Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037778.D
Acq On : 5 Oct 2021 17:57
Operator : SY/AP
Sample : M4012-06DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Quant Time: Oct 06 04:47:23 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1287313	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3707741	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3180278	10.00	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2157585	9.70	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.04	85	39908	0.194	ppbv #	88
3) Chlorodifluoromethane	2.98	51	57469	0.232	ppbv	94
4) Chloromethane	3.13	50	28977	0.320	ppbv	98
9) Propene	3.01	41	52031	0.572	ppbv	98
11) Trichlorofluoromethane	3.93	101	23098	0.126	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4938	0.036	ppbv #	32
13) Ethanol	3.59	45	237732	31.941	ppbv	93
15) Acetone	3.83	43	1576049	13.638	ppbv	98
16) 1,3-Butadiene	3.30	39	61476	0.731	ppbv #	25
17) tert-Butyl alcohol	4.28	59	21066	0.177	ppbv #	71
19) Isopropyl Alcohol	3.96	45	132534	1.843	ppbv #	70
20) Methylene Chloride	4.33	84	567417	9.718	ppbv	94
23) Vinyl Acetate	5.05	43	7371	0.043	ppbv #	20
25) Ethyl Acetate	5.67	43	206313	0.636	ppbv #	81
26) Hexane	5.67	57	249687	1.564	ppbv #	44
34) 2-Butanone	5.23	43	210078	1.403	ppbv #	89
35) Carbon Tetrachloride	6.99	117	8394	0.040	ppbv #	47
36) Benzene	6.87	78	60419	0.191	ppbv #	93
39) 1,2-Dichloropropane	7.16	63	886042	7.438	ppbv #	28
41) Tetrahydrofuran	6.04	42	5546	0.076	ppbv #	81
44) 2,2,4-Trimethylpentane	7.84	57	122396	0.230	ppbv #	84
52) Tetrachloroethene	11.20	164	42789	0.347	ppbv #	78
53) Toluene	9.78	91	194836	0.555	ppbv	100
58) Ethyl Benzene	12.68	91	90919	0.213	ppbv	92
59) m/p-Xylene	12.95	91	287329	0.784	ppbv #	30
60) o-Xylene	13.66	91	106482	0.303	ppbv	72
66) Benzyl Chloride	16.95	91	550	0.026	ppbv #	81
72) 4-Ethyltoluene	15.80	105	8738	0.022	ppbv #	44
74) 1,2,4-Trimethylbenzene	16.73	105	23704	0.062	ppbv #	65

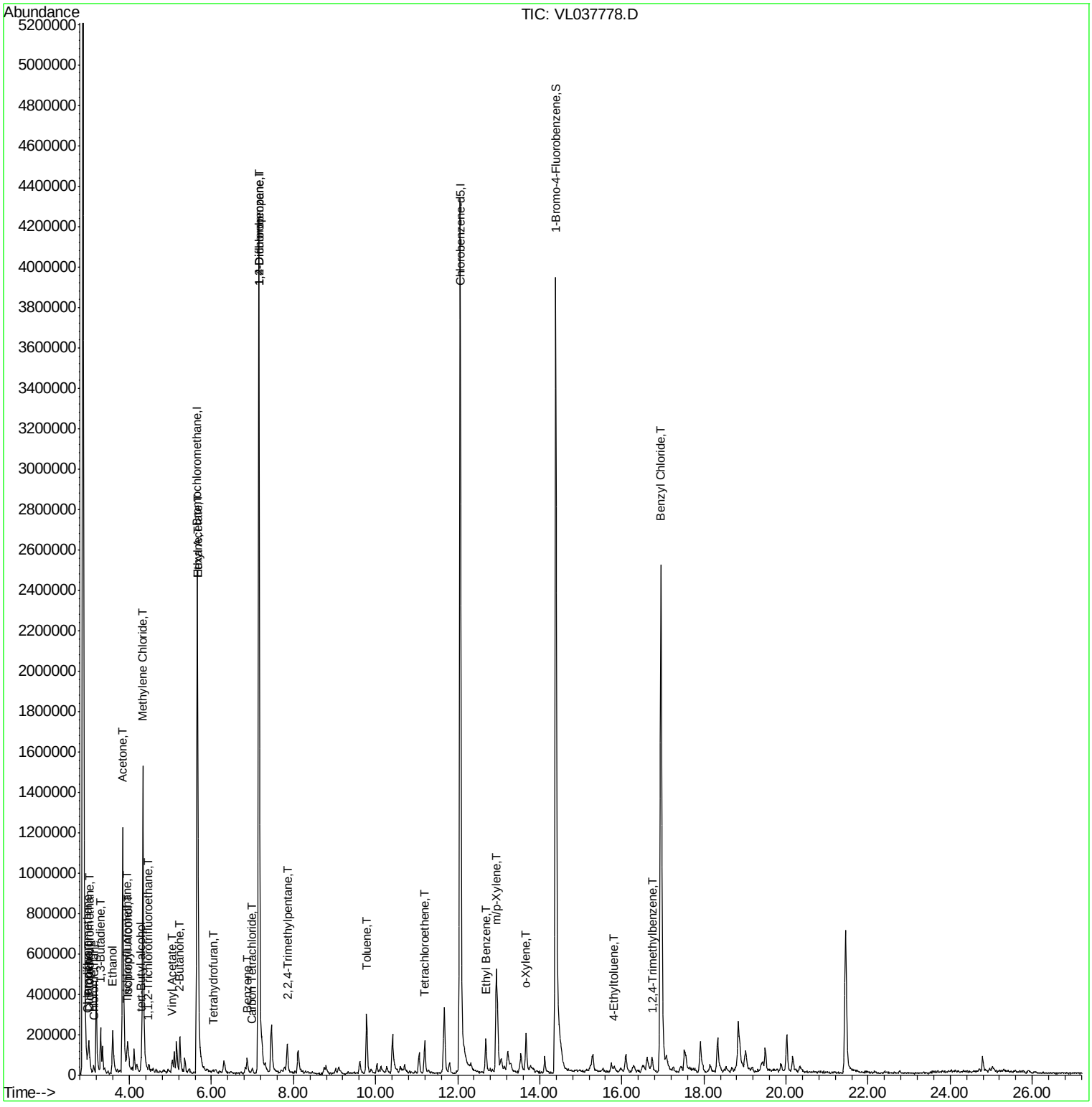
(#) = qualifier out of range (m) = manual integration (+) = signals summed

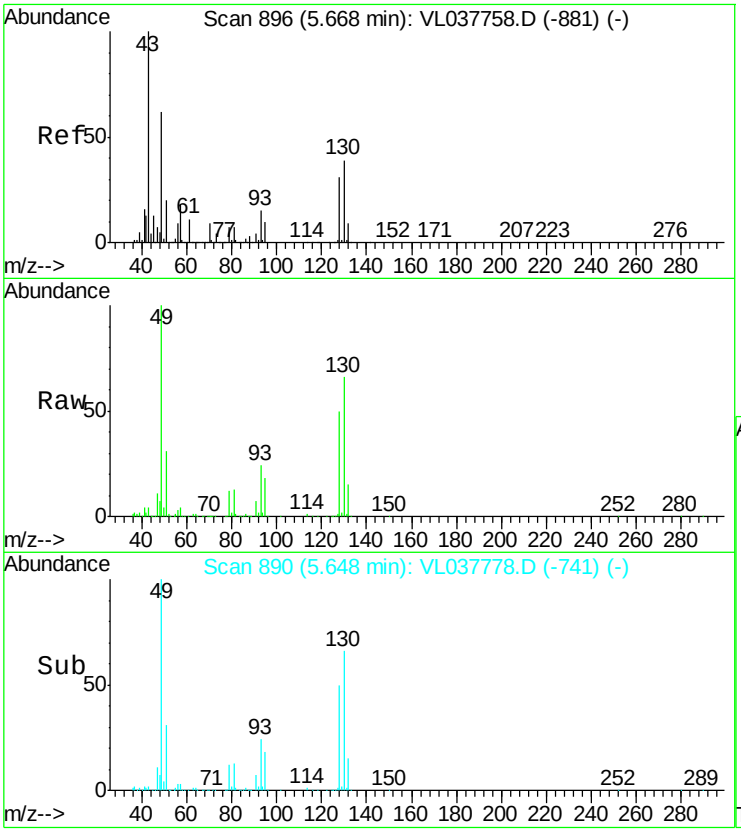
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037778.D
Acq On : 5 Oct 2021 17:57
Operator : SY/AP
Sample : M4012-06DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Quant Time: Oct 06 04:47:23 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration



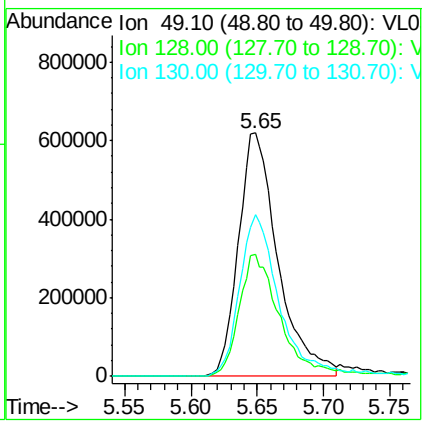


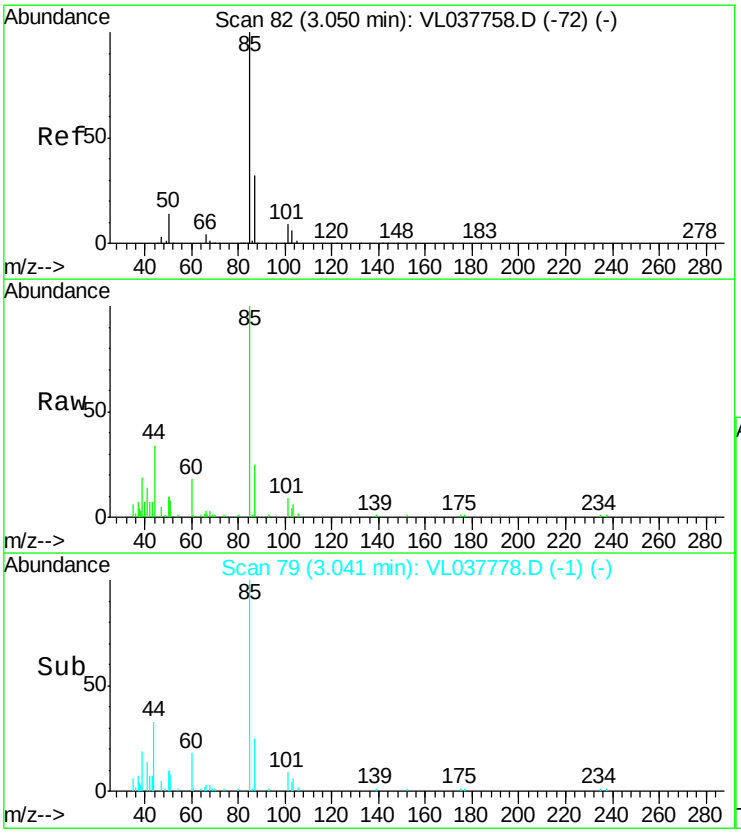
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 49 Resp: 1287313

