Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037771.D
Acq On : 5 Oct 2021 13:23
Operator : SY/AP
Sample : M4012-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P22

Quant Time: Oct 06 04:45:49 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	1438730	10.00	ppbv		-0.02
33) 1,4-Difluorobenzene	7.16	114	4026943	10.00	ppbv		-0.02
55) Chlorobenzene-d5	12.07	117	3430596	10.00	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.39	95	2423975	10.10	ppbv		-0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.04	85	22837	0.099	ppbv		93
3) Chlorodifluoromethane	2.98	51	33037	0.120	ppbv	#	84
4) Chloromethane	3.13	50	12032	0.119	ppbv	#	78
9) Propene	3.35	41	47761	0.470	ppbv		96
10) Heptane	8.10	43	9173	0.040	ppbv	#	27
13) Ethanol	3.60	45	16775598	2016.688	ppbv		84
15) Acetone	3.83	43	7687489	59.521	ppbv		99
16) 1,3-Butadiene	3.34	39	11225	0.119	ppbv	#	22
17) tert-Butyl alcohol	4.29	59	37164	0.279	ppbv	#	71
19) Isopropyl Alcohol	3.97	45	4279912	53.265	ppbv	#	99
20) Methylene Chloride	4.34	84	95477	1.463	ppbv		92
21) Allyl Chloride	4.30	41	5687	0.050	ppbv	#	1
23) Vinyl Acetate	5.05	43	19708	0.102	ppbv	#	19
25) Ethyl Acetate	5.66	43	128200	0.354	ppbv	#	94
26) Hexane	5.68	57	59681	0.334	ppbv	#	80
27) Carbon Disulfide	4.54	76	3789	0.024	ppbv	#	1
29) Chloroform	5.74	83	65525	0.257	ppbv		94
34) 2-Butanone	5.23	43	75149	0.462	ppbv		91
36) Benzene	6.87	78	22250	0.065	ppbv	#	89
37) 1,2-Dichloroethane	6.29	62	44593	0.275	ppbv		98
39) 1,2-Dichloropropane	7.15	63	934208	7.221	ppbv	#	29
41) Tetrahydrofuran	6.03	42	1898	0.024	ppbv	#	36
44) 2,2,4-Trimethylpentane	7.86	57	31976	0.055	ppbv	#	32
51) 2-Hexanone	10.10	43	2397	0.025	ppbv	#	29
53) Toluene	9.78	91	321422	0.843	ppbv		100
58) Ethyl Benzene	12.68	91	34673	0.075	ppbv		99
59) m/p-Xylene	12.97	91	56005	0.142	ppbv	#	30
60) o-Xylene	13.66	91	72269	0.191	ppbv		96
61) Styrene	13.51	104	22588	0.123	ppbv	#	40
66) Benzyl Chloride	16.96	91	632	0.028	ppbv	#	1
73) 1,3,5-Trimethylbenzene	15.98	105	10821	0.028	ppbv	#	82
74) 1,2,4-Trimethylbenzene	16.74	105	55040	0.134	ppbv	#	74
79) Naphthalene	22.17	128	12632	0.050	ppbv	#	73
80) Naphthalene,2-methyl-	24.95	142	4646	0.069	ppbv	#	72

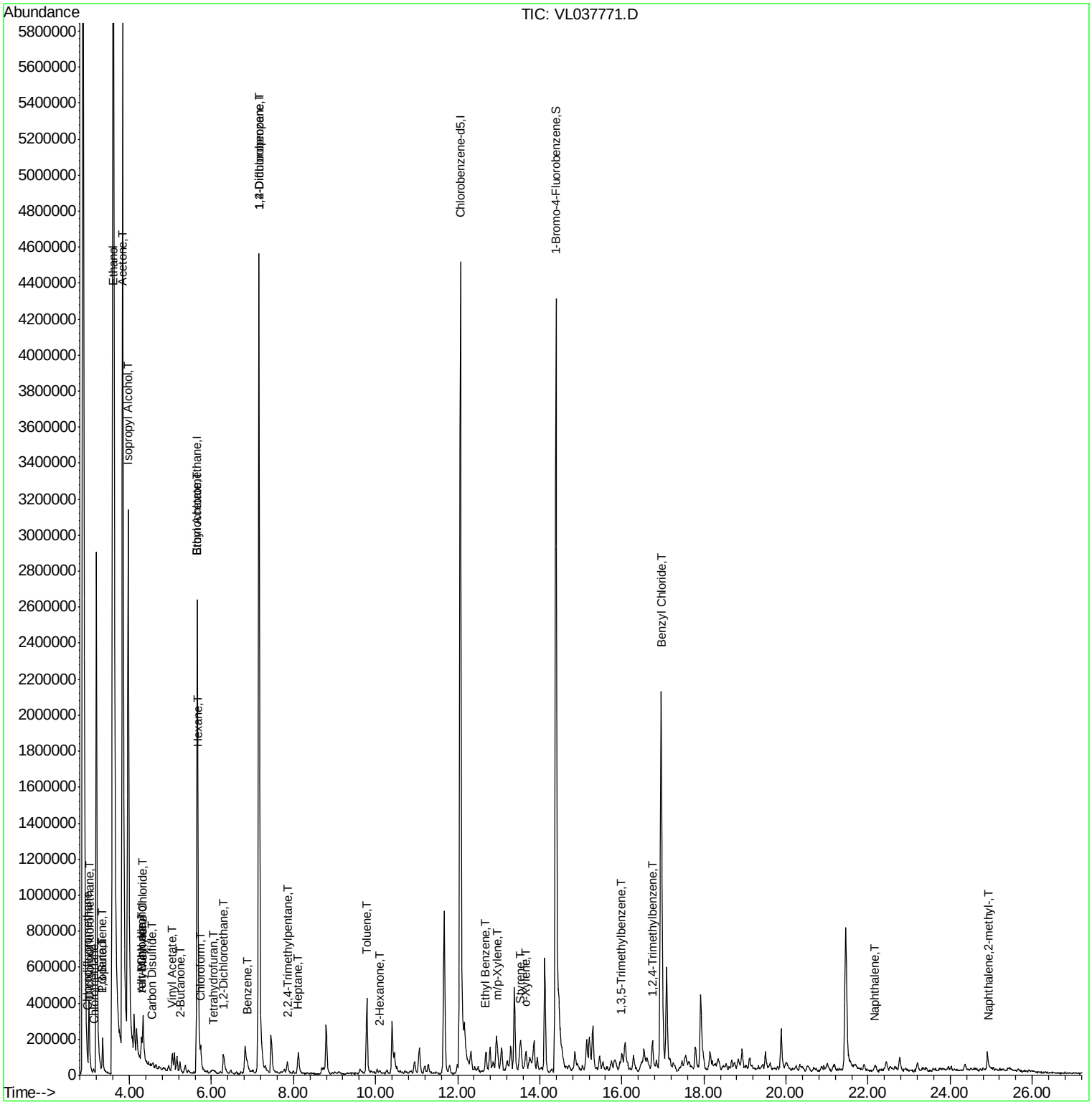
(#) = qualifier out of range (m) = manual integration (+) = signals summed

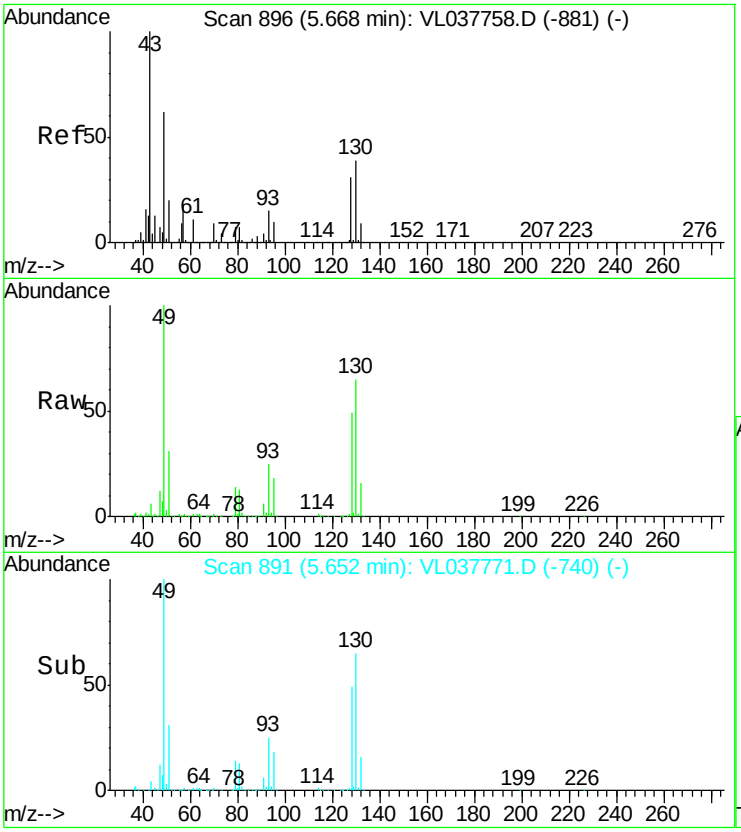
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037771.D
Acq On : 5 Oct 2021 13:23
Operator : SY/AP
Sample : M4012-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P22

Quant Time: Oct 06 04:45:49 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



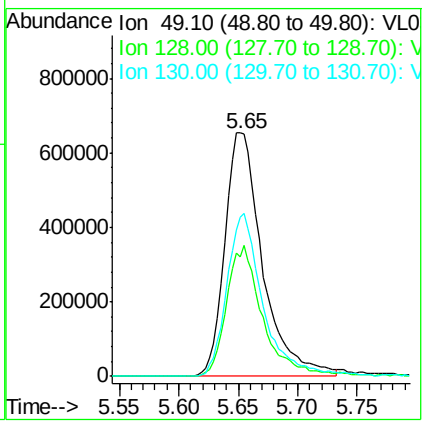


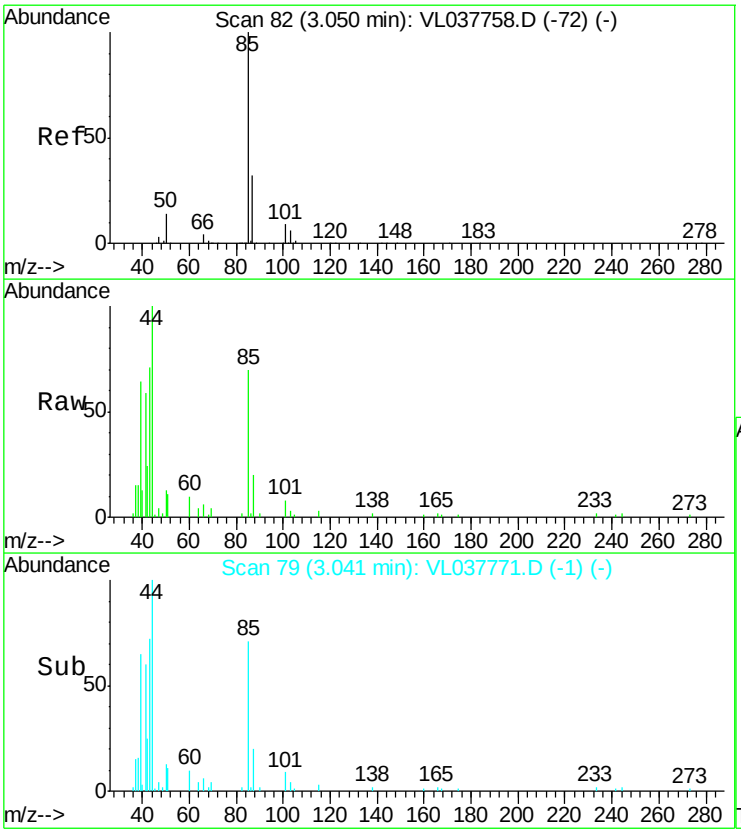
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 49 Resp: 1438730

Ion	Ratio	Lower	Upper
49	100		
128	51.7	27.1	81.3
130	64.4	33.2	99.6

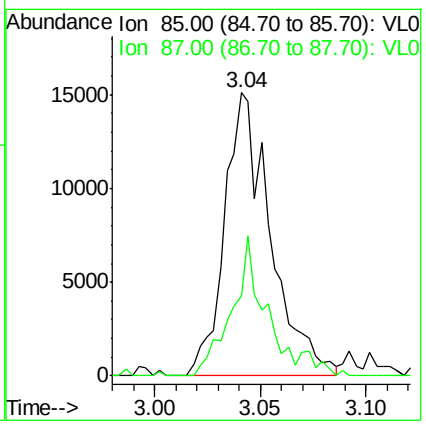


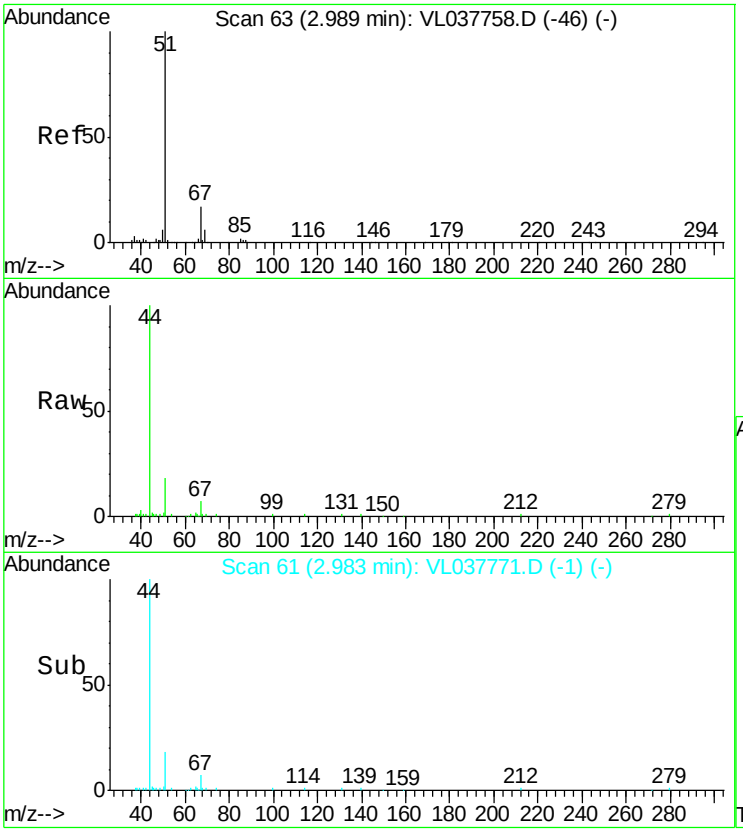


#2
Dichlorodifluoromethane
Concen: 0.099 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 85 Resp: 22837

