Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
Data File : VL038707.D
Acq On : 23 Mar 2022 6:19
Operator : SY/AP
Sample : N2048-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Quant Time: Mar 23 07:08:13 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	5.65	49	768618	10.00 ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2005554	10.00 ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1920841	10.00 ppbv	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1412038	9.59 ppbv	-0.02

Spiked Amount 10.000 Range 65 - 135 Recovery = 95.90%

Target Compounds	R.T.	QIon	Response	Conc Units		Qvalue
2) Dichlorodifluoromethane	3.04	85	22211	0.21 ppbv		92
3) Chlorodifluoromethane	2.99	51	16173	0.20 ppbv		97
4) Chloromethane	3.14	50	5727	0.13 ppbv	#	76
9) Propene	3.00	41	79706	2.03 ppbv		99
10) Heptane	8.10	43	1944	0.02 ppbv	#	58
11) Trichlorofluoromethane	3.94	101	19150	0.21 ppbv		85
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4230	0.06 ppbv	#	80
13) Ethanol	3.59	45	144714	33.47 ppbv		98
15) Acetone	3.83	43	1756719	26.49 ppbv		90
16) 1,3-Butadiene	3.30	39	185848	4.94 ppbv	#	12
17) tert-Butyl alcohol	4.28	59	46736	0.81 ppbv	#	94
19) Isopropyl Alcohol	3.95	45	28524	0.78 ppbv	#	91
20) Methylene Chloride	4.33	84	27373	0.98 ppbv		97
21) Allyl Chloride	4.30	41	1195	0.03 ppbv	#	33
23) Vinyl Acetate	5.04	43	33523	0.52 ppbv	#	88
25) Ethyl Acetate	5.67	43	19715	0.12 ppbv	#	88
26) Hexane	5.67	57	24652	0.33 ppbv	#	1
27) Carbon Disulfide	4.54	76	4857	0.07 ppbv	#	93
29) Chloroform	5.74	83	16853	0.14 ppbv		85
34) 2-Butanone	5.22	43	1140867	14.37 ppbv		98
36) Benzene	6.87	78	19613	0.13 ppbv		97
39) 1,2-Dichloropropane	7.15	63	459088	7.59 ppbv	#	28
51) 2-Hexanone	10.12	43	124950	1.18 ppbv	#	99
52) Tetrachloroethene	11.20	164	2250268	39.73 ppbv		97
53) Toluene	9.78	91	18049	0.11 ppbv	#	20
58) Ethyl Benzene	12.97	91	6851	0.03 ppbv		90
59) m/p-Xylene	12.97	91	6851	0.03 ppbv	#	30
60) o-Xylene	13.66	91	6077	0.03 ppbv	#	30
65) tert-Butylbenzene	16.96	119	220185	0.87 ppbv	#	24
66) Benzyl Chloride	16.95	91	1084	0.02 ppbv	#	1
74) 1,2,4-Trimethylbenzene	16.73	105	9908	0.05 ppbv	#	64
75) 1,3-Dichlorobenzene	16.97	146	24505	0.18 ppbv	#	1

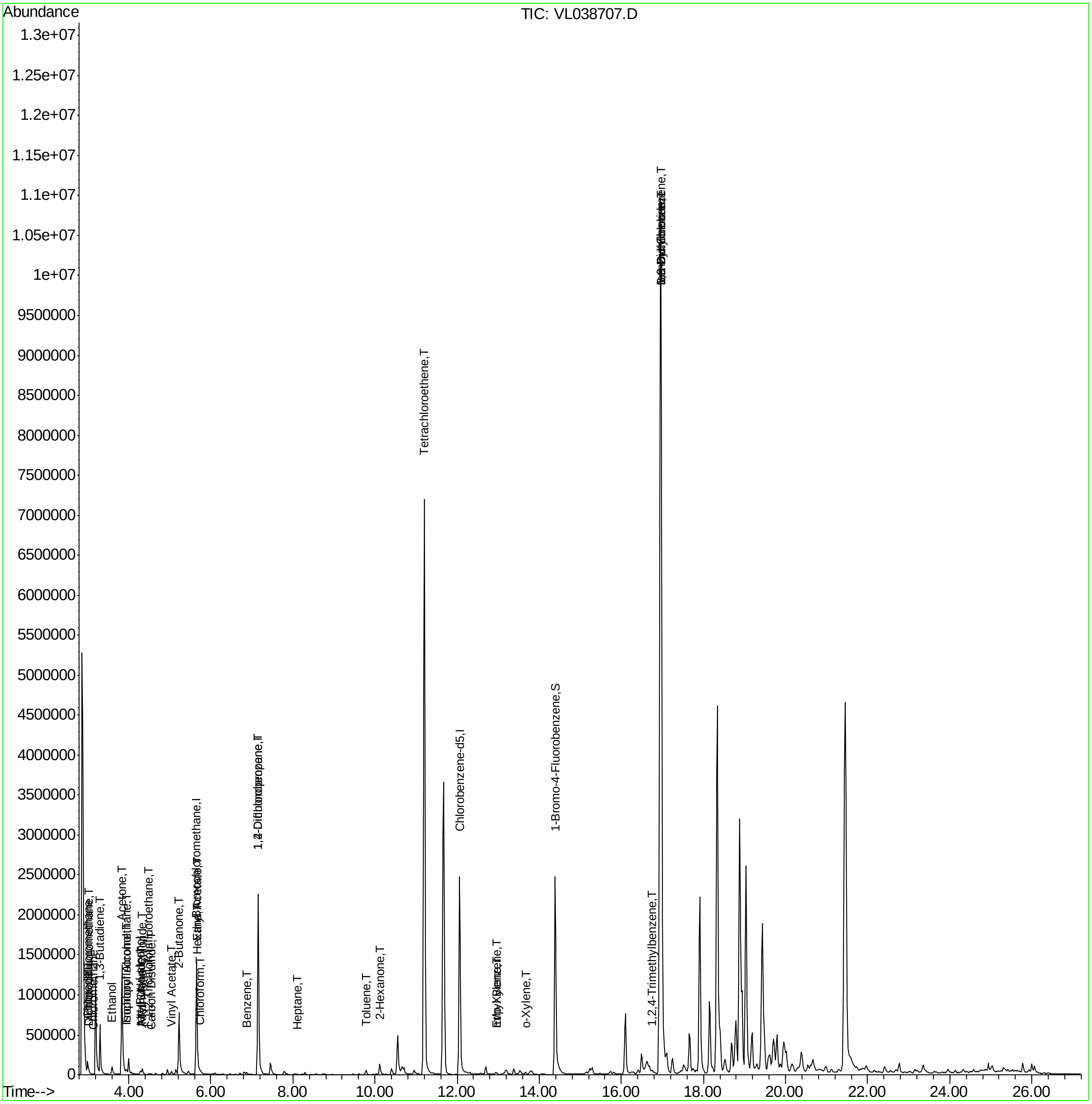
(#) = qualifier out of range (m) = manual integration (+) = signals summed

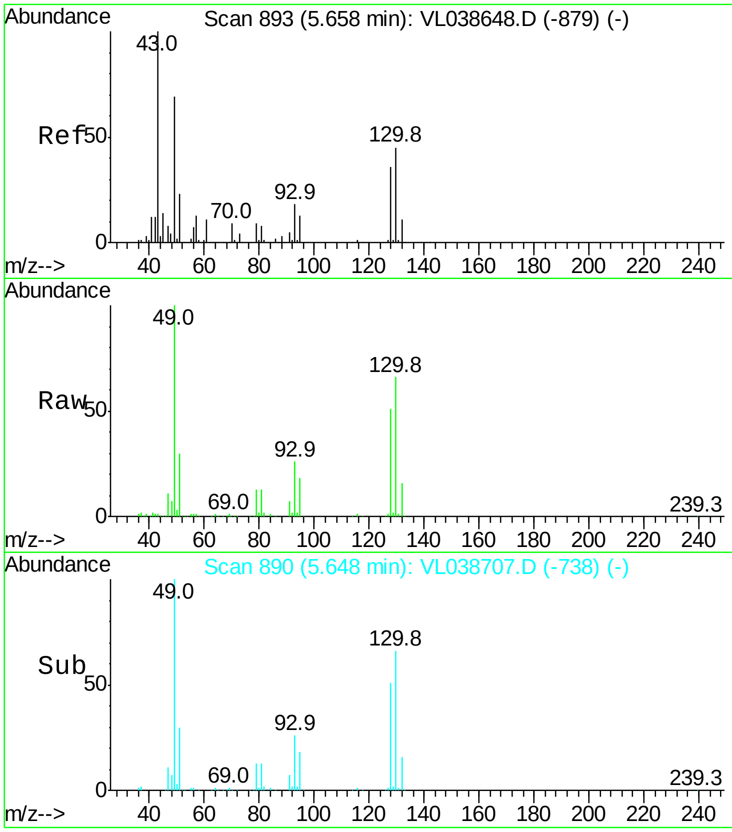
Quantitation Report   (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
Data File : VL038707.D
Acq On   : 23 Mar 2022   6:19
Operator : SY/AP
Sample   : N2048-02
Misc   : 400mL/MSVOA_L
ALS Vial : 1   Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P94

Quant Time: Mar 23 07:08:13 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15   Instrument: MSVOA_LMon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration



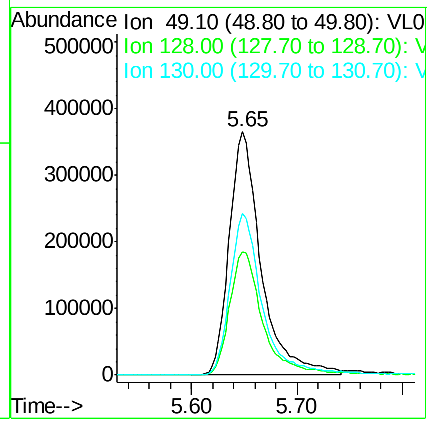


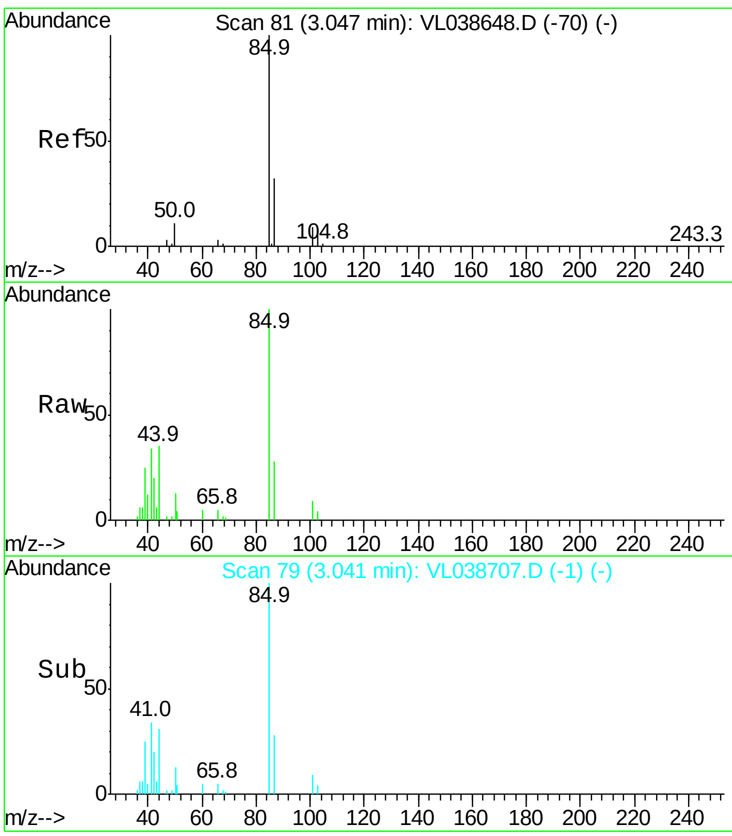
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.65
Delta R.T
Lab File:
Acq: 23 Ma 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 49 Resp: 768618

Ion	Ratio	Lower	Upper
49	100		
128	53.4	26.2	78.6
130	67.4	33.7	101.1

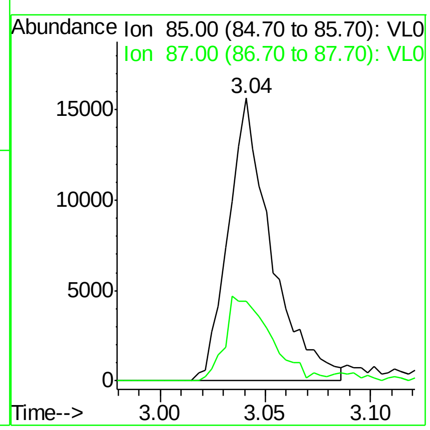


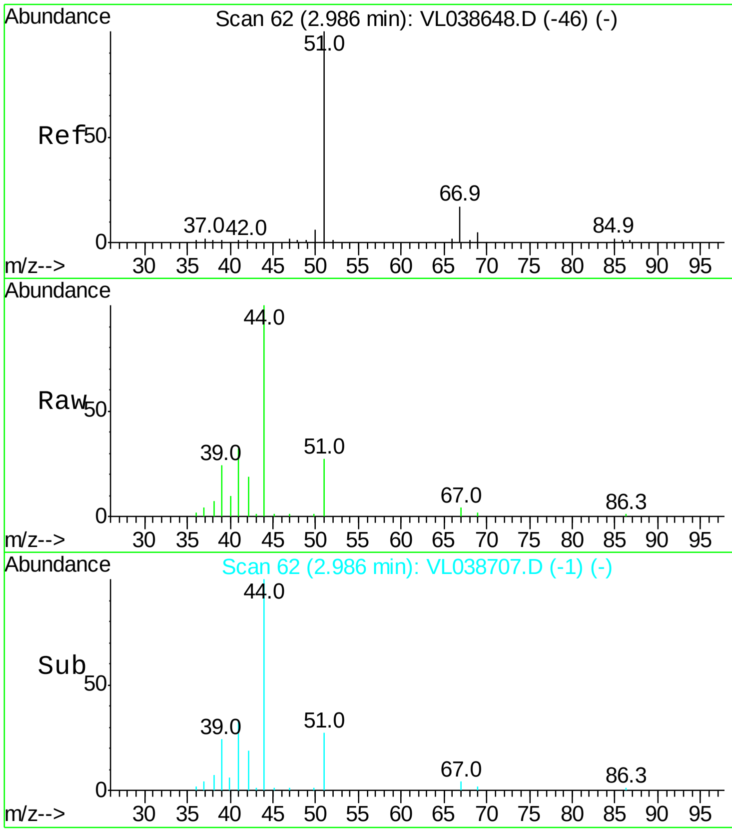


#2
Dichlorodifluoromethane
Concen: 0.21 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 85 Resp: 22211

