Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
Data File : VL037840.D
Acq On : 12 Oct 2021 21:52
Operator : SY/AP
Sample : M4079-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P14

Quant Time: Oct 14 01:06:35 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	5.66	49	1322571	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.17	114	3773687	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.08	117	3249559	10.00	ppbv		-0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.40	95	2337245	10.29	ppbv		-0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.05	85	39617	0.188	ppbv		90
3) Chlorodifluoromethane	2.96	51	79916	0.314	ppbv	#	78
4) Chloromethane	3.13	50	37508	0.403	ppbv	#	87
9) Propene	3.01	41	180636	1.932	ppbv		95
10) Heptane	8.11	43	30067	0.142	ppbv	#	31
11) Trichlorofluoromethane	3.95	101	38397	0.204	ppbv		87
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5402	0.038	ppbv	#	48
13) Ethanol	3.60	45	389775	50.972	ppbv		87
15) Acetone	3.84	43	9958768	83.879	ppbv		93
16) 1,3-Butadiene	3.31	39	542789	6.283	ppbv	#	18
17) tert-Butyl alcohol	4.29	59	143925	1.177	ppbv	#	93
19) Isopropyl Alcohol	3.97	45	70166	0.950	ppbv	#	96
20) Methylene Chloride	4.34	84	773498	12.894	ppbv		98
23) Vinyl Acetate	5.06	43	124652	0.701	ppbv	#	83
25) Ethyl Acetate	5.68	43	536142	1.609	ppbv	#	86
26) Hexane	5.68	57	607781	3.705	ppbv	#	50
27) Carbon Disulfide	4.54	76	86797	0.597	ppbv		96
29) Chloroform	5.74	83	192117	0.819	ppbv		91
30) Cyclohexane	7.12	84	6152	0.044	ppbv	#	28
34) 2-Butanone	5.24	43	2481897	16.291	ppbv		98
35) Carbon Tetrachloride	7.01	117	4694	0.022	ppbv	#	73
36) Benzene	6.89	78	30853	0.096	ppbv		96
39) 1,2-Dichloropropane	7.17	63	884024	7.292	ppbv	#	28
41) Tetrahydrofuran	5.84	42	2875	0.039	ppbv	#	58
51) 2-Hexanone	10.13	43	260595	2.943	ppbv	#	100
52) Tetrachloroethene	11.22	164	183518	1.463	ppbv		97
53) Toluene	9.80	91	146275	0.409	ppbv		99
58) Ethyl Benzene	12.70	91	158829	0.364	ppbv		93
59) m/p-Xylene	12.95	91	576367	1.539	ppbv		96
60) o-Xylene	13.68	91	200700	0.559	ppbv		100
61) Styrene	13.51	104	3686	0.021	ppbv	#	27
72) 4-Ethyltoluene	15.82	105	10125	0.025	ppbv	#	39
73) 1,3,5-Trimethylbenzene	15.98	105	10544	0.028	ppbv		97
74) 1,2,4-Trimethylbenzene	16.74	105	31151	0.080	ppbv	#	76
75) 1,3-Dichlorobenzene	16.98	146	9161	0.038	ppbv	#	34
79) Naphthalene	22.17	128	6306	0.026	ppbv	#	69
80) Naphthalene,2-methyl-	24.97	142	3562	0.056	ppbv	#	89

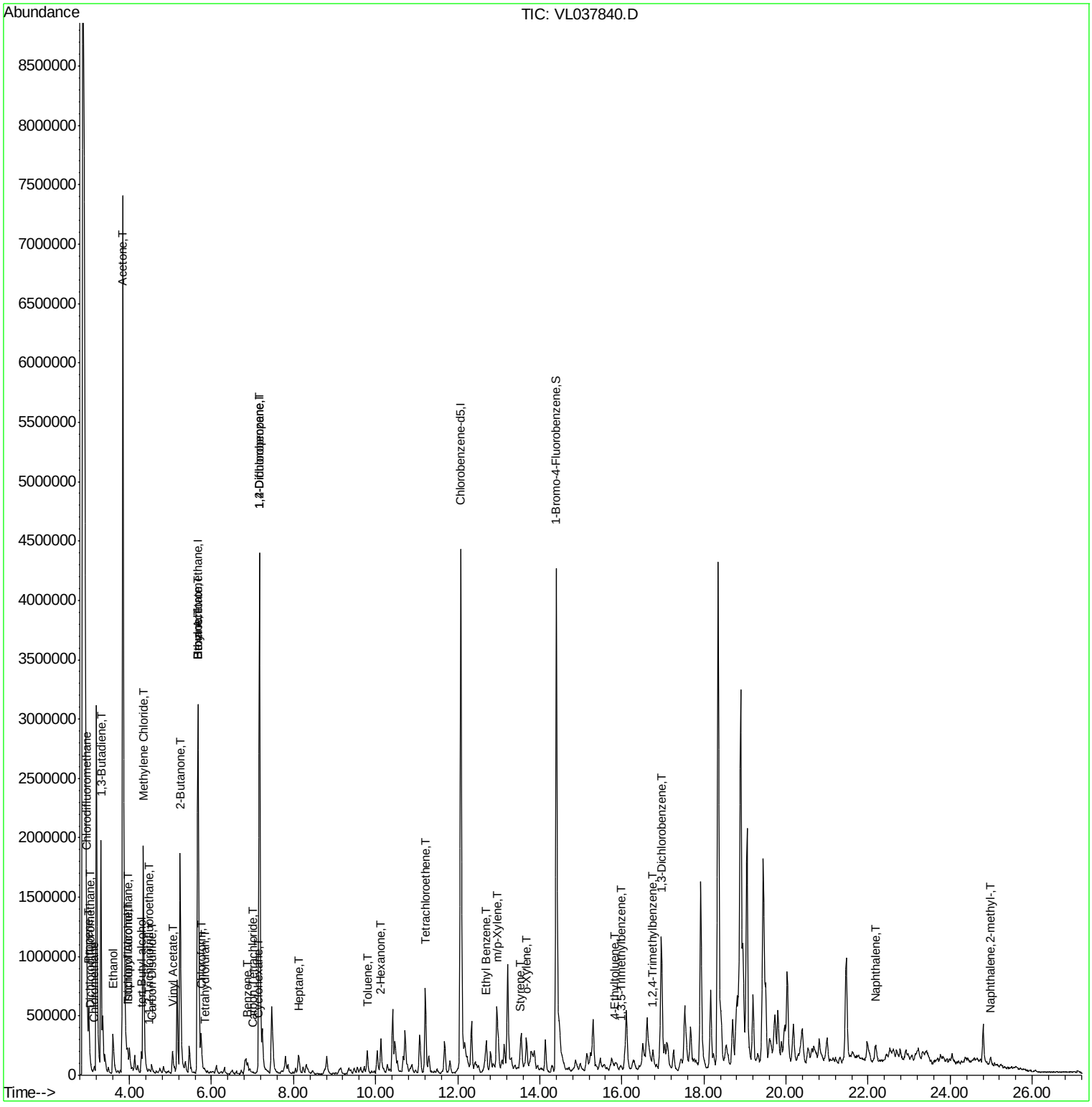
(#) = qualifier out of range (m) = manual integration (+) = signals summed

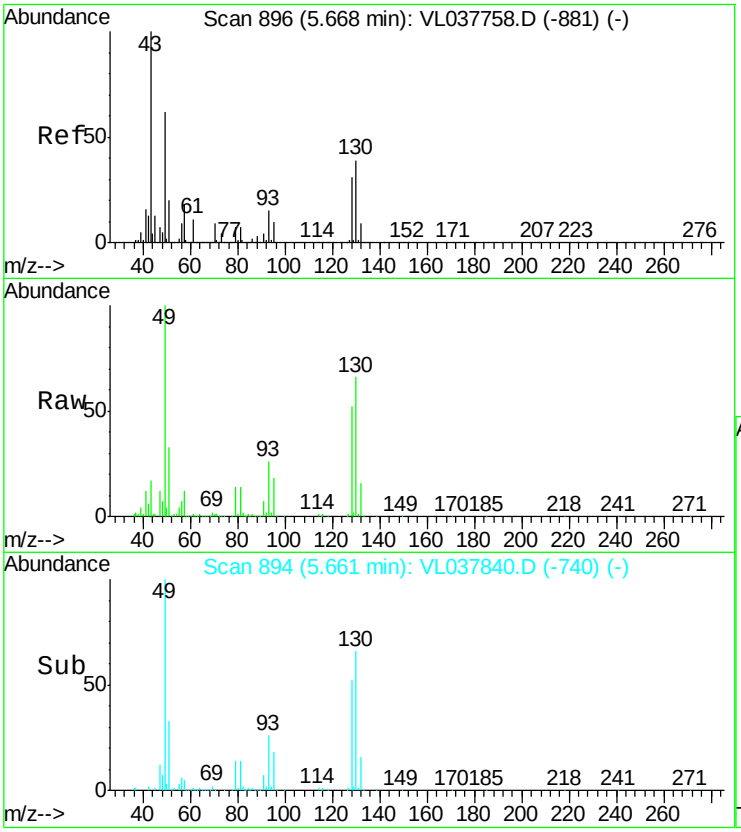
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
Data File : VL037840.D
Acq On : 12 Oct 2021 21:52
Operator : SY/AP
Sample : M4079-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Quant Time: Oct 14 01:06:35 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



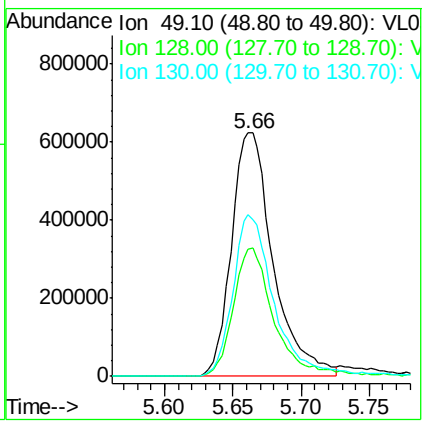


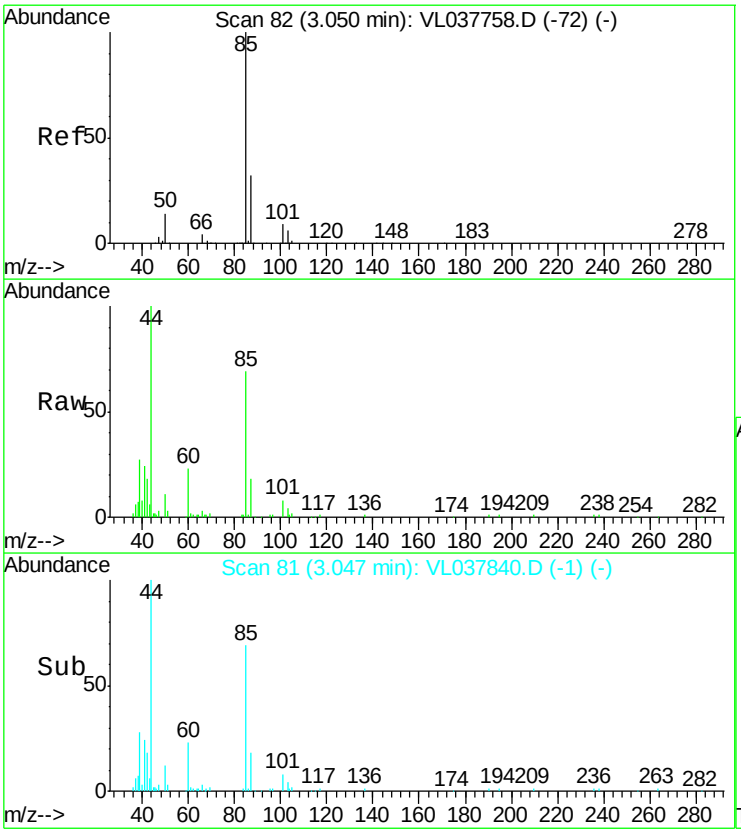
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 49 Resp: 1322571

Ion	Ratio	Lower	Upper
49	100		
128	52.3	27.1	81.3
130	66.6	33.2	99.6

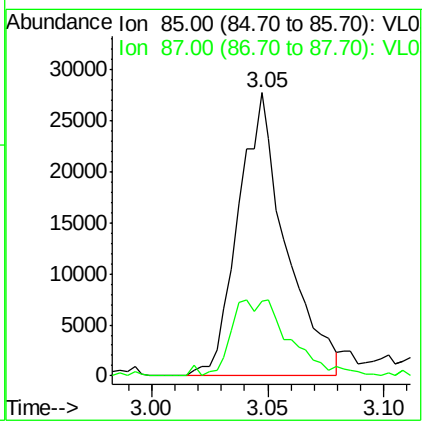


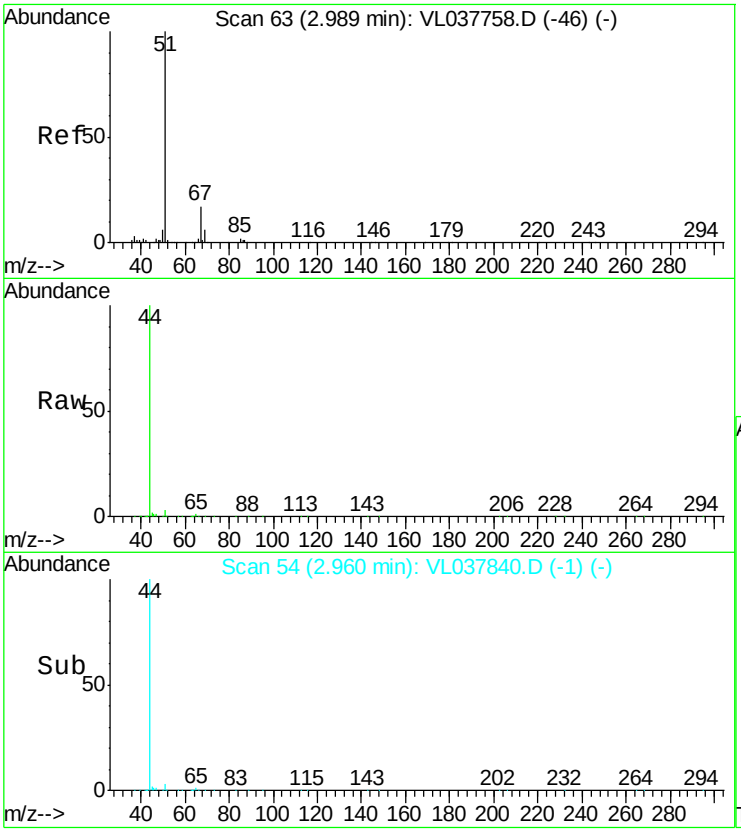


#2
Dichlorodifluoromethane
Concen: 0.188 ppbv
RT: 3.05 min Scan# 81
Delta R.T. -0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 85 Resp: 39617

