Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL050318\

Quantitation Report (Not Reviewed)

Data File : VL031973.D
Acq On : 3 May 2018 22:00
Operator : SY/AP
Sample : J2629-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: May 04 03:27:50 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 15:52:13 2018
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.88	49	1123739	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.42	114	2220966	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.39	117	2156566	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.72	95	1755801	10.50	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	41887	0.28	ppbv		95
3) Chlorodifluoromethane	3.07	51	325401	3.08	ppbv	#	63
4) Chloromethane	3.26	50	28686	0.52	ppbv		95
7) Chloroethane	3.69	64	471	0.02	ppbv	#	38
9) Propene	3.13	41	17145	0.44	ppbv		84
10) Heptane	8.38	43	10919	0.08	ppbv	#	60
11) Trichlorofluoromethane	4.10	101	38924	0.22	ppbv		85
12) 1,1,2-Trichlorotrifluoroet	4.66	101	4908	0.04	ppbv	#	12
13) Ethanol	3.75	45	1006600	69.56	ppbv	#	100
15) Acetone	4.00	43	748961	4.71	ppbv		99
16) 1,3-Butadiene	3.45	39	530	0.01	ppbv	#	1
17) tert-Butyl alcohol	4.48	59	9296	0.14	ppbv	#	87
19) Isopropyl Alcohol	4.13	45	695145	8.09	ppbv	#	98
20) Methylene Chloride	4.52	84	839207	15.65	ppbv		98
21) Allyl Chloride	4.51	41	30857	0.34	ppbv	#	29
23) Vinyl Acetate	5.27	43	48045	0.26	ppbv	#	83
25) Ethyl Acetate	5.90	43	328252	1.20	ppbv	#	81
26) Hexane	5.90	57	435883	3.40	ppbv	#	46
27) Carbon Disulfide	4.73	76	1599	0.01	ppbv	#	1
29) Chloroform	5.97	83	8976	0.04	ppbv	#	71
30) Cyclohexane	7.38	84	5148	0.06	ppbv	#	1
32) 1,1,1-Trichloroethane	6.75	97	42477	0.23	ppbv		88
34) 2-Butanone	5.45	43	93459	0.51	ppbv		97
35) Carbon Tetrachloride	7.26	117	10292	0.06	ppbv		86
36) Benzene	7.13	78	29828	0.14	ppbv		96
37) 1,2-Dichloroethane	6.54	62	4789	0.03	ppbv		97
39) 1,2-Dichloropropane	7.43	63	593655	8.15	ppbv	#	24
41) Tetrahydrofuran	6.28	42	2804	0.04	ppbv	#	35
44) 2,2,4-Trimethylpentane	8.13	57	7624	0.02	ppbv	#	1
52) Tetrachloroethene	11.51	164	1774	0.02	ppbv	#	43
53) Toluene	10.09	91	8850	0.04	ppbv	#	1
58) Ethyl Benzene	13.02	91	14736	0.05	ppbv		96
59) m/p-Xylene	13.30	91	16286	0.06	ppbv	#	31
60) o-Xylene	13.99	91	54111	0.21	ppbv		98
61) Styrene	13.83	104	2192	0.04	ppbv	#	1
73) 1,3,5-Trimethylbenzene	16.30	105	3974	0.02	ppbv		92
74) 1,2,4-Trimethylbenzene	17.07	105	14226	0.05	ppbv	#	66
80) Naphthalene,2-methyl-	25.24	142	746	0.02	ppbv	#	79

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

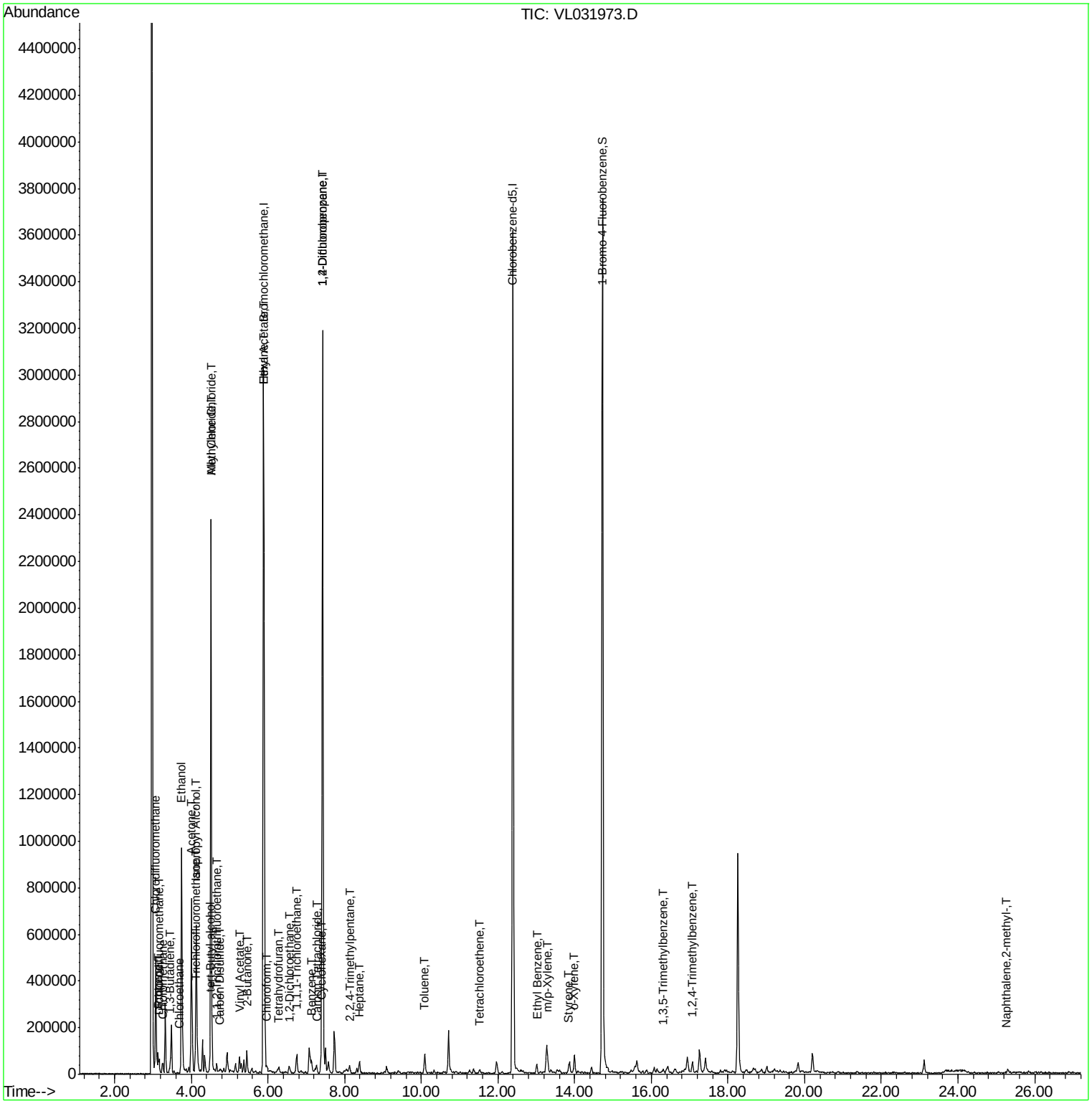
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL050318\

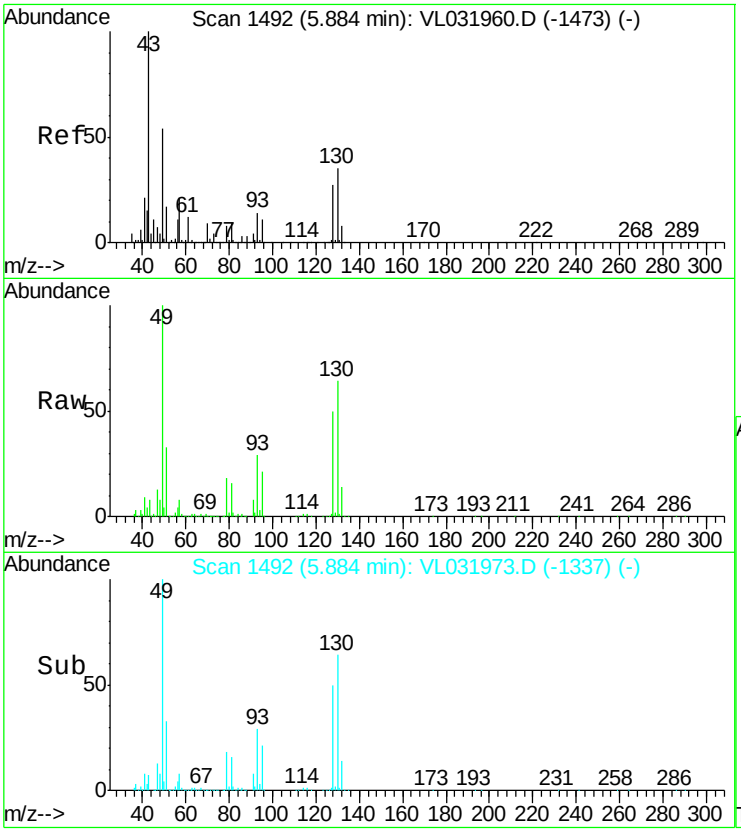
Quantitation Report (Not Reviewed)

Data File : VL031973.D
Acq On : 3 May 2018 22:00
Operator : SY/AP
Sample : J2629-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: May 04 03:27:50 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 15:52:13 2018
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration



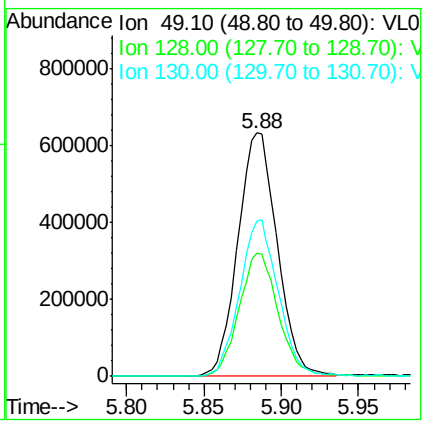


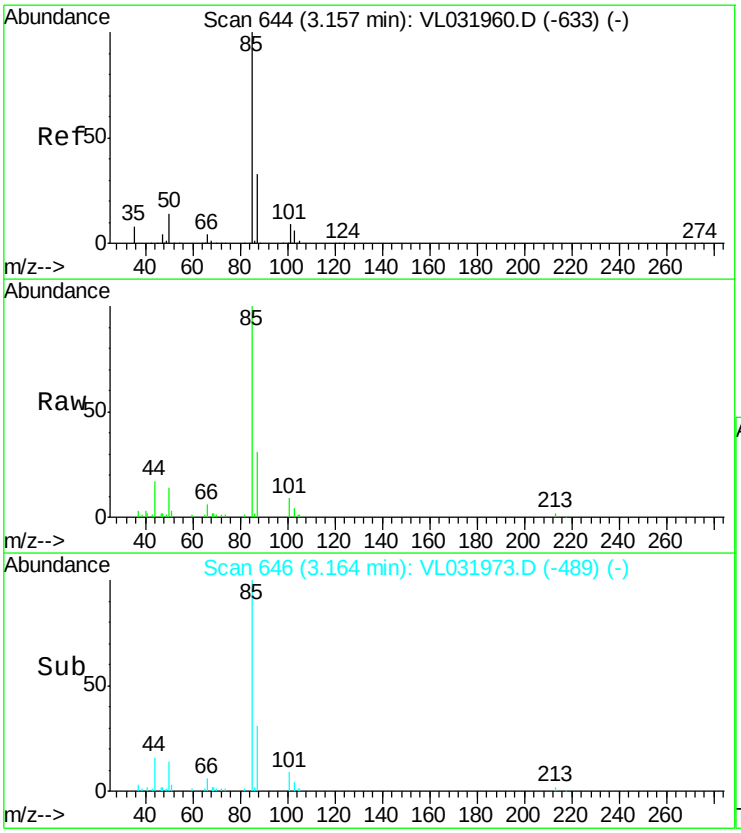
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 1123739

Ion	Ratio	Lower	Upper
49	100		
128	50.7	24.1	72.3
130	63.9	30.7	92.1

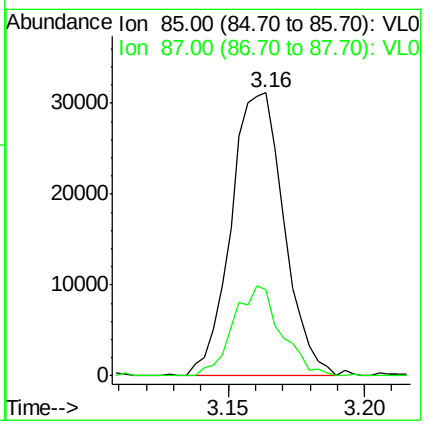


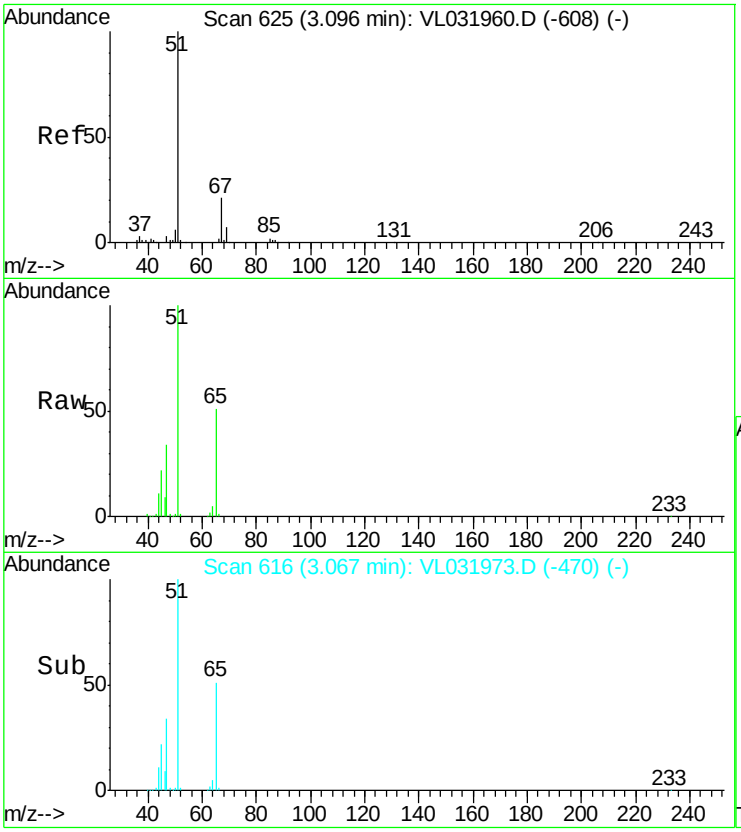


#2
Dichlorodifluoromethane
Concen: 0.28 ppbv
RT: 3.16 min Scan# 646
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 85 Resp: 41887

Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.8	40.2



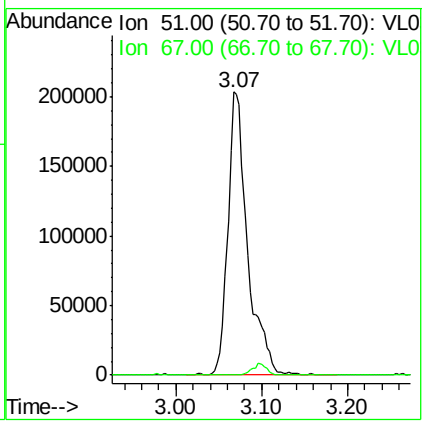


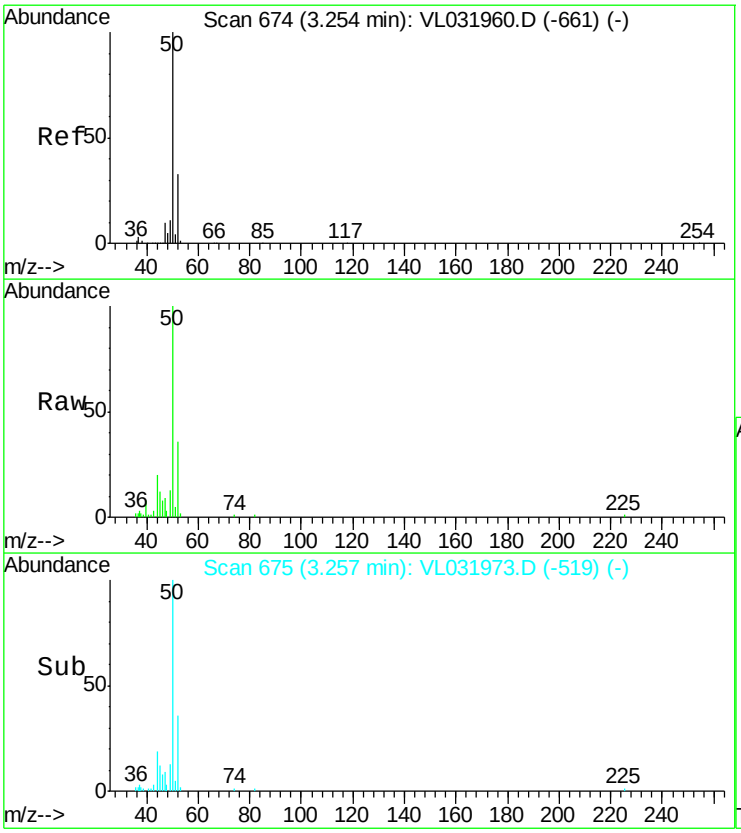
#3
Chlorodifluoromethane
Concen: 3.08 ppbv
RT: 3.07 min Scan# 616
Delta R.T. -0.03 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 51 Resp: 325401

Ion	Ratio	Lower	Upper
51	100		
67	3.0	15.9	23.9#

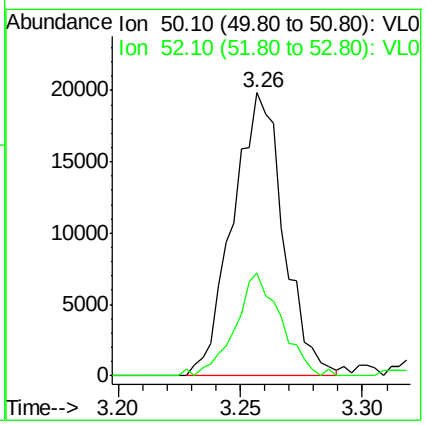


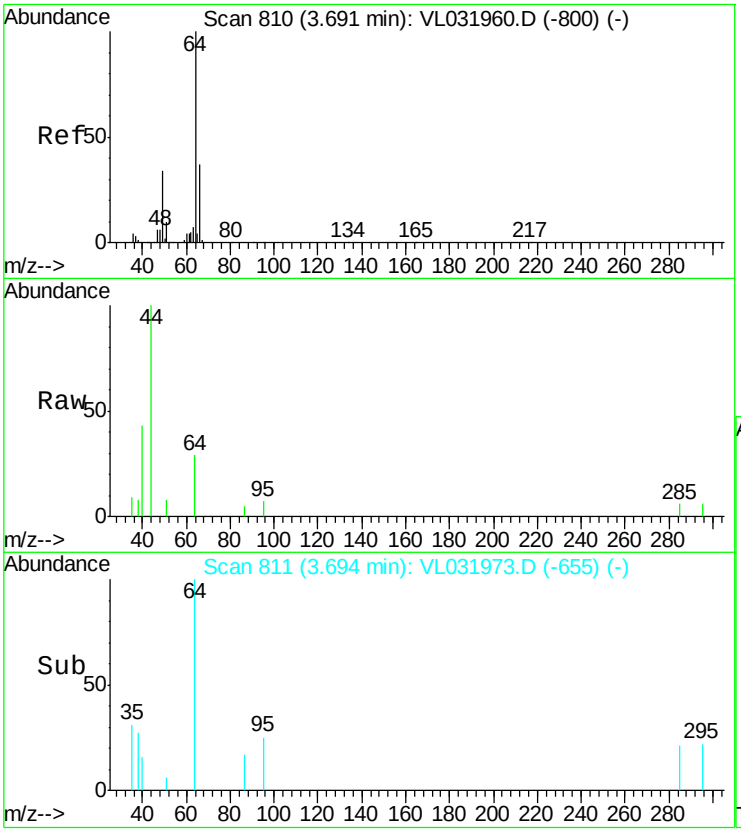


#4
Chloromethane
Concen: 0.52 ppbv
RT: 3.26 min Scan# 675
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 50 Resp: 28686

Ion	Ratio	Lower	Upper
50	100		
52	36.2	26.6	39.8



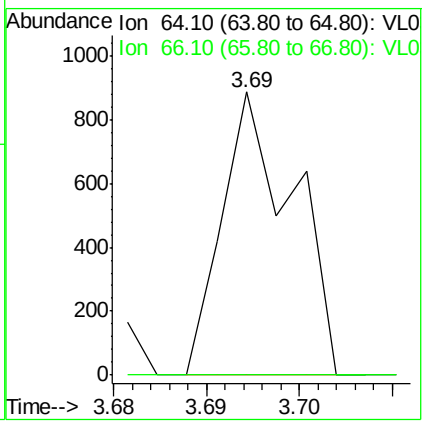


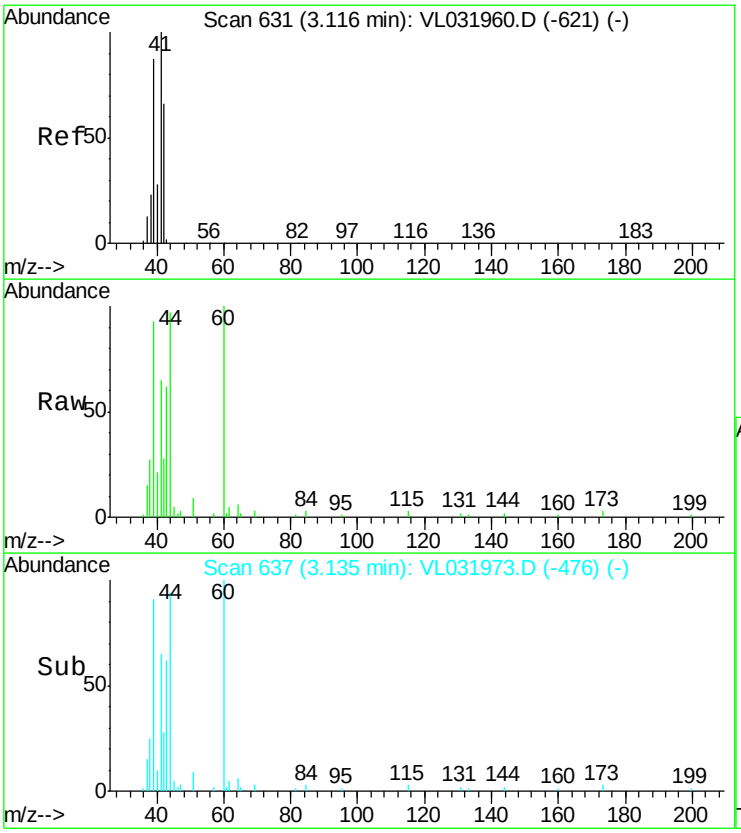
#7
Chloroethane
Concen: 0.02 ppbv
RT: 3.69 min Scan# 811
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 64 Resp: 471

Ion	Ratio	Lower	Upper
64	100		
66	0.0	29.6	44.4#

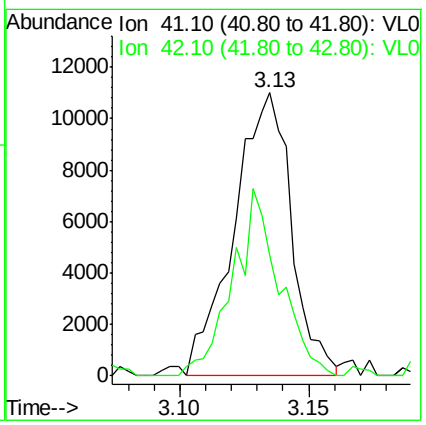


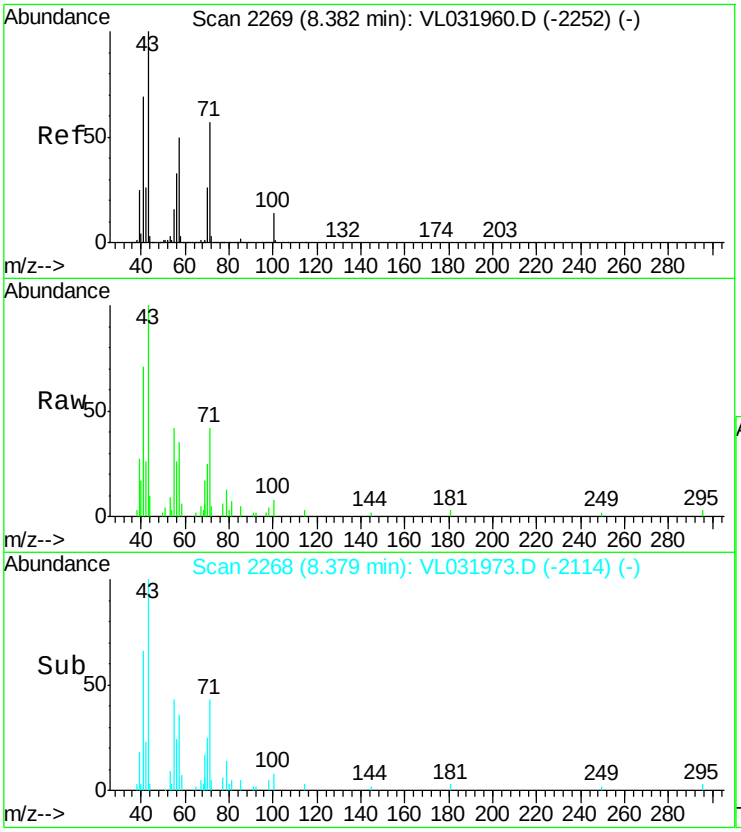


#9
Propene
Concen: 0.44 ppbv
RT: 3.13 min Scan# 637
Delta R.T. 0.02 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 41 Resp: 17145

Ion	Ratio	Lower	Upper
41	100		
42	54.2	53.9	80.9



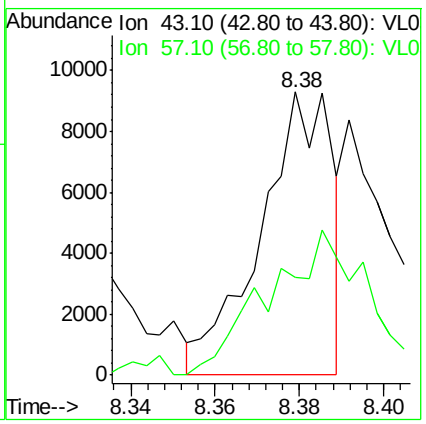


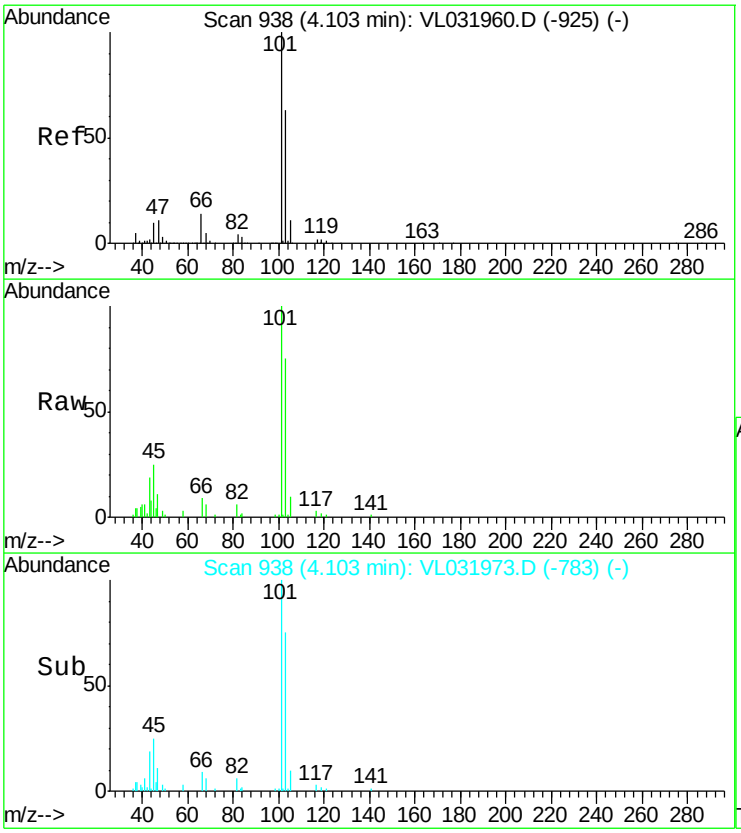
#10
Heptane
Concen: 0.08 ppbv
RT: 8.38 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 10919

Ion	Ratio	Lower	Upper
43	100		
57	78.6	40.7	61.1#

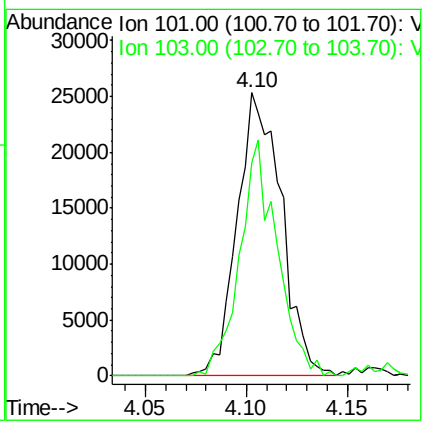


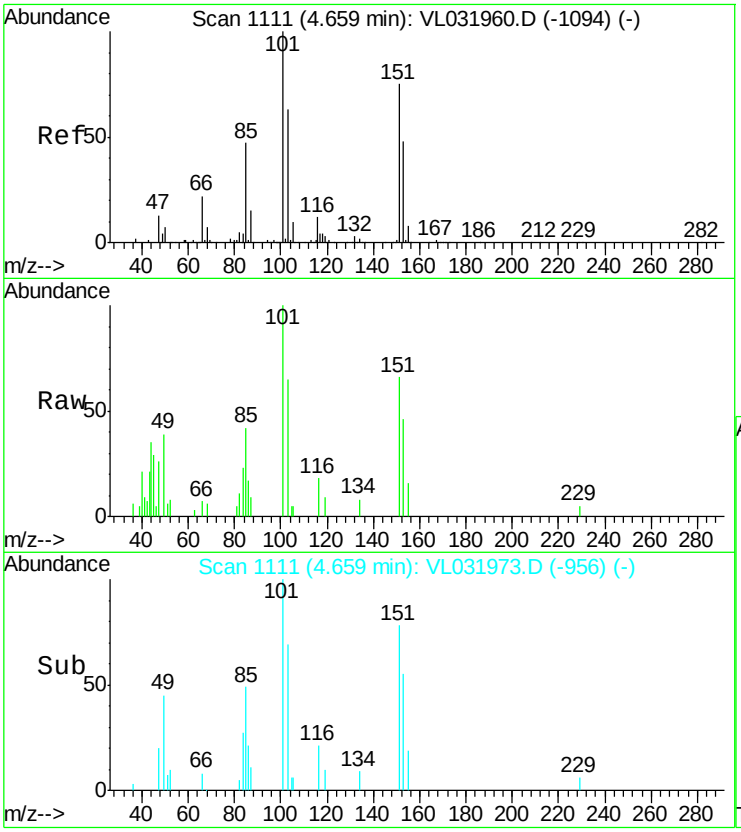


#11
Trichlorofluoromethane
Concen: 0.22 ppbv
RT: 4.10 min Scan# 938
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:101 Resp: 38924