Ion	Ratio	Lower	Upper
49	100		
128	53.4	27.1	81.3
130	68.5	33.2	99.6

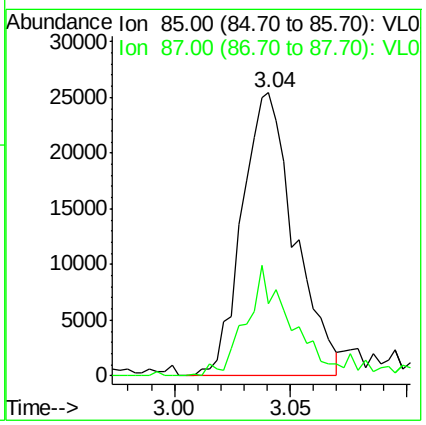


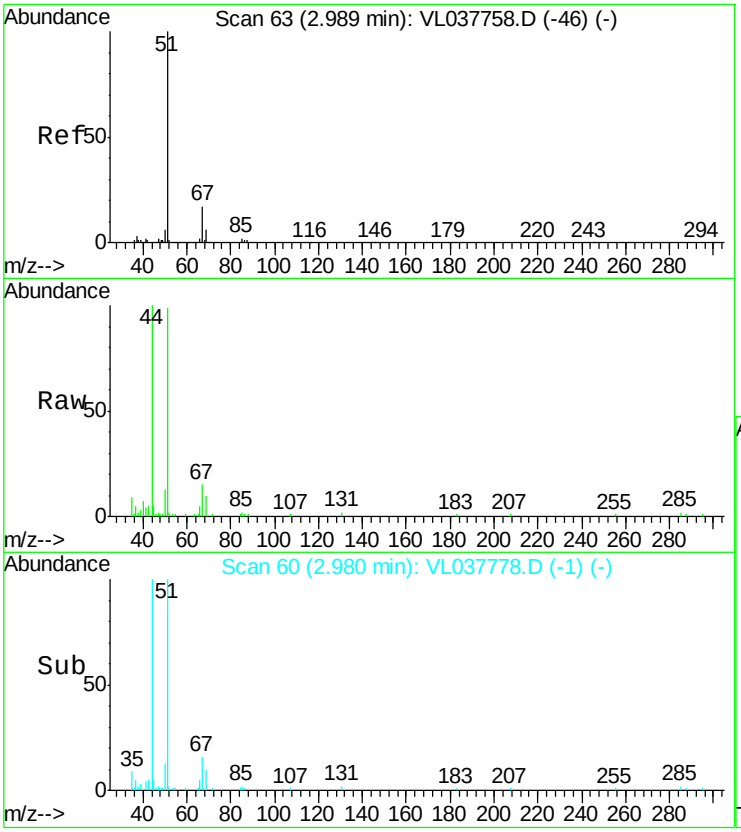


#2
Dichlorodifluoromethane
Concen: 0.194 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 85 Resp: 39908

Ion	Ratio	Lower	Upper
85	100		
87	25.4	25.7	38.5#



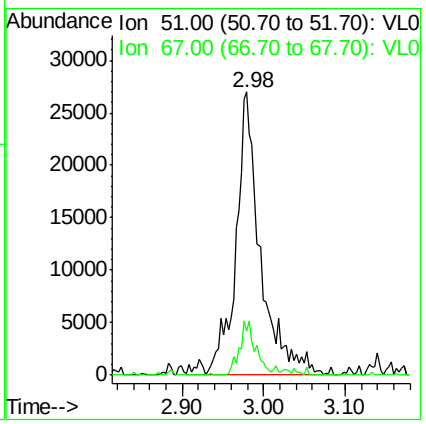


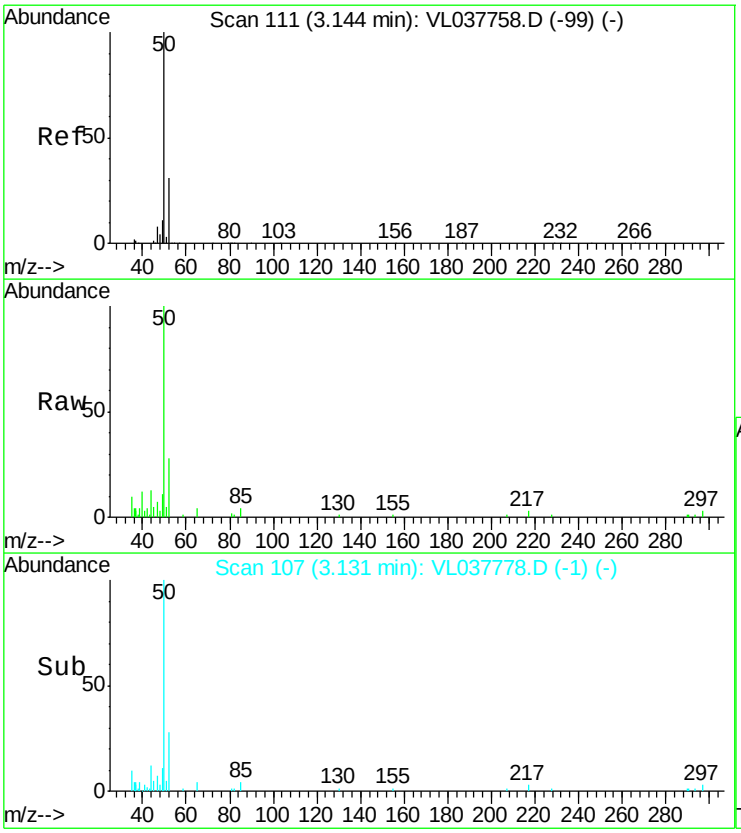
#3
Chlorodifluoromethane
Concen: 0.232 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 51 Resp: 57469

Ion	Ratio	Lower	Upper
51	100		
67	14.1	13.5	20.3

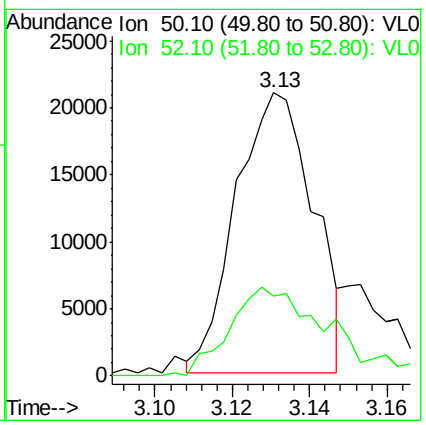


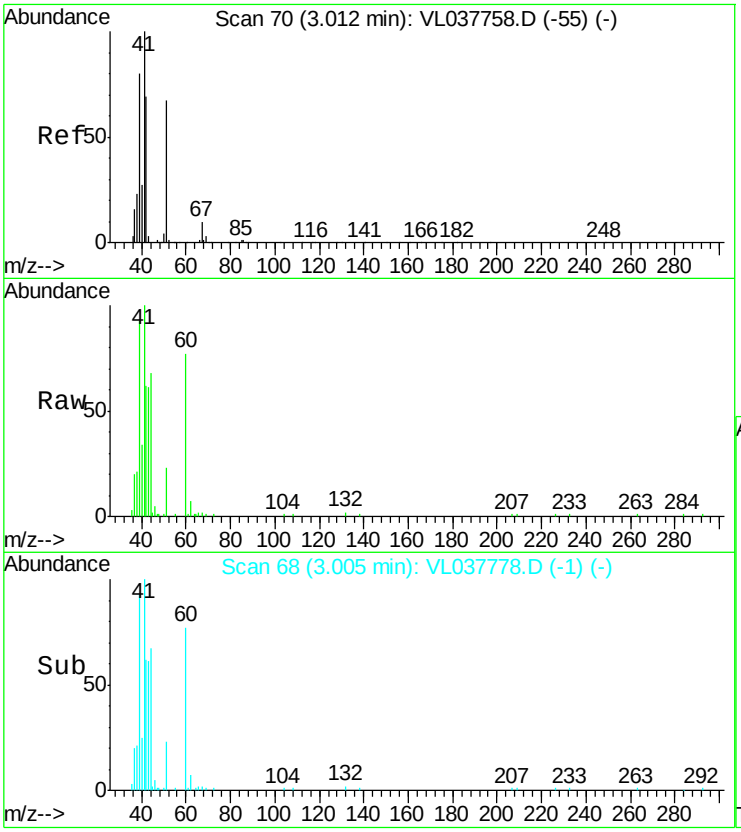


#4
Chloromethane
Concen: 0.320 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 50 Resp: 28977

Ion	Ratio	Lower	Upper
50	100		
52	29.5	24.4	36.6



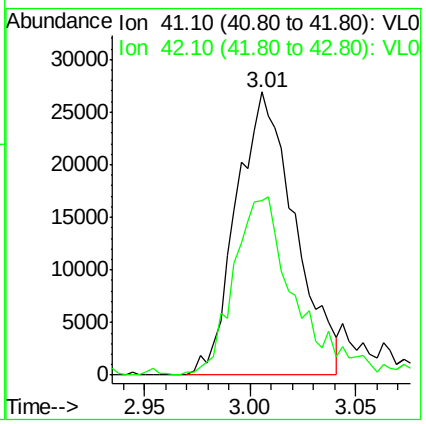


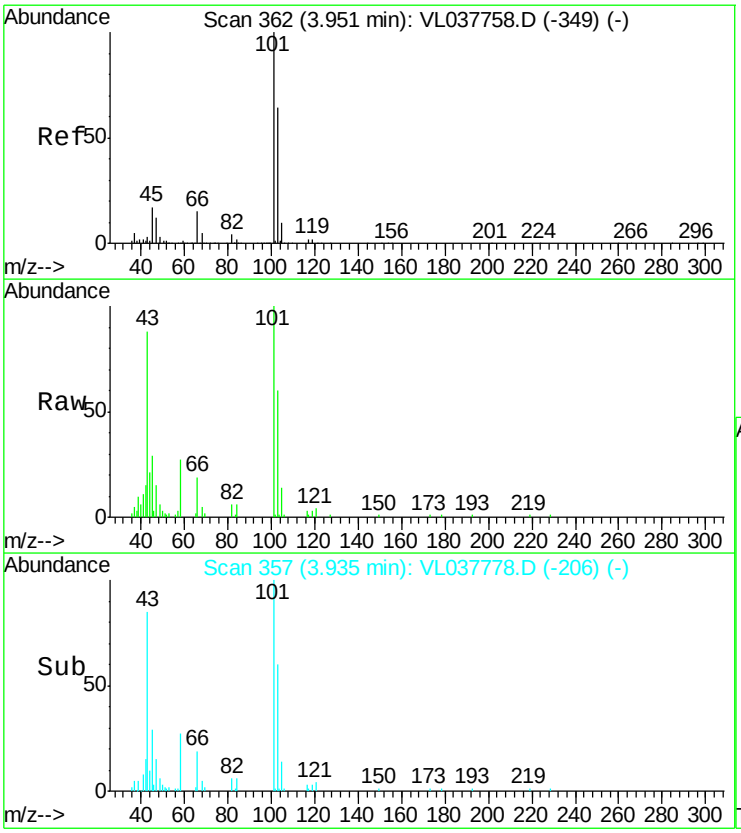
#9
Propene
Concen: 0.572 ppbv
RT: 3.01 min Scan# 68
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 41 Resp: 52031

Ion	Ratio	Lower	Upper
41	100		
42	66.3	54.2	81.2

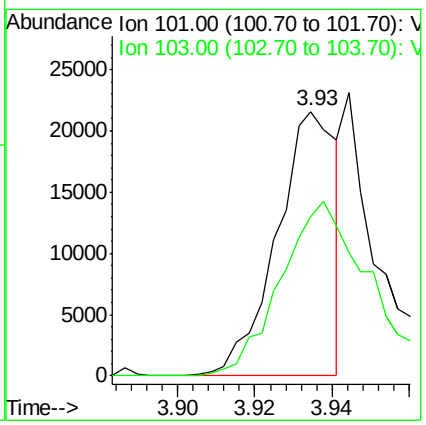


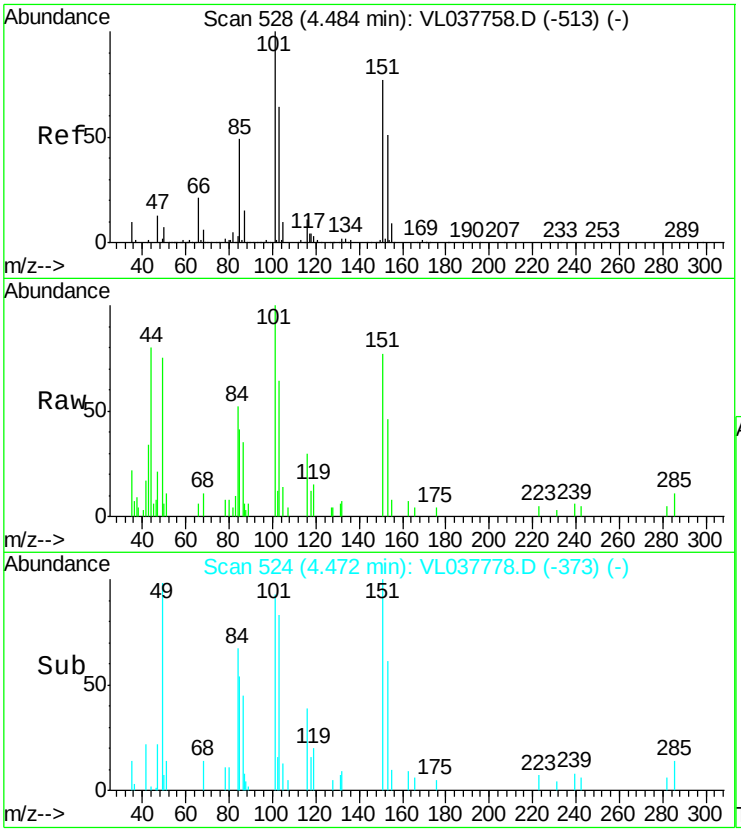


#11
Trichlorofluoromethane
Concen: 0.126 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion:101 Resp: 23098

