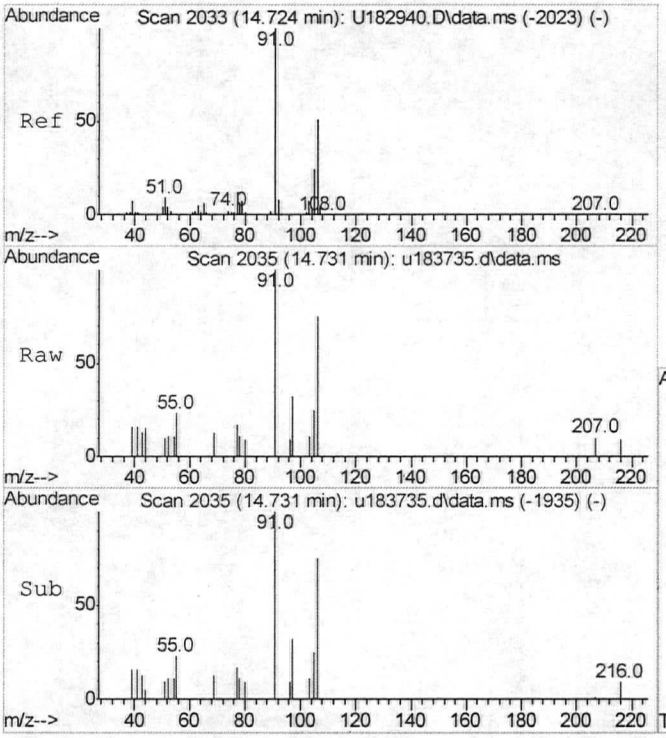
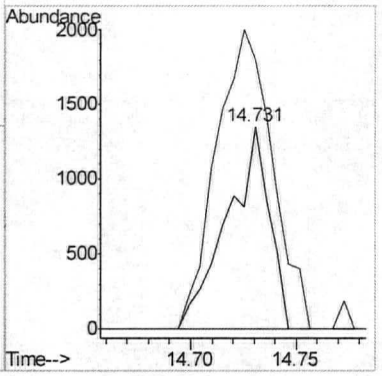
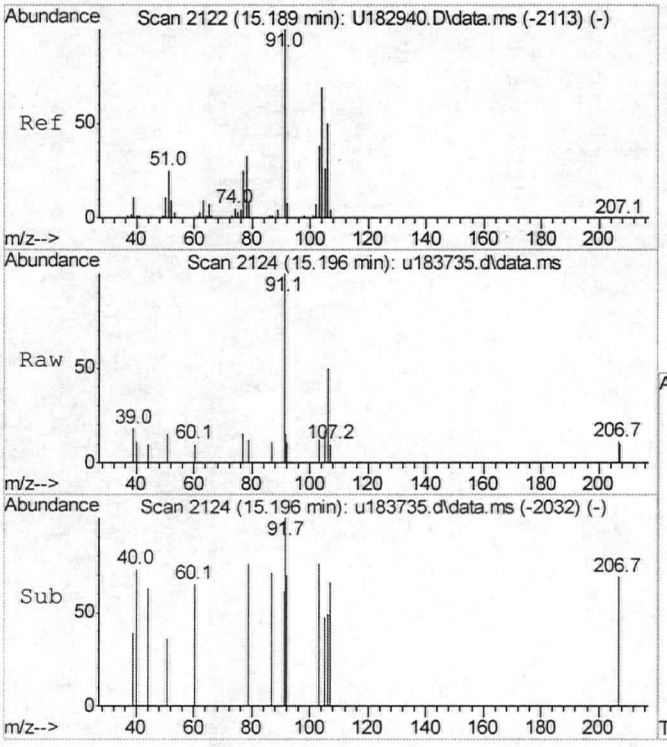


#108
m,p-xylene
Concen: 0.42 ug/L
RT: 14.731 min Scan# 2035
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:106 Resp: 1871

Ion	Ratio	Lower	Upper
106	100		
91	132.8	163.5	223.5#

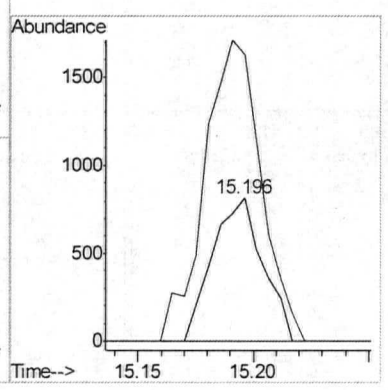




#109
o-xylene
Concen: 0.27 ug/L
RT: 15.196 min Scan# 2124
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

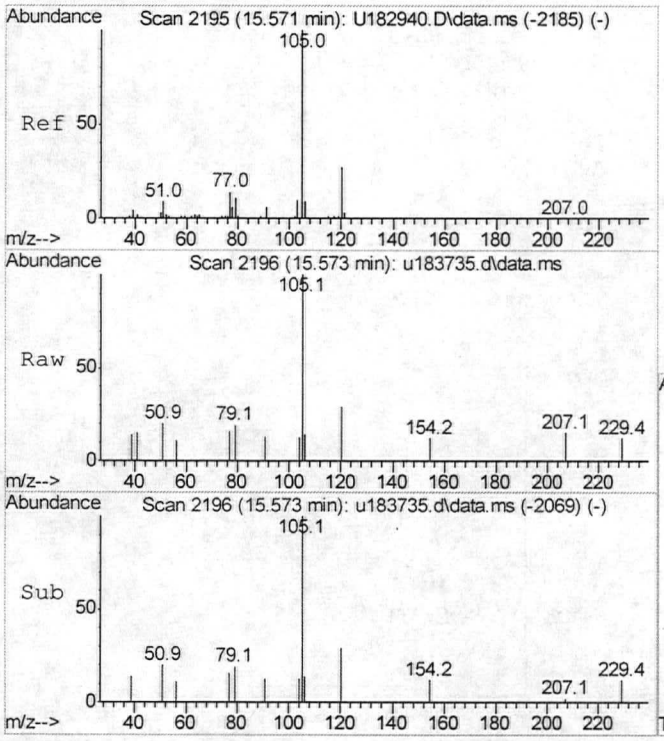
Tgt Ion:106 Resp: 1239

Ion	Ratio	Lower	Upper
106	100		
91	230.2	173.5	233.5



7.1.1

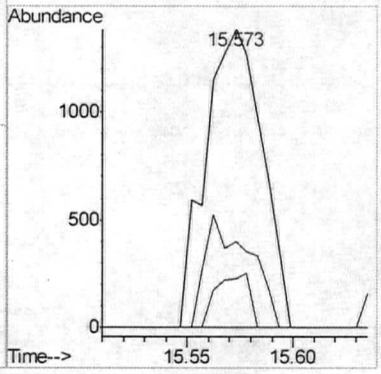
ACCUTEST LABORATORIES
JB66517

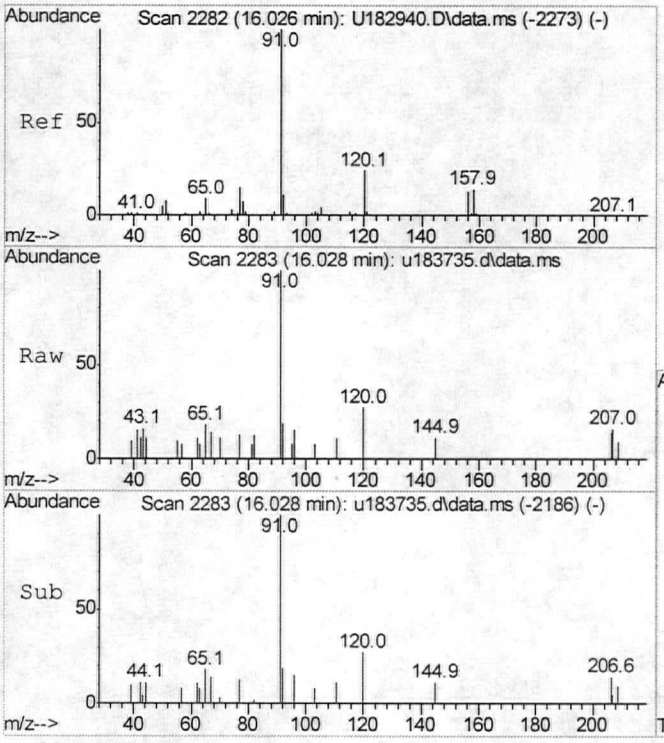


#113
isopropylbenzene
Concen: 0.22 ug/L
RT: 15.573 min Scan# 2196
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:105 Resp: 2585

Ion	Ratio	Lower	Upper
105	100		
120	28.9	0.0	56.3
77	16.3	0.0	44.2

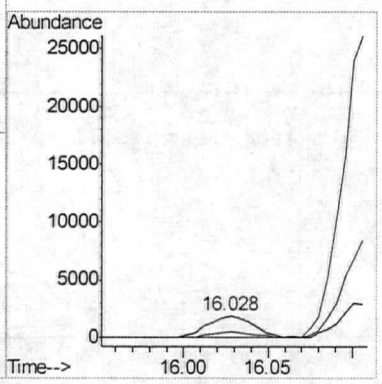




#119
n-propylbenzene
Concen: 0.27 ug/L
RT: 16.028 min Scan# 2283
Delta R.T. -0.001 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion: 91 Resp: 3504

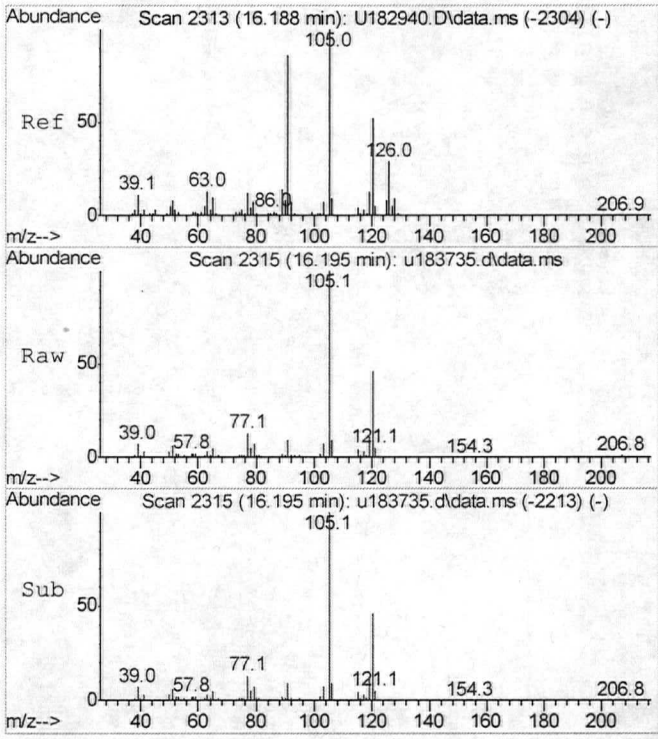
Ion	Ratio	Lower	Upper
91	100		
120	26.7	0.0	54.0
105	0.0	0.0	33.9



7.1.1

7

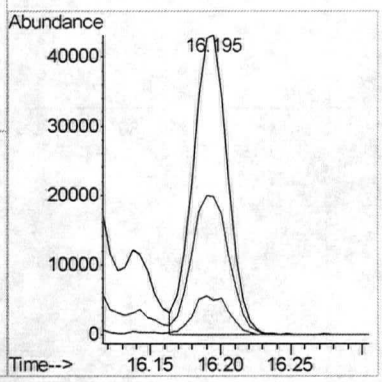
ACCUTEST LABORATORIES
JB66517

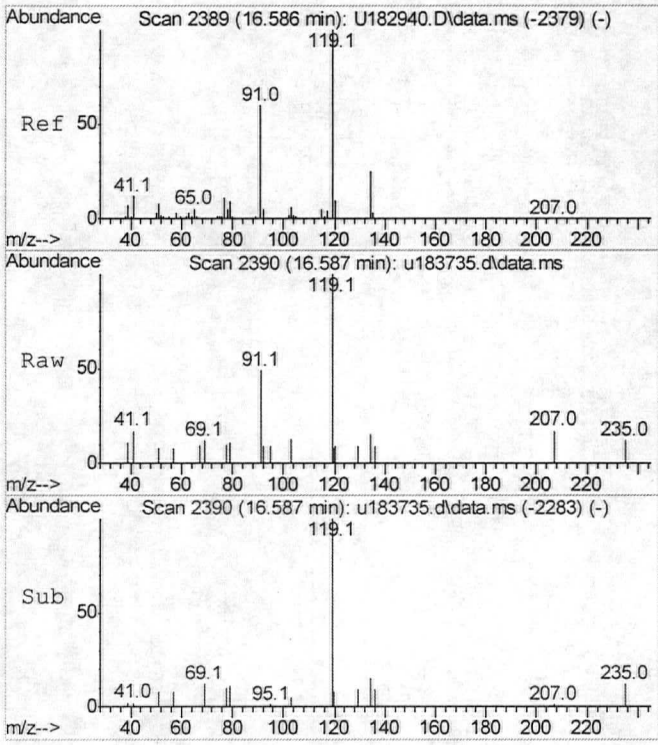


#123
1,3,5-trimethylbenzene
Concen: 7.16 ug/L
RT: 16.195 min Scan# 2315
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:105 Resp: 74080

Ion	Ratio	Lower	Upper
105	100		
120	46.0	19.9	79.9
119	11.3	0.0	42.8

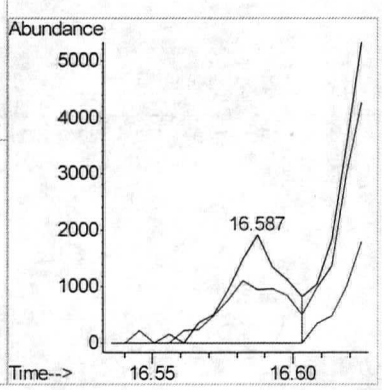




#124
tert-butylbenzene
Concen: 0.29 ug/L
RT: 16.587 min Scan# 2390
Delta R.T. -0.001 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:119 Resp: 2682

Ion	Ratio	Lower	Upper
119	100		
91	49.2	32.0	92.0
117	0.0	0.0	33.4



7.1.1

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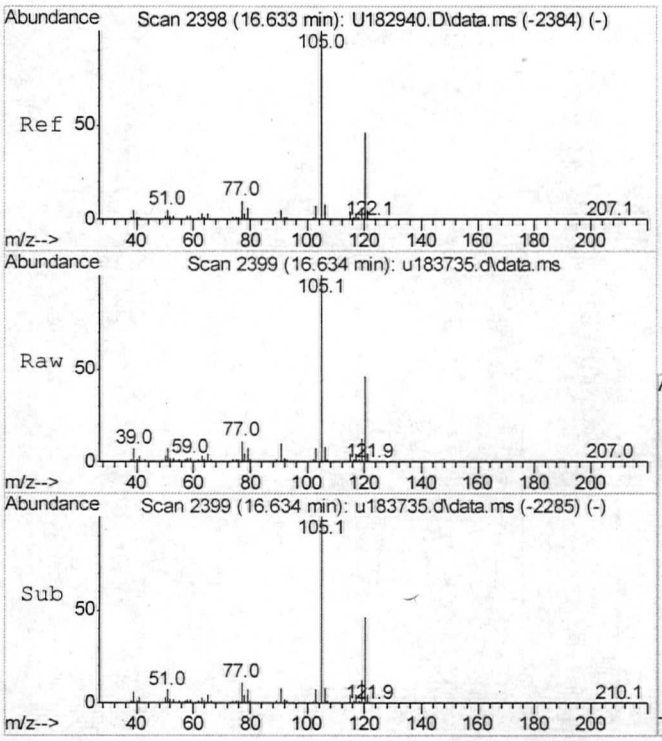
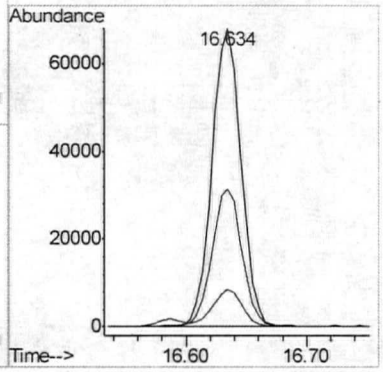
ACCUTEST LABORATORIES
JB66517

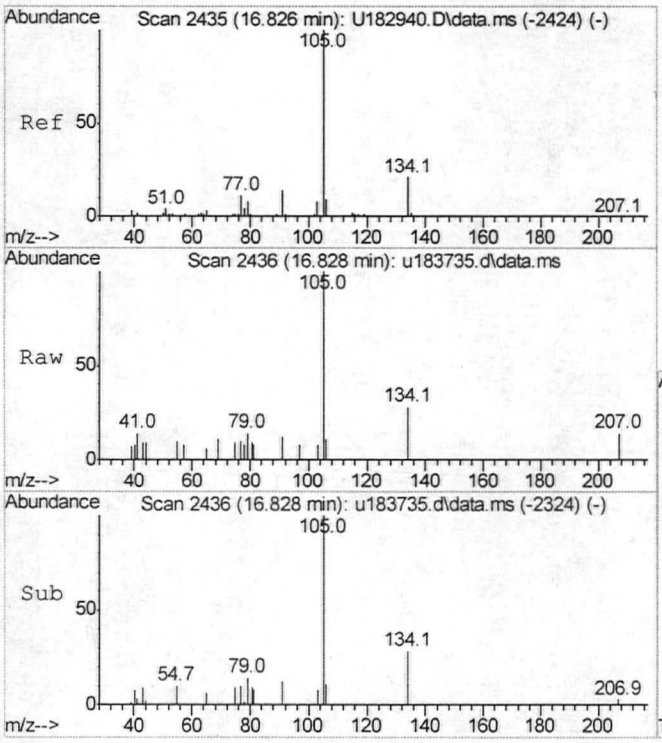


#126
1,2,4-trimethylbenzene
Concen: 10.94 ug/L
RT: 16.634 min Scan# 2399
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:105 Resp: 114706

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.8	76.8
119	12.4	0.0	41.7

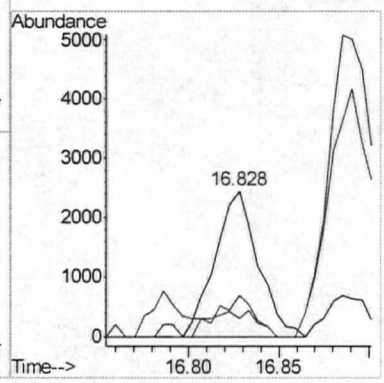




#128
sec-butylbenzene
Concen: 0.30 ug/L
RT: 16.828 min Scan# 2436
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:105 Resp: 4056

Ion	Ratio	Lower	Upper
105	100		
134	18.9	0.0	49.9
91	0.0	0.0	44.8



7.1.1

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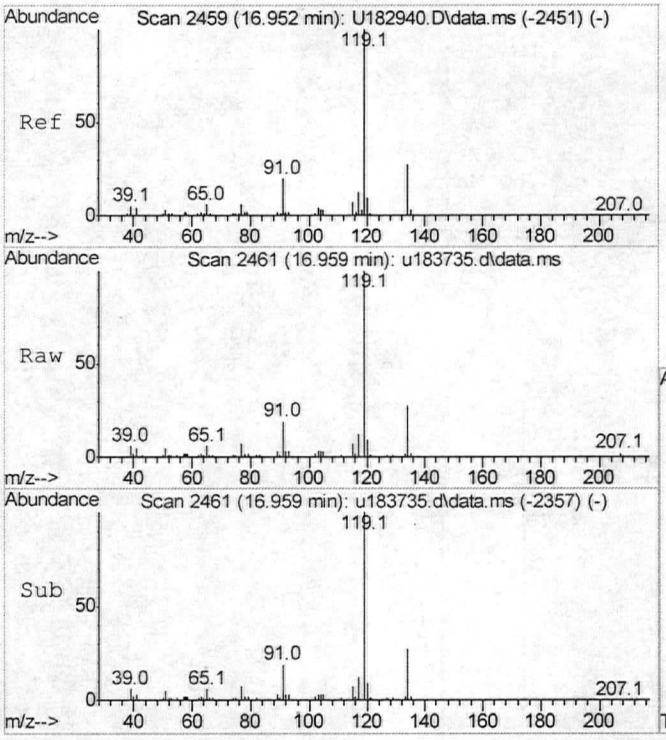
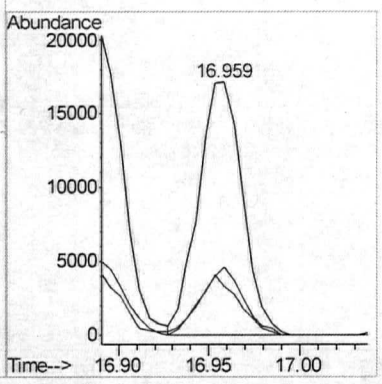


#130
p-isopropyltoluene
Concen: 2.43 ug/L
RT: 16.959 min Scan# 2461
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:119 Resp: 29151

Ion	Ratio	Lower	Upper
119	100		
134	26.9	0.0	56.2
91	19.4	0.0	50.8



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183736.d
Acq On : 10 May 2014 1:30 pm
Operator : conniex
Sample : jb66517-2
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Time: May 12 15:37:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.064	65	143704	500.00	ug/L	0.02
5) pentafluorobenzene	10.271	168	264962	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.186	114	377521	50.00	ug/L	0.00
96) chlorobenzene-d5	14.513	117	366936	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	224489	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.318	113	116892	52.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.22%			
57) 1,2-dichloroethane-d4 (s)	10.747	65	131951	53.75	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 107.50%			
88) toluene-d8 (s)	12.881	98	443856	56.24	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.48%			
114) 4-bromofluorobenzene (s)	15.794	95	179486	54.28	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.56%			
Target Compounds						Qvalue
28) 1,1-dichloroethene	7.384	96	16553	7.43	ug/L	90
42) 1,1-dichloroethane	9.037	63	133621	32.86	ug/L	98
48) cis-1,2-dichloroethene	9.764	96	28957	10.86	ug/L	87
60) 1,1,1-trichloroethane	10.386	97	1049231	278.04	ug/L	95
78) trichloroethene	11.521	95	6382	2.72	ug/L	96
98) tetrachloroethene	13.576	164	19512	8.38	ug/L	94

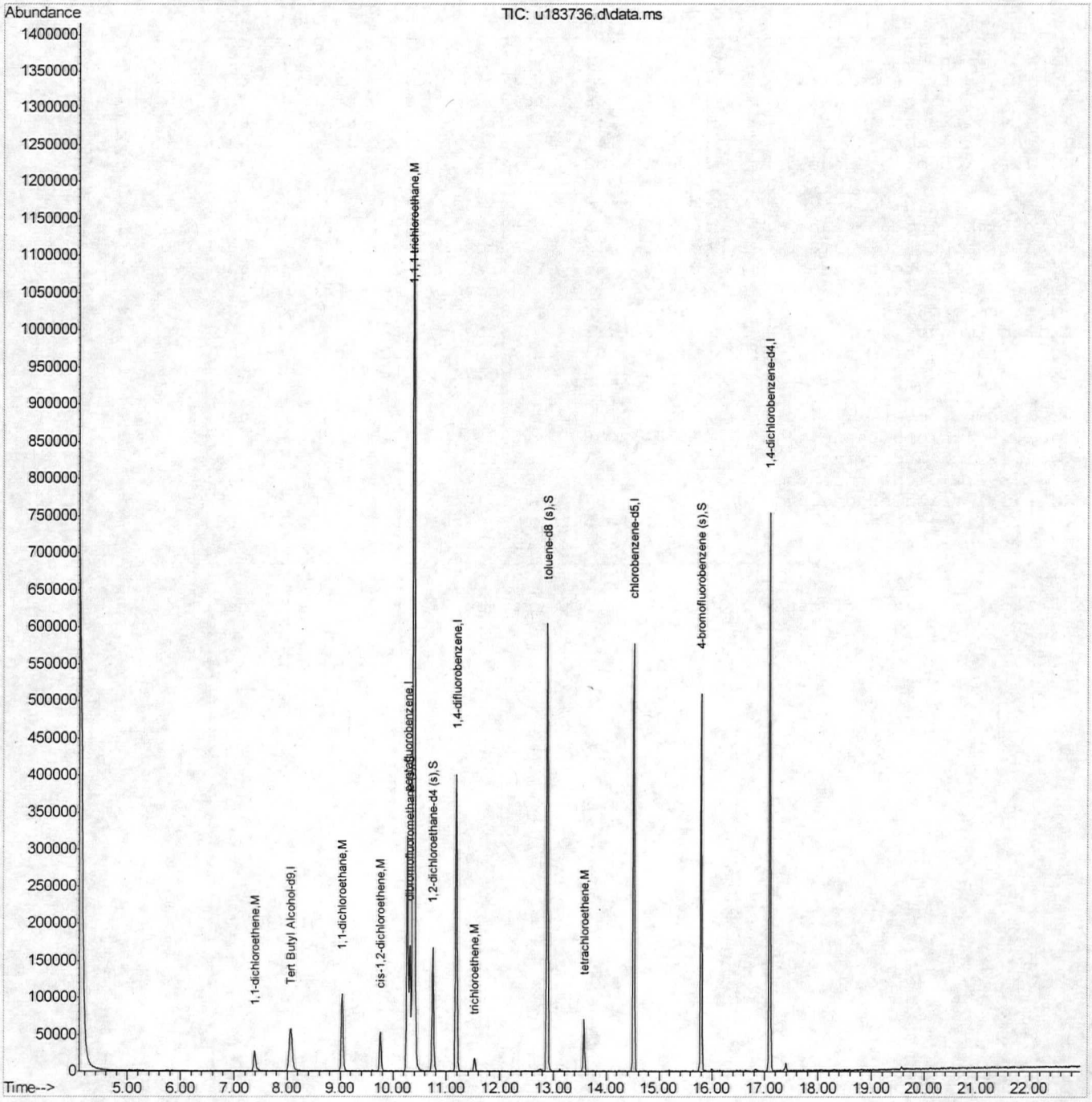
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.2 7

Quantitation Report (QT Reviewed)

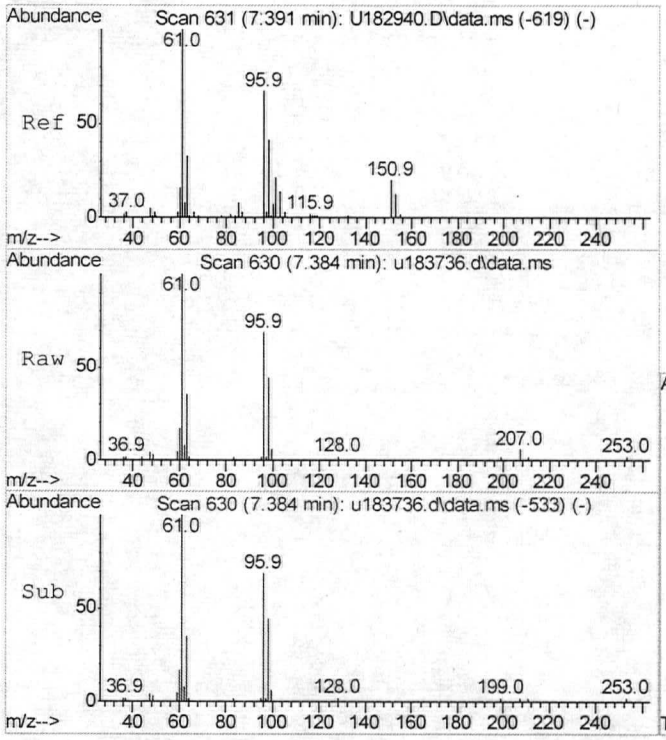
Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183736.d
Acq On : 10 May 2014 1:30 pm
Operator : conniex
Sample : jb66517-2
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 54 Sample Multiplier: 1

Quant Time: May 12 15:37:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



MU8469.M Wed May 21 13:00:43 2014 RPT1

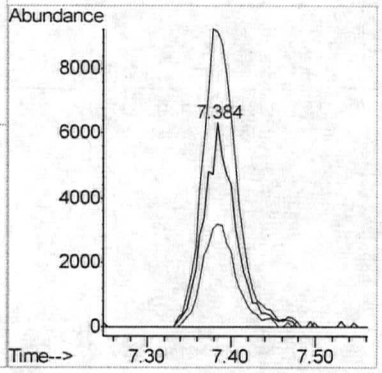
Page: 2

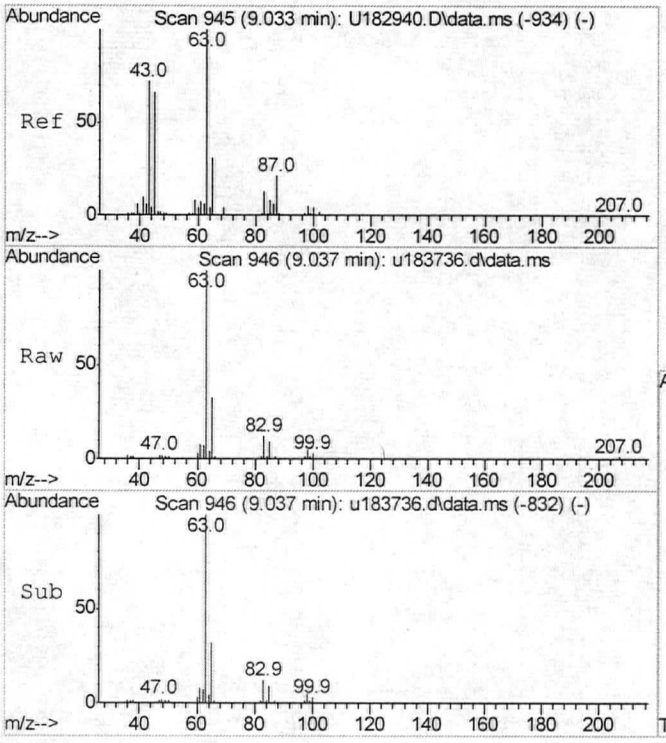


#28
1,1-dichloroethene
Concen: 7.43 ug/L
RT: 7.384 min Scan# 630
Delta R.T. 0.005 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion: 96 Resp: 16553

Ion	Ratio	Lower	Upper
96	100		
61	144.6	132.3	192.3
63	50.2	19.4	79.4

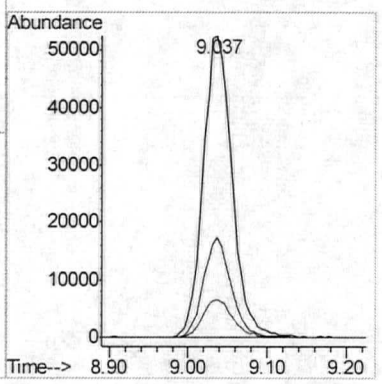




#42
1,1-dichloroethane
Concen: 32.86 ug/L
RT: 9.037 min Scan# 946
Delta R.T. 0.006 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion: 63 Resp: 133621

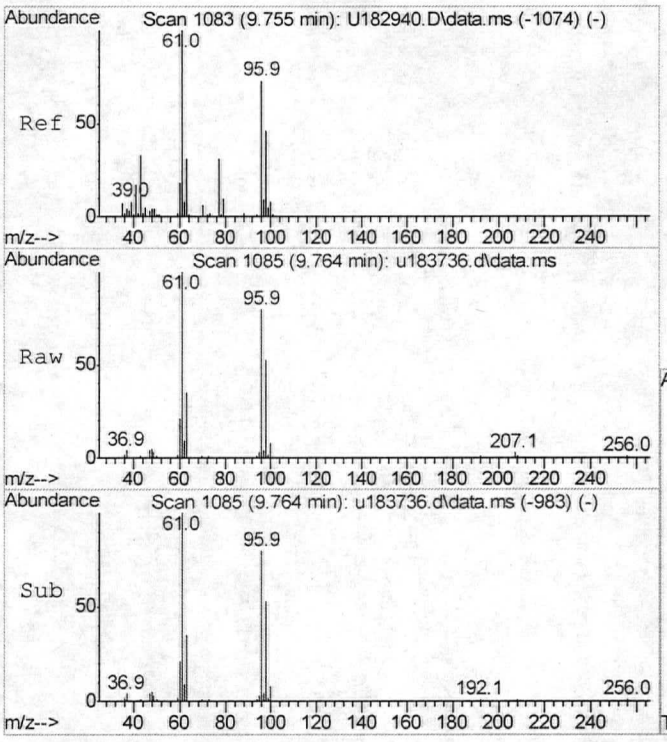
Ion	Ratio	Lower	Upper
63	100		
65	32.8	1.7	61.7
83	12.4	0.0	43.5



7.1.2

7

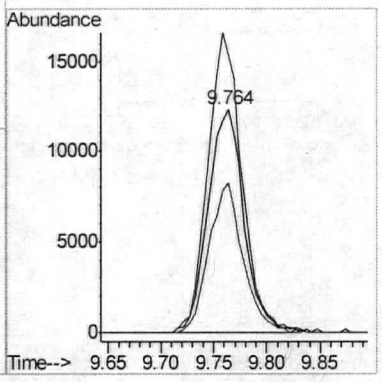
ACCUTEST LABORATORIES
JB66517

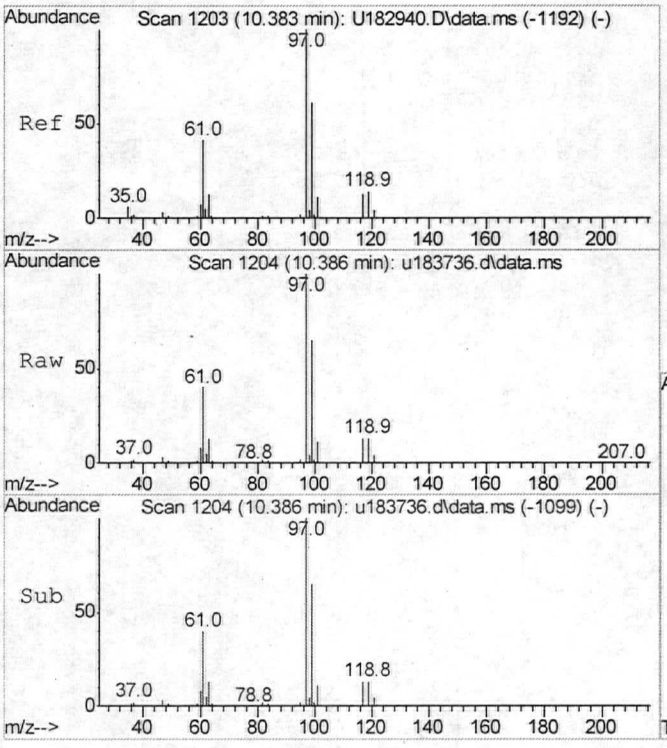


#48
cis-1,2-dichloroethene
Concen: 10.86 ug/L
RT: 9.764 min Scan# 1085
Delta R.T. 0.006 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion: 96 Resp: 28957

Ion	Ratio	Lower	Upper
96	100		
61	124.5	117.8	177.8
98	66.6	36.4	96.4

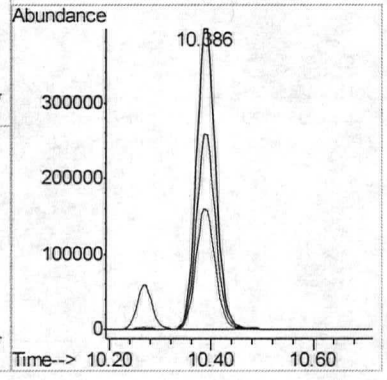




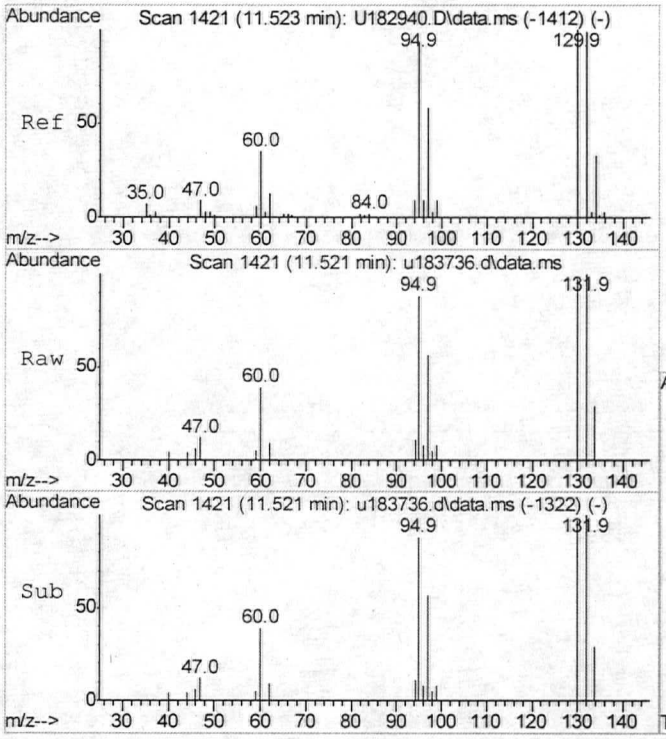
#60
1,1,1-trichloroethane
Concen: 278.04 ug/L
RT: 10.386 min Scan# 1204
Delta R.T. 0.000 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion: 97 Resp: 1049231

Ion	Ratio	Lower	Upper
97	100		
99	65.1	30.1	90.1
61	40.4	9.5	69.5



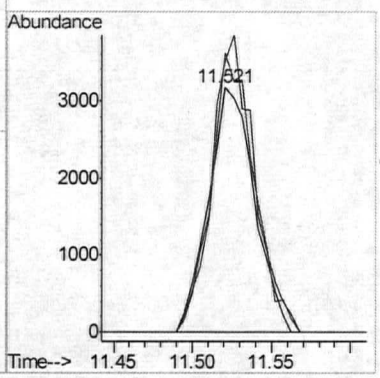
7.1.2

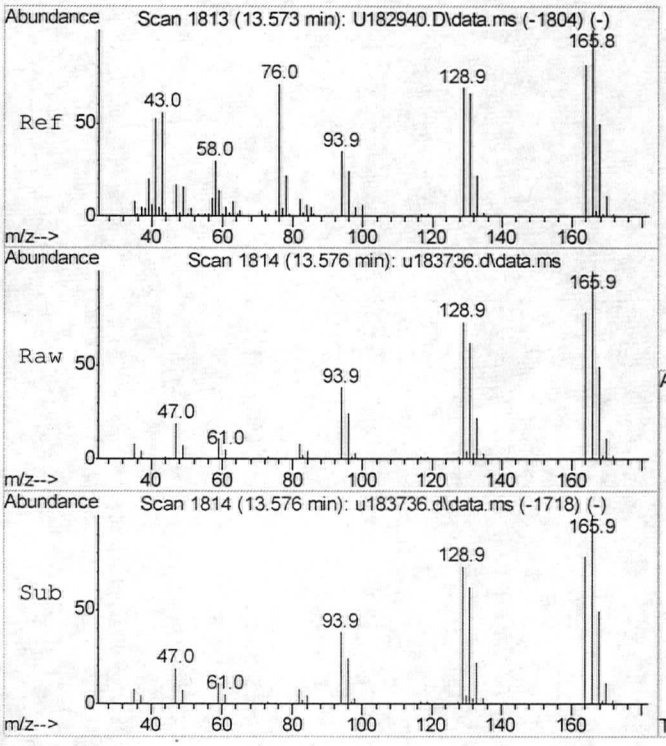


#78
trichloroethene
Concen: 2.72 ug/L
RT: 11.521 min Scan# 1421
Delta R.T. 0.000 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion: 95 Resp: 6382

Ion	Ratio	Lower	Upper
95	100		
130	110.6	81.8	141.8
132	113.6	75.7	135.7

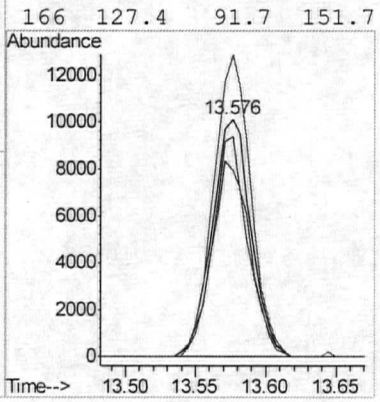




#98
tetrachloroethene
Concen: 8.38 ug/L
RT: 13.576 min Scan# 1814
Delta R.T. 0.000 min
Lab File: u183736.d
Acq: 10 May 2014 1:30 pm

Tgt Ion:164 Resp: 19512

Ion	Ratio	Lower	Upper
164	100		
129	92.8	55.7	115.7
131	78.9	52.8	112.8
166	127.4	91.7	151.7



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183823.d
Acq On : 13 May 2014 11:40 am
Operator : conniex
Sample : jb66517-2
Misc : ms67307,vu8483,5.0,,,,10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:59:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.065	65	113788	500.00	ug/L	0.02
5) pentafluorobenzene	10.262	168	251870	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.177	114	359453	50.00	ug/L	0.00
96) chlorobenzene-d5	14.509	117	351787	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.087	152	217991	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.314	113	111248	52.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.34%			
57) 1,2-dichloroethane-d4 (s)	10.743	65	126914	54.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.78%			
88) toluene-d8 (s)	12.877	98	428034	56.96	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 113.92%			
114) 4-bromofluorobenzene (s)	15.790	95	176294	54.91	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 109.82%			
Target Compounds						Qvalue
28) 1,1-dichloroethene	7.385	96	1368	0.65	ug/L	87
42) 1,1-dichloroethane	9.033	63	11129	2.88	ug/L	86
48) cis-1,2-dichloroethene	9.760	96	2728	1.08	ug/L	86
60) 1,1,1-trichloroethane	10.387	97	88835	24.76	ug/L	94
98) tetrachloroethene	13.572	164	1720	0.77	ug/L #	78

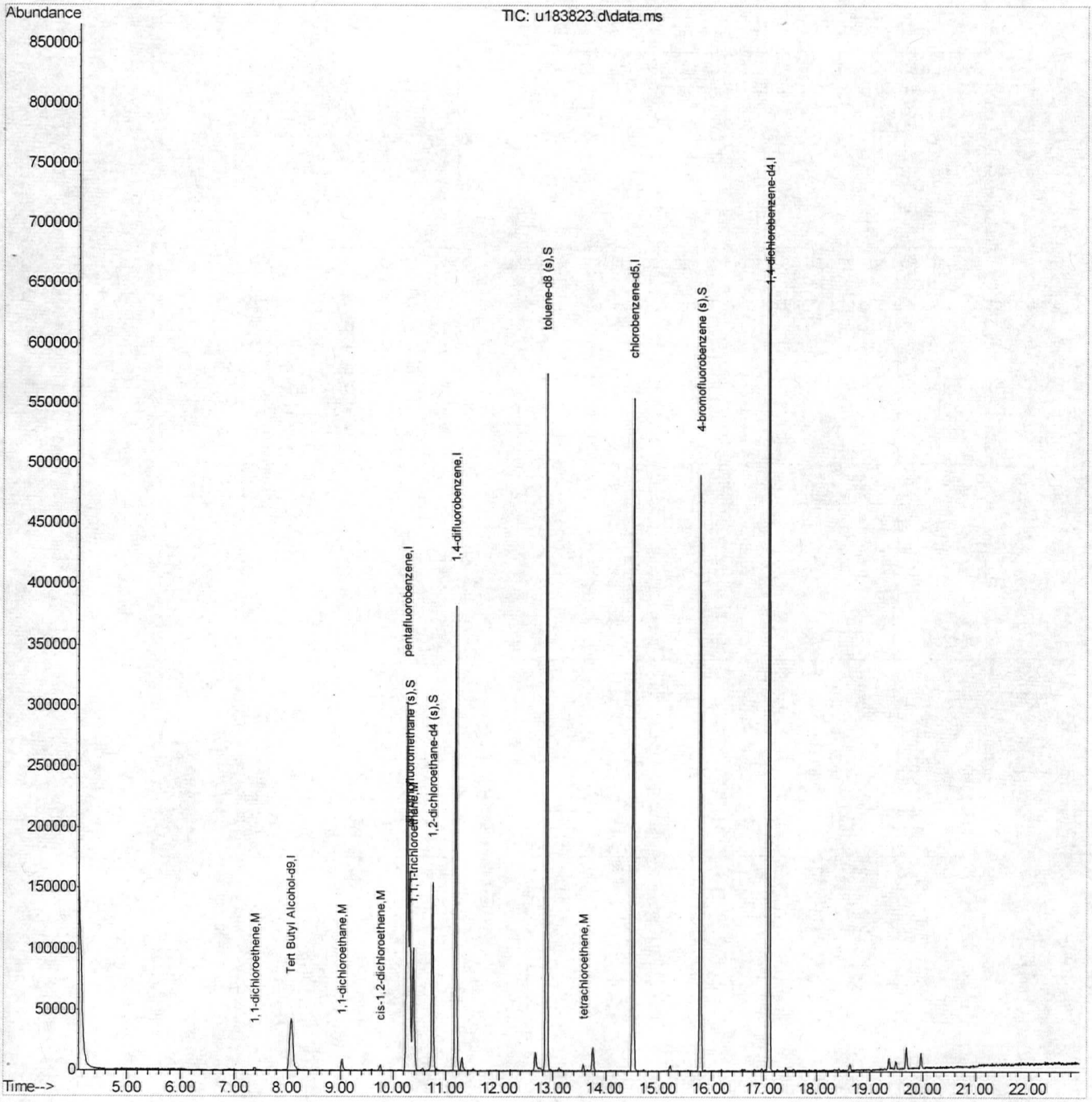
(#) = qualifier out of range (m) = manual integration (+) = signals summed

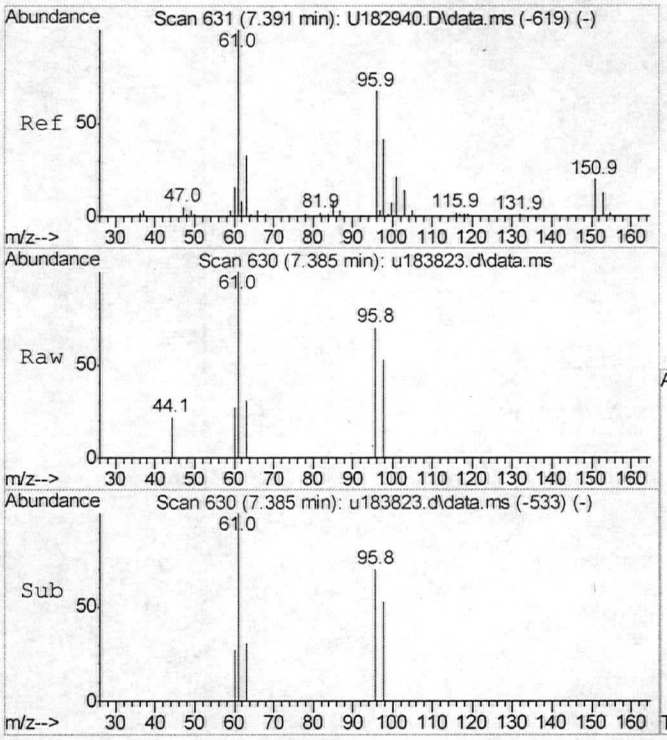
7.1.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183823.d
Acq On : 13 May 2014 11:40 am
Operator : conniex
Sample : jb66517-2
Misc : ms67307,vu8483,5.0,,,,10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 12:59:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

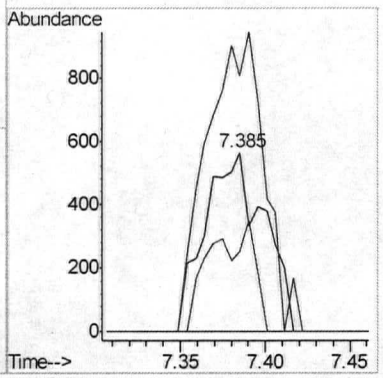


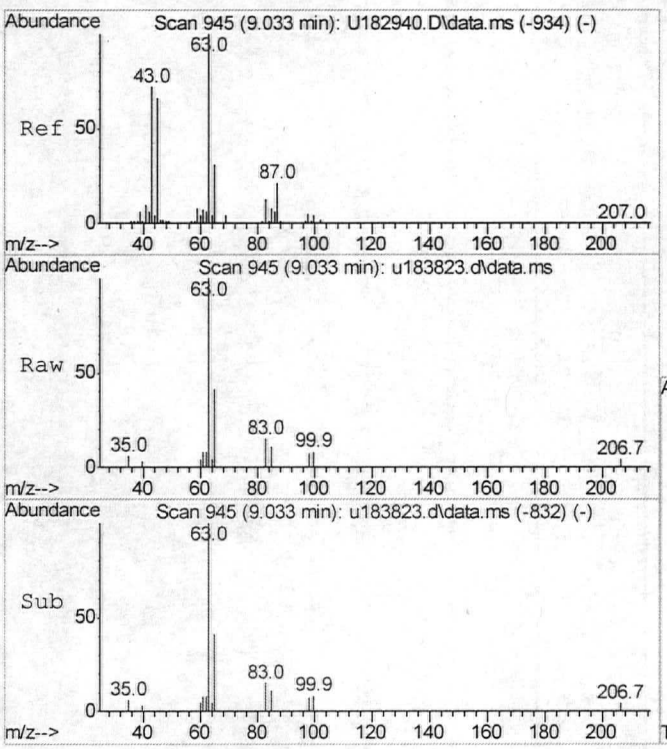


#28
1,1-dichloroethene
Concen: 0.65 ug/L
RT: 7.385 min Scan# 630
Delta R.T. 0.007 min
Lab File: u183823.d
Acq: 13 May 2014 11:40 am