Ion	Ratio	Lower	Upper
85	100		
87	28.2	26.0	39.0

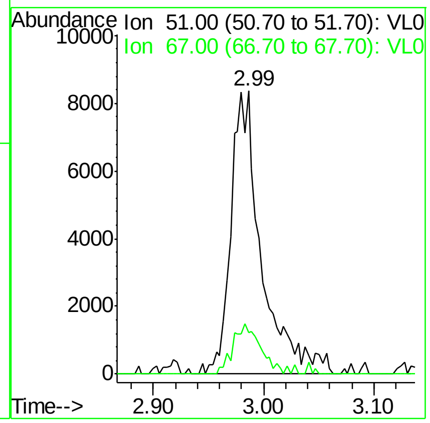


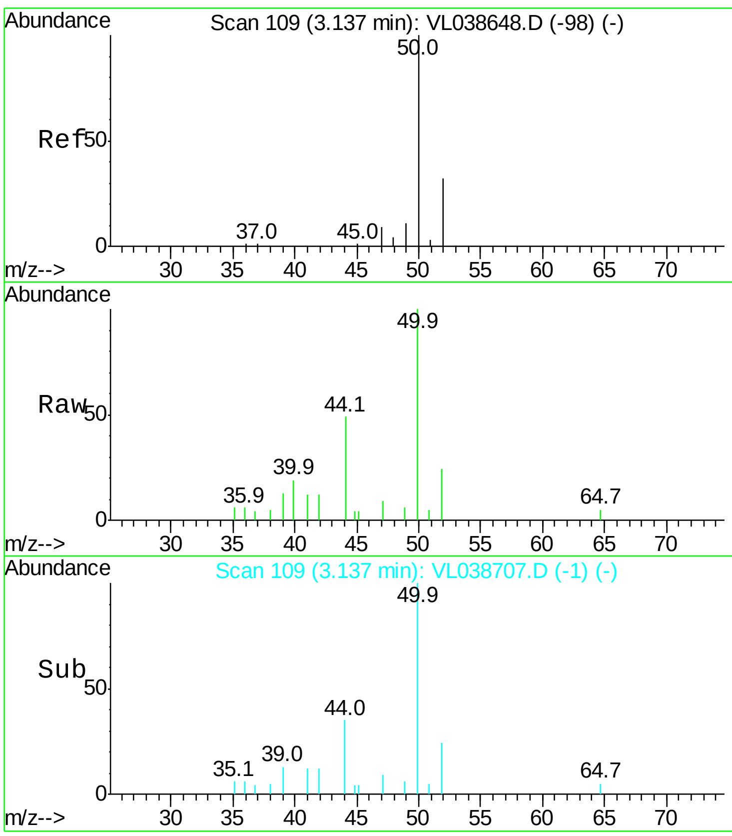


#3
Chlorodifluoromethane
Concen: 0.20 ppbv
RT: 2.99
Delta R.T
Lab File:
Acq: 23 Mar 2022   6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

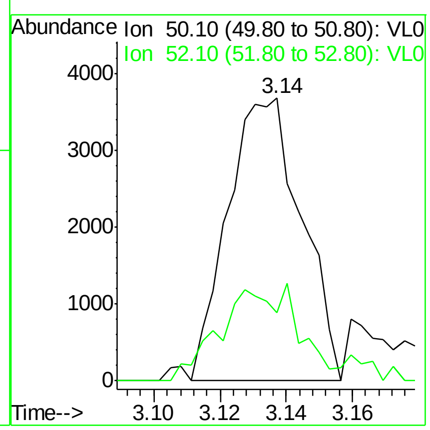
```
Tgt Ion: 51 Resp:   16173
Ion  Ratio  Lower  Upper
 51  100
 67   16.4   14.1   21.1
```

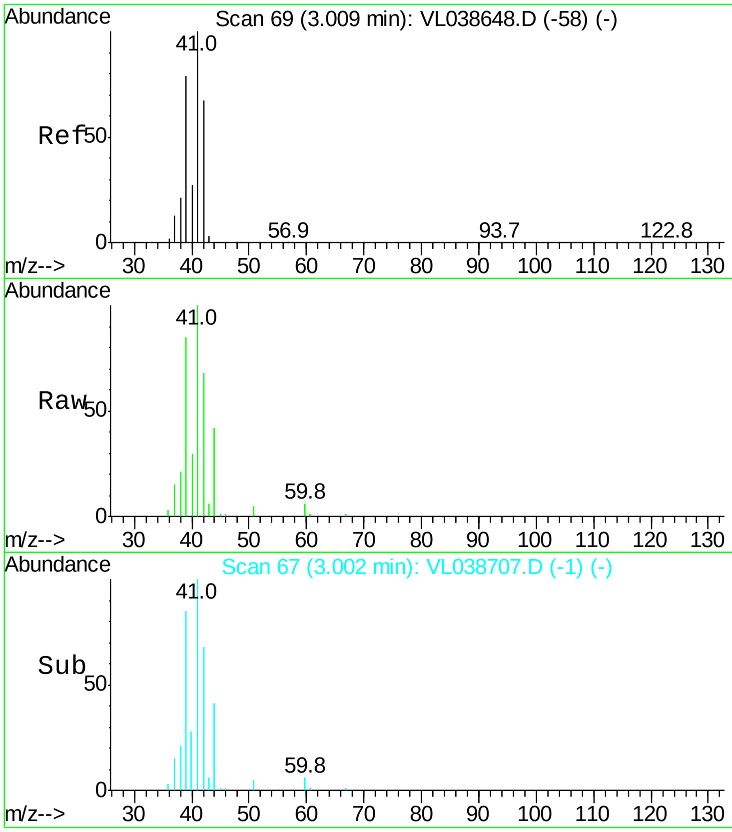




#4
Chloromethane
Concen: 0.13 ppbv
RT: 3.14 min   Scan# 109
Delta R.T.   -0.00 min
Lab File: VL038707.D
Acq: 23 Mar 2022   6:19

```
Tgt Ion: 50 Resp:    5727
Ion  Ratio  Lower  Upper
 50  100
 52   18.7   25.5   38.3#
```



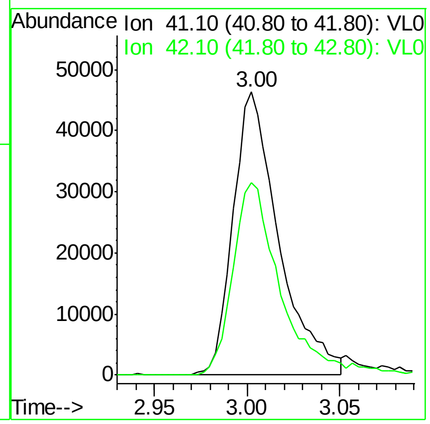


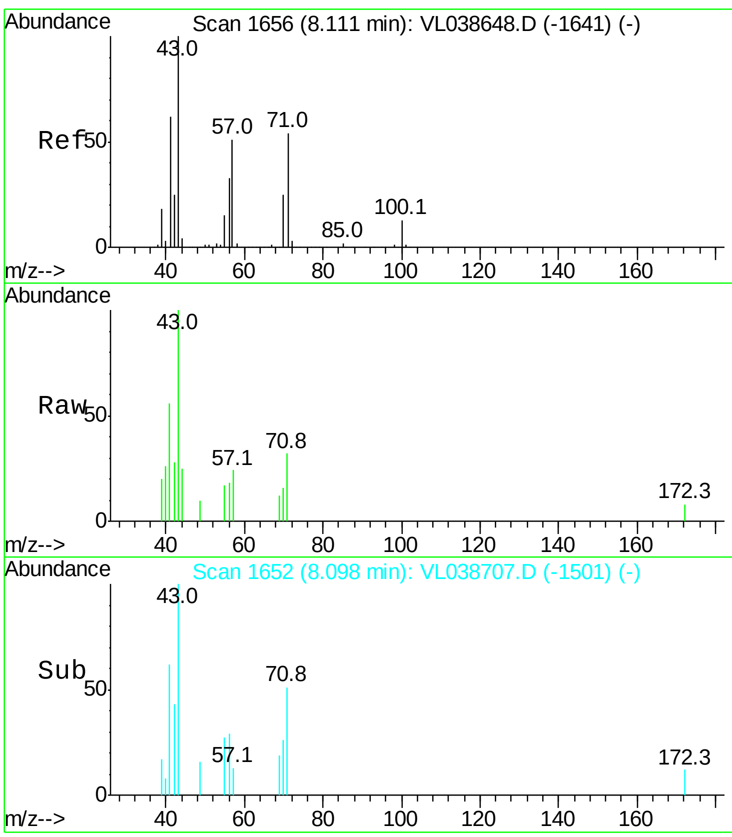
#9
Propene
Concen: 2.03 ppbv
RT: 3.00
Delta R.T
Lab File:
Acq: 23 Ma

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 41 Resp: 79706

Ion	Ratio	Lower	Upper
41	100		
42	71.3	56.2	84.4

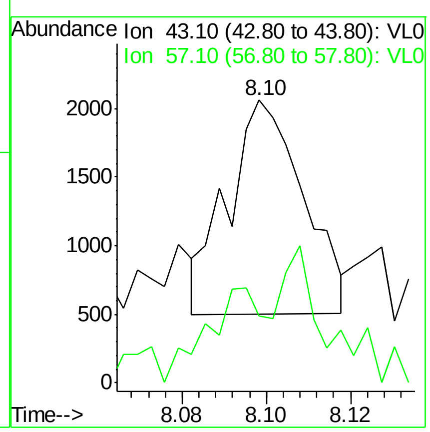


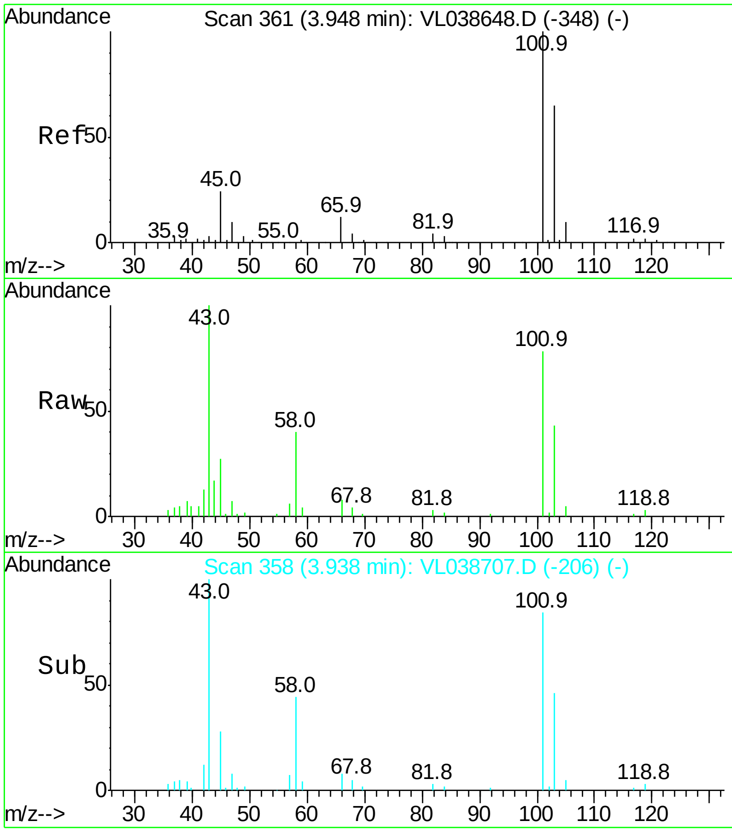


#10
Heptane
Concen: 0.02 ppbv
RT: 8.10 min Scan# 1652
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 43 Resp: 1944