Ion	Ratio	Lower	Upper
85	100		
87	28.1	25.7	38.5



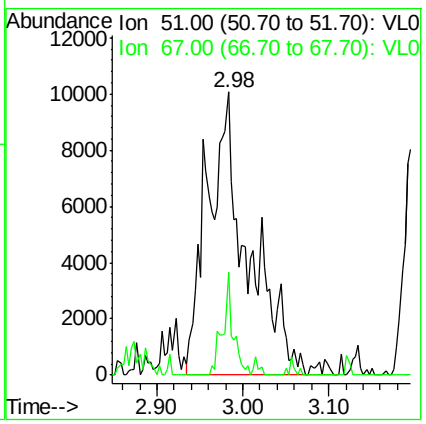


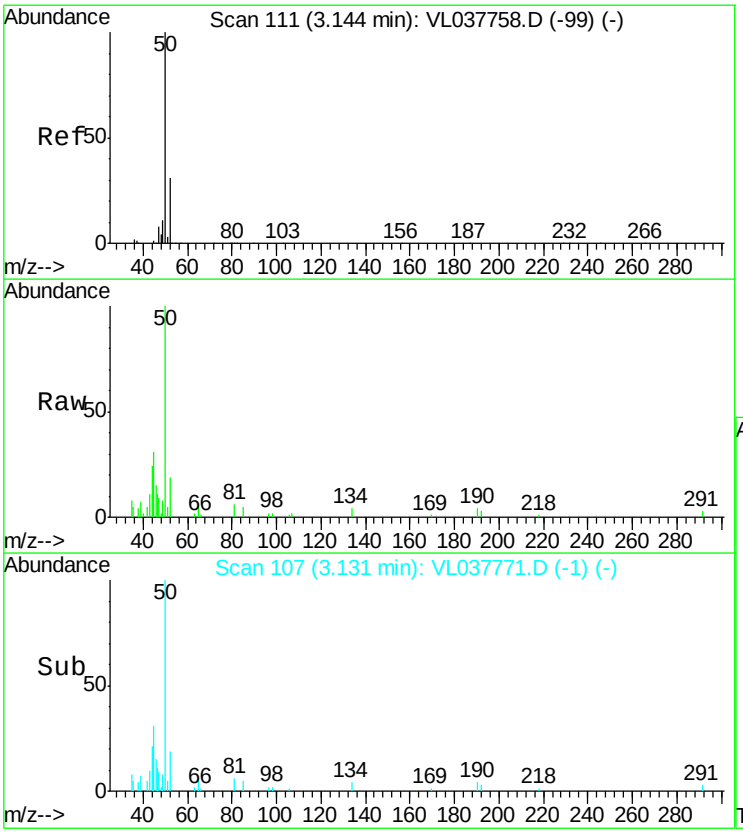
#3
Chlorodifluoromethane
Concen: 0.120 ppbv
RT: 2.98 min Scan# 61
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 51 Resp: 33037

Ion	Ratio	Lower	Upper
51	100		
67	10.0	13.5	20.3#

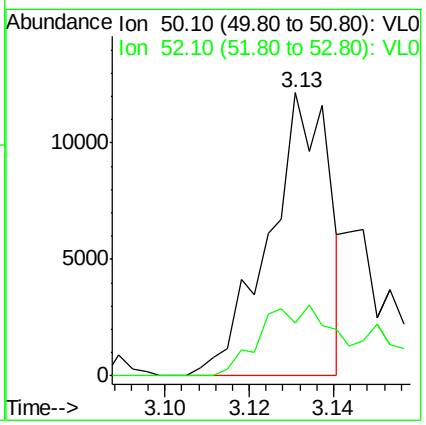


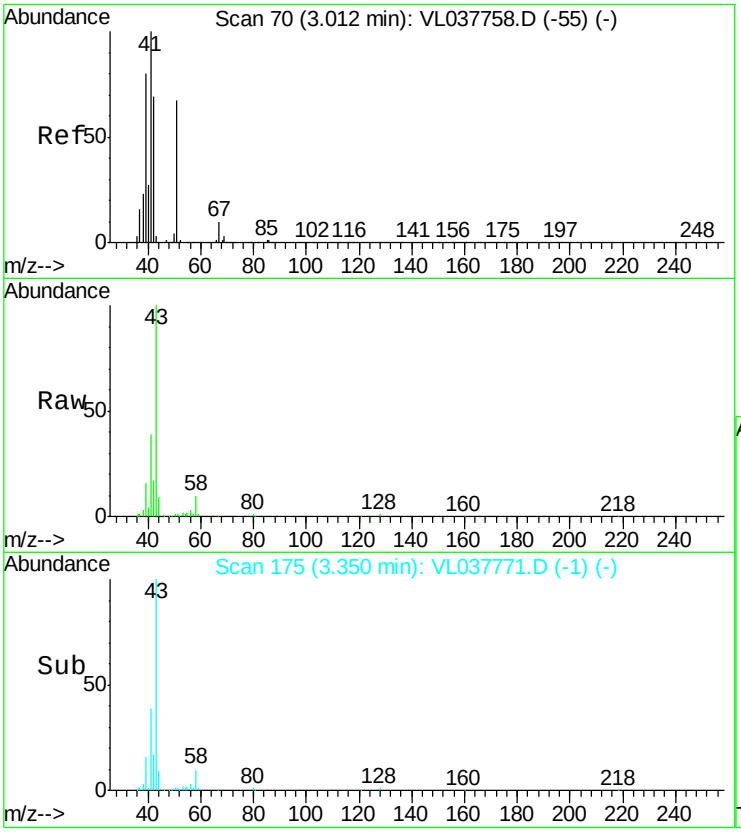


#4
Chloromethane
Concen: 0.119 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 50 Resp: 12032

Ion	Ratio	Lower	Upper
50	100		
52	18.7	24.4	36.6#



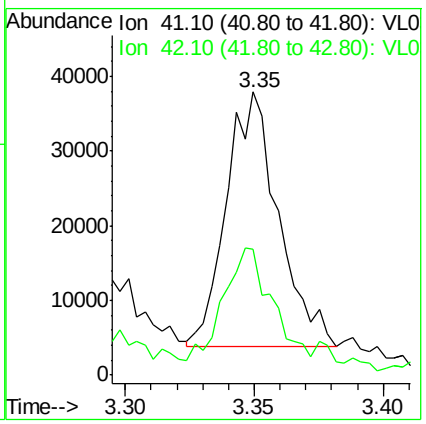


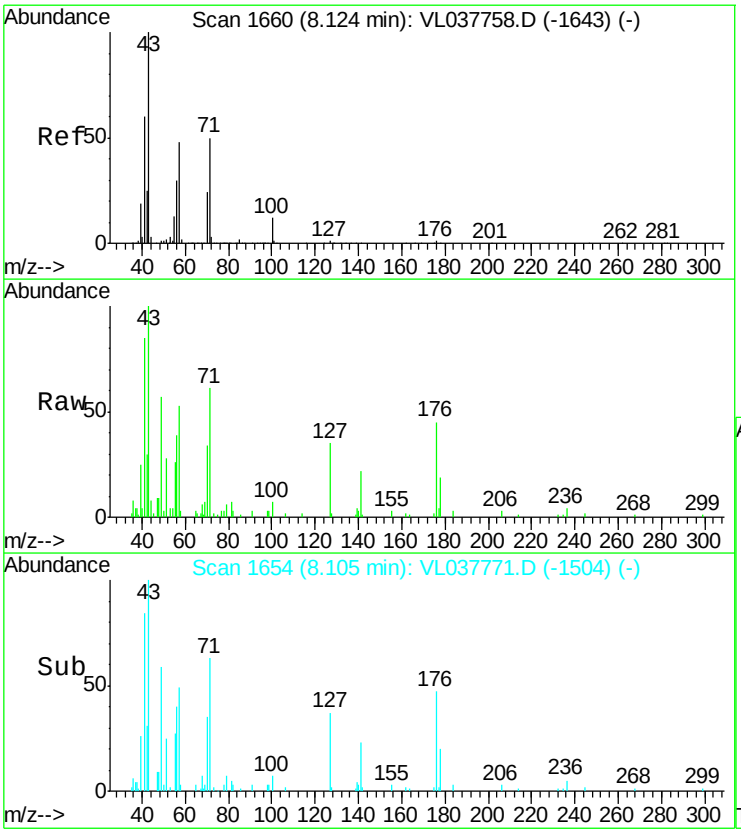
#9
Propene
Concen: 0.470 ppbv
RT: 3.35 min Scan# 175
Delta R.T. 0.34 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 41 Resp: 47761

Ion	Ratio	Lower	Upper
41	100		
42	64.4	54.2	81.2

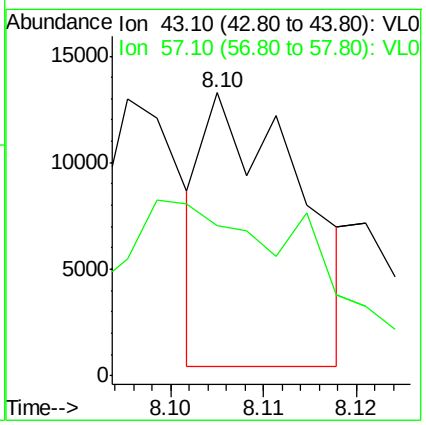


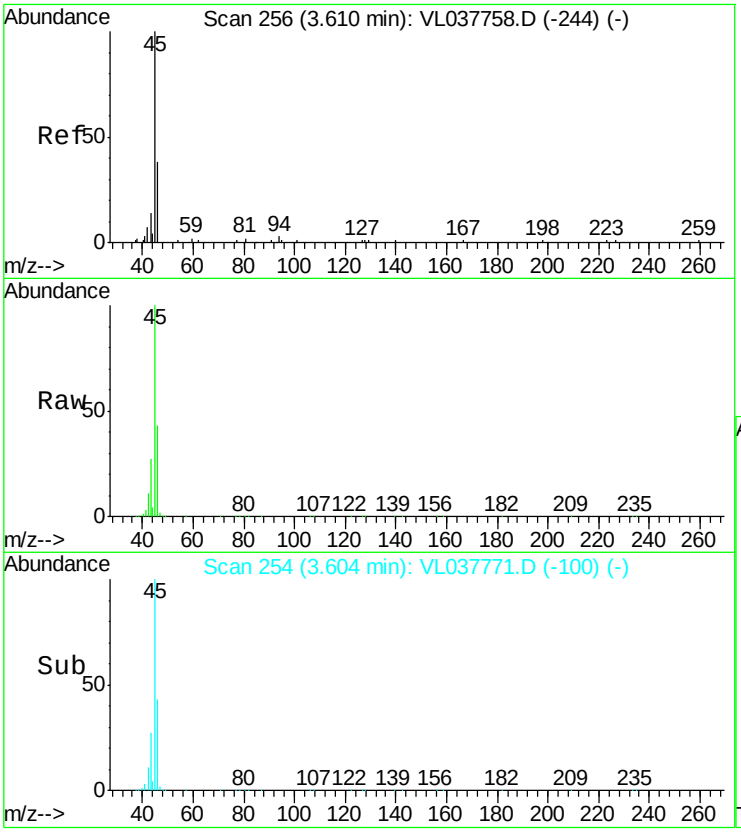


#10
Heptane
Concen: 0.040 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 9173

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.0	60.0#



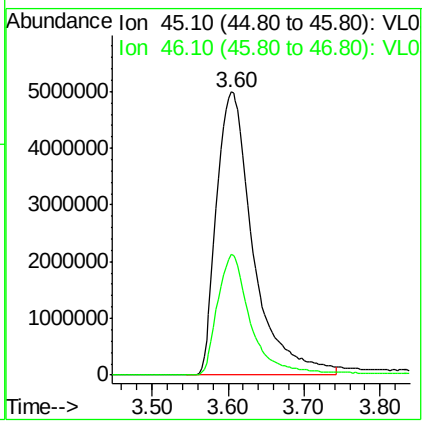


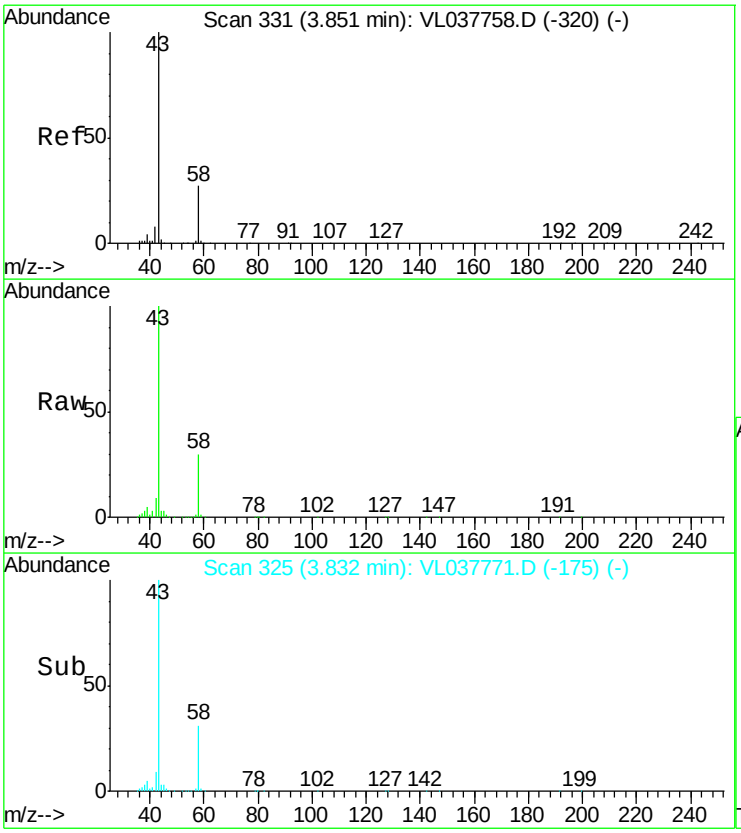
#13
Ethanol
Concen: 2016.688 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 45 Resp:16775598

