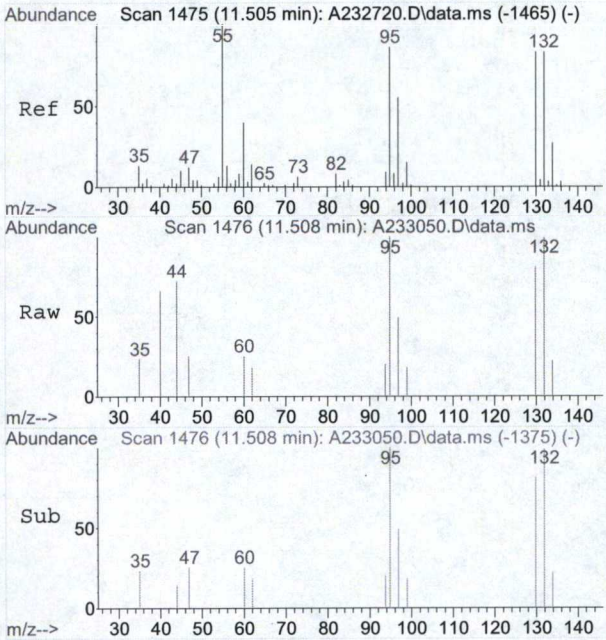
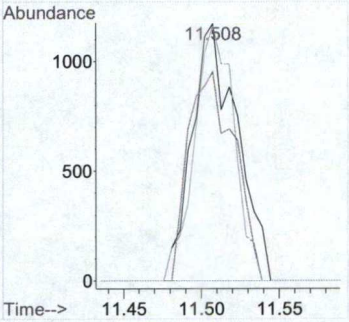


#62
trichloroethene
Concen: 1.17 ug/L
RT: 11.508 min Scan# 1476
Delta R.T. 0.002 min
Lab File: A233050.D
Acq: 18 May 2017 3:05 am

Tgt Ion: 95 Resp: 2350

Ion	Ratio	Lower	Upper
95	100		
130	81.3	66.7	126.7
132	99.4	66.5	126.5



7.1.4

7

SGS ACCUTEST JC43355

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233051.D
Acq On : 18 May 2017 3:34 am
Operator : Gabriela
Sample : jc43355-3
Misc : MS16089,VA8820,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 18 12:00:00 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.844	65	372330	500.00 ug/L	0.00
5) pentafluorobenzene	10.213	168	184624	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.149	114	302544	50.00 ug/L	0.00
74) chlorobenzene-d5	14.554	117	274170	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.153	152	145057	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.234	113	111289	57.14 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 114.28%		
53) 1,2-dichloroethane-d4 (s)	10.673	65	131512	52.49 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 104.98%		
75) toluene-d8 (s)	12.896	98	360702	51.66 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 103.32%		
99) 4-bromofluorobenzene (s)	15.846	95	120265	48.75 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.50%		
Target Compounds					Qvalue
18) 1,1-dichloroethene	7.169	96	1610	0.68 ug/L #	21
31) 1,1-dichloroethane	8.884	63	2197	0.55 ug/L	77
37) cis-1,2-dichloroethene	9.648	96	1103	0.49 ug/L #	69
47) 1,1,1-trichloroethane	10.317	97	115266	29.58 ug/L	95