Ion	Ratio	Lower	Upper
43	100		
57	81.4	41.4	62.2#



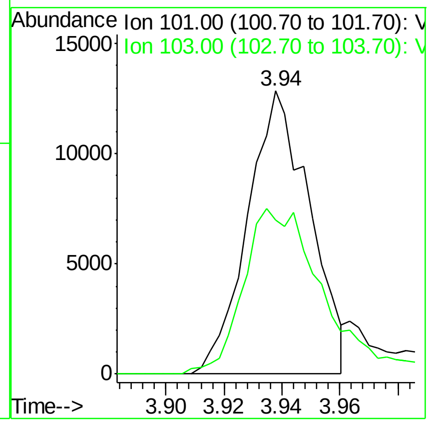


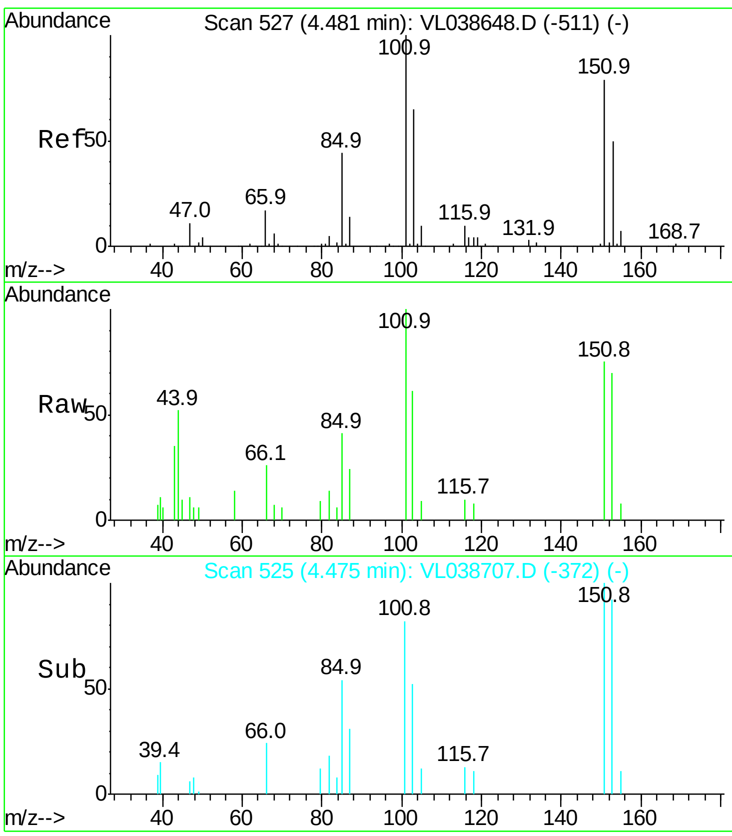
#11
Trichlorofluoromethane
Concen: 0.21 ppbv
RT: 3.94
Delta R.T
Lab File:
Acq: 23 Ma

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion:101 Resp: 19150

Ion	Ratio	Lower	Upper
101	100		
103	52.7	51.9	77.9

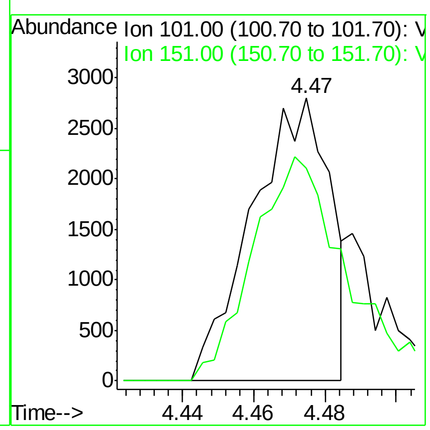


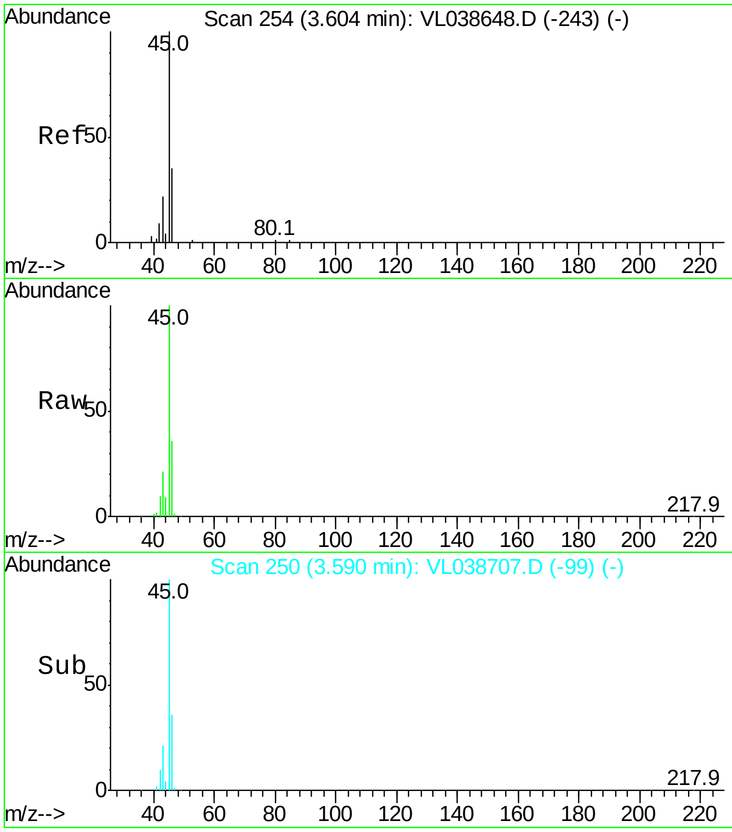


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.06 ppbv
RT: 4.47 min Scan# 525
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion:101 Resp: 4230

Ion	Ratio	Lower	Upper
101	100		
151	96.5	62.9	94.3#



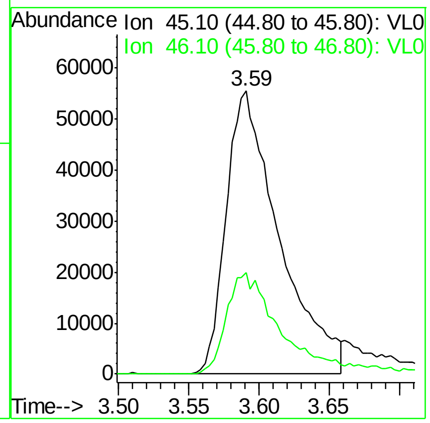


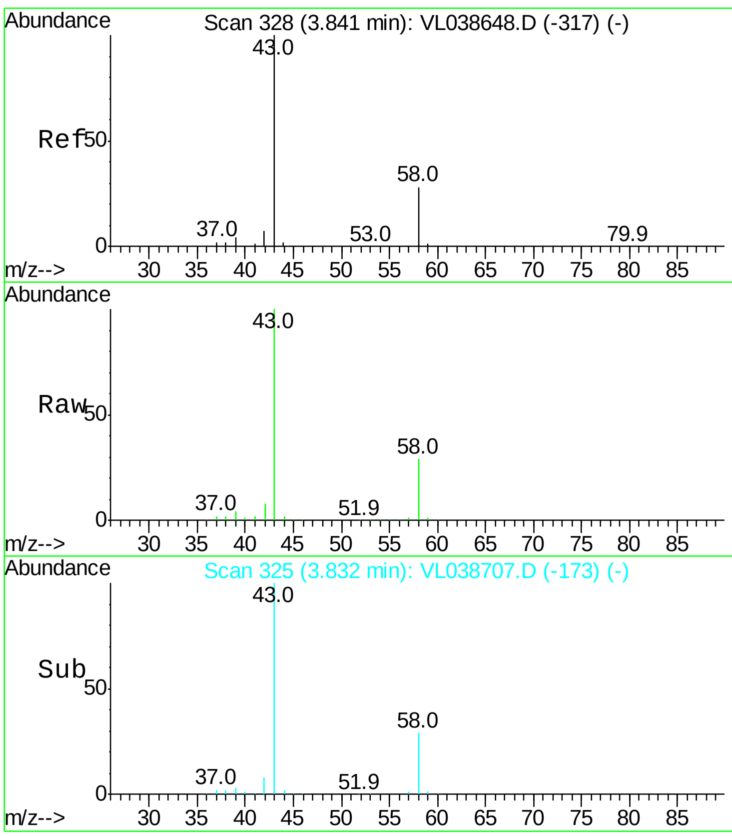
#13
Ethanol
Concen: 33.47 ppbv
RT: 3.59
Delta R.T
Lab File:
Acq: 23 Ma

Instrument : MSVOA_L
ClientSampleId : C0P94

Tgt Ion: 45 Resp: 144714

Ion	Ratio	Lower	Upper
45	100		
46	38.8	15.1	60.5

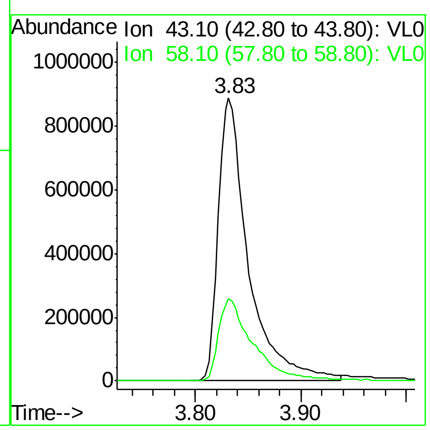


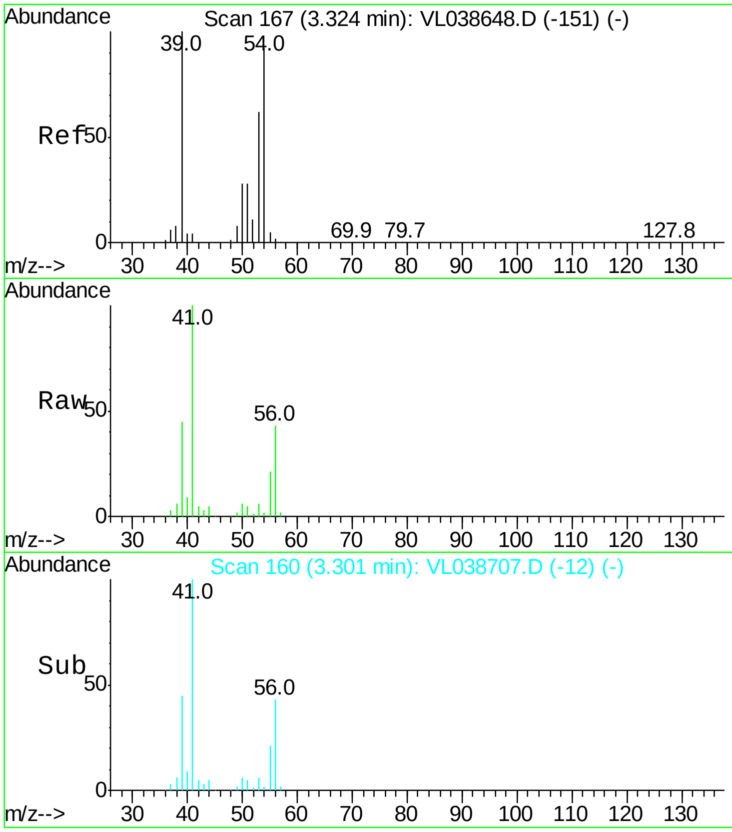


#15
Acetone
Concen: 26.49 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 43 Resp: 1756719

Ion	Ratio	Lower	Upper
43	100		
58	34.2	23.3	34.9



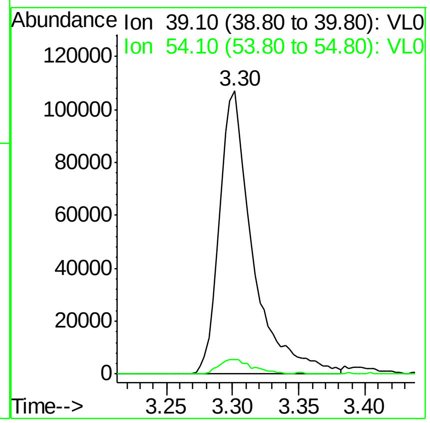


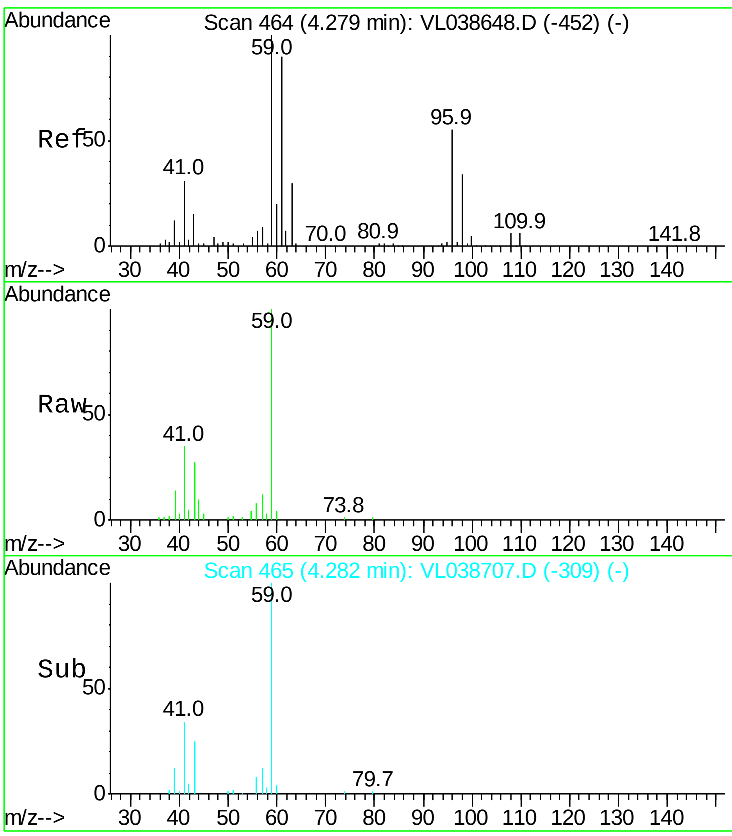
#16
1,3-Butadiene
Concen: 4.94 ppbv
RT: 3.30
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 39 Resp: 185848

