Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050318\

Quantitation Report (Not Reviewed)

Data File : VX001376.D
Acq On : 03 May 2018 22:54
Operator : JC/MD
Sample : J2695-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : CS-1-OILY-STONE

Quant Time: May 04 07:18:40 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050118W.M
Quant Title : SW846 8260
QLast Update : Wed May 02 01:48:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.68	168	150019	50.00	ug/l		0.00
34) 1,4-Difluorobenzene	6.87	114	211945	50.00	ug/l		0.00
63) Chlorobenzene-d5	10.12	117	194969	50.00	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	102435	50.00	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	6.08	65	79861	38.46	ug/l		0.00
Spiked Amount 50.000			Recovery = 76.92%				
35) Dibromofluoromethane	5.51	113	68021	37.25	ug/l		0.00
Spiked Amount 50.000			Recovery = 74.50%				
50) Toluene-d8	8.73	98	248198	38.05	ug/l		0.00
Spiked Amount 50.000			Recovery = 76.10%				
62) 4-Bromofluorobenzene	11.15	95	82902	31.78	ug/l		0.00
Spiked Amount 50.000			Recovery = 63.56%				
Target Compounds							Qvalue
5) Bromomethane	1.62	94	39	Below Cal		#	2
10) Methyl Iodide	2.53	142	484	4.57	ug/l	#	77
11) Tert butyl alcohol	3.08	59	401	1.12	ug/l	#	1
15) Acrylonitrile	3.15	53	206	0.25	ug/l	#	46
16) Acetone	2.45	43	4350	4.91	ug/l	#	82
18) Methyl Acetate	2.79	43	4294	2.05	ug/l		100
25) 2-Butanone	4.73	43	1808	1.51	ug/l		91
29) Tetrahydrofuran	5.19	42	573	0.78	ug/l	#	64
31) Cyclohexane	5.67	56	2531	0.99	ug/l	#	6
36) 1,1-Dichloropropene	5.67	75	9158	3.74	ug/l	#	50
38) Carbon Tetrachloride	5.67	117	12873	5.02	ug/l	#	18
44) Trichloroethene	7.22	130	15410	7.15	ug/l		94
48) Methyl methacrylate	7.78	41	427	0.20	ug/l	#	40
52) Toluene	8.79	92	1973	0.43	ug/l		99
67) Ethyl Benzene	10.26	91	9902	1.13	ug/l		99
68) m/p-Xylenes	10.37	106	18473	5.37	ug/l		99
69) o-Xylene	10.71	106	13850	4.15	ug/l		96
73) Isopropylbenzene	11.02	105	3357	0.49	ug/l		94
76) 1,2,3-Trichloropropane	11.15	75	41876	22.11	ug/l	#	39
78) n-propylbenzene	11.37	91	8229	1.08	ug/l		97
79) 2-Chlorotoluene	11.44	91	6550	1.43	ug/l	#	38
80) 1,3,5-Trimethylbenzene	11.51	105	21137	3.67	ug/l		100
81) trans-1,4-Dichloro-2-buten	11.15	75	41876	70.04	ug/l	#	6
82) 4-Chlorotoluene	11.51	91	2372	0.43	ug/l	#	43
83) tert-Butylbenzene	11.82	119	11864	2.07	ug/l	#	61
84) 1,2,4-Trimethylbenzene	11.82	105	88949	15.08	ug/l		98
85) sec-Butylbenzene	11.95	105	3672	0.53	ug/l		84
86) p-Isopropyltoluene	12.07	119	2812	0.45	ug/l		90
89) n-Butylbenzene	12.38	91	6091	1.11	ug/l	#	16
90) Hexachloroethane	12.60	117	1489	1.63	ug/l	#	1
92) 1,2-Dibromo-3-Chloropropan	13.02	75	272	0.66	ug/l	#	1
95) Naphthalene	13.84	128	76335	10.18	ug/l		99

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050318\

Quantitation Report (Not Reviewed)

Data File : VX001376.D
Acq On : 03 May 2018 22:54
Operator : JC/MD
Sample : J2695-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : CS-1-OILY-STONE

Quant Time: May 04 07:18:40 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050118W.M
Quant Title : SW846 8260
QLast Update : Wed May 02 01:48:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

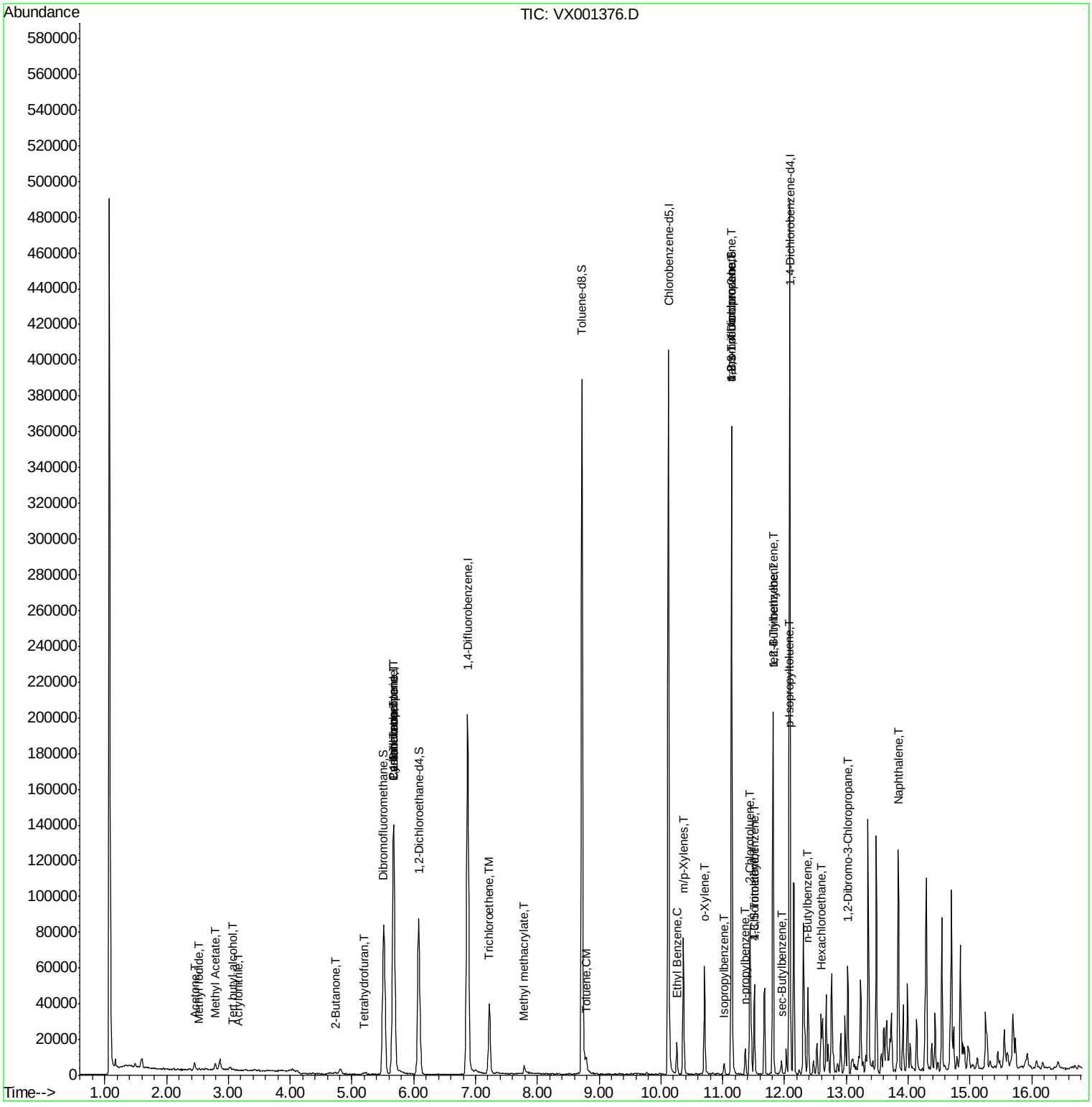
Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050318\

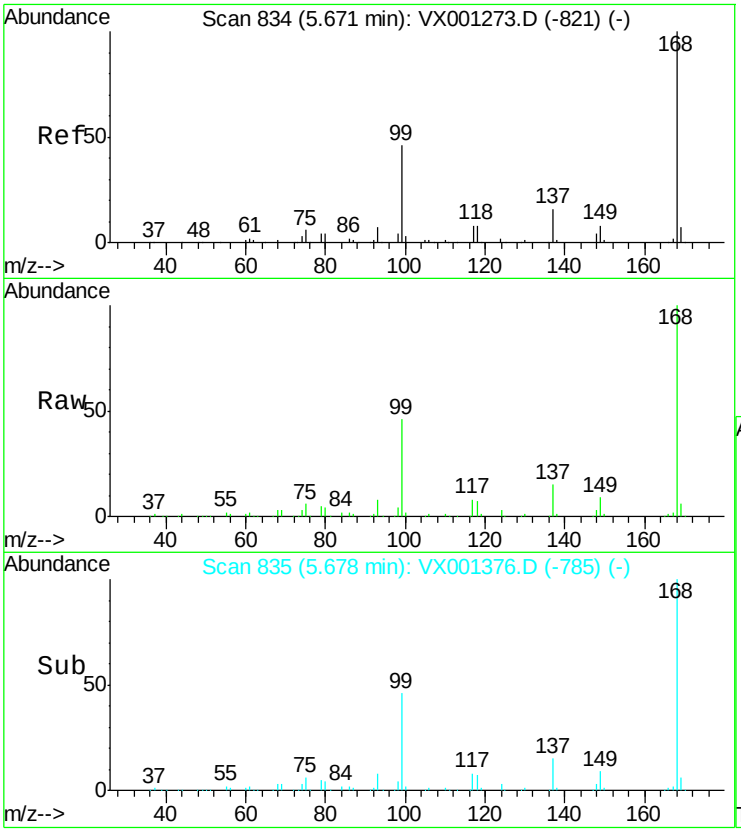
Quantitation Report (Not Reviewed)

Data File : VX001376.D
Acq On : 03 May 2018 22:54
Operator : JC/MD
Sample : J2695-02 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Quant Time: May 04 07:18:40 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050118W.M
Quant Title : SW846 8260
QLast Update : Wed May 02 01:48:25 2018
Response via : Initial Calibration



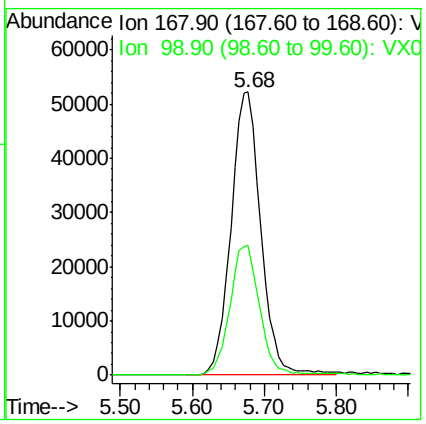


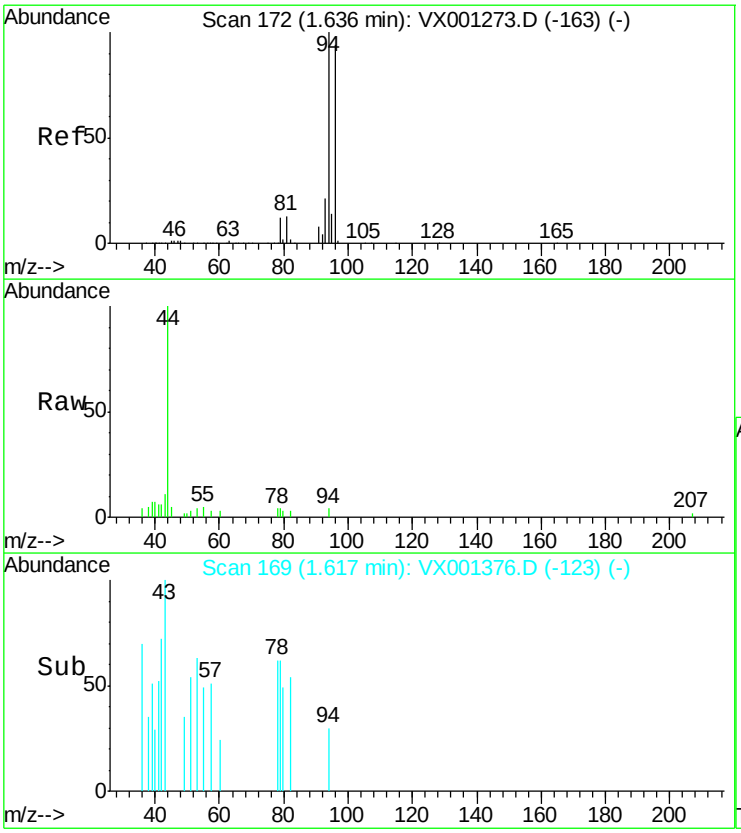
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:168 Resp: 150019

Ion	Ratio	Lower	Upper
168	100		
99	45.7	36.5	54.7

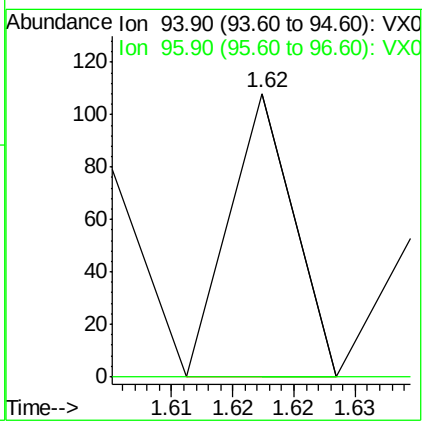


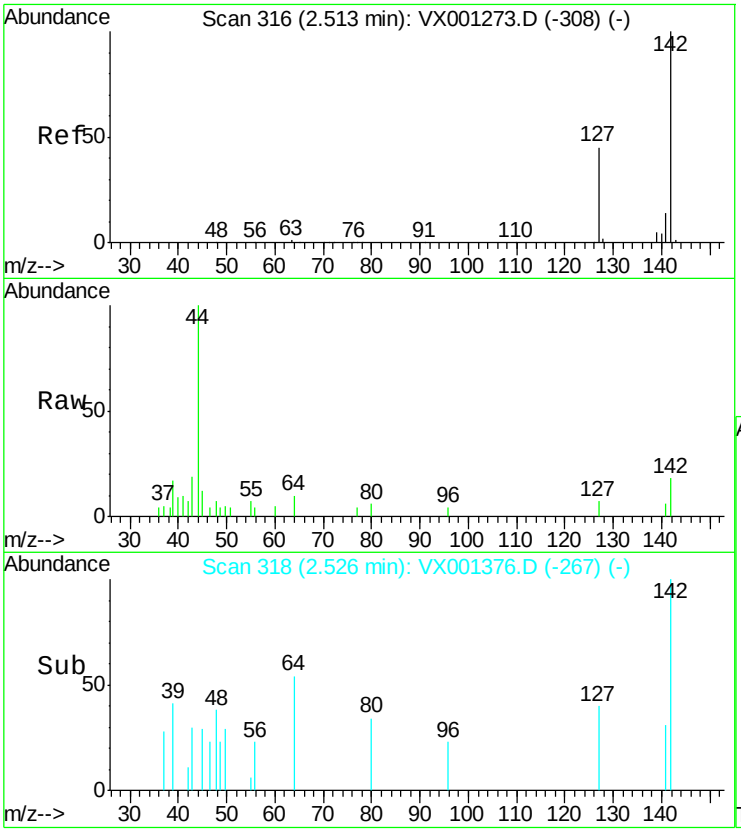


#5
Bromomethane
Concen: Below Cal
RT: 1.62 min Scan# 169
Delta R.T. -0.02 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 94 Resp: 39

