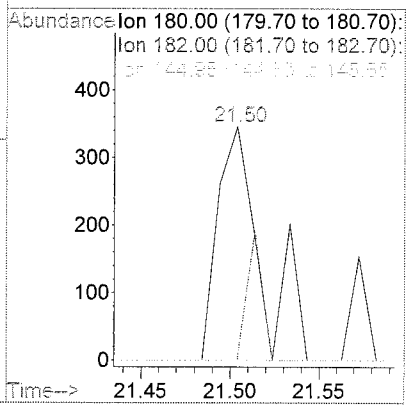


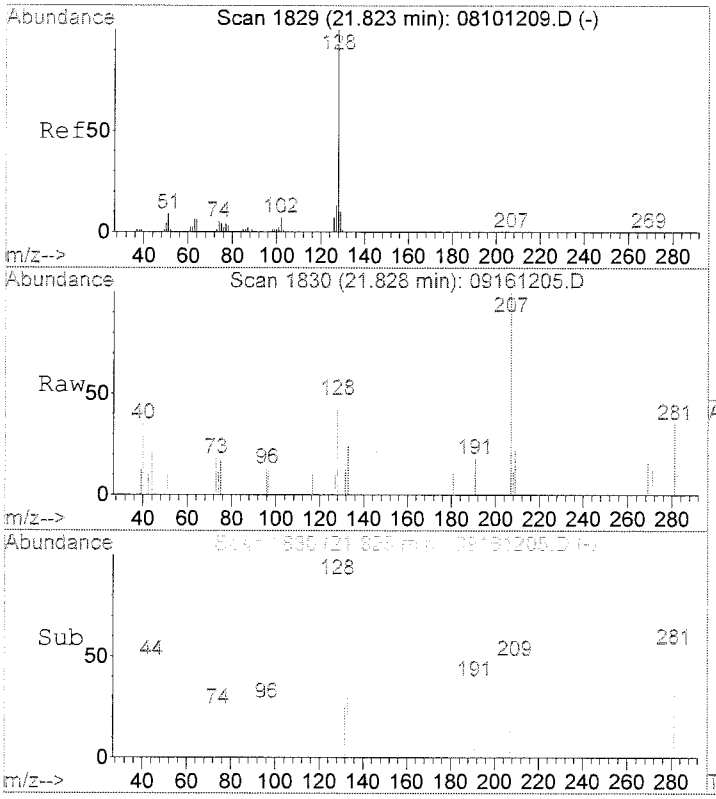


#83
1,2,4-Trichlorobenzene
Concen: 0.21 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion:180 Resp: 585

Ion	Ratio	Lower	Upper
180	100		
182	19.5	77.9	116.9#
145	0.0	22.8	34.2#

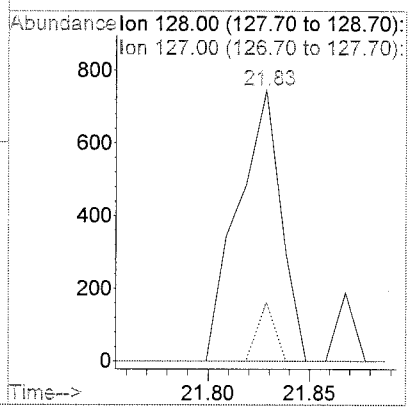


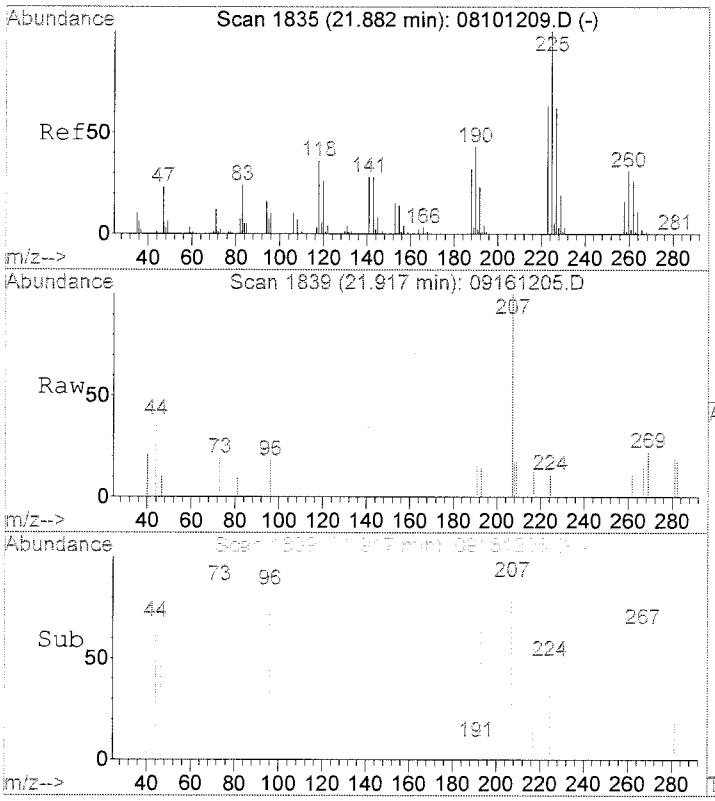


#84
Napthalene
Concen: 0.25 ug/L
RT: 21.83 min Scan# 1830
Delta R.T. 0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion:128 Resp: 1102

Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.2	15.4#

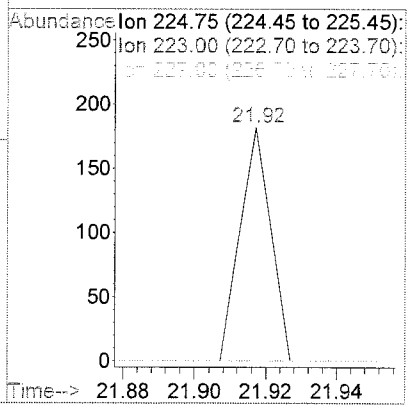


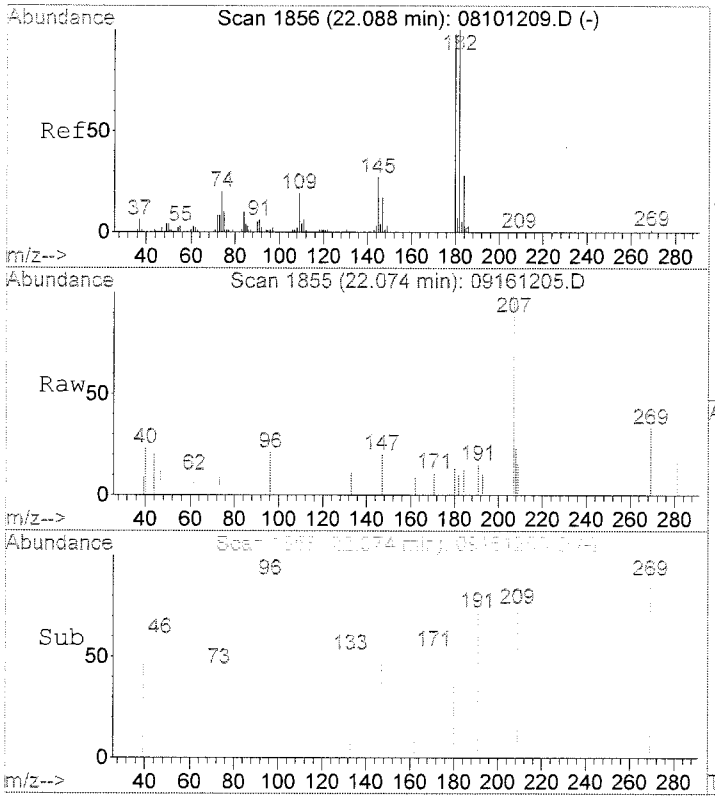


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.92 min Scan# 1839
Delta R.T. 0.04 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion:225 Resp: 107

Ion	Ratio	Lower	Upper
225	100		
223	91.6	47.8	71.8#
227	0.0	50.6	75.8#

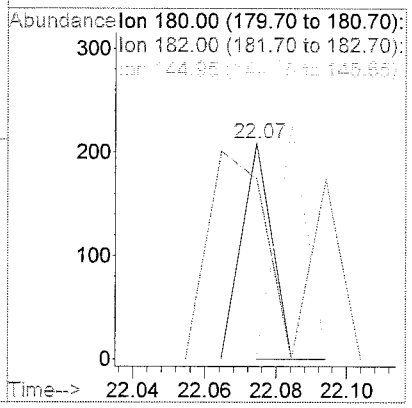




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.07 min Scan# 1855
Delta R.T. -0.01 min
Lab File: 09161205.D
Acq: 16 Sep 2012 10:31 am

Tgt Ion:180 Resp: 123

Ion	Ratio	Lower	Upper
180	100		
182	263.4	78.9	118.3#
145	108.1	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161207.D Vial: 7
Acq On : 16 Sep 2012 11:36 am Operator: EH
Sample : PVI0717-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:52 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	67198	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	277563	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	390231	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	274447	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	100009	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	129838	26.75 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 107.00%	
48) Toluene-d8	13.31	98	367985	23.88 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 95.52%	
62) 4-Bromofluorobenzene	16.94	95	102316	24.13 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.52%	

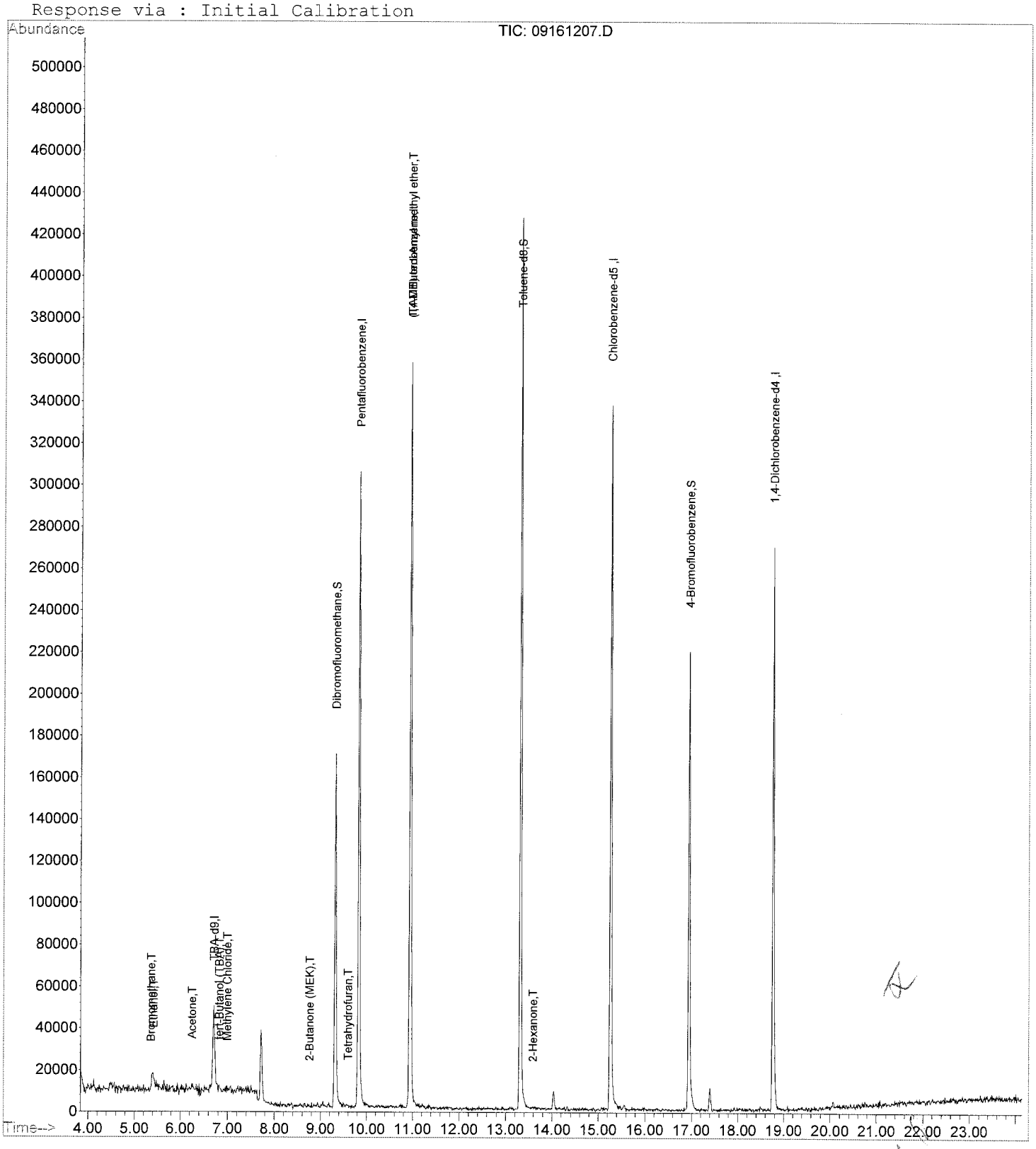
Target Compounds					Qvalue
2) Ethanol	5.40	45	22566	622.88 ug/L #	66
3) tert-Butanol (TBA)	6.82	59	301	0.77 ug/L #	1
9) Bromomethane	5.35	94	1322	0.24 ug/L #	27
12) Acetone	6.24	43	5588	4.78 ug/L #	73
15) Methylene Chloride	6.99	84	526	0.11 ug/L #	22
23) 2-Butanone (MEK)	8.77	72	115	0.29 ug/L #	1
31) Tetrahydrofuran	9.60	72	101	0.28 ug/L #	3
34) (TAME) tert-Amyl methyl et	10.94	73	3767	0.38 ug/L #	58
52) 2-Hexanone	13.58	43	259	0.13 ug/L #	34
86) 1,2,3-Trichlorobenzene	22.06	180	97	Below Cal #	69

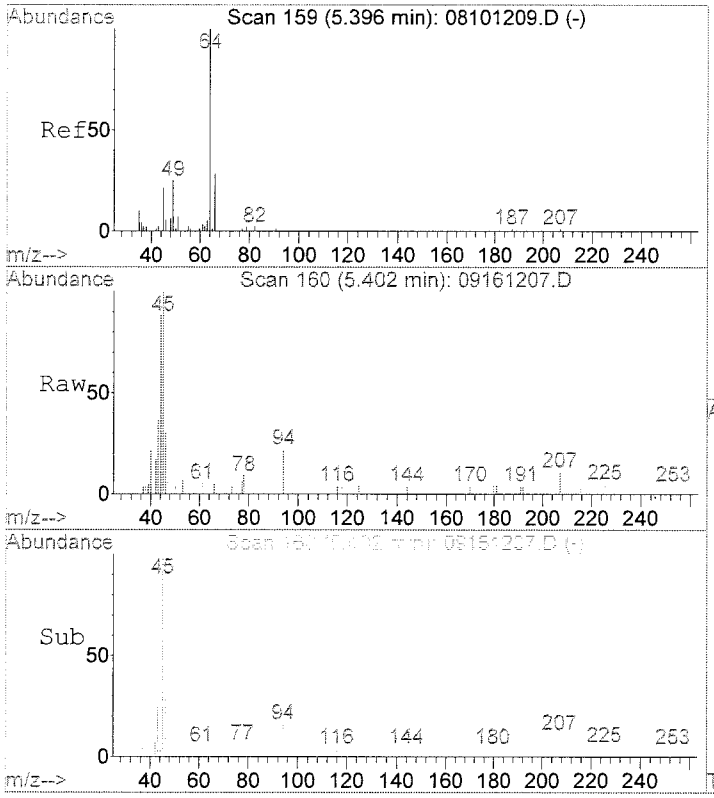
(#) = qualifier out of range (m) = manual integration
09161207.D 081012.M Mon Sep 17 08:52:21 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161207.D Vial: 7
Acq On : 16 Sep 2012 11:36 am Operator: EH
Sample : PVI0717-01@TB Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:52 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

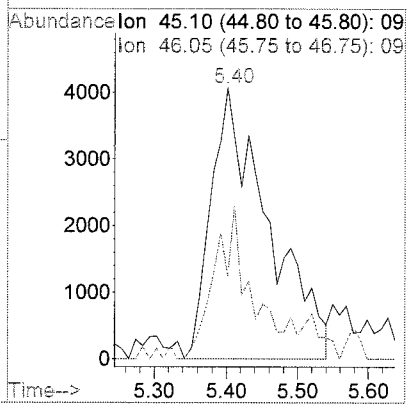


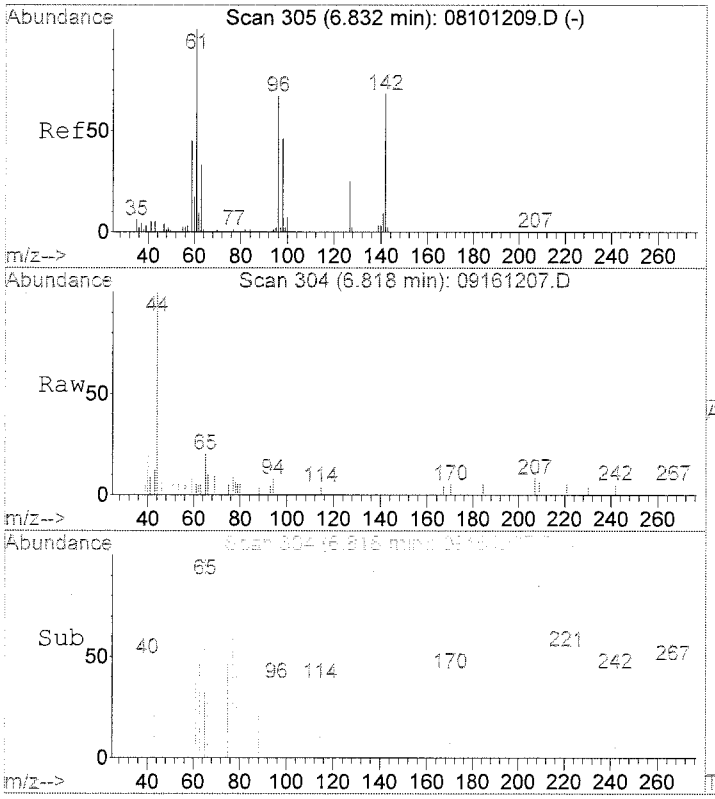


#2
Ethanol
Concen: 622.88 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 45 Resp: 22566

Ion	Ratio	Lower	Upper
45	100		
46	34.5	39.9	79.9#

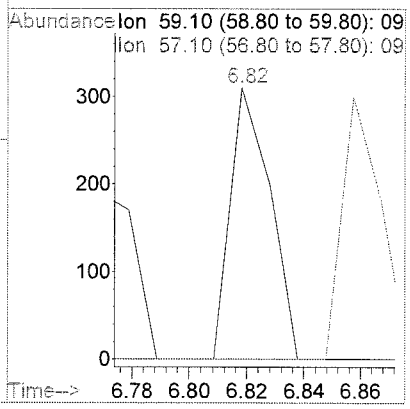


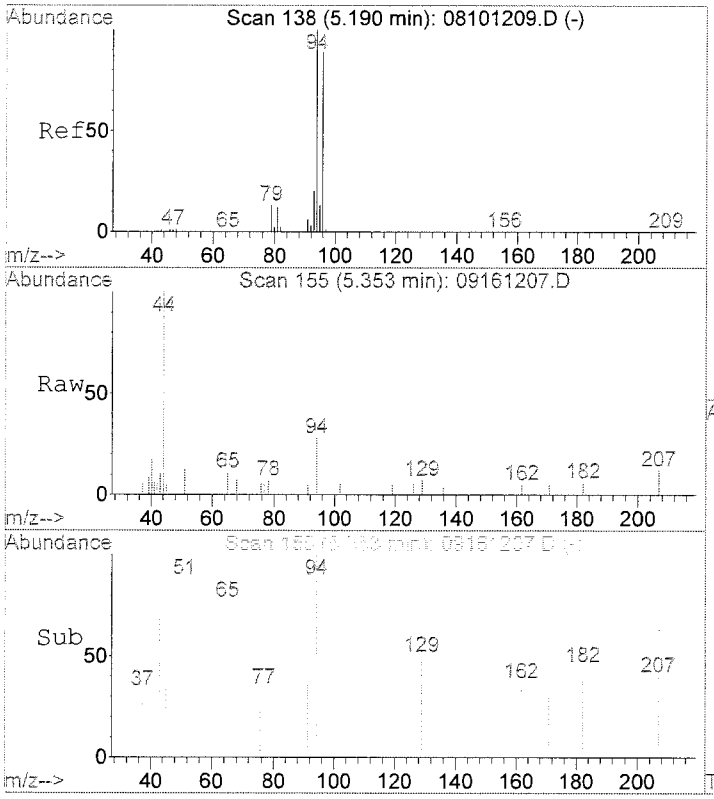


#3
tert-Butanol (TBA)
Concen: 0.77 ug/L
RT: 6.82 min Scan# 304
Delta R.T. -0.01 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 59 Resp: 301

Ion	Ratio	Lower	Upper
59	100		
57	94.0	6.4	9.6#

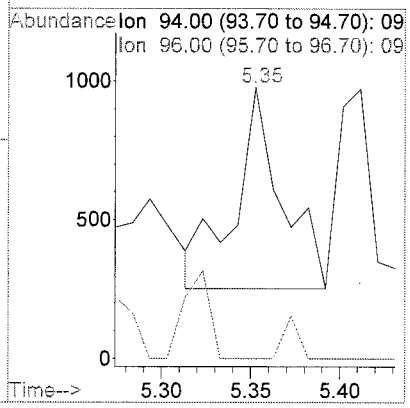


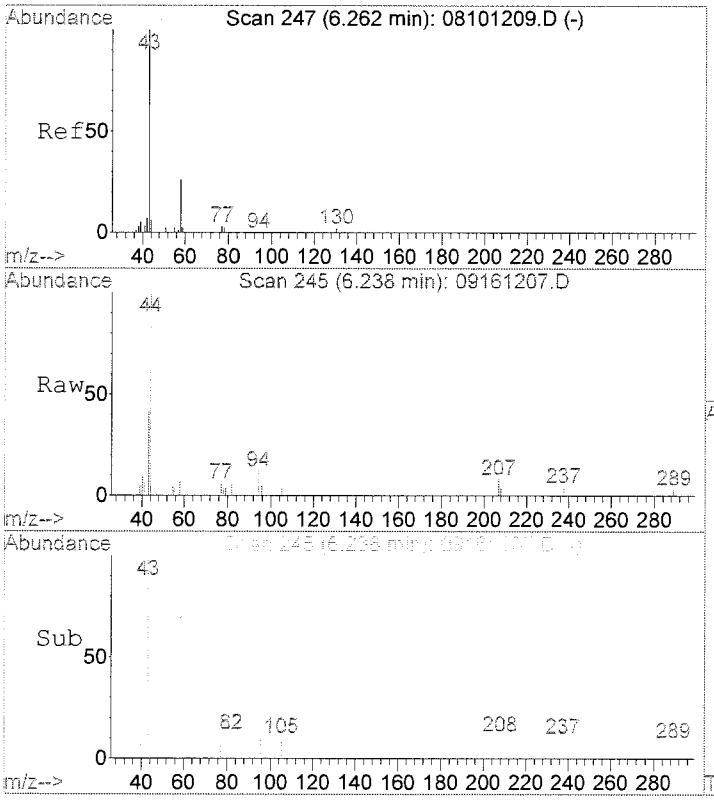


#9
Bromomethane
Concen: 0.24 ug/L
RT: 5.35 min Scan# 155
Delta R.T. 0.16 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 94 Resp: 1322

Ion	Ratio	Lower	Upper
94	100		
96	23.9	75.8	113.6#

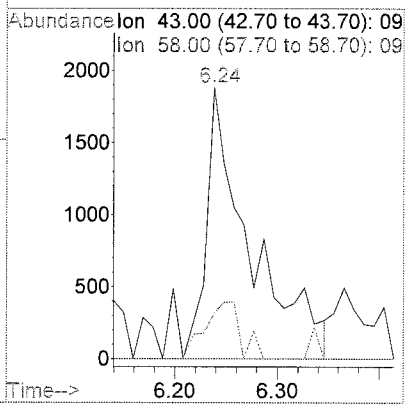


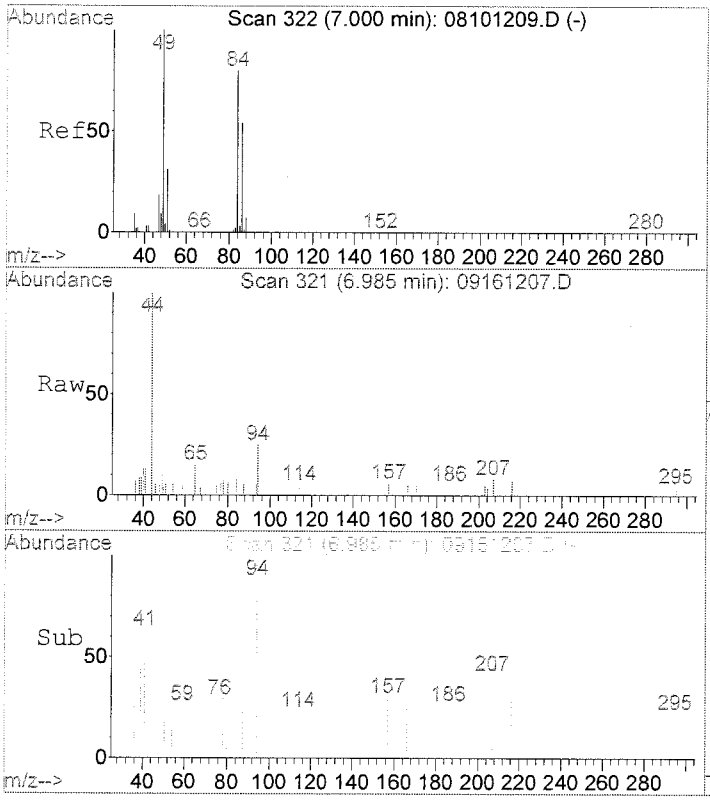


#12
Acetone
Concen: 4.78 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 43 Resp: 5588

Ion	Ratio	Lower	Upper
43	100		
58	17.3	25.9	38.9#

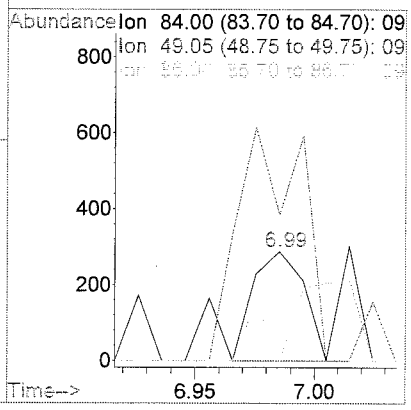


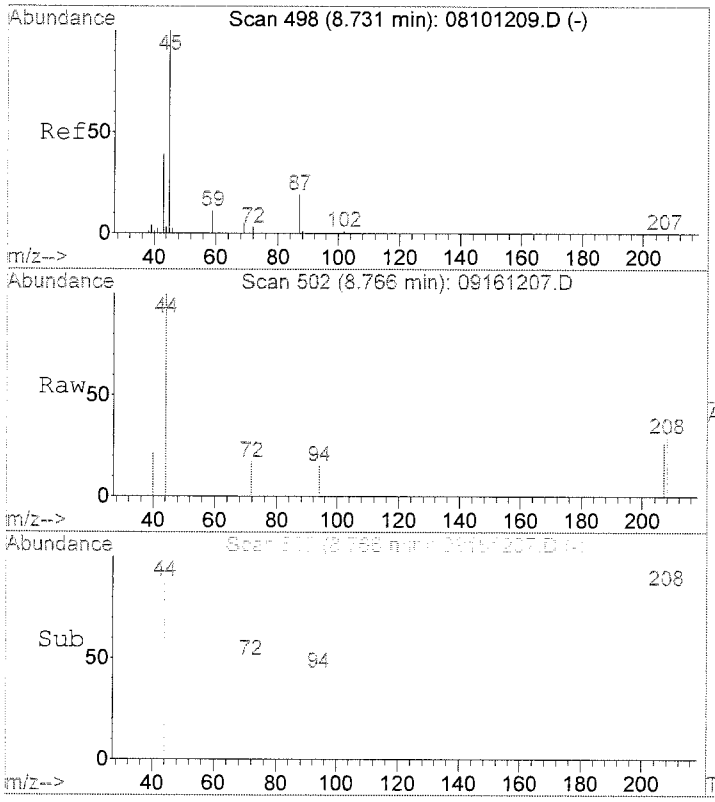


#15
Methylene Chloride
Concen: 0.11 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 84 Resp: 526

Ion	Ratio	Lower	Upper
84	100		
49	216.5	103.4	155.0#
86	0.0	52.0	78.0#

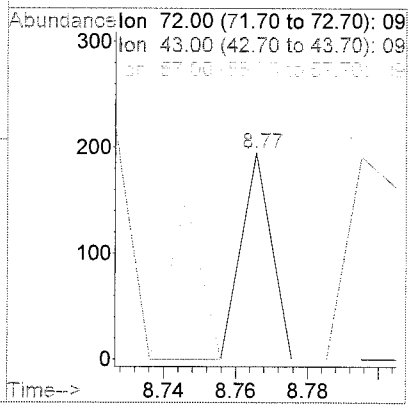


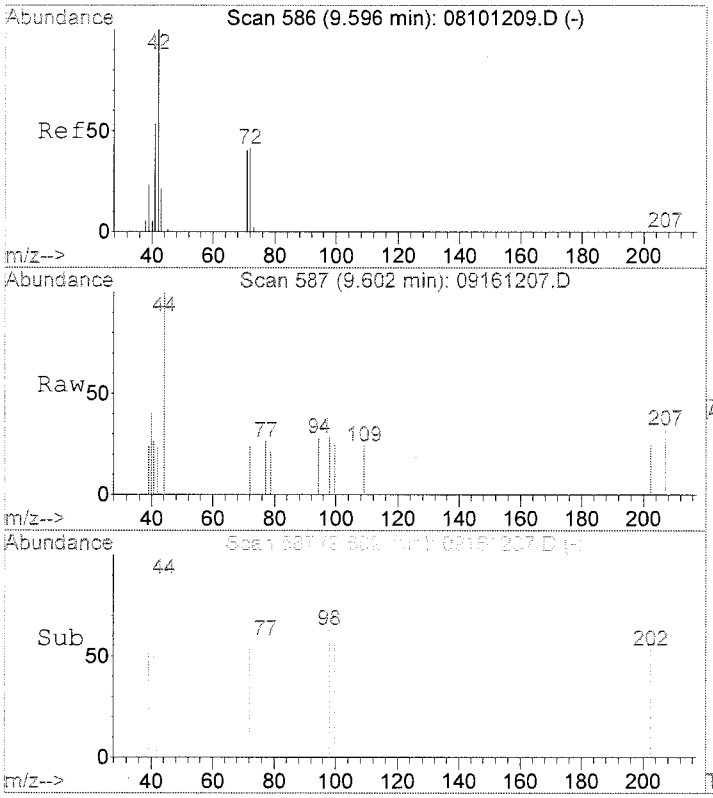


#23
2-Butanone (MEK)
Concen: 0.29 ug/L
RT: 8.77 min Scan# 502
Delta R.T. 0.03 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 72 Resp: 115

Ion	Ratio	Lower	Upper
72	100		
43	273.0	1366.5	2049.7#
57	0.0	0.0	0.0

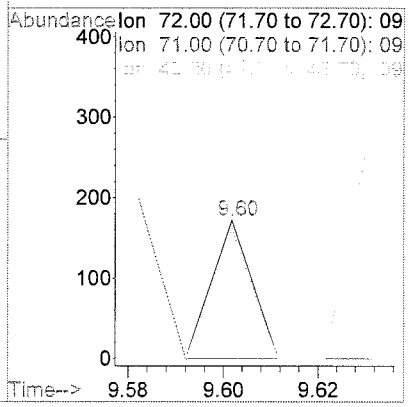


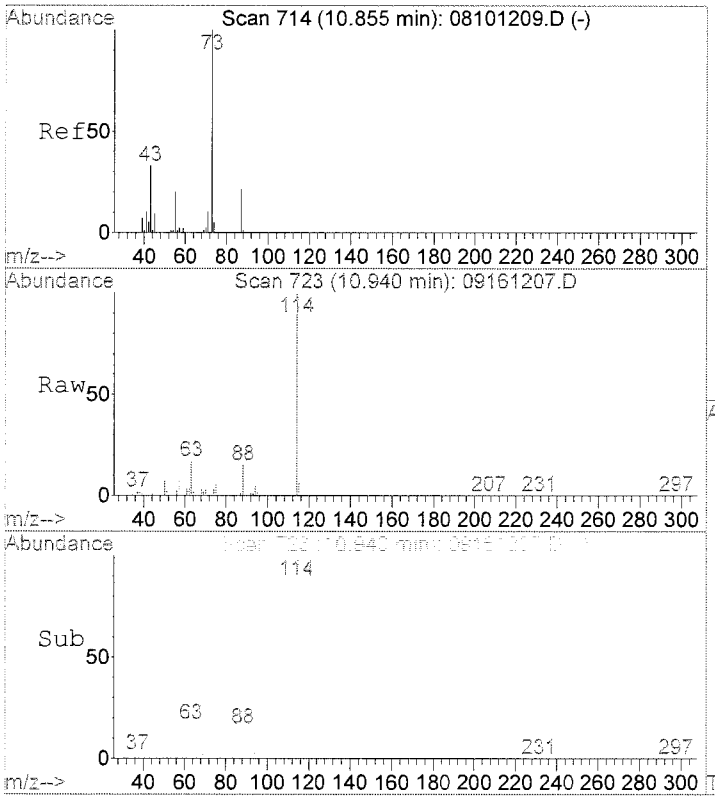


#31
Tetrahydrofuran
Concen: 0.28 ug/L
RT: 9.60 min Scan# 587
Delta R.T. 0.01 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 72 Resp: 101

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	95.0	217.1	325.7#

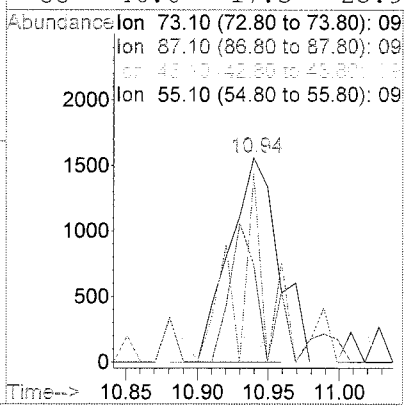


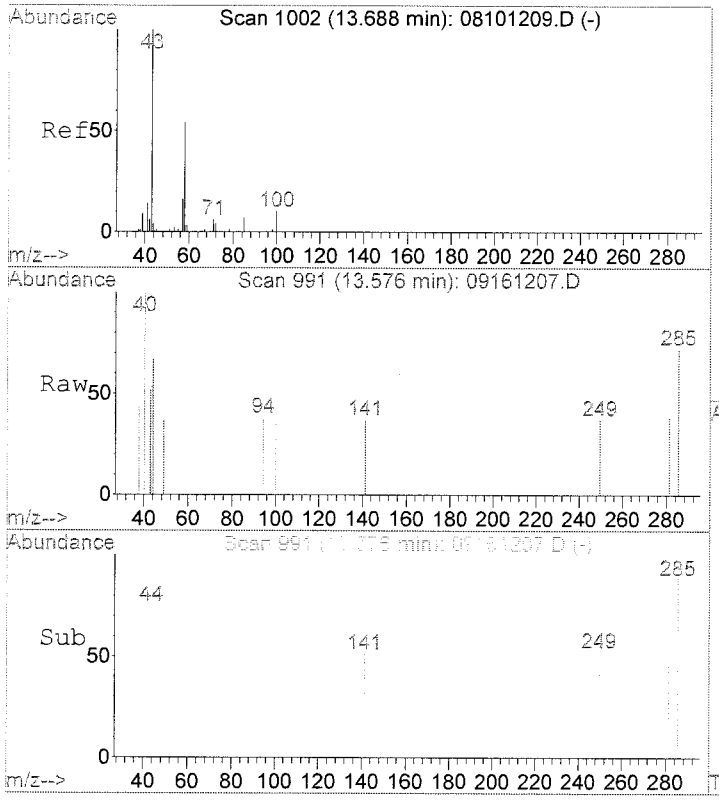


#34
(TAME) tert-Amyl methyl ether
Concen: 0.38 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 73 Resp: 3767

Ion	Ratio	Lower	Upper
73	100		
87	36.9	16.4	24.6#
43	11.0	27.0	40.4#
55	46.0	17.3	25.9#

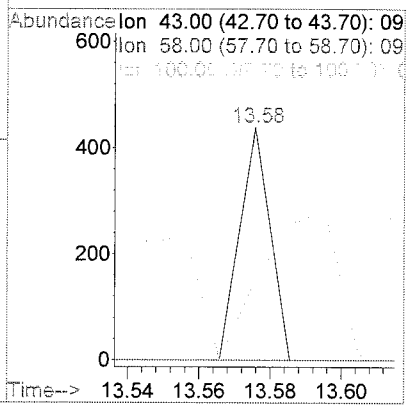


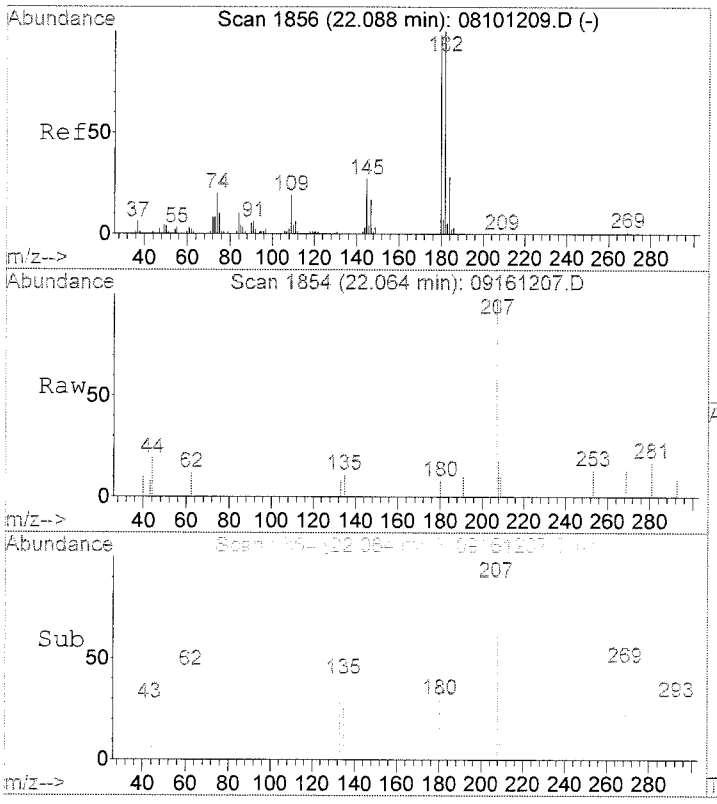


#52
2-Hexanone
Concen: 0.13 ug/L
RT: 13.58 min Scan# 991
Delta R.T. -0.11 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion: 43 Resp: 259

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#

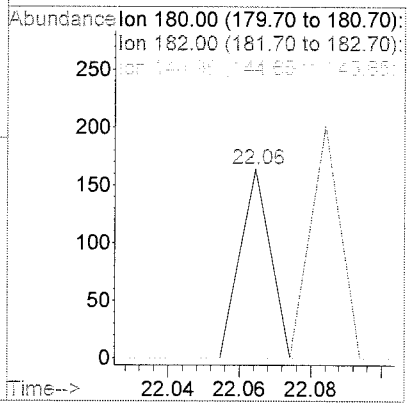




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.06 min Scan# 1854
Delta R.T. -0.02 min
Lab File: 09161207.D
Acq: 16 Sep 2012 11:36 am

Tgt Ion:180 Resp: 97

Ion	Ratio	Lower	Upper
180	100		
182	122.7	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161210.D Vial: 10
Acq On : 16 Sep 2012 1:14 pm Operator: EH
Sample : PVI0717-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:53 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	59195	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	251420	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	361240	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	262008	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	96038	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	119021	27.07 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 108.28%	
48) Toluene-d8	13.31	98	345844	24.24 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.96%	
62) 4-Bromofluorobenzene	16.94	95	96694	23.88 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 95.52%	

Target Compounds					Qvalue
2) Ethanol	5.51	45	2806	87.92 ug/L	IBY/NT 86
3) tert-Butanol (TBA)	6.85	59	149	0.43 ug/L #	1
9) Bromomethane	5.07	94	2118	0.42 ug/L #	20
12) Acetone	6.23	43	3947	3.73 ug/L #	47
23) 2-Butanone (MEK)	8.85	72	162	0.45 ug/L #	1
25) cis-1,2-Dichloroethene	8.91	96	631	0.12 ug/L #	74
27) Chloroform	9.18	83	801	0.10 ug/L #	81
31) Tetrahydrofuran	9.66	72	102	0.31 ug/L #	5
34) (TAME) tert-Amyl methyl et	10.94	73	4022	0.45 ug/L #	32
41) Trichloroethene	11.47	95	796	0.15 ug/L #	61
43) 2-Chlorovinylethylether	12.13	63	187	0.11 ug/L #	45
55) Tetrachloroethene	14.40	164	433	0.09 ug/L	96
67) trans-1,4-Dichloro-2-buten	16.50	53	89	1.16 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.84	75	102	0.56 ug/L #	34

Cattr

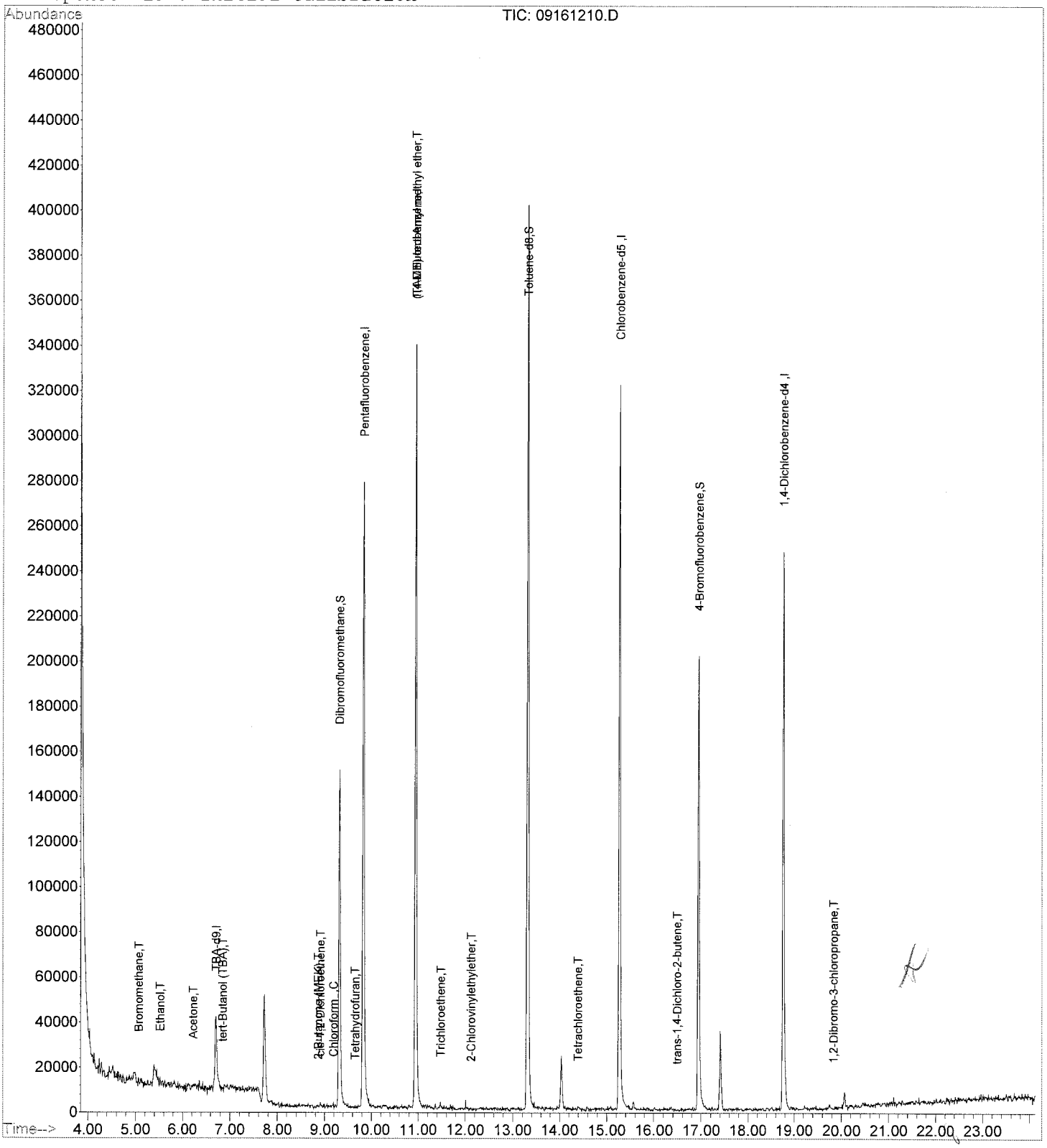
1/0 091712

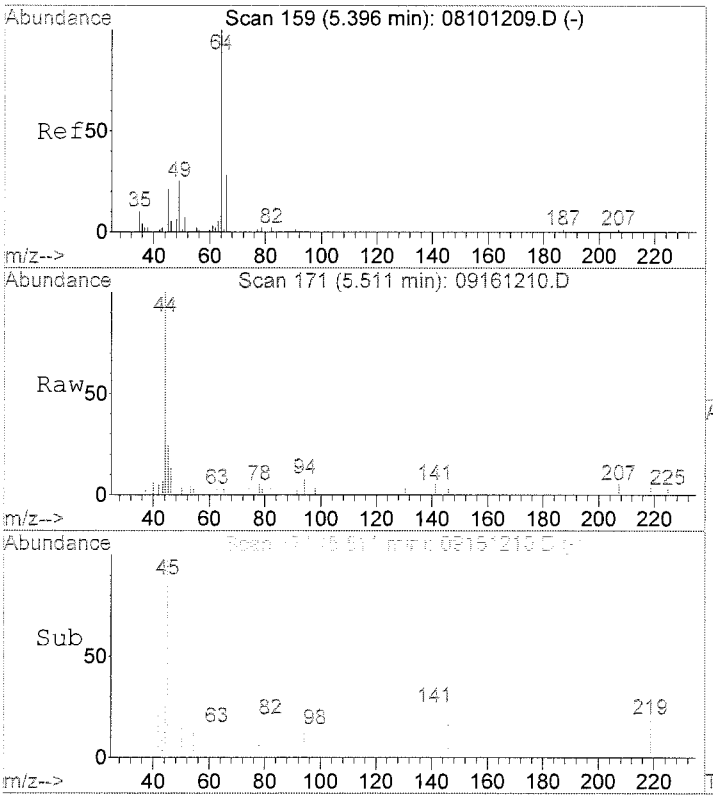
(#) = qualifier out of range (m) = manual integration
09161210.D 081012.M Mon Sep 17 08:53:34 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161210.D Vial: 10
Acq On : 16 Sep 2012 1:14 pm Operator: EH
Sample : PVI0717-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:53 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

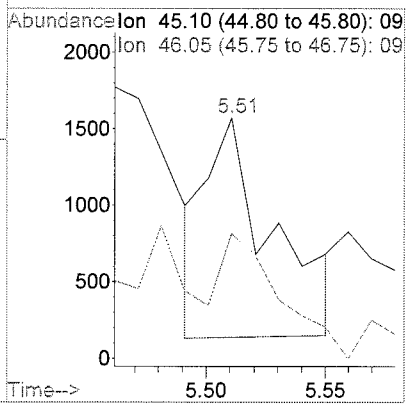


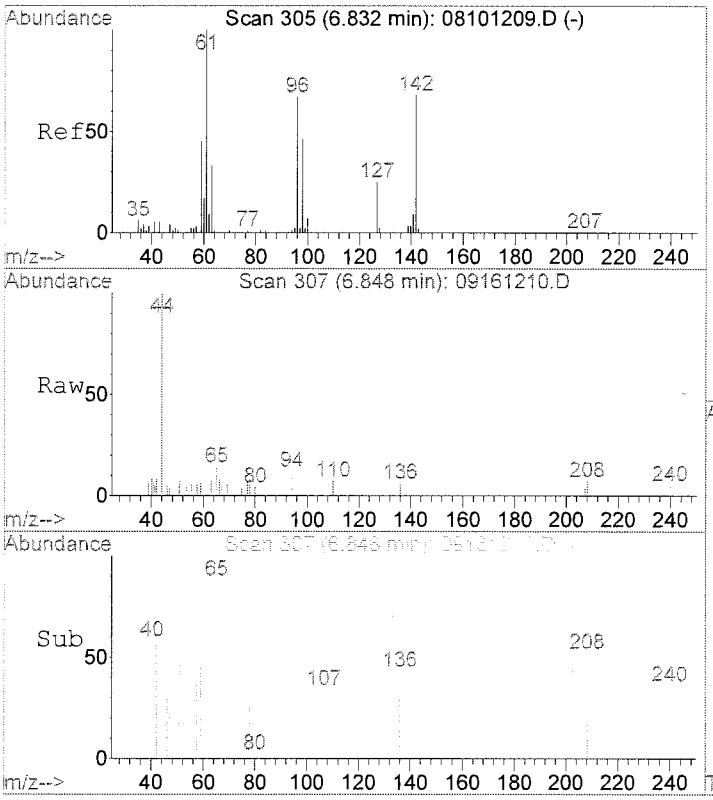


#2
Ethanol
Concen: 87.92 ug/L
RT: 5.51 min Scan# 171
Delta R.T. 0.11 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 45 Resp: 2806

Ion	Ratio	Lower	Upper
45	100		
46	49.4	39.9	79.9

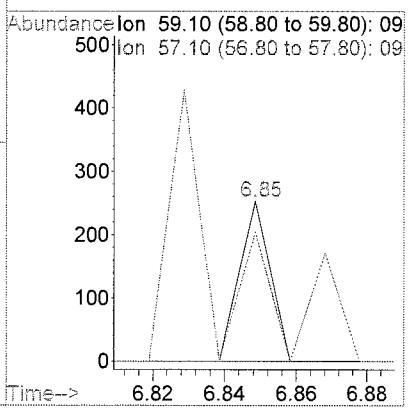


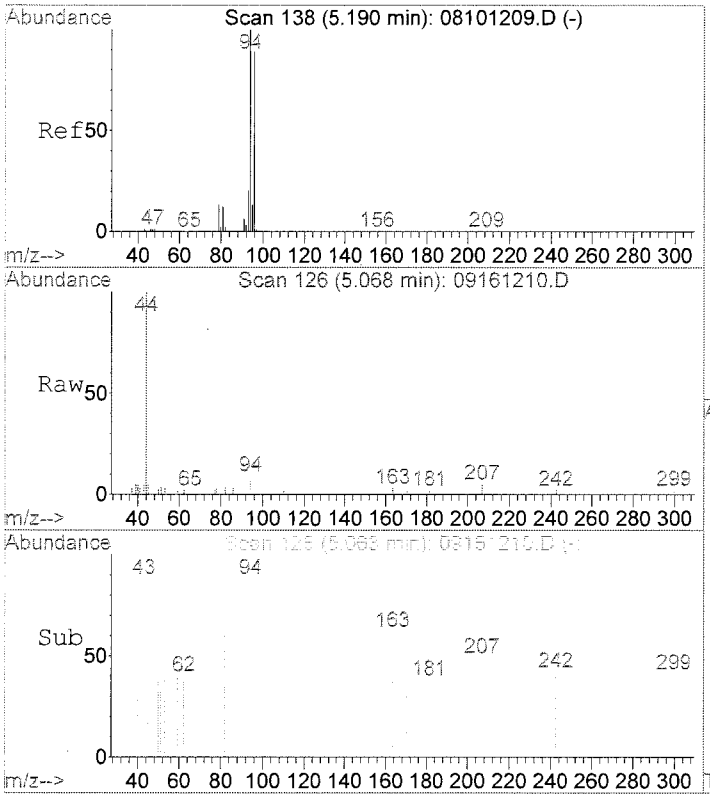


#3
tert-Butanol (TBA)
Concen: 0.43 ug/L
RT: 6.85 min Scan# 307
Delta R.T. 0.02 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 59 Resp: 149

Ion	Ratio	Lower	Upper
59	100		
57	318.1	6.4	9.6#

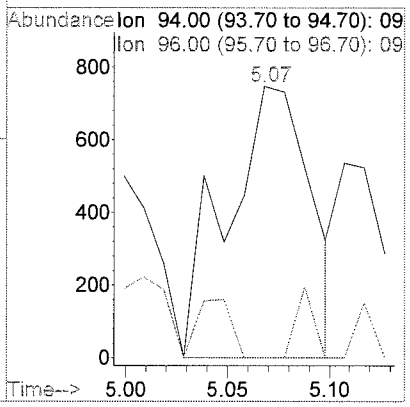


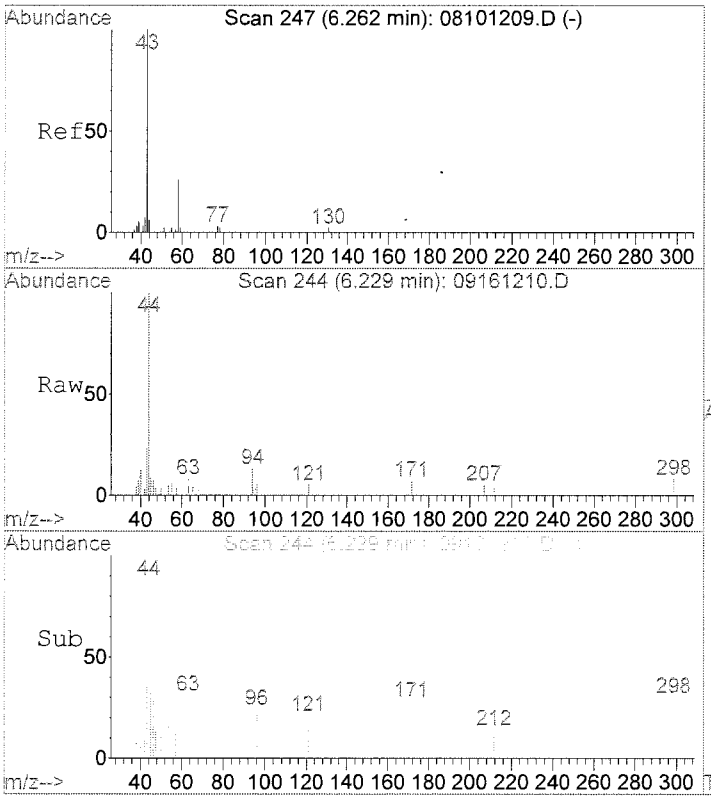


#9
Bromomethane
Concen: 0.42 ug/L
RT: 5.07 min Scan# 126
Delta R.T. -0.12 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 94 Resp: 2118

Ion	Ratio	Lower	Upper
94	100		
96	16.7	75.8	113.6#

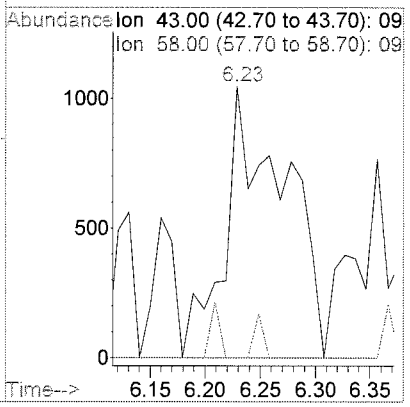


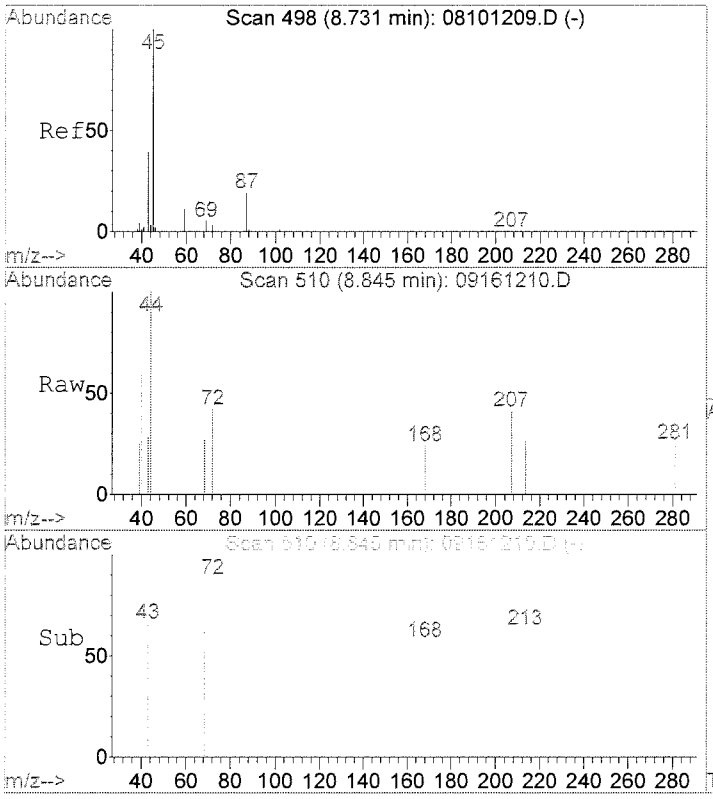


#12
Acetone
Concen: 3.73 ug/L
RT: 6.23 min Scan# 244
Delta R.T. -0.03 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 43 Resp: 3947

Ion	Ratio	Lower	Upper
43	100		
58	2.5	25.9	38.9#

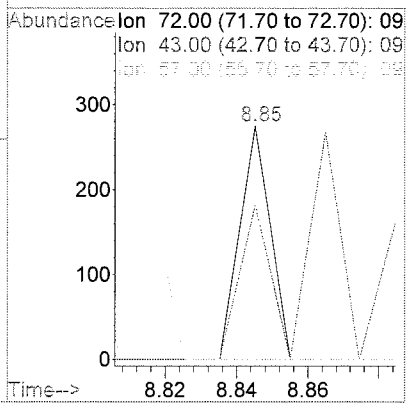


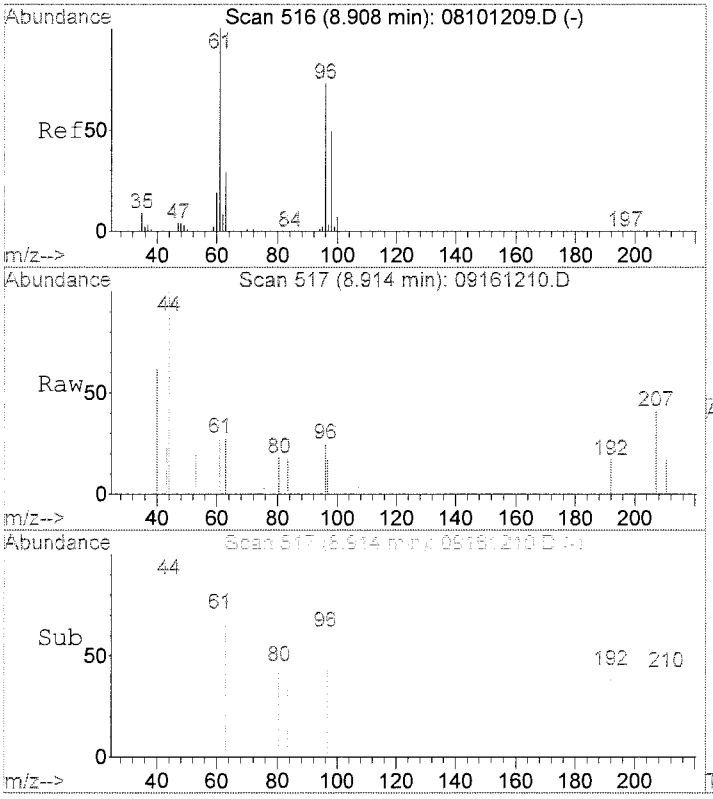


#23
2-Butanone (MEK)
Concen: 0.45 ug/L
RT: 8.85 min Scan# 510
Delta R.T. 0.11 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 72 Resp: 162

Ion	Ratio	Lower	Upper
72	100		
43	156.2	1366.5	2049.7#
57	72.2	0.0	0.0#

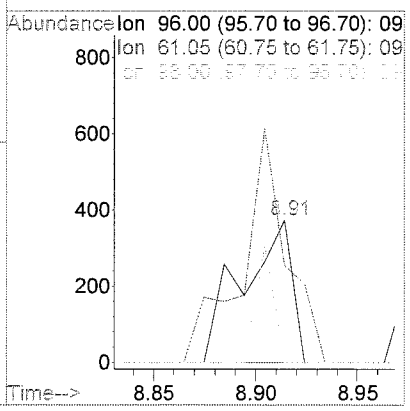


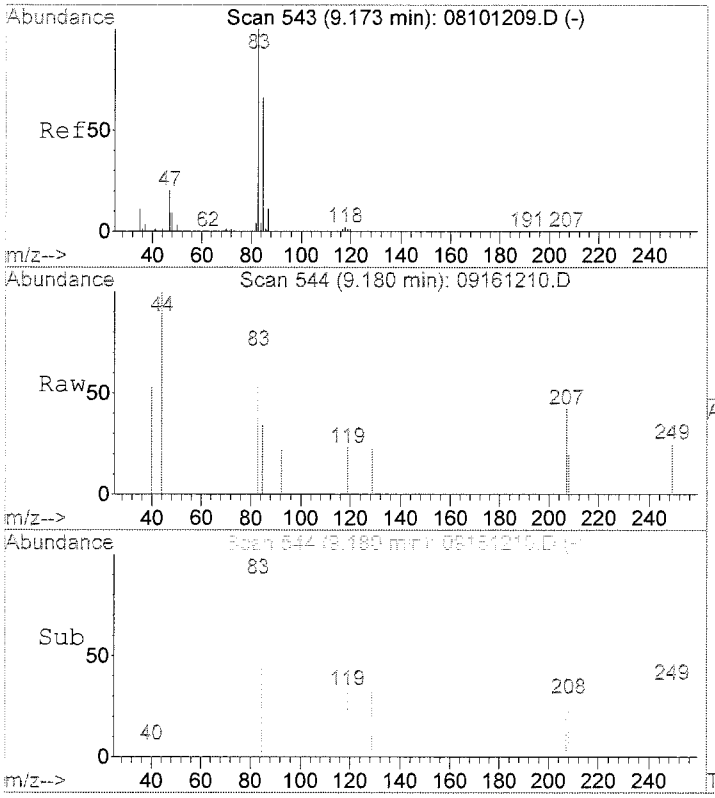


#25
cis-1,2-Dichloroethene
Concen: 0.12 ug/L
RT: 8.91 min Scan# 517
Delta R.T. 0.01 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 96 Resp: 631

Ion	Ratio	Lower	Upper
96	100		
61	147.5	103.2	154.8
98	28.7	51.4	77.2#

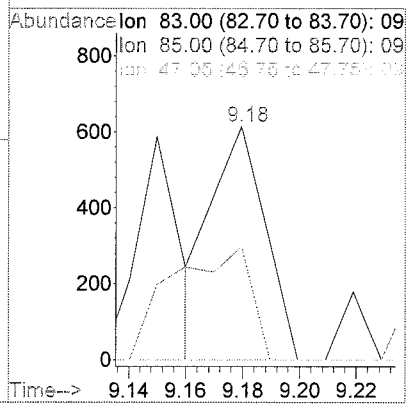


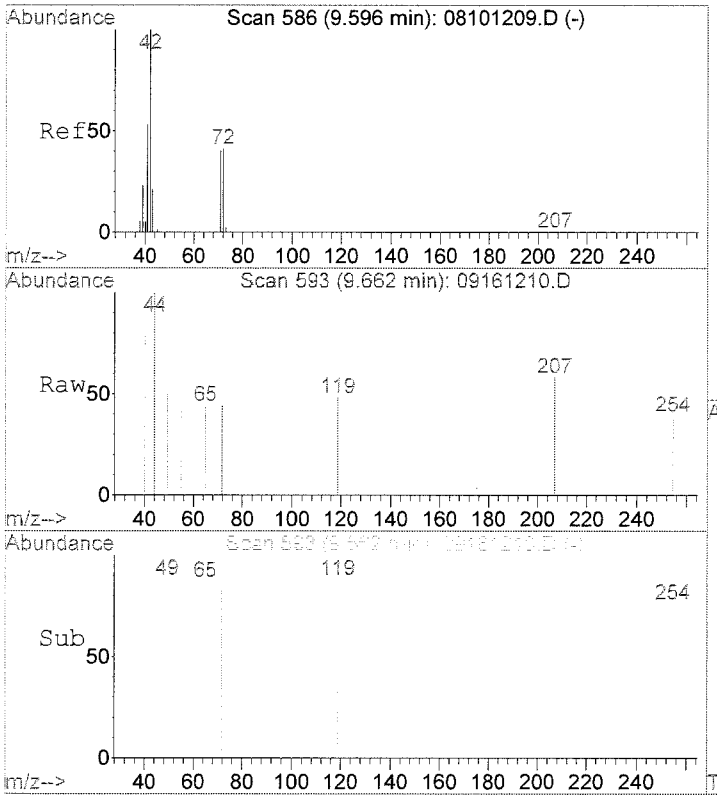


#27
Chloroform
Concen: 0.10 ug/L
RT: 9.18 min Scan# 544
Delta R.T. 0.01 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 83 Resp: 801

Ion	Ratio	Lower	Upper
83	100		
85	71.4	51.6	77.4
47	0.0	18.9	28.3#

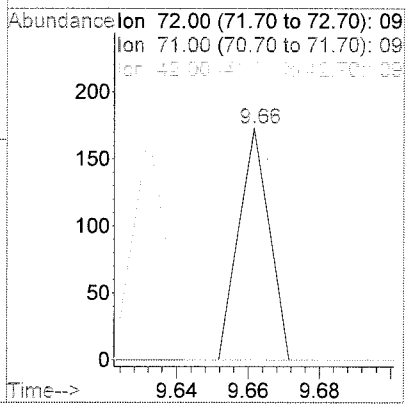


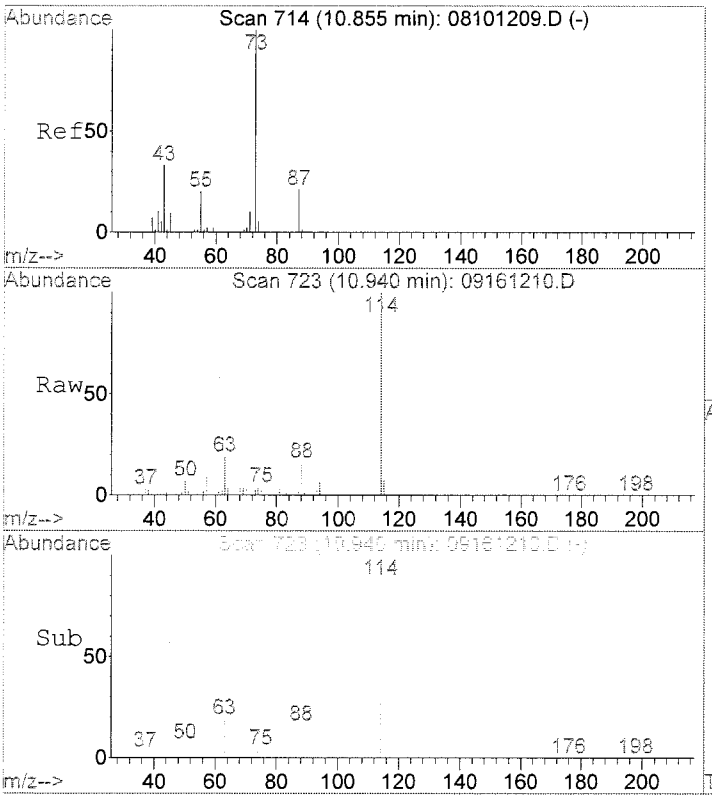


#31
Tetrahydrofuran
Concen: 0.31 ug/L
RT: 9.66 min Scan# 593
Delta R.T. 0.07 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 72 Resp: 102

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	101.0	217.1	325.7#

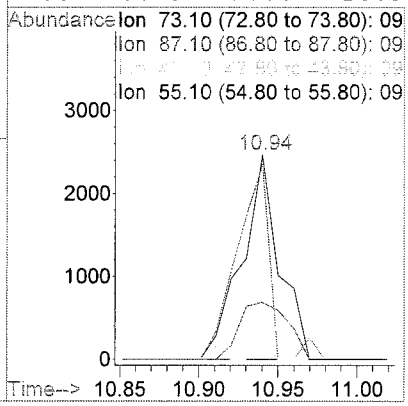


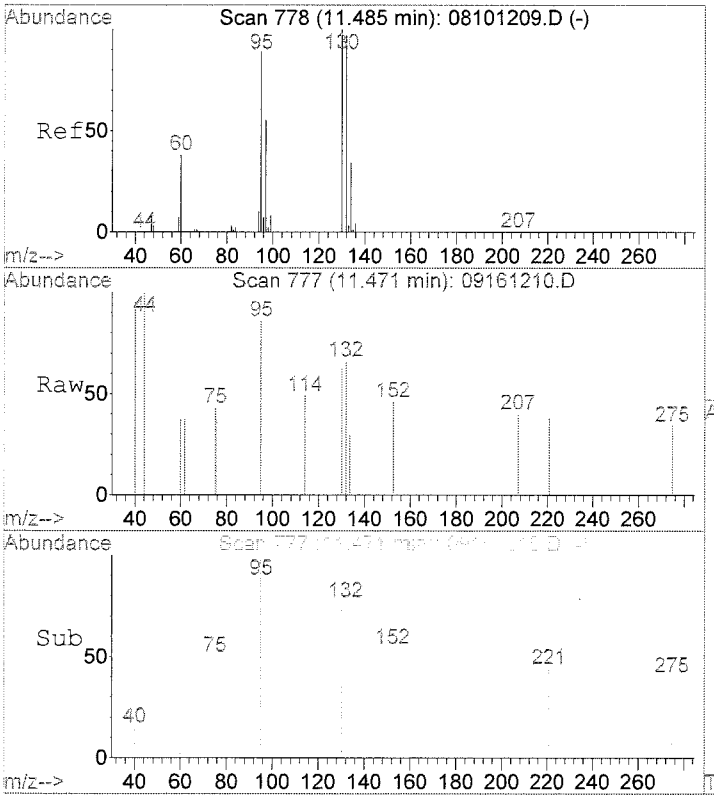


#34
(TAME) tert-Amyl methyl ether
Concen: 0.45 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 73 Resp: 4022

Ion	Ratio	Lower	Upper
73	100		
87	80.7	16.4	24.6#
43	2.3	27.0	40.4#
55	36.0	17.3	25.9#

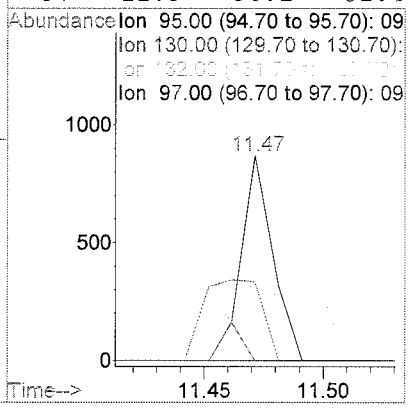


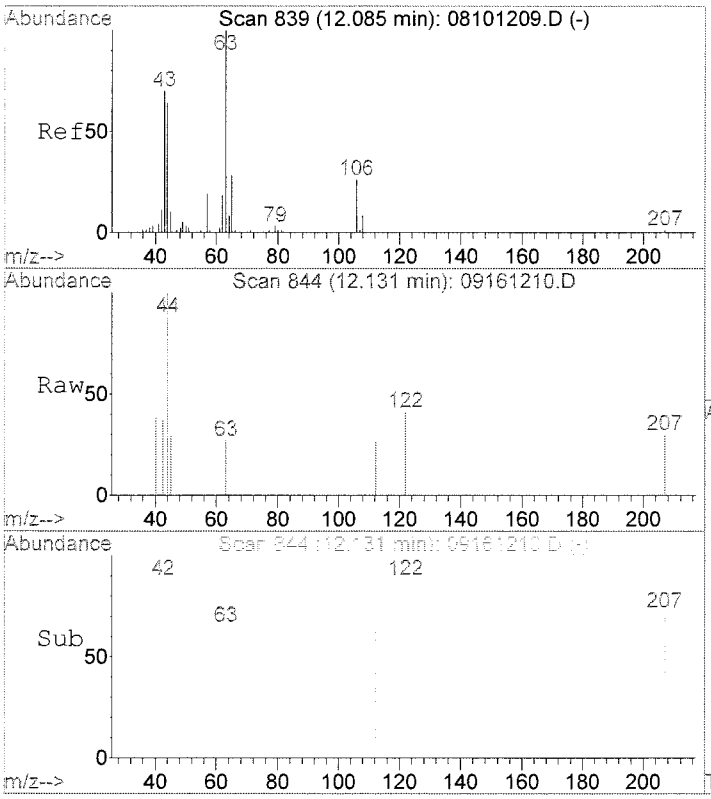


#41
Trichloroethene
Concen: 0.15 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 95 Resp: 796

Ion	Ratio	Lower	Upper
95	100		
130	73.4	87.3	130.9#
132	130.9	84.2	126.4#
97	11.9	54.2	81.4#

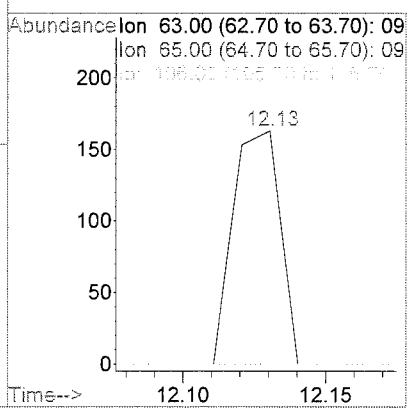


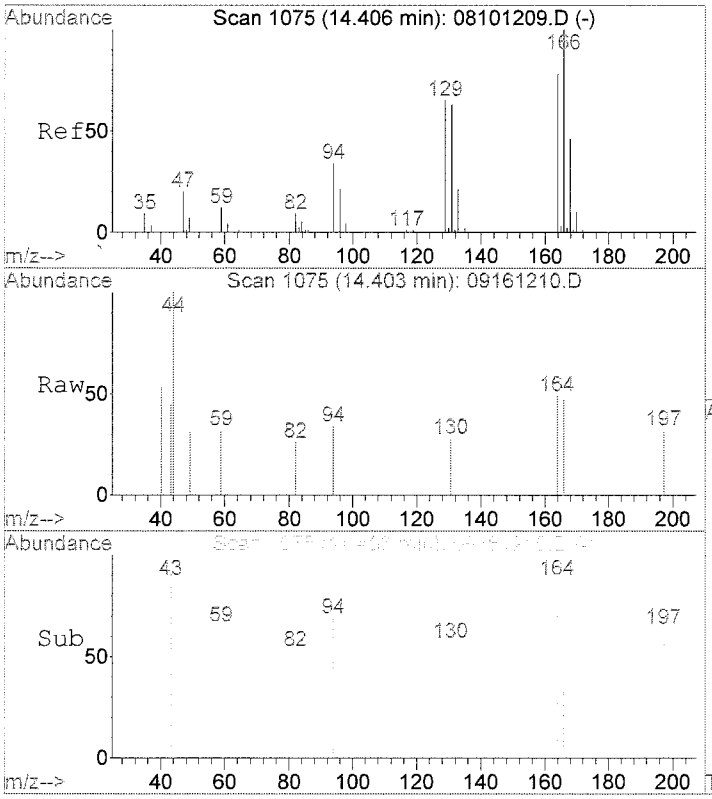


#43
2-Chlorovinylethylether
Concen: 0.11 ug/L
RT: 12.13 min Scan# 844
Delta R.T. 0.05 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 63 Resp: 187

Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.9	38.9#
106	0.0	20.4	30.6#

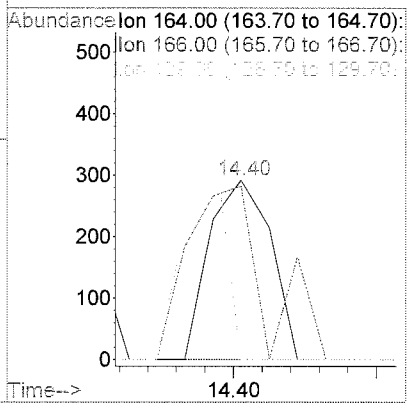


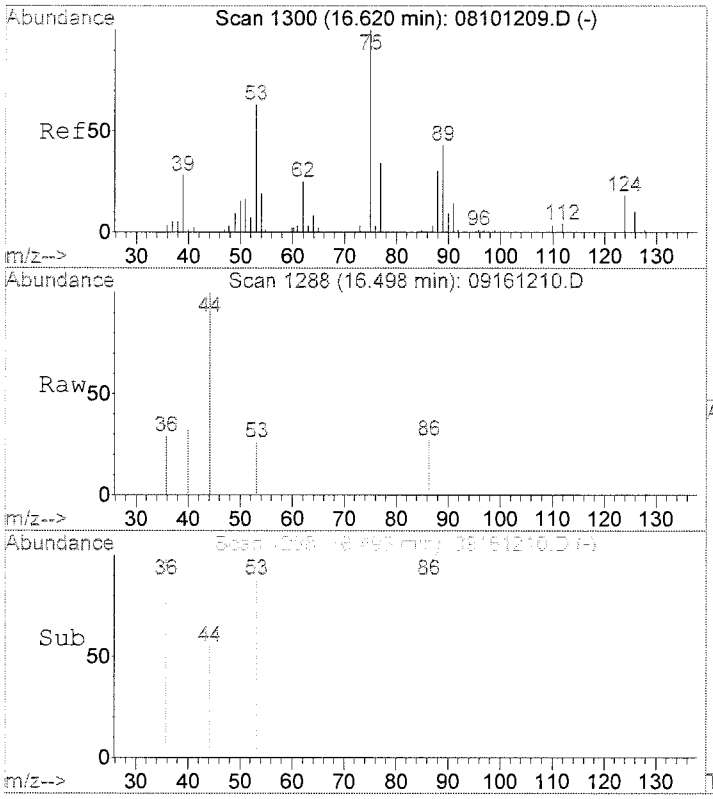


#55
Tetrachloroethene
Concen: 0.09 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion:164 Resp: 433

Ion	Ratio	Lower	Upper
164	100		
166	122.6	102.1	153.1
129	81.1	66.5	99.7

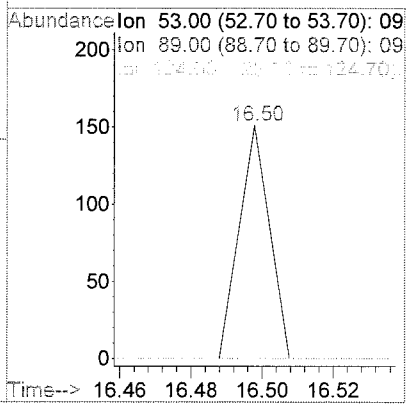


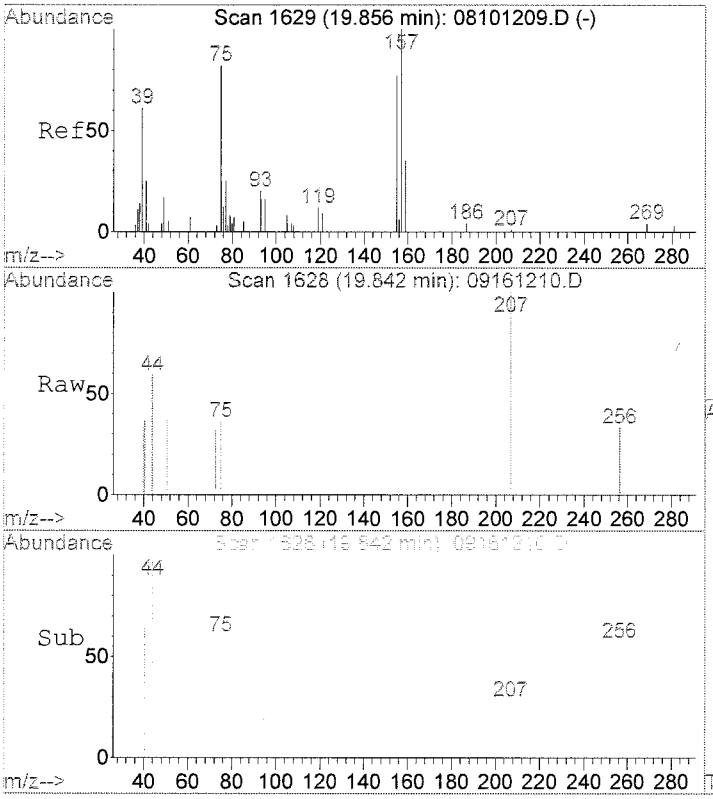


#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.50 min Scan# 1288
Delta R.T. -0.12 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 53 Resp: 89

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

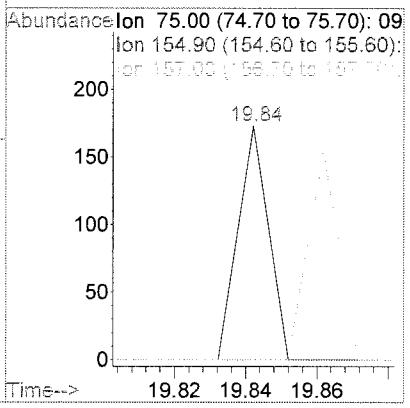




#82
1,2-Dibromo-3-chloropropane
Concen: 0.56 ug/L
RT: 19.84 min Scan# 1628
Delta R.T. -0.01 min
Lab File: 09161210.D
Acq: 16 Sep 2012 1:14 pm

Tgt Ion: 75 Resp: 102

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	89.2	110.1	165.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161211.D Vial: 11
Acq On : 16 Sep 2012 1:47 pm Operator: EH
Sample : PVI0717-03 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:53 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	54299	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	256379	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	357218	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	263316	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	100973	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	121938	27.19 ug/L	-0.01
Spiked Amount 25.000			Recovery =	108.76%	
48) Toluene-d8	13.32	98	344458	24.42 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.68%	
62) 4-Bromofluorobenzene	16.94	95	98657	24.25 ug/L	-0.01
Spiked Amount 25.000			Recovery =	97.00%	

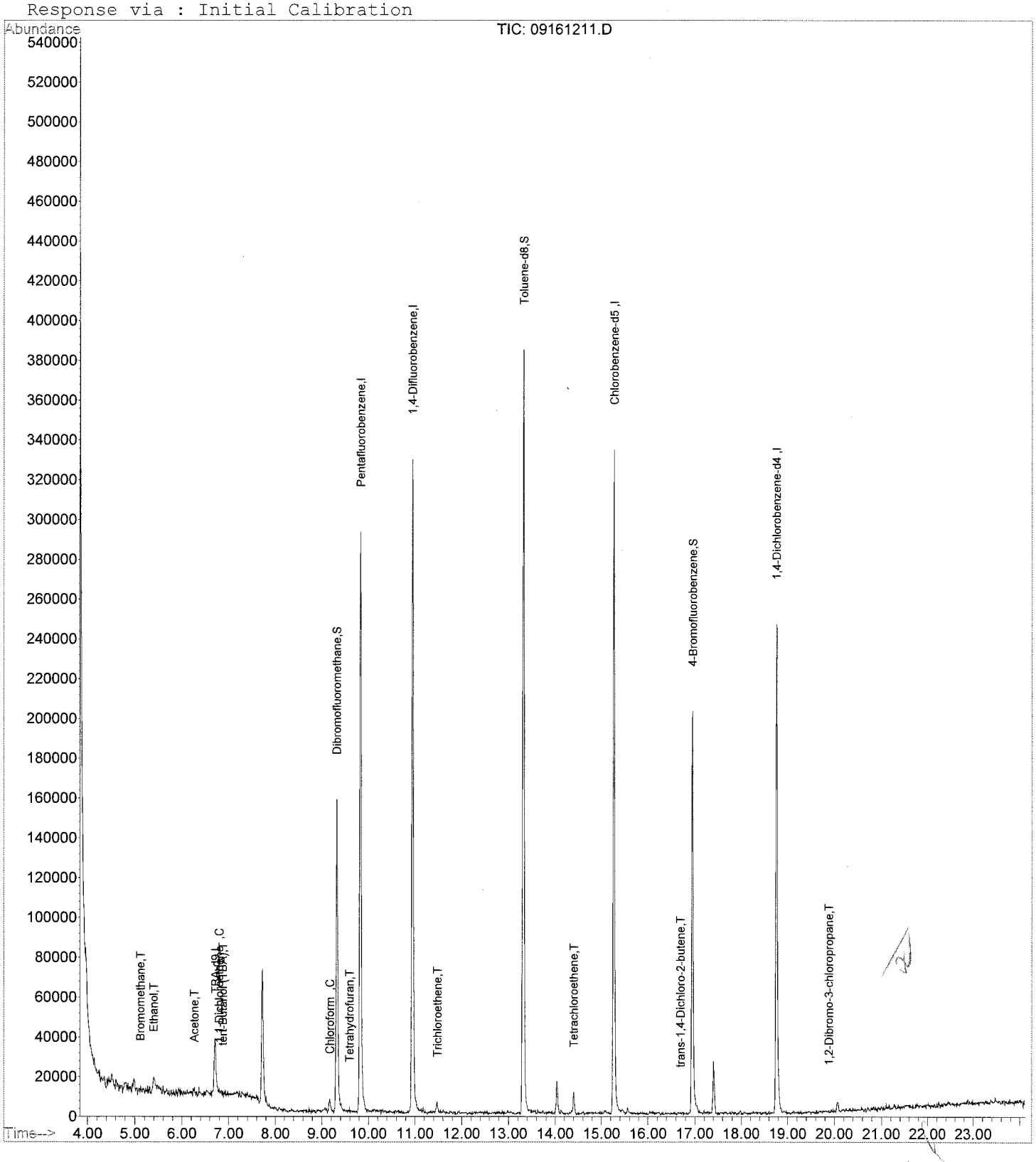
Target Compounds					Qvalue
2) Ethanol	5.39	45	15841	541.12 ug/L	78
3) tert-Butanol (TBA)	6.87	59	95	0.30 ug/L #	1
9) Bromomethane	5.13	94	1248	0.24 ug/L #	36
12) Acetone	6.27	43	4725	4.38 ug/L #	49
14) 1,1-Dichloroethene	6.81	96	543	0.11 ug/L #	1
27) Chloroform	9.17	83	6660	0.82 ug/L #	81
31) Tetrahydrofuran	9.58	72	110	0.33 ug/L #	1
41) Trichloroethene	11.47	95	1619	0.32 ug/L #	59
55) Tetrachloroethene	14.40	164	2758	0.59 ug/L #	69
67) trans-1,4-Dichloro-2-buten	16.69	53	89	1.15 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.87	75	103	0.55 ug/L #	1

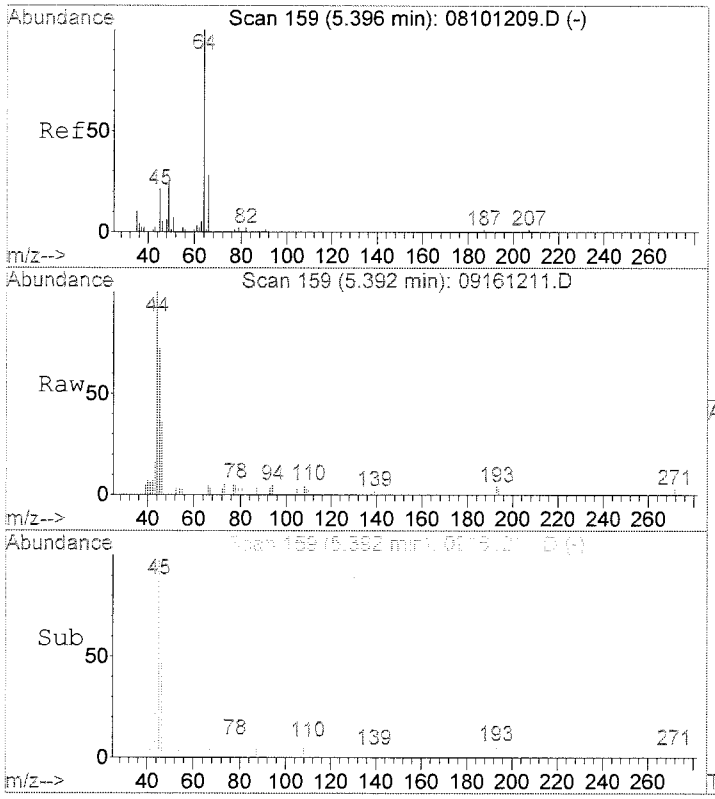
(#) = qualifier out of range (m) = manual integration
09161211.D 081012.M Mon Sep 17 08:53:59 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161211.D Vial: 11
Acq On : 16 Sep 2012 1:47 pm Operator: EH
Sample : PVI0717-03 Inst : GC/MS #2
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:53 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

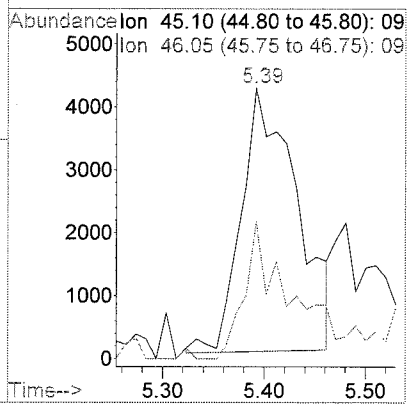


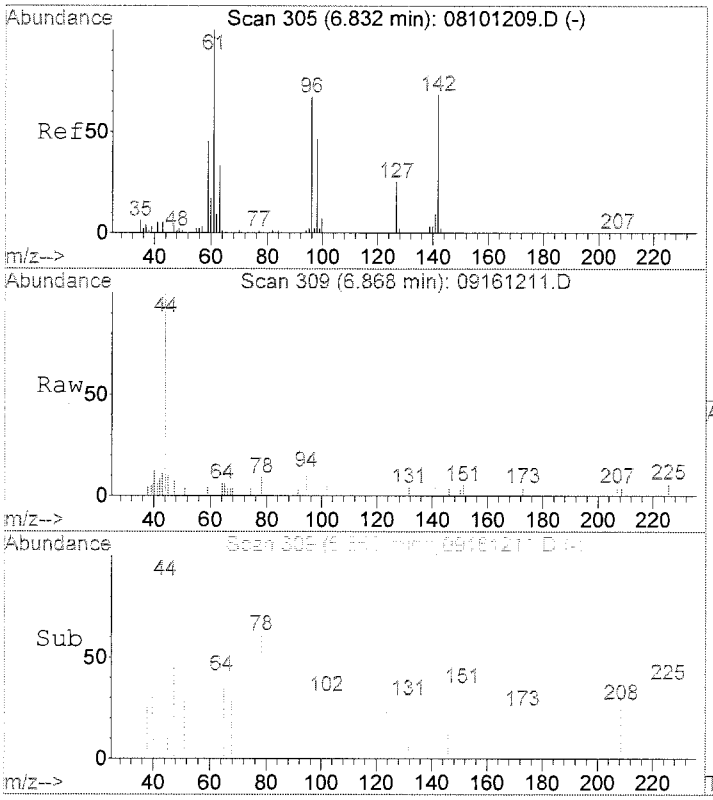


#2
Ethanol
Concen: 541.12 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 45 Resp: 15841

Ion	Ratio	Lower	Upper
45	100		
46	43.5	39.9	79.9

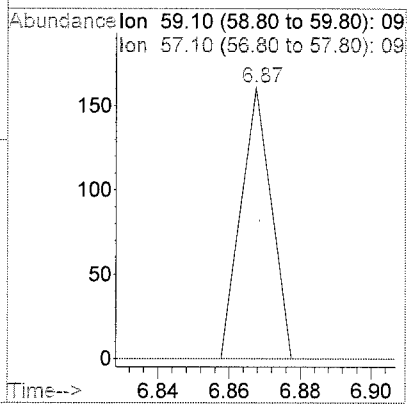


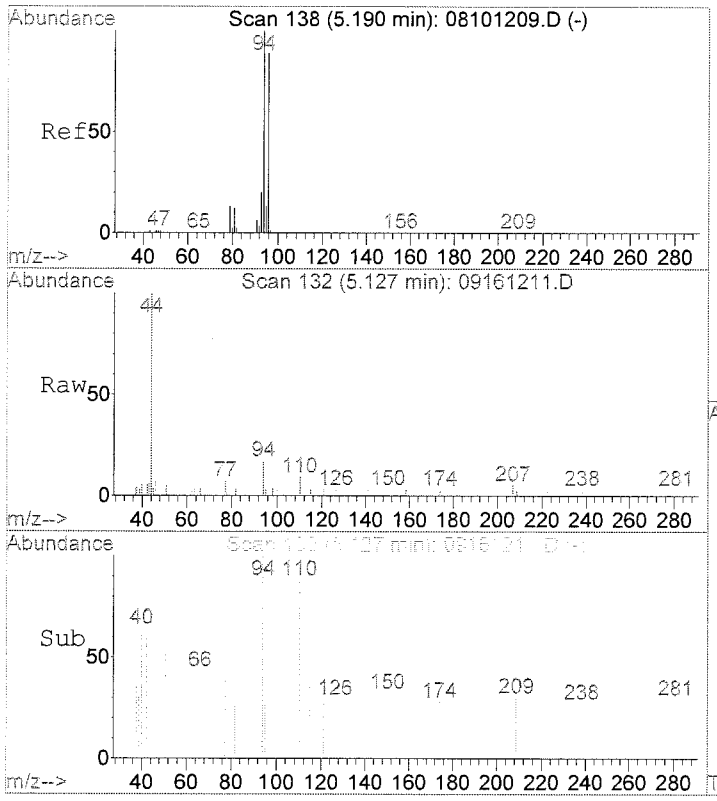


#3
tert-Butanol (TBA)
Concen: 0.30 ug/L
RT: 6.87 min Scan# 309
Delta R.T. 0.04 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 59 Resp: 95

Ion	Ratio	Lower	Upper
59	100		
57	129.5	6.4	9.6#

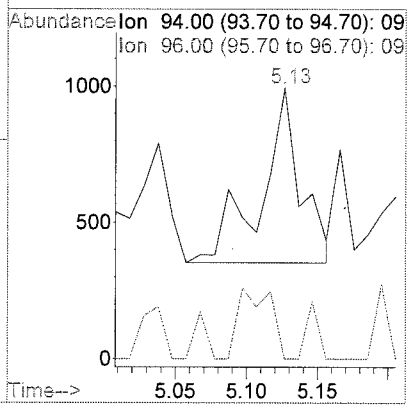


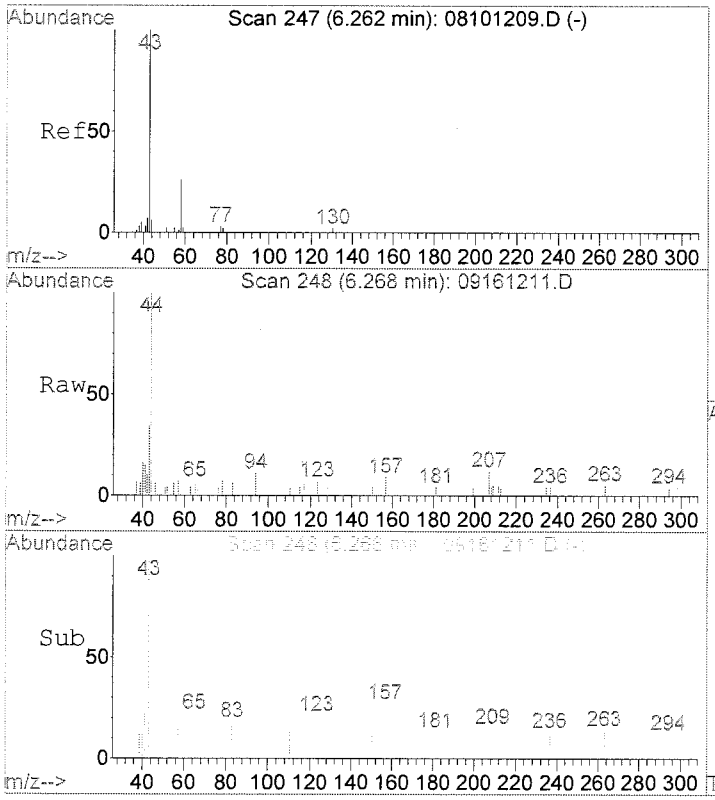


#9
Bromomethane
Concen: 0.24 ug/L
RT: 5.13 min Scan# 132
Delta R.T. -0.06 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 94 Resp: 1248

Ion	Ratio	Lower	Upper
94	100		
96	33.0	75.8	113.6#

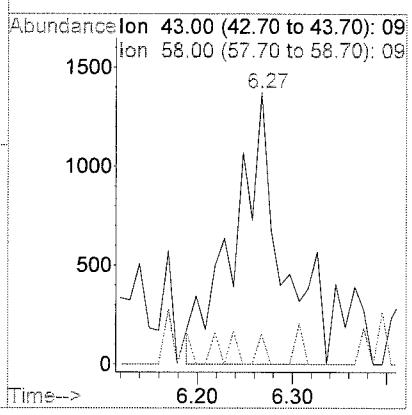


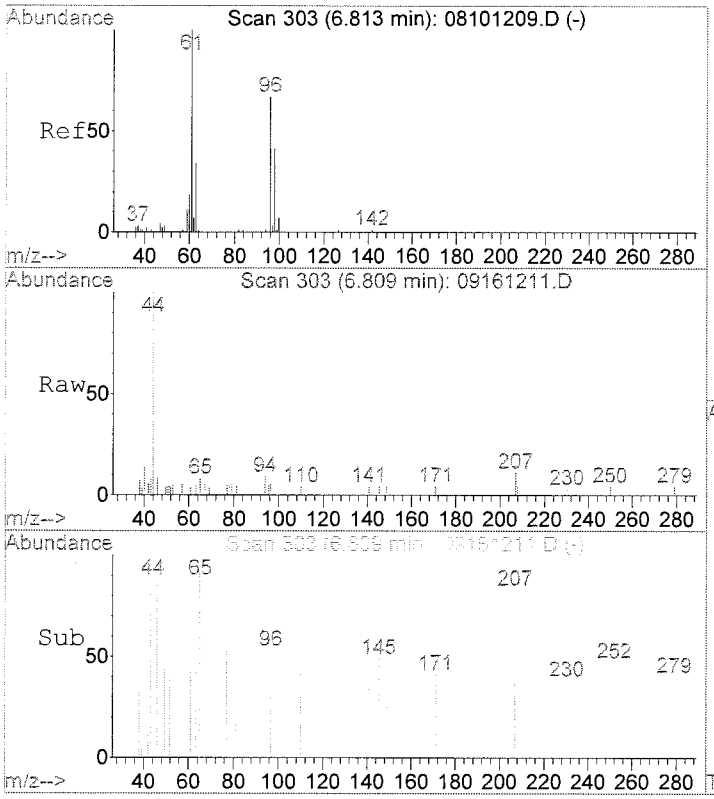


#12
Acetone
Concen: 4.38 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 43 Resp: 4725

Ion	Ratio	Lower	Upper
43	100		
58	4.1	25.9	38.9#

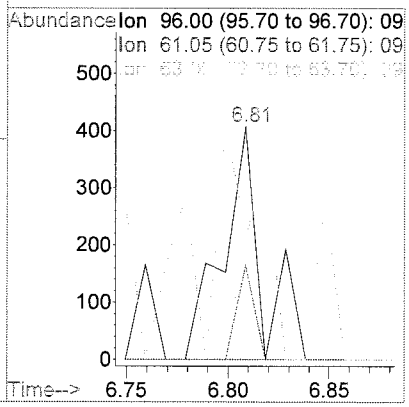


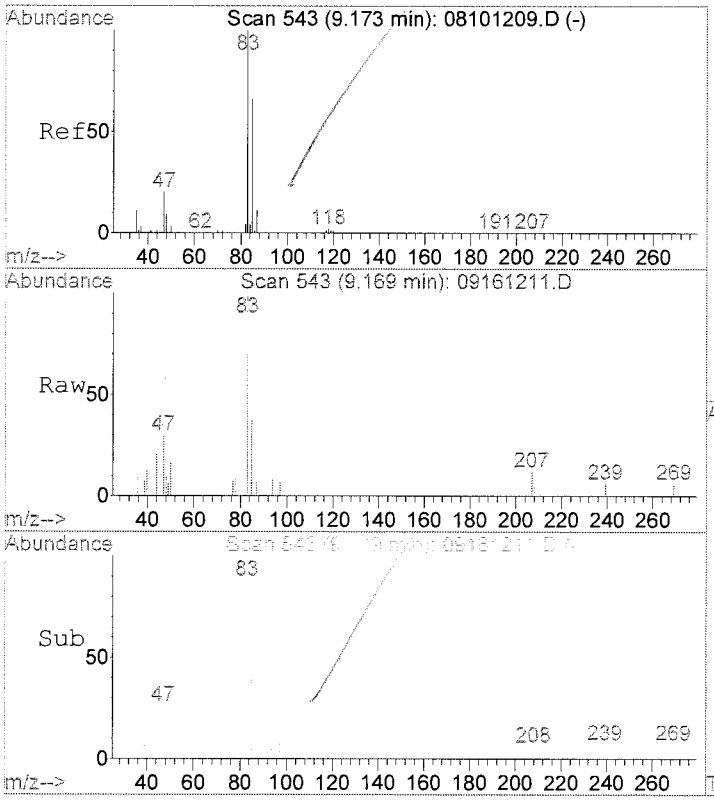


#14
1,1-Dichloroethene
Concen: 0.11 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.00 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 96 Resp: 543

Ion	Ratio	Lower	Upper
96	100		
61	17.9	128.0	192.0#
63	104.2	41.2	61.8#



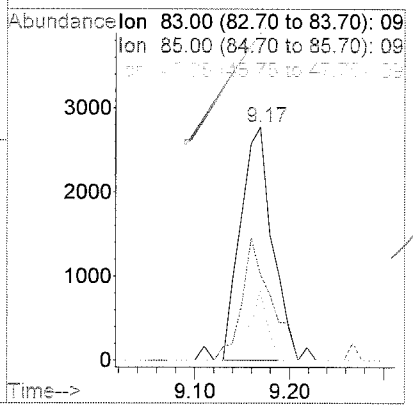


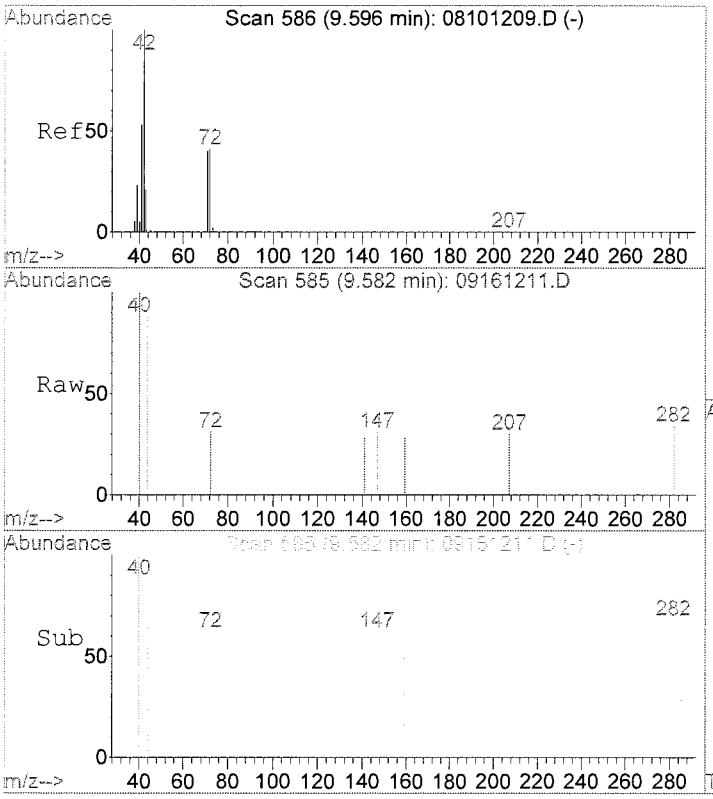
#27
Chloroform
Concen: 0.82 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 83 Resp: 6660

Ion	Ratio	Lower	Upper
83	100		
85	46.0	51.6	77.4#
47	19.8	18.9	28.3

OK

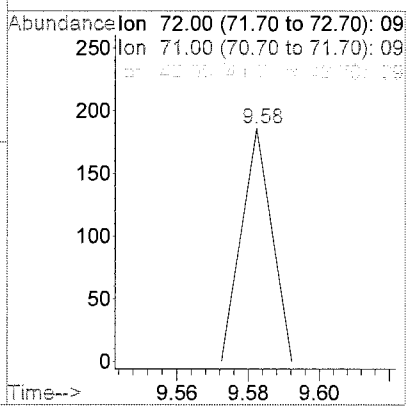


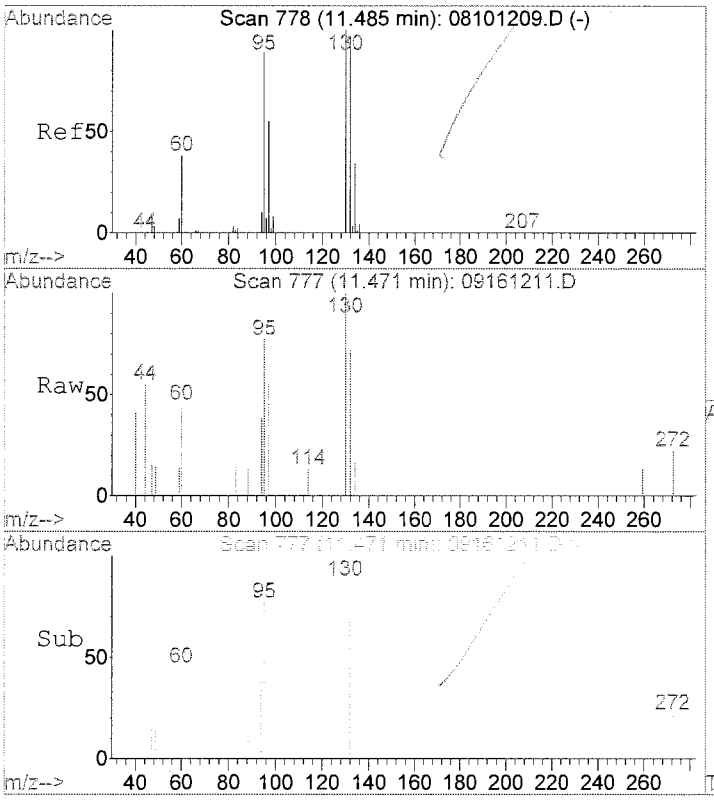


#31
Tetrahydrofuran
Concen: 0.33 ug/L
RT: 9.58 min Scan# 585
Delta R.T. -0.01 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 72 Resp: 110

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	0.0	217.1	325.7#



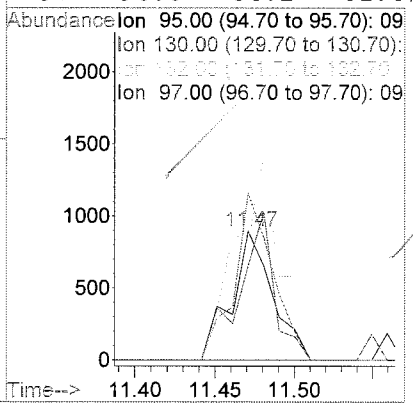


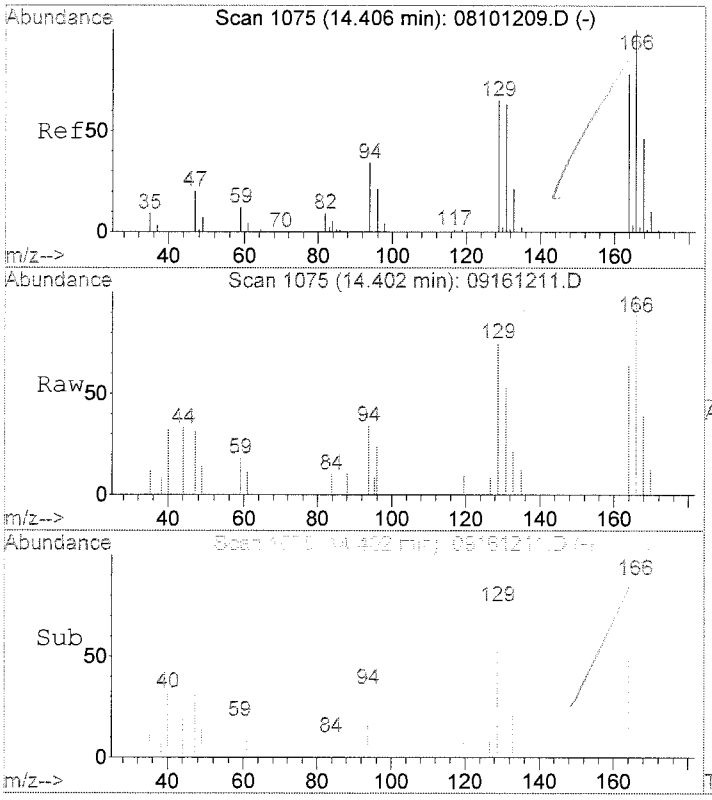
#41
Trichloroethene
Concen: 0.32 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 95 Resp: 1619

Ion	Ratio	Lower	Upper
95	100		
130	120.9	87.3	130.9
132	184.0	84.2	126.4#
97	96.5	54.2	81.4#

OK
LBC



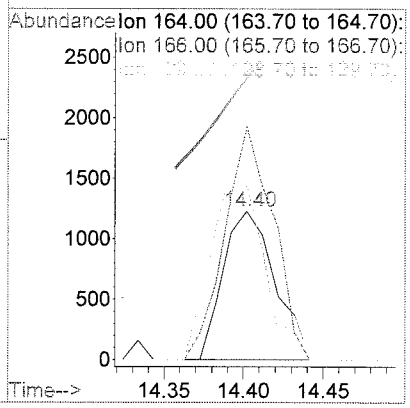


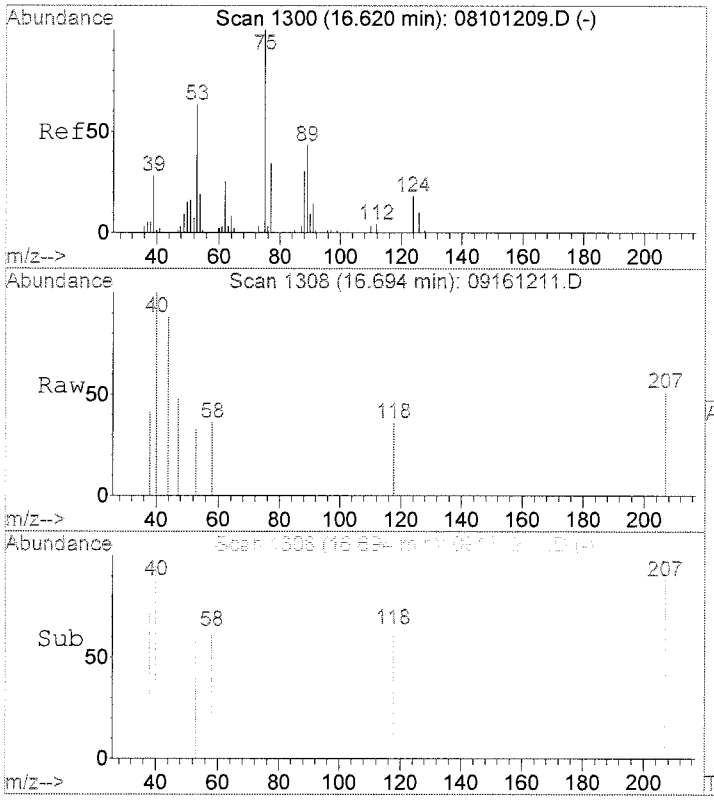
#55
Tetrachloroethene
Concen: 0.59 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion:164 Resp: 2758

Ion	Ratio	Lower	Upper
164	100		
166	147.4	102.1	153.1
129	131.0	66.5	99.7#

OK

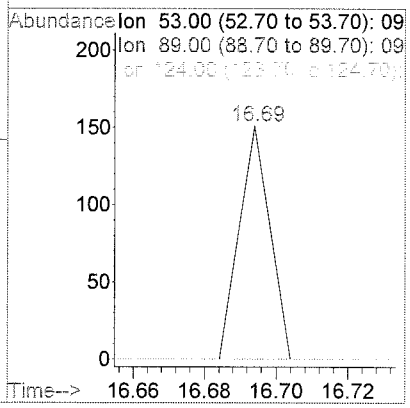


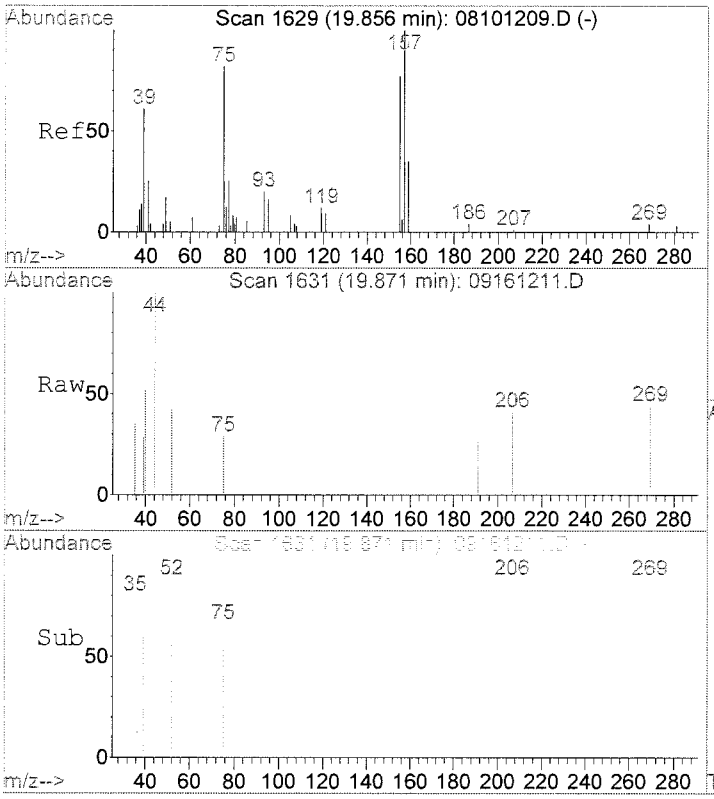


#67
trans-1,4-Dichloro-2-butene
Concen: 1.15 ug/L
RT: 16.69 min Scan# 1308
Delta R.T. 0.07 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 53 Resp: 89

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

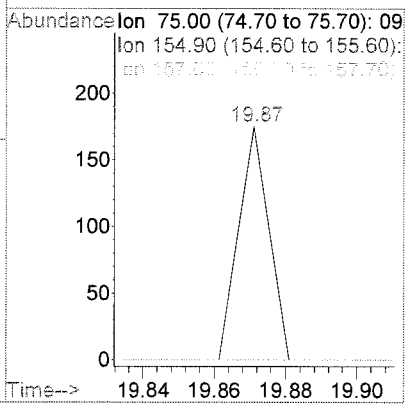




#82
1,2-Dibromo-3-chloropropane
Concen: 0.55 ug/L
RT: 19.87 min Scan# 1631
Delta R.T. 0.02 min
Lab File: 09161211.D
Acq: 16 Sep 2012 1:47 pm

Tgt Ion: 75 Resp: 103

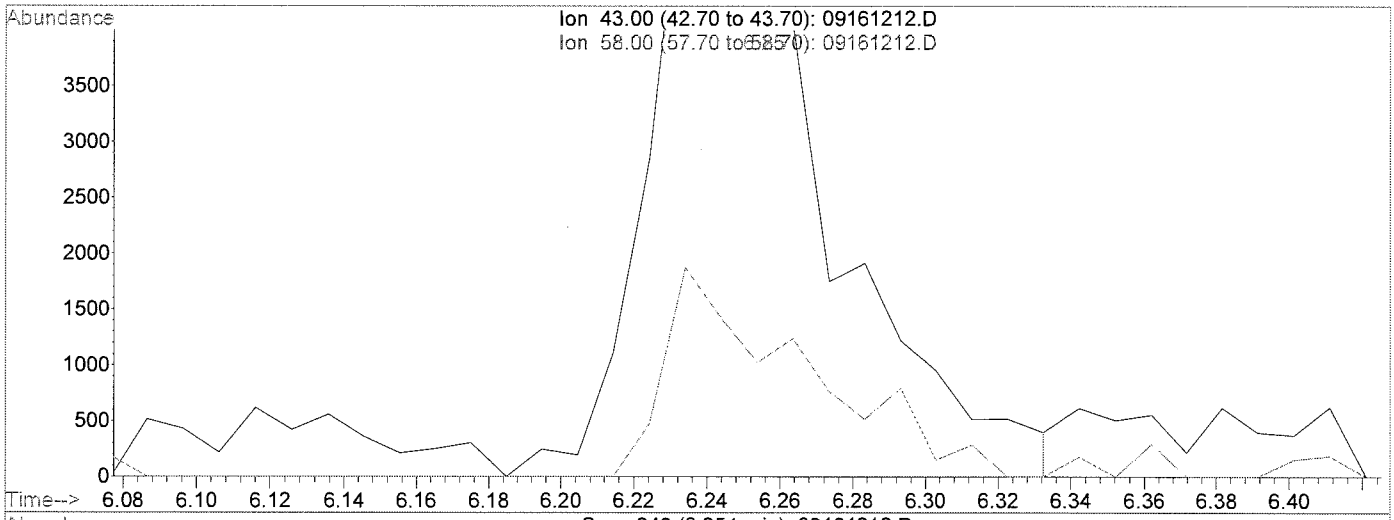
Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

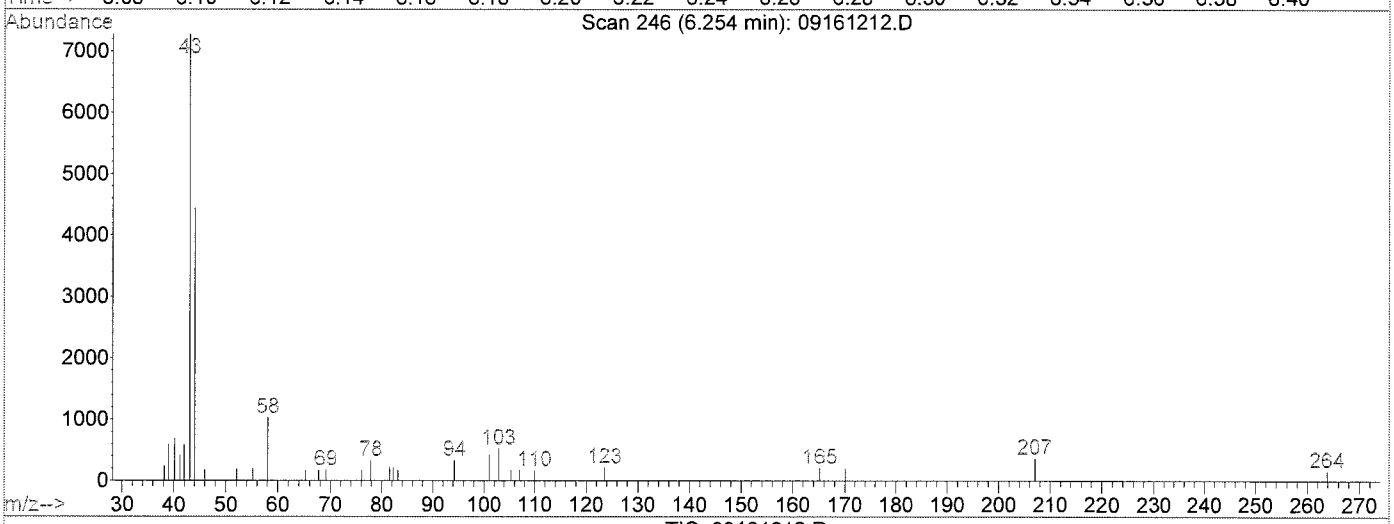


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161212.D Vial: 12
Acq On : 16 Sep 2012 2:19 pm Operator: EH
Sample : 12I0539-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161212.D

(12) Acetone (T)

6.25min 21.79ug/L

response 20881

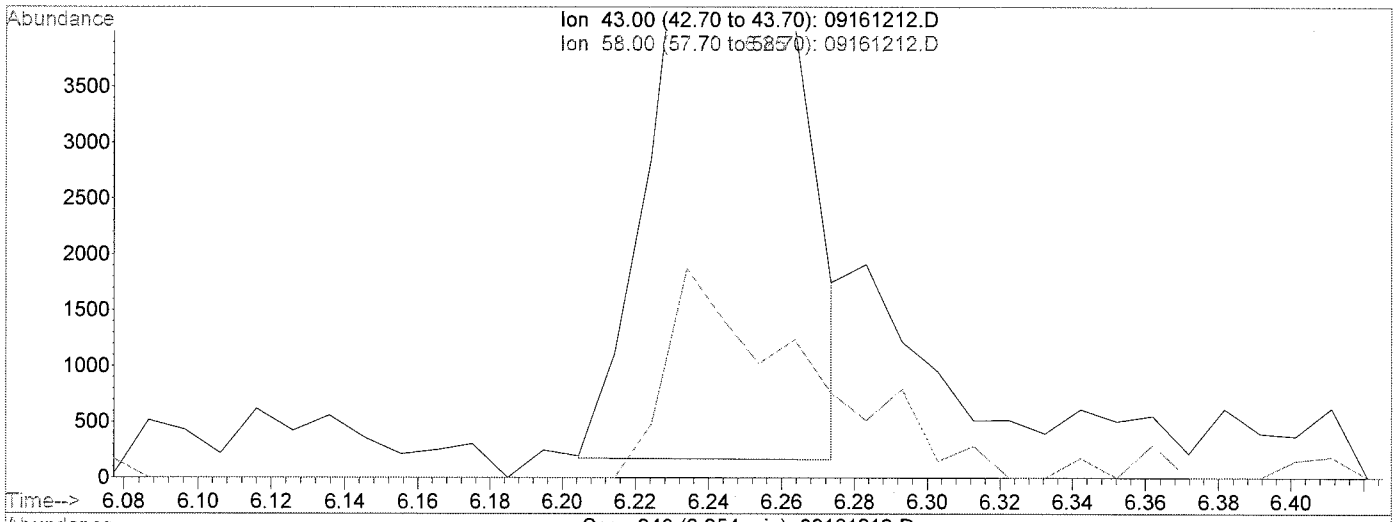
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.10#
0.00	0.00	0.00
0.00	0.00	0.00

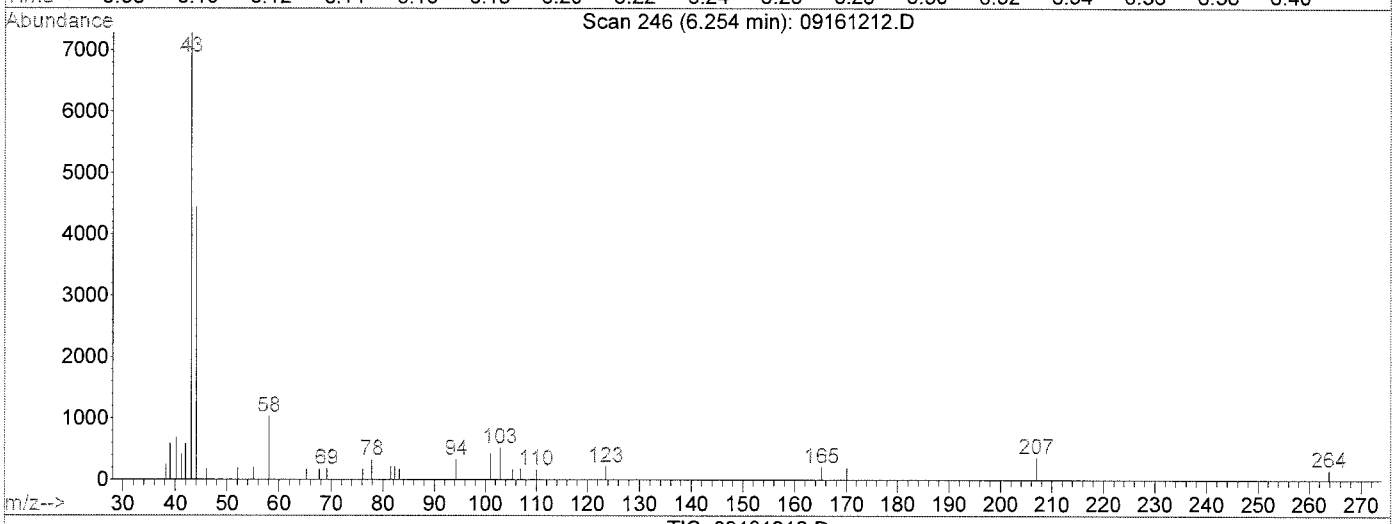
Before-BT
LA 09/17/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161212.D Vial: 12
Acq On : 16 Sep 2012 2:19 pm Operator: EH
Sample : 12I0539-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161212.D

(12) Acetone (T)

6.25min 17.41ug/L m

response 16679

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	30.18
0.00	0.00	0.00
0.00	0.00	0.00

After IC 091712

09161212.D 081012.M Mon Sep 17 08:54:27 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161212.D Vial: 12
Acq On : 16 Sep 2012 2:19 pm Operator: EH
Sample : 12I0539-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	47935	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	227611	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	321183	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	241360	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	101062	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	108030	27.14 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.56%	
48) Toluene-d8	13.32	98	313931	24.75 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.00%	
62) 4-Bromofluorobenzene	16.95	95	95305	25.55 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.20%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	27363	1058.81 ug/L #	71
3) tert-Butanol (TBA)	6.81	59	45074	160.75 ug/L	98
5) Dichlorodifluoromethane	4.10	85	237391	28.42 ug/L	98
6) Chloromethane	4.36	50	219524	27.01 ug/L	97
7) Vinyl Chloride	4.65	62	187813	25.25 ug/L	99
8) 1,3-Butadiene	4.78	54	146744	36.48 ug/L	95
9) Bromomethane	5.18	94	123671	27.23 ug/L	99
10) Chloroethane	5.38	64	95496	25.89 ug/L	97
11) Trichlorofluoromethane	6.11	101	223350	33.97 ug/L	98
12) Acetone	6.25	43	16679m	17.41 ug/L	
13) Iodomethane	6.85	142	235452	30.64 ug/L #	87
14) 1,1-Dichloroethene	6.79	96	124382	27.18 ug/L	98
15) Methylene Chloride	6.98	84	105477	25.89 ug/L	98
16) Freon 113	7.06	101	139925	29.52 ug/L	98
17) Carbon disulfide	7.29	76	399468	26.84 ug/L #	95
18) trans-1,2-Dichloroethene	7.85	96	121239	22.84 ug/L	98
19) MTBE	7.99	73	188107	25.07 ug/L	98
20) 1,1-Dichloroethane	8.17	63	194470	23.60 ug/L	99
21) Vinyl Acetate	8.33	43	133018	22.77 ug/L	98
22) n-Hexane	8.68	86	28916	22.20 ug/L	81
23) 2-Butanone (MEK)	8.71	72	6582	20.08 ug/L #	24
24) Diisopropyl Ether (DIPE)	8.72	45	329827	23.71 ug/L	98
25) cis-1,2-Dichloroethene	8.90	96	115818	23.97 ug/L	99
26) Bromochloromethane	9.12	128	47261	24.65 ug/L	90
27) Chloroform	9.17	83	185281	25.70 ug/L	97
28) 2,2-Dichloropropane	9.26	77	150542	27.58 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	248774	24.77 ug/L	95
31) Tetrahydrofuran	9.59	72	5730	19.22 ug/L #	68
32) 1,2-Dichloroethane	10.00	62	98990	28.46 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	173430	28.72 ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	198187	24.48 ug/L	97
36) 1,1-Dichloropropene	10.37	75	134019	19.51 ug/L	97
37) Carbon Tetrachloride	10.60	117	153318	28.47 ug/L	98
38) Benzene	10.65	78	374042	22.82 ug/L	96
39) Dibromomethane	11.38	93	47995	24.81 ug/L	95
40) 1,2-Dichloropropane	11.43	63	85878	21.99 ug/L	94

(#) = qualifier out of range (m) = manual integration
09161212.D 081012.M Mon Sep 17 08:54:35 2012

LC091712

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161212.D Vial: 12
Acq On : 16 Sep 2012 2:19 pm Operator: EH
Sample : 12I0539-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

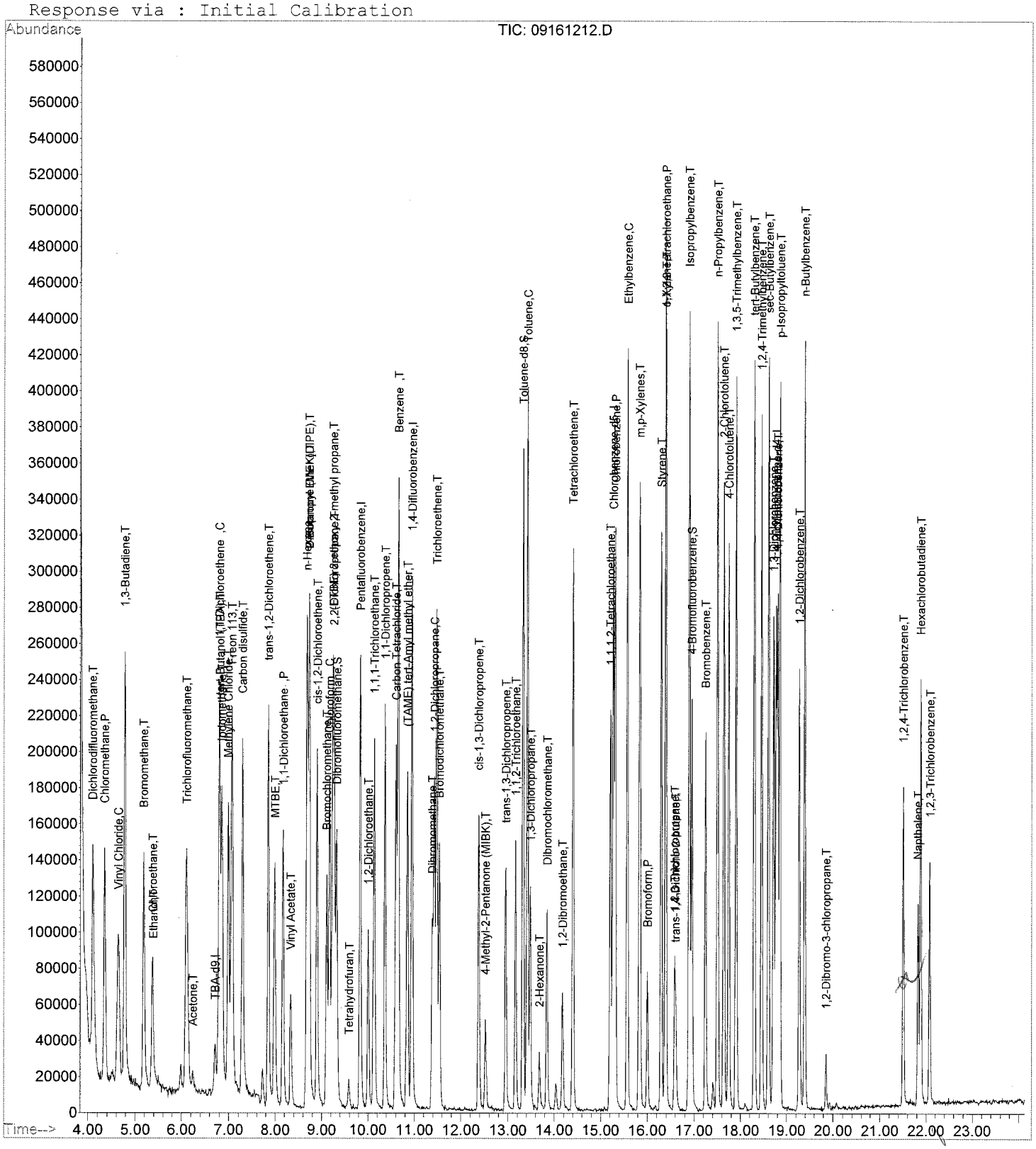
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	110141	23.97 ug/L	98
42)	Bromodichloromethane	11.54	83	118039	26.26 ug/L	99
44)	cis-1,3-Dichloropropene	12.38	75	125534	23.96 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	47541	20.21 ug/L	97
46)	trans-1,3-Dichloropropene	12.95	75	98605	24.74 ug/L	97
47)	1,1,2-Trichloroethane	13.16	97	57667	25.38 ug/L	96
49)	Toluene	13.41	92	226878	24.34 ug/L	96
51)	1,3-Dichloropropane	13.48	76	92370	21.55 ug/L	97
52)	2-Hexanone	13.68	43	31615	17.65 ug/L	97
53)	Dibromochloromethane	13.85	129	78690	25.32 ug/L	98
54)	1,2-Dibromoethane	14.18	107	60403	23.19 ug/L	96
55)	Tetrachloroethene	14.40	164	94574	22.24 ug/L	98
56)	1,1,1,2-Tetrachloroethane	15.20	131	86122	25.28 ug/L	96
57)	Chlorobenzene	15.31	112	228753	23.09 ug/L	99
58)	Ethylbenzene	15.58	91	403818	23.33 ug/L	99
59)	m,p-Xylenes	15.83	106	157081	23.79 ug/L	100
60)	Styrene	16.29	104	208504	23.58 ug/L	99
61)	o-Xylene	16.39	106	146686	24.04 ug/L	99
64)	Bromoform	16.00	173	45264	26.02 ug/L	98
65)	1,1,2,2-Tetrachloroethane	16.39	83	62259	22.94 ug/L	99
66)	1,2,3-Trichloropropane	16.58	110	17293	26.43 ug/L	91
67)	trans-1,4-Dichloro-2-buten	16.61	53	13669	20.70 ug/L	97
68)	Isopropylbenzene	16.89	105	395326	26.19 ug/L	100
69)	Bromobenzene	17.24	156	89323	24.29 ug/L	98
70)	n-Propylbenzene	17.50	91	462411	24.13 ug/L	99
71)	2-Chlorotoluene	17.63	91	251733	24.30 ug/L	100
72)	4-Chlorotoluene	17.74	91	246436	24.32 ug/L	98
73)	1,3,5-Trimethylbenzene	17.90	105	303457	25.78 ug/L	98
74)	tert-Butylbenzene	18.29	119	267838	25.47 ug/L	98
75)	1,2,4-Trimethylbenzene	18.45	105	273611	24.57 ug/L	98
76)	sec-Butylbenzene	18.61	105	415074	24.40 ug/L	98
77)	1,3-Dichlorobenzene	18.71	146	155178	23.18 ug/L	96
78)	1,4-Dichlorobenzene	18.80	146	152040	23.17 ug/L	98
79)	p-Isopropyltoluene	18.85	119	308141	24.17 ug/L	98
80)	1,2-Dichlorobenzene	19.27	146	131044	24.05 ug/L	97
81)	n-Butylbenzene	19.39	91	281337	23.01 ug/L	98
82)	1,2-Dibromo-3-chloropropan	19.86	75	7571	27.70 ug/L	91
83)	1,2,4-Trichlorobenzene	21.50	180	74662	25.55 ug/L	99
84)	Napthalene	21.81	128	119965	25.66 ug/L	100
85)	Hexachlorobutadiene	21.88	225	65115	32.94 ug/L	97
86)	1,2,3-Trichlorobenzene	22.08	180	62046	26.24 ug/L	97

(#) = qualifier out of range (m) = manual integration
09161212.D 081012.M Mon Sep 17 08:54:35 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161212.D Vial: 12
Acq On : 16 Sep 2012 2:19 pm Operator: EH
Sample : 12I0539-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

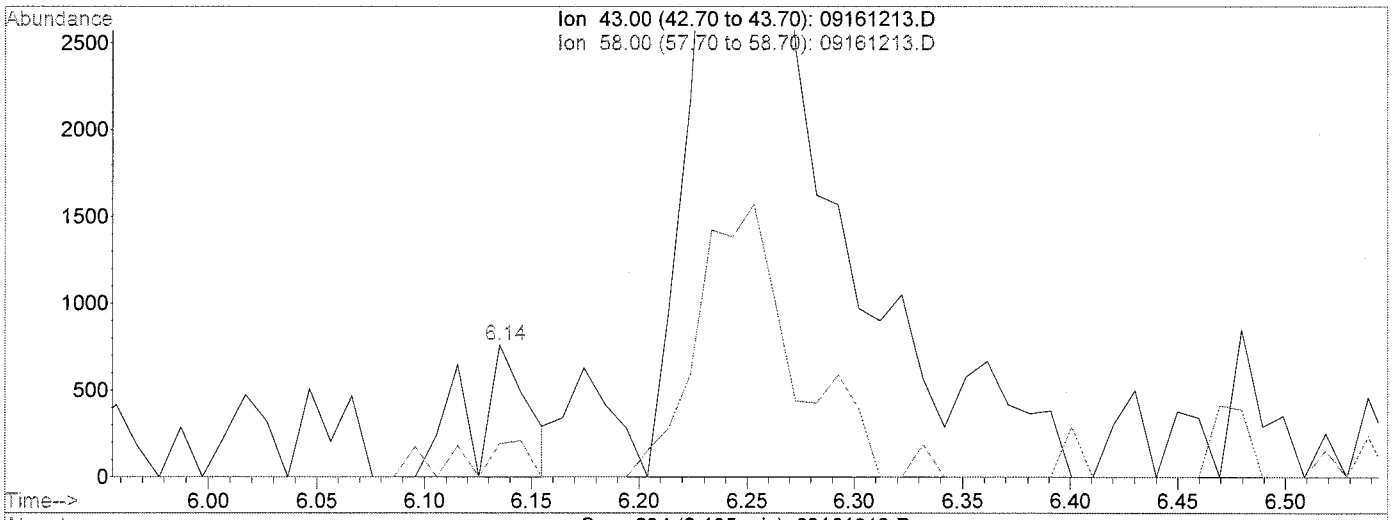
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

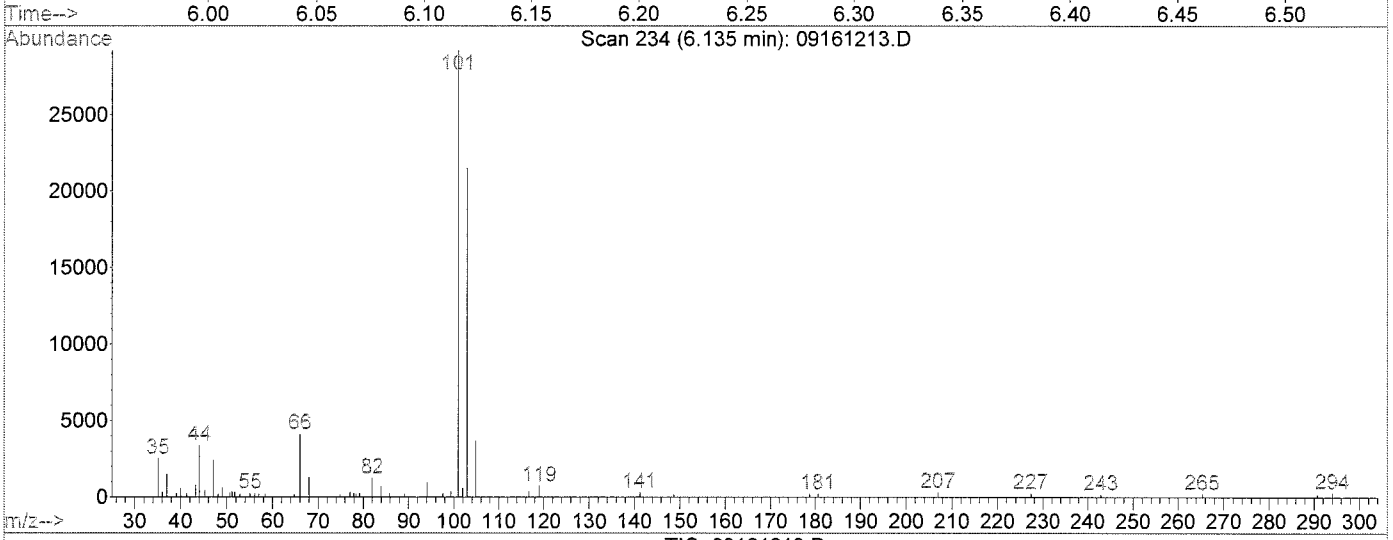


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161213.D Vial: 13
Acq On : 16 Sep 2012 2:52 pm Operator: EH
Sample : 12I0539-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161213.D

(12) Acetone (T)

6.14min 0.97ug/L

response 909

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	37.73
0.00	0.00	0.00
0.00	0.00	0.00

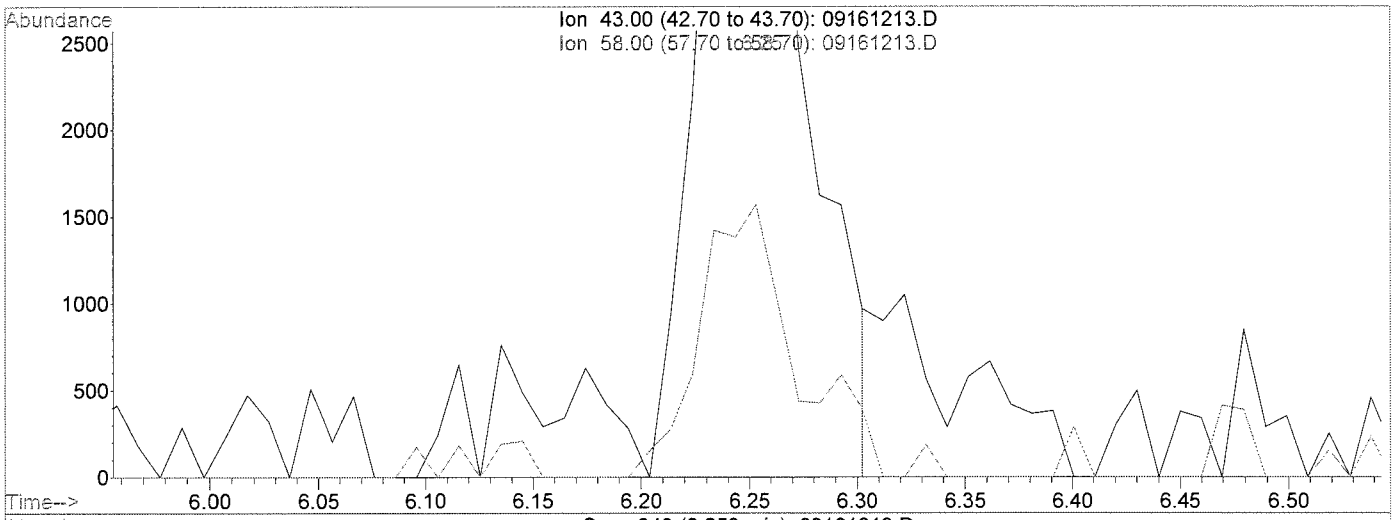
Before-WRT
1.0017P

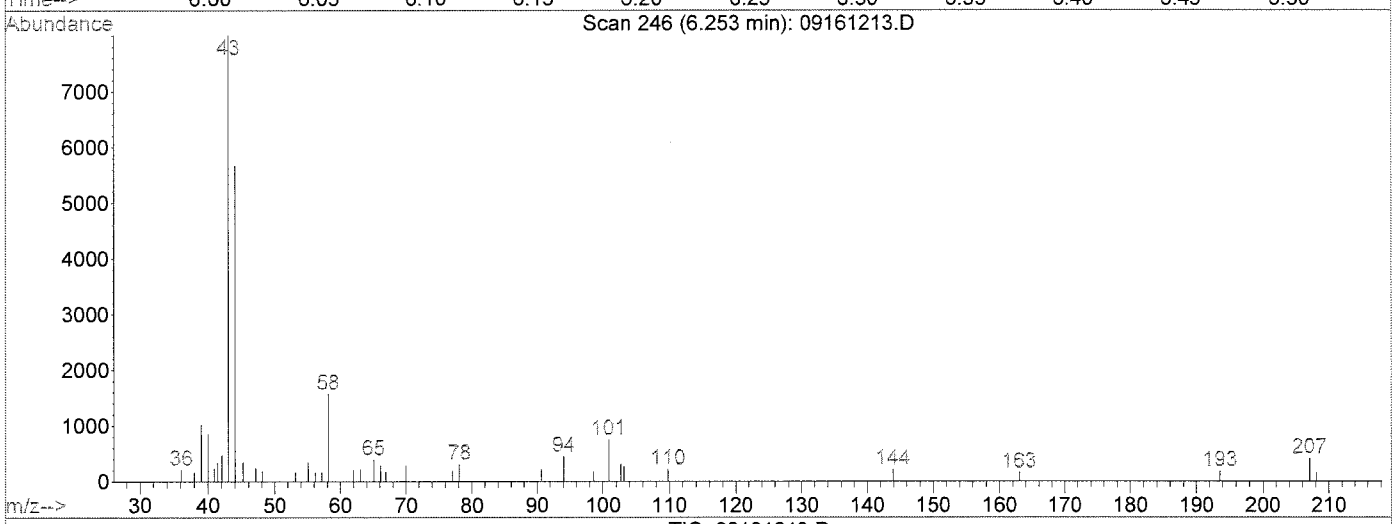
09161213.D 081012.M Mon Sep 17 08:54:49 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161213.D Vial: 13
Acq On : 16 Sep 2012 2:52 pm Operator: EH
Sample : 12I0539-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09161213.D

(12) Acetone (T)

6.25min 21.17ug/L m

response 19901

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	1.72#
0.00	0.00	0.00
0.00	0.00	0.00

After 09/17/12

09161213.D 081012.M Mon Sep 17 08:54:57 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161213.D Vial: 13
Acq On : 16 Sep 2012 2:52 pm Operator: EH
Sample : 12I0539-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.72	65	64315	200.00	ug/L	0.00
4) Pentafluorobenzene	9.83	168	223253	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	320456	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.27	117	244618	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	104522	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.32	113	111323	28.51	ug/L	0.00
Spiked Amount 25.000			Recovery	=	114.04%	
48) Toluene-d8	13.32	98	324795	25.66	ug/L	0.00
Spiked Amount 25.000			Recovery	=	102.64%	
62) 4-Bromofluorobenzene	16.95	95	98762	26.13	ug/L	0.00
Spiked Amount 25.000			Recovery	=	104.52%	
Target Compounds						Qvalue
2) Ethanol	5.40	45	27572	795.17	ug/L	78
3) tert-Butanol (TBA)	6.81	59	45610	121.23	ug/L	98
5) Dichlorodifluoromethane	4.10	85	236996	28.93	ug/L	97
6) Chloromethane	4.34	50	219875	27.58	ug/L	99
7) Vinyl Chloride	4.64	62	184746	25.32	ug/L	97
8) 1,3-Butadiene	4.78	54	149974	38.01	ug/L	99
9) Bromomethane	5.18	94	129531	29.07	ug/L	100
10) Chloroethane	5.38	64	90244	24.94	ug/L	94
11) Trichlorofluoromethane	6.11	101	226940	35.19	ug/L	99
12) Acetone	6.25	43	19901m	21.17	ug/L	
13) Iodomethane	6.85	142	242238	32.14	ug/L #	90
14) 1,1-Dichloroethene	6.79	96	122385	27.27	ug/L	99
15) Methylene Chloride	6.99	84	105864	26.49	ug/L	98
16) Freon 113	7.06	101	145687	31.34	ug/L	98
17) Carbon disulfide	7.29	76	396761	27.18	ug/L	96
18) trans-1,2-Dichloroethene	7.85	96	125172	24.05	ug/L	98
19) MTBE	7.99	73	210199	28.56	ug/L	97
20) 1,1-Dichloroethane	8.17	63	193313	23.92	ug/L	99
21) Vinyl Acetate	8.33	43	141006	24.61	ug/L	98
22) n-Hexane	8.68	86	27535	21.55	ug/L	87
23) 2-Butanone (MEK)	8.71	72	6580	20.46	ug/L #	1
24) Diisopropyl Ether (DIPE)	8.73	45	346995	25.43	ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	120783	25.49	ug/L	99
26) Bromochloromethane	9.11	128	51841	27.56	ug/L	85
27) Chloroform	9.16	83	185053	26.17	ug/L	96
28) 2,2-Dichloropropane	9.27	77	146231	27.32	ug/L	96
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	261908	26.58	ug/L	98
31) Tetrahydrofuran	9.59	72	5867	20.06	ug/L	99
32) 1,2-Dichloroethane	10.00	62	104364	30.60	ug/L	95
33) 1,1,1-Trichloroethane	10.13	97	173843	29.35	ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	212805	26.80	ug/L	98
36) 1,1-Dichloropropene	10.36	75	137854	20.12	ug/L	98
37) Carbon Tetrachloride	10.60	117	153156	28.51	ug/L	98
38) Benzene	10.65	78	383972	23.48	ug/L	98
39) Dibromomethane	11.38	93	49882	25.84	ug/L	99
40) 1,2-Dichloropropane	11.43	63	87246	22.39	ug/L #	91

(#) = qualifier out of range (m) = manual integration
09161213.D 081012.M Mon Sep 17 08:55:04 2012

LC 0917P

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161213.D Vial: 13
Acq On : 16 Sep 2012 2:52 pm Operator: EH
Sample : 12I0539-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

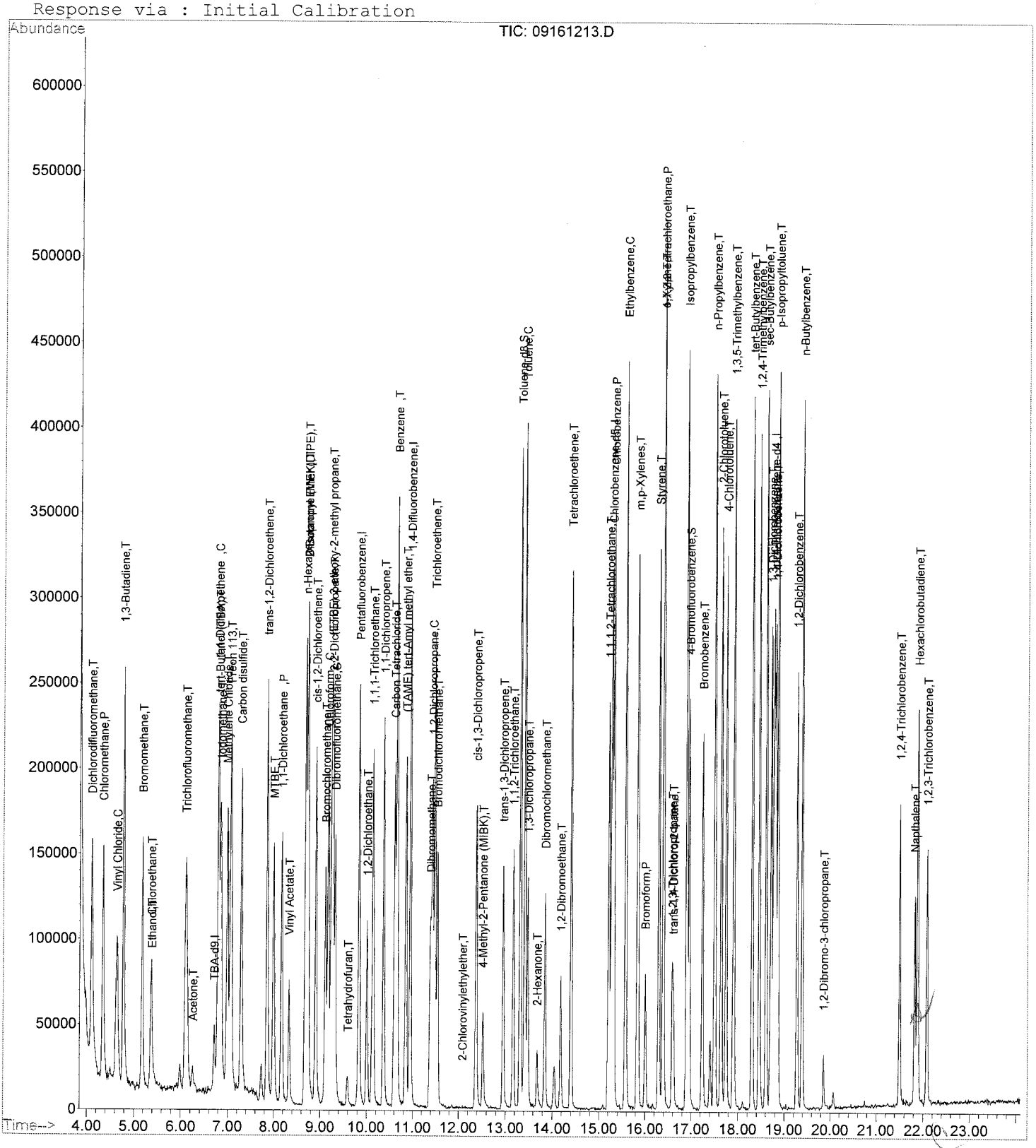
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	111911	24.41 ug/L	98
42) Bromodichloromethane	11.55	83	122993	27.43 ug/L	97
43) 2-Chlorovinylethylether	12.09	63	159	0.11 ug/L #	36
44) cis-1,3-Dichloropropene	12.38	75	130092	24.88 ug/L	95
45) 4-Methyl-2-Pentanone (MIBK	12.52	43	53935	22.98 ug/L	91
46) trans-1,3-Dichloropropene	12.94	75	106387	26.76 ug/L	98
47) 1,1,2-Trichloroethane	13.16	97	60811	26.82 ug/L	99
49) Toluene	13.41	92	228716	24.59 ug/L	98
51) 1,3-Dichloropropane	13.48	76	99754	22.97 ug/L	100
52) 2-Hexanone	13.69	43	35109	19.34 ug/L	99
53) Dibromochloromethane	13.85	129	85474	27.14 ug/L	100
54) 1,2-Dibromoethane	14.18	107	67143	25.44 ug/L	100
55) Tetrachloroethene	14.40	164	93888	21.79 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.20	131	89069	25.79 ug/L	96
57) Chlorobenzene	15.31	112	236438	23.55 ug/L	98
58) Ethylbenzene	15.58	91	416124	23.72 ug/L	99
59) m,p-Xylenes	15.84	106	153681	22.96 ug/L	99
60) Styrene	16.29	104	214306	23.91 ug/L	99
61) o-Xylene	16.38	106	153633	24.84 ug/L	99
64) Bromoform	16.00	173	52083	28.95 ug/L	88
65) 1,1,2,2-Tetrachloroethane	16.38	83	64984	23.15 ug/L	98
66) 1,2,3-Trichloropropane	16.58	110	18628	27.53 ug/L	94
67) trans-1,4-Dichloro-2-buten	16.61	53	13869	20.33 ug/L	92
68) Isopropylbenzene	16.89	105	402556	25.79 ug/L	97
69) Bromobenzene	17.24	156	90002	23.66 ug/L	94
70) n-Propylbenzene	17.50	91	453536	22.89 ug/L	98
71) 2-Chlorotoluene	17.63	91	256889	23.98 ug/L	99
72) 4-Chlorotoluene	17.74	91	247750	23.64 ug/L	98
73) 1,3,5-Trimethylbenzene	17.90	105	296302	24.34 ug/L	99
74) tert-Butylbenzene	18.29	119	274022	25.20 ug/L	98
75) 1,2,4-Trimethylbenzene	18.45	105	284684	24.72 ug/L	100
76) sec-Butylbenzene	18.61	105	413269	23.49 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	159300	23.01 ug/L	96
78) 1,4-Dichlorobenzene	18.80	146	149225	21.99 ug/L	97
79) p-Isopropyltoluene	18.85	119	311557	23.63 ug/L	98
80) 1,2-Dichlorobenzene	19.27	146	137123	24.33 ug/L	98
81) n-Butylbenzene	19.38	91	276320	21.86 ug/L	98
82) 1,2-Dibromo-3-chloropropan	19.86	75	8664	30.78 ug/L	99
83) 1,2,4-Trichlorobenzene	21.50	180	72928	24.13 ug/L	98
84) Napthalene	21.81	128	128082	26.49 ug/L	100
85) Hexachlorobutadiene	21.88	225	64140	31.24 ug/L	99
86) 1,2,3-Trichlorobenzene	22.08	180	67439	27.65 ug/L	96

(#) = qualifier out of range (m) = manual integration
09161213.D 081012.M Mon Sep 17 08:55:04 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091612\09161213.D Vial: 13
Acq On : 16 Sep 2012 2:52 pm Operator: EH
Sample : 12I0539-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 8:54 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Injection Log

Directory: C:\HPCHEM\1\GCMS4\DATA\092012

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09201201.D	1.	TUNE		20 Sep 2012 05:06
2	2	09201202.D	1.	25 PPB CCV		20 Sep 2012 05:25
3	3	09201203.D	1.	12I0719-BS1		20 Sep 2012 05:57
4	4	09201204.D	1.	12I0719-BSD1		20 Sep 2012 06:30
5	5	09201205.D	1.	12I0719-BLK1		20 Sep 2012 07:02
6	6	09201206.D	1.	PVI1264-03RE1	SOURCE	20 Sep 2012 07:34
7	7	09201207.D	1.	PVI1264-02RE1	10X	20 Sep 2012 08:07
8	8	09201208.D	1.	PVI0818-01		20 Sep 2012 08:38
9	9	09201209.D	1.	PVI1067-04	TB	20 Sep 2012 09:11
10	10	09201210.D	1.	PVI1067-01		20 Sep 2012 09:43
11	11	09201211.D	1.	PVI1067-03		20 Sep 2012 10:16
12	12	09201212.D	1.	PVI1067-02	10X	20 Sep 2012 10:48
13	13	09201213.D	1.	12I0719-MS1		20 Sep 2012 11:20
14	14	09201214.D	1.	12I0719-MSD1		20 Sep 2012 11:53
15	15	09201215.D	1.	PVI1078-12	TB	20 Sep 2012 12:25
16	16	09201216.D	1.	PVI1717-10		20 Sep 2012 12:57
17	17	09201217.D	1.	PVI1078-08		20 Sep 2012 13:29
18	18	09201218.D	1.	PVI1078-09		20 Sep 2012 14:01
19	19	09201219.D	1.	PVI1078-10		20 Sep 2012 14:34
20	20	09201220.D	1.	PVI1078-11		20 Sep 2012 15:06
21	21	09201221.D	1.	PVI1201-01	100X	20 Sep 2012 15:38
22	22	09201222.D	1.	PVI1203-01	100X	20 Sep 2012 16:11
23	1	09201223.D	1.	TUNE		20 Sep 2012 16:37
24	2	09201224.D	1.	25 PPB CCV		20 Sep 2012 17:01
25	3	09201225.D	1.	12I0754-BLK1		20 Sep 2012 17:35
26	4	09201226.D	1.	12I0754-BS1		20 Sep 2012 18:07
27	5	09201227.D	1.	12I0754-BSD1		20 Sep 2012 18:39
28	6	09201228.D	1.	12I0754-MS1		20 Sep 2012 19:12
29	7	09201229.D	1.	12I0754-MSD1		20 Sep 2012 19:44
30	8	09201230.D	1.	PVI1077-01		20 Sep 2012 20:16
31	9	09201231.D	1.	PVI1077-02		20 Sep 2012 20:49
32	10	09201232.D	1.	PVI1077-03		20 Sep 2012 21:21
33	11	09201233.D	1.	PVI1003-01		20 Sep 2012 21:53
34	12	09201234.D	1.	PVI1003-02		20 Sep 2012 22:26
35	13	09201235.D	1.	PVI1003-03		20 Sep 2012 22:58
36	14	09201236.D	1.	PVI0898-02	5X	20 Sep 2012 23:31
37	15	09201237.D	1.	PVI0898-03		21 Sep 2012 00:03
38	16	09201238.D	1.	PVI1026-05		21 Sep 2012 00:35
39	17	09201239.D	1.	PVI1026-06		21 Sep 2012 01:07
40	18	09201240.D	1.	PVI1026-11		21 Sep 2012 01:40
41	19	09201241.D	1.	PVI1026-12		21 Sep 2012 02:12
42	20	09201242.D	1.	PVI1026-13@TB		21 Sep 2012 02:45
43	21	09201243.D	1.	PVI1031-04		21 Sep 2012 03:17
44	22	09201244.D	1.	PVI1031-05		21 Sep 2012 03:49
45	23	09201245.D	1.	PVI0914-01	10X	21 Sep 2012 04:21

9/24/12 *

MM 9/21/12

TestAmerica
Phoenix

GC/MS 4 DAILY LOG SUMMARY

*mm 9/20/12

DATE: 9/20/12
ANALYST: mm

QC BATCH # (s) : 12I0419/0753/0481 12I0719/0754/0522
SEQUENCE FILE: C:\GCMS4\DATA\ 092012.S

CALIBRATION METHOD(S): 070912.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	~~091207~~ 092012 *01	Tune	2µL	NA	8260	NA	
2	09201202	25 ppb CCV	✓			H_2O	12DB3PA
3	03	1210719-BS1	✓				
4	04	-BSD1	✓				
5	05	-BIK1	✓				
6	06	PV11264-03BLE7	✓	✓			Source B
7	07	-02BLE7	1mL→10mL	✓			10X BTmpX
8	08	818-01D	✓	7			
9	09	1067-04A	✓	✓			TB
10	10	-01A	✓	✓			
11	11	-03A	✓	✓			
12	12	-02A	1mL→10mL	✓			10X Odor
13	13	1210719-MS1	✓	✓			
14	14	-MSD1	✓	✓			
15	15	PV11078-12A	✓	✓			TB
16	16	0717-10A	✓	✓			
17	17	1078-08A	✓	✓			
18	18	-09A	✓	✓			
19	19	-10A	✓	✓			
20	20	-11A	✓	✓			
21	21	1201-01A	100µL→10mL	7			100x wm pH 4
22	22	1203-01A	100µL→10mL	7	✓	✓	100x ✓ pH 4
1	23	tune	2ul	NA	8260	NA	
2	24	25ppb CCV	✓			H_2O	
3	25	12I0754-BIK1	200 ml			soil	
4	26	-BS1	200 ml				
5	27	-BSD1	200 ml				
6	28	-MS1	200 ml				
7	29	-MSD1	200 ml				
8	30	PV11077-01	200 ml				12I0754

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05577/5606
CCV/CALIBRATION STD: PV05635/5431
Internal Std: 5773
IS/Surrogate/BFB: 5774/5230

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL CAL Std + 5µL IS→10mL/Bc
20 ppb CCV PREPARATION: NA
ARCHON REVIEWED By/Date: mm 9/21/12
SEQUENCE REVIEWED By/Date:
FINAL REVIEWER / Date: 9/24/12

PX-VOA-012F-10/11

TestAmerica
Phoenix

GC/MS 4 DAILY LOG SUMMARY

DATE: 092012

QC BATCH # (s) : 12I0488/0484 12I0719/0754/0522/0419

ANALYST: EH

SEQUENCE FILE: C:\GCMS4\DATA\092012.S

CALIBRATION METHOD(S): 070912.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 200 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
9	09201231	PVI1077-02	✓	NA	8260	Soil	12I0754
10	32	↓ -03	✓				↓
11	33	1003-01	✓				12I0522
12	34	-02	✓				
13	35	↓ -03	✓				
14	36	0898-02	40 ul → 10 mL H_2O				5X
15	37	↓ -03	✓				↓
16	38	1026-05	✓				12I0419
17	39	-06	✓				
18	40	-11	✓				↓
19	41	-12	✓				12I0488
20	42	↓ -13	✓				TB
21	43	1031-04	✓				
22	44	↓ -05	✓				↓
23	↓ 45	↓ 0914-01	20 ul → 10 mL H_2O	↓	↓	↓	12I0484 10X 124MB, X, 04P

ek 09/20/12

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD:

Internal Std:

IS/Surrogate/BFB: 3B-19-80

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date:

SEQUENCE REVIEWED By/Date: 19-80

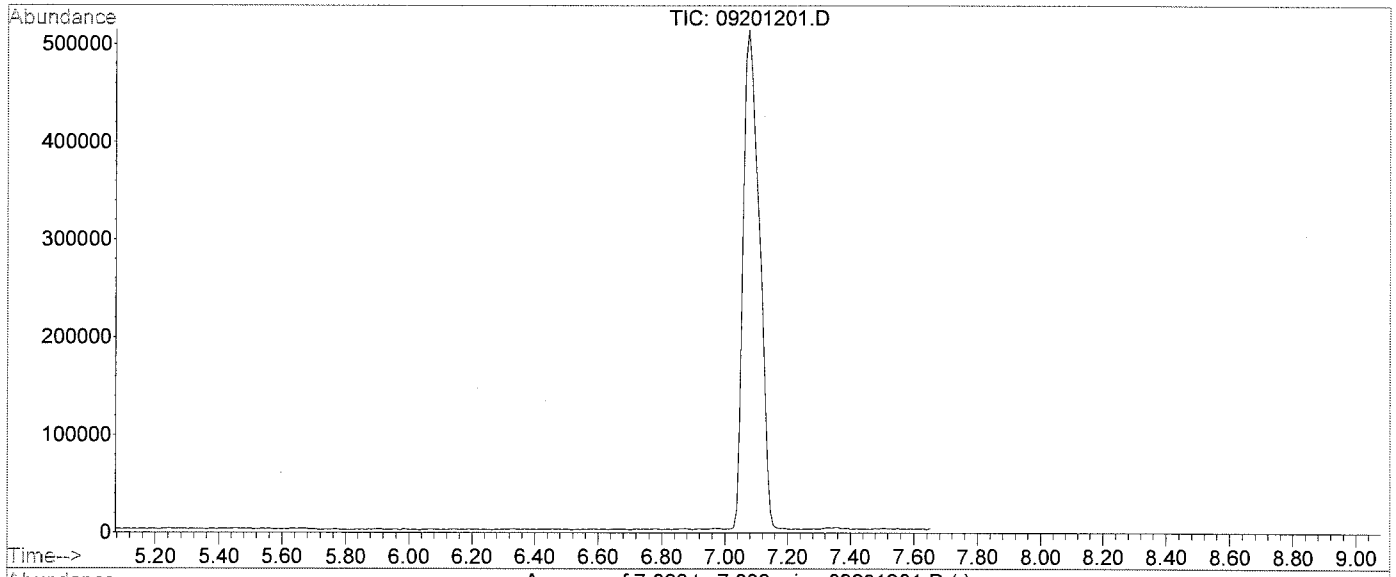
FINAL REVIEWER / Date: X 9/24/12

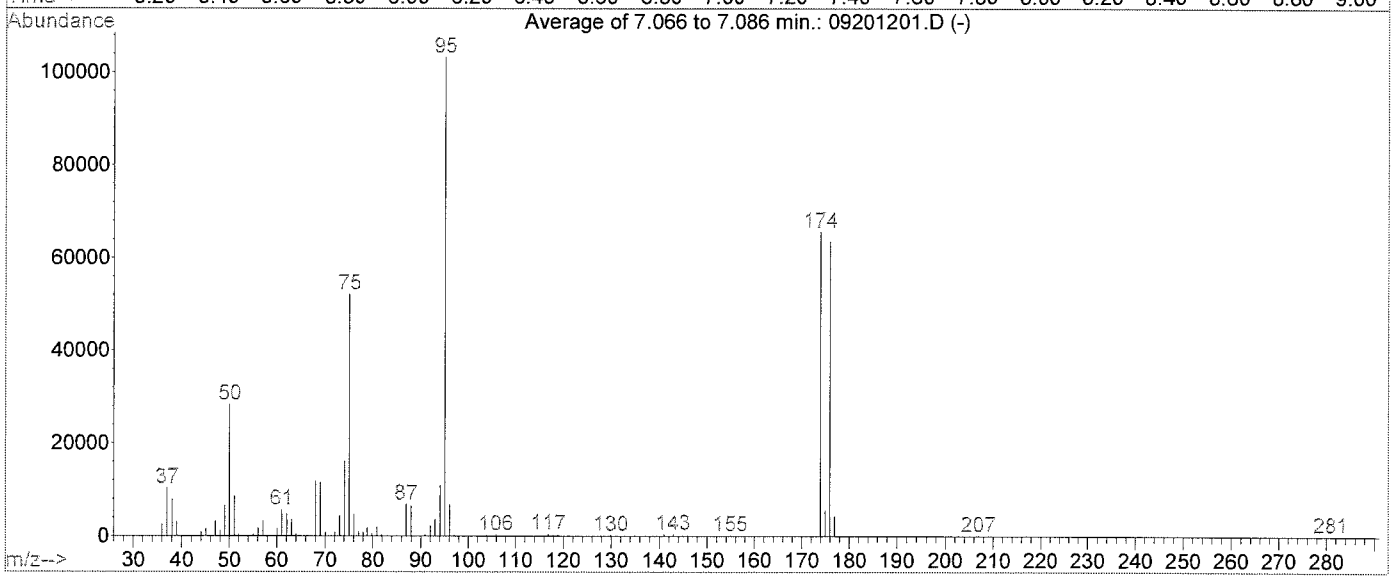
PX-VOA-012F-10/11

BFB

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201201.D Vial: 1
Acq On : 20 Sep 2012 5:06 am Operator: MNM
Sample : TUNE Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration

9/24/12





Spectrum Information: Average of 7.066 to 7.086 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.4	28261	PASS
75	95	30	60	50.4	52037	PASS
95	95	100	100	100.0	103184	PASS
96	95	5	9	6.5	6666	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.5	65536	PASS
175	174	5	9	8.3	5461	PASS
176	174	95	101	96.8	63445	PASS
177	176	5	9	6.6	4181	PASS

MM
9/21/12

09201201.D 070912.M Thu Sep 20 15:14:00 2012

8260 CCV/ICV CUSTOM REPORT

Data File Name	09201202.D
Data File Path	C:\HPCHEM\1\GCMS4\DATA\092012\
Operator	MNM
Date Acquired	9/20/2012 5:25
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GCMS4

9/24/12 e

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	59143	55705	27852.5	111410	TRUE
4)	Pentafluorobenzene	103685	132566	66283	265132	TRUE
35)	1,4-Difluorobenzene	182306	228841	114420.5	457682	TRUE
50)	Chlorobenzene-d5	140883	167611	83805.5	335222	TRUE
63)	1,4-Dichlorobenzene-d4	49390	61145	30572.5	122290	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	312.87	250	125%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	114.78	125	92%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	19.10	25	76%	60%	140%	TRUE	
6)	Chloromethane	24.83	25	99%	48%	144%	TRUE	
7)	Vinyl Chloride	26.39	25	106%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	23.05	25	92%	50%	141%	TRUE	
9)	Bromomethane	24.92	25	100%	40%	144%	TRUE	
10)	Chloroethane	24.76	25	99%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.18	25	101%	68%	136%	TRUE	
12)	Acetone	26.45	25	106%	12%	150%	TRUE	
13)	Iodomethane	27.44	25	110%	40%	160%	TRUE	
14)	1,1-Dichloroethene	26.36	25	105%	80%	120%	TRUE	CCC
15)	Methylene Chloride	28.28	25	113%	68%	128%	TRUE	
16)	Freon 113	26.49	25	106%	76%	124%	TRUE	
17)	Carbon disulfide	25.93	25	104%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	27.99	25	112%	76%	120%	TRUE	
19)	MTBE	26.33	25	105%	64%	140%	TRUE	
20)	1,1-Dichloroethane	27.84	25	111%	72%	124%	TRUE	
21)	Vinyl Acetate	27.92	25	112%	48%	150%	TRUE	
22)	n-Hexane	24.52	25	98%	56%	150%	TRUE	
23)	2-Butanone (MEK)	30.67	25	123%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	26.88	25	108%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	28.58	25	114%	72%	128%	TRUE	
26)	Bromochloromethane	27.58	25	110%	72%	132%	TRUE	
27)	Chloroform	28.34	25	113%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	31.62	25	126%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl propa	26.78	25	107%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**26.56**	**25**	106%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	28.18	25	113%	64%	139%	TRUE	
32)	1,2-Dichloroethane	28.68	25	115%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	29.42	25	118%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	26.73	25	107%	68%	140%	TRUE	
36)	1,1-Dichloropropene	26.91	25	108%	76%	128%	TRUE	

MM 9/24/12

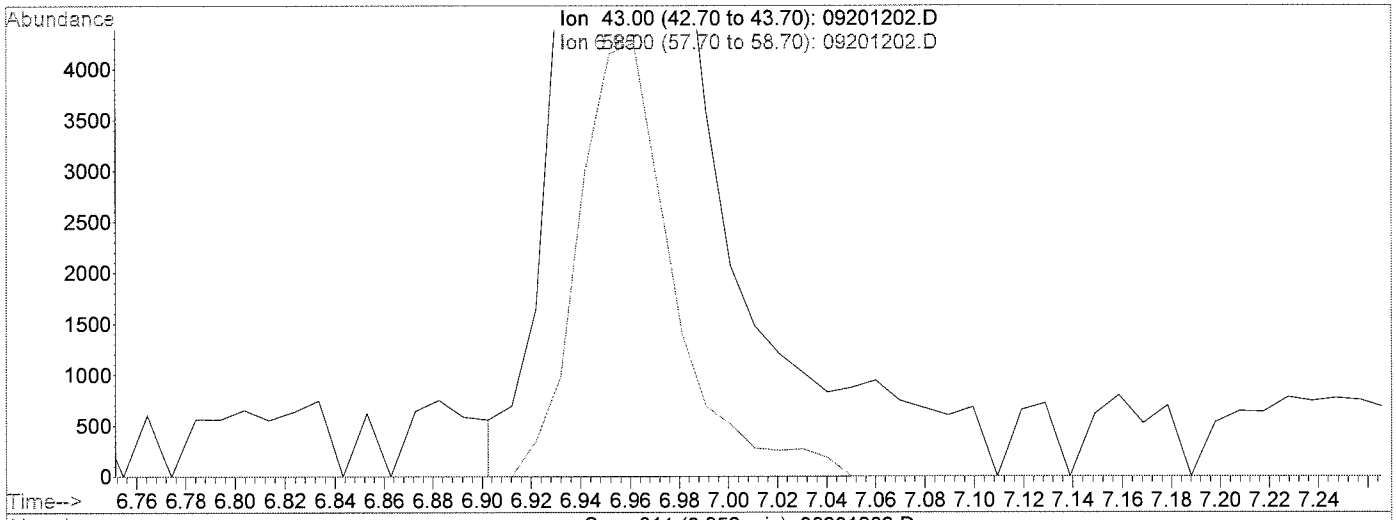
37) Carbon Tetrachloride	27.01	25	108%	72%	136%	TRUE	
38) Benzene	27.19	25	109%	76%	120%	TRUE	
39) Dibromomethane	27.68	25	111%	72%	132%	TRUE	
40) 1,2-Dichloropropane	27.54	25	110%	80%	120%	TRUE	CCC
41) Trichloroethene	28.78	25	115%	80%	120%	TRUE	
42) Bromodichloromethane	27.61	25	110%	76%	128%	TRUE	
43) 2-Chlorovinylethylether	19.65	25	79%	10%	150%	TRUE	
44) cis-1,3-Dichloropropene	27.42	25	110%	76%	136%	TRUE	
45) 4-Methyl-2-Pentanone (MIBK)	28.49	25	114%	60%	144%	TRUE	
46) trans-1,3-Dichloropropene	28.00	25	112%	68%	140%	TRUE	
47) 1,1,2-Trichloroethane	28.84	25	115%	72%	132%	TRUE	
48) **Toluene-d8**	**27.23**	**25**	109%	80%	120%	**TRUE**	
49) Toluene	27.63	25	111%	80%	120%	TRUE	CCC
51) 1,3-Dichloropropane	27.77	25	111%	80%	124%	TRUE	
52) 2-Hexanone	29.85	25	119%	52%	150%	TRUE	
53) Dibromochloromethane	25.91	25	104%	80%	128%	TRUE	
54) 1,2-Dibromoethane	27.93	25	112%	80%	128%	TRUE	
55) Tetrachloroethene	25.07	25	100%	76%	128%	TRUE	
56) 1,1,1,2-Tetrachloroethane	27.06	25	108%	76%	124%	TRUE	
57) Chlorobenzene	26.38	25	106%	80%	120%	TRUE	
58) Ethylbenzene	25.97	25	104%	80%	120%	TRUE	CCC
59) m,p-Xylenes	26.18	25	105%	80%	120%	TRUE	
60) Styrene	27.69	25	111%	84%	124%	TRUE	
61) o-Xylene	26.48	25	106%	72%	128%	TRUE	
62) **4-Bromofluorobenzene**	**25.08**	**25**	100%	80%	120%	**TRUE**	
64) Bromoform	26.20	25	105%	68%	132%	TRUE	
65) 1,1,2,2-Tetrachloroethane	29.73	25	119%	68%	132%	TRUE	
66) 1,2,3-Trichloropropane	29.27	25	117%	76%	128%	TRUE	
67) trans-1,4-Dichloro-2-butene	26.48	25	106%	48%	138%	TRUE	
68) Isopropylbenzene	26.71	25	107%	76%	132%	TRUE	
69) Bromobenzene	26.63	25	107%	76%	128%	TRUE	
70) n-Propylbenzene	26.76	25	107%	76%	132%	TRUE	
71) 2-Chlorotoluene	26.87	25	107%	80%	124%	TRUE	
72) 4-Chlorotoluene	26.87	25	107%	80%	124%	TRUE	
73) 1,3,5-Trimethylbenzene	27.37	25	109%	80%	128%	TRUE	
74) tert-Butylbenzene	26.70	25	107%	76%	132%	TRUE	
75) 1,2,4-Trimethylbenzene	27.62	25	110%	80%	128%	TRUE	
76) sec-Butylbenzene	27.16	25	109%	80%	128%	TRUE	
77) 1,3-Dichlorobenzene	26.87	25	107%	80%	124%	TRUE	
78) 1,4-Dichlorobenzene	26.81	25	107%	76%	120%	TRUE	
79) p-Isopropyltoluene	26.37	25	105%	80%	128%	TRUE	
80) 1,2-Dichlorobenzene	28.57	25	114%	80%	124%	TRUE	
81) n-Butylbenzene	26.77	25	107%	76%	132%	TRUE	
82) 1,2-Dibromo-3-chloropropane	34.69	25	139%	64%	128%	FALSE	
83) 1,2,4-Trichlorobenzene	29.18	25	117%	76%	128%	TRUE	
84) Napthalene	30.06	25	120%	68%	136%	TRUE	
85) Hexachlorobutadiene	30.24	25	121%	76%	132%	TRUE	
86) 1,2,3-Trichlorobenzene	29.92	25	120%	72%	128%	TRUE	

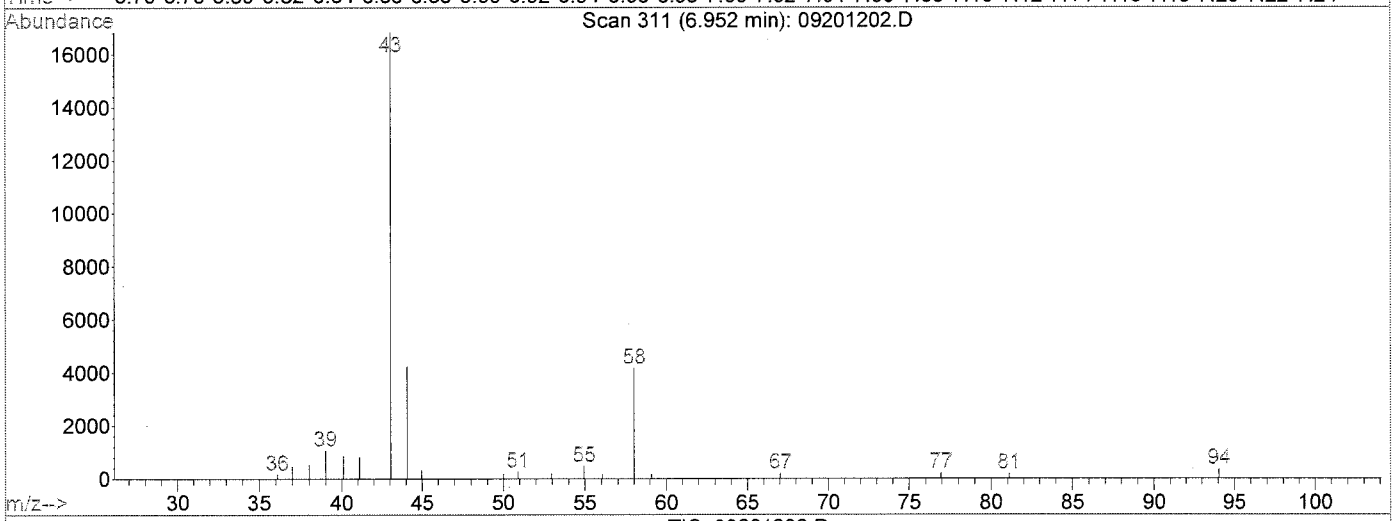
MM

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201202.D

(12) Acetone (T)

6.95min 32.36ug/L

response 49053

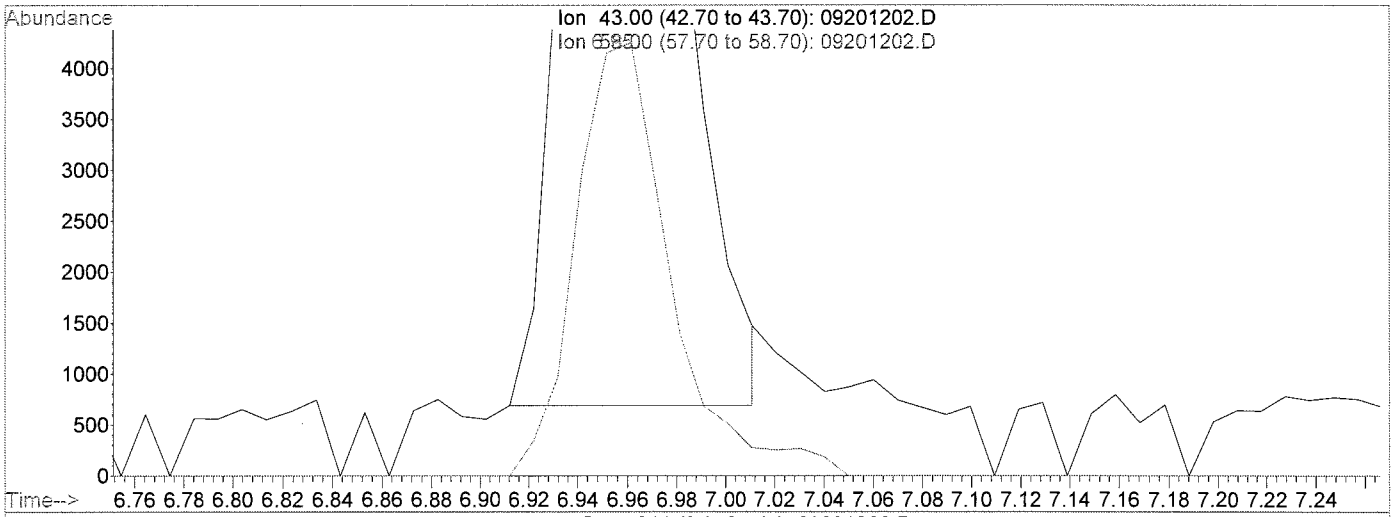
Ion	Exp%	Act%
43.00	100	100
58.00	32.10	23.08#
0.00	0.00	0.00
0.00	0.00	0.00

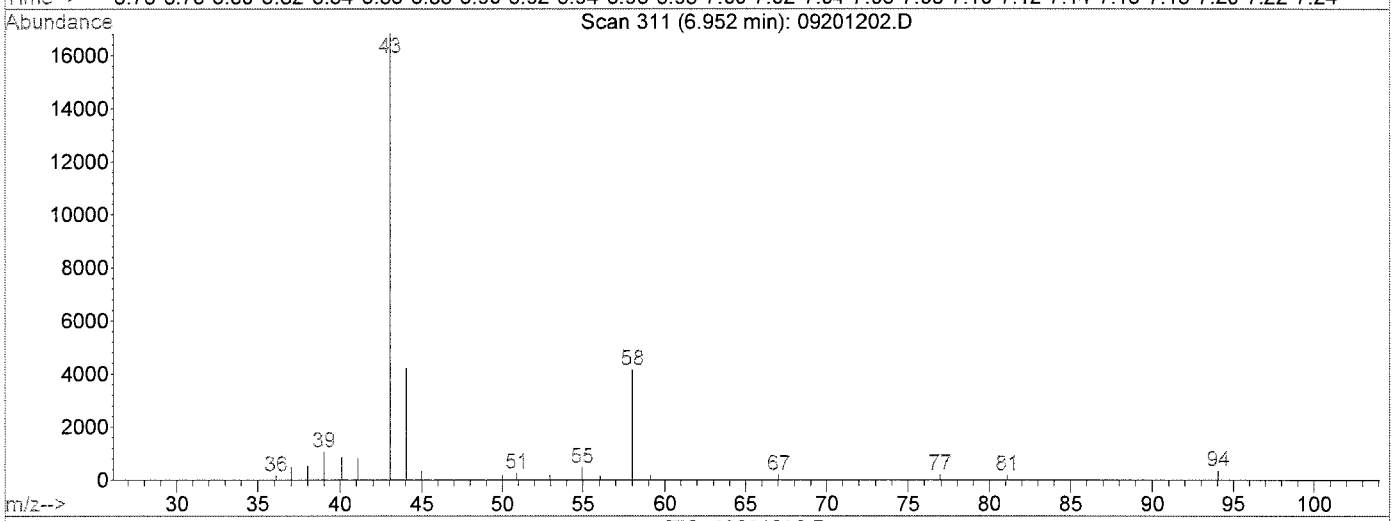
B 9/24/12
BL
MM 9/21/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201202.D

✓ 9/24/12

(12) Acetone (T)

6.95min 26.45ug/L m

response 40088

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	28.24
0.00	0.00	0.00
0.00	0.00	0.00

A MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	59143	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.67	168	103685	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	11.80	114	182306	25.00 ug/L	-0.02
50) Chlorobenzene-d5	16.19	117	140883	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.63	152	49390	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	10.15	113	46670	26.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 106.24%	
48) Toluene-d8	14.21	98	219935	27.23 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.92%	
62) 4-Bromofluorobenzene	17.87	95	63187	25.08 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 100.32%	
Target Compounds					Qvalue
2) Ethanol	5.99	45	14754	312.87 ug/L #	58
3) tert-Butanol (TBA)	7.55	59	42975	114.78 ug/L #	92
5) Dichlorodifluoromethane	4.57	85	64901	19.10 ug/L	100
6) Chloromethane	4.85	50	157971	24.83 ug/L	97
7) Vinyl Chloride	5.17	62	143203	26.39 ug/L	100
8) 1,3-Butadiene	5.34	54	94497	23.05 ug/L	98
9) Bromomethane	5.77	94	55214	24.92 ug/L	100
10) Chloroethane	5.99	64	80650	24.76 ug/L	98
11) Trichlorofluoromethane	6.80	101	61056	25.18 ug/L	98
12) Acetone	6.95	43	40088m	26.45 ug/L	
13) Iodomethane	7.61	142	75955	27.44 ug/L	99
14) 1,1-Dichloroethene	7.54	96	68731	26.36 ug/L	99
15) Methylene Chloride	7.74	84	72746	28.28 ug/L	99
16) Freon 113	7.82	101	64222	26.49 ug/L	98
17) Carbon disulfide	8.08	76	271142	25.93 ug/L	100
18) trans-1,2-Dichloroethene	8.65	96	77485	27.99 ug/L	99
19) MTBE	8.78	73	156530	26.33 ug/L	98
20) 1,1-Dichloroethane	8.97	63	173558	27.84 ug/L	100
21) Vinyl Acetate	9.13	43	184298	27.92 ug/L	99
22) n-Hexane	9.48	86	24727	24.52 ug/L	88
23) 2-Butanone (MEK)	9.53	72	9979	30.67 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.53	45	376064	26.88 ug/L #	51
25) cis-1,2-Dichloroethene	9.72	96	74803	28.58 ug/L	99
26) Bromochloromethane	9.94	128	23953	27.58 ug/L #	73
27) Chloroform	10.00	83	113936	28.34 ug/L	99
28) 2,2-Dichloropropane	10.11	77	98779	31.62 ug/L	95
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	242223	26.78 ug/L	94
31) Tetrahydrofuran	10.42	72	7597	28.18 ug/L	92
32) 1,2-Dichloroethane	10.85	62	72344	28.68 ug/L	98
33) 1,1,1-Trichloroethane	10.99	97	79936	29.42 ug/L	99
34) (TAME) tert-Amyl methyl et	11.70	73	180850	26.73 ug/L	98
36) 1,1-Dichloropropene	11.22	75	126789	26.91 ug/L	98
37) Carbon Tetrachloride	11.47	117	57913	27.01 ug/L	100
38) Benzene	11.52	78	333739	27.19 ug/L	100
39) Dibromomethane	12.25	93	29625	27.68 ug/L	96
40) 1,2-Dichloropropane	12.30	63	90247	27.54 ug/L	98

(#) = qualifier out of range (m) = manual integration

MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.35	95	70178	28.78 ug/L	98
42)	Bromodichloromethane	12.41	83	76112	27.61 ug/L	98
43)	2-Chlorovinylethylether	12.94	63	24798	19.65 ug/L	99
44)	cis-1,3-Dichloropropene	13.26	75	113700	27.42 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	13.40	43	86868	28.49 ug/L	99
46)	trans-1,3-Dichloropropene	13.82	75	87390	28.00 ug/L	98
47)	1,1,2-Trichloroethane	14.05	97	41798	28.84 ug/L	97
49)	Toluene	14.31	92	178318	27.63 ug/L	99
51)	1,3-Dichloropropane	14.37	76	94673	27.77 ug/L	100
52)	2-Hexanone	14.56	43	70578	29.85 ug/L	99
53)	Dibromochloromethane	14.75	129	37677	25.91 ug/L	100
54)	1,2-Dibromoethane	15.09	107	39097	27.93 ug/L	98
55)	Tetrachloroethene	15.31	164	44540	25.07 ug/L	98
56)	1,1,1,2-Tetrachloroethane	16.12	131	42688	27.06 ug/L	98
57)	Chlorobenzene	16.23	112	149366	26.38 ug/L	97
58)	Ethylbenzene	16.48	91	312127	25.97 ug/L	99
59)	m,p-Xylenes	16.75	106	111495	26.18 ug/L	100
60)	Styrene	17.21	104	164599	27.69 ug/L	99
61)	o-Xylene	17.31	106	100510	26.48 ug/L	99
64)	Bromoform	16.92	173	19821	26.20 ug/L	97
65)	1,1,2,2-Tetrachloroethane	17.29	83	61050	29.73 ug/L	97
66)	1,2,3-Trichloropropane	17.50	110	11951	29.27 ug/L	93
67)	trans-1,4-Dichloro-2-buten	17.52	53	19485	26.48 ug/L	94
68)	Isopropylbenzene	17.80	105	246285	26.71 ug/L	98
69)	Bromobenzene	18.18	156	44407	26.63 ug/L	89
70)	n-Propylbenzene	18.42	91	348932	26.76 ug/L	99
71)	2-Chlorotoluene	18.57	91	185896	26.87 ug/L	96
72)	4-Chlorotoluene	18.67	91	178299	26.87 ug/L	99
73)	1,3,5-Trimethylbenzene	18.82	105	193245	27.37 ug/L	98
74)	tert-Butylbenzene	19.20	119	161382	26.70 ug/L	98
75)	1,2,4-Trimethylbenzene	19.34	105	186710	27.62 ug/L	99
76)	sec-Butylbenzene	19.48	105	282962	27.16 ug/L	99
77)	1,3-Dichlorobenzene	19.59	146	86864	26.87 ug/L	96
78)	1,4-Dichlorobenzene	19.67	146	83816	26.81 ug/L	96
79)	p-Isopropyltoluene	19.70	119	195986	26.37 ug/L	98
80)	1,2-Dichlorobenzene	20.12	146	73933	28.57 ug/L	98
81)	n-Butylbenzene	20.21	91	217876	26.77 ug/L	99
82)	1,2-Dibromo-3-chloropropan	20.68	75	7060	34.69 ug/L	96
83)	1,2,4-Trichlorobenzene	22.43	180	34708	29.18 ug/L	100
84)	Napthalene	22.79	128	79117	30.06 ug/L	99
85)	Hexachlorobutadiene	22.84	225	19964	30.24 ug/L	100
86)	1,2,3-Trichlorobenzene	23.06	180	27307	29.92 ug/L	99

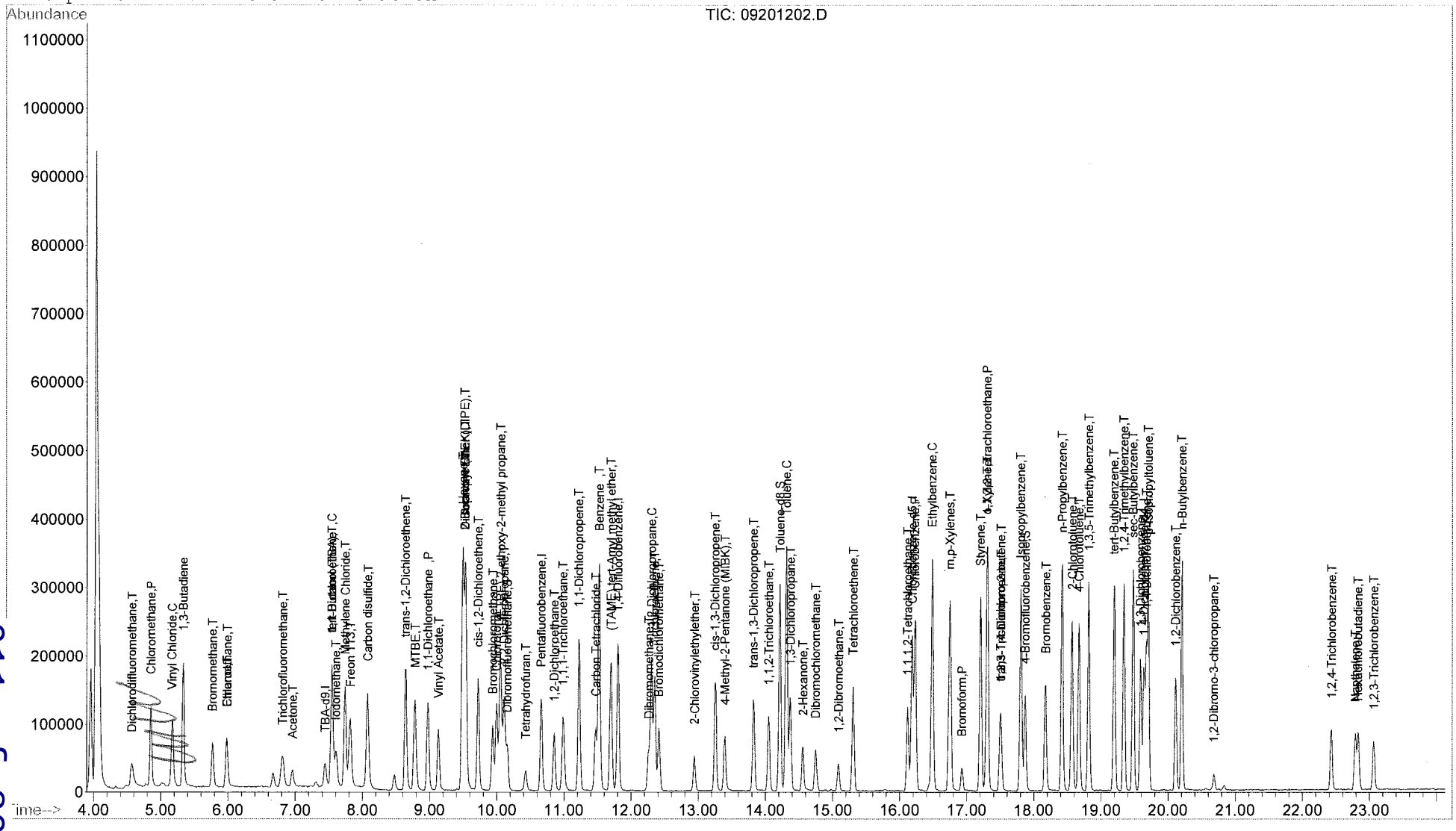
MM

(#) = qualifier out of range (m) = manual integration
09201202.D 070912.M Thu Sep 20 15:14:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration

9/24/12

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	106	-0.02
2	T	Ethanol	0.159	0.200	-25.8	132	0.00
3	T	tert-Butanol (TBA)	1.266	1.163	8.1	96	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	78	0.00
5	T	Dichlorodifluoromethane	0.819	0.626	23.6	57	-0.02
6	P	Chloromethane	1.534	1.524	0.7	73	0.00
7	C	Vinyl Chloride	1.308	1.381	-5.6	76	0.00
8		1,3-Butadiene	0.989	0.911	7.9	67	0.00
9	T	Bromomethane	0.534	0.533	0.2	74	0.00
10	T	Chloroethane	0.785	0.778	0.9	76	0.00
11	T	Trichlorofluoromethane	0.585	0.589	-0.7	73	-0.02
12	T	Acetone	0.365	0.387	-6.0	89	-0.02
13	T	Iodomethane	0.667	0.733	-9.9	81	0.00
14	C	1,1-Dichloroethene	0.629	0.663	-5.4	83	0.00
15	T	Methylene Chloride	0.705	0.702	0.4	84	0.00
16	T	Freon 113	0.584	0.619	-6.0	76	0.00
17	T	Carbon disulfide	2.522	2.615	-3.7	77	0.00
18	T	trans-1,2-Dichloroethene	0.760	0.747	1.7	81	0.00
19	T	MTBE	1.434	1.510	-5.3	85	0.00
20	P	1,1-Dichloroethane	1.503	1.674	-11.4	82	0.00
21	T	Vinyl Acetate	1.592	1.777	-11.6	88	0.00
22	T	n-Hexane	0.243	0.238	2.1	71	-0.02
23	T	2-Butanone (MEK)	0.078	0.096#	-23.1	94	0.00
24	T	Diisopropyl Ether (DIPE)	3.374	3.627	-7.5	82	0.00
25	T	cis-1,2-Dichloroethene	0.691	0.721	-4.3	84	0.00
26	T	Bromochloromethane	0.209	0.231	-10.5	80	0.00
27	C	Chloroform	0.969	1.099	-13.4	85	0.00
28	T	2,2-Dichloropropane	0.842	0.953	-13.2	88	0.00
29	T	(ETBE) 2-ethoxy-2-methyl pr	2.181	2.336	-7.1	82	0.00
30	S	Dibromofluoromethane	0.424	0.450	-6.1	78	0.00
31	T	Tetrahydrofuran	0.065	0.073#	-12.3	92	-0.02
32	T	1,2-Dichloroethane	0.608	0.698	-14.8	86	0.00
33	T	1,1,1-Trichloroethane	0.792	0.771	2.7	82	0.00
34	T	(TAME) tert-Amyl methyl eth	1.632	1.744	-6.9	87	0.00
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	80	-0.02
36	T	1,1-Dichloropropene	0.646	0.695	-7.6	80	-0.02
37	T	Carbon Tetrachloride	0.294	0.318	-8.2	80	0.00
38	T	Benzene	1.683	1.831	-8.8	82	0.00
39	T	Dibromomethane	0.147	0.163	-10.9	87	0.00
40	C	1,2-Dichloropropane	0.449	0.495	-10.2	84	0.00
41	T	Trichloroethene	0.334	0.385	-15.3	81	0.00
42	T	Bromodichloromethane	0.378	0.417	-10.3	86	0.00
43	T	2-Chlorovinylethylether	0.173	0.136	21.4	64	0.00
44	T	cis-1,3-Dichloropropene	0.569	0.624	-9.7	83	0.00
45	T	4-Methyl-2-Pentanone (MIBK)	0.418	0.476	-13.9	96	0.00
46	T	trans-1,3-Dichloropropene	0.428	0.479	-11.9	86	0.00
47	T	1,1,2-Trichloroethane	0.199	0.229	-15.1	88	0.00
48	S	Toluene-d8	1.107	1.206	-8.9	79	0.00

(#) = Out of Range

MM 9/21/12

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201202.D Vial: 2
Acq On : 20 Sep 2012 5:25 am Operator: MNM
Sample : 25 PPB CCV Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.885	0.978	-10.5	82	0.00
50	I	Chlorobenzene-d5	1.000	1.000	0.0	84	-0.01
51	T	1,3-Dichloropropane	0.605	0.672	-11.1	91	0.00
52	T	2-Hexanone	0.420	0.501	-19.3	99	-0.01
53	T	Dibromochloromethane	0.258	0.267	-3.5	83	-0.01
54	T	1,2-Dibromoethane	0.248	0.278	-12.1	91	-0.01
55	T	Tetrachloroethene	0.315	0.316	-0.3	78	-0.01
56	T	1,1,1,2-Tetrachloroethane	0.280	0.303	-8.2	85	-0.01
57	P	Chlorobenzene	1.005	1.060	-5.5	84	-0.01
58	C	Ethylbenzene	2.133	2.216	-3.9	82	-0.01
59	T	m,p-Xylenes	0.756	0.791	-4.6	82	-0.01
60	T	Styrene	1.055	1.168	-10.7	86	-0.01
61	T	o-Xylene	0.673	0.713	-5.9	83	-0.01
62	S	4-Bromofluorobenzene	0.447	0.449	-0.4	80	-0.01
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	-0.01
64	P	Bromoform	0.383	0.401	-4.7	82	-0.01
65	P	1,1,2,2-Tetrachloroethane	1.039	1.236	-19.0	99	-0.01
66	T	1,2,3-Trichloropropane	0.207	0.242	-16.9	96	-0.01
67	T	trans-1,4-Dichloro-2-butene	0.372	0.395	-6.2	88	0.00
68	T	Isopropylbenzene	4.667	4.987	-6.9	82	-0.01
69	T	Bromobenzene	0.844	0.899	-6.5	80	-0.01
70	T	n-Propylbenzene	6.600	7.065	-7.0	81	0.00
71	T	2-Chlorotoluene	3.502	3.764	-7.5	82	-0.01
72	T	4-Chlorotoluene	3.359	3.610	-7.5	82	-0.01
73	T	1,3,5-Trimethylbenzene	3.573	3.913	-9.5	81	-0.01
74	T	tert-Butylbenzene	3.059	3.268	-6.8	78	0.00
75	T	1,2,4-Trimethylbenzene	3.422	3.780	-10.5	82	-0.01
76	T	sec-Butylbenzene	5.273	5.729	-8.6	81	-0.01
77	T	1,3-Dichlorobenzene	1.636	1.759	-7.5	80	-0.01
78	T	1,4-Dichlorobenzene	1.582	1.697	-7.3	80	-0.01
79	T	p-Isopropyltoluene	3.762	3.968	-5.5	77	-0.01
80	T	1,2-Dichlorobenzene	1.310	1.497	-14.3	83	0.00
81	T	n-Butylbenzene	4.120	4.411	-7.1	78	0.00
82	T	1,2-Dibromo-3-chloropropane	0.106	0.143	-34.9#	94	-0.01
83	T	1,2,4-Trichlorobenzene	0.602	0.703	-16.8	76	-0.01
84	T	Napthalene	1.332	1.602	-20.3	84	-0.01
85	T	Hexachlorobutadiene	0.362	0.404	-11.6	77	0.00
86	T	1,2,3-Trichlorobenzene	0.462	0.553	-19.7	77	-0.01

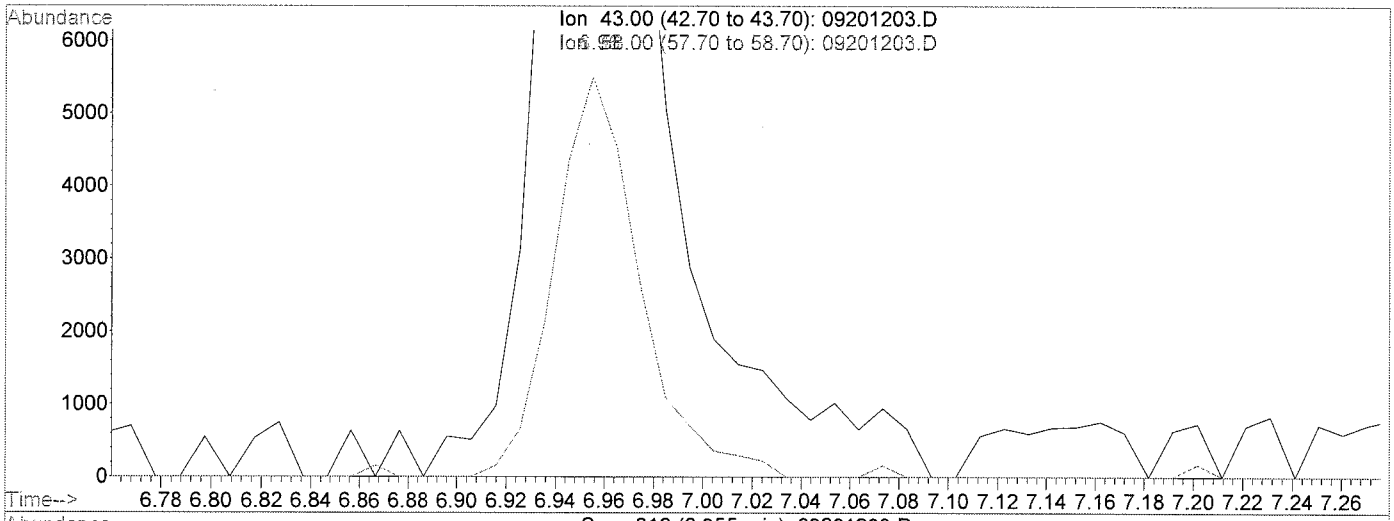
MM

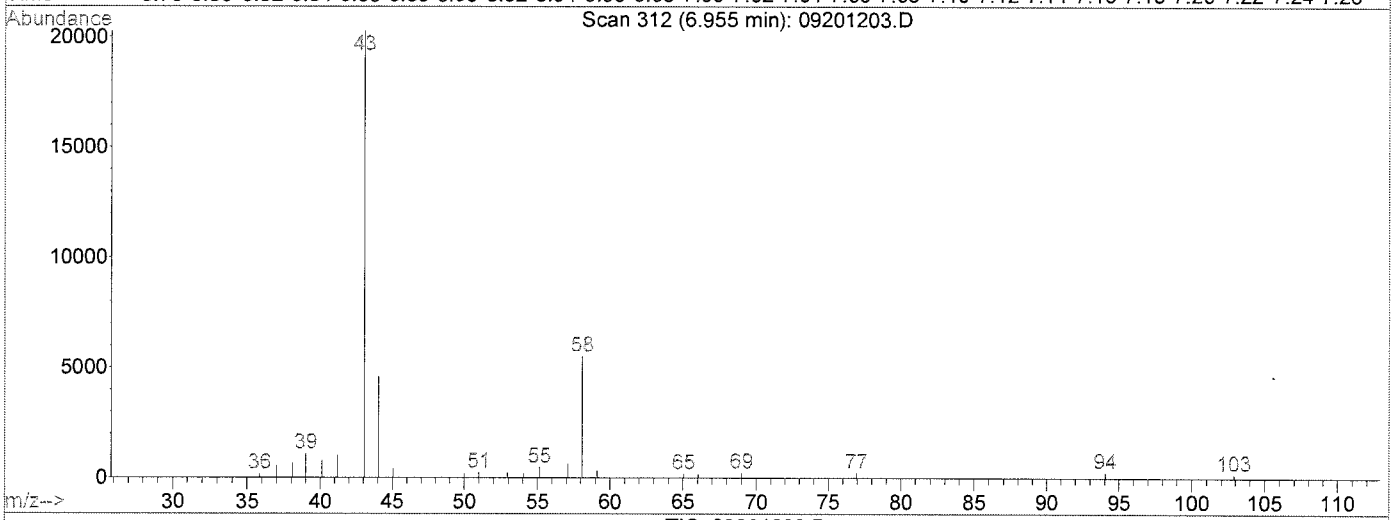
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201203.D Vial: 3
Acq On : 20 Sep 2012 5:57 am Operator: MNM
Sample : 12I0719-BS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201203.D

(12) Acetone (T)

6.96min 32.23ug/L

response 55367

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	24.07#
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

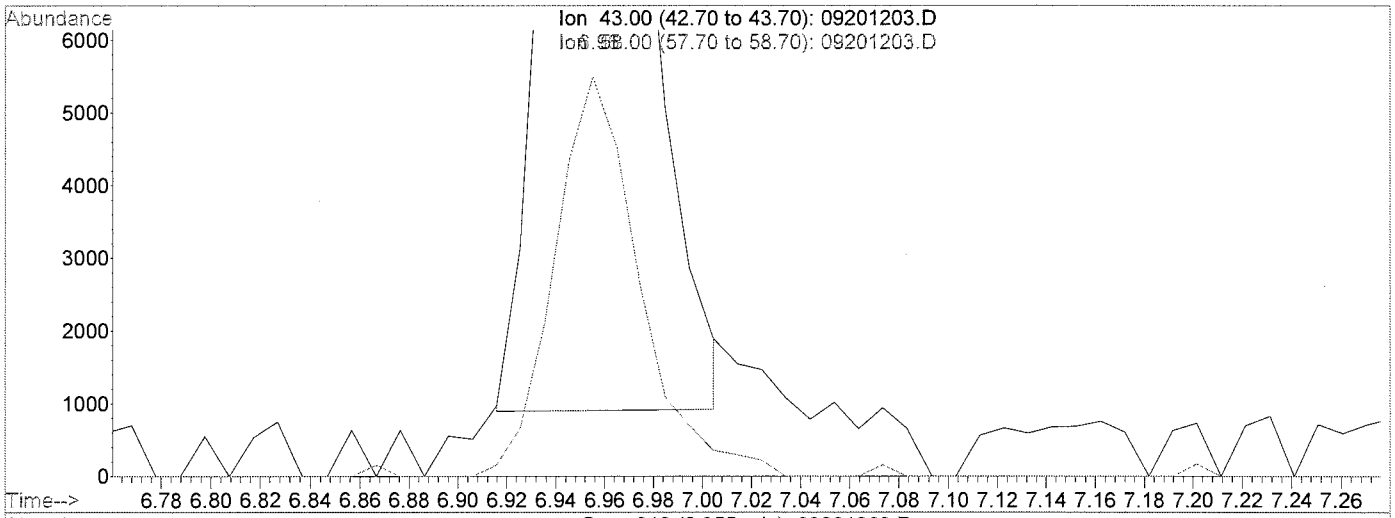
BL

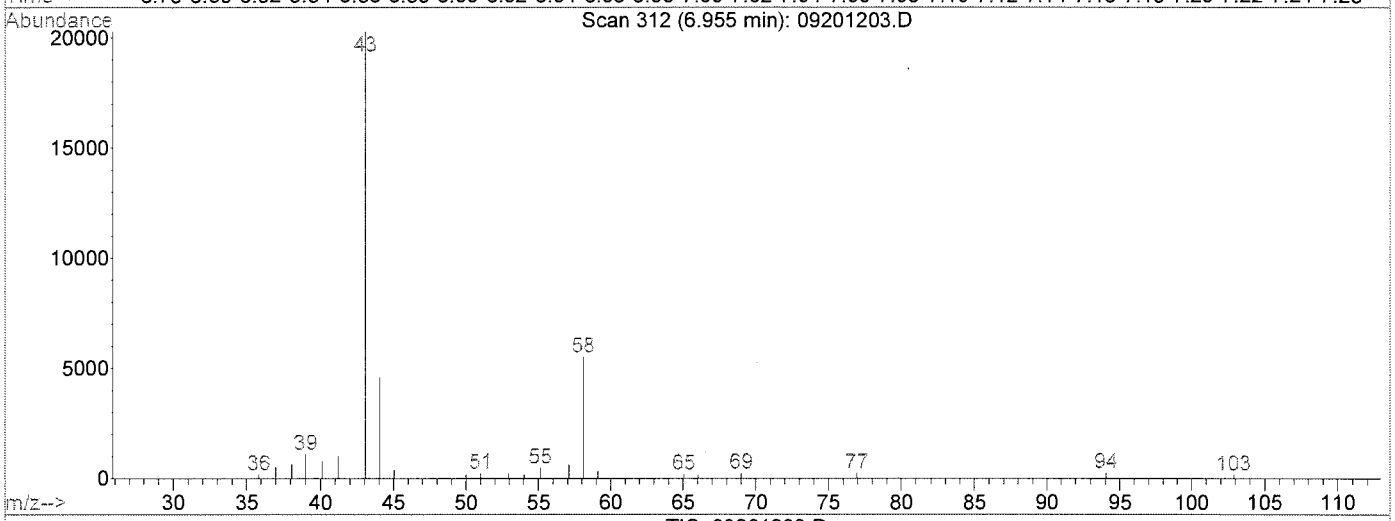
BL MM 9/21/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201203.D Vial: 3
Acq On : 20 Sep 2012 5:57 am Operator: MNM
Sample : 12I0719-BS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201203.D