Ion	Ratio	Lower	Upper
101	100		
103	75.4	50.7	76.1



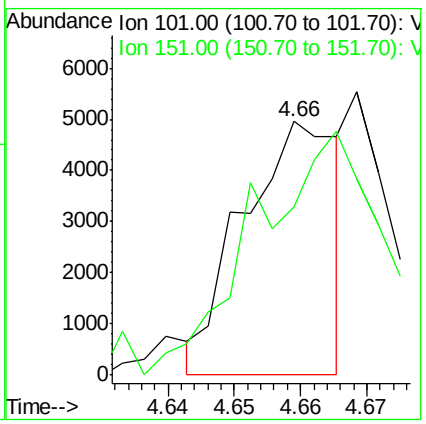


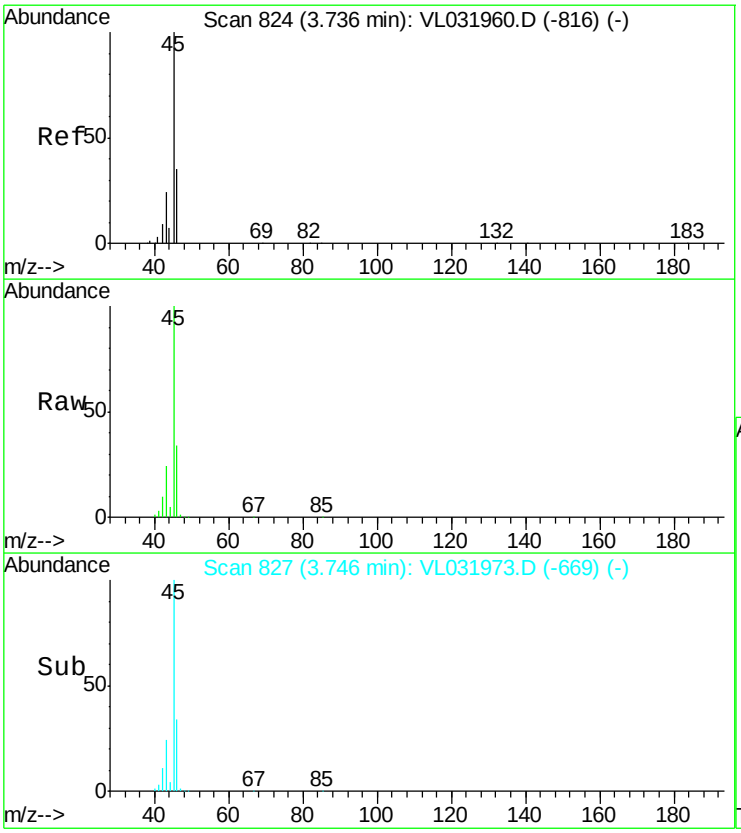
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.04 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:101 Resp: 4908

Ion	Ratio	Lower	Upper
101	100		
151	0.0	60.2	90.2#

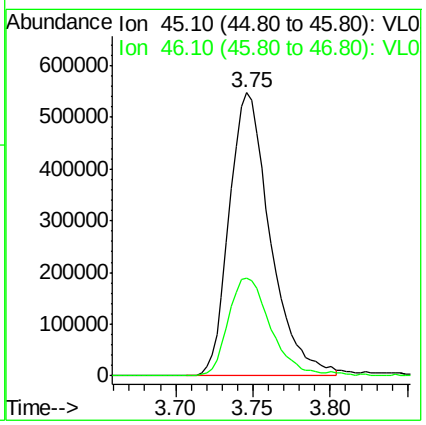


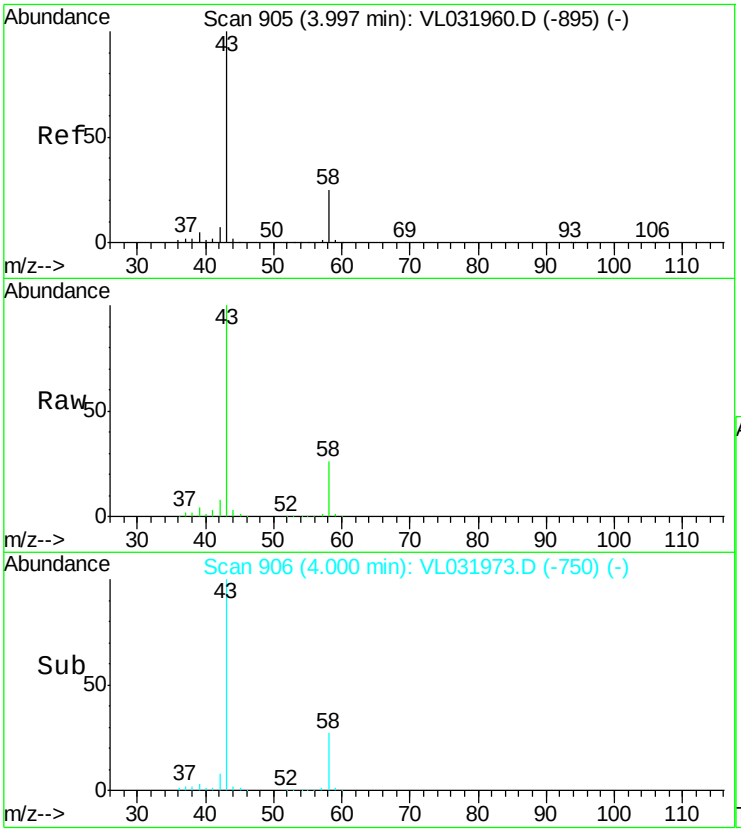


#13
Ethanol
Concen: 69.56 ppbv
RT: 3.75 min Scan# 827
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 45 Resp: 1006600

Ion	Ratio	Lower	Upper
45	100		
46	36.0	0.0	0.0#



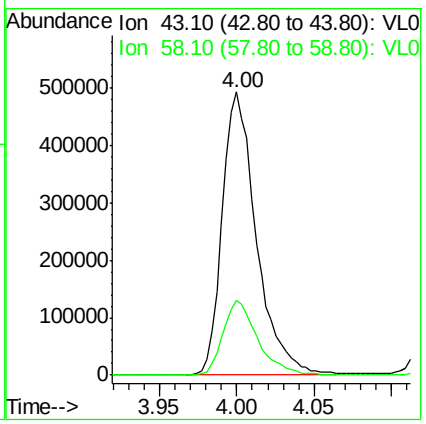


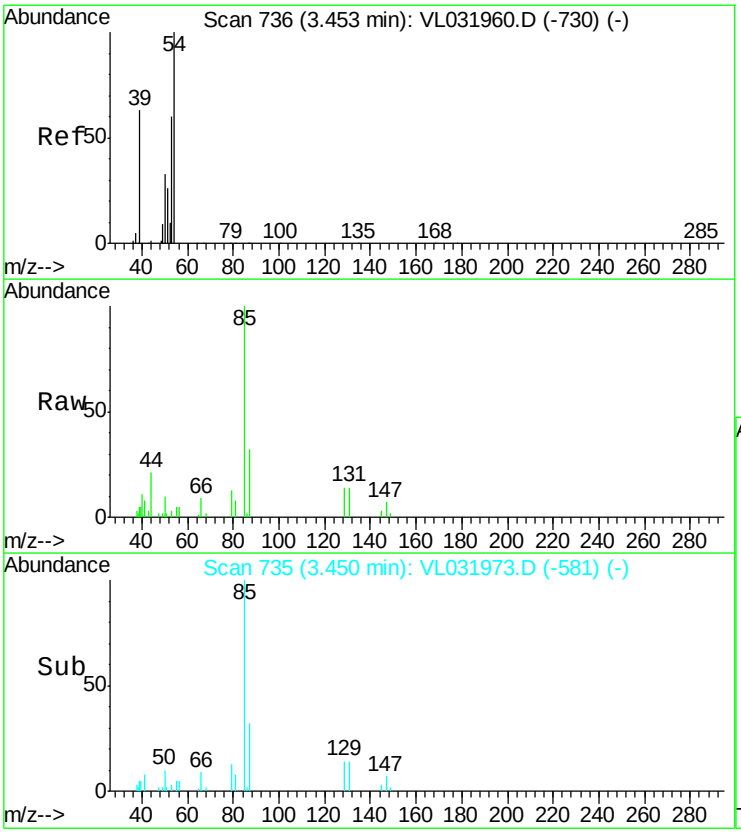
#15
Acetone
Concen: 4.71 ppbv
RT: 4.00 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 748961

Ion	Ratio	Lower	Upper
43	100		
58	27.1	21.1	31.7

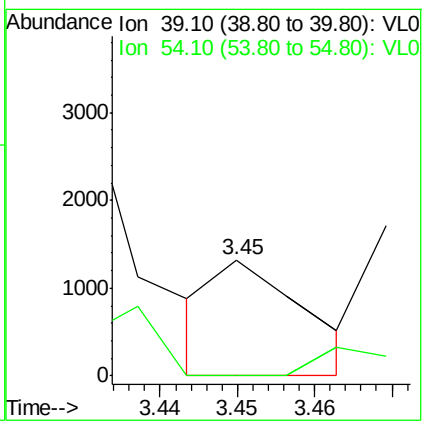


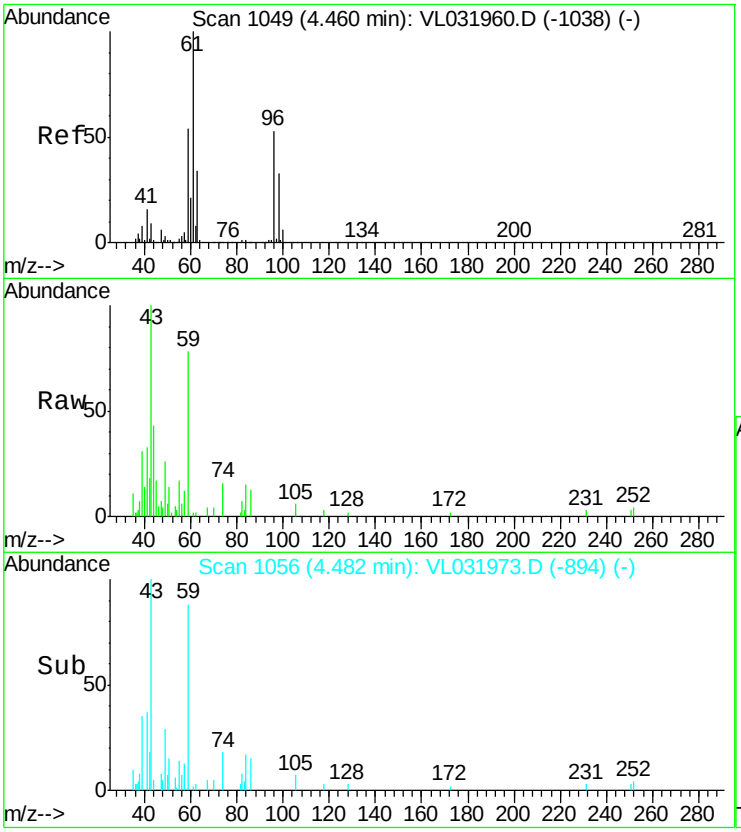


#16
1,3-Butadiene
Concen: 0.01 ppbv
RT: 3.45 min Scan# 735
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 39 Resp: 530

Ion	Ratio	Lower	Upper
39	100		
54	250.8	66.2	99.2#



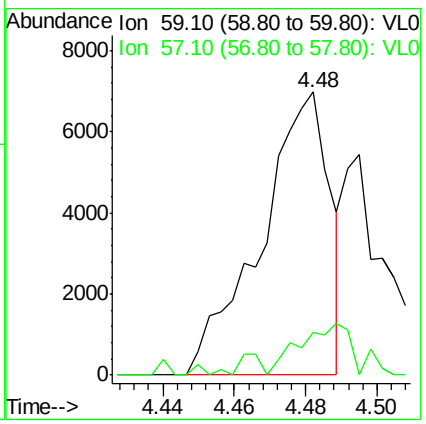


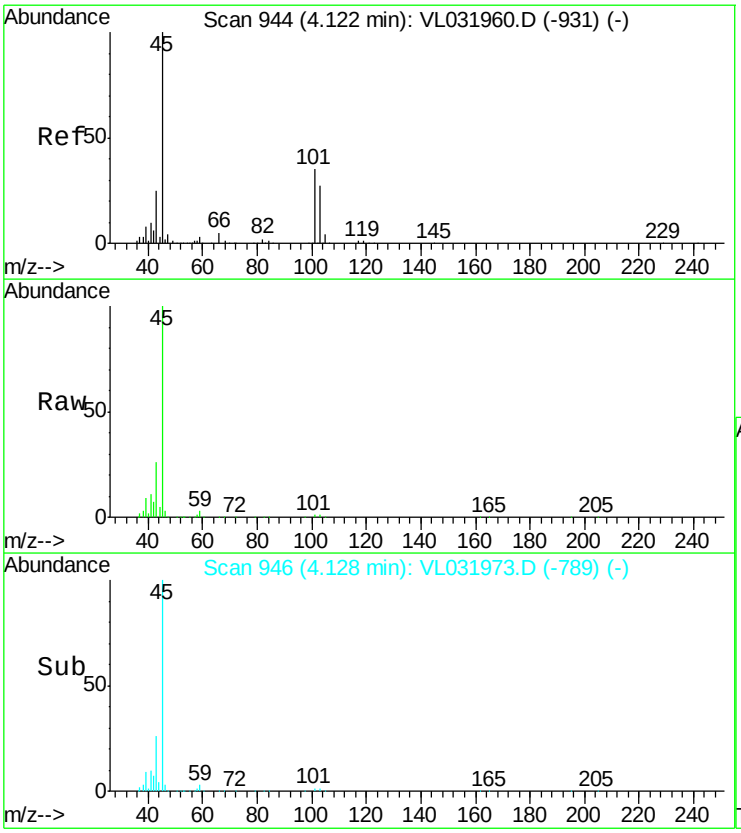
#17
tert-Butyl alcohol
Concen: 0.14 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. 0.02 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 59 Resp: 9296