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.6	113.4#



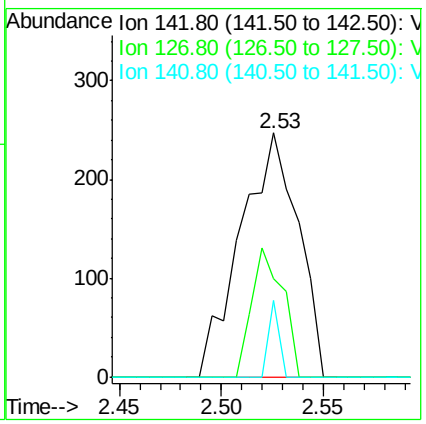


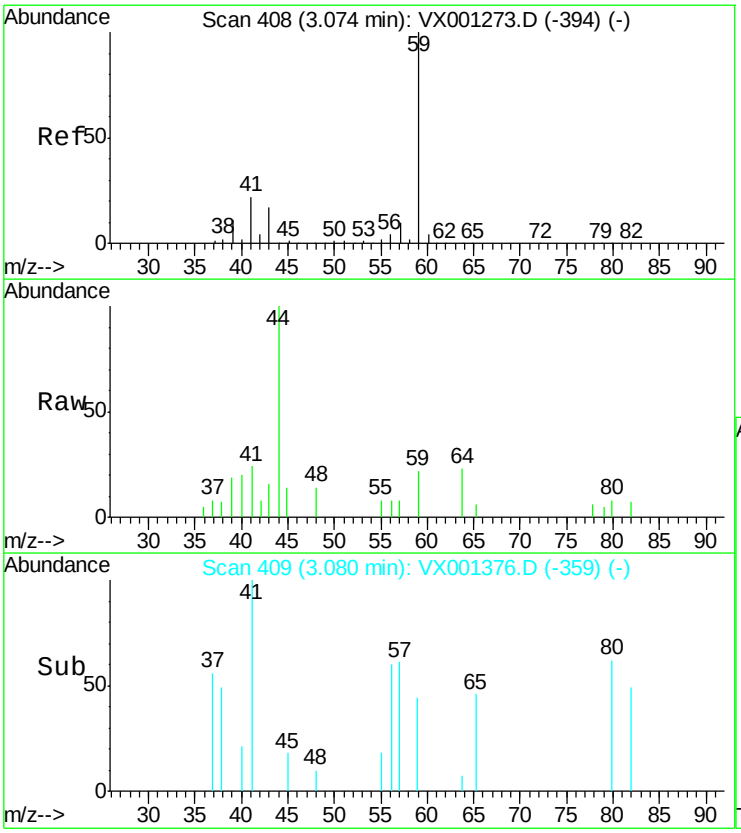
#10
Methyl Iodide
Concen: 4.57 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:142 Resp: 484

Ion	Ratio	Lower	Upper
142	100		
127	28.7	35.7	53.5#
141	5.8	11.4	17.0#

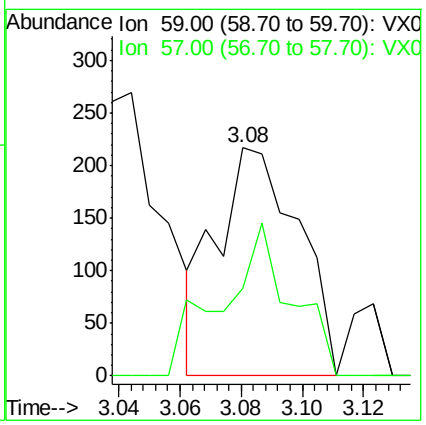


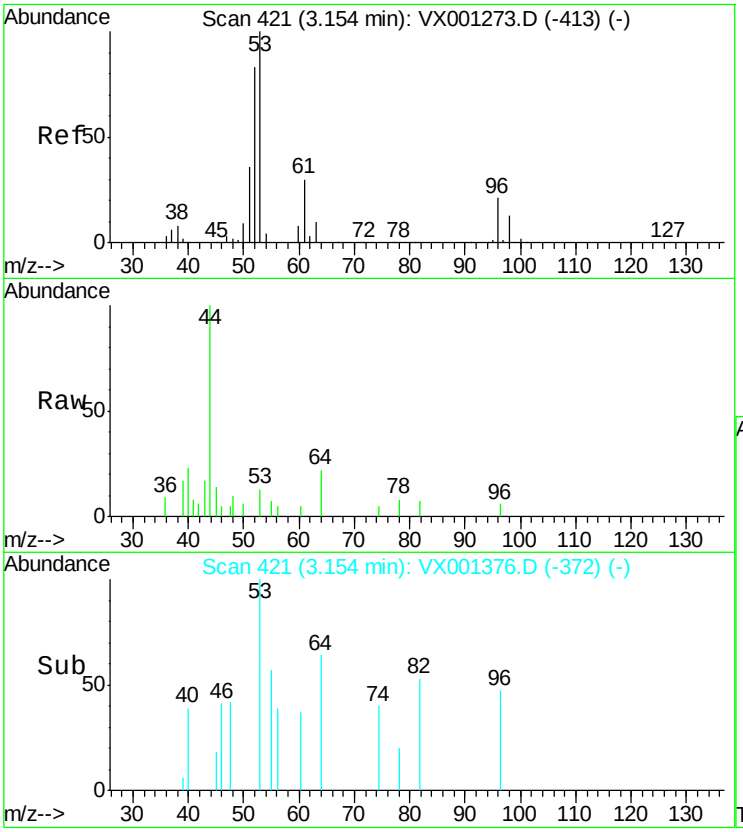


#11
Tert butyl alcohol
Concen: 1.12 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 59 Resp: 401

Ion	Ratio	Lower	Upper
59	100		
57	57.4	8.6	12.8#



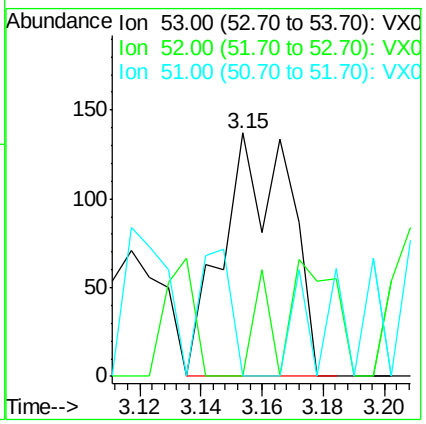


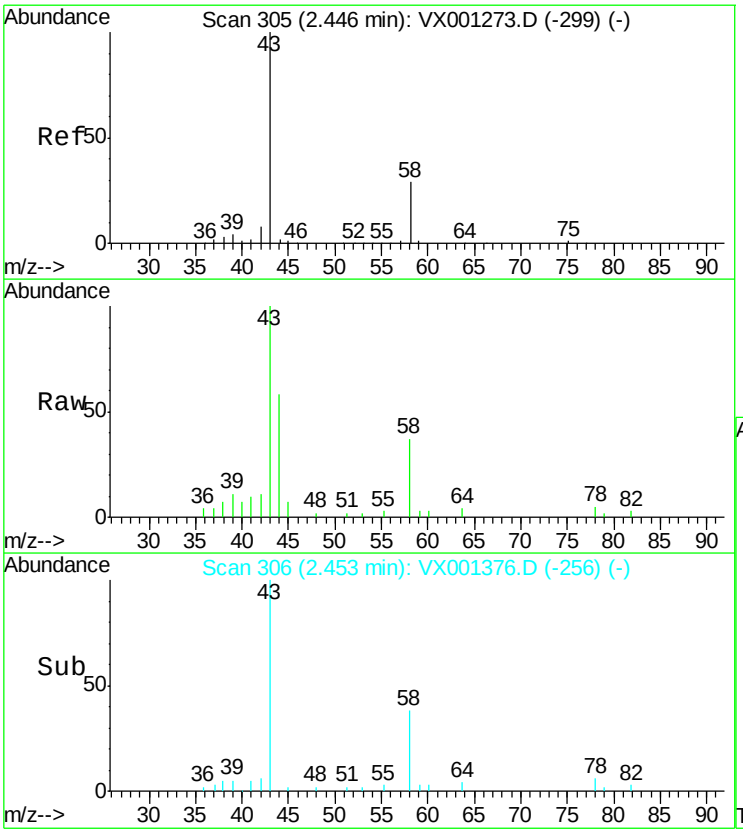
#15
Acrylonitrile
Concen: 0.25 ug/l
RT: 3.15 min Scan# 421
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 53 Resp: 206

Ion	Ratio	Lower	Upper
53	100		
52	21.4	67.0	100.4#
51	24.8	29.9	44.9#

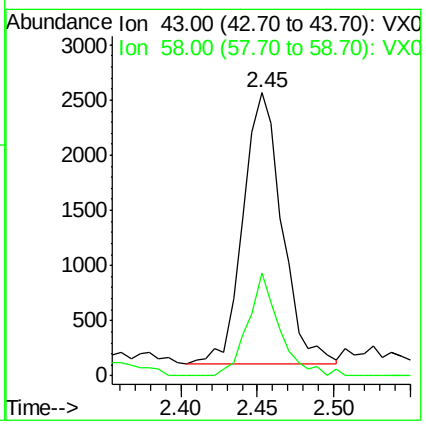


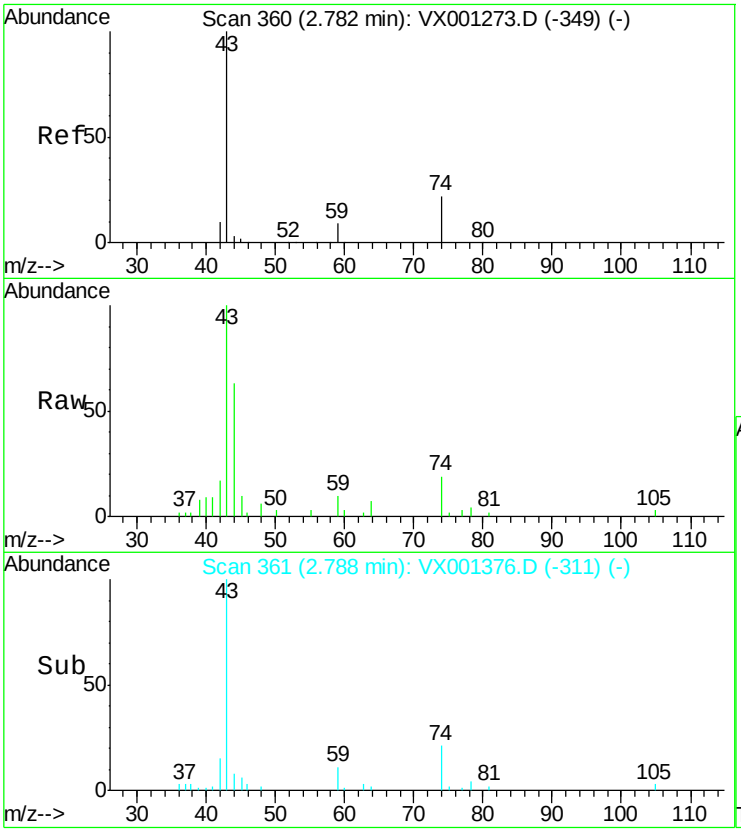


#16
Acetone
Concen: 4.91 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 43 Resp: 4350

Ion	Ratio	Lower	Upper
43	100		
58	38.2	22.8	34.2#



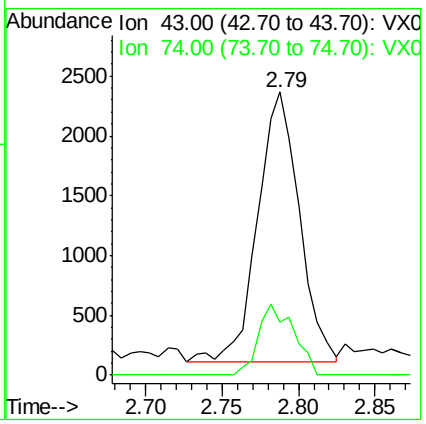


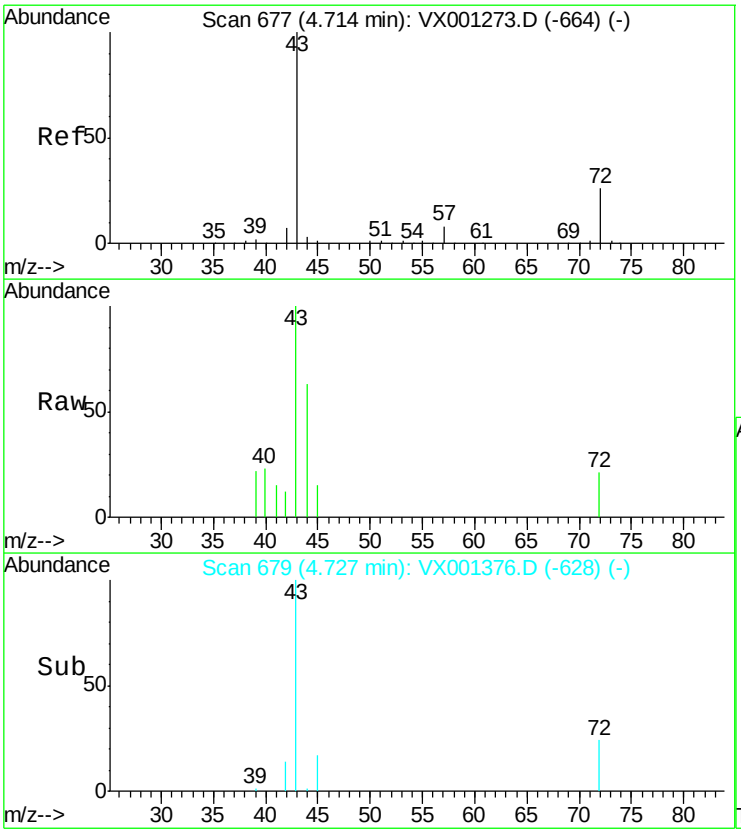
#18
Methyl Acetate
Concen: 2.05 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 43 Resp: 4294

