Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021422\
Data File : VL038343.D
Acq On : 14 Feb 2022 16:55
Operator : SY/AP
Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : VIBLK

Quant Time: Feb 15 00:39:53 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 24 14:12:48 2022
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	852028	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2346966	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1993977	10.00	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1500028	9.91	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.04	85	10464	0.06	ppbv #	87
3) Chlorodifluoromethane	2.99	51	15984	0.09	ppbv #	91
4) Chloromethane	3.14	50	3273	0.06	ppbv #	56
5) Vinyl Chloride	3.25	62	1965	0.03	ppbv #	78
6) Bromomethane	3.47	94	1301	0.04	ppbv #	78
8) Dichlorotetrafluoroethane	3.18	85	12610	0.09	ppbv	90
9) Propene	3.01	41	3574	0.06	ppbv #	15
10) Heptane	8.10	43	4560	0.03	ppbv #	1
11) Trichlorofluoromethane	3.94	101	11195	0.08	ppbv	92
13) Ethanol	3.62	45	814	0.14	ppbv #	37
14) Bromoethene	3.73	108	1440	0.03	ppbv #	1
15) Acetone	3.86	43	8024	0.11	ppbv #	48
16) 1,3-Butadiene	3.32	39	3315	0.06	ppbv #	58
18) 1,1-Dichloroethene	4.28	96	2593	0.06	ppbv #	60
20) Methylene Chloride	4.33	84	7118	0.16	ppbv #	92
21) Allyl Chloride	4.40	41	2389	0.04	ppbv #	1
24) 1,1-Dichloroethane	5.00	63	6114	0.06	ppbv #	89
25) Ethyl Acetate	5.68	43	17204	0.08	ppbv #	97
26) Hexane	5.67	57	9100	0.09	ppbv #	85
28) Methyl tert-Butyl Ether	5.05	73	6117	0.06	ppbv #	64
29) Chloroform	5.74	83	13593	0.09	ppbv	99
32) 1,1,1-Trichloroethane	6.49	97	5717	0.04	ppbv #	12
34) 2-Butanone	5.25	43	2717	0.04	ppbv #	53
35) Carbon Tetrachloride	7.00	117	11901	0.07	ppbv #	78
36) Benzene	6.87	78	10624	0.05	ppbv #	89
37) 1,2-Dichloroethane	6.29	62	4620	0.04	ppbv #	80
39) 1,2-Dichloropropane	7.15	63	594589	7.06	ppbv #	25
42) Bromodichloromethane	7.77	83	8059	0.05	ppbv #	86
44) 2,2,4-Trimethylpentane	7.85	57	13944	0.04	ppbv #	27
52) Tetrachloroethene	11.20	164	37893	0.53	ppbv	89
53) Toluene	9.78	91	14452	0.06	ppbv	87
56) 1,1,1,2-Tetrachloroethane	12.10	131	4300	0.05	ppbv #	30
57) Chlorobenzene	12.12	112	10375	0.07	ppbv #	72
59) m/p-Xylene	12.97	91	9810	0.04	ppbv #	32
61) Styrene	13.50	104	3493	0.03	ppbv #	24
63) 1,1,2,2-Tetrachloroethane	13.66	83	10982	0.06	ppbv	78
67) sec-Butylbenzene	17.27	105	13103	0.04	ppbv #	59
71) 2-Chlorotoluene	15.43	91	15782	0.07	ppbv	98

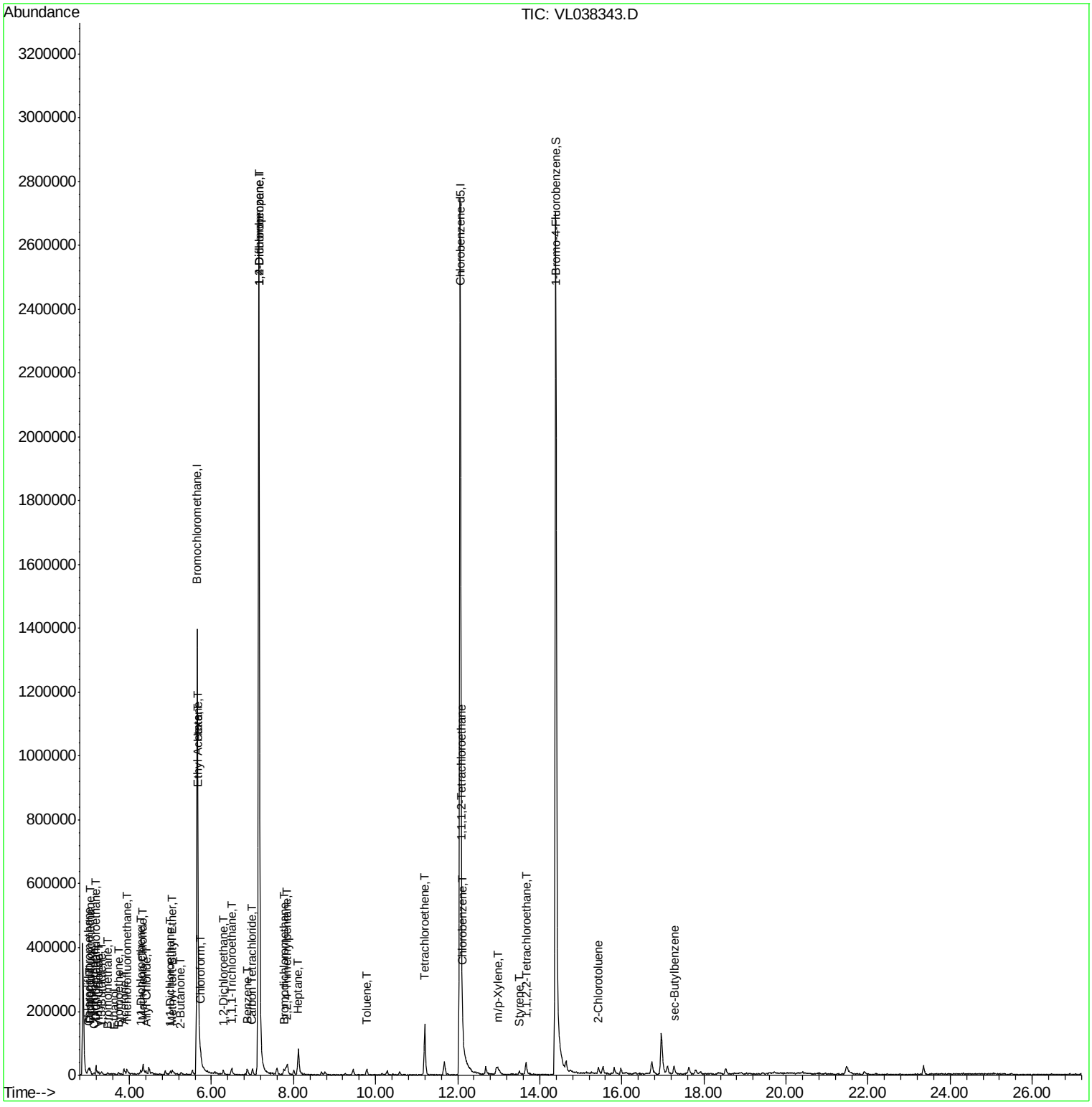
(#) = qualifier out of range (m) = manual integration (+) = signals summed

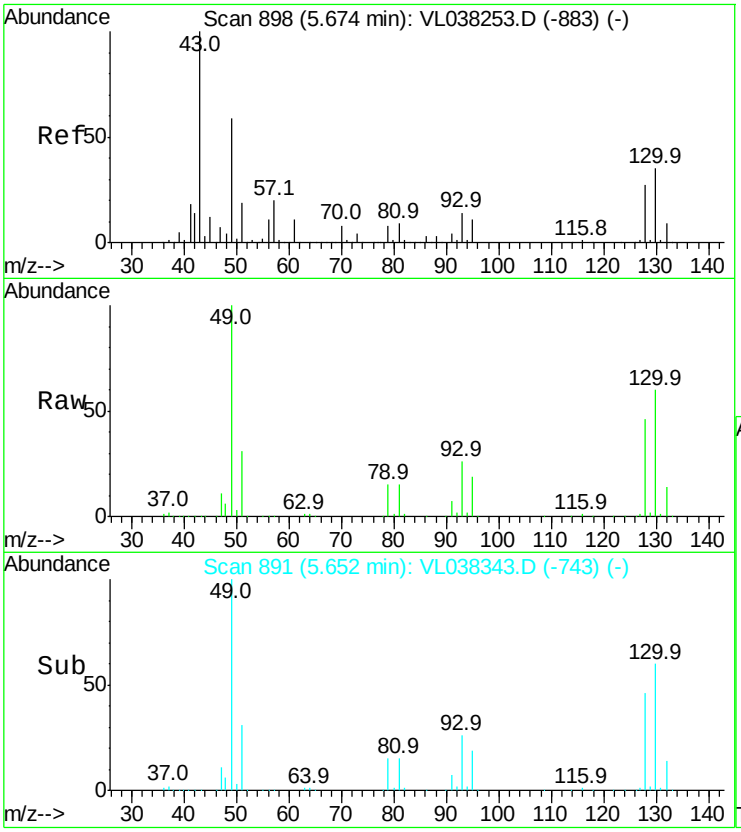
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021422\
Data File : VL038343.D
Acq On : 14 Feb 2022 16:55
Operator : SY/AP
Sample : VIBLK
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Feb 15 00:39:53 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 24 14:12:48 2022
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration



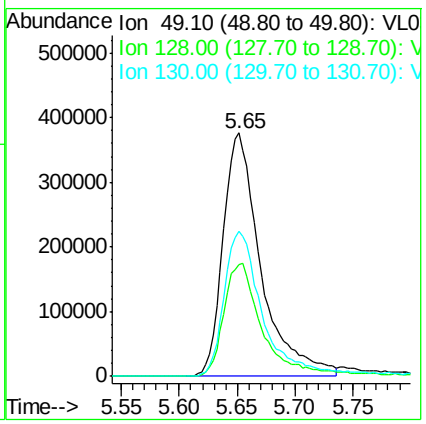


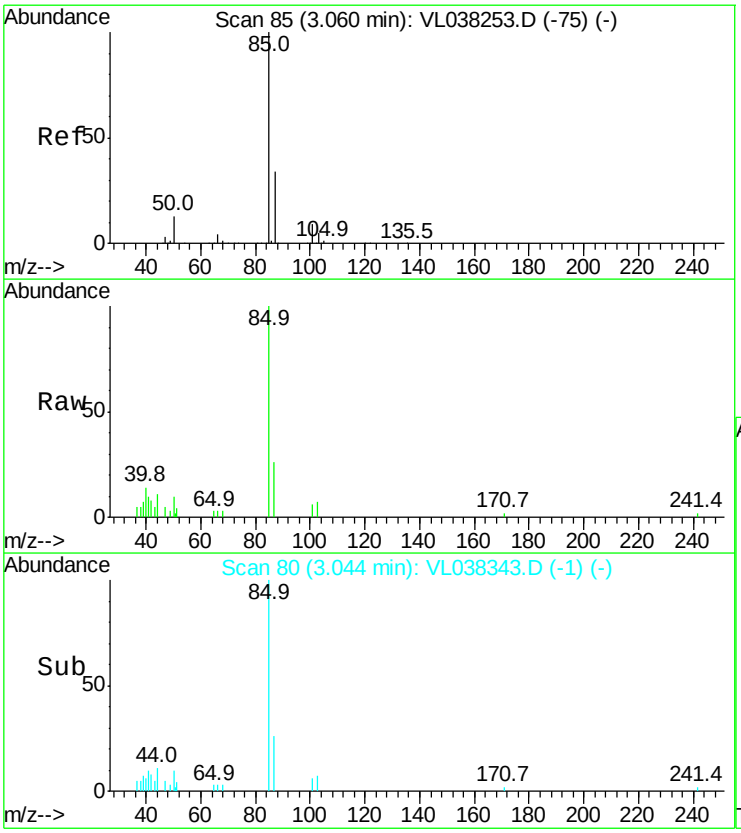
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.65
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 49 Resp: 852028

Ion	Ratio	Lower	Upper
49	100		
128	48.9	24.5	73.5
130	63.4	30.1	90.5

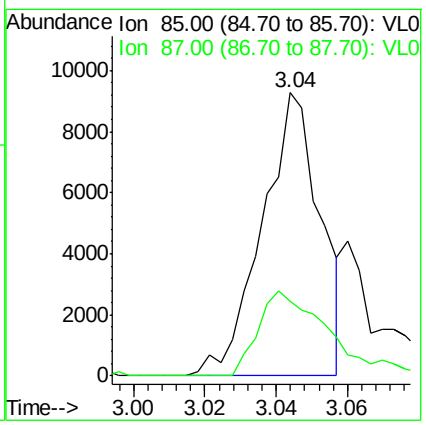


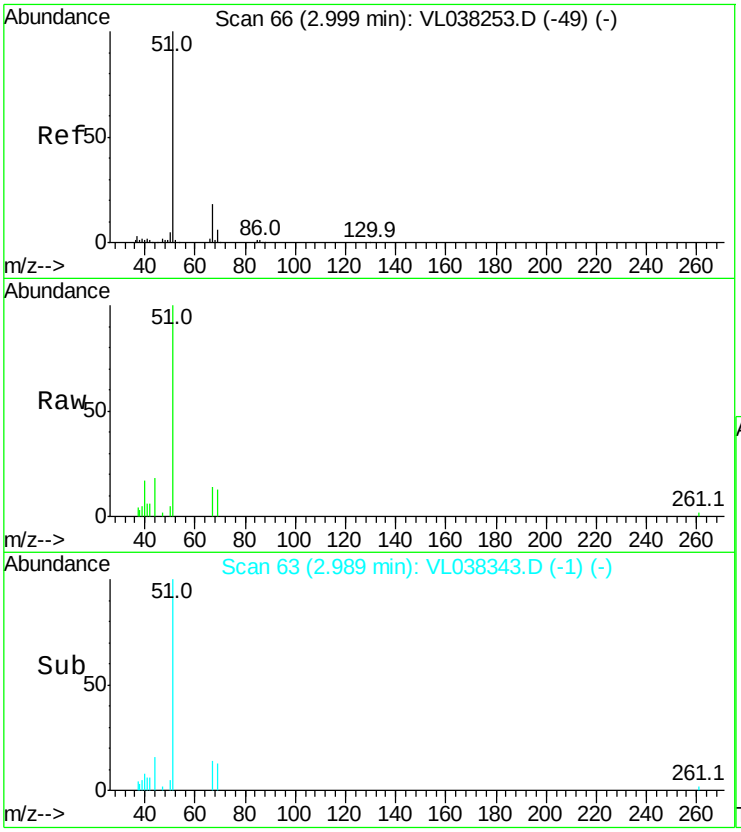


#2
Dichlorodifluoromethane
Concen: 0.06 ppbv
RT: 3.04 min Scan# 80
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 85 Resp: 10464