Ion	Ratio	Lower	Upper
85	100		
87	26.3	25.7	38.5



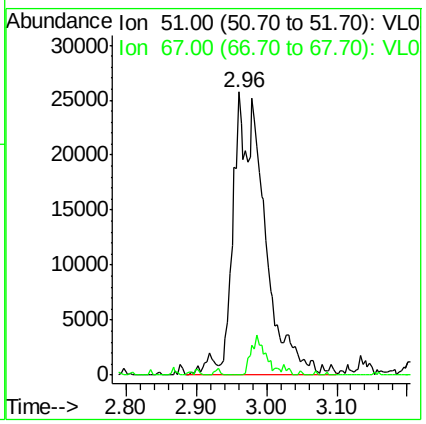


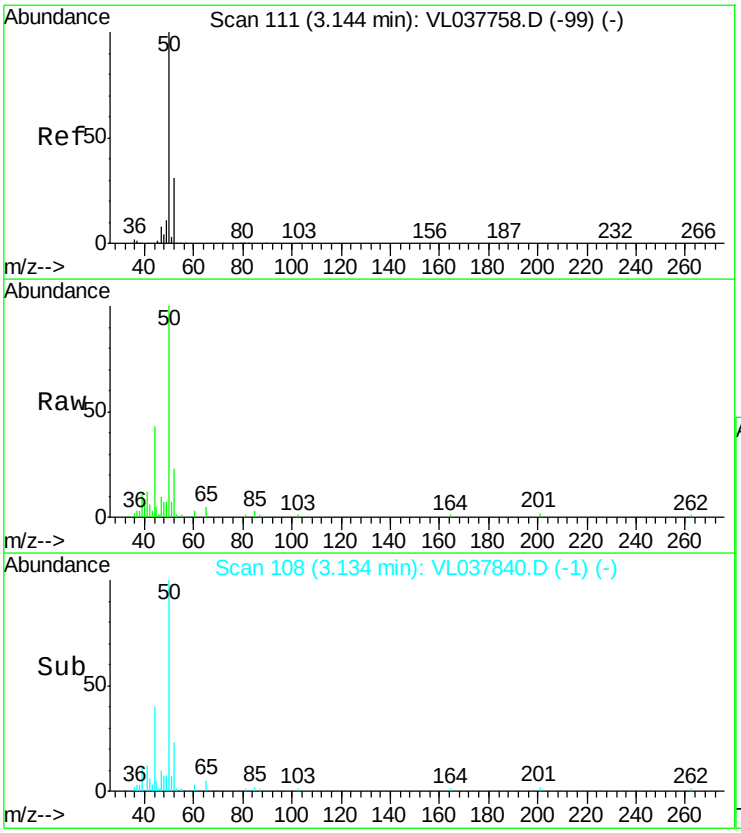
#3
Chlorodifluoromethane
Concen: 0.314 ppbv
RT: 2.96
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 51 Resp: 79916

Ion	Ratio	Lower	Upper
51	100		
67	7.4	13.5	20.3#

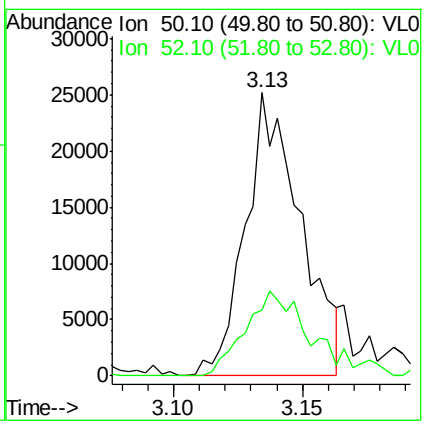


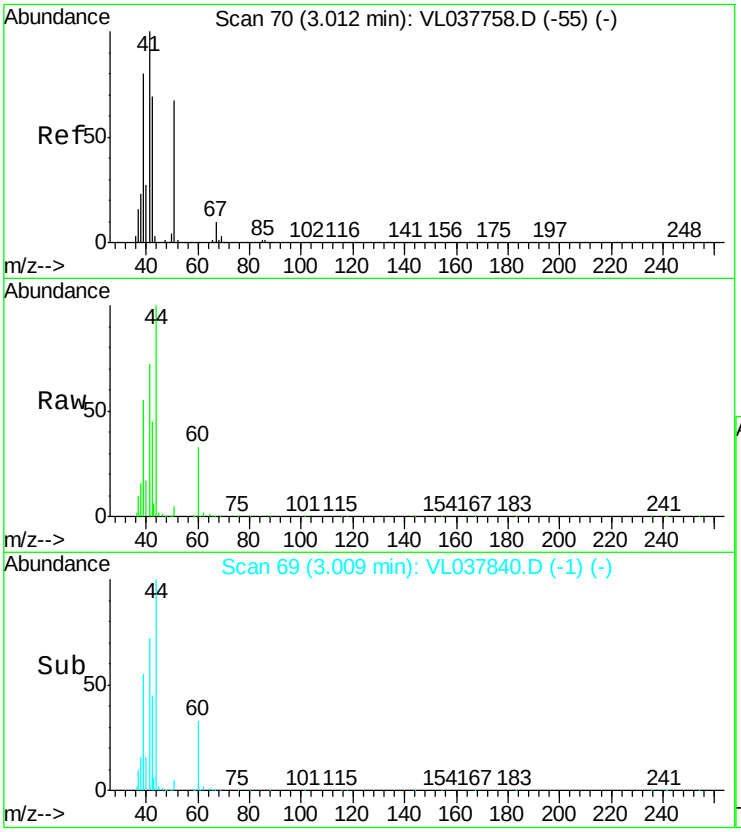


#4
Chloromethane
Concen: 0.403 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 50 Resp: 37508

Ion	Ratio	Lower	Upper
50	100		
52	23.4	24.4	36.6#



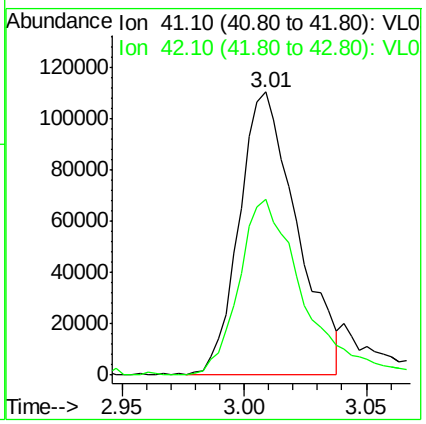


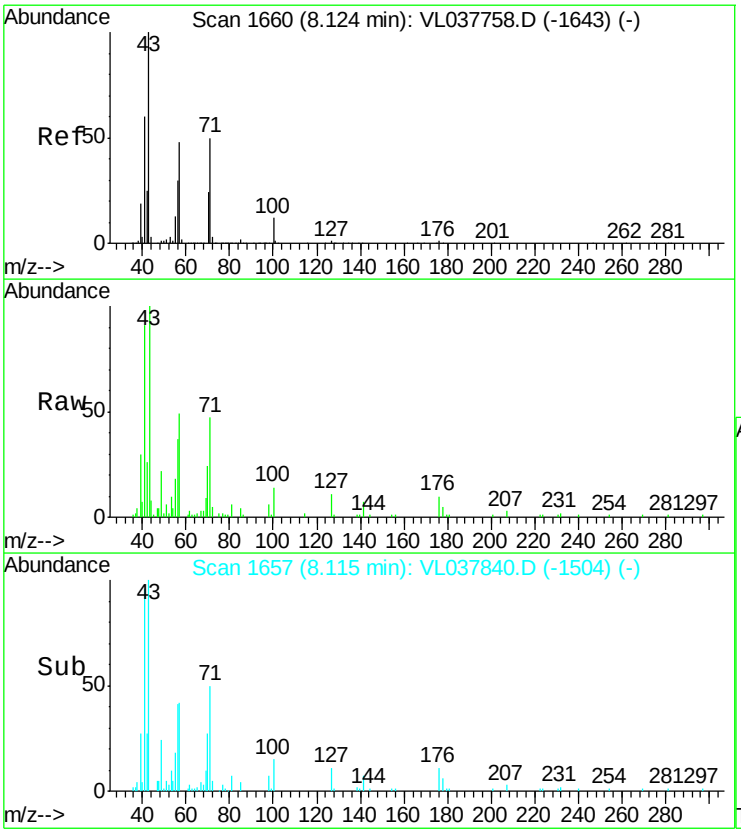
#9
Propene
Concen: 1.932 ppbv
RT: 3.01
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 41 Resp: 180636

Ion	Ratio	Lower	Upper
41	100		
42	71.4	54.2	81.2

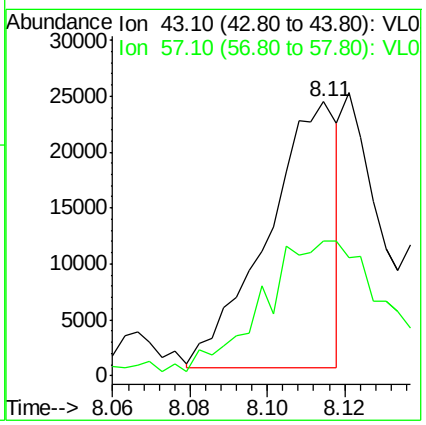


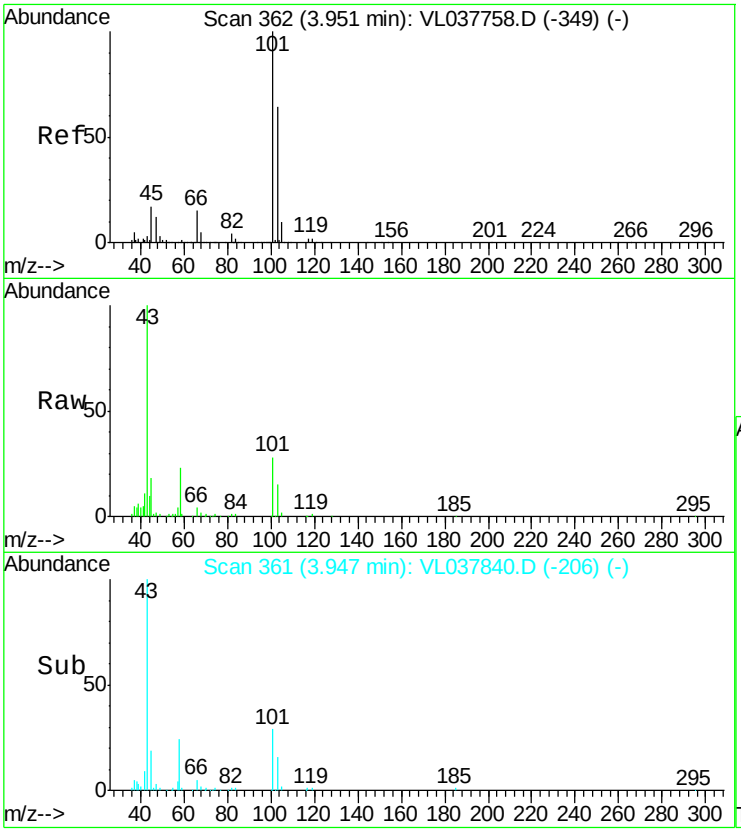


#10
Heptane
Concen: 0.142 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 30067

Ion	Ratio	Lower	Upper
43	100		
57	97.6	40.0	60.0#



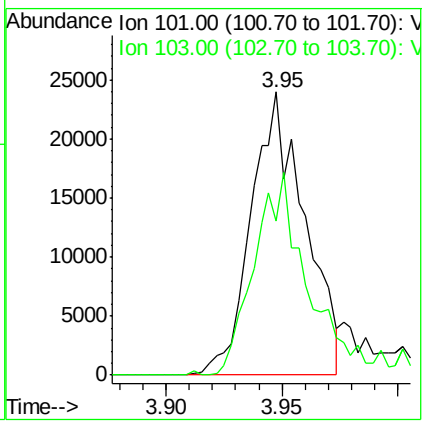


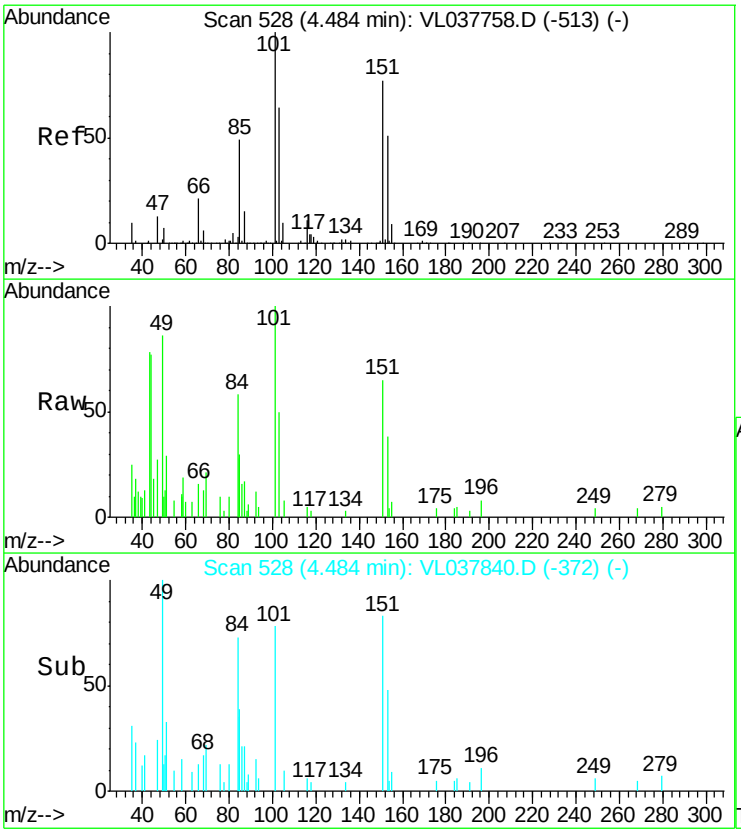
#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 3.95
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:101 Resp: 38397

Ion	Ratio	Lower	Upper
101	100		
103	54.3	51.5	77.3

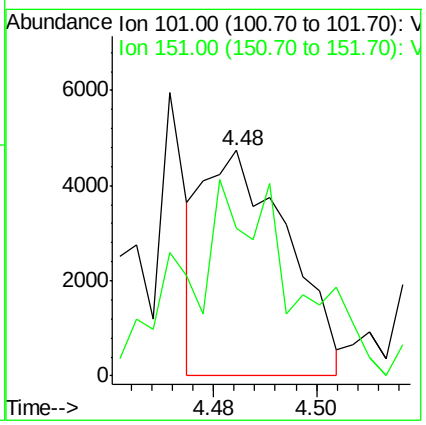


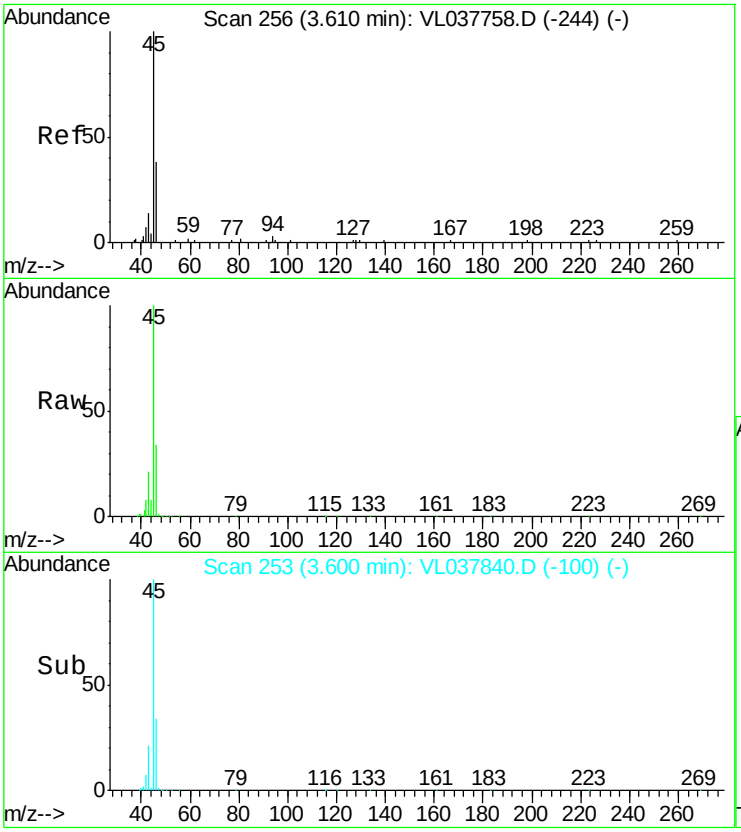


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.038 ppbv
RT: 4.48 min Scan# 528
Delta R.T. 0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:101 Resp: 5402