Ion	Ratio	Lower	Upper
45	100		
46	39.6	20.2	81.0

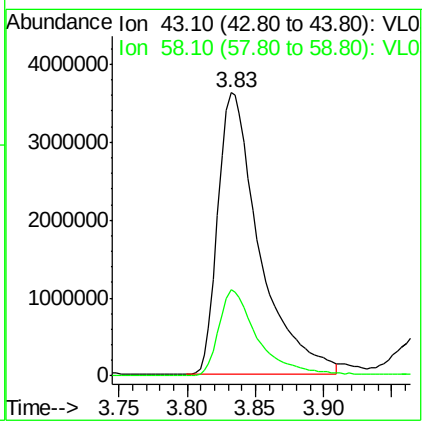


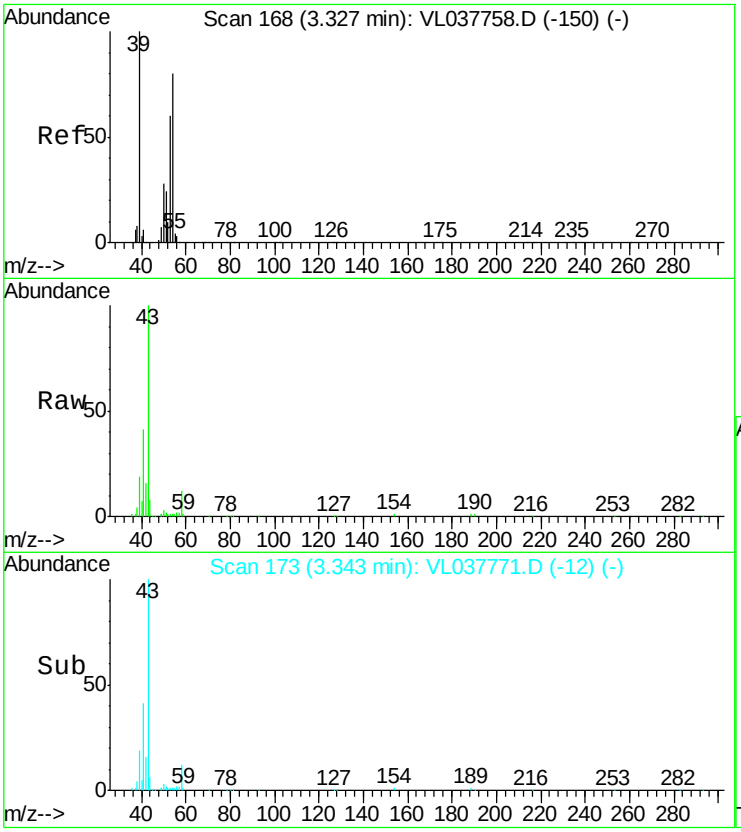


#15
Acetone
Concen: 59.521 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 7687489

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.0	34.6



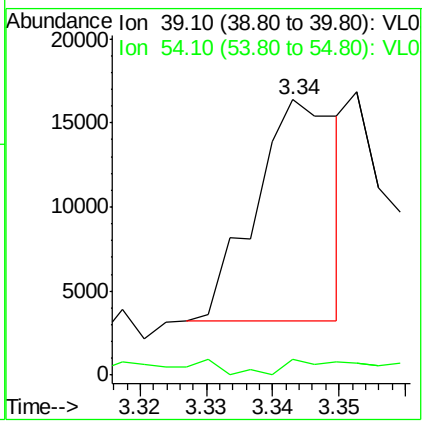


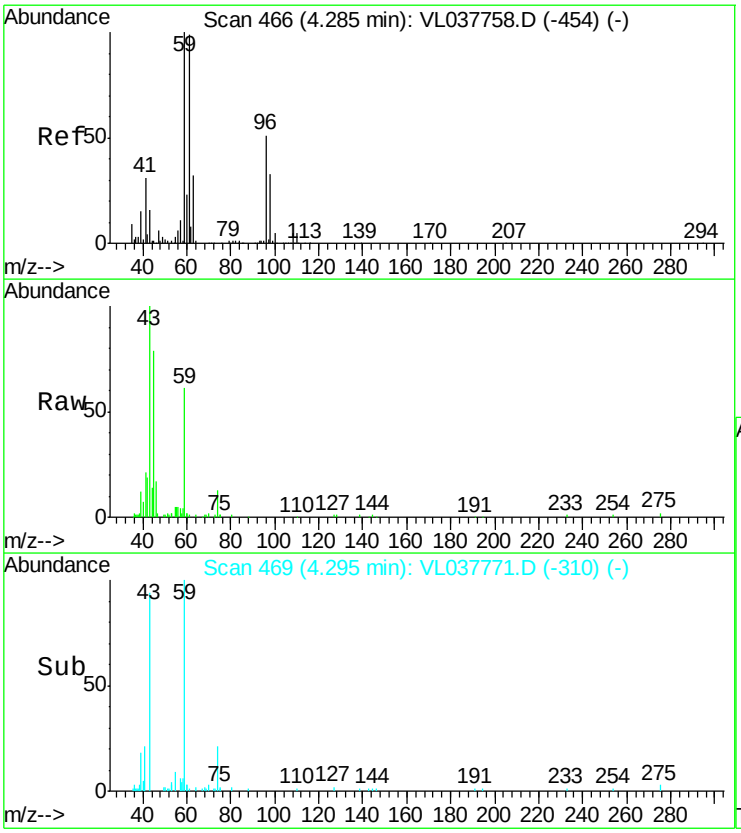
#16
1,3-Butadiene
Concen: 0.119 ppbv
RT: 3.34 min Scan# 173
Delta R.T. 0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 39 Resp: 11225

Ion	Ratio	Lower	Upper
39	100		
54	9.9	61.7	92.5#

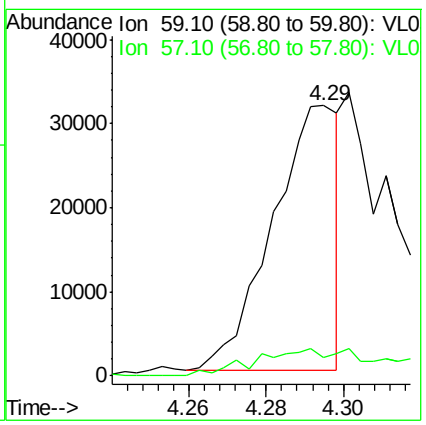


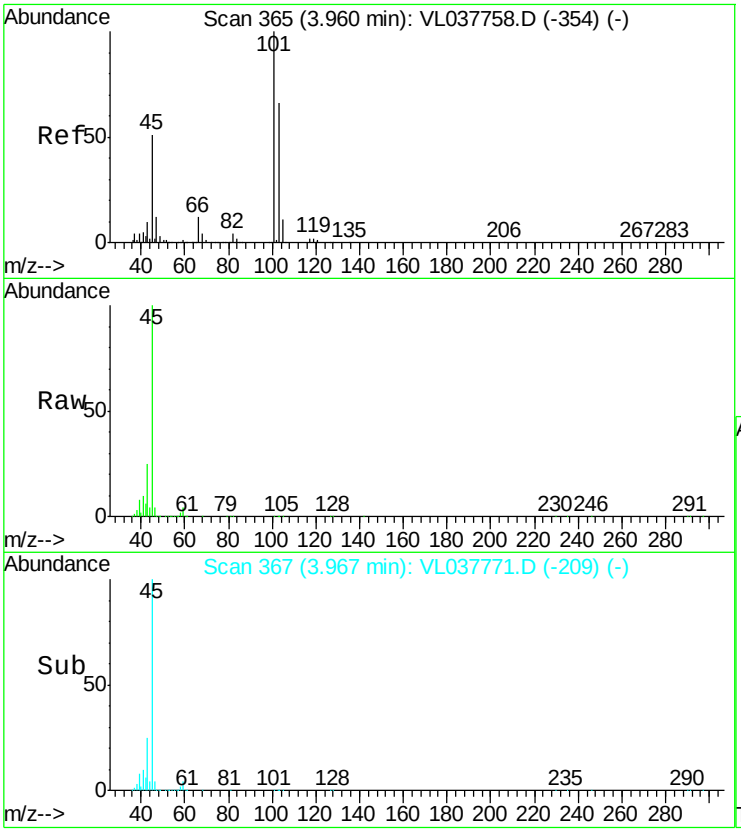


#17
tert-Butyl alcohol
Concen: 0.279 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 59 Resp: 37164

Ion	Ratio	Lower	Upper
59	100		
57	21.9	8.6	13.0#



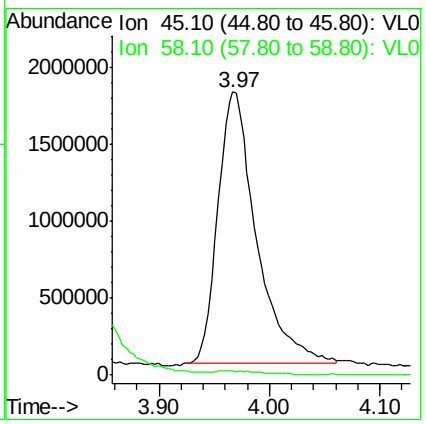


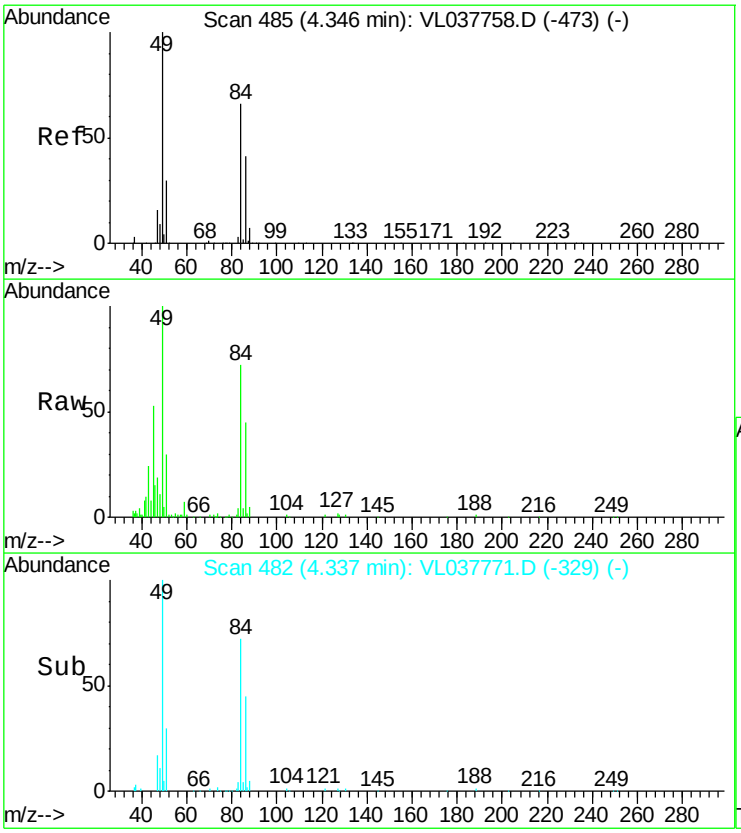
#19
Isopropyl Alcohol
Concen: 53.265 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 45 Resp: 4279912

Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.1	1.7#

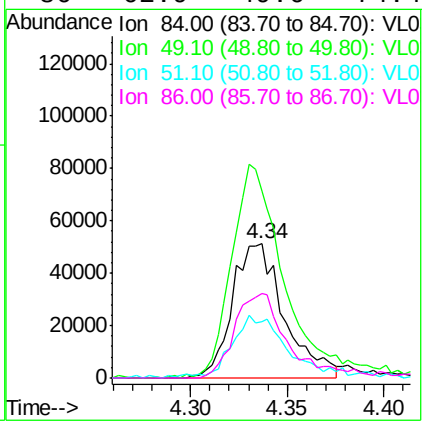


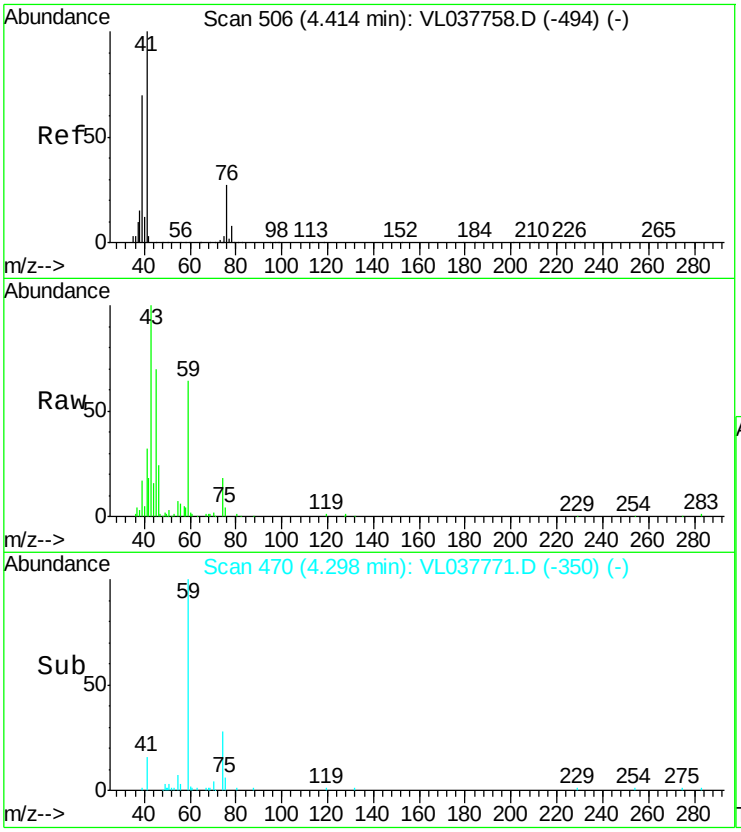


#20
Methylene Chloride
Concen: 1.463 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 84 Resp: 95477