Ion	Ratio	Lower	Upper
101	100		
103	60.5	51.5	77.3



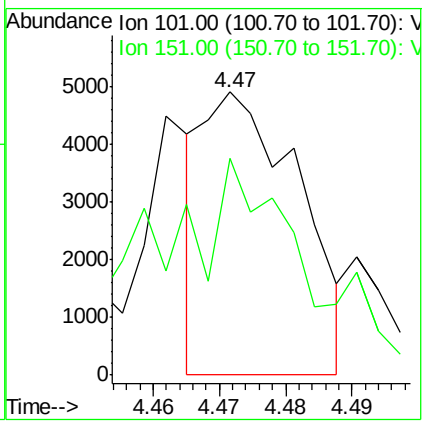


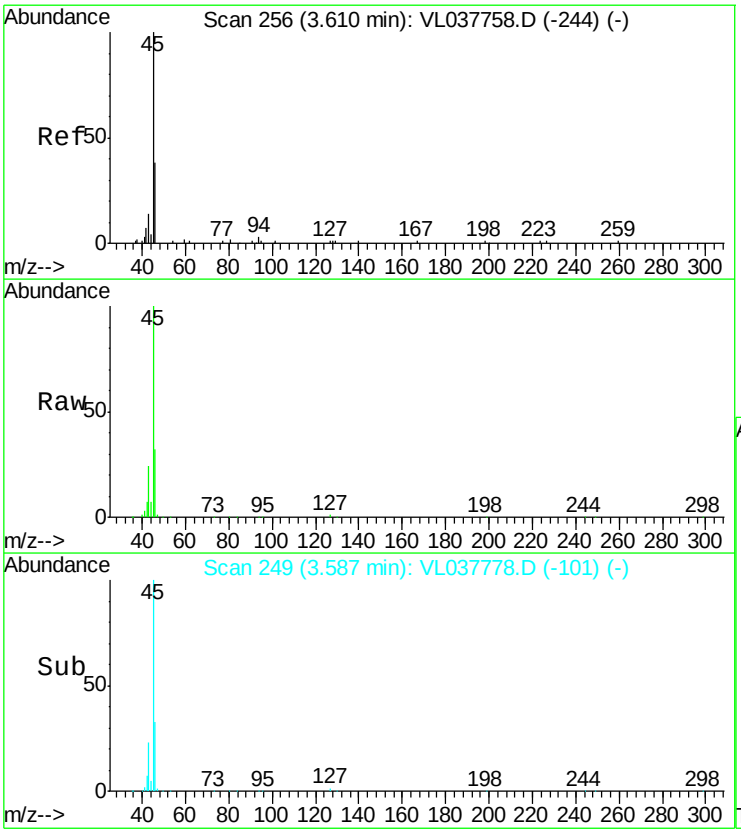
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.036 ppbv
RT: 4.47 min Scan# 524
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion:101 Resp: 4938

Ion	Ratio	Lower	Upper
101	100		
151	138.4	62.9	94.3#

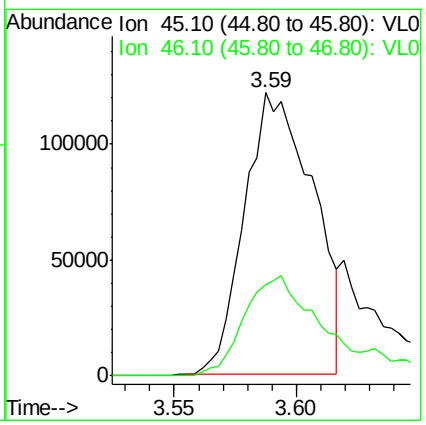


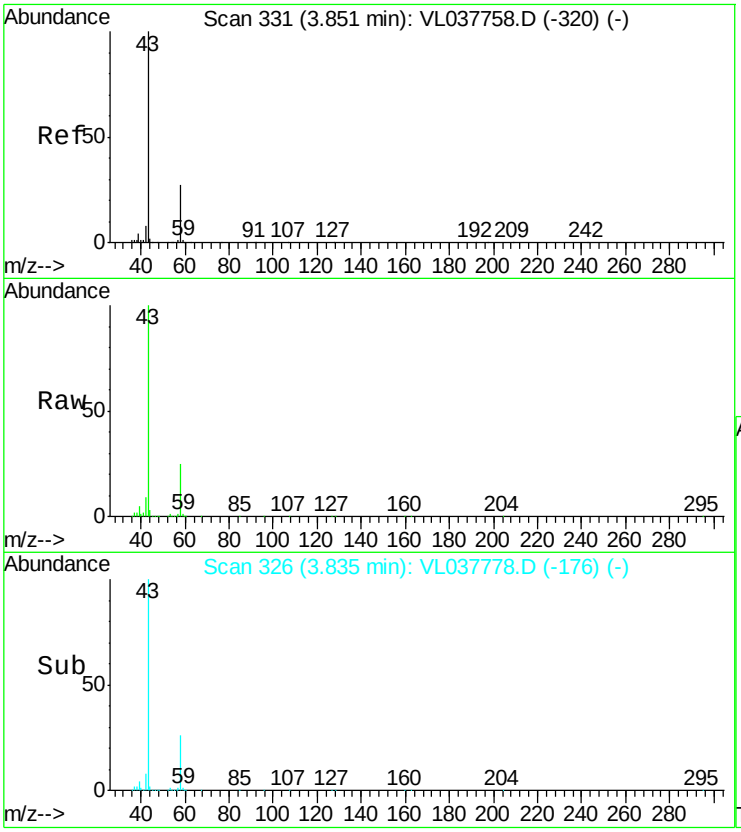


#13
Ethanol
Concen: 31.941 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 45 Resp: 237732

Ion	Ratio	Lower	Upper
45	100		
46	45.5	20.2	81.0



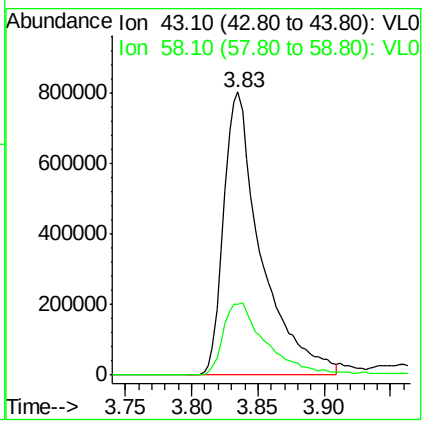


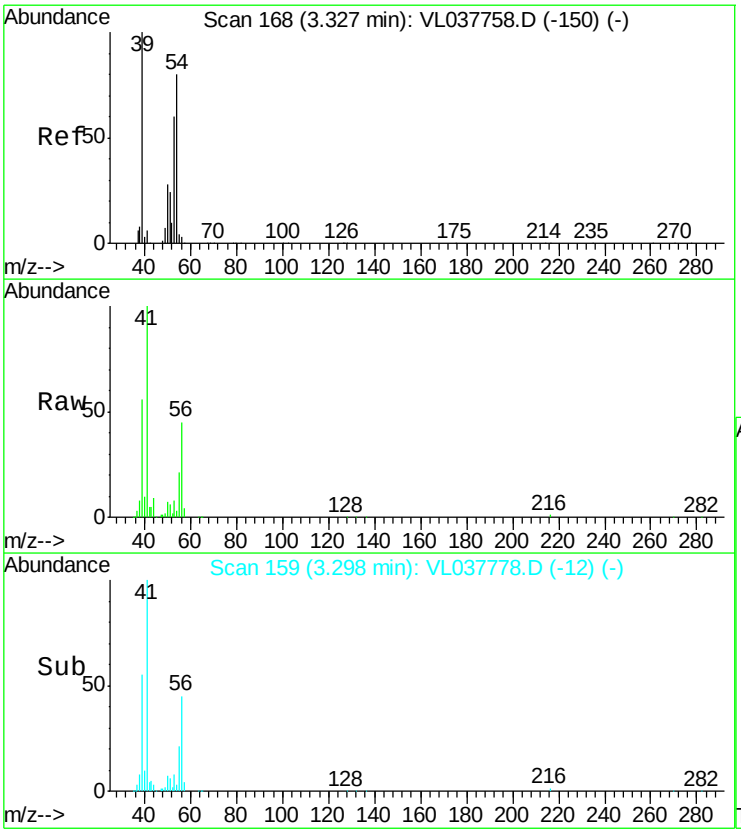
#15
Acetone
Concen: 13.638 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 43 Resp: 1576049

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.0	34.6

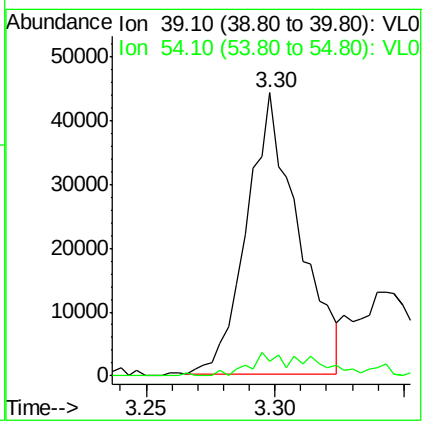


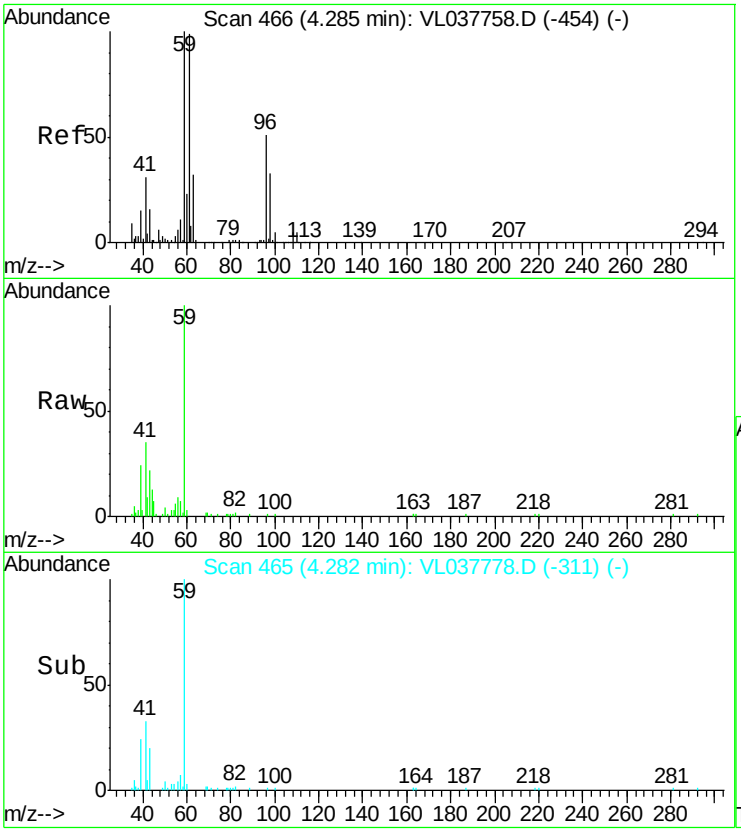


#16
1,3-Butadiene
Concen: 0.731 ppbv
RT: 3.30 min Scan# 159
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 39 Resp: 61476

