Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX010620\
Data File : VX014423.D
Acq On : 06 Jan 2020 13:33
Operator : JC/SP
Sample : K6484-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 40121

Quant Time: Jan 06 17:17:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	587152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	891212	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	807943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	380082	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	314551	47.27	ug/l	0.00
Spiked Amount 50.000			Recovery = 94.54%			
35) Dibromofluoromethane	5.49	113	259233	47.85	ug/l	0.00
Spiked Amount 50.000			Recovery = 95.70%			
50) Toluene-d8	8.71	98	1063749	50.43	ug/l	0.00
Spiked Amount 50.000			Recovery = 100.86%			
62) 4-Bromofluorobenzene	11.13	95	374852	48.62	ug/l	0.00
Spiked Amount 50.000			Recovery = 97.24%			
Target Compounds						Qvalue
5) Bromomethane	1.64	94	1933	0.366	ug/l #	68
10) Methyl Iodide	2.50	142	4234	3.169	ug/l #	74
11) Tert butyl alcohol	3.01	59	6177	4.296	ug/l	98
12) 1,1-Dichloroethene	2.36	96	1256	0.222	ug/l #	1
13) Acrolein	2.31	56	273307	332.047	ug/l #	14
14) Allyl chloride	2.60	41	79851	7.918	ug/l #	60
15) Acrylonitrile	3.13	53	699	0.208	ug/l #	72
16) Acetone	2.44	43	3535969	818.468	ug/l	90
17) Carbon Disulfide	2.57	76	2365	0.899	ug/l #	81
18) Methyl Acetate	2.60	43	208094	24.308	ug/l #	51
20) Methylene Chloride	2.85	84	20361	2.993	ug/l	95
22) Diisopropyl ether	4.08	45	2120891	105.540	ug/l #	1
25) 2-Butanone	4.67	43	26472	4.970	ug/l	100
28) Bromochloromethane	5.01	49	402	0.546	ug/l #	47
29) Tetrahydrofuran	5.14	42	2239	0.752	ug/l #	36
36) 1,1-Dichloropropene	5.65	75	38780	4.742	ug/l #	51
37) Ethyl Acetate	4.67	43	26472	2.932	ug/l #	70
38) Carbon Tetrachloride	5.65	117	50286	6.750	ug/l #	15
42) 1,2-Dichloroethane	6.17	62	1969	0.231	ug/l	98
43) Isopropyl Acetate	6.45	43	3462	0.232	ug/l #	79
49) 1,4-Dioxane	7.75	88	496	3.331	ug/l #	1
52) Toluene	8.78	92	3283	0.206	ug/l	95
53) t-1,3-Dichloropropene	9.06	75	27214	3.091	ug/l #	46
56) Ethyl methacrylate	9.21	69	2211	0.221	ug/l #	1
59) 2-Hexanone	9.21	43	136626	18.084	ug/l	93
68) m/p-Xylenes	10.35	106	2948	0.260	ug/l	81
76) 1,2,3-Trichloropropane	11.13	75	179334	21.733	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	179334	61.343	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	2639	0.313	ug/l	83
94) Hexachlorobutadiene	13.78	225	899	0.222	ug/l	75
95) Naphthalene	13.83	128	8841	0.356	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	2345	0.281	ug/l	95

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX010620\
Data File : VX014423.D
Acq On : 06 Jan 2020 13:33
Operator : JC/SP
Sample : K6484-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
40121

Quant Time: Jan 06 17:17:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration

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

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

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX010620\
Data File : VX014423.D
Acq On : 06 Jan 2020 13:33
Operator : JC/SP
Sample : K6484-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
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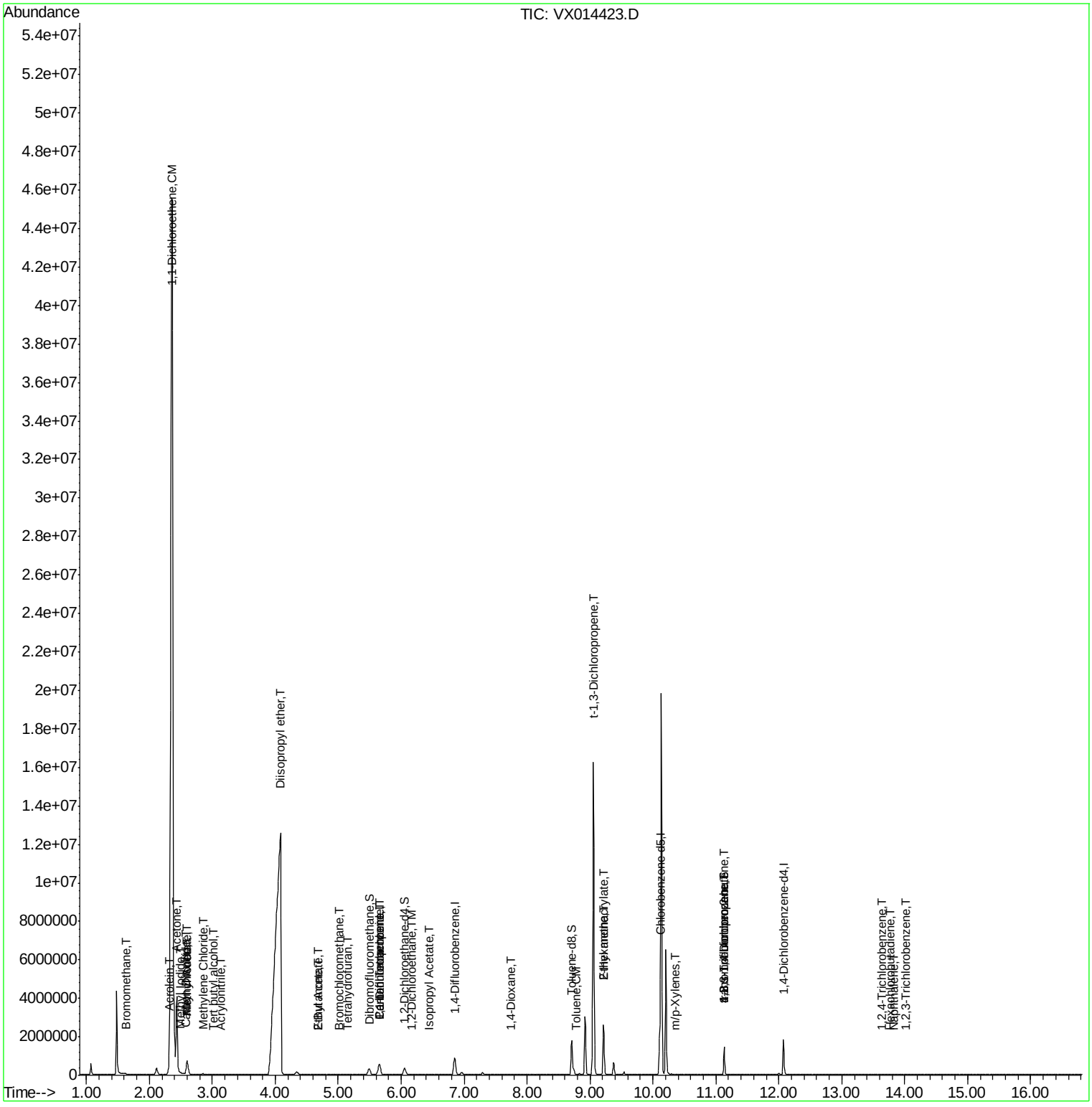
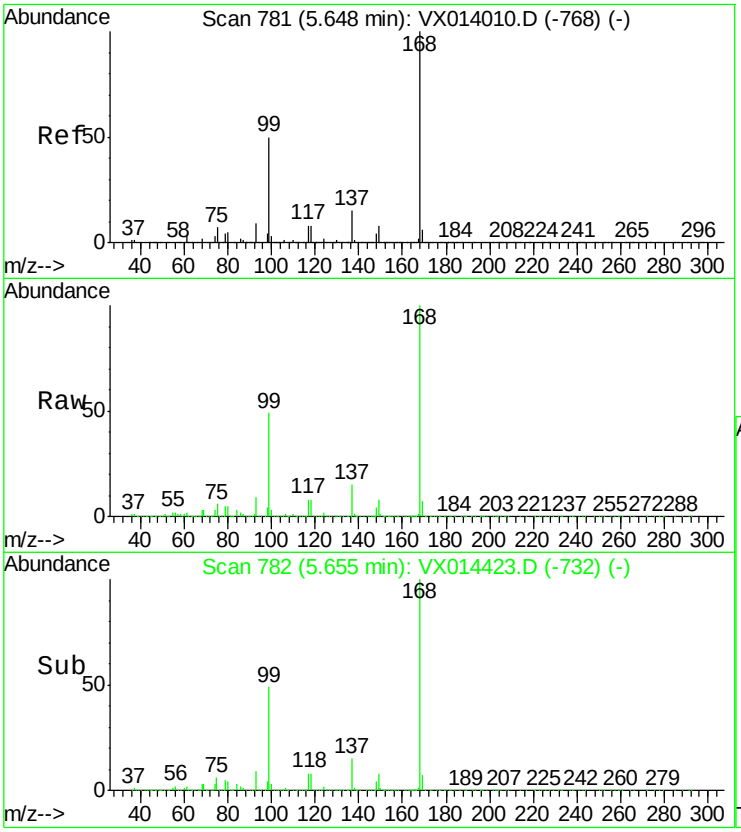
Quant Time: Jan 06 17:17:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration



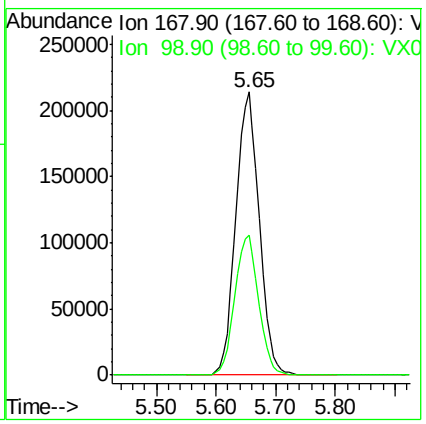


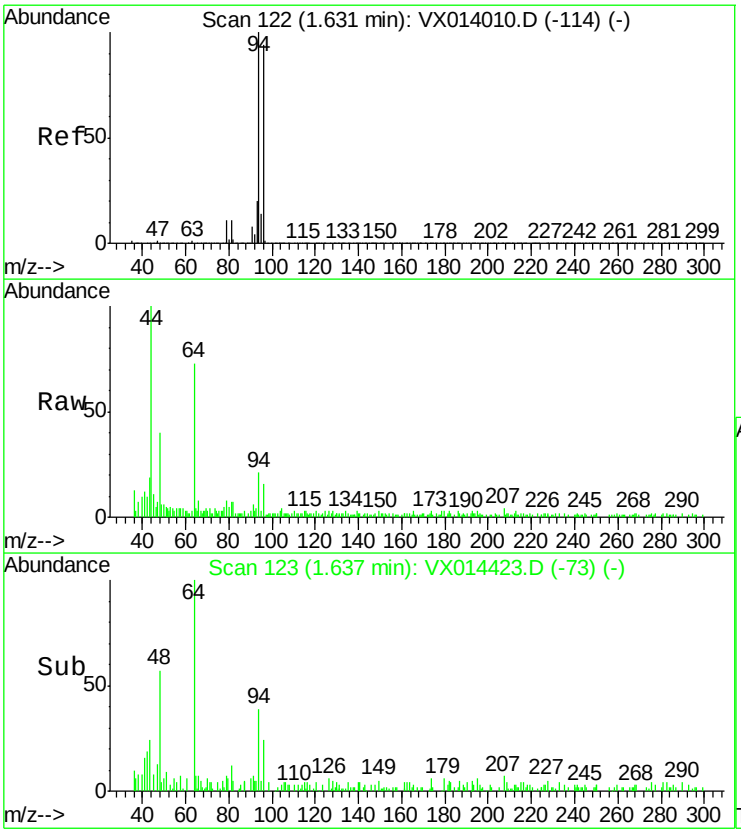
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:168 Resp: 587152

Ion	Ratio	Lower	Upper
168	100		
99	49.2	40.3	60.5

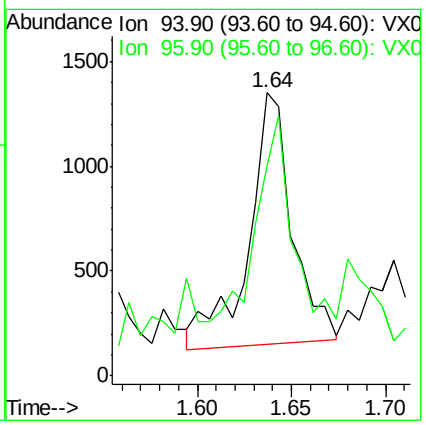


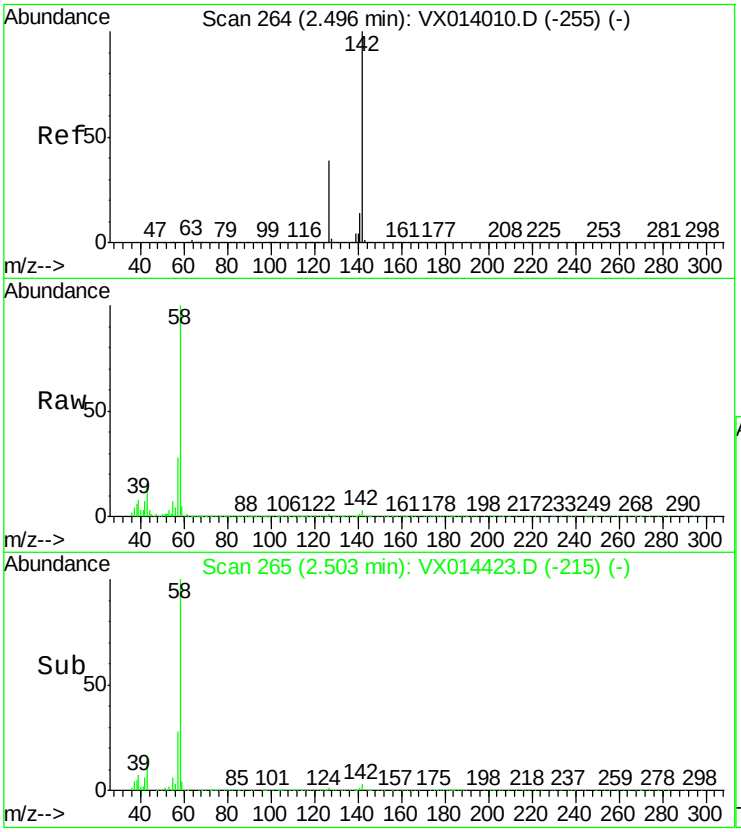


#5
Bromomethane
Concen: 0.366 ug/l
RT: 1.64 min Scan# 123
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 94 Resp: 1933