Tgt Ion: 96 Resp: 1368

Ion	Ratio	Lower	Upper
96	100		
61	143.4	132.3	192.3
63	44.3	19.4	79.4

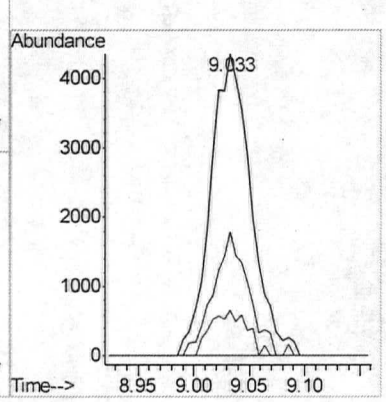




#42
1,1-dichloroethane
Concen: 2.88 ug/L
RT: 9.033 min Scan# 945
Delta R.T. 0.002 min
Lab File: u183823.d
Acq: 13 May 2014 11:40 am

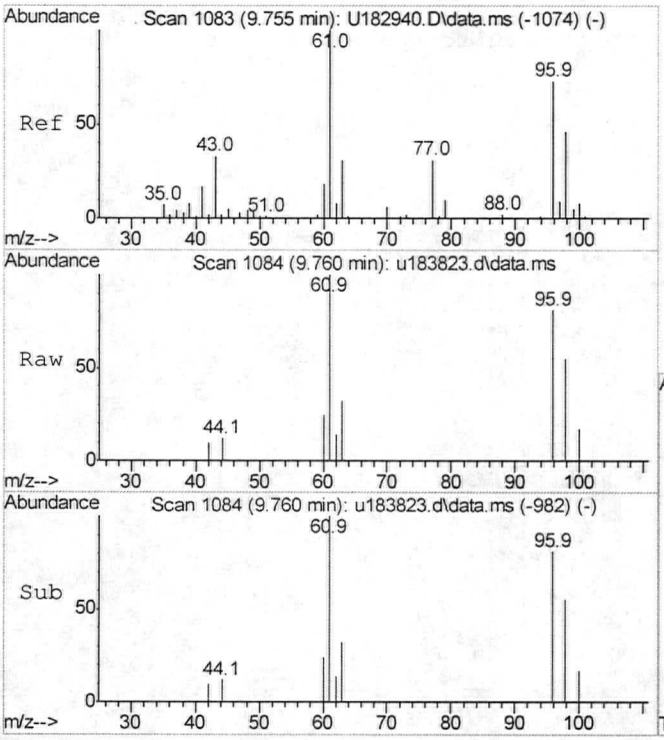
Tgt Ion: 63 Resp: 11129

Ion	Ratio	Lower	Upper
63	100		
65	41.4	1.7	61.7
83	15.2	0.0	43.5



7.1.3

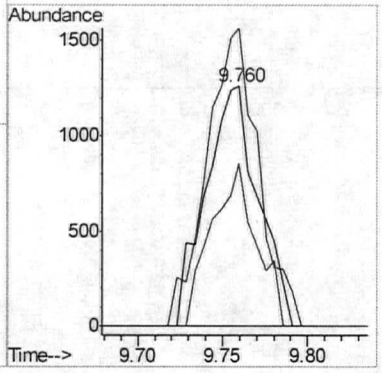
7

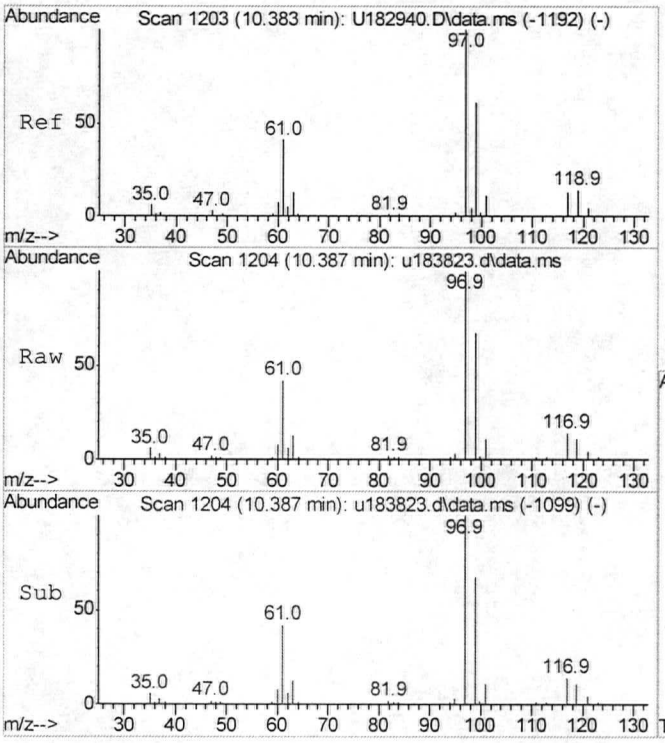


#48
cis-1,2-dichloroethene
Concen: 1.08 ug/L
RT: 9.760 min Scan# 1084
Delta R.T. 0.002 min
Lab File: u183823.d
Acq: 13 May 2014 11:40 am

Tgt Ion: 96 Resp: 2728

Ion	Ratio	Lower	Upper
96	100		
61	124.1	117.8	177.8
98	67.9	36.4	96.4

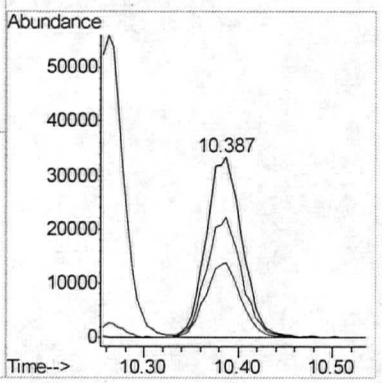




#60
1,1,1-trichloroethane
Concen: 24.76 ug/L
RT: 10.387 min Scan# 1204
Delta R.T. 0.001 min
Lab File: u183823.d
Acq: 13 May 2014 11:40 am

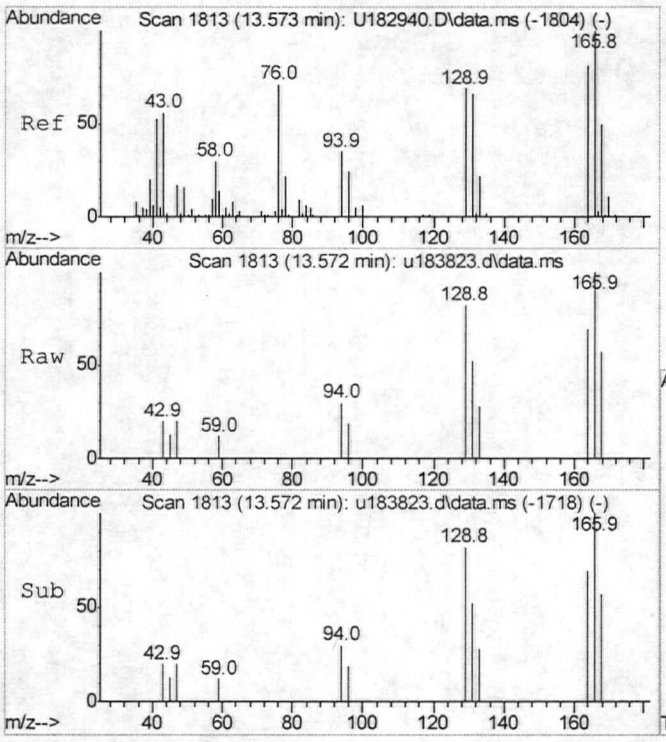
Tgt Ion: 97 Resp: 88835

Ion	Ratio	Lower	Upper
97	100		
99	66.6	30.1	90.1
61	41.5	9.5	69.5



7.1.3

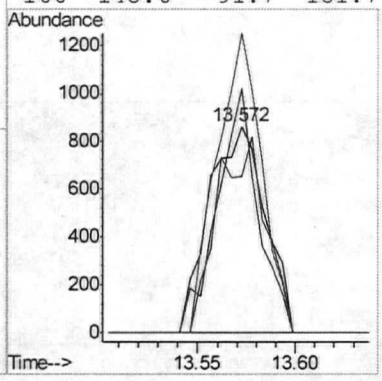
7



#98
tetrachloroethene
Concen: 0.77 ug/L
RT: 13.572 min Scan# 1813
Delta R.T. -0.004 min
Lab File: u183823.d
Acq: 13 May 2014 11:40 am

Tgt Ion:164 Resp: 1720

Ion	Ratio	Lower	Upper
164	100		
129	118.8	55.7	115.7#
131	75.7	52.8	112.8
166	145.6	91.7	151.7



7.1.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183737.d
Acq On : 10 May 2014 1:59 pm
Operator : conniex
Sample : jb66517-3
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: May 12 15:38:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.063	65	122306	500.00	ug/L	0.02
5) pentafluorobenzene	10.271	168	265225	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.186	114	372205	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	359953	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	223947	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.318	113	115980	52.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.30%			
57) 1,2-dichloroethane-d4 (s)	10.747	65	131786	53.63	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 107.26%			
88) toluene-d8 (s)	12.880	98	438024	56.29	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.58%			
114) 4-bromofluorobenzene (s)	15.794	95	179764	54.50	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 109.00%			
Target Compounds						Qvalue
28) 1,1-dichloroethene	7.384	96	10907	4.89	ug/L	97
42) 1,1-dichloroethane	9.036	63	10637	2.61	ug/L	90
48) cis-1,2-dichloroethene	9.758	96	9981	3.74	ug/L #	76
60) 1,1,1-trichloroethane	10.386	97	1143496	302.71	ug/L	97
78) trichloroethene	11.526	95	5622	2.43	ug/L	87
98) tetrachloroethene	13.571	164	589	0.26	ug/L	79

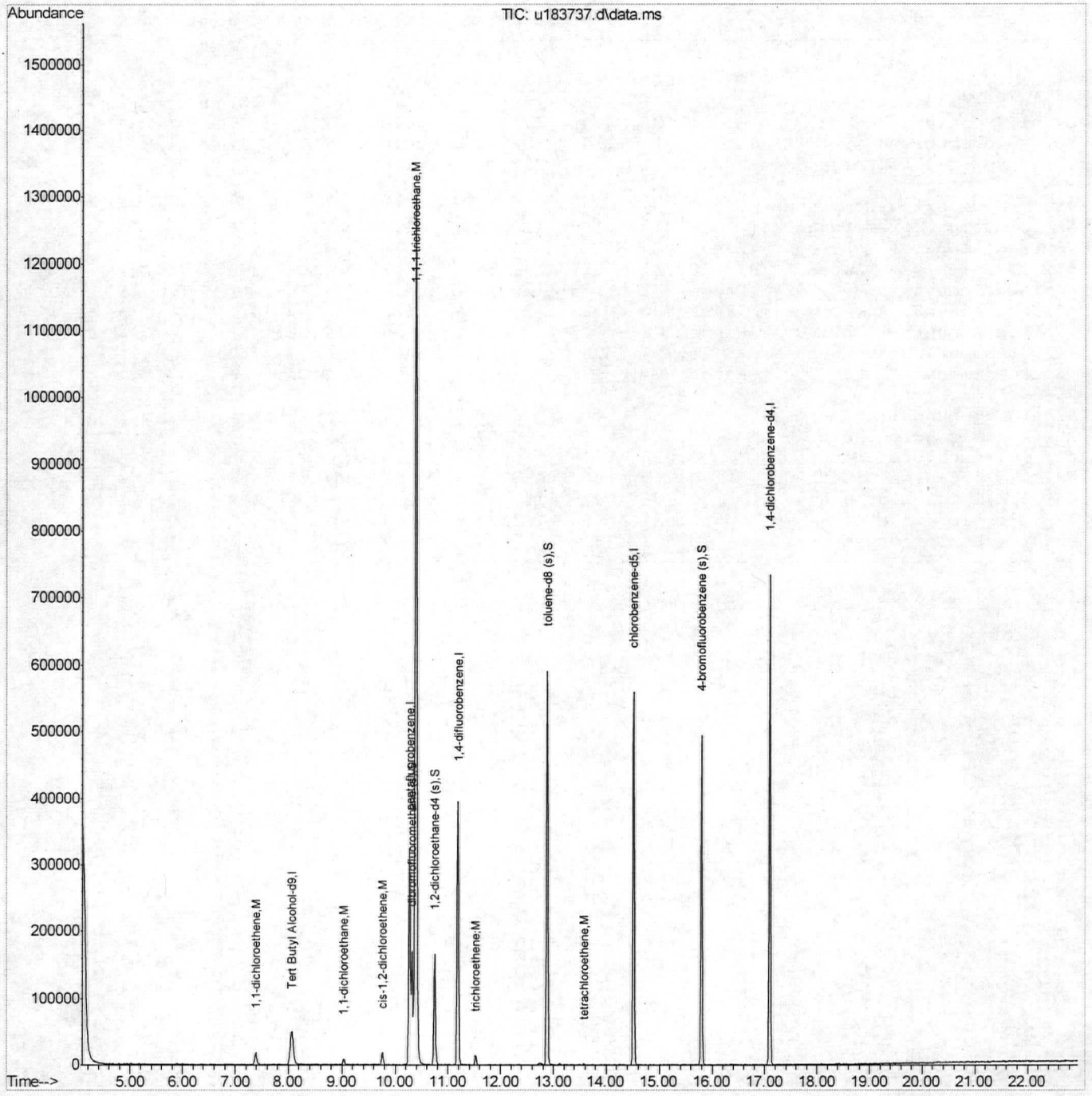
(#) = qualifier out of range (m) = manual integration (+) = signals summed

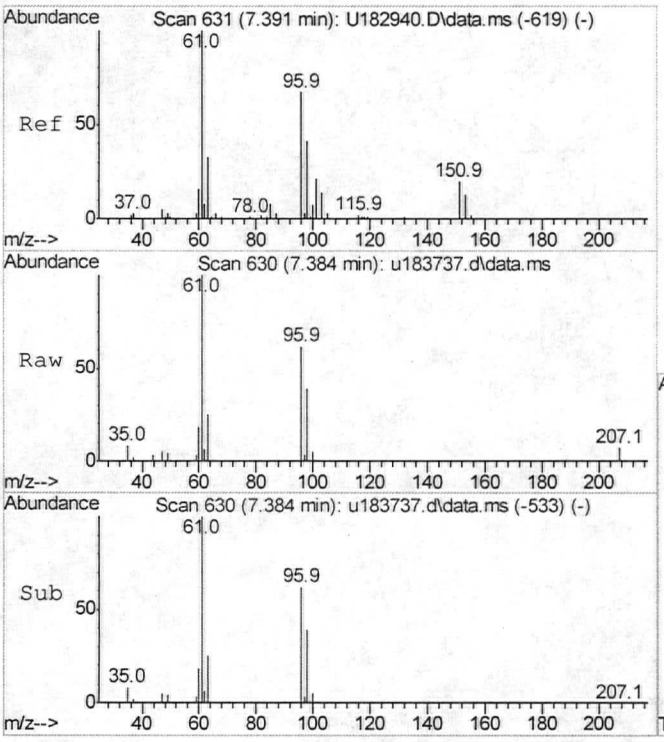
7.1.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183737.d
Acq On : 10 May 2014 1:59 pm
Operator : conniex
Sample : jb66517-3
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Time: May 12 15:38:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

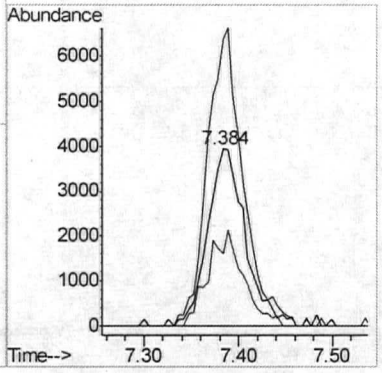


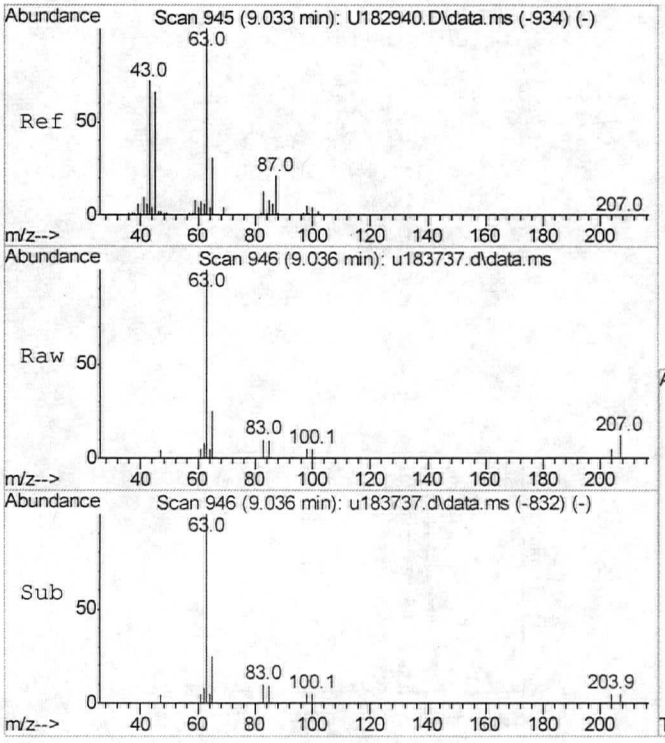


#28
1,1-dichloroethene
Concen: 4.89 ug/L
RT: 7.384 min Scan# 630
Delta R.T. 0.005 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

Tgt Ion: 96 Resp: 10907

Ion	Ratio	Lower	Upper
96	100		
61	162.3	132.3	192.3
63	40.8	19.4	79.4

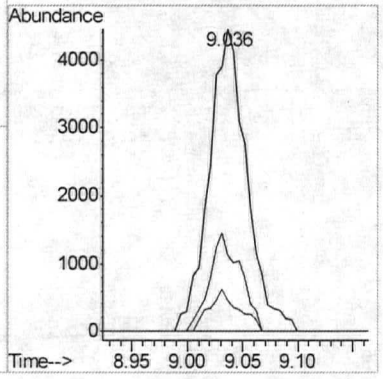




#42
1,1-dichloroethane
Concen: 2.61 ug/L
RT: 9.036 min Scan# 946
Delta R.T. 0.005 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

Tgt Ion: 63 Resp: 10637

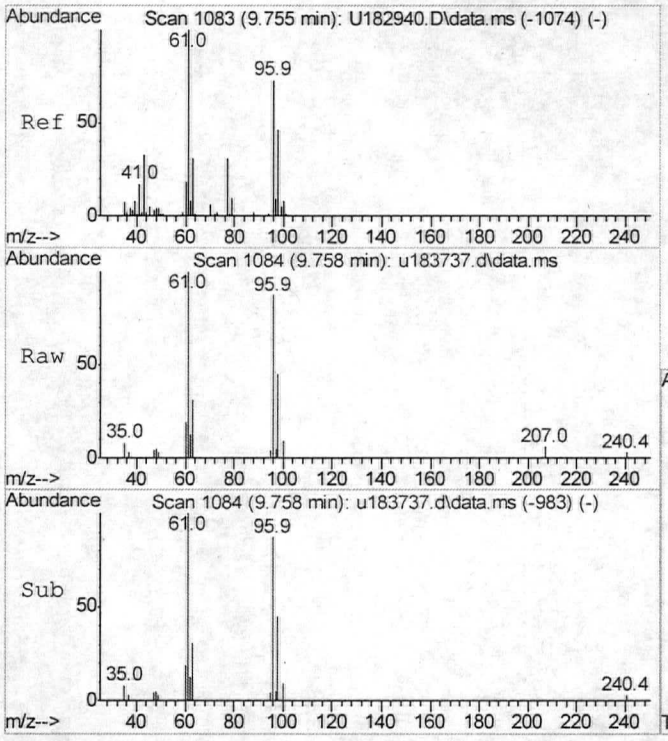
Ion	Ratio	Lower	Upper
63	100		
65	25.5	1.7	61.7
83	10.1	0.0	43.5



7.1.4

7

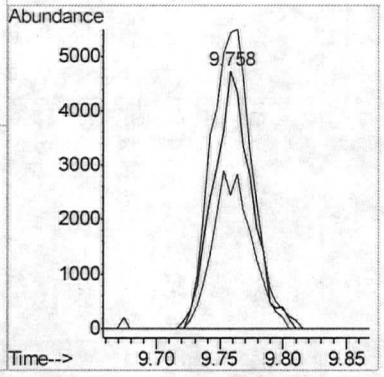
ACCUTEST LABORATORIES
JB66517

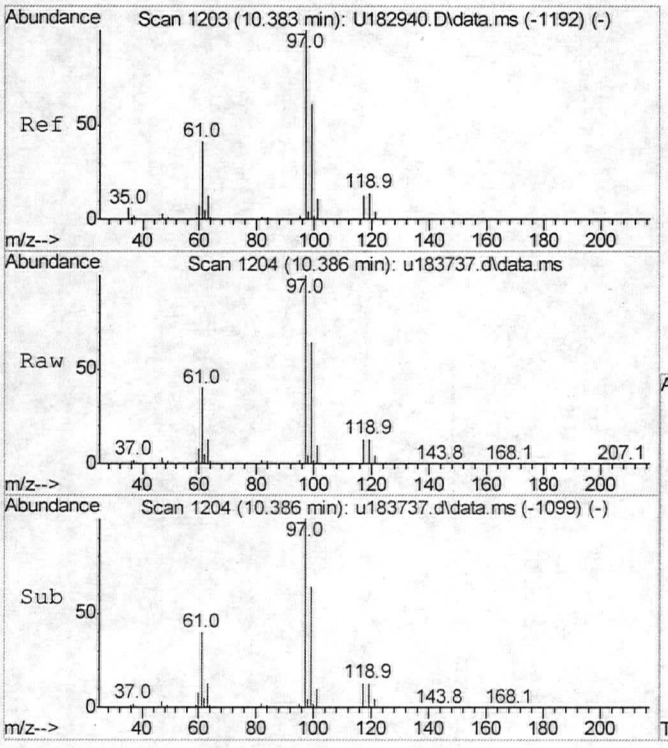


#48
cis-1,2-dichloroethene
Concen: 3.74 ug/L
RT: 9.758 min Scan# 1084
Delta R.T. 0.000 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

Tgt Ion: 96 Resp: 9981

Ion	Ratio	Lower	Upper
96	100		
61	115.0	117.8	177.8#
98	51.7	36.4	96.4

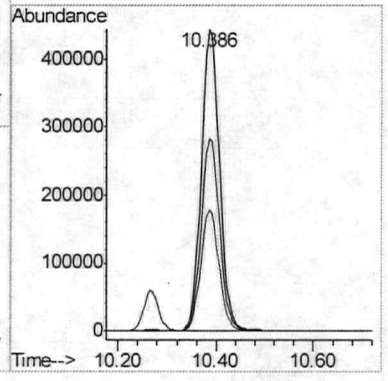




#60
1,1,1-trichloroethane
Concen: 302.71 ug/L
RT: 10.386 min Scan# 1204
Delta R.T. -0.000 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

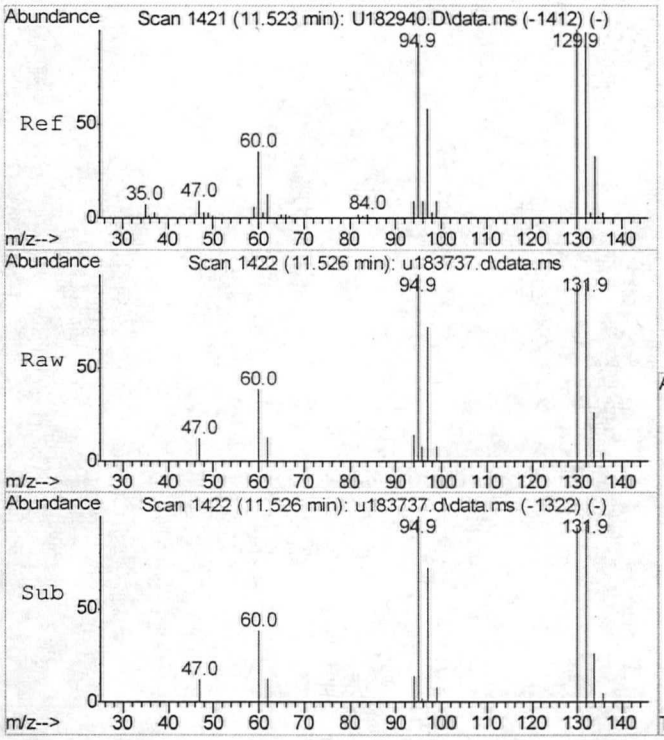
Tgt Ion: 97 Resp: 1143496

Ion	Ratio	Lower	Upper
97	100		
99	63.5	30.1	90.1
61	40.3	9.5	69.5



7.1.4

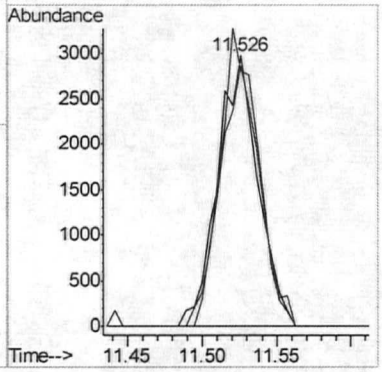
7

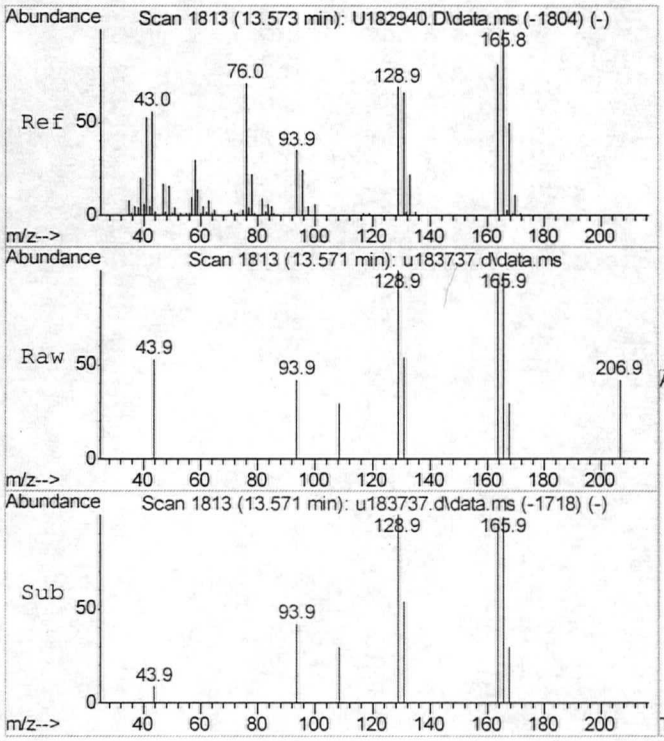


#78
trichloroethene
Concen: 2.43 ug/L
RT: 11.526 min Scan# 1422
Delta R.T. 0.005 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

Tgt Ion: 95 Resp: 5622

Ion	Ratio	Lower	Upper
95	100		
130	94.4	81.8	141.8
132	96.2	75.7	135.7

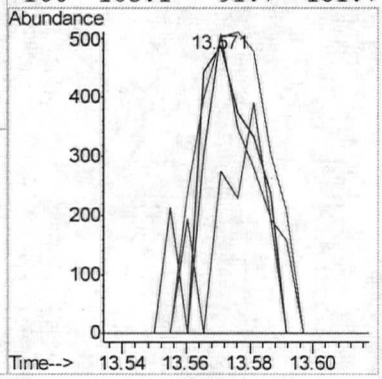




#98
tetrachloroethene
Concen: 0.26 ug/L
RT: 13.571 min Scan# 1813
Delta R.T. -0.005 min
Lab File: u183737.d
Acq: 10 May 2014 1:59 pm

Tgt Ion:164 Resp: 589

Ion	Ratio	Lower	Upper
164	100		
129	104.3	55.7	115.7
131	56.7	52.8	112.8
166	103.1	91.7	151.7



7.1.4

7

ACCUTEST LABORATORIES
JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183824.d
Acq On : 13 May 2014 12:10 pm
Operator : conniex
Sample : jb66517-3
Misc : ms67307,vu8483,5.0,,,,10
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 13:02:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	8.057	65	131980	500.00 ug/L	0.02
5) pentafluorobenzene	10.265	168	259678	50.00 ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	368443	50.00 ug/L	0.00
96) chlorobenzene-d5	14.511	117	368481	50.00 ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	226636	50.00 ug/L	0.00
System Monitoring Compounds					
56) dibromofluoromethane (s)	10.312	113	114074	52.39 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.78%		
57) 1,2-dichloroethane-d4 (s)	10.741	65	130683	54.32 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.64%		
88) toluene-d8 (s)	12.880	98	439845	57.10 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.20%		
114) 4-bromofluorobenzene (s)	15.793	95	181098	54.25 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.50%		
Target Compounds					Qvalue
28) 1,1-dichloroethene	7.378	96	973	0.45 ug/L #	68
48) cis-1,2-dichloroethene	9.752	96	881	0.34 ug/L #	71
60) 1,1,1-trichloroethane	10.380	97	95741	25.89 ug/L	96
78) trichloroethene	11.530	95	474	0.21 ug/L #	64

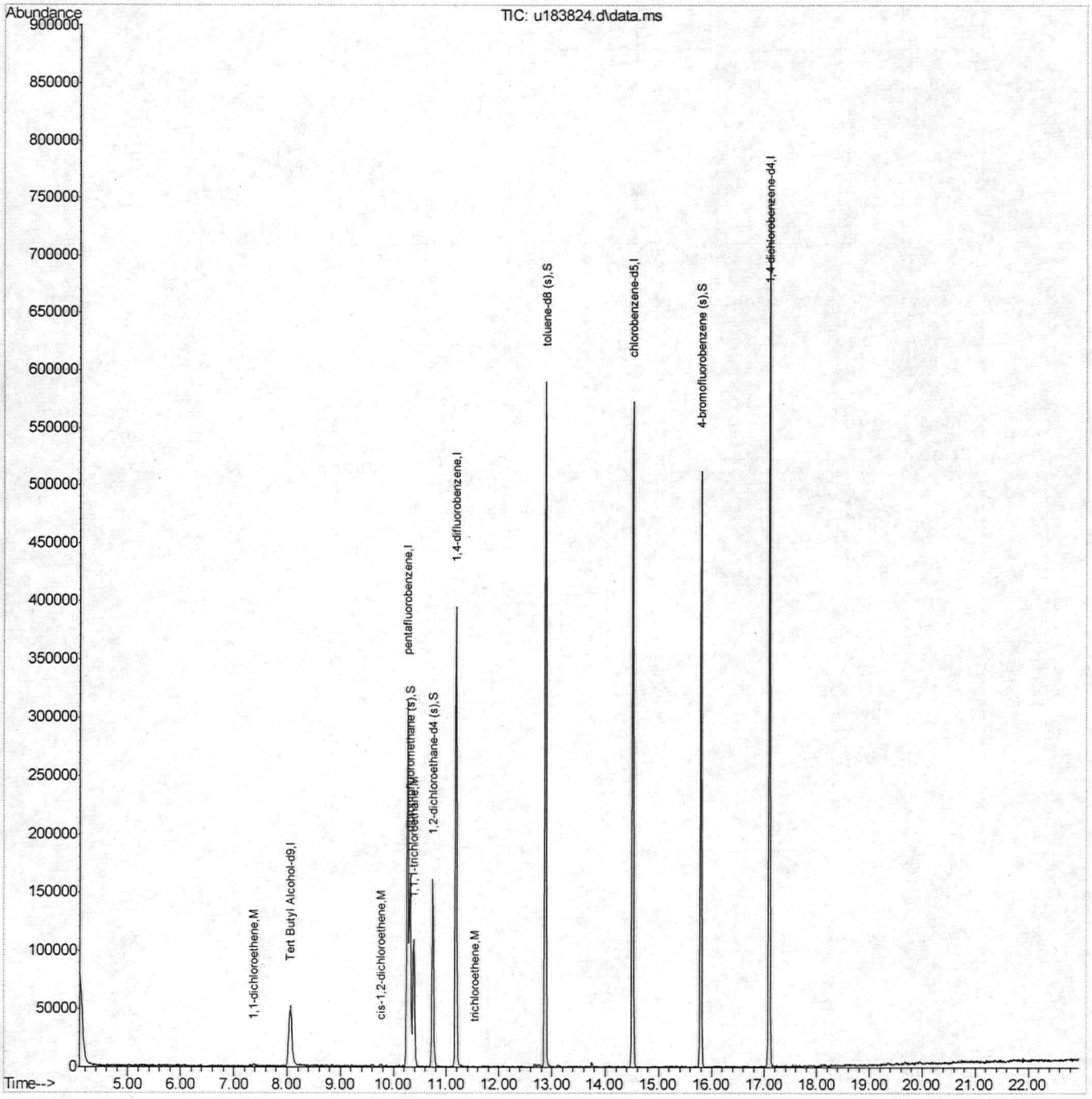
(#) = qualifier out of range (m) = manual integration (+) = signals summed

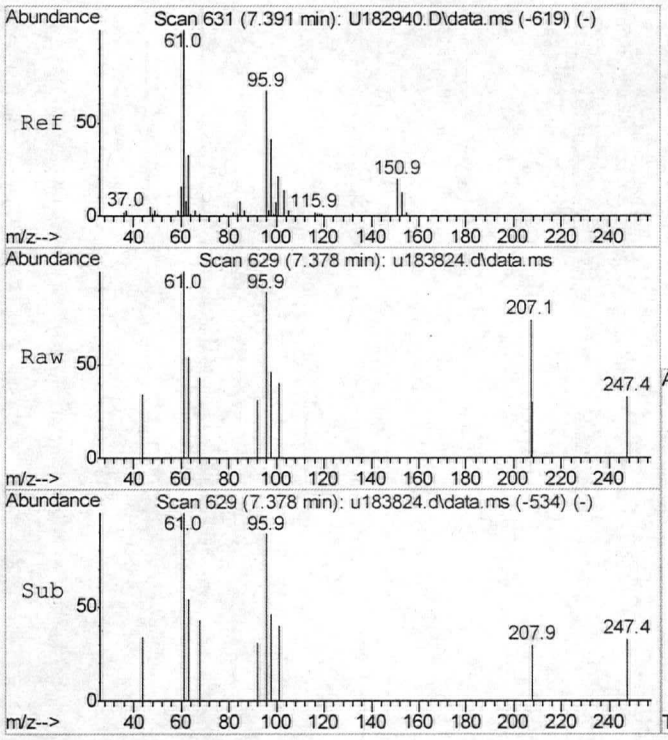
7.1.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183824.d
Acq On : 13 May 2014 12:10 pm
Operator : conniex
Sample : jb66517-3
Misc : ms67307,vu8483,5.0,,,,10
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 13:02:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

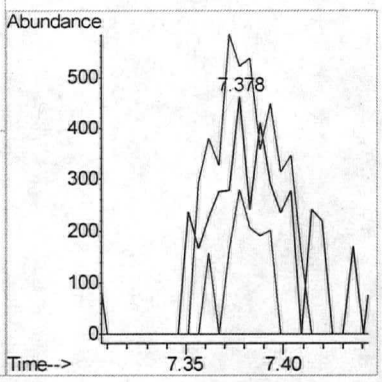


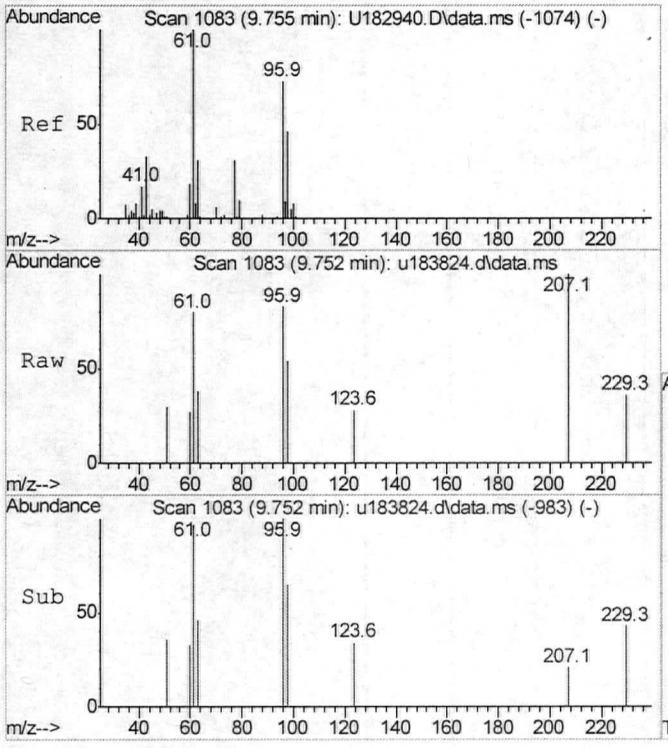


#28
1,1-dichloroethene
Concen: 0.45 ug/L
RT: 7.378 min Scan# 629
Delta R.T. -0.001 min
Lab File: u183824.d
Acq: 13 May 2014 12:10 pm

Tgt Ion: 96 Resp: 973

Ion	Ratio	Lower	Upper
96	100		
61	113.0	132.3	192.3#
63	60.8	19.4	79.4

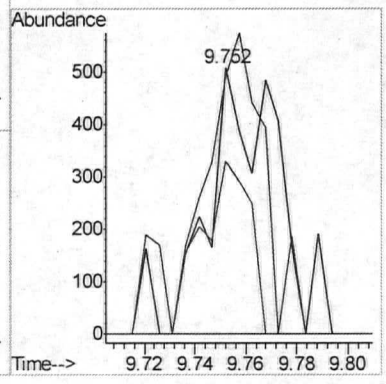




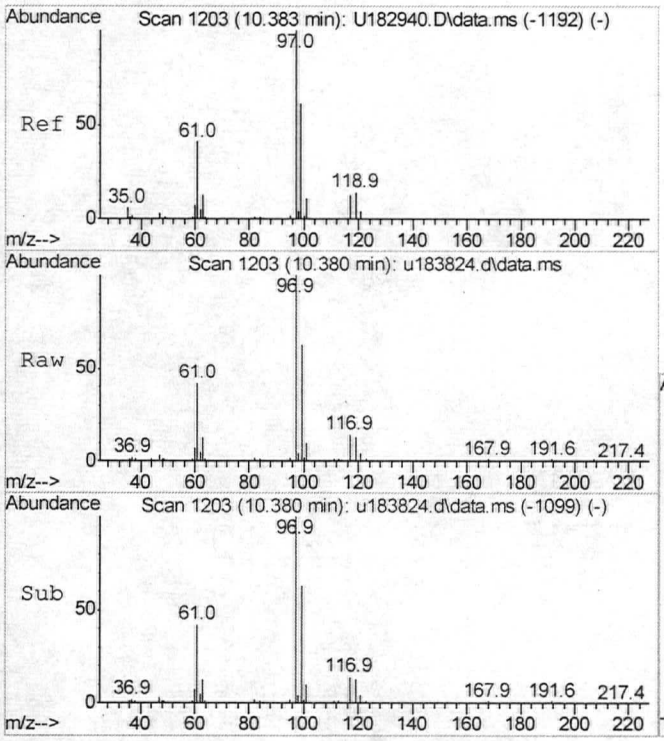
#48
cis-1,2-dichloroethene
Concen: 0.34 ug/L
RT: 9.752 min Scan# 1083
Delta R.T. -0.006 min
Lab File: u183824.d
Acq: 13 May 2014 12:10 pm

Tgt Ion: 96 Resp: 881

Ion	Ratio	Lower	Upper
96	100		
61	96.7	117.8	177.8#
98	65.0	36.4	96.4



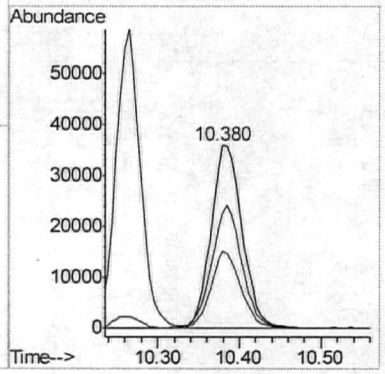
7.1.5

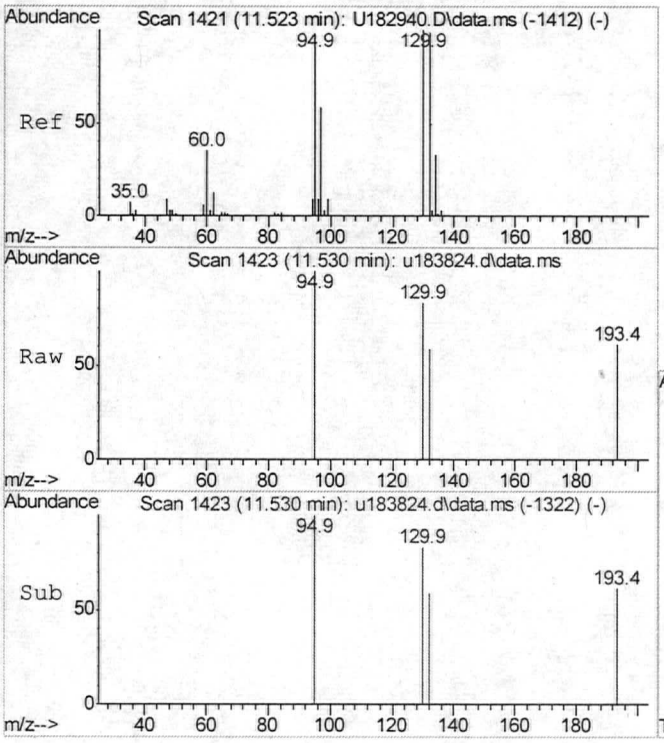


#60
1,1,1-trichloroethane
Concen: 25.89 ug/L
RT: 10.380 min Scan# 1203
Delta R.T. -0.006 min
Lab File: u183824.d
Acq: 13 May 2014 12:10 pm

Tgt Ion: 97 Resp: 95741

Ion	Ratio	Lower	Upper
97	100		
99	63.0	30.1	90.1
61	41.8	9.5	69.5

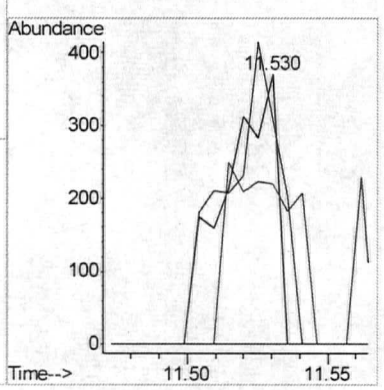




#78
trichloroethene
Concen: 0.21 ug/L
RT: 11.530 min Scan# 1423
Delta R.T. 0.009 min
Lab File: u183824.d
Acq: 13 May 2014 12:10 pm

Tgt Ion: 95 Resp: 474

Ion	Ratio	Lower	Upper
95	100		
130	83.2	81.8	141.8
132	59.5	75.7	135.7#



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183746.d
Acq On : 10 May 2014 6:32 pm
Operator : conniex
Sample : jb66517-4
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 64 Sample Multiplier: 1

Quant Time: May 12 15:47:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.053	65	125121	500.00	ug/L	0.01
5) pentafluorobenzene	10.270	168	265448	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.181	114	372091	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	357675	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	222987	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.318	113	114697	51.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.06%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	131986	53.67	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 107.34%			
88) toluene-d8 (s)	12.880	98	431066	55.41	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 110.82%			
114) 4-bromofluorobenzene (s)	15.794	95	178333	54.30	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.60%			
Target Compounds						Qvalue
28) 1,1-dichloroethene	7.389	96	1812	0.81	ug/L	93
42) 1,1-dichloroethane	9.031	63	3843	0.94	ug/L	94
48) cis-1,2-dichloroethene	9.753	96	8449	3.16	ug/L	81
60) 1,1,1-trichloroethane	10.386	97	302411	79.99	ug/L	96
78) trichloroethene	11.526	95	13261	5.74	ug/L	92
98) tetrachloroethene	13.571	164	654	0.29	ug/L #	62

(#) = qualifier out of range (m) = manual integration (+) = signals summed

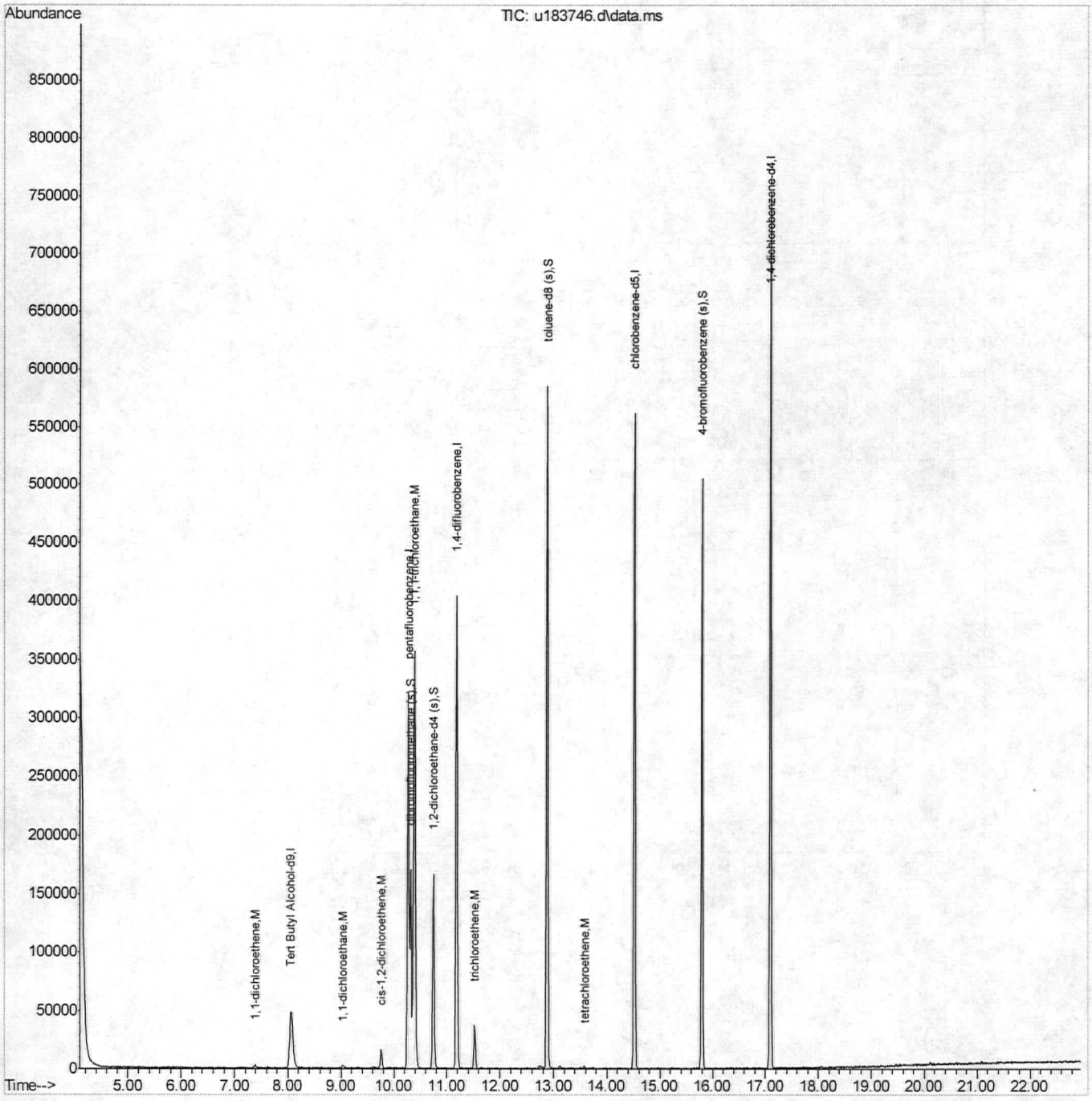
7.1.6

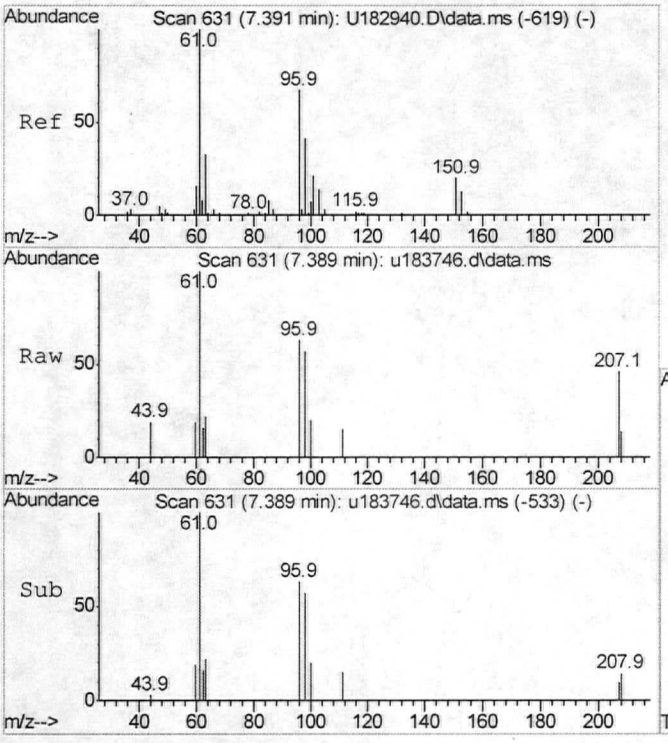
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183746.d
Acq On : 10 May 2014 6:32 pm
Operator : conniex
Sample : jb66517-4
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 64 Sample Multiplier: 1