Ion	Ratio	Lower	Upper
85	100		
87	26.2	27.0	40.6#



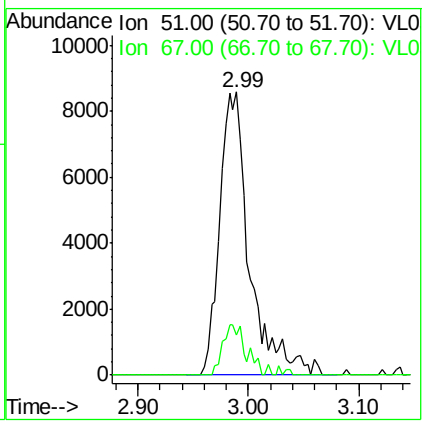


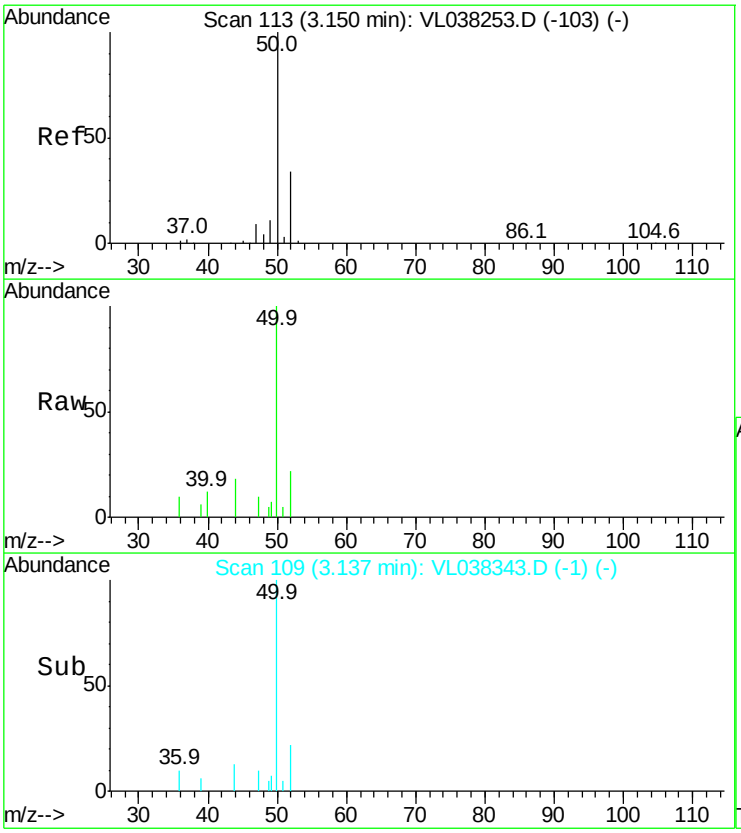
#3
Chlorodifluoromethane
Concen: 0.09 ppbv
RT: 2.99
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 51 Resp: 15984

Ion	Ratio	Lower	Upper
51	100		
67	13.9	14.4	21.6#

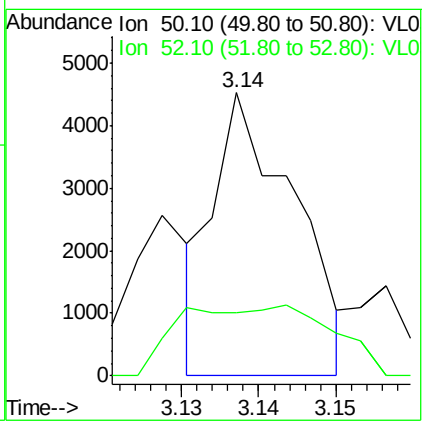


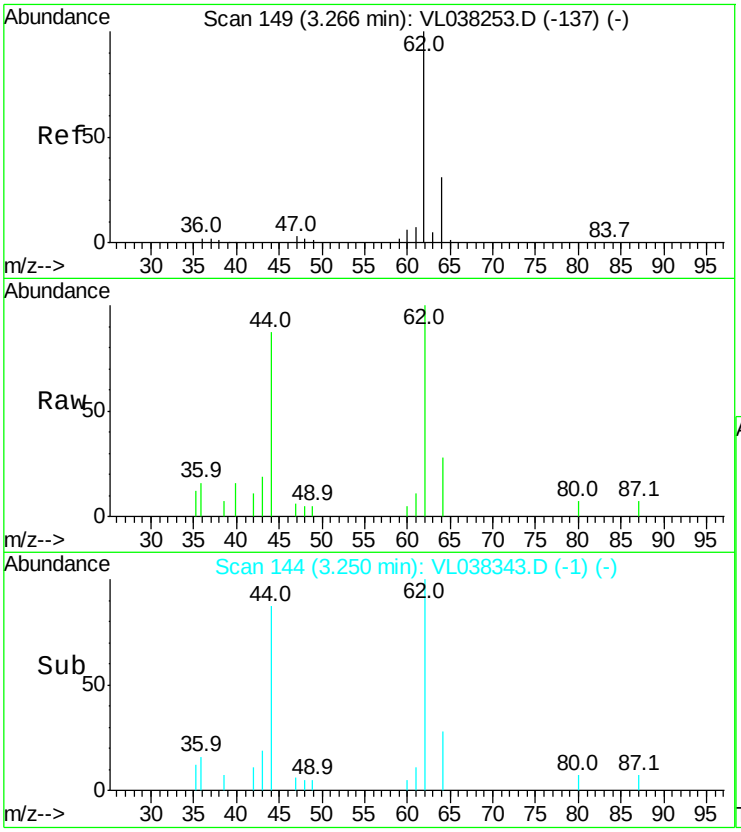


#4
Chloromethane
Concen: 0.06 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.01 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 50 Resp: 3273

Ion	Ratio	Lower	Upper
50	100		
52	8.6	27.1	40.7#



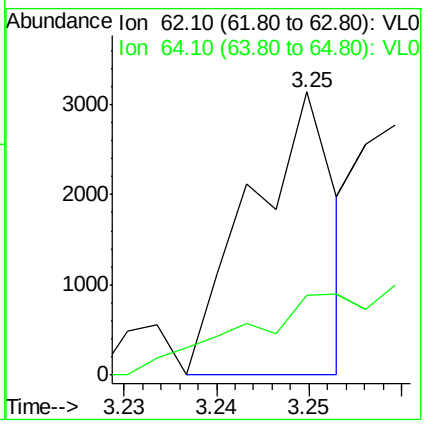


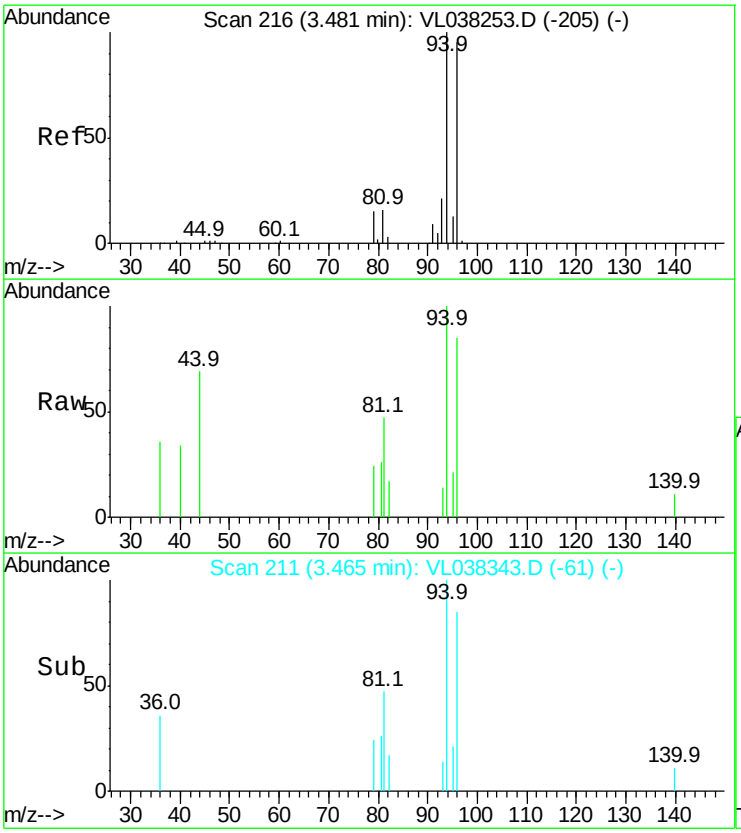
#5
Vinyl Chloride
Concen: 0.03 ppbv
RT: 3.25
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 62 Resp: 1965

Ion	Ratio	Lower	Upper
62	100		
64	18.5	24.4	36.6#

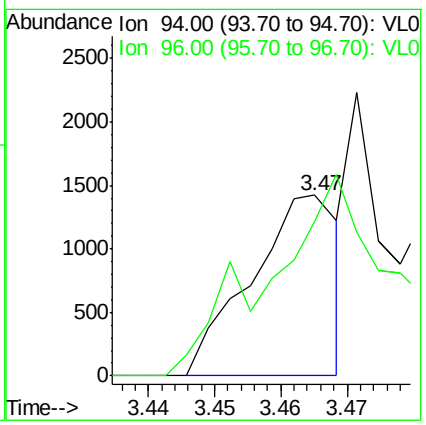


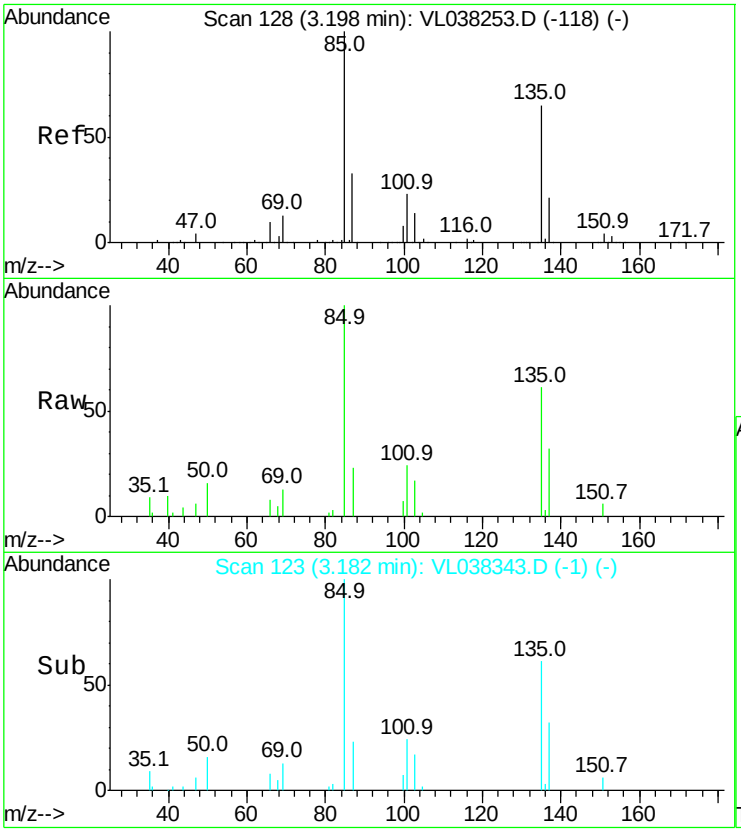


#6
Bromomethane
Concen: 0.04 ppbv
RT: 3.47 min Scan# 211
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 94 Resp: 1301

Ion	Ratio	Lower	Upper
94	100		
96	73.3	76.0	114.0#



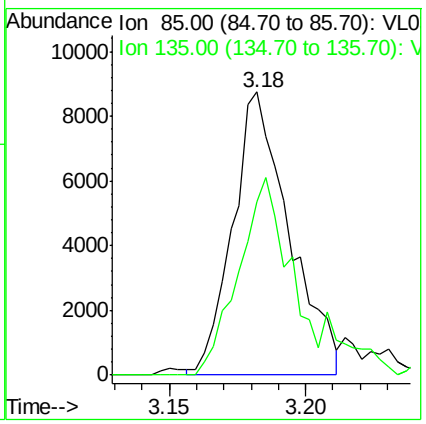


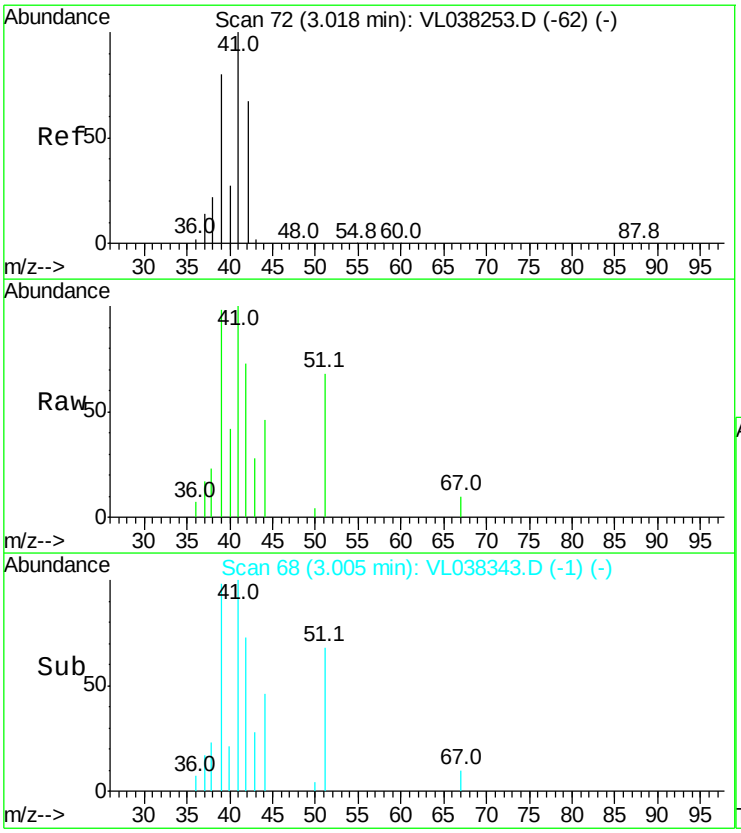
#8
Dichlorotetrafluoroethane
Concen: 0.09 ppbv
RT: 3.18
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 85 Resp: 12610

Ion	Ratio	Lower	Upper
85	100		
135	75.1	53.7	80.5

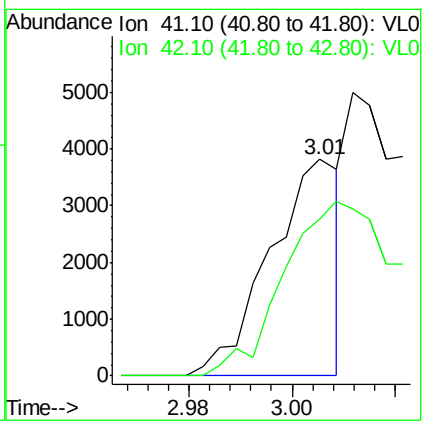


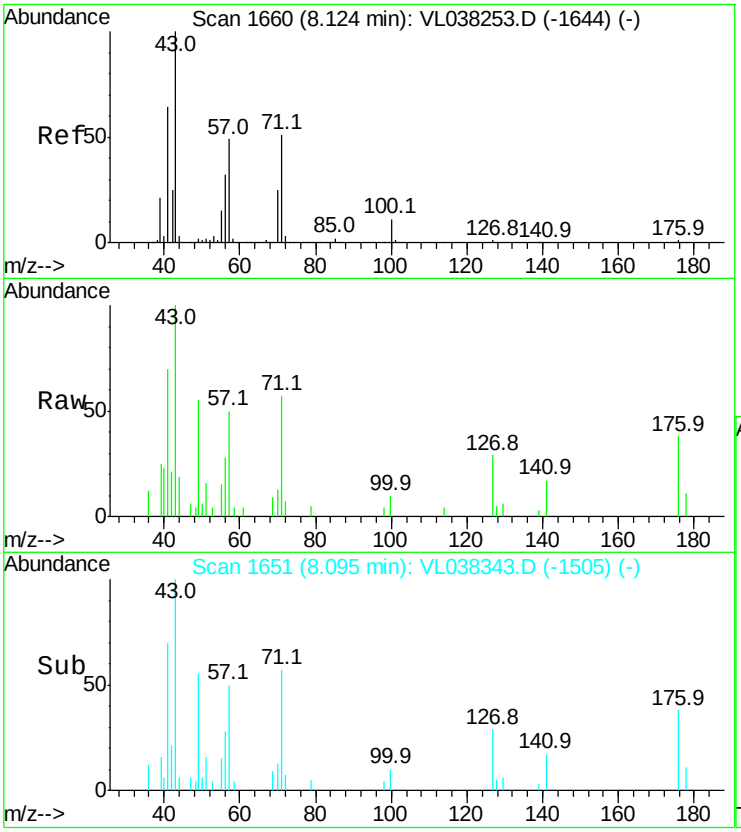


#9
Propene
Concen: 0.06 ppbv
RT: 3.01 min Scan# 68
Delta R.T. -0.01 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 41 Resp: 3574