Ion	Ratio	Lower	Upper
43	100		
74	22.3	17.8	26.6

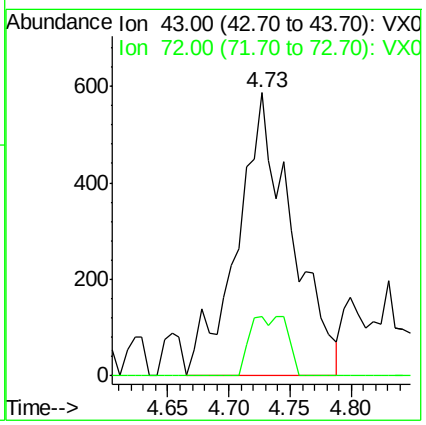


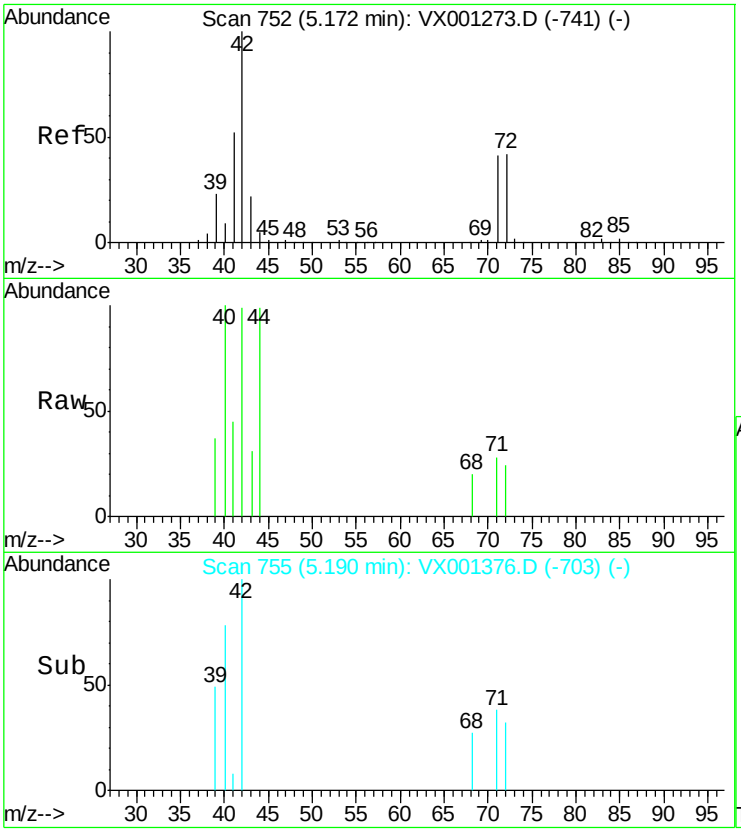


#25
2-Butanone
Concen: 1.51 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 43 Resp: 1808

Ion	Ratio	Lower	Upper
43	100		
72	21.1	20.5	30.7



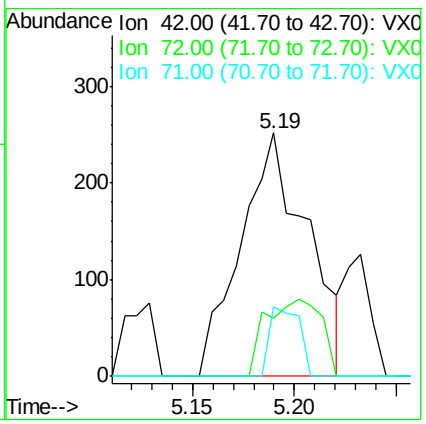


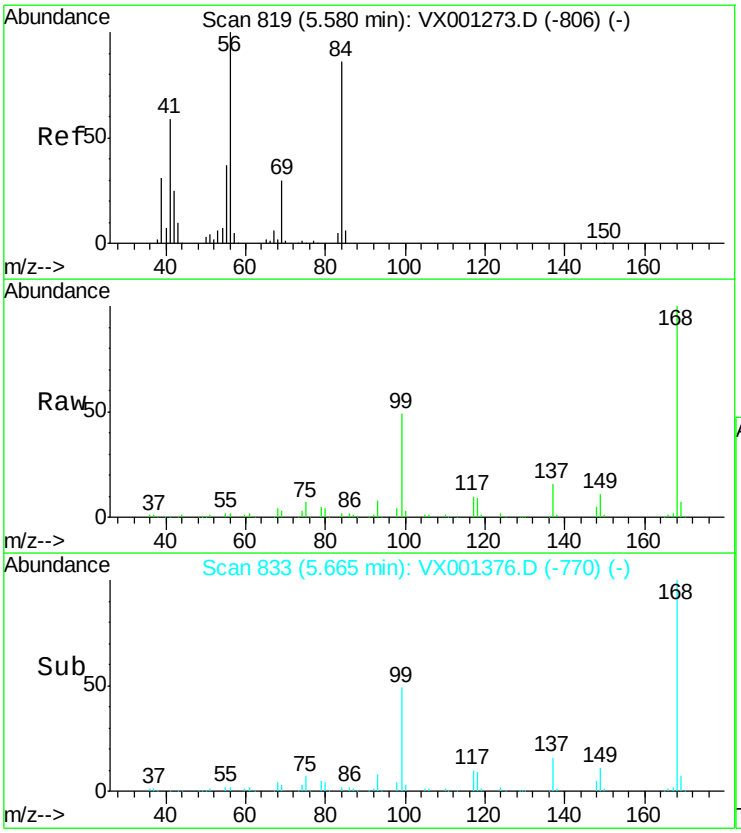
#29
Tetrahydrofuran
Concen: 0.78 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 42 Resp: 573

Ion	Ratio	Lower	Upper
42	100		
72	26.2	34.6	52.0#
71	12.7	32.7	49.1#

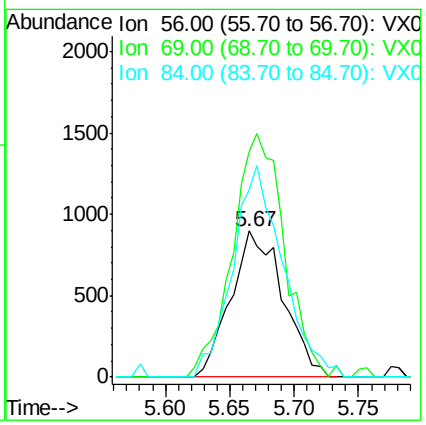


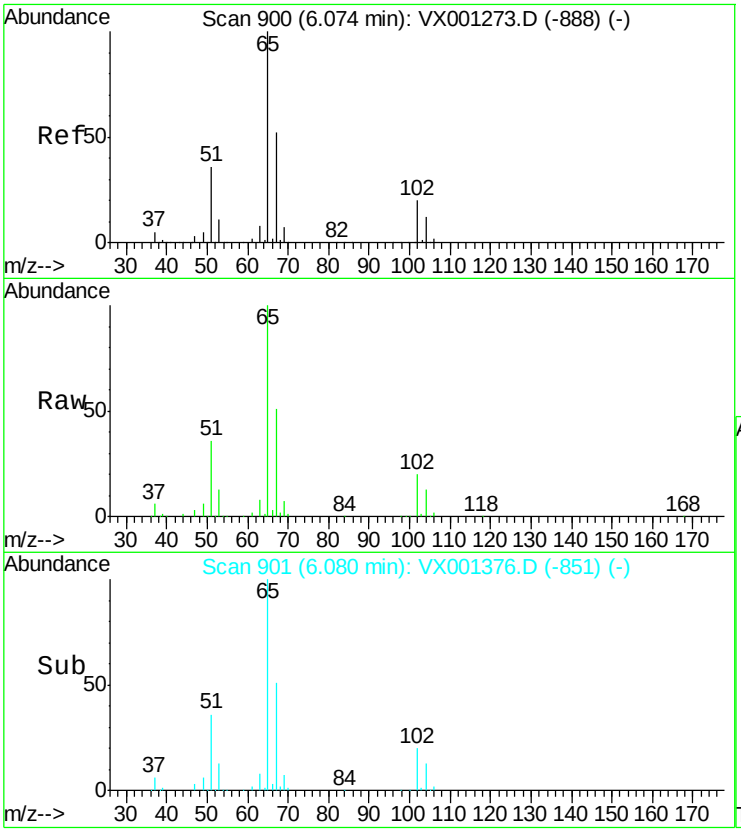


#31
Cyclohexane
Concen: 0.99 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 56 Resp: 2531

Ion	Ratio	Lower	Upper
56	100		
69	155.0	24.0	36.0#
84	128.8	69.0	103.4#



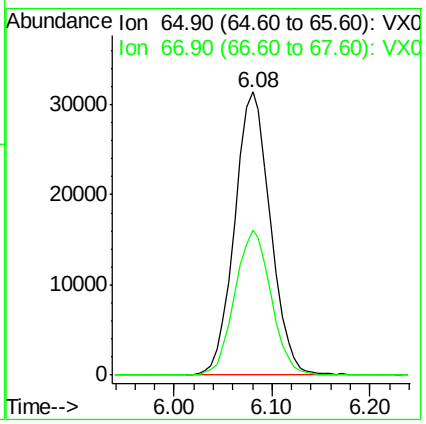


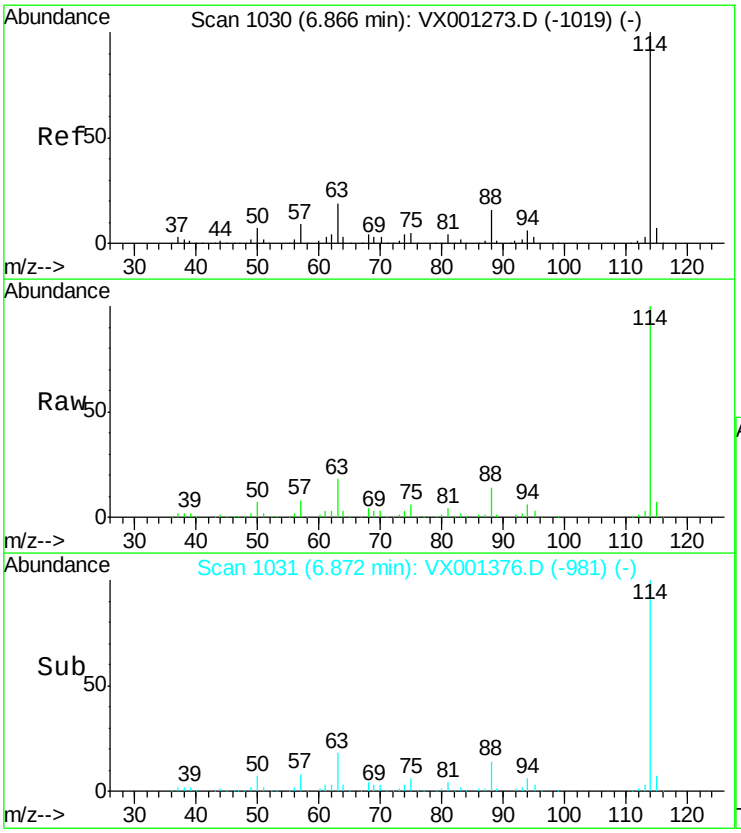
#33
1,2-Dichloroethane-d4
Concen: 38.46 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 65 Resp: 79861

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	102.8

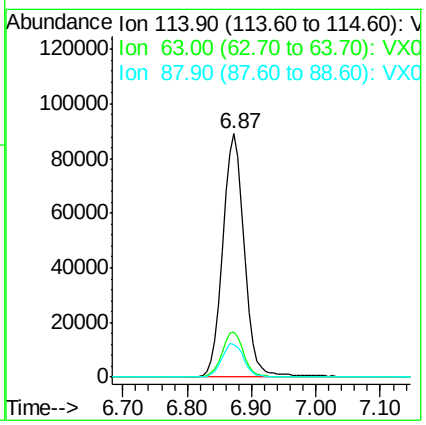


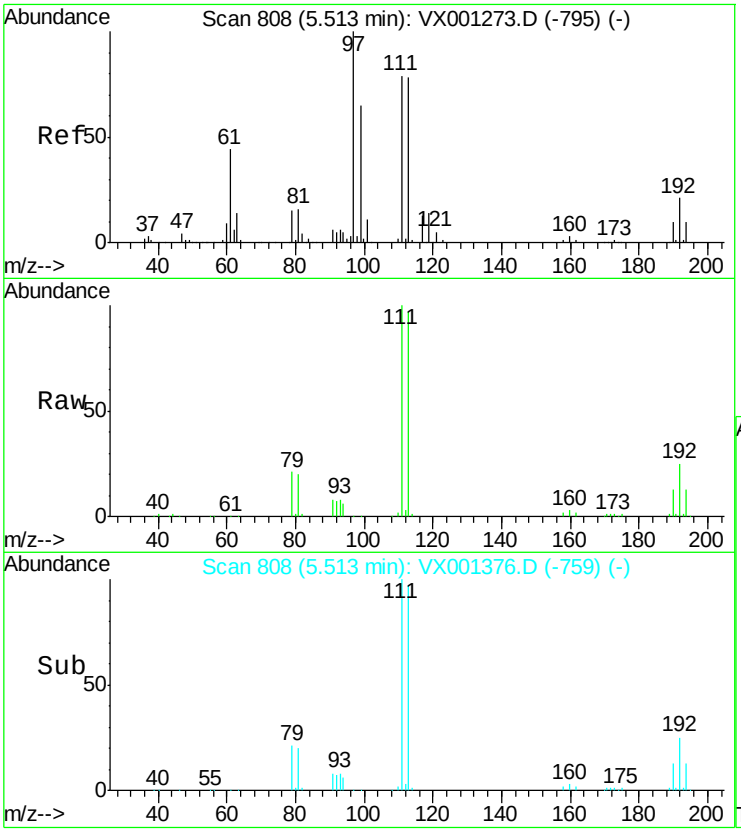


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:114 Resp: 211945

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	38.8
88	13.5	0.0	32.2



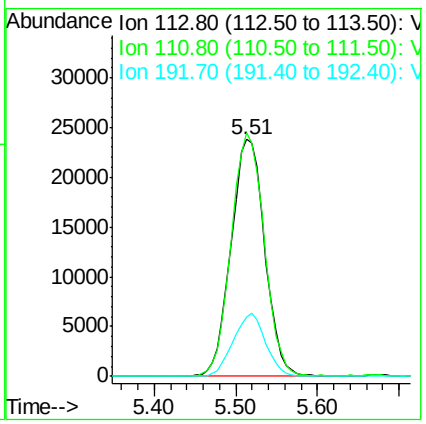


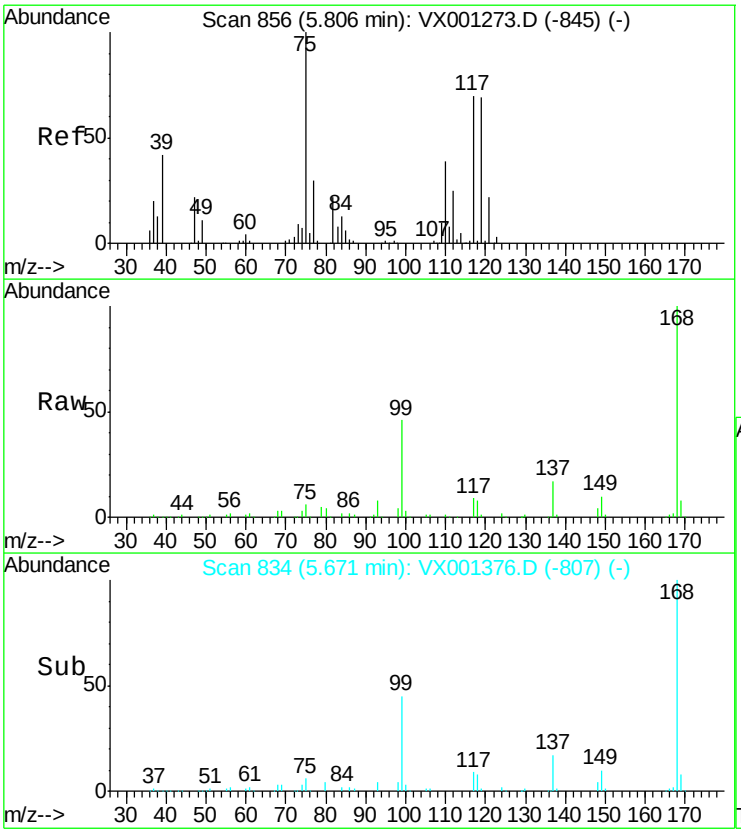
#35
Dibromofluoromethane
Concen: 37.25 ug/l
RT: 5.51 min Scan# 808
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:113 Resp: 68021

Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.2	121.8
192	25.5	20.7	31.1

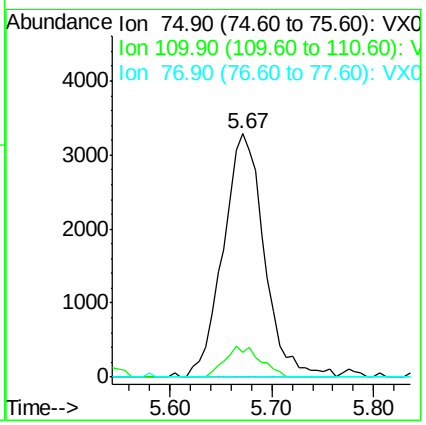


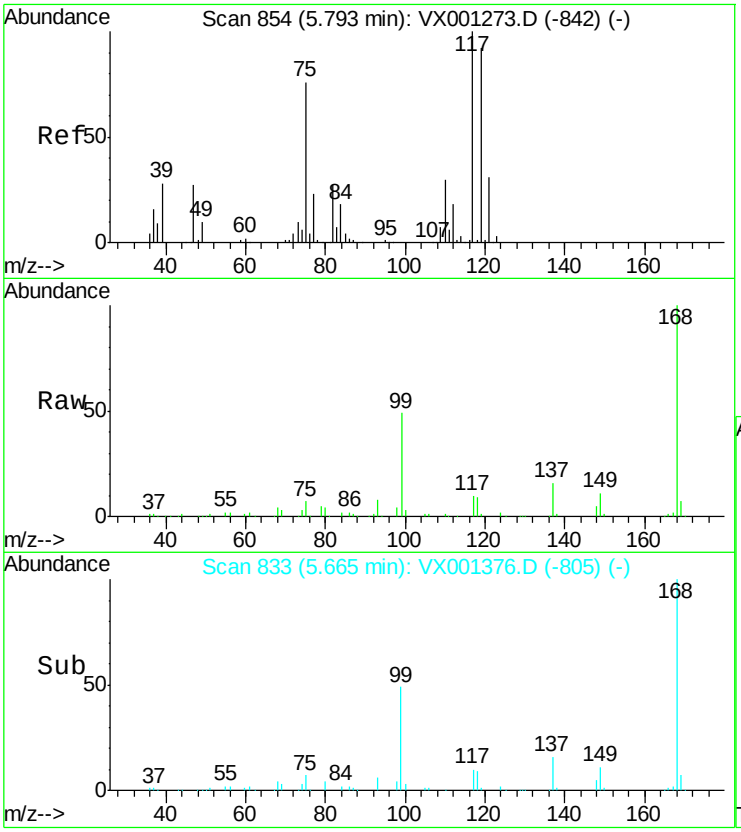


#36
1,1-Dichloropropene
Concen: 3.74 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 75 Resp: 9158

Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.9	56.9#
77	0.0	24.2	36.2#



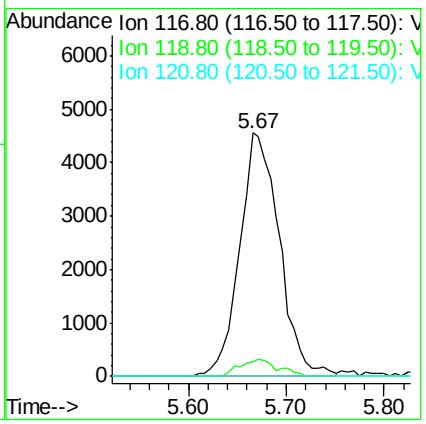


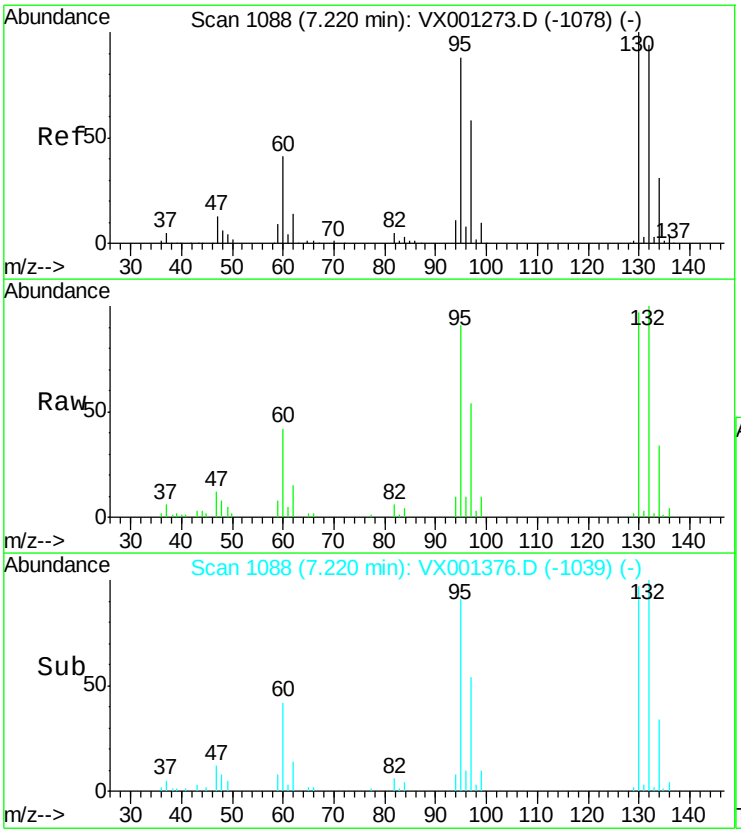
#38
Carbon Tetrachloride
Concen: 5.02 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:117 Resp: 12873

Ion	Ratio	Lower	Upper
117	100		
119	5.8	73.4	110.2#
121	0.0	25.0	37.4#

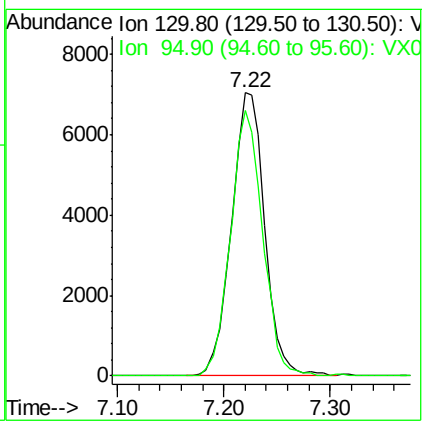


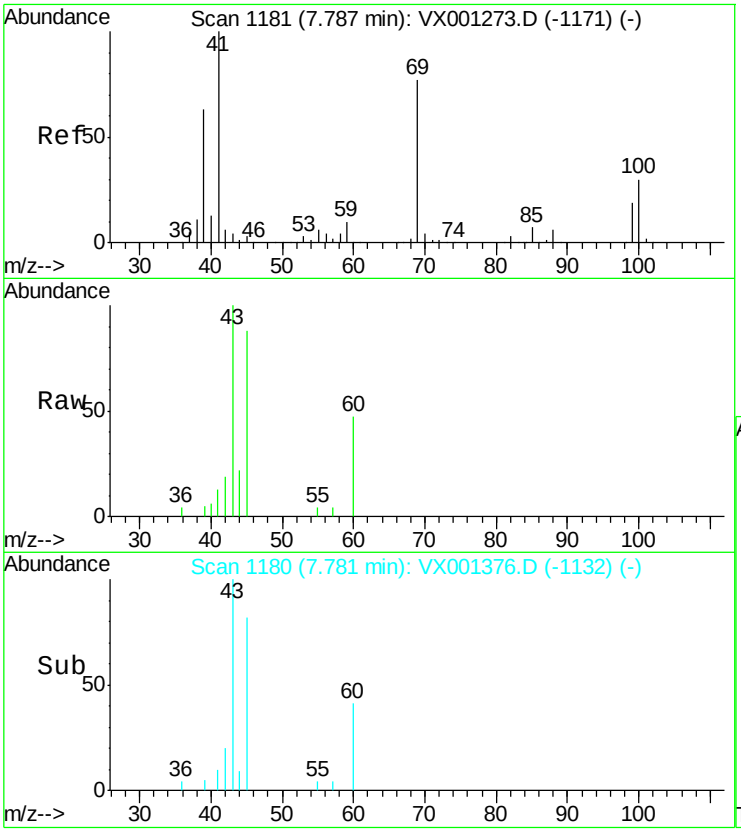


#44
Trichloroethene
Concen: 7.15 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:130 Resp: 15410

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	176.0



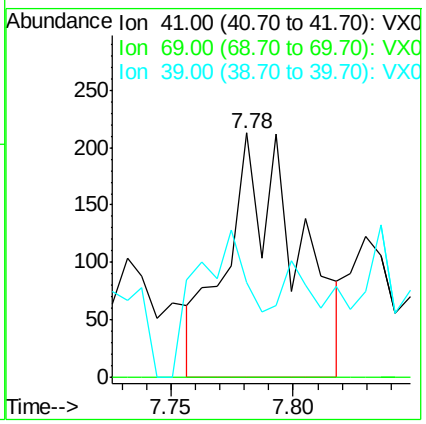


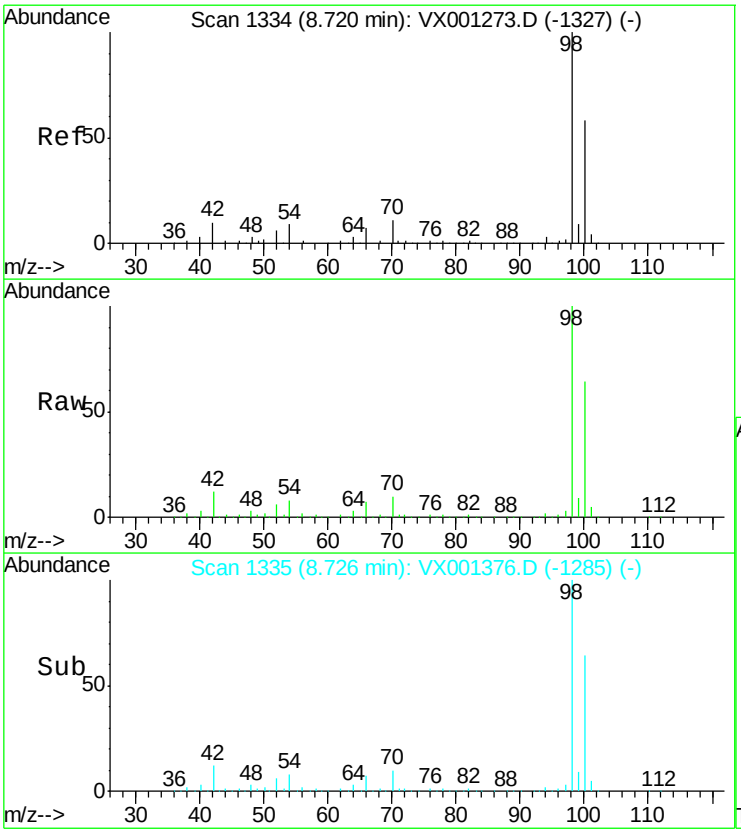
#48
Methyl methacrylate
Concen: 0.20 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 41 Resp: 427

Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.0	94.6#
39	46.1	50.2	75.4#

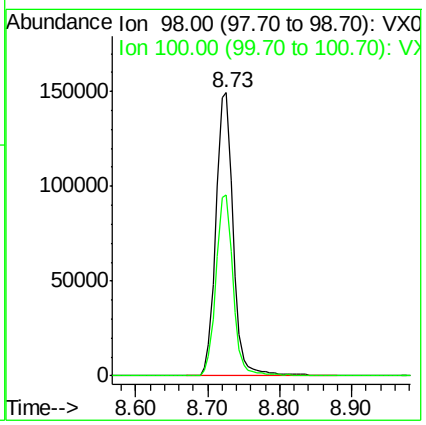


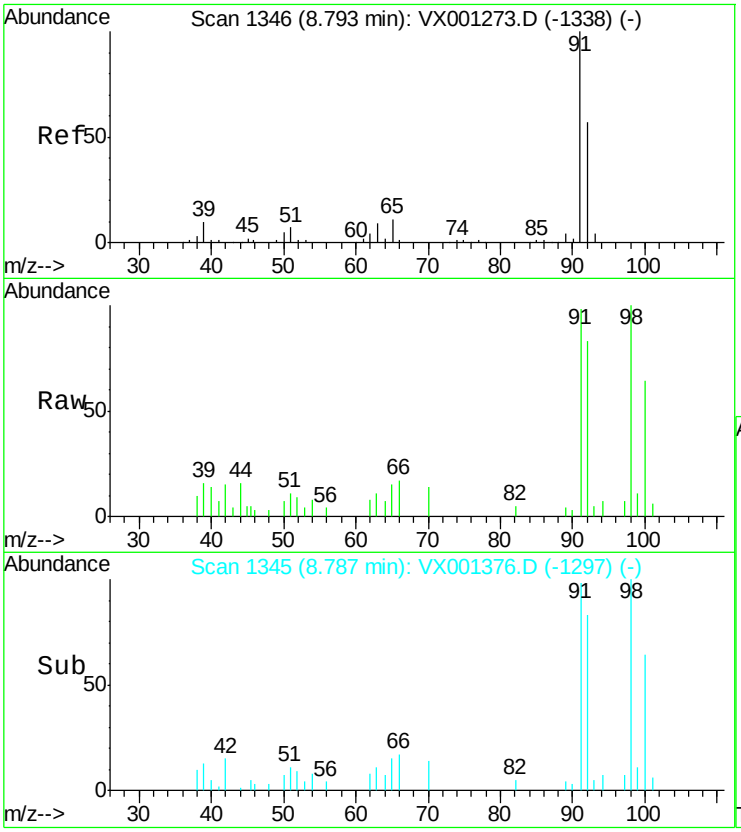


#50
Toluene-d8
Concen: 38.05 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 98 Resp: 248198