Ion	Ratio	Lower	Upper
94	100		
96	63.1	75.2	112.8#



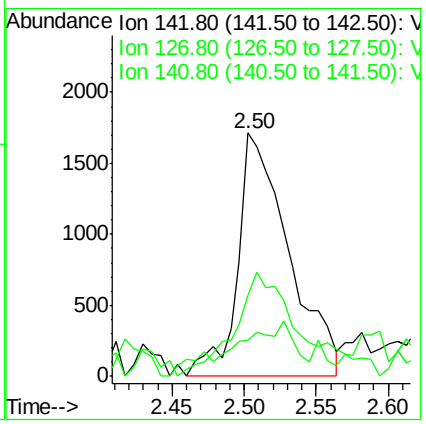


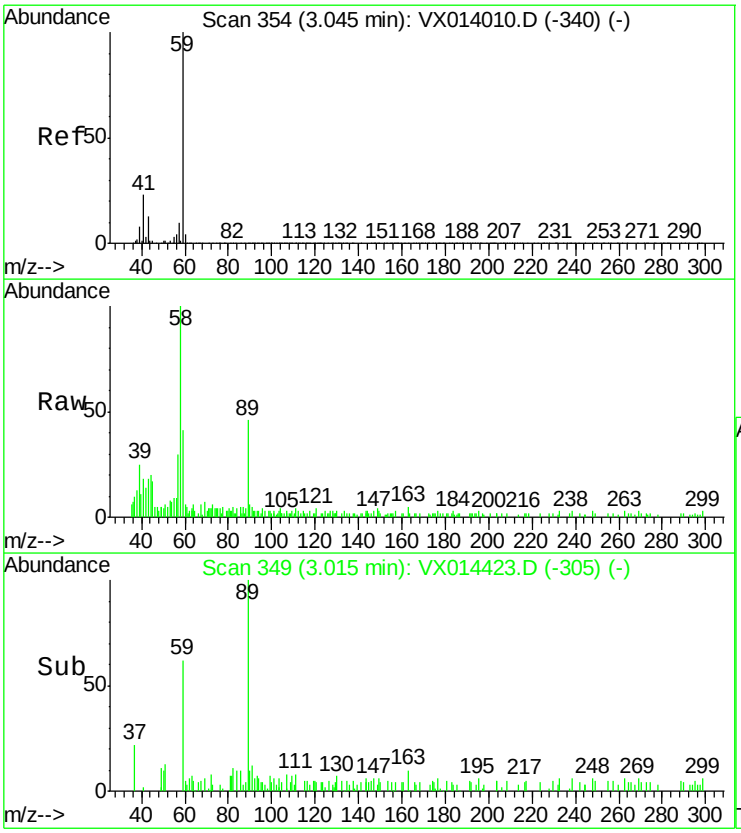
#10
Methyl Iodide
Concen: 3.169 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:142 Resp: 4234

Ion	Ratio	Lower	Upper
142	100		
127	53.4	31.6	47.4#
141	0.0	11.6	17.4#

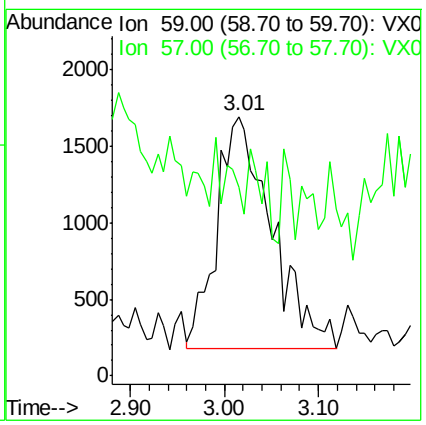


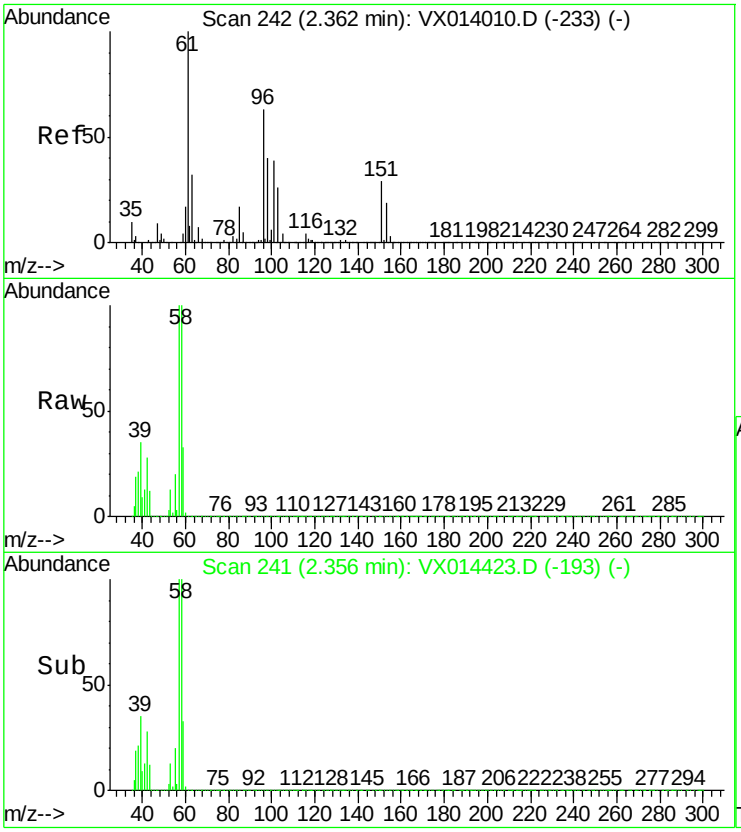


#11
Tert butyl alcohol
Concen: 4.296 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 59 Resp: 6177

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.4	12.6



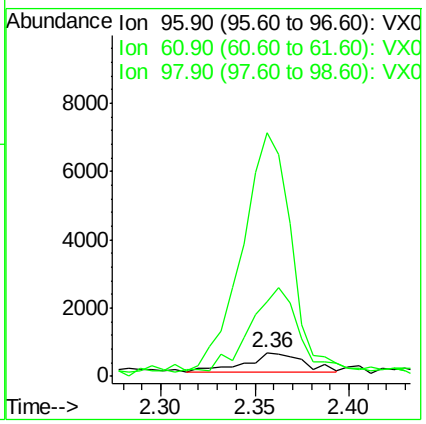


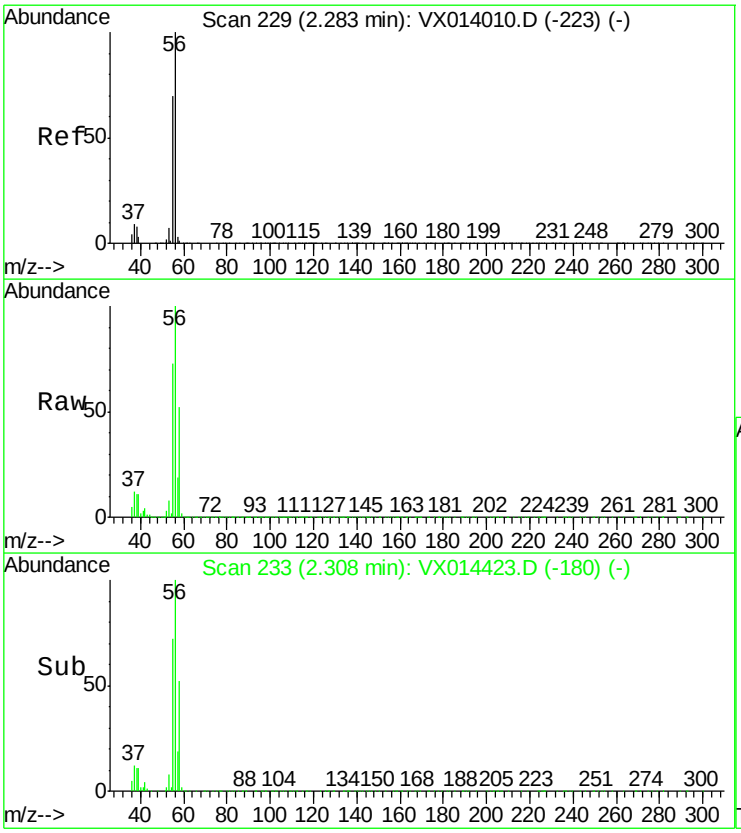
#12
1,1-Dichloroethene
Concen: 0.222 ug/l
RT: 2.36 min Scan# 241
Delta R.T. -0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 96 Resp: 1256

Ion	Ratio	Lower	Upper
96	100		
61	1192.5	127.9	191.9#
98	343.2	50.5	75.7#

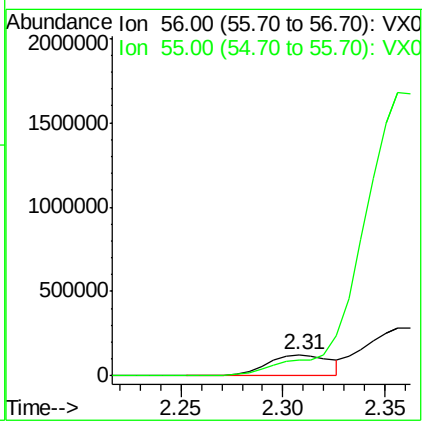


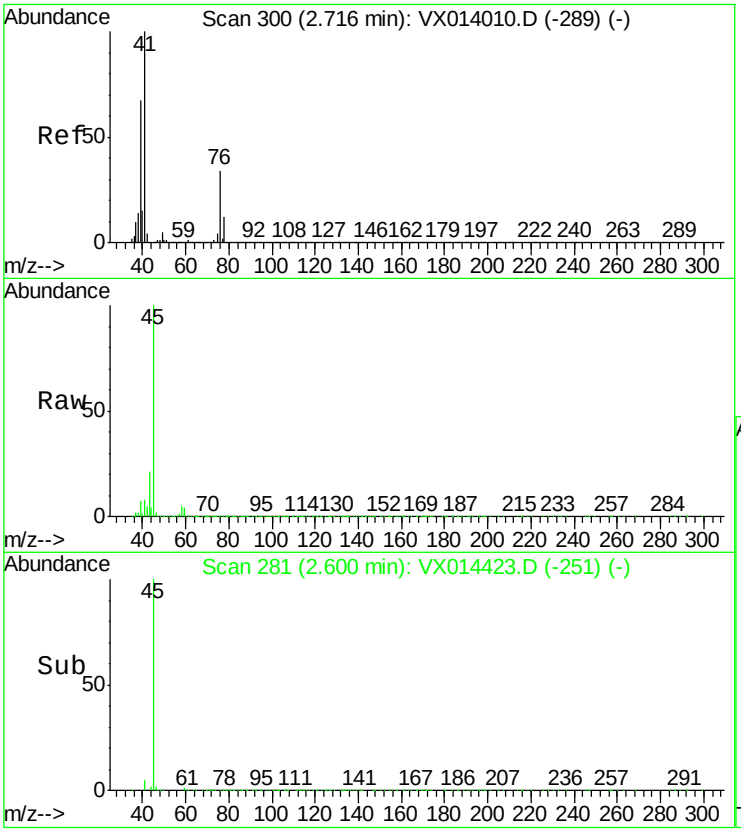


#13
Acrolein
Concen: 332.047 ug/l
RT: 2.31 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 56 Resp: 273307

Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.9	85.3#



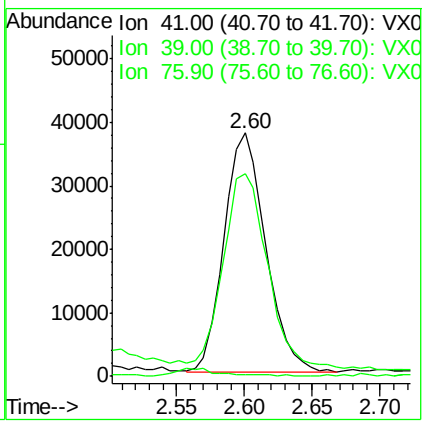


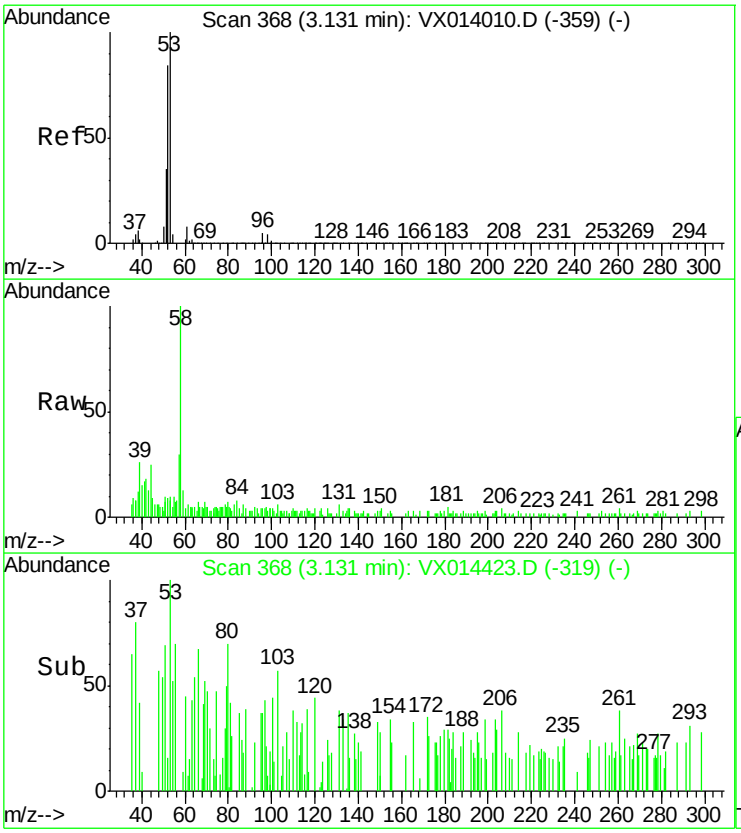
#14
Allyl chloride
Concen: 7.918 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.12 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 41 Resp: 79851