Quant Time: May 12 15:47:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

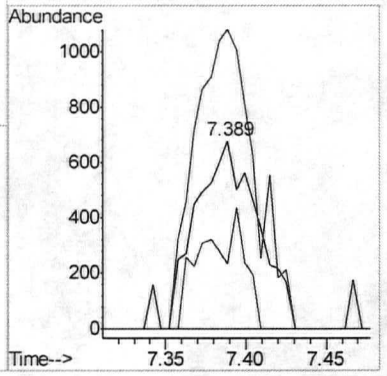


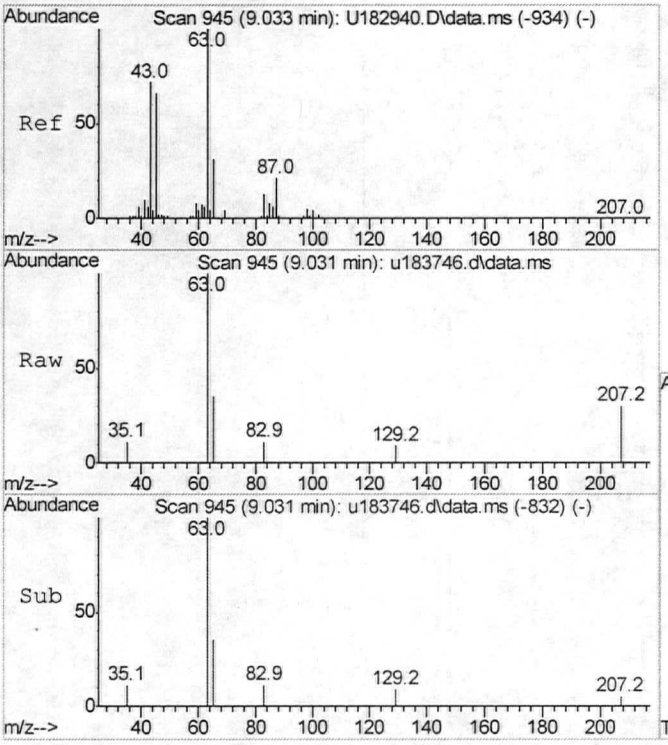


#28
1,1-dichloroethene
Concen: 0.81 ug/L
RT: 7.389 min Scan# 631
Delta R.T. 0.010 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion: 96 Resp: 1812

Ion	Ratio	Lower	Upper
96	100		
61	159.6	132.3	192.3
63	34.8	19.4	79.4

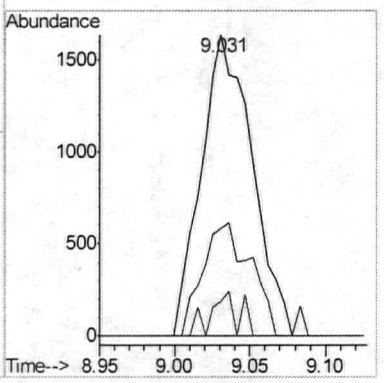




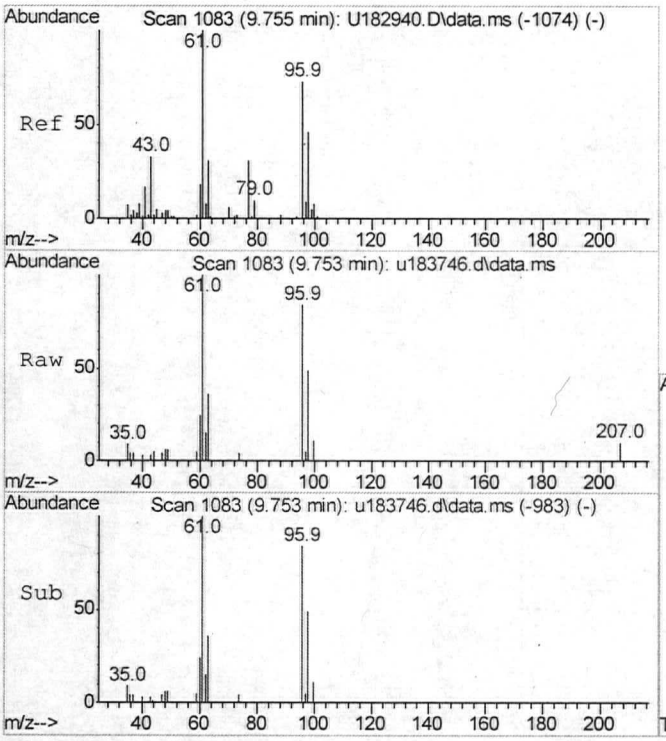
#42
1,1-dichloroethane
Concen: 0.94 ug/L
RT: 9.031 min Scan# 945
Delta R.T. -0.000 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion: 63 Resp: 3843

Ion	Ratio	Lower	Upper
63	100		
65	35.5	1.7	61.7
83	11.5	0.0	43.5



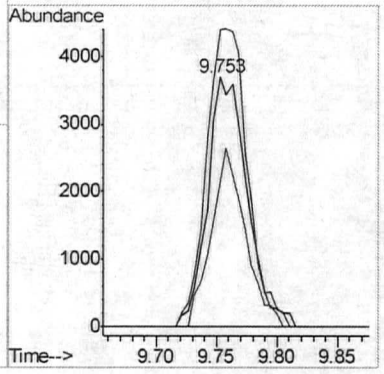
7.1.6

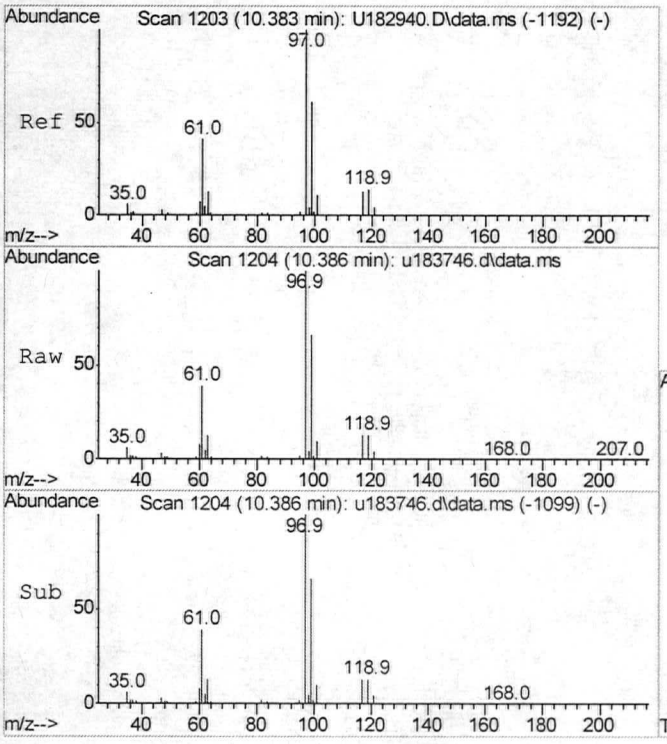


#48
cis-1,2-dichloroethene
Concen: 3.16 ug/L
RT: 9.753 min Scan# 1083
Delta R.T. -0.005 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion: 96 Resp: 8449

Ion	Ratio	Lower	Upper
96	100		
61	119.0	117.8	177.8
98	57.8	36.4	96.4

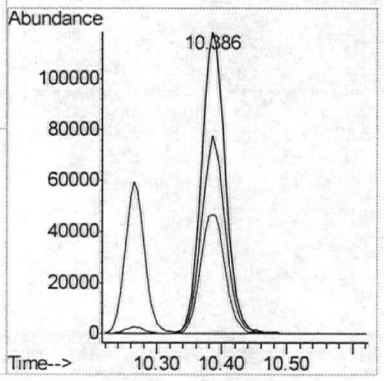




#60
1,1,1-trichloroethane
Concen: 79.99 ug/L
RT: 10.386 min Scan# 1204
Delta R.T. -0.000 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion: 97 Resp: 302411

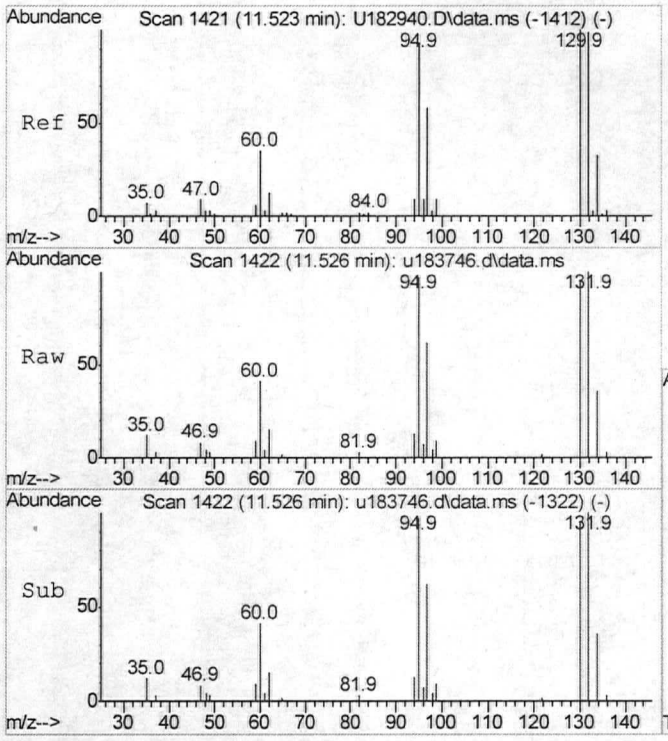
Ion	Ratio	Lower	Upper
97	100		
99	65.6	30.1	90.1
61	39.3	9.5	69.5



7.1.6

7

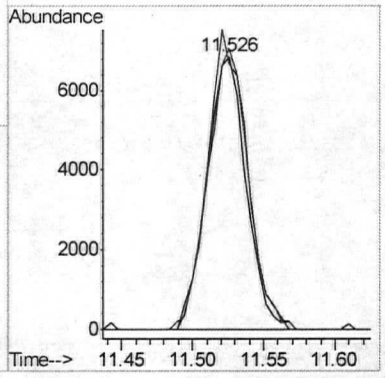
ACCUTEST LABORATORIES
JB66517

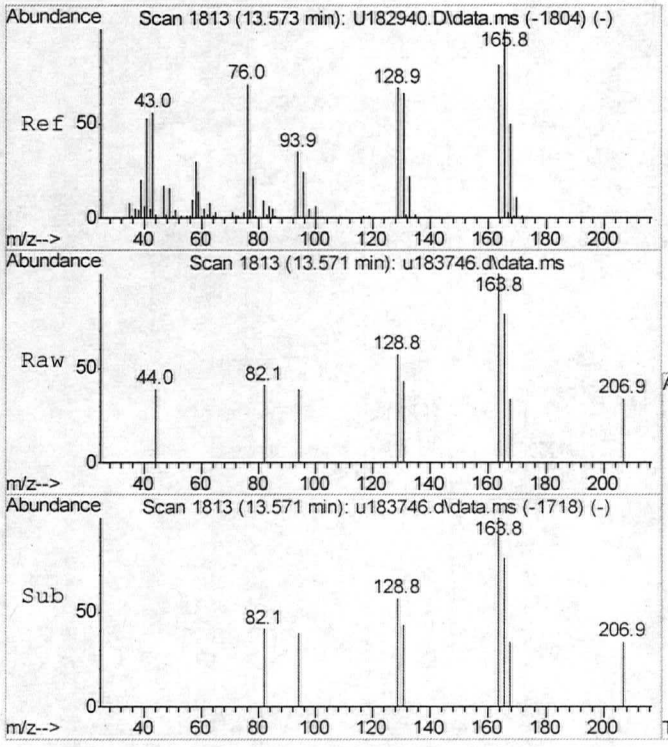


#78
trichloroethene
Concen: 5.74 ug/L
RT: 11.526 min Scan# 1422
Delta R.T. 0.005 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion: 95 Resp: 13261

Ion	Ratio	Lower	Upper
95	100		
130	97.3	81.8	141.8
132	102.7	75.7	135.7

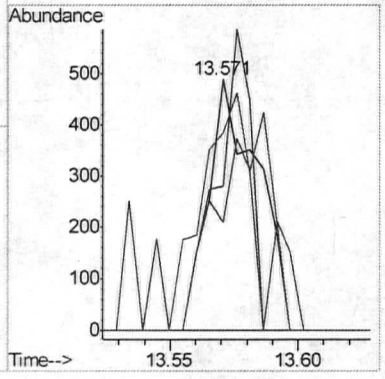




#98
tetrachloroethene
Concen: 0.29 ug/L
RT: 13.571 min Scan# 1813
Delta R.T. -0.006 min
Lab File: u183746.d
Acq: 10 May 2014 6:32 pm

Tgt Ion:164 Resp: 654

Ion	Ratio	Lower	Upper
164	100		
129	57.5	55.7	115.7
131	42.5	52.8	112.8#
166	78.7	91.7	151.7#



7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183741.d
Acq On : 10 May 2014 4:06 pm
Operator : conniex
Sample : jb66517-5
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 59 Sample Multiplier: 1

Quant Time: May 12 15:41:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.057	65	127638	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	268205	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.185	114	380282	50.00	ug/L	0.00
96) chlorobenzene-d5	14.517	117	368489	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.095	152	228034	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	119305	53.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.10%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	136309	54.86	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.72%			
88) toluene-d8 (s)	12.880	98	445452	56.03	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.06%			
114) 4-bromofluorobenzene (s)	15.793	95	182656	54.38	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.76%			
Target Compounds						Qvalue
90) toluene	12.963	92	1220	0.21	ug/L #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

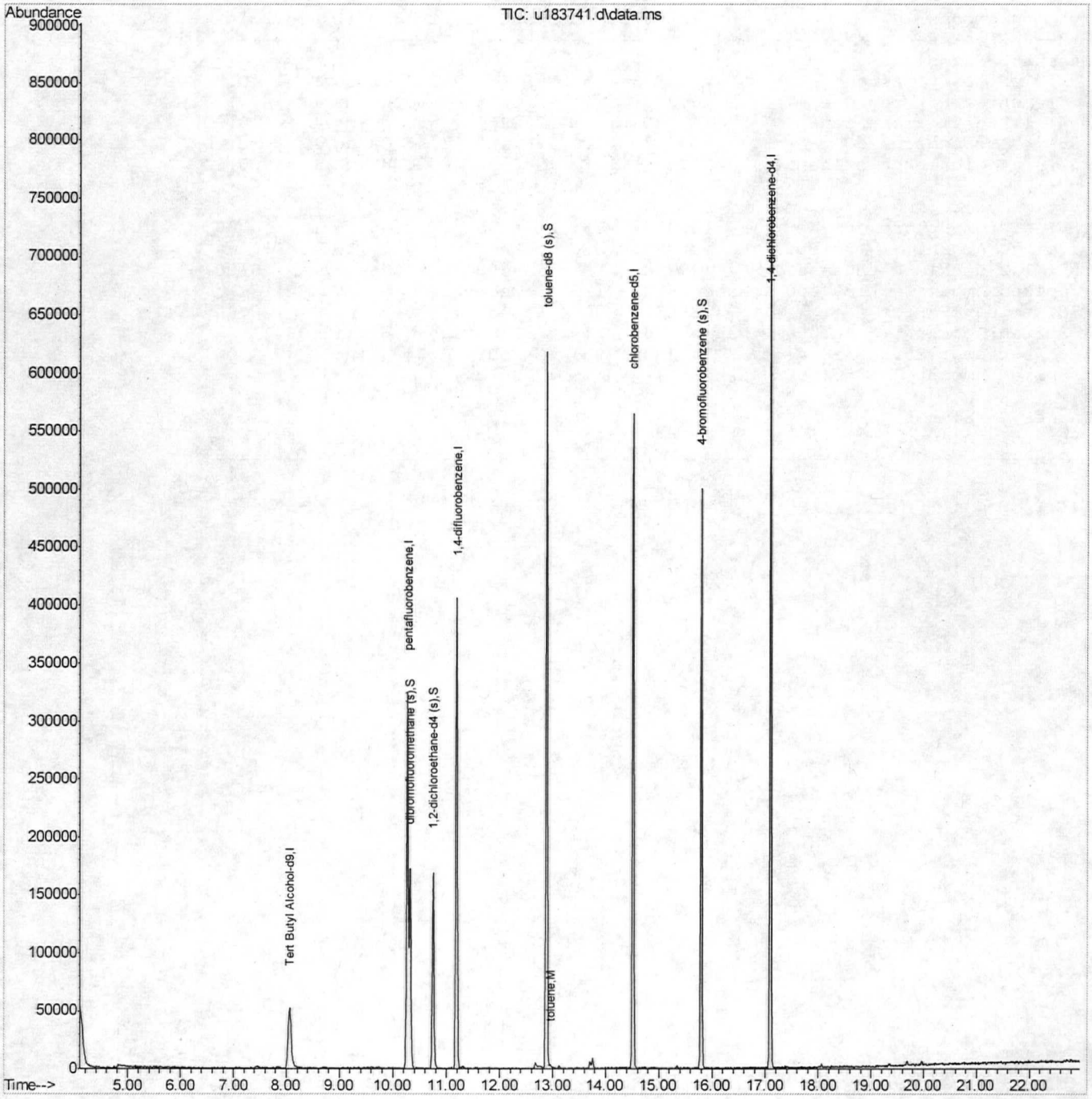
7.1.7

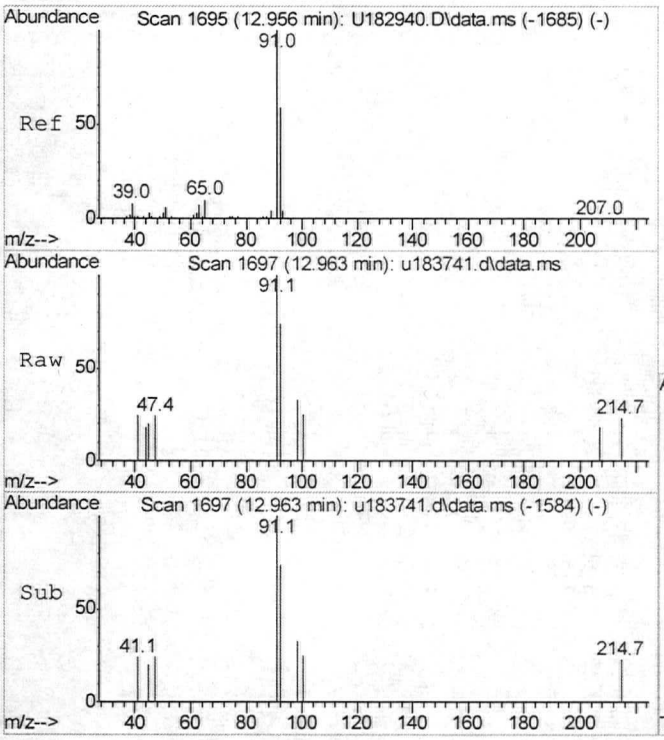
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183741.d
Acq On : 10 May 2014 4:06 pm
Operator : conniex
Sample : jb66517-5
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 59 Sample Multiplier: 1

Quant Time: May 12 15:41:05 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

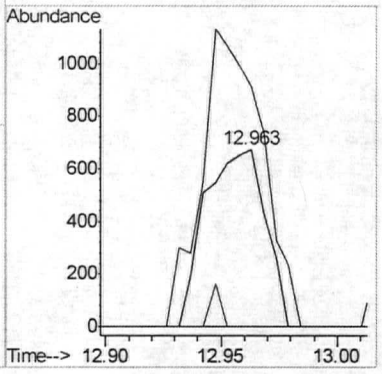




#90
toluene
Concen: 0.21 ug/L
RT: 12.963 min Scan# 1697
Delta R.T. 0.009 min
Lab File: u183741.d
Acq: 10 May 2014 4:06 pm

Tgt Ion: 92 Resp: 1220

Ion	Ratio	Lower	Upper
92	100		
91	135.7	138.0	198.0#
65	0.0	0.0	47.9



7.1.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183742.d
Acq On : 10 May 2014 4:36 pm
Operator : conniex
Sample : jb66517-6
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 60 Sample Multiplier: 1

Quant Time: May 12 15:42:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.057	65	126008	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	268416	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.185	114	380772	50.00	ug/L	0.00
96) chlorobenzene-d5	14.517	117	369063	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	229094	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	115813	51.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 102.90%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	134431	54.06	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.12%			
88) toluene-d8 (s)	12.880	98	446792	56.12	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.24%			
114) 4-bromofluorobenzene (s)	15.793	95	183388	54.35	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.70%			
Target Compounds						Qvalue
42) 1,1-dichloroethane	9.035	63	2097	0.51	ug/L	81
60) 1,1,1-trichloroethane	10.385	97	2579	0.67	ug/L	91
98) tetrachloroethene	13.575	164	1257	0.54	ug/L #	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

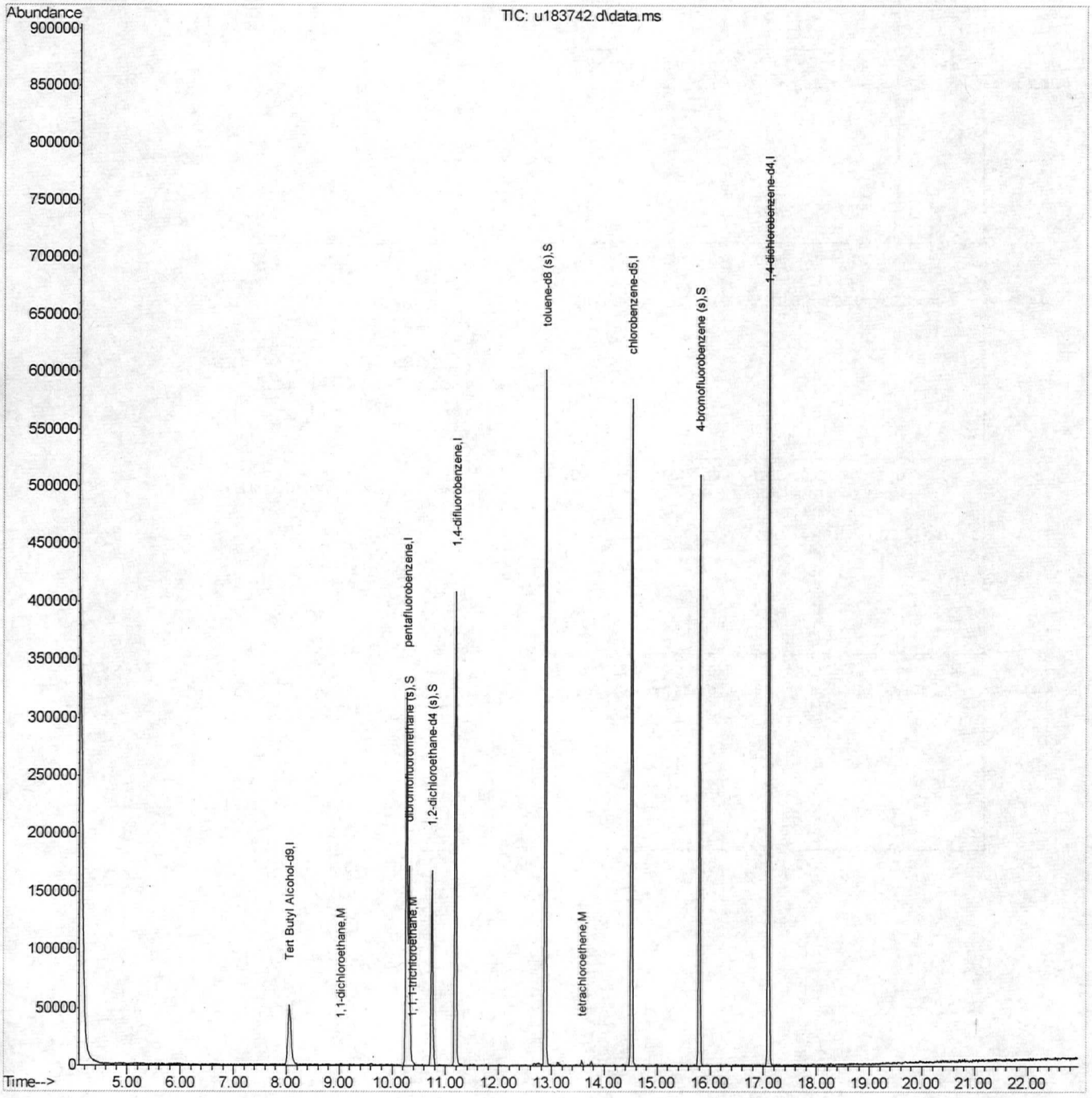
7.1.8

7

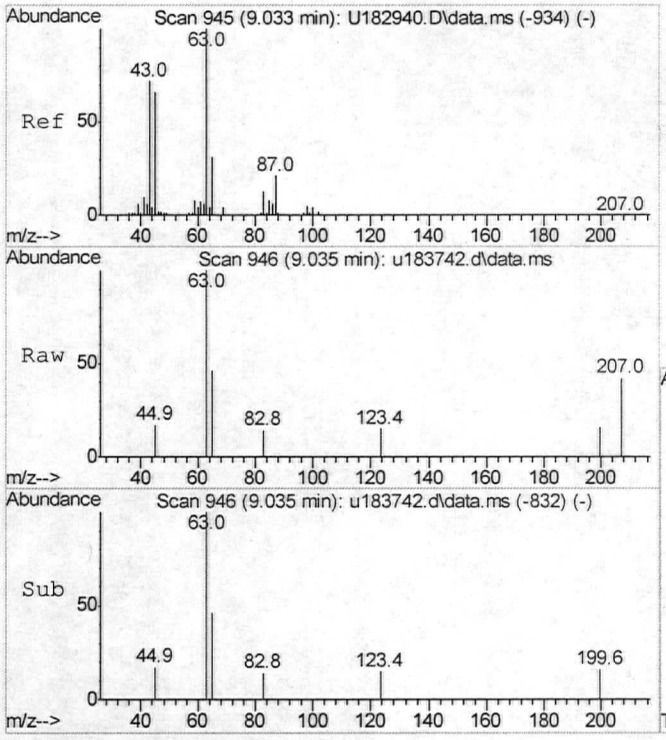
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183742.d
Acq On : 10 May 2014 4:36 pm
Operator : conniex
Sample : jb66517-6
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 60 Sample Multiplier: 1

Quant Time: May 12 15:42:19 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



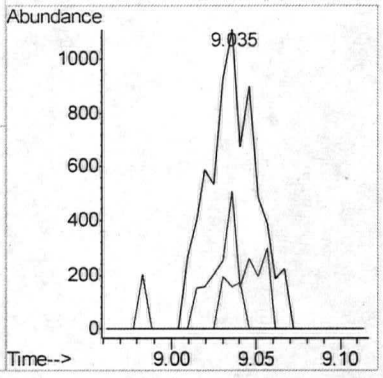
ACCUTEST LABORATORIES JB66517

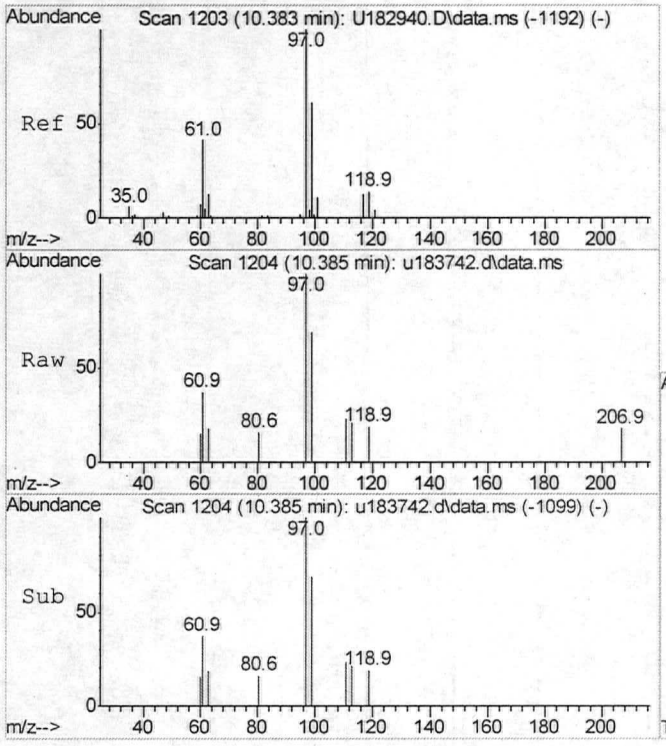


#42
1,1-dichloroethane
Concen: 0.51 ug/L
RT: 9.035 min Scan# 946
Delta R.T. 0.004 min
Lab File: u183742.d
Acq: 10 May 2014 4:36 pm

Tgt Ion: 63 Resp: 2097

Ion	Ratio	Lower	Upper
63	100		
65	46.0	1.7	61.7
83	14.1	0.0	43.5

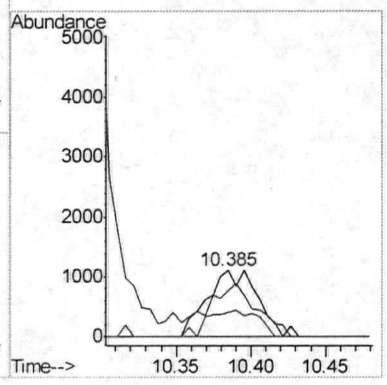




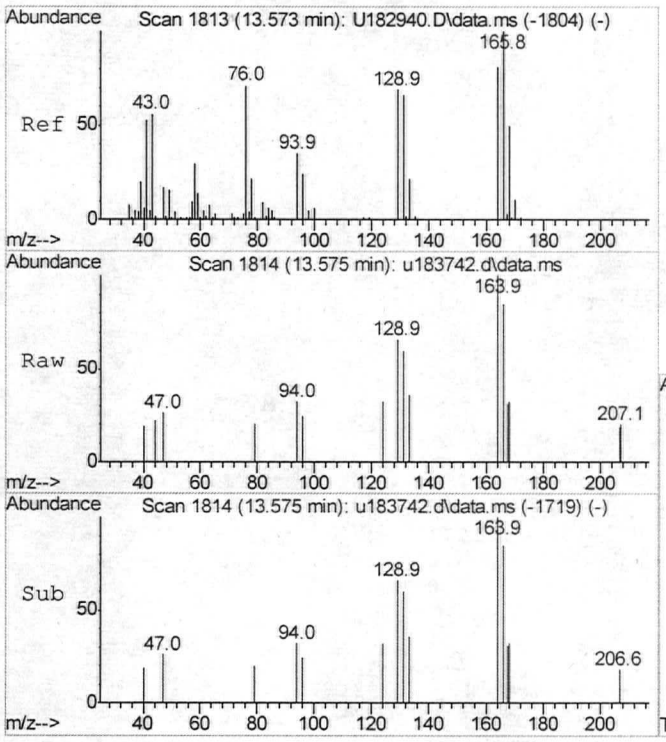
#60
1,1,1-trichloroethane
Concen: 0.67 ug/L
RT: 10.385 min Scan# 1204
Delta R.T. -0.001 min
Lab File: u183742.d
Acq: 10 May 2014 4:36 pm

Tgt Ion: 97 Resp: 2579

Ion	Ratio	Lower	Upper
97	100		
99	69.4	30.1	90.1
61	36.8	9.5	69.5



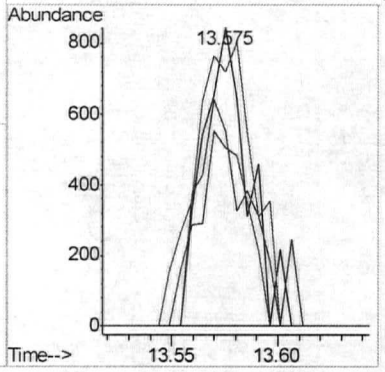
7.1.8 7



#98
tetrachloroethene
Concen: 0.54 ug/L
RT: 13.575 min Scan# 1814
Delta R.T. -0.001 min
Lab File: u183742.d
Acq: 10 May 2014 4:36 pm

Tgt Ion:164 Resp: 1257

Ion	Ratio	Lower	Upper
164	100		
129	65.6	55.7	115.7
131	59.8	52.8	112.8
166	85.2	91.7	151.7#



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183745.d
Acq On : 10 May 2014 6:03 pm
Operator : conniex
Sample : jb66517-7
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 63 Sample Multiplier: 1

Quant Time: May 12 15:45:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.069	65	136189	500.00	ug/L	0.03
5) pentafluorobenzene	10.265	168	257065	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	361118	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	358907	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	222817	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	111937	51.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 103.86%			
57) 1,2-dichloroethane-d4 (s)	10.741	65	130521	54.81	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.62%			
88) toluene-d8 (s)	12.880	98	431572	57.16	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.32%			
114) 4-bromofluorobenzene (s)	15.793	95	175560	53.49	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 106.98%			
Target Compounds						Qvalue
42) 1,1-dichloroethane	9.041	63	3238	0.82	ug/L	96
48) cis-1,2-dichloroethene	9.758	96	2122	0.82	ug/L #	64
60) 1,1,1-trichloroethane	10.385	97	3341	0.91	ug/L	86
78) trichloroethene	11.520	95	834	0.37	ug/L	87
98) tetrachloroethene	13.571	164	1375	0.60	ug/L	97
109) o-xylene	15.192	106	1295	0.28	ug/L	86
123) 1,3,5-trimethylbenzene	16.196	105	9716	0.95	ug/L	99
126) 1,2,4-trimethylbenzene	16.630	105	24077	2.33	ug/L	97
130) p-isopropyltoluene	16.887	119	5988	0.51	ug/L	94

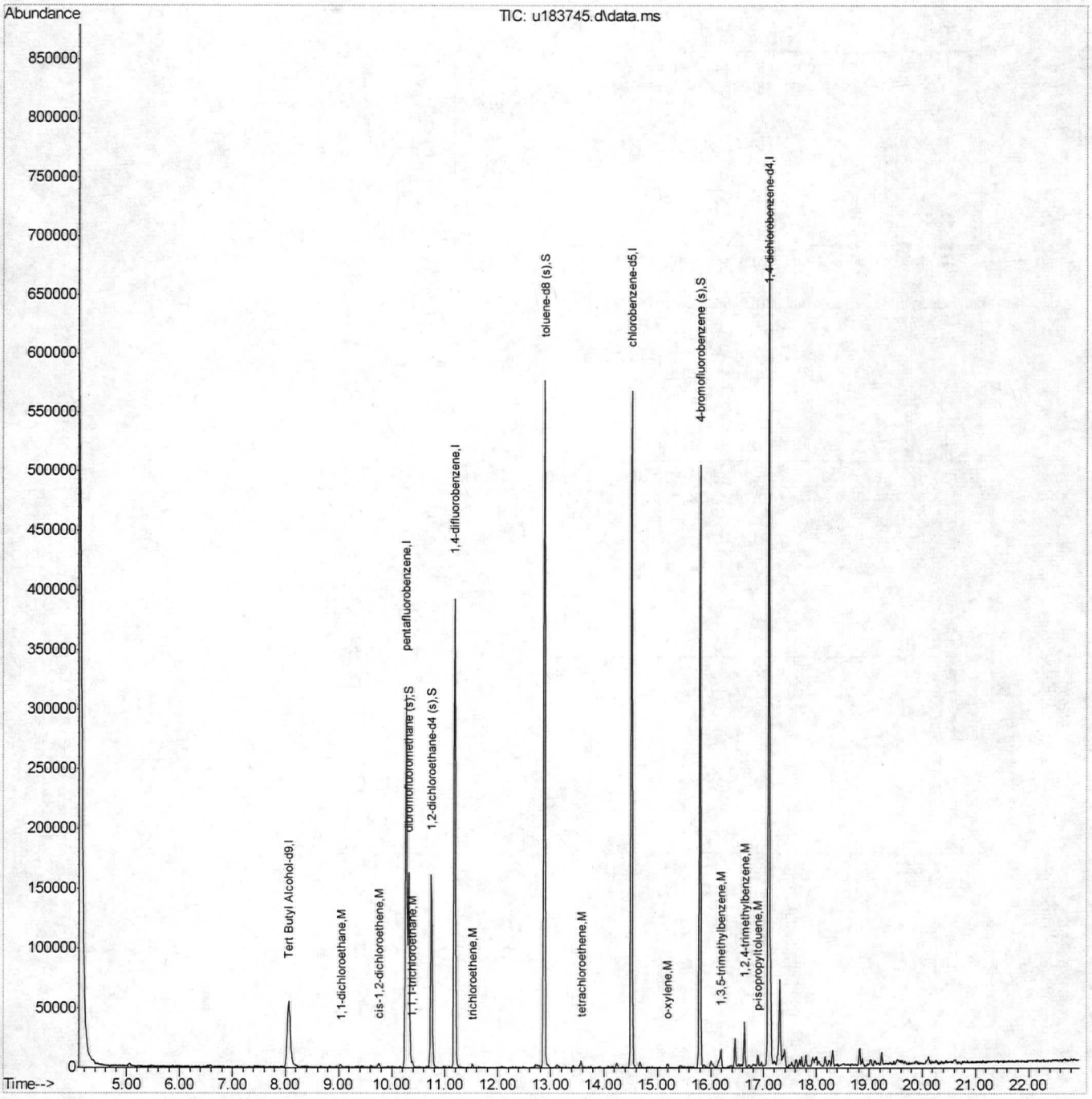
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9

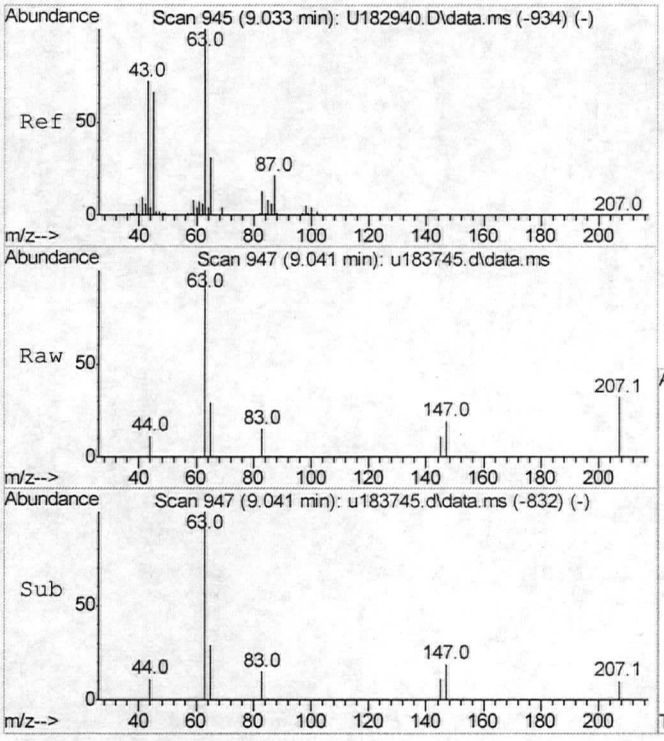
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183745.d
Acq On : 10 May 2014 6:03 pm
Operator : conniex
Sample : jb66517-7
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 63 Sample Multiplier: 1

Quant Time: May 12 15:45:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



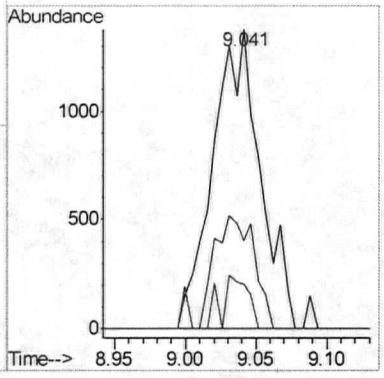
ACCUTEST LABORATORIES JB66517

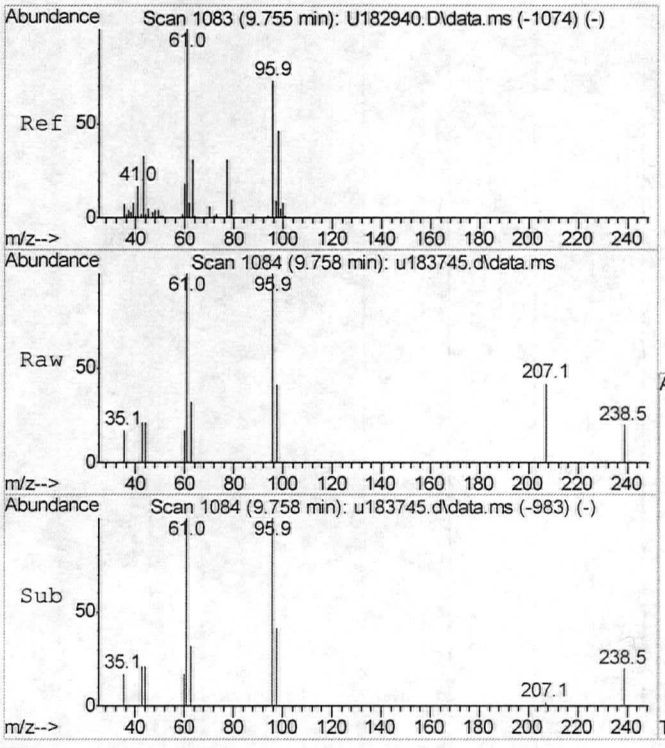


#42
1,1-dichloroethane
Concen: 0.82 ug/L
RT: 9.041 min Scan# 947
Delta R.T. 0.010 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion: 63 Resp: 3238

Ion	Ratio	Lower	Upper
63	100		
65	29.2	1.7	61.7
83	14.9	0.0	43.5

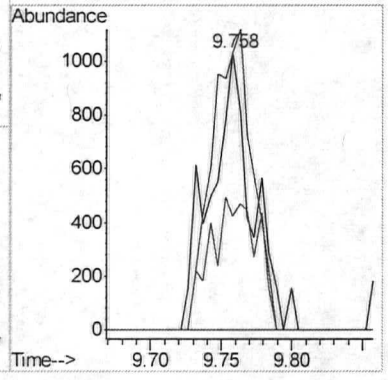




#48
cis-1,2-dichloroethene
Concen: 0.82 ug/L
RT: 9.758 min Scan# 1084
Delta R.T. -0.000 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion: 96 Resp: 2122

Ion	Ratio	Lower	Upper
96	100		
61	99.5	117.8	177.8#
98	40.9	36.4	96.4



7.1.9

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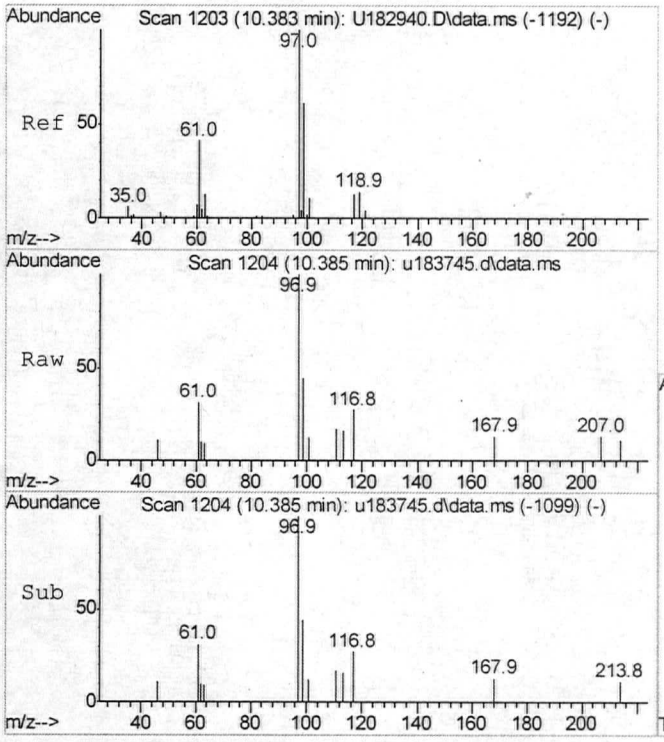
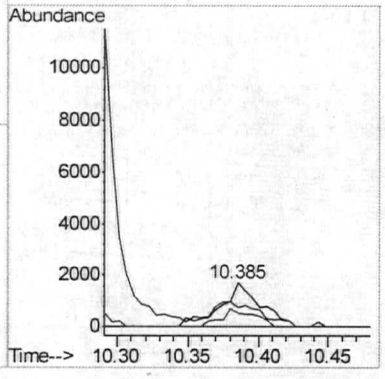
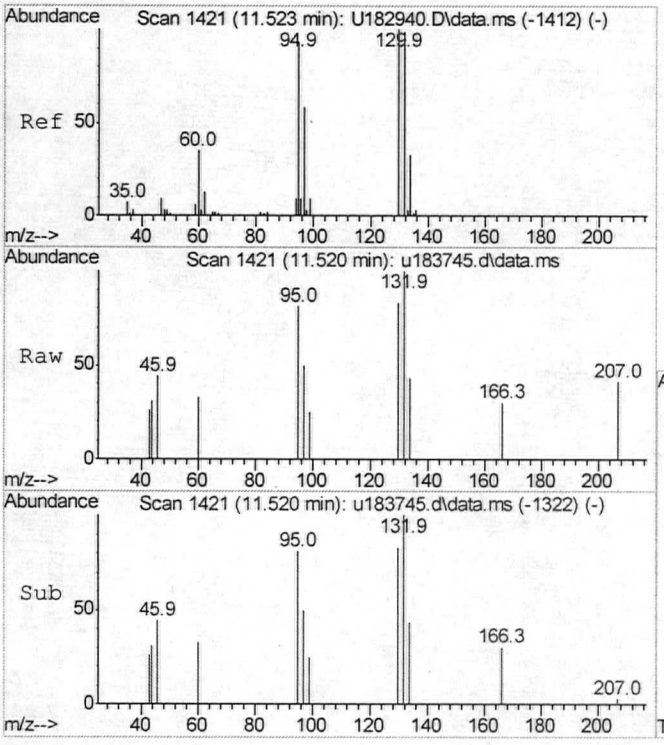


#60
1,1,1-trichloroethane
Concen: 0.91 ug/L
RT: 10.385 min Scan# 1204
Delta R.T. -0.000 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion: 97 Resp: 3341

Ion	Ratio	Lower	Upper
97	100		
99	44.0	30.1	90.1
61	41.1	9.5	69.5

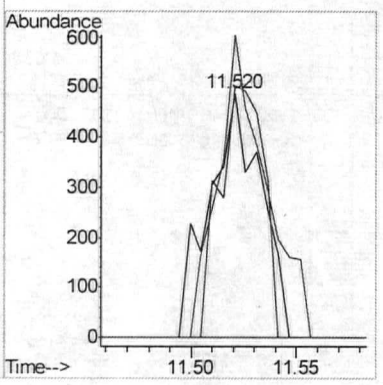




#78
trichloroethene
Concen: 0.37 ug/L
RT: 11.520 min Scan# 1421
Delta R.T. -0.000 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion: 95 Resp: 834

