Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033608.D
Acq On : 17 Apr 2019 18:48
Operator : SY/AP
Sample : K2241-14 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Quant Time: Apr 18 06:57:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	824035	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1945225	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	1972972	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1603323	10.37	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	114866	0.956	ppbv		95
3) Chlorodifluoromethane	3.01	51	89106	0.939	ppbv		100
4) Chloromethane	3.17	50	48062	0.957	ppbv	#	87
5) Vinyl Chloride	3.29	62	46928	0.951	ppbv		100
6) Bromomethane	3.52	94	29012	0.915	ppbv		99
7) Chloroethane	3.60	64	17050	0.929	ppbv	#	83
8) Dichlorotetrafluoroethane	3.22	85	126452	0.987	ppbv		99
9) Propene	3.04	41	29870	0.750	ppbv		93
10) Heptane	8.24	43	87644	0.823	ppbv		98
11) Trichlorofluoromethane	4.00	101	145885	0.985	ppbv		99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	99997	1.005	ppbv		100
13) Ethanol	3.65	45	13049	1.266	ppbv		71
14) Bromoethene	3.79	108	32696	0.824	ppbv	#	91
15) Acetone	3.90	43	110453	1.115	ppbv		97
16) 1,3-Butadiene	3.36	39	37692	0.959	ppbv		99
17) tert-Butyl alcohol	4.37	59	17512m	0.961	ppbv		
18) 1,1-Dichloroethene	4.35	96	38825	0.909	ppbv		96
19) Isopropyl Alcohol	4.03	45	60302	0.962	ppbv	#	92
20) Methylene Chloride	4.41	84	41497	0.987	ppbv		91
21) Allyl Chloride	4.48	41	54156	0.865	ppbv		93
22) trans-1,2-Dichloroethene	4.96	96	42253	0.948	ppbv		95
23) Vinyl Acetate	5.15	43	111065	0.788	ppbv	#	96
24) 1,1-Dichloroethane	5.09	63	93988	0.877	ppbv		98
25) Ethyl Acetate	5.77	43	165685	0.901	ppbv		99
26) Hexane	5.78	57	72750	0.890	ppbv		94
27) Carbon Disulfide	4.62	76	88520	0.911	ppbv		97
28) Methyl tert-Butyl Ether	5.12	73	86271m	0.733	ppbv		
29) Chloroform	5.84	83	136160	0.972	ppbv		98
30) Cyclohexane	7.25	84	46155	0.714	ppbv	#	85
31) cis-1,2-Dichloroethene	5.64	61	64329	0.792	ppbv		89
32) 1,1,1-Trichloroethane	6.62	97	126663	0.949	ppbv		96
34) 2-Butanone	5.33	43	90160	0.771	ppbv		96
35) Carbon Tetrachloride	7.13	117	136585	0.991	ppbv		95
36) Benzene	7.00	78	130183	0.798	ppbv		98
37) 1,2-Dichloroethane	6.41	62	100066	0.915	ppbv		98
38) Trichloroethene	7.96	130	56150m	0.914	ppbv		
39) 1,2-Dichloropropane	7.73	63	52774	0.825	ppbv		95
40) 1,4-Dioxane	7.98	88	20080m	0.881	ppbv		
41) Tetrahydrofuran	6.16	42	43730	0.680	ppbv		99
42) Bromodichloromethane	7.91	83	135463	0.909	ppbv		94
43) Methyl Methacrylate	8.13	69	49268m	0.743	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033608.D
Acq On : 17 Apr 2019 18:48
Operator : SY/AP
Sample : K2241-14 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Quant Time: Apr 18 06:57:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	248361	0.871	ppbv		94
45) t-1,3-Dichloropropene	9.42	75	54571m	0.671	ppbv		
46) cis-1,3-Dichloropropene	8.83	75	63206m	0.665	ppbv		
47) 1,1,2-Trichloroethane	9.61	97	63273	0.872	ppbv		97
48) Dibromochloromethane	10.45	129	107333m	0.876	ppbv		
49) Bromoform	13.20	173	92975	0.795	ppbv		99
50) 4-Methyl-2-Pentanone	8.88	43	142027	0.830	ppbv		97
51) 2-Hexanone	10.28	43	94828	0.743	ppbv	#	90
52) Tetrachloroethene	11.37	164	52681	0.855	ppbv		96
53) Toluene	9.94	91	139857	0.737	ppbv		97
54) 1,2-Dibromoethane	10.75	107	93327	0.822	ppbv		98
56) 1,1,1,2-Tetrachloroethane	12.27	131	85276	0.943	ppbv	#	1
57) Chlorobenzene	12.29	112	151214	0.987	ppbv	#	92
58) Ethyl Benzene	12.86	91	206117	0.782	ppbv		98
59) m/p-Xylene	13.14	91	397086m	1.687	ppbv		
60) o-Xylene	13.85	91	197375	0.867	ppbv		98
61) Styrene	13.69	104	110450	0.707	ppbv		97
62) Isopropylbenzene	14.82	105	276243	0.857	ppbv		100
63) 1,1,2,2-Tetrachloroethane	13.83	83	162073	0.967	ppbv		98
64) n-propylbenzene	15.72	120	68376	0.836	ppbv		82
65) tert-Butylbenzene	16.90	119	243099	0.856	ppbv		95
66) Benzyl Chloride	17.15	91	97656	0.740	ppbv		99
67) sec-Butylbenzene	17.45	105	362911	0.899	ppbv		98
69) p-Isopropyltoluene	17.81	119	271069	0.824	ppbv		97
70) n-Butylbenzene	18.72	91	281242m	0.807	ppbv		
71) 2-Chlorotoluene	15.61	91	196276	0.801	ppbv		100
72) 4-Ethyltoluene	16.00	105	203347m	0.795	ppbv		
73) 1,3,5-Trimethylbenzene	16.15	105	188492	0.770	ppbv		100
74) 1,2,4-Trimethylbenzene	16.92	105	212832	0.811	ppbv		93
75) 1,3-Dichlorobenzene	17.16	146	149275	0.920	ppbv		96
76) 1,4-Dichlorobenzene	17.30	146	135368	0.857	ppbv		98
77) 1,2-Dichlorobenzene	17.99	146	139560	0.907	ppbv		100
78) Hexachloro-1,3-Butadiene	23.54	225	99593	0.978	ppbv		99
79) Naphthalene	22.42	128	74141m	0.330	ppbv		
80) Naphthalene,2-methyl-	25.13	142	4473	0.059	ppbv	#	91
81) 1,2,4-Trichlorobenzene	22.14	180	62505	0.502	ppbv		99

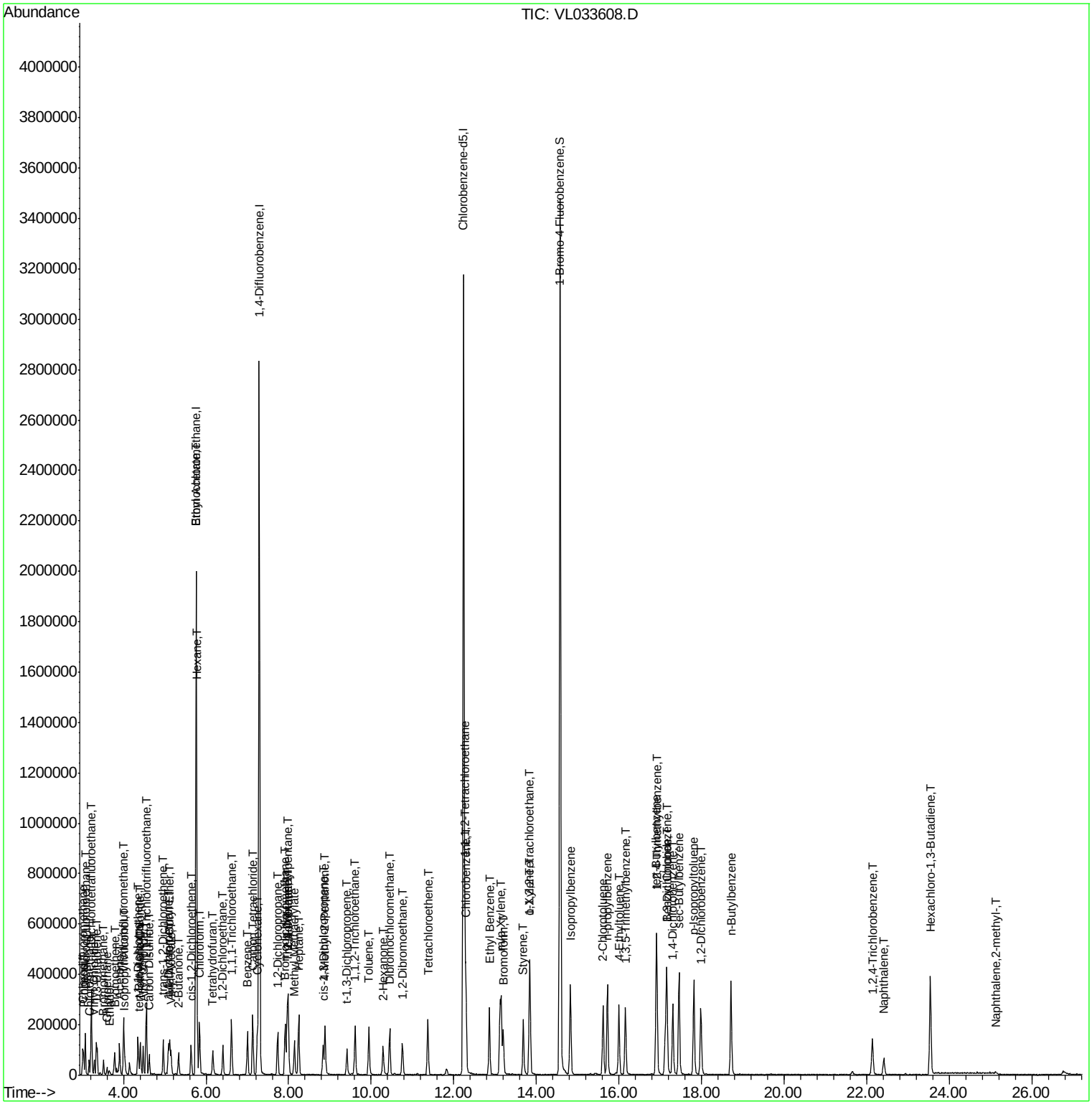
(#) = qualifier out of range (m) = manual integration (+) = signals summed

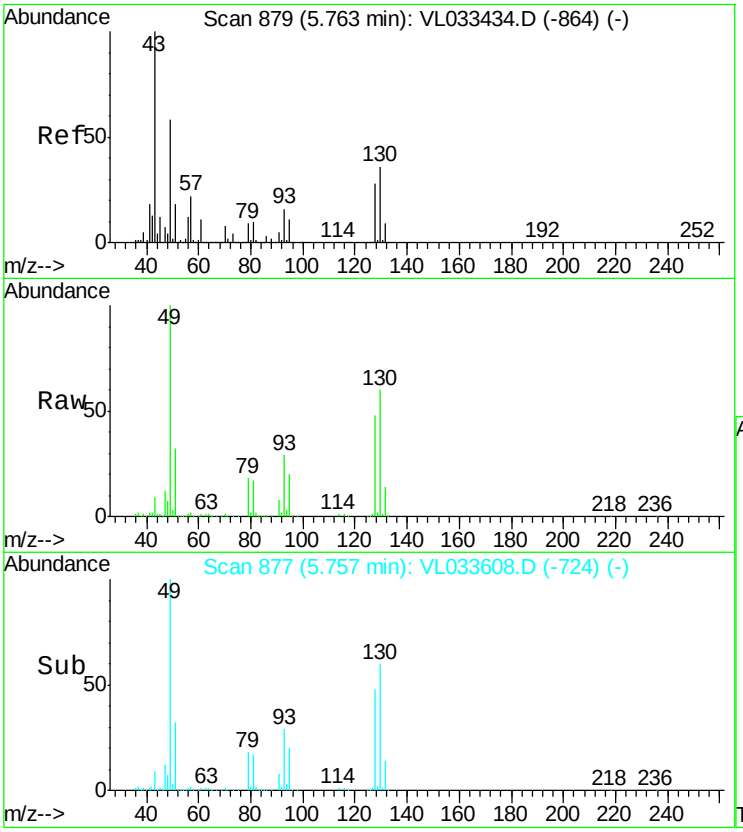
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Data File : VL033608.D
Acq On : 17 Apr 2019 18:48
Operator : SY/AP
Sample : K2241-14 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Quant Time: Apr 18 06:57:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration



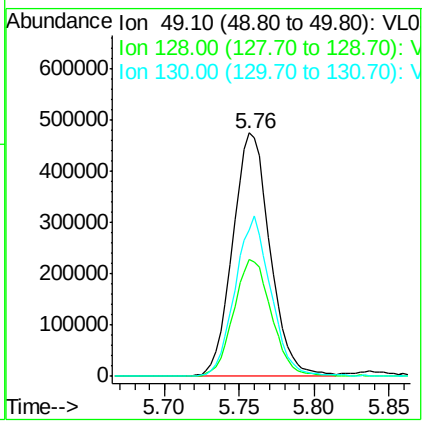


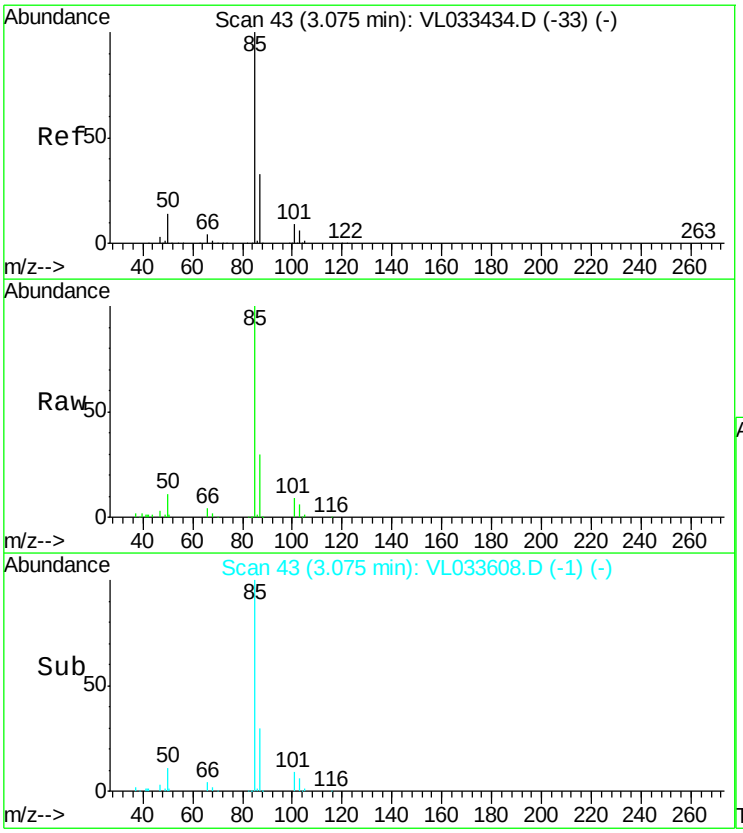
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 49 Resp: 824035

Ion	Ratio	Lower	Upper
49	100		
128	49.0	24.0	72.0
130	63.6	31.2	93.6

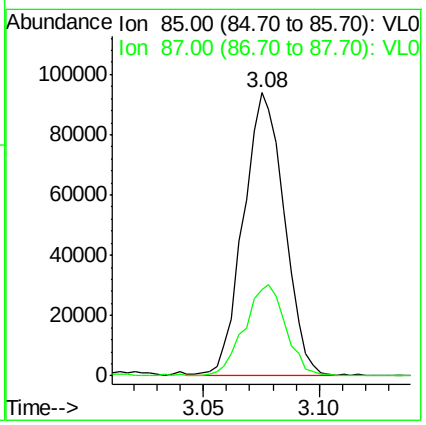


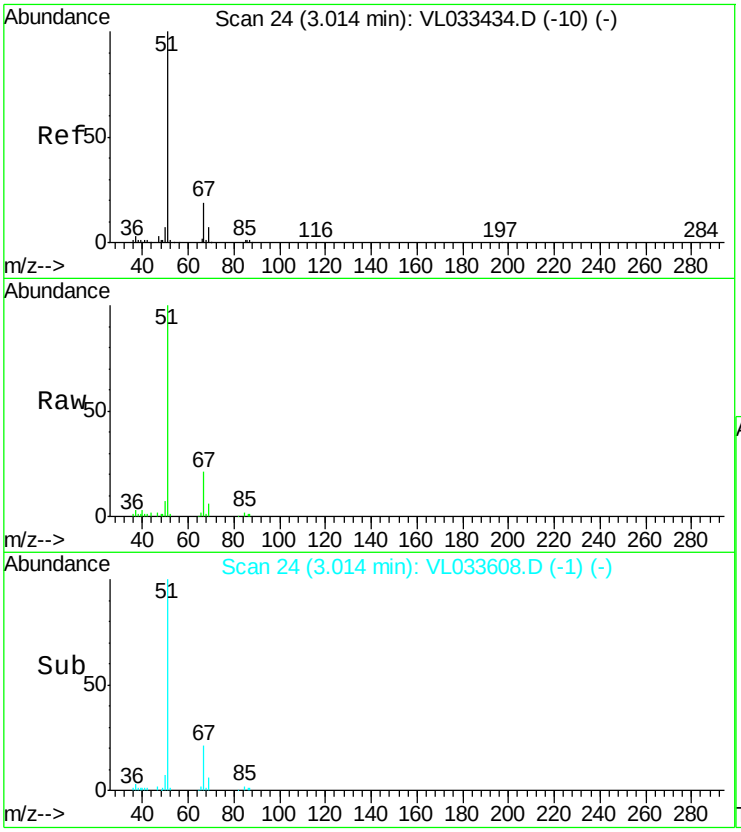


#2
Dichlorodifluoromethane
Concen: 0.956 ppbv
RT: 3.08 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 85 Resp: 114866

Ion	Ratio	Lower	Upper
85	100		
87	30.4	26.7	40.1



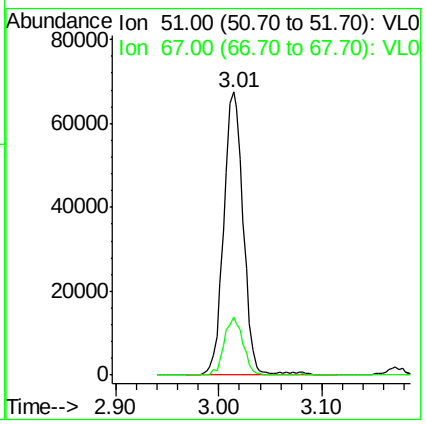


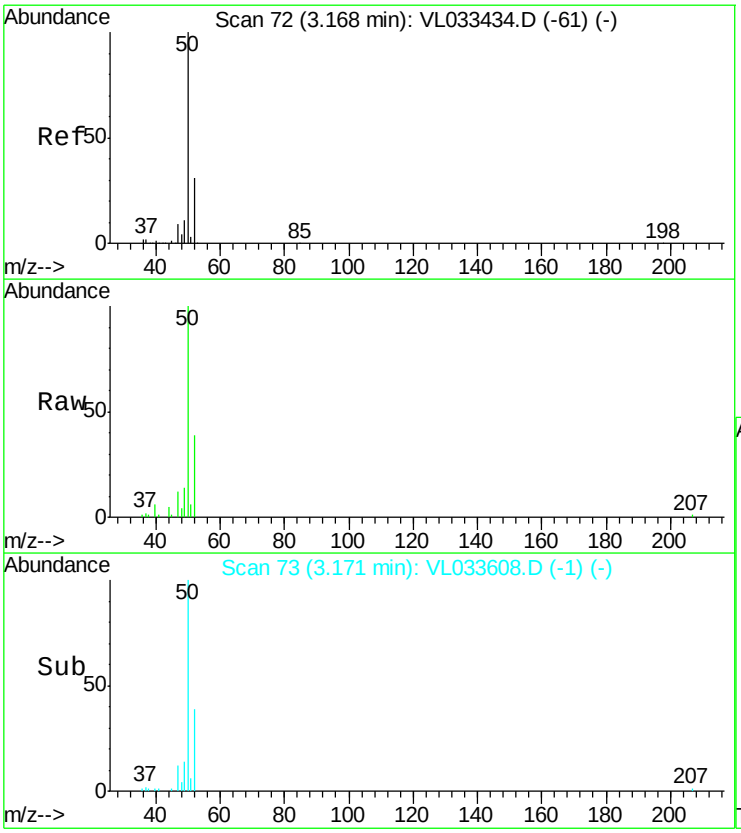
#3
Chlorodifluoromethane
Concen: 0.939 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 51 Resp: 89106

Ion	Ratio	Lower	Upper
51	100		
67	19.8	15.7	23.5

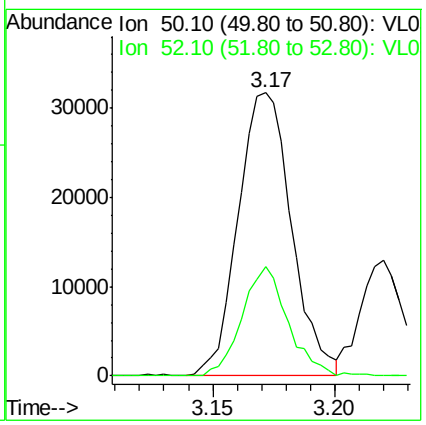


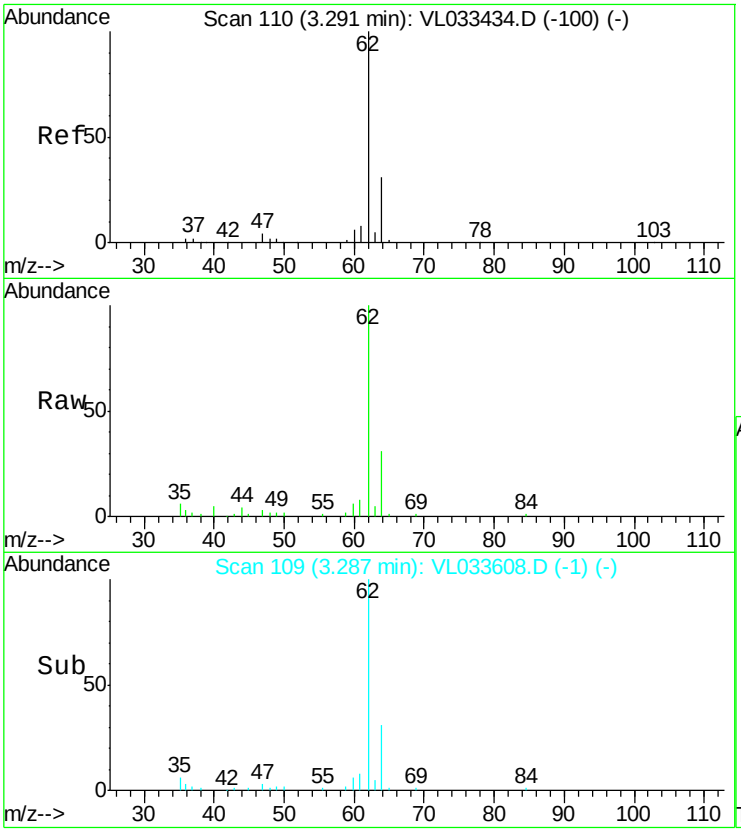


#4
Chloromethane
Concen: 0.957 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 50 Resp: 48062

Ion	Ratio	Lower	Upper
50	100		
52	38.6	25.0	37.6#



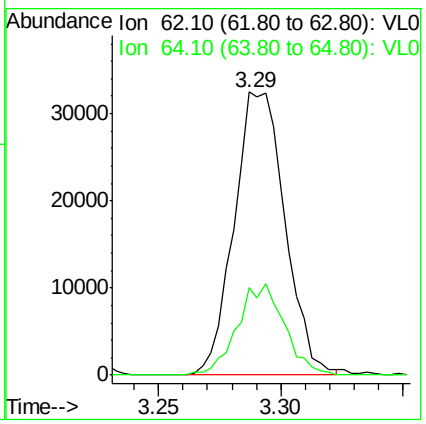


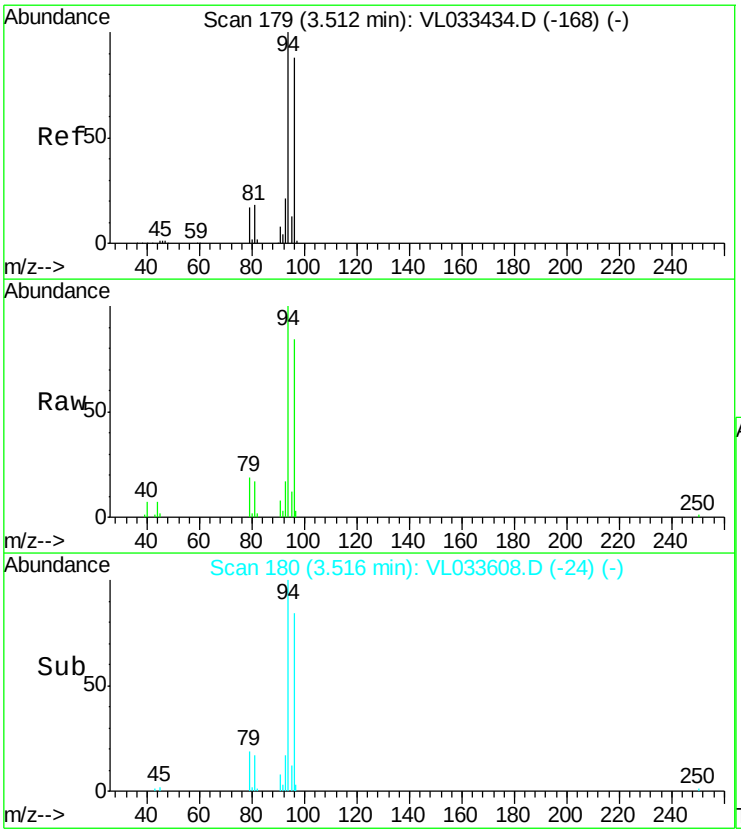
#5
Vinyl Chloride
Concen: 0.951 ppbv
RT: 3.29 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 62 Resp: 46928