(12) Acetone (T)

6.96min 25.92ug/L m

response 44525

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	29.93
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

A MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201203.D Vial: 3
Acq On : 20 Sep 2012 5:57 am Operator: MNM
Sample : 12I0719-BS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	57005	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	117503	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.80	114	205994	25.00 ug/L	-0.02
50) Chlorobenzene-d5	16.19	117	158349	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	57267	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	51811	26.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.08%	
48) Toluene-d8	14.22	98	240686	26.38 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.52%	
62) 4-Bromofluorobenzene	17.87	95	69938	24.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.80%	
Target Compounds					Qvalue
2) Ethanol	5.98	45	13169	289.73 ug/L #	69
3) tert-Butanol (TBA)	7.56	59	48242	133.67 ug/L	99
5) Dichlorodifluoromethane	4.57	85	94256	24.48 ug/L	97
6) Chloromethane	4.86	50	213420	29.60 ug/L	98
7) Vinyl Chloride	5.17	62	160782	26.15 ug/L	99
8) 1,3-Butadiene	5.33	54	158785	34.17 ug/L	98
9) Bromomethane	5.77	94	66459	26.47 ug/L	98
10) Chloroethane	5.98	64	89270	24.18 ug/L	97
11) Trichlorofluoromethane	6.81	101	76360	27.79 ug/L	97
12) Acetone	6.96	43	44525m	25.92 ug/L	
13) Iodomethane	7.61	142	91921	29.31 ug/L	99
14) 1,1-Dichloroethene	7.55	96	73177	24.76 ug/L	99
15) Methylene Chloride	7.74	84	70723	24.21 ug/L	96
16) Freon 113	7.81	101	73424	26.73 ug/L	98
17) Carbon disulfide	8.07	76	313825	26.48 ug/L	98
18) trans-1,2-Dichloroethene	8.64	96	83830	26.70 ug/L	100
19) MTBE	8.78	73	163133	24.21 ug/L	99
20) 1,1-Dichloroethane	8.98	63	174604	24.72 ug/L	100
21) Vinyl Acetate	9.13	43	218761	29.24 ug/L	99
22) n-Hexane	9.49	86	27740	24.27 ug/L	93
23) 2-Butanone (MEK)	9.53	72	10666	28.92 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.53	45	409634	25.83 ug/L #	52
25) cis-1,2-Dichloroethene	9.72	96	80965	27.28 ug/L	98
26) Bromochloromethane	9.94	128	22882	23.25 ug/L #	65
27) Chloroform	10.00	83	109755	24.09 ug/L	100
28) 2,2-Dichloropropane	10.11	77	99066	27.94 ug/L	94
29) (ETBE) 2-ethoxy-2-methyl p	10.05	59	246721	24.07 ug/L	96
31) Tetrahydrofuran	10.43	72	6516	21.33 ug/L	78
32) 1,2-Dichloroethane	10.86	62	74234	25.97 ug/L	98
33) 1,1,1-Trichloroethane	10.99	97	79700	25.82 ug/L	98
34) (TAME) tert-Amyl methyl et	11.70	73	185958	24.25 ug/L	97
36) 1,1-Dichloropropene	11.22	75	116240	21.83 ug/L	99
37) Carbon Tetrachloride	11.47	117	57225	23.62 ug/L	99
38) Benzene	11.52	78	340177	24.53 ug/L	99
39) Dibromomethane	12.26	93	28458	23.53 ug/L	100
40) 1,2-Dichloropropane	12.30	63	90114	24.34 ug/L	99

(#) = qualifier out of range (m) = manual integration

MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201203.D Vial: 3
Acq On : 20 Sep 2012 5:57 am Operator: MNM
Sample : 12I0719-BS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

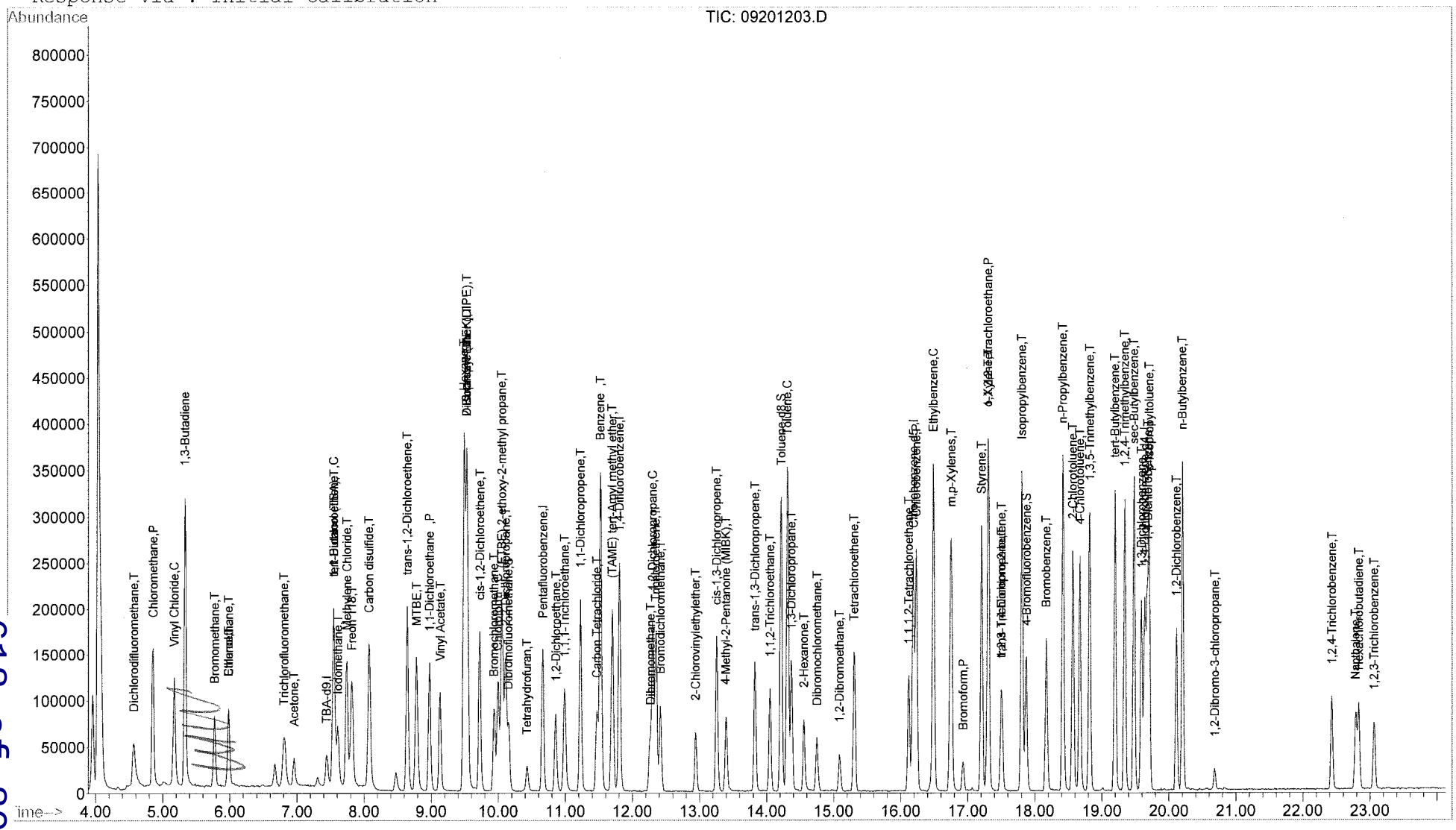
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.35	95	70457	25.57 ug/L	97
42) Bromodichloromethane	12.41	83	74929	24.05 ug/L	98
43) 2-Chlorovinylethylether	12.94	63	32438	22.75 ug/L	96
44) cis-1,3-Dichloropropene	13.25	75	113113	24.14 ug/L	98
45) 4-Methyl-2-Pentanone (MIBK	13.39	43	89307	25.92 ug/L	100
46) trans-1,3-Dichloropropene	13.82	75	86087	24.41 ug/L	97
47) 1,1,2-Trichloroethane	14.05	97	42385	25.88 ug/L	100
49) Toluene	14.32	92	186484	25.57 ug/L	98
51) 1,3-Dichloropropane	14.37	76	92259	24.08 ug/L	99
52) 2-Hexanone	14.55	43	80841	30.42 ug/L	100
53) Dibromochloromethane	14.75	129	35897	21.96 ug/L	99
54) 1,2-Dibromoethane	15.09	107	38237	24.31 ug/L	98
55) Tetrachloroethene	15.31	164	44731	22.40 ug/L	99
56) 1,1,1,2-Tetrachloroethane	16.12	131	42260	23.84 ug/L	97
57) Chlorobenzene	16.23	112	153610	24.14 ug/L	98
58) Ethylbenzene	16.48	91	318401	23.57 ug/L	99
59) m,p-Xylenes	16.75	106	111963	23.39 ug/L	100
60) Styrene	17.20	104	162047	24.25 ug/L	99
61) o-Xylene	17.31	106	102145	23.95 ug/L	98
64) Bromoform	16.93	173	19312	22.02 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.29	83	60951	25.60 ug/L	97
66) 1,2,3-Trichloropropane	17.50	110	11045	23.33 ug/L	92
67) trans-1,4-Dichloro-2-buten	17.51	53	18133	21.25 ug/L	96
68) Isopropylbenzene	17.81	105	278801	26.08 ug/L	98
69) Bromobenzene	18.17	156	45467	23.51 ug/L	92
70) n-Propylbenzene	18.42	91	373028	24.67 ug/L	99
71) 2-Chlorotoluene	18.56	91	193398	24.11 ug/L	98
72) 4-Chlorotoluene	18.67	91	185710	24.14 ug/L	98
73) 1,3,5-Trimethylbenzene	18.82	105	201642	24.63 ug/L	98
74) tert-Butylbenzene	19.19	119	169611	24.21 ug/L	99
75) 1,2,4-Trimethylbenzene	19.34	105	189680	24.20 ug/L	99
76) sec-Butylbenzene	19.48	105	296721	24.56 ug/L	98
77) 1,3-Dichlorobenzene	19.59	146	91460	24.40 ug/L	98
78) 1,4-Dichlorobenzene	19.68	146	86457	23.85 ug/L	98
79) p-Isopropyltoluene	19.71	119	200416	23.26 ug/L	98
80) 1,2-Dichlorobenzene	20.11	146	73668	24.55 ug/L	97
81) n-Butylbenzene	20.20	91	229297	24.30 ug/L	99
82) 1,2-Dibromo-3-chloropropan	20.68	75	6936	28.97 ug/L	96
83) 1,2,4-Trichlorobenzene	22.43	180	35963	26.07 ug/L	96
84) Napthalene	22.79	128	83132	27.24 ug/L	100
85) Hexachlorobutadiene	22.83	225	22155	28.89 ug/L	99
86) 1,2,3-Trichlorobenzene	23.06	180	29124	27.53 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201203.D Vial: 3
Acq On : 20 Sep 2012 5:57 am Operator: MNM
Sample : 12I0719-BS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

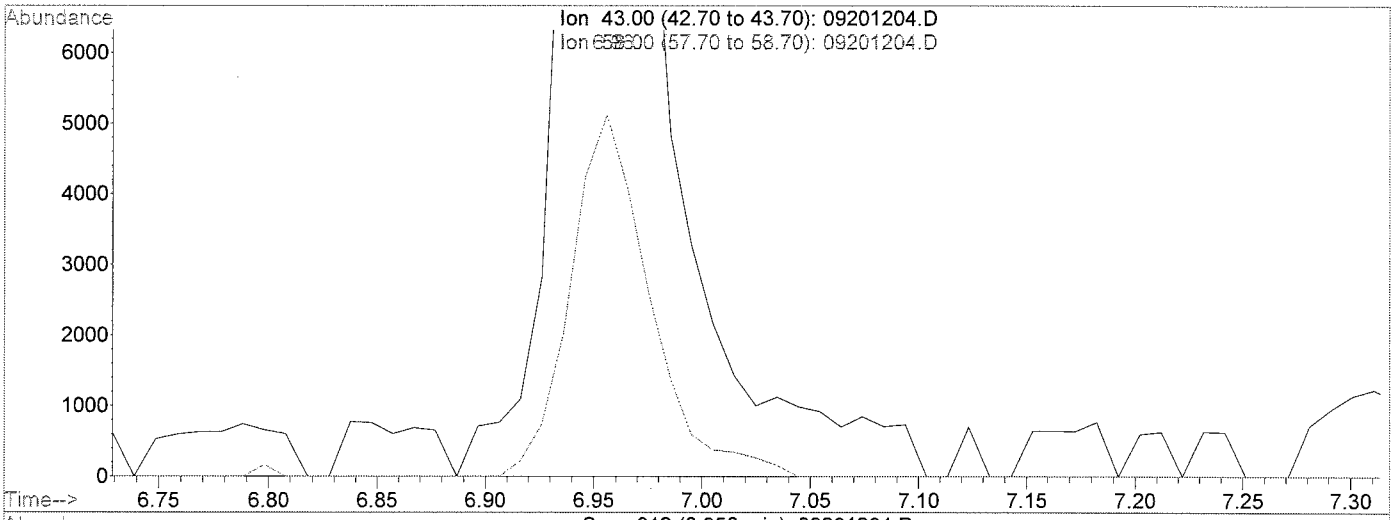
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

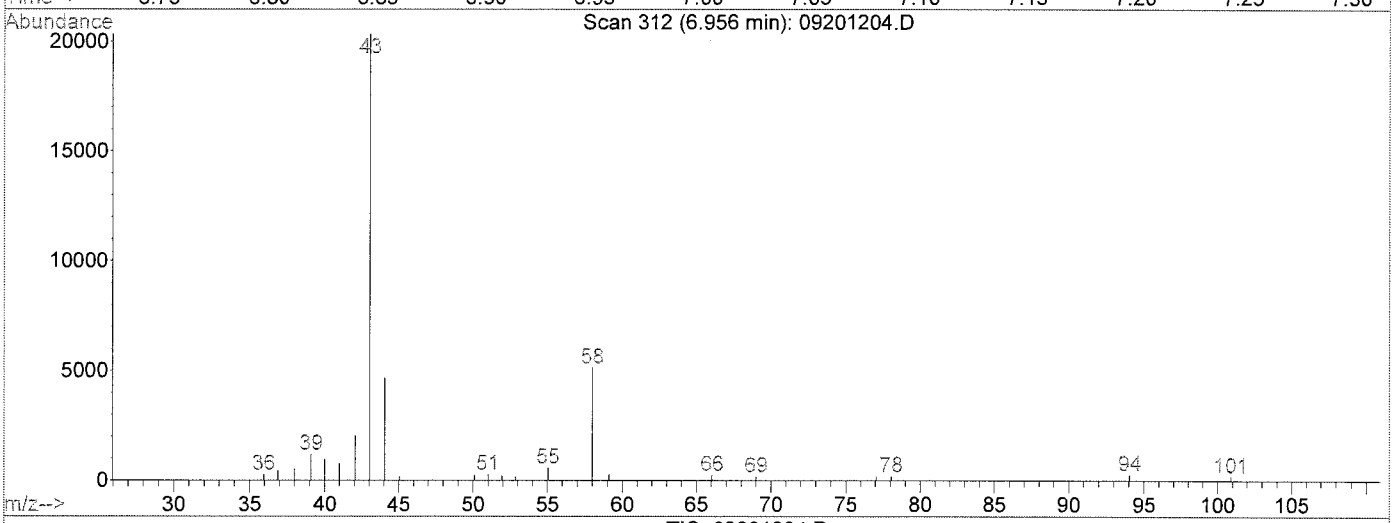


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201204.D Vial: 4
Acq On : 20 Sep 2012 6:30 am Operator: MNM
Sample : 12I0719-BSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201204.D

(12) Acetone (T)

6.96min 34.32ug/L

response 56668

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	23.01#
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

B

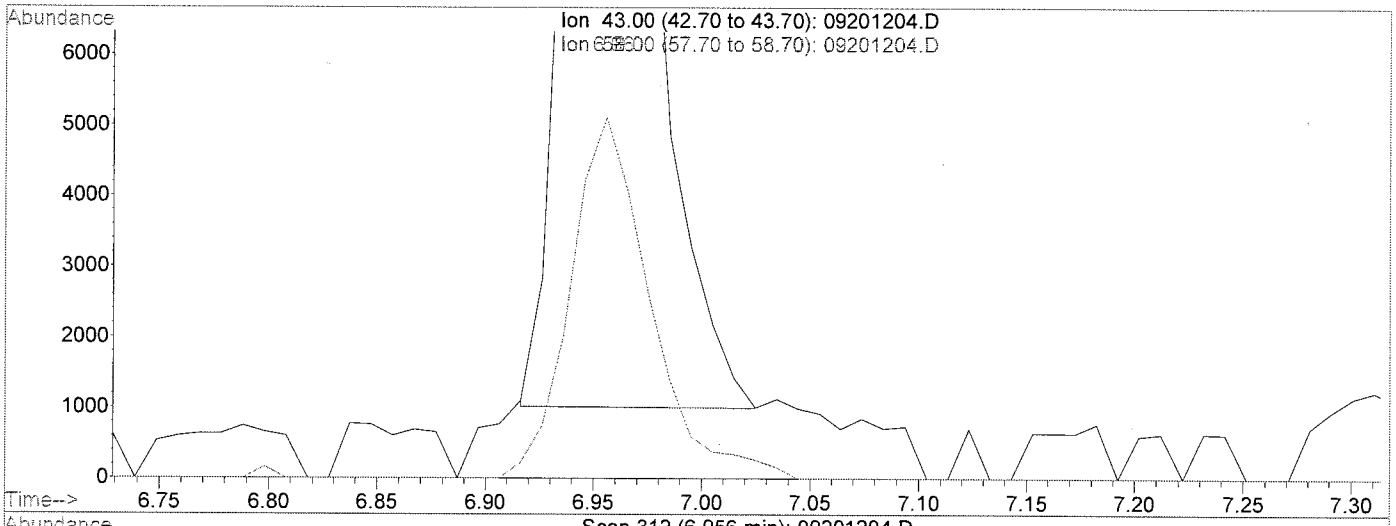
BL

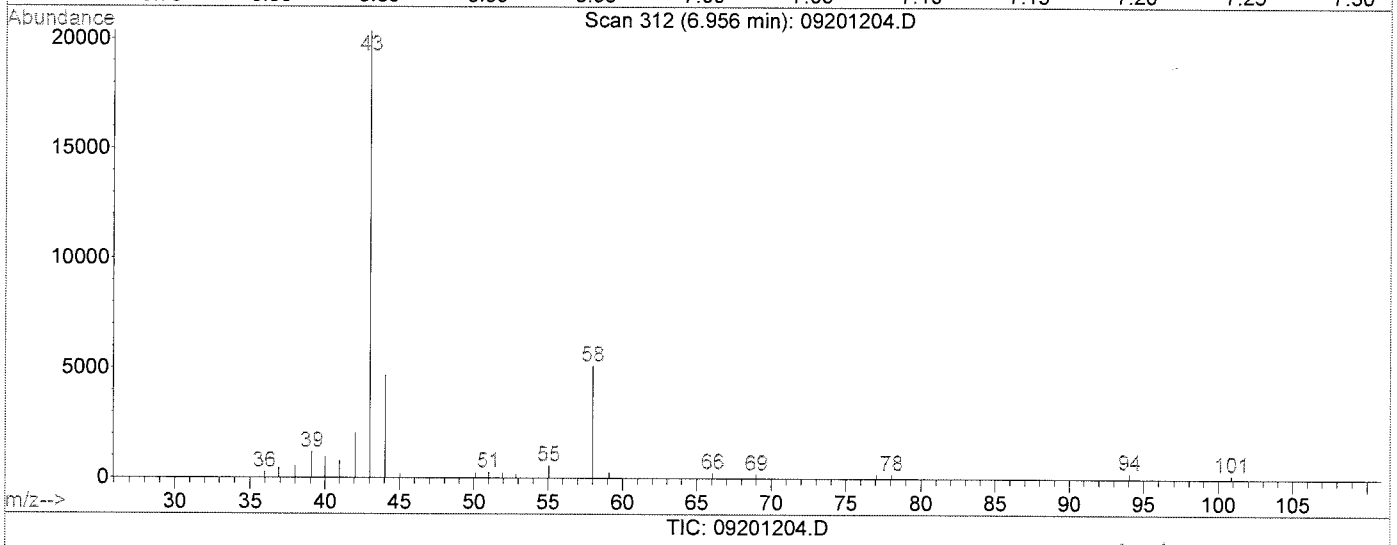
MM 9/21/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201204.D Vial: 4
Acq On : 20 Sep 2012 6:30 am Operator: MNM
Sample : 12I0719-BSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





(12) Acetone (T)

6.96min 27.29ug/L m

response 45060

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	28.94
0.00	0.00	0.00
0.00	0.00	0.00

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MM 9/24/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201204.D Vial: 4
Acq On : 20 Sep 2012 6:30 am Operator: MNM
Sample : 12I0719-BSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	57715	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	112949	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.80	114	193939	25.00 ug/L	-0.02
50) Chlorobenzene-d5	16.19	117	145216	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	50104	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	48706	25.45 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.80%	
48) Toluene-d8	14.22	98	223441	26.01 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.04%	
62) 4-Bromofluorobenzene	17.87	95	62133	23.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 95.68%	
Target Compounds					Qvalue
2) Ethanol	5.98	45	13355	290.21 ug/L #	70
3) tert-Butanol (TBA)	7.56	59	47901	131.10 ug/L	97
5) Dichlorodifluoromethane	4.57	85	92152	24.90 ug/L	99
6) Chloromethane	4.86	50	208159	30.03 ug/L	97
7) Vinyl Chloride	5.17	62	157222	26.60 ug/L	99
8) 1,3-Butadiene	5.33	54	158220	35.43 ug/L	98
9) Bromomethane	5.77	94	63832	26.45 ug/L	97
10) Chloroethane	5.98	64	87829	24.75 ug/L	98
11) Trichlorofluoromethane	6.81	101	76017	28.78 ug/L	95
12) Acetone	6.96	43	45060m	27.29 ug/L	
13) Iodomethane	7.61	142	89444	29.67 ug/L	99
14) 1,1-Dichloroethene	7.55	96	72933	25.68 ug/L	99
15) Methylene Chloride	7.74	84	68360	24.35 ug/L	97
16) Freon 113	7.81	101	73625	27.88 ug/L	96
17) Carbon disulfide	8.07	76	306554	26.91 ug/L	96
18) trans-1,2-Dichloroethene	8.64	96	80559	26.70 ug/L	98
19) MTBE	8.78	73	155001	23.93 ug/L	99
20) 1,1-Dichloroethane	8.98	63	170364	25.09 ug/L	99
21) Vinyl Acetate	9.12	43	197471	27.46 ug/L	99
22) n-Hexane	9.49	86	26555	24.17 ug/L	89
23) 2-Butanone (MEK)	9.53	72	10086	28.45 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.53	45	386845	25.38 ug/L #	50
25) cis-1,2-Dichloroethene	9.72	96	76219	26.72 ug/L	99
26) Bromochloromethane	9.94	128	22001	23.25 ug/L #	69
27) Chloroform	9.99	83	102957	23.51 ug/L	99
28) 2,2-Dichloropropane	10.11	77	97562	28.64 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	10.05	59	229987	23.34 ug/L	95
31) Tetrahydrofuran	10.42	72	6864	23.37 ug/L	89
32) 1,2-Dichloroethane	10.85	62	70133	25.52 ug/L	98
33) 1,1,1-Trichloroethane	10.99	97	76653	25.84 ug/L	97
34) (TAME) tert-Amyl methyl et	11.70	73	172446	23.39 ug/L	98
36) 1,1-Dichloropropene	11.22	75	110784	22.10 ug/L	98
37) Carbon Tetrachloride	11.47	117	56459	24.75 ug/L	99
38) Benzene	11.52	78	336235	25.75 ug/L	100
39) Dibromomethane	12.26	93	27710	24.34 ug/L	94
40) 1,2-Dichloropropane	12.30	63	85752	24.60 ug/L	98

(#) = qualifier out of range (m) = manual integration
09201204.D 070912.M Thu Sep 20 15:15:42 2012

MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201204.D Vial: 4
Acq On : 20 Sep 2012 6:30 am Operator: MNM
Sample : 12I0719-BSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.35	95	68116	26.26 ug/L	98
42)	Bromodichloromethane	12.42	83	71504	24.38 ug/L	98
43)	2-Chlorovinylethylether	12.94	63	29455	21.94 ug/L	98
44)	cis-1,3-Dichloropropene	13.25	75	108145	24.51 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	13.39	43	84852	26.16 ug/L	99
46)	trans-1,3-Dichloropropene	13.82	75	81616	24.58 ug/L	99
47)	1,1,2-Trichloroethane	14.05	97	39033	25.32 ug/L	100
49)	Toluene	14.31	92	176250	25.67 ug/L	99
51)	1,3-Dichloropropane	14.37	76	87036	24.77 ug/L	98
52)	2-Hexanone	14.55	43	74161	30.43 ug/L	98
53)	Dibromochloromethane	14.75	129	33973	22.66 ug/L	99
54)	1,2-Dibromoethane	15.09	107	35869	24.86 ug/L	97
55)	Tetrachloroethene	15.30	164	43646	23.83 ug/L	100
56)	1,1,1,2-Tetrachloroethane	16.12	131	40285	24.78 ug/L	98
57)	Chlorobenzene	16.23	112	144334	24.74 ug/L	97
58)	Ethylbenzene	16.49	91	304476	24.58 ug/L	99
59)	m,p-Xylenes	16.75	106	105134	23.95 ug/L	97
60)	Styrene	17.20	104	153059	24.98 ug/L	98
61)	o-Xylene	17.30	106	98689	25.23 ug/L	98
64)	Bromoform	16.93	173	17684	23.04 ug/L	100
65)	1,1,2,2-Tetrachloroethane	17.29	83	56120	26.94 ug/L	96
66)	1,2,3-Trichloropropane	17.50	110	10090	24.36 ug/L	96
67)	trans-1,4-Dichloro-2-buten	17.51	53	16693	22.36 ug/L	98
68)	Isopropylbenzene	17.81	105	264949	28.32 ug/L	99
69)	Bromobenzene	18.17	156	41351	24.44 ug/L	90
70)	n-Propylbenzene	18.42	91	349688	26.43 ug/L	100
71)	2-Chlorotoluene	18.56	91	178857	25.48 ug/L	98
72)	4-Chlorotoluene	18.67	91	171079	25.42 ug/L	100
73)	1,3,5-Trimethylbenzene	18.82	105	189911	26.52 ug/L	97
74)	tert-Butylbenzene	19.20	119	160555	26.19 ug/L	97
75)	1,2,4-Trimethylbenzene	19.34	105	173846	25.35 ug/L	98
76)	sec-Butylbenzene	19.48	105	278672	26.37 ug/L	99
77)	1,3-Dichlorobenzene	19.59	146	81933	24.99 ug/L	97
78)	1,4-Dichlorobenzene	19.68	146	77525	24.45 ug/L	98
79)	p-Isopropyltoluene	19.71	119	183650	24.36 ug/L	97
80)	1,2-Dichlorobenzene	20.11	146	66504	25.33 ug/L	98
81)	n-Butylbenzene	20.20	91	207054	25.08 ug/L	100
82)	1,2-Dibromo-3-chloropropan	20.68	75	6181	29.56 ug/L	99
83)	1,2,4-Trichlorobenzene	22.43	180	30188	25.02 ug/L	98
84)	Napthalene	22.79	128	72434	27.12 ug/L	98
85)	Hexachlorobutadiene	22.83	225	18375	27.33 ug/L	99
86)	1,2,3-Trichlorobenzene	23.06	180	24083	26.02 ug/L	96

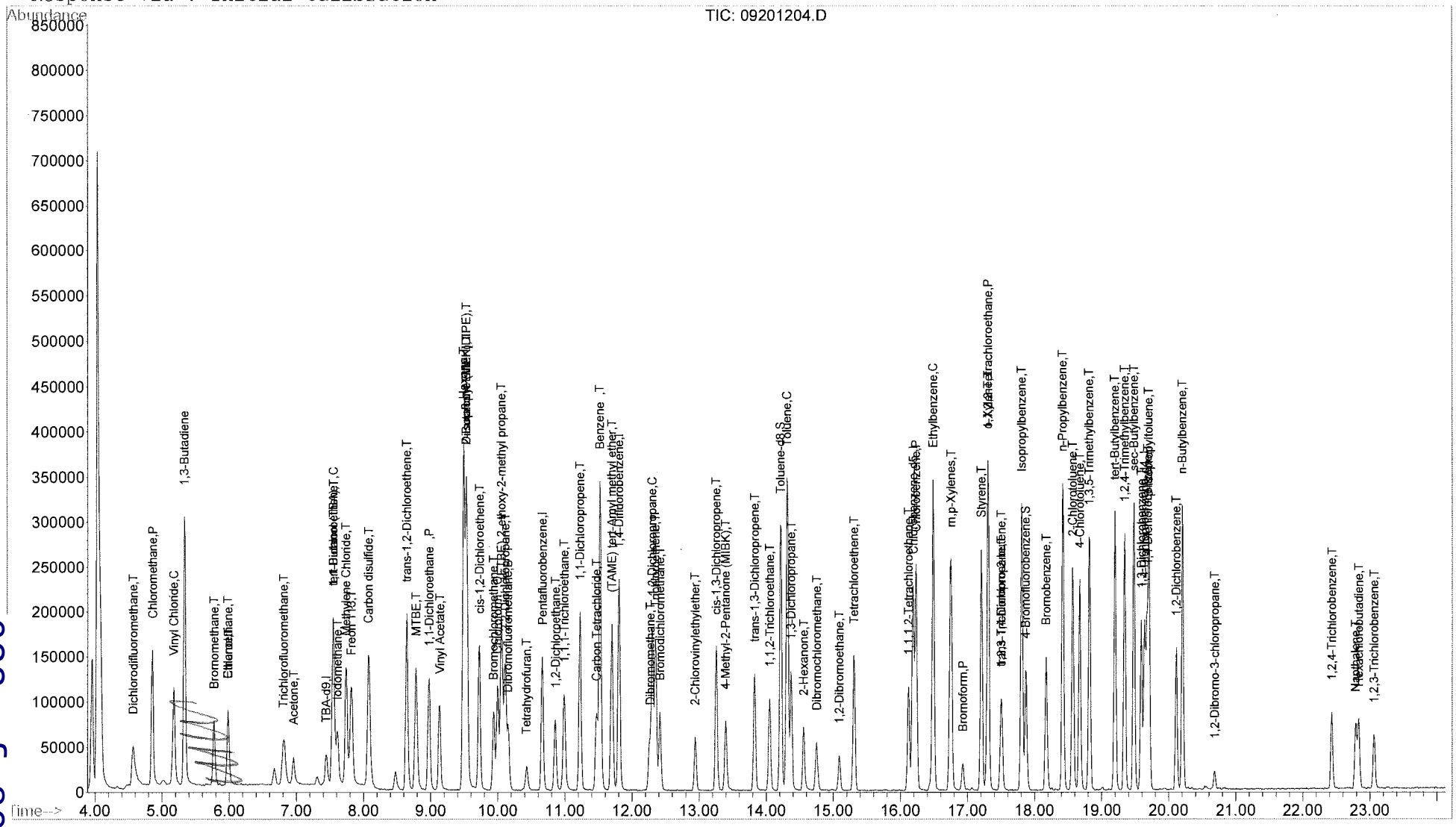
MM

(#) = qualifier out of range (m) = manual integration
09201204.D 070912.M Thu Sep 20 15:15:42 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201204.D Vial: 4
Acq On : 20 Sep 2012 6:30 am Operator: MNM
Sample : 12I0719-BSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201205.D Vial: 5
Acq On : 20 Sep 2012 7:02 am Operator: MNM
Sample : 12I0719-BLK1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	59873	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	120003	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.81	114	205911	25.00 ug/L	-0.01
50) Chlorobenzene-d5	16.18	117	157037	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	51943	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.15	113	50079	24.63 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 98.52%	
48) Toluene-d8	14.21	98	236019	25.87 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.48%	
62) 4-Bromofluorobenzene	17.87	95	65156	23.20 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 92.80%	
Target Compounds					Qvalue
2) Ethanol	5.97	45	239	5.01 ug/L #	17
3) tert-Butanol (TBA)	7.56	59	98	0.26 ug/L #	1
9) Bromomethane	5.77	94	794	0.31 ug/L #	2
12) Acetone	6.97	43	4608	2.63 ug/L #	60
15) Methylene Chloride	7.74	84	662	Below Cal #	83
21) Vinyl Acetate	9.14	43	1722	0.23 ug/L #	83
28) 2,2-Dichloropropane	10.17	77	136	Below Cal #	1
34) (TAME) tert-Amyl methyl et	11.81	73	2609	0.33 ug/L #	10
45) 4-Methyl-2-Pentanone (MIBK	13.39	43	1459	0.42 ug/L #	40
51) 1,3-Dichloropropane	14.21	76	2452	0.65 ug/L #	73
52) 2-Hexanone	14.57	43	1642	0.62 ug/L #	65
81) n-Butylbenzene	20.20	91	777	0.09 ug/L #	79
82) 1,2-Dibromo-3-chloropropan	20.82	75	112	Below Cal #	8
83) 1,2,4-Trichlorobenzene	22.42	180	117	0.09 ug/L #	76
84) Napthalene	22.80	128	2792	1.01 ug/L #	86
86) 1,2,3-Trichlorobenzene	23.06	180	296	0.31 ug/L #	84

WMT

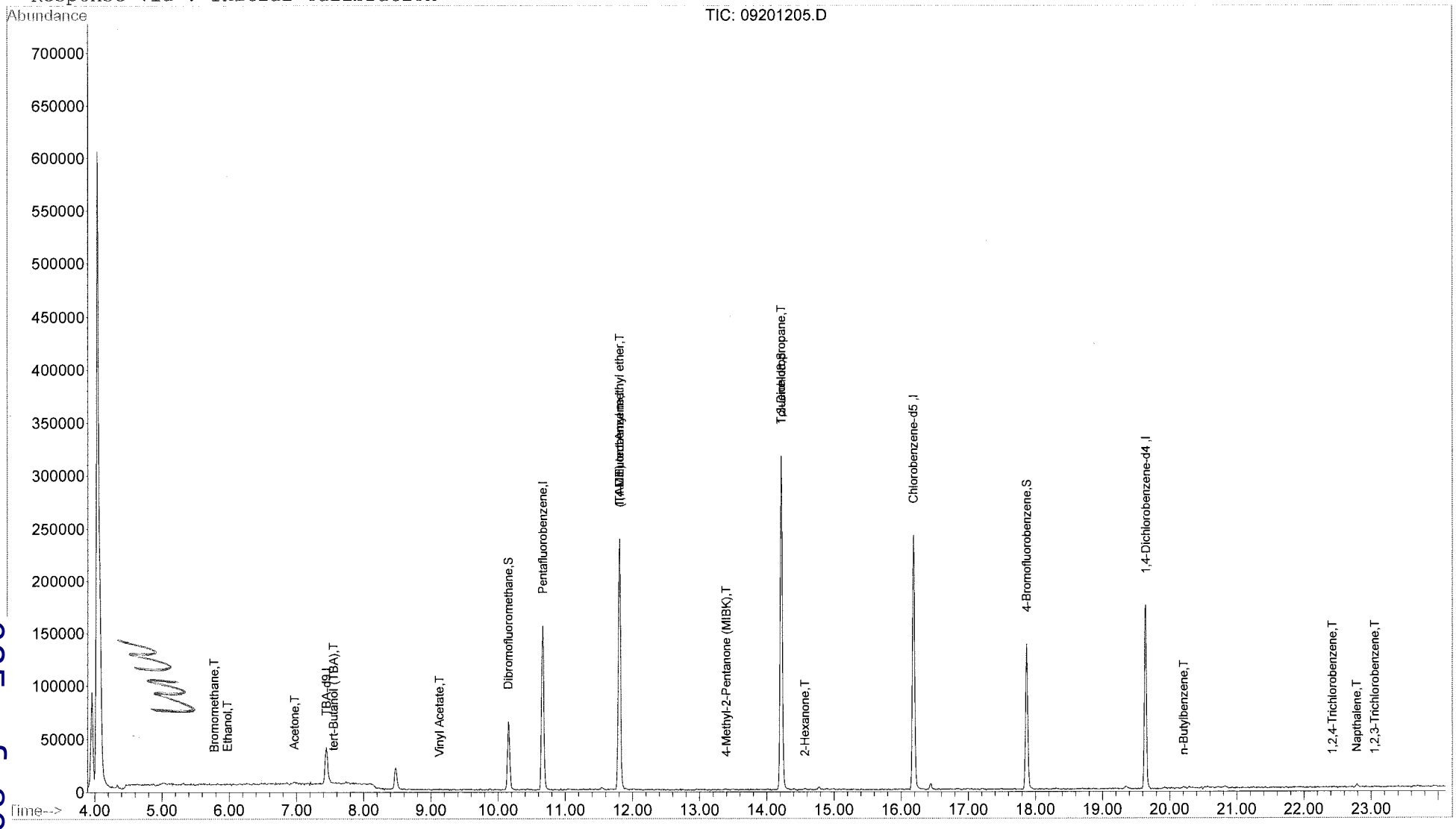
MM 9/21/12

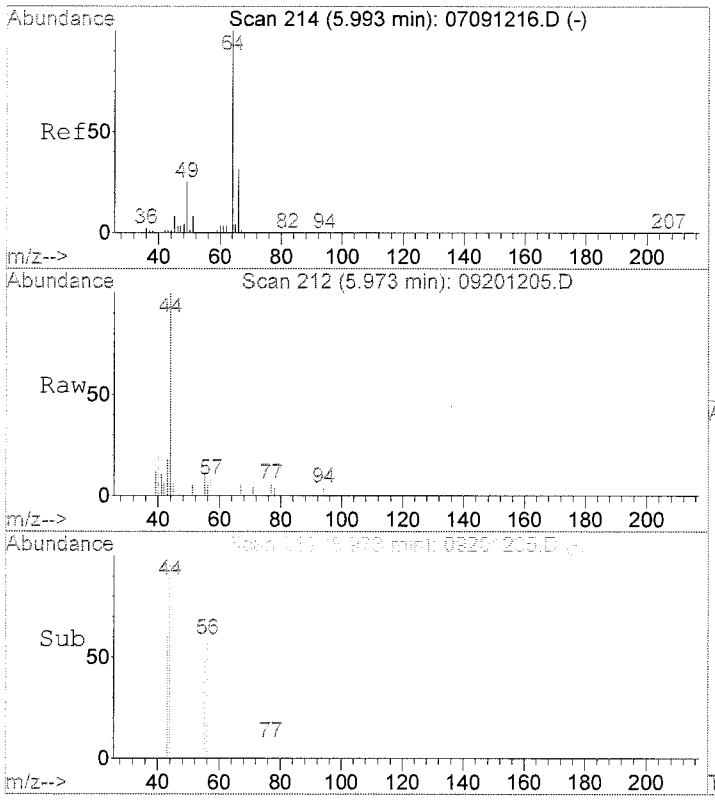
(#) = qualifier out of range (m) = manual integration
09201205.D 070912.M Thu Sep 20 15:15:56 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201205.D Vial: 5
Acq On : 20 Sep 2012 7:02 am Operator: MNM
Sample : 12I0719-BLK1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:15 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

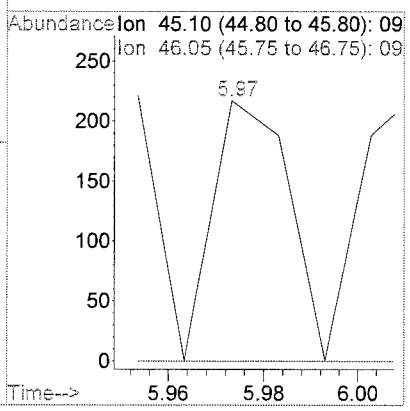


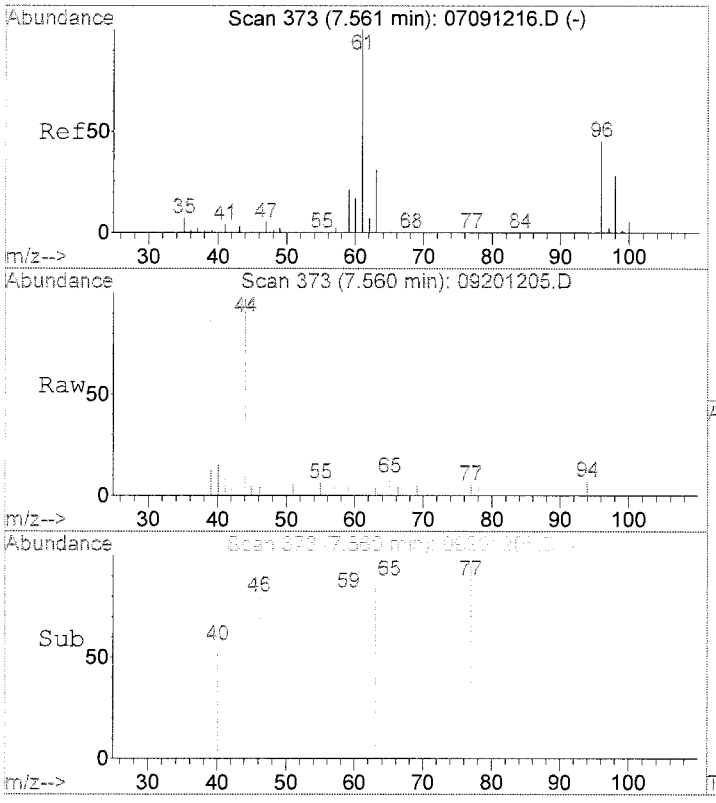


#2
Ethanol
Concen: 5.01 ug/L
RT: 5.97 min Scan# 212
Delta R.T. -0.02 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 45 Resp: 239

Ion	Ratio	Lower	Upper
45	100		
46	0.0	45.9	85.9#

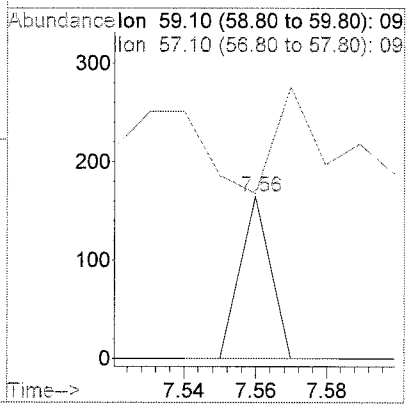




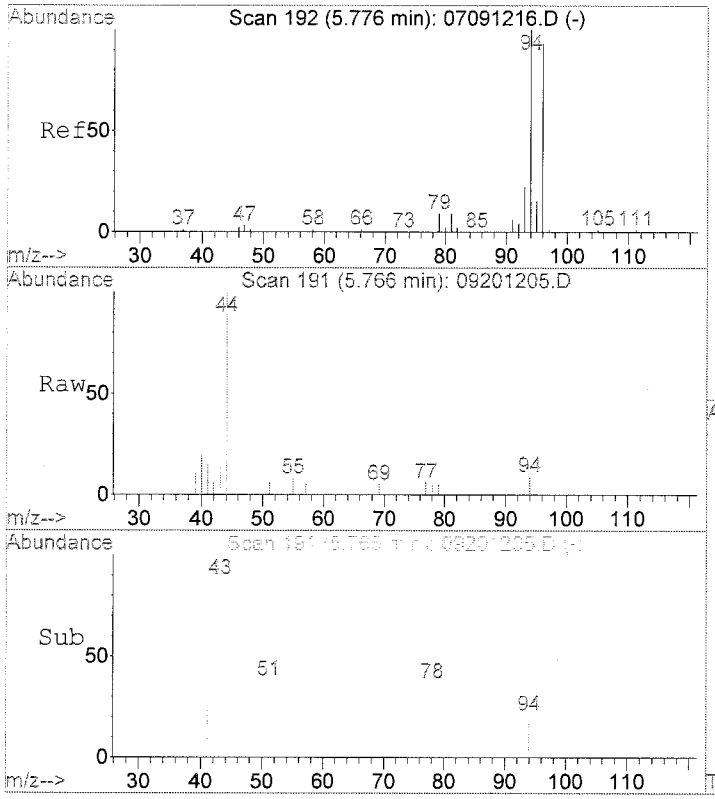
#3
tert-Butanol (TBA)
Concen: 0.26 ug/L
RT: 7.56 min Scan# 373
Delta R.T. -0.00 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 59 Resp: 98

Ion	Ratio	Lower	Upper
59	100		
57	258.2	6.8	10.2#



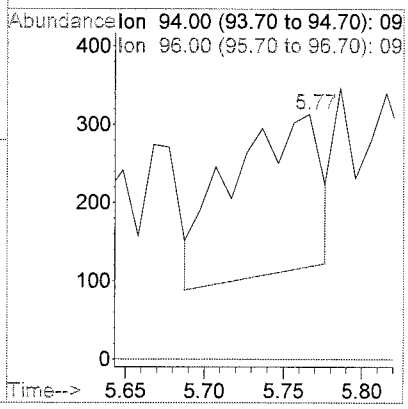
mm



#9
Bromomethane
Concen: 0.31 ug/L
RT: 5.77 min Scan# 191
Delta R.T. -0.01 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 94 Resp: 794

Ion	Ratio	Lower	Upper
94	100		
96	0.0	76.8	115.2#



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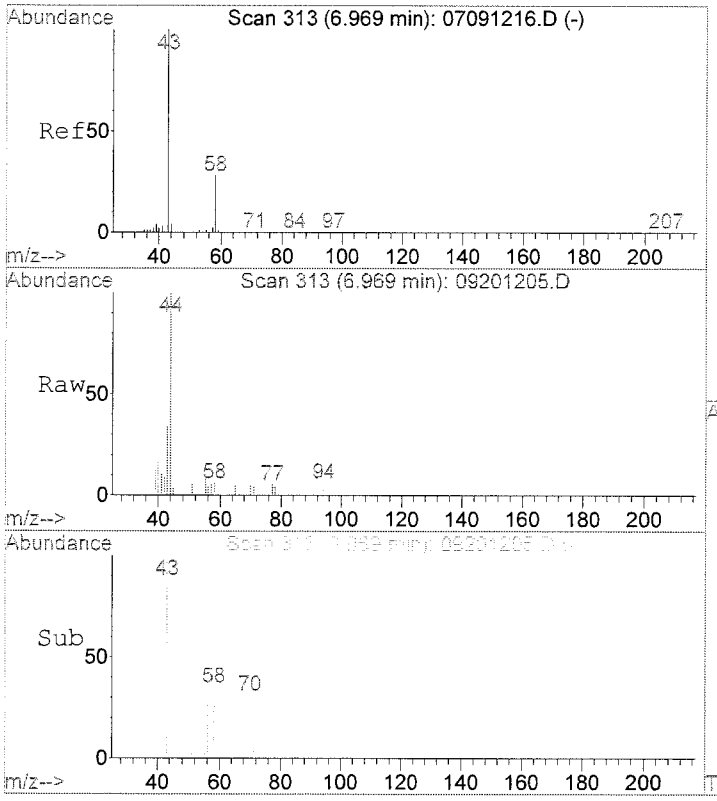
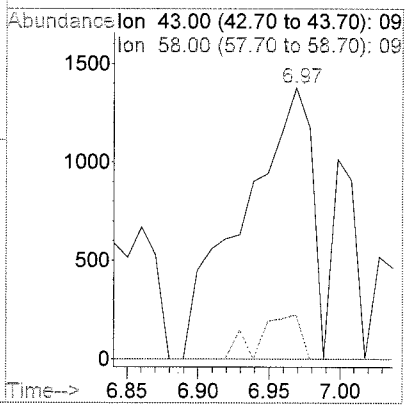


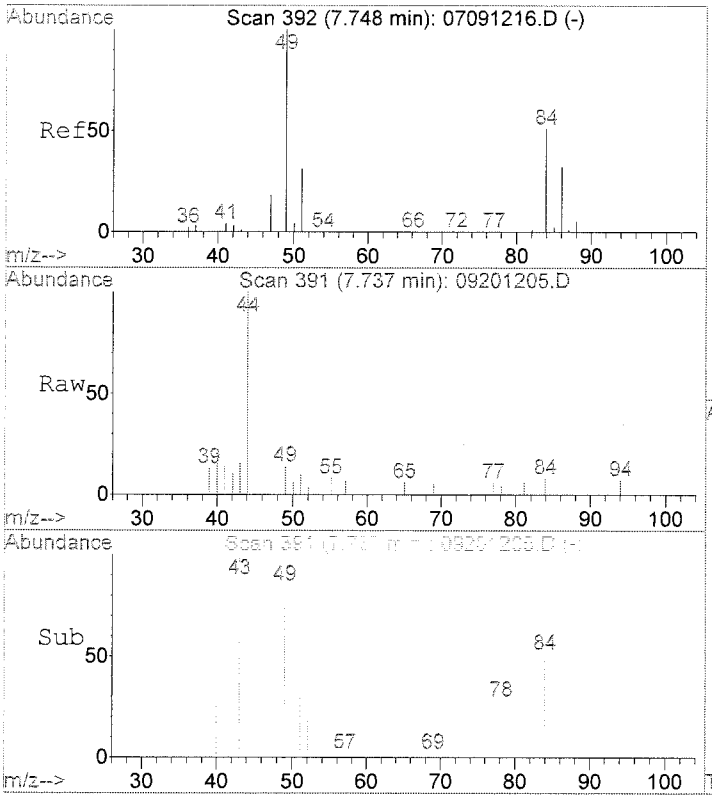
#12
Acetone
Concen: 2.63 ug/L
RT: 6.97 min Scan# 313
Delta R.T. -0.00 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 43 Resp: 4608

Ion	Ratio	Lower	Upper
43	100		
58	9.9	25.7	38.5#



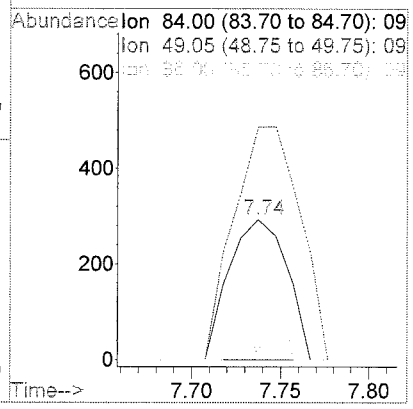
MM

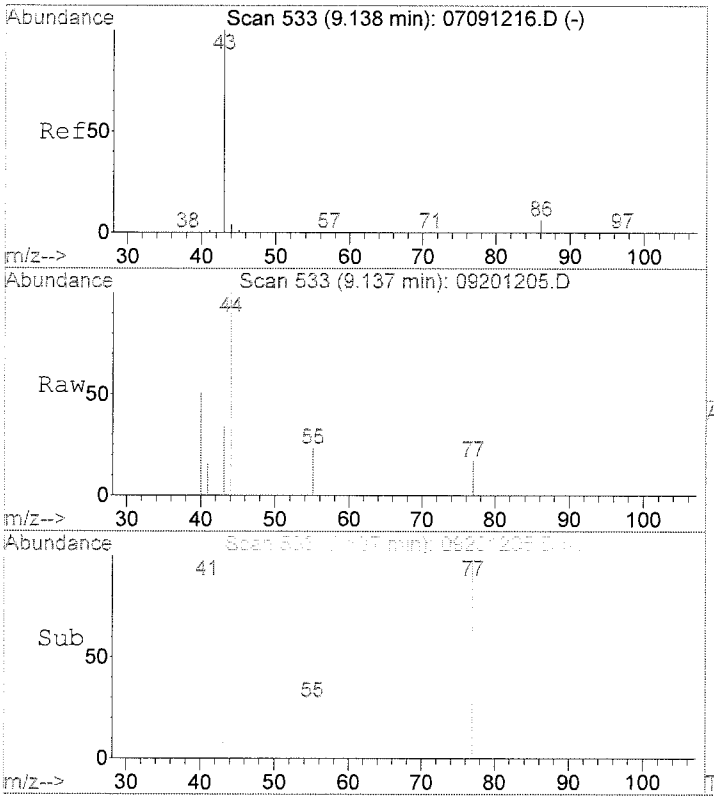


#15
Methylene Chloride
Concen: Below Cal
RT: 7.74 min Scan# 391
Delta R.T. -0.01 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 84 Resp: 662

Ion	Ratio	Lower	Upper
84	100		
49	189.9	147.9	221.9
86	14.8	47.8	71.6#

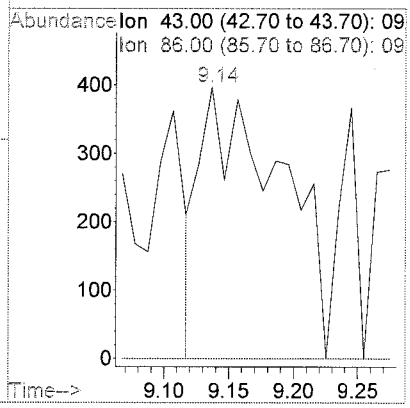


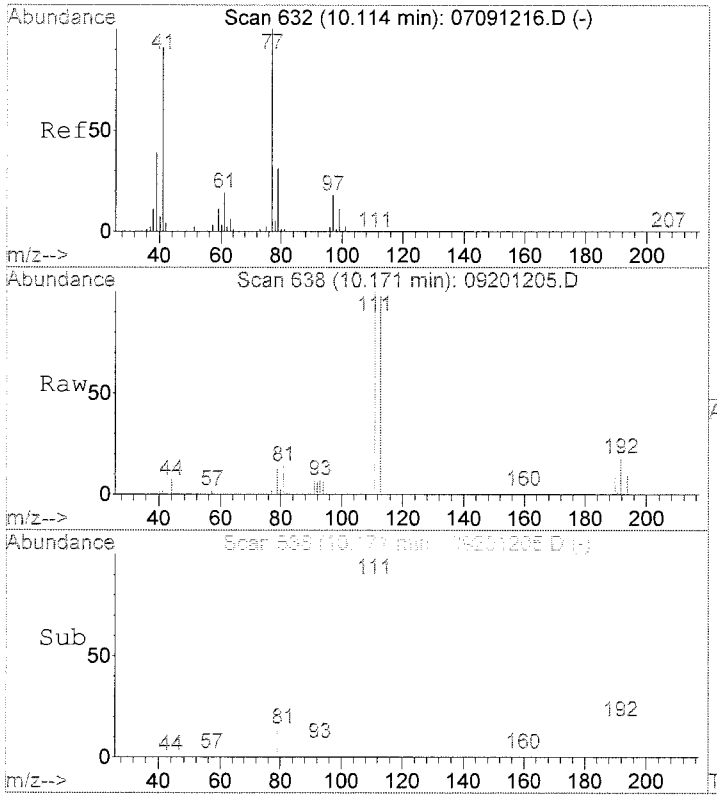


#21
Vinyl Acetate
Concen: 0.23 ug/L
RT: 9.14 min Scan# 533
Delta R.T. -0.00 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 43 Resp: 1722

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.5	6.7#

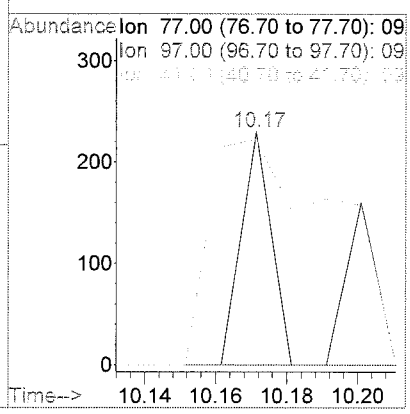


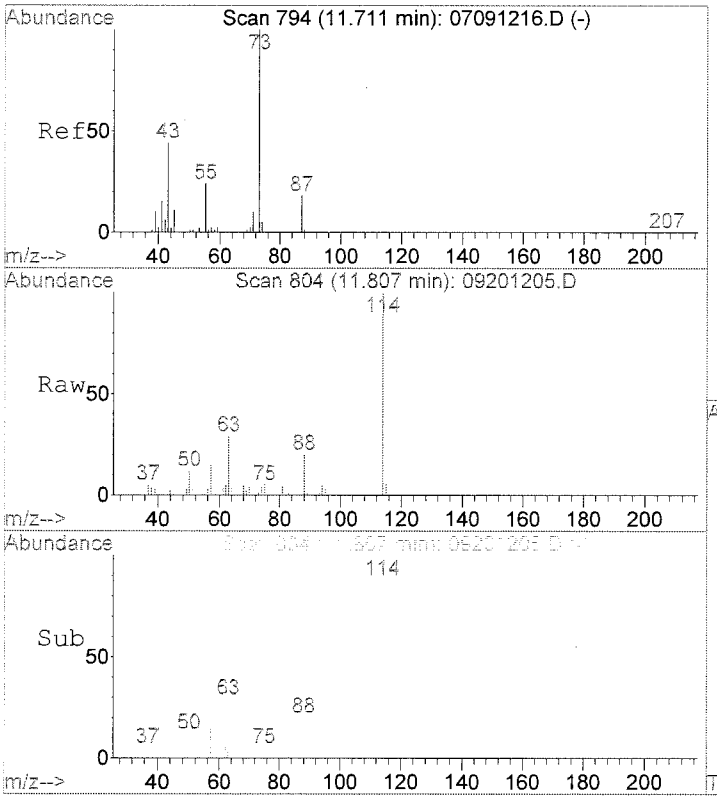


#28
2,2-Dichloropropane
Concen: Below Cal
RT: 10.17 min Scan# 638
Delta R.T. 0.06 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 77 Resp: 136

Ion	Ratio	Lower	Upper
77	100		
97	0.0	15.0	22.4#
41	396.3	72.3	108.5#

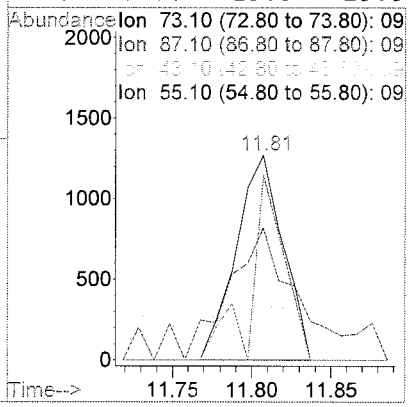


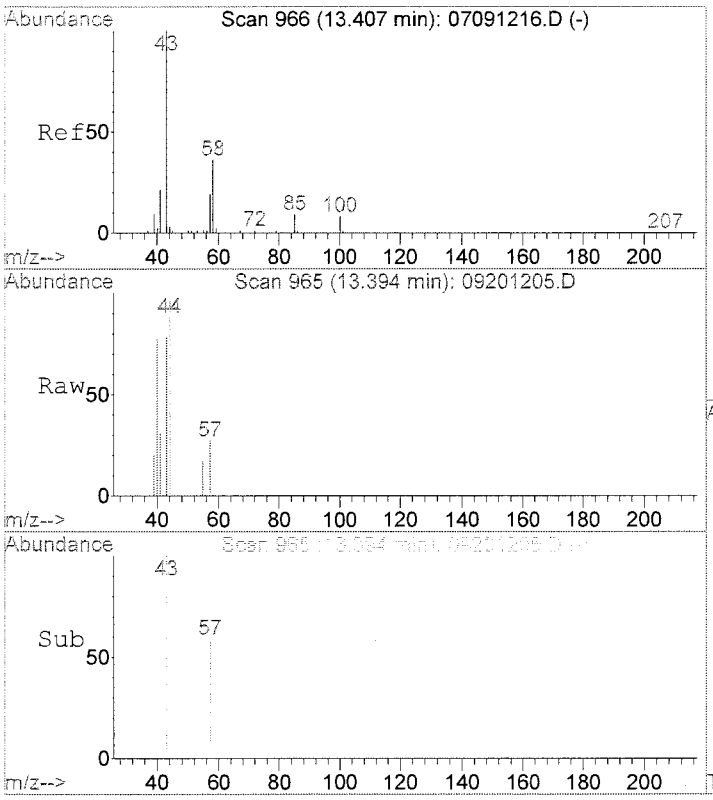


#34
(TAME) tert-Amyl methyl ether
Concen: 0.33 ug/L
RT: 11.81 min Scan# 804
Delta R.T. 0.10 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 73 Resp: 2609

Ion	Ratio	Lower	Upper
73	100		
87	64.9	14.6	21.8#
43	14.6	36.8	55.2#
55	104.0	19.9	29.9#

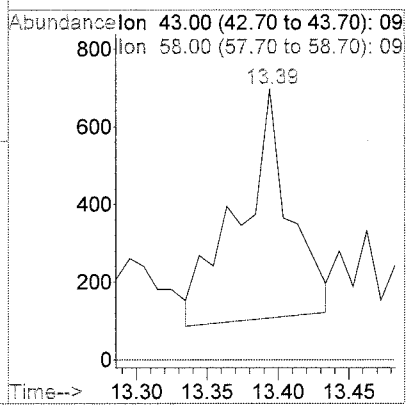


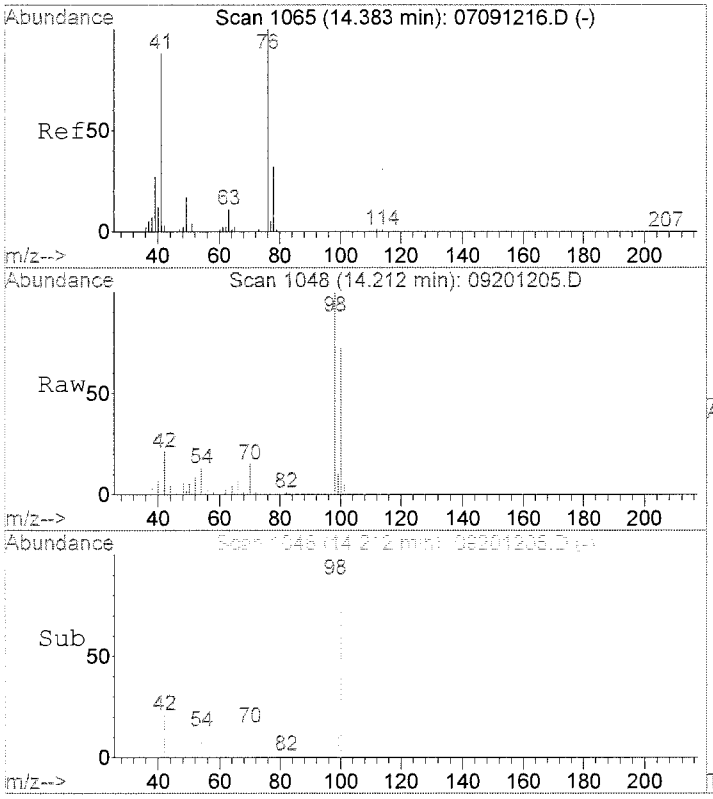


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.42 ug/L
RT: 13.39 min Scan# 965
Delta R.T. -0.01 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 43 Resp: 1459

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	41.9#

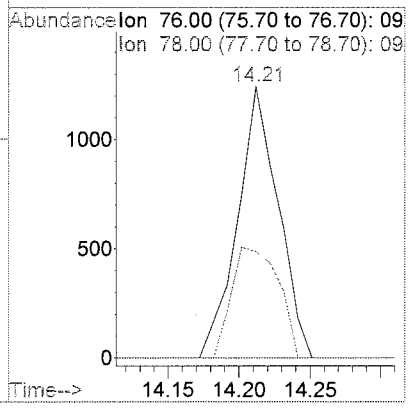


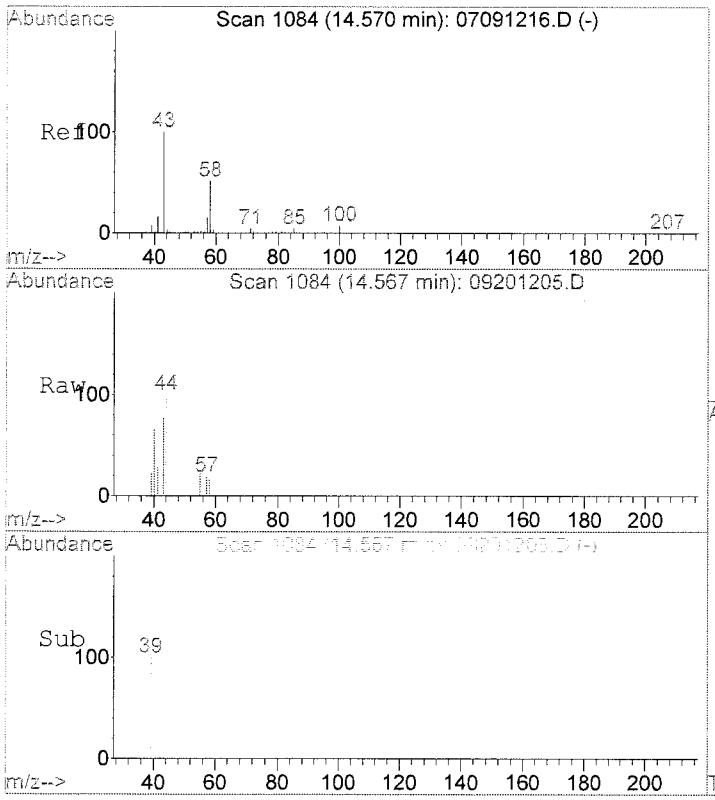


#51
1,3-Dichloropropane
Concen: 0.65 ug/L
RT: 14.21 min Scan# 1048
Delta R.T. -0.17 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 76 Resp: 2452

Ion	Ratio	Lower	Upper
76	100		
78	46.9	25.6	38.4#

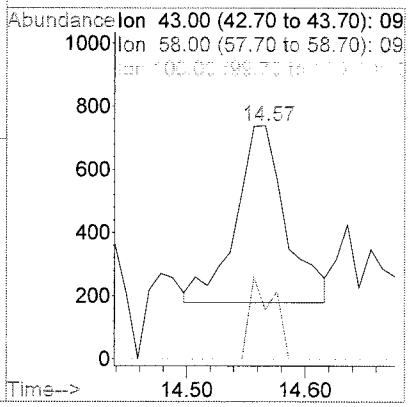


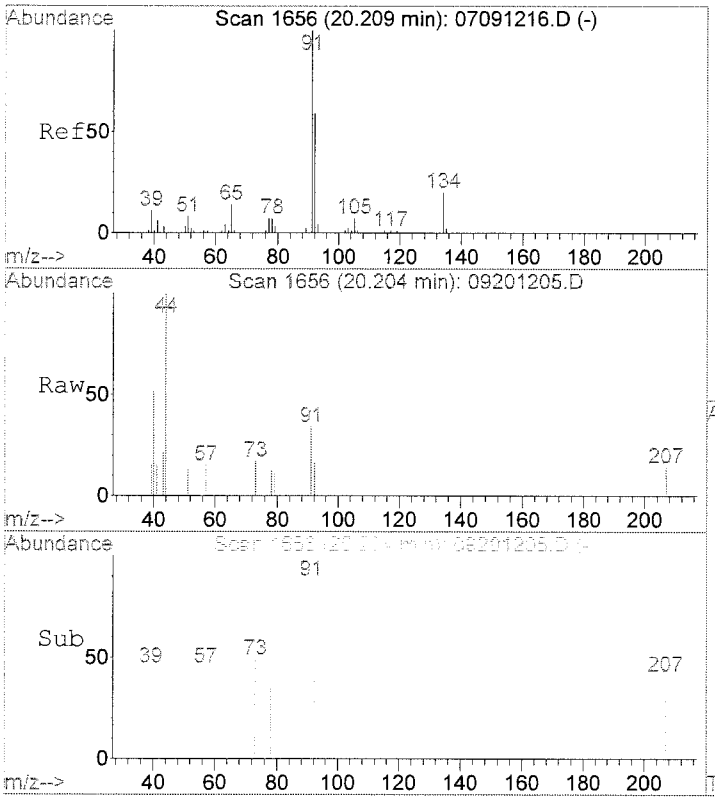


#52
2-Hexanone
Concen: 0.62 ug/L
RT: 14.57 min Scan# 1084
Delta R.T. -0.00 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 43 Resp: 1642

Ion	Ratio	Lower	Upper
43	100		
58	22.7	38.3	57.5#
100	0.0	5.1	7.7#

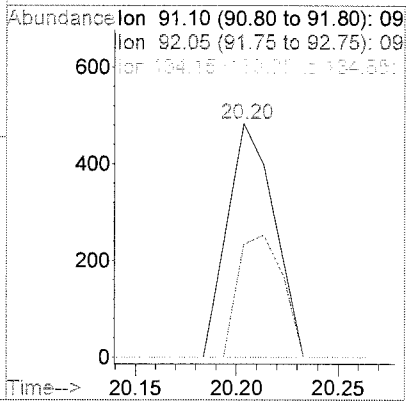


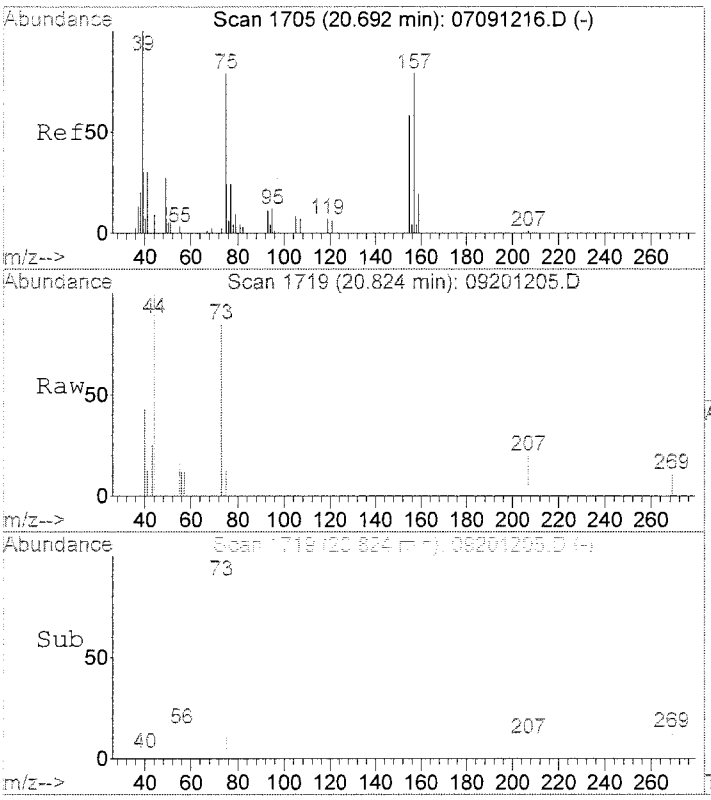


#81
n-Butylbenzene
Concen: 0.09 ug/L
RT: 20.20 min Scan# 1656
Delta R.T. -0.00 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 91 Resp: 777

Ion	Ratio	Lower	Upper
91	100		
92	49.8	47.4	71.0
134	0.0	16.3	24.5#

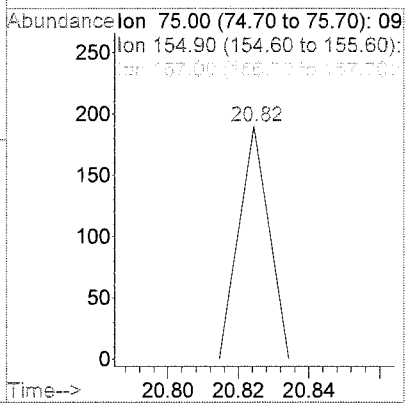




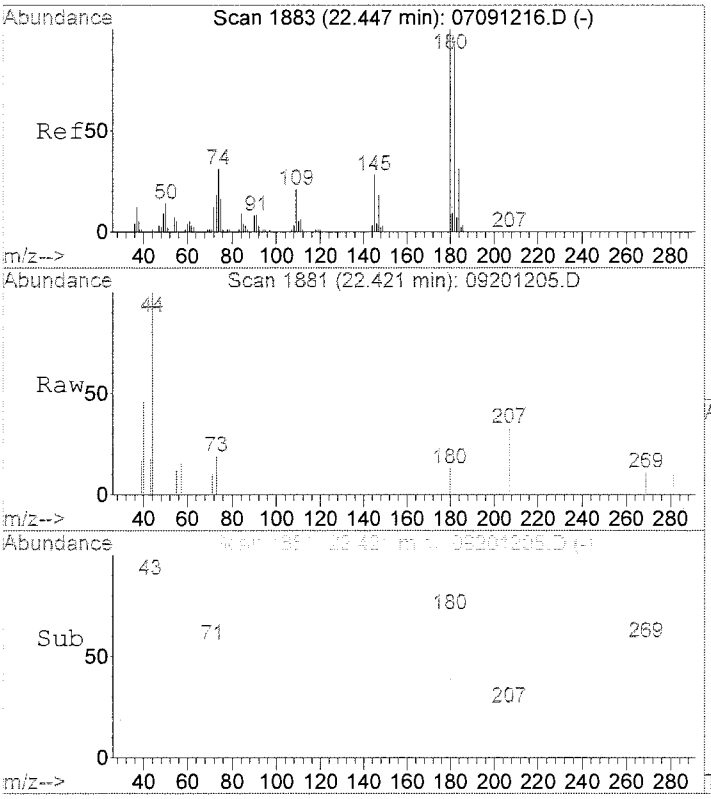
#82
1,2-Dibromo-3-chloropropane
Concen: Below Cal
RT: 20.82 min Scan# 1719
Delta R.T. 0.13 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion: 75 Resp: 112

Ion	Ratio	Lower	Upper
75	100		
155	0.0	56.3	84.5#
157	0.0	75.5	113.3#



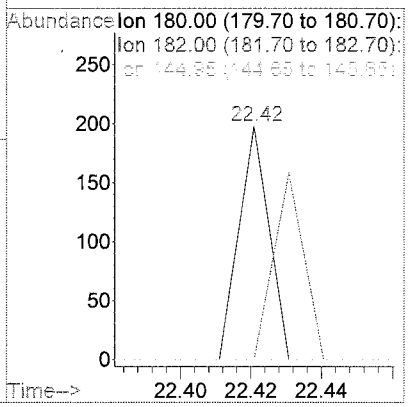
9

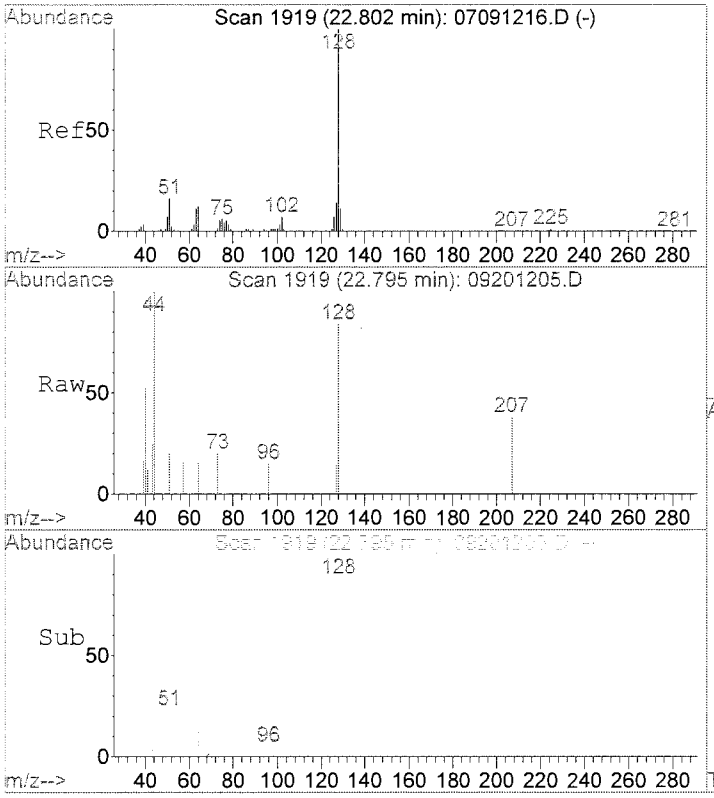


#83
1,2,4-Trichlorobenzene
Concen: 0.09 ug/L
RT: 22.42 min Scan# 1881
Delta R.T. -0.03 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion:180 Resp: 117

Ion	Ratio	Lower	Upper
180	100		
182	79.5	74.9	112.3
145	0.0	23.0	34.4#

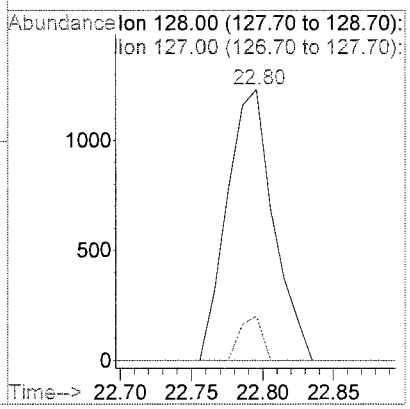


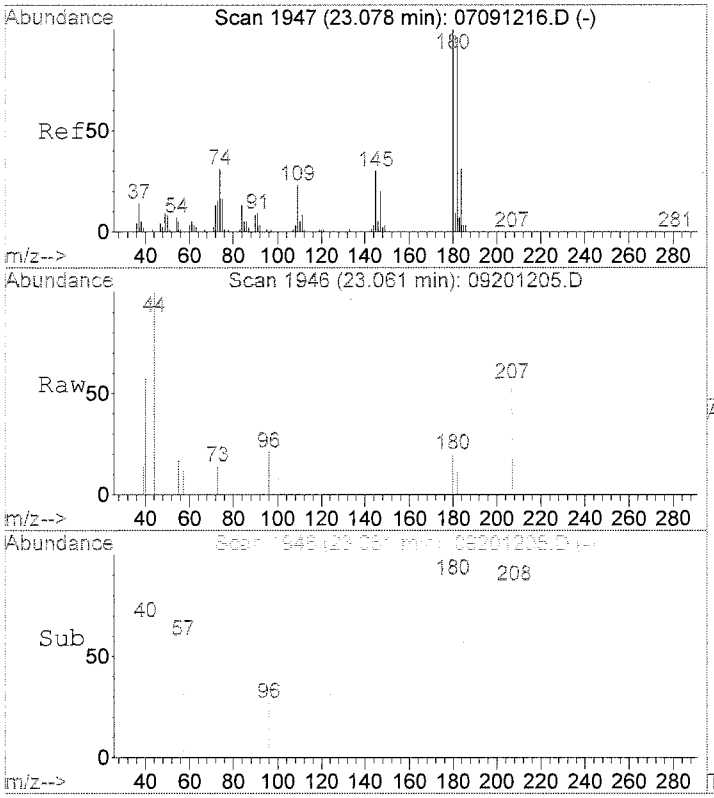


#84
Napthalene
Concen: 1.01 ug/L
RT: 22.80 min Scan# 1919
Delta R.T. -0.01 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion:128 Resp: 2792

Ion	Ratio	Lower	Upper
128	100		
127	7.7	10.8	16.2#

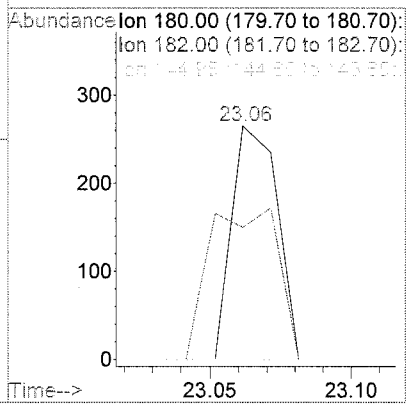




#86
1,2,3-Trichlorobenzene
Concen: 0.31 ug/L
RT: 23.06 min Scan# 1946
Delta R.T. -0.02 min
Lab File: 09201205.D
Acq: 20 Sep 2012 7:02 am

Tgt Ion:180 Resp: 296

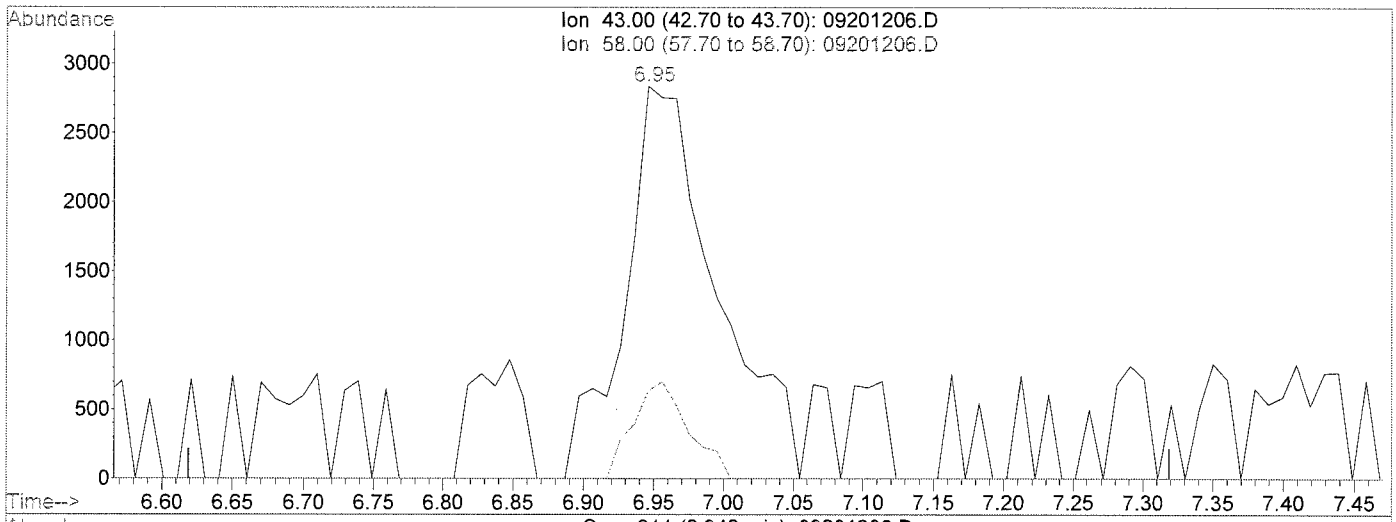
Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.6	114.8
145	0.0	25.5	38.3#

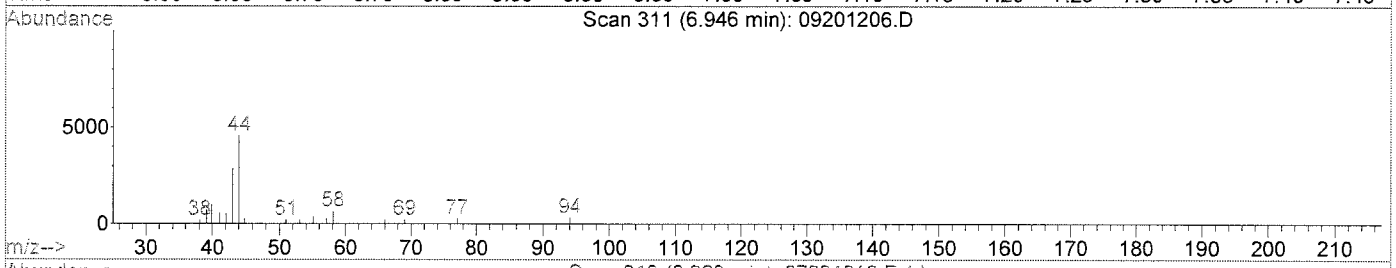


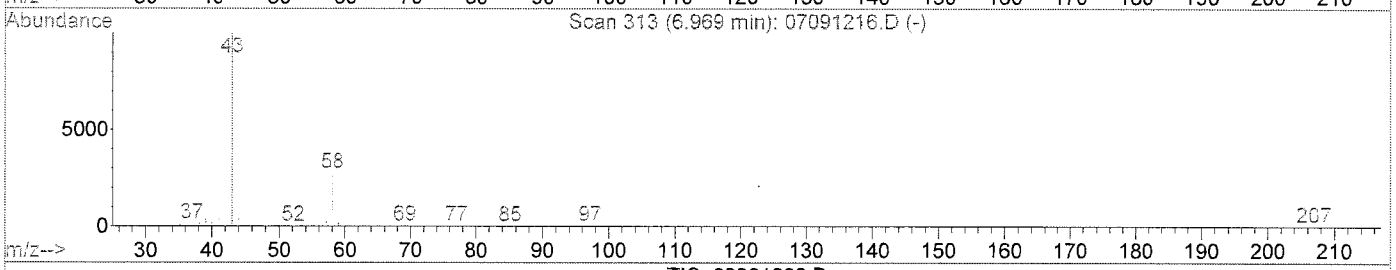
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201206.D Vial: 6
Acq On : 20 Sep 2012 7:34 am Operator: MNM
Sample : PVI1264-03RE1 Inst : GCMS4
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201206.D

(12) Acetone (T)

6.95min 7.31ug/L

response 12944

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	15.01#
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

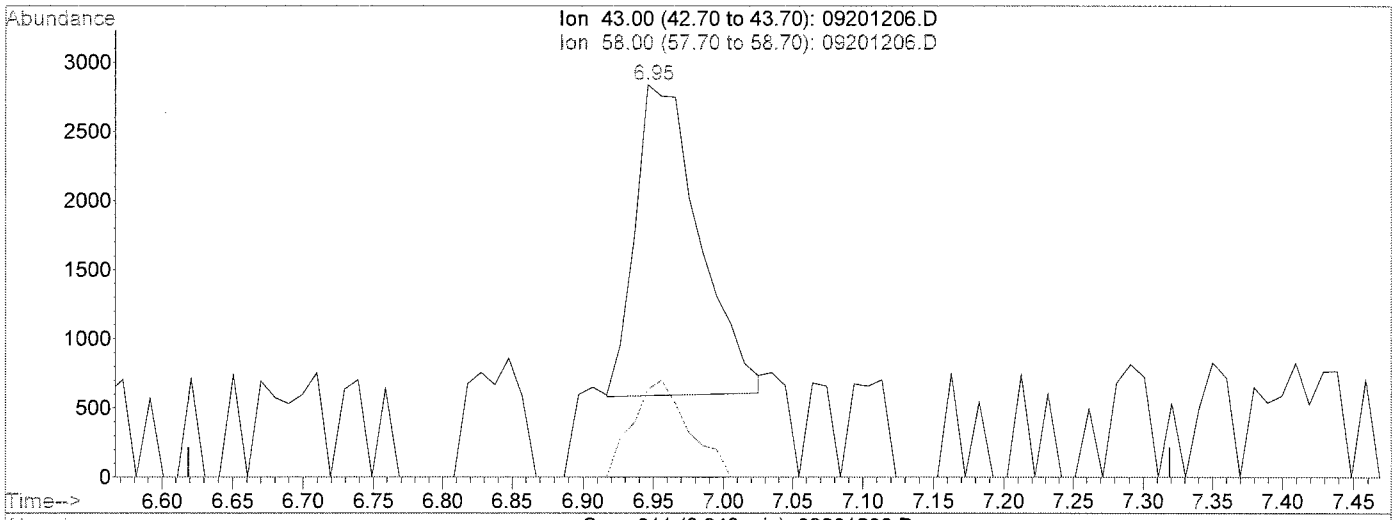
B

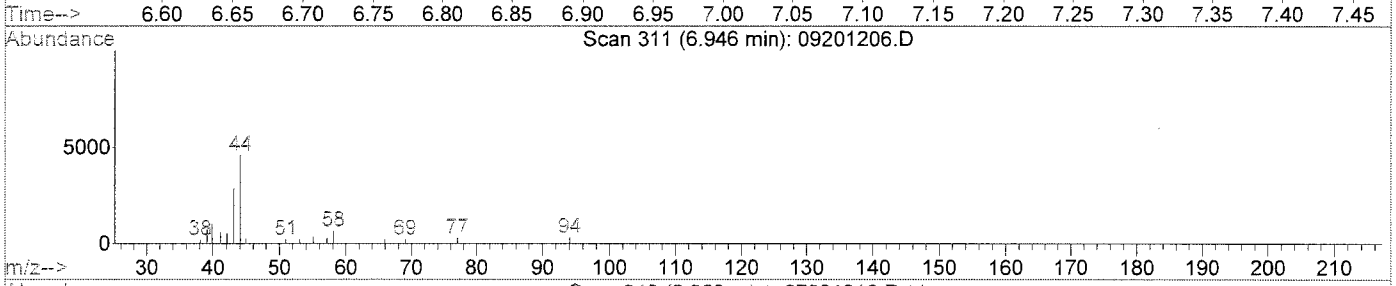
BV MM 9/21/12

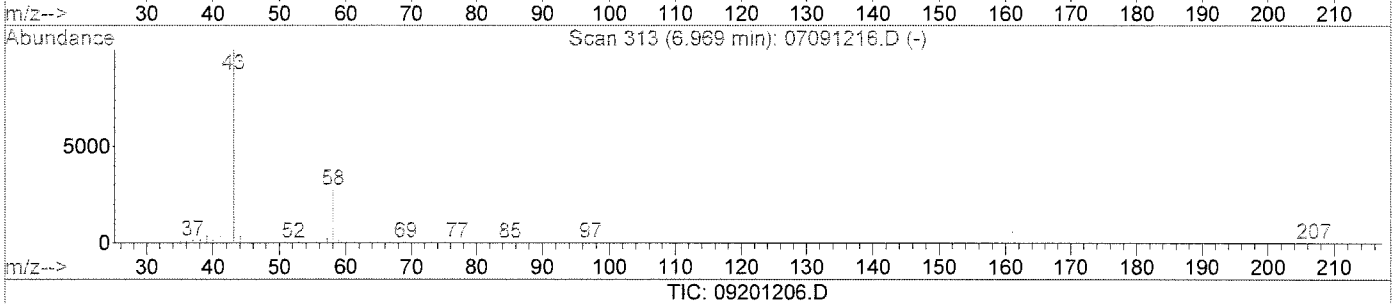
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201206.D Vial: 6
Acq On : 20 Sep 2012 7:34 am Operator: MNM
Sample : PVI1264-03RE1 Inst : GCMS4
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:36 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201206.D

(12) Acetone (T)

6.95min 4.04ug/L m

response 7154

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	27.16
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

A
MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201206.D Vial: 6
Acq On : 20 Sep 2012 7:34 am Operator: MNM
Sample : PVI1264-03RE1 Inst : GCMS4
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:36 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	46192	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	121129	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.80	114	211652	25.00 ug/L	-0.01
50) Chlorobenzene-d5	16.18	117	162598	25.00 ug/L	-0.02
63) 1,4-Dichlorobenzene-d4	19.64	152	56886	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.15	113	52122	25.39 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 101.56%	
48) Toluene-d8	14.21	98	244585	26.09 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 104.36%	
62) 4-Bromofluorobenzene	17.87	95	69879	24.03 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 96.12%	
Target Compounds					Qvalue
2) Ethanol	6.00	45	1368	37.14 ug/L #	35
3) tert-Butanol (TBA)	7.56	59	2168	7.41 ug/L #	56
9) Bromomethane	5.66	94	1251	0.48 ug/L #	2
12) Acetone	6.95	43	7154m	4.04 ug/L	
15) Methylene Chloride	7.72	84	417	Below Cal #	22
28) 2,2-Dichloropropane	10.06	77	91	Below Cal #	1
31) Tetrahydrofuran	10.43	72	2741	8.70 ug/L	77
34) (TAME) tert-Amyl methyl et	11.80	73	3032	0.38 ug/L #	17
45) 4-Methyl-2-Pentanone (MIBK	13.28	43	1453	0.41 ug/L #	40
51) 1,3-Dichloropropane	14.21	76	2511	0.64 ug/L #	72
52) 2-Hexanone	14.55	43	1828	0.67 ug/L #	35
82) 1,2-Dibromo-3-chloropropan	20.83	75	95	Below Cal #	8
84) Napthalene	22.78	128	502	0.17 ug/L #	66

MM 9/21/12

NSM

unt

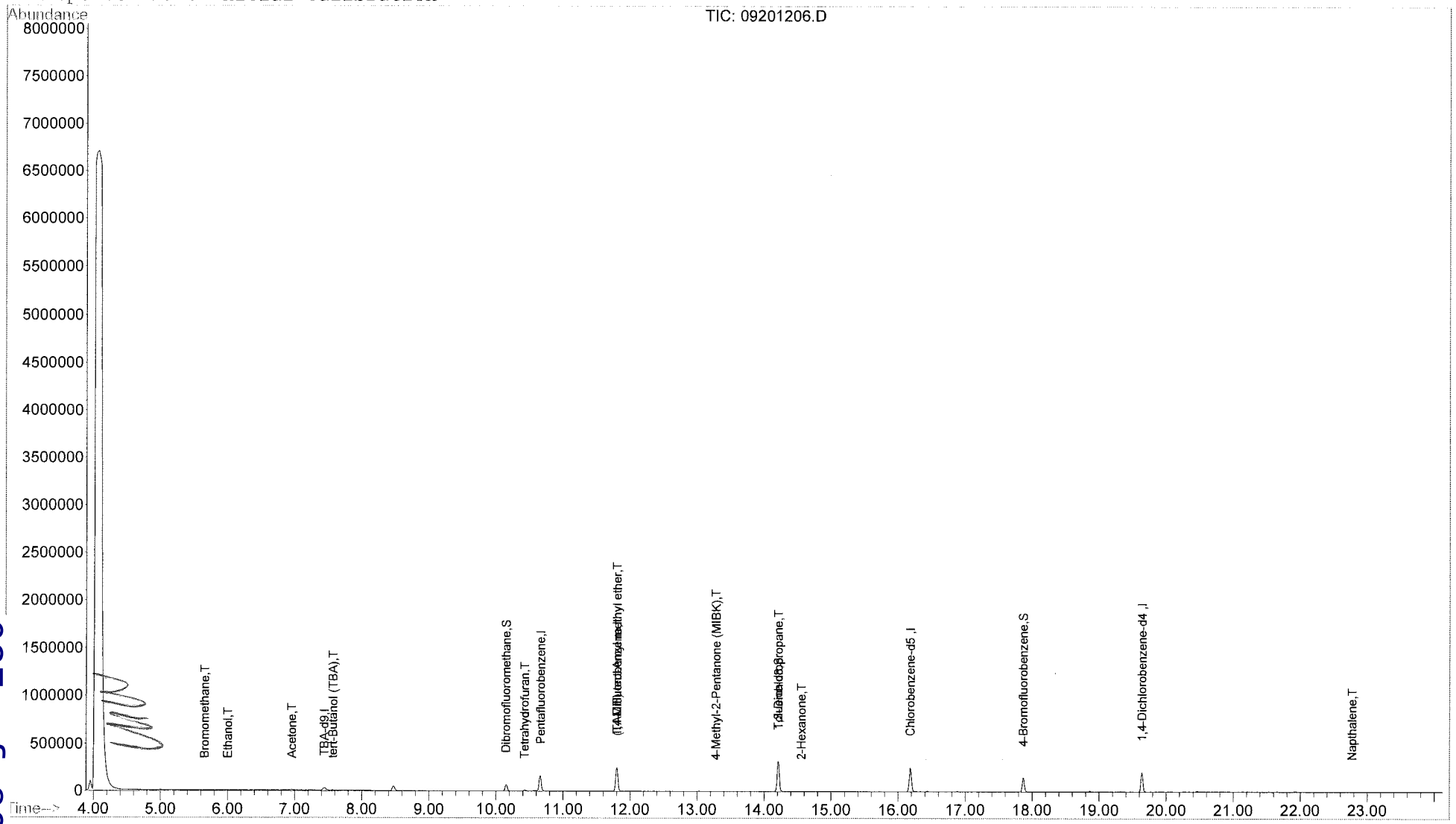
unt

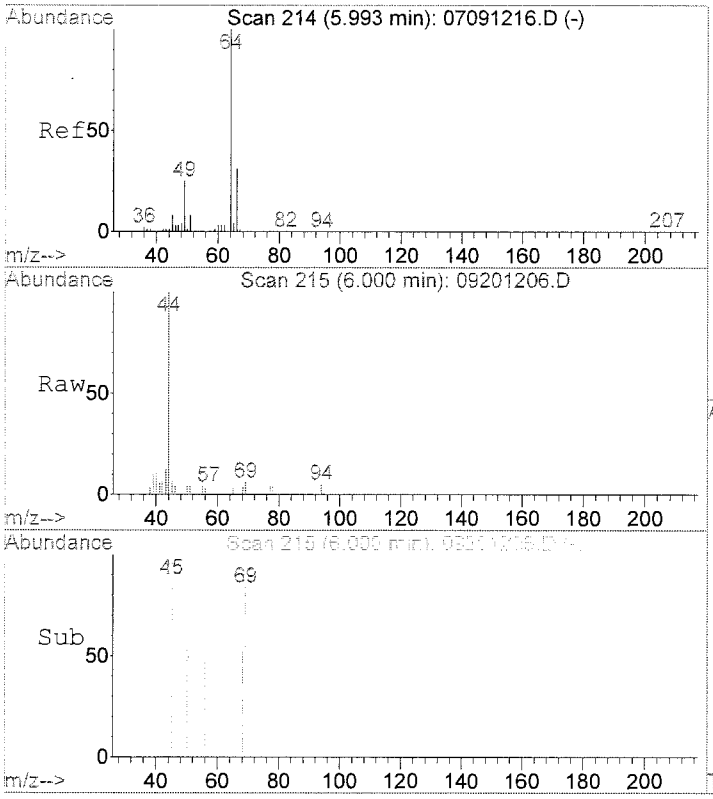
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201206.D Vial: 6
Acq On : 20 Sep 2012 7:34 am Operator: MNM
Sample : PVI1264-03RE1 Inst : GCMS4
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:36 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

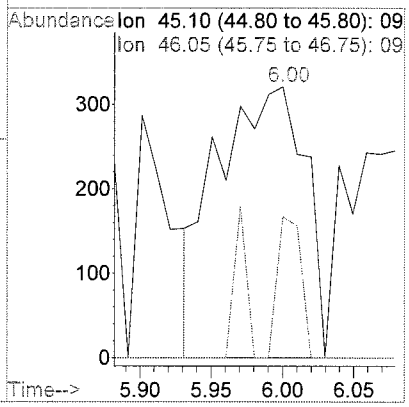


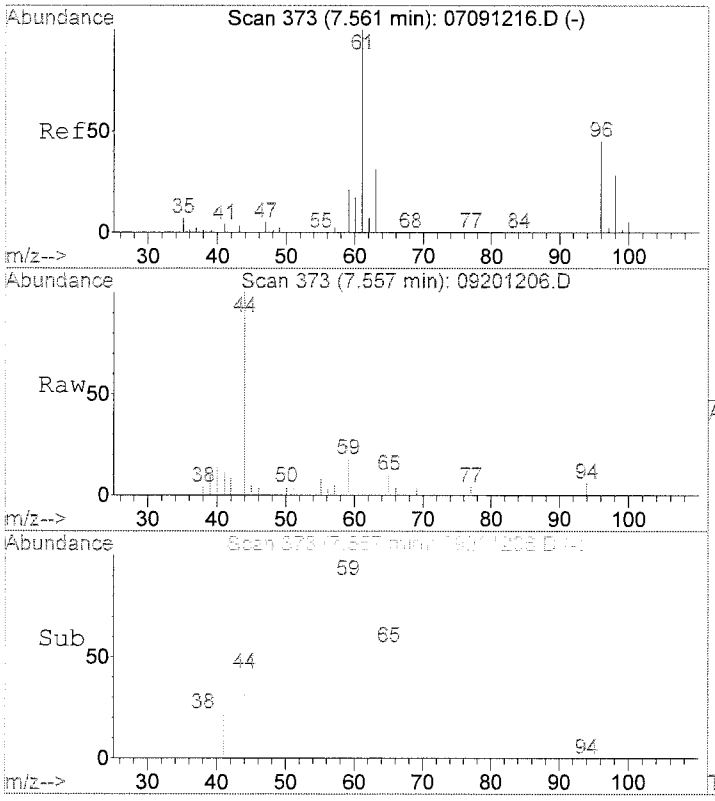


#2
Ethanol
Concen: 37.14 ug/L
RT: 6.00 min Scan# 215
Delta R.T. 0.01 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 45 Resp: 1368

Ion	Ratio	Lower	Upper
45	100		
46	14.0	45.9	85.9#

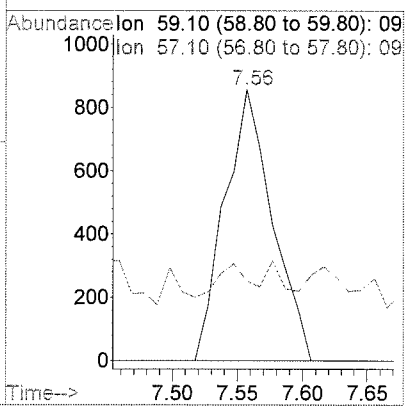


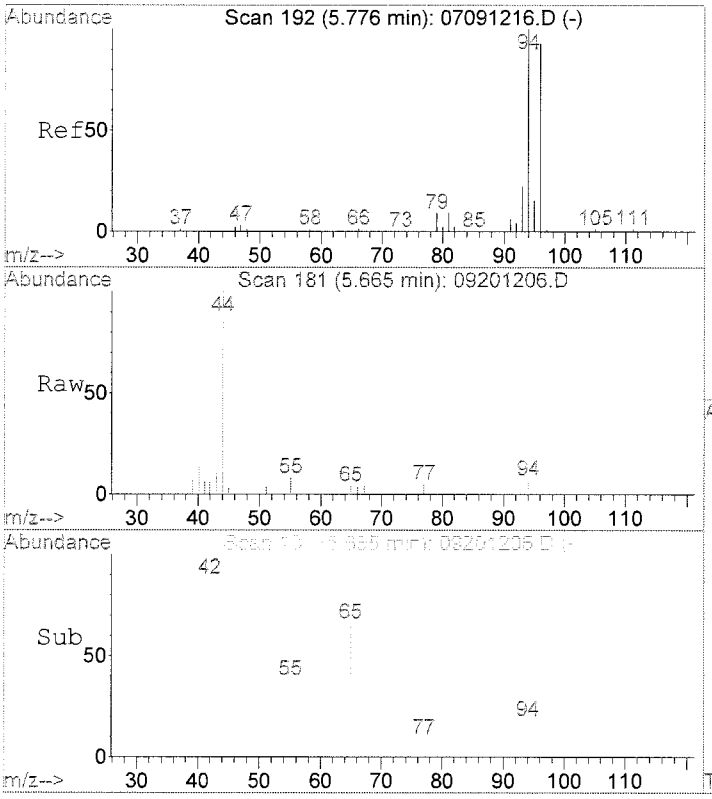


#3
tert-Butanol (TBA)
Concen: 7.41 ug/L
RT: 7.56 min Scan# 373
Delta R.T. -0.00 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 59 Resp: 2168

Ion	Ratio	Lower	Upper
59	100		
57	24.1	6.8	10.2#

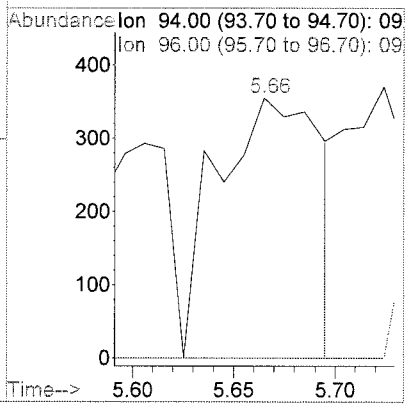


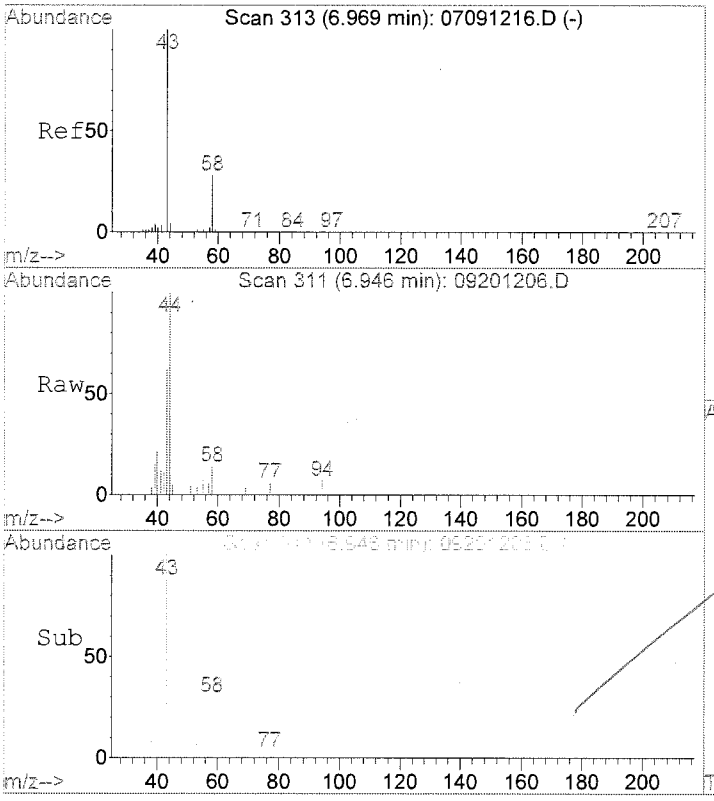


#9
Bromomethane
Concen: 0.48 ug/L
RT: 5.66 min Scan# 181
Delta R.T. -0.11 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 94 Resp: 1251

Ion	Ratio	Lower	Upper
94	100		
96	0.0	76.8	115.2#

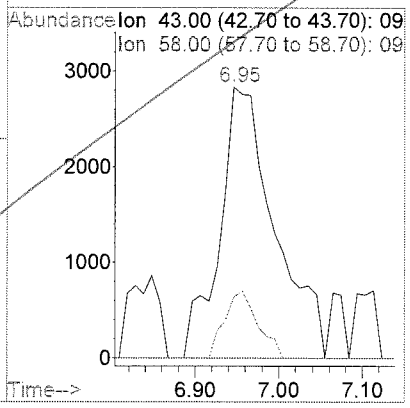


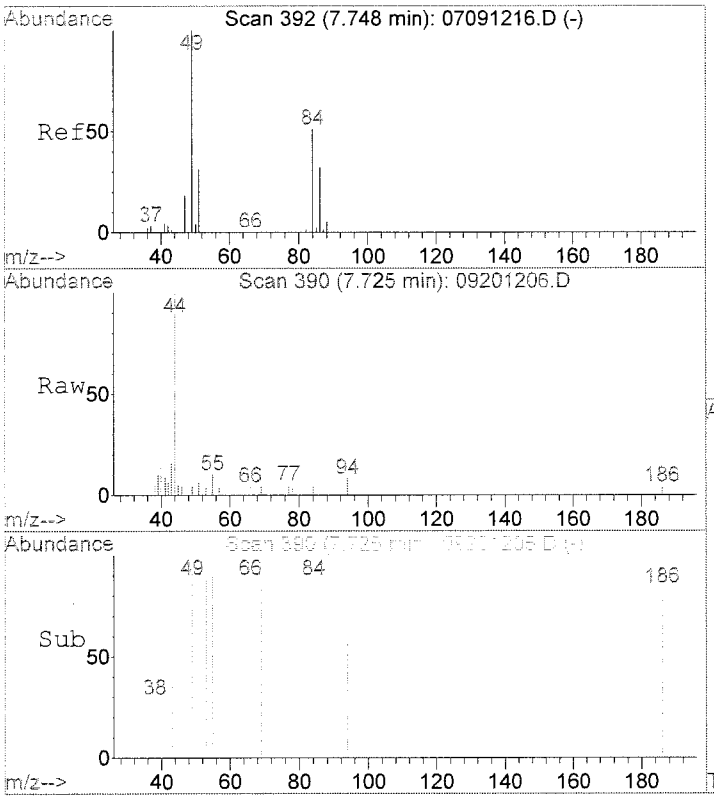


#12
Acetone
Concen: 7.31 ug/L
RT: 6.95 min Scan# 311
Delta R.T. -0.02 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 43 Resp: 12944

Ion	Ratio	Lower	Upper
43	100		
58	15.0	25.7	38.5#

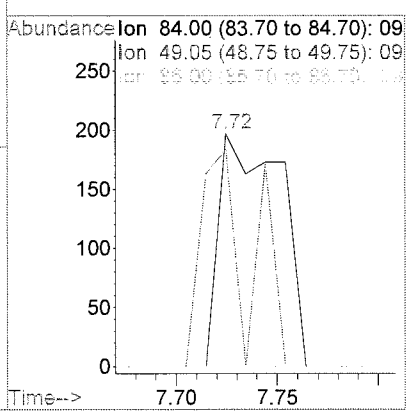


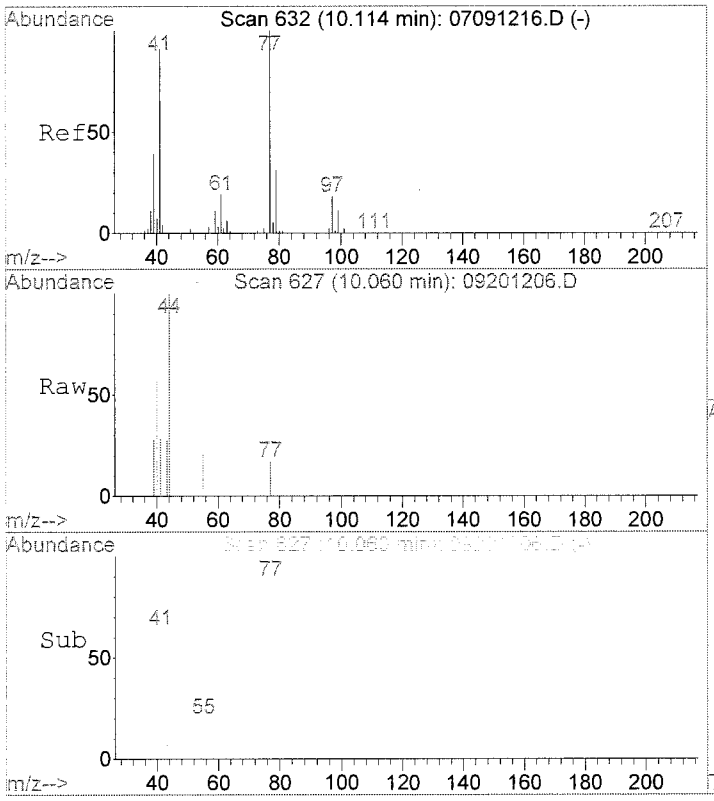


#15
Methylene Chloride
Concen: Below Cal
RT: 7.72 min Scan# 390
Delta R.T. -0.02 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 84 Resp: 417

Ion	Ratio	Lower	Upper
84	100		
49	73.6	147.9	221.9#
86	0.0	47.8	71.6#

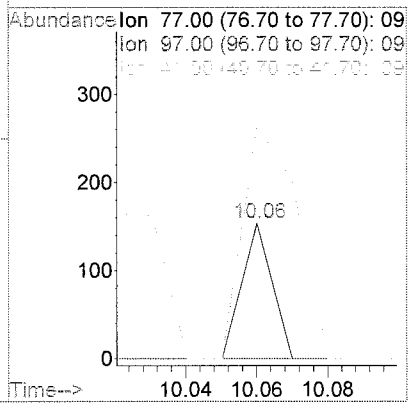


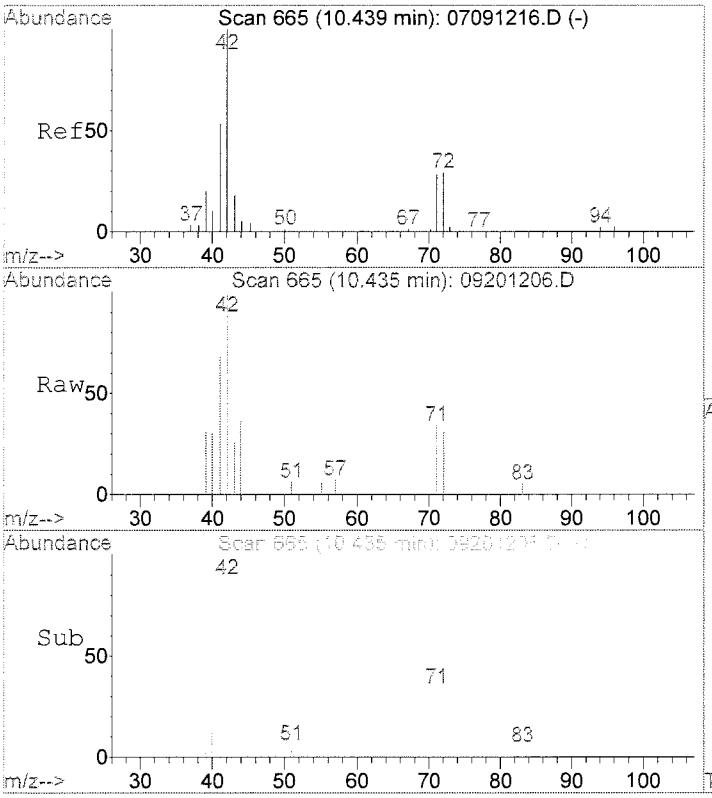


#28
2,2-Dichloropropane
Concen: Below Cal
RT: 10.06 min Scan# 627
Delta R.T. -0.05 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 77 Resp: 91

Ion	Ratio	Lower	Upper
77	100		
97	0.0	15.0	22.4#
41	303.3	72.3	108.5#

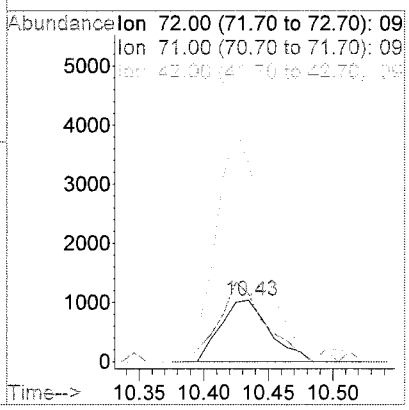


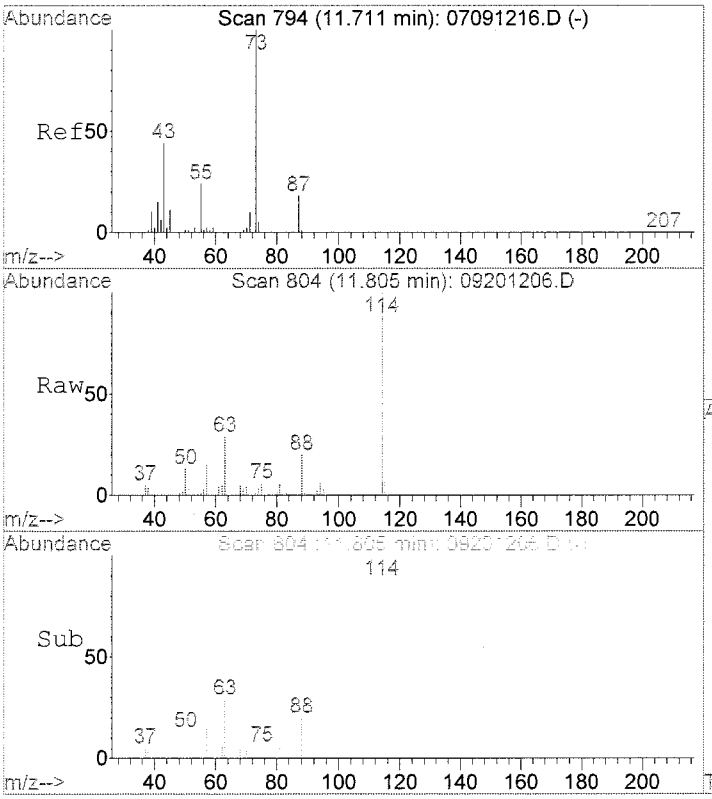


#31
Tetrahydrofuran
Concen: 8.70 ug/L
RT: 10.43 min Scan# 665
Delta R.T. -0.00 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 72 Resp: 2741

Ion	Ratio	Lower	Upper
72	100		
71	121.6	81.8	122.8
42	390.2	271.7	407.5

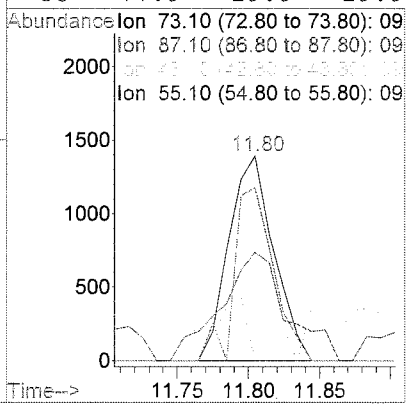


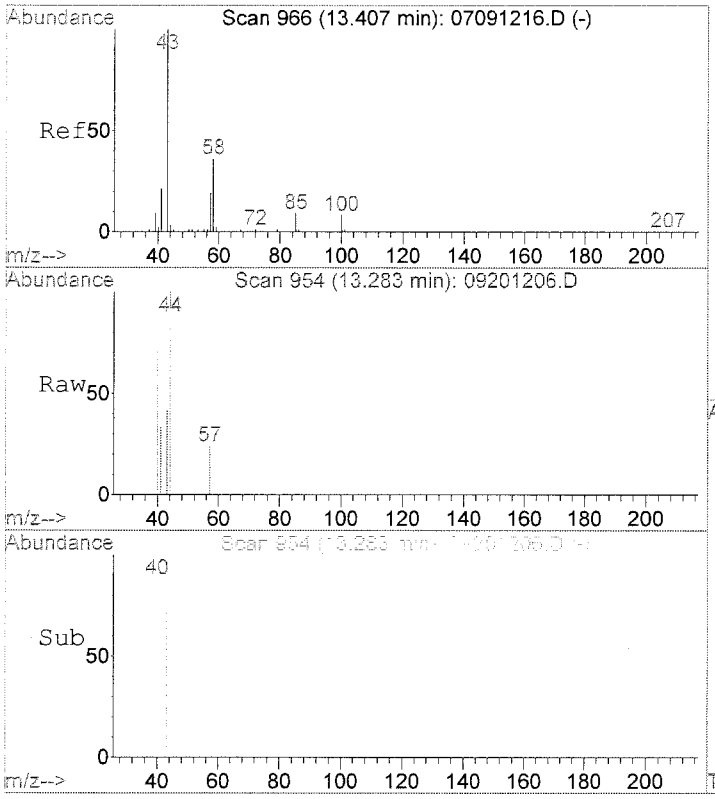


#34
(TAME) tert-Amyl methyl ether
Concen: 0.38 ug/L
RT: 11.80 min Scan# 804
Delta R.T. 0.09 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 73 Resp: 3032

Ion	Ratio	Lower	Upper
73	100		
87	74.2	14.6	21.8#
43	10.4	36.8	55.2#
55	77.9	19.9	29.9#

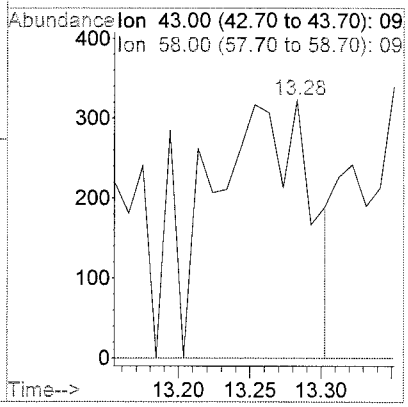




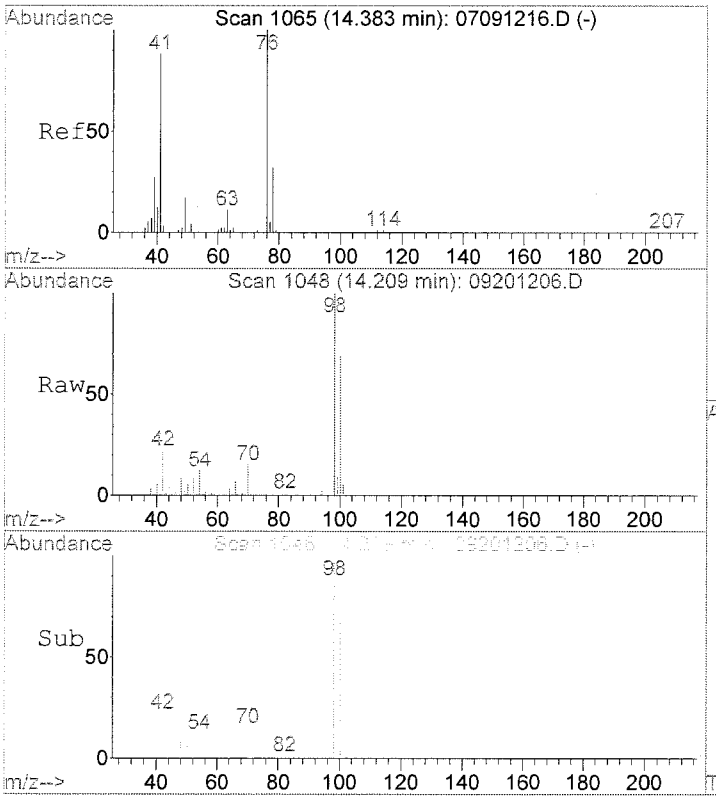
#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.41 ug/L
RT: 13.28 min Scan# 954
Delta R.T. -0.12 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 43 Resp: 1453

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	41.9#



T

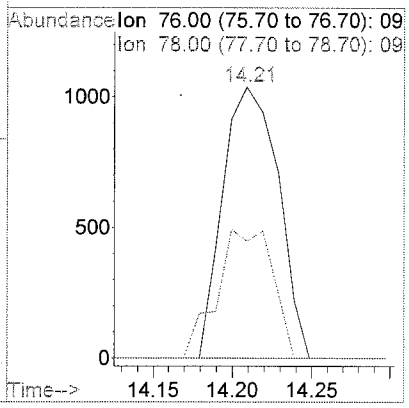


#51
1,3-Dichloropropane
Concen: 0.64 ug/L
RT: 14.21 min Scan# 1048
Delta R.T. -0.17 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

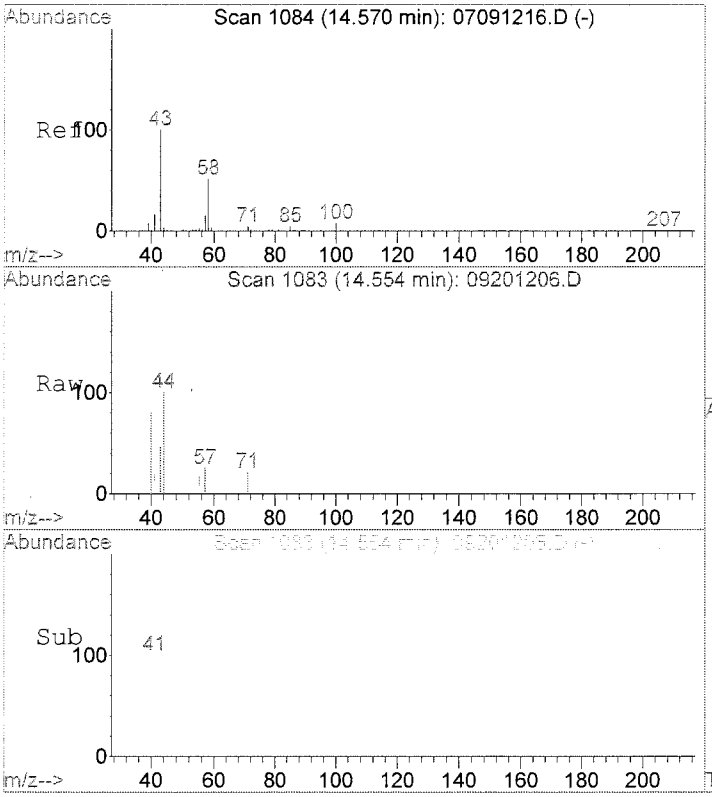
Tgt Ion: 76 Resp: 2511

Ion	Ratio	Lower	Upper
76	100		
78	47.6	25.6	38.4#

WRT



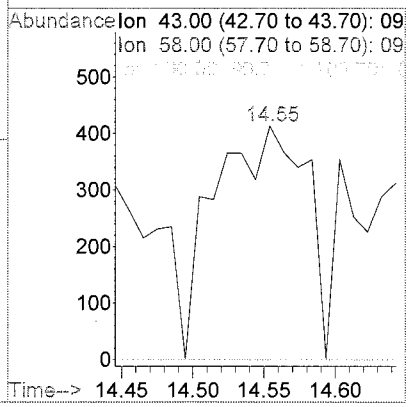
MM

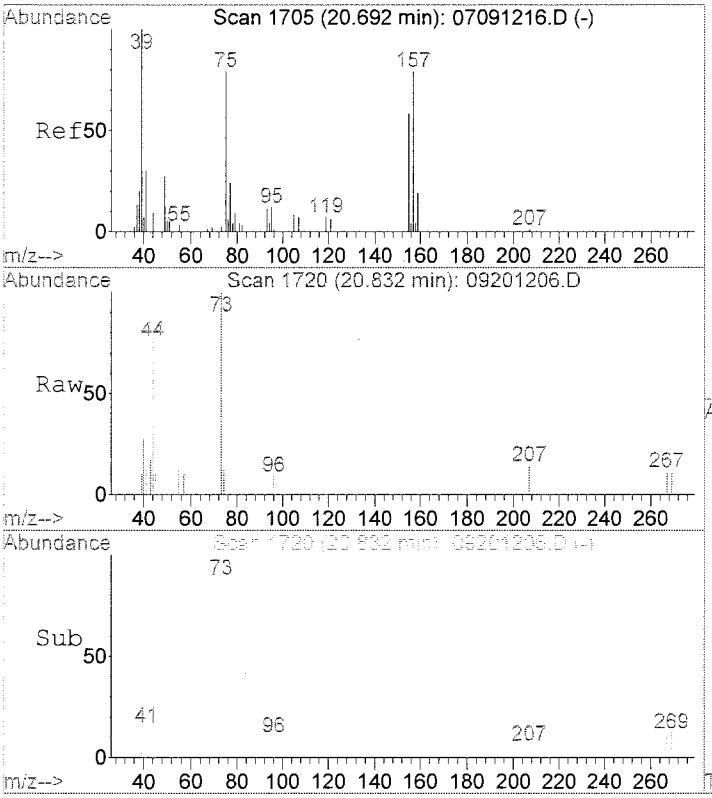


#52
2-Hexanone
Concen: 0.67 ug/L
RT: 14.55 min Scan# 1083
Delta R.T. -0.02 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 43 Resp: 1828

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.3	57.5#
100	0.0	5.1	7.7#

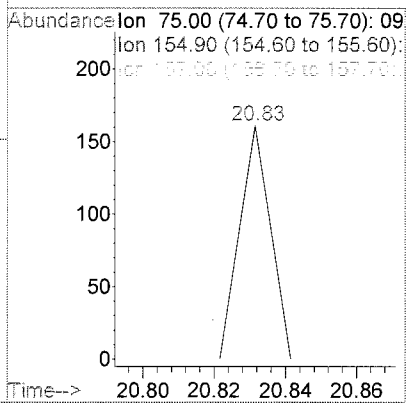


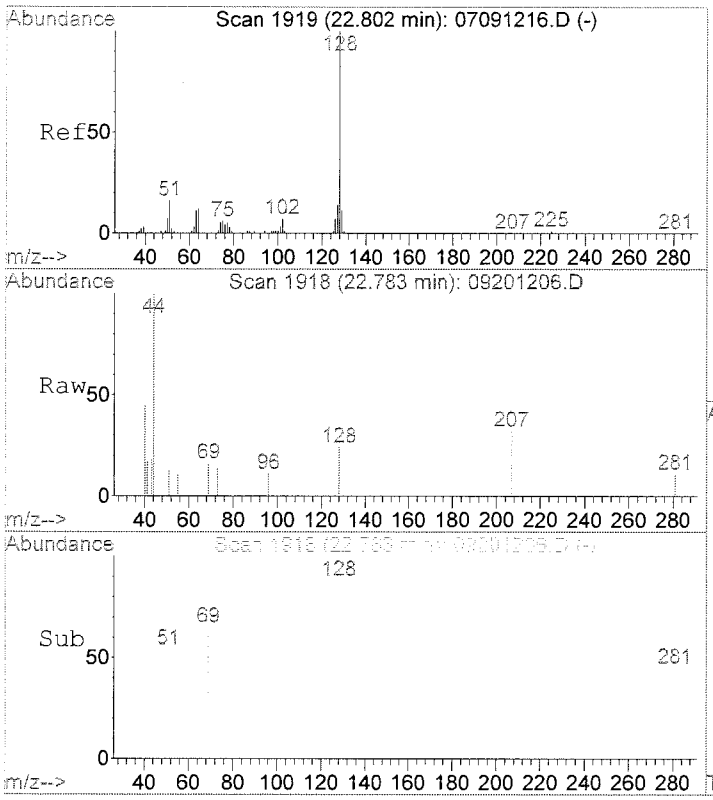


#82
1,2-Dibromo-3-chloropropane
Concen: Below Cal
RT: 20.83 min Scan# 1720
Delta R.T. 0.14 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion: 75 Resp: 95

Ion	Ratio	Lower	Upper
75	100		
155	0.0	56.3	84.5#
157	0.0	75.5	113.3#

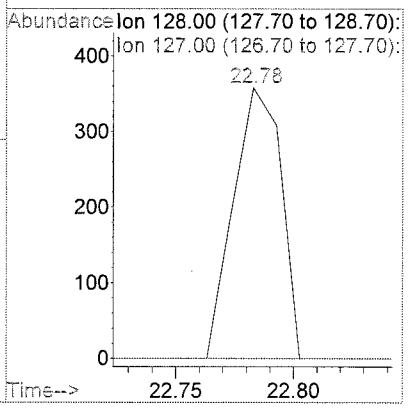




#84
Napthalene
Concen: 0.17 ug/L
RT: 22.78 min Scan# 1918
Delta R.T. -0.02 min
Lab File: 09201206.D
Acq: 20 Sep 2012 7:34 am

Tgt Ion:128 Resp: 502

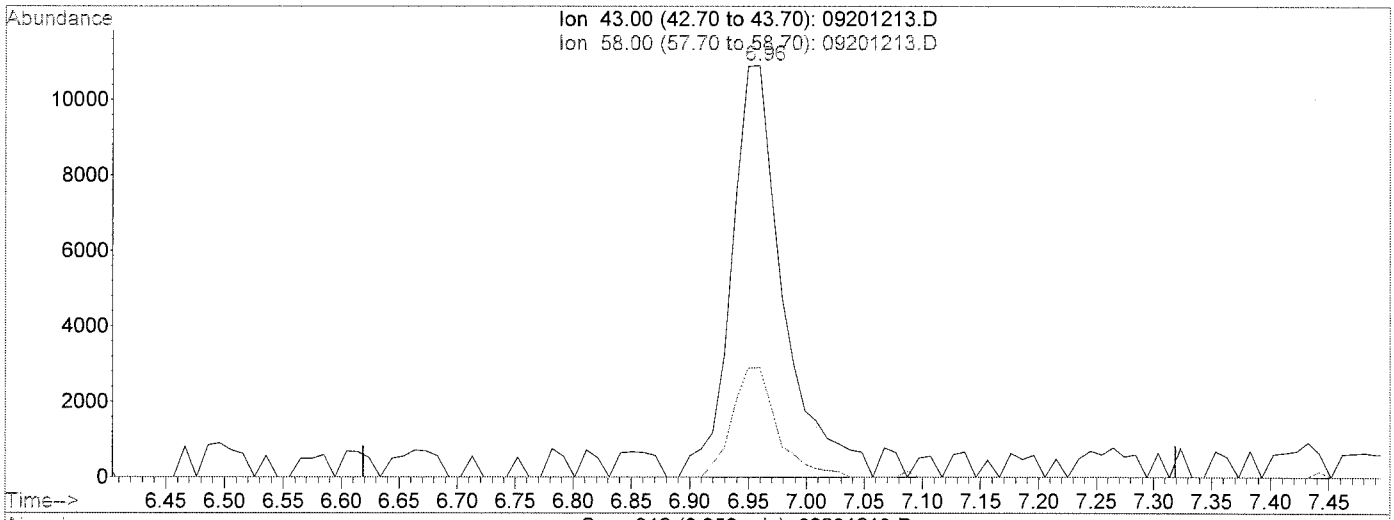
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.8	16.2#

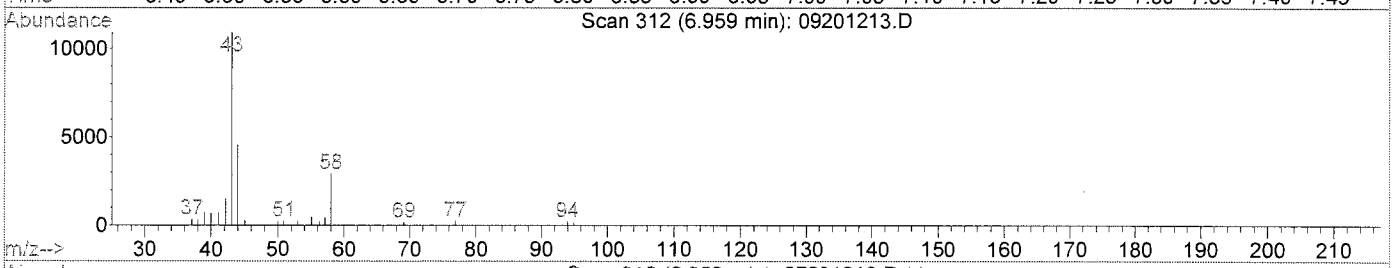


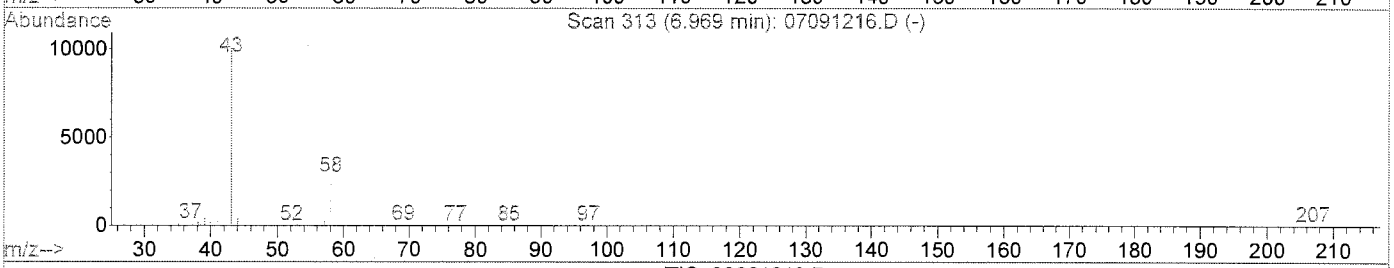
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201213.D Vial: 13
Acq On : 20 Sep 2012 11:20 am Operator: MNM
Sample : 12I0719-MS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201213.D

(12) Acetone (T)

6.96min 21.08ug/L

response 33730

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	23.17#
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

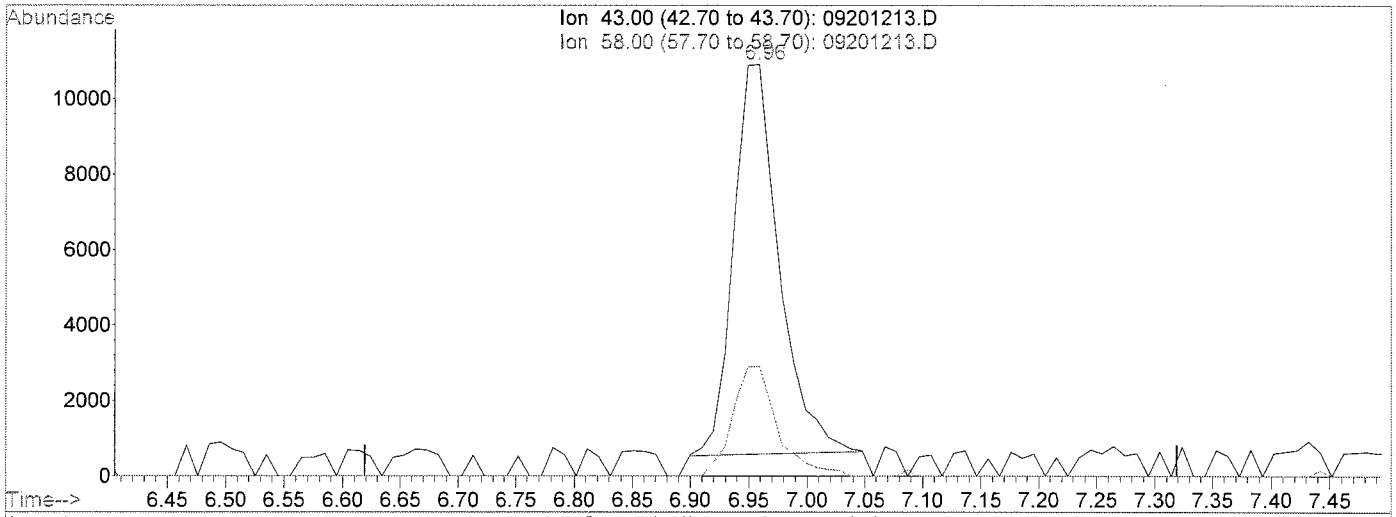
B

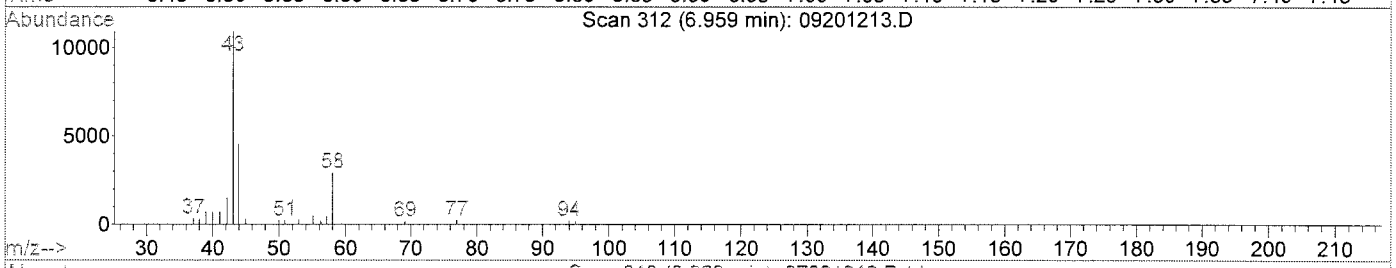
BL MM 9/21/12

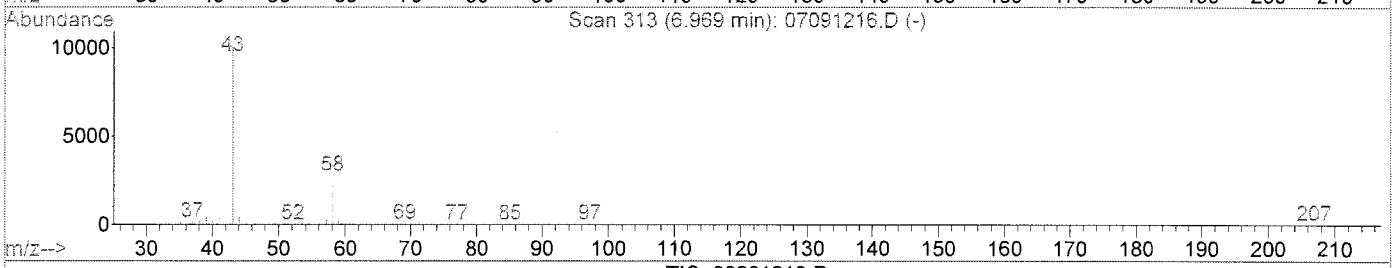
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201213.D Vial: 13
Acq On : 20 Sep 2012 11:20 am Operator: MNM
Sample : 12I0719-MS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201213.D

(12) Acetone (T)

6.96min 17.59ug/L m

response 28144

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	27.76
0.00	0.00	0.00
0.00	0.00	0.00

9/24/12

MNM 9/21/12

09201213.D 070912.M Fri Sep 21 11:50:06 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201213.D Vial: 13
Acq On : 20 Sep 2012 11:20 am Operator: MNM
Sample : 12I0719-MS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	56034	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	109421	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.81	114	197963	25.00 ug/L	-0.01
50) Chlorobenzene-d5	16.18	117	159352	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	57287	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.15	113	51541	27.80 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 111.20%	
48) Toluene-d8	14.21	98	228080	26.01 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 104.04%	
62) 4-Bromofluorobenzene	17.87	95	68226	23.94 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 95.76%	
Target Compounds					Qvalue
2) Ethanol	5.98	45	13745	307.64 ug/L #	70
3) tert-Butanol (TBA)	7.55	59	45995	129.66 ug/L #	89
5) Dichlorodifluoromethane	4.56	85	85884	23.95 ug/L	99
6) Chloromethane	4.86	50	196311	29.24 ug/L	97
7) Vinyl Chloride	5.19	62	150370	26.26 ug/L	99
8) 1,3-Butadiene	5.33	54	149841	34.63 ug/L	97
9) Bromomethane	5.78	94	65423	27.98 ug/L	97
10) Chloroethane	5.98	64	85584	24.89 ug/L	97
11) Trichlorofluoromethane	6.80	101	74212	29.00 ug/L	100
12) Acetone	6.96	43	28144m	17.59 ug/L	
13) Iodomethane	7.61	142	91873	31.45 ug/L	99
14) 1,1-Dichloroethene	7.54	96	72762	26.44 ug/L	100
15) Methylene Chloride	7.74	84	72122	26.55 ug/L	97
16) Freon 113	7.82	101	71490	27.95 ug/L	97
17) Carbon disulfide	8.07	76	308378	27.94 ug/L	96
18) trans-1,2-Dichloroethene	8.64	96	81388	27.86 ug/L	97
19) MTBE	8.78	73	171287	27.30 ug/L	97
20) 1,1-Dichloroethane	8.97	63	177570	26.99 ug/L	99
21) Vinyl Acetate	9.13	43	220794	31.69 ug/L	99
22) n-Hexane	9.49	86	26066	24.49 ug/L	91
23) 2-Butanone (MEK)	9.52	72	7635	22.23 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.53	45	420202	28.46 ug/L #	60
25) cis-1,2-Dichloroethene	9.72	96	80232	29.05 ug/L	98
26) Bromochloromethane	9.94	128	23472	25.61 ug/L #	64
27) Chloroform	9.99	83	112727	26.57 ug/L	99
28) 2,2-Dichloropropane	10.10	77	97803	29.64 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	10.05	59	259080	27.14 ug/L	96
31) Tetrahydrofuran	10.43	72	10275	36.11 ug/L	96
32) 1,2-Dichloroethane	10.85	62	77160	28.98 ug/L	98
33) 1,1,1-Trichloroethane	10.99	97	78565	27.37 ug/L	98
34) (TAME) tert-Amyl methyl et	11.70	73	192506	26.96 ug/L	98
36) 1,1-Dichloropropene	11.23	75	113215	22.13 ug/L	99
37) Carbon Tetrachloride	11.47	117	55496	23.84 ug/L	98
38) Benzene	11.52	78	345673	25.94 ug/L	100
39) Dibromomethane	12.25	93	29646	25.51 ug/L	97
40) 1,2-Dichloropropane	12.30	63	92611	26.02 ug/L	98

MM 9/21/12

(#) = qualifier out of range (m) = manual integration
09201213.D 070912.M Fri Sep 21 11:50:11 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201213.D Vial: 13
Acq On : 20 Sep 2012 11:20 am Operator: MNM
Sample : 12I0719-MS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	12.35	95	71512	27.00 ug/L	98
42)	Bromodichloromethane	12.42	83	77749	25.97 ug/L	99
44)	cis-1,3-Dichloropropene	13.26	75	117920	26.19 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	13.39	43	86282	26.06 ug/L	97
46)	trans-1,3-Dichloropropene	13.83	75	89978	26.54 ug/L	99
47)	1,1,2-Trichloroethane	14.05	97	43535	27.66 ug/L	99
49)	Toluene	14.31	92	187717	26.78 ug/L	99
51)	1,3-Dichloropropane	14.37	76	97739	25.35 ug/L	98
52)	2-Hexanone	14.56	43	55752	20.85 ug/L	98
53)	Dibromochloromethane	14.74	129	38196	23.22 ug/L	99
54)	1,2-Dibromoethane	15.09	107	40593	25.64 ug/L	97
55)	Tetrachloroethene	15.31	164	44591	22.19 ug/L	97
56)	1,1,1,2-Tetrachloroethane	16.11	131	44244	24.80 ug/L	98
57)	Chlorobenzene	16.23	112	155955	24.36 ug/L	96
58)	Ethylbenzene	16.49	91	319888	23.53 ug/L	100
59)	m,p-Xylenes	16.75	106	112718	23.40 ug/L	99
60)	Styrene	17.21	104	167745	24.94 ug/L	98
61)	o-Xylene	17.31	106	106550	24.82 ug/L	97
64)	Bromoform	16.93	173	19570	22.30 ug/L	97
65)	1,1,2,2-Tetrachloroethane	17.30	83	61648	25.88 ug/L	96
66)	1,2,3-Trichloropropane	17.49	110	11152	23.55 ug/L	94
67)	trans-1,4-Dichloro-2-buten	17.51	53	17706	20.75 ug/L	97
68)	Isopropylbenzene	17.81	105	277759	25.97 ug/L	98
69)	Bromobenzene	18.17	156	46893	24.24 ug/L	92
70)	n-Propylbenzene	18.42	91	367556	24.30 ug/L	100
71)	2-Chlorotoluene	18.57	91	193888	24.16 ug/L	97
72)	4-Chlorotoluene	18.67	91	184803	24.01 ug/L	99
73)	1,3,5-Trimethylbenzene	18.81	105	201926	24.66 ug/L	98
74)	tert-Butylbenzene	19.20	119	167056	23.83 ug/L	97
75)	1,2,4-Trimethylbenzene	19.34	105	190550	24.30 ug/L	98
76)	sec-Butylbenzene	19.47	105	289303	23.94 ug/L	100
77)	1,3-Dichlorobenzene	19.59	146	90339	24.09 ug/L	98
78)	1,4-Dichlorobenzene	19.67	146	89813	24.77 ug/L	99
79)	p-Isopropyltoluene	19.70	119	195019	22.62 ug/L	98
80)	1,2-Dichlorobenzene	20.12	146	75868	25.28 ug/L	95
81)	n-Butylbenzene	20.20	91	221567	23.47 ug/L	99
82)	1,2-Dibromo-3-chloropropan	20.68	75	6048	24.94 ug/L	94
83)	1,2,4-Trichlorobenzene	22.43	180	36497	26.45 ug/L	98
84)	Napthalene	22.79	128	81068	26.55 ug/L	99
85)	Hexachlorobutadiene	22.84	225	21057	27.40 ug/L	97
86)	1,2,3-Trichlorobenzene	23.06	180	28228	26.67 ug/L	98

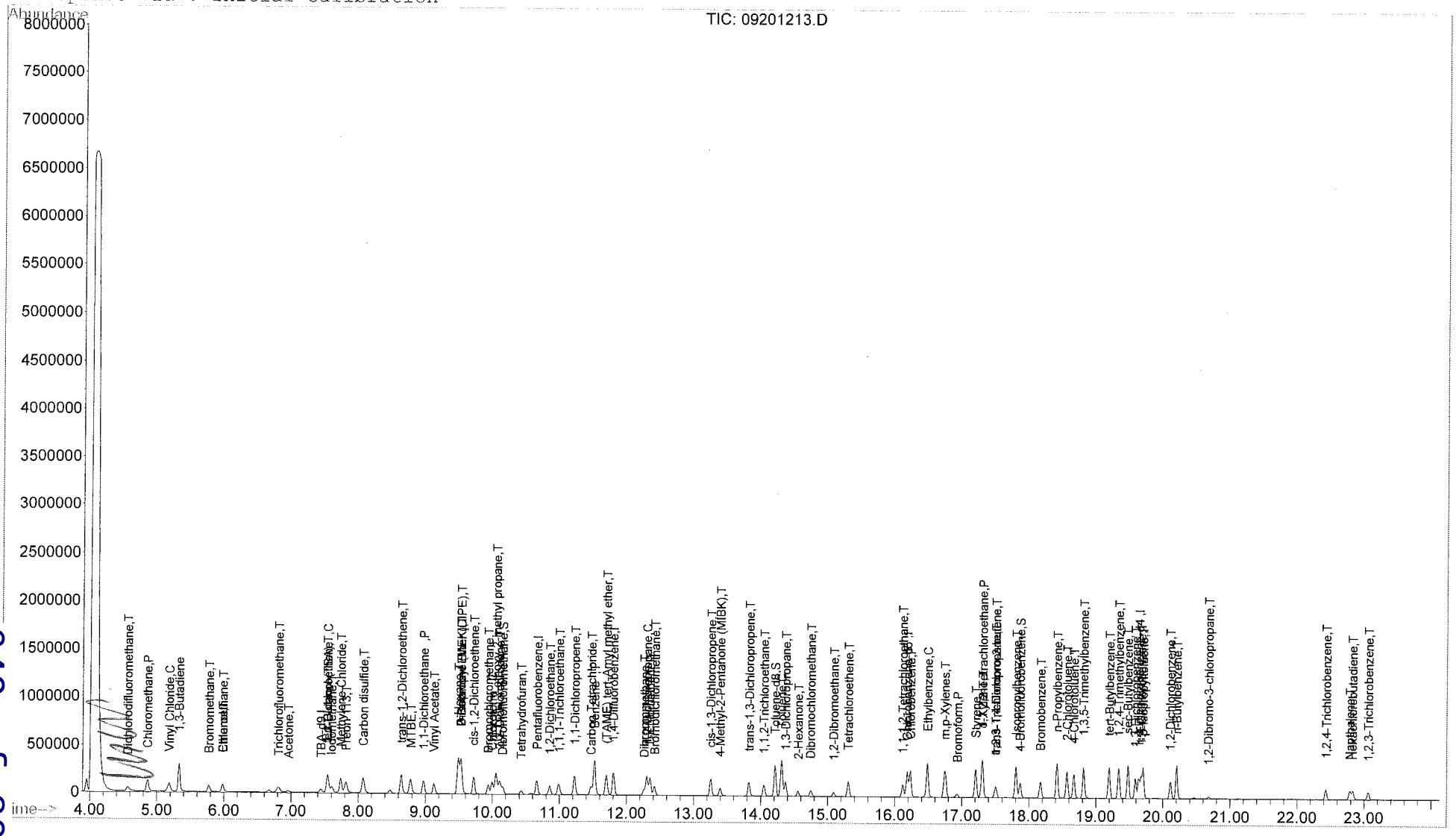
MM

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201213.D Vial: 13
Acq On : 20 Sep 2012 11:20 am Operator: MNM
Sample : 12I0719-MS1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

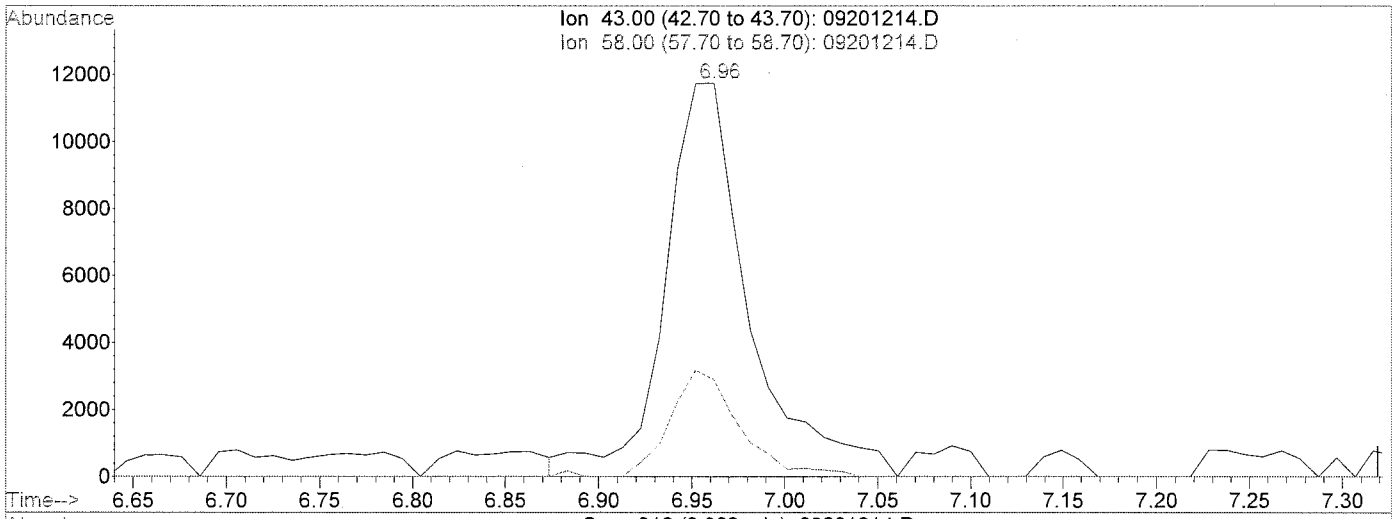
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

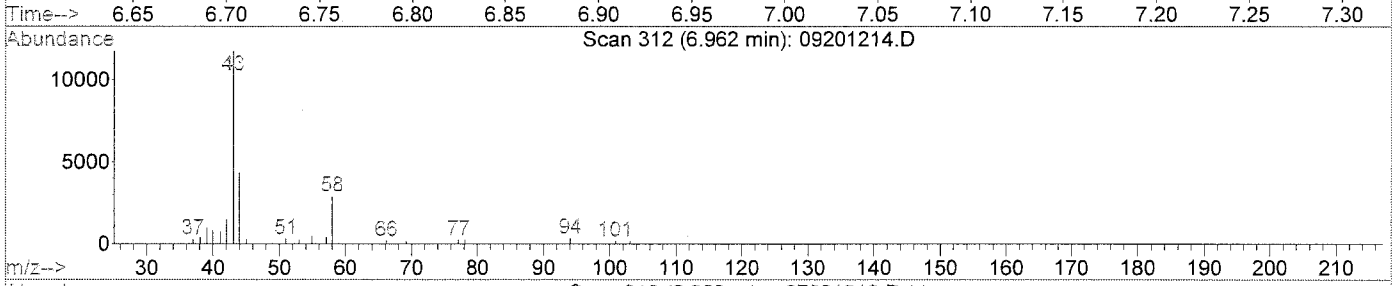


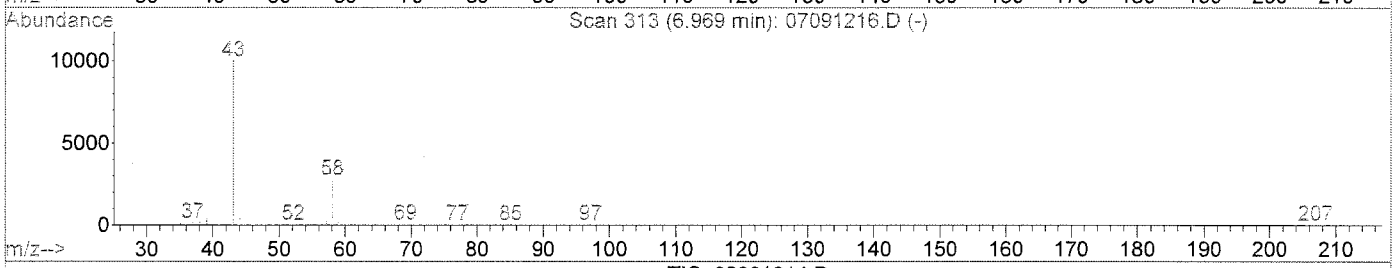
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201214.D Vial: 14
Acq On : 20 Sep 2012 11:53 am Operator: MNM
Sample : 12I0719-MSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201214.D

9/24/12

(12) Acetone (T)

6.96min 22.85ug/L

response 37333

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	22.15#
0.00	0.00	0.00
0.00	0.00	0.00

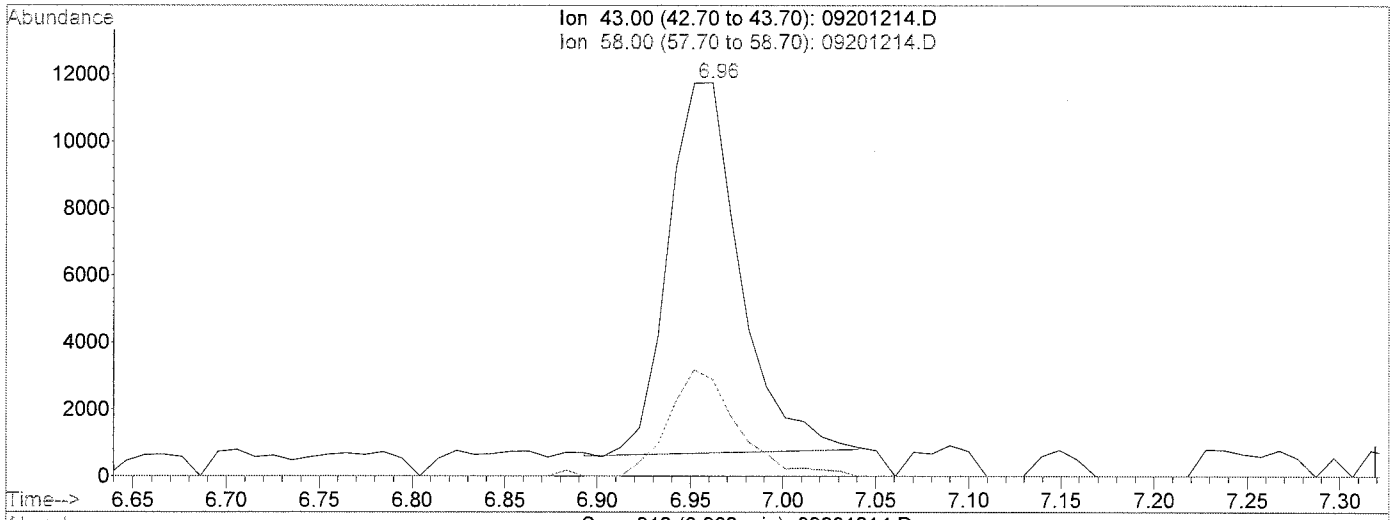
B
BL
mm 9/21/12

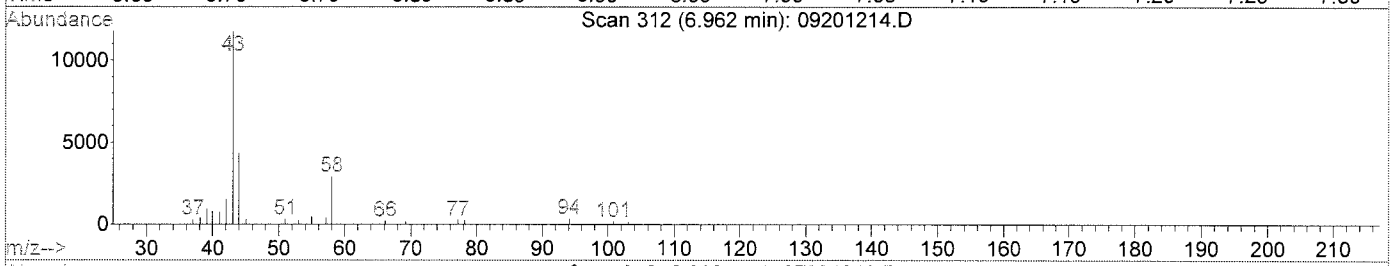
09201214.D 070912.M Fri Sep 21 11:50:23 2012

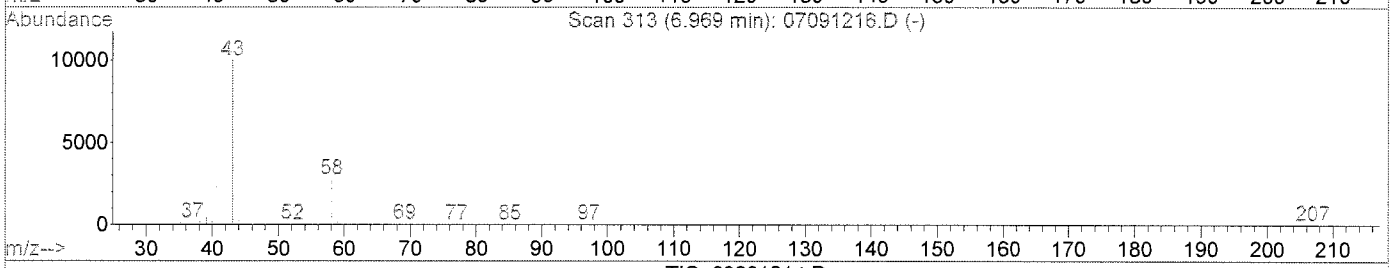
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201214.D Vial: 14
Acq On : 20 Sep 2012 11:53 am Operator: MNM
Sample : 12I0719-MSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration







TIC: 09201214.D

9/24/12

(12) Acetone (T)

6.96min 18.26ug/L m

response 29832

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	27.72
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 9/21/12

09201214.D 070912.M Fri Sep 21 11:50:27 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201214.D Vial: 14
Acq On : 20 Sep 2012 11:53 am Operator: MNM
Sample : 12I0719-MSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	57742	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	111755	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	11.80	114	198705	25.00 ug/L	-0.02
50) Chlorobenzene-d5	16.19	117	160559	25.00 ug/L	-0.01
63) 1,4-Dichlorobenzene-d4	19.64	152	57009	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	10.15	113	51556	27.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 108.88%	
48) Toluene-d8	14.22	98	230412	26.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.72%	
62) 4-Bromofluorobenzene	17.87	95	70338	24.49 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 97.96%	
Target Compounds					Qvalue
2) Ethanol	5.99	45	14517	315.31 ug/L #	64
3) tert-Butanol (TBA)	7.55	59	48282	132.08 ug/L #	90
5) Dichlorodifluoromethane	4.57	85	87387	23.86 ug/L	99
6) Chloromethane	4.86	50	199449	29.08 ug/L	98
7) Vinyl Chloride	5.19	62	151290	25.87 ug/L	99
8) 1,3-Butadiene	5.34	54	151849	34.36 ug/L	97
9) Bromomethane	5.78	94	65847	27.57 ug/L	96
10) Chloroethane	5.98	64	86354	24.59 ug/L	97
11) Trichlorofluoromethane	6.80	101	75662	28.95 ug/L	96
12) Acetone	6.96	43	29832m	18.26 ug/L	
13) Iodomethane	7.61	142	92144	30.89 ug/L	99
14) 1,1-Dichloroethene	7.54	96	73115	26.02 ug/L	99
15) Methylene Chloride	7.74	84	74088	26.71 ug/L	99
16) Freon 113	7.82	101	71998	27.56 ug/L	97
17) Carbon disulfide	8.08	76	310508	27.55 ug/L	99
18) trans-1,2-Dichloroethene	8.64	96	82504	27.65 ug/L	99
19) MTBE	8.78	73	175111	27.32 ug/L	99
20) 1,1-Dichloroethane	8.97	63	176783	26.31 ug/L	99
21) Vinyl Acetate	9.13	43	219157	30.80 ug/L	100
22) n-Hexane	9.49	86	26276	24.17 ug/L	89
23) 2-Butanone (MEK)	9.52	72	7338	20.92 ug/L #	1
24) Diisopropyl Ether (DIPE)	9.53	45	426398	28.27 ug/L #	60
25) cis-1,2-Dichloroethene	9.72	96	80057	28.37 ug/L	96
26) Bromochloromethane	9.94	128	25111	26.82 ug/L #	71
27) Chloroform	10.00	83	112633	26.00 ug/L	99
28) 2,2-Dichloropropane	10.11	77	101903	30.25 ug/L	93
29) (ETBE) 2-ethoxy-2-methyl p	10.06	59	258760	26.54 ug/L	96
31) Tetrahydrofuran	10.43	72	10385	35.74 ug/L	95
32) 1,2-Dichloroethane	10.85	62	79104	29.09 ug/L	97
33) 1,1,1-Trichloroethane	10.98	97	79357	27.06 ug/L	98
34) (TAME) tert-Amyl methyl et	11.70	73	197281	27.05 ug/L	97
36) 1,1-Dichloropropene	11.22	75	114600	22.31 ug/L	98
37) Carbon Tetrachloride	11.47	117	56613	24.23 ug/L	99
38) Benzene	11.51	78	351654	26.29 ug/L	99
39) Dibromomethane	12.25	93	30153	25.85 ug/L	99
40) 1,2-Dichloropropane	12.30	63	92631	25.93 ug/L	99

(#) = qualifier out of range (m) = manual integration

MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201214.D Vial: 14
Acq On : 20 Sep 2012 11:53 am Operator: MNM
Sample : 12I0719-MSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	12.35	95	71378	26.85 ug/L	98
42) Bromodichloromethane	12.41	83	77694	25.86 ug/L	97
44) cis-1,3-Dichloropropene	13.25	75	120684	26.70 ug/L	99
45) 4-Methyl-2-Pentanone (MIBK	13.40	43	88534	26.64 ug/L	100
46) trans-1,3-Dichloropropene	13.82	75	91268	26.82 ug/L	99
47) 1,1,2-Trichloroethane	14.05	97	44622	28.25 ug/L	100
49) Toluene	14.31	92	186026	26.44 ug/L	99
51) 1,3-Dichloropropane	14.37	76	98444	25.34 ug/L	99
52) 2-Hexanone	14.55	43	59259	21.99 ug/L	98
53) Dibromochloromethane	14.75	129	38908	23.48 ug/L	99
54) 1,2-Dibromoethane	15.08	107	40491	25.39 ug/L	98
55) Tetrachloroethene	15.31	164	44389	21.92 ug/L	98
56) 1,1,1,2-Tetrachloroethane	16.12	131	44411	24.70 ug/L	98
57) Chlorobenzene	16.24	112	157015	24.34 ug/L	98
58) Ethylbenzene	16.48	91	322386	23.54 ug/L	100
59) m,p-Xylenes	16.75	106	112615	23.20 ug/L	98
60) Styrene	17.20	104	163352	24.11 ug/L	99
61) o-Xylene	17.31	106	105527	24.40 ug/L	99
64) Bromoform	16.93	173	20171	23.10 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.29	83	62622	26.42 ug/L	98
66) 1,2,3-Trichloropropane	17.50	110	11666	24.76 ug/L	93
67) trans-1,4-Dichloro-2-buten	17.52	53	19125	22.52 ug/L	96
68) Isopropylbenzene	17.80	105	277793	26.10 ug/L	99
69) Bromobenzene	18.18	156	46389	24.10 ug/L	88
70) n-Propylbenzene	18.42	91	367085	24.39 ug/L	99
71) 2-Chlorotoluene	18.57	91	196056	24.55 ug/L	98
72) 4-Chlorotoluene	18.67	91	186960	24.41 ug/L	99
73) 1,3,5-Trimethylbenzene	18.82	105	202490	24.85 ug/L	98
74) tert-Butylbenzene	19.20	119	167154	23.96 ug/L	99
75) 1,2,4-Trimethylbenzene	19.34	105	190207	24.38 ug/L	99
76) sec-Butylbenzene	19.48	105	289456	24.07 ug/L	98
77) 1,3-Dichlorobenzene	19.59	146	91225	24.45 ug/L	97
78) 1,4-Dichlorobenzene	19.67	146	87912	24.36 ug/L	97
79) p-Isopropyltoluene	19.70	119	196673	22.93 ug/L	100
80) 1,2-Dichlorobenzene	20.11	146	75623	25.32 ug/L	96
81) n-Butylbenzene	20.21	91	221358	23.56 ug/L	99
82) 1,2-Dibromo-3-chloropropan	20.68	75	6543	27.32 ug/L	98
83) 1,2,4-Trichlorobenzene	22.43	180	36496	26.58 ug/L	100
84) Napthalene	22.79	128	85119	28.01 ug/L	100
85) Hexachlorobutadiene	22.84	225	20758	27.13 ug/L	94
86) 1,2,3-Trichlorobenzene	23.06	180	28695	27.24 ug/L	98

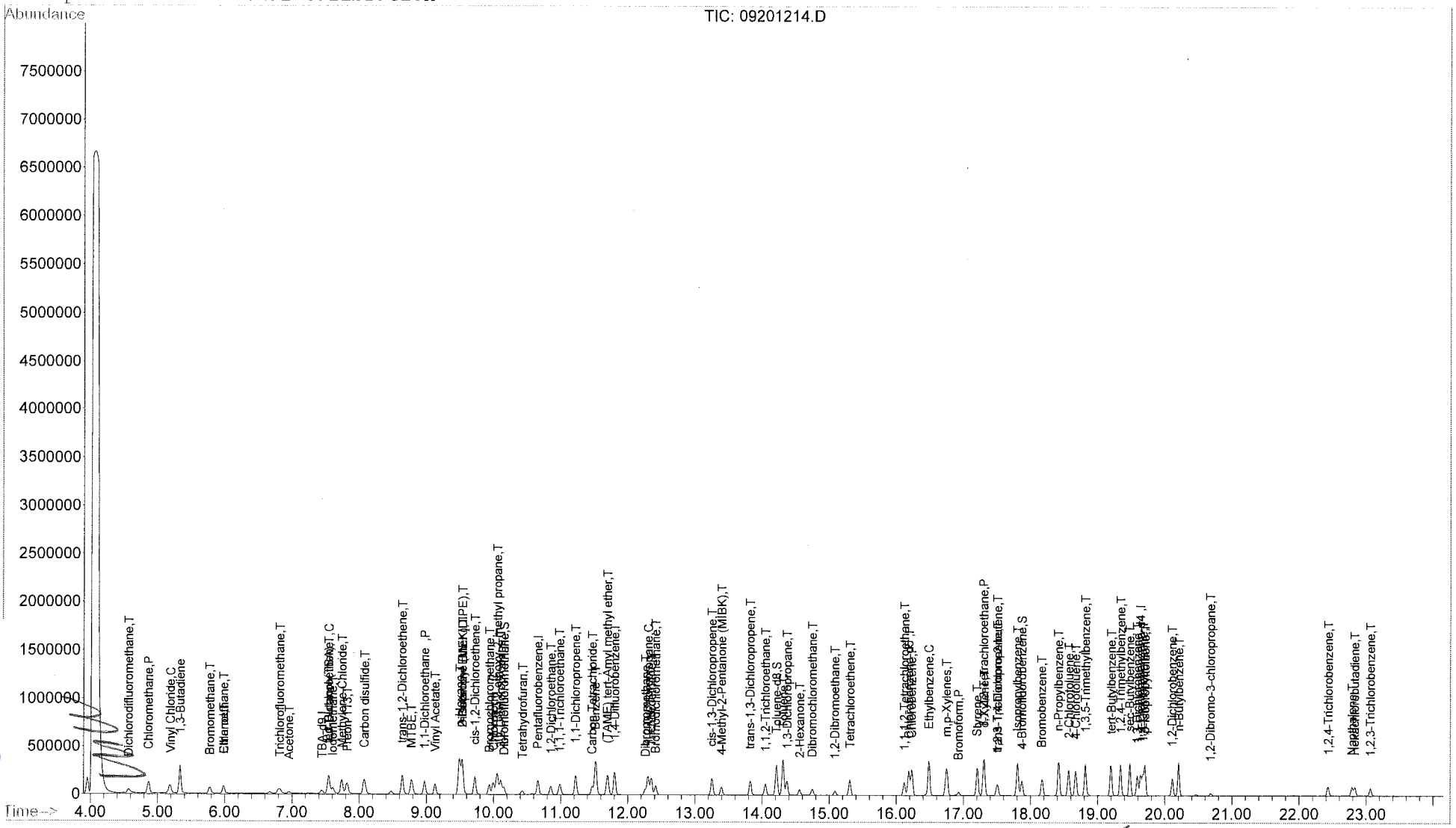
MM

(#) = qualifier out of range (m) = manual integration
09201214.D 070912.M Fri Sep 21 11:50:32 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201214.D Vial: 14
Acq On : 20 Sep 2012 11:53 am Operator: MNM
Sample : 12I0719-MSD1 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:50 2012 Quant Results File: 070912.RES

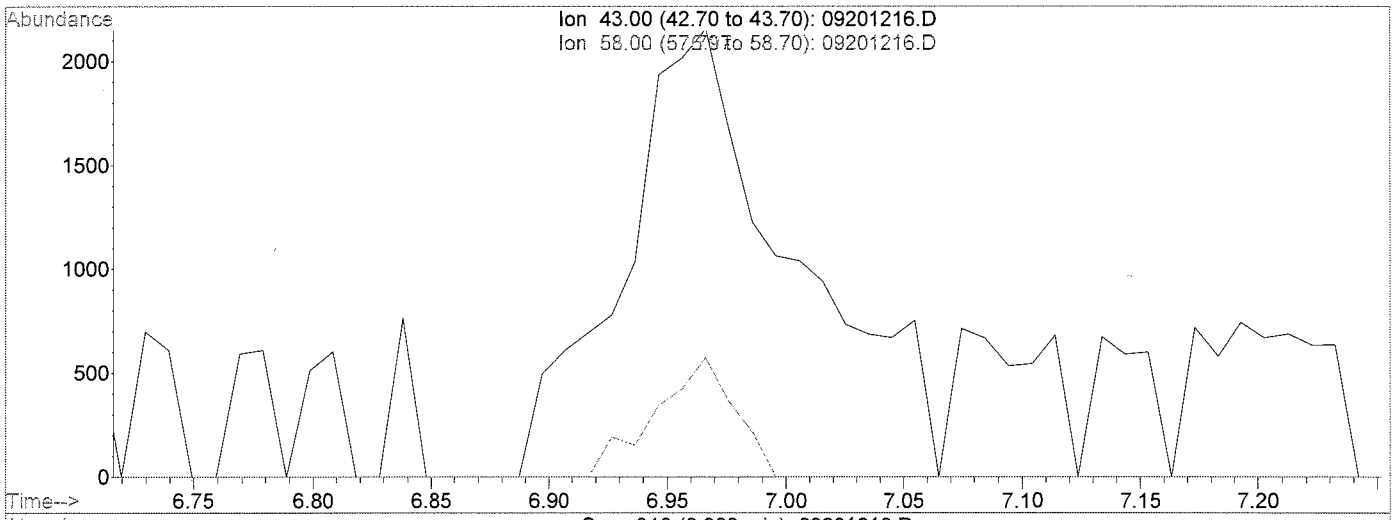
Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

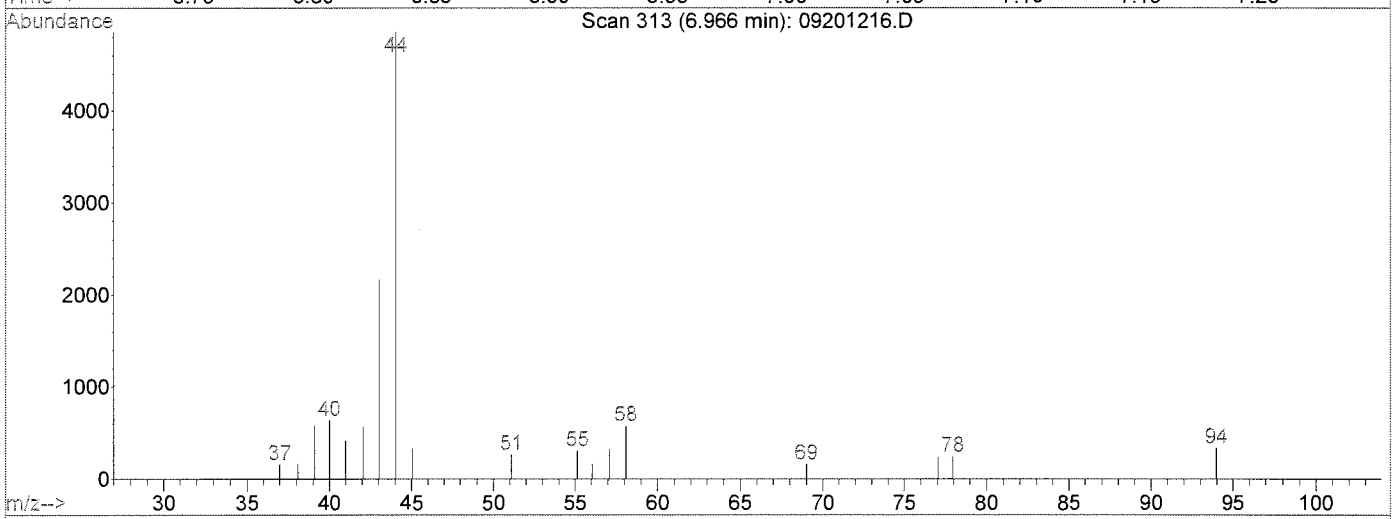


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201216.D Vial: 16
Acq On : 20 Sep 2012 12:57 pm Operator: MNM
Sample : PVI1717-10 Inst : GCMS4
Misc : 0 * Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201216.D

9/24/12

(12) Acetone (T)

6.97min 6.69ug/L

response 10945

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	12.24#
0.00	0.00	0.00
0.00	0.00	0.00

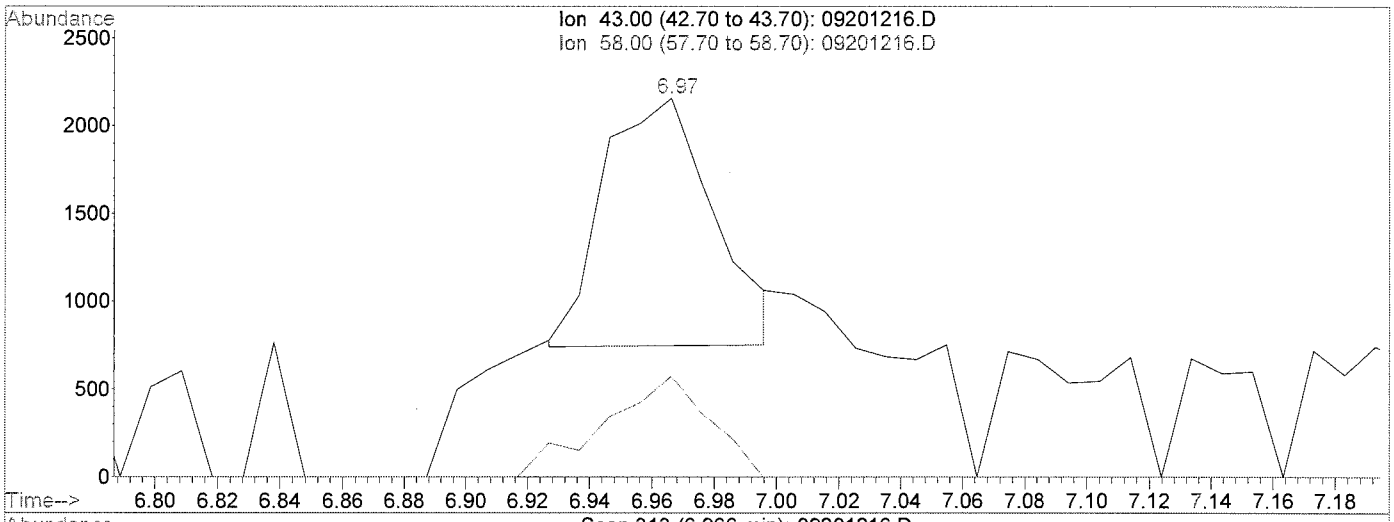
B
BL
MM 9/21/12

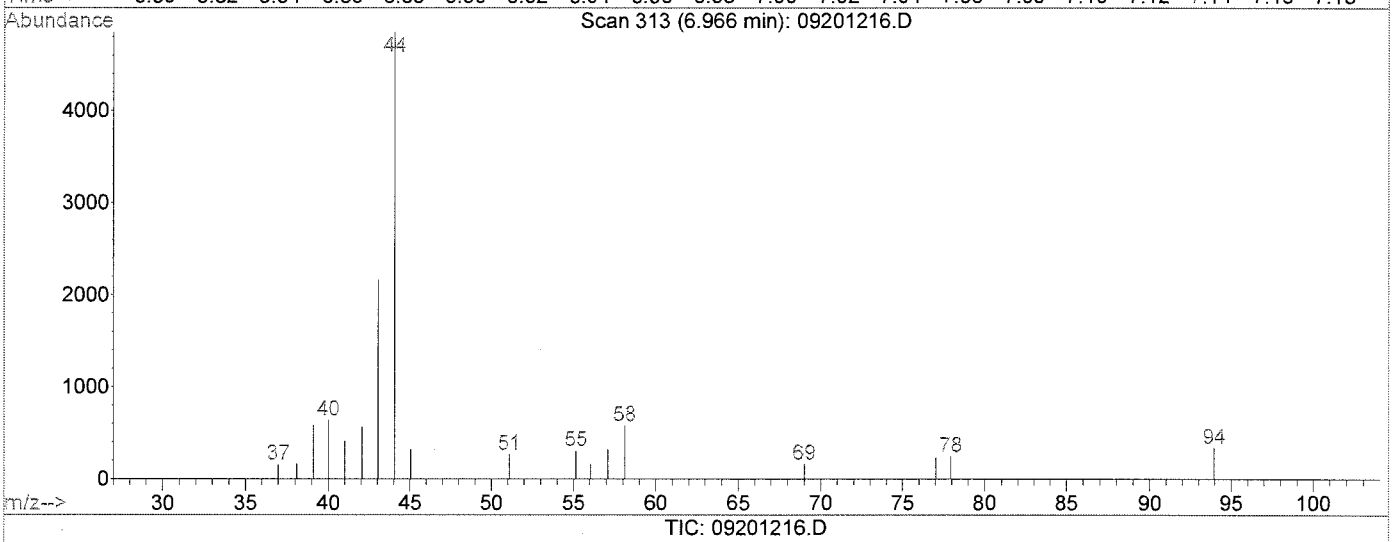
09201216.D 070912.M Thu Sep 20 15:22:40 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201216.D Vial: 16
Acq On : 20 Sep 2012 12:57 pm Operator: MNM
Sample : PVI1717-10 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Multiple Level Calibration





TIC: 09201216.D

(12) Acetone (T)

6.97min 2.12ug/L m

response 3474

Ion	Exp%	Act%
43.00	100	100
58.00	32.10	38.57#
0.00	0.00	0.00
0.00	0.00	0.00

A 9/24/12

MM 9/21/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201216.D Vial: 16
Acq On : 20 Sep 2012 12:57 pm Operator: MNM
Sample : PVI1717-10 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:22 2012 Quant Results File: 070912.RES

Quant Method : C:\HPCHEM\1...\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/24/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.44	65	50578	200.00 ug/L	-0.02
4) Pentafluorobenzene	10.66	168	111966	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	11.80	114	199703	25.00 ug/L	-0.01
50) Chlorobenzene-d5	16.19	117	155192	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	19.64	152	51705	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	10.16	113	49957	26.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.32%	
48) Toluene-d8	14.22	98	228464	25.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.28%	
62) 4-Bromofluorobenzene	17.88	95	63913	23.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.12%	

Target Compounds					Qvalue
2) Ethanol	5.99	45	1459	36.18 ug/L #	17
9) Bromomethane	5.92	94	808	0.34 ug/L #	2
12) Acetone	6.97	43	3474m	2.12 ug/L	
15) Methylene Chloride	7.76	84	92	Below Cal #	1
21) Vinyl Acetate	9.16	43	760	0.11 ug/L #	83
27) Chloroform	9.99	83	2825	0.65 ug/L	96
28) 2,2-Dichloropropane	10.14	77	99	Below Cal #	1
34) (TAME) tert-Amyl methyl et	11.80	73	2631	0.36 ug/L #	2
41) Trichloroethene	12.35	95	1270	0.48 ug/L #	83 J
45) 4-Methyl-2-Pentanone (MIBK	13.53	43	1008	0.30 ug/L #	40
51) 1,3-Dichloropropane	14.22	76	2458	0.65 ug/L #	68 WRT
52) 2-Hexanone	14.54	43	1121	0.43 ug/L #	35
55) Tetrachloroethene	15.30	164	1112	0.57 ug/L	81
84) Napthalene	22.79	128	617	0.22 ug/L #	66

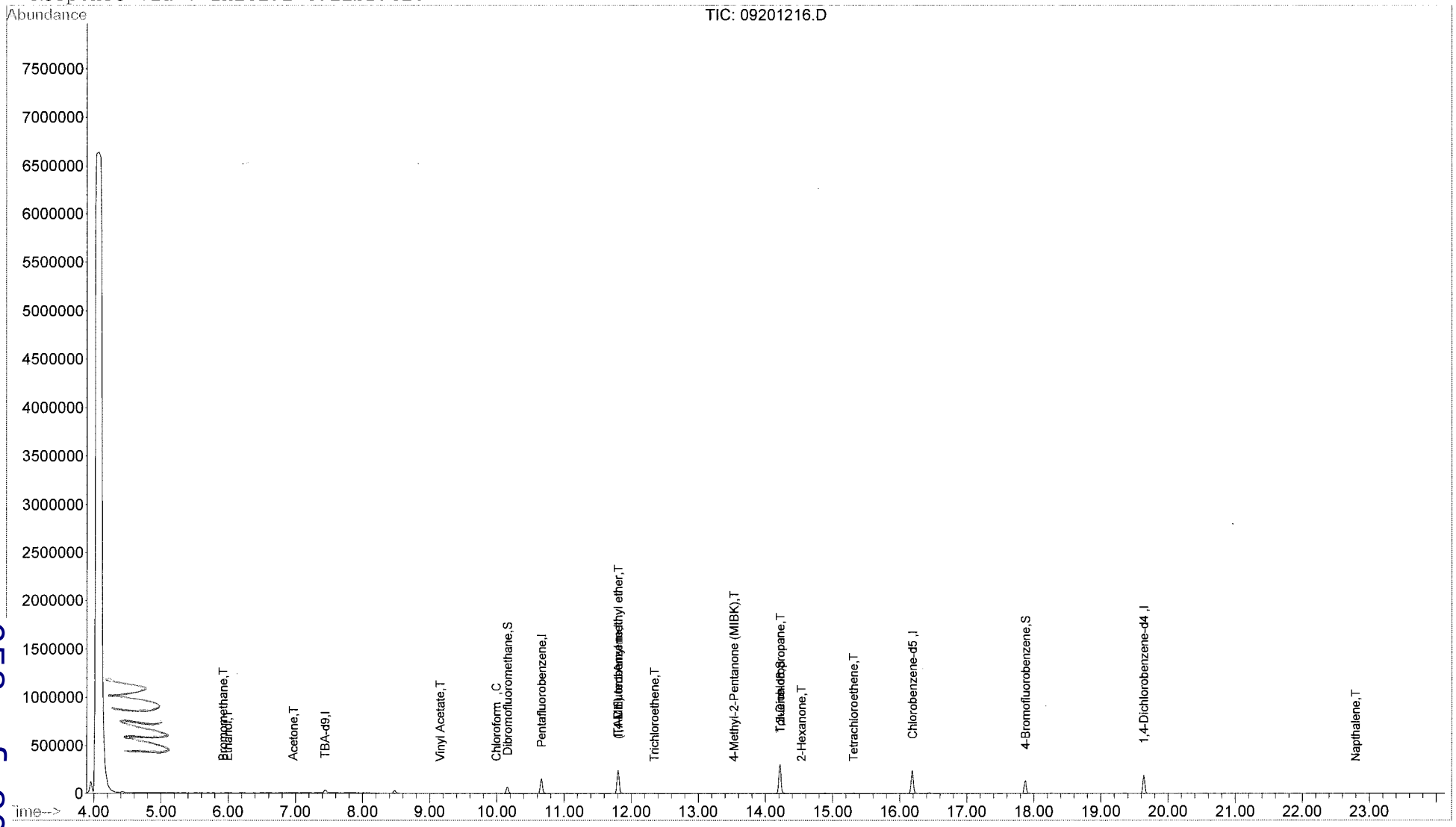
MM 9/21/12

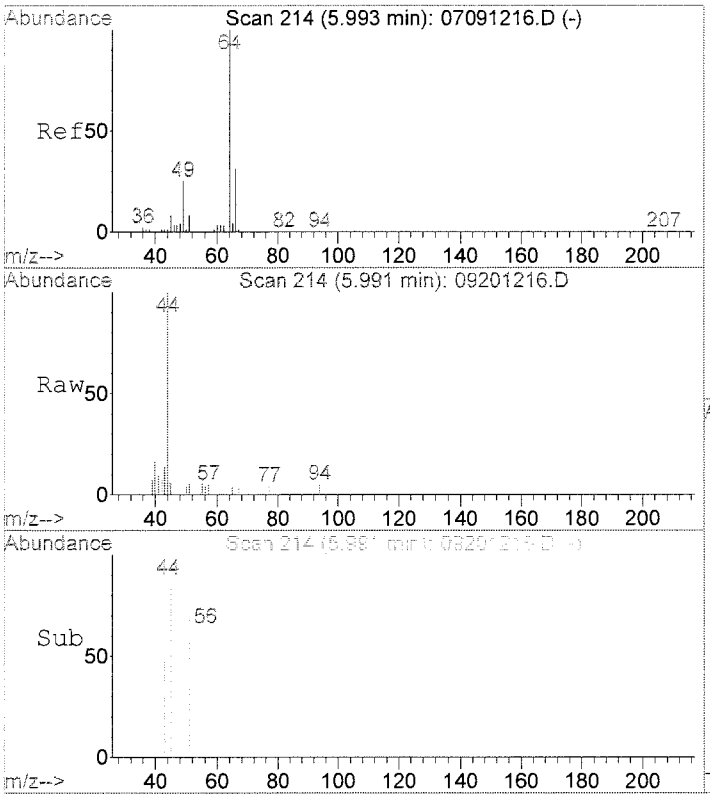
(#) = qualifier out of range (m) = manual integration
09201216.D 070912.M Thu Sep 20 15:23:09 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS4\DATA\092012\09201216.D Vial: 16
Acq On : 20 Sep 2012 12:57 pm Operator: MNM
Sample : PVI1717-10 Inst : GCMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:22 2012 Quant Results File: 070912.RES

Method : C:\HPCHEM\1\GCMS4\METHODS\070912.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Mon Jul 09 16:40:12 2012
Response via : Initial Calibration

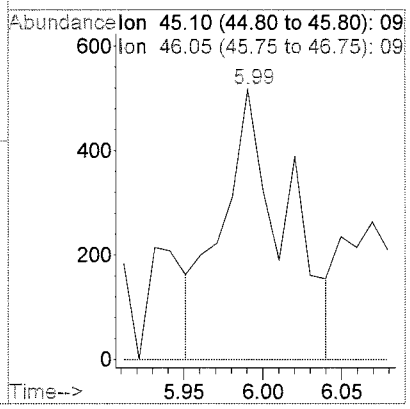


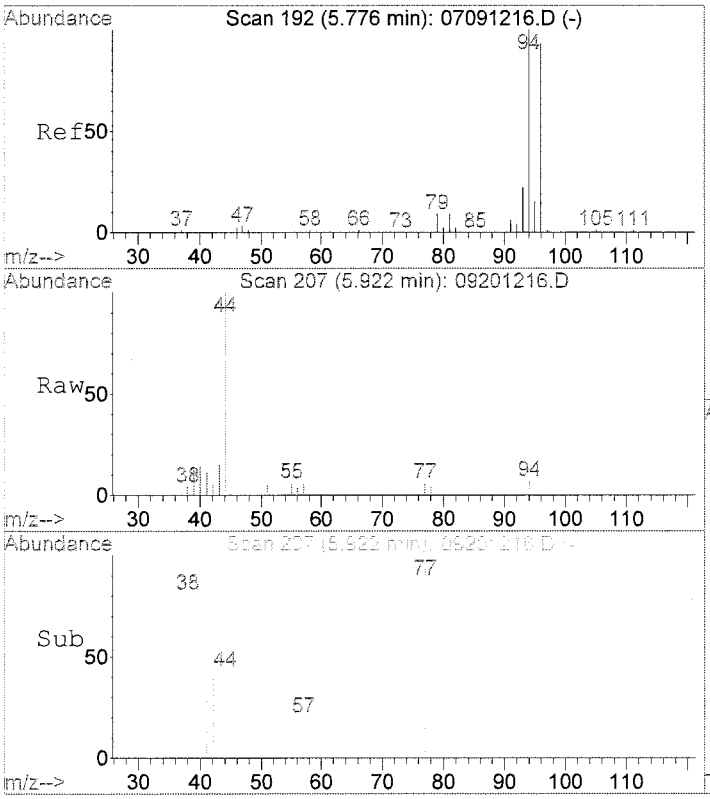


#2
Ethanol
Concen: 36.18 ug/L
RT: 5.99 min Scan# 214
Delta R.T. -0.00 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 45 Resp: 1459

Ion	Ratio	Lower	Upper
45	100		
46	0.0	45.9	85.9#

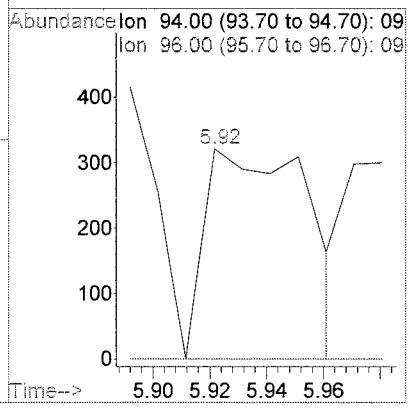


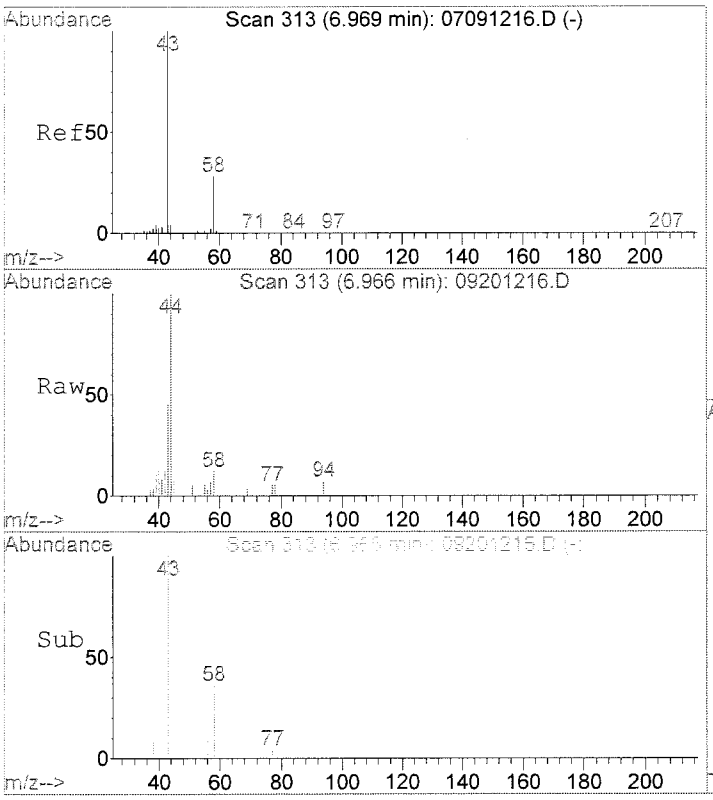


#9
Bromomethane
Concen: 0.34 ug/L
RT: 5.92 min Scan# 207
Delta R.T. 0.15 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 94 Resp: 808

Ion	Ratio	Lower	Upper
94	100		
96	0.0	76.8	115.2#

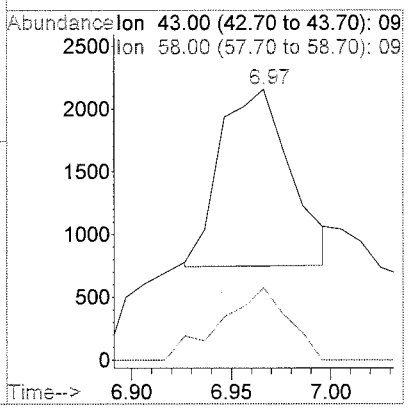


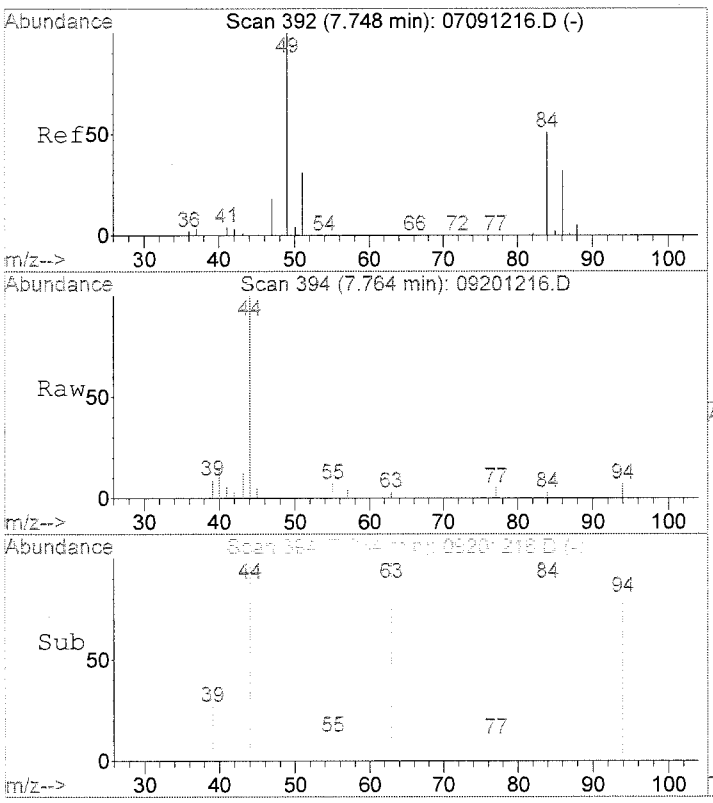


#12
Acetone
Concen: 2.12 ug/L m
RT: 6.97 min Scan# 313
Delta R.T. -0.00 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 43 Resp: 3474

Ion	Ratio	Lower	Upper
43	100		
58	38.6	25.7	38.5#

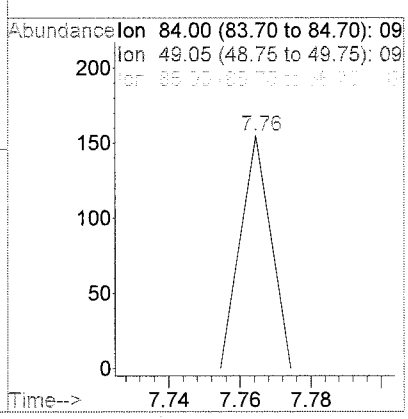




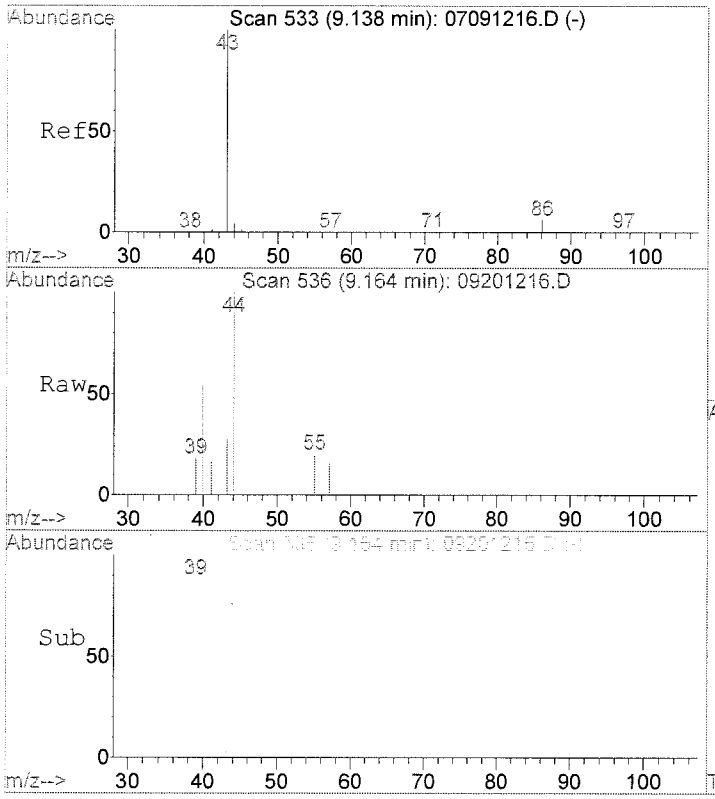
#15
Methylene Chloride
Concen: Below Cal
RT: 7.76 min Scan# 394
Delta R.T. 0.02 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 84 Resp: 92

Ion	Ratio	Lower	Upper
84	100		
49	0.0	147.9	221.9#
86	0.0	47.8	71.6#



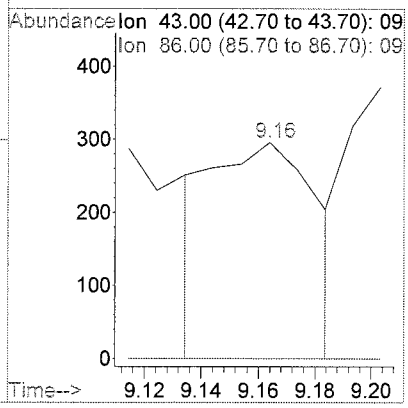
MM

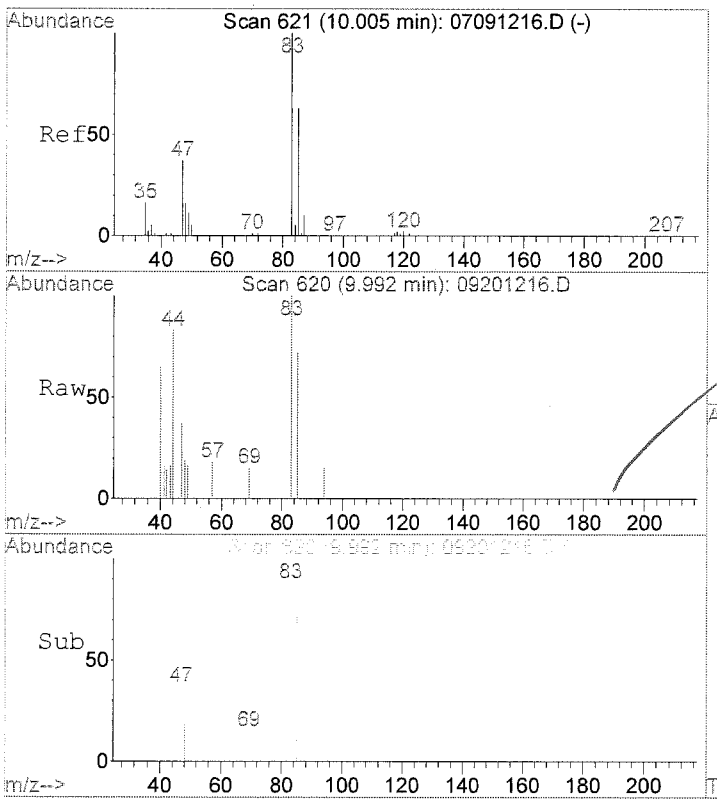


#21
Vinyl Acetate
Concen: 0.11 ug/L
RT: 9.16 min Scan# 536
Delta R.T. 0.03 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 43 Resp: 760

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.5	6.7#

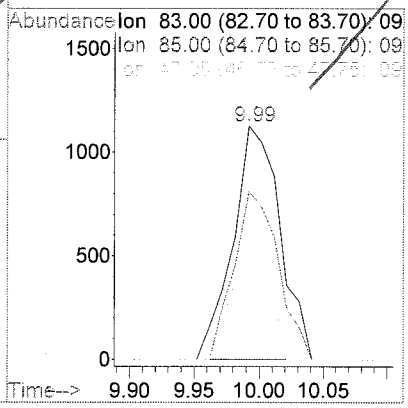


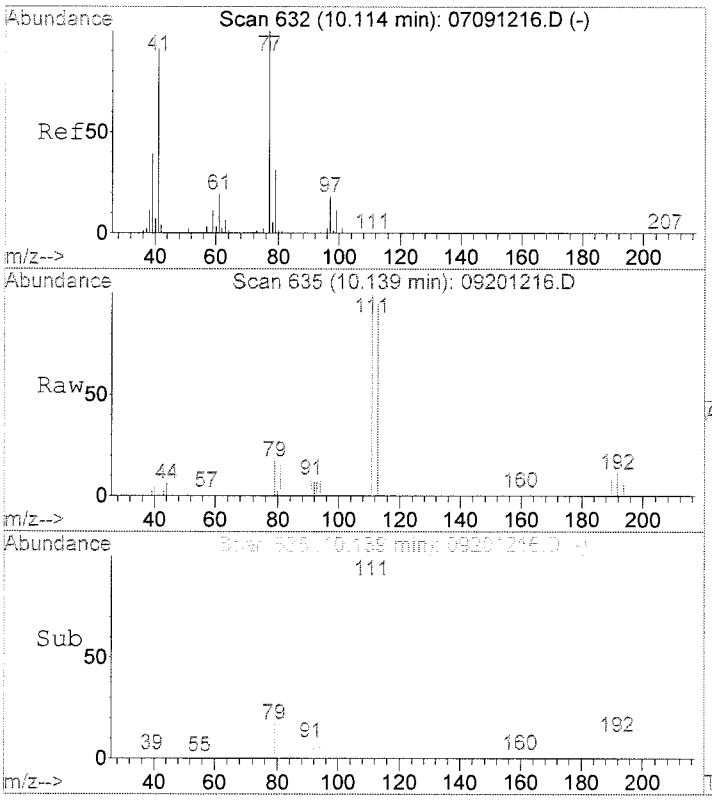


#27
Chloroform
Concen: 0.65 ug/L
RT: 9.99 min Scan# 620
Delta R.T. -0.01 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 83 Resp: 2825

Ion	Ratio	Lower	Upper
83	100		
85	67.9	51.0	76.4
47	36.5	29.4	44.2

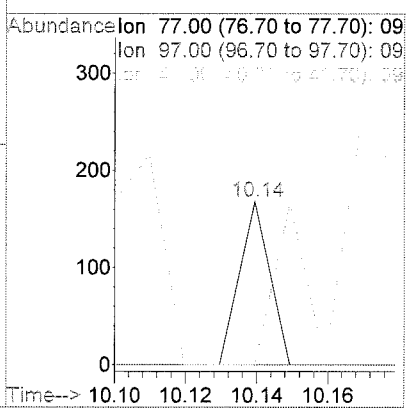


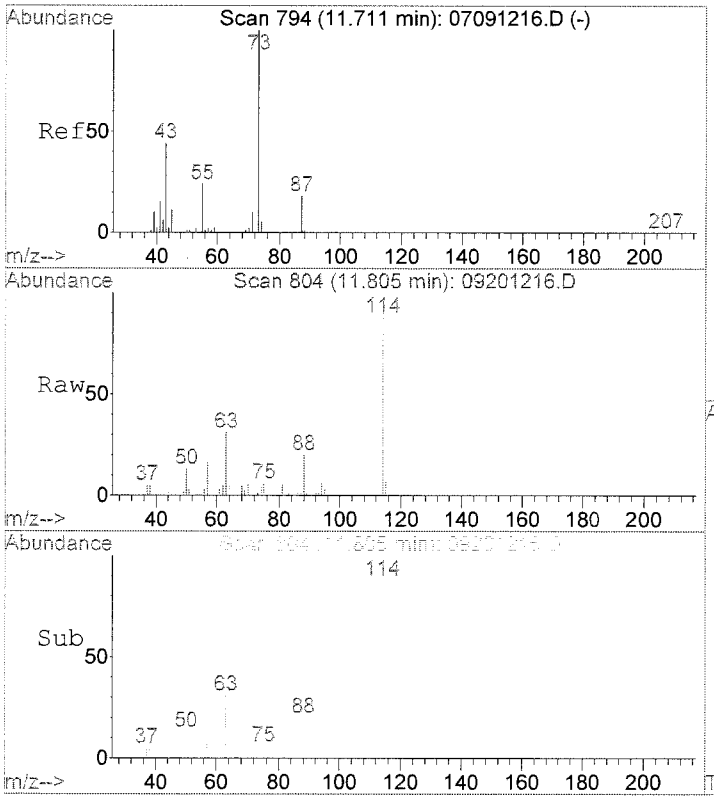


#28
2,2-Dichloropropane
Concen: Below Cal
RT: 10.14 min Scan# 635
Delta R.T. 0.03 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 77 Resp: 99

Ion	Ratio	Lower	Upper
77	100		
97	0.0	15.0	22.4#
41	775.8	72.3	108.5#

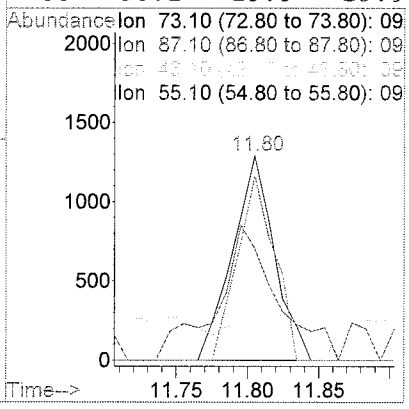




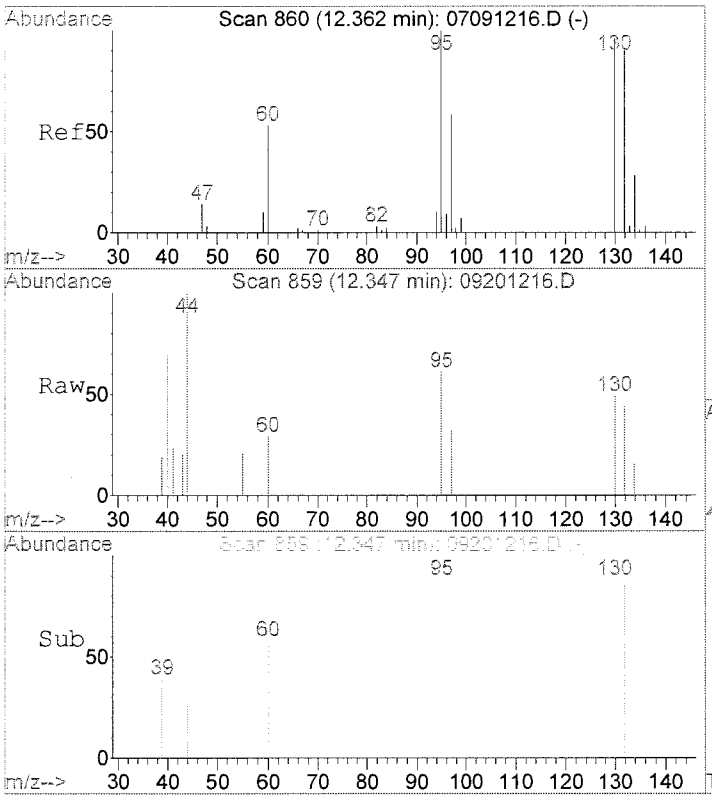
#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 11.80 min Scan# 804
Delta R.T. 0.09 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 73 Resp: 2631

Ion	Ratio	Lower	Upper
73	100		
87	80.7	14.6	21.8#
43	7.8	36.8	55.2#
55	95.1	19.9	29.9#



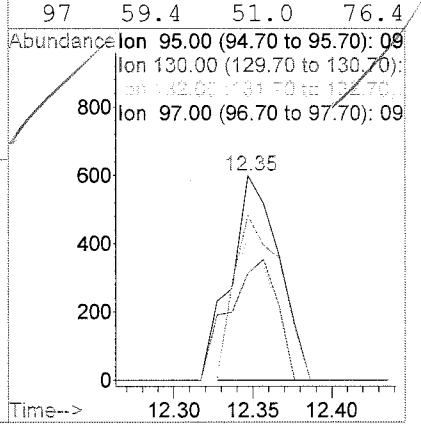
MM

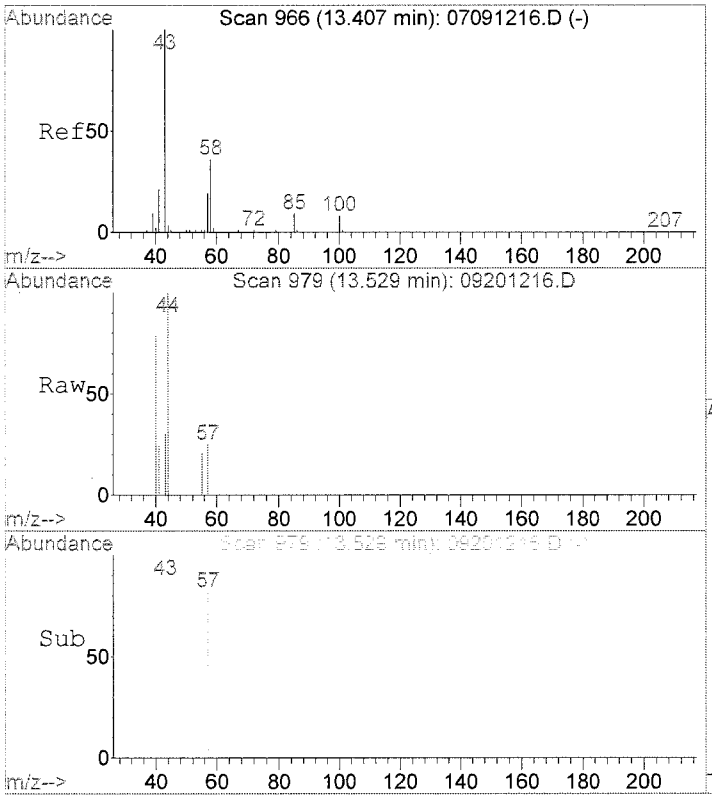


#41
Trichloroethene
Concen: 0.48 ug/L
RT: 12.35 min Scan# 859
Delta R.T. -0.01 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 95 Resp: 1270

Ion	Ratio	Lower	Upper
95	100		
130	78.3	72.3	108.5
132	57.2	68.4	102.6#
97	59.4	51.0	76.4

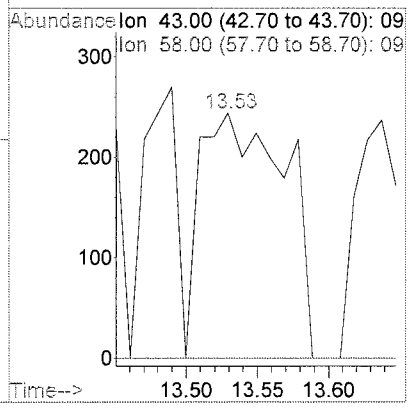




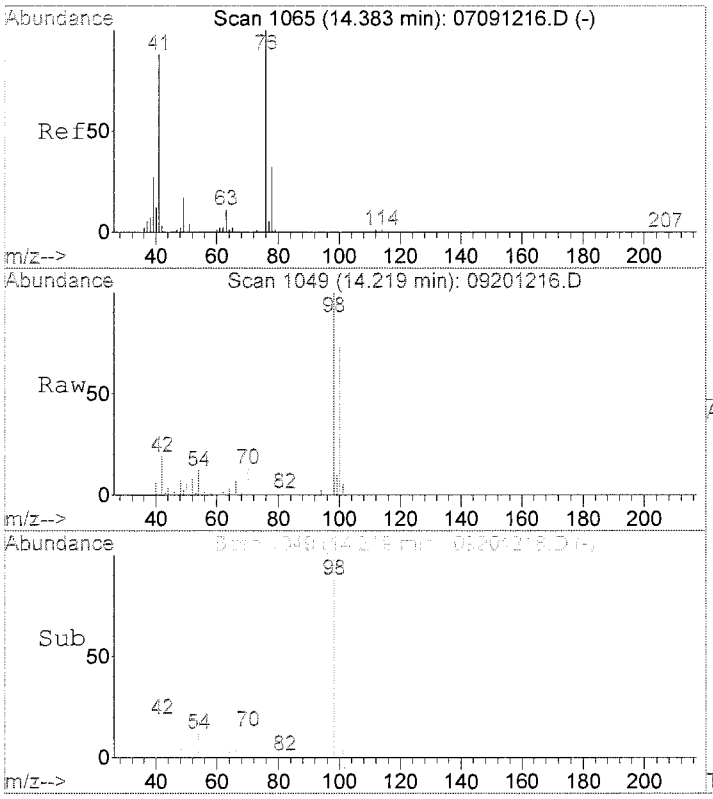
#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.30 ug/L
RT: 13.53 min Scan# 979
Delta R.T. 0.12 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 43 Resp: 1008

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	41.9#



MM

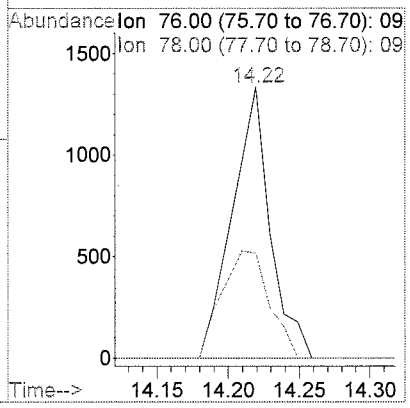


#51
1,3-Dichloropropane
Concen: 0.65 ug/L
RT: 14.22 min Scan# 1049
Delta R.T. -0.16 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

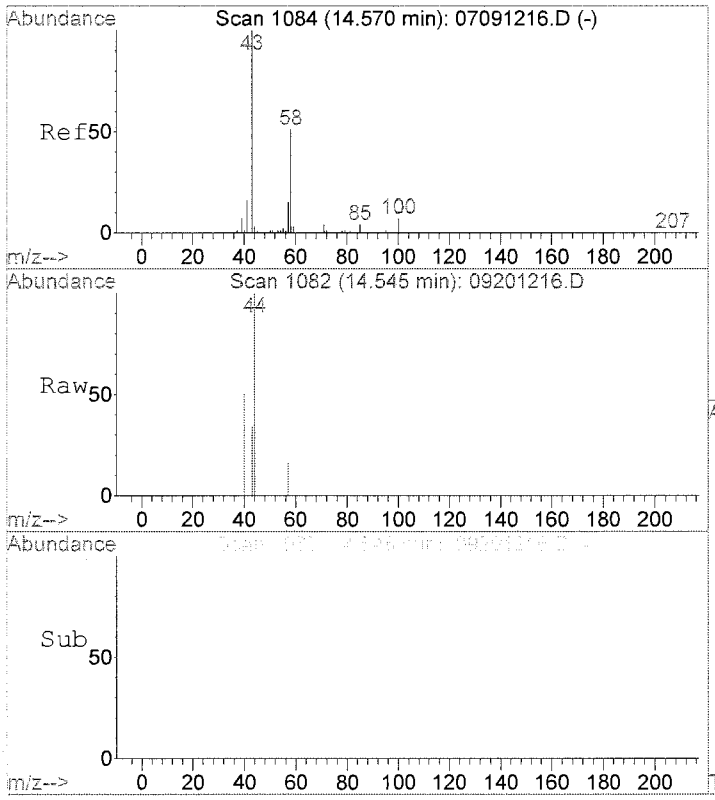
Tgt Ion: 76 Resp: 2458

Ion	Ratio	Lower	Upper
76	100		
78	49.7	25.6	38.4#

WRT



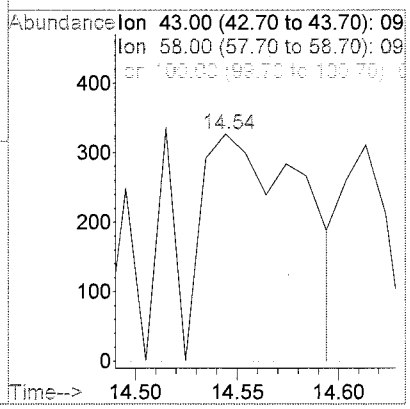
5



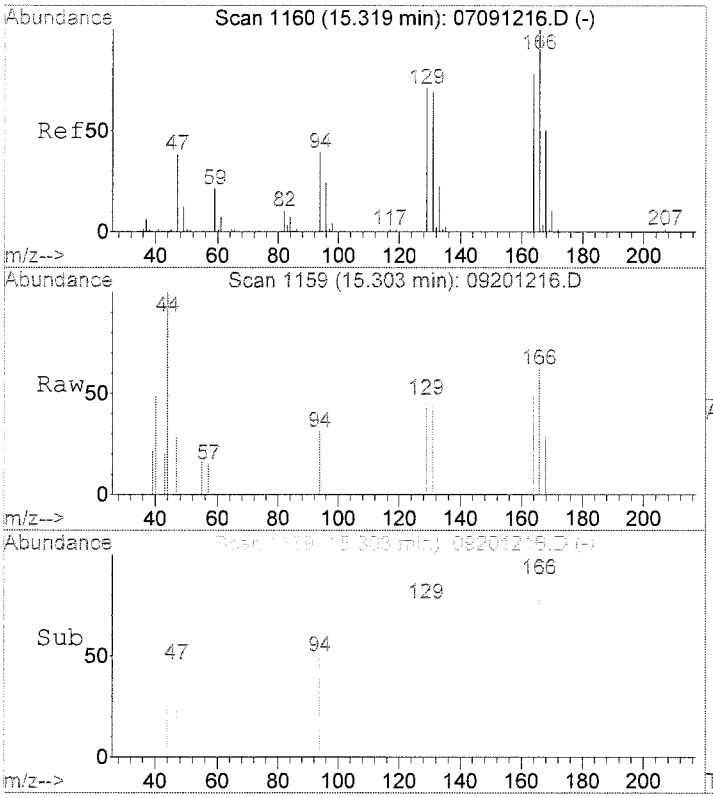
#52
2-Hexanone
Concen: 0.43 ug/L
RT: 14.54 min Scan# 1082
Delta R.T. -0.03 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion: 43 Resp: 1121

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.3	57.5#
100	0.0	5.1	7.7#



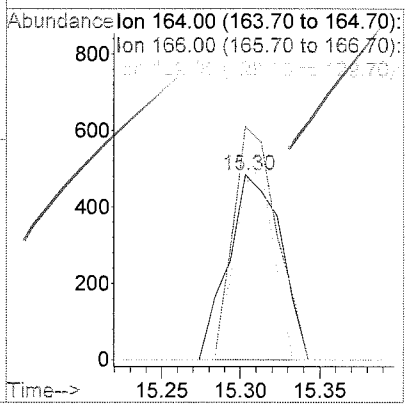
MM

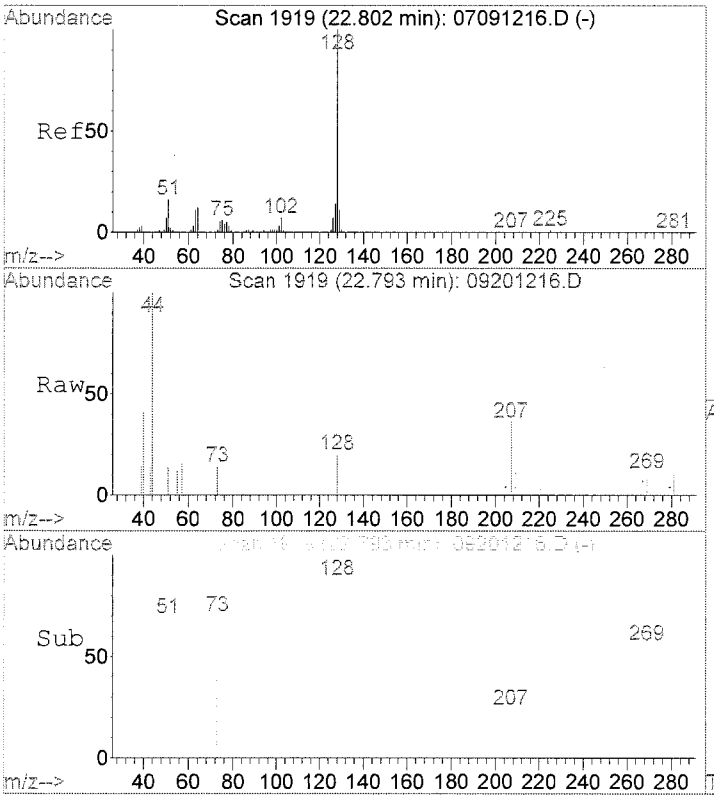


#55
Tetrachloroethene
Concen: 0.57 ug/L
RT: 15.30 min Scan# 1159
Delta R.T. -0.02 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion:164 Resp: 1112

Ion	Ratio	Lower	Upper
164	100		
166	104.6	102.9	154.3
129	75.5	73.4	110.0

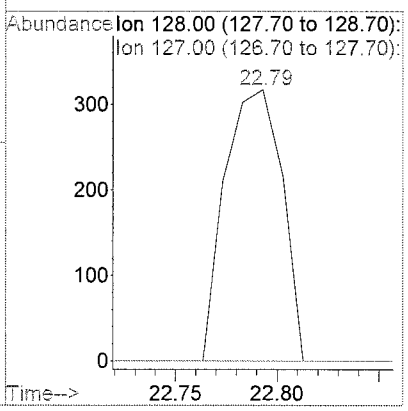




#84
Napthalene
Concen: 0.22 ug/L
RT: 22.79 min Scan# 1919
Delta R.T. -0.01 min
Lab File: 09201216.D
Acq: 20 Sep 2012 12:57 pm

Tgt Ion:128 Resp: 617

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.8	16.2#



mm

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV04717

Description:	8260 50ppm SS	Expires:	08/14/12
Standard Type:	Analyte Spike	Prepared:	08/02/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/02/12 05:25 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU07320	SS 54 Compounds (O2SI)	07/18/12	Melissa Spencer	12/18/12	07/18/12 06:31 by MNM	0.05
PU07325	8260 Gases O2SI	07/31/12	Kaycee Halla	08/14/12	07/31/12 13:23 by KH	0.05
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV01265	2-Chloroethyl vinyl ether	07/23/12	Lauren Mayes	01/23/13	07/23/12 14:22 by LMM	0.05
PV02578	SS Custom 8260 VOC Mix	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:29 by MNM	0.05
PV04410	O2SI Additions	07/20/12	** Vendor **	08/20/12	07/27/12 17:09 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Description:	SS 54 Compounds (O2SI)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:31 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07325

Description:	8260 Gases O2SI	Expires:	08/14/12
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:23 by KH

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01265

Description:	2-Chloroethyl vinyl ether	Expires:	01/23/13
Standard Type:	Other	Prepared:	07/23/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/23/12 14:22 by LMM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02578

Description:	SS Custom 8260 VOC Mix	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:29 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04410

Description:	O2SI Additions	Expires:	08/20/12
Standard Type:	Other	Prepared:	07/20/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/27/12 17:09 by ExH

Catalog # 120561-01
Vial cracked: changed expiration/prep date ExH 07/27/12

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04303

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	08/17/12
Standard Type:	Analyte Spike	Prepared:	07/17/12
Solvent:	MEOH/117046	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03429	tert-butyl alcohol	06/07/12	Lauren Mayes	12/19/12	06/19/12 15:31 by LMM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03429

Description:	tert-butyl alcohol	Expires:	12/19/12
Standard Type:	Other	Prepared:	06/07/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:31 by LMM

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Description:	8260 2.5 ppm CCV Standard	Expires:	08/15/12
Standard Type:	Calibration Stan	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	2.5	ppm
2-Butanone	78-93-3	2.5	ppm
2-Butanone (MEK)	78-93-3	2.5	ppm
2-Chloroethyl vinyl ether	110-75-8	2.5	ppm
2-Chlorotoluene	95-49-8	2.5	ppm
2-Hexanone	591-78-6	2.5	ppm
4-Chlorotoluene	106-43-4	2.5	ppm
4-Isopropyltoluene	99-87-6	2.5	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	ppm
1,1,1,2-Tetrachloroethane	630-20-6	2.5	ppm
Benzene	71-43-2	2.5	ppm
1,3-Dichloropropane	142-28-9	2.5	ppm
Bromochloromethane	74-97-5	2.5	ppm
Bromodichloromethane	75-27-4	2.5	ppm
Bromoform	75-25-2	2.5	ppm
Bromomethane	74-83-9	2.5	ppm
Carbon disulfide	75-15-0	2.5	ppm
Carbon tetrachloride	56-23-5	2.5	ppm
Chlorobenzene	108-90-7	2.5	ppm
Chloroethane	75-00-3	2.5	ppm
Acetone	67-64-1	2.5	ppm
1,2-Dibromo-3-chloropropane	96-12-8	2.5	ppm
1,1,1-Trichloroethane	71-55-6	2.5	ppm
1,1,2,2-Tetrachloroethane	79-34-5	2.5	ppm
1,1,2-Trichloroethane	79-00-5	2.5	ppm
1,1-Dichloroethane	75-34-3	2.5	ppm
1,1-Dichloroethene	75-35-4	2.5	ppm
1,1-Dichloropropene	563-58-6	2.5	ppm
1,2,3-Trichlorobenzene	87-61-6	2.5	ppm
1,2,3-Trichloropropane	96-18-4	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

2,2-Dichloropropane	594-20-7	2.5	ppm
1,2,4-Trimethylbenzene	95-63-6	2.5	ppm
1,4-Dichlorobenzene	106-46-7	2.5	ppm
1,2-Dibromoethane	106-93-4	2.5	ppm
1,2-Dibromoethane (EDB)	106-93-4	2.5	ppm
1,2-Dichlorobenzene	95-50-1	2.5	ppm
1,2-Dichloroethane	107-06-2	2.5	ppm
1,2-Dichloropropane	78-87-5	2.5	ppm
1,3,5-Trimethylbenzene	108-67-8	2.5	ppm
1,3-Butadiene	106-99-0	2.5	ppm
1,3-Dichlorobenzene	541-73-1	2.5	ppm
cis-1,2-Dichloroethene	156-59-2	2.5	ppm
1,2,4-Trichlorobenzene	120-82-1	2.5	ppm
Tetrachloroethene	127-18-4	2.5	ppm
Chloroform	67-66-3	2.5	ppm
Naphthalene	91-20-3	2.5	ppm
o-Xylene	95-47-6	2.5	ppm
p-Isopropyltoluene	99-87-6	2.5	ppm
p-Xylene	106-42-3	2.5	ppm
sec-Butylbenzene	135-98-8	2.5	ppm
Styrene	100-42-5	2.5	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	2.5	ppm
n-Hexane	110-54-3	2.5	ppm
tert-Butylbenzene	98-06-6	2.5	ppm
n-Butylbenzene	104-51-8	2.5	ppm
Tetrahydrofuran	109-99-9	2.5	ppm
Toluene	108-88-3	2.5	ppm
trans-1,2-Dichloroethene	156-60-5	2.5	ppm
trans-1,3-Dichloropropene	10061-02-6	2.5	ppm
trans-1,4-Dichloro-2-butene	110-57-6	2.5	ppm
Trichloroethene	79-01-6	2.5	ppm
Trichlorofluoromethane	75-69-4	2.5	ppm
Vinyl Acetate	108-05-4	2.5	ppm
Vinyl chloride	75-01-4	2.5	ppm
tert-Butyl ethyl ether	637-92-3	2.5	ppm
Iodomethane	4227-95-6	2.5	ppm
Xylenes, Total	1330-20-7	5	ppm
cis-1,3-Dichloropropene	10061-01-5	2.5	ppm
Di-isopropyl Ether (DIPE)	108-20-3	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Dibromochloromethane	124-48-1	2.5	ppm
Dibromomethane	74-95-3	2.5	ppm
Dichlorodifluoromethane	75-71-8	2.5	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2.5	ppm
Ethylbenzene	100-41-4	2.5	ppm
n-Propylbenzene	103-65-1	2.5	ppm
Hexachlorobutadiene	87-68-3	2.5	ppm
Chloromethane	74-87-3	2.5	ppm
Isopropylbenzene	98-82-8	2.5	ppm
m,p-Xylenes	179601-23-1	2.5	ppm
m-Xylene - Front	108-38-3	2.5	ppm
Methyl Ethyl Ketone	78-93-3	2.5	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2.5	ppm
Methyl tert-Butyl Ether	1634-04-4	2.5	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2.5	ppm
Methylene Chloride	75-09-2	2.5	ppm
MTBE	1634-04-4	2.5	ppm
Freon 113	76-13-1	2.5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04887	8260 50 ppm CCV (No Surr.)	08/10/12	Marbella Mazza	08/15/12	08/22/12 05:32 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Description:	8260 50 ppm CCV (No Surr.)	Expires:	08/15/12
Standard Type:	Analyte Spike	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03588	PS Custom 8260 Mix	06/14/12	Marbella Mazza	11/14/12	06/19/12 09:59 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PU05931	PS 54 Compounds 502/524 (Absolu	06/25/12	Marbella Mazza	11/25/12	08/22/12 05:32 by KH	0.05
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04452	Crescent Gases	08/08/12	Kaycee Halla	08/15/12	08/08/12 15:53 by KH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03588

Description:	PS Custom 8260 Mix	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 09:59 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Description:	PS 54 Compounds 502/524 (Absolute)	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04452

Description:	Crescent Gases	Expires:	08/15/12
Standard Type:	Other	Prepared:	08/08/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/08/12 15:53 by KH

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04792

Description:	50ppm EtOH/25ppmTBA/5ppm Surr	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/13/12 12:38 by KH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	5	ppm
Tert-Butanol (TBA)	75-65-0	25	ppm
t-Butanol (TBA)	75-65-0	25	ppm
Ethanol	64-17-5	50	ppm
Dibromofluoromethane	1868-53-7	5	ppm
4-Bromofluorobenzene	460-00-4	5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04791	PS EtOH/TBA + SURR	08/07/12	Marbella Mazza	09/07/12	08/07/12 12:35 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04791

Description:	PS EtOH/TBA + SURR	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 12:35 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04795

Description:	50 ppm IS/400ppm TBAd9	Expires:	09/07/12
Standard Type:	Reference Mate	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

IS for 2,4.7.