Ion	Ratio	Lower	Upper
59	100		
57	15.4	8.3	12.5#

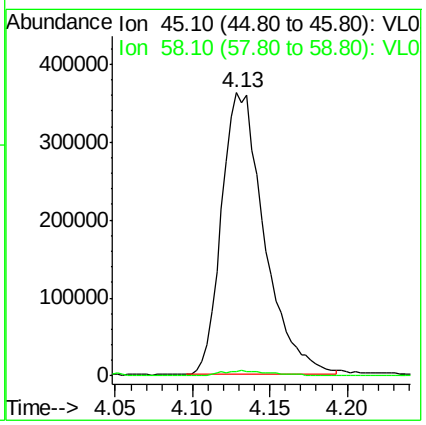


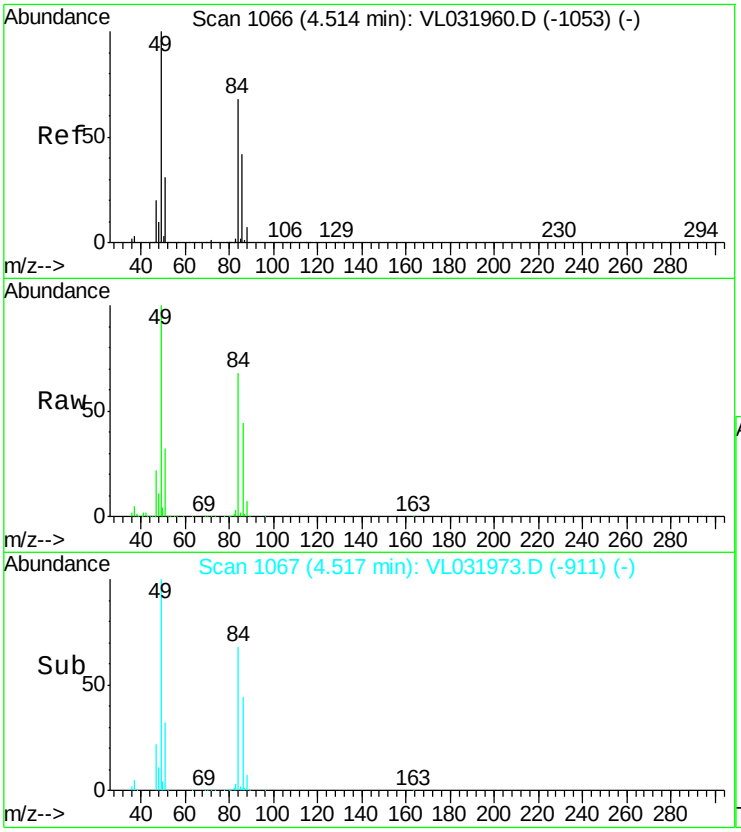


#19
Isopropyl Alcohol
Concen: 8.09 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 45 Resp: 695145

Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.4	2.2#



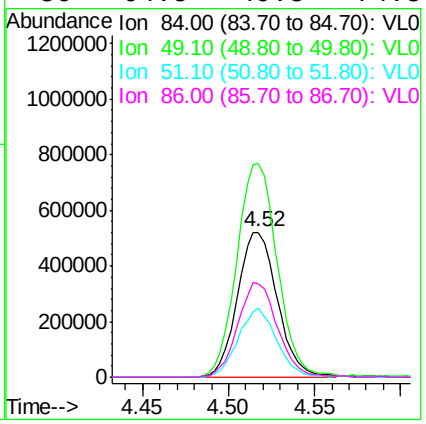


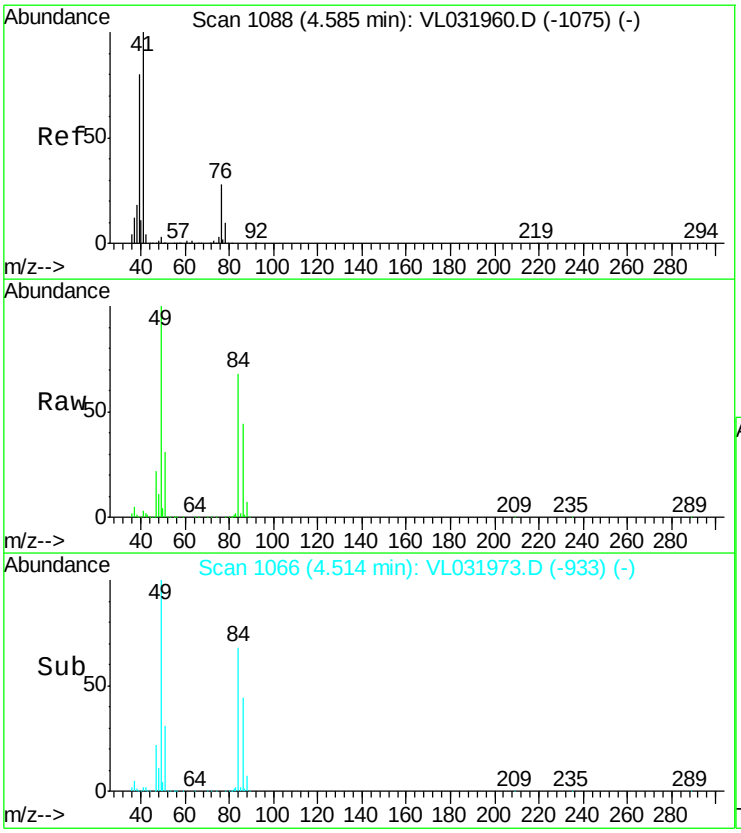
#20
Methylene Chloride
Concen: 15.65 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 84 Resp: 839207

Ion	Ratio	Lower	Upper
84	100		
49	147.0	118.6	178.0
51	47.2	36.6	54.8
86	64.5	49.8	74.8

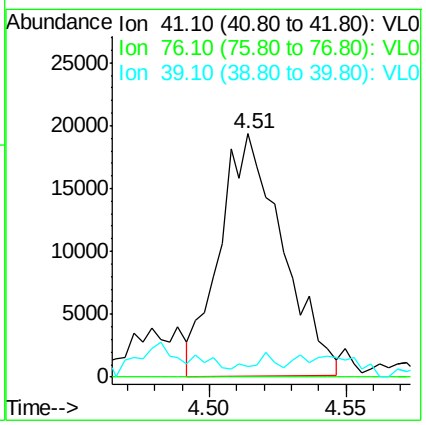


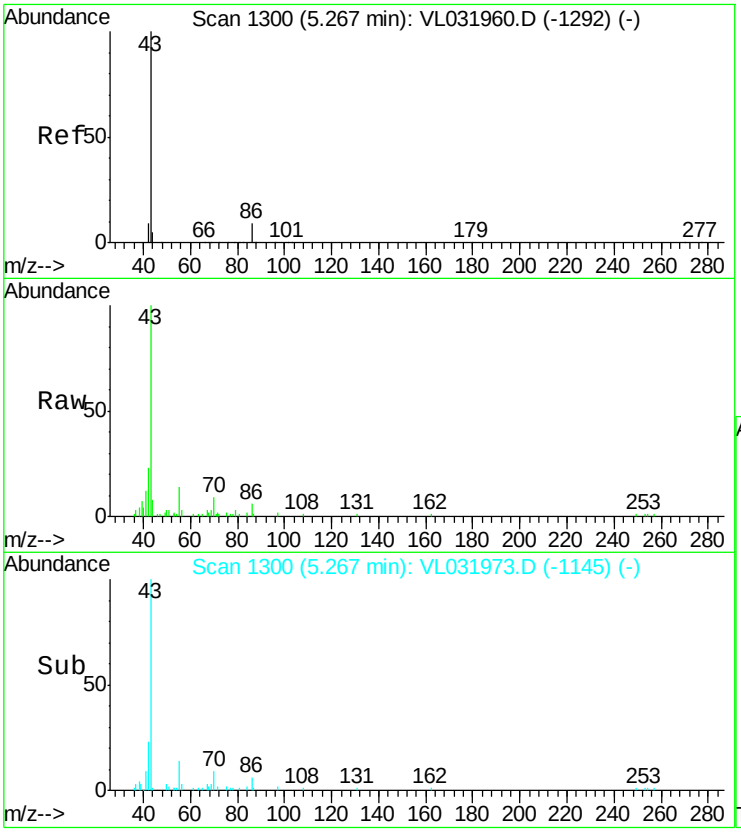


#21
Allyl Chloride
Concen: 0.34 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. -0.07 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 41 Resp: 30857

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.4	35.0#
39	12.8	64.5	96.7#



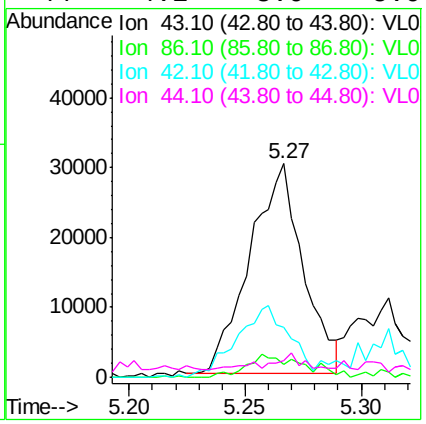


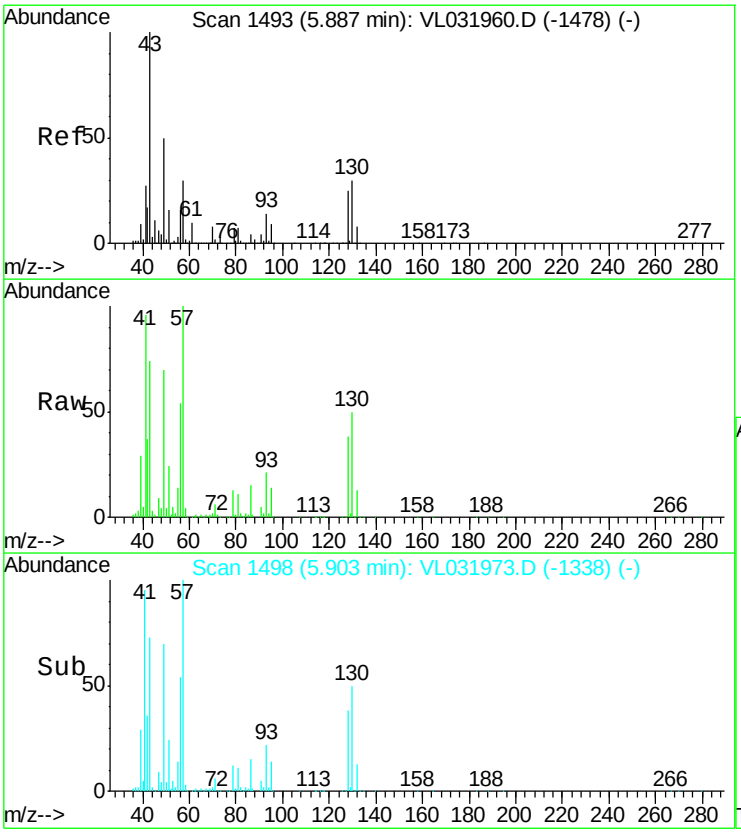
#23
Vinyl Acetate
Concen: 0.26 ppbv
RT: 5.27 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 48045

Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.1	9.1
42	23.7	8.0	12.0#
44	4.2	3.9	5.9

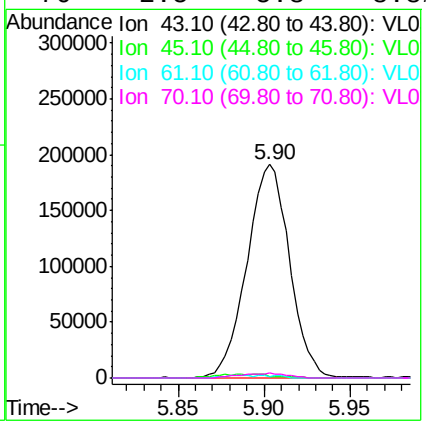


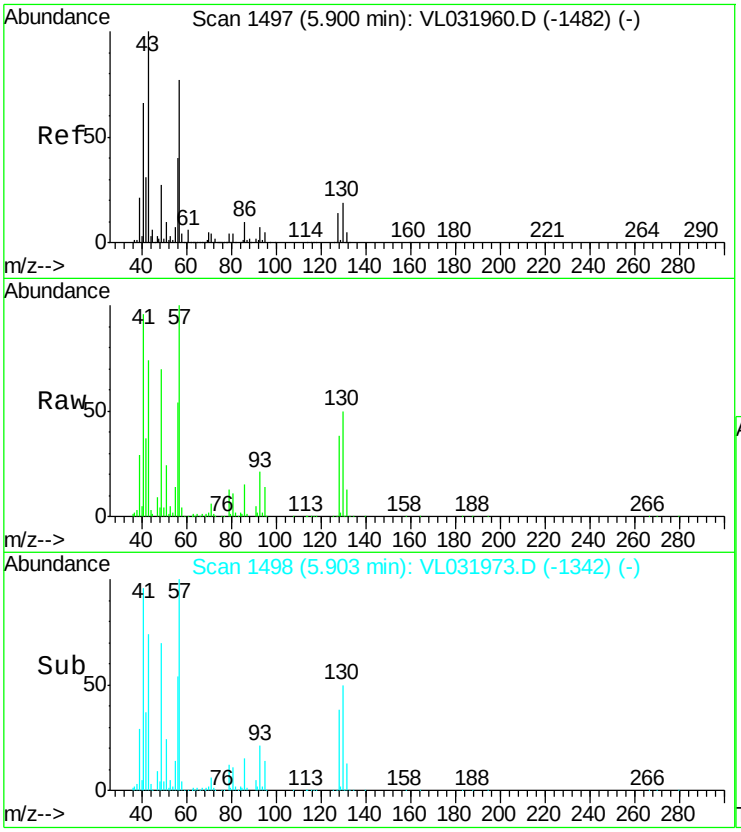


#25
Ethyl Acetate
Concen: 1.20 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.02 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 43 Resp: 328252

Ion	Ratio	Lower	Upper
43	100		
45	2.4	7.8	11.6#
61	1.4	7.4	11.2#
70	2.5	5.8	8.8#



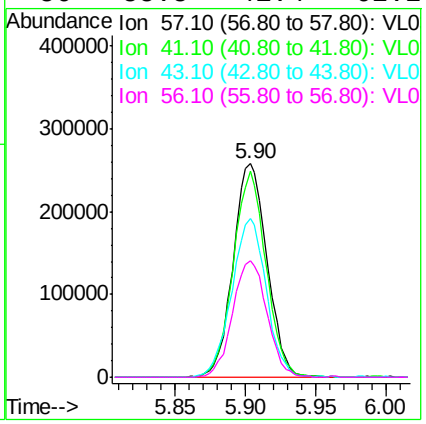


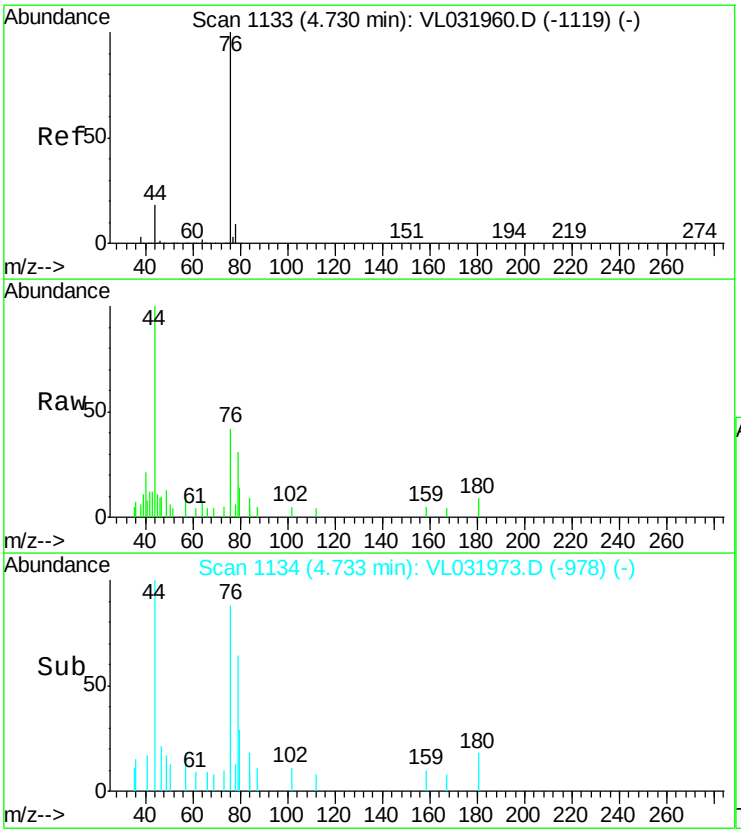
#26
Hexane
Concen: 3.40 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 57 Resp: 435883