Ion	Ratio	Lower	Upper
41	100		
42	0.0	54.9	82.3#



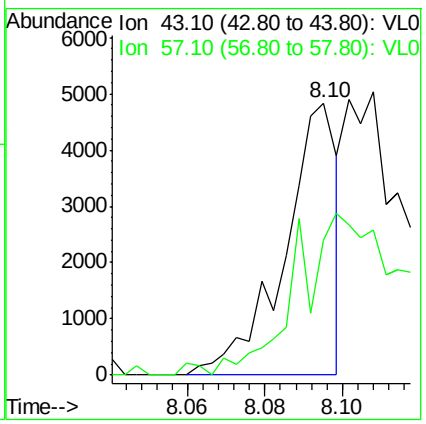


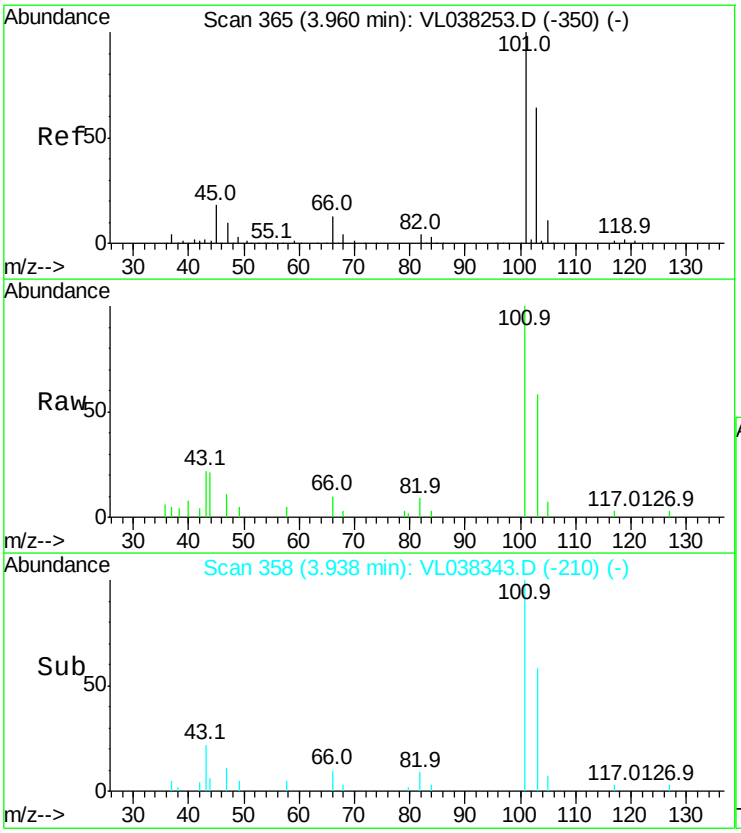
#10
Heptane
Concen: 0.03 ppbv
RT: 8.10
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 43 Resp: 4560

Ion	Ratio	Lower	Upper
43	100		
57	133.5	39.5	59.3#

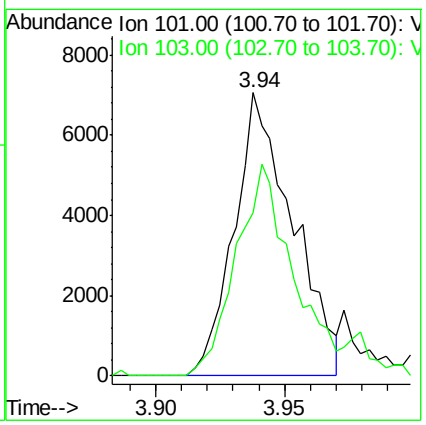


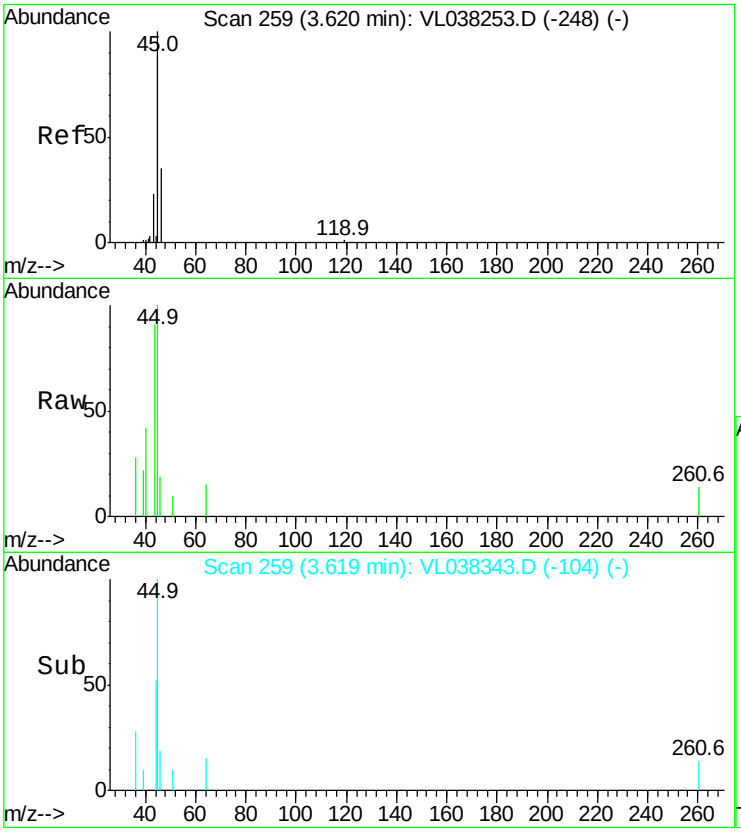


#11
Trichlorofluoromethane
Concen: 0.08 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:101 Resp: 11195

Ion	Ratio	Lower	Upper
101	100		
103	57.6	51.2	76.8



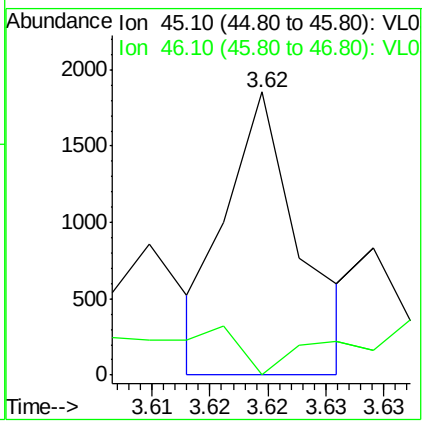


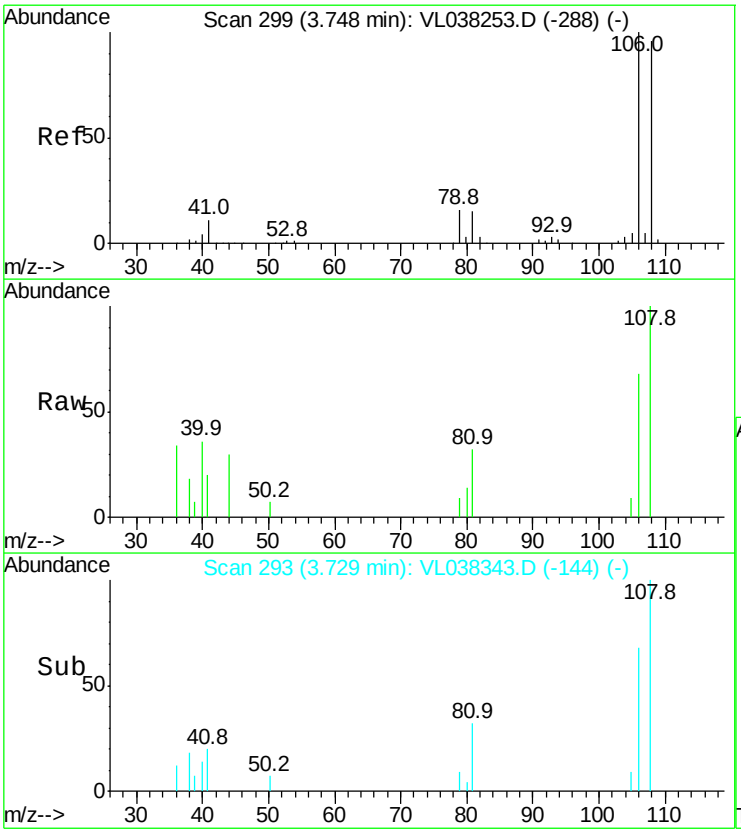
#13
Ethanol
Concen: 0.14 ppbv
RT: 3.62
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 45 Resp: 814

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.4	61.6#

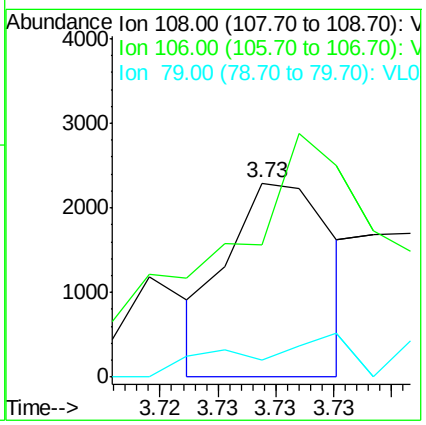


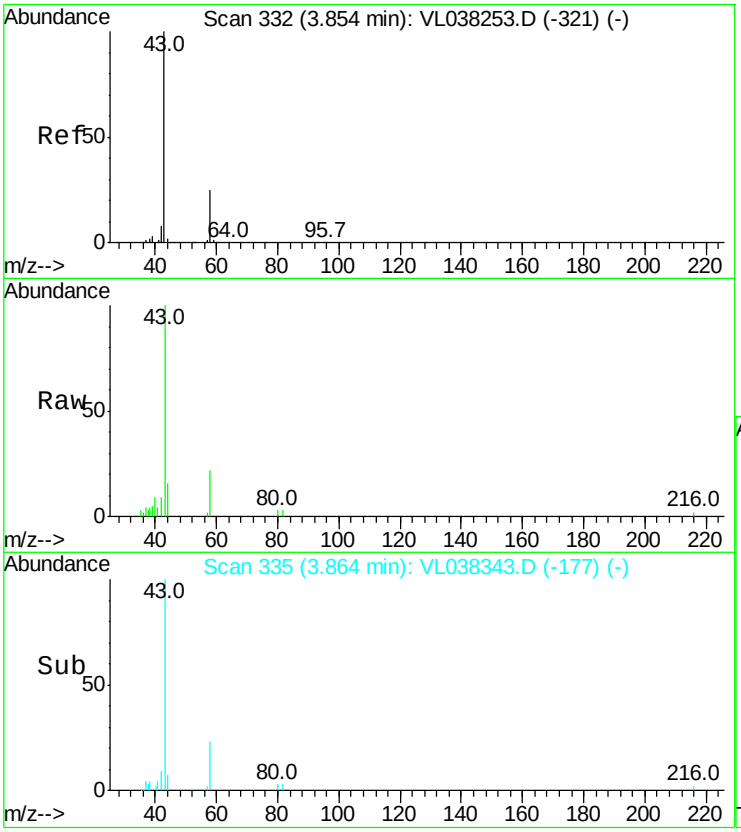


#14
Bromoethene
Concen: 0.03 ppbv
RT: 3.73 min Scan# 293
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:108 Resp: 1440

Ion	Ratio	Lower	Upper
108	100		
106	284.7	86.4	129.6#
79	0.0	14.1	21.1#



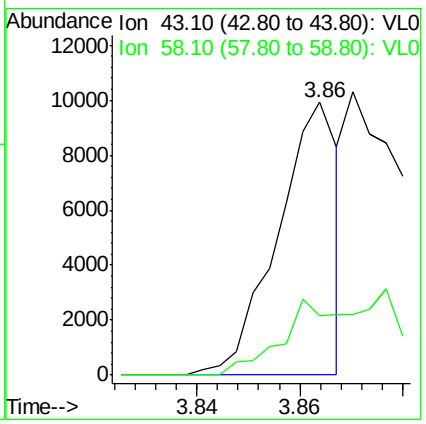


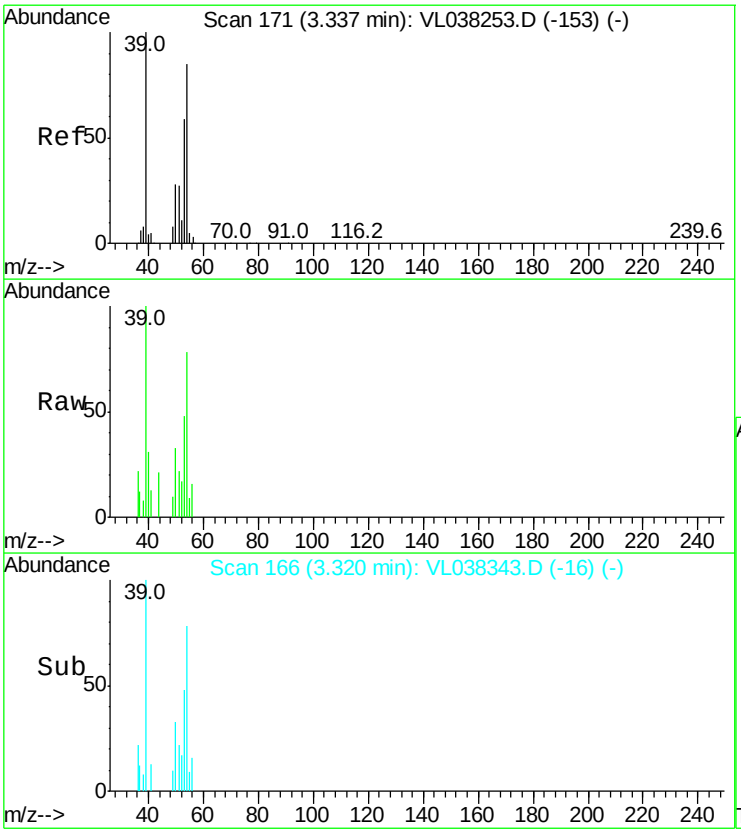
#15
Acetone
Concen: 0.11 ppbv
RT: 3.86
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 43 Resp: 8024