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04794

Description:	8260/624 IS/Surrogate	Expires:	09/07/12
Standard Type:	Surrogate Spike	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04559

Description:	25 ppm 4-BFB	Expires:	08/26/12
Standard Type:	MS Tune Soluti	Prepared:	07/26/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/26/12 07:48 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Description:	8260 50ppm SS	Expires:	09/25/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 05:21 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV03425	2-Chloroethyl vinyl ether	09/11/12	Marbella Mazza	01/11/13	09/11/12 13:31 by MNM	0.05
PV04409	O2SI Additions	09/11/12	Marbella Mazza	10/07/12	09/11/12 13:34 by MNM	0.05
PV04431	8260 Gases O2SI	09/11/12	Marbella Mazza	09/25/12	09/11/12 13:32 by MNM	0.05
PV04684	SS 54 Compounds (O2SI)	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:33 by MNM	0.05
PV05262	SS Custom 8260 VOC Mix	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:35 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03425

Description:	2-Chloroethyl vinyl ether	Expires:	01/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:31 by MNM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04409

Description:	O2SI Additions	Expires:	10/07/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:34 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04431

Description:	8260 Gases O2SI	Expires:	09/25/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:32 by MNM

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Description:	SS 54 Compounds (O2SI)	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:33 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05262

Description:	SS Custom 8260 VOC Mix	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:35 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05606

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	10/12/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MEOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 15:45 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03432	SS tert-butyl alcohol	08/06/12	Kaycee Halla	02/06/14	08/06/12 15:37 by KH	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03432

Description:	SS tert-butyl alcohol	Expires:	02/06/14
Standard Type:	Other	Prepared:	08/06/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/06/12 15:37 by KH

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05431

Description:	PS EtOH/TBA + SURR	Expires:	10/05/12
Standard Type:	Calibration Stan	Prepared:	09/05/12
Solvent:	MeOH/117046	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03646	8260 Surrogates	09/05/12	Marbella Mazza	03/05/14	09/05/12 05:49 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03646

Description:	8260 Surrogates	Expires:	03/05/14
Standard Type:	Other	Prepared:	09/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05519

Description:	50 ppm IS/400ppm TBAd9	Expires:	10/10/12
Standard Type:	Reference Mate	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 15:14 by KH

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05503

Description:	8260/624 IS/Surrogate	Expires:	10/10/12
Standard Type:	Surrogate Spike	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 06:13 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.04
PV03645	8260 Surrogates	08/28/12	Kaycee Halla	02/28/13	08/28/12 08:31 by KH	0.1
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03645

Description:	8260 Surrogates	Expires:	02/28/13
Standard Type:	Other	Prepared:	08/28/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/28/12 08:31 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05230

Description:	25 ppm 4-BFB	Expires:	09/27/12
Standard Type:	MS Tune Soluti	Prepared:	08/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/27/12 04:18 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

Description:	8260 50 ppm CCV (No Surr.)	Expires:	09/20/12
Standard Type:	Analyte Spike	Prepared:	09/13/12
Solvent:	MeOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/13/12 14:41 by ExH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU02260	PS 54 Compounds (Absolute)	08/31/12	Marbella Mazza	02/13/13	08/31/12 04:27 by MNM	0.05
PU03586	PS Custom 8260 Mix	08/14/12	Kaycee Halla	02/14/13	08/16/12 08:04 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05
PV05002	Crescent Gases	09/13/12	Erica Haddow	09/20/12	09/13/12 14:30 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Description:	PS 54 Compounds (Absolute)	Expires:	02/13/13
Standard Type:	Other	Prepared:	08/31/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/31/12 04:27 by MNM

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03586

Description:	PS Custom 8260 Mix	Expires:	02/14/13
Standard Type:	Other	Prepared:	08/14/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/16/12 08:04 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05002

Description:	Crescent Gases	Expires:	09/20/12
Standard Type:	Other	Prepared:	09/13/12
Solvent:	MeOH	Prepared By:	Erica Haddow
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/13/12 14:30 by ExH

8260 Gases Primary Source Crescent Catalog CC2006.10
Vial Opened: changed expiration/prep date ExH 09/13/12

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05773

Description:	50 ppm IS/400ppm TBAd9	Expires:	10/19/12
Standard Type:	Reference Mate	Prepared:	09/19/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/19/12 06:08 by MNM

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV04968	8260 Internal standard	09/19/12	Marbella Mazza	02/19/13	09/19/12 06:06 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04968

Description:	8260 Internal standard	Expires:	02/19/13
Standard Type:	Internal Standar	Prepared:	09/19/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/19/12 06:06 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05774

Description:	8260/624 IS/Surrogate	Expires:	10/19/12
Standard Type:	Surrogate Spike	Prepared:	09/19/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/19/12 06:09 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.04
PV03645	8260 Surrogates	08/28/12	Kaycee Halla	02/28/13	08/28/12 08:31 by KH	0.1
PV04968	8260 Internal standard	09/19/12	Marbella Mazza	02/19/13	09/19/12 06:06 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03645

Description:	8260 Surrogates	Expires:	02/28/13
Standard Type:	Other	Prepared:	08/28/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/28/12 08:31 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04968

Description:	8260 Internal standard	Expires:	02/19/13
Standard Type:	Internal Standar	Prepared:	09/19/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/19/12 06:06 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Description:	8260 50 ppm CCV (No Surr.)	Expires:	09/14/12
Standard Type:	Analyte Spike	Prepared:	09/07/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:10 by MNM

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05486

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU02260	PS 54 Compounds (Absolute)	08/31/12	Marbella Mazza	02/13/13	08/31/12 04:27 by MNM	0.05
PU03586	PS Custom 8260 Mix	08/14/12	Kaycee Halla	02/14/13	08/16/12 08:04 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05
PV05003	Crescent Gases	09/07/12	Marbella Mazza	09/14/12	09/07/12 06:08 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Description:	PS 54 Compounds (Absolute)	Expires:	02/13/13
Standard Type:	Other	Prepared:	08/31/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/31/12 04:27 by MNM

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03586

Description:	PS Custom 8260 Mix	Expires:	02/14/13
Standard Type:	Other	Prepared:	08/14/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/16/12 08:04 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05003

Description:	Crescent Gases	Expires:	09/14/12
Standard Type:	Other	Prepared:	09/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/07/12 06:08 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04116

Description:	8260 50 ppm CCV (No Surr.)	Expires:	07/16/12
Standard Type:	Analyte Spike	Prepared:	07/09/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04116

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

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PV04116

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03581	PS 1,3-Butadiene	06/03/12	Jing Hu	08/03/12	06/03/12 09:58 by J H	0.05
PU03588	PS Custom 8260 Mix	06/14/12	Marbella Mazza	11/14/12	06/19/12 09:59 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PU05151	Restek Additions (w/o V.A.)	06/14/12	Marbella Mazza	07/31/12	06/14/12 06:23 by MNM	0.05
PU05931	PS 54 Compounds 502/524 (Absolu	06/25/12	Marbella Mazza	11/25/12	08/22/12 05:32 by KH	0.05
PV01847	Crescent Vinyl acetate	05/14/12	Marbella Mazza	11/01/12	05/14/12 06:38 by MNM	0.05
PV03442	Crescent Gases	07/09/12	Marbella Mazza	07/16/12	07/09/12 10:44 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03581

Description:	PS 1,3-Butadiene	Expires:	08/03/12
Standard Type:	Other	Prepared:	06/03/12
Solvent:	MeOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/03/12 09:58 by J H

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03588

Description:	PS Custom 8260 Mix	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 09:59 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05151

Description:	Restek Additions (w/o V.A.)	Expires:	07/31/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:23 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Description:	PS 54 Compounds 502/524 (Absolute)	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

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TestAmerica Phoenix

PU05931

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01847

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	05/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/14/12 06:38 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03442

Description:	Crescent Gases	Expires:	07/16/12
Standard Type:	Other	Prepared:	07/09/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/09/12 10:44 by MNM

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04117

Description:	8260 2.5 ppm CCV Standard	Expires:	07/16/12
Standard Type:	Calibration Stan	Prepared:	07/09/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	2.5	ppm
2-Butanone	78-93-3	2.5	ppm
2-Butanone (MEK)	78-93-3	2.5	ppm
2-Chloroethyl vinyl ether	110-75-8	2.5	ppm
2-Chlorotoluene	95-49-8	2.5	ppm
2-Hexanone	591-78-6	2.5	ppm
4-Chlorotoluene	106-43-4	2.5	ppm
4-Isopropyltoluene	99-87-6	2.5	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	ppm
1,1,1,2-Tetrachloroethane	630-20-6	2.5	ppm
Benzene	71-43-2	2.5	ppm
1,3-Dichloropropane	142-28-9	2.5	ppm
Bromochloromethane	74-97-5	2.5	ppm
Bromodichloromethane	75-27-4	2.5	ppm
Bromoform	75-25-2	2.5	ppm
Bromomethane	74-83-9	2.5	ppm
Carbon disulfide	75-15-0	2.5	ppm
Carbon tetrachloride	56-23-5	2.5	ppm
Chlorobenzene	108-90-7	2.5	ppm
Chloroethane	75-00-3	2.5	ppm
Acetone	67-64-1	2.5	ppm
1,2-Dibromo-3-chloropropane	96-12-8	2.5	ppm
1,1,1-Trichloroethane	71-55-6	2.5	ppm
1,1,2,2-Tetrachloroethane	79-34-5	2.5	ppm
1,1,2-Trichloroethane	79-00-5	2.5	ppm
1,1-Dichloroethane	75-34-3	2.5	ppm
1,1-Dichloroethene	75-35-4	2.5	ppm
1,1-Dichloropropene	563-58-6	2.5	ppm
1,2,3-Trichlorobenzene	87-61-6	2.5	ppm
1,2,3-Trichloropropane	96-18-4	2.5	ppm

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PV04117

2,2-Dichloropropane	594-20-7	2.5	ppm
1,2,4-Trimethylbenzene	95-63-6	2.5	ppm
1,4-Dichlorobenzene	106-46-7	2.5	ppm
1,2-Dibromoethane	106-93-4	2.5	ppm
1,2-Dibromoethane (EDB)	106-93-4	2.5	ppm
1,2-Dichlorobenzene	95-50-1	2.5	ppm
1,2-Dichloroethane	107-06-2	2.5	ppm
1,2-Dichloropropane	78-87-5	2.5	ppm
1,3,5-Trimethylbenzene	108-67-8	2.5	ppm
1,3-Butadiene	106-99-0	2.5	ppm
1,3-Dichlorobenzene	541-73-1	2.5	ppm
cis-1,2-Dichloroethene	156-59-2	2.5	ppm
1,2,4-Trichlorobenzene	120-82-1	2.5	ppm
Tetrachloroethene	127-18-4	2.5	ppm
Chloroform	67-66-3	2.5	ppm
Naphthalene	91-20-3	2.5	ppm
o-Xylene	95-47-6	2.5	ppm
p-Isopropyltoluene	99-87-6	2.5	ppm
p-Xylene	106-42-3	2.5	ppm
sec-Butylbenzene	135-98-8	2.5	ppm
Styrene	100-42-5	2.5	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	2.5	ppm
n-Hexane	110-54-3	2.5	ppm
tert-Butylbenzene	98-06-6	2.5	ppm
n-Butylbenzene	104-51-8	2.5	ppm
Tetrahydrofuran	109-99-9	2.5	ppm
Toluene	108-88-3	2.5	ppm
trans-1,2-Dichloroethene	156-60-5	2.5	ppm
trans-1,3-Dichloropropene	10061-02-6	2.5	ppm
trans-1,4-Dichloro-2-butene	110-57-6	2.5	ppm
Trichloroethene	79-01-6	2.5	ppm
Trichlorofluoromethane	75-69-4	2.5	ppm
Vinyl Acetate	108-05-4	2.5	ppm
Vinyl chloride	75-01-4	2.5	ppm
tert-Butyl ethyl ether	637-92-3	2.5	ppm
Iodomethane	4227-95-6	2.5	ppm
Xylenes, Total	1330-20-7	5	ppm
cis-1,3-Dichloropropene	10061-01-5	2.5	ppm
Di-isopropyl Ether (DIPE)	108-20-3	2.5	ppm

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PV04117

Dibromochloromethane	124-48-1	2.5	ppm
Dibromomethane	74-95-3	2.5	ppm
Dichlorodifluoromethane	75-71-8	2.5	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2.5	ppm
Ethylbenzene	100-41-4	2.5	ppm
n-Propylbenzene	103-65-1	2.5	ppm
Hexachlorobutadiene	87-68-3	2.5	ppm
Chloromethane	74-87-3	2.5	ppm
Isopropylbenzene	98-82-8	2.5	ppm
m,p-Xylenes	179601-23-1	2.5	ppm
m-Xylene - Front	108-38-3	2.5	ppm
Methyl Ethyl Ketone	78-93-3	2.5	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2.5	ppm
Methyl tert-Butyl Ether	1634-04-4	2.5	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2.5	ppm
Methylene Chloride	75-09-2	2.5	ppm
MTBE	1634-04-4	2.5	ppm
Freon 113	76-13-1	2.5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04116	8260 50 ppm CCV (No Surr.)	07/09/12	Marbella Mazza	07/16/12	08/22/12 05:32 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04115

Description:	PS EtOH/TBA + SURR	Expires:	08/09/12
Standard Type:	Calibration Stan	Prepared:	07/09/12
Solvent:	MeOH/115869	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/09/12 10:34 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02146	Crescent TBA	05/21/12	Marbella Mazza	11/21/12	05/21/12 09:42 by MNM	0.25
PV03502	8260 Surrogates	06/07/12	Lauren Mayes	01/05/13	07/06/12 13:23 by LMM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02146

Description:	Crescent TBA	Expires:	11/21/12
Standard Type:	Other	Prepared:	05/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/21/12 09:42 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03502

Description:	8260 Surrogates	Expires:	01/05/13
Standard Type:	Other	Prepared:	06/07/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/06/12 13:23 by LMM

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04096

Description:	50ppm EtOH/25ppmTBA/5ppm Surr	Expires:	07/14/12
Standard Type:	Calibration Stan	Prepared:	07/05/12
Solvent:	MeOH/113504	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/05/12 15:09 by KH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	5	ppm
Tert-Butanol (TBA)	75-65-0	25	ppm
t-Butanol (TBA)	75-65-0	25	ppm
Ethanol	64-17-5	50	ppm
Dibromofluoromethane	1868-53-7	5	ppm
4-Bromofluorobenzene	460-00-4	5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV03577	PS EtOH/TBA + SURR	06/14/12	Marbella Mazza	07/14/12	06/14/12 07:40 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03577

Description:	PS EtOH/TBA + SURR	Expires:	07/14/12
Standard Type:	Calibration Stan	Prepared:	06/14/12
Solvent:	MeOH/115869	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 07:40 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02146	Crescent TBA	05/21/12	Marbella Mazza	11/21/12	05/21/12 09:42 by MNM	0.25
PV03501	8260 Surrogates	06/12/12	Kaycee Halla	12/12/12	06/12/12 06:25 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02146

Description:	Crescent TBA	Expires:	11/21/12
Standard Type:	Other	Prepared:	05/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/21/12 09:42 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03501

Description:	8260 Surrogates	Expires:	12/12/12
Standard Type:	Other	Prepared:	06/12/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/12/12 06:25 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04039

Description:	8260 50ppm SS	Expires:	07/17/12
Standard Type:	Analyte Spike	Prepared:	07/03/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/03/12 05:57 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04039

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04039

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU04307	SS Custom 8260 VOC Mix	06/19/12	Marbella Mazza	11/19/12	06/19/12 05:37 by MNM	0.05
PU04379	SS 1,3-Butadiene (2000ug/mL)	01/29/12	Marbella Mazza	07/29/12	01/29/12 09:30 by MNM	0.05
PU07229	SS 54 Compounds (O2SI)	06/19/12	Marbella Mazza	11/19/12	06/19/12 05:36 by MNM	0.05
PU07964	8260 Gases O2SI	07/03/12	Marbella Mazza	07/17/12	07/03/12 05:48 by MNM	0.05
PV01264	2-Chloroethyl vinyl ether	07/03/12	Marbella Mazza	12/03/12	07/03/12 05:46 by MNM	0.05
PV03418	O2SI Additions	07/03/12	Marbella Mazza	08/28/12	07/03/12 05:47 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU04307

Description:	SS Custom 8260 VOC Mix	Expires:	11/19/12
Standard Type:	Other	Prepared:	06/19/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 05:37 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU04379

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	07/29/12
Standard Type:	Other	Prepared:	01/29/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	01/29/12 09:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07229

Description:	SS 54 Compounds (O2SI)	Expires:	11/19/12
Standard Type:	Other	Prepared:	06/19/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 05:36 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07229

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07964

Description:	8260 Gases O2SI	Expires:	07/17/12
Standard Type:	Internal Standar	Prepared:	07/03/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/03/12 05:48 by MNM

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01264

Description:	2-Chloroethyl vinyl ether	Expires:	12/03/12
Standard Type:	Other	Prepared:	07/03/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/03/12 05:46 by MNM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03418

Description:	O2SI Additions	Expires:	08/28/12
Standard Type:	Other	Prepared:	07/03/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/03/12 05:47 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03697

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	07/19/12
Standard Type:	Analyte Spike	Prepared:	06/19/12
Solvent:	MEOH/115869	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:33 by LMM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU07978	tert-butyl alcohol	05/18/12	Lauren Mayes	11/18/12	06/19/12 15:33 by LMM	0.25
PV03261	SS Ethanol 20000ppm	05/29/12	Lauren Mayes	11/29/12	05/29/12 11:58 by LMM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07978

Description:	tert-butyl alcohol	Expires:	11/18/12
Standard Type:	Other	Prepared:	05/18/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:33 by LMM

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03261

Description:	SS Ethanol 20000ppm	Expires:	11/29/12
Standard Type:	Analyte Spike	Prepared:	05/29/12
Solvent:	MEOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/29/12 11:58 by LMM

Description: Ethanol, 20000ppm
CAT# 020202-02-SS

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04079

Description:	50 ppm IS/400ppm TBAd9	Expires:	08/05/12
Standard Type:	Internal Standar	Prepared:	07/05/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/05/12 06:28 by MNM

IS for 2,4.7.

Analyte	CAS Number	Concentration	Units
TBA-d9		400	ppm
Pentafluorobenzene	363-72-4	50	ppm
Chlorobenzene-d5	3114-55-4	50	ppm
1,4-Difluorobenzene	540-36-3	50	ppm
1,4-Dichlorobenzene d4	3855-82-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01392	Tert-Butanol-d9, 40000 ppm	05/15/12	Marbella Mazza	11/15/12	05/15/12 08:01 by MNM	0.02
PV03436	8260 Internal standard	07/05/12	Marbella Mazza	12/05/12	07/05/12 06:27 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01392

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	11/15/12
Standard Type:	Other	Prepared:	05/15/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/15/12 08:01 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03436

Description:	8260 Internal standard	Expires:	12/05/12
Standard Type:	Internal Standar	Prepared:	07/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/05/12 06:27 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03984

Description:	8260/624 IS/Surrogate	Expires:	08/02/12
Standard Type:	Surrogate Spike	Prepared:	07/02/12
Solvent:	MeOH/115869	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	2	Last Edit:	07/02/12 06:04 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01392	Tert-Butanol-d9, 40000 ppm	05/15/12	Marbella Mazza	11/15/12	05/15/12 08:01 by MNM	0.04
PV02150	8260 Internal standard	05/17/12	Marbella Mazza	11/17/12	05/17/12 06:26 by MNM	0.1
PV03503	8260 Surrogates	06/25/12	Marbella Mazza	11/25/12	06/25/12 07:24 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01392

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	11/15/12
Standard Type:	Other	Prepared:	05/15/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/15/12 08:01 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02150

Description:	8260 Internal standard	Expires:	11/17/12
Standard Type:	Internal Standar	Prepared:	05/17/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/17/12 06:26 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03503

Description:	8260 Surrogates	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/25/12 07:24 by MNM

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03882

Description:	25 ppm 4-BFB	Expires:	07/26/12
Standard Type:	MS Tune Soluti	Prepared:	06/26/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/26/12 07:17 by KH

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Level IV Data Package

APS-Corporate

TestAmerica Work Order Number:

PVI0867

Prepared for:

Judy Heywood
APS – Corporate
P.O. Box 53999 M/S 8376
Phoenix, AZ 85072-3999

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project: APS 501,502, & 505

Sampled: 09/13/12
Received: 09/13/12
Issued: 09/21/12 10:16

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVI0867-01	Trip Blank	Water
PVI0867-02	MW5M2-091312	Water
PVI0867-03	MW5S-091312	Water
PVI0867-04	MW5M-091312	Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

CHAIN OF CUSTODY FORMS

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

PVI0867

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Site Contact: Laura Menken	Date: 9/13/12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kyle Tinity	Carrier:	1 of 1 COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No.
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) _____			
(602) 250-3850 Phone	TAT if different from Below _____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
TRIP BLANK -01	—	—		W	1		X		X	
MW5M2-091312 -02	9/13/12	08 50	GW	W	3		X		X	
MW5S-091312 -03	9/13/12	9:20	GW	W	3		X		X	
MW5M-091312 -04	9/13/12	11:00	GW	W	3		X		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: *Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.*

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	9/13/12 12:23			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			[signature]		9/13/12 12:23

1.9°C

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-01 (Trip Blank - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0548	7.3	10	**8.9**	1	09/17/12	09/17/12	E4
Benzene	EPA 8260B	12I0548	0.12	0.50	ND	1	09/17/12	09/17/12	E8
Bromobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Bromochloromethane	EPA 8260B	12I0548	0.27	0.50	ND	1	09/17/12	09/17/12	E8
Bromodichloromethane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Bromoform	EPA 8260B	12I0548	0.37	1.0	ND	1	09/17/12	09/17/12	E8
Bromomethane	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
2-Butanone (MEK)	EPA 8260B	12I0548	2.2	5.0	ND	1	09/17/12	09/17/12	E8
tert-Butylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
n-Butylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
sec-Butylbenzene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Carbon disulfide	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Carbon tetrachloride	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
Chlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
Chloroethane	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
Chloroform	EPA 8260B	12I0548	0.13	0.50	ND	1	09/17/12	09/17/12	E8
Chloromethane	EPA 8260B	12I0548	0.21	1.0	ND	1	09/17/12	09/17/12	E8
4-Chlorotoluene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
2-Chlorotoluene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0548	0.82	5.0	ND	1	09/17/12	09/17/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0548	0.30	0.50	ND	1	09/17/12	09/17/12	E8
Dibromomethane	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethane	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0548	0.29	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
2,2-Dichloropropane	EPA 8260B	12I0548	0.18	1.0	ND	1	09/17/12	09/17/12	E8
1,3-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloropropene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0548	0.47	0.50	ND	1	09/17/12	09/17/12	E8
Ethylbenzene	EPA 8260B	12I0548	0.32	0.50	ND	1	09/17/12	09/17/12	E8
Hexachlorobutadiene	EPA 8260B	12I0548	0.28	1.0	ND	1	09/17/12	09/17/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-01 (Trip Blank - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0548	1.5	5.0	ND	1	09/17/12	09/17/12	E8
Iodomethane	EPA 8260B	12I0548	0.21	2.5	ND	1	09/17/12	09/17/12	E8
Isopropylbenzene	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
p-Isopropyltoluene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
Methylene Chloride	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0548	1.3	2.5	ND	1	09/17/12	09/17/12	E8
Naphthalene	EPA 8260B	12I0548	0.51	2.5	ND	1	09/17/12	09/17/12	E8
n-Propylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Styrene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0548	0.35	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0548	0.33	0.50	ND	1	09/17/12	09/17/12	E8
Tetrachloroethene	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Toluene	EPA 8260B	12I0548	0.28	0.50	ND	1	09/17/12	09/17/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0548	0.32	1.0	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0548	0.45	1.0	ND	1	09/17/12	09/17/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
Trichloroethene	EPA 8260B	12I0548	0.24	0.50	ND	1	09/17/12	09/17/12	E8
Trichlorofluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0548	0.78	2.0	ND	1	09/17/12	09/17/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Vinyl Acetate	EPA 8260B	12I0548	0.81	2.0	ND	1	09/17/12	09/17/12	E8
Vinyl chloride	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Xylenes, Total	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*104 %*				
Surrogate: Dibromofluoromethane (70-130%)					*109 %*				
Surrogate: Toluene-d8 (70-130%)					*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-02 (MW5M2-091312 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0548	7.3	10	ND	1	09/17/12	09/17/12	E8
Benzene	EPA 8260B	12I0548	0.12	0.50	ND	1	09/17/12	09/17/12	E8
Bromobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Bromochloromethane	EPA 8260B	12I0548	0.27	0.50	ND	1	09/17/12	09/17/12	E8
Bromodichloromethane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Bromoform	EPA 8260B	12I0548	0.37	1.0	ND	1	09/17/12	09/17/12	E8
Bromomethane	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
2-Butanone (MEK)	EPA 8260B	12I0548	2.2	5.0	ND	1	09/17/12	09/17/12	E8
tert-Butylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
n-Butylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
sec-Butylbenzene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Carbon disulfide	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Carbon tetrachloride	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
Chlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
Chloroethane	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
Chloroform	EPA 8260B	12I0548	0.13	0.50	ND	1	09/17/12	09/17/12	E8
Chloromethane	EPA 8260B	12I0548	0.21	1.0	ND	1	09/17/12	09/17/12	E8
4-Chlorotoluene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
2-Chlorotoluene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0548	0.82	5.0	ND	1	09/17/12	09/17/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0548	0.30	0.50	ND	1	09/17/12	09/17/12	E8
Dibromomethane	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethane	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0548	0.29	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
2,2-Dichloropropane	EPA 8260B	12I0548	0.18	1.0	ND	1	09/17/12	09/17/12	E8
1,3-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloropropene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0548	0.47	0.50	ND	1	09/17/12	09/17/12	E8
Ethylbenzene	EPA 8260B	12I0548	0.32	0.50	ND	1	09/17/12	09/17/12	E8
Hexachlorobutadiene	EPA 8260B	12I0548	0.28	1.0	ND	1	09/17/12	09/17/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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P.O. Box 53999, M/S 9307
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Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-02 (MW5M2-091312 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0548	1.5	5.0	ND	1	09/17/12	09/17/12	E8
Iodomethane	EPA 8260B	12I0548	0.21	2.5	ND	1	09/17/12	09/17/12	E8
Isopropylbenzene	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
p-Isopropyltoluene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
Methylene Chloride	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0548	1.3	2.5	ND	1	09/17/12	09/17/12	E8
Naphthalene	EPA 8260B	12I0548	0.51	2.5	ND	1	09/17/12	09/17/12	E8
n-Propylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Styrene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0548	0.35	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0548	0.33	0.50	ND	1	09/17/12	09/17/12	E8
Tetrachloroethene	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Toluene	EPA 8260B	12I0548	0.28	0.50	ND	1	09/17/12	09/17/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0548	0.32	1.0	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0548	0.45	1.0	ND	1	09/17/12	09/17/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
Trichloroethene	EPA 8260B	12I0548	0.24	0.50	ND	1	09/17/12	09/17/12	E8
Trichlorofluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0548	0.78	2.0	ND	1	09/17/12	09/17/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Vinyl Acetate	EPA 8260B	12I0548	0.81	2.0	ND	1	09/17/12	09/17/12	E8
Vinyl chloride	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Xylenes, Total	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*109 %*				
Surrogate: Toluene-d8 (70-130%)					*97 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-03 (MW5S-091312 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0548	7.3	10	ND	1	09/17/12	09/17/12	E8
Benzene	EPA 8260B	12I0548	0.12	0.50	ND	1	09/17/12	09/17/12	E8
Bromobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Bromochloromethane	EPA 8260B	12I0548	0.27	0.50	ND	1	09/17/12	09/17/12	E8
Bromodichloromethane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Bromoform	EPA 8260B	12I0548	0.37	1.0	ND	1	09/17/12	09/17/12	E8
Bromomethane	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
2-Butanone (MEK)	EPA 8260B	12I0548	2.2	5.0	ND	1	09/17/12	09/17/12	E8
tert-Butylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
n-Butylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
sec-Butylbenzene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Carbon disulfide	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Carbon tetrachloride	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
Chlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
Chloroethane	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
Chloroform	EPA 8260B	12I0548	0.13	0.50	**0.62**	1	09/17/12	09/17/12	
Chloromethane	EPA 8260B	12I0548	0.21	1.0	ND	1	09/17/12	09/17/12	E8
4-Chlorotoluene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
2-Chlorotoluene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0548	0.82	5.0	ND	1	09/17/12	09/17/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0548	0.30	0.50	ND	1	09/17/12	09/17/12	E8
Dibromomethane	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethane	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0548	0.29	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
2,2-Dichloropropane	EPA 8260B	12I0548	0.18	1.0	ND	1	09/17/12	09/17/12	E8
1,3-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloropropene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0548	0.47	0.50	ND	1	09/17/12	09/17/12	E8
Ethylbenzene	EPA 8260B	12I0548	0.32	0.50	ND	1	09/17/12	09/17/12	E8
Hexachlorobutadiene	EPA 8260B	12I0548	0.28	1.0	ND	1	09/17/12	09/17/12	V1, E8

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-03 (MW5S-091312 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0548	1.5	5.0	ND	1	09/17/12	09/17/12	E8
Iodomethane	EPA 8260B	12I0548	0.21	2.5	ND	1	09/17/12	09/17/12	E8
Isopropylbenzene	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
p-Isopropyltoluene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
Methylene Chloride	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0548	1.3	2.5	ND	1	09/17/12	09/17/12	E8
Naphthalene	EPA 8260B	12I0548	0.51	2.5	ND	1	09/17/12	09/17/12	E8
n-Propylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Styrene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0548	0.35	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0548	0.33	0.50	ND	1	09/17/12	09/17/12	E8
Tetrachloroethene	EPA 8260B	12I0548	0.18	0.50	**0.38**	1	09/17/12	09/17/12	E4
Toluene	EPA 8260B	12I0548	0.28	0.50	ND	1	09/17/12	09/17/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0548	0.32	1.0	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0548	0.45	1.0	ND	1	09/17/12	09/17/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
Trichloroethene	EPA 8260B	12I0548	0.24	0.50	ND	1	09/17/12	09/17/12	E8
Trichlorofluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0548	0.78	2.0	ND	1	09/17/12	09/17/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Vinyl Acetate	EPA 8260B	12I0548	0.81	2.0	ND	1	09/17/12	09/17/12	E8
Vinyl chloride	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Xylenes, Total	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*103 %*				
Surrogate: Dibromofluoromethane (70-130%)					*106 %*				
Surrogate: Toluene-d8 (70-130%)					*100 %*				

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-04 (MW5M-091312 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	12I0548	7.3	10	ND	1	09/17/12	09/17/12	E8
Benzene	EPA 8260B	12I0548	0.12	0.50	ND	1	09/17/12	09/17/12	E8
Bromobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Bromochloromethane	EPA 8260B	12I0548	0.27	0.50	ND	1	09/17/12	09/17/12	E8
Bromodichloromethane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Bromoform	EPA 8260B	12I0548	0.37	1.0	ND	1	09/17/12	09/17/12	E8
Bromomethane	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
2-Butanone (MEK)	EPA 8260B	12I0548	2.2	5.0	ND	1	09/17/12	09/17/12	E8
tert-Butylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
n-Butylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
sec-Butylbenzene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
Carbon disulfide	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Carbon tetrachloride	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
Chlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
Chloroethane	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
Chloroform	EPA 8260B	12I0548	0.13	0.50	**0.44**	1	09/17/12	09/17/12	E4
Chloromethane	EPA 8260B	12I0548	0.21	1.0	ND	1	09/17/12	09/17/12	E8
4-Chlorotoluene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
2-Chlorotoluene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromo-3-chloropropane	EPA 8260B	12I0548	0.82	5.0	ND	1	09/17/12	09/17/12	V1, E8
Dibromochloromethane	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dibromoethane (EDB)	EPA 8260B	12I0548	0.30	0.50	ND	1	09/17/12	09/17/12	E8
Dibromomethane	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichlorobenzene	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
1,4-Dichlorobenzene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,3-Dichlorobenzene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
Dichlorodifluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethane	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,2-Dichloroethene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,2-Dichloroethene	EPA 8260B	12I0548	0.29	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloroethene	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
1,2-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
2,2-Dichloropropane	EPA 8260B	12I0548	0.18	1.0	ND	1	09/17/12	09/17/12	E8
1,3-Dichloropropane	EPA 8260B	12I0548	0.23	0.50	ND	1	09/17/12	09/17/12	E8
cis-1,3-Dichloropropene	EPA 8260B	12I0548	0.14	0.50	ND	1	09/17/12	09/17/12	E8
1,1-Dichloropropene	EPA 8260B	12I0548	0.20	0.50	ND	1	09/17/12	09/17/12	E8
trans-1,3-Dichloropropene	EPA 8260B	12I0548	0.47	0.50	ND	1	09/17/12	09/17/12	E8
Ethylbenzene	EPA 8260B	12I0548	0.32	0.50	ND	1	09/17/12	09/17/12	E8
Hexachlorobutadiene	EPA 8260B	12I0548	0.28	1.0	ND	1	09/17/12	09/17/12	V1, E8

TestAmerica Phoenix

Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVI0867-04 (MW5M-091312 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	12I0548	1.5	5.0	ND	1	09/17/12	09/17/12	E8
Iodomethane	EPA 8260B	12I0548	0.21	2.5	ND	1	09/17/12	09/17/12	E8
Isopropylbenzene	EPA 8260B	12I0548	0.26	0.50	ND	1	09/17/12	09/17/12	E8
p-Isopropyltoluene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12I0548	0.22	0.50	ND	1	09/17/12	09/17/12	E8
Methylene Chloride	EPA 8260B	12I0548	0.67	1.0	ND	1	09/17/12	09/17/12	E8
4-Methyl-2-pentanone (MIBK)	EPA 8260B	12I0548	1.3	2.5	ND	1	09/17/12	09/17/12	E8
Naphthalene	EPA 8260B	12I0548	0.51	2.5	ND	1	09/17/12	09/17/12	E8
n-Propylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Styrene	EPA 8260B	12I0548	0.17	0.50	ND	1	09/17/12	09/17/12	E8
1,1,1,2-Tetrachloroethane	EPA 8260B	12I0548	0.35	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2,2-Tetrachloroethane	EPA 8260B	12I0548	0.33	0.50	ND	1	09/17/12	09/17/12	E8
Tetrachloroethene	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Toluene	EPA 8260B	12I0548	0.28	0.50	ND	1	09/17/12	09/17/12	E8
1,2,4-Trichlorobenzene	EPA 8260B	12I0548	0.32	1.0	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichlorobenzene	EPA 8260B	12I0548	0.45	1.0	ND	1	09/17/12	09/17/12	E8
1,1,1-Trichloroethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,1,2-Trichloroethane	EPA 8260B	12I0548	0.31	0.50	ND	1	09/17/12	09/17/12	E8
Trichloroethene	EPA 8260B	12I0548	0.24	0.50	ND	1	09/17/12	09/17/12	E8
Trichlorofluoromethane	EPA 8260B	12I0548	0.15	0.50	ND	1	09/17/12	09/17/12	E8
1,2,3-Trichloropropane	EPA 8260B	12I0548	0.78	2.0	ND	1	09/17/12	09/17/12	E8
1,2,4-Trimethylbenzene	EPA 8260B	12I0548	0.25	0.50	ND	1	09/17/12	09/17/12	E8
1,3,5-Trimethylbenzene	EPA 8260B	12I0548	0.21	0.50	ND	1	09/17/12	09/17/12	E8
Vinyl Acetate	EPA 8260B	12I0548	0.81	2.0	ND	1	09/17/12	09/17/12	E8
Vinyl chloride	EPA 8260B	12I0548	0.18	0.50	ND	1	09/17/12	09/17/12	E8
Xylenes, Total	EPA 8260B	12I0548	0.86	1.0	ND	1	09/17/12	09/17/12	E8
Surrogate: 4-Bromofluorobenzene (70-130%)					*103 %*				
Surrogate: Dibromofluoromethane (70-130%)					*111 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL IV

QUALITY CONTROL SUMMARIES

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THE LEADER IN ENVIRONMENTAL TESTING

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Blank Analyzed: 09/17/2012 (12I0548-BLK1)											
Acetone	ND	10	7.3	ug/l							
Benzene	ND	0.50	0.12	ug/l							
Bromobenzene	ND	0.50	0.14	ug/l							
Bromochloromethane	ND	0.50	0.27	ug/l							
Bromodichloromethane	ND	0.50	0.23	ug/l							
Bromoform	ND	1.0	0.37	ug/l							
Bromomethane	ND	1.0	0.67	ug/l							
2-Butanone (MEK)	ND	5.0	2.2	ug/l							
tert-Butylbenzene	ND	0.50	0.25	ug/l							
n-Butylbenzene	ND	0.50	0.21	ug/l							
sec-Butylbenzene	ND	0.50	0.23	ug/l							
Carbon disulfide	ND	1.0	0.86	ug/l							
Carbon tetrachloride	ND	0.50	0.15	ug/l							
Chlorobenzene	ND	0.50	0.17	ug/l							
Chloroethane	ND	0.50	0.25	ug/l							
Chloroform	ND	0.50	0.13	ug/l							
Chloromethane	ND	1.0	0.21	ug/l							
4-Chlorotoluene	ND	0.50	0.20	ug/l							
2-Chlorotoluene	ND	0.50	0.17	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	0.82	ug/l							*V1*
Dibromochloromethane	ND	0.50	0.22	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.30	ug/l							
Dibromomethane	ND	0.50	0.26	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.22	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.17	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.14	ug/l							
Dichlorodifluoromethane	ND	0.50	0.15	ug/l							
1,1-Dichloroethane	ND	0.50	0.14	ug/l							
1,2-Dichloroethane	ND	0.50	0.31	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.21	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.29	ug/l							

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Kylie Emily
Project Manager

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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Blank Analyzed: 09/17/2012 (12I0548-BLK1)											
1,1-Dichloroethene	ND	0.50	0.23	ug/l							
1,2-Dichloropropane	ND	0.50	0.23	ug/l							
2,2-Dichloropropane	ND	1.0	0.18	ug/l							
1,3-Dichloropropane	ND	0.50	0.23	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.14	ug/l							
1,1-Dichloropropene	ND	0.50	0.20	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.47	ug/l							
Ethylbenzene	ND	0.50	0.32	ug/l							
Hexachlorobutadiene	ND	1.0	0.28	ug/l							*V1*
2-Hexanone	ND	5.0	1.5	ug/l							
Iodomethane	ND	2.5	0.21	ug/l							
Isopropylbenzene	ND	0.50	0.26	ug/l							
p-Isopropyltoluene	ND	0.50	0.21	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.22	ug/l							
Methylene Chloride	ND	1.0	0.67	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l							
Naphthalene	ND	2.5	0.51	ug/l							
n-Propylbenzene	ND	0.50	0.21	ug/l							
Styrene	ND	0.50	0.17	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	0.35	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.33	ug/l							
Tetrachloroethene	ND	0.50	0.18	ug/l							
Toluene	ND	0.50	0.28	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.32	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.45	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.15	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.31	ug/l							
Trichloroethene	ND	0.50	0.24	ug/l							
Trichlorofluoromethane	ND	0.50	0.15	ug/l							
1,2,3-Trichloropropane	ND	2.0	0.78	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	0.25	ug/l							

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APS-Corporate
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Phoenix, AZ 85072-3999
Attention: Judy Heywood

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Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Blank Analyzed: 09/17/2012 (12I0548-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	0.21	ug/l							
Vinyl Acetate	ND	2.0	0.81	ug/l							
Vinyl chloride	ND	0.50	0.18	ug/l							
Xylenes, Total	ND	1.0	0.86	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.6*			*ug/l*	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*26.2*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Toluene-d8	*24.3*			*ug/l*	*25.0*		*97*	*70-130*			
LCS Analyzed: 09/17/2012 (12I0548-BS1)											
Acetone	31.8	10	7.3	ug/l	25.0		127	38-150			
Benzene	23.7	0.50	0.12	ug/l	25.0		95	70-130			
Bromobenzene	24.6	0.50	0.14	ug/l	25.0		98	70-130			
Bromochloromethane	23.0	0.50	0.27	ug/l	25.0		92	70-130			
Bromodichloromethane	25.6	0.50	0.23	ug/l	25.0		102	70-130			
Bromoform	26.2	1.0	0.37	ug/l	25.0		105	69-129			
Bromomethane	29.2	1.0	0.67	ug/l	25.0		117	57-138			
2-Butanone (MEK)	24.0	5.0	2.2	ug/l	25.0		96	53-150			
tert-Butylbenzene	27.5	0.50	0.25	ug/l	25.0		110	70-130			
n-Butylbenzene	25.8	0.50	0.21	ug/l	25.0		103	70-130			
sec-Butylbenzene	26.0	0.50	0.23	ug/l	25.0		104	70-130			
Carbon disulfide	27.9	1.0	0.86	ug/l	25.0		112	64-145			
Carbon tetrachloride	31.2	0.50	0.15	ug/l	25.0		125	70-143			
Chlorobenzene	24.4	0.50	0.17	ug/l	25.0		97	70-130			
Chloroethane	26.4	0.50	0.25	ug/l	25.0		106	66-131			
Chloroform	24.0	0.50	0.13	ug/l	25.0		96	70-130			
Chloromethane	28.2	1.0	0.21	ug/l	25.0		113	56-129			
4-Chlorotoluene	25.7	0.50	0.20	ug/l	25.0		103	70-130			
2-Chlorotoluene	26.6	0.50	0.17	ug/l	25.0		107	70-130			
1,2-Dibromo-3-chloropropane	28.7	5.0	0.82	ug/l	25.0		115	63-146			*V1*
Dibromochloromethane	26.1	0.50	0.22	ug/l	25.0		105	70-130			
1,2-Dibromoethane (EDB)	23.3	0.50	0.30	ug/l	25.0		93	70-130			
Dibromomethane	24.0	0.50	0.26	ug/l	25.0		96	70-130			

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Kylie Emily
Project Manager

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
LCS Analyzed: 09/17/2012 (12I0548-BS1)											
1,2-Dichlorobenzene	25.0	0.50	0.22	ug/l	25.0		100	70-130			
1,4-Dichlorobenzene	24.6	0.50	0.17	ug/l	25.0		98	70-130			
1,3-Dichlorobenzene	24.1	0.50	0.14	ug/l	25.0		96	70-130			
Dichlorodifluoromethane	30.1	0.50	0.15	ug/l	25.0		121	46-144			
1,1-Dichloroethane	23.2	0.50	0.14	ug/l	25.0		93	70-130			
1,2-Dichloroethane	27.3	0.50	0.31	ug/l	25.0		109	66-139			
cis-1,2-Dichloroethene	24.4	0.50	0.21	ug/l	25.0		98	70-130			
trans-1,2-Dichloroethene	23.2	0.50	0.29	ug/l	25.0		93	69-127			
1,1-Dichloroethene	28.0	0.50	0.23	ug/l	25.0		112	63-131			
1,2-Dichloropropane	21.2	0.50	0.23	ug/l	25.0		85	70-130			
2,2-Dichloropropane	27.6	1.0	0.18	ug/l	25.0		110	69-139			
1,3-Dichloropropane	21.4	0.50	0.23	ug/l	25.0		86	70-130			
cis-1,3-Dichloropropene	24.5	0.50	0.14	ug/l	25.0		98	70-130			
1,1-Dichloropropene	21.4	0.50	0.20	ug/l	25.0		86	70-130			
trans-1,3-Dichloropropene	25.8	0.50	0.47	ug/l	25.0		103	70-130			
Ethylbenzene	24.3	0.50	0.32	ug/l	25.0		97	70-130			
Hexachlorobutadiene	35.0	1.0	0.28	ug/l	25.0		140	76-145			*V1*
2-Hexanone	22.1	5.0	1.5	ug/l	25.0		89	55-150			
Iodomethane	30.6	2.5	0.21	ug/l	25.0		122	74-150			
Isopropylbenzene	28.1	0.50	0.26	ug/l	25.0		112	88-141			
p-Isopropyltoluene	26.9	0.50	0.21	ug/l	25.0		108	70-130			
Methyl-tert-butyl Ether (MTBE)	24.1	0.50	0.22	ug/l	25.0		96	70-130			
Methylene Chloride	24.3	1.0	0.67	ug/l	25.0		97	63-128			
4-Methyl-2-pentanone (MIBK)	20.8	2.5	1.3	ug/l	25.0		83	64-142			
Naphthalene	25.0	2.5	0.51	ug/l	25.0		100	78-143			
n-Propylbenzene	26.1	0.50	0.21	ug/l	25.0		104	70-130			
Styrene	24.7	0.50	0.17	ug/l	25.0		99	70-130			
1,1,1,2-Tetrachloroethane	24.3	0.50	0.35	ug/l	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	23.5	0.50	0.33	ug/l	25.0		94	70-130			
Tetrachloroethene	23.0	0.50	0.18	ug/l	25.0		92	70-130			
Toluene	25.2	0.50	0.28	ug/l	25.0		101	70-130			

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APS-Corporate
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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
LCS Analyzed: 09/17/2012 (12I0548-BS1)											
1,2,4-Trichlorobenzene	27.1	1.0	0.32	ug/l	25.0		108	80-137			
1,2,3-Trichlorobenzene	26.0	1.0	0.45	ug/l	25.0		104	79-139			
1,1,1-Trichloroethane	28.5	0.50	0.15	ug/l	25.0		114	71-131			
1,1,2-Trichloroethane	25.2	0.50	0.31	ug/l	25.0		101	70-130			
Trichloroethene	25.1	0.50	0.24	ug/l	25.0		101	70-130			
Trichlorofluoromethane	35.0	0.50	0.15	ug/l	25.0		140	69-150			
1,2,3-Trichloropropane	27.7	2.0	0.78	ug/l	25.0		111	70-130			
1,2,4-Trimethylbenzene	27.2	0.50	0.25	ug/l	25.0		109	70-130			
1,3,5-Trimethylbenzene	27.4	0.50	0.21	ug/l	25.0		110	70-130			
Vinyl Acetate	24.6	2.0	0.81	ug/l	25.0		99	67-148			
Vinyl chloride	27.4	0.50	0.18	ug/l	25.0		109	65-137			
Xylenes, Total	48.2	1.0	0.86	ug/l	50.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*			*ug/l*	*25.0*		*99*	*70-130*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*70-130*			
LCS Dup Analyzed: 09/17/2012 (12I0548-BSD1)											
Acetone	31.6	10	7.3	ug/l	25.0		126	38-150	0.7	35	
Benzene	23.1	0.50	0.12	ug/l	25.0		92	70-130	3	20	
Bromobenzene	25.1	0.50	0.14	ug/l	25.0		100	70-130	2	20	
Bromochloromethane	25.5	0.50	0.27	ug/l	25.0		102	70-130	10	20	
Bromodichloromethane	25.7	0.50	0.23	ug/l	25.0		103	70-130	0.2	20	
Bromoform	29.1	1.0	0.37	ug/l	25.0		117	69-129	11	20	
Bromomethane	28.6	1.0	0.67	ug/l	25.0		115	57-138	2	20	
2-Butanone (MEK)	29.9	5.0	2.2	ug/l	25.0		119	53-150	22	35	
tert-Butylbenzene	27.6	0.50	0.25	ug/l	25.0		110	70-130	0.3	20	
n-Butylbenzene	24.7	0.50	0.21	ug/l	25.0		99	70-130	4	20	
sec-Butylbenzene	26.1	0.50	0.23	ug/l	25.0		104	70-130	0.4	20	
Carbon disulfide	27.8	1.0	0.86	ug/l	25.0		111	64-145	0.1	33	
Carbon tetrachloride	31.5	0.50	0.15	ug/l	25.0		126	70-143	1	20	
Chlorobenzene	24.6	0.50	0.17	ug/l	25.0		98	70-130	0.9	20	
Chloroethane	26.3	0.50	0.25	ug/l	25.0		105	66-131	0.3	20	

TestAmerica Phoenix

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
LCS Dup Analyzed: 09/17/2012 (12I0548-BSD1)											
Chloroform	23.7	0.50	0.13	ug/l	25.0		95	70-130	1	20	
Chloromethane	28.7	1.0	0.21	ug/l	25.0		115	56-129	2	20	
4-Chlorotoluene	26.0	0.50	0.20	ug/l	25.0		104	70-130	1	20	
2-Chlorotoluene	26.7	0.50	0.17	ug/l	25.0		107	70-130	0.2	20	
1,2-Dibromo-3-chloropropane	31.5	5.0	0.82	ug/l	25.0		126	63-146	10	22	*V1*
Dibromochloromethane	27.2	0.50	0.22	ug/l	25.0		109	70-130	4	20	
1,2-Dibromoethane (EDB)	25.6	0.50	0.30	ug/l	25.0		102	70-130	10	20	
Dibromomethane	25.0	0.50	0.26	ug/l	25.0		100	70-130	4	20	
1,2-Dichlorobenzene	25.1	0.50	0.22	ug/l	25.0		100	70-130	0.2	20	
1,4-Dichlorobenzene	24.2	0.50	0.17	ug/l	25.0		97	70-130	2	20	
1,3-Dichlorobenzene	24.8	0.50	0.14	ug/l	25.0		99	70-130	3	20	
Dichlorodifluoromethane	29.5	0.50	0.15	ug/l	25.0		118	46-144	2	23	
1,1-Dichloroethane	23.2	0.50	0.14	ug/l	25.0		93	70-130	0.1	20	
1,2-Dichloroethane	28.3	0.50	0.31	ug/l	25.0		113	66-139	4	20	
cis-1,2-Dichloroethene	24.9	0.50	0.21	ug/l	25.0		99	70-130	2	20	
trans-1,2-Dichloroethene	22.8	0.50	0.29	ug/l	25.0		91	69-127	2	20	
1,1-Dichloroethene	28.2	0.50	0.23	ug/l	25.0		113	63-131	0.6	22	
1,2-Dichloropropane	21.6	0.50	0.23	ug/l	25.0		87	70-130	2	20	
2,2-Dichloropropane	28.2	1.0	0.18	ug/l	25.0		113	69-139	2	20	
1,3-Dichloropropane	22.1	0.50	0.23	ug/l	25.0		88	70-130	3	20	
cis-1,3-Dichloropropene	25.1	0.50	0.14	ug/l	25.0		101	70-130	2	20	
1,1-Dichloropropene	21.0	0.50	0.20	ug/l	25.0		84	70-130	2	20	
trans-1,3-Dichloropropene	26.6	0.50	0.47	ug/l	25.0		107	70-130	3	20	
Ethylbenzene	24.3	0.50	0.32	ug/l	25.0		97	70-130	0.04	20	
Hexachlorobutadiene	33.6	1.0	0.28	ug/l	25.0		135	76-145	4	20	*V1*
2-Hexanone	23.4	5.0	1.5	ug/l	25.0		94	55-150	6	35	
Iodomethane	30.4	2.5	0.21	ug/l	25.0		122	74-150	0.6	20	
Isopropylbenzene	28.0	0.50	0.26	ug/l	25.0		112	88-141	0.5	20	
p-Isopropyltoluene	26.2	0.50	0.21	ug/l	25.0		105	70-130	3	20	
Methyl-tert-butyl Ether (MTBE)	25.6	0.50	0.22	ug/l	25.0		102	70-130	6	20	
Methylene Chloride	25.4	1.0	0.67	ug/l	25.0		102	63-128	4	21	

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
LCS Dup Analyzed: 09/17/2012 (12I0548-BSD1)											
4-Methyl-2-pentanone (MIBK)	22.8	2.5	1.3	ug/l	25.0		91	64-142	9	25	
Naphthalene	26.9	2.5	0.51	ug/l	25.0		108	78-143	7	20	
n-Propylbenzene	26.3	0.50	0.21	ug/l	25.0		105	70-130	1	20	
Styrene	24.4	0.50	0.17	ug/l	25.0		98	70-130	1	20	
1,1,1,2-Tetrachloroethane	25.6	0.50	0.35	ug/l	25.0		102	70-130	5	20	
1,1,2,2-Tetrachloroethane	25.0	0.50	0.33	ug/l	25.0		100	70-130	6	20	
Tetrachloroethene	22.3	0.50	0.18	ug/l	25.0		89	70-130	3	20	
Toluene	24.8	0.50	0.28	ug/l	25.0		99	70-130	2	20	
1,2,4-Trichlorobenzene	27.3	1.0	0.32	ug/l	25.0		109	80-137	1	20	
1,2,3-Trichlorobenzene	26.4	1.0	0.45	ug/l	25.0		106	79-139	1	20	
1,1,1-Trichloroethane	29.3	0.50	0.15	ug/l	25.0		117	71-131	3	20	
1,1,2-Trichloroethane	26.2	0.50	0.31	ug/l	25.0		105	70-130	4	20	
Trichloroethene	25.2	0.50	0.24	ug/l	25.0		101	70-130	0.4	20	
Trichlorofluoromethane	35.2	0.50	0.15	ug/l	25.0		141	69-150	0.4	22	
1,2,3-Trichloropropane	27.3	2.0	0.78	ug/l	25.0		109	70-130	1	20	
1,2,4-Trimethylbenzene	26.1	0.50	0.25	ug/l	25.0		104	70-130	4	20	
1,3,5-Trimethylbenzene	27.1	0.50	0.21	ug/l	25.0		109	70-130	1	20	
Vinyl Acetate	24.6	2.0	0.81	ug/l	25.0		98	67-148	0.2	22	
Vinyl chloride	27.7	0.50	0.18	ug/l	25.0		111	65-137	1	20	
Xylenes, Total	50.7	1.0	0.86	ug/l	50.0		101	70-130	5	20	
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*26.3*			*ug/l*	*25.0*		*105*	*70-130*			
Surrogate: Toluene-d8	*23.9*			*ug/l*	*25.0*		*96*	*70-130*			
Matrix Spike Analyzed: 09/17/2012 (12I0548-MS1)						**Source: PVI0875-01**					
Acetone	18.2	10	7.3	ug/l	25.0	ND	73	29-139			
Benzene	23.0	0.50	0.12	ug/l	25.0	ND	92	68-131			
Bromobenzene	25.4	0.50	0.14	ug/l	25.0	ND	102	70-130			
Bromochloromethane	23.9	0.50	0.27	ug/l	25.0	ND	95	64-132			
Bromodichloromethane	24.9	0.50	0.23	ug/l	25.0	10.6	57	63-138			*M2*
Bromoform	26.8	1.0	0.37	ug/l	25.0	ND	107	60-128			
Bromomethane	27.6	1.0	0.67	ug/l	25.0	ND	110	47-144			

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APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Matrix Spike Analyzed: 09/17/2012 (12I0548-MS1)					**Source: PVI0875-01**						
2-Butanone (MEK)	17.3	5.0	2.2	ug/l	25.0	ND	69	31-143			
tert-Butylbenzene	28.7	0.50	0.25	ug/l	25.0	ND	115	74-135			
n-Butylbenzene	26.4	0.50	0.21	ug/l	25.0	ND	105	69-140			
sec-Butylbenzene	26.0	0.50	0.23	ug/l	25.0	ND	104	72-136			
Carbon disulfide	27.3	1.0	0.86	ug/l	25.0	ND	109	45-150			
Carbon tetrachloride	31.6	0.50	0.15	ug/l	25.0	0.210	126	65-147			
Chlorobenzene	25.2	0.50	0.17	ug/l	25.0	ND	101	70-130			
Chloroethane	25.4	0.50	0.25	ug/l	25.0	ND	102	57-139			
Chloroform	29.0	0.50	0.13	ug/l	25.0	4.84	97	63-131			
Chloromethane	28.0	1.0	0.21	ug/l	25.0	ND	112	47-134			
4-Chlorotoluene	26.4	0.50	0.20	ug/l	25.0	ND	106	70-130			
2-Chlorotoluene	26.4	0.50	0.17	ug/l	25.0	ND	106	71-131			
1,2-Dibromo-3-chloropropane	26.7	5.0	0.82	ug/l	25.0	ND	107	53-145			*V1*
Dibromochloromethane	26.3	0.50	0.22	ug/l	25.0	ND	105	65-134			
1,2-Dibromoethane (EDB)	23.4	0.50	0.30	ug/l	25.0	ND	94	70-130			
Dibromomethane	22.3	0.50	0.26	ug/l	25.0	ND	89	66-136			
1,2-Dichlorobenzene	25.0	0.50	0.22	ug/l	25.0	ND	100	70-130			
1,4-Dichlorobenzene	24.7	0.50	0.17	ug/l	25.0	ND	99	70-130			
1,3-Dichlorobenzene	26.4	0.50	0.14	ug/l	25.0	ND	106	70-130			
Dichlorodifluoromethane	30.0	0.50	0.15	ug/l	25.0	ND	120	40-148			
1,1-Dichloroethane	23.8	0.50	0.14	ug/l	25.0	0.160	95	62-130			
1,2-Dichloroethane	25.9	0.50	0.31	ug/l	25.0	ND	104	54-147			
cis-1,2-Dichloroethene	35.0	0.50	0.21	ug/l	25.0	10.9	96	65-127			
trans-1,2-Dichloroethene	23.9	0.50	0.29	ug/l	25.0	ND	96	62-131			
1,1-Dichloroethene	55.0	0.50	0.23	ug/l	25.0	26.3	115	57-137			
1,2-Dichloropropane	23.7	0.50	0.23	ug/l	25.0	ND	95	68-126			
2,2-Dichloropropane	28.2	1.0	0.18	ug/l	25.0	ND	113	60-146			
1,3-Dichloropropane	21.7	0.50	0.23	ug/l	25.0	ND	87	68-129			
cis-1,3-Dichloropropene	23.8	0.50	0.14	ug/l	25.0	ND	95	63-135			
1,1-Dichloropropene	20.9	0.50	0.20	ug/l	25.0	ND	83	64-134			
trans-1,3-Dichloropropene	24.7	0.50	0.47	ug/l	25.0	ND	99	58-136			

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Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Matrix Spike Analyzed: 09/17/2012 (12I0548-MS1)					**Source: PVI0875-01**						
Ethylbenzene	26.2	0.50	0.32	ug/l	25.0	ND	105	74-134			
Hexachlorobutadiene	37.9	1.0	0.28	ug/l	25.0	ND	152	69-150			*V1, M1*
2-Hexanone	15.1	5.0	1.5	ug/l	25.0	ND	61	40-142			
Iodomethane	31.7	2.5	0.21	ug/l	25.0	ND	127	53-150			
Isopropylbenzene	29.4	0.50	0.26	ug/l	25.0	ND	118	80-146			
p-Isopropyltoluene	28.5	0.50	0.21	ug/l	25.0	ND	114	70-133			
Methyl-tert-butyl Ether (MTBE)	23.8	0.50	0.22	ug/l	25.0	ND	95	67-138			
Methylene Chloride	25.9	1.0	0.67	ug/l	25.0	1.40	98	55-133			
4-Methyl-2-pentanone (MIBK)	18.7	2.5	1.3	ug/l	25.0	ND	75	52-143			
Naphthalene	25.7	2.5	0.51	ug/l	25.0	ND	103	67-146			
n-Propylbenzene	26.7	0.50	0.21	ug/l	25.0	ND	107	74-140			
Styrene	23.9	0.50	0.17	ug/l	25.0	ND	96	43-144			
1,1,1,2-Tetrachloroethane	27.7	0.50	0.35	ug/l	25.0	ND	111	70-130			
1,1,2,2-Tetrachloroethane	22.0	0.50	0.33	ug/l	25.0	ND	88	63-137			
Tetrachloroethene	43.1	0.50	0.18	ug/l	25.0	18.4	99	67-131			
Toluene	25.4	0.50	0.28	ug/l	25.0	0.290	100	65-138			
1,2,4-Trichlorobenzene	29.1	1.0	0.32	ug/l	25.0	ND	116	74-138			
1,2,3-Trichlorobenzene	27.2	1.0	0.45	ug/l	25.0	ND	109	74-139			
1,1,1-Trichloroethane	92.9	0.50	0.15	ug/l	25.0	65.2	111	64-138			
1,1,2-Trichloroethane	24.4	0.50	0.31	ug/l	25.0	ND	98	63-132			
Trichloroethene	796	0.50	0.24	ug/l	25.0	809	-49	66-132			*M3*
Trichlorofluoromethane	36.1	0.50	0.15	ug/l	25.0	ND	144	62-150			
1,2,3-Trichloropropane	24.9	2.0	0.78	ug/l	25.0	ND	100	68-130			
1,2,4-Trimethylbenzene	28.0	0.50	0.25	ug/l	25.0	ND	112	63-135			
1,3,5-Trimethylbenzene	28.1	0.50	0.21	ug/l	25.0	ND	112	66-137			
Vinyl Acetate	22.0	2.0	0.81	ug/l	25.0	ND	88	47-150			
Vinyl chloride	26.8	0.50	0.18	ug/l	25.0	ND	107	55-146			
Xylenes, Total	52.9	1.0	0.86	ug/l	50.0	ND	106	68-131			
Surrogate: 4-Bromofluorobenzene	*26.6*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*25.7*			*ug/l*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*70-130*			

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Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Matrix Spike Dup Analyzed: 09/17/2012 (12I0548-MSD1)						**Source: PVI0875-01**					
Acetone	18.6	10	7.3	ug/l	25.0	ND	74	29-139	2	35	
Benzene	23.4	0.50	0.12	ug/l	25.0	ND	94	68-131	2	32	
Bromobenzene	26.1	0.50	0.14	ug/l	25.0	ND	104	70-130	3	28	
Bromochloromethane	24.9	0.50	0.27	ug/l	25.0	ND	100	64-132	4	35	
Bromodichloromethane	25.4	0.50	0.23	ug/l	25.0	10.6	59	63-138	2	31	*M2*
Bromoform	26.8	1.0	0.37	ug/l	25.0	ND	107	60-128	0.3	31	
Bromomethane	27.8	1.0	0.67	ug/l	25.0	ND	111	47-144	0.8	35	
2-Butanone (MEK)	17.4	5.0	2.2	ug/l	25.0	ND	69	31-143	0.5	35	
tert-Butylbenzene	28.4	0.50	0.25	ug/l	25.0	ND	114	74-135	1	32	
n-Butylbenzene	25.3	0.50	0.21	ug/l	25.0	ND	101	69-140	4	32	
sec-Butylbenzene	26.0	0.50	0.23	ug/l	25.0	ND	104	72-136	0.08	33	
Carbon disulfide	28.6	1.0	0.86	ug/l	25.0	ND	115	45-150	5	35	
Carbon tetrachloride	30.2	0.50	0.15	ug/l	25.0	0.210	120	65-147	5	35	
Chlorobenzene	26.4	0.50	0.17	ug/l	25.0	ND	106	70-130	5	30	
Chloroethane	27.3	0.50	0.25	ug/l	25.0	ND	109	57-139	7	35	
Chloroform	30.1	0.50	0.13	ug/l	25.0	4.84	101	63-131	4	33	
Chloromethane	27.6	1.0	0.21	ug/l	25.0	ND	111	47-134	1	35	
4-Chlorotoluene	26.6	0.50	0.20	ug/l	25.0	ND	106	70-130	0.8	28	
2-Chlorotoluene	26.0	0.50	0.17	ug/l	25.0	ND	104	71-131	2	29	
1,2-Dibromo-3-chloropropane	27.7	5.0	0.82	ug/l	25.0	ND	111	53-145	4	35	*V1*
Dibromochloromethane	28.2	0.50	0.22	ug/l	25.0	ND	113	65-134	7	33	
1,2-Dibromoethane (EDB)	26.2	0.50	0.30	ug/l	25.0	ND	105	70-130	11	33	
Dibromomethane	23.6	0.50	0.26	ug/l	25.0	ND	94	66-136	6	35	
1,2-Dichlorobenzene	26.6	0.50	0.22	ug/l	25.0	ND	107	70-130	6	27	
1,4-Dichlorobenzene	25.0	0.50	0.17	ug/l	25.0	ND	100	70-130	1	26	
1,3-Dichlorobenzene	25.5	0.50	0.14	ug/l	25.0	ND	102	70-130	4	28	
Dichlorodifluoromethane	29.5	0.50	0.15	ug/l	25.0	ND	118	40-148	1	35	
1,1-Dichloroethane	24.0	0.50	0.14	ug/l	25.0	0.160	95	62-130	1	34	
1,2-Dichloroethane	28.4	0.50	0.31	ug/l	25.0	ND	114	54-147	9	35	
cis-1,2-Dichloroethene	36.0	0.50	0.21	ug/l	25.0	10.9	101	65-127	3	34	
trans-1,2-Dichloroethene	24.0	0.50	0.29	ug/l	25.0	ND	96	62-131	0.5	35	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Matrix Spike Dup Analyzed: 09/17/2012 (12I0548-MSD1)						**Source: PVI0875-01**					
1,1-Dichloroethene	53.7	0.50	0.23	ug/l	25.0	26.3	109	57-137	2	35	
1,2-Dichloropropane	24.6	0.50	0.23	ug/l	25.0	ND	98	68-126	3	32	
2,2-Dichloropropane	28.7	1.0	0.18	ug/l	25.0	ND	115	60-146	2	35	
1,3-Dichloropropane	22.8	0.50	0.23	ug/l	25.0	ND	91	68-129	5	33	
cis-1,3-Dichloropropene	24.4	0.50	0.14	ug/l	25.0	ND	98	63-135	2	35	
1,1-Dichloropropene	19.7	0.50	0.20	ug/l	25.0	ND	79	64-134	6	34	
trans-1,3-Dichloropropene	25.5	0.50	0.47	ug/l	25.0	ND	102	58-136	3	35	
Ethylbenzene	26.6	0.50	0.32	ug/l	25.0	ND	106	74-134	1	32	
Hexachlorobutadiene	35.1	1.0	0.28	ug/l	25.0	ND	140	69-150	8	32	*V1*
2-Hexanone	17.6	5.0	1.5	ug/l	25.0	ND	70	40-142	15	35	
Iodomethane	30.0	2.5	0.21	ug/l	25.0	ND	120	53-150	5	35	
Isopropylbenzene	28.7	0.50	0.26	ug/l	25.0	ND	115	80-146	2	32	
p-Isopropyltoluene	27.3	0.50	0.21	ug/l	25.0	ND	109	70-133	4	32	
Methyl-tert-butyl Ether (MTBE)	25.2	0.50	0.22	ug/l	25.0	ND	101	67-138	6	21	
Methylene Chloride	26.0	1.0	0.67	ug/l	25.0	1.40	99	55-133	0.5	35	
4-Methyl-2-pentanone (MIBK)	20.1	2.5	1.3	ug/l	25.0	ND	80	52-143	7	35	
Naphthalene	26.2	2.5	0.51	ug/l	25.0	ND	105	67-146	2	29	
n-Propylbenzene	26.4	0.50	0.21	ug/l	25.0	ND	106	74-140	1	32	
Styrene	24.0	0.50	0.17	ug/l	25.0	ND	96	43-144	0.3	35	
1,1,1,2-Tetrachloroethane	28.0	0.50	0.35	ug/l	25.0	ND	112	70-130	0.8	30	
1,1,2,2-Tetrachloroethane	23.0	0.50	0.33	ug/l	25.0	ND	92	63-137	5	32	
Tetrachloroethene	42.0	0.50	0.18	ug/l	25.0	18.4	94	67-131	3	31	
Toluene	25.2	0.50	0.28	ug/l	25.0	0.290	100	65-138	0.7	33	
1,2,4-Trichlorobenzene	27.9	1.0	0.32	ug/l	25.0	ND	112	74-138	4	26	
1,2,3-Trichlorobenzene	28.2	1.0	0.45	ug/l	25.0	ND	113	74-139	4	26	
1,1,1-Trichloroethane	91.8	0.50	0.15	ug/l	25.0	65.2	106	64-138	1	35	
1,1,2-Trichloroethane	25.1	0.50	0.31	ug/l	25.0	ND	101	63-132	3	35	
Trichloroethene	756	0.50	0.24	ug/l	25.0	809	-209	66-132	5	29	*M3*
Trichlorofluoromethane	34.8	0.50	0.15	ug/l	25.0	ND	139	62-150	4	35	
1,2,3-Trichloropropane	26.0	2.0	0.78	ug/l	25.0	ND	104	68-130	4	32	
1,2,4-Trimethylbenzene	27.6	0.50	0.25	ug/l	25.0	ND	110	63-135	1	31	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS-Corporate
P.O. Box 53999, M/S 9307
Phoenix, AZ 85072-3999
Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12I0548 Extracted: 09/17/12											
Matrix Spike Dup Analyzed: 09/17/2012 (12I0548-MSD1)						**Source: PVI0875-01**					
1,3,5-Trimethylbenzene	28.3	0.50	0.21	ug/l	25.0	ND	113	66-137	1	30	
Vinyl Acetate	23.3	2.0	0.81	ug/l	25.0	ND	93	47-150	5	35	
Vinyl chloride	26.9	0.50	0.18	ug/l	25.0	ND	108	55-146	0.4	35	
Xylenes, Total	53.7	1.0	0.86	ug/l	50.0	ND	107	68-131	2	31	
Surrogate: 4-Bromofluorobenzene	*26.9*			*ug/l*	*25.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*98*	*70-130*			

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Attention: Judy Heywood

Project ID: APS 501,502, & 505

Report Number: PVI0867

Sampled: 09/13/12
Received: 09/13/12

DATA QUALIFIERS AND DEFINITIONS

E4	Concentration estimated. Analyte was detected below laboratory minimum reporting limit (MRL).
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Sampled: 09/13/12
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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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CALIBRATION DATA

METHOD: 8260

DATE: 08/10/12

TestAmerica
Phoenix

Instrument ID	GCMS 2
Date:	8/10/12
Analyst	mm
Method(s)	8260/624
50 ppm Cal. Std.	PV04887
2.5 ppm Cal. Std.	PV04888
500 / 250 / 50 ppm EtOH/TBA/Surr Cal. Std.	PV04791
50 / 25 / 5 ppm EtOH/TBA/Surr Cal. Std.	PV04792
50 ppm SS Std.	PV04717
500 / 250 ppm EtOH/TBA SS Std.	PV04303
Tertiary Std.	NA

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: _____ Date: 8/13/12

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\081012

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	08101201.d	1.	TUNE		10 Aug 2012 06:39
2	2	08101202.d	1.	25 PPB CCV		10 Aug 2012 06:57
3	3	08101203.d	1.	BLANK		10 Aug 2012 07:30
4	4	08101204.d	1.	0.5 PPB ICAL		10 Aug 2012 08:03
5	5	08101205.d	1.	1.0 PPB ICAL		10 Aug 2012 08:36
6	6	08101206.d	1.	2.0 PPB ICAL		10 Aug 2012 09:08
7	7	08101207.d	1.	5.0 PPB ICAL		10 Aug 2012 09:41
8	8	08101208.d	1.	10 PPB ICAL		10 Aug 2012 10:14
9	9	08101209.d	1.	25 PPB ICAL		10 Aug 2012 10:46
10	10	08101210.d	1.	50 PPB ICAL		10 Aug 2012 11:19
11	11	08101211.d	1.	100 PPB ICAL		10 Aug 2012 11:51
12	12	08101212.d	1.	200 PPB ICAL		10 Aug 2012 12:24
13	13	08101213.d	1.	BLANK		10 Aug 2012 12:57
14	1	08101214.d	1.	TUNE		10 Aug 2012 13:24
15	2	08101215.d	1.	25 PPB ICV/SS		10 Aug 2012 13:40
16	3	08101216.d	1.	12H0456-BS1		10 Aug 2012 14:13
17	4	08101217.d	1.	12H0456-BSD1		10 Aug 2012 14:45
18	5	08101218.d	1.	12H0456-BLK1		10 Aug 2012 15:18
19	6	08101219.d	1.	PVH0139-08@TB		10 Aug 2012 15:57
20	7	08101220.d	1.	PVH0159-04@TB		10 Aug 2012 16:32
21	8	08101221.d	1.	PVH0232-01	SOURCE	10 Aug 2012 17:05
22	9	08101222.d	1.	12H0456-MS1		10 Aug 2012 17:37
23	10	08101223.d	1.	12H0456-MSD1		10 Aug 2012 18:10
24	11	08101224.d	1.	PVH0620-01		10 Aug 2012 18:43
25	12	08101225.d	1.	PVH0620-02		10 Aug 2012 19:15
26	13	08101226.d	1.	PVH0257-05		10 Aug 2012 19:48
27	14	08101227.d	1.	PVH0257-06		10 Aug 2012 20:21
28	15	08101228.d	1.	PVH0257-07		10 Aug 2012 20:53
29	16	08101229.d	1.	PVH0257-08		10 Aug 2012 21:26
30	17	08101230.d	1.	PVH0257-09		10 Aug 2012 21:58
31	18	08101231.d	1.	PVH0159-03		10 Aug 2012 22:31
32	19	08101232.d	1.	PVH0568-01	100X	10 Aug 2012 23:04
33	20	08101233.d	1.	PVH0697-01	100X	10 Aug 2012 23:36
34	21	08101234.d	1.	PVH0569-01	100X	11 Aug 2012 00:09
35	22	08101235.d	1.	PVH0698-01	100X	11 Aug 2012 00:41
36	23	08101236.d	1.	PVH0202-01	100000X	11 Aug 2012 01:14

8/13/12

MM 8/13/12

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GC/MS 2 DAILY LOG SUMMARY

DATE: 8/10/12 QC BATCH # (s) : 12H0456

ANALYST: mm SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	08101201	Tunc	2µL	NA	8260	NA	
2	02	25 ppb CCV	✓			H_2O	DMC
3	03	Blank	✓				
4	04	0.5 ppb ICAL	✓				
5	05	1.0	✓				
6	06	2.0	✓				
7	07	5.0	✓				
8	08	10	✓				
9	09	25	✓				
10	10	50	✓				
11	11	100	✓				
12	12	200	✓				
13	13	Blank	✓				DMC cleanout
1	14	Tunc	2µL			NA	
2	15	25 ppb ICV/SS	✓			H_2O	
3	16	12H0456-BS1	✓	NA			
4	17	-BSD1	✓				
5	18	-BLK1	✓				
6	19	PVH0139-08A	✓	✓			TB
7	20	PVH0159-04A	✓	✓			TB
8	21	PVH0232-01A	✓	✓			Soil
9	22	12H0456-MS1	✓	✓			
10	23	-MSD1	✓	✓			
11	24	PVH0020-01A	✓	✓			
12	25	-02A	✓	✓			
13	26	PVH0257-05A	✓	✓			
14	27	-06A	✓	✓			
15	28	-07A	✓	✓			
16	29	-08A	✓	✓			
17	30	-09A	✓	✓			RL10X RDLE

STANDARD ID NUMBERS

ICV / H_2O LCS: PV0477/4303

CCV/CALIBRATION STD: PV0488/4792/4887/4791

Internal Std: 4795

IS/Surrogate/BFB: 4794/4559

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL ICV SS + 5µL IS/Surr → 10ml H_2

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: mm 8/13/12

SEQUENCE REVIEWED By/Date: ✓

FINAL REVIEWER / Date: 8/13/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 08/10/12 QC BATCH # (s) : 12H0450

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 081012.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
18	31	PVH0159-03A	✓	7	~~8260~~ ~~8260~~ eh 081012 8260	H_2O	RL 10X T All vials pH=7
19	32	0508-01D	100 ml → 10 ml H_2O	11			100X WM
20	33	0097-01D	100 ml → 10 ml H_2O	11			100X WM
21	34	0509-01D	100 ml → 10 ml H_2O	11			100X WM
22	35	0098-01D	100 ml → 10 ml H_2O	11			100X WM
23	310	0202-01B	1 ml → 10 ml H_2O ⇒ 1 ml → 10 ml H_2O	11			100,000X odor
							RL ~~10~~ 5 000,000X MEK, A, T

eh 081012

STANDARD ID NUMBERS

ICV / H_2O LCS:

CCV/CALIBRATION STD: see pg. 1

Internal Std:

IS/Surrogate/BFB: see pg. 1

REQUIRED REVIEWS

25 ppb CCV PREPARATION:

20 ppb CCV PREPARATION:

ARCHON REVIEWED By/Date: see pg. 12

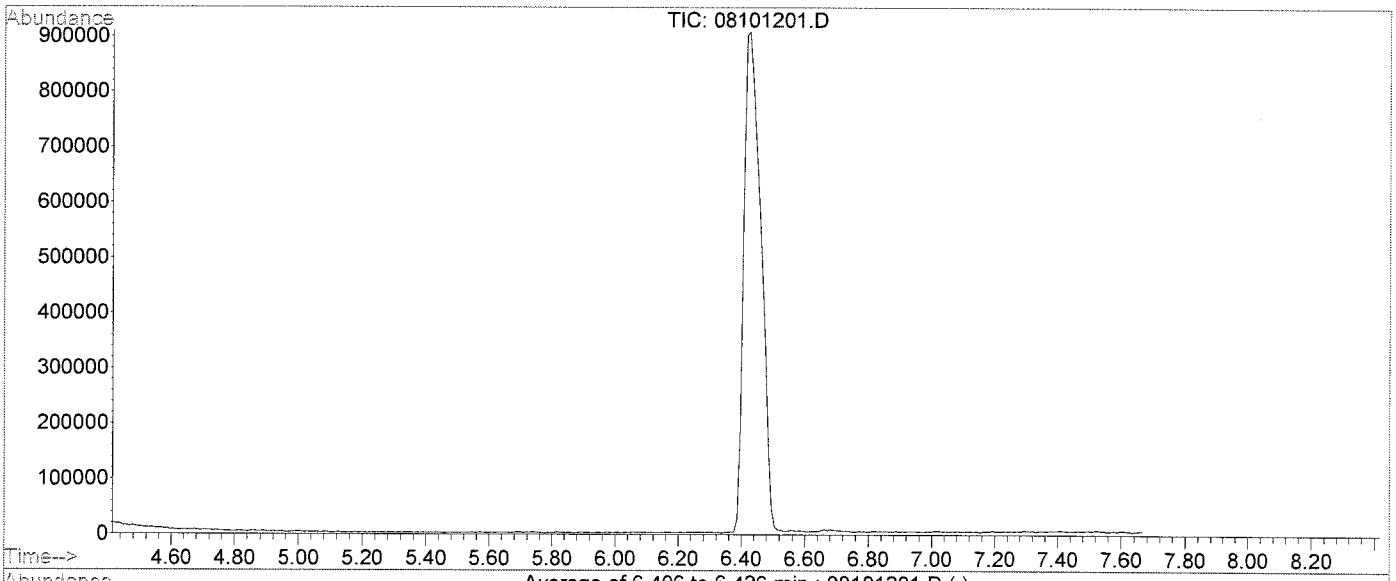
SEQUENCE REVIEWED By/Date:

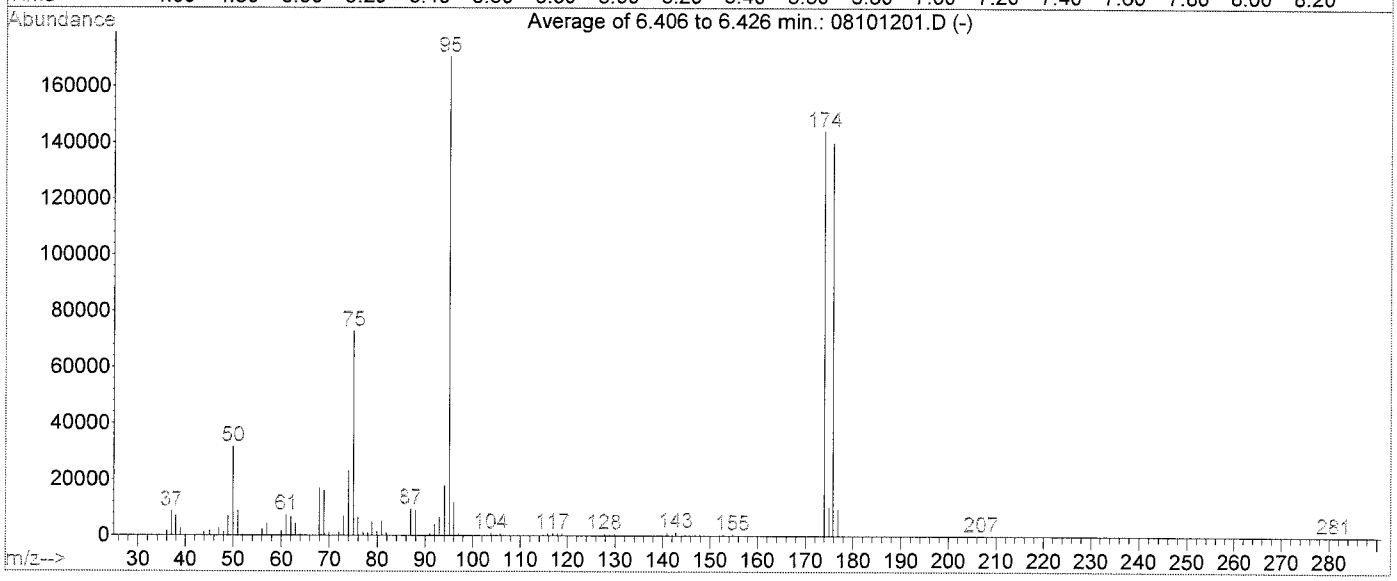
FINAL REVIEWER / Date: RR 8/13/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101201.D Vial: 1
Acq On : 10 Aug 2012 6:39 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration

8/13/12





Spectrum Information: Average of 6.406 to 6.426 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	31531	PASS
75	95	30	60	42.7	72755	PASS
95	95	100	100	100.0	170560	PASS
96	95	5	9	6.9	11734	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	144072	PASS
175	174	5	9	7.0	10104	PASS
176	174	95	101	97.0	139779	PASS
177	176	5	9	6.8	9517	PASS

MM 8/13/12

08101201.D 080712.M Fri Aug 10 12:47:05 2012

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.28	117	292809	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	131913	28.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.64%	
48) Toluene-d8	13.33	98	397025	26.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 107.76%	
62) 4-Bromofluorobenzene	16.95	95	111862	26.20 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 104.80%	
Target Compounds					Qvalue
2) Ethanol	5.47	45	748	20.03 ug/L	80
9) Bromomethane	5.29	94	868	0.15 ug/L #	4
12) Acetone	6.25	43	1787	1.44 ug/L #	62
14) 1,1-Dichloroethene	6.82	96	491	0.09 ug/L #	1
28) 2,2-Dichloropropane	9.30	77	770	0.10 ug/L #	49
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.41 ug/L #	32
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.11 ug/L #	39
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.12 ug/L #	59
84) Napthalene	21.84	128	1664	0.34 ug/L #	82

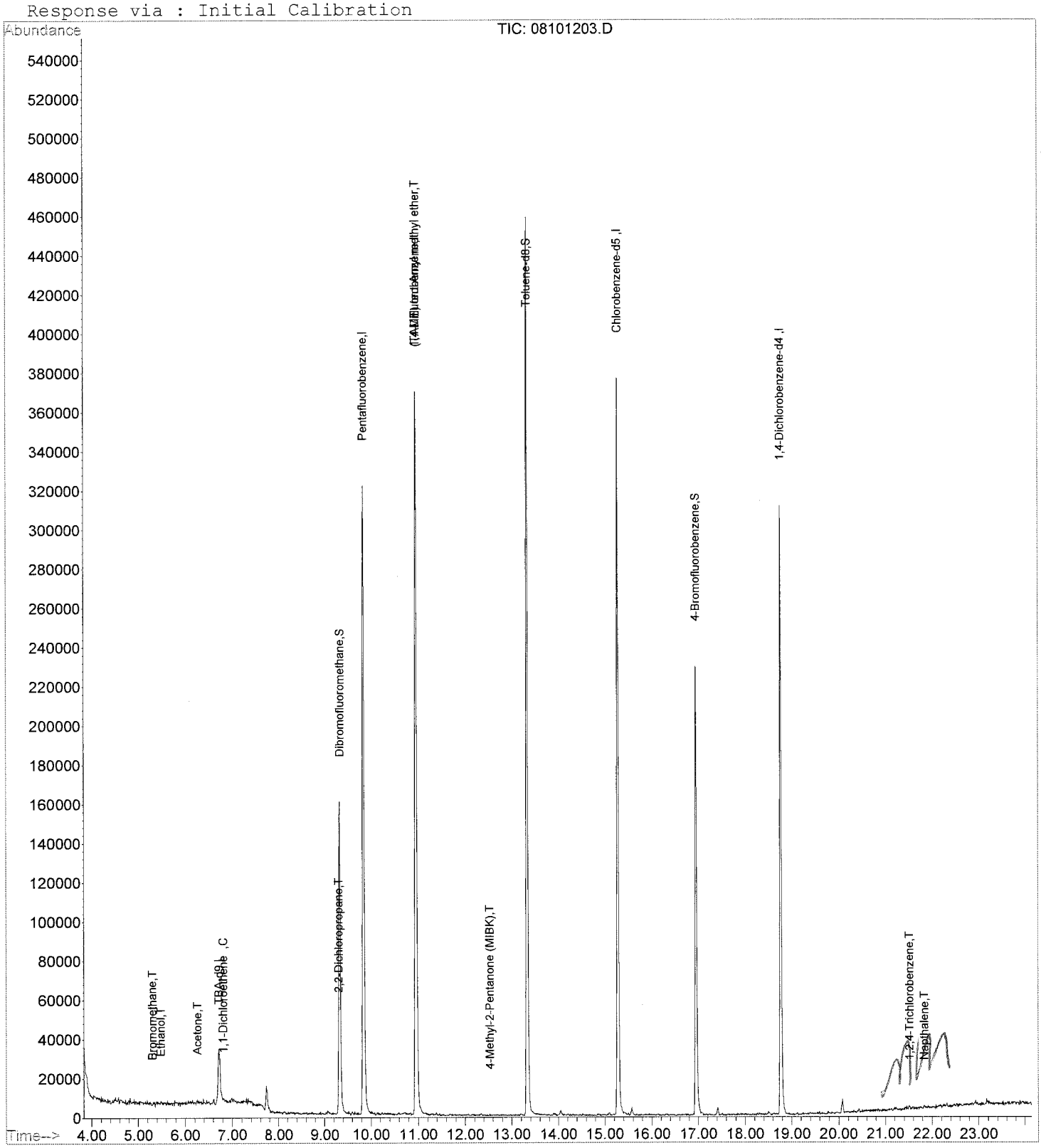
MM 8/13/12

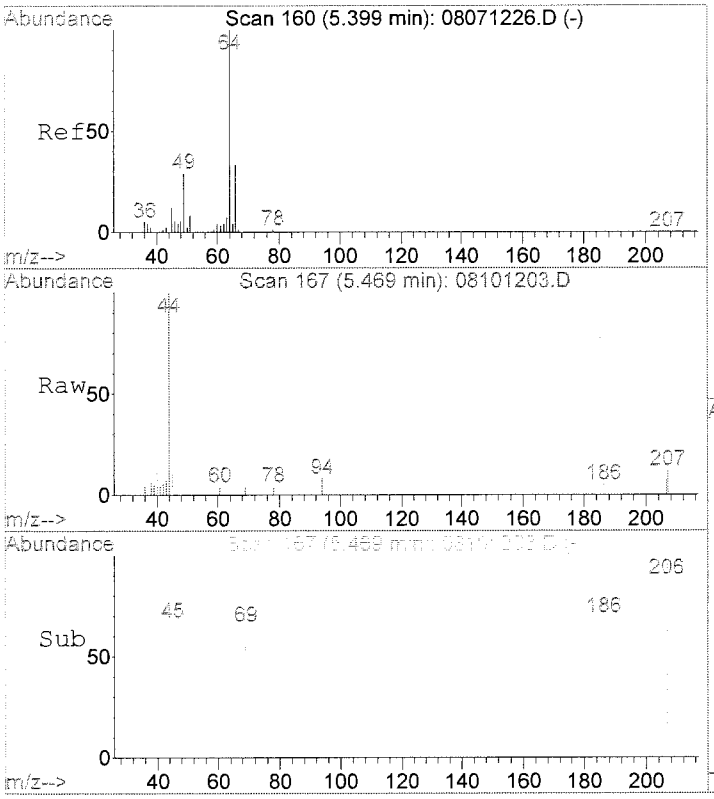
(#) = qualifier out of range (m) = manual integration
08101203.D 080712.M Fri Aug 10 12:47:36 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:47 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

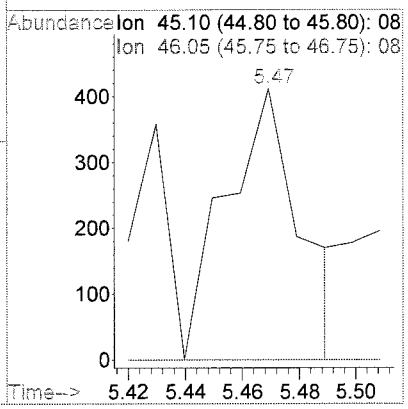


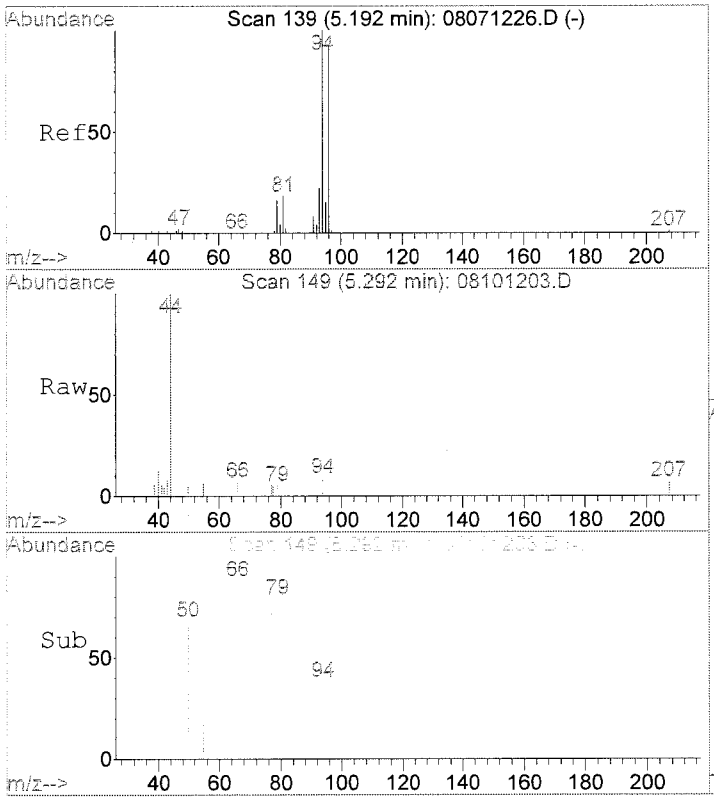


#2
Ethanol
Concen: 20.03 ug/L
RT: 5.47 min Scan# 167
Delta R.T. 0.07 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 748

Ion	Ratio	Lower	Upper
45	100		
46	26.2	18.6	58.6

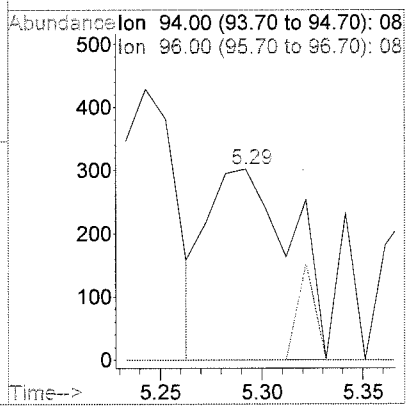


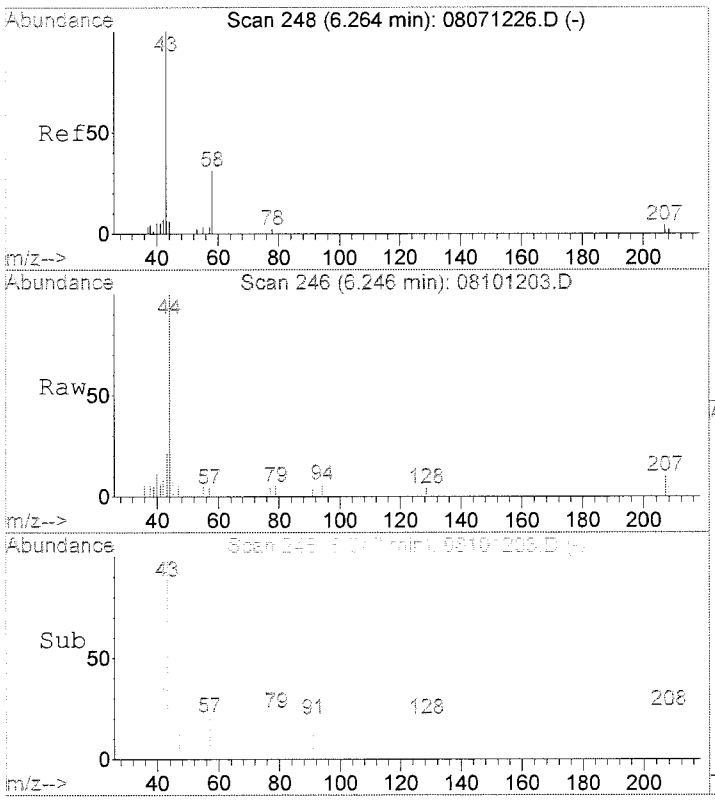


#9
Bromomethane
Concen: 0.15 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	73.6	110.4#

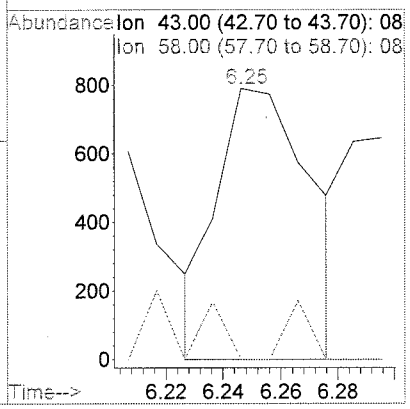


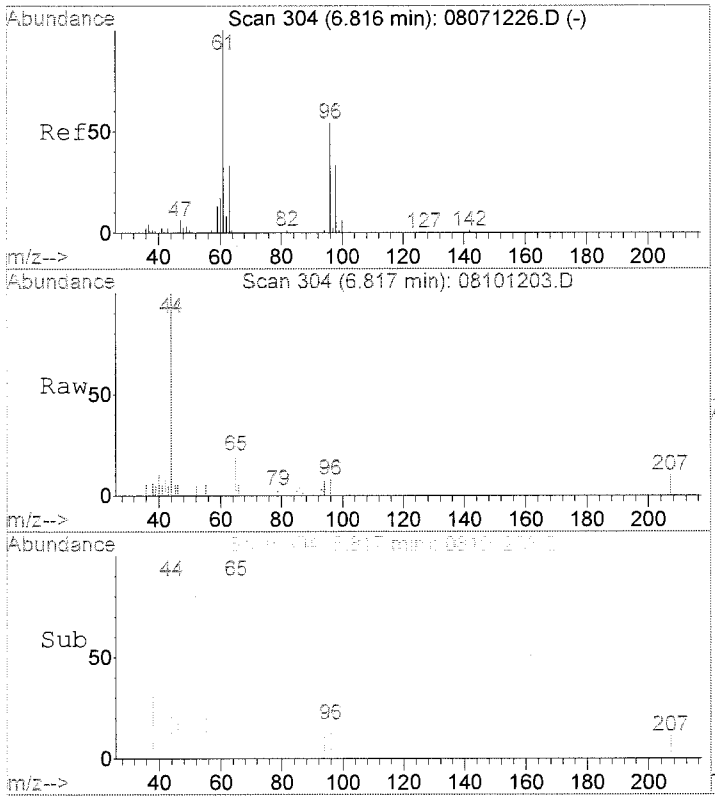


#12
Acetone
Concen: 1.44 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	19.5	29.3#

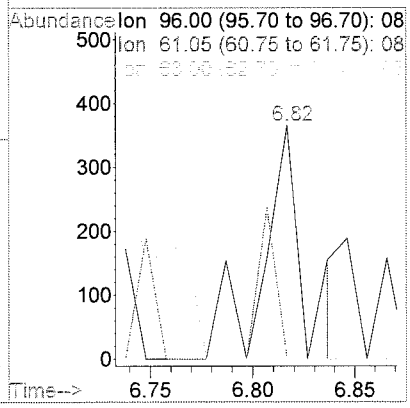


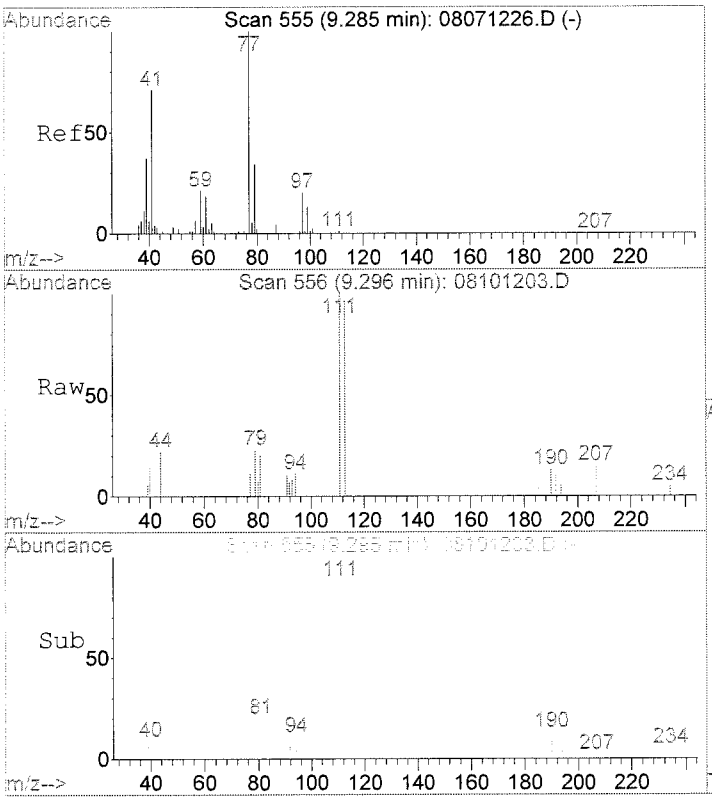


#14
1,1-Dichloroethene
Concen: 0.09 ug/L
RT: 6.82 min Scan# 304
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 96 Resp: 491

Ion	Ratio	Lower	Upper
96	100		
61	28.5	156.4	234.6#
63	0.0	51.6	77.4#

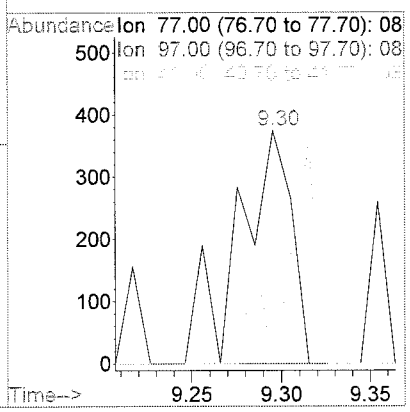


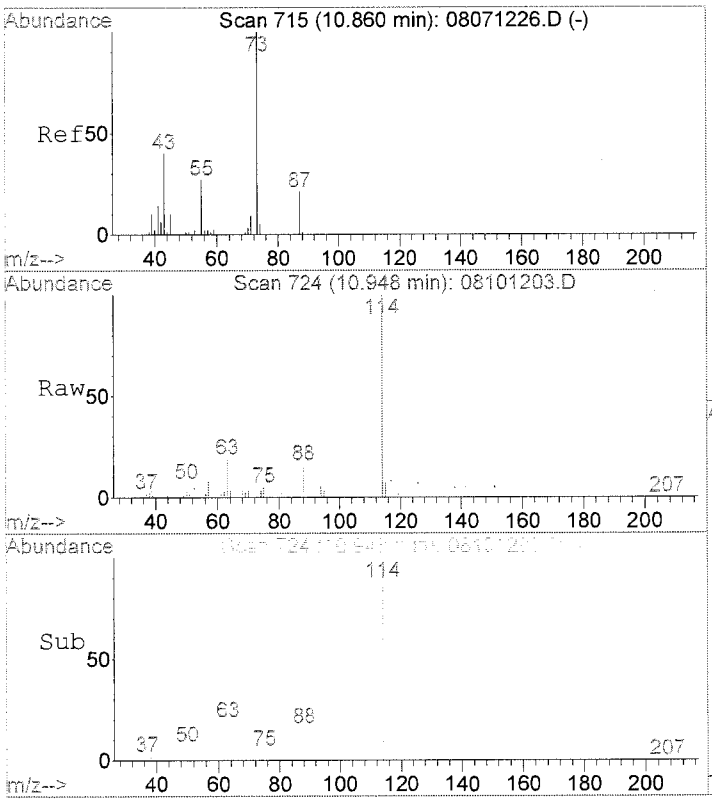


#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.2	24.2#
41	52.9	85.4	128.2#

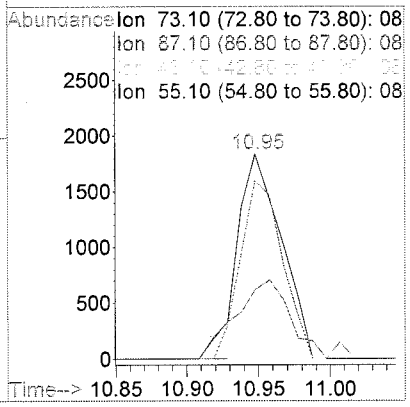


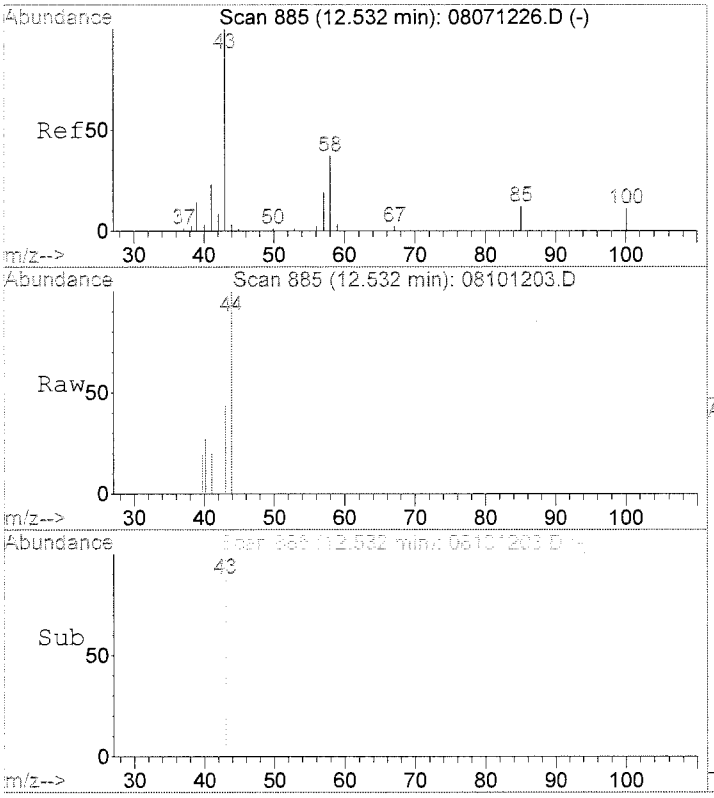


#34
(TAME) tert-Amyl methyl ether
Concen: 0.41 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	17.0	25.4#
43	5.7	32.2	48.4#
55	46.5	21.4	32.0#

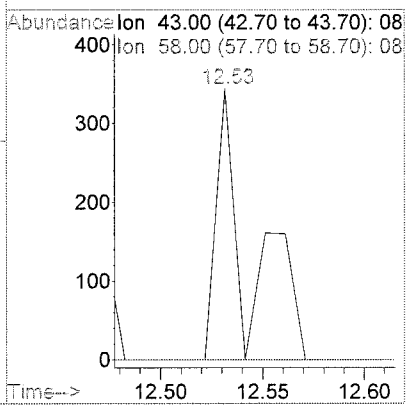


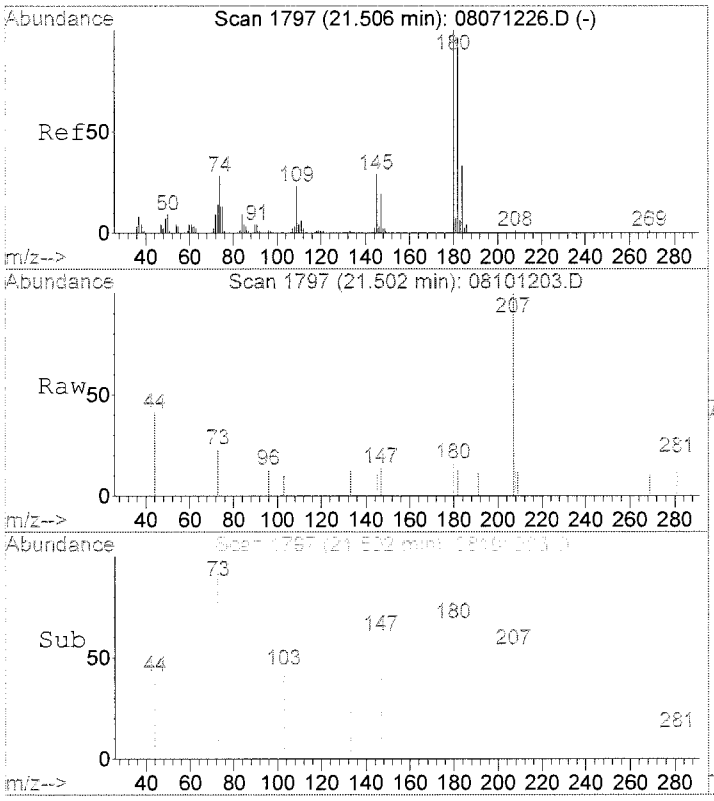


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.11 ug/L
RT: 12.53 min Scan# 885
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.5	42.7#

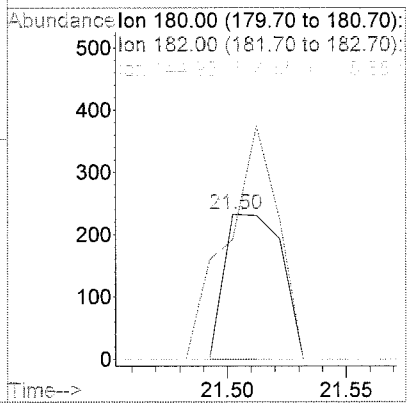




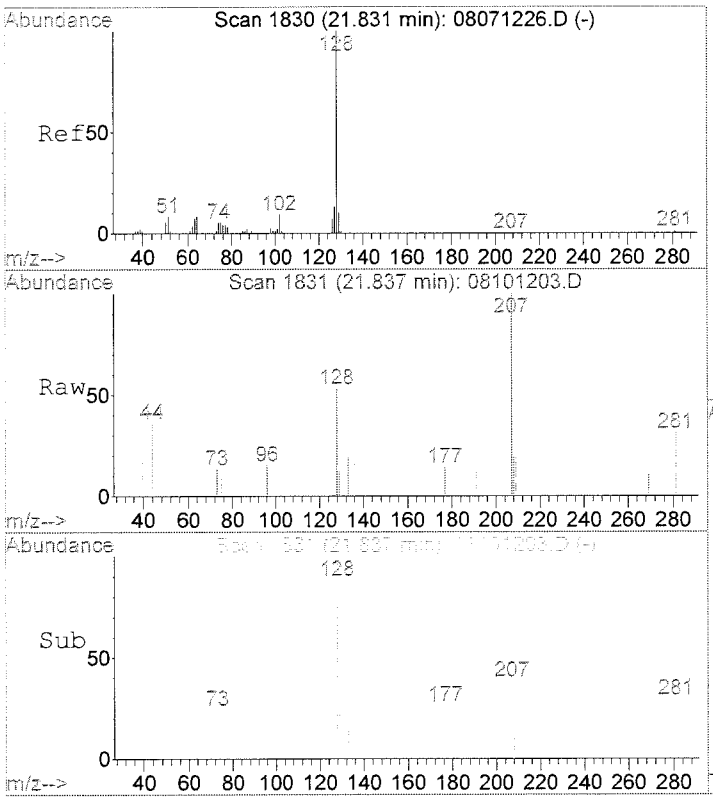
#83
1,2,4-Trichlorobenzene
Concen: 0.12 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	75.4	113.0#
145	25.5	21.9	32.9



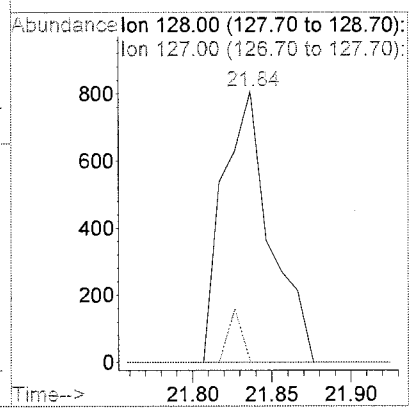
MM



#84
Napthalene
Concen: 0.34 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

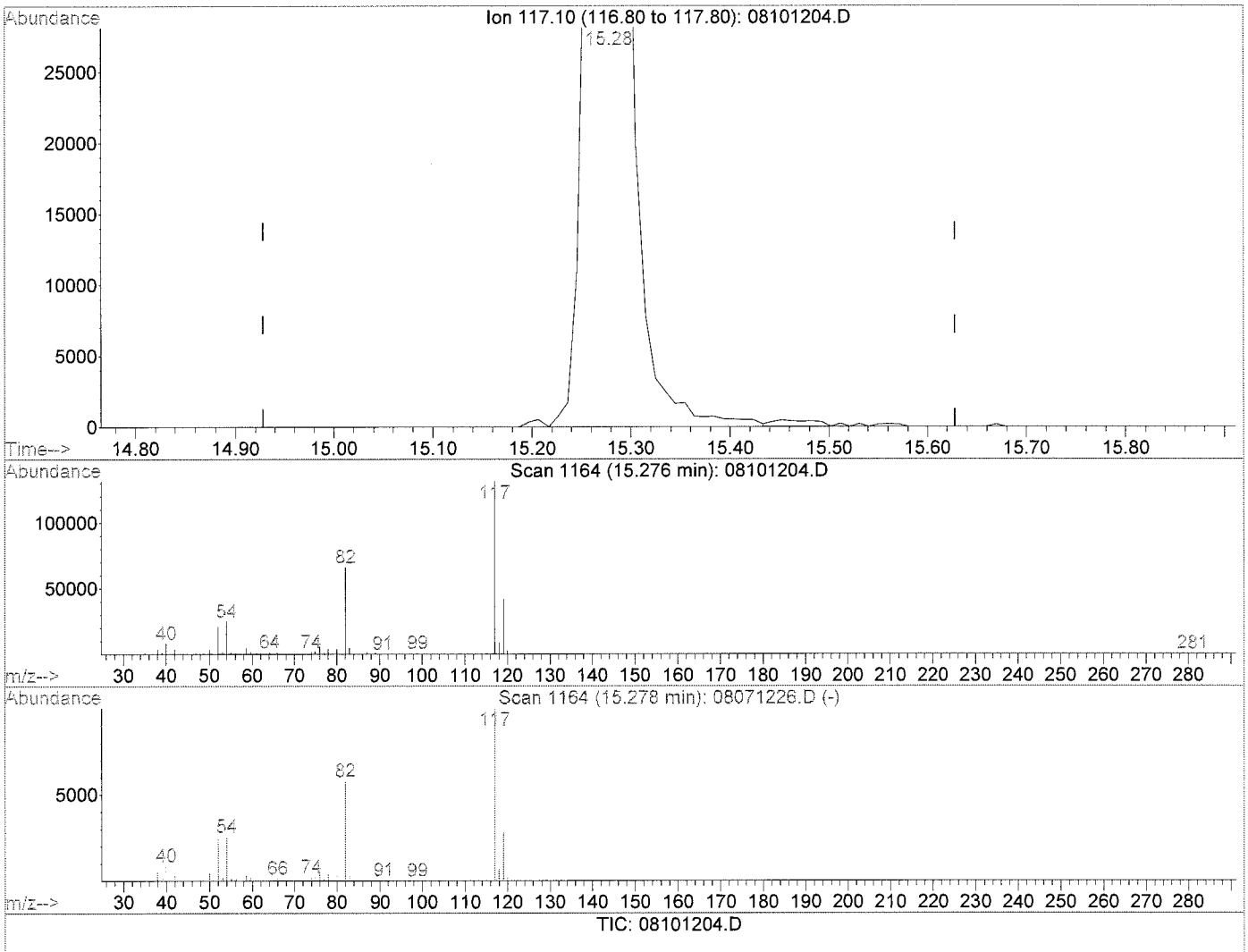
Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.2#



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

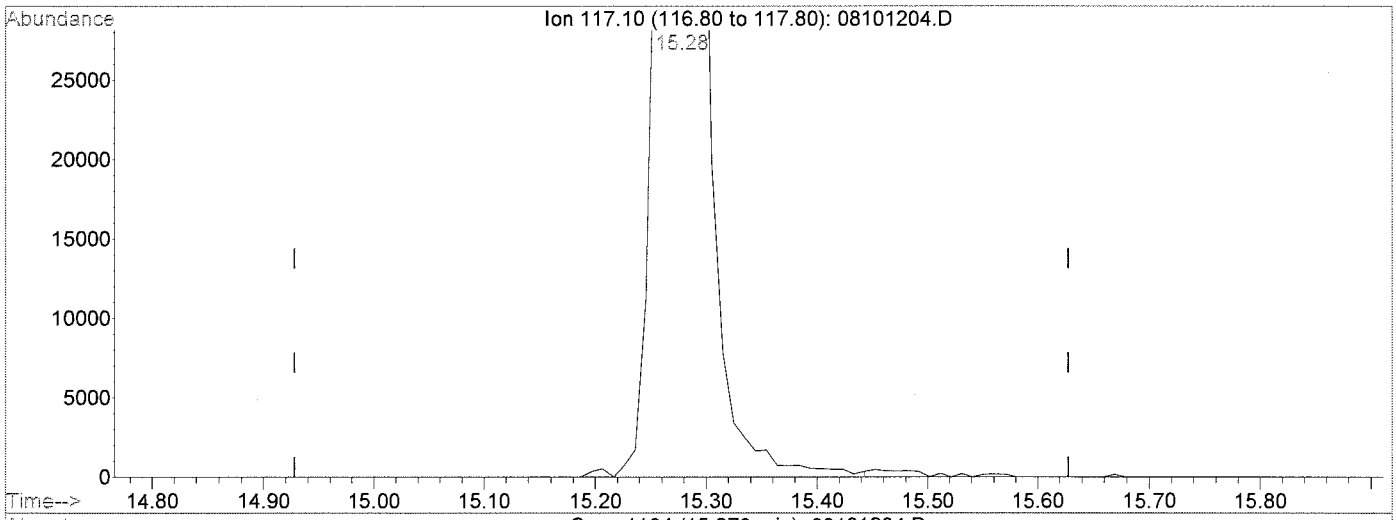
8/13/12

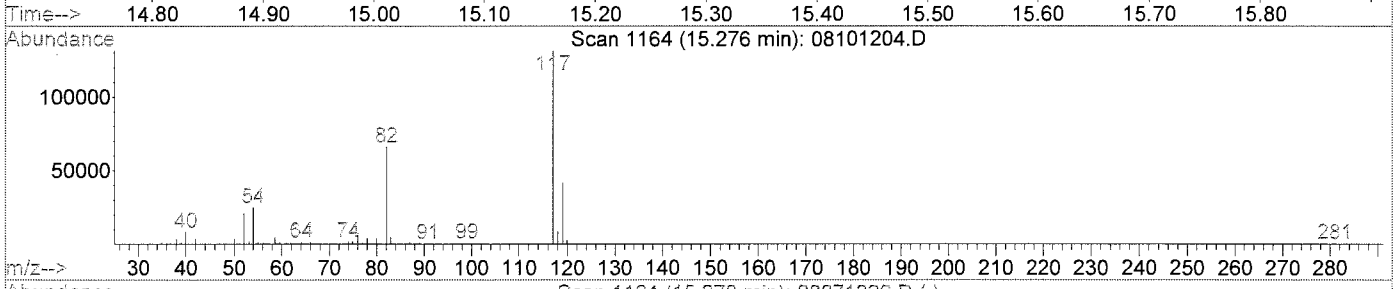
B CE MM 8/13/12

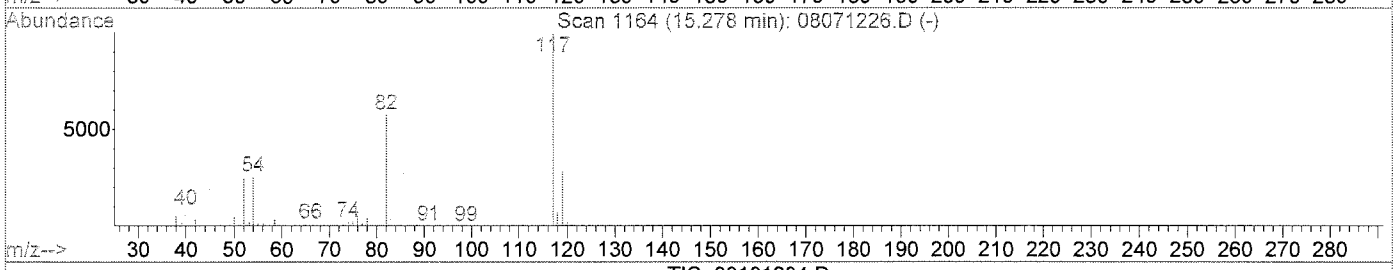
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285431

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285431m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.16%	
48) Toluene-d8	13.33	98	8308	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.36%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.55 ug/L	0.00
Spiked Amount 25.000			Recovery =	2.20%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.55 ug/L	100
6) Chloromethane	4.35	50	5533	0.52 ug/L	95
7) Vinyl Chloride	4.63	62	5041	0.61 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.47 ug/L #	91
11) Trichlorofluoromethane	6.11	101	4136	0.47 ug/L	91
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.51 ug/L #	88
14) 1,1-Dichloroethene	6.81	96	3218	0.62 ug/L #	74
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	73
16) Freon 113	7.08	101	3192	0.55 ug/L	96
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	22
18) trans-1,2-Dichloroethene	7.86	96	3858	0.69 ug/L #	73
19) MTBE	8.01	73	4605	0.51 ug/L	99
20) 1,1-Dichloroethane	8.18	63	5100	0.53 ug/L #	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.57 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.54 ug/L #	84
25) cis-1,2-Dichloroethene	8.91	96	3145	0.63 ug/L #	77
26) Bromochloromethane	9.13	128	1212	0.58 ug/L	95
27) Chloroform	9.17	83	4473	0.54 ug/L #	86
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.55 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.41 ug/L #	92
33) 1,1,1-Trichloroethane	10.14	97	3906	0.55 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.63 ug/L #	91
36) 1,1-Dichloropropene	10.37	75	4256	0.53 ug/L #	76
37) Carbon Tetrachloride	10.60	117	3505	0.50 ug/L #	96
38) Benzene	10.66	78	10648	0.57 ug/L #	90
39) Dibromomethane	11.40	93	1079	0.48 ug/L	92
40) 1,2-Dichloropropane	11.43	63	2436	0.53 ug/L	88

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	2807	0.54 ug/L		98
42)	Bromodichloromethane	11.55	83	2375	0.41 ug/L	#	91
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d		
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.50 ug/L		88
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d		
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.75 ug/L	#	81
47)	1,1,2-Trichloroethane	13.17	97	939	0.36 ug/L	#	86
49)	Toluene	13.43	92	5962	0.60 ug/L	#	96
51)	1,3-Dichloropropane	13.49	76	2084	0.43 ug/L	#	85
52)	2-Hexanone	0.00	43	0	N.D. d		
53)	Dibromochloromethane	13.85	129	1416	0.40 ug/L		91
54)	1,2-Dibromoethane	14.18	107	1351	0.49 ug/L		96
55)	Tetrachloroethene	14.41	164	2667	0.57 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.55 ug/L	#	1
57)	Chlorobenzene	15.32	112	5746	0.57 ug/L		93
58)	Ethylbenzene	15.58	91	10303	0.56 ug/L		98
59)	m,p-Xylenes	15.84	106	3739	0.56 ug/L		90
60)	Styrene	16.30	104	5068	0.58 ug/L	#	90
61)	o-Xylene	16.40	106	3948	0.65 ug/L	#	89
64)	Bromoform	16.01	173	894	0.59 ug/L		91
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.54 ug/L	#	88
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d		
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d		
68)	Isopropylbenzene	16.90	105	9688	0.59 ug/L		97
69)	Bromobenzene	17.24	156	2141	0.50 ug/L		90
70)	n-Propylbenzene	17.51	91	12373	0.59 ug/L		93
71)	2-Chlorotoluene	17.65	91	6496	0.53 ug/L		99
72)	4-Chlorotoluene	17.75	91	6322	0.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.57 ug/L		95
74)	tert-Butylbenzene	18.31	119	6960	0.60 ug/L		90
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.58 ug/L		91
76)	sec-Butylbenzene	18.61	105	11286	0.64 ug/L		94
77)	1,3-Dichlorobenzene	18.72	146	4471	0.62 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	4553	0.67 ug/L	#	89
79)	p-Isopropyltoluene	18.86	119	7691	0.59 ug/L	#	94
80)	1,2-Dichlorobenzene	19.28	146	3801	0.65 ug/L		96
81)	n-Butylbenzene	19.40	91	7498	0.62 ug/L		99
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d		
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.66 ug/L	#	90
84)	Napthalene	21.83	128	3246	0.68 ug/L	#	75
85)	Hexachlorobutadiene	21.89	225	1870	0.72 ug/L	#	79
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.69 ug/L	#	82

9

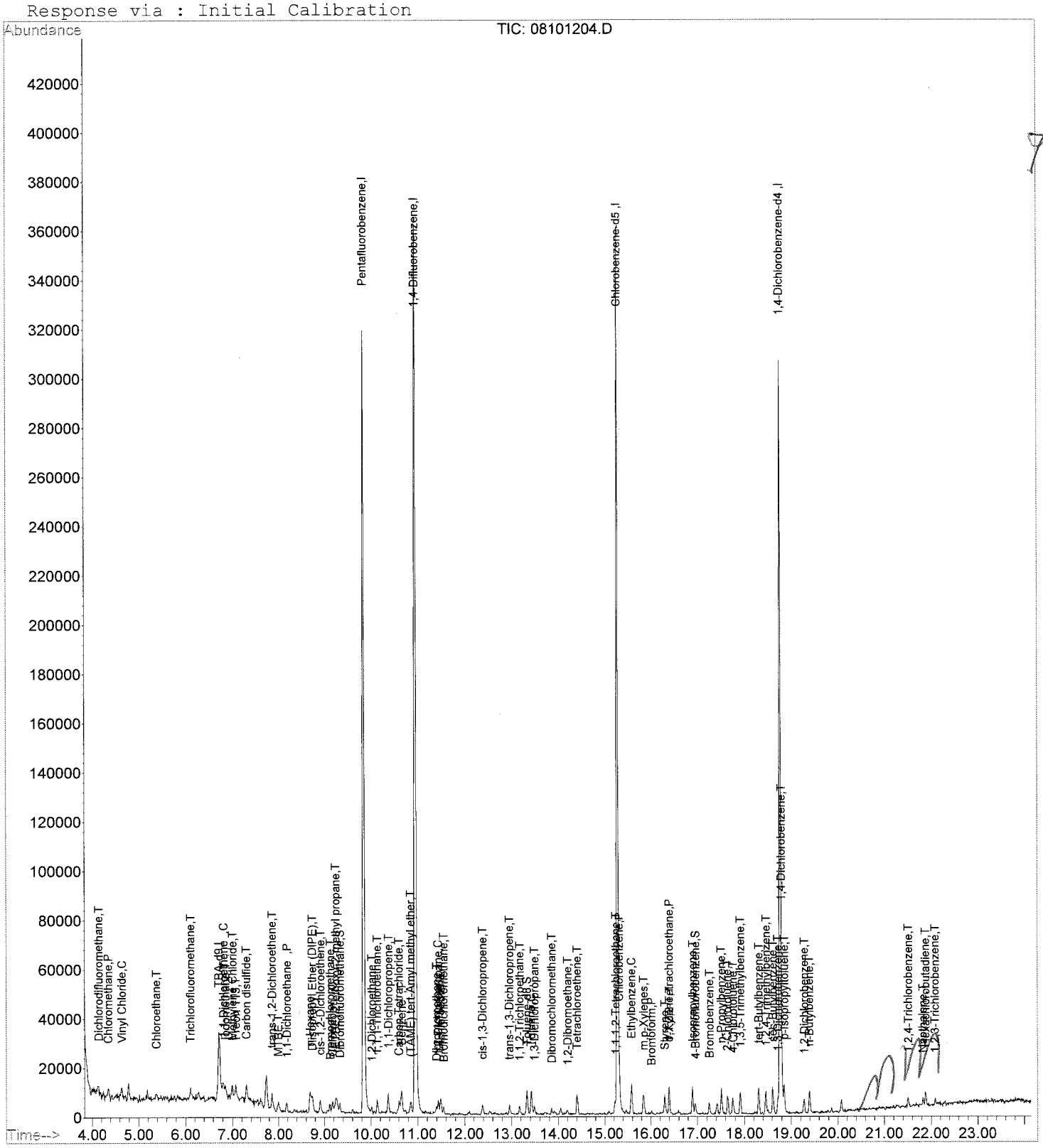
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 080712.M Fri Aug 10 09:42:39 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: 080712.RES

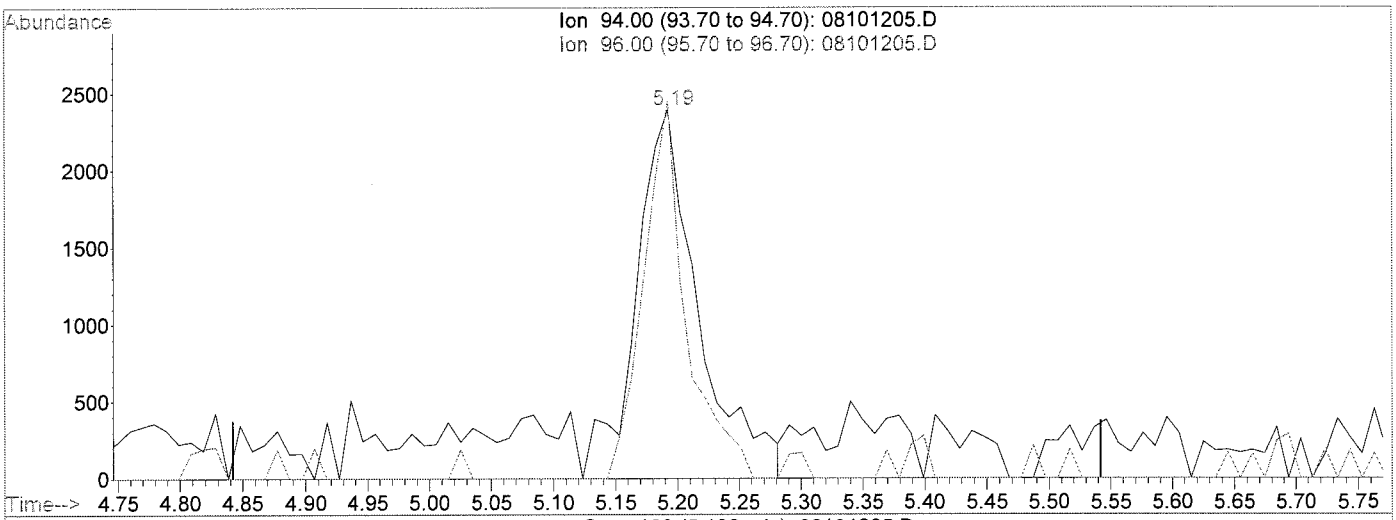
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

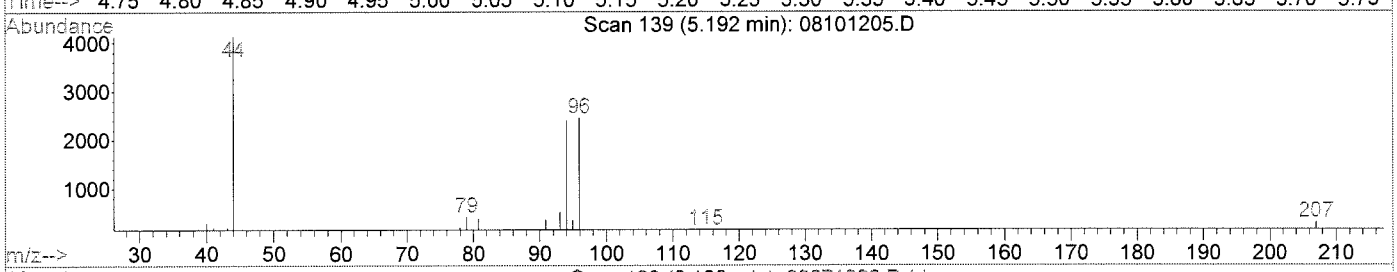


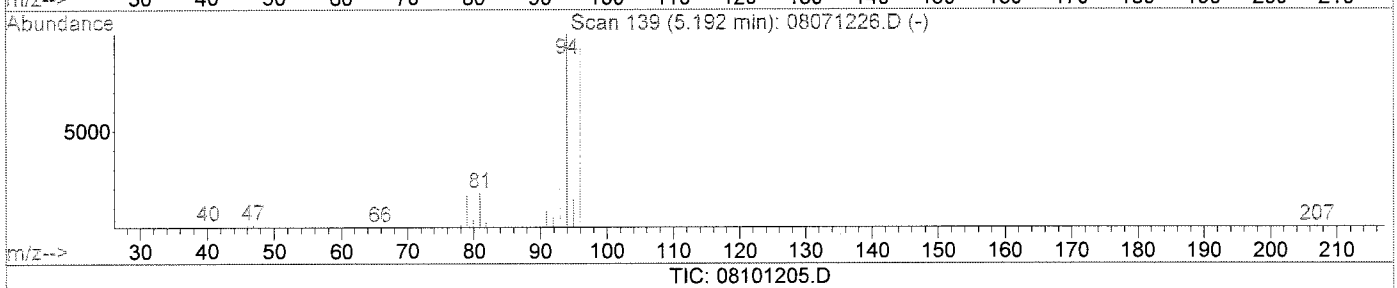
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.58ug/L

response 8343

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

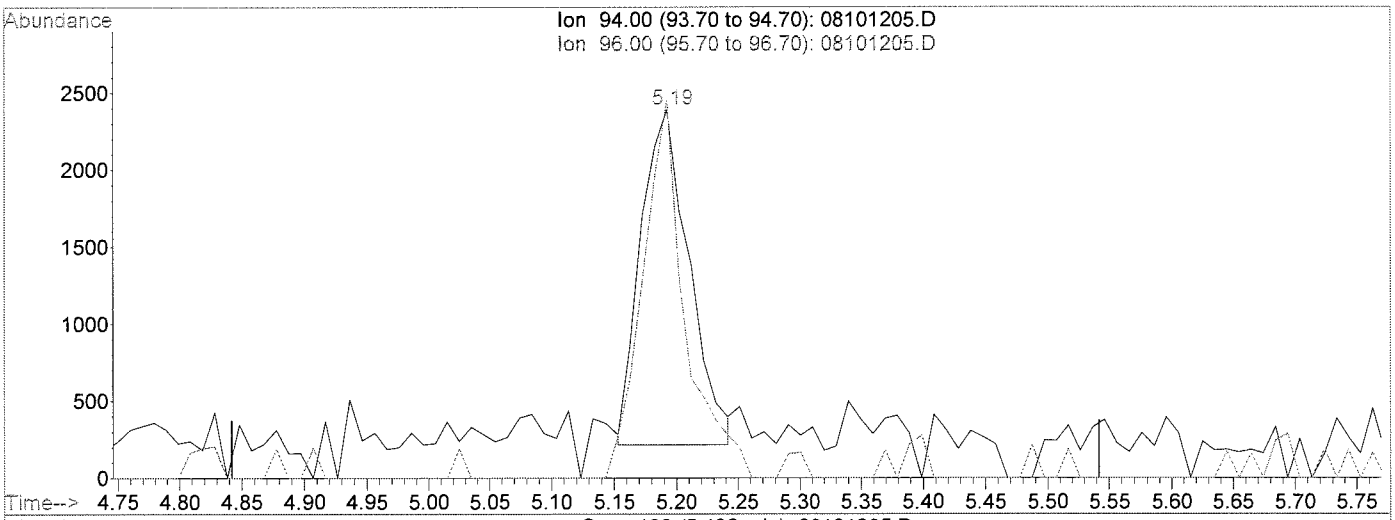
8/13/12

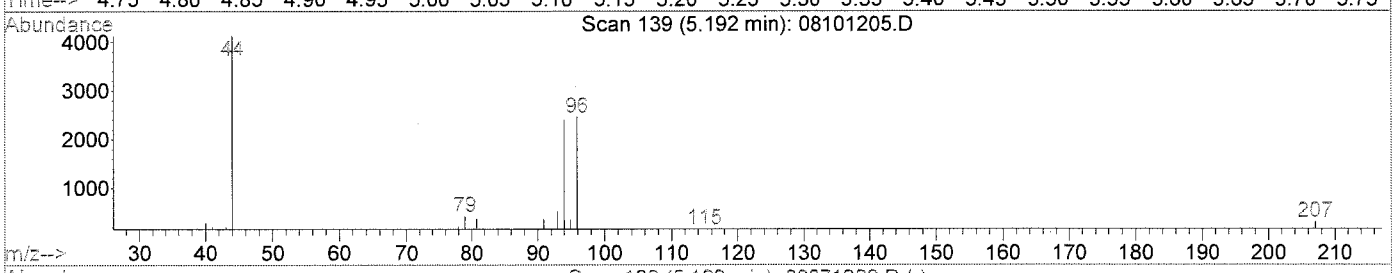
B
BL
MM 8/13/12

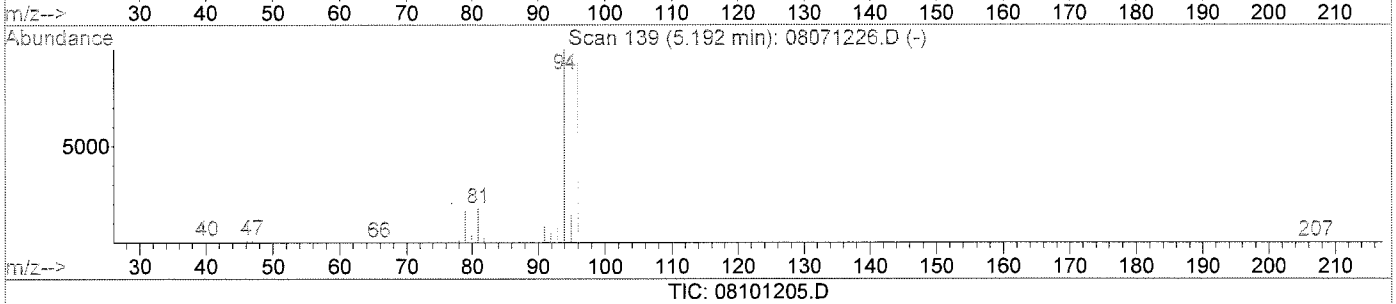
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.11ug/L m

response 5854

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	100.12
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

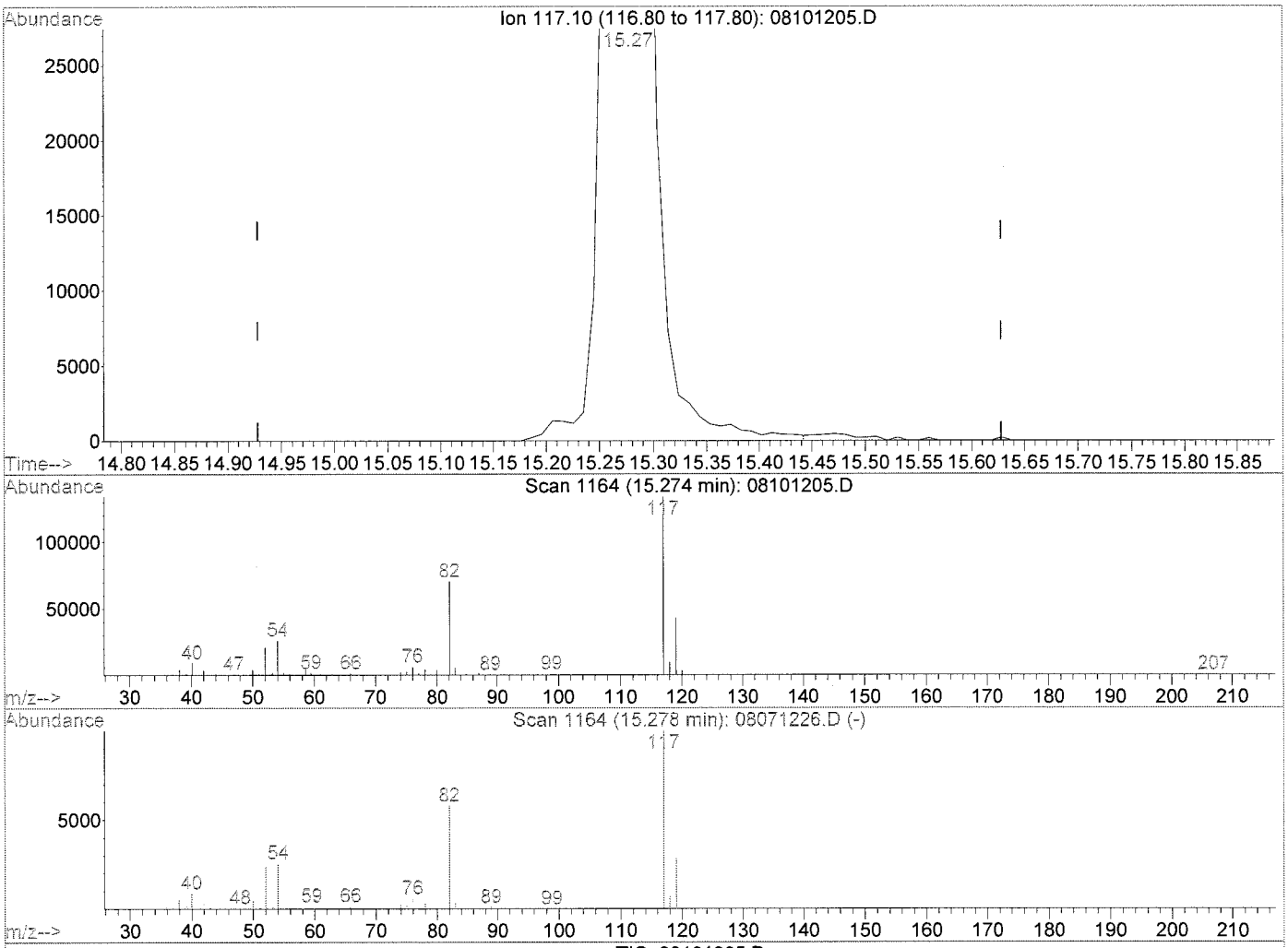
A

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

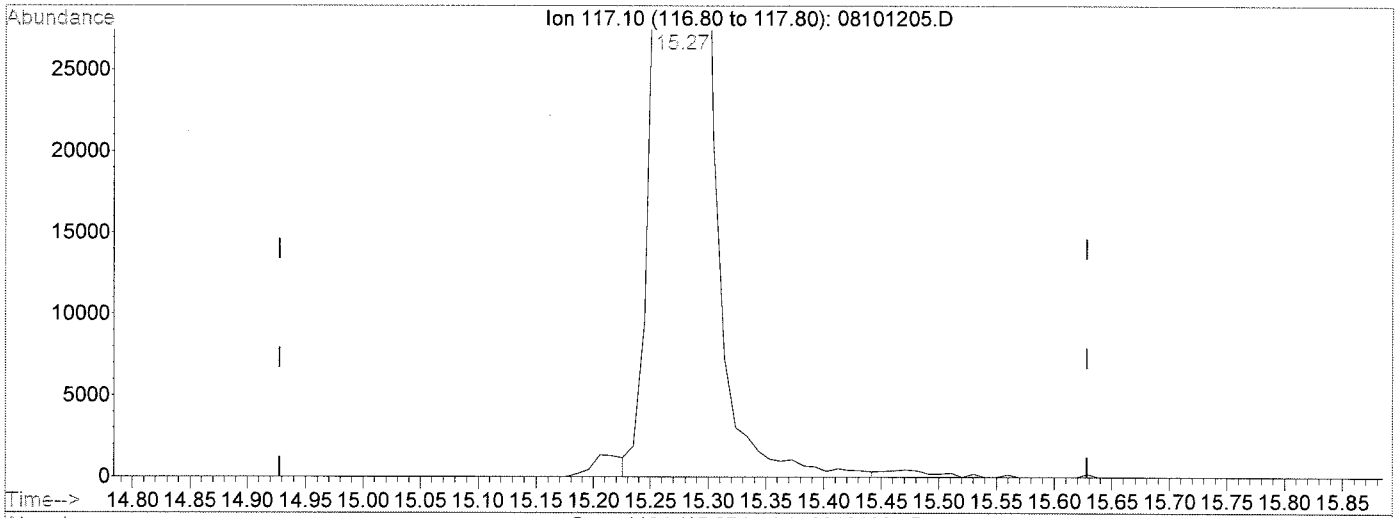
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

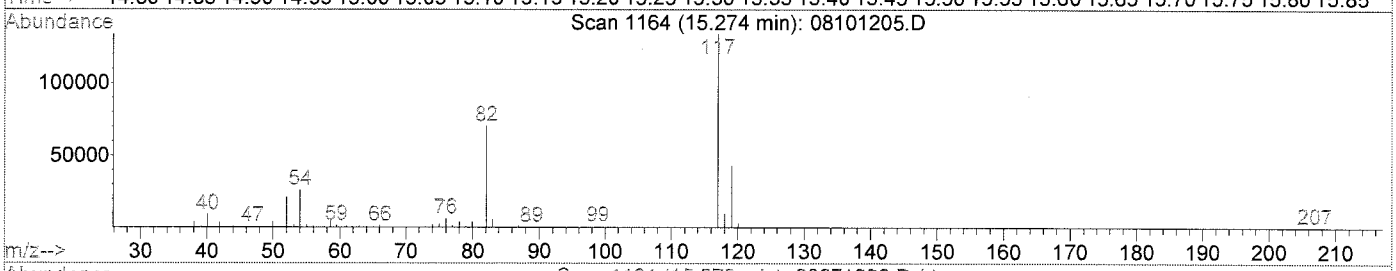
B CE mm 8/13/12

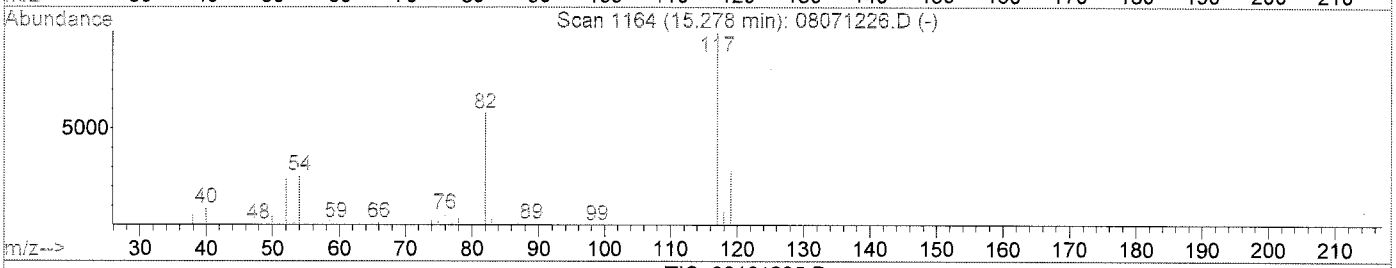
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 289717

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	289717m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.76%	
48) Toluene-d8	13.33	98	15044	1.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.08%	
62) 4-Bromofluorobenzene	16.96	95	4337	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.06 ug/L	99
6) Chloromethane	4.36	50	11345	1.09 ug/L	100
7) Vinyl Chloride	4.63	62	9613	1.17 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	1.02 ug/L #	77
9) Bromomethane	5.19	94	5854m	1.11 ug/L	
10) Chloroethane	5.38	64	4474	0.99 ug/L #	77
11) Trichlorofluoromethane	6.11	101	8147	0.94 ug/L	94
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.10 ug/L	92
14) 1,1-Dichloroethene	6.82	96	6624	1.30 ug/L #	60
15) Methylene Chloride	6.99	84	5669	1.12 ug/L #	80
16) Freon 113	7.06	101	5907	1.03 ug/L	94
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	97
18) trans-1,2-Dichloroethene	7.86	96	6803	1.23 ug/L	82
19) MTBE	8.00	73	9909	1.11 ug/L	95
20) 1,1-Dichloroethane	8.18	63	10543	1.12 ug/L	98
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.31 ug/L	73
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.15 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	6451	1.32 ug/L	87
26) Bromochloromethane	9.12	128	2129	1.03 ug/L	91
27) Chloroform	9.18	83	8439	1.04 ug/L #	86
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.08 ug/L #	90
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	0.98 ug/L	95
33) 1,1,1-Trichloroethane	10.14	97	6935	0.98 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	1.10 ug/L #	92
36) 1,1-Dichloropropene	10.38	75	8845	1.05 ug/L	97
37) Carbon Tetrachloride	10.61	117	6413	0.87 ug/L	95
38) Benzene	10.66	78	20457	1.05 ug/L #	90
39) Dibromomethane	11.39	93	2452	1.04 ug/L	91
40) 1,2-Dichloropropane	11.44	63	5094	1.07 ug/L #	84

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.99 ug/L	92
42)	Bromodichloromethane	11.56	83	5117	0.86 ug/L #	95
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.98 ug/L #	88
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	0.98 ug/L	99
46)	trans-1,3-Dichloropropene	12.96	75	4943	1.19 ug/L #	84
47)	1,1,2-Trichloroethane	13.17	97	2959	1.08 ug/L	87
49)	Toluene	13.42	92	10896	1.05 ug/L #	96
51)	1,3-Dichloropropane	13.49	76	5303	1.07 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.95 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	1.03 ug/L	99
55)	Tetrachloroethene	14.41	164	4967	1.04 ug/L	92
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.97 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	1.06 ug/L	88
58)	Ethylbenzene	15.58	91	20863	1.12 ug/L	97
59)	m,p-Xylenes	15.84	106	7380	1.10 ug/L	98
60)	Styrene	16.30	104	9553	1.09 ug/L #	93
61)	o-Xylene	16.40	106	7004	1.14 ug/L	92
64)	Bromoform	16.02	173	1913	1.04 ug/L	96
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	1.03 ug/L #	98
66)	1,2,3-Trichloropropane	16.58	110	765	0.92 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	1.05 ug/L	99
69)	Bromobenzene	17.25	156	4047	0.92 ug/L	98
70)	n-Propylbenzene	17.51	91	22751	1.06 ug/L	95
71)	2-Chlorotoluene	17.65	91	12533	1.00 ug/L	95
72)	4-Chlorotoluene	17.75	91	12326	1.04 ug/L	100
73)	1,3,5-Trimethylbenzene	17.91	105	13867	1.05 ug/L	97
74)	tert-Butylbenzene	18.30	119	12547	1.05 ug/L	88
75)	1,2,4-Trimethylbenzene	18.46	105	13204	1.06 ug/L	98
76)	sec-Butylbenzene	18.61	105	19700	1.09 ug/L	95
77)	1,3-Dichlorobenzene	18.72	146	7952	1.07 ug/L	96
78)	1,4-Dichlorobenzene	18.81	146	7762	1.11 ug/L #	92
79)	p-Isopropyltoluene	18.85	119	15724	1.17 ug/L	96
80)	1,2-Dichlorobenzene	19.28	146	6825	1.13 ug/L	93
81)	n-Butylbenzene	19.40	91	14669	1.18 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.98 ug/L #	84
84)	Napthalene	21.83	128	6316	1.29 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.97 ug/L	99
86)	1,2,3-Trichlorobenzene	22.09	180	2981	1.11 ug/L	92

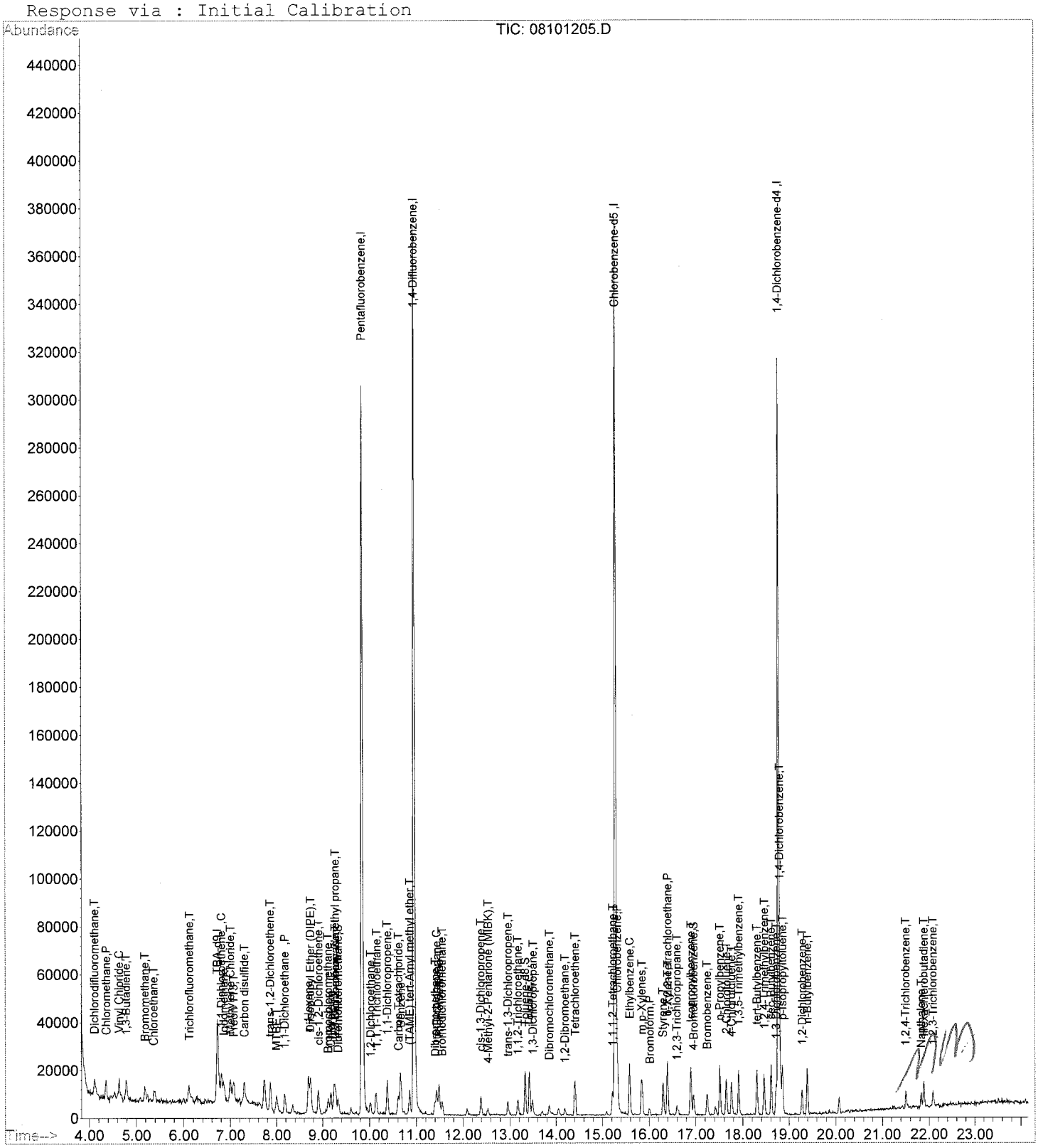
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 080712.M Fri Aug 10 09:44:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: 080712.RES

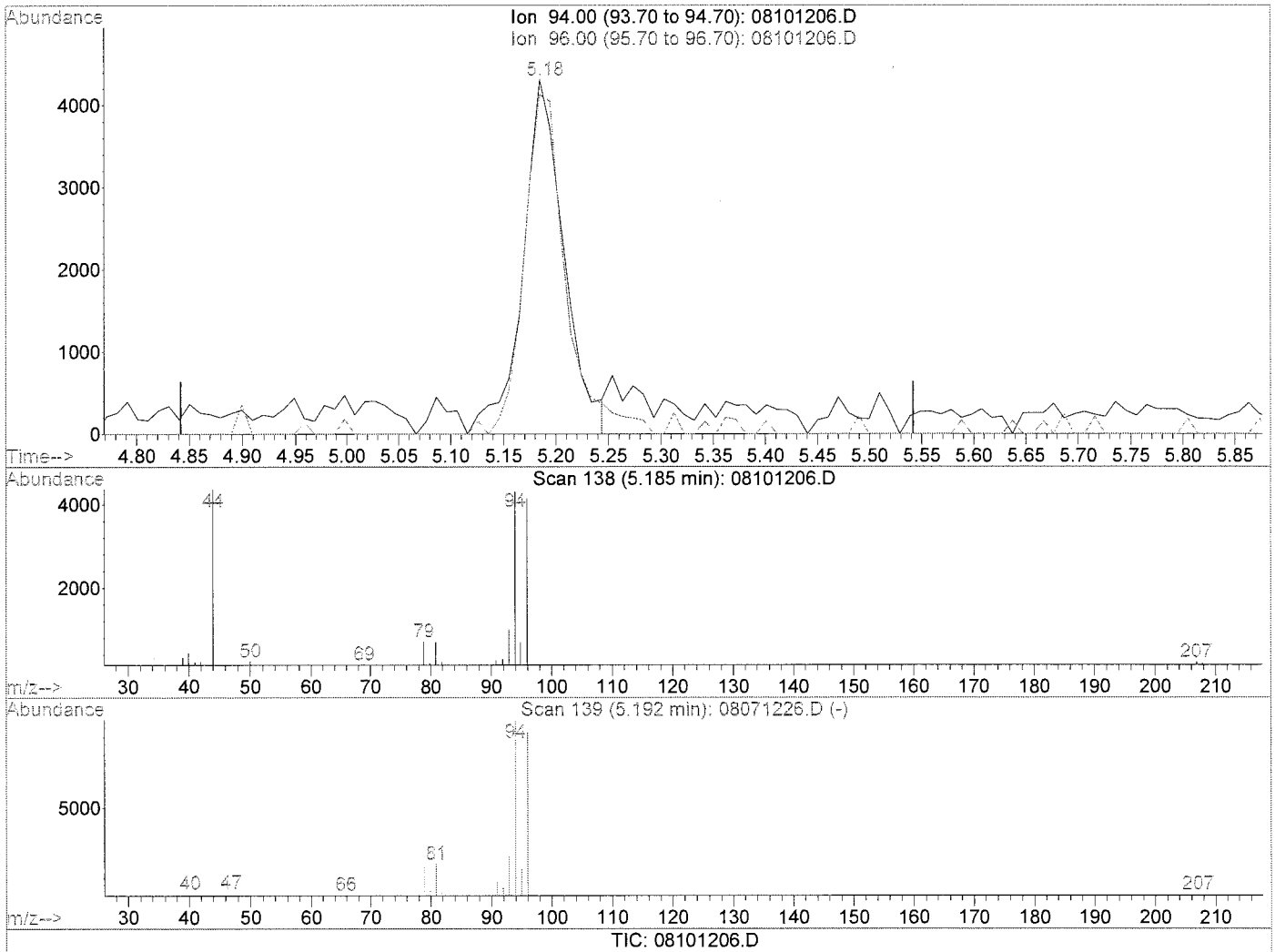
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:44 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



(9) Bromomethane (T)

5.18min 2.25ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

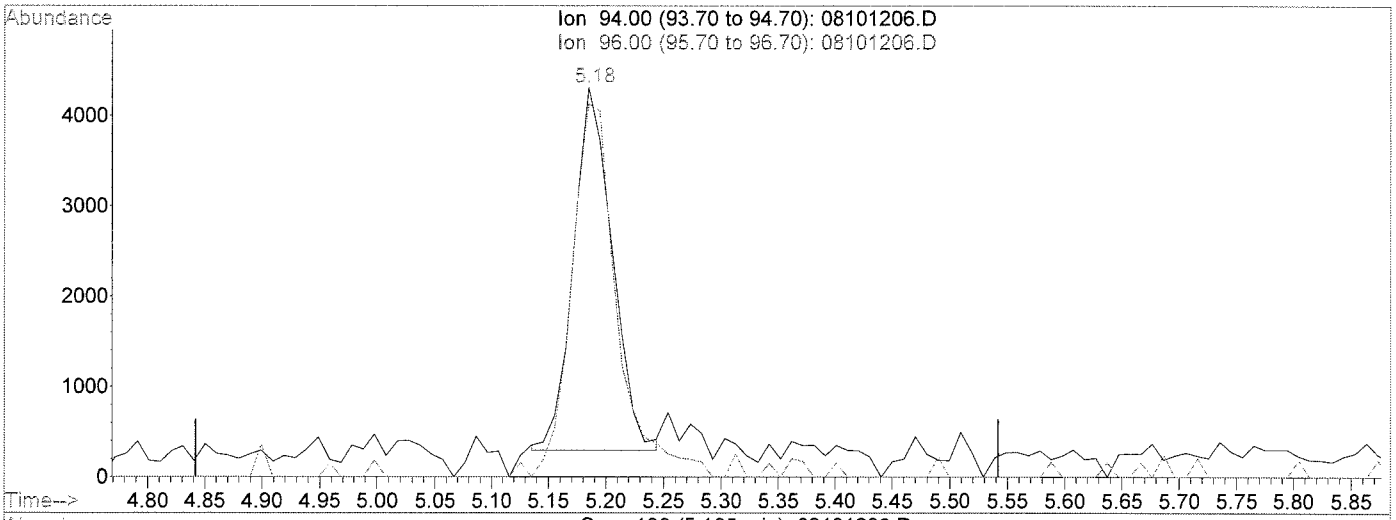
BL

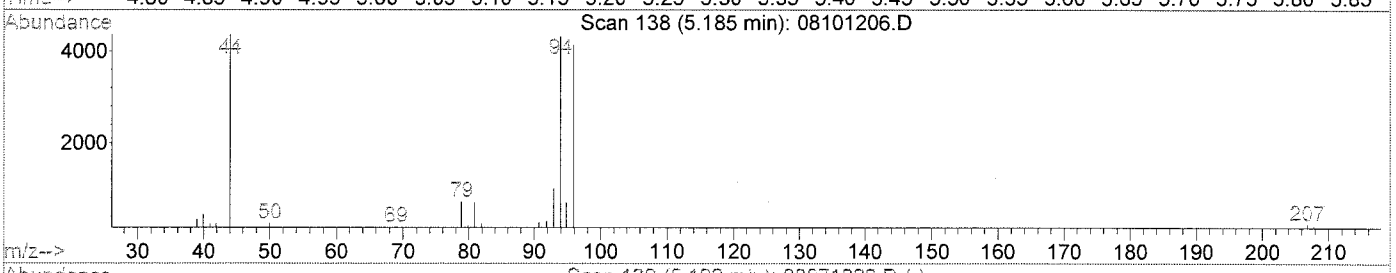
MM 8/13/12

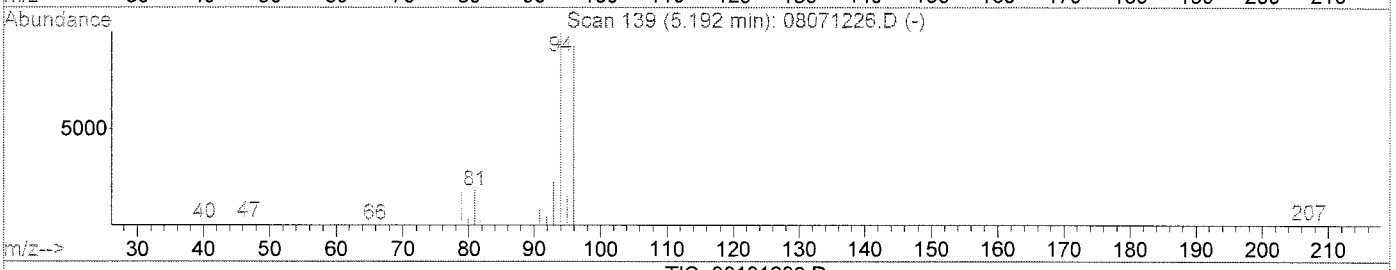
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.81ug/L m

response 9480

Ion	Exp%	Act%
94.00	100	100
96.00	92.00	122.20#
0.00	0.00	0.00
0.00	0.00	0.00

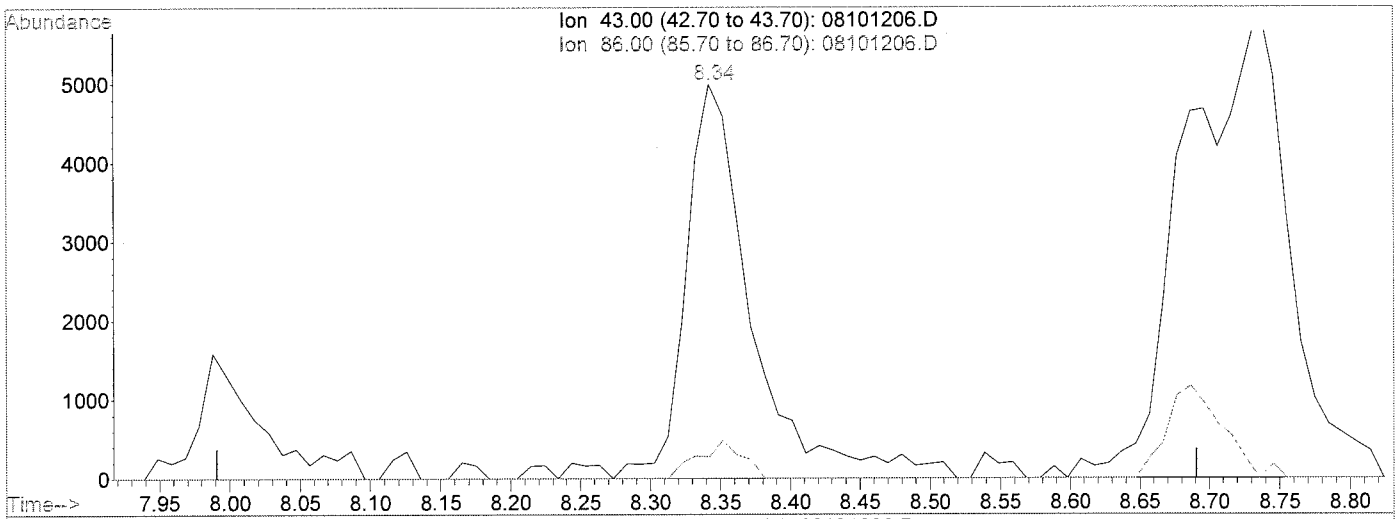
A

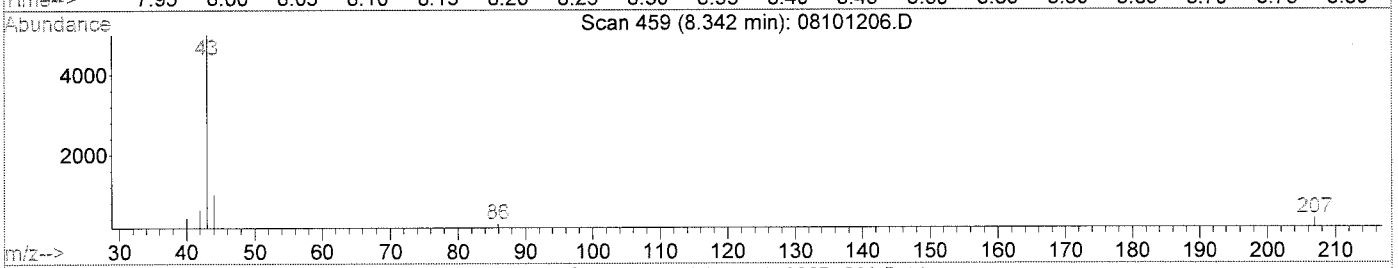
MM 8/13/12

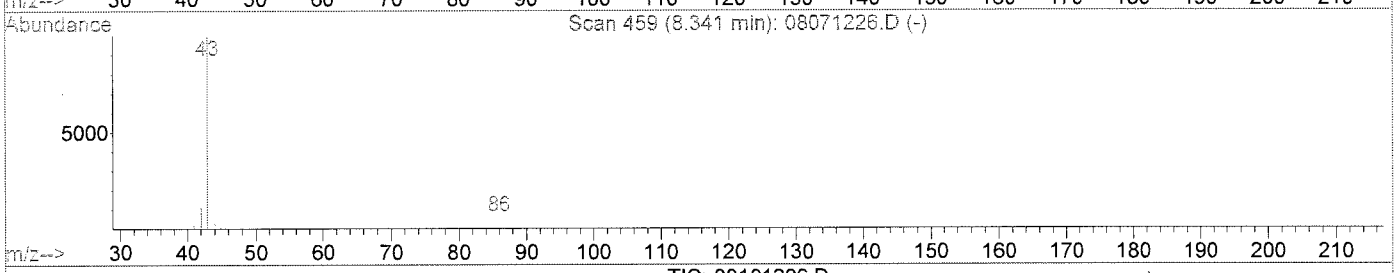
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

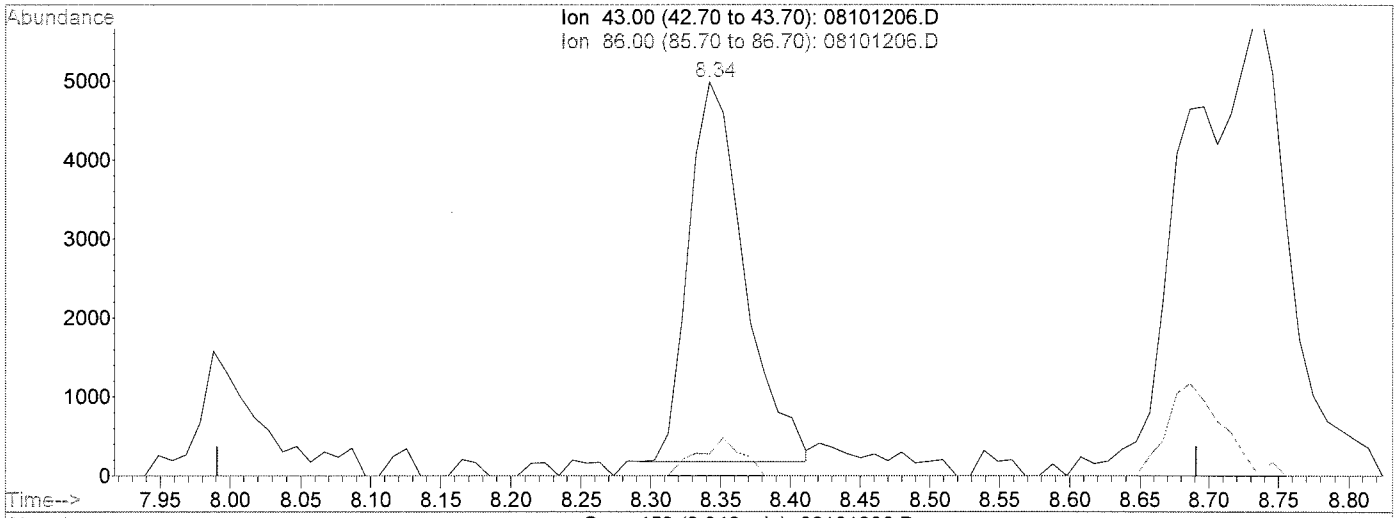
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	6.41
0.00	0.00	0.00
0.00	0.00	0.00

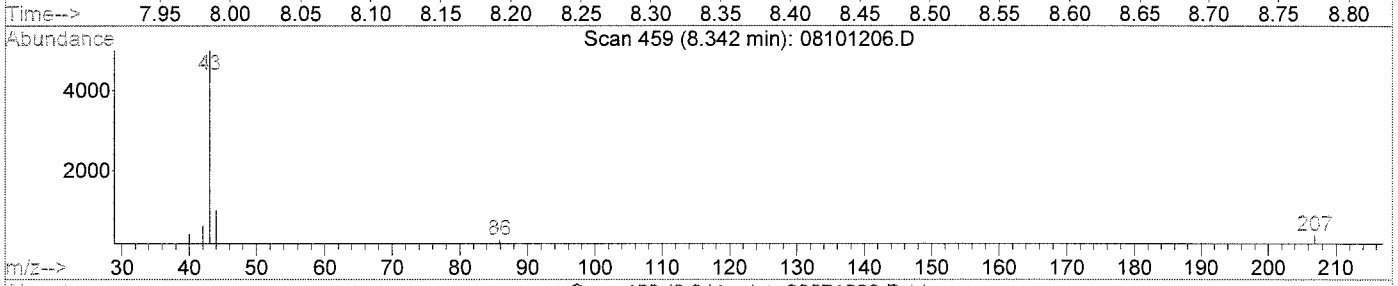
B
BL
MM 8/13/12

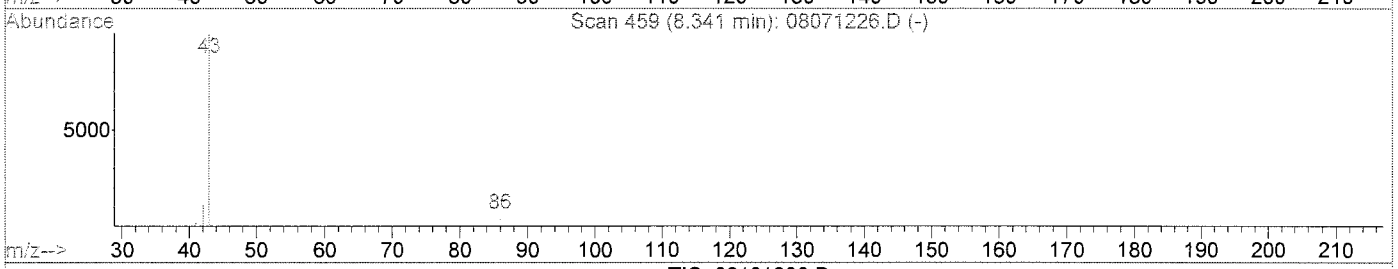
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(21) Vinyl Acetate (T)

8.34min 1.84ug/L m

response 13334

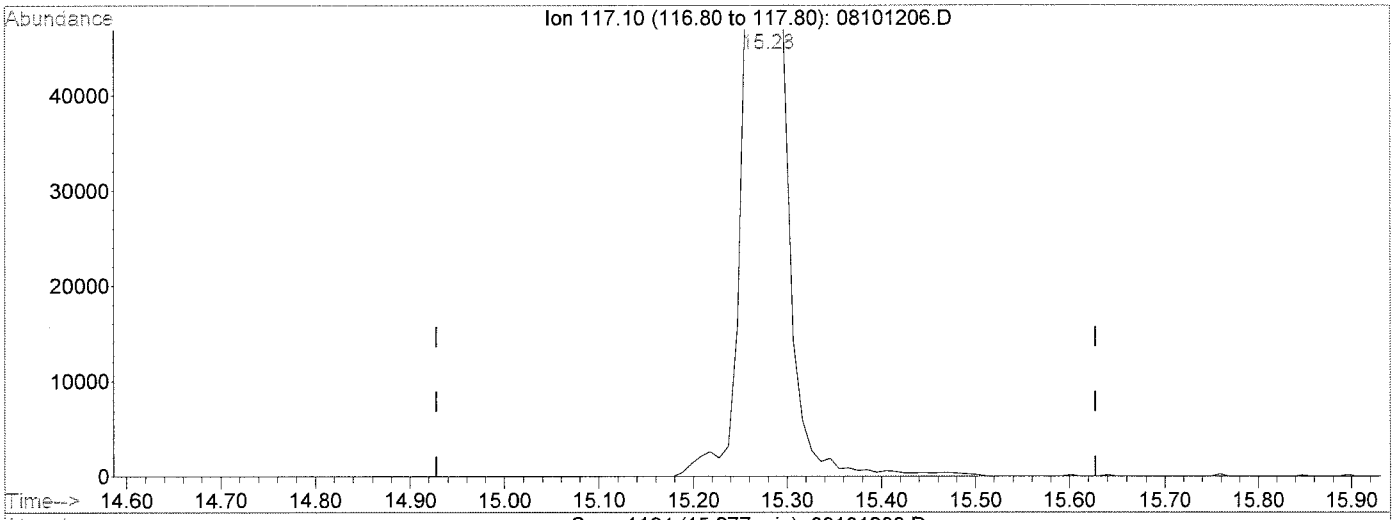
Ion	Exp%	Act%
43.00	100	100
86.00	6.30	7.85#
0.00	0.00	0.00
0.00	0.00	0.00

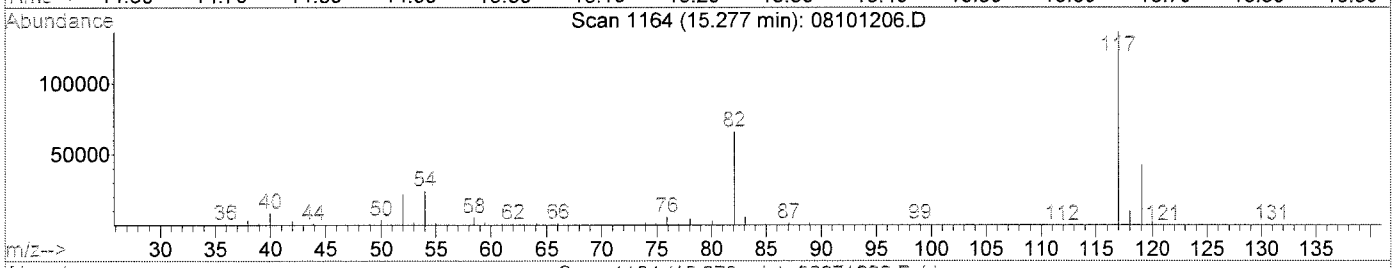
A
MM 8/13/12

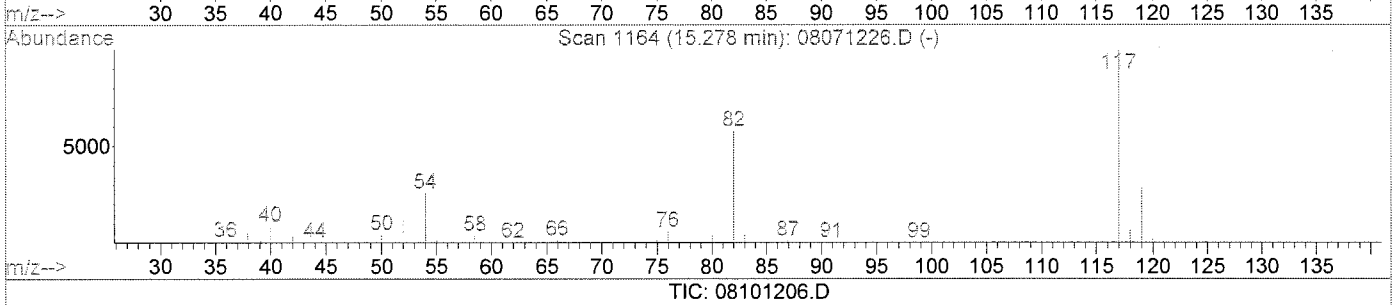
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

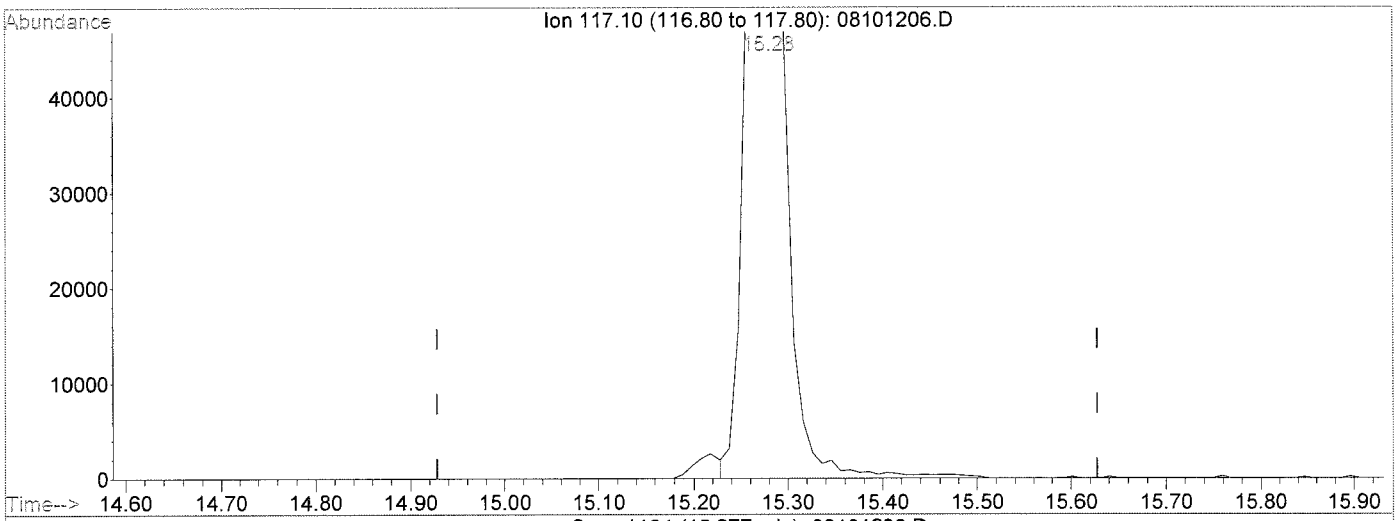
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

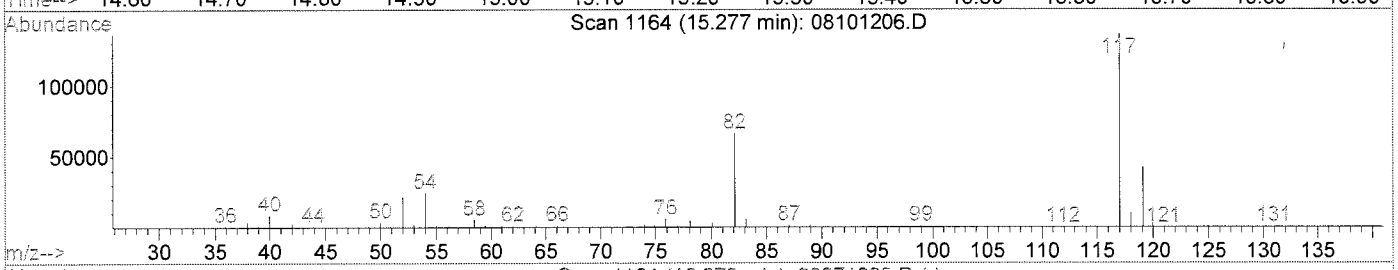
B 8/13/12
CE MM 8/13/12

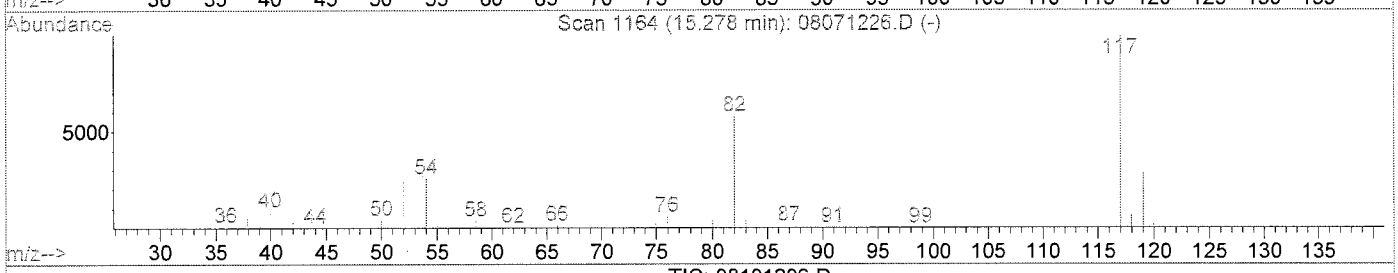
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293333

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293333m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 10.24%	
48) Toluene-d8	13.33	98	34659	2.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 9.76%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.21 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 8.84%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.87 ug/L	99
5) Dichlorodifluoromethane	4.11	85	19360	1.94 ug/L	89
6) Chloromethane	4.35	50	19442	1.89 ug/L	100
7) Vinyl Chloride	4.62	62	18295	2.26 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	2.03 ug/L	96
9) Bromomethane	5.18	94	9480m	1.81 ug/L	
10) Chloroethane	5.39	64	9047	2.02 ug/L #	88
11) Trichlorofluoromethane	6.12	101	15106	1.76 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.11 ug/L	91
14) 1,1-Dichloroethene	6.81	96	11692	2.32 ug/L #	73
15) Methylene Chloride	6.99	84	10706	2.13 ug/L #	82
16) Freon 113	7.06	101	11837	2.10 ug/L	96
17) Carbon disulfide	7.30	76	34510	1.87 ug/L #	43
18) trans-1,2-Dichloroethene	7.86	96	12894	2.36 ug/L	91
19) MTBE	8.00	73	18479	2.09 ug/L	95
20) 1,1-Dichloroethane	8.18	63	21203	2.28 ug/L	99
21) Vinyl Acetate	8.34	43	13334m	1.84 ug/L	
22) n-Hexane	8.69	86	3282	2.54 ug/L	72
23) 2-Butanone (MEK)	8.74	72	770	2.37 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.28 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	11373	2.35 ug/L	85
26) Bromochloromethane	9.12	128	4731	2.32 ug/L	94
27) Chloroform	9.17	83	18252	2.26 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.12 ug/L #	76
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.22 ug/L	94
31) Tetrahydrofuran	9.60	72	942	2.91 ug/L #	68
32) 1,2-Dichloroethane	10.01	62	9458	2.01 ug/L	96
33) 1,1,1-Trichloroethane	10.13	97	14552	2.09 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	19881	2.24 ug/L #	93
36) 1,1-Dichloropropene	10.37	75	16300	2.01 ug/L	96
37) Carbon Tetrachloride	10.60	117	11980	1.68 ug/L	94
38) Benzene	10.66	78	39625	2.11 ug/L #	89
39) Dibromomethane	11.39	93	4623	2.04 ug/L	94
40) 1,2-Dichloropropane	11.44	63	9870	2.15 ug/L #	84

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.27 ug/L		94
42)	Bromodichloromethane	11.55	83	10648	1.84 ug/L	#	98
43)	2-Chlorovinylethylether	12.09	63	3450	2.67 ug/L	#	89
44)	cis-1,3-Dichloropropene	12.38	75	12256	2.05 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	1.78 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.95 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	5725	2.16 ug/L	#	88
49)	Toluene	13.42	92	23415	2.33 ug/L	#	97
51)	1,3-Dichloropropane	13.49	76	9548	1.91 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.69 ug/L	#	94
53)	Dibromochloromethane	13.85	129	6760	1.86 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.28 ug/L		94
55)	Tetrachloroethene	14.41	164	9734	2.02 ug/L		94
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.95 ug/L		95
57)	Chlorobenzene	15.33	112	23737	2.31 ug/L		99
58)	Ethylbenzene	15.58	91	37962	2.02 ug/L		94
59)	m,p-Xylenes	15.85	106	14006	2.05 ug/L		99
60)	Styrene	16.30	104	19695	2.21 ug/L		93
61)	o-Xylene	16.40	106	12771	2.06 ug/L		98
64)	Bromoform	16.01	173	3623	1.87 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	2.10 ug/L	#	98
66)	1,2,3-Trichloropropane	16.59	110	1480	1.84 ug/L		92
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	3.09 ug/L	#	80
68)	Isopropylbenzene	16.90	105	35158	2.14 ug/L		100
69)	Bromobenzene	17.24	156	8795	2.07 ug/L		92
70)	n-Propylbenzene	17.51	91	42873	2.06 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.13 ug/L		92
72)	4-Chlorotoluene	17.76	91	23403	2.04 ug/L		95
73)	1,3,5-Trimethylbenzene	17.91	105	28001	2.19 ug/L		98
74)	tert-Butylbenzene	18.31	119	24990	2.16 ug/L		95
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.23 ug/L		100
76)	sec-Butylbenzene	18.61	105	41333	2.37 ug/L		100
77)	1,3-Dichlorobenzene	18.72	146	15215	2.12 ug/L		99
78)	1,4-Dichlorobenzene	18.81	146	15598	2.30 ug/L		94
79)	p-Isopropyltoluene	18.86	119	30026	2.30 ug/L		96
80)	1,2-Dichlorobenzene	19.27	146	12959	2.22 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	2.37 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	0.99 ug/L		95
83)	1,2,4-Trichlorobenzene	21.50	180	7014	2.27 ug/L		95
84)	Napthalene	21.83	128	10482	2.21 ug/L		99
85)	Hexachlorobutadiene	21.89	225	5525	1.67 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	5851	2.33 ug/L		98

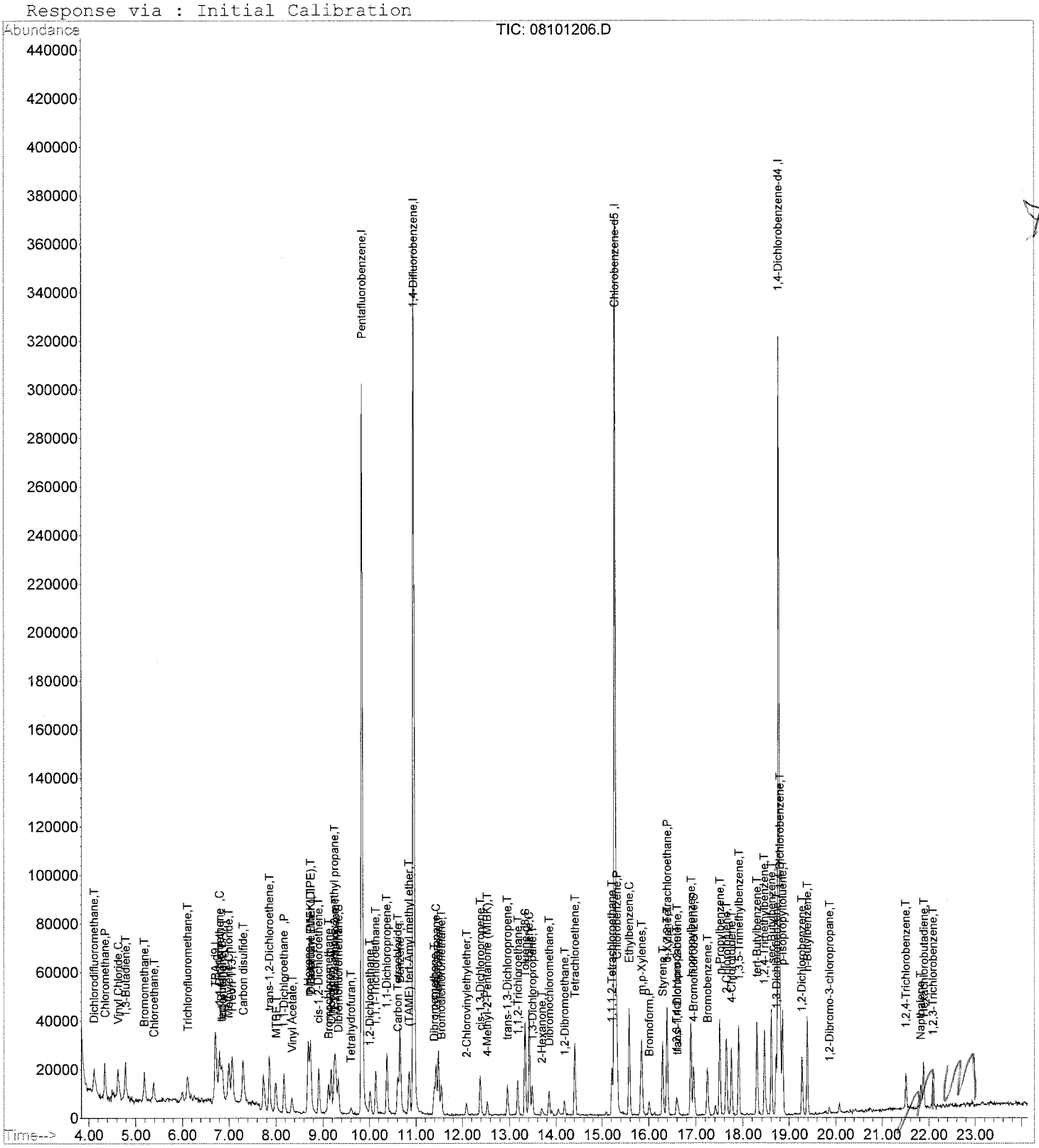
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 080712.M Fri Aug 10 09:46:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 9:46 2012 Quant Results File: 080712.RES

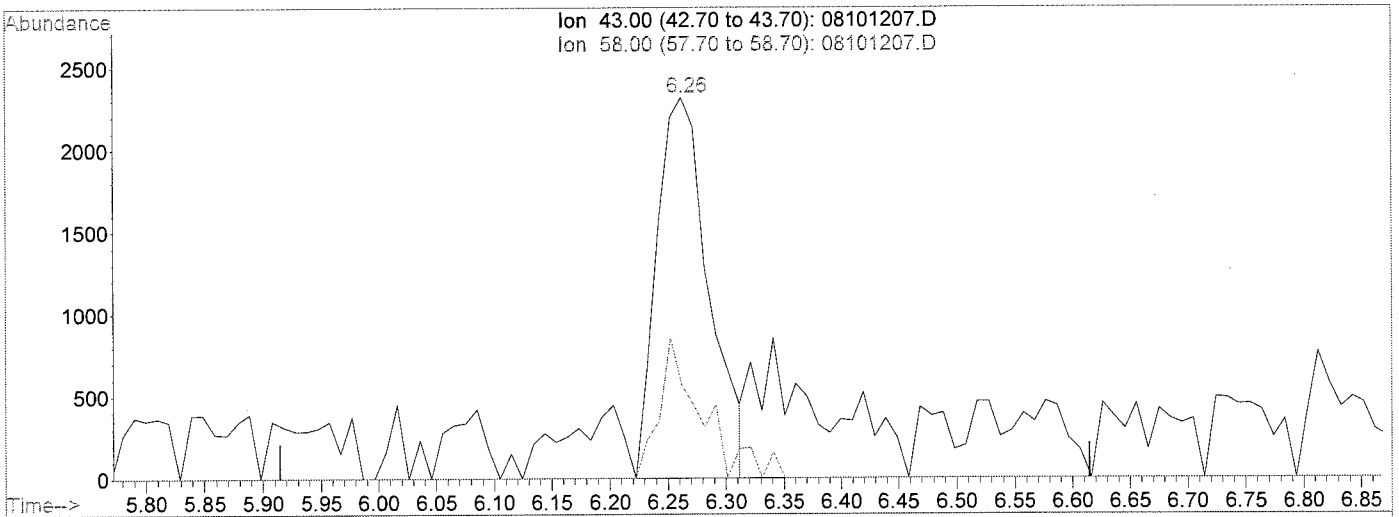
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