Ion	Ratio	Lower	Upper
57	100		
41	93.4	71.8	107.6
43	76.1	171.5	257.3#
56	55.5	41.4	62.2

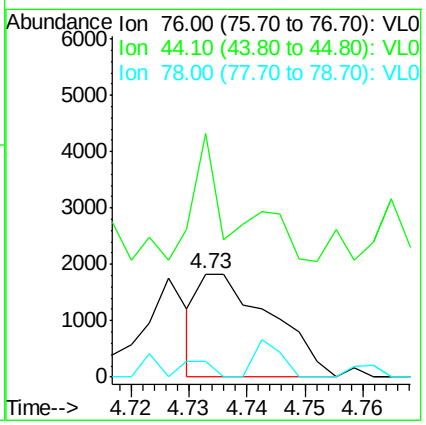


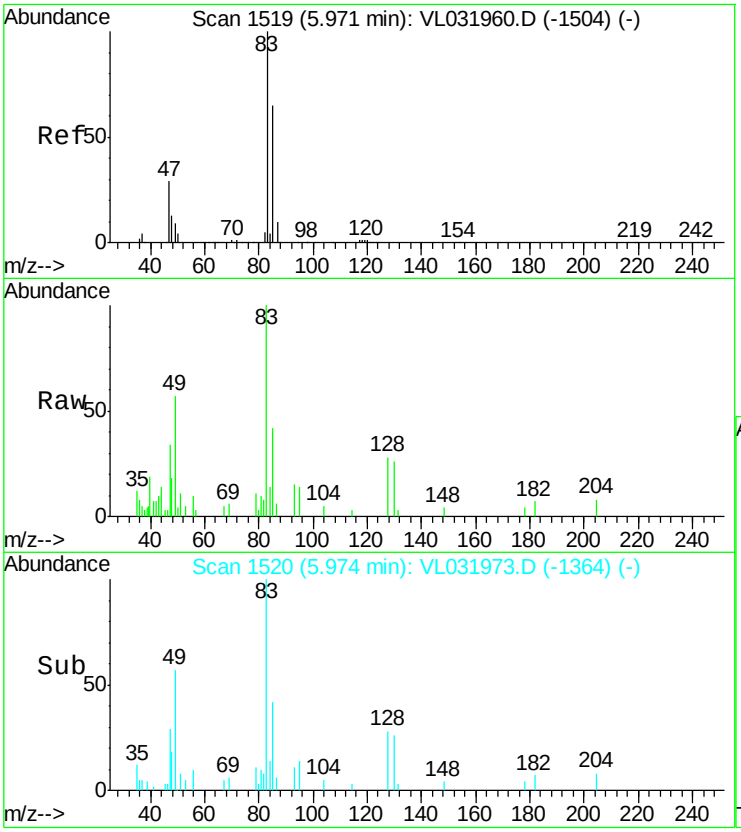


#27
Carbon Disulfide
Concen: 0.01 ppbv
RT: 4.73 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 76 Resp: 1599

Ion	Ratio	Lower	Upper
76	100		
44	211.2	15.4	23.0#
78	29.5	7.4	11.0#



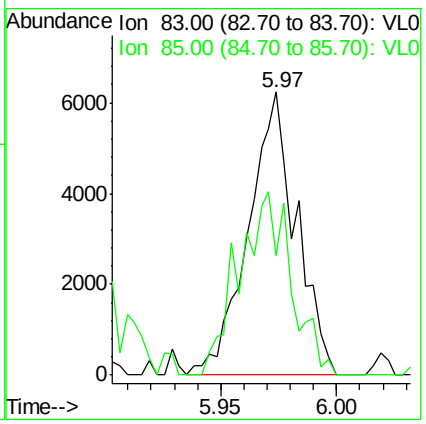


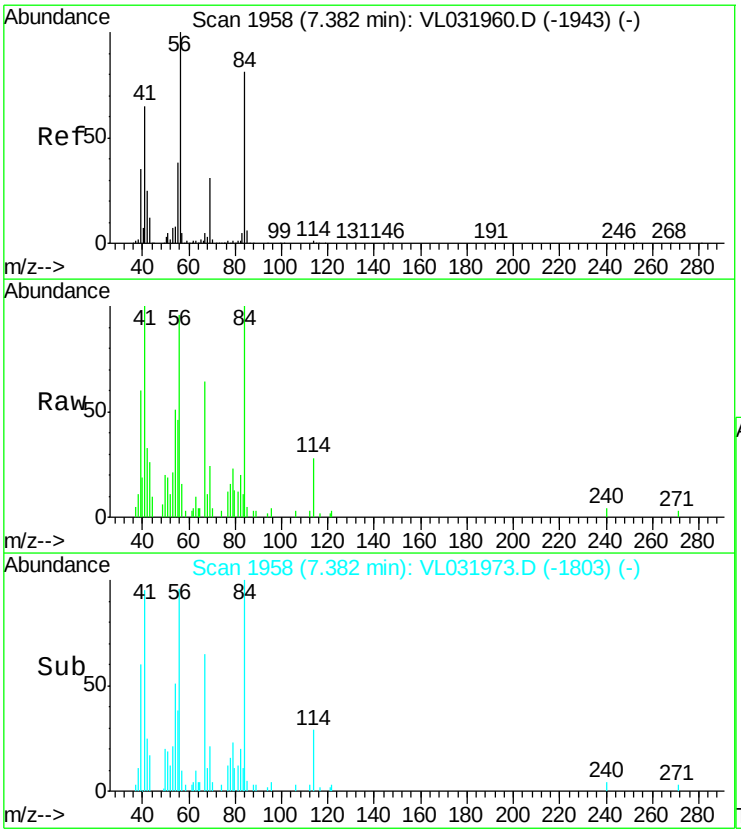
#29
Chloroform
Concen: 0.04 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 83 Resp: 8976

Ion	Ratio	Lower	Upper
83	100		
85	42.1	52.2	78.2#

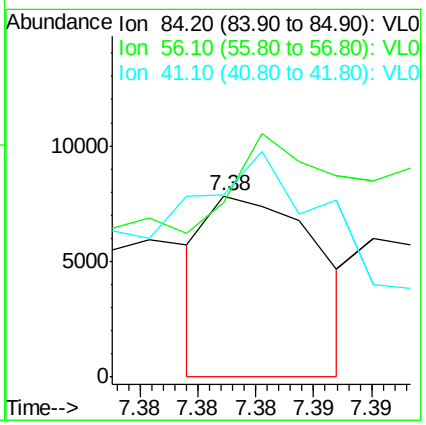


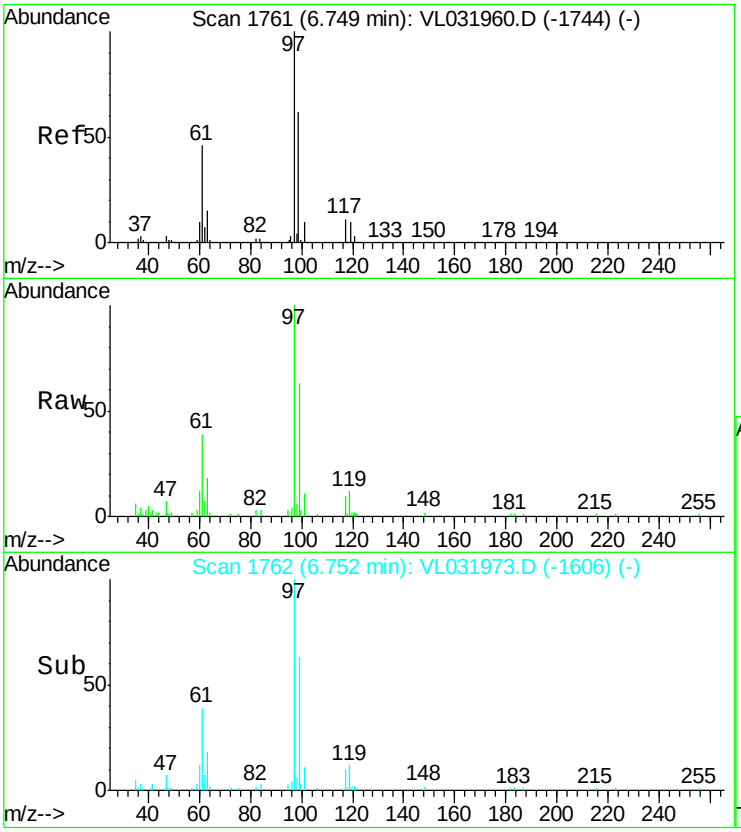


#30
Cyclohexane
Concen: 0.06 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 84 Resp: 5148

Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	361.0	66.8	100.2#



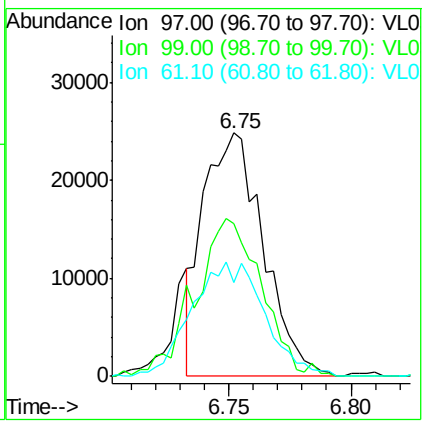


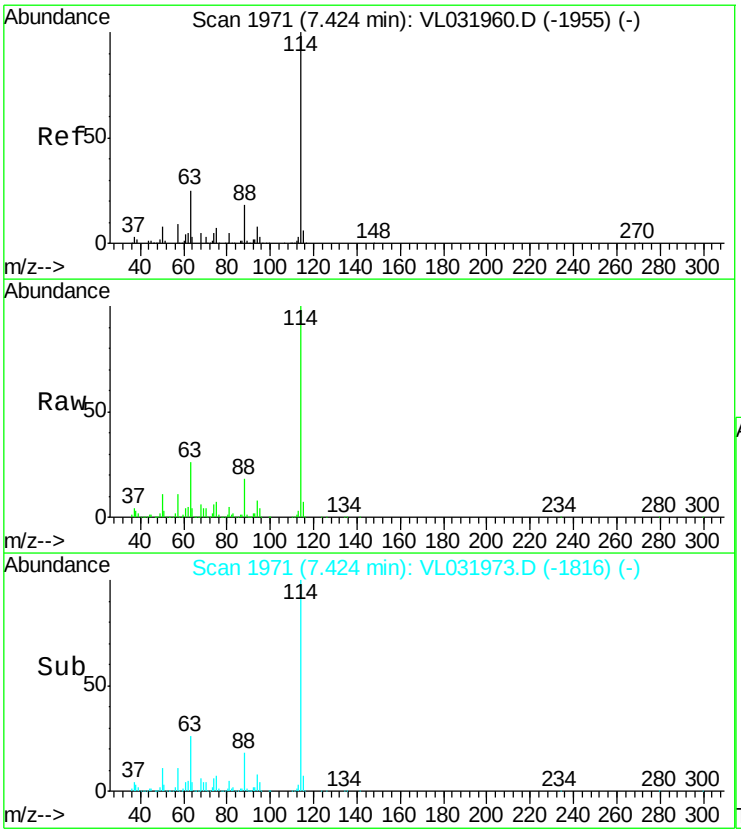
#32
1,1,1-Trichloroethane
Concen: 0.23 ppbv
RT: 6.75 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 97 Resp: 42477

Ion	Ratio	Lower	Upper
97	100		
99	72.4	51.0	76.6
61	56.9	38.1	57.1

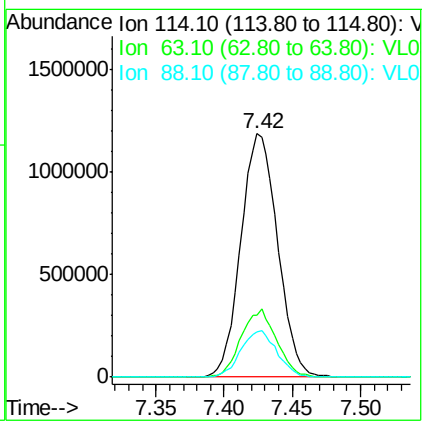


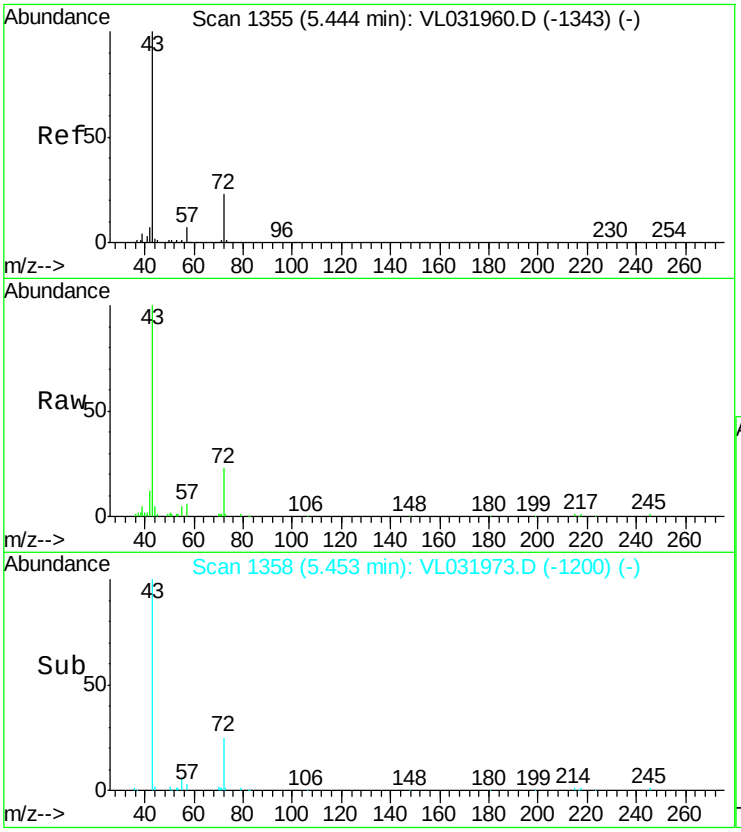


#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.42 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:114 Resp: 2220966

Ion	Ratio	Lower	Upper
114	100		
63	27.0	20.8	31.2
88	18.7	14.6	21.8



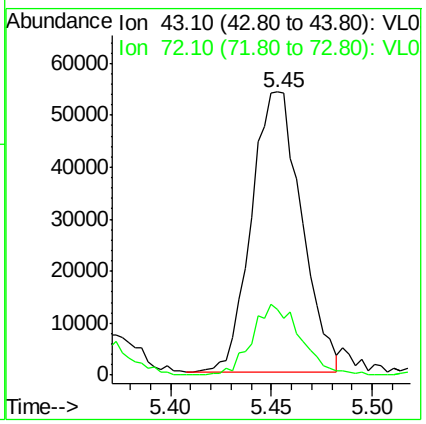


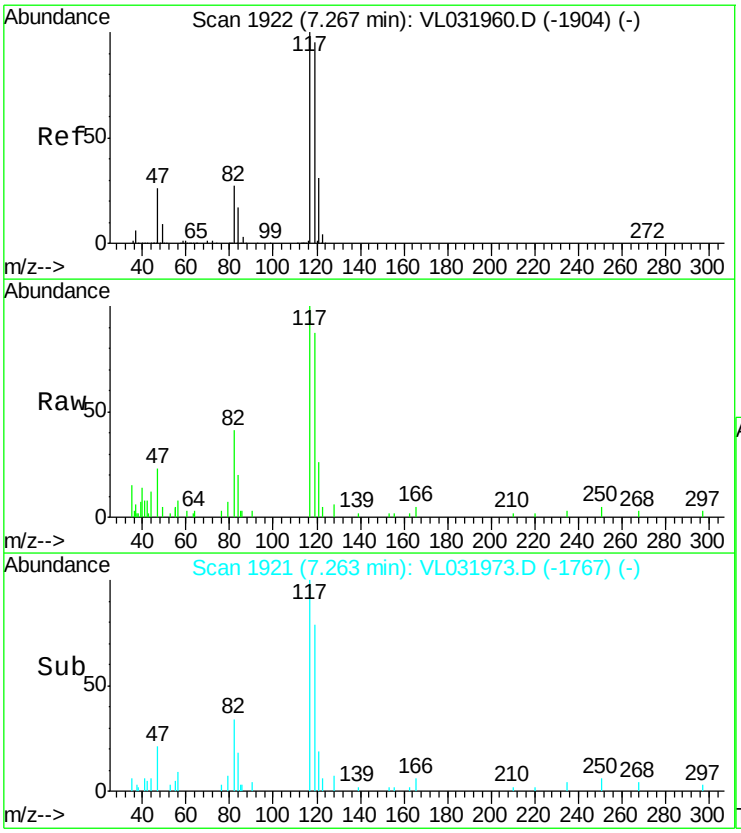
#34
2-Butanone
Concen: 0.51 ppbv
RT: 5.45 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 93459

Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.3	27.5

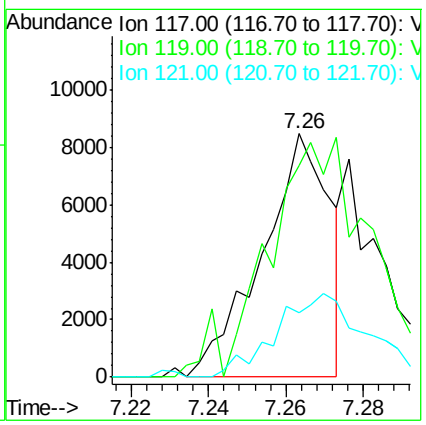


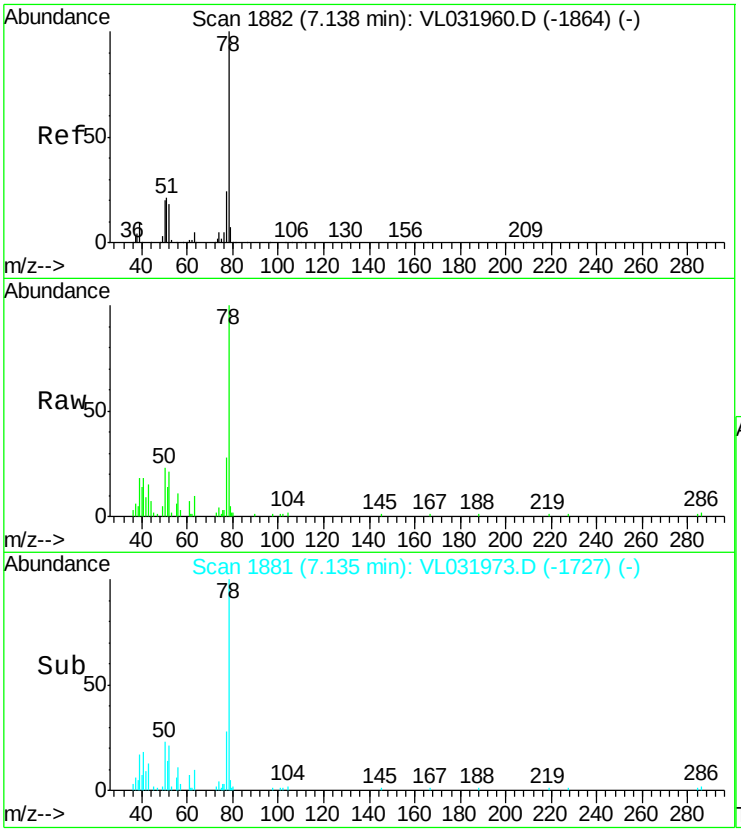


#35
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 7.26 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:117 Resp: 10292

Ion	Ratio	Lower	Upper
117	100		
119	79.6	76.4	114.6
121	26.3	24.4	36.6



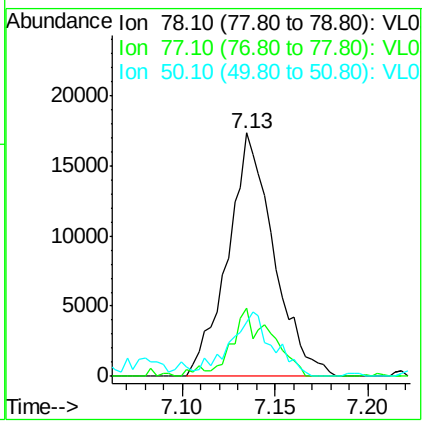


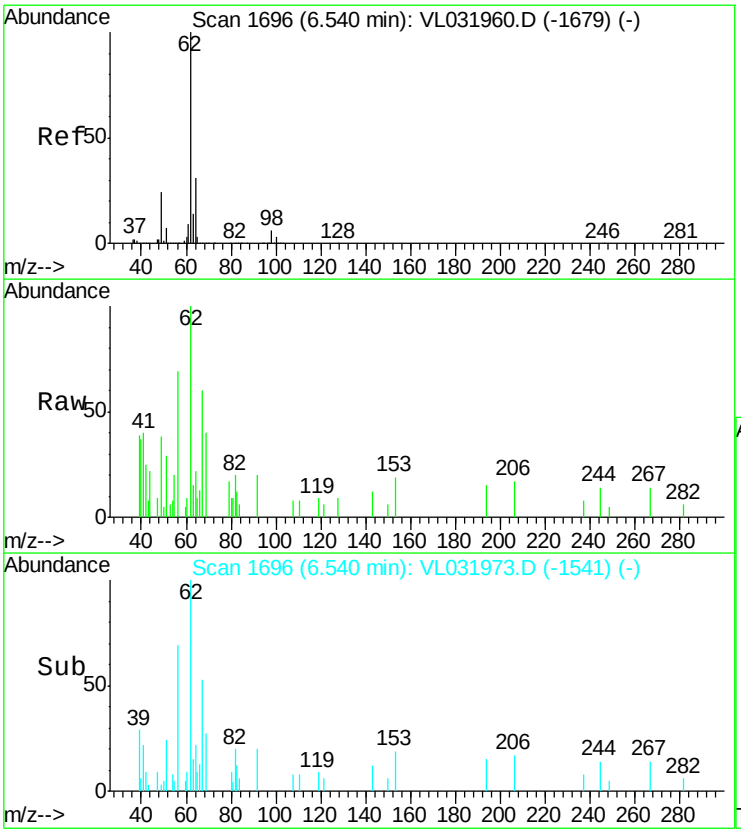
#36
Benzene
Concen: 0.14 ppbv
RT: 7.13 min Scan# 1881
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 29828

Ion	Ratio	Lower	Upper
78	100		
77	27.0	19.2	28.8
50	21.5	16.2	24.4

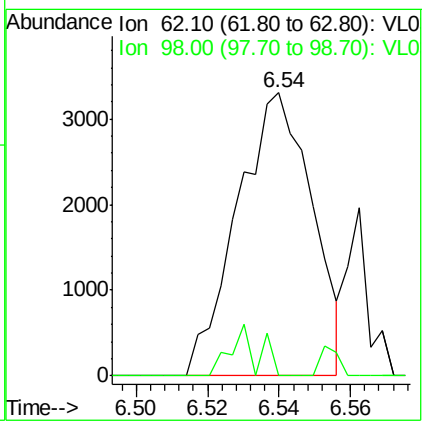


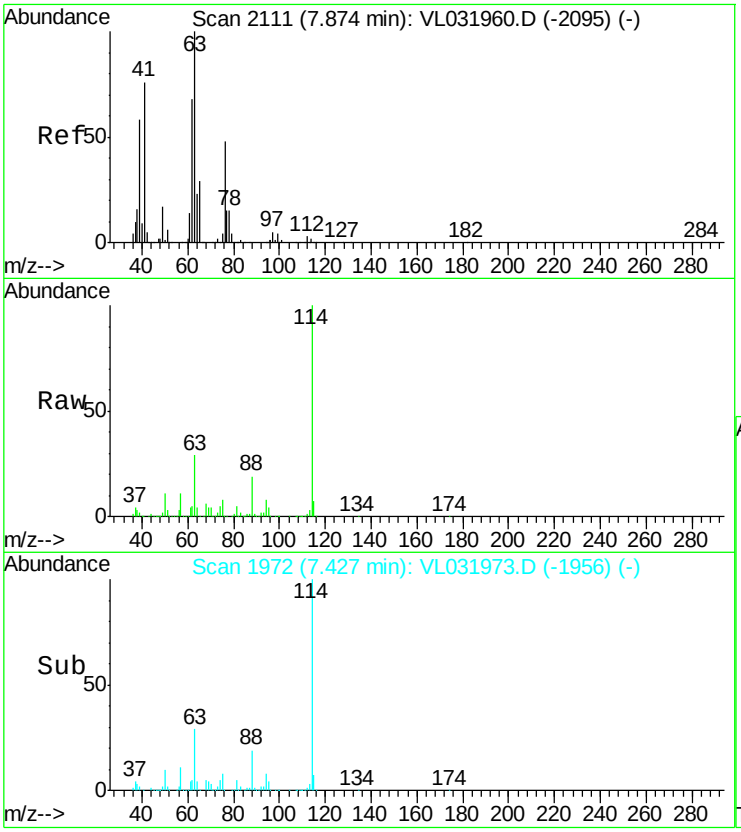


#37
1,2-Dichloroethane
Concen: 0.03 ppbv
RT: 6.54 min Scan# 1696
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 62 Resp: 4789

Ion	Ratio	Lower	Upper
62	100		
98	6.6	4.6	6.8



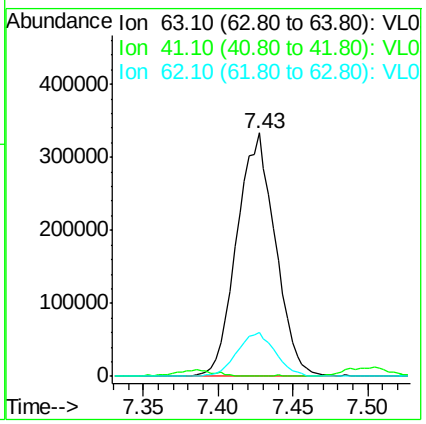


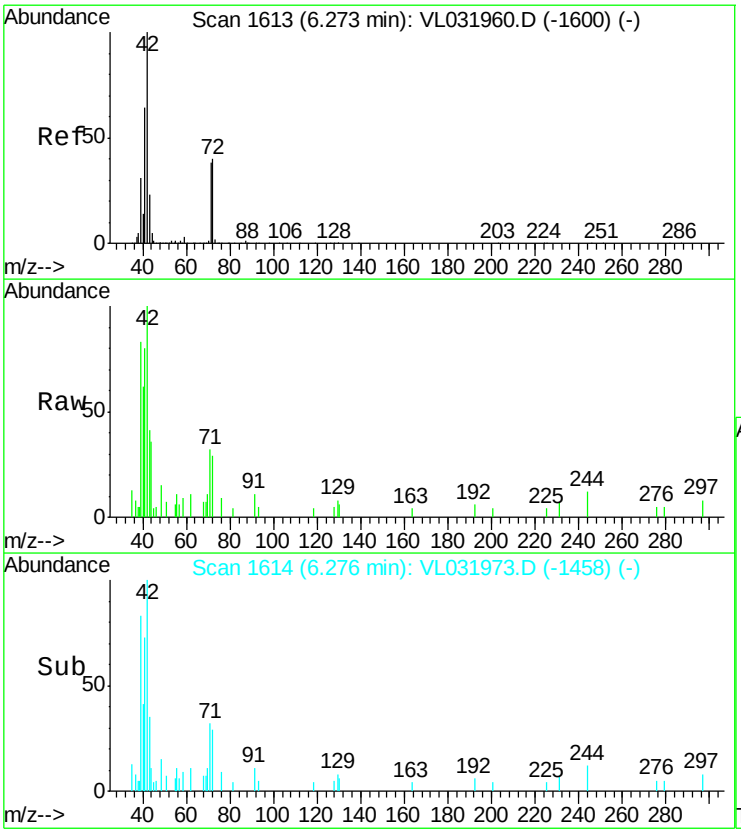
#39
1,2-Dichloropropane
Concen: 8.15 ppbv
RT: 7.43 min Scan# 1972
Delta R.T. -0.45 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 63 Resp: 593655

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.7	91.1#
62	18.2	54.7	82.1#

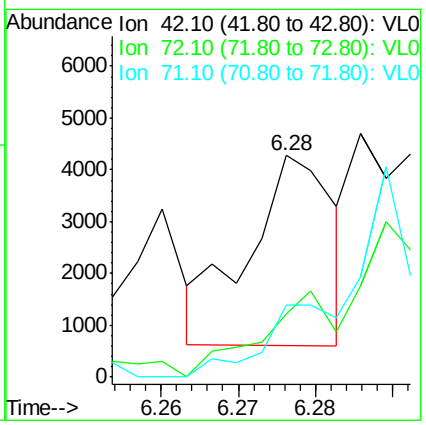


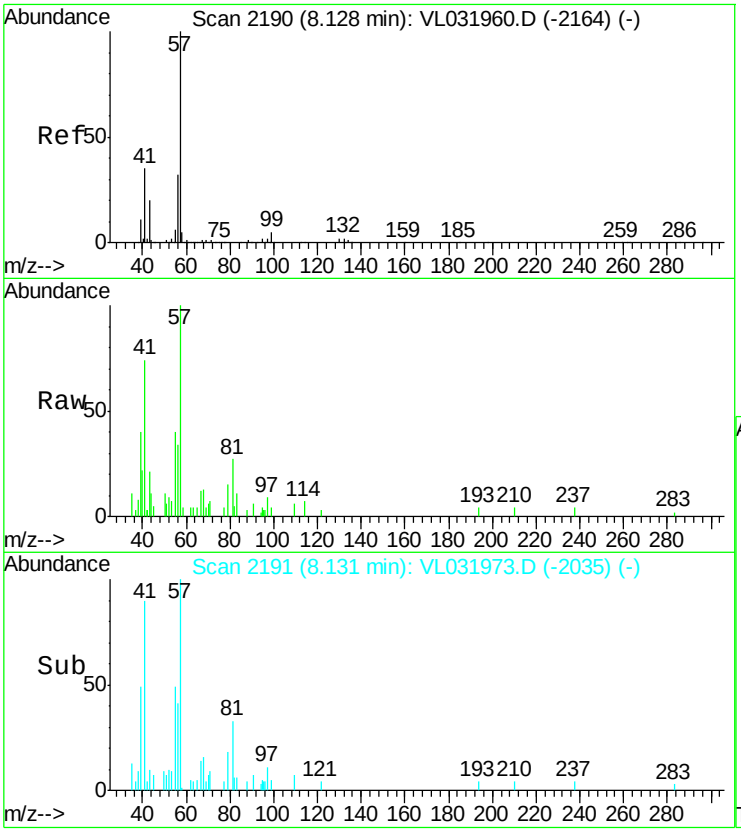


#41
Tetrahydrofuran
Concen: 0.04 ppbv
RT: 6.28 min Scan# 1614
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 42 Resp: 2804