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

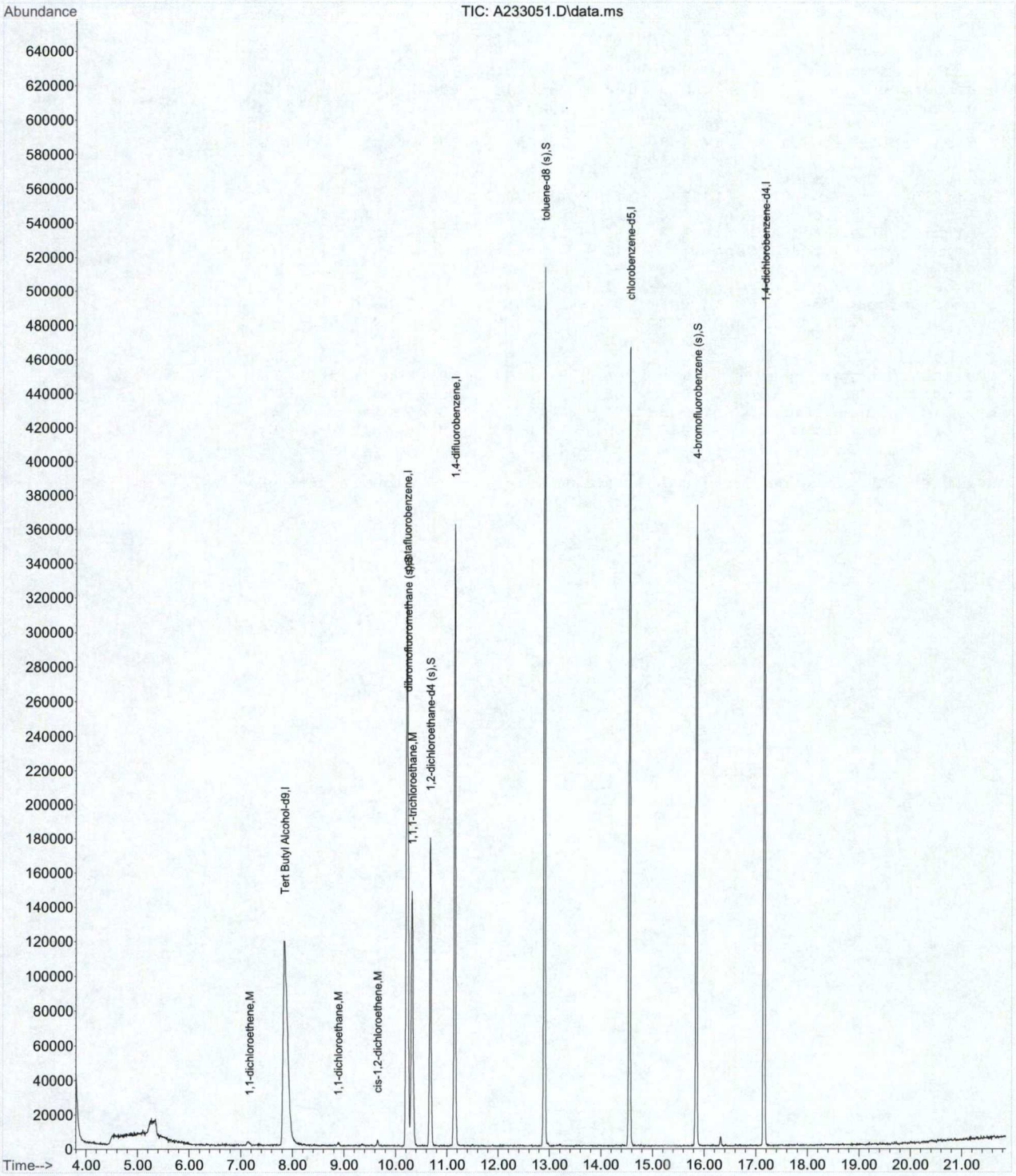
7.1.5

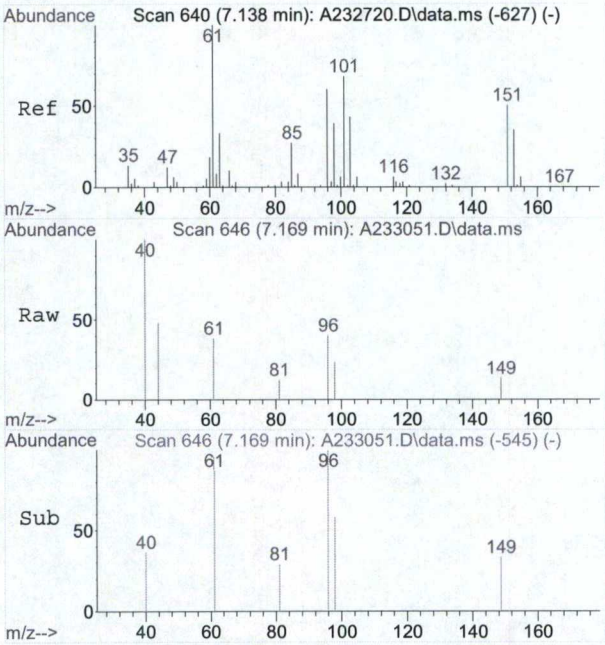
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233051.D
Acq On : 18 May 2017 3:34 am
Operator : Gabriela
Sample : jc43355-3
Misc : MS16089,VA8820,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 18 12:00:00 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

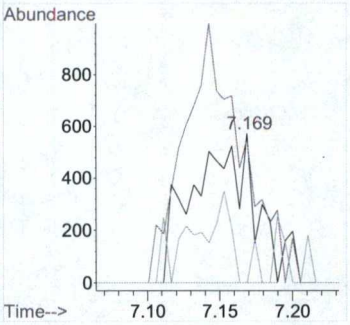


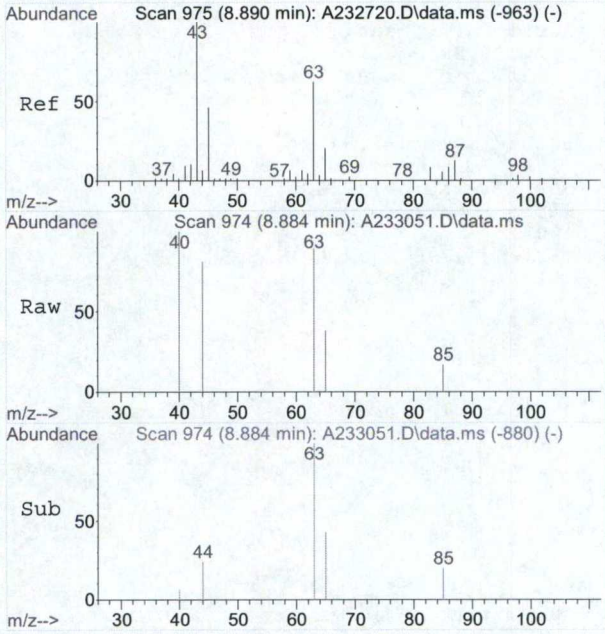


#18
1,1-dichloroethene
Concen: 0.68 ug/L
RT: 7.169 min Scan# 646
Delta R.T. 0.031 min
Lab File: A233051.D
Acq: 18 May 2017 3:34 am

Tgt Ion: 96 Resp: 1610

Ion	Ratio	Lower	Upper
96	100		
61	57.3	135.9	195.9#
63	0.0	24.7	84.7#

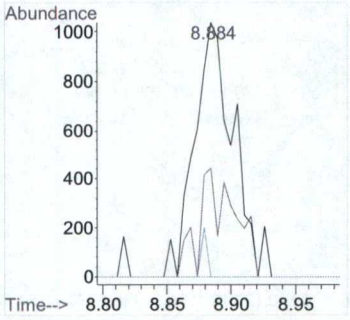




#31
1,1-dichloroethane
Concen: 0.55 ug/L
RT: 8.884 min Scan# 974
Delta R.T. -0.006 min
Lab File: A233051.D
Acq: 18 May 2017 3:34 am

Tgt Ion: 63 Resp: 2197

Ion	Ratio	Lower	Upper
63	100		
65	42.8	1.7	61.7
83	0.0	0.0	42.3



7.1.5

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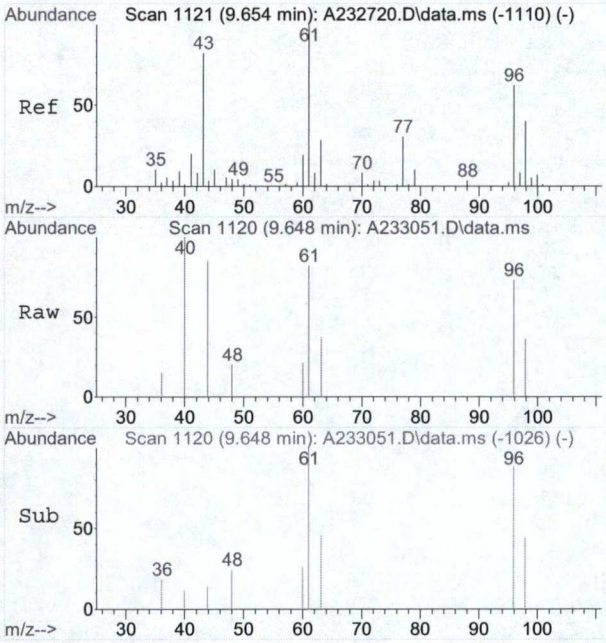
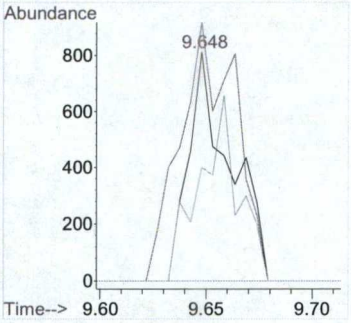
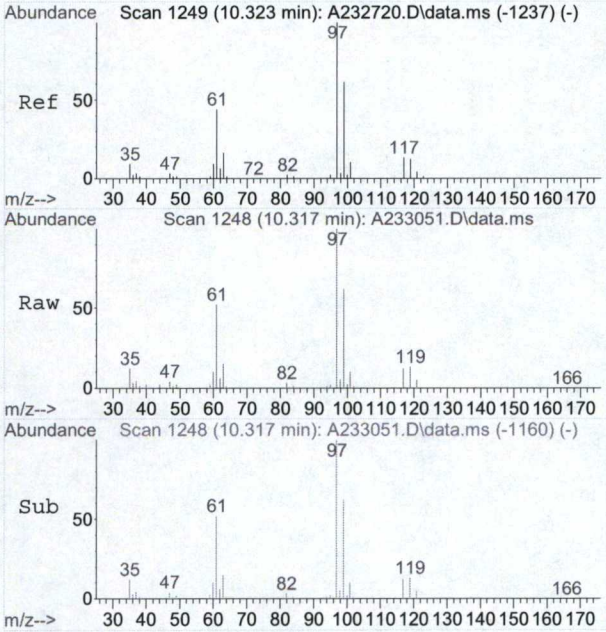