Ion	Ratio	Lower	Upper
95	100		
130	103.1	81.8	141.8
132	123.8	75.7	135.7



7.1.9

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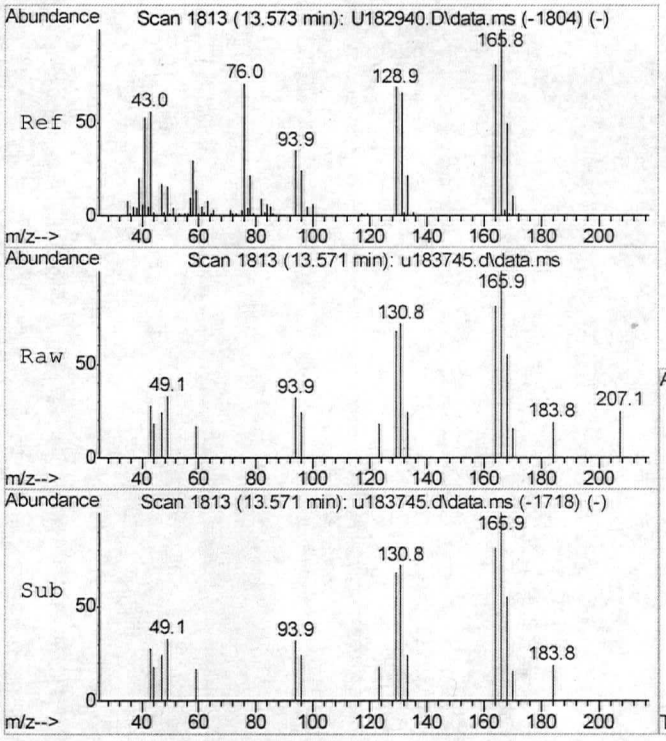
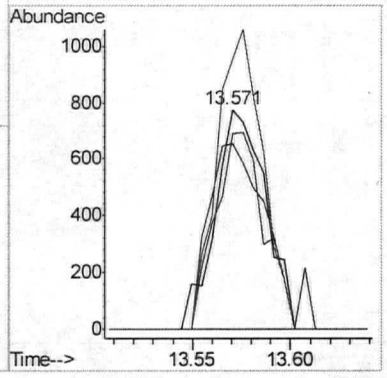
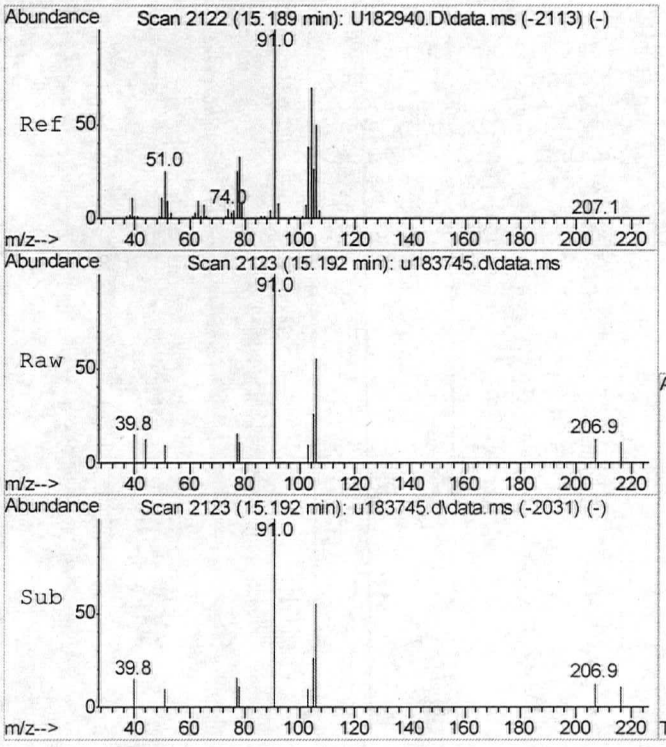


#98
tetrachloroethene
Concen: 0.60 ug/L
RT: 13.571 min Scan# 1813
Delta R.T. -0.006 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion:164 Resp: 1375

Ion	Ratio	Lower	Upper
164	100		
129	84.4	55.7	115.7
131	88.9	52.8	112.8
166	123.2	91.7	151.7

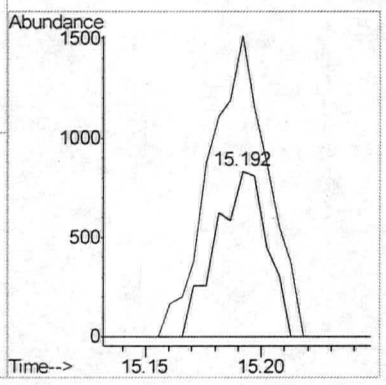




#109
o-xylene
Concen: 0.28 ug/L
RT: 15.192 min Scan# 2123
Delta R.T. -0.000 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion:106 Resp: 1295

Ion	Ratio	Lower	Upper
106	100		
91	181.8	173.5	233.5



7.1.9

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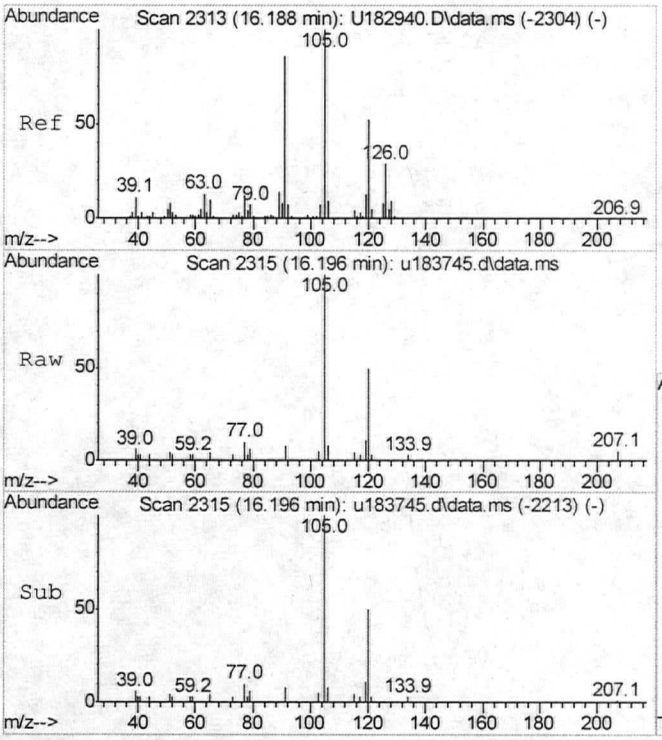
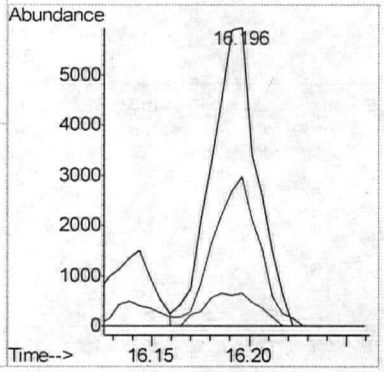
JB66517

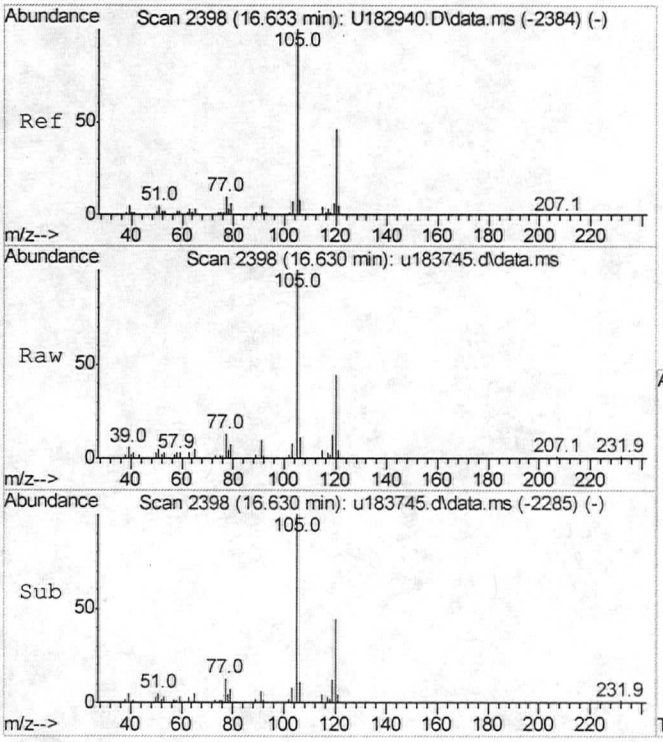


#123
1,3,5-trimethylbenzene
Concen: 0.95 ug/L
RT: 16.196 min Scan# 2315
Delta R.T. 0.005 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion:105 Resp: 9716

Ion	Ratio	Lower	Upper
105	100		
120	49.9	19.9	79.9
119	11.1	0.0	42.8

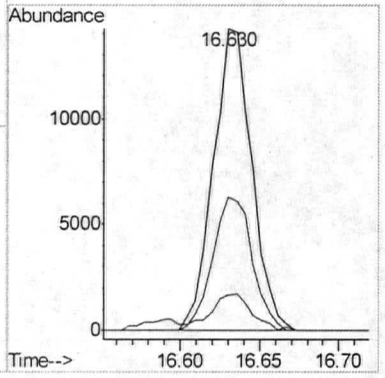




#126
1,2,4-trimethylbenzene
Concen: 2.33 ug/L
RT: 16.630 min Scan# 2398
Delta R.T. -0.000 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion:105 Resp: 24077

Ion	Ratio	Lower	Upper
105	100		
120	44.2	16.8	76.8
119	11.7	0.0	41.7



7.1.9

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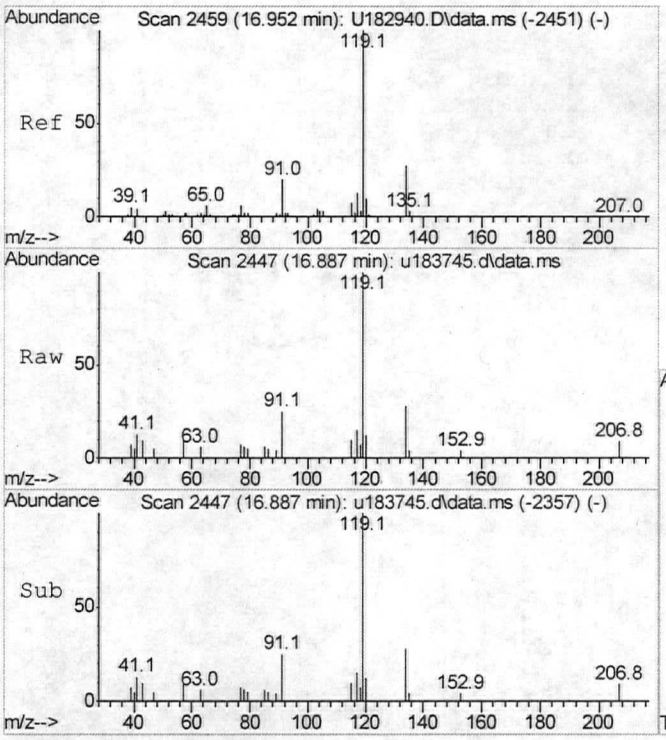
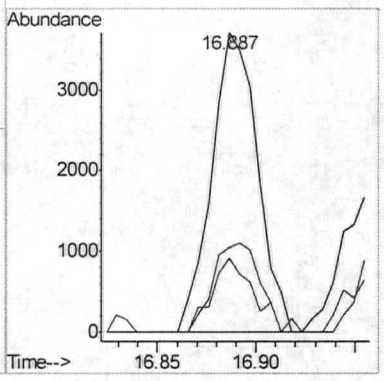


#130
p-isopropyltoluene
Concen: 0.51 ug/L
RT: 16.887 min Scan# 2447
Delta R.T. -0.068 min
Lab File: u183745.d
Acq: 10 May 2014 6:03 pm

Tgt Ion:119 Resp: 5988

Ion	Ratio	Lower	Upper
119	100		
134	28.1	0.0	56.2
91	24.6	0.0	50.8



7.1.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183734.d
Acq On : 10 May 2014 12:32 pm
Operator : conniex
Sample : jb66517-8
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: May 12 15:32:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.067	65	133958	500.00	ug/L	0.03
5) pentafluorobenzene	10.269	168	264128	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.184	114	381476	50.00	ug/L	0.00
96) chlorobenzene-d5	14.516	117	382843	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.095	152	227658	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.316	113	116465	52.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.16%			
57) 1,2-dichloroethane-d4 (s)	10.745	65	132917	54.32	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.64%			
88) toluene-d8 (s)	12.879	98	455912	57.16	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.32%			
114) 4-bromofluorobenzene (s)	15.792	95	186096	55.50	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.00%			
Target Compounds						Qvalue
42) 1,1-dichloroethane	9.035	63	19105	4.71	ug/L	92
48) cis-1,2-dichloroethene	9.751	96	1943	0.73	ug/L #	73
60) 1,1,1-trichloroethane	10.390	97	17122	4.55	ug/L	90
78) trichloroethene	11.524	95	2294	0.97	ug/L	94
98) tetrachloroethene	13.575	164	10926	4.50	ug/L	97

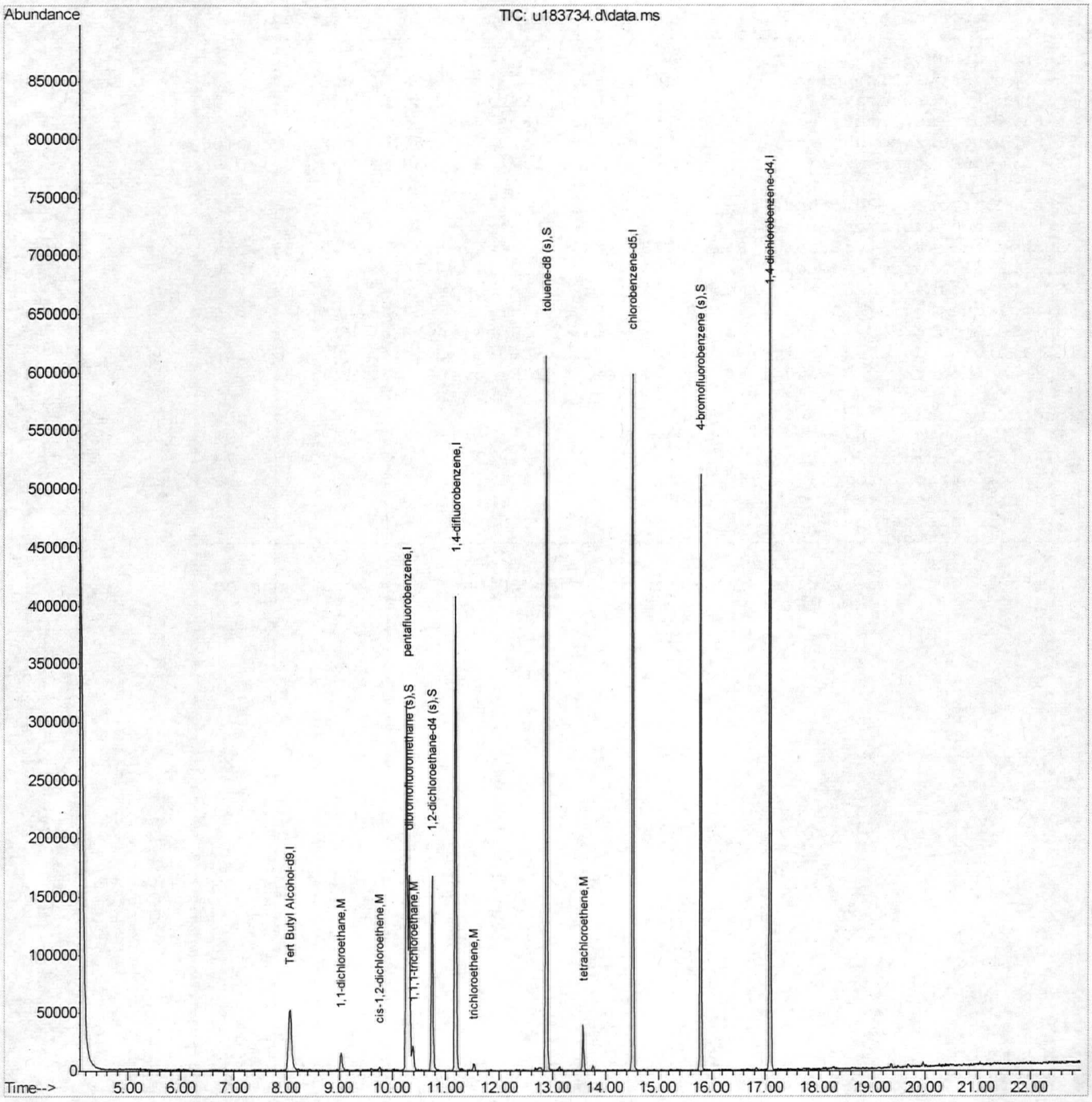
(#) = qualifier out of range (m) = manual integration (+) = signals summed

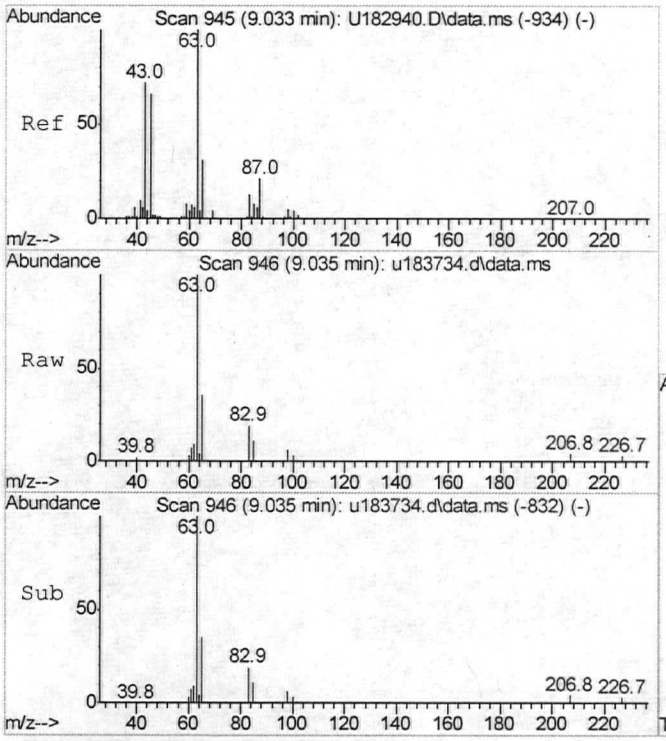
7.1.10 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183734.d
Acq On : 10 May 2014 12:32 pm
Operator : conniex
Sample : jb66517-8
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Time: May 12 15:32:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

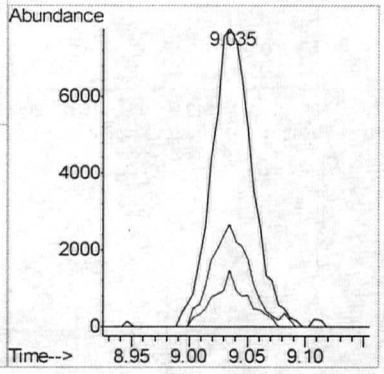


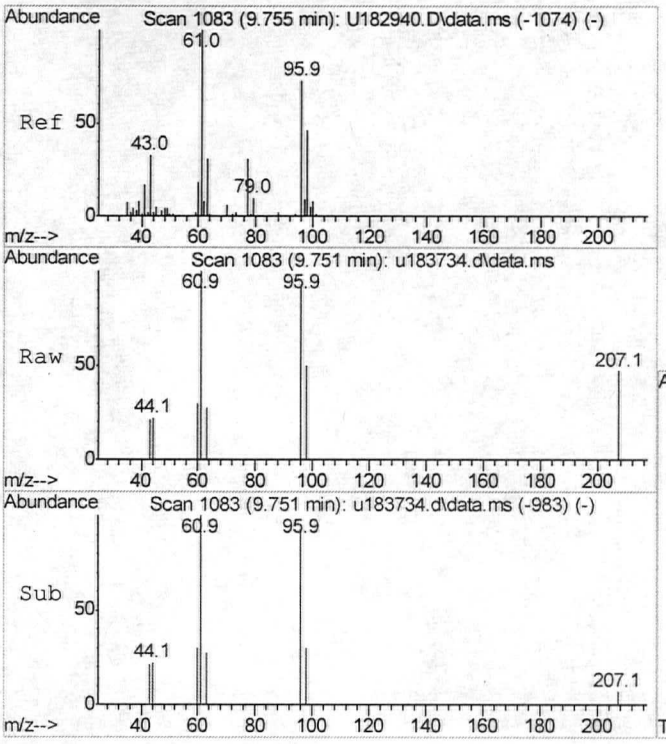


#42
1,1-dichloroethane
Concen: 4.71 ug/L
RT: 9.035 min Scan# 946
Delta R.T. 0.004 min
Lab File: u183734.d
Acq: 10 May 2014 12:32 pm

Tgt Ion: 63 Resp: 19105

Ion	Ratio	Lower	Upper
63	100		
65	34.7	1.7	61.7
83	18.9	0.0	43.5

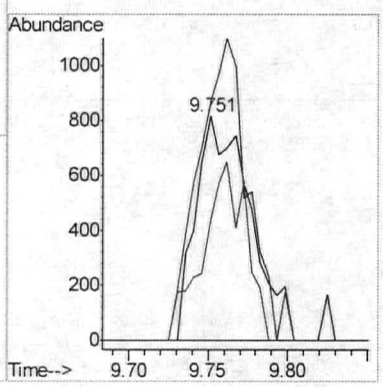




#48
cis-1,2-dichloroethene
Concen: 0.73 ug/L
RT: 9.751 min Scan# 1083
Delta R.T. -0.007 min
Lab File: u183734.d
Acq: 10 May 2014 12:32 pm

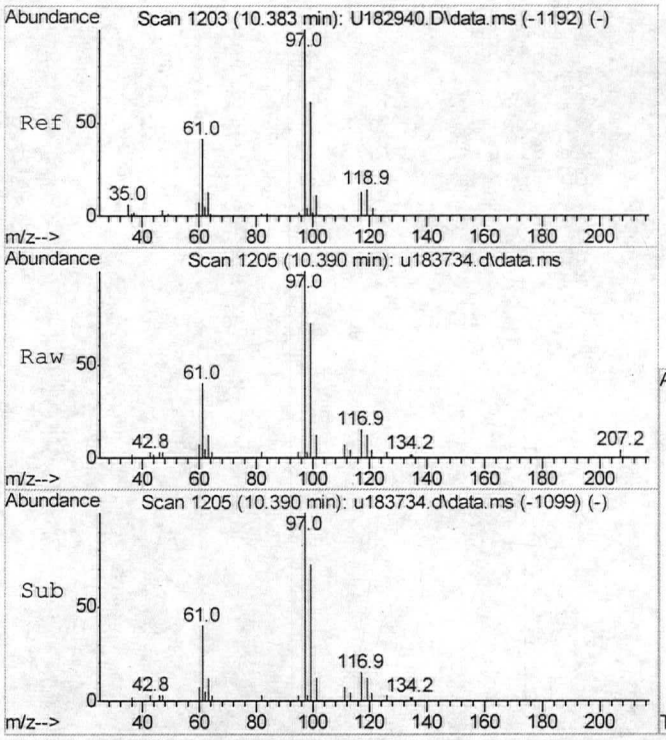
Tgt Ion: 96 Resp: 1943

Ion	Ratio	Lower	Upper
96	100		
61	107.0	117.8	177.8#
98	53.6	36.4	96.4



7.1.10 7

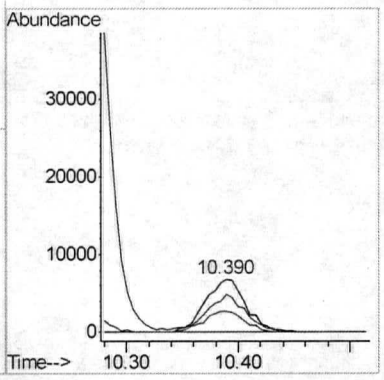
ACCUTEST LABORATORIES JB66517

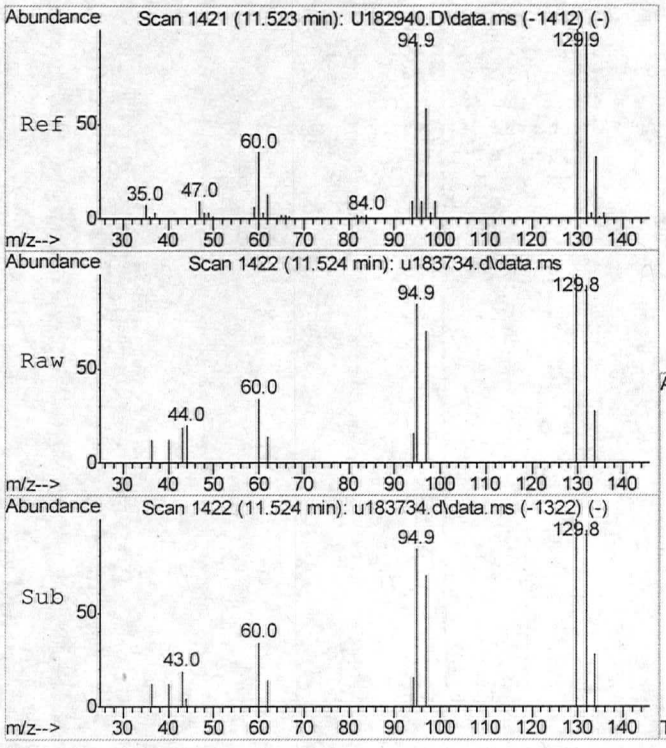


#60
1,1,1-trichloroethane
Concen: 4.55 ug/L
RT: 10.390 min Scan# 1205
Delta R.T. 0.004 min
Lab File: u183734.d
Acq: 10 May 2014 12:32 pm

Tgt Ion: 97 Resp: 17122

Ion	Ratio	Lower	Upper
97	100		
99	72.2	30.1	90.1
61	39.9	9.5	69.5

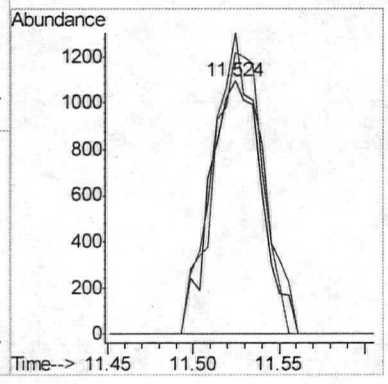




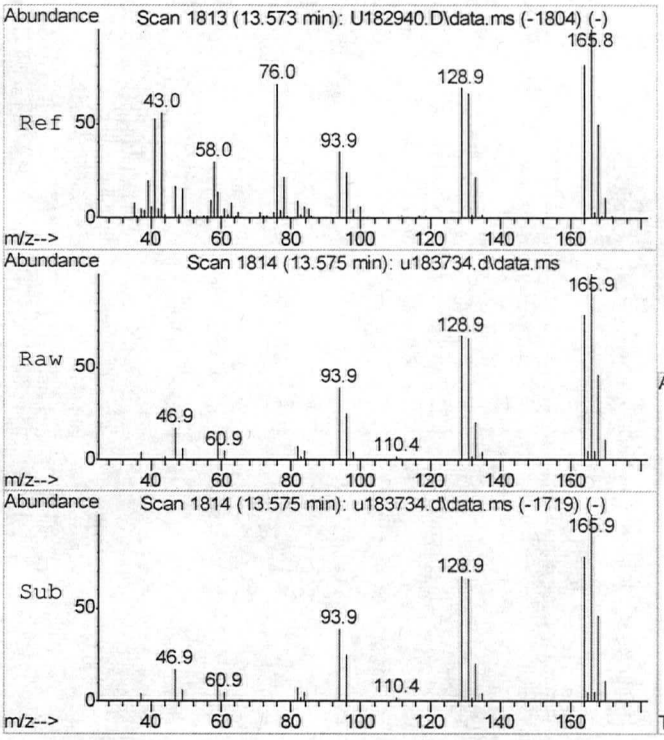
#78
trichloroethene
Concen: 0.97 ug/L
RT: 11.524 min Scan# 1422
Delta R.T. 0.004 min
Lab File: u183734.d
Acq: 10 May 2014 12:32 pm

Tgt Ion: 95 Resp: 2294

Ion	Ratio	Lower	Upper
95	100		
130	119.1	81.8	141.8
132	111.6	75.7	135.7



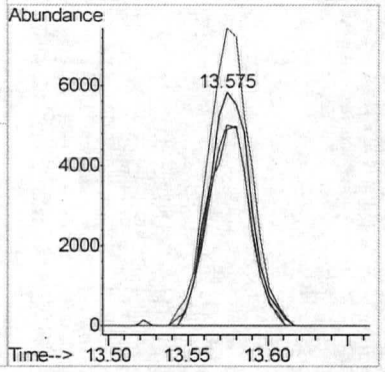
7.1.10 7



#98
tetrachloroethene
Concen: 4.50 ug/L
RT: 13.575 min Scan# 1814
Delta R.T. -0.002 min
Lab File: u183734.d
Acq: 10 May 2014 12:32 pm

Tgt Ion:164 Resp: 10926

Ion	Ratio	Lower	Upper
164	100		
129	86.1	55.7	115.7
131	84.3	52.8	112.8
166	127.7	91.7	151.7



7.1.10 7

ACCUTEST LABORATORIES JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183744.d
Acq On : 10 May 2014 5:34 pm
Operator : conniex
Sample : jb66517-9
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 62 Sample Multiplier: 1

Quant Time: May 12 15:44:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.062	65	140168	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	259575	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.185	114	367924	50.00	ug/L	0.00
96) chlorobenzene-d5	14.511	117	370352	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	226887	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	114830	52.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.50%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	130738	54.37	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.74%			
88) toluene-d8 (s)	12.879	98	440972	57.33	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.66%			
114) 4-bromofluorobenzene (s)	15.793	95	185146	55.40	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.80%			
Target Compounds						Qvalue
42) 1,1-dichloroethane	9.035	63	3271	0.82	ug/L	96
48) cis-1,2-dichloroethene	9.757	96	1954	0.75	ug/L #	56
60) 1,1,1-trichloroethane	10.379	97	2901	0.78	ug/L	88
78) trichloroethene	11.525	95	852	0.37	ug/L #	80
98) tetrachloroethene	13.570	164	1304	0.55	ug/L #	67
109) o-xylene	15.186	106	1004	0.21	ug/L	93
123) 1,3,5-trimethylbenzene	16.195	105	9981	0.96	ug/L	95
126) 1,2,4-trimethylbenzene	16.635	105	23406	2.22	ug/L	99
130) p-isopropyltoluene	16.954	119	2848	0.24	ug/L	87

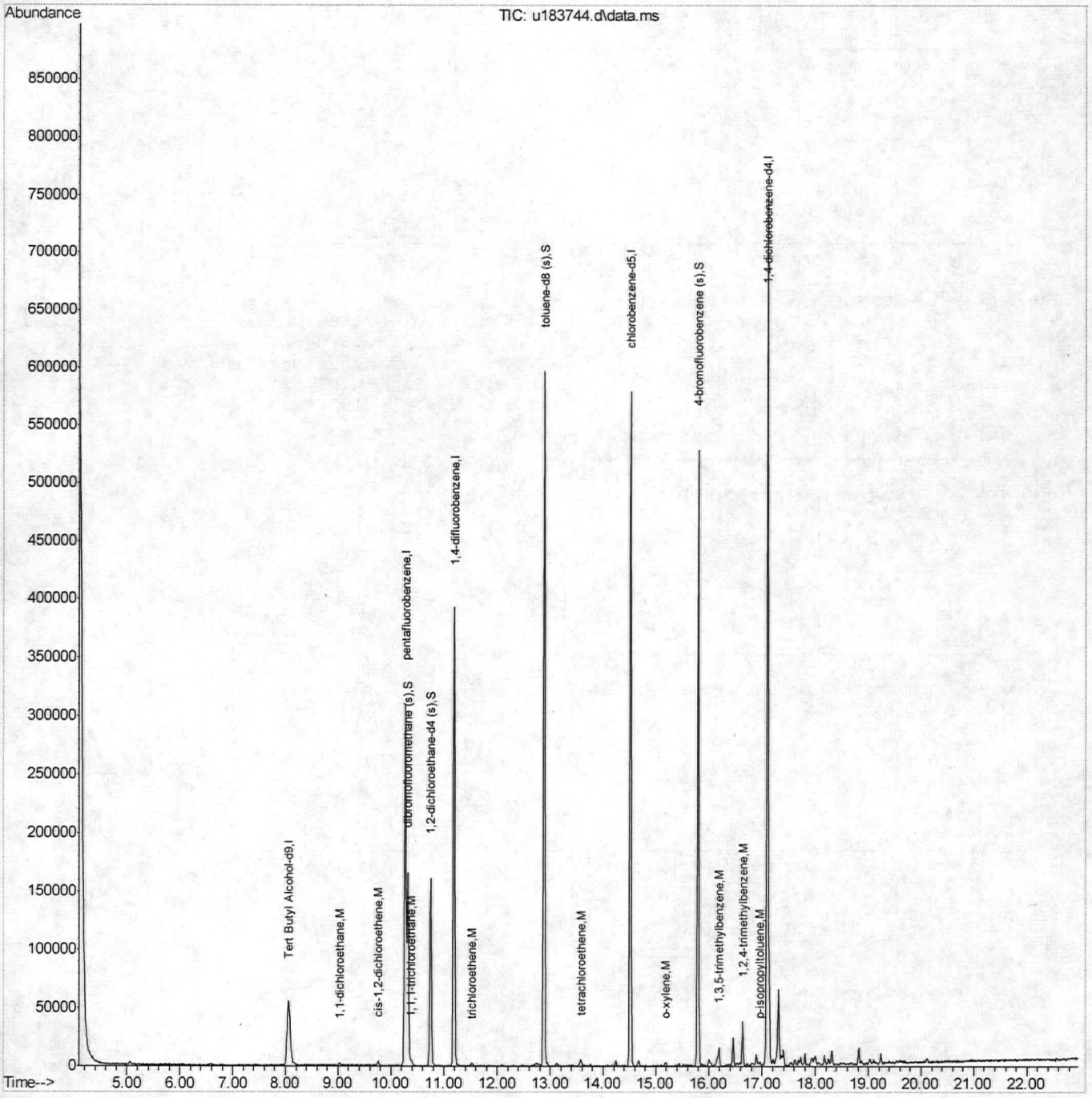
(#) = qualifier out of range (m) = manual integration (+) = signals summed

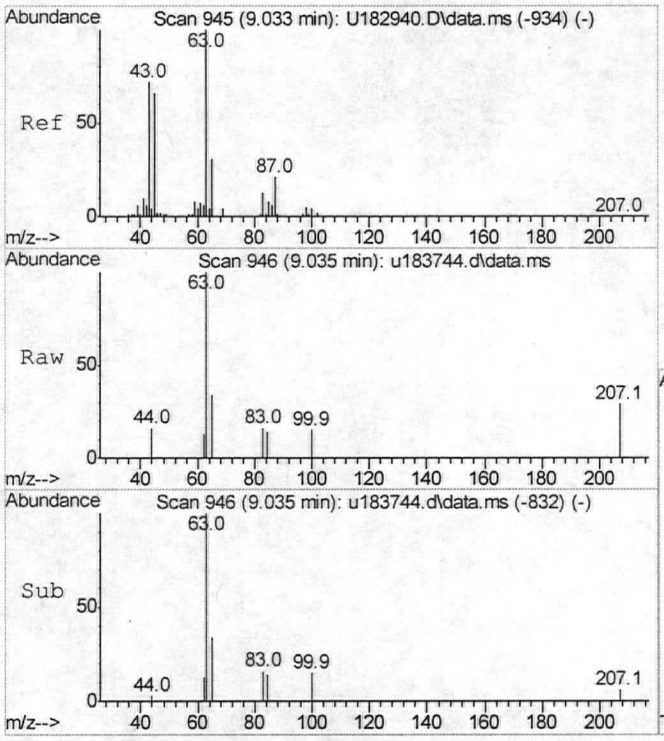
7.1.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183744.d
Acq On : 10 May 2014 5:34 pm
Operator : conniex
Sample : jb66517-9
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 62 Sample Multiplier: 1

Quant Time: May 12 15:44:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

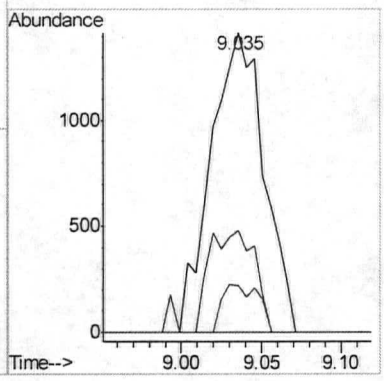


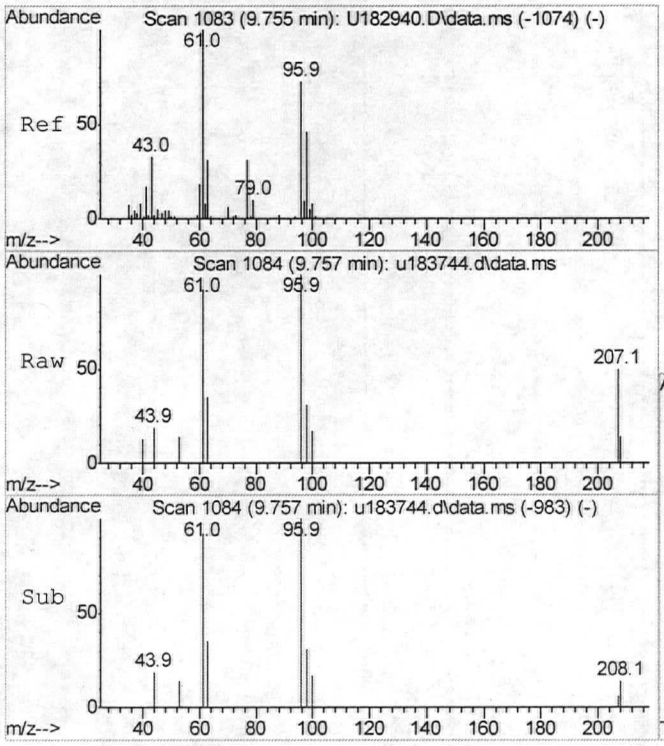


#42
1,1-dichloroethane
Concen: 0.82 ug/L
RT: 9.035 min Scan# 946
Delta R.T. 0.004 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion: 63 Resp: 3271

Ion	Ratio	Lower	Upper
63	100		
65	33.6	1.7	61.7
83	15.6	0.0	43.5

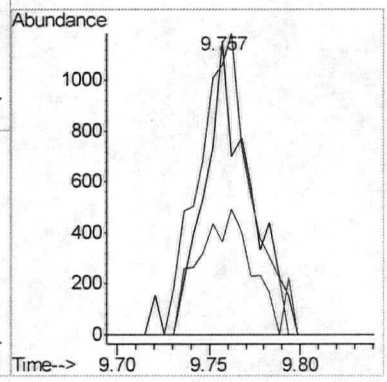




#48
cis-1,2-dichloroethene
Concen: 0.75 ug/L
RT: 9.757 min Scan# 1084
Delta R.T. -0.001 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion: 96 Resp: 1954

Ion	Ratio	Lower	Upper
96	100		
61	91.7	117.8	177.8#
98	31.3	36.4	96.4#



7.1.11

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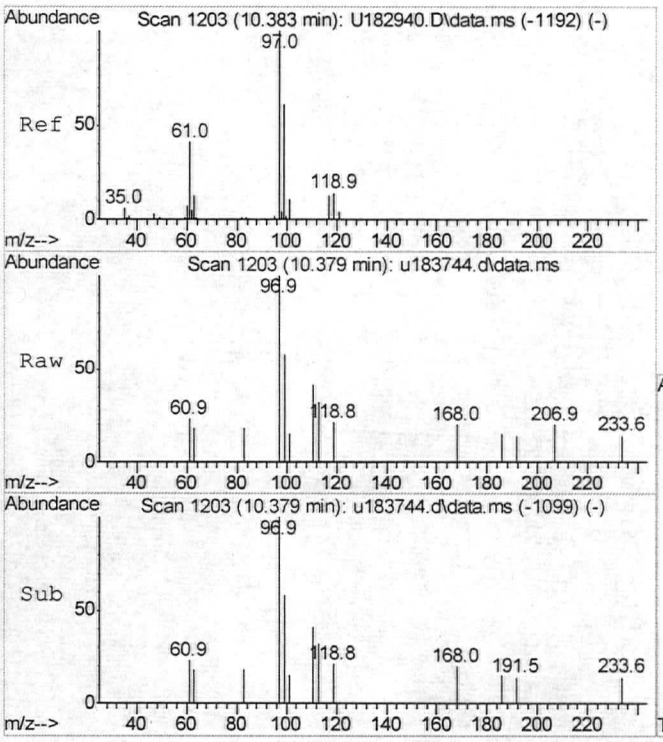
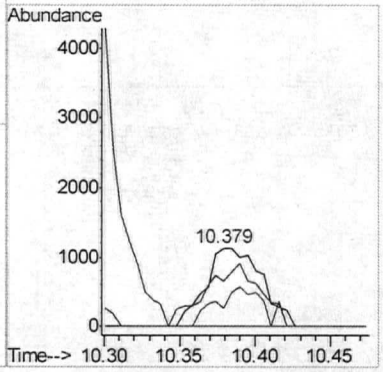
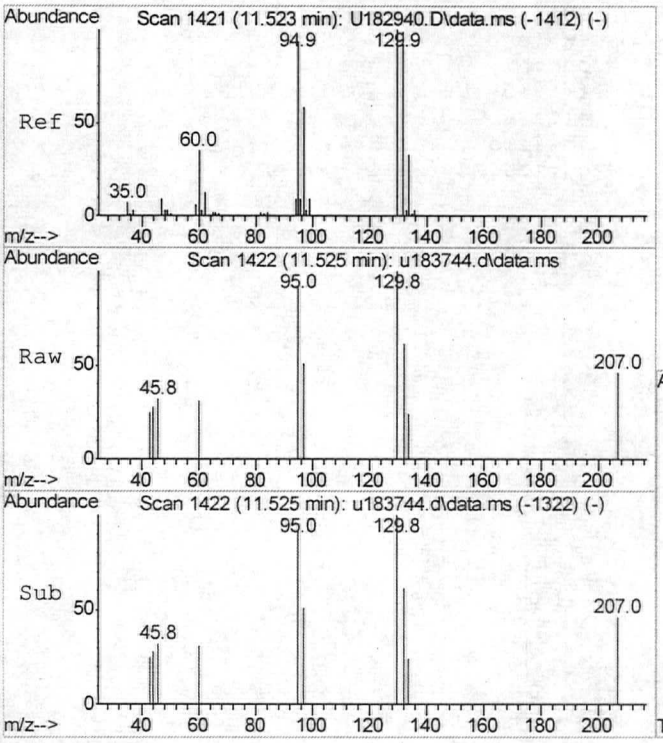


#60
1,1,1-trichloroethane
Concen: 0.78 ug/L
RT: 10.379 min Scan# 1203
Delta R.T. -0.006 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion: 97 Resp: 2901

Ion	Ratio	Lower	Upper
97	100		
99	58.5	30.1	90.1
61	23.1	9.5	69.5

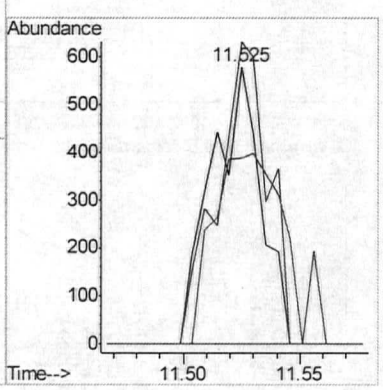




#78
trichloroethene
Concen: 0.37 ug/L
RT: 11.525 min Scan# 1422
Delta R.T. 0.004 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion: 95 Resp: 852

Ion	Ratio	Lower	Upper
95	100		
130	109.0	81.8	141.8
132	66.7	75.7	135.7#



7.1.11

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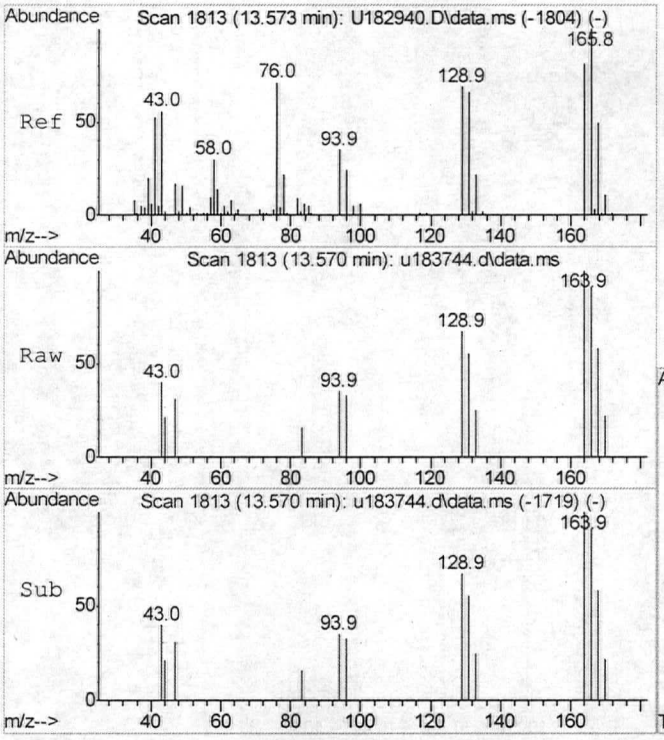
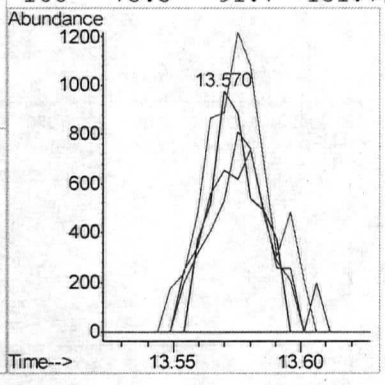
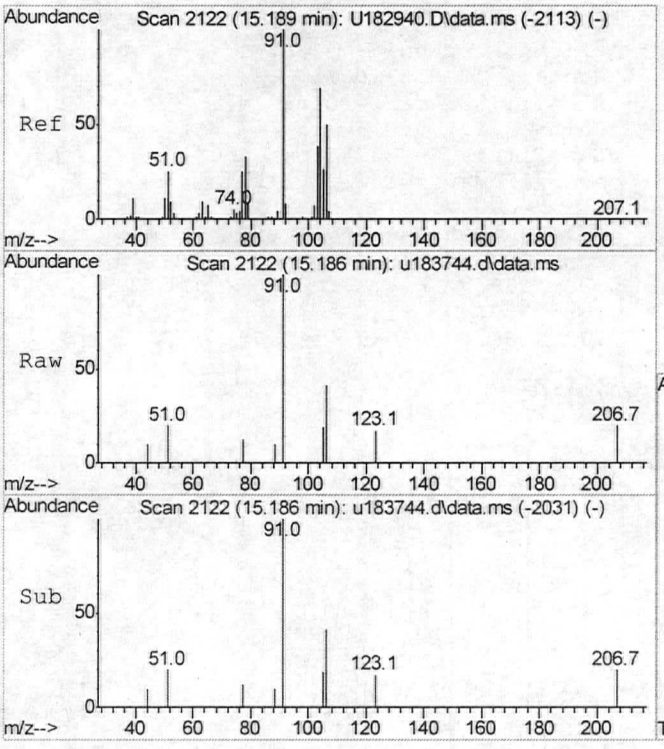


#98
tetrachloroethene
Concen: 0.55 ug/L
RT: 13.570 min Scan# 1813
Delta R.T. -0.006 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion:164 Resp: 1304

Ion	Ratio	Lower	Upper
164	100		
129	67.1	55.7	115.7
131	54.5	52.8	112.8
166	73.3	91.7	151.7#

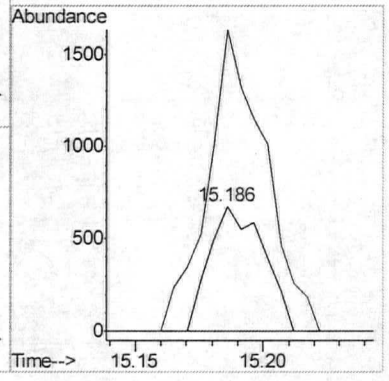


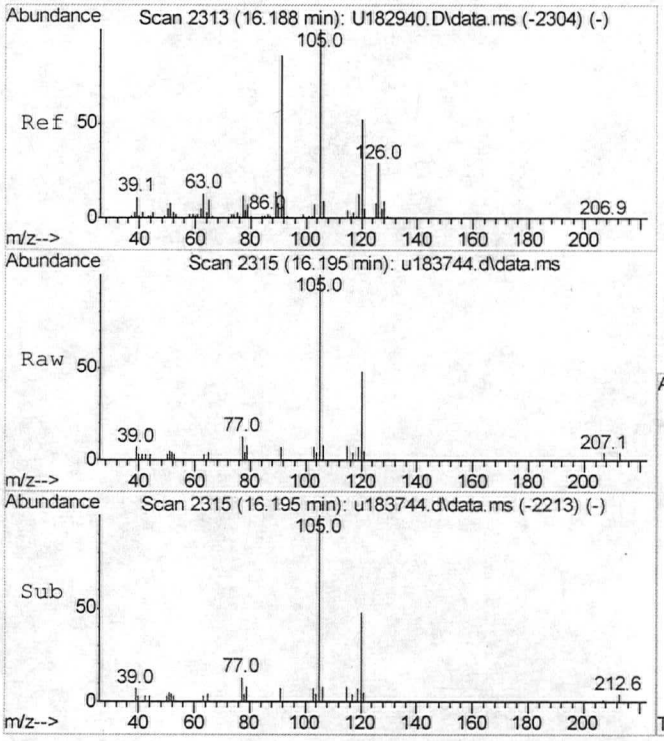


#109
o-xylene
Concen: 0.21 ug/L
RT: 15.186 min Scan# 2122
Delta R.T. -0.006 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion:106 Resp: 1004