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

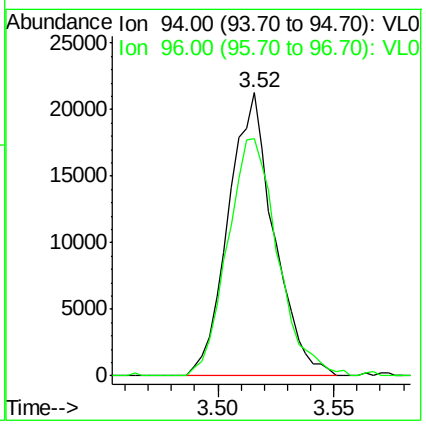


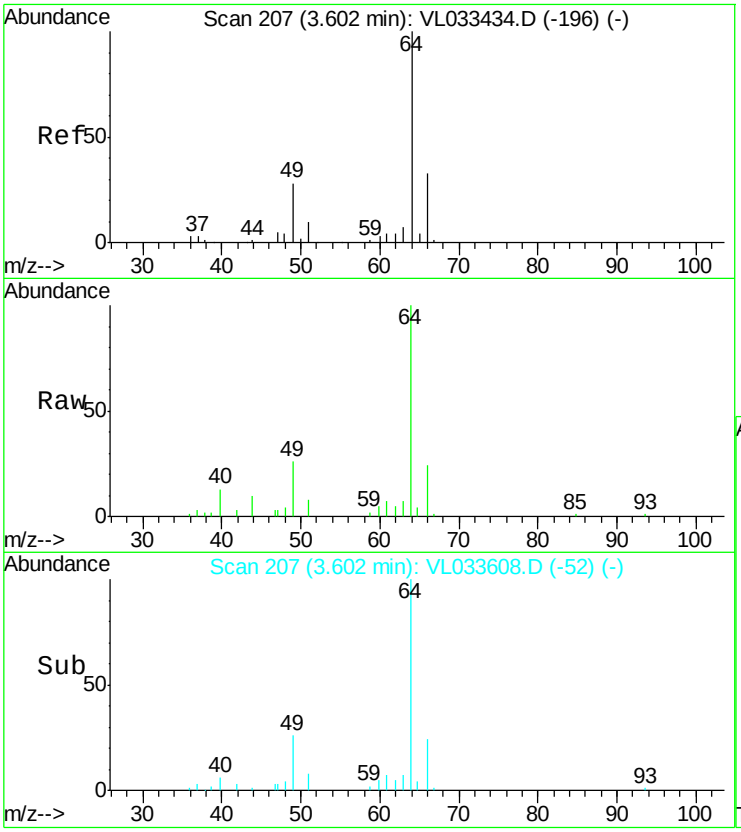


#6
Bromomethane
Concen: 0.915 ppbv
RT: 3.52 min Scan# 180
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 94 Resp: 29012

Ion	Ratio	Lower	Upper
94	100		
96	86.3	70.2	105.2



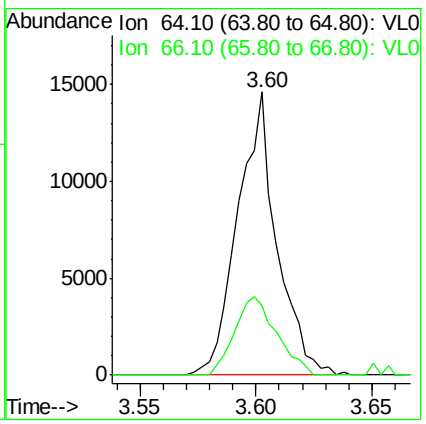


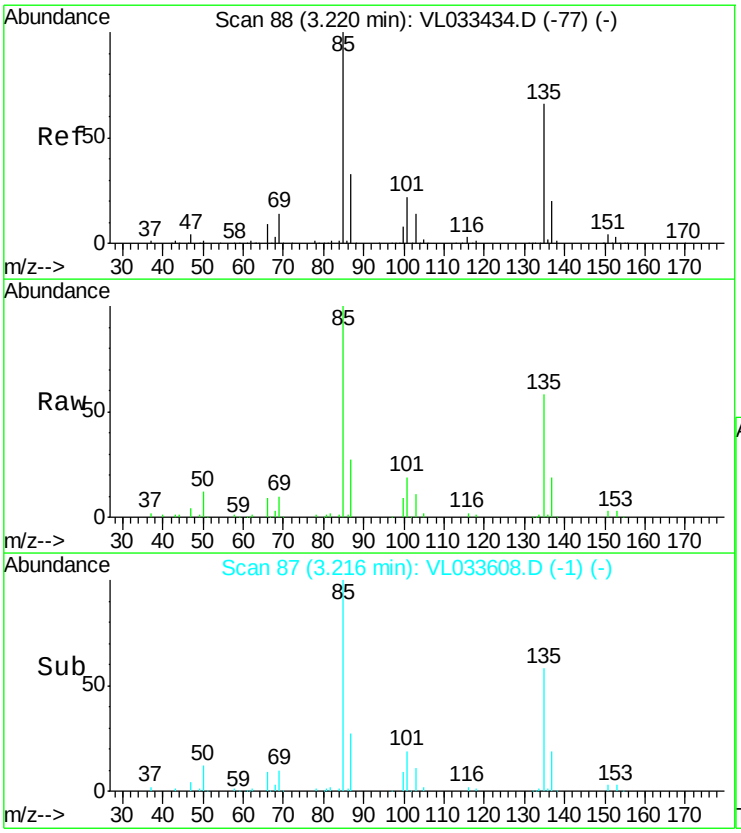
#7
Chloroethane
Concen: 0.929 ppbv
RT: 3.60 min Scan# 207
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 64 Resp: 17050

Ion	Ratio	Lower	Upper
64	100		
66	23.6	26.7	40.1#

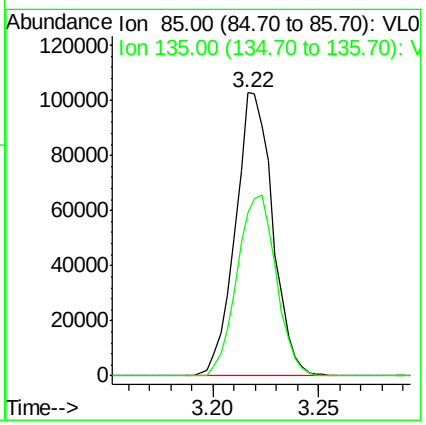


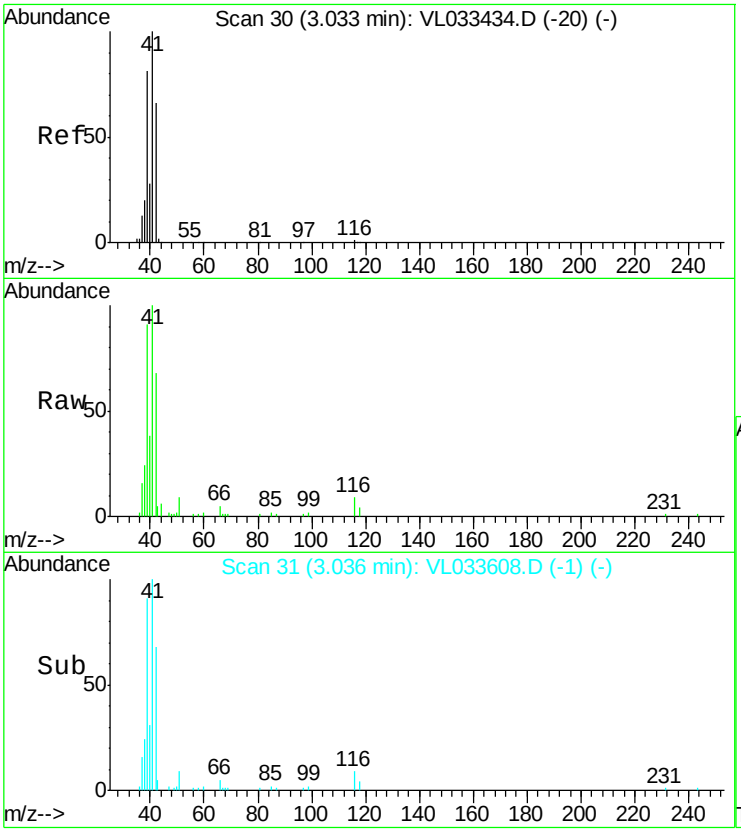


#8
Dichlorotetrafluoroethane
Concen: 0.987 ppbv
RT: 3.22 min Scan# 87
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 85 Resp: 126452

Ion	Ratio	Lower	Upper
85	100		
135	66.6	54.0	81.0



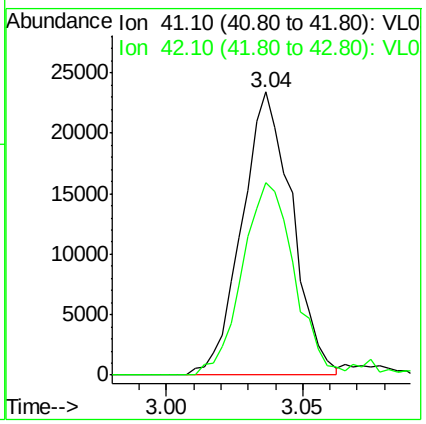


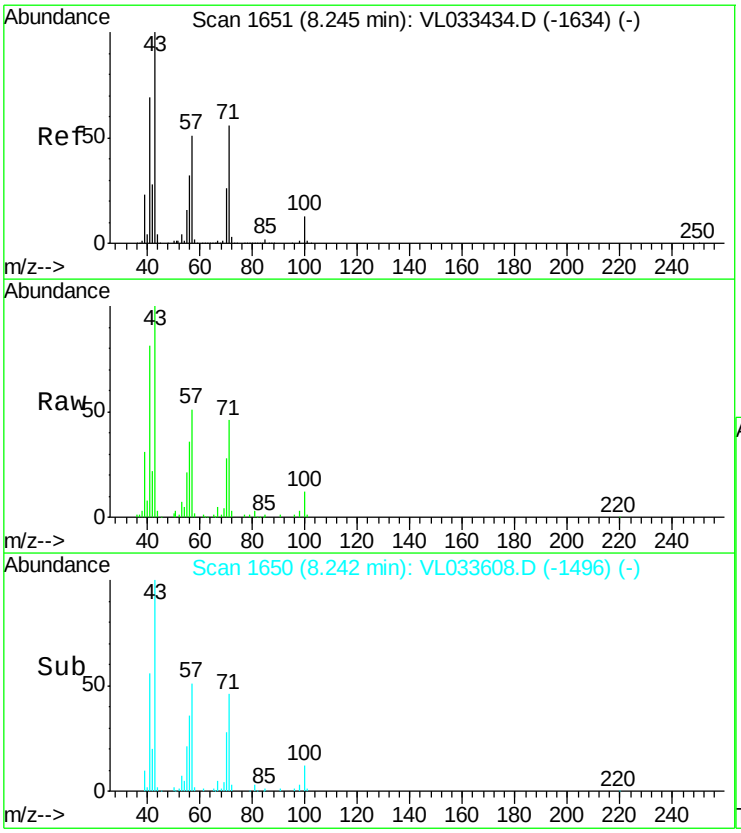
#9
Propene
Concen: 0.750 ppbv
RT: 3.04 min Scan# 31
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 41 Resp: 29870

Ion	Ratio	Lower	Upper
41	100		
42	72.9	53.9	80.9

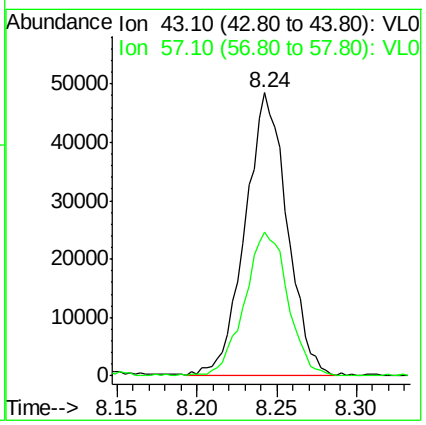


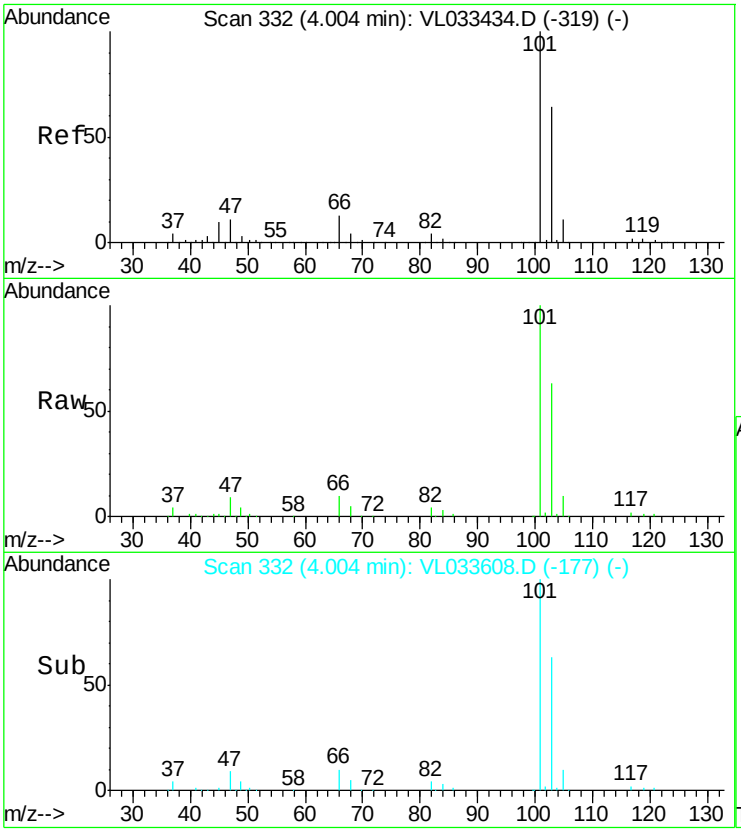


#10
Heptane
Concen: 0.823 ppbv
RT: 8.24 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 43 Resp: 87644