Ion	Ratio	Lower	Upper
84	100		
49	136.8	120.7	181.1
51	39.8	36.2	54.4
86	62.9	49.6	74.4



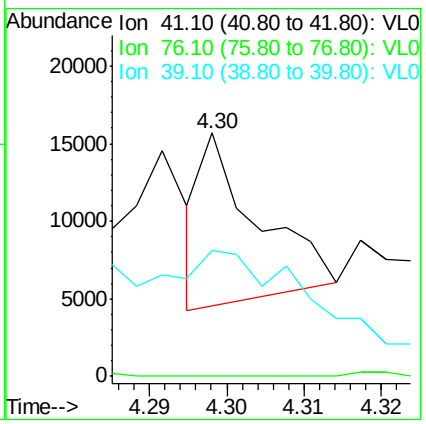


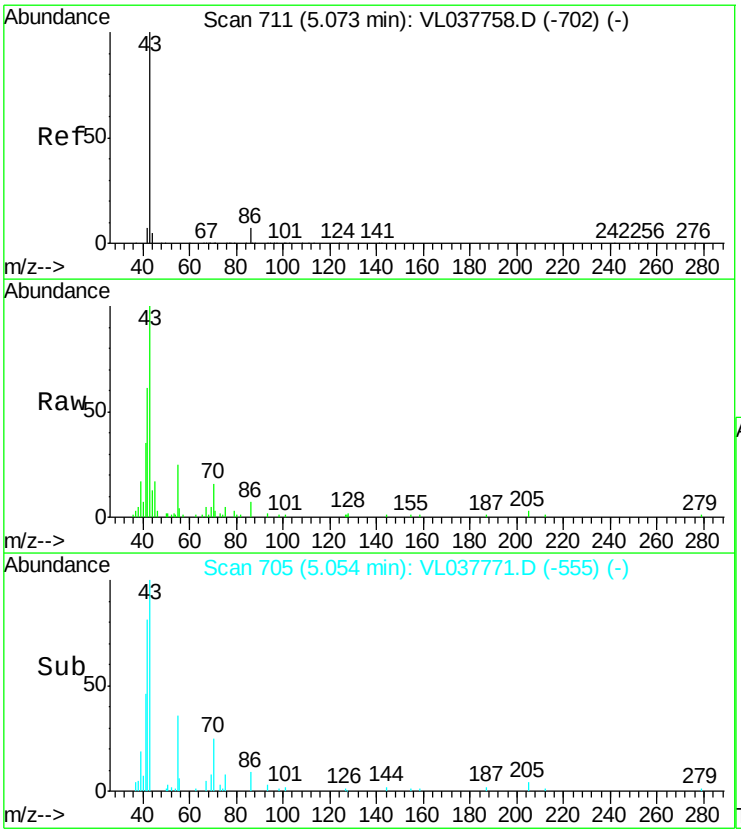
#21
Allyl Chloride
Concen: 0.050 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.12 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 41 Resp: 5687

Ion	Ratio	Lower	Upper
41	100		
76	3.3	22.4	33.6#
39	235.0	58.0	87.0#

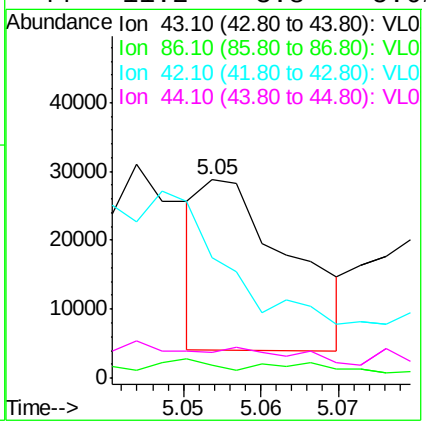


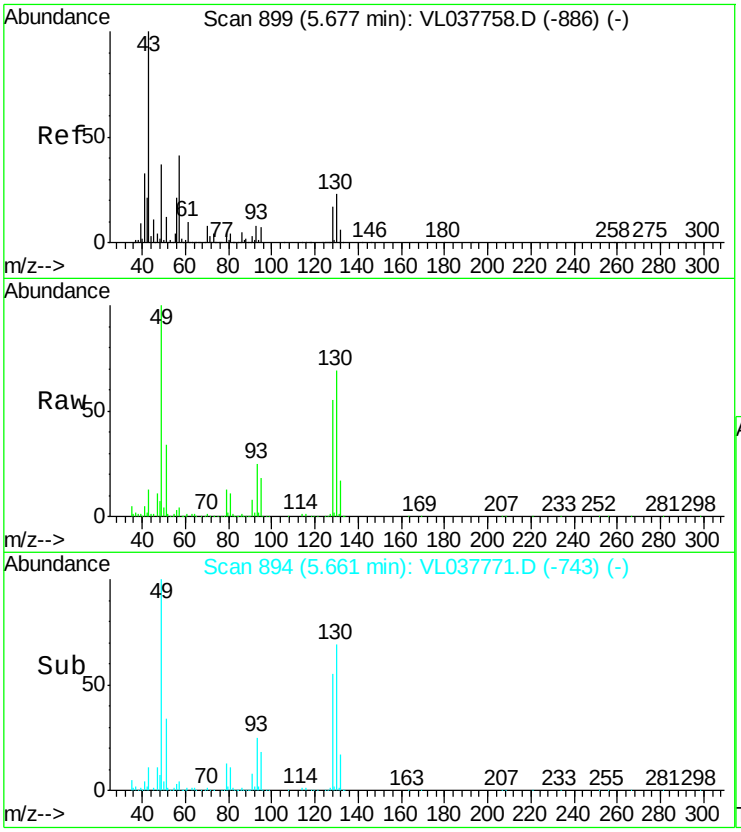


#23
Vinyl Acetate
Concen: 0.102 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 19708

Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.0	7.4
42	68.8	7.4	11.0#
44	11.2	3.8	5.6#



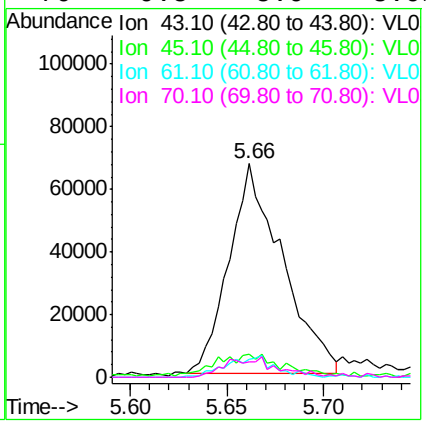


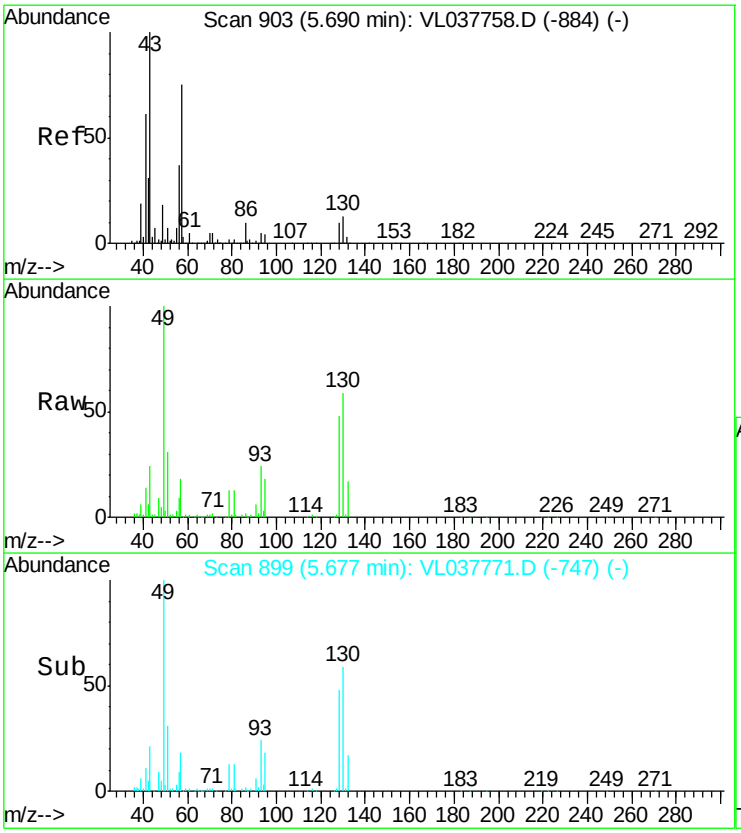
#25
Ethyl Acetate
Concen: 0.354 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 43 Resp: 128200

Ion	Ratio	Lower	Upper
43	100		
45	14.3	8.1	12.1#
61	9.4	7.5	11.3
70	9.5	5.9	8.9#

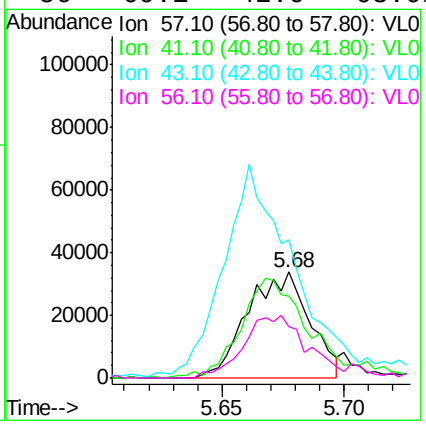


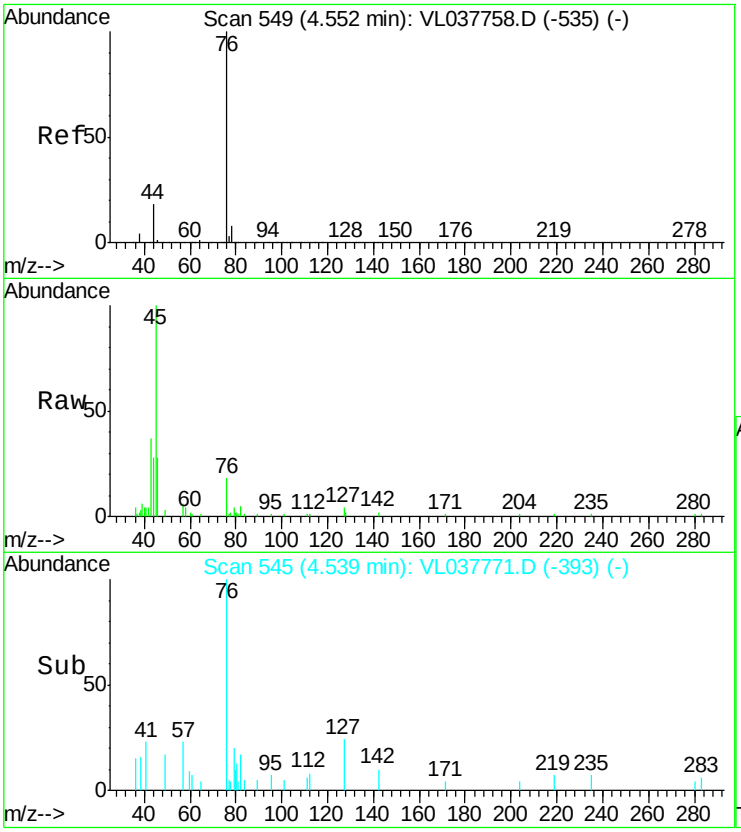


#26
Hexane
Concen: 0.334 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 57 Resp: 59681

Ion	Ratio	Lower	Upper
57	100		
41	108.4	69.6	104.4#
43	241.4	171.4	257.0
56	69.1	42.0	63.0#



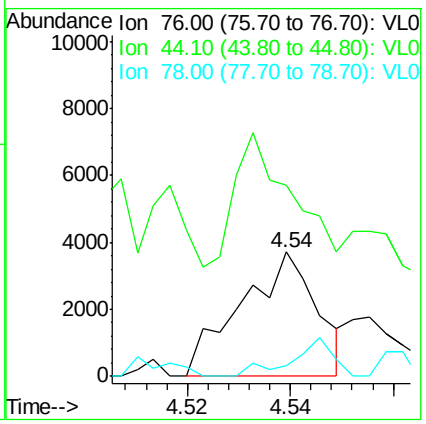


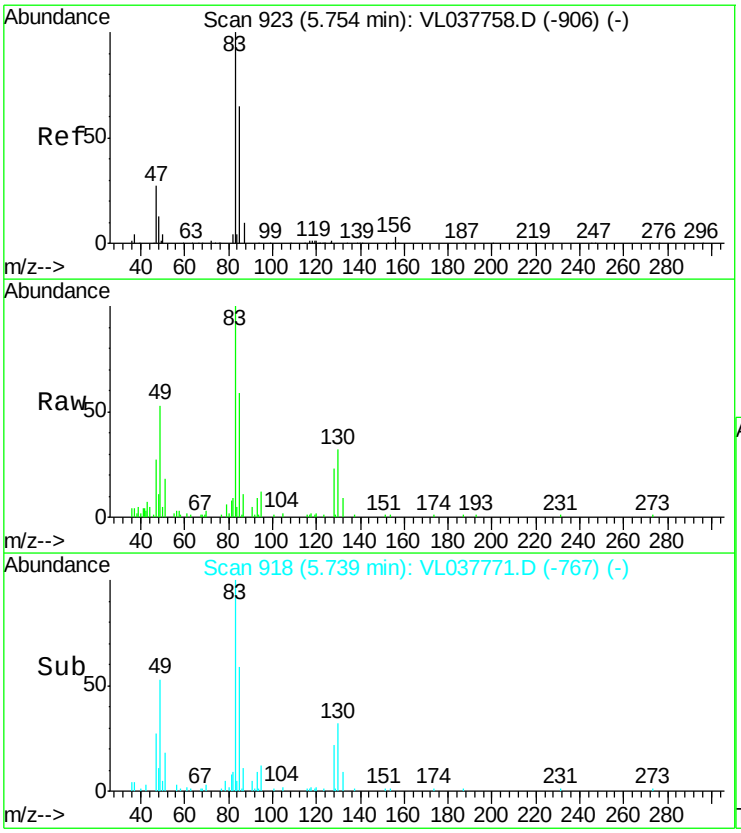
#27
Carbon Disulfide
Concen: 0.024 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 76 Resp: 3789