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	31.4	47.2#



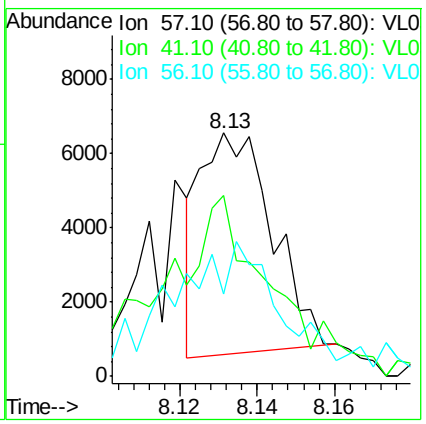


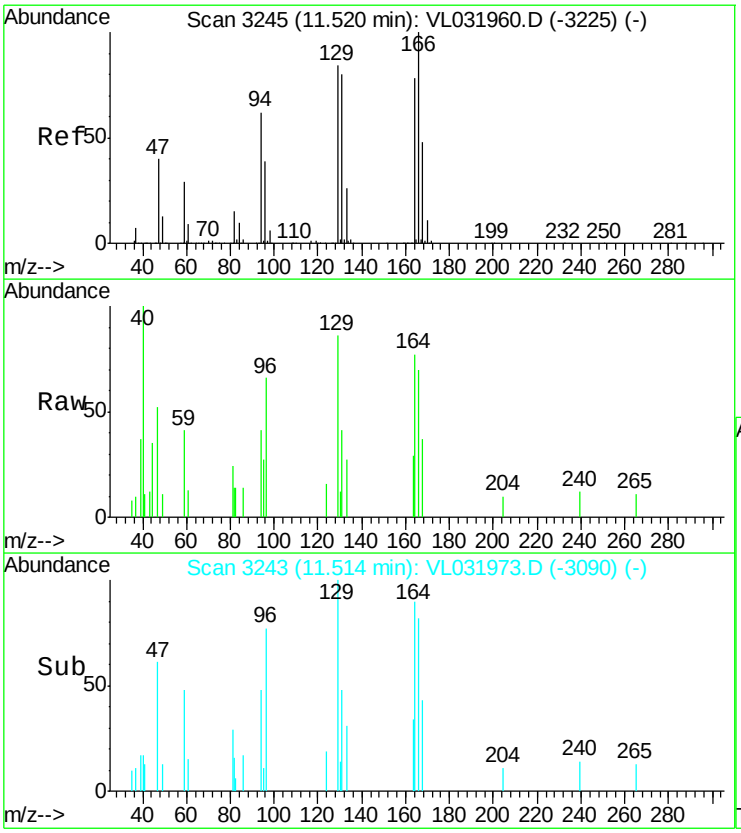
#44
2,2,4-Trimethylpentane
Concen: 0.02 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 57 Resp: 7624

Ion	Ratio	Lower	Upper
57	100		
41	129.2	26.6	39.8#
56	100.2	24.4	36.6#

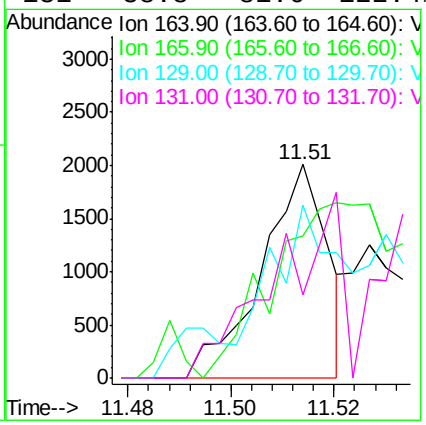


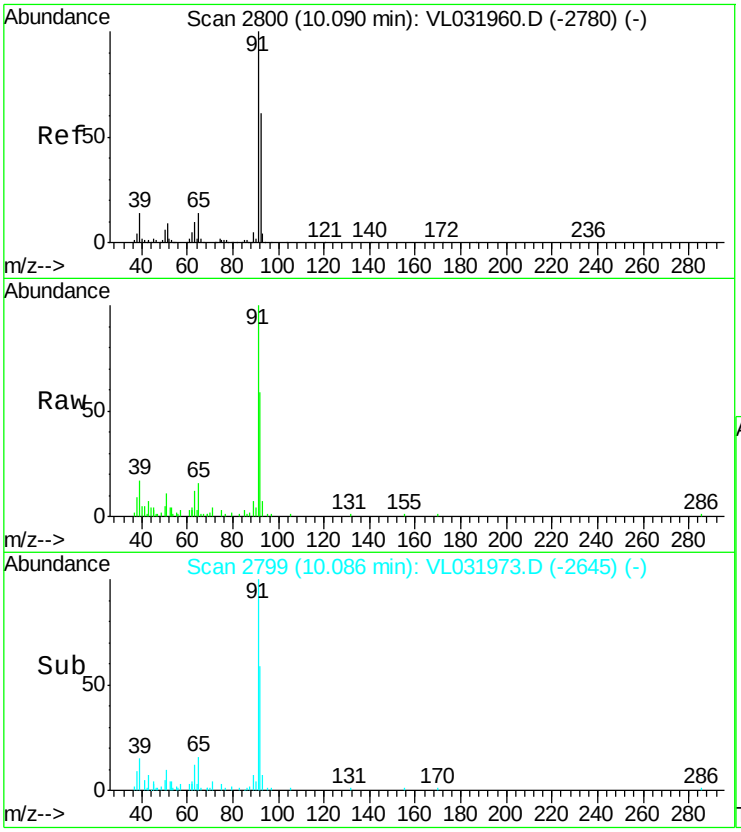


#52
Tetrachloroethene
Concen: 0.02 ppbv
RT: 11.51 min Scan# 3243
Delta R.T. -0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:164 Resp: 1774

Ion	Ratio	Lower	Upper
164	100		
166	58.6	101.9	152.9#
129	57.7	85.8	128.6#
131	38.8	81.6	122.4#



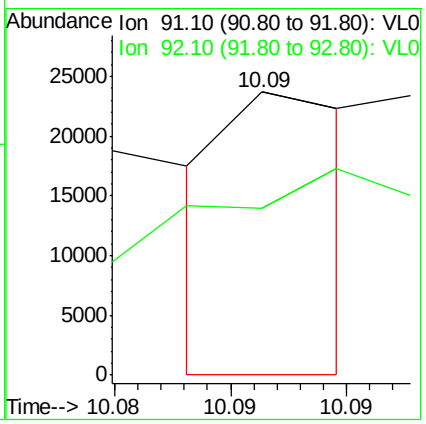


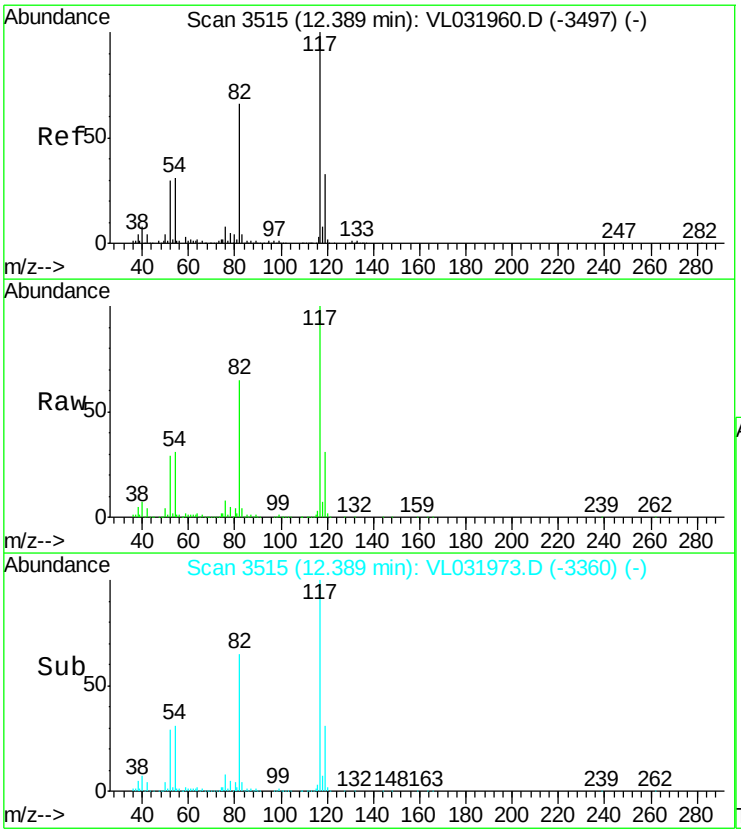
#53
Toluene
Concen: 0.04 ppbv
RT: 10.09 min Scan# 2799
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 91 Resp: 8850

Ion	Ratio	Lower	Upper
91	100		
92	382.1	47.4	71.2#

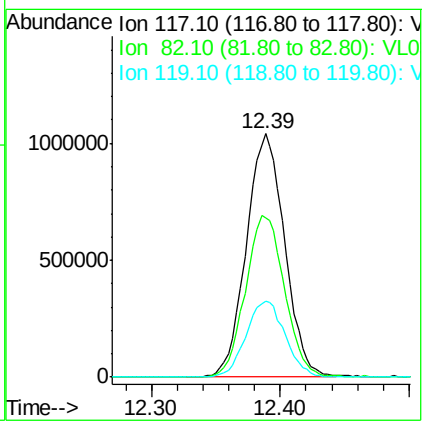


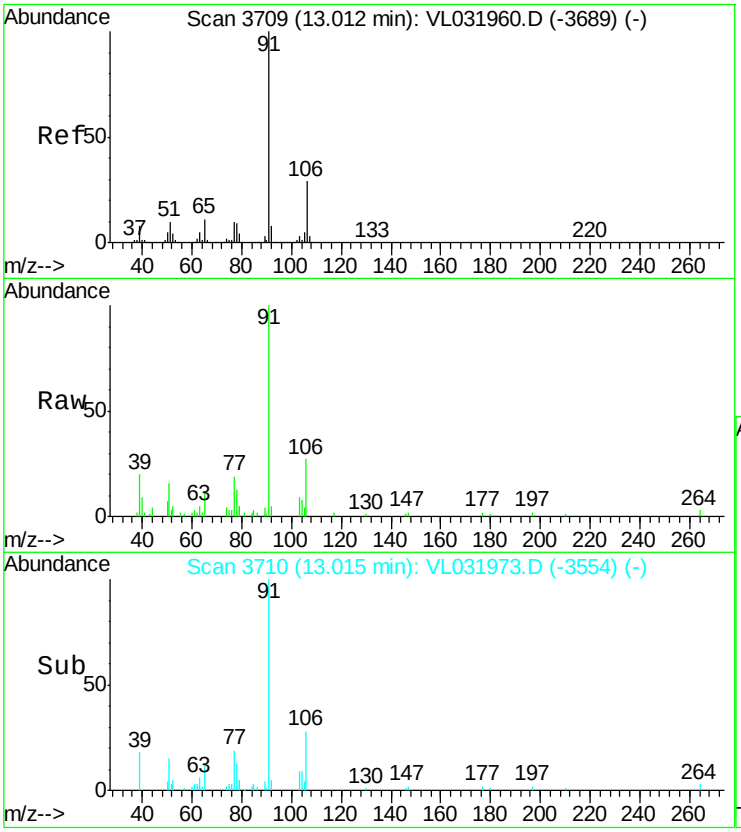


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:117 Resp: 2156566

Ion	Ratio	Lower	Upper
117	100		
82	67.7	51.6	77.4
119	32.3	44.2	66.4#



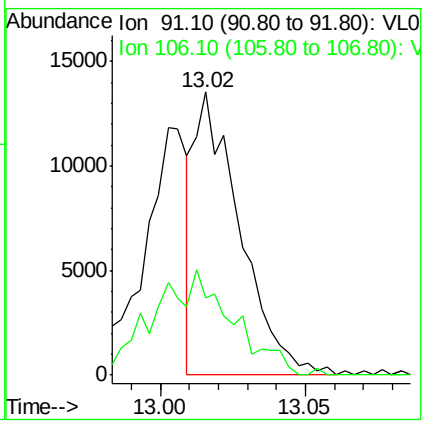


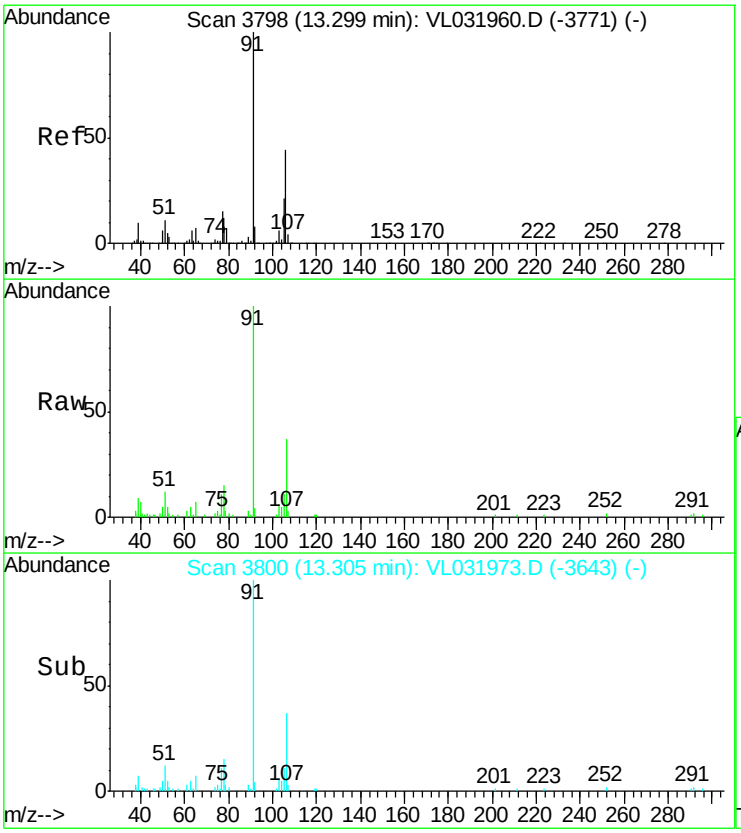
#58
Ethyl Benzene
Concen: 0.05 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. 0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 91 Resp: 14736

Ion	Ratio	Lower	Upper
91	100		
106	27.2	23.4	35.2

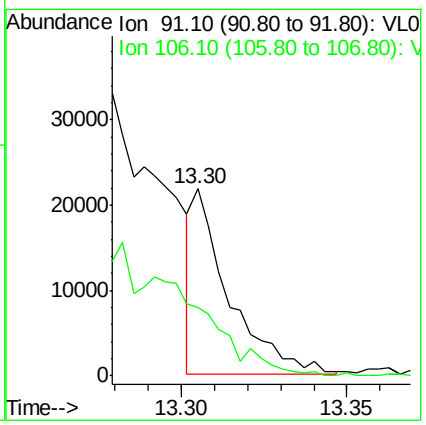


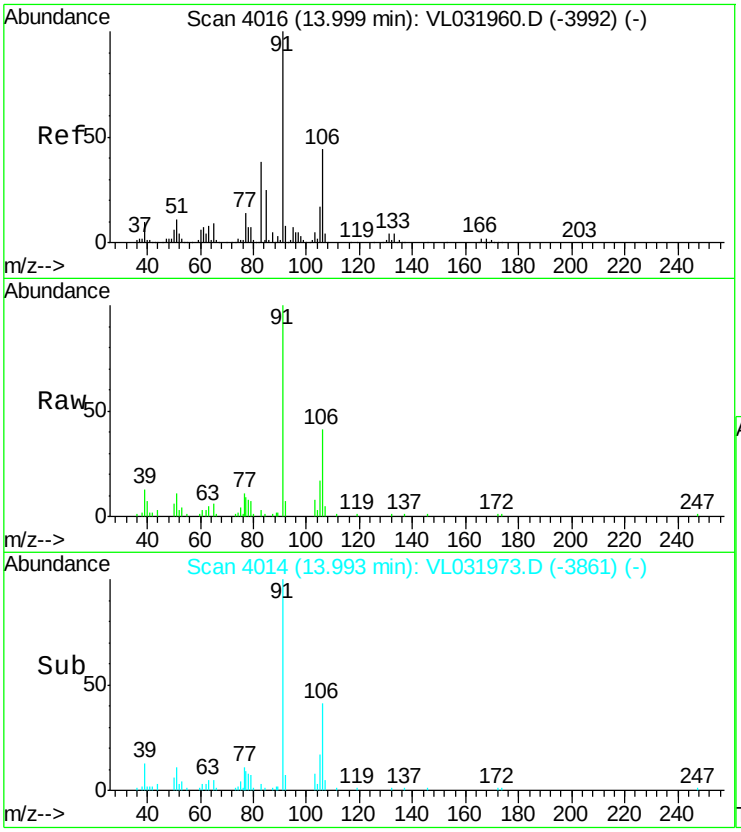


#59
m/p-Xylene
Concen: 0.06 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion: 91 Resp: 16286