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.5	32.3#

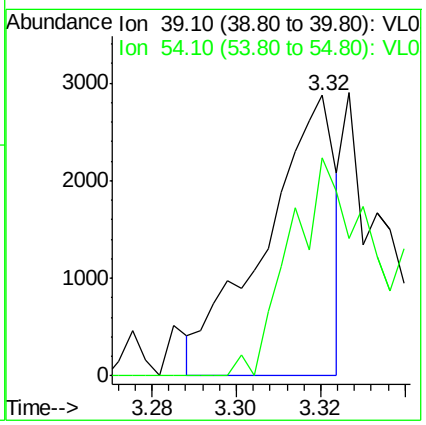


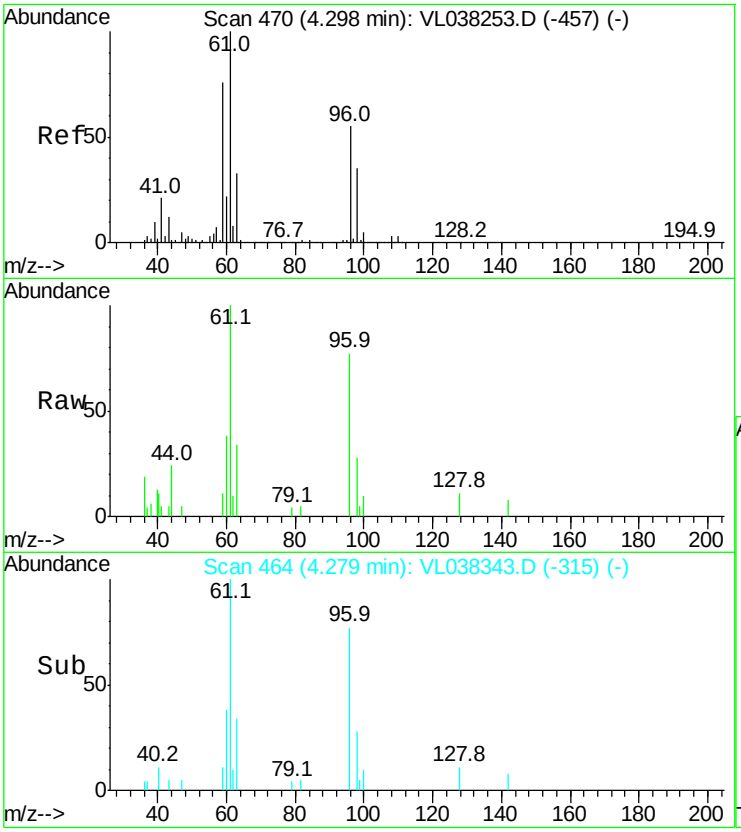


#16
1,3-Butadiene
Concen: 0.06 ppbv
RT: 3.32 min Scan# 166
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 39 Resp: 3315

Ion	Ratio	Lower	Upper
39	100		
54	114.7	62.6	94.0#



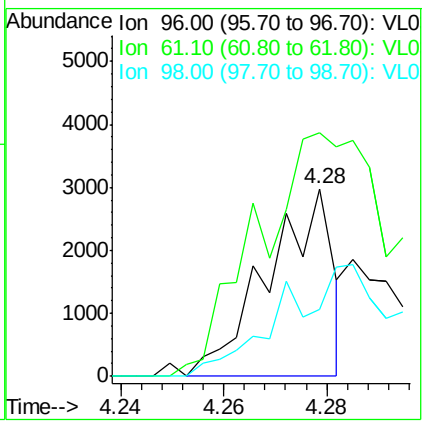


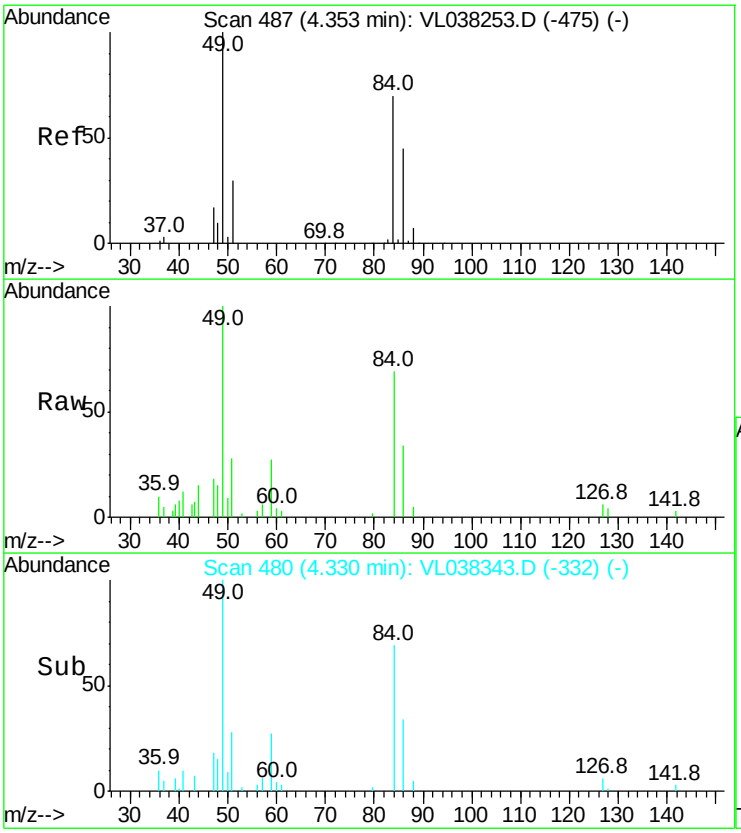
#18
1,1-Dichloroethene
Concen: 0.06 ppbv
RT: 4.28
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 96 Resp: 2593

Ion	Ratio	Lower	Upper
96	100		
61	123.5	146.5	219.7#
98	35.9	51.9	77.9#

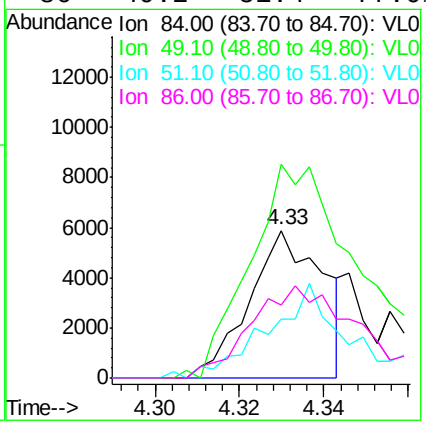


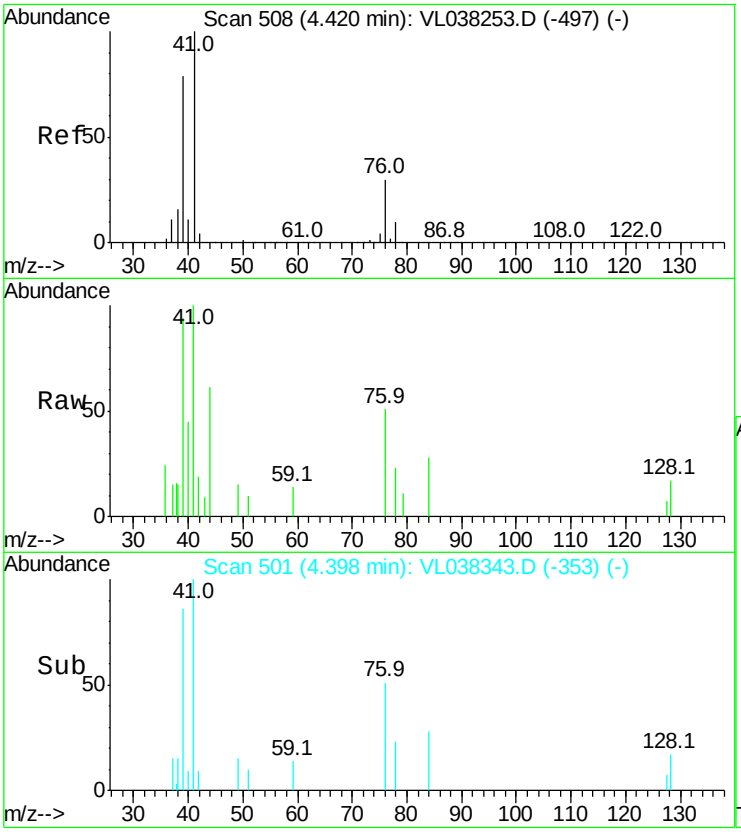


#20
Methylene Chloride
Concen: 0.16 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 84 Resp: 7118

Ion	Ratio	Lower	Upper
84	100		
49	139.9	115.0	172.6
51	40.0	35.0	52.6
86	49.2	51.4	77.0#



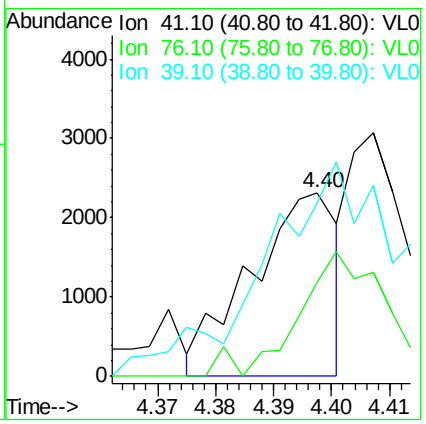


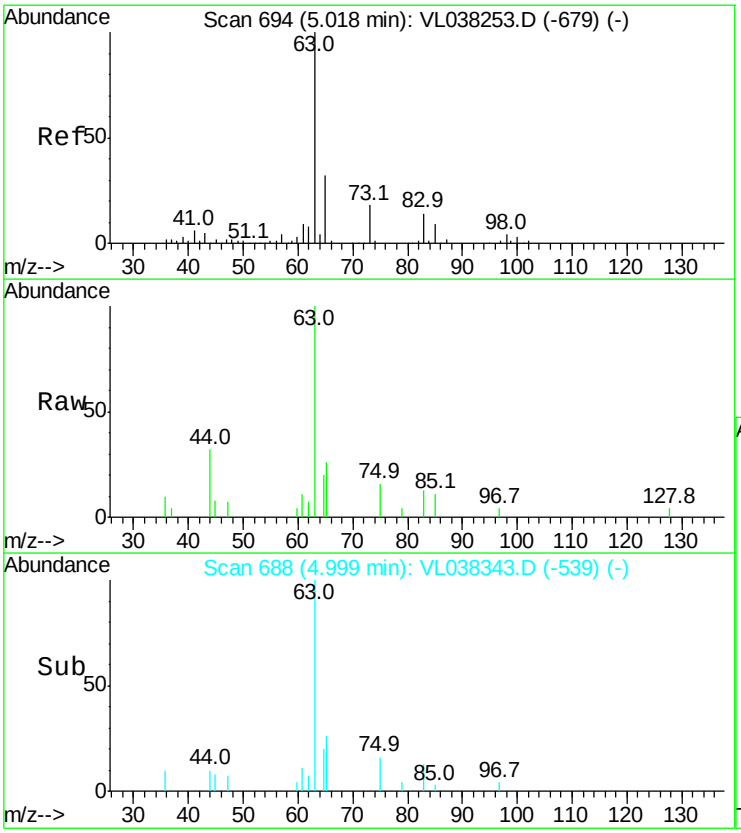
#21
Allyl Chloride
Concen: 0.04 ppbv
RT: 4.40
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 41 Resp: 2389

Ion	Ratio	Lower	Upper
41	100		
76	76.3	25.0	37.6#
39	230.1	63.0	94.6#

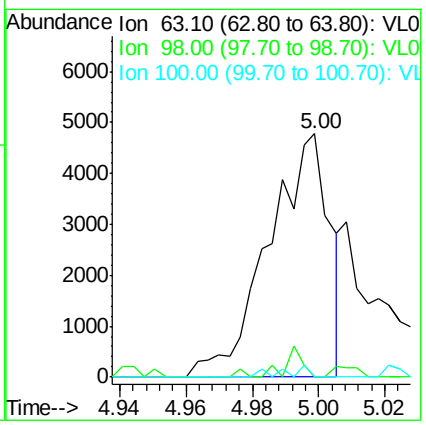


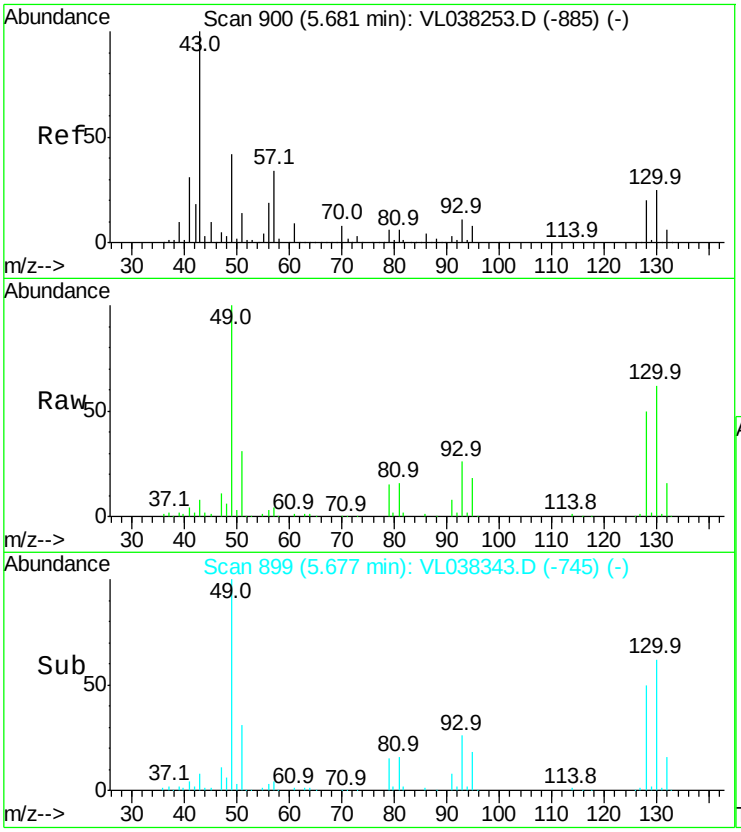


#24
1,1-Dichloroethane
Concen: 0.06 ppbv
RT: 5.00 min Scan# 688
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 63 Resp: 6114

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	0.0	1.3	3.9#



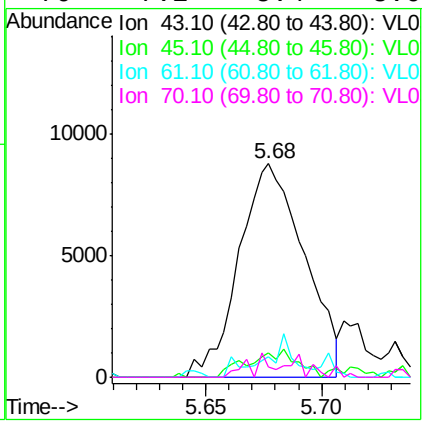


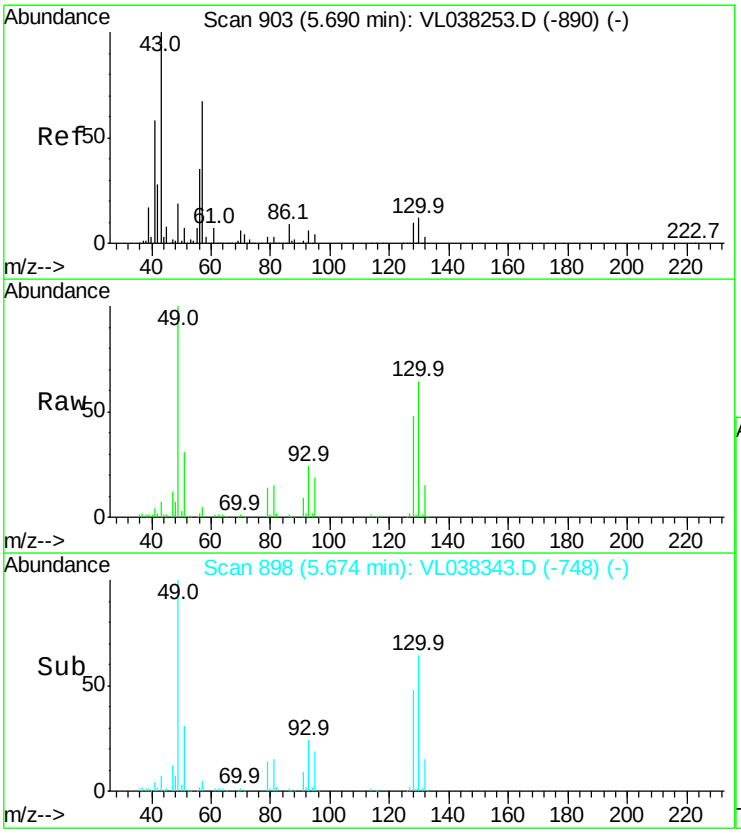
#25
Ethyl Acetate
Concen: 0.08 ppbv
RT: 5.68
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 43 Resp: 17204