Ion	Ratio	Lower	Upper
39	100		
54	5.6	69.1	103.7#

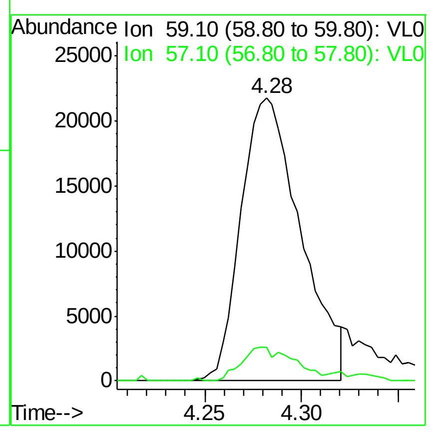


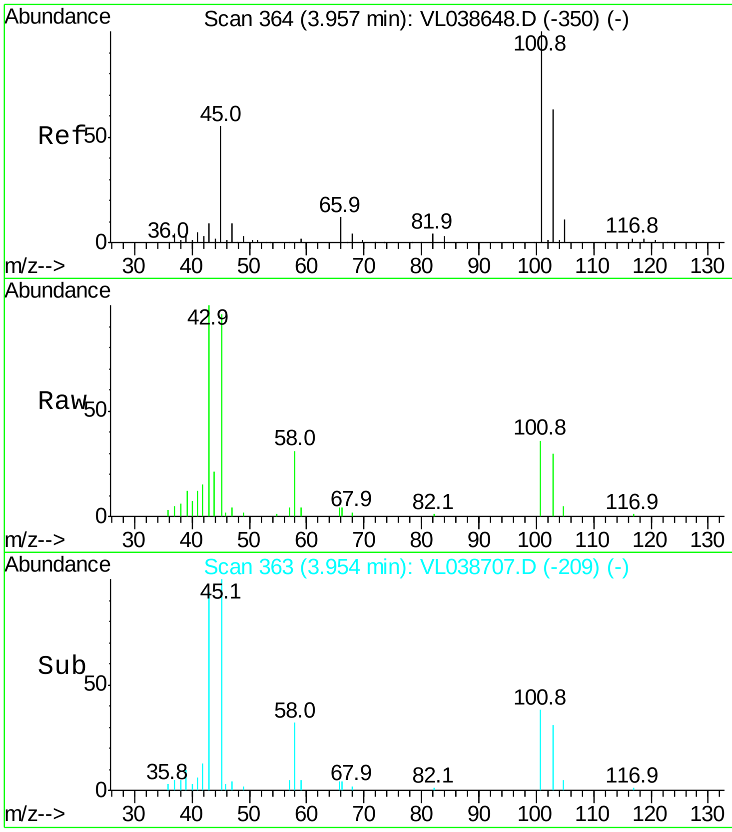


#17
tert-Butyl alcohol
Concen: 0.81 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.00 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 59 Resp: 46736

Ion	Ratio	Lower	Upper
59	100		
57	12.4	8.2	12.2#



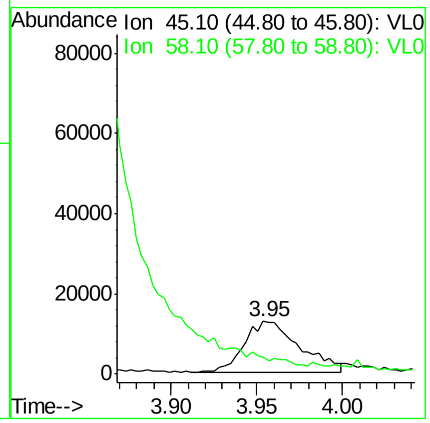


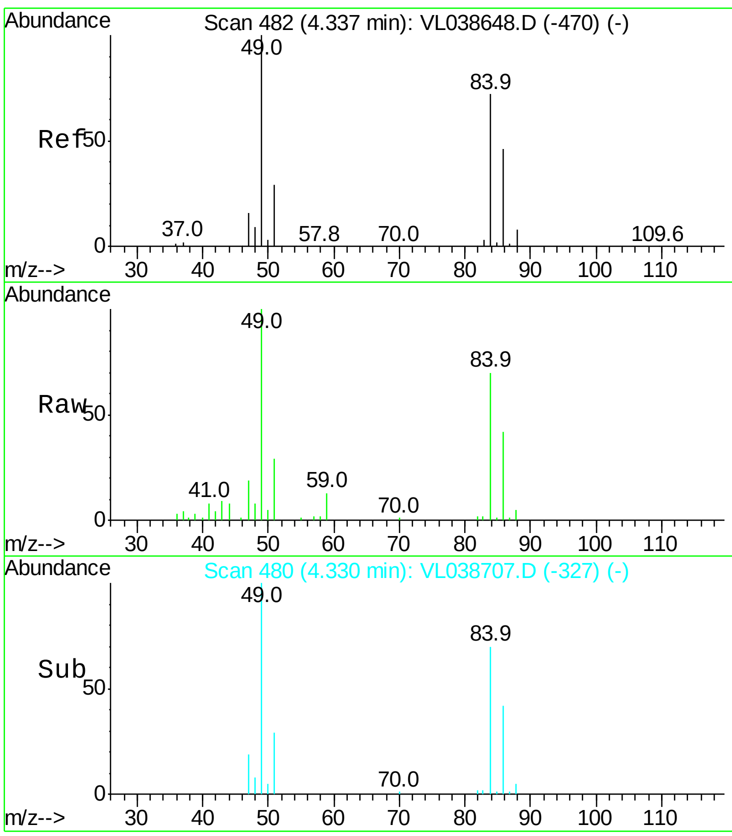
#19
Isopropyl Alcohol
Concen: 0.78 ppbv
RT: 3.95
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 45 Resp: 28524

Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.3	3.5#

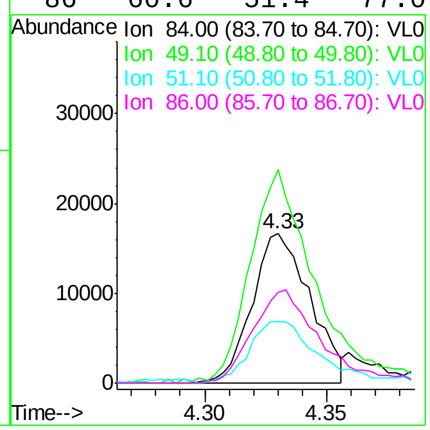


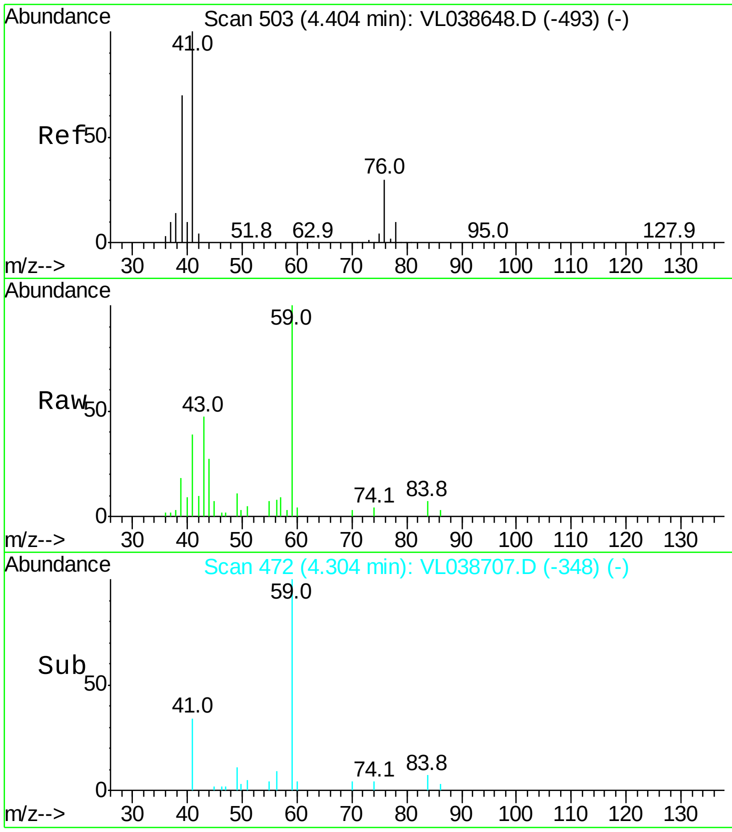


#20
Methylene Chloride
Concen: 0.98 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 84 Resp: 27373

Ion	Ratio	Lower	Upper
84	100		
49	141.9	111.2	166.8
51	39.4	32.8	49.2
86	60.6	51.4	77.0

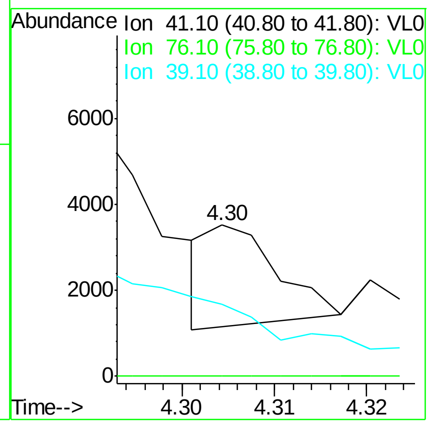


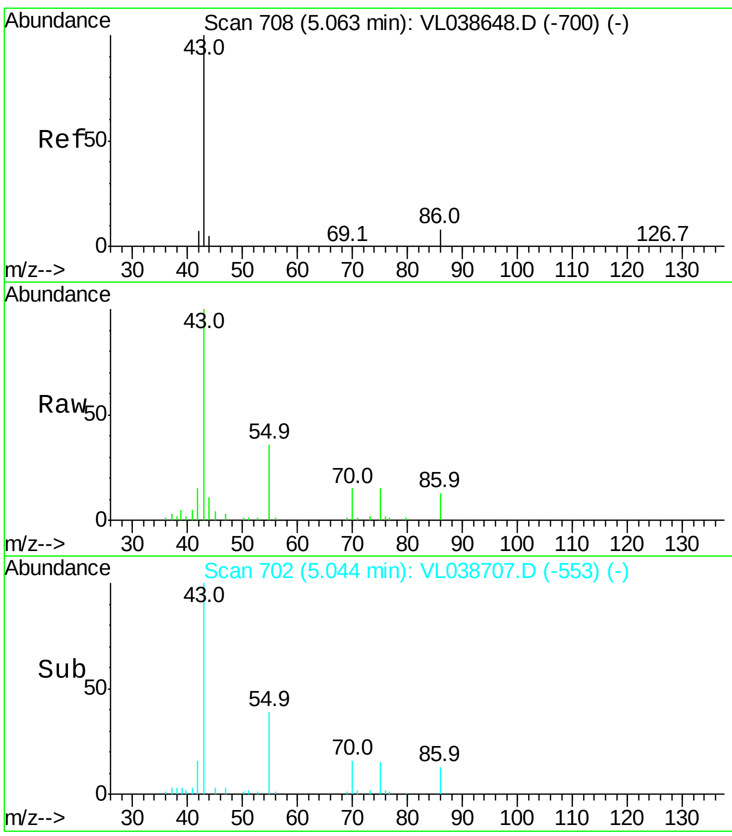


#21
Allyl Chloride
Concen: 0.03 ppbv
RT: 4.30
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

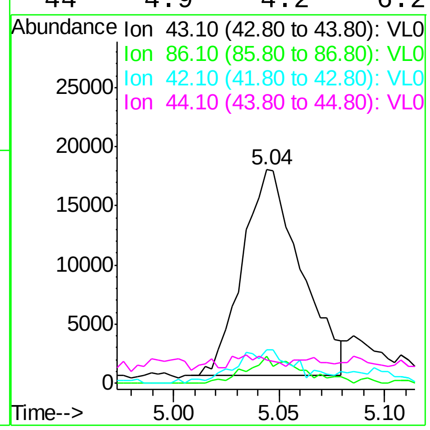
Tgt	Ion: 41	Resp:	1195
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	130.0	56.6	85.0#

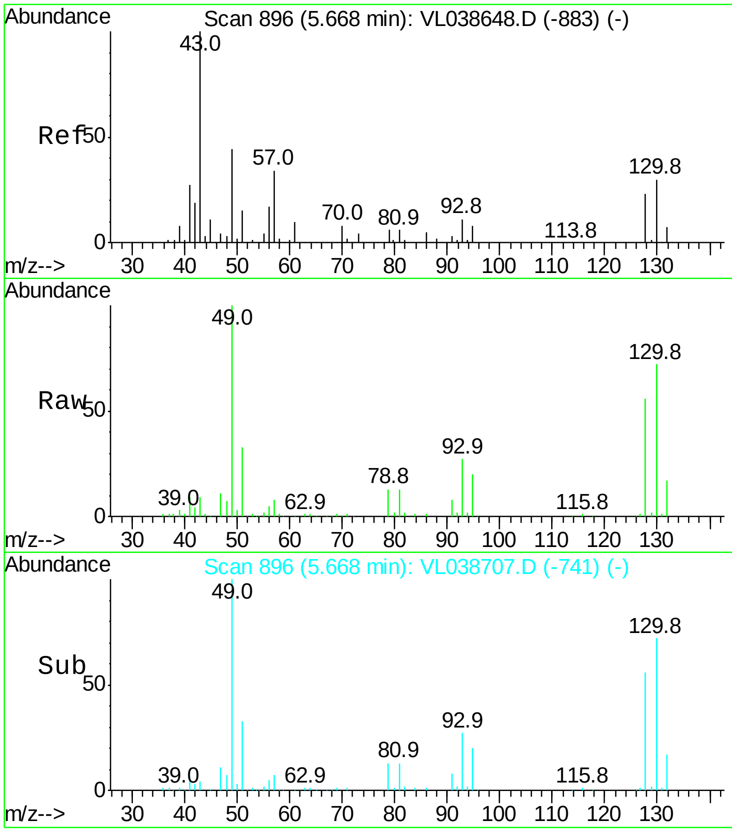




#23
Vinyl Acetate
Concen: 0.52 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.02 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt	Ion: 43	Resp:	33523
Ion	Ratio	Lower	Upper
43	100		
86	13.0	5.6	8.4#
42	14.1	6.8	10.2#
44	4.9	4.2	6.2