Ion	Ratio	Lower	Upper
43	100		
57	52.4	40.6	60.8



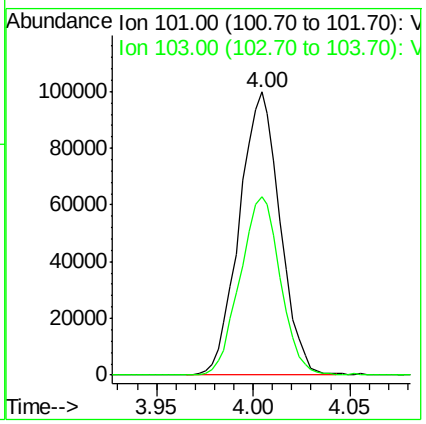


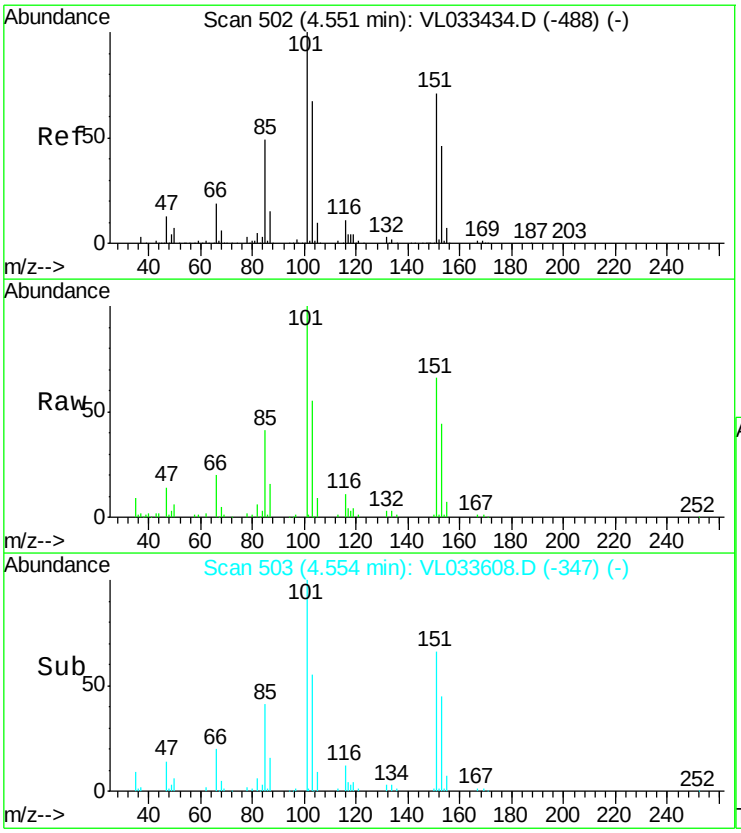
#11
Trichlorofluoromethane
Concen: 0.985 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:101 Resp: 145885

Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.3	76.9

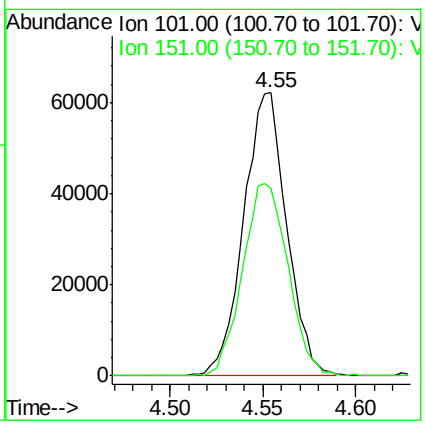


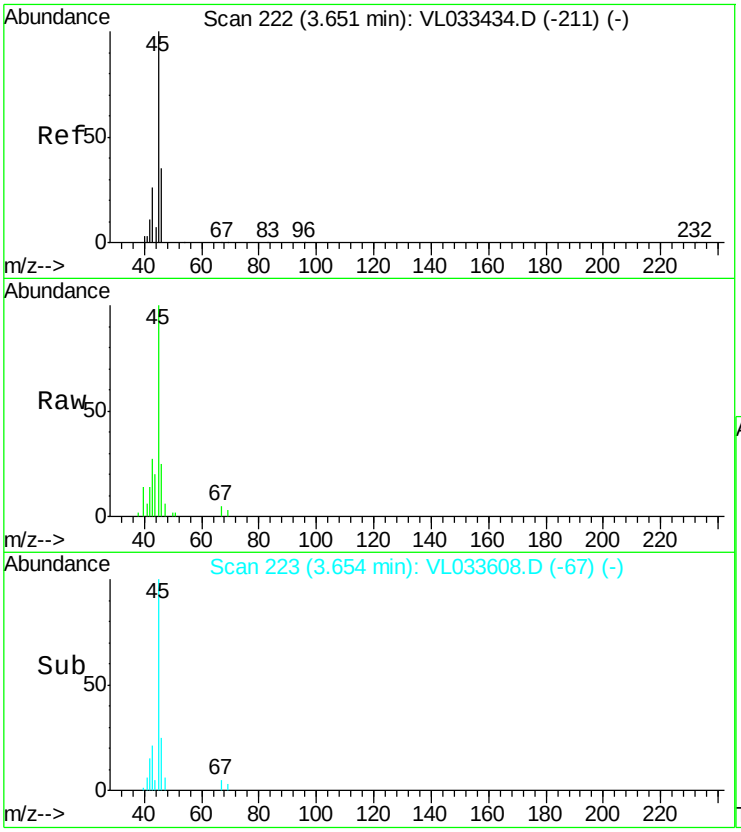


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.005 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:101 Resp: 99997

Ion	Ratio	Lower	Upper
101	100		
151	71.8	57.7	86.5



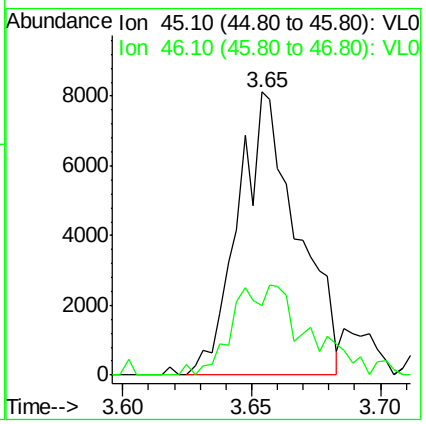


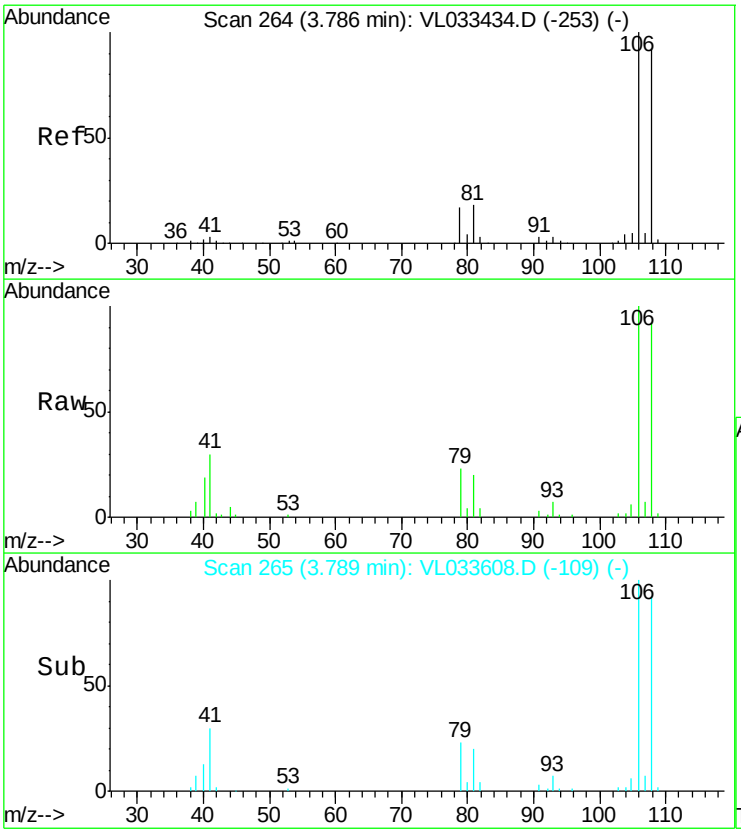
#13
Ethanol
Concen: 1.266 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 45 Resp: 13049

Ion	Ratio	Lower	Upper
45	100		
46	40.9	25.4	101.8

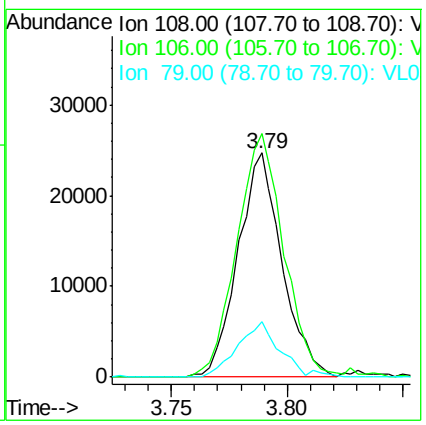


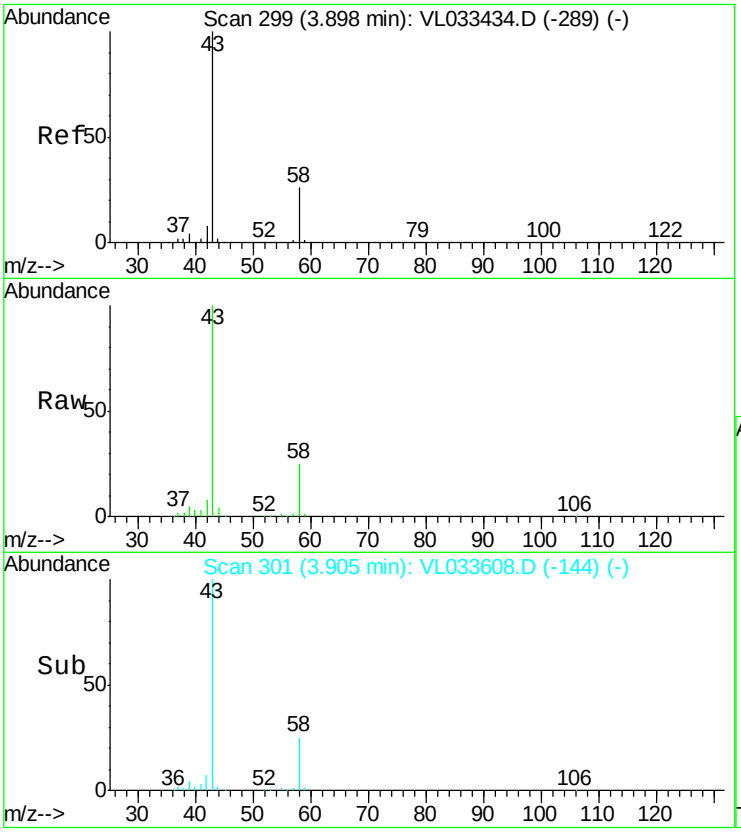


#14
Bromoethene
Concen: 0.824 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:108 Resp: 32696

Ion	Ratio	Lower	Upper
108	100		
106	117.0	86.4	129.6
79	23.9	15.8	23.8#



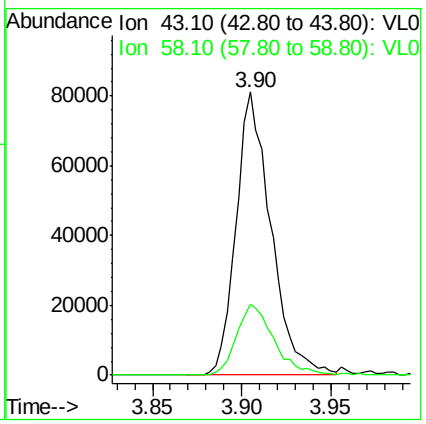


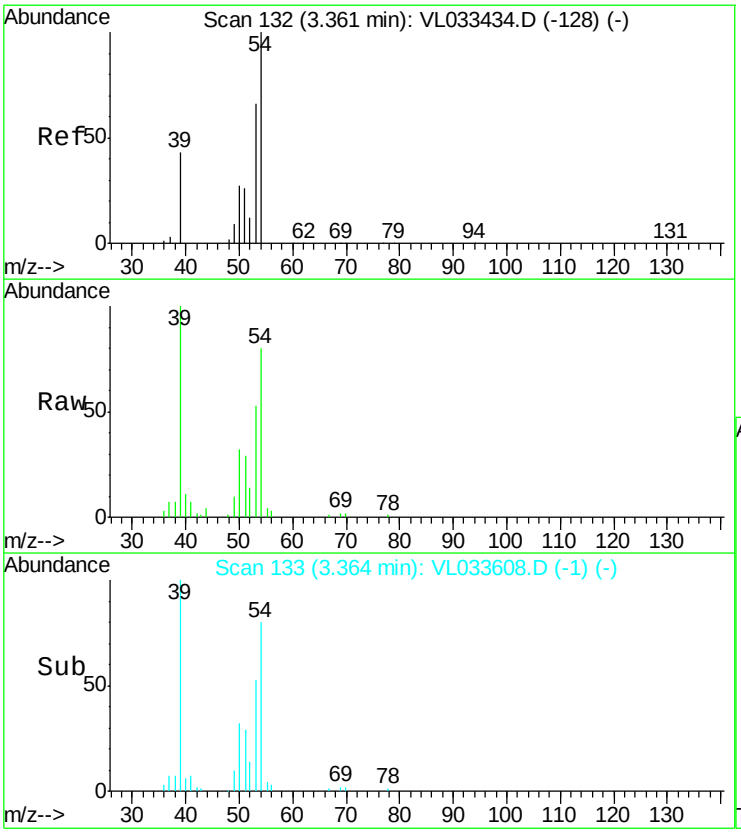
#15
Acetone
Concen: 1.115 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 43 Resp: 110453