Ion	Ratio	Lower	Upper
76	100		
44	132.6	14.3	21.5#
78	16.8	7.8	11.6#

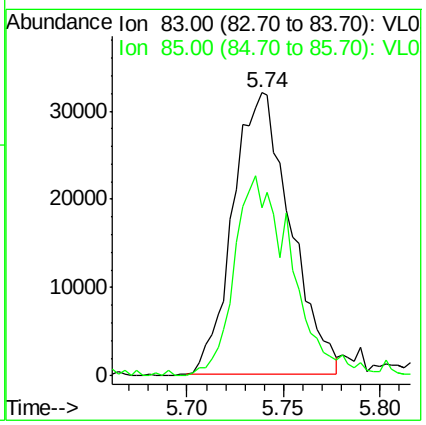


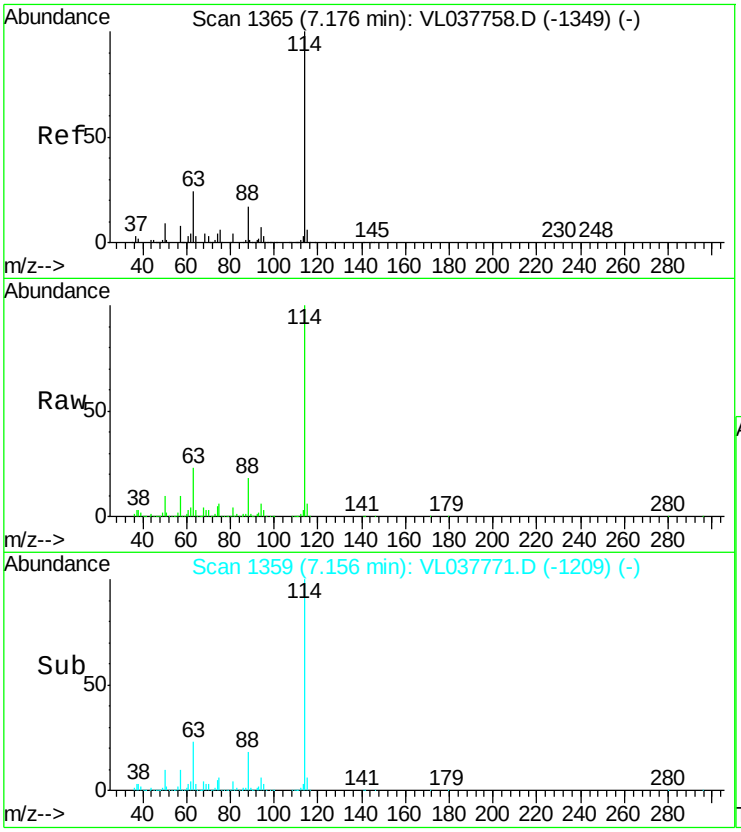


#29
Chloroform
Concen: 0.257 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 83 Resp: 65525

Ion	Ratio	Lower	Upper
83	100		
85	59.7	51.8	77.8



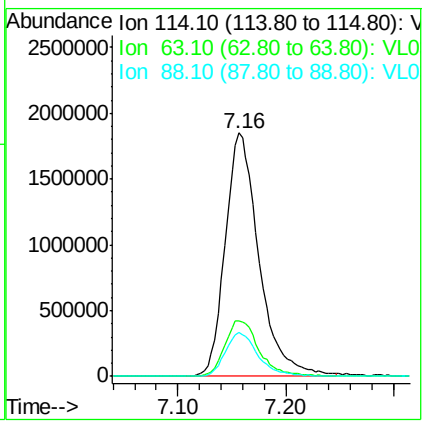


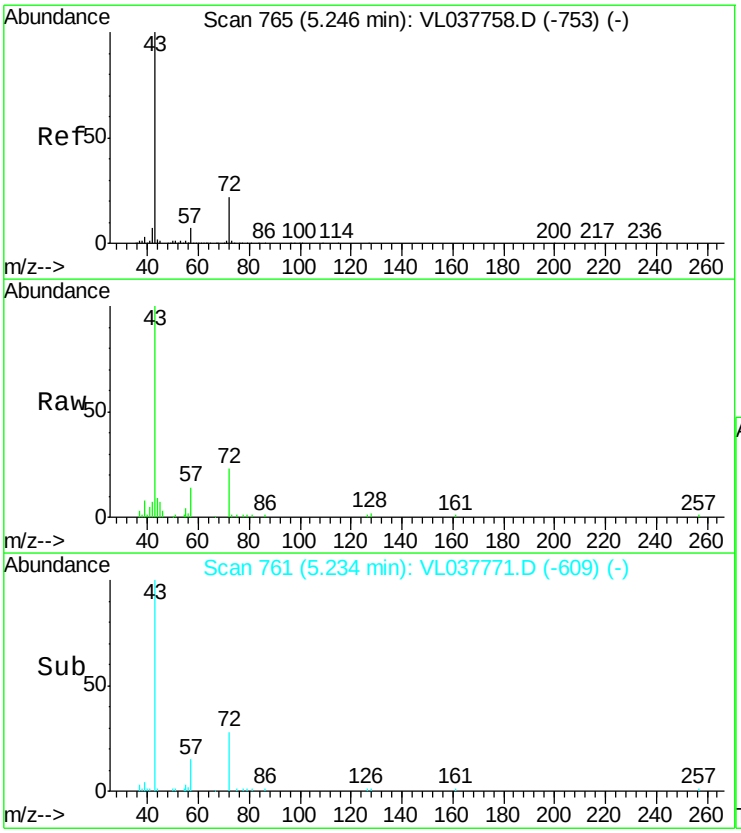
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion:114 Resp: 4026943

Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.4	29.2
88	17.9	14.4	21.6

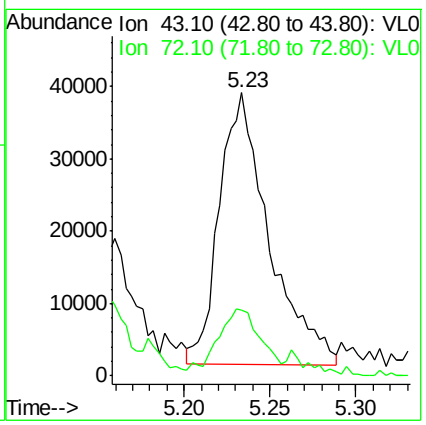


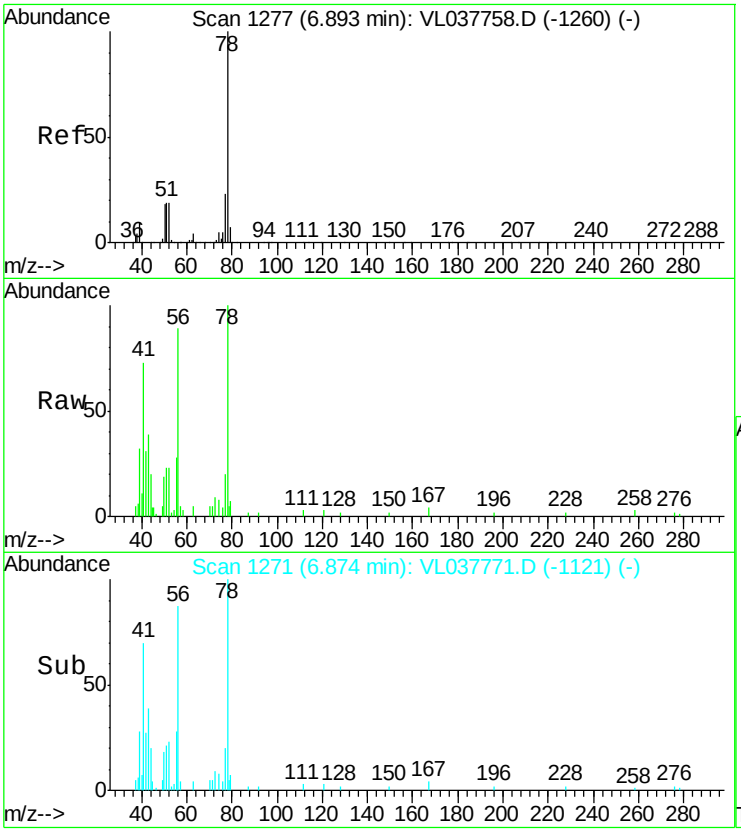


#34
2-Butanone
Concen: 0.462 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 75149

Ion	Ratio	Lower	Upper
43	100		
72	26.8	18.2	27.2



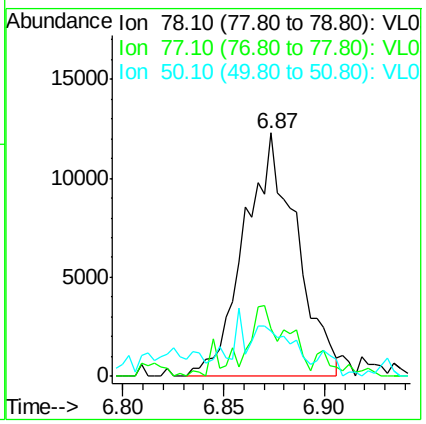


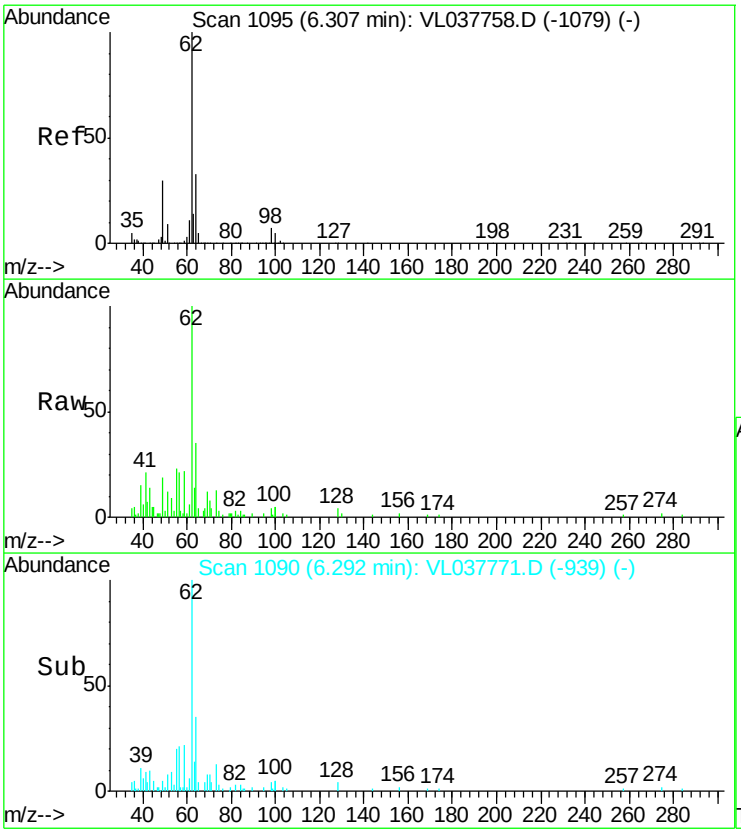
#36
Benzene
Concen: 0.065 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 78 Resp: 22250

Ion	Ratio	Lower	Upper
78	100		
77	19.9	18.8	28.2
50	11.9	14.7	22.1#

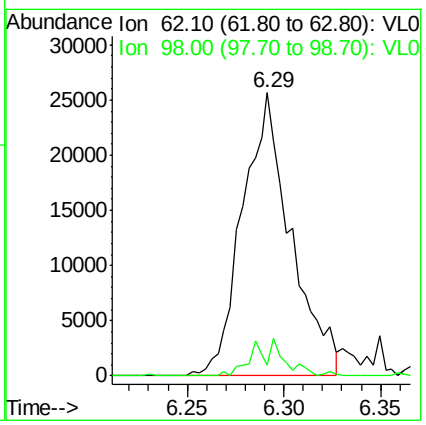


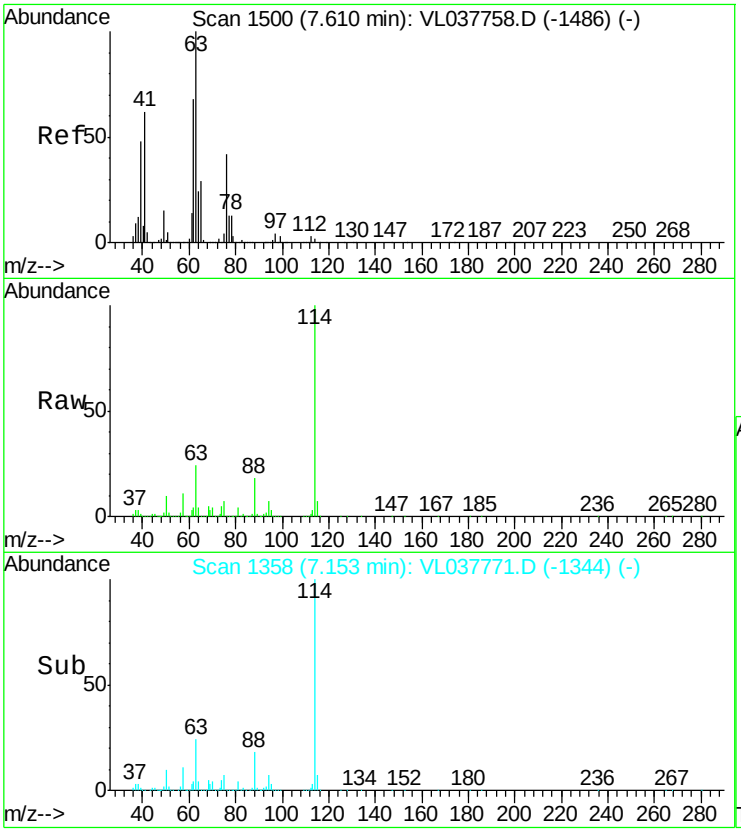


#37
1,2-Dichloroethane
Concen: 0.275 ppbv
RT: 6.29 min Scan# 1090
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 62 Resp: 44593