#37
cis-1,2-dichloroethene
Concen: 0.49 ug/L
RT: 9.648 min Scan# 1120
Delta R.T. -0.006 min
Lab File: A233051.D
Acq: 18 May 2017 3:34 am

Tgt Ion: 96 Resp: 1103

Ion	Ratio	Lower	Upper
96	100		
61	113.2	131.7	191.7#
98	49.6	34.1	94.1

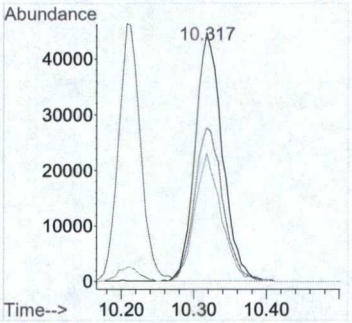




#47
1,1,1-trichloroethane
Concen: 29.58 ug/L
RT: 10.317 min Scan# 1248
Delta R.T. -0.006 min
Lab File: A233051.D
Acq: 18 May 2017 3:34 am

Tgt Ion: 97 Resp: 115266

Ion	Ratio	Lower	Upper
97	100		
99	62.2	32.6	92.6
61	51.6	14.2	74.2



7.1.5

7

SGS ACCUTEST JC43355

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233047.D
Acq On : 18 May 2017 1:36 am
Operator : Gabriela
Sample : jc43355-4
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 18 11:58:11 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.837	65	399018	500.00 ug/L	0.00
5) pentafluorobenzene	10.212	168	199086	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.153	114	312755	50.00 ug/L	0.00
74) chlorobenzene-d5	14.553	117	287497	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.157	152	151741	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.232	113	113575	54.08 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.16%		
53) 1,2-dichloroethane-d4 (s)	10.677	65	137928	53.25 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.50%		
75) toluene-d8 (s)	12.900	98	373861	51.06 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.12%		
99) 4-bromofluorobenzene (s)	15.844	95	125216	48.52 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.04%		
Target Compounds					Qvalue
31) 1,1-dichloroethane	8.888	63	2573	0.60 ug/L	96
37) cis-1,2-dichloroethene	9.652	96	2189	0.90 ug/L #	66
47) 1,1,1-trichloroethane	10.316	97	54352	12.94 ug/L	99
62) trichloroethene	11.509	95	1509	0.74 ug/L	89

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

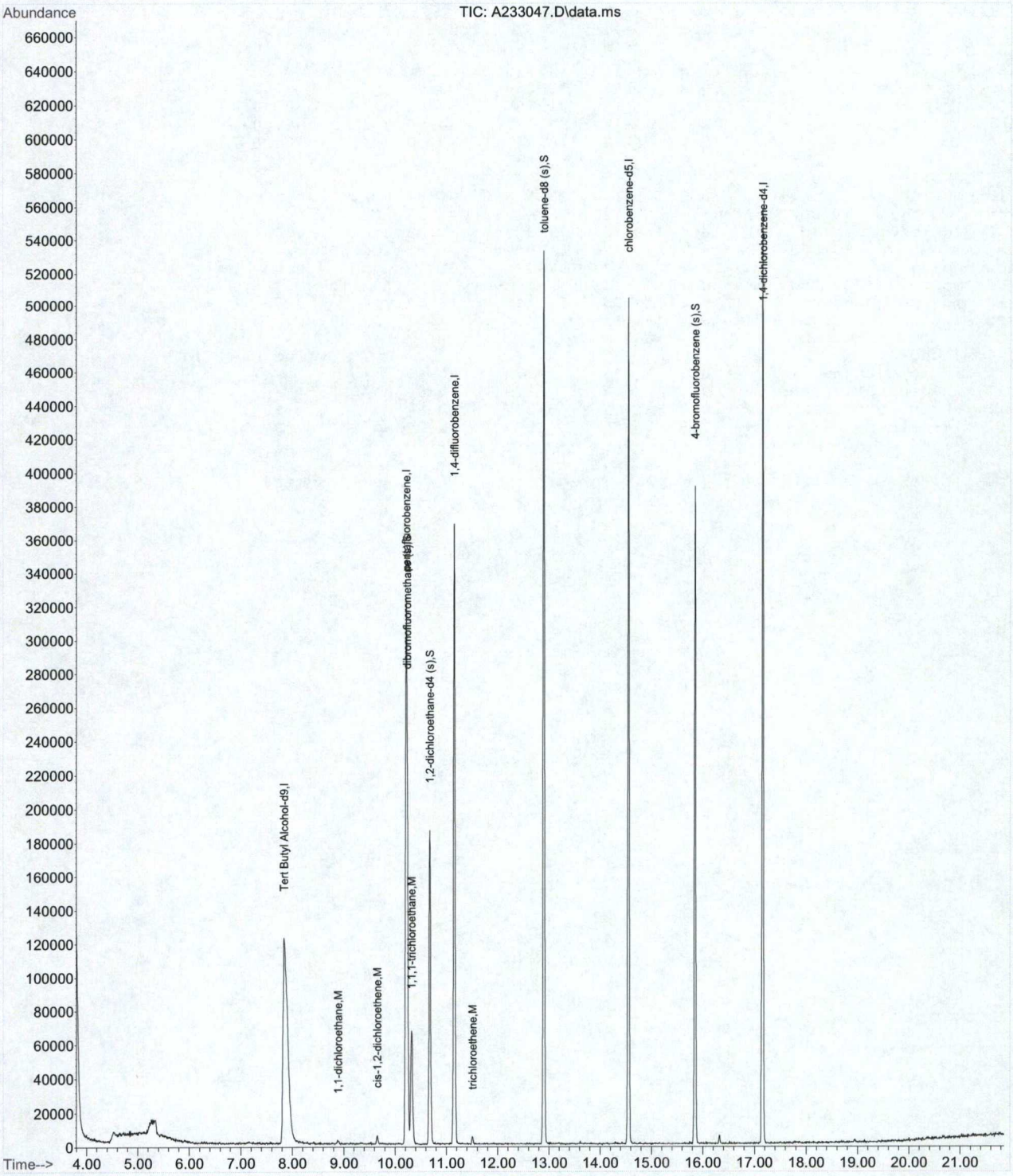
7.1.6

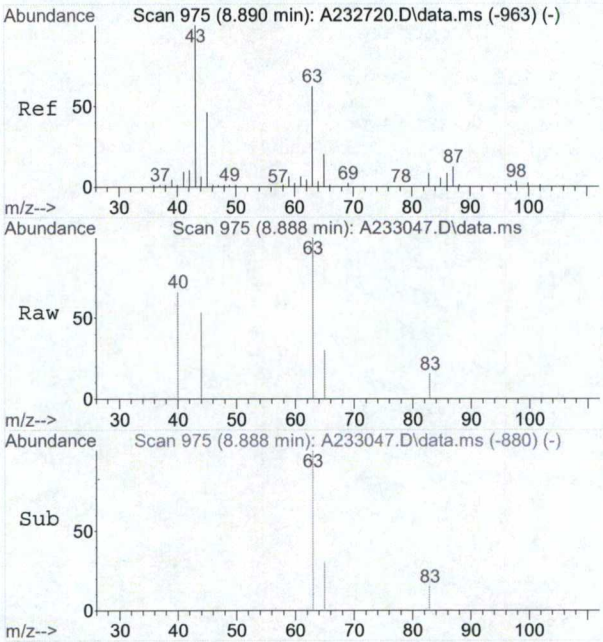
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233047.D
Acq On : 18 May 2017 1:36 am
Operator : Gabriela
Sample : jc43355-4
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 18 11:58:11 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