Ion	Ratio	Lower	Upper
39	100		
54	12.0	61.7	92.5#



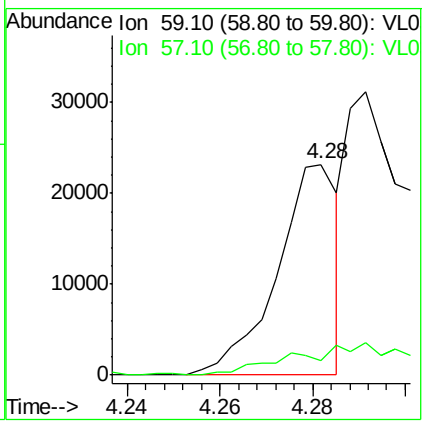


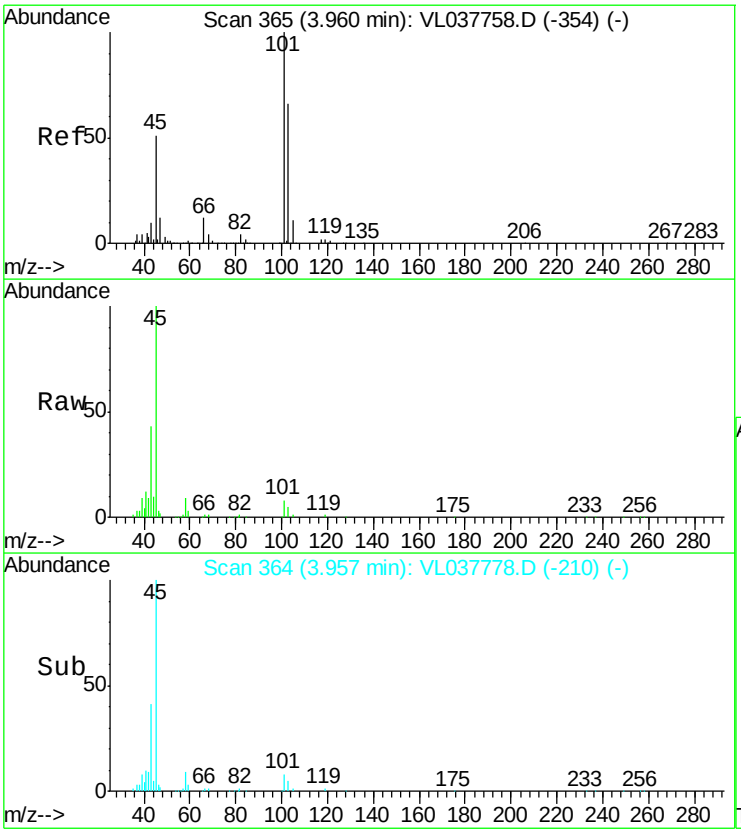
#17
tert-Butyl alcohol
Concen: 0.177 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.00 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 59 Resp: 21066

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

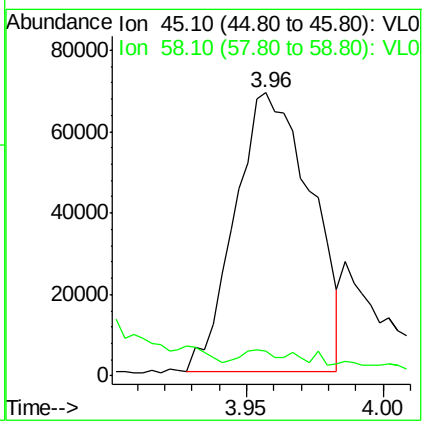


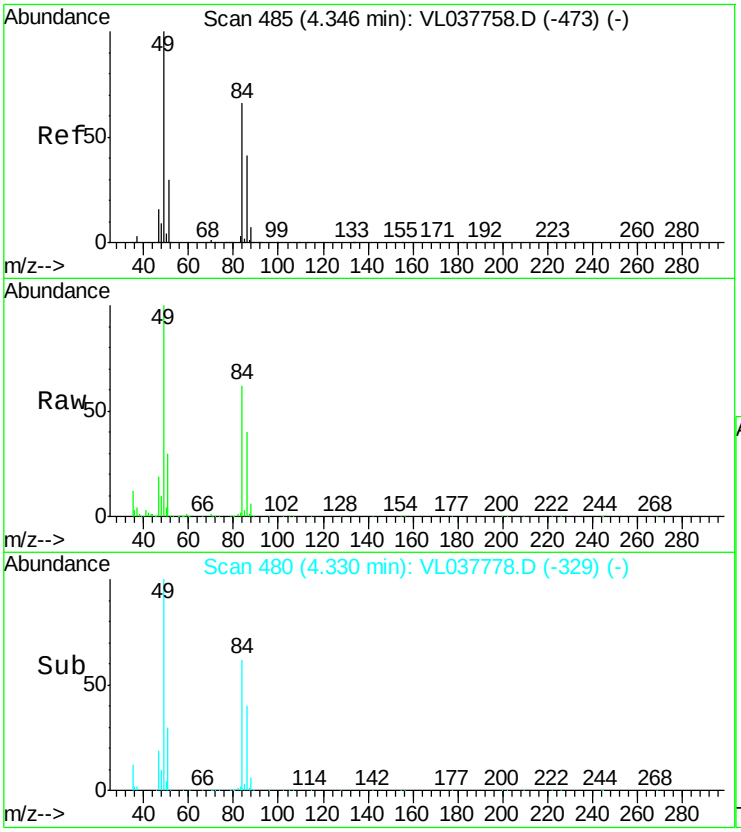


#19
Isopropyl Alcohol
Concen: 1.843 ppbv
RT: 3.96 min Scan# 364
Delta R.T. -0.00 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 45 Resp: 132534

Ion	Ratio	Lower	Upper
45	100		
58	13.3	1.1	1.7#



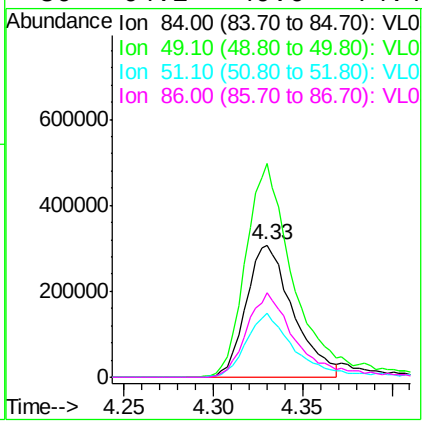


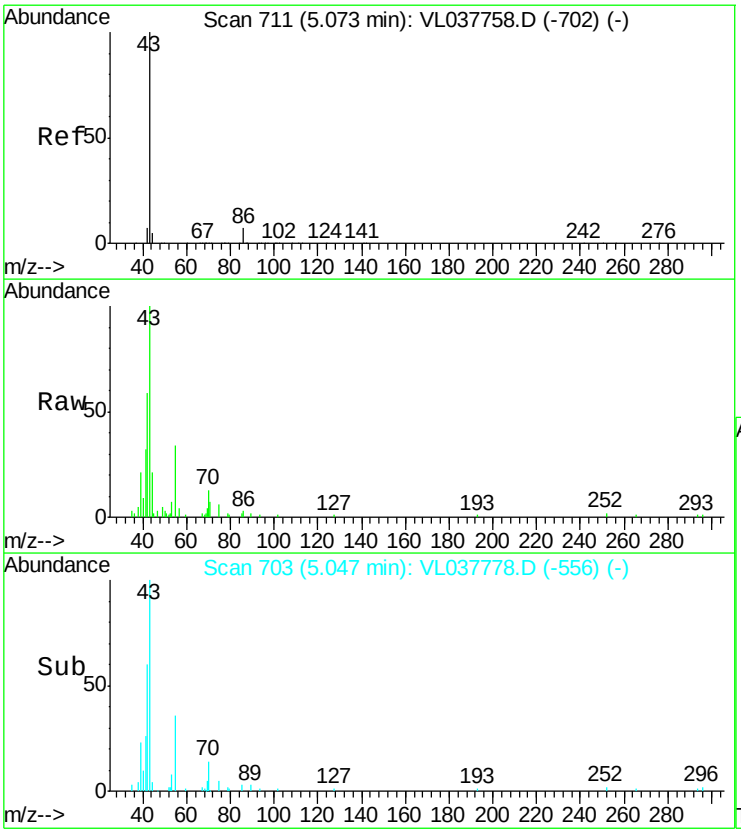
#20
Methylene Chloride
Concen: 9.718 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 84 Resp: 567417

Ion	Ratio	Lower	Upper
84	100		
49	161.2	120.7	181.1
51	48.4	36.2	54.4
86	64.2	49.6	74.4

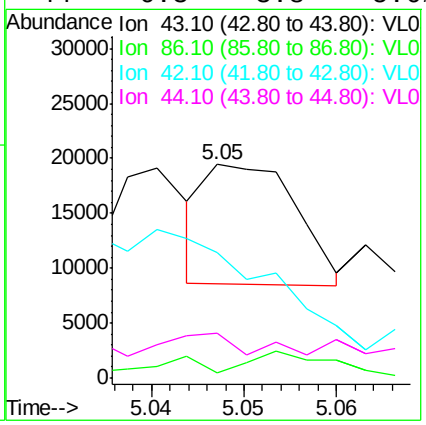


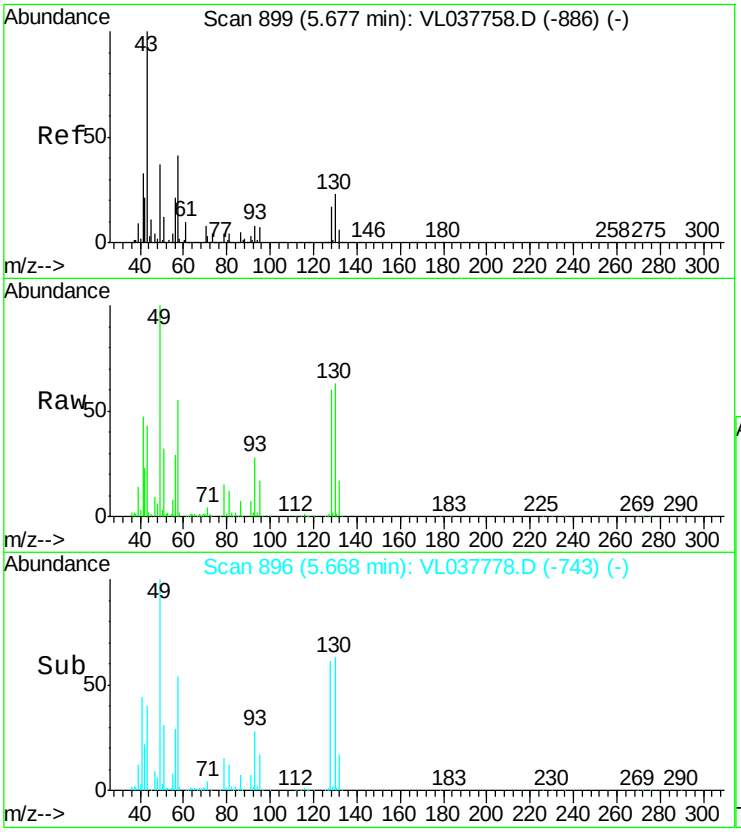


#23
Vinyl Acetate
Concen: 0.043 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 43 Resp: 7371

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.4#
42	67.0	7.4	11.0#
44	6.3	3.8	5.6#



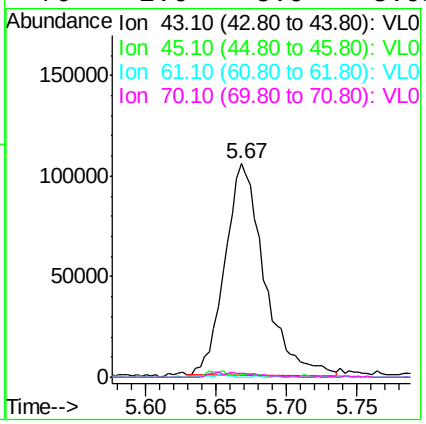


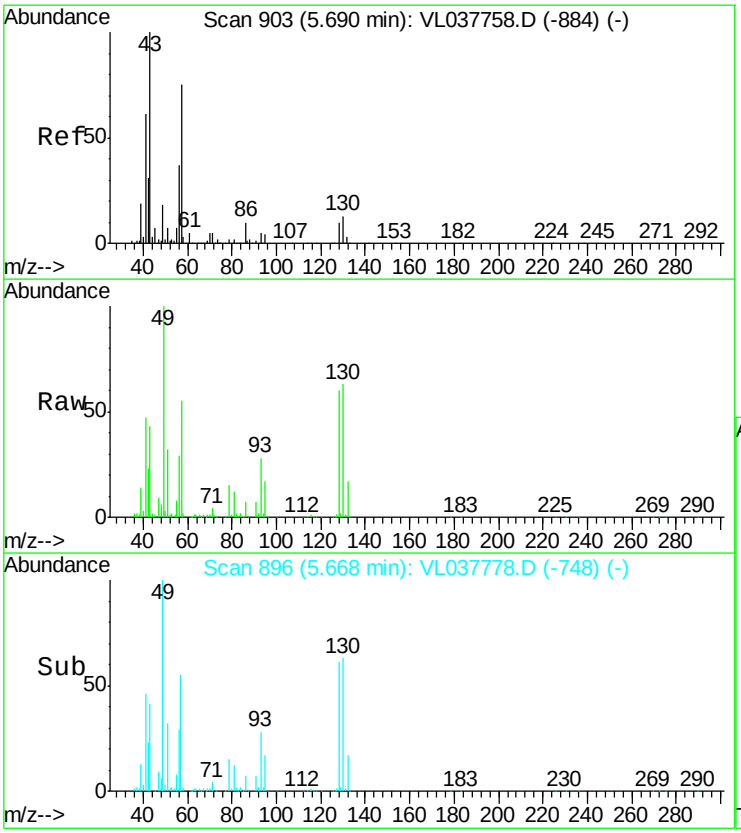
#25
Ethyl Acetate
Concen: 0.636 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 43 Resp: 206313

Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.1	12.1#
61	0.8	7.5	11.3#
70	2.6	5.9	8.9#

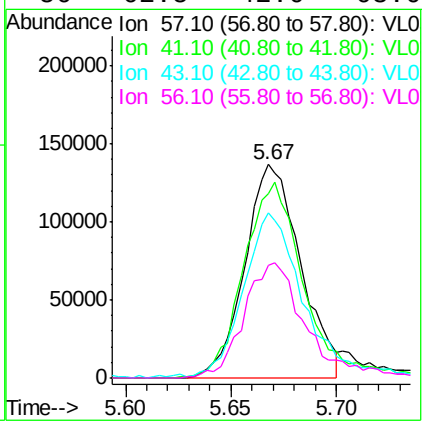


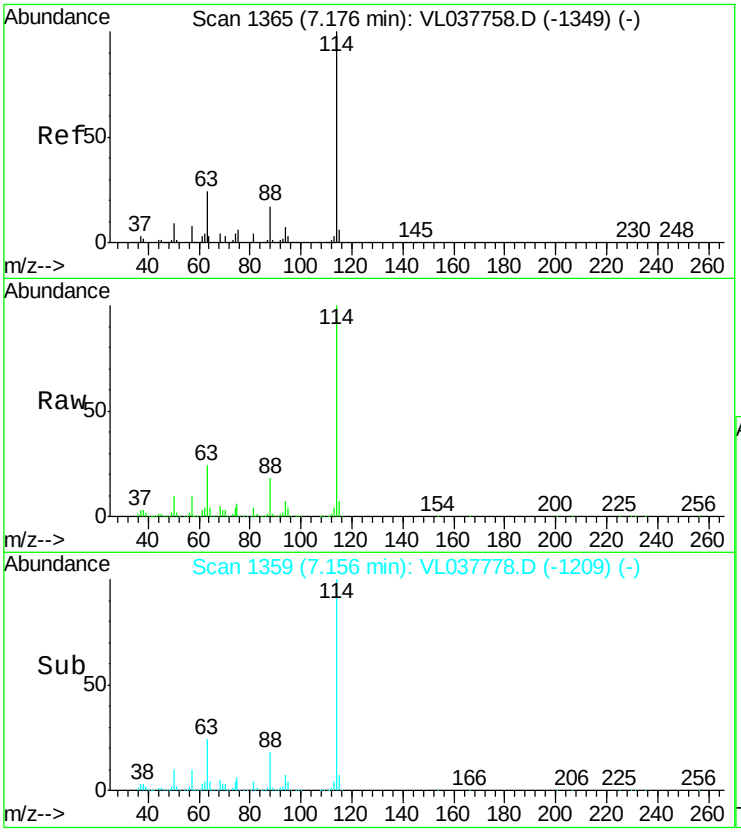


#26
Hexane
Concen: 1.564 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 57 Resp: 249687

Ion	Ratio	Lower	Upper
57	100		
41	102.7	69.6	104.4
43	84.0	171.4	257.0#
56	62.5	42.0	63.0



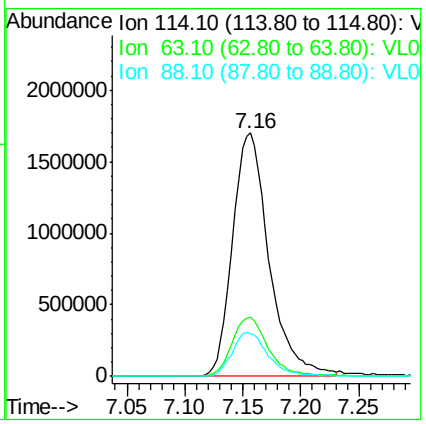


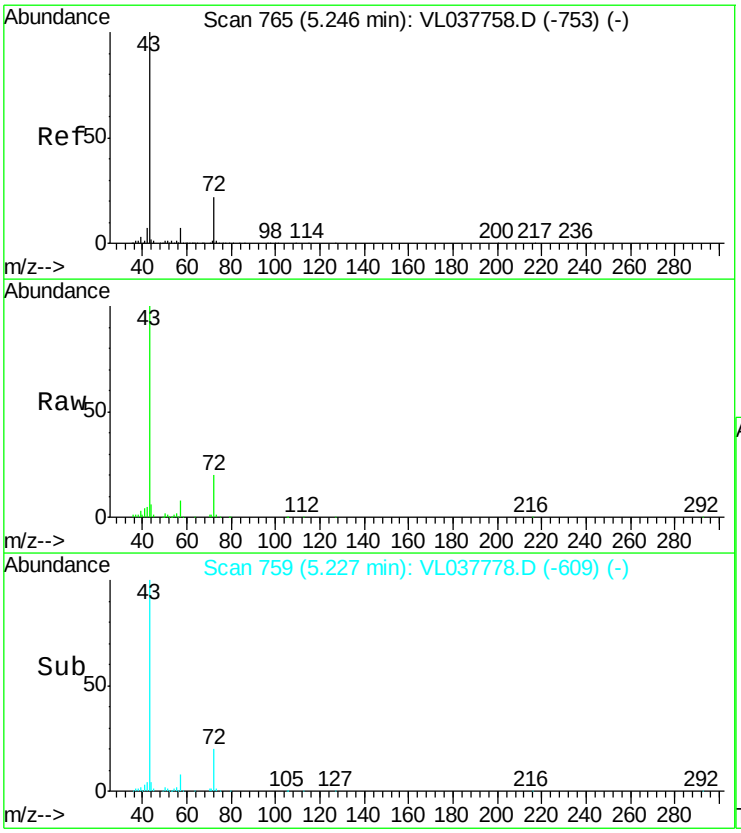
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion:114 Resp: 3707741

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.4	29.2
88	18.3	14.4	21.6

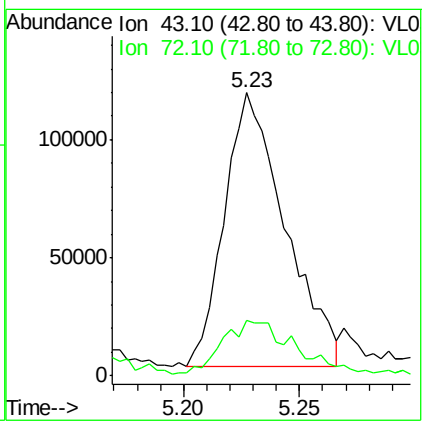


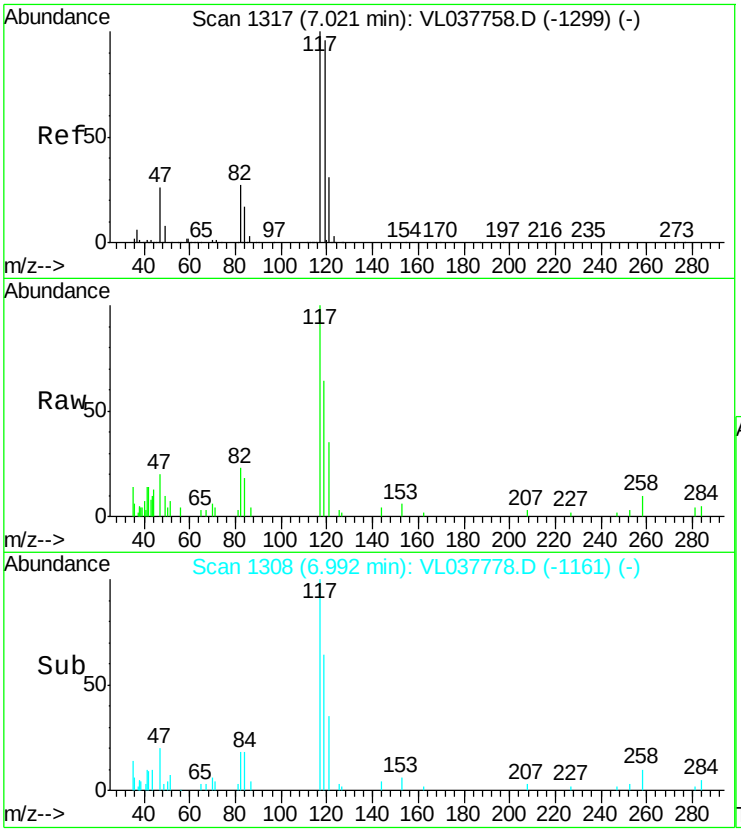


#34
2-Butanone
Concen: 1.403 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 43 Resp: 210078

Ion	Ratio	Lower	Upper
43	100		
72	28.2	18.2	27.2#



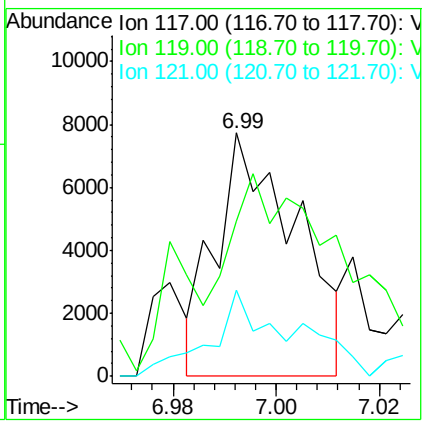


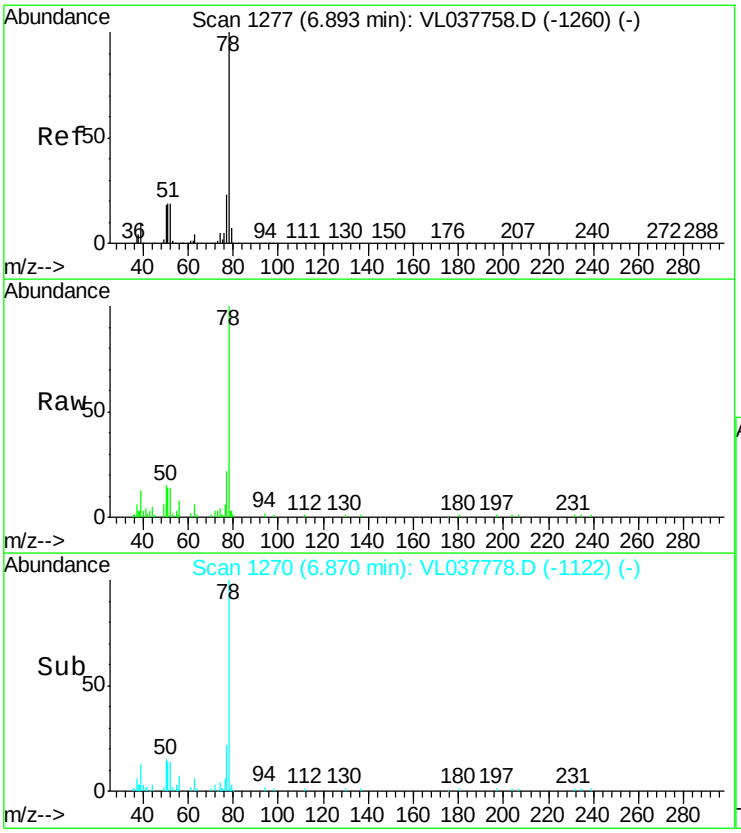
#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 6.99 min Scan# 1308
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion:117 Resp: 8394