Ion	Ratio	Lower	Upper
101	100		
151	124.5	62.9	94.3#



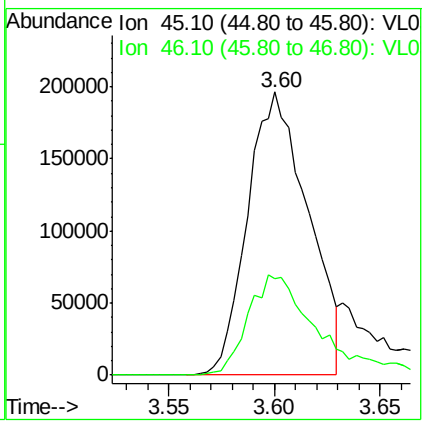


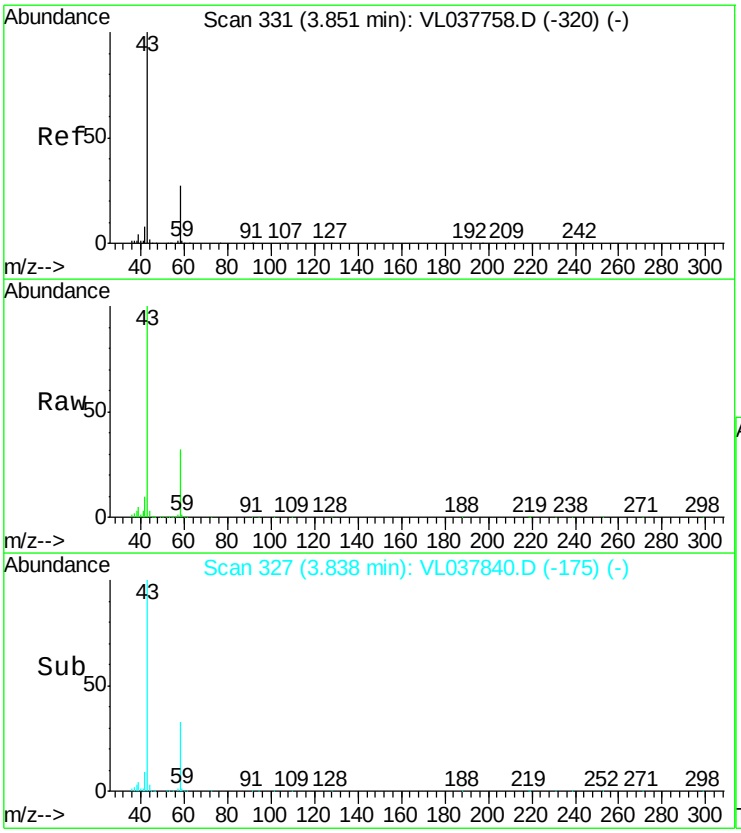
#13
Ethanol
Concen: 50.972 ppbv
RT: 3.60
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 45 Resp: 389775

Ion	Ratio	Lower	Upper
45	100		
46	41.6	20.2	81.0

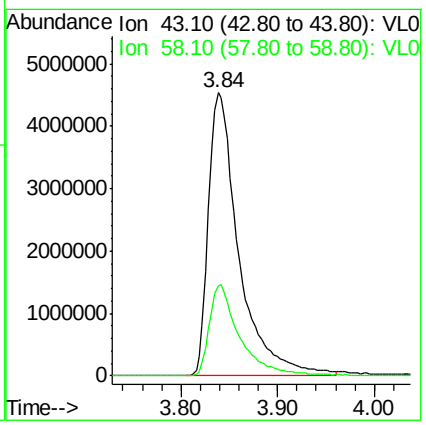


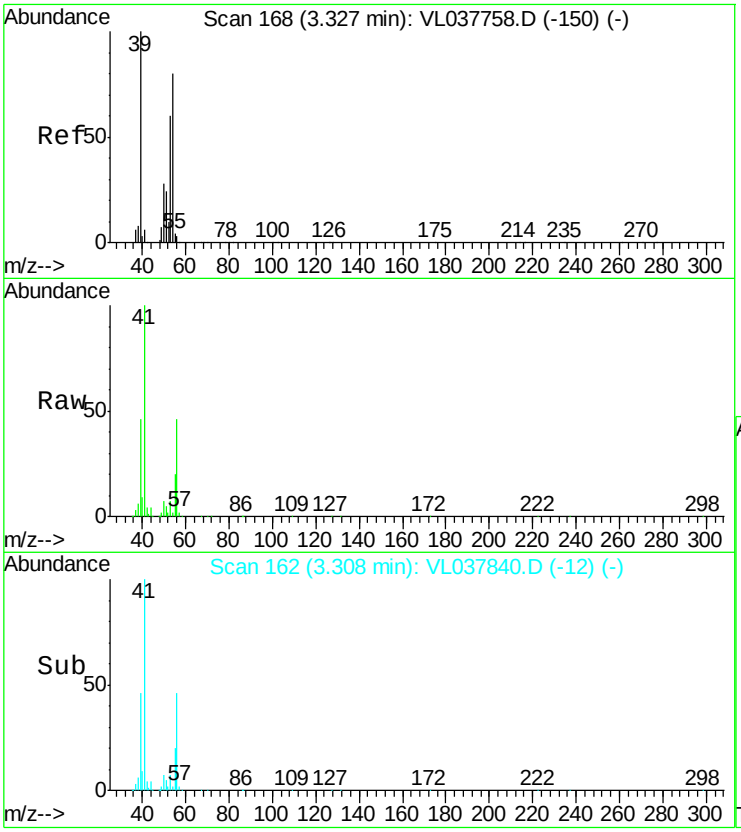


#15
Acetone
Concen: 83.879 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 9958768

Ion	Ratio	Lower	Upper
43	100		
58	32.8	23.0	34.6



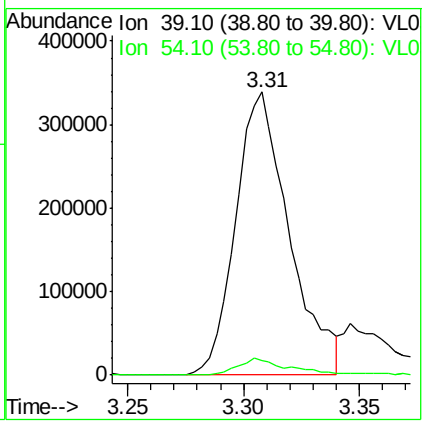


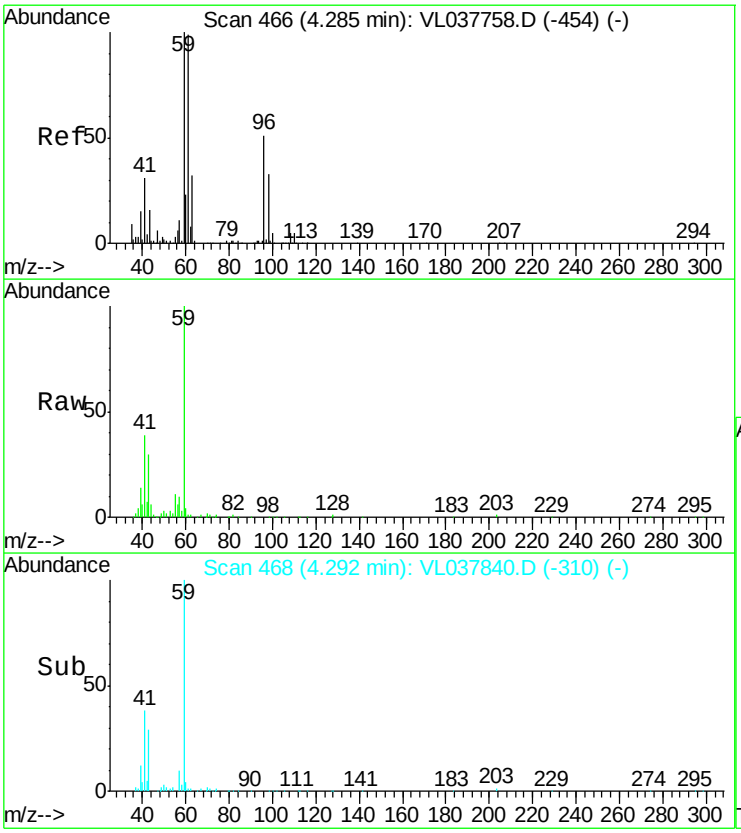
#16
1,3-Butadiene
Concen: 6.283 ppbv
RT: 3.31
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 39 Resp: 542789

Ion	Ratio	Lower	Upper
39	100		
54	6.5	61.7	92.5#

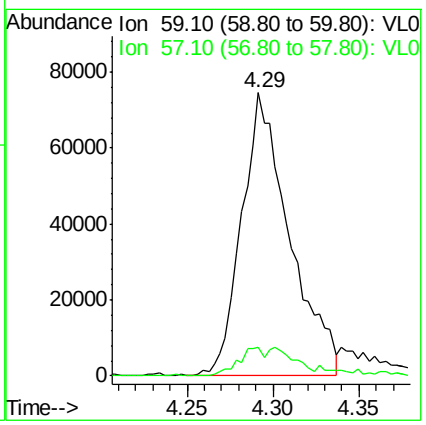


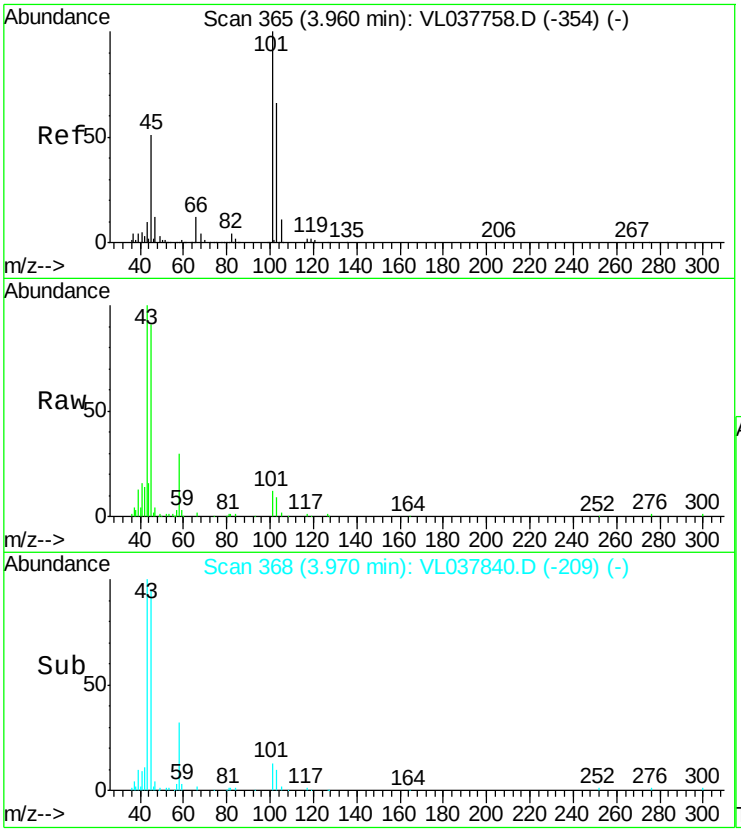


#17
tert-Butyl alcohol
Concen: 1.177 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 59 Resp: 143925

Ion	Ratio	Lower	Upper
59	100		
57	13.5	8.6	13.0#



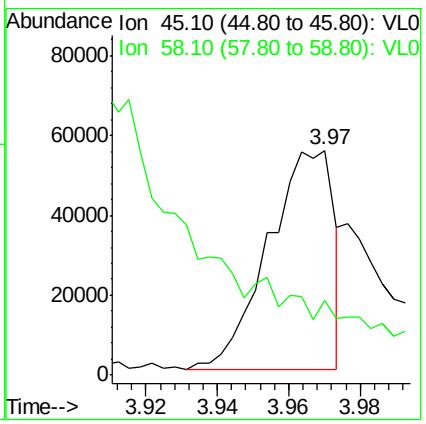


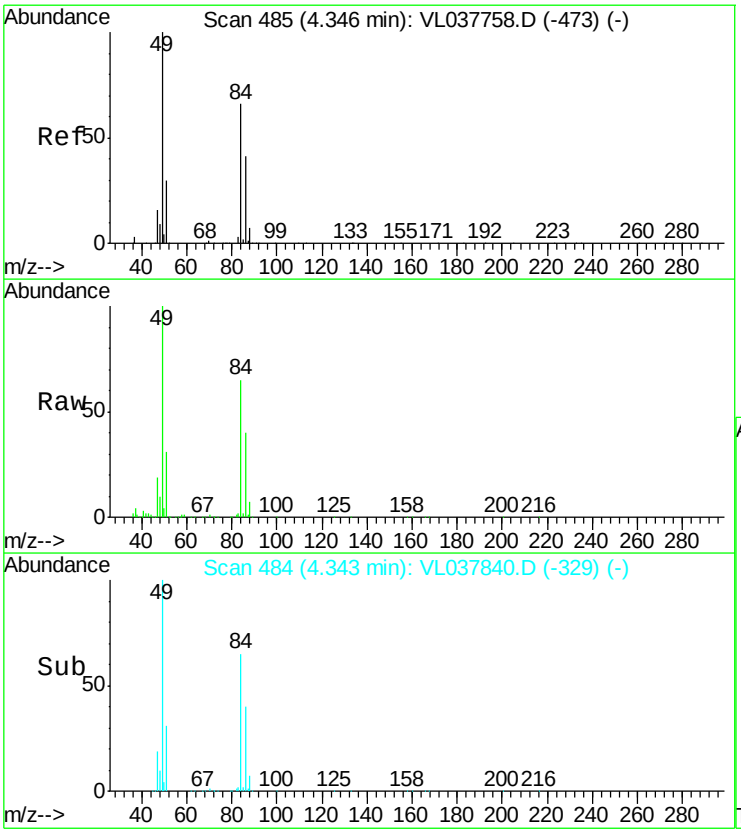
#19
Isopropyl Alcohol
Concen: 0.950 ppbv
RT: 3.97
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 45 Resp: 70166