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.9	53.9#



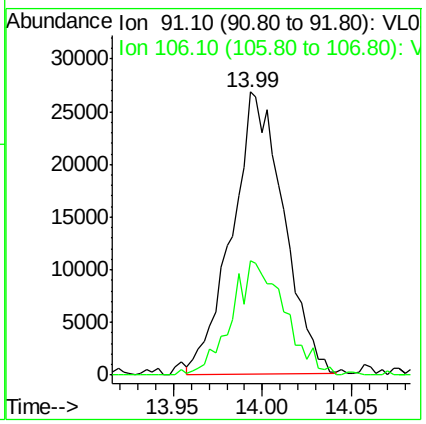


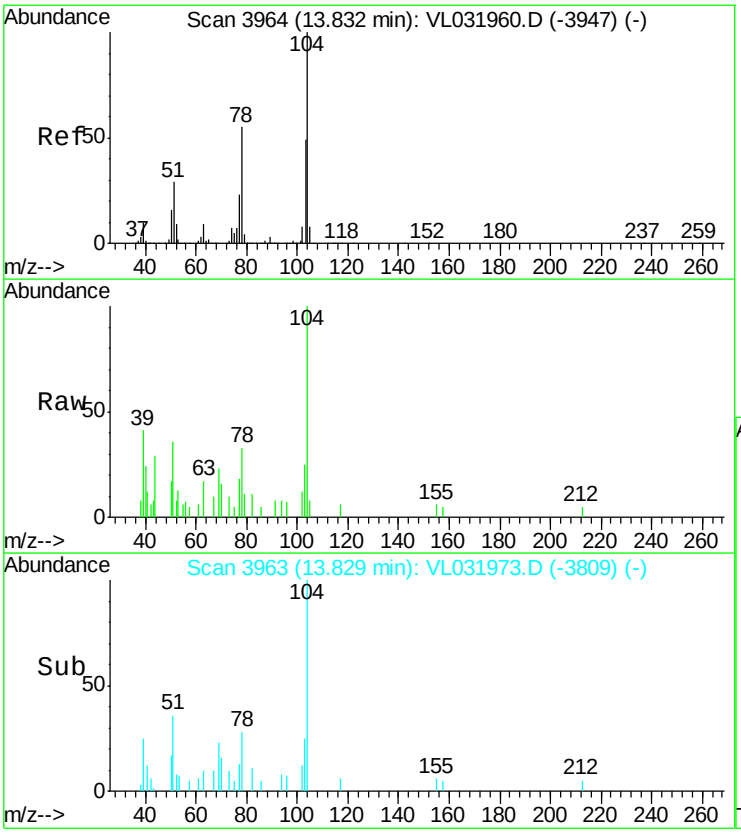
#60
o-Xylene
Concen: 0.21 ppbv
RT: 13.99 min Scan# 4014
Delta R.T. -0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 91 Resp: 54111

Ion	Ratio	Lower	Upper
91	100		
106	41.9	21.5	64.5

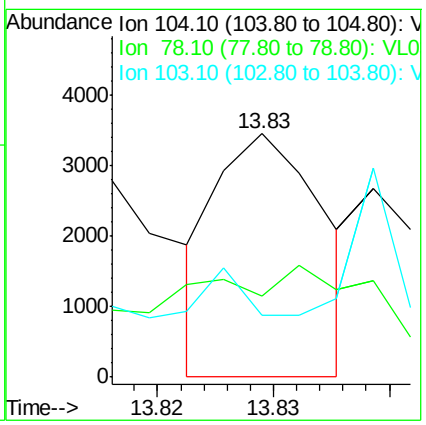


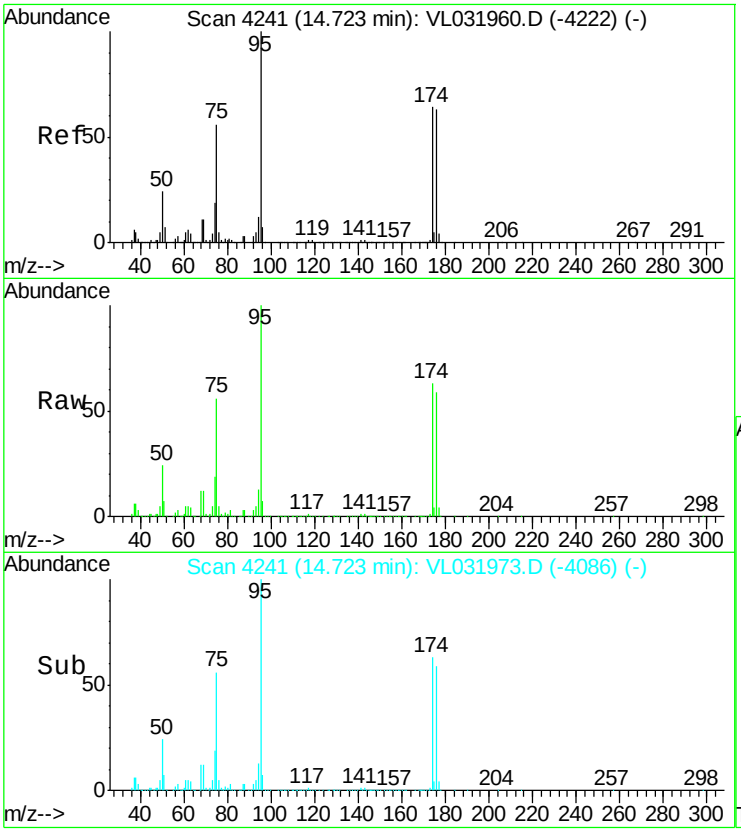


#61
Styrene
Concen: 0.04 ppbv
RT: 13.83 min Scan# 3963
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:104 Resp: 2192

Ion	Ratio	Lower	Upper
104	100		
78	188.2	43.8	65.8#
103	0.0	38.4	57.6#



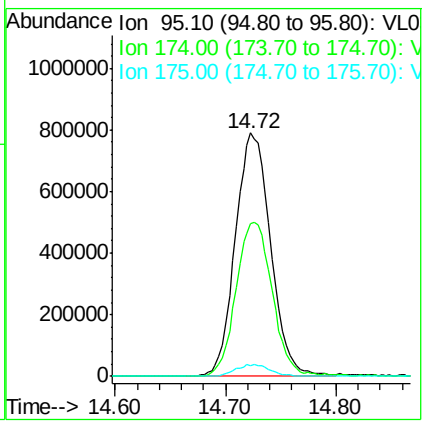


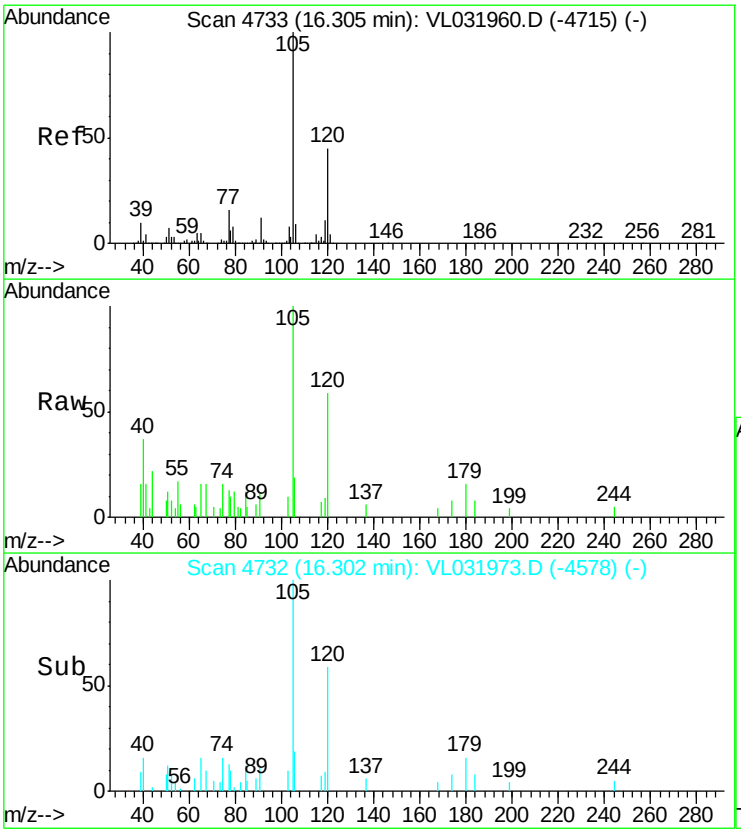
#68
1-Bromo-4-Fluorobenzene
Concen: 10.50 ppbv
RT: 14.72 min Scan# 4241
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 95 Resp: 1755801

Ion	Ratio	Lower	Upper
95	100		
174	65.2	53.0	79.6
175	4.8	3.9	5.9

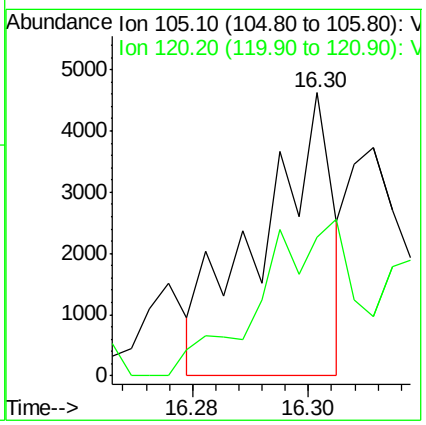


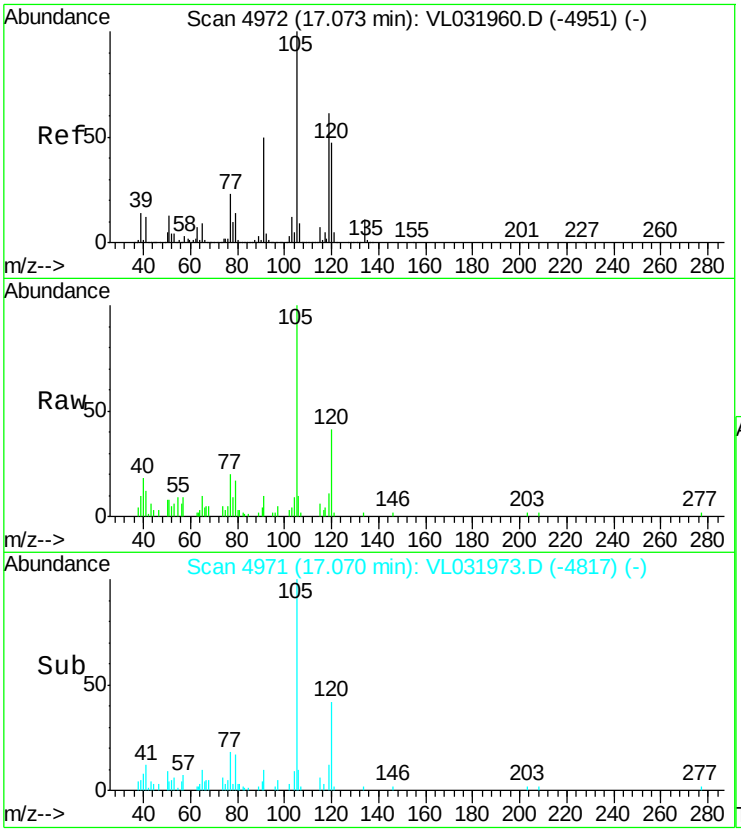


#73
1,3,5-Trimethylbenzene
Concen: 0.02 ppbv
RT: 16.30 min Scan# 4732
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:105 Resp: 3974

Ion	Ratio	Lower	Upper
105	100		
120	50.1	36.0	54.0



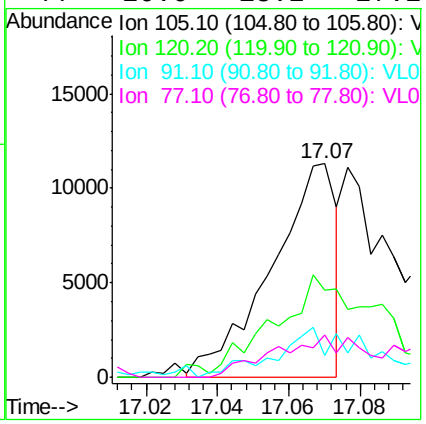


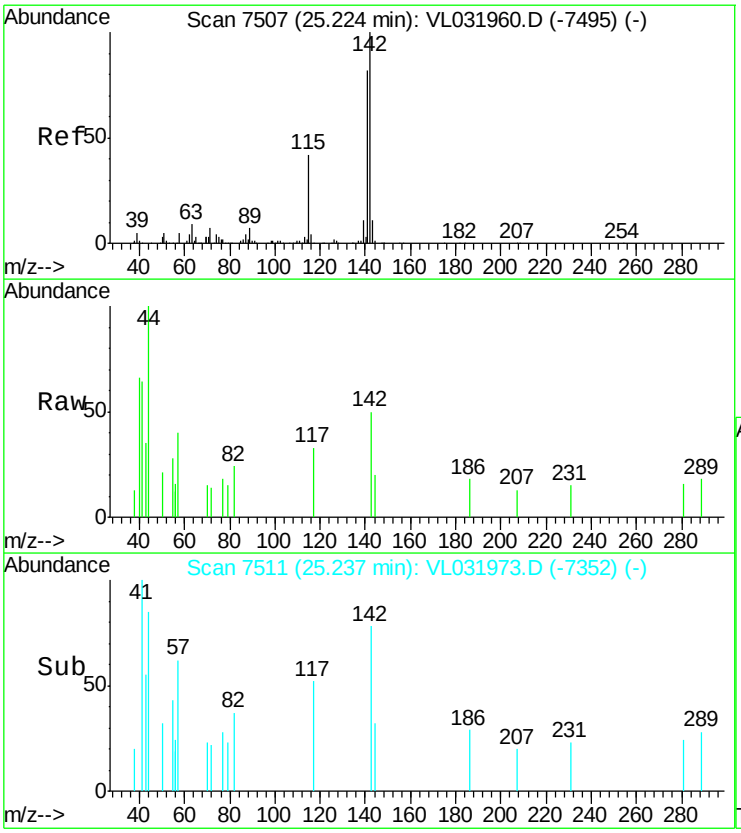
#74
1,2,4-Trimethylbenzene
Concen: 0.05 ppbv
RT: 17.07 min Scan# 4971
Delta R.T. -0.00 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 14226

Ion	Ratio	Lower	Upper
105	100		
120	37.3	37.8	56.6#
91	5.0	40.5	60.7#
77	20.0	18.2	27.2





#80
Naphthalene,2-methyl-
Concen: 0.02 ppbv
RT: 25.24 min Scan# 7511
Delta R.T. 0.01 min
Lab File: VL031973.D
Acq: 3 May 2018 22:00

Tgt Ion:142 Resp: 746

Ion	Ratio	Lower	Upper
142	100		
141	80.0	67.9	101.9
115	9.7	33.8	50.8#