Ion	Ratio	Lower	Upper
43	100		
58	27.0	20.5	30.7

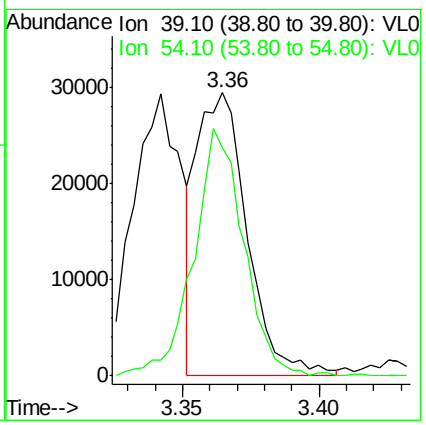


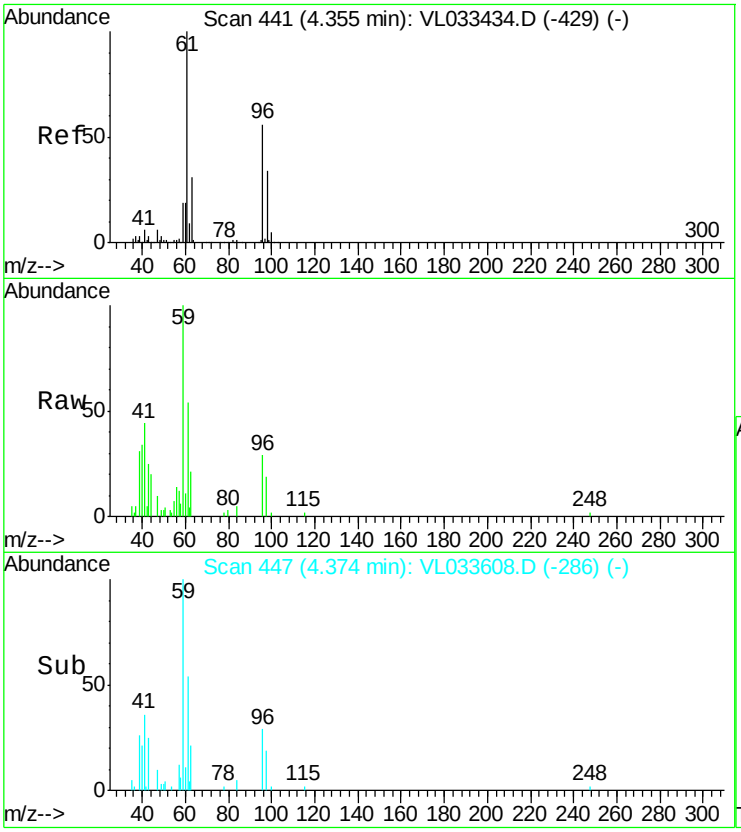


#16
1,3-Butadiene
Concen: 0.959 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 39 Resp: 37692

Ion	Ratio	Lower	Upper
39	100		
54	87.4	69.4	104.2



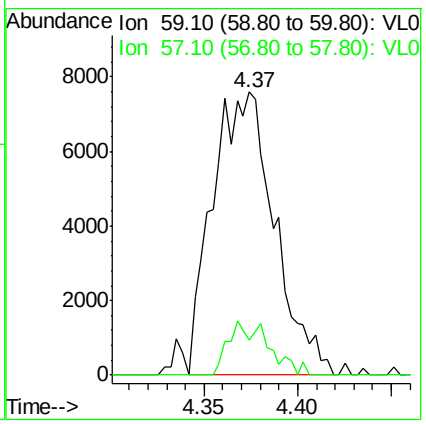


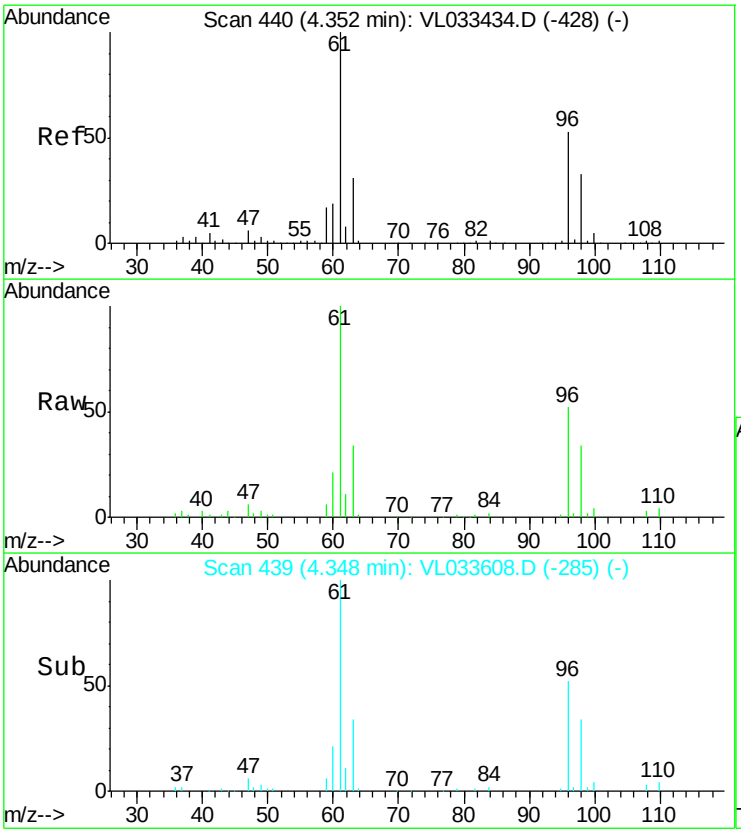
#17
tert-Butyl alcohol
Concen: 0.961 ppbv m
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 59 Resp: 17512

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.8#

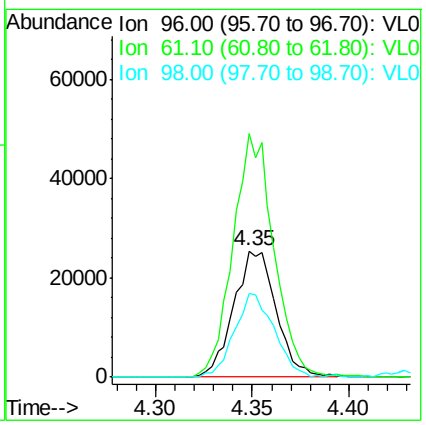


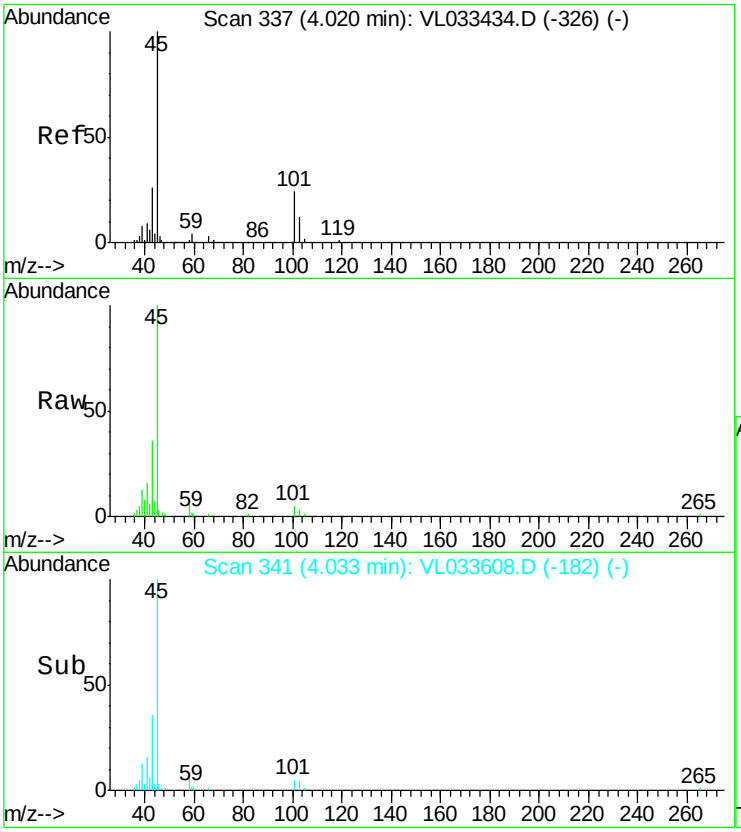


#18
1,1-Dichloroethene
Concen: 0.909 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 96 Resp: 38825

Ion	Ratio	Lower	Upper
96	100		
61	192.6	149.8	224.6
98	65.7	48.7	73.1



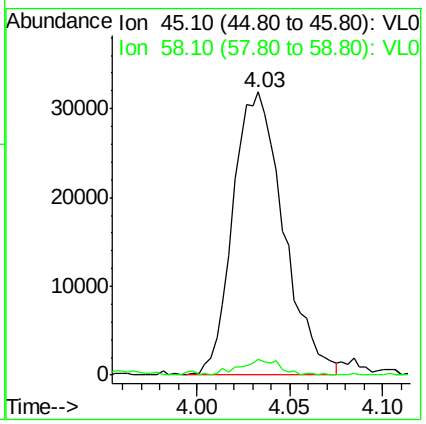


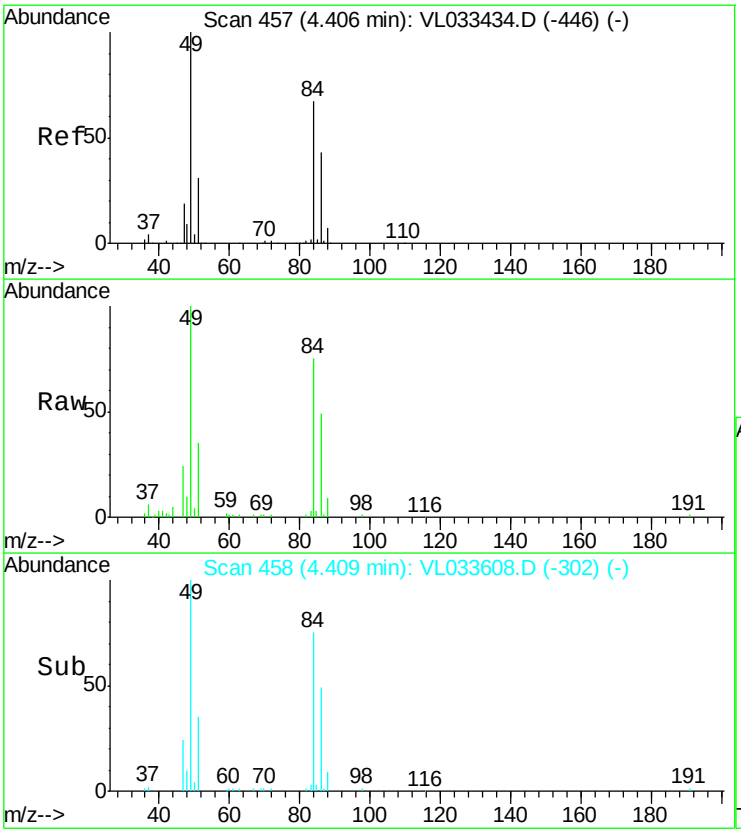
#19
Isopropyl Alcohol
Concen: 0.962 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 45 Resp: 60302

Ion	Ratio	Lower	Upper
45	100		
58	4.8	1.4	2.2#

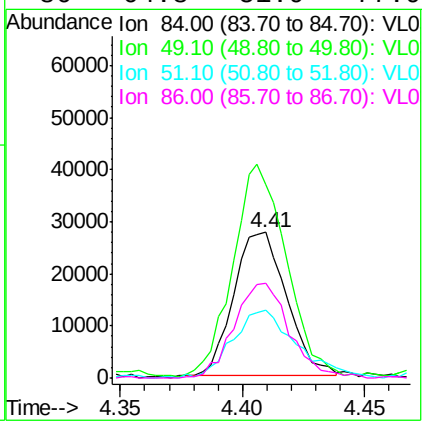


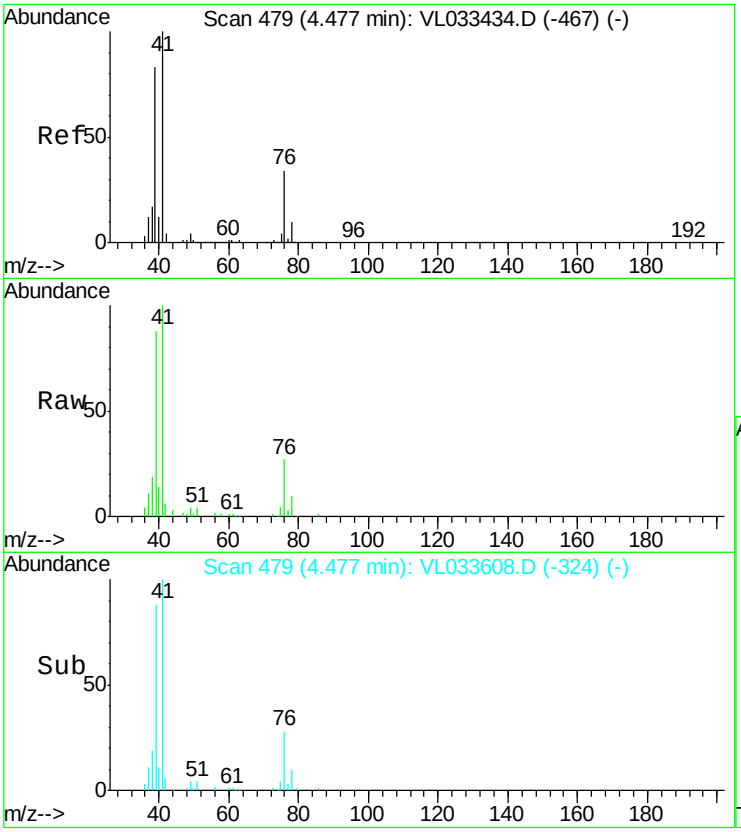


#20
Methylene Chloride
Concen: 0.987 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 84 Resp: 41497