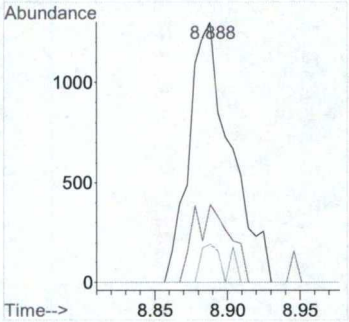


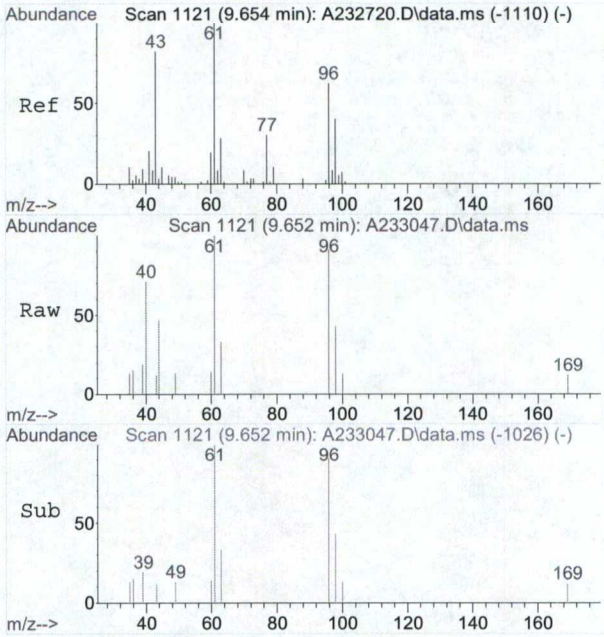


#31
1,1-dichloroethane
Concen: 0.60 ug/L
RT: 8.888 min Scan# 975
Delta R.T. -0.002 min
Lab File: A233047.D
Acq: 18 May 2017 1:36 am

Tgt Ion: 63 Resp: 2573

Ion	Ratio	Lower	Upper
63	100		
65	30.2	1.7	61.7
83	14.9	0.0	42.3

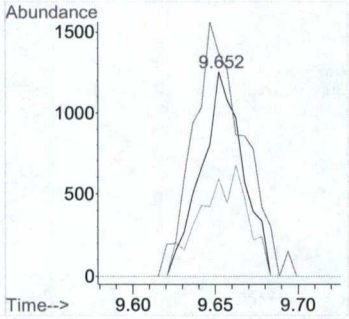




#37
cis-1,2-dichloroethene
Concen: 0.90 ug/L
RT: 9.652 min Scan# 1121
Delta R.T. -0.002 min
Lab File: A233047.D
Acq: 18 May 2017 1:36 am

Tgt Ion: 96 Resp: 2189

Ion	Ratio	Lower	Upper
96	100		
61	109.3	131.7	191.7#
98	47.1	34.1	94.1



7.1.6

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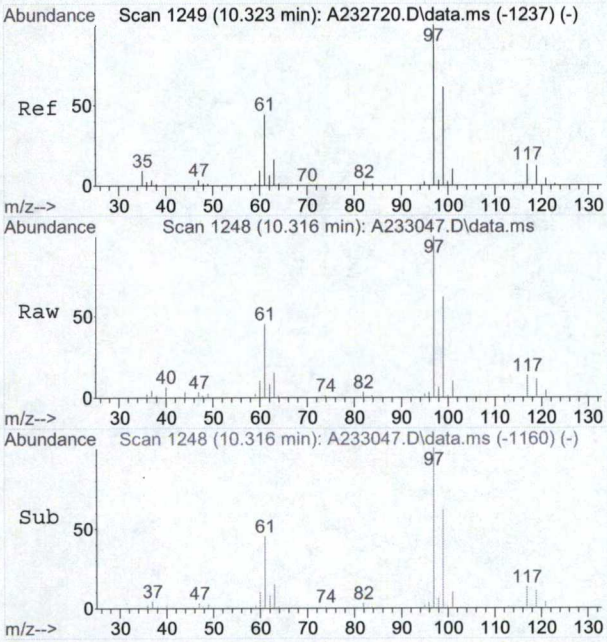
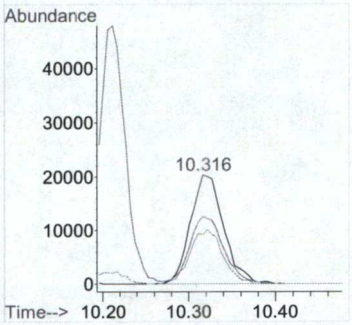
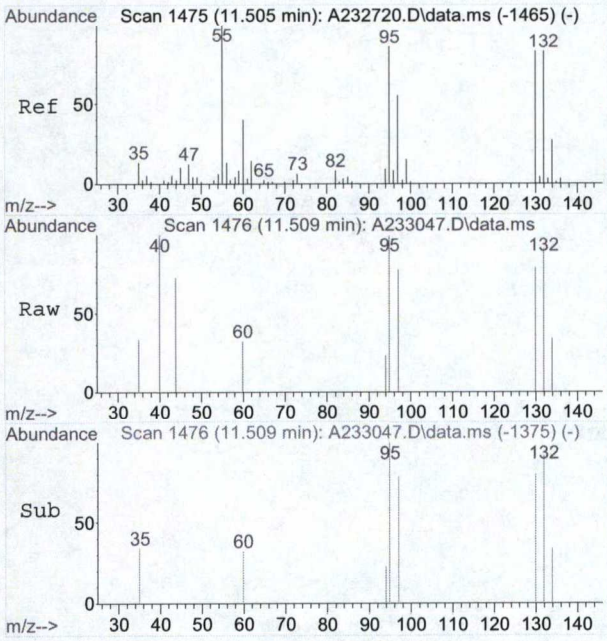


#47
1,1,1-trichloroethane
Concen: 12.94 ug/L
RT: 10.316 min Scan# 1248
Delta R.T. -0.007 min
Lab File: A233047.D
Acq: 18 May 2017 1:36 am