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.0	76.4



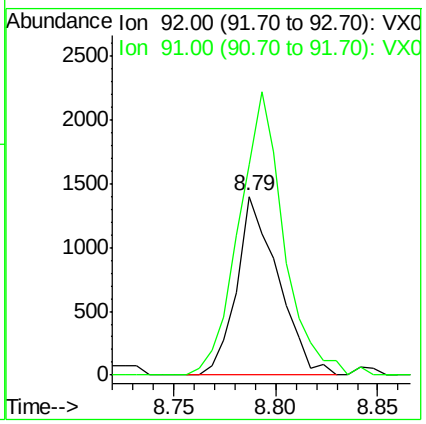


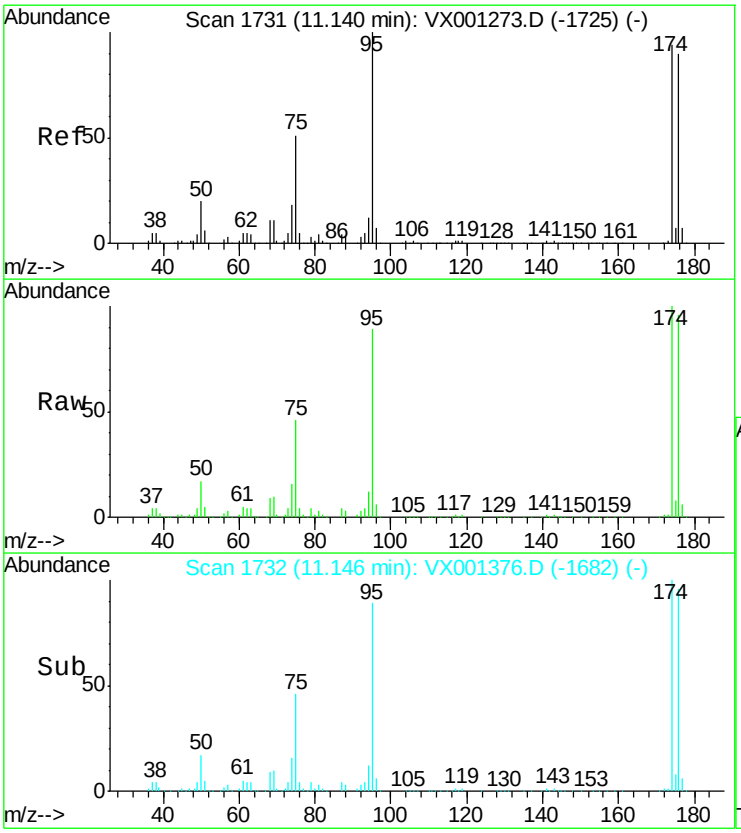
#52
Toluene
Concen: 0.43 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 92 Resp: 1973

Ion	Ratio	Lower	Upper
92	100		
91	172.0	139.0	208.6

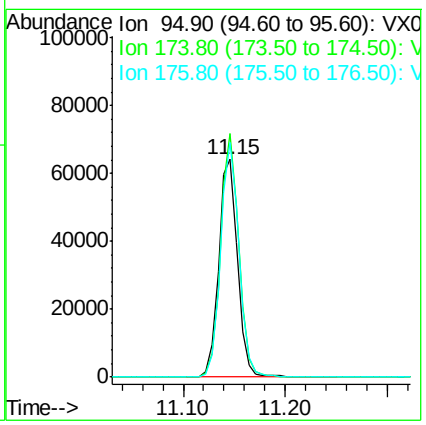


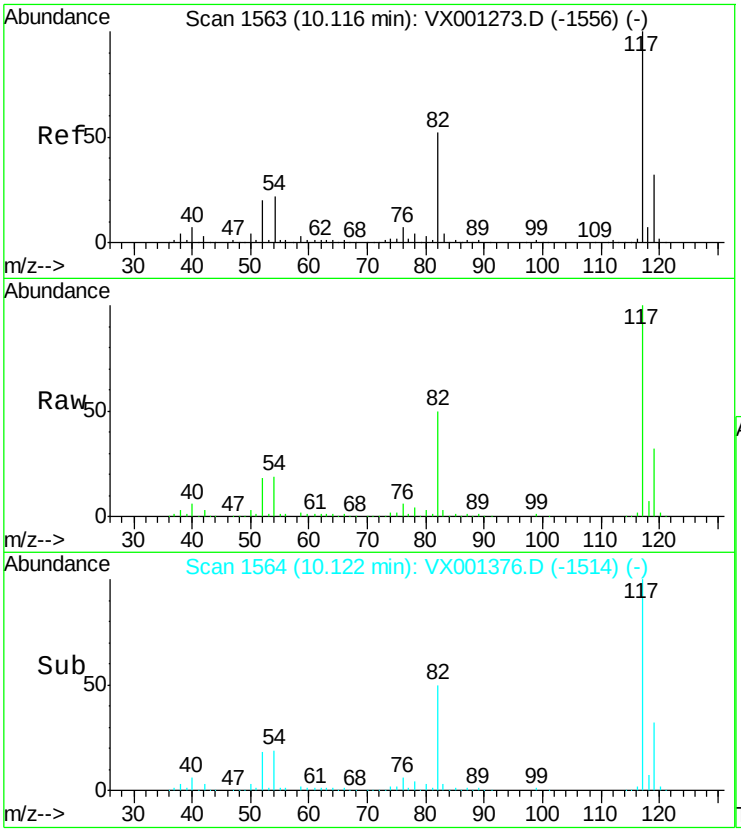


#62
4-Bromofluorobenzene
Concen: 31.78 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 95 Resp: 82902

Ion	Ratio	Lower	Upper
95	100		
174	107.7	0.0	201.8
176	104.5	0.0	197.2



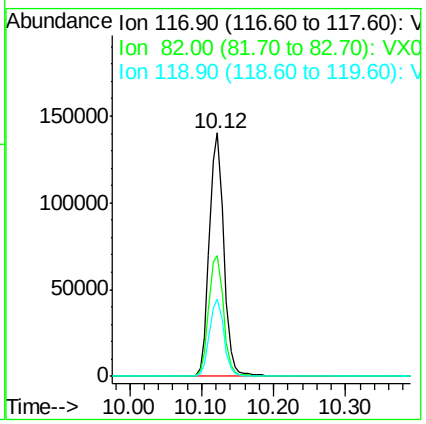


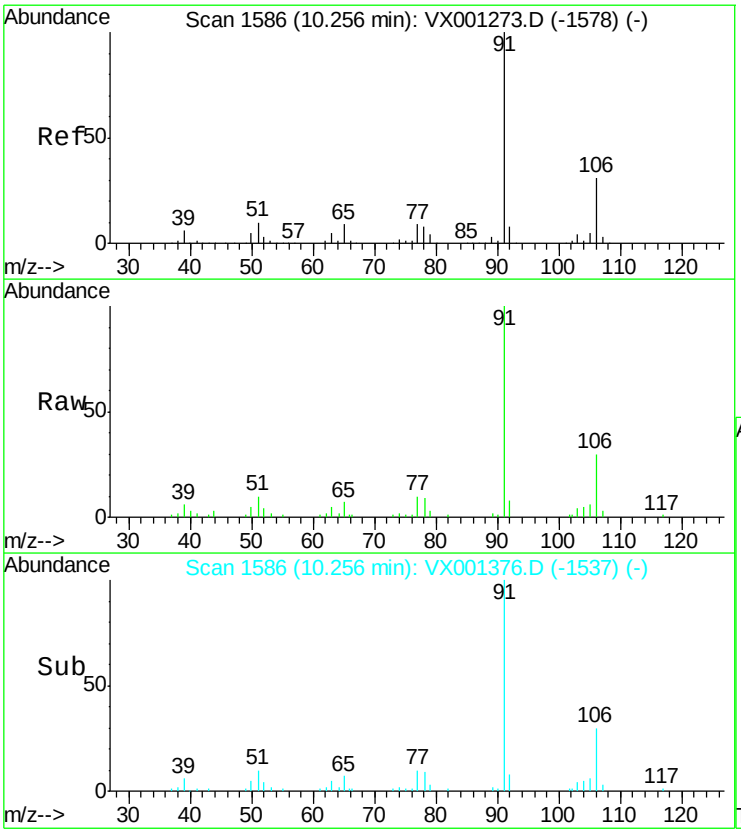
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:117 Resp: 194969

Ion	Ratio	Lower	Upper
117	100		
82	49.7	41.4	62.0
119	31.6	25.5	38.3

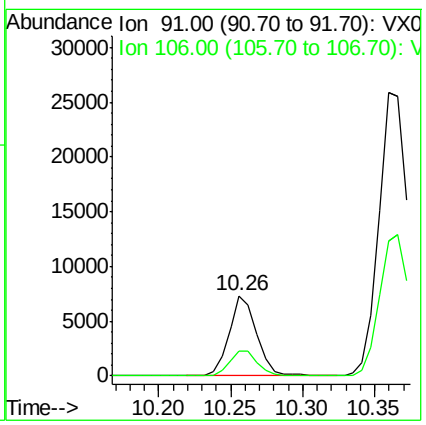


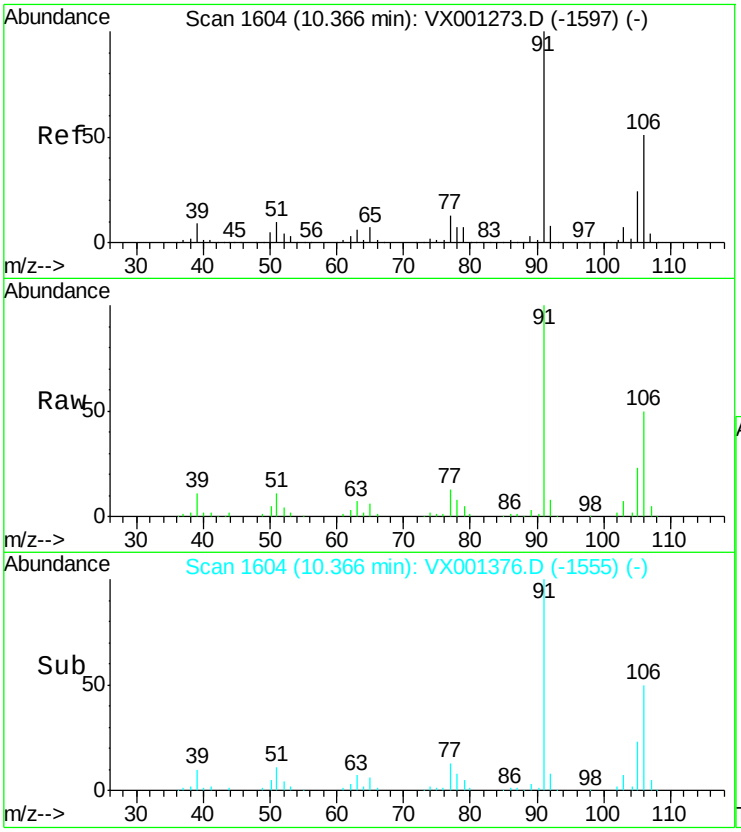


#67
Ethyl Benzene
Concen: 1.13 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 91 Resp: 9902

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.9	37.3



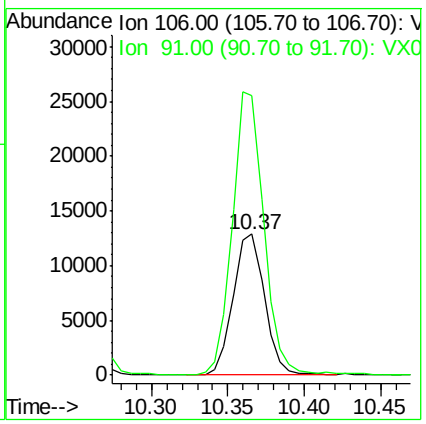


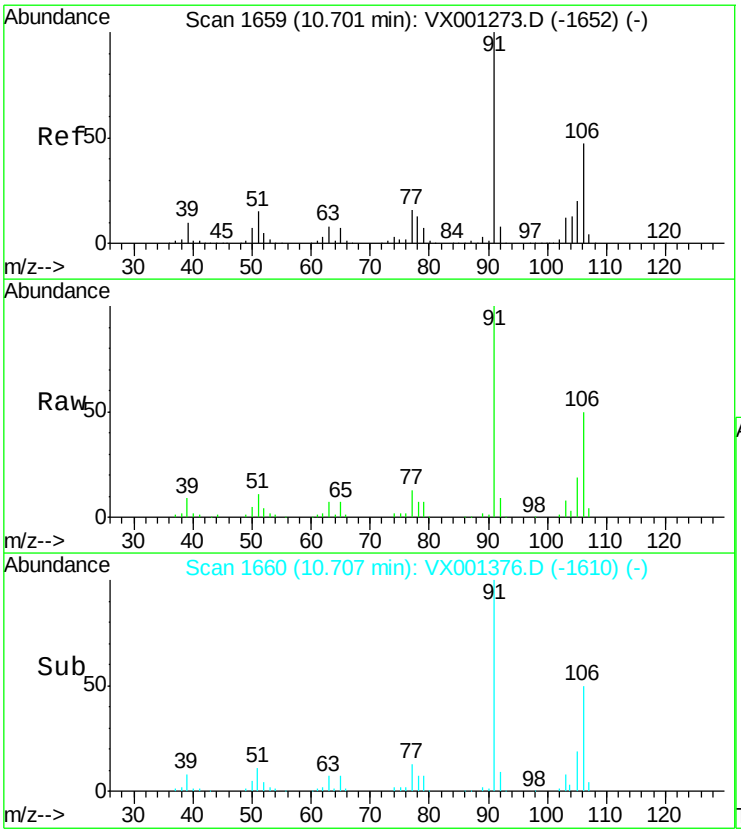
#68
m/p-Xylenes
Concen: 5.37 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:106 Resp: 18473