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.1	1.7#

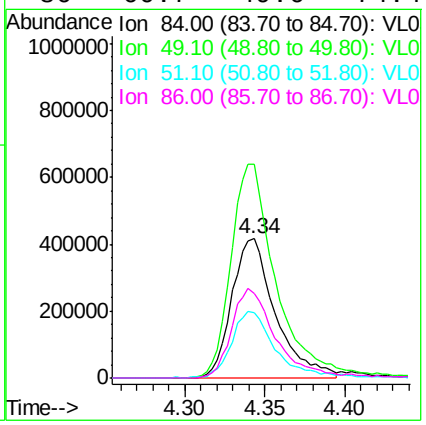


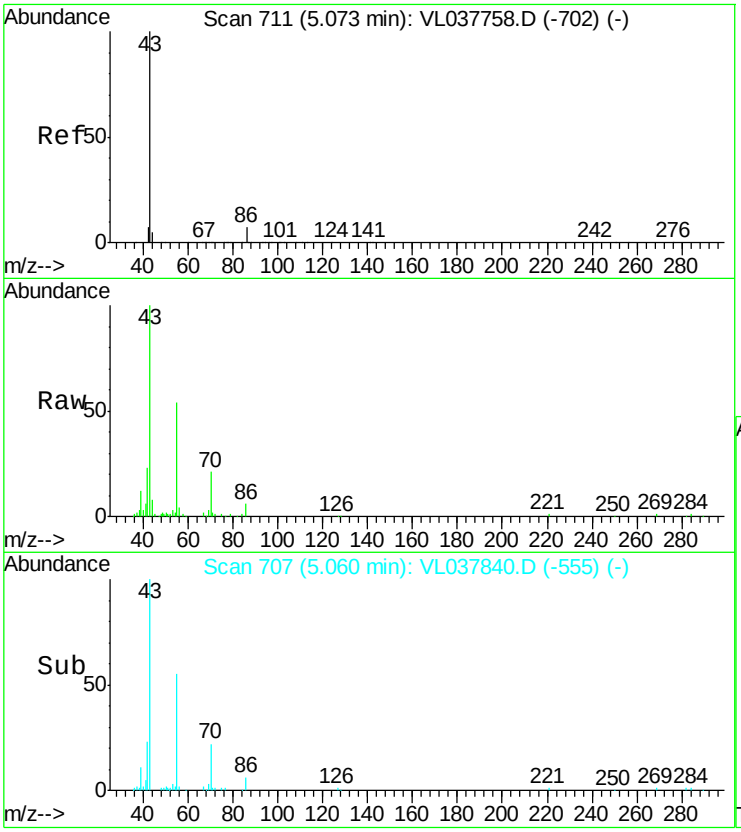


#20
Methylene Chloride
Concen: 12.894 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 84 Resp: 773498

Ion	Ratio	Lower	Upper
84	100		
49	153.1	120.7	181.1
51	46.9	36.2	54.4
86	60.7	49.6	74.4



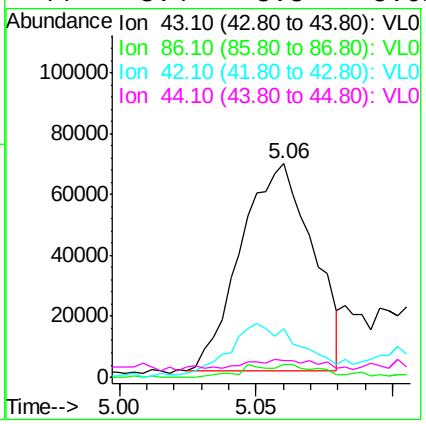


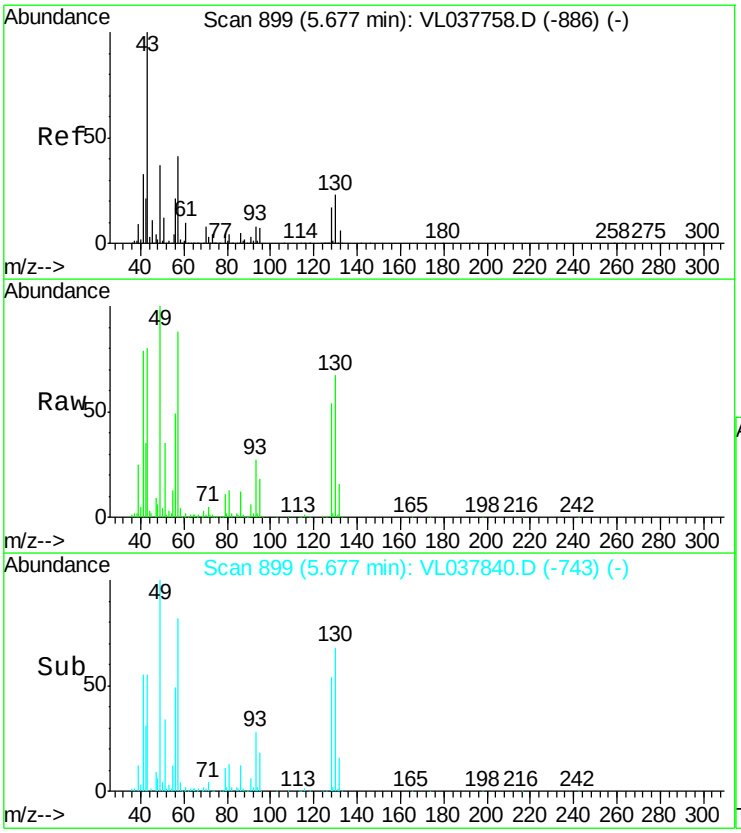
#23
Vinyl Acetate
Concen: 0.701 ppbv
RT: 5.06
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument : MSVOA_L
ClientSampleId : C0P14

Tgt Ion: 43 Resp: 124652

Ion	Ratio	Lower	Upper
43	100		
86	6.0	5.0	7.4
42	22.2	7.4	11.0#
44	3.4	3.8	5.6#

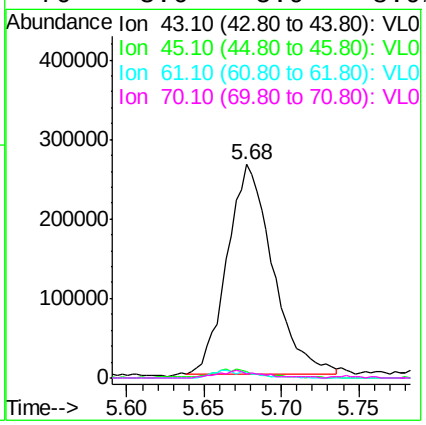


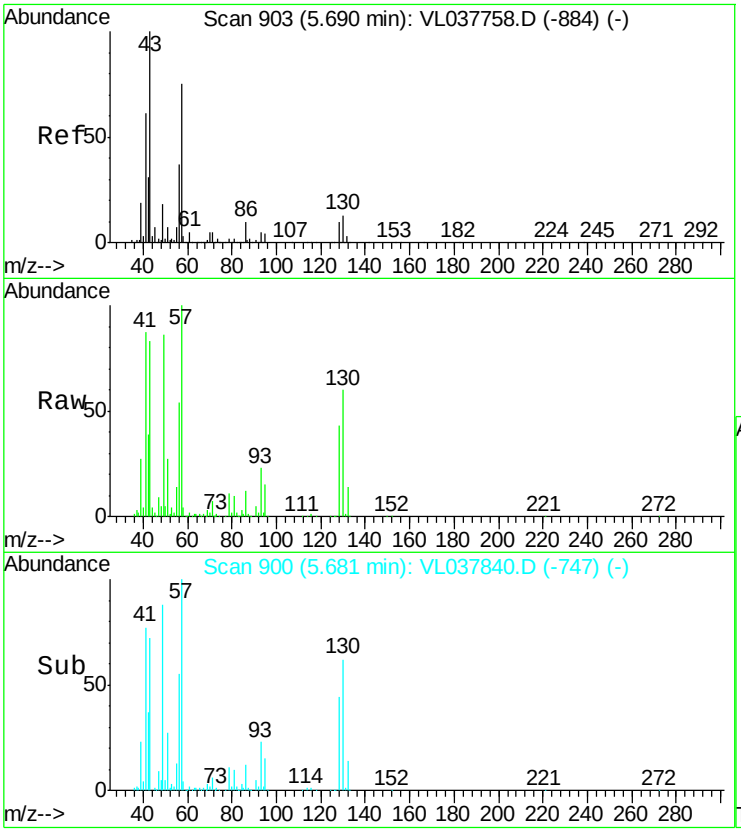


#25
Ethyl Acetate
Concen: 1.609 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 536142

Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.1	12.1#
61	3.5	7.5	11.3#
70	3.6	5.9	8.9#



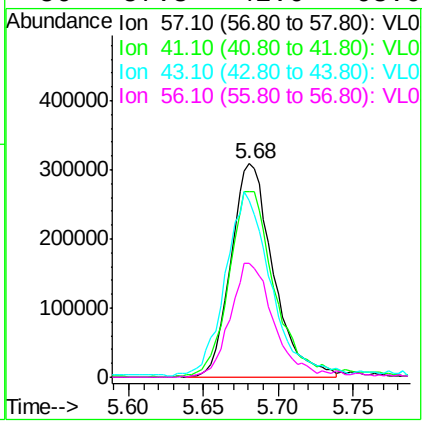


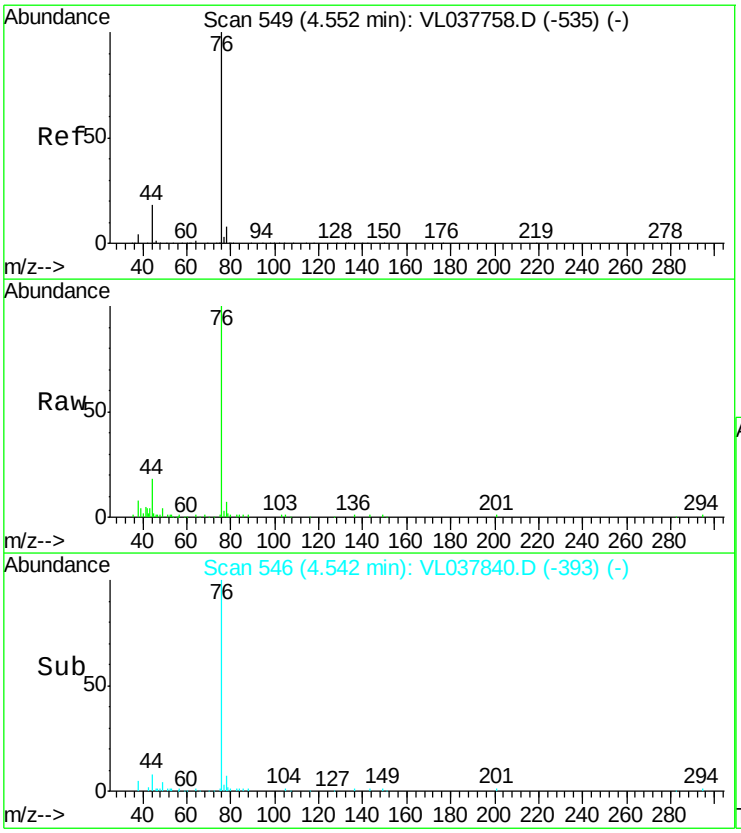
#26
Hexane
Concen: 3.705 ppbv
RT: 5.68
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 57 Resp: 607781

Ion	Ratio	Lower	Upper
57	100		
41	96.0	69.6	104.4
43	92.1	171.4	257.0#
56	57.3	42.0	63.0

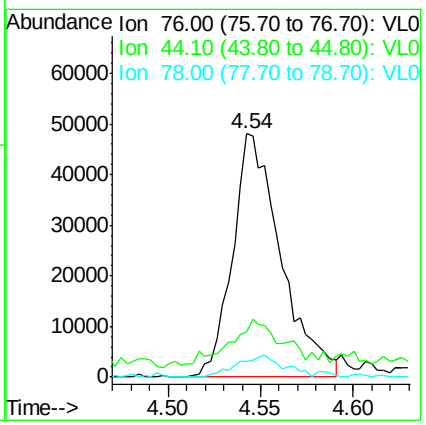


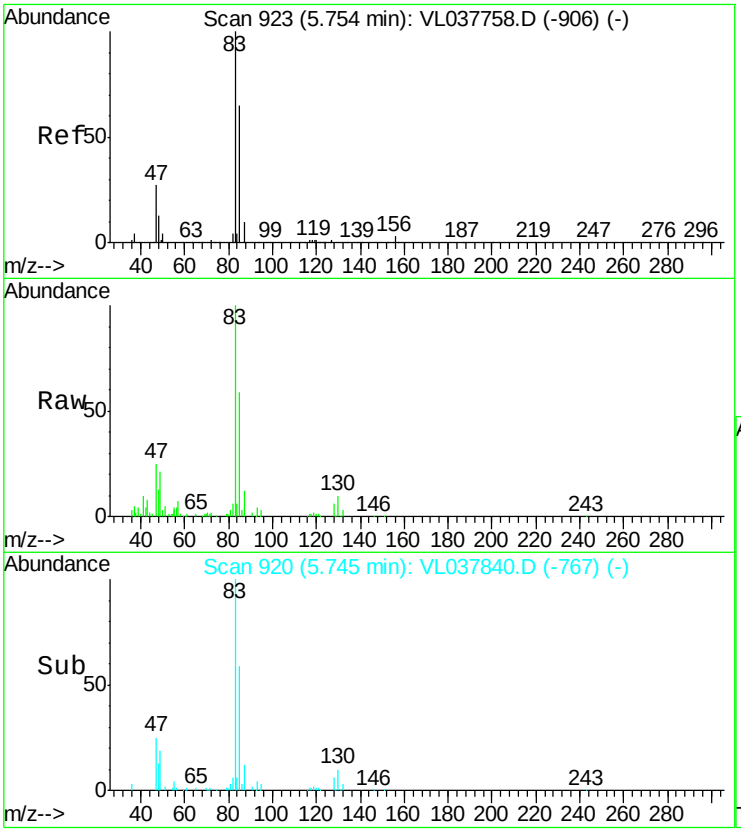


#27
Carbon Disulfide
Concen: 0.597 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 76 Resp: 86797