Ion	Ratio	Lower	Upper
106	100		
91	214.5	173.5	233.5

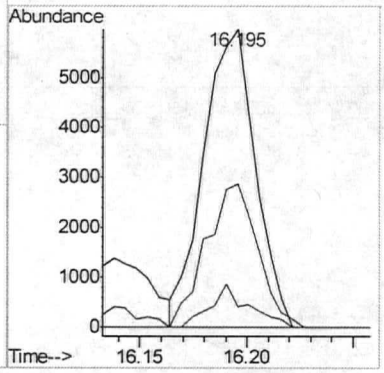


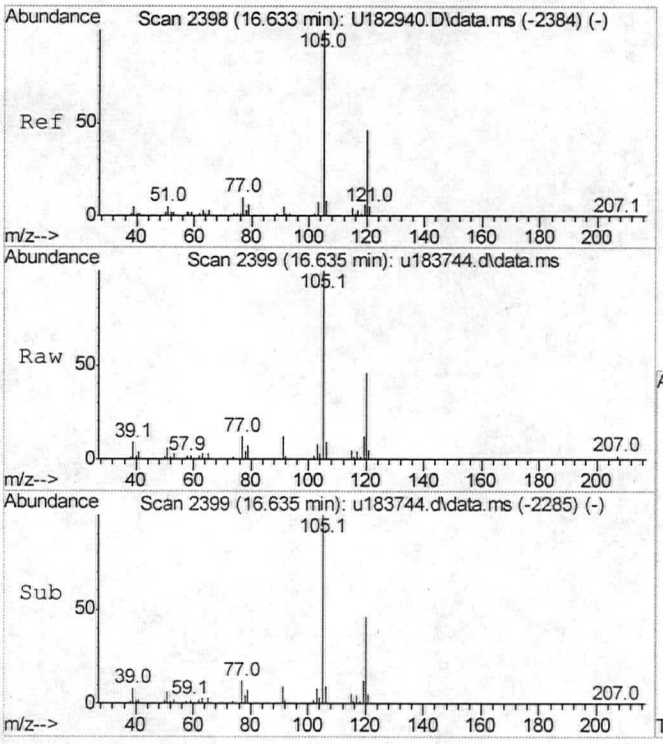


#123
1,3,5-trimethylbenzene
Concen: 0.96 ug/L
RT: 16.195 min Scan# 2315
Delta R.T. 0.004 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion:105 Resp: 9981

Ion	Ratio	Lower	Upper
105	100		
120	48.1	19.9	79.9
119	6.8	0.0	42.8

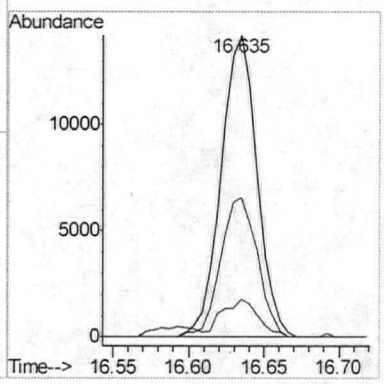




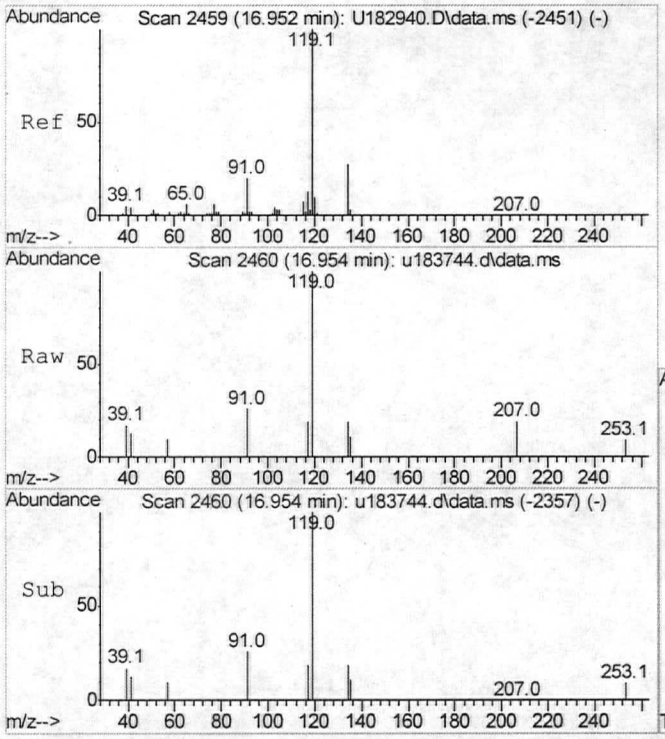
#126
1,2,4-trimethylbenzene
Concen: 2.22 ug/L
RT: 16.635 min Scan# 2399
Delta R.T. 0.004 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion:105 Resp: 23406

Ion	Ratio	Lower	Upper
105	100		
120	46.3	16.8	76.8
119	12.4	0.0	41.7



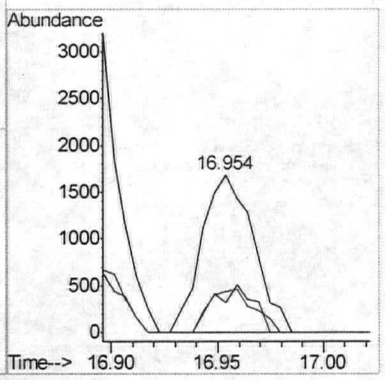
7.1.11 7



#130
p-isopropyltoluene
Concen: 0.24 ug/L
RT: 16.954 min Scan# 2460
Delta R.T. -0.001 min
Lab File: u183744.d
Acq: 10 May 2014 5:34 pm

Tgt Ion:119 Resp: 2848

Ion	Ratio	Lower	Upper
119	100		
134	18.8	0.0	56.2
91	26.4	0.0	50.8



7.1.11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183748.d
Acq On : 10 May 2014 7:31 pm
Operator : conniex
Sample : jb66517-10
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 66 Sample Multiplier: 1

Quant Time: May 12 15:49:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.063	65	131729	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	260704	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	368513	50.00	ug/L	0.00
96) chlorobenzene-d5	14.517	117	358798	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	218851	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	115229	52.71	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.42%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	131356	54.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.78%			
88) toluene-d8 (s)	12.880	98	431838	56.05	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.10%			
114) 4-bromofluorobenzene (s)	15.793	95	176313	54.70	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 109.40%			
Target Compounds						Qvalue
35) methylene chloride	8.100	84	3652	1.54	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

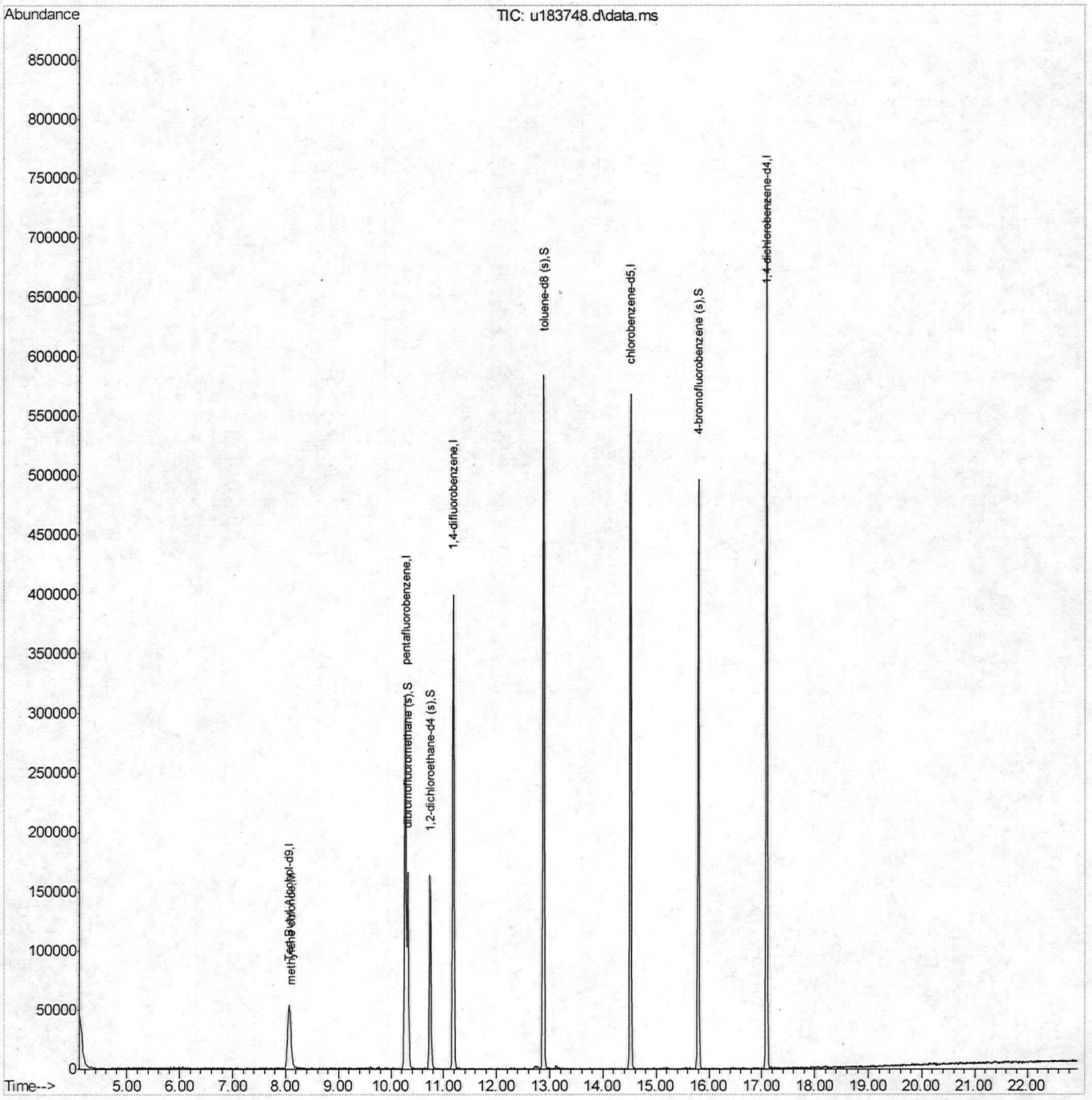
7.1.12

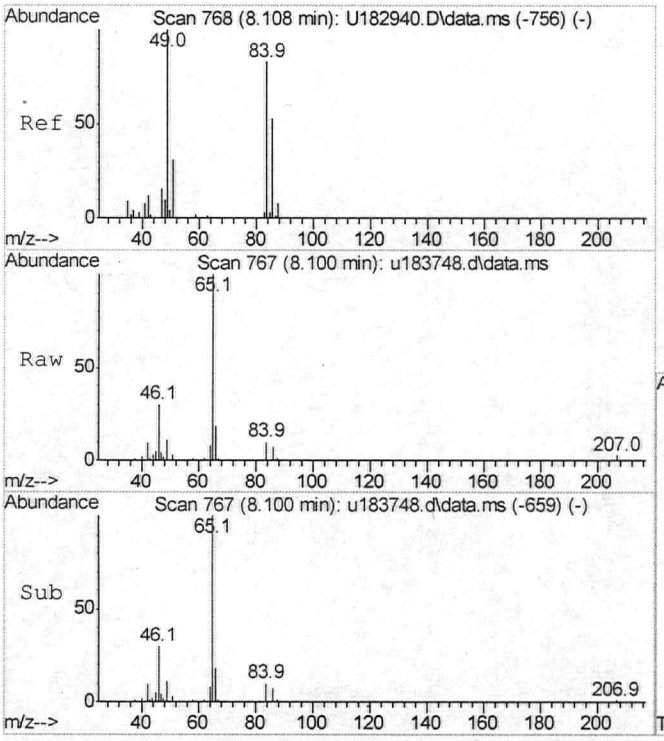
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183748.d
Acq On : 10 May 2014 7:31 pm
Operator : conniex
Sample : jb66517-10
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 66 Sample Multiplier: 1

Quant Time: May 12 15:49:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

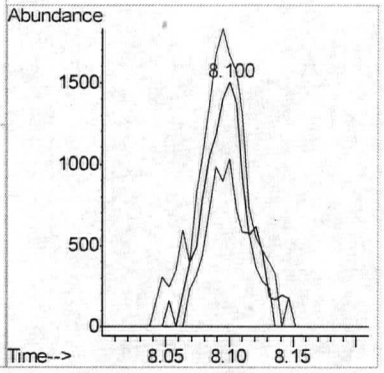




#35
methylene chloride
Concen: 1.54 ug/L
RT: 8.100 min Scan# 767
Delta R.T. 0.005 min
Lab File: u183748.d
Acq: 10 May 2014 7:31 pm

Tgt Ion: 84 Resp: 3652

Ion	Ratio	Lower	Upper
84	100		
86	68.7	30.7	90.7
49	110.8	93.6	153.6



7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183747.d
Acq On : 10 May 2014 7:02 pm
Operator : conniex
Sample : jb66517-11
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 65 Sample Multiplier: 1

Quant Time: May 12 15:48:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.063	65	125305	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	260305	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.186	114	368908	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	357519	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	222379	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.312	113	115997	53.14	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.28%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	132968	55.14	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.28%			
88) toluene-d8 (s)	12.880	98	430812	55.86	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 111.72%			
114) 4-bromofluorobenzene (s)	15.794	95	176736	53.96	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 107.92%			

Target Compounds Qvalue

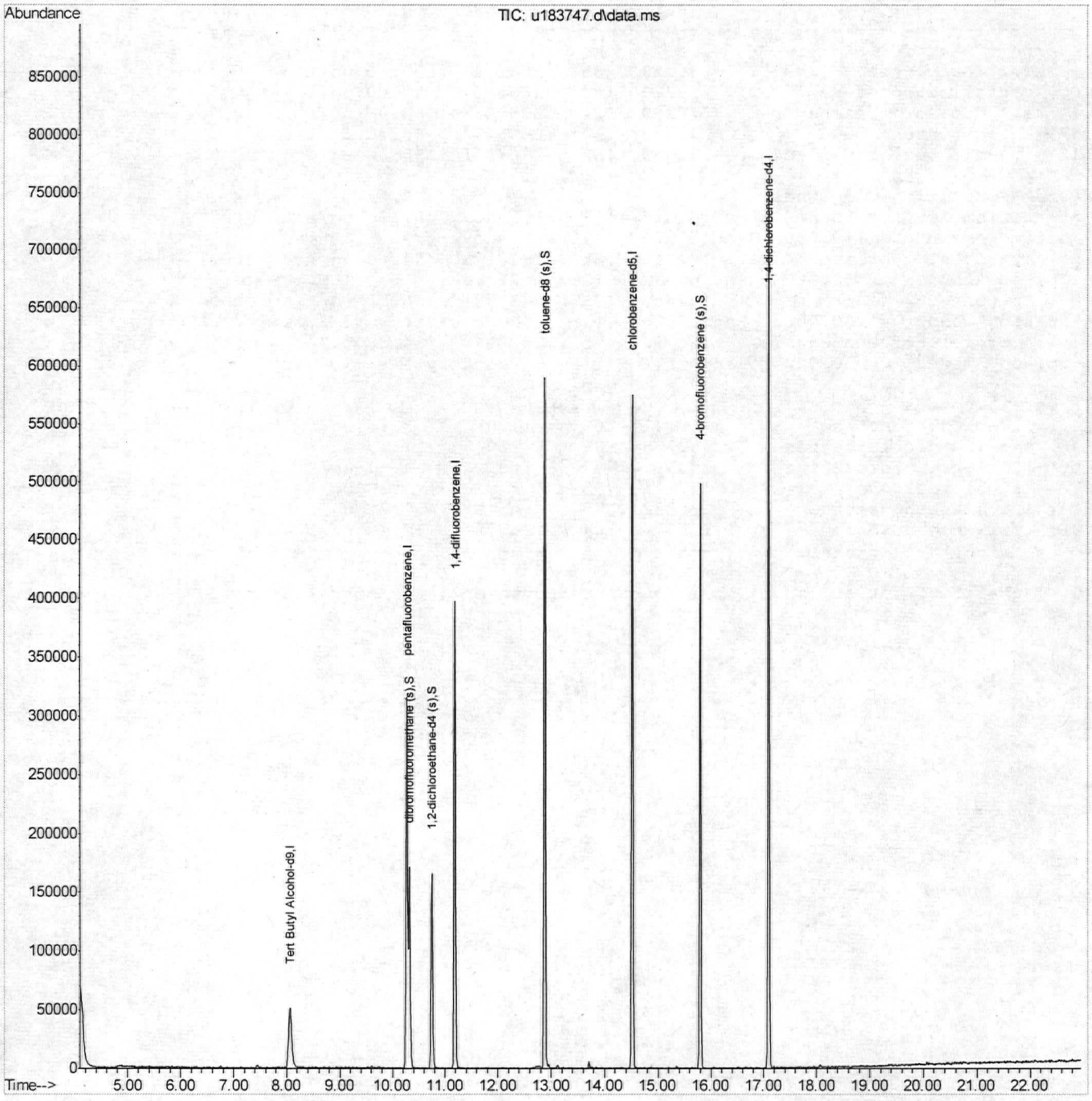
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.13 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183747.d
Acq On : 10 May 2014 7:02 pm
Operator : conniex
Sample : jb66517-11
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 65 Sample Multiplier: 1

Quant Time: May 12 15:48:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183743.d
Acq On : 10 May 2014 5:05 pm
Operator : conniex
Sample : jb66517-12
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 61 Sample Multiplier: 1

Quant Time: May 12 15:43:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.058	65	128134	500.00	ug/L	0.02
5) pentafluorobenzene	10.270	168	260576	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	375026	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	366313	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	226735	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	115586	52.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.80%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	131817	54.60	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.20%			
88) toluene-d8 (s)	12.880	98	443393	56.55	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 113.10%			
114) 4-bromofluorobenzene (s)	15.793	95	180604	54.08	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.16%			
Target Compounds						Qvalue
42) 1,1-dichloroethane	9.041	63	14608	3.65	ug/L	93
48) cis-1,2-dichloroethene	9.758	96	3108	1.19	ug/L	87
60) 1,1,1-trichloroethane	10.391	97	16972	4.57	ug/L	98
78) trichloroethene	11.525	95	3192	1.37	ug/L	80
94) 1,1,2-trichloroethane	13.382	83	545	0.31	ug/L	83
98) tetrachloroethene	13.576	164	24995	10.75	ug/L	93

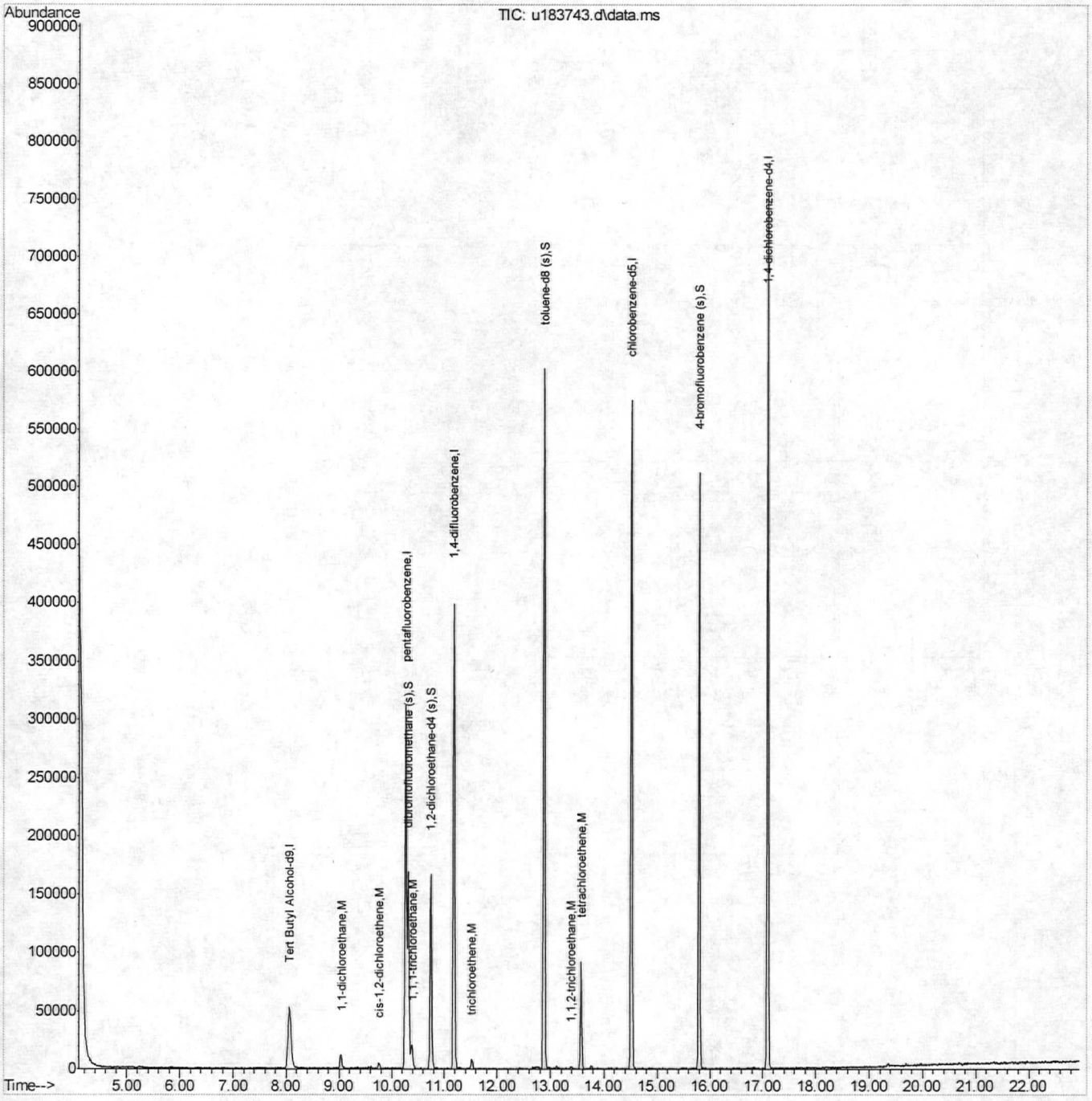
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.14

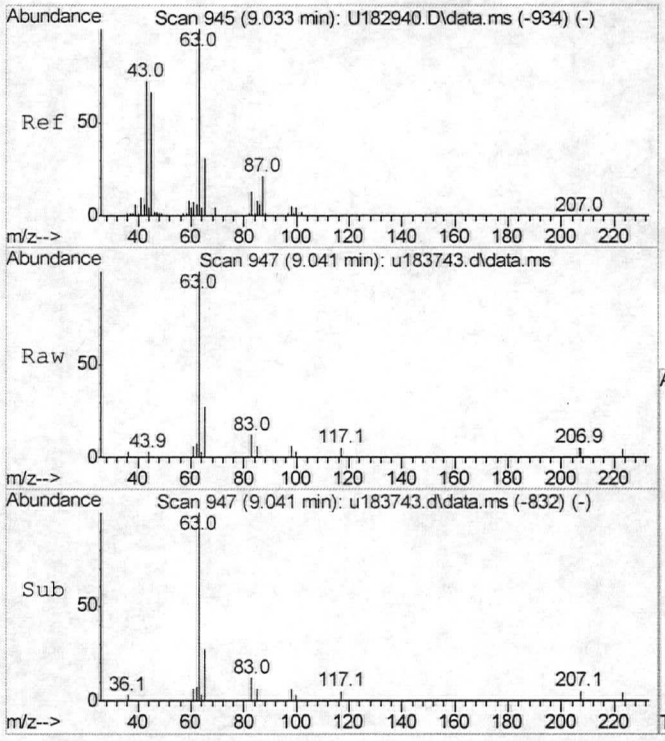
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183743.d
Acq On : 10 May 2014 5:05 pm
Operator : conniex
Sample : jb66517-12
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 61 Sample Multiplier: 1

Quant Time: May 12 15:43:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



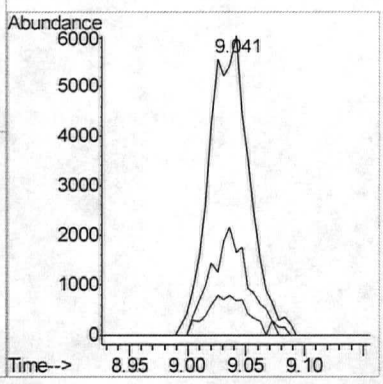
ACCUTEST LABORATORIES JB66517

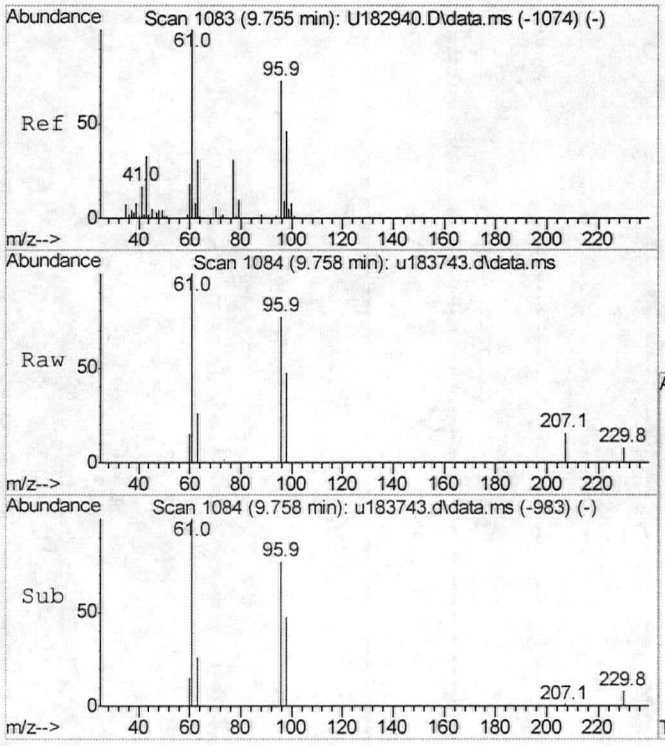


#42
1,1-dichloroethane
Concen: 3.65 ug/L
RT: 9.041 min Scan# 947
Delta R.T. 0.010 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

Tgt Ion: 63 Resp: 14608

Ion	Ratio	Lower	Upper
63	100		
65	27.2	1.7	61.7
83	11.6	0.0	43.5

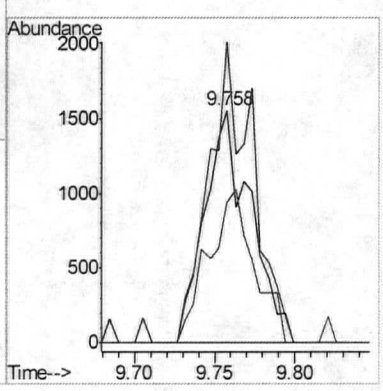




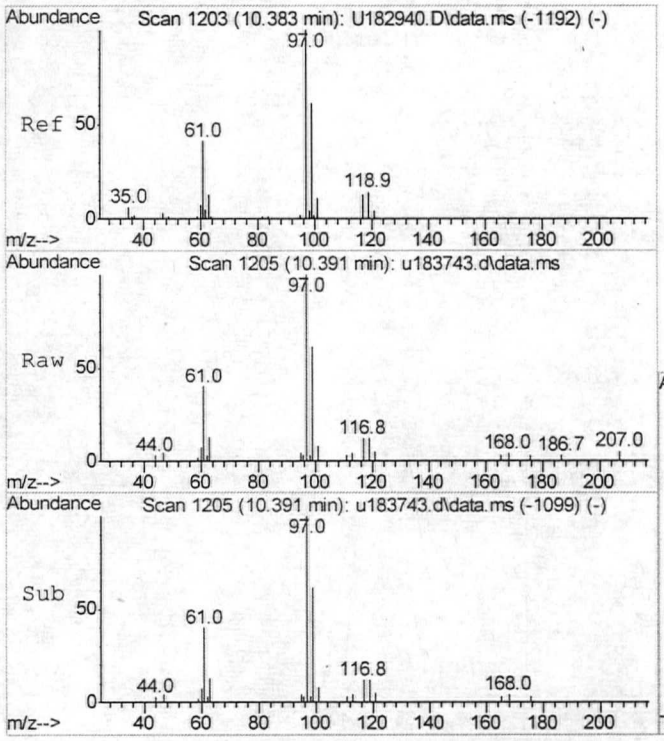
#48
cis-1,2-dichloroethene
Concen: 1.19 ug/L
RT: 9.758 min Scan# 1084
Delta R.T. -0.000 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

Tgt Ion: 96 Resp: 3108

Ion	Ratio	Lower	Upper
96	100		
61	129.1	117.8	177.8
98	60.1	36.4	96.4



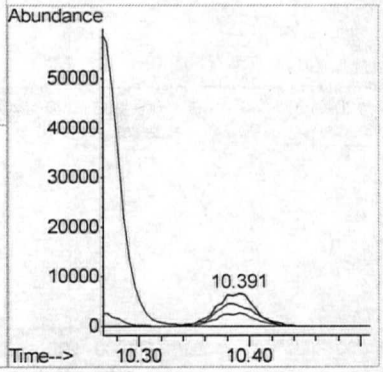
7.1.14

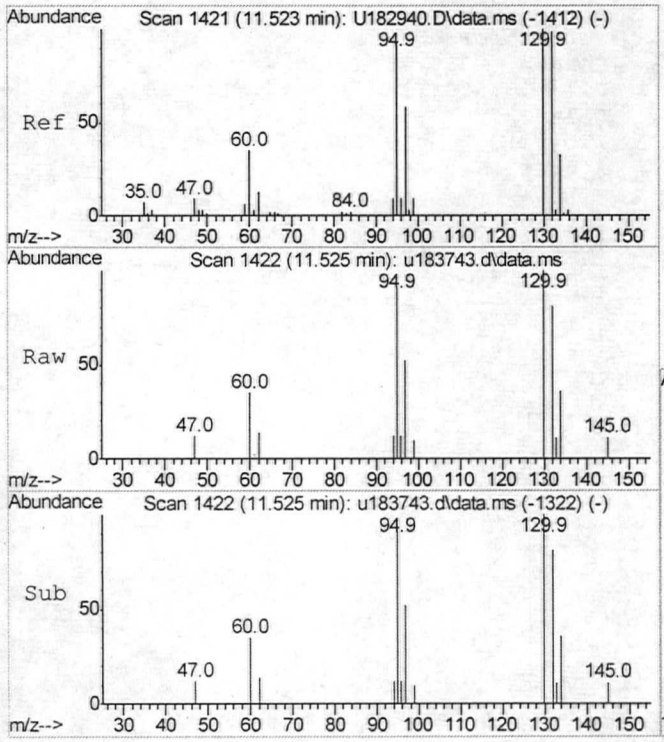


#60
1,1,1-trichloroethane
Concen: 4.57 ug/L
RT: 10.391 min Scan# 1205
Delta R.T. 0.005 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

Tgt Ion: 97 Resp: 16972

Ion	Ratio	Lower	Upper
97	100		
99	62.3	30.1	90.1
61	40.1	9.5	69.5

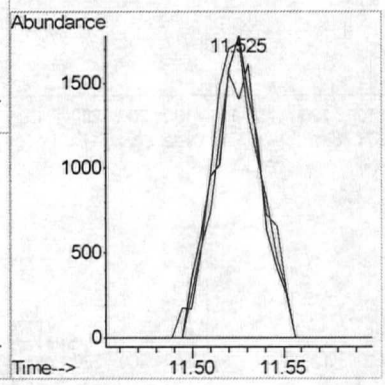




#78
trichloroethene
Concen: 1.37 ug/L
RT: 11.525 min Scan# 1422
Delta R.T. 0.005 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

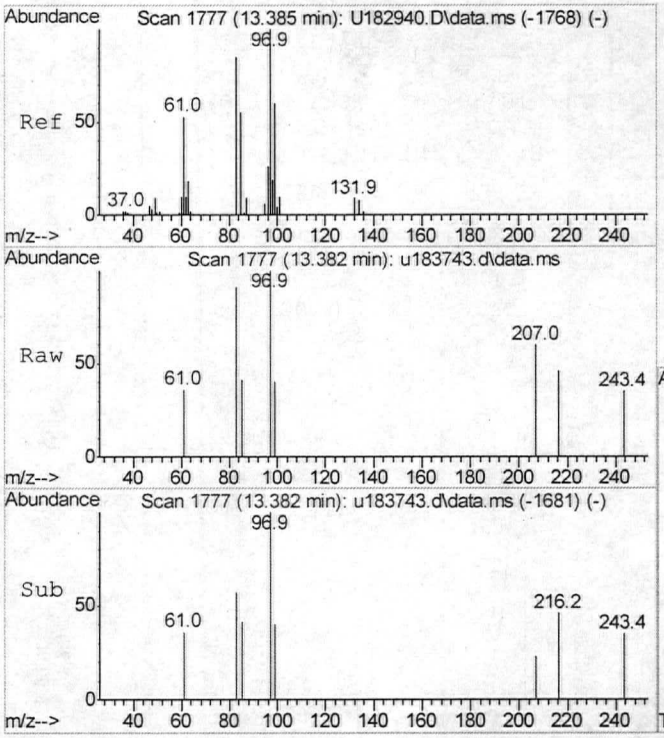
Tgt Ion: 95 Resp: 3192

Ion	Ratio	Lower	Upper
95	100		
130	97.6	81.8	141.8
132	78.8	75.7	135.7



7.1.14

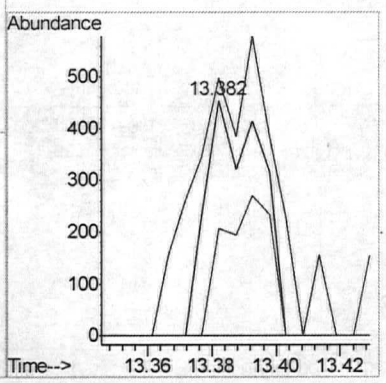
7

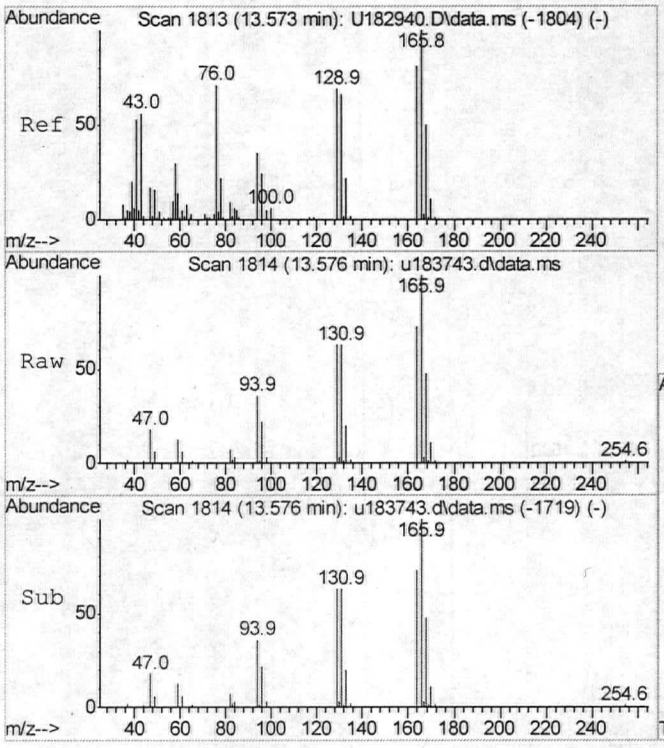


#94
1,1,2-trichloroethane
Concen: 0.31 ug/L
RT: 13.382 min Scan# 1777
Delta R.T. -0.006 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

Tgt Ion: 83 Resp: 545

Ion	Ratio	Lower	Upper
83	100		
97	109.7	92.3	152.3
85	45.5	37.6	97.6

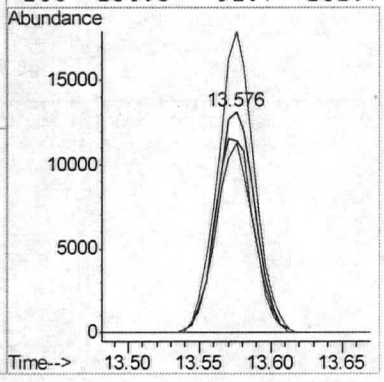




#98
tetrachloroethene
Concen: 10.75 ug/L
RT: 13.576 min Scan# 1814
Delta R.T. -0.001 min
Lab File: u183743.d
Acq: 10 May 2014 5:05 pm

Tgt Ion:164 Resp: 24995

Ion	Ratio	Lower	Upper
164	100		
129	86.7	55.7	115.7
131	86.1	52.8	112.8
166	136.5	91.7	151.7



7.1.14

ACCUTEST LABORATORIES
JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183731.d
Acq On : 10 May 2014 10:47 am
Operator : conniex
Sample : mb
Misc : ms67234,vu8478,5.0,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: May 12 15:27:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.047	65	134132	500.00	ug/L	0.00
5) pentafluorobenzene	10.265	168	268882	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	384398	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	377623	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	233164	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	117751	52.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.44%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	132529	53.20	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 106.40%			
88) toluene-d8 (s)	12.880	98	453172	56.39	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.78%			
114) 4-bromofluorobenzene (s)	15.793	95	189445	55.16	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.32%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

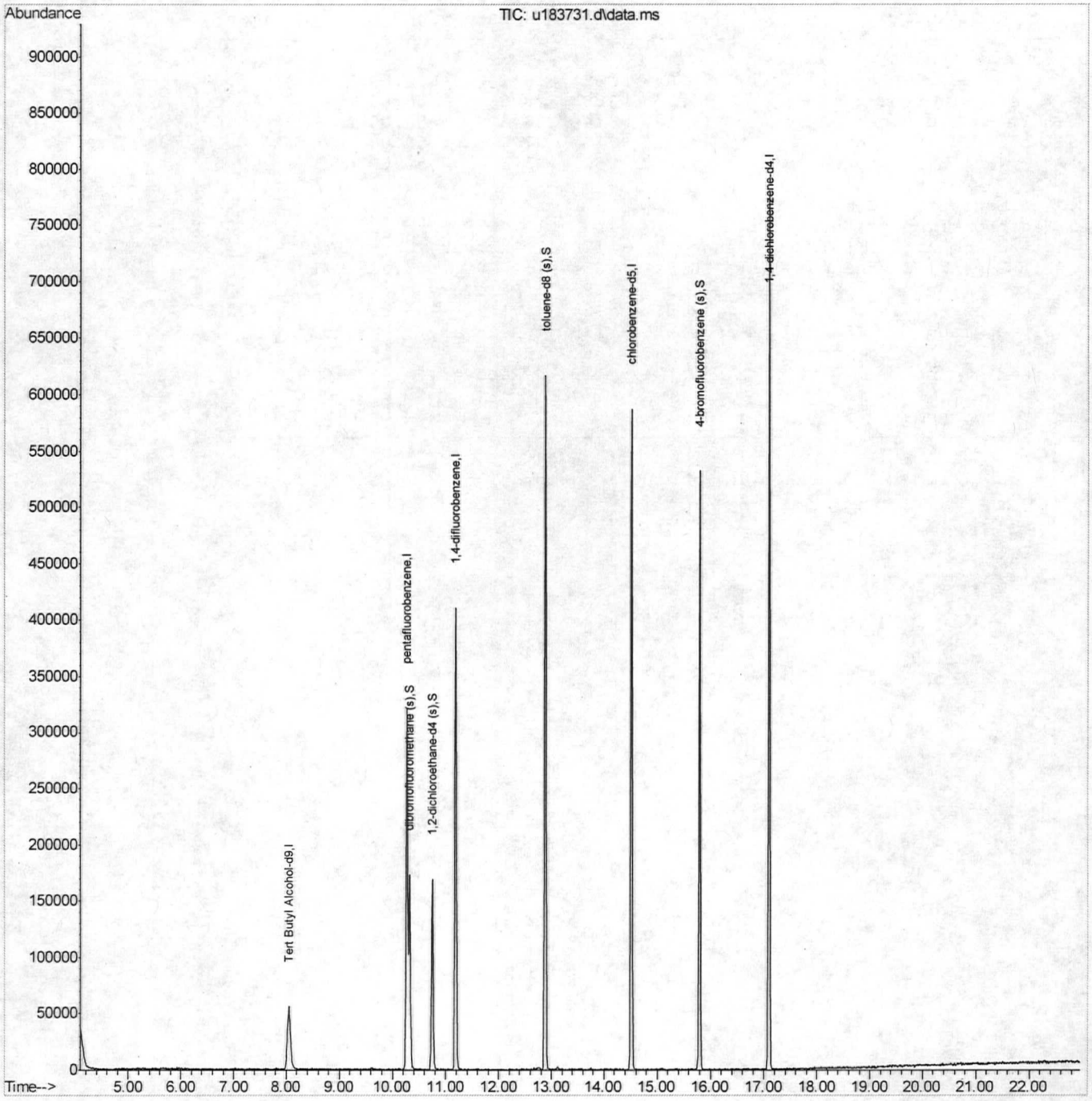
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183731.d
Acq On : 10 May 2014 10:47 am
Operator : conniex
Sample : mb
Misc : ms67234,vu8478,5.0,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Time: May 12 15:27:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183821.d
Acq On : 13 May 2014 10:24 am
Operator : conniex
Sample : mb
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 14 13:59:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.073	65	131253	500.00	ug/L	0.03
5) pentafluorobenzene	10.264	168	255141	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	363929	50.00	ug/L	0.00
96) chlorobenzene-d5	14.511	117	357470	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	229072	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.311	113	116527	54.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 108.92%			
57) 1,2-dichloroethane-d4 (s)	10.740	65	130990	55.42	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 110.84%			
88) toluene-d8 (s)	12.874	98	422922	55.58	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 111.16%			
114) 4-bromofluorobenzene (s)	15.793	95	182669	54.14	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.28%			

Target Compounds Qvalue

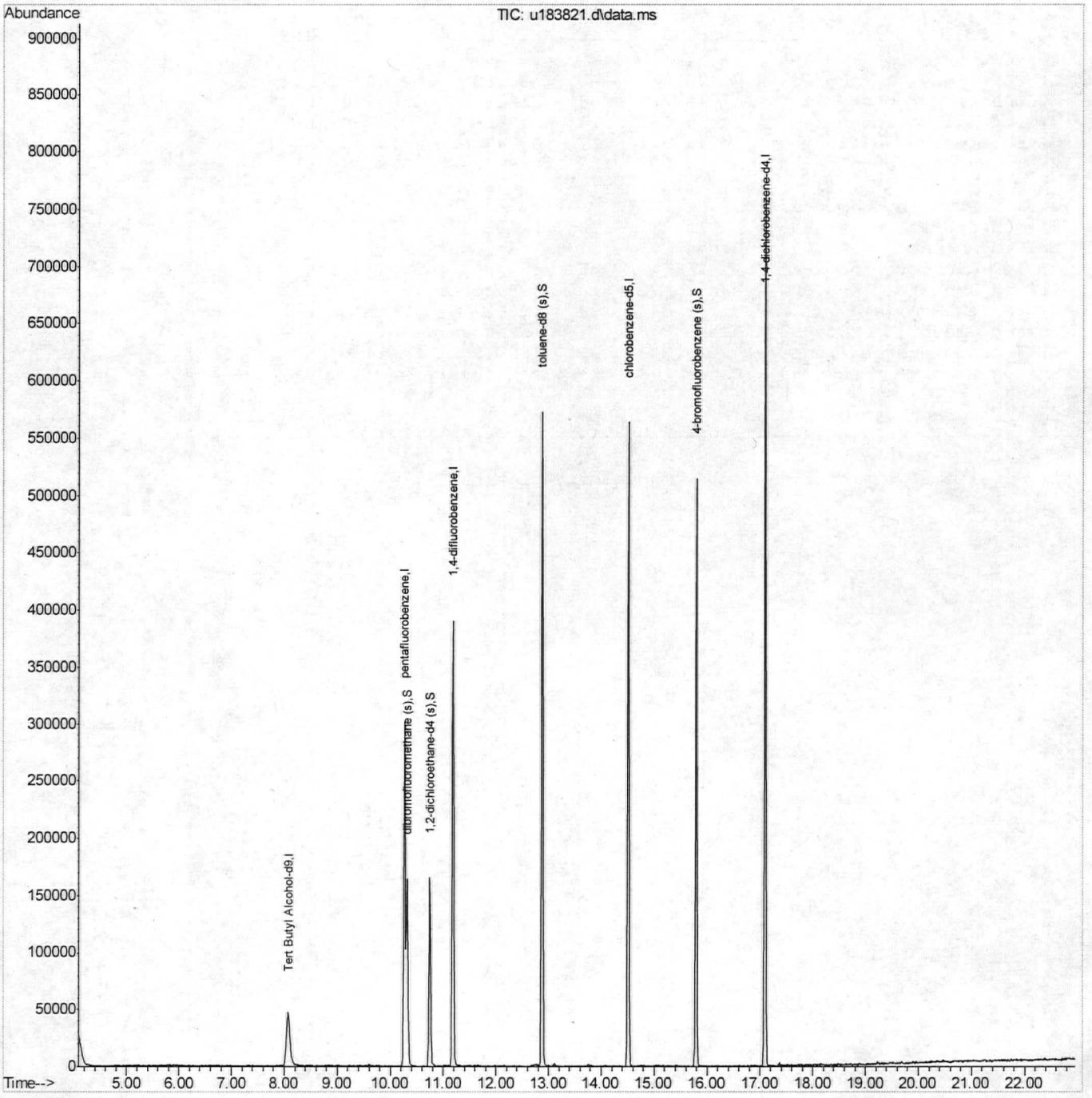
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.2 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183821.d
Acq On : 13 May 2014 10:24 am
Operator : conniex
Sample : mb
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 14 13:59:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183732.d
Acq On : 10 May 2014 11:33 am
Operator : conniex
Sample : bs
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 12 16:00:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.040	65	113239	500.00	ug/L	0.00
5) pentafluorobenzene	10.268	168	263742	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.183	114	376360	50.00	ug/L	0.00
96) chlorobenzene-d5	14.515	117	361090	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.093	152	224891	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.315	113	116092	52.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery	=	104.98%	
57) 1,2-dichloroethane-d4 (s)	10.744	65	128221	52.48	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery	=	104.96%	
88) toluene-d8 (s)	12.878	98	439614	55.87	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery	=	111.74%	
114) 4-bromofluorobenzene (s)	15.796	95	180311	54.43	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery	=	108.86%	
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.166	59	60950	250.55	ug/L #	55
4) 1,4-dioxane	11.910	88	23539	1350.64	ug/L #	97
11) chlorodifluoromethane	4.546	51	96385	44.12	ug/L	98
12) dichlorodifluoromethane	4.520	85	136417	49.38	ug/L	99
15) chloromethane	4.892	50	141346	51.35	ug/L	99
16) vinyl chloride	5.174	62	142987	50.67	ug/L	98
18) bromomethane	5.854	94	94113	51.10	ug/L	92
19) chloroethane	6.042	64	77020	63.33	ug/L	98
20) trichlorofluoromethane	6.550	101	190662	49.39	ug/L	99
23) ethyl ether	6.942	74	61449	51.57	ug/L	99
24) 2-CHLOROPROPANE	7.156	43	184239	49.51	ug/L	98
27) acrolein	7.214	56	209012	476.47	ug/L	98
28) 1,1-dichloroethene	7.381	96	104134	46.97	ug/L	97
29) acetone	7.444	58	10339	35.44	ug/L	95
30) allyl chloride	7.909	78	19975	54.99	ug/L #	79
31) acetonitrile	7.904	40	98717	597.56	ug/L	90
32) iodomethane	7.664	142	213955	50.24	ug/L	98
33) carbon disulfide	7.789	76	366542	49.38	ug/L	99
34) 1-CHLOROPROPANE	8.134	63	9182	47.47	ug/L	95
35) methylene chloride	8.098	84	115788	48.15	ug/L	95
36) methyl acetate	7.888	43	78412	45.39	ug/L	99
37) methyl tert butyl ether	8.432	73	690919	94.26	ug/L	100
38) trans-1,2-dichloroethene	8.469	96	110278	45.86	ug/L	96
39) di-isopropyl ether	9.013	45	359012	50.51	ug/L	97
40) ethyl tert-butyl ether	9.473	59	363477	49.34	ug/L	99
41) 2-butanone	9.735	72	12234	39.49	ug/L #	61
42) 1,1-dichloroethane	9.034	63	200491	49.53	ug/L	99
43) chloroprene	9.138	53	149942	47.80	ug/L	96
44) acrylonitrile	8.438	53	207354	256.78	ug/L	99
45) vinyl acetate	9.013	86	21288	51.01	ug/L #	95
46) ethyl acetate	9.740	45	14681	47.13	ug/L	86
47) 2,2-dichloropropane	9.782	77	174424	49.31	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183732.d
Acq On : 10 May 2014 11:33 am
Operator : conniex
Sample : bs
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 12 16:00:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48)	cis-1,2-dichloroethene	9.756	96	123876	46.69 ug/L	95
49)	methyl acrylate	9.824	55	122373	48.54 ug/L	99
50)	propionitrile	9.845	54	164666	503.26 ug/L	92
51)	bromochloromethane	10.064	128	64695	47.26 ug/L	98
52)	tetrahydrofuran	10.106	42	33247	44.29 ug/L	99
53)	chloroform	10.117	83	200395	44.95 ug/L	99
54)	tert-butyl Formate	10.179	59	110780	54.84 ug/L	99
55)	iso-butyl alcohol	10.551	74	14948	455.52 ug/L #	62
58)	freon 113	7.355	151	90062	52.40 ug/L	94
59)	methacrylonitrile	10.022	41	69403	47.07 ug/L	98
60)	1,1,1-trichloroethane	10.388	97	184150	49.02 ug/L	95
62)	tert-amyl methyl ether	10.854	87	85927	49.14 ug/L	98
63)	iso-octane	10.828	57	307709	43.38 ug/L	99
66)	epichlorohydrin	12.470	57	56659	227.17 ug/L	98
67)	n-butyl alcohol	11.283	56	143132	2204.10 ug/L	98
68)	Cyclohexane	10.462	84	161534	47.62 ug/L	94
69)	carbon tetrachloride	10.582	117	170202	51.05 ug/L	96
70)	1,1-dichloropropene	10.556	75	141441	47.53 ug/L	99
71)	hexane	8.767	86	19113	47.46 ug/L #	74
72)	benzene	10.823	78	431466	49.14 ug/L	100
74)	isopropyl acetate	10.734	43	200462	48.80 ug/L	99
75)	1,2-dichloroethane	10.833	62	153493	49.74 ug/L	100
78)	trichloroethene	11.523	95	112186	48.05 ug/L	97
79)	methylcyclohexane	11.764	83	178059	50.33 ug/L	100
80)	2-nitropropane	12.334	41	44240	48.46 ug/L #	93
81)	2-chloroethyl vinyl ether	12.334	63	307507	283.43 ug/L	99
82)	methyl methacrylate	11.795	100	32842	49.62 ug/L	95
83)	1,2-dichloropropane	11.806	63	111221	49.77 ug/L	98
84)	propyl acetate	11.837	73	21523	48.06 ug/L	96
85)	dibromomethane	11.958	93	70749	47.24 ug/L	96
86)	bromodichloromethane	12.083	83	159554	47.65 ug/L	99
87)	cis-1,3-dichloropropene	12.564	75	185406	47.92 ug/L	98
89)	4-methyl-2-pentanone	12.674	58	42817	45.99 ug/L	100
90)	toluene	12.956	92	278799	49.03 ug/L	98
91)	3-methyl-1-butanol	12.669	55	88209	832.25 ug/L	99
92)	trans-1,3-dichloropropene	13.150	75	174804	46.03 ug/L	96
93)	ethyl methacrylate	13.145	69	146014	47.92 ug/L	99
94)	1,1,2-trichloroethane	13.385	83	86667	48.52 ug/L	98
95)	2-hexanone	13.584	58	39790	42.40 ug/L	87
97)	cyclohexanone	15.775	55	31304	85.68 ug/L	98
98)	tetrachloroethene	13.574	164	106579	46.51 ug/L	94
99)	1,3-dichloropropane	13.589	76	175545	48.89 ug/L	99
100)	butyl acetate	13.652	56	71638	48.82 ug/L	94
101)	dibromochloromethane	13.867	129	135904	48.67 ug/L	96
102)	1,2-dibromoethane	14.044	107	113333	47.97 ug/L	99
103)	3,3-dimethyl-1-Butanol	13.751	57	85871	434.81 ug/L	99
105)	chlorobenzene	14.546	112	336680	47.98 ug/L	99
106)	1,1,1,2-tetrachloroethane	14.609	131	134312	49.15 ug/L	97
107)	ethylbenzene	14.609	91	553707	49.09 ug/L	100
108)	m,p-xylene	14.724	106	436360	99.00 ug/L	96