Ion	Ratio	Lower	Upper
106	100		
91	200.8	159.4	239.2

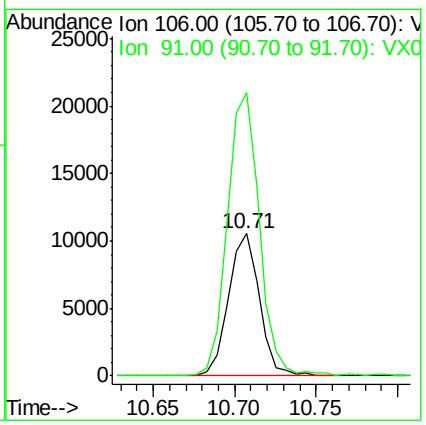


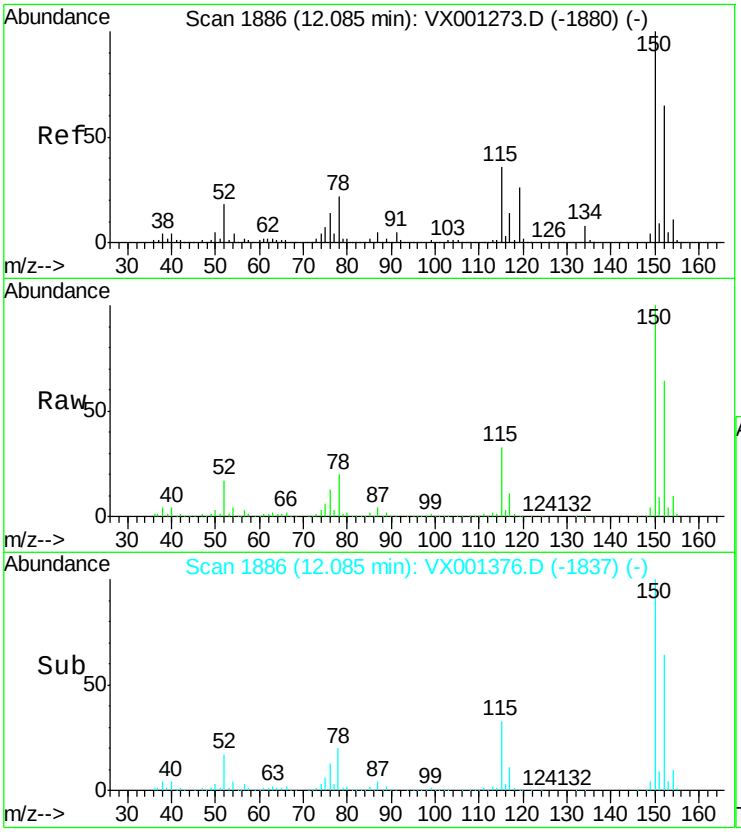


#69
o-Xylene
Concen: 4.15 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:106 Resp: 13850

Ion	Ratio	Lower	Upper
106	100		
91	207.1	106.3	319.0



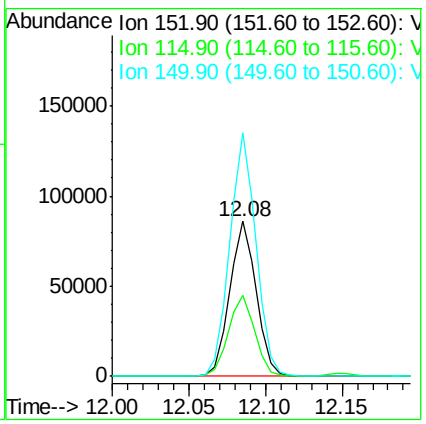


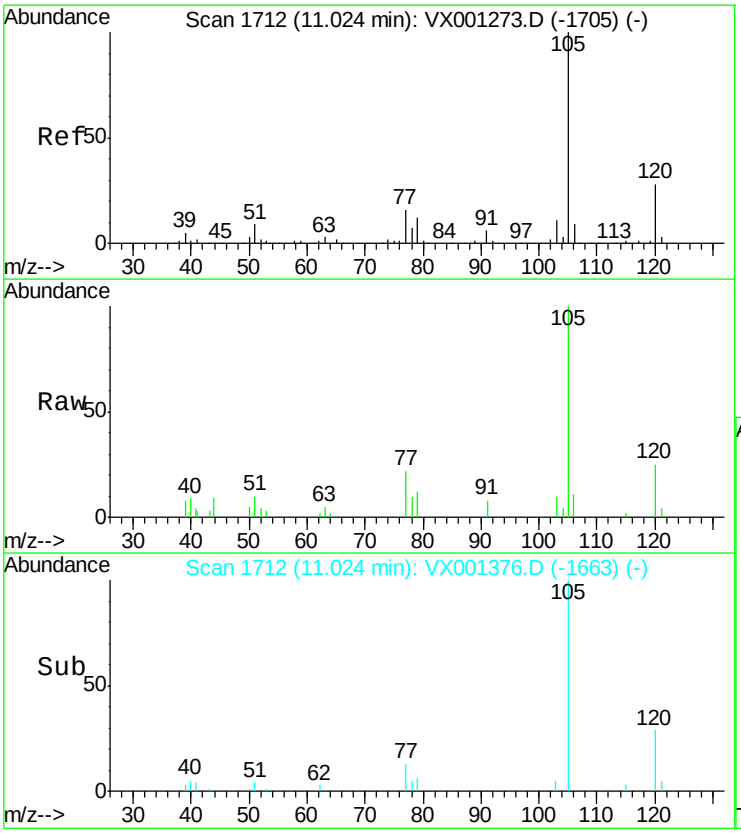
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:152 Resp: 102435

Ion	Ratio	Lower	Upper
152	100		
115	52.2	38.6	115.7
150	156.1	0.0	349.2

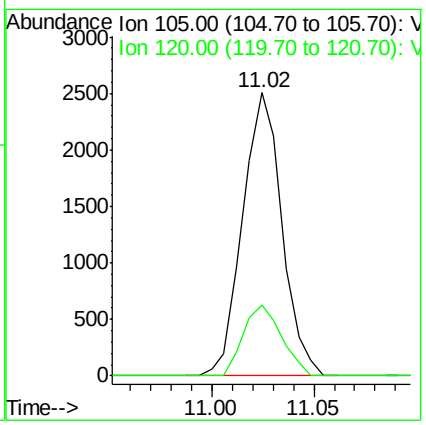


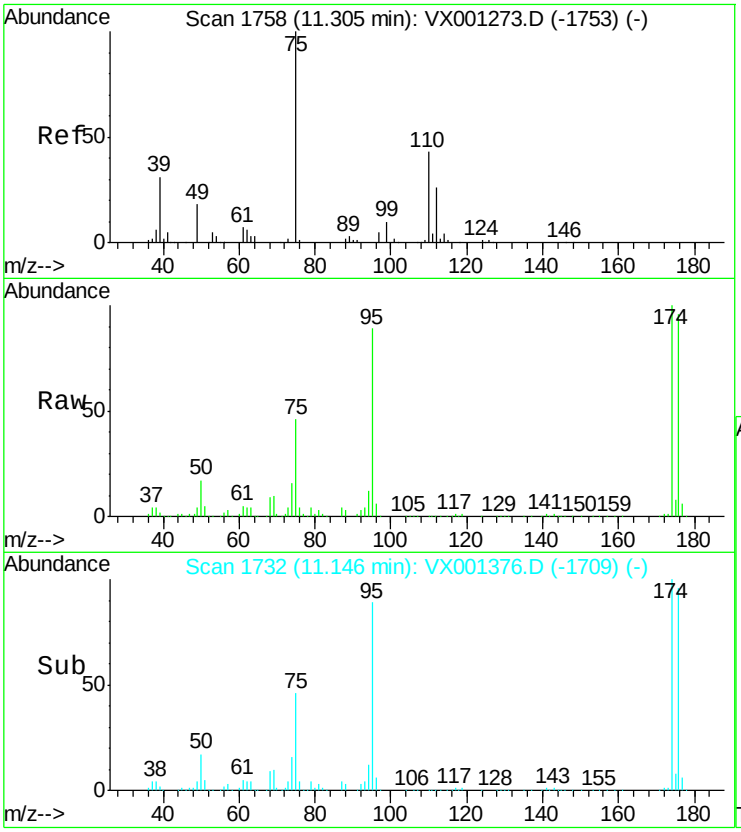


#73
Isopropylbenzene
Concen: 0.49 ug/l
RT: 11.02 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:105 Resp: 3357

Ion	Ratio	Lower	Upper
105	100		
120	24.2	13.7	41.1



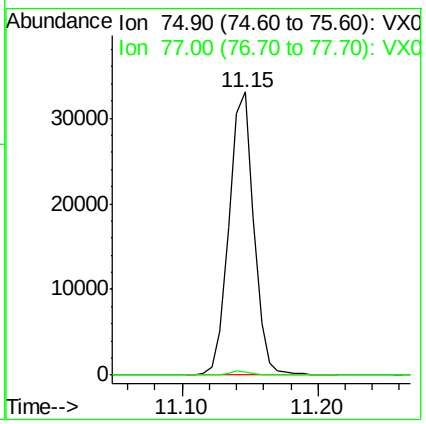


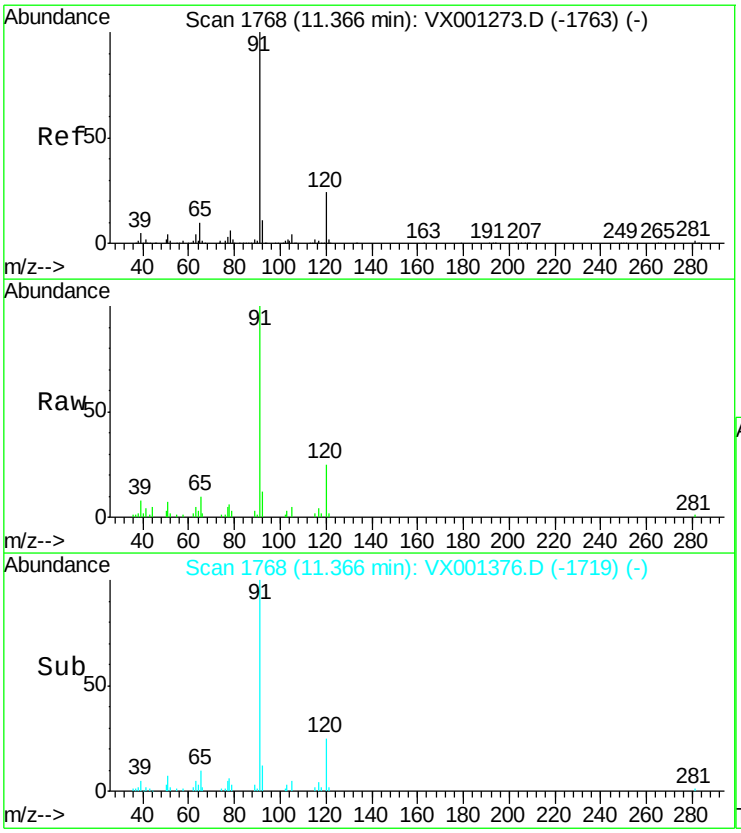
#76
1,2,3-Trichloropropane
Concen: 22.11 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.16 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 75 Resp: 41876

Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.9	56.5#

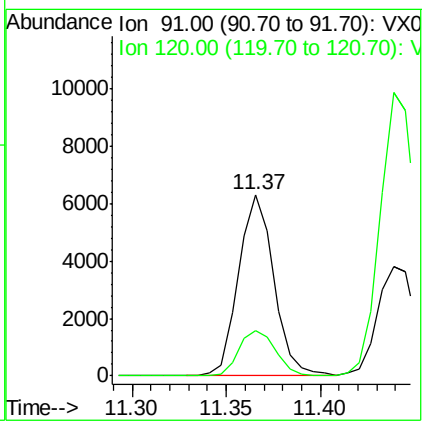


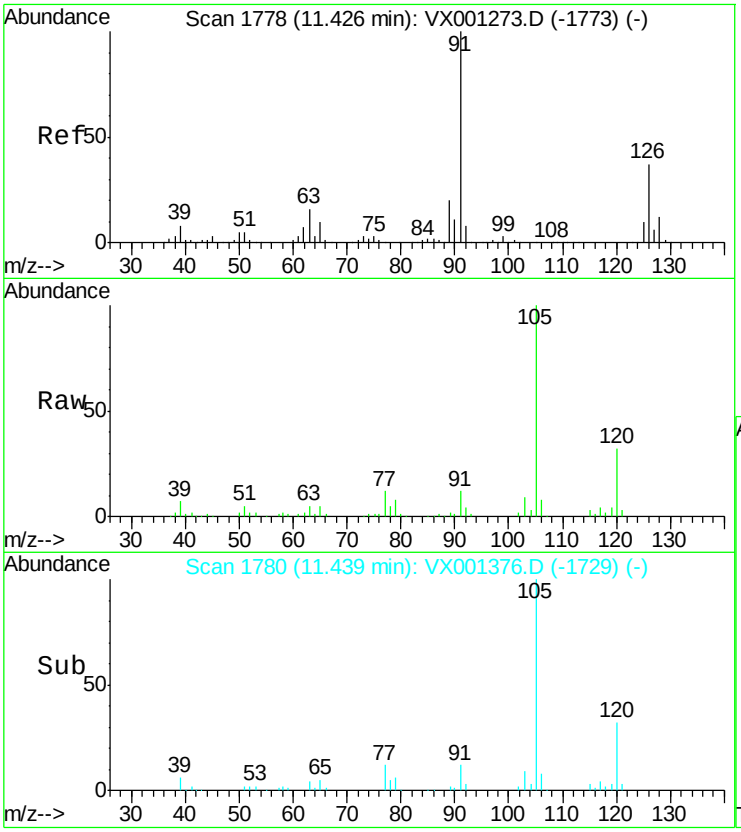


#78
n-propylbenzene
Concen: 1.08 ug/l
RT: 11.37 min Scan# 1768
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 91 Resp: 8229

Ion	Ratio	Lower	Upper
91	100		
120	25.8	12.3	36.8



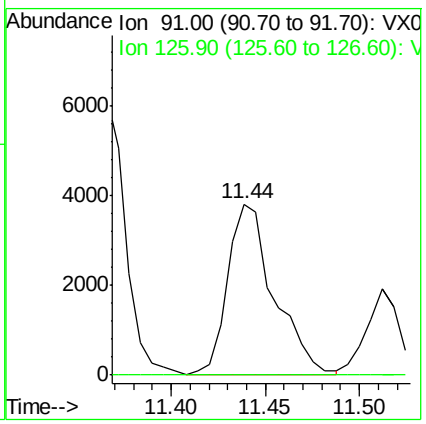


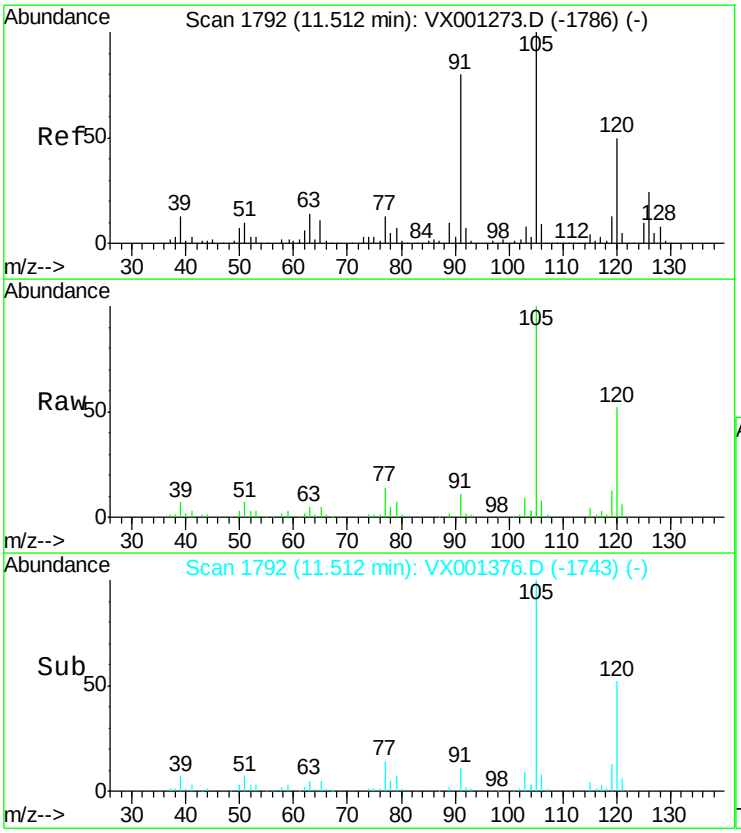
#79
2-Chlorotoluene
Concen: 1.43 ug/l
RT: 11.44 min Scan# 1780
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument : MSVOA_X
ClientSampleId : CS-1-OILY-STONE