Ion	Ratio	Lower	Upper
76	100		
44	20.3	14.3	21.5
78	10.0	7.8	11.6



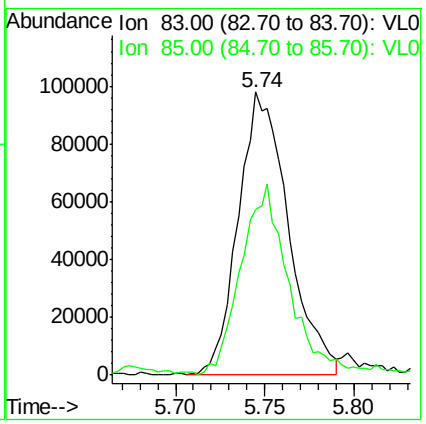


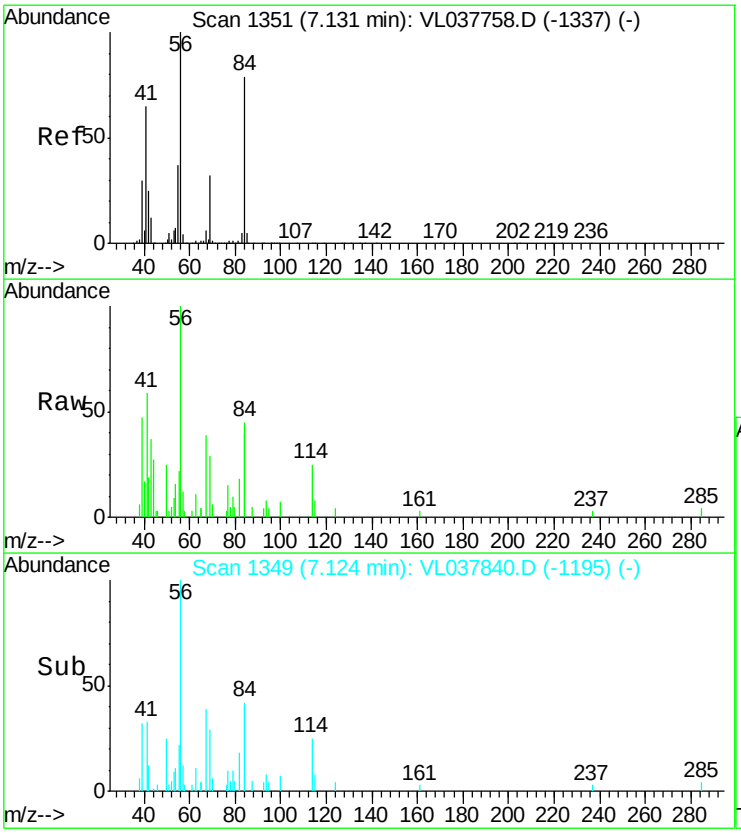
#29
Chloroform
Concen: 0.819 ppbv
RT: 5.74
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 83 Resp: 192117

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.8	77.8

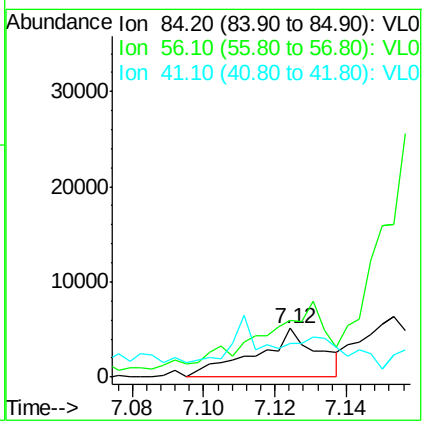


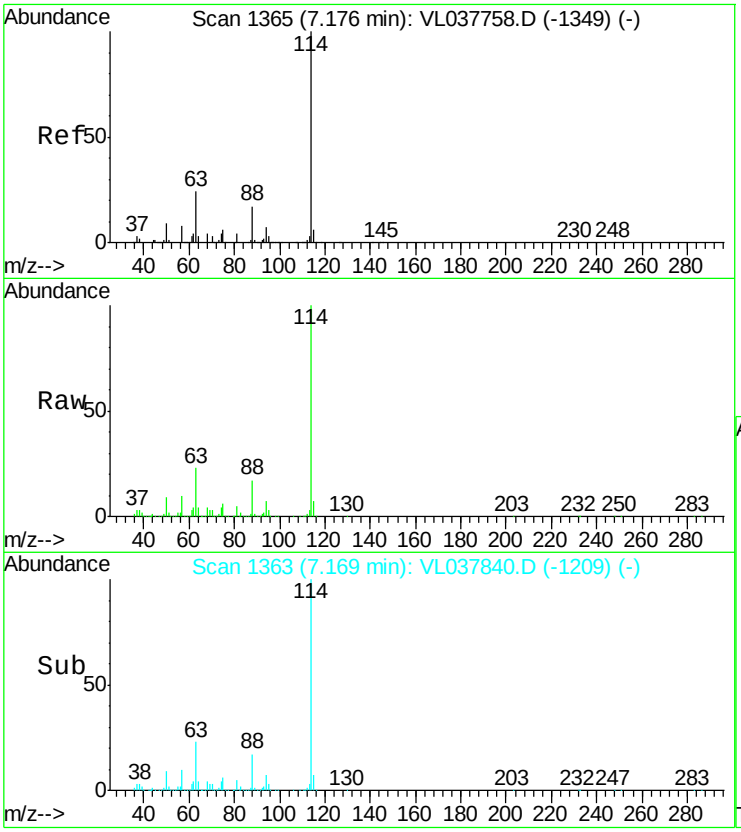


#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 84 Resp: 6152

Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.0	169.4#
41	85.3	69.1	103.7



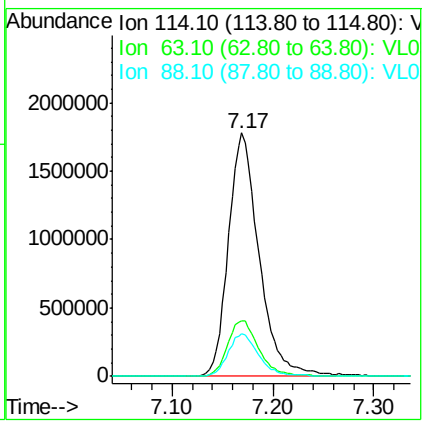


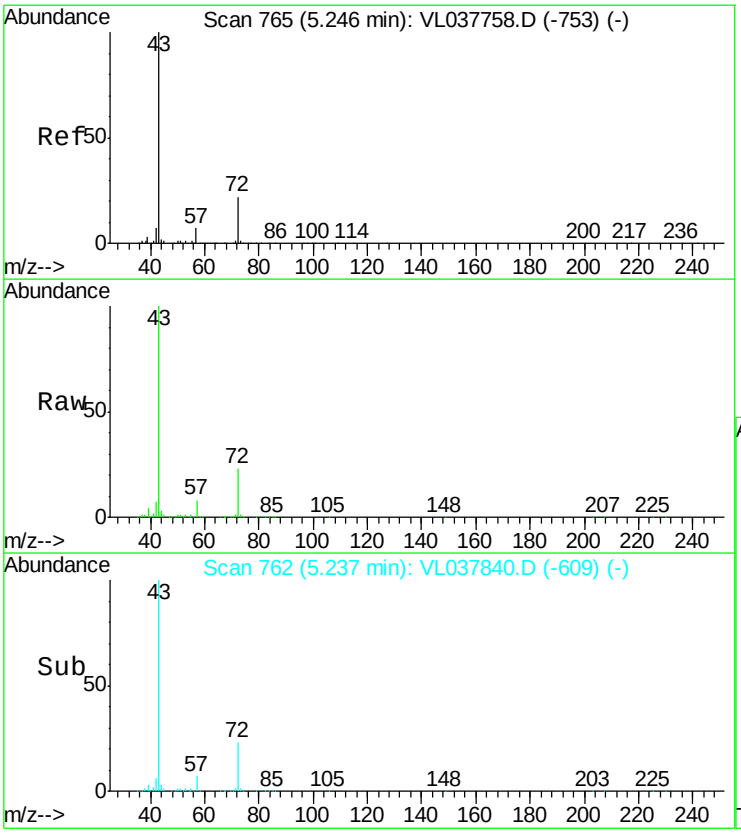
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:114 Resp: 3773687

Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.2
88	17.6	14.4	21.6

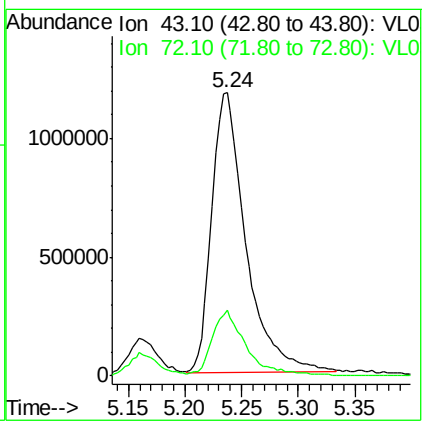


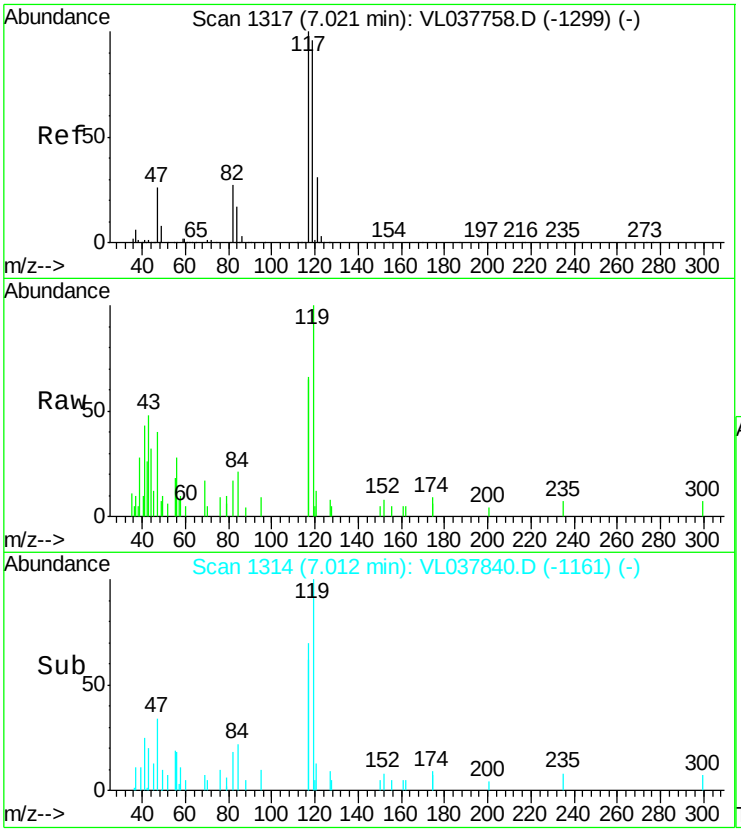


#34
2-Butanone
Concen: 16.291 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 43 Resp: 2481897

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.2	27.2



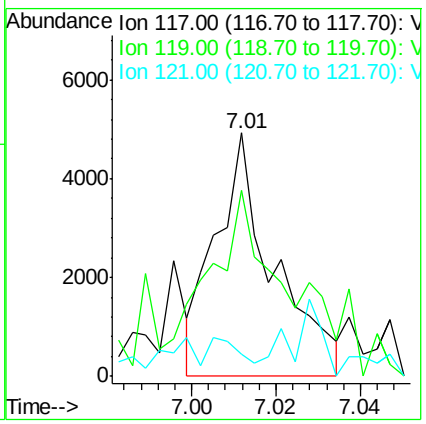


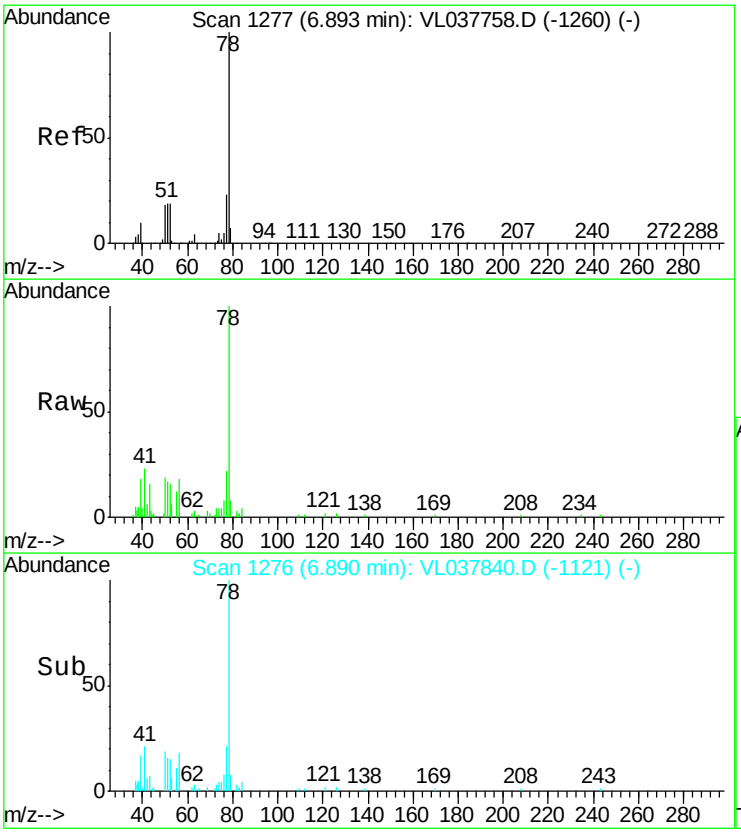
#35
Carbon Tetrachloride
Concen: 0.022 ppbv
RT: 7.01
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:117 Resp: 4694

Ion	Ratio	Lower	Upper
117	100		
119	71.9	76.5	114.7#
121	10.8	24.9	37.3#

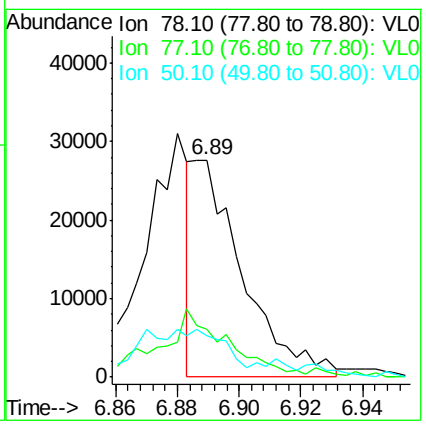


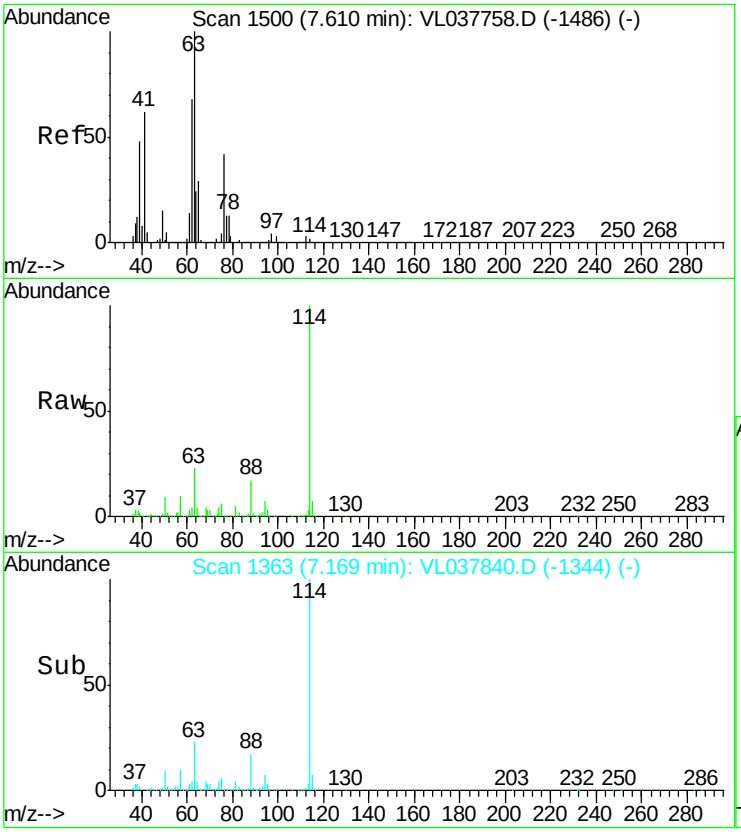


#36
Benzene
Concen: 0.096 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 78 Resp: 30853

Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.8	28.2
50	16.6	14.7	22.1



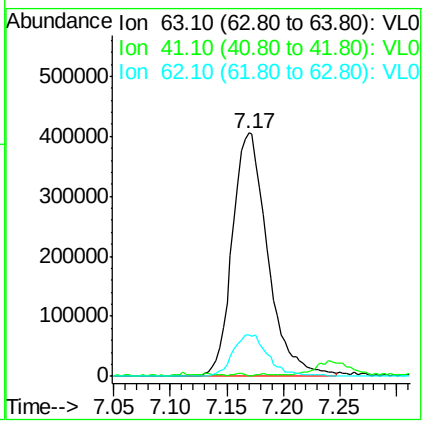


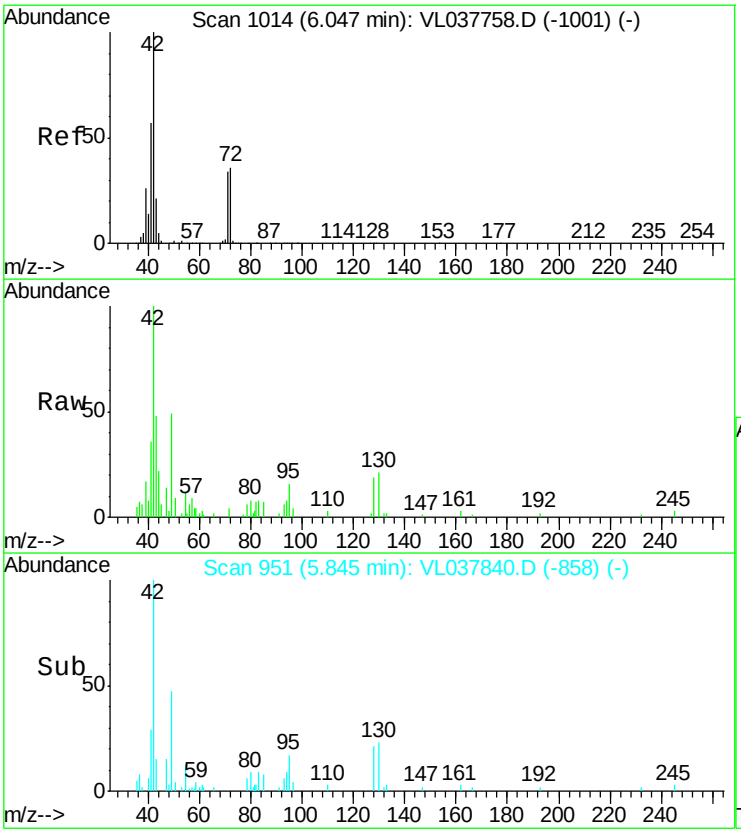
#39
1,2-Dichloropropane
Concen: 7.292 ppbv
RT: 7.17
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 63 Resp: 884024

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	16.7	54.6	82.0#

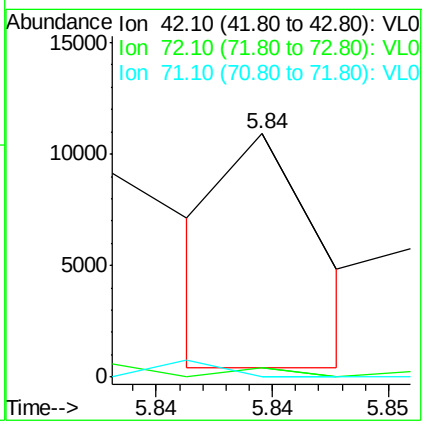


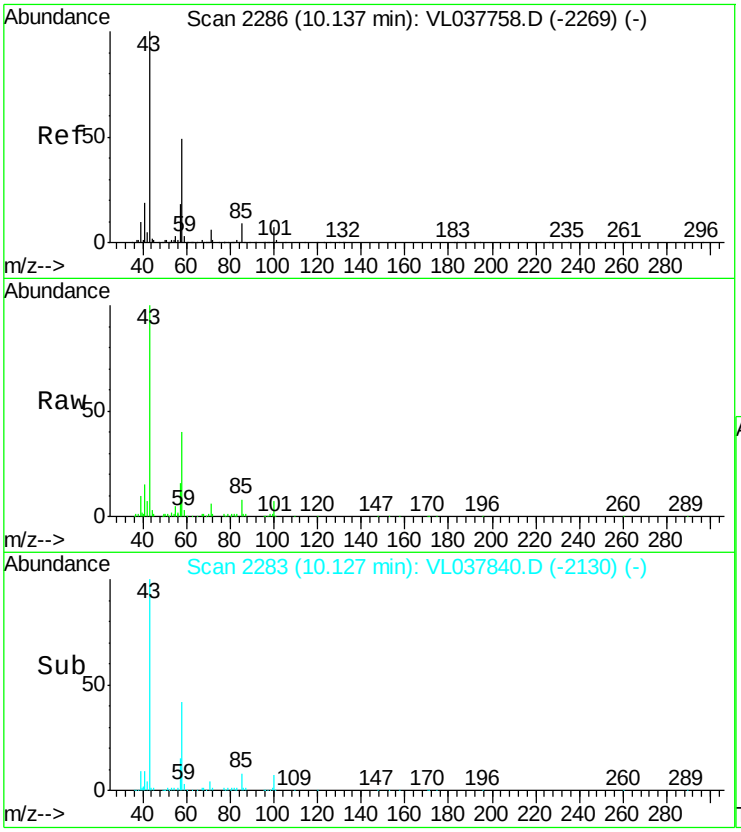


#41
Tetrahydrofuran
Concen: 0.039 ppbv
RT: 5.84 min Scan# 951
Delta R.T. -0.20 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 42 Resp: 2875

Ion	Ratio	Lower	Upper
42	100		
72	26.3	31.9	47.9#
71	0.0	30.3	45.5#



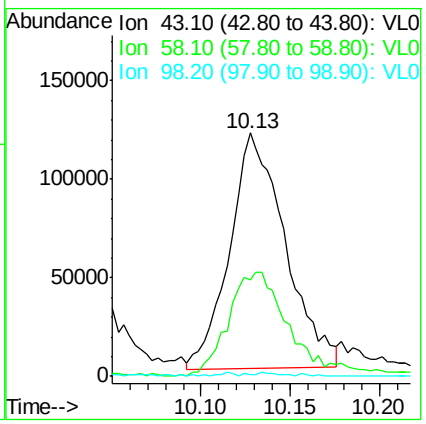


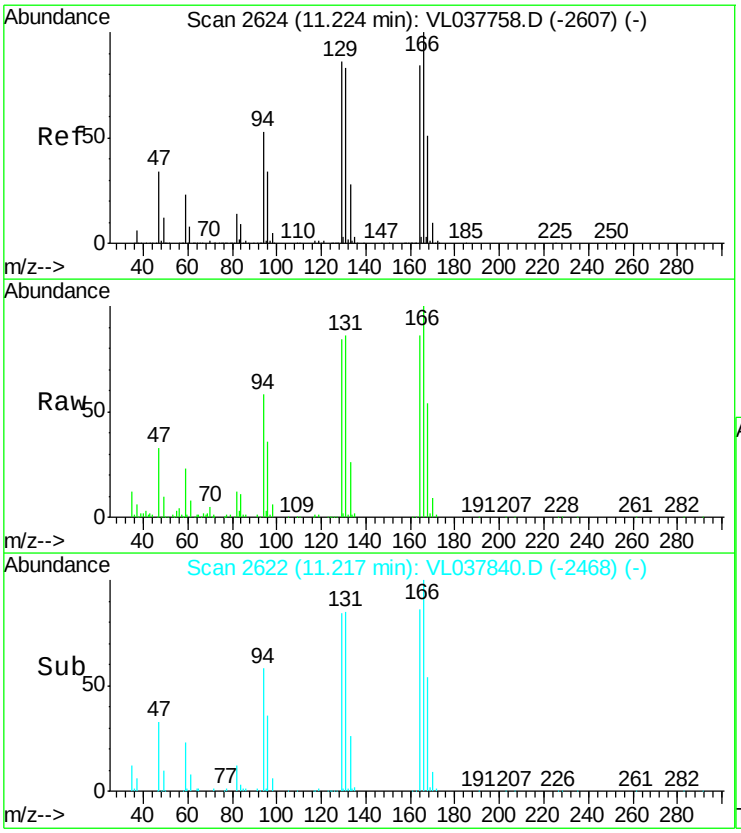
#51
2-Hexanone
Concen: 2.943 ppbv
RT: 10.13
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 43 Resp: 260595

Ion	Ratio	Lower	Upper
43	100		
58	49.0	39.4	59.0
98	1.6	0.3	0.5#

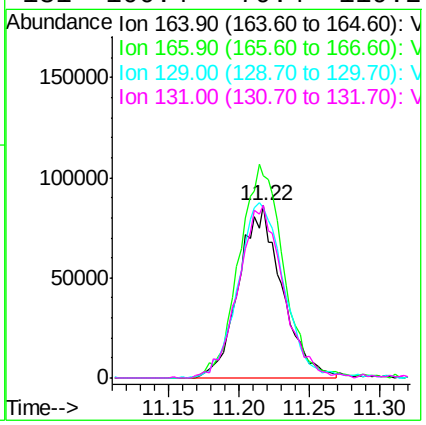


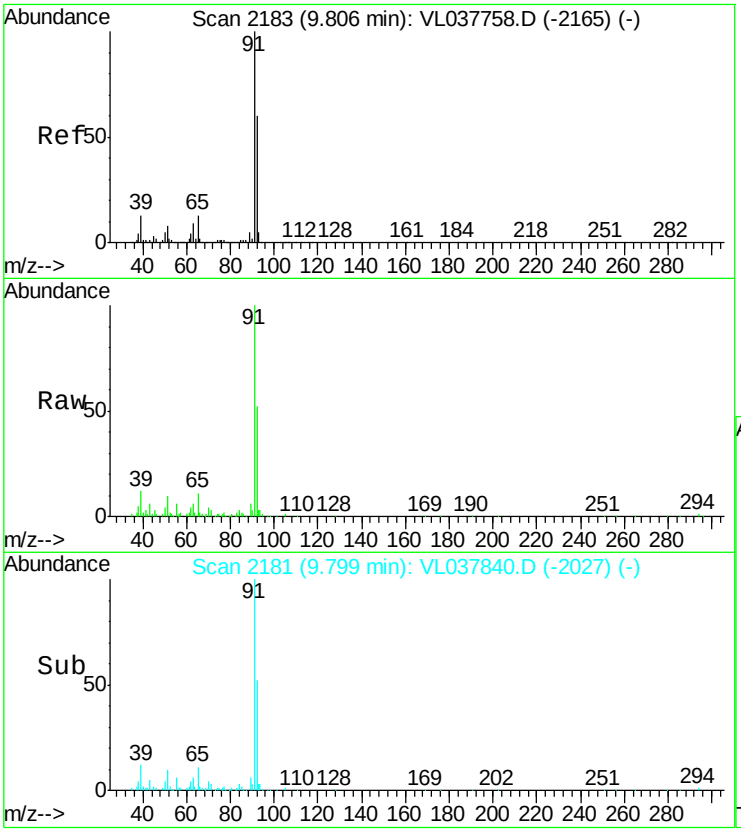


#52
Tetrachloroethene
Concen: 1.463 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:164 Resp: 183518

Ion	Ratio	Lower	Upper
164	100		
166	116.9	95.4	143.2
129	98.0	82.2	123.4
131	100.4	79.4	119.2



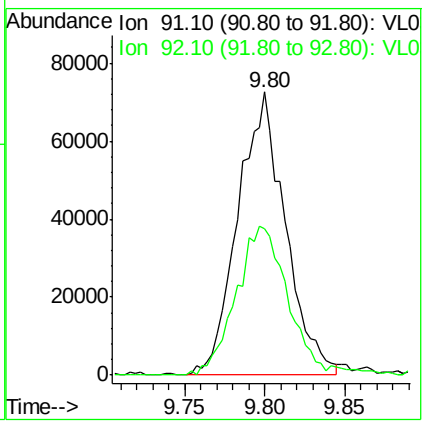


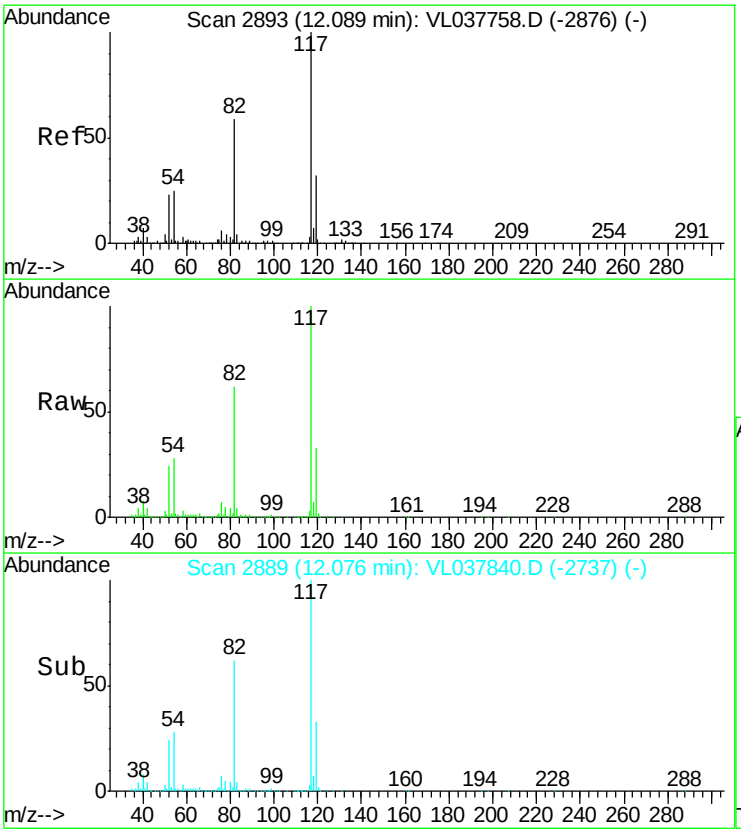
#53
Toluene
Concen: 0.409 ppbv
RT: 9.80
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 91 Resp: 146275