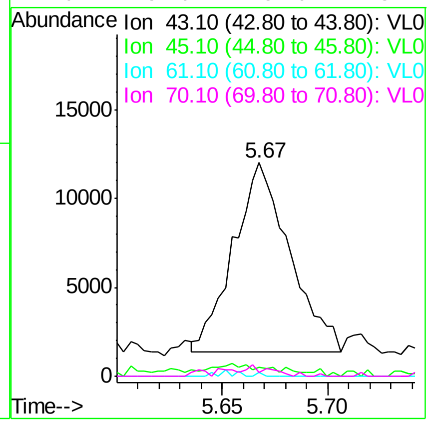


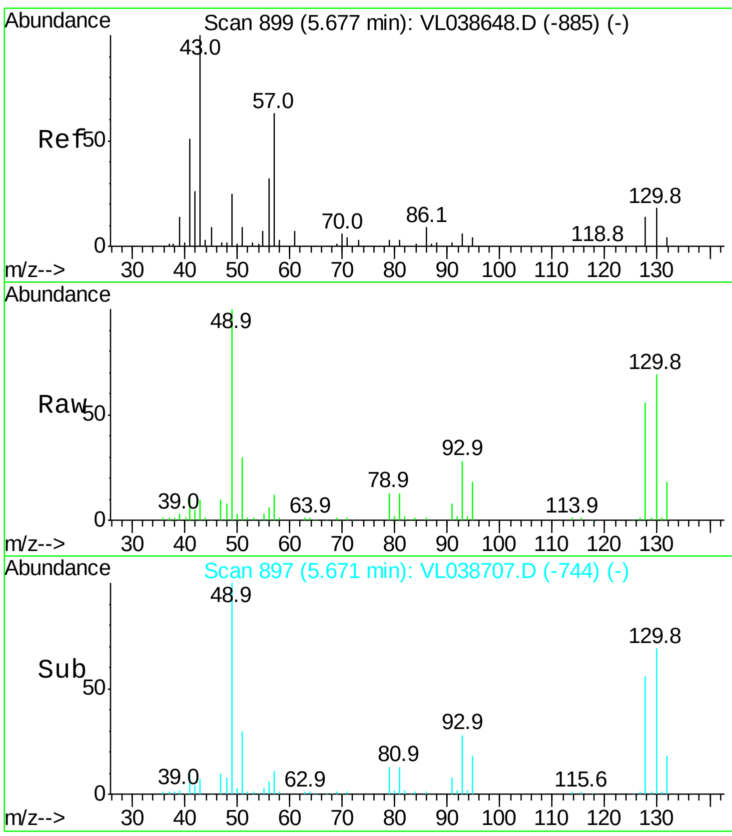
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.67
Delta R.T
Lab File:
Acq: 23 Ma

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 43 Resp: 19715

Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.2	12.4
61	1.1	8.3	12.5#
70	5.0	5.6	8.4#

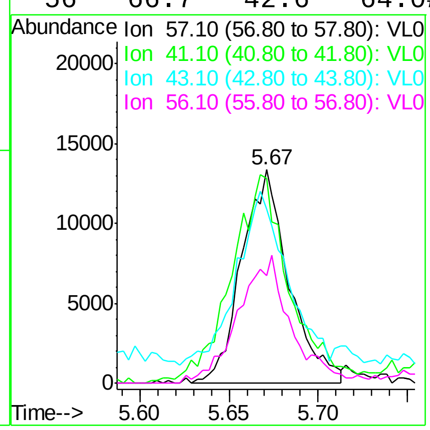


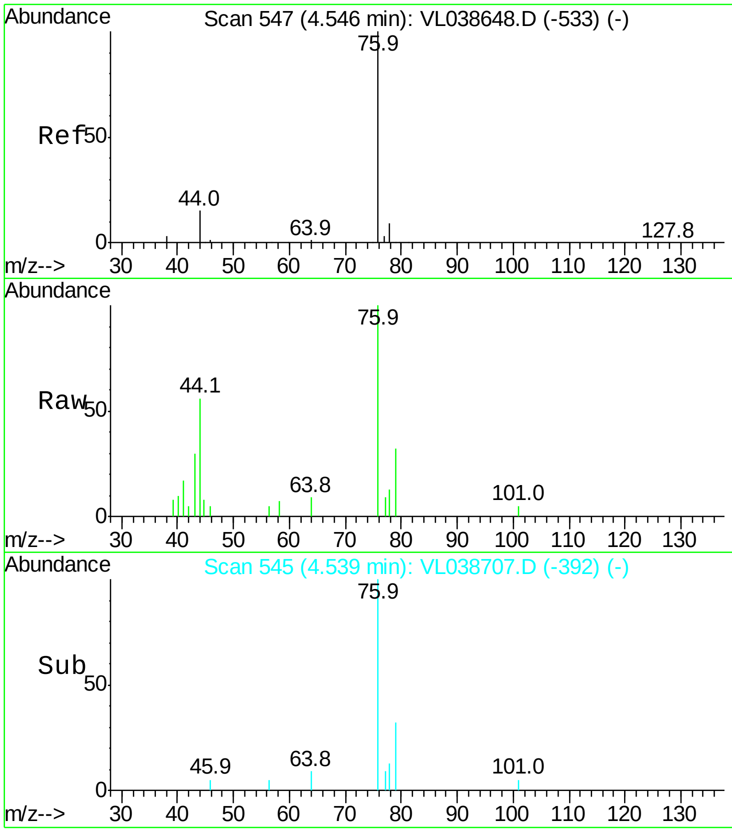


#26
Hexane
Concen: 0.33 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 57 Resp: 24652

Ion	Ratio	Lower	Upper
57	100		
41	121.7	67.0	100.4#
43	0.0	184.2	276.2#
56	66.7	42.6	64.0#



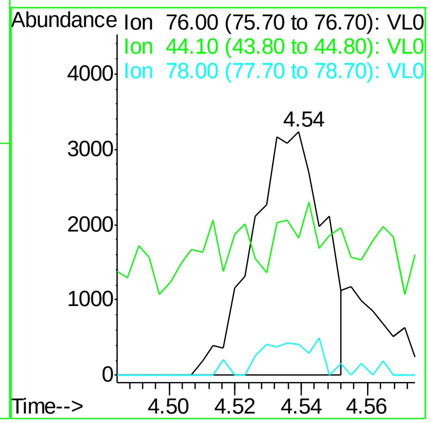


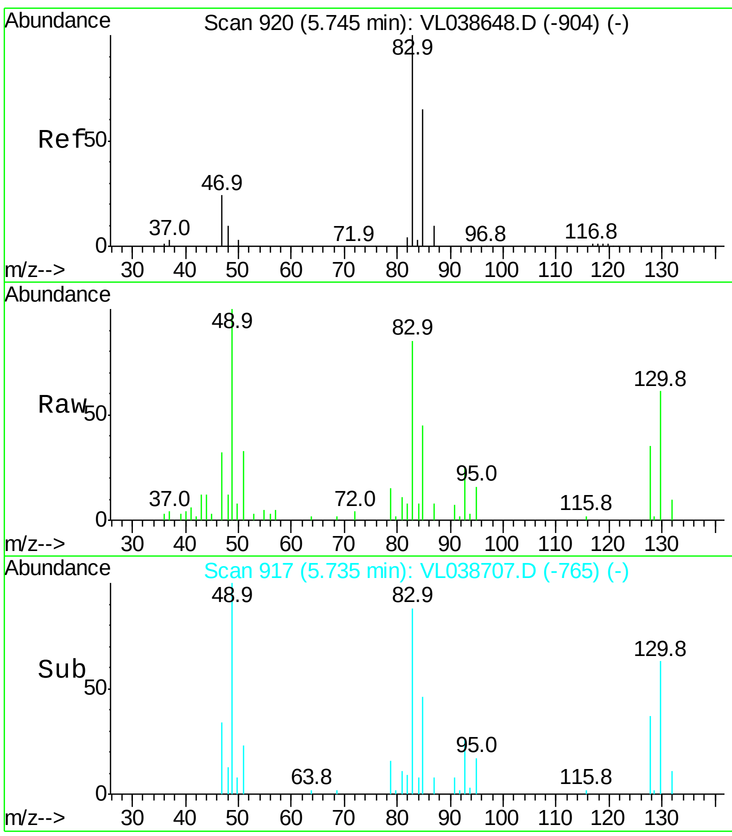
#27
Carbon Disulfide
Concen: 0.07 ppbv
RT: 4.54
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 76 Resp: 4857

Ion	Ratio	Lower	Upper
76	100		
44	17.7	12.4	18.6
78	13.5	7.8	11.8#

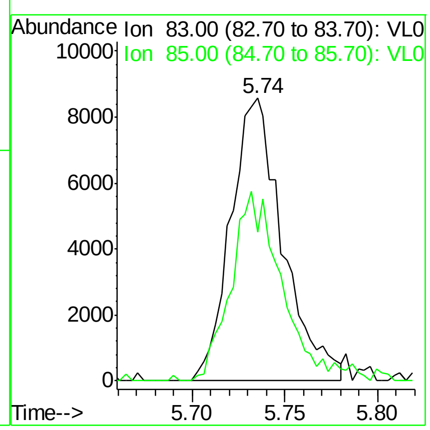


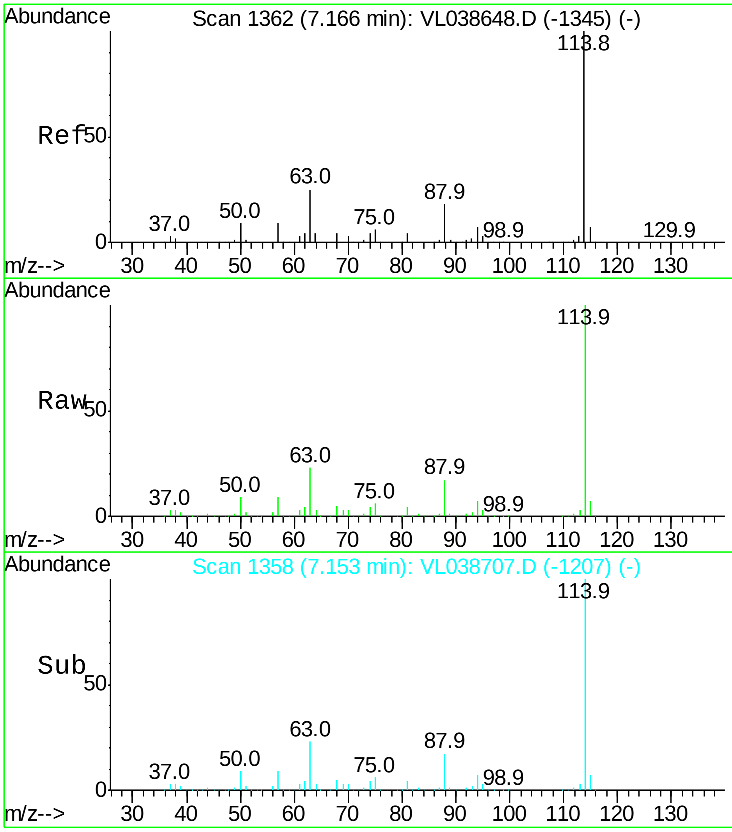


#29
Chloroform
Concen: 0.14 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 83 Resp: 16853

Ion	Ratio	Lower	Upper
83	100		
85	52.5	51.7	77.5



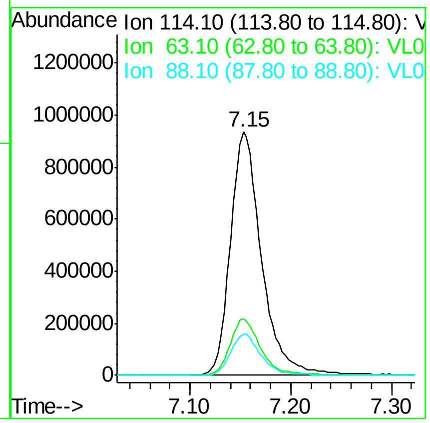


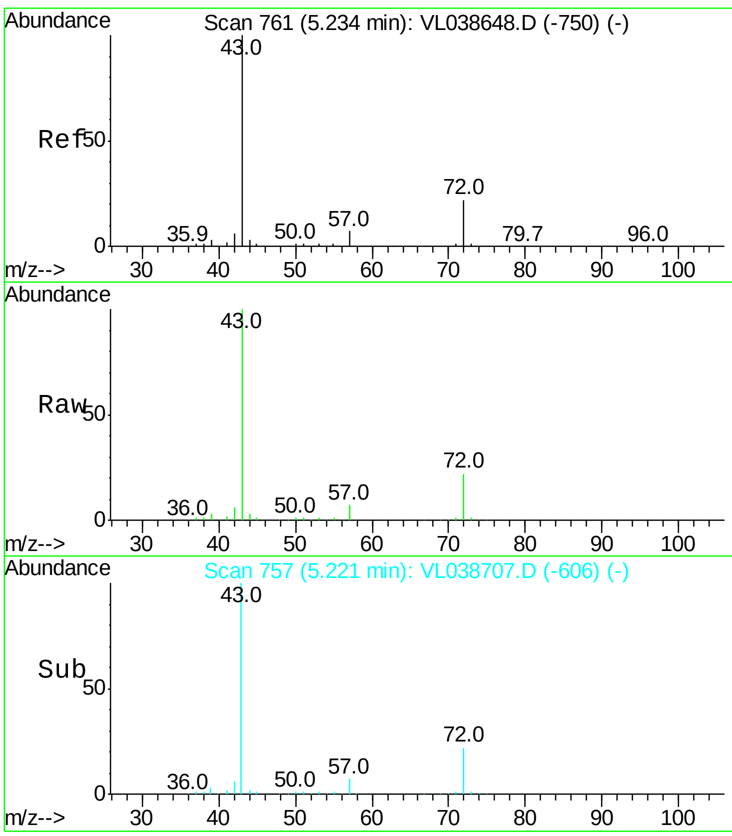
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.15
Delta R.T
Lab File:
Acq: 23 Ma