7.3.1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183732.d
Acq On : 10 May 2014 11:33 am
Operator : conniex
Sample : bs
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 12 16:00:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) o-xylene	15.190	106	217242	47.42 ug/L	93
110) styrene	15.200	104	373598	51.19 ug/L	99
111) bromoform	15.488	173	104258	48.01 ug/L	99
113) isopropylbenzene	15.572	105	582912	49.15 ug/L	99
115) bromobenzene	16.016	156	167065	49.24 ug/L	98
116) 1,1,2,2-tetrachloroethane	15.901	83	150049	44.48 ug/L	100
117) trans-1,4-dichloro-2-b...	15.953	53	37669	42.60 ug/L	95
118) 1,2,3-trichloropropane	15.990	110	43499	46.92 ug/L	95
119) n-propylbenzene	16.027	91	669821	51.48 ug/L	100
120) 2-chlorotoluene	16.189	126	147139	49.01 ug/L	99
121) 4-chlorotoluene	16.304	91	425560	48.93 ug/L	99
123) 1,3,5-trimethylbenzene	16.194	105	508714	49.36 ug/L	99
124) tert-butylbenzene	16.586	119	463454	49.59 ug/L	99
125) pentachloroethane	16.670	167	114626	54.32 ug/L	95
126) 1,2,4-trimethylbenzene	16.633	105	536324	51.35 ug/L	98
128) sec-butylbenzene	16.827	105	648054	48.49 ug/L	99
129) 1,3-dichlorobenzene	17.031	146	320990	46.90 ug/L	98
130) p-isopropyltoluene	16.958	119	580718	48.70 ug/L	99
131) 1,4-dichlorobenzene	17.120	146	326804	46.39 ug/L	98
132) benzyl chloride	17.250	91	322531	47.95 ug/L	98
133) 1,2-dichlorobenzene	17.559	146	318941	46.93 ug/L	99
135) n-butylbenzene	17.413	92	275067	47.57 ug/L	100
137) 1,2-dibromo-3-chloropr...	18.417	157	40097	48.94 ug/L	96
138) 1,3,5-trichlorobenzene	18.621	180	279930	50.30 ug/L	100
139) 1,2,4-trichlorobenzene	19.358	180	239910	48.83 ug/L	99
140) hexachlorobutadiene	19.489	225	114224	42.27 ug/L	97
141) naphthalene	19.688	128	482853	46.81 ug/L	100
143) 1,2,3-trichlorobenzene	19.965	180	202032	48.02 ug/L	100
144) hexachloroethane	17.847	201	108427	50.94 ug/L	99

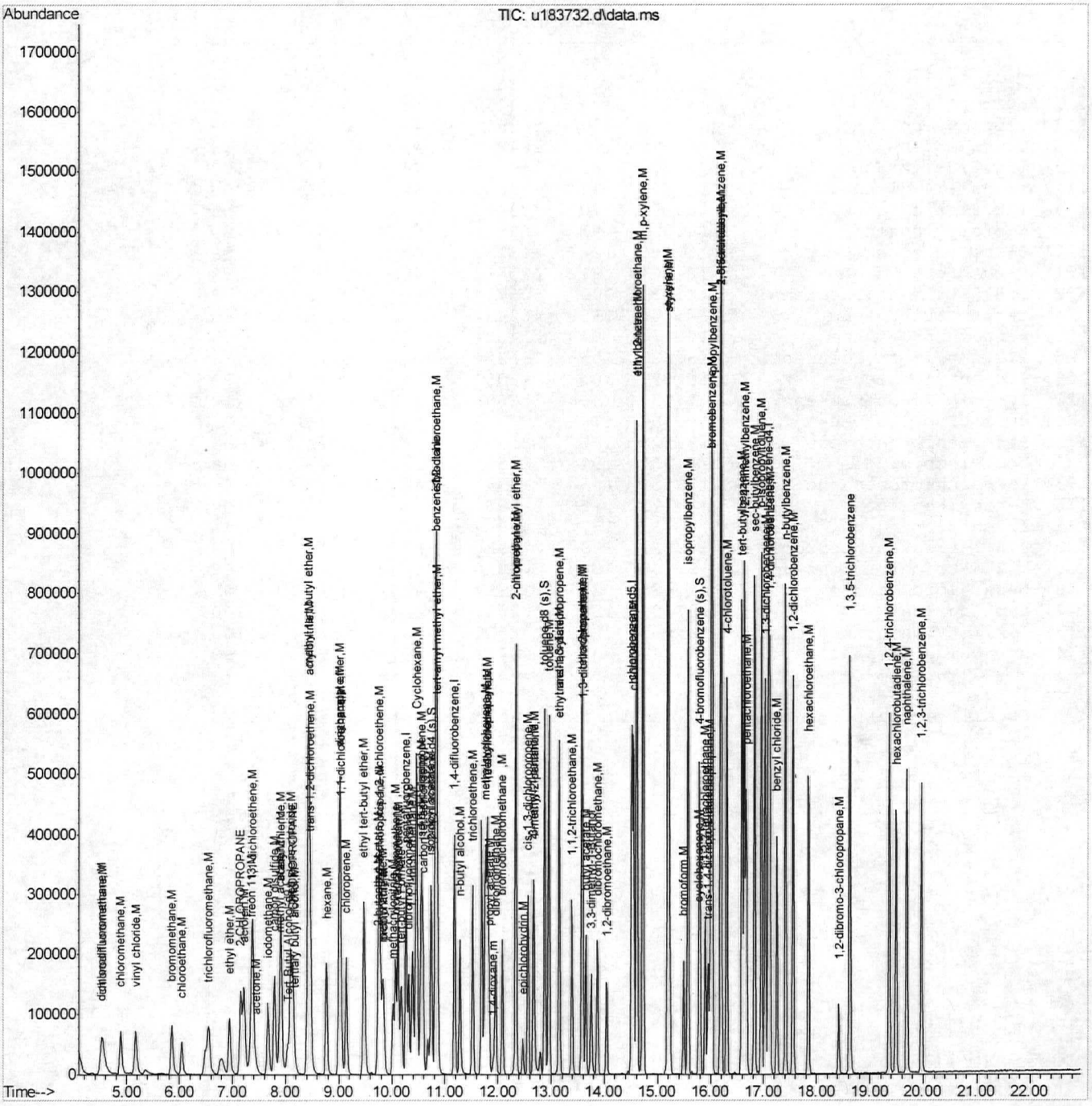
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183732.d
Acq On : 10 May 2014 11:33 am
Operator : conniex
Sample : bs
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Time: May 12 16:00:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

7.3.1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183822.d
Acq On : 13 May 2014 11:01 am
Operator : conniex
Sample : bs
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 13:59:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.069	65	120814	500.00	ug/L	0.03
5) pentafluorobenzene	10.266	168	254641	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.181	114	361900	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	350412	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	215930	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.313	113	113366	53.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 106.18%			
57) 1,2-dichloroethane-d4 (s)	10.742	65	128720	54.56	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.12%			
88) toluene-d8 (s)	12.875	98	421143	55.66	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 111.32%			
114) 4-bromofluorobenzene (s)	15.789	95	172524	54.25	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.50%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.168	59	62190	239.62	ug/L #	44
4) 1,4-dioxane	11.924	88	26016	1399.88	ug/L #	95
11) chlorodifluoromethane	4.539	51	88508	41.96	ug/L	96
12) dichlorodifluoromethane	4.523	85	105660	39.62	ug/L	94
15) chloromethane	4.884	50	116570	43.86	ug/L	98
16) vinyl chloride	5.166	62	120615	44.27	ug/L	99
18) bromomethane	5.857	94	79316	44.60	ug/L	96
19) chloroethane	6.040	64	63687	54.24	ug/L	96
20) trichlorofluoromethane	6.547	101	170226	45.67	ug/L	92
23) ethyl ether	6.939	74	57357	49.85	ug/L	96
24) 2-CHLOROPROPANE	7.154	43	175804	48.93	ug/L	99
27) acrolein	7.222	56	219286	517.76	ug/L	98
28) 1,1-dichloroethene	7.379	96	99918	46.68	ug/L	96
29) acetone	7.452	58	10106	35.88	ug/L	95
30) allyl chloride	7.907	78	19424	55.39	ug/L	86
31) acetonitrile	7.907	40	89511	561.20	ug/L #	64
32) iodomethane	7.661	142	203525	49.49	ug/L	99
33) carbon disulfide	7.787	76	348954	48.69	ug/L	100
34) 1-CHLOROPROPANE	8.132	63	8711	46.65	ug/L	98
35) methylene chloride	8.095	84	111321	47.95	ug/L	99
36) methyl acetate	7.891	43	70920	42.52	ug/L	99
37) methyl tert butyl ether	8.430	73	646717	91.39	ug/L	100
38) trans-1,2-dichloroethene	8.461	96	106318	45.80	ug/L	97
39) di-isopropyl ether	9.010	45	325463	47.43	ug/L	96
40) ethyl tert-butyl ether	9.476	59	327384	46.03	ug/L	97
41) 2-butanone	9.732	72	12864	43.01	ug/L #	79
42) 1,1-dichloroethane	9.031	63	192670	49.30	ug/L	98
43) chloroprene	9.136	53	133645	44.12	ug/L	96
44) acrylonitrile	8.430	53	200160	256.73	ug/L	99
45) vinyl acetate	9.010	86	19725	48.95	ug/L	99
46) ethyl acetate	9.743	45	13521	44.96	ug/L	87
47) 2,2-dichloropropane	9.779	77	181112	53.03	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183822.d
Acq On : 13 May 2014 11:01 am
Operator : conniex
Sample : bs
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 13:59:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48)	cis-1,2-dichloroethene	9.758	96	117611	45.91 ug/L	94
49)	methyl acrylate	9.821	55	118573	48.71 ug/L	96
50)	propionitrile	9.842	54	166699	527.68 ug/L	90
51)	bromochloromethane	10.067	128	62016	46.92 ug/L	98
52)	tetrahydrofuran	10.103	42	38605	53.27 ug/L	91
53)	chloroform	10.114	83	192865	44.80 ug/L	98
54)	tert-butyl Formate	10.171	59	100573	51.57 ug/L	100
55)	iso-butyl alcohol	10.548	74	15140	477.87 ug/L #	12
58)	freon 113	7.352	151	85076	51.26 ug/L	95
59)	methacrylonitrile	10.020	41	66424	46.66 ug/L	92
60)	1,1,1-trichloroethane	10.386	97	176738	48.73 ug/L	94
62)	tert-amyl methyl ether	10.857	87	78767	46.65 ug/L	93
63)	iso-octane	10.825	57	292711	42.74 ug/L	99
66)	epichlorohydrin	12.467	57	56244	234.52 ug/L	98
67)	n-butyl alcohol	11.291	56	155058	2483.16 ug/L	97
68)	Cyclohexane	10.459	84	158265	48.52 ug/L	89
69)	carbon tetrachloride	10.579	117	164079	51.18 ug/L	96
70)	1,1-dichloropropene	10.553	75	136064	47.55 ug/L	99
71)	hexane	8.765	86	21924	56.62 ug/L #	82
72)	benzene	10.820	78	406469	48.14 ug/L	99
74)	isopropyl acetate	10.731	43	200722	50.81 ug/L	97
75)	1,2-dichloroethane	10.830	62	147083	49.56 ug/L	99
78)	trichloroethene	11.521	95	108758	48.44 ug/L	97
79)	methylcyclohexane	11.761	83	153622	45.16 ug/L	99
80)	2-nitropropane	12.332	41	43072	49.06 ug/L #	89
81)	2-chloroethyl vinyl ether	12.332	63	270883	259.65 ug/L	99
82)	methyl methacrylate	11.793	100	31138	48.93 ug/L	93
83)	1,2-dichloropropane	11.803	63	105443	49.07 ug/L	98
84)	propyl acetate	11.829	73	20739	48.16 ug/L	90
85)	dibromomethane	11.950	93	69017	47.93 ug/L	96
86)	bromodichloromethane	12.080	83	154051	47.85 ug/L	99
87)	cis-1,3-dichloropropene	12.562	75	180714	48.58 ug/L	97
89)	4-methyl-2-pentanone	12.677	58	42299	47.25 ug/L	96
90)	toluene	12.954	92	261504	47.83 ug/L	98
91)	3-methyl-1-butanol	12.666	55	93230	914.77 ug/L	99
92)	trans-1,3-dichloropropene	13.153	75	170427	46.67 ug/L	95
93)	ethyl methacrylate	13.147	69	137974	47.09 ug/L	97
94)	1,1,2-trichloroethane	13.388	83	82685	48.14 ug/L	95
95)	2-hexanone	13.582	58	39046	43.27 ug/L	97
97)	cyclohexanone	15.768	55	33605	94.78 ug/L	97
98)	tetrachloroethene	13.571	164	100863	45.35 ug/L	94
99)	1,3-dichloropropane	13.587	76	164255	47.14 ug/L	99
100)	butyl acetate	13.650	56	65145	45.75 ug/L	99
101)	dibromochloromethane	13.864	129	129762	47.89 ug/L	96
102)	1,2-dibromoethane	14.042	107	109479	47.75 ug/L	97
103)	3,3-dimethyl-1-Butanol	13.749	57	88039	459.37 ug/L	99
105)	chlorobenzene	14.544	112	319254	46.88 ug/L	99
106)	1,1,1,2-tetrachloroethane	14.612	131	127763	48.17 ug/L	99
107)	ethylbenzene	14.607	91	525659	48.02 ug/L	99
108)	m,p-xylene	14.722	106	412258	96.38 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183822.d
Acq On : 13 May 2014 11:01 am
Operator : conniex
Sample : bs
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 13:59:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
109) o-xylene	15.187	106	205688	46.27 ug/L	95
110) styrene	15.198	104	355563	50.20 ug/L	99
111) bromoform	15.485	173	99657	47.29 ug/L	98
113) isopropylbenzene	15.569	105	561633	49.32 ug/L	100
115) bromobenzene	16.014	156	156516	48.05 ug/L	95
116) 1,1,2,2-tetrachloroethane	15.898	83	144097	44.49 ug/L	100
117) trans-1,4-dichloro-2-b...	15.951	53	38438	45.28 ug/L	96
118) 1,2,3-trichloropropane	15.987	110	42256	47.47 ug/L	98
119) n-propylbenzene	16.024	91	645133	51.64 ug/L	100
120) 2-chlorotoluene	16.191	126	139794	48.50 ug/L	99
121) 4-chlorotoluene	16.301	91	403302	48.30 ug/L	98
123) 1,3,5-trimethylbenzene	16.191	105	484109	48.92 ug/L	98
124) tert-butylbenzene	16.589	119	439321	48.96 ug/L	100
125) pentachloroethane	16.667	167	109922	54.26 ug/L	98
126) 1,2,4-trimethylbenzene	16.631	105	507497	50.60 ug/L	99
128) sec-butylbenzene	16.824	105	619698	48.29 ug/L	99
129) 1,3-dichlorobenzene	17.028	146	303652	46.21 ug/L	98
130) p-isopropyltoluene	16.955	119	558907	48.82 ug/L	100
131) 1,4-dichlorobenzene	17.117	146	312842	46.25 ug/L	98
132) benzyl chloride	17.248	91	351479	54.42 ug/L	99
133) 1,2-dichlorobenzene	17.556	146	302683	46.38 ug/L	97
135) n-butylbenzene	17.410	92	269942	48.62 ug/L	98
137) 1,2-dibromo-3-chloropr...	18.419	157	39631	50.38 ug/L	97
138) 1,3,5-trichlorobenzene	18.618	180	273059	51.10 ug/L	100
139) 1,2,4-trichlorobenzene	19.356	180	234201	49.65 ug/L	99
140) hexachlorobutadiene	19.486	225	113332	43.68 ug/L	99
141) naphthalene	19.685	128	470273	47.48 ug/L	100
143) 1,2,3-trichlorobenzene	19.962	180	194926	48.25 ug/L	97
144) hexachloroethane	17.844	201	102980	50.39 ug/L	99

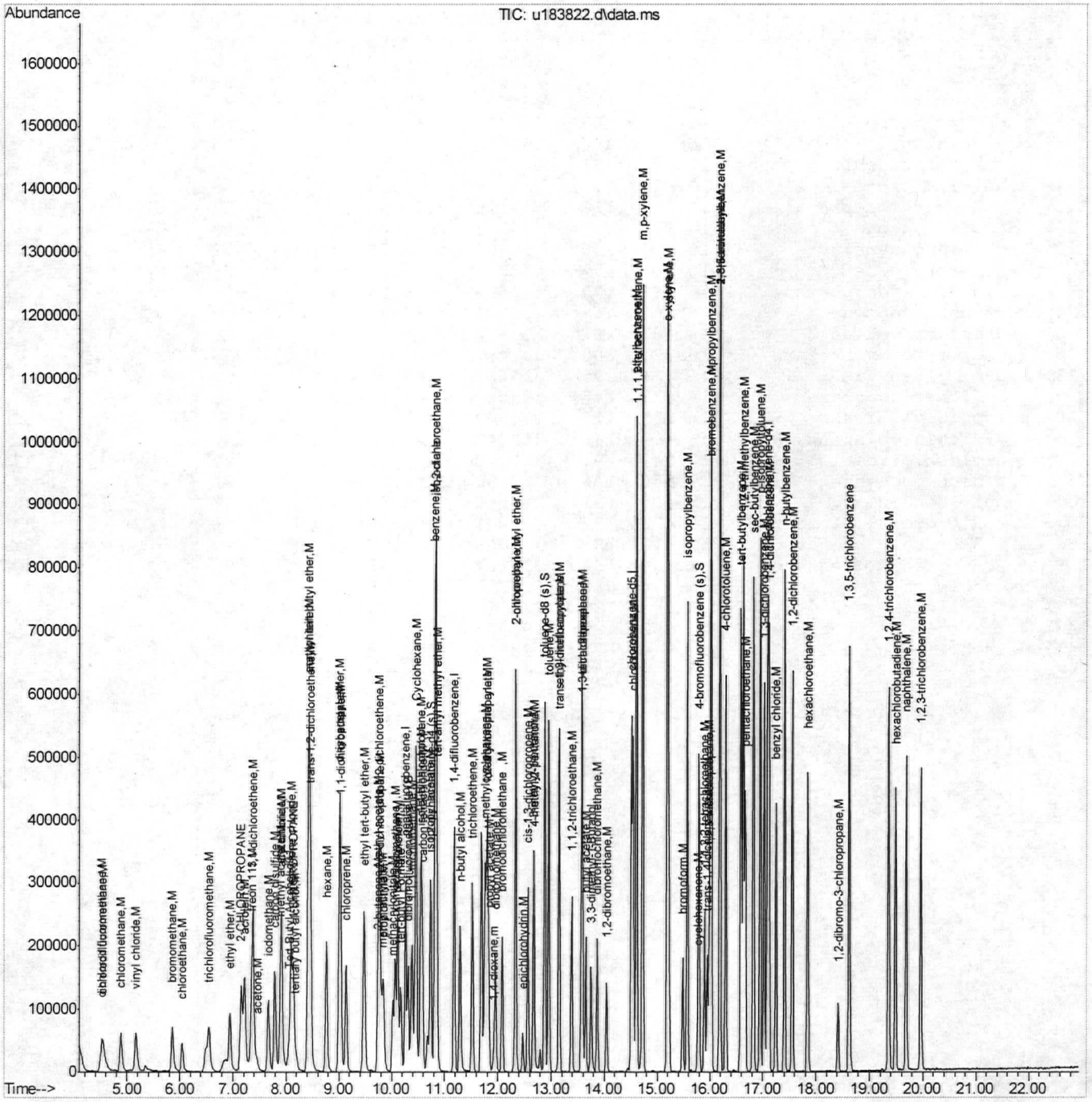
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.2 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183822.d
Acq On : 13 May 2014 11:01 am
Operator : conniex
Sample : bs
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 13:59:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

7.3.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183738.d
Acq On : 10 May 2014 2:38 pm
Operator : conniex
Sample : jb66517-8ms
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: May 10 15:02:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.047	65	152888	500.00	ug/L	0.00
5) pentafluorobenzene	10.265	168	254574	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.185	114	366822	50.00	ug/L	0.00
96) chlorobenzene-d5	14.517	117	359145	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	222491	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.317	113	115322	54.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 108.04%			
57) 1,2-dichloroethane-d4 (s)	10.746	65	128109	54.32	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.64%			
88) toluene-d8 (s)	12.880	98	431787	56.30	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.60%			
114) 4-bromofluorobenzene (s)	15.793	95	177150	54.06	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.12%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.162	59	82415	250.93	ug/L #	58
4) 1,4-dioxane	11.912	88	26834	1137.35	ug/L #	99
11) chlorodifluoromethane	4.553	51	84863	40.24	ug/L	99
12) dichlorodifluoromethane	4.522	85	109633	41.12	ug/L	95
15) chloromethane	4.893	50	112751	42.44	ug/L	99
16) vinyl chloride	5.176	62	111356	40.88	ug/L	98
18) bromomethane	5.861	94	80319	45.18	ug/L	96
19) chloroethane	6.044	64	50869	43.33	ug/L	96
20) trichlorofluoromethane	6.551	101	156147	41.90	ug/L	97
23) ethyl ether	6.949	74	53869	46.83	ug/L	93
24) 2-CHLOROPROPANE	7.158	43	142946	39.80	ug/L	97
27) acrolein	7.221	56	234698	554.30	ug/L	98
28) 1,1-dichloroethene	7.383	96	79656	37.22	ug/L	98
29) acetone	7.435	58	10747	38.17	ug/L	92
30) allyl chloride	7.911	78	14433	41.17	ug/L #	75
31) acetonitrile	7.906	40	92519	580.21	ug/L	90
32) iodomethane	7.670	142	175513	42.69	ug/L	99
33) carbon disulfide	7.791	76	264218	36.88	ug/L	100
34) 1-CHLOROPROPANE	8.136	63	7237	38.76	ug/L	81
35) methylene chloride	8.099	84	102161	44.02	ug/L	99
36) methyl acetate	7.890	43	88901	53.32	ug/L	98
37) methyl tert butyl ether	8.434	73	339080	47.93	ug/L	99
38) trans-1,2-dichloroethene	8.465	96	92301	39.77	ug/L	99
39) di-isopropyl ether	9.015	45	313734	45.73	ug/L	94
40) ethyl tert-butyl ether	9.480	59	334722	47.07	ug/L	99
41) 2-butanone	9.731	72	14009	46.85	ug/L #	68
42) 1,1-dichloroethane	9.035	63	179879	46.04	ug/L	99
43) chloroprene	9.140	53	124834	41.23	ug/L	96
44) acrylonitrile	8.434	53	214469	275.15	ug/L	97
45) vinyl acetate	9.020	86	19332	47.99	ug/L #	86
46) ethyl acetate	9.736	45	15892	52.86	ug/L	75
47) 2,2-dichloropropane	9.778	77	154335	45.20	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183738.d
Acq On : 10 May 2014 2:38 pm
Operator : conniex
Sample : jb66517-8ms
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: May 10 15:02:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.757	96	106250	41.48	ug/L		98
49)	methyl acrylate	9.825	55	126371	51.93	ug/L		95
50)	propionitrile	9.841	54	175006	554.13	ug/L		92
51)	bromochloromethane	10.071	128	58433	44.22	ug/L		98
52)	tetrahydrofuran	10.108	42	40396	55.76	ug/L		94
53)	chloroform	10.118	83	170828	39.70	ug/L		97
54)	tert-butyl Formate	10.176	59	76465	39.22	ug/L		99
55)	iso-butyl alcohol	10.547	74	14249	449.86	ug/L	#	1
58)	freon 113	7.357	151	70790	42.67	ug/L		96
59)	methacrylonitrile	10.024	41	70504	49.54	ug/L		96
60)	1,1,1-trichloroethane	10.390	97	162269	44.75	ug/L		93
62)	tert-amyl methyl ether	10.856	87	83907	49.71	ug/L		96
63)	iso-octane	10.829	57	246294	35.97	ug/L		96
66)	epichlorohydrin	12.466	57	63235	260.13	ug/L		96
67)	n-butyl alcohol	11.284	56	201885	3189.68	ug/L		99
68)	Cyclohexane	10.463	84	125471	37.95	ug/L		93
69)	carbon tetrachloride	10.584	117	135582	41.73	ug/L		97
70)	1,1-dichloropropene	10.552	75	117966	40.67	ug/L		98
71)	hexane	8.764	86	13925	35.48	ug/L	#	84
72)	benzene	10.824	78	355075	41.49	ug/L		97
73)	heptane	10.981	57	46722	35.11	ug/L		96
74)	isopropyl acetate	10.735	43	211707	52.87	ug/L		99
75)	1,2-dichloroethane	10.835	62	138868	46.17	ug/L		99
78)	trichloroethene	11.525	95	94872	41.69	ug/L		99
79)	methylcyclohexane	11.760	83	131800	38.22	ug/L		96
80)	2-nitropropane	12.330	41	33086	37.18	ug/L	#	1
81)	2-chloroethyl vinyl ether	12.466	63	2513	2.38	ug/L		67
82)	methyl methacrylate	11.792	100	32075	49.72	ug/L		98
83)	1,2-dichloropropane	11.807	63	95132	43.68	ug/L		99
84)	propyl acetate	11.834	73	22749	52.12	ug/L		95
85)	dibromomethane	11.959	93	67221	46.05	ug/L		98
86)	bromodichloromethane	12.085	83	140436	43.03	ug/L		100
87)	cis-1,3-dichloropropene	12.566	75	174580	46.30	ug/L		97
89)	4-methyl-2-pentanone	12.676	58	50069	55.18	ug/L	#	86
90)	toluene	12.958	92	235749	42.54	ug/L		99
91)	3-methyl-1-butanol	12.670	55	137466	1330.71	ug/L		98
92)	trans-1,3-dichloropropene	13.152	75	171179	46.25	ug/L		96
93)	ethyl methacrylate	13.146	69	149872	50.47	ug/L		94
94)	1,1,2-trichloroethane	13.387	83	83138	47.75	ug/L		95
95)	2-hexanone	13.580	58	47152	51.56	ug/L		90
97)	cyclohexanone	15.772	55	41201	113.38	ug/L		97
98)	tetrachloroethene	13.575	164	92921	40.77	ug/L		97
99)	1,3-dichloropropane	13.591	76	163554	45.80	ug/L		100
100)	butyl acetate	13.654	56	81137	55.60	ug/L		100
101)	dibromochloromethane	13.868	129	129040	46.46	ug/L		96
102)	1,2-dibromoethane	14.046	107	109771	46.72	ug/L		100
103)	3,3-dimethyl-1-Butanol	13.748	57	150263	764.98	ug/L		99
105)	chlorobenzene	14.548	112	290020	41.55	ug/L		97
106)	1,1,1,2-tetrachloroethane	14.611	131	120087	44.18	ug/L		98
107)	ethylbenzene	14.611	91	467567	41.68	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183738.d
Acq On : 10 May 2014 2:38 pm
Operator : conniex
Sample : jb66517-8ms
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: May 10 15:02:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) m,p-xylene	14.726	106	364322	83.11 ug/L	97
109) o-xylene	15.191	106	190983	41.91 ug/L	99
110) styrene	15.197	104	323128	44.51 ug/L	97
111) bromoform	15.489	173	102514	47.46 ug/L	97
113) isopropylbenzene	15.573	105	482854	41.15 ug/L	99
115) bromobenzene	16.018	156	145718	43.41 ug/L	96
116) 1,1,2,2-tetrachloroethane	15.897	83	160682	48.15 ug/L	99
117) trans-1,4-dichloro-2-b...	15.955	53	41488	47.43 ug/L	95
118) 1,2,3-trichloropropane	15.992	110	46588	50.80 ug/L	97
119) n-propylbenzene	16.028	91	524449	40.74 ug/L	99
120) 2-chlorotoluene	16.190	126	125607	42.29 ug/L	96
121) 4-chlorotoluene	16.300	91	367449	42.71 ug/L	98
123) 1,3,5-trimethylbenzene	16.190	105	427257	41.90 ug/L	98
124) tert-butylbenzene	16.588	119	367169	39.71 ug/L	98
125) pentachloroethane	16.671	167	103387	49.53 ug/L	99
126) 1,2,4-trimethylbenzene	16.635	105	433478	41.95 ug/L	99
128) sec-butylbenzene	16.828	105	516537	39.07 ug/L	99
129) 1,3-dichlorobenzene	17.027	146	284568	42.03 ug/L	98
130) p-isopropyltoluene	16.954	119	465135	39.43 ug/L	99
131) 1,4-dichlorobenzene	17.121	146	287564	41.26 ug/L	97
132) benzyl chloride	17.252	91	382618	57.50 ug/L	99
133) 1,2-dichlorobenzene	17.555	146	287007	42.68 ug/L	99
135) n-butylbenzene	17.414	92	213254	37.28 ug/L	99
137) 1,2-dibromo-3-chloropr...	18.418	157	46447	57.30 ug/L	93
138) 1,3,5-trichlorobenzene	18.622	180	226770	41.19 ug/L	99
139) 1,2,4-trichlorobenzene	19.360	180	210161	43.24 ug/L	99
140) hexachlorobutadiene	19.491	225	88709	33.18 ug/L	93
141) naphthalene	19.689	128	519869	50.94 ug/L	98
143) 1,2,3-trichlorobenzene	19.966	180	185287	44.51 ug/L	100
144) hexachloroethane	17.848	201	85486	40.60 ug/L	98

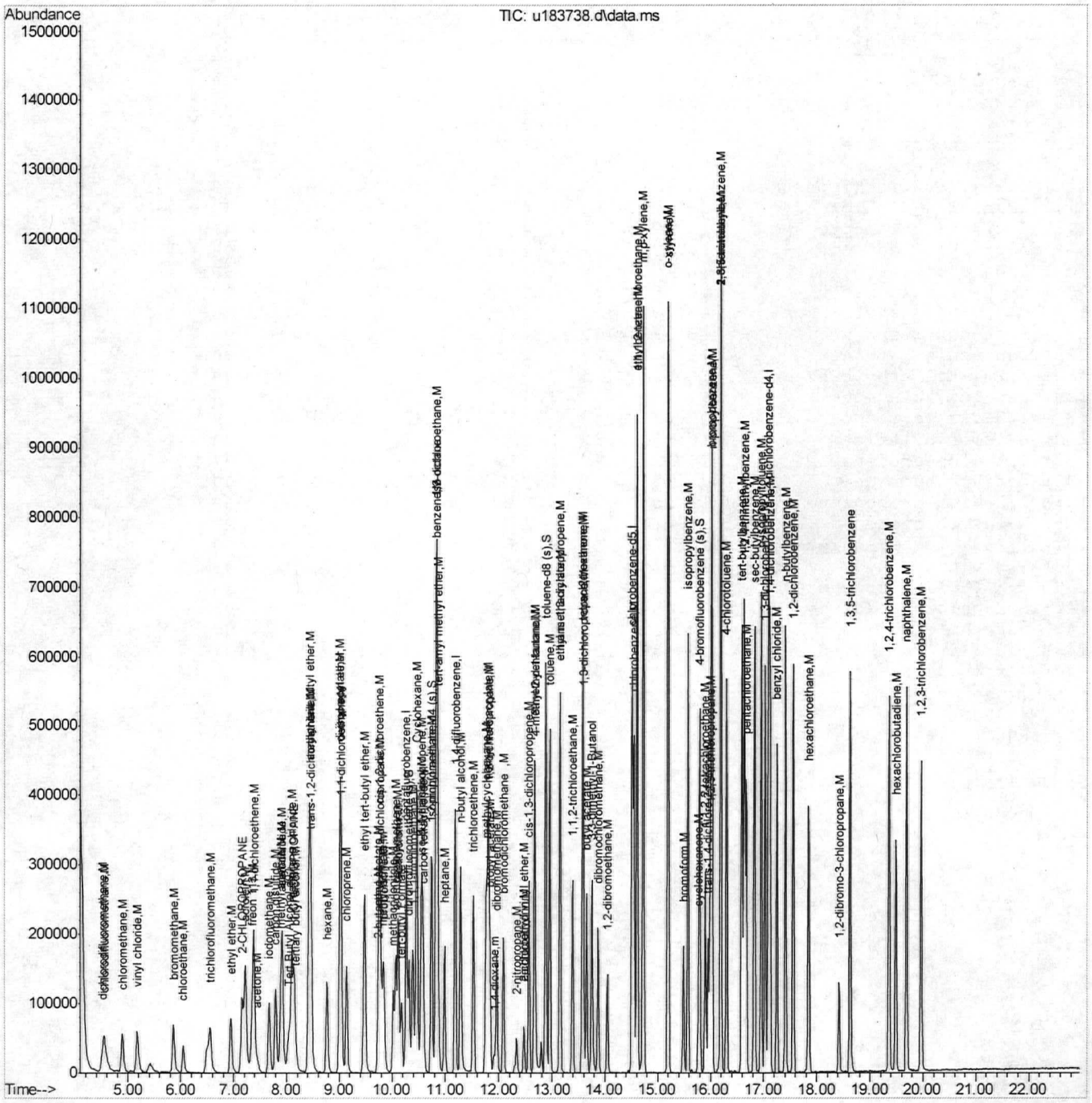
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183738.d
Acq On : 10 May 2014 2:38 pm
Operator : conniex
Sample : jb66517-8ms
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Time: May 10 15:02:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183739.d
Acq On : 10 May 2014 3:07 pm
Operator : conniex
Sample : jb66517-8msd
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 57 Sample Multiplier: 1

Quant Time: May 10 15:30:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.064	65	149946	500.00	ug/L	0.02
5) pentafluorobenzene	10.265	168	267528	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.181	114	385643	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	364311	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	228859	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.318	113	118783	52.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 105.90%			
57) 1,2-dichloroethane-d4 (s)	10.747	65	135884	54.83	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 109.66%			
88) toluene-d8 (s)	12.881	98	446061	55.32	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 110.64%			
114) 4-bromofluorobenzene (s)	15.794	95	181353	53.80	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 107.60%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.179	59	83186	258.25	ug/L #	32
4) 1,4-dioxane	11.929	88	30705	1330.23	ug/L #	97
11) chlorodifluoromethane	4.538	51	84965	38.34	ug/L	98
12) dichlorodifluoromethane	4.518	85	104741	37.38	ug/L	99
15) chloromethane	4.889	50	113281	40.57	ug/L	99
16) vinyl chloride	5.177	62	108509	37.91	ug/L	99
18) bromomethane	5.856	94	78940	42.25	ug/L	93
19) chloroethane	6.040	64	52526	42.58	ug/L	99
20) trichlorofluoromethane	6.547	101	151872	38.78	ug/L	96
23) ethyl ether	6.944	74	55633	46.03	ug/L	94
24) 2-CHLOROPROPANE	7.159	43	142881	37.85	ug/L	97
27) acrolein	7.221	56	234826	527.75	ug/L	99
28) 1,1-dichloroethene	7.378	96	79140	35.19	ug/L	98
29) acetone	7.441	58	11456	38.71	ug/L	99
30) allyl chloride	7.912	78	13741	37.30	ug/L	91
31) acetonitrile	7.907	40	98088	585.35	ug/L	99
32) iodomethane	7.666	142	175691	40.67	ug/L	97
33) carbon disulfide	7.786	76	261009	34.67	ug/L	99
34) 1-CHLOROPROPANE	8.126	63	7519	38.32	ug/L	86
35) methylene chloride	8.095	84	103614	42.48	ug/L	98
36) methyl acetate	7.891	43	87883	50.15	ug/L	99
37) methyl tert butyl ether	8.424	73	336798	45.30	ug/L	99
38) trans-1,2-dichloroethene	8.466	96	92835	38.06	ug/L	96
39) di-isopropyl ether	9.015	45	319945	44.38	ug/L	96
40) ethyl tert-butyl ether	9.476	59	339177	45.39	ug/L	99
41) 2-butanone	9.742	72	14368	45.73	ug/L #	72
42) 1,1-dichloroethane	9.036	63	178868	43.56	ug/L	99
43) chloroprene	9.141	53	123377	38.77	ug/L	96
44) acrylonitrile	8.435	53	214796	262.23	ug/L	99
45) vinyl acetate	9.015	86	20391	48.17	ug/L #	66
46) ethyl acetate	9.742	45	16361	51.78	ug/L	75
47) 2,2-dichloropropane	9.779	77	147656	41.15	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183739.d
Acq On : 10 May 2014 3:07 pm
Operator : conniex
Sample : jb66517-8msd
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 57 Sample Multiplier: 1

Quant Time: May 10 15:30:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.758	96	108441	40.29	ug/L		98
49)	methyl acrylate	9.826	55	129988	50.83	ug/L		98
50)	propionitrile	9.847	54	181749	547.61	ug/L		87
51)	bromochloromethane	10.067	128	59872	43.11	ug/L		98
52)	tetrahydrofuran	10.109	42	38626	50.73	ug/L		97
53)	chloroform	10.119	83	172450	38.13	ug/L		98
54)	tert-butyl Formate	10.177	59	61524	30.03	ug/L		99
55)	iso-butyl alcohol	10.548	74	14968	449.68	ug/L	#	1
58)	freon 113	7.357	151	68428	39.25	ug/L		92
59)	methacrylonitrile	10.025	41	71393	47.74	ug/L		98
60)	1,1,1-trichloroethane	10.386	97	158061	41.48	ug/L		97
62)	tert-amyl methyl ether	10.856	87	85129	47.99	ug/L		94
63)	iso-octane	10.830	57	240740	33.46	ug/L		95
66)	epichlorohydrin	12.467	57	61226	239.58	ug/L		98
67)	n-butyl alcohol	11.296	56	211311	3175.67	ug/L		98
68)	Cyclohexane	10.459	84	122861	35.35	ug/L		97
69)	carbon tetrachloride	10.584	117	132385	38.75	ug/L		95
70)	1,1-dichloropropene	10.553	75	118501	38.86	ug/L		99
71)	hexane	8.764	86	13677	33.15	ug/L	#	83
72)	benzene	10.825	78	363342	40.38	ug/L		99
73)	heptane	10.982	57	45344	32.41	ug/L		96
74)	isopropyl acetate	10.736	43	213611	50.74	ug/L		99
75)	1,2-dichloroethane	10.836	62	142764	45.15	ug/L		99
78)	trichloroethene	11.526	95	95292	39.83	ug/L		98
79)	methylcyclohexane	11.761	83	130096	35.89	ug/L		97
80)	2-nitropropane	12.331	41	32869	35.14	ug/L	#	1
81)	2-chloroethyl vinyl ether	12.478	63	2387	2.15	ug/L		63
82)	methyl methacrylate	11.798	100	32483	47.90	ug/L		93
83)	1,2-dichloropropane	11.808	63	99014	43.24	ug/L		99
84)	propyl acetate	11.834	73	22220	48.42	ug/L		95
85)	dibromomethane	11.955	93	70366	45.86	ug/L		96
86)	bromodichloromethane	12.086	83	144799	42.21	ug/L		99
87)	cis-1,3-dichloropropene	12.561	75	177101	44.68	ug/L		97
89)	4-methyl-2-pentanone	12.677	58	48688	51.04	ug/L	#	84
90)	toluene	12.954	92	234600	40.27	ug/L		98
91)	3-methyl-1-butanol	12.671	55	139526	1284.73	ug/L		98
92)	trans-1,3-dichloropropene	13.152	75	172896	44.43	ug/L		98
93)	ethyl methacrylate	13.147	69	147686	47.30	ug/L		99
94)	1,1,2-trichloroethane	13.388	83	82522	45.08	ug/L		98
95)	2-hexanone	13.581	58	46313	48.17	ug/L		94
97)	cyclohexanone	15.773	55	42933	116.47	ug/L		95
98)	tetrachloroethene	13.576	164	91840	39.72	ug/L		93
99)	1,3-dichloropropane	13.592	76	165437	45.67	ug/L		99
100)	butyl acetate	13.655	56	78305	52.90	ug/L		98
101)	dibromochloromethane	13.869	129	130168	46.20	ug/L		99
102)	1,2-dibromoethane	14.047	107	112473	47.19	ug/L		100
103)	3,3-dimethyl-1-Butanol	13.754	57	149476	750.19	ug/L		100
105)	chlorobenzene	14.549	112	289320	40.87	ug/L		99
106)	1,1,1,2-tetrachloroethane	14.612	131	122696	44.50	ug/L		97
107)	ethylbenzene	14.606	91	463147	40.70	ug/L		98

7.4.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183739.d
Acq On : 10 May 2014 3:07 pm
Operator : conniex
Sample : jb66517-8msd
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 57 Sample Multiplier: 1

Quant Time: May 10 15:30:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) m,p-xylene	14.727	106	364225	81.91 ug/L	97
109) o-xylene	15.192	106	188322	40.74 ug/L	97
110) styrene	15.197	104	324670	44.09 ug/L	98
111) bromoform	15.485	173	102944	46.98 ug/L	98
113) isopropylbenzene	15.574	105	477951	39.60 ug/L	99
115) bromobenzene	16.019	156	148765	43.09 ug/L	97
116) 1,1,2,2-tetrachloroethane	15.898	83	157631	45.92 ug/L	98
117) trans-1,4-dichloro-2-b...	15.951	53	41173	45.76 ug/L	98
118) 1,2,3-trichloropropane	15.992	110	45559	48.29 ug/L	97
119) n-propylbenzene	16.029	91	523796	39.56 ug/L	99
120) 2-chlorotoluene	16.191	126	124188	40.65 ug/L	98
121) 4-chlorotoluene	16.301	91	369505	41.75 ug/L	100
123) 1,3,5-trimethylbenzene	16.191	105	422819	40.31 ug/L	99
124) tert-butylbenzene	16.589	119	368169	38.71 ug/L	99
125) pentachloroethane	16.672	167	103476	48.19 ug/L	98
126) 1,2,4-trimethylbenzene	16.636	105	434892	40.91 ug/L	99
128) sec-butylbenzene	16.824	105	506691	37.26 ug/L	99
129) 1,3-dichlorobenzene	17.028	146	285793	41.04 ug/L	98
130) p-isopropyltoluene	16.955	119	458733	37.81 ug/L	99
131) 1,4-dichlorobenzene	17.117	146	292969	40.87 ug/L	99
132) benzyl chloride	17.253	91	374448	54.70 ug/L	99
133) 1,2-dichlorobenzene	17.556	146	293339	42.41 ug/L	99
135) n-butylbenzene	17.415	92	211892	36.01 ug/L	96
137) 1,2-dibromo-3-chloropr...	18.419	157	44820	53.76 ug/L	97
138) 1,3,5-trichlorobenzene	18.623	180	226244	39.95 ug/L	99
139) 1,2,4-trichlorobenzene	19.361	180	210324	42.07 ug/L	97
140) hexachlorobutadiene	19.486	225	87958	31.99 ug/L	100
141) naphthalene	19.690	128	497186	47.37 ug/L	99
143) 1,2,3-trichlorobenzene	19.967	180	181001	42.27 ug/L	99
144) hexachloroethane	17.849	201	87164	40.24 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

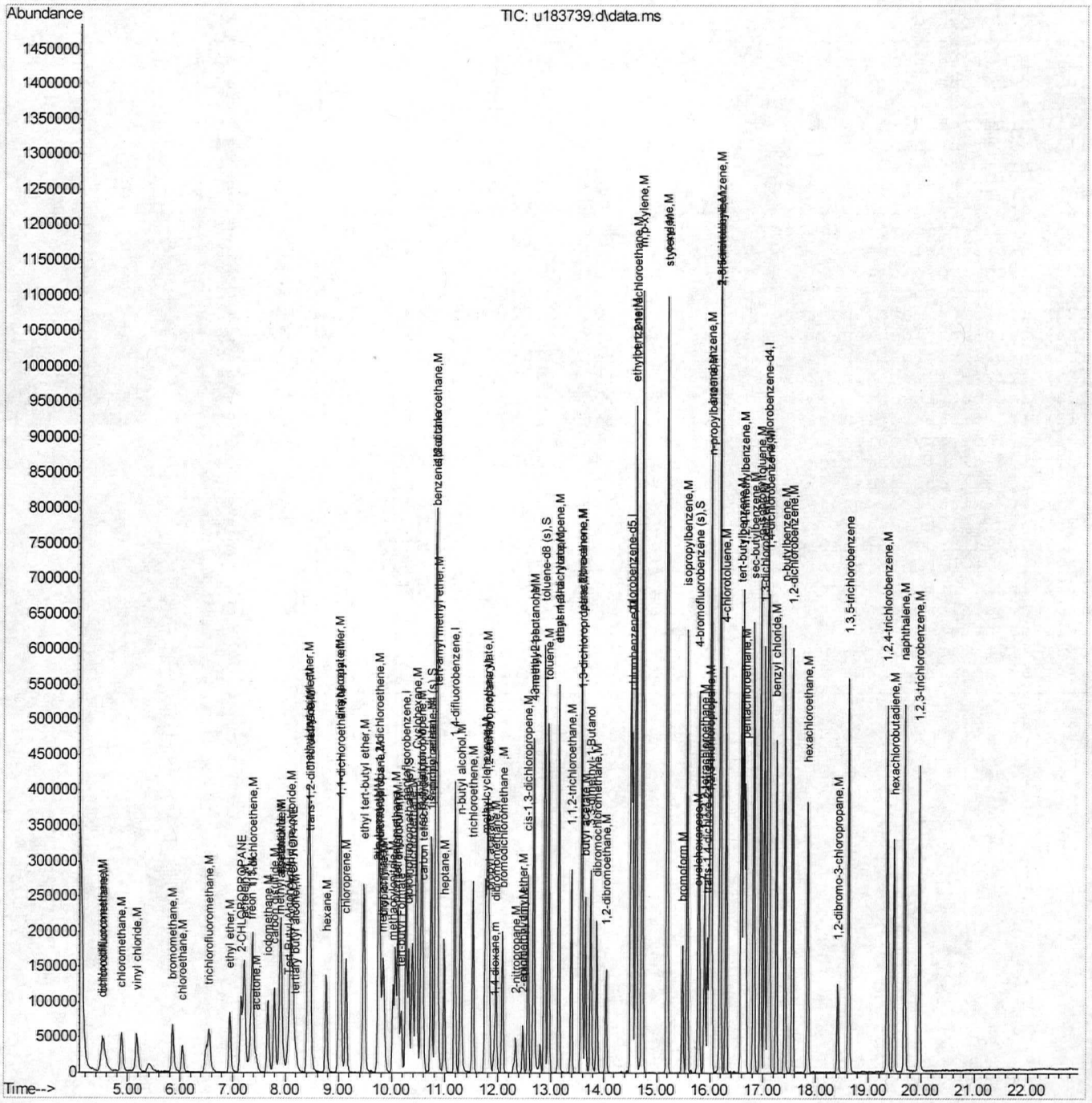
7.4.2 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183739.d
Acq On : 10 May 2014 3:07 pm
Operator : conniex
Sample : jb66517-8msd
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 57 Sample Multiplier: 1