Tgt Ion: 97 Resp: 54352

Ion	Ratio	Lower	Upper
97	100		
99	61.7	32.6	92.6
61	44.3	14.2	74.2

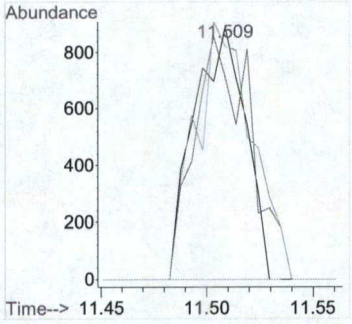




#62
trichloroethene
Concen: 0.74 ug/L
RT: 11.509 min Scan# 1476
Delta R.T. 0.003 min
Lab File: A233047.D
Acq: 18 May 2017 1:36 am

Tgt Ion: 95 Resp: 1509

Ion	Ratio	Lower	Upper
95	100		
130	80.0	66.7	126.7
132	92.3	66.5	126.5



7.1.6

7

SGS ACCUTEST JC43355

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233046.D
Acq On : 18 May 2017 1:06 am
Operator : Gabriela
Sample : jc43355-5
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 18 11:57:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.836	65	388656	500.00 ug/L	0.00
5) pentafluorobenzene	10.216	168	198180	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.152	114	312952	50.00 ug/L	0.00
74) chlorobenzene-d5	14.552	117	286677	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.156	152	155861	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.237	113	115732	55.36 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 110.72%		
53) 1,2-dichloroethane-d4 (s)	10.676	65	136895	52.82 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 105.64%		
75) toluene-d8 (s)	12.899	98	372358	51.00 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 102.00%		
99) 4-bromofluorobenzene (s)	15.843	95	128156	48.34 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.68%		
Target Compounds					Qvalue
42) chloroform	10.033	83	1592	0.41 ug/L	84
76) toluene	12.977	92	8483	1.73 ug/L	91

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

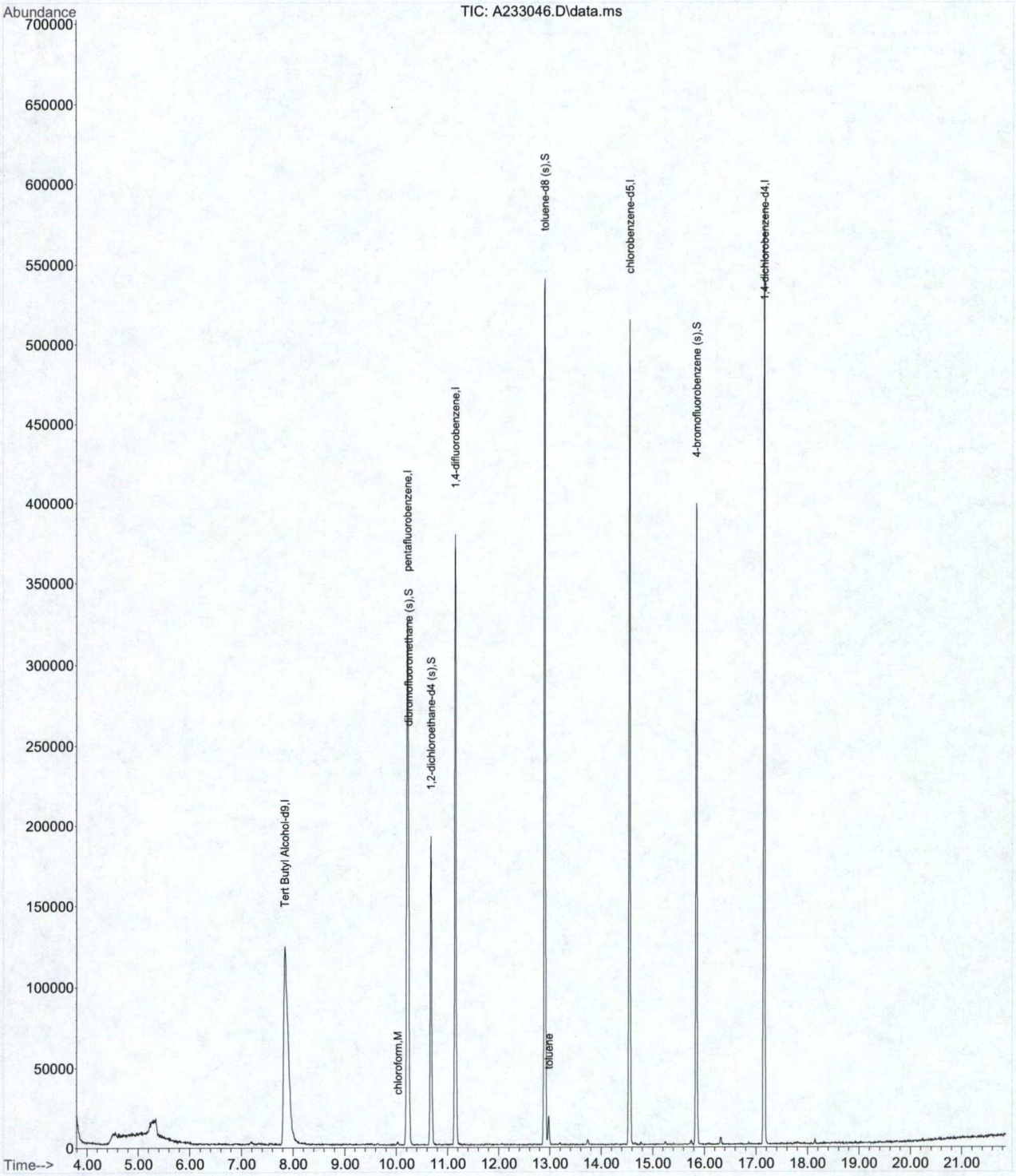
7.1.7

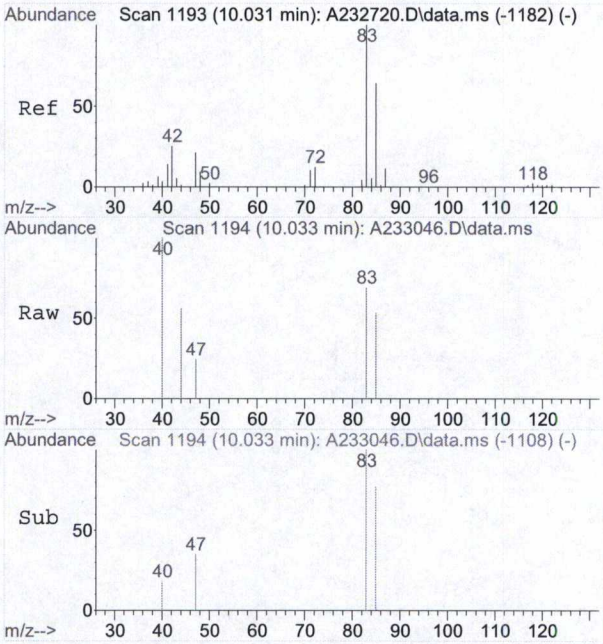
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233046.D
Acq On : 18 May 2017 1:06 am
Operator : Gabriela
Sample : jc43355-5
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 18 11:57:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