Ion	Ratio	Lower	Upper
43	100		
45	10.4	7.9	11.9
61	12.0	7.8	11.8#
70	7.2	5.4	8.0

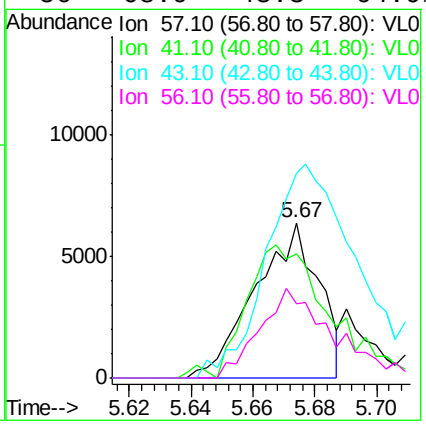


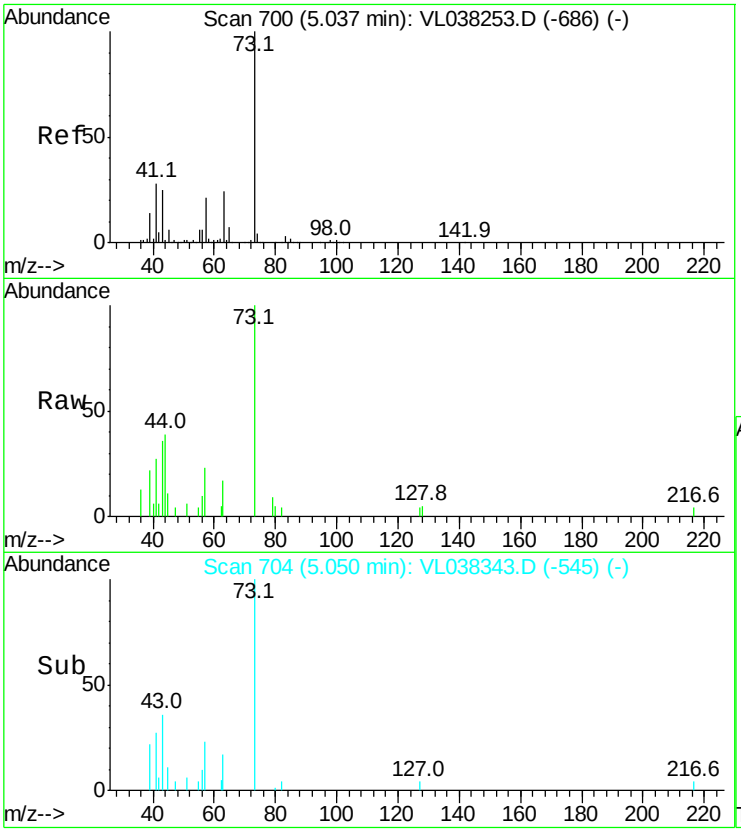


#26
Hexane
Concen: 0.09 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 57 Resp: 9100

Ion	Ratio	Lower	Upper
57	100		
41	121.6	72.8	109.2#
43	230.9	177.0	265.6
56	68.9	43.3	64.9#



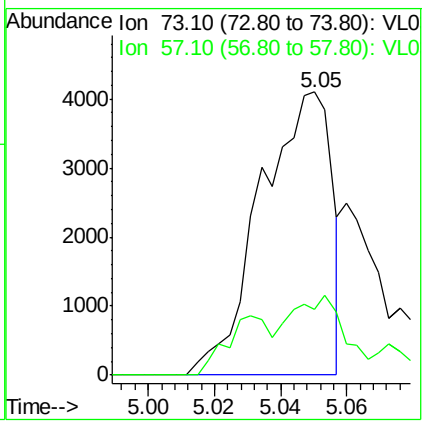


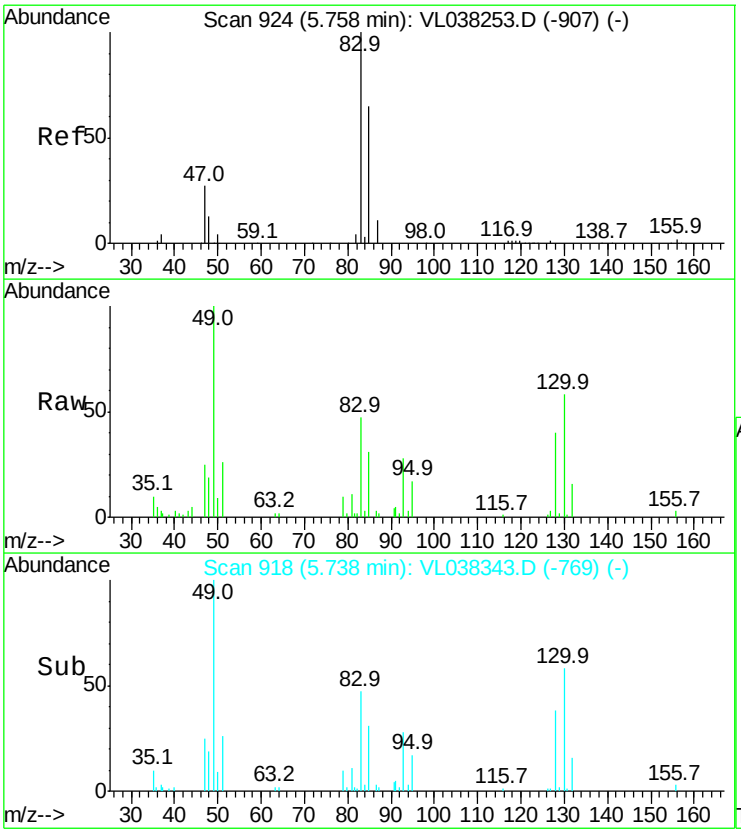
#28
Methyl tert-Butyl Ether
Concen: 0.06 ppbv
RT: 5.05
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 73 Resp: 6117

Ion	Ratio	Lower	Upper
73	100		
57	40.0	18.2	27.4#

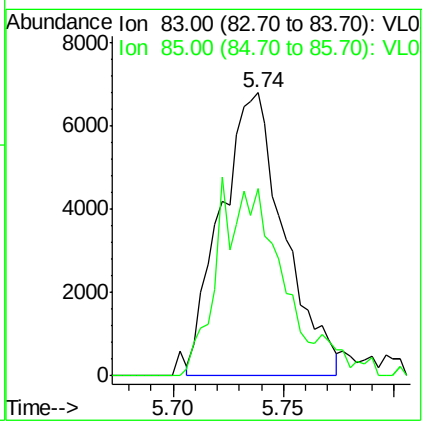


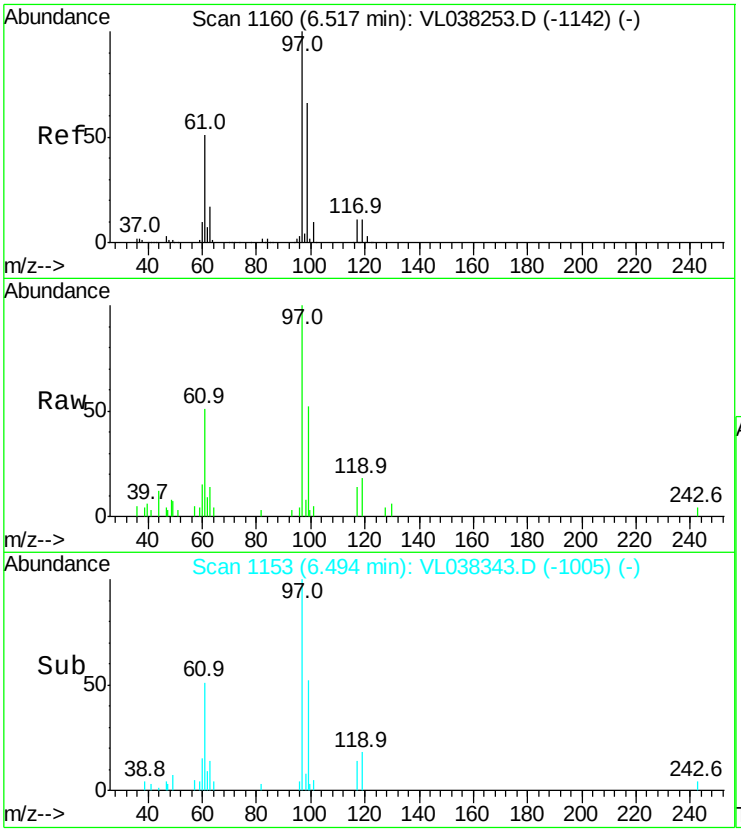


#29
Chloroform
Concen: 0.09 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 83 Resp: 13593

Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.9	77.9



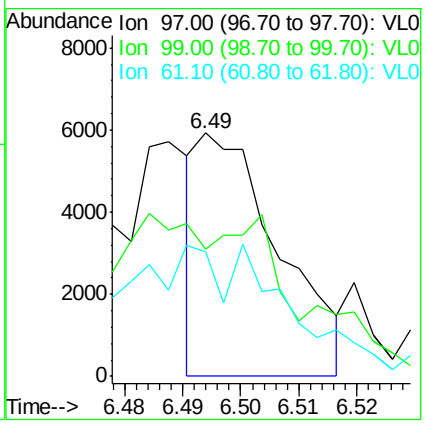


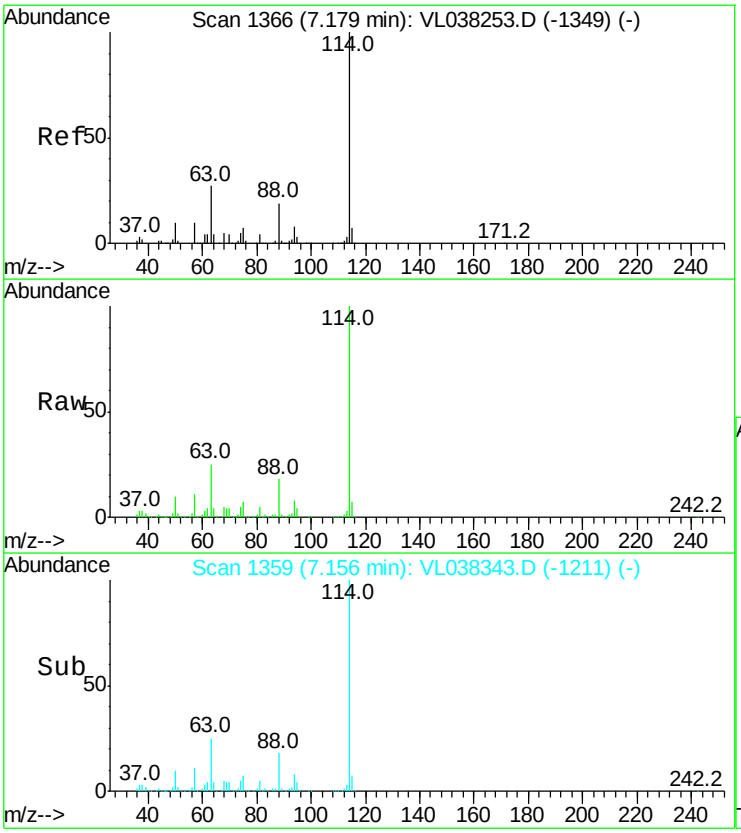
#32
1,1,1-Trichloroethane
Concen: 0.04 ppbv
RT: 6.49
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 97 Resp: 5717

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	117.0	40.5	60.7#

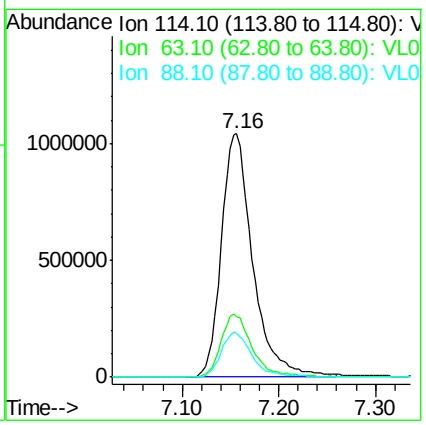


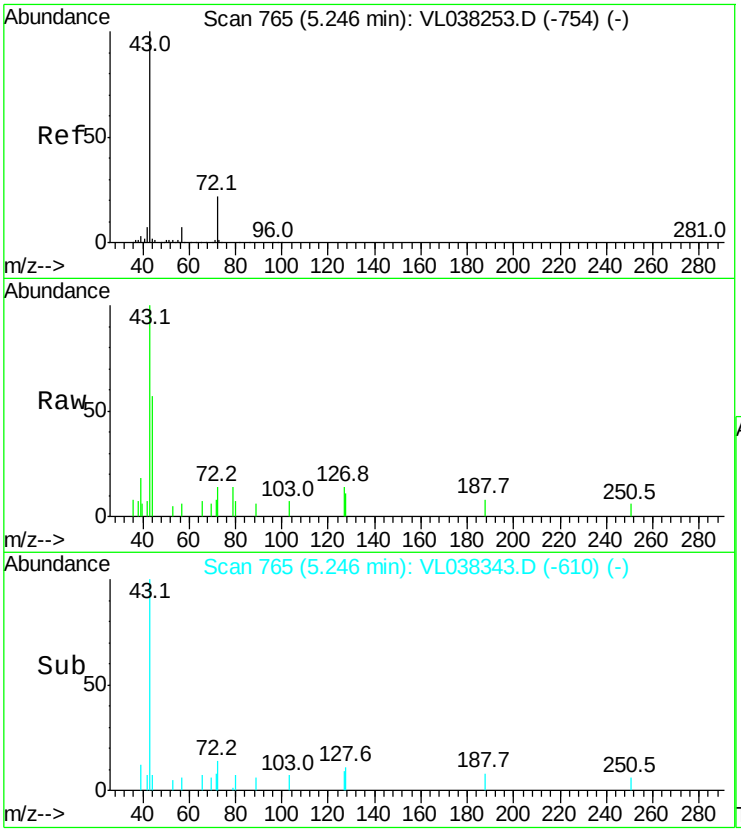


#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:114 Resp: 2346966

Ion	Ratio	Lower	Upper
114	100		
63	26.1	22.0	33.0
88	18.5	15.0	22.6



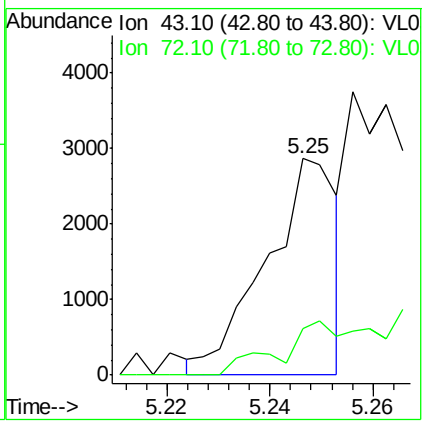


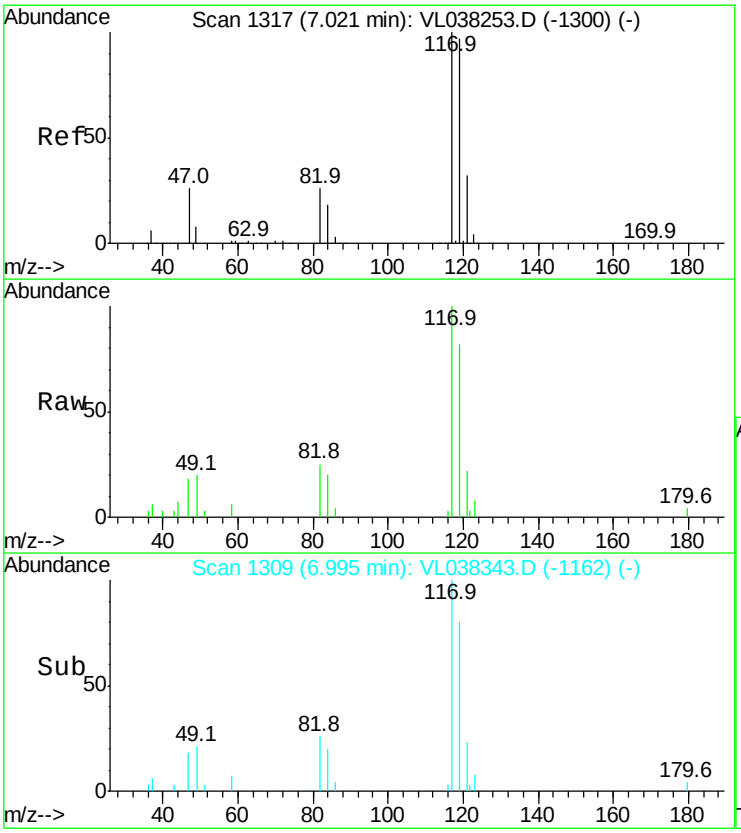
#34
2-Butanone
Concen: 0.04 ppbv
RT: 5.25
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 43 Resp: 2717