Ion	Ratio	Lower	Upper
62	100		
98	8.3	6.1	9.1



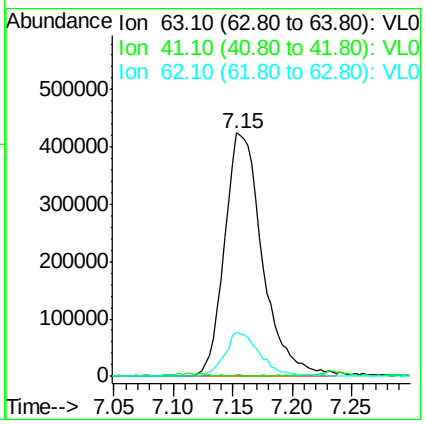


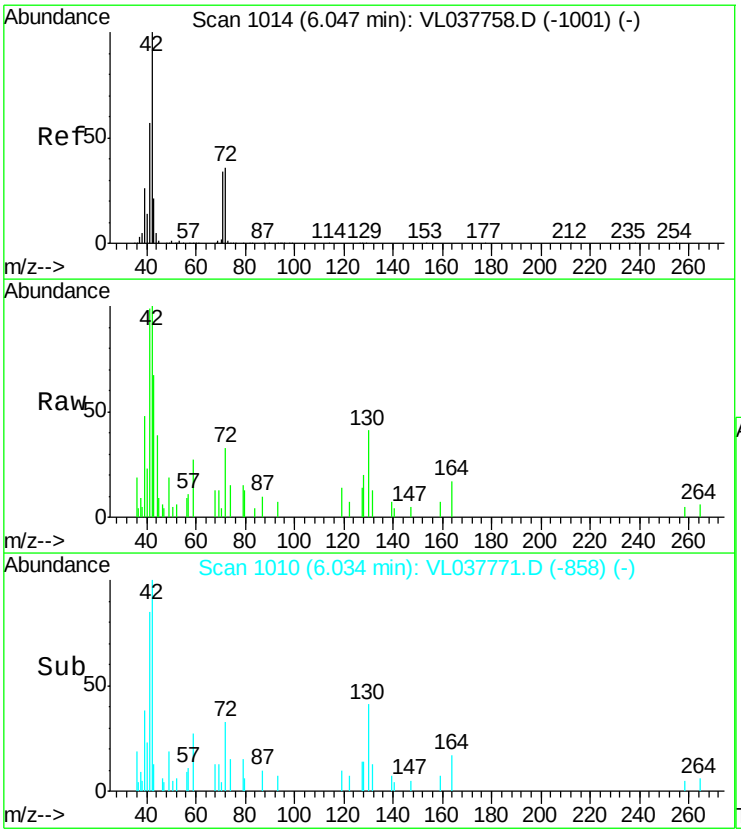
#39
1,2-Dichloropropane
Concen: 7.221 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.46 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion: 63 Resp: 934208

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	17.9	54.6	82.0#

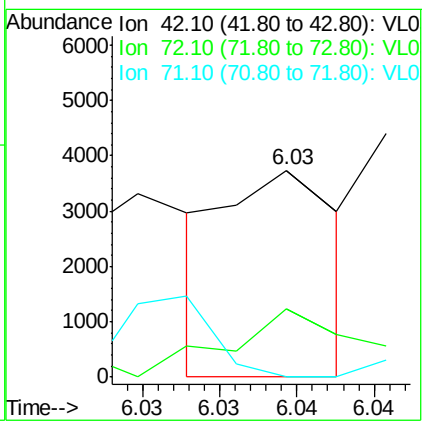


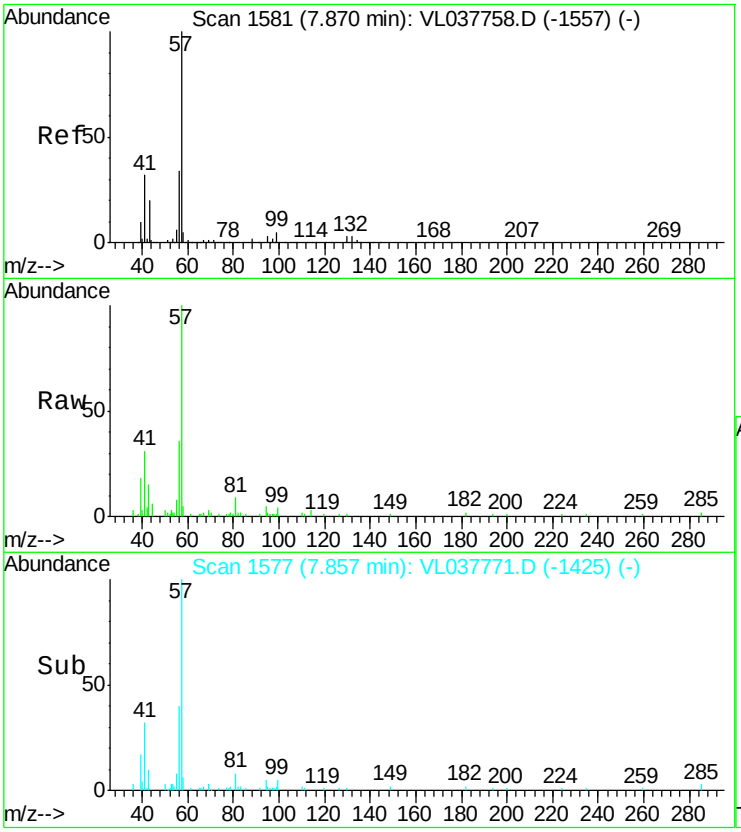


#41
Tetrahydrofuran
Concen: 0.024 ppbv
RT: 6.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 42 Resp: 1898

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.9	47.9#
71	0.0	30.3	45.5#



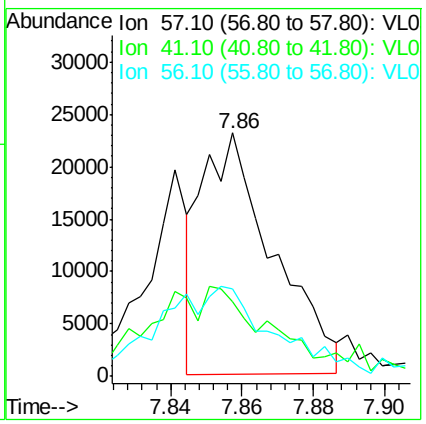


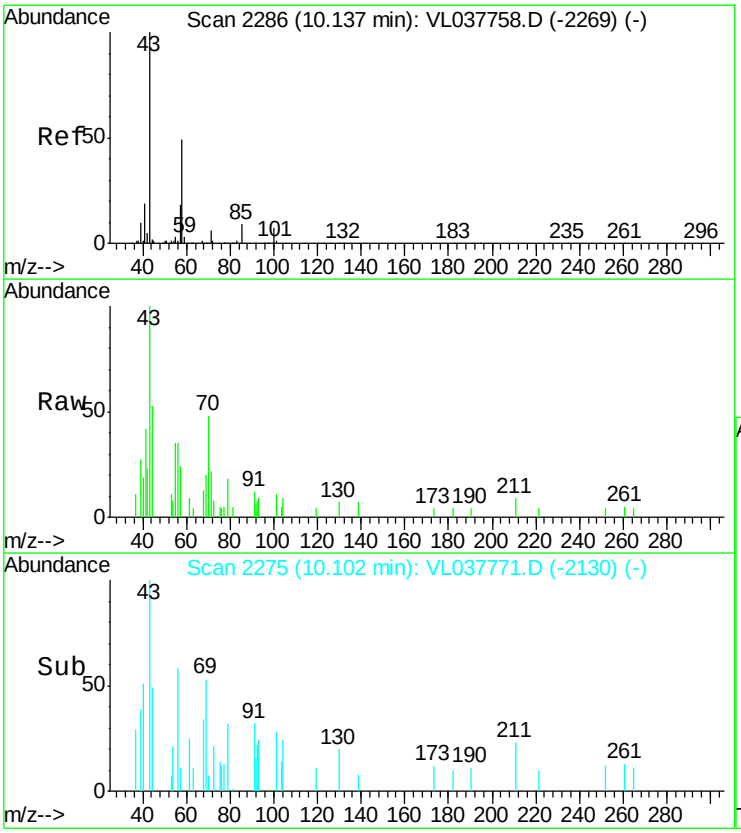
#44
2,2,4-Trimethylpentane
Concen: 0.055 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.01 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 57 Resp: 31976

Ion	Ratio	Lower	Upper
57	100		
41	72.3	25.6	38.4#
56	67.1	25.5	38.3#

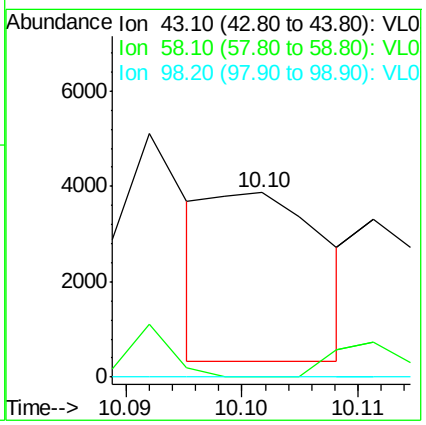


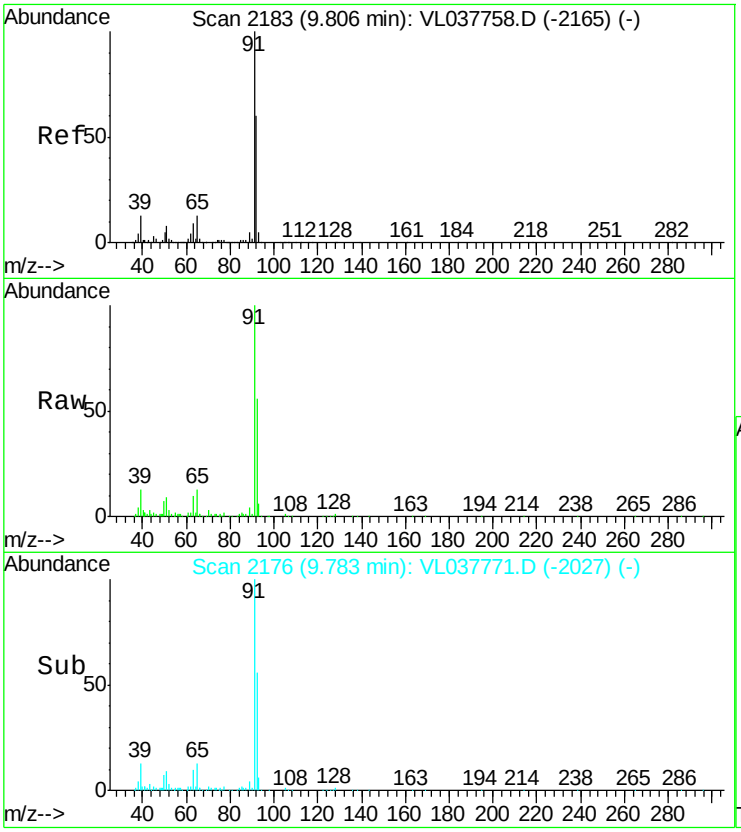


#51
2-Hexanone
Concen: 0.025 ppbv
RT: 10.10 min Scan# 2275
Delta R.T. -0.04 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 43 Resp: 2397

Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.4	59.0#
98	0.0	0.3	0.5#



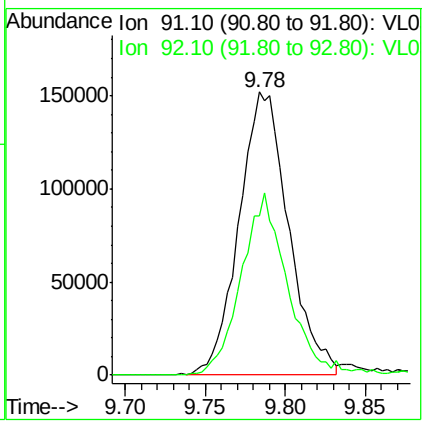


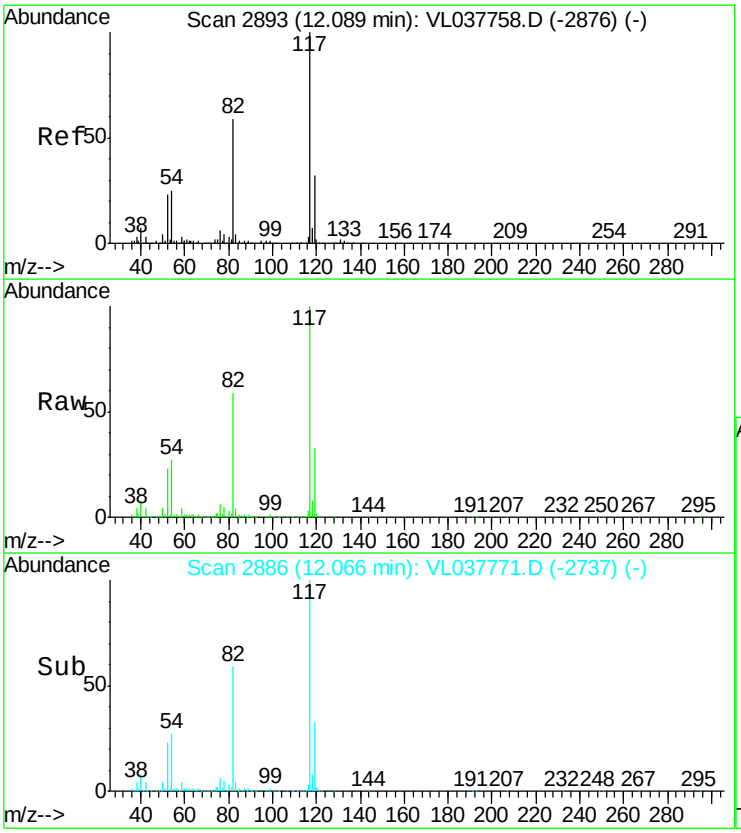
#53
Toluene
Concen: 0.843 ppbv
RT: 9.78 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 91 Resp: 321422