Ion	Ratio	Lower	Upper
84	100		
49	131.9	120.0	180.0
51	44.6	36.7	55.1
86	64.8	51.9	77.9



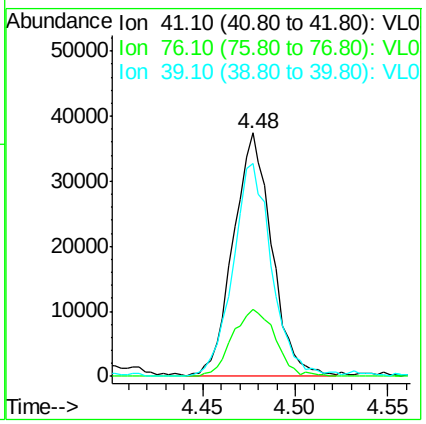


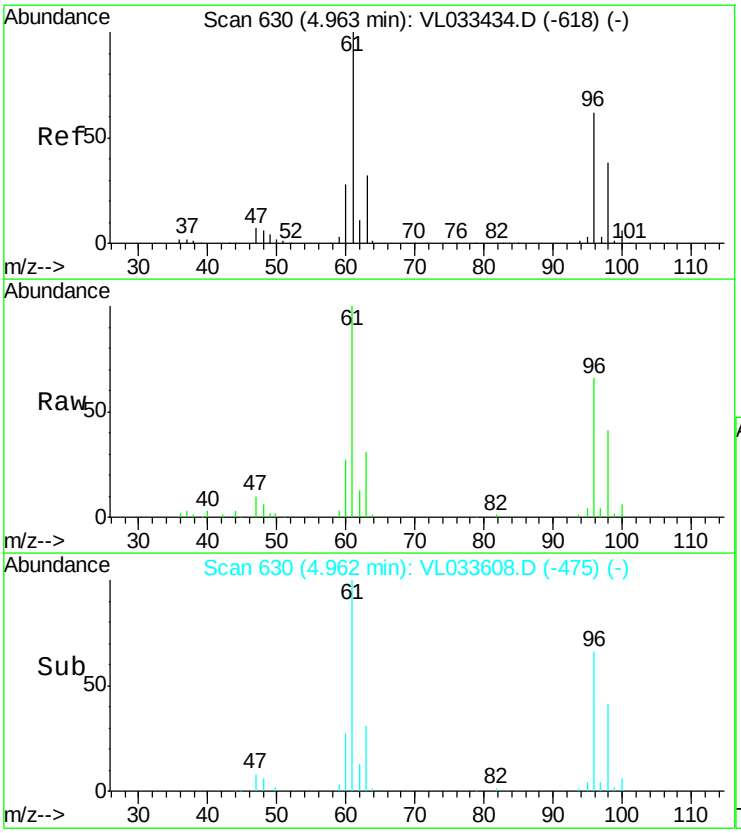
#21
Allyl Chloride
Concen: 0.865 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 41 Resp: 54156

Ion	Ratio	Lower	Upper
41	100		
76	30.4	25.4	38.2
39	89.7	65.3	97.9

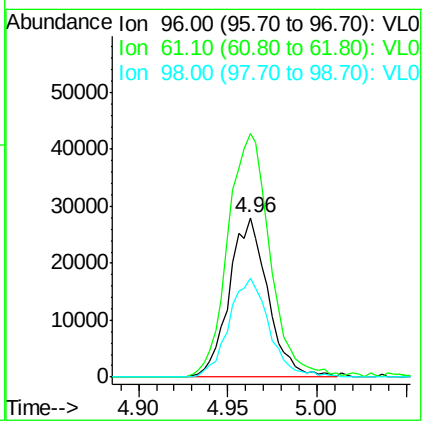


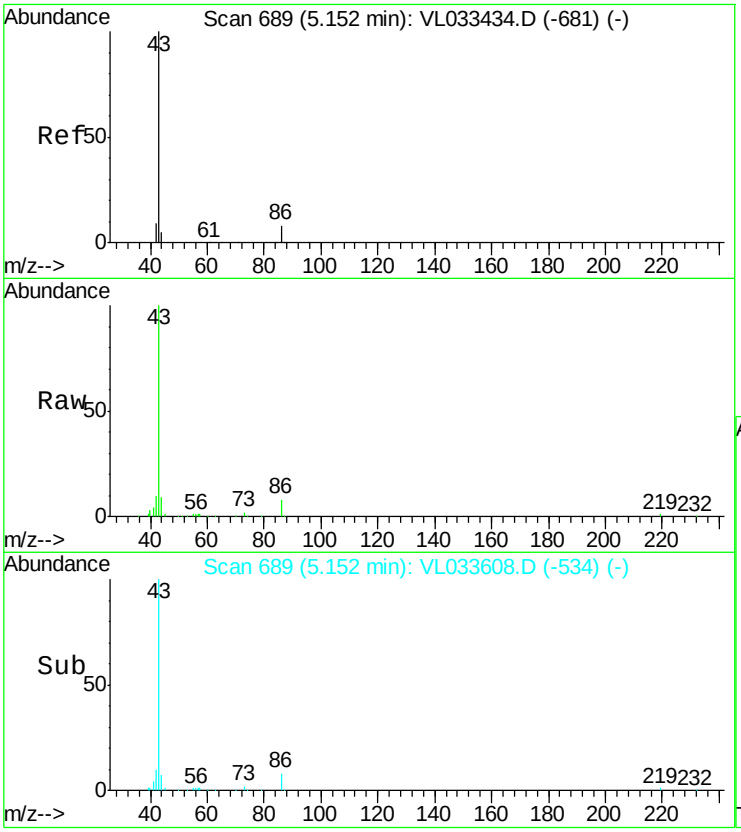


#22
trans-1,2-Dichloroethene
Concen: 0.948 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 96 Resp: 42253

Ion	Ratio	Lower	Upper
96	100		
61	152.6	128.9	193.3
98	62.1	49.5	74.3



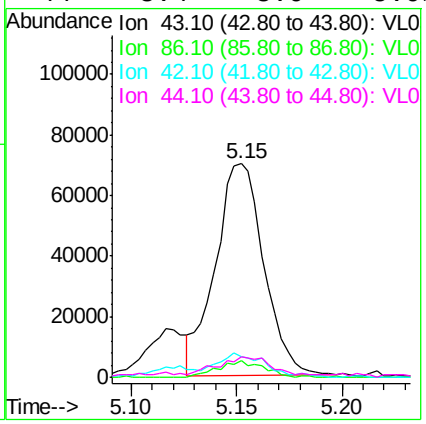


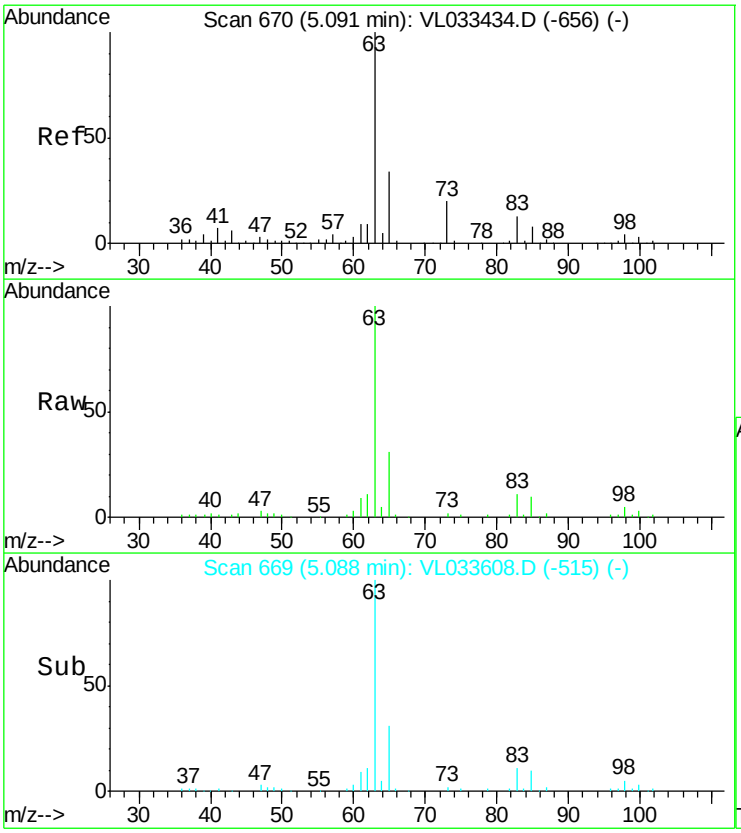
#23
Vinyl Acetate
Concen: 0.788 ppbv
RT: 5.15 min Scan# 689
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Tgt Ion: 43 Resp: 111065

Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.6	8.4
42	9.7	8.0	12.0
44	8.4	3.9	5.9#

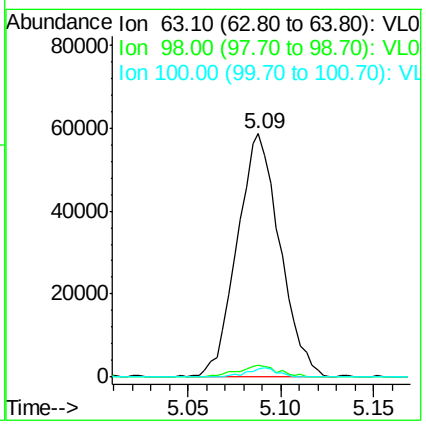


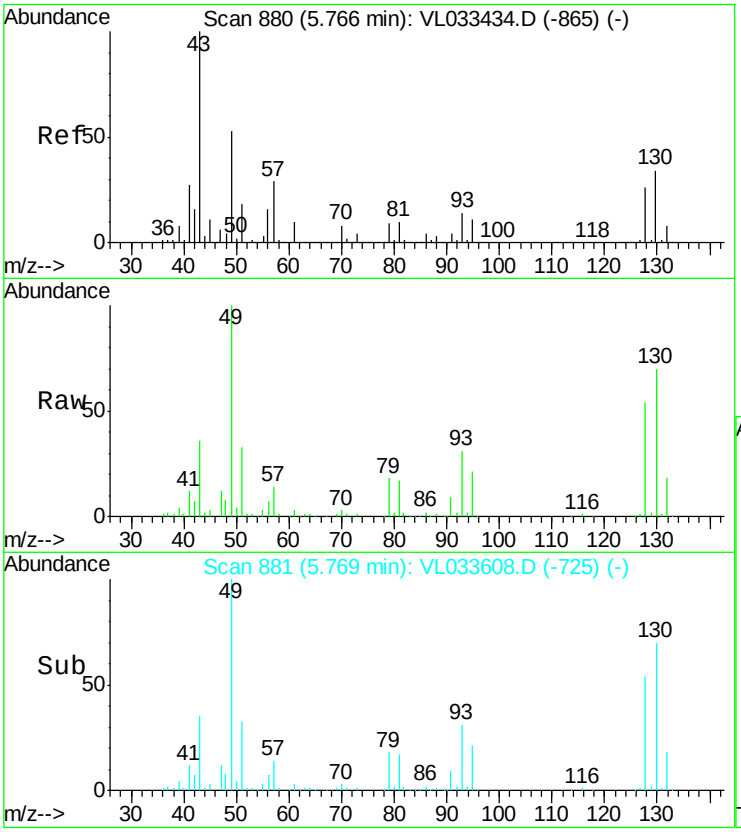


#24
1,1-Dichloroethane
Concen: 0.877 ppbv
RT: 5.09 min Scan# 669
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 63 Resp: 93988

Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.2	6.6
100	3.3	1.5	4.4



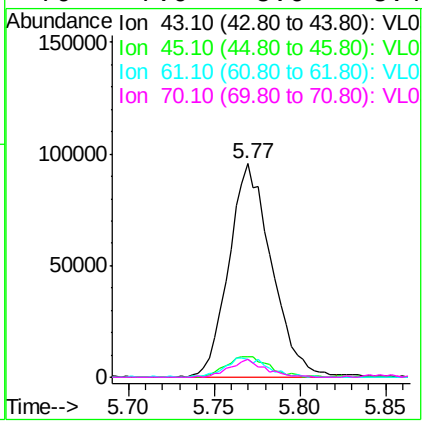


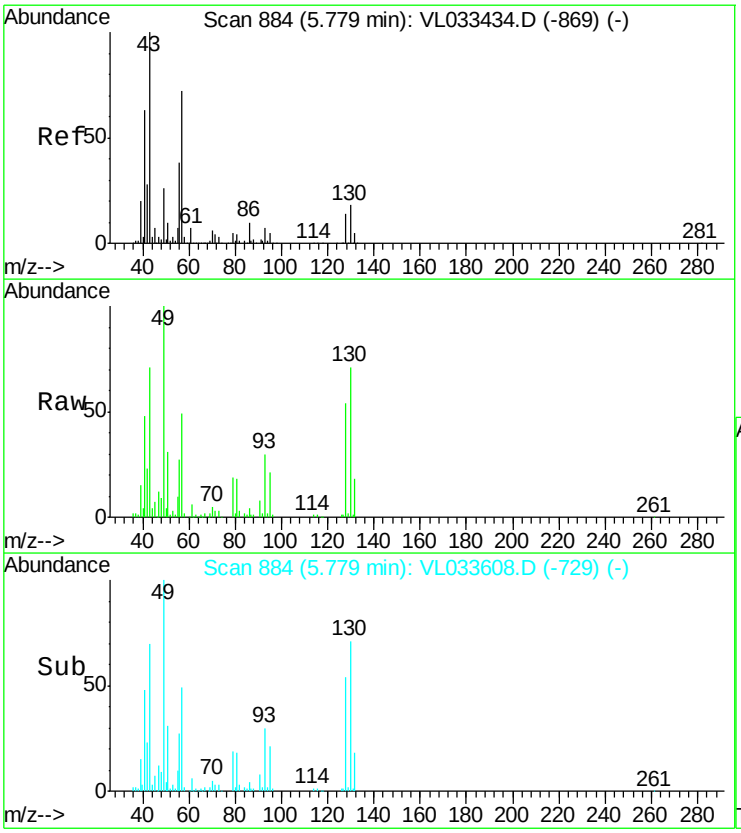
#25
Ethyl Acetate
Concen: 0.901 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Tgt Ion: 43 Resp: 165685

Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.8	11.6
61	9.1	7.3	10.9
70	7.0	5.6	8.4

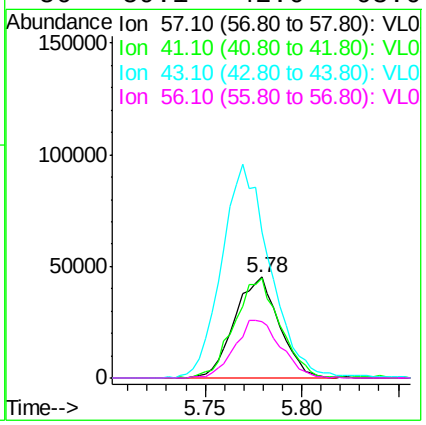


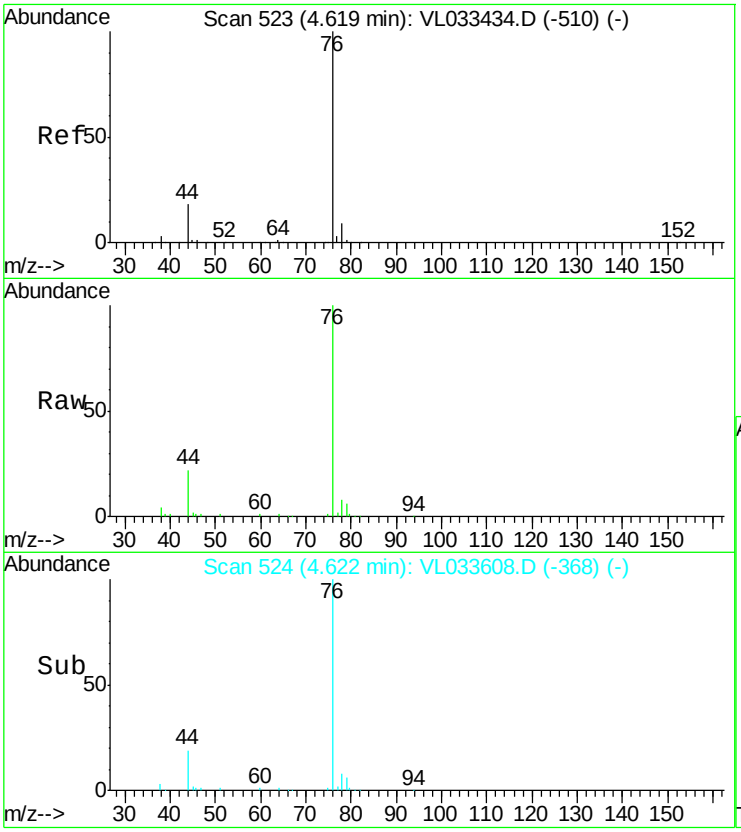


#26
Hexane
Concen: 0.890 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 57 Resp: 72750

Ion	Ratio	Lower	Upper
57	100		
41	101.2	70.7	106.1
43	231.0	182.6	274.0
56	59.1	42.0	63.0



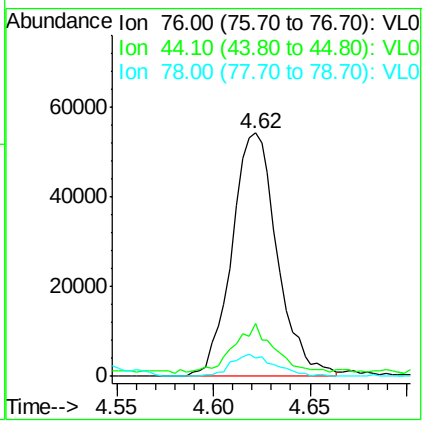


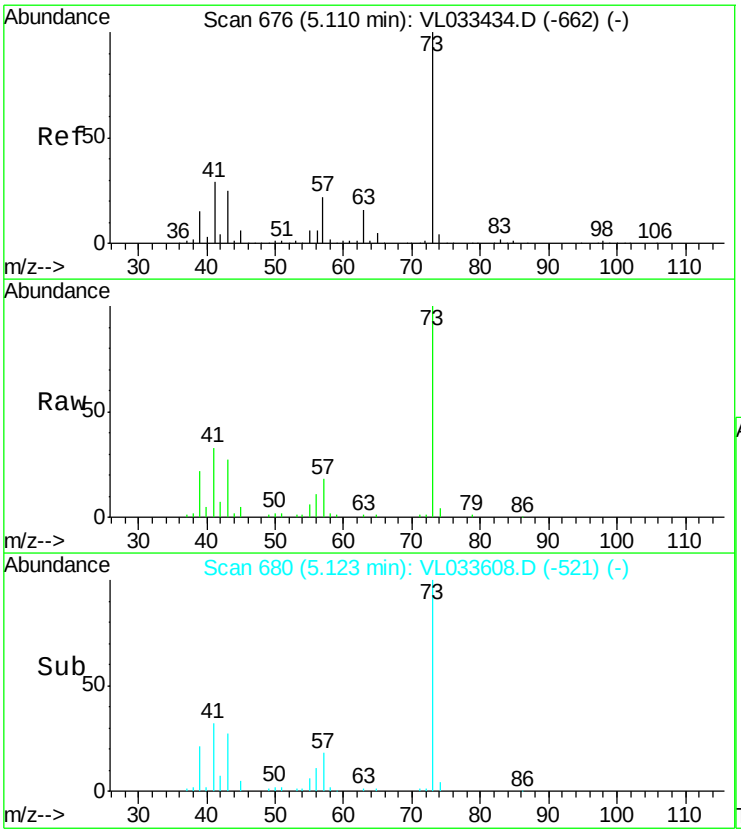
#27
Carbon Disulfide
Concen: 0.911 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 76 Resp: 88520

Ion	Ratio	Lower	Upper
76	100		
44	17.0	14.8	22.2
78	8.8	7.6	11.4

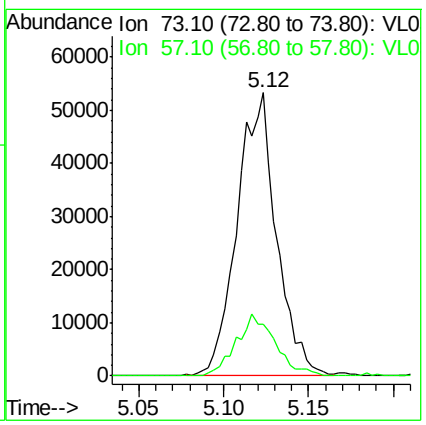


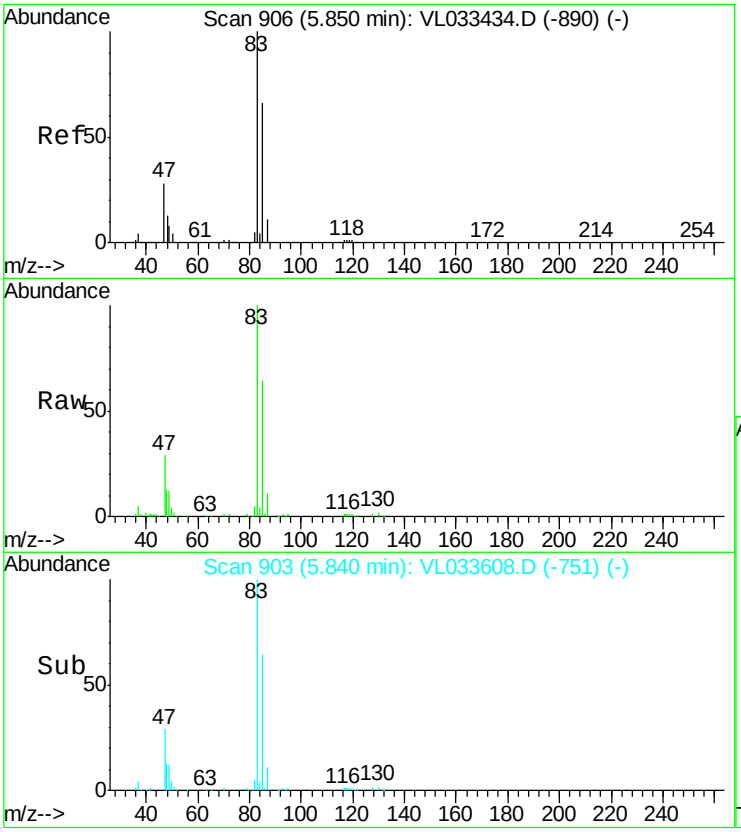


#28
Methyl tert-Butyl Ether
Concen: 0.733 ppbv m
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 73 Resp: 86271

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.4	26.2



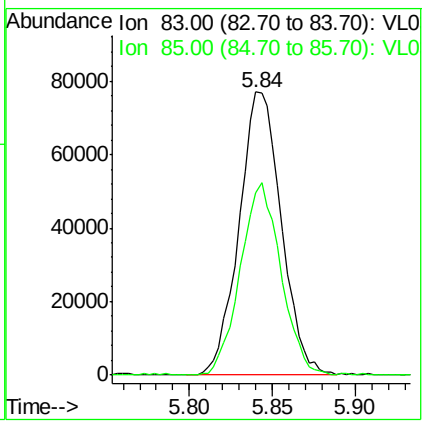


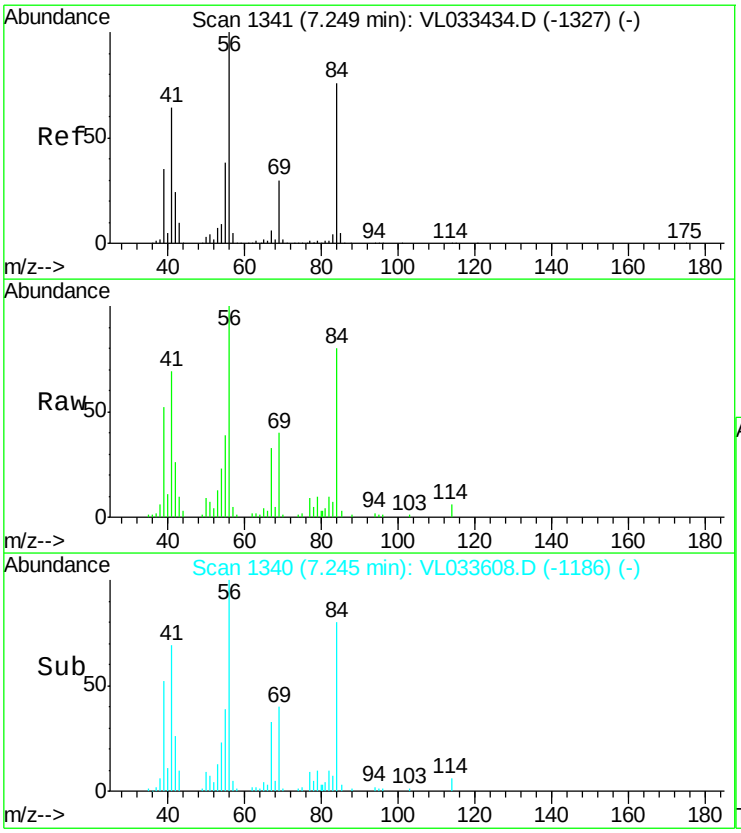
#29
Chloroform
Concen: 0.972 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 83 Resp: 136160