Ion	Ratio	Lower	Upper
41	100		
39	89.6	51.8	77.8#
76	0.0	25.9	38.9#

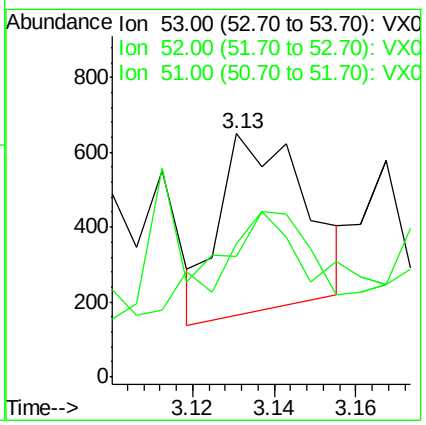


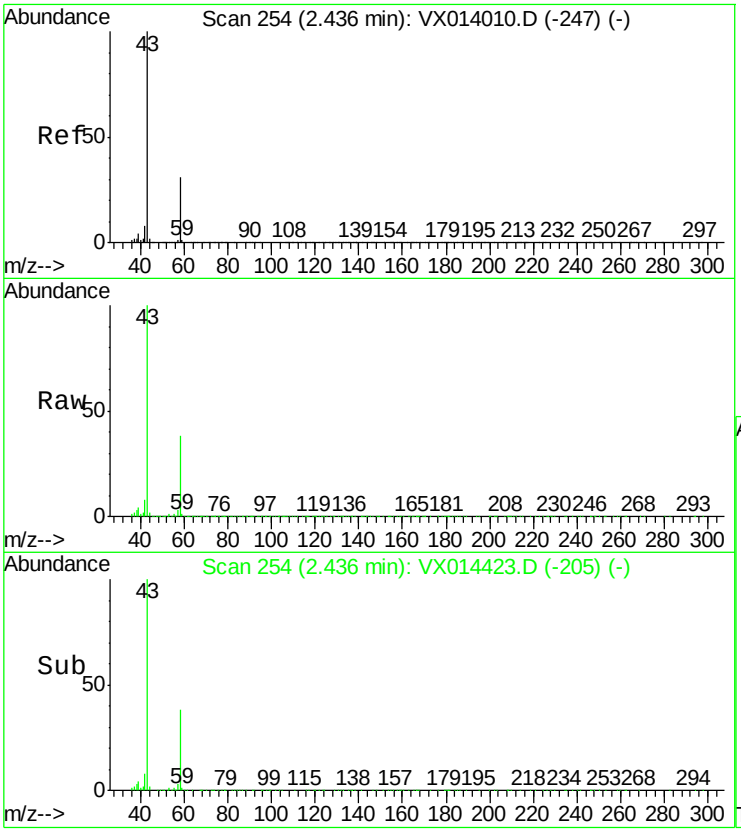


#15
Acrylonitrile
Concen: 0.208 ug/l
RT: 3.13 min Scan# 368
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 53 Resp: 699

Ion	Ratio	Lower	Upper
53	100		
52	65.4	66.5	99.7#
51	63.4	28.1	42.1#



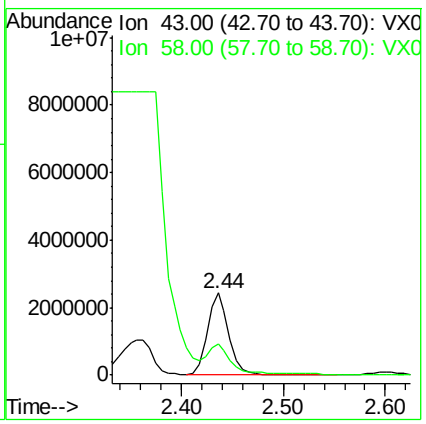


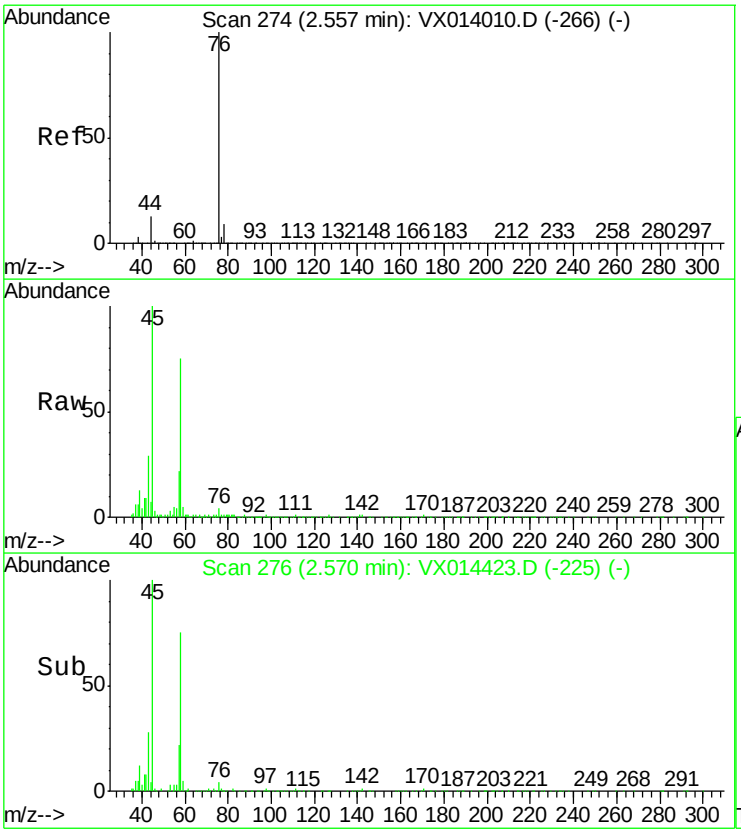
#16
Acetone
Concen: 818.468 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument :
MSVOA_X
ClientSampleId :
40121

Tgt Ion: 43 Resp: 3535969

Ion	Ratio	Lower	Upper
43	100		
58	36.9	24.9	37.3

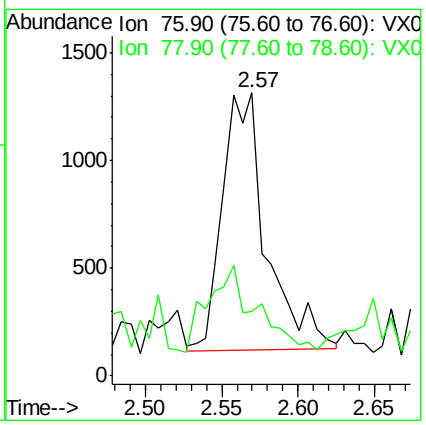


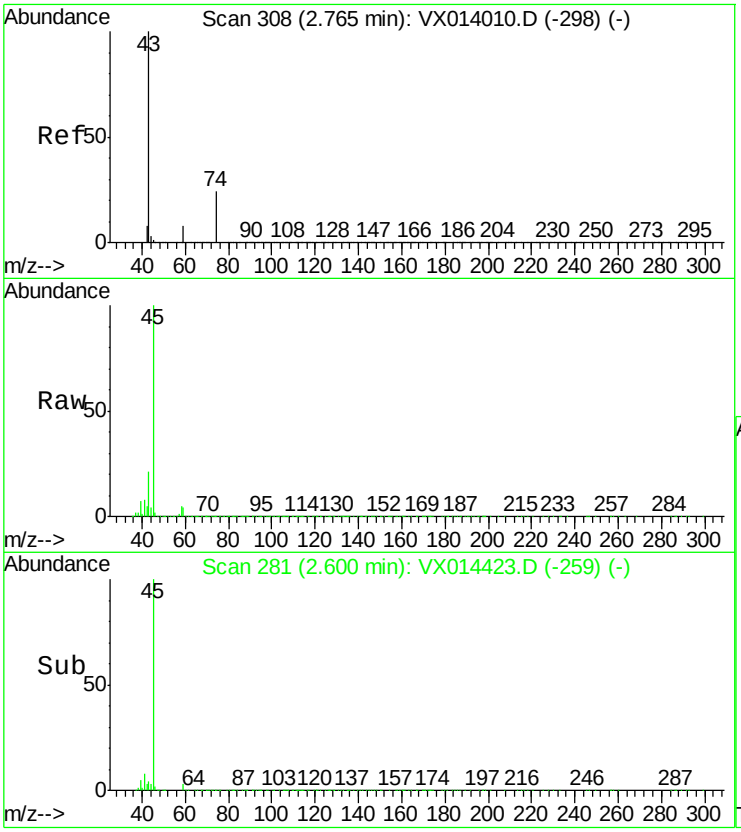


#17
Carbon Disulfide
Concen: 0.899 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 76 Resp: 2365

Ion	Ratio	Lower	Upper
76	100		
78	16.0	7.2	10.8#



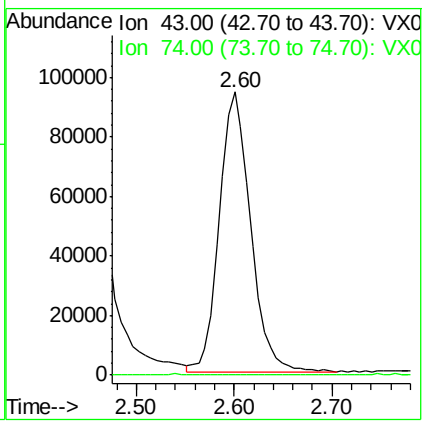


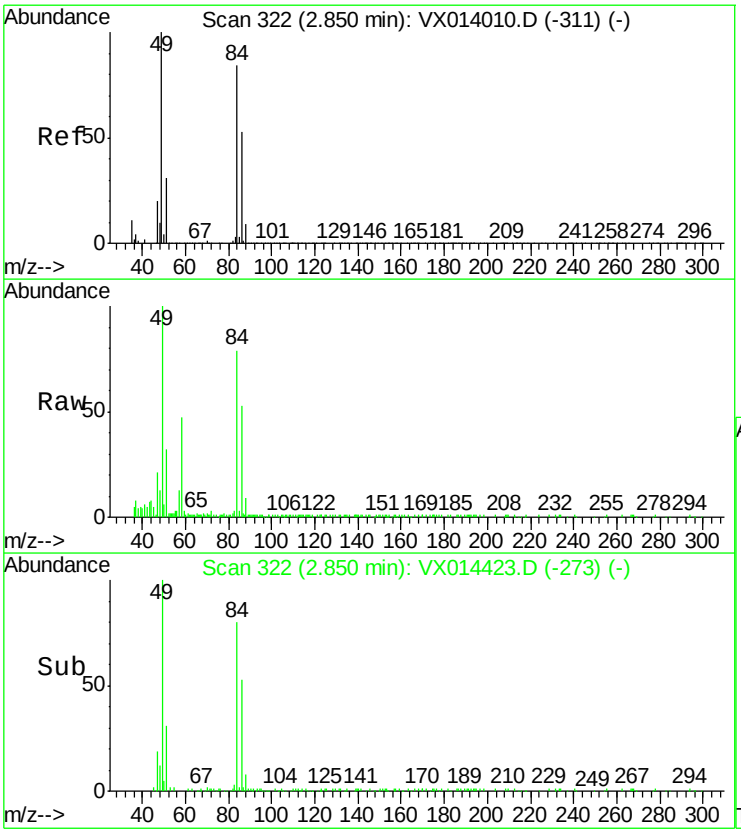
#18
Methyl Acetate
Concen: 24.308 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.16 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 43 Resp: 208094

Ion	Ratio	Lower	Upper
43	100		
74	0.1	19.5	29.3#

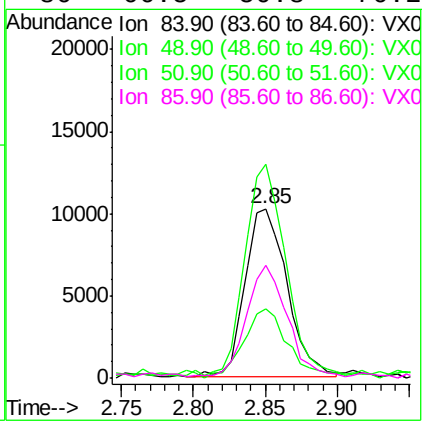


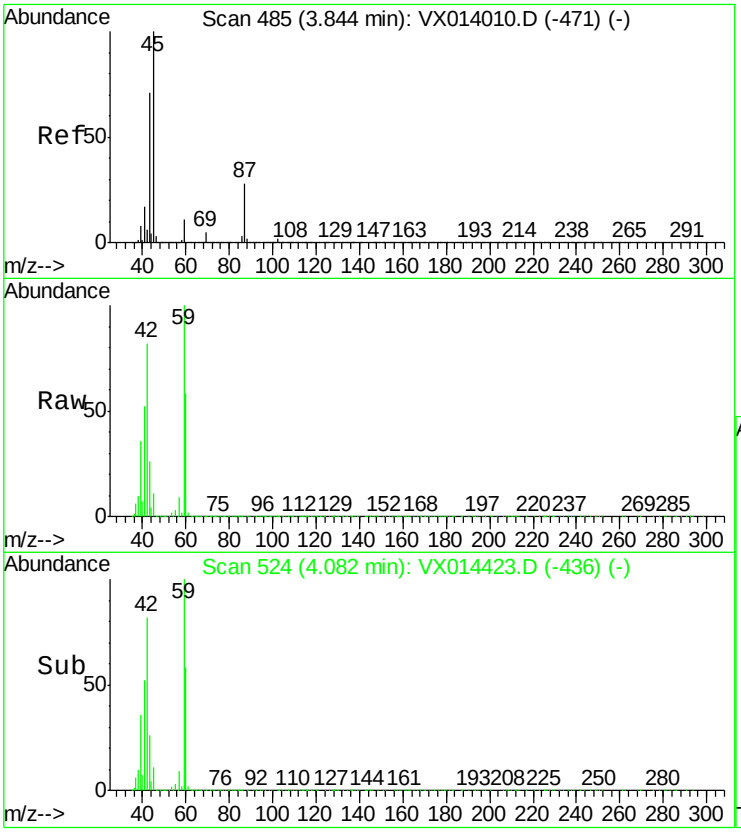


#20
Methylene Chloride
Concen: 2.993 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 84 Resp: 20361

Ion	Ratio	Lower	Upper
84	100		
49	126.2	95.8	143.6
51	38.6	29.8	44.8
86	66.5	50.8	76.2



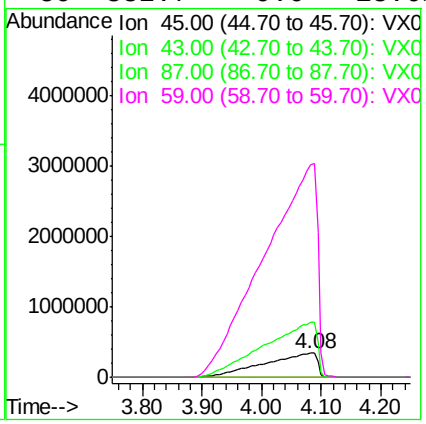


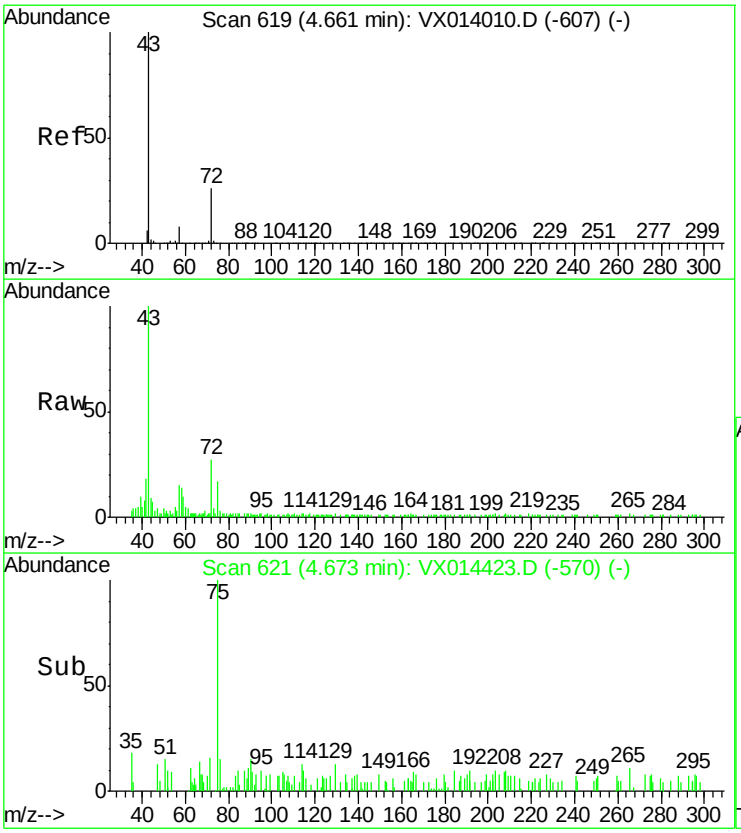
#22
Diisopropyl ether
Concen: 105.540 ug/l
RT: 4.08 min Scan# 524
Delta R.T. 0.24 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 45 Resp: 2120891