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.4	72.6

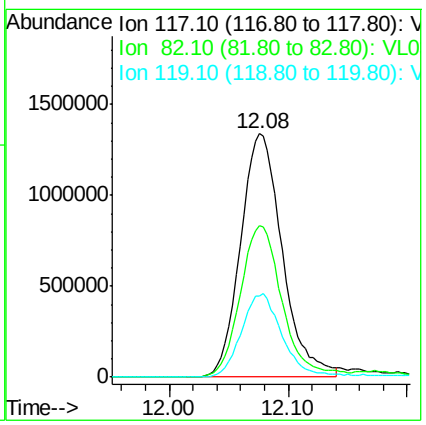


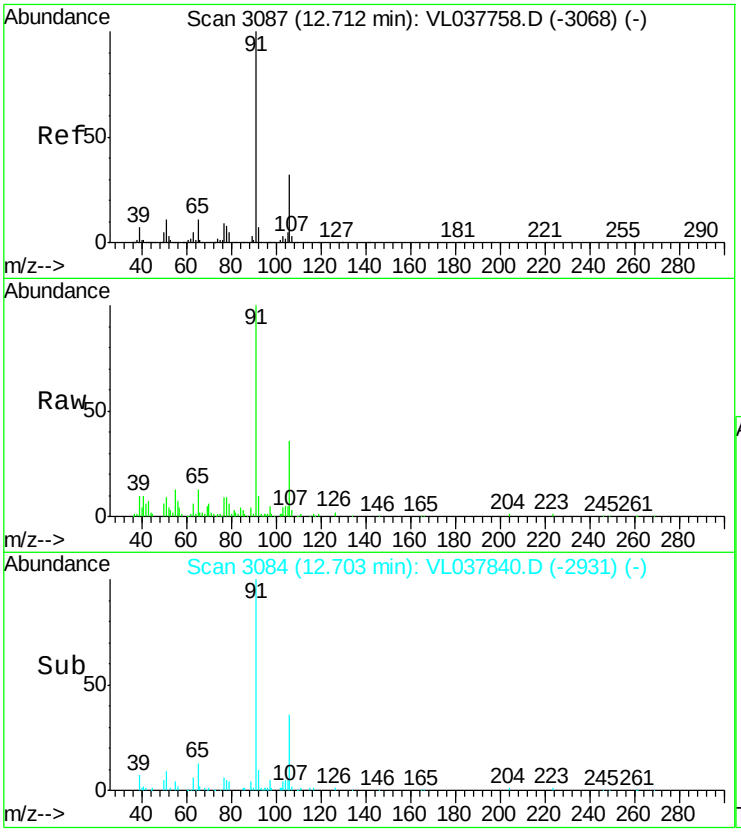


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:117 Resp: 3249559

Ion	Ratio	Lower	Upper
117	100		
82	62.9	52.2	78.2
119	34.8	26.0	39.0



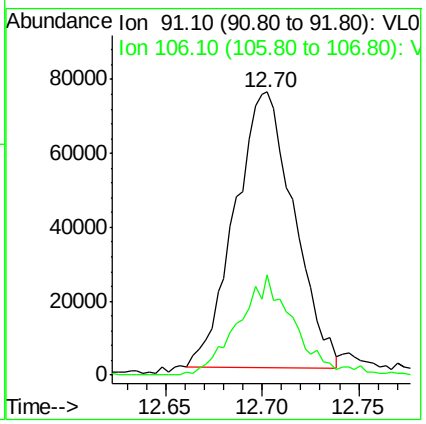


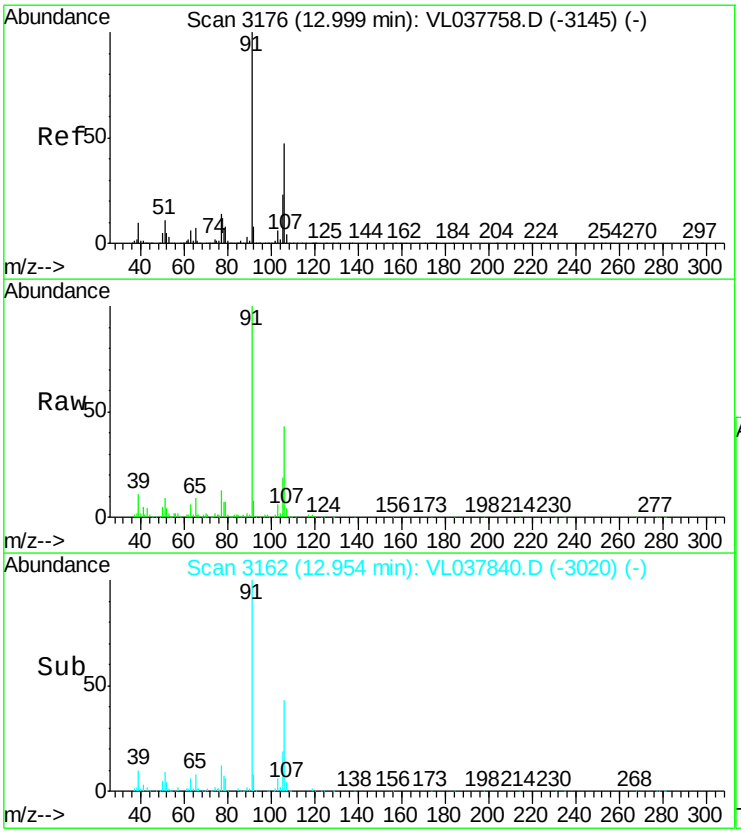
#58
Ethyl Benzene
Concen: 0.364 ppbv
RT: 12.70
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 91 Resp: 158829

Ion	Ratio	Lower	Upper
91	100		
106	35.4	25.3	37.9

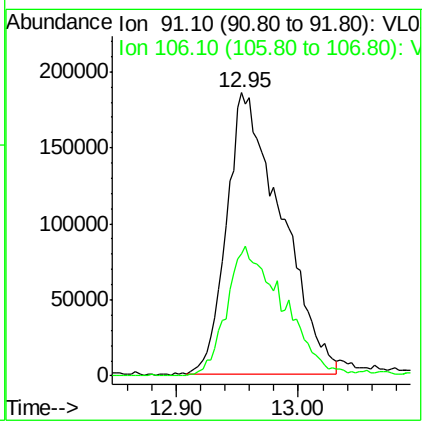


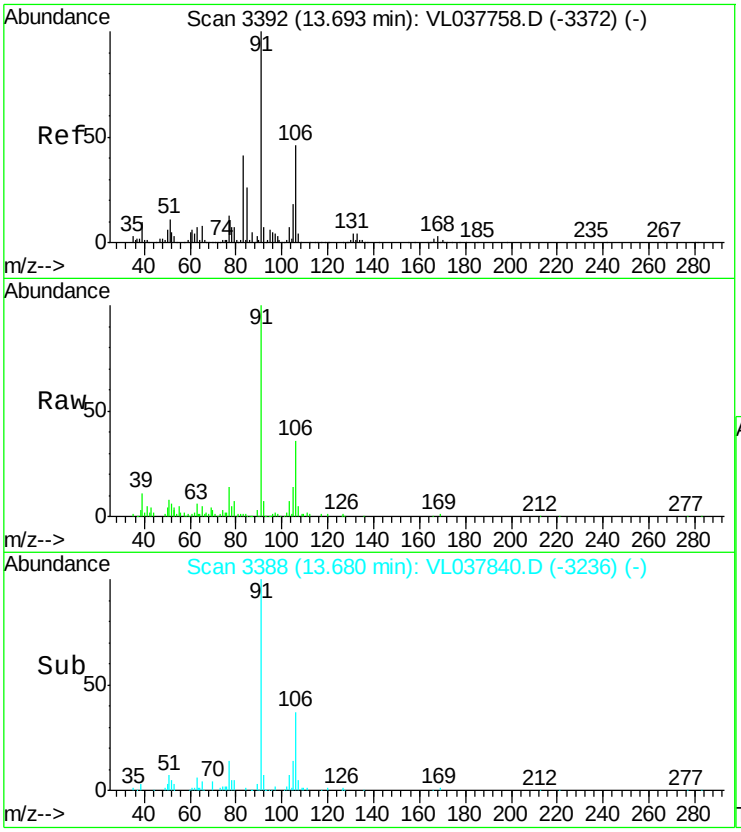


#59
m/p-Xylene
Concen: 1.539 ppbv
RT: 12.95 min Scan# 3162
Delta R.T. -0.04 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion: 91 Resp: 576367

Ion	Ratio	Lower	Upper
91	100		
106	48.5	36.7	55.1



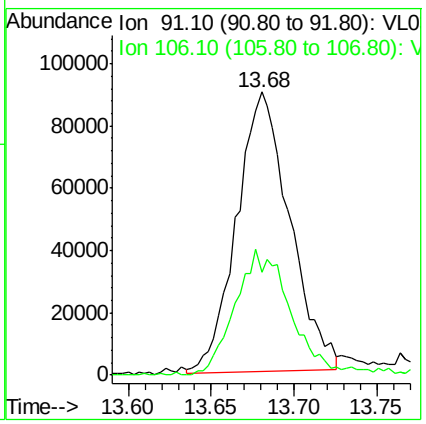


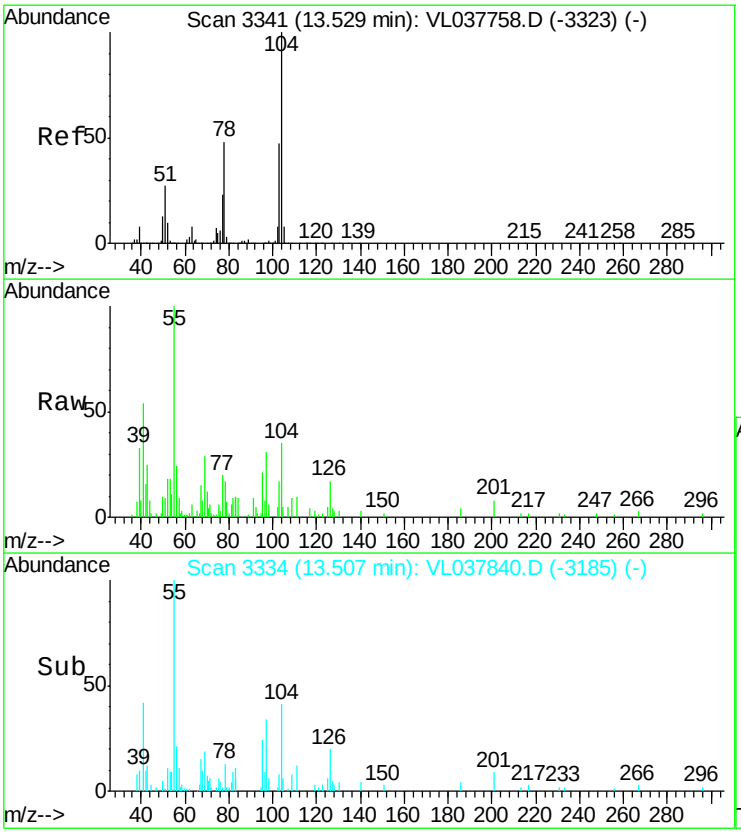
#60
o-Xylene
Concen: 0.559 ppbv
RT: 13.68
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 91 Resp: 200700

Ion	Ratio	Lower	Upper
91	100		
106	46.8	23.5	70.5

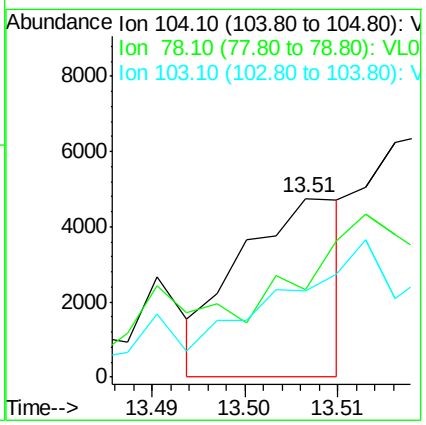


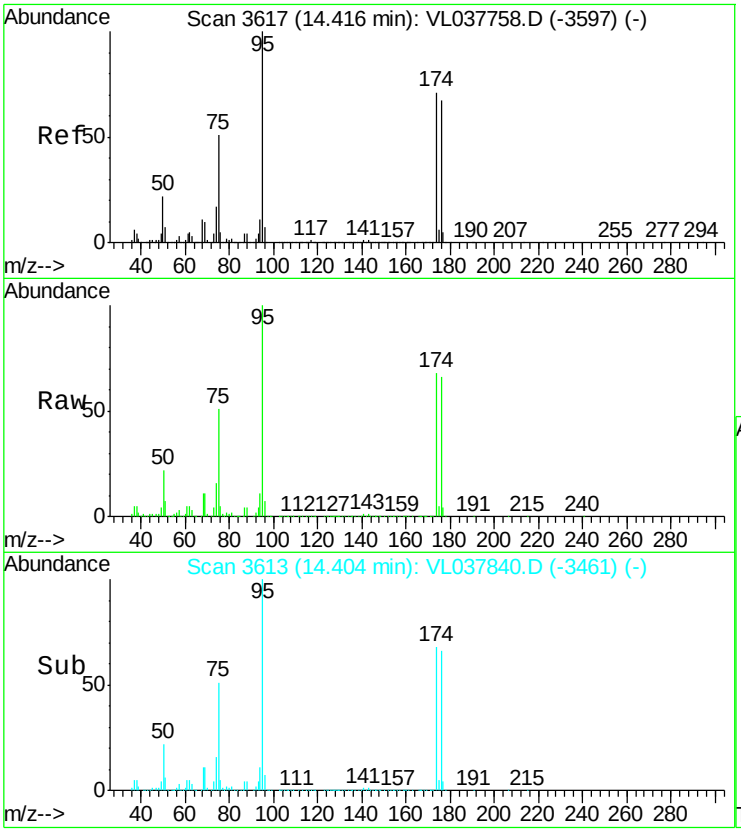


#61
Styrene
Concen: 0.021 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:104 Resp: 3686

Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.6	61.0#
103	0.0	39.6	59.4#



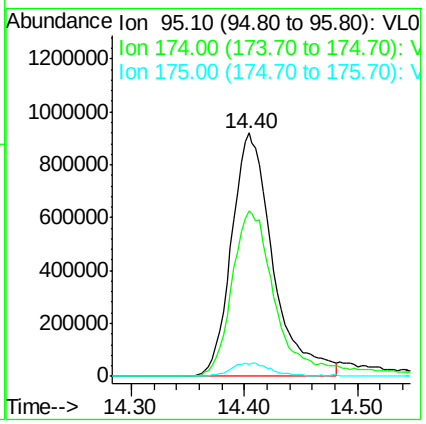


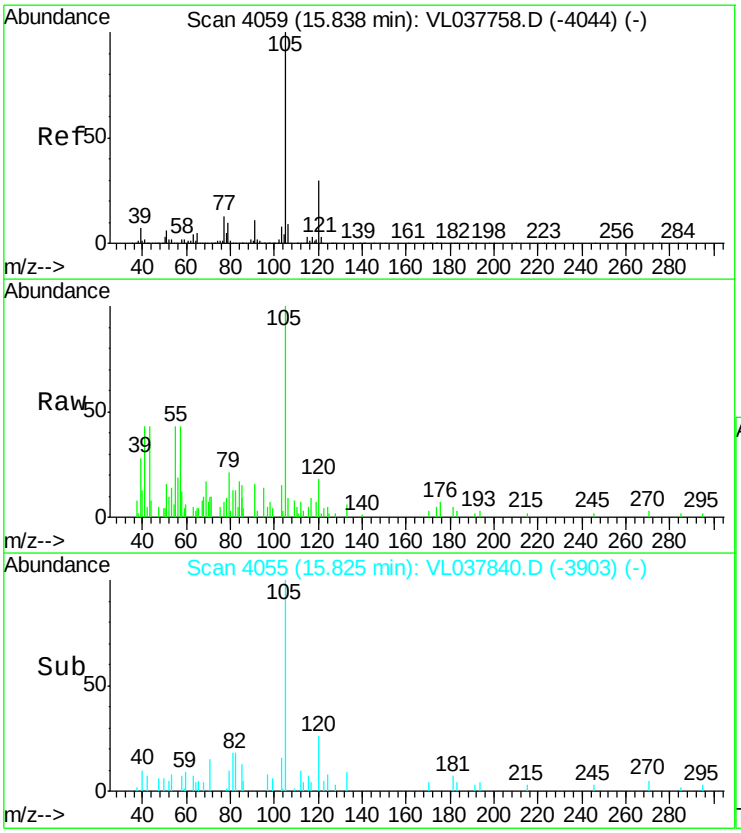
#68
1-Bromo-4-Fluorobenzene
Concen: 10.285 ppbv
RT: 14.40
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion: 95 Resp: 2337245