Ion	Ratio	Lower	Upper
117	100		
119	28.9	76.5	114.7#
121	33.8	24.9	37.3

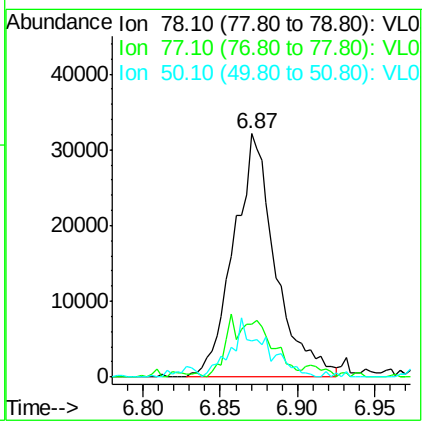


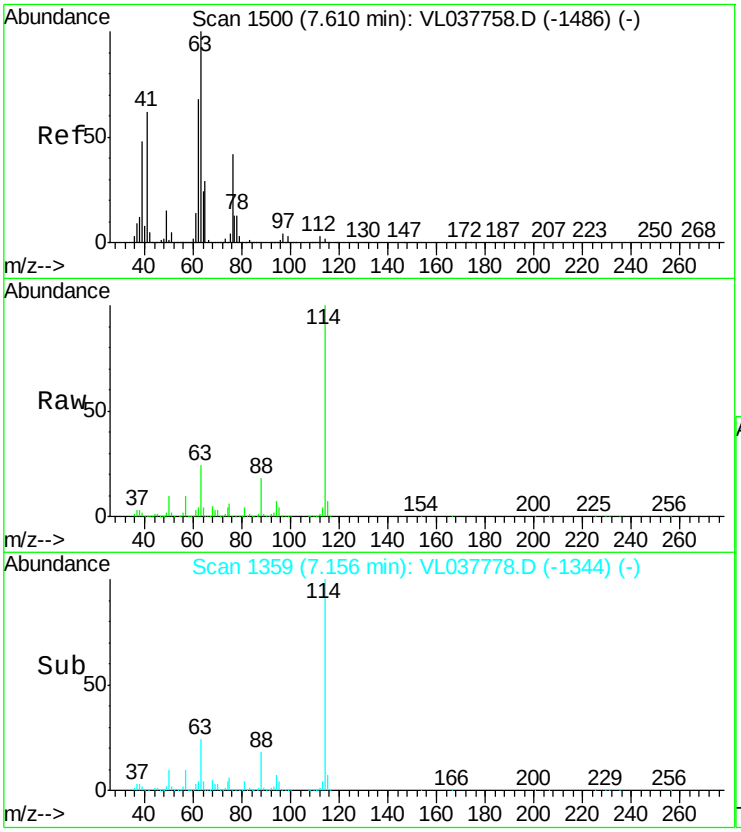


#36
Benzene
Concen: 0.191 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 78 Resp: 60419

Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.8	28.2
50	13.1	14.7	22.1#



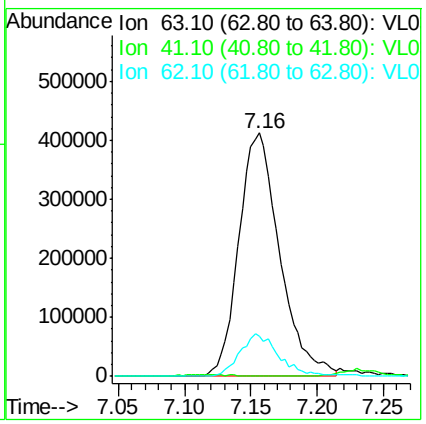


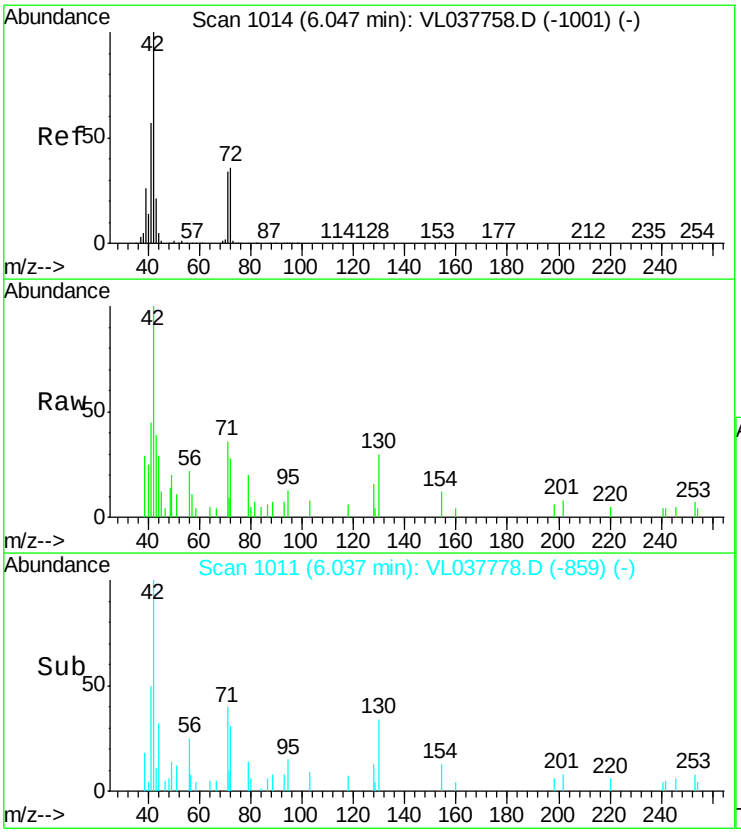
#39
1,2-Dichloropropane
Concen: 7.438 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.45 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 63 Resp: 886042

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	16.3	54.6	82.0#

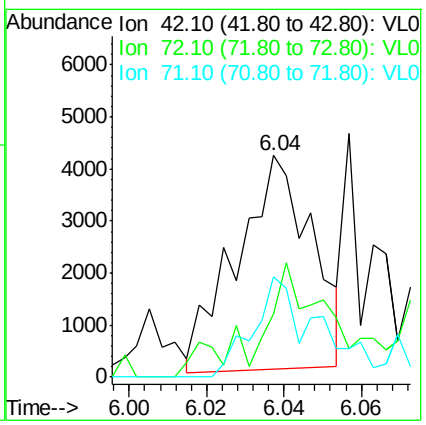


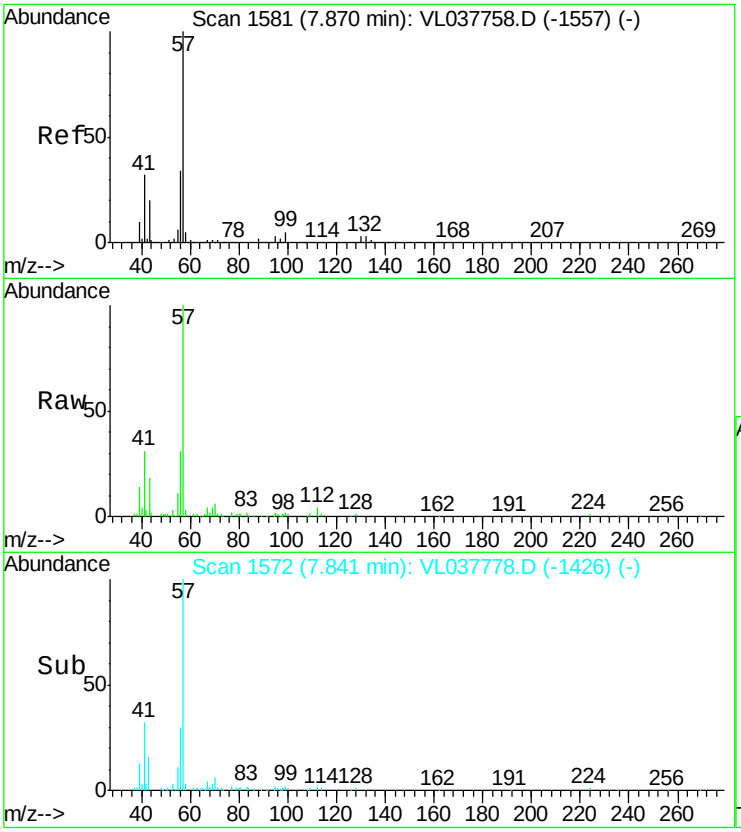


#41
Tetrahydrofuran
Concen: 0.076 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.01 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 42 Resp: 5546

Ion	Ratio	Lower	Upper
42	100		
72	51.9	31.9	47.9#
71	49.4	30.3	45.5#



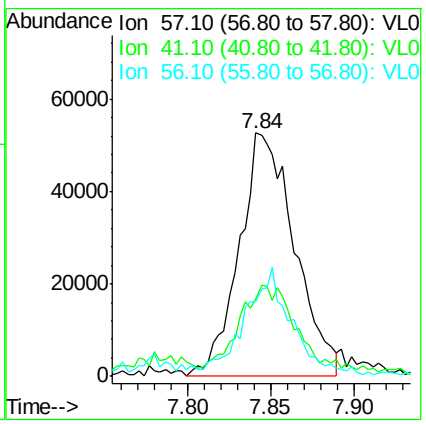


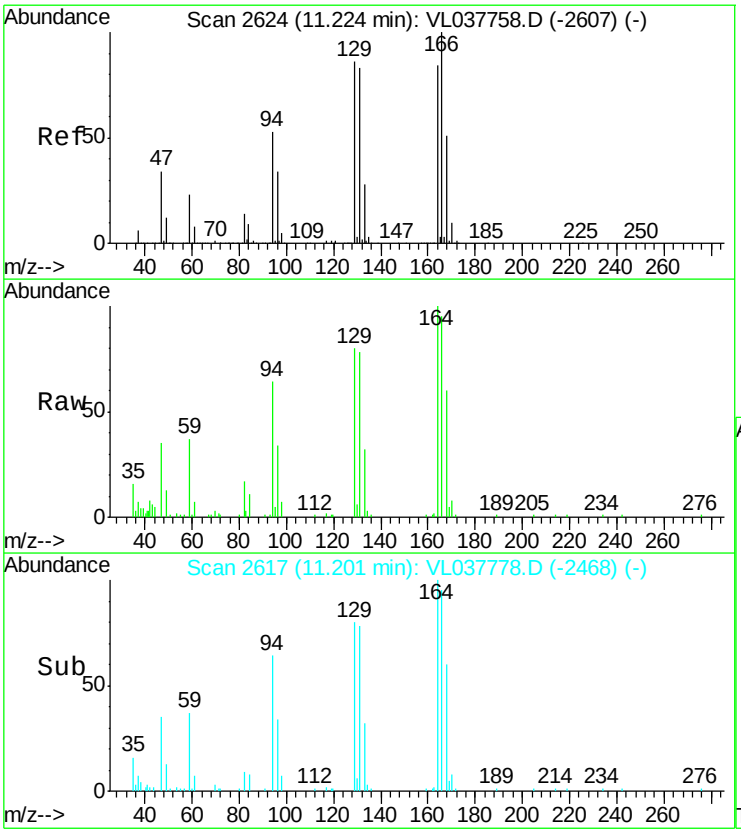
#44
2,2,4-Trimethylpentane
Concen: 0.230 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 57 Resp: 122396