Ion	Ratio	Lower	Upper
45	100		
43	227.5	57.4	86.0#
87	0.0	21.9	32.9#
59	882.7	9.0	13.6#

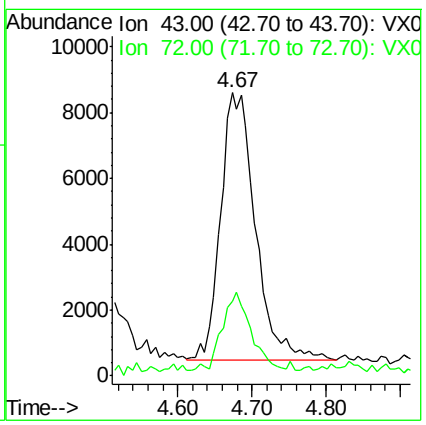


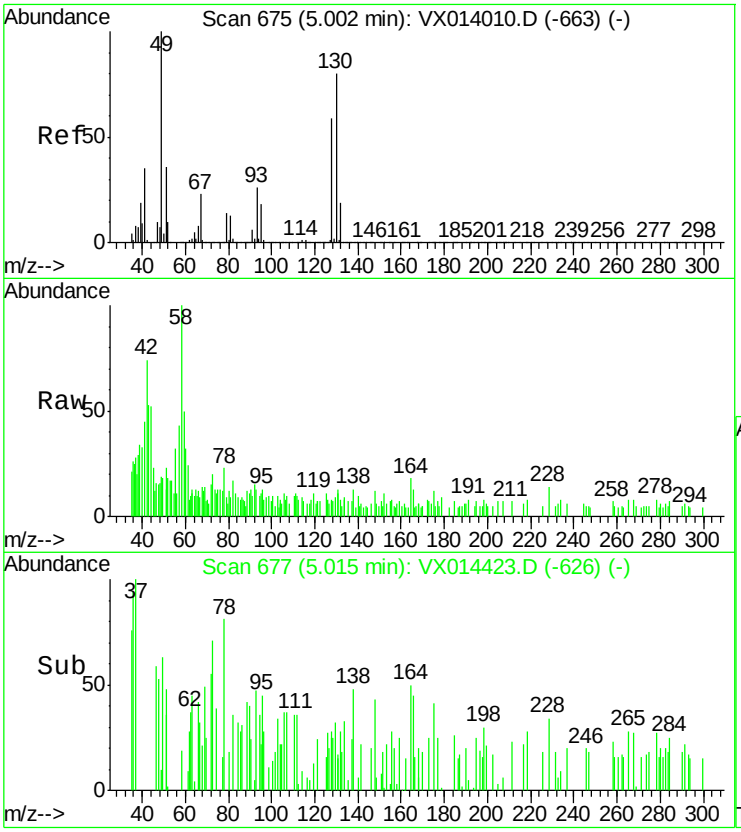


#25
2-Butanone
Concen: 4.970 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 43 Resp: 26472

Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.0	31.4



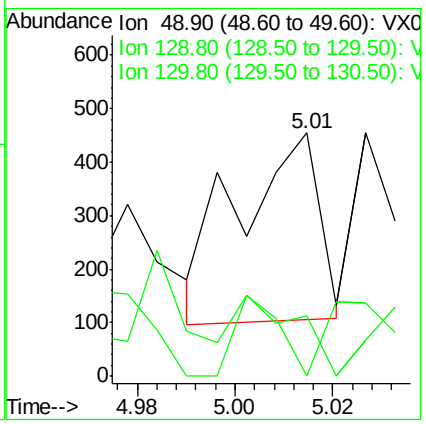


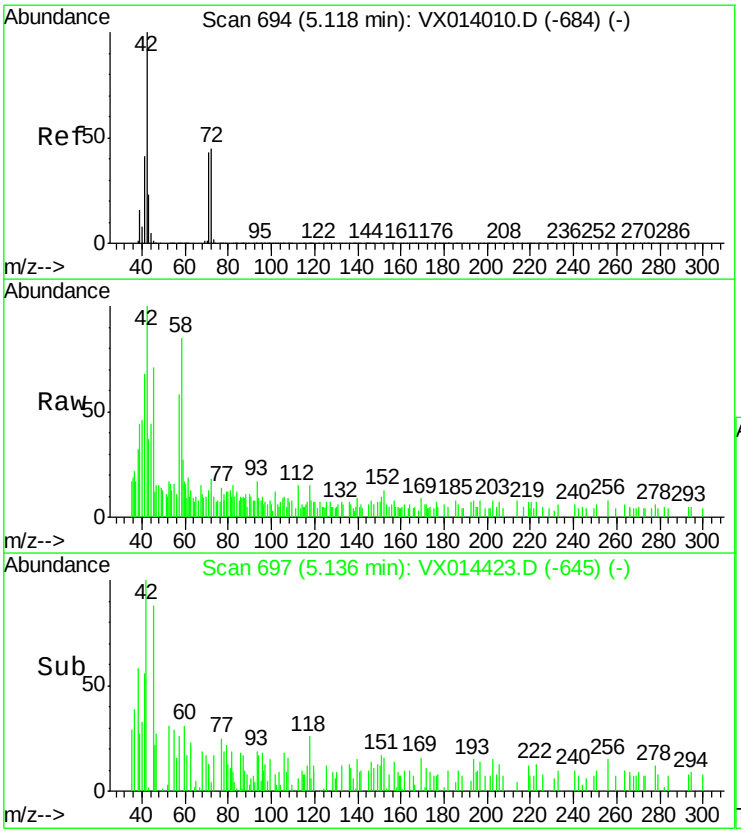
#28
Bromochloromethane
Concen: 0.546 ug/l
RT: 5.01 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 49 Resp: 402

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	32.8	64.6	97.0#

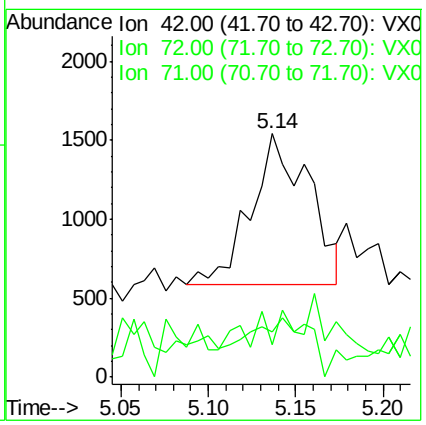


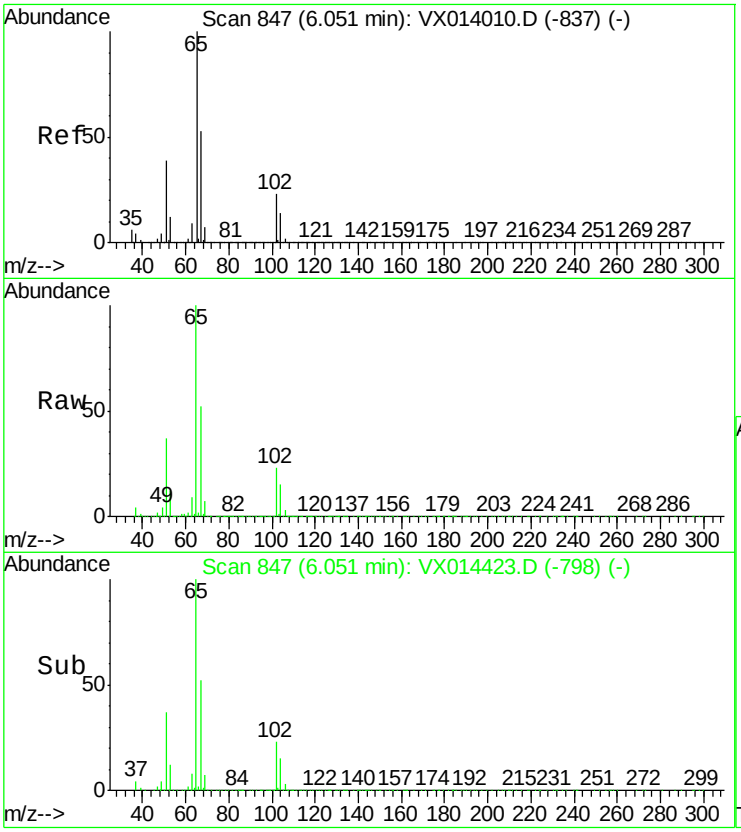


#29
Tetrahydrofuran
Concen: 0.752 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 42 Resp: 2239

Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.8	53.8#
71	4.0	33.6	50.4#



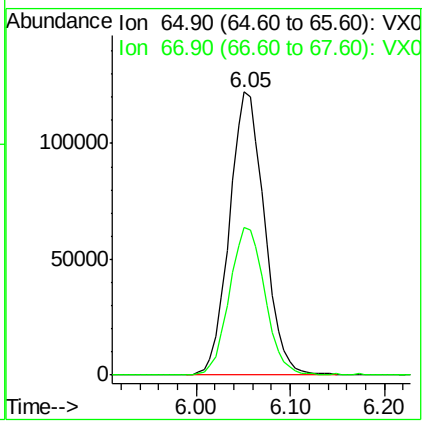


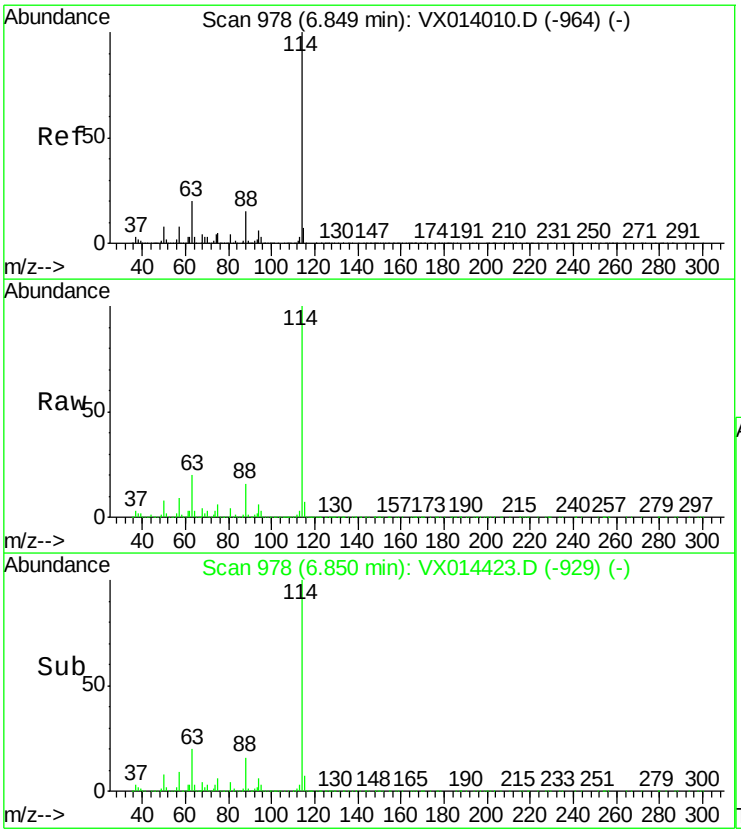
#33
1,2-Dichloroethane-d4
Concen: 47.269 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 65 Resp: 314551