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	79.0

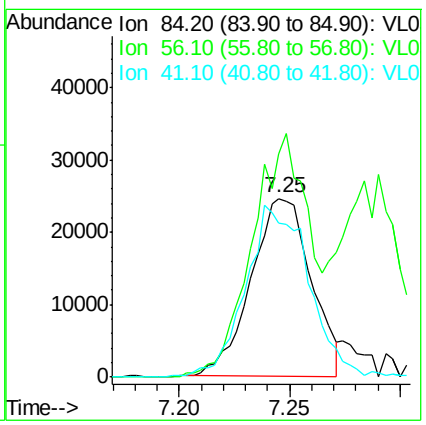


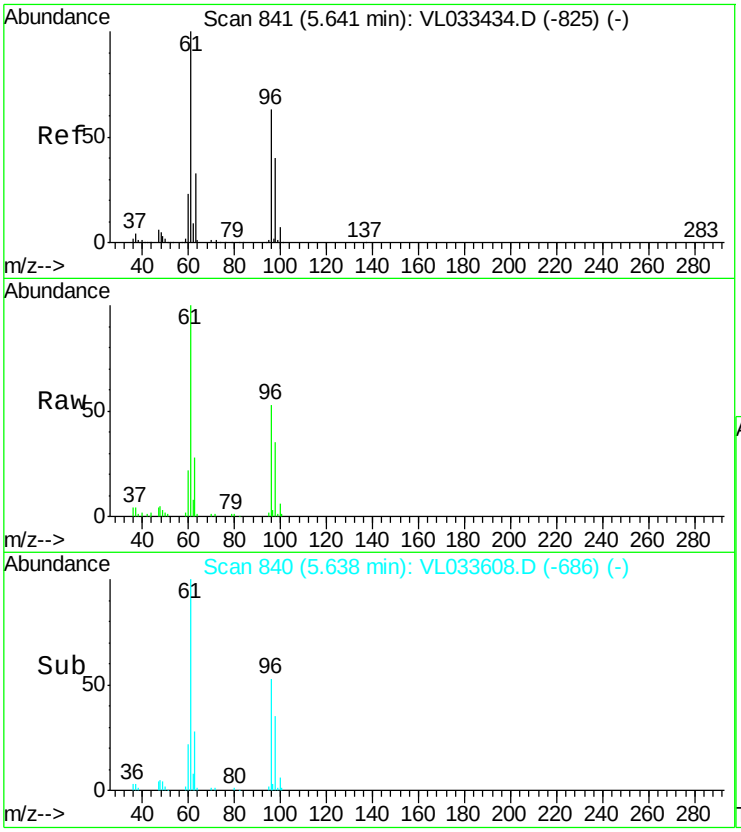


#30
Cyclohexane
Concen: 0.714 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 84 Resp: 46155

Ion	Ratio	Lower	Upper
84	100		
56	122.9	109.7	164.5
41	102.5	68.2	102.2#



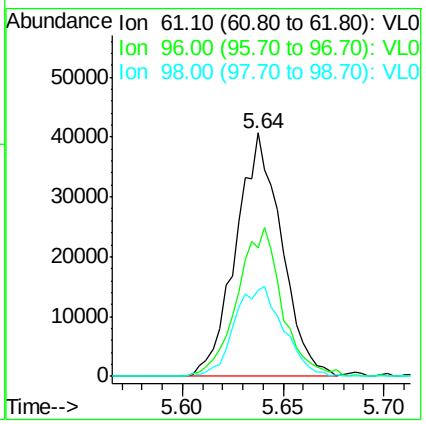


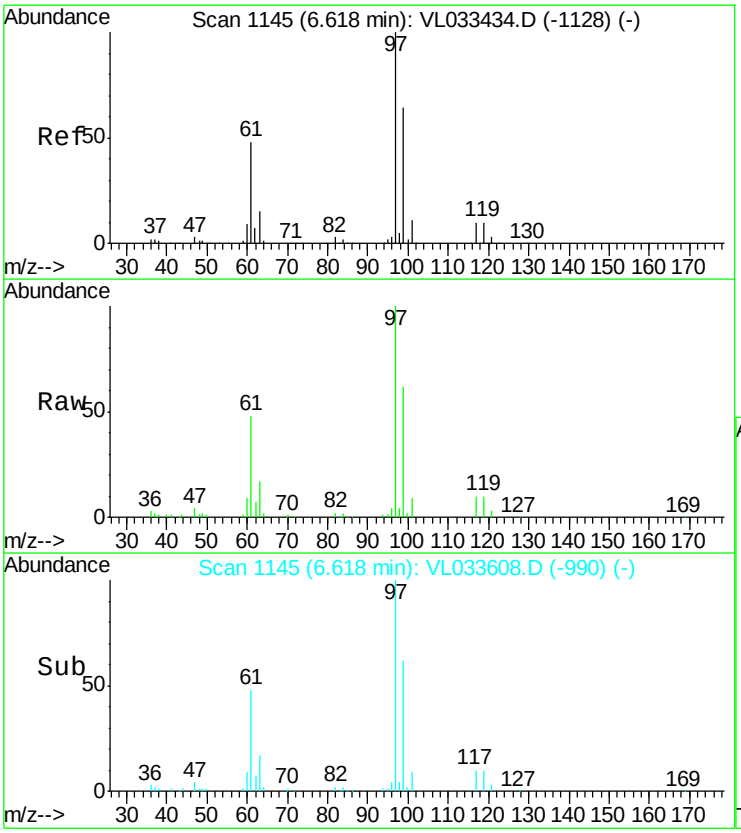
#31
cis-1,2-Dichloroethene
Concen: 0.792 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 61 Resp: 64329

Ion	Ratio	Lower	Upper
61	100		
96	52.8	50.6	76.0
98	35.2	32.2	48.2

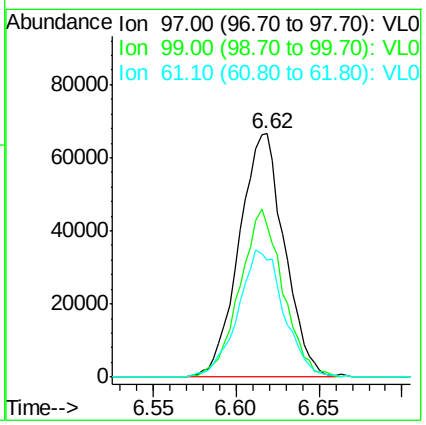


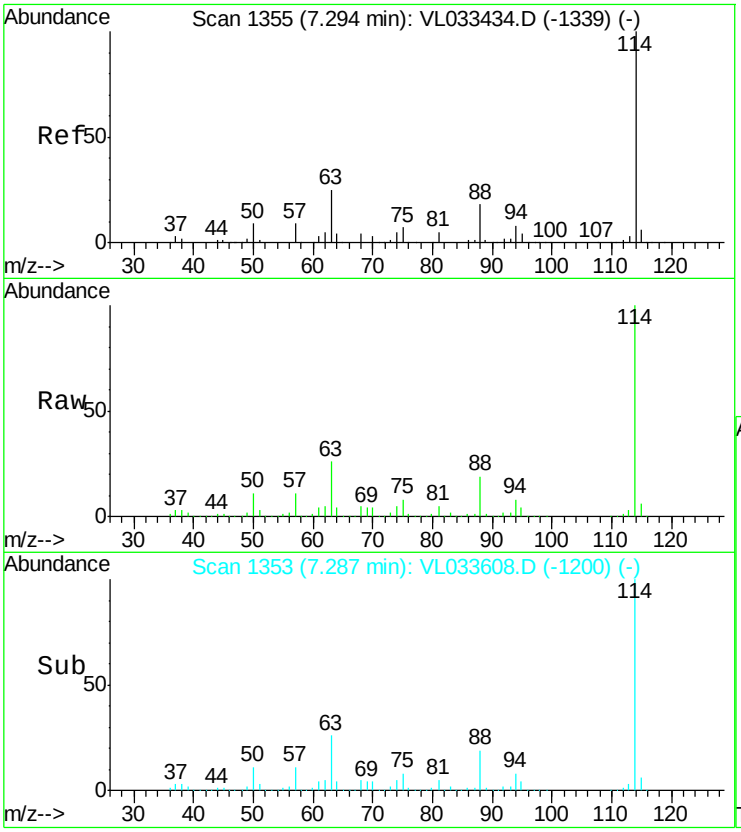


#32
1,1,1-Trichloroethane
Concen: 0.949 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 97 Resp: 126663

Ion	Ratio	Lower	Upper
97	100		
99	65.7	51.5	77.3
61	52.8	38.8	58.2



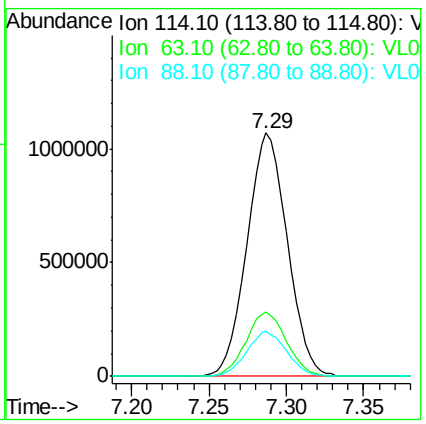


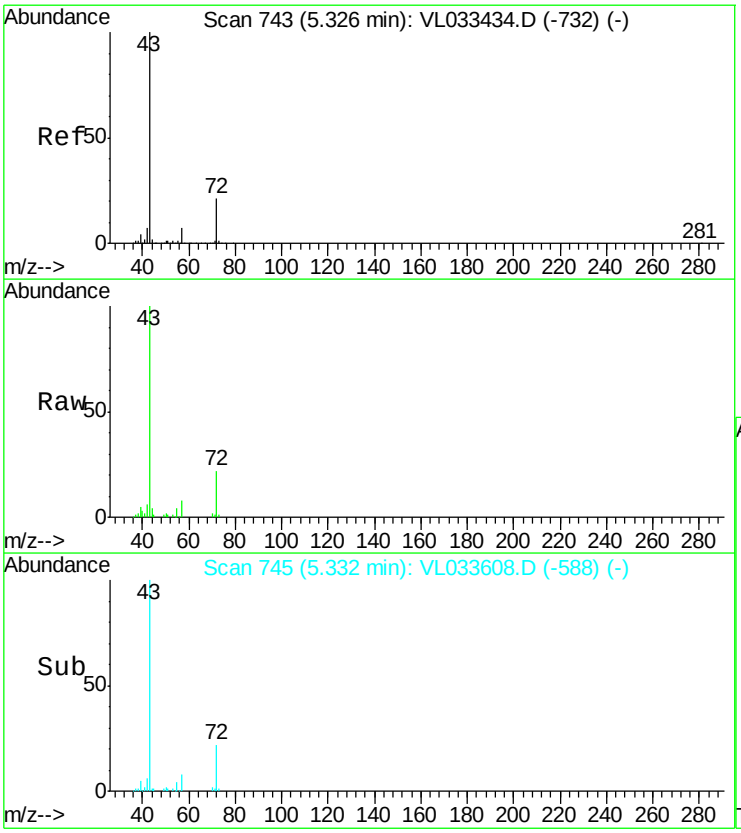
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:114 Resp: 1945225

Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.5	32.3
88	18.3	14.5	21.7

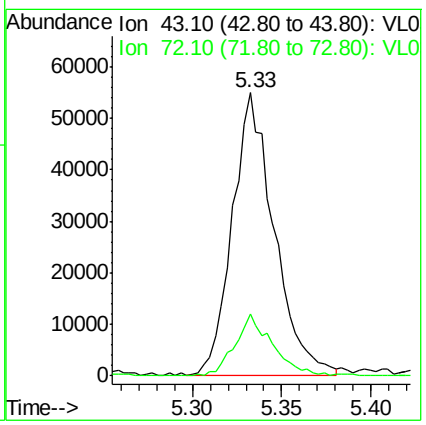


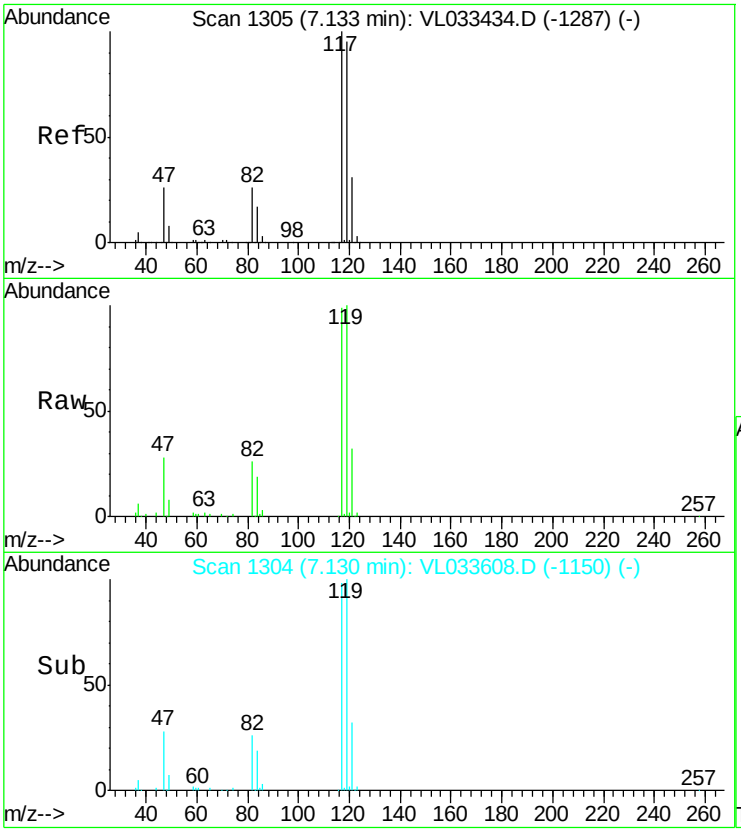


#34
2-Butanone
Concen: 0.771 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 43 Resp: 90160

Ion	Ratio	Lower	Upper
43	100		
72	20.0	17.4	26.2



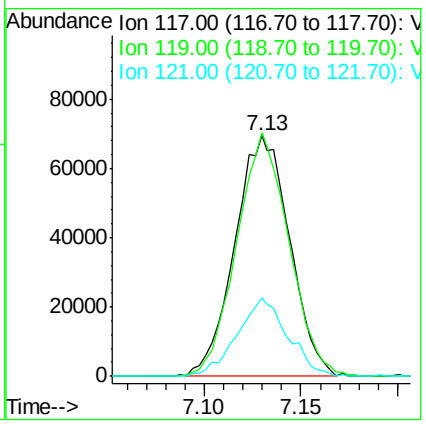