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.4	72.6

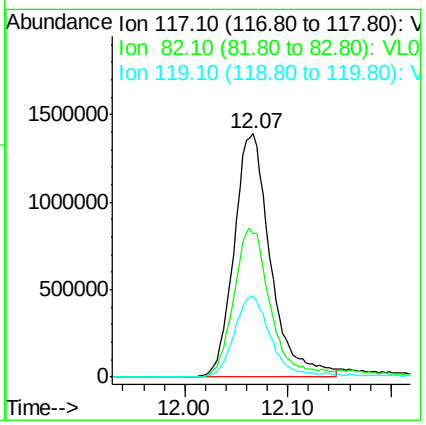


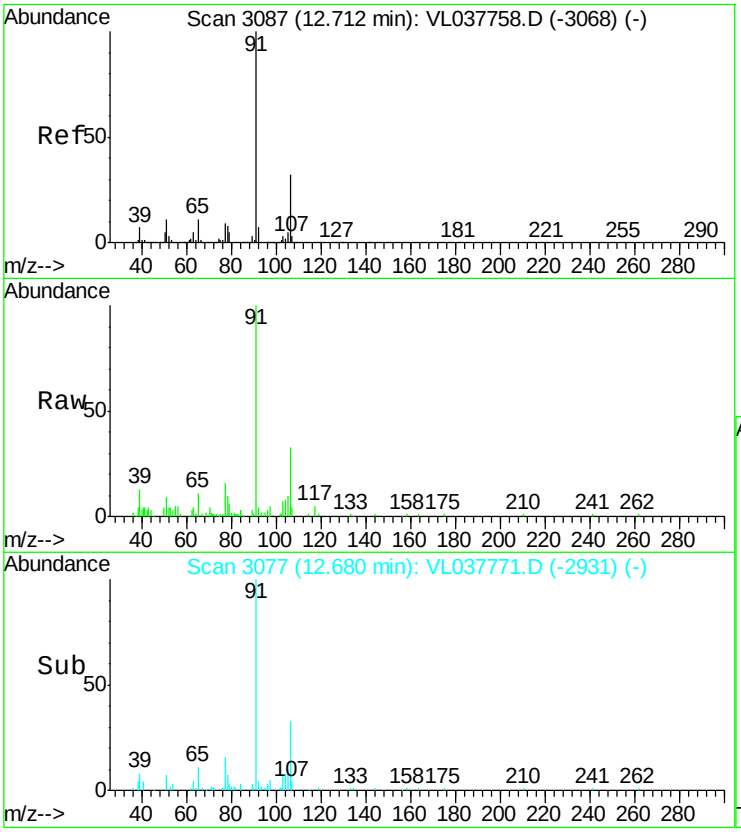


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion:117 Resp: 3430596

Ion	Ratio	Lower	Upper
117	100		
82	66.3	52.2	78.2
119	34.8	26.0	39.0



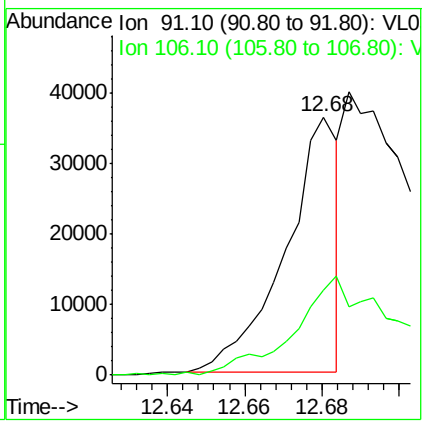


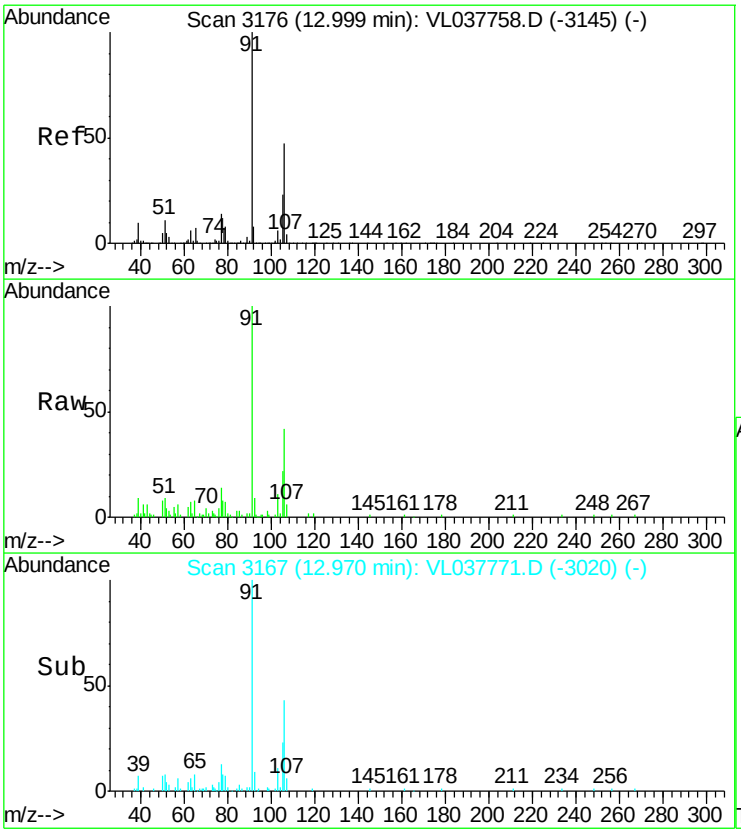
#58
Ethyl Benzene
Concen: 0.075 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 91 Resp: 34673

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.3	37.9

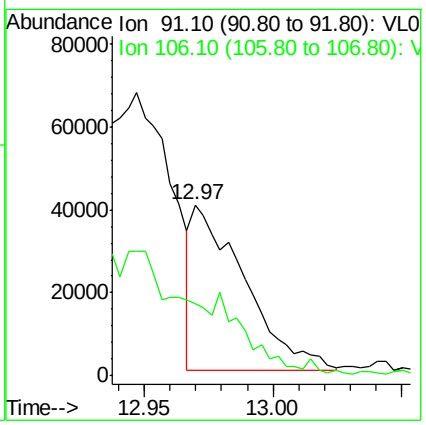


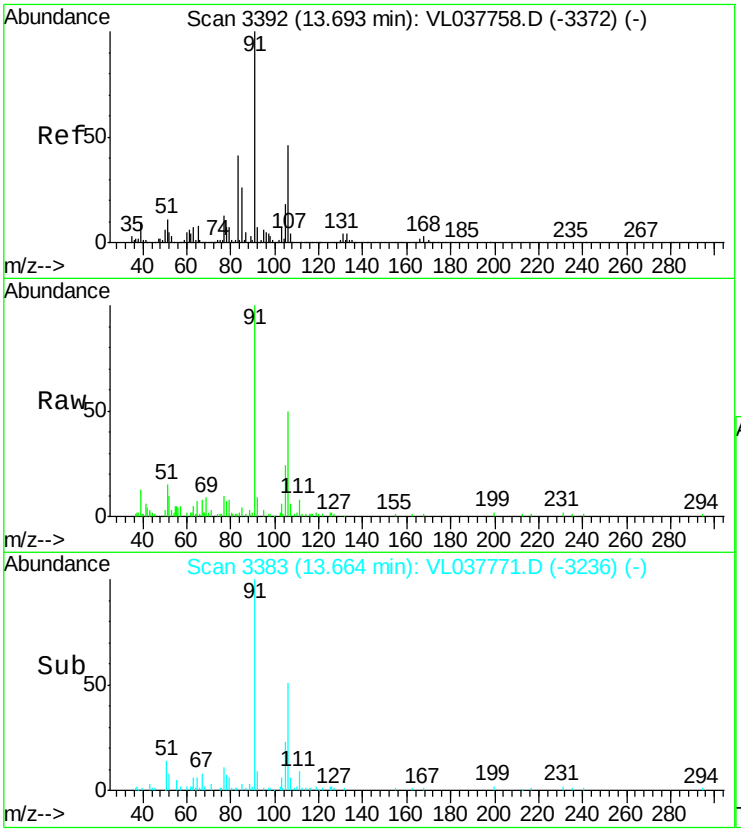


#59
m/p-Xylene
Concen: 0.142 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 91 Resp: 56005

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1#



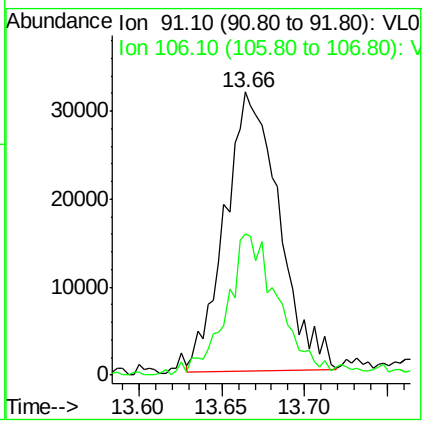


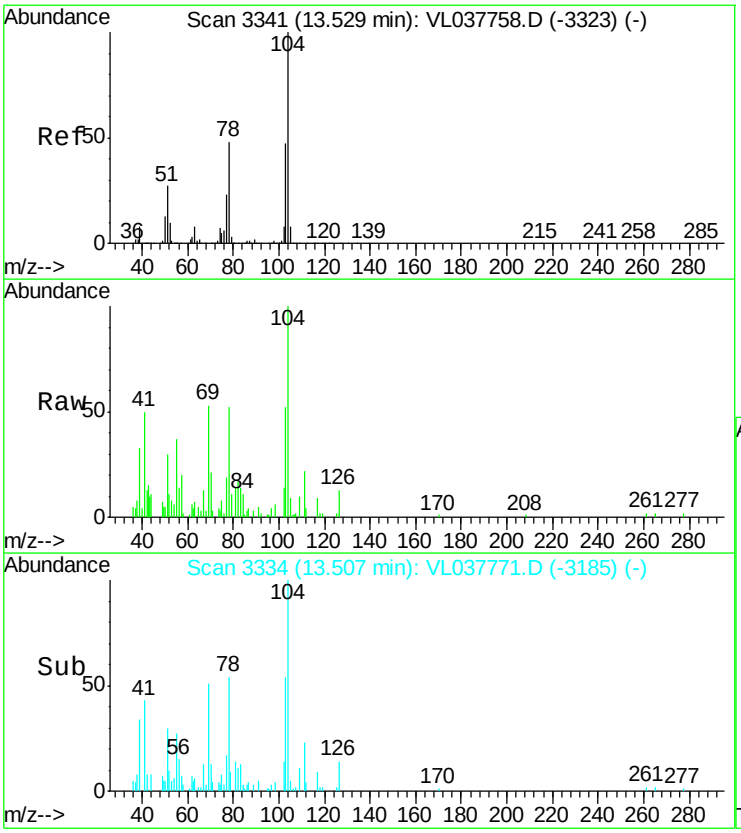
#60
o-Xylene
Concen: 0.191 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 91 Resp: 72269

Ion	Ratio	Lower	Upper
91	100		
106	49.9	23.5	70.5

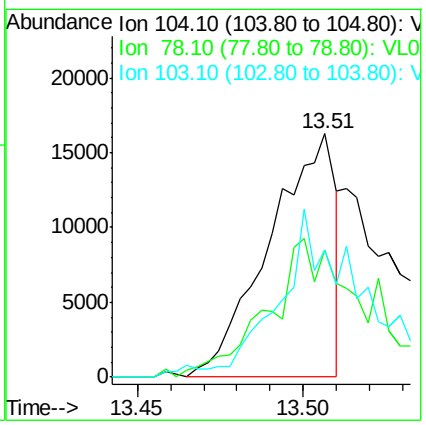


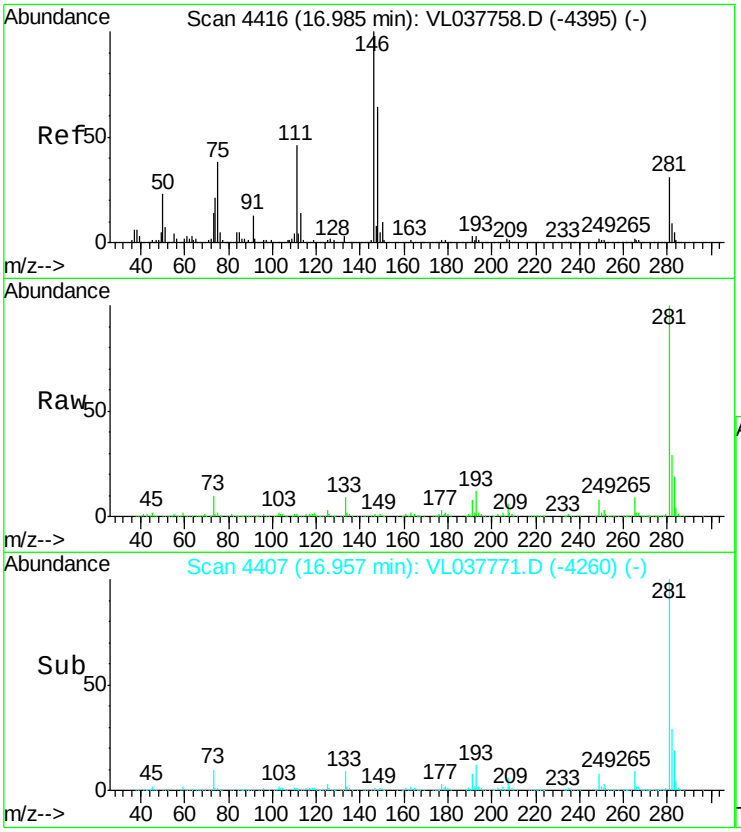


#61
Styrene
Concen: 0.123 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion:104 Resp: 22588