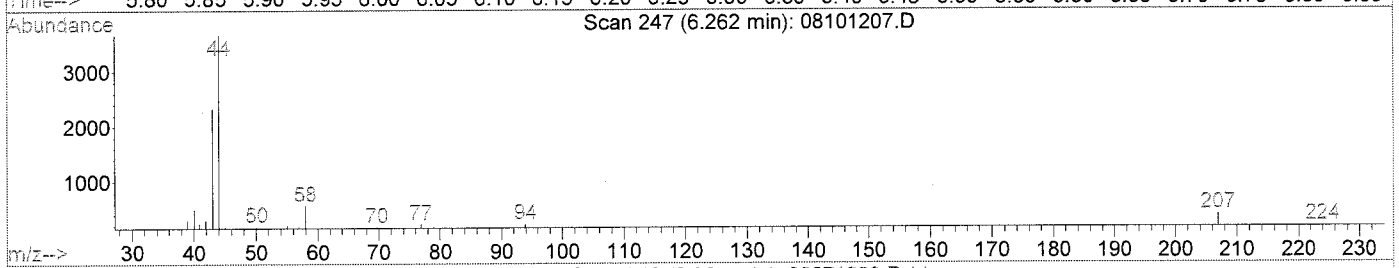


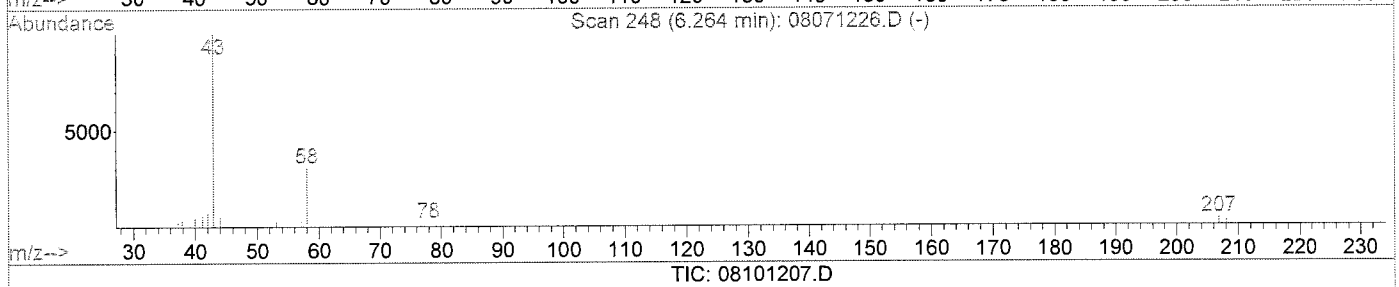
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:38 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.86ug/L

response 7175

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

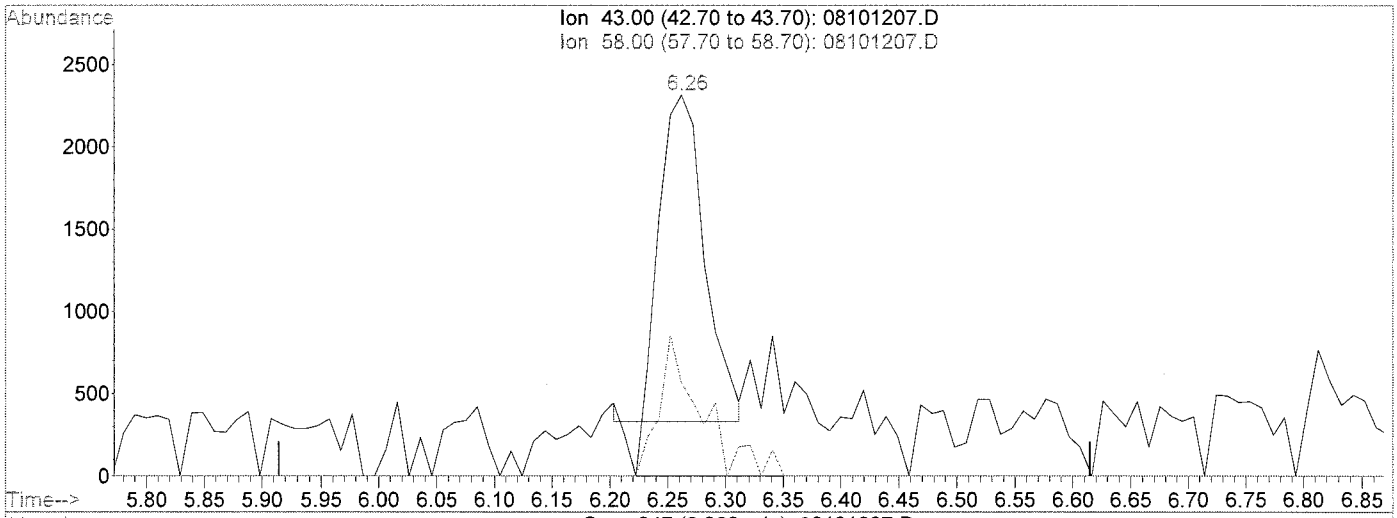
B 8/13/12

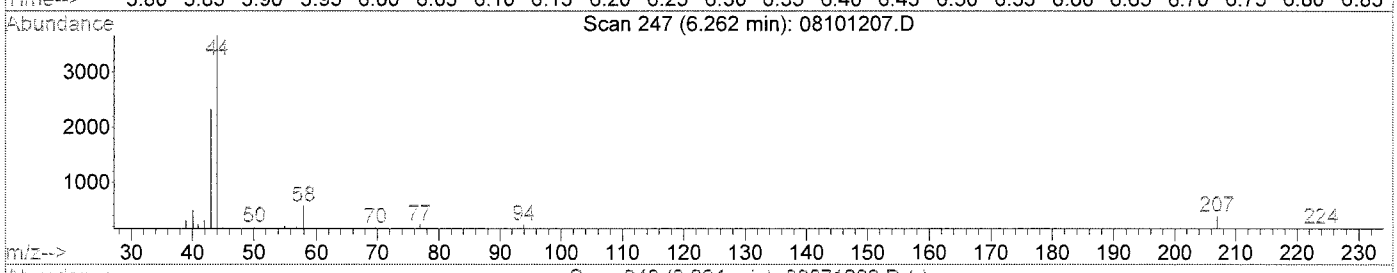
BL MM 8/13/12

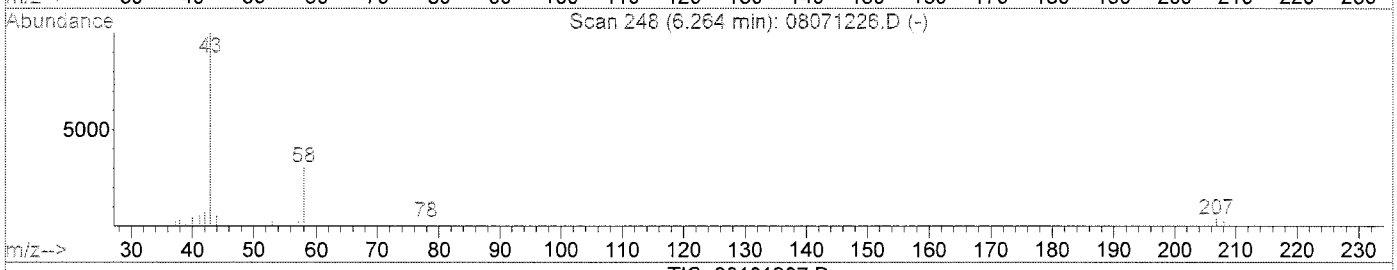
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 4.95ug/L m

response 5171

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	38.70#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	5.77 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.08%	
48) Toluene-d8	13.32	98	72498	5.75 ug/L	0.00
Spiked Amount 25.000			Recovery =	23.00%	
62) 4-Bromofluorobenzene	16.95	95	19393	5.25 ug/L	0.00
Spiked Amount 25.000			Recovery =	21.00%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.80 ug/L #	93
5) Dichlorodifluoromethane	4.12	85	50503	5.56 ug/L	96
6) Chloromethane	4.35	50	49357	5.27 ug/L	99
7) Vinyl Chloride	4.63	62	49265	6.67 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.88 ug/L	89
9) Bromomethane	5.19	94	30021	6.31 ug/L	93
10) Chloroethane	5.38	64	23447	5.74 ug/L	95
11) Trichlorofluoromethane	6.11	101	40948	5.24 ug/L	98
12) Acetone	6.26	43	5171m	4.95 ug/L	
13) Iodomethane	6.86	142	44247	5.29 ug/L	95
14) 1,1-Dichloroethene	6.80	96	26139	5.70 ug/L #	78
15) Methylene Chloride	7.00	84	23231	5.08 ug/L	91
16) Freon 113	7.08	101	29531	5.74 ug/L	98
17) Carbon disulfide	7.30	76	90258	5.36 ug/L	95
18) trans-1,2-Dichloroethene	7.87	96	30944	6.23 ug/L	89
19) MTBE	8.00	73	42861	5.31 ug/L	98
20) 1,1-Dichloroethane	8.18	63	50278	5.93 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.85 ug/L	97
22) n-Hexane	8.68	86	8584	7.29 ug/L	62
23) 2-Butanone (MEK)	8.73	72	1806	6.11 ug/L #	37
24) Diisopropyl Ether (DIPE)	8.74	45	78319	5.44 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	27851	6.31 ug/L	89
26) Bromochloromethane	9.11	128	10529	5.67 ug/L	94
27) Chloroform	9.17	83	43865	5.97 ug/L	94
28) 2,2-Dichloropropane	9.27	77	32662	5.28 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	5.22 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	5.02 ug/L	94
32) 1,2-Dichloroethane	10.01	62	19485	4.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.62 ug/L	91
34) (TAME) tert-Amyl methyl et	10.86	73	44807	5.54 ug/L	92
36) 1,1-Dichloropropene	10.37	75	40445	5.62 ug/L	98
37) Carbon Tetrachloride	10.61	117	30853	4.88 ug/L	95
38) Benzene	10.66	78	91136	5.46 ug/L #	90
39) Dibromomethane	11.39	93	10657	5.28 ug/L	89
40) 1,2-Dichloropropane	11.44	63	21430	5.25 ug/L #	91

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	27389	5.87 ug/L	97
42) Bromodichloromethane	11.55	83	25974	5.06 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	6853	5.95 ug/L #	92
44) cis-1,3-Dichloropropene	12.39	75	28675	5.40 ug/L #	85
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.03 ug/L	98
46) trans-1,3-Dichloropropene	12.96	75	21114	4.70 ug/L #	85
47) 1,1,2-Trichloroethane	13.17	97	12837	5.46 ug/L #	85
49) Toluene	13.42	92	54238	6.09 ug/L	96
51) 1,3-Dichloropropane	13.49	76	23699	5.47 ug/L	96
52) 2-Hexanone	13.69	43	8850	4.59 ug/L	98
53) Dibromochloromethane	13.86	129	16099	5.12 ug/L	100
54) 1,2-Dibromoethane	14.19	107	13554	5.50 ug/L	96
55) Tetrachloroethene	14.41	164	23934	5.75 ug/L	94
56) 1,1,1,2-Tetrachloroethane	15.21	131	18257	5.33 ug/L	95
57) Chlorobenzene	15.32	112	54536	6.13 ug/L	94
58) Ethylbenzene	15.59	91	93388	5.75 ug/L	96
59) m,p-Xylenes	15.85	106	35706	6.06 ug/L	91
60) Styrene	16.30	104	44417	5.76 ug/L #	91
61) o-Xylene	16.39	106	32546	6.07 ug/L	93
64) Bromoform	16.01	173	9250	4.98 ug/L	87
65) 1,1,2,2-Tetrachloroethane	16.39	83	14360	5.22 ug/L #	98
66) 1,2,3-Trichloropropane	16.59	110	3714	5.14 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.62	53	3143	5.98 ug/L #	93
68) Isopropylbenzene	16.90	105	84596	5.72 ug/L	97
69) Bromobenzene	17.25	156	19667	5.16 ug/L	98
70) n-Propylbenzene	17.50	91	106364	5.69 ug/L	97
71) 2-Chlorotoluene	17.64	91	57156	5.26 ug/L	94
72) 4-Chlorotoluene	17.75	91	57414	5.56 ug/L	96
73) 1,3,5-Trimethylbenzene	17.91	105	65369	5.68 ug/L	93
74) tert-Butylbenzene	18.30	119	58429	5.64 ug/L	97
75) 1,2,4-Trimethylbenzene	18.46	105	63046	5.83 ug/L	96
76) sec-Butylbenzene	18.61	105	99506	6.34 ug/L	98
77) 1,3-Dichlorobenzene	18.71	146	37917	5.87 ug/L	95
78) 1,4-Dichlorobenzene	18.81	146	35468	5.82 ug/L	99
79) p-Isopropyltoluene	18.86	119	72640	6.20 ug/L	94
80) 1,2-Dichlorobenzene	19.28	146	30287	5.78 ug/L	99
81) n-Butylbenzene	19.39	91	70667	6.52 ug/L	97
82) 1,2-Dibromo-3-chloropropan	19.87	75	1150	2.73 ug/L #	34
83) 1,2,4-Trichlorobenzene	21.51	180	17519	6.31 ug/L	98
84) Napthalene	21.82	128	26687	6.26 ug/L	96
85) Hexachlorobutadiene	21.88	225	14706	4.54 ug/L	88
86) 1,2,3-Trichlorobenzene	22.08	180	14724	6.68 ug/L	99

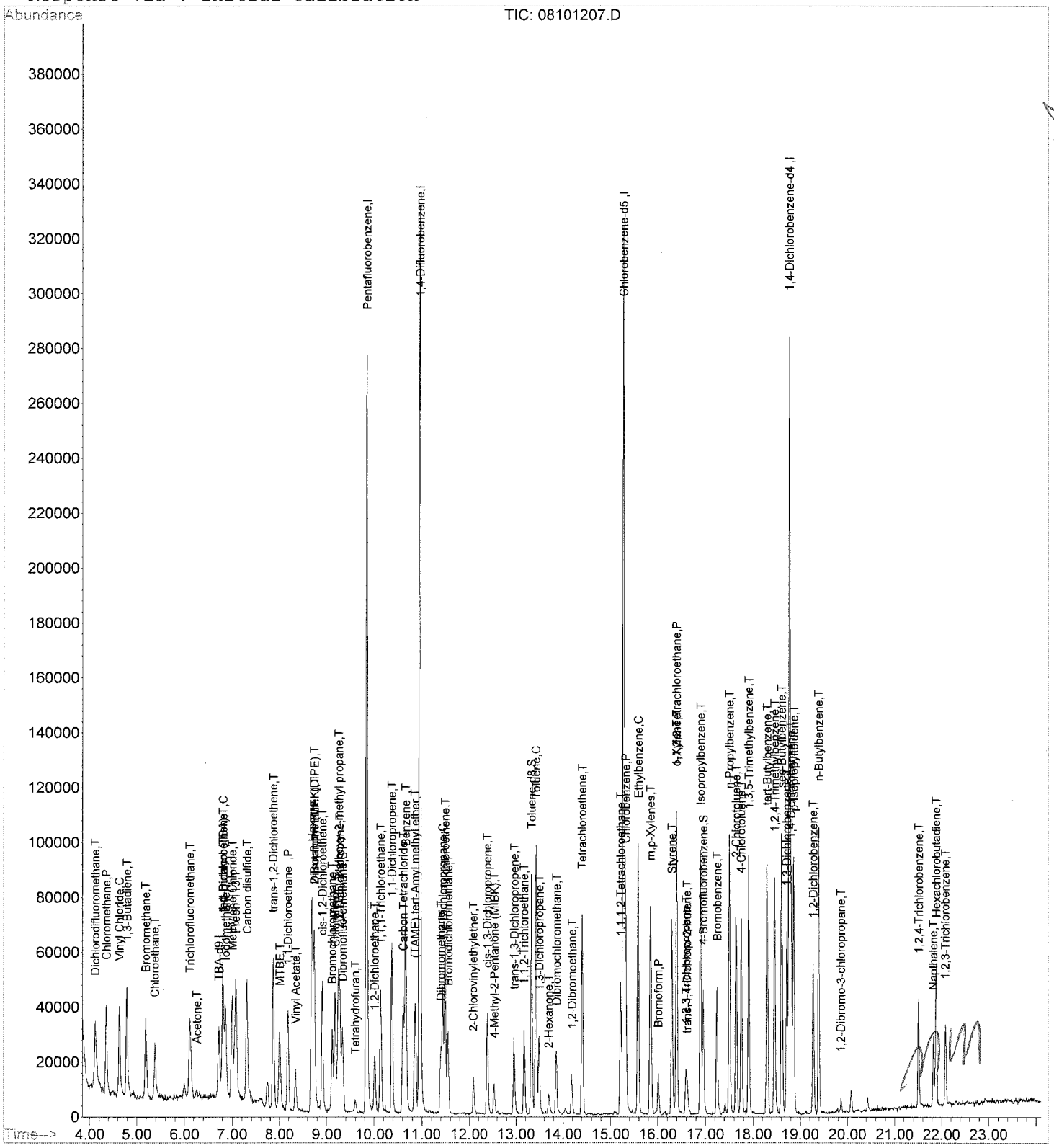
MM

(#) = qualifier out of range (m) = manual integration
08101207.D 080712.M Fri Aug 10 12:39:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:39 2012 Quant Results File: 080712.RES

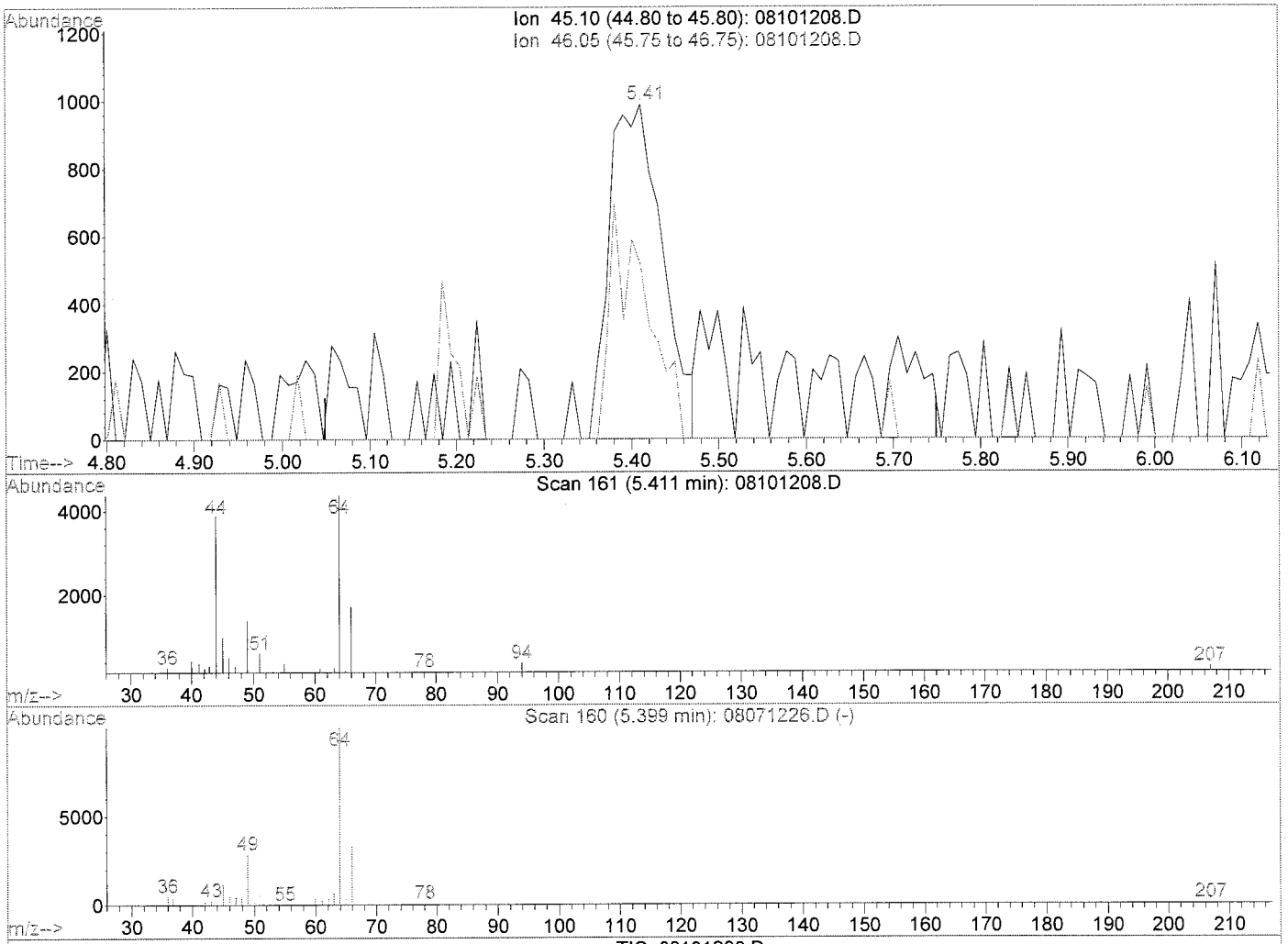
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



TIC: 08101208.D

(2) Ethanol (T)

5.41min 112.69ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

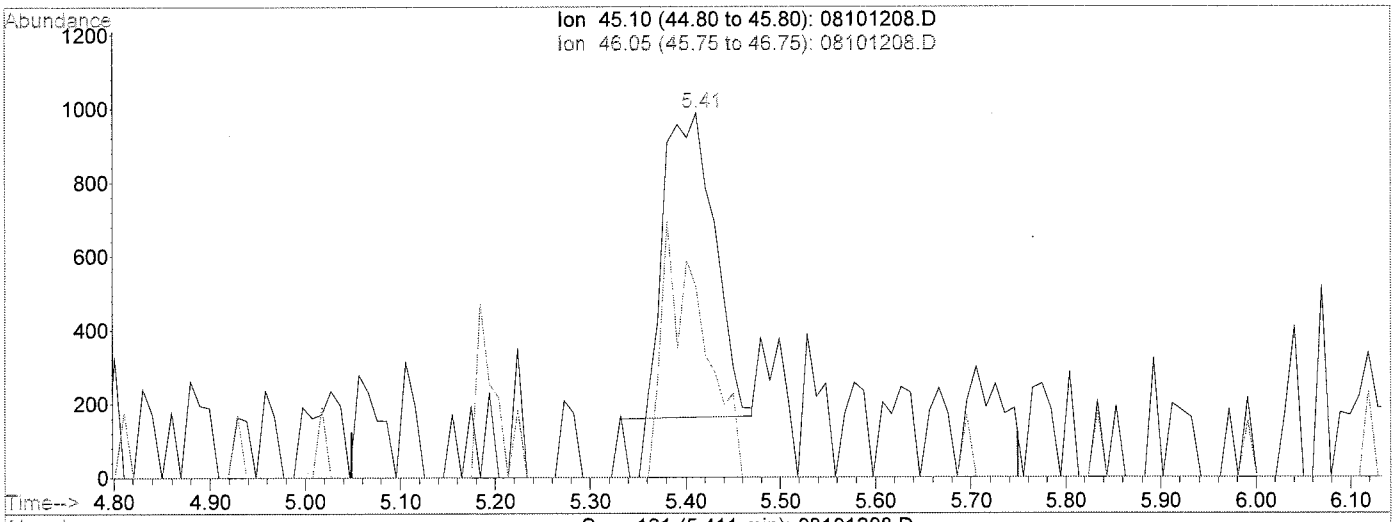
BL

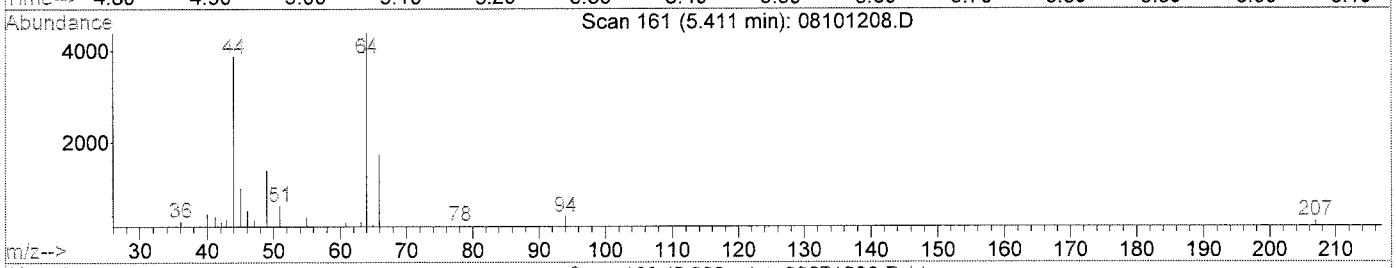
MM 8/13/12

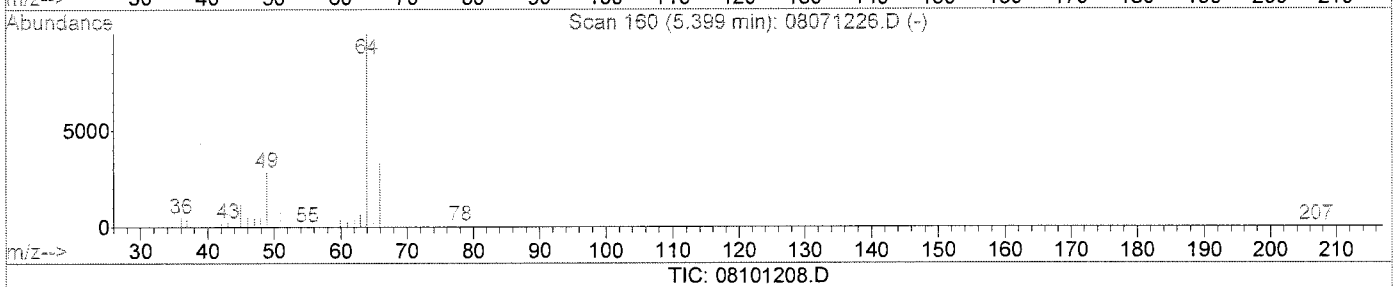
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 76.46ug/L m

response 2824

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	71.99#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

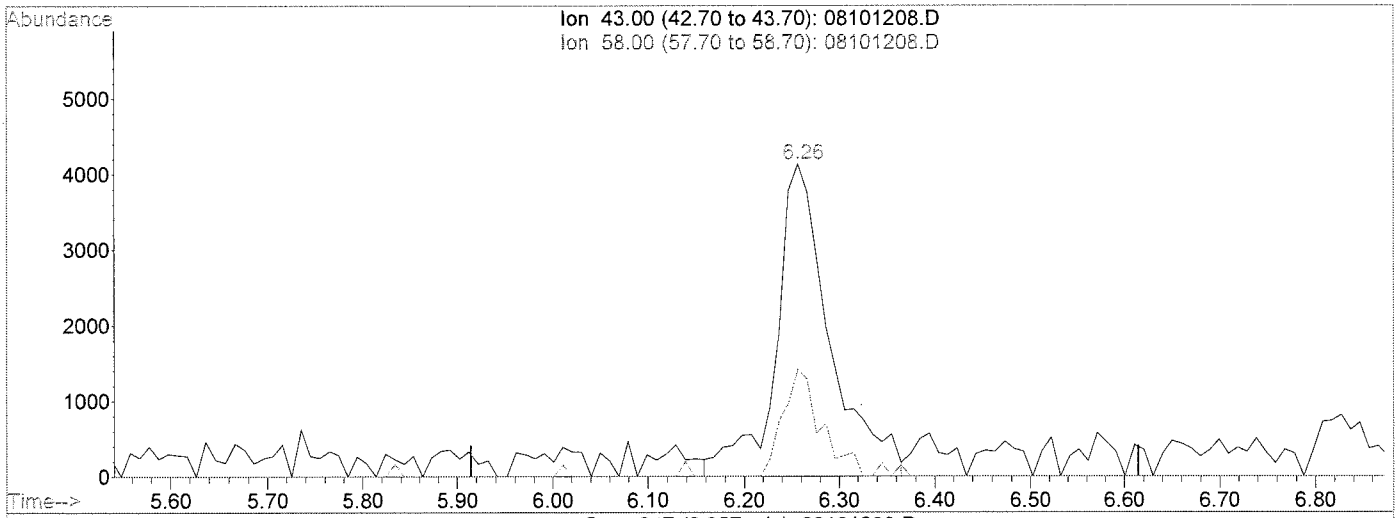
A

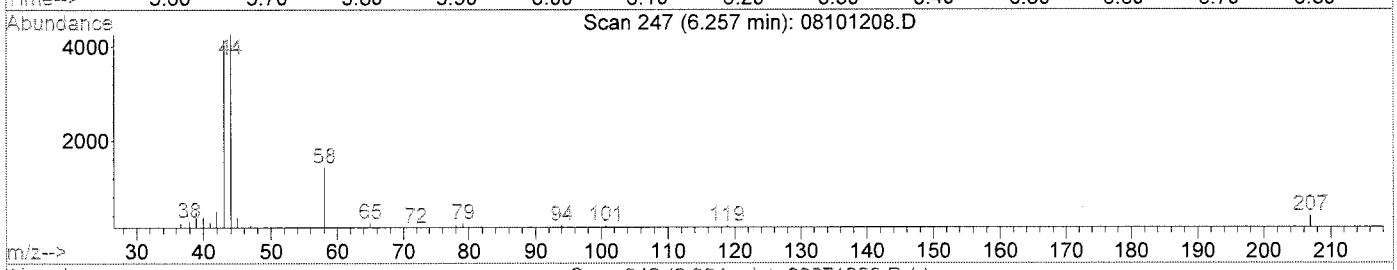
MM 8/13/12

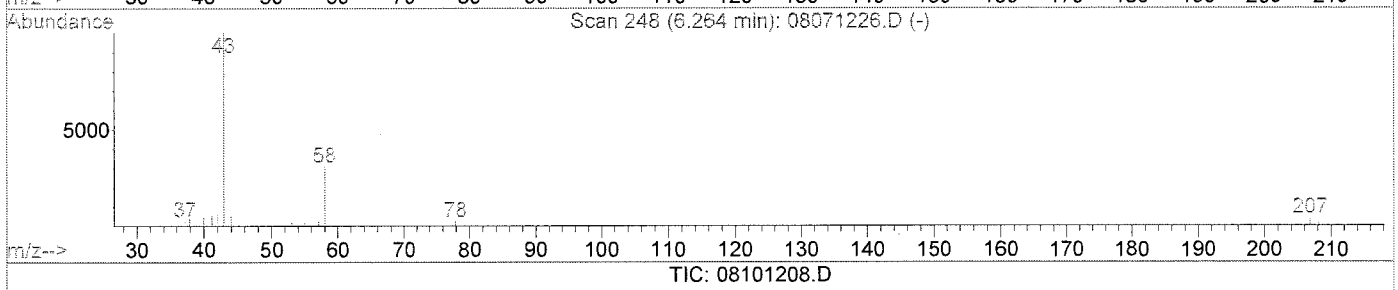
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 15.14ug/L

response 16281

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	24.34
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

IB

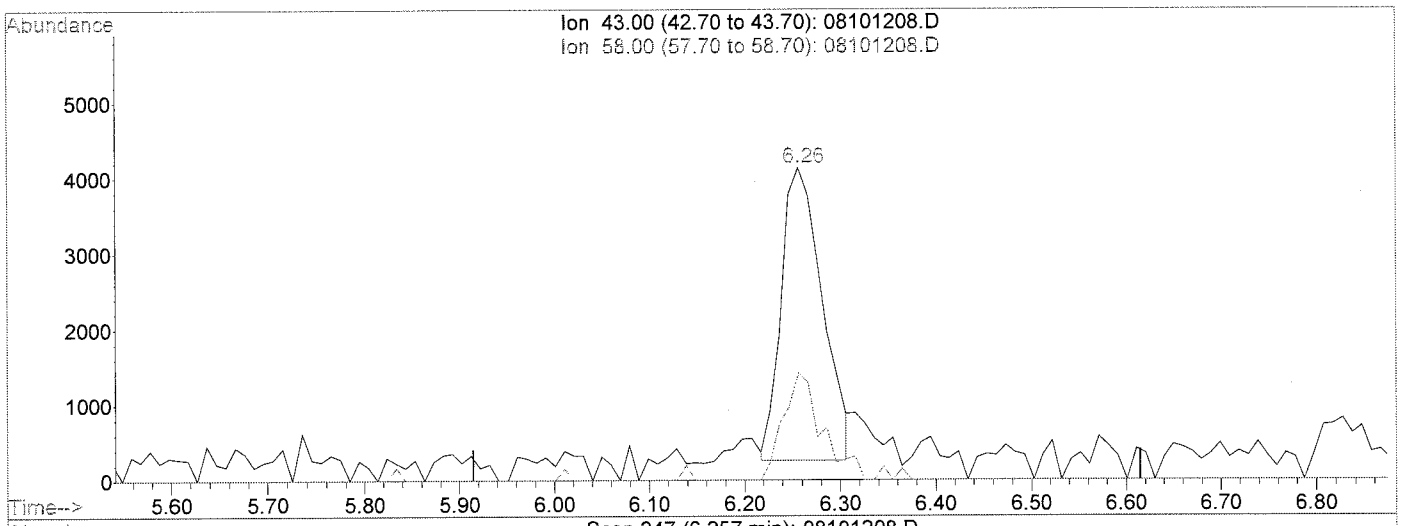
BL

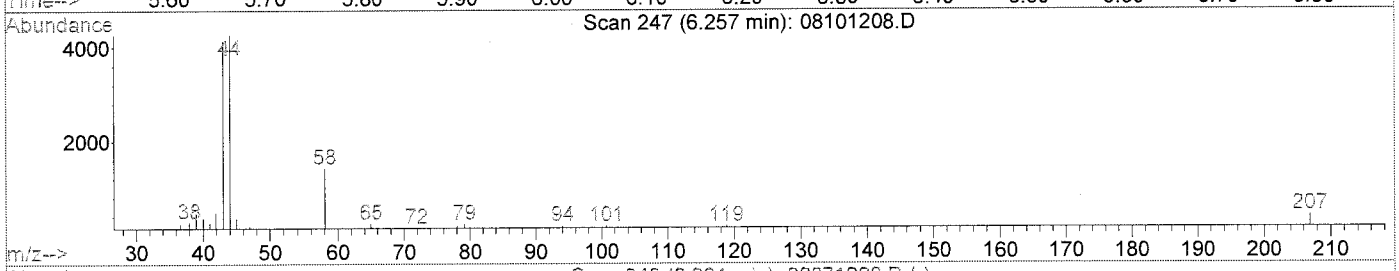
MM 8/13/12

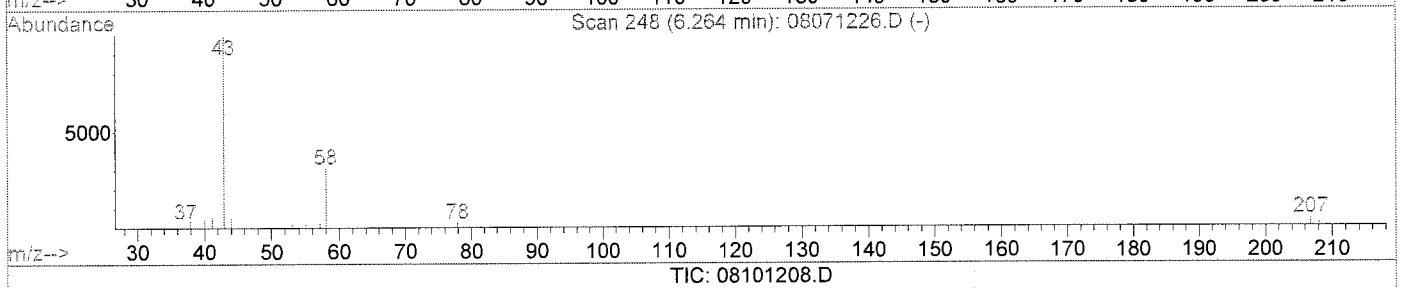
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 10.63ug/L m

response 11426

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	34.68#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	12.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	48.00%	
48) Toluene-d8	13.33	98	151060	11.69 ug/L	0.00
Spiked Amount 25.000			Recovery =	46.76%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	47.12%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	2824m	76.46 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	48.06 ug/L #	94
5) Dichlorodifluoromethane	4.11	85	99359	10.63 ug/L	98
6) Chloromethane	4.35	50	99085	10.28 ug/L	98
7) Vinyl Chloride	4.63	62	94725	12.47 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	11.54 ug/L	94
9) Bromomethane	5.18	94	57814	11.81 ug/L	99
10) Chloroethane	5.38	64	44676	10.64 ug/L	95
11) Trichlorofluoromethane	6.11	101	81825	10.18 ug/L	97
12) Acetone	6.26	43	11426m	10.63 ug/L	
13) Iodomethane	6.87	142	92968	10.81 ug/L	94
14) 1,1-Dichloroethene	6.81	96	53536	11.34 ug/L #	76
15) Methylene Chloride	6.99	84	48433	10.29 ug/L	87
16) Freon 113	7.07	101	57249	10.81 ug/L	98
17) Carbon disulfide	7.30	76	183724	10.61 ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	63718	12.47 ug/L	90
19) MTBE	8.00	73	90114	10.86 ug/L	97
20) 1,1-Dichloroethane	8.17	63	99374	11.40 ug/L	98
21) Vinyl Acetate	8.34	43	68389	10.07 ug/L	98
22) n-Hexane	8.69	86	15274	12.60 ug/L	89
23) 2-Butanone (MEK)	8.74	72	3909	12.86 ug/L #	54
24) Diisopropyl Ether (DIPE)	8.74	45	169576	11.46 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	59154	13.03 ug/L	87
26) Bromochloromethane	9.12	128	23711	12.41 ug/L	86
27) Chloroform	9.18	83	88095	11.66 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.41 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	11.10 ug/L	95
31) Tetrahydrofuran	9.59	72	3578	11.79 ug/L	86
32) 1,2-Dichloroethane	10.01	62	41085	9.31 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	75517	11.56 ug/L	94
34) (TAME) tert-Amyl methyl et	10.85	73	91702	11.02 ug/L	93
36) 1,1-Dichloropropene	10.38	75	86510	11.72 ug/L	97
37) Carbon Tetrachloride	10.61	117	64587	9.98 ug/L	96
38) Benzene	10.66	78	192601	11.26 ug/L	93
39) Dibromomethane	11.39	93	22947	11.10 ug/L	90
40) 1,2-Dichloropropane	11.43	63	45818	10.96 ug/L #	91

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	11.21 ug/L		94
42)	Bromodichloromethane	11.55	83	54093	10.29 ug/L		97
43)	2-Chlorovinylethylether	12.09	63	17562	14.63 ug/L	#	93
44)	cis-1,3-Dichloropropene	12.38	75	62172	11.41 ug/L	#	85
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	8.91 ug/L		97
46)	trans-1,3-Dichloropropene	12.96	75	46129	9.67 ug/L	#	87
47)	1,1,2-Trichloroethane	13.17	97	27529	11.42 ug/L	#	89
49)	Toluene	13.42	92	109934	12.04 ug/L		98
51)	1,3-Dichloropropane	13.49	76	47813	10.89 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.56 ug/L	#	93
53)	Dibromochloromethane	13.85	129	35116	11.02 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	11.85 ug/L		97
55)	Tetrachloroethene	14.41	164	47547	11.26 ug/L		96
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	11.04 ug/L		97
57)	Chlorobenzene	15.32	112	113987	12.63 ug/L		93
58)	Ethylbenzene	15.58	91	196709	11.95 ug/L		96
59)	m,p-Xylenes	15.85	106	77315	12.93 ug/L		90
60)	Styrene	16.30	104	101282	12.96 ug/L	#	92
61)	o-Xylene	16.40	106	72024	13.24 ug/L		91
64)	Bromoform	16.00	173	18119	9.53 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	12.08 ug/L	#	94
66)	1,2,3-Trichloropropane	16.59	110	7207	10.03 ug/L		95
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	10.45 ug/L	#	93
68)	Isopropylbenzene	16.90	105	174169	11.85 ug/L		100
69)	Bromobenzene	17.24	156	41493	10.93 ug/L		94
70)	n-Propylbenzene	17.51	91	220385	11.84 ug/L		99
71)	2-Chlorotoluene	17.65	91	118995	11.01 ug/L		99
72)	4-Chlorotoluene	17.75	91	114947	11.19 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	140555	12.28 ug/L		96
74)	tert-Butylbenzene	18.31	119	125080	12.13 ug/L		94
75)	1,2,4-Trimethylbenzene	18.46	105	130209	12.10 ug/L		93
76)	sec-Butylbenzene	18.61	105	203460	13.03 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	12.24 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	12.40 ug/L		98
79)	p-Isopropyltoluene	18.86	119	152942	13.13 ug/L		96
80)	1,2-Dichlorobenzene	19.28	146	63302	12.15 ug/L		97
81)	n-Butylbenzene	19.39	91	148822	13.81 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	9.29 ug/L	#	57
83)	1,2,4-Trichlorobenzene	21.50	180	37943	13.74 ug/L		97
84)	Napthalene	21.83	128	59549	14.05 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	8.23 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	14.08 ug/L		97

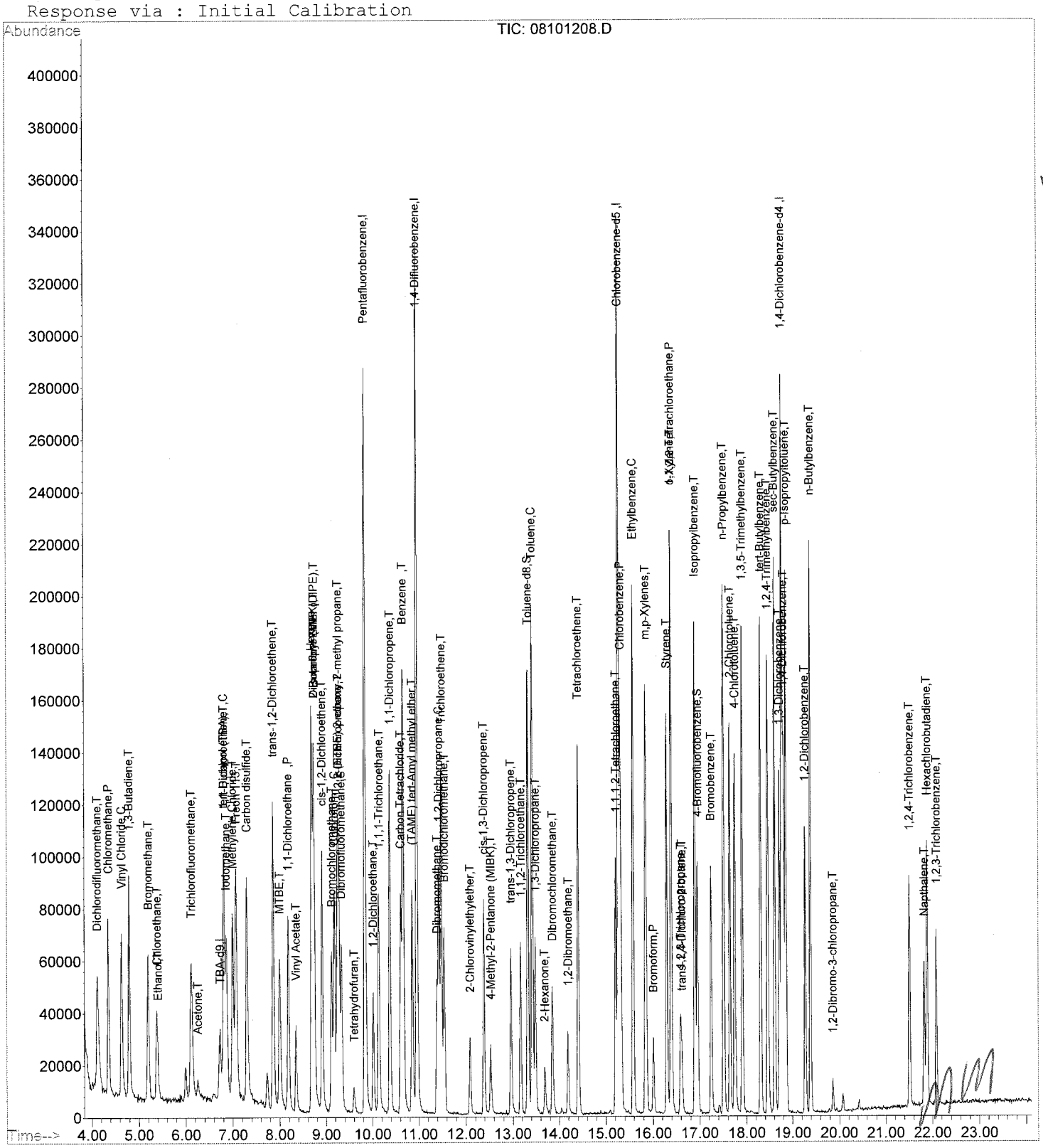
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 080712.M Fri Aug 10 12:41:13 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:40 2012 Quant Results File: 080712.RES

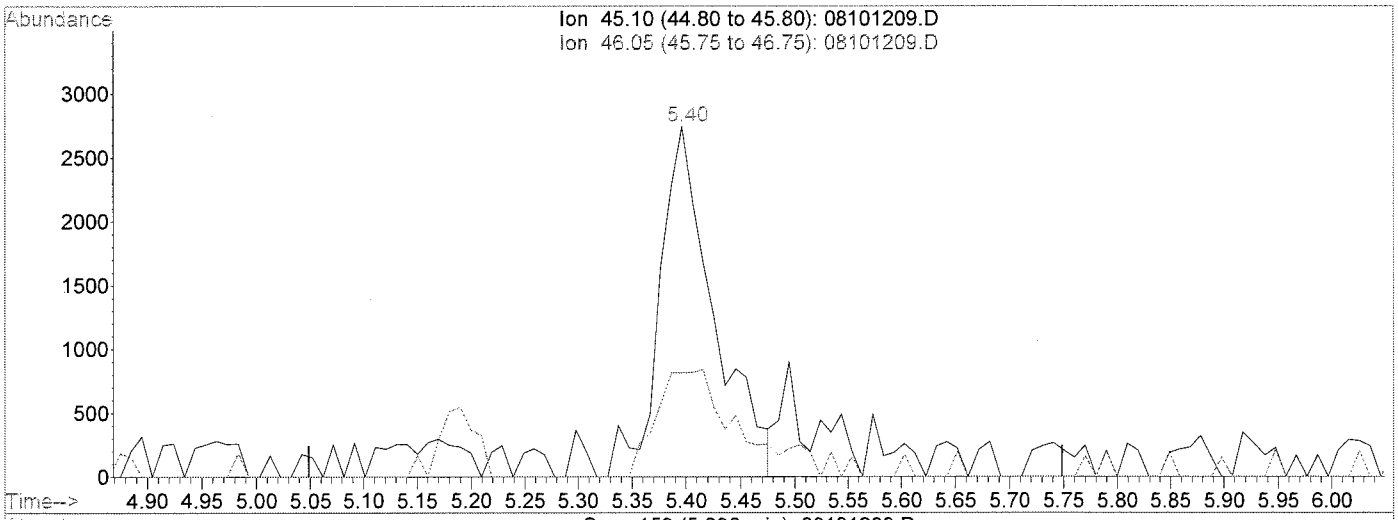
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

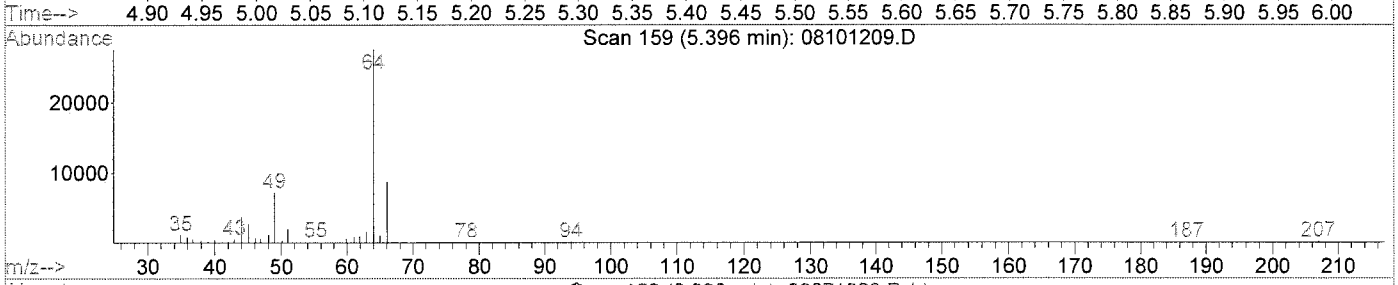


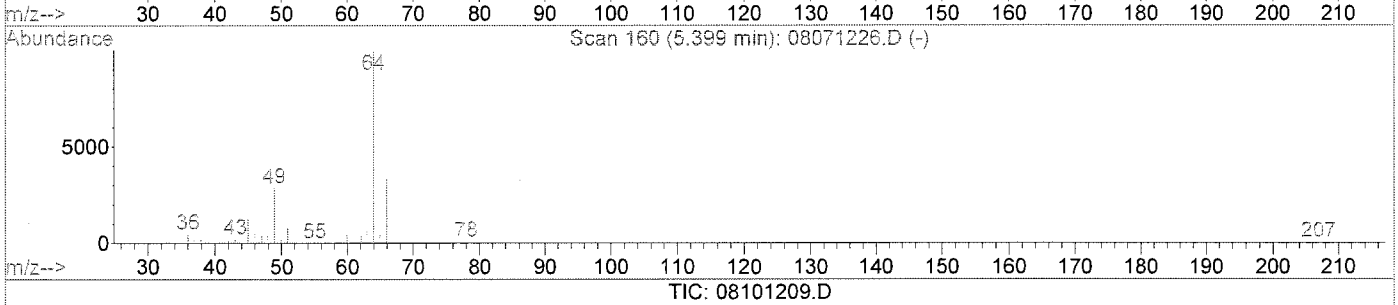
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 267.40ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

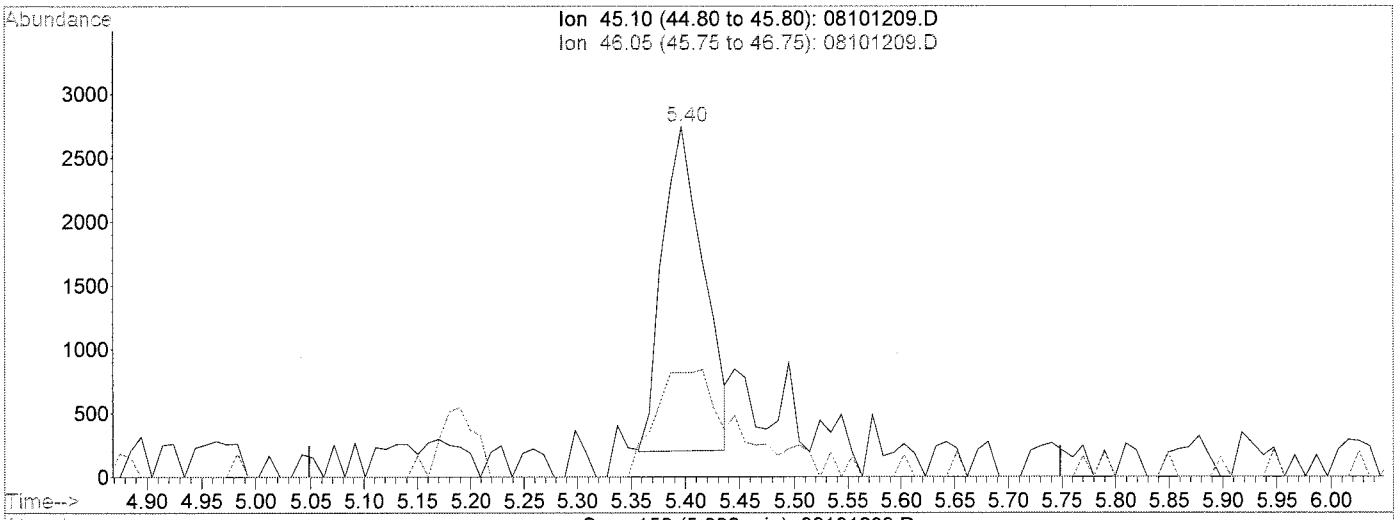
BL

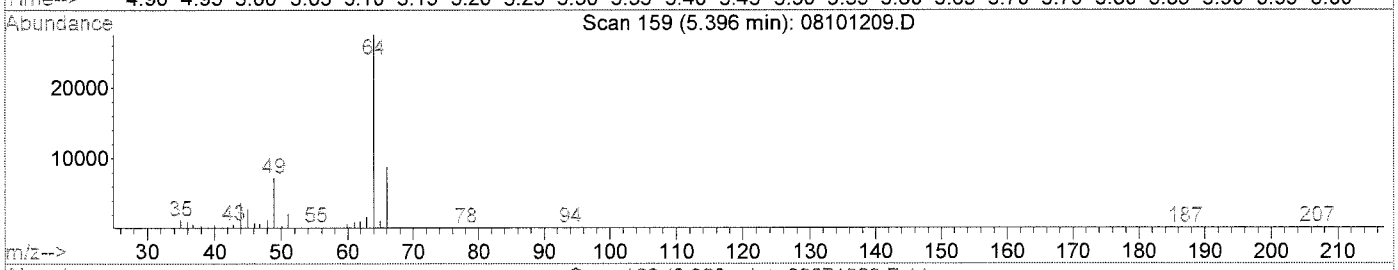
MM 8/13/12

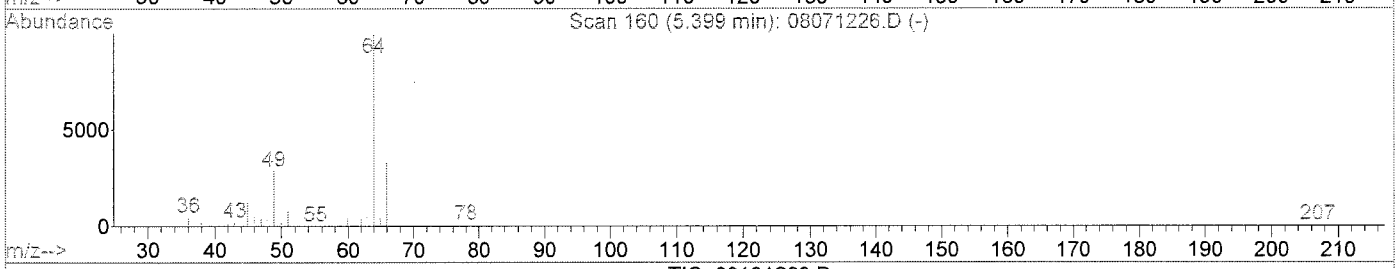
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(2) Ethanol (T)

5.40min 187.38ug/L m

response 6700

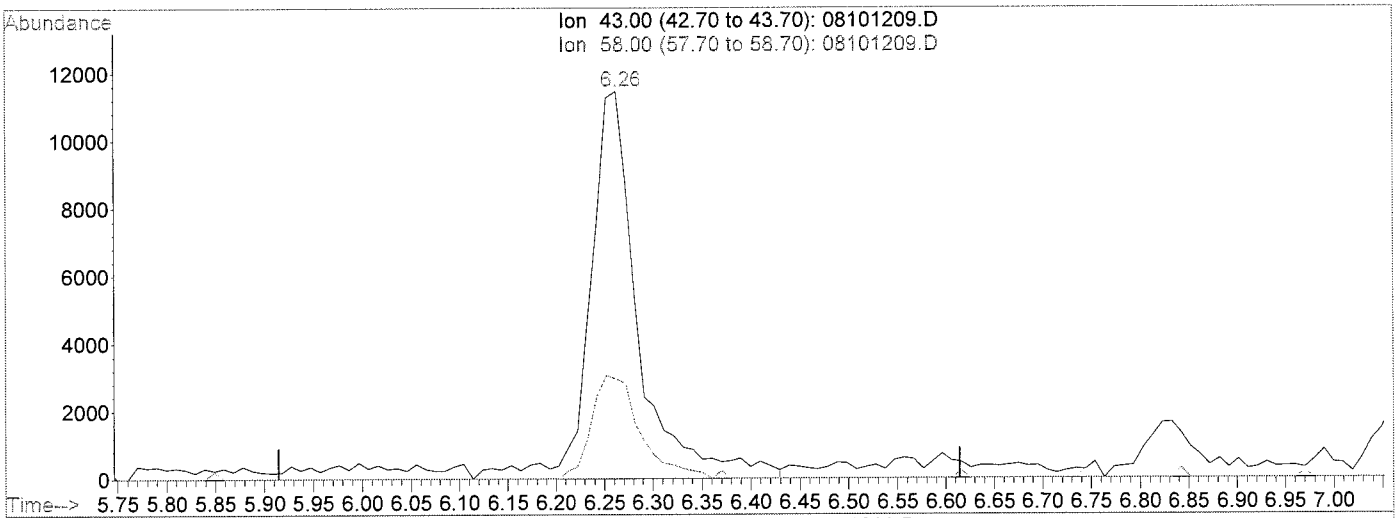
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	59.94#
0.00	0.00	0.00
0.00	0.00	0.00

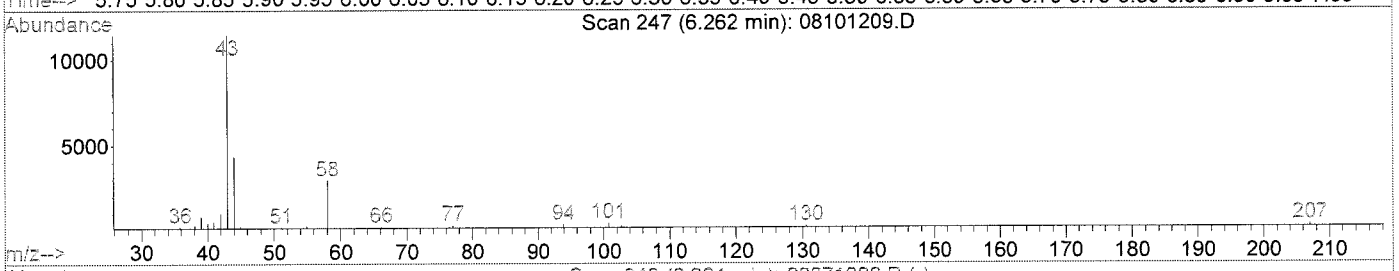
MM 8/13/12

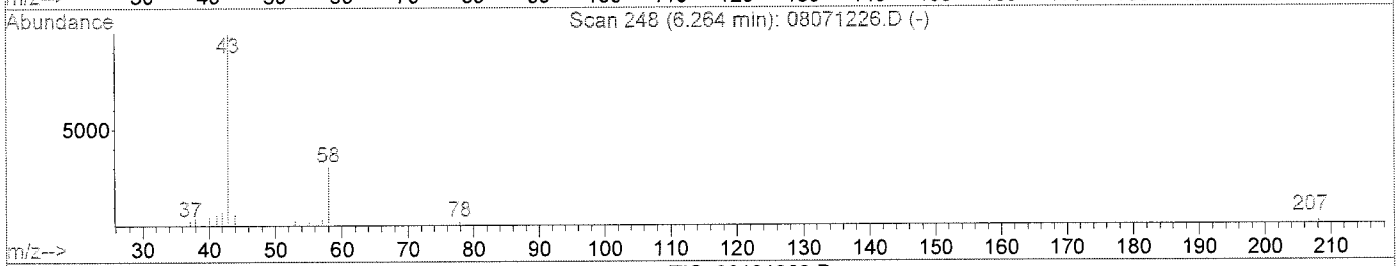
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 35.00ug/L

response 39847

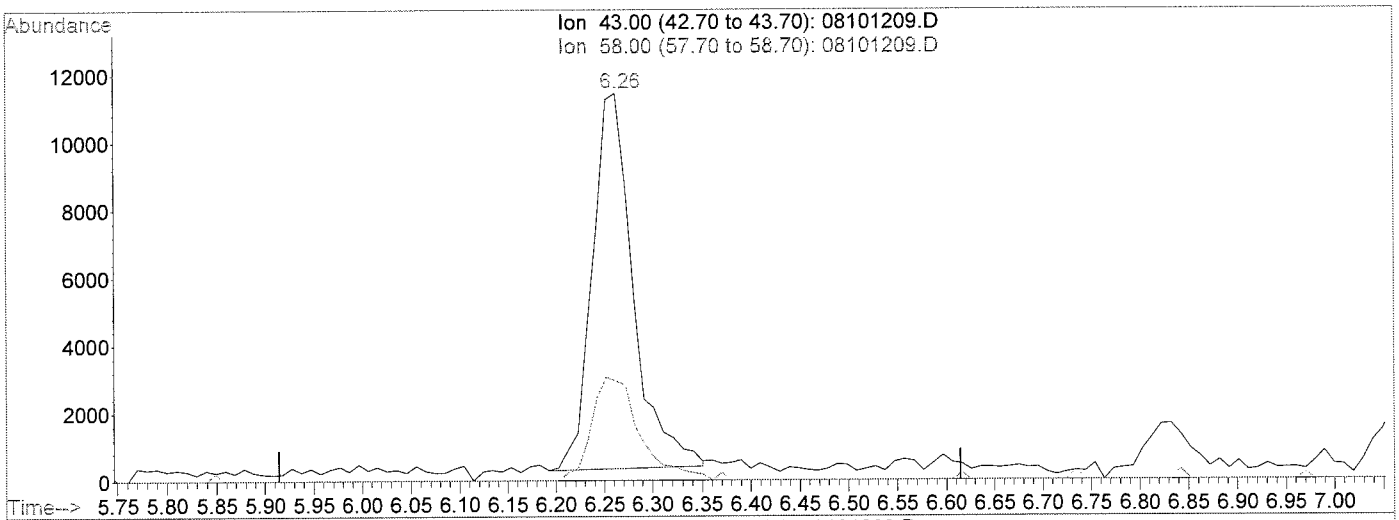
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

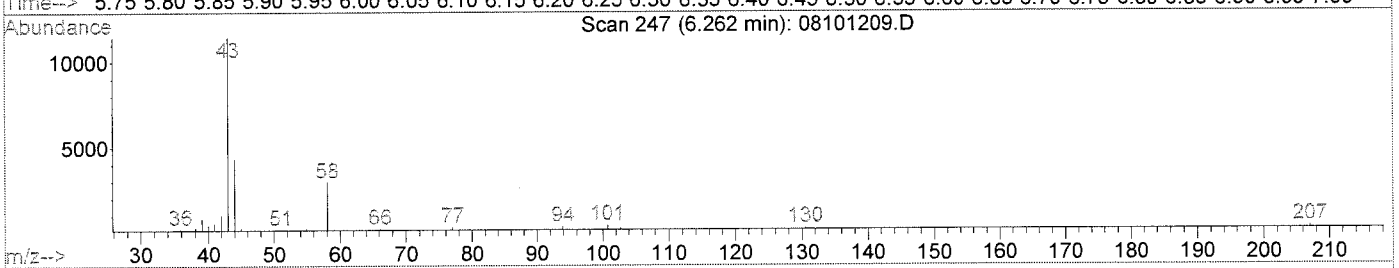
BL MM 8/13/12

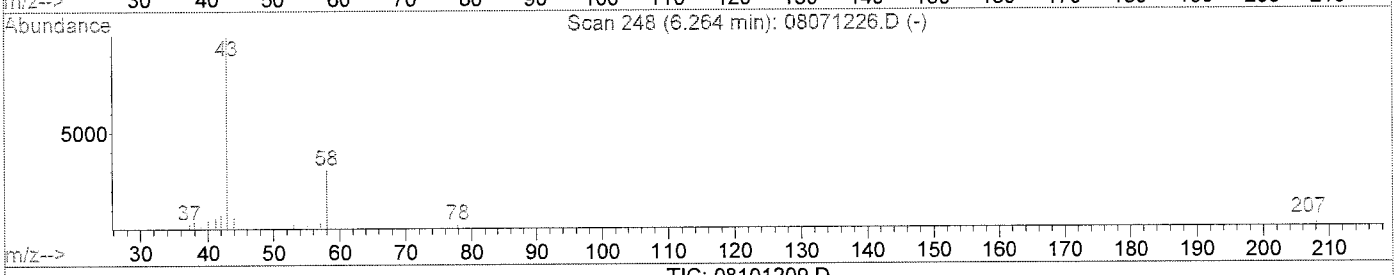
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(12) Acetone (T)

6.26min 28.81ug/L m

response 32794

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.37#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	28.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 113.68%	
48) Toluene-d8	13.32	98	387904	27.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 111.48%	
62) 4-Bromofluorobenzene	16.95	95	104965	26.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.44%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6700m	187.38 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	129.76 ug/L	99
5) Dichlorodifluoromethane	4.11	85	259999	26.28 ug/L	98
6) Chloromethane	4.35	50	249108	24.41 ug/L	99
7) Vinyl Chloride	4.63	62	234281	29.14 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	27.33 ug/L	91
9) Bromomethane	5.19	94	136870	26.41 ug/L	97
10) Chloroethane	5.38	64	115028	25.87 ug/L	97
11) Trichlorofluoromethane	6.11	101	203736	23.94 ug/L	99
12) Acetone	6.26	43	32794m	28.81 ug/L	
13) Iodomethane	6.86	142	233911	25.68 ug/L	93
14) 1,1-Dichloroethene	6.81	96	132114	26.43 ug/L #	78
15) Methylene Chloride	7.00	84	120484	24.17 ug/L	87
16) Freon 113	7.07	101	146166	26.07 ug/L	97
17) Carbon disulfide	7.29	76	465019	25.36 ug/L #	93
18) trans-1,2-Dichloroethene	7.87	96	156993	29.02 ug/L	90
19) MTBE	8.00	73	227954	25.95 ug/L	99
20) 1,1-Dichloroethane	8.18	63	249879	27.07 ug/L	98
21) Vinyl Acetate	8.34	43	179194	24.91 ug/L #	95
22) n-Hexane	8.69	86	38470	29.98 ug/L	88
23) 2-Butanone (MEK)	8.73	72	10850	33.72 ug/L #	7
24) Diisopropyl Ether (DIPE)	8.74	45	414456	26.45 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	143999	29.97 ug/L	89
26) Bromochloromethane	9.11	128	58383	28.86 ug/L	90
27) Chloroform	9.17	83	223471	27.92 ug/L #	95
28) 2,2-Dichloropropane	9.27	77	163680	24.31 ug/L #	78
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	25.69 ug/L	96
31) Tetrahydrofuran	9.60	72	8067	25.10 ug/L	90
32) 1,2-Dichloroethane	10.01	62	105341	22.54 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	190354	27.51 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	241539	27.42 ug/L	92
36) 1,1-Dichloropropene	10.37	75	205389	25.84 ug/L	95
37) Carbon Tetrachloride	10.61	117	164083	23.54 ug/L	99
38) Benzene	10.66	78	497157	26.99 ug/L #	91
39) Dibromomethane	11.39	93	58226	26.16 ug/L	95
40) 1,2-Dichloropropane	11.44	63	118189	26.25 ug/L #	88

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	140936	27.36 ug/L		97
42)	Bromodichloromethane	11.55	83	140799	24.87 ug/L		96
43)	2-Chlorovinylethylether	12.08	63	44348	33.04 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	164809	28.10 ug/L	#	84
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	66778	20.37 ug/L		96
46)	trans-1,3-Dichloropropene	12.95	75	123650	23.61 ug/L	#	84
47)	1,1,2-Trichloroethane	13.17	97	72275	27.84 ug/L	#	88
49)	Toluene	13.42	92	282282	28.72 ug/L		99
51)	1,3-Dichloropropane	13.49	76	124333	26.67 ug/L		100
52)	2-Hexanone	13.69	43	53049	25.56 ug/L	#	92
53)	Dibromochloromethane	13.86	129	92023	27.19 ug/L		100
54)	1,2-Dibromoethane	14.18	107	76183	28.73 ug/L		99
55)	Tetrachloroethene	14.41	164	125279	27.94 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	102745	27.86 ug/L		99
57)	Chlorobenzene	15.32	112	287853	30.02 ug/L		93
58)	Ethylbenzene	15.59	91	512045	29.28 ug/L		96
59)	m,p-Xylenes	15.84	106	195904	30.85 ug/L		92
60)	Styrene	16.29	104	271388	32.70 ug/L	#	91
61)	o-Xylene	16.39	106	178278	30.86 ug/L		94
64)	Bromoform	16.01	173	52543	22.91 ug/L		95
65)	1,1,2,2-Tetrachloroethane	16.39	83	80822	25.58 ug/L		99
66)	1,2,3-Trichloropropane	16.59	110	19363	23.33 ug/L		97
67)	trans-1,4-Dichloro-2-buten	16.62	53	18848	22.67 ug/L	#	87
68)	Isopropylbenzene	16.89	105	450007	26.49 ug/L		99
69)	Bromobenzene	17.25	156	113170	25.81 ug/L		91
70)	n-Propylbenzene	17.50	91	579703	26.97 ug/L		98
71)	2-Chlorotoluene	17.64	91	304359	24.38 ug/L		95
72)	4-Chlorotoluene	17.75	91	297241	25.04 ug/L		93
73)	1,3,5-Trimethylbenzene	17.91	105	362766	27.43 ug/L		95
74)	tert-Butylbenzene	18.30	119	324105	27.20 ug/L		93
75)	1,2,4-Trimethylbenzene	18.46	105	337490	27.14 ug/L		95
76)	sec-Butylbenzene	18.61	105	528569	29.31 ug/L		98
77)	1,3-Dichlorobenzene	18.71	146	201590	27.15 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	196096	27.98 ug/L		97
79)	p-Isopropyltoluene	18.85	119	400272	29.75 ug/L		95
80)	1,2-Dichlorobenzene	19.28	146	166930	27.73 ug/L		99
81)	n-Butylbenzene	19.39	91	388212	31.19 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	9202	25.02 ug/L		85
83)	1,2,4-Trichlorobenzene	21.51	180	95814	30.03 ug/L		97
84)	Napthalene	21.82	128	152397	31.11 ug/L		100
85)	Hexachlorobutadiene	21.88	225	71752	20.04 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	77645	30.90 ug/L		98

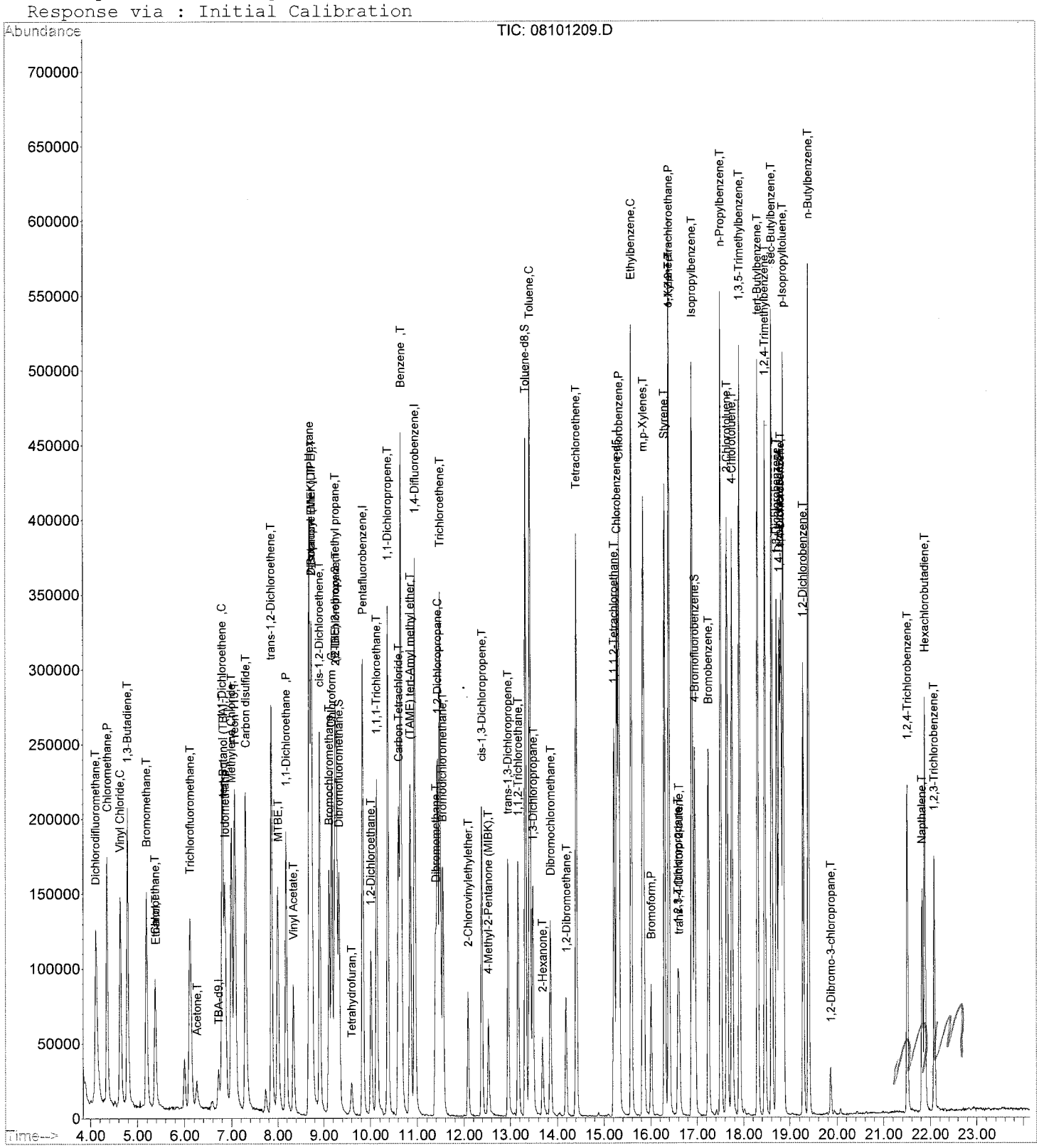
MM

(#) = qualifier out of range (m) = manual integration
08101209.D 080712.M Fri Aug 10 12:42:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:41 2012 Quant Results File: 080712.RES

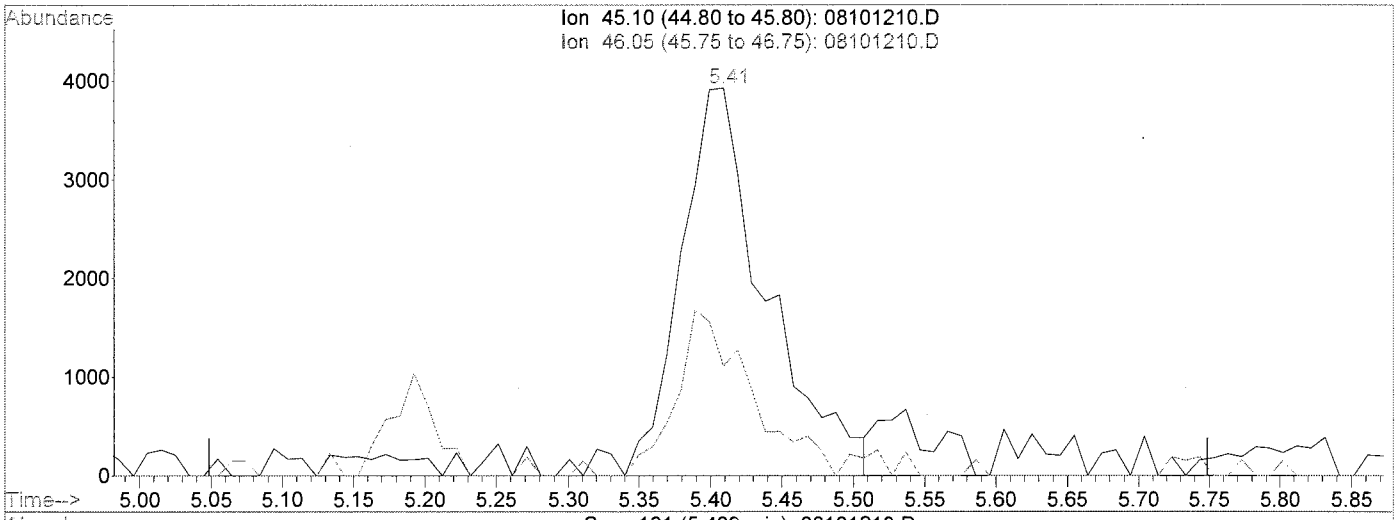
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

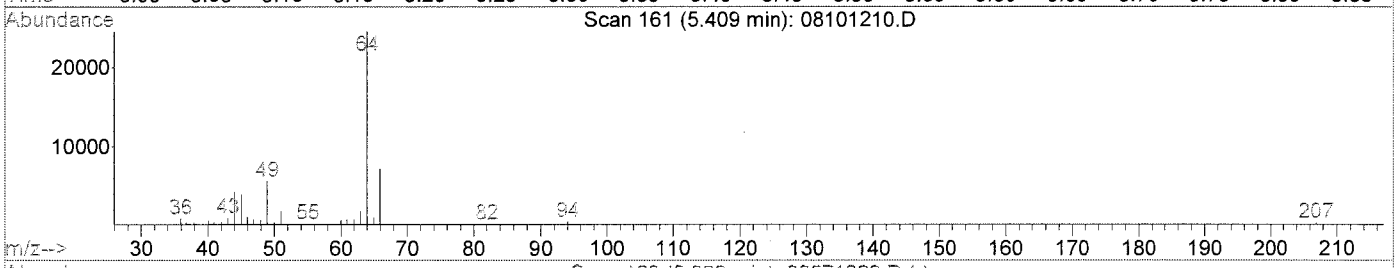


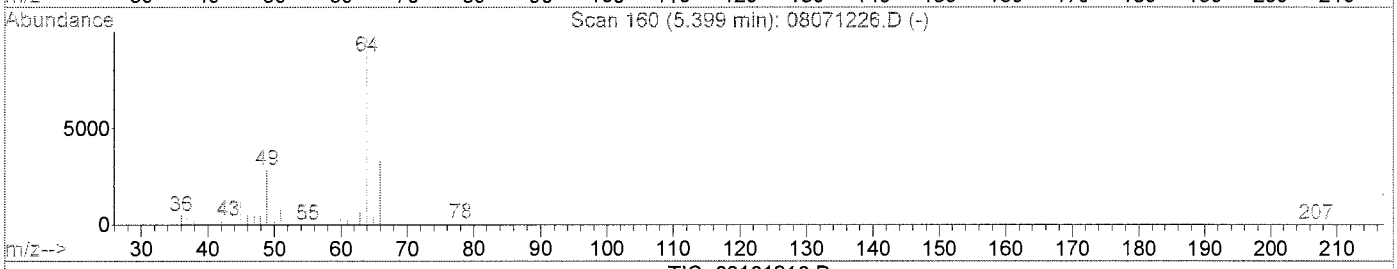
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:42 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 452.57ug/L

response 16581

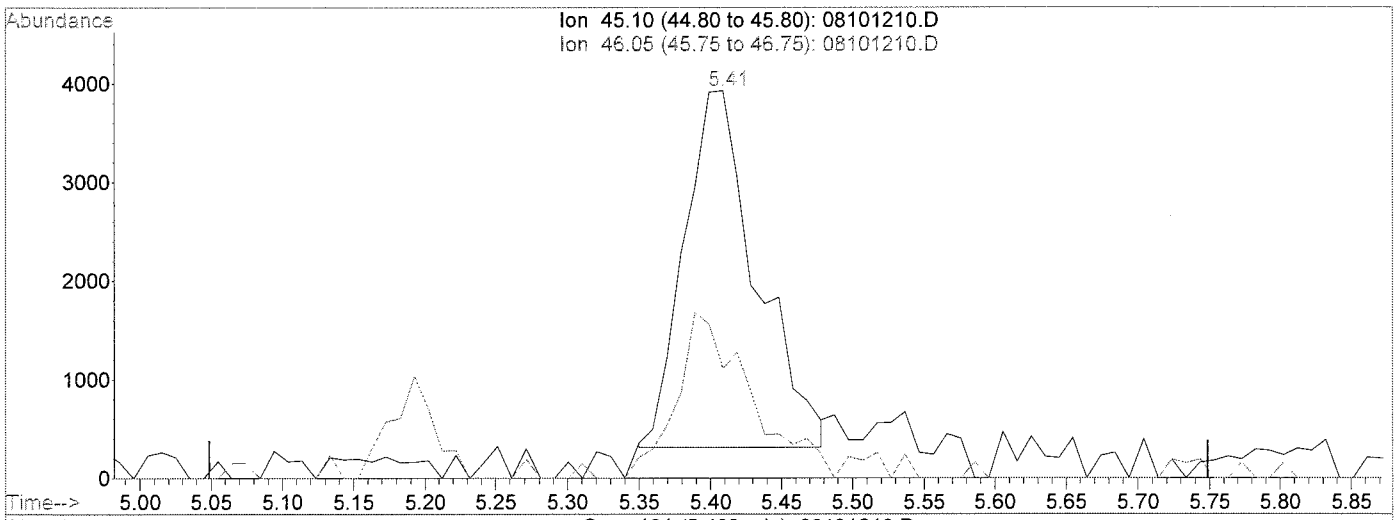
Ion	Exp%	Act%
45.10	100	100
46.05	38.60	36.61
0.00	0.00	0.00
0.00	0.00	0.00

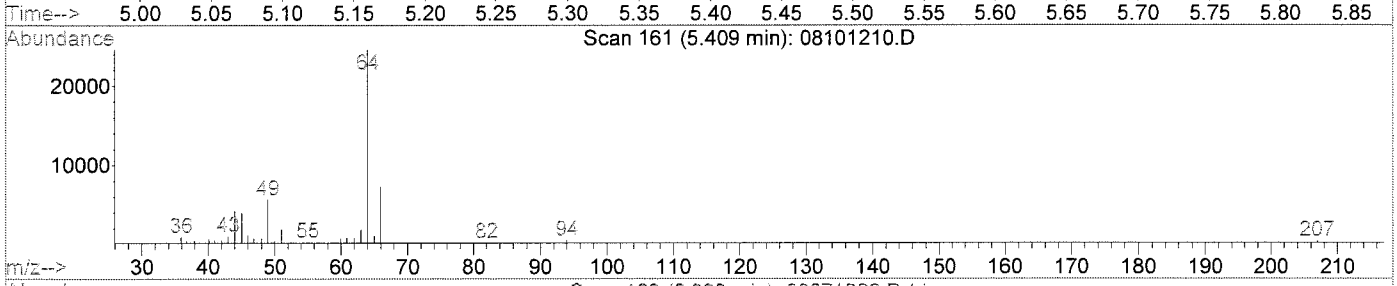
8/13/12
BL
MM 8/13/12

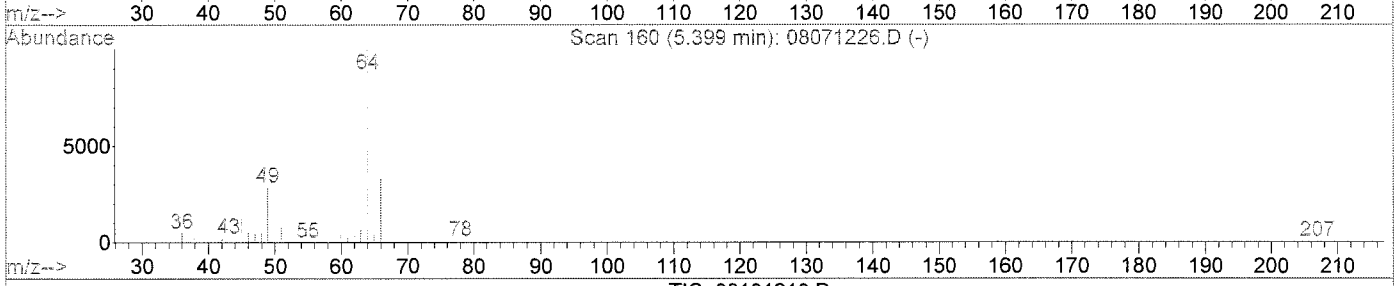
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 348.44ug/L m

response 12766

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

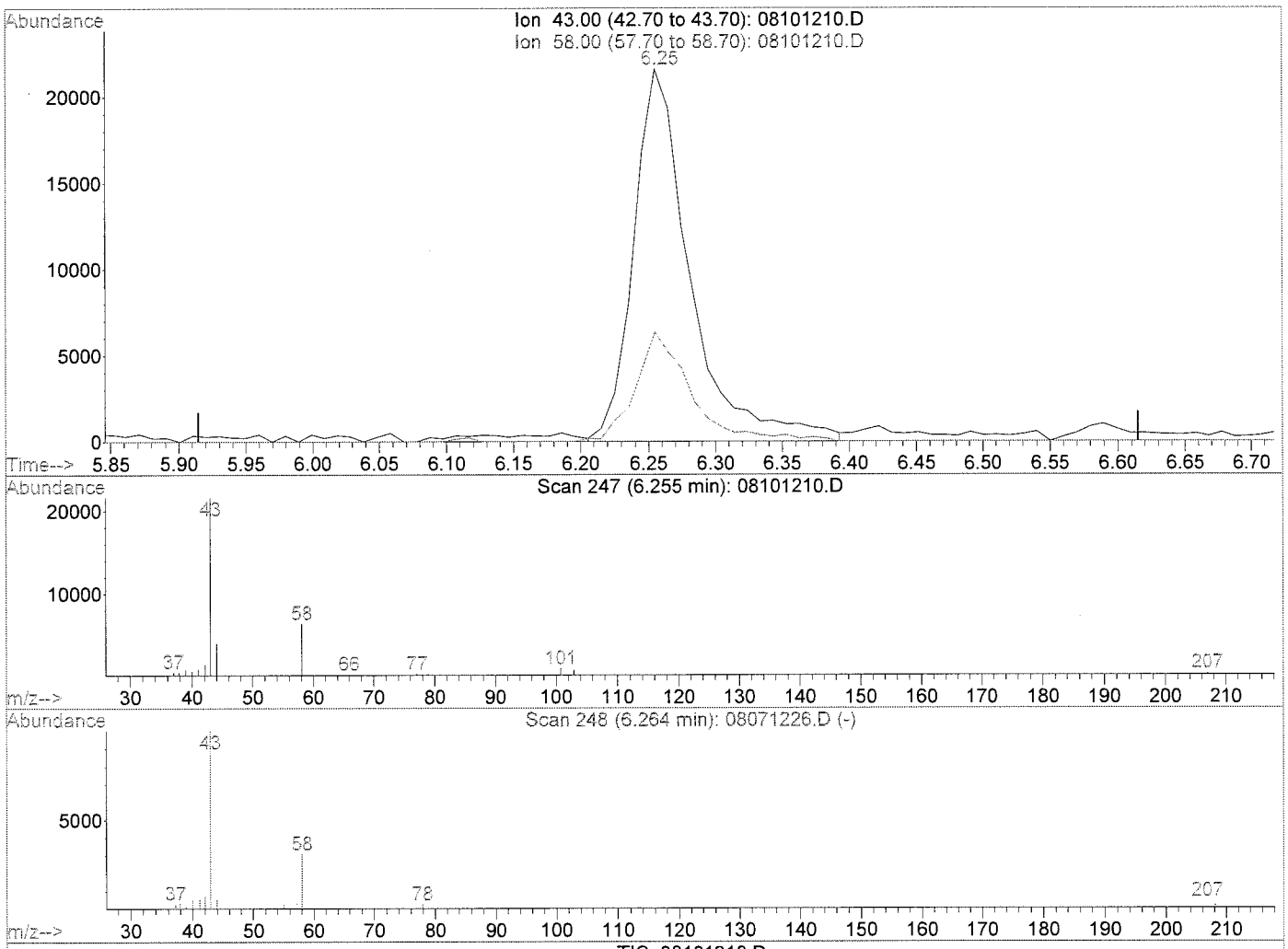
8/13/12

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration



8/13/12

(12) Acetone (T)

6.25min 58.37ug/L

response 63143

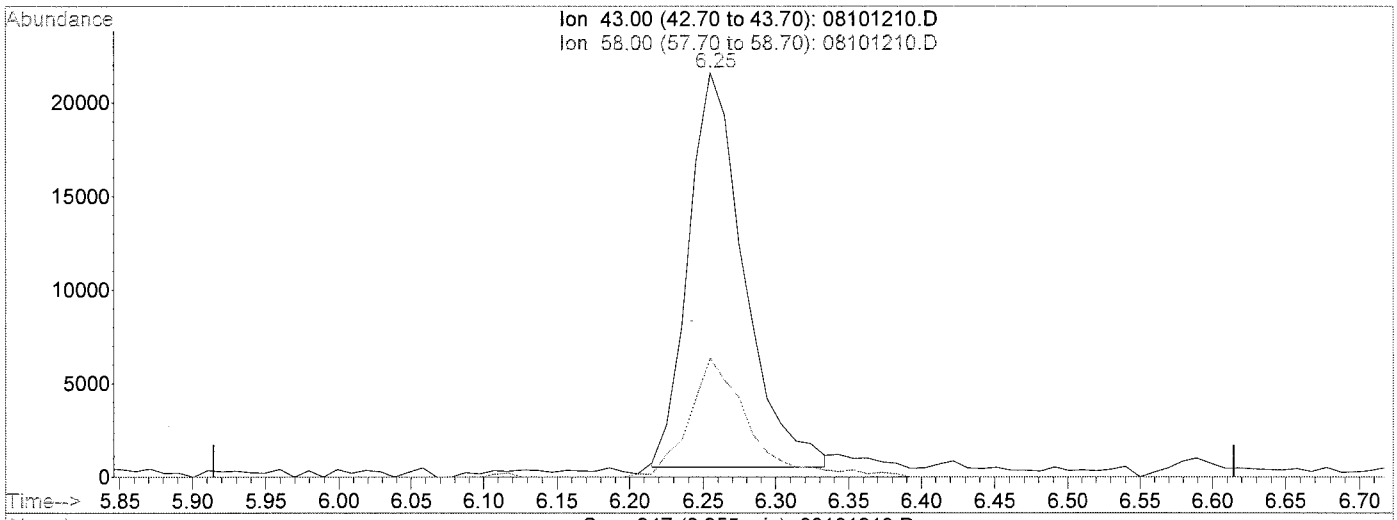
Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

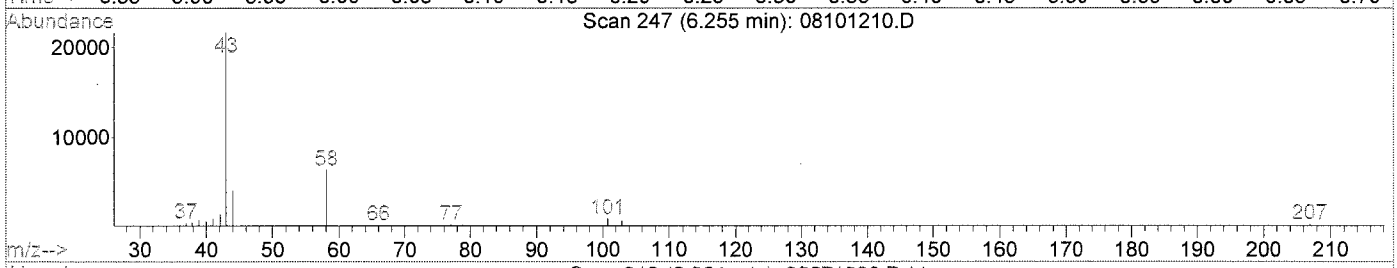
BL MNM 8/13/12

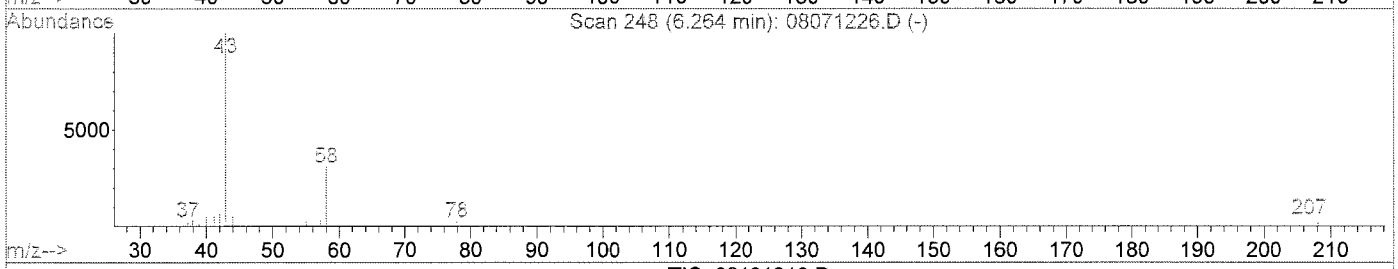
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 51.71ug/L m

response 55932

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.32#
0.00	0.00	0.00
0.00	0.00	0.00

A
MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00	ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	218809	54.12	ug/L	0.00
Spiked Amount 25.000			Recovery	=	216.48%	
48) Toluene-d8	13.33	98	687603	51.75	ug/L	0.00
Spiked Amount 25.000			Recovery	=	207.00%	
62) 4-Bromofluorobenzene	16.96	95	191956	48.87	ug/L	0.00
Spiked Amount 25.000			Recovery	=	195.48%	
Target Compounds						Qvalue
2) Ethanol	5.41	45	12766m	348.44	ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	229.78	ug/L	98
5) Dichlorodifluoromethane	4.11	85	495471	52.70	ug/L	98
6) Chloromethane	4.36	50	463586	47.80	ug/L	100
7) Vinyl Chloride	4.63	62	430153	56.30	ug/L	99
8) 1,3-Butadiene	4.79	54	236893	53.58	ug/L	90
9) Bromomethane	5.19	94	266149	54.04	ug/L	98
10) Chloroethane	5.38	64	224829	53.22	ug/L	95
11) Trichlorofluoromethane	6.12	101	394660	48.80	ug/L	100
12) Acetone	6.25	43	55932m	51.71	ug/L	
13) Iodomethane	6.86	142	447731	51.73	ug/L	93
14) 1,1-Dichloroethene	6.81	96	253470	53.37	ug/L #	77
15) Methylene Chloride	7.00	84	232960	49.18	ug/L	87
16) Freon 113	7.07	101	270520	50.78	ug/L	99
17) Carbon disulfide	7.30	76	898748	51.58	ug/L #	92
18) trans-1,2-Dichloroethene	7.86	96	303726	59.07	ug/L	91
19) MTBE	8.01	73	432429	51.81	ug/L	99
20) 1,1-Dichloroethane	8.18	63	476710	54.34	ug/L	98
21) Vinyl Acetate	8.34	43	345852	50.60	ug/L #	95
22) n-Hexane	8.69	86	77107	63.23	ug/L	78
23) 2-Butanone (MEK)	8.72	72	17742	58.03	ug/L #	70
24) Diisopropyl Ether (DIPE)	8.73	45	798842	53.65	ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	279884	61.29	ug/L	88
26) Bromochloromethane	9.12	128	116879	60.79	ug/L	97
27) Chloroform	9.18	83	417208	54.86	ug/L #	94
28) 2,2-Dichloropropane	9.27	77	310117	48.46	ug/L #	80
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	52.09	ug/L	96
31) Tetrahydrofuran	9.60	72	16252	53.21	ug/L	79
32) 1,2-Dichloroethane	10.01	62	203344	45.78	ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	353898	53.82	ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	466510	55.73	ug/L	92
36) 1,1-Dichloropropene	10.38	75	398689	52.55	ug/L	96
37) Carbon Tetrachloride	10.61	117	317819	47.76	ug/L	98
38) Benzene	10.66	78	947346	53.88	ug/L #	91
39) Dibromomethane	11.39	93	114917	54.08	ug/L	94
40) 1,2-Dichloropropane	11.44	63	221264	51.47	ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	53.95 ug/L	97
42) Bromodichloromethane	11.55	83	271789	50.29 ug/L	97
43) 2-Chlorovinylethylether	12.09	63	88468	64.86 ug/L	95
44) cis-1,3-Dichloropropene	12.38	75	321115	57.35 ug/L #	83
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	41.86 ug/L	99
46) trans-1,3-Dichloropropene	12.95	75	237953	47.29 ug/L #	84
47) 1,1,2-Trichloroethane	13.17	97	137777	55.59 ug/L	91
49) Toluene	13.42	92	546857	58.28 ug/L	98
51) 1,3-Dichloropropane	13.48	76	244280	53.12 ug/L	99
52) 2-Hexanone	13.68	43	100587	49.14 ug/L #	88
53) Dibromochloromethane	13.85	129	183912	55.09 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	54.39 ug/L	96
55) Tetrachloroethene	14.41	164	226510	51.21 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	51.39 ug/L	97
57) Chlorobenzene	15.32	112	554587	58.64 ug/L	94
58) Ethylbenzene	15.58	91	975473	56.56 ug/L	96
59) m,p-Xylenes	15.85	106	377996	60.35 ug/L	91
60) Styrene	16.30	104	514481	62.85 ug/L #	92
61) o-Xylene	16.40	106	349209	61.28 ug/L	91
64) Bromoform	16.01	173	108591	47.26 ug/L	96
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	52.54 ug/L	97
66) 1,2,3-Trichloropropane	16.59	110	37829	48.36 ug/L	99
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	41.70 ug/L #	75
68) Isopropylbenzene	16.90	105	857226	53.54 ug/L	97
69) Bromobenzene	17.25	156	212979	51.54 ug/L	92
70) n-Propylbenzene	17.51	91	1098531	54.22 ug/L	98
71) 2-Chlorotoluene	17.65	91	577687	49.10 ug/L	96
72) 4-Chlorotoluene	17.75	91	568985	50.86 ug/L	93
73) 1,3,5-Trimethylbenzene	17.91	105	676601	54.29 ug/L	95
74) tert-Butylbenzene	18.30	119	601956	53.60 ug/L	92
75) 1,2,4-Trimethylbenzene	18.46	105	638890	54.52 ug/L	95
76) sec-Butylbenzene	18.61	105	960020	56.47 ug/L	98
77) 1,3-Dichlorobenzene	18.72	146	388318	55.49 ug/L	97
78) 1,4-Dichlorobenzene	18.81	146	375463	56.84 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	58.52 ug/L	95
80) 1,2-Dichlorobenzene	19.28	146	317732	56.00 ug/L	99
81) n-Butylbenzene	19.39	91	715599	60.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	48.97 ug/L	84
83) 1,2,4-Trichlorobenzene	21.51	180	170461	56.69 ug/L	100
84) Napthalene	21.83	128	258045	55.90 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	36.05 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	55.90 ug/L	98

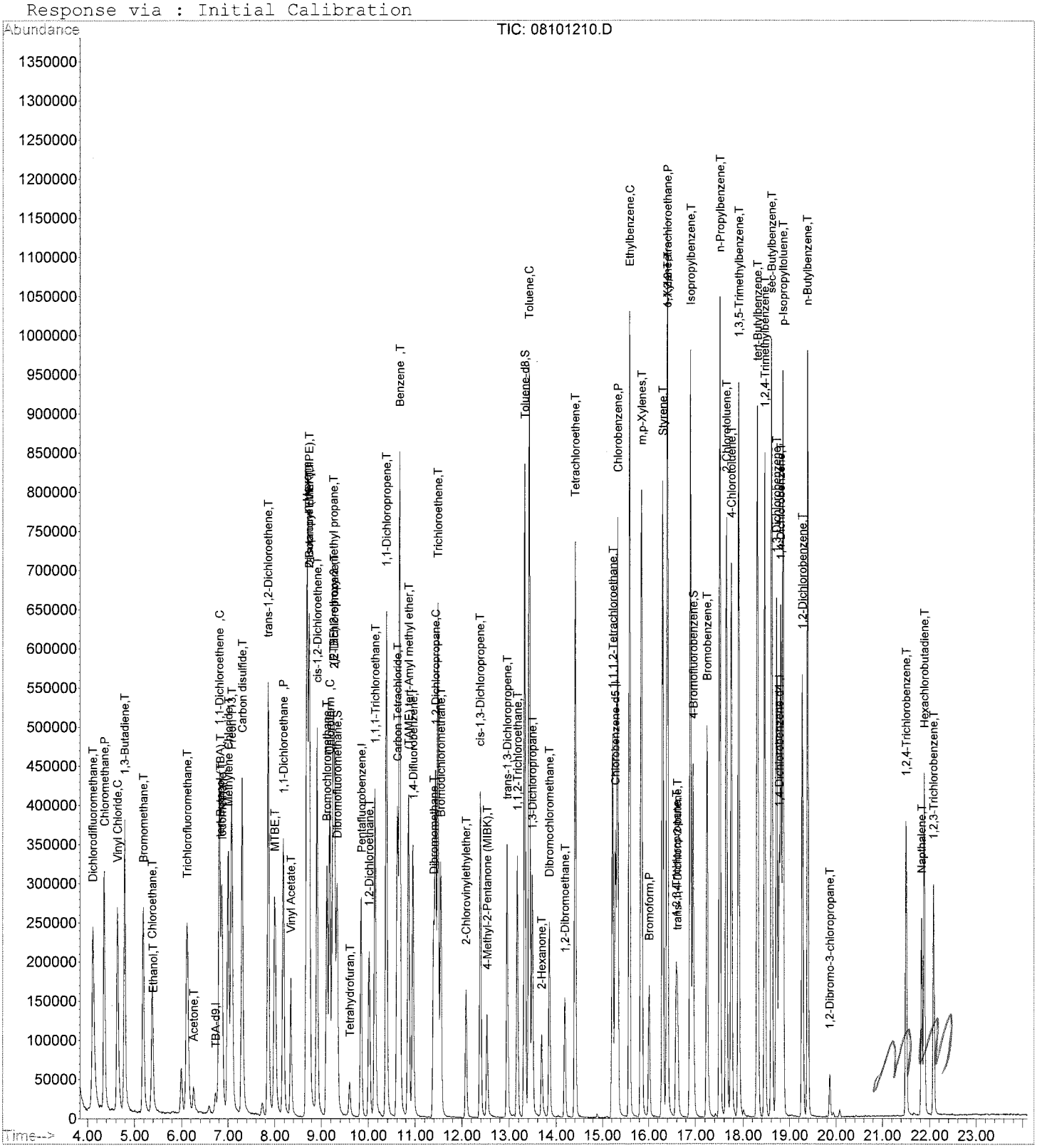
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 080712.M Fri Aug 10 12:44:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:43 2012 Quant Results File: 080712.RES

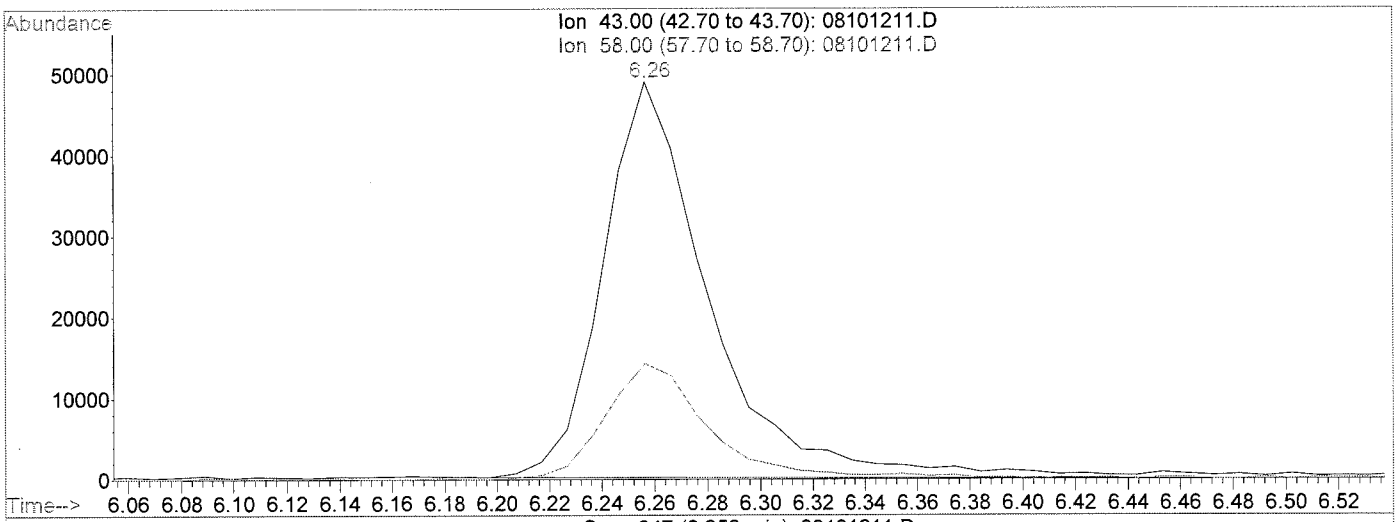
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

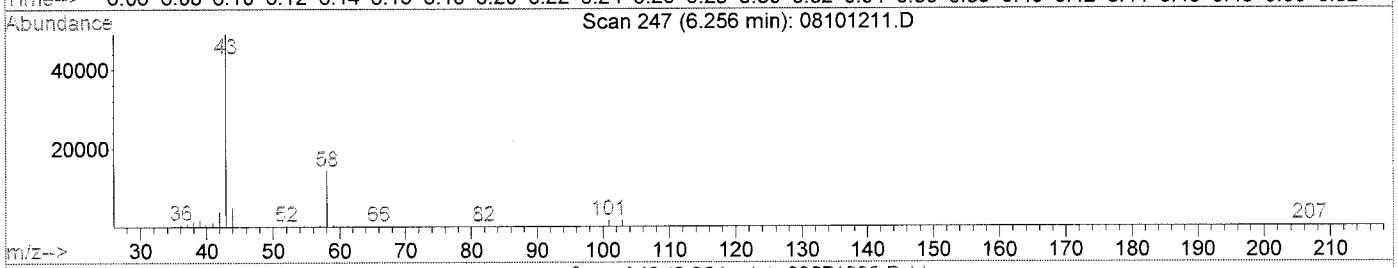


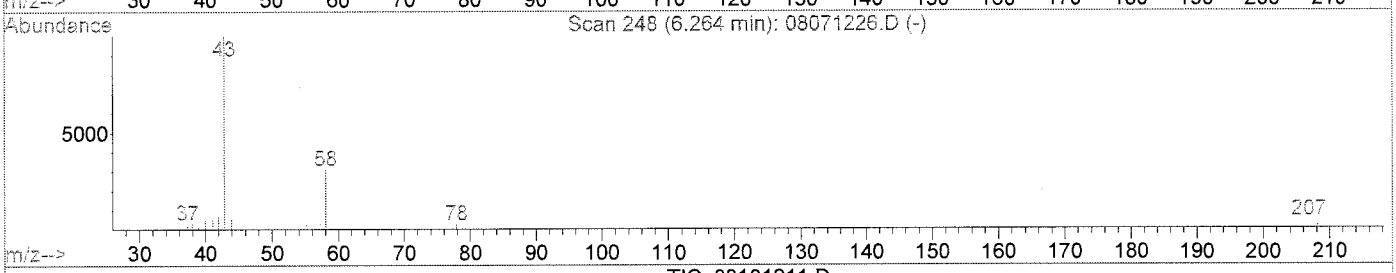
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 124.13ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

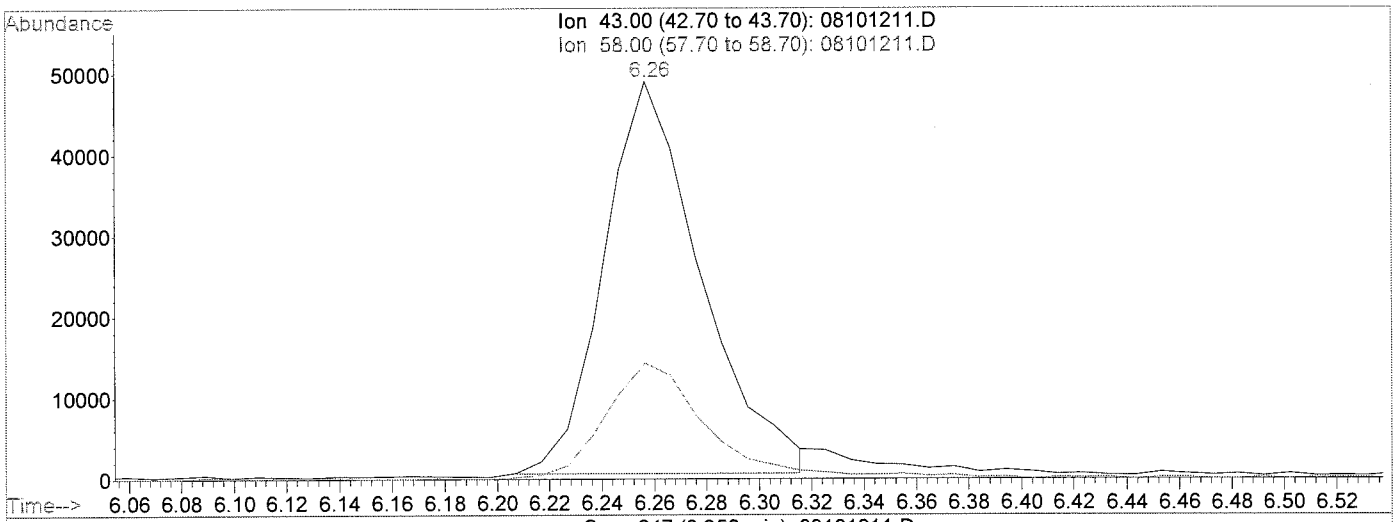
BL

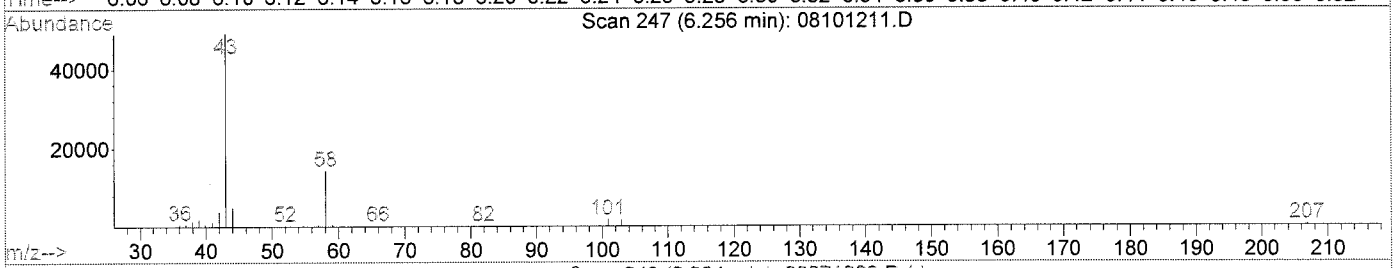
MM 8/13/12

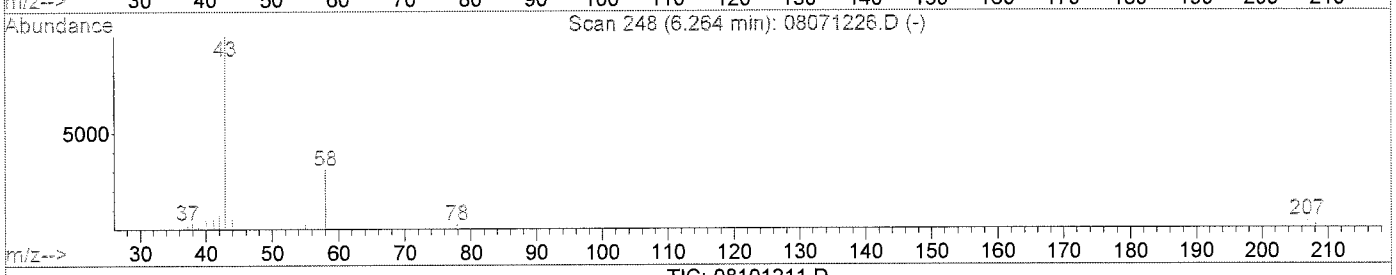
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 112.83ug/L m

response 124363

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	31.75#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	112.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 448.96%	
48) Toluene-d8	13.33	98	1402084	102.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 409.44%	
62) 4-Bromofluorobenzene	16.96	95	412368	103.79 ug/L	0.00
Spiked Amount 25.000			Recovery	= 415.16%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	845.73 ug/L	87
3) tert-Butanol (TBA)	6.84	59	168336	487.29 ug/L	98
5) Dichlorodifluoromethane	4.11	85	964320	100.65 ug/L	100
6) Chloromethane	4.35	50	890682	90.12 ug/L	99
7) Vinyl Chloride	4.63	62	798541	102.57 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	102.57 ug/L	91
9) Bromomethane	5.18	94	525441	104.71 ug/L	97
10) Chloroethane	5.38	64	441624	102.59 ug/L	97
11) Trichlorofluoromethane	6.11	101	763247	92.62 ug/L	98
12) Acetone	6.26	43	124363m	112.83 ug/L	
13) Iodomethane	6.87	142	901113	102.17 ug/L	94
14) 1,1-Dichloroethene	6.81	96	508761	105.12 ug/L #	76
15) Methylene Chloride	7.00	84	470851	97.56 ug/L	86
16) Freon 113	7.07	101	528427	97.35 ug/L	99
17) Carbon disulfide	7.30	76	1756954	98.95 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	597492	114.05 ug/L	88
19) MTBE	8.01	73	913608	107.43 ug/L	99
20) 1,1-Dichloroethane	8.18	63	943450	105.54 ug/L	98
21) Vinyl Acetate	8.34	43	745936	107.10 ug/L #	96
22) n-Hexane	8.69	86	148544	119.54 ug/L	80
23) 2-Butanone (MEK)	8.73	72	42692	137.03 ug/L #	31
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	108.15 ug/L	98
25) cis-1,2-Dichloroethene	8.91	96	568187	122.11 ug/L	88
26) Bromochloromethane	9.12	128	236072	120.50 ug/L	98
27) Chloroform	9.18	83	844569	108.99 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	597220	91.59 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	107.12 ug/L	96
31) Tetrahydrofuran	9.60	72	36606	117.61 ug/L #	75
32) 1,2-Dichloroethane	10.01	62	408116	90.17 ug/L	97
33) 1,1,1-Trichloroethane	10.14	97	706415	105.43 ug/L	94
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	119.50 ug/L	91
36) 1,1-Dichloropropene	10.38	75	752175	96.17 ug/L	95
37) Carbon Tetrachloride	10.61	117	629787	91.80 ug/L	98
38) Benzene	10.66	78	1918047	105.83 ug/L #	91
39) Dibromomethane	11.39	93	240215	109.65 ug/L	94
40) 1,2-Dichloropropane	11.44	63	454008	102.45 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.49	95	523897	103.35 ug/L		96
42)	Bromodichloromethane	11.55	83	571821	102.64 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	190358	122.05 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	663914	115.02 ug/L	#	82
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	91.20 ug/L		94
46)	trans-1,3-Dichloropropene	12.95	75	509355	97.85 ug/L	#	85
47)	1,1,2-Trichloroethane	13.17	97	286704	112.22 ug/L	#	90
49)	Toluene	13.43	92	1076337	111.27 ug/L		97
51)	1,3-Dichloropropane	13.49	76	517001	111.13 ug/L		99
52)	2-Hexanone	13.68	43	235539	113.74 ug/L	#	89
53)	Dibromochloromethane	13.85	129	396223	117.33 ug/L		99
54)	1,2-Dibromoethane	14.18	107	308443	116.56 ug/L		97
55)	Tetrachloroethene	14.41	164	452394	101.11 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	101.04 ug/L		95
57)	Chlorobenzene	15.33	112	1118631	116.92 ug/L		93
58)	Ethylbenzene	15.58	91	1923271	110.23 ug/L		96
59)	m,p-Xylenes	15.85	106	762608	120.37 ug/L		90
60)	Styrene	16.30	104	1032436	124.69 ug/L	#	92
61)	o-Xylene	16.40	106	651161	112.96 ug/L		92
64)	Bromoform	16.01	173	219950	89.79 ug/L		96
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	104.83 ug/L		97
66)	1,2,3-Trichloropropane	16.59	110	78214	103.05 ug/L		100
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	88.29 ug/L	#	76
68)	Isopropylbenzene	16.90	105	1628971	104.87 ug/L		98
69)	Bromobenzene	17.24	156	425714	106.19 ug/L		93
70)	n-Propylbenzene	17.51	91	2114087	107.55 ug/L		98
71)	2-Chlorotoluene	17.65	91	1126734	98.72 ug/L		95
72)	4-Chlorotoluene	17.75	91	1125554	103.70 ug/L		94
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	102.08 ug/L		95
74)	tert-Butylbenzene	18.31	119	1083175	99.41 ug/L		92
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	103.46 ug/L		95
76)	sec-Butylbenzene	18.61	105	1705621	103.42 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	699081	102.97 ug/L		98
78)	1,4-Dichlorobenzene	18.82	146	702424	109.61 ug/L		97
79)	p-Isopropyltoluene	18.86	119	1317395	107.06 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	538352	97.79 ug/L		99
81)	n-Butylbenzene	19.40	91	1266655	111.28 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	79.94 ug/L	#	78
83)	1,2,4-Trichlorobenzene	21.50	180	271631	93.12 ug/L		99
84)	Napthalene	21.83	128	441804	98.64 ug/L		99
85)	Hexachlorobutadiene	21.89	225	166042	67.42 ug/L		99
86)	1,2,3-Trichlorobenzene	22.08	180	218534	95.26 ug/L		97

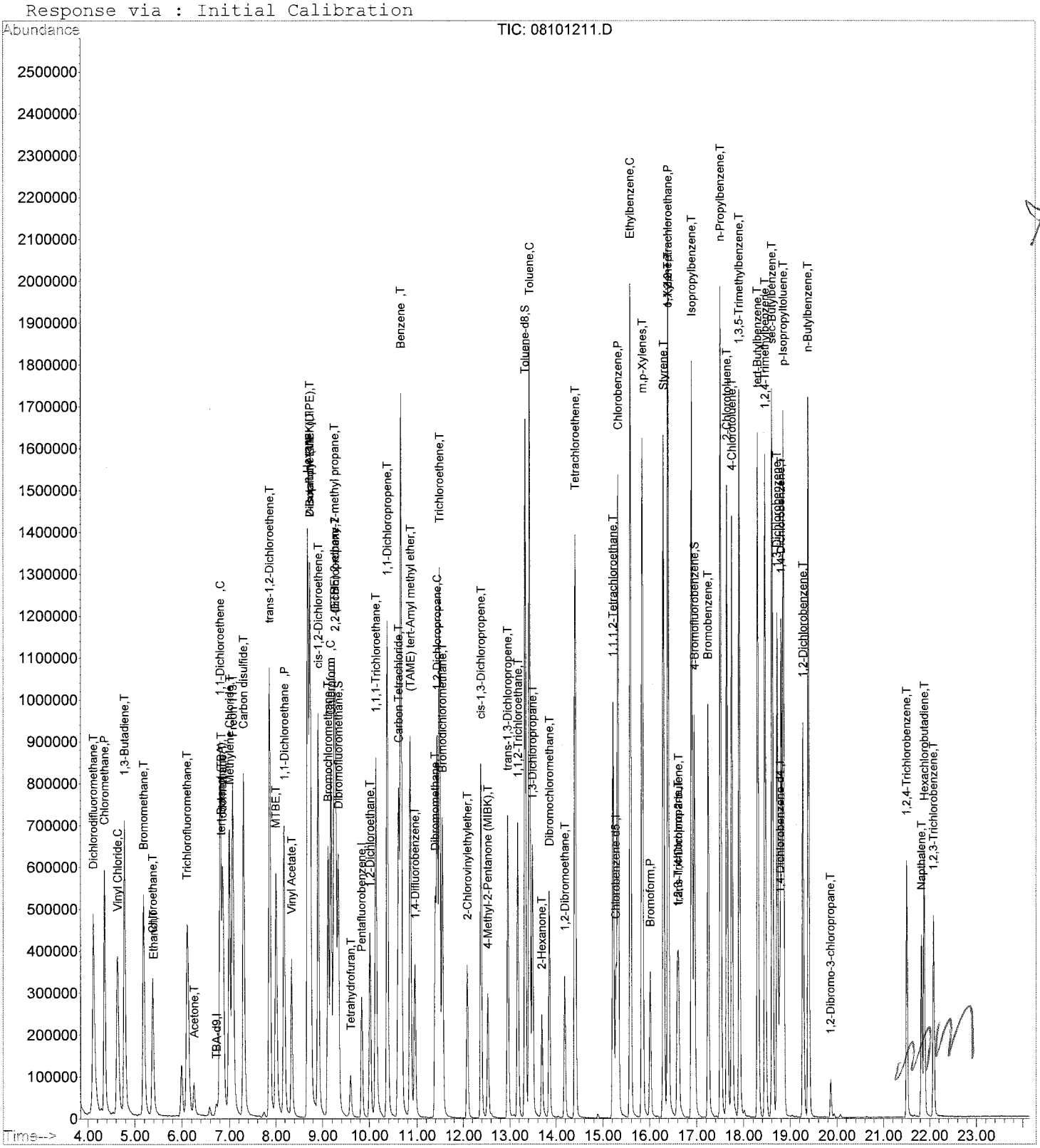
MNM

(#) = qualifier out of range (m) = manual integration
08101211.D 080712.M Fri Aug 10 12:46:44 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:45 2012 Quant Results File: 080712.RES

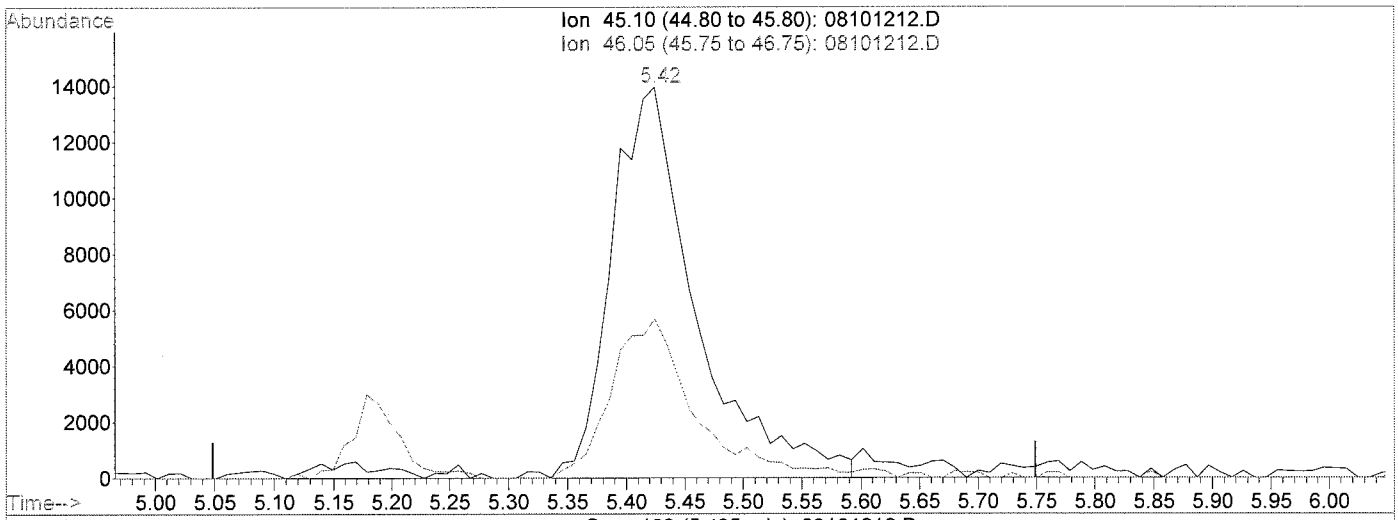
Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration

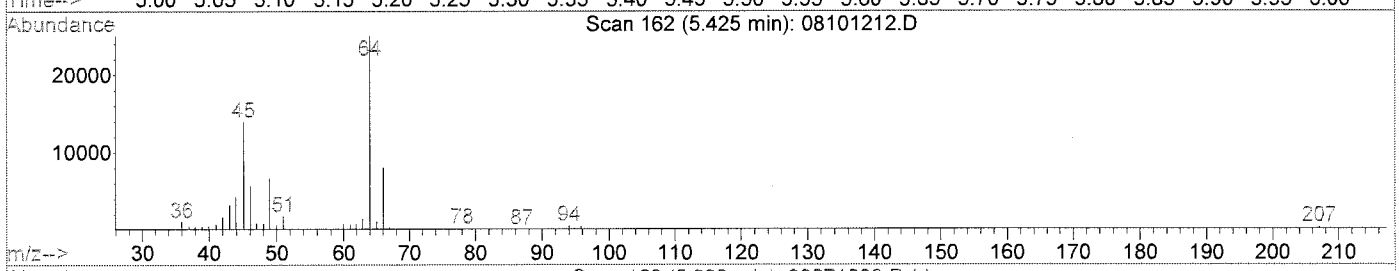


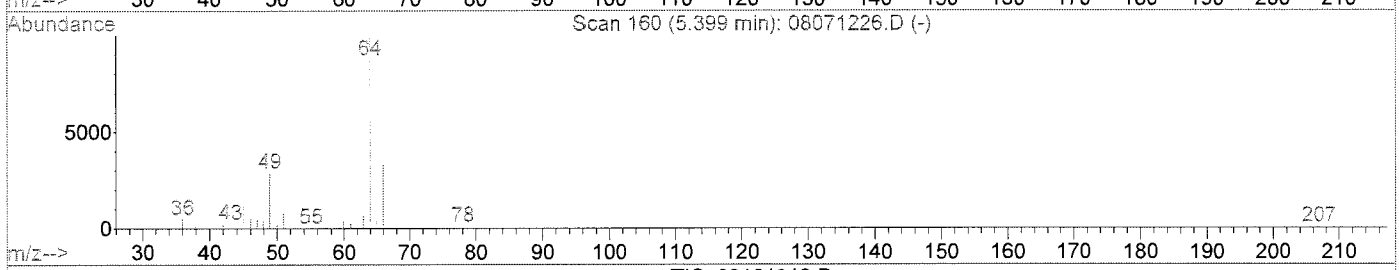
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2144.22ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	40.18
0.00	0.00	0.00
0.00	0.00	0.00

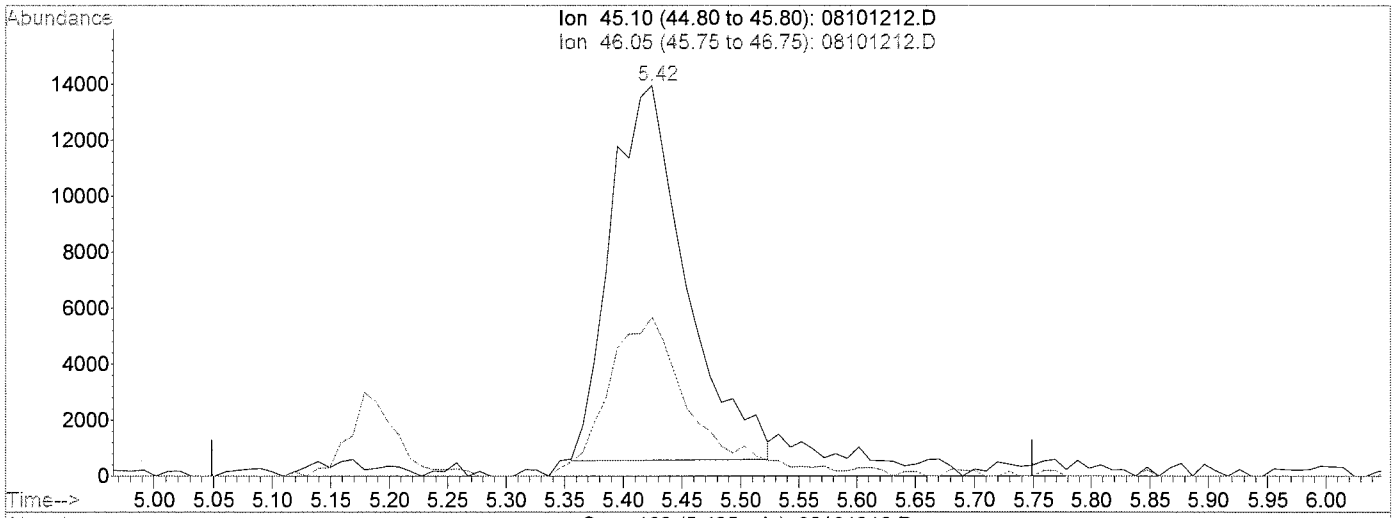
8/13/12

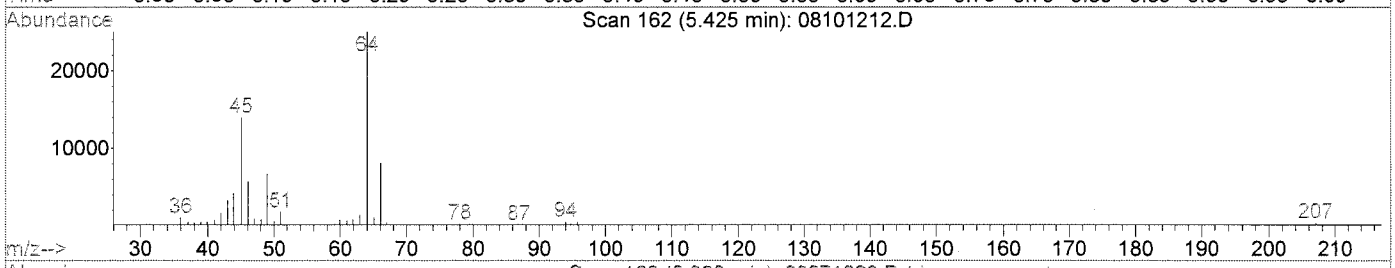
DL MM 8/13/12

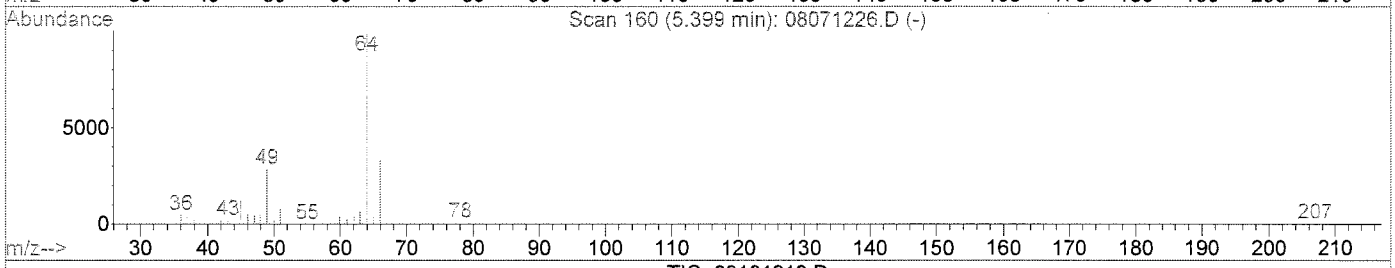
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 1816.70ug/L m

response 59372

Ion	Exp%	Act%
45.10	100	100
46.05	38.60	47.42
0.00	0.00	0.00
0.00	0.00	0.00

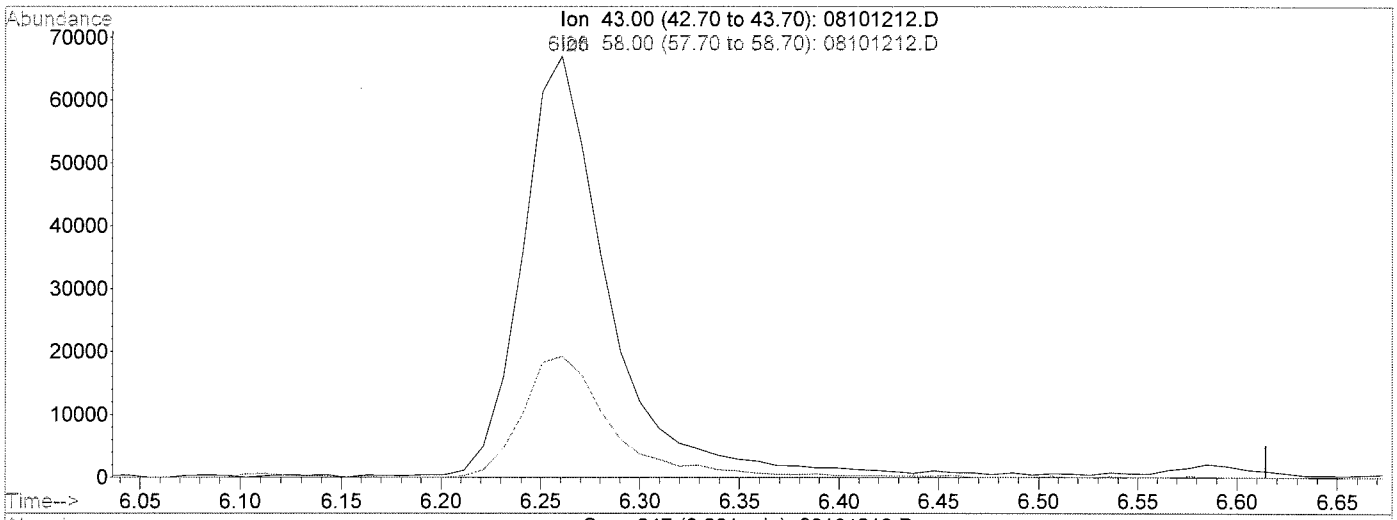
8/13/12

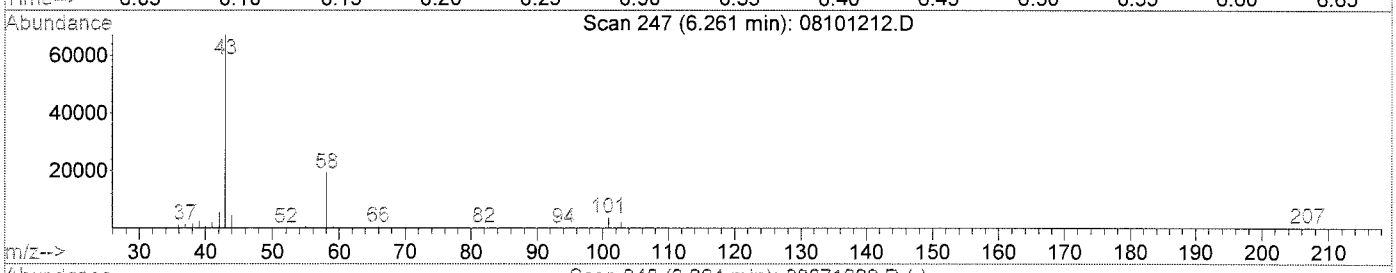
MM 8/13/12

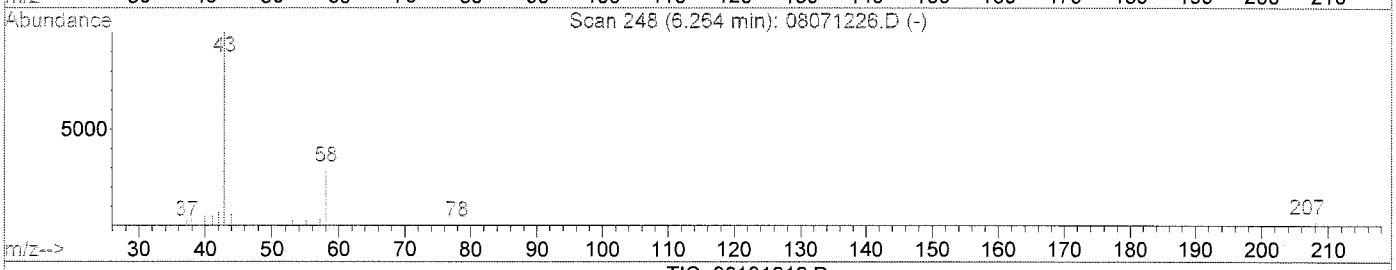
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 191.80ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	29.87#
0.00	0.00	0.00
0.00	0.00	0.00

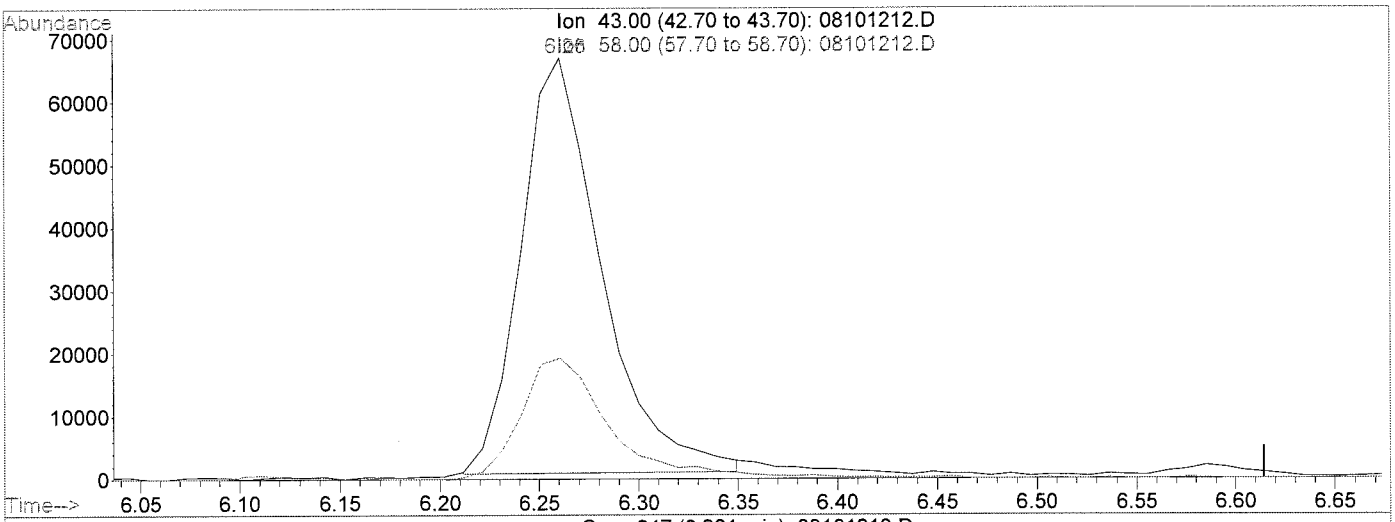
BL

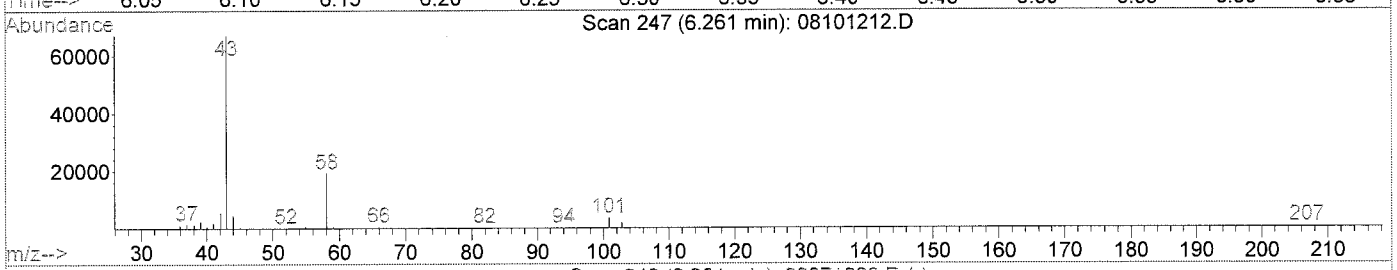
MM 8/13/12

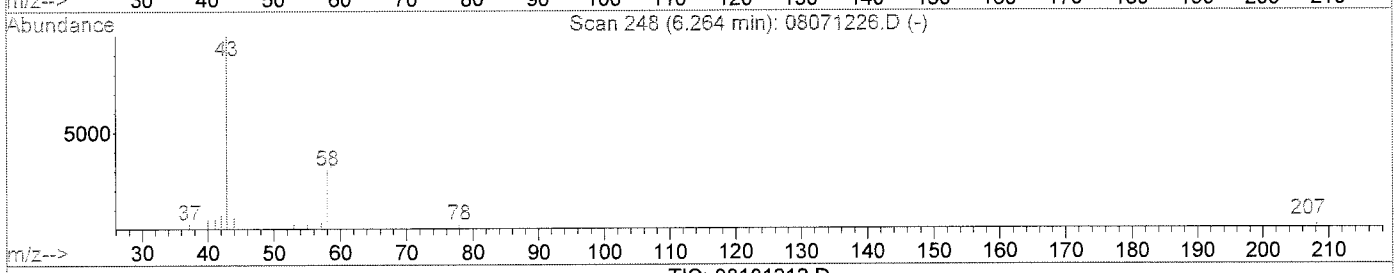
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(12) Acetone (T)

6.26min 175.08ug/L m

response 186273

Ion	Exp%	Act%
43.00	100	100
58.00	24.40	32.72#
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	232.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 930.60%	
48) Toluene-d8	13.33	98	2766585	213.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 855.28%	
62) 4-Bromofluorobenzene	16.96	95	772758	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	
Target Compounds					Qvalue
2) Ethanol	5.42	45	59372m	1816.70 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1088.44 ug/L	97
5) Dichlorodifluoromethane	4.12	85	1798928	194.53 ug/L	100
6) Chloromethane	4.35	50	1636489	171.54 ug/L	100
7) Vinyl Chloride	4.62	62	1314727	174.95 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	198.47 ug/L	91
9) Bromomethane	5.19	94	991158	204.62 ug/L	97
10) Chloroethane	5.38	64	798291	192.12 ug/L	97
11) Trichlorofluoromethane	6.11	101	1442227	181.32 ug/L	98
12) Acetone	6.26	43	186273m	175.08 ug/L	
13) Iodomethane	6.86	142	1691791	198.72 ug/L	94
14) 1,1-Dichloroethene	6.80	96	959183	205.33 ug/L #	75
15) Methylene Chloride	7.00	84	866879	186.08 ug/L	86
16) Freon 113	7.07	101	1005834	191.97 ug/L	99
17) Carbon disulfide	7.30	76	3351895	195.57 ug/L #	91
18) trans-1,2-Dichloroethene	7.86	96	1151435	227.70 ug/L	88
19) MTBE	8.00	73	1705610	207.77 ug/L	99
20) 1,1-Dichloroethane	8.18	63	1809927	209.75 ug/L	97
21) Vinyl Acetate	8.34	43	1413743	210.29 ug/L #	94
22) n-Hexane	8.69	86	285278	237.85 ug/L	76
23) 2-Butanone (MEK)	8.72	72	74546	247.88 ug/L #	32
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	211.74 ug/L	95
25) cis-1,2-Dichloroethene	8.92	96	1089239	242.53 ug/L	86
26) Bromochloromethane	9.12	128	469231	248.13 ug/L	86
27) Chloroform	9.18	83	1657554	221.61 ug/L #	94
28) 2,2-Dichloropropane	9.28	77	1146423	182.15 ug/L #	79
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	208.43 ug/L	95
31) Tetrahydrofuran	9.60	72	68814	229.05 ug/L #	76
32) 1,2-Dichloroethane	10.02	62	794737	181.92 ug/L	97
33) 1,1,1-Trichloroethane	10.15	97	1389872	214.91 ug/L	93
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	224.30 ug/L #	91
36) 1,1-Dichloropropene	10.38	75	1491816	201.91 ug/L	96
37) Carbon Tetrachloride	10.61	117	1253531	193.43 ug/L	98
38) Benzene	10.67	78	3652383	213.32 ug/L #	91
39) Dibromomethane	11.40	93	460678	222.61 ug/L	96
40) 1,2-Dichloropropane	11.43	63	868011	207.34 ug/L #	90

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Quant Method : C:\HPCHEM\1...\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	214.05 ug/L		95
42)	Bromodichloromethane	11.55	83	1076186	204.48 ug/L		96
43)	2-Chlorovinylethylether	12.09	63	356836	210.26 ug/L		96
44)	cis-1,3-Dichloropropene	12.39	75	1241936	227.77 ug/L	#	83
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	172.10 ug/L		95
46)	trans-1,3-Dichloropropene	12.96	75	974996	197.95 ug/L	#	84
47)	1,1,2-Trichloroethane	13.18	97	546786	226.55 ug/L	#	88
49)	Toluene	13.42	92	2055027	224.89 ug/L		96
51)	1,3-Dichloropropane	13.49	76	938228	211.31 ug/L		98
52)	2-Hexanone	13.69	43	386586	195.60 ug/L	#	89
53)	Dibromochloromethane	13.85	129	760108	235.83 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	233.17 ug/L		98
55)	Tetrachloroethene	14.41	164	884667	207.16 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	208.94 ug/L		96
57)	Chlorobenzene	15.33	112	2070815	226.78 ug/L		92
58)	Ethylbenzene	15.59	91	3553977	213.43 ug/L		94
59)	m,p-Xylenes	15.85	106	1442112	238.49 ug/L		88
60)	Styrene	16.30	104	1948462	246.56 ug/L	#	92
61)	o-Xylene	16.40	106	1266882	230.27 ug/L		90
64)	Bromoform	16.02	173	438702	176.77 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	213.16 ug/L		98
66)	1,2,3-Trichloropropane	16.60	110	133888	205.80 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	159.35 ug/L	#	71
68)	Isopropylbenzene	16.90	105	3024067	227.13 ug/L		96
69)	Bromobenzene	17.25	156	802086	233.39 ug/L		93
70)	n-Propylbenzene	17.51	91	3823645	226.92 ug/L		96
71)	2-Chlorotoluene	17.65	91	2041028	208.61 ug/L		95
72)	4-Chlorotoluene	17.76	91	2058362	221.24 ug/L		93
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	220.67 ug/L		94
74)	tert-Butylbenzene	18.31	119	1933954	207.06 ug/L		92
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	218.28 ug/L		93
76)	sec-Butylbenzene	18.62	105	3047825	215.58 ug/L		97
77)	1,3-Dichlorobenzene	18.72	146	1267811	217.85 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	1231960	224.27 ug/L		97
79)	p-Isopropyltoluene	18.86	119	2345916	222.41 ug/L		94
80)	1,2-Dichlorobenzene	19.28	146	944274	200.10 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	222.74 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	153.64 ug/L	#	71
83)	1,2,4-Trichlorobenzene	21.51	180	455405	182.12 ug/L		99
84)	Napthalene	21.83	128	697402	181.65 ug/L		100
85)	Hexachlorobutadiene	21.89	225	262810	Below Cal		100
86)	1,2,3-Trichlorobenzene	22.09	180	329008	167.36 ug/L		97

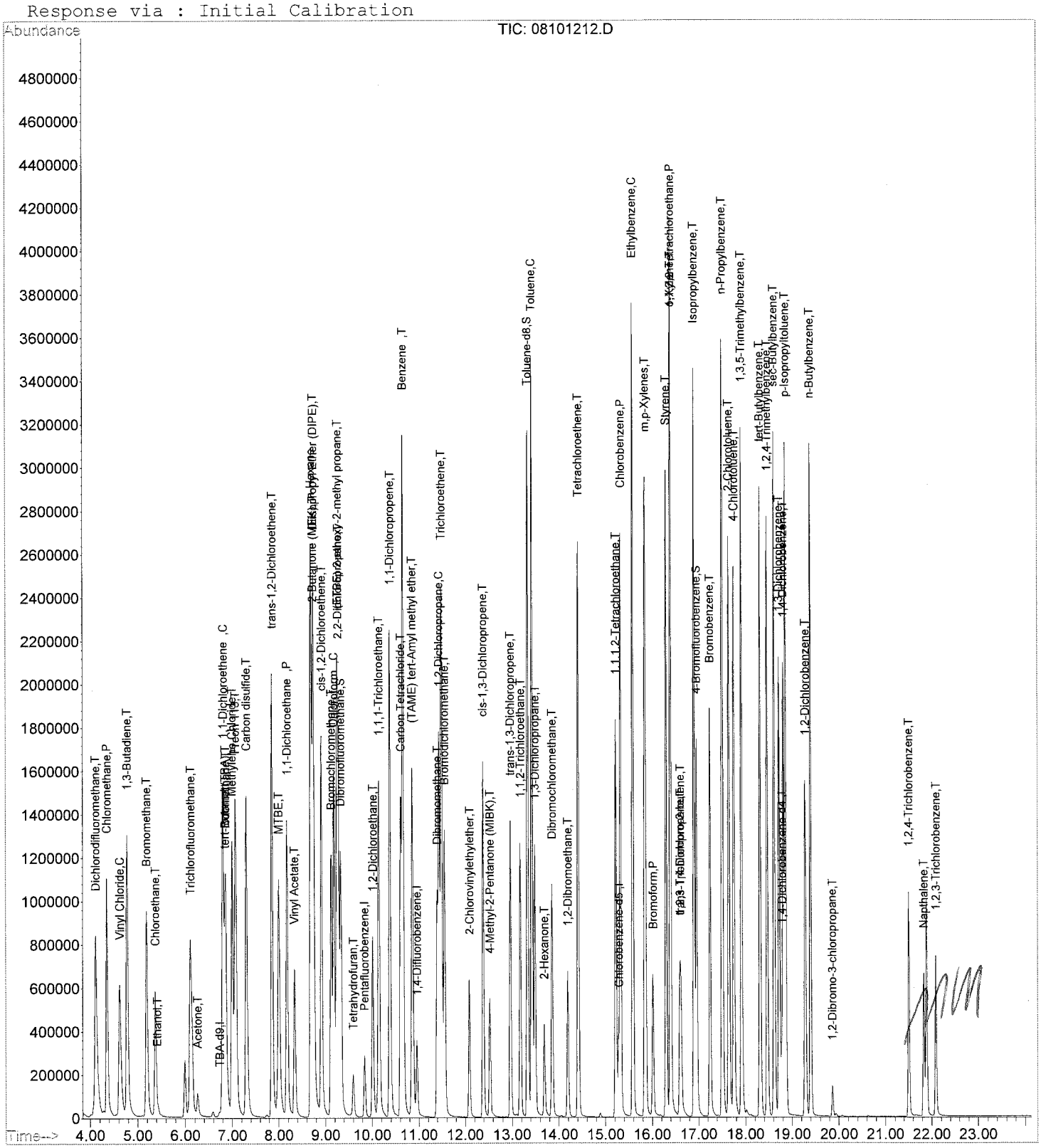
MNM

(#) = qualifier out of range (m) = manual integration
08101212.D 080712.M Fri Aug 10 12:50:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 12:49 2012 Quant Results File: 080712.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\080712.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Wed Aug 08 05:22:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54943	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	307062	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	413904	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	292809	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	125274	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	131913	24.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.24%	
48) Toluene-d8	13.33	98	397025	24.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.16%	
62) 4-Bromofluorobenzene	16.95	95	111862	24.72 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.88%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	543	18.33 ug/L #	21
9) Bromomethane	5.29	94	868	0.14 ug/L #	2
12) Acetone	6.25	43	1787	1.38 ug/L #	52
28) 2,2-Dichloropropane	9.30	77	770	0.10 ug/L #	66
34) (TAME) tert-Amyl methyl et	10.95	73	3963	0.36 ug/L #	27
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	393	0.13 ug/L #	37
83) 1,2,4-Trichlorobenzene	21.50	180	388	0.11 ug/L #	61
84) Napthalene	21.84	128	1664	0.29 ug/L #	82
86) 1,2,3-Trichlorobenzene	22.07	180	380	Below Cal #	77

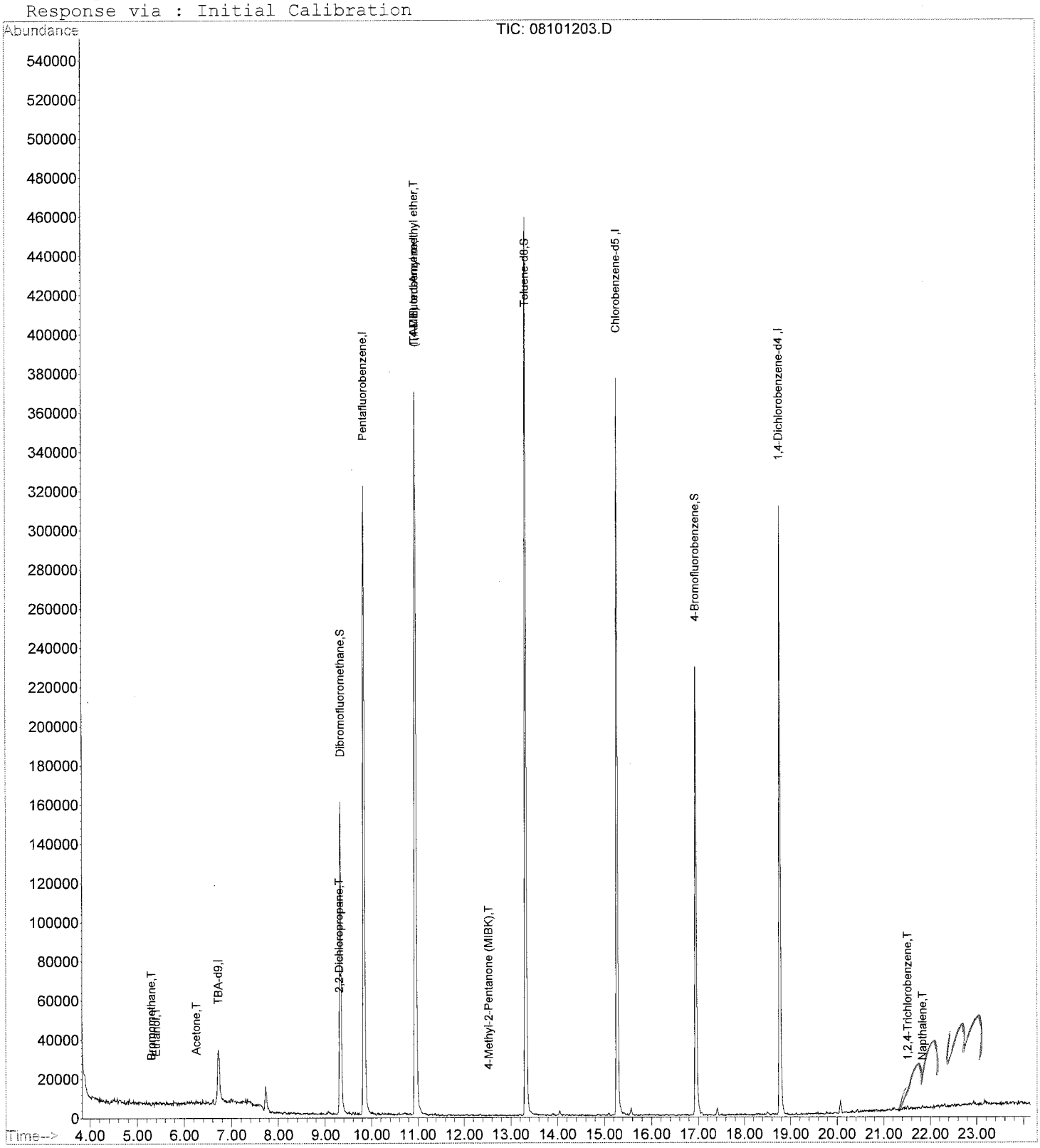
MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101203.D 081012.M Mon Aug 13 05:12:42 2012

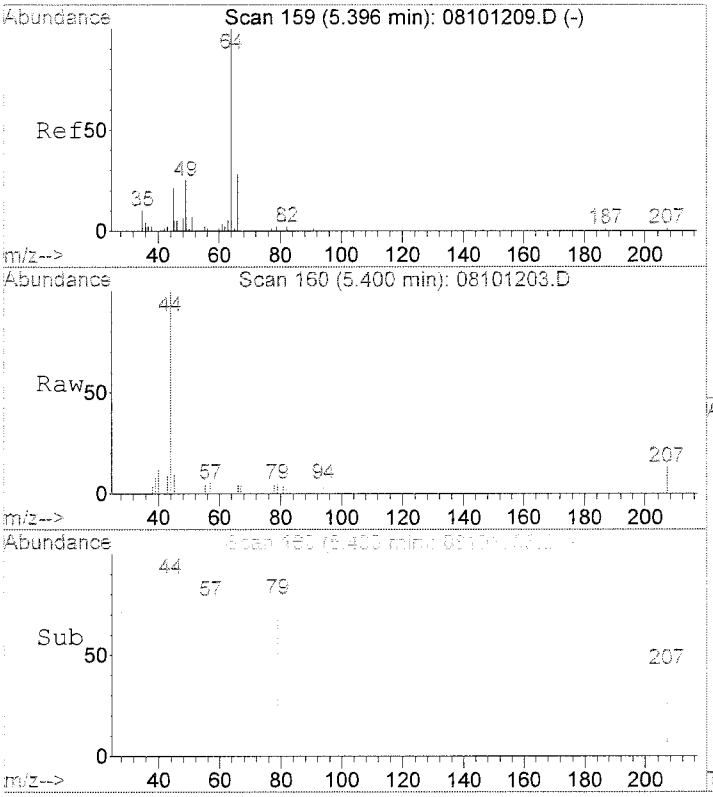
Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101203.D Vial: 3
Acq On : 10 Aug 2012 7:30 am Operator: MNM
Sample : BLANK Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:12 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



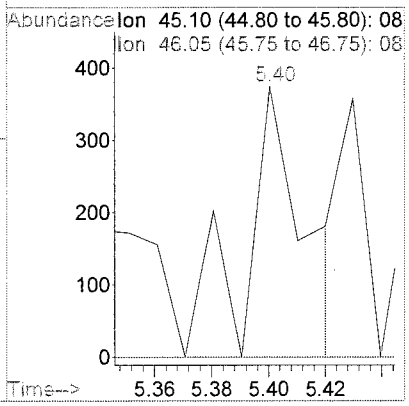
08101203.D 081012.M Mon Aug 13 05:12:43 2012

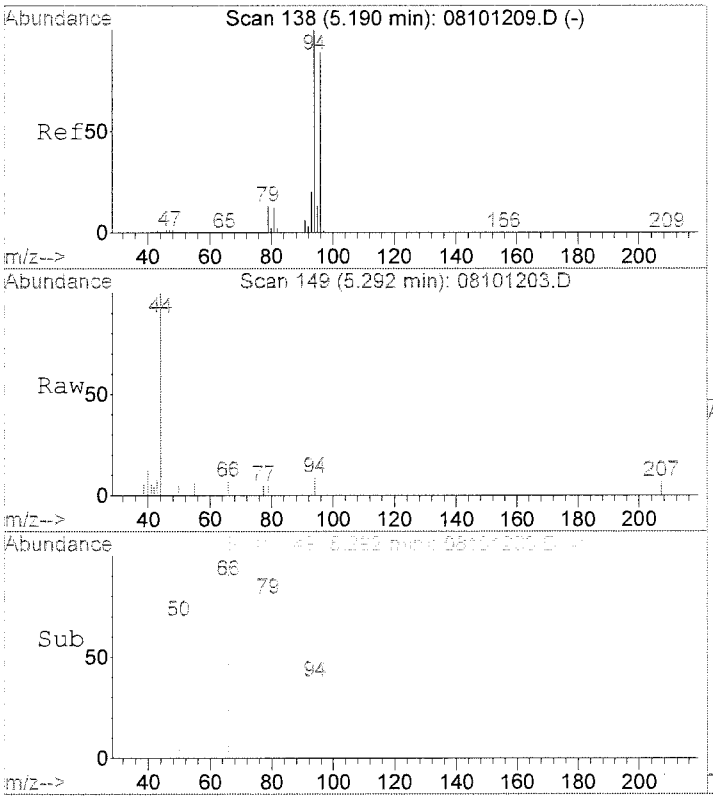


#2
Ethanol
Concen: 18.33 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 45 Resp: 543

Ion	Ratio	Lower	Upper
45	100		
46	0.0	39.9	79.9#

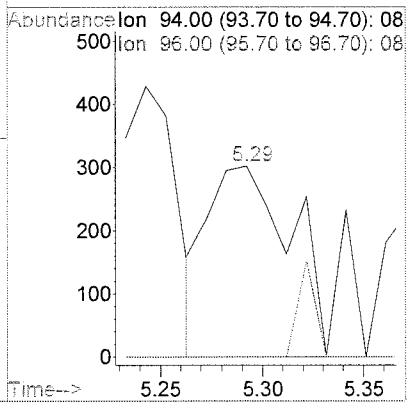


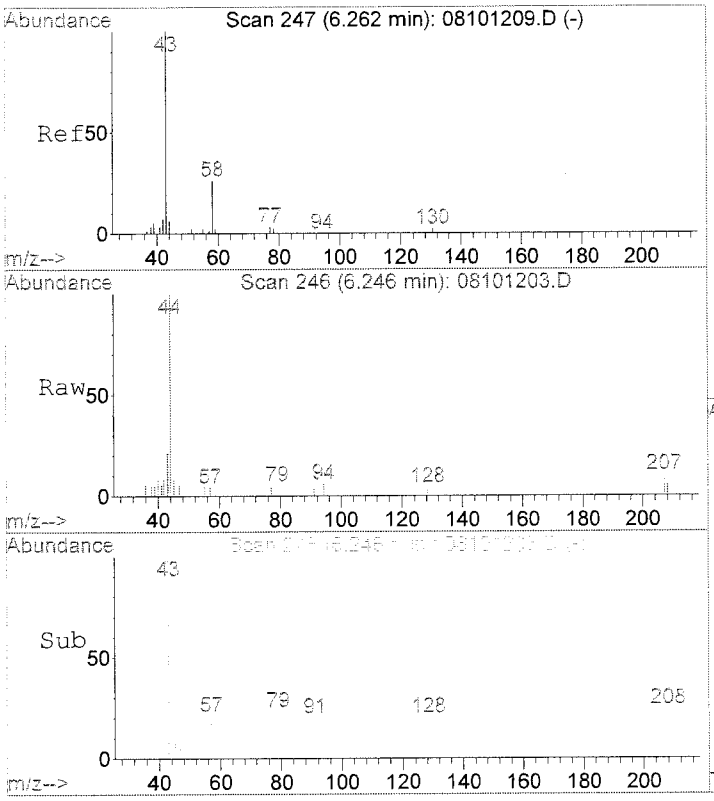


#9
Bromomethane
Concen: 0.14 ug/L
RT: 5.29 min Scan# 149
Delta R.T. 0.10 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 94 Resp: 868

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#

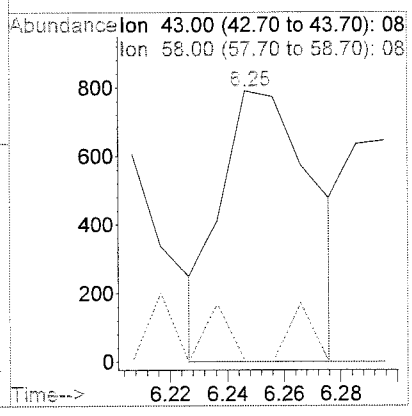


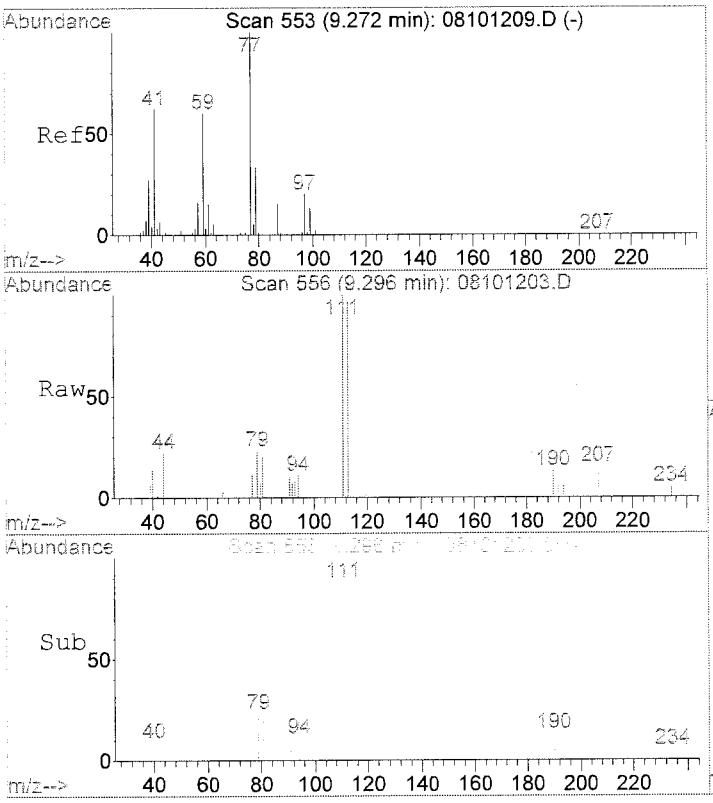


#12
Acetone
Concen: 1.38 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 1787

Ion	Ratio	Lower	Upper
43	100		
58	5.7	25.9	38.9#

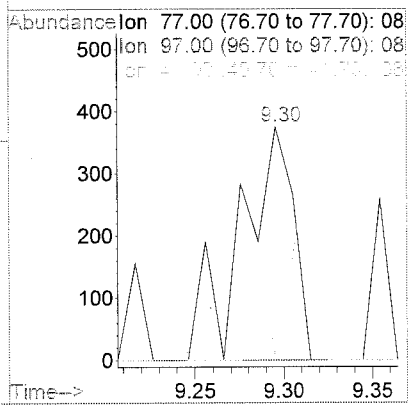




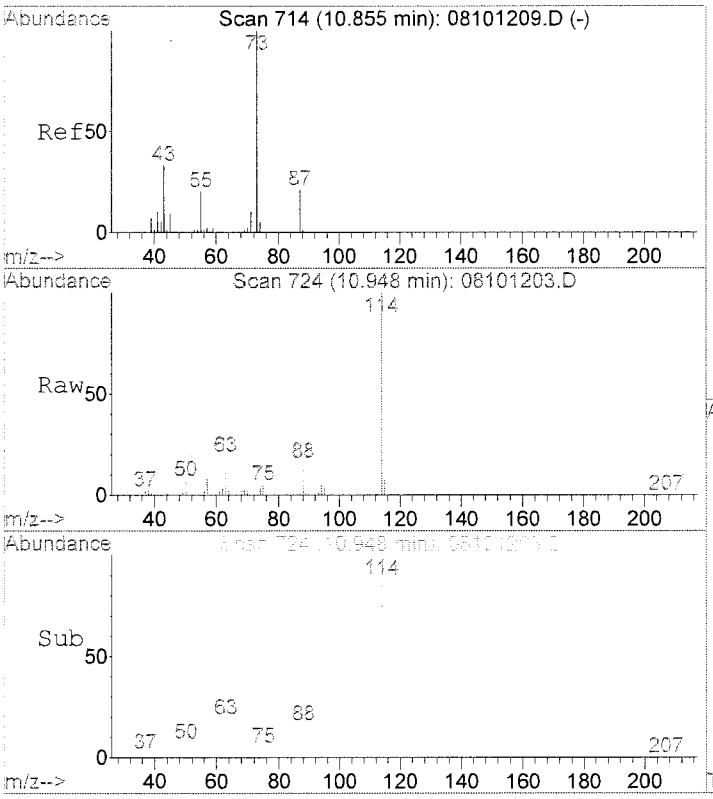
#28
2,2-Dichloropropane
Concen: 0.10 ug/L
RT: 9.30 min Scan# 556
Delta R.T. 0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 77 Resp: 770

Ion	Ratio	Lower	Upper
77	100		
97	0.0	16.9	25.3#
41	52.9	64.1	96.1#



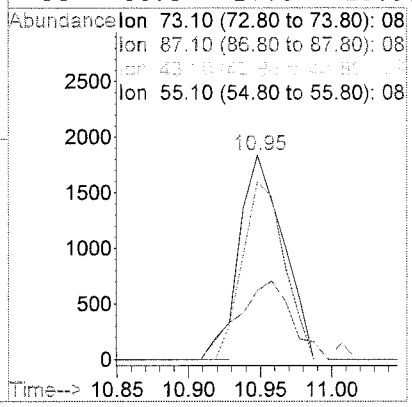
MM

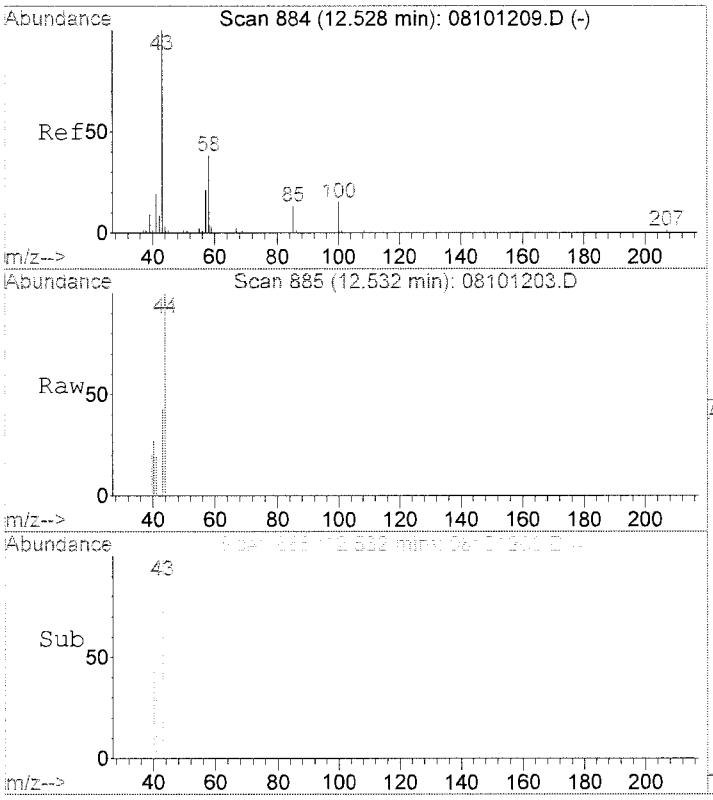


#34
(TAME) tert-Amyl methyl ether
Concen: 0.36 ug/L
RT: 10.95 min Scan# 724
Delta R.T. 0.09 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 73 Resp: 3963

Ion	Ratio	Lower	Upper
73	100		
87	82.2	16.4	24.6#
43	5.7	27.0	40.4#
55	46.5	17.3	25.9#

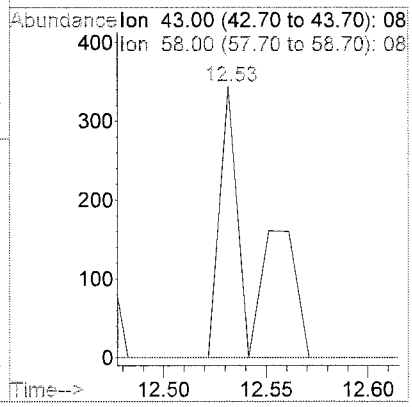


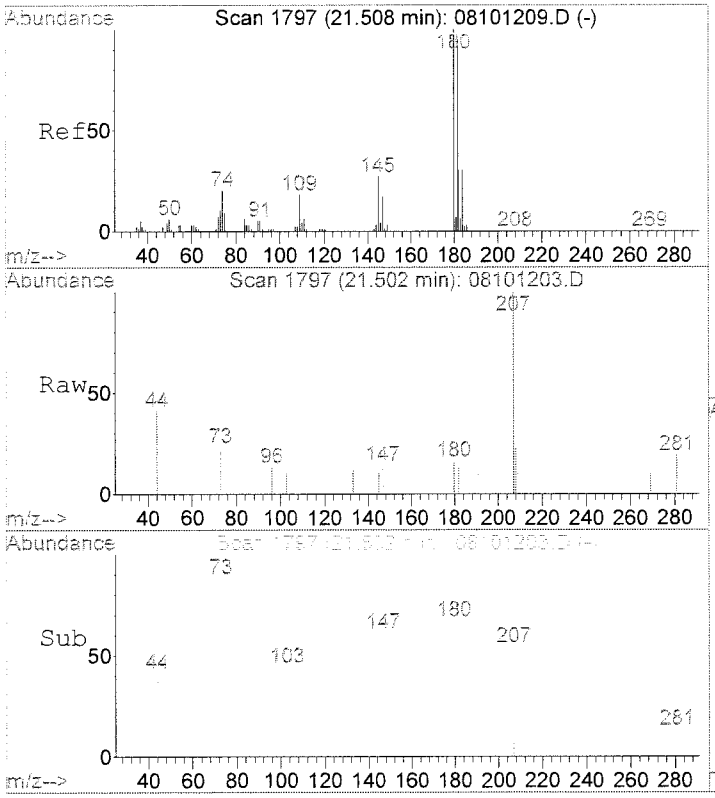


#45
4-Methyl-2-Pentanone (MIBK)
Concen: 0.13 ug/L
RT: 12.53 min Scan# 885
Delta R.T. 0.00 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion: 43 Resp: 393

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.4#

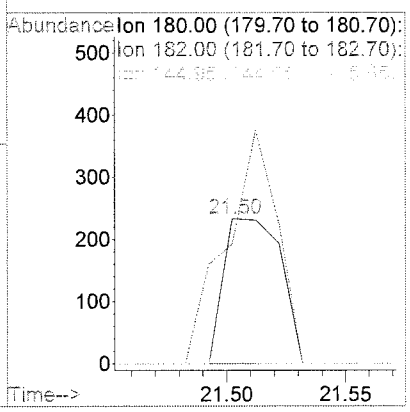


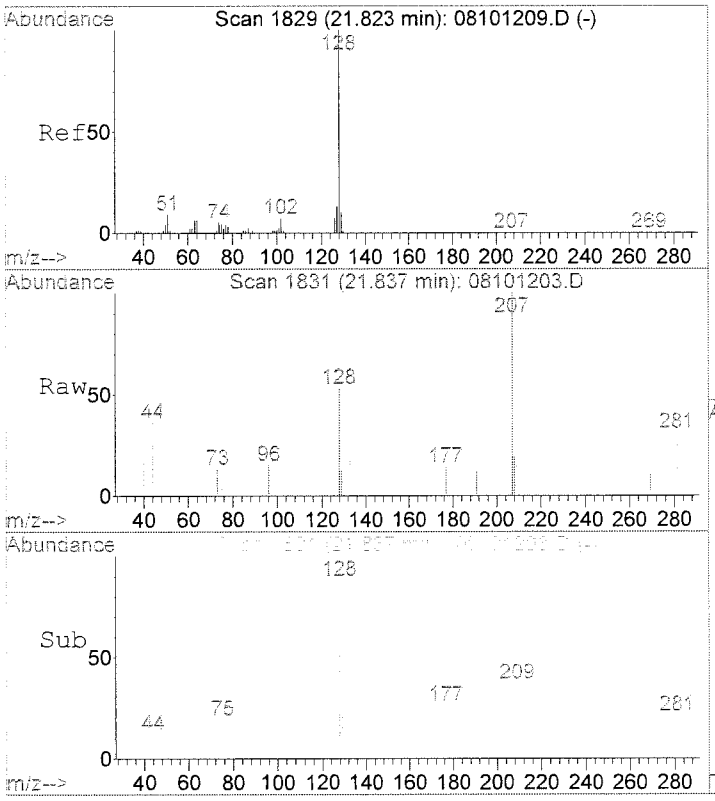


#83
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 21.50 min Scan# 1797
Delta R.T. -0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 388

Ion	Ratio	Lower	Upper
180	100		
182	144.8	77.9	116.9#
145	25.5	22.8	34.2

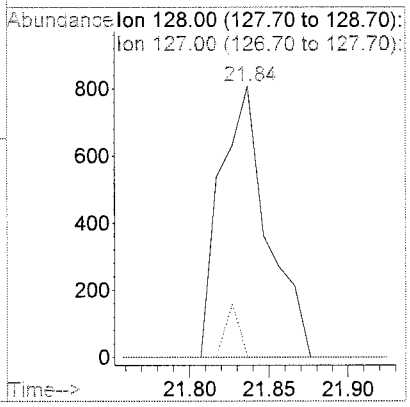


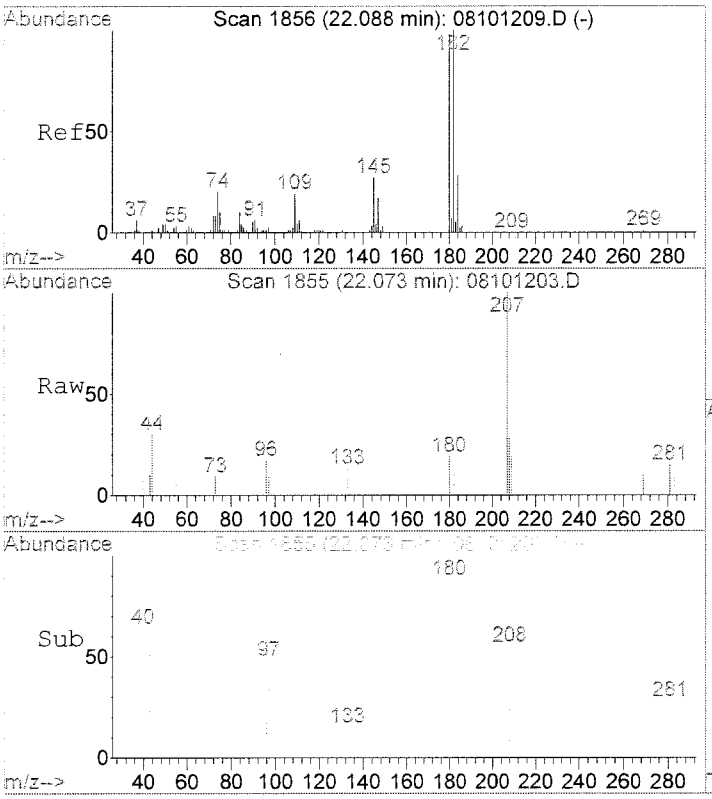


#84
Napthalene
Concen: 0.29 ug/L
RT: 21.84 min Scan# 1831
Delta R.T. 0.01 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:128 Resp: 1664

Ion	Ratio	Lower	Upper
128	100		
127	5.6	10.2	15.4#

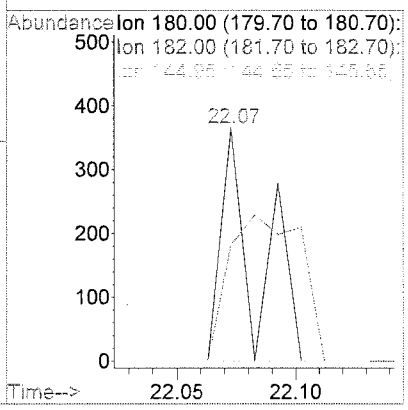




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.07 min Scan# 1855
Delta R.T. -0.02 min
Lab File: 08101203.D
Acq: 10 Aug 2012 7:30 am

Tgt Ion:180 Resp: 380

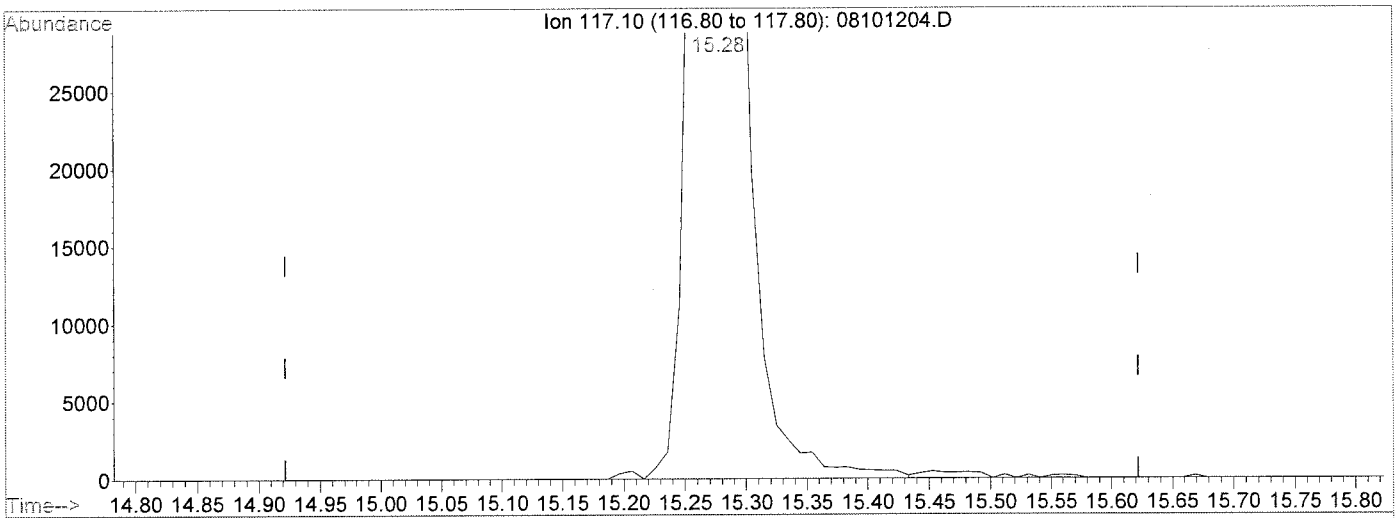
Ion	Ratio	Lower	Upper
180	100		
182	127.1	78.9	118.3#
145	28.2	23.2	34.8

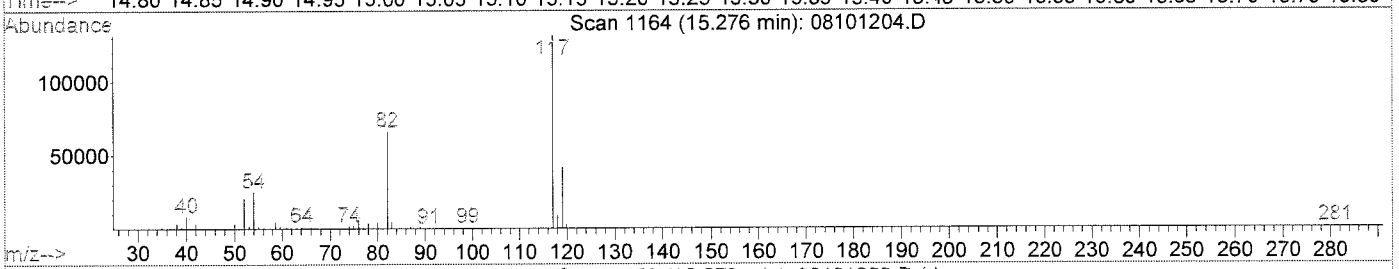


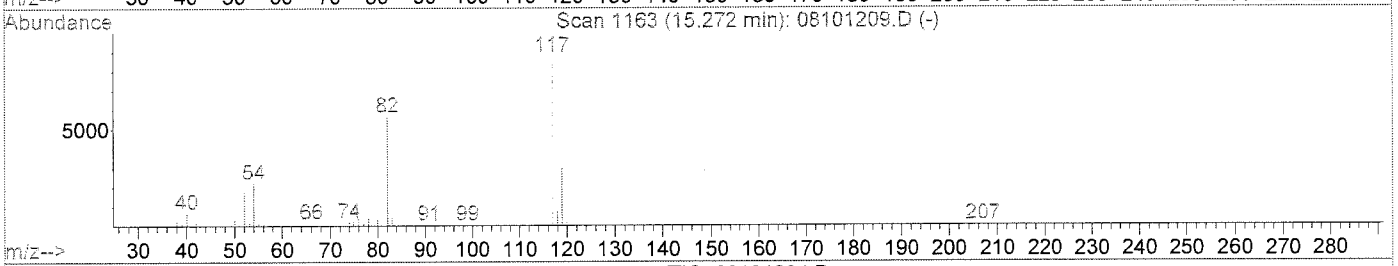
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:13 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 285754

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

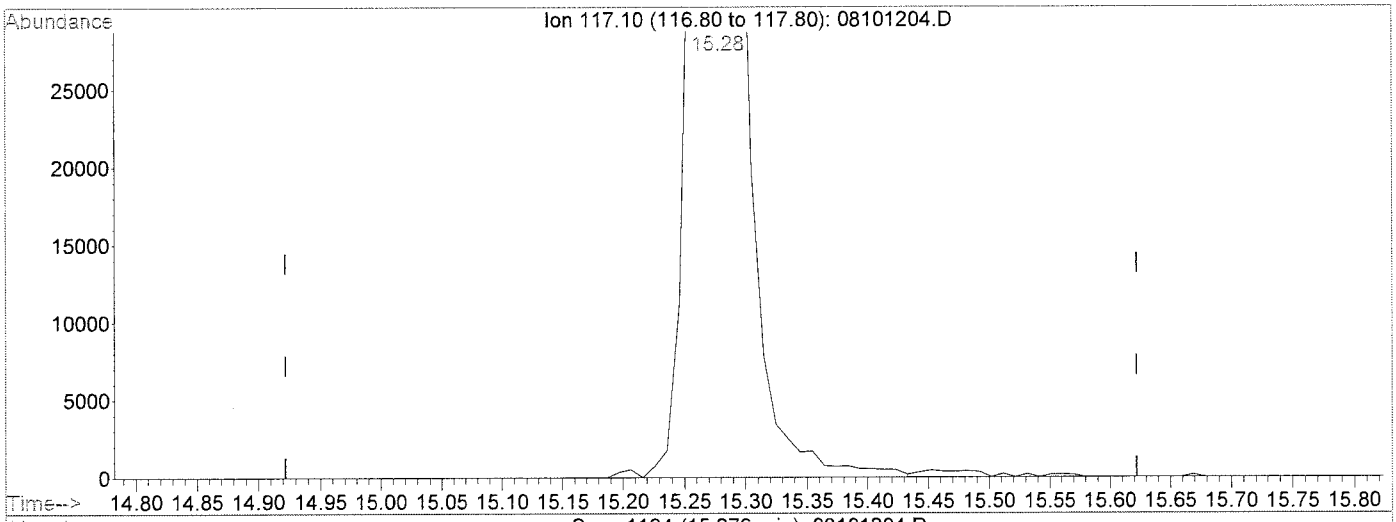
8/13/12

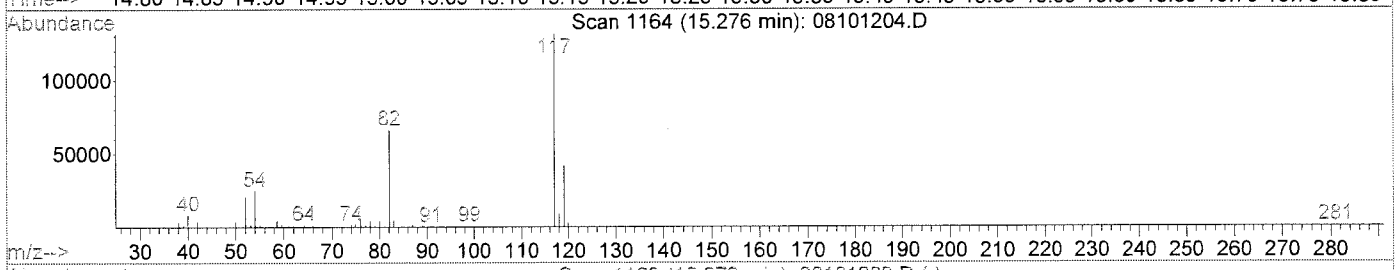
B
CE
MNM 8/13/12

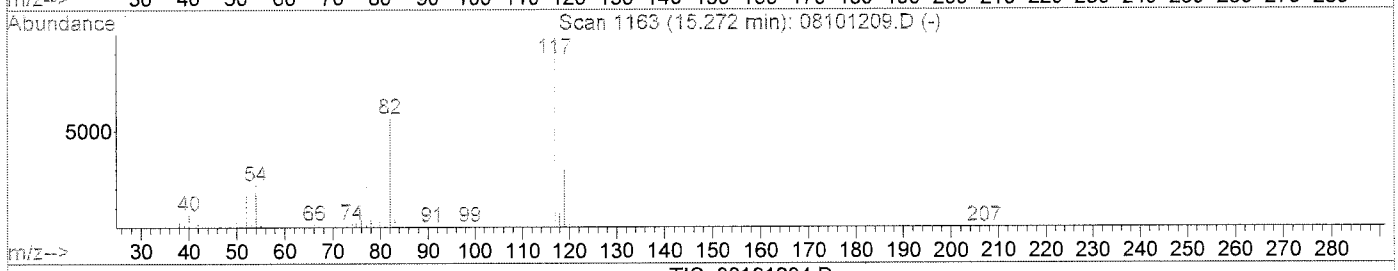
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:14 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101204.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 285234

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	53555	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	290565	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	396078	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	285234m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	122187	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	2366	0.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 1.88%	
48) Toluene-d8	13.33	98	8308	0.53 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.12%	
62) 4-Bromofluorobenzene	16.96	95	2270	0.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.04%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.13	85	5617	0.53 ug/L	99
6) Chloromethane	4.35	50	5533	0.53 ug/L	97
7) Vinyl Chloride	4.63	62	5041	0.53 ug/L	98
8) 1,3-Butadiene	0.00	54	0	N.D. d	
9) Bromomethane	0.00	94	0	N.D. d	
10) Chloroethane	5.38	64	2145	0.46 ug/L #	88
11) Trichlorofluoromethane	6.11	101	4136	0.49 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	4757	0.48 ug/L	95
14) 1,1-Dichloroethene	6.81	96	3218	0.55 ug/L	95
15) Methylene Chloride	6.99	84	3880	0.75 ug/L #	83
16) Freon 113	7.08	101	3192	0.53 ug/L	97
17) Carbon disulfide	7.30	76	9505	0.50 ug/L #	17
18) trans-1,2-Dichloroethene	7.86	96	3858	0.57 ug/L #	80
19) MTBE	8.01	73	4605	0.48 ug/L	98
20) 1,1-Dichloroethane	8.18	63	5100	0.48 ug/L #	94
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	758	0.46 ug/L #	59
23) 2-Butanone (MEK)	0.00	72	0	N.D.	
24) Diisopropyl Ether (DIPE)	8.73	45	8756	0.49 ug/L #	90
25) cis-1,2-Dichloroethene	8.91	96	3145	0.51 ug/L	86
26) Bromochloromethane	9.13	128	1212	0.50 ug/L	85
27) Chloroform	9.17	83	4473	0.49 ug/L #	91
28) 2,2-Dichloropropane	0.00	77	0	N.D. d	
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	6627	0.52 ug/L	98
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	1999	0.45 ug/L #	93
33) 1,1,1-Trichloroethane	10.14	97	3906	0.51 ug/L	92
34) (TAME) tert-Amyl methyl et	10.86	73	5757	0.56 ug/L	95
36) 1,1-Dichloropropene	10.37	75	4256	0.50 ug/L #	83
37) Carbon Tetrachloride	10.60	117	3505	0.53 ug/L #	97
38) Benzene	10.66	78	10648	0.53 ug/L	98
39) Dibromomethane	11.40	93	1079	0.45 ug/L #	89
40) 1,2-Dichloropropane	11.43	63	2436	0.51 ug/L #	79

(#) = qualifier out of range (m) = manual integration

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	2807	0.50 ug/L	97
42)	Bromodichloromethane	11.55	83	2375	0.43 ug/L #	87
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	2989	0.46 ug/L	90
45)	4-Methyl-2-Pentanone (MIBK	0.00	43	0	N.D. d	
46)	trans-1,3-Dichloropropene	12.95	75	2357	0.48 ug/L	95
47)	1,1,2-Trichloroethane	13.17	97	939	0.34 ug/L #	82
49)	Toluene	13.43	92	5962	0.52 ug/L #	97
51)	1,3-Dichloropropane	13.49	76	2084	0.41 ug/L #	86
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.85	129	1416	0.39 ug/L	91
54)	1,2-Dibromoethane	14.18	107	1351	0.44 ug/L	95
55)	Tetrachloroethene	14.41	164	2667	0.53 ug/L	97
56)	1,1,1,2-Tetrachloroethane	15.23	131	2114	0.53 ug/L #	1
57)	Chlorobenzene	15.32	112	5746	0.49 ug/L	98
58)	Ethylbenzene	15.58	91	10303	0.50 ug/L	98
59)	m,p-Xylenes	15.84	106	3739	0.48 ug/L	82
60)	Styrene	16.30	104	5068	0.48 ug/L	95
61)	o-Xylene	16.40	106	3948	0.55 ug/L #	94
64)	Bromoform	16.01	173	894	0.43 ug/L	86
65)	1,1,2,2-Tetrachloroethane	16.40	83	1667	0.51 ug/L #	89
66)	1,2,3-Trichloropropane	0.00	110	0	N.D. d	
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	9688	0.53 ug/L	95
69)	Bromobenzene	17.24	156	2141	0.48 ug/L	99
70)	n-Propylbenzene	17.51	91	12373	0.53 ug/L	91
71)	2-Chlorotoluene	17.65	91	6496	0.52 ug/L	94
72)	4-Chlorotoluene	17.75	91	6322	0.52 ug/L	94
73)	1,3,5-Trimethylbenzene	17.91	105	7334	0.52 ug/L	100
74)	tert-Butylbenzene	18.31	119	6960	0.55 ug/L #	95
75)	1,2,4-Trimethylbenzene	18.46	105	7004	0.52 ug/L	96
76)	sec-Butylbenzene	18.61	105	11286	0.55 ug/L	92
77)	1,3-Dichlorobenzene	18.72	146	4471	0.55 ug/L	99
78)	1,4-Dichlorobenzene	18.81	146	4553	0.57 ug/L #	92
79)	p-Isopropyltoluene	18.86	119	7691	0.50 ug/L	91
80)	1,2-Dichlorobenzene	19.28	146	3801	0.58 ug/L	96
81)	n-Butylbenzene	19.40	91	7498	0.51 ug/L	98
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.50	180	2039	0.58 ug/L #	87
84)	Napthalene	21.83	128	3246	0.57 ug/L #	75
85)	Hexachlorobutadiene	21.89	225	1870	0.40 ug/L #	83
86)	1,2,3-Trichlorobenzene	22.09	180	1876	0.49 ug/L #	80

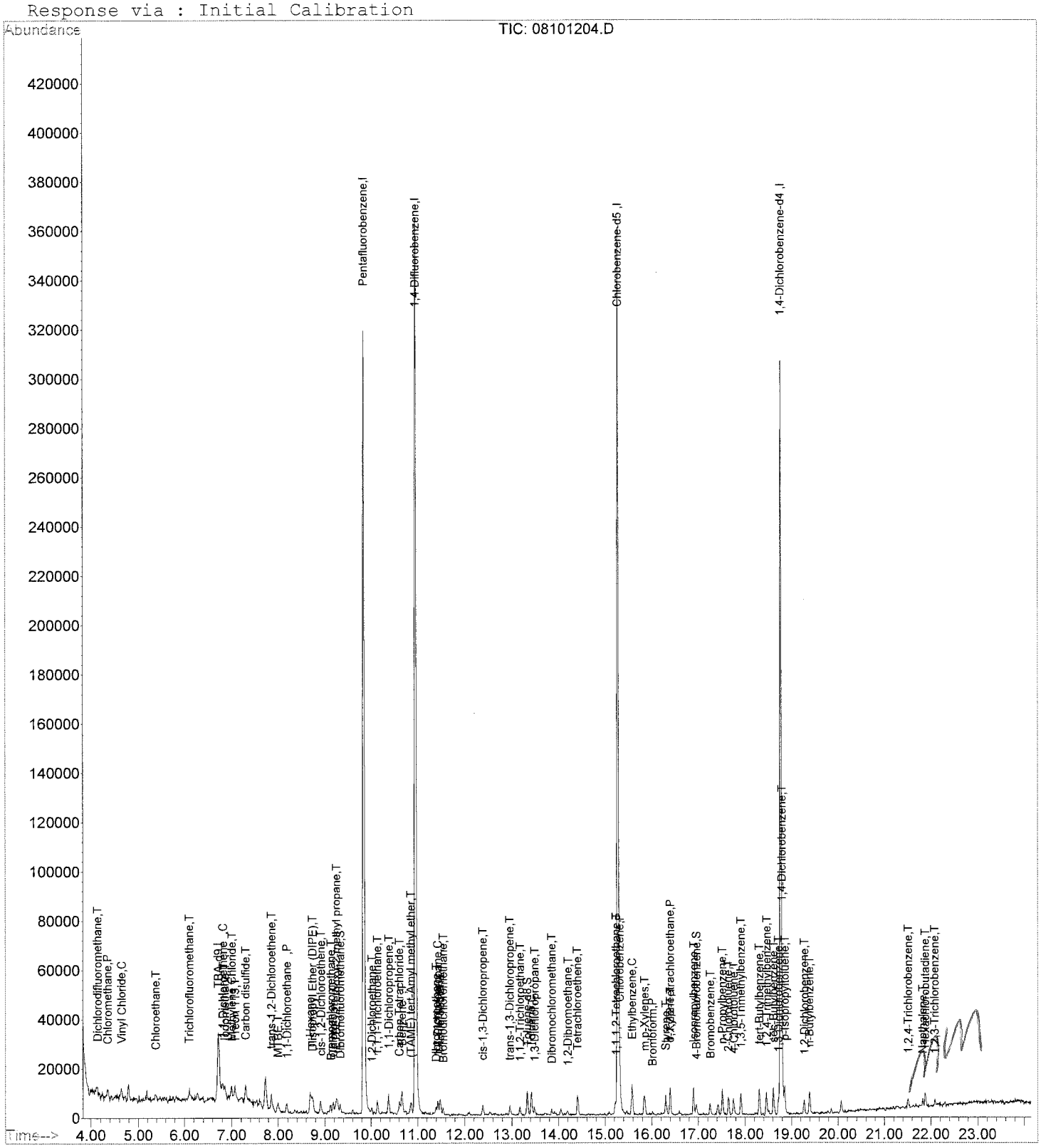
MM

(#) = qualifier out of range (m) = manual integration
08101204.D 081012.M Mon Aug 13 05:15:56 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D Vial: 4
Acq On : 10 Aug 2012 8:03 am Operator: MNM
Sample : 0.5 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:15 2012 Quant Results File: 081012.RES

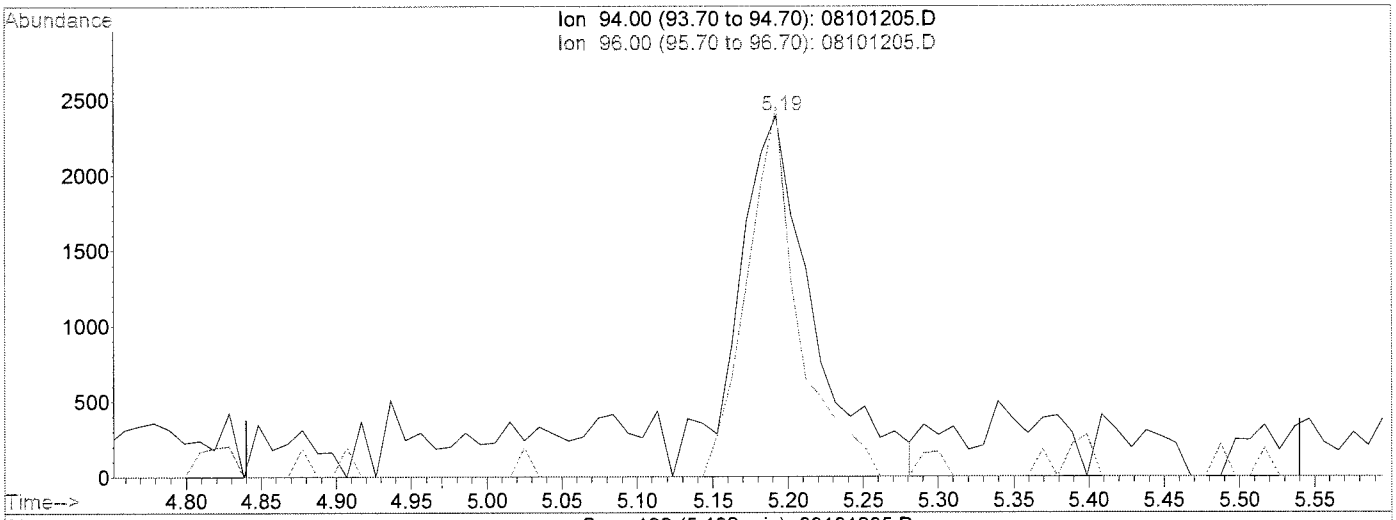
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

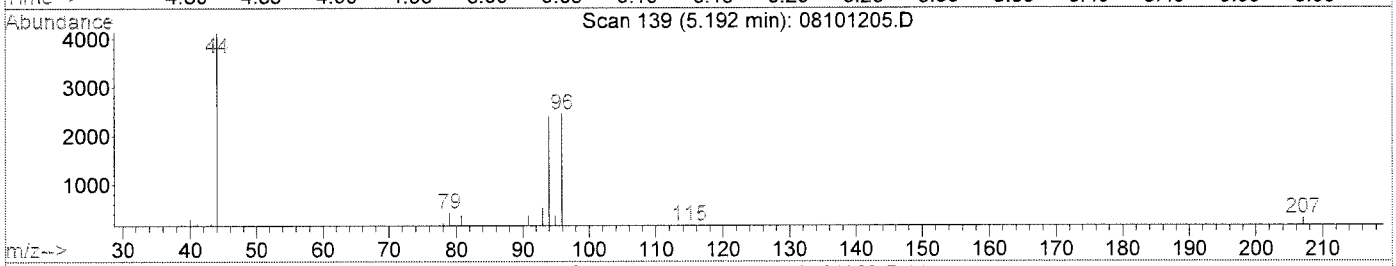


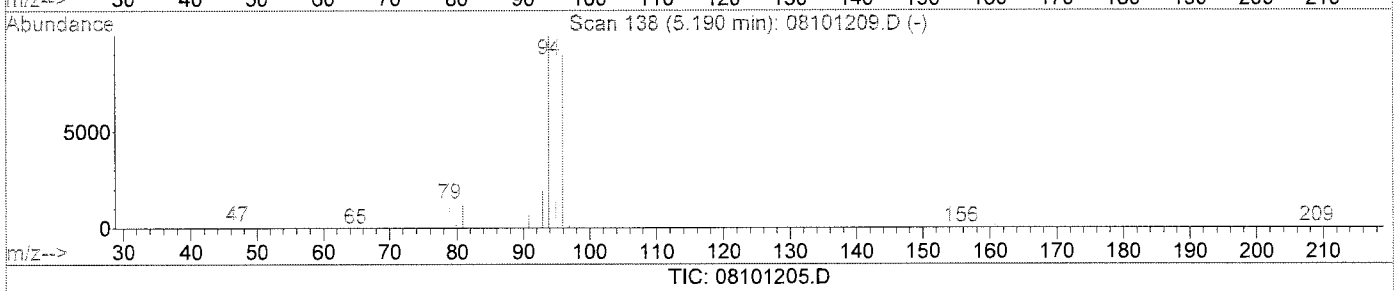
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(9) Bromomethane (T)

5.19min 1.46ug/L

response 8343

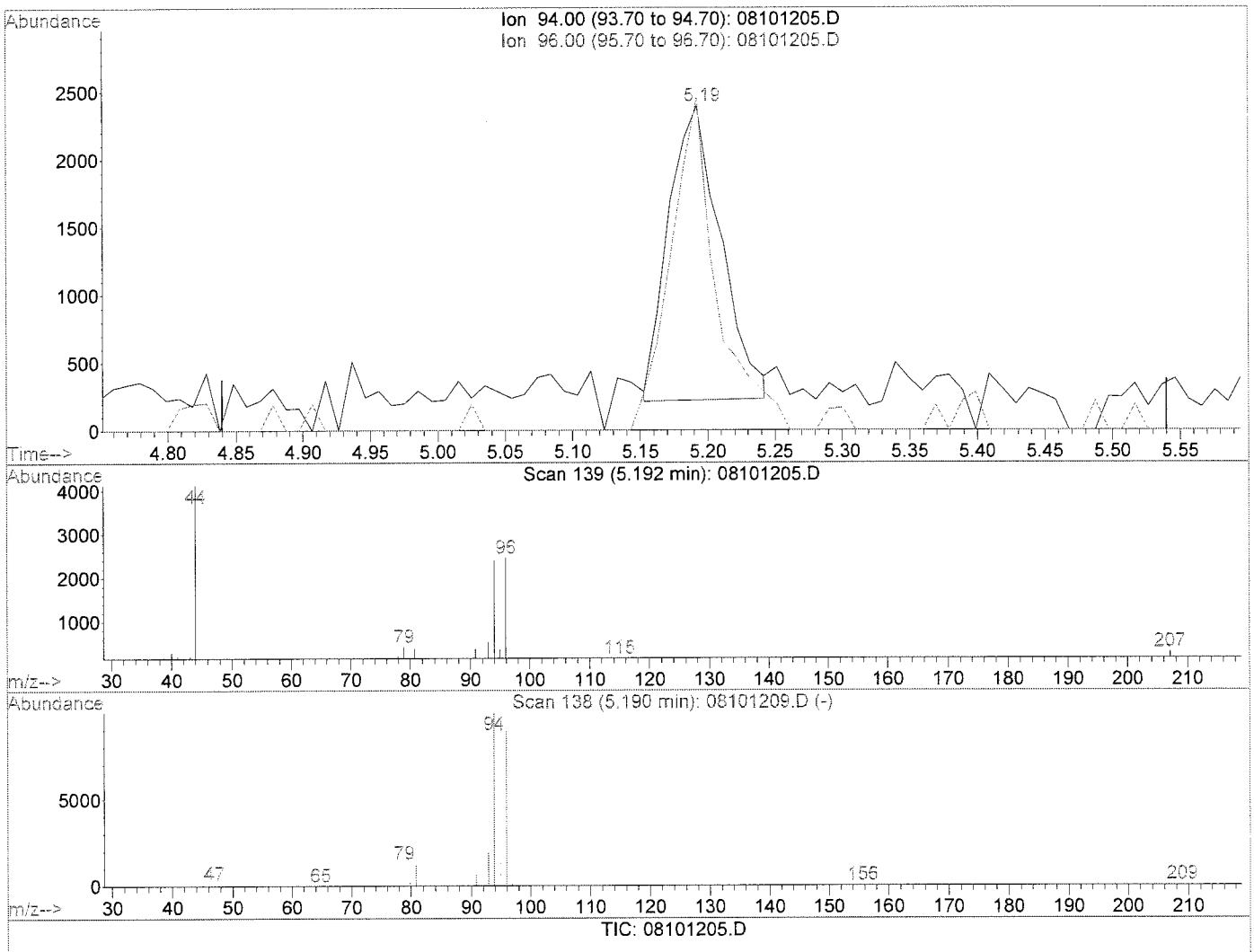
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	70.25#
0.00	0.00	0.00
0.00	0.00	0.00

B 8/13/12
BL
MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(9) Bromomethane (T)

5.19min 1.02ug/L m

response 5828

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	100.57
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

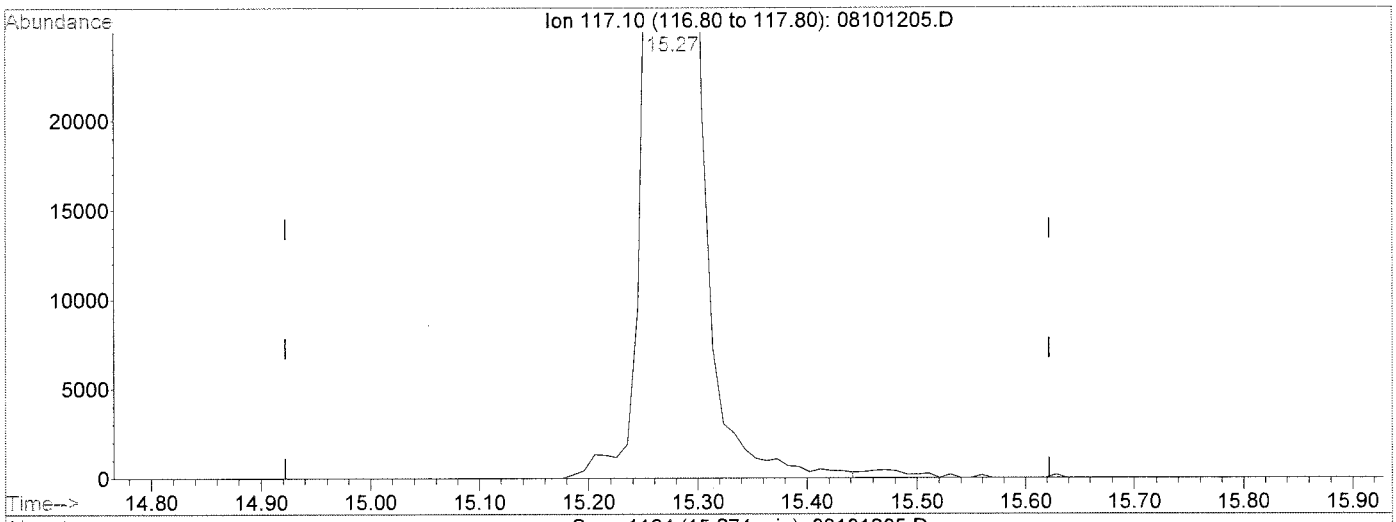
A

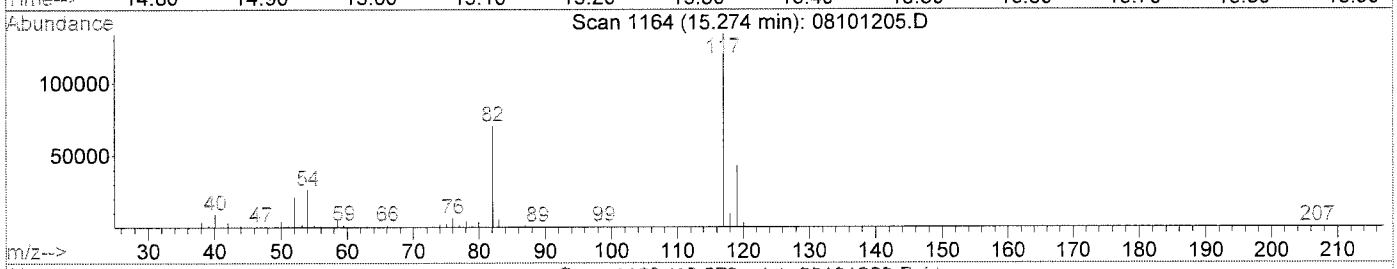
MM 8/13/12

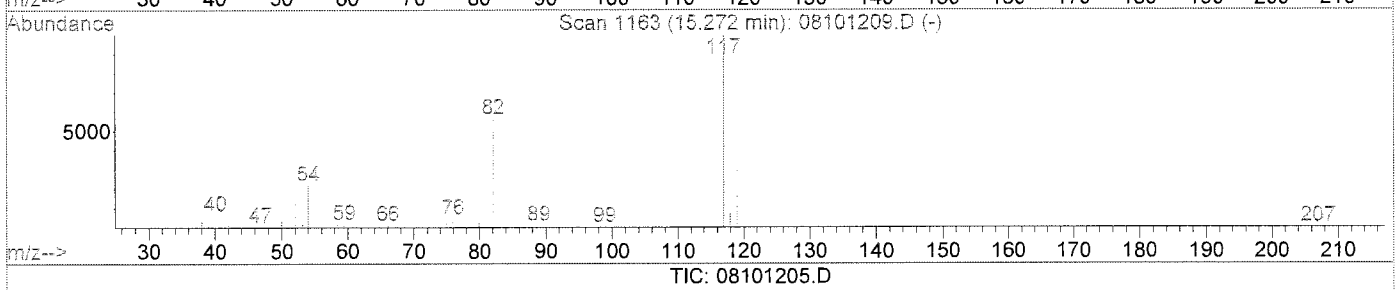
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:16 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L

response 292325

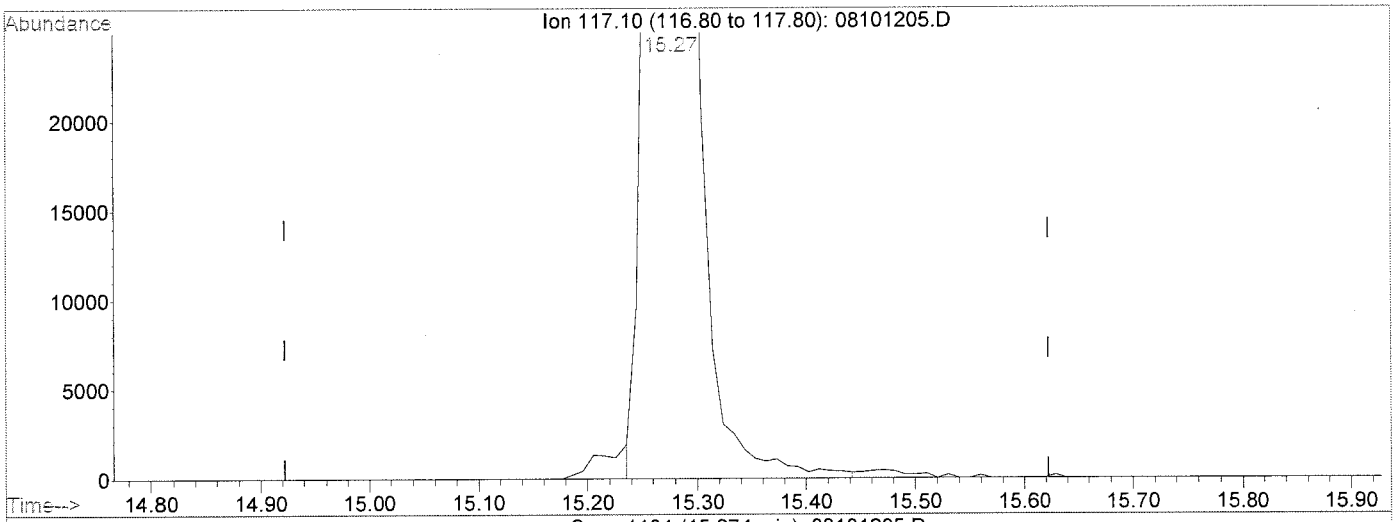
Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