Quant Time: May 10 15:30:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

7.4.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183832a.d
Acq On : 13 May 2014 4:47 pm
Operator : conniex
Sample : jb66479-7ms
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 17:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.064	65	131516	500.00	ug/L	0.02
5) pentafluorobenzene	10.266	168	248003	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.176	114	355348	50.00	ug/L	0.00
96) chlorobenzene-d5	14.513	117	349944	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	216568	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.313	113	112742	54.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 108.42%			
57) 1,2-dichloroethane-d4 (s)	10.742	65	125036	54.42	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 108.84%			
88) toluene-d8 (s)	12.876	98	421374	56.72	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 113.44%			
114) 4-bromofluorobenzene (s)	15.789	95	173302	54.33	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 108.66%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.184	59	73911	261.61	ug/L #	26
4) 1,4-dioxane	11.924	88	27322	1349.83	ug/L #	99
11) chlorodifluoromethane	4.539	51	78170	38.05	ug/L	95
12) dichlorodifluoromethane	4.518	85	70259	27.05	ug/L	98
15) chloromethane	4.884	50	94972	36.69	ug/L	97
16) vinyl chloride	5.172	62	85603	32.26	ug/L	97
18) bromomethane	5.862	94	73663	42.53	ug/L	99
19) chloroethane	6.050	64	45397	39.70	ug/L	96
20) trichlorofluoromethane	6.547	101	115889	31.92	ug/L	98
23) ethyl ether	6.945	74	55210	49.27	ug/L	97
24) 2-CHLOROPROPANE	7.154	43	131160	37.48	ug/L	97
27) acrolein	7.211	56	227134	550.65	ug/L	98
28) 1,1-dichloroethene	7.379	96	66319	31.81	ug/L	97
29) acetone	7.436	58	10532	38.39	ug/L	97
30) allyl chloride	7.912	78	13336	39.05	ug/L #	87
31) acetonitrile	7.907	40	91072	586.27	ug/L	96
32) iodomethane	7.661	142	171889	42.92	ug/L	99
33) carbon disulfide	7.782	76	225032	32.24	ug/L	98
34) 1-CHLOROPROPANE	8.137	63	5534	30.43	ug/L #	61
35) methylene chloride	8.095	84	102649	45.40	ug/L	96
36) methyl acetate	7.886	43	90214	55.54	ug/L	99
37) methyl tert butyl ether	8.425	73	335250	48.64	ug/L	99
38) trans-1,2-dichloroethene	8.467	96	82008	36.27	ug/L	94
39) di-isopropyl ether	9.011	45	318521	47.66	ug/L	96
40) ethyl tert-butyl ether	9.471	59	275083	39.71	ug/L	99
41) 2-butanone	9.727	72	13087	44.93	ug/L #	79
42) 1,1-dichloroethane	9.032	63	154774	40.66	ug/L	99
43) chloroprene	9.136	53	106304	36.04	ug/L	97
44) acrylonitrile	8.430	53	212643	280.04	ug/L	99
45) vinyl acetate	9.011	86	16966	43.23	ug/L #	86
46) ethyl acetate	9.738	45	13695	46.76	ug/L	72
47) 2,2-dichloropropane	9.774	77	127123	38.22	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183832a.d
Acq On : 13 May 2014 4:47 pm
Operator : conniex
Sample : jb66479-7ms
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 17:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.753	96	102289	41.00	ug/L		94
49)	methyl acrylate	9.821	55	120087	50.65	ug/L		96
50)	propionitrile	9.842	54	166570	541.39	ug/L		85
51)	bromochloromethane	10.062	128	58658	45.57	ug/L		99
52)	tetrahydrofuran	10.109	42	34038	48.23	ug/L		98
53)	chloroform	10.114	83	166215	39.65	ug/L		98
54)	tert-butyl Formate	10.386	59	1383	0.73	ug/L	#	25
55)	iso-butyl alcohol	10.548	74	11937	386.85	ug/L	#	1
58)	freon 113	7.363	151	57931	35.84	ug/L		100
59)	methacrylonitrile	10.020	41	67636	48.78	ug/L		98
60)	1,1,1-trichloroethane	10.381	97	127493	36.09	ug/L		97
62)	tert-amyl methyl ether	10.852	87	76994	46.82	ug/L		96
63)	iso-octane	10.825	57	203622	30.52	ug/L		95
66)	epichlorohydrin	12.468	57	36989	157.08	ug/L		99
67)	n-butyl alcohol	11.291	56	177944	2902.20	ug/L		96
68)	Cyclohexane	10.459	84	92223	28.80	ug/L	#	79
69)	carbon tetrachloride	10.580	117	108923	34.60	ug/L		95
70)	1,1-dichloropropene	10.554	75	98214	34.96	ug/L		98
71)	hexane	8.765	86	12143	31.94	ug/L		96
72)	benzene	10.820	78	336865	40.63	ug/L		99
73)	heptane	10.982	57	41664	32.32	ug/L		95
74)	isopropyl acetate	10.731	43	189528	48.86	ug/L		97
75)	1,2-dichloroethane	10.831	62	140236	48.13	ug/L		98
78)	trichloroethene	11.521	95	83350	37.81	ug/L		97
79)	methylcyclohexane	11.756	83	105535	31.59	ug/L		97
80)	2-nitropropane	12.332	41	31744	36.83	ug/L	#	1
81)	2-chloroethyl vinyl ether	12.463	63	1570	1.53	ug/L	#	44
82)	methyl methacrylate	11.793	100	31208	49.94	ug/L	#	84
83)	1,2-dichloropropane	11.804	63	93200	44.18	ug/L		100
84)	propyl acetate	11.835	73	19802	46.83	ug/L		98
85)	dibromomethane	11.955	93	66475	47.01	ug/L		98
86)	bromodichloromethane	12.081	83	137908	43.62	ug/L		98
87)	cis-1,3-dichloropropene	12.562	75	169984	46.54	ug/L		96
89)	4-methyl-2-pentanone	12.677	58	44792	50.96	ug/L		96
90)	toluene	12.954	92	217019	40.42	ug/L		99
91)	3-methyl-1-butanol	12.666	55	107369	1072.92	ug/L		99
92)	trans-1,3-dichloropropene	13.153	75	169352	47.23	ug/L		96
93)	ethyl methacrylate	13.148	69	141233	49.09	ug/L		97
94)	1,1,2-trichloroethane	13.388	83	81552	48.35	ug/L		99
95)	2-hexanone	13.577	58	41069	46.36	ug/L		97
97)	cyclohexanone	15.773	55	38814	109.62	ug/L		98
98)	tetrachloroethene	13.571	164	73717	33.19	ug/L		96
99)	1,3-dichloropropane	13.587	76	163946	47.11	ug/L		99
100)	butyl acetate	13.650	56	66586	46.83	ug/L		95
101)	dibromochloromethane	13.864	129	128224	47.38	ug/L		98
102)	1,2-dibromoethane	14.042	107	109661	47.90	ug/L		94
103)	3,3-dimethyl-1-Butanol	13.749	57	109159	570.34	ug/L		99
105)	chlorobenzene	14.544	112	280538	41.25	ug/L		98
106)	1,1,1,2-tetrachloroethane	14.607	131	117469	44.35	ug/L		98
107)	ethylbenzene	14.607	91	427854	39.14	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183832a.d
Acq On : 13 May 2014 4:47 pm
Operator : conniex
Sample : jb66479-7ms
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 17:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) m,p-xylene	14.722	106	331020	77.50 ug/L	96
109) o-xylene	15.187	106	177976	40.09 ug/L	98
110) styrene	15.193	104	311129	43.99 ug/L	98
111) bromoform	15.486	173	101169	48.07 ug/L	99
113) isopropylbenzene	15.569	105	426970	37.38 ug/L	99
115) bromobenzene	16.014	156	146389	44.81 ug/L	97
116) 1,1,2,2-tetrachloroethane	15.893	83	152717	47.02 ug/L	99
117) trans-1,4-dichloro-2-b...	15.946	53	38878	45.66 ug/L	95
118) 1,2,3-trichloropropane	15.988	110	42752	47.89 ug/L	94
119) n-propylbenzene	16.024	91	465159	37.12 ug/L	100
120) 2-chlorotoluene	16.186	126	118201	40.89 ug/L	98
121) 4-chlorotoluene	16.296	91	349240	41.70 ug/L	99
123) 1,3,5-trimethylbenzene	16.192	105	383520	38.64 ug/L	99
124) tert-butylbenzene	16.584	119	319449	35.49 ug/L	98
125) pentachloroethane	16.668	167	99867	49.15 ug/L	98
126) 1,2,4-trimethylbenzene	16.631	105	402674	40.03 ug/L	98
128) sec-butylbenzene	16.824	105	444826	34.56 ug/L	99
129) 1,3-dichlorobenzene	17.028	146	270711	41.08 ug/L	99
130) p-isopropyltoluene	16.955	119	412822	35.95 ug/L	99
131) 1,4-dichlorobenzene	17.117	146	277168	40.86 ug/L	97
132) benzyl chloride	17.248	91	279257	43.11 ug/L	100
133) 1,2-dichlorobenzene	17.557	146	279407	42.69 ug/L	99
135) n-butylbenzene	17.410	92	185078	33.24 ug/L	99
137) 1,2-dibromo-3-chloropr...	18.414	157	42113	53.38 ug/L	96
138) 1,3,5-trichlorobenzene	18.618	180	213372	39.82 ug/L	99
139) 1,2,4-trichlorobenzene	19.356	180	200458	42.37 ug/L	98
140) hexachlorobutadiene	19.487	225	79609	30.59 ug/L	96
141) naphthalene	19.685	128	472471	47.57 ug/L	98
143) 1,2,3-trichlorobenzene	19.962	180	176409	43.54 ug/L	99
144) hexachloroethane	17.844	201	77153	37.64 ug/L	99

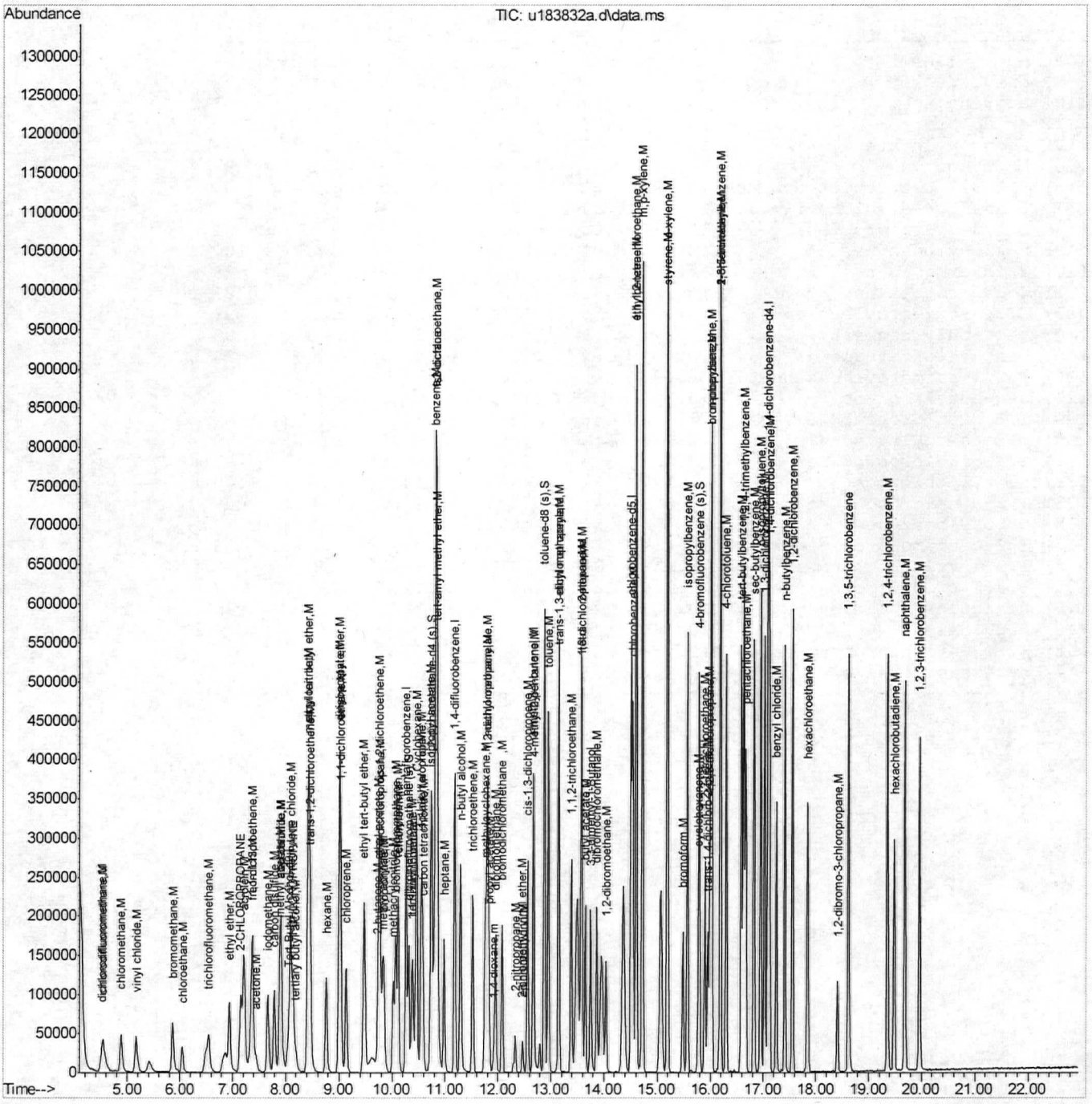
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.3 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183832a.d
Acq On : 13 May 2014 4:47 pm
Operator : conniex
Sample : jb66479-7ms
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 17:10:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



Manual Integrations
APPROVED
(compounds with "m" flag)
Mei Chen
05/14/14 16:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183833.d
Acq On : 13 May 2014 5:16 pm
Operator : conniex
Sample : jb66479-7msd
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 14 14:47:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.063	65	148419	500.00	ug/L	0.02
5) pentafluorobenzene	10.265	168	264889	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	376169	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	373923	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	227307	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.312	113	116244	52.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.66%			
57) 1,2-dichloroethane-d4 (s)	10.741	65	130261	53.08	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 106.16%			
88) toluene-d8 (s)	12.874	98	449402	57.14	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 114.28%			
114) 4-bromofluorobenzene (s)	15.793	95	185328	55.35	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 110.70%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.178	59	77017	241.56	ug/L #	30
4) 1,4-dioxane	11.917	88	28492	1245.83	ug/L #	99
11) chlorodifluoromethane	4.538	51	80102	36.50	ug/L	93
12) dichlorodifluoromethane	4.511	85	68249	24.60	ug/L	94
15) chloromethane	4.878	50	96676	34.97	ug/L	98
16) vinyl chloride	5.170	62	87363	30.82	ug/L	98
18) bromomethane	5.850	94	73925	39.96	ug/L	99
19) chloroethane	6.044	64	44978	36.82	ug/L	98
20) trichlorofluoromethane	6.546	101	113891m	29.37	ug/L	
23) ethyl ether	6.938	74	54149	45.25	ug/L	95
24) 2-CHLOROPROPANE	7.153	43	133589	35.75	ug/L	98
27) acrolein	7.215	56	232043	526.69	ug/L	97
28) 1,1-dichloroethene	7.372	96	66991	30.08	ug/L	95
29) acetone	7.446	58	10735	36.64	ug/L	93
30) allyl chloride	7.916	78	13279	36.40	ug/L	99
31) acetonitrile	7.906	40	91757	553.02	ug/L	96
32) iodomethane	7.660	142	172081	40.23	ug/L	100
33) carbon disulfide	7.786	76	230934	30.98	ug/L	96
34) 1-CHLOROPROPANE	8.136	63	5918	30.46	ug/L	71
35) methylene chloride	8.094	84	101251	41.93	ug/L	98
36) methyl acetate	7.890	43	92651	53.40	ug/L	100
37) methyl tert butyl ether	8.424	73	327767	44.52	ug/L	99
38) trans-1,2-dichloroethene	8.460	96	85325	35.33	ug/L	97
39) di-isopropyl ether	9.009	45	312135	43.73	ug/L	95
40) ethyl tert-butyl ether	9.475	59	264254	35.71	ug/L	98
41) 2-butanone	9.731	72	13699	44.03	ug/L #	83
42) 1,1-dichloroethane	9.030	63	161963	39.84	ug/L	99
43) chloroprene	9.135	53	108219	34.35	ug/L	95
44) acrylonitrile	8.429	53	219530	270.68	ug/L	99
45) vinyl acetate	9.009	86	16902	40.32	ug/L #	94
46) ethyl acetate	9.742	45	14351	45.87	ug/L	82
47) 2,2-dichloropropane	9.773	77	125990	35.46	ug/L	97

7.4.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183833.d
Acq On : 13 May 2014 5:16 pm
Operator : conniex
Sample : jb66479-7msd
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 14 14:47:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.752	96	102381	38.42	ug/L		95
49)	methyl acrylate	9.820	55	124035	48.98	ug/L		96
50)	propionitrile	9.841	54	173285	527.31	ug/L		90
51)	bromochloromethane	10.066	128	57380	41.73	ug/L		96
52)	tetrahydrofuran	10.108	42	35494	47.08	ug/L		99
53)	chloroform	10.113	83	166271	37.13	ug/L		99
54)	tert-butyl Formate	10.385	59	1500	0.74	ug/L	#	25
55)	iso-butyl alcohol	10.552	74	12283	372.69	ug/L	#	1
58)	freon 113	7.351	151	55364	32.07	ug/L		98
59)	methacrylonitrile	10.019	41	70693	47.74	ug/L		92
60)	1,1,1-trichloroethane	10.385	97	128841	34.15	ug/L		96
62)	tert-amyl methyl ether	10.850	87	72279	41.15	ug/L		98
63)	iso-octane	10.829	57	204453	28.70	ug/L		96
66)	epichlorohydrin	12.467	57	37380	149.95	ug/L		97
67)	n-butyl alcohol	11.290	56	183444	2826.31	ug/L		99
68)	Cyclohexane	10.458	84	92369	27.25	ug/L	#	80
69)	carbon tetrachloride	10.584	117	108835	32.66	ug/L		98
70)	1,1-dichloropropene	10.552	75	101079	33.99	ug/L		98
71)	hexane	8.764	86	12596	31.30	ug/L		95
72)	benzene	10.819	78	343220	39.11	ug/L		99
73)	heptane	10.981	57	41336	30.29	ug/L		97
74)	isopropyl acetate	10.730	43	196843	47.94	ug/L		100
75)	1,2-dichloroethane	10.829	62	135678	43.99	ug/L		98
78)	trichloroethene	11.520	95	85189	36.50	ug/L		96
79)	methylcyclohexane	11.760	83	104093	29.44	ug/L		99
80)	2-nitropropane	12.331	41	32452	35.56	ug/L	#	1
81)	2-chloroethyl vinyl ether	12.461	63	1559	1.44	ug/L		65
82)	methyl methacrylate	11.792	100	31864	48.17	ug/L		91
83)	1,2-dichloropropane	11.802	63	94189	42.17	ug/L		96
84)	propyl acetate	11.834	73	20445	45.67	ug/L		97
85)	dibromomethane	11.954	93	64916	43.37	ug/L		99
86)	bromodichloromethane	12.079	83	136174	40.69	ug/L		97
87)	cis-1,3-dichloropropene	12.561	75	169313	43.79	ug/L		96
89)	4-methyl-2-pentanone	12.676	58	45663	49.07	ug/L	#	91
90)	toluene	12.953	92	224786	39.55	ug/L		100
91)	3-methyl-1-butanol	12.665	55	112065	1057.87	ug/L		99
92)	trans-1,3-dichloropropene	13.152	75	167712	44.19	ug/L		98
93)	ethyl methacrylate	13.146	69	143788	47.22	ug/L		97
94)	1,1,2-trichloroethane	13.387	83	81791	45.81	ug/L		97
95)	2-hexanone	13.581	58	43108	45.96	ug/L		96
97)	cyclohexanone	15.772	55	39647	104.79	ug/L		98
98)	tetrachloroethene	13.575	164	74554	31.42	ug/L		97
99)	1,3-dichloropropane	13.586	76	165522	44.52	ug/L		98
100)	butyl acetate	13.654	56	69183	45.53	ug/L		95
101)	dibromochloromethane	13.868	129	126167	43.63	ug/L		98
102)	1,2-dibromoethane	14.041	107	111243	45.47	ug/L		100
103)	3,3-dimethyl-1-Butanol	13.753	57	114564	560.19	ug/L		99
105)	chlorobenzene	14.543	112	285932	39.35	ug/L		99
106)	1,1,1,2-tetrachloroethane	14.606	131	115383	40.77	ug/L		97
107)	ethylbenzene	14.606	91	440478	37.71	ug/L		98

7.4.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183833.d
Acq On : 13 May 2014 5:16 pm
Operator : conniex
Sample : jb66479-7msd
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 14 14:47:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
108) m,p-xylene	14.726	106	342084	74.95 ug/L	99
109) o-xylene	15.191	106	179425	37.82 ug/L	97
110) styrene	15.197	104	313685	41.50 ug/L	99
111) bromoform	15.484	173	101294	45.04 ug/L	98
113) isopropylbenzene	15.568	105	430705	35.93 ug/L	100
115) bromobenzene	16.013	156	142238	41.48 ug/L	99
116) 1,1,2,2-tetrachloroethane	15.897	83	156851	46.01 ug/L	99
117) trans-1,4-dichloro-2-b...	15.950	53	39369	44.05 ug/L	98
118) 1,2,3-trichloropropane	15.992	110	45371	48.42 ug/L	98
119) n-propylbenzene	16.028	91	471114	35.82 ug/L	99
120) 2-chlorotoluene	16.185	126	117640	38.77 ug/L	95
121) 4-chlorotoluene	16.300	91	347877	39.57 ug/L	99
123) 1,3,5-trimethylbenzene	16.190	105	383443	36.81 ug/L	96
124) tert-butylbenzene	16.583	119	326548	34.57 ug/L	100
125) pentachloroethane	16.672	167	97535	45.73 ug/L	96
126) 1,2,4-trimethylbenzene	16.630	105	401714	38.05 ug/L	99
128) sec-butylbenzene	16.823	105	450178	33.33 ug/L	99
129) 1,3-dichlorobenzene	17.027	146	268010	38.75 ug/L	98
130) p-isopropyltoluene	16.954	119	408499	33.90 ug/L	99
131) 1,4-dichlorobenzene	17.116	146	272803	38.31 ug/L	98
132) benzyl chloride	17.247	91	279562	41.12 ug/L	99
133) 1,2-dichlorobenzene	17.555	146	273244	39.78 ug/L	99
135) n-butylbenzene	17.409	92	188477	32.25 ug/L	99
137) 1,2-dibromo-3-chloropr...	18.418	157	41856	50.55 ug/L	97
138) 1,3,5-trichlorobenzene	18.622	180	205063	36.46 ug/L	99
139) 1,2,4-trichlorobenzene	19.355	180	189179	38.10 ug/L	98
140) hexachlorobutadiene	19.485	225	79939	29.27 ug/L	97
141) naphthalene	19.684	128	447931	42.96 ug/L	99
143) 1,2,3-trichlorobenzene	19.961	180	166263	39.10 ug/L	99
144) hexachloroethane	17.843	201	76886	35.74 ug/L	99

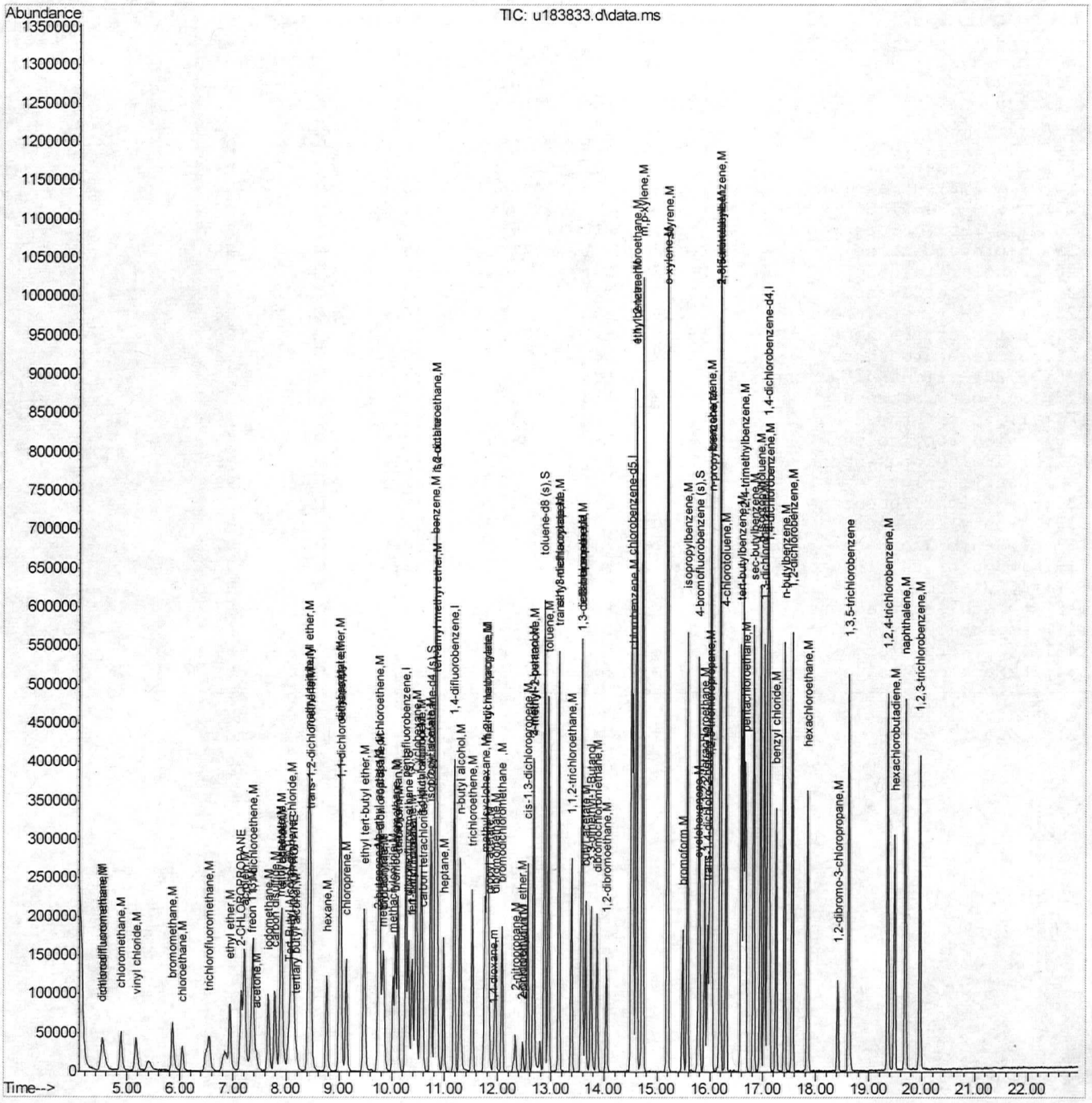
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8483-8484\
Data File : u183833.d
Acq On : 13 May 2014 5:16 pm
Operator : conniex
Sample : jb66479-7msd
Misc : ms67262,vu8483,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 14 14:47:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	JB66479-7MSD	**Method:**	SW846 8260B
Lab FileID:	U183833.D	**Analyst approved:**	05/14/14 14:48 Yunxia Chen
Injection Time:	05/13/14 17:16	**Supervisor approved:**	05/14/14 16:25 Mei Chen

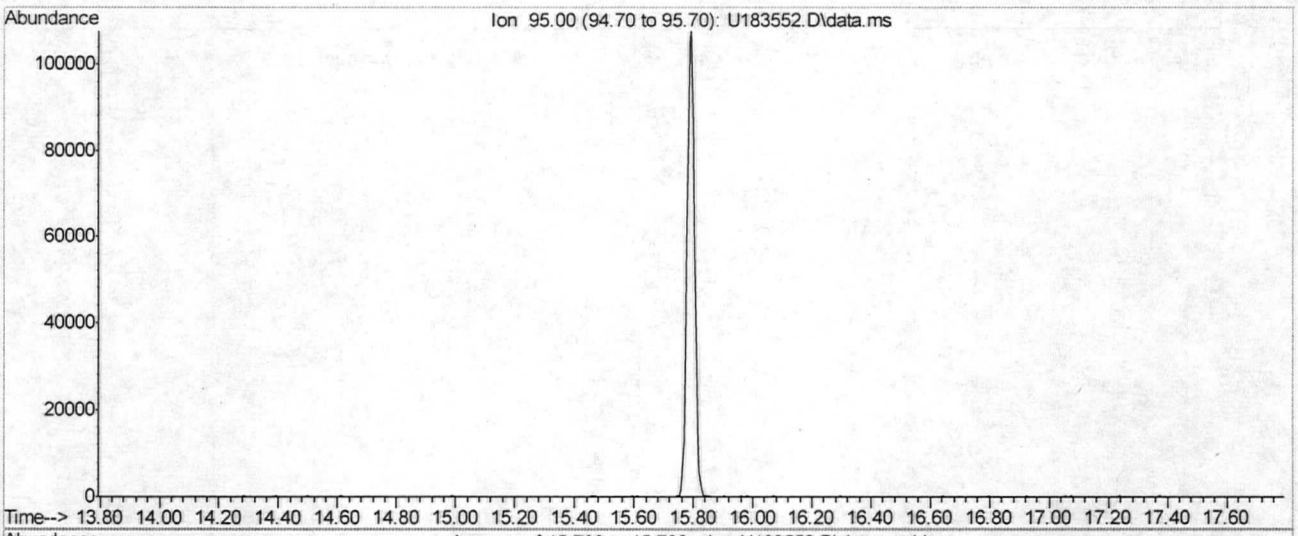
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		6.55	Split peak

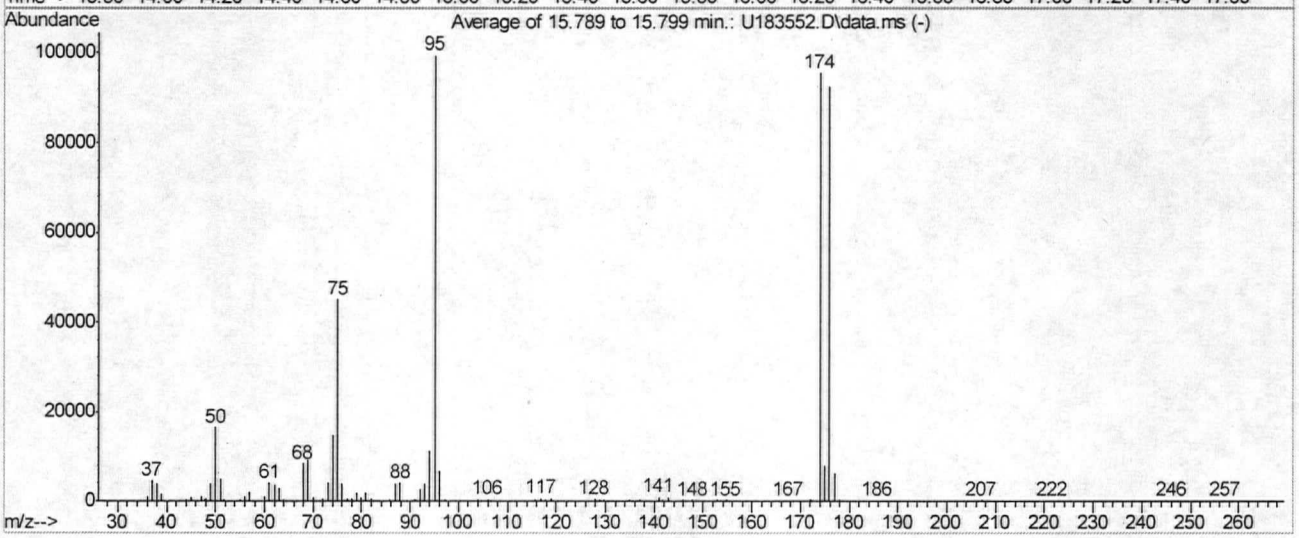
BFB

Data File : C:\msdchem\1\DATA\U183552.D
Acq On : 5 May 2014 5:45 pm
Sample : bfb
Misc : ms66620,vu8469,5.0,,,,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: conniex
Inst : MSU
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um





AutoFind: Scans 2237, 2238, 2239; Background Corrected with Scan 2226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	16539	PASS
75	95	30	60	45.3	45045	PASS
95	95	100	100	100.0	99474	PASS
96	95	5	9	6.6	6570	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.9	95416	PASS
175	174	5	9	8.4	7981	PASS
176	174	95	101	96.9	92421	PASS
177	176	5	9	6.7	6183	PASS

U183552.D MU8469.M Tue May 06 10:37:27 2014 RPT1

Average of 15.789 to 15.799 min.: U183552.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	989	49.00	3837	62.05	3607	76.00	3954
37.05	4472	50.00	16539	63.00	2737	77.05	614
38.05	3756	51.05	4915	64.05	299	77.50	129
39.00	1636	51.90	222	66.90	102	78.00	529
40.00	104	52.10	68	67.95	8401	78.90	1806
42.20	62	55.15	300	69.00	9141	79.90	712
44.00	370	56.00	1116	69.95	743	80.90	1792
45.00	729	57.05	2027	71.95	594	81.90	494
47.05	1144	58.10	55	73.00	4071	85.75	153
47.70	143	60.00	1002	74.00	14687	86.00	60
47.95	428	61.00	4043	75.00	45045	86.90	3712

Average of 15.789 to 15.799 min.: U183552.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	4041	103.00	55	116.90	532	138.20	70
90.90	241	103.70	132	117.90	339	138.90	60
91.20	148	103.95	216	118.95	483	139.50	59
92.00	2679	104.70	79	127.10	66	139.80	80
93.00	3844	104.90	58	127.85	431	140.95	894
94.00	11253	106.00	344	128.75	192	141.70	158
95.00	99474	106.80	58	129.85	336	142.95	824
96.00	6570	110.80	69	131.00	58	144.90	78
96.90	98	114.90	80	132.90	75	145.95	208
97.15	187	115.80	222	134.90	212	147.90	251
98.00	68	116.00	128	137.05	194	149.00	50

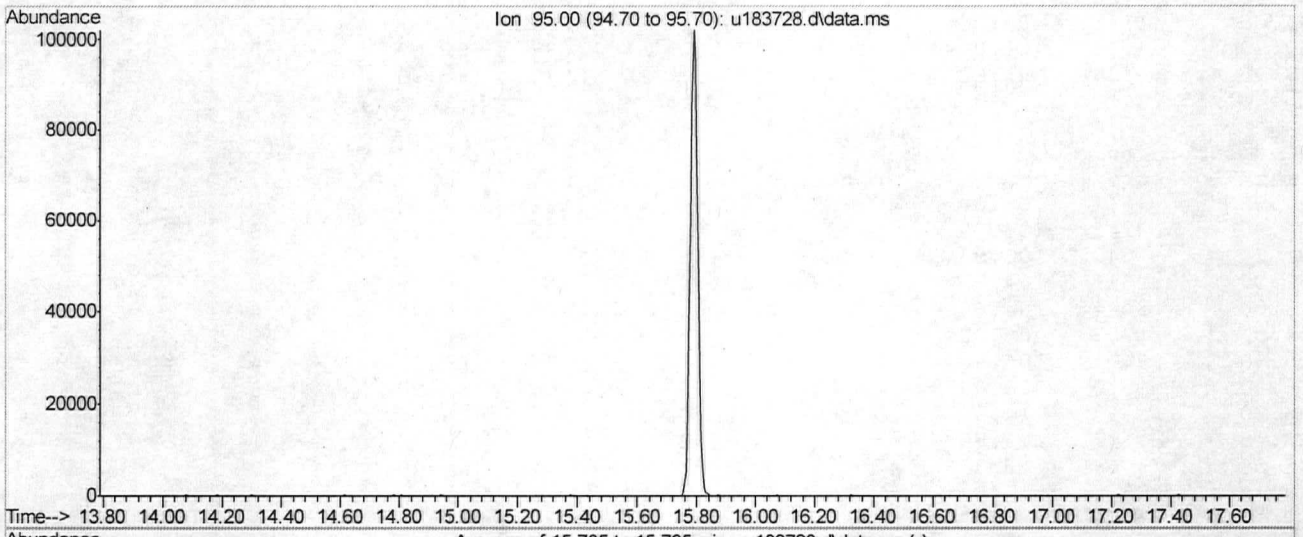
Average of 15.789 to 15.799 min.: U183552.D\data.ms
bfb
Modified:subtracted

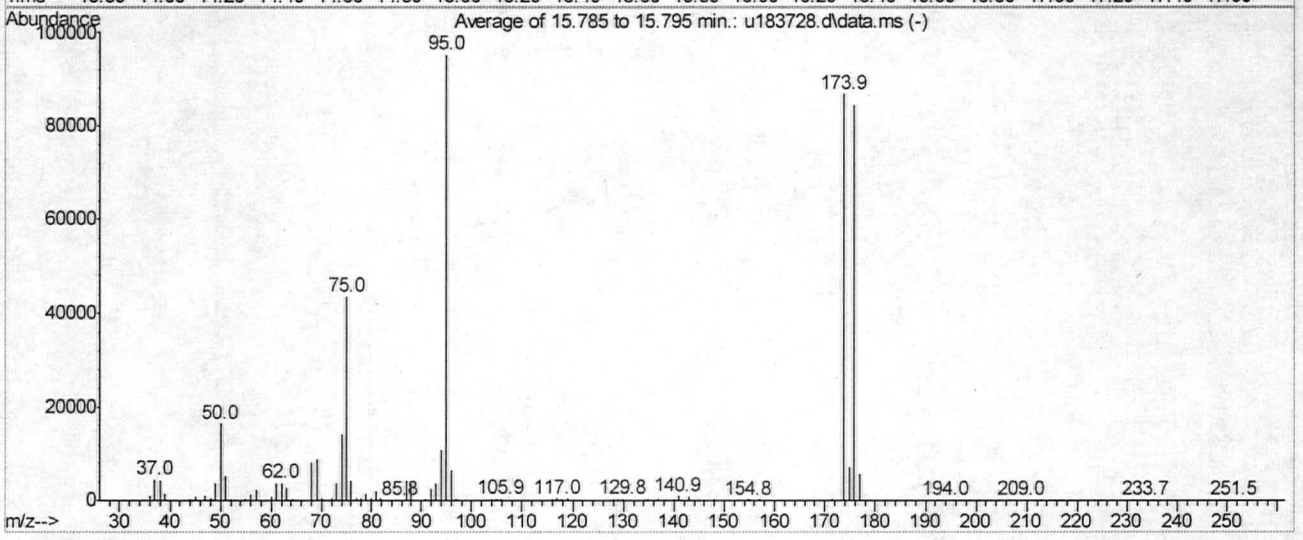
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	170	171.20	73	189.80	52		
154.80	230	171.50	59	207.15	141		
155.00	89	171.90	231	221.70	57		
156.80	77	172.10	172	223.40	56		
158.80	121	173.95	95416	246.20	71		
160.80	51	175.00	7981	253.00	57		
164.80	50	175.90	92421	257.20	63		
167.60	53	176.95	6183	259.30	55		
167.90	53	177.80	61				
170.40	50	178.05	159				
170.80	58	185.90	53				

BFB

Data File : C:\msdchem\1\DATA\u-...vu8476-8479\u183728.d Vial: 46
Acq On : 10 May 2014 9:00 am Operator: conniex
Sample : bfb Inst : MSU
Misc : ms67307,vu8478,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um





AutoFind: Scans 2236, 2237, 2238; Background Corrected with Scan 2227

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	16518	PASS
75	95	30	60	45.7	43557	PASS
95	95	100	100	100.0	95288	PASS
96	95	5	9	6.6	6325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.1	86776	PASS
175	174	5	9	8.2	7116	PASS
176	174	95	101	97.4	84555	PASS
177	176	5	9	6.8	5709	PASS

u183728.d MU8469.M Tue May 20 11:26:35 2014 RPT1

Average of 15.785 to 15.795 min.: u183728.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	881	49.00	3592	62.00	3758	75.00	43557
37.00	4421	50.00	16518	63.00	2798	76.00	4087
38.00	4059	51.00	5238	64.05	245	77.00	598
39.00	1439	52.05	145	66.10	58	78.05	376
39.90	82	54.85	189	66.90	98	78.95	1587
43.95	372	55.10	68	68.00	8039	80.00	553
45.05	738	56.00	1199	69.00	8911	80.90	1900
46.30	74	57.05	2196	69.95	561	81.90	430
47.00	1072	57.90	59	72.00	561	85.80	55
47.95	465	60.05	701	73.00	3606	86.00	60
48.20	148	61.00	3730	74.00	14269	86.95	4219

Average of 15.785 to 15.795 min.: u183728.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	3746	105.60	88	127.80	107	145.75	118
90.95	325	105.90	297	127.95	287	146.90	58
92.00	2412	113.30	60	128.90	142	147.85	248
93.00	3595	114.80	61	129.85	343	148.80	52
94.00	10701	115.10	58	134.90	144	149.00	54
95.00	95288	115.80	78	135.30	69	153.00	64
96.00	6325	115.95	185	136.80	165	154.85	233
96.95	135	116.80	198	140.05	147	156.95	170
103.80	69	116.95	410	140.90	871	158.90	73
103.95	187	117.85	289	141.90	60	160.80	57
104.95	163	118.85	410	142.90	833	164.90	50

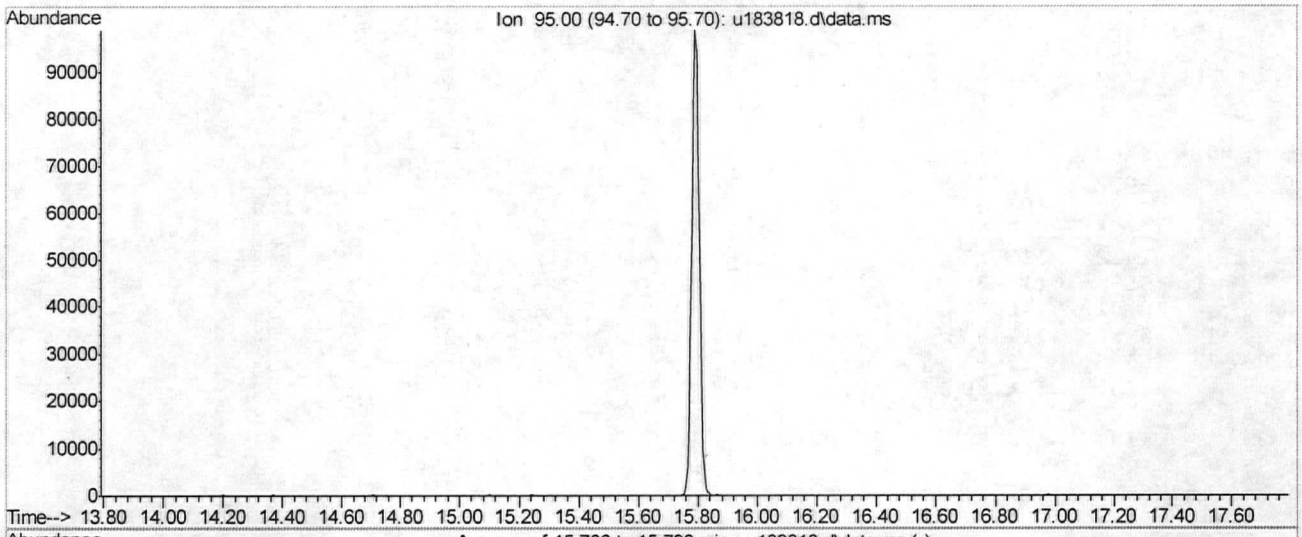
Average of 15.785 to 15.795 min.: u183728.d\data.ms
bfb
Modified:subtracted

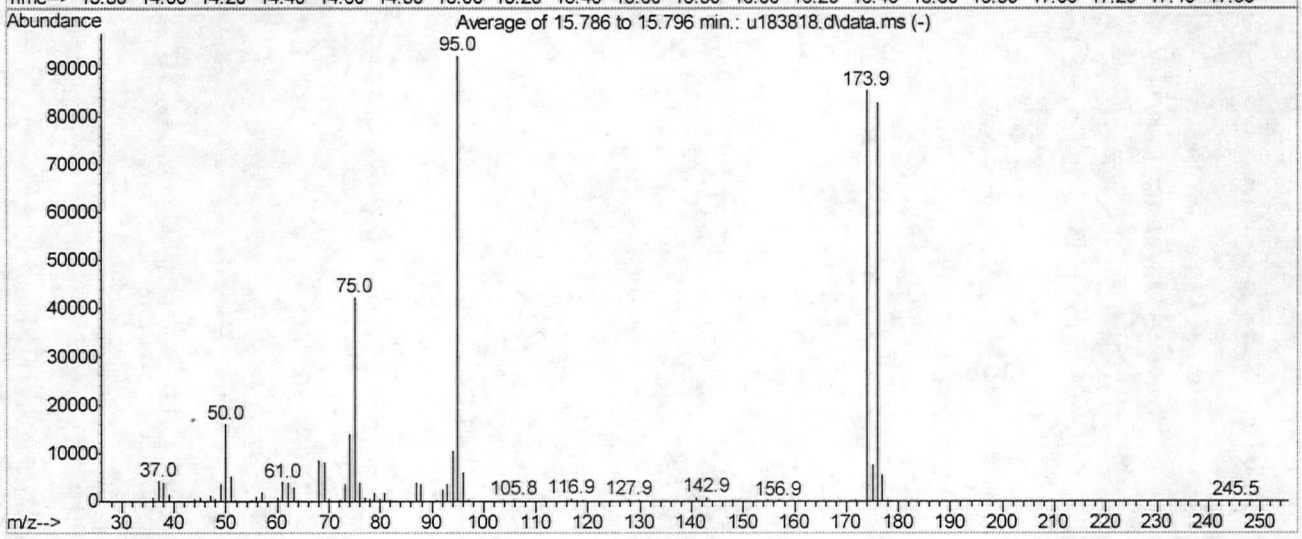
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.10	65	209.00	73				
170.70	63	233.70	52				
171.50	147	251.50	57				
172.00	86						
173.90	86776						
175.00	7116						
175.90	84555						
176.90	5709						
177.90	93						
194.00	51						
207.00	56						

BFB

Data File : C:\msdchem\1\DATA\u-...vu8483-8484\u183818.d Vial: 1
Acq On : 13 May 2014 8:31 am Operator: conniex
Sample : bfb Inst : MSU
Misc : ms67262,vu8483,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um





AutoFind: Scans 2236, 2237, 2238; Background Corrected with Scan 2226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	16049	PASS
75	95	30	60	45.6	42288	PASS
95	95	100	100	100.0	92656	PASS
96	95	5	9	6.5	6002	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	92.2	85397	PASS
175	174	5	9	8.9	7621	PASS
176	174	95	101	97.1	82883	PASS
177	176	5	9	6.7	5527	PASS

u183818.d MU8469.M Wed May 14 13:57:03 2014 RPT1

7.5.3

Average of 15.786 to 15.796 min.: u183818.d\data.ms
bfb
›dified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	800	50.00	16049	68.00	8445	78.05	423
37.05	4250	51.00	5168	69.00	8186	78.90	1749
38.00	3802	51.95	143	69.95	456	79.95	575
39.00	1391	55.05	278	71.10	59	80.90	1679
39.80	59	55.95	1015	71.90	341	81.60	76
40.00	80	57.00	1905	72.10	161	81.90	215
43.95	580	60.00	753	73.00	3668	87.00	3908
45.00	816	61.00	3934	74.00	14091	87.95	3598
47.00	1155	62.00	3694	75.00	42288	91.00	299
47.95	529	63.05	2795	76.00	3755	92.00	2316
49.00	3512	64.00	255	76.95	709	93.00	3553