Tgt Ion: 91 Resp: 6550

Ion	Ratio	Lower	Upper
91	100		
126	0.0	18.4	55.4#

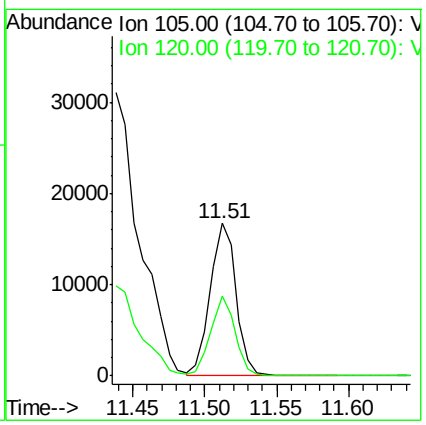


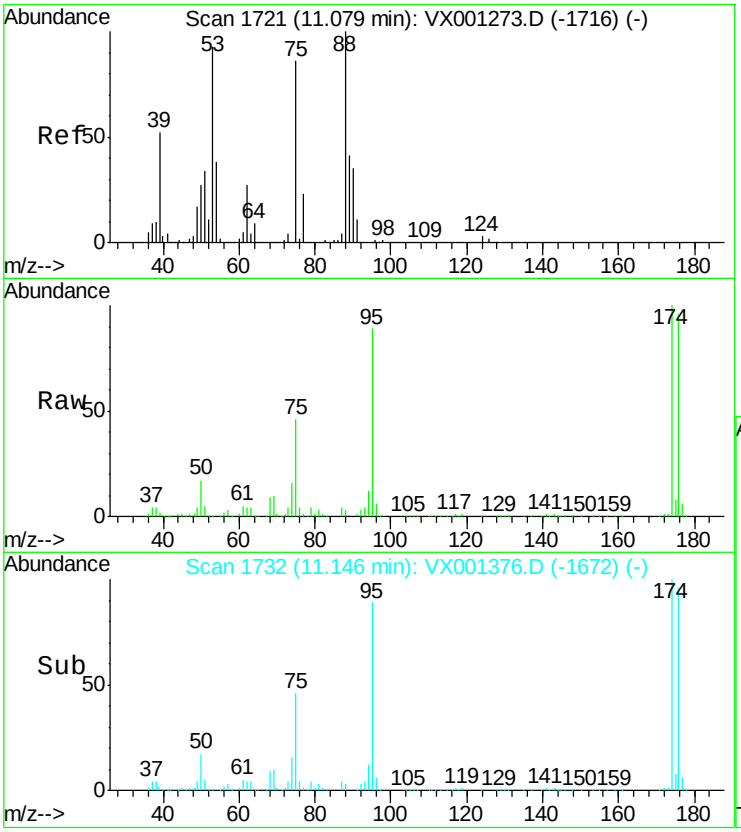


#80
1,3,5-Trimethylbenzene
Concen: 3.67 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:105 Resp: 21137

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.6	74.0



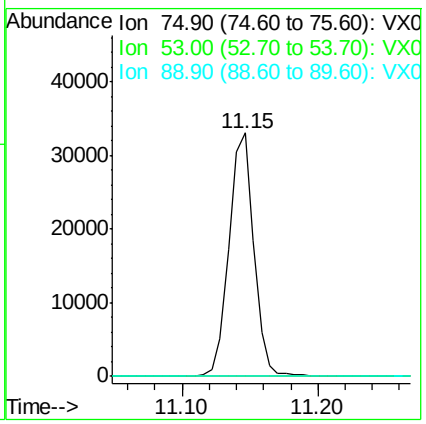


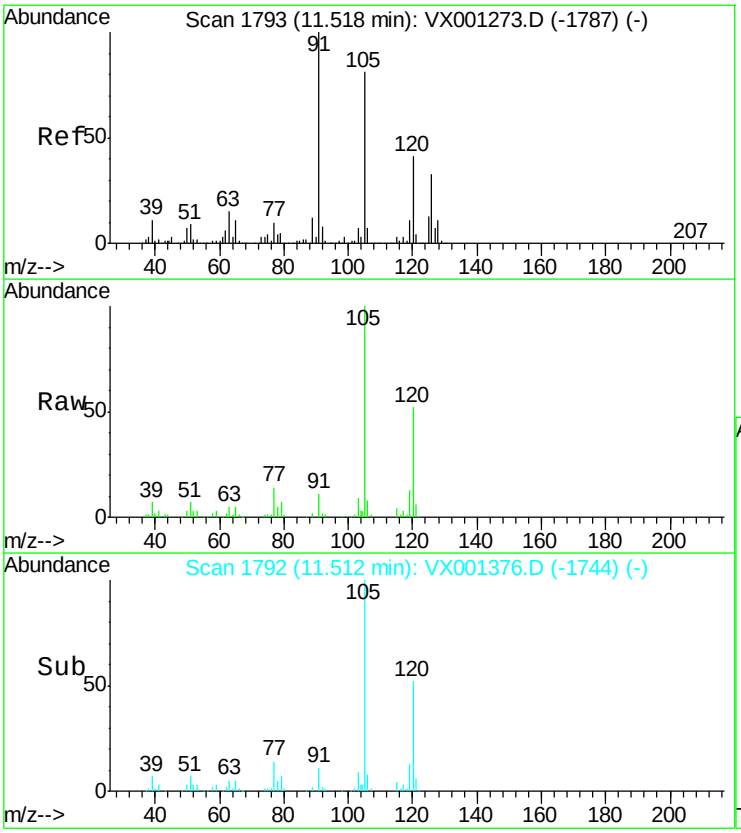
#81
trans-1,4-Dichloro-2-butene
Concen: 70.04 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.07 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 75 Resp: 41876

Ion	Ratio	Lower	Upper
75	100		
53	0.1	87.1	130.7#
89	0.0	38.9	58.3#

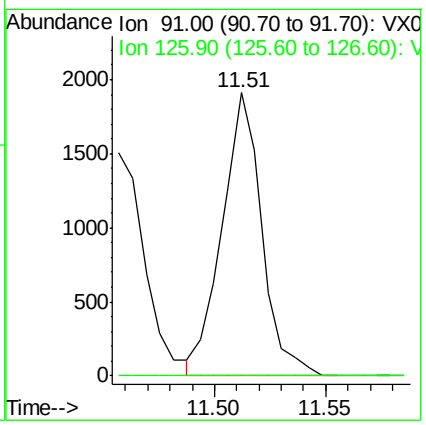


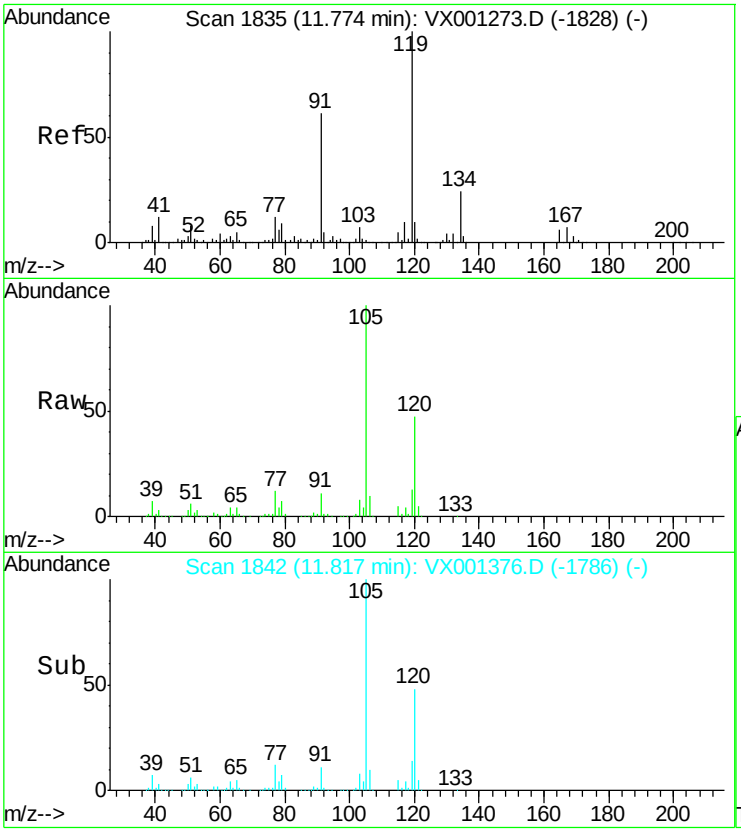


#82
4-Chlorotoluene
Concen: 0.43 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. -0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion: 91 Resp: 2372

Ion	Ratio	Lower	Upper
91	100		
126	0.0	16.1	48.2#



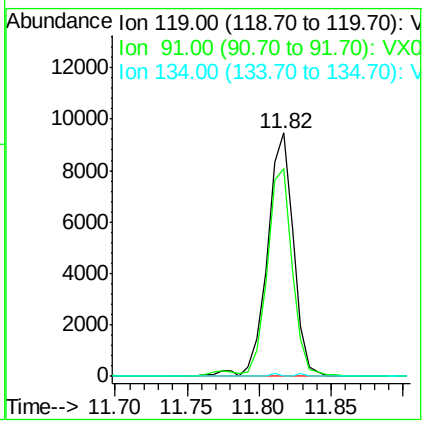


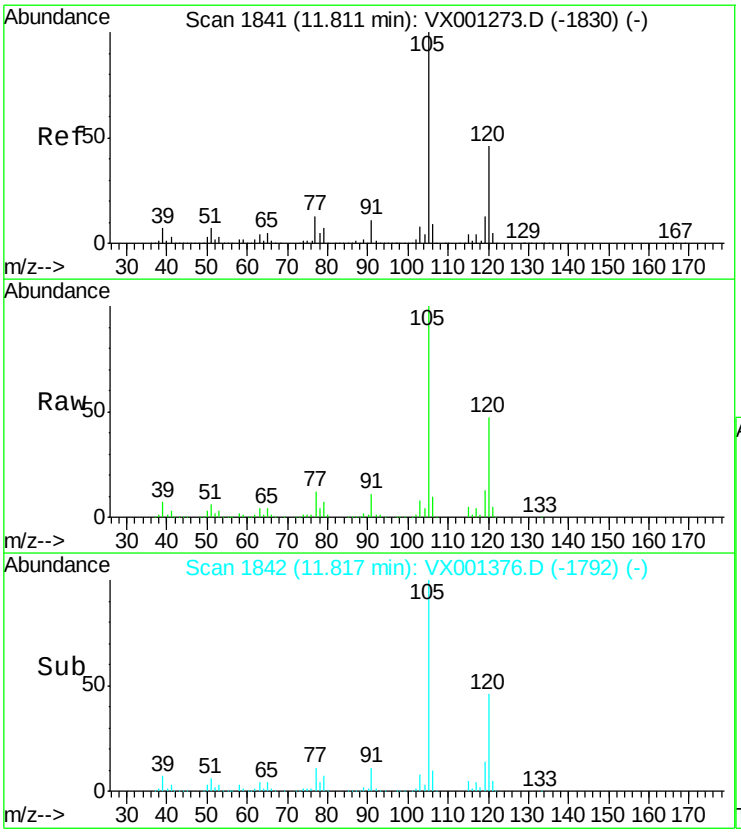
#83
tert-Butylbenzene
Concen: 2.07 ug/l
RT: 11.82 min Scan# 1842
Delta R.T. 0.04 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:119 Resp: 11864

Ion	Ratio	Lower	Upper
119	100		
91	82.0	28.1	84.3
134	0.0	11.8	35.3#

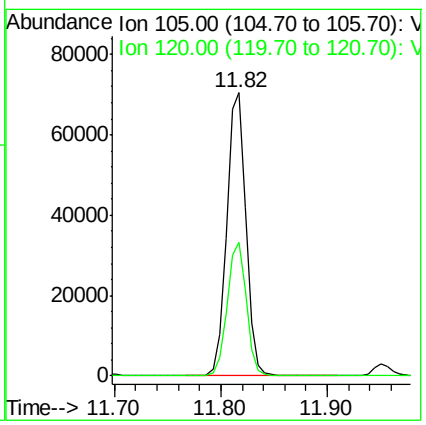


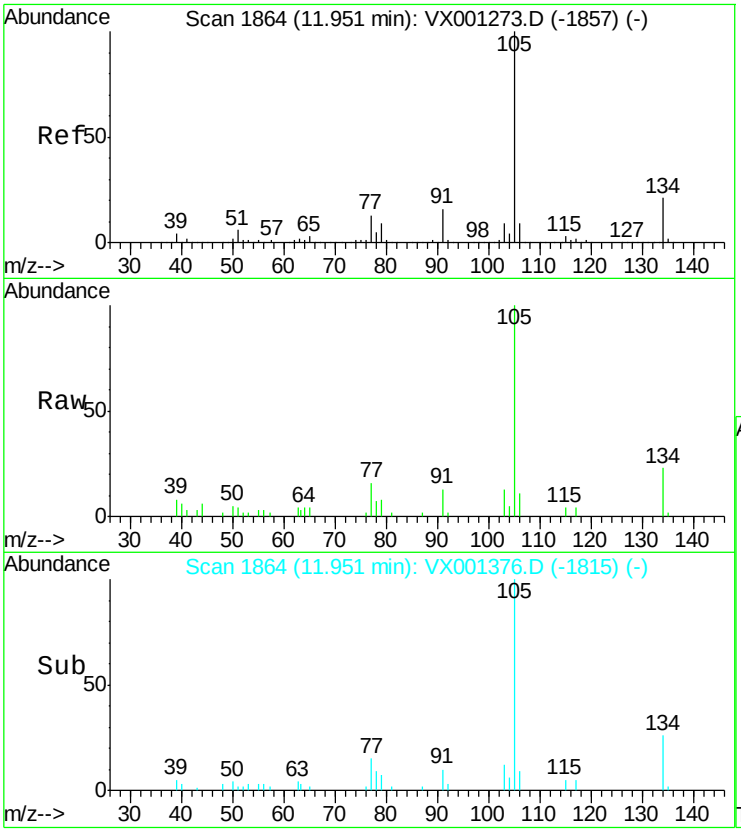


#84
1,2,4-Trimethylbenzene
Concen: 15.08 ug/l
RT: 11.82 min Scan# 1842
Delta R.T. 0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:105 Resp: 88949