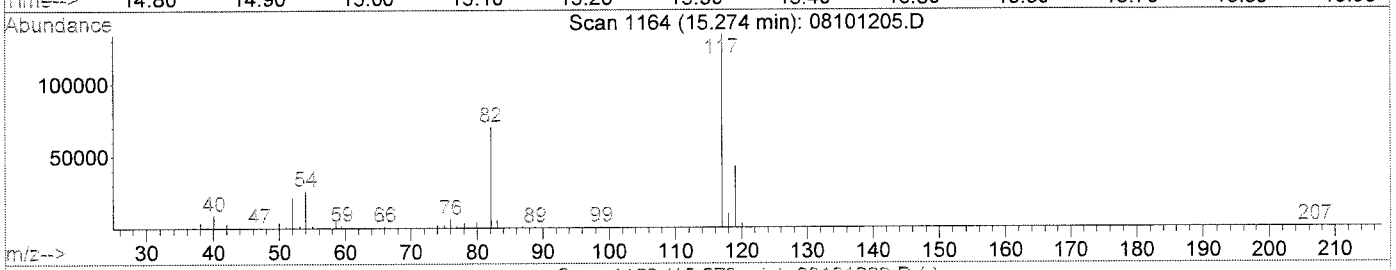
8/13/12
B
CE
MM 8/13/12

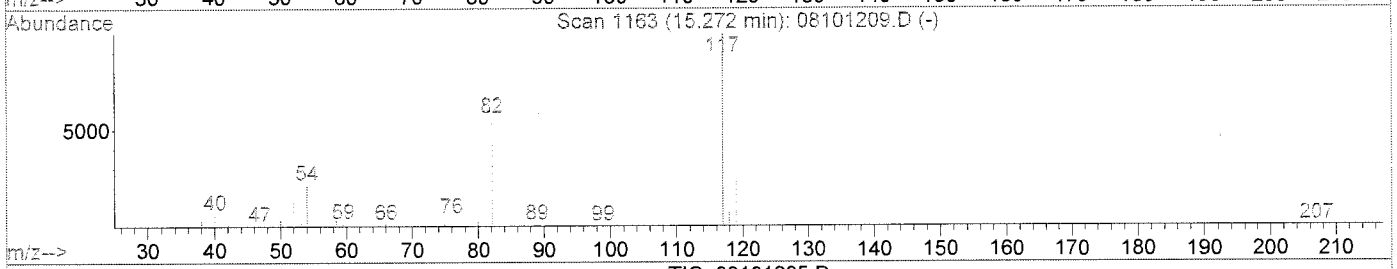
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:17 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101205.D

8/13/12

(50) Chlorobenzene-d5 (I)

15.27min 25.00ug/L m

response 288608

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	64108	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	286588	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	412876	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	288608m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125463	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	5176	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	
48) Toluene-d8	13.33	98	15044	0.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.68%	
62) 4-Bromofluorobenzene	16.96	95	4337	0.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.88%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	0.00	59	0	N.D. d	
5) Dichlorodifluoromethane	4.12	85	10688	1.02 ug/L	99
6) Chloromethane	4.36	50	11345	1.11 ug/L	98
7) Vinyl Chloride	4.63	62	9613	1.03 ug/L	100
8) 1,3-Butadiene	4.79	54	4839	0.96 ug/L #	67
9) Bromomethane	5.19	94	5828m	1.02 ug/L	
10) Chloroethane	5.38	64	4474	0.96 ug/L #	79
11) Trichlorofluoromethane	6.11	101	8147	0.98 ug/L	95
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	10226	1.06 ug/L	98
14) 1,1-Dichloroethene	6.82	96	6624	1.15 ug/L #	79
15) Methylene Chloride	6.99	84	5669	1.11 ug/L	93
16) Freon 113	7.06	101	5907	0.99 ug/L	96
17) Carbon disulfide	7.31	76	17650	0.94 ug/L #	84
18) trans-1,2-Dichloroethene	7.86	96	6803	1.02 ug/L	90
19) MTBE	8.00	73	9909	1.05 ug/L	94
20) 1,1-Dichloroethane	8.18	63	10543	1.02 ug/L	96
21) Vinyl Acetate	0.00	43	0	N.D. d	
22) n-Hexane	8.69	86	1717	1.05 ug/L	85
23) 2-Butanone (MEK)	0.00	72	0	N.D. d	
24) Diisopropyl Ether (DIPE)	8.73	45	18310	1.05 ug/L	94
25) cis-1,2-Dichloroethene	8.91	96	6451	1.06 ug/L	98
26) Bromochloromethane	9.12	128	2129	0.88 ug/L	87
27) Chloroform	9.18	83	8439	0.93 ug/L #	84
28) 2,2-Dichloropropane	9.27	77	7470	1.09 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	12772	1.01 ug/L	94
31) Tetrahydrofuran	0.00	72	0	N.D. d	
32) 1,2-Dichloroethane	10.02	62	4653	1.06 ug/L	93
33) 1,1,1-Trichloroethane	10.14	97	6935	0.91 ug/L #	87
34) (TAME) tert-Amyl methyl et	10.86	73	9862	0.97 ug/L	95
36) 1,1-Dichloropropene	10.38	75	8845	1.00 ug/L #	91
37) Carbon Tetrachloride	10.61	117	6413	0.93 ug/L	96
38) Benzene	10.66	78	20457	0.97 ug/L	98
39) Dibromomethane	11.39	93	2452	0.99 ug/L	96
40) 1,2-Dichloropropane	11.44	63	5094	1.01 ug/L	95

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	5370	0.91 ug/L	93
42)	Bromodichloromethane	11.56	83	5117	0.89 ug/L #	99
43)	2-Chlorovinylethylether	0.00	63	0	N.D. d	
44)	cis-1,3-Dichloropropene	12.39	75	6051	0.90 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	3380	1.12 ug/L	96
46)	trans-1,3-Dichloropropene	12.96	75	4943	0.96 ug/L	97
47)	1,1,2-Trichloroethane	13.17	97	2959	1.01 ug/L	94
49)	Toluene	13.42	92	10896	0.91 ug/L	97
51)	1,3-Dichloropropane	13.49	76	5303	1.03 ug/L	89
52)	2-Hexanone	0.00	43	0	N.D. d	
53)	Dibromochloromethane	13.86	129	3417	0.92 ug/L	93
54)	1,2-Dibromoethane	14.18	107	2908	0.93 ug/L	98
55)	Tetrachloroethene	14.41	164	4967	0.98 ug/L	93
56)	1,1,1,2-Tetrachloroethane	15.22	131	3789	0.93 ug/L #	1
57)	Chlorobenzene	15.32	112	10784	0.91 ug/L #	80
58)	Ethylbenzene	15.58	91	20863	1.01 ug/L	93
59)	m,p-Xylenes	15.84	106	7380	0.93 ug/L	91
60)	Styrene	16.30	104	9553	0.90 ug/L	97
61)	o-Xylene	16.40	106	7004	0.96 ug/L	98
64)	Bromoform	16.02	173	1913	0.89 ug/L	98
65)	1,1,2,2-Tetrachloroethane	16.39	83	3250	0.96 ug/L	96
66)	1,2,3-Trichloropropane	16.58	110	765	0.94 ug/L #	61
67)	trans-1,4-Dichloro-2-buten	0.00	53	0	N.D. d	
68)	Isopropylbenzene	16.90	105	17839	0.95 ug/L	98
69)	Bromobenzene	17.25	156	4047	0.89 ug/L	91
70)	n-Propylbenzene	17.51	91	22751	0.96 ug/L	94
71)	2-Chlorotoluene	17.65	91	12533	0.97 ug/L	90
72)	4-Chlorotoluene	17.75	91	12326	0.98 ug/L	93
73)	1,3,5-Trimethylbenzene	17.91	105	13867	0.95 ug/L	99
74)	tert-Butylbenzene	18.30	119	12547	0.96 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	13204	0.96 ug/L	96
76)	sec-Butylbenzene	18.61	105	19700	0.93 ug/L	96
77)	1,3-Dichlorobenzene	18.72	146	7952	0.96 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	7762	0.95 ug/L #	94
79)	p-Isopropyltoluene	18.85	119	15724	0.99 ug/L	98
80)	1,2-Dichlorobenzene	19.28	146	6825	1.01 ug/L	92
81)	n-Butylbenzene	19.40	91	14669	0.97 ug/L	100
82)	1,2-Dibromo-3-chloropropan	0.00	75	0	N.D. d	
83)	1,2,4-Trichlorobenzene	21.51	180	3123	0.86 ug/L	87
84)	Napthalene	21.83	128	6316	1.09 ug/L	94
85)	Hexachlorobutadiene	21.88	225	2901	0.78 ug/L	96
86)	1,2,3-Trichlorobenzene	22.09	180	2981	0.84 ug/L	90

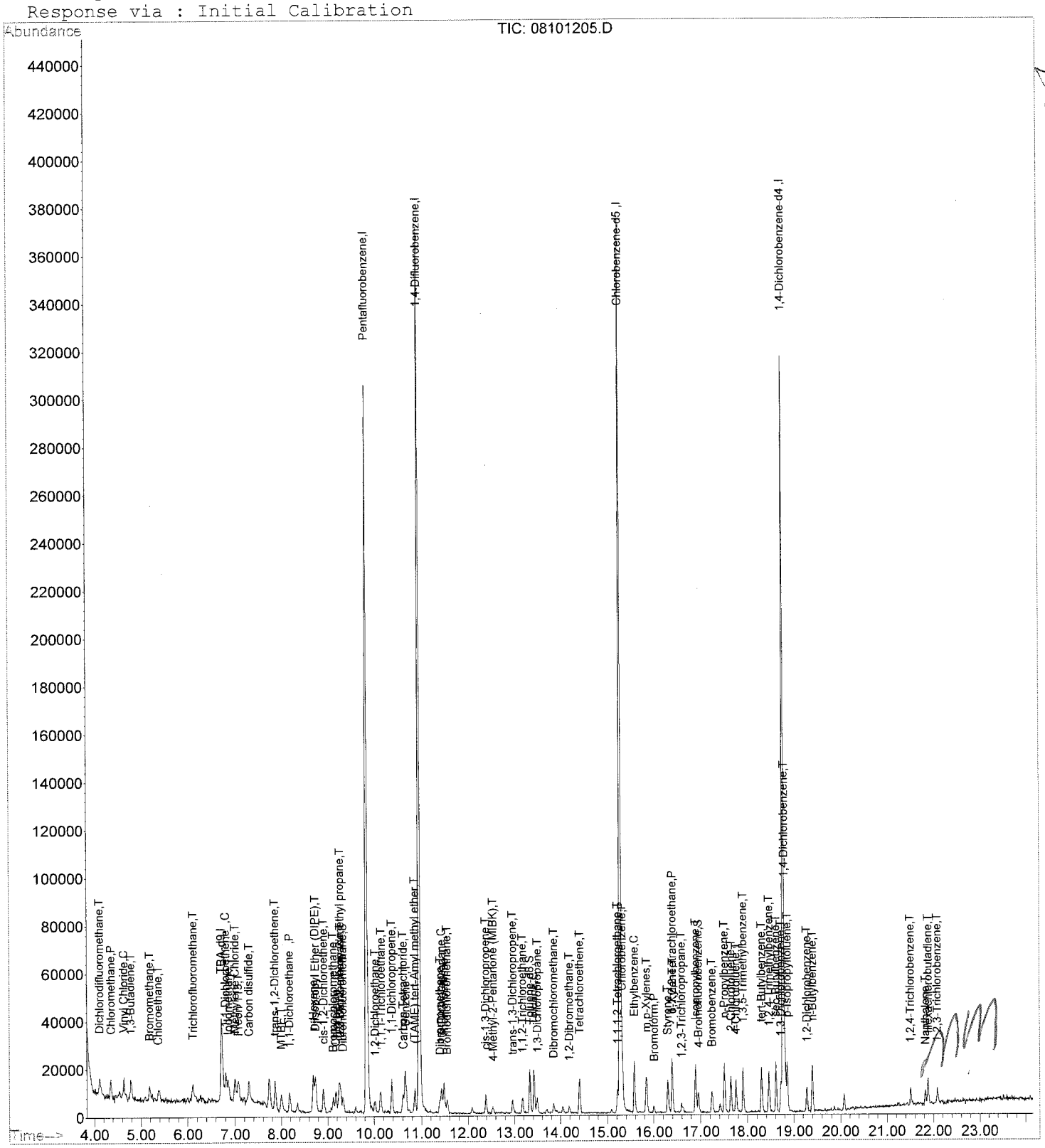
MM

(#) = qualifier out of range (m) = manual integration
08101205.D 081012.M Mon Aug 13 05:18:23 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D Vial: 5
Acq On : 10 Aug 2012 8:36 am Operator: MNM
Sample : 1.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: 081012.RES

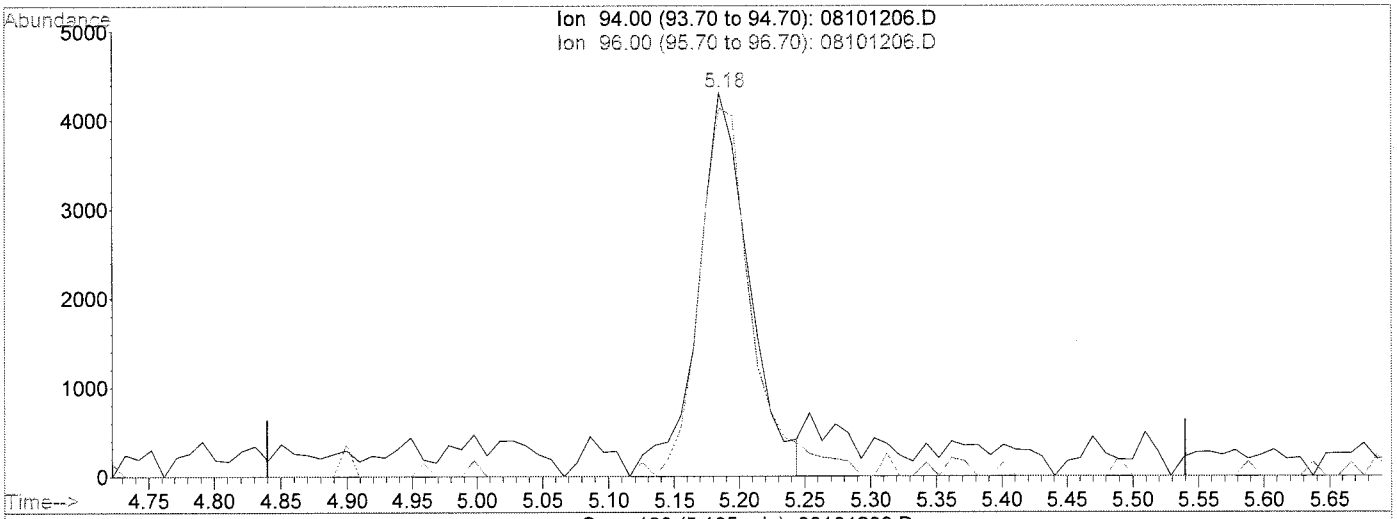
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

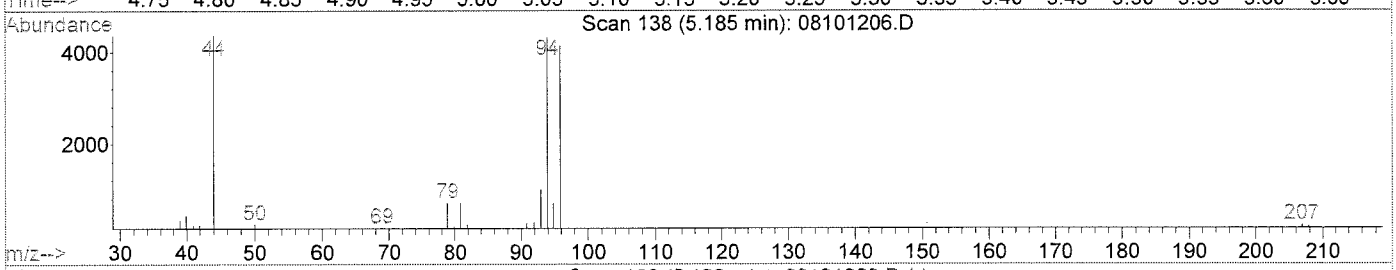


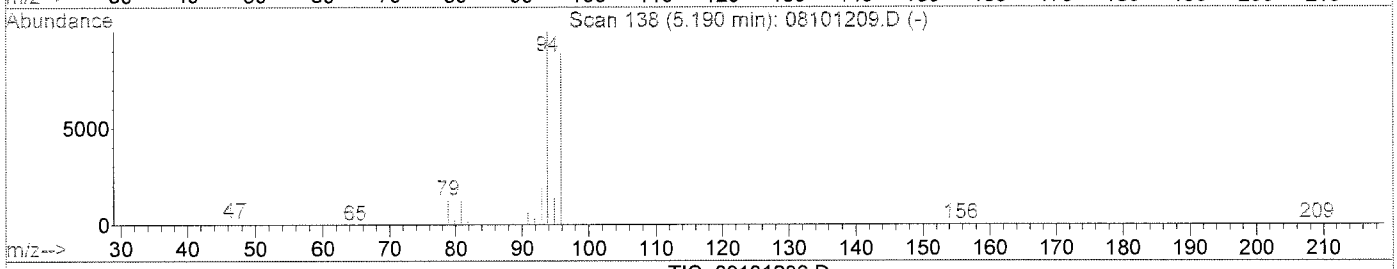
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:18 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(9) Bromomethane (T)

5.18min 2.07ug/L

response 11737

Ion	Exp%	Act%
94.00	100	100
96.00	94.70	98.70
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

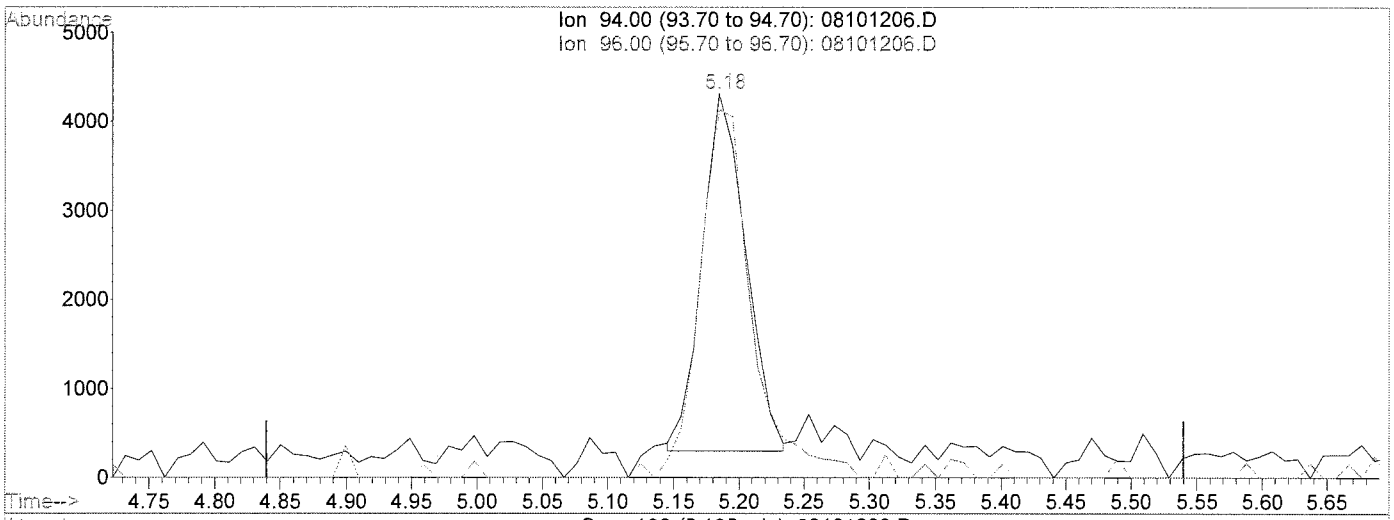
BL

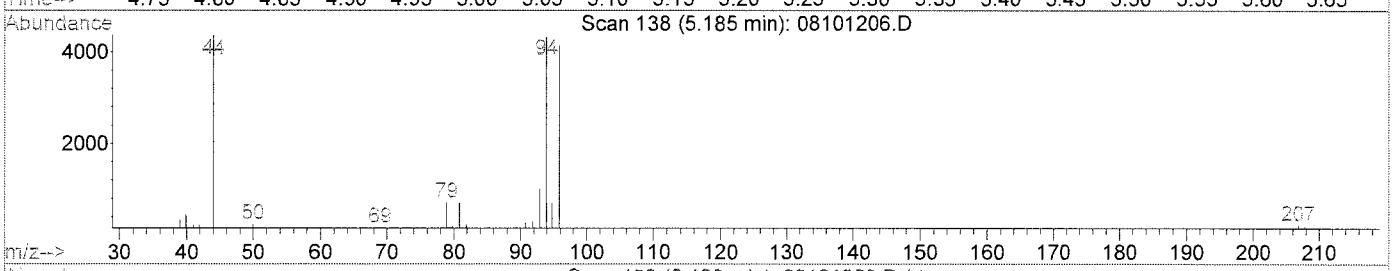
MM 8/13/12

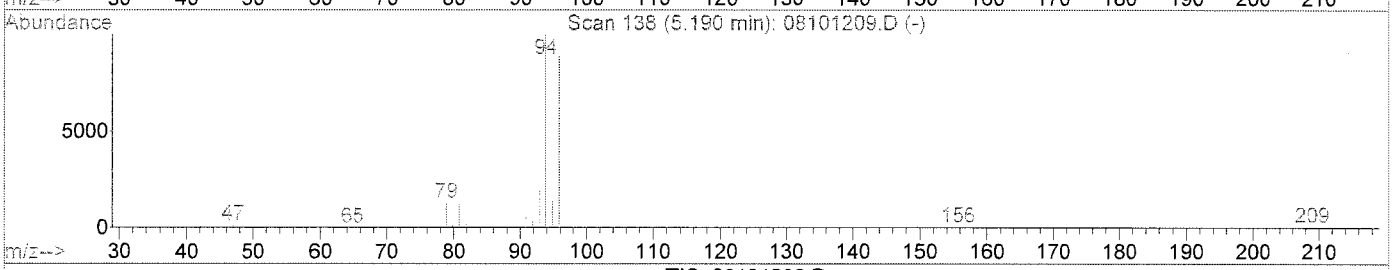
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

8/13/12

(9) Bromomethane (T)

5.18min 1.65ug/L m

response 9335

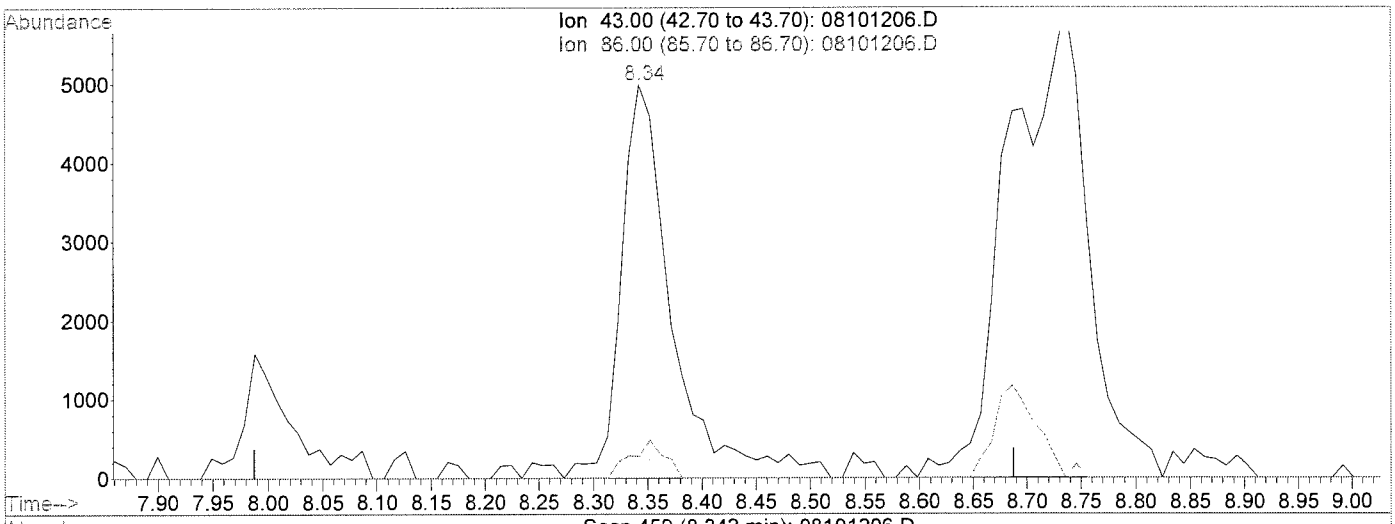
Ion	Exp%	Act%
94.00	100	100
96.00	94.70	124.10#
0.00	0.00	0.00
0.00	0.00	0.00

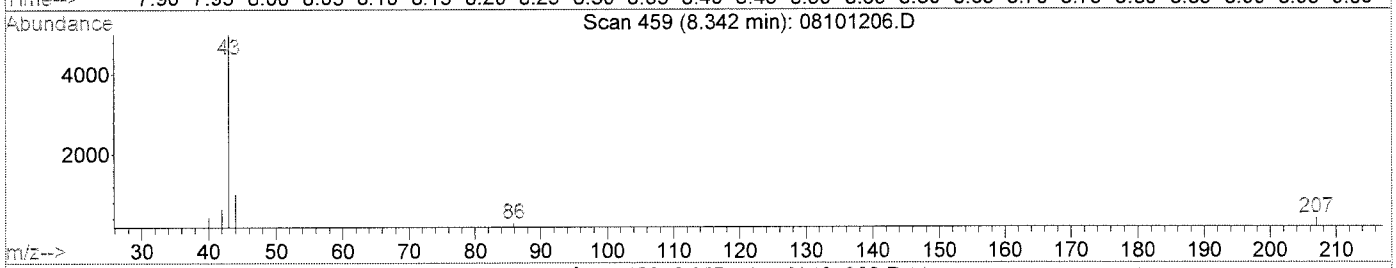
MM 8/13/12

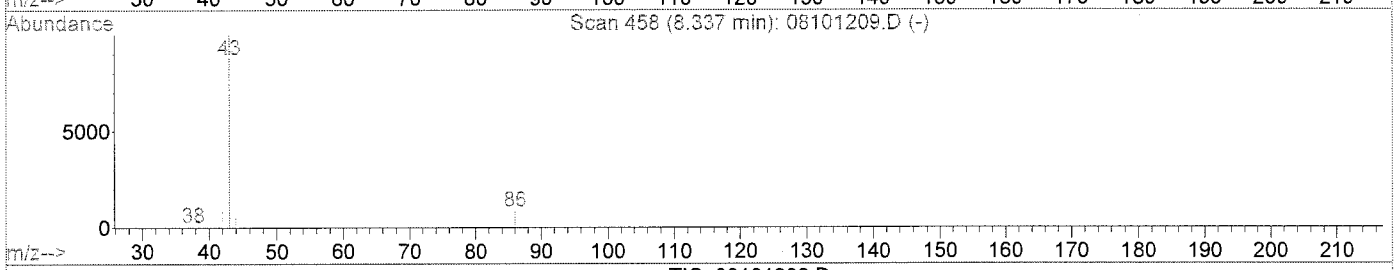
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(21) Vinyl Acetate (T)

8.34min 2.25ug/L

response 16337

Ion	Exp%	Act%
43.00	100	100
86.00	7.90	6.41
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

B

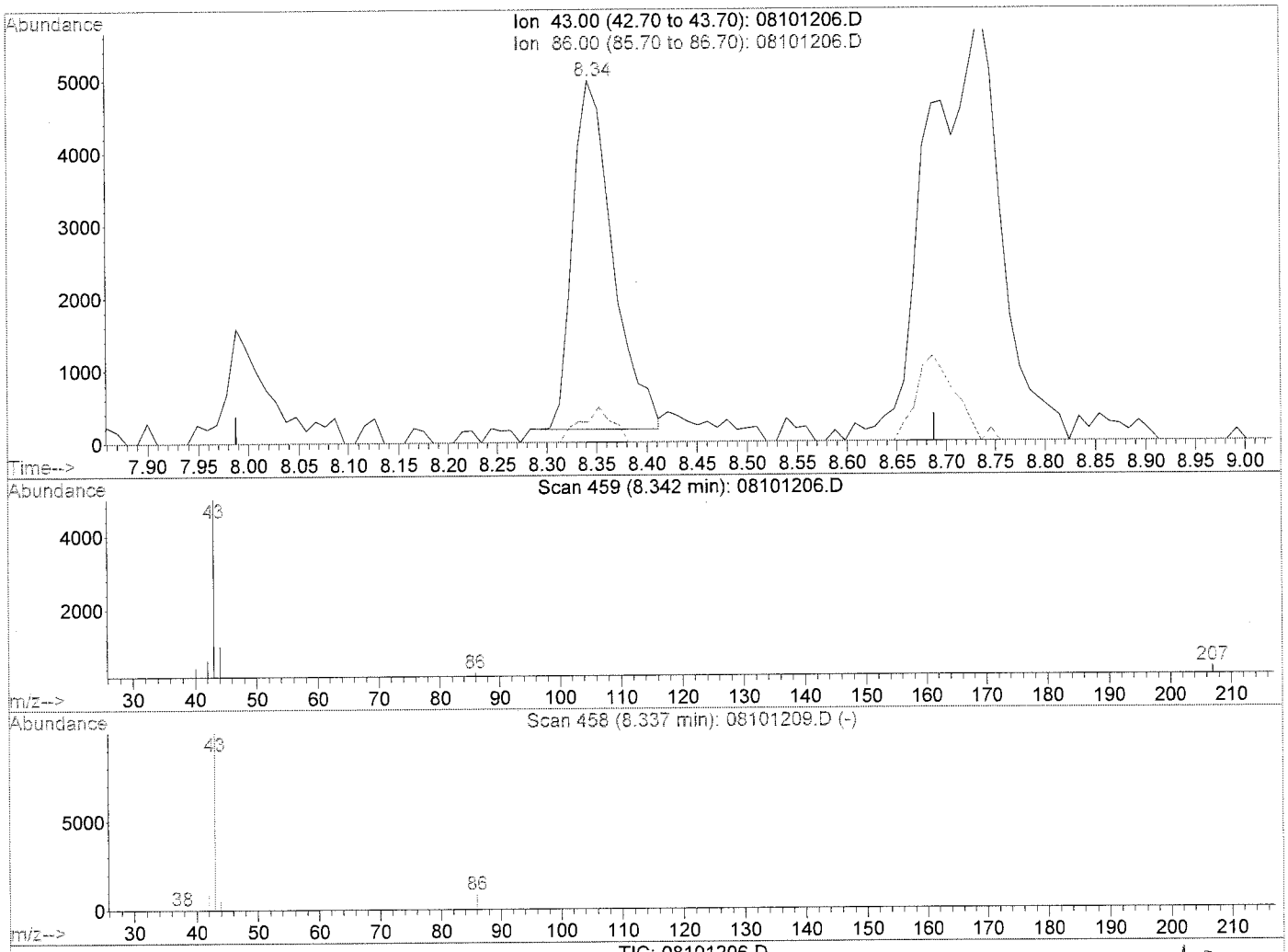
BL

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



✓ 8/13/12

(21) Vinyl Acetate (T)

8.34min 1.83ug/L m

response 13334

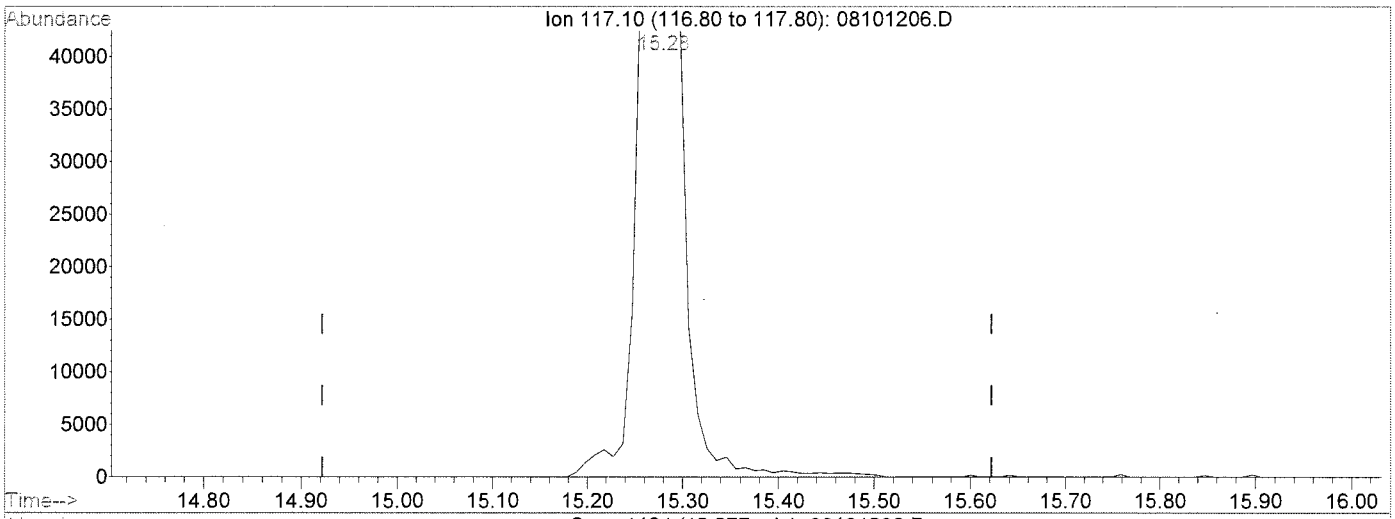
Ion	Exp%	Act%
43.00	100	100
86.00	7.90	7.85
0.00	0.00	0.00
0.00	0.00	0.00

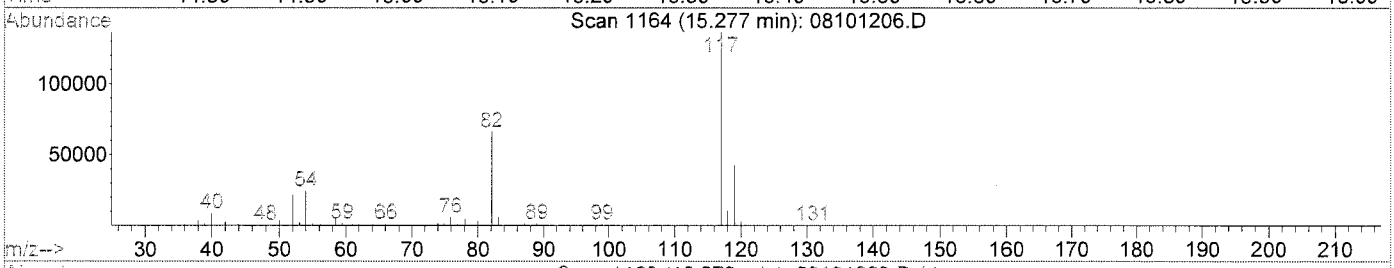
MM 8/13/12

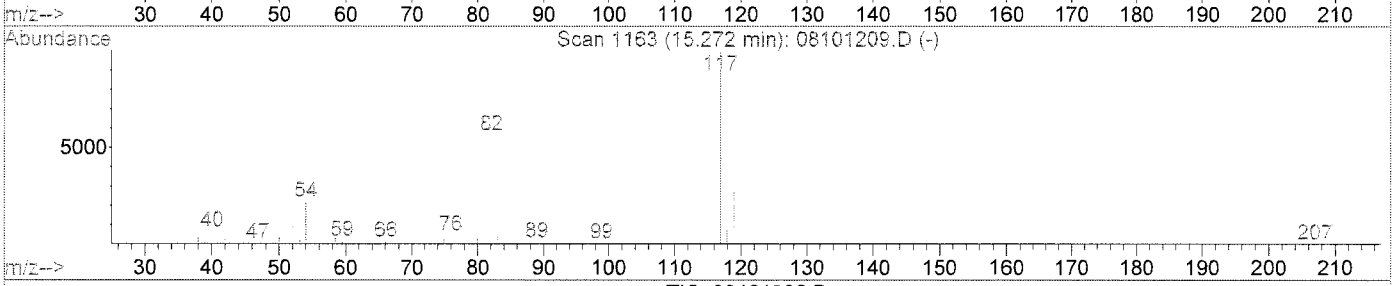
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:19 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L

response 298281

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

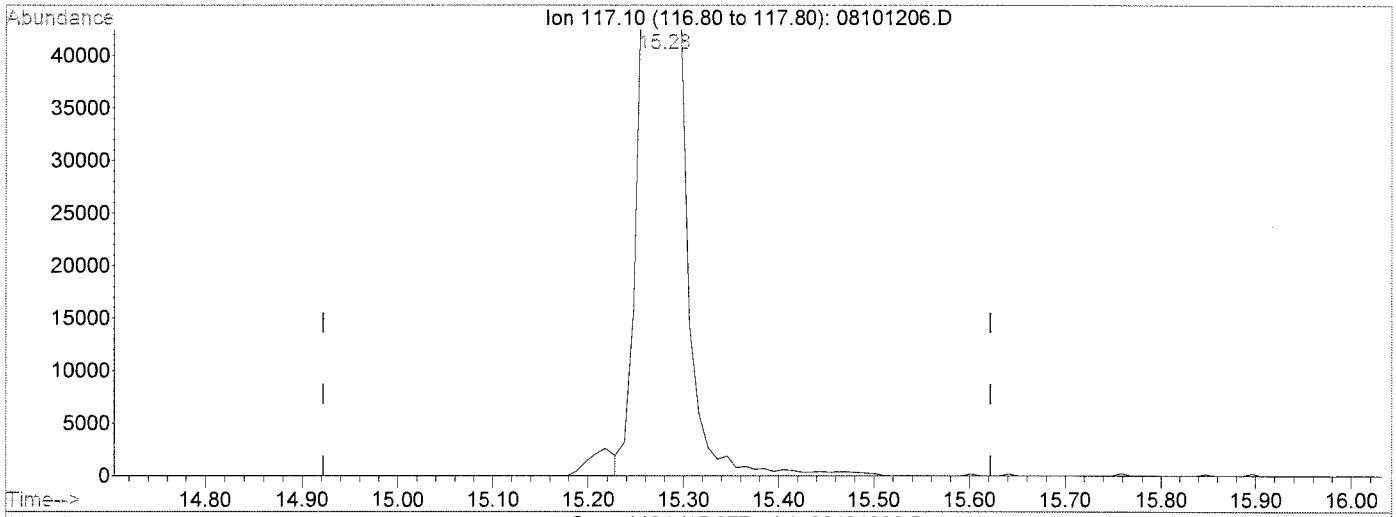
8/13/12

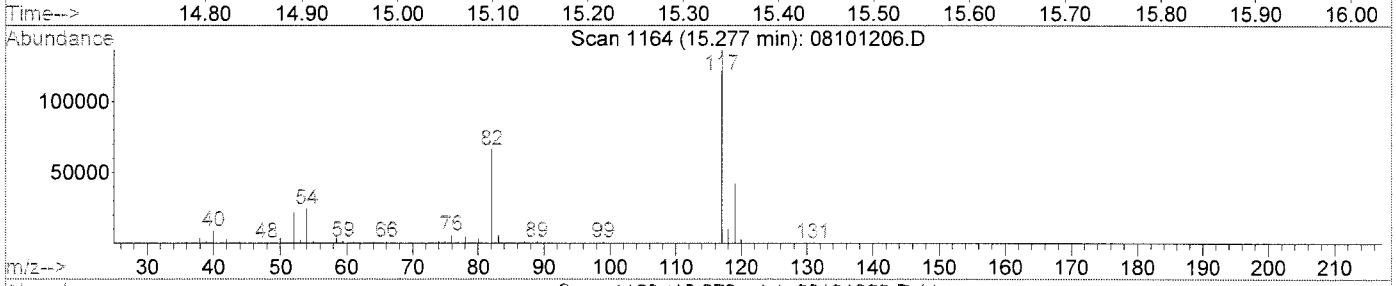
B
CE
MM 8/13/12

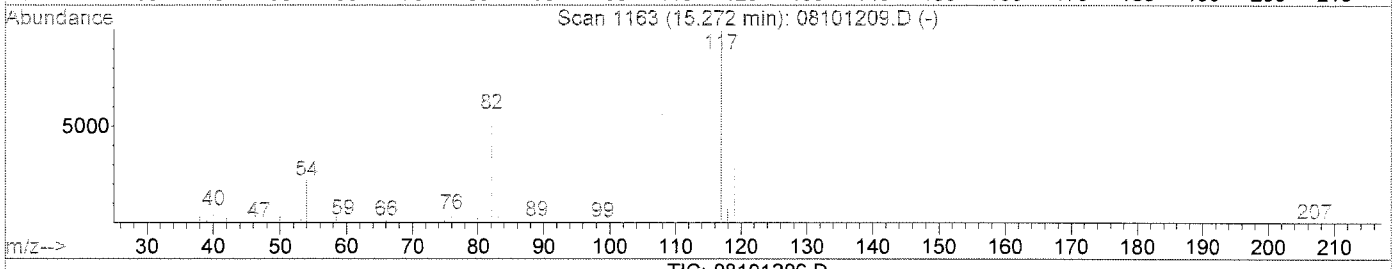
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101206.D

(50) Chlorobenzene-d5 (I)

15.28min 25.00ug/L m

response 293339

Ion	Exp%	Act%
117.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	61538	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	283526	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	398895	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	293339m	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	121641	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	10963	2.21 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.84%	
48) Toluene-d8	13.33	98	34659	2.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.80%	
62) 4-Bromofluorobenzene	16.95	95	9457	2.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.36%	
Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.84	59	3857	10.71 ug/L	100
5) Dichlorodifluoromethane	4.11	85	19360	1.86 ug/L	88
6) Chloromethane	4.35	50	19442	1.92 ug/L	98
7) Vinyl Chloride	4.62	62	18295	1.97 ug/L	99
8) 1,3-Butadiene	4.79	54	9526	1.90 ug/L	89
9) Bromomethane	5.18	94	9335m	1.65 ug/L	
10) Chloroethane	5.39	64	9047	1.97 ug/L #	84
11) Trichlorofluoromethane	6.12	101	15106	1.84 ug/L	92
12) Acetone	0.00	43	0	N.D. d	
13) Iodomethane	6.86	142	19371	2.02 ug/L	98
14) 1,1-Dichloroethene	6.81	96	11692	2.05 ug/L	94
15) Methylene Chloride	6.99	84	10706	2.11 ug/L	93
16) Freon 113	7.06	101	11837	2.00 ug/L	97
17) Carbon disulfide	7.30	76	34510	1.86 ug/L #	46
18) trans-1,2-Dichloroethene	7.86	96	12894	1.95 ug/L	97
19) MTBE	8.00	73	18479	1.98 ug/L	94
20) 1,1-Dichloroethane	8.18	63	21203	2.07 ug/L	97
21) Vinyl Acetate	8.34	43	13334m	1.83 ug/L	
22) n-Hexane	8.69	86	3282	2.02 ug/L	83
23) 2-Butanone (MEK)	8.74	72	770	1.89 ug/L #	21
24) Diisopropyl Ether (DIPE)	8.74	45	36069	2.08 ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	11373	1.89 ug/L	96
26) Bromochloromethane	9.12	128	4731	1.98 ug/L	95
27) Chloroform	9.17	83	18252	2.03 ug/L	96
28) 2,2-Dichloropropane	9.28	77	14375	2.11 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	25896	2.07 ug/L	98
31) Tetrahydrofuran	9.60	72	942	2.54 ug/L #	77
32) 1,2-Dichloroethane	10.01	62	9458	2.18 ug/L	93
33) 1,1,1-Trichloroethane	10.13	97	14552	1.93 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	19881	1.97 ug/L #	95
36) 1,1-Dichloropropene	10.37	75	16300	1.91 ug/L	94
37) Carbon Tetrachloride	10.60	117	11980	1.79 ug/L #	93
38) Benzene	10.66	78	39625	1.95 ug/L	97
39) Dibromomethane	11.39	93	4623	1.92 ug/L	96
40) 1,2-Dichloropropane	11.44	63	9870	2.04 ug/L	95

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:47 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	11947	2.09 ug/L		91
42)	Bromodichloromethane	11.55	83	10648	1.91 ug/L	#	94
43)	2-Chlorovinylethylether	12.09	63	3450	1.88 ug/L	#	91
44)	cis-1,3-Dichloropropene	12.38	75	12256	1.88 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	5965	2.04 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	8864	1.79 ug/L		98
47)	1,1,2-Trichloroethane	13.17	97	5725	2.03 ug/L		99
49)	Toluene	13.42	92	23415	2.02 ug/L		98
51)	1,3-Dichloropropane	13.49	76	9548	1.83 ug/L		100
52)	2-Hexanone	13.69	43	3757	1.73 ug/L	#	86
53)	Dibromochloromethane	13.85	129	6760	1.79 ug/L		96
54)	1,2-Dibromoethane	14.18	107	6483	2.05 ug/L		93
55)	Tetrachloroethene	14.41	164	9734	1.88 ug/L		95
56)	1,1,1,2-Tetrachloroethane	15.22	131	7728	1.87 ug/L		94
57)	Chlorobenzene	15.33	112	23737	1.97 ug/L		91
58)	Ethylbenzene	15.58	91	37962	1.80 ug/L		98
59)	m,p-Xylenes	15.85	106	14006	1.75 ug/L		91
60)	Styrene	16.30	104	19695	1.83 ug/L		98
61)	o-Xylene	16.40	106	12771	1.72 ug/L		92
64)	Bromoform	16.01	173	3623	1.73 ug/L		93
65)	1,1,2,2-Tetrachloroethane	16.40	83	6436	1.97 ug/L	#	97
66)	1,2,3-Trichloropropane	16.59	110	1480	1.88 ug/L		93
67)	trans-1,4-Dichloro-2-buten	16.61	53	1030	2.25 ug/L	#	88
68)	Isopropylbenzene	16.90	105	35158	1.94 ug/L		99
69)	Bromobenzene	17.24	156	8795	1.99 ug/L		98
70)	n-Propylbenzene	17.51	91	42873	1.86 ug/L		99
71)	2-Chlorotoluene	17.65	91	25735	2.06 ug/L		97
72)	4-Chlorotoluene	17.76	91	23403	1.92 ug/L		98
73)	1,3,5-Trimethylbenzene	17.91	105	28001	1.98 ug/L		97
74)	tert-Butylbenzene	18.31	119	24990	1.97 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	26887	2.01 ug/L		95
76)	sec-Butylbenzene	18.61	105	41333	2.02 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	15215	1.89 ug/L		97
78)	1,4-Dichlorobenzene	18.81	146	15598	1.97 ug/L		96
79)	p-Isopropyltoluene	18.86	119	30026	1.96 ug/L		99
80)	1,2-Dichlorobenzene	19.27	146	12959	1.98 ug/L		97
81)	n-Butylbenzene	19.39	91	28530	1.94 ug/L		95
82)	1,2-Dibromo-3-chloropropan	19.86	75	677	2.15 ug/L		91
83)	1,2,4-Trichlorobenzene	21.50	180	7014	1.99 ug/L		93
84)	Napthalene	21.83	128	10482	1.86 ug/L		98
85)	Hexachlorobutadiene	21.89	225	5525	1.87 ug/L		97
86)	1,2,3-Trichlorobenzene	22.07	180	5851	1.84 ug/L		98

7

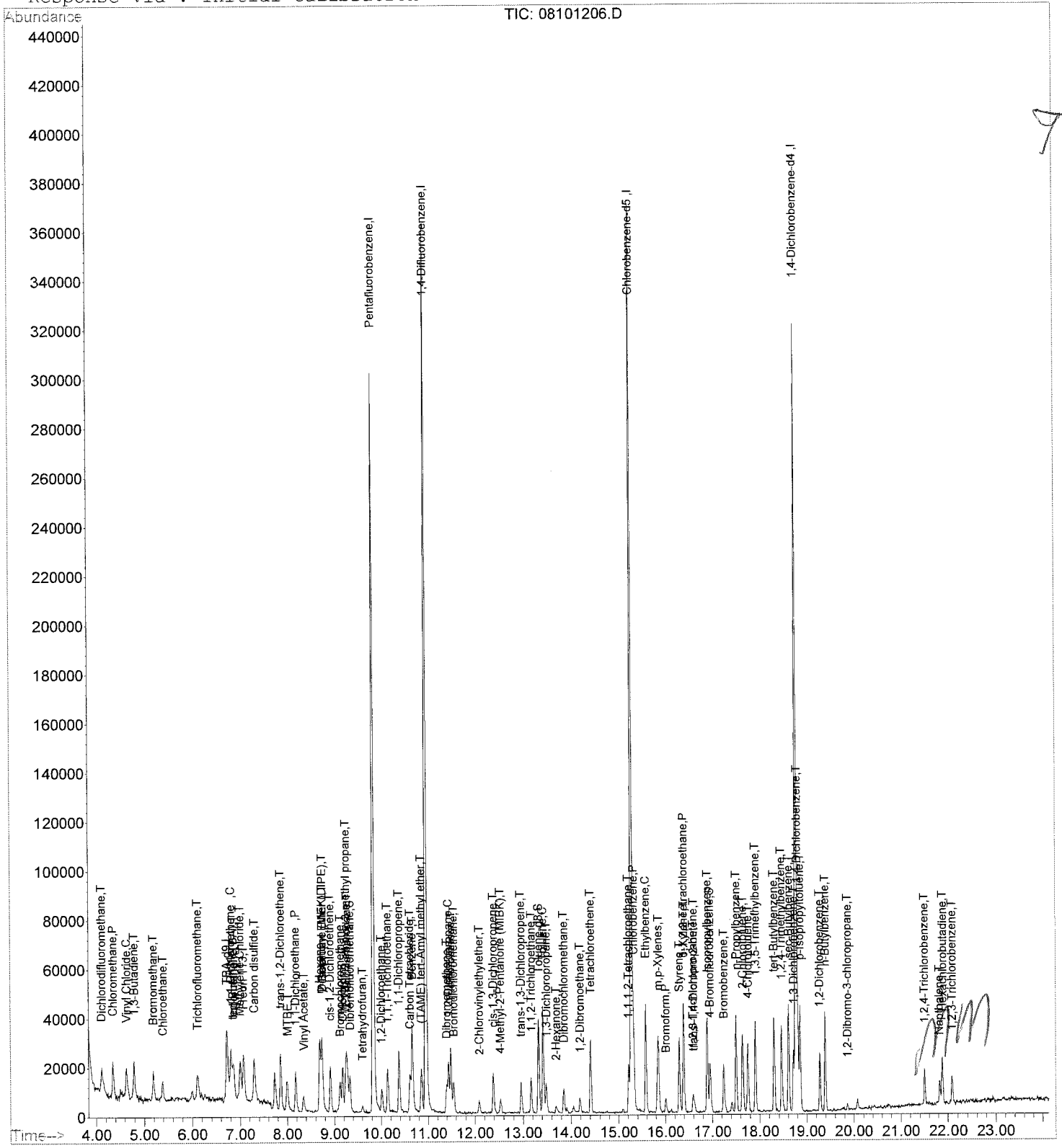
MM

(#) = qualifier out of range (m) = manual integration
08101206.D 081012.M Mon Aug 13 05:20:48 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D Vial: 6
Acq On : 10 Aug 2012 9:08 am Operator: MNM
Sample : 2.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:20 2012 Quant Results File: 081012.RES

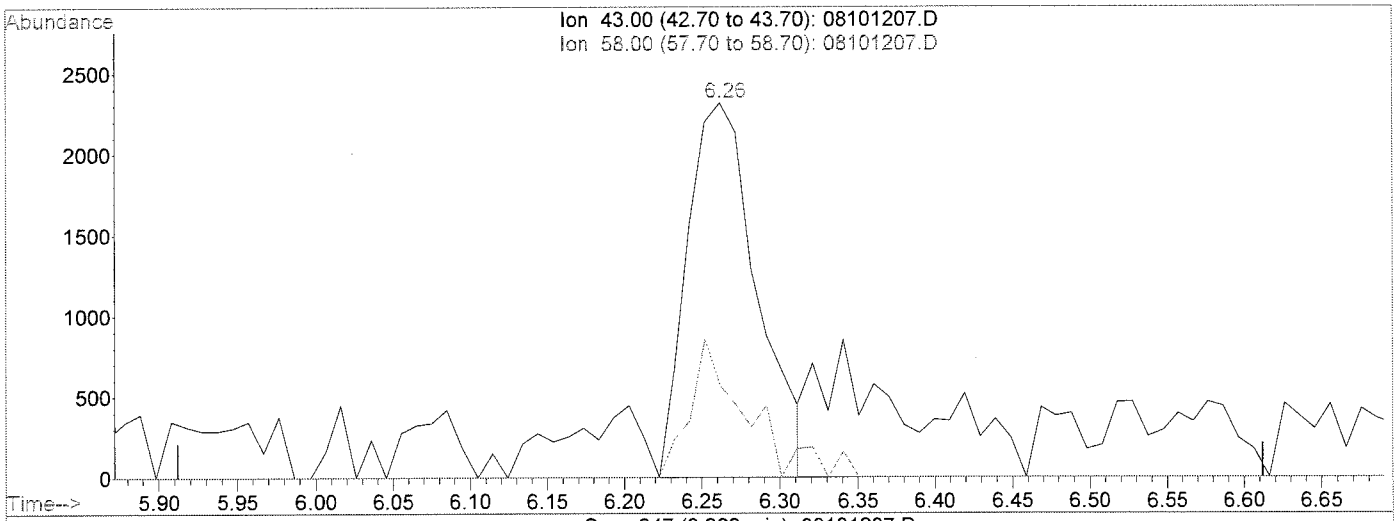
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

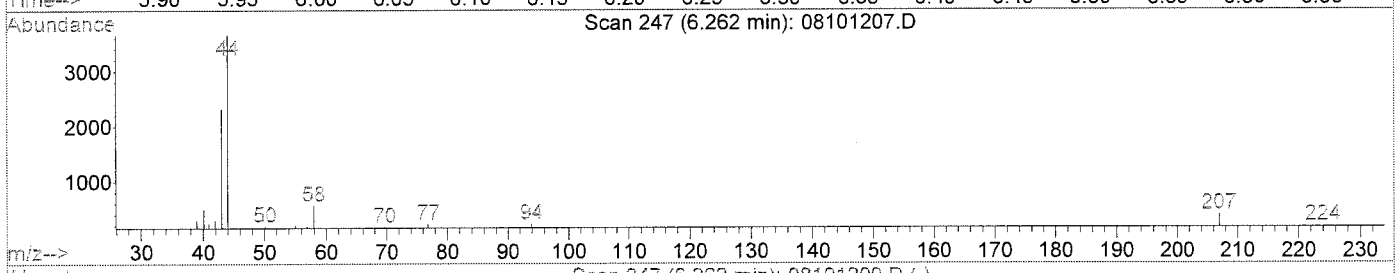


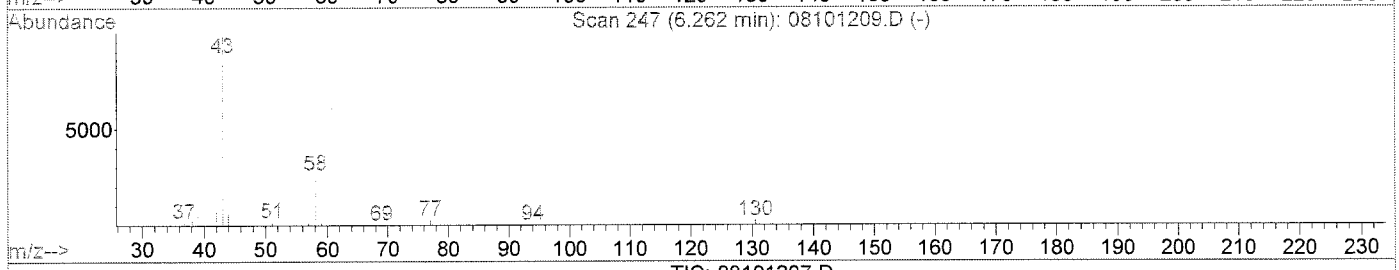
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

(12) Acetone (T)

6.26min 6.60ug/L

response 7175

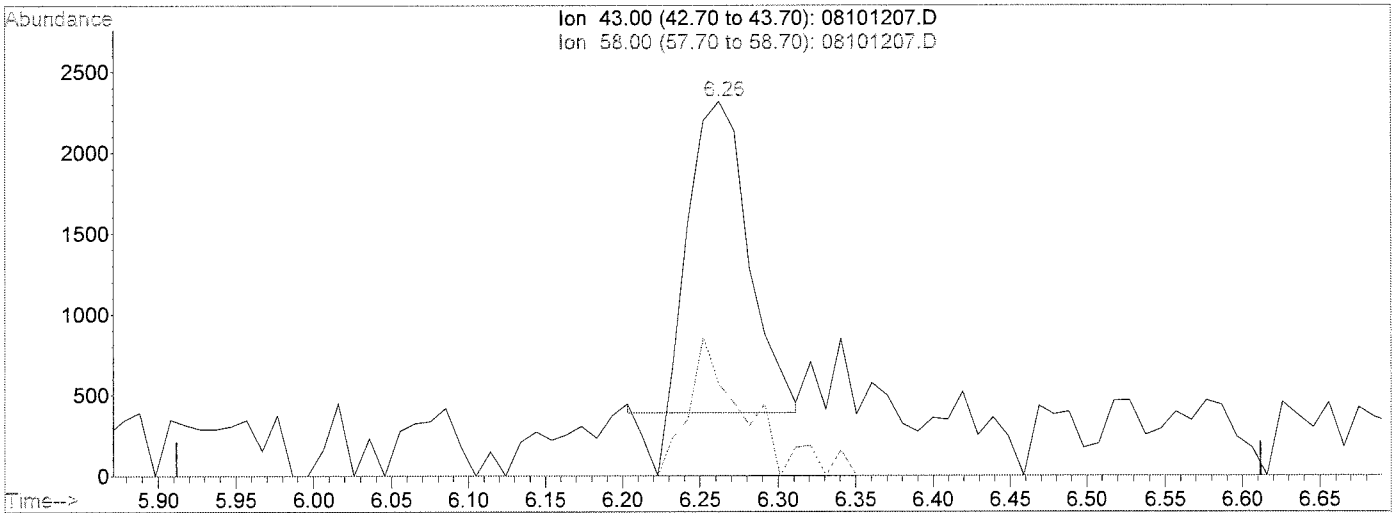
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	27.89
0.00	0.00	0.00
0.00	0.00	0.00

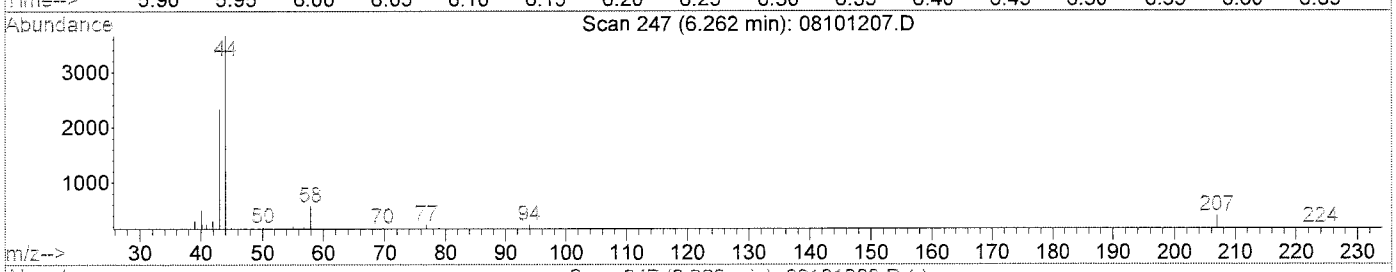
8/13/12
BL
MM 8/13/12

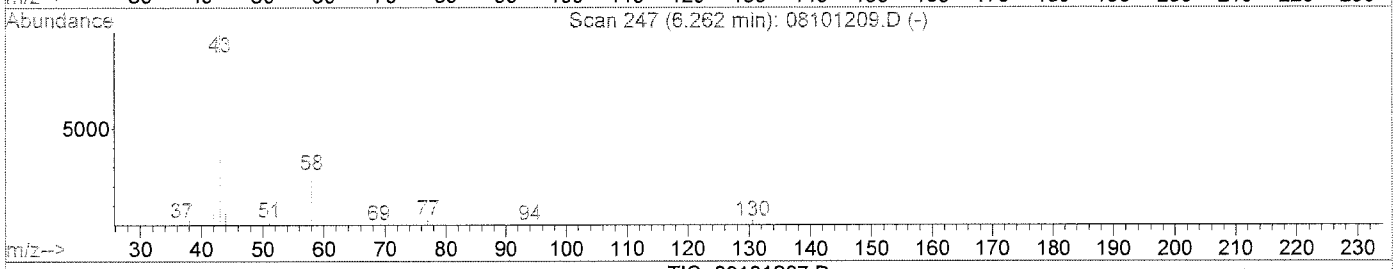
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101207.D

8/13/12

(12) Acetone (T)

6.26min 4.41ug/L m

response 4795

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	41.73#
0.00	0.00	0.00
0.00	0.00	0.00

A

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	48325	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	258308	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	354220	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	253608	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	109235	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	22543	4.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.96%	
48) Toluene-d8	13.32	98	72498	5.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.72%	
62) 4-Bromofluorobenzene	16.95	95	19393	4.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 19.80%	

Target Compounds					Qvalue
2) Ethanol	0.00	45	0	N.D. d	
3) tert-Butanol (TBA)	6.82	59	7191	25.44 ug/L #	94
5) Dichlorodifluoromethane	4.12	85	50503	5.33 ug/L	98
6) Chloromethane	4.35	50	49357	5.35 ug/L	98
7) Vinyl Chloride	4.63	62	49265	5.84 ug/L	97
8) 1,3-Butadiene	4.80	54	25130	5.50 ug/L	97
9) Bromomethane	5.19	94	30021	5.82 ug/L	91
10) Chloroethane	5.38	64	23447	5.60 ug/L	97
11) Trichlorofluoromethane	6.11	101	40948	5.49 ug/L	97
12) Acetone	6.26	43	4795m	4.41 ug/L	
13) Iodomethane	6.86	142	44247	5.07 ug/L	98
14) 1,1-Dichloroethene	6.80	96	26139	5.03 ug/L	100
15) Methylene Chloride	7.00	84	23231	5.02 ug/L	96
16) Freon 113	7.08	101	29531	5.49 ug/L	97
17) Carbon disulfide	7.30	76	90258	5.34 ug/L	98
18) trans-1,2-Dichloroethene	7.87	96	30944	5.14 ug/L	98
19) MTBE	8.00	73	42861	5.03 ug/L	99
20) 1,1-Dichloroethane	8.18	63	50278	5.38 ug/L	98
21) Vinyl Acetate	8.35	43	32000	4.83 ug/L	99
22) n-Hexane	8.68	86	8584	5.81 ug/L	73
23) 2-Butanone (MEK)	8.73	72	1806	4.85 ug/L #	60
24) Diisopropyl Ether (DIPE)	8.74	45	78319	4.96 ug/L	99
25) cis-1,2-Dichloroethene	8.91	96	27851	5.08 ug/L	99
26) Bromochloromethane	9.11	128	10529	4.84 ug/L	90
27) Chloroform	9.17	83	43865	5.36 ug/L	97
28) 2,2-Dichloropropane	9.27	77	32662	5.27 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	55653	4.88 ug/L	98
31) Tetrahydrofuran	9.61	72	1481	4.38 ug/L	95
32) 1,2-Dichloroethane	10.01	62	19485	4.94 ug/L	98
33) 1,1,1-Trichloroethane	10.14	97	35729	5.21 ug/L	97
34) (TAME) tert-Amyl methyl et	10.86	73	44807	4.88 ug/L	98
36) 1,1-Dichloropropene	10.37	75	40445	5.34 ug/L	96
37) Carbon Tetrachloride	10.61	117	30853	5.20 ug/L	95
38) Benzene	10.66	78	91136	5.04 ug/L	99
39) Dibromomethane	11.39	93	10657	4.99 ug/L	94
40) 1,2-Dichloropropane	11.44	63	21430	4.98 ug/L	97

MM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:56 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	27389	5.41 ug/L	94
42)	Bromodichloromethane	11.55	83	25974	5.24 ug/L	95
43)	2-Chlorovinylethylether	12.09	63	6853	4.21 ug/L	96
44)	cis-1,3-Dichloropropene	12.39	75	28675	4.96 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	11973	4.61 ug/L	98
46)	trans-1,3-Dichloropropene	12.96	75	21114	4.80 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	12837	5.12 ug/L	94
49)	Toluene	13.42	92	54238	5.28 ug/L	97
51)	1,3-Dichloropropane	13.49	76	23699	5.26 ug/L	96
52)	2-Hexanone	13.69	43	8850	4.70 ug/L #	94
53)	Dibromochloromethane	13.86	129	16099	4.93 ug/L	100
54)	1,2-Dibromoethane	14.19	107	13554	4.95 ug/L	95
55)	Tetrachloroethene	14.41	164	23934	5.36 ug/L	95
56)	1,1,1,2-Tetrachloroethane	15.21	131	18257	5.10 ug/L	95
57)	Chlorobenzene	15.32	112	54536	5.24 ug/L	98
58)	Ethylbenzene	15.59	91	93388	5.14 ug/L	99
59)	m,p-Xylenes	15.85	106	35706	5.15 ug/L	98
60)	Styrene	16.30	104	44417	4.78 ug/L	98
61)	o-Xylene	16.39	106	32546	5.08 ug/L	98
64)	Bromoform	16.01	173	9250	4.92 ug/L #	82
65)	1,1,2,2-Tetrachloroethane	16.39	83	14360	4.89 ug/L	97
66)	1,2,3-Trichloropropane	16.59	110	3714	5.25 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.62	53	3143	5.21 ug/L #	94
68)	Isopropylbenzene	16.90	105	84596	5.19 ug/L	98
69)	Bromobenzene	17.25	156	19667	4.95 ug/L	93
70)	n-Propylbenzene	17.50	91	106364	5.14 ug/L	99
71)	2-Chlorotoluene	17.64	91	57156	5.10 ug/L	99
72)	4-Chlorotoluene	17.75	91	57414	5.24 ug/L	97
73)	1,3,5-Trimethylbenzene	17.91	105	65369	5.14 ug/L	98
74)	tert-Butylbenzene	18.30	119	58429	5.14 ug/L	95
75)	1,2,4-Trimethylbenzene	18.46	105	63046	5.24 ug/L	99
76)	sec-Butylbenzene	18.61	105	99506	5.41 ug/L	100
77)	1,3-Dichlorobenzene	18.71	146	37917	5.24 ug/L	98
78)	1,4-Dichlorobenzene	18.81	146	35468	5.00 ug/L	98
79)	p-Isopropyltoluene	18.86	119	72640	5.27 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	30287	5.14 ug/L	100
81)	n-Butylbenzene	19.39	91	70667	5.35 ug/L	97
82)	1,2-Dibromo-3-chloropropan	19.87	75	1150	3.92 ug/L #	53
83)	1,2,4-Trichlorobenzene	21.51	180	17519	5.55 ug/L	96
84)	Napthalene	21.82	128	26687	5.28 ug/L	96
85)	Hexachlorobutadiene	21.88	225	14706	6.26 ug/L	92
86)	1,2,3-Trichlorobenzene	22.08	180	14724	5.45 ug/L	96

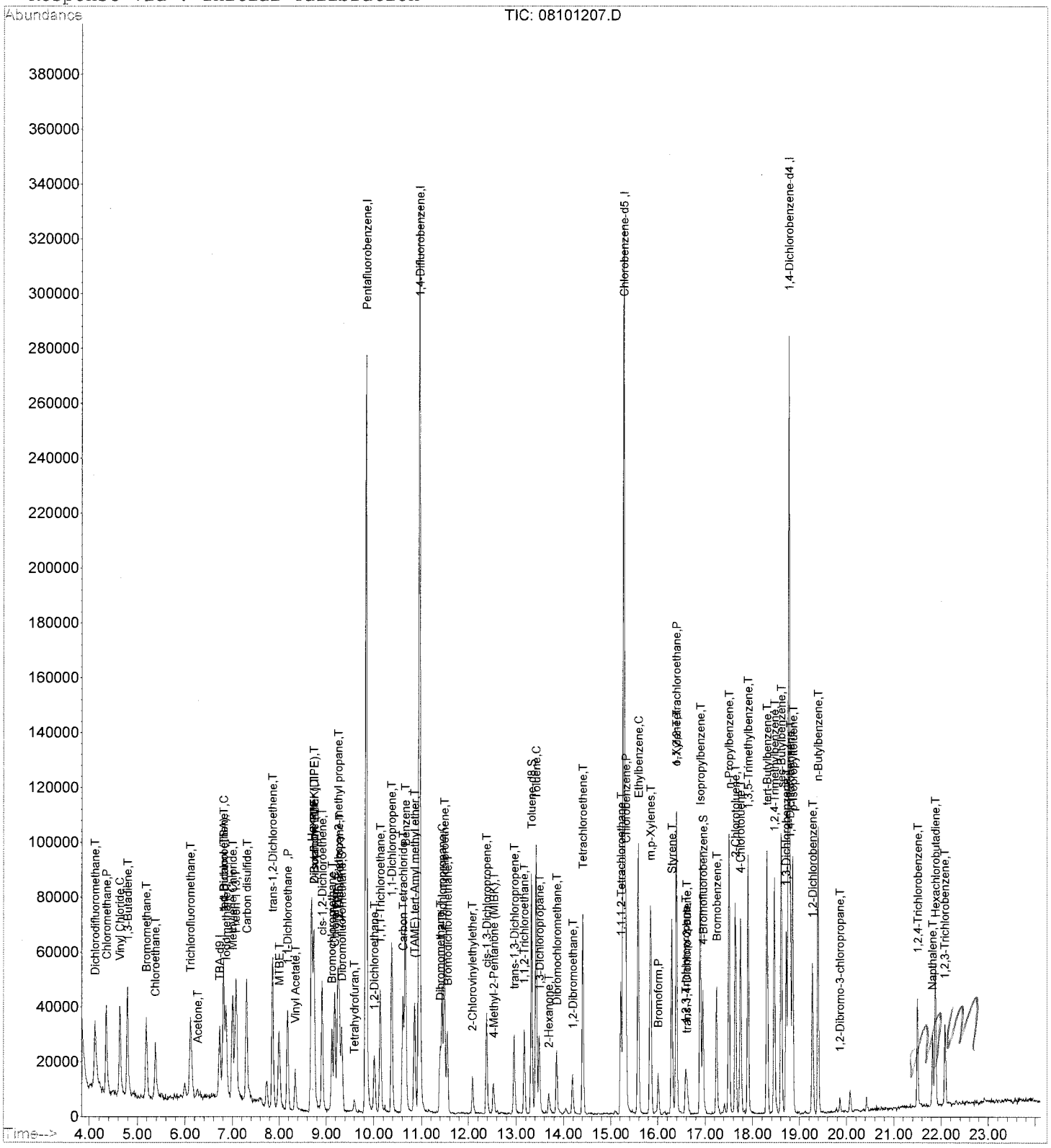
MNM

(#) = qualifier out of range (m) = manual integration
08101207.D 081012.M Mon Aug 13 05:21:57 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D Vial: 7
Acq On : 10 Aug 2012 9:41 am Operator: MNM
Sample : 5.0 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:21 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

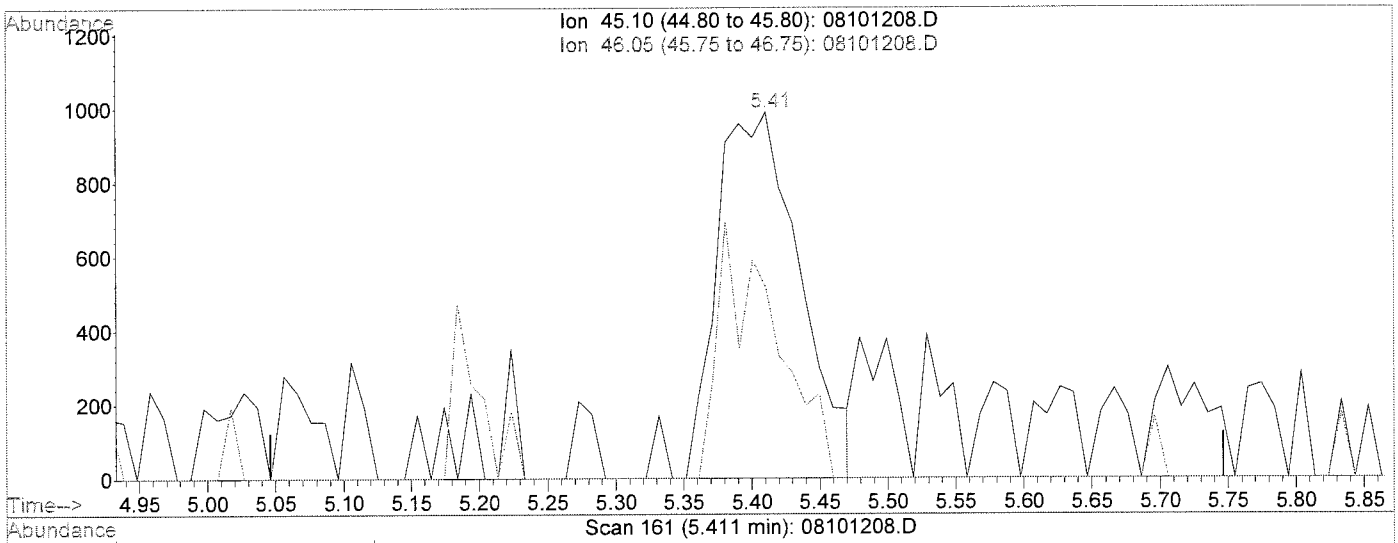


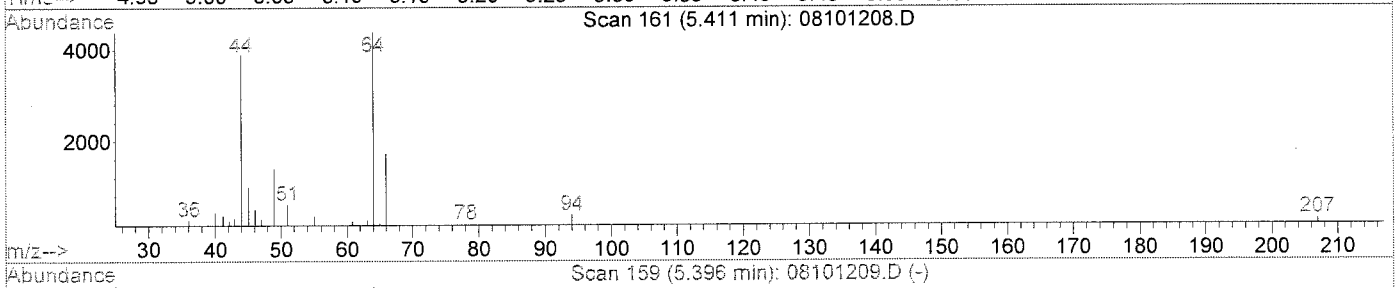
08101207.D 081012.M Mon Aug 13 05:21:57 2012

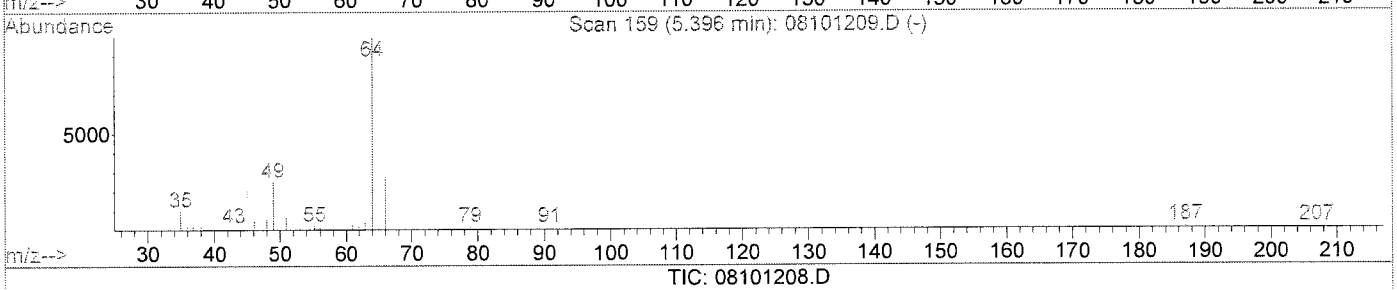
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(2) Ethanol (T)

5.41min 142.10ug/L

response 4162

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.85
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

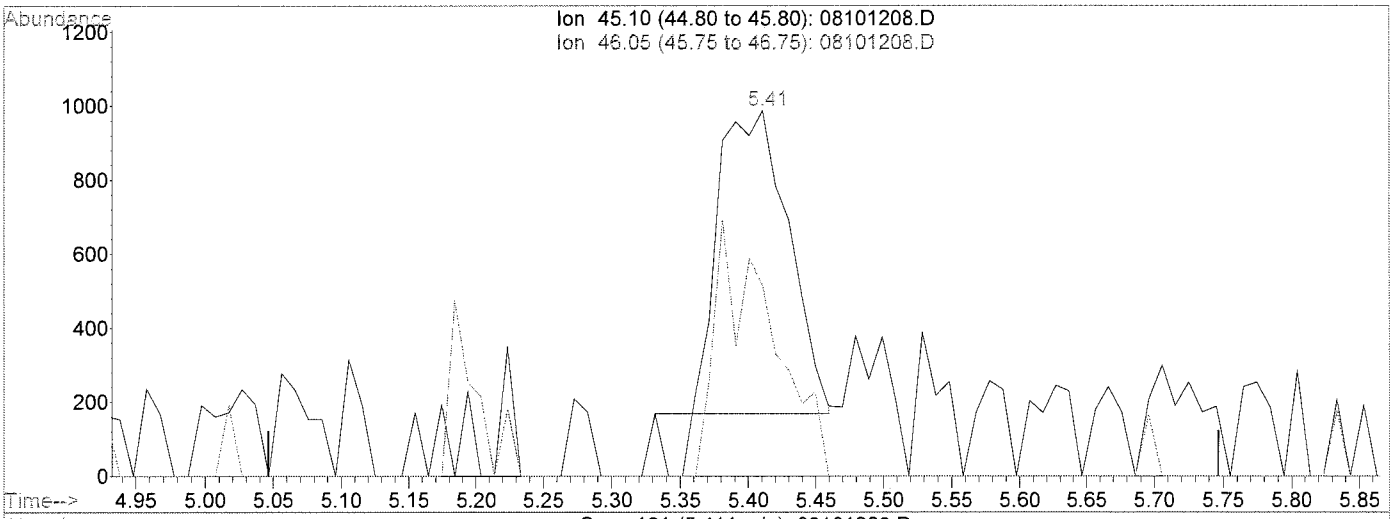
B

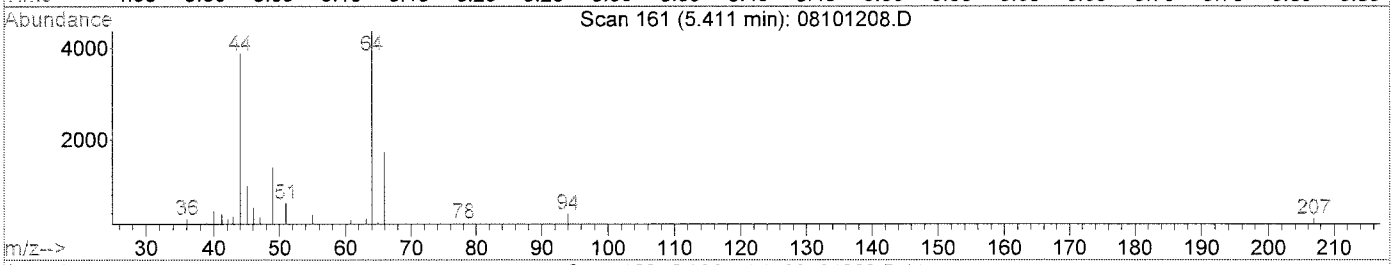
BL MM 8/13/12

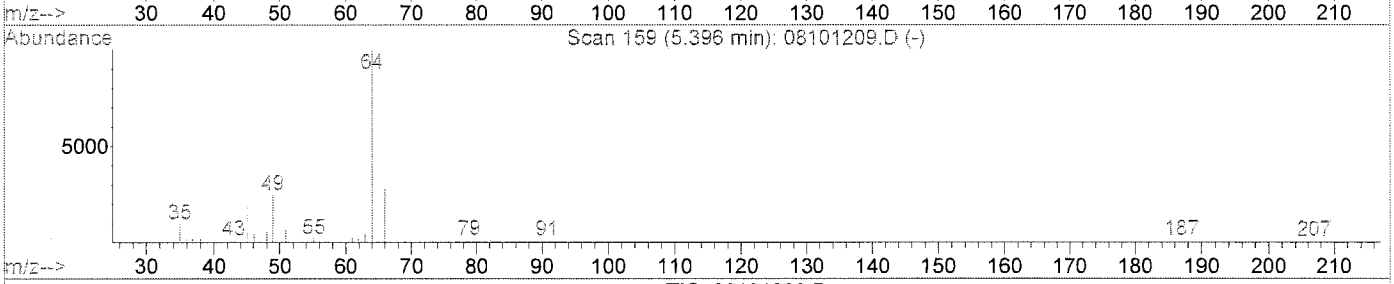
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

8/13/12

(2) Ethanol (T)

5.41min 94.06ug/L m

response 2755

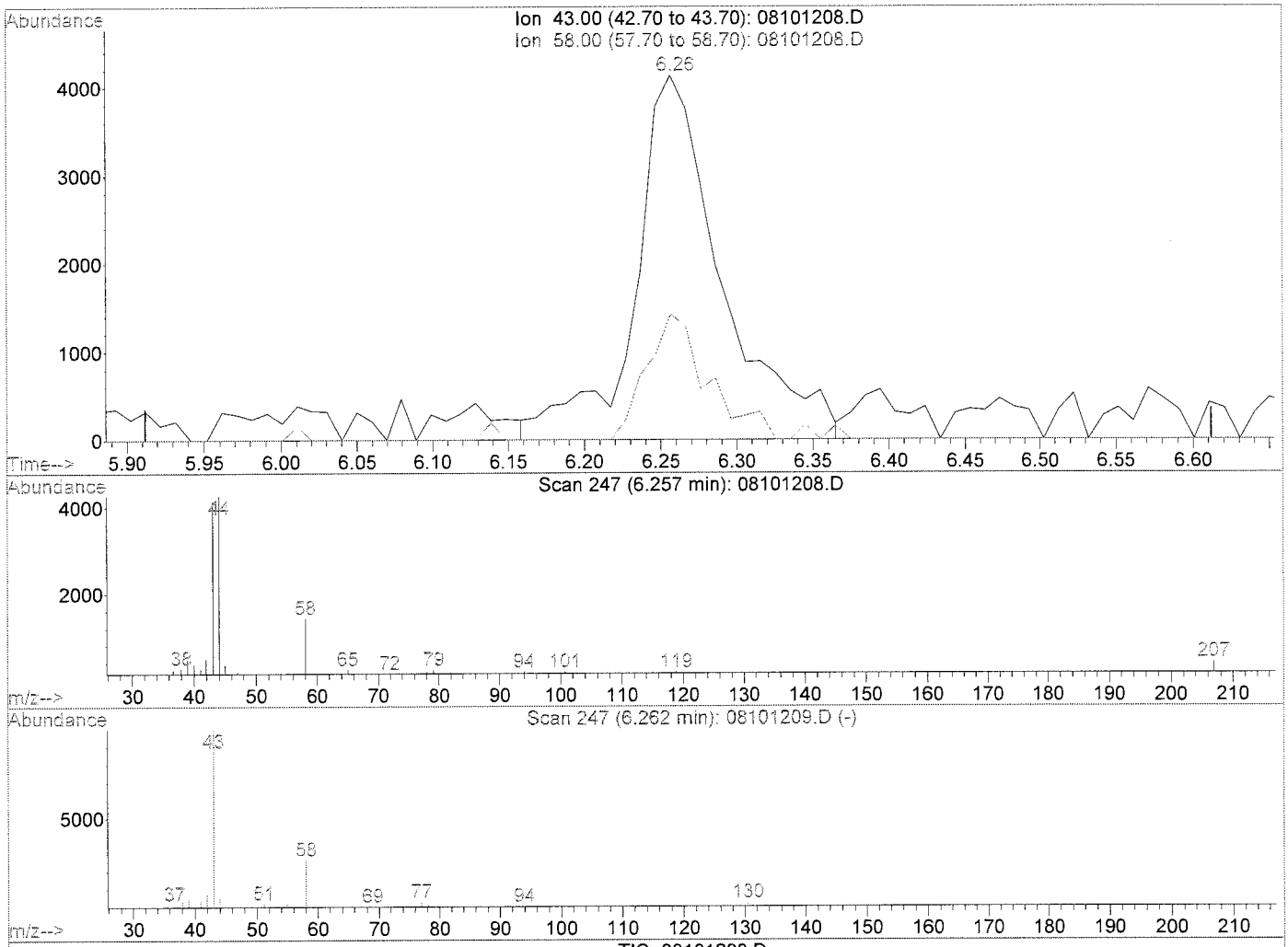
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	73.79
0.00	0.00	0.00
0.00	0.00	0.00

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:22 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



TIC: 08101208.D

8/13/12

(12) Acetone (T)

6.26min 14.56ug/L

response 16281

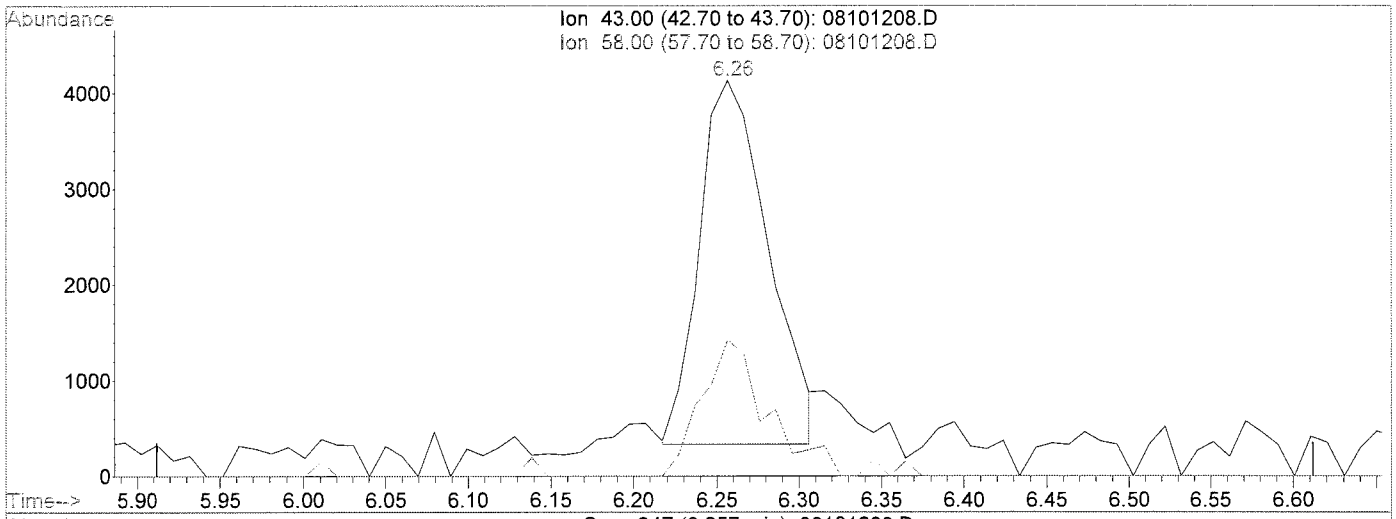
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	24.34#
0.00	0.00	0.00
0.00	0.00	0.00

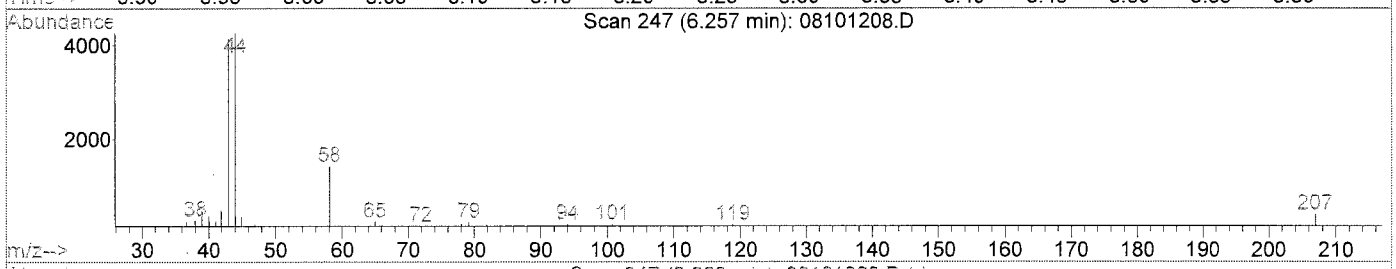
BL MM 8/13/12

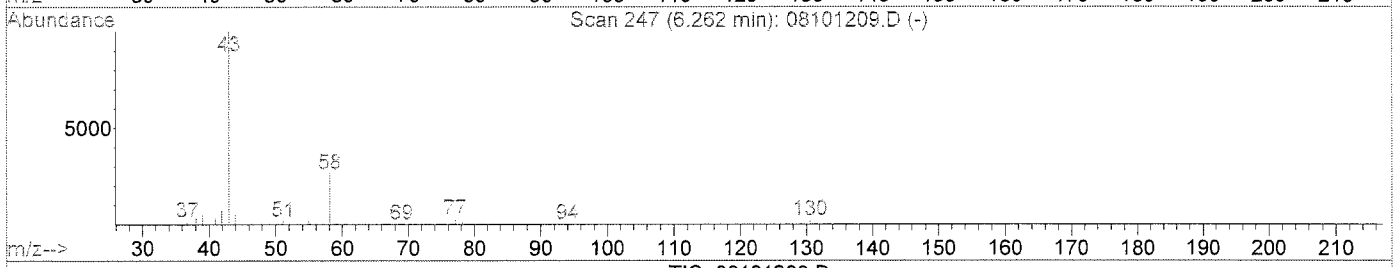
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101208.D

(12) Acetone (T)

6.26min 9.85ug/L m

response 11022

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.96
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	54326	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	265687	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363031	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	257147	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	108672	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	48207	10.37 ug/L	0.00
Spiked Amount 25.000			Recovery =	41.48%	
48) Toluene-d8	13.33	98	151060	10.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	42.16%	
62) 4-Bromofluorobenzene	16.96	95	44181	11.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	44.48%	
Target Compounds					Qvalue
2) Ethanol	5.41	45	2755m	94.06 ug/L	
3) tert-Butanol (TBA)	6.82	59	15057	47.38 ug/L #	95
5) Dichlorodifluoromethane	4.11	85	99359	10.19 ug/L	99
6) Chloromethane	4.35	50	99085	10.44 ug/L	100
7) Vinyl Chloride	4.63	62	94725	10.91 ug/L	98
8) 1,3-Butadiene	4.79	54	50704	10.80 ug/L	93
9) Bromomethane	5.18	94	57814	10.90 ug/L	96
10) Chloroethane	5.38	64	44676	10.38 ug/L	97
11) Trichlorofluoromethane	6.11	101	81825	10.66 ug/L	96
12) Acetone	6.26	43	11022m	9.85 ug/L	
13) Iodomethane	6.87	142	92968	10.36 ug/L	99
14) 1,1-Dichloroethene	6.81	96	53536	10.02 ug/L	97
15) Methylene Chloride	6.99	84	48433	10.18 ug/L	99
16) Freon 113	7.07	101	57249	10.35 ug/L	95
17) Carbon disulfide	7.30	76	183724	10.58 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	63718	10.29 ug/L	99
19) MTBE	8.00	73	90114	10.29 ug/L	96
20) 1,1-Dichloroethane	8.17	63	99374	10.33 ug/L	99
21) Vinyl Acetate	8.34	43	68389	10.03 ug/L	98
22) n-Hexane	8.69	86	15274	10.05 ug/L	99
23) 2-Butanone (MEK)	8.74	72	3909	10.21 ug/L #	34
24) Diisopropyl Ether (DIPE)	8.74	45	169576	10.44 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	59154	10.49 ug/L	96
26) Bromochloromethane	9.12	128	23711	10.59 ug/L	96
27) Chloroform	9.18	83	88095	10.47 ug/L	97
28) 2,2-Dichloropropane	9.28	77	66192	10.39 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	121556	10.37 ug/L	99
31) Tetrahydrofuran	9.59	72	3578	10.28 ug/L	96
32) 1,2-Dichloroethane	10.01	62	41085	10.12 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	75517	10.72 ug/L	99
34) (TAME) tert-Amyl methyl et	10.85	73	91702	9.70 ug/L	98
36) 1,1-Dichloropropene	10.38	75	86510	11.14 ug/L	98
37) Carbon Tetrachloride	10.61	117	64587	10.61 ug/L	96
38) Benzene	10.66	78	192601	10.40 ug/L	98
39) Dibromomethane	11.39	93	22947	10.49 ug/L	95
40) 1,2-Dichloropropane	11.43	63	45818	10.38 ug/L	97

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:23 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	53613	10.32 ug/L		97
42)	Bromodichloromethane	11.55	83	54093	10.65 ug/L		99
43)	2-Chlorovinylethylether	12.09	63	17562	10.53 ug/L		95
44)	cis-1,3-Dichloropropene	12.38	75	62172	10.50 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	27114	10.20 ug/L		93
46)	trans-1,3-Dichloropropene	12.96	75	46129	10.24 ug/L		97
47)	1,1,2-Trichloroethane	13.17	97	27529	10.72 ug/L		99
49)	Toluene	13.42	92	109934	10.43 ug/L		99
51)	1,3-Dichloropropane	13.49	76	47813	10.47 ug/L		99
52)	2-Hexanone	13.68	43	18676	9.79 ug/L		99
53)	Dibromochloromethane	13.85	129	35116	10.61 ug/L		96
54)	1,2-Dibromoethane	14.18	107	29589	10.66 ug/L		96
55)	Tetrachloroethene	14.41	164	47547	10.50 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.22	131	38333	10.56 ug/L		97
57)	Chlorobenzene	15.32	112	113987	10.80 ug/L		98
58)	Ethylbenzene	15.58	91	196709	10.67 ug/L		100
59)	m,p-Xylenes	15.85	106	77315	10.99 ug/L		98
60)	Styrene	16.30	104	101282	10.75 ug/L		98
61)	o-Xylene	16.40	106	72024	11.08 ug/L		96
64)	Bromoform	16.00	173	18119	9.69 ug/L		98
65)	1,1,2,2-Tetrachloroethane	16.39	83	33040	11.32 ug/L	#	96
66)	1,2,3-Trichloropropane	16.59	110	7207	10.24 ug/L		96
67)	trans-1,4-Dichloro-2-buten	16.62	53	6580	9.83 ug/L		94
68)	Isopropylbenzene	16.90	105	174169	10.73 ug/L		99
69)	Bromobenzene	17.24	156	41493	10.49 ug/L		96
70)	n-Propylbenzene	17.51	91	220385	10.70 ug/L		100
71)	2-Chlorotoluene	17.65	91	118995	10.68 ug/L		97
72)	4-Chlorotoluene	17.75	91	114947	10.55 ug/L		99
73)	1,3,5-Trimethylbenzene	17.91	105	140555	11.10 ug/L		99
74)	tert-Butylbenzene	18.31	119	125080	11.06 ug/L		98
75)	1,2,4-Trimethylbenzene	18.46	105	130209	10.87 ug/L		98
76)	sec-Butylbenzene	18.61	105	203460	11.12 ug/L		99
77)	1,3-Dichlorobenzene	18.72	146	78653	10.93 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	75235	10.66 ug/L		99
79)	p-Isopropyltoluene	18.86	119	152942	11.16 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	63302	10.80 ug/L		98
81)	n-Butylbenzene	19.39	91	148822	11.32 ug/L		97
82)	1,2-Dibromo-3-chloropropan	19.86	75	3171	10.63 ug/L	#	74
83)	1,2,4-Trichlorobenzene	21.50	180	37943	12.08 ug/L		98
84)	Napthalene	21.83	128	59549	11.85 ug/L		99
85)	Hexachlorobutadiene	21.89	225	26654	11.81 ug/L		95
86)	1,2,3-Trichlorobenzene	22.08	180	30712	11.71 ug/L		96

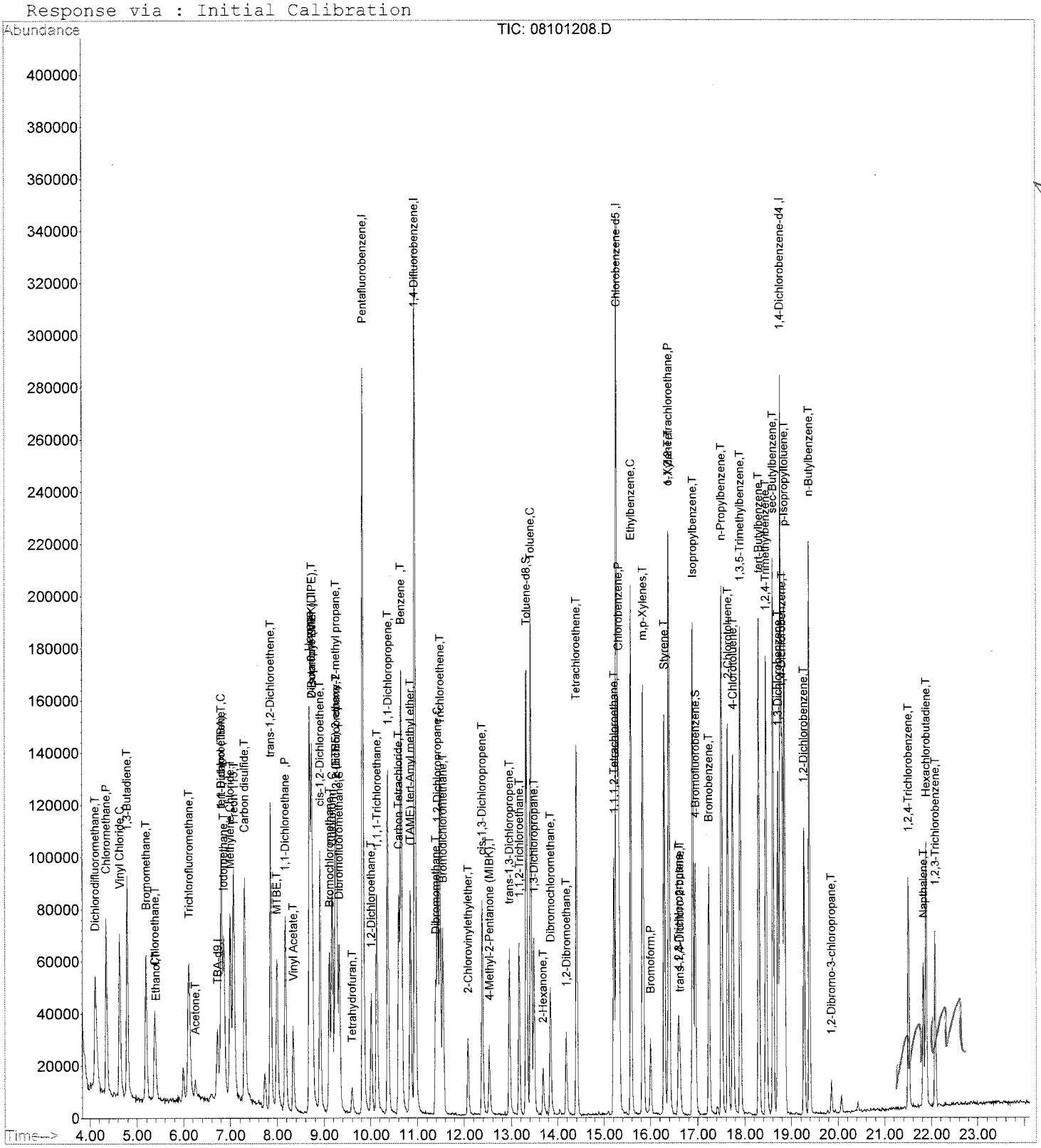
MM

(#) = qualifier out of range (m) = manual integration
08101208.D 081012.M Mon Aug 13 05:23:24 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D Vial: 8
Acq On : 10 Aug 2012 10:14 am Operator: MNM
Sample : 10 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: 081012.RES

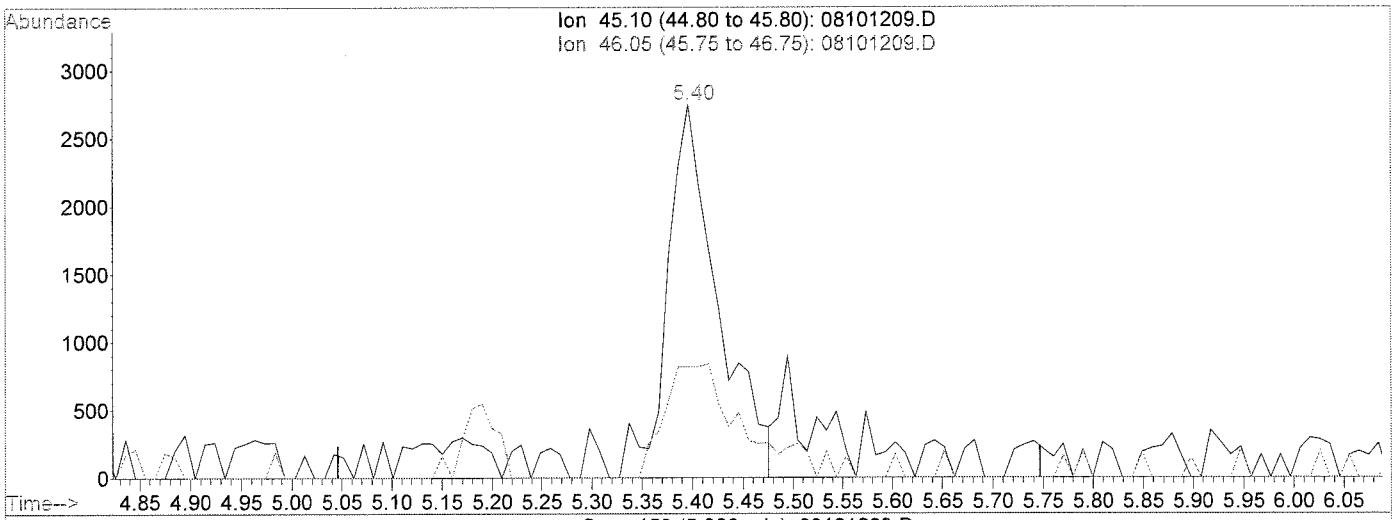
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

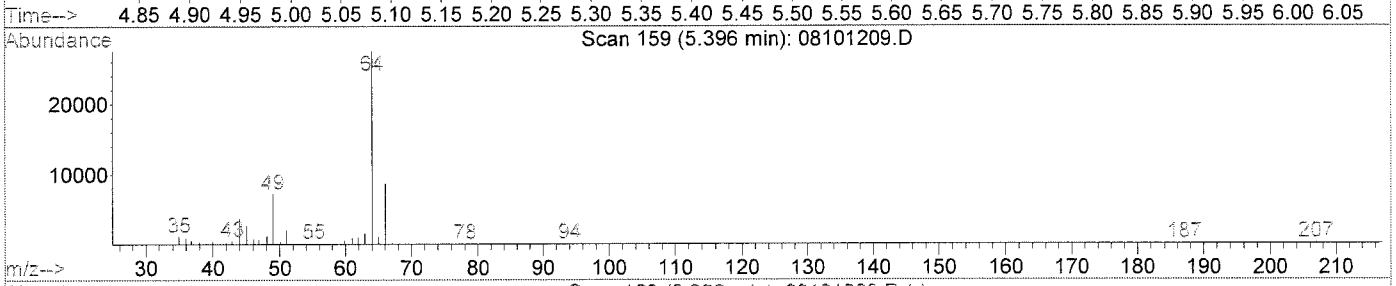


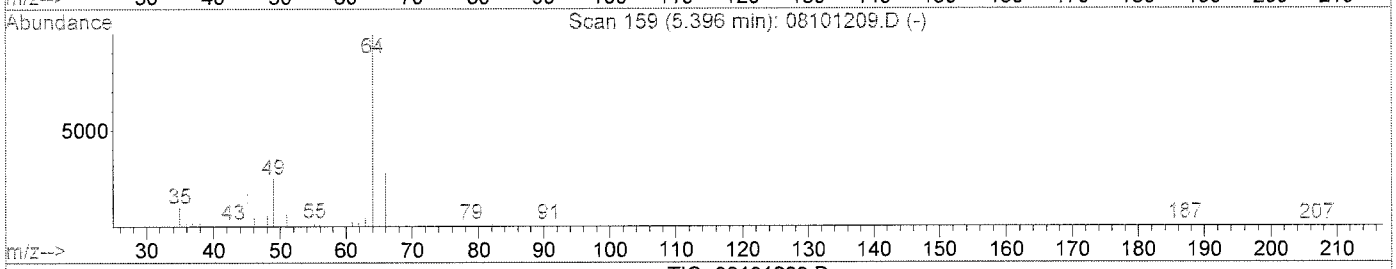
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 337.19ug/L

response 9561

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	42.00
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

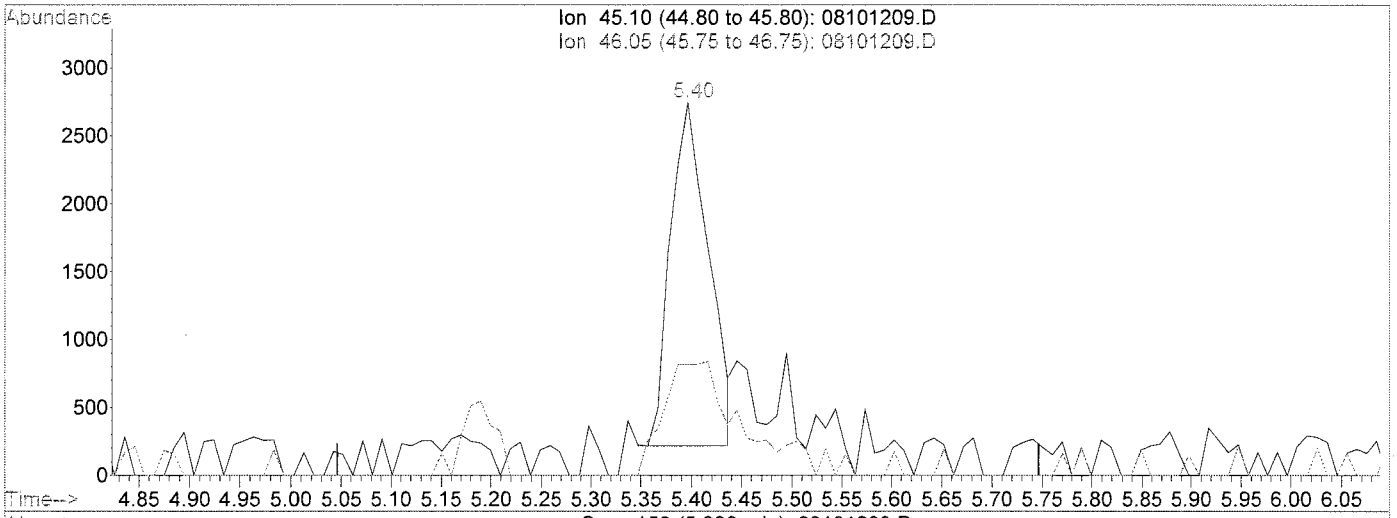
BL

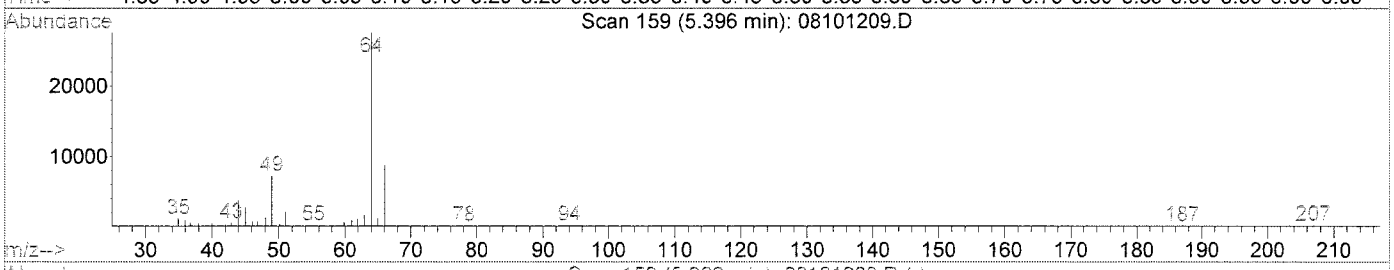
MNM 8/13/12

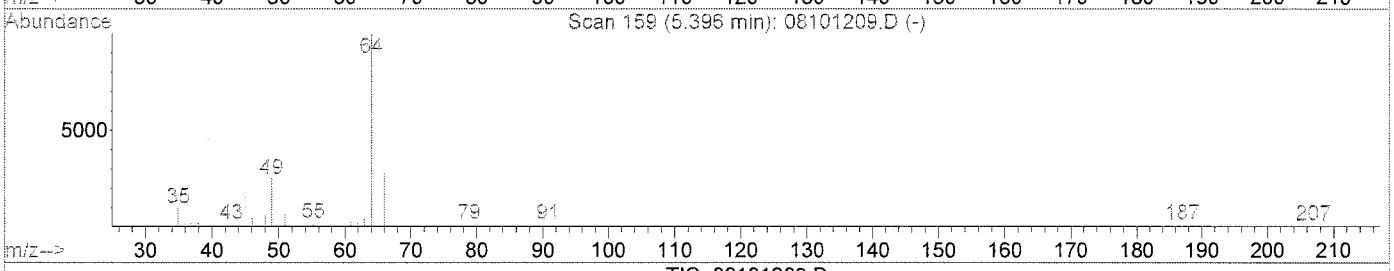
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

(2) Ethanol (T)

5.40min 233.89ug/L m

response 6632

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	60.55
0.00	0.00	0.00
0.00	0.00	0.00

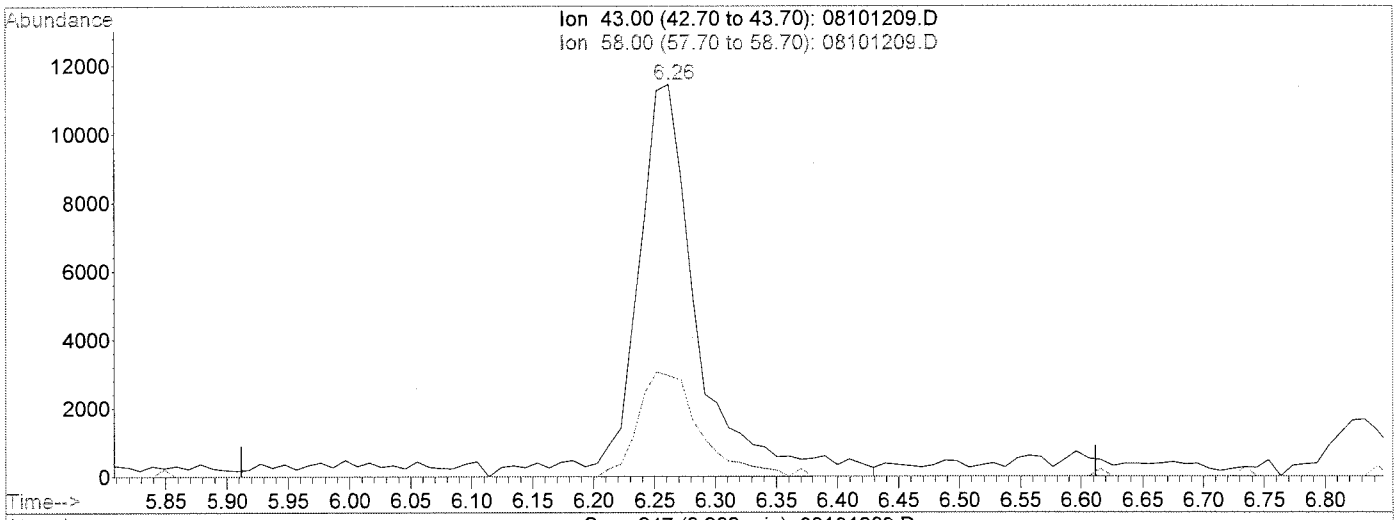
8/13/12

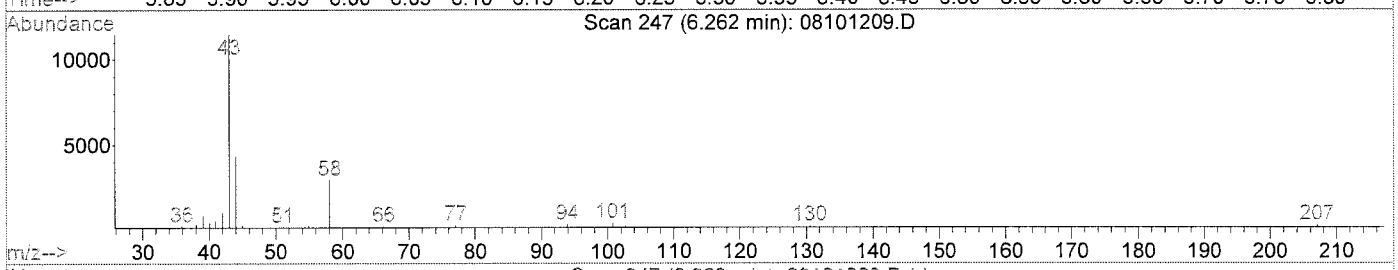
MNM 8/13/12

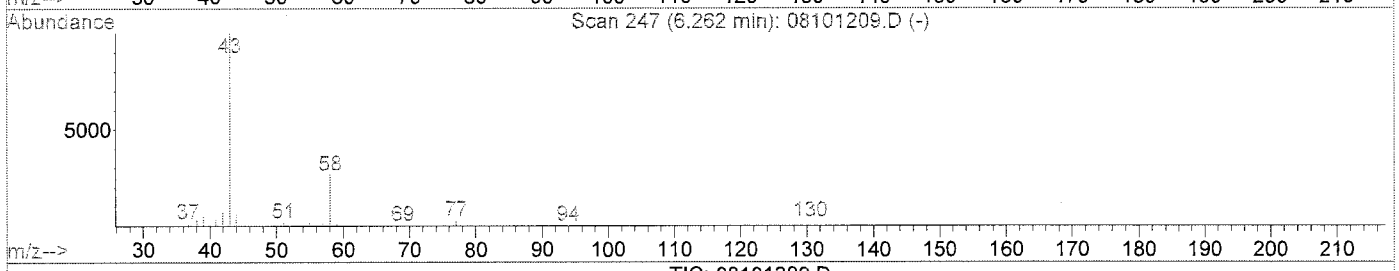
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:23 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 33.65ug/L

response 39847

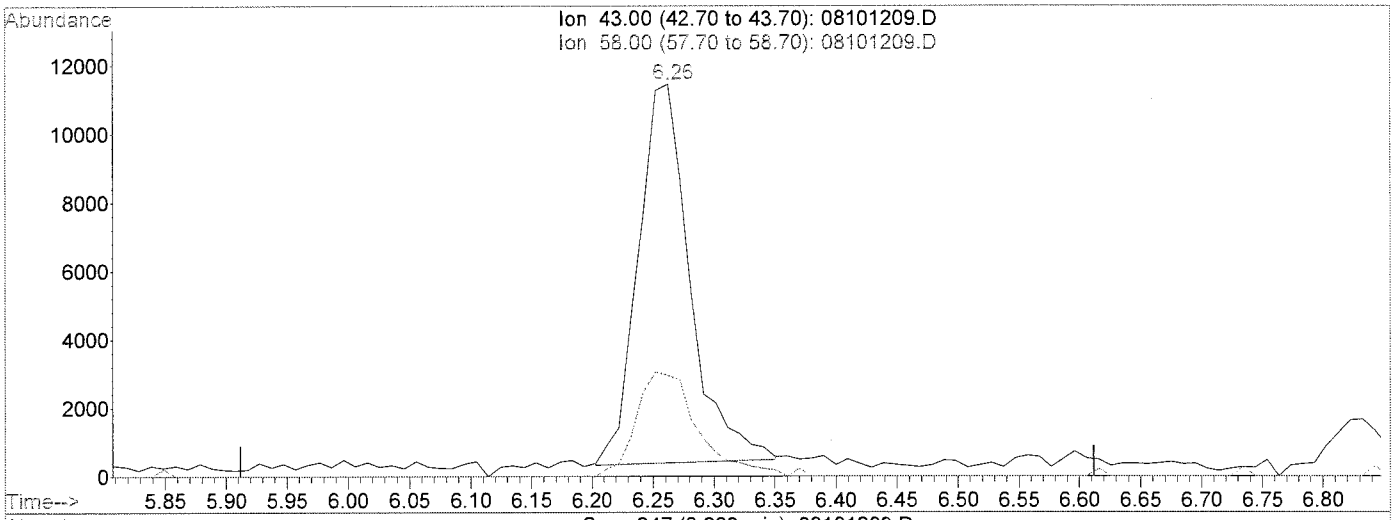
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.64
0.00	0.00	0.00
0.00	0.00	0.00

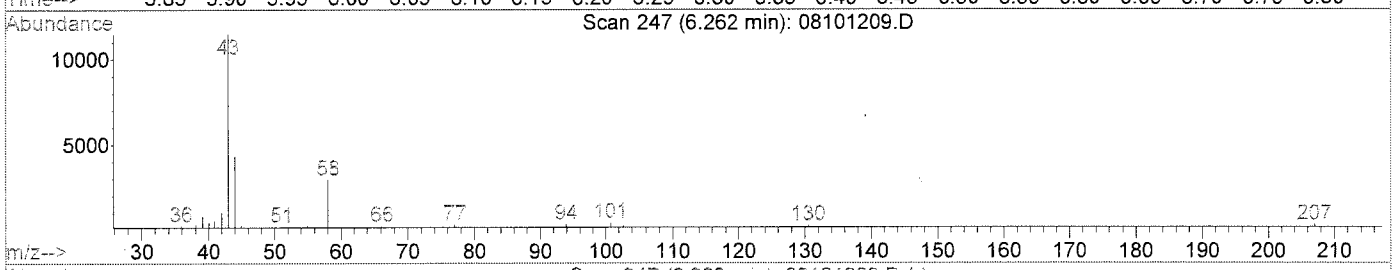
BL MM 8/13/12

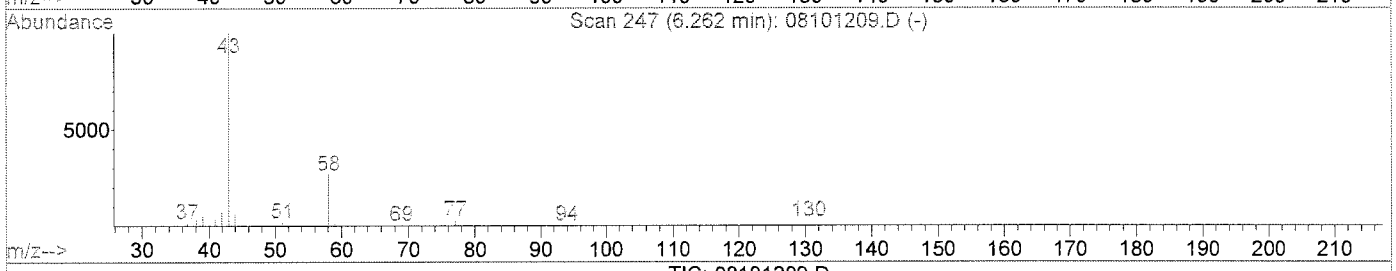
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101209.D

8/13/12

(12) Acetone (T)

6.26min 27.26ug/L m

response 32282

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	32.89
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	52594	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	281321	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	390934	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	273128	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	125555	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	120916	24.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.32%	
48) Toluene-d8	13.32	98	387904	25.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.52%	
62) 4-Bromofluorobenzene	16.95	95	104965	24.87 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.48%	

Target Compounds					Qvalue
2) Ethanol	5.40	45	6632m	233.89 ug/L	
3) tert-Butanol (TBA)	6.83	59	39356	127.92 ug/L	100
5) Dichlorodifluoromethane	4.11	85	259999	25.19 ug/L	100
6) Chloromethane	4.35	50	249108	24.80 ug/L	100
7) Vinyl Chloride	4.63	62	234281	25.48 ug/L	100
8) 1,3-Butadiene	4.79	54	127157	25.57 ug/L	100
9) Bromomethane	5.19	94	136870	24.38 ug/L	100
10) Chloroethane	5.38	64	115028	25.23 ug/L	100
11) Trichlorofluoromethane	6.11	101	203736	25.07 ug/L	100
12) Acetone	6.26	43	32282m	27.26 ug/L	
13) Iodomethane	6.86	142	233911	24.63 ug/L	100
14) 1,1-Dichloroethene	6.81	96	132114	23.36 ug/L	100
15) Methylene Chloride	7.00	84	120484	23.93 ug/L	100
16) Freon 113	7.07	101	146166	24.95 ug/L	100
17) Carbon disulfide	7.29	76	465019	25.28 ug/L	100
18) trans-1,2-Dichloroethene	7.87	96	156993	23.93 ug/L	100
19) MTBE	8.00	73	227954	24.58 ug/L	100
20) 1,1-Dichloroethane	8.18	63	249879	24.53 ug/L	100
21) Vinyl Acetate	8.34	43	179194	24.82 ug/L	100
22) n-Hexane	8.69	86	38470	23.89 ug/L	100
23) 2-Butanone (MEK)	8.73	72	10850	26.78 ug/L #	100
24) Diisopropyl Ether (DIPE)	8.74	45	414456	24.10 ug/L	100
25) cis-1,2-Dichloroethene	8.91	96	143999	24.12 ug/L	100
26) Bromochloromethane	9.11	128	58383	24.63 ug/L	100
27) Chloroform	9.17	83	223471	25.08 ug/L	100
28) 2,2-Dichloropropane	9.27	77	163680	24.27 ug/L	100
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	298010	24.00 ug/L	100
31) Tetrahydrofuran	9.60	72	8067	21.89 ug/L	100
32) 1,2-Dichloroethane	10.01	62	105341	24.51 ug/L	100
33) 1,1,1-Trichloroethane	10.14	97	190354	25.51 ug/L	100
34) (TAME) tert-Amyl methyl et	10.86	73	241539	24.14 ug/L	100
36) 1,1-Dichloropropene	10.37	75	205389	24.57 ug/L	100
37) Carbon Tetrachloride	10.61	117	164083	25.03 ug/L	100
38) Benzene	10.66	78	497157	24.92 ug/L	100
39) Dibromomethane	11.39	93	58226	24.72 ug/L	100
40) 1,2-Dichloropropane	11.44	63	118189	24.87 ug/L	100

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:50 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	140936	25.20 ug/L	100
42) Bromodichloromethane	11.55	83	140799	25.74 ug/L	100
43) 2-Chlorovinylethylether	12.08	63	44348	24.69 ug/L	100
44) cis-1,3-Dichloropropene	12.39	75	164809	25.84 ug/L	100
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	66778	23.32 ug/L	100
46) trans-1,3-Dichloropropene	12.95	75	123650	25.49 ug/L	100
47) 1,1,2-Trichloroethane	13.17	97	72275	26.13 ug/L	100
49) Toluene	13.42	92	282282	24.88 ug/L	100
51) 1,3-Dichloropropane	13.49	76	124333	25.64 ug/L	100
52) 2-Hexanone	13.69	43	53049	26.17 ug/L	100
53) Dibromochloromethane	13.86	129	92023	26.17 ug/L	100
54) 1,2-Dibromoethane	14.18	107	76183	25.85 ug/L	100
55) Tetrachloroethene	14.41	164	125279	26.04 ug/L	100
56) 1,1,1,2-Tetrachloroethane	15.21	131	102745	26.65 ug/L	100
57) Chlorobenzene	15.32	112	287853	25.67 ug/L	100
58) Ethylbenzene	15.59	91	512045	26.15 ug/L	100
59) m,p-Xylenes	15.84	106	195904	26.22 ug/L	100
60) Styrene	16.29	104	271388	27.12 ug/L	100
61) o-Xylene	16.39	106	178278	25.82 ug/L	100
64) Bromoform	16.01	173	52543	24.31 ug/L	100
65) 1,1,2,2-Tetrachloroethane	16.39	83	80822	23.97 ug/L	100
66) 1,2,3-Trichloropropane	16.59	110	19363	23.82 ug/L	100
67) trans-1,4-Dichloro-2-buten	16.62	53	18848	22.87 ug/L	100
68) Isopropylbenzene	16.89	105	450007	24.00 ug/L	100
69) Bromobenzene	17.25	156	113170	24.77 ug/L	100
70) n-Propylbenzene	17.50	91	579703	24.35 ug/L	100
71) 2-Chlorotoluene	17.64	91	304359	23.65 ug/L	100
72) 4-Chlorotoluene	17.75	91	297241	23.61 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	362766	24.80 ug/L	100
74) tert-Butylbenzene	18.30	119	324105	24.81 ug/L	100
75) 1,2,4-Trimethylbenzene	18.46	105	337490	24.39 ug/L	100
76) sec-Butylbenzene	18.61	105	528569	25.01 ug/L	100
77) 1,3-Dichlorobenzene	18.71	146	201590	24.24 ug/L	100
78) 1,4-Dichlorobenzene	18.81	146	196096	24.05 ug/L	100
79) p-Isopropyltoluene	18.85	119	400272	25.27 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	166930	24.66 ug/L	100
81) n-Butylbenzene	19.39	91	388212	25.56 ug/L	100
82) 1,2-Dibromo-3-chloropropan	19.86	75	9202	27.08 ug/L	100
83) 1,2,4-Trichlorobenzene	21.51	180	95814	26.39 ug/L	100
84) Napthalene	21.82	128	152397	26.24 ug/L	100
85) Hexachlorobutadiene	21.88	225	71752	28.94 ug/L	100
86) 1,2,3-Trichlorobenzene	22.09	180	77645	26.44 ug/L	100

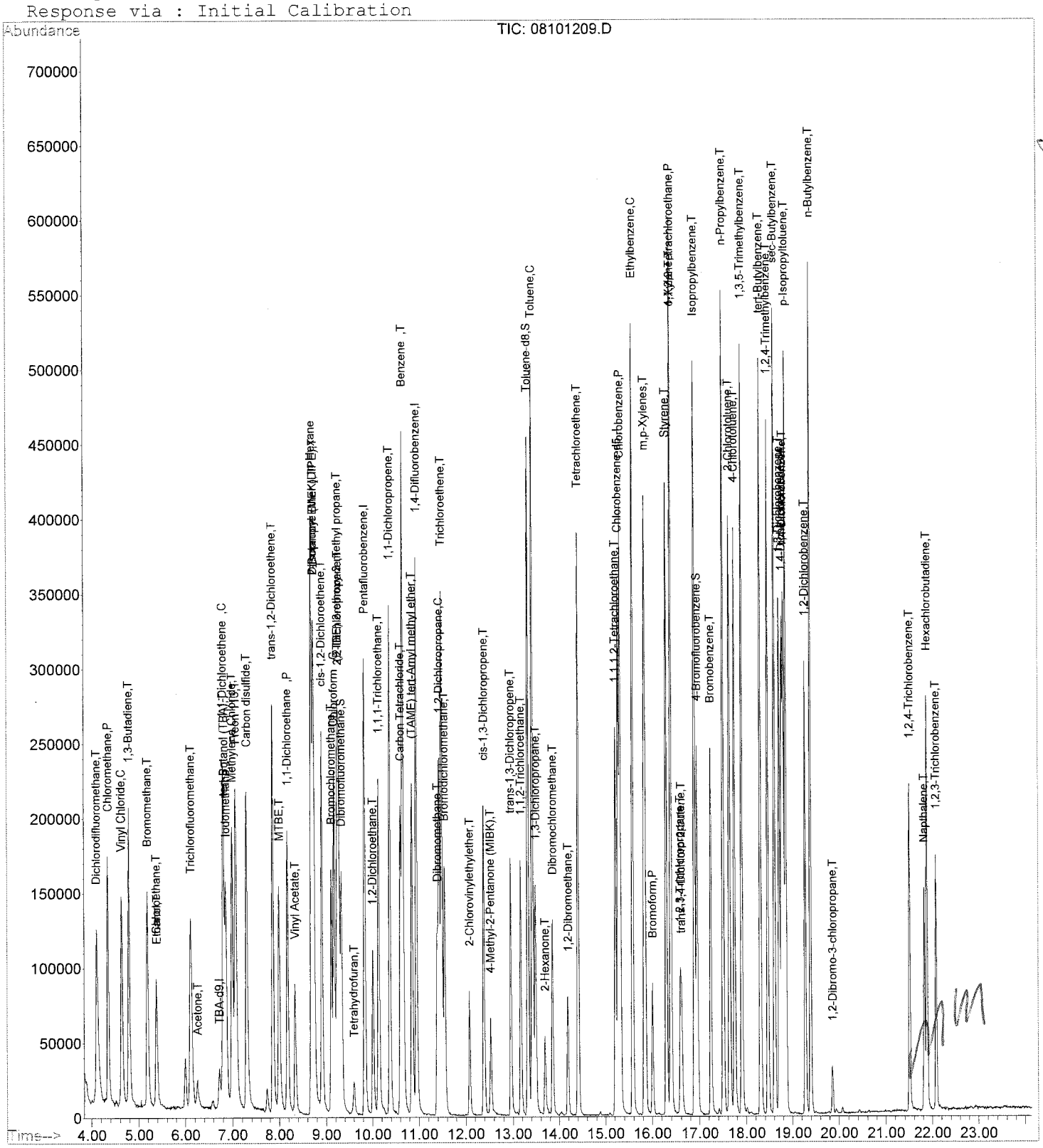
MNM

(#) = qualifier out of range (m) = manual integration
08101209.D 081012.M Mon Aug 13 05:24:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D Vial: 9
Acq On : 10 Aug 2012 10:46 am Operator: MNM
Sample : 25 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:24 2012 Quant Results File: 081012.RES

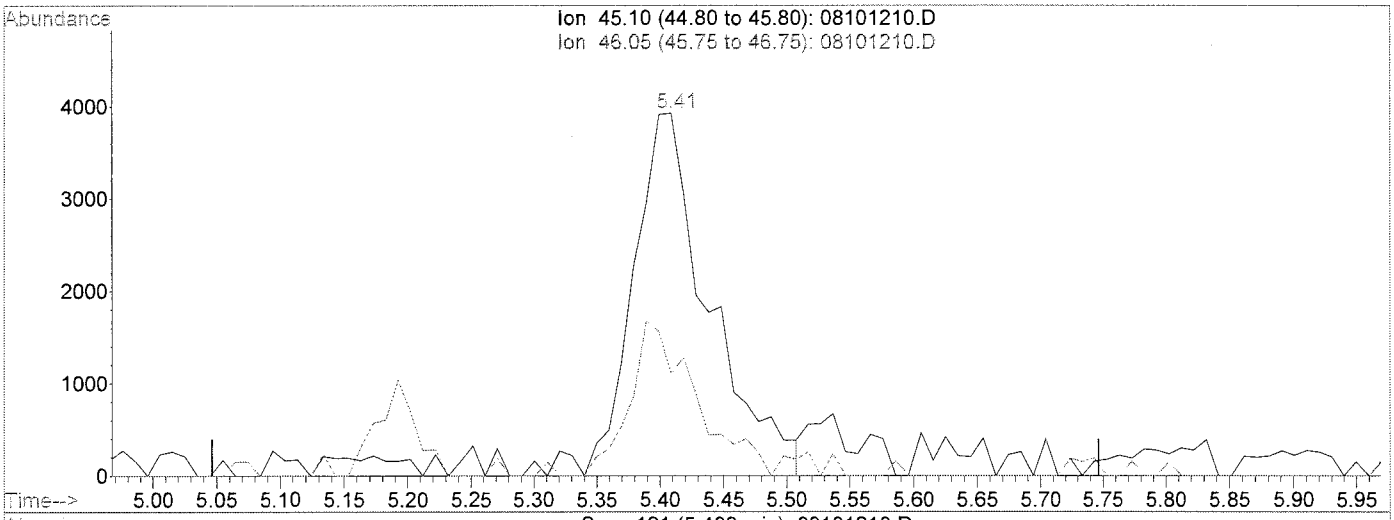
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

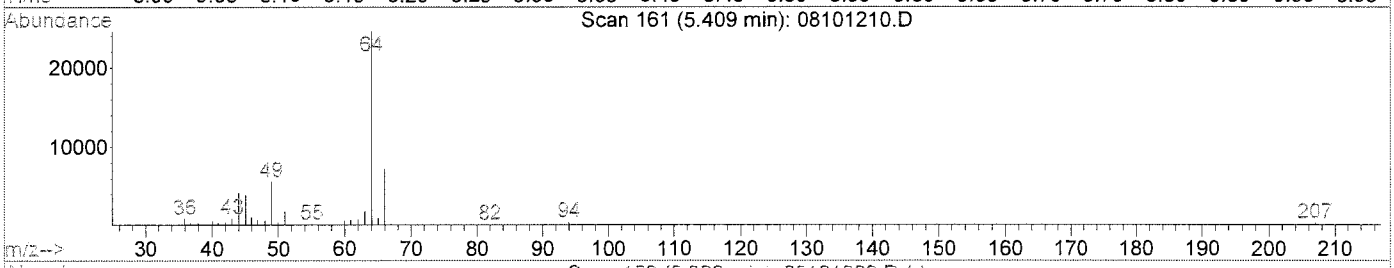


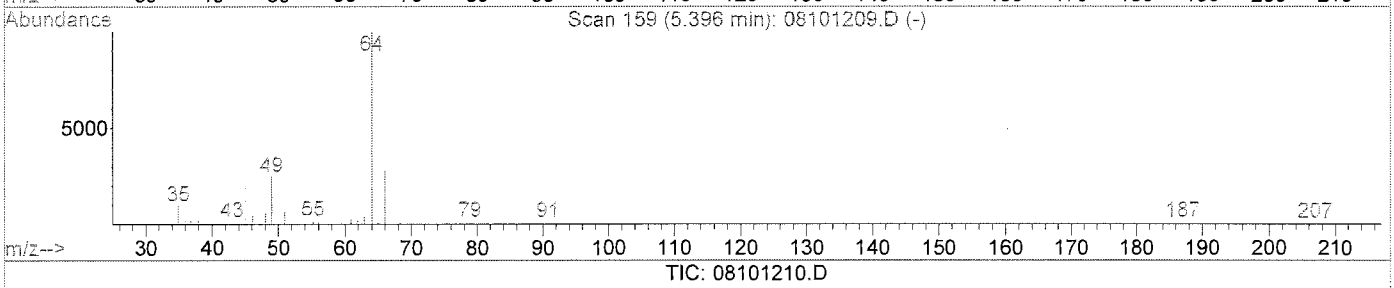
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(2) Ethanol (T)

5.41min 570.69ug/L

response 16581

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	36.61#
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

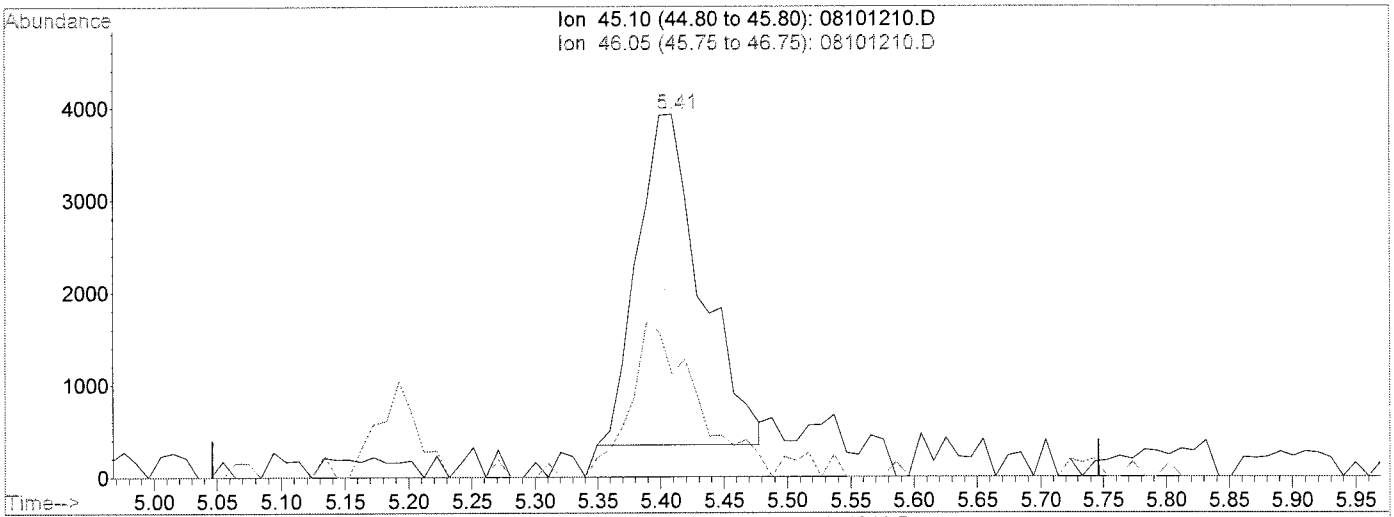
B

BL MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(2) Ethanol (T)

5.41min 429.61ug/L m

response 12482

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	48.64
0.00	0.00	0.00
0.00	0.00	0.00

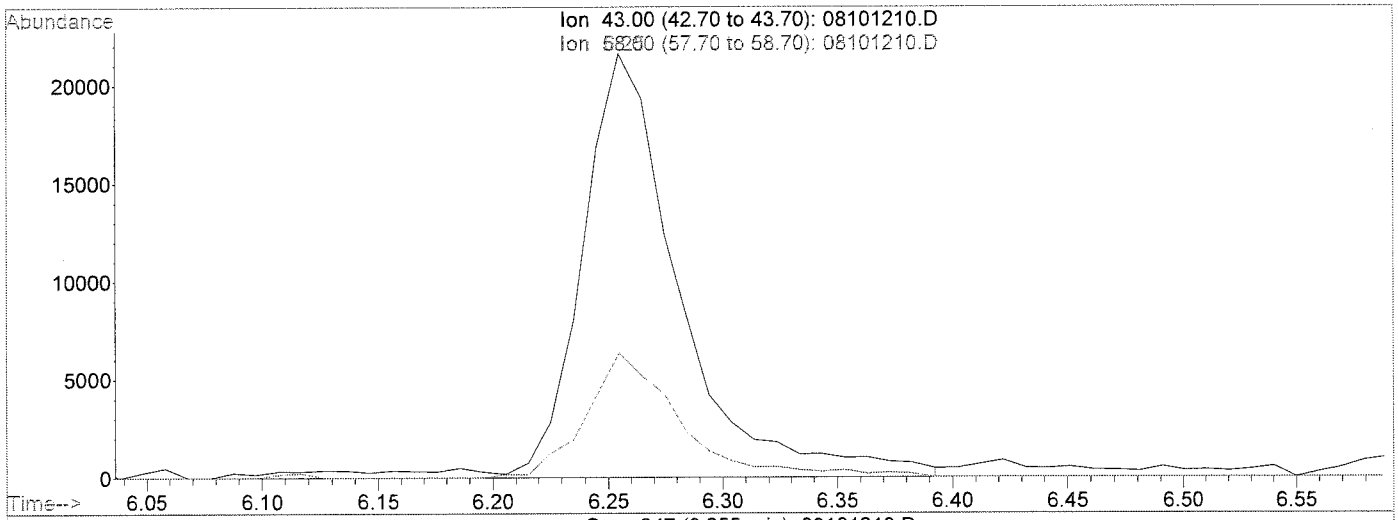
8/13/12

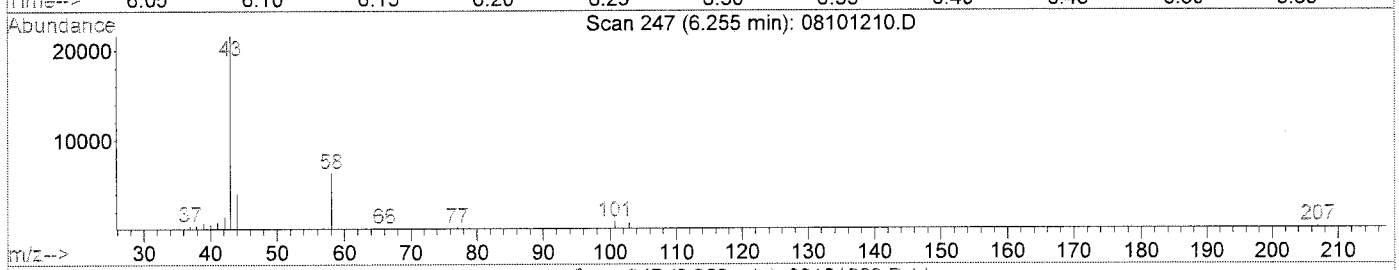
MNM 8/13/12

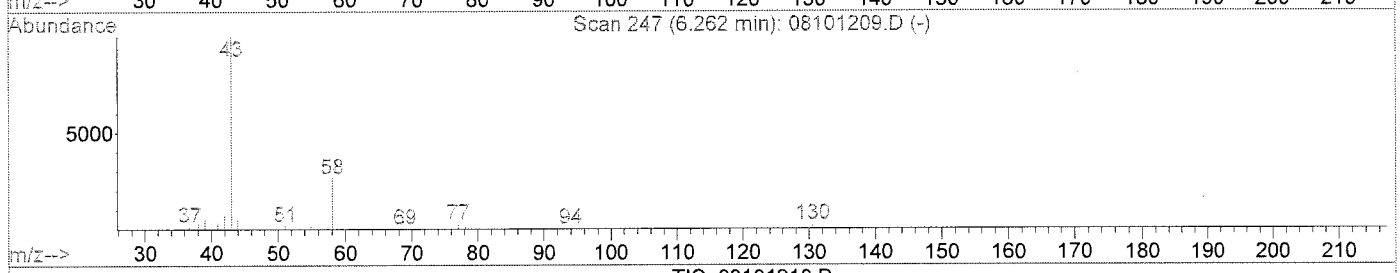
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:25 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

8/13/12

(12) Acetone (T)

6.25min 56.11ug/L

response 63143

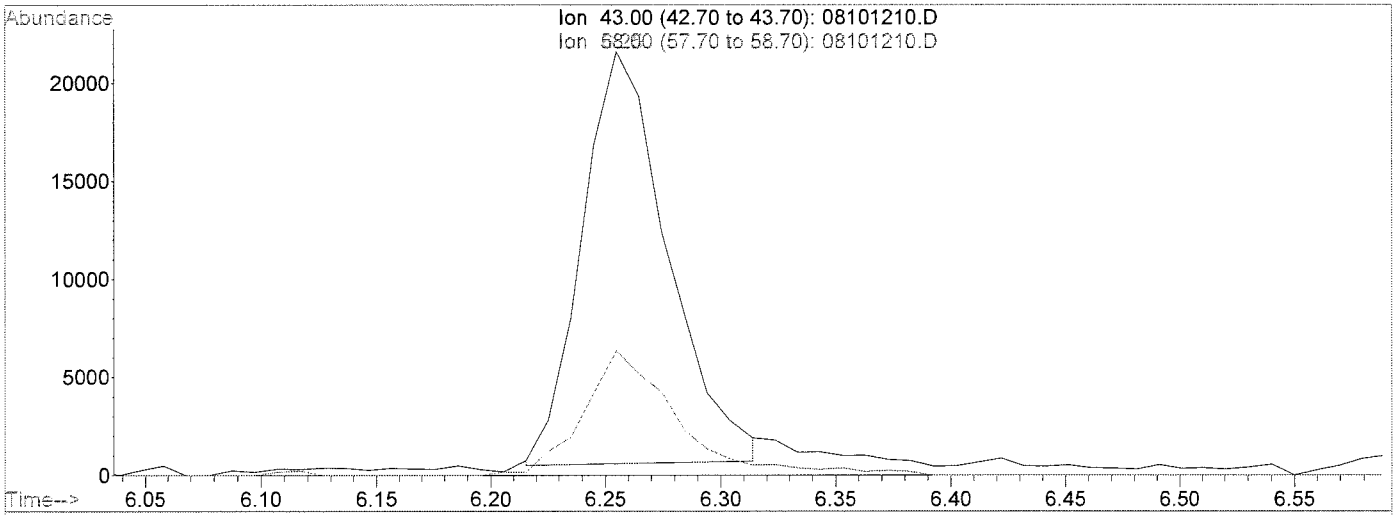
Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.63
0.00	0.00	0.00
0.00	0.00	0.00

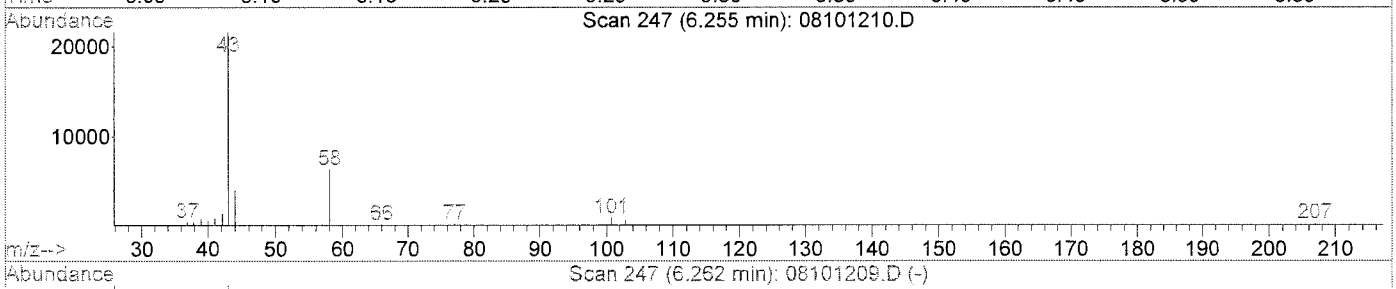
MNM 8/13/12

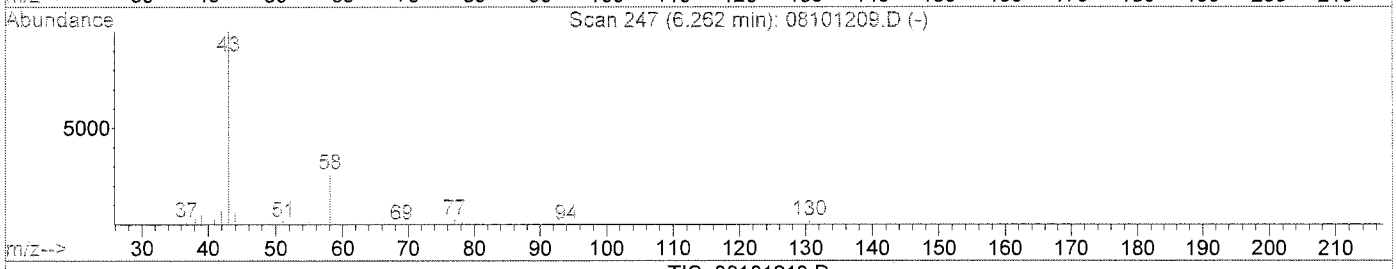
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101210.D

(12) Acetone (T)

6.25min 48.26ug/L m

response 54317

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.29
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

A MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	53891	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	267334	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	373187	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	269409	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	118340	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	218809	46.80 ug/L	0.00
Spiked Amount 25.000			Recovery	= 187.20%	
48) Toluene-d8	13.33	98	687603	46.66 ug/L	0.00
Spiked Amount 25.000			Recovery	= 186.64%	
62) 4-Bromofluorobenzene	16.96	95	191956	46.11 ug/L	0.00
Spiked Amount 25.000			Recovery	= 184.44%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	12482m	429.61 ug/L	
3) tert-Butanol (TBA)	6.84	59	71411	226.53 ug/L	99
5) Dichlorodifluoromethane	4.11	85	495471	50.51 ug/L	99
6) Chloromethane	4.36	50	463586	48.56 ug/L	98
7) Vinyl Chloride	4.63	62	430153	49.24 ug/L	99
8) 1,3-Butadiene	4.79	54	236893	50.13 ug/L	99
9) Bromomethane	5.19	94	266149	49.88 ug/L	99
10) Chloroethane	5.38	64	224829	51.89 ug/L	97
11) Trichlorofluoromethane	6.12	101	394660	51.11 ug/L	100
12) Acetone	6.25	43	54317m	48.26 ug/L	
13) Iodomethane	6.86	142	447731	49.61 ug/L	100
14) 1,1-Dichloroethene	6.81	96	253470	47.16 ug/L	99
15) Methylene Chloride	7.00	84	232960	48.68 ug/L	98
16) Freon 113	7.07	101	270520	48.59 ug/L	97
17) Carbon disulfide	7.30	76	898748	51.41 ug/L	99
18) trans-1,2-Dichloroethene	7.86	96	303726	48.73 ug/L	99
19) MTBE	8.01	73	432429	49.07 ug/L	100
20) 1,1-Dichloroethane	8.18	63	476710	49.25 ug/L	99
21) Vinyl Acetate	8.34	43	345852	50.41 ug/L	99
22) n-Hexane	8.69	86	77107	50.40 ug/L	89
23) 2-Butanone (MEK)	8.72	72	17742	46.08 ug/L #	16
24) Diisopropyl Ether (DIPE)	8.73	45	798842	48.89 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	279884	49.33 ug/L	98
26) Bromochloromethane	9.12	128	116879	51.89 ug/L	92
27) Chloroform	9.18	83	417208	49.27 ug/L	99
28) 2,2-Dichloropropane	9.27	77	310117	48.38 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	574188	48.67 ug/L	100
31) Tetrahydrofuran	9.60	72	16252	46.41 ug/L	89
32) 1,2-Dichloroethane	10.01	62	203344	49.78 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	353898	49.91 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	466510	49.07 ug/L	99
36) 1,1-Dichloropropene	10.38	75	398689	49.96 ug/L	98
37) Carbon Tetrachloride	10.61	117	317819	50.79 ug/L	99
38) Benzene	10.66	78	947346	49.75 ug/L	100
39) Dibromomethane	11.39	93	114917	51.12 ug/L	98
40) 1,2-Dichloropropane	11.44	63	221264	48.77 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.49	95	265281	49.69 ug/L	99
42) Bromodichloromethane	11.55	83	271789	52.05 ug/L	99
43) 2-Chlorovinylethylether	12.09	63	88468	51.59 ug/L	98
44) cis-1,3-Dichloropropene	12.38	75	321115	52.74 ug/L	99
45) 4-Methyl-2-Pentanone (MIBK	12.53	43	130972	47.91 ug/L	98
46) trans-1,3-Dichloropropene	12.95	75	237953	51.39 ug/L	99
47) 1,1,2-Trichloroethane	13.17	97	137777	52.19 ug/L	97
49) Toluene	13.42	92	546857	50.49 ug/L	99
51) 1,3-Dichloropropane	13.48	76	244280	51.06 ug/L	99
52) 2-Hexanone	13.68	43	100587	50.30 ug/L	96
53) Dibromochloromethane	13.85	129	183912	53.02 ug/L	100
54) 1,2-Dibromoethane	14.18	107	142282	48.95 ug/L	97
55) Tetrachloroethene	14.41	164	226510	47.72 ug/L	98
56) 1,1,1,2-Tetrachloroethane	15.22	131	186933	49.15 ug/L	98
57) Chlorobenzene	15.32	112	554587	50.15 ug/L	98
58) Ethylbenzene	15.58	91	975473	50.50 ug/L	100
59) m,p-Xylenes	15.85	106	377996	51.28 ug/L	99
60) Styrene	16.30	104	514481	52.12 ug/L	99
61) o-Xylene	16.40	106	349209	51.26 ug/L	97
64) Bromoform	16.01	173	108591	53.31 ug/L	98
65) 1,1,2,2-Tetrachloroethane	16.39	83	156473	49.23 ug/L	99
66) 1,2,3-Trichloropropane	16.59	110	37829	49.38 ug/L	98
67) trans-1,4-Dichloro-2-buten	16.62	53	35143	44.24 ug/L	89
68) Isopropylbenzene	16.90	105	857226	48.50 ug/L	98
69) Bromobenzene	17.25	156	212979	49.45 ug/L	97
70) n-Propylbenzene	17.51	91	1098531	48.96 ug/L	100
71) 2-Chlorotoluene	17.65	91	577687	47.62 ug/L	99
72) 4-Chlorotoluene	17.75	91	568985	47.96 ug/L	100
73) 1,3,5-Trimethylbenzene	17.91	105	676601	49.08 ug/L	100
74) tert-Butylbenzene	18.30	119	601956	48.89 ug/L	98
75) 1,2,4-Trimethylbenzene	18.46	105	638890	49.00 ug/L	99
76) sec-Butylbenzene	18.61	105	960020	48.19 ug/L	100
77) 1,3-Dichlorobenzene	18.72	146	388318	49.55 ug/L	98
78) 1,4-Dichlorobenzene	18.81	146	375463	48.86 ug/L	98
79) p-Isopropyltoluene	18.86	119	742254	49.72 ug/L	100
80) 1,2-Dichlorobenzene	19.28	146	317732	49.79 ug/L	100
81) n-Butylbenzene	19.39	91	715599	49.99 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	16441	53.36 ug/L	98
83) 1,2,4-Trichlorobenzene	21.51	180	170461	49.82 ug/L	97
84) Napthalene	21.83	128	258045	47.14 ug/L	99
85) Hexachlorobutadiene	21.88	225	111824	50.23 ug/L	98
86) 1,2,3-Trichlorobenzene	22.08	180	132257	49.90 ug/L	96

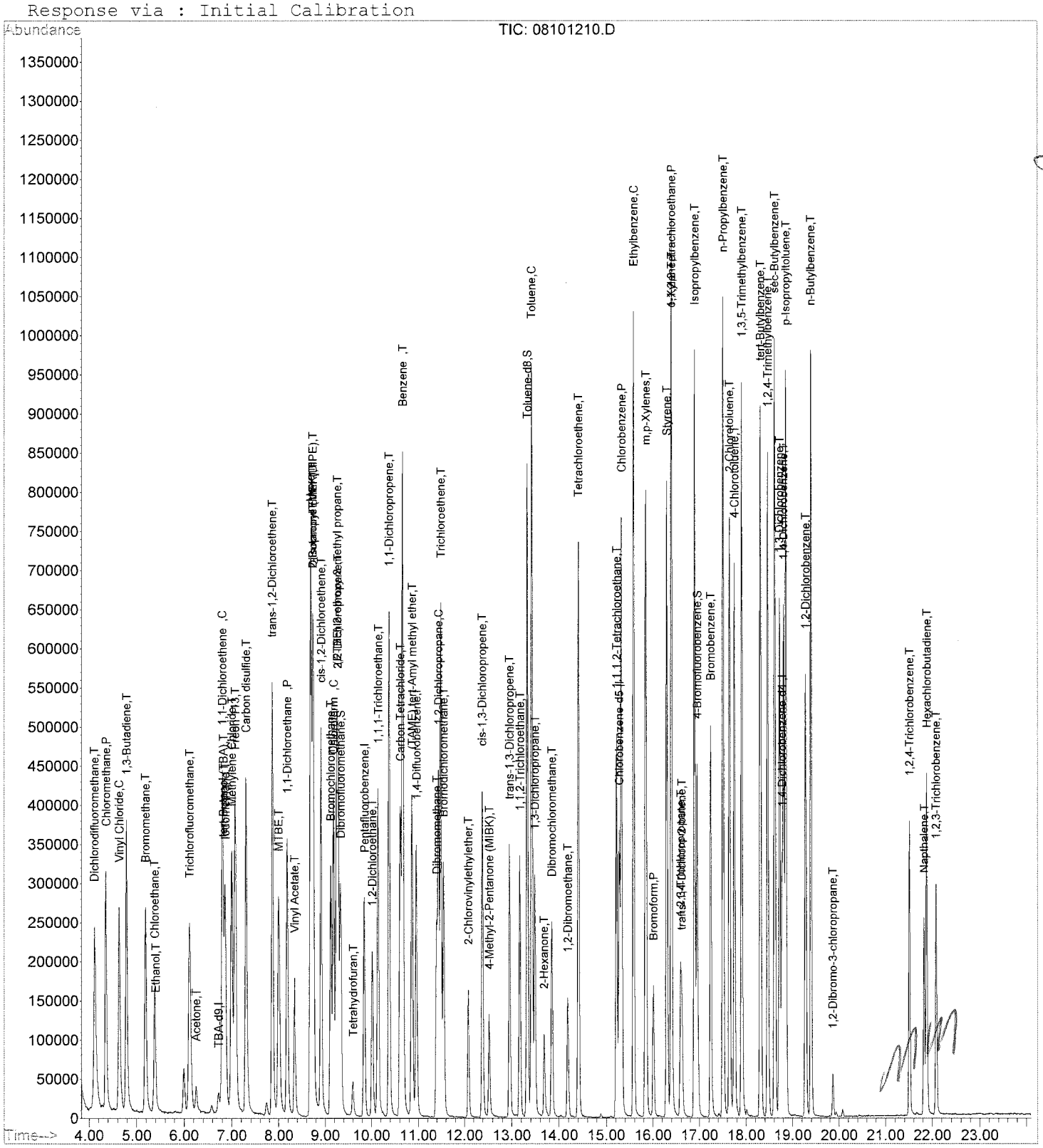
MNM

(#) = qualifier out of range (m) = manual integration
08101210.D 081012.M Mon Aug 13 05:26:16 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D Vial: 10
Acq On : 10 Aug 2012 11:19 am Operator: MNM
Sample : 50 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: 081012.RES

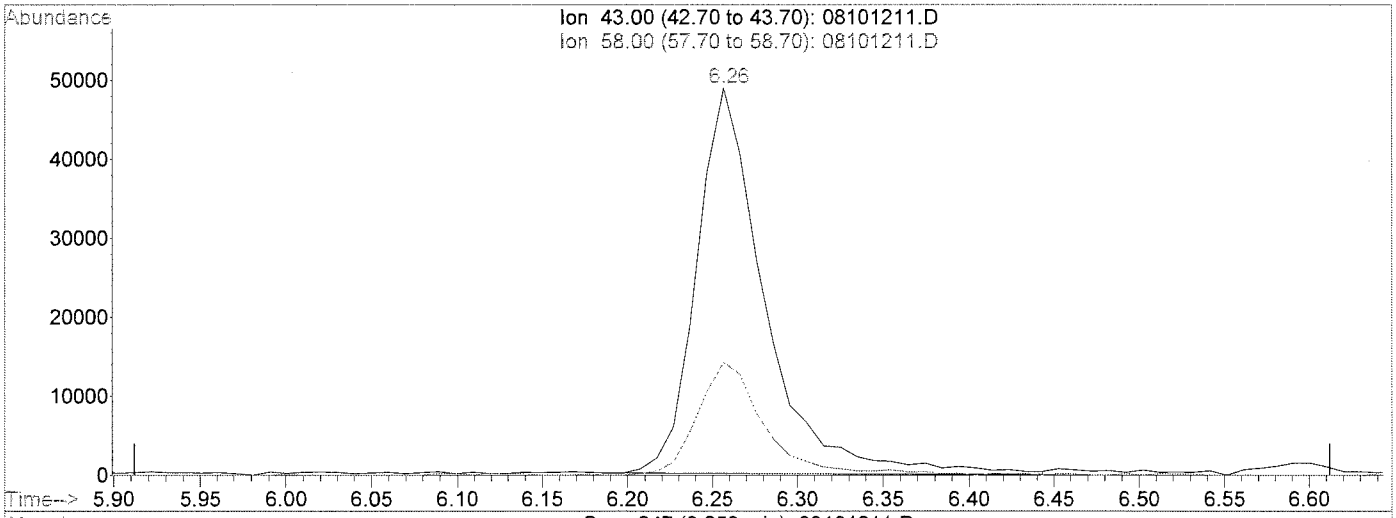
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

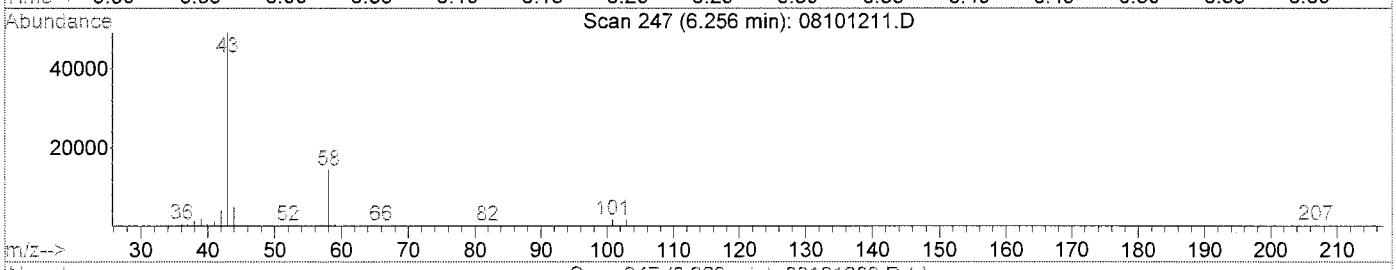


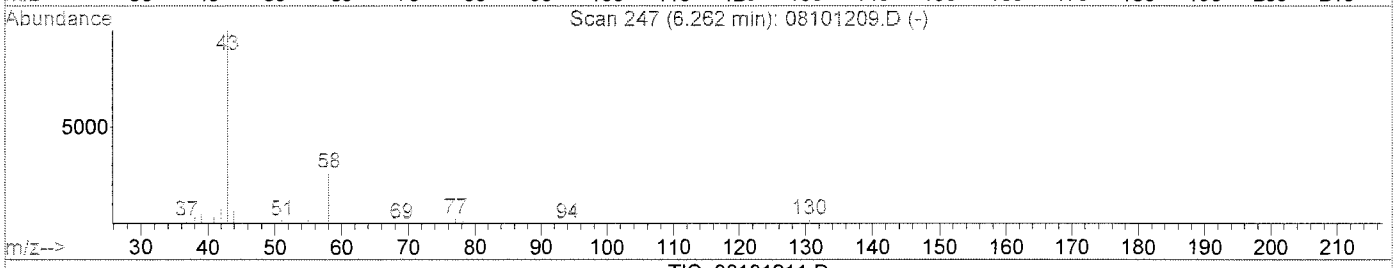
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:26 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101211.D

(12) Acetone (T)

6.26min 119.31ug/L

response 136818

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	28.86
0.00	0.00	0.00
0.00	0.00	0.00

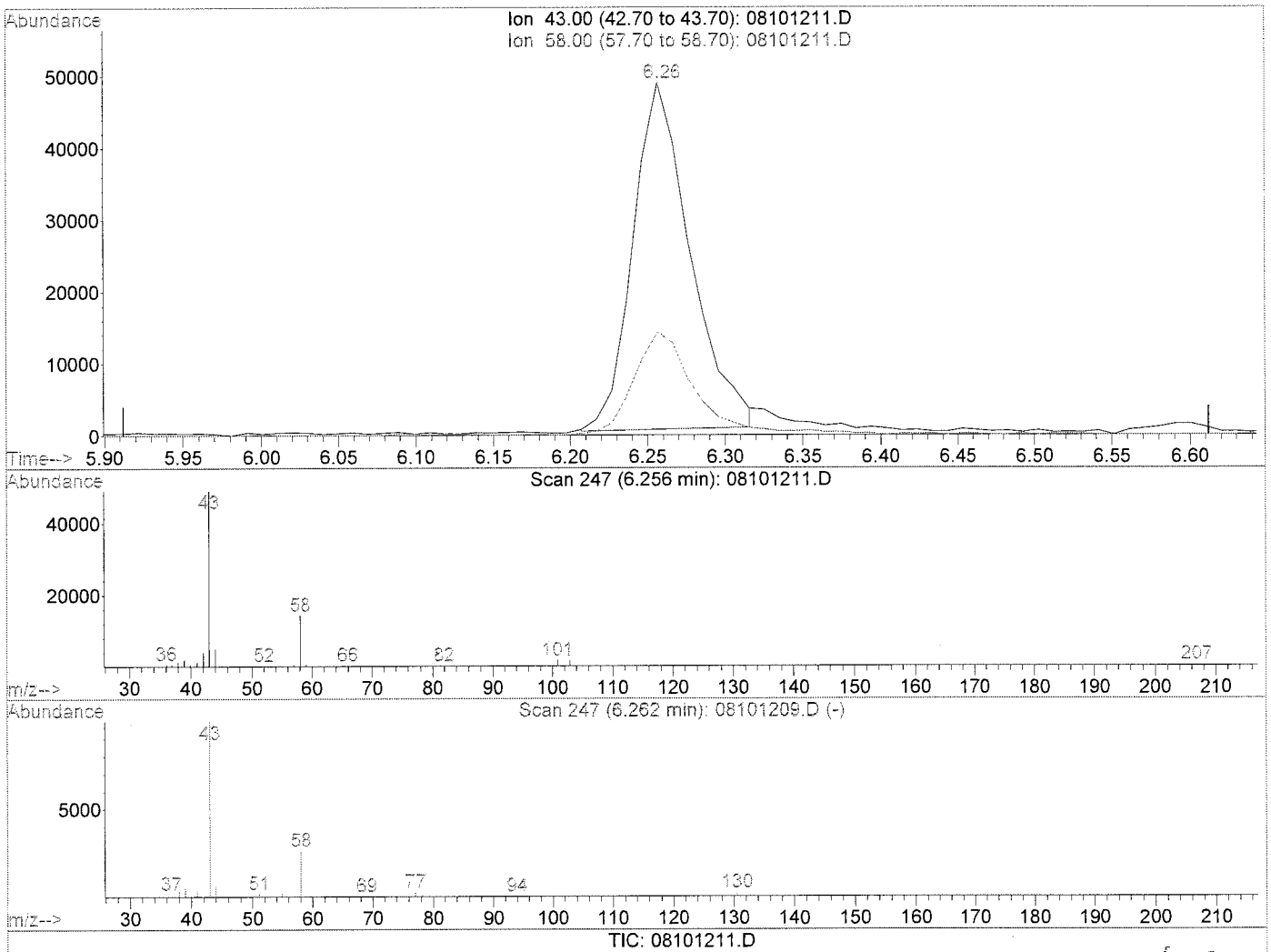
8/13/12

MM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



(12) Acetone (T)

6.26min 107.84ug/L m

response 123668

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.93
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	59905	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	272403	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	384724	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	272534	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	114810	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.34	113	462369	97.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 388.20%	
48) Toluene-d8	13.33	98	1402084	92.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 369.12%	
62) 4-Bromofluorobenzene	16.96	95	412368	97.91 ug/L	0.00
Spiked Amount 25.000			Recovery	= 391.64%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	34443	1066.46 ug/L	82
3) tert-Butanol (TBA)	6.84	59	168336	480.39 ug/L	99
5) Dichlorodifluoromethane	4.11	85	964320	96.48 ug/L	99
6) Chloromethane	4.35	50	890682	91.56 ug/L	100
7) Vinyl Chloride	4.63	62	798541	89.71 ug/L	100
8) 1,3-Butadiene	4.78	54	462070	95.97 ug/L	99
9) Bromomethane	5.18	94	525441	96.65 ug/L	100
10) Chloroethane	5.38	64	441624	100.03 ug/L	99
11) Trichlorofluoromethane	6.11	101	763247	97.00 ug/L	99
12) Acetone	6.26	43	123668m	107.84 ug/L	
13) Iodomethane	6.87	142	901113	97.99 ug/L	98
14) 1,1-Dichloroethene	6.81	96	508761	92.90 ug/L	97
15) Methylene Chloride	7.00	84	470851	96.56 ug/L	99
16) Freon 113	7.07	101	528427	93.16 ug/L	97
17) Carbon disulfide	7.30	76	1756954	98.64 ug/L	97
18) trans-1,2-Dichloroethene	7.86	96	597492	94.07 ug/L	98
19) MTBE	8.01	73	913608	101.74 ug/L	100
20) 1,1-Dichloroethane	8.18	63	943450	95.66 ug/L	99
21) Vinyl Acetate	8.34	43	745936	106.70 ug/L	100
22) n-Hexane	8.69	86	148544	95.28 ug/L	92
23) 2-Butanone (MEK)	8.73	72	42692	108.81 ug/L #	68
24) Diisopropyl Ether (DIPE)	8.74	45	1640732	98.54 ug/L	95
25) cis-1,2-Dichloroethene	8.91	96	568187	98.27 ug/L	97
26) Bromochloromethane	9.12	128	236072	102.86 ug/L	91
27) Chloroform	9.18	83	844569	97.89 ug/L	98
28) 2,2-Dichloropropane	9.28	77	597220	91.44 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	1203255	100.10 ug/L	99
31) Tetrahydrofuran	9.60	72	36606	102.58 ug/L	84
32) 1,2-Dichloroethane	10.01	62	408116	98.06 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	706415	97.76 ug/L	99
34) (TAME) tert-Amyl methyl et	10.86	73	1019295	105.21 ug/L	99
36) 1,1-Dichloropropene	10.38	75	752175	91.42 ug/L	99
37) Carbon Tetrachloride	10.61	117	629787	97.64 ug/L	99
38) Benzene	10.66	78	1918047	97.70 ug/L	99
39) Dibromomethane	11.39	93	240215	103.65 ug/L	98
40) 1,2-Dichloropropane	11.44	63	454008	97.06 ug/L	98

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

MM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	523897	95.19 ug/L	99
42)	Bromodichloromethane	11.55	83	571821	106.22 ug/L	99
43)	2-Chlorovinylethylether	12.09	63	190358	107.67 ug/L	99
44)	cis-1,3-Dichloropropene	12.38	75	663914	105.77 ug/L	99
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	294168	104.38 ug/L	98
46)	trans-1,3-Dichloropropene	12.95	75	509355	106.70 ug/L	99
47)	1,1,2-Trichloroethane	13.17	97	286704	105.34 ug/L	98
49)	Toluene	13.43	92	1076337	96.40 ug/L	98
51)	1,3-Dichloropropane	13.49	76	517001	106.83 ug/L	99
52)	2-Hexanone	13.68	43	235539	116.44 ug/L	97
53)	Dibromochloromethane	13.85	129	396223	112.92 ug/L	99
54)	1,2-Dibromoethane	14.18	107	308443	104.89 ug/L	98
55)	Tetrachloroethene	14.41	164	452394	94.22 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.22	131	371826	96.65 ug/L	96
57)	Chlorobenzene	15.33	112	1118631	99.99 ug/L	99
58)	Ethylbenzene	15.58	91	1923271	98.42 ug/L	100
59)	m,p-Xylenes	15.85	106	762608	102.28 ug/L	98
60)	Styrene	16.30	104	1032436	103.40 ug/L	99
61)	o-Xylene	16.40	106	651161	94.50 ug/L	98
64)	Bromoform	16.01	173	219950	111.30 ug/L	99
65)	1,1,2,2-Tetrachloroethane	16.40	83	302923	98.23 ug/L	98
66)	1,2,3-Trichloropropane	16.59	110	78214	105.23 ug/L	98
67)	trans-1,4-Dichloro-2-buten	16.62	53	79743	102.10 ug/L	91
68)	Isopropylbenzene	16.90	105	1628971	95.00 ug/L	99
69)	Bromobenzene	17.24	156	425714	101.89 ug/L	97
70)	n-Propylbenzene	17.51	91	2114087	97.12 ug/L	100
71)	2-Chlorotoluene	17.65	91	1126734	95.74 ug/L	100
72)	4-Chlorotoluene	17.75	91	1125554	97.79 ug/L	99
73)	1,3,5-Trimethylbenzene	17.91	105	1234343	92.30 ug/L	100
74)	tert-Butylbenzene	18.31	119	1083175	90.69 ug/L	99
75)	1,2,4-Trimethylbenzene	18.46	105	1176213	92.98 ug/L	100
76)	sec-Butylbenzene	18.61	105	1705621	88.25 ug/L	99
77)	1,3-Dichlorobenzene	18.72	146	699081	91.94 ug/L	98
78)	1,4-Dichlorobenzene	18.82	146	702424	94.23 ug/L	99
79)	p-Isopropyltoluene	18.86	119	1317395	90.97 ug/L	99
80)	1,2-Dichlorobenzene	19.28	146	538352	86.95 ug/L	99
81)	n-Butylbenzene	19.40	91	1266655	91.21 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	25380	90.22 ug/L	93
83)	1,2,4-Trichlorobenzene	21.50	180	271631	81.83 ug/L	98
84)	Napthalene	21.83	128	441804	83.19 ug/L	99
85)	Hexachlorobutadiene	21.89	225	166042	82.73 ug/L	96
86)	1,2,3-Trichlorobenzene	22.08	180	218534	91.95 ug/L	96

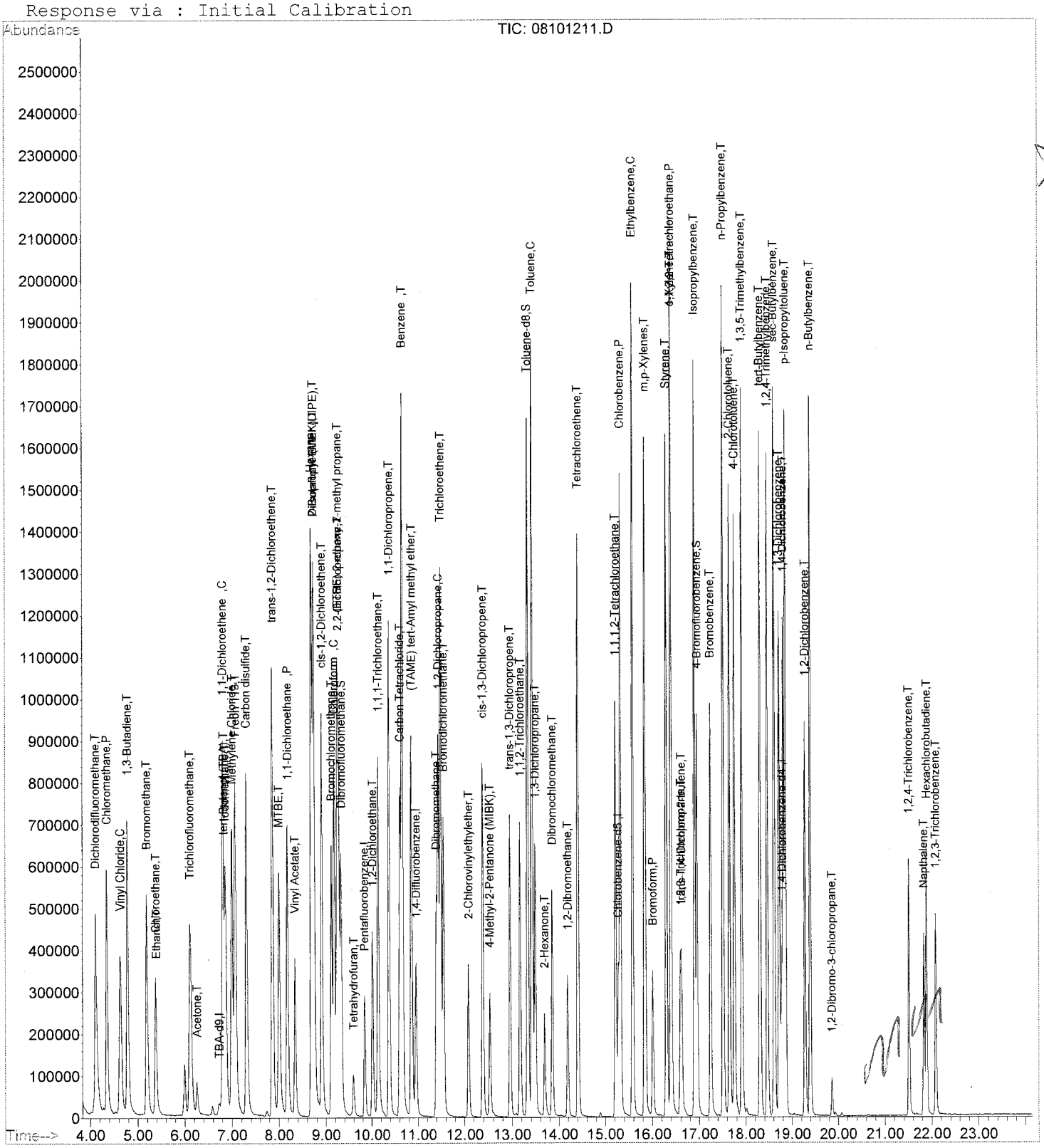
MM

(#) = qualifier out of range (m) = manual integration
08101211.D 081012.M Mon Aug 13 05:27:38 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D Vial: 11
Acq On : 10 Aug 2012 11:51 am Operator: MNM
Sample : 100 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: 081012.RES

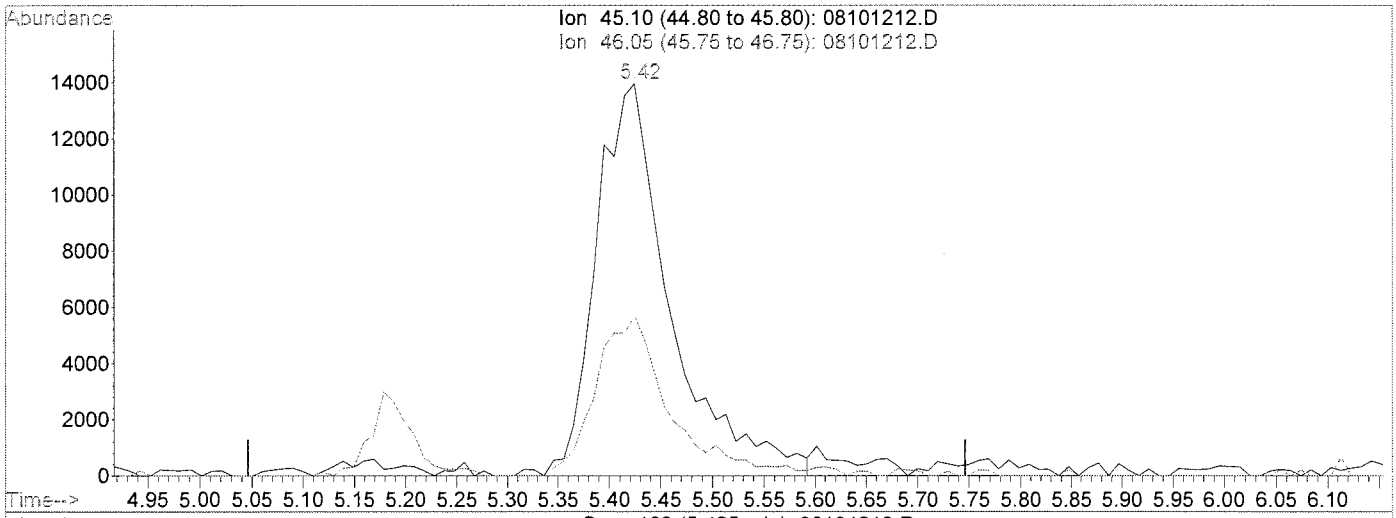
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

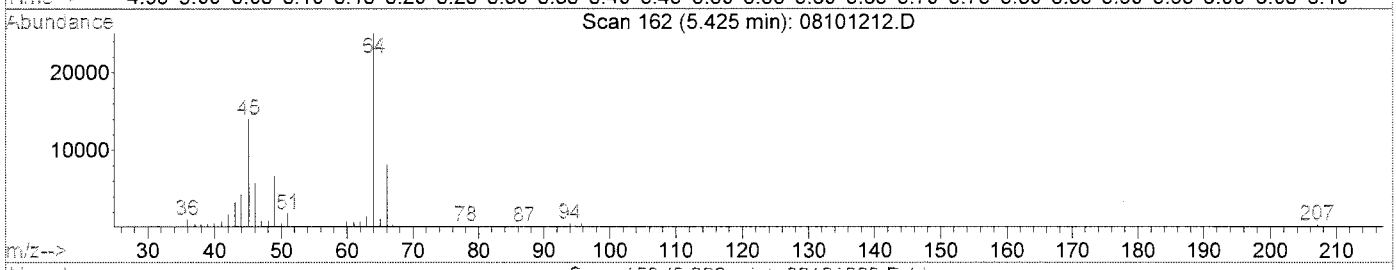


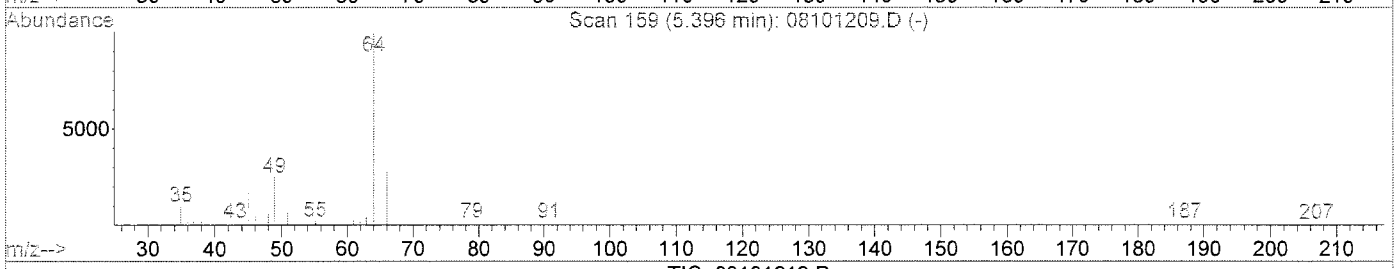
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:27 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(2) Ethanol (T)

5.42min 2703.85ug/L

response 70076

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	40.18
0.00	0.00	0.00
0.00	0.00	0.00

8/13/12

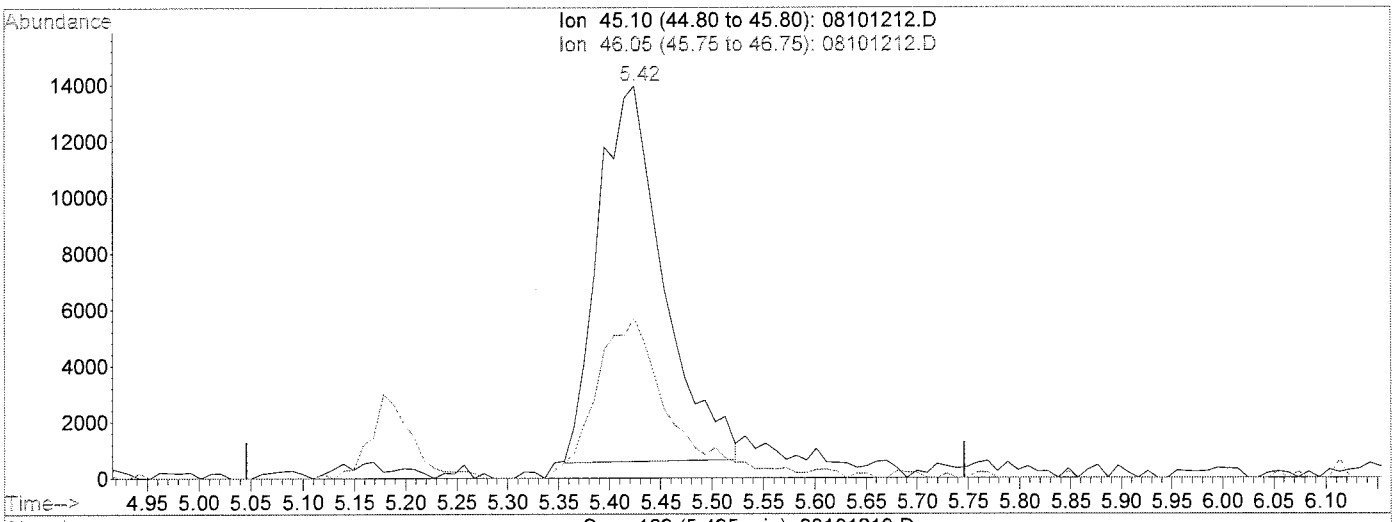
BL

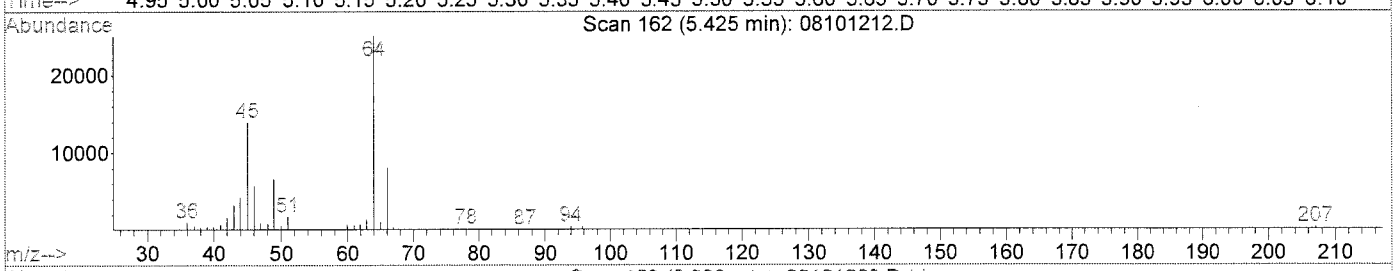
MM 8/13/12

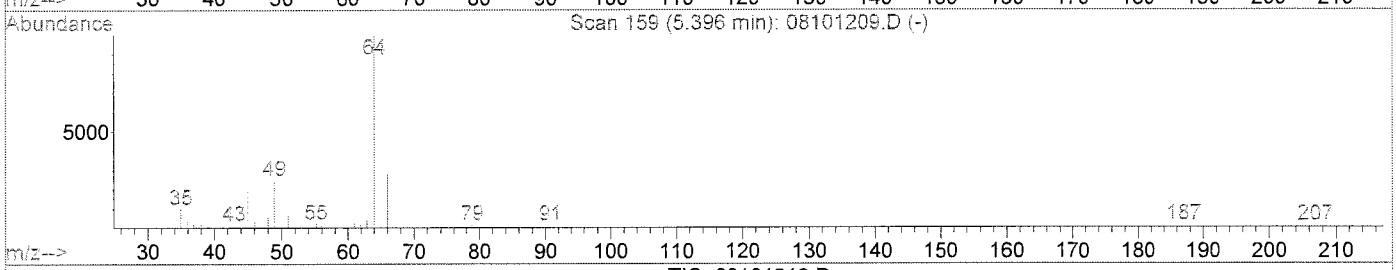
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

8/13/12

(2) Ethanol (T)

5.42min 2281.93ug/L m

response 59141

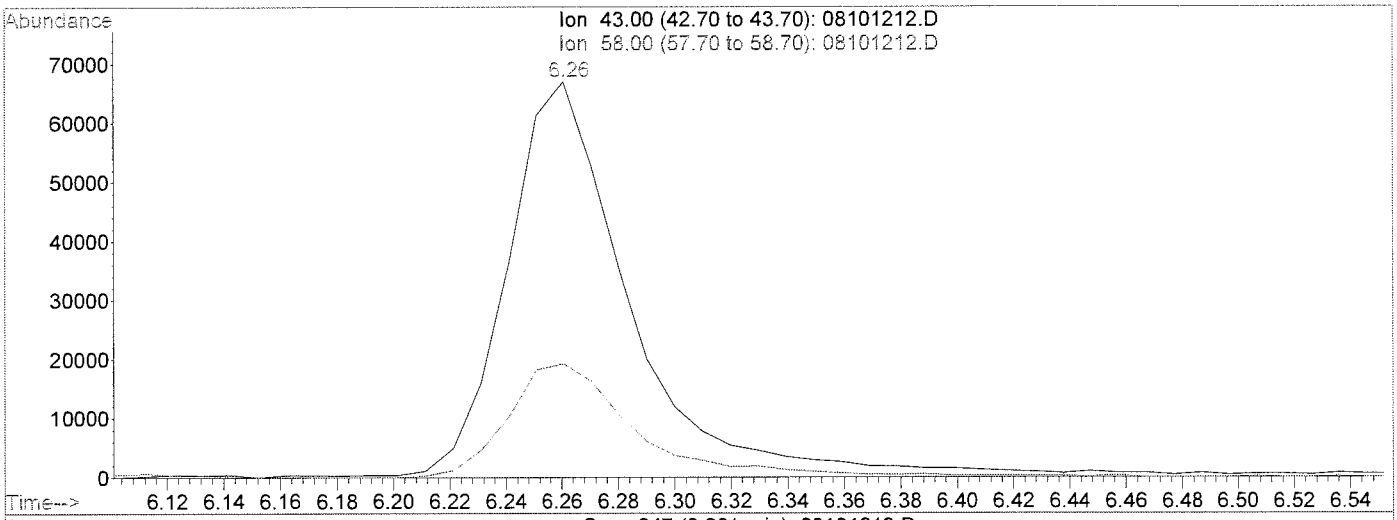
Ion	Exp%	Act%
45.10	100	100
46.05	59.90	47.60
0.00	0.00	0.00
0.00	0.00	0.00

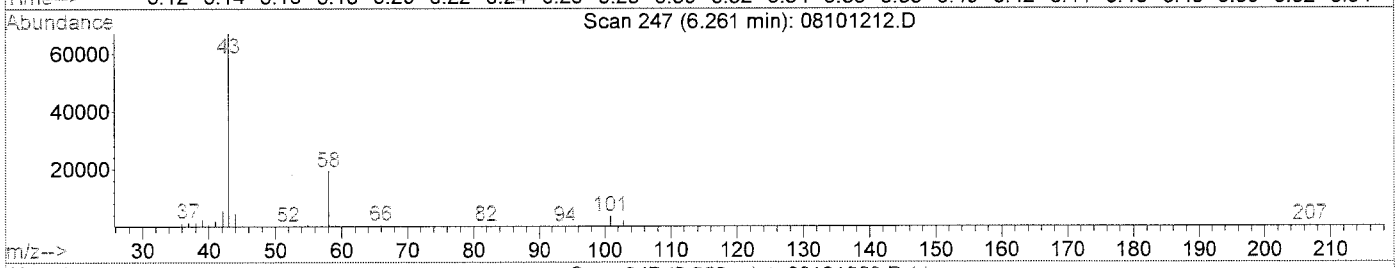
MNM 8/13/12

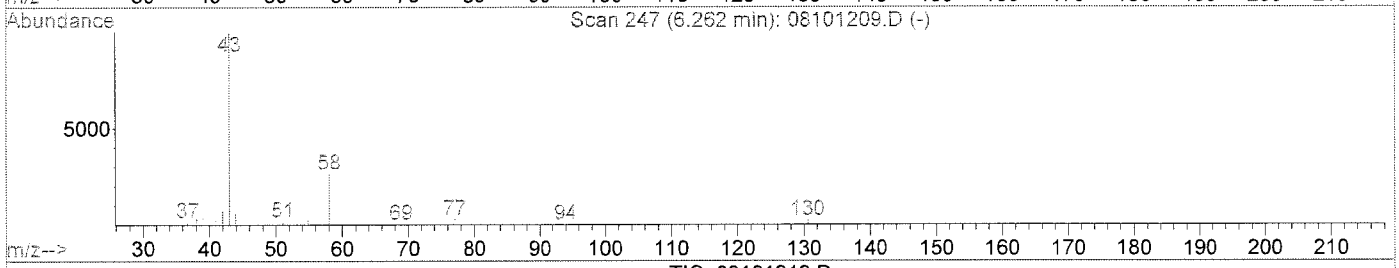
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101212.D

(12) Acetone (T)

6.26min 184.35ug/L

response 204068

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.87
0.00	0.00	0.00
0.00	0.00	0.00

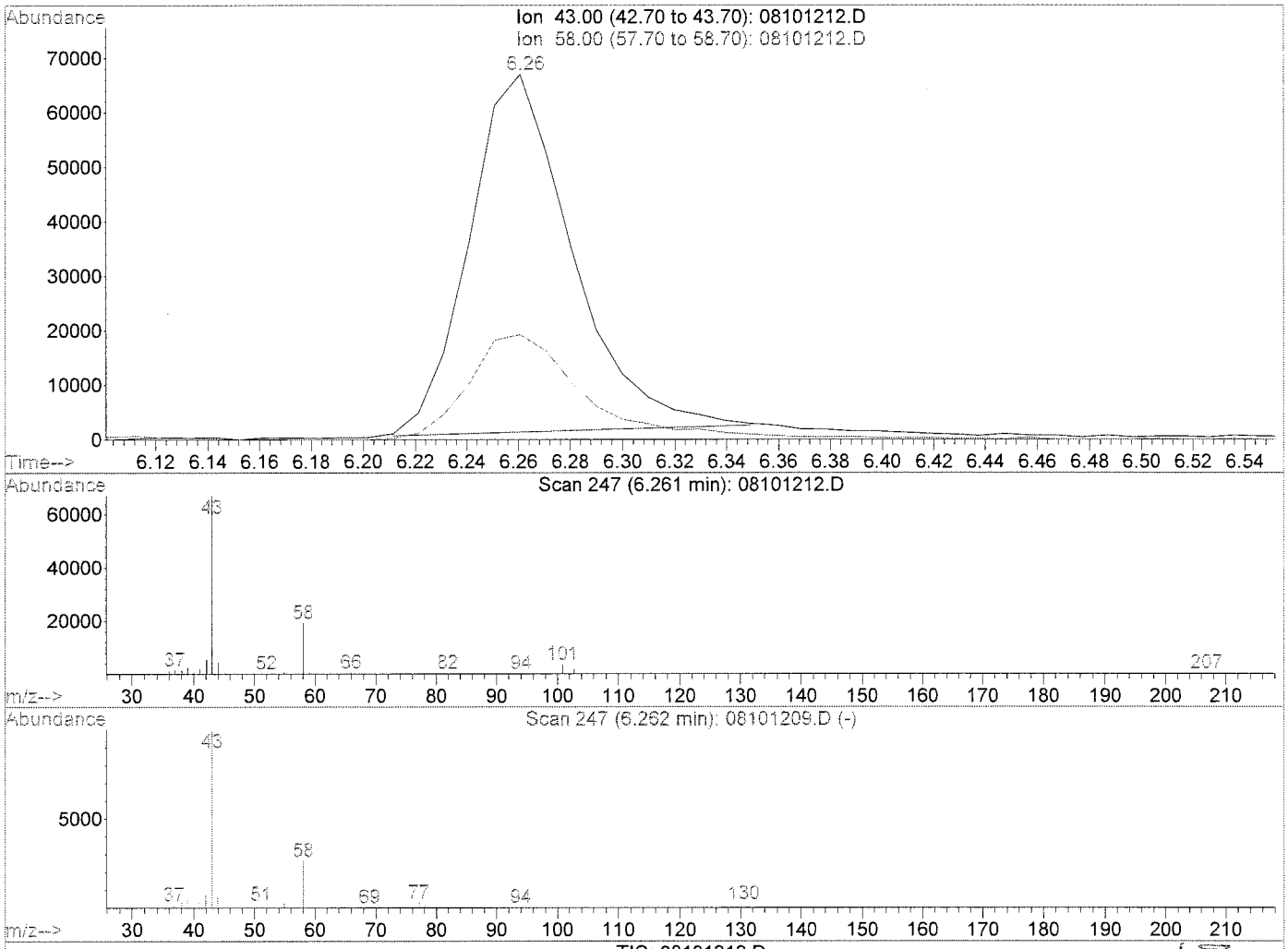
8/13/12

MNM 8/13/12

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration



8/13/12

(12) Acetone (T)

6.26min 163.38ug/L m

response 180852

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.70
0.00	0.00	0.00
0.00	0.00	0.00

MMJ 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	48072	200.00 ug/L	0.00
4) Pentafluorobenzene	9.84	168	262939	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	363436	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.28	117	260104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.78	152	98415	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	925086	201.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 804.64%	
48) Toluene-d8	13.33	98	2766585	192.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 771.04%	
62) 4-Bromofluorobenzene	16.96	95	772758	192.26 ug/L	0.00
Spiked Amount 25.000			Recovery	= 769.04%	

Target Compounds					Qvalue
2) Ethanol	5.42	45	59141m	2281.93 ug/L	
3) tert-Butanol (TBA)	6.84	59	301735	1073.03 ug/L	98
5) Dichlorodifluoromethane	4.12	85	1798928	186.45 ug/L	99
6) Chloromethane	4.35	50	1637264	174.37 ug/L	99
7) Vinyl Chloride	4.62	62	1314614	152.99 ug/L	99
8) 1,3-Butadiene	4.78	54	863028	185.70 ug/L	100
9) Bromomethane	5.19	94	991158	188.88 ug/L	100
10) Chloroethane	5.38	64	798291	187.32 ug/L	99
11) Trichlorofluoromethane	6.11	101	1442227	189.88 ug/L	99
12) Acetone	6.26	43	180852m	163.38 ug/L	
13) Iodomethane	6.86	142	1691791	190.58 ug/L	98
14) 1,1-Dichloroethene	6.80	96	959183	181.45 ug/L	97
15) Methylene Chloride	7.00	84	866879	184.17 ug/L	98
16) Freon 113	7.07	101	1005834	183.70 ug/L	96
17) Carbon disulfide	7.30	76	3351895	194.95 ug/L	98
18) trans-1,2-Dichloroethene	7.86	96	1151435	187.81 ug/L	98
19) MTBE	8.00	73	1705610	196.77 ug/L	100
20) 1,1-Dichloroethane	8.18	63	1809927	190.12 ug/L	100
21) Vinyl Acetate	8.34	43	1413743	209.50 ug/L	99
22) n-Hexane	8.69	86	285278	189.57 ug/L	88
23) 2-Butanone (MEK)	8.72	72	74546	196.84 ug/L #	66
24) Diisopropyl Ether (DIPE)	8.74	45	3100706	192.93 ug/L	98
25) cis-1,2-Dichloroethene	8.92	96	1089239	195.17 ug/L	97
26) Bromochloromethane	9.12	128	469231	211.82 ug/L	95
27) Chloroform	9.18	83	1657554	199.03 ug/L	98
28) 2,2-Dichloropropane	9.28	77	1146423	181.84 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.25	59	2259855	194.76 ug/L	98
31) Tetrahydrofuran	9.60	72	68814	199.78 ug/L	84
32) 1,2-Dichloroethane	10.02	62	794737	197.82 ug/L	99
33) 1,1,1-Trichloroethane	10.15	97	1389872	199.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.85	73	1846784	197.49 ug/L	98
36) 1,1-Dichloropropene	10.38	75	1491816	191.94 ug/L	99
37) Carbon Tetrachloride	10.61	117	1253531	205.72 ug/L	99
38) Benzene	10.67	78	3652383	196.95 ug/L	99
39) Dibromomethane	11.40	93	460678	210.41 ug/L	99
40) 1,2-Dichloropropane	11.43	63	868011	196.44 ug/L	98

MNM 8/13/12

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.48	95	1024952	197.15 ug/L		98
42)	Bromodichloromethane	11.55	83	1076186	211.61 ug/L		100
43)	2-Chlorovinylethylether	12.09	63	356836	213.66 ug/L		99
44)	cis-1,3-Dichloropropene	12.39	75	1241936	209.44 ug/L		98
45)	4-Methyl-2-Pentanone (MIBK	12.54	43	524388	196.96 ug/L		99
46)	trans-1,3-Dichloropropene	12.96	75	974996	216.21 ug/L		99
47)	1,1,2-Trichloroethane	13.18	97	546786	212.67 ug/L		97
49)	Toluene	13.42	92	2055027	194.84 ug/L		97
51)	1,3-Dichloropropane	13.49	76	938228	203.14 ug/L		99
52)	2-Hexanone	13.69	43	386586	200.24 ug/L		97
53)	Dibromochloromethane	13.85	129	760108	226.98 ug/L		99
54)	1,2-Dibromoethane	14.19	107	588904	209.84 ug/L		99
55)	Tetrachloroethene	14.41	164	884667	193.06 ug/L		99
56)	1,1,1,2-Tetrachloroethane	15.22	131	733849	199.87 ug/L		98
57)	Chlorobenzene	15.33	112	2070815	193.94 ug/L		99
58)	Ethylbenzene	15.59	91	3553977	190.55 ug/L		98
59)	m,p-Xylenes	15.85	106	1442112	202.66 ug/L		96
60)	Styrene	16.30	104	1948462	204.46 ug/L		100
61)	o-Xylene	16.40	106	1266882	192.63 ug/L		95
64)	Bromoform	16.02	173	438702	258.97 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.40	83	527983	199.73 ug/L		99
66)	1,2,3-Trichloropropane	16.60	110	133888	210.15 ug/L		98
67)	trans-1,4-Dichloro-2-buten	16.62	53	138291	205.50 ug/L	#	86
68)	Isopropylbenzene	16.90	105	3024067	205.74 ug/L		97
69)	Bromobenzene	17.25	156	802086	223.96 ug/L		97
70)	n-Propylbenzene	17.51	91	3823645	204.92 ug/L		98
71)	2-Chlorotoluene	17.65	91	2041028	202.31 ug/L		100
72)	4-Chlorotoluene	17.76	91	2058362	208.62 ug/L		100
73)	1,3,5-Trimethylbenzene	17.92	105	2287285	199.53 ug/L		99
74)	tert-Butylbenzene	18.31	119	1933954	188.89 ug/L		99
75)	1,2,4-Trimethylbenzene	18.47	105	2127268	196.17 ug/L		99
76)	sec-Butylbenzene	18.62	105	3047825	183.96 ug/L		98
77)	1,3-Dichlorobenzene	18.72	146	1267811	194.51 ug/L		98
78)	1,4-Dichlorobenzene	18.81	146	1231960	192.79 ug/L		98
79)	p-Isopropyltoluene	18.86	119	2345916	188.97 ug/L		99
80)	1,2-Dichlorobenzene	19.28	146	944274	177.93 ug/L		99
81)	n-Butylbenzene	19.39	91	2173438	182.58 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.86	75	39767	206.53 ug/L		87
83)	1,2,4-Trichlorobenzene	21.51	180	455405	160.04 ug/L		98
84)	Napthalene	21.83	128	697402	153.20 ug/L		99
85)	Hexachlorobutadiene	21.89	225	262810	226.56 ug/L		96
86)	1,2,3-Trichlorobenzene	22.09	180	329008	207.52 ug/L		96

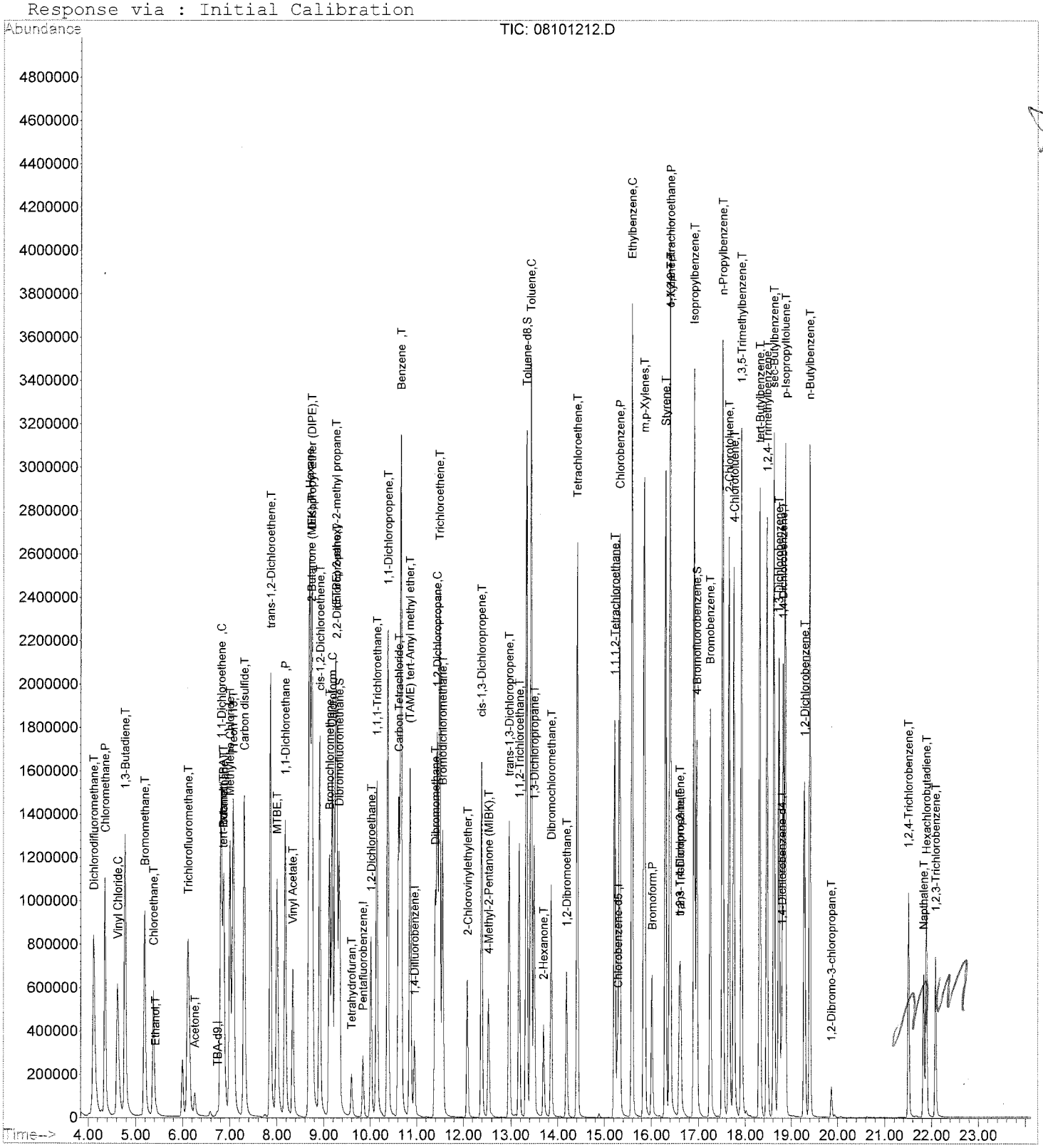
MM

(#) = qualifier out of range (m) = manual integration
08101212.D 081012.M Mon Aug 13 05:29:08 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D Vial: 12
Acq On : 10 Aug 2012 12:24 pm Operator: MNM
Sample : 200 PPB ICAL Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:28 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



624 CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F
2)	Ethanol	300.95	250	120.38	36	150	TRUE
3)	tert-Butanol (TBA)	153.29	125	122.64	70	134	TRUE
5)	Dichlorodifluoromethane	20.10	25	80.41	60	140	TRUE
6)	Chloromethane	24.20	25	96.79	0	204	TRUE
7)	Vinyl Chloride	25.13	25	100.54	4	196	TRUE
8)	1,3-Butadiene	38.03	25	152.10	50	141	FALSE NI
9)	Bromomethane	24.67	25	98.67	14	186	TRUE
10)	Chloroethane	24.83	25	99.30	38	162	TRUE
11)	Trichlorofluoromethane	25.82	25	103.27	48	152	TRUE
12)	Acetone	26.55	25	106.18	12	150	TRUE
13)	Iodomethane	26.45	25	105.80	40	150	TRUE
14)	1,1-Dichloroethene	23.27	25	93.10	50	150	TRUE
15)	Methylene Chloride	23.80	25	95.18	60	140	TRUE
16)	Freon 113	24.41	25	97.63	76	124	TRUE
17)	Carbon disulfide	26.18	25	104.72	64	136	TRUE
18)	trans-1,2-Dichloroethene	23.89	25	95.55	70	130	TRUE
19)	MTBE	23.56	25	94.24	64	140	TRUE
20)	1,1-Dichloroethane	23.84	25	95.36	72	128	TRUE
21)	Vinyl Acetate	28.25	25	112.98	48	150	TRUE
22)	n-Hexane	22.51	25	90.04	56	150	TRUE
23)	2-Butanone (MEK)	25.12	25	100.48	44	150	TRUE
24)	Diisopropyl Ether (DIPE)	23.73	25	94.92	72	132	TRUE
25)	cis-1,2-Dichloroethene	24.69	25	98.76	72	128	TRUE
26)	Bromochloromethane	23.74	25	94.96	72	132	TRUE
27)	Chloroform	23.45	25	93.78	68	132	TRUE
28)	2,2-Dichloropropane	23.74	25	94.98	64	140	TRUE
29)	(ETBE) 2-ethoxy-2-methyl propan	22.20	25	88.79	72	140	TRUE
30)	**Dibromofluoromethane**	**25.41**	25	101.66	80	120	**TRUE**
31)	Tetrahydrofuran	24.22	25	96.88	64	139	TRUE
32)	1,2-Dichloroethane	25.30	25	101.21	68	132	TRUE
33)	1,1,1-Trichloroethane	24.27	25	97.08	75	125	TRUE
34)	(TAME) tert-Amyl methyl ether	24.10	25	96.39	68	140	TRUE
36)	1,1-Dichloropropene	23.93	25	95.73	76	128	TRUE
37)	Carbon Tetrachloride	24.31	25	97.26	73	127	TRUE
38)	Benzene	24.82	25	99.27	64	136	TRUE