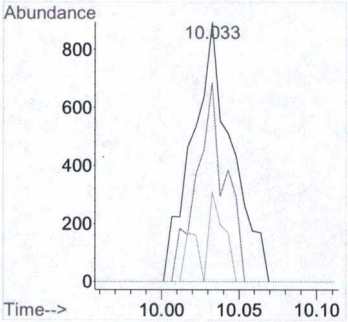


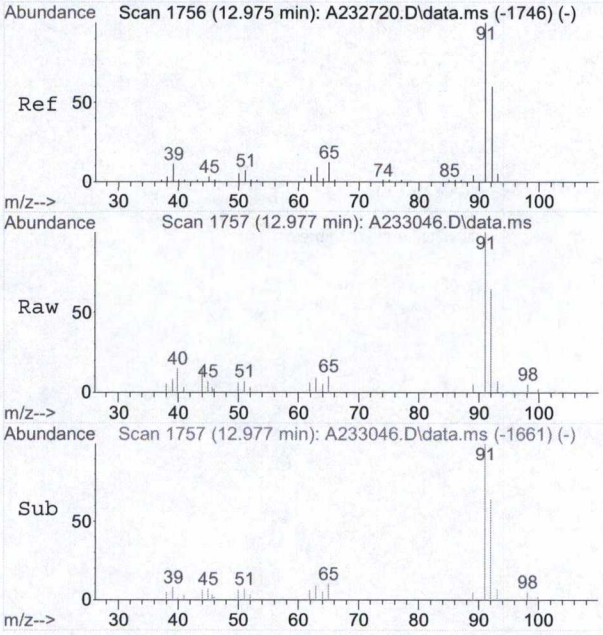


#42
chloroform
Concen: 0.41 ug/L
RT: 10.033 min Scan# 1194
Delta R.T. 0.002 min
Lab File: A233046.D
Acq: 18 May 2017 1:06 am

Tgt Ion: 83 Resp: 1592

Ion	Ratio	Lower	Upper
83	100		
85	76.8	34.1	94.1
47	34.6	0.0	56.4

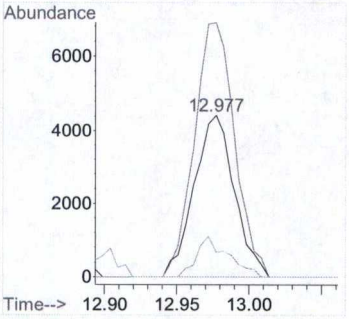




#76
toluene
Concen: 1.73 ug/L
RT: 12.977 min Scan# 1757
Delta R.T. 0.002 min
Lab File: A233046.D
Acq: 18 May 2017 1:06 am

Tgt Ion: 92 Resp: 8483

Ion	Ratio	Lower	Upper
92	100		
91	156.2	147.4	187.4
65	15.0	0.2	40.2



7.1.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233048.D
Acq On : 18 May 2017 2:05 am
Operator : Gabriela
Sample : jc43355-6
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 18 11:58:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.842	65	384118	500.00	ug/L	0.00
5) pentafluorobenzene	10.211	168	190087	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.147	114	305020	50.00	ug/L	0.00
74) chlorobenzene-d5	14.552	117	275980	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.157	152	147432	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.232	113	112247	55.98	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 111.96%			
53) 1,2-dichloroethane-d4 (s)	10.676	65	133945	53.02	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.04%			
75) toluene-d8 (s)	12.894	98	362738	51.61	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 103.22%			
99) 4-bromofluorobenzene (s)	15.844	95	122013	48.66	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.32%			
Target Compounds						Qvalue
47) 1,1,1-trichloroethane	10.321	97	807	0.20	ug/L	87
81) tetrachloroethene	13.621	166	798	0.38	ug/L	91