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.1	27.1#

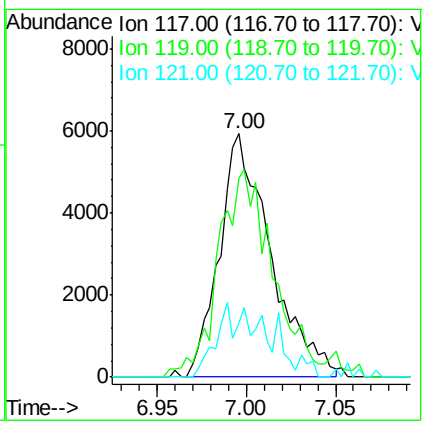


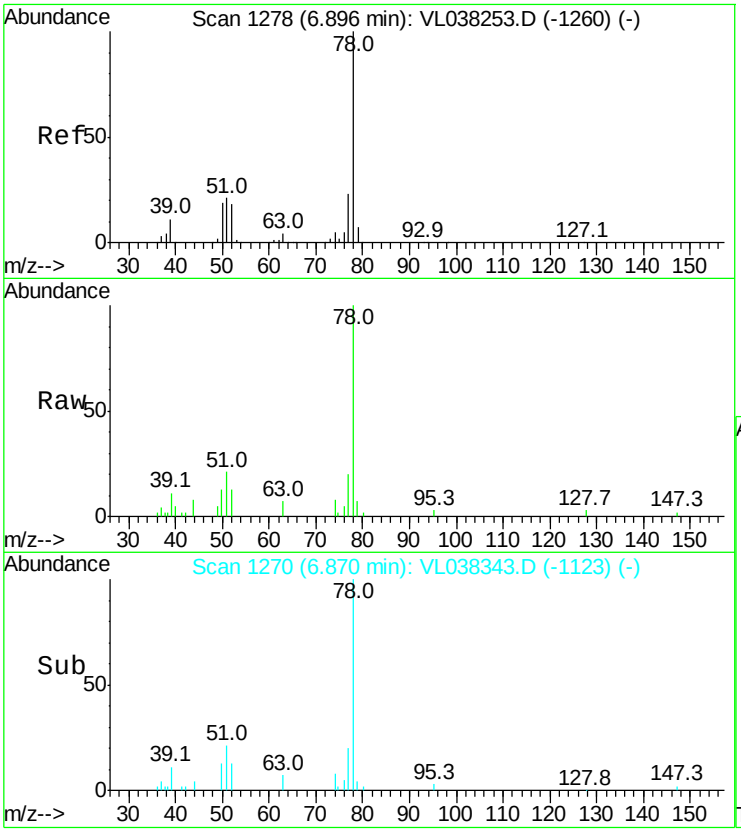


#35
Carbon Tetrachloride
Concen: 0.07 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:117 Resp: 11901

Ion	Ratio	Lower	Upper
117	100		
119	73.7	77.9	116.9#
121	22.5	25.4	38.2#



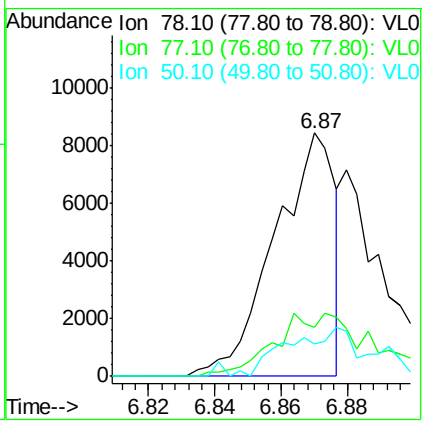


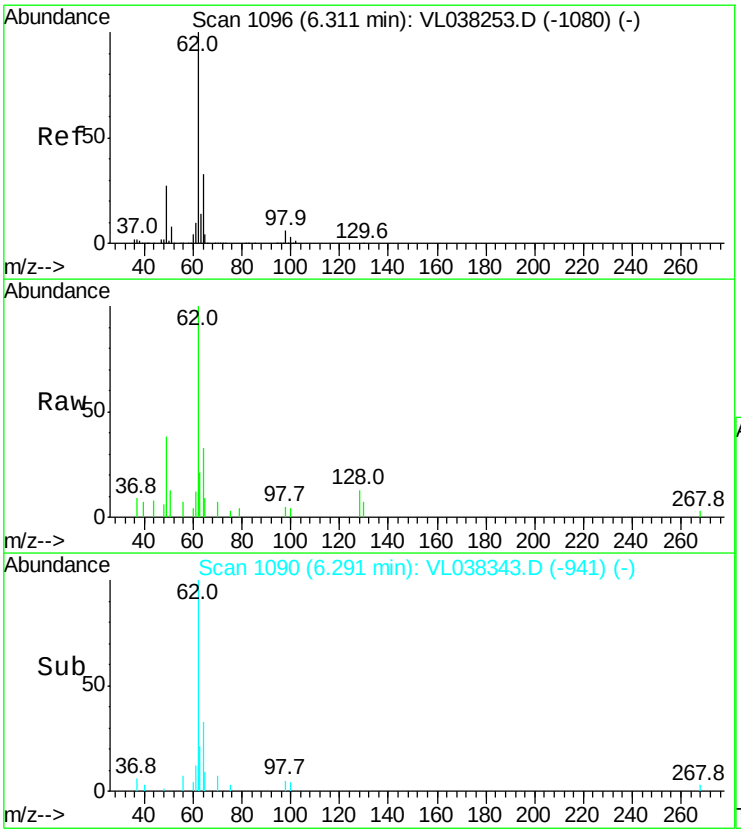
#36
Benzene
Concen: 0.05 ppbv
RT: 6.87
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 78 Resp: 10624

Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.2	27.2
50	12.4	15.1	22.7#

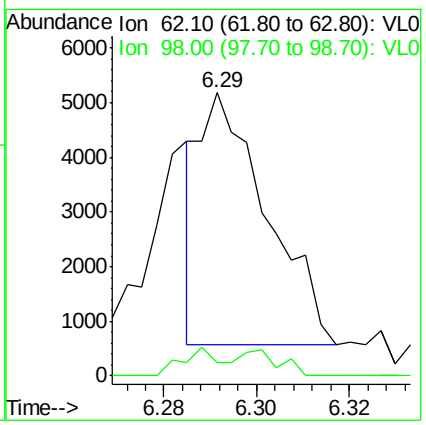


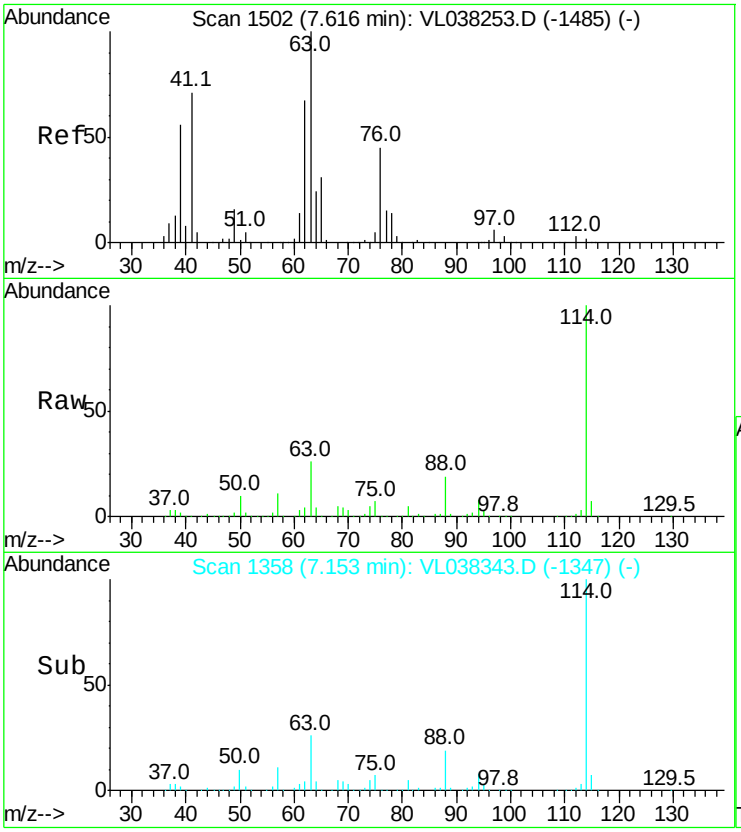


#37
1,2-Dichloroethane
Concen: 0.04 ppbv
RT: 6.29 min Scan# 1090
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 62 Resp: 4620

Ion	Ratio	Lower	Upper
62	100		
98	12.2	4.5	6.7#



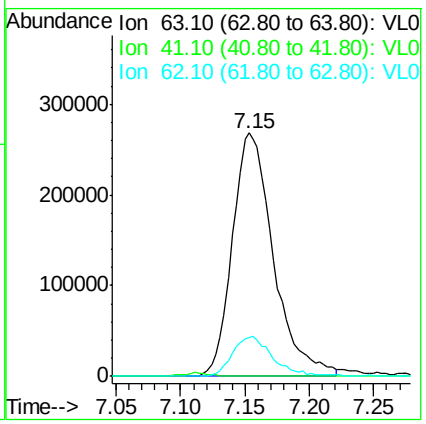


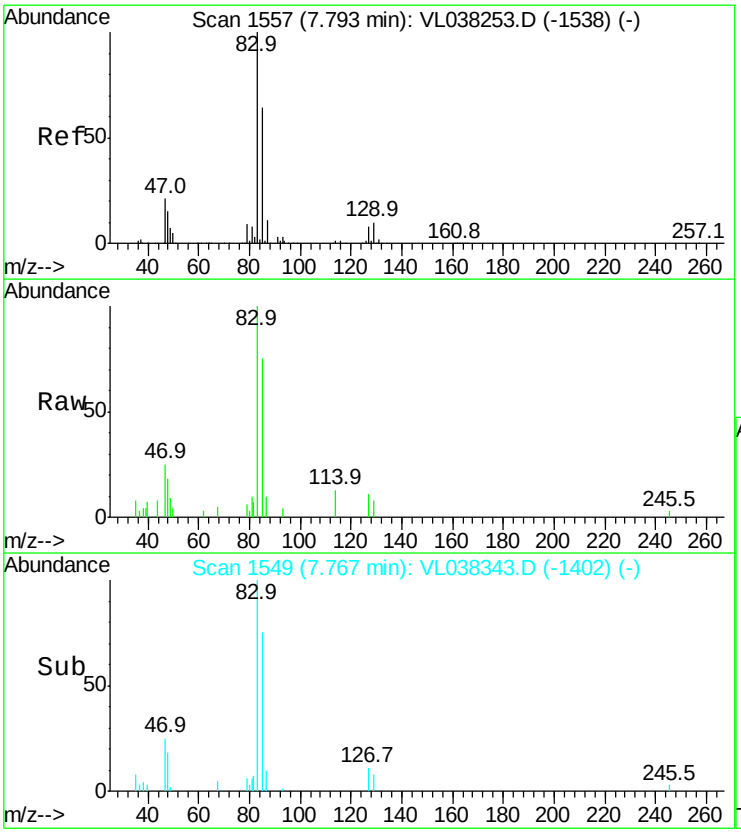
#39
1,2-Dichloropropane
Concen: 7.06 ppbv
RT: 7.15
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 63 Resp: 594589

Ion	Ratio	Lower	Upper
63	100		
41	0.1	56.6	85.0#
62	15.7	53.9	80.9#

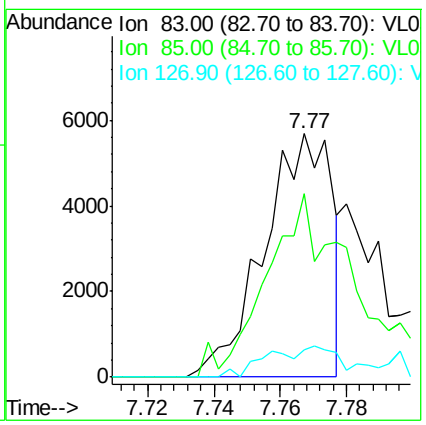


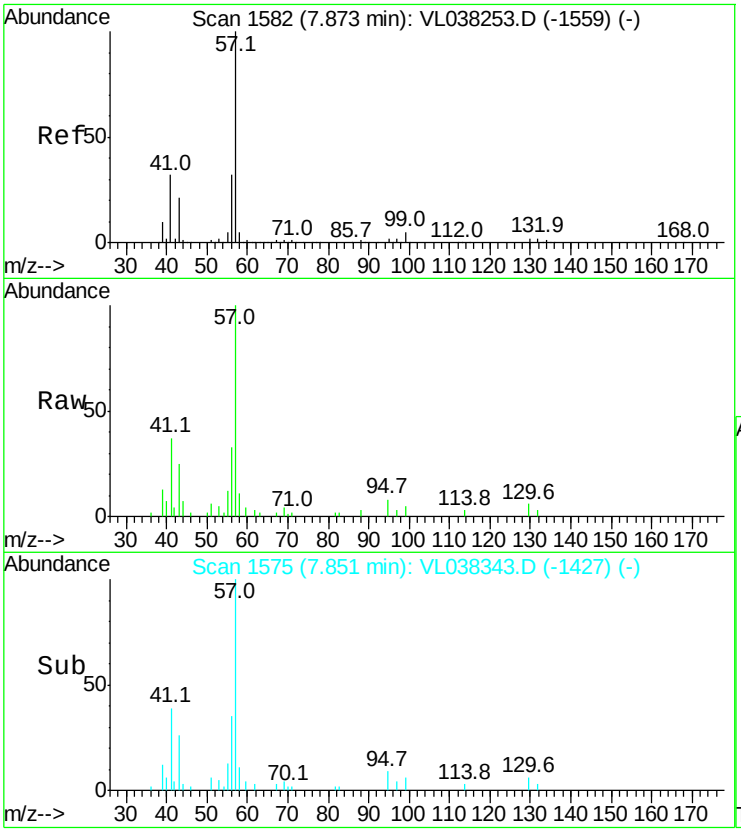


#42
Bromodichloromethane
Concen: 0.05 ppbv
RT: 7.77 min Scan# 1549
Delta R.T. -0.03 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 83 Resp: 8059