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39) Dibromomethane	24.98	25	99.92	72	132	TRUE
40) 1,2-Dichloropropane	23.49	25	93.96	34	166	TRUE
41) Trichloroethene	23.76	25	95.04	66	133	TRUE
42) Bromodichloromethane	25.13	25	100.53	66	134	TRUE
43) 2-Chlorovinylethylether	25.34	25	101.37	0	224	TRUE
44) cis-1,3-Dichloropropene	25.16	25	100.65	24	176	TRUE
45) 4-Methyl-2-Pentanone (MIBK)	26.85	25	107.40	60	144	TRUE
46) trans-1,3-Dichloropropene	25.25	25	101.01	50	150	TRUE
47) 1,1,2-Trichloroethane	25.95	25	103.82	71	129	TRUE
48) **Toluene-d8**	**24.62**	25	98.47	80	120	**TRUE**
49) Toluene	24.90	25	99.58	74	126	TRUE
51) 1,3-Dichloropropane	25.40	25	101.59	80	124	TRUE
52) 2-Hexanone	26.85	25	107.40	52	150	TRUE
53) Dibromochloromethane	24.64	25	98.56	68	132	TRUE
54) 1,2-Dibromoethane	24.98	25	99.93	80	128	TRUE
55) Tetrachloroethene	22.60	25	90.40	74	126	TRUE
56) 1,1,1,2-Tetrachloroethane	23.23	25	92.90	76	124	TRUE
57) Chlorobenzene	23.54	25	94.14	66	134	TRUE
58) Ethylbenzene	25.07	25	100.26	59	141	TRUE
59) m,p-Xylenes	24.18	25	96.72	80	120	TRUE
60) Styrene	24.75	25	98.98	84	124	TRUE
61) o-Xylene	23.64	25	94.54	72	128	TRUE
62) **4-Bromofluorobenzene**	**26.12**	25	104.48	80	120	**TRUE**
64) Bromoform	25.45	25	101.80	71	129	TRUE
65) 1,1,2,2-Tetrachloroethane	26.77	25	107.09	61	140	TRUE
66) 1,2,3-Trichloropropane	25.76	25	103.05	76	128	TRUE
67) trans-1,4-Dichloro-2-butene	21.70	25	86.80	48	138	TRUE
68) Isopropylbenzene	26.26	25	105.06	76	132	TRUE
69) Bromobenzene	24.25	25	96.98	76	128	TRUE
70) n-Propylbenzene	24.96	25	99.84	76	132	TRUE
71) 2-Chlorotoluene	24.53	25	98.10	80	124	TRUE
72) 4-Chlorotoluene	23.93	25	95.74	80	124	TRUE
73) 1,3,5-Trimethylbenzene	24.02	25	96.08	80	128	TRUE
74) tert-Butylbenzene	24.77	25	99.08	76	132	TRUE
75) 1,2,4-Trimethylbenzene	24.49	25	97.94	80	128	TRUE
76) sec-Butylbenzene	24.19	25	96.77	80	128	TRUE
77) 1,3-Dichlorobenzene	24.21	25	96.86	73	127	TRUE
78) 1,4-Dichlorobenzene	23.21	25	92.83	63	137	TRUE
79) p-Isopropyltoluene	24.67	25	98.70	80	128	TRUE
80) 1,2-Dichlorobenzene	23.88	25	95.53	63	137	TRUE
81) n-Butylbenzene	25.43	25	101.74	76	132	TRUE
82) 1,2-Dibromo-3-chloropropane	30.65	25	122.61	64	128	TRUE
83) 1,2,4-Trichlorobenzene	26.52	25	106.10	76	128	TRUE
84) Napthalene	28.97	25	115.87	68	136	TRUE
85) Hexachlorobutadiene	26.88	25	107.52	76	132	TRUE
86) 1,2,3-Trichlorobenzene	27.16	25	108.62	72	128	TRUE

MM

8260 CCV/ICV CUSTOM REPORT

Data File Name	08101215.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\081012\
Operator	MNM
Date Acquired	8/10/2012 1:40
Acq. Method File	8260
Sample Name	25 PPB ICV/SS
Instrument Name	GC/MS #2

8/13/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	44222	52594	26297	105188	TRUE
4)	Pentafluorobenzene	217542	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	306655	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	216631	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	92262	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	300.95	250	120%	36%	150%	TRUE	
3)	tert-Butanol (TBA)	153.29	125	123%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	20.10	25	80%	60%	140%	TRUE	
6)	Chloromethane	24.20	25	97%	48%	144%	TRUE	
7)	Vinyl Chloride	25.13	25	101%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	38.03	25	152%	50%	141%	FALSE	NA
9)	Bromomethane	24.67	25	99%	40%	144%	TRUE	
10)	Chloroethane	24.83	25	99%	60%	132%	TRUE	
11)	Trichlorofluoromethane	25.82	25	103%	68%	136%	TRUE	
12)	Acetone	26.55	25	106%	12%	150%	TRUE	
13)	Iodomethane	26.45	25	106%	40%	160%	TRUE	
14)	1,1-Dichloroethene	23.27	25	93%	80%	120%	TRUE	CCC
15)	Methylene Chloride	23.80	25	95%	68%	128%	TRUE	
16)	Freon 113	24.41	25	98%	76%	124%	TRUE	
17)	Carbon disulfide	26.18	25	105%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	23.89	25	96%	76%	120%	TRUE	
19)	MTBE	23.56	25	94%	64%	140%	TRUE	
20)	1,1-Dichloroethane	23.84	25	95%	72%	124%	TRUE	
21)	Vinyl Acetate	28.25	25	113%	48%	150%	TRUE	
22)	n-Hexane	22.51	25	90%	56%	150%	TRUE	
23)	2-Butanone (MEK)	25.12	25	100%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	23.73	25	95%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.69	25	99%	72%	128%	TRUE	
26)	Bromochloromethane	23.74	25	95%	72%	132%	TRUE	
27)	Chloroform	23.45	25	94%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	23.74	25	95%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	22.20	25	89%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**25.41**	**25**	102%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	24.22	25	97%	64%	139%	TRUE	
32)	1,2-Dichloroethane	25.30	25	101%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	24.27	25	97%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	24.10	25	96%	68%	140%	TRUE	
36)	1,1-Dichloropropene	23.93	25	96%	76%	128%	TRUE	
37)	Carbon Tetrachloride	24.31	25	97%	72%	136%	TRUE	
38)	Benzene	24.82	25	99%	76%	120%	TRUE	

MM 8/13/12

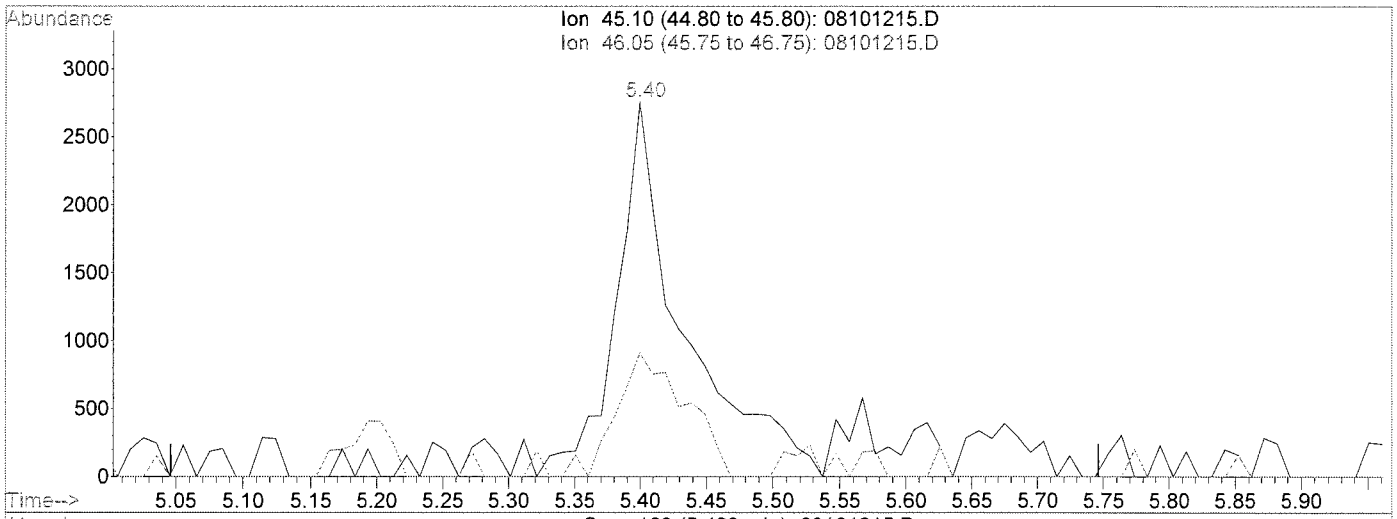
39)	Dibromomethane	24.98	25	100%	72%	132%	TRUE	
40)	1,2-Dichloropropane	23.49	25	94%	80%	120%	TRUE	CCC
41)	Trichloroethene	23.76	25	95%	80%	120%	TRUE	
42)	Bromodichloromethane	25.13	25	101%	76%	128%	TRUE	
43)	2-Chlorovinylethylether	25.34	25	101%	10%	150%	TRUE	
44)	cis-1,3-Dichloropropene	25.16	25	101%	76%	136%	TRUE	
45)	4-Methyl-2-Pentanone (MIBK)	26.85	25	107%	60%	144%	TRUE	
46)	trans-1,3-Dichloropropene	25.25	25	101%	68%	140%	TRUE	
47)	1,1,2-Trichloroethane	25.95	25	104%	72%	132%	TRUE	
48)	**Toluene-d8**	**24.62**	**25**	98%	80%	120%	**TRUE**	
49)	Toluene	24.90	25	100%	80%	120%	TRUE	CCC
51)	1,3-Dichloropropane	25.40	25	102%	80%	124%	TRUE	
52)	2-Hexanone	26.85	25	107%	52%	150%	TRUE	
53)	Dibromochloromethane	24.64	25	99%	80%	128%	TRUE	
54)	1,2-Dibromoethane	24.98	25	100%	80%	128%	TRUE	
55)	Tetrachloroethene	22.60	25	90%	76%	128%	TRUE	
56)	1,1,1,2-Tetrachloroethane	23.23	25	93%	76%	124%	TRUE	
57)	Chlorobenzene	23.54	25	94%	80%	120%	TRUE	
58)	Ethylbenzene	25.07	25	100%	80%	120%	TRUE	CCC
59)	m,p-Xylenes	24.18	25	97%	80%	120%	TRUE	
60)	Styrene	24.75	25	99%	84%	124%	TRUE	
61)	o-Xylene	23.64	25	95%	72%	128%	TRUE	
62)	**4-Bromofluorobenzene**	**26.12**	**25**	104%	80%	120%	**TRUE**	
64)	Bromoform	25.45	25	102%	68%	132%	TRUE	
65)	1,1,2,2-Tetrachloroethane	26.77	25	107%	68%	132%	TRUE	
66)	1,2,3-Trichloropropane	25.76	25	103%	76%	128%	TRUE	
67)	trans-1,4-Dichloro-2-butene	21.70	25	87%	48%	138%	TRUE	
68)	Isopropylbenzene	26.26	25	105%	76%	132%	TRUE	
69)	Bromobenzene	24.25	25	97%	76%	128%	TRUE	
70)	n-Propylbenzene	24.96	25	100%	76%	132%	TRUE	
71)	2-Chlorotoluene	24.53	25	98%	80%	124%	TRUE	
72)	4-Chlorotoluene	23.93	25	96%	80%	124%	TRUE	
73)	1,3,5-Trimethylbenzene	24.02	25	96%	80%	128%	TRUE	
74)	tert-Butylbenzene	24.77	25	99%	76%	132%	TRUE	
75)	1,2,4-Trimethylbenzene	24.49	25	98%	80%	128%	TRUE	
76)	sec-Butylbenzene	24.19	25	97%	80%	128%	TRUE	
77)	1,3-Dichlorobenzene	24.21	25	97%	80%	124%	TRUE	
78)	1,4-Dichlorobenzene	23.21	25	93%	76%	120%	TRUE	
79)	p-Isopropyltoluene	24.67	25	99%	80%	128%	TRUE	
80)	1,2-Dichlorobenzene	23.88	25	96%	80%	124%	TRUE	
81)	n-Butylbenzene	25.43	25	102%	76%	132%	TRUE	
82)	1,2-Dibromo-3-chloropropane	30.65	25	123%	64%	128%	TRUE	
83)	1,2,4-Trichlorobenzene	26.52	25	106%	76%	128%	TRUE	
84)	Napthalene	28.97	25	116%	68%	136%	TRUE	
85)	Hexachlorobutadiene	26.88	25	108%	76%	132%	TRUE	
86)	1,2,3-Trichlorobenzene	27.16	25	109%	72%	128%	TRUE	

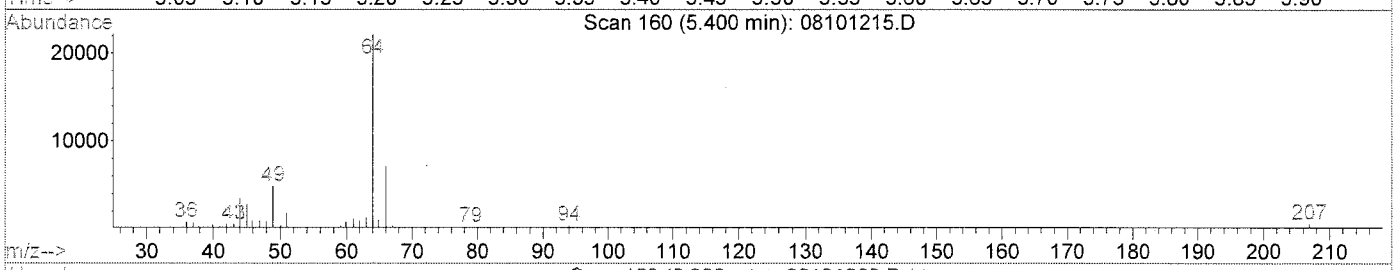
MM

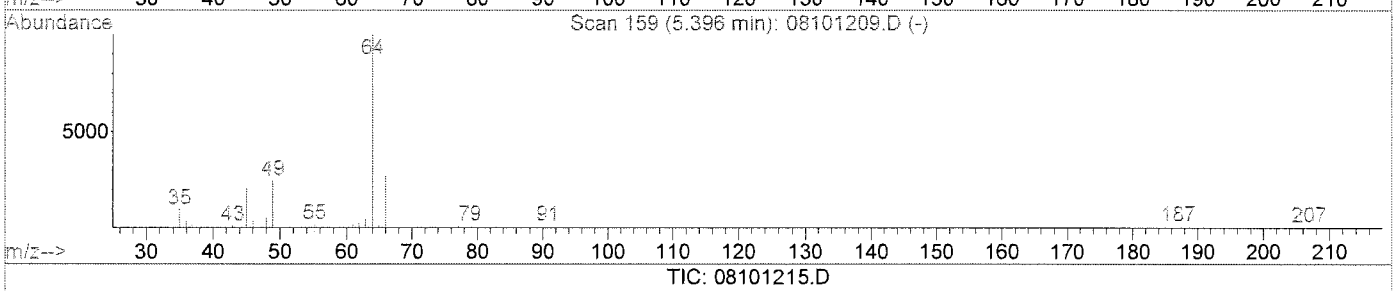
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(2) Ethanol (T)

5.40min 408.32ug/L

response 9735

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	34.49#
0.00	0.00	0.00
0.00	0.00	0.00

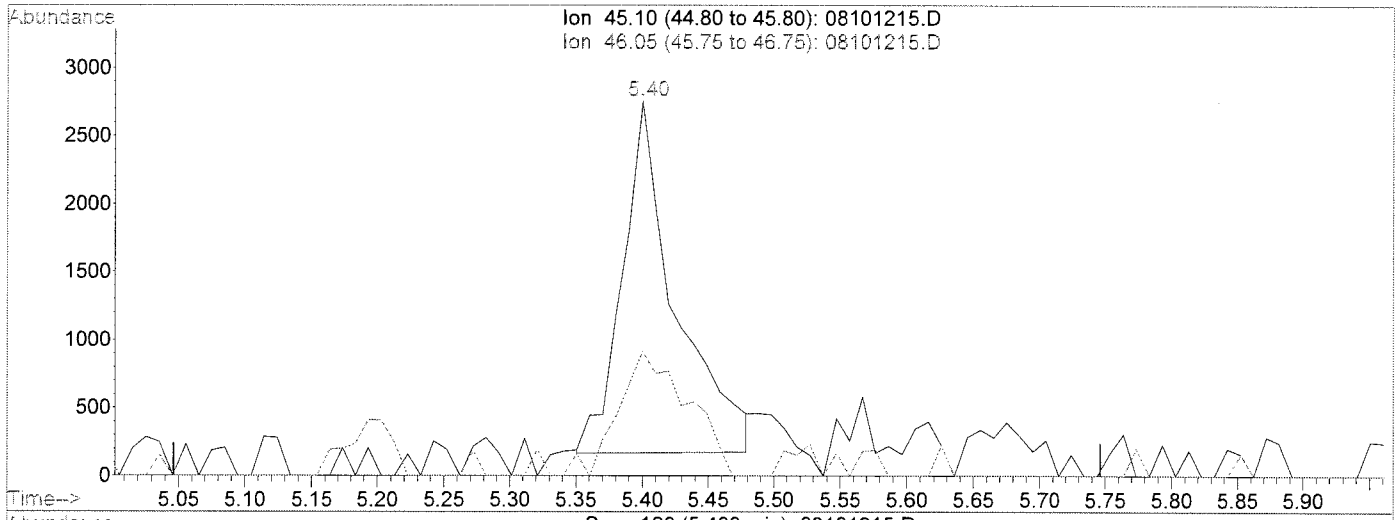
8/13/12

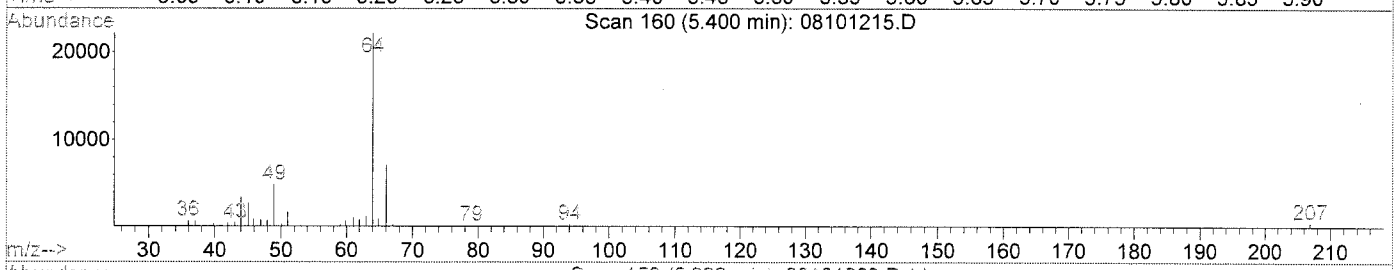
BL MNM 8/13/12

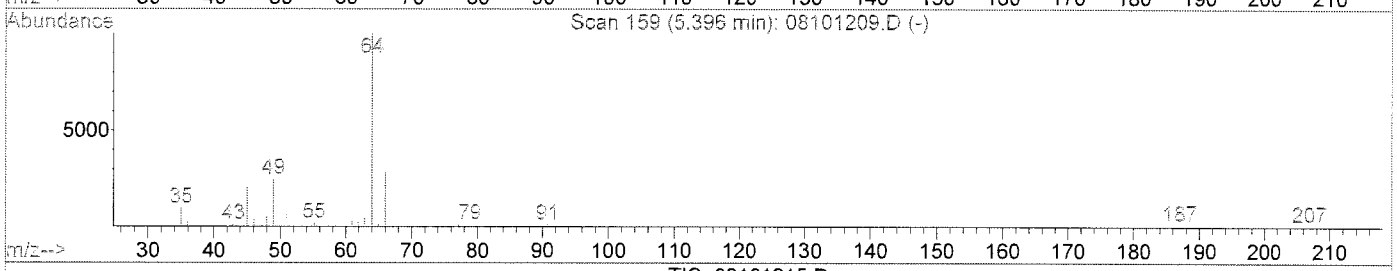
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(2) Ethanol (T)

5.40min 300.95ug/L m

response 7175

Ion	Exp%	Act%
45.10	100	100
46.05	59.90	46.80
0.00	0.00	0.00
0.00	0.00	0.00

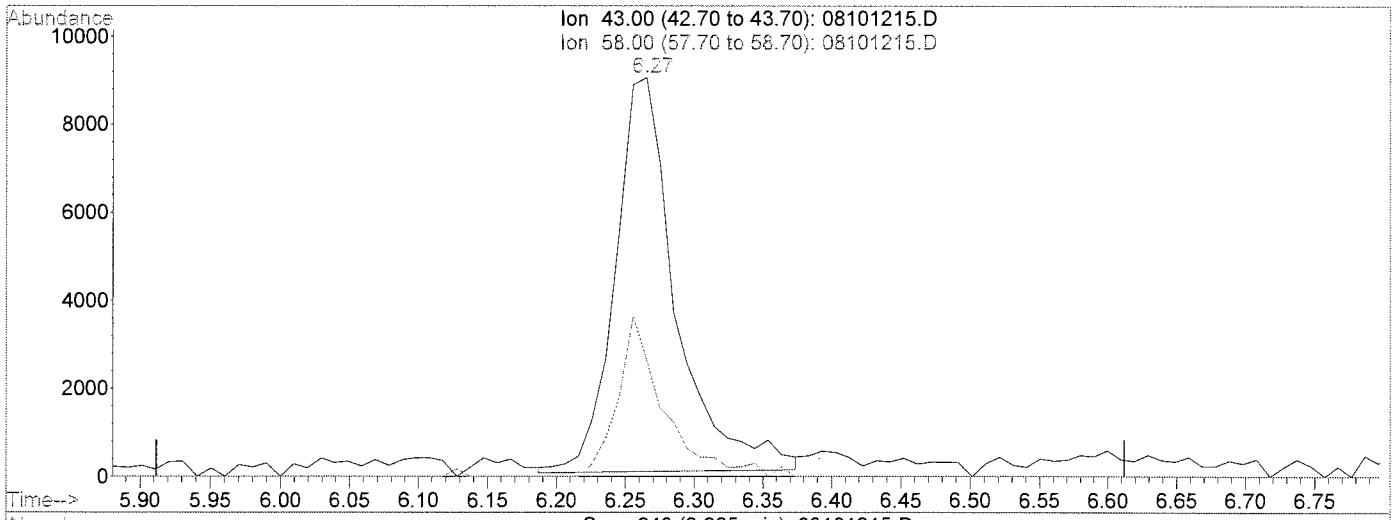
A

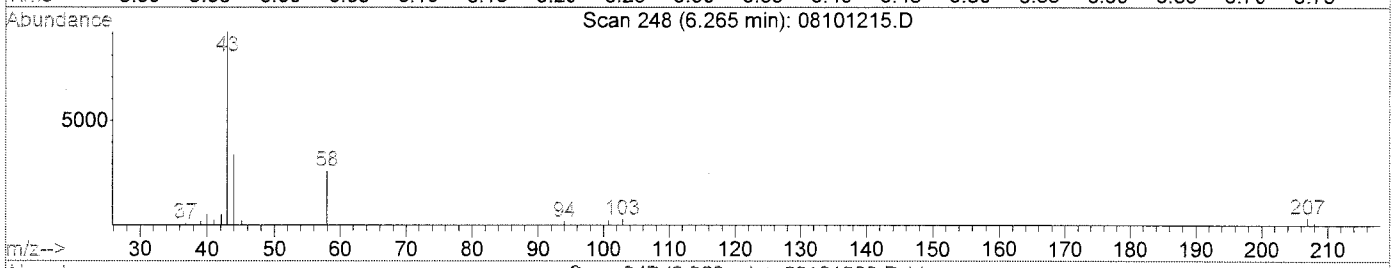
MM 8/13/12

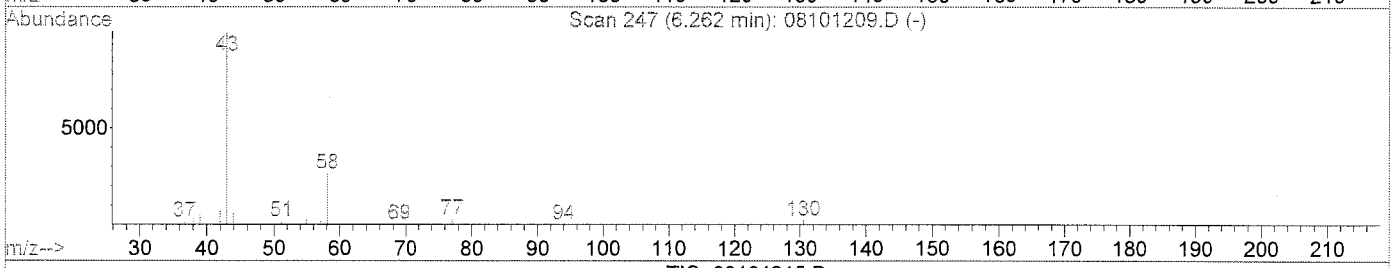
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

(12) Acetone (T)

6.27min 30.06ug/L

response 27530

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	31.08
0.00	0.00	0.00
0.00	0.00	0.00

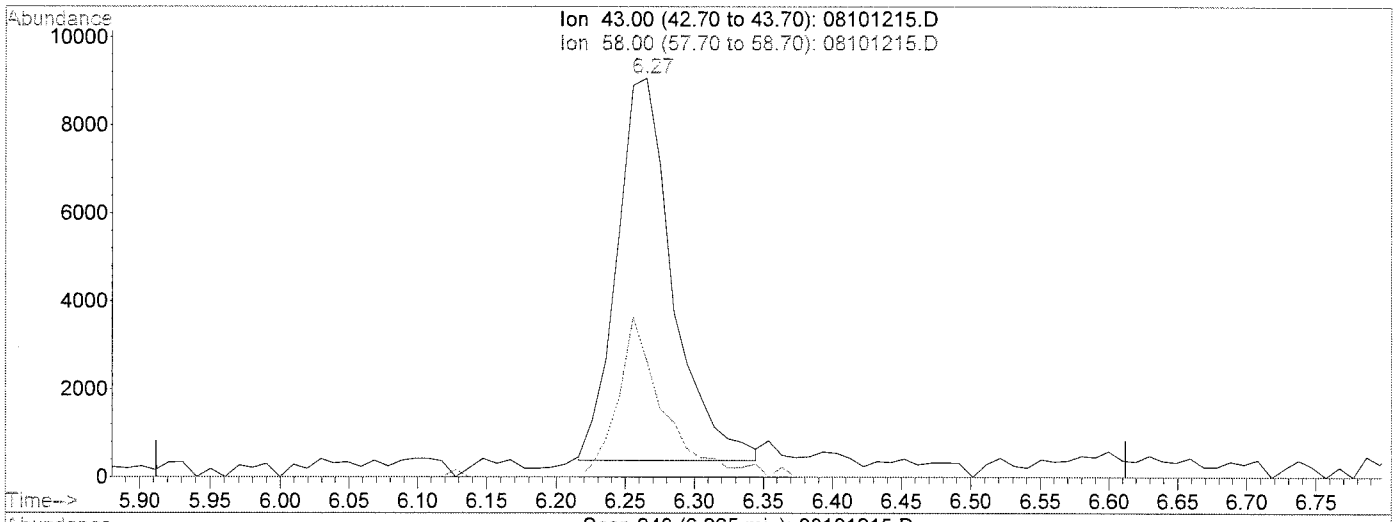
8/13/12

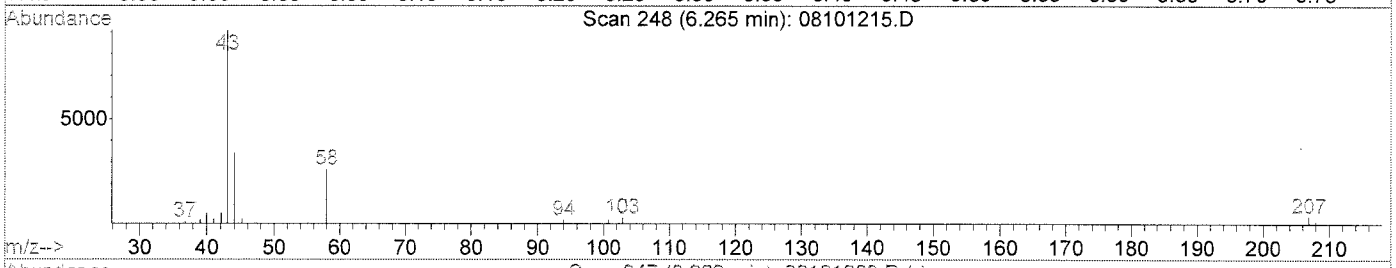
MNM 8/13/12

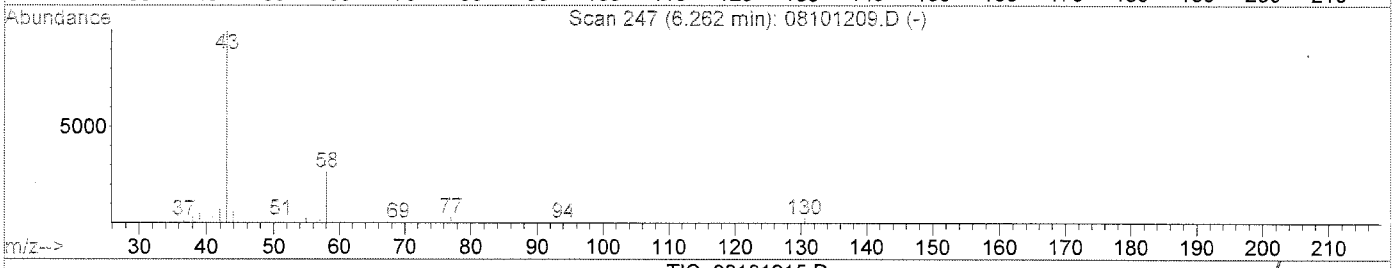
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration







TIC: 08101215.D

8/13/12

(12) Acetone (T)

6.27min 26.55ug/L m

response 24311

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	35.19
0.00	0.00	0.00
0.00	0.00	0.00

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

8/13/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.73	65	44222	200.00 ug/L	0.00
4) Pentafluorobenzene	9.85	168	217542	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.96	114	306655	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.29	117	216631	25.00 ug/L	0.01
63) 1,4-Dichlorobenzene-d4	18.78	152	92262	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	96692	25.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 101.64%	
48) Toluene-d8	13.33	98	298127	24.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.48%	
62) 4-Bromofluorobenzene	16.96	95	87439	26.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.48%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	7175m	300.95 ug/L	
3) tert-Butanol (TBA)	6.84	59	39654	153.29 ug/L	97
5) Dichlorodifluoromethane	4.12	85	160463	20.10 ug/L	98
6) Chloromethane	4.36	50	187967	24.20 ug/L	99
7) Vinyl Chloride	4.64	62	178677	25.13 ug/L	97
8) 1,3-Butadiene	4.79	54	146211	38.03 ug/L	97
9) Bromomethane	5.19	94	107095	24.67 ug/L	99
10) Chloroethane	5.38	64	87529	24.83 ug/L	99
11) Trichlorofluoromethane	6.12	101	162229	25.82 ug/L	98
12) Acetone	6.27	43	24311m	26.55 ug/L	
13) Iodomethane	6.87	142	194254	26.45 ug/L	97
14) 1,1-Dichloroethene	6.82	96	101788	23.27 ug/L	96
15) Methylene Chloride	7.00	84	92664	23.80 ug/L	97
16) Freon 113	7.07	101	110574	24.41 ug/L	98
17) Carbon disulfide	7.31	76	372407	26.18 ug/L	99
18) trans-1,2-Dichloroethene	7.87	96	121167	23.89 ug/L	98
19) MTBE	8.01	73	168955	23.56 ug/L	98
20) 1,1-Dichloroethane	8.18	63	187773	23.84 ug/L	99
21) Vinyl Acetate	8.35	43	157700	28.25 ug/L	99
22) n-Hexane	8.69	86	28024	22.51 ug/L	86
23) 2-Butanone (MEK)	8.73	72	7871	25.12 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.74	45	315525	23.73 ug/L #	64
25) cis-1,2-Dichloroethene	8.92	96	114002	24.69 ug/L	99
26) Bromochloromethane	9.13	128	43509	23.74 ug/L #	85
27) Chloroform	9.18	83	161542	23.45 ug/L #	95
28) 2,2-Dichloropropane	9.29	77	123852	23.74 ug/L	97
29) (ETBE) 2-ethoxy-2-methyl p	9.26	59	213089	22.20 ug/L	100
31) Tetrahydrofuran	9.61	72	6902	24.22 ug/L	87
32) 1,2-Dichloroethane	10.02	62	84103	25.30 ug/L	99
33) 1,1,1-Trichloroethane	10.14	97	140057	24.27 ug/L	98
34) (TAME) tert-Amyl methyl et	10.86	73	186435	24.10 ug/L	99
36) 1,1-Dichloropropene	10.38	75	156952	23.93 ug/L	96
37) Carbon Tetrachloride	10.61	117	125008	24.31 ug/L	98
38) Benzene	10.67	78	388326	24.82 ug/L	99
39) Dibromomethane	11.40	93	46149	24.98 ug/L	98
40) 1,2-Dichloropropane	11.44	63	87576	23.49 ug/L	95

(#) = qualifier out of range (m) = manual integration

MNM 8/13/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.49	95	104225	23.76 ug/L	96
42)	Bromodichloromethane	11.56	83	107842	25.13 ug/L	99
43)	2-Chlorovinylethylether	12.10	63	35712	25.34 ug/L	98
44)	cis-1,3-Dichloropropene	12.39	75	125892	25.16 ug/L	98
45)	4-Methyl-2-Pentanone (MIBK	12.53	43	60317	26.85 ug/L	100
46)	trans-1,3-Dichloropropene	12.96	75	96087	25.25 ug/L	97
47)	1,1,2-Trichloroethane	13.17	97	56305	25.95 ug/L	97
49)	Toluene	13.43	92	221555	24.90 ug/L	99
51)	1,3-Dichloropropane	13.49	76	97702	25.40 ug/L	99
52)	2-Hexanone	13.69	43	43171	26.85 ug/L	98
53)	Dibromochloromethane	13.86	129	68720	24.64 ug/L	96
54)	1,2-Dibromoethane	14.19	107	58393	24.98 ug/L	99
55)	Tetrachloroethene	14.42	164	86251	22.60 ug/L	99
56)	1,1,1,2-Tetrachloroethane	15.23	131	71024	23.23 ug/L	93
57)	Chlorobenzene	15.32	112	209307	23.54 ug/L	97
58)	Ethylbenzene	15.59	91	389353	25.07 ug/L	99
59)	m,p-Xylenes	15.85	106	143302	24.18 ug/L	96
60)	Styrene	16.30	104	196407	24.75 ug/L	98
61)	o-Xylene	16.40	106	129466	23.64 ug/L	96
64)	Bromoform	16.02	173	40418	25.45 ug/L	96
65)	1,1,2,2-Tetrachloroethane	16.40	83	66349	26.77 ug/L	100
66)	1,2,3-Trichloropropane	16.59	110	15388	25.76 ug/L	98
67)	trans-1,4-Dichloro-2-buten	16.62	53	13110	21.70 ug/L	95
68)	Isopropylbenzene	16.90	105	361912	26.26 ug/L	99
69)	Bromobenzene	17.25	156	81404	24.25 ug/L	93
70)	n-Propylbenzene	17.51	91	436616	24.96 ug/L	98
71)	2-Chlorotoluene	17.65	91	231960	24.53 ug/L	98
72)	4-Chlorotoluene	17.75	91	221379	23.93 ug/L	99
73)	1,3,5-Trimethylbenzene	17.92	105	258127	24.02 ug/L	99
74)	tert-Butylbenzene	18.31	119	237760	24.77 ug/L	98
75)	1,2,4-Trimethylbenzene	18.46	105	248923	24.49 ug/L	100
76)	sec-Butylbenzene	18.62	105	375741	24.19 ug/L	99
77)	1,3-Dichlorobenzene	18.73	146	147956	24.21 ug/L	97
78)	1,4-Dichlorobenzene	18.82	146	139025	23.21 ug/L	99
79)	p-Isopropyltoluene	18.87	119	287165	24.67 ug/L	98
80)	1,2-Dichlorobenzene	19.28	146	118825	23.88 ug/L	98
81)	n-Butylbenzene	19.40	91	283846	25.43 ug/L	98
82)	1,2-Dibromo-3-chloropropan	19.87	75	7617	30.65 ug/L	96
83)	1,2,4-Trichlorobenzene	21.51	180	70757	26.52 ug/L	99
84)	Napthalene	21.84	128	123624	28.97 ug/L	99
85)	Hexachlorobutadiene	21.90	225	49225	26.88 ug/L	98
86)	1,2,3-Trichlorobenzene	22.09	180	58513	27.16 ug/L	98

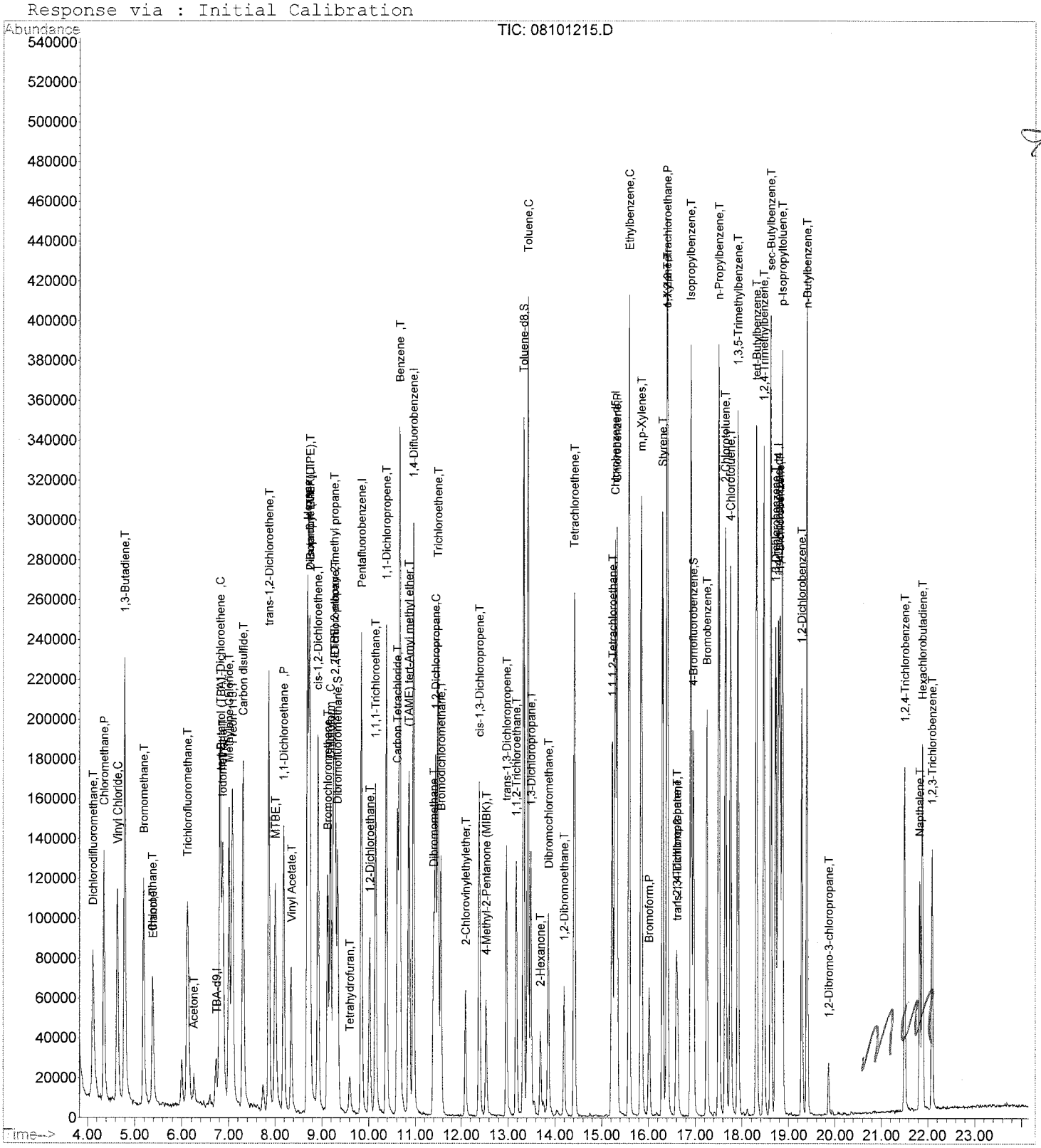
MNM

(#) = qualifier out of range (m) = manual integration
08101215.D 081012.M Mon Aug 13 05:30:58 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\081012\08101215.D Vial: 2
Acq On : 10 Aug 2012 1:40 pm Operator: MNM
Sample : 25 PPB ICV/SS Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 13 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Calibration Status Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	5	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101204.D
2	1.0	10	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101205.D
3	2.0	20	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101206.D
4	5.0	50	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101207.D
5	10.0	100	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101208.D
6	25.0	250	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101209.D
7	50.0	500	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101210.D
8	100.	1000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101211.D
9	200.	2000	200	C:\HPCHEM\1\GCMS2\DATA\081012\08101212.D

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#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Aug 10 12:51 2012	Aug 10 09:42 2012	10 Aug 2012 8:03 am
2	1.0	Aug 10 12:51 2012	Aug 10 09:44 2012	10 Aug 2012 8:36 am
3	2.0	Aug 10 12:51 2012	Aug 10 09:46 2012	10 Aug 2012 9:08 am
4	5.0	Aug 10 12:51 2012	Aug 10 12:39 2012	10 Aug 2012 9:41 am
5	10.0	Aug 10 12:51 2012	Aug 10 12:40 2012	10 Aug 2012 10:14 am
6	25.0	Aug 10 12:51 2012	Aug 10 12:41 2012	10 Aug 2012 10:46 am
7	50.0	Aug 10 12:51 2012	Aug 10 12:43 2012	10 Aug 2012 11:19 am
8	100.	Aug 10 12:51 2012	Aug 10 12:45 2012	10 Aug 2012 11:51 am
9	200.	Aug 10 12:52 2012	Aug 10 12:49 2012	10 Aug 2012 12:24 pm

081012.M Mon Aug 13 06:02:17 2012

MM 8/13/12

Compound List Report GC/MS #2

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
Total Cpnds : 86

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	TBA-d9	65	6.72	1.000	A	0	A	B
2	T	Ethanol	45	5.40	0.803	A	1	A	B
3	T	tert-Butanol (TBA)	59	6.83	1.016	A	1	A	B
4	I	Pentafluorobenzene	168	9.84	1.000	A	1	A	B
5	T	Dichlorodifluoromethane	85	4.11	0.417	A	1	A	B
6	P	Chloromethane	50	4.35	0.442	A	1	A	B
7	C	Vinyl Chloride	62	4.63	0.470	A	1	A	B
8	T	1,3-Butadiene	54	4.79	0.486	A	2	A	B
9	T	Bromomethane	94	5.19	0.527	A	1	A	L
10	T	Chloroethane	64	5.38	0.546	A	2	A	B
11	T	Trichlorofluoromethane	101	6.11	0.621	A	1	A	B
12	T	Acetone	43	6.26	0.636	A	1	A	B
13	T	Iodomethane	142	6.86	0.697	A	2	A	B
14	C	1,1-Dichloroethene	96	6.81	0.692	A	2	A	B
15	T	Methylene Chloride	84	7.00	0.711	A	2	A	B
16	T	Freon 113	101	7.07	0.718	A	2	A	B
17	T	Carbon disulfide	76	7.29	0.741	A	2	A	B
18	T	trans-1,2-Dichloroethene	96	7.87	0.799	A	2	A	B
19	T	MTBE	73	8.00	0.813	A	1	A	B
20	P	1,1-Dichloroethane	63	8.18	0.831	A	2	A	B
21	T	Vinyl Acetate	43	8.34	0.847	A	1	A	B
22		n-Hexane	86	8.69	0.883	A	1	A	B
23	T	2-Butanone (MEK)	72	8.73	0.887	A	2	A	B
24	T	Diisopropyl Ether (DIPE)	45	8.74	0.888	A	3	A	B
25	T	cis-1,2-Dichloroethene	96	8.91	0.905	A	2	A	B
26	T	Bromochloromethane	128	9.11	0.926	A	2	A	B
27	C	Chloroform	83	9.17	0.932	A	2	A	B
28	T	2,2-Dichloropropane	77	9.27	0.942	A	2	A	B
29	T	(ETBE) 2-ethoxy-2-methyl propa	59	9.24	0.939	A	2	A	B
30	S	Dibromofluoromethane	113	9.33	0.948	A	0	A	B
31	T	Tetrahydrofuran	72	9.60	0.975	A	2	A	B
32	T	1,2-Dichloroethane	62	10.01	1.017	A	2	A	B
33	T	1,1,1-Trichloroethane	97	10.14	1.030	A	2	A	B
34	T	(TAME) tert-Amyl methyl ether	73	10.86	1.103	A	3	A	B
35	I	1,4-Difluorobenzene	114	10.95	1.000	A	0	A	B
36	T	1,1-Dichloropropene	75	10.37	0.947	A	2	A	B
37	T	Carbon Tetrachloride	117	10.61	0.969	A	2	A	B
38	T	Benzene	78	10.66	0.973	A	1	A	B
39	T	Dibromomethane	93	11.39	1.040	A	2	A	B
40	C	1,2-Dichloropropane	63	11.44	1.044	A	2	A	B
41	T	Trichloroethene	95	11.48	1.048	A	3	A	B
42	T	Bromodichloromethane	83	11.55	1.055	A	2	A	B
43	T	2-Chlorovinylethylether	63	12.08	1.103	A	2	A	B
44	T	cis-1,3-Dichloropropene	75	12.39	1.131	A	2	A	B
45	T	4-Methyl-2-Pentanone (MIBK)	43	12.53	1.144	A	1	A	B
46	T	trans-1,3-Dichloropropene	75	12.95	1.182	A	2	A	B
47	T	1,1,2-Trichloroethane	97	13.17	1.202	A	2	A	B
48	S	Toluene-d8	98	13.32	1.216	A	0	A	B
49	C	Toluene	92	13.42	1.225	A	2	A	B
50	I	Chlorobenzene-d5	117	15.27	1.000	A	0	A	B
51	T	1,3-Dichloropropane	76	13.49	0.883	A	1	A	B
52	T	2-Hexanone	43	13.69	0.896	A	2	A	B
53	T	Dibromochloromethane	129	13.86	0.907	A	1	A	B
54	T	1,2-Dibromoethane	107	14.18	0.929	A	1	A	B
55	T	Tetrachloroethene	164	14.41	0.943	A	2	A	B
56	T	1,1,1,2-Tetrachloroethane	131	15.21	0.996	A	2	A	B
57	P	Chlorobenzene	112	15.32	1.003	A	2	A	B
58	C	Ethylbenzene	91	15.59	1.021	A	1	A	B
59	T	m,p-Xylenes	106	15.84	1.037	A	2	A	B

8/13/15

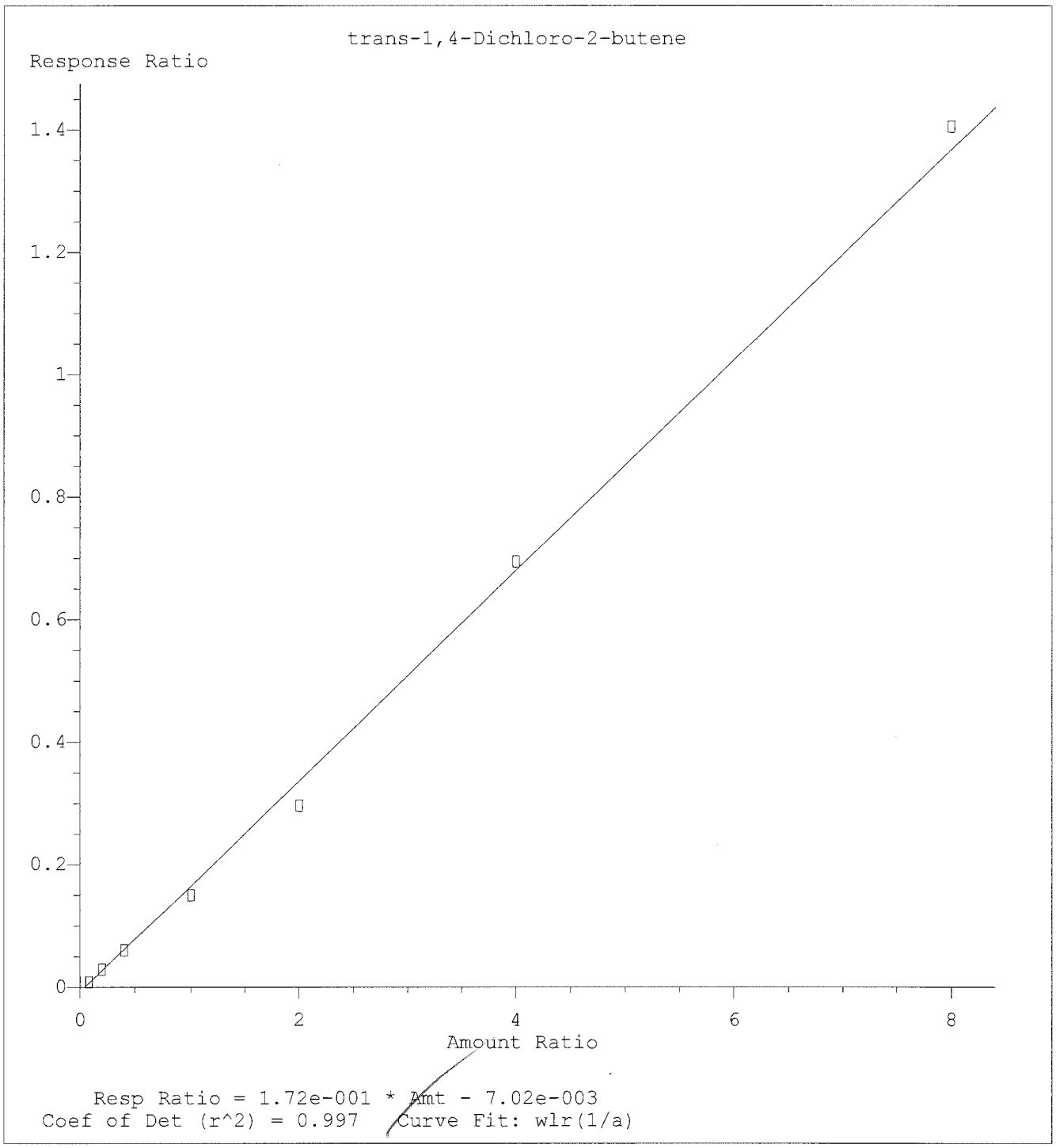
MM 8/13/15

60	T	Styrene	104	16.29	1.067	A	3	A	B
61	T	o-Xylene	106	16.39	1.073	A	2	A	B
62	S	4-Bromofluorobenzene	95	16.95	1.110	A	2	A	B
63	I	1,4-Dichlorobenzene-d4	152	18.77	1.000	A	2	A	B
64	P	Bromoform	173	16.01	0.853	A	1	A	B
65	P	1,1,2,2-Tetrachloroethane	83	16.39	0.873	A	2	A	B
66	T	1,2,3-Trichloropropane	110	16.59	0.884	A	2	A	R
67	T	trans-1,4-Dichloro-2-butene	53	16.62	0.885	L	2	A	B
68	T	Isopropylbenzene	105	16.89	0.900	A	1	A	B
69	T	Bromobenzene	156	17.25	0.919	A	2	A	B
70	T	n-Propylbenzene	91	17.50	0.932	A	1	A	B
71	T	2-Chlorotoluene	91	17.64	0.940	A	1	A	R
72	T	4-Chlorotoluene	91	17.75	0.946	A	1	A	R
73	T	1,3,5-Trimethylbenzene	105	17.91	0.954	A	1	A	B
74	T	tert-Butylbenzene	119	18.30	0.975	A	2	A	B
75	T	1,2,4-Trimethylbenzene	105	18.46	0.983	A	1	A	B
76	T	sec-Butylbenzene	105	18.61	0.991	A	1	A	B
77	T	1,3-Dichlorobenzene	146	18.71	0.997	A	2	A	R
78	T	1,4-Dichlorobenzene	146	18.81	1.002	A	2	A	R
79	T	p-Isopropyltoluene	119	18.85	1.004	A	2	A	B
80	T	1,2-Dichlorobenzene	146	19.28	1.027	A	2	A	B
81	T	n-Butylbenzene	91	19.39	1.033	A	2	A	B
82	T	1,2-Dibromo-3-chloropropane	75	19.86	1.058	Q	2	A	B
83	T	1,2,4-Trichlorobenzene	180	21.51	1.146	A	2	A	B
84	T	Napthalene	128	21.82	1.162	A	1	A	B
85	T	Hexachlorobutadiene	225	21.88	1.166	Q	2	A	B
86	T	1,2,3-Trichlorobenzene	180	22.09	1.177	Q	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

081012.M Mon Aug 13 06:02:11 2012

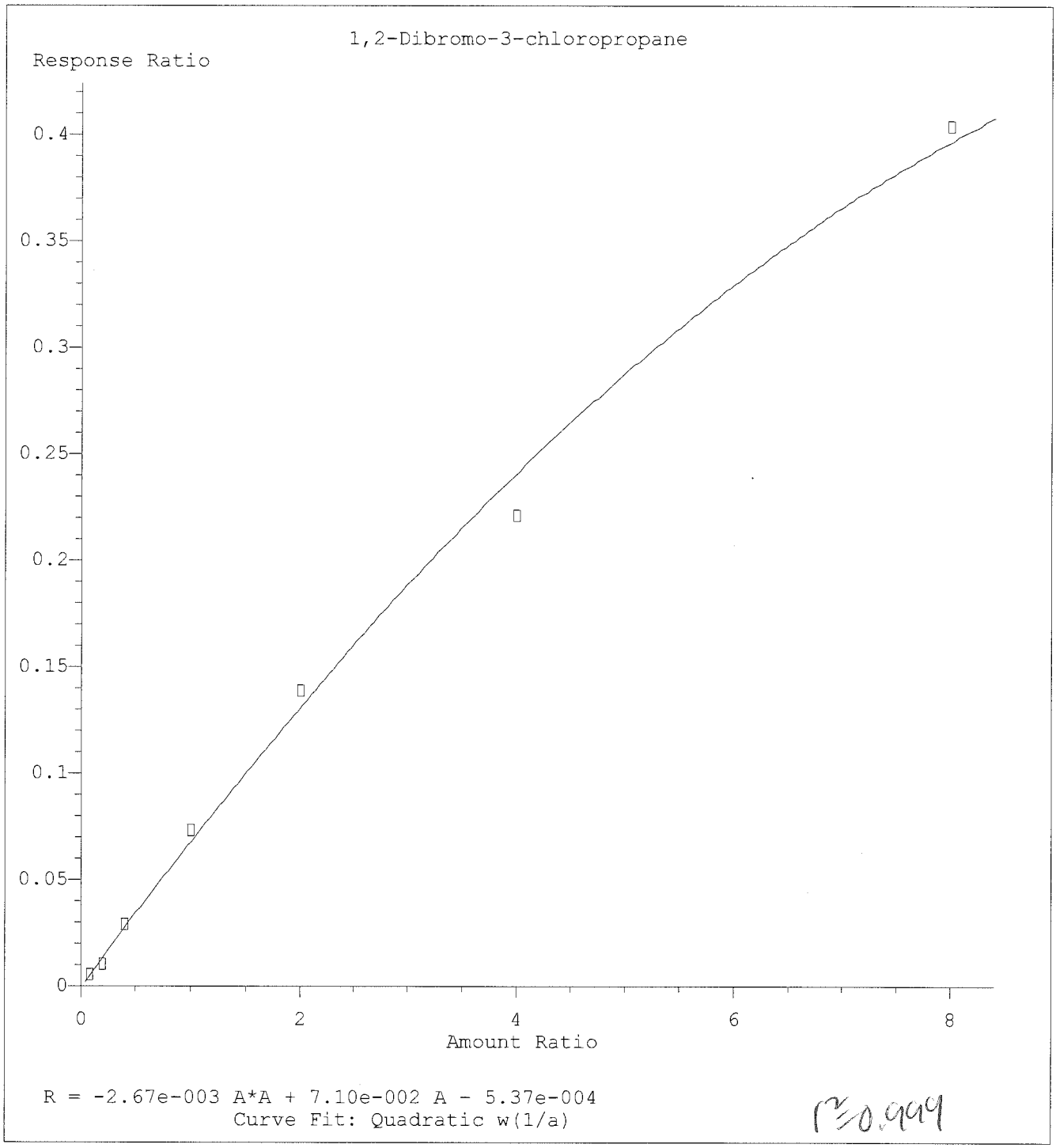
MM



Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM

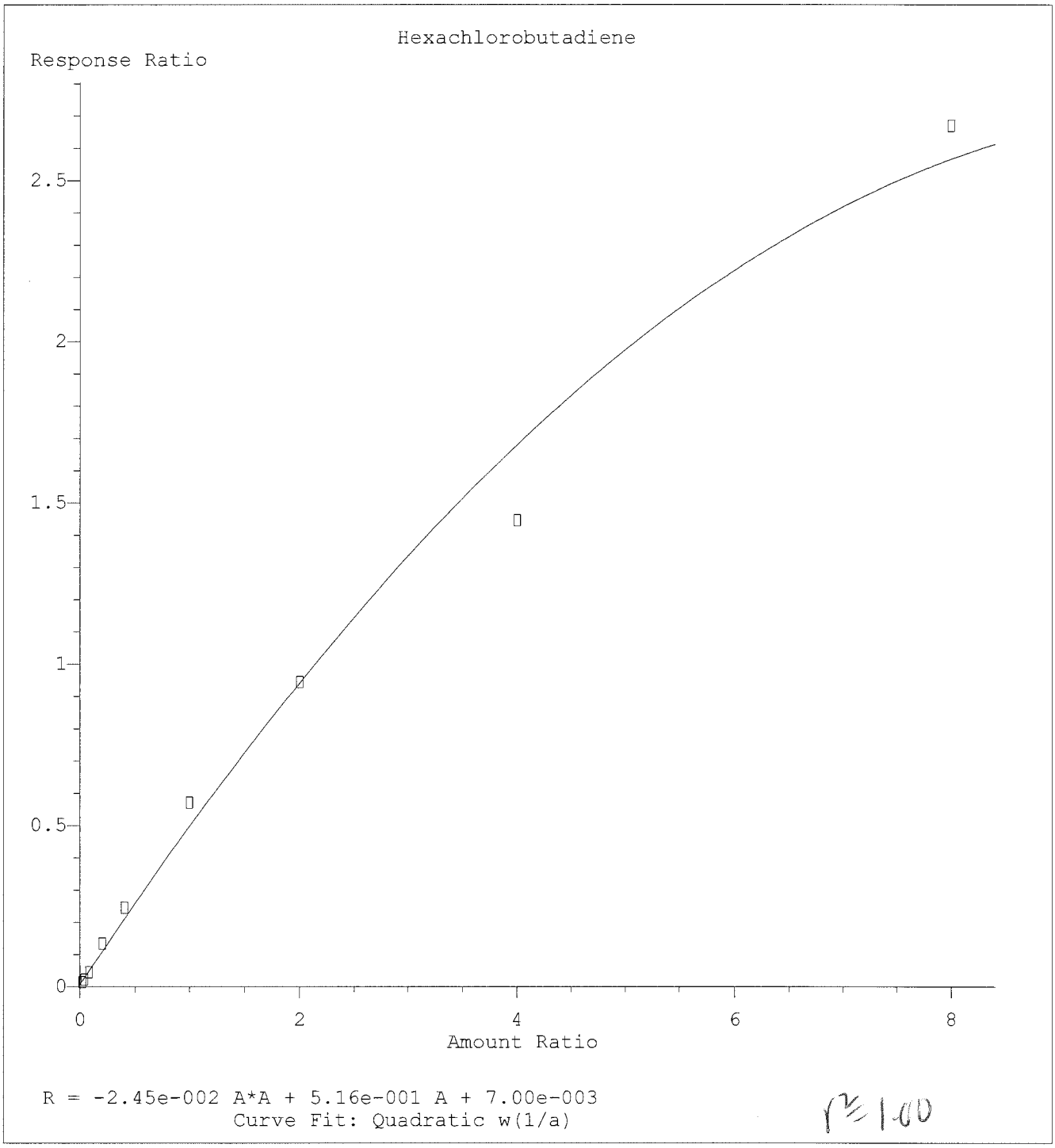


$r^2 \geq 0.999$

8/10/12

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

MM

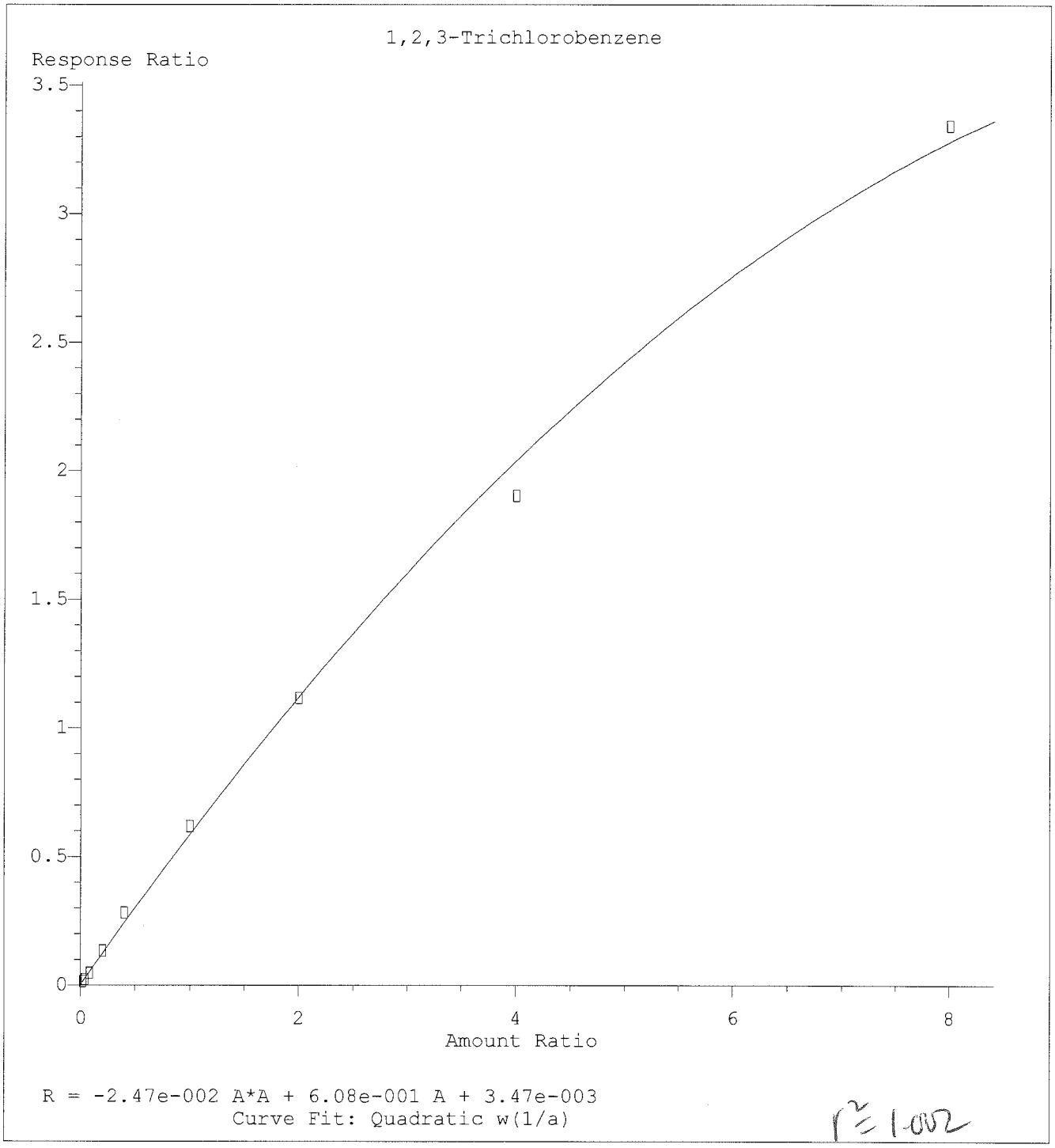


$r^2 = 1.00$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

8/13/12

MM



R = -2.47e-002 A*A + 6.08e-001 A + 3.47e-003
Curve Fit: Quadratic w(1/a)

$r^2 = 1.002$

Method Name: C:\HPCHEM\1\GCMS2\METHODS\081012.M
Calibration Table Last Updated: Fri Aug 10 12:54:45 2012

✓ 8/13/12

MM

RESPONSE FACTOR REPORT

Operator mm
Standard Lot
Reviewed by
GC/MS #2

8/13/12

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

Calibration File
0.5 =08101204.D 1.0 =08101205.D 2.0 =08101206.D 5.0 =08101207.D
25.0 =08101209.D 50.0 =08101210.D 100. =08101211.D 200. =08101212.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD
I	TBA-d9	ISTD										
T	Ethanol					0.104	0.102	0.095	0.115	0.124	0.108	10.55
T	tert-Butanol (TBA)			1.254	1.190	1.109	1.197	1.060	1.124	1.255	1.170	6.38
I	Pentafluorobenzene	ISTD										
T	Dichlorodifluoromethane	0.967	0.932	0.854	0.978	0.935	0.924	0.927	0.885	0.855	0.917	4.83
P	Chloromethane	0.952	0.990	0.857	0.955	0.932	0.885	0.867	0.817	0.778	0.893	7.84
C	Vinyl Chloride	0.867	0.839	0.807	0.954	0.891	0.833	0.805	0.733	0.625	0.817	11.58
T	1,3-Butadiene		0.422	0.420	0.486	0.477	0.452	0.443	0.424	0.410	0.442	6.35
T	Bromomethane		0.511	0.418	0.581	0.544	0.487	0.498	0.482	0.471	0.499	9.78
T	Chloroethane	0.369	0.390	0.399	0.454	0.420	0.409	0.421	0.405	0.380	0.405	6.21
T	Trichlorofluoromethane	0.712	0.711	0.666	0.793	0.770	0.724	0.738	0.700	0.686	0.722	5.52
T	Acetone				0.100	0.108	0.117	0.105	0.114	0.089	0.105	9.67
T	Iodomethane	0.819	0.892	0.854	0.856	0.875	0.831	0.837	0.827	0.804	0.844	3.31
C	1,1-Dichloroethene	0.554	0.578	0.515	0.506	0.504	0.470	0.474	0.467	0.456	0.503	8.26
T	Methylene Chloride		0.495	0.472	0.450	0.456	0.428	0.436	0.432	0.412	0.448	5.90
T	Freon 113	0.549	0.515	0.522	0.572	0.539	0.520	0.506	0.485	0.478	0.521	5.71
T	Carbon disulfide	1.636	1.540	1.521	1.747	1.729	1.653	1.681	1.612	1.593	1.635	4.74
T	trans-1,2-Dichloroethene	0.664	0.593	0.568	0.599	0.600	0.558	0.568	0.548	0.547	0.583	6.28
T	MTBE	0.792	0.864	0.815	0.830	0.848	0.810	0.809	0.838	0.811	0.824	2.75
P	1,1-Dichloroethane	0.878	0.920	0.935	0.973	0.935	0.888	0.892	0.866	0.860	0.905	4.17
T	Vinyl Acetate			0.588	0.619	0.644	0.637	0.647	0.685	0.672	0.642	5.01
	n-Hexane	0.130	0.150	0.145	0.166	0.144	0.137	0.144	0.136	0.136	0.143	7.34
T	2-Butanone (MEK)			0.034	0.035	0.037	0.039	0.033	0.039	0.035	0.036#	6.30
T	Diisopropyl Ether (DIPE)	1.507	1.597	1.590	1.516	1.596	1.473	1.494	1.506	1.474	1.528	3.38
T	cis-1,2-Dichloroethene	0.541	0.563	0.501	0.539	0.557	0.512	0.523	0.521	0.518	0.531	3.88
T	Bromochloromethane	0.209	0.186	0.209	0.204	0.223	0.208	0.219	0.217	0.223	0.211	5.56
C	Chloroform	0.770	0.736	0.805	0.849	0.829	0.794	0.780	0.775	0.788	0.792	4.20
T	2,2-Dichloropropane		0.652	0.634	0.632	0.623	0.582	0.580	0.548	0.545	0.599	6.85
T	(ETBE) 2-ethoxy-2-methyl propane	1.140	1.114	1.142	1.077	1.144	1.059	1.074	1.104	1.074	1.103	3.03
S	Dibromofluoromethane	0.407	0.452	0.483	0.436	0.454	0.430	0.409	0.424	0.440	0.437	5.43
T	Tetrahydrofuran			0.042	0.029	0.034	0.029	0.030	0.034	0.033	0.033#	13.51

mm 8/13/12

T	1,2-Dichloroethane	0.344	0.406	0.417	0.377	0.387	0.374	0.380	0.375	0.378	0.382	5.41
T	1,1,1-Trichloroethane	0.672	0.605	0.642	0.692	0.711	0.677	0.662	0.648	0.661	0.663	4.59
T	(TAME) tert-Amyl methyl ether	0.991	0.860	0.877	0.867	0.863	0.859	0.873	0.935	0.878	0.889	5.02
I	1,4-Difluorobenzene	----------ISTD----------										
T	1,1-Dichloropropene	0.537	0.536	0.511	0.571	0.596	0.525	0.534	0.489	0.513	0.535	6.02
T	Carbon Tetrachloride	0.442	0.388	0.375	0.436	0.445	0.420	0.426	0.409	0.431	0.419	5.73
T	Benzene	1.344	1.239	1.242	1.286	1.326	1.272	1.269	1.246	1.256	1.276	2.93
T	Dibromomethane	0.136	0.148	0.145	0.150	0.158	0.149	0.154	0.156	0.158	0.151	4.73
C	1,2-Dichloropropane	0.308	0.308	0.309	0.302	0.316	0.302	0.296	0.295	0.299	0.304	2.22
T	Trichloroethene	0.354	0.325	0.374	0.387	0.369	0.361	0.355	0.340	0.353	0.358	5.09
T	Bromodichloromethane	0.300	0.310	0.334	0.367	0.373	0.360	0.364	0.372	0.370	0.350	8.06
T	2-Chlorovinylethylether	—	—	0.108	0.097	0.121	0.113	0.119	0.124	0.123	0.115	8.46
T	cis-1,3-Dichloropropene	0.377	0.366	0.384	0.405	0.428	0.422	0.430	0.431	0.427	0.408	6.28
T	4-Methyl-2-Pentanone (MIBK)	—	0.205	0.187	0.169	0.187	0.171	0.175	0.191	0.180	0.183	6.44
T	trans-1,3-Dichloropropene	0.298	0.299	0.278	0.298	0.318	0.316	0.319	0.331	0.335	0.310	5.93
T	1,1,2-Trichloroethane	0.119	0.179	0.179	0.181	0.190	0.185	0.185	0.186	0.188	0.177	12.54
S	Toluene-d8	1.049	0.911	1.086	1.023	1.040	0.992	0.921	0.911	0.952	0.987	6.69
C	Toluene	0.753	0.660	0.734	0.766	0.757	0.722	0.733	0.699	0.707	0.726	4.58
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.365	0.458	0.407	0.467	0.465	0.455	0.453	0.474	0.451	0.444	7.94
T	2-Hexanone	—	—	0.160	0.174	0.182	0.194	0.187	0.216	0.186	0.186	9.32
T	Dibromochloromethane	0.248	0.295	0.288	0.317	0.341	0.337	0.341	0.363	0.365	0.322	12.00
T	1,2-Dibromoethane	0.237	0.251	0.276	0.267	0.288	0.279	0.264	0.283	0.283	0.270	6.27
T	Tetrachloroethene	0.467	0.429	0.415	0.472	0.462	0.459	0.420	0.415	0.425	0.440	5.44
T	1,1,1,2-Tetrachloroethane	0.370	0.327	0.329	0.360	0.373	0.376	0.347	0.341	0.353	0.353	5.20
P	Chlorobenzene	1.007	0.931	1.012	1.075	1.108	1.054	1.029	1.026	0.995	1.026	4.95
C	Ethylbenzene	1.805	1.800	1.618	1.841	1.912	1.875	1.810	1.764	1.708	1.793	4.93
T	m,p-Xylenes	0.655	0.637	0.597	0.704	0.752	0.717	0.702	0.700	0.693	0.684	6.81
T	Styrene	0.888	0.824	0.839	0.876	0.985	0.994	0.955	0.947	0.936	0.916	6.72
T	o-Xylene	0.692	0.604	0.544	0.642	0.700	0.653	0.648	0.597	0.609	0.632	7.75
S	4-Bromofluorobenzene	0.398	0.374	0.403	0.382	0.430	0.384	0.356	0.378	0.371	0.386	5.51
I	1,4-Dichlorobenzene-d4	----------ISTD----------										
P	Bromoform	0.366	0.381	0.372	0.423	0.417	0.418	0.459	0.479	0.557	0.430	14.13
P	1,1,2,2-Tetrachloroethane	0.682	0.648	0.661	0.657	0.760	0.644	0.661	0.660	0.671	0.672	5.23
T	1,2,3-Trichloropropane	—	0.152	0.152	0.170	0.166	0.154	0.160	0.170	0.170	0.162	5.05
T	trans-1,4-Dichloro-2-butene	—	—	0.106	0.144	0.151	0.150	0.148	0.174	0.176	0.150	15.43
T	Isopropylbenzene	3.964	3.555	3.613	3.872	4.007	3.584	3.622	3.547	3.841	3.734	4.96
T	Bromobenzene	0.876	0.806	0.904	0.900	0.955	0.901	0.900	0.927	1.019	0.910	6.30
T	n-Propylbenzene	5.063	4.533	4.406	4.869	5.070	4.617	4.641	4.603	4.857	4.740	4.96
T	2-Chlorotoluene	2.658	2.497	2.645	2.616	2.737	2.424	2.441	2.453	2.592	2.563	4.37
T	4-Chlorotoluene	2.587	2.456	2.405	2.628	2.644	2.367	2.404	2.451	2.614	2.506	4.41
T	1,3,5-Trimethylbenzene	3.001	2.763	2.877	2.992	3.233	2.889	2.859	2.688	2.905	2.912	5.36
T	tert-Butylbenzene	2.848	2.500	2.568	2.674	2.877	2.581	2.543	2.359	2.456	2.601	6.62
T	1,2,4-Trimethylbenzene	2.866	2.631	2.763	2.886	2.995	2.688	2.699	2.561	2.702	2.755	4.98
T	sec-Butylbenzene	4.618	3.925	4.247	4.555	4.681	4.210	4.056	3.714	3.871	4.209	8.29
T	1,3-Dichlorobenzene	1.830	1.585	1.564	1.736	1.809	1.606	1.641	1.522	1.610	1.656	6.63
T	1,4-Dichlorobenzene	1.863	1.547	1.603	1.623	1.731	1.562	1.586	1.530	1.565	1.623	6.63

Untitled

T	p-Isopropyltoluene	3.147	3.133	3.086	3.325	3.518	3.188	3.136	2.869	2.980	3.154	5.94
T	1,2-Dichlorobenzene	1.555	1.360	1.332	1.386	1.456	1.330	1.342	1.172	1.199	1.348	8.70
T	n-Butylbenzene	3.068	2.923	2.932	3.235	3.424	3.092	3.023	2.758	2.761	3.024	7.11
T	1,2-Dibromo-3-chloropropane	—	—	0.070	0.053	0.073	0.073	0.069	0.055	0.051	0.063#	15.93
T	1,2,4-Trichlorobenzene	0.834	0.622	0.721	0.802	0.873	0.763	0.720	0.591	0.578	0.723	14.76
T	Napthalene	1.328	1.259	1.077	1.222	1.370	1.214	1.090	0.962	0.886	1.156	14.17
T	Hexachlorobutadiene	0.765	0.578	0.568	0.673	0.613	0.571	0.472	0.362	0.334	0.549	25.40
T	1,2,3-Trichlorobenzene	0.768	0.594	0.601	0.674	0.707	0.618	0.559	0.476	0.418	0.602	18.17

(#) = Out of Range

081012.M Mon Aug 13 06:02:31 2012

mm

ANALYTICAL DATA

METHOD: 8260

DATE: 09/17/12

WORK ORDER: PVI0867

Injection Log

Directory: C:\HPCHEM\1\GCMS2\DATA\091712

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	09171201.d	1.	TUNE		17 Sep 2012 04:17
2	2	09171202.d	1.	25 PPB CCV		17 Sep 2012 04:52
3	3	09171203.d	1.	12I0548-BS1		17 Sep 2012 05:25
4	4	09171204.d	1.	12I0548-BSD1		17 Sep 2012 05:58
5	5	09171205.d	1.	12I0548-BLK1		17 Sep 2012 06:31
6	6	09171206.d	1.	PVI0720-02		17 Sep 2012 07:03
7	7	09171207.d	1.	PVI0867-01		17 Sep 2012 07:36
8	8	09171208.d	1.	PVI0875-07		17 Sep 2012 08:09
9	9	09171209.d	1.	PVI0876-05		17 Sep 2012 08:41
10	10	09171210.d	1.	PVI0875-01		17 Sep 2012 09:14
11	11	09171211.d	1.	12I0548-MS1		17 Sep 2012 09:47
12	12	09171212.d	1.	12I0548-MSD1		17 Sep 2012 10:19
13	13	09171213.d	1.	PVI0875-02		17 Sep 2012 10:52
14	14	09171214.d	1.	PVI0875-03		17 Sep 2012 11:25
15	15	09171215.d	1.	PVI0875-04		17 Sep 2012 11:57
16	16	09171216.d	1.	PVI0875-05		17 Sep 2012 12:30
17	17	09171217.d	1.	PVI0875-06		17 Sep 2012 13:02
18	18	09171218.d	1.	PVI0867-02		17 Sep 2012 13:35
19	19	09171219.d	1.	PVI0867-03		17 Sep 2012 14:08
20	20	09171220.d	1.	PVI0867-04		17 Sep 2012 14:40
21	21	09171221.d	1.	PVI0876-01	50X	17 Sep 2012 15:13
22	1	09171222.d	1.	TUNE		17 Sep 2012 15:39
23	2	09171223.d	1.	25 PPB CCV		17 Sep 2012 15:56
24	3	09171224.d	1.	12I0588-BS1		17 Sep 2012 16:29
25	4	09171225.d	1.	12I0588-BSD1		17 Sep 2012 17:02
26	5	09171226.d	1.	12I0588-BLK1		17 Sep 2012 17:35
27	6	09171227.d	1.	12I0588-BLK2		17 Sep 2012 18:07
28	7	09171228.d	1.	PVI0785-01		17 Sep 2012 18:40
29	8	09171229.d	1.	12I0588-MS1		17 Sep 2012 19:13
30	9	09171230.d	1.	12I0588-MSD1		17 Sep 2012 19:45
31	10	09171231.d	1.	PVI0943-01		17 Sep 2012 20:18
32	11	09171232.d	1.	PVI0992-01		17 Sep 2012 20:50
33	12	09171233.d	1.	PVI0992-02		17 Sep 2012 21:23
34	13	09171234.d	1.	PVI0992-03		17 Sep 2012 21:56
35	14	09171235.d	1.	PVI0992-04		17 Sep 2012 22:28
36	15	09171236.d	1.	PVI0964-01		17 Sep 2012 23:01
37	16	09171237.d	1.	PVI0674-01	100X	17 Sep 2012 23:33
38	17	09171238.d	1.	PVI0899-01		18 Sep 2012 00:06
39	18	09171239.d	1.	PVI0909-04		18 Sep 2012 00:39
40	19	09171240.d	1.	PVI0909-05	100X	18 Sep 2012 01:11
41	20	09171241.d	1.	PVI0909-07		18 Sep 2012 01:44
42	21	09171242.d	1.	PVI0909-08		18 Sep 2012 02:17
43	22	09171243.d	1.	PVI0909-09		18 Sep 2012 02:49
44	23	09171244.d	1.	PVI0909-10	100X	18 Sep 2012 03:22

9/18/12

VC 091812

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/17/12
ANALYST: mm
CALIBRATION METHOD(S): 081012 M

QC BATCH # (s): 1210548/588/371/48
SEQUENCE FILE: C:\GCMS2\DATA\ 091712.S

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	09171201	Tune	2 µL	NA	8260	NA	
2	02	25 ppb CCV	✓	↓	↓	H_2O	
3	03	1210548-BS1	✓	↓	↓	↓	12DBCP, 1tx↑
4	04	-BSD1	✓	↓	↓	↓	
5	05	-BLK1	✓	↓	↓	↓	
6	06	PV10720-02	✓	✓	↓	↓	
7	07	867-01A	✓	✓	↓	↓	AIDQ comp.
8	08	875-07A	✓	✓	↓	↓	TB
9	09	876-05A	✓	✓	↓	↓	TB
10	10	875-01A	✓	✓	↓	↓	TB
11	11	1210548-MS1	✓	✓	↓	↓	Source RR@10A TCE
12	12	-MSD1	✓	✓	↓	↓	
13	13	PV10875-02A	✓	✓	↓	↓	
14	14	-03A	✓	✓	↓	↓	RR for TCE - c/o
15	15	-04A	✓	✓	↓	↓	
16	16	-05A	✓	✓	↓	↓	
17	17	-06A	✓	✓	↓	↓	
18	18	867-02A	✓	✓	↓	↓	
19	19	-03A	✓	✓	↓	↓	
20	20	-04A	✓	✓	↓	↓	
21	21	876-01A	20µL→1mL	✓	↓	↓	SUX odor
/	22	Tune	2 mL	NA	8260	NA	
2	23	25 ppb CCV	✓	↓	↓	H_2O	
3	24	12I0588-BS1	✓	↓	↓	↓	
4	25	-BSD1	✓	↓	↓	↓	
5	26	-BLK1	100 mL	↓	↓	TCLP	(12I0524)
6	27	-BLK2	100 mL	↓	↓	↓	(12I0525)
7	28	PVI0785-01	100 mL	↓	↓	↓	Source
8	29	12I0588-MS1	100 mL	↓	↓	↓	
9	30	-MSD1	100 mL	↓	↓	↓	

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05577/5606
CCV/CALIBRATION STD: PV05635/5431
Internal Std: 5519
IS/Surrogate/BFB: 5523/5230
** 9/17/12

REQUIRED REVIEWS

25 ppb CCV PREPARATION: 5µL CAL Std + 5µL IS/Sm H_2O
20 ppb CCV PREPARATION: NA
ARCHON REVIEWED By/Date: 9/18/12
SEQUENCE REVIEWED By/Date: ↓
FINAL REVIEWER / Date: 9/18/12

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 9/17/12 cont.
ANALYST: [illegible]
CALIBRATION METHOD(S): See

QC BATCH # (s) : P 67
SEQUENCE FILE: C:\GCMS2\DATA\

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 20mL ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
10	09 17 12 31	PVI0943-01	100mL	NA	8260	TLP	86L 14F
11	32	0922-01	100mL				
12	33	-02	100mL				
13	34	-03	100mL				
14	35	-04	100mL				
15	36	0964-01	100mL				PT ~~PR all~~ 9/18/12
16	37	674-01A@100X	2mL→10mL			SOIL	X, 124, Naph 371
17	38	899-01A	✓				DR-↑Surr-RR522
18	39	0909-04A	✓				484
19	40	-05A@100X	2mL→10mL ✓ *				odor
20	41	-07A	✓				
21	42	-08A	✓				PR 50x all - DNU
22	43	-09A	✓				PR c/o all 5x
23	49	-10A@100X	2mL→10mL ✓ *				odor PR 10x 911

* 9/17/12

STANDARD ID NUMBERS

ICV / H_2O LCS:
CCV/CALIBRATION STD: 67
Internal Std: P
IS/Surrogate/BFB: See

REQUIRED REVIEWS

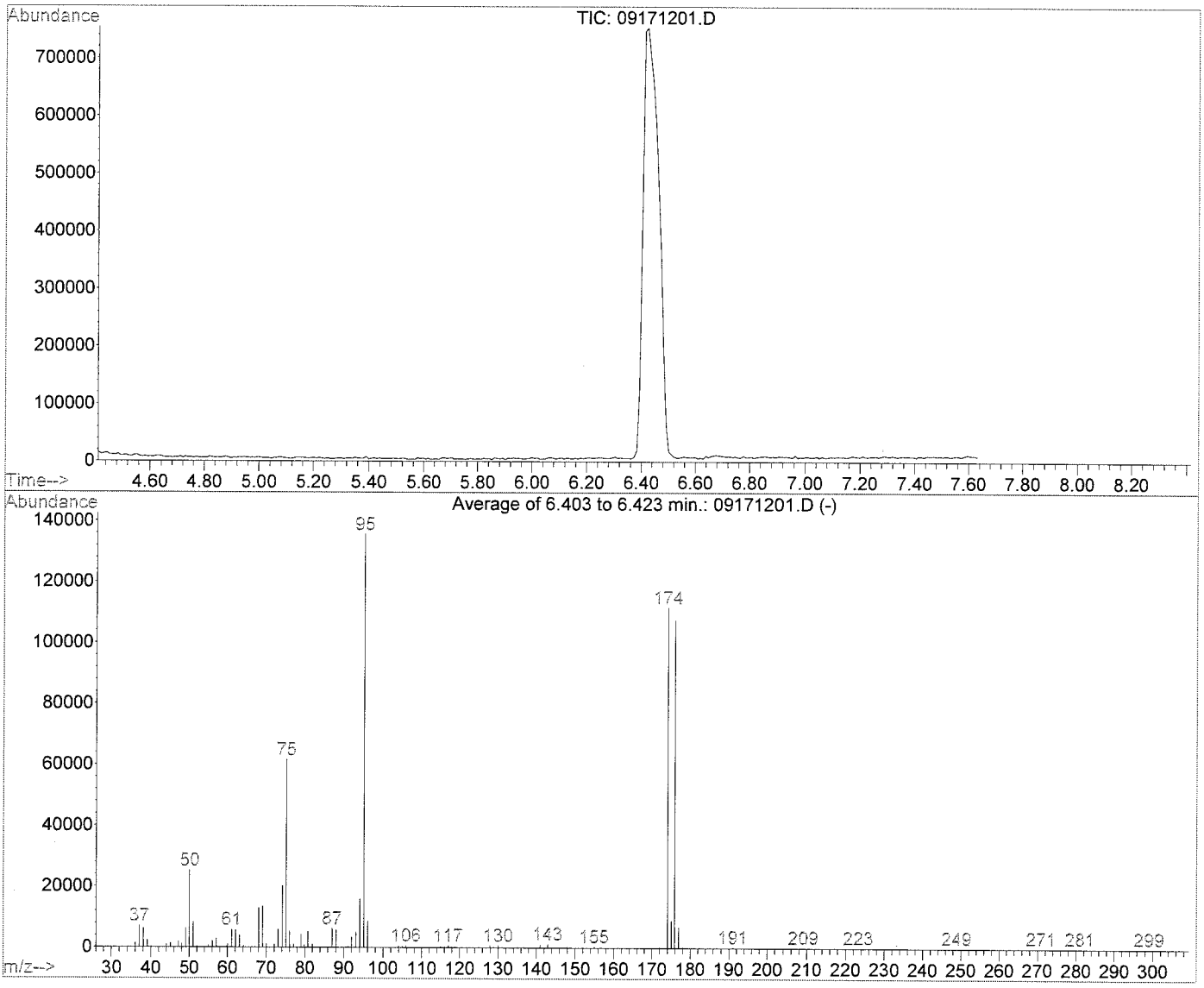
25 ppb CCV PREPARATION:
20 ppb CCV PREPARATION: 67
ARCHON REVIEWED By/Date: P
SEQUENCE REVIEWED By/Date: See
FINAL REVIEWER / Date: 9/18/12

* 9/18/12

BFB

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171201.D Vial: 1
Acq On : 17 Sep 2012 4:17 am Operator: MNM
Sample : TUNE Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration

9/18/12



Spectrum Information: Average of 6.403 to 6.423 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	25157	PASS
75	95	30	60	45.4	61483	PASS
95	95	100	100	100.0	135512	PASS
96	95	5	9	6.4	8619	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.4	111619	PASS
175	174	5	9	7.9	8864	PASS
176	174	95	101	96.2	107427	PASS
177	176	5	9	6.4	6829	PASS

JC 09/18/12

09171201.D 081012.M Mon Sep 17 13:51:06 2012

624 CUSTOM REPORT

Data File Name	09171202.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091712\
Operator	MNM
Date Acquired	9/17/2012 4:52
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/18/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	84045	52594	26297	105188	TRUE
4)	Pentafluorobenzene	301421	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	413876	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	301596	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	123210	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F
2)	Ethanol	735.05	250	294.02	36	150	FALSE NT
3)	tert-Butanol (TBA)	117.15	125	93.72	70	134	TRUE
5)	Dichlorodifluoromethane	23.41	25	93.65	60	140	TRUE
6)	Chloromethane	23.97	25	95.87	0	204	TRUE
7)	Vinyl Chloride	27.27	25	109.08	4	196	TRUE
8)	1,3-Butadiene	27.46	25	109.84	50	141	TRUE
9)	Bromomethane	26.99	25	107.97	14	186	TRUE
10)	Chloroethane	25.95	25	103.81	38	162	TRUE
11)	Trichlorofluoromethane	30.52	25	122.09	48	152	TRUE
12)	Acetone	35.22	25	140.88	12	150	TRUE
13)	Iodomethane	27.31	25	109.26	40	150	TRUE
14)	1,1-Dichloroethene	27.65	25	110.62	50	150	TRUE
15)	Methylene Chloride	27.73	25	110.94	60	140	TRUE
16)	Freon 113	29.39	25	117.54	76	124	TRUE
17)	Carbon disulfide	25.79	25	103.14	64	136	TRUE
18)	trans-1,2-Dichloroethene	23.78	25	95.13	70	130	TRUE
19)	MTBE	26.15	25	104.59	64	140	TRUE
20)	1,1-Dichloroethane	24.97	25	99.87	72	128	TRUE
21)	Vinyl Acetate	21.66	25	86.65	48	150	TRUE
22)	n-Hexane	24.23	25	96.90	56	150	TRUE
23)	2-Butanone (MEK)	29.10	25	116.38	44	150	TRUE
24)	Diisopropyl Ether (DIPE)	23.06	25	92.24	72	132	TRUE
25)	cis-1,2-Dichloroethene	24.44	25	97.75	72	128	TRUE
26)	Bromochloromethane	26.13	25	104.53	72	132	TRUE
27)	Chloroform	26.53	25	106.13	68	132	TRUE
28)	2,2-Dichloropropane	30.10	25	120.39	64	140	TRUE
29)	(ETBE) 2-ethoxy-2-methyl propan	26.20	25	104.78	72	140	TRUE
30)	**Dibromofluoromethane**	**27.41**	25	109.63	80	120	**TRUE**
31)	Tetrahydrofuran	21.50	25	86.01	64	139	TRUE
32)	1,2-Dichloroethane	29.32	25	117.28	68	132	TRUE
33)	1,1,1-Trichloroethane	30.09	25	120.37	75	125	TRUE
34)	(TAME) tert-Amyl methyl ether	25.62	25	102.50	68	140	TRUE
36)	1,1-Dichloropropene	24.74	25	98.98	76	128	TRUE
37)	Carbon Tetrachloride	32.27	25	129.10	73	127	FALSE
38)	Benzene	24.61	25	98.45	64	136	TRUE

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39)	Dibromomethane	26.85	25	107.38	72	132	TRUE
40)	1,2-Dichloropropane	23.93	25	95.74	34	166	TRUE
41)	Trichloroethene	24.51	25	98.04	66	133	TRUE
42)	Bromodichloromethane	29.24	25	116.97	66	134	TRUE
43)	2-Chlorovinylethylether	17.29	25	69.16	0	224	TRUE
44)	cis-1,3-Dichloropropene	26.27	25	105.07	24	176	TRUE
45)	4-Methyl-2-Pentanone (MIBK)	22.90	25	91.61	60	144	TRUE
46)	trans-1,3-Dichloropropene	27.02	25	108.08	50	150	TRUE
47)	1,1,2-Trichloroethane	26.45	25	105.81	71	129	TRUE
48)	**Toluene-d8**	**25.25**	25	101.01	80	120	**TRUE**
49)	Toluene	25.34	25	101.36	74	126	TRUE
51)	1,3-Dichloropropane	25.52	25	102.07	80	124	TRUE
52)	2-Hexanone	27.36	25	109.42	52	150	TRUE
53)	Dibromochloromethane	28.32	25	113.29	68	132	TRUE
54)	1,2-Dibromoethane	26.77	25	107.09	80	128	TRUE
55)	Tetrachloroethene	24.07	25	96.26	74	126	TRUE
56)	1,1,1,2-Tetrachloroethane	26.76	25	107.05	76	124	TRUE
57)	Chlorobenzene	25.74	25	102.96	66	134	TRUE
58)	Ethylbenzene	26.09	25	104.37	59	141	TRUE
59)	m,p-Xylenes	26.05	25	104.22	80	120	TRUE
60)	Styrene	26.82	25	107.28	84	124	TRUE
61)	o-Xylene	25.39	25	101.54	72	128	TRUE
62)	**4-Bromofluorobenzene**	**26.44**	25	105.74	80	120	**TRUE**
64)	Bromoform	29.44	25	117.76	71	129	TRUE
65)	1,1,2,2-Tetrachloroethane	26.29	25	105.16	61	140	TRUE
66)	1,2,3-Trichloropropane	29.04	25	116.14	76	128	TRUE
67)	trans-1,4-Dichloro-2-butene	21.36	25	85.46	48	138	TRUE
68)	Isopropylbenzene	26.49	25	105.95	76	132	TRUE
69)	Bromobenzene	26.66	25	106.63	76	128	TRUE
70)	n-Propylbenzene	26.53	25	106.12	76	132	TRUE
71)	2-Chlorotoluene	27.10	25	108.38	80	124	TRUE
72)	4-Chlorotoluene	26.67	25	106.70	80	124	TRUE
73)	1,3,5-Trimethylbenzene	27.98	25	111.93	80	128	TRUE
74)	tert-Butylbenzene	28.94	25	115.76	76	132	TRUE
75)	1,2,4-Trimethylbenzene	28.43	25	113.71	80	128	TRUE
76)	sec-Butylbenzene	26.86	25	107.44	80	128	TRUE
77)	1,3-Dichlorobenzene	25.69	25	102.75	73	127	TRUE
78)	1,4-Dichlorobenzene	25.65	25	102.60	63	137	TRUE
79)	p-Isopropyltoluene	28.38	25	113.52	80	128	TRUE
80)	1,2-Dichlorobenzene	25.87	25	103.46	63	137	TRUE
81)	n-Butylbenzene	26.34	25	105.35	76	132	TRUE
82)	1,2-Dibromo-3-chloropropane	33.11	25	132.45	64	128	FALSE
83)	1,2,4-Trichlorobenzene	28.83	25	115.34	76	128	TRUE
84)	Napthalene	27.17	25	108.66	68	136	TRUE
85)	Hexachlorobutadiene	35.56	25	142.26	76	132	FALSE
86)	1,2,3-Trichlorobenzene	28.58	25	114.32	72	128	TRUE

8260 CCV/ICV CUSTOM REPORT

Data File Name	09171202.D
Data File Path	C:\HPCHEM\1\GCMS2\DATA\091712\
Operator	MNM
Date Acquired	9/17/2012 4:52
Acq. Method File	8260
Sample Name	25 PPB CCV
Instrument Name	GC/MS #2

9/18/12

Note: TBA-d9 limits not monitored.

#	Name	Target Res.	I-CAL Res.	Low	High	T/F
1)	TBA-d9	84045	52594	26297	105188	TRUE
4)	Pentafluorobenzene	301421	281321	140660.5	562642	TRUE
35)	1,4-Difluorobenzene	413876	390934	195467	781868	TRUE
50)	Chlorobenzene-d5	301596	273128	136564	546256	TRUE
63)	1,4-Dichlorobenzene-d4	123210	125555	62777.5	251110	TRUE

#	Name	Amount	Spike Amt.	%REC.	Low	High	T/F	
2)	Ethanol	735.05	250	294%	36%	150%	FALSE	NT
3)	tert-Butanol (TBA)	117.15	125	94%	70%	134%	TRUE	
5)	Dichlorodifluoromethane	23.41	25	94%	60%	140%	TRUE	
6)	Chloromethane	23.97	25	96%	48%	144%	TRUE	
7)	Vinyl Chloride	27.27	25	109%	80%	120%	TRUE	CCC
8)	1,3-Butadiene	27.46	25	110%	50%	141%	TRUE	
9)	Bromomethane	26.99	25	108%	40%	144%	TRUE	
10)	Chloroethane	25.95	25	104%	60%	132%	TRUE	
11)	Trichlorofluoromethane	30.52	25	122%	68%	136%	TRUE	
12)	Acetone	35.22	25	141%	12%	150%	TRUE	
13)	Iodomethane	27.31	25	109%	40%	160%	TRUE	
14)	1,1-Dichloroethene	27.65	25	111%	80%	120%	TRUE	CCC
15)	Methylene Chloride	27.73	25	111%	68%	128%	TRUE	
16)	Freon 113	29.39	25	118%	76%	124%	TRUE	
17)	Carbon disulfide	25.79	25	103%	64%	136%	TRUE	
18)	trans-1,2-Dichloroethene	23.78	25	95%	76%	120%	TRUE	
19)	MTBE	26.15	25	105%	64%	140%	TRUE	
20)	1,1-Dichloroethane	24.97	25	100%	72%	124%	TRUE	
21)	Vinyl Acetate	21.66	25	87%	48%	150%	TRUE	
22)	n-Hexane	24.23	25	97%	56%	150%	TRUE	
23)	2-Butanone (MEK)	29.10	25	116%	44%	150%	TRUE	
24)	Diisopropyl Ether (DIPE)	23.06	25	92%	72%	132%	TRUE	
25)	cis-1,2-Dichloroethene	24.44	25	98%	72%	128%	TRUE	
26)	Bromochloromethane	26.13	25	105%	72%	132%	TRUE	
27)	Chloroform	26.53	25	106%	80%	120%	TRUE	CCC
28)	2,2-Dichloropropane	30.10	25	120%	64%	140%	TRUE	
29)	(ETBE) 2-ethoxy-2-methyl prop:	26.20	25	105%	72%	140%	TRUE	
30)	**Dibromofluoromethane**	**27.41**	**25**	110%	80%	120%	**TRUE**	
31)	Tetrahydrofuran	21.50	25	86%	64%	139%	TRUE	
32)	1,2-Dichloroethane	29.32	25	117%	68%	136%	TRUE	
33)	1,1,1-Trichloroethane	30.09	25	120%	72%	132%	TRUE	
34)	(TAME) tert-Amyl methyl ether	25.62	25	102%	68%	140%	TRUE	
36)	1,1-Dichloropropene	24.74	25	99%	76%	128%	TRUE	
37)	Carbon Tetrachloride	32.27	25	129%	72%	136%	TRUE	
38)	Benzene	24.61	25	98%	76%	120%	TRUE	

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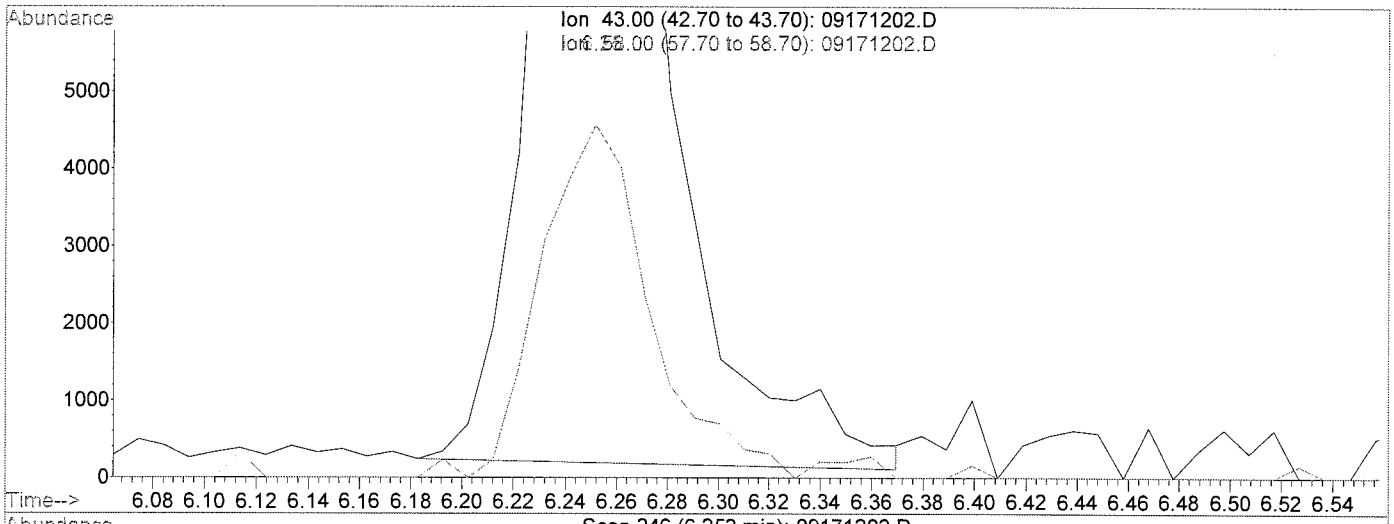
39)	Dibromomethane	26.85	25	107%	72%	132%	TRUE	
40)	1,2-Dichloropropane	23.93	25	96%	80%	120%	TRUE	CCC
41)	Trichloroethene	24.51	25	98%	80%	120%	TRUE	
42)	Bromodichloromethane	29.24	25	117%	76%	128%	TRUE	
43)	2-Chlorovinylethylether	17.29	25	69%	10%	150%	TRUE	
44)	cis-1,3-Dichloropropene	26.27	25	105%	76%	136%	TRUE	
45)	4-Methyl-2-Pentanone (MIBK)	22.90	25	92%	60%	144%	TRUE	
46)	trans-1,3-Dichloropropene	27.02	25	108%	68%	140%	TRUE	
47)	1,1,2-Trichloroethane	26.45	25	106%	72%	132%	TRUE	
48)	**Toluene-d8**	**25.25**	**25**	101%	80%	120%	**TRUE**	
49)	Toluene	25.34	25	101%	80%	120%	TRUE	CCC
51)	1,3-Dichloropropane	25.52	25	102%	80%	124%	TRUE	
52)	2-Hexanone	27.36	25	109%	52%	150%	TRUE	
53)	Dibromochloromethane	28.32	25	113%	80%	128%	TRUE	
54)	1,2-Dibromoethane	26.77	25	107%	80%	128%	TRUE	
55)	Tetrachloroethene	24.07	25	96%	76%	128%	TRUE	
56)	1,1,1,2-Tetrachloroethane	26.76	25	107%	76%	124%	TRUE	
57)	Chlorobenzene	25.74	25	103%	80%	120%	TRUE	
58)	Ethylbenzene	26.09	25	104%	80%	120%	TRUE	CCC
59)	m,p-Xylenes	26.05	25	104%	80%	120%	TRUE	
60)	Styrene	26.82	25	107%	84%	124%	TRUE	
61)	o-Xylene	25.39	25	102%	72%	128%	TRUE	
62)	**4-Bromofluorobenzene**	**26.44**	**25**	106%	80%	120%	**TRUE**	
64)	Bromoform	29.44	25	118%	68%	132%	TRUE	
65)	1,1,2,2-Tetrachloroethane	26.29	25	105%	68%	132%	TRUE	
66)	1,2,3-Trichloropropane	29.04	25	116%	76%	128%	TRUE	
67)	trans-1,4-Dichloro-2-butene	21.36	25	85%	48%	138%	TRUE	
68)	Isopropylbenzene	26.49	25	106%	76%	132%	TRUE	
69)	Bromobenzene	26.66	25	107%	76%	128%	TRUE	
70)	n-Propylbenzene	26.53	25	106%	76%	132%	TRUE	
71)	2-Chlorotoluene	27.10	25	108%	80%	124%	TRUE	
72)	4-Chlorotoluene	26.67	25	107%	80%	124%	TRUE	
73)	1,3,5-Trimethylbenzene	27.98	25	112%	80%	128%	TRUE	
74)	tert-Butylbenzene	28.94	25	116%	76%	132%	TRUE	
75)	1,2,4-Trimethylbenzene	28.43	25	114%	80%	128%	TRUE	
76)	sec-Butylbenzene	26.86	25	107%	80%	128%	TRUE	
77)	1,3-Dichlorobenzene	25.69	25	103%	80%	124%	TRUE	
78)	1,4-Dichlorobenzene	25.65	25	103%	76%	120%	TRUE	
79)	p-Isopropyltoluene	28.38	25	114%	80%	128%	TRUE	
80)	1,2-Dichlorobenzene	25.87	25	103%	80%	124%	TRUE	
81)	n-Butylbenzene	26.34	25	105%	76%	132%	TRUE	
82)	1,2-Dibromo-3-chloropropane	33.11	25	132%	64%	128%	FALSE	C
83)	1,2,4-Trichlorobenzene	28.83	25	115%	76%	128%	TRUE	
84)	Napthalene	27.17	25	109%	68%	136%	TRUE	
85)	Hexachlorobutadiene	35.56	25	142%	76%	132%	FALSE	C
86)	1,2,3-Trichlorobenzene	28.58	25	114%	72%	128%	TRUE	

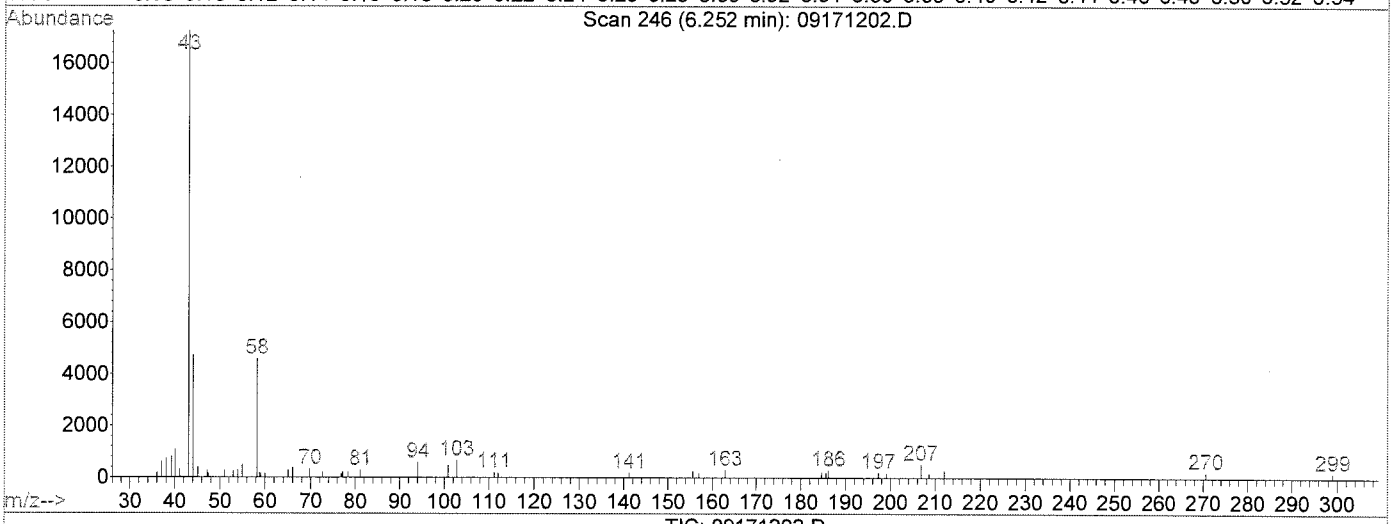
T

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





9/18/12

(12) Acetone (T)

6.25min 39.99ug/L

response 50751

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.91
0.00	0.00	0.00
0.00	0.00	0.00

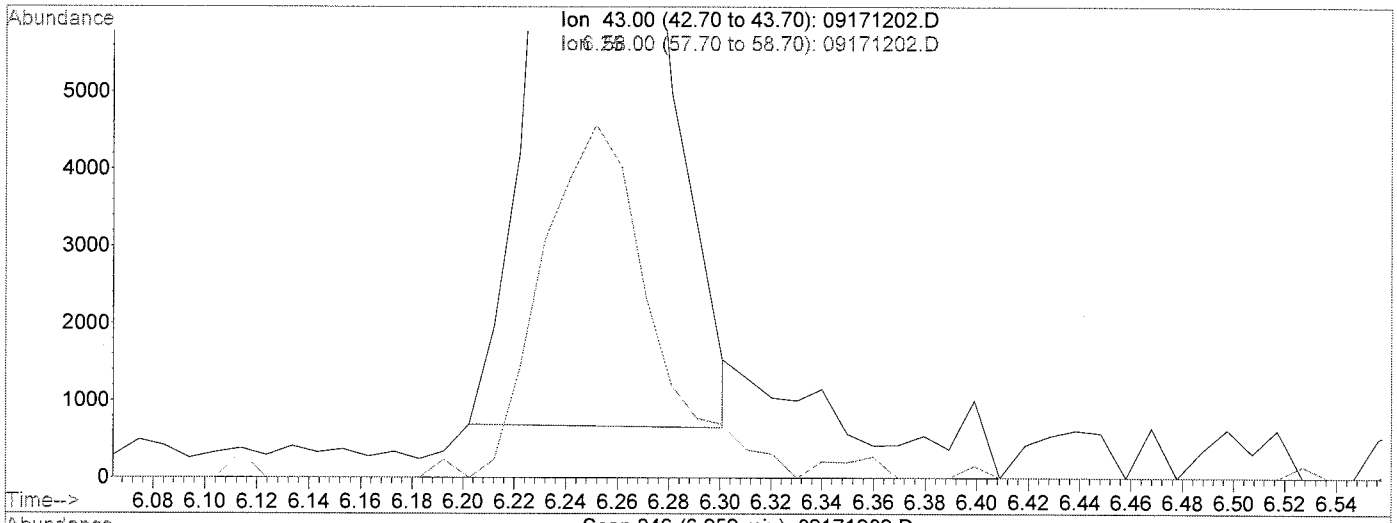
Before-BT
LC 09/18/12

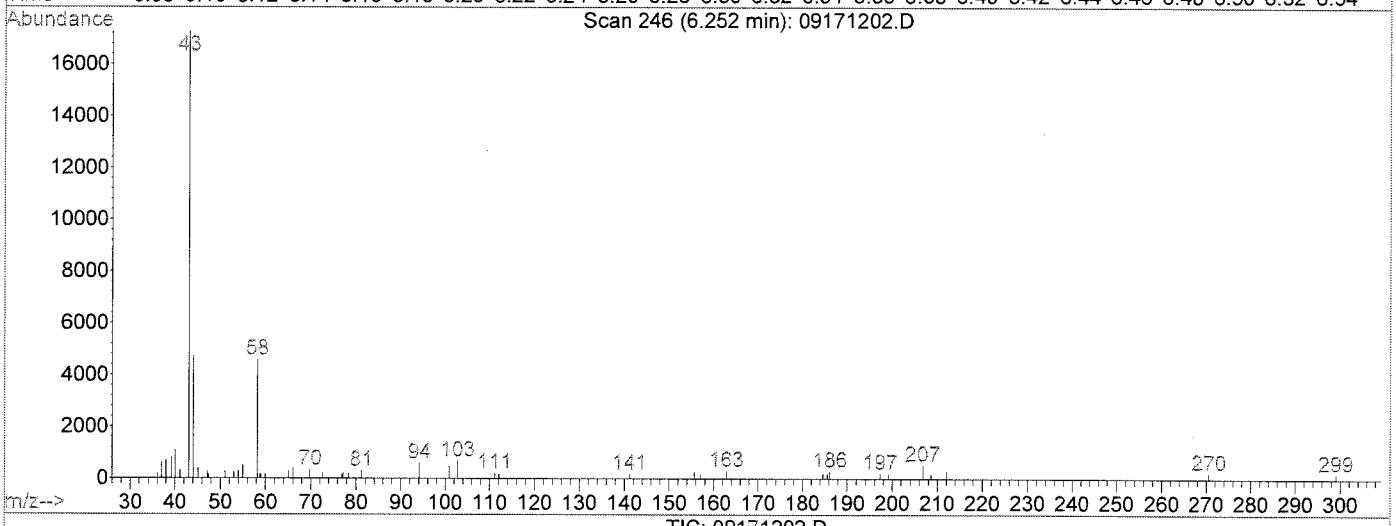
09171202.D 081012.M Mon Sep 17 13:51:28 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:51 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09171202.D

9/18/12

(12) Acetone (T)

6.25min 35.22ug/L m

response 44693

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	30.55
0.00	0.00	0.00
0.00	0.00	0.00

After 10/18/12

09171202.D 081012.M Mon Sep 17 13:51:35 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:51 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	84045	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	301421	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	413876	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	301596	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	123210	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	144488	27.41 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 109.64%	
48) Toluene-d8	13.31	98	412755	25.25 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 101.00%	
62) 4-Bromofluorobenzene	16.94	95	123205	26.44 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 105.76%	
Target Compounds					Qvalue
2) Ethanol	5.40	45	33306	735.05 ug/L	79
3) tert-Butanol (TBA)	6.82	59	57592	117.15 ug/L	98
5) Dichlorodifluoromethane	4.11	85	258945	23.41 ug/L	99
6) Chloromethane	4.34	50	257967	23.97 ug/L	97
7) Vinyl Chloride	4.63	62	268600	27.27 ug/L	99
8) 1,3-Butadiene	4.79	54	146295	27.46 ug/L	98
9) Bromomethane	5.18	94	162368	26.99 ug/L	97
10) Chloroethane	5.38	64	126785	25.95 ug/L	98
11) Trichlorofluoromethane	6.10	101	265764	30.52 ug/L	98
12) Acetone	6.25	43	44693m	35.22 ug/L	
13) Iodomethane	6.85	142	277953	27.31 ug/L	92
14) 1,1-Dichloroethene	6.79	96	167579	27.65 ug/L	96
15) Methylene Chloride	6.99	84	149643	27.73 ug/L	99
16) Freon 113	7.06	101	184449	29.39 ug/L	98
17) Carbon disulfide	7.29	76	508216	25.79 ug/L	99
18) trans-1,2-Dichloroethene	7.85	96	167151	23.78 ug/L	97
19) MTBE	7.99	73	259820	26.15 ug/L	99
20) 1,1-Dichloroethane	8.17	63	272476	24.97 ug/L	99
21) Vinyl Acetate	8.33	43	167587	21.66 ug/L	99
22) n-Hexane	8.68	86	41791	24.23 ug/L	75
23) 2-Butanone (MEK)	8.71	72	12632	29.10 ug/L #	89
24) Diisopropyl Ether (DIPE)	8.73	45	424871	23.06 ug/L	96
25) cis-1,2-Dichloroethene	8.90	96	156347	24.44 ug/L	99
26) Bromochloromethane	9.10	128	66361	26.13 ug/L	90
27) Chloroform	9.16	83	253305	26.53 ug/L #	95
28) 2,2-Dichloropropane	9.26	77	217527	30.10 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	348439	26.20 ug/L	99
31) Tetrahydrofuran	9.58	72	8490	21.50 ug/L	89
32) 1,2-Dichloroethane	10.01	62	135035	29.32 ug/L	95
33) 1,1,1-Trichloroethane	10.13	97	240616	30.09 ug/L	100
34) (TAME) tert-Amyl methyl et	10.85	73	274694	25.62 ug/L	98
36) 1,1-Dichloropropene	10.36	75	219008	24.74 ug/L	99
37) Carbon Tetrachloride	10.60	117	223954	32.27 ug/L	98
38) Benzene	10.65	78	519803	24.61 ug/L	97
39) Dibromomethane	11.38	93	66935	26.85 ug/L	93
40) 1,2-Dichloropropane	11.43	63	120438	23.93 ug/L	94

(#) = qualifier out of range (m) = manual integration

LC 09/18/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:51 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

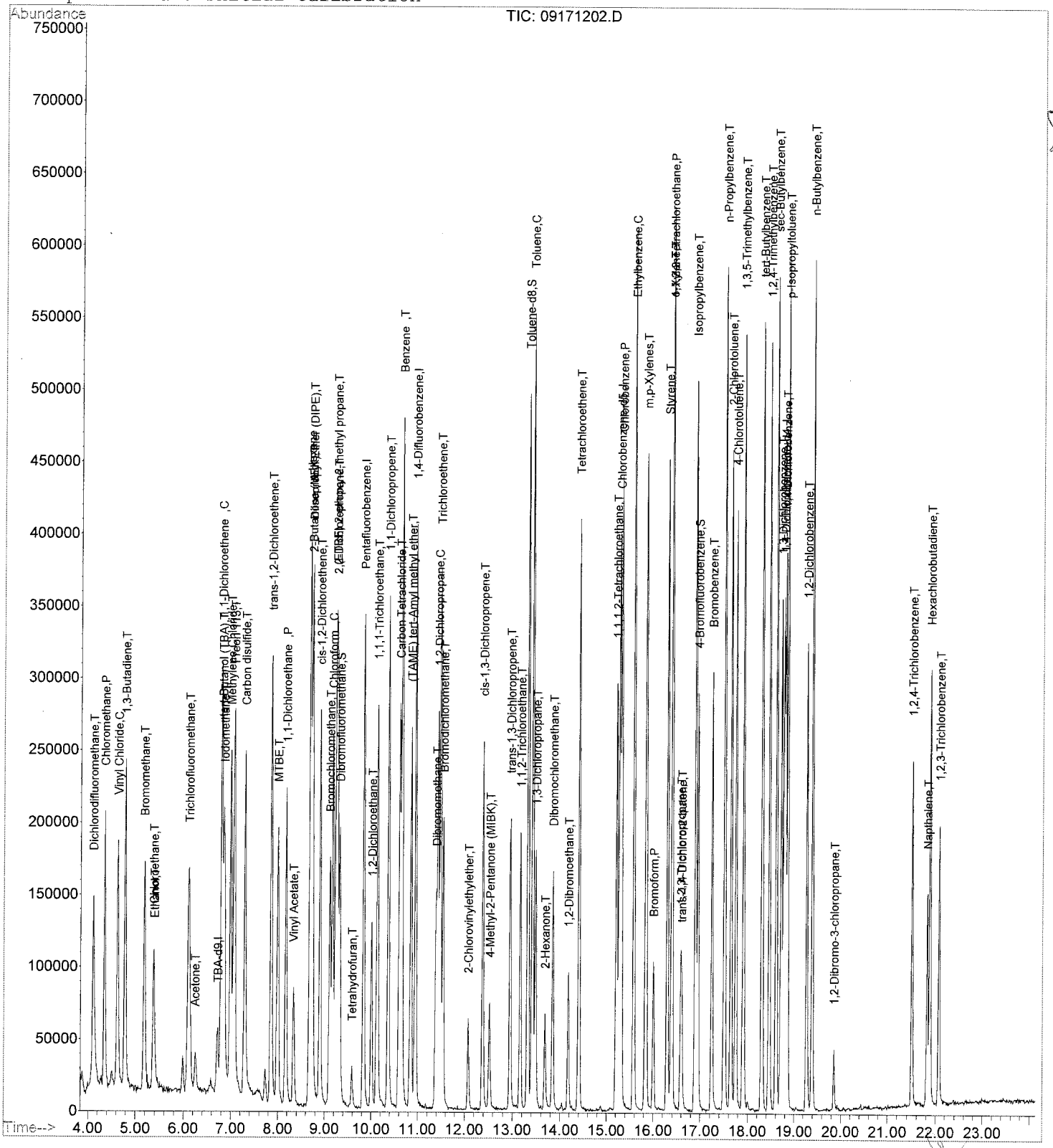
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.47	95	145109	24.51 ug/L	97
42) Bromodichloromethane	11.54	83	169359	29.24 ug/L	95
43) 2-Chlorovinylethylether	12.07	63	32885	17.29 ug/L	97
44) cis-1,3-Dichloropropene	12.38	75	177371	26.27 ug/L	94
45) 4-Methyl-2-Pentanone (MIBK	12.52	43	69438	22.90 ug/L	97
46) trans-1,3-Dichloropropene	12.95	75	138749	27.02 ug/L	93
47) 1,1,2-Trichloroethane	13.17	97	77448	26.45 ug/L	96
49) Toluene	13.41	92	304365	25.34 ug/L	98
51) 1,3-Dichloropropane	13.48	76	136660	25.52 ug/L	95
52) 2-Hexanone	13.68	43	61236	27.36 ug/L	98
53) Dibromochloromethane	13.85	129	109975	28.32 ug/L	98
54) 1,2-Dibromoethane	14.18	107	87125	26.77 ug/L	96
55) Tetrachloroethene	14.40	164	127866	24.07 ug/L	99
56) 1,1,1,2-Tetrachloroethane	15.21	131	113932	26.76 ug/L	97
57) Chlorobenzene	15.31	112	318692	25.74 ug/L	99
58) Ethylbenzene	15.58	91	564254	26.09 ug/L	100
59) m,p-Xylenes	15.83	106	214977	26.05 ug/L	98
60) Styrene	16.28	104	296353	26.82 ug/L	98
61) o-Xylene	16.39	106	193586	25.39 ug/L	99
64) Bromoform	16.00	173	62436	29.44 ug/L	99
65) 1,1,2,2-Tetrachloroethane	16.38	83	87002	26.29 ug/L	96
66) 1,2,3-Trichloropropane	16.58	110	23159	29.04 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.61	53	17224	21.36 ug/L	93
68) Isopropylbenzene	16.88	105	487427	26.49 ug/L	100
69) Bromobenzene	17.24	156	119523	26.66 ug/L	97
70) n-Propylbenzene	17.50	91	619749	26.53 ug/L	99
71) 2-Chlorotoluene	17.63	91	342218	27.10 ug/L	99
72) 4-Chlorotoluene	17.74	91	329486	26.67 ug/L	99
73) 1,3,5-Trimethylbenzene	17.90	105	401593	27.98 ug/L	98
74) tert-Butylbenzene	18.30	119	370945	28.94 ug/L	98
75) 1,2,4-Trimethylbenzene	18.45	105	385936	28.43 ug/L	99
76) sec-Butylbenzene	18.61	105	557114	26.86 ug/L	99
77) 1,3-Dichlorobenzene	18.70	146	209601	25.69 ug/L	97
78) 1,4-Dichlorobenzene	18.80	146	205204	25.65 ug/L	97
79) p-Isopropyltoluene	18.85	119	441065	28.38 ug/L	98
80) 1,2-Dichlorobenzene	19.26	146	171857	25.87 ug/L	97
81) n-Butylbenzene	19.38	91	392497	26.34 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.86	75	10951	33.11 ug/L	95
83) 1,2,4-Trichlorobenzene	21.50	180	102719	28.83 ug/L	95
84) Napthalene	21.82	128	154820	27.17 ug/L	99
85) Hexachlorobutadiene	21.88	225	85199	35.56 ug/L	96
86) 1,2,3-Trichlorobenzene	22.08	180	82016	28.58 ug/L	97

(#) = qualifier out of range (m) = manual integration
09171202.D 081012.M Mon Sep 17 13:51:42 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:51 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

9/18/12

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	160	0.00
2	T	Ethanol	0.108	0.317	-193.5#	497#	0.00
3	T	tert-Butanol (TBA)	1.170	1.096	6.3	146	-0.01
4	I	Pentafluorobenzene	1.000	1.000	0.0	107	-0.01
5	T	Dichlorodifluoromethane	0.917	0.859	6.3	100	0.00
6	P	Chloromethane	0.893	0.856	4.1	104	-0.01
7	C	Vinyl Chloride	0.817	0.891	-9.1	115	0.00
8	T	1,3-Butadiene	0.442	0.485	-9.7	115	0.00
9	T	Bromomethane	0.499	0.539	-8.0	119	-0.01
10	T	Chloroethane	0.405	0.421	-4.0	110	0.00
11	T	Trichlorofluoromethane	0.722	0.882	-22.2	130	-0.01
12	T	Acetone	0.105	0.148	-41.0#	136	-0.01
13	T	Iodomethane	0.844	0.922	-9.2	119	-0.01
14	C	1,1-Dichloroethene	0.503	0.556	-10.5	127	-0.02
15	T	Methylene Chloride	0.448	0.496	-10.7	124	0.00
16	T	Freon 113	0.521	0.612	-17.5	126	-0.01
17	T	Carbon disulfide	1.635	1.686	-3.1	109	0.00
18	T	trans-1,2-Dichloroethene	0.583	0.555	4.8	106	-0.01
19	T	MTBE	0.824	0.862	-4.6	114	-0.01
20	P	1,1-Dichloroethane	0.905	0.904	0.1	109	-0.01
21	T	Vinyl Acetate	0.642	0.556	13.4	94	-0.01
22		n-Hexane	0.143	0.139	2.8	109	-0.01
23	T	2-Butanone (MEK)	0.036	0.042#	-16.7	116	-0.02
24	T	Diisopropyl Ether (DIPE)	1.528	1.410	7.7	103	-0.01
25	T	cis-1,2-Dichloroethene	0.531	0.519	2.3	109	-0.01
26	T	Bromochloromethane	0.211	0.220	-4.3	114	-0.01
27	C	Chloroform	0.792	0.840	-6.1	113	-0.01
28	T	2,2-Dichloropropane	0.599	0.722	-20.5	133	-0.01
29	T	(ETBE) 2-ethoxy-2-methyl pr	1.103	1.156	-4.8	117	-0.01
30	S	Dibromofluoromethane	0.437	0.479	-9.6	119	-0.01
31	T	Tetrahydrofuran	0.033	0.028#	15.2	105	-0.02
32	T	1,2-Dichloroethane	0.382	0.448	-17.3	128	0.00
33	T	1,1,1-Trichloroethane	0.663	0.798	-20.4	126	-0.01
34	T	(TAME) tert-Amyl methyl eth	0.889	0.911	-2.5	114	-0.01
35	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	-0.01
36	T	1,1-Dichloropropene	0.535	0.529	1.1	107	-0.01
37	T	Carbon Tetrachloride	0.419	0.541	-29.1	136	-0.01
38	T	Benzene	1.276	1.256	1.6	105	-0.01
39	T	Dibromomethane	0.151	0.162	-7.3	115	-0.01
40	C	1,2-Dichloropropane	0.304	0.291	4.3	102	-0.01
41	T	Trichloroethene	0.358	0.351	2.0	103	-0.01
42	T	Bromodichloromethane	0.350	0.409	-16.9	120	-0.01
43	T	2-Chlorovinylethylether	0.115	0.079#	31.3#	74	-0.01
44	T	cis-1,3-Dichloropropene	0.408	0.429	-5.1	108	-0.01
45	T	4-Methyl-2-Pentanone (MIBK)	0.183	0.168	8.2	104	-0.01
46	T	trans-1,3-Dichloropropene	0.310	0.335	-8.1	112	0.00
47	T	1,1,2-Trichloroethane	0.177	0.187	-5.6	107	0.00
48	S	Toluene-d8	0.987	0.997	-1.0	106	-0.01

(#) = Out of Range

LC 091812

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171202.D Vial: 2
Acq On : 17 Sep 2012 4:52 am Operator: MNM
Sample : 25 PPB CCV Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Toluene	0.726	0.735	-1.2	108	-0.01
50	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
51	T	1,3-Dichloropropane	0.444	0.453	-2.0	110	-0.01
52	T	2-Hexanone	0.186	0.203	-9.1	115	-0.01
53	T	Dibromochloromethane	0.322	0.365	-13.4	120	-0.01
54	T	1,2-Dibromoethane	0.270	0.289	-7.0	114	0.00
55	T	Tetrachloroethene	0.440	0.424	3.6	102	-0.01
56	T	1,1,1,2-Tetrachloroethane	0.353	0.378	-7.1	111	0.00
57	P	Chlorobenzene	1.026	1.057	-3.0	111	-0.01
58	C	Ethylbenzene	1.793	1.871	-4.4	110	-0.01
59	T	m,p-Xylenes	0.684	0.713	-4.2	110	-0.01
60	T	Styrene	0.916	0.983	-7.3	109	-0.01
61	T	o-Xylene	0.632	0.642	-1.6	109	0.00
62	S	4-Bromofluorobenzene	0.386	0.409	-6.0	117	-0.01
63	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	-0.01
64	P	Bromoform	0.430	0.507	-17.9	119	-0.01
65	P	1,1,2,2-Tetrachloroethane	0.672	0.706	-5.1	108	-0.01
66	T	1,2,3-Trichloropropane	0.162	0.188	-16.0	120	-0.01
67	T	trans-1,4-Dichloro-2-butene	0.150	0.140	6.7	91	0.00
68	T	Isopropylbenzene	3.734	3.956	-5.9	108	-0.01
69	T	Bromobenzene	0.910	0.970	-6.6	106	-0.01
70	T	n-Propylbenzene	4.740	5.030	-6.1	107	0.00
71	T	2-Chlorotoluene	2.563	2.778	-8.4	112	-0.01
72	T	4-Chlorotoluene	2.506	2.674	-6.7	111	-0.01
73	T	1,3,5-Trimethylbenzene	2.912	3.259	-11.9	111	-0.01
74	T	tert-Butylbenzene	2.601	3.011	-15.8	114	0.00
75	T	1,2,4-Trimethylbenzene	2.755	3.132	-13.7	114	-0.01
76	T	sec-Butylbenzene	4.209	4.522	-7.4	105	0.00
77	T	1,3-Dichlorobenzene	1.656	1.701	-2.7	104	-0.01
78	T	1,4-Dichlorobenzene	1.623	1.665	-2.6	105	-0.01
79	T	p-Isopropyltoluene	3.154	3.580	-13.5	110	0.00
80	T	1,2-Dichlorobenzene	1.348	1.395	-3.5	103	-0.01
81	T	n-Butylbenzene	3.024	3.186	-5.4	101	-0.01
82	T	1,2-Dibromo-3-chloropropane	0.063	0.089#	-41.3#	119	0.00
83	T	1,2,4-Trichlorobenzene	0.723	0.834	-15.4	107	-0.01
84	T	Napthalene	1.156	1.257	-8.7	102	0.00
85	T	Hexachlorobutadiene	0.549	0.691	-25.9	119	0.00
86	T	1,2,3-Trichlorobenzene	0.602	0.666	-10.6	106	0.00

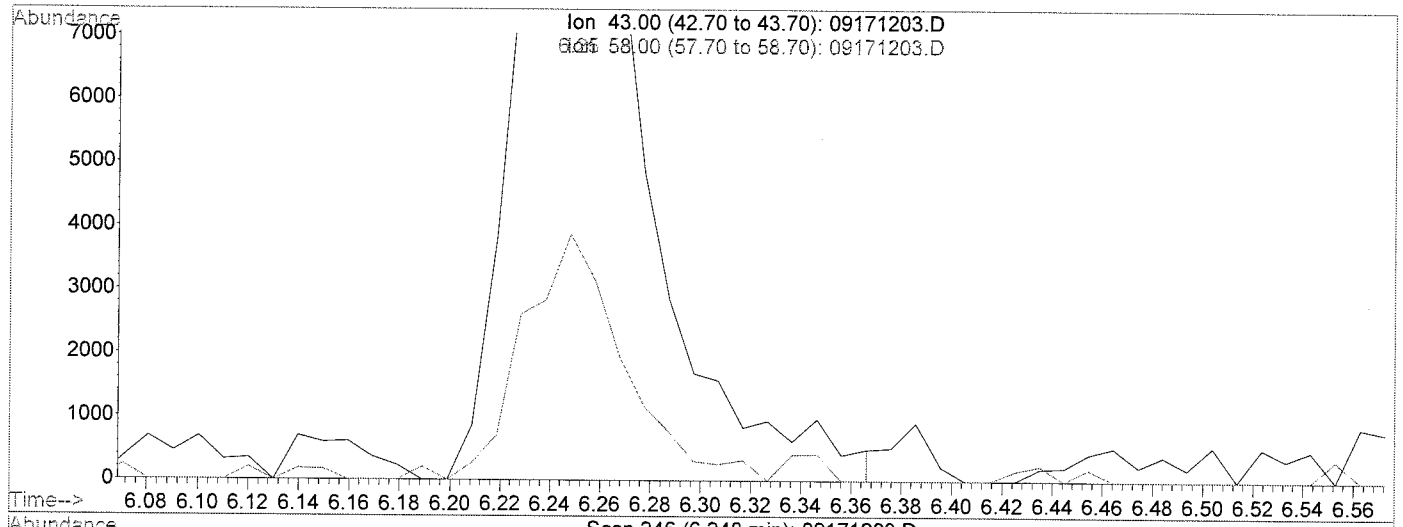
7

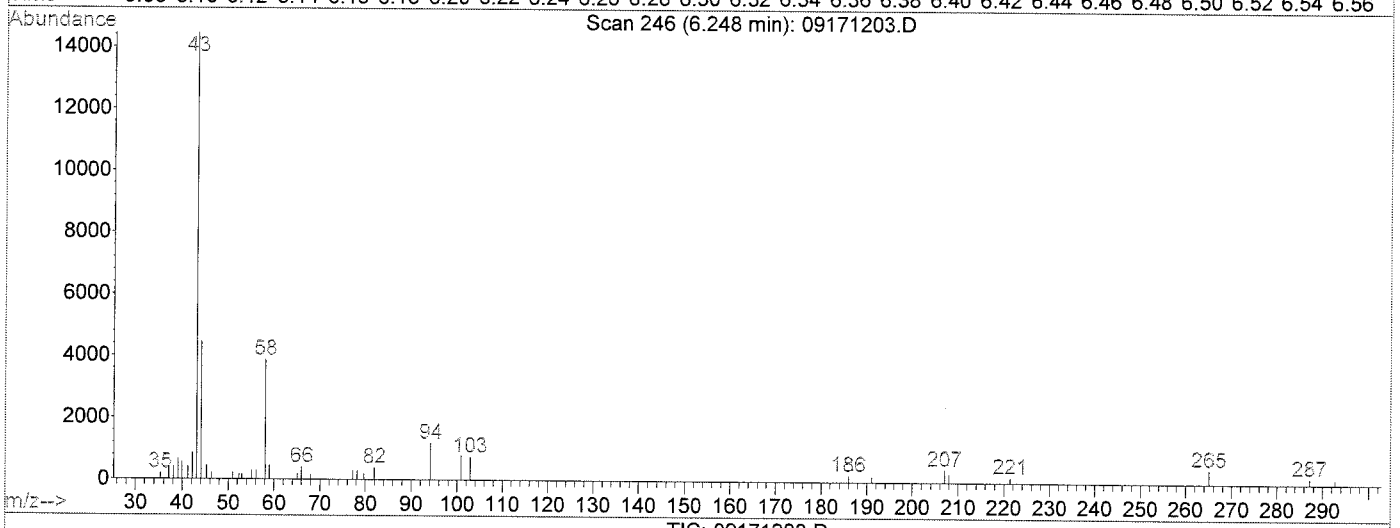
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171203.D Vial: 3
Acq On : 17 Sep 2012 5:25 am Operator: MNM
Sample : 12I0548-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09171203.D

(12) Acetone (T)

6.25min 38.97ug/L

response 45324

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	23.95#
0.00	0.00	0.00
0.00	0.00	0.00

9/18/12

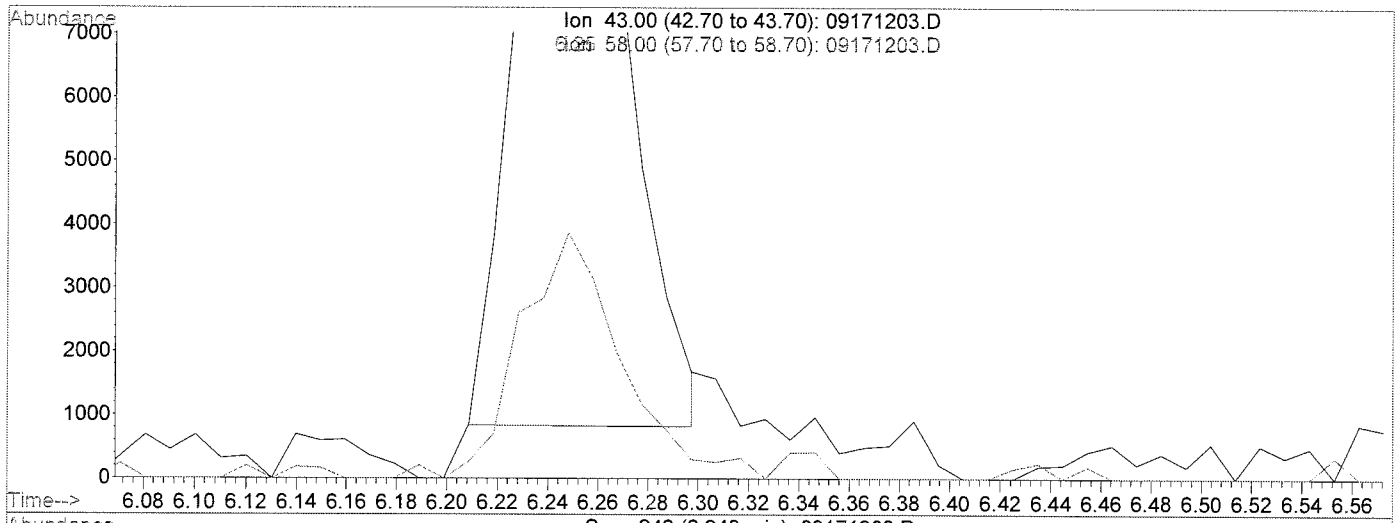
Before-BT
LC 09/18/12

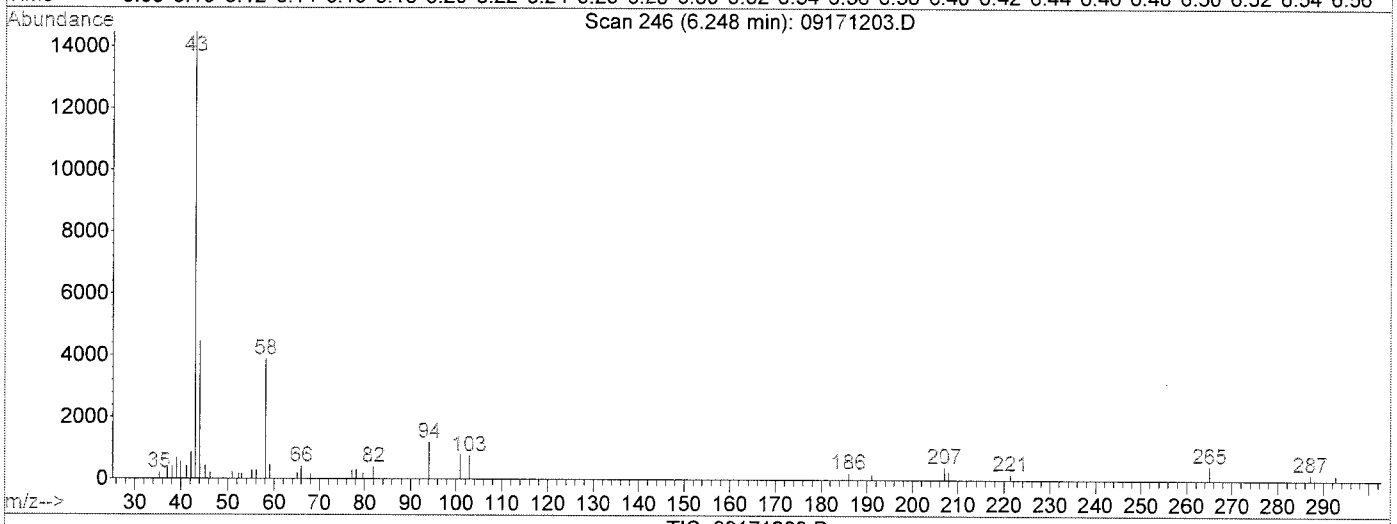
09171203.D 081012.M Mon Sep 17 13:53:21 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171203.D Vial: 3
Acq On : 17 Sep 2012 5:25 am Operator: MNM
Sample : 12I0548-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09171203.D

9/18/12

(12) Acetone (T)

6.25min 31.81ug/L m

response 37004

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	29.33
0.00	0.00	0.00
0.00	0.00	0.00

After 09/18/12

09171203.D 081012.M Mon Sep 17 13:53:32 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171203.D Vial: 3
Acq On : 17 Sep 2012 5:25 am Operator: MNM
Sample : 12I0548-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	63838	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	276303	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	377570	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	283584	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	113112	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	120015	24.84 ug/L	-0.01
Spiked Amount 25.000			Recovery =	99.36%	
48) Toluene-d8	13.32	98	358840	24.07 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.28%	
62) 4-Bromofluorobenzene	16.95	95	112356	25.64 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.56%	
Target Compounds					Qvalue
2) Ethanol	5.54	45	2332	67.76 ug/L	90
3) tert-Butanol (TBA)	6.82	59	50590	135.48 ug/L #	89
5) Dichlorodifluoromethane	4.10	85	305525	30.13 ug/L	100
6) Chloromethane	4.34	50	277716	28.15 ug/L	99
7) Vinyl Chloride	4.62	62	247047	27.36 ug/L	99
8) 1,3-Butadiene	4.78	54	205833	42.15 ug/L	98
9) Bromomethane	5.19	94	161038	29.20 ug/L	98
10) Chloroethane	5.37	64	118272	26.41 ug/L	98
11) Trichlorofluoromethane	6.11	101	279544	35.02 ug/L	97
12) Acetone	6.25	43	37004m	31.81 ug/L	
13) Iodomethane	6.85	142	285072	30.56 ug/L	91
14) 1,1-Dichloroethene	6.80	96	155502	27.99 ug/L	96
15) Methylene Chloride	6.99	84	120302	24.32 ug/L	99
16) Freon 113	7.06	101	172040	29.90 ug/L	97
17) Carbon disulfide	7.29	76	503731	27.88 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	149611	23.22 ug/L	99
19) MTBE	7.99	73	219710	24.12 ug/L	98
20) 1,1-Dichloroethane	8.17	63	232574	23.25 ug/L	98
21) Vinyl Acetate	8.33	43	174720	24.64 ug/L	100
22) n-Hexane	8.68	86	32225	20.38 ug/L	99
23) 2-Butanone (MEK)	8.71	72	9541	23.97 ug/L #	55
24) Diisopropyl Ether (DIPE)	8.73	45	370677	21.95 ug/L	93
25) cis-1,2-Dichloroethene	8.89	96	143207	24.42 ug/L	99
26) Bromochloromethane	9.11	128	53652	23.05 ug/L	96
27) Chloroform	9.17	83	209821	23.98 ug/L	97
28) 2,2-Dichloropropane	9.27	77	183001	27.62 ug/L	98
29) (ETBE) 2-ethoxy-2-methyl p	9.24	59	283292	23.23 ug/L	98
31) Tetrahydrofuran	9.59	72	5274	14.57 ug/L #	77
32) 1,2-Dichloroethane	10.01	62	115419	27.34 ug/L	97
33) 1,1,1-Trichloroethane	10.13	97	208859	28.50 ug/L	97
34) (TAME) tert-Amyl methyl et	10.84	73	230425	23.45 ug/L	99
36) 1,1-Dichloropropene	10.37	75	172782	21.40 ug/L	99
37) Carbon Tetrachloride	10.60	117	197458	31.19 ug/L	99
38) Benzene	10.65	78	457070	23.72 ug/L	99
39) Dibromomethane	11.38	93	54584	24.00 ug/L	98
40) 1,2-Dichloropropane	11.42	63	97239	21.18 ug/L	91

(#) = qualifier out of range (m) = manual integration
09171203.D 081012.M Mon Sep 17 13:53:41 2012

LC 09/18/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171203.D Vial: 3
Acq On : 17 Sep 2012 5:25 am Operator: MNM
Sample : 12I0548-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

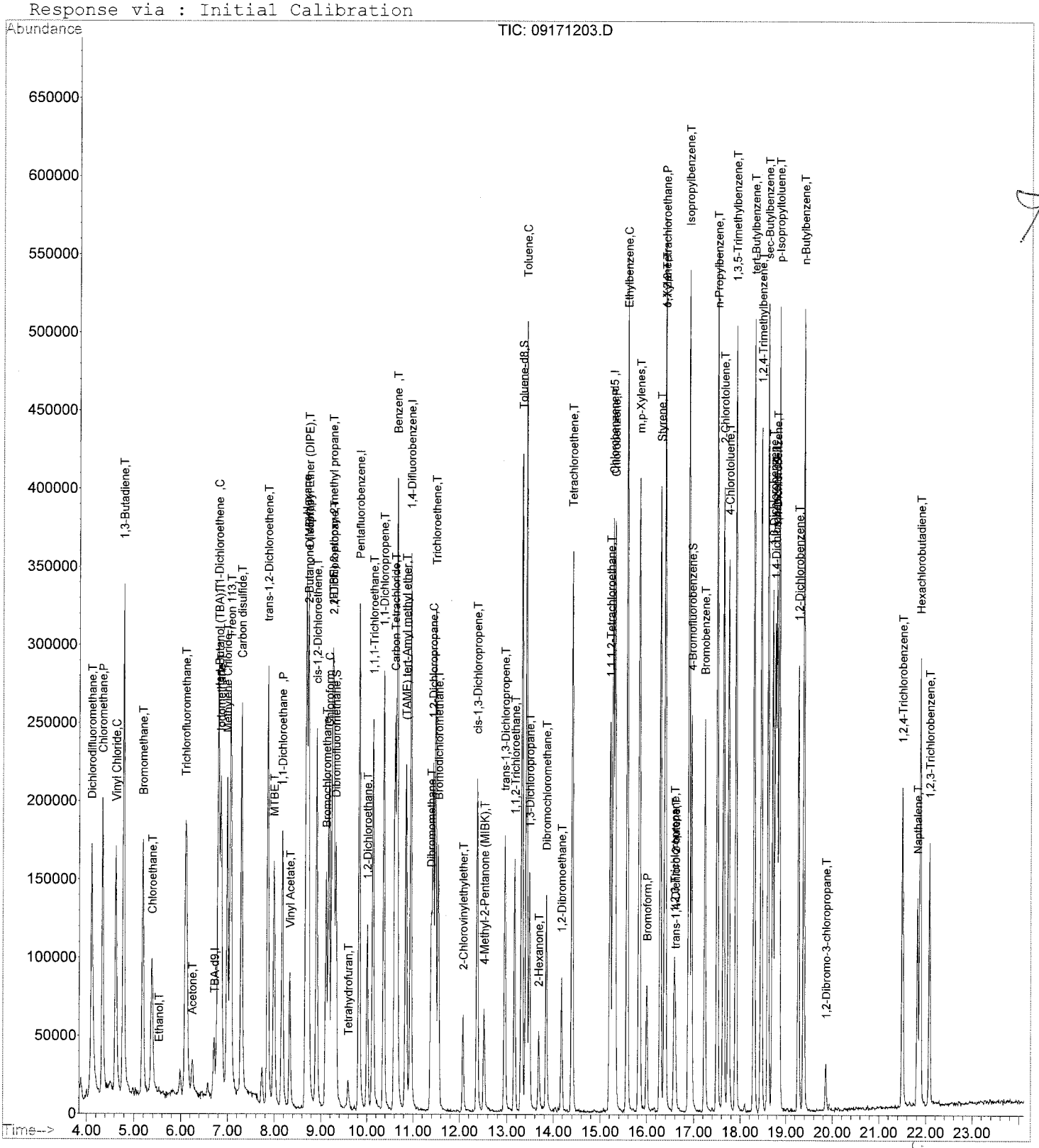
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	135709	25.13 ug/L		96
42)	Bromodichloromethane	11.54	83	135303	25.61 ug/L		99
43)	2-Chlorovinylethylether	12.07	63	31232	18.00 ug/L	#	93
44)	cis-1,3-Dichloropropene	12.38	75	151117	24.53 ug/L		96
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	57612	20.83 ug/L		97
46)	trans-1,3-Dichloropropene	12.95	75	120996	25.83 ug/L		98
47)	1,1,2-Trichloroethane	13.16	97	67186	25.15 ug/L		97
49)	Toluene	13.41	92	276440	25.23 ug/L		97
51)	1,3-Dichloropropane	13.48	76	108015	21.45 ug/L		98
52)	2-Hexanone	13.68	43	46575	22.13 ug/L	#	92
53)	Dibromochloromethane	13.84	129	95404	26.13 ug/L		98
54)	1,2-Dibromoethane	14.18	107	71260	23.29 ug/L		97
55)	Tetrachloroethene	14.40	164	115068	23.03 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	97217	24.29 ug/L		94
57)	Chlorobenzene	15.32	112	283759	24.37 ug/L		98
58)	Ethylbenzene	15.57	91	494312	24.31 ug/L		99
59)	m,p-Xylenes	15.84	106	186902	24.09 ug/L		99
60)	Styrene	16.29	104	256290	24.67 ug/L		98
61)	o-Xylene	16.39	106	172772	24.10 ug/L		96
64)	Bromoform	16.01	173	50967	26.18 ug/L		97
65)	1,1,2,2-Tetrachloroethane	16.38	83	71276	23.46 ug/L		95
66)	1,2,3-Trichloropropane	16.59	110	20258	27.67 ug/L		100
67)	trans-1,4-Dichloro-2-buten	16.62	53	14177	19.26 ug/L		98
68)	Isopropylbenzene	16.89	105	474873	28.11 ug/L		97
69)	Bromobenzene	17.24	156	101230	24.59 ug/L		97
70)	n-Propylbenzene	17.50	91	559256	26.08 ug/L		97
71)	2-Chlorotoluene	17.64	91	308876	26.64 ug/L		98
72)	4-Chlorotoluene	17.75	91	291177	25.68 ug/L		96
73)	1,3,5-Trimethylbenzene	17.90	105	361060	27.40 ug/L		99
74)	tert-Butylbenzene	18.30	119	324065	27.54 ug/L		98
75)	1,2,4-Trimethylbenzene	18.45	105	339458	27.24 ug/L		98
76)	sec-Butylbenzene	18.60	105	495107	26.00 ug/L		98
77)	1,3-Dichlorobenzene	18.71	146	180623	24.11 ug/L		94
78)	1,4-Dichlorobenzene	18.80	146	180434	24.57 ug/L		99
79)	p-Isopropyltoluene	18.85	119	383464	26.88 ug/L		98
80)	1,2-Dichlorobenzene	19.27	146	152763	25.04 ug/L		97
81)	n-Butylbenzene	19.38	91	353054	25.80 ug/L		99
82)	1,2-Dibromo-3-chloropropan	19.85	75	8758	28.67 ug/L		96
83)	1,2,4-Trichlorobenzene	21.49	180	88490	27.06 ug/L		96
84)	Napthalene	21.82	128	130742	24.99 ug/L		97
85)	Hexachlorobutadiene	21.88	225	77097	35.01 ug/L		99
86)	1,2,3-Trichlorobenzene	22.07	180	68900	26.03 ug/L		99

(#) = qualifier out of range (m) = manual integration
09171203.D 081012.M Mon Sep 17 13:53:41 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171203.D Vial: 3
Acq On : 17 Sep 2012 5:25 am Operator: MNM
Sample : 12I0548-BS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: 081012.RES

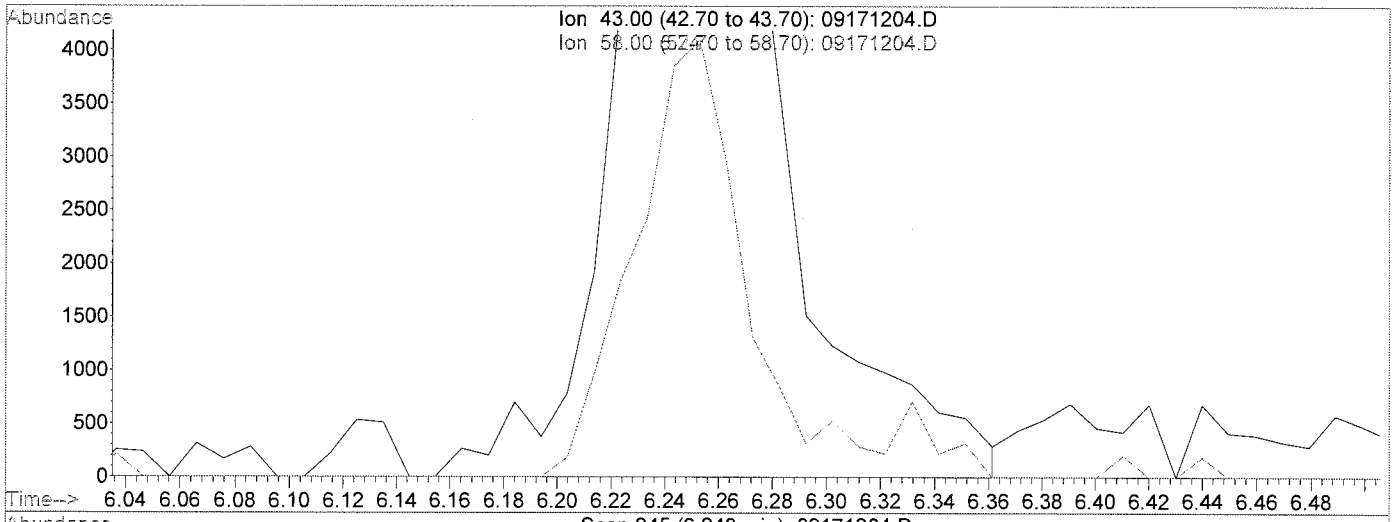
Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

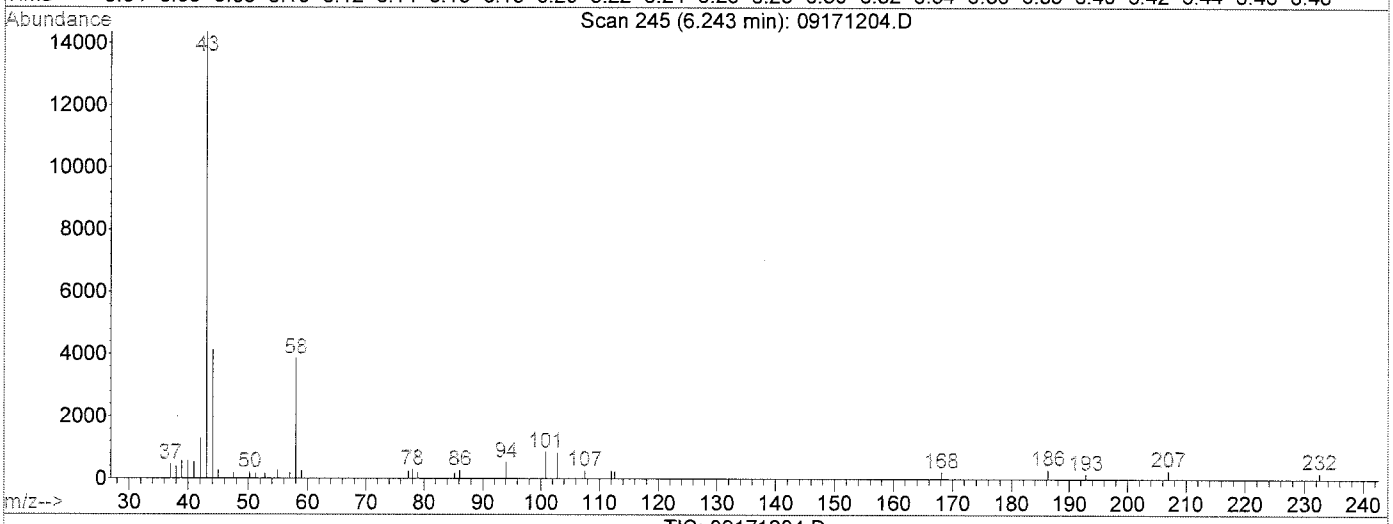


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171204.D Vial: 4
Acq On : 17 Sep 2012 5:58 am Operator: MNM
Sample : 12I0548-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:53 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09171204.D

(12) Acetone (T)

6.24min 39.35ug/L

response 43463

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	26.86
0.00	0.00	0.00
0.00	0.00	0.00

9/18/12 T

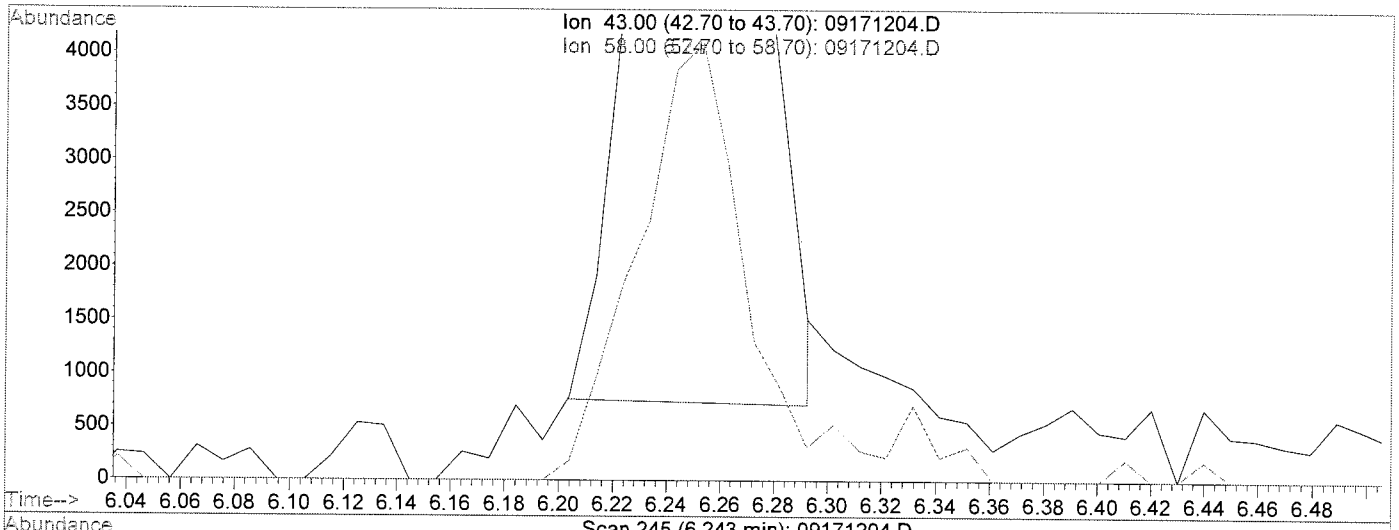
Before-B,T
LC 09/18/R

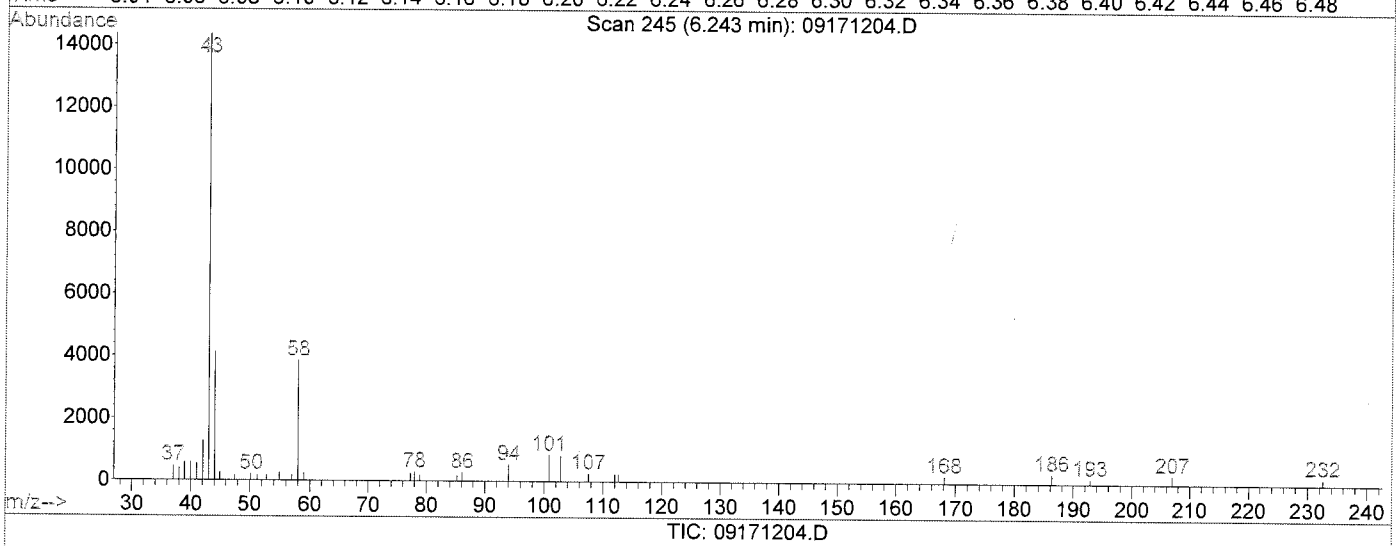
09171204.D 081012.M Mon Sep 17 13:53:57 2012

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171204.D Vial: 4
Acq On : 17 Sep 2012 5:58 am Operator: MNM
Sample : 12I0548-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Multiple Level Calibration





TIC: 09171204.D

✓ 9/18/12

(12) Acetone (T)

6.24min 31.59ug/L m

response 34895

Ion	Exp%	Act%
43.00	100	100
58.00	32.40	33.46
0.00	0.00	0.00
0.00	0.00	0.00

AC for LC 09/18/12

09171204.D 081012.M Mon Sep 17 13:54:13 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171204.D Vial: 4
Acq On : 17 Sep 2012 5:58 am Operator: MNM
Sample : 12I0548-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	71556	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	262388	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.94	114	367173	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.26	117	268498	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	109916	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	120733	26.31 ug/L	0.00
Spiked Amount 25.000			Recovery =	105.24%	
48) Toluene-d8	13.32	98	346431	23.89 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.56%	
62) 4-Bromofluorobenzene	16.95	95	107995	26.03 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.12%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	34774	901.39 ug/L #	68
3) tert-Butanol (TBA)	6.82	59	58650	140.12 ug/L	98
5) Dichlorodifluoromethane	4.11	85	283986	29.50 ug/L	99
6) Chloromethane	4.34	50	268636	28.67 ug/L	99
7) Vinyl Chloride	4.62	62	237778	27.73 ug/L	99
8) 1,3-Butadiene	4.78	54	189259	40.81 ug/L	99
9) Bromomethane	5.18	94	149958	28.64 ug/L	98
10) Chloroethane	5.38	64	111987	26.33 ug/L	100
11) Trichlorofluoromethane	6.11	101	266574	35.17 ug/L	98
12) Acetone	6.24	43	34895m	31.59 ug/L	
13) Iodomethane	6.85	142	269157	30.38 ug/L #	88
14) 1,1-Dichloroethene	6.79	96	148475	28.15 ug/L	99
15) Methylene Chloride	6.98	84	119297	25.40 ug/L	96
16) Freon 113	7.06	101	168220	30.79 ug/L	98
17) Carbon disulfide	7.29	76	477746	27.85 ug/L	99
18) trans-1,2-Dichloroethene	7.85	96	139352	22.78 ug/L	94
19) MTBE	7.98	73	221417	25.60 ug/L	99
20) 1,1-Dichloroethane	8.17	63	220561	23.22 ug/L	99
21) Vinyl Acetate	8.33	43	165584	24.59 ug/L	100
22) n-Hexane	8.68	86	34130	22.73 ug/L	89
23) 2-Butanone (MEK)	8.71	72	11286	29.86 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.72	45	362585	22.61 ug/L #	58
25) cis-1,2-Dichloroethene	8.90	96	138502	24.87 ug/L	98
26) Bromochloromethane	9.11	128	56405	25.52 ug/L	86
27) Chloroform	9.16	83	196903	23.69 ug/L	99
28) 2,2-Dichloropropane	9.26	77	177272	28.18 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	273212	23.60 ug/L	98
31) Tetrahydrofuran	9.59	72	6876	20.00 ug/L	79
32) 1,2-Dichloroethane	10.00	62	113519	28.32 ug/L	95
33) 1,1,1-Trichloroethane	10.13	97	204179	29.34 ug/L	97
34) (TAME) tert-Amyl methyl et	10.85	73	226621	24.28 ug/L	98
36) 1,1-Dichloropropene	10.36	75	165097	21.03 ug/L	97
37) Carbon Tetrachloride	10.60	117	193985	31.51 ug/L	97
38) Benzene	10.65	78	433062	23.11 ug/L	99
39) Dibromomethane	11.38	93	55344	25.02 ug/L	98
40) 1,2-Dichloropropane	11.43	63	96639	21.65 ug/L #	92

(#) = qualifier out of range (m) = manual integration
09171204.D 081012.M Mon Sep 17 13:54:21 2012

LC 09/18/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171204.D Vial: 4
Acq On : 17 Sep 2012 5:58 am Operator: MNM
Sample : 12I0548-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

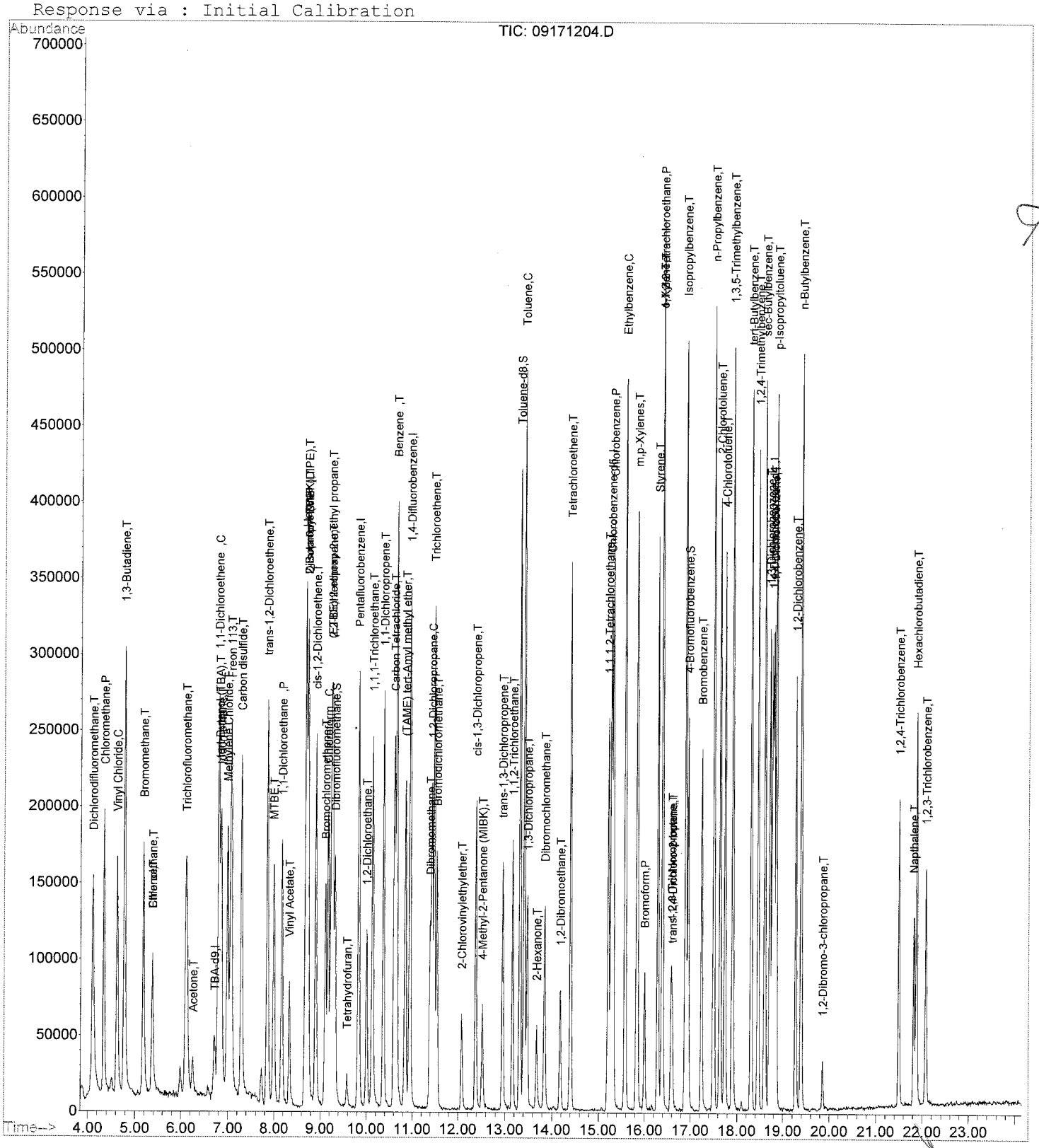
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) Trichloroethene	11.48	95	132583	25.24 ug/L	95
42) Bromodichloromethane	11.54	83	131913	25.67 ug/L	98
43) 2-Chlorovinylethylether	12.08	63	34858	20.66 ug/L	97
44) cis-1,3-Dichloropropene	12.38	75	150603	25.14 ug/L	96
45) 4-Methyl-2-Pentanone (MIBK	12.52	43	61450	22.85 ug/L	92
46) trans-1,3-Dichloropropene	12.95	75	121318	26.63 ug/L	99
47) 1,1,2-Trichloroethane	13.16	97	67916	26.15 ug/L	95
49) Toluene	13.41	92	264624	24.83 ug/L	100
51) 1,3-Dichloropropane	13.48	76	105215	22.07 ug/L	100
52) 2-Hexanone	13.68	43	46627	23.40 ug/L #	95
53) Dibromochloromethane	13.84	129	94029	27.20 ug/L	98
54) 1,2-Dibromoethane	14.18	107	74220	25.62 ug/L	99
55) Tetrachloroethene	14.40	164	105623	22.33 ug/L	95
56) 1,1,1,2-Tetrachloroethane	15.20	131	97067	25.61 ug/L	96
57) Chlorobenzene	15.31	112	271132	24.60 ug/L	99
58) Ethylbenzene	15.58	91	467799	24.30 ug/L	99
59) m,p-Xylenes	15.83	106	186703	25.42 ug/L	99
60) Styrene	16.29	104	240334	24.43 ug/L	98
61) o-Xylene	16.38	106	171621	25.28 ug/L	99
64) Bromoform	16.00	173	55115	29.13 ug/L	97
65) 1,1,2,2-Tetrachloroethane	16.38	83	73698	24.96 ug/L	99
66) 1,2,3-Trichloropropane	16.58	110	19430	27.31 ug/L	95
67) trans-1,4-Dichloro-2-buten	16.61	53	14289	19.94 ug/L	91
68) Isopropylbenzene	16.89	105	458992	27.96 ug/L	99
69) Bromobenzene	17.24	156	100466	25.12 ug/L	98
70) n-Propylbenzene	17.50	91	548973	26.34 ug/L	99
71) 2-Chlorotoluene	17.63	91	300790	26.70 ug/L	99
72) 4-Chlorotoluene	17.74	91	286244	25.98 ug/L	99
73) 1,3,5-Trimethylbenzene	17.90	105	347337	27.13 ug/L	100
74) tert-Butylbenzene	18.29	119	315721	27.61 ug/L	97
75) 1,2,4-Trimethylbenzene	18.45	105	315884	26.08 ug/L	99
76) sec-Butylbenzene	18.60	105	483128	26.11 ug/L	99
77) 1,3-Dichlorobenzene	18.72	146	180856	24.84 ug/L	97
78) 1,4-Dichlorobenzene	18.80	146	172335	24.15 ug/L	97
79) p-Isopropyltoluene	18.85	119	362589	26.15 ug/L	98
80) 1,2-Dichlorobenzene	19.27	146	148700	25.09 ug/L	97
81) n-Butylbenzene	19.38	91	328508	24.71 ug/L	99
82) 1,2-Dibromo-3-chloropropan	19.85	75	9325	31.54 ug/L	93
83) 1,2,4-Trichlorobenzene	21.50	180	86839	27.32 ug/L	97
84) Napthalene	21.82	128	136786	26.90 ug/L	99
85) Hexachlorobutadiene	21.88	225	72205	33.63 ug/L	97
86) 1,2,3-Trichlorobenzene	22.08	180	67895	26.41 ug/L	99

(#) = qualifier out of range (m) = manual integration
09171204.D 081012.M Mon Sep 17 13:54:21 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171204.D Vial: 4
Acq On : 17 Sep 2012 5:58 am Operator: MNM
Sample : 12I0548-BSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D Vial: 5
Acq On : 17 Sep 2012 6:31 am Operator: MNM
Sample : 12I0548-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

✓ 9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	65866	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	262169	25.00 ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	362760	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.26	117	264326	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	97782	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	119958	26.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 104.64%	
48) Toluene-d8	13.32	98	348413	24.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.28%	
62) 4-Bromofluorobenzene	16.95	95	100471	24.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.40%	

Target Compounds					Qvalue
2) Ethanol	5.41	45	18079	509.12 ug/L # NT	61
3) tert-Butanol (TBA)	6.81	59	159	0.41 ug/L #inc/NT	1
5) Dichlorodifluoromethane	4.09	85	983	0.10 ug/L	81
6) Chloromethane	4.34	50	998	0.11 ug/L	83
9) Bromomethane	5.29	94	1061	0.20 ug/L #	21
12) Acetone	6.27	43	2282	2.07 ug/L #	55
15) Methylene Chloride	6.98	84	472	0.10 ug/L #	73
31) Tetrahydrofuran	9.59	72	254	0.74 ug/L #	1
66) 1,2,3-Trichloropropane	16.52	110	259	0.41 ug/L #	22
82) 1,2-Dibromo-3-chloropropan	19.87	75	97	0.54 ug/L #	82
83) 1,2,4-Trichlorobenzene	21.50	180	377	0.13 ug/L #	9
84) Napthalene	21.81	128	1553	0.34 ug/L #	87
85) Hexachlorobutadiene	21.88	225	202	Below Cal #	56
86) 1,2,3-Trichlorobenzene	22.09	180	925	0.25 ug/L #	66

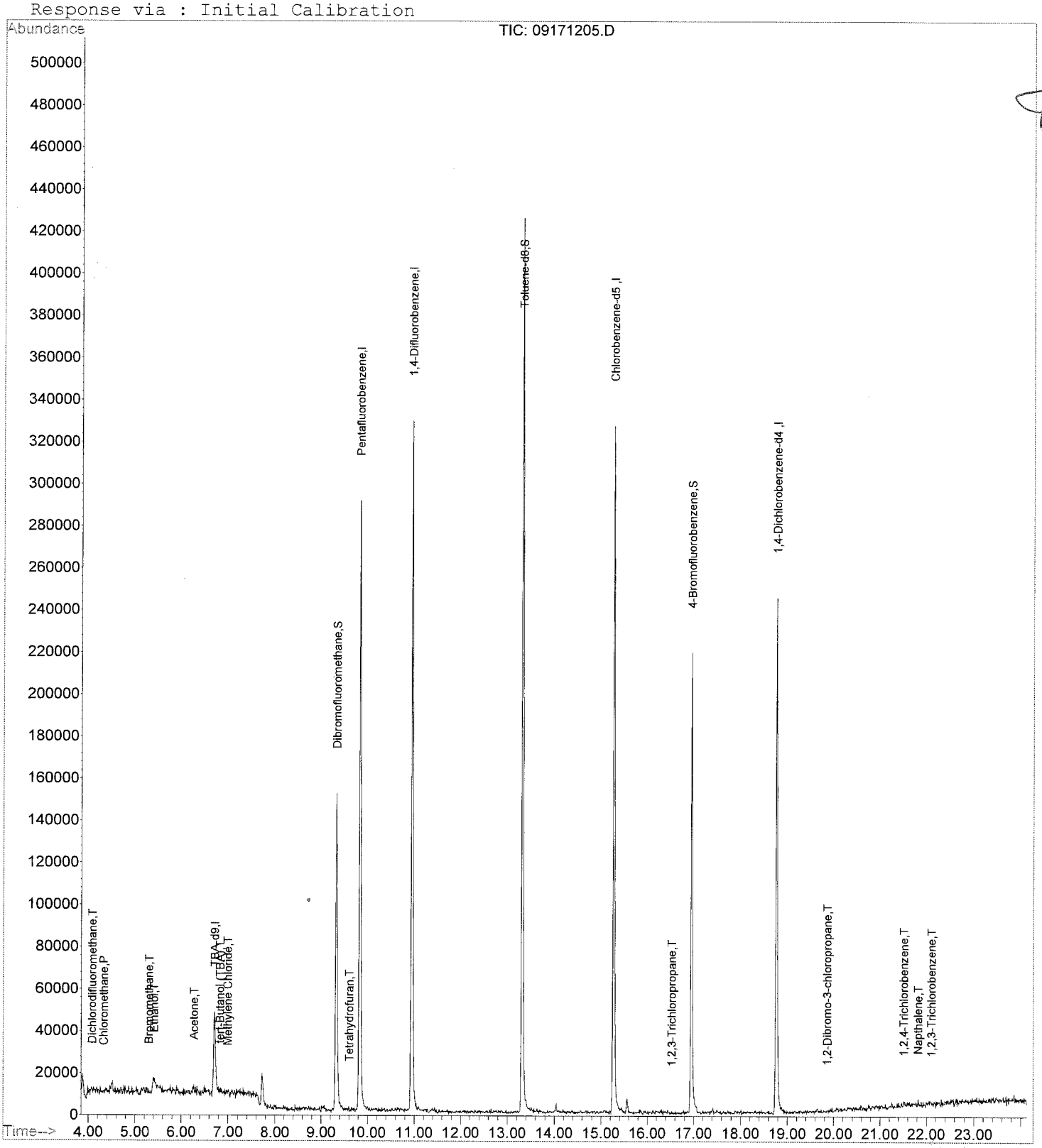
LL 09/18/12

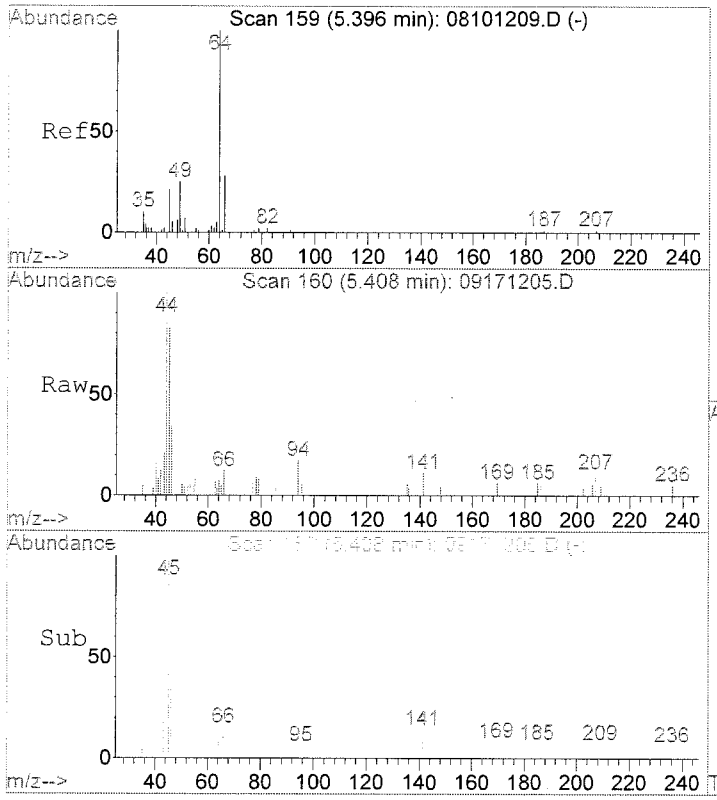
(#) = qualifier out of range (m) = manual integration
09171205.D 081012.M Mon Sep 17 13:54:43 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D Vial: 5
Acq On : 17 Sep 2012 6:31 am Operator: MNM
Sample : 12I0548-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:54 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

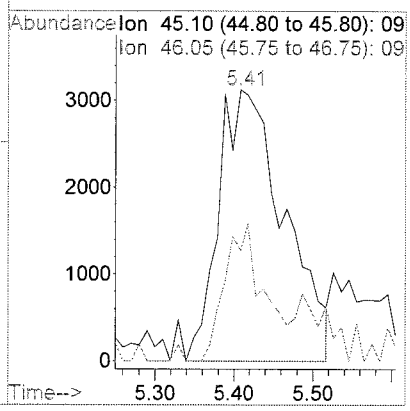


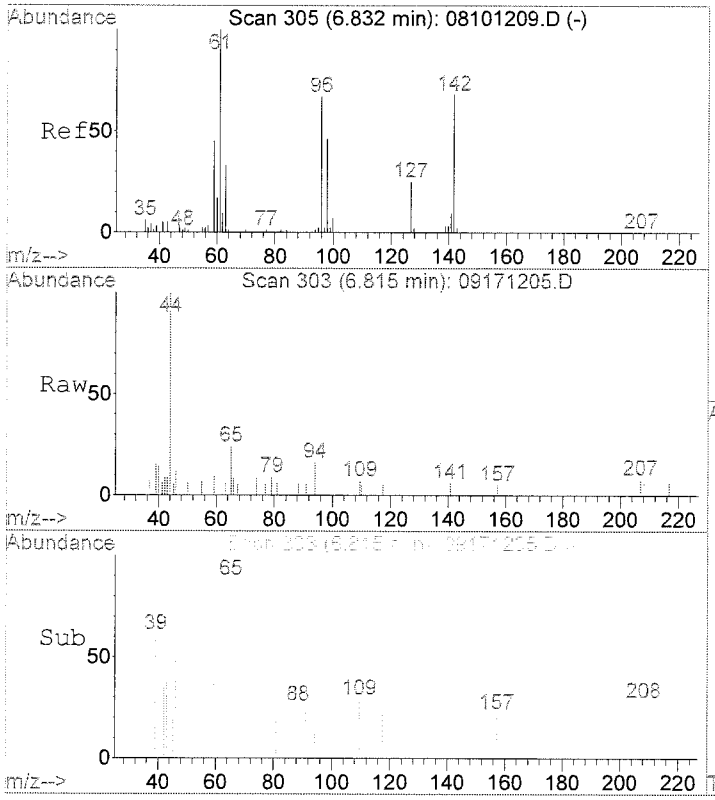


#2
Ethanol
Concen: 509.12 ug/L
RT: 5.41 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 45 Resp: 18079

Ion	Ratio	Lower	Upper
45	100		
46	30.1	39.9	79.9#

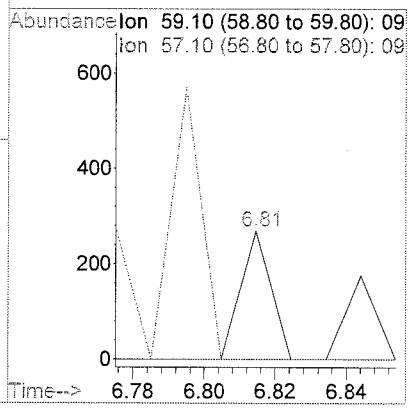


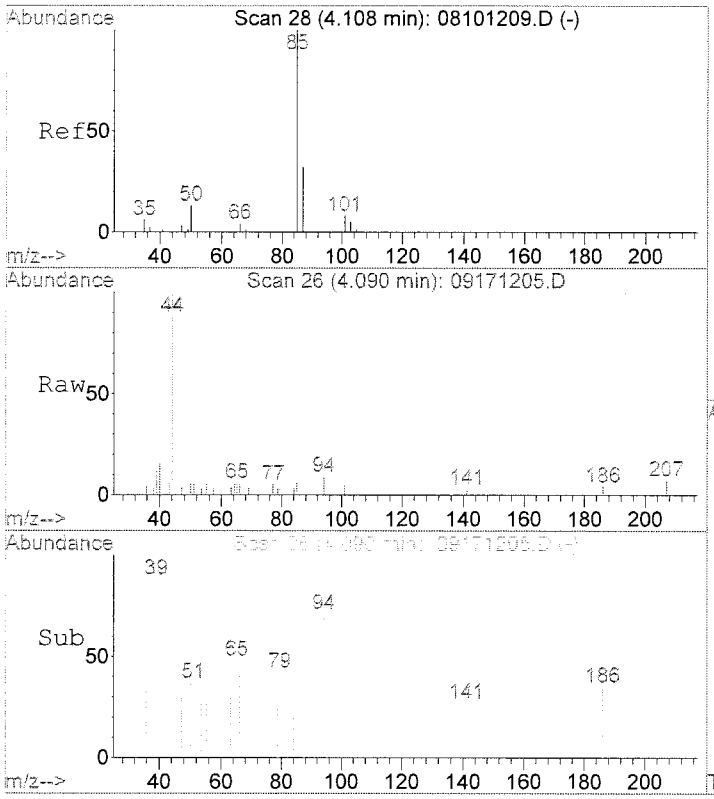


#3
tert-Butanol (TBA)
Concen: 0.41 ug/L
RT: 6.81 min Scan# 303
Delta R.T. -0.02 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 59 Resp: 159

Ion	Ratio	Lower	Upper
59	100		
57	211.3	6.4	9.6#

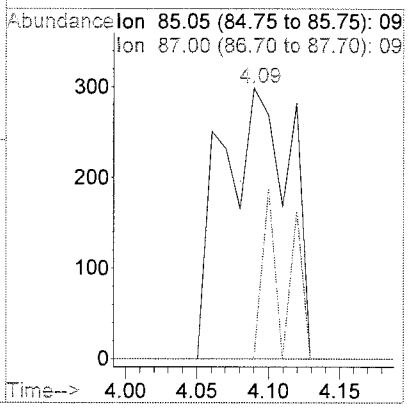


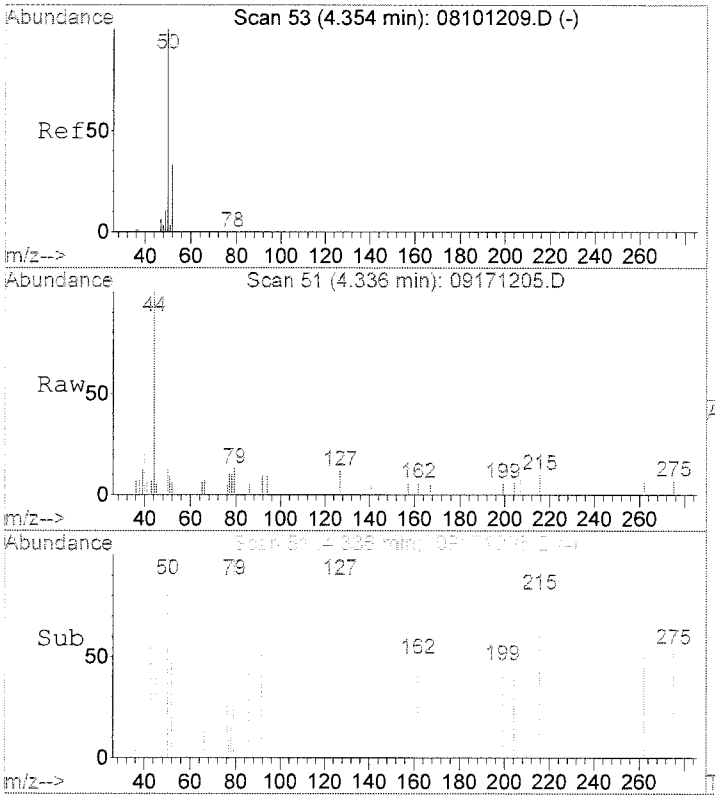


#5
Dichlorodifluoromethane
Concen: 0.10 ug/L
RT: 4.09 min Scan# 26
Delta R.T. -0.02 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 85 Resp: 983

Ion	Ratio	Lower	Upper
85	100		
87	21.1	11.9	51.9

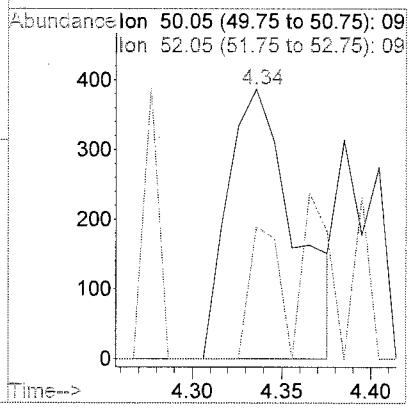


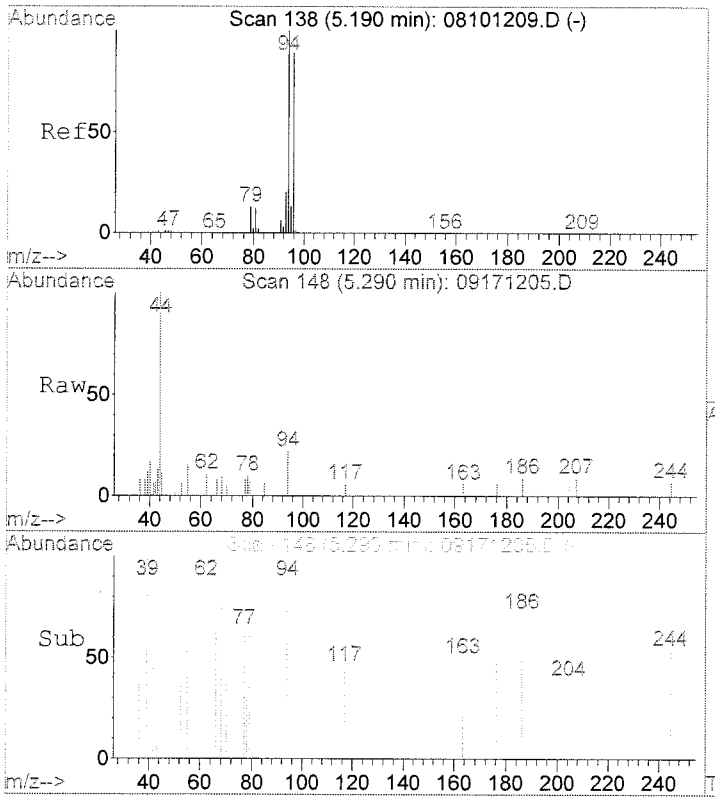


#6
Chloromethane
Concen: 0.11 ug/L
RT: 4.34 min Scan# 51
Delta R.T. -0.02 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 50 Resp: 998

Ion	Ratio	Lower	Upper
50	100		
52	23.0	12.3	52.3

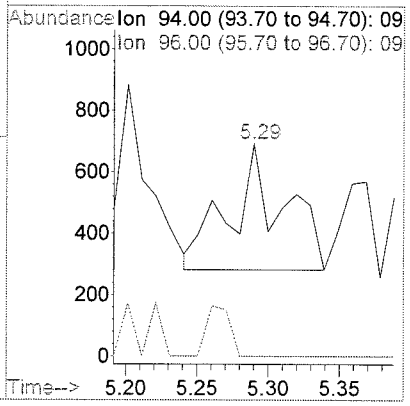


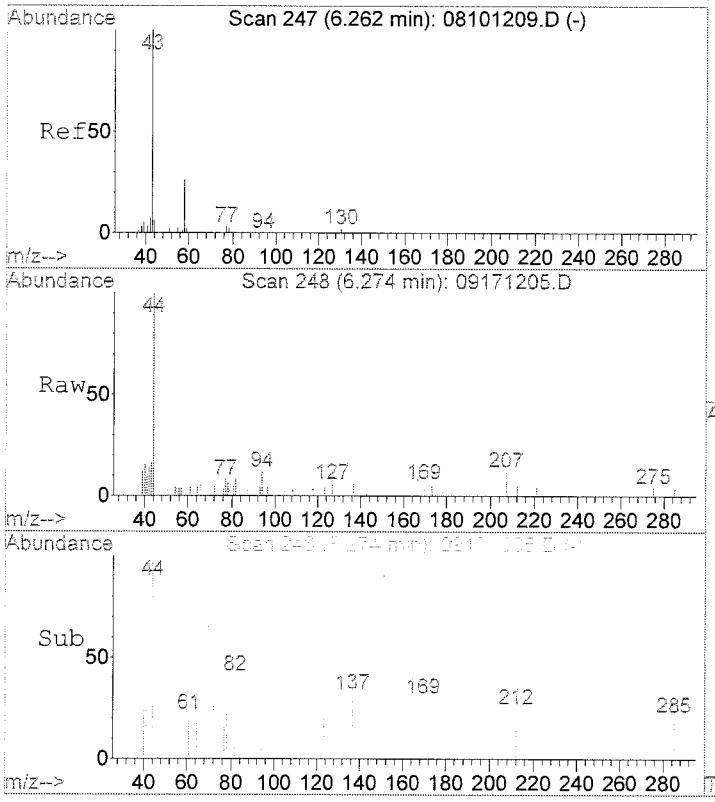


#9
Bromomethane
Concen: 0.20 ug/L
RT: 5.29 min Scan# 148
Delta R.T. 0.10 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 94 Resp: 1061

Ion	Ratio	Lower	Upper
94	100		
96	17.6	75.8	113.6#

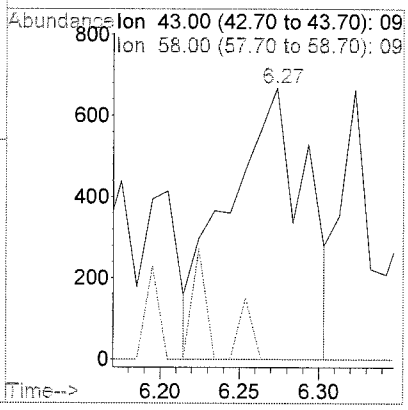


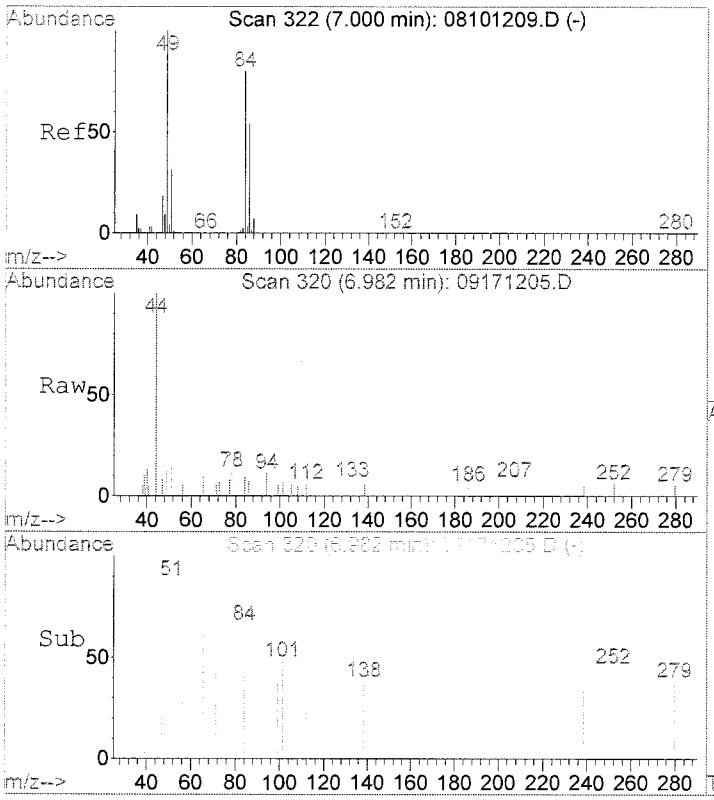


#12
Acetone
Concen: 2.07 ug/L
RT: 6.27 min Scan# 248
Delta R.T. 0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 43 Resp: 2282

Ion	Ratio	Lower	Upper
43	100		
58	7.1	25.9	38.9#

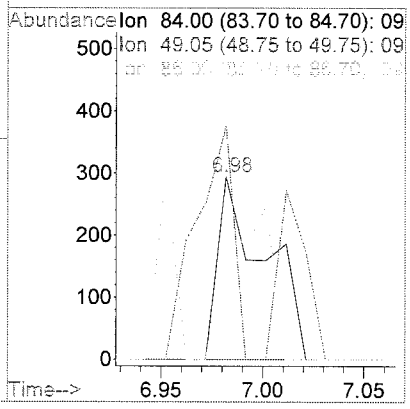


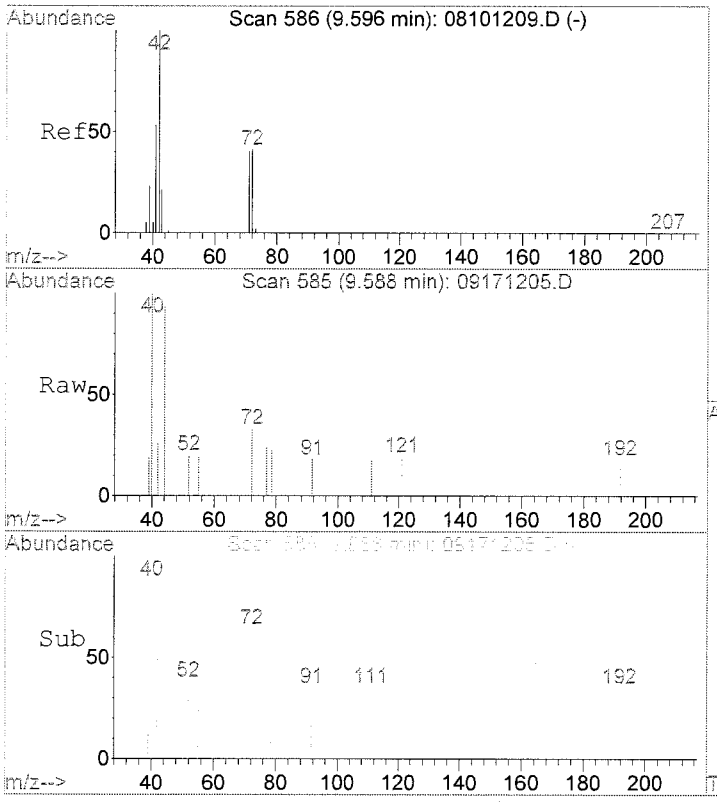


#15
Methylene Chloride
Concen: 0.10 ug/L
RT: 6.98 min Scan# 320
Delta R.T. -0.02 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 84 Resp: 472

Ion	Ratio	Lower	Upper
84	100		
49	102.5	103.4	155.0#
86	36.9	52.0	78.0#

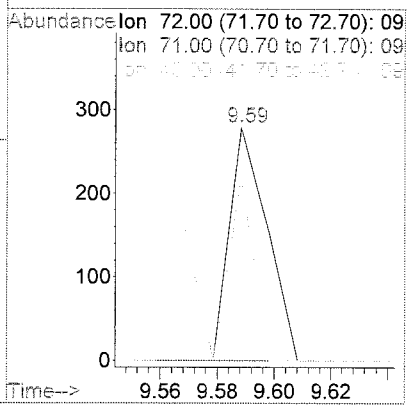


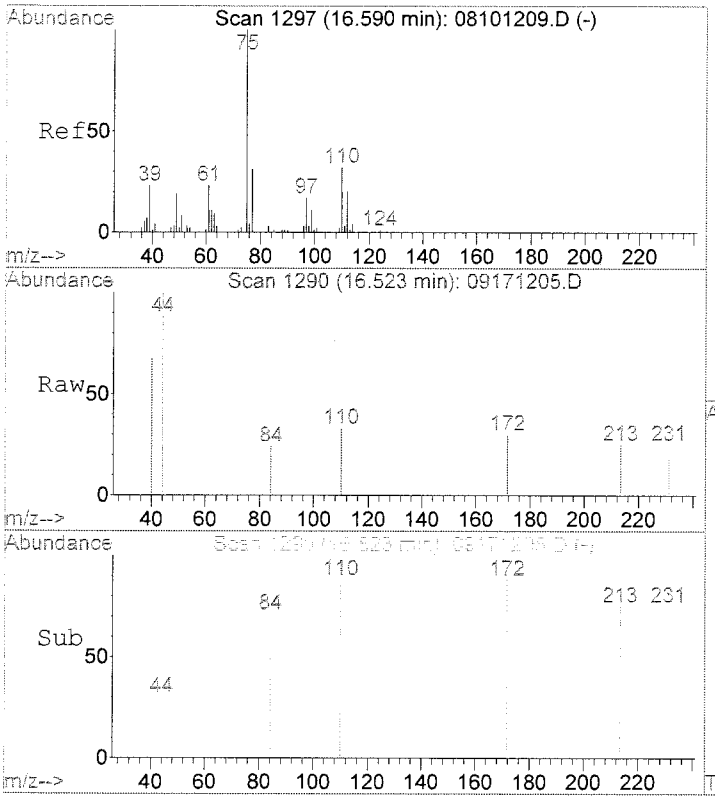


#31
Tetrahydrofuran
Concen: 0.74 ug/L
RT: 9.59 min Scan# 585
Delta R.T. -0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 72 Resp: 254

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	50.8	217.1	325.7#

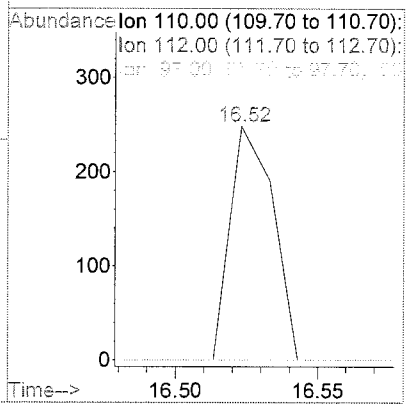


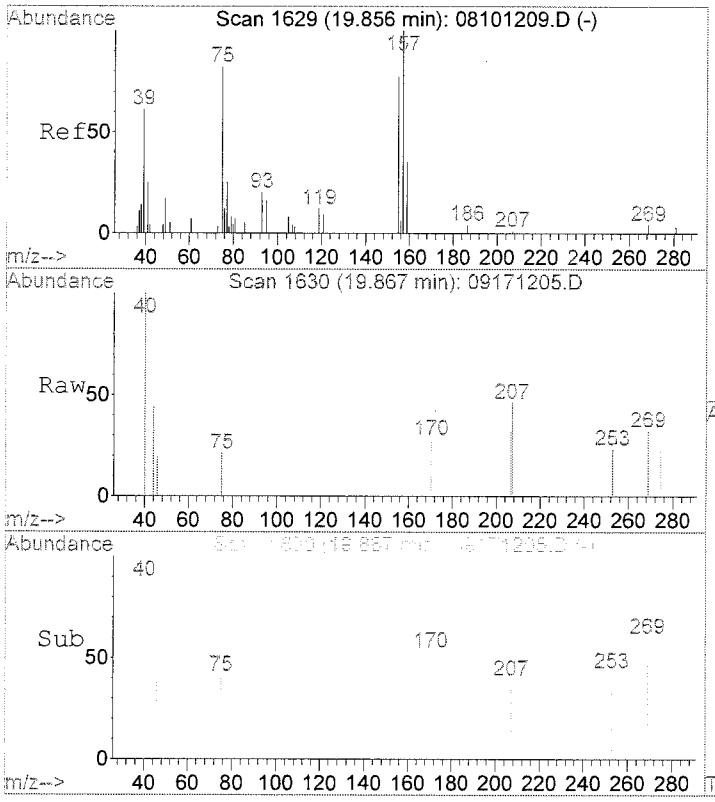


#66
1,2,3-Trichloropropane
Concen: 0.41 ug/L
RT: 16.52 min Scan# 1290
Delta R.T. -0.07 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion:110 Resp: 259

Ion	Ratio	Lower	Upper
110	100		
112	0.0	49.9	74.9#
97	0.0	42.2	63.2#

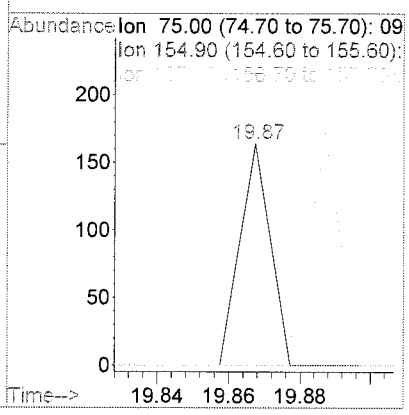


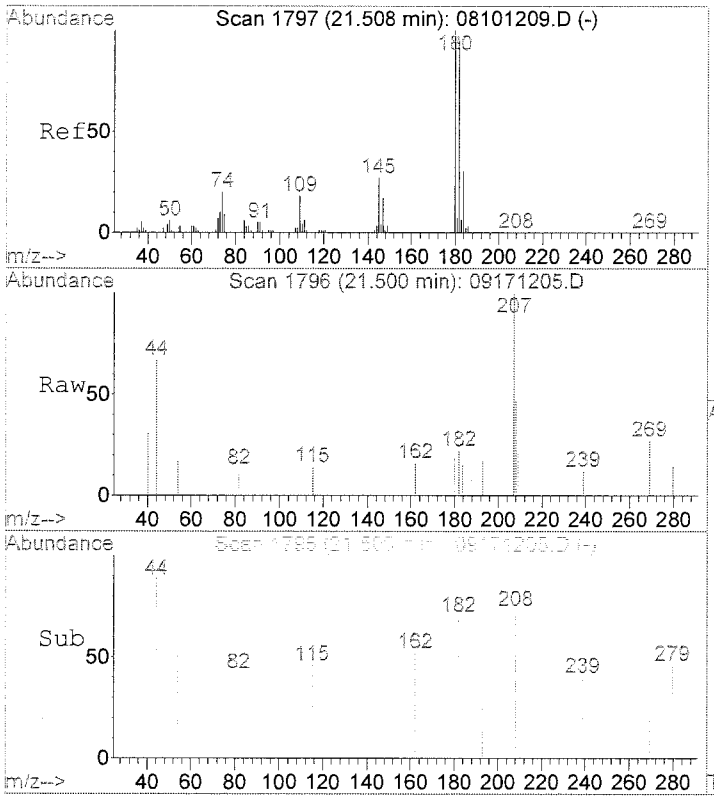


#82
1,2-Dibromo-3-chloropropane
Concen: 0.54 ug/L
RT: 19.87 min Scan# 1630
Delta R.T. 0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion: 75 Resp: 97

Ion	Ratio	Lower	Upper
75	100		
155	96.9	82.6	124.0
157	105.2	110.1	165.1#

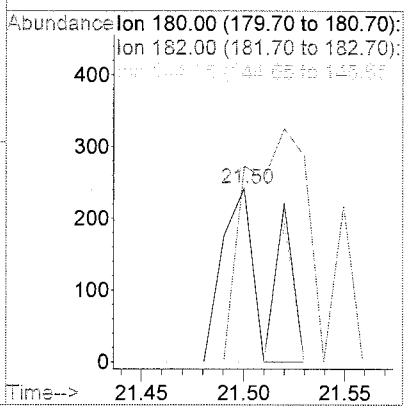


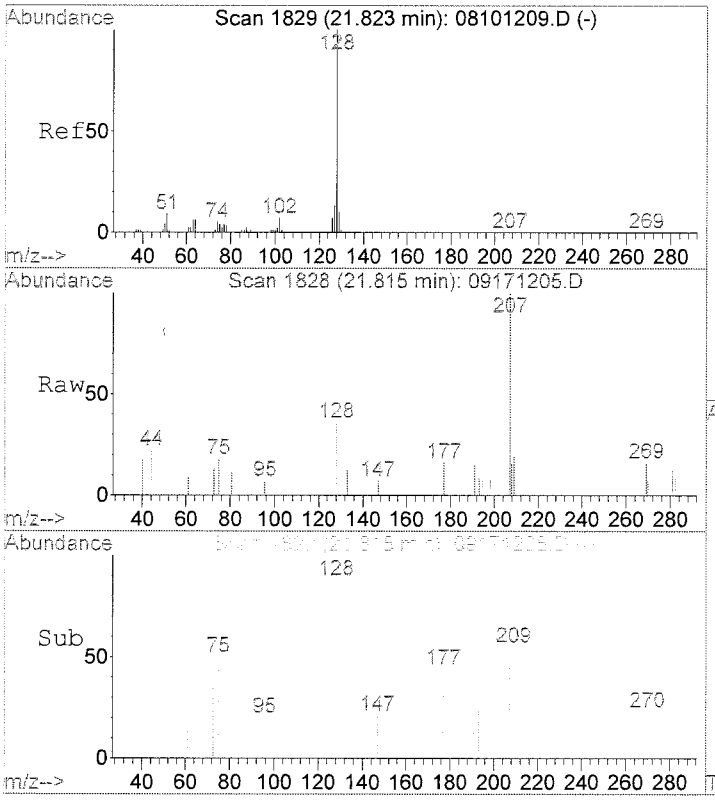


#83
1,2,4-Trichlorobenzene
Concen: 0.13 ug/L
RT: 21.50 min Scan# 1796
Delta R.T. -0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion:180 Resp: 377

Ion	Ratio	Lower	Upper
180	100		
182	212.7	77.9	116.9#
145	30.2	22.8	34.2

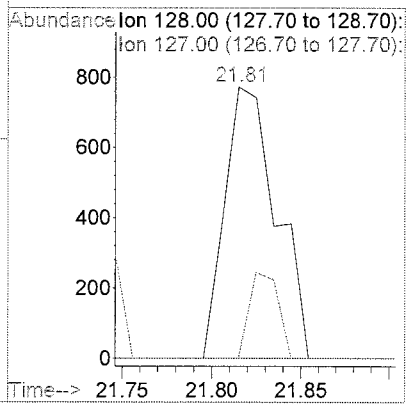


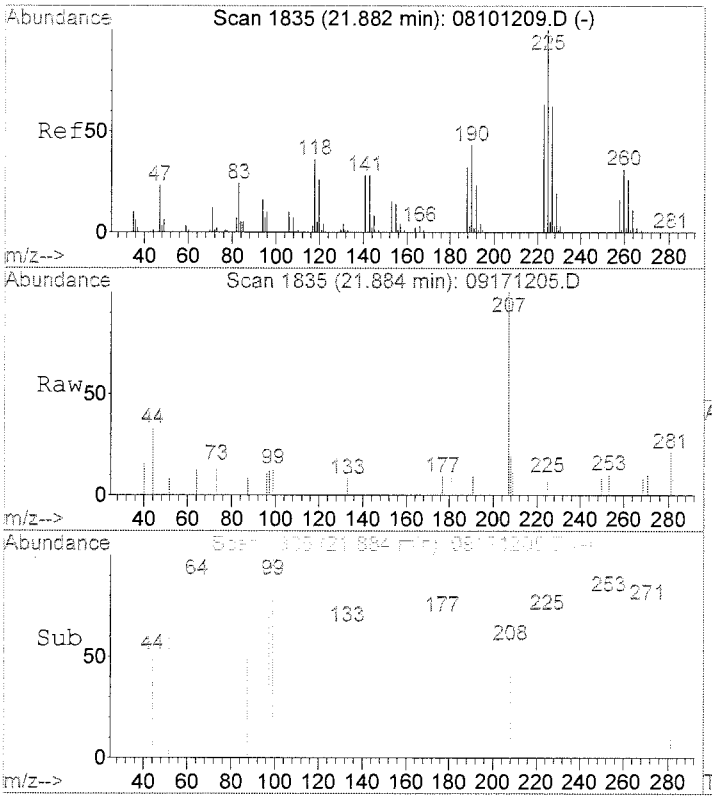


#84
Napthalene
Concen: 0.34 ug/L
RT: 21.81 min Scan# 1828
Delta R.T. -0.01 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion:128 Resp: 1553

Ion	Ratio	Lower	Upper
128	100		
127	17.8	10.2	15.4#

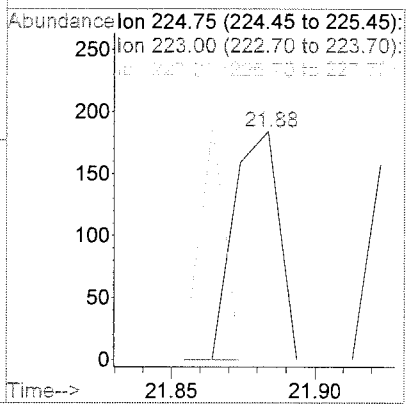


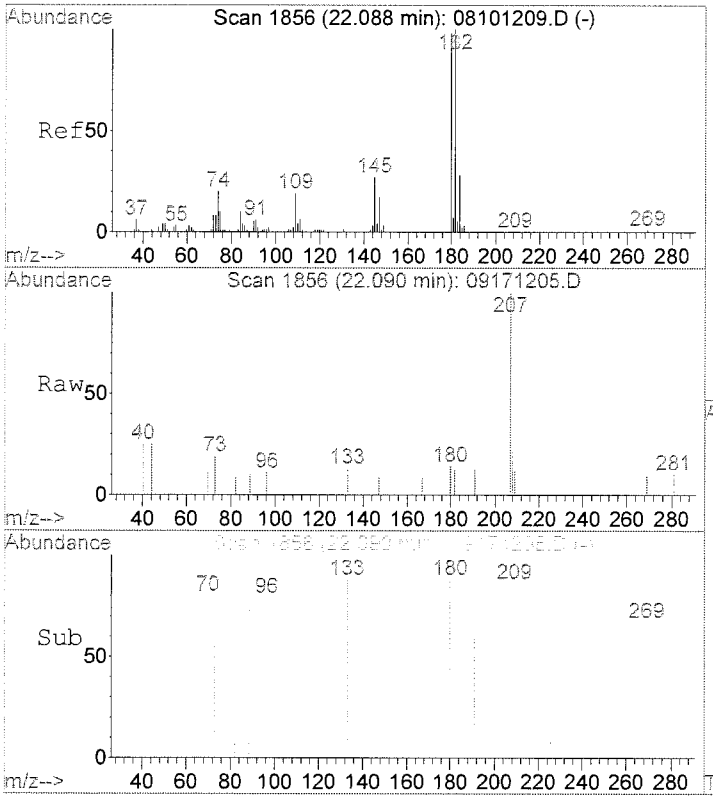


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.88 min Scan# 1835
Delta R.T. 0.00 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion:225 Resp: 202