Ion	Ratio	Lower	Upper
57	100		
41	41.3	25.6	38.4#
56	40.7	25.5	38.3#

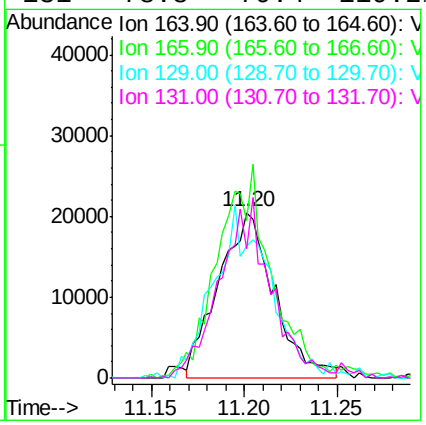


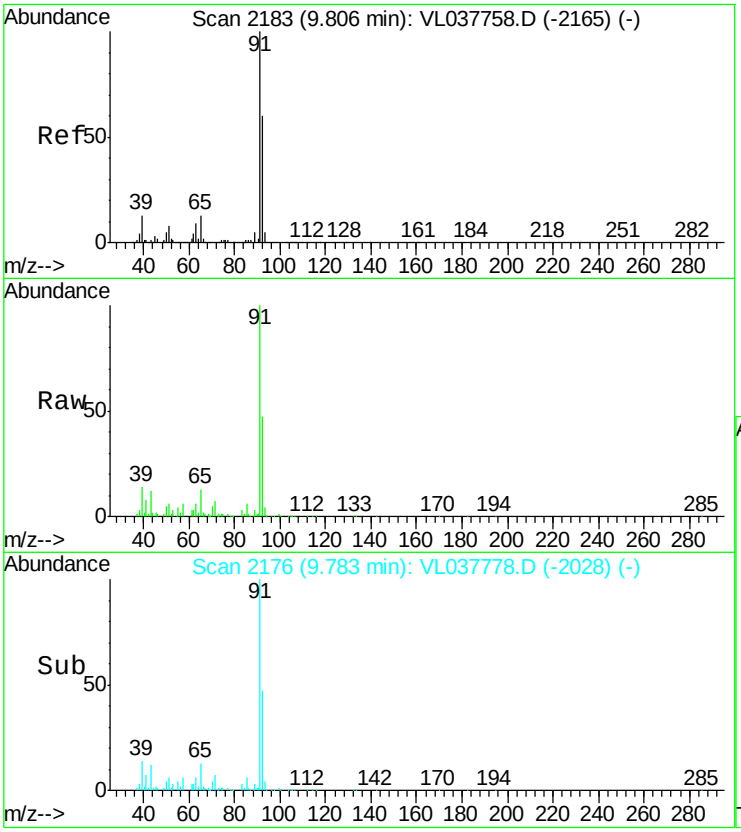


#52
Tetrachloroethene
Concen: 0.347 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion:164 Resp: 42789

Ion	Ratio	Lower	Upper
164	100		
166	92.0	95.4	143.2#
129	81.8	82.2	123.4#
131	78.8	79.4	119.2#



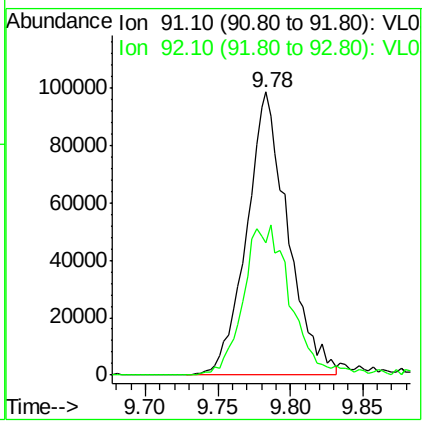


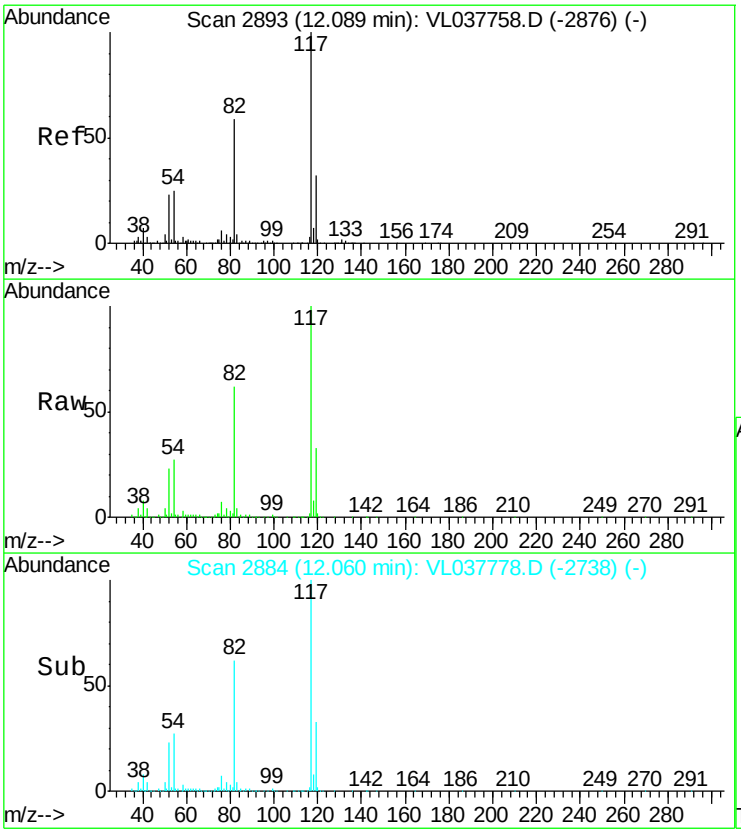
#53
Toluene
Concen: 0.555 ppbv
RT: 9.78 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 91 Resp: 194836

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.4	72.6

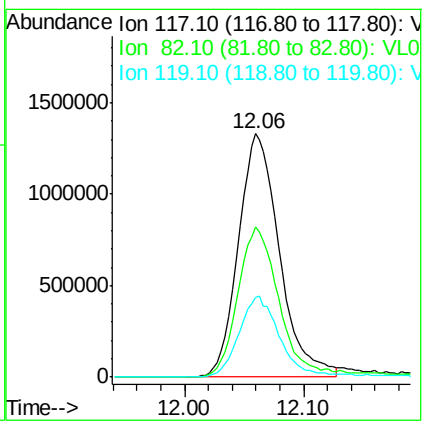


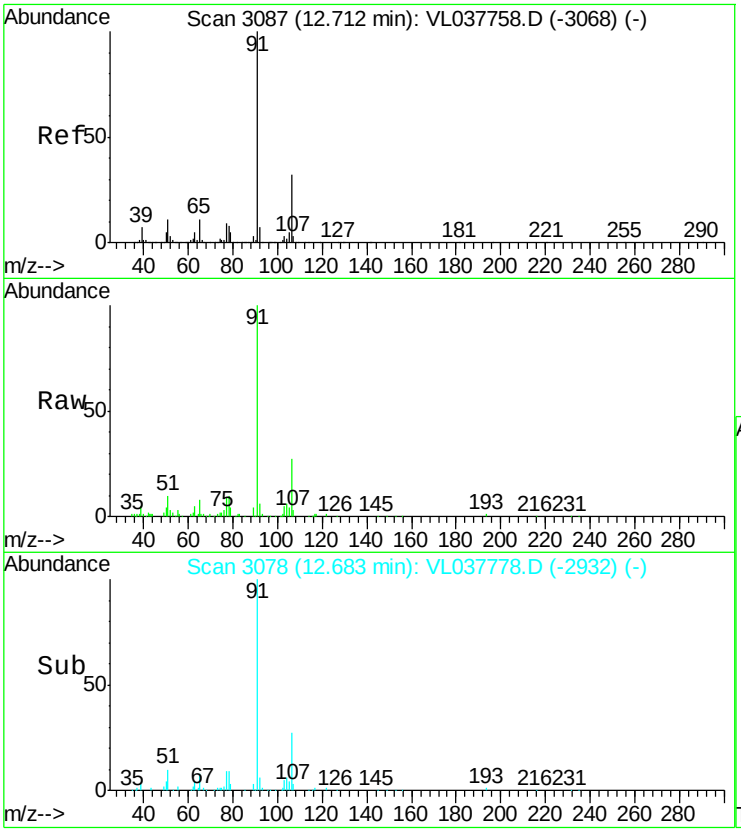


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion:117 Resp: 3180278

Ion	Ratio	Lower	Upper
117	100		
82	65.4	52.2	78.2
119	34.2	26.0	39.0



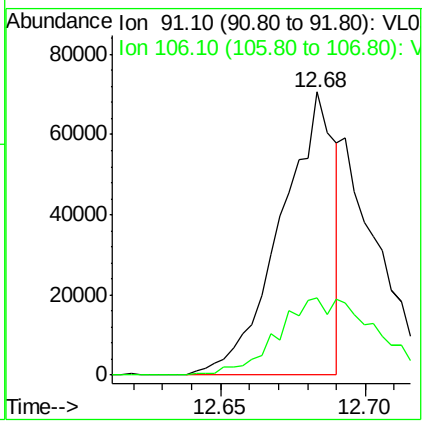


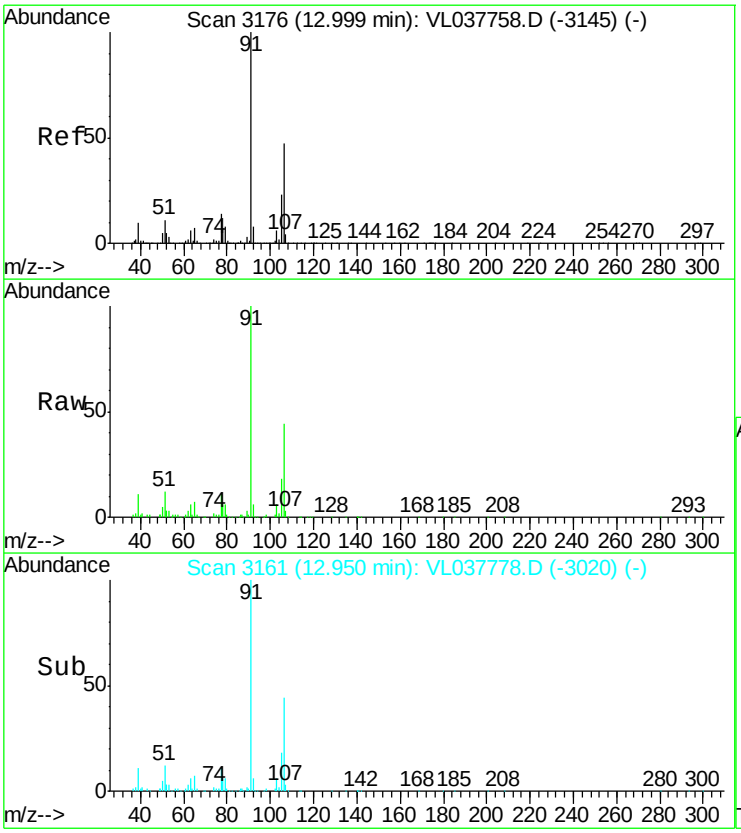
#58
Ethyl Benzene
Concen: 0.213 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument : MSVOA_L
ClientSampleId : C0P28DUP

Tgt Ion: 91 Resp: 90919

Ion	Ratio	Lower	Upper
91	100		
106	27.1	25.3	37.9

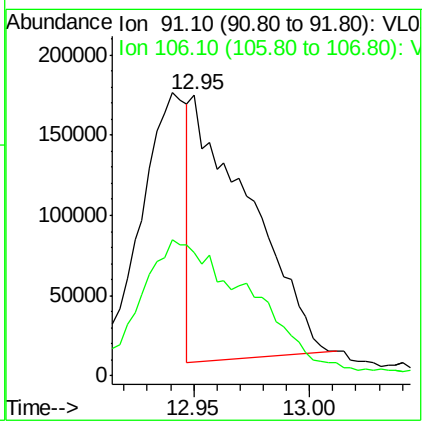


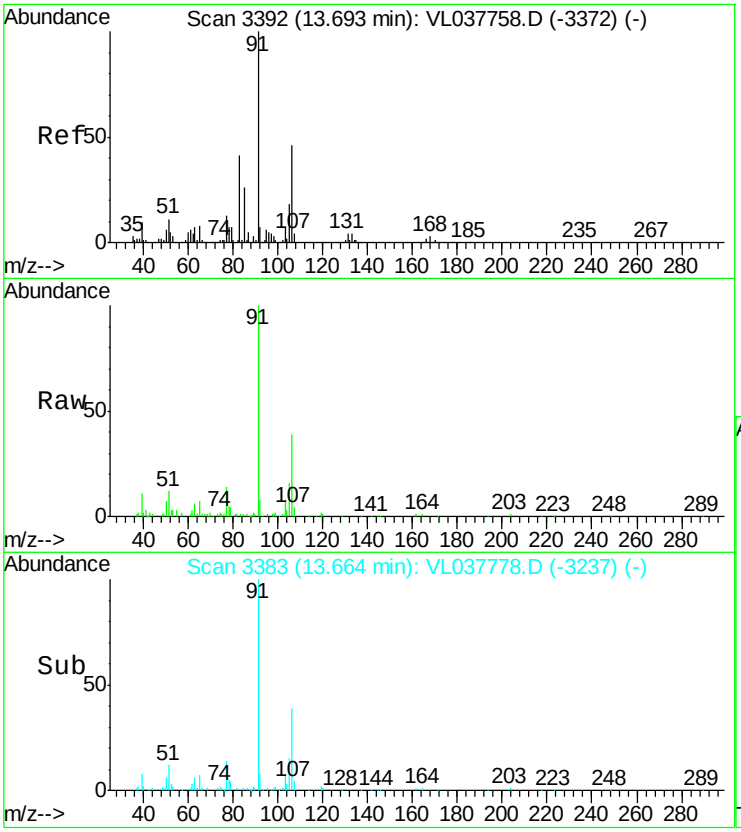


#59
m/p-Xylene
Concen: 0.784 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.05 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 91 Resp: 287329