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion:114 Resp: 2005554

Ion	Ratio	Lower	Upper
114	100		
63	23.3	19.4	29.0
88	17.0	13.9	20.9

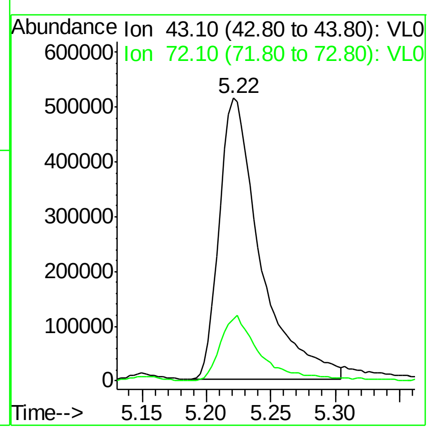


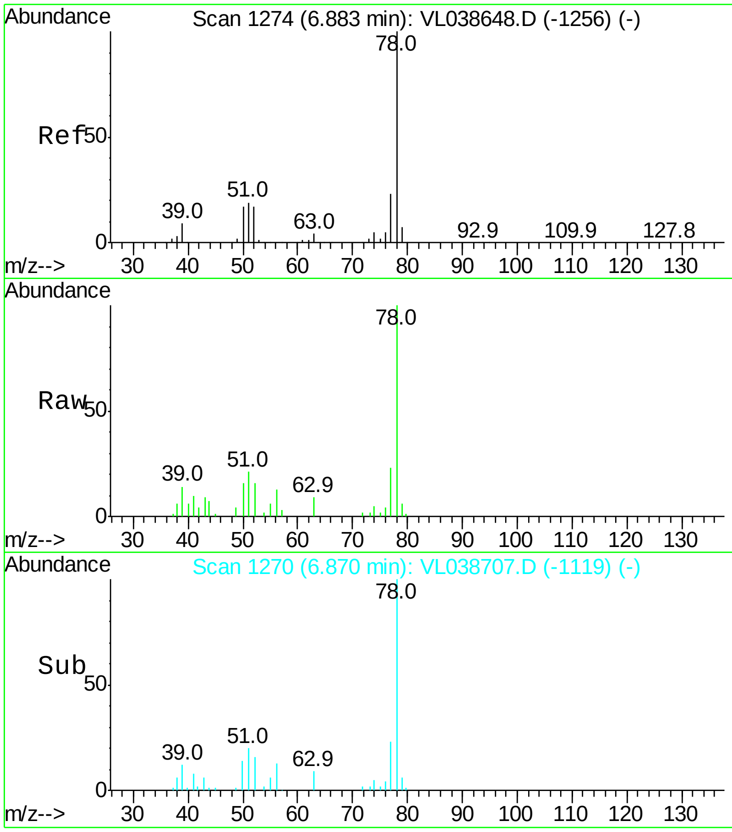


#34
2-Butanone
Concen: 14.37 ppbv
RT: 5.22 min   Scan# 757
Delta R.T.   -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022   6:19

Tgt Ion: 43 Resp: 1140867

Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.8	26.8

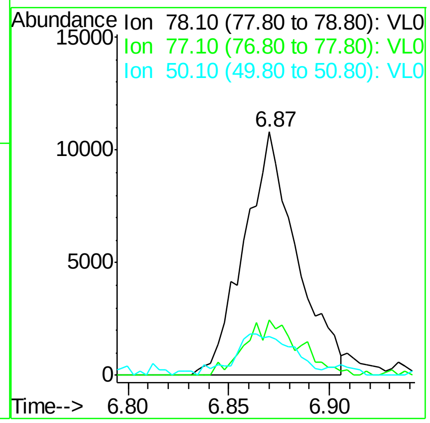


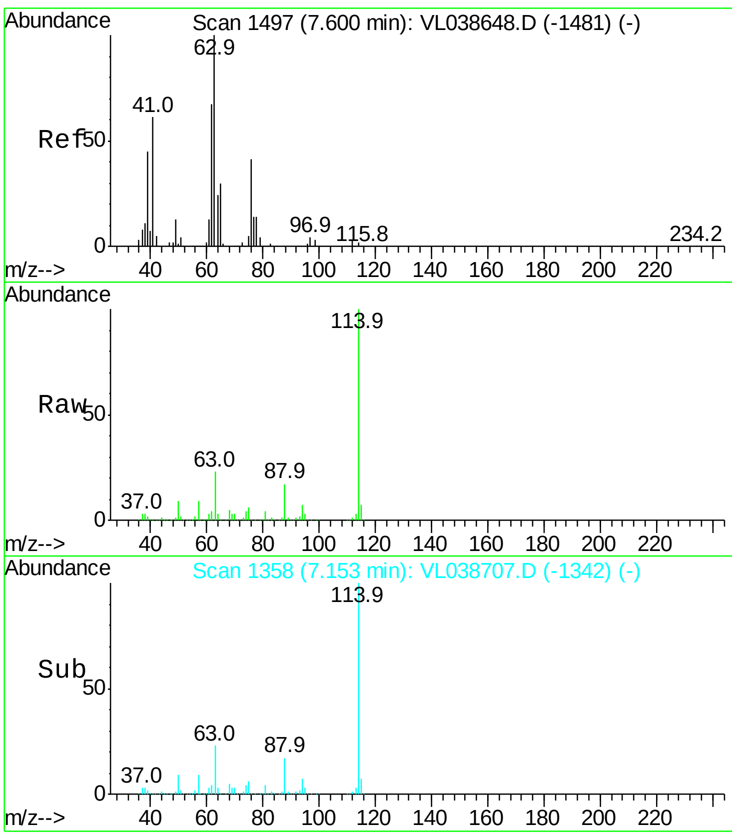


#36
Benzene
Concen: 0.13 ppbv
RT: 6.87
Delta R.T
Lab File:
Acq: 23 Ma

Instrument :
MSVOA_L
ClientSampleId :
C0P94

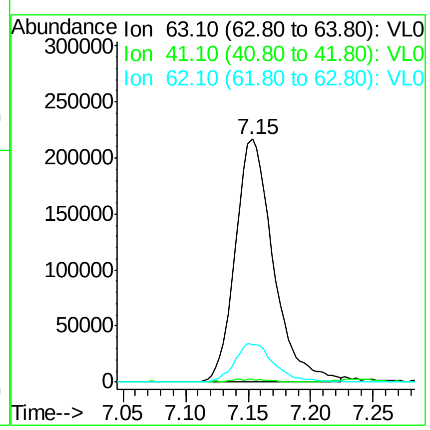
Tgt Ion: 78	Resp:	19613	
Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.1	27.1
50	14.5	13.6	20.4

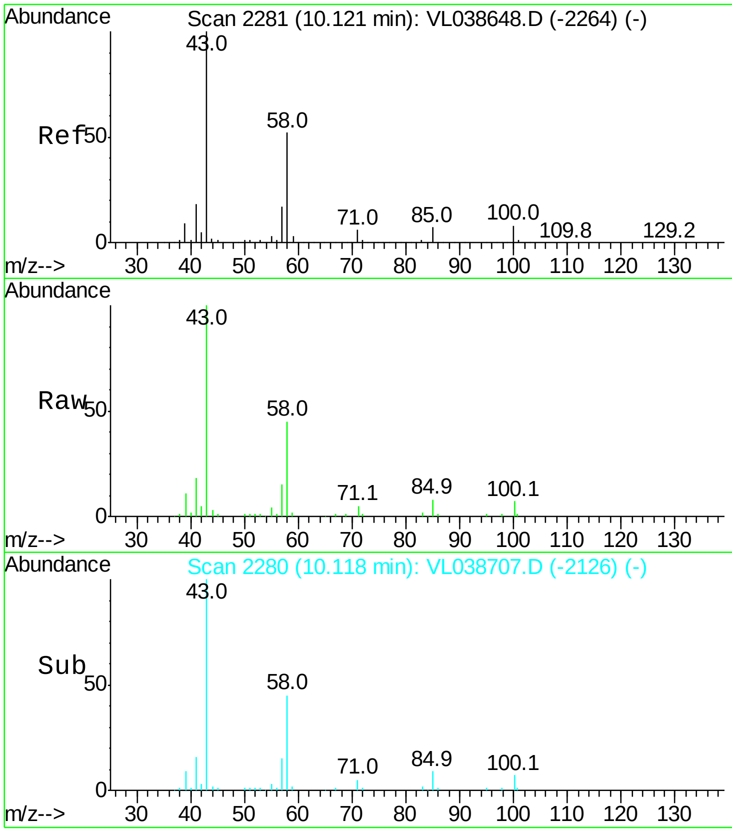




#39
1,2-Dichloropropane
Concen: 7.59 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.45 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 63	Resp:	459088	
Ion	Ratio	Lower	Upper
63	100		
41	0.7	49.0	73.6#
62	15.6	53.9	80.9#



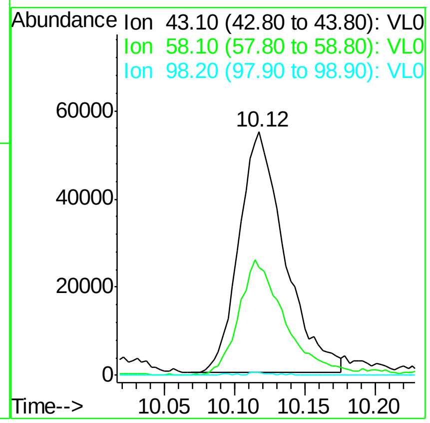


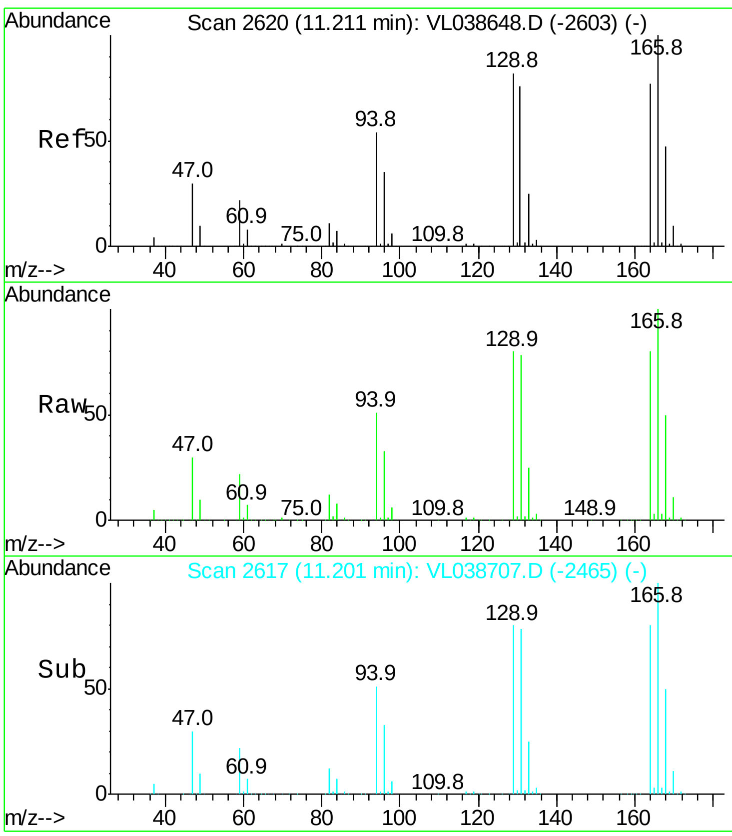
#51
2-Hexanone
Concen: 1.18 ppbv
RT: 10.12
Delta R.T
Lab File:
Acq: 23 Ma 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 43 Resp: 124950

Ion	Ratio	Lower	Upper
43	100		
58	50.5	41.2	61.8
98	0.8	0.2	0.4#

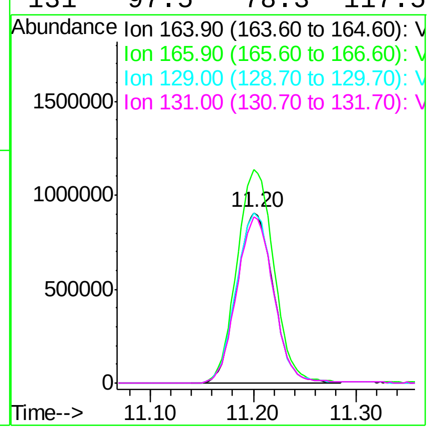


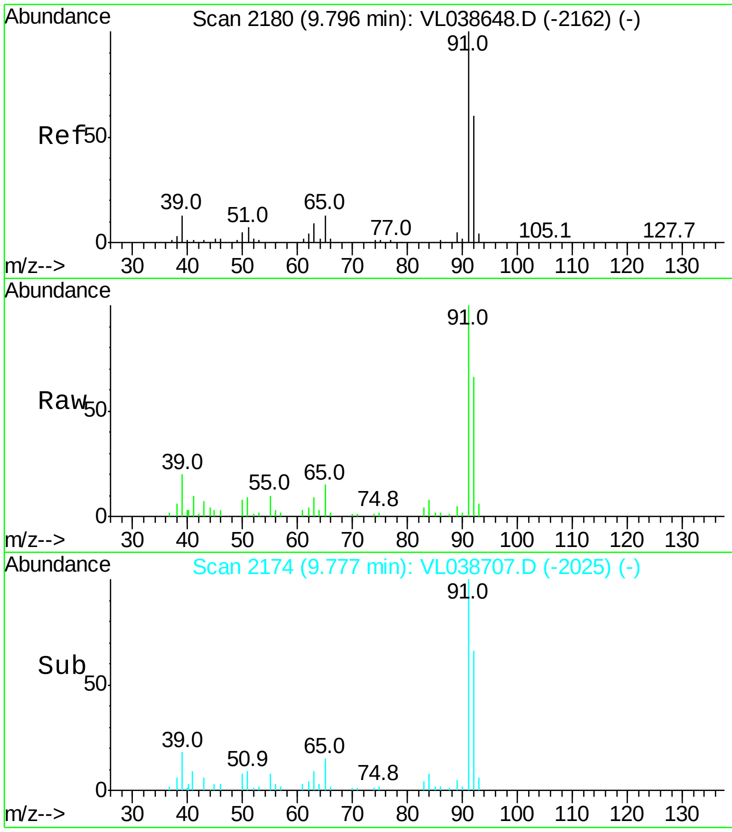


#52
Tetrachloroethene
Concen: 39.73 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.01 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion:164 Resp: 2250268