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.4

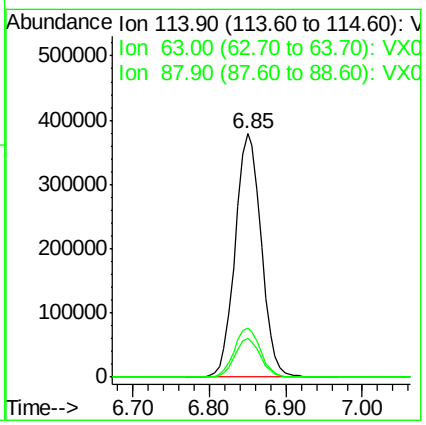


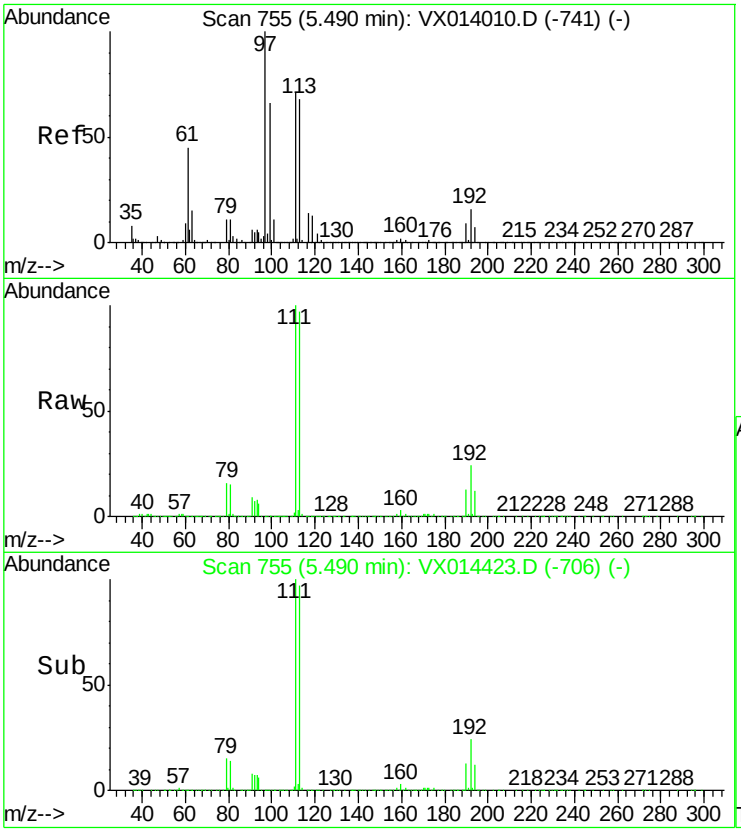


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:114 Resp: 891212

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	15.8	0.0	30.4



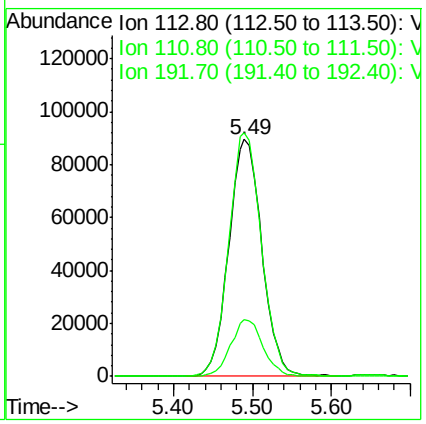


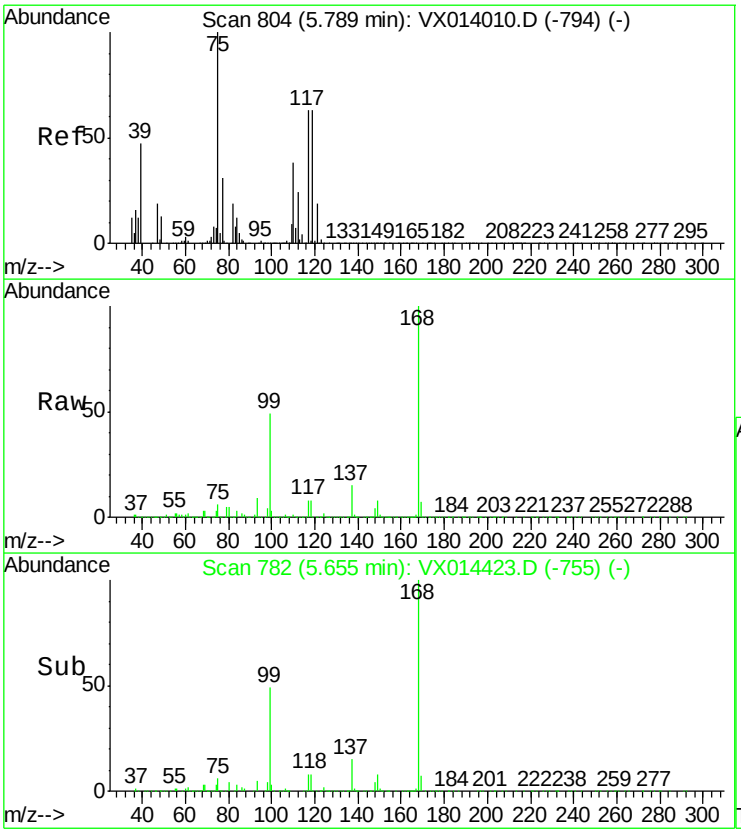
#35
Dibromofluoromethane
Concen: 47.850 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:113 Resp: 259233

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.0	123.0
192	23.8	19.3	28.9

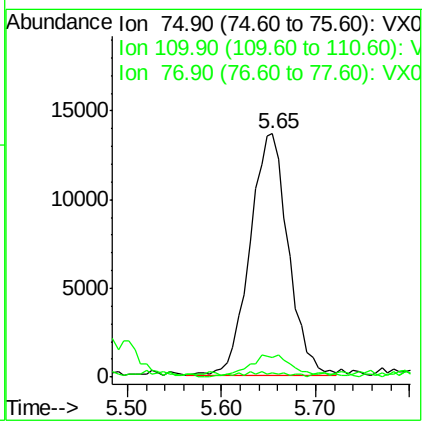


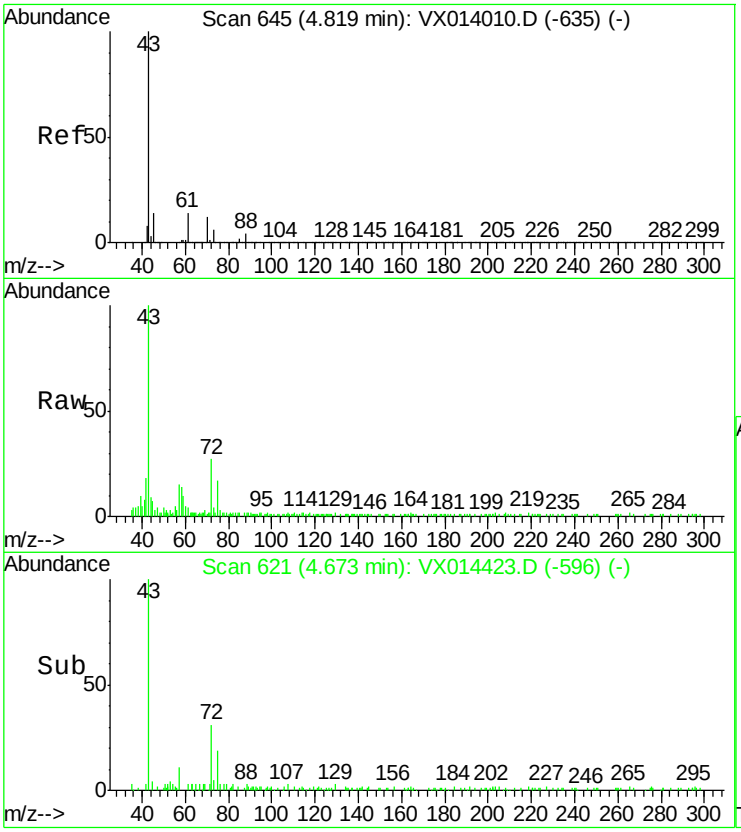


#36
1,1-Dichloropropene
Concen: 4.742 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 75 Resp: 38780

Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.3	54.9#
77	0.8	24.8	37.2#



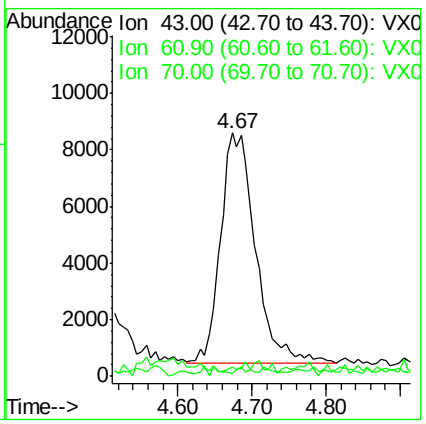


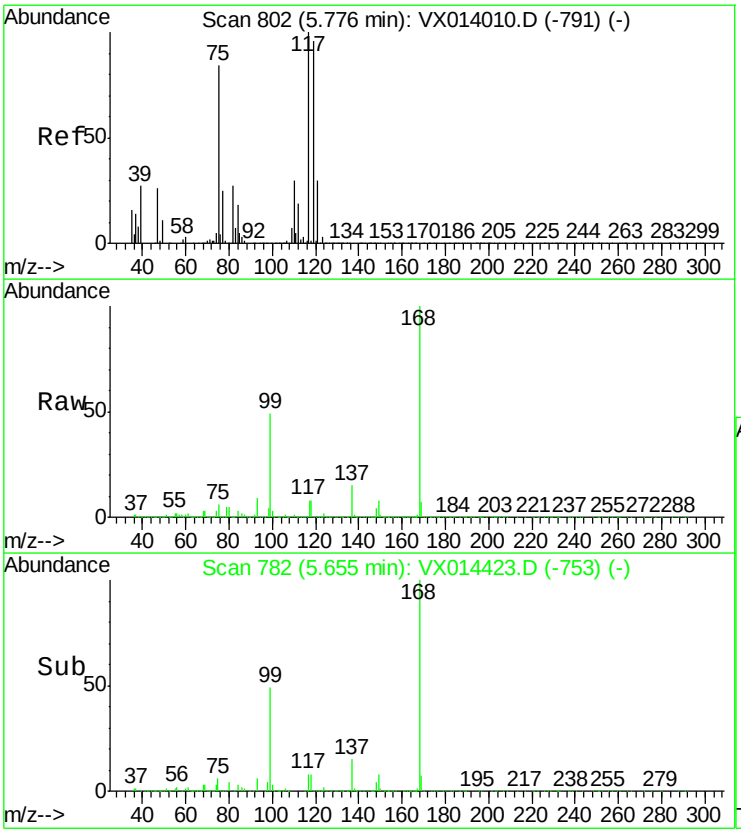
#37
Ethyl Acetate
Concen: 2.932 ug/l
RT: 4.67 min Scan# 621
Delta R.T. -0.15 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 43 Resp: 26472

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.8	8.6	12.8#

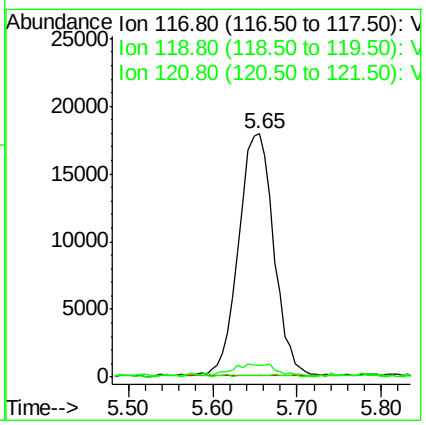


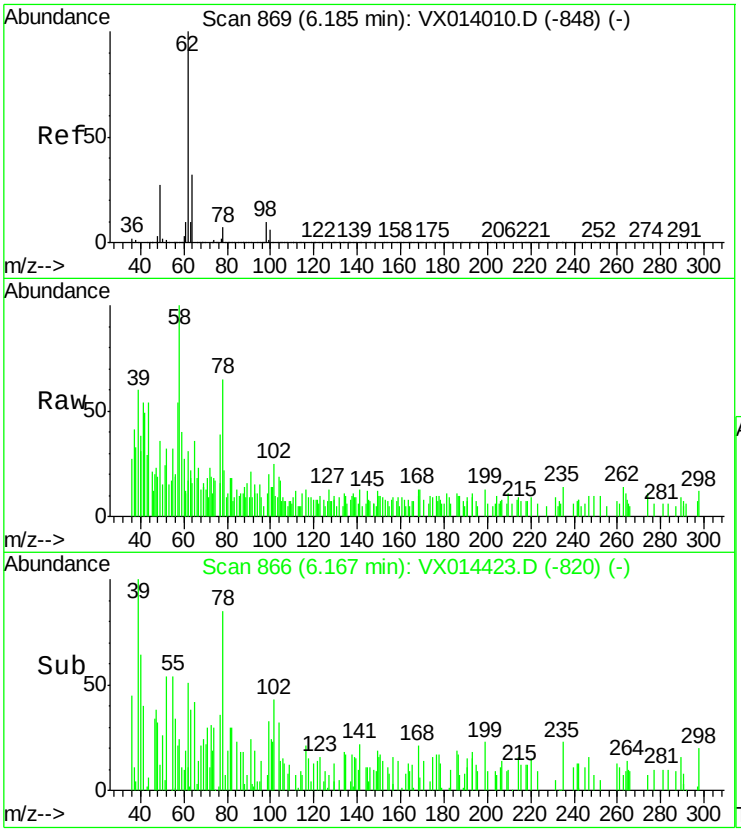


#38
Carbon Tetrachloride
Concen: 6.750 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:117 Resp: 50286

Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.2	114.4#
121	0.1	23.6	35.4#



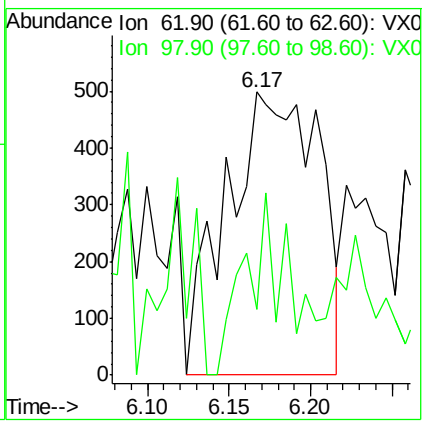


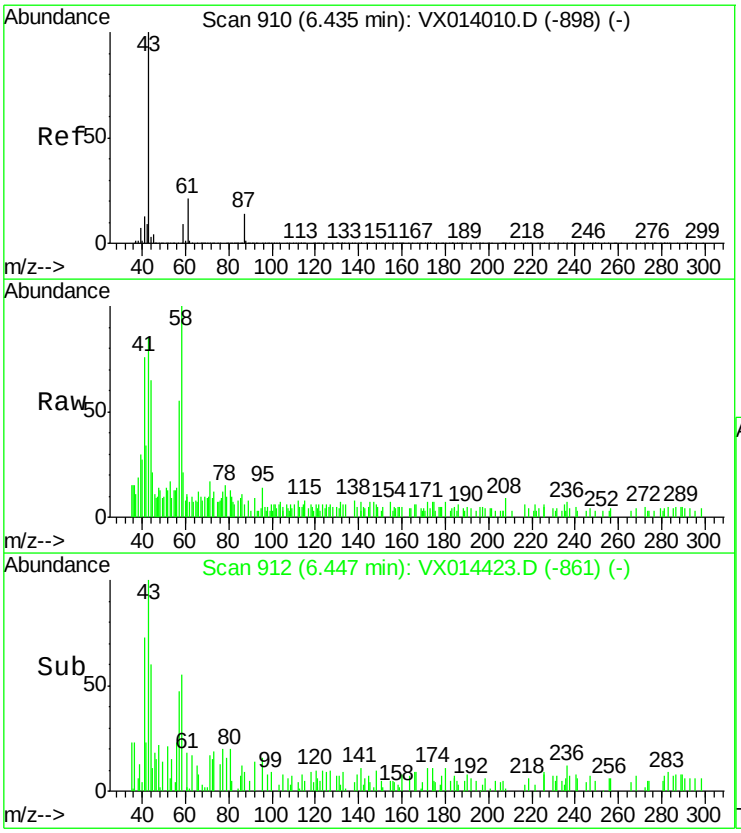
#42
1,2-Dichloroethane
Concen: 0.231 ug/l
RT: 6.17 min Scan# 866
Delta R.T. -0.02 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument :
MSVOA_X
ClientSampleId :
40121