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1#



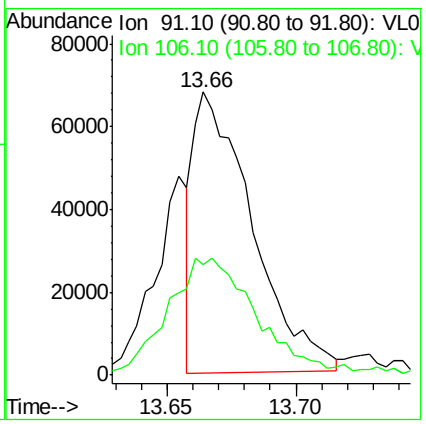


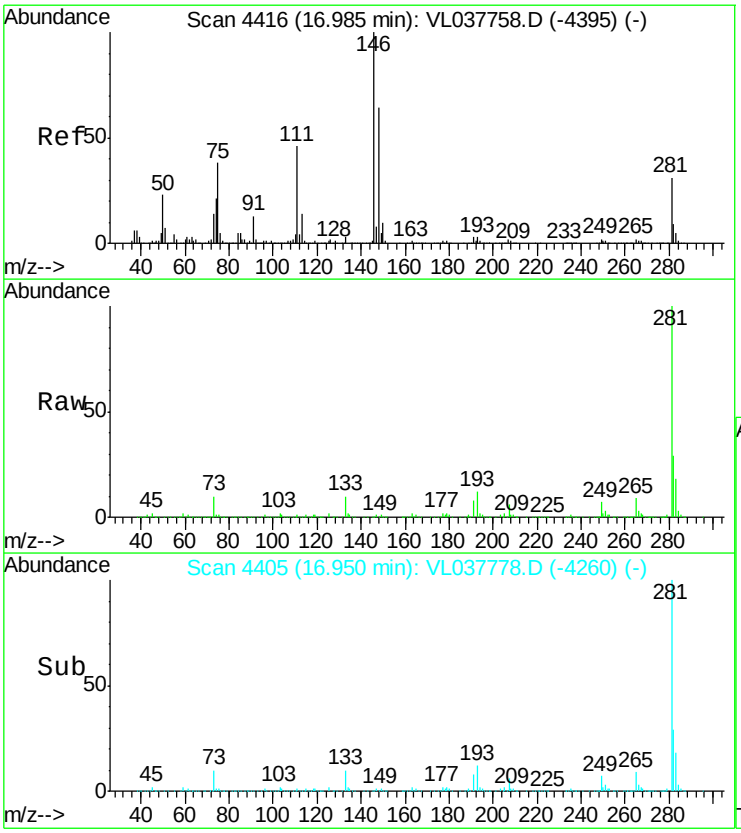
#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 91 Resp: 106482

Ion	Ratio	Lower	Upper
91	100		
106	65.5	23.5	70.5

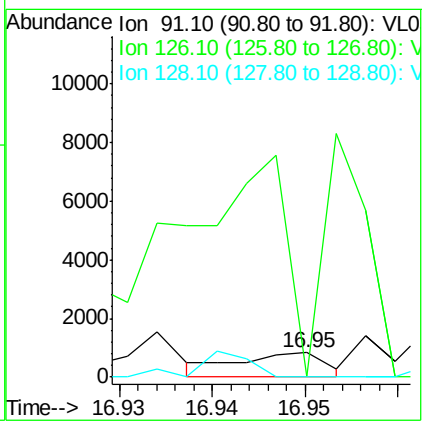


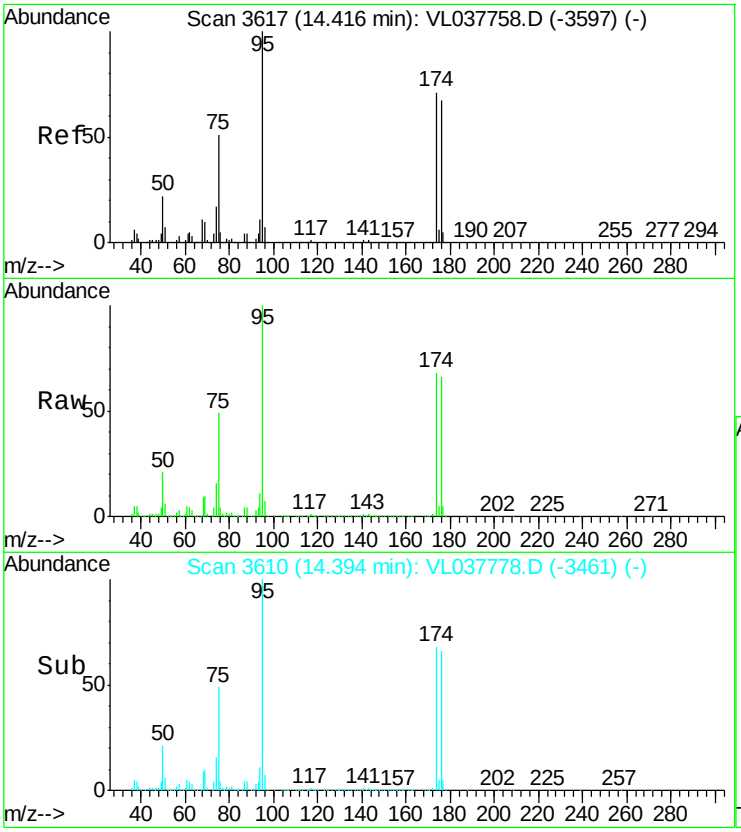


#66
Benzyl Chloride
Concen: 0.026 ppbv
RT: 16.95 min Scan# 4405
Delta R.T. -0.04 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion: 91 Resp: 550

Ion	Ratio	Lower	Upper
91	100		
126	2331.1	0.0	0.0#
128	0.0	5.3	7.9#



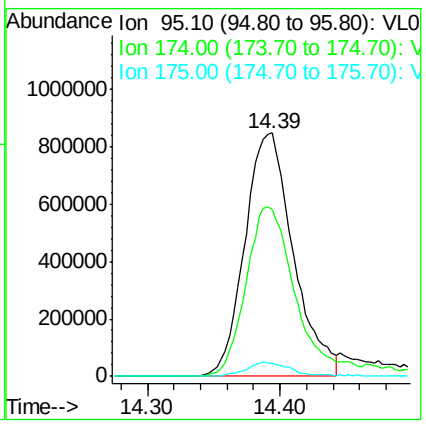


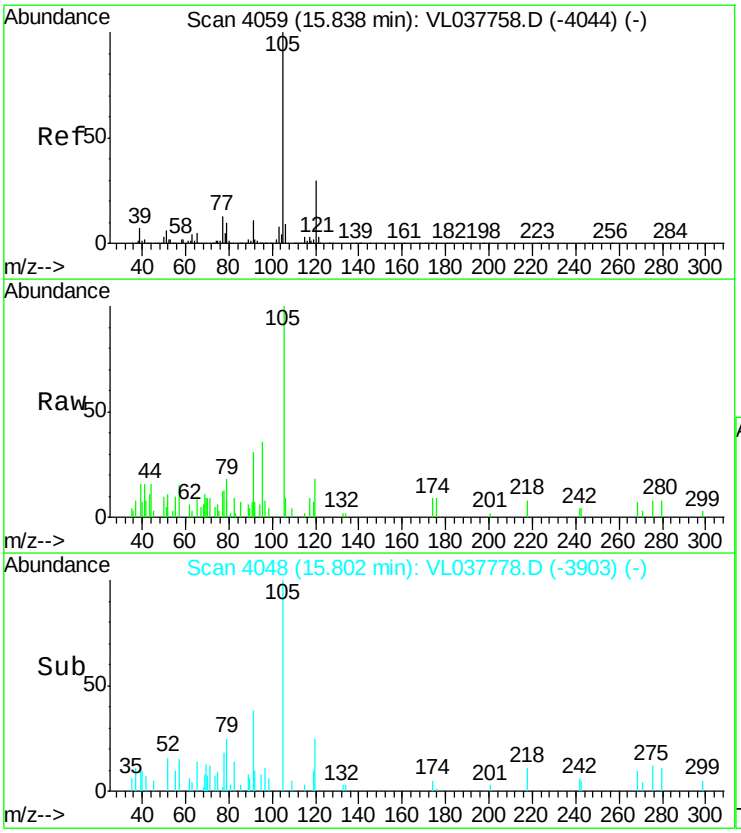
#68
1-Bromo-4-Fluorobenzene
Concen: 9.701 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion: 95 Resp: 2157585

Ion	Ratio	Lower	Upper
95	100		
174	78.0	57.8	86.6
175	5.8	4.7	7.1

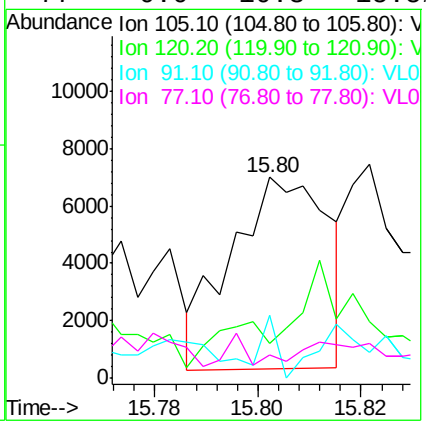


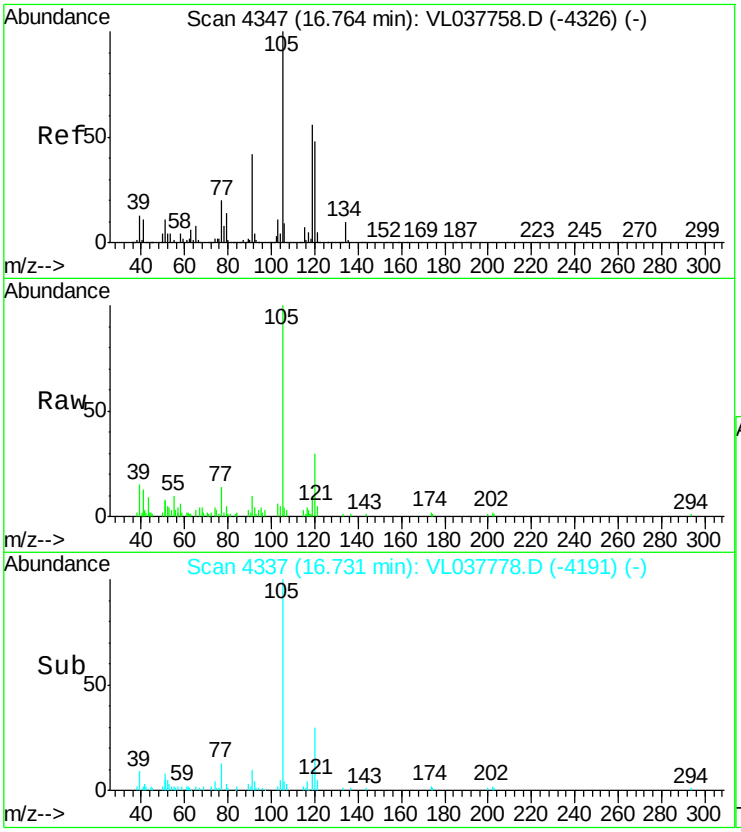


#72
4-Ethyltoluene
Concen: 0.022 ppbv
RT: 15.80 min Scan# 4048
Delta R.T. -0.04 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Tgt Ion:105 Resp: 8738

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.2	36.2#
91	45.0	10.4	15.6#
77	0.0	10.3	15.5#





#74
1,2,4-Trimethylbenzene
Concen: 0.062 ppbv
RT: 16.73 min Scan# 4337
Delta R.T. -0.03 min
Lab File: VL037778.D
Acq: 5 Oct 2021 17:57

Instrument :
MSVOA_L
ClientSampleId :
C0P28DUP

Tgt Ion:105 Resp: 23704

Ion	Ratio	Lower	Upper
105	100		
120	30.7	38.4	57.6#
91	7.6	34.2	51.2#
77	12.4	15.8	23.8#