Ion	Ratio	Lower	Upper
105	100		
120	47.0	22.7	68.1



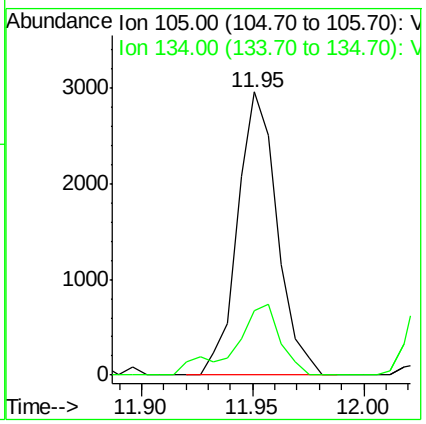


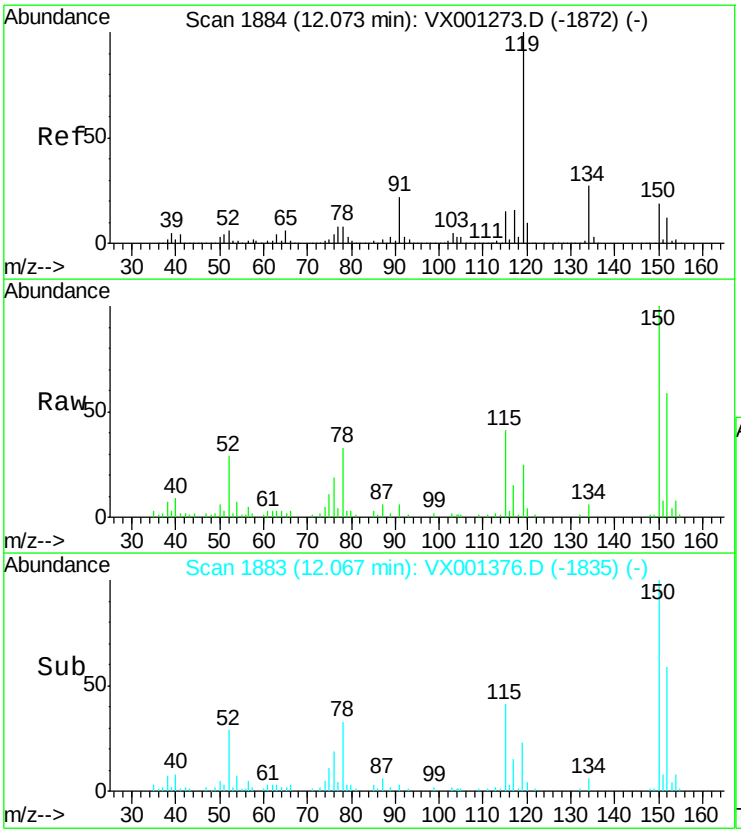
#85
sec-Butylbenzene
Concen: 0.53 ug/l
RT: 11.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion:105 Resp: 3672

Ion	Ratio	Lower	Upper
105	100		
134	28.9	10.7	31.9

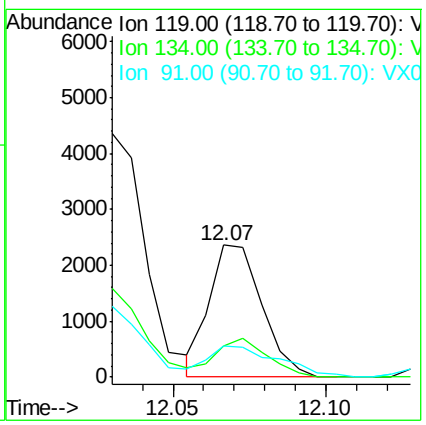


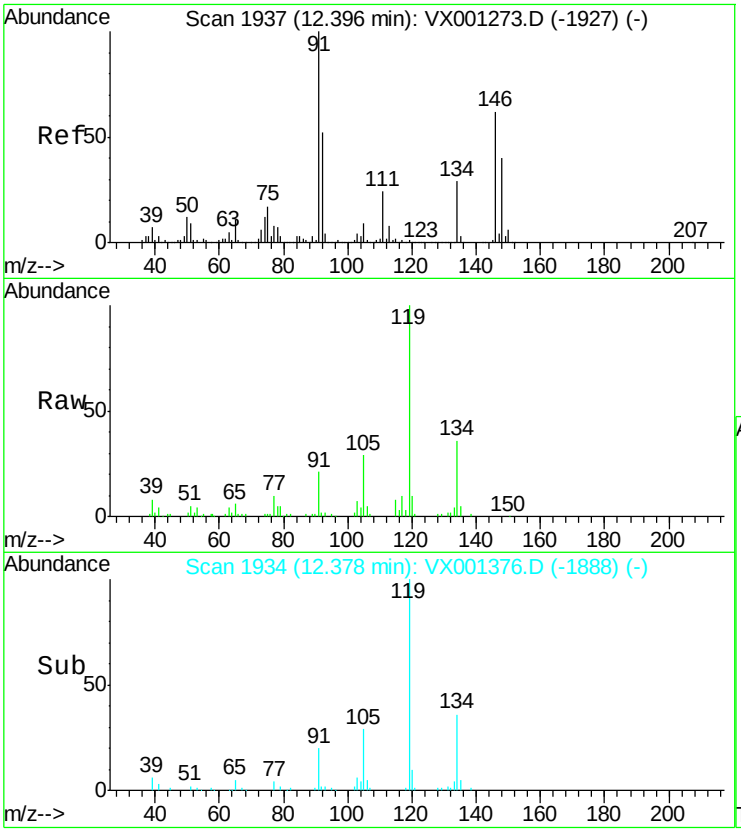


#86
p-Isopropyltoluene
Concen: 0.45 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:119 Resp: 2812

Ion	Ratio	Lower	Upper
119	100		
134	29.5	13.6	40.7
91	31.7	11.7	35.1



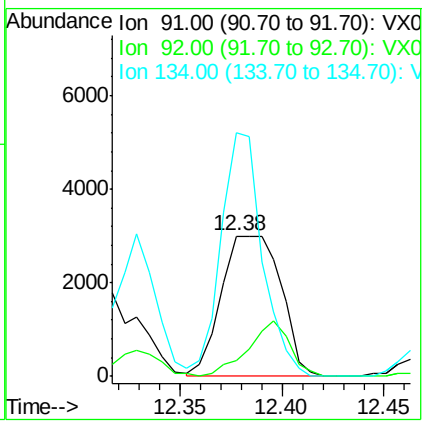


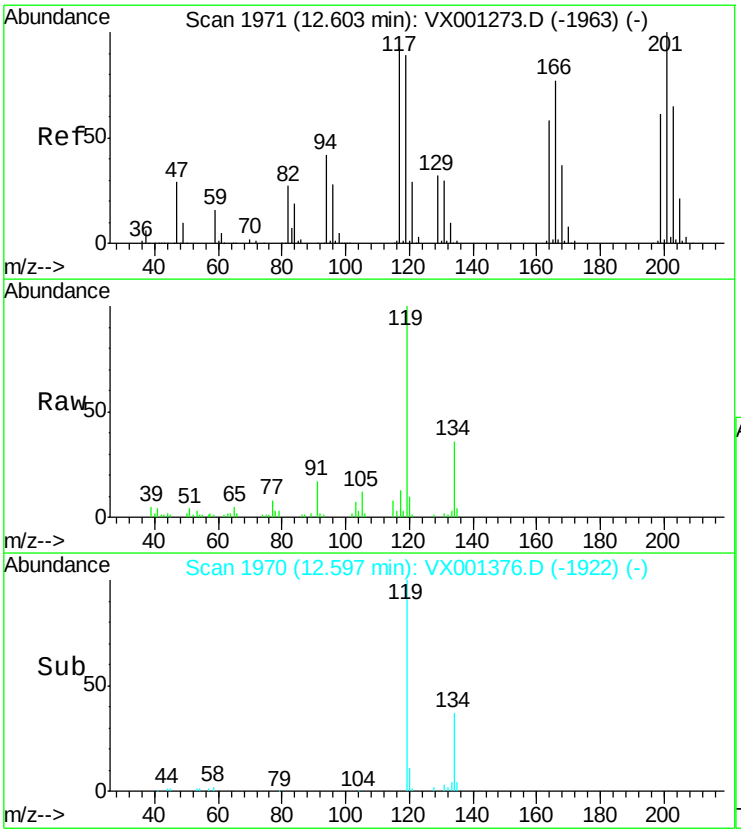
#89
n-Butylbenzene
Concen: 1.11 ug/l
RT: 12.38 min Scan# 1934
Delta R.T. -0.02 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 91 Resp: 6091

Ion	Ratio	Lower	Upper
91	100		
92	27.8	26.2	78.5
134	119.9	14.0	42.0#

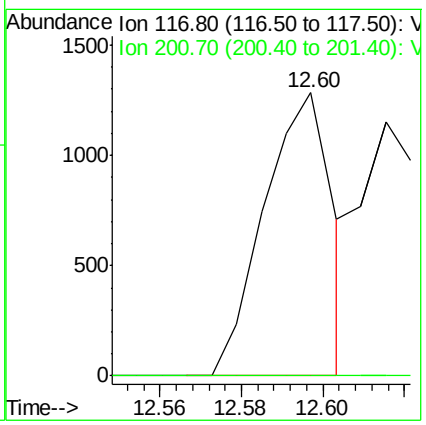


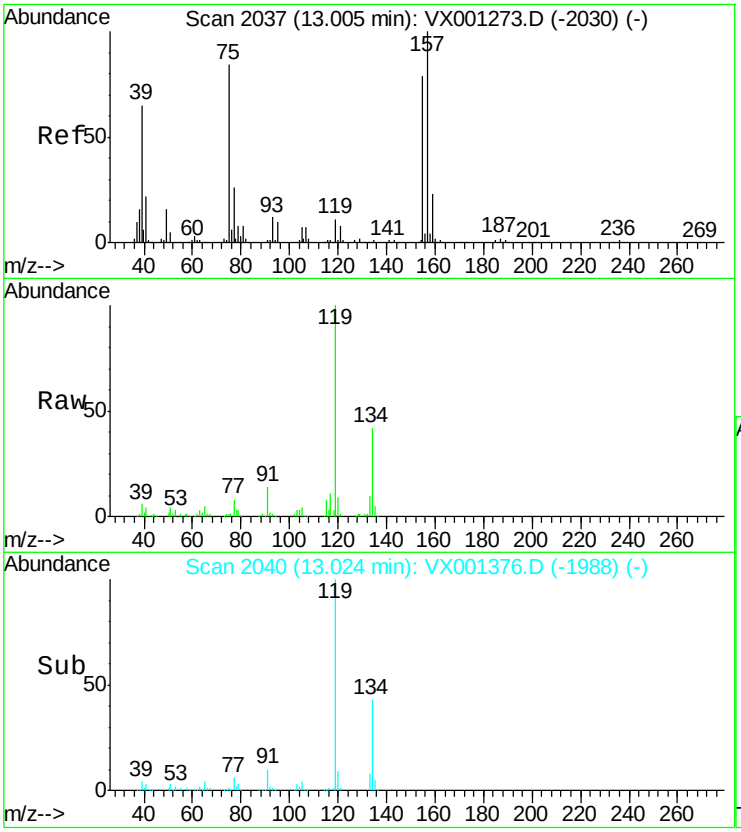


#90
Hexachloroethane
Concen: 1.63 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.01 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:117 Resp: 1489

Ion	Ratio	Lower	Upper
117	100		
201	0.0	51.6	154.8#



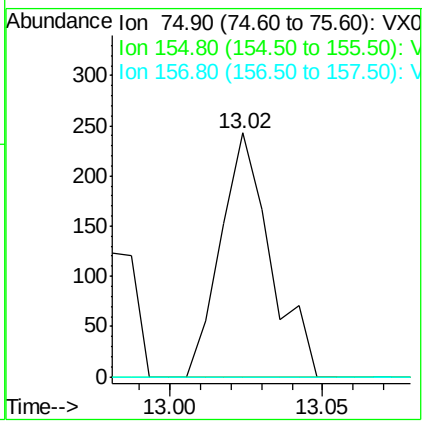


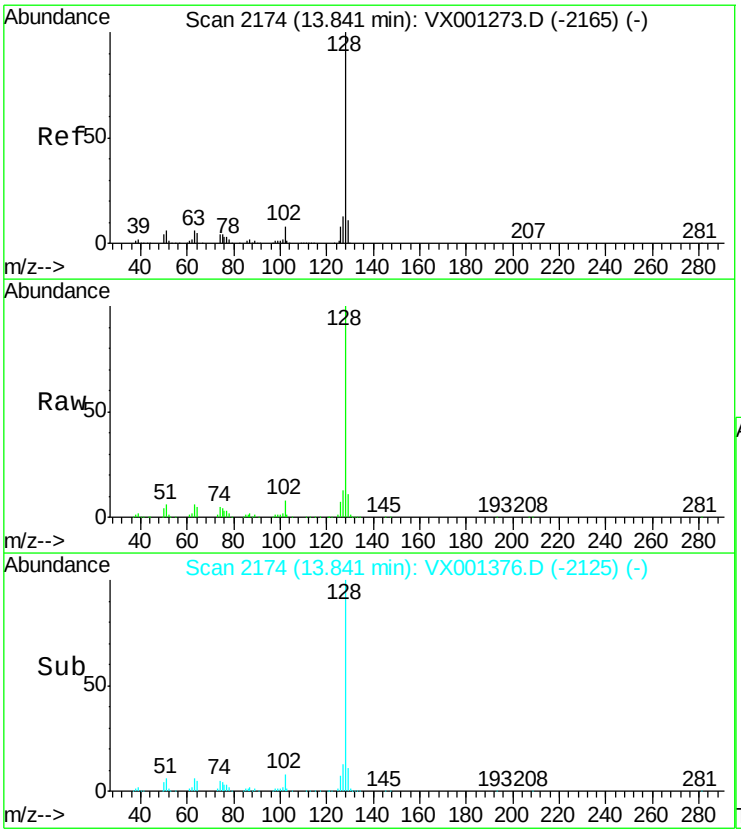
#92
1,2-Dibromo-3-Chloropropane
Concen: 0.66 ug/l
RT: 13.02 min Scan# 2040
Delta R.T. 0.02 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Instrument :
MSVOA_X
ClientSampleId :
CS-1-OILY-STONE

Tgt Ion: 75 Resp: 272

Ion	Ratio	Lower	Upper
75	100		
155	0.0	49.9	149.7#
157	0.0	63.7	191.1#





#95
Naphthalene
Concen: 10.18 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX001376.D
Acq: 03 May 2018 22:54

Tgt Ion:128 Resp: 76335

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.4	8.7	13.1