Tgt Ion: 62 Resp: 1969

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.0

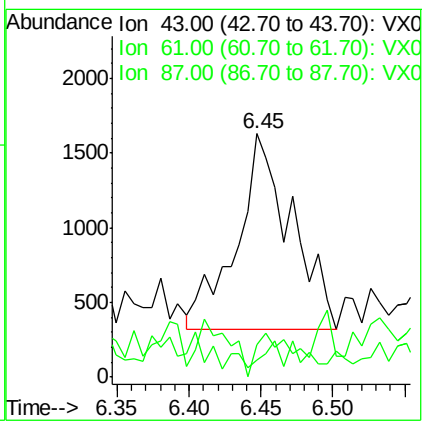


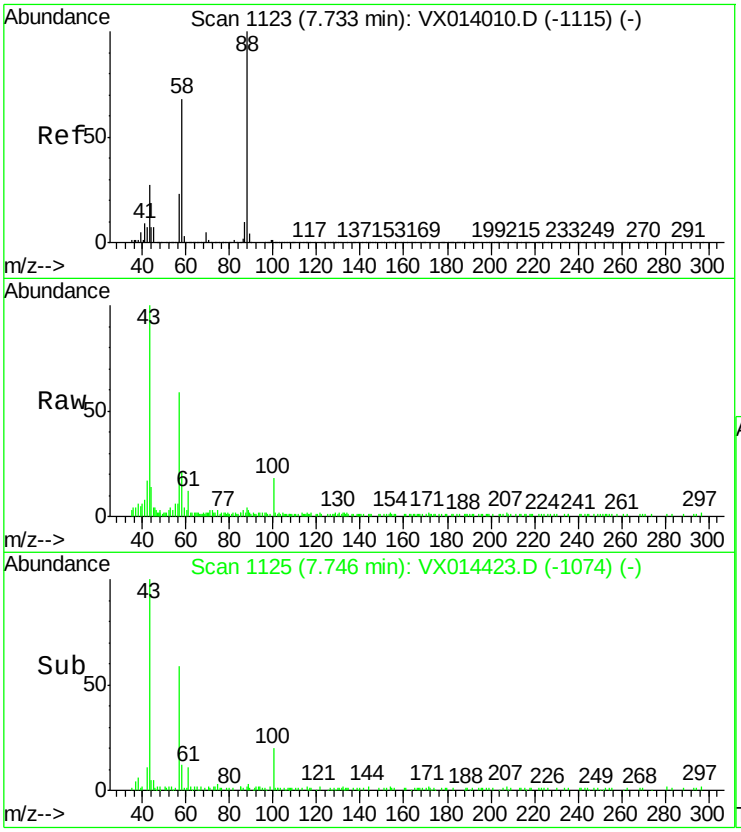


#43
Isopropyl Acetate
Concen: 0.232 ug/l
RT: 6.45 min Scan# 912
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 43 Resp: 3462

Ion	Ratio	Lower	Upper
43	100		
61	11.8	16.4	24.6#
87	3.5	10.7	16.1#



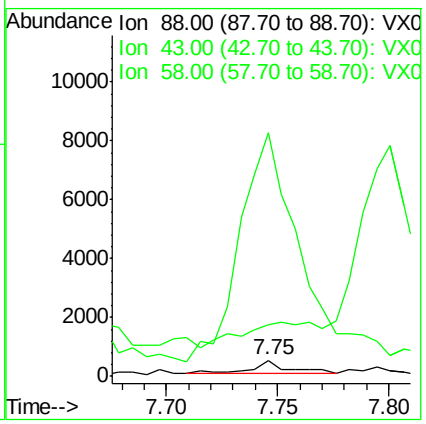


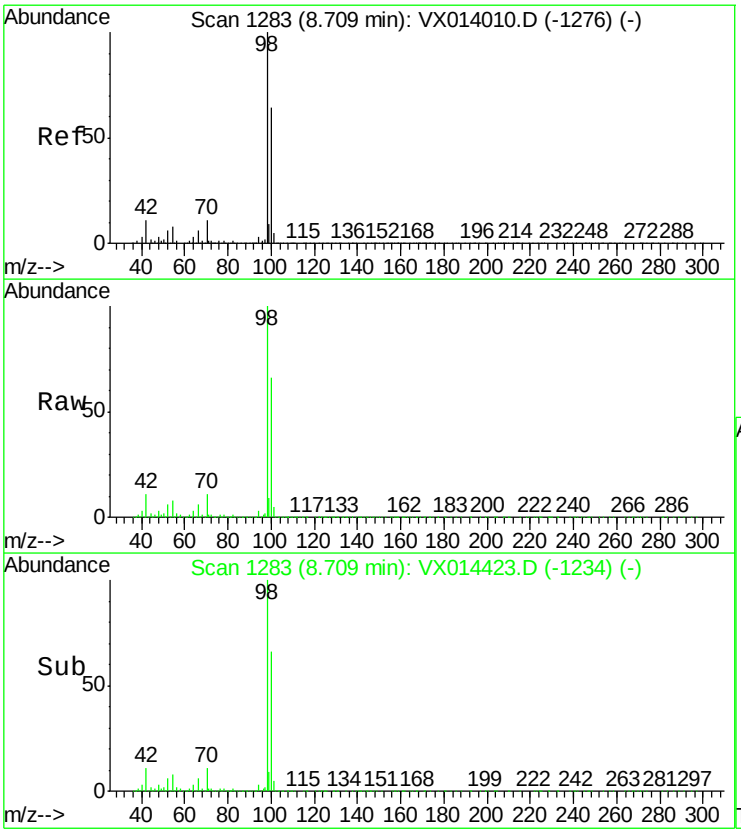
#49
1,4-Dioxane
Concen: 3.331 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 88 Resp: 496

Ion	Ratio	Lower	Upper
88	100		
43	3118.3	26.5	39.7#
58	766.3	56.8	85.2#

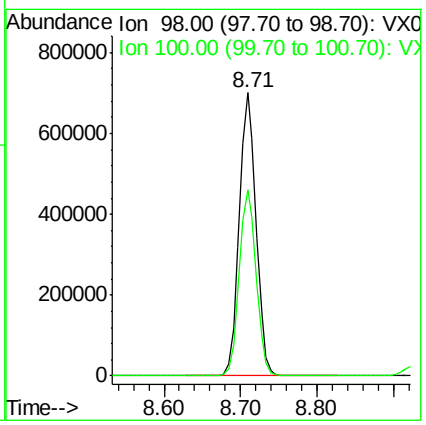


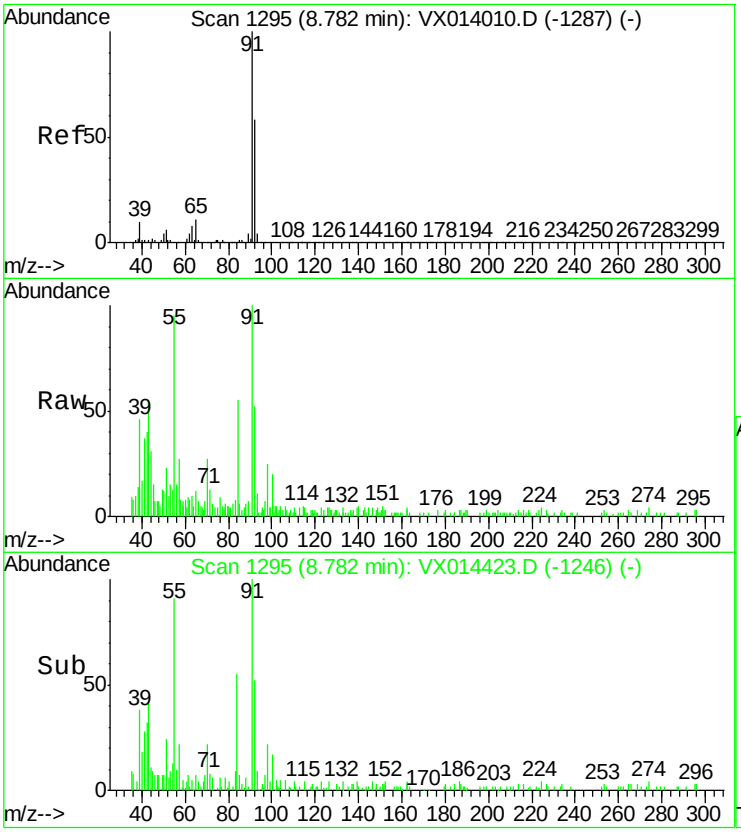


#50
Toluene-d8
Concen: 50.434 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 98 Resp: 1063749

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.9	79.3



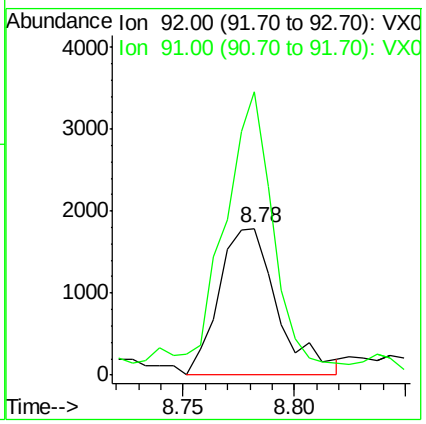


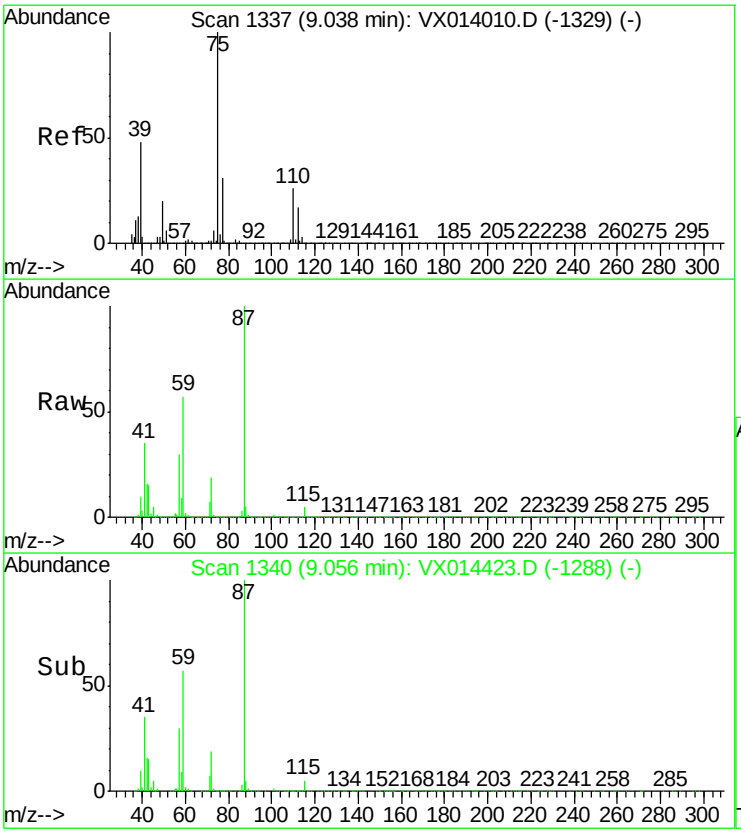
#52
Toluene
Concen: 0.206 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 92 Resp: 3283

Ion	Ratio	Lower	Upper
92	100		
91	163.9	136.2	204.4

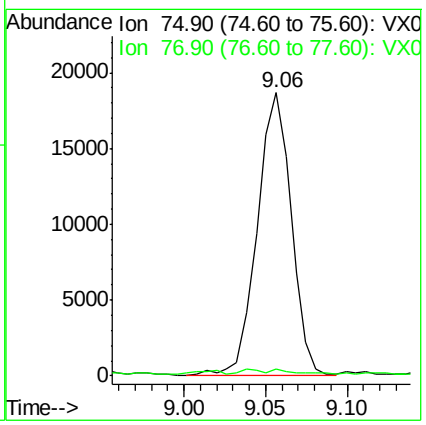


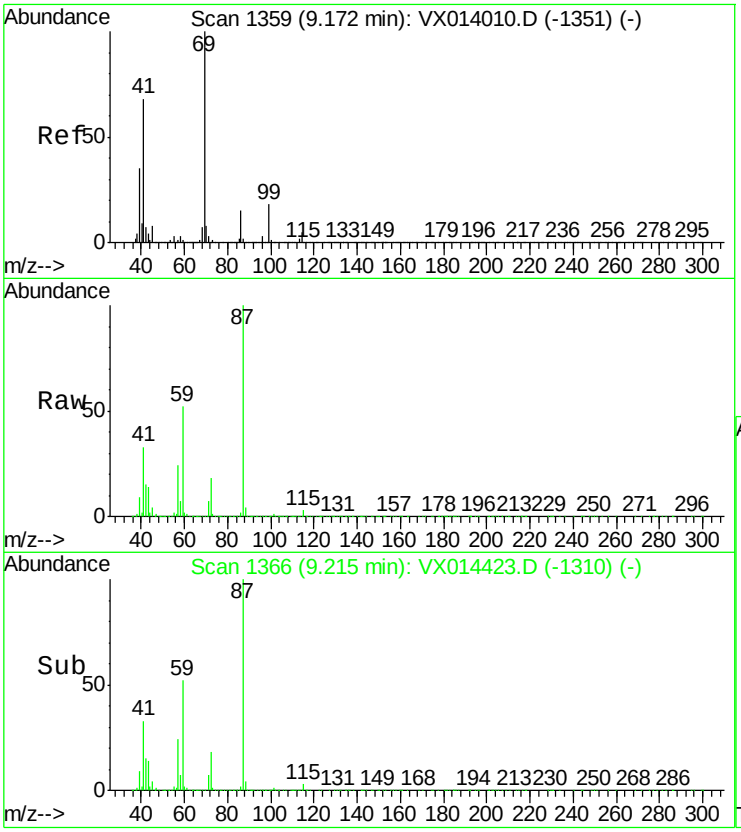


#53
t-1,3-Dichloropropene
Concen: 3.091 ug/l
RT: 9.06 min Scan# 1340
Delta R.T. 0.02 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 75 Resp: 27214

Ion	Ratio	Lower	Upper
75	100		
77	1.7	25.1	37.7#



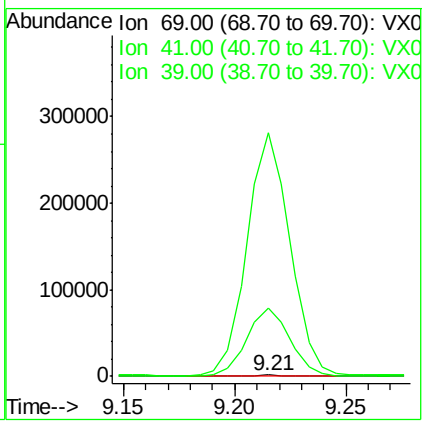


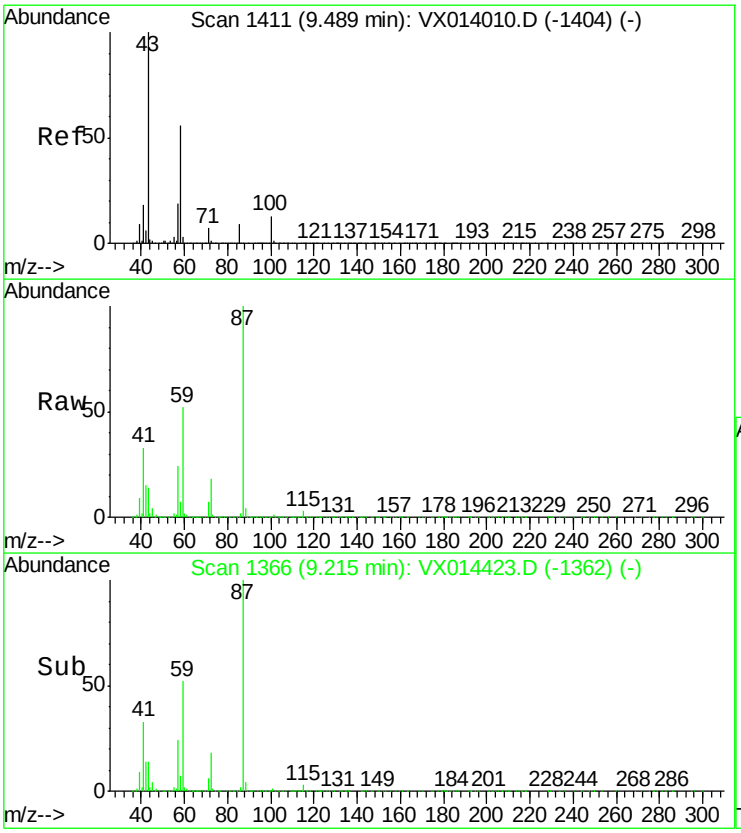
#56
Ethyl methacrylate
Concen: 0.221 ug/l
RT: 9.21 min Scan# 1366
Delta R.T. 0.04 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 69 Resp: 2211