Ion	Ratio	Lower	Upper
225	100		
223	0.0	47.8	71.8#
227	55.0	50.6	75.8

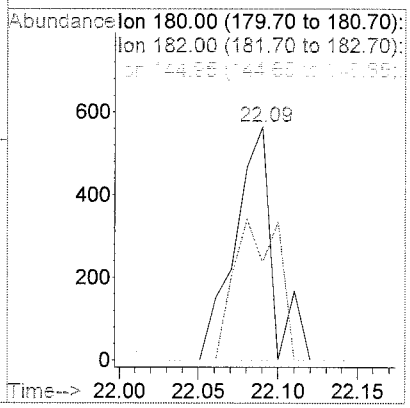




#86
1,2,3-Trichlorobenzene
Concen: 0.25 ug/L
RT: 22.09 min Scan# 1856
Delta R.T. 0.00 min
Lab File: 09171205.D
Acq: 17 Sep 2012 6:31 am

Tgt Ion:180 Resp: 925

Ion	Ratio	Lower	Upper
180	100		
182	71.1	78.9	118.3#
145	0.0	23.2	34.8#



Tentatively Identified Compound (LSC) summary

Operator ID: MNM Date Acquired: 17 Sep 2012 6:31 am
Data File: C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D
Name: 12I0548-BLK1
Misc:
Method: C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title: 8260 Purgeables Calibration
Library Searched: C:\DATABASE\NIST98.L

9/18/12

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
5-Nitro-2-furaldehyd	3.88	23.4	ug/L	15009	ISTD01	6.72	128410	200.0
Formamide, N-methylt	7.72	69.0	ug/L	44273	ISTD01	6.72	128410	200.0

NT

09171205.D 081012.M Mon Sep 17 14:04:09 2012

VC 09/18/12

LSC Area Percent Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D Vial: 5
Acq On : 17 Sep 2012 6:31 am Operator: MNM
Sample : 12I0548-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

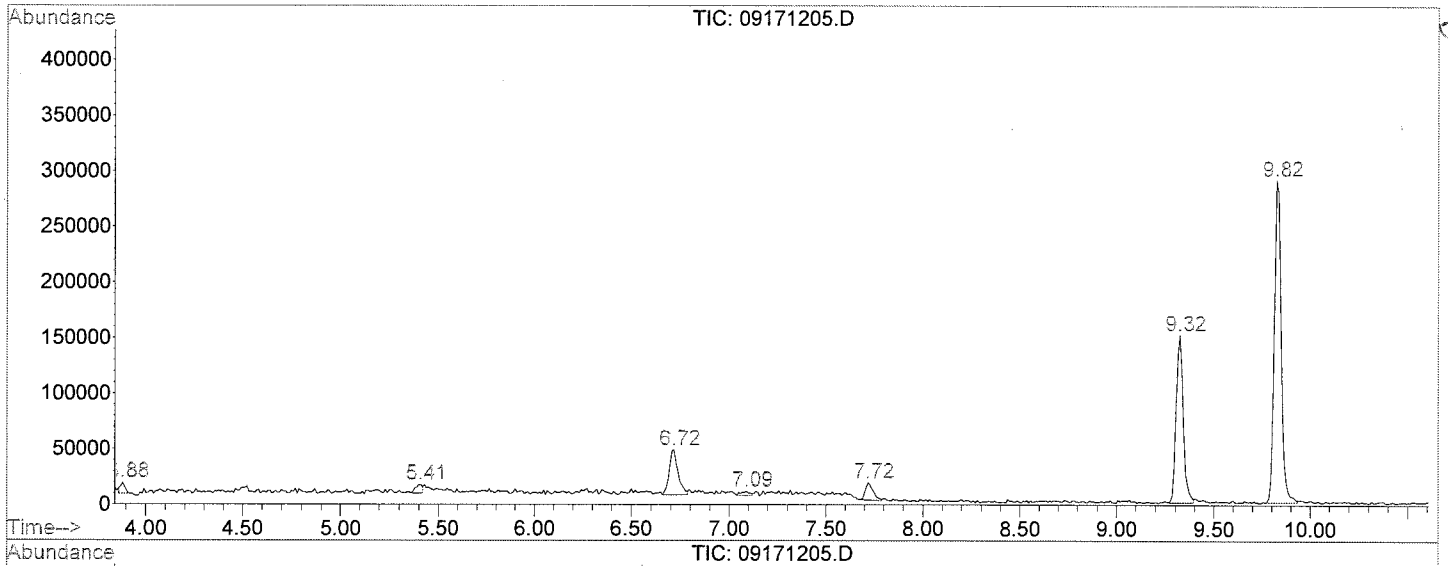
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.883	3	5	8	rVB	9874	15009	1.63%	0.310%
2	5.408	155	160	161	rBV3	7665	18923	2.05%	0.391%
3	6.716	287	293	300	rBV	40383	128410	13.91%	2.656%
4	7.090	326	331	334	rBV5	3611	10664	1.16%	0.221%
5	7.720	391	395	402	rVV2	15490	44273	4.80%	0.916%
6	9.323	552	558	565	rBV	150470	384068	41.60%	7.943%
7	9.824	603	609	620	rBV	289385	721677	78.17%	14.925%
8	10.946	717	723	732	rBV	327052	782093	84.71%	16.174%
9	13.316	958	964	971	rBV	424617	923266	100.00%	19.094%
10	15.264	1157	1162	1176	rBV	326652	746231	80.83%	15.433%
11	15.559	1188	1192	1196	rBV3	7051	15756	1.71%	0.326%
12	16.946	1328	1333	1343	rBV	218109	487928	52.85%	10.091%
13	18.766	1512	1518	1527	rBV	244946	557143	60.34%	11.522%

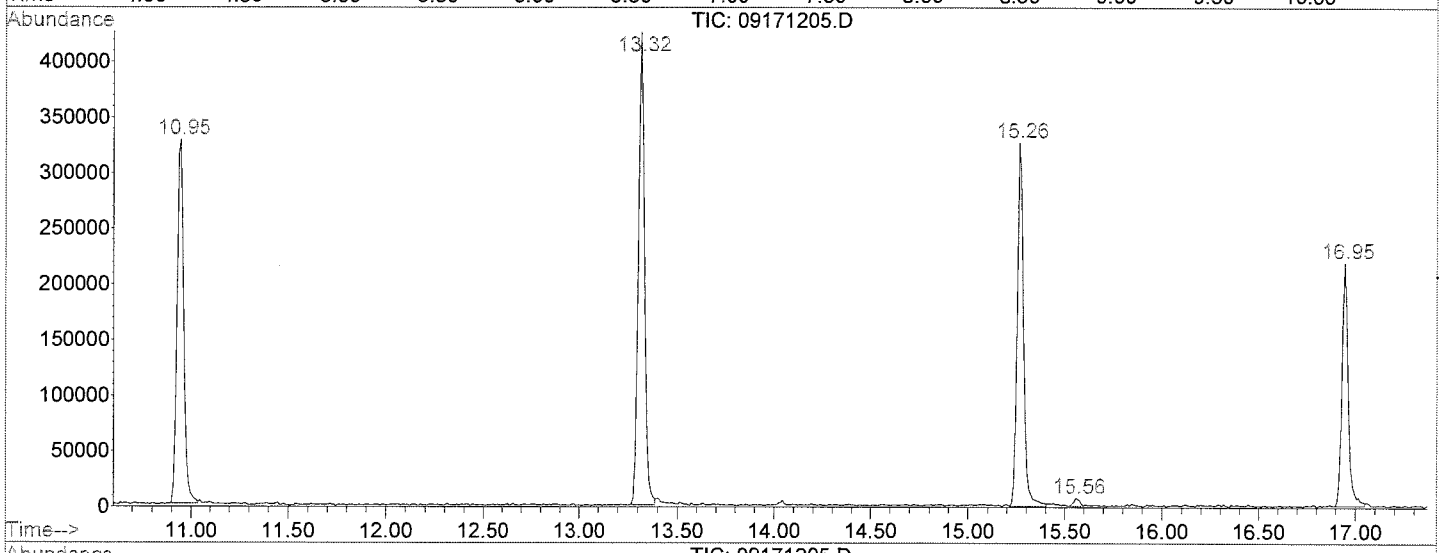
Sum of corrected areas: 4835441

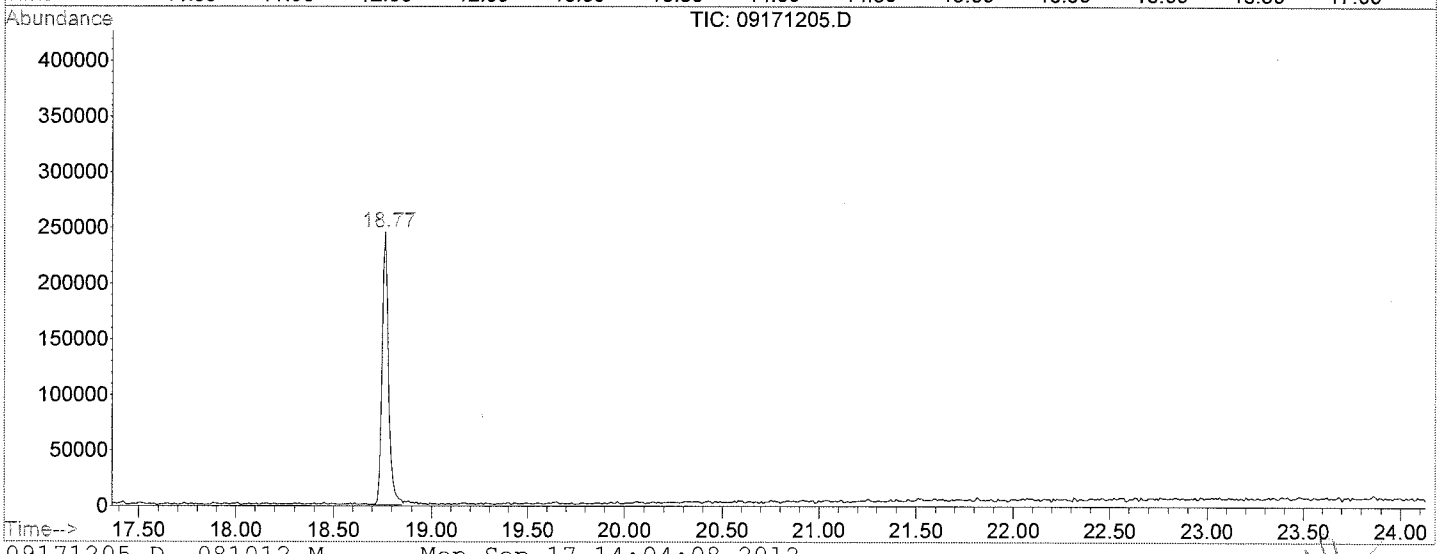
09171205.D 081012.M Mon Sep 17 14:04:08 2012

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D
Operator : MNM
Acquired : 17 Sep 2012 6:31 am using AcqMethod 8260
Instrument : GC/MS #2
Sample Name: 12I0548-BLK1
Misc Info :
Vial Number: 5
Quant File :081012.RES (RTE Integrator)







09171205.D 081012.M Mon Sep 17 14:04:08 2012

Library Search Compound Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171205.D Vial: 5
Acq On : 17 Sep 2012 6:31 am Operator: MNM
Sample : 12I0548-BLK1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Library : C:\DATABASE\NIST98.L

7

****
Peak Number 1 5-Nitro-2-furaldehyde p-tosylh Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.88	23.38 ug/L	15009	TBA-d9	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Nitro-2-furaldehyde p-tosylhydraz	309	C12H11N3O5S	1000222-65-9	9
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	4
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	4
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	1,2-Benzenediol, 4-(2-aminoethyl)-	153	C8H11NO2	000051-61-6	3

****
Peak Number 2 Formamide, N-methylthio Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.72	68.96 ug/L	44273	TBA-d9	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formamide, N-methylthio	75	C2H5NS	1000196-87-7	78
2	Acetic acid, (trimethylsilyl)-	132	C5H12O2Si	002345-38-2	64
3	Methanamine, N,N-dimethyl-, N-oxide	75	C3H9NO	001184-78-7	56
4	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	56
5	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	56

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171207.D Vial: 7
Acq On : 17 Sep 2012 7:36 am Operator: MNM
Sample : PVI0867-01 Inst : GC/MS #2
Misc : TB Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:55 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	57853	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	273335	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	388898	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	273704	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	100112	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	130480	27.29 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 109.16%	
48) Toluene-d8	13.31	98	369683	24.07 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 96.28%	
62) 4-Bromofluorobenzene	16.94	95	109748	25.95 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 103.80%	

Target Compounds					Qvalue
2) Ethanol	5.25	45	678	21.74 ug/L	76
3) tert-Butanol (TBA)	6.83	59	210	0.62 ug/L #	1
9) Bromomethane	5.10	94	2861	0.52 ug/L #	10
12) Acetone	6.25	43	10261	8.92 ug/L	95
15) Methylene Chloride	6.98	84	601	0.12 ug/L	83
23) 2-Butanone (MEK)	8.59	72	98	0.25 ug/L #	1
31) Tetrahydrofuran	9.60	72	257	0.72 ug/L #	1
32) 1,2-Dichloroethane	9.82	62	1191	0.29 ug/L #	46
51) 1,3-Dichloropropane	13.31	76	3763	0.77 ug/L	90
66) 1,2,3-Trichloropropane	16.45	110	94	0.15 ug/L #	39
67) trans-1,4-Dichloro-2-buten	16.56	53	91	1.15 ug/L #	27
82) 1,2-Dibromo-3-chloropropan	19.93	75	204	0.91 ug/L #	1
86) 1,2,3-Trichlorobenzene	22.14	180	91	Below Cal #	11

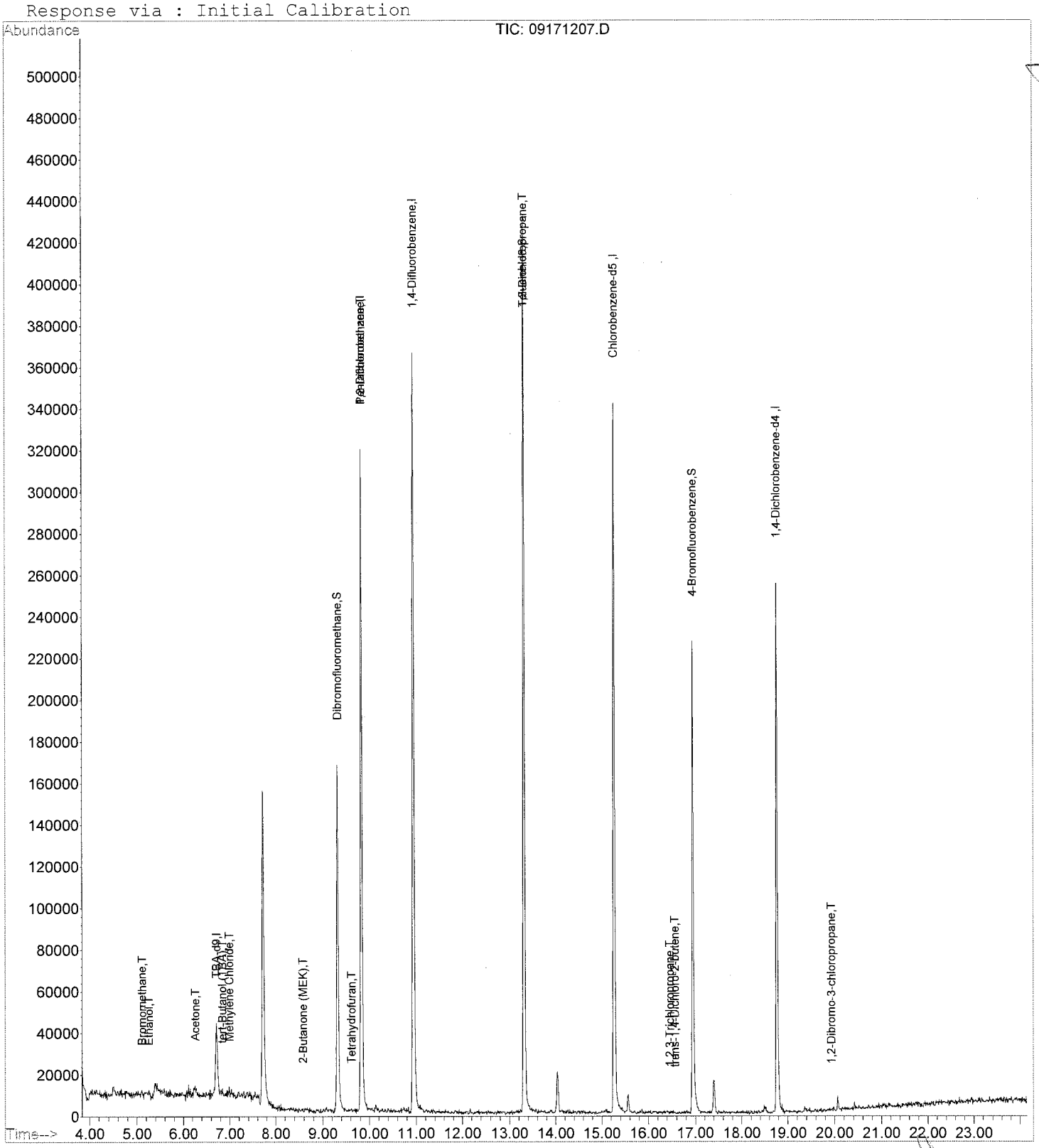
(#) = qualifier out of range (m) = manual integration
09171207.D 081012.M Mon Sep 17 13:55:51 2012

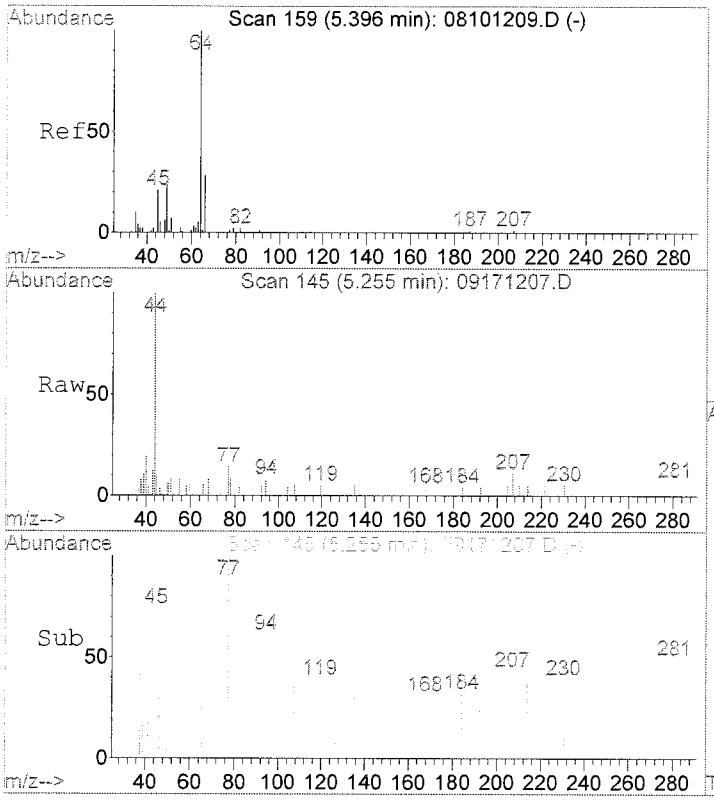
LC 091812

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171207.D Vial: 7
Acq On : 17 Sep 2012 7:36 am Operator: MNM
Sample : PVI0867-01 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:55 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

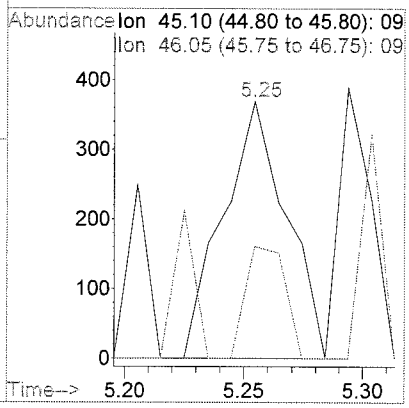


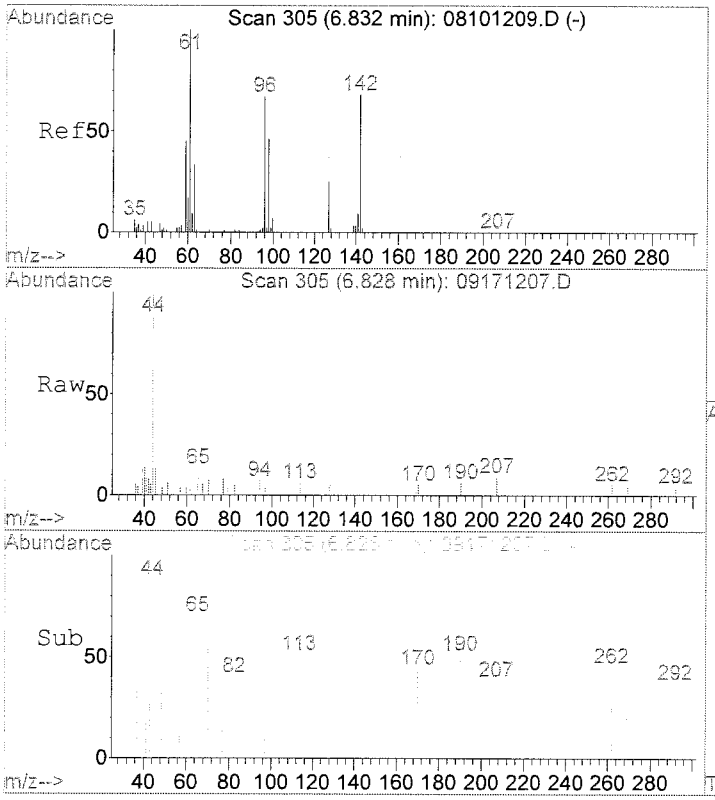


#2
Ethanol
Concen: 21.74 ug/L
RT: 5.25 min Scan# 145
Delta R.T. -0.14 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 45 Resp: 678

Ion	Ratio	Lower	Upper
45	100		
46	41.6	39.9	79.9

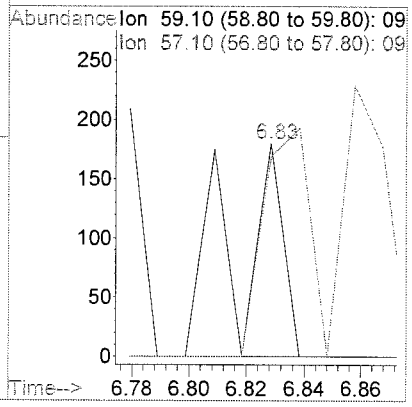


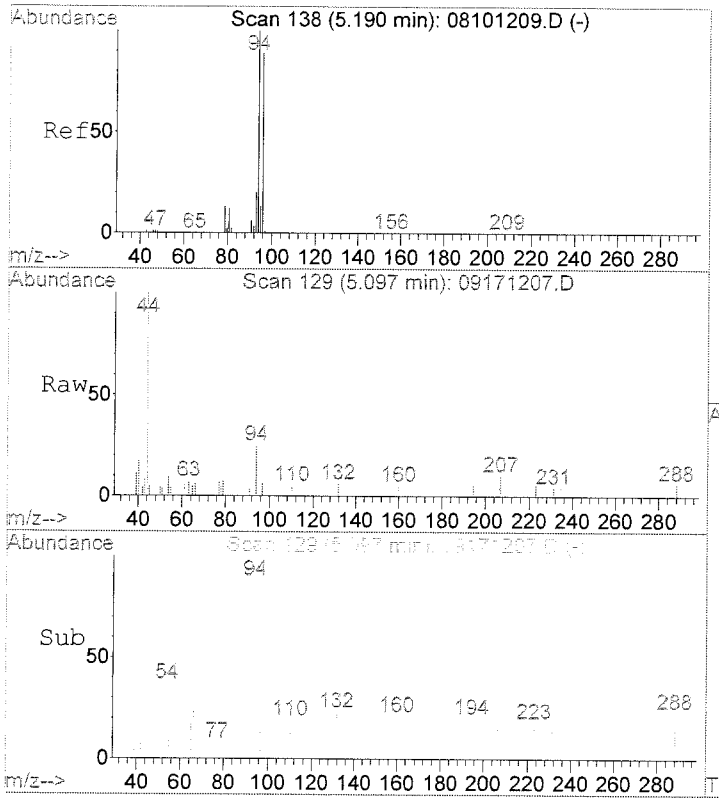


#3
tert-Butanol (TBA)
Concen: 0.62 ug/L
RT: 6.83 min Scan# 305
Delta R.T. -0.00 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 59 Resp: 210

Ion	Ratio	Lower	Upper
59	100		
57	101.9	6.4	9.6#

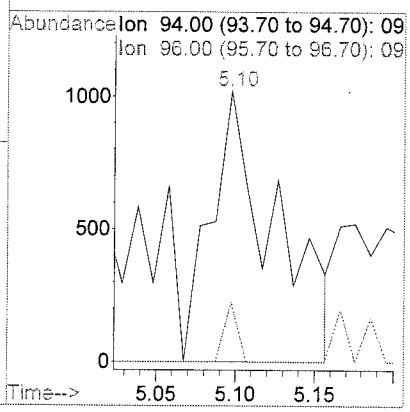


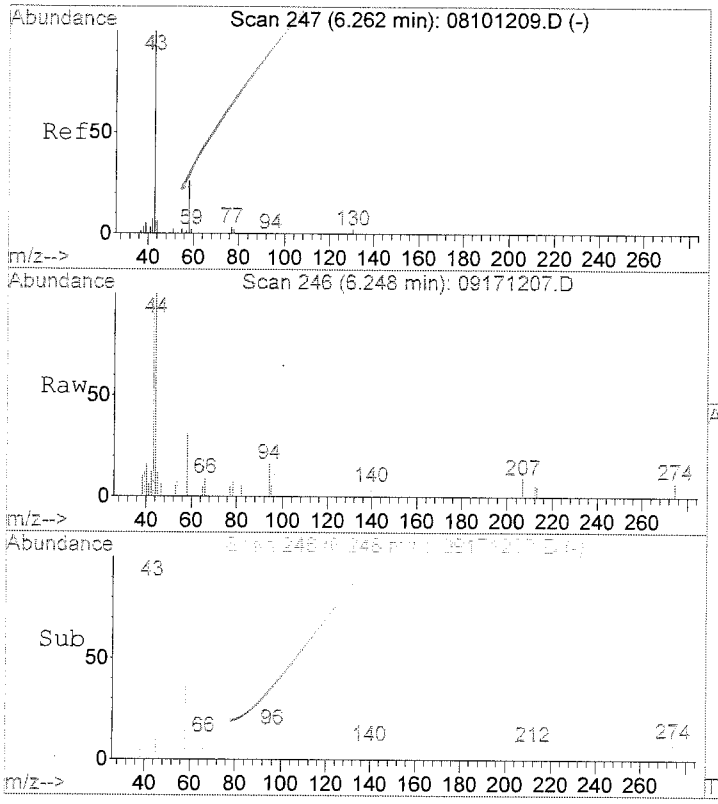


#9
Bromomethane
Concen: 0.52 ug/L
RT: 5.10 min Scan# 129
Delta R.T. -0.09 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 94 Resp: 2861

Ion	Ratio	Lower	Upper
94	100		
96	7.5	75.8	113.6#

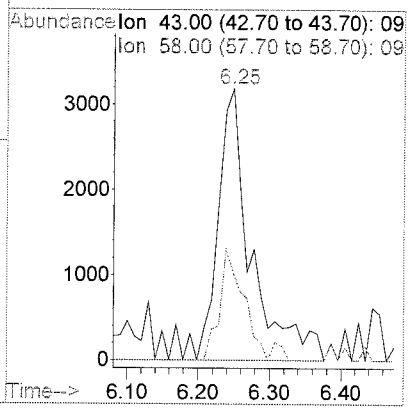


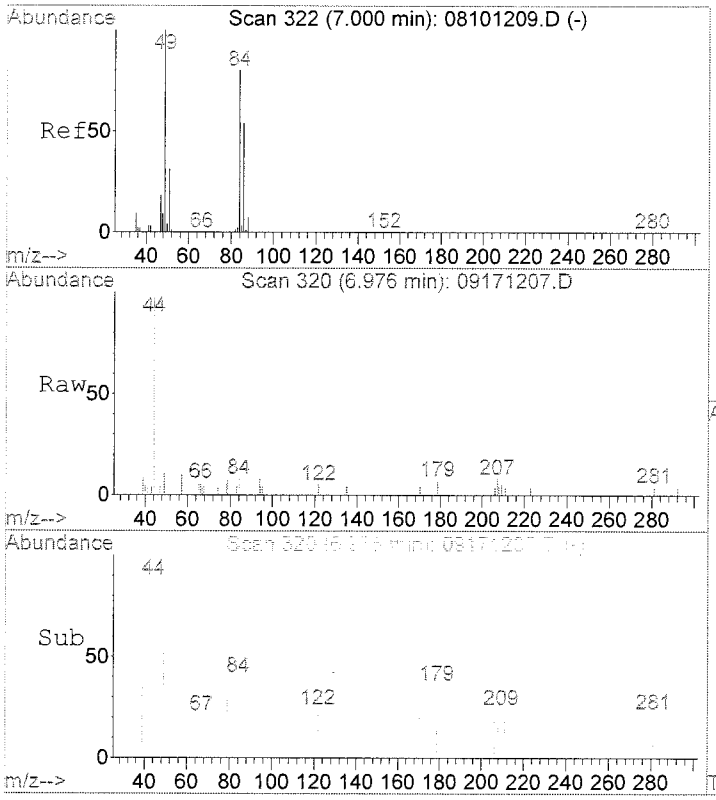


#12
Acetone
Concen: 8.92 ug/L
RT: 6.25 min Scan# 246
Delta R.T. -0.01 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 43 Resp: 10261

Ion	Ratio	Lower	Upper
43	100		
58	29.4	25.9	38.9

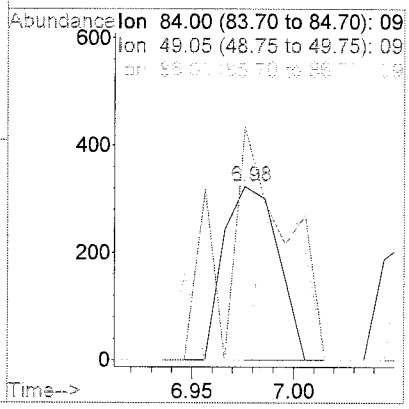


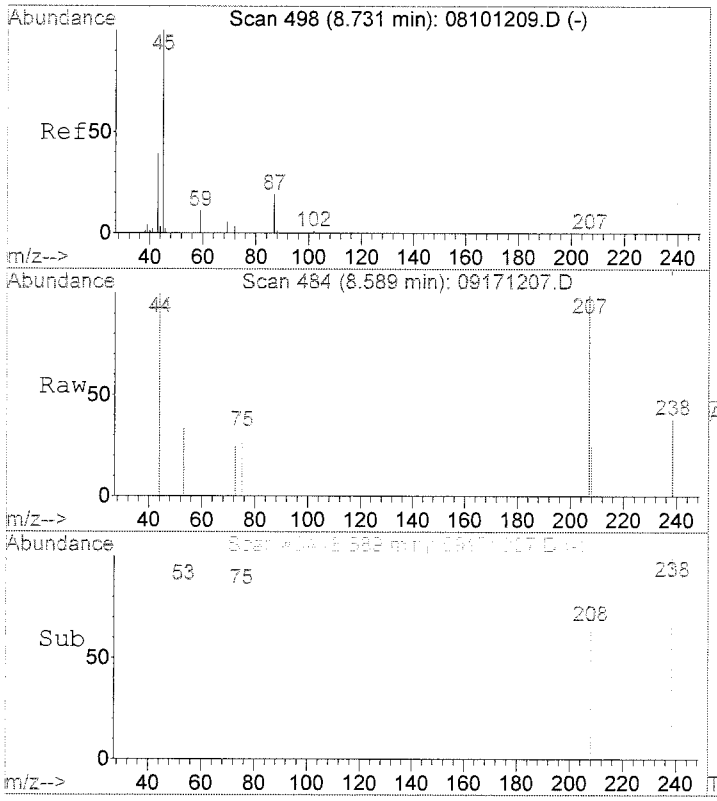


#15
Methylene Chloride
Concen: 0.12 ug/L
RT: 6.98 min Scan# 320
Delta R.T. -0.02 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 84 Resp: 601

Ion	Ratio	Lower	Upper
84	100		
49	150.2	103.4	155.0
86	75.9	52.0	78.0

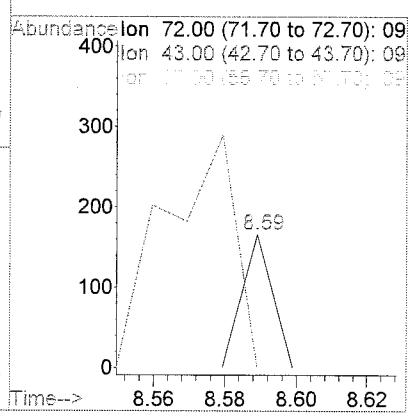


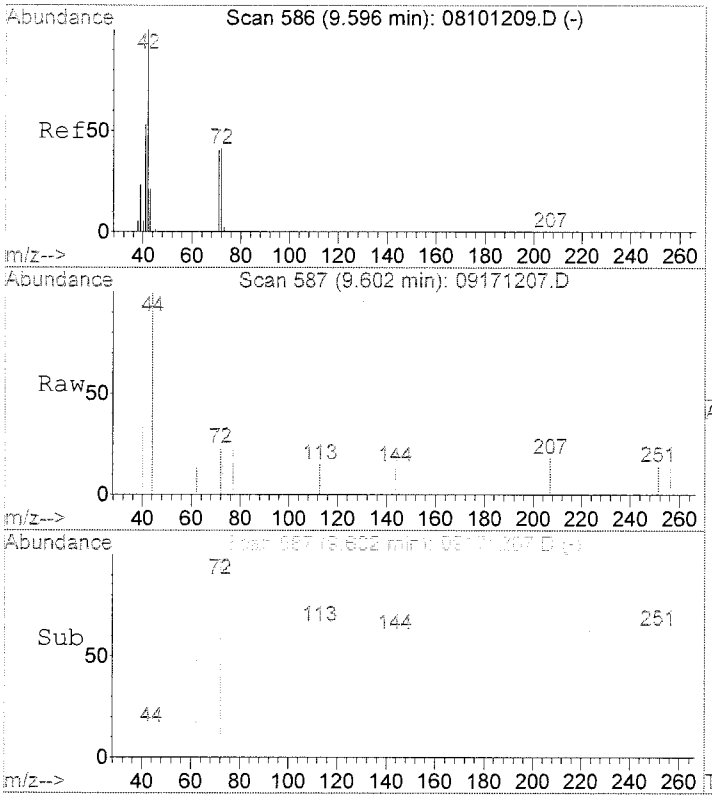


#23
2-Butanone (MEK)
Concen: 0.25 ug/L
RT: 8.59 min Scan# 484
Delta R.T. -0.14 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 72 Resp: 98

Ion	Ratio	Lower	Upper
72	100		
43	406.1	1366.5	2049.7#
57	0.0	0.0	0.0

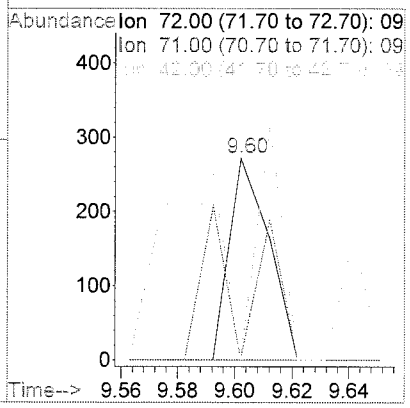


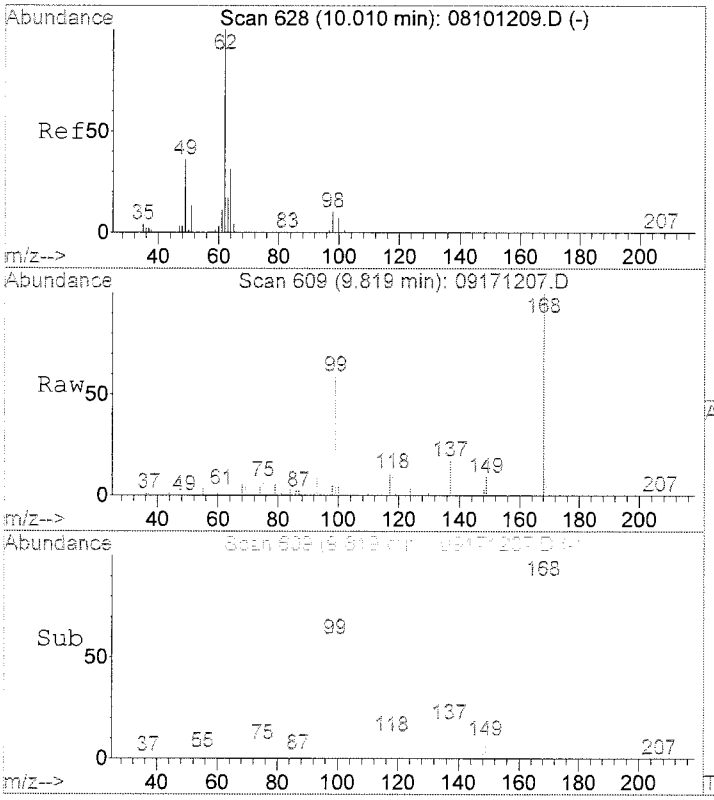


#31
Tetrahydrofuran
Concen: 0.72 ug/L
RT: 9.60 min Scan# 587
Delta R.T. 0.01 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 72 Resp: 257

Ion	Ratio	Lower	Upper
72	100		
71	0.0	79.1	118.7#
42	72.0	217.1	325.7#

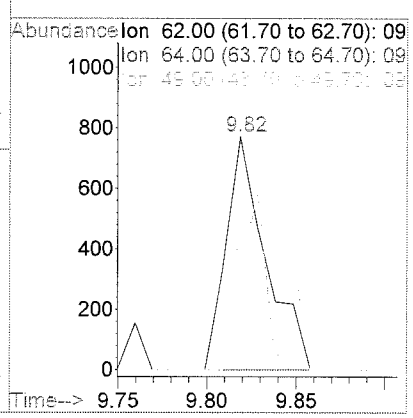


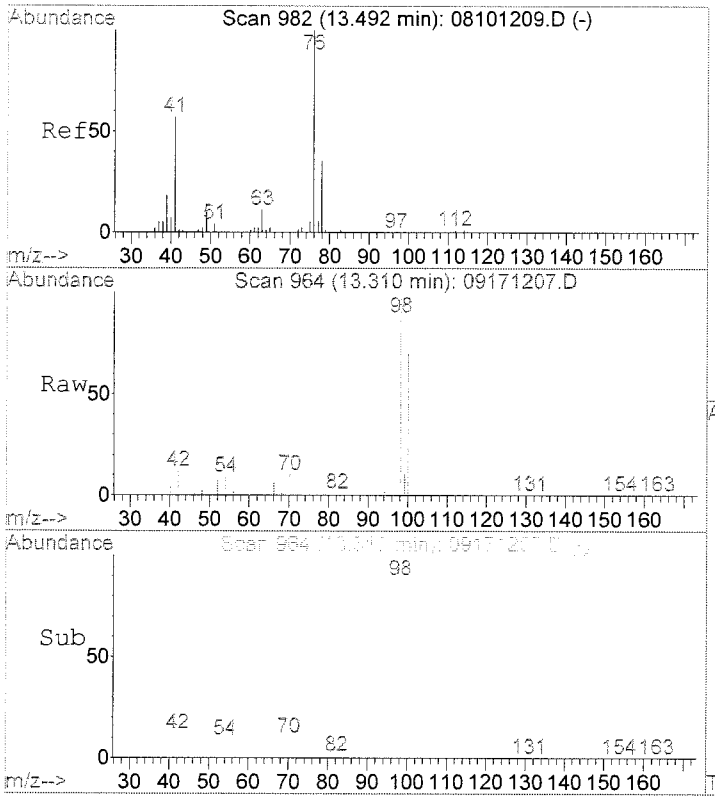


#32
1,2-Dichloroethane
Concen: 0.29 ug/L
RT: 9.82 min Scan# 609
Delta R.T. -0.19 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 62 Resp: 1191

Ion	Ratio	Lower	Upper
62	100		
64	0.0	26.4	39.6#
49	63.6	28.0	42.0#

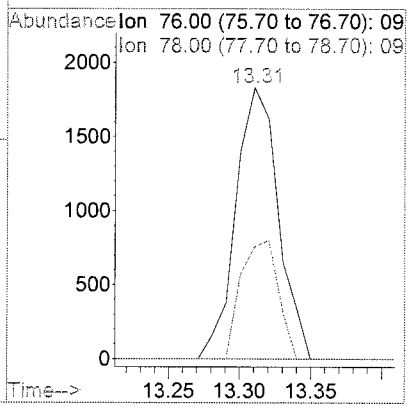


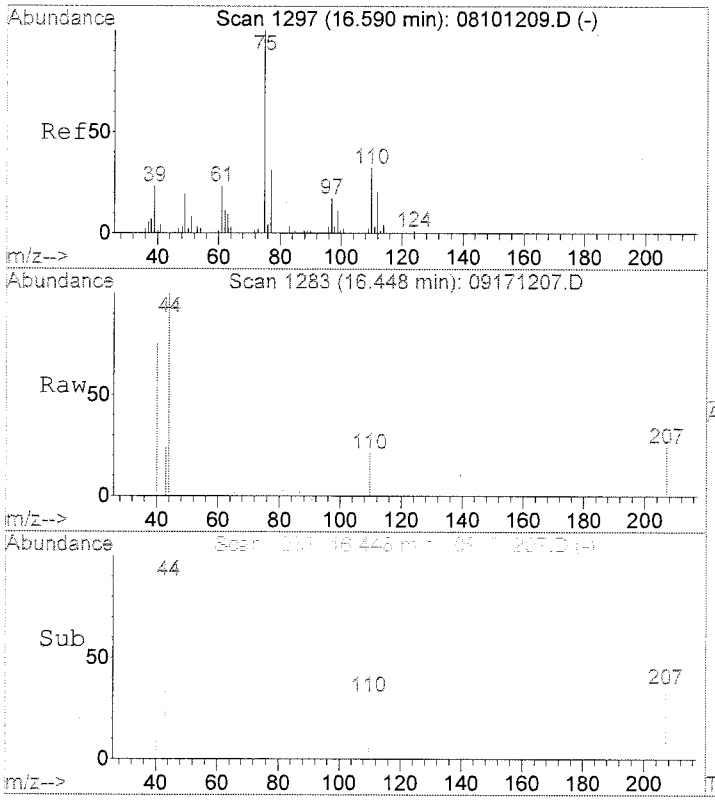


#51
1,3-Dichloropropane
Concen: 0.77 ug/L
RT: 13.31 min Scan# 964
Delta R.T. -0.18 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 76 Resp: 3763

Ion	Ratio	Lower	Upper
76	100		
78	38.3	26.1	39.1

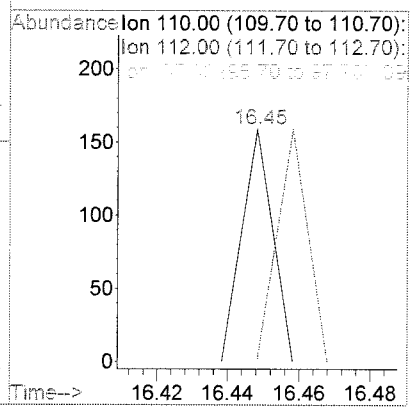


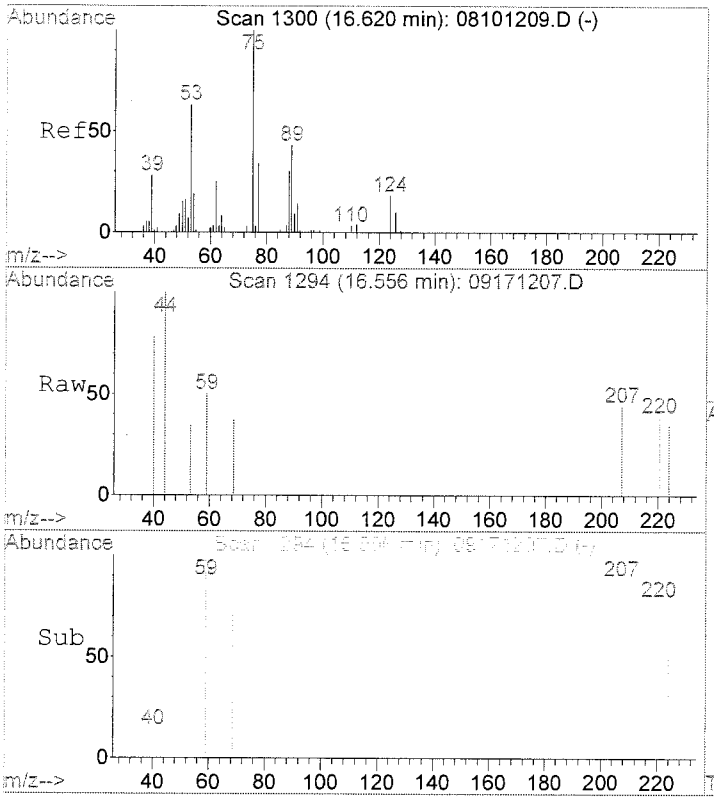


#66
1,2,3-Trichloropropane
Concen: 0.15 ug/L
RT: 16.45 min Scan# 1283
Delta R.T. -0.14 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion:110 Resp: 94

Ion	Ratio	Lower	Upper
110	100		
112	100.0	49.9	74.9#
97	0.0	42.2	63.2#

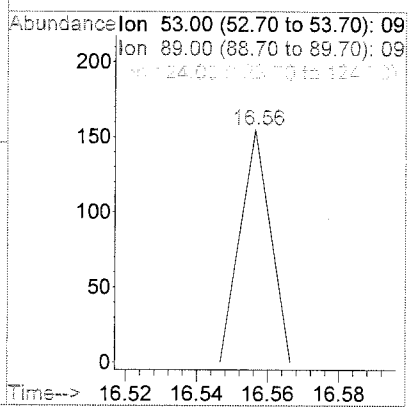


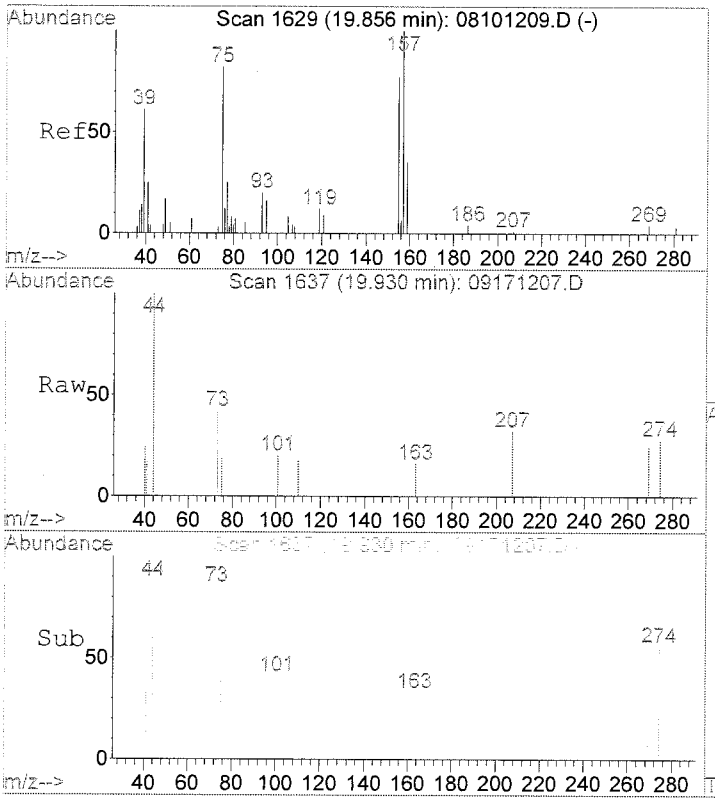


#67
trans-1,4-Dichloro-2-butene
Concen: 1.15 ug/L
RT: 16.56 min Scan# 1294
Delta R.T. -0.06 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 53 Resp: 91

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#

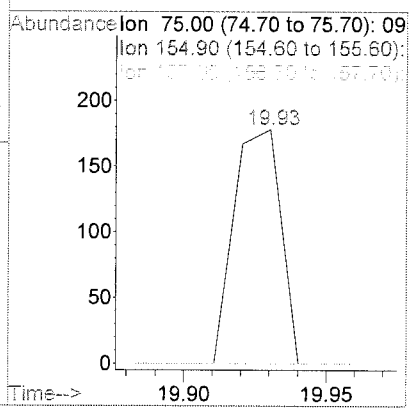


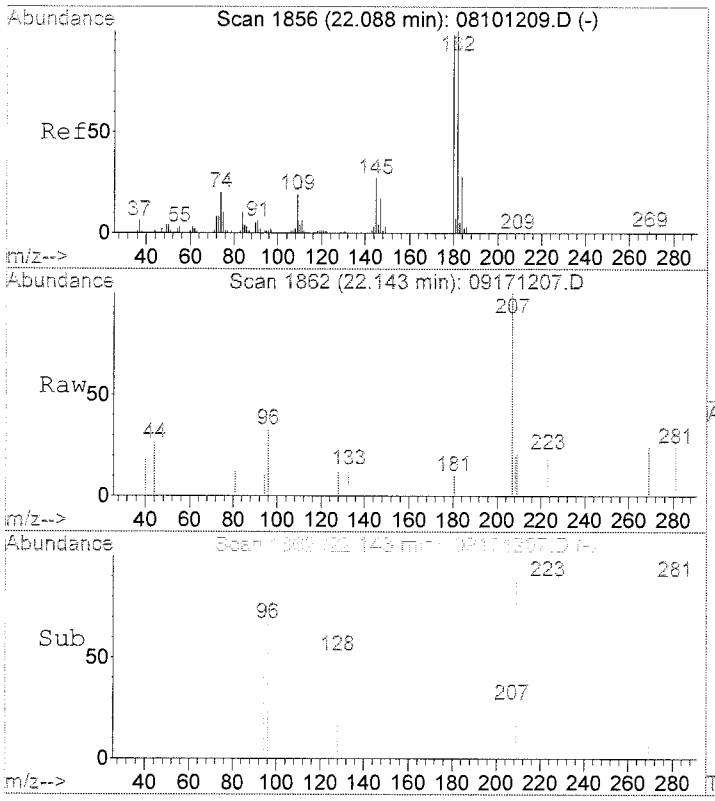


#82
1,2-Dibromo-3-chloropropane
Concen: 0.91 ug/L
RT: 19.93 min Scan# 1637
Delta R.T. 0.08 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion: 75 Resp: 204

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

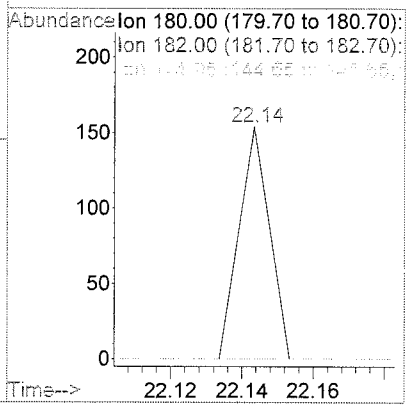




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.14 min Scan# 1862
Delta R.T. 0.06 min
Lab File: 09171207.D
Acq: 17 Sep 2012 7:36 am

Tgt Ion:180 Resp: 91

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171210.D Vial: 10
Acq On : 17 Sep 2012 9:14 am Operator: MNM
Sample : PVI0875-01 Inst : GC/MS #2
Misc : Source Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:56 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.71	65	63224	200.00	ug/L	-0.01
4) Pentafluorobenzene	9.83	168	264809	25.00	ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	361708	25.00	ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	271052	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	97983	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.32	113	120163	25.95	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	103.80%	
48) Toluene-d8	13.31	98	363274	25.43	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	16.94	95	103956	24.82	ug/L	-0.01
Spiked Amount 25.000			Recovery	=	99.28%	

Target Compounds						Qvalue
2) Ethanol	5.40	45	11865	348.09	ug/L #	70
3) tert-Butanol (TBA)	6.80	59	7429	20.09	ug/L #	82
9) Bromomethane	5.07	94	1350	0.26	ug/L #	2
12) Acetone	6.24	43	2065	1.85	ug/L #	86
14) 1,1-Dichloroethene	6.79	96	140076	26.31	ug/L	96
15) Methylene Chloride	6.98	84	6652	1.40	ug/L	93
16) Freon 113	7.05	101	10160	1.84	ug/L	91
19) MTBE	8.00	73	1349	0.15	ug/L #	85
20) 1,1-Dichloroethane	8.17	63	1496	0.16	ug/L	94
25) cis-1,2-Dichloroethene	8.89	96	61070	10.87	ug/L	97
27) Chloroform	9.16	83	40570	4.84	ug/L	95
31) Tetrahydrofuran	9.59	72	401	1.16	ug/L #	63
32) 1,2-Dichloroethane	10.12	62	26704	6.60	ug/L #	72
33) 1,1,1-Trichloroethane	10.12	97	458093	65.21	ug/L	98
34) (TAME) tert-Amyl methyl et	10.94	73	3211	0.34	ug/L #	41
37) Carbon Tetrachloride	10.60	117	1245	0.21	ug/L	88
40) 1,2-Dichloropropane	11.47	63	15474	3.52	ug/L #	1
41) Trichloroethene	11.47	95	4184139	808.66	ug/L	98
42) Bromodichloromethane	11.47	83	53907	10.65	ug/L #	95
49) Toluene	13.41	92	3056	0.29	ug/L #	91
55) Tetrachloroethene	14.39	164	87930	18.41	ug/L	96
59) m,p-Xylenes	15.84	106	1389	0.19	ug/L #	58
61) o-Xylene	16.38	106	722	0.11	ug/L #	55
66) 1,2,3-Trichloropropane	16.49	110	109	0.17	ug/L #	46
67) trans-1,4-Dichloro-2-buten	16.73	53	97	1.17	ug/L #	38
80) 1,2-Dichlorobenzene	19.26	146	2332	0.44	ug/L #	76
82) 1,2-Dibromo-3-chloropropan	19.98	75	111	0.59	ug/L #	1
86) 1,2,3-Trichlorobenzene	22.21	180	113	Below Cal	#	11

NR E RR@10x

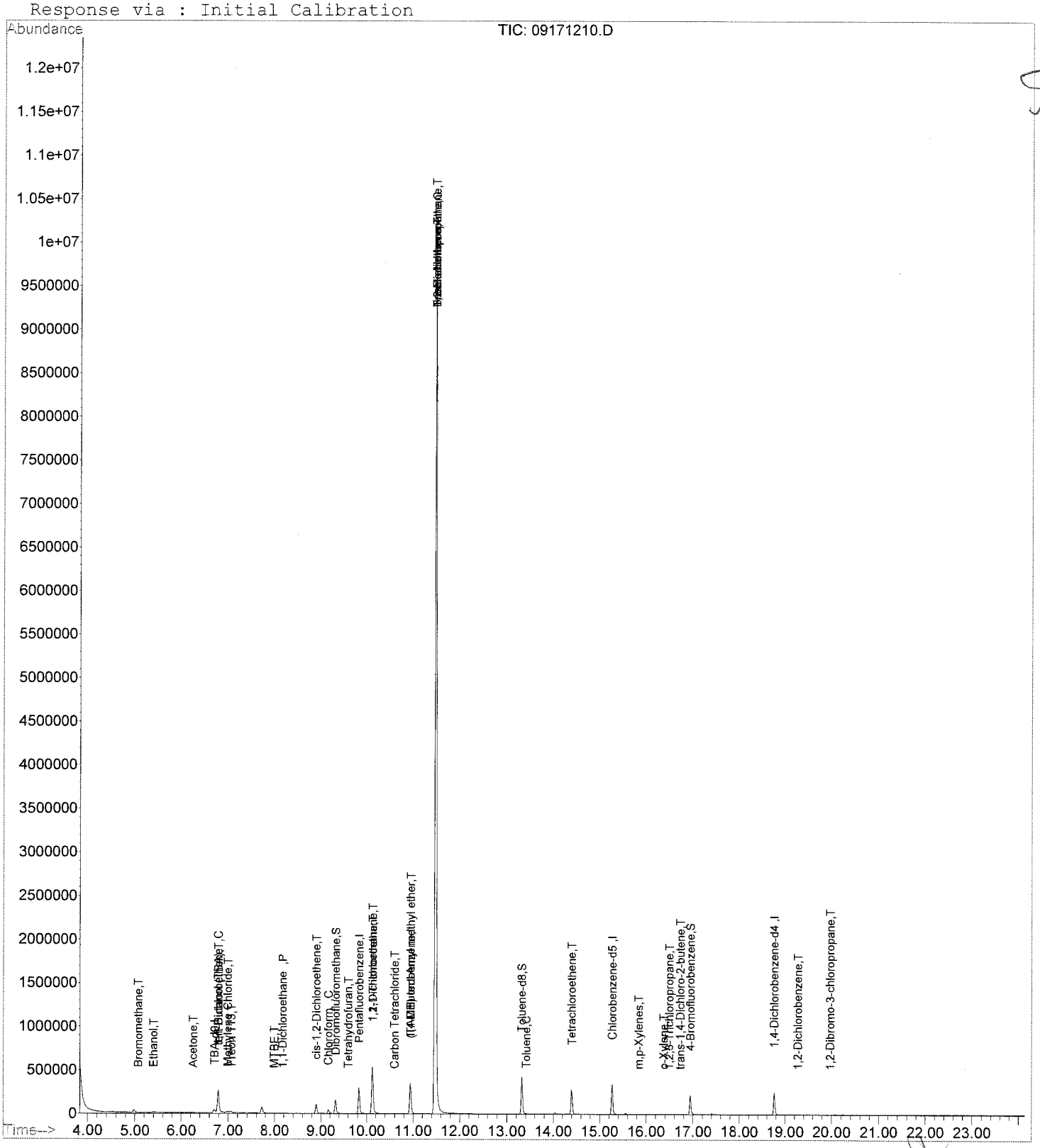
LL 09/18/12

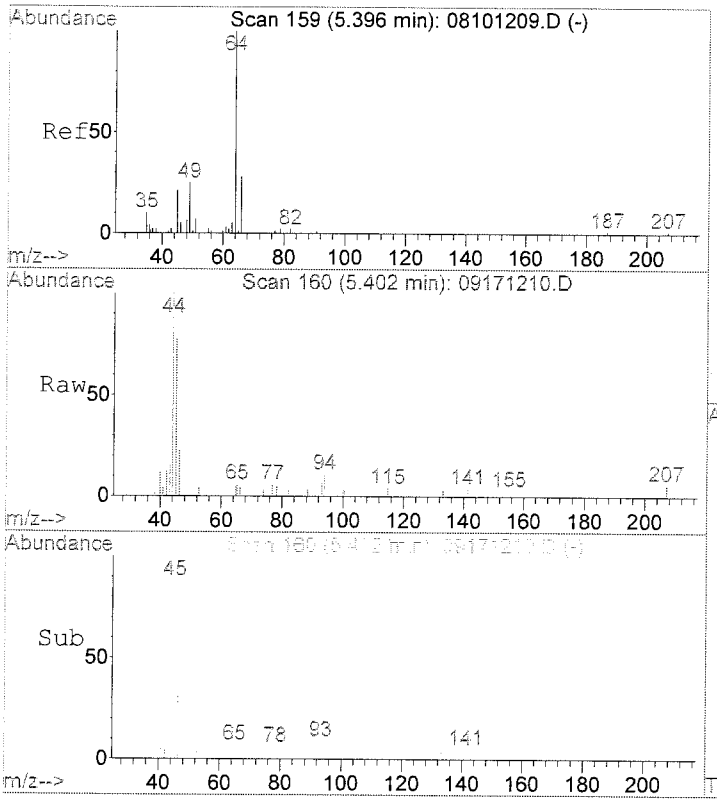
(#) = qualifier out of range (m) = manual integration
09171210.D 081012.M Mon Sep 17 13:57:20 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171210.D Vial: 10
Acq On : 17 Sep 2012 9:14 am Operator: MNM
Sample : PVI0875-01 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:56 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

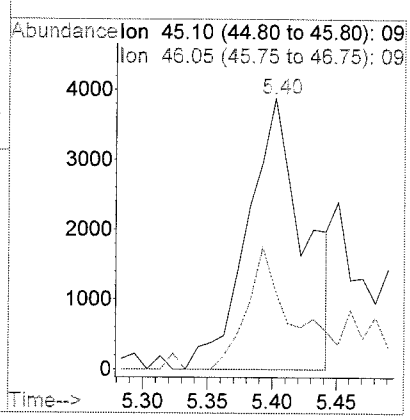


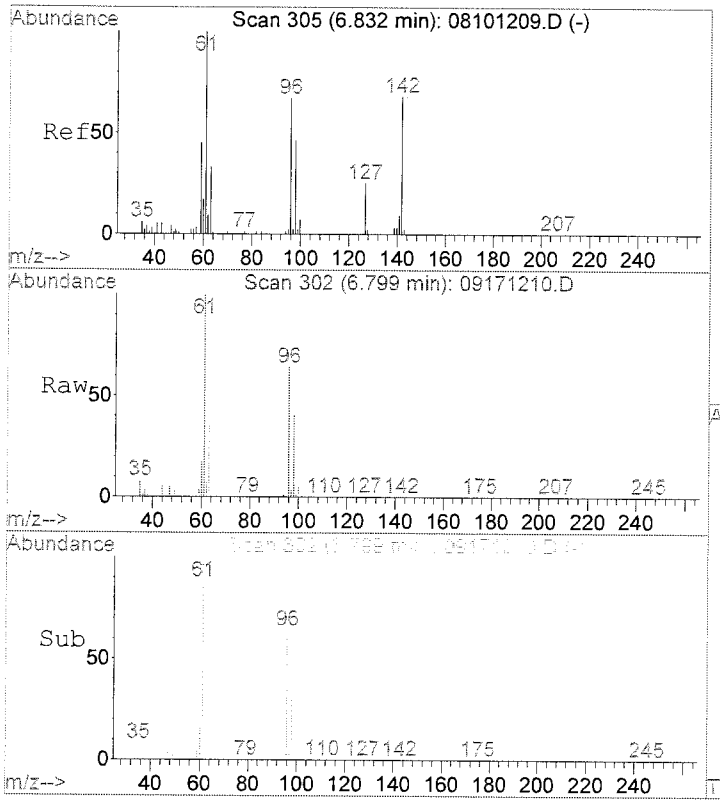


#2
Ethanol
Concen: 348.09 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 45 Resp: 11865

Ion	Ratio	Lower	Upper
45	100		
46	37.0	39.9	79.9#

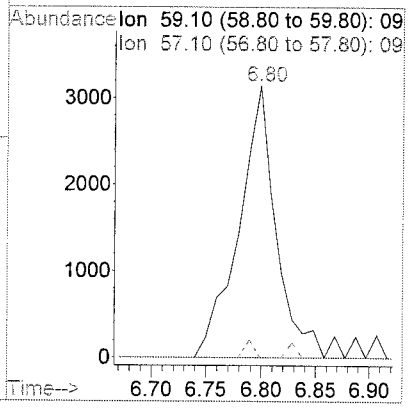


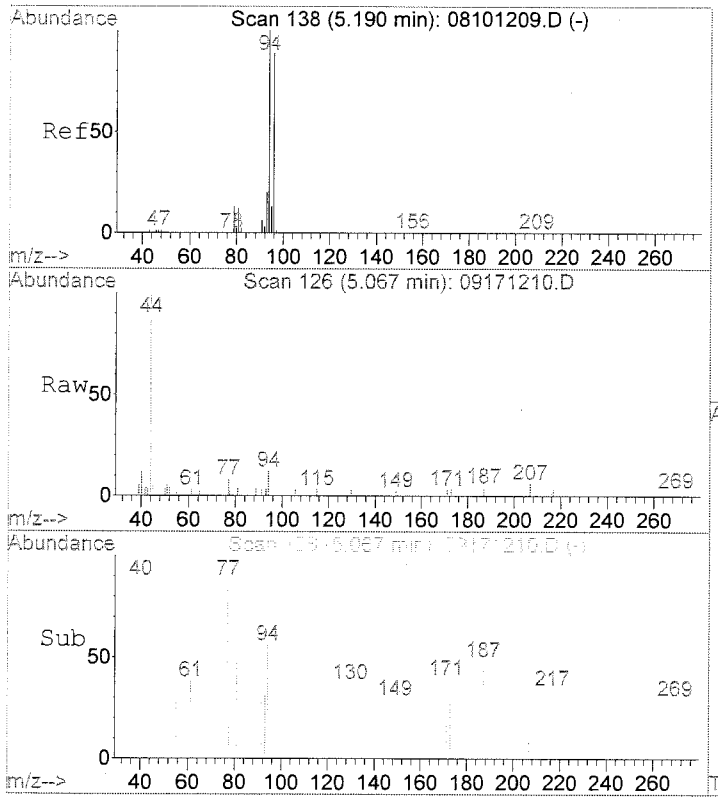


#3
tert-Butanol (TBA)
Concen: 20.09 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 59 Resp: 7429

Ion	Ratio	Lower	Upper
59	100		
57	1.6	6.4	9.6#

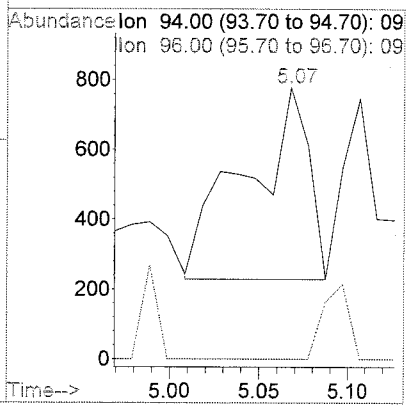




#9
Bromomethane
Concen: 0.26 ug/L
RT: 5.07 min Scan# 126
Delta R.T. -0.12 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 94 Resp: 1350

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.8	113.6#



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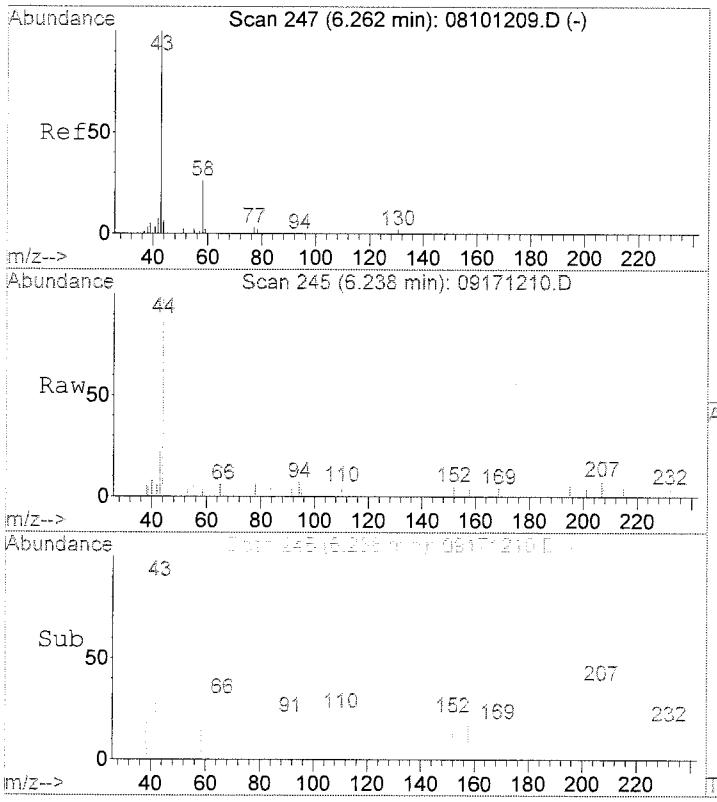
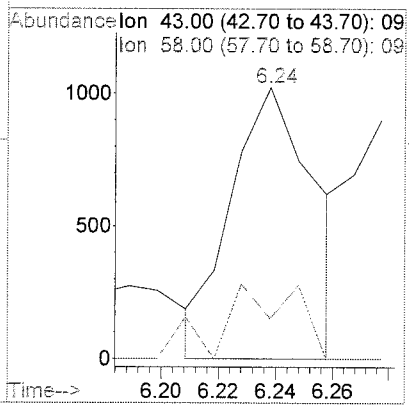


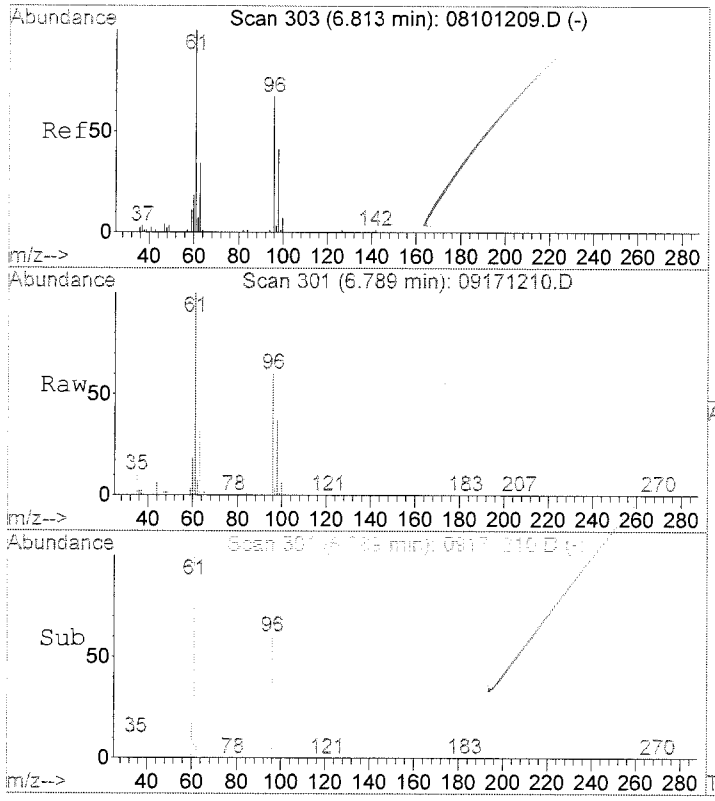
#12
Acetone
Concen: 1.85 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 43 Resp: 2065

Ion	Ratio	Lower	Upper
43	100		
58	24.8	25.9	38.9#



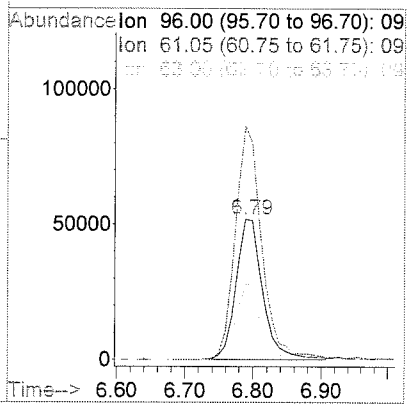
12

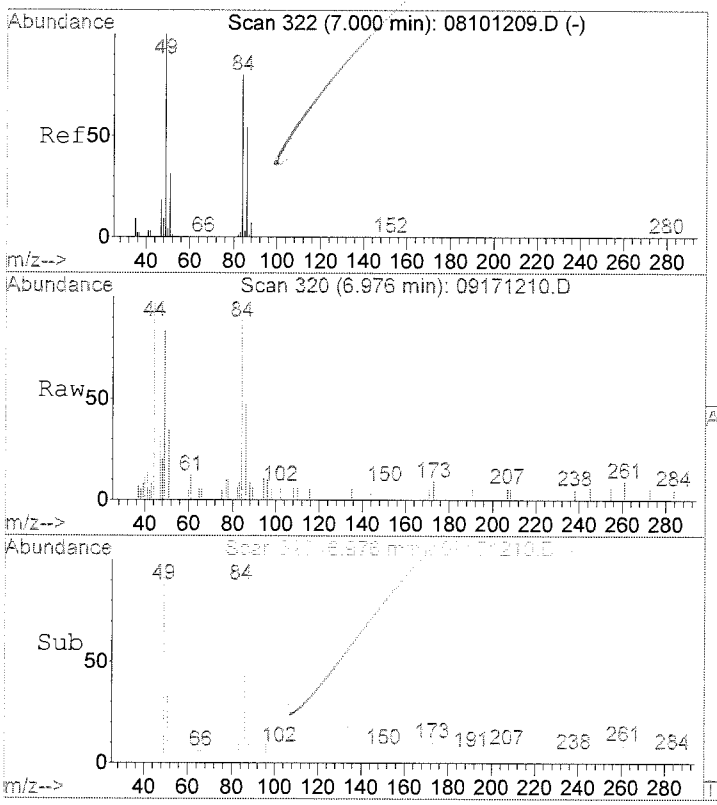


#14
1,1-Dichloroethene
Concen: 26.31 ug/L
RT: 6.79 min Scan# 301
Delta R.T. -0.02 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 96 Resp: 140076

Ion	Ratio	Lower	Upper
96	100		
61	166.2	128.0	192.0
63	54.0	41.2	61.8

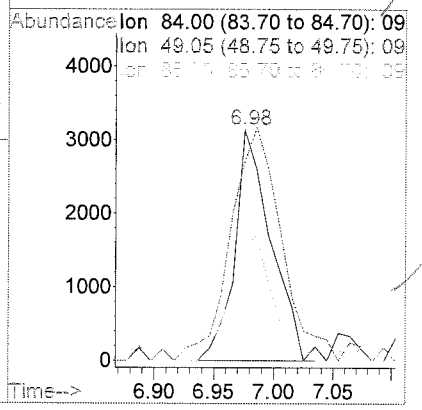


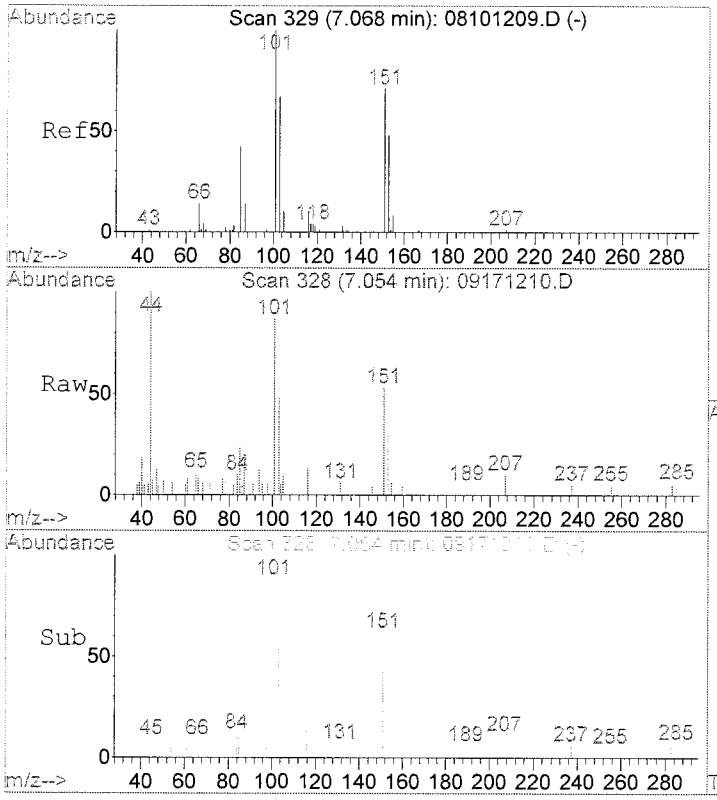


#15
Methylene Chloride
Concen: 1.40 ug/L
RT: 6.98 min Scan# 320
Delta R.T. -0.02 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 84 Resp: 6652

Ion	Ratio	Lower	Upper
84	100		
49	141.3	103.4	155.0
86	63.7	52.0	78.0

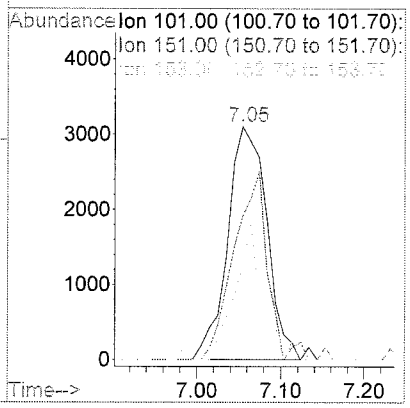


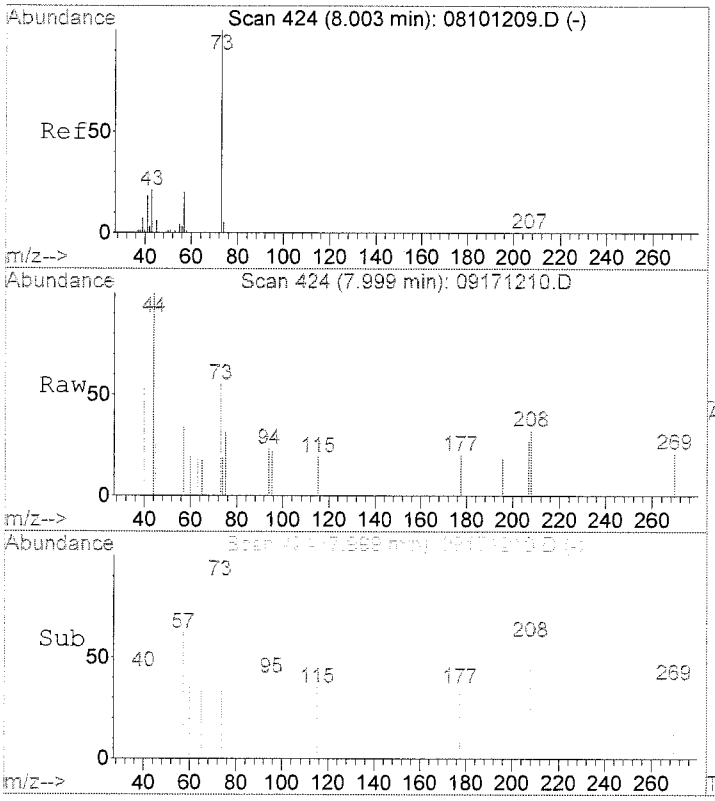


#16
Freon 113
Concen: 1.84 ug/L
RT: 7.05 min Scan# 328
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:101 Resp: 10160

Ion	Ratio	Lower	Upper
101	100		
151	68.7	59.6	89.4
153	39.5	37.9	56.9

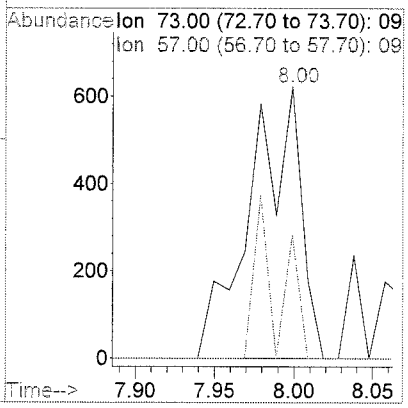


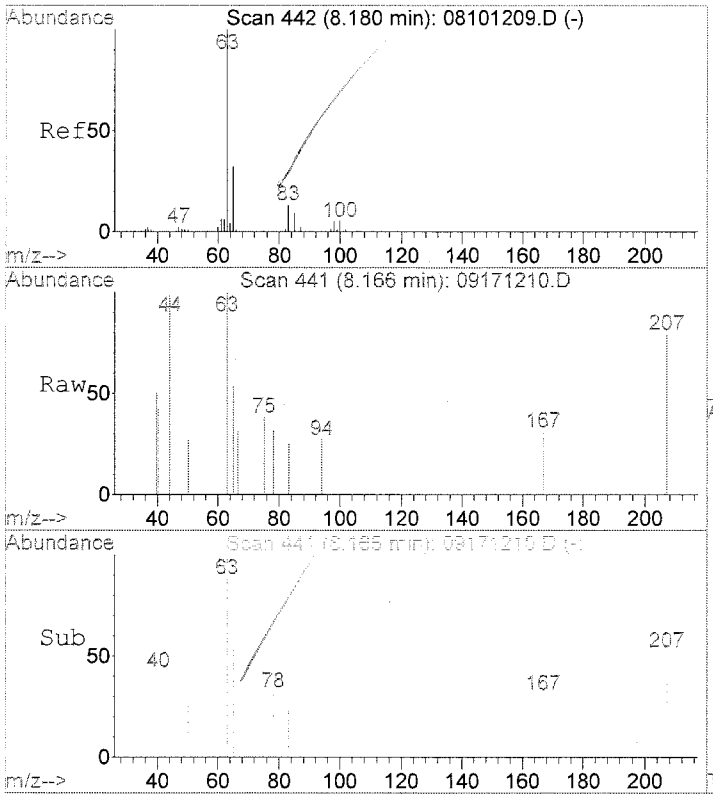


#19
MTBE
Concen: 0.15 ug/L
RT: 8.00 min Scan# 424
Delta R.T. -0.00 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 73 Resp: 1349

Ion	Ratio	Lower	Upper
73	100		
57	28.8	17.3	25.9#

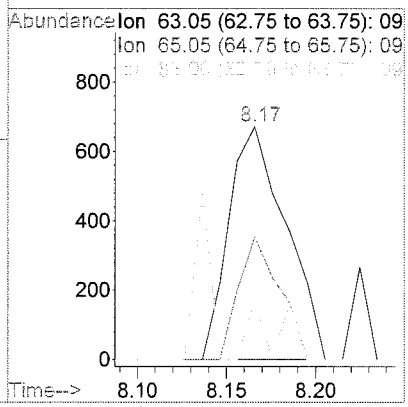


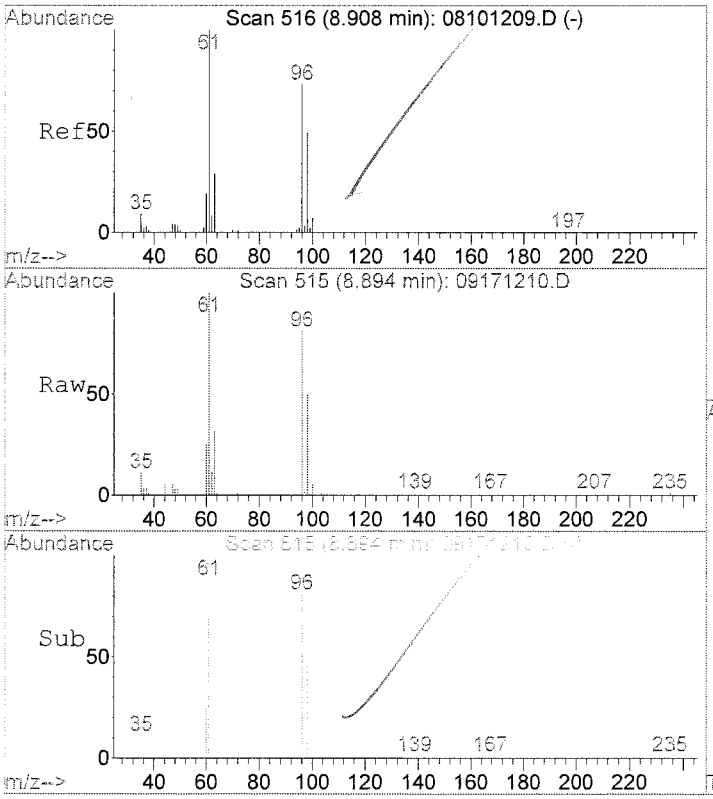


#20
1,1-Dichloroethane
Concen: 0.16 ug/L
RT: 8.17 min Scan# 441
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 63 Resp: 1496

Ion	Ratio	Lower	Upper
63	100		
65	37.6	26.0	39.0
83	13.2	10.6	16.0

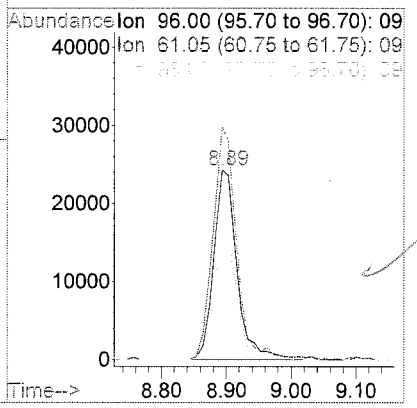


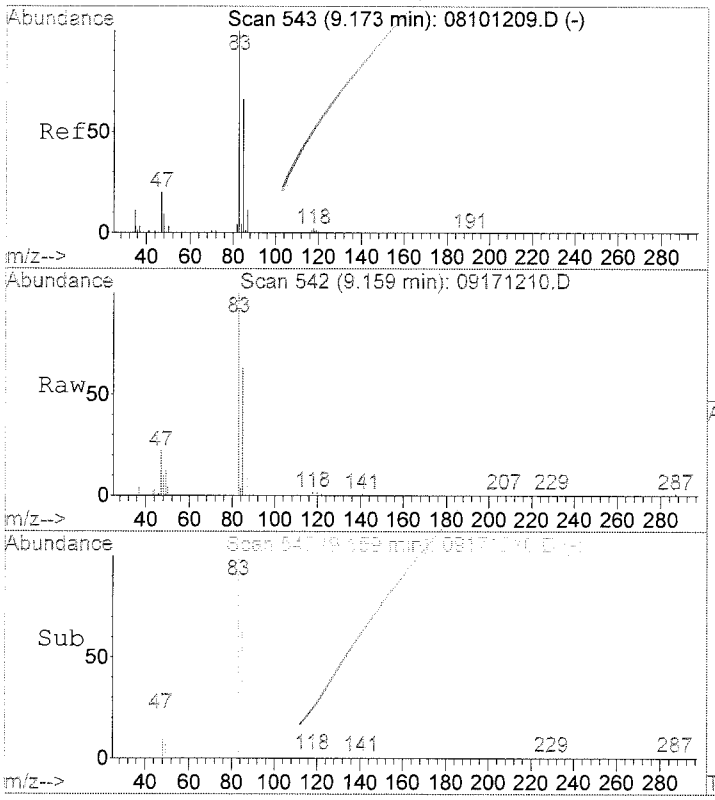


#25
cis-1,2-Dichloroethene
Concen: 10.87 ug/L
RT: 8.89 min Scan# 515
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 96 Resp: 61070

Ion	Ratio	Lower	Upper
96	100		
61	124.9	103.2	154.8
98	65.0	51.4	77.2

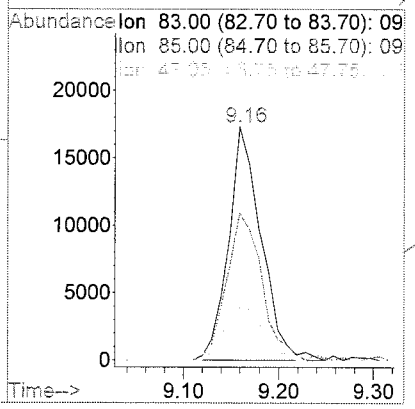


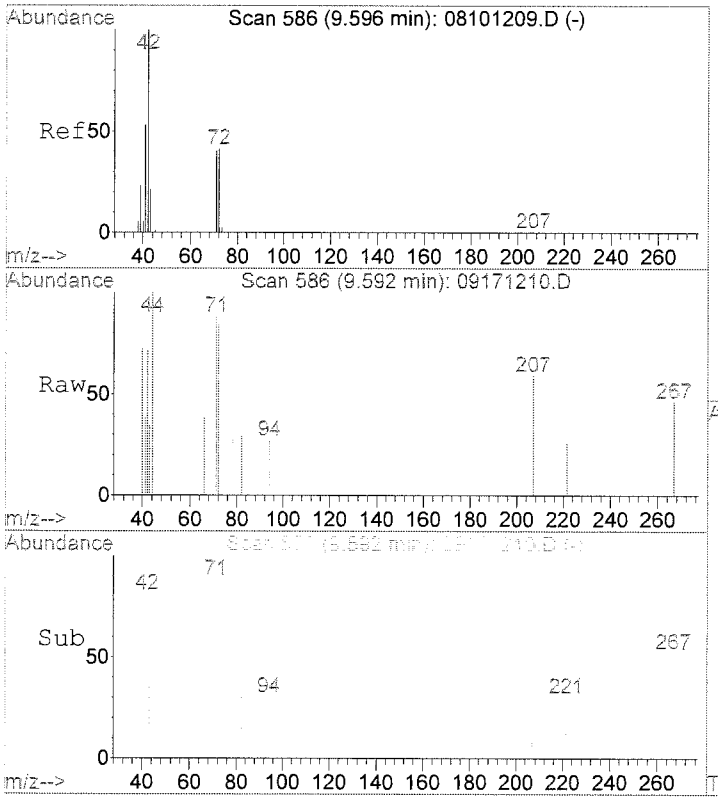


#27
Chloroform
Concen: 4.84 ug/L
RT: 9.16 min Scan# 542
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 83 Resp: 40570

Ion	Ratio	Lower	Upper
83	100		
85	68.2	51.6	77.4
47	26.7	18.9	28.3

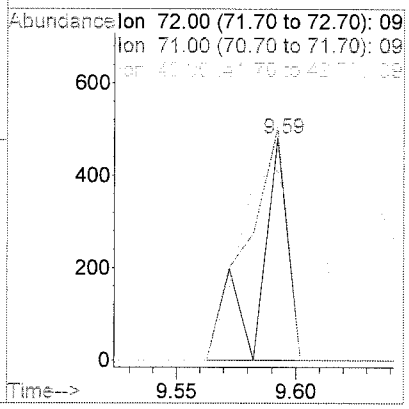


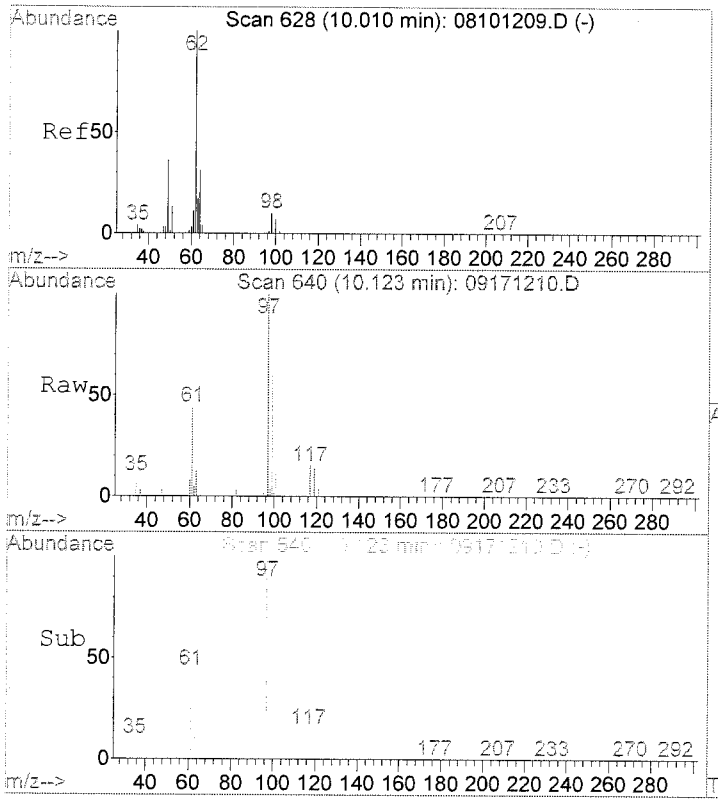


#31
Tetrahydrofuran
Concen: 1.16 ug/L
RT: 9.59 min Scan# 586
Delta R.T. -0.00 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 72 Resp: 401

Ion	Ratio	Lower	Upper
72	100		
71	144.6	79.1	118.7#
42	210.5	217.1	325.7#

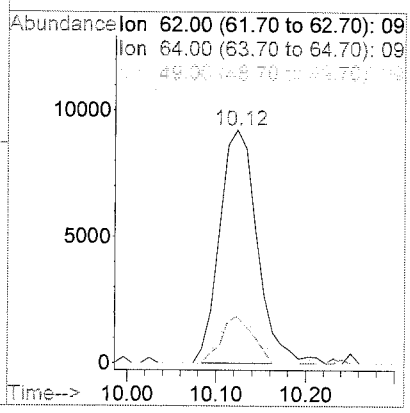


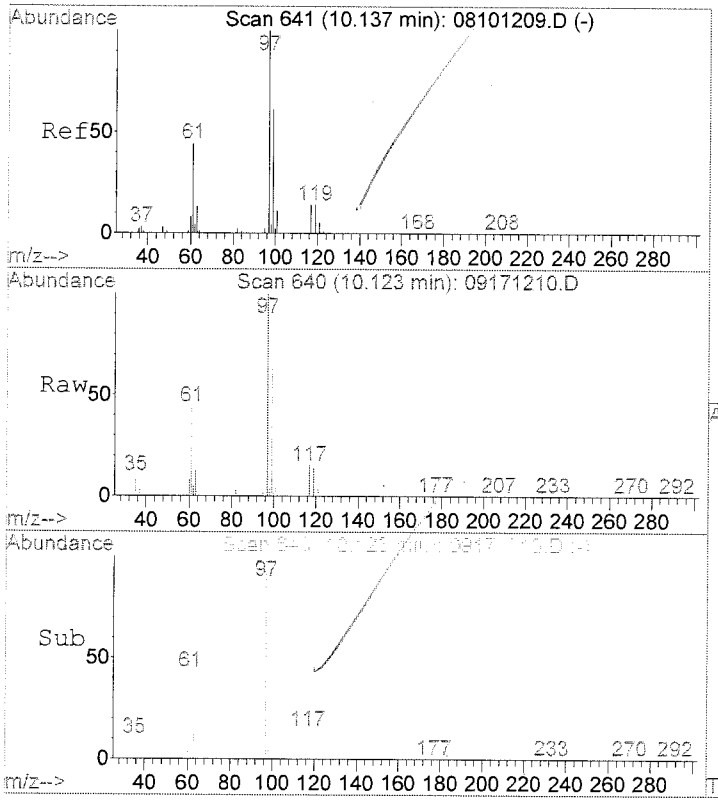


#32
1,2-Dichloroethane
Concen: 6.60 ug/L
RT: 10.12 min Scan# 640
Delta R.T. 0.11 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 62 Resp: 26704

Ion	Ratio	Lower	Upper
62	100		
64	16.7	26.4	39.6#
49	19.7	28.0	42.0#

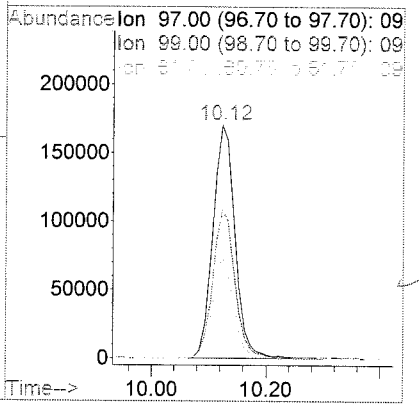


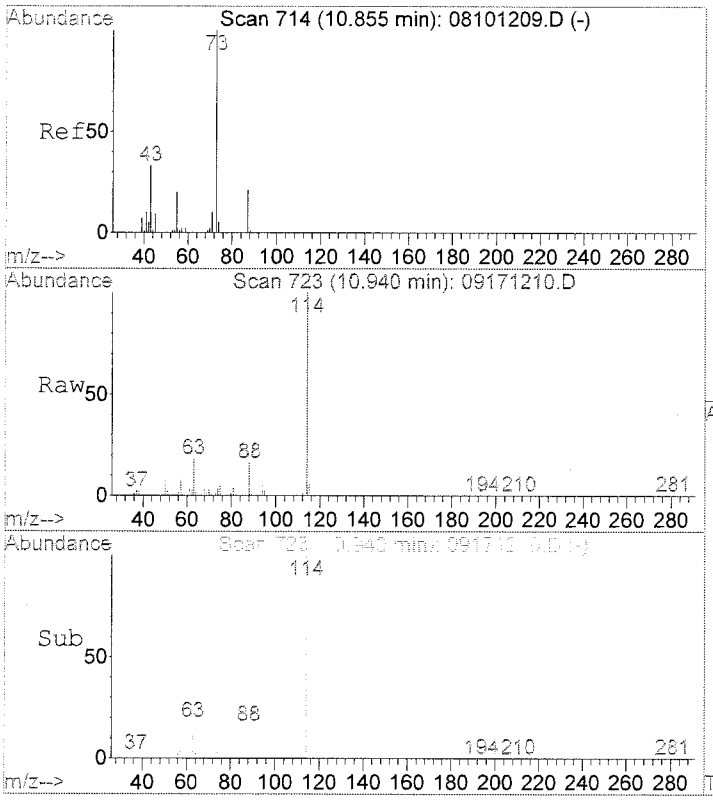


#33
1,1,1-Trichloroethane
Concen: 65.21 ug/L
RT: 10.12 min Scan# 640
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 97 Resp: 458093

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.4
61	41.3	35.5	53.3

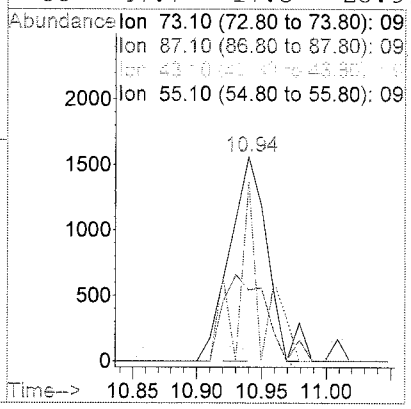


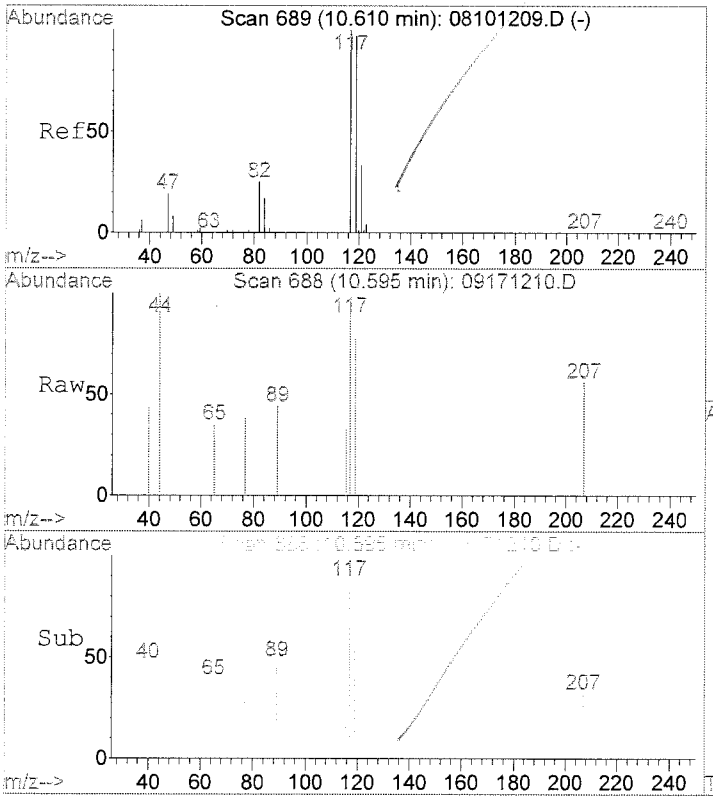


#34
(TAME) tert-Amyl methyl ether
Concen: 0.34 ug/L
RT: 10.94 min Scan# 723
Delta R.T. 0.08 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 73 Resp: 3211

Ion	Ratio	Lower	Upper
73	100		
87	53.9	16.4	24.6#
43	3.6	27.0	40.4#
55	47.7	17.3	25.9#

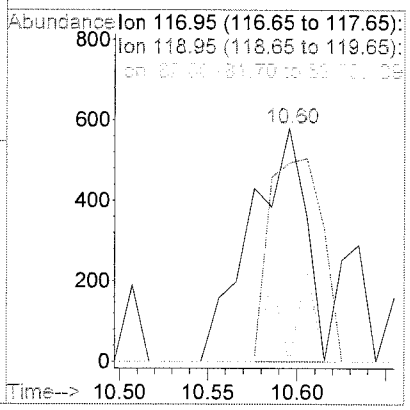


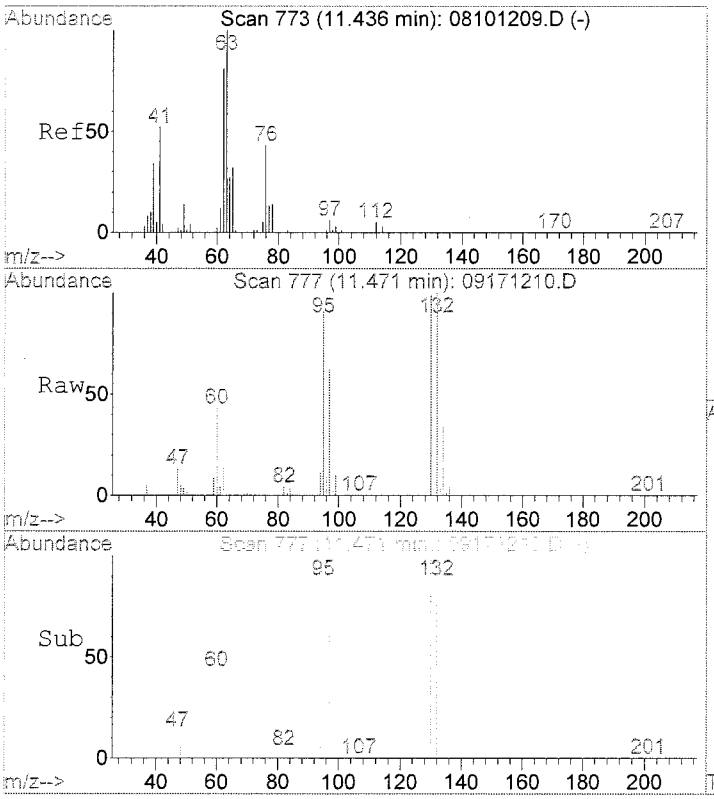


#37
Carbon Tetrachloride
Concen: 0.21 ug/L
RT: 10.60 min Scan# 688
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:117 Resp: 1245

Ion	Ratio	Lower	Upper
117	100		
119	84.5	77.9	116.9
82	20.6	19.6	29.4

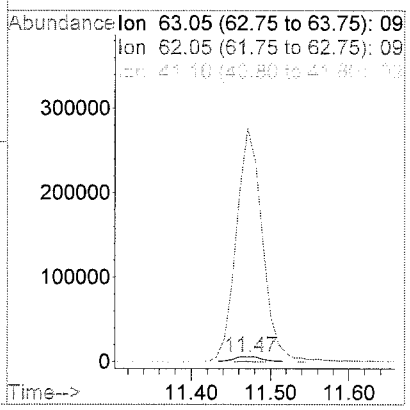


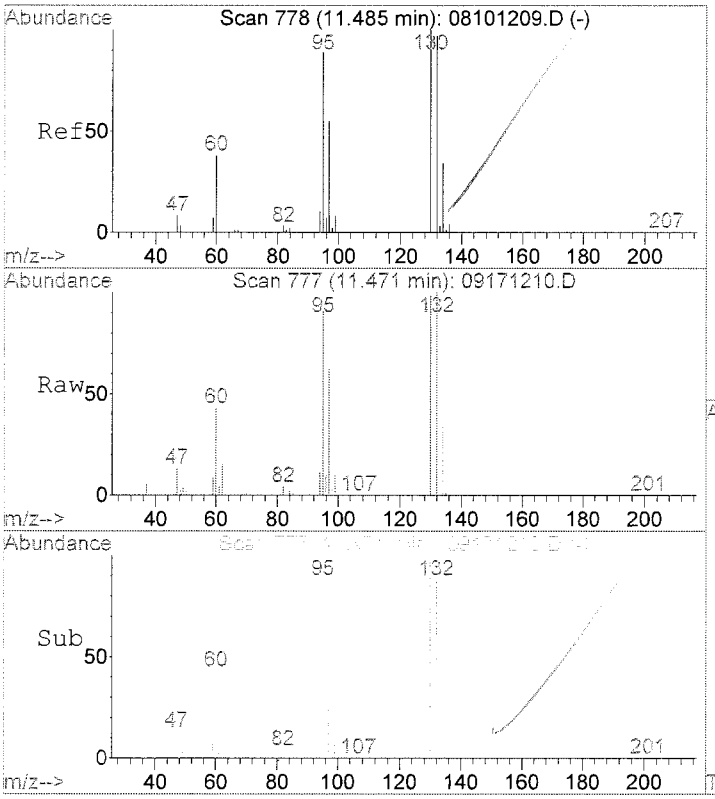


#40
1,2-Dichloropropane
Concen: 3.52 ug/L
RT: 11.47 min Scan# 777
Delta R.T. 0.04 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 63 Resp: 15474

Ion	Ratio	Lower	Upper
63	100		
62	4147.5	73.4	110.0#
41	12.3	37.4	56.2#

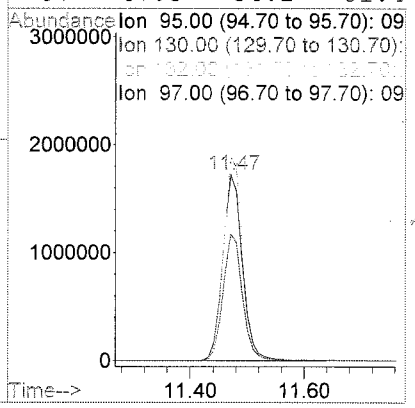


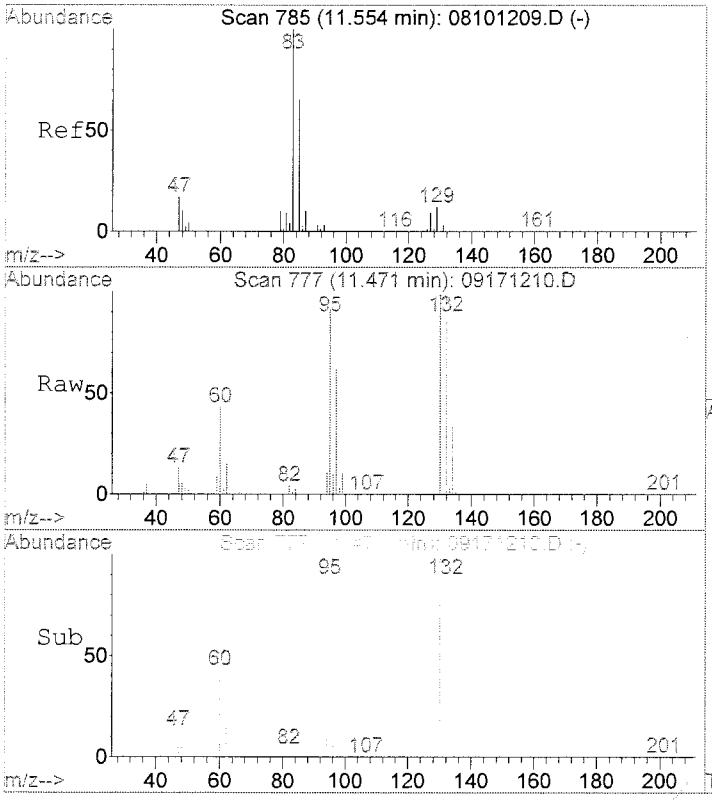


#41
Trichloroethene
Concen: 808.66 ug/L
RT: 11.47 min Scan# 777
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 95 Resp: 4184139

Ion	Ratio	Lower	Upper
95	100		
130	109.8	87.3	130.9
132	110.5	84.2	126.4
97	67.5	54.2	81.4

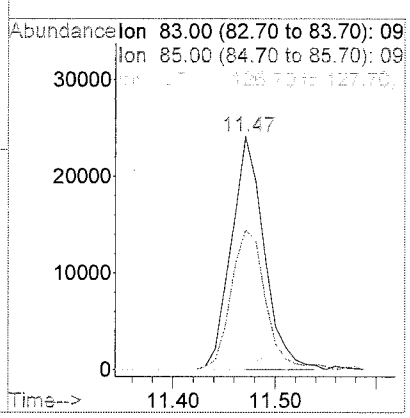


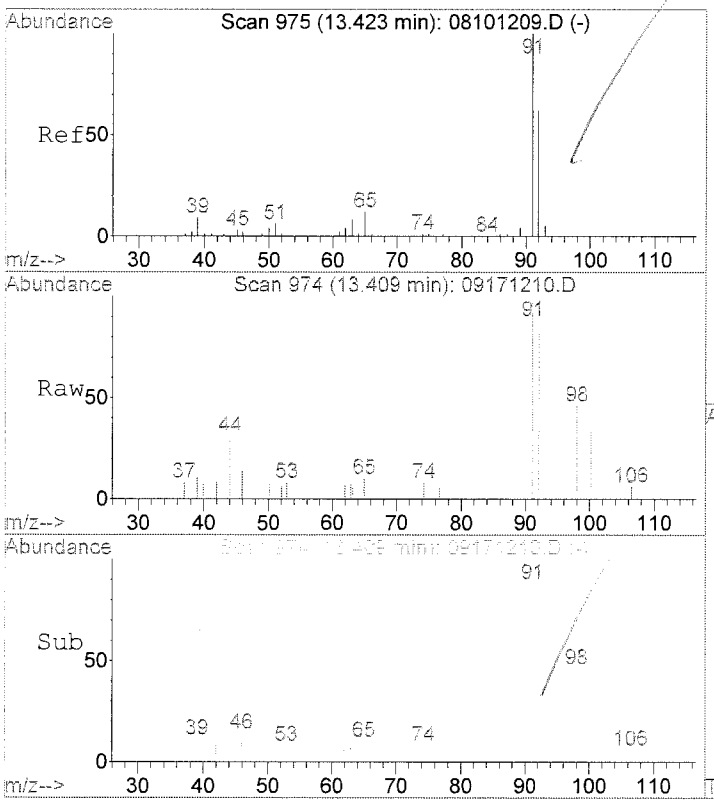


#42
Bromodichloromethane
Concen: 10.65 µg/L
RT: 11.47 min Scan# 777
Delta R.T. -0.08 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 83 Resp: 53907

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.5	78.7
127	2.8	7.0	10.6#

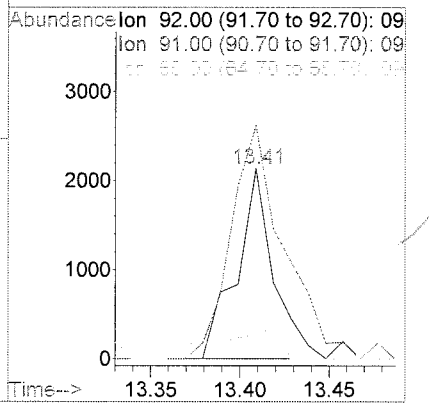


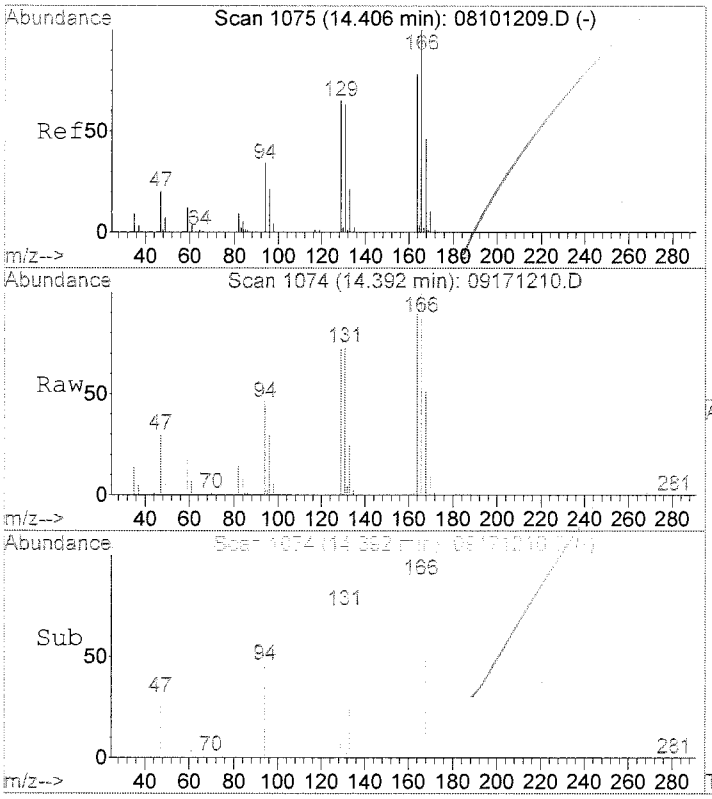


#49
Toluene
Concen: 0.29 ug/L
RT: 13.41 min Scan# 974
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 92 Resp: 3056

Ion	Ratio	Lower	Upper
92	100		
91	178.8	134.1	201.1
65	26.4	15.8	23.8#

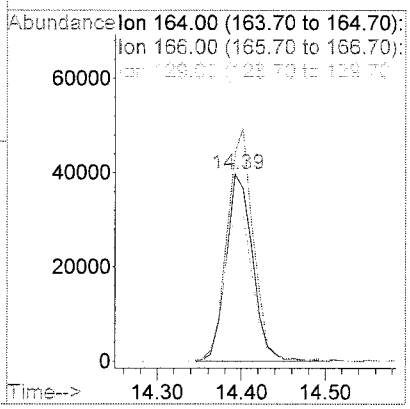


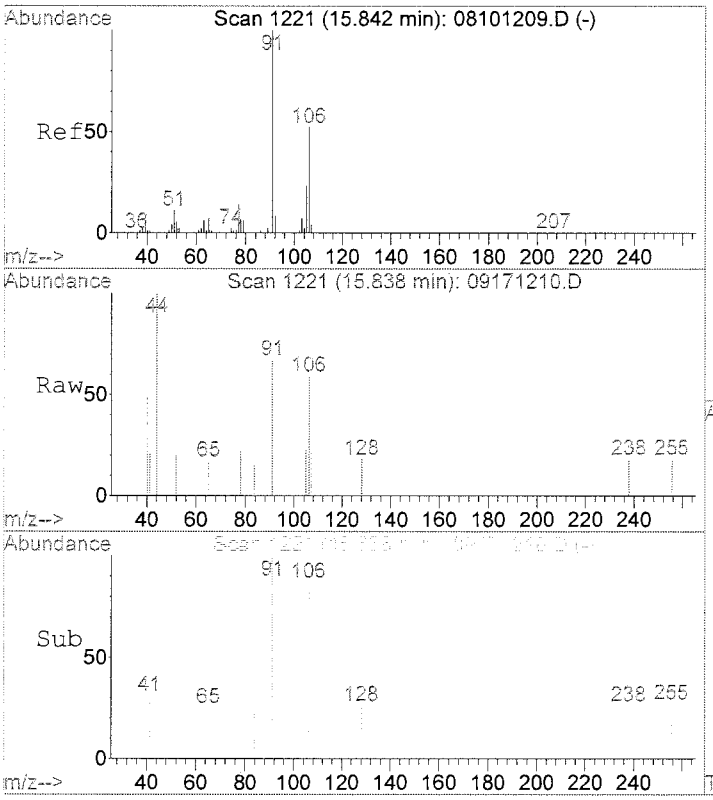


#55
Tetrachloroethene
Concen: 18.41 ug/L
RT: 14.39 min Scan# 1074
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:164 Resp: 87930

Ion	Ratio	Lower	Upper
164	100		
166	122.6	102.1	153.1
129	86.6	66.5	99.7

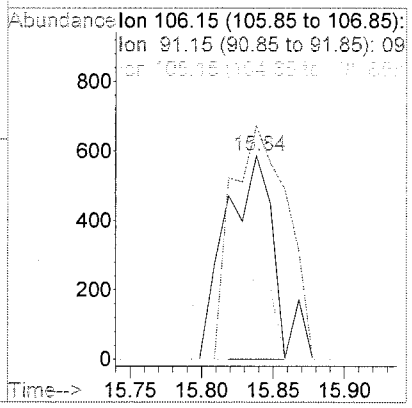


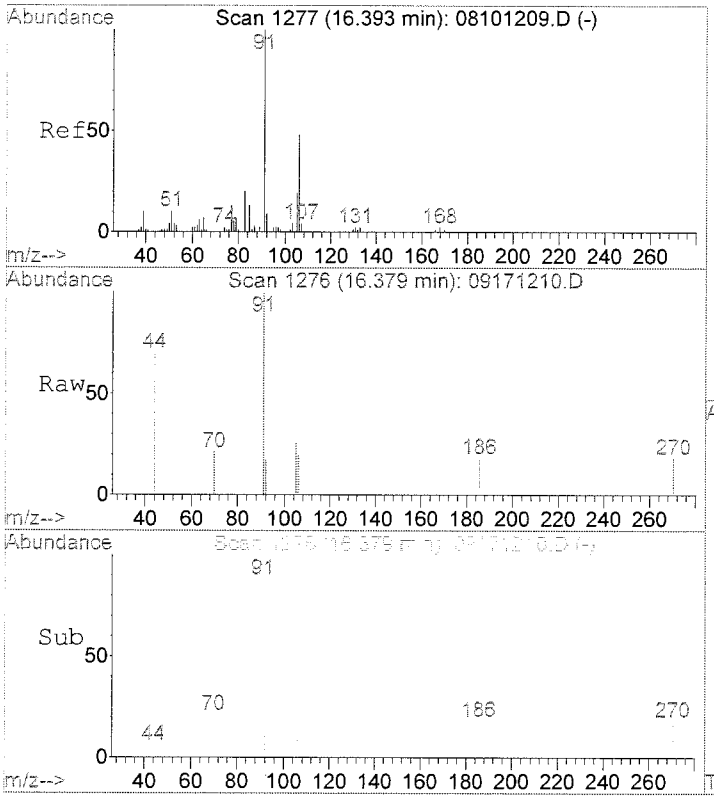


#59
m,p-Xylenes
Concen: 0.19 ug/L
RT: 15.84 min Scan# 1221
Delta R.T. -0.00 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:106 Resp: 1389

Ion	Ratio	Lower	Upper
106	100		
91	130.5	159.2	238.8#
105	27.4	36.7	55.1#

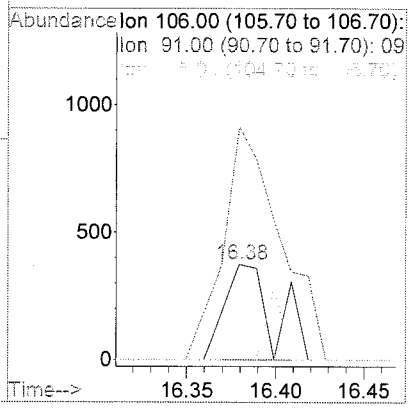


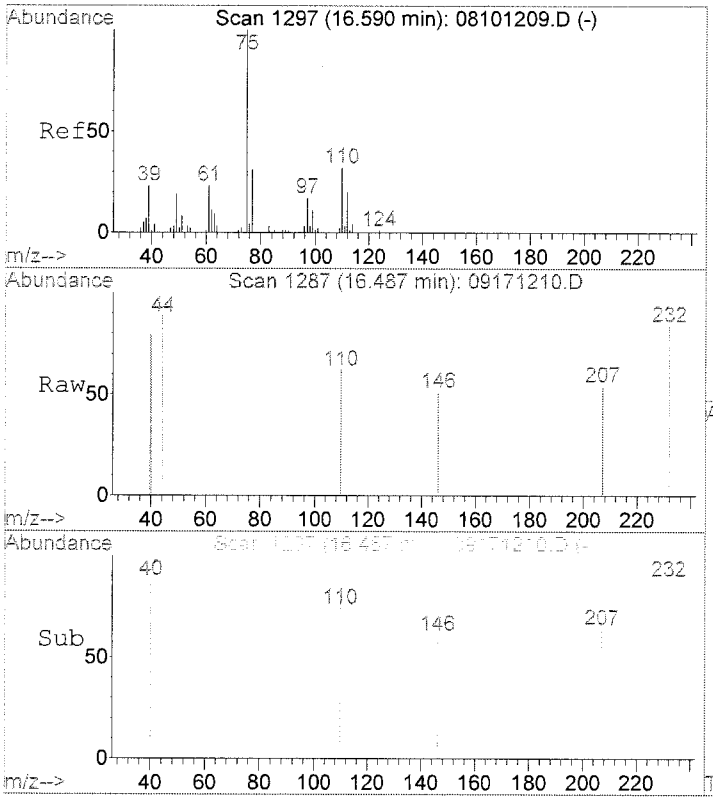


#61
o-Xylene
Concen: 0.11 ug/L
RT: 16.38 min Scan# 1276
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:106 Resp: 722

Ion	Ratio	Lower	Upper
106	100		
91	283.8	168.6	252.8#
105	19.8	32.6	48.8#

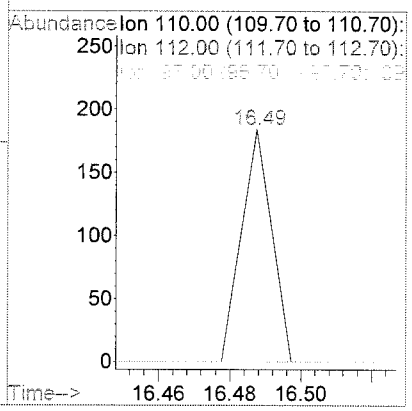


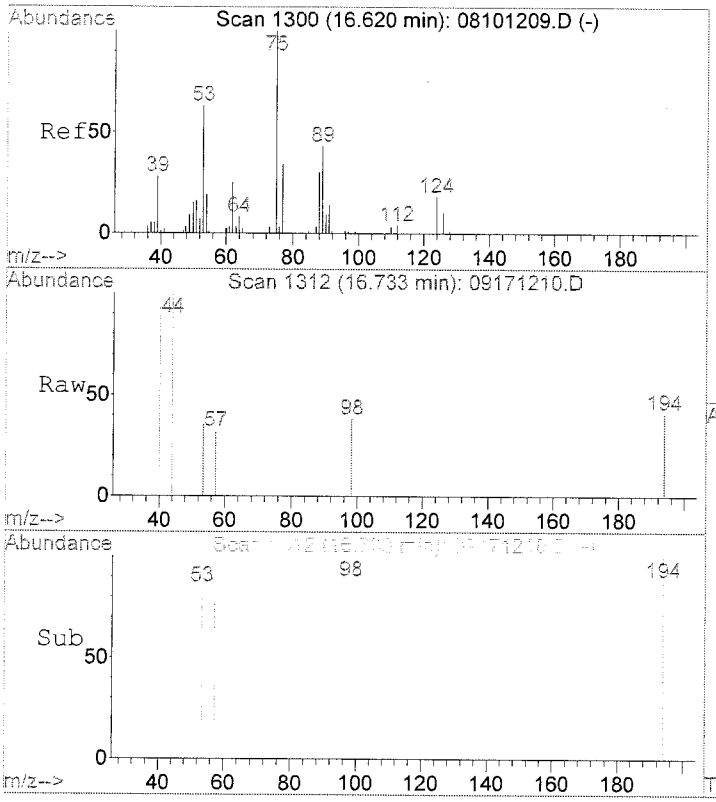


#66
1,2,3-Trichloropropane
Concen: 0.17 ug/L
RT: 16.49 min Scan# 1287
Delta R.T. -0.10 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:110 Resp: 109

Ion	Ratio	Lower	Upper
110	100		
112	90.8	49.9	74.9#
97	0.0	42.2	63.2#

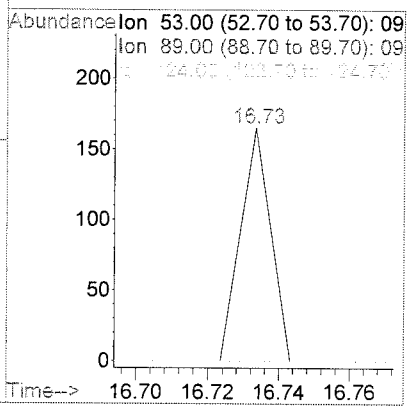


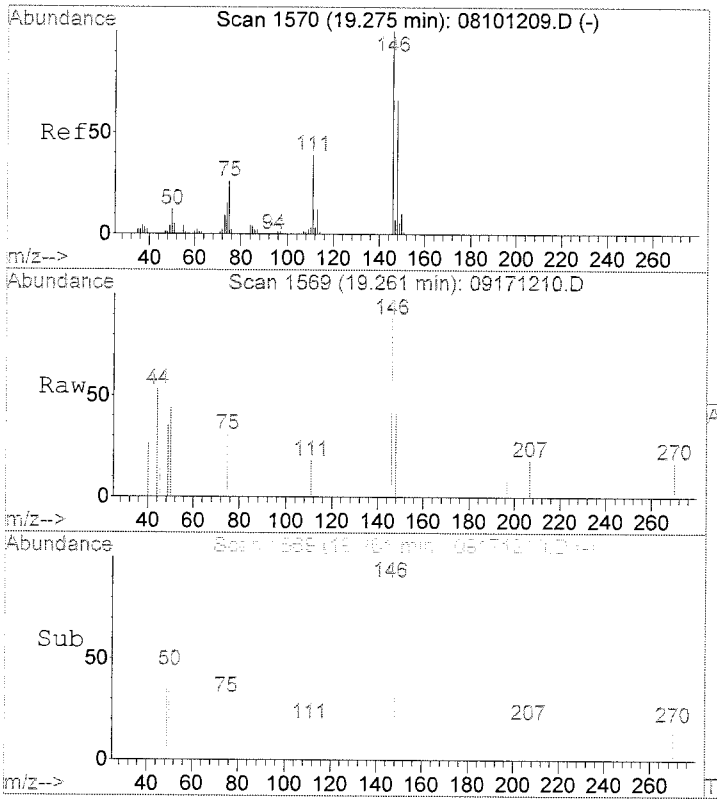


#67
trans-1,4-Dichloro-2-butene
Concen: 1.17 ug/L
RT: 16.73 min Scan# 1312
Delta R.T. 0.11 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 53 Resp: 97

Ion	Ratio	Lower	Upper
53	100		
89	114.4	50.5	75.7#
124	0.0	21.8	32.8#

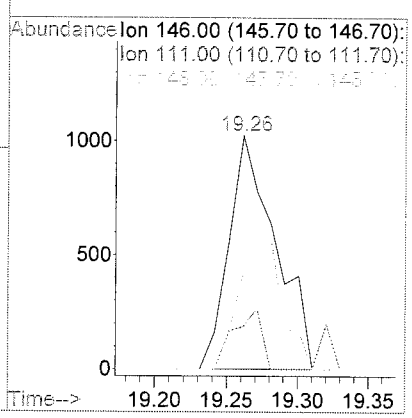


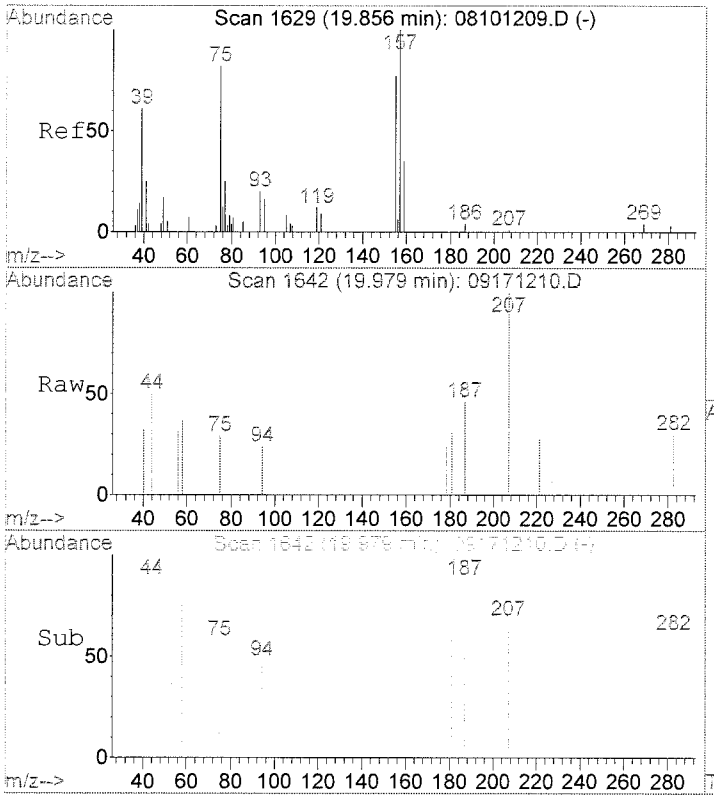


#80
1,2-Dichlorobenzene
Concen: 0.44 ug/L
RT: 19.26 min Scan# 1569
Delta R.T. -0.01 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:146 Resp: 2332

Ion	Ratio	Lower	Upper
146	100		
111	15.7	29.9	44.9#
148	51.1	51.8	77.6#

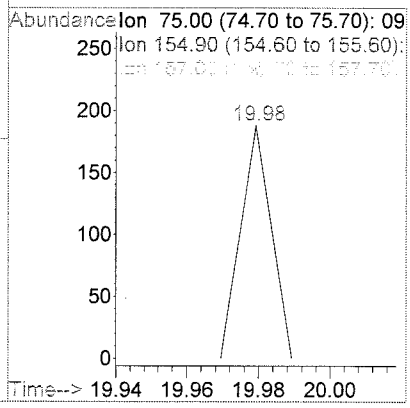


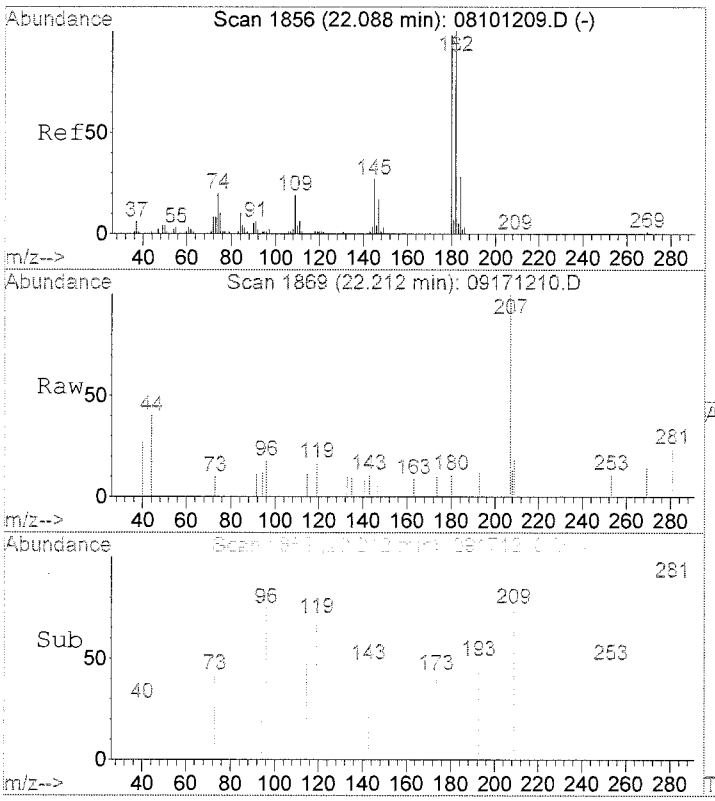


#82
1,2-Dibromo-3-chloropropane
Concen: 0.59 ug/L
RT: 19.98 min Scan# 1642
Delta R.T. 0.12 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion: 75 Resp: 111

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	0.0	110.1	165.1#

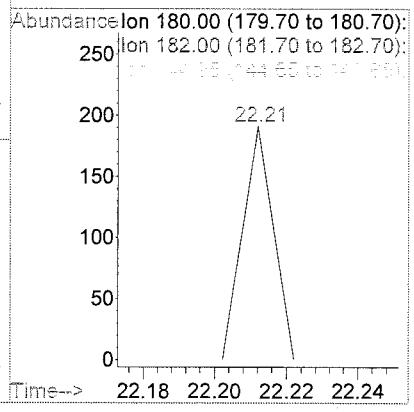




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.21 min Scan# 1869
Delta R.T. 0.12 min
Lab File: 09171210.D
Acq: 17 Sep 2012 9:14 am

Tgt Ion:180 Resp: 113

Ion	Ratio	Lower	Upper
180	100		
182	0.0	78.9	118.3#
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171211.D Vial: 11
Acq On : 17 Sep 2012 9:47 am Operator: MNM
Sample : 12I0548-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:57 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	51967	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	272691	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.94	114	382550	25.00 ug/L	-0.01
50) Chlorobenzene-d5	15.27	117	270837	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.76	152	114076	25.00 ug/L	-0.01
System Monitoring Compounds					
30) Dibromofluoromethane	9.32	113	122578	25.70 ug/L	-0.01
Spiked Amount 25.000			Recovery =	102.80%	
48) Toluene-d8	13.31	98	378689	25.07 ug/L	-0.01
Spiked Amount 25.000			Recovery =	100.28%	
62) 4-Bromofluorobenzene	16.94	95	111443	26.63 ug/L	-0.01
Spiked Amount 25.000			Recovery =	106.52%	

Target Compounds					Qvalue
2) Ethanol	5.54	45	727	25.95 ug/L	76
3) tert-Butanol (TBA)	6.81	59	51721	170.14 ug/L #	95
5) Dichlorodifluoromethane	4.10	85	299821	29.96 ug/L	99
6) Chloromethane	4.35	50	272376	27.97 ug/L	97
7) Vinyl Chloride	4.64	62	238560	26.77 ug/L	99
8) 1,3-Butadiene	4.77	54	196055	40.68 ug/L	99
9) Bromomethane	5.18	94	150072	27.58 ug/L	97
10) Chloroethane	5.37	64	112418	25.44 ug/L	97
11) Trichlorofluoromethane	6.10	101	284503	36.12 ug/L	100
12) Acetone	6.25	43	20918	18.22 ug/L #	88
13) Iodomethane	6.85	142	291496	31.66 ug/L	91
14) 1,1-Dichloroethene	6.79	96	301292	54.96 ug/L	100
15) Methylene Chloride	6.98	84	126441	25.90 ug/L	98
16) Freon 113	7.05	101	185934	32.74 ug/L	99
17) Carbon disulfide	7.28	76	486268	27.27 ug/L #	96
18) trans-1,2-Dichloroethene	7.84	96	152041	23.91 ug/L	97
19) MTBE	7.99	73	214178	23.82 ug/L	96
20) 1,1-Dichloroethane	8.17	63	235011	23.80 ug/L	98
21) Vinyl Acetate	8.32	43	154199	22.03 ug/L	98
22) n-Hexane	8.68	86	35234	22.58 ug/L	86
23) 2-Butanone (MEK)	8.72	72	6790	17.29 ug/L #	3
24) Diisopropyl Ether (DIPE)	8.73	45	362716	21.76 ug/L	98
25) cis-1,2-Dichloroethene	8.89	96	202484	34.98 ug/L	99
26) Bromochloromethane	9.10	128	54820	23.86 ug/L	92
27) Chloroform	9.16	83	250490	29.00 ug/L #	95
28) 2,2-Dichloropropane	9.27	77	184022	28.15 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	271217	22.54 ug/L	99
31) Tetrahydrofuran	9.59	72	6118	17.13 ug/L #	78
32) 1,2-Dichloroethane	10.00	62	108056	25.93 ug/L	94
33) 1,1,1-Trichloroethane	10.12	97	672246	92.93 ug/L	98
34) (TAME) tert-Amyl methyl et	10.84	73	221112	22.80 ug/L	98
36) 1,1-Dichloropropene	10.36	75	170728	20.87 ug/L	98
37) Carbon Tetrachloride	10.60	117	202743	31.61 ug/L	99
38) Benzene	10.64	78	449849	23.05 ug/L	97
39) Dibromomethane	11.37	93	51458	22.33 ug/L #	60
40) 1,2-Dichloropropane	11.42	63	110283	23.71 ug/L #	1

(#) = qualifier out of range (m) = manual integration
09171211.D 081012.M Mon Sep 17 13:58:11 2012

1,C 09/18/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171211.D Vial: 11
Acq On : 17 Sep 2012 9:47 am Operator: MNM
Sample : 12I0548-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:57 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

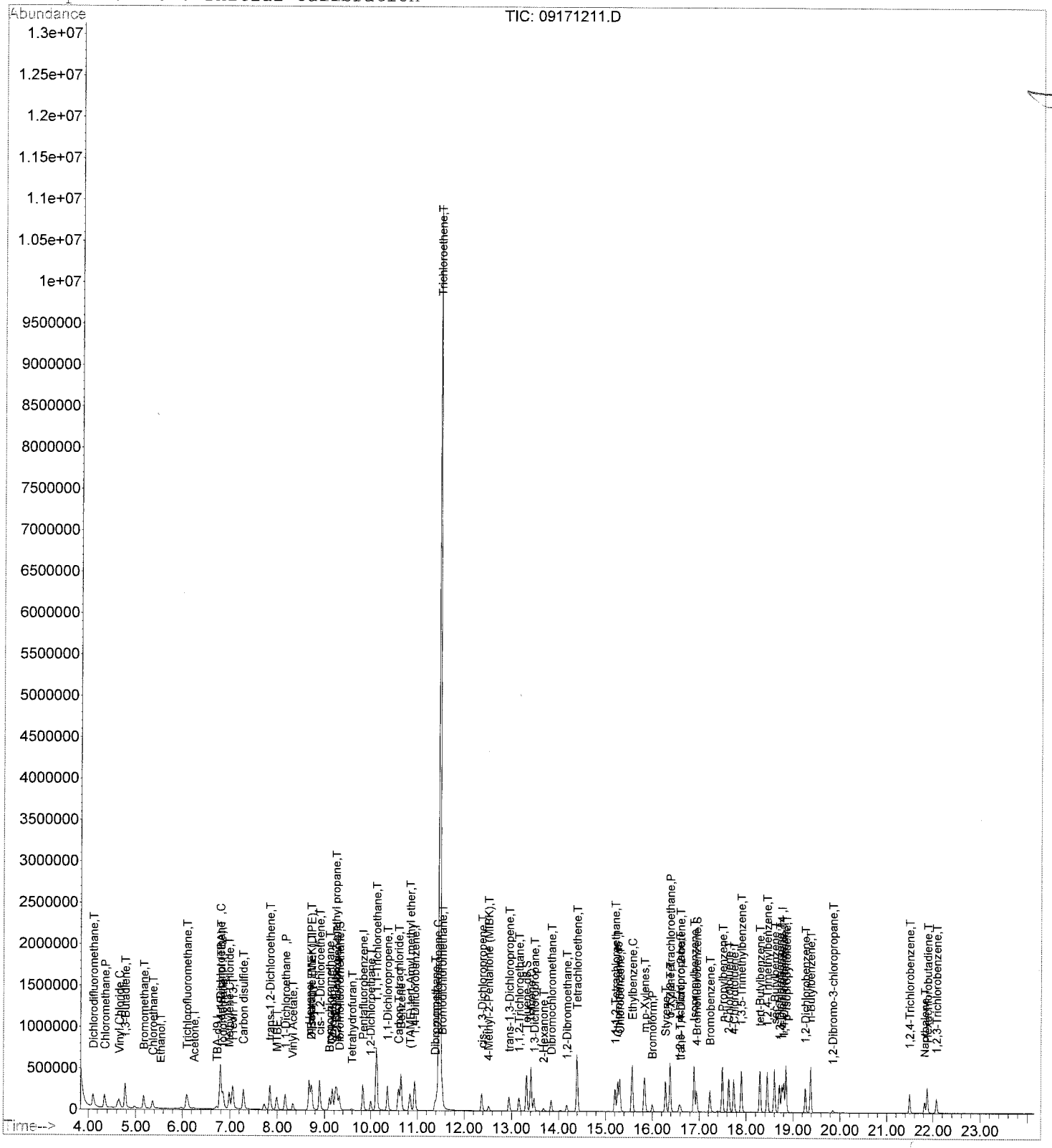
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Trichloroethene	11.47	95	4358172	796.40 ug/L		98
42)	Bromodichloromethane	11.54	83	133227	24.89 ug/L		97
44)	cis-1,3-Dichloropropene	12.38	75	148587	23.81 ug/L		95
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	52484	18.73 ug/L		98
46)	trans-1,3-Dichloropropene	12.95	75	117442	24.74 ug/L		98
47)	1,1,2-Trichloroethane	13.16	97	66023	24.40 ug/L		96
49)	Toluene	13.41	92	282080	25.41 ug/L		99
51)	1,3-Dichloropropane	13.48	76	104312	21.69 ug/L		100
52)	2-Hexanone	13.67	43	30434	15.14 ug/L	#	91
53)	Dibromochloromethane	13.84	129	91747	26.31 ug/L		98
54)	1,2-Dibromoethane	14.18	107	68314	23.38 ug/L		97
55)	Tetrachloroethene	14.39	164	205735	43.12 ug/L		98
56)	1,1,1,2-Tetrachloroethane	15.21	131	105971	27.72 ug/L		97
57)	Chlorobenzene	15.31	112	280085	25.19 ug/L		100
58)	Ethylbenzene	15.57	91	509257	26.22 ug/L		100
59)	m,p-Xylenes	15.84	106	196618	26.54 ug/L		97
60)	Styrene	16.28	104	237596	23.94 ug/L		99
61)	o-Xylene	16.38	106	180208	26.32 ug/L		98
64)	Bromoform	16.00	173	52704	26.84 ug/L		99
65)	1,1,2,2-Tetrachloroethane	16.38	83	67284	21.96 ug/L		99
66)	1,2,3-Trichloropropane	16.59	110	18397	24.91 ug/L		94
67)	trans-1,4-Dichloro-2-buten	16.61	53	12804	17.36 ug/L		94
68)	Isopropylbenzene	16.88	105	500672	29.39 ug/L		98
69)	Bromobenzene	17.24	156	105475	25.41 ug/L		96
70)	n-Propylbenzene	17.50	91	578080	26.73 ug/L		99
71)	2-Chlorotoluene	17.63	91	308589	26.39 ug/L		99
72)	4-Chlorotoluene	17.74	91	302184	26.42 ug/L		99
73)	1,3,5-Trimethylbenzene	17.89	105	372919	28.06 ug/L		97
74)	tert-Butylbenzene	18.30	119	341050	28.74 ug/L		98
75)	1,2,4-Trimethylbenzene	18.44	105	351420	27.96 ug/L		97
76)	sec-Butylbenzene	18.60	105	499616	26.02 ug/L		99
77)	1,3-Dichlorobenzene	18.71	146	199801	26.45 ug/L		96
78)	1,4-Dichlorobenzene	18.80	146	182975	24.70 ug/L		97
79)	p-Isopropyltoluene	18.85	119	409510	28.46 ug/L		100
80)	1,2-Dichlorobenzene	19.26	146	153977	25.03 ug/L		97
81)	n-Butylbenzene	19.38	91	363784	26.36 ug/L		98
82)	1,2-Dibromo-3-chloropropan	19.85	75	8255	26.73 ug/L		94
83)	1,2,4-Trichlorobenzene	21.49	180	96047	29.12 ug/L		94
84)	Napthalene	21.82	128	135789	25.73 ug/L		100
85)	Hexachlorobutadiene	21.88	225	83628	37.91 ug/L		98
86)	1,2,3-Trichlorobenzene	22.07	180	72380	27.17 ug/L		97

(#) = qualifier out of range (m) = manual integration
09171211.D 081012.M Mon Sep 17 13:58:12 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171211.D Vial: 11
Acq On : 17 Sep 2012 9:47 am Operator: MNM
Sample : 12I0548-MS1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:57 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171212.D Vial: 12
Acq On : 17 Sep 2012 10:19 am Operator: MNM
Sample : 12I0548-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:58 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	51317	200.00 ug/L	0.00
4) Pentafluorobenzene	9.82	168	275831	25.00 ug/L	-0.02
35) 1,4-Difluorobenzene	10.94	114	395628	25.00 ug/L	-0.02
50) Chlorobenzene-d5	15.26	117	272104	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	116447	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.31	113	130893	27.13 ug/L	-0.02
Spiked Amount 25.000			Recovery	= 108.52%	
48) Toluene-d8	13.32	98	381946	24.45 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.80%	
62) 4-Bromofluorobenzene	16.95	95	112966	26.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 107.48%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	28976	1047.33 ug/L #	61
3) tert-Butanol (TBA)	6.81	59	57646	192.04 ug/L	98
5) Dichlorodifluoromethane	4.10	85	299004	29.54 ug/L	99
6) Chloromethane	4.35	50	272204	27.64 ug/L	98
7) Vinyl Chloride	4.65	62	242321	26.88 ug/L	99
8) 1,3-Butadiene	4.78	54	189424	38.85 ug/L	98
9) Bromomethane	5.18	94	153079	27.81 ug/L	98
10) Chloroethane	5.37	64	122136	27.32 ug/L	98
11) Trichlorofluoromethane	6.11	101	277686	34.85 ug/L	95
12) Acetone	6.24	43	21578	18.58 ug/L	91
13) Iodomethane	6.84	142	279801	30.05 ug/L #	88
14) 1,1-Dichloroethene	6.80	96	297684	53.68 ug/L	100
15) Methylene Chloride	6.98	84	128505	26.03 ug/L	98
16) Freon 113	7.06	101	185777	32.34 ug/L	98
17) Carbon disulfide	7.29	76	516314	28.63 ug/L	98
18) trans-1,2-Dichloroethene	7.85	96	154553	24.03 ug/L	97
19) MTBE	7.99	73	229526	25.24 ug/L	98
20) 1,1-Dichloroethane	8.16	63	240027	24.03 ug/L	99
21) Vinyl Acetate	8.33	43	164690	23.26 ug/L	98
22) n-Hexane	8.68	86	35543	22.52 ug/L	83
23) 2-Butanone (MEK)	8.71	72	6900	17.37 ug/L #	1
24) Diisopropyl Ether (DIPE)	8.72	45	389162	23.08 ug/L	95
25) cis-1,2-Dichloroethene	8.90	96	210931	36.03 ug/L	99
26) Bromochloromethane	9.11	128	57834	24.89 ug/L	89
27) Chloroform	9.17	83	262913	30.09 ug/L	97
28) 2,2-Dichloropropane	9.26	77	189515	28.66 ug/L	99
29) (ETBE) 2-ethoxy-2-methyl p	9.23	59	286574	23.54 ug/L	98
31) Tetrahydrofuran	9.58	72	5921	16.39 ug/L	90
32) 1,2-Dichloroethane	10.00	62	119695	28.40 ug/L	94
33) 1,1,1-Trichloroethane	10.13	97	671727	91.81 ug/L	98
34) (TAME) tert-Amyl methyl et	10.84	73	240312	24.50 ug/L	98
36) 1,1-Dichloropropene	10.37	75	166604	19.69 ug/L	98
37) Carbon Tetrachloride	10.60	117	200326	30.20 ug/L	97
38) Benzene	10.65	78	472569	23.41 ug/L	100
39) Dibromomethane	11.38	93	56244	23.60 ug/L #	59
40) 1,2-Dichloropropane	11.42	63	118085	24.55 ug/L #	1

(#) = qualifier out of range (m) = manual integration
09171212.D 081012.M Mon Sep 17 13:58:27 2012

LC 09/18/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171212.D Vial: 12
Acq On : 17 Sep 2012 10:19 am Operator: MNM
Sample : 12I0548-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:58 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

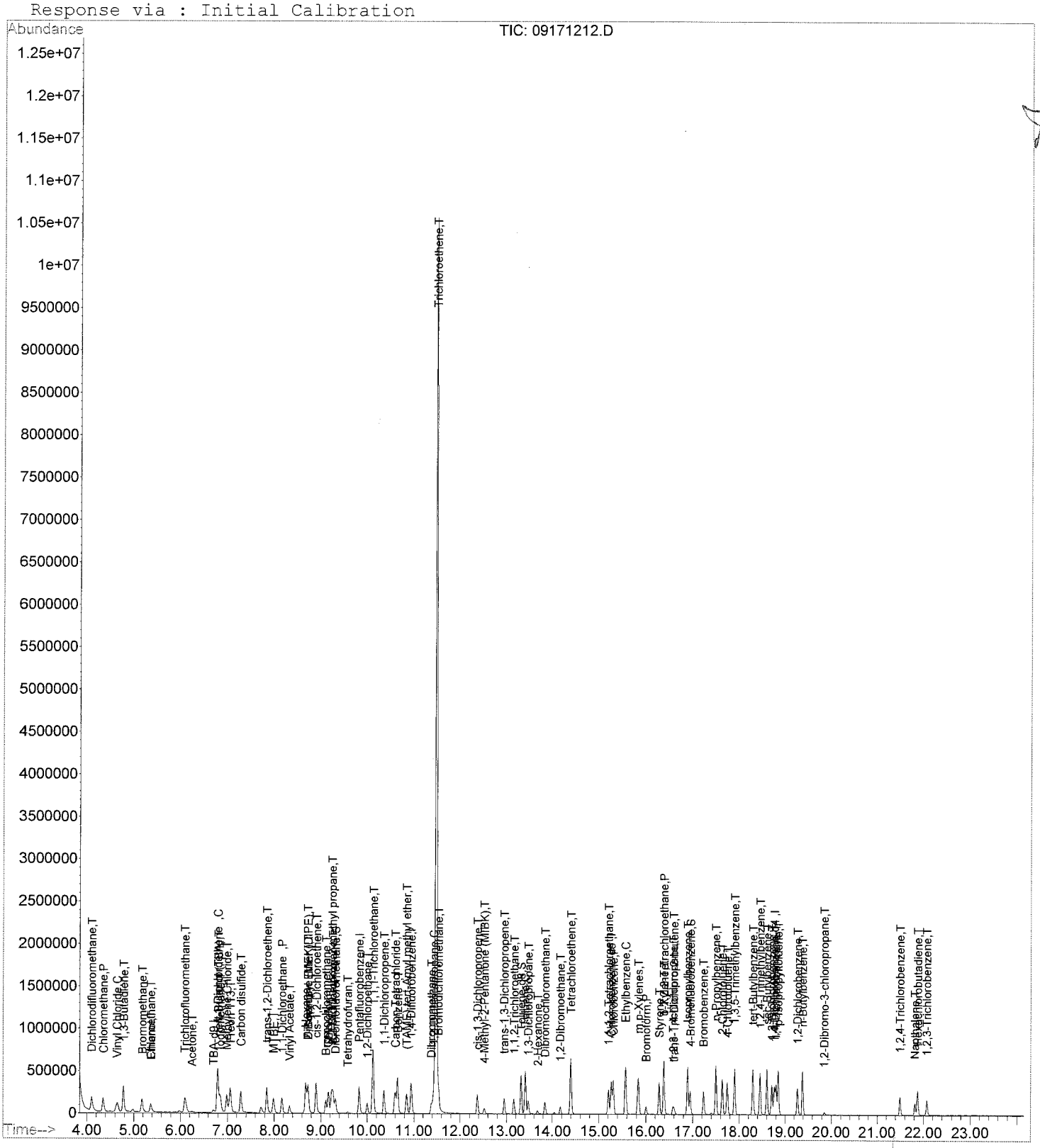
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Trichloroethene	11.48	95	4281181	756.47 ug/L	98
42)	Bromodichloromethane	11.54	83	140601	25.40 ug/L	98
44)	cis-1,3-Dichloropropene	12.37	75	157549	24.41 ug/L	95
45)	4-Methyl-2-Pentanone (MIBK	12.52	43	58143	20.06 ug/L	100
46)	trans-1,3-Dichloropropene	12.94	75	125378	25.54 ug/L	95
47)	1,1,2-Trichloroethane	13.16	97	70365	25.14 ug/L	96
49)	Toluene	13.41	92	289714	25.23 ug/L	97
51)	1,3-Dichloropropane	13.47	76	110345	22.84 ug/L	96
52)	2-Hexanone	13.68	43	35554	17.60 ug/L	90
53)	Dibromochloromethane	13.84	129	98608	28.15 ug/L	96
54)	1,2-Dibromoethane	14.17	107	76970	26.22 ug/L	100
55)	Tetrachloroethene	14.40	164	201282	41.99 ug/L	98
56)	1,1,1,2-Tetrachloroethane	15.21	131	107338	27.95 ug/L	99
57)	Chlorobenzene	15.31	112	295230	26.43 ug/L	100
58)	Ethylbenzene	15.57	91	519198	26.61 ug/L	99
59)	m,p-Xylenes	15.83	106	200460	26.93 ug/L	98
60)	Styrene	16.29	104	239481	24.02 ug/L	98
61)	o-Xylene	16.39	106	184268	26.78 ug/L	99
64)	Bromoform	16.00	173	53612	26.75 ug/L	100
65)	1,1,2,2-Tetrachloroethane	16.39	83	72031	23.03 ug/L	99
66)	1,2,3-Trichloropropane	16.58	110	19584	25.98 ug/L	93
67)	trans-1,4-Dichloro-2-buten	16.60	53	14657	19.34 ug/L	94
68)	Isopropylbenzene	16.89	105	499327	28.71 ug/L	100
69)	Bromobenzene	17.23	156	110464	26.07 ug/L	99
70)	n-Propylbenzene	17.50	91	582811	26.40 ug/L	98
71)	2-Chlorotoluene	17.63	91	309924	25.96 ug/L	99
72)	4-Chlorotoluene	17.74	91	310783	26.62 ug/L	97
73)	1,3,5-Trimethylbenzene	17.90	105	384269	28.33 ug/L	98
74)	tert-Butylbenzene	18.29	119	343876	28.39 ug/L	99
75)	1,2,4-Trimethylbenzene	18.45	105	353890	27.58 ug/L	99
76)	sec-Butylbenzene	18.60	105	510391	26.04 ug/L	99
77)	1,3-Dichlorobenzene	18.71	146	196443	25.47 ug/L	96
78)	1,4-Dichlorobenzene	18.80	146	188816	24.97 ug/L	98
79)	p-Isopropyltoluene	18.84	119	400909	27.29 ug/L	96
80)	1,2-Dichlorobenzene	19.27	146	167315	26.64 ug/L	99
81)	n-Butylbenzene	19.39	91	356837	25.33 ug/L	99
82)	1,2-Dibromo-3-chloropropan	19.85	75	8723	27.70 ug/L	99
83)	1,2,4-Trichlorobenzene	21.50	180	93953	27.91 ug/L	95
84)	Napthalene	21.82	128	140978	26.17 ug/L	99
85)	Hexachlorobutadiene	21.87	225	79524	35.08 ug/L	95
86)	1,2,3-Trichlorobenzene	22.07	180	76465	28.17 ug/L	97

(#) = qualifier out of range (m) = manual integration
09171212.D 081012.M Mon Sep 17 13:58:28 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171212.D Vial: 12
Acq On : 17 Sep 2012 10:19 am Operator: MNM
Sample : 12I0548-MSD1 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 13:58 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171218.D Vial: 18
Acq On : 17 Sep 2012 1:35 pm Operator: MNM
Sample : PVI0867-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 14:02 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.72	65	55546	200.00 ug/L	0.00
4) Pentafluorobenzene	9.83	168	263437	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.95	114	368117	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	265141	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	96421	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	126026	27.35 ug/L	0.00
Spiked Amount 25.000			Recovery	= 109.40%	
48) Toluene-d8	13.32	98	353676	24.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.32%	
62) 4-Bromofluorobenzene	16.95	95	98905	24.14 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.56%	
Target Compounds					Qvalue
2) Ethanol	5.39	45	16141	538.99 ug/L #	51
3) tert-Butanol (TBA)	6.84	59	111	0.34 ug/L #	1
9) Bromomethane	5.10	94	1249	0.24 ug/L #	12
12) Acetone	6.24	43	2057	1.85 ug/L #	84
15) Methylene Chloride	6.98	84	1164	0.25 ug/L #	82
23) 2-Butanone (MEK)	8.81	72	109	0.29 ug/L #	1
25) cis-1,2-Dichloroethene	8.89	96	990	0.18 ug/L #	75
27) Chloroform	9.17	83	1920	0.23 ug/L #WSM	55
32) 1,2-Dichloroethane	9.83	62	885	0.22 ug/L #WSMT	46
38) Benzene	10.66	78	1885	0.10 ug/L #	63
41) Trichloroethene	11.48	95	1055	0.20 ug/L #	76
47) 1,1,2-Trichloroethane	13.30	97	430	0.17 ug/L #	1
51) 1,3-Dichloropropane	13.32	76	4118	0.87 ug/L WRT	91
55) Tetrachloroethene	14.40	164	611	0.13 ug/L #WSMT	47
67) trans-1,4-Dichloro-2-buten	16.53	53	89	1.16 ug/L #	27

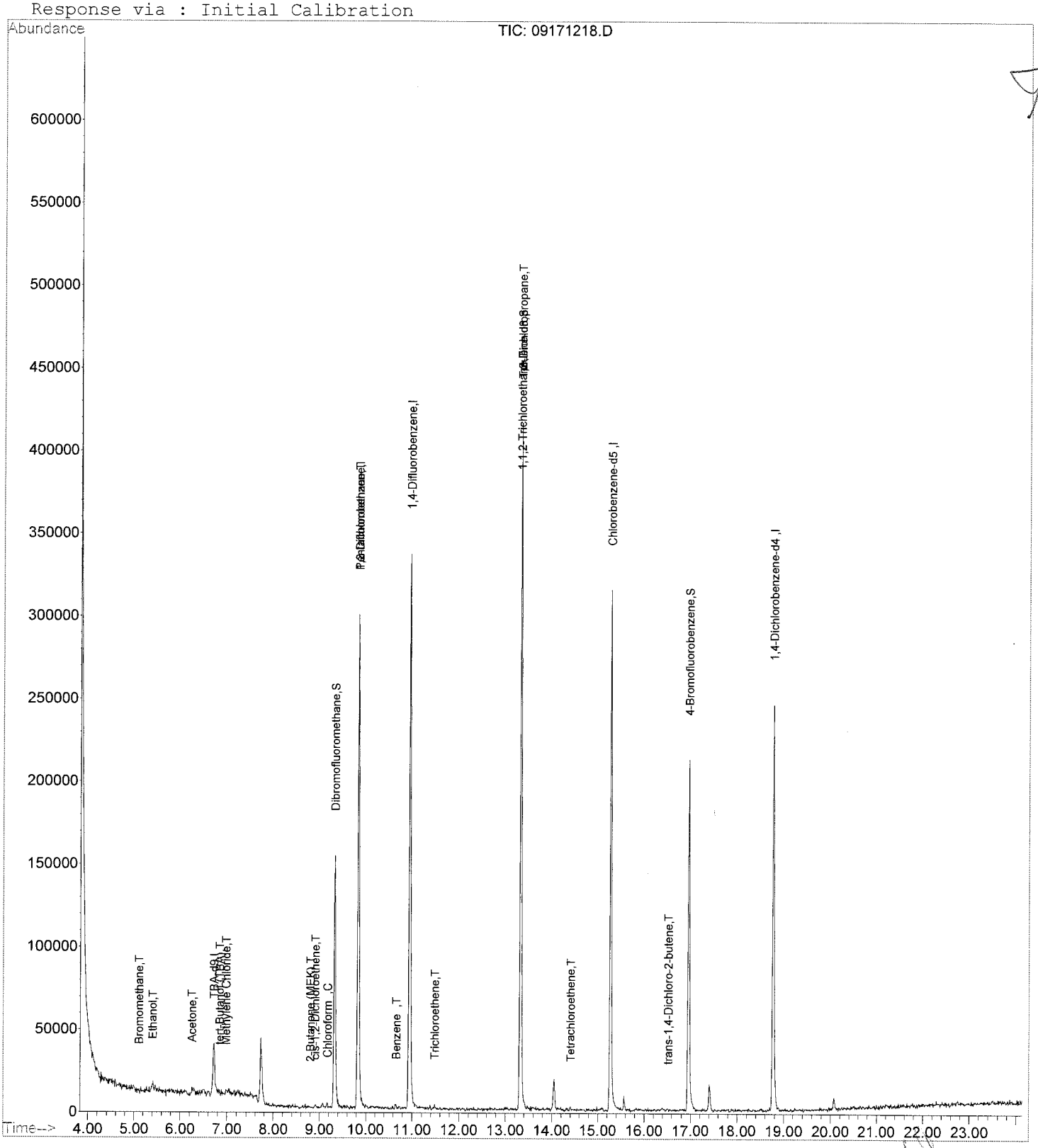
LC 09/18/12

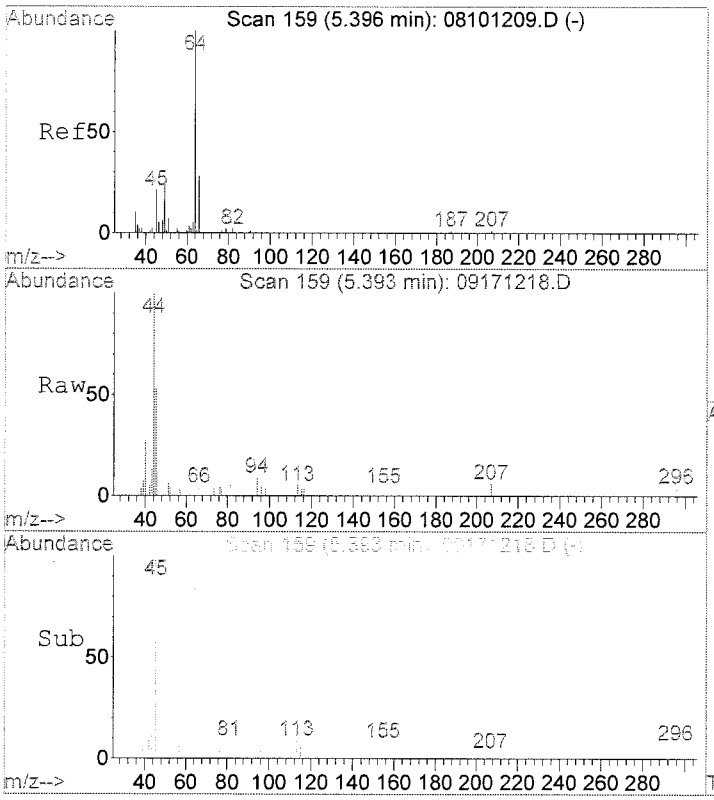
(#) = qualifier out of range (m) = manual integration
09171218.D 081012.M Mon Sep 17 14:02:51 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171218.D Vial: 18
Acq On : 17 Sep 2012 1:35 pm Operator: MNM
Sample : PVI0867-02 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 17 14:02 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

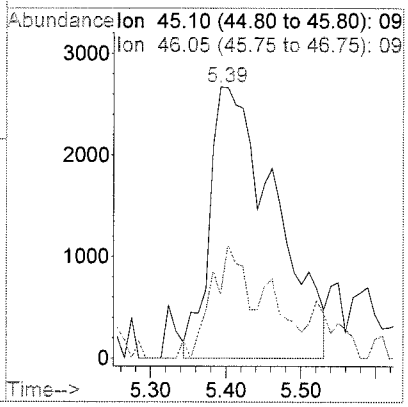


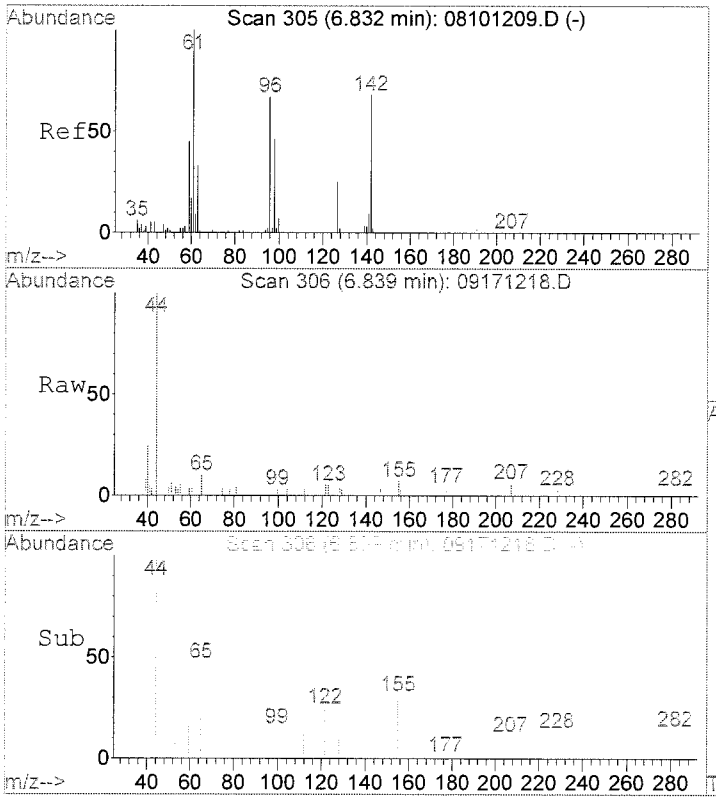


#2
Ethanol
Concen: 538.99 ug/L
RT: 5.39 min Scan# 159
Delta R.T. -0.00 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 45 Resp: 16141

Ion	Ratio	Lower	Upper
45	100		
46	22.9	39.9	79.9#

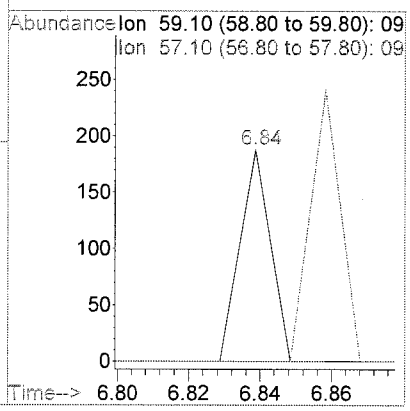


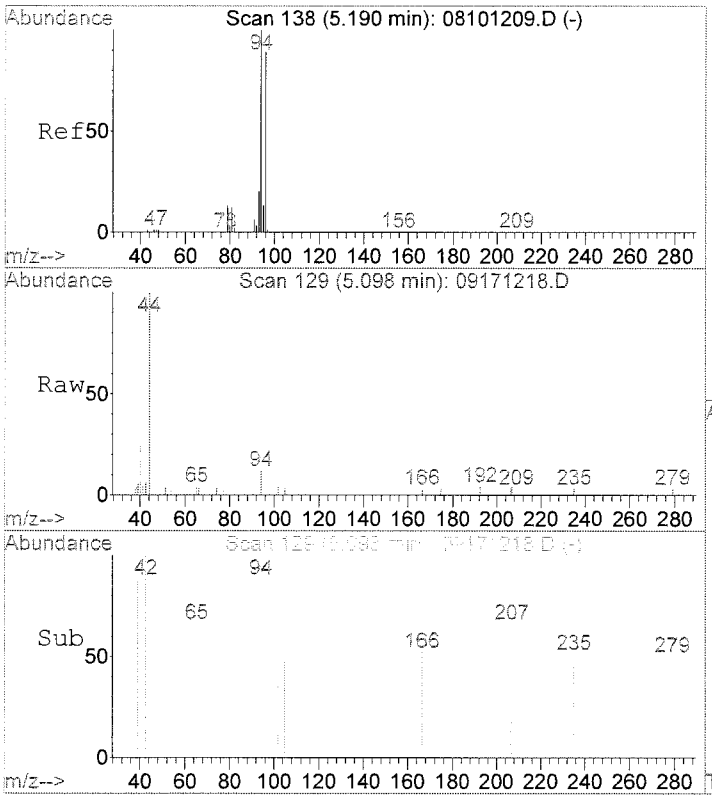


#3
tert-Butanol (TBA)
Concen: 0.34 ug/L
RT: 6.84 min Scan# 306
Delta R.T. 0.01 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 59 Resp: 111

Ion	Ratio	Lower	Upper
59	100		
57	127.9	6.4	9.6#

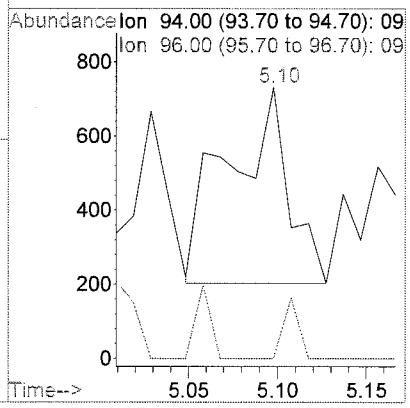


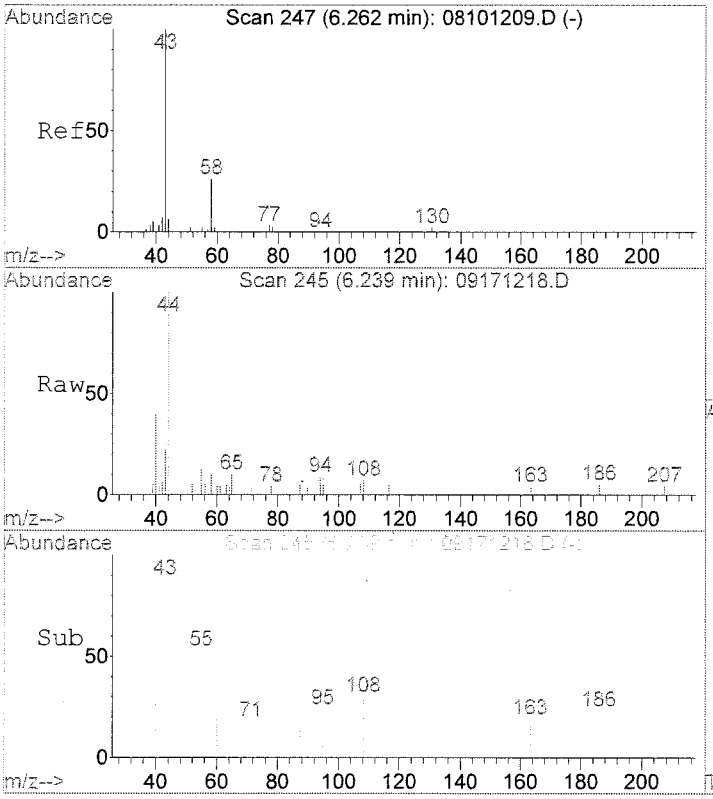


#9
Bromomethane
Concen: 0.24 ug/L
RT: 5.10 min Scan# 129
Delta R.T. -0.09 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 94 Resp: 1249

Ion	Ratio	Lower	Upper
94	100		
96	9.3	75.8	113.6#

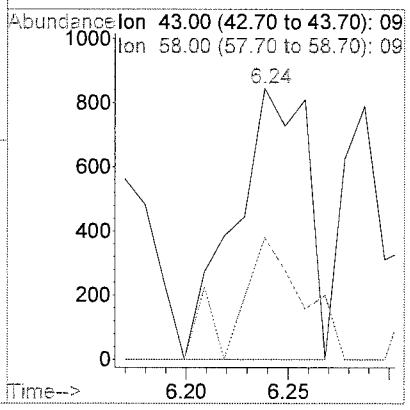


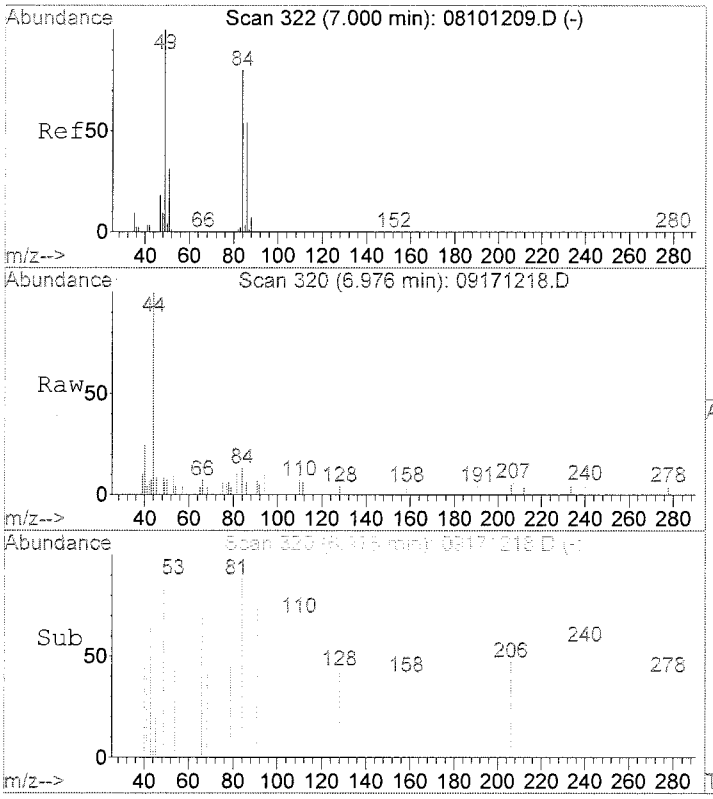


#12
Acetone
Concen: 1.85 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 43 Resp: 2057

Ion	Ratio	Lower	Upper
43	100		
58	41.1	25.9	38.9#

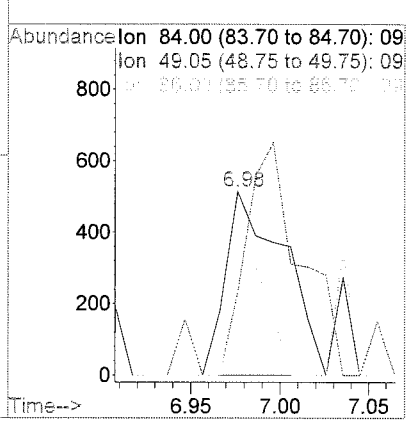


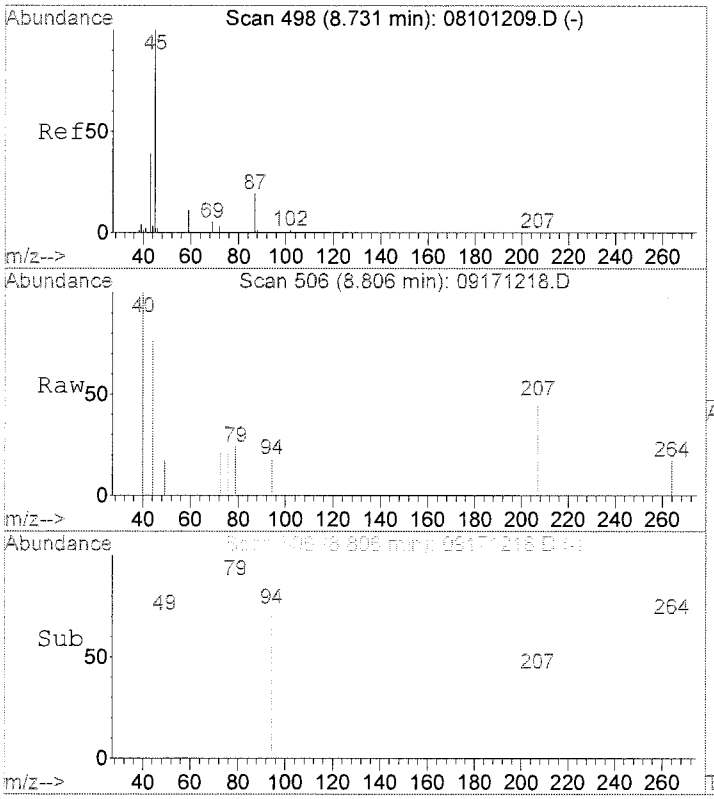


#15
Methylene Chloride
Concen: 0.25 ug/L
RT: 6.98 min Scan# 320
Delta R.T. -0.02 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 84 Resp: 1164

Ion	Ratio	Lower	Upper
84	100		
49	118.3	103.4	155.0
86	36.5	52.0	78.0#

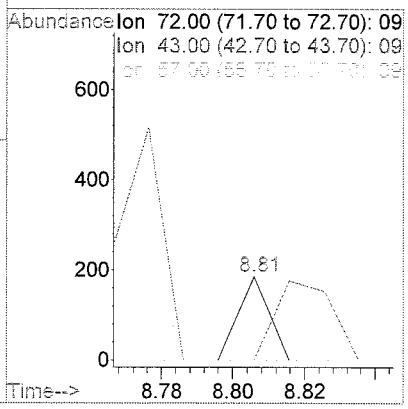


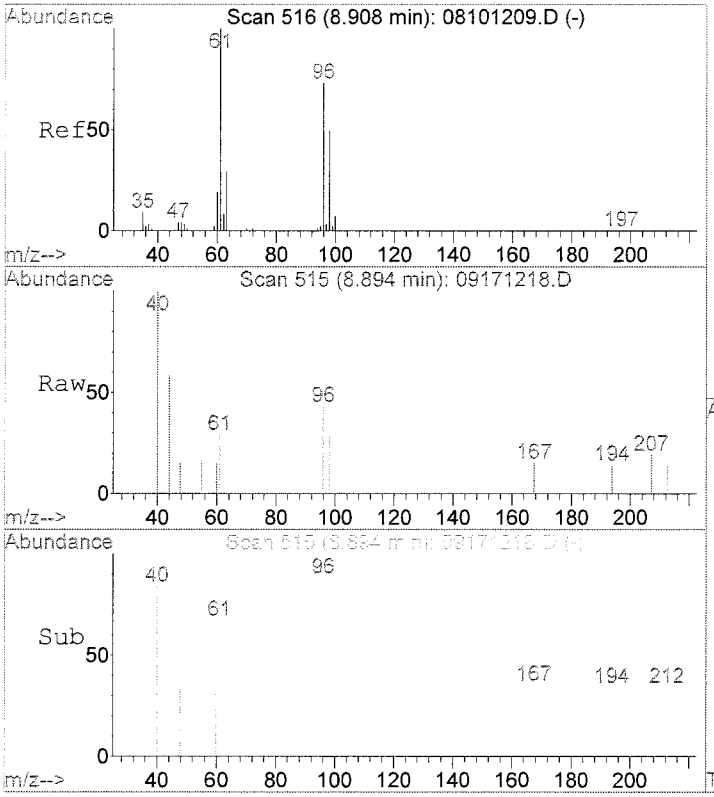


#23
2-Butanone (MEK)
Concen: 0.29 ug/L
RT: 8.81 min Scan# 506
Delta R.T. 0.08 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 72 Resp: 109

Ion	Ratio	Lower	Upper
72	100		
43	178.0	1366.5	2049.7#
57	0.0	0.0	0.0

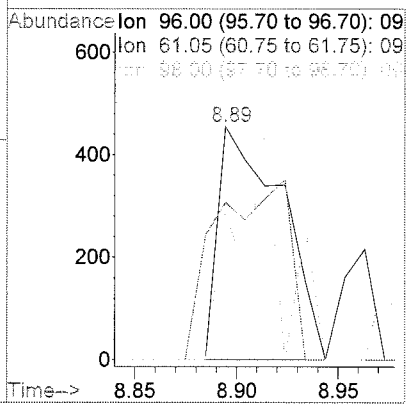




#25
cis-1,2-Dichloroethene
Concen: 0.18 ug/L
RT: 8.89 min Scan# 515
Delta R.T. -0.01 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 96 Resp: 990

Ion	Ratio	Lower	Upper
96	100		
61	88.8	103.2	154.8#
98	69.3	51.4	77.2



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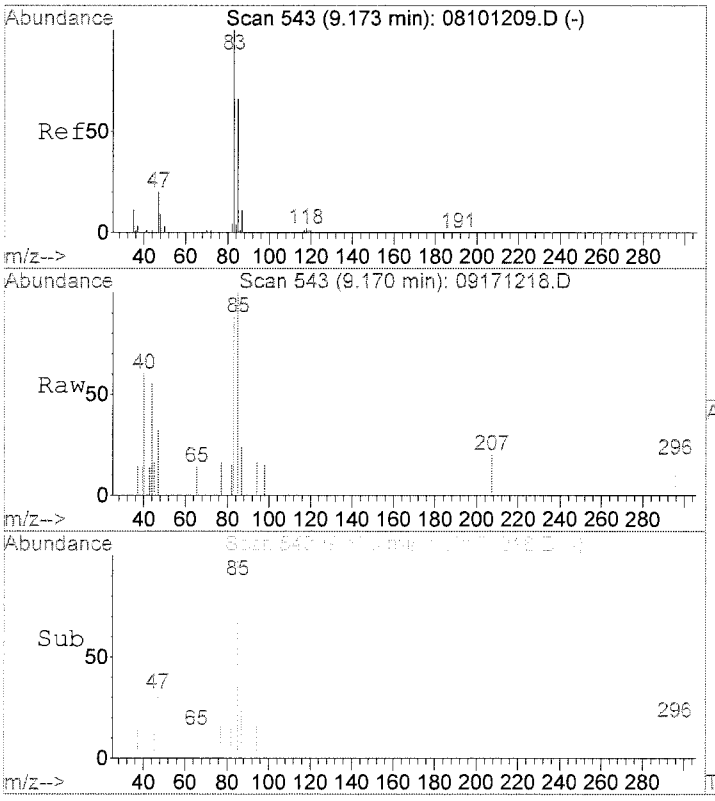
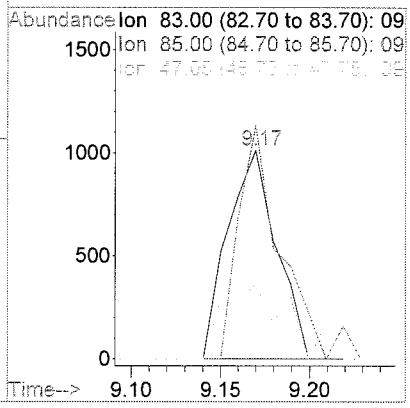


#27
Chloroform
Concen: 0.23 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 83 Resp: 1920

Ion	Ratio	Lower	Upper
83	100		
85	98.0	51.6	77.4#
47	48.4	18.9	28.3#



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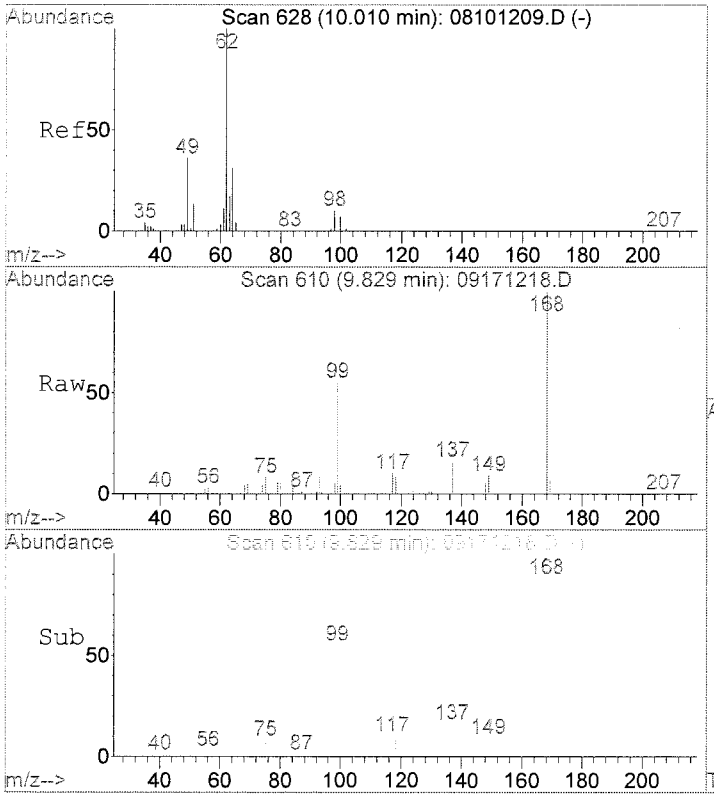
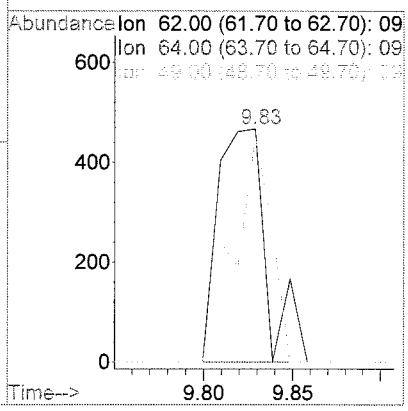
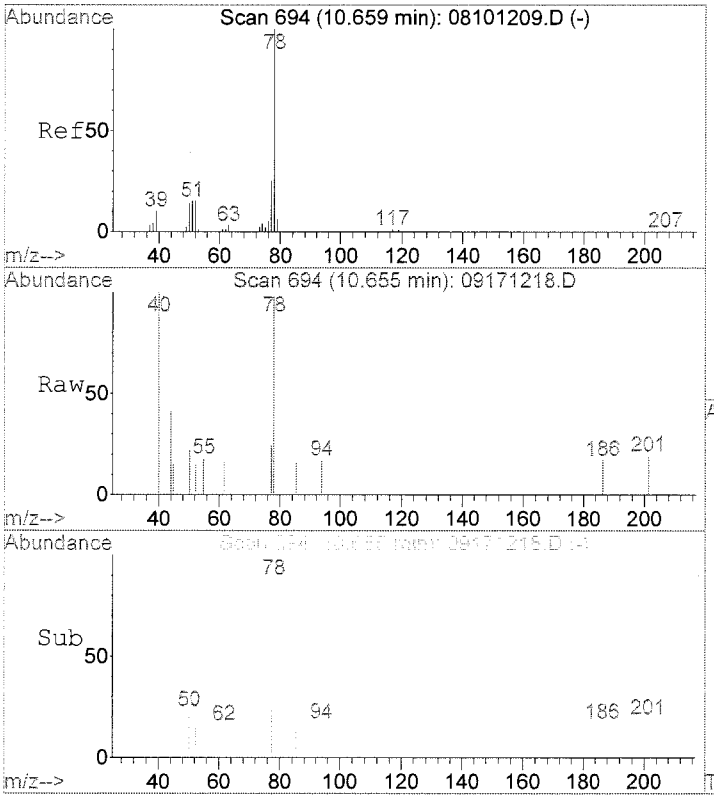


#32
1,2-Dichloroethane
Concen: 0.22 ug/L
RT: 9.83 min Scan# 610
Delta R.T. -0.18 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 62 Resp: 885

Ion	Ratio	Lower	Upper
62	100		
64	12.4	26.4	39.6#
49	76.2	28.0	42.0#

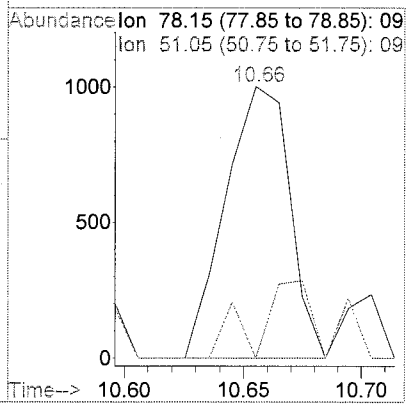


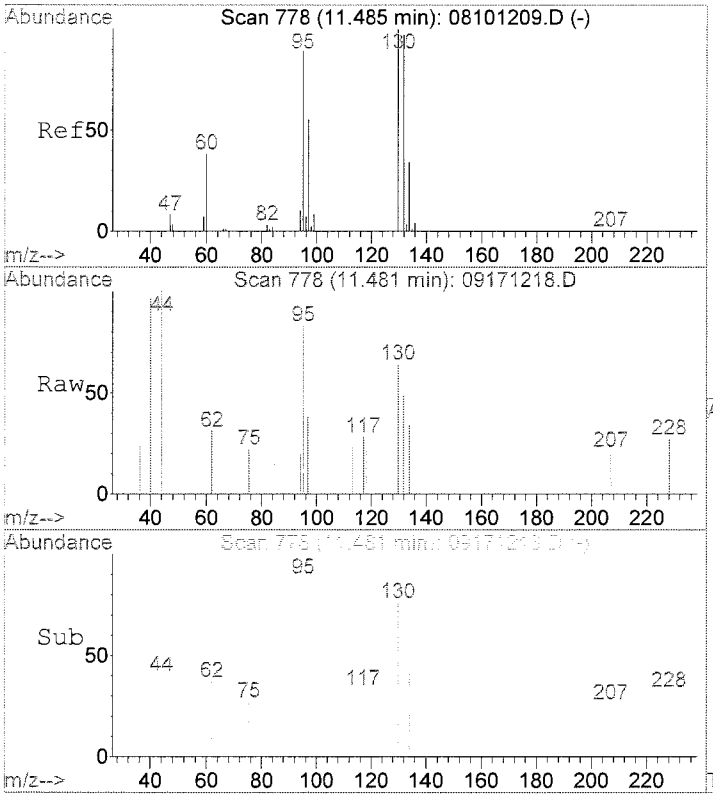


#38
Benzene
Concen: 0.10 ug/L
RT: 10.66 min Scan# 694
Delta R.T. -0.00 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 78 Resp: 1885

Ion	Ratio	Lower	Upper
78	100		
51	30.9	12.4	18.6#

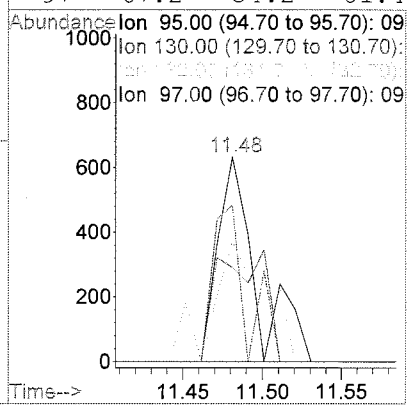


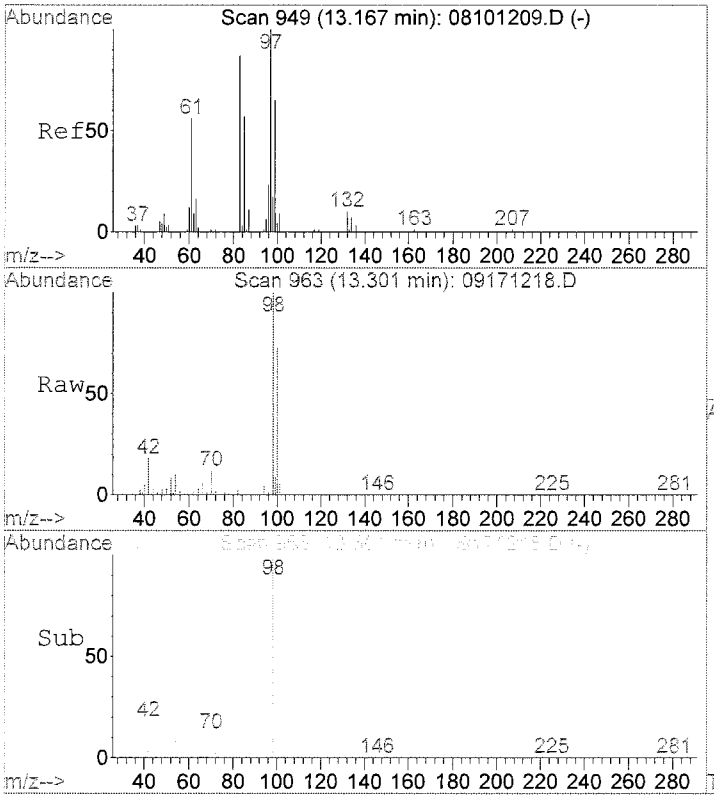


#41
Trichloroethene
Concen: 0.20 ug/L
RT: 11.48 min Scan# 778
Delta R.T. -0.00 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 95 Resp: 1055

Ion	Ratio	Lower	Upper
95	100		
130	67.4	87.3	130.9#
132	82.3	84.2	126.4#
97	67.2	54.2	81.4

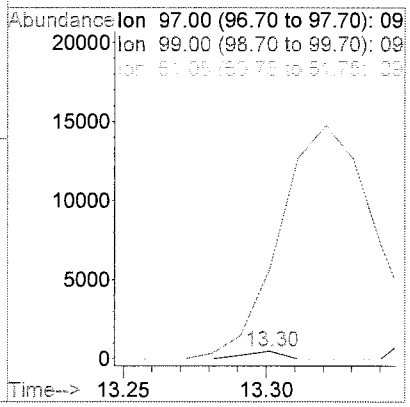


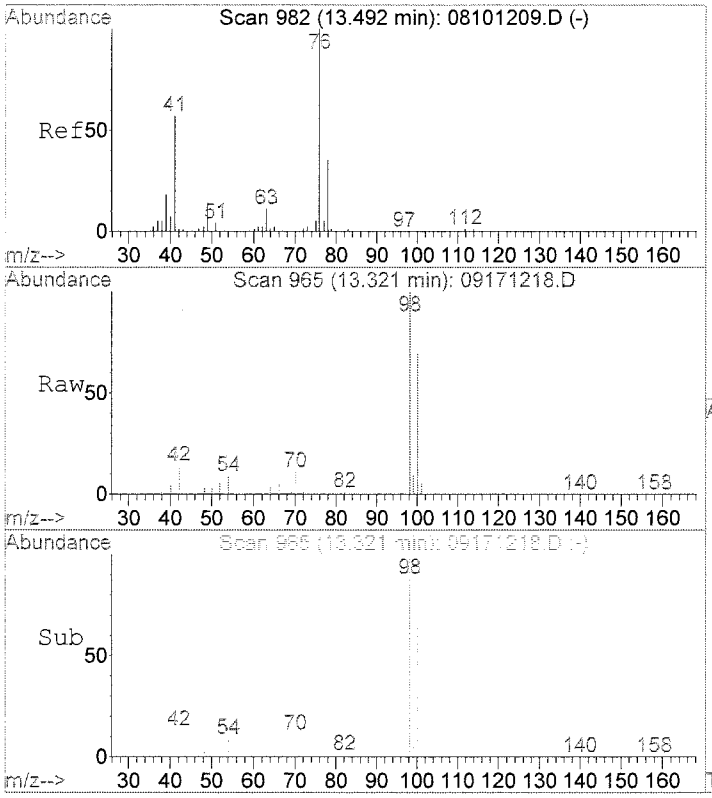


#47
1,1,2-Trichloroethane
Concen: 0.17 ug/L
RT: 13.30 min Scan# 963
Delta R.T. 0.13 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 97 Resp: 430

Ion	Ratio	Lower	Upper
97	100		
99	8430.2	51.8	77.6#
61	0.0	45.0	67.4#

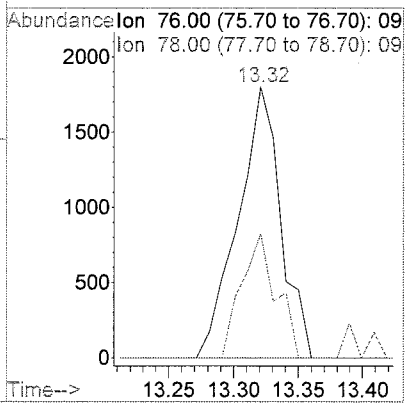


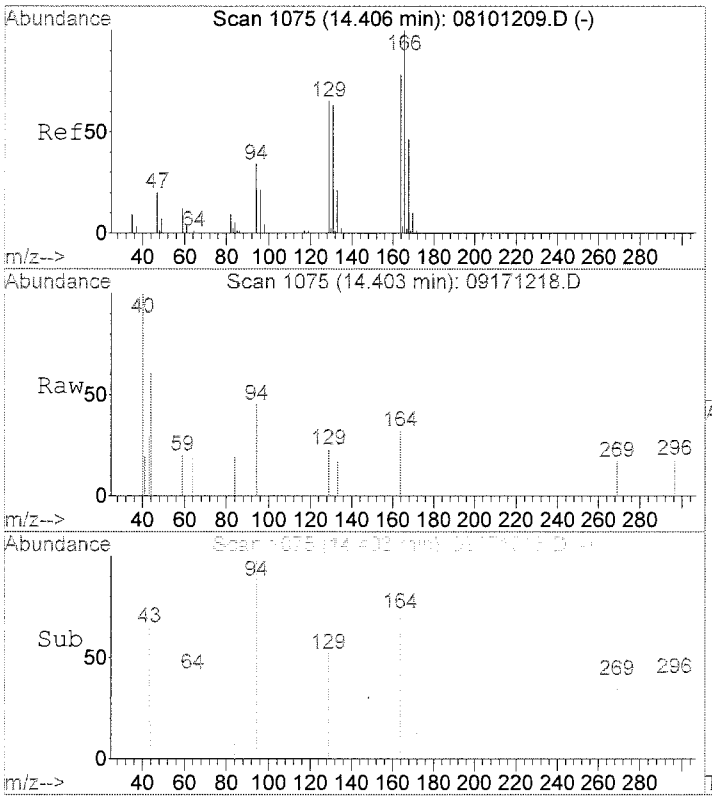


#51
1,3-Dichloropropane
Concen: 0.87 ug/L
RT: 13.32 min Scan# 965
Delta R.T. -0.17 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 76 Resp: 4118

Ion	Ratio	Lower	Upper
76	100		
78	37.6	26.1	39.1

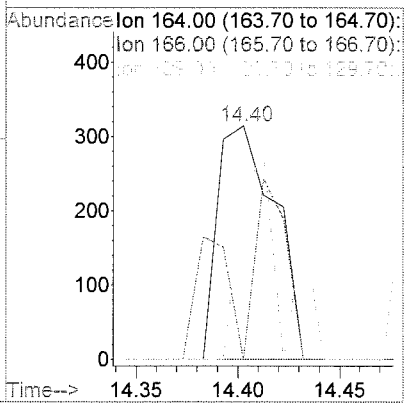


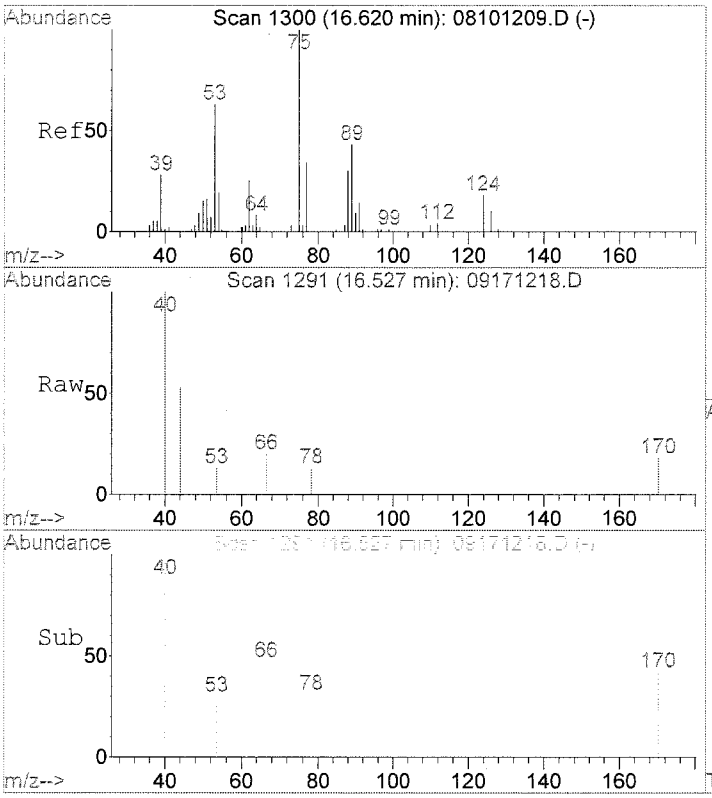


#55
Tetrachloroethene
Concen: 0.13 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion:164 Resp: 611

Ion	Ratio	Lower	Upper
164	100		
166	41.7	102.1	153.1#
129	65.5	66.5	99.7#

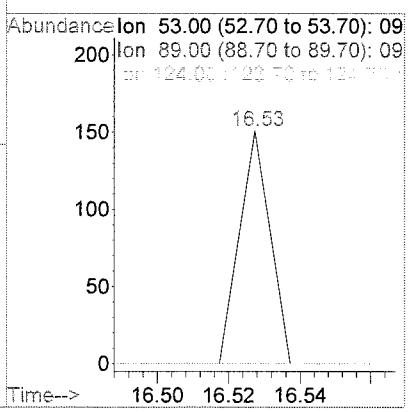




#67
trans-1,4-Dichloro-2-butene
Concen: 1.16 ug/L
RT: 16.53 min Scan# 1291
Delta R.T. -0.09 min
Lab File: 09171218.D
Acq: 17 Sep 2012 1:35 pm

Tgt Ion: 53 Resp: 89

Ion	Ratio	Lower	Upper
53	100		
89	0.0	50.5	75.7#
124	0.0	21.8	32.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171219.D Vial: 19
Acq On : 17 Sep 2012 2:08 pm Operator: MNM
Sample : PVI0867-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 18 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	6.71	65	53542	200.00 ug/L	-0.01
4) Pentafluorobenzene	9.83	168	262820	25.00 ug/L	-0.01
35) 1,4-Difluorobenzene	10.95	114	359258	25.00 ug/L	0.00
50) Chlorobenzene-d5	15.27	117	262768	25.00 ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	98469	25.00 ug/L	0.00
System Monitoring Compounds					
30) Dibromofluoromethane	9.33	113	121433	26.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.68%	
48) Toluene-d8	13.32	98	354949	25.02 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.08%	
62) 4-Bromofluorobenzene	16.95	95	104163	25.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.60%	

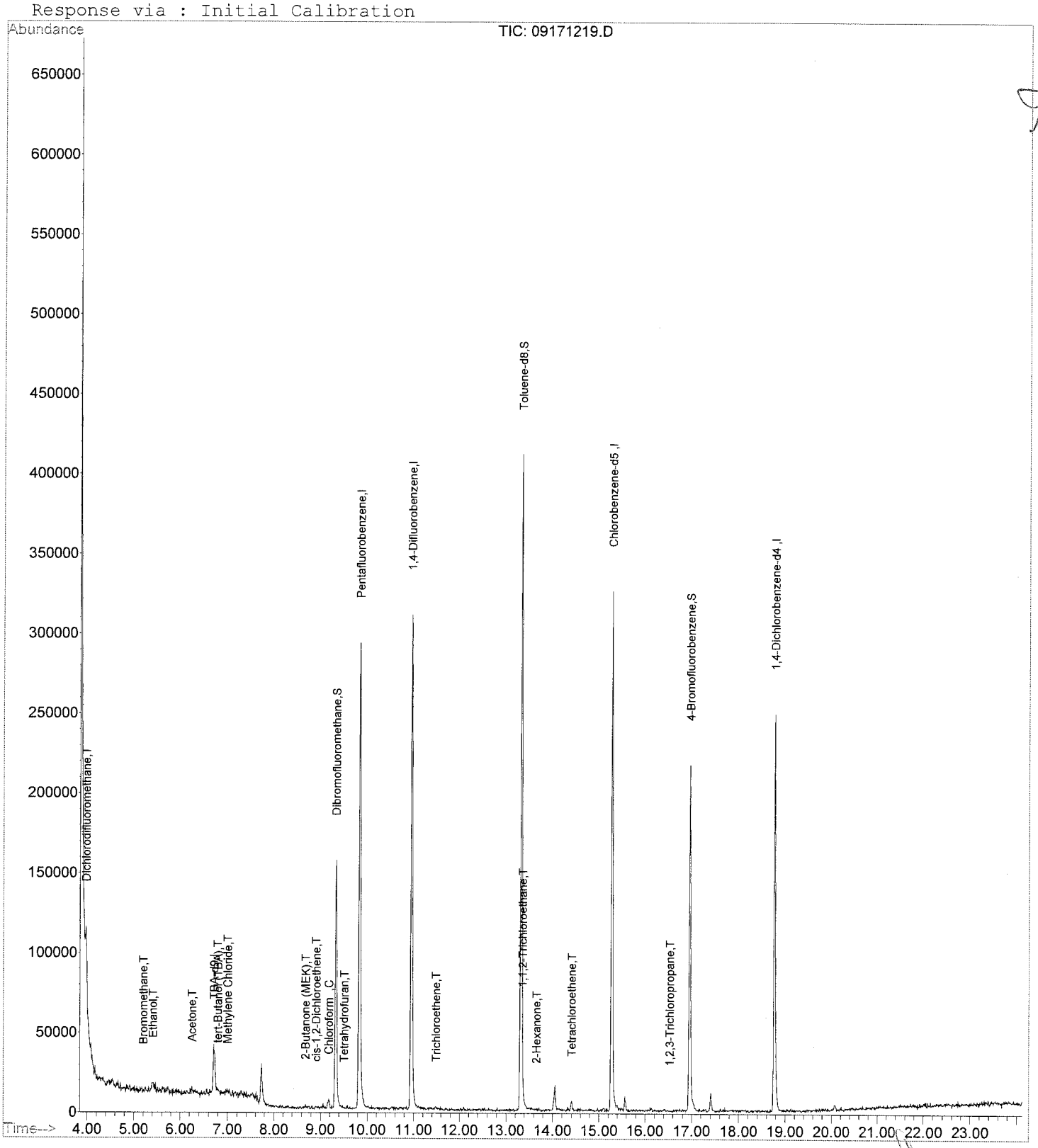
Target Compounds					Qvalue
2) Ethanol	5.41	45	9635	333.78 ug/L	74
3) tert-Butanol (TBA)	6.80	59	205	0.65 ug/L #	1
5) Dichlorodifluoromethane	3.98	85	1895	0.20 ug/L	93
9) Bromomethane	5.21	94	1644	0.31 ug/L #	18
12) Acetone	6.24	43	4799	4.34 ug/L #	48
15) Methylene Chloride	7.01	84	1203	0.26 ug/L #	61
23) 2-Butanone (MEK)	8.67	72	116	0.31 ug/L #	1
25) cis-1,2-Dichloroethene	8.92	96	564	0.10 ug/L #	27
27) Chloroform	9.17	83	5141	0.62 ug/L #	93
31) Tetrahydrofuran	9.51	72	134	0.39 ug/L #	13
41) Trichloroethene	11.48	95	467	0.09 ug/L #	74
47) 1,1,2-Trichloroethane	13.36	97	781	0.31 ug/L #	1
52) 2-Hexanone	13.65	43	205	0.11 ug/L #	34
55) Tetrachloroethene	14.40	164	1740	0.38 ug/L #	89
66) 1,2,3-Trichloropropane	16.54	110	214	0.34 ug/L #	85
85) Hexachlorobutadiene	21.80	225	104	Below Cal #	20
86) 1,2,3-Trichlorobenzene	22.16	180	118	Below Cal #	87

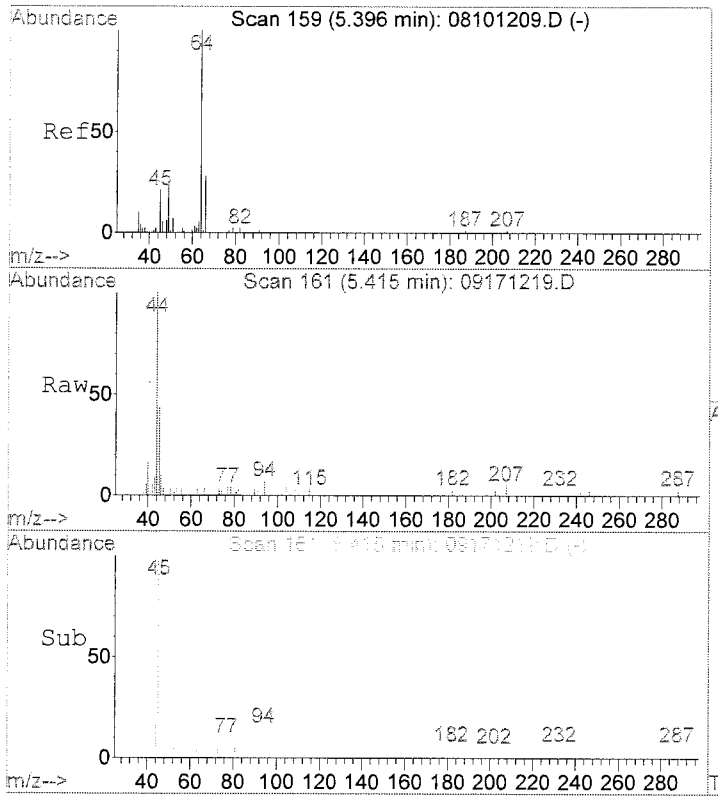
(#) = qualifier out of range (m) = manual integration
09171219.D 081012.M Tue Sep 18 05:31:00 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171219.D Vial: 19
Acq On : 17 Sep 2012 2:08 pm Operator: MNM
Sample : PVI0867-03 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 18 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

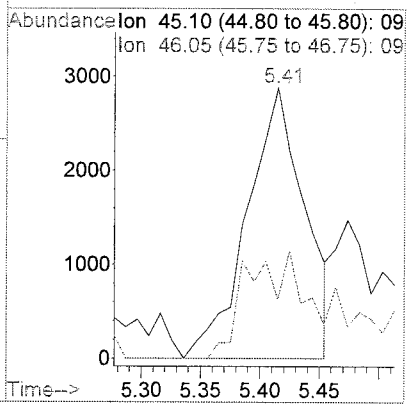


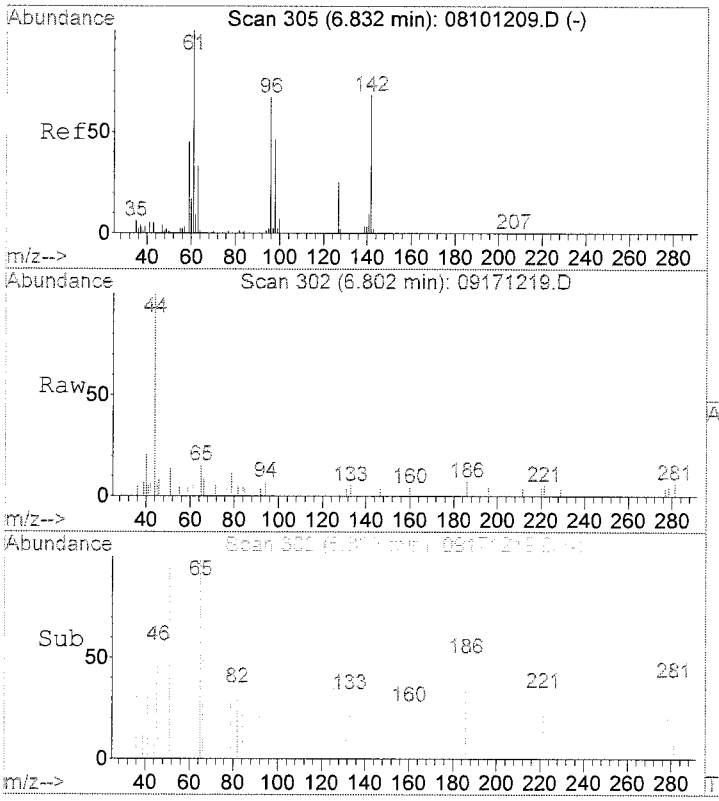


#2
Ethanol
Concen: 333.78 ug/L
RT: 5.41 min Scan# 161
Delta R.T. 0.02 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 45 Resp: 9635

Ion	Ratio	Lower	Upper
45	100		
46	40.4	39.9	79.9

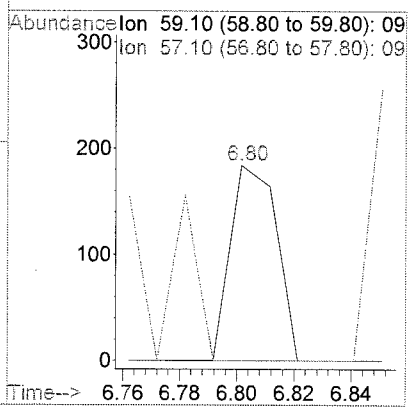


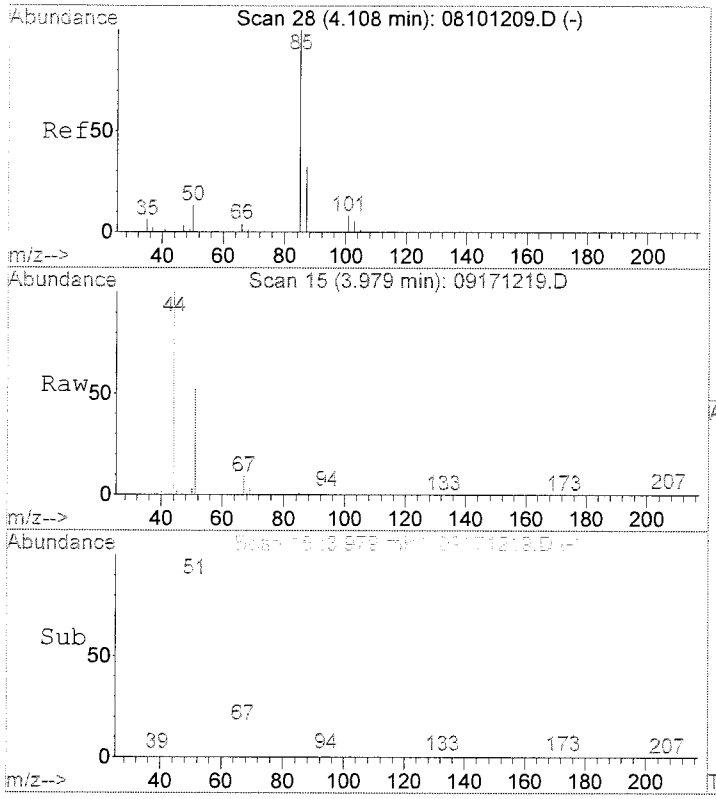


#3
tert-Butanol (TBA)
Concen: 0.65 ug/L
RT: 6.80 min Scan# 302
Delta R.T. -0.03 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 59 Resp: 205