Ion	Ratio	Lower	Upper
83	100		
85	75.4	51.5	77.3
127	11.3	6.2	9.4#



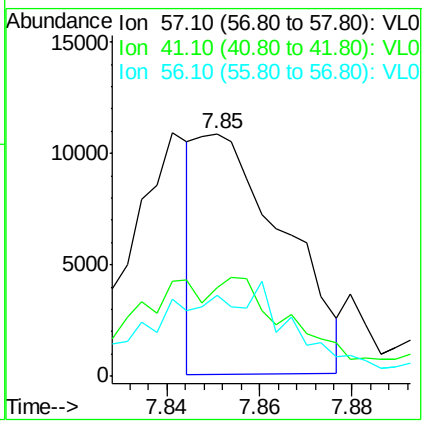


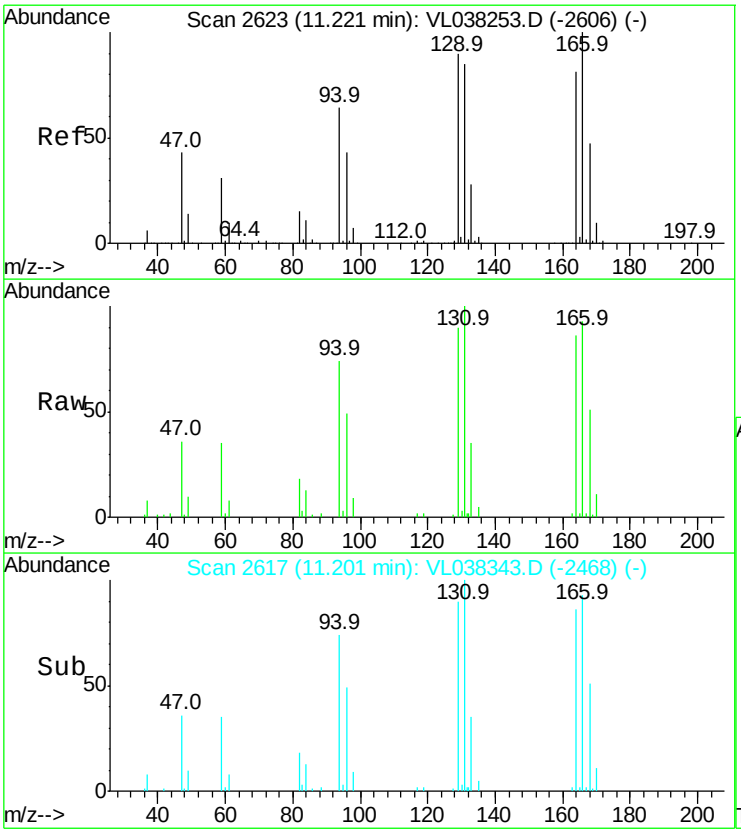
#44
2,2,4-Trimethylpentane
Concen: 0.04 ppbv
RT: 7.85
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 57 Resp: 13944

Ion	Ratio	Lower	Upper
57	100		
41	82.1	26.3	39.5#
56	63.7	25.2	37.8#

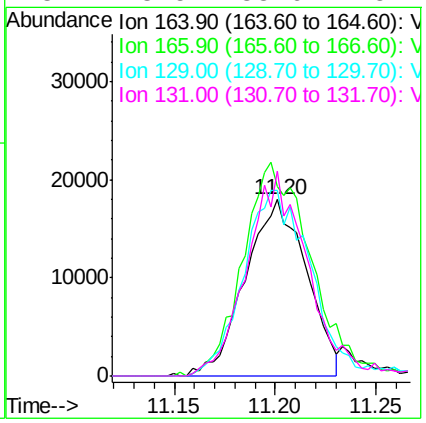


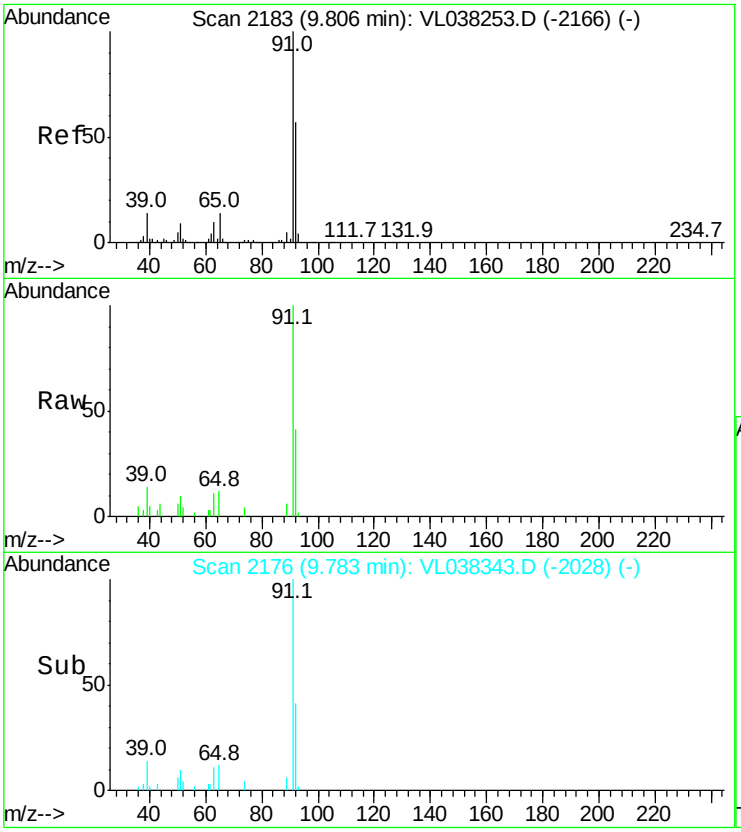


#52
Tetrachloroethene
Concen: 0.53 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:164 Resp: 37893

Ion	Ratio	Lower	Upper
164	100		
166	107.7	98.8	148.2
129	105.1	89.2	133.8
131	118.5	83.6	125.4



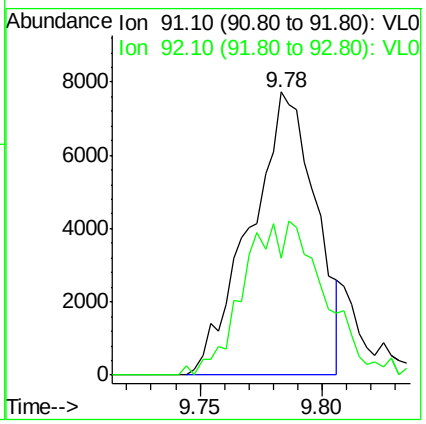


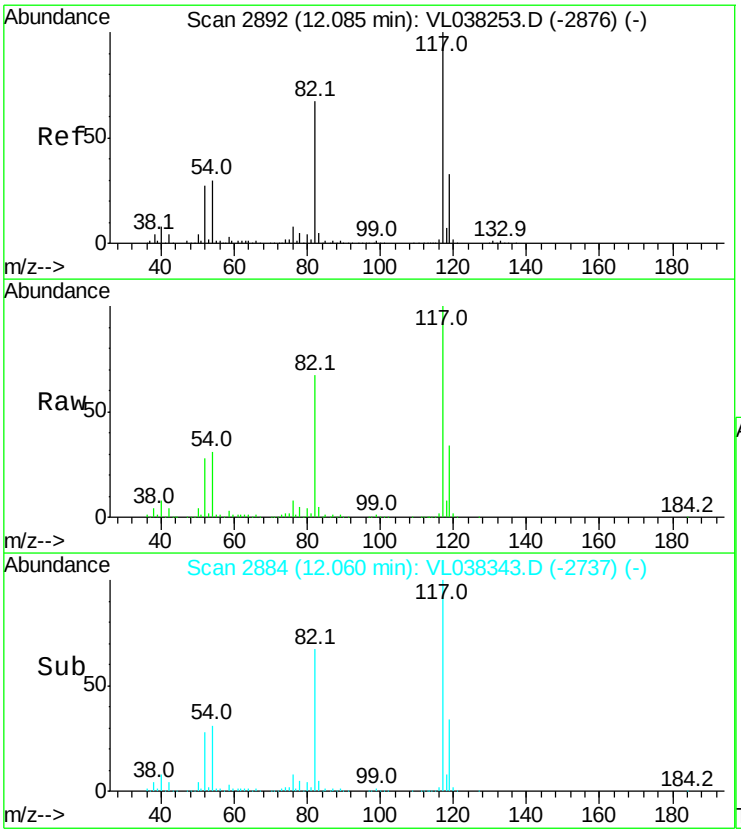
#53
Toluene
Concen: 0.06 ppbv
RT: 9.78
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 91 Resp: 14452

Ion	Ratio	Lower	Upper
91	100		
92	68.9	47.4	71.0

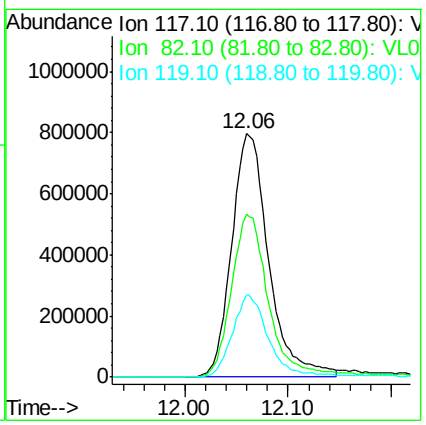


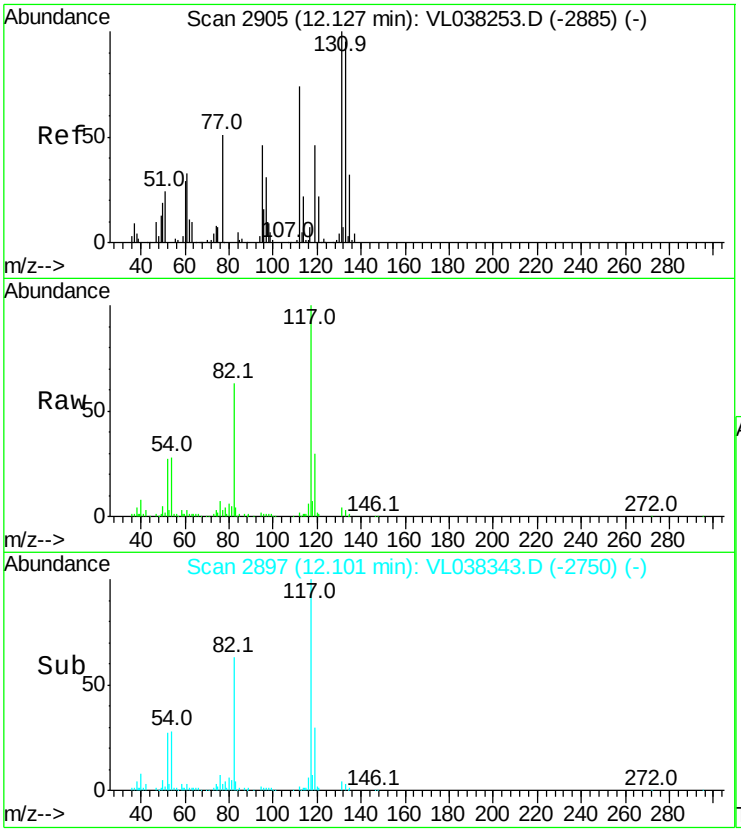


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.03 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:117 Resp: 1993977

Ion	Ratio	Lower	Upper
117	100		
82	69.7	54.4	81.6
119	34.3	45.9	68.9#



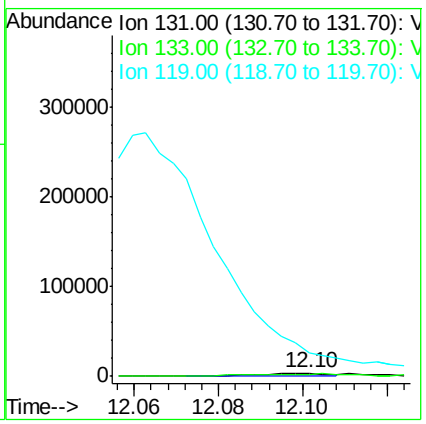


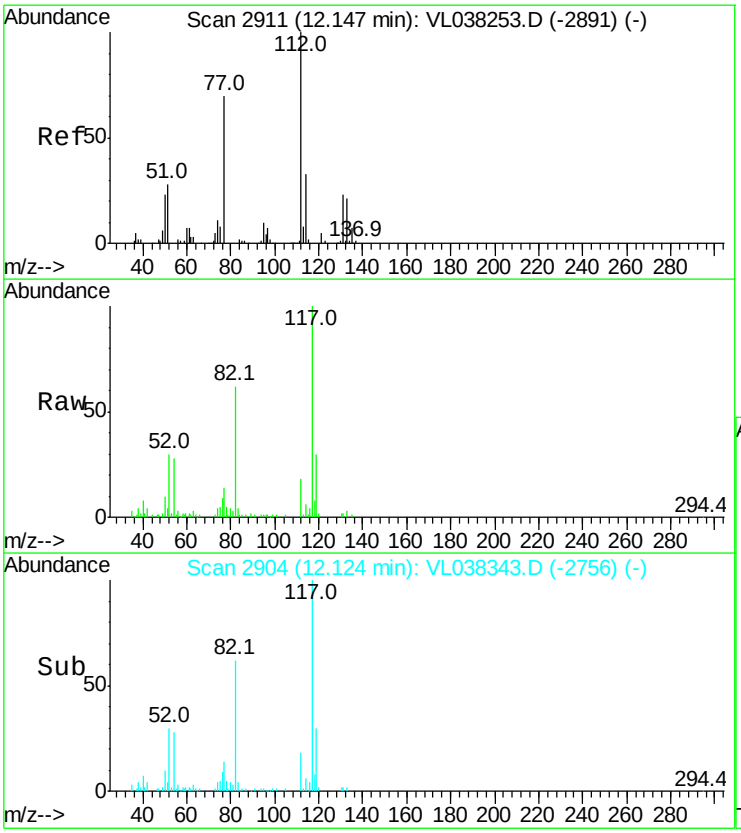
#56
1,1,1,2-Tetrachloroethane
Concen: 0.05 ppbv
RT: 12.10
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion:131 Resp: 4300

Ion	Ratio	Lower	Upper
131	100		
133	153.4	76.0	114.0#
119	0.0	53.0	79.4#

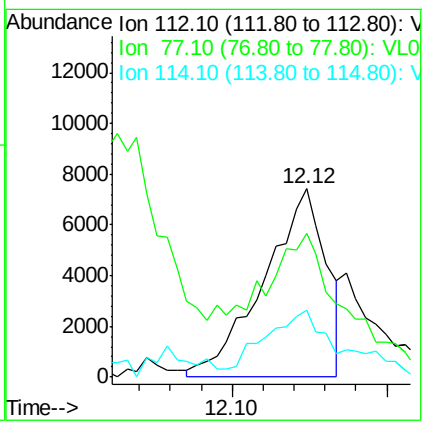


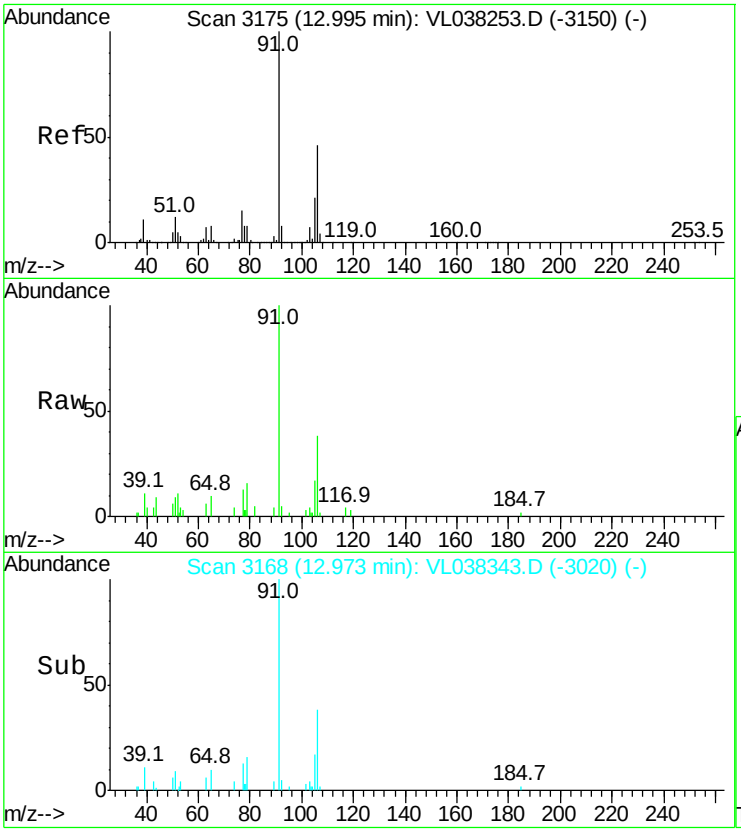


#57
Chlorobenzene
Concen: 0.07 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:112 Resp: 10375