Ion	Ratio	Lower	Upper
69	100		
41	16949.4	54.8	82.2#
39	4768.7	28.3	42.5#

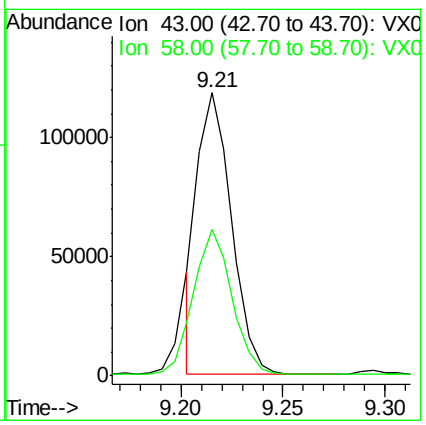


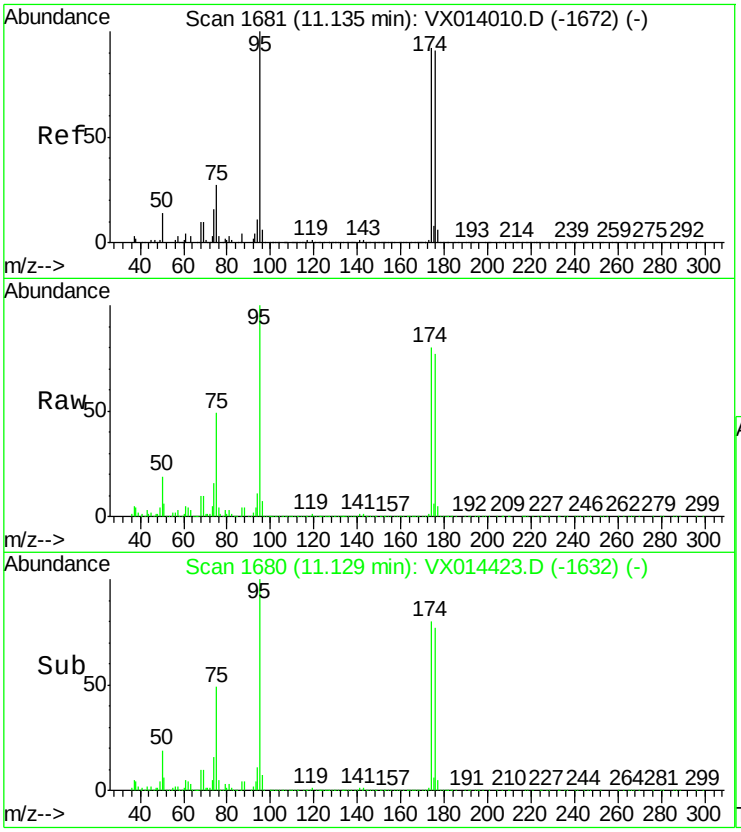


#59
2-Hexanone
Concen: 18.084 ug/l
RT: 9.21 min Scan# 1366
Delta R.T. -0.27 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 43 Resp: 136626

Ion	Ratio	Lower	Upper
43	100		
58	51.0	28.0	84.0



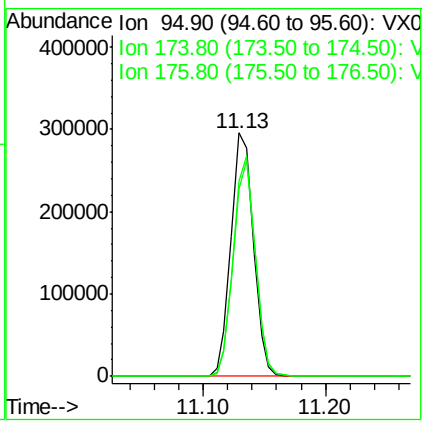


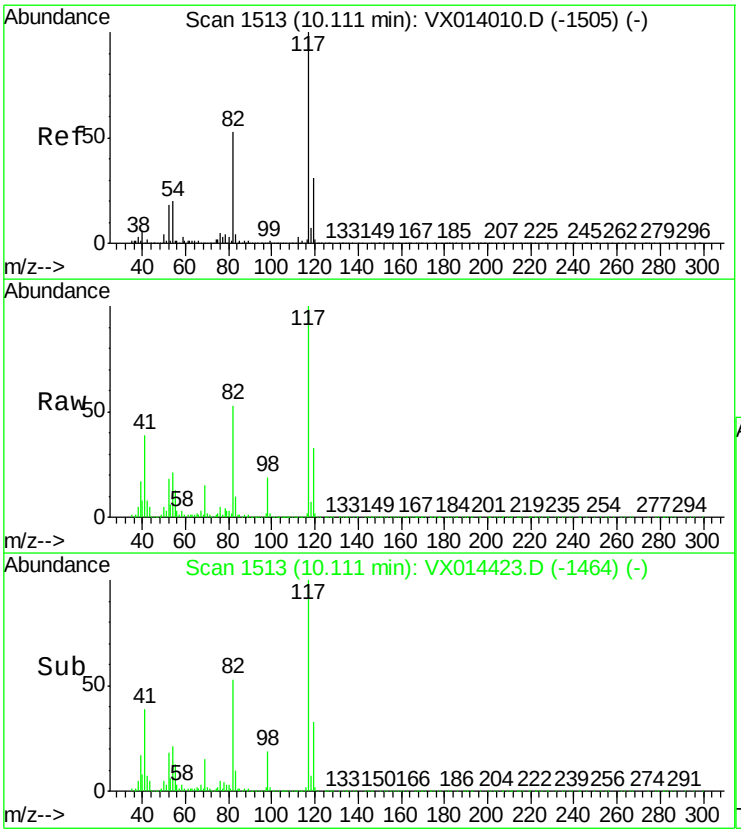
#62
4-Bromofluorobenzene
Concen: 48.619 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 95 Resp: 374852

Ion	Ratio	Lower	Upper
95	100		
174	88.4	0.0	175.8
176	86.0	0.0	173.0

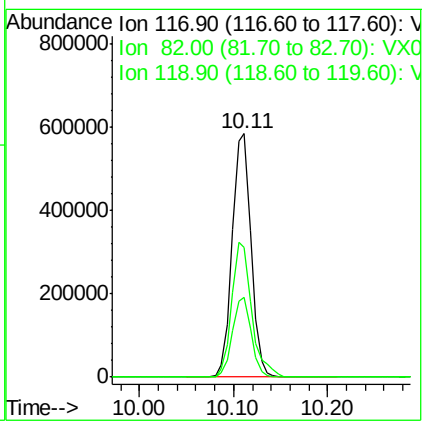


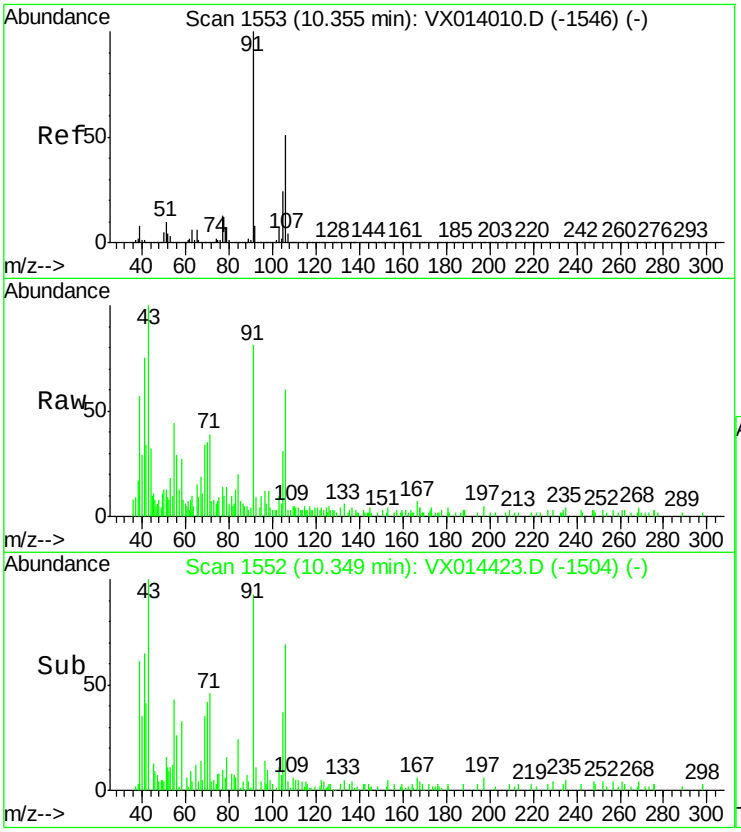


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:117 Resp: 807943

Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.2	63.4
119	32.5	25.1	37.7



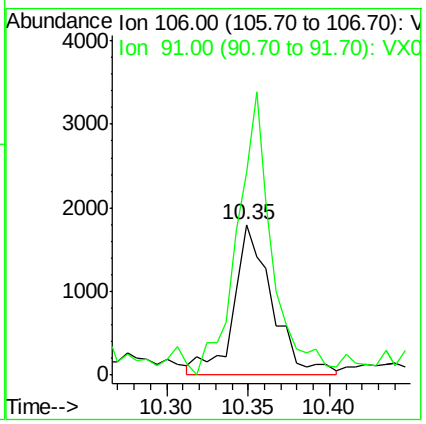


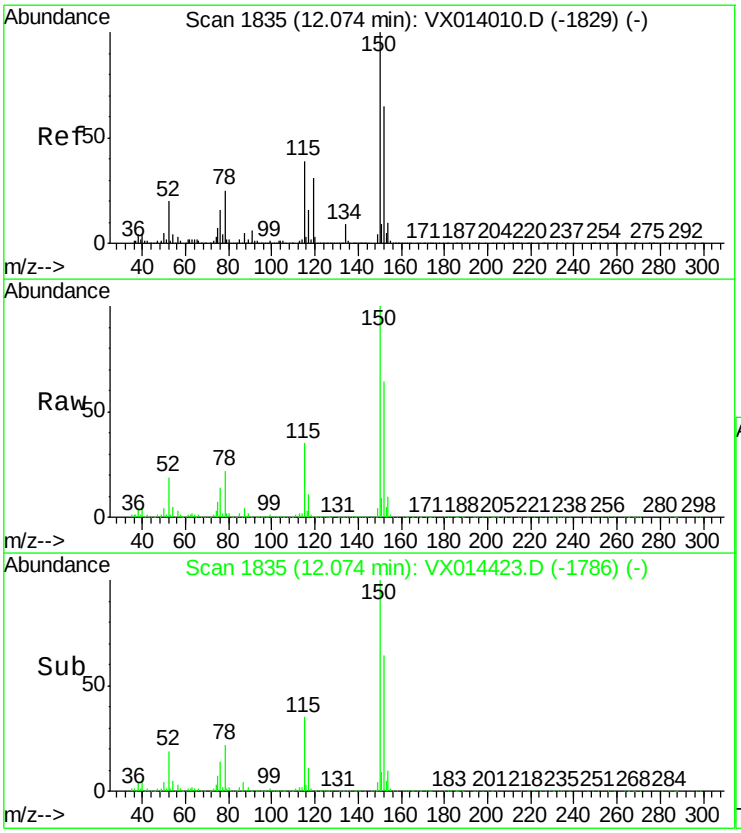
#68
m/p-Xylenes
Concen: 0.260 ug/l
RT: 10.35 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:106 Resp: 2948

Ion	Ratio	Lower	Upper
106	100		
91	170.4	158.6	238.0

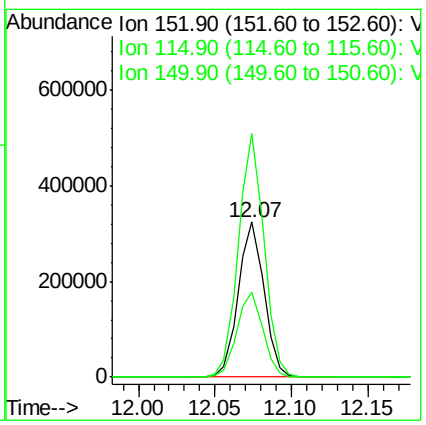


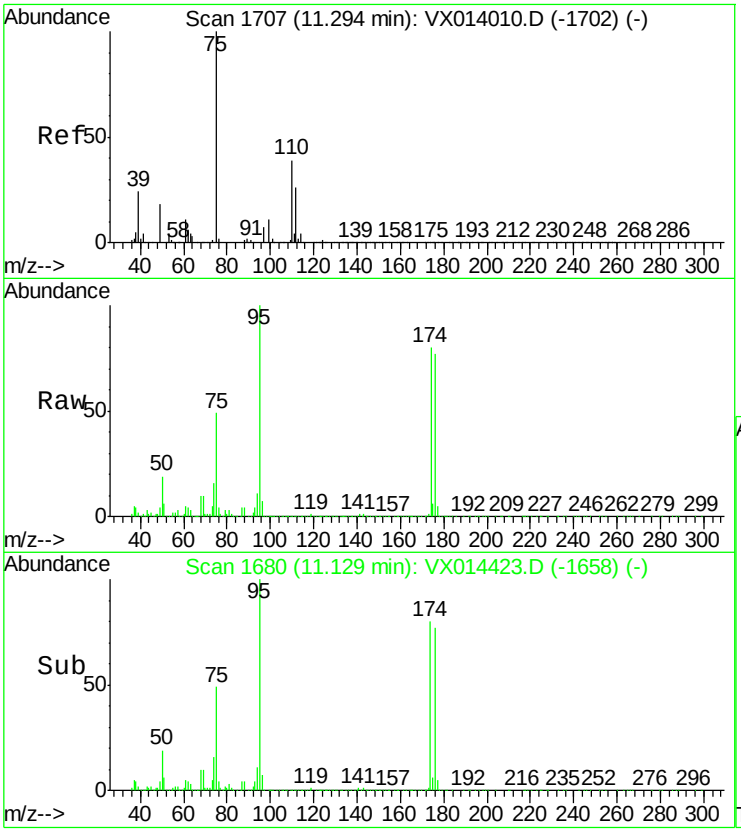


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:152 Resp: 380082

Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.3	114.9
150	155.4	0.0	345.4