Ion	Ratio	Lower	Upper
164	100		
166	125.3	103.3	154.9
129	99.9	85.2	127.8
131	97.5	78.3	117.5



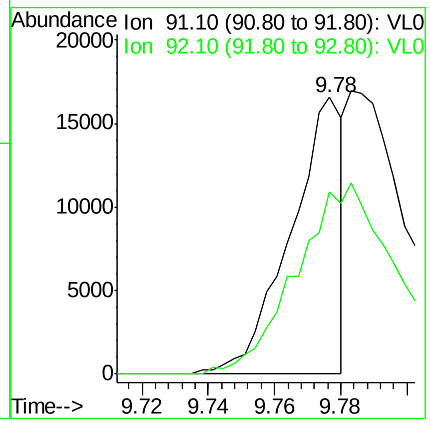


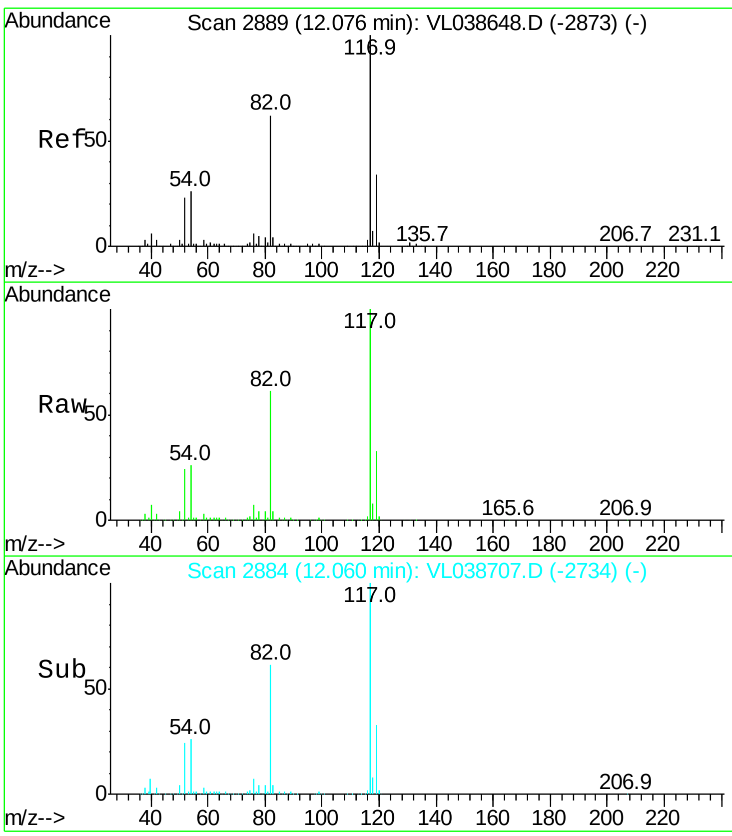
#53
Toluene
Concen: 0.11 ppbv
RT: 9.78
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 91 Resp: 18049

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.7	73.1#

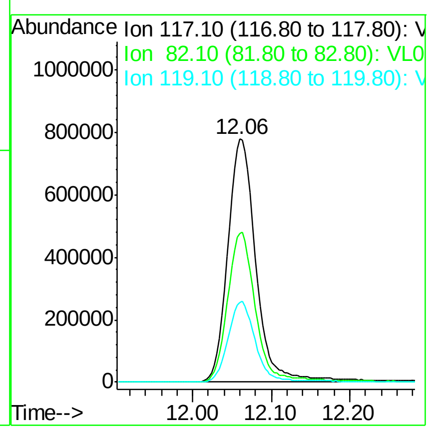


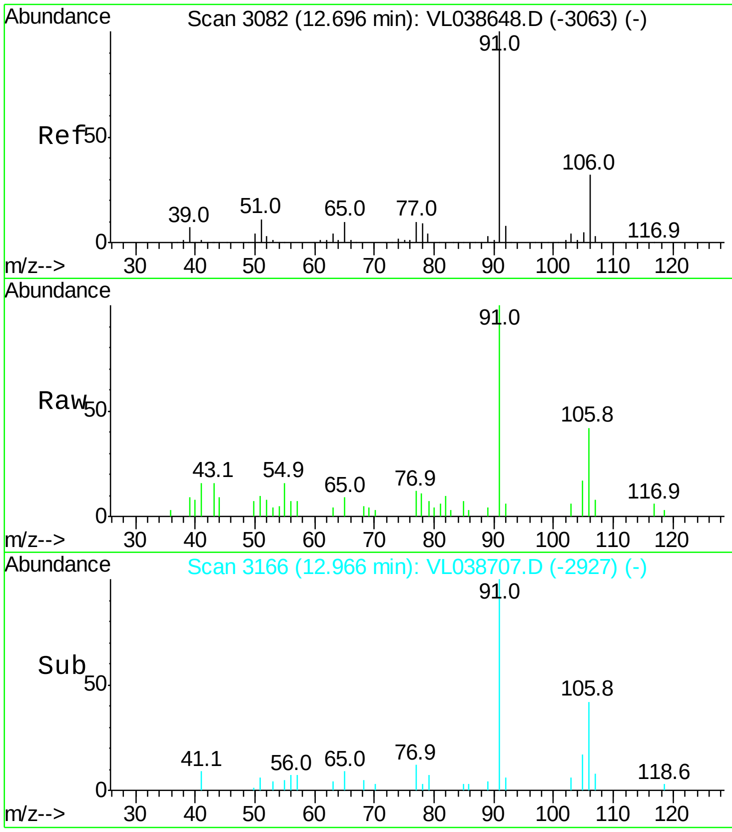


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion:117 Resp: 1920841

Ion	Ratio	Lower	Upper
117	100		
82	62.1	51.6	77.4
119	33.2	26.9	40.3

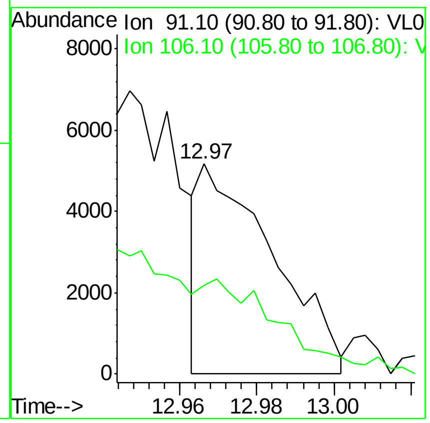


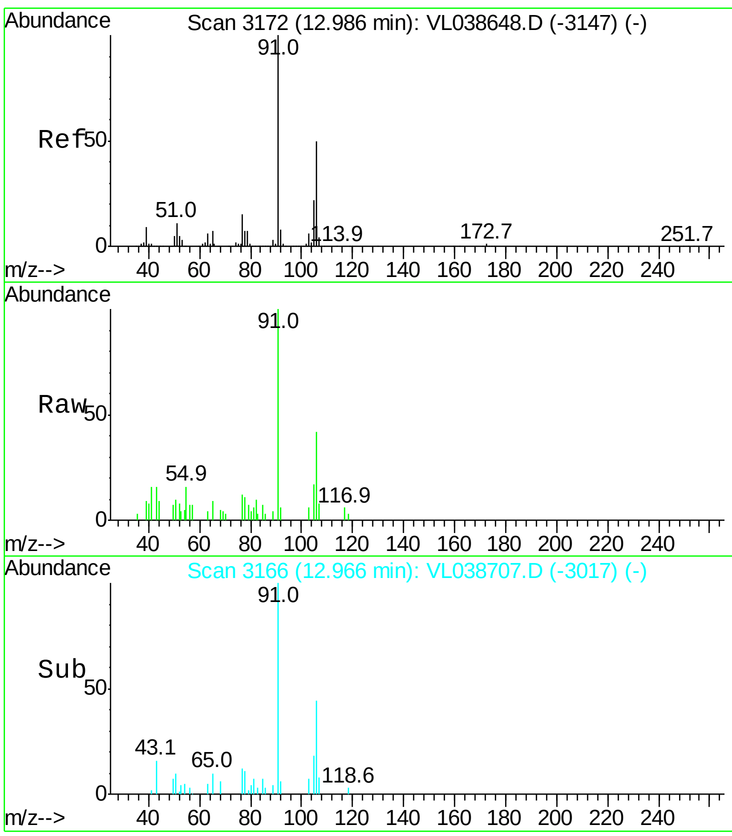


#58
Ethyl Benzene
Concen: 0.03 ppbv
RT: 12.97
Delta R.T
Lab File:
Acq: 23 Ma
Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 91 Resp: 6851

Ion	Ratio	Lower	Upper
91	100		
106	37.2	25.4	38.0

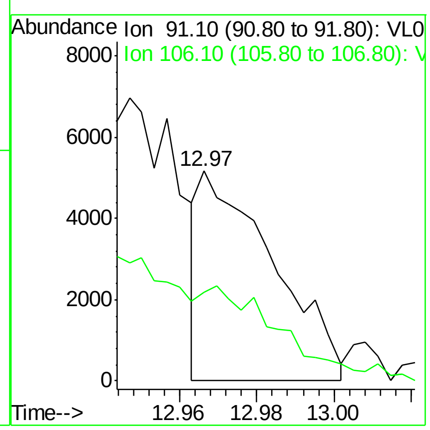


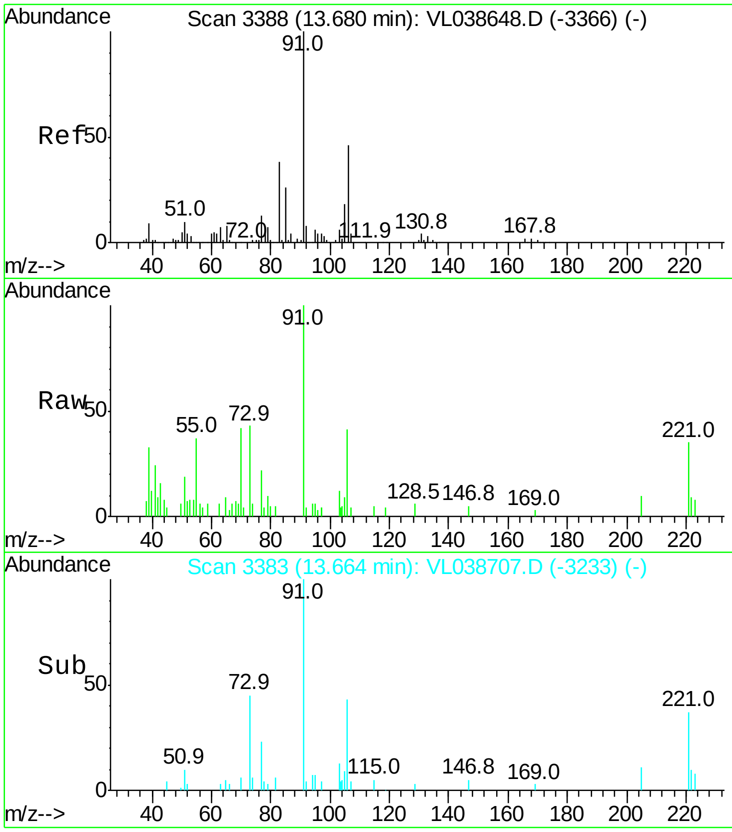


#59
m/p-Xylene
Concen: 0.03 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 91 Resp: 6851

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.2	55.8#



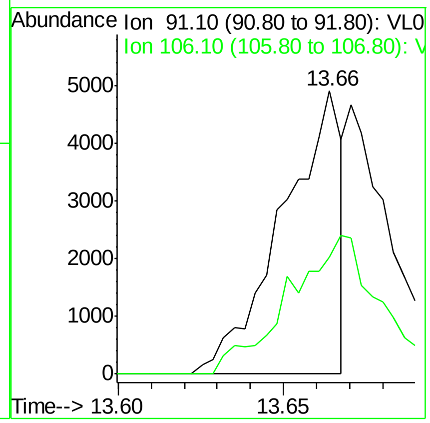


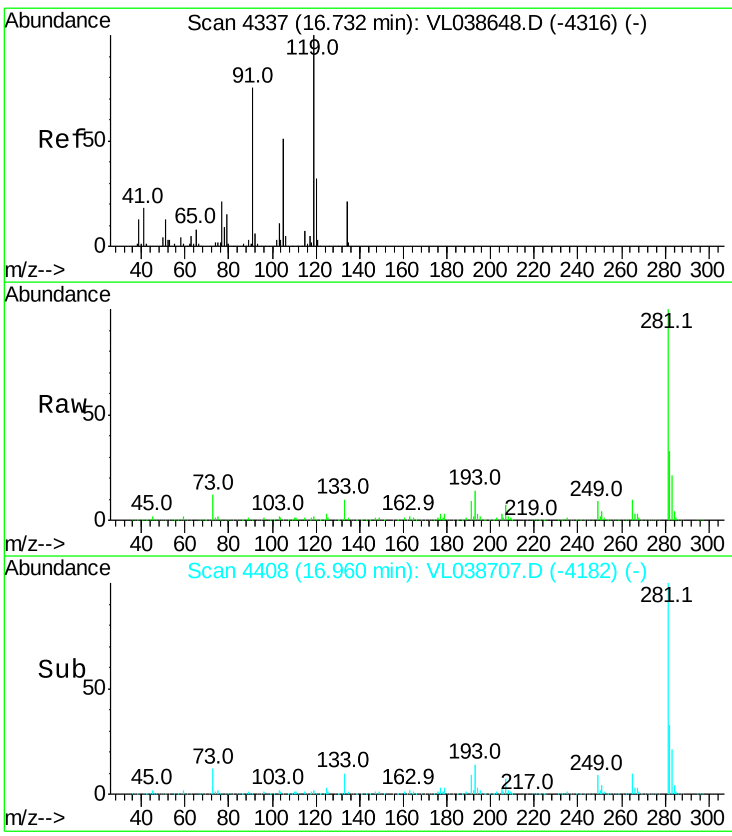
#60
o-Xylene
Concen: 0.03 ppbv
RT: 13.66
Delta R.T
Lab File:
Acq: 23 Ma 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 91 Resp: 6077