Ion	Ratio	Lower	Upper
112	100		
77	38.7	55.9	83.9#
114	28.2	29.3	35.9#



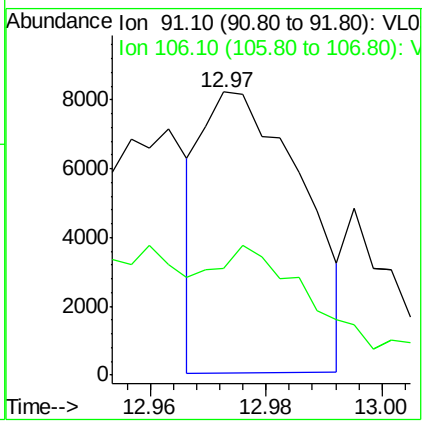


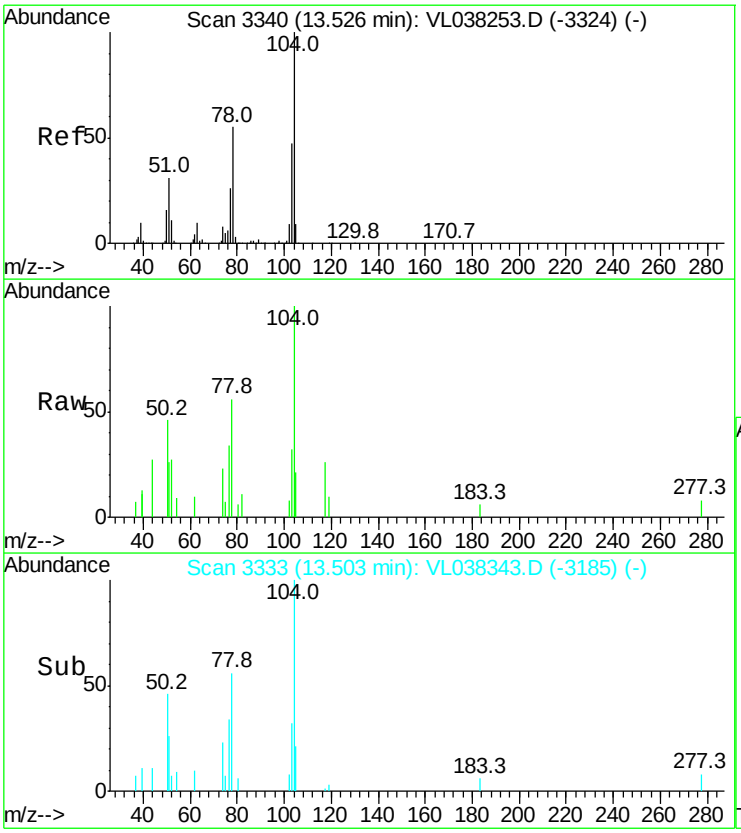
#59
m/p-Xylene
Concen: 0.04 ppbv
RT: 12.97
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 91 Resp: 9810

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.8	52.2#

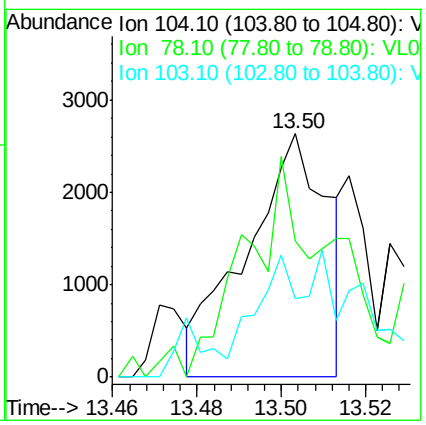


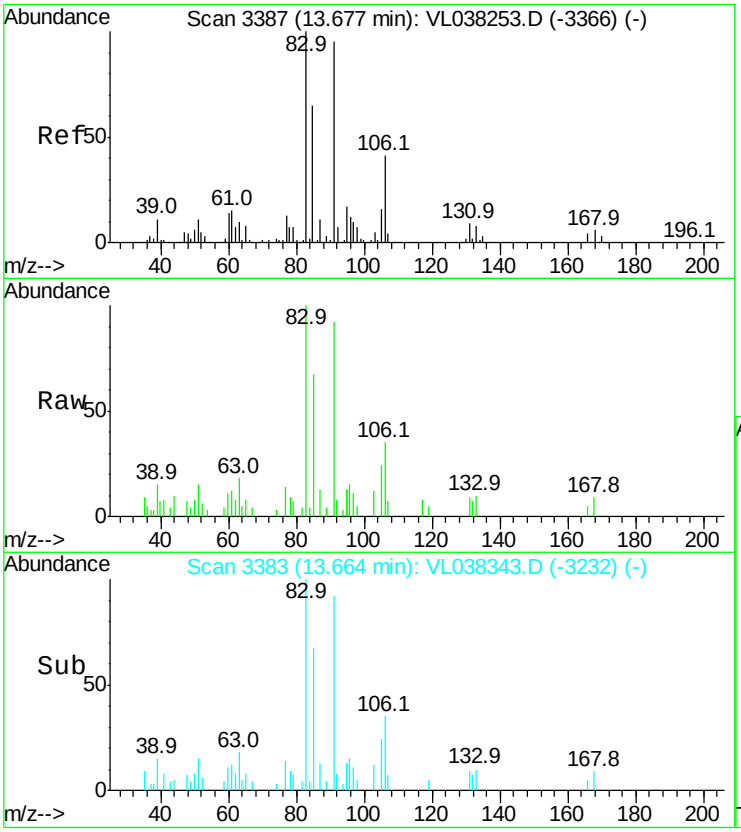


#61
Styrene
Concen: 0.03 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:104 Resp: 3493

Ion	Ratio	Lower	Upper
104	100		
78	113.3	44.2	66.4#
103	0.0	38.2	57.4#



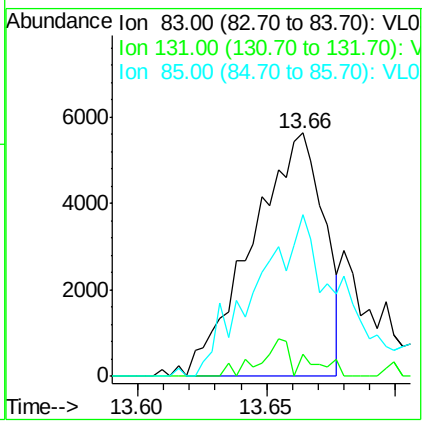


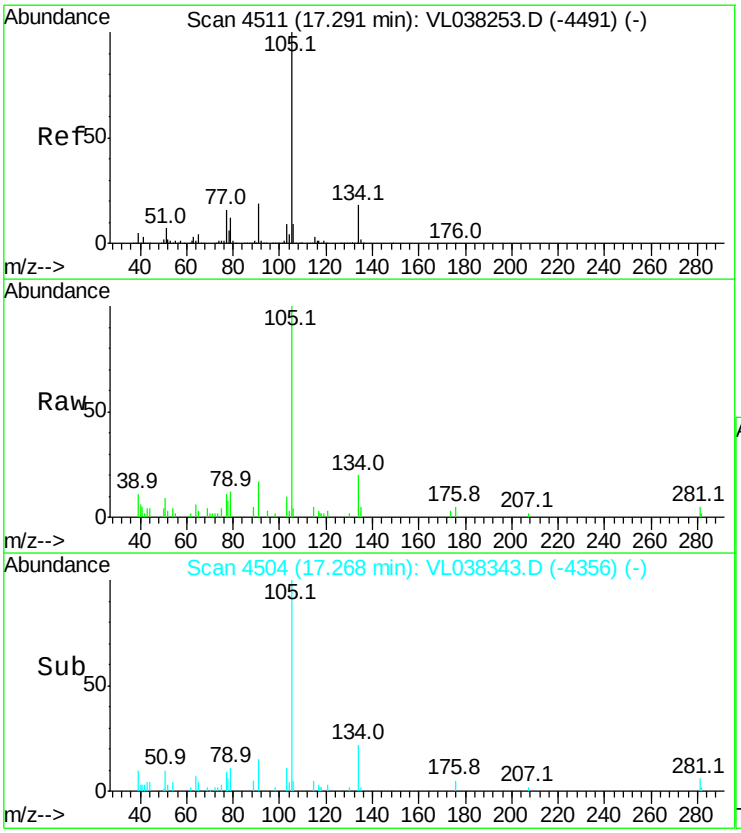
#63
1,1,2,2-Tetrachloroethane
Concen: 0.06 ppbv
RT: 13.66
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 83 Resp: 10982

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.5
85	85.7	32.8	98.4

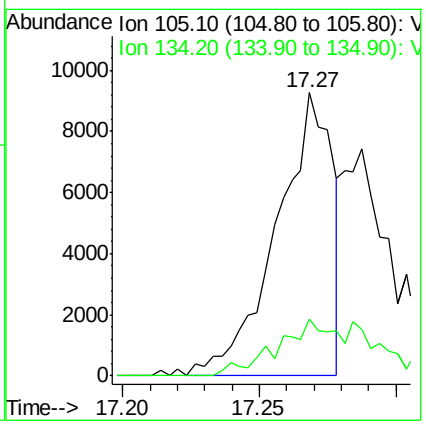


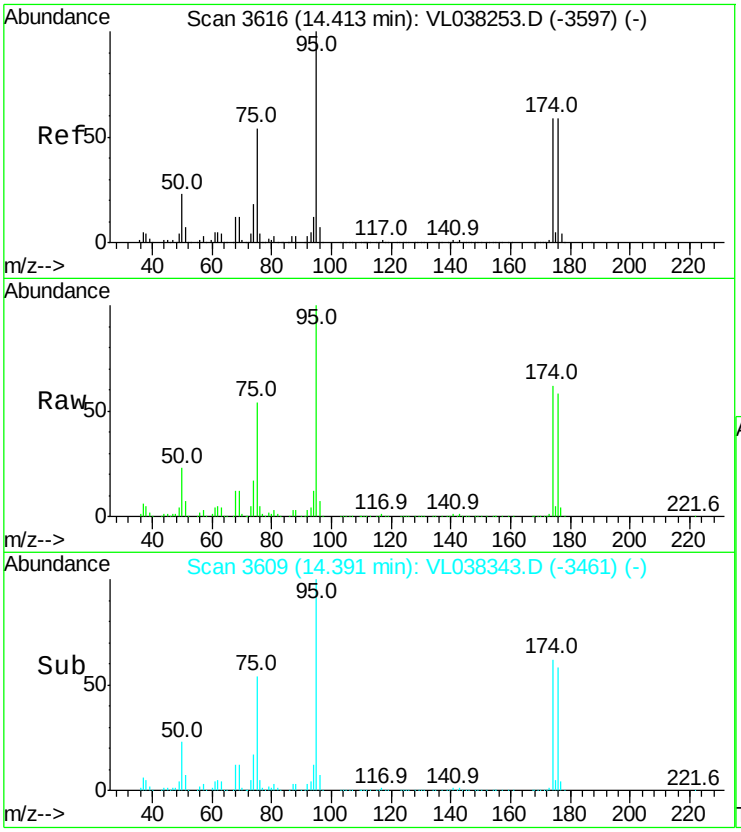


#67
sec-Butylbenzene
Concen: 0.04 ppbv
RT: 17.27 min Scan# 4504
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion:105 Resp: 13103

Ion	Ratio	Lower	Upper
105	100		
134	36.1	14.3	21.5#



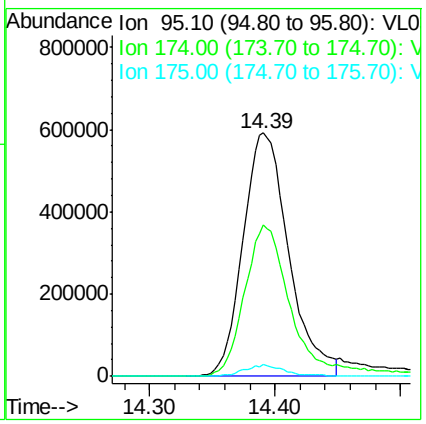


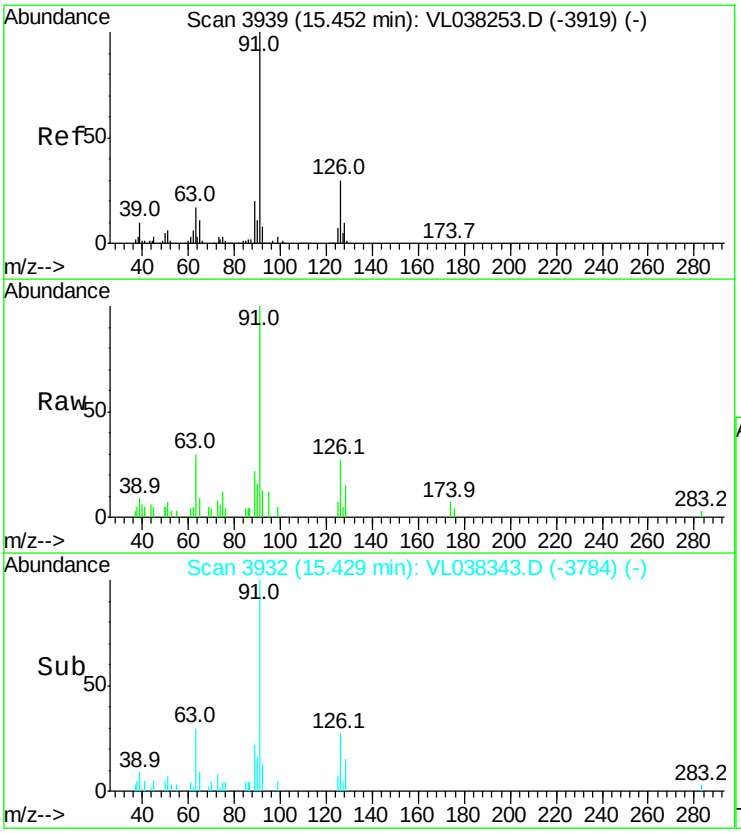
#68
1-Bromo-4-Fluorobenzene
Concen: 9.91 ppbv
RT: 14.39
Delta R.T
Lab File:
Acq: 14 Feb 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 95 Resp: 1500028

Ion	Ratio	Lower	Upper
95	100		
174	65.6	48.3	72.5
175	4.6	3.5	5.3





#71
2-Chlorotoluene
Concen: 0.07 ppbv
RT: 15.43 min Scan# 3932
Delta R.T. -0.02 min
Lab File: VL038343.D
Acq: 14 Feb 2022 16:55

Tgt Ion: 91 Resp: 15782

Ion	Ratio	Lower	Upper
91	100		
126	31.6	12.1	48.5