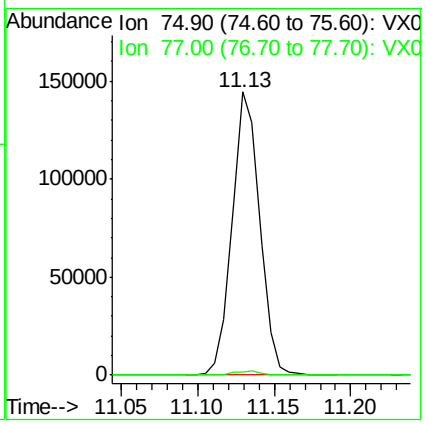


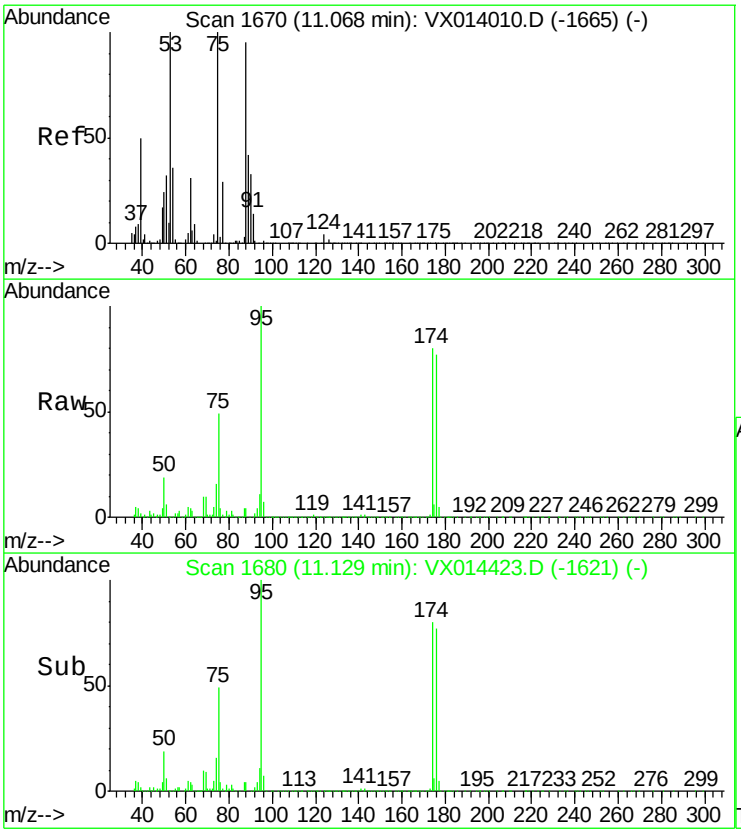
#76
1,2,3-Trichloropropane
Concen: 21.733 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion: 75 Resp: 179334

Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.3	57.8#

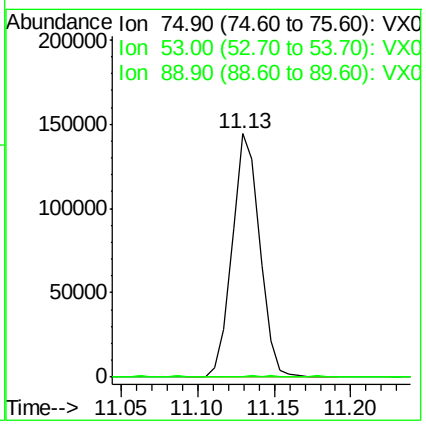


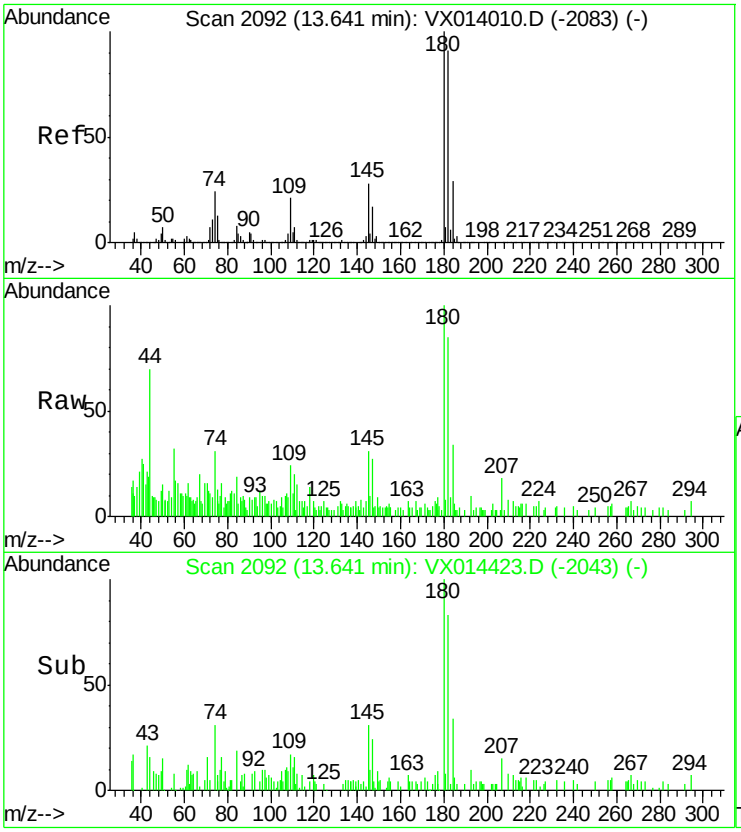


#81
trans-1,4-Dichloro-2-butene
Concen: 61.343 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion: 75 Resp: 179334

Ion	Ratio	Lower	Upper
75	100		
53	0.0	76.7	115.1#
89	0.0	34.6	51.8#



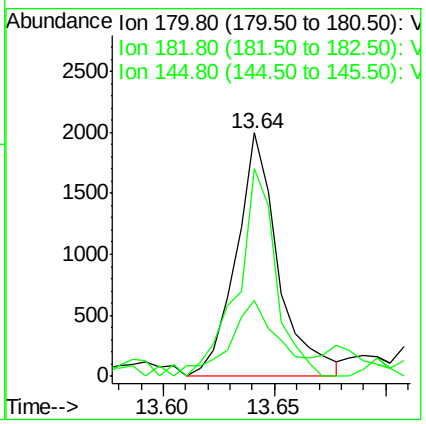


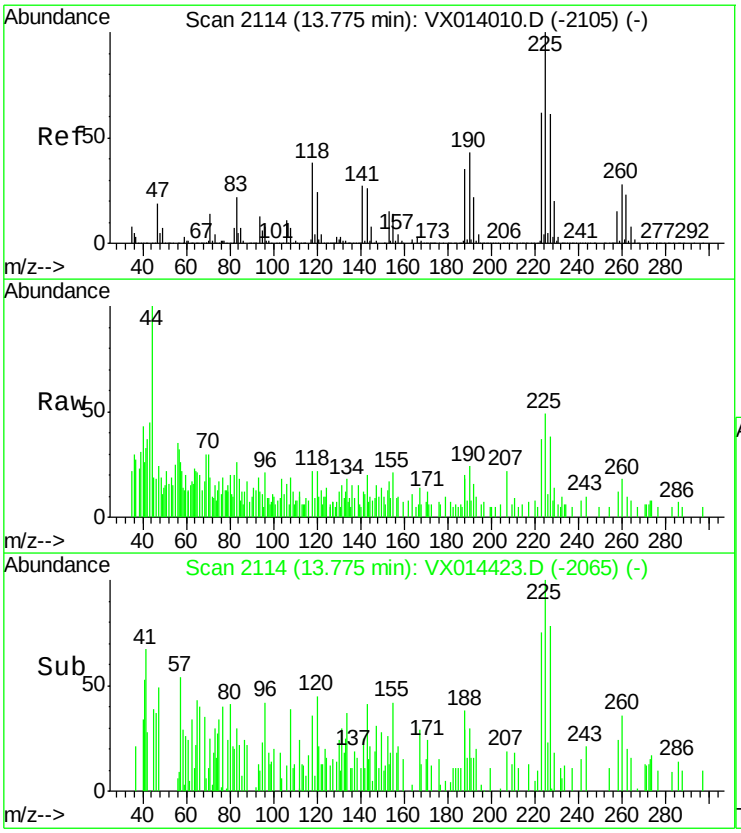
#93
1,2,4-Trichlorobenzene
Concen: 0.313 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:180 Resp: 2639

Ion	Ratio	Lower	Upper
180	100		
182	77.2	46.6	139.8
145	37.7	14.2	42.6

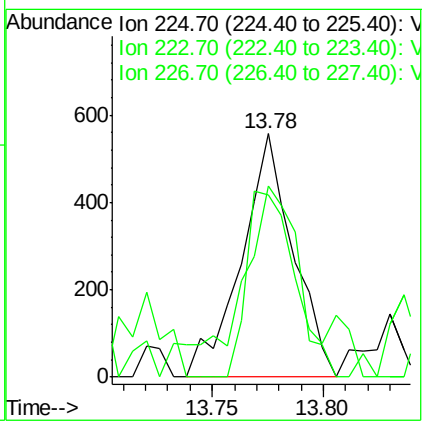


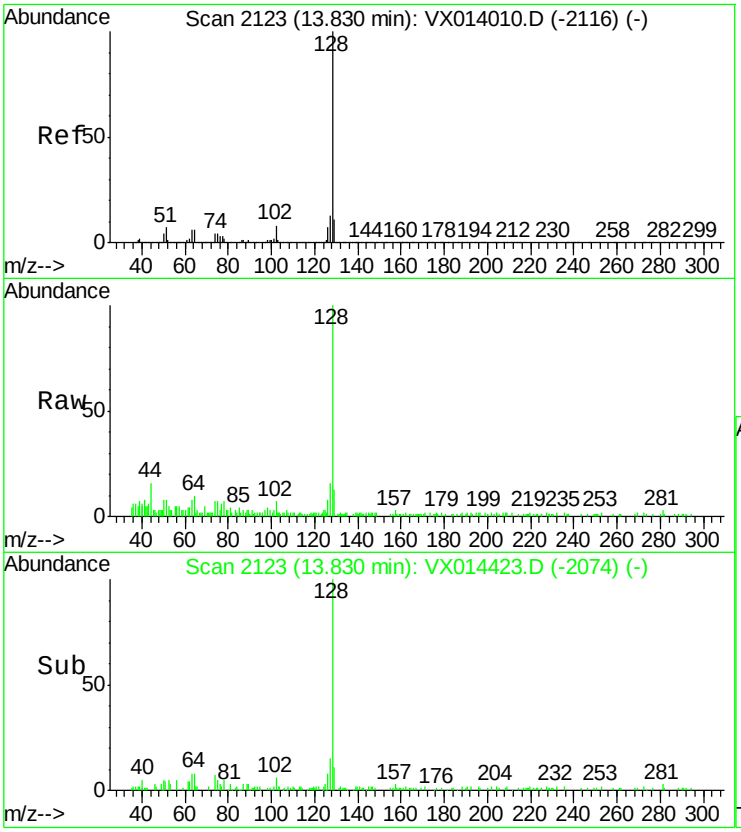


#94
Hexachlorobutadiene
Concen: 0.222 ug/l
RT: 13.78 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:225 Resp: 899

Ion	Ratio	Lower	Upper
225	100		
223	71.5	30.9	92.5
227	89.9	30.9	92.7



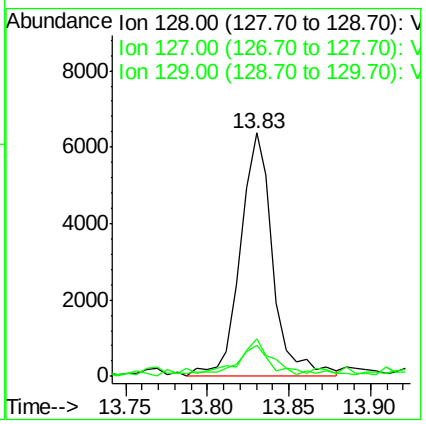


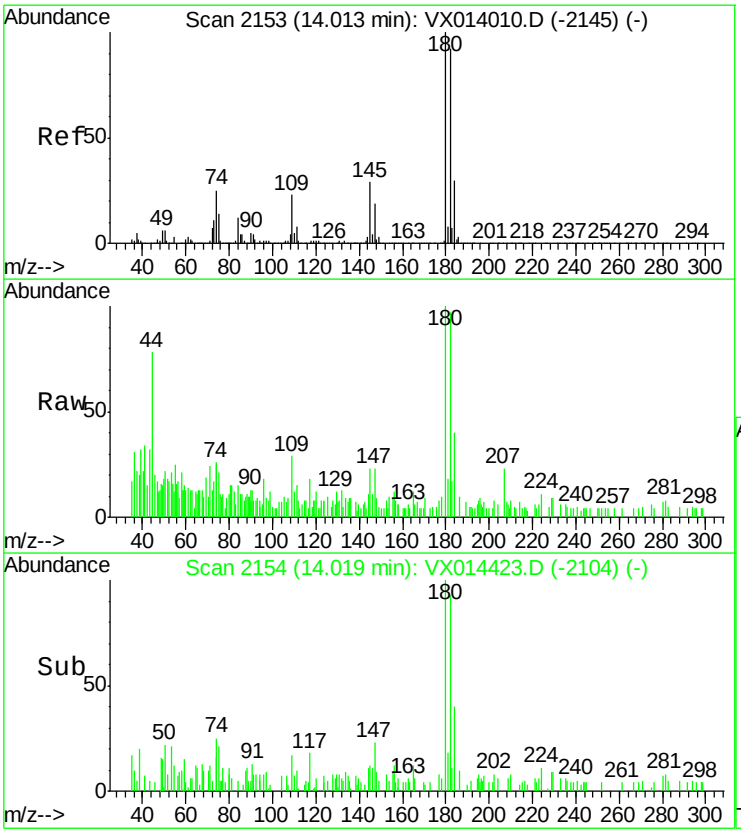
#95
Naphthalene
Concen: 0.356 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Instrument : MSVOA_X
ClientSampleId : 40121

Tgt Ion:128 Resp: 8841

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.4
129	11.5	8.7	13.1





#96
1,2,3-Trichlorobenzene
Concen: 0.281 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX014423.D
Acq: 06 Jan 2020 13:33

Tgt Ion:180 Resp: 2345

Ion	Ratio	Lower	Upper
180	100		
182	88.5	46.8	140.3
145	31.0	14.8	44.4