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

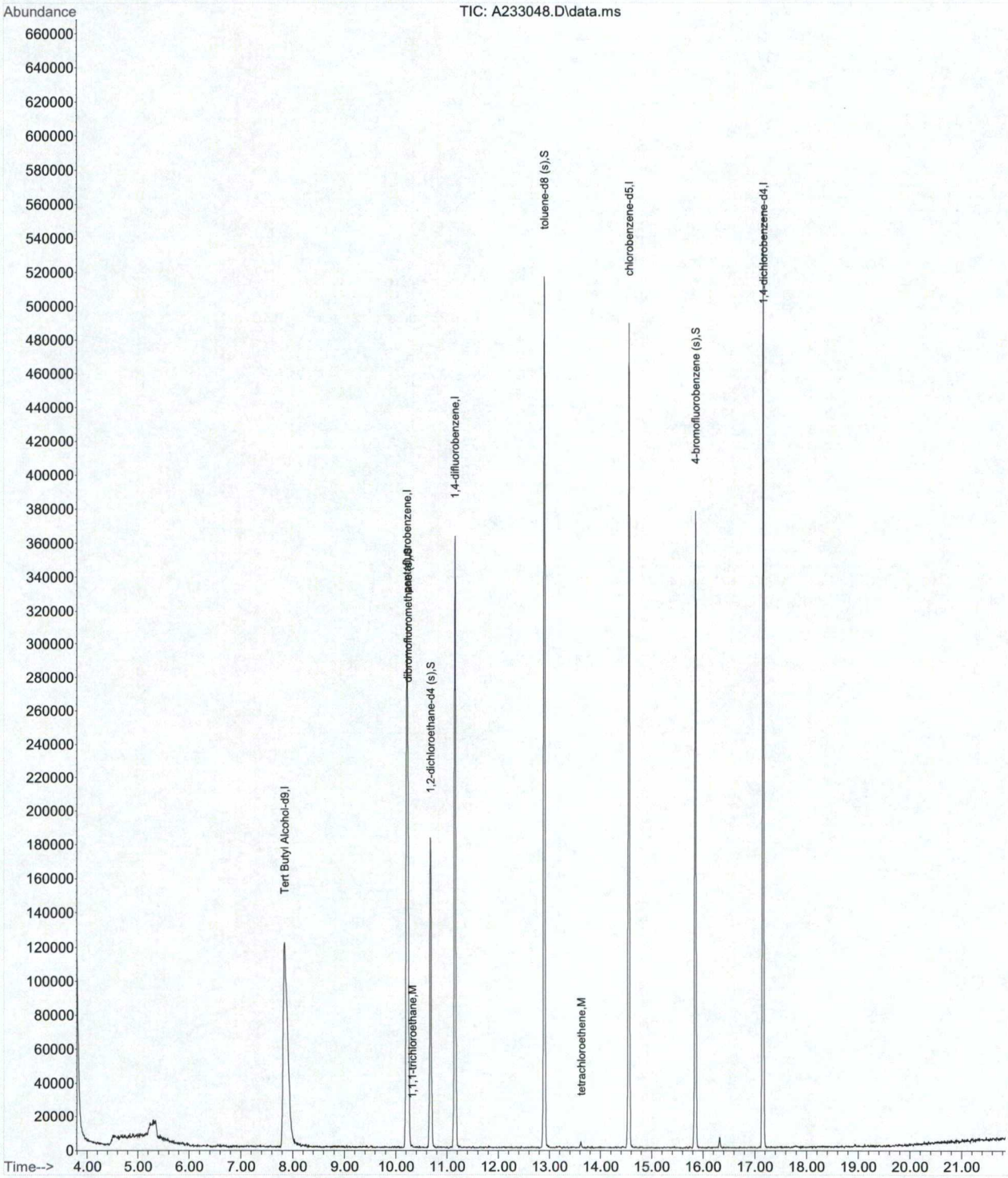
7.1.8

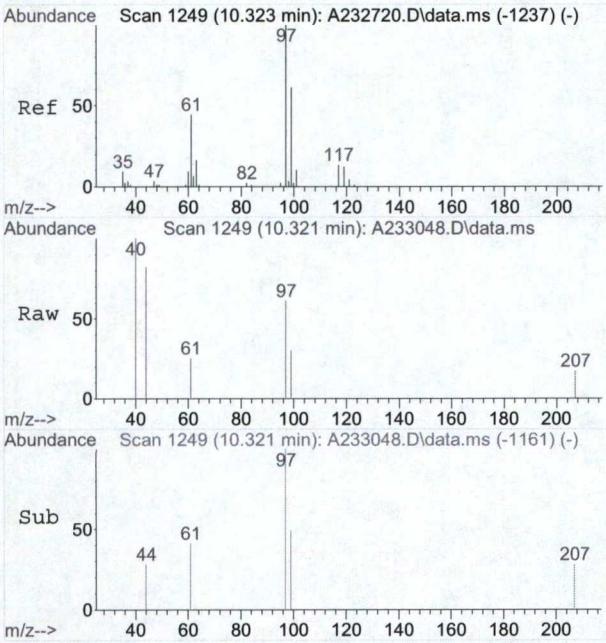
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233048.D
Acq On : 18 May 2017 2:05 am
Operator : Gabriela
Sample : jc43355-6
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 18 11:58:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

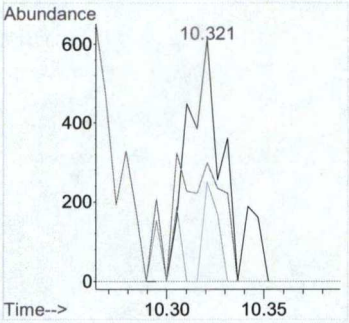


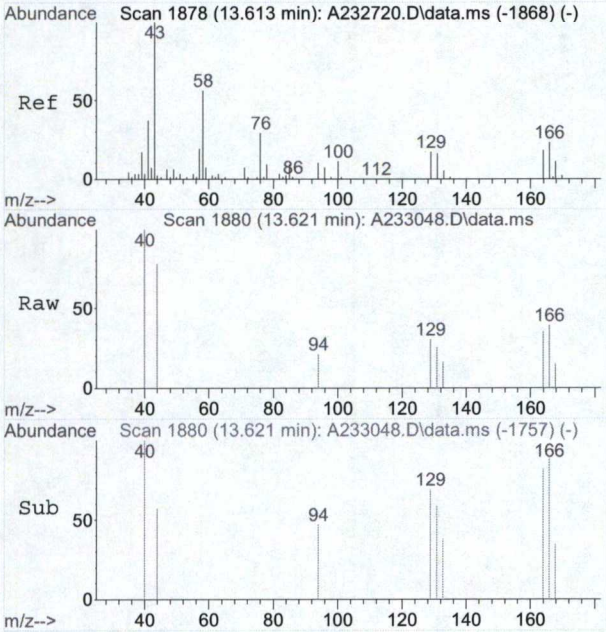


#47
1,1,1-trichloroethane
Concen: 0.20 ug/L
RT: 10.321 min Scan# 1249
Delta R.T. -0.003 min
Lab File: A233048.D
Acq: 18 May 2017 2:05 am

Tgt Ion: 97 Resp: 807

Ion	Ratio	Lower	Upper
97	100		
99	48.6	32.6	92.6
61	40.8	14.2	74.2

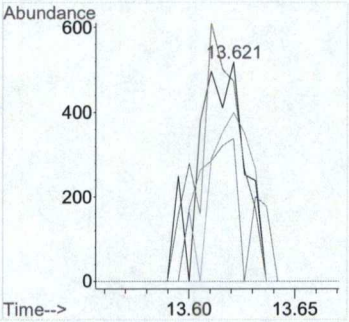




#81
tetrachloroethene
Concen: 0.38 ug/L
RT: 13.621 min Scan# 1880
Delta R.T. 0.008 min
Lab File: A233048.D
Acq: 18 May 2017 2:05 am

Tgt Ion:166 Resp: 798

Ion	Ratio	Lower	Upper
166	100		
164	91.5	48.1	108.1
129	77.2	42.8	102.8
131	65.6	40.9	100.9



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233049.D
Acq On : 18 May 2017 2:35 am
Operator : Gabriela
Sample : jc43355-7
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 18 11:59:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