Ion	Ratio	Lower	Upper
104	100		
78	93.4	40.6	61.0#
103	90.1	39.6	59.4#



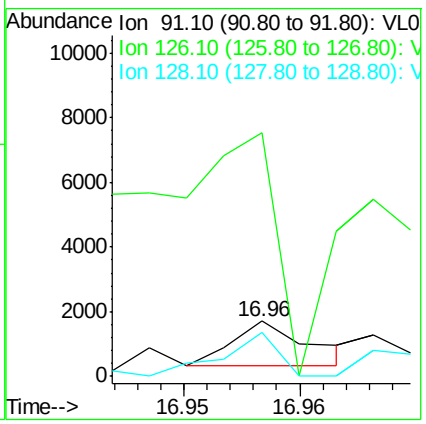


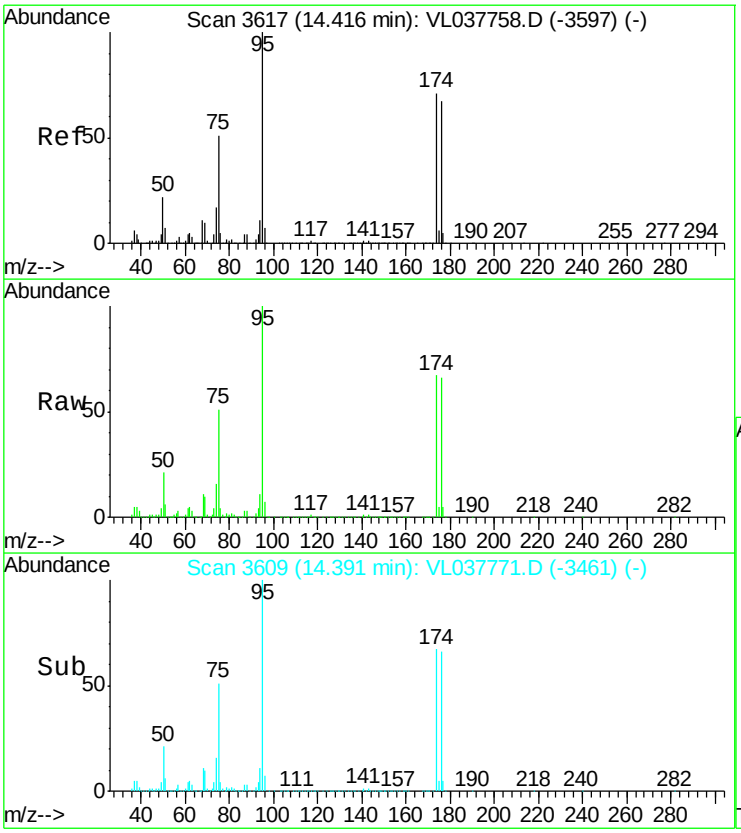
#66
Benzyl Chloride
Concen: 0.028 ppbv
RT: 16.96 min Scan# 4407
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument : MSVOA_L
ClientSampleId : C0P22

Tgt Ion: 91 Resp: 632

Ion	Ratio	Lower	Upper
91	100		
126	0.0	0.0	0.0
128	198.1	5.3	7.9#

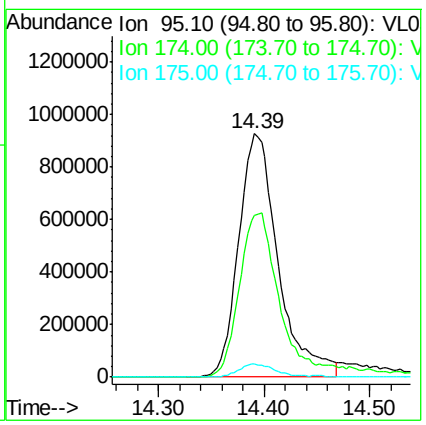


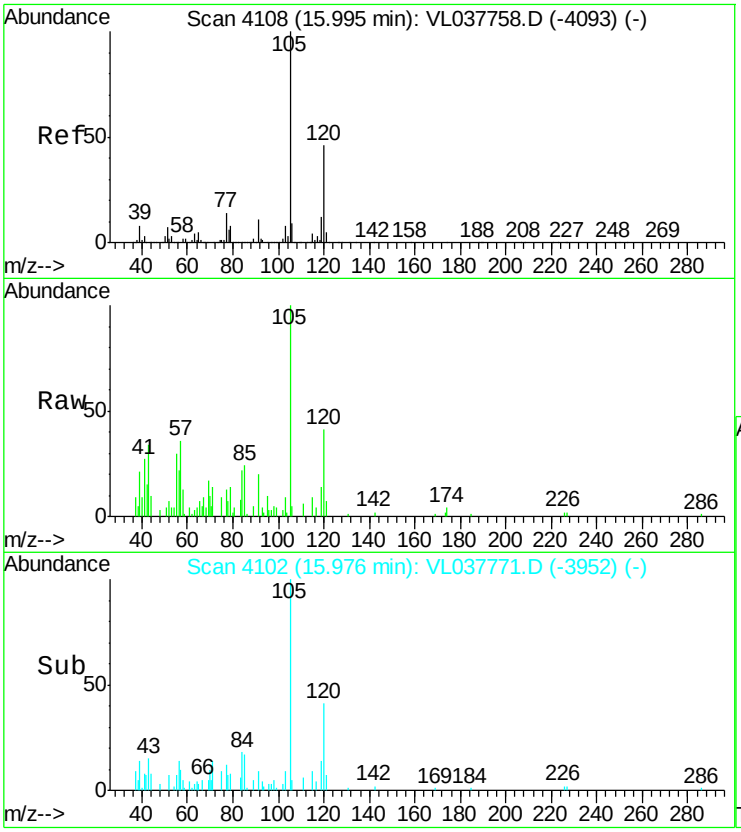


#68
1-Bromo-4-Fluorobenzene
Concen: 10.104 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion: 95 Resp: 2423975

Ion	Ratio	Lower	Upper
95	100		
174	73.7	57.8	86.6
175	5.4	4.7	7.1



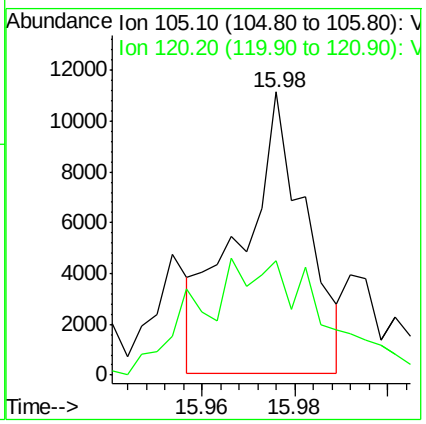


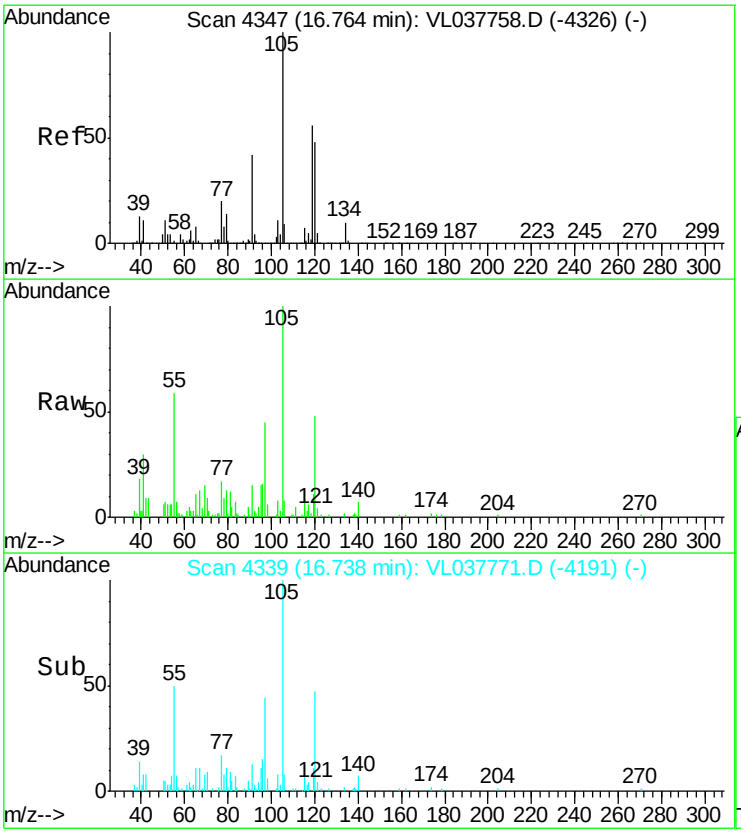
#73
1,3,5-Trimethylbenzene
Concen: 0.028 ppbv
RT: 15.98 min Scan# 4102
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion:105 Resp: 10821

Ion	Ratio	Lower	Upper
105	100		
120	33.9	36.6	54.8#

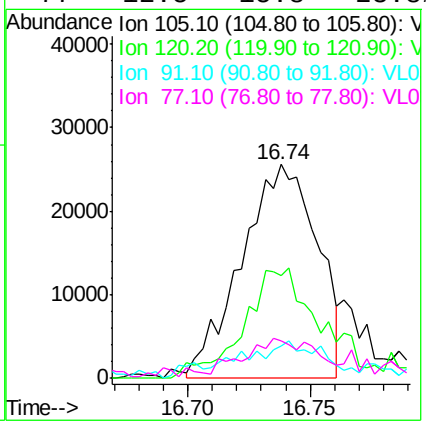


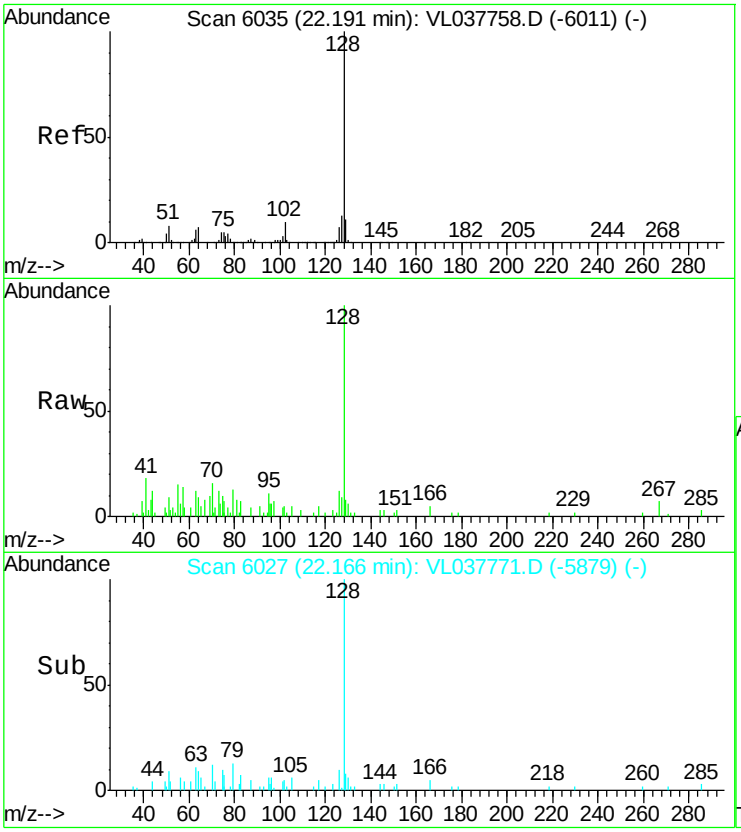


#74
1,2,4-Trimethylbenzene
Concen: 0.134 ppbv
RT: 16.74 min Scan# 4339
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion:105 Resp: 55040

Ion	Ratio	Lower	Upper
105	100		
120	42.2	38.4	57.6
91	10.1	34.2	51.2#
77	12.5	15.8	23.8#



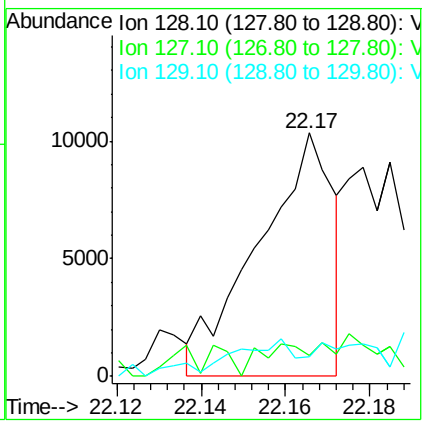


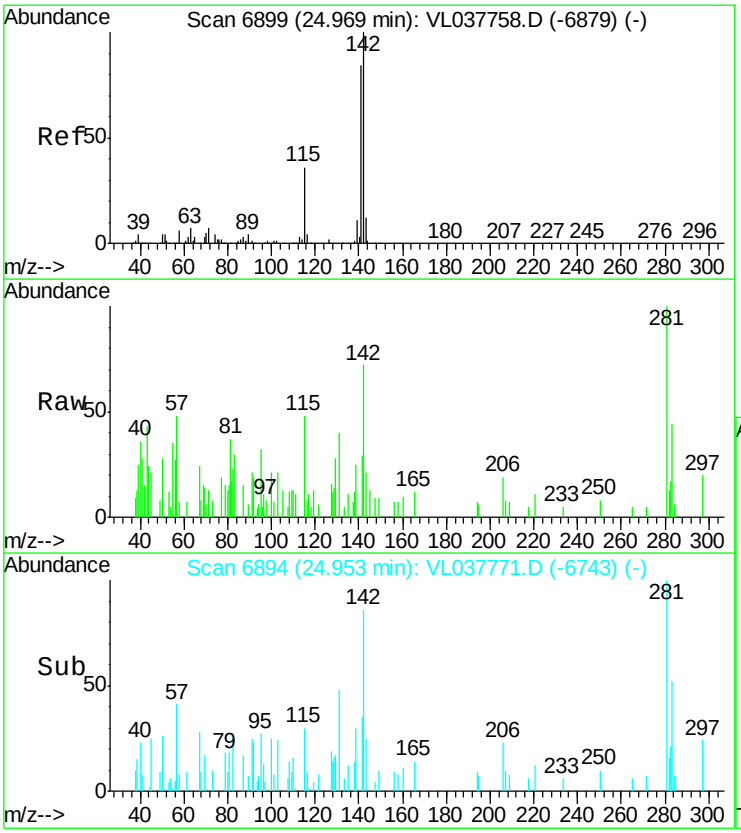
#79
Naphthalene
Concen: 0.050 ppbv
RT: 22.17 min Scan# 6027
Delta R.T. -0.03 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Instrument :
MSVOA_L
ClientSampleId :
C0P22

Tgt Ion:128 Resp: 12632

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	3.1	9.1	13.7#





#80
Naphthalene,2-methyl-
Concen: 0.069 ppbv
RT: 24.95 min Scan# 6894
Delta R.T. -0.02 min
Lab File: VL037771.D
Acq: 5 Oct 2021 13:23

Tgt Ion:142 Resp: 4646

Ion	Ratio	Lower	Upper
142	100		
141	89.0	68.6	102.8
115	86.9	29.0	43.6#