Ion	Ratio	Lower	Upper
59	100		
57	139.5	6.4	9.6#

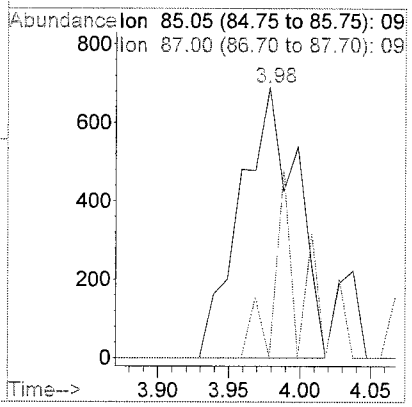


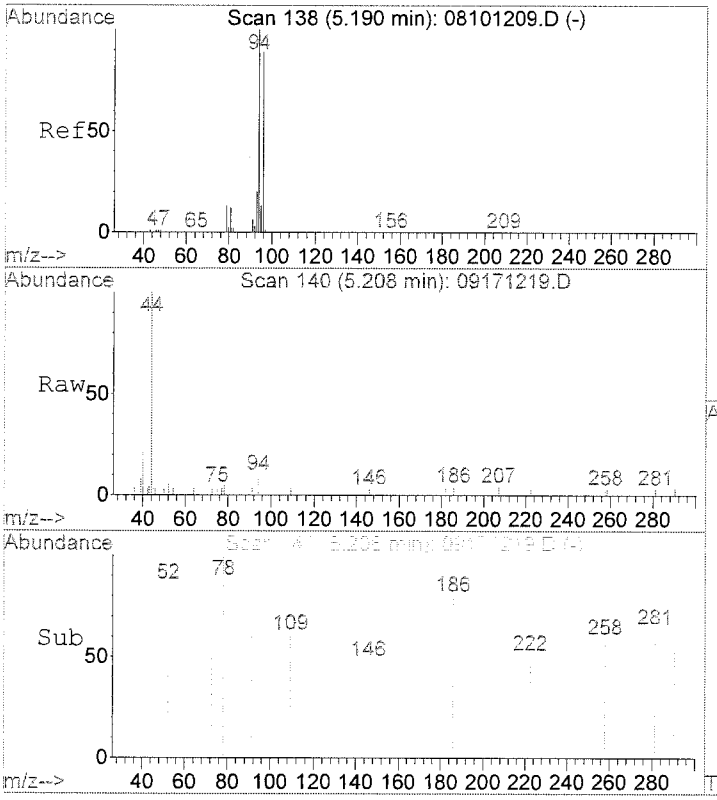


#5
Dichlorodifluoromethane
Concen: 0.20 ug/L
RT: 3.98 min Scan# 15
Delta R.T. -0.13 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 85 Resp: 1895

Ion	Ratio	Lower	Upper
85	100		
87	35.8	11.9	51.9

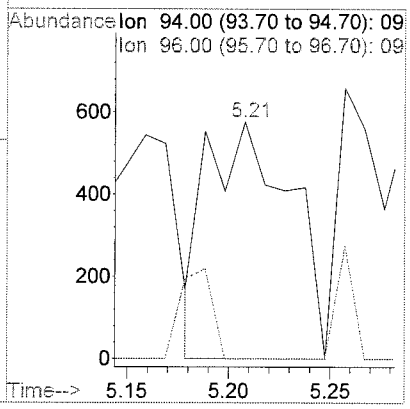


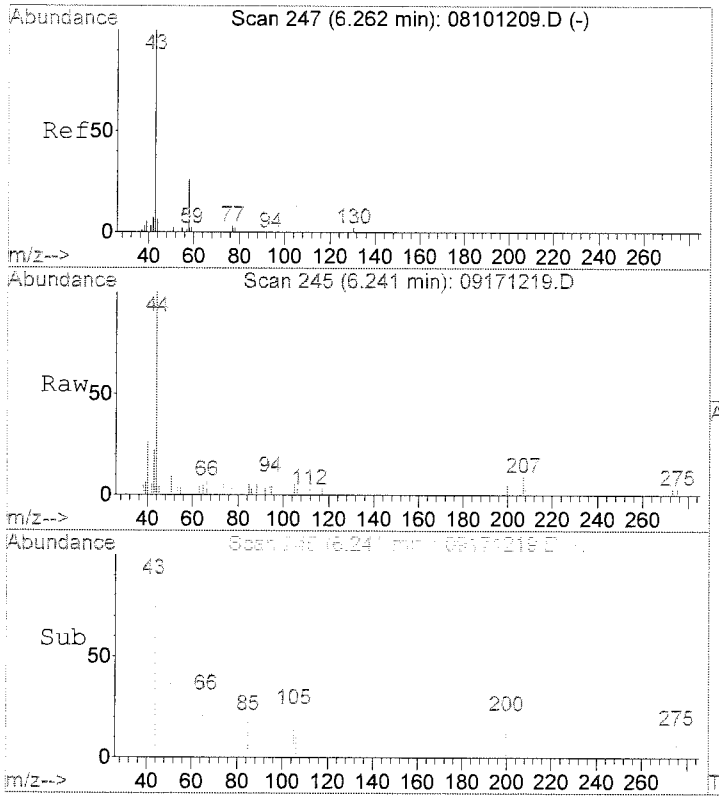


#9
Bromomethane
Concen: 0.31 ug/L
RT: 5.21 min Scan# 140
Delta R.T. 0.02 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 94 Resp: 1644

Ion	Ratio	Lower	Upper
94	100		
96	14.8	75.8	113.6#

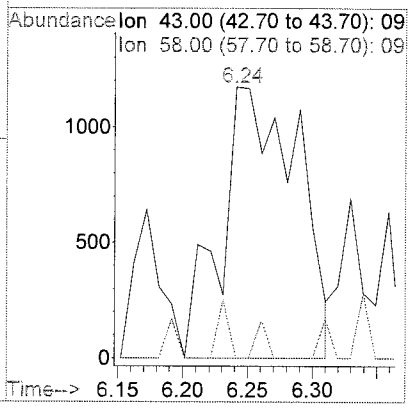


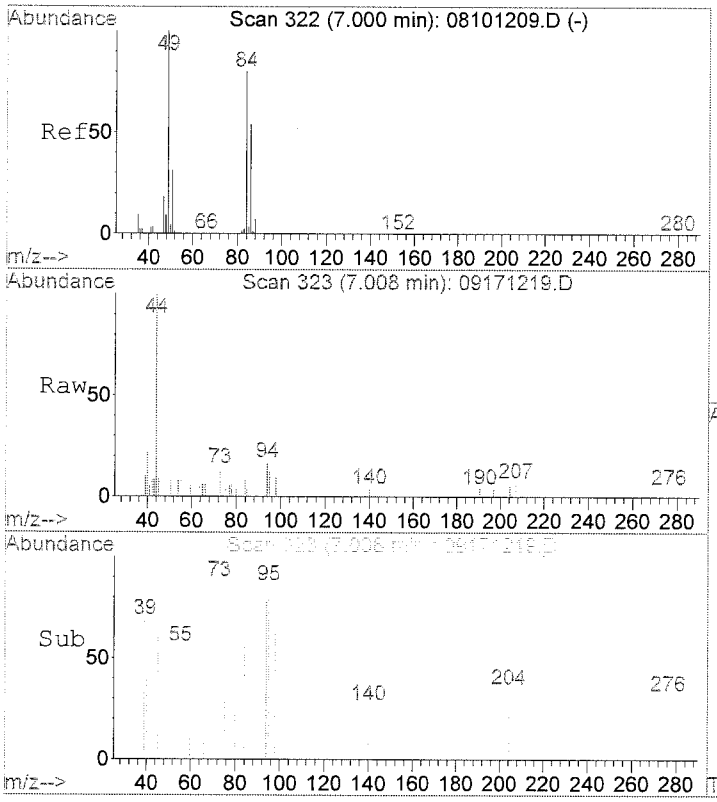


#12
Acetone
Concen: 4.34 ug/L
RT: 6.24 min Scan# 245
Delta R.T. -0.02 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 43 Resp: 4799

Ion	Ratio	Lower	Upper
43	100		
58	3.1	25.9	38.9#

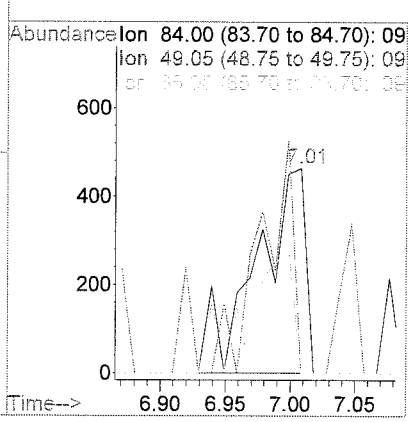


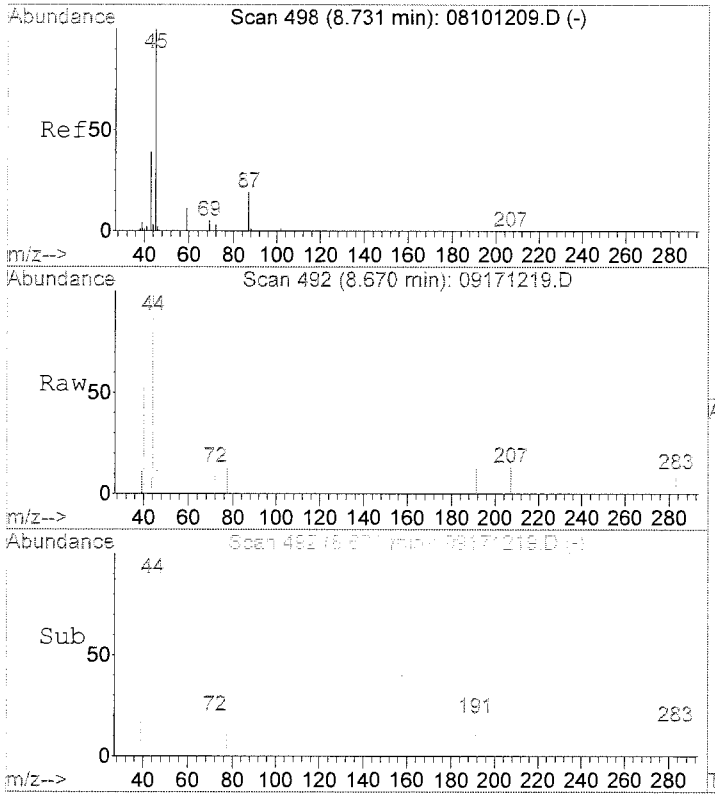


#15
Methylene Chloride
Concen: 0.26 ug/L
RT: 7.01 min Scan# 323
Delta R.T. 0.01 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 84 Resp: 1203

Ion	Ratio	Lower	Upper
84	100		
49	76.1	103.4	155.0#
86	44.1	52.0	78.0#

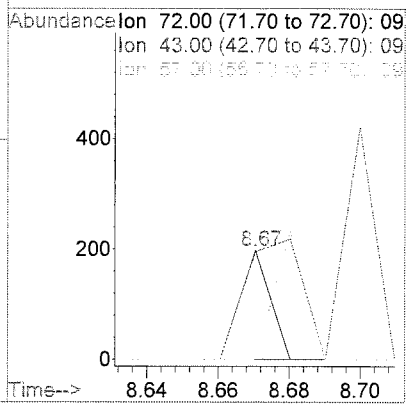


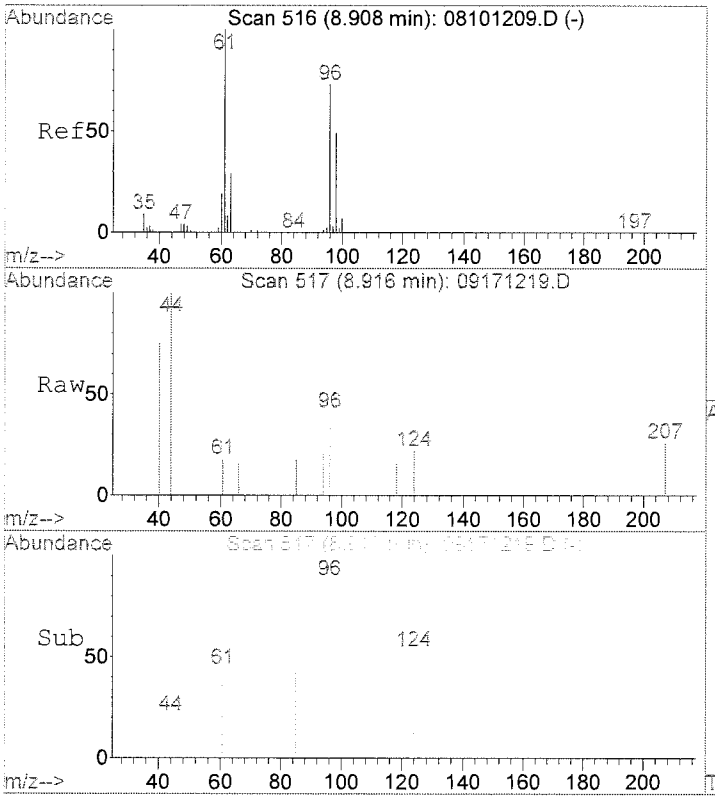


#23
2-Butanone (MEK)
Concen: 0.31 ug/L
RT: 8.67 min Scan# 492
Delta R.T. -0.06 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 72 Resp: 116

Ion	Ratio	Lower	Upper
72	100		
43	210.3	1366.5	2049.7#
57	119.0	0.0	0.0#

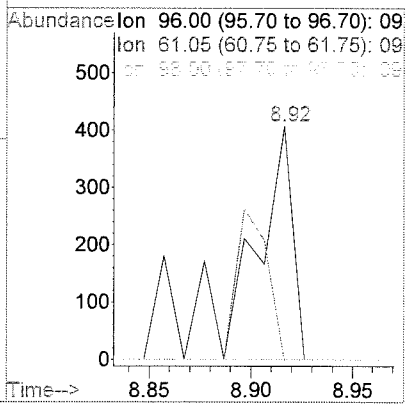


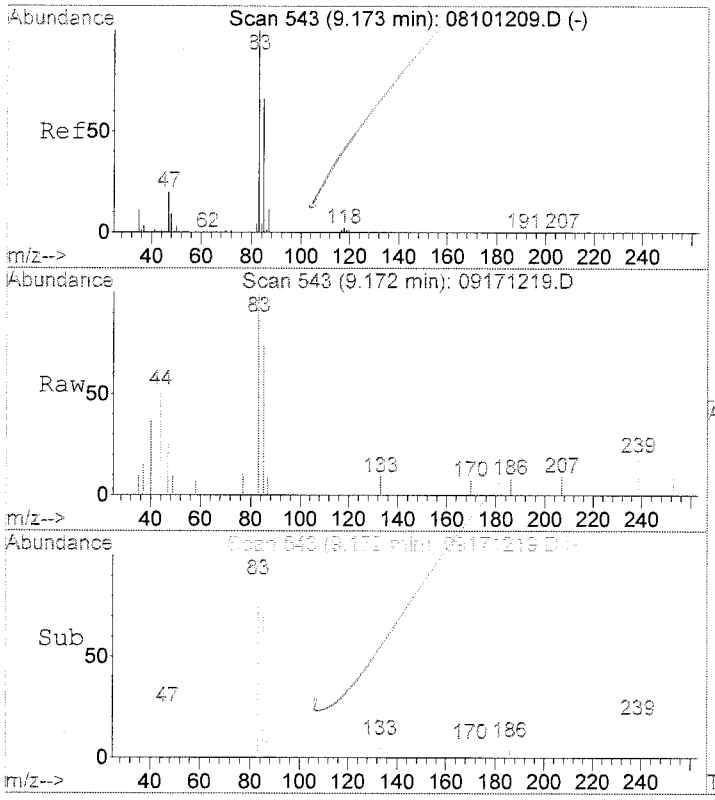


#25
cis-1,2-Dichloroethene
Concen: 0.10 ug/L
RT: 8.92 min Scan# 517
Delta R.T. 0.01 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 96 Resp: 564

Ion	Ratio	Lower	Upper
96	100		
61	49.1	103.2	154.8#
98	0.0	51.4	77.2#



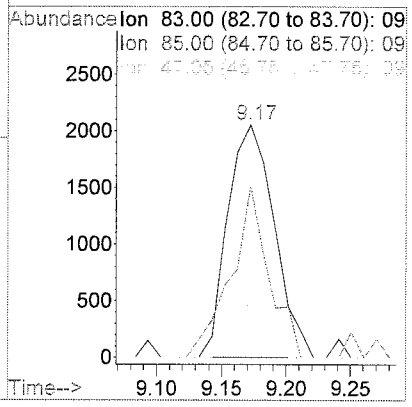


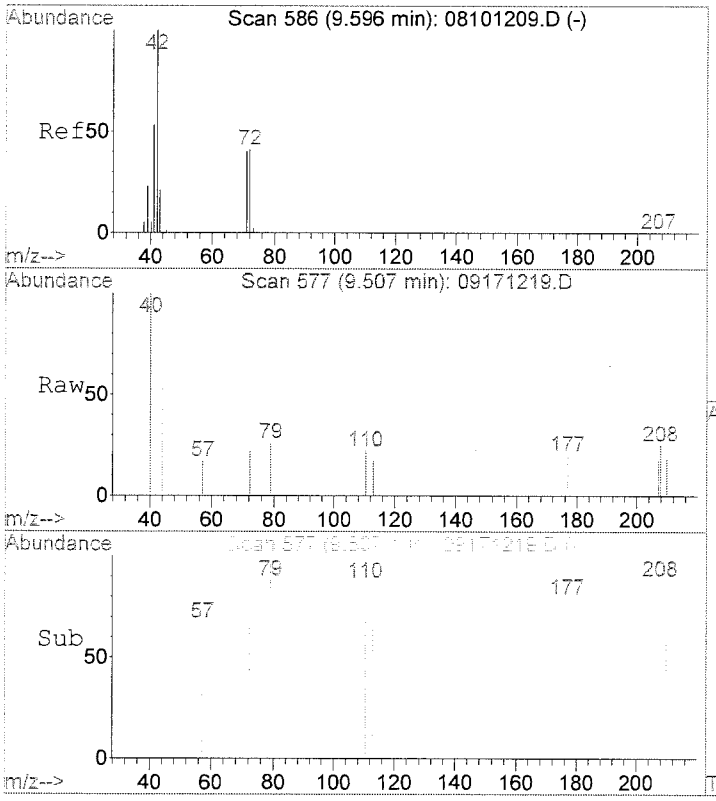
#27
Chloroform
Concen: 0.62 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 83 Resp: 5141

Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.6	77.4
47	18.5	18.9	28.3#

OK

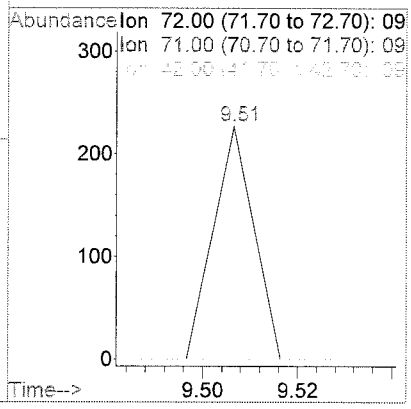


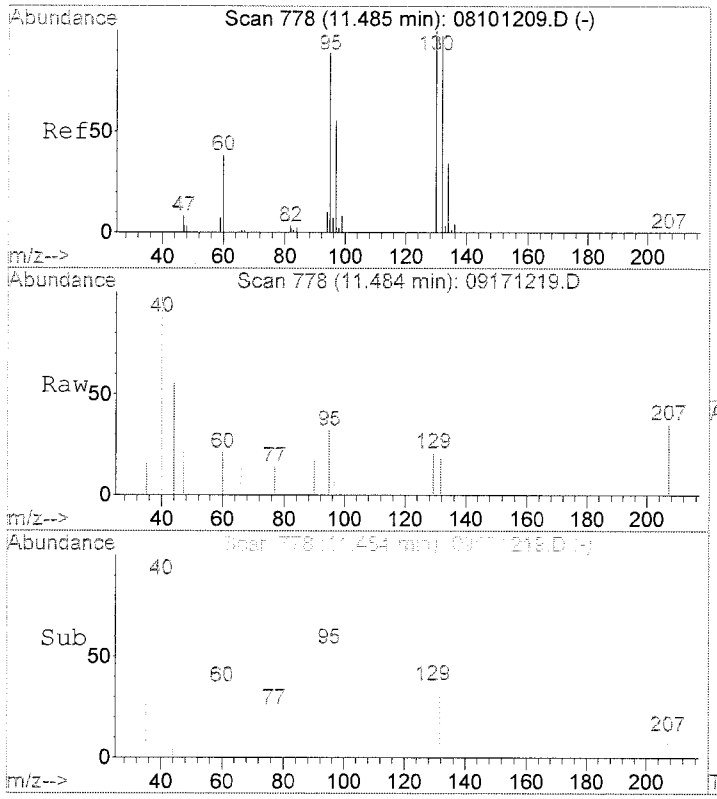


#31
Tetrahydrofuran
Concen: 0.39 ug/L
RT: 9.51 min Scan# 577
Delta R.T. -0.09 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 72 Resp: 134

Ion	Ratio	Lower	Upper
72	100		
71	72.4	79.1	118.7#
42	71.6	217.1	325.7#

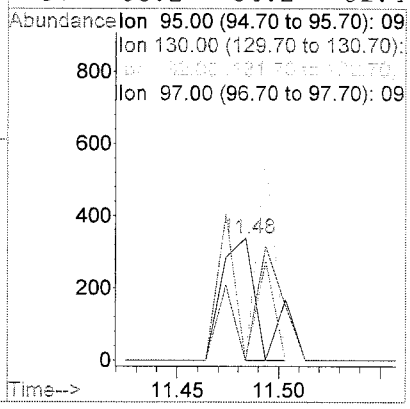


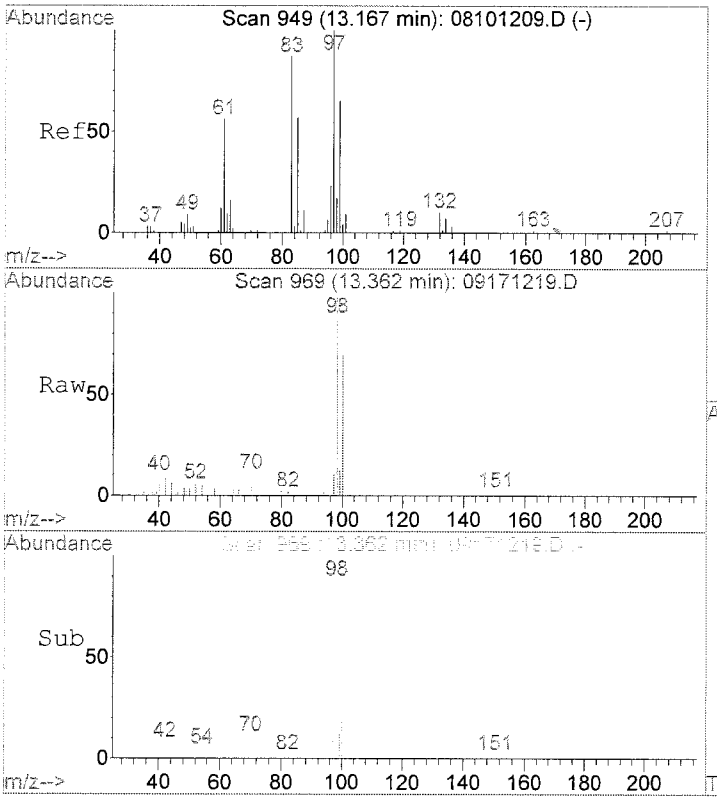


#41
Trichloroethene
Concen: 0.09 ug/L
RT: 11.48 min Scan# 778
Delta R.T. -0.00 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 95 Resp: 467

Ion	Ratio	Lower	Upper
95	100		
130	85.9	87.3	130.9#
132	71.5	84.2	126.4#
97	85.2	54.2	81.4#

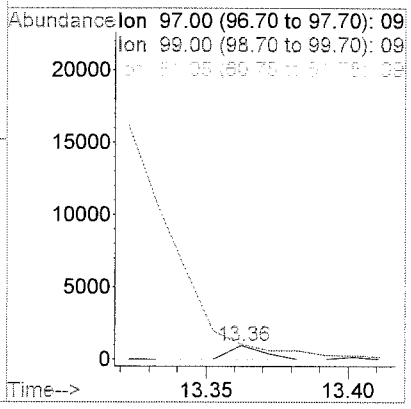


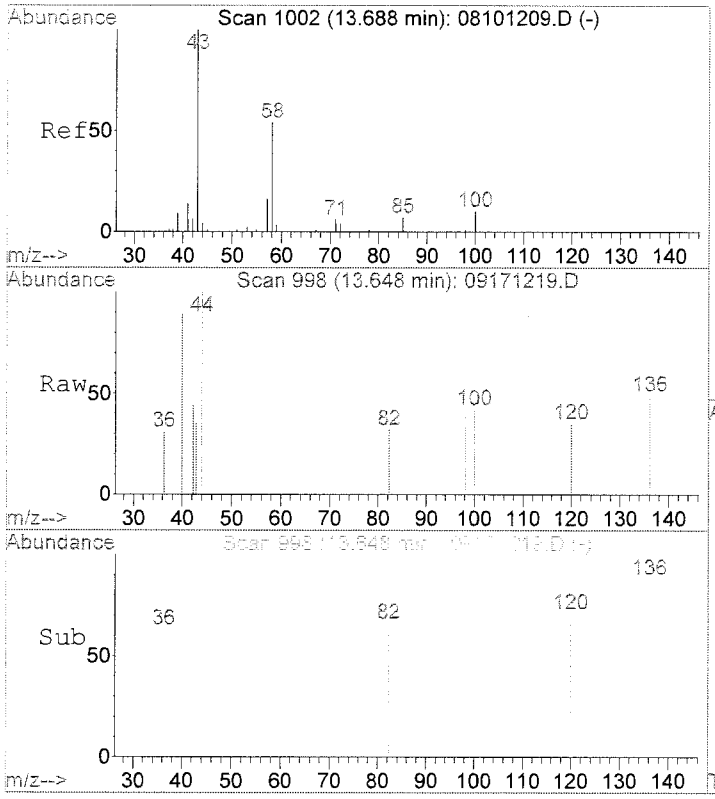


#47
1,1,2-Trichloroethane
Concen: 0.31 ug/L
RT: 13.36 min Scan# 969
Delta R.T. 0.20 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 97 Resp: 781

Ion	Ratio	Lower	Upper
97	100		
99	4445.1	51.8	77.6#
61	12.0	45.0	67.4#

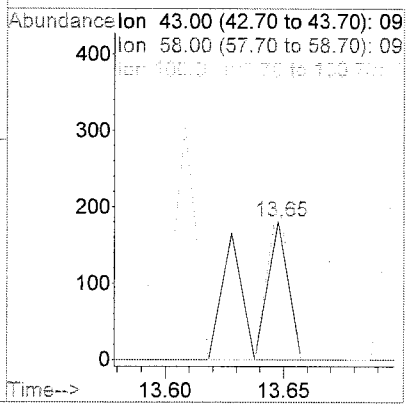


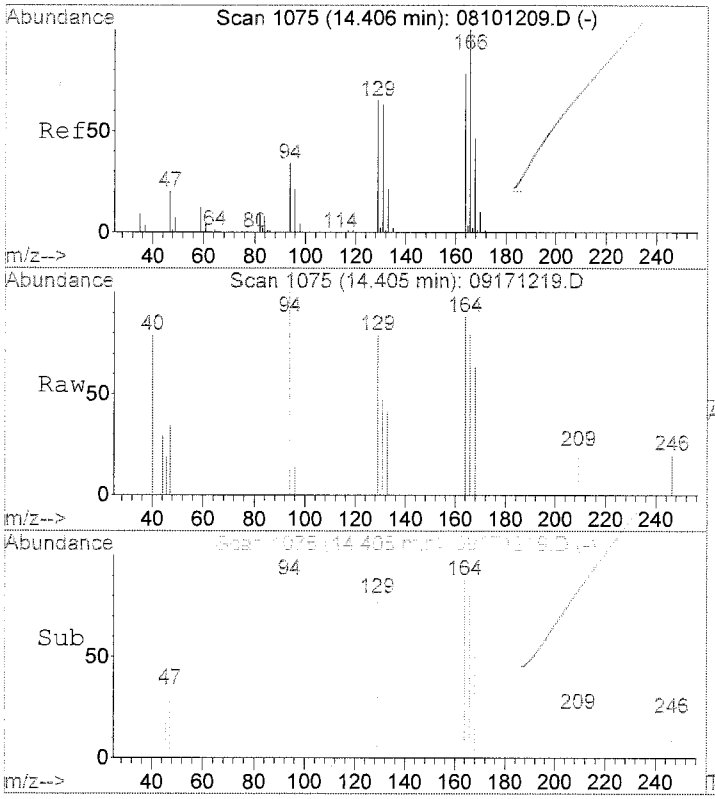


#52
2-Hexanone
Concen: 0.11 ug/L
RT: 13.65 min Scan# 998
Delta R.T. -0.04 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion: 43 Resp: 205

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.4#
100	0.0	8.6	12.8#



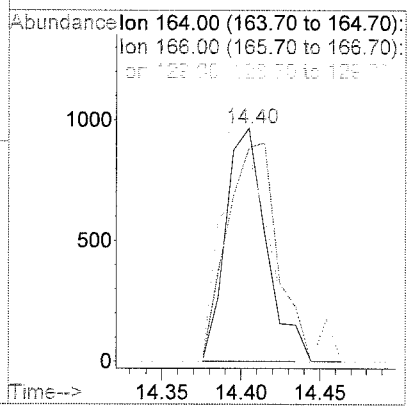


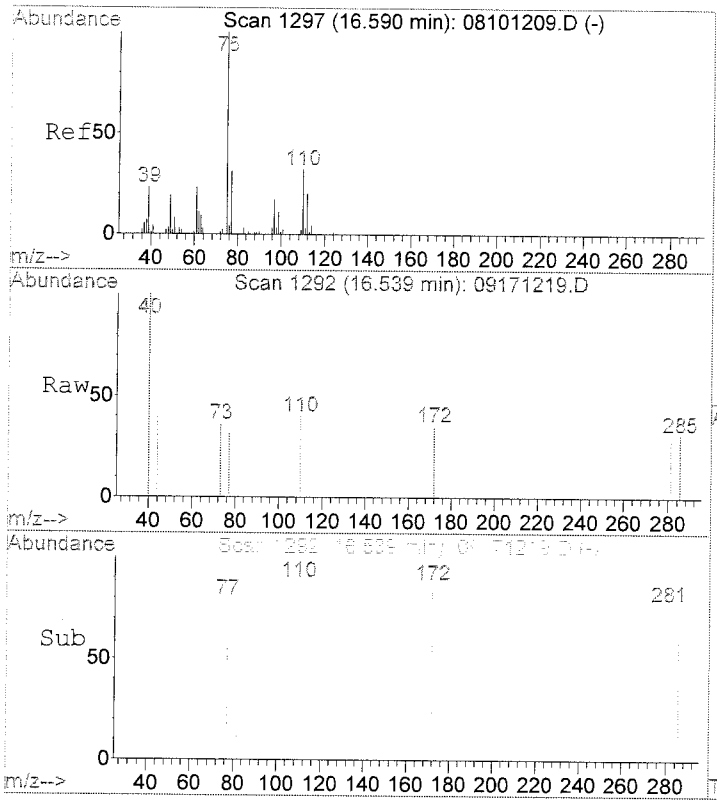
#55
Tetrachloroethene
Concen: 0.38 ug/L
RT: 14.40 min Scan# 1075
Delta R.T. -0.00 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion:164 Resp: 1740

Ion	Ratio	Lower	Upper
164	100		
166	121.3	102.1	153.1
129	100.8	66.5	99.7#

OK

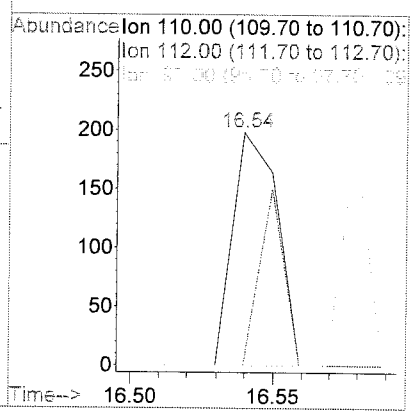


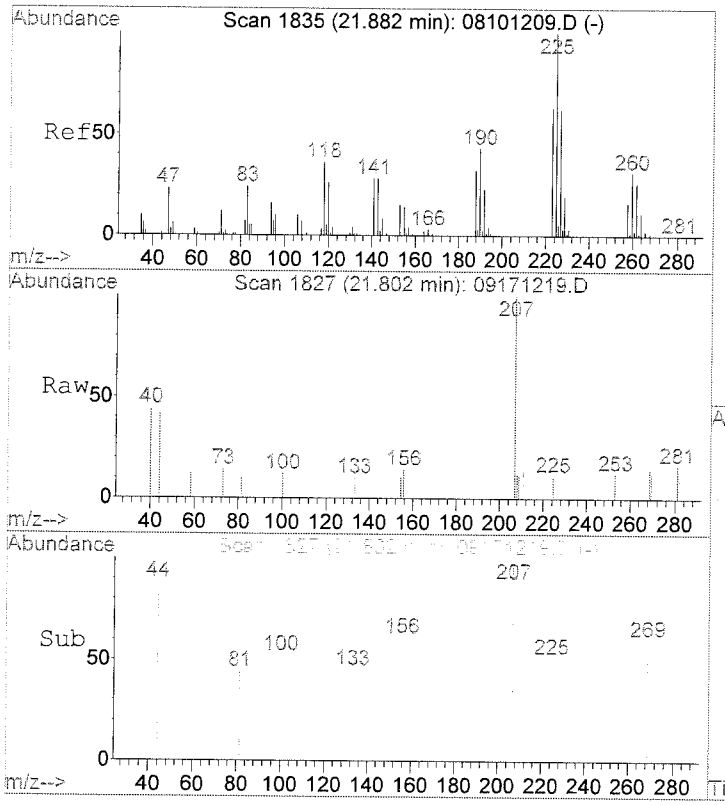


#66
1,2,3-Trichloropropane
Concen: 0.34 ug/L
RT: 16.54 min Scan# 1292
Delta R.T. -0.05 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion:110 Resp: 214

Ion	Ratio	Lower	Upper
110	100		
112	41.6	49.9	74.9#
97	52.8	42.2	63.2

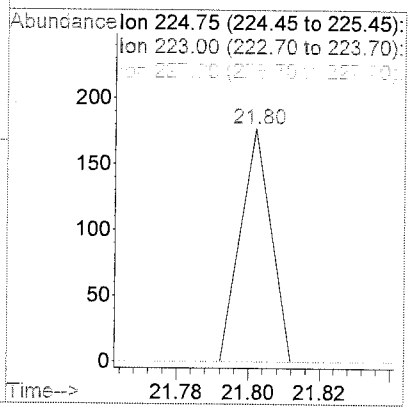


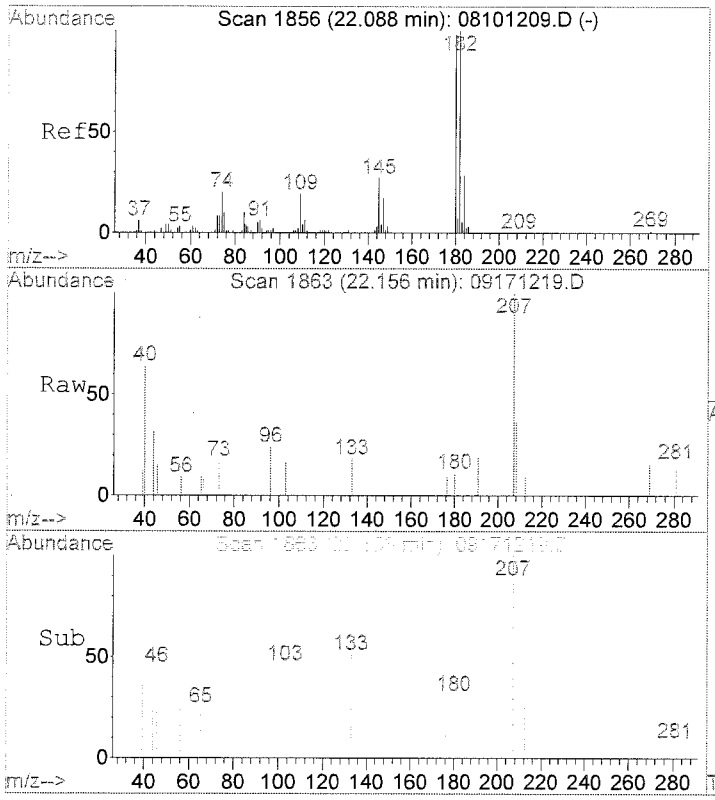


#85
Hexachlorobutadiene
Concen: Below Cal
RT: 21.80 min Scan# 1827
Delta R.T. -0.08 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion:225 Resp: 104

Ion	Ratio	Lower	Upper
225	100		
223	0.0	47.8	71.8#
227	0.0	50.6	75.8#

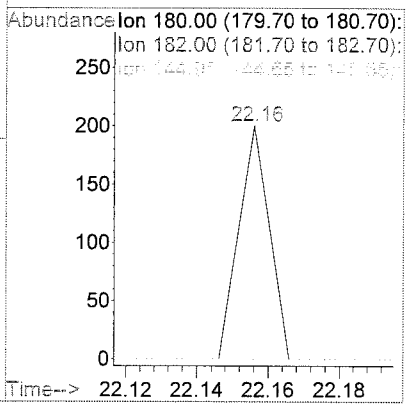




#86
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 22.16 min Scan# 1863
Delta R.T. 0.07 min
Lab File: 09171219.D
Acq: 17 Sep 2012 2:08 pm

Tgt Ion:180 Resp: 118

Ion	Ratio	Lower	Upper
180	100		
182	99.2	78.9	118.3
145	0.0	23.2	34.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171220.D Vial: 20
Acq On : 17 Sep 2012 2:40 pm Operator: MNM
Sample : PVI0867-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 18 5:30 2012 Quant Results File: 081012.RES

Quant Method : C:\HPCHEM\1...\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration
DataAcq Meth : 8260

9/18/12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	6.72	65	68150	200.00	ug/L	0.00
4) Pentafluorobenzene	9.84	168	248737	25.00	ug/L	0.00
35) 1,4-Difluorobenzene	10.95	114	349514	25.00	ug/L	0.00
50) Chlorobenzene-d5	15.28	117	256644	25.00	ug/L	0.00
63) 1,4-Dichlorobenzene-d4	18.77	152	94683	25.00	ug/L	0.00
System Monitoring Compounds						
30) Dibromofluoromethane	9.33	113	120639	27.73	ug/L	0.00
Spiked Amount 25.000			Recovery	=	110.92%	
48) Toluene-d8	13.32	98	349572	25.33	ug/L	0.00
Spiked Amount 25.000			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	16.95	95	102135	25.75	ug/L	0.00
Spiked Amount 25.000			Recovery	=	103.00%	

Target Compounds						Qvalue
2) Ethanol	5.40	45	18510	503.79	ug/L #	51
3) tert-Butanol (TBA)	6.85	59	106	0.27	ug/L #	1
6) Chloromethane	4.38	50	909	0.10	ug/L	75
8) 1,3-Butadiene	4.82	54	454	0.10	ug/L #	1
9) Bromomethane	5.20	94	750	0.15	ug/L	89
12) Acetone	6.29	43	1871	1.79	ug/L #	81
15) Methylene Chloride	6.99	84	1061	0.24	ug/L #	16
23) 2-Butanone (MEK)	8.80	72	96	0.27	ug/L #	1
25) cis-1,2-Dichloroethene	8.91	96	476	0.09	ug/L #	37
27) Chloroform	9.17	83	3433	0.44	ug/L #	92 J
31) Tetrahydrofuran	9.82	72	113	0.35	ug/L #	26
51) 1,3-Dichloropropane	13.32	76	3548	0.78	ug/L #	72
67) trans-1,4-Dichloro-2-buten	16.59	53	97	1.17	ug/L #	52
82) 1,2-Dibromo-3-chloropropan	19.88	75	109	0.59	ug/L #	41

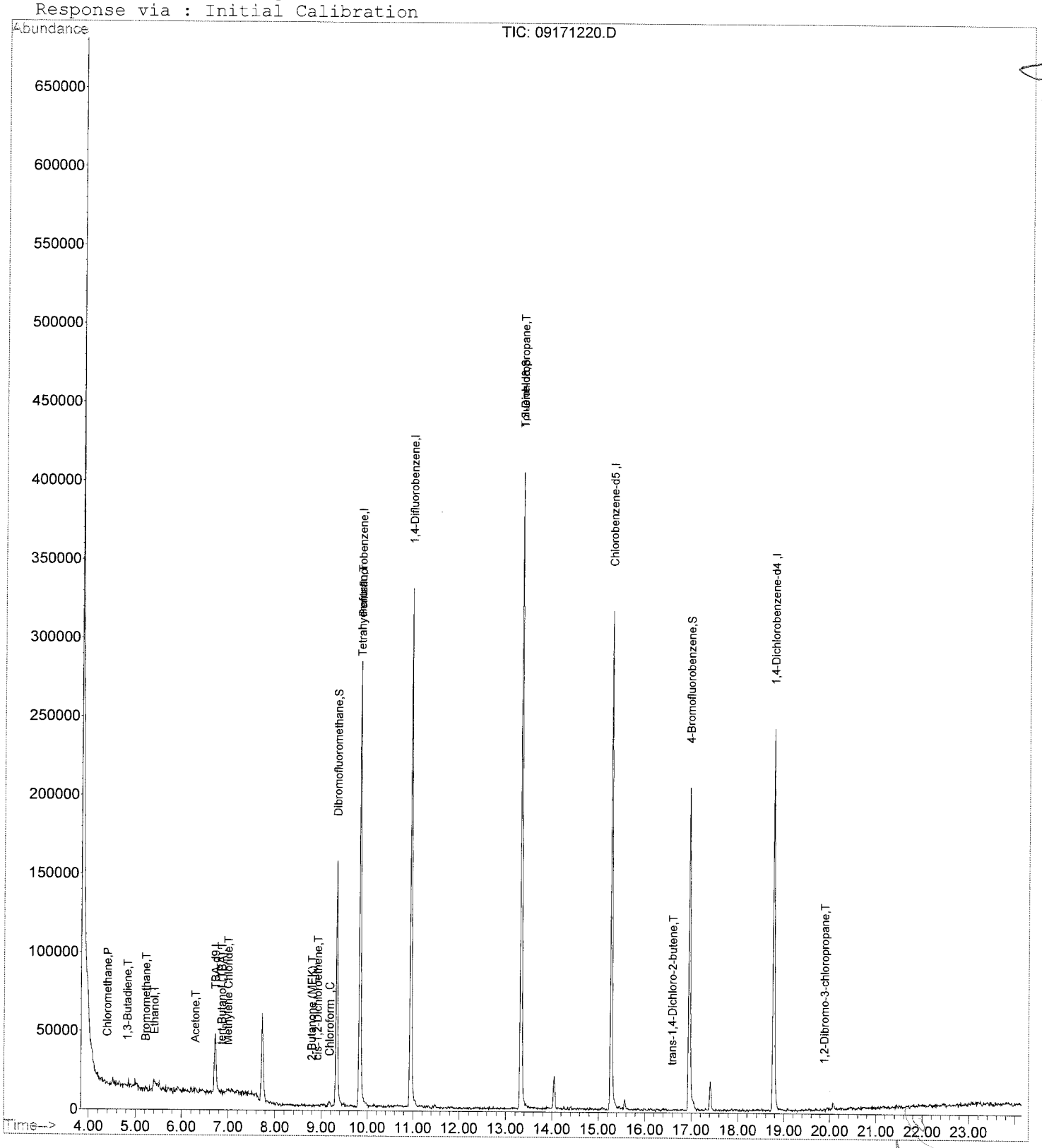
LL 09/18/12

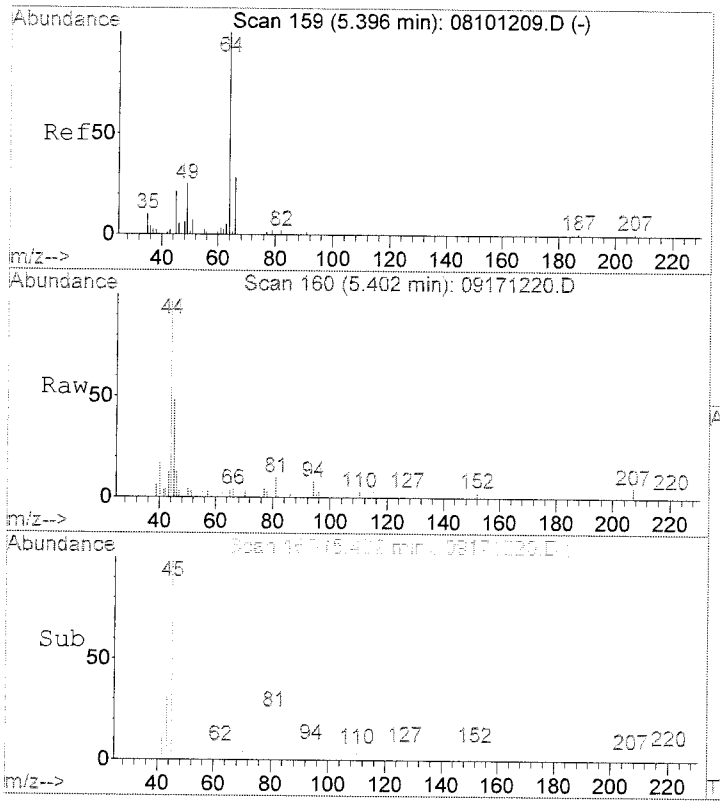
(#) = qualifier out of range (m) = manual integration
09171220.D 081012.M Tue Sep 18 05:31:06 2012

Quantitation Report

Data File : C:\HPCHEM\1\GCMS2\DATA\091712\09171220.D Vial: 20
Acq On : 17 Sep 2012 2:40 pm Operator: MNM
Sample : PVI0867-04 Inst : GC/MS #2
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 18 5:30 2012 Quant Results File: 081012.RES

Method : C:\HPCHEM\1\GCMS2\METHODS\081012.M (RTE Integrator)
Title : 8260 Purgeables Calibration
Last Update : Fri Aug 10 12:54:45 2012
Response via : Initial Calibration

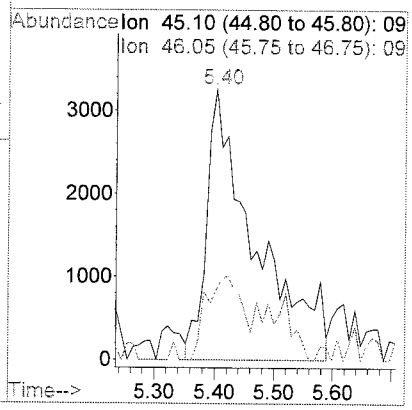


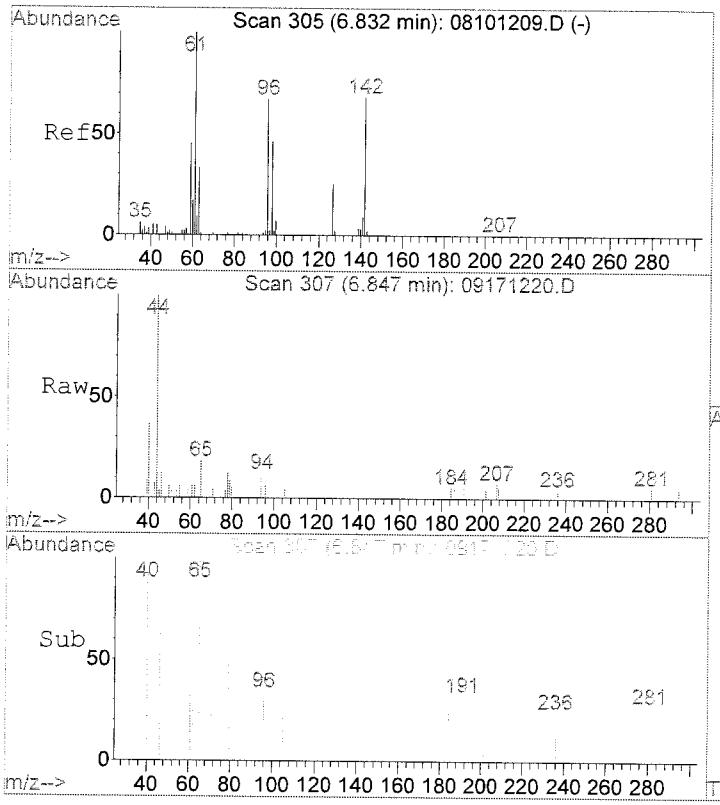


#2
Ethanol
Concen: 503.79 ug/L
RT: 5.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 45 Resp: 18510

Ion	Ratio	Lower	Upper
45	100		
46	22.7	39.9	79.9#

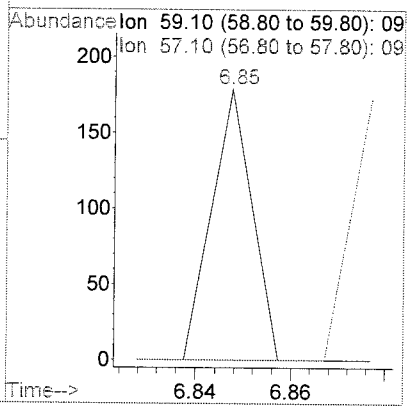


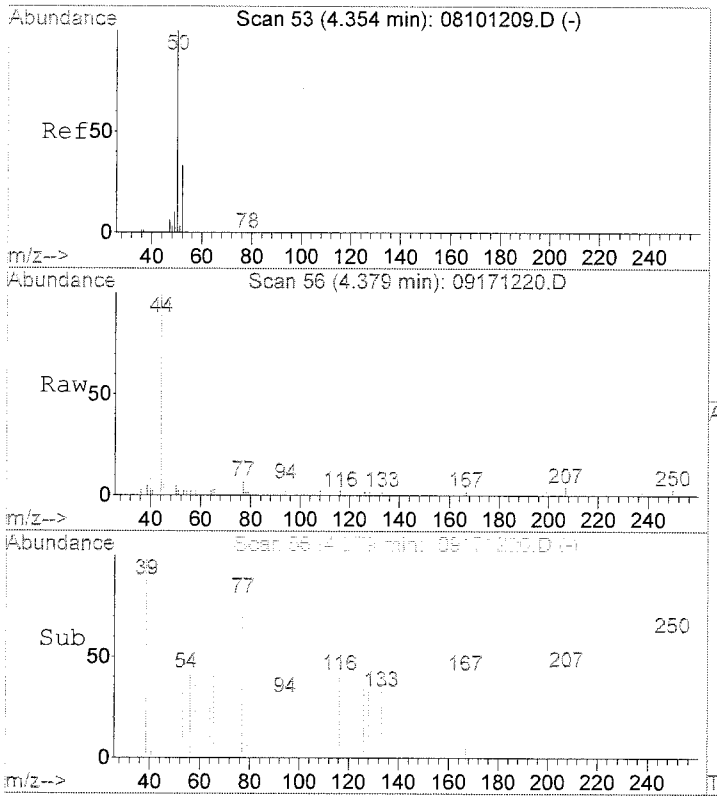


#3
tert-Butanol (TBA)
Concen: 0.27 ug/L
RT: 6.85 min Scan# 307
Delta R.T. 0.02 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 59 Resp: 106

Ion	Ratio	Lower	Upper
59	100		
57	170.8	6.4	9.6#

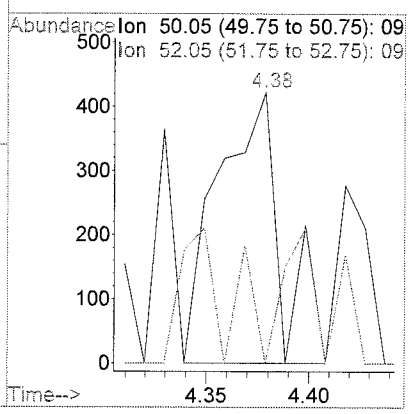


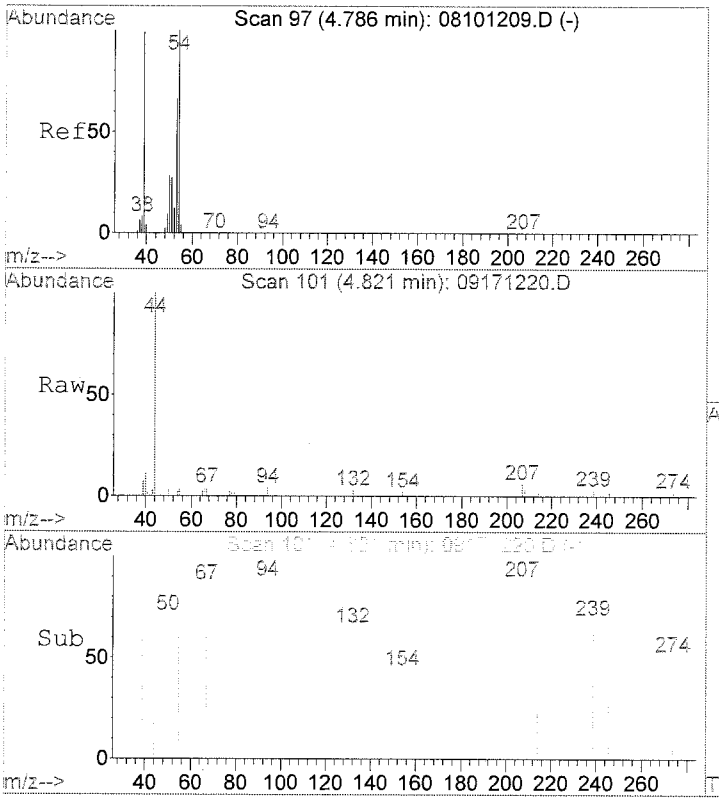


#6
Chloromethane
Concen: 0.10 ug/L
RT: 4.38 min Scan# 56
Delta R.T. 0.02 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 50 Resp: 909

Ion	Ratio	Lower	Upper
50	100		
52	46.4	12.3	52.3

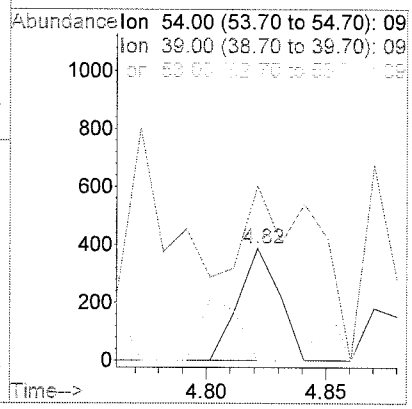


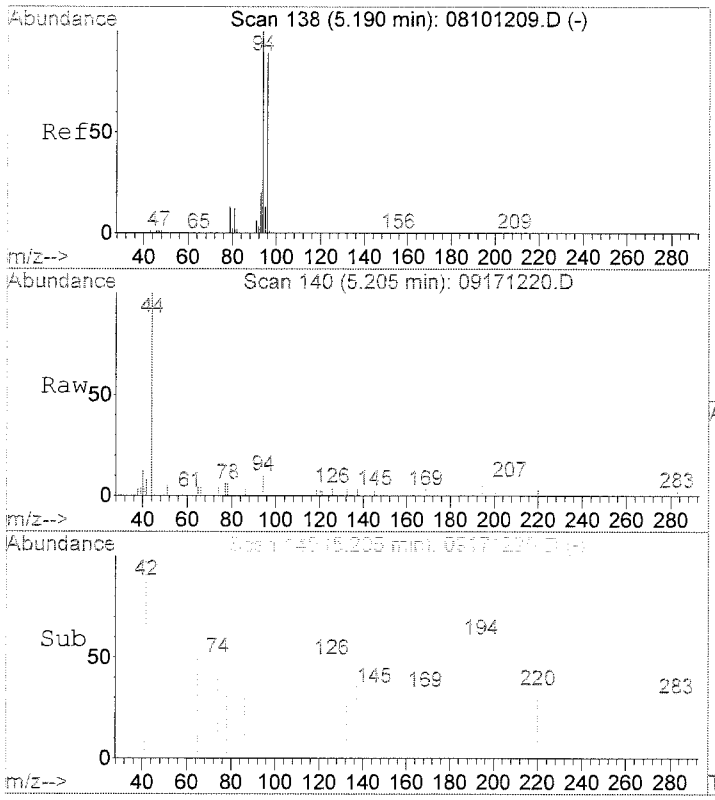


#8
1,3-Butadiene
Concen: 0.10 ug/L
RT: 4.82 min Scan# 101
Delta R.T. 0.03 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 54 Resp: 454

Ion	Ratio	Lower	Upper
54	100		
39	297.6	86.0	129.0#
53	50.2	56.2	84.4#

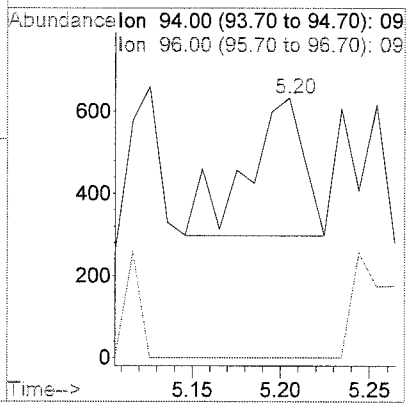


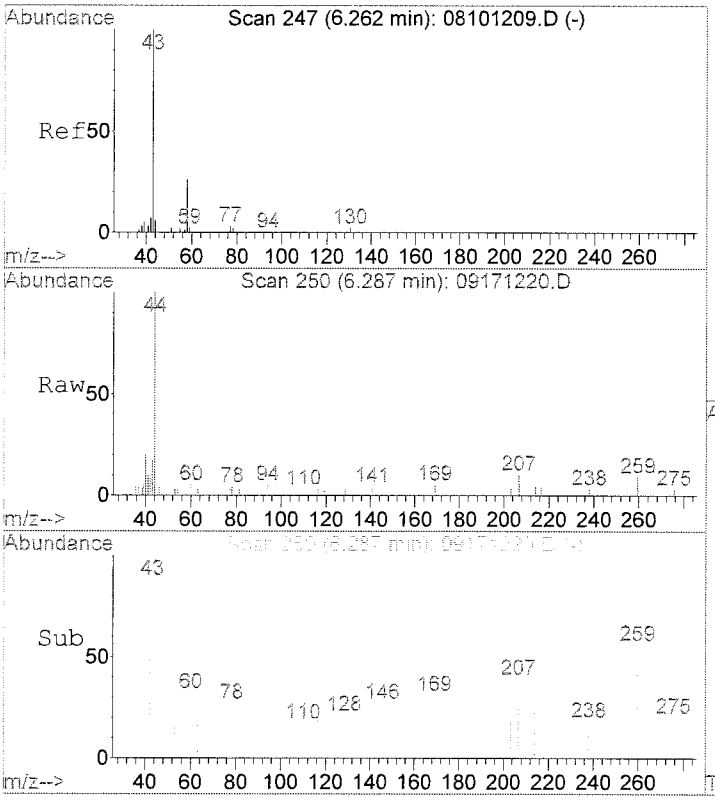


#9
Bromomethane
Concen: 0.15 ug/L
RT: 5.20 min Scan# 140
Delta R.T. 0.02 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 94 Resp: 750

Ion	Ratio	Lower	Upper
94	100		
96	84.4	75.8	113.6

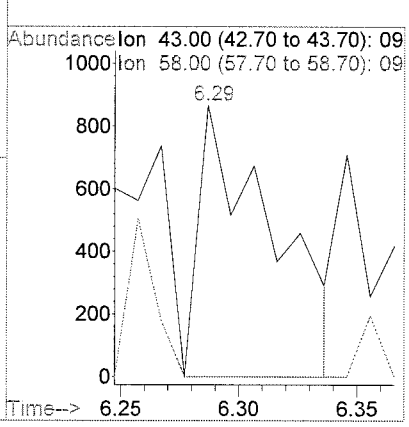


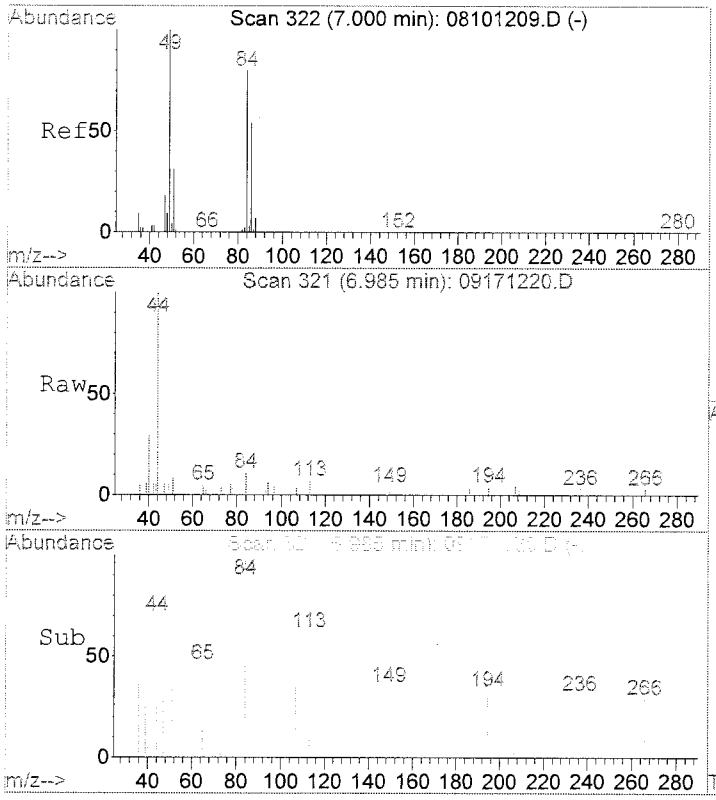


#12
Acetone
Concen: 1.79 ug/L
RT: 6.29 min Scan# 250
Delta R.T. 0.02 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 43 Resp: 1871

Ion	Ratio	Lower	Upper
43	100		
58	21.6	25.9	38.9#

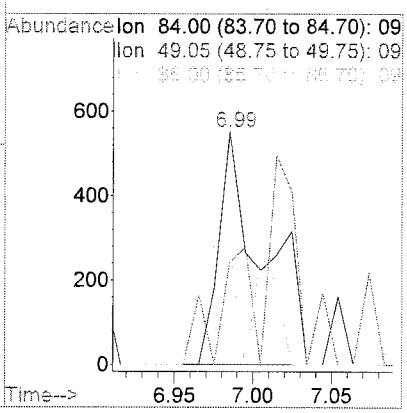


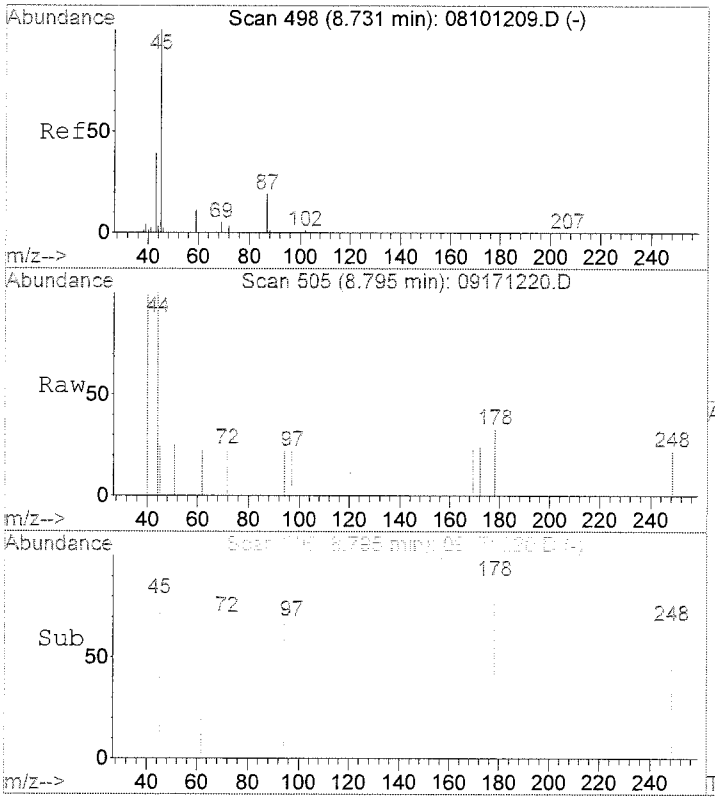


#15
Methylene Chloride
Concen: 0.24 ug/L
RT: 6.99 min Scan# 321
Delta R.T. -0.01 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 84 Resp: 1061

Ion	Ratio	Lower	Upper
84	100		
49	0.0	103.4	155.0#
86	41.8	52.0	78.0#

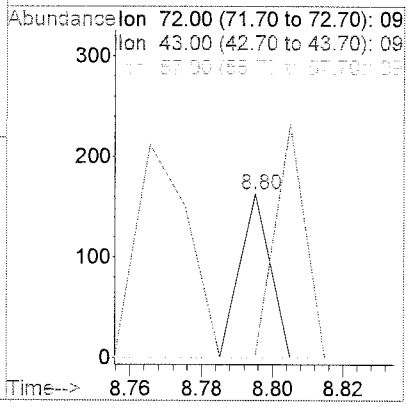


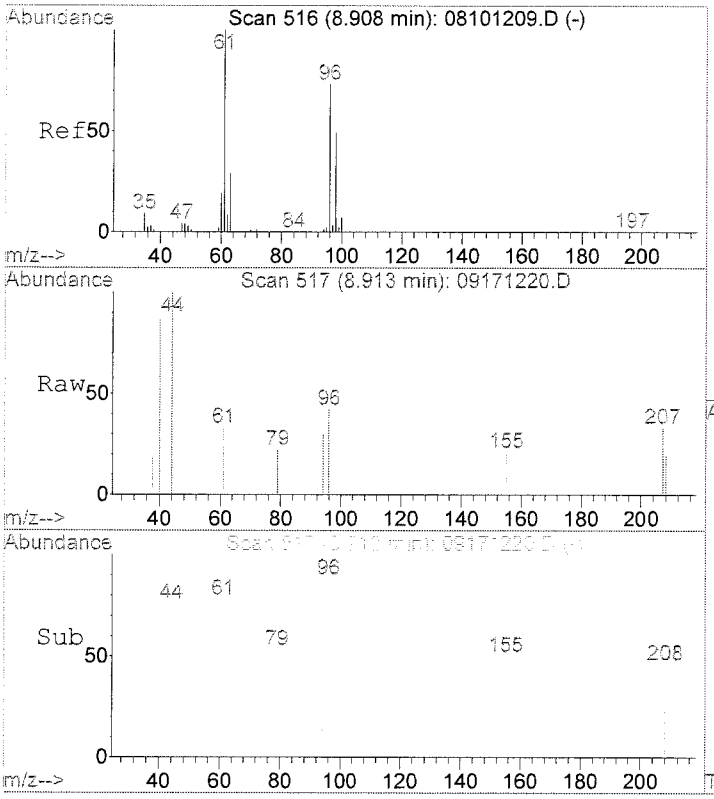


#23
2-Butanone (MEK)
Concen: 0.27 ug/L
RT: 8.80 min Scan# 505
Delta R.T. 0.06 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 72 Resp: 96

Ion	Ratio	Lower	Upper
72	100		
43	0.0	1366.5	2049.7#
57	0.0	0.0	0.0

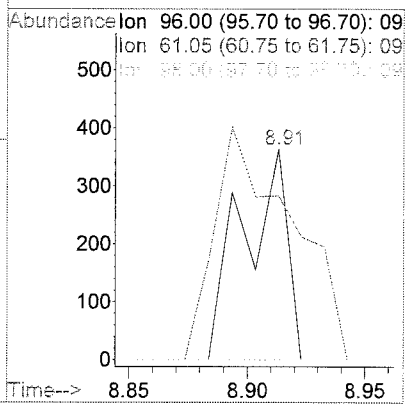


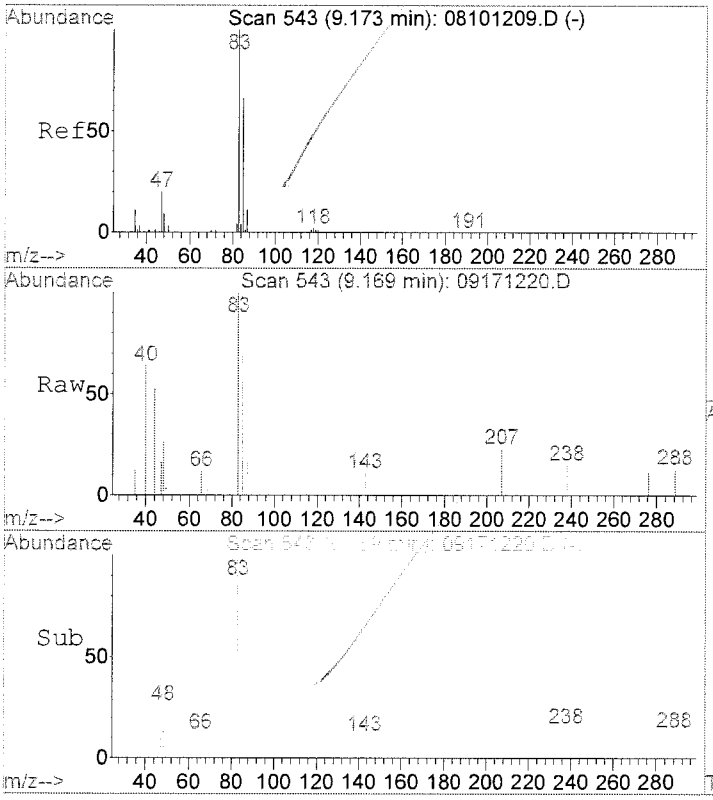


#25
cis-1,2-Dichloroethene
Concen: 0.09 ug/L
RT: 8.91 min Scan# 517
Delta R.T. 0.01 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 96 Resp: 476

Ion	Ratio	Lower	Upper
96	100		
61	191.6	103.2	154.8#
98	0.0	51.4	77.2#

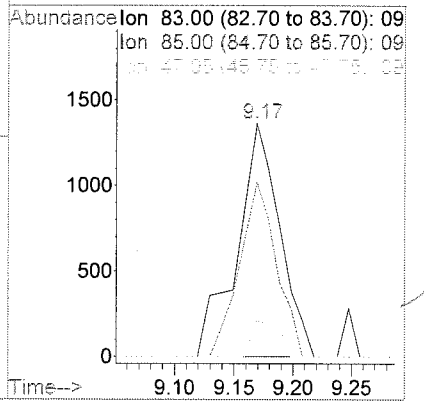


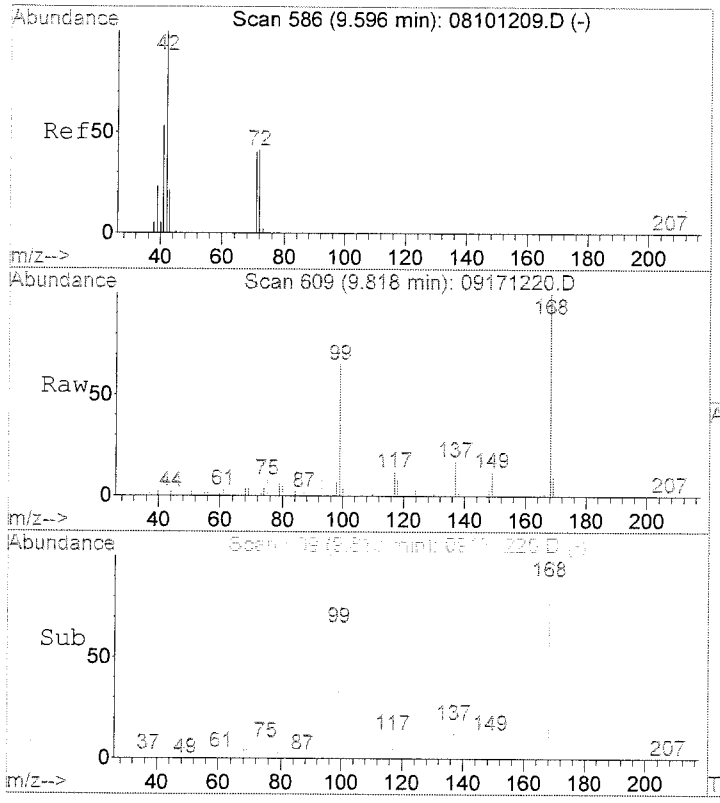


#27
Chloroform
Concen: 0.44 ug/L
RT: 9.17 min Scan# 543
Delta R.T. -0.00 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 83 Resp: 3433

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4
47	9.8	18.9	28.3#

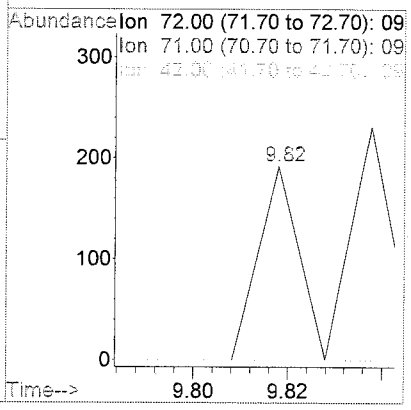


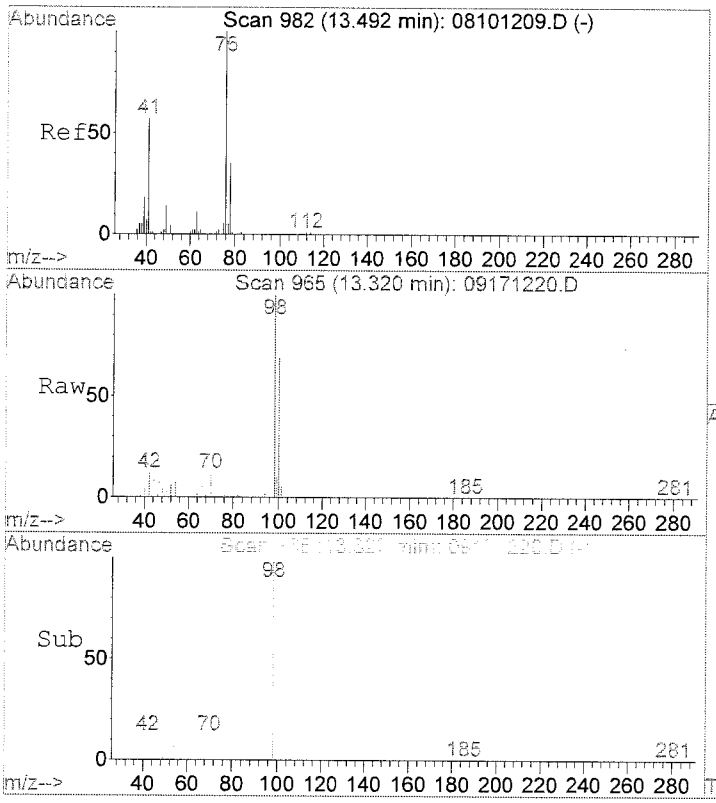


#31
Tetrahydrofuran
Concen: 0.35 ug/L
RT: 9.82 min Scan# 609
Delta R.T. 0.22 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 72 Resp: 113

Ion	Ratio	Lower	Upper
72	100		
71	123.0	79.1	118.7#
42	101.8	217.1	325.7#

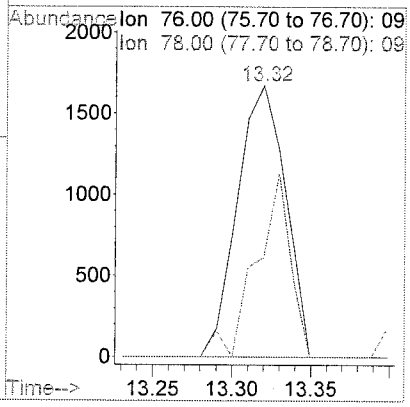


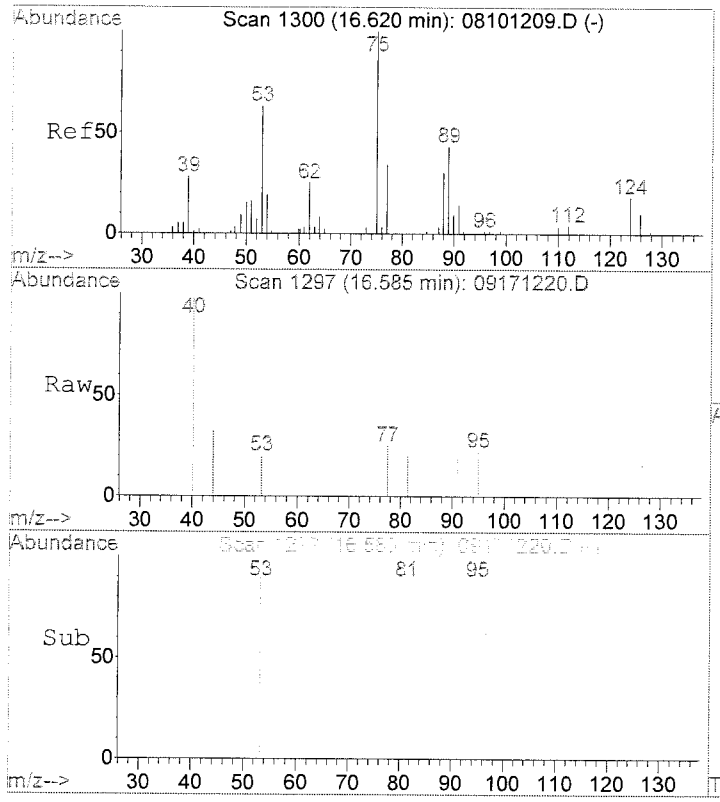


#51
1,3-Dichloropropane
Concen: 0.78 ug/L
RT: 13.32 min Scan# 965
Delta R.T. -0.17 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 76 Resp: 3548

Ion	Ratio	Lower	Upper
76	100		
78	48.1	26.1	39.1#

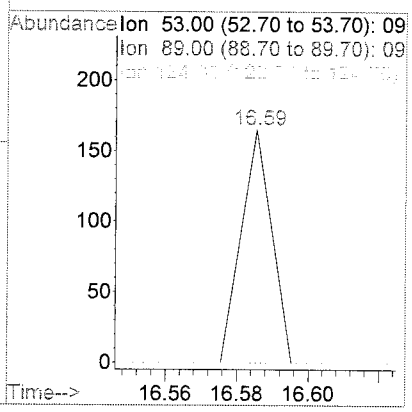


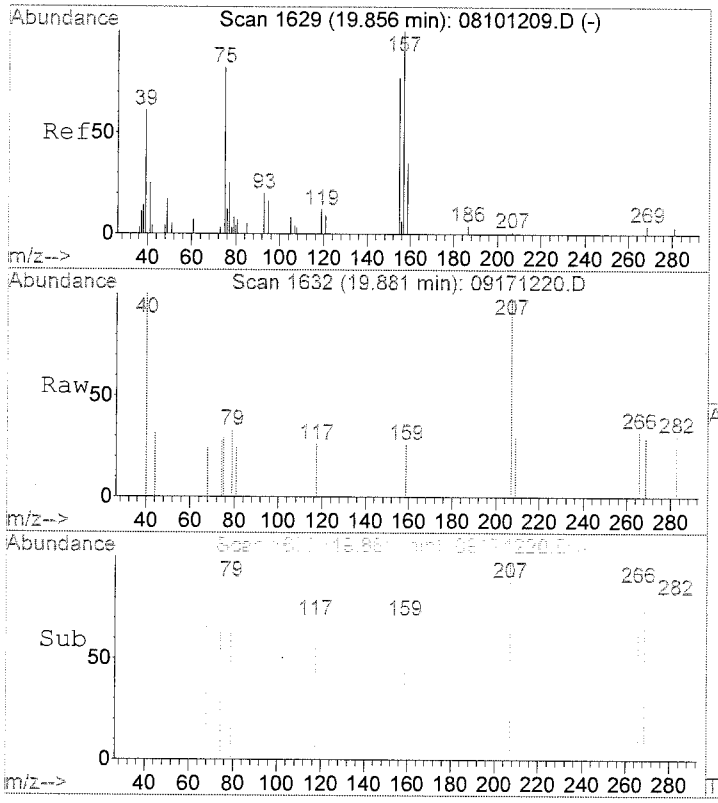


#67
trans-1,4-Dichloro-2-butene
Concen: 1.17 ug/L
RT: 16.59 min Scan# 1297
Delta R.T. -0.03 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 53 Resp: 97

Ion	Ratio	Lower	Upper
53	100		
89	99.0	50.5	75.7#
124	0.0	21.8	32.8#

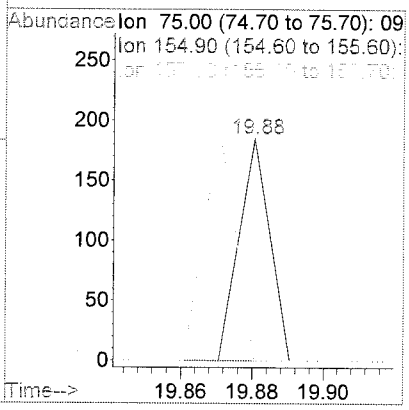




#82
1,2-Dibromo-3-chloropropane
Concen: 0.59 ug/L
RT: 19.88 min Scan# 1632
Delta R.T. 0.03 min
Lab File: 09171220.D
Acq: 17 Sep 2012 2:40 pm

Tgt Ion: 75 Resp: 109

Ion	Ratio	Lower	Upper
75	100		
155	0.0	82.6	124.0#
157	105.5	110.1	165.1#



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

STANDARD PREPARATION LOGS

METHOD: 8260

Analytical Standard Record

TestAmerica Phoenix

PV04717

Description:	8260 50ppm SS	Expires:	08/14/12
Standard Type:	Analyte Spike	Prepared:	08/02/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/02/12 05:25 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04717

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU07320	SS 54 Compounds (O2SI)	07/18/12	Melissa Spencer	12/18/12	07/18/12 06:31 by MNM	0.05
PU07325	8260 Gases O2SI	07/31/12	Kaycee Halla	08/14/12	07/31/12 13:23 by KH	0.05
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV01265	2-Chloroethyl vinyl ether	07/23/12	Lauren Mayes	01/23/13	07/23/12 14:22 by LMM	0.05
PV02578	SS Custom 8260 VOC Mix	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:29 by MNM	0.05
PV04410	O2SI Additions	07/20/12	** Vendor **	08/20/12	07/27/12 17:09 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Description:	SS 54 Compounds (O2SI)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Melissa Spencer
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:31 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07320

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU07325

Description:	8260 Gases O2SI	Expires:	08/14/12
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:23 by KH

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01265

Description:	2-Chloroethyl vinyl ether	Expires:	01/23/13
Standard Type:	Other	Prepared:	07/23/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/23/12 14:22 by LMM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02578

Description:	SS Custom 8260 VOC Mix	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:29 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04410

Description:	O2SI Additions	Expires:	08/20/12
Standard Type:	Other	Prepared:	07/20/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/27/12 17:09 by ExH

Catalog # 120561-01
Vial cracked: changed expiration/prep date ExH 07/27/12

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04303

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	08/17/12
Standard Type:	Analyte Spike	Prepared:	07/17/12
Solvent:	MEOH/117046	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03429	tert-butyl alcohol	06/07/12	Lauren Mayes	12/19/12	06/19/12 15:31 by LMM	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03429

Description:	tert-butyl alcohol	Expires:	12/19/12
Standard Type:	Other	Prepared:	06/07/12
Solvent:	MeOH	Prepared By:	Lauren Mayes
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 15:31 by LMM

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Description:	8260 2.5 ppm CCV Standard	Expires:	08/15/12
Standard Type:	Calibration Stan	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	2.5	ppm
2-Butanone	78-93-3	2.5	ppm
2-Butanone (MEK)	78-93-3	2.5	ppm
2-Chloroethyl vinyl ether	110-75-8	2.5	ppm
2-Chlorotoluene	95-49-8	2.5	ppm
2-Hexanone	591-78-6	2.5	ppm
4-Chlorotoluene	106-43-4	2.5	ppm
4-Isopropyltoluene	99-87-6	2.5	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2.5	ppm
1,1,1,2-Tetrachloroethane	630-20-6	2.5	ppm
Benzene	71-43-2	2.5	ppm
1,3-Dichloropropane	142-28-9	2.5	ppm
Bromochloromethane	74-97-5	2.5	ppm
Bromodichloromethane	75-27-4	2.5	ppm
Bromoform	75-25-2	2.5	ppm
Bromomethane	74-83-9	2.5	ppm
Carbon disulfide	75-15-0	2.5	ppm
Carbon tetrachloride	56-23-5	2.5	ppm
Chlorobenzene	108-90-7	2.5	ppm
Chloroethane	75-00-3	2.5	ppm
Acetone	67-64-1	2.5	ppm
1,2-Dibromo-3-chloropropane	96-12-8	2.5	ppm
1,1,1-Trichloroethane	71-55-6	2.5	ppm
1,1,2,2-Tetrachloroethane	79-34-5	2.5	ppm
1,1,2-Trichloroethane	79-00-5	2.5	ppm
1,1-Dichloroethane	75-34-3	2.5	ppm
1,1-Dichloroethene	75-35-4	2.5	ppm
1,1-Dichloropropene	563-58-6	2.5	ppm
1,2,3-Trichlorobenzene	87-61-6	2.5	ppm
1,2,3-Trichloropropane	96-18-4	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

2,2-Dichloropropane	594-20-7	2.5	ppm
1,2,4-Trimethylbenzene	95-63-6	2.5	ppm
1,4-Dichlorobenzene	106-46-7	2.5	ppm
1,2-Dibromoethane	106-93-4	2.5	ppm
1,2-Dibromoethane (EDB)	106-93-4	2.5	ppm
1,2-Dichlorobenzene	95-50-1	2.5	ppm
1,2-Dichloroethane	107-06-2	2.5	ppm
1,2-Dichloropropane	78-87-5	2.5	ppm
1,3,5-Trimethylbenzene	108-67-8	2.5	ppm
1,3-Butadiene	106-99-0	2.5	ppm
1,3-Dichlorobenzene	541-73-1	2.5	ppm
cis-1,2-Dichloroethene	156-59-2	2.5	ppm
1,2,4-Trichlorobenzene	120-82-1	2.5	ppm
Tetrachloroethene	127-18-4	2.5	ppm
Chloroform	67-66-3	2.5	ppm
Naphthalene	91-20-3	2.5	ppm
o-Xylene	95-47-6	2.5	ppm
p-Isopropyltoluene	99-87-6	2.5	ppm
p-Xylene	106-42-3	2.5	ppm
sec-Butylbenzene	135-98-8	2.5	ppm
Styrene	100-42-5	2.5	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	2.5	ppm
n-Hexane	110-54-3	2.5	ppm
tert-Butylbenzene	98-06-6	2.5	ppm
n-Butylbenzene	104-51-8	2.5	ppm
Tetrahydrofuran	109-99-9	2.5	ppm
Toluene	108-88-3	2.5	ppm
trans-1,2-Dichloroethene	156-60-5	2.5	ppm
trans-1,3-Dichloropropene	10061-02-6	2.5	ppm
trans-1,4-Dichloro-2-butene	110-57-6	2.5	ppm
Trichloroethene	79-01-6	2.5	ppm
Trichlorofluoromethane	75-69-4	2.5	ppm
Vinyl Acetate	108-05-4	2.5	ppm
Vinyl chloride	75-01-4	2.5	ppm
tert-Butyl ethyl ether	637-92-3	2.5	ppm
Iodomethane	4227-95-6	2.5	ppm
Xylenes, Total	1330-20-7	5	ppm
cis-1,3-Dichloropropene	10061-01-5	2.5	ppm
Di-isopropyl Ether (DIPE)	108-20-3	2.5	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04888

Dibromochloromethane	124-48-1	2.5	ppm
Dibromomethane	74-95-3	2.5	ppm
Dichlorodifluoromethane	75-71-8	2.5	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2.5	ppm
Ethylbenzene	100-41-4	2.5	ppm
n-Propylbenzene	103-65-1	2.5	ppm
Hexachlorobutadiene	87-68-3	2.5	ppm
Chloromethane	74-87-3	2.5	ppm
Isopropylbenzene	98-82-8	2.5	ppm
m,p-Xylenes	179601-23-1	2.5	ppm
m-Xylene - Front	108-38-3	2.5	ppm
Methyl Ethyl Ketone	78-93-3	2.5	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2.5	ppm
Methyl tert-Butyl Ether	1634-04-4	2.5	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2.5	ppm
Methylene Chloride	75-09-2	2.5	ppm
MTBE	1634-04-4	2.5	ppm
Freon 113	76-13-1	2.5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04887	8260 50 ppm CCV (No Surr.)	08/10/12	Marbella Mazza	08/15/12	08/22/12 05:32 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Description:	8260 50 ppm CCV (No Surr.)	Expires:	08/15/12
Standard Type:	Analyte Spike	Prepared:	08/10/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

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TestAmerica Phoenix

PV04887

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04887

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU03588	PS Custom 8260 Mix	06/14/12	Marbella Mazza	11/14/12	06/19/12 09:59 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PU05931	PS 54 Compounds 502/524 (Absolu	06/25/12	Marbella Mazza	11/25/12	08/22/12 05:32 by KH	0.05
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04452	Crescent Gases	08/08/12	Kaycee Halla	08/15/12	08/08/12 15:53 by KH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03588

Description:	PS Custom 8260 Mix	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/19/12 09:59 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Description:	PS 54 Compounds 502/524 (Absolute)	Expires:	11/25/12
Standard Type:	Other	Prepared:	06/25/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/22/12 05:32 by KH

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05931

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04452

Description:	Crescent Gases	Expires:	08/15/12
Standard Type:	Other	Prepared:	08/08/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/08/12 15:53 by KH

8260 Gases Primary Source Crescent Catalog CC2006.10

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04792

Description:	50ppm EtOH/25ppmTBA/5ppm Surr	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/13/12 12:38 by KH

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	5	ppm
Tert-Butanol (TBA)	75-65-0	25	ppm
t-Butanol (TBA)	75-65-0	25	ppm
Ethanol	64-17-5	50	ppm
Dibromofluoromethane	1868-53-7	5	ppm
4-Bromofluorobenzene	460-00-4	5	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV04791	PS EtOH/TBA + SURR	08/07/12	Marbella Mazza	09/07/12	08/07/12 12:35 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04791

Description:	PS EtOH/TBA + SURR	Expires:	09/07/12
Standard Type:	Calibration Stan	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 12:35 by MNM

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04795

Description:	50 ppm IS/400ppm TBAd9	Expires:	09/07/12
Standard Type:	Reference Mate	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

IS for 2,4.7.

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04794

Description:	8260/624 IS/Surrogate	Expires:	09/07/12
Standard Type:	Surrogate Spike	Prepared:	08/07/12
Solvent:	MeOH/117046	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:47 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV03435	8260 Internal standard	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:17 by MNM	0.05
PV03648	8260 Surrogates	07/31/12	Kaycee Halla	01/31/13	07/31/12 13:24 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03435

Description:	8260 Internal standard	Expires:	12/28/12
Standard Type:	Internal Standar	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:17 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03648

Description:	8260 Surrogates	Expires:	01/31/13
Standard Type:	Other	Prepared:	07/31/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/31/12 13:24 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04559

Description:	25 ppm 4-BFB	Expires:	08/26/12
Standard Type:	MS Tune Soluti	Prepared:	07/26/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/26/12 07:48 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Description:	8260 50ppm SS	Expires:	09/25/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 05:21 by MNM

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
Chloromethane	74-87-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
2,2-Dichloropropane	594-20-7	50	ppm
Benzene	71-43-2	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

1,2,3-Trichloropropane	96-18-4	50	ppm
2-Butanone	78-93-3	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05577

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
Freon 113	76-13-1	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV00848	SS 1,3-Butadiene (2000ug/mL)	07/18/12	Marbella Mazza	12/18/12	07/18/12 06:30 by MNM	0.05
PV03425	2-Chloroethyl vinyl ether	09/11/12	Marbella Mazza	01/11/13	09/11/12 13:31 by MNM	0.05
PV04409	O2SI Additions	09/11/12	Marbella Mazza	10/07/12	09/11/12 13:34 by MNM	0.05
PV04431	8260 Gases O2SI	09/11/12	Marbella Mazza	09/25/12	09/11/12 13:32 by MNM	0.05
PV04684	SS 54 Compounds (O2SI)	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:33 by MNM	0.05
PV05262	SS Custom 8260 VOC Mix	09/11/12	Marbella Mazza	02/11/13	09/11/12 13:35 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV00848

Description:	SS 1,3-Butadiene (2000ug/mL)	Expires:	12/18/12
Standard Type:	Other	Prepared:	07/18/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/18/12 06:30 by MNM

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03425

Description:	2-Chloroethyl vinyl ether	Expires:	01/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:31 by MNM

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04409

Description:	O2SI Additions	Expires:	10/07/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:34 by MNM

Catalog # 120561-01

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04431

Description:	8260 Gases O2SI	Expires:	09/25/12
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:32 by MNM

o2si catalog no. 120016-03

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Description:	SS 54 Compounds (O2SI)	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:33 by MNM

o2si catalog # 120023-04

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04684

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05262

Description:	SS Custom 8260 VOC Mix	Expires:	02/11/13
Standard Type:	Other	Prepared:	09/11/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/11/12 13:35 by MNM

Cat#122848-02

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05606

Description:	500ppm Ethanol/250ppm TBA SS	Expires:	10/12/12
Standard Type:	Analyte Spike	Prepared:	09/12/12
Solvent:	MEOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/12/12 15:45 by ExH

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU05457	SS Ethanol 20000ppm	07/17/12	** Vendor **	01/17/13	07/17/12 12:39 by ExH	0.05
PV03432	SS tert-butyl alcohol	08/06/12	Kaycee Halla	02/06/14	08/06/12 15:37 by KH	0.25

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU05457

Description:	SS Ethanol 20000ppm	Expires:	01/17/13
Standard Type:	Other	Prepared:	07/17/12
Solvent:	MEOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/17/12 12:39 by ExH

Description: Ethanol, 20000ppm
CAT# 020202-02-SS
Vial Opened: changed expiration/prep date ExH 07/17/12

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03432

Description:	SS tert-butyl alcohol	Expires:	02/06/14
Standard Type:	Other	Prepared:	08/06/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/06/12 15:37 by KH

o2si catalog No. 020511-03

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05431

Description:	PS EtOH/TBA + SURR	Expires:	10/05/12
Standard Type:	Calibration Stan	Prepared:	09/05/12
Solvent:	MeOH/117046	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Calibration/CCV Standard

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ppm
Tert-Butanol (TBA)	75-65-0	250	ppm
t-Butanol (TBA)	75-65-0	250	ppm
Ethanol	64-17-5	500	ppm
Dibromofluoromethane	1868-53-7	50	ppm
4-Bromofluorobenzene	460-00-4	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PT03902	Ethanol 20000ppm (Absolute)	05/09/12	Jing Hu	11/09/12	05/09/12 11:07 by J H	0.05
PV02144	Crescent TBA	08/07/12	Marbella Mazza	01/07/13	08/07/12 07:16 by MNM	0.25
PV03646	8260 Surrogates	09/05/12	Marbella Mazza	03/05/14	09/05/12 05:49 by KH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PT03902

Description:	Ethanol 20000ppm (Absolute)	Expires:	11/09/12
Standard Type:	Other	Prepared:	05/09/12
Solvent:	MEOH	Prepared By:	Jing Hu
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/09/12 11:07 by J H

Description: Ethanol, 20000ppm
Part# 90572

Analyte	CAS Number	Concentration	Units
Ethanol	64-17-5	20000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02144

Description:	Crescent TBA	Expires:	01/07/13
Standard Type:	Other	Prepared:	08/07/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/07/12 07:16 by MNM

Analyte	CAS Number	Concentration	Units
Tert-Butanol (TBA)	75-65-0	2000	ppm
t-Butanol (TBA)	75-65-0	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03646

Description:	8260 Surrogates	Expires:	03/05/14
Standard Type:	Other	Prepared:	09/05/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/05/12 05:49 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05519

Description:	50 ppm IS/400ppm TBAd9	Expires:	10/10/12
Standard Type:	Reference Mate	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Kaycee Halla
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 15:14 by KH

Analyte	CAS Number	Concentration	Units	SRM Control Limits
TBA-d9		400	ppm	0-200
Pentafluorobenzene	363-72-4	50	ppm	0-200
Chlorobenzene-d5	3114-55-4	50	ppm	0-200
1,4-Difluorobenzene	540-36-3	50	ppm	0-200
1,4-Dichlorobenzene d4	3855-82-1	50	ppm	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.02
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05503

Description:	8260/624 IS/Surrogate	Expires:	10/10/12
Standard Type:	Surrogate Spike	Prepared:	09/10/12
Solvent:	MeOH/123279	Prepared By:	Marbella Mazza
Final Volume (mls):	4	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/10/12 06:13 by MNM

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	50	ug/mL
TBA-d9		400	ug/mL
Pentafluorobenzene	363-72-4	50	ug/mL
Dibromofluoromethane	1868-53-7	50	ug/mL
Chlorobenzene-d5	3114-55-4	50	ug/mL
4-Bromofluorobenzene	460-00-4	50	ug/mL
1,4-Difluorobenzene	540-36-3	50	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	50	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PV01390	Tert-Butanol-d9, 40000 ppm	07/28/12	Marbella Mazza	12/28/12	07/28/12 06:19 by MNM	0.04
PV03645	8260 Surrogates	08/28/12	Kaycee Halla	02/28/13	08/28/12 08:31 by KH	0.1
PV04965	8260 Internal standard	08/21/12	Marbella Mazza	01/21/13	08/21/12 05:37 by MNM	0.1

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV01390

Description:	Tert-Butanol-d9, 40000 ppm	Expires:	12/28/12
Standard Type:	Other	Prepared:	07/28/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	07/28/12 06:19 by MNM

Description: Tert-Butyl Alcohol-d9, 40000 mg/L
Catalog #: 020652-01

Analyte	CAS Number	Concentration	Units
TBA-d9		40000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV03645

Description:	8260 Surrogates	Expires:	02/28/13
Standard Type:	Other	Prepared:	08/28/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/28/12 08:31 by KH

Part # STM-330N
Opened ampuole, changed prepared date and expiration date; added opened date - LM 06/01/12

Analyte	CAS Number	Concentration	Units
Toluene-d8	2037-26-5	2000	ug/mL
Dibromofluoromethane	1868-53-7	2000	ug/mL
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04965

Description:	8260 Internal standard	Expires:	01/21/13
Standard Type:	Internal Standar	Prepared:	08/21/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/21/12 05:37 by MNM

Ultra Catalog No. STM-341N

Analyte	CAS Number	Concentration	Units
Pentafluorobenzene	363-72-4	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
1,4-Dichlorobenzene d4	3855-82-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05230

Description:	25 ppm 4-BFB	Expires:	09/27/12
Standard Type:	MS Tune Soluti	Prepared:	08/27/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/27/12 04:18 by MNM

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU00032	4-Bromofluorobenzene	05/08/12	Marbella Mazza	11/08/12	05/08/12 06:37 by MNM	0.025

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU00032

Description:	4-Bromofluorobenzene	Expires:	11/08/12
Standard Type:	Other	Prepared:	05/08/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	05/08/12 06:37 by MNM

Catalog # STS-110N-1

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

Description:	8260 50 ppm CCV (No Surr.)	Expires:	09/20/12
Standard Type:	Analyte Spike	Prepared:	09/13/12
Solvent:	MeOH/123279	Prepared By:	Erica Haddow
Final Volume (mls):	2	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/13/12 14:41 by ExH

8260/524 CCV Standard w/ No Surrogates

Analyte	CAS Number	Concentration	Units
Bromobenzene	108-86-1	50	ppm
2-Butanone	78-93-3	50	ppm
2-Butanone (MEK)	78-93-3	50	ppm
2-Chloroethyl vinyl ether	110-75-8	50	ppm
2-Chlorotoluene	95-49-8	50	ppm
2-Hexanone	591-78-6	50	ppm
4-Chlorotoluene	106-43-4	50	ppm
4-Isopropyltoluene	99-87-6	50	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	50	ppm
1,1,1,2-Tetrachloroethane	630-20-6	50	ppm
Benzene	71-43-2	50	ppm
1,3-Dichloropropane	142-28-9	50	ppm
Bromochloromethane	74-97-5	50	ppm
Bromodichloromethane	75-27-4	50	ppm
Bromoform	75-25-2	50	ppm
Bromomethane	74-83-9	50	ppm
Carbon disulfide	75-15-0	50	ppm
Carbon tetrachloride	56-23-5	50	ppm
Chlorobenzene	108-90-7	50	ppm
Chloroethane	75-00-3	50	ppm
Acetone	67-64-1	50	ppm
1,2-Dibromo-3-chloropropane	96-12-8	50	ppm
1,1,1-Trichloroethane	71-55-6	50	ppm
1,1,2,2-Tetrachloroethane	79-34-5	50	ppm
1,1,2-Trichloroethane	79-00-5	50	ppm
1,1-Dichloroethane	75-34-3	50	ppm
1,1-Dichloroethene	75-35-4	50	ppm
1,1-Dichloropropene	563-58-6	50	ppm
1,2,3-Trichlorobenzene	87-61-6	50	ppm
1,2,3-Trichloropropane	96-18-4	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

2,2-Dichloropropane	594-20-7	50	ppm
1,2,4-Trimethylbenzene	95-63-6	50	ppm
1,4-Dichlorobenzene	106-46-7	50	ppm
1,2-Dibromoethane	106-93-4	50	ppm
1,2-Dibromoethane (EDB)	106-93-4	50	ppm
1,2-Dichlorobenzene	95-50-1	50	ppm
1,2-Dichloroethane	107-06-2	50	ppm
1,2-Dichloropropane	78-87-5	50	ppm
1,3,5-Trimethylbenzene	108-67-8	50	ppm
1,3-Butadiene	106-99-0	50	ppm
1,3-Dichlorobenzene	541-73-1	50	ppm
cis-1,2-Dichloroethene	156-59-2	50	ppm
1,2,4-Trichlorobenzene	120-82-1	50	ppm
Tetrachloroethene	127-18-4	50	ppm
Chloroform	67-66-3	50	ppm
Naphthalene	91-20-3	50	ppm
o-Xylene	95-47-6	50	ppm
p-Isopropyltoluene	99-87-6	50	ppm
p-Xylene	106-42-3	50	ppm
sec-Butylbenzene	135-98-8	50	ppm
Styrene	100-42-5	50	ppm
tert-Amyl Methyl Ether (TAME)	994-05-8	50	ppm
n-Hexane	110-54-3	50	ppm
tert-Butylbenzene	98-06-6	50	ppm
n-Butylbenzene	104-51-8	50	ppm
Tetrahydrofuran	109-99-9	50	ppm
Toluene	108-88-3	50	ppm
trans-1,2-Dichloroethene	156-60-5	50	ppm
trans-1,3-Dichloropropene	10061-02-6	50	ppm
trans-1,4-Dichloro-2-butene	110-57-6	50	ppm
Trichloroethene	79-01-6	50	ppm
Trichlorofluoromethane	75-69-4	50	ppm
Vinyl Acetate	108-05-4	50	ppm
Vinyl chloride	75-01-4	50	ppm
tert-Butyl ethyl ether	637-92-3	50	ppm
Iodomethane	4227-95-6	50	ppm
Xylenes, Total	1330-20-7	100	ppm
cis-1,3-Dichloropropene	10061-01-5	50	ppm
Di-isopropyl Ether (DIPE)	108-20-3	50	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05635

Dibromochloromethane	124-48-1	50	ppm
Dibromomethane	74-95-3	50	ppm
Dichlorodifluoromethane	75-71-8	50	ppm
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	50	ppm
Ethylbenzene	100-41-4	50	ppm
n-Propylbenzene	103-65-1	50	ppm
Hexachlorobutadiene	87-68-3	50	ppm
Chloromethane	74-87-3	50	ppm
Isopropylbenzene	98-82-8	50	ppm
m,p-Xylenes	179601-23-1	50	ppm
m-Xylene - Front	108-38-3	50	ppm
Methyl Ethyl Ketone	78-93-3	50	ppm
Methyl Ethyl Ketone (MEK)	78-93-3	50	ppm
Methyl tert-Butyl Ether	1634-04-4	50	ppm
Methyl-tert-butyl Ether (MTBE)	1634-04-4	50	ppm
Methylene Chloride	75-09-2	50	ppm
MTBE	1634-04-4	50	ppm
Freon 113	76-13-1	50	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
PU02260	PS 54 Compounds (Absolute)	08/31/12	Marbella Mazza	02/13/13	08/31/12 04:27 by MNM	0.05
PU03586	PS Custom 8260 Mix	08/14/12	Kaycee Halla	02/14/13	08/16/12 08:04 by KH	0.05
PU03861	2-Chloroethyl vinyl ether	06/14/12	Marbella Mazza	11/14/12	06/14/12 06:18 by MNM	0.02
PV02168	PS 1,3-Butadiene	08/03/12	** Vendor **	02/03/13	08/03/12 13:09 by ExH	0.05
PV04644	Crescent Vinyl acetate	08/01/12	Marbella Mazza	11/01/12	08/01/12 05:42 by MNM	0.05
PV04645	Restek Additions (w/o V.A.)	08/01/12	Marbella Mazza	01/01/13	08/01/12 05:53 by MNM	0.05
PV05002	Crescent Gases	09/13/12	Erica Haddow	09/20/12	09/13/12 14:30 by ExH	0.05

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Description:	PS 54 Compounds (Absolute)	Expires:	02/13/13
Standard Type:	Other	Prepared:	08/31/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/31/12 04:27 by MNM

Analyte	CAS Number	Concentration	Units
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
4-Isopropyltoluene	99-87-6	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
1,2-Dibromoethane	106-93-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,1-Dichloroethene	75-35-4	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU02260

Trichloroethene	79-01-6	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
p-Xylene	106-42-3	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
Xylenes, Total	1330-20-7	4000	ug/mL
m-Xylene - Front	108-38-3	2000	ug/mL
m,p-Xylenes	179601-23-1	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Dibromochloromethane	124-48-1	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Carbon tetrachloride	56-23-5	2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03586

Description:	PS Custom 8260 Mix	Expires:	02/14/13
Standard Type:	Other	Prepared:	08/14/12
Solvent:	MeOH	Prepared By:	Kaycee Halla
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/16/12 08:04 by KH

part#96419

Analyte	CAS Number	Concentration	Units
trans-1,4-Dichloro-2-butene	110-57-6	2000	ug/mL
Tetrahydrofuran	109-99-9	2000	ug/mL
tert-Butyl ethyl ether	637-92-3	2000	ug/mL
tert-Amyl Methyl Ether (TAME)	994-05-8	2000	ug/mL
n-Hexane	110-54-3	2000	ug/mL
MTBE	1634-04-4	2000	ug/mL
Methyl-tert-butyl Ether (MTBE)	1634-04-4	2000	ug/mL
Methyl tert-Butyl Ether	1634-04-4	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Ethyl tertiary-Butyl Ether (ETBE)	637-92-3	2000	ug/mL
Di-isopropyl Ether (DIPE)	108-20-3	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PU03861

Description:	2-Chloroethyl vinyl ether	Expires:	11/14/12
Standard Type:	Other	Prepared:	06/14/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	06/14/12 06:18 by MNM

PRIMARY CEVE

Analyte	CAS Number	Concentration	Units
2-Chloroethyl vinyl ether	110-75-8	5000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV02168

Description:	PS 1,3-Butadiene	Expires:	02/03/13
Standard Type:	Other	Prepared:	08/03/12
Solvent:	MeOH	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/03/12 13:09 by ExH

Vial Opened: changed expiration/prep date ExH 08/03/12

Analyte	CAS Number	Concentration	Units
1,3-Butadiene	106-99-0	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04644

Description:	Crescent Vinyl acetate	Expires:	11/01/12
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:42 by MNM

Part # 3415M.20 - TP (pack of 3)

Analyte	CAS Number	Concentration	Units
Vinyl Acetate	108-05-4	2000	ug/mL

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV04645

Description:	Restek Additions (w/o V.A.)	Expires:	01/01/13
Standard Type:	Other	Prepared:	08/01/12
Solvent:	MeOH	Prepared By:	Marbella Mazza
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	08/01/12 05:53 by MNM

PART#558995
verified

Analyte	CAS Number	Concentration	Units
Methyl Ethyl Ketone (MEK)	78-93-3	2000	ppm
Methyl Ethyl Ketone	78-93-3	2000	ppm
Iodomethane	4227-95-6	2000	ppm
Carbon disulfide	75-15-0	2000	ppm
Acetone	67-64-1	2000	ppm
4-Methyl-2-pentanone (MIBK)	108-10-1	2000	ppm
2-Hexanone	591-78-6	2000	ppm
2-Butanone (MEK)	78-93-3	2000	ppm
2-Butanone	78-93-3	2000	ppm

Reviewed By Date

Analytical Standard Record

TestAmerica Phoenix

PV05002

Description:	Crescent Gases	Expires:	09/20/12
Standard Type:	Other	Prepared:	09/13/12
Solvent:	MeOH	Prepared By:	Erica Haddow
Final Volume (mls):	1	Department:	GCMS Volatiles
Vials:	1	Last Edit:	09/13/12 14:30 by ExH

8260 Gases Primary Source Crescent Catalog CC2006.10
Vial Opened: changed expiration/prep date ExH 09/13/12

Analyte	CAS Number	Concentration	Units
Vinyl chloride	75-01-4	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Bromomethane	74-83-9	2000	ug/mL

Reviewed By Date

APPENDIX C

IDW NONHAZARDOUS WASTE MANIFESTS

LIQUID ENVIRONMENTAL SOLUTIONS

liquid ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

03746

Profile Number

Generator Name	Name: APS Phone: ( )	**Generator Address**	Address: 501 S 2nd Ave City: Phoenix State: AZ Zip: 85003

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type ☐ Grease Trap ☐ Grit Trap ☐ Septic/Chemical Toilet ☐ Non-Industrial ☒ Industrial ☐ Special

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	Emilio	**Generator Rep. Signature**	[illegible]

Transporter Name	Name: L.E.S Phone: ( )	**Transporter Address**	Address: 3636 W Lower Buckeye City: Phoenix State: AZ Zip: 85009

Waste Removed (Gallons)	500	**Date**	**Time**
		3-8-12	10:23

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	Steve Crenshaw	**Driver Signature**	[illegible]

Disposal Facility		**Address**	
Waste Received (Gallons)		**Date**	**Time**
Facility Rep. Name (please print)		**Facility Rep. Signature**	

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

Liquid Environmental Solutions
11855 Sorrento Valley Road Suite C San Diego, CA 92121 (866) 694-7327 www.liquidenviro.com

LIQUID ENVIRONMENTAL SOLUTIONS

NON-HAZARDOUS WASTE MANIFEST

11676

Profile Number

Generator Name	**Name:** APS **Phone:** ( )	**Generator Address**	**Address:** 501 S. 2nd ave **City:** Phoenix **State:** AZ **Zip:**

Check with your state and local regulatory agencies for manifest retention requirements. NOTE: Many regulatory agencies require records to be kept on-site and available to review for up to 3 years.

Waste Type	☐ Grease Trap ☐ Grit Trap ☐ Septic/Chemical Toilet ☐ Non-Industrial ☐ Industrial ☐ Special ☐ Used Cooking Oil ☐ Recyclable Used Oil

I certify that the waste material removed from the above premises does not contain any radioactive, flammable, explosive, toxic or hazardous material ("Excluded Waste"). The term "hazardous material" is defined as any one or more pollutant, toxic substance, hazardous substance, solvent or oil as defined in or pusuant to the Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability Act, the Federal Clean Water Act, or any other federal, state or local environmental law, regulation, ordinance, or rule, whether existing as of the date of this agreement or subsequently enacted. I also acknowledge that the Generator shall be responsible for any costs incurred by the Transporter or Disposal Facility in handling or proper disposal of any hazardous waste and that the Generator expressly agrees to defend, indemnify and hold harmless the Transporter from and against any and all damages, costs, fines and liabilities resulting from or arising out of any such hazardous waste.

Generator Rep. Name (please print)	[illegible]	**Generator Rep. Signature**	[illegible]

Transporter Name	**Name:** Liquid Environmental Solutions **Phone:** ( )	**Transporter Address**	**Address:** 3630 W. Lower Buckeye rd. **City:** Phoenix **State:** AZ **Zip:** 85007

Waste Removed (Gallons)	2500	**Date** 09/11/12	**Time**

I certify that the information above is accurate, and that only the waste certified for removal by the Generator is contained in the servicing vehicle. I am aware that falsification of this manifest may result in prosecution.

Driver Name (please print)	George Goldley	**Driver Signature**	[illegible]

Disposal Facility	Liquid Environmental Solutions of Arizona	**Address**	5159 West Van Buren Street Phoenix, AZ 85043
Waste Received (Gallons)		**Date**	**Time**
Facility Rep. Name (please print)		**Facility Rep. Signature**	

WHITE - Generator Final Copy YELLOW - Liquid Environmental Solutions Copy GOLDENROD - Transporter Copy PINK - Generator 1st Copy

APPENDIX D

PERFORMANCE EVALUATION SAMPLE INFORMATION

ERA

A Waters Company

March 8, 2012

Laura Menken
AMEC Environmental & Infrastructure
4600 E. Washington St, ste 600
Phoenix, AZ 85034

Dear Laura:

Enclosed please find the certification documentation for the whole volume performance evaluation samples that you recently ordered. The samples were shipped on March 6, 2012 via FedEx Priority Overnight service to your attention. The ERA project number corresponding to these samples is 0221-12-03.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance please do not hesitate to call.

Sincerely,

Chad Lane
Chemist

enclosures
cl

ERA

A Waters Company

ERA, A Waters Company

Sample Identification and Chain of Custody Form

Ship to: AMEC E & I 1405 W Auto Drive Tempe, AZ 85284-1016 **Phone:** 480-940-2320 **Fax:** 480-785-0970 **Attention:** Laura Menken	**Ship from:** ERA, A Waters Company 16341 Table Mountain Parkway Golden, CO 80403 **Phone:** 800-372-0122 or 303-431-8454 **Fax:** 303-421-0159 **Contact:** Chad Lane

Sample Description	Sample Identification	Sample Date	Sample Type	# of Containers	Preservative
Volatiles	0221-12-03	3/6/2012	Aqueous	3 x 40 ml	HCl

		Condition of Contents
Relinquished by: Chad	Date/Time: 3-6-12 1600	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

COPY

ERA

A Waters Company

AMEC Environmental & Infrastructure

Account No. A796023

Catalog No. 093 Custom Standard **Sample ID # 0221-12-03**

Volatiles by 8260B

Parameter	Certified Value (µg/L)	Performance Acceptance Limits™ (µg/L)
Carbon tetrachloride	6.43	4.13 - 8.01
Tetrachloroethylene	6.17	3.88 - 7.38
Trichloroethylene	6.23	4.57 - 7.48

Standard Preparation Instructions: None required. This sample is ready for preparation and analysis as received.

Preservative: HCl.

The **Certified Values** are equal to 100% of the "made to" values as determined by volumetric and/or gravimetric measurements used during the manufacture of this product.

The ***Performance Acceptance Limits (PALs™)*** are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The ***PALs™*** are based on analytical verification data generated by ERA, independent referee laboratory results and data from USEPA methods, WP, WS and CLP interlaboratory studies. Recovery and advisory range data for these studies are based on ERA's normal manufacturing ranges. The ***PALs™*** listed for this project may not be applicable since the analyte concentrations are outside of ERA's normal manufacturing ranges and a linear relationship to the concentration listed has not been established. If your result falls outside of the ***PALs™***, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

Prepared by: CZ

Date: 3-8-12

Reviewed by: AJC

Date: 3/9/12

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800-372-0122 ■ fax (303) 421-0159 ■ www.eraqc.com

ERA

A Waters Company

September 14, 2012

Laura Menken
AMEC Environmental & Infrastructure
4600 E. Washington St, ste 600
Phoenix, AZ 85034

Dear Laura:

Enclosed please find the certification documentation for the whole volume performance evaluation samples that you recently ordered. The samples were shipped on September 11, 2012 via FedEx Priority Overnight service to your attention. The ERA project number corresponding to these samples is 0810-12-03.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance please do not hesitate to call.

Sincerely,

Chad Lane
Chemist

enclosures
cl

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800.372.0122 ■ 303.431.8454 ■ fax 303.421.0159 ■ www.eraqc.com

ERA

A Waters Company

COPY

ERA, A Waters Company

Sample Identification and Chain of Custody Form

Ship to: AMEC E & I 4600 E Washington St. ste 600 Phoenix, AZ 85034 **Phone:** 602 733-6069 **Fax:** 602 733-6100 **Attention:** Laura Menken	**Ship from:** ERA, A Waters Company 16341 Table Mountain Parkway Golden, CO 80403 **Phone:** 800-372-0122 or 303-431-8454 **Fax:** 303-421-0159 **Contact:** Chad Lane

Sample Description	Sample Identification	Sample Date	Sample Type	# of Containers	Preservative
Volatiles	0810-12-03	9/11/2012	Aqueous	3 x 40 ml	HCl

		Condition of Contents
Relinquished by: Chad Lane	Date/Time: 9-11-12 1600	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

ERA

A Waters Company

AMEC Environmental & Infrastructure

Account No. A796023

Catalog No. 093 Custom Standard **Sample ID # 0810-12-03**

Volatiles by 8260B

Parameter	Certified Value (µg/L)	Performance Acceptance Limits™ (µg/L)
Carbon tetrachloride	7.51	4.87 - 9.40
Tetrachloroethylene	7.20	4.54 - 8.62
Trichloroethylene	7.27	5.38 - 8.72

Standard Preparation Instructions: None required. This sample is ready for preparation and analysis as received.

Preservative: HCl.

The **Certified Values** are equal to 100% of the "made to" values as determined by volumetric and/or gravimetric measurements used during the manufacture of this product.

The ***Performance Acceptance Limits (PALs™)*** are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The ***PALs™*** are based on analytical verification data generated by ERA, independent referee laboratory results and data from USEPA methods, WP, WS and CLP interlaboratory studies. Recovery and advisory range data for these studies are based on ERA's normal manufacturing ranges. **The *PALs™* listed for this project may not be applicable since the analyte concentrations are outside of ERA's normal manufacturing ranges and a linear relationship to the concentration listed has not been established.** If your result falls outside of the ***PALs™***, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

Prepared by: CZ

Date: 9-14-12

Reviewed by: JML

Date: 9/18/12

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800.372.0122 ■ 303.431.8454 ■ fax 303.421.0159 ■ www.eraqc.com

APPENDIX E

DATA VALIDATION REPORTS (ON CD)

Semi-annual Groundwater Sampling
Data Validation Report
March 2012 Sampling Events for
Focused Remedial Investigation
and Feasibility Study for Properties Located at
501, 502, and 505 South 2nd Avenue
Phoenix, Arizona

Submitted to:

Arizona Public Service Company
Phoenix, Arizona

Submitted by:

AMEC Environment & Infrastructure, Inc.
4600 East Washington Street, Suite 600
Phoenix, Arizona 85034

AMEC Project No. 14-2012-2000

July 2012

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LIST OF ACRONYMS

ADEQ	Arizona Department of Environmental Quality
APS	Arizona Public Service Company
µg/L	micrograms per liter
%D	percent difference
CCAL	continuing calibration
CLP	USEPA Contract Laboratory Program
COCs	Contaminants of Concern
ERA	Environmental Resource Associates
FRI	Focused Remedial Investigation
FS	Feasibility Study
ICAL	initial calibration
ID	identification
IS	internal standard
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
OSWER	Office of Solid Waste and Emergency Response
PCE	tetrachloroethene
PE	Performance Evaluation
QAPP	Quality Assurance Project Plan
QC	quality control
RF	response factor
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SAP	sampling and analysis plan
SOP	standard operating procedure
TA	TestAmerica Laboratories
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

This report provides an assessment of data quality for the analyses of groundwater samples collected during March 2012 as part of the Focused Remedial Investigation (FRI) and Feasibility Study (FS) being conducted at the Arizona Public Service Company (APS) property located at 501, 502, and 505 South 2nd Avenue, Phoenix, Arizona. The site is located within the boundaries of Operable Unit 3 of the Motorola 52nd Street Superfund Project. The FRI and FS are being completed by APS pursuant to the Administrative Order on Consent (AOC), effective date July 29, 2004 (USEPA Docket No. 2004-25).

The results of the data review and final validated data, as included in Appendix A, are presented in this report. During the period of March 6-7, 2012 AMEC collected nine groundwater samples from monitoring wells, including 2 sets of field duplicate samples. In addition, 2 trip blanks, one field blank and one performance evaluation sample were submitted with the samples. Samples were submitted to TestAmerica Laboratories in Phoenix, AZ for analyses for volatile organic compounds (VOC) by Method 8260B.

The constituents of concern (COCs) defined in the Quality Assurance Project Plan (QAPP) (AMEC, 2005 Part 2) for this site are:

Chloroethane	Tetrachloroethene (PCE)
1,1-Dichloroethane	1,1,1-Trichloroethane
1,2-Dichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethene	Trichloroethene (TCE)
cis-1,2-Dichloroethene	Vinyl chloride
trans-1,2-Dichloroethene	1,4-Dioxane

The analyte 1,4-dioxane has subsequently been dropped from the COC list in concurrence with the U.S. Environmental Protection Agency (USEPA). Laboratory analyses for VOCs were conducted in accordance with USEPA Test Method 8260B and results were reported by TestAmerica for a full 8260B target analyte list. The control limits for surrogate and spike recoveries as presented in the QAPP have been applied for evaluation of data quality.

TestAmerica reported results under two project numbers. Samples are listed in Table 1:

Table 1: Sample List: APS Groundwater Samples – March 2012

Work Order PVC0465	**Work Order PVC0524**
MW-1S-A-030612	MW-4S-A-030712
MW-1S-B-030612	MW-5S-A-030712
MW-2S-A-030612	MW-6S-A-
MW-3S-03-612	MW-6S-B-
Trip Blank 030612	MW-7S-
	Trip Blank
	PE030702
	FB-030712

2.0 SUMMARY OF FINDINGS

Analyses were conducted in compliance with the cited methods and with QAPP requirements. Laboratory quality assurance measures were implemented; accuracy and precision objectives were achieved with minor exceptions that do not affect data usability. Results for the performance evaluation sample obtained from an independent vendor and submitted blind to the laboratory were acceptable.

Data were reported by TestAmerica with appropriate Arizona Department of Environmental Quality (ADEQ) qualifiers. Data below the calibration range are qualified as estimated (J).

3.0 DATA VALIDATION METHODOLOGY

This data validation has been performed as specified in the QAPP (AMEC, 2005 Part 2), in accordance with Tier III requirements of the Region 9 Superfund Data Evaluation/Validation Guidance, R9QA/006.1 (USEPA, 2001) and in accordance with USEPA Region 9 Standard Operating Procedure 901 R2 for data review of volatile data packages (03/30/06). These USEPA guidelines were written specifically for the Contract Laboratory Program (CLP), and have been modified for the purposes of this data validation where they differ from USEPA Method SW-846 quality control requirements.

The data review and validation process included 100% full validation of the raw analytical data for all groundwater samples. The laboratory's Level IV analytical data packages were reviewed to determine whether the measurement quality objectives for the program as presented in Section 2.4 of the QAPP and the data evaluation criteria presented in Table 11 of the QAPP were satisfied. The following elements were included in the review:

- chain of custody and sample receipt records
- compliance with specified holding time requirements;
- calibration and instrument performance, including instrument stability as monitored by internal standards
- presence or absence of laboratory contamination as demonstrated by method, trip and field blanks;
- accuracy and bias as demonstrated by results for performance evaluation samples, recovery of surrogate spikes, internal standards, blank spikes (BS), matrix spikes (MS);
- analytical precision as relative percent difference (RPD) of analyte concentration between replicate samples such as field duplicates and laboratory duplicates such as matrix spike (MS) and matrix spike duplicate (MSD) samples and Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) samples;
- target compound identifications
- system performance

Data qualifiers were applied consistent with EPA guidance and the ADEQ requirements.

4.0 DATA VALIDATION FINDINGS

4.1 Chain of Custody and Sample Receipt

All samples were delivered directly by AMEC to the laboratory under Chain of Custody. Samples were received in good condition at TestAmerica. One cooler temperature was slightly above the 4°C limit as required by the QAPP, but below the 6°C limit specified by EPA method. This likely reflects insufficient time between the field and delivery to the laboratory for temperature in the cooler to equilibrate. No data have been qualified. Samples for VOC analysis were collected with hydrochloric acid preservative and submitted with zero headspace.

4.2 Holding Times

All VOC sample analyses were completed within the method-specified holding time of 14 days for preserved samples.

4.3 Instrument Performance, Calibration and Stability

The ability of the instrument to correctly identify volatile organic target analytes was demonstrated through the analysis of bromofluorobenzene within 12 hours of all volatile organics sample analyses.

The mass spectrometer used for analyses of samples was calibrated over the range of 0.5 µg/l to 200 µg/l on March 12, 2012. Calibrations met QAPP and method requirements with relative response factors (RRF) greater than 0.05 and % relative standard deviations (%RSD) of less than 15% for all COCs. Linear calibration was used for acetone and 1,3-transdichloropropene. Neither of the analytes with linear calibrations are COCs for the program and none were detected in samples. The correlation coefficients were greater than 0.99 for all linear calibrations.

Raw data for the initial calibration verification (ICV) with a second-source standard was included in the data packages. All analytes in the ICV analysis were within the laboratory's accuracy limits.

Continuing calibration verification (CCV) analyses of standards at 25 µg/L met the QAPP requirement of $\leq$ 15% difference for the COCs and Method 8260 requirements for the full target analyte list for all sample analyses. The instrument response to internal standards is monitored as a measure of the analytical performance. All internal standards for the VOC analyses met the method criteria with responses within the specified range of 50-150% of their response in the continuing calibration standard analyzed prior to the samples.

4.4 Blanks

Blank samples are aliquots of analyte free water that are used as negative controls to verify that the sample collection, storage, preparation, and analysis system does not produce false positive

results. The types of blanks employed for this sampling event included laboratory method blanks, field blanks and trip blanks for volatile organics.

Hexachlorobutadiene was detected in both method blanks for PVC0524 and PVC0465 at 1.1 µg/l, which is slightly above the reporting limit. This is attributable to carryover in the system. Hexachlorobutadiene was detected in most samples at lower concentrations, below the method reporting limit. All detections for this compound have been qualified to be non-detected at the reporting limit.

Chloroform was detected at a trace level in the Field Blank for the samples collected on March 7, 2012 (PVC0254). Levels of chloroform in samples MW-7-S, MW-5S-A-030712 and MW-4S-A-030712 fell below 5 times the Field Blank concentration. In accordance with EPA Guidelines, these results have been qualified to be non-detected at the level detected, but it should be noted that chloroform has been detected historically in these wells without blank detections.

ADEQ qualifiers for blank contamination are defined for instances where the blank is above the method reporting limit. For the purposes of this project, the B1 flag has been applied to those results where the reported detection has been qualified to be non-detected based on a blank detection between the MDL and RL.

4.5 Performance Evaluation Samples

One performance evaluation (PE) sample was submitted to TestAmerica with program samples. This was a water sample with certified concentrations of target analytes prepared by ERA The Water Company of Golden, CO that was submitted to the laboratory with the March 7, 2012 samples. The PE sample contained tetrachloroethene, carbon tetrachloride, and trichloroethene. Results fell within performance limits for these analytes.

Table 2: Performance Evaluation Sample Analyses, March 2012

Analyte	Result	Certified Value	ERA Performance
	µg/l	µg/l	Limits
TestAmerica, March 2012			
Carbon Tetrachloride	6.5	6.43	4.13-8.01
Tetrachloroethylene	5.8	6.17	3.88-7.38
Trichloroethylene	6.3	6.23	4.57-7.48

4.6 Laboratory Control Sample (LCS) and Duplicates (LCSD) Recoveries and Precision

LCSs are blank spikes prepared by adding known quantities of the target analytes or a representative subset of those analytes to laboratory deionized water. The LCS is passed through the same concentration and analytical procedures as the samples they accompany. LCS recoveries and precision are an indication of the ability of a laboratory to successfully perform an analytical method in an interference-free matrix.

Naphthalene recovered marginally above the control limit in one LCS accompanying the March 7, 2012 samples. Naphthalene was not detected in any program sample and no data have been qualified.

4.7 Surrogate Spike Recoveries

Surrogate spikes are used to evaluate accuracy, method performance, and extraction efficiency in each individual sample. Surrogate compounds are compounds not normally found in environmental samples, but which are similar to target analytes in chemical composition and behavior in the analytical process. TestAmerica utilized toluene-d_8, bromofluorobenzene (BFB) and dibromofluoromethane as surrogates for VOC analyses. All VOC surrogate recoveries were acceptable.

4.8 Matrix Spike and Matrix Spike Duplicate Analyses

MS and MSD samples are prepared by adding known amounts of the analytes to an aliquot of sample. The spiked sample is then processed through the same procedures as the unspiked samples in an analytical batch. MS recovery and precision indicate the laboratory's ability to successfully recover an analyte in the matrix of a specific sample or related sample matrices.
MS/MSD samples accompanying APS samples were prepared from MW-4S-A-030712. Recoveries and precision were acceptable.

4.9 Field Duplicate Results

Field duplicates are replicate samples collected at the same location. Field duplicates provide an indication of the reproducibility of the sampling and analysis procedures for a given sample matrix.

All detections in the duplicate samples fell below 5 times the reporting limit, where precision criteria are not generally applicable. Even at the trace levels present, however, results for all detections in the sets of field duplicates collected did demonstrate precision within QAPP and EPA criteria.

Table 4: Field Duplicate Precision

Well/Sampling Date	MW-6-S 03/07/12			MW-1-S 03/06/12		
	µg/l A	µg/l B	RPD	µg/l A	µg/l B	RPD
Bromodichloromethane	0.68	0.64	3%	<0.5	<0.5	NA
Chloroform	1.7	1.7	0%	1.0	0.98	2%
Dibromochloromethane	0.24J	0.26J	8%	<0.5	<0.5	NA
Tetrachloroethene	1.7	1.7	0%	0.81	0.67	19
Trichloroethene	0.97	1.0	3%	<0.5	<0.5	NA

J = Estimated value, below reporting limit
NA = Not applicable.

4.10 Target Compound Identifications

The raw data for all reported analytes were reviewed to confirm that they met method criteria for positive identification and that there was no evidence of potential interference or carryover from previous samples.

4.11 Reporting Limits

Reporting limits for the COCs satisfy the QAPP requirement of 1 μg/l. Laboratory detection limits were reviewed to verify that reporting limits were established appropriately. Analytes detected below the reporting limit but above the method detection limit were reported and have been qualified as estimated.

4.12 Compound Quantitation

Calculations were verified on a random basis for reported analytes. No errors were detected for analytes quantified on the basis of average response factors.

5.0 SUMMARY AND CONCLUSIONS

Based on the review conducted, the data are usable and of acceptable quality. Measurement quality objectives for accuracy, precision and sensitivity as defined by the QAPP for the COCs have been achieved.

6.0 REFERENCES

Arizona Department of Environmental Quality. Arizona laboratory Data Qualifiers. Revision 3, 2007

AMEC Earth and Environmental, Inc. April 22, 2005. *Part 1 - Sampling and Analysis Plan, Focused Remedial Investigation and Feasibility Study Property at 501,502, and 505 South 2nd Avenue in Phoenix, Arizona.*

AMEC Earth and Environmental, Inc. April 22, 2005. *Part 2 - Quality Assurance Project Plan, Revision 1*, *Focused Remedial Investigation and Feasibility Study Property at 501,502, and 505 South 2nd Avenue in Phoenix, Arizona.*

U.S. EPA, 1999. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA540/R-99/008.

U. S. EPA, December 2001. *Region 9 Superfund Data Evaluation/Validation Guidance (EPA R9QA/006.1).*

U.S. EPA March 2006. *USEPA Region 9 Standard Operating Procedure 901: Guidelines for Data Review of Contract Laboratory Program Analytical Services Volatile and Semivolatile Data Packages.* SOP-901 R2, 03/30/06

7.0 LIMITATIONS

This report was prepared exclusively for Arizona Public Services by AMEC Earth & Environmental, Inc. The quality of information, and conclusions contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation; ii) data supplied by outside sources; and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by Arizona Public Services only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

APPENDIX A

VALIDATED DATA

APS Groundwater Analyses
March 2012

SAMPLE NAME: LABSAMPID:		FB030712 PVC0524-08			MW-1S-A-030612 PVC0465-03			MW-1S-B-030612 PVC0465-04			MW-2S-A-030612 PVC0465-01			MW-3S-A-030612 PVC0465-02		
ANALYTE	UNITS		Q	R		Q	R		Q	R		Q	R		Q	R
1,1,1,2-Tetrachloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1,1-Trichloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1,2-Trichloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1-Dichloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1-Dichloroethene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,1-Dichloropropene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,2,3-Trichlorobenzene	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
1,2,3-Trichloropropane	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
1,2,4-Trichlorobenzene	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
1,2,4-Trimethylbenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,2-Dibromo-3-chloropropane	ug/l	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8
1,2-Dibromoethane (EDB)	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,2-Dichlorobenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,2-Dichloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,2-Dichloropropane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,3,5-Trimethylbenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,3-Dichlorobenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,3-Dichloropropane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
1,4-Dichlorobenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
2,2-Dichloropropane	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
2-Butanone (MEK)	ug/l	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8
2-Chlorotoluene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
2-Hexanone	ug/l	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8
4-Chlorotoluene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8	2.5	U	E8
Acetone	ug/l	10	U	E8	10	U	E8	10	U	E8	10	U	E8	10	U	E8
Benzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Bromobenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Bromochloromethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Bromodichloromethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Bromoform	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
Bromomethane	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
Carbon disulfide	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Carbon tetrachloride	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Chlorobenzene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Chloroethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Chloroform	ug/l	**0.17**	**J**	E4	**1**			**0.98**			**0.59**			**0.8**		
Chloromethane	ug/l	1	U	E8	1	U	E8	1	U	E8	1	U	E8	1	U	E8
cis-1,2-Dichloroethene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
cis-1,3-Dichloropropene	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8
Dibromochloromethane	ug/l	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8	0.5	U	E8

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SAMPLE NAME: LABSAMPID:		FB030712 PVC0524-08	MW-1S-A-030612 PVC0465-03	MW-1S-B-030612 PVC0465-04	MW-2S-A-030612 PVC0465-01	MW-3S-A-030612 PVC0465-02
Dibromomethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Dichlorodifluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Ethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Hexachlorobutadiene	ug/l	1 U B1	1 U B1	1 U B1	1 U B1	1 U B1
Iodomethane	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
Isopropylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Methylene Chloride	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Naphthalene	ug/l	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1
n-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
n-Propylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
p-Isopropyltoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
sec-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Styrene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
tert-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Tetrachloroethene	ug/l	0.5 U E8	**0.81**	**0.67**	**0.6**	**1.2**
Toluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,2-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,3-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Trichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.24 J E4	**0.99**
Trichlorofluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Vinyl Acetate	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Vinyl chloride	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Xylenes, Total	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8

Qualifier Codes

U = Non-detected at the stated limit

J = Estimated value

Reason Codes

E8 - Reported to detection limit

E4 - Detected between method reporting limit and detection limit.t

B1 = Detected in blank

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SAMPLE NAME: LABSAMPID:		MW-4S-A-030712 PVC0524-01	MW-5S-A-030712 PVC0524-02	MW-6S-A- PVC0524-05	MW-6S-B- PVC0524-06	MW-7S- PVC0524-07
ANALYTE	UNITS	Q R	Q R	Q R	Q R	Q R
1,1,1,2-Tetrachloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1,1-Trichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1,2,2-Tetrachloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1,2-Trichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,2,3-Trichlorobenzene	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
1,2,3-Trichloropropane	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
1,2,4-Trichlorobenzene	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
1,2,4-Trimethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dibromo-3-chloropropane	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
1,2-Dibromoethane (EDB)	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichloropropane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,3,5-Trimethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,3-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,3-Dichloropropane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
1,4-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
2,2-Dichloropropane	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
2-Butanone (MEK)	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
2-Chlorotoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
2-Hexanone	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
4-Chlorotoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
4-Methyl-2-pentanone (MIBK)	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
Acetone	ug/l	10 U E8	10 U E8	10 U E8	10 U E8	10 U E8
Benzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Bromobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Bromochloromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Bromodichloromethane	ug/l	0.5 U E8	0.5 U E8	**0.68**	**0.64**	0.5 U E8
Bromoform	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Bromomethane	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Carbon disulfide	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Carbon tetrachloride	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Chlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Chloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Chloroform	ug/l	0.53 U B1	0.78 U B1	**1.7**	**1.7**	0.59 U B1
Chloromethane	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 E8
cis-1,2-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
cis-1,3-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Dibromochloromethane	ug/l	0.5 U E8	0.5 U E8	**0.24 J** E4	**0.26 J** E4	0.5 U E8

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SAMPLE NAME: LABSAMPID:		MW-4S-A-030712 PVC0524-01	MW-5S-A-030712 PVC0524-02	MW-6S-A- PVC0524-05	MW-6S-B- PVC0524-06	MW-7S- PVC0524-07
Dibromomethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Dichlorodifluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Ethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Hexachlorobutadiene	ug/l	1 U B1	1 U B1	1 U B1	1 U B1	1 U B1
Iodomethane	ug/l	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8	2.5 U E8
Isopropylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Methylene Chloride	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Naphthalene	ug/l	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1
n-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
n-Propylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
p-Isopropyltoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
sec-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Styrene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
tert-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Tetrachloroethene	ug/l	**0.42 J** E4	**0.83**	**1.7**	**1.7**	**0.8**
Toluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,2-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,3-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Trichloroethene	ug/l	0.5 U E8	0.5 U E8	**0.97**	**1.0**	**0.42 J** E4
Trichlorofluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Vinyl Acetate	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8
Vinyl chloride	ug/l	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8	0.5 U E8
Xylenes, Total	ug/l	1 U E8	1 U E8	1 U E8	1 U E8	1 U E8

Qualifier Codes

U = Non-detected at the stated limit

J = Estimated value

Reason Codes

E8 - Reported to detection limit

E4 - Detected between method reporting limit and detection limit.t

B1 = Detected in blank

APS Groundwater Analyses
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SAMPLE NAME: LABSAMPID:		PE-030712 PVC0524-04	Trip Blank PVC0465-05	Trip Blank PVC0524-03
ANALYTE	UNITS	Q R	Q R	Q R
1,1,1,2-Tetrachloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1,1-Trichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1,2,2-Tetrachloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1,2-Trichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,1-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,2,3-Trichlorobenzene	ug/l	1 U E8	1 U E8	1 U E8
1,2,3-Trichloropropane	ug/l	1 U E8	1 U E8	1 U E8
1,2,4-Trichlorobenzene	ug/l	1 U E8	1 U E8	1 U E8
1,2,4-Trimethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dibromo-3-chloropropane	ug/l	2.5 U E8	2.5 U E8	2.5 U E8
1,2-Dibromoethane (EDB)	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,2-Dichloropropane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,3,5-Trimethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,3-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,3-Dichloropropane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
1,4-Dichlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
2,2-Dichloropropane	ug/l	1 U E8	1 U E8	1 U E8
2-Butanone (MEK)	ug/l	2.5 U E8	2.5 U E8	2.5 U E8
2-Chlorotoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
2-Hexanone	ug/l	2.5 U E8	2.5 U E8	2.5 U E8
4-Chlorotoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
4-Methyl-2-pentanone (MIBK)	ug/l	2.5 U E8	2.5 U E8	2.5 U E8
Acetone	ug/l	10 U E8	10 U E8	10 U E8
Benzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Bromobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Bromochloromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Bromodichloromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Bromoform	ug/l	1 U E8	1 U E8	1 U E8
Bromomethane	ug/l	1 U E8	1 U E8	1 U E8
Carbon disulfide	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Carbon tetrachloride	ug/l	**6.5**	0.5 U E8	0.5 U E8
Chlorobenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Chloroethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Chloroform	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Chloromethane	ug/l	1 U E8	1 U E8	1 U E8
cis-1,2-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
cis-1,3-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Dibromochloromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8

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SAMPLE NAME: LABSAMPID:		PE-030712 PVC0524-04	Trip Blank PVC0465-05	Trip Blank PVC0524-03
Dibromomethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Dichlorodifluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Ethylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Hexachlorobutadiene	ug/l	1 U B1	1 U B1	1 U B1
Iodomethane	ug/l	2.5 U E8	2.5 U E8	2.5 U E8
Isopropylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Methylene Chloride	ug/l	1 U E8	1 U E8	1 U E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Naphthalene	ug/l	2.5 U E8,L1	2.5 U E8,L1	2.5 U E8,L1
n-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
n-Propylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
p-Isopropyltoluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
sec-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Styrene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
tert-Butylbenzene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Tetrachloroethene	ug/l	**5.8**	0.5 U E8	0.5 U E8
Toluene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,2-Dichloroethene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
trans-1,3-Dichloropropene	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Trichloroethene	ug/l	**6.3**	0.5 U E8	0.5 U E8
Trichlorofluoromethane	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Vinyl Acetate	ug/l	1 U E8	1 U E8	1 U E8
Vinyl chloride	ug/l	0.5 U E8	0.5 U E8	0.5 U E8
Xylenes, Total	ug/l	1 U E8	1 U E8	1 U E8

Qualifier Codes

U = Non-detected at the stated limit

J = Estimated value

Reason Codes

E8 - Reported to detection limit

E4 - Detected between method reporting limit and detection limit.t

B1 = Detected in blank

APPENDIX B

VALIDATION QUALIFIERS

USEPA VALIDATION DATA QUALIFIER DEFINITIONS

U The U qualifier indicates that the analyte must be considered to be nondetected at the concentration listed. U qualifiers added during validation are typically a result of detection of target analytes in field, trip, or laboratory blanks.

J The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a QC element that exceeds required acceptance limits.

UJ The UJ qualifier indicates that the associated analyte was not detected at or above the method detection limit (MDL). However, the reported MDL is approximate and may be inaccurate or imprecise.

N The N qualifier indicates an analyte has been presumptively identified. Presumptive detection means that a chromatographic peak was detected at the correct retention time for an analyte, but that not all required identification criteria were met. The associated result is both qualitatively and quantitatively uncertain.

R The R qualifier indicates that a result has been rejected due to serious QC problems. It is not possible to definitively determine whether the analyte is present or absent in the sample.

Arizona Data Qualifiers Established By
The Arizona Department of Health Services

Revision 3.0

Qualifier	Meaning
Microbiology	
A1	Too numerous to count
A2	Sample incubation period exceeded method requirement
A3	Sample incubation period was shorter than method requirement
A4	Target organism detected in associated method blank
A5	Incubator/water bath temperature was outside method requirements
A6	Target organism not detected in associated positive control
A7	Micro sample received without adequate headspace
A8	Plate count was outside the method's reporting range. Reported value is estimated.
Method/Calibration Blank	
B1	Target analyte detected in method blank at or above the method reporting limit
B2	Non-target analyte detected in method blank and sample, producing interference
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	Target analyte detected in blank at/above method acceptance criteria
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL
B6	Target analyte detected in calibration blank at or above the method reporting limit, but below trigger level or MCL
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank
Qualifier	Matrix spike recovery was high, the method control sample recovery was acceptable
Microbiology	Matrix spike recovery was low, the method control sample recovery was acceptable

Qualifier	Meaning
Microbiology	
A1	Too numerous to count
A2	Sample incubation period exceeded method requirement
A3	Sample incubation period was shorter than method requirement
A4	Target organism detected in associated method blank
A5	Incubator/water bath temperature was outside method requirements
A6	Target organism not detected in associated positive control
A7	Micro sample received without adequate headspace
Method/Calibration Blank	
B1	Target analyte detected in method blank at or above the method reporting limit
B2	Non-target analyte detected in method blank and sample, producing interference
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	Target analyte detected in blank at/above method acceptance criteria
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL
B6	Target analyte detected in calibration blank at or above the method reporting limit, but below trigger level or MCL
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank
Confirmation	
C1	Confirmatory analysis not performed as required by the method
C3	Qualitative confirmation performed
C4	Confirmatory analysis was past holding time
C5	Confirmatory analysis was past holding time
C6	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported as there was not obvious

	chromatographic interference
C7	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic interference
Dilution	
D1	Sample required dilution due to matrix
D2	Sample required dilution due to high concentration of target analyte
D3	Sample dilution required due to insufficient sample
D4	Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed
Estimated Concentration	
E1	Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL)
E5	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but not confirmed by alternate analysis
E6	Concentration estimated. Internal standard recoveries did not meet method acceptance criteria
E7	Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample
Hold Time	
H1	Sample analysis performed past holding time.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time

H3	Sample was received and analyzed past holding time
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time
BOD	
K1	The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value
K2	The sample dilutions set-up for the BOD analysis did not meet the criteria of a residual dissolved oxygen of at least 1 mg/L. Any reported result is an estimated value
K4	The seed depletion was outside the method acceptance limits. The reported result is an estimated value
K5	The dilution water D.O. depletion was > 0.2 mg/L
K6	Glucose/glutamic acid BOD was below method acceptance criteria
K7	A discrepancy between the BOD and COD results has been verified by reanalysis of the sample of COD
K8	Glucose/glutamic acid BOD was above method acceptance levels
Laboratory Fortified Blank/Blank Spike	
L1	The associated blank spike recovery was above laboratory acceptance limits
L2	The associated blank spike recovery was below laboratory acceptance limits
L3	The associated blank spike recovery was above method acceptance limits
L4	The associated blank spike recovery was below method acceptance limits
Matrix Spike	
M1	Matrix spike recovery was high, the method control sample recovery was acceptable
M2	Matrix spike recovery was low, the method control sample recovery was acceptable
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable
M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable

M5	Analyte concentration was determined by the method of standard addition (MSA)
M6	Matrix spike recovery was high. Data reported per ADEQ policy 0154.000
M7	Matrix spike recovery was low. Data reported per ADEQ policy 0154.000
General	
N1	See case narrative
N2	See corrective action report
N3	The analysis meets all method requirements. See case narrative
Sample Quality	
Q1	Sample integrity was not maintained. See case narrative
Q2	Sample received with head space
Q3	Sample received with improper chemical preservation
Q4	Sample received and analyzed without chemical preservation
Q5	Sample received with inadequate chemical preservation, but preserved by the laboratory
Q6	Sample was received above recommended temperature
Q7	Sample inadequately dechlorinated
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfies ADEQ policies 0154 and 0155
Q9	Insufficient sample received to meet method QC requirements
Q10	Sample received in inappropriate sample container
Q11	Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices
Duplicates	
R1	RPD exceeded the method control limit. See case narrative
R2	RPD exceeded the laboratory control limit. See case narrative
R4	MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria
R5	MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria

R6	LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria
R7	LFB/LFBD RPD exceeded the laboratory control limit. Recovery met acceptance criteria
R8	Sample RPD exceeded the method control limit
R9	Sample RPD exceeded the laboratory control limit
R10	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic problems
R11	The RFD calculation for MS/MSD does not provide useful information due to the varying sample weights when Encore samplers/methanol field preserved samples are used
Surrogates	
S1	Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits
S3	Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits. No target analytes were detected in the sample
S4	Surrogate recovery was above laboratory method acceptance limits. No target analytes were detected in the sample
S5	Surrogate recovery was below laboratory acceptance limits, but within method acceptance limits
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect
S7	Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect
S8	The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide any useful information. The method control sample recovery was acceptable
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative
S11	Surrogate recovery was high. Data reported per ADEQ policy 154.000
S12	Surrogate recovery was low. Data reported per ADEQ policy 154.000

Method/Analyte Discrepancies	
T1	Method approved by EPA, but not yet licensed by ADHS.
T2	Cited ADHS licensed method does not contain this analyte as part of method compound list
T3	Method not promulgated either by EPA or ADHS
T4	Tentatively identified compound. Concentration is estimated and based on the closest internal standard
Calibration Verification	
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample
V2	CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample
V3	CCV recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed. See case narrative
V4	CCV recovery was below method acceptance limits. The sample could not be reanalyzed due to insufficient sample
V5	CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B
V6	Data reported from one-point calibration criteria per ADEQ policy 155.000
V7	Calibration verification recovery was above the method control limit for this analyte, however, the average % difference or % drift for al the analytes met method criteria
V8	Calibration verification recovery was below the method control limit for this analyte, however the aver % difference or the % drift for all the analytes met method criteria
Calibration	
W1	The % RSD for this compound was above 20%. The average % RSD for all compounds in the calibration met the 20% criteria as specified in EPA Method 8000B
W2	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria as specified in EPA method 8260B/8270C

APPENDIX C

PERFORMANCE EVALUATION SAMPLE CERTIFIED RESULTS

ERA

A Waters Company

March 8, 2012

Laura Menken
AMEC Environmental & Infrastructure
4600 E. Washington St, ste 600
Phoenix, AZ 85034

Dear Laura:

Enclosed please find the certification documentation for the whole volume performance evaluation samples that you recently ordered. The samples were shipped on March 6, 2012 via FedEx Priority Overnight service to your attention. The ERA project number corresponding to these samples is 0221-12-03.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance please do not hesitate to call.

Sincerely,

Chad Lane
Chemist

enclosures
cl

ERA

A Waters Company

ERA, A Waters Company

Sample Identification and Chain of Custody Form

Ship to: AMEC E & I 1405 W Auto Drive Tempe, AZ 85284-1016 **Phone:** 480-940-2320 **Fax:** 480-785-0970 **Attention:** Laura Menken	**Ship from:** ERA, A Waters Company 16341 Table Mountain Parkway Golden, CO 80403 **Phone:** 800-372-0122 or 303-431-8454 **Fax:** 303-421-0159 **Contact:** Chad Lane

Sample Description	Sample Identification	Sample Date	Sample Type	# of Containers	Preservative
Volatiles	0221-12-03	3/6/2012	Aqueous	3 x 40 ml	HCl

		Condition of Contents
Relinquished by: Chad	Date/Time: 3-6-12 1600	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

COPY

ERA

A Waters Company

AMEC Environmental & Infrastructure

Account No. A796023

Catalog No. 093 Custom Standard **Sample ID # 0221-12-03**

Volatiles by 8260B

Parameter	Certified Value (µg/L)	Performance Acceptance Limits™ (µg/L)
Carbon tetrachloride	6.43	4.13 - 8.01
Tetrachloroethylene	6.17	3.88 - 7.38
Trichloroethylene	6.23	4.57 - 7.48

Standard Preparation Instructions: None required. This sample is ready for preparation and analysis as received.

Preservative: HCl.

The **Certified Values** are equal to 100% of the "made to" values as determined by volumetric and/or gravimetric measurements used during the manufacture of this product.

The ***Performance Acceptance Limits (PALs™)*** are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The ***PALs™*** are based on analytical verification data generated by ERA, independent referee laboratory results and data from USEPA methods, WP, WS and CLP interlaboratory studies. Recovery and advisory range data for these studies are based on ERA's normal manufacturing ranges. The ***PALs™*** listed for this project may not be applicable since the analyte concentrations are outside of ERA's normal manufacturing ranges and a linear relationship to the concentration listed has not been established. If your result falls outside of the ***PALs™***, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

Prepared by: CZ

Date: 3-8-12

Reviewed by: AJC

Date: 3/9/12

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800-372-0122 ■ fax (303) 421-0159 ■ www.eraqc.com

Semi-annual Groundwater Sampling
Data Validation Report
September 2012 Sampling Events for
Focused Remedial Investigation
and Feasibility Study for Properties Located at
501, 502, and 505 South 2nd Avenue
Phoenix, Arizona

Submitted to:

Arizona Public Service Company
Phoenix, Arizona

Submitted by:

AMEC Environment & Infrastructure, Inc.
4600 East Washington Street, Suite 600
Phoenix, Arizona 85034

AMEC Project No. 14-2012-2000

January 2013

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LIST OF ACRONYMS

ADEQ	Arizona Department of Environmental Quality
APS	Arizona Public Service Company
µg/L	micrograms per liter
%D	percent difference
CCAL	continuing calibration
CLP	USEPA Contract Laboratory Program
COCs	Contaminants of Concern
ERA	Environmental Resource Associates
FRI	Focused Remedial Investigation
FS	Feasibility Study
ICAL	initial calibration
ID	identification
IS	internal standard
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
OSWER	Office of Solid Waste and Emergency Response
PCE	tetrachloroethene
PE	Performance Evaluation
QAPP	Quality Assurance Project Plan
QC	quality control
RF	response factor
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SAP	sampling and analysis plan
SDG	sample delivery group
SOP	standard operating procedure
TA	TestAmerica Laboratories
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

This report provides an assessment of data quality for the analyses of groundwater samples collected during September 2012 as part of the Focused Remedial Investigation (FRI) and Feasibility Study (FS) being conducted at the Arizona Public Service Company (APS) property located at 501, 502, and 505 South 2nd Avenue, Phoenix, Arizona. The site is located within the boundaries of Operable Unit 3 of the Motorola 52nd Street Superfund Project. The FRI and FS are being completed by APS pursuant to the Administrative Order on Consent (AOC), effective date July 29, 2004 (USEPA Docket No. 2004-25).

During the period of September 10-13, 2012 AMEC collected twenty (20) groundwater samples from monitoring wells, including 2 sets of field duplicate samples. In addition, 4 trip blanks, one field blank and one performance evaluation (PE) sample were submitted with the samples to TestAmerica Laboratories in Phoenix, AZ for analyses for volatile organic compounds (VOC) by Method 8260B.

The results of the data review and final validated data, as included in Appendix A, are presented in this report. United States Environmental Protection Agency (USEPA) and Arizona data qualifiers as listed in Appendix B have been applied as appropriate.

The constituents of concern (COCs) defined in the Quality Assurance Project Plan (QAPP) (AMEC, 2005 Part 2) for this site are:

Chloroethane	cis-1,2-Dichloroethene	1,1,2-Trichloroethane
1,1-Dichloroethane	trans-1,2-Dichloroethene	Trichloroethene (TCE)
1,2-Dichloroethane	Tetrachloroethene (PCE)	Vinyl chloride
1,1-Dichloroethene	1,1,1-Trichloroethane	1,4-Dioxane

The analyte 1,4-dioxane has subsequently been dropped from the COC list. Results have been reported by TestAmerica for a standard USEPA Method 8260B target analyte list. The control limits for surrogate and spike recoveries as presented in the QAPP have been applied for evaluation of data quality.

TestAmerica reported results under four project numbers. Samples are listed in Table 1:

Table 1: Sample List: APS Groundwater Samples – September 2012

Work Order PVI0512	Work Order PVI0635	Work Order PVI0717	Work Order PVI0867
MW2S-091012	MW3M2-091112	MW6M2-091212	MW5M2-091312
MW2M-091012	MW3S-091112	MW62-091212-A	MW5S-091312
MW2M2-091012	MW3M-091112	MW6S-091212-B	MW5M-091312
Trip Blank	MW1S-091112-A	MW6M-091212	Trip Blank
	MW1S-091112-B	MW4M-091212	
	MW1M-091112	MW4S-091212	
	MW1M2-091112	MW7S-091212	
	Trip Blank	Trip Blank	
		PE1-091212	
		FB1-091212	

2.0 SUMMARY OF FINDINGS

Analyses were conducted in compliance with the cited methods and with QAPP requirements. Laboratory quality assurance measures were implemented; accuracy and precision objectives were achieved for method-required quality control measurements and samples. Results for the performance evaluation sample obtained from an independent vendor, as documented in Appendix C, were acceptable for two of the tested analytes; results for trichloroethylene were slightly below the acceptance limit. This outlier and subsequent investigative efforts are discussed in Section 4.5. All results and detection limits for trichloroethylene are qualified as estimated with potential low bias.

Documentation lapses in the laboratory were noted during the review. Upon notification by AMEC, the laboratory reviewed records, confirmed that data as reported were correct and initiated Corrective Actions. Documentation on the laboratory's responses and copies of the Corrective Action Reports are provided in Appendix D.

Data were reported by TestAmerica with appropriate Arizona Department of Environmental Quality (ADEQ) qualifiers. Data below the calibration range are qualified as estimated (J).

3.0 DATA VALIDATION METHODOLOGY

This data validation has been performed as specified in the QAPP (AMEC, 2005 Part 2), in accordance with Tier III requirements of the Region 9 Superfund Data Evaluation/Validation Guidance, R9QA/006.1 (EPA, 2001) and in accordance with USEPA Region 9 Standard Operating Procedure 901 R2 for data review of volatile data packages (03/30/06). These USEPA guidelines were written specifically for the Contract Laboratory Program (CLP), and have been modified for the purposes of this data validation where they differ from USEPA Method SW-846 quality control requirements.

The data review and validation process included 100% full validation of the raw analytical data for all groundwater samples. The laboratory's Level IV analytical data packages were reviewed to determine whether the measurement quality objectives for the program as presented in Section 2.4 of the QAPP and the data evaluation criteria presented in Table 11 of the QAPP were satisfied. Laboratory Control Limits as provided to EPA in December 2008 were applied for the review. The following elements were included in the review:

- chain of custody and sample receipt records
- compliance with specified holding time requirements;
- calibration and instrument performance, including instrument stability as monitored by internal standards
- presence or absence of laboratory contamination as demonstrated by method, trip and field blanks;
- accuracy and bias as demonstrated by results for performance evaluation samples, recovery of surrogate spikes, internal standards, blank spikes (BS), matrix spikes (MS);
- analytical precision as relative percent difference (RPD) of analyte concentration between replicate samples such as field duplicates and laboratory duplicates such as matrix spike (MS) and matrix spike duplicate (MSD) samples and Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)samples;
- target compound identifications
- system performance

Data qualifiers were applied consistent with EPA guidance and the ADEQ requirements.

4.0 DATA VALIDATION FINDINGS

4.1 Chain of Custody and Sample Receipt

All samples were delivered directly by AMEC on the day of sampling to the laboratory under Chain of Custody. Samples were received in good condition at TestAmerica with cooler temperatures ranging from 1.4^{o}C to 2.1^{o}C. Samples for VOC analysis were collected with hydrochloric acid preservative and submitted with zero headspace.

The COC for the September 11, 2012 samples reflects confusion during sample log-in at the laboratory, with ID's initially assigned then changed by laboratory personnel. Field duplicate samples MW6S-091212A and MW6S-091212B were ultimately logged into the laboratory system on September 12 as one sample, 0717-03. The sample duplicate was then analyzed one week after the others in the sample delivery group (SDG) and reported under the ID 0717-10, but no documentation for this later ID assignment or corrective action report for the log-in error was included in the data package. The laboratory was contacted during the validation review, and subsequently provided an explanation for the error, confirmation of the sample identification and reported data and their Corrective Action Report. This documentation is included in Appendix D. Reported data for the field duplicates are considered valid.

4.1.1 Laboratory Internal Custody Records

An additional discrepancy in laboratory records was noted during the data documentation review for the September 12, 2012 samples. The hand-written instrument run-log listed samples from TA project 0714, while the typed instrument log for the analysis sequence listed samples from the APS Project 0717. Data were reported from the sequence for the APS samples and appeared consistent with historical results for the groundwater wells, but documentation was considered compromised. The laboratory was notified and confirmed that no samples from their project 0714 were in the laboratory for VOC analysis and that this reflected an analyst hand-written entry error that had been corrected in the instrument entry, but the documentation trail not been corrected. Their response and Corrective Action Report are included in Appendix D. Reported data are considered valid for project use.

4.2 Holding Times.

All VOC sample analyses were completed within the method-specified holding time of 14 days for preserved samples.

4.3 Instrument Performance, Calibration and Stability

The ability of the instrument to correctly identify volatile organic target analytes was demonstrated through the analysis of bromofluorobenzene within 12 hours of all volatile organics sample analyses.

The mass spectrometers used for analyses of samples were calibrated with nine standards over the range of 0.5 µg/l to 200 µg/l on July 9 and August 10, 2012. The calibrations met QAPP and method requirements with relative response factors (RRF) greater than 0.05 and % relative standard deviations (%RSD) of less than 15% for all COCs. Quadratic calibration was used on the August 10 calibration for hexachlorobutadiene 1,2,3-trichlorobenzene, and 1,2-dibromo-3-chloropropane. None of these analytes were detected in program samples. Correlation coefficients were greater than 0.99 for all quadratic calibrations.

For the July 9, 2012 instrument calibration, a linear curve was used for cis-1,2-dichloroethene, trans-1.2-dichloroethene, 1,1,1-trichloroethane 2,2-dichloropropane while 1,2-dibromo-3-chloropropane and hexachlorobutadiene were based on quadratic equations. This calibration was applicable to only the field duplicate sample MW6S-091112B.

Raw data for the initial calibration verifications (ICV) with a second-source standard wereincluded in the data packages. All analytes in the ICV analyses were within the laboratory's accuracy limits for both calibrations.

Continuing calibration verification (CCV) analyses of standards at 25 µg/L met the QAPP requirement of $\leq$ 15% difference for the COCs and Method 8260 requirements for the full target analyte list for all sample analyses. Recoveries of hexachlorobutadiene and 1,2-dibromo-3-

chloropropane were above the laboratory's performance-based limits for the CCVs associated with the September 11, 12 and 13, 2012 samples. Neither analyte was detected in any program sample and no data have been qualified.

The instrument response to internal standards is monitored as a measure of the analytical performance. All internal standards for the VOC analyses met the method criteria with responses within the specified range of 50-150% of their response in the continuing calibration standard analyzed prior to the samples.

4.4 Blanks

Blank samples are aliquots of analyte free water that are used as negative controls to verify that the sample collection, storage, preparation, and analysis system does not produce false positive results. The types of blanks employed for this sampling event included laboratory method blanks, field blanks and trip blanks for volatile organics.

With one exception, no analytes were detected in the laboratory or field blanks. A trace level of naphthalene was detected in the laboratory method blank associated with MW6S-091112B. Naphthalene was not detected in the sample and no data were qualified.

Acetone was detected in the trip blank for the September 10 samples. No acetone was detected in program samples and no data have been qualified.

4.5 Performance Evaluation Samples

One performance evaluation (PE) sample was submitted to TestAmerica with program samples. This was a water sample with certified concentrations of target analytes prepared by ERA of Golden, CO that was submitted to the laboratory with the September 12, 2012 samples. The PE sample contained tetrachloroethene, carbon tetrachloride, and trichloroethene. Results fell within performance limits for carbon tetrachloride and tetrachloroethylene, but the laboratory result for trichloroethylene was slightly below the lower performance limit. The apparent recovery was 71.5%.

Table 2: Performance Evaluation Sample Analyses, September 2012

Analyte	Result µg/l	Certified Value µg/l	ERA Performance Limits
TestAmerica, September 2012			
Carbon Tetrachloride	7.2	7.51	4.87 – 9.40
Tetrachloroethylene	5.1	7.20	4.54 - 8.62
Trichloroethylene	5.2	7.27	5.38 - 8.72

ERA notes on their documentation, included in Appendix C, that the performance limits may not be applicable since the analyte concentrations are lower than their normal manufacturing range. No apparent reason for the discrepancy could be identified. Accuracy for all analytes was

acceptable in the calibration check standard, blank spikes and matrix spikes accompanying these samples. The calibration curve did not show any trends in response factors at lower concentrations that would explain the low result. Peak integrations appeared correct and calculations were verified.

After TA was notified by AMEC that the reported trichloroethylene result fell outside the acceptance limits, the laboratory initiated a full investigation, including analyses of retained samples of the ERA PE sample. Results for the re-analyses of the PE sample in December 2012 by both the Phoenix and Denver TA labs were within acceptance limits. Results for an additional QC sample procured from another vendor were also acceptable. TA concluded that the result was an “anomaly”. Documentation is included in Appendix D for the laboratory investigation.
Historical data were reviewed to determine if the PE result likely indicated significant low bias to sample results. During the monitoring period of 2009 to present, levels of TCE above the method reporting limit of 0.5 µg/l have been detected only in MW-2S, MW-3S, MW-6S and MW-7S. As presented below, results for these wells from the September sampling fall within the range of recent data.

Monitoring Well	2009		2010		2011		2012	
	March	Sept.	March	Sept.	March	Sept.	March	Sept.
MW-2S	0.45 J	0.72	0.42 J	0.57	0.99	0.56	0.24 J	0.39 J
MW-3S	2.1	1.4	1.4	0.63	0.6	0.71	0.99	1.5
MW-6S	0.67	1.6	2.5	1.1	0.99	<0.5	0.97	0.32J 0.48J
MW-7S	0.57	<0.5	0.51	0.79	0.42 J	0.26 J	0.42 J	<0.5

The apparent recovery of 71% does not warrant rejection of sample results, but all results and detection limits for trichloroethylene are qualified as estimated (J) with a potential low bias.

4.6 Laboratory Control Sample (LCS) and Duplicates (LCSD) Recoveries and Precision

LCSs are blank spikes prepared by adding known quantities of the target analytes or a representative subset of those analytes to laboratory deionized water. The LCS is passed through the same preparation and analytical procedures as the samples they accompany. LCS recoveries and precision are an indication of the ability of a laboratory to successfully perform an analytical method in an interference-free matrix.

Recoveries of dibromochloromethane demonstrated variability above the control limit (24% RPD vs. limit of 22%RPD) for the LCS/LCSD set associated with the analysis of three September 12, 2012 samples. Variability for recoveries of acetone (52%RPD vs. limit of 35% RPD and 1,2,3-trichloropropane (25% RPD vs. limit ot 20% RPD) were also above variability control limits for the LSD/LSD set associated with September 10 samples. None of these analytes were detected in any program sample and no data have been qualified.

4.7 Surrogate Spike Recoveries

Surrogate spikes are used to evaluate accuracy, method performance, and extraction efficiency in each individual sample. Surrogate compounds are compounds not normally found in environmental samples, but which are similar to target analytes in chemical composition and behavior in the analytical process. TestAmerica utilized toluene-d_8, bromofluorobenzene (BFB) and dibromofluoromethane as surrogates for VOC analyses. All VOC surrogate recoveries were acceptable.

4.8 Matrix Spike and Matrix Spike Duplicate Analyses

MS and MSD samples are prepared by adding known amounts of the analytes to an aliquot of sample. The spiked sample is then processed through the same procedures as the unspiked samples in an analytical batch. MS recovery and precision indicate the laboratory's ability to successfully recover an analyte in the matrix of a specific sample or related sample matrices.

MS/MSD samples accompanying APS samples were prepared from MW3M2-091112, and MW3S-091112. Hexachlorobutadiene recovered above the laboratory limit in the spikes from MW3M2-091112 (156%, 157% vs. limit of 150%). This analyte was not detected in any program sample and no data have been qualified. Recoveries and precision for all COCs were acceptable.

Additional MS/MSD sets accompanying the September 10 and 13, 2012 APS samples were prepared from other program submittals. Recovery of bromodichloromethane was low (57%, 59%) and that for hexachlorobutadiene was high in the MS/MSD accompanying the September 13 samples. Since the sample matrix was not necessarily representative of APS samples and these analytes were not detected in APS samples, no data have been qualified.

4.9 Field Duplicate Results

Field duplicates are replicate samples collected at the same location. Field duplicates provide an indication of the reproducibility of the sampling and analysis procedures for a given sample matrix.

All detections in the duplicate samples fell below 5 times the reporting limit, where precision criteria are not generally applicable. Even at the trace levels present, however, results for detections in the sets of field duplicates collected did demonstrate acceptable precision within QAPP and EPA criteria.

Table 4: Field Duplicate Precision

Well/Sampling Date	MW-6-S 09/12/12			MW-1-S 09/11/12		
	µg/l A	µg/l B	RPD	µg/l A	µg/l B	RPD
Chloroform	0.82	0.65	23%	0.55	0.58	5%
Tetrachloroethene	0.59	0.57	3%	0.54	0.44J	20%
Trichloroethene	0.32J	0.48J	NA	<0.5	<0.5	NA

J = Estimated value, below reporting limit
NA = Not applicable.. RPD not calculated for non-detected results or pairs of estimated results.

4.10 Target Compound Identifications

The raw data for all reported analytes were reviewed to confirm that they met method criteria for positive identification and that there was no evidence of potential interference or carryover from previous samples.

4.11 Reporting Limits

Reporting limits for the COCs satisfy the QAPP requirement of 1 µg/l. Laboratory detection limits were reviewed to verify that reporting limits were established appropriately. Analytes detected below the reporting limit but above the method detection limit were reported and have been qualified as estimated.

4.12 Compound Quantitation

Calculations were verified on a random basis for reported analytes. No errors were detected for analytes quantified on the basis of average response factors.

5.0 SUMMARY AND CONCLUSIONS

Based on the review conducted, the data are usable with some qualifications. The PE result for trichloroethylene requires qualification for results of this analyte as estimated; all other measurements for accuracy, precision and sensitivity met project objectives as defined by the QAPP for the COCs.

6.0 REFERENCES

Arizona Department of Environmental Quality. Arizona laboratory Data Qualifiers. Revision 3, 2007

AMEC Earth and Environmental, Inc. April 22, 2005. *Part 1 - Sampling and Analysis Plan, Focused Remedial Investigation and Feasibility Study Property at 501,502, and 505 South 2nd Avenue in Phoenix, Arizona.*

AMEC Earth and Environmental, Inc. April 22, 2005. *Part 2 - Quality Assurance Project Plan, Revision 1*, *Focused Remedial Investigation and Feasibility Study Property at 501,502, and 505 South 2nd Avenue in Phoenix, Arizona.*

U.S. EPA, 1999. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, EPA540/R-99/008.

U. S. EPA, December 2001. *Region 9 Superfund Data Evaluation/Validation Guidance (EPA R9QA/006.1).*

U.S. EPA March 2006. *USEPA Region 9 Standard Operating Procedure 901: Guidelines for Data Review of Contract Laboratory Program Analytical Services Volatile and Semivolatile Data Packages.* SOP-901 R2, 03/30/06.

7.0 LIMITATIONS

This report was prepared exclusively for Arizona Public Services by AMEC Earth & Environmental, Inc. The quality of information, and conclusions contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation; ii) data supplied by outside sources; and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by Arizona Public Services only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

APPENDIX A

VALIDATED DATA

APS Groundwater Samples
September 2012

ANALYTE	UNITS	FB1-091212		MW1M-091112		MW1M2-091112		MW1S-091112-A	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	7.3 U	E8	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	0.13 U	E8	**0.34** J	E4	**0.24** J	E4	**0.55**	
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

APS Groundwater Samples
September 2012

ANALYTE	UNITS	FB1-091212		MW1M-091112		MW1M2-091112		MW1S-091112-A	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	**0.54**	
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
September 2012

ANALYTE	UNITS	MW1S-091112-B		MW2M-091012		MW2M2-091012		MW2S-091012	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	7.3 U	E8	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	**0.58**		**0.28** J	E4	**0.35** J	E4	**0.36** J	E4
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

APS Groundwater Samples
September 2012

ANALYTE	UNITS	MW1S-091112-B		MW2M-091012		MW2M2-091012		MW2S-091012	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	**0.44** J	E4	0.18 U	E8	0.18 U	E8	**0.69**	
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1	**0.39** J	E4,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
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ANALYTE	UNITS	MW3M-091112		MW3M2-091112		MW3S-091112		MW4M-091212	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	7.3 U	E8	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	**0.35** J	E4	**0.36** J	E4	**0.53**		**0.32** J	E4
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

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ANALYTE	UNITS	MW3M-091112		MW3M2-091112		MW3S-091112		MW4M-091212	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	0.18 U	E8	0.18 U	E8	**0.95**		0.18 U	E8
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1	**1.5** J	N1	0.24 UJ	E8,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
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ANALYTE	UNITS	MW4S-091212		MW5M-091312		MW5M2-091312		MW5S-091312	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	7.3 U	E8	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	**0.39** J	E4	**0.44** J	E4	0.13 U	E8	**0.62**	
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

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ANALYTE	UNITS	MW4S-091212		MW5M-091312		MW5M2-091312		MW5S-091312	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	**0.3** J	E8	0.18 U	E8	0.18 U	E8	**0.38** J	E4
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
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ANALYTE	UNITS	MW6M-091212		MW6M2-091212		MW6S-091212-A		MW6S-091212-B	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	7.3 U	E8	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	**0.47** J	E4	0.13 U	E8	**0.82**		**0.65**	
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

APS Groundwater Samples
September 2012

ANALYTE	UNITS	MW6M-091212		MW6M2-091212		MW6S-091212-A		MW6S-091212-B	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	0.18 U	E8	0.18 U	E8	**0.59**		**0.57**	
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1	**0.32** J	E4,N1	**0.48** J	E4,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
September 2012

ANALYTE	UNITS	MW7S-091212		PE1-091212		Trip Blank 091012		Trip Blank 091112	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E8	7.3 U	E8	**8.9** J	E4	7.3 U	E8
Benzene	ug/l	0.12 U	E8	0.12 U	E8	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	**7.2**		0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	**0.32** J		0.13 U	E8	0.13 U	E8	0.13 U	E8
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8

APS Groundwater Samples
September 2012

ANALYTE	UNITS	MW7S-091212		PE1-091212		Trip Blank 091012		Trip Blank 091112	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	0.18 U	E8	**5.1**		0.18 U	E8	0.18 U	E8
Toluene	ug/l	0.28 U	E8	0.28 U	E8	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	**5.2** J	N1	0.24 UJ	E8,N1	0.24 UJ	E8,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APS Groundwater Samples
September 2012

ANALYTE	UNITS	Trip Blank 091212		Trip Blank 091213	
1,1,1,2-Tetrachloroethane	ug/l	**0.35 U**	**E8**	**0.35 U**	**E8**
1,1,1-Trichloroethane	ug/l	0.15 U	E8	0.15 U	E8
1,1,2,2-Tetrachloroethane	ug/l	0.33 U	E8	0.33 U	E8
1,1,2-Trichloroethane	ug/l	0.31 U	E8	0.31 U	E8
1,1-Dichloroethane	ug/l	0.14 U	E8	0.14 U	E8
1,1-Dichloroethene	ug/l	0.23 U	E8	0.23 U	E8
1,1-Dichloropropene	ug/l	0.2 U	E8	0.2 U	E8
1,2,3-Trichlorobenzene	ug/l	0.45 U	E8	0.45 U	E8
1,2,3-Trichloropropane	ug/l	0.78 U	E8	0.78 U	E8
1,2,4-Trichlorobenzene	ug/l	0.32 U	E8	0.32 U	E8
1,2,4-Trimethylbenzene	ug/l	0.25 U	E8	0.25 U	E8
1,2-Dibromo-3-chloropropane	ug/l	0.82 U	E8	0.82 U	E8
1,2-Dibromoethane (EDB)	ug/l	0.3 U	E8	0.3 U	E8
1,2-Dichlorobenzene	ug/l	0.22 U	E8	0.22 U	E8
1,2-Dichloroethane	ug/l	0.31 U	E8	0.31 U	E8
1,2-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8
1,3,5-Trimethylbenzene	ug/l	0.21 U	E8	0.21 U	E8
1,3-Dichlorobenzene	ug/l	0.14 U	E8	0.14 U	E8
1,3-Dichloropropane	ug/l	0.23 U	E8	0.23 U	E8
1,4-Dichlorobenzene	ug/l	0.17 U	E8	0.17 U	E8
2,2-Dichloropropane	ug/l	0.18 U	E8	0.18 U	E8
2-Butanone (MEK)	ug/l	2.2 U	E8	2.2 U	E8
2-Chlorotoluene	ug/l	0.17 U	E8	0.17 U	E8
2-Hexanone	ug/l	1.5 U	E8	1.5 U	E8
4-Chlorotoluene	ug/l	0.2 U	E8	0.2 U	E8
4-Methyl-2-pentanone (MIBK)	ug/l	1.3 U	E8	1.3 U	E8
Acetone	ug/l	7.3 U	E4	7.3 U	E4
Benzene	ug/l	0.12 U	E8	0.12 U	E8
Bromobenzene	ug/l	0.14 U	E8	0.14 U	E8
Bromochloromethane	ug/l	0.27 U	E8	0.27 U	E8
Bromodichloromethane	ug/l	0.23 U	E8	0.23 U	E8
Bromoform	ug/l	0.37 U	E8	0.37 U	E8
Bromomethane	ug/l	0.67 U	E8	0.67 U	E8
Carbon disulfide	ug/l	0.86 U	E8	0.86 U	E8
Carbon tetrachloride	ug/l	0.15 U	E8	0.15 U	E8
Chlorobenzene	ug/l	0.17 U	E8	0.17 U	E8
Chloroethane	ug/l	0.25 U	E8	0.25 U	E8
Chloroform	ug/l	0.13 U	E8	0.13 U	E8
Chloromethane	ug/l	0.21 U	E8	0.21 U	E8

APS Groundwater Samples
September 2012

ANALYTE	UNITS	Trip Blank 091212		Trip Blank 091213	
cis-1,2-Dichloroethene	ug/l	0.21 U	E8	0.21 U	E8
cis-1,3-Dichloropropene	ug/l	0.14 U	E8	0.14 U	E8
Dibromochloromethane	ug/l	0.22 U	E8	0.22 U	E8
Dibromomethane	ug/l	0.26 U	E8	0.26 U	E8
Dichlorodifluoromethane	ug/l	0.15 U	E8	0.15 U	E8
Ethylbenzene	ug/l	0.32 U	E8	0.32 U	E8
Hexachlorobutadiene	ug/l	0.28 U	E8	0.28 U	E8
Iodomethane	ug/l	0.21 U	E8	0.21 U	E8
Isopropylbenzene	ug/l	0.26 U	E8	0.26 U	E8
Methylene Chloride	ug/l	0.67 U	E8	0.67 U	E8
Methyl-tert-butyl Ether (MTBE)	ug/l	0.22 U	E8	0.22 U	E8
Naphthalene	ug/l	0.51 U	E8	0.51 U	E8
n-Butylbenzene	ug/l	0.21 U	E8	0.21 U	E8
n-Propylbenzene	ug/l	0.21 U	E8	0.21 U	E8
p-Isopropyltoluene	ug/l	0.21 U	E8	0.21 U	E8
sec-Butylbenzene	ug/l	0.23 U	E8	0.23 U	E8
Styrene	ug/l	0.17 U	E8	0.17 U	E8
tert-Butylbenzene	ug/l	0.25 U	E8	0.25 U	E8
Tetrachloroethene	ug/l	0.18 U	E8	0.18 U	E8
Toluene	ug/l	0.28 U	E8	0.28 U	E8
trans-1,2-Dichloroethene	ug/l	0.29 U	E8	0.29 U	E8
trans-1,3-Dichloropropene	ug/l	0.47 U	E8	0.47 U	E8
Trichloroethene	ug/l	0.24 UJ	E8,N1	0.24 UJ	E8,N1
Trichlorofluoromethane	ug/l	0.15 U	E8	0.15 U	E8
Vinyl Acetate	ug/l	0.81 U	E8	0.81 U	E8
Vinyl chloride	ug/l	0.18 U	E8	0.18 U	E8
Xylenes, Total	ug/l	0.86 U	E8	0.86 U	E8

U = Non-detected
UJ = Non-detected, estimated reporting limit
J = Estimated result

E8 = Reported to detection limit
E4 =Detected below method reporting limit
N1 = See report narrative

APPENDIX B

VALIDATION QUALIFIERS

USEPA VALIDATION DATA QUALIFIER DEFINITIONS

U The U qualifier indicates that the analyte must be considered to be nondetected at the concentration listed. U qualifiers added during validation are typically a result of detection of target analytes in field, trip, or laboratory blanks.

J The J qualifier indicates that the associated result is quantitatively uncertain. J qualifiers added during validation indicate a data limitation related to a QC element that exceeds required acceptance limits.

UJ The UJ qualifier indicates that the associated analyte was not detected at or above the method detection limit (MDL). However, the reported MDL is approximate and may be inaccurate or imprecise.

N The N qualifier indicates an analyte has been presumptively identified. Presumptive detection means that a chromatographic peak was detected at the correct retention time for an analyte, but that not all required identification criteria were met. The associated result is both qualitatively and quantitatively uncertain.

R The R qualifier indicates that a result has been rejected due to serious QC problems. It is not possible to definitively determine whether the analyte is present or absent in the sample.

Arizona Data Qualifiers Established By
The Arizona Department of Health Services

Revision 3.0

Qualifier	Meaning
Microbiology	
A1	Too numerous to count
A2	Sample incubation period exceeded method requirement
A3	Sample incubation period was shorter than method requirement
A4	Target organism detected in associated method blank
A5	Incubator/water bath temperature was outside method requirements
A6	Target organism not detected in associated positive control
A7	Micro sample received without adequate headspace
A8	Plate count was outside the method's reporting range. Reported value is estimated.
Method/Calibration Blank	
B1	Target analyte detected in method blank at or above the method reporting limit
B2	Non-target analyte detected in method blank and sample, producing interference
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	Target analyte detected in blank at/above method acceptance criteria
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL
B6	Target analyte detected in calibration blank at or above the method reporting limit, but below trigger level or MCL
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank

Qualifier	Meaning
Microbiology	
A1	Too numerous to count
A2	Sample incubation period exceeded method requirement
A3	Sample incubation period was shorter than method requirement
A4	Target organism detected in associated method blank
A5	Incubator/water bath temperature was outside method requirements
A6	Target organism not detected in associated positive control
A7	Micro sample received without adequate headspace
Method/Calibration Blank	
B1	Target analyte detected in method blank at or above the method reporting limit
B2	Non-target analyte detected in method blank and sample, producing interference
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	Target analyte detected in blank at/above method acceptance criteria
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL
B6	Target analyte detected in calibration blank at or above the method reporting limit, but below trigger level or MCL
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank
Confirmation	
C1	Confirmatory analysis not performed as required by the method
C3	Qualitative confirmation performed
C4	Confirmatory analysis was past holding time
C5	Confirmatory analysis was past holding time
C6	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per

	EPA Method 8000B, the higher value was reported as there was not obvious chromatographic interference
C7	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic interference
Dilution	
D1	Sample required dilution due to matrix
D2	Sample required dilution due to high concentration of target analyte
D3	Sample dilution required due to insufficient sample
D4	Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed
Estimated Concentration	
E1	Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL)
E5	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but not confirmed by alternate analysis
E6	Concentration estimated. Internal standard recoveries did not meet method acceptance criteria
E7	Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample
Hold Time	
H1	Sample analysis performed past holding time.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past

	holding time
H3	Sample was received and analyzed past holding time
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time
BOD	
K1	The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value
K2	The sample dilutions set-up for the BOD analysis did not meet the criteria of a residual dissolved oxygen of at least 1 mg/L. Any reported result is an estimated value
K4	The seed depletion was outside the method acceptance limits. The reported result is an estimated value
K5	The dilution water D.O. depletion was > 0.2 mg/L
K6	Glucose/glutamic acid BOD was below method acceptance criteria
K7	A discrepancy between the BOD and COD results has been verified by reanalysis of the sample of COD
K8	Glucose/glutamic acid BOD was above method acceptance levels
Laboratory Fortified Blank/Blank Spike	
L1	The associated blank spike recovery was above laboratory acceptance limits
L2	The associated blank spike recovery was below laboratory acceptance limits
L3	The associated blank spike recovery was above method acceptance limits
L4	The associated blank spike recovery was below method acceptance limits
Matrix Spike	
M1	Matrix spike recovery was high, the method control sample recovery was acceptable
M2	Matrix spike recovery was low, the method control sample recovery was acceptable
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable
M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample

	recovery was acceptable
M5	Analyte concentration was determined by the method of standard addition (MSA)
M6	Matrix spike recovery was high. Data reported per ADEQ policy 0154.000
M7	Matrix spike recovery was low. Data reported per ADEQ policy 0154.000
General	
N1	See case narrative
N2	See corrective action report
N3	The analysis meets all method requirements. See case narrative
Sample Quality	
Q1	Sample integrity was not maintained. See case narrative
Q2	Sample received with head space
Q3	Sample received with improper chemical preservation
Q4	Sample received and analyzed without chemical preservation
Q5	Sample received with inadequate chemical preservation, but preserved by the laboratory
Q6	Sample was received above recommended temperature
Q7	Sample inadequately dechlorinated
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfies ADEQ policies 0154 and 0155
Q9	Insufficient sample received to meet method QC requirements
Q10	Sample received in inappropriate sample container
Q11	Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices
Duplicates	
R1	RPD exceeded the method control limit. See case narrative
R2	RPD exceeded the laboratory control limit. See case narrative
R4	MS/MSD RPD exceeded the method control limit. Recovery met acceptance criteria
R5	MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance

	criteria
R6	LFB/LFBD RPD exceeded the method control limit. Recovery met acceptance criteria
R7	LFB/LFBD RPD exceeded the laboratory control limit. Recovery met acceptance criteria
R8	Sample RPD exceeded the method control limit
R9	Sample RPD exceeded the laboratory control limit
R10	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic problems
R11	The RFD calculation for MS/MSD does not provide useful information due to the varying sample weights when Encore samplers/methanol field preserved samples are used
Surrogates	
S1	Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits
S3	Surrogate recovery was above laboratory acceptance limits, but within method acceptance limits. No target analytes were detected in the sample
S4	Surrogate recovery was above laboratory method acceptance limits. No target analytes were detected in the sample
S5	Surrogate recovery was below laboratory acceptance limits, but within method acceptance limits
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect
S7	Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect
S8	The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide any useful information. The method control sample recovery was acceptable
S10	Surrogate recovery was above laboratory and method acceptance limits. See case narrative
S11	Surrogate recovery was high. Data reported per ADEQ policy 154.000
S12	Surrogate recovery was low. Data reported per ADEQ policy 154.000

Method/Analyte Discrepancies	
T1	Method approved by EPA, but not yet licensed by ADHS.
T2	Cited ADHS licensed method does not contain this analyte as part of method compound list
T3	Method not promulgated either by EPA or ADHS
T4	Tentatively identified compound. Concentration is estimated and based on the closest internal standard
Calibration Verification	
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample
V2	CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample
V3	CCV recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed. See case narrative
V4	CCV recovery was below method acceptance limits. The sample could not be reanalyzed due to insufficient sample
V5	CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B
V6	Data reported from one-point calibration criteria per ADEQ policy 155.000
V7	Calibration verification recovery was above the method control limit for this analyte, however, the average % difference or % drift for al the analytes met method criteria
V8	Calibration verification recovery was below the method control limit for this analyte, however the aver % difference or the % drift for all the analytes met method criteria
Calibration	
W1	The % RSD for this compound was above 20%. The average % RSD for all compounds in the calibration met the 20% criteria as specified in EPA Method 8000B
W2	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria as specified in EPA method 8260B/8270C

APPENDIX C

PERFORMANCE EVALUATION SAMPLE CERTIFIED RESULTS

ERA

A Waters Company

September 14, 2012

Laura Menken
AMEC Environmental & Infrastructure
4600 E. Washington St, ste 600
Phoenix, AZ 85034

Dear Laura:

Enclosed please find the certification documentation for the whole volume performance evaluation samples that you recently ordered. The samples were shipped on September 11, 2012 via FedEx Priority Overnight service to your attention. The ERA project number corresponding to these samples is 0810-12-03.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance please do not hesitate to call.

Sincerely,

Chad Lane
Chemist

enclosures
cl

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800.372.0122 ■ 303.431.8454 ■ fax 303.421.0159 ■ www.eraqc.com

ERA

A Waters Company

COPY

ERA, A Waters Company

Sample Identification and Chain of Custody Form

Ship to: AMEC E & I 4600 E Washington St. ste 600 Phoenix, AZ 85034 **Phone:** 602 733-6069 **Fax:** 602 733-6100 **Attention:** Laura Menken	**Ship from:** ERA, A Waters Company 16341 Table Mountain Parkway Golden, CO 80403 **Phone:** 800-372-0122 or 303-431-8454 **Fax:** 303-421-0159 **Contact:** Chad Lane

Sample Description	Sample Identification	Sample Date	Sample Type	# of Containers	Preservative
Volatiles	0810-12-03	9/11/2012	Aqueous	3 x 40 ml	HCl

		Condition of Contents
Relinquished by: Chad Lane	Date/Time: 9-11-12 1600	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

ERA

A Waters Company

AMEC Environmental & Infrastructure

Account No. A796023

Catalog No. 093 Custom Standard **Sample ID # 0810-12-03**

Volatiles by 8260B

Parameter	Certified Value (µg/L)	Performance Acceptance Limits™ (µg/L)
Carbon tetrachloride	7.51	4.87 - 9.40
Tetrachloroethylene	7.20	4.54 - 8.62
Trichloroethylene	7.27	5.38 - 8.72

Standard Preparation Instructions: None required. This sample is ready for preparation and analysis as received.

Preservative: HCl.

The **Certified Values** are equal to 100% of the "made to" values as determined by volumetric and/or gravimetric measurements used during the manufacture of this product.

The ***Performance Acceptance Limits (PALs™)*** are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The ***PALs™*** are based on analytical verification data generated by ERA, independent referee laboratory results and data from USEPA methods, WP, WS and CLP interlaboratory studies. Recovery and advisory range data for these studies are based on ERA's normal manufacturing ranges. **The *PALs™* listed for this project may not be applicable since the analyte concentrations are outside of ERA's normal manufacturing ranges and a linear relationship to the concentration listed has not been established.** If your result falls outside of the ***PALs™***, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

Prepared by: CZ

Date: 9-14-12

Reviewed by: JML

Date: 9/18/12

16341 Table Mountain Pkwy ■ Golden, CO 80403 ■ 800.372.0122 ■ 303.431.8454 ■ fax 303.421.0159 ■ www.eraqc.com

Appendix D

LABORATORY CORRECTIVE ACTION REPORTS AND PE SAMPLE RESULT INVESTIGATIONS

Hoyt, Marilyn P

From: Spencer, Melissa [Melissa.Spencer@testamericainc.com]
Sent: Thursday, December 13, 2012 6:20 PM
To: Hoyt, Marilyn P
Cc: Judith.Heywood@aps.com; Menken, Laura; Emily, Kylie; Kusma, Shawn; Penfold, Larry
Subject: TestAmerica response to data validation questions
Attachments: Corrective Action Report #18085.pdf; Corrective Action for logbook documentation error.pdf; Daily Log Summary - sample IDs corrected.pdf; Corrective Action Report #18083.pdf; Analyst documentation of ID confirmation.pdf; Revised COC PVI0717.pdf

Dear Marilyn,

During a conference call that you had with Kylie Emily on 12/11/12 you brought up some issues that you found with the data package for TestAmerica work order PVI0717. The issues and our responses to them are as follows:

- ***The daily log summary for GC/MS 2 from 09/14/12 listed samples PVI0714-04 through -09 for data files named 09141214 through 19 but the Instrument Injection Log listed samples PVI0717-04 through -09 for those data files.***

  This was an analyst transcription error and was an oversight by the second level reviewer. Samples PVI0714-04 through -09 do not exist in Element therefore we have concluded that the injection log was correct. As a corrective action for this issue an email was sent to all Volatiles analysts as a reminder to double-check that the injection log and daily run log match. See the attached documents "Corrective Action Report #18085", "Corrective Action for logbook documentation error" and "Daily Log Summary - sample IDs corrected" for more information.

- ***The Chain of Custody indicated that samples with client IDs MW6S-091212-A and MW6S-091212-B had the LIMS ID PVI0717-03. The Final Report indicated that MW6S-091212-A was PVI0717-03 and MW6S-091212-B was PVI0717-10. It was explained that the log-in error was caught and fixed in the LIMS but no documentation of this could be found.***

  This was due to Project Manager oversight. The appropriate steps were taken to fix the mistake but the documentation was not completed. After you notified us about the oversight the Chain of Custody was fixed and rescanned into the folder containing PDF COCs and the analyst that had originally verified the client IDs with the Project Manager after the error was discovered documented this in the daily log summary for the day sample PVI0717-03 was analyzed. Also, a corrective action report was written to document the discrepancy, the causes and corrective actions taken. See the attached documents "Corrective Action Report #18083", "Analyst documentation of ID confirmation" and "Revised COC PVI0717" for more information.

- ***The blind Proficiency sample (PVI0717-06) results were outside of the acceptance range for Trichlorethylene.***

  An investigation into the possible causes for the unacceptable Proficiency sample results was started on 12/12/12. The steps in the investigation are as follows:

  - All associated batch QC and the calibration were examined and no obvious problems were discovered.
  - A review of our proficiency testing results for 8260 analysis over the last two years showed that we had no unacceptable results for Trichlorethylene.
  - A few members of the TestAmerica Tech Contacts group communicated with me about possible sources of the issue. The possibilities were investigated and discarded as not applicable or very unlikely.
  - I spoke with Chad Lane from ERA on 12/12/12 about their Proficiency Sample preparation process as this can have impact on the validity of the proficiency sample.

- The two unopened vials of sample PVI0717-06 were found to still be under refrigerated storage conditions. One of the vials will be re-analyzed and the other vial is being shipped to the TestAmerica Denver laboratory for analysis there. A comparison of the results from the two labs will hopefully be completed by 12/21/12.
- A known Proficiency sample for 8260 will be ordered on 12/14/12 and will be analyzed by 12/28/12.

When the investigation of the unacceptable proficiency sample result is finished I will email you with a summary of our findings. I expect to have this completed by 01/04/12.

If you have any questions or would like to discuss any of these items further please feel free to contact me directly.

Thanks,
Melissa

Melissa Spencer

Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd., Suite 189
Phoenix, AZ 85040
Tel 602.437.3340| Fax 602.454.9303.
www.testamericainc.com

INTERNAL CORRECTIVE ACTION REPORT #18,083

Date Entered: 12/13/2012 8:58:38 AM
Entered By: Kylie Emily
Employee:
Department: Project Management

Instrument: NONE

Status: PM Review
Client Complaint: [X] Follow Up: [ ]
Internal Audit: [ ] PT Sample: [ ]
CAR Type: Internal
Date of Occurrence: 12/13/2012

ISSUE

Level II - Client Complaint

Two different client samples were logged into the Laboratory Information Management System (LIMS) as one sample. The mistake was caught and fixed in the LIMS but there was no documentation of the process and the chain of custody was not corrected. The client questioned why the LIMS sample IDs listed on the chain of custody did not match the final report. When it was explained the client questioned why there was no documentation of the changes.

ISSUE CAUSE

Employee Oversight

See Employee oversight section for the cause of the sample receiving log-in error.

The mistake was not noticed in the initial log-in review. The PM caught the error a few days later and verified with the lab which VOA vial had been analyzed. The VOA vial with enough sample volume removed for analysis of the sample and the MS/MSD was client ID MW6S-091212-A. The sample that had not been analyzed, client ID MW6S-091212-B was logged in as sample -10 and all VOA vials were labeled as PVI0717-10. The PM forgot to document the changes to the LIMS IDs and the reason why on the chain of custody.

EMPLOYEE OVERSIGHT

Basic oversight

The employee who logged the samples in the LIMS did not notice the letter at the end of the client ID was different and assumed the sample name had been written twice because there were extra VOA vials for analyzing the MS/MSD. The employee who performed the initial log-in review also overlooked the different IDs.

INTERNAL CORRECTIVE ACTION

Other (see description)

The QA manager and the analyst reconfirmed the labeling of the VOA vials on 12/13/12. The sample with the client ID MW6S-091212-A was labeled as PVI0717-03. The sample with client ID MW6S-091212-B was labeled as PVI0717-10.

In the future the PM will note all corrections to log-in errors related to the LIMS IDs on the chain of custody and scan the revised version of it into the system. Further explanation of the changes that are made will be documented in the folder for the Work Order or in the LIMS.

RESOLUTION

Date Resolved:

Data not flagged. For internal documentation. See Internal Corrective Action page for additional discussion.

Initiating Supervisor: Elizabeth Baker
[X] Acknowledged
Date Acknowledged: 12/13/2012

Issue Dept. Supervisor: Elizabeth Baker
[X] Acknowledged
Date Acknowledged: 12/13/2012

QA Person: Melissa Spencer
[X] Acknowledged
Date Acknowledged: 12/13/2012

Batches/ Work Orders Involved in CAR

PVI0717

Clients Involved in CAR

Work Order	Client	Project	Project Number	Project Manager
PVI0717	APS-Corporate	APS 501,502, & 505	APS 501,502, & 505	Kylie Emily

Batches/ Work Orders Involved in CAR

Batch/Work	Sample	Matrix	Analysis	Analyte
PVI0717	10	Water	**ALL**	**ALL**
PVI0717	03	Water	**ALL**	**ALL**

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3

Phoenix, AZ 85040
phone 602.437.3340 fax 623.445.6192

Chain of Custody Record PVI0717

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Judy Heywood	Site Contact: Laura Menken	Date: 9/12/12	COC No:
Arizona Public Service-Corporate	Email: judith.heywood@aps.com	Lab Contact: Kylie Emily	Carrier:	1 of ____ COCs
P.O. Box 53999 M/S 8376	Analysis Turnaround Time			Job No.
Phoenix, AZ 85072-3999	Calendar (C) or Work Days (W) ____			
(602) 250-3850 Phone	TAT if different from Below ____			SDG No.
(602) 250-3872 FAX	☑ Standard			
Project Name:	☐ 1 week			
Use Project: APS 501, 502, and 505	☐ 2 days			
P O # 650510472	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - 8260 J Flags/MDLS	Use this sample for MS/MSD	Level IV Data Package	Sample Specific Notes:
TRIP BLANK	—	—		W	1		X		X	-01
MW6M2-091212	9/12/12	9:03	GW	W	3		X		X	-02
MW6S-091212-A	9/12/12	9:38	GW	W	3		X		X	1w12/13/12 -03
MW6S-091212-B	9/12/12	9:45	GW	W	3		X		X	~~-03~~ ~~-04~~ -10
MW6M-091212	9/12/12	11:30	GW	W	3		X		X	~~-05~~ -04
FB1-091212	9/12/12	11:15	W	W	3		X		X	~~-06~~ -05
PE1-091212	9/12/12	12:27	W	W	3		X		X	~~-07~~ -06
MW4M-091212	9/12/12	13:10	GW	W	3		X		X	~~-08~~ -07
MW4S-091212	9/12/12	13:45	GW	W	3		X		X	~~-09~~ -08
MW7S-091212	9/12/12	14:40	GW	W	3		X		X	~~-10~~ -09
										9/12/12

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Special Instructions/QC Requirements & Comments: ***Perform batch QC on these samples. MS/MSD indicated on COC. A full Level IV QC Data Package is required. LabSpec7 and Standard EDD required to Laura Menken at AMEC. Copy of COC w/invoice. Email results to judith.heywood@aps.com, laura.menken@amec.com, neal.brown@aps.com, Dave.Allard@CH2M.com.***

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Shenelle L Wes	AMEC	9/12/12 15:51			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9/12/12 15:51

2.1°C

INTERNAL CORRECTIVE ACTION REPORT #18,085

Date Entered: 12/13/2012 9:42:37 AM
Entered By: Shawn Kusma
Employee: Shawn Kusma
Department: GCMS Volatiles

Instrument: GCMS2

Status: PM Review
Client Complaint: ☐ Follow Up: ☐
Internal Audit: ☐ PT Sample: ☐
CAR Type: Internal
Date of Occurrence: 09/14/2012

ISSUE

Documentation missing or incorrect
The incorrect work order (PVI0714) is documented in the hand-written sequence log - the electronic version has the correct work order (PVI0717).

ISSUE CAUSE

Employee Oversight

EMPLOYEE OVERSIGHT

Basic oversight
The analyst and the data reviewer missed the incorrect work order number that was listed for PVI0717-04 to -09 in the Daily Log Summary. In the log it is listed as PVI0714-04 to -09. The correct work order (PVI0717) is provided in the electronic Injection Log.

INTERNAL CORRECTIVE ACTION

Other (see description)
The correct work order has been added in the Daily Log Summary with date and initial for the correction. In addition, an e-mail has been sent to the department as a reminder to follow proper procedures in reviewing log book entries.

PVI0714 has only two samples associated with the work order. PVI0714-01 submitted with a 500ml Poly w/HNO3 for ICPMS analysis and PVI0714-02 submitted with a Bacti Bottle for Total Coliform analysis. Therefore, it is not possible to analyze PVI0714-04 to -09 for 8260 analysis.

RESOLUTION

Date Resolved:

Data not flagged. For internal documentation. See Internal Corrective Action page for additional discussion.

Initiating Supervisor: Shawn Kusma
☒ Acknowledged
Date Acknowledged: 12/13/2012

Issue Dept. Supervisor: Shawn Kusma
☒ Acknowledged
Date Acknowledged: 12/13/2012

QA Person: Melissa Spencer
☒ Acknowledged
Date Acknowledged: 12/13/2012

Batches/ Work Orders Involved in CAR

PVI0717

Clients Involved in CAR

Work Order	Client	Project	Project Number	Project Manager
PVI0717	APS-Corporate	APS 501,502, & 505	APS 501,502, & 505	Kylie Emily

Batches/ Work Orders Involved in CAR

Batch/Work	Sample	Matrix	Analysis	Analyte
PVI0717	09	Water	8260 (AMEC - APS)	**ALL**
PVI0717	08	Water	8260 (AMEC - APS)	**ALL**
PVI0717	07	Water	8260 (AMEC - APS)	**ALL**
PVI0717	06	Water	8260 (AMEC - APS)	**ALL**
PVI0717	05	Water	8260 (AMEC - APS)	**ALL**
PVI0717	04	Water	8260 (AMEC - APS)	**ALL**

TestAmerica
Phoenix

GC/MS 2 DAILY LOG SUMMARY

DATE: 091612 QC BATCH # (s) : 12I0539

ANALYST: EH SEQUENCE FILE: C:\GCMS2\DATA\ 091612.S

CALIBRATION METHOD(S): 081012.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL 10 ml √ if OK	pH ≤ 2 √ if OK	EPA METHOD	MATRIX	COMMENTS
1	091612 01	tune	2 ul	NA	8260/624	NA	
2	02	25 ppb CCV	✓			H2O	
3	03	12I0539 -BS1	✓				
4	04	-BSD1	✓				
5	05	-BIK1	✓				
6	06	PVI0640-09A	✓	✓			TB
7	07	0717-01A	✓	✓			TB
8	08	0719-02A	✓	✓			RB
9	09	0720-03A	✓	✓			TB
10	10	0717-02A	✓	✓			* Confirmed client JD w/ PM at det. Fridge LC 12/31
11	11	-03A*	✓	✓			Same
12	12	12I0539-MS1	✓	✓			
13	13	-MSD1	✓	✓			
14	14	PVI0640-05A	✓	✓			
15	15	0729-01A	✓	✓			
16	16	0678-01K	✓	7			All 3 vials pH 7
17	17	0719-01A	✓	✓			
18	18	0728-02A	✓	✓			
19	19	-03A	✓	✓			
20	20	-04A	✓	✓			
21	21	-05A	✓	✓			
22	22	0720-01 *	✓	✓			* composite: ADGJ
23	23	-02 *	✓	✓			Archon shipped * composite ADGJ

[illegible] 09/16/12

STANDARD ID NUMBERS

ICV / H_2O LCS: PV05604 / 5577

CCV/CALIBRATION STD: PV05635 / 5431

Internal Std: PV05519

IS/Surrogate/BFB: PV05503 / PV05230

REQUIRED REVIEWS

25 ppb CCV PREPARATION: Std CW std's d std std's → iCpd Hel

20 ppb CCV PREPARATION: NA

ARCHON REVIEWED By/Date: MM 9/17/12

SEQUENCE REVIEWED By/Date:

FINAL REVIEWER / Date:

Hoyt, Marilyn P

From: Spencer, Melissa [Melissa.Spencer@testamericainc.com]
Sent: Monday, January 07, 2013 12:09 PM
To: Menken, Laura; Hoyt, Marilyn P
Cc: Judith.Heywood@aps.com; Kusma, Shawn; Penfold, Larry; Emily, Kylie
Subject: RE: TestAmerica response to data validation questions
Attachments: Results comparison PVI0717-06.xls; QC sample PVL1328.xls

Hi Laura and Marilyn,

Attached are result summaries from the re-analysis of blind proficiency sample PVI0717-06 as well as the analysis of a QC sample we purchased from Phenova. The analyst was instructed to prepare and analyze the QC sample two times. The first preparation was done using 1/10th of the amount described in the instructions and the second preparation was done using half of the amount described in the instructions. The dilutions were performed so that the concentration levels of Trichloroethylene, Tetrachloroethylene and Carbon Tetrachloride would be similar to the levels found in sample PVI0717-06. The Trichloroethylene results in both the QC sample from Phenova as well as the re-analysis of PVI0717-06 were well within the acceptance ranges.

No evidence of systematic low bias was found during the investigation of the Trichloroethylene result that was outside the ERA performance limits range. As stated in my previous email there were no problems with the associated QC or calibration and no trends were found in our PT results over the last two years. Upon completion of this investigation the most likely explanation for the unacceptable Trichloroethylene result appears to be that it was an anomaly. In order to ensure that this is the case we will continue to monitor the situation.

Please let me know if you have any questions or would like any additional information.

Kind regards,
Melissa

Melissa Spencer

Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd., Suite 189
Phoenix, AZ 85040
Tel 602.437.3340| Fax 602.454.9303.
www.testamericainc.com

From: Menken, Laura [mailto:Laura.Menken@amec.com]
Sent: Thursday, January 03, 2013 8:24 AM
To: Spencer, Melissa; Hoyt, Marilyn P; Emily, Kylie
Cc: Judith.Heywood@aps.com; Kusma, Shawn; Penfold, Larry
Subject: RE: TestAmerica response to data validation questions

Hi Melissa and Kylie. I hope you had a great holiday.

I wanted to check in on the results and reporting of the proficiency sample results. Are we on track to receive results tomorrow as planned?

Laura Menken, PG | Hydrogeologist
AMEC, Environment & Infrastructure
4600 E. Washington Street, Suite 600 | Phoenix, Arizona 85034 USA
Main: 602-733-6000 | Direct: 602.733.6069 | Cell: 217.816.2414
E Mail: laura.menken@amec.com | Web: amec.com
Please consider the environment before printing this email.

From: Spencer, Melissa [mailto:Melissa.Spencer@testamericainc.com]
Sent: Thursday, December 13, 2012 5:20 PM
To: Hoyt, Marilyn P
Cc: Judith.Heywood@aps.com; Menken, Laura; Emily, Kylie; Kusma, Shawn; Penfold, Larry
Subject: TestAmerica response to data validation questions

Dear Marilyn,

During a conference call that you had with Kylie Emily on 12/11/12 you brought up some issues that you found with the data package for TestAmerica work order PVI0717. The issues and our responses to them are as follows:

- ***The daily log summary for GC/MS 2 from 09/14/12 listed samples PVI0714-04 through -09 for data files named 09141214 through 19 but the Instrument Injection Log listed samples PVI0717-04 through -09 for those data files.***

  This was an analyst transcription error and was an oversight by the second level reviewer. Samples PVI0714-04 through -09 do not exist in Element therefore we have concluded that the injection log was correct. As a corrective action for this issue an email was sent to all Volatiles analysts as a reminder to double-check that the injection log and daily run log match. See the attached documents "Corrective Action Report #18085", "Corrective Action for logbook documentation error" and "Daily Log Summary - sample IDs corrected" for more information.

- ***The Chain of Custody indicated that samples with client IDs MW6S-091212-A and MW6S-091212-B had the LIMS ID PVI0717-03. The Final Report indicated that MW6S-091212-A was PVI0717-03 and MW6S-091212-B was PVI0717-10. It was explained that the log-in error was caught and fixed in the LIMS but no documentation of this could be found.***

  This was due to Project Manager oversight. The appropriate steps were taken to fix the mistake but the documentation was not completed. After you notified us about the oversight the Chain of Custody was fixed and rescanned into the folder containing PDF COCs and the analyst that had originally verified the client IDs with the Project Manager after the error was discovered documented this in the daily log summary for the day sample PVI0717-03 was analyzed. Also, a corrective action report was written to document the discrepancy, the causes and corrective actions taken. See the attached documents "Corrective Action Report #18083", "Analyst documentation of ID confirmation" and "Revised COC PVI0717" for more information.

- ***The blind Proficiency sample (PVI0717-06) results were outside of the acceptance range for Trichlorethylene.***

  An investigation into the possible causes for the unacceptable Proficiency sample results was started on 12/12/12. The steps in the investigation are as follows:

- All associated batch QC and the calibration were examined and no obvious problems were discovered.
- A review of our proficiency testing results for 8260 analysis over the last two years showed that we had no unacceptable results for Trichlorethylene.
- A few members of the TestAmerica Tech Contacts group communicated with me about possible sources of the issue. The possibilities were investigated and discarded as not applicable or very unlikely.
- I spoke with Chad Lane from ERA on 12/12/12 about their Proficiency Sample preparation process as this can have impact on the validity of the proficiency sample.
- The two unopened vials of sample PVI0717-06 were found to still be under refrigerated storage conditions. One of the vials will be re-analyzed and the other vial is being shipped to the TestAmerica Denver laboratory for analysis there. A comparison of the results from the two labs will hopefully be completed by 12/21/12.
- A known Proficiency sample for 8260 will be ordered on 12/14/12 and will be analyzed by 12/28/12.

When the investigation of the unacceptable proficiency sample result is finished I will email you with a summary of our findings. I expect to have this completed by 01/04/12.

If you have any questions or would like to discuss any of these items further please feel free to contact me directly.

Thanks,
Melissa

Melissa Spencer

Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd., Suite 189
Phoenix, AZ 85040
Tel 602.437.3340| Fax 602.454.9303.
www.testamericainc.com

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Results for PE sample PVI0717-06

	ERA Certified value (ug/L)	ERA Performance limits	Phoenix results 09/14/12 (ug/L)	Phoenix results 12/15/12 (ug/L)	Denver Results 12/17/12 (ug/L)
Carbon Tetrachloride	7.51	4.87 - 9.40	7.2	7.84	6.69
Tetrachloroethylene	7.2	4.54 - 8.62	5.1	5.97	5.13
Trichlorethylene	7.27	5.38 - 8.72	5.2	6.68	5.62

Results for QC Sample from Phenova (Lot#8118-26) analyzed 01/03/13								
	Phenova Certified value (ug/L)			Phenova acceptance limits			TestAmerica Phoenix results (ug/L)	
Analyte	PT Concentrate prepared according to directions	PT Concentrate prepared at 2x	PT Concentrate prepared at 10x	PT Concentrate prepared according to directions	PT Concentrate prepared at 2x	PT Concentrate prepared at 10x	PT Concentrate prepared at 2x	PT Concentrate prepared at 10x
Carbon Tetrachloride	11.5	5.75		6.86 - 16.2	3.43 - 8.1		7.4	
Tetrachloroethylene	117		11.7	66.6 - 152		6.66 - 15.2		11
Trichlorethylene	78.8		7.88	50.1 - 102		5.01 - 10.2		8.6