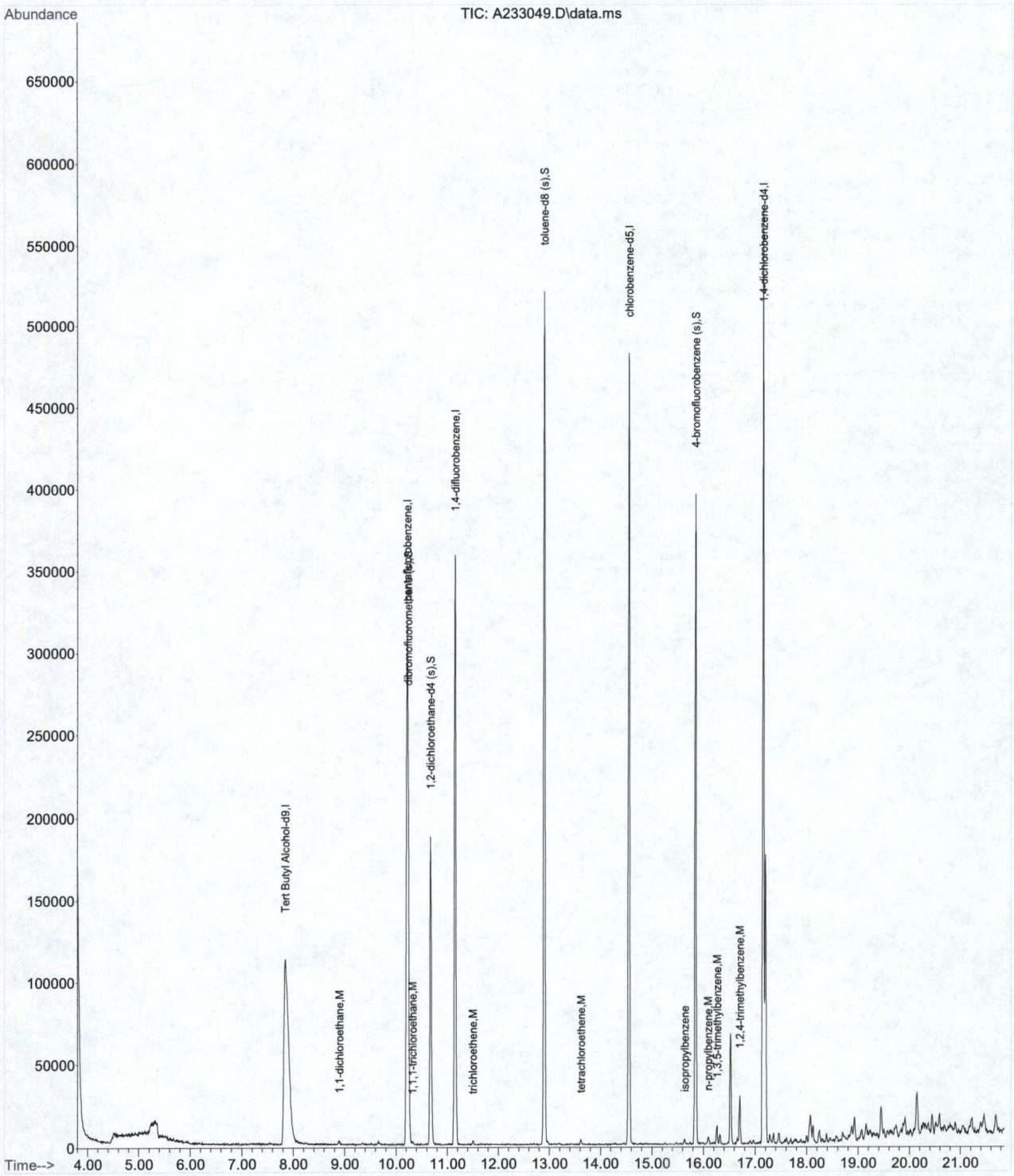
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Tert Butyl Alcohol-d9	7.844	65	369032	500.00 ug/L	0.00
5) pentafluorobenzene	10.213	168	189518	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.155	114	304526	50.00 ug/L	0.00
74) chlorobenzene-d5	14.554	117	281353	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.154	152	149713	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.234	113	112669	56.36 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 112.72%		
53) 1,2-dichloroethane-d4 (s)	10.673	65	133825	53.06 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 106.12%		
75) toluene-d8 (s)	12.896	98	358529	50.04 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.08%		
99) 4-bromofluorobenzene (s)	15.846	95	122033	47.92 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 95.84%		
Target Compounds					Qvalue
31) 1,1-dichloroethane	8.895	63	2545	0.63 ug/L	86
47) 1,1,1-trichloroethane	10.323	97	1887	0.47 ug/L	89
62) trichloroethene	11.500	95	834	0.42 ug/L #	81
81) tetrachloroethene	13.618	166	750	0.35 ug/L	79
96) isopropylbenzene	15.637	105	2198	0.24 ug/L	88
104) n-propylbenzene	16.092	91	4030	0.38 ug/L	91
107) 1,3,5-trimethylbenzene	16.264	105	6304	0.80 ug/L	100
109) 1,2,4-trimethylbenzene	16.704	105	15554	2.02 ug/L	89

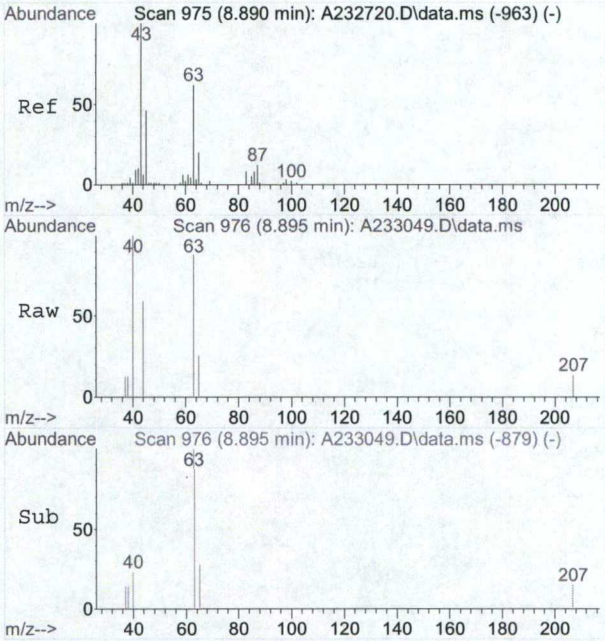
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\A\va8819-8820\
Data File : A233049.D
Acq On : 18 May 2017 2:35 am
Operator : Gabriela
Sample : jc43355-7
Misc : MS16089,VA8820,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 18 11:59:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Wed May 10 09:10:51 2017
Response via : Initial Calibration

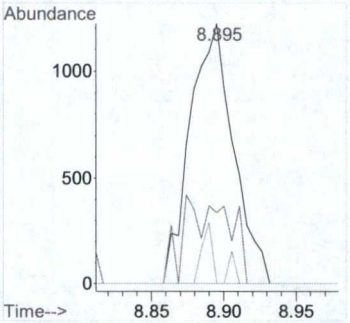


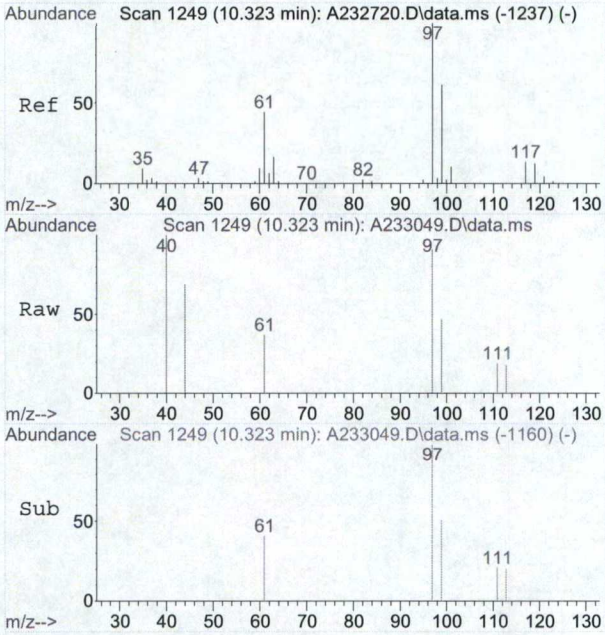


#31
1,1-dichloroethane
Concen: 0.63 ug/L
RT: 8.895 min Scan# 976
Delta R.T. 0.005 min
Lab File: A233049.D
Acq: 18 May 2017 2:35 am

Tgt Ion: 63 Resp: 2545

Ion	Ratio	Lower	Upper
63	100		
65	27.8	1.7	61.7
83	0.0	0.0	42.3

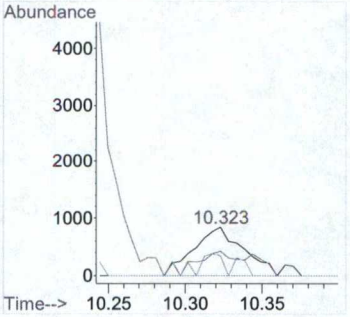




#47
1,1,1-trichloroethane
Concen: 0.47 ug/L
RT: 10.323 min Scan# 1249
Delta R.T. -0.000 min
Lab File: A233049.D
Acq: 18 May 2017 2:35 am

Tgt Ion: 97 Resp: 1887

Ion	Ratio	Lower	Upper
97	100		
99	51.2	32.6	92.6
61	41.0	14.2	74.2



7.1.9

7