Average of 15.786 to 15.796 min.: u183818.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	10505	117.95	266	140.90	788	158.00	51
95.00	92656	118.95	322	141.90	56	160.90	89
96.00	6002	122.70	68	142.10	54	171.50	87
96.90	58	127.90	350	142.90	802	171.85	193
97.05	146	128.80	60	145.80	86	173.90	85397
103.80	278	129.80	208	147.95	233	175.00	7621
105.00	55	130.00	102	149.80	56	175.90	82883
105.85	350	130.90	53	153.10	52	176.95	5527
114.70	53	133.00	53	154.85	219	177.95	213
115.85	274	134.80	54	155.10	83	241.80	72
116.90	523	136.80	68	156.95	225	245.50	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183553.D
Acq On : 5 May 2014 6:14 pm
Operator : conniex
Sample : ic8469-0.2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 06 13:08:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:47:02 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.042	65	111073	500.00 ug/L	0.00
5) pentafluorobenzene	10.265	168	264168	50.00 ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	380699	50.00 ug/L	0.00
96) chlorobenzene-d5	14.511	117	370337	50.00 ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	236009	50.00 ug/L	0.00

System Monitoring Compounds					
56) dibromofluoromethane (s)	0.000	113	0d	0.00 ug/L	
Spiked Amount 50.000	Range 79 - 120		Recovery	= 0.00%#	
57) 1,2-dichloroethane-d4 (s)	10.746	65	485	0.20 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery	= 0.40%#	
88) toluene-d8 (s)	0.000	98	0d	0.00 ug/L	
Spiked Amount 50.000	Range 78 - 119		Recovery	= 0.00%#	
114) 4-bromofluorobenzene (s)	0.000	95	0d	0.00 ug/L	
Spiked Amount 50.000	Range 74 - 119		Recovery	= 0.00%#	

Target Compounds					Qvalue
15) chloromethane	4.851	50	512	0.19 ug/L #	50
43) chloroprene	9.145	53	654	0.21 ug/L	70
44) acrylonitrile	8.434	53	653	0.79 ug/L #	68
47) 2,2-dichloropropane	9.778	77	640	0.18 ug/L #	31
63) iso-octane	10.829	57	1214	0.17 ug/L	78
70) 1,1-dichloropropene	10.552	75	510	0.17 ug/L #	40
72) benzene	10.829	78	1715	0.19 ug/L	75
75) 1,2-dichloroethane	10.835	62	561	0.18 ug/L #	49
78) trichloroethene	11.515	95	423	0.18 ug/L #	52
79) methylcyclohexane	11.755	83	648	0.18 ug/L	88
83) 1,2-dichloropropane	11.797	63	410	0.18 ug/L #	1
87) cis-1,3-dichloropropene	12.550	75	864	0.22 ug/L #	75
90) toluene	12.958	92	1043	0.18 ug/L	91
92) trans-1,3-dichloropropene	13.146	75	861	0.23 ug/L #	60
102) 1,2-dibromoethane	14.036	107	525	0.22 ug/L	72
105) chlorobenzene	14.543	112	1633	0.23 ug/L	94
106) 1,1,1,2-tetrachloroethane	14.611	131	536	0.19 ug/L #	63
107) ethylbenzene	14.611	91	2141	0.18 ug/L	91
108) m,p-xylene	14.721	106	1766	0.39 ug/L #	67
109) o-xylene	15.202	106	1046	0.23 ug/L #	37
110) styrene	15.197	104	1260	0.17 ug/L	95
113) isopropylbenzene	15.573	105	2356	0.19 ug/L	92
116) 1,1,2,2-tetrachloroethane	15.897	83	796	0.23 ug/L	72
119) n-propylbenzene	16.028	91	2539	0.18 ug/L	93
121) 4-chlorotoluene	16.295	91	1741	0.19 ug/L	97
123) 1,3,5-trimethylbenzene	16.190	105	2092	0.19 ug/L	85
124) tert-butylbenzene	16.588	119	1859	0.19 ug/L	82
125) pentachloroethane	16.661	167	404	0.18 ug/L #	24
126) 1,2,4-trimethylbenzene	16.640	105	2119	0.19 ug/L	84
128) sec-butylbenzene	16.828	105	2352	0.16 ug/L	83
129) 1,3-dichlorobenzene	17.027	146	1570	0.22 ug/L	89
130) p-isopropyltoluene	16.949	119	2324	0.18 ug/L	96
131) 1,4-dichlorobenzene	17.127	146	1535	0.21 ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183553.D
Acq On : 5 May 2014 6:14 pm
Operator : conniex
Sample : ic8469-0.2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 06 13:08:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:47:02 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
133) 1,2-dichlorobenzene	17.555	146	1495	0.21 ug/L	84
135) n-butylbenzene	17.414	92	1111	0.18 ug/L #	74
138) 1,3,5-trichlorobenzene	18.622	180	1108	0.19 ug/L	92
139) 1,2,4-trichlorobenzene	19.360	180	1095	0.21 ug/L	79
140) hexachlorobutadiene	19.485	225	625	0.22 ug/L #	42
141) naphthalene	19.689	128	2585	0.24 ug/L	85
143) 1,2,3-trichlorobenzene	19.972	180	1001	0.23 ug/L #	55

(#) = qualifier out of range (m) = manual integration (+) = signals summed

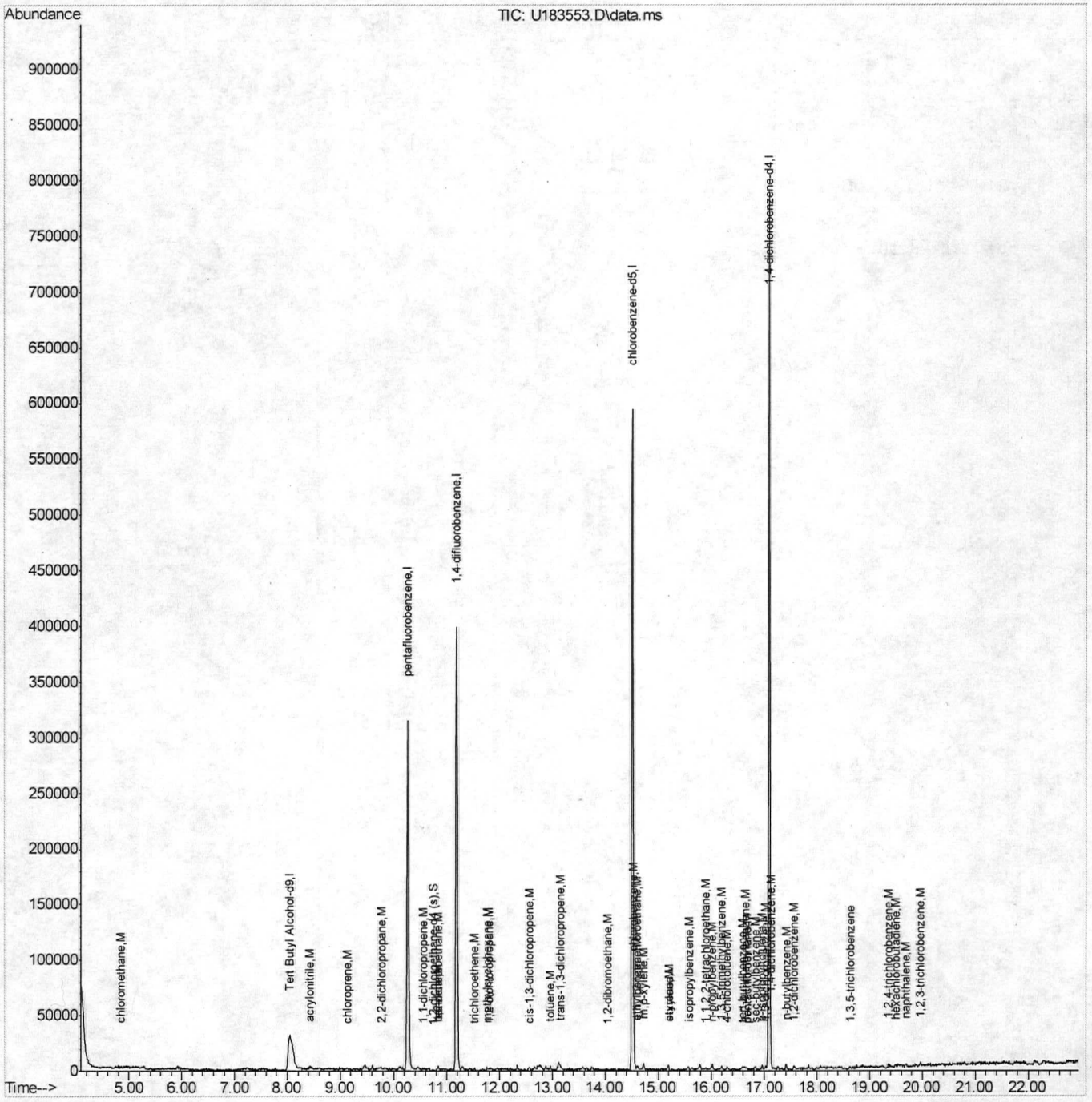
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183553.D
Acq On : 5 May 2014 6:14 pm
Operator : conniex
Sample : ic8469-0.2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 06 13:08:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:47:02 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183554.D
Acq On : 5 May 2014 6:43 pm
Operator : conniex
Sample : ic8469-0.5
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 06 12:18:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:46:04 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.047	65	112744	500.00	ug/L	0.00
5) pentafluorobenzene	10.265	168	264269	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	379803	50.00	ug/L	0.00
96) chlorobenzene-d5	14.512	117	368863	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	239942	50.00	ug/L	0.00

System Monitoring Compounds						
56) dibromofluoromethane (s)	10.322	113	1274	0.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery	=	1.18%#	
57) 1,2-dichloroethane-d4 (s)	10.736	65	1023	0.41	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery	=	0.82%#	
88) toluene-d8 (s)	12.875	98	3719	0.46	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery	=	0.92%#	
114) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 74 - 119		Recovery	=	0.00%#	

Target Compounds						Qvalue
15) chloromethane	4.857	50	1606	0.59	ug/L	85
18) bromomethane	5.856	94	1013	0.56	ug/L	93
24) 2-CHLOROPROPANE	7.153	43	1785	0.48	ug/L #	73
28) 1,1-dichloroethene	7.388	96	1204	0.55	ug/L #	50
32) iodomethane	7.665	142	1915	0.44	ug/L	88
33) carbon disulfide	7.786	76	3651	0.49	ug/L	72
35) methylene chloride	8.094	84	1042	0.43	ug/L	89
36) methyl acetate	7.901	43	946	0.55	ug/L #	71
37) methyl tert butyl ether	8.429	73	3400	0.46	ug/L	84
38) trans-1,2-dichloroethene	8.455	96	1418	0.64	ug/L #	67
39) di-isopropyl ether	9.010	45	3482	0.49	ug/L	89
40) ethyl tert-butyl ether	9.480	59	3619	0.49	ug/L	91
42) 1,1-dichloroethane	9.025	63	1917	0.47	ug/L	89
43) chloroprene	9.130	53	1513	0.48	ug/L	88
44) acrylonitrile	8.434	53	1652	1.95	ug/L	92
47) 2,2-dichloropropane	9.768	77	1785	0.50	ug/L	78
51) bromochloromethane	10.050	128	689	0.50	ug/L #	40
54) tert-butyl Formate	10.176	59	945	0.46	ug/L #	81
58) freon 113	7.362	151	741	0.42	ug/L	78
59) methacrylonitrile	10.035	41	752	0.51	ug/L #	28
60) 1,1,1-trichloroethane	10.375	97	1802	0.48	ug/L	90
62) tert-amyl methyl ether	10.856	87	889	0.51	ug/L #	26
63) iso-octane	10.824	57	3196	0.44	ug/L	85
66) epichlorohydrin	12.451	57	740	3.01	ug/L	53
67) n-butyl alcohol	11.290	56	1660	25.37	ug/L	81
69) carbon tetrachloride	10.579	117	1451	0.42	ug/L #	70
70) 1,1-dichloropropene	10.553	75	1326	0.43	ug/L	83
72) benzene	10.819	78	3978	0.44	ug/L	100
74) isopropyl acetate	10.736	43	2051	0.49	ug/L #	61
75) 1,2-dichloroethane	10.840	62	1425	0.45	ug/L #	41
78) trichloroethene	11.525	95	1075	0.45	ug/L	93
79) methylcyclohexane	11.766	83	1700	0.47	ug/L	88
80) 2-nitropropane	12.336	41	413	0.44	ug/L #	3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183554.D
Acq On : 5 May 2014 6:43 pm
Operator : conniex
Sample : ic8469-0.5
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 06 12:18:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:46:04 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
81) 2-chloroethyl vinyl ether	12.326	63	2392	2.18 ug/L	89
82) methyl methacrylate	11.787	100	250	0.36 ug/L #	3
83) 1,2-dichloropropane	11.797	63	1072	0.47 ug/L	81
86) bromodichloromethane	12.090	83	1989	0.60 ug/L	80
87) cis-1,3-dichloropropene	12.561	75	1459	0.37 ug/L	92
90) toluene	12.953	92	2486	0.42 ug/L	95
92) trans-1,3-dichloropropene	13.152	75	1597	0.41 ug/L	95
94) 1,1,2-trichloroethane	13.382	83	721	0.39 ug/L	87
95) 2-hexanone	13.581	58	509	0.54 ug/L	80
98) tetrachloroethene	13.586	164	1014	0.43 ug/L #	58
99) 1,3-dichloropropane	13.586	76	1933	0.53 ug/L	90
100) butyl acetate	13.649	56	780	0.52 ug/L #	80
101) dibromochloromethane	13.863	129	1327	0.46 ug/L	77
102) 1,2-dibromoethane	14.046	107	1131	0.47 ug/L	80
105) chlorobenzene	14.548	112	3270	0.46 ug/L	95
106) 1,1,1,2-tetrachloroethane	14.611	131	1297	0.46 ug/L	94
107) ethylbenzene	14.611	91	5432	0.46 ug/L	95
108) m,p-xylene	14.726	106	4062	0.89 ug/L	81
109) o-xylene	15.186	106	2007	0.43 ug/L #	72
110) styrene	15.197	104	3109	0.40 ug/L	87
111) bromoform	15.485	173	980	0.44 ug/L	80
113) isopropylbenzene	15.568	105	5617	0.43 ug/L	90
115) bromobenzene	16.018	156	1647	0.45 ug/L #	56
116) 1,1,2,2-tetrachloroethane	15.908	83	1640	0.46 ug/L	73
118) 1,2,3-trichloropropane	15.987	110	362	0.35 ug/L #	56
119) n-propylbenzene	16.028	91	6365	0.45 ug/L	92
120) 2-chlorotoluene	16.191	126	1395	0.43 ug/L #	74
121) 4-chlorotoluene	16.295	91	3971	0.42 ug/L	91
123) 1,3,5-trimethylbenzene	16.185	105	4403	0.39 ug/L	87
124) tert-butylbenzene	16.588	119	4313	0.42 ug/L	88
125) pentachloroethane	16.672	167	959	0.41 ug/L	79
126) 1,2,4-trimethylbenzene	16.630	105	4738	0.42 ug/L	86
128) sec-butylbenzene	16.823	105	6204	0.42 ug/L	98
129) 1,3-dichlorobenzene	17.033	146	3360	0.46 ug/L	90
130) p-isopropyltoluene	16.949	119	5162	0.39 ug/L	87
131) 1,4-dichlorobenzene	17.116	146	3545	0.47 ug/L	89
132) benzyl chloride	17.247	91	3702	0.52 ug/L	95
133) 1,2-dichlorobenzene	17.556	146	3406	0.47 ug/L	94
135) n-butylbenzene	17.409	92	2834	0.45 ug/L #	82
138) 1,3,5-trichlorobenzene	18.617	180	2647	0.44 ug/L	99
139) 1,2,4-trichlorobenzene	19.360	180	2506	0.48 ug/L #	73
140) hexachlorobutadiene	19.486	225	1474	0.52 ug/L	91
141) naphthalene	19.690	128	4893	0.45 ug/L	80
143) 1,2,3-trichlorobenzene	19.967	180	2078	0.47 ug/L	89
144) hexachloroethane	17.849	201	820	0.35 ug/L #	68

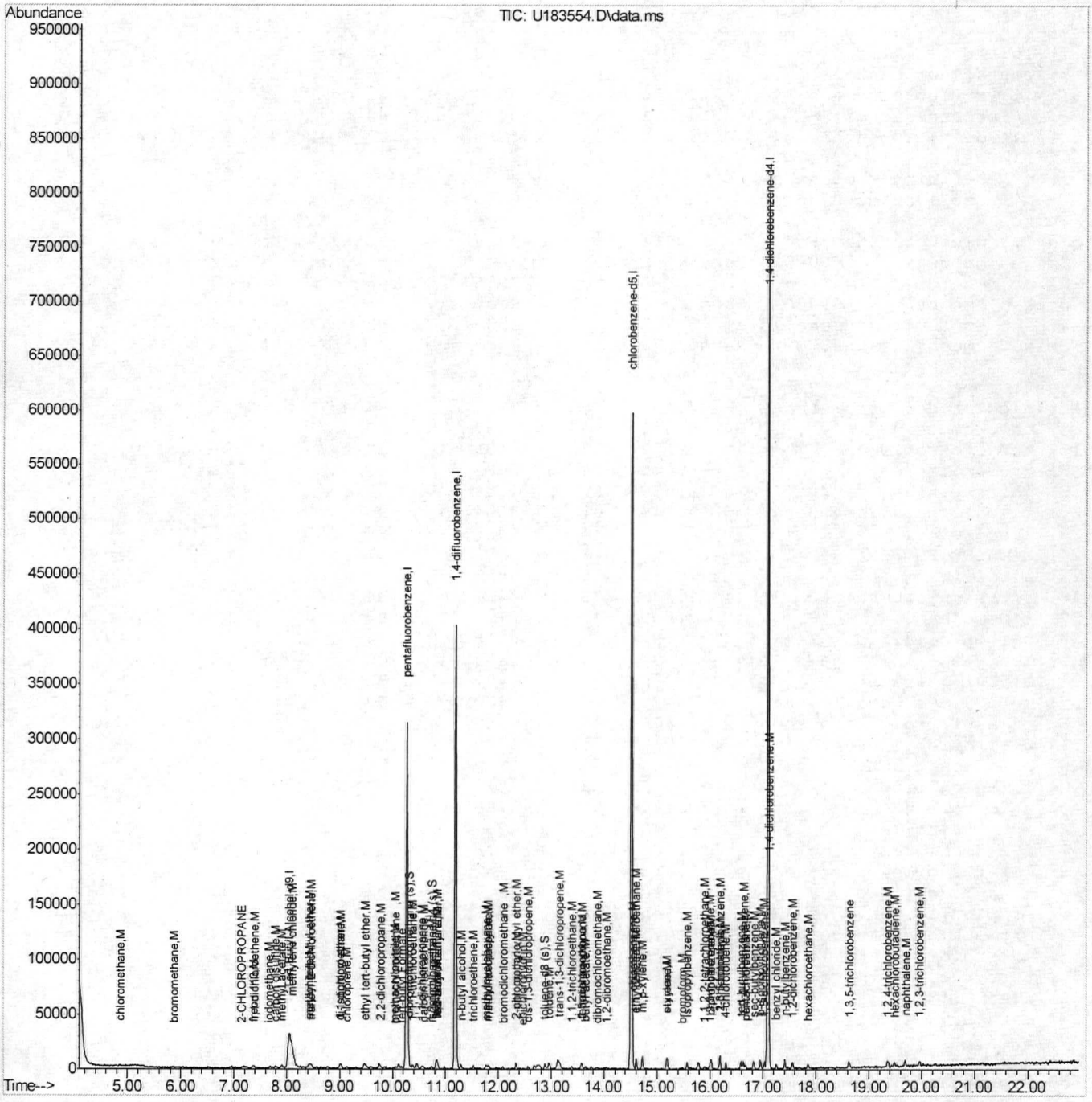
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183554.D
Acq On : 5 May 2014 6:43 pm
Operator : conniex
Sample : ic8469-0.5
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 06 12:18:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 08:46:04 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183555.D
Acq On : 5 May 2014 7:12 pm
Operator : conniex
Sample : ic8469-1
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:47:54 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.073	65	130090	500.00 ug/L	0.03
5) pentafluorobenzene	10.265	168	260844	50.00 ug/L	0.00
64) 1,4-difluorobenzene	11.180	114	370604	50.00 ug/L	0.00
96) chlorobenzene-d5	14.511	117	360455	50.00 ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	234858	50.00 ug/L	0.00

System Monitoring Compounds					
56) dibromofluoromethane (s)	10.317	113	2083	0.98 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery	= 1.96%#	
57) 1,2-dichloroethane-d4 (s)	10.751	65	2314	0.96 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery	= 1.92%#	
88) toluene-d8 (s)	12.880	98	7036	0.88 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery	= 1.76%#	
114) 4-bromofluorobenzene (s)	15.793	95	3538	1.02 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery	= 2.04%#	

Target Compounds					Qvalue
12) dichlorodifluoromethane	4.491	85	2302	0.84 ug/L #	48
15) chloromethane	4.851	50	2697	0.99 ug/L	86
16) vinyl chloride	5.139	62	3005	1.10 ug/L	91
18) bromomethane	5.845	94	2003	1.13 ug/L	73
19) chloroethane	6.039	64	1054	0.88 ug/L	62
20) trichlorofluoromethane	6.546	101	3654	0.95 ug/L	76
23) ethyl ether	6.954	74	1098	0.92 ug/L #	79
24) 2-CHLOROPROPANE	7.158	43	3553	0.97 ug/L #	68
27) acrolein	7.215	56	3810	8.63 ug/L	93
28) 1,1-dichloroethene	7.378	96	2221	1.04 ug/L #	65
32) iodomethane	7.665	142	3784	0.90 ug/L	89
33) carbon disulfide	7.791	76	6918	0.94 ug/L	94
35) methylene chloride	8.094	84	2374	1.00 ug/L #	76
36) methyl acetate	7.885	43	1401	0.82 ug/L #	72
37) methyl tert butyl ether	8.424	73	7620	1.09 ug/L	93
38) trans-1,2-dichloroethene	8.471	96	2120	0.90 ug/L	84
39) di-isopropyl ether	9.015	45	6772	1.00 ug/L	98
40) ethyl tert-butyl ether	9.464	59	6883	0.94 ug/L	95
42) 1,1-dichloroethane	9.041	63	3542	0.91 ug/L	95
43) chloroprene	9.140	53	2769	0.89 ug/L	85
44) acrylonitrile	8.445	53	3982	4.99 ug/L	83
47) 2,2-dichloropropane	9.768	77	3276	0.94 ug/L	77
48) cis-1,2-dichloroethene	9.773	96	2762	1.07 ug/L #	69
49) methyl acrylate	9.820	55	2362	0.95 ug/L	90
50) propionitrile	9.846	54	2743	8.48 ug/L	65
51) bromochloromethane	10.071	128	1405	1.04 ug/L #	77
53) chloroform	10.113	83	4969	1.13 ug/L	94
54) tert-butyl Formate	10.165	59	1742	0.87 ug/L #	82
58) freon 113	7.336	151	1364	0.80 ug/L #	55
59) methacrylonitrile	10.019	41	1359	0.92 ug/L	92
60) 1,1,1-trichloroethane	10.390	97	3398	0.94 ug/L	89
62) tert-amyl methyl ether	10.850	87	1437	0.83 ug/L #	81
63) iso-octane	10.819	57	6054	0.86 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183555.D
Acq On : 5 May 2014 7:12 pm
Operator : conniex
Sample : ic8469-1
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:47:54 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
66) epichlorohydrin	12.467	57	1278	5.20 ug/L	53
67) n-butyl alcohol	11.305	56	3554	55.58 ug/L	91
68) Cyclohexane	10.463	84	2751	0.80 ug/L	96
69) carbon tetrachloride	10.584	117	2686	0.82 ug/L	78
70) 1,1-dichloropropene	10.552	75	2752	0.94 ug/L	90
72) benzene	10.824	78	8383	0.97 ug/L	99
73) heptane	10.981	57	1163	0.86 ug/L #	76
74) isopropyl acetate	10.735	43	3726	0.95 ug/L #	64
75) 1,2-dichloroethane	10.829	62	2952	0.97 ug/L	91
78) trichloroethene	11.515	95	2195	0.95 ug/L #	73
79) methylcyclohexane	11.760	83	2772	0.80 ug/L	96
81) 2-chloroethyl vinyl ether	12.331	63	4357	4.08 ug/L	95
82) methyl methacrylate	11.787	100	779	1.20 ug/L #	1
83) 1,2-dichloropropane	11.802	63	2159	0.98 ug/L	75
85) dibromomethane	11.964	93	1403	1.00 ug/L #	84
86) bromodichloromethane	12.085	83	3004	0.91 ug/L	83
87) cis-1,3-dichloropropene	12.566	75	3518	0.92 ug/L	91
89) 4-methyl-2-pentanone	12.681	58	895	0.98 ug/L #	68
90) toluene	12.953	92	5417	0.97 ug/L	84
91) 3-methyl-1-butanol	12.676	55	2464	23.61 ug/L	95
92) trans-1,3-dichloropropene	13.157	75	3613	0.97 ug/L	82
94) 1,1,2-trichloroethane	13.382	83	1760	1.02 ug/L	78
95) 2-hexanone	13.586	58	936	1.02 ug/L #	57
97) cyclohexanone	15.782	55	4068	11.15 ug/L	88
98) tetrachloroethene	13.570	164	2223	1.00 ug/L	89
99) 1,3-dichloropropane	13.591	76	3290	0.92 ug/L	99
100) butyl acetate	13.654	56	1433	0.94 ug/L #	74
101) dibromochloromethane	13.863	129	2545	0.91 ug/L	93
102) 1,2-dibromoethane	14.041	107	2166	0.92 ug/L	87
103) 3,3-dimethyl-1-Butanol	13.753	57	2566	13.02 ug/L #	99
105) chlorobenzene	14.548	112	6853	0.98 ug/L	95
106) 1,1,1,2-tetrachloroethane	14.611	131	2638	0.97 ug/L	87
107) ethylbenzene	14.611	91	10652	0.95 ug/L	95
108) m,p-xylene	14.726	106	8300	1.89 ug/L	97
109) o-xylene	15.191	106	4204	0.92 ug/L	96
110) styrene	15.197	104	6661	0.91 ug/L	95
111) bromoform	15.484	173	2123	0.98 ug/L	91
113) isopropylbenzene	15.573	105	10887	0.88 ug/L	98
115) bromobenzene	16.013	156	3355	0.97 ug/L	91
116) 1,1,2,2-tetrachloroethane	15.903	83	3705	1.05 ug/L	92
117) trans-1,4-dichloro-2-b...	15.945	53	981	1.06 ug/L #	61
118) 1,2,3-trichloropropane	15.997	110	995	1.04 ug/L	86
119) n-propylbenzene	16.028	91	12002	0.88 ug/L	98
120) 2-chlorotoluene	16.190	126	2714	0.87 ug/L	96
121) 4-chlorotoluene	16.300	91	8282	0.91 ug/L	97
123) 1,3,5-trimethylbenzene	16.190	105	9548	0.89 ug/L	81
124) tert-butylbenzene	16.588	119	8640	0.89 ug/L	94
125) pentachloroethane	16.672	167	1923	0.87 ug/L	94
126) 1,2,4-trimethylbenzene	16.635	105	10100	0.93 ug/L	89
128) sec-butylbenzene	16.823	105	12360	0.89 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183555.D
Acq On : 5 May 2014 7:12 pm
Operator : conniex
Sample : ic8469-1
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:47:54 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
129) 1,3-dichlorobenzene	17.027	146	6644	0.93 ug/L	91
130) p-isopropyltoluene	16.954	119	11303	0.91 ug/L	98
131) 1,4-dichlorobenzene	17.116	146	7455	1.01 ug/L	91
132) benzyl chloride	17.252	91	6714	0.92 ug/L	99
133) 1,2-dichlorobenzene	17.555	146	6967	0.98 ug/L	85
135) n-butylbenzene	17.414	92	5329	0.88 ug/L	98
137) 1,2-dibromo-3-chloropr...	18.418	157	969	1.13 ug/L #	54
138) 1,3,5-trichlorobenzene	18.622	180	5372	0.92 ug/L	94
139) 1,2,4-trichlorobenzene	19.355	180	4852	0.95 ug/L	95
140) hexachlorobutadiene	19.491	225	2462	0.87 ug/L	91
141) naphthalene	19.689	128	10861	1.01 ug/L	96
143) 1,2,3-trichlorobenzene	19.967	180	4011	0.91 ug/L	92
144) hexachloroethane	17.854	201	2063	0.93 ug/L	95

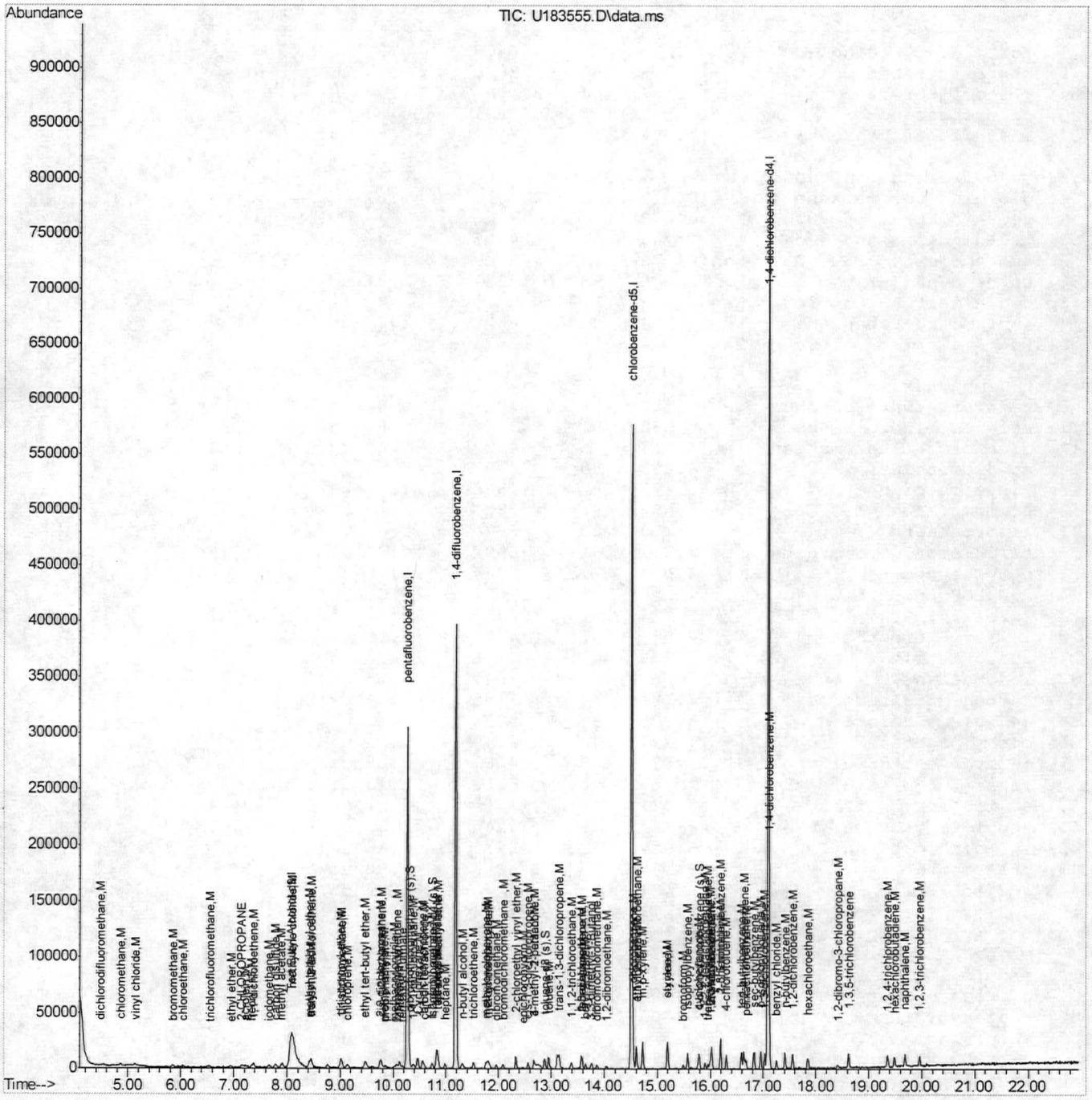
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.3 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183555.D
Acq On : 5 May 2014 7:12 pm
Operator : conniex
Sample : ic8469-1
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 12:34:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:47:54 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183556.D
Acq On : 5 May 2014 7:41 pm
Operator : conniex
Sample : ic8469-2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 10:46:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:37:06 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.016	65	96378	500.00 ug/L	-0.03
5) pentafluorobenzene	10.265	168	263820	50.00 ug/L	0.00
64) 1,4-difluorobenzene	11.181	114	374996	50.00 ug/L	0.00
96) chlorobenzene-d5	14.512	117	365629	50.00 ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.091	152	232622	50.00 ug/L	0.00

System Monitoring Compounds					
56) dibromofluoromethane (s)	10.312	113	4215	1.97 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 3.94%#		
57) 1,2-dichloroethane-d4 (s)	10.741	65	4905	2.01 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 4.02%#		
88) toluene-d8 (s)	12.875	98	14557	1.81 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 3.62%#		
114) 4-bromofluorobenzene (s)	15.794	95	6322	1.85 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 3.70%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.142	59	1898	9.04 ug/L #	55
11) chlorodifluoromethane	4.533	51	3876	1.86 ug/L	97
12) dichlorodifluoromethane	4.517	85	4522	1.63 ug/L #	48
15) chloromethane	4.863	50	4792	1.74 ug/L	94
16) vinyl chloride	5.129	62	4586	1.66 ug/L	92
18) bromomethane	5.856	94	3359	1.87 ug/L	95
19) chloroethane	6.050	64	2276	1.87 ug/L	86
20) trichlorofluoromethane	6.531	101	6802	1.75 ug/L	91
23) ethyl ether	6.934	74	2284	1.90 ug/L	82
24) 2-CHLOROPROPANE	7.159	43	7692	2.07 ug/L #	94
27) acrolein	7.227	56	8775	19.94 ug/L	94
28) 1,1-dichloroethene	7.383	96	4581	2.12 ug/L	95
31) acetonitrile	7.907	40	3206	19.40 ug/L	97
32) iodomethane	7.666	142	8647	2.03 ug/L	91
33) carbon disulfide	7.791	76	15165	2.04 ug/L	98
35) methylene chloride	8.105	84	5091	2.12 ug/L	84
36) methyl acetate	7.891	43	3147	1.82 ug/L #	68
37) methyl tert butyl ether	8.424	73	14782	2.08 ug/L	100
38) trans-1,2-dichloroethene	8.466	96	5110	2.13 ug/L #	75
39) di-isopropyl ether	9.021	45	13762	2.01 ug/L	77
40) ethyl tert-butyl ether	9.481	59	14346	1.95 ug/L	95
42) 1,1-dichloroethane	9.031	63	8575	2.18 ug/L	94
43) chloroprene	9.136	53	5663	1.80 ug/L	93
44) acrylonitrile	8.424	53	8270	10.24 ug/L	94
47) 2,2-dichloropropane	9.779	77	7264	2.05 ug/L	96
48) cis-1,2-dichloroethene	9.753	96	5732	2.20 ug/L	80
49) methyl acrylate	9.826	55	4624	1.83 ug/L	93
50) propionitrile	9.847	54	6358	19.57 ug/L	95
51) bromochloromethane	10.056	128	2772	2.02 ug/L #	86
52) tetrahydrofuran	10.098	42	1669	2.19 ug/L	75
53) chloroform	10.119	83	10176	2.28 ug/L	97
54) tert-butyl Formate	10.176	59	3488	1.73 ug/L #	94
58) freon 113	7.352	151	2996	1.74 ug/L #	62

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183556.D
Acq On : 5 May 2014 7:41 pm
Operator : conniex
Sample : ic8469-2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 10:46:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:37:06 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
59) methacrylonitrile	10.019	41	3051	2.05 ug/L	97
60) 1,1,1-trichloroethane	10.391	97	7652	2.09 ug/L	86
62) tert-amyl methyl ether	10.851	87	3509	2.01 ug/L #	51
63) iso-octane	10.820	57	12744	1.80 ug/L	94
66) epichlorohydrin	12.472	57	2340	9.41 ug/L	87
67) n-butyl alcohol	11.285	56	5610	86.69 ug/L	98
68) Cyclohexane	10.448	84	7012	2.02 ug/L #	66
69) carbon tetrachloride	10.579	117	7269	2.19 ug/L	93
70) 1,1-dichloropropene	10.542	75	6213	2.10 ug/L	92
72) benzene	10.825	78	18817	2.15 ug/L	95
73) heptane	10.977	57	2468	1.81 ug/L	80
74) isopropyl acetate	10.731	43	7968	2.00 ug/L	94
75) 1,2-dichloroethane	10.825	62	6567	2.14 ug/L	87
78) trichloroethene	11.521	95	5017	2.16 ug/L #	78
79) methylcyclohexane	11.761	83	6673	1.89 ug/L	98
80) 2-nitropropane	12.336	41	1761	1.92 ug/L #	52
81) 2-chloroethyl vinyl ether	12.336	63	9461	8.75 ug/L	90
82) methyl methacrylate	11.787	100	1318	2.00 ug/L #	49
83) 1,2-dichloropropane	11.808	63	4618	2.07 ug/L	94
84) propyl acetate	11.840	73	813	1.82 ug/L	91
85) dibromomethane	11.960	93	3240	2.29 ug/L	89
86) bromodichloromethane	12.085	83	6457	1.94 ug/L	98
87) cis-1,3-dichloropropene	12.567	75	7754	2.01 ug/L	93
89) 4-methyl-2-pentanone	12.671	58	1855	2.00 ug/L	97
90) toluene	12.954	92	11446	2.02 ug/L	98
91) 3-methyl-1-butanol	12.671	55	4176	39.53 ug/L	95
92) trans-1,3-dichloropropene	13.158	75	7079	1.87 ug/L	94
93) ethyl methacrylate	13.142	69	6246	2.06 ug/L	81
94) 1,1,2-trichloroethane	13.388	83	3666	2.09 ug/L	98
95) 2-hexanone	13.581	58	1830	1.98 ug/L	94
97) cyclohexanone	15.773	55	6697	18.10 ug/L	87
98) tetrachloroethene	13.571	164	4699	2.09 ug/L	92
99) 1,3-dichloropropane	13.586	76	7167	1.97 ug/L	98
100) butyl acetate	13.649	56	2810	1.82 ug/L	87
101) dibromochloromethane	13.864	129	5498	1.94 ug/L	94
102) 1,2-dibromoethane	14.047	107	4700	1.96 ug/L	91
103) 3,3-dimethyl-1-Butanol	13.754	57	4168	20.84 ug/L #	98
105) chlorobenzene	14.549	112	14016	1.97 ug/L	93
106) 1,1,1,2-tetrachloroethane	14.606	131	5739	2.07 ug/L	98
107) ethylbenzene	14.606	91	23204	2.03 ug/L	96
108) m,p-xylene	14.721	106	18086	4.05 ug/L	99
109) o-xylene	15.187	106	9314	2.01 ug/L	95
110) styrene	15.197	104	14656	1.98 ug/L	97
111) bromoform	15.485	173	4523	2.06 ug/L	79
113) isopropylbenzene	15.569	105	25054	2.04 ug/L	97
115) bromobenzene	16.013	156	7548	2.20 ug/L	89
116) 1,1,2,2-tetrachloroethane	15.898	83	6979	2.00 ug/L	92
117) trans-1,4-dichloro-2-b...	15.945	53	1739	1.90 ug/L	82
118) 1,2,3-trichloropropane	15.987	110	2196	2.32 ug/L	90
119) n-propylbenzene	16.024	91	27069	2.01 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183556.D
Acq On : 5 May 2014 7:41 pm
Operator : conniex
Sample : ic8469-2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 10:46:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:37:06 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
120) 2-chlorotoluene	16.196	126	6825	2.20 ug/L #	73
121) 4-chlorotoluene	16.296	91	18673	2.08 ug/L	90
123) 1,3,5-trimethylbenzene	16.186	105	22185	2.08 ug/L	93
124) tert-butylbenzene	16.589	119	20117	2.09 ug/L	98
125) pentachloroethane	16.672	167	4466	2.05 ug/L	90
126) 1,2,4-trimethylbenzene	16.630	105	21968	2.03 ug/L	92
128) sec-butylbenzene	16.824	105	29105	2.11 ug/L	97
129) 1,3-dichlorobenzene	17.028	146	14486	2.05 ug/L	94
130) p-isopropyltoluene	16.955	119	25021	2.03 ug/L	98
131) 1,4-dichlorobenzene	17.117	146	14854	2.04 ug/L	92
132) benzyl chloride	17.253	91	13892	1.93 ug/L	88
133) 1,2-dichlorobenzene	17.561	146	14374	2.04 ug/L	93
135) n-butylbenzene	17.415	92	12289	2.05 ug/L	92
137) 1,2-dibromo-3-chloropr...	18.419	157	1524	1.80 ug/L	83
138) 1,3,5-trichlorobenzene	18.623	180	12080	2.10 ug/L	98
139) 1,2,4-trichlorobenzene	19.360	180	10182	2.00 ug/L	97
140) hexachlorobutadiene	19.486	225	5740	2.05 ug/L	92
141) naphthalene	19.690	128	21468	2.01 ug/L	98
143) 1,2,3-trichlorobenzene	19.962	180	8616	1.98 ug/L	96
144) hexachloroethane	17.844	201	4458	2.02 ug/L	98

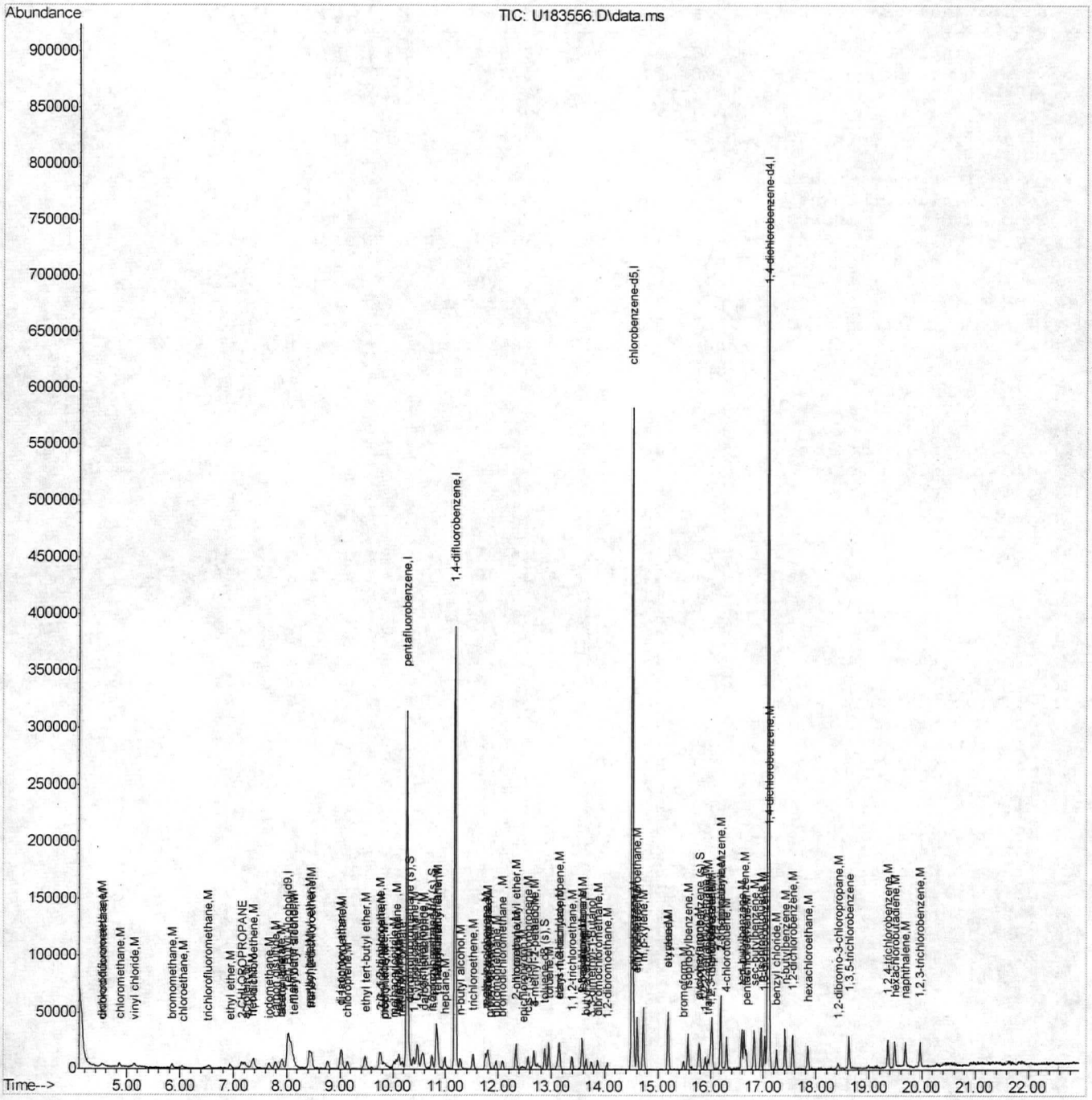
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183556.D
Acq On : 5 May 2014 7:41 pm
Operator : conniex
Sample : ic8469-2
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 10:46:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:37:06 2014
Response via : Initial Calibration



7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : U183557.D
Acq On : 5 May 2014 8:10 pm
Operator : conniex
Sample : ic8469-5
Misc : ms66620,vu8469,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 10:48:14 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 10:34:27 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.068	65	103004	500.00 ug/L	0.03
5) pentafluorobenzene	10.264	168	267983	50.00 ug/L	0.00
64) 1,4-difluorobenzene	11.179	114	378703	50.00 ug/L	0.00
96) chlorobenzene-d5	14.511	117	370705	50.00 ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.090	152	235210	50.00 ug/L	0.00

System Monitoring Compounds					
56) dibromofluoromethane (s)	10.317	113	11187	5.14 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 10.28%#		
57) 1,2-dichloroethane-d4 (s)	10.740	65	13148	5.30 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 10.60%#		
88) toluene-d8 (s)	12.874	98	42389	5.21 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 10.42%#		
114) 4-bromofluorobenzene (s)	15.792	95	17336	5.00 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 10.00%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.172	59	5638	25.10 ug/L #	8
4) 1,4-dioxane	11.933	88	1382	68.33 ug/L #	82
11) chlorodifluoromethane	4.532	51	10207	4.82 ug/L	92
12) dichlorodifluoromethane	4.527	85	14126	5.01 ug/L	94
15) chloromethane	4.861	50	13234	4.73 ug/L	93
16) vinyl chloride	5.139	62	13368	4.77 ug/L	96
18) bromomethane	5.850	94	9197	5.04 ug/L	91
19) chloroethane	6.038	64	6129	4.96 ug/L	94
20) trichlorofluoromethane	6.551	101	19000	4.81 ug/L	88
23) ethyl ether	6.943	74	5825	4.76 ug/L	79
24) 2-CHLOROPROPANE	7.152	43	18306	4.84 ug/L #	91
27) acrolein	7.231	56	20904	46.77 ug/L	92
28) 1,1-dichloroethene	7.388	96	10955	4.99 ug/L	87
29) acetone	7.435	58	1544	5.49 ug/L #	84
30) allyl chloride	7.916	78	1746	4.75 ug/L #	81
31) acetonitrile	7.900	40	7565	45.07 ug/L #	77
32) iodomethane	7.670	142	21670	5.01 ug/L	94
33) carbon disulfide	7.785	76	37501	4.97 ug/L	98
34) 1-CHLOROPROPANE	8.141	63	898	4.57 ug/L #	91
35) methylene chloride	8.094	84	12224	5.00 ug/L	90
36) methyl acetate	7.895	43	8801	5.01 ug/L	86
37) methyl tert butyl ether	8.428	73	36340	5.04 ug/L	98
38) trans-1,2-dichloroethene	8.460	96	12219	5.02 ug/L	90
39) di-isopropyl ether	9.019	45	35245	5.07 ug/L	93
40) ethyl tert-butyl ether	9.469	59	36160	4.83 ug/L	97
41) 2-butanone	9.741	72	1489	4.73 ug/L #	66
42) 1,1-dichloroethane	9.035	63	20977	5.25 ug/L	91
43) chloroprene	9.134	53	15712	4.93 ug/L	98
44) acrylonitrile	8.434	53	21051	25.66 ug/L	90
45) vinyl acetate	9.009	86	1785	4.21 ug/L #	64
46) ethyl acetate	9.736	45	1330	4.20 ug/L	92
47) 2,2-dichloropropane	9.778	77	19151	5.33 ug/L	97
48) cis-1,2-dichloroethene	9.762	96	13030	4.92 ug/L	85