Ion	Ratio	Lower	Upper
95	100		
174	75.4	57.8	86.6
175	5.4	4.7	7.1

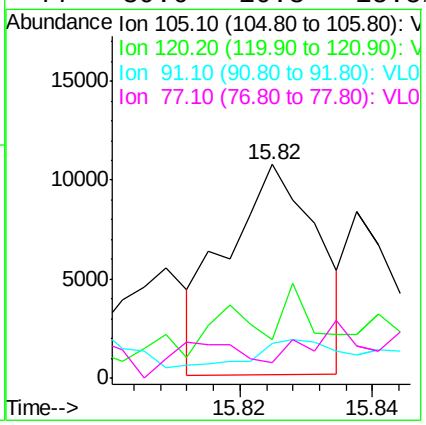


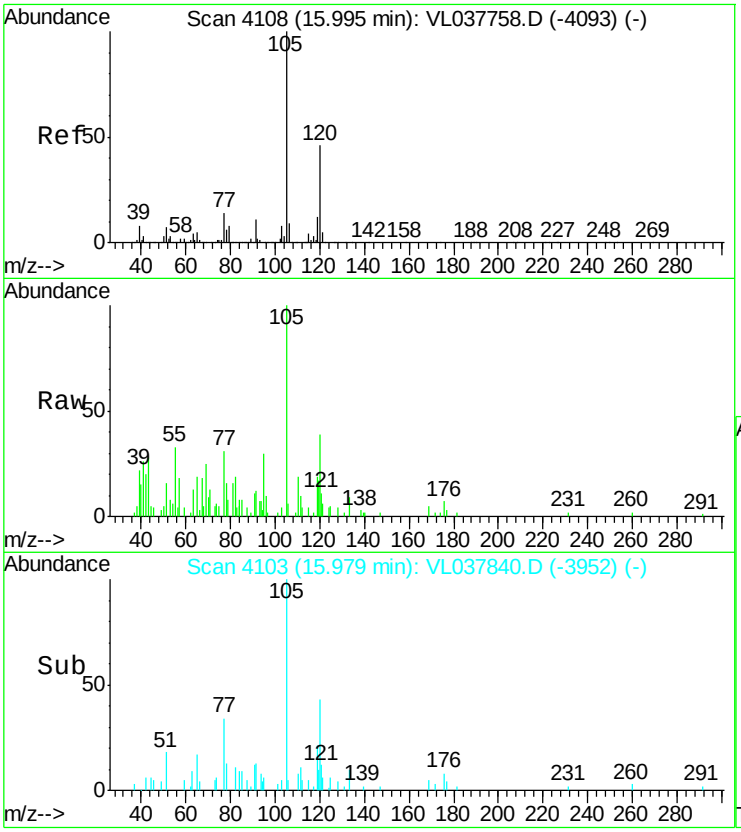


#72
4-Ethyltoluene
Concen: 0.025 ppbv
RT: 15.82 min Scan# 4055
Delta R.T. -0.01 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:105 Resp: 10125

Ion	Ratio	Lower	Upper
105	100		
120	75.2	24.2	36.2#
91	14.4	10.4	15.6
77	39.6	10.3	15.5#



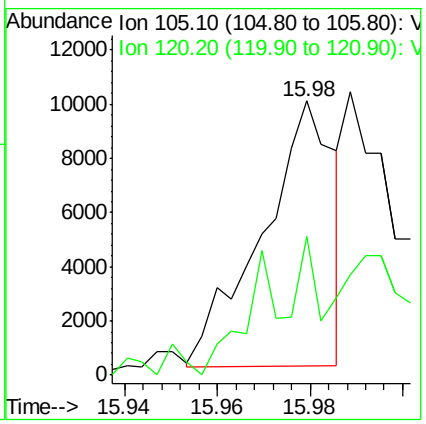


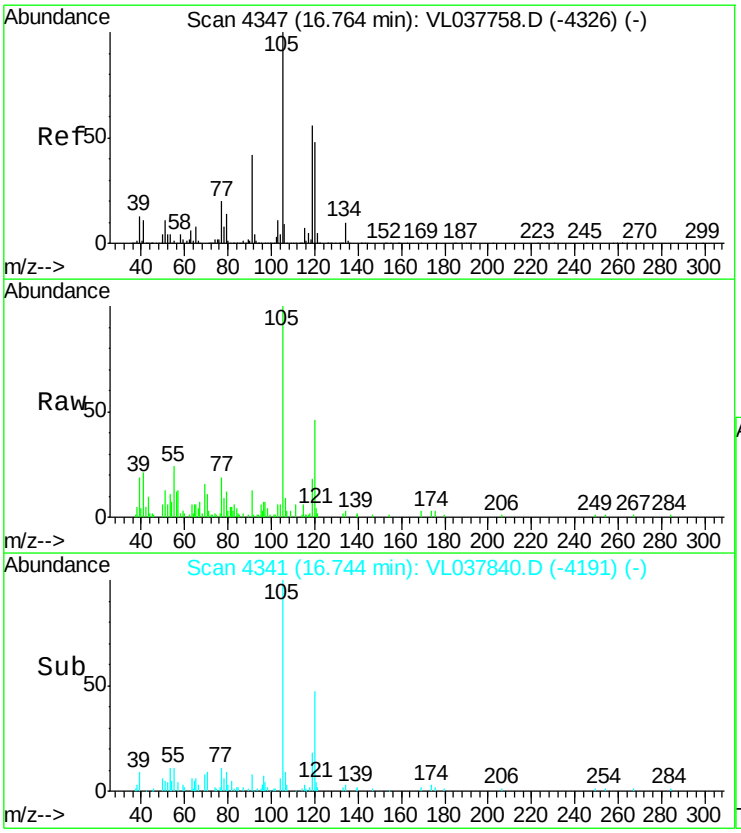
#73
1,3,5-Trimethylbenzene
Concen: 0.028 ppbv
RT: 15.98
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:105 Resp: 10544

Ion	Ratio	Lower	Upper
105	100		
120	48.0	36.6	54.8

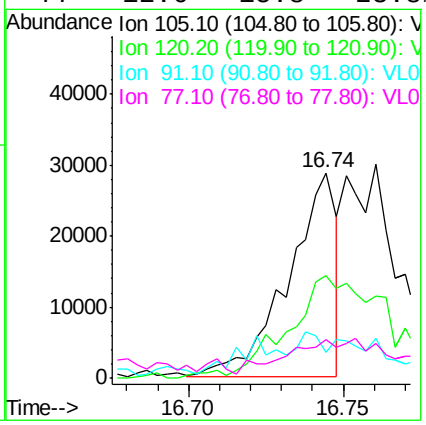


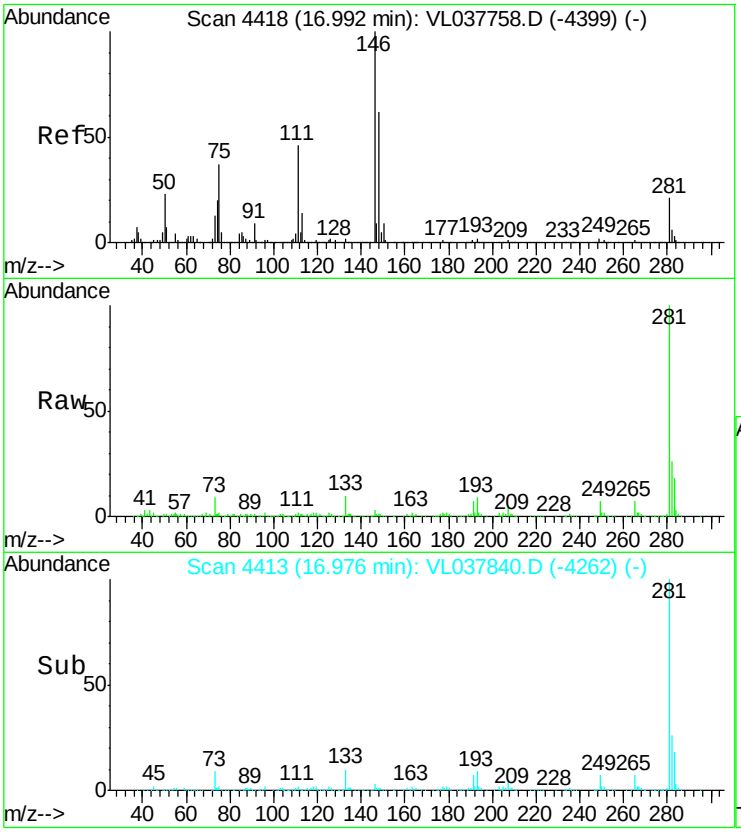


#74
1,2,4-Trimethylbenzene
Concen: 0.080 ppbv
RT: 16.74 min Scan# 4341
Delta R.T. -0.02 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:105 Resp: 31151

Ion	Ratio	Lower	Upper
105	100		
120	49.6	38.4	57.6
91	10.0	34.2	51.2#
77	12.6	15.8	23.8#



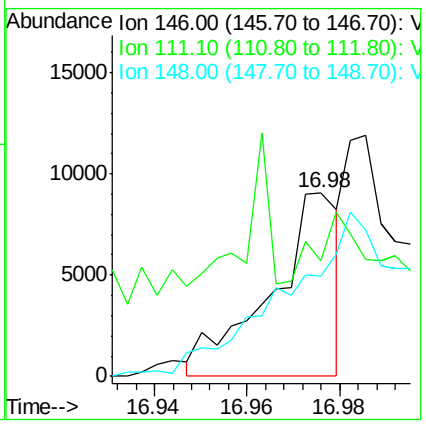


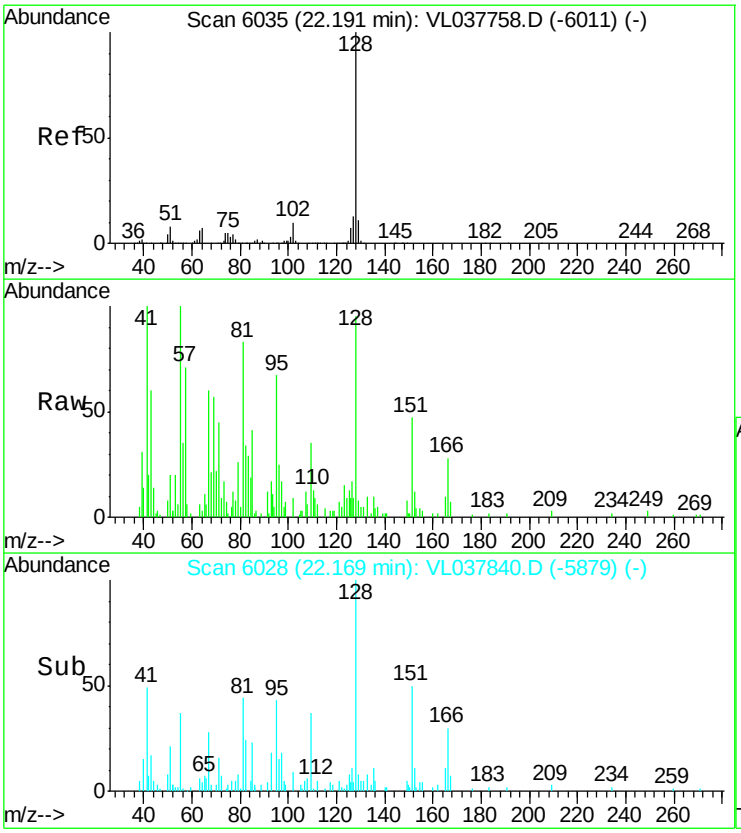
#75
1,3-Dichlorobenzene
Concen: 0.038 ppbv
RT: 16.98
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:52

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:146 Resp: 9161

Ion	Ratio	Lower	Upper
146	100		
111	74.0	22.8	68.4#
148	0.0	32.8	98.3#

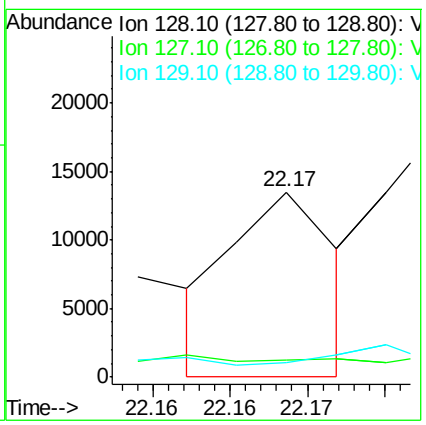


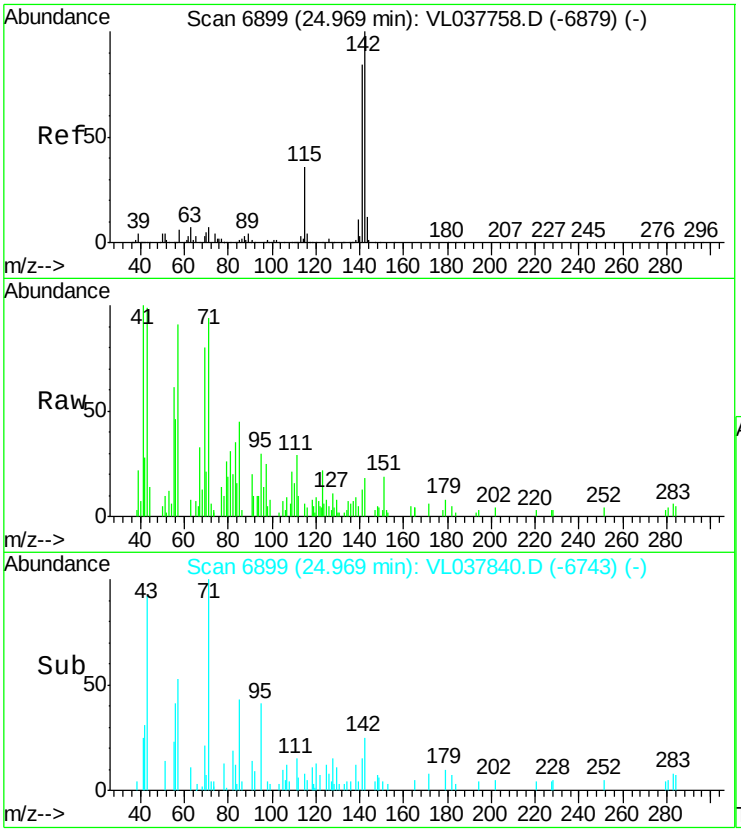


#79
Naphthalene
Concen: 0.026 ppbv
RT: 22.17 min Scan# 6028
Delta R.T. -0.02 min
Lab File: VL037840.D
Acq: 12 Oct 2021 21:52

Tgt Ion:128 Resp: 6306

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





#80
Naphthalene,2-methyl-
Concen: 0.056 ppbv
RT: 24.97
Delta R.T
Lab File:
Acq: 12 Oct 2021 21:32

Instrument :
MSVOA_L
ClientSampleId :
C0P14

Tgt Ion:142 Resp: 3562

Ion	Ratio	Lower	Upper
142	100		
141	77.8	68.6	102.8
115	25.5	29.0	43.6#