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.5	70.5#

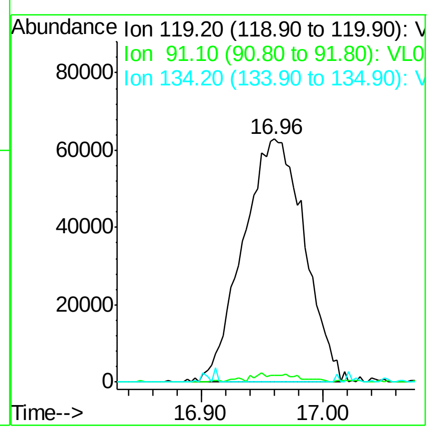


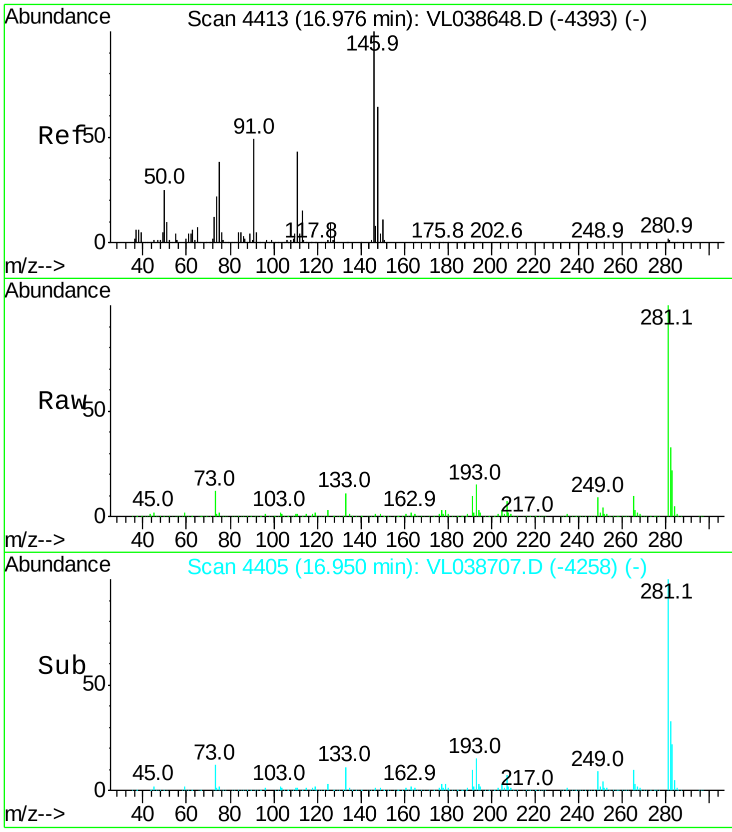


#65
tert-Butylbenzene
Concen: 0.87 ppbv
RT: 16.96 min Scan# 4408
Delta R.T. 0.23 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion:119 Resp: 220185

Ion	Ratio	Lower	Upper
119	100		
91	3.0	61.2	91.8#
134	0.7	16.3	24.5#



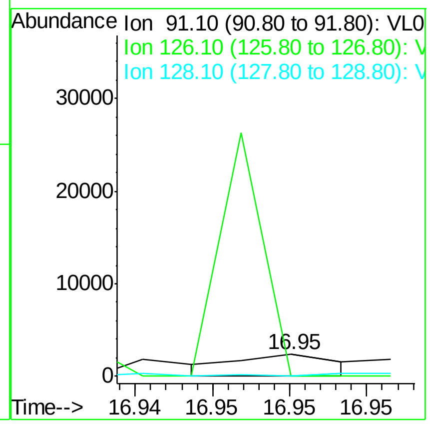


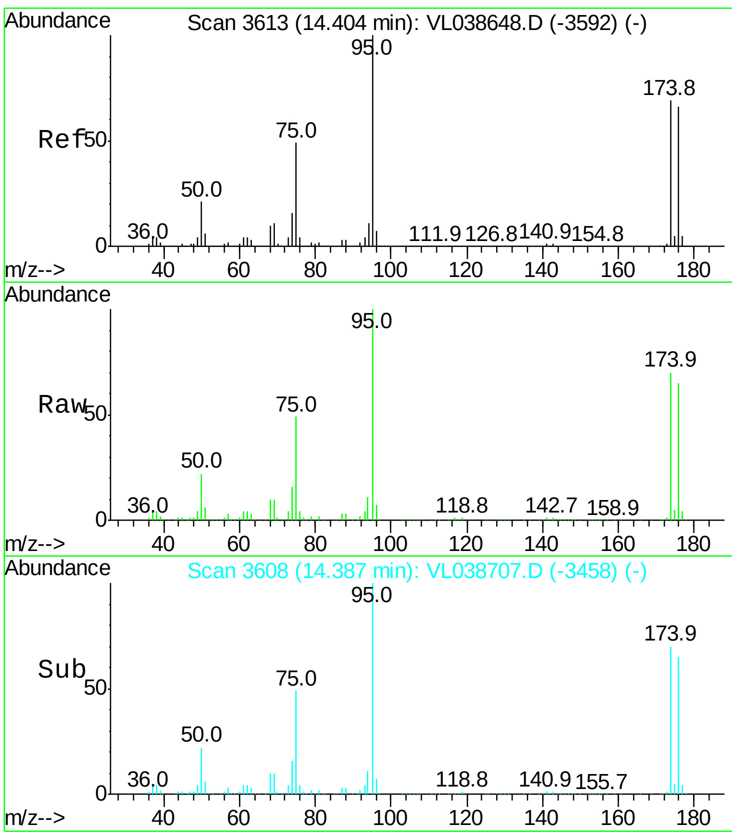
#66
Benzyl Chloride
Concen: 0.02 ppbv
RT: 16.95
Delta R.T
Lab File:
Acq: 23 Mar 2022 6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion: 91 Resp: 1084

Ion	Ratio	Lower	Upper
91	100		
126	687.9	14.3	21.5#
128	0.0	4.6	6.8#

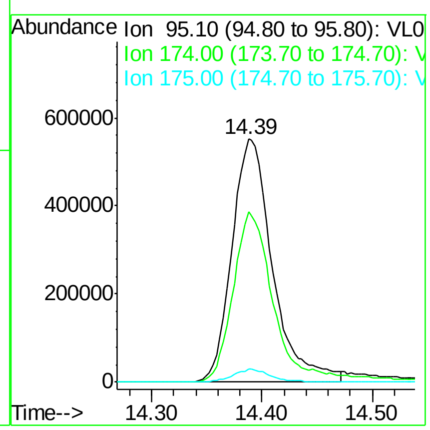


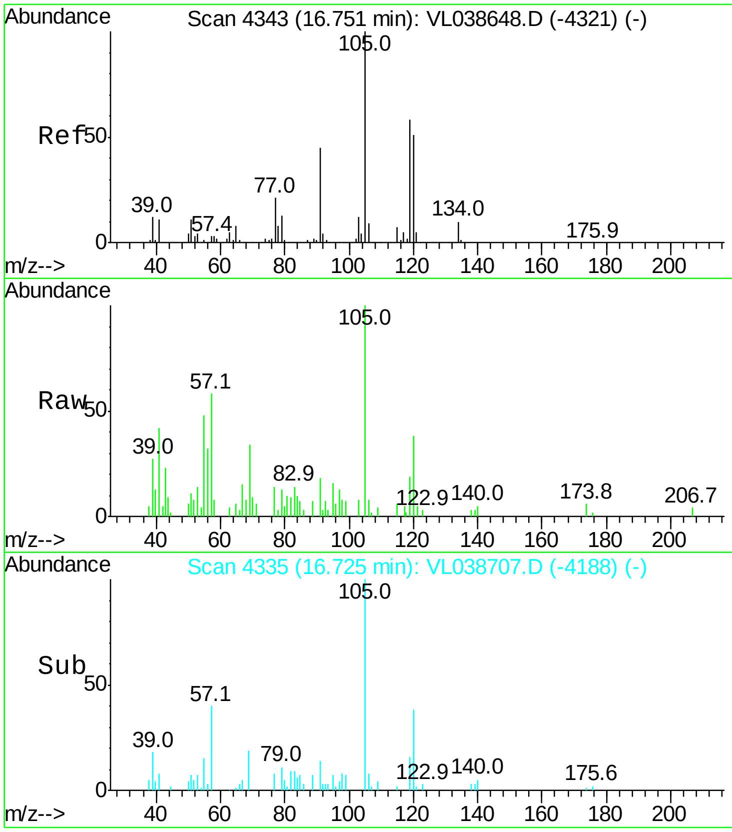


#68
1-Bromo-4-Fluorobenzene
Concen: 9.59 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.02 min
Lab File: VL038707.D
Acq: 23 Mar 2022 6:19

Tgt Ion: 95 Resp: 1412038

Ion	Ratio	Lower	Upper
95	100		
174	72.3	56.1	84.1
175	5.2	4.2	6.2



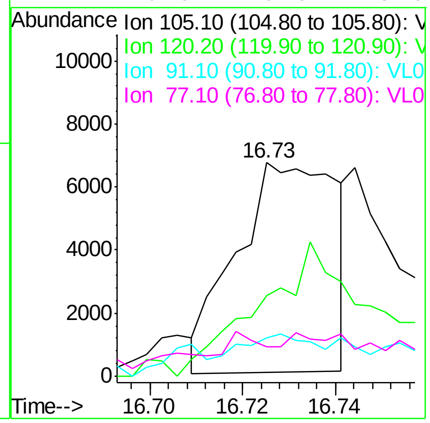


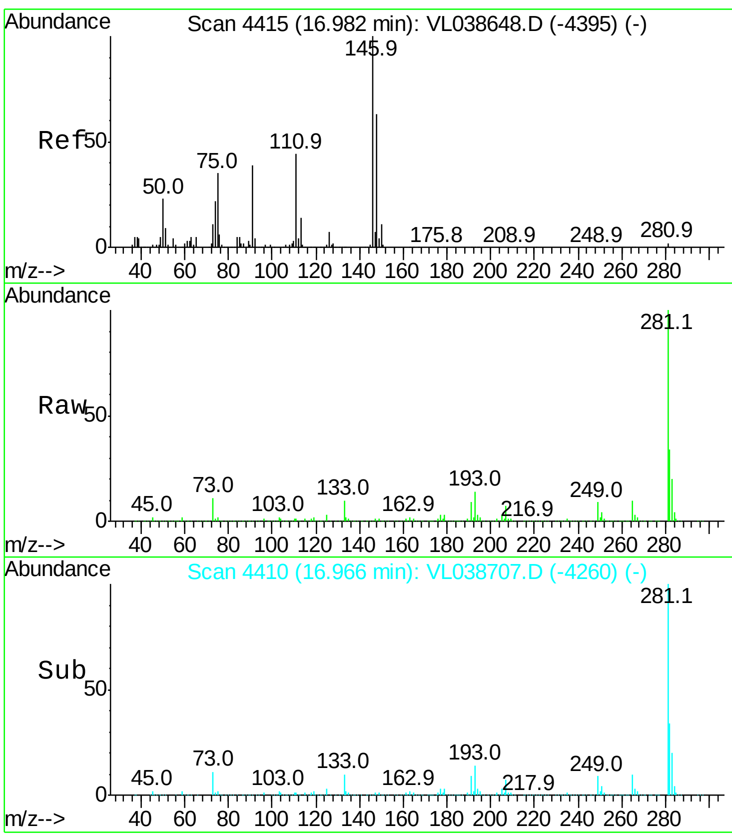
#74
1,2,4-Trimethylbenzene
Concen: 0.05 ppbv
RT: 16.73
Delta R.T
Lab File:
Acq: 23 Ma 2022   6:19

Instrument :
MSVOA_L
ClientSampleId :
C0P94

Tgt Ion:105 Resp: 9908

Ion	Ratio	Lower	Upper
105	100		
120	39.9	40.5	60.7#
91	7.7	35.9	53.9#
77	0.9	16.6	25.0#





#75
1,3-Dichlorobenzene
Concen: 0.18 ppbv
RT: 16.97 min   Scan# 4410
Delta R.T.   -0.02 min
Lab File: VL038707.D
Acq: 23 Mar 2022   6:19

Tgt Ion:146 Resp: 24505

Ion	Ratio	Lower	Upper
146	100		
111	344.2	22.2	66.6#
148	211.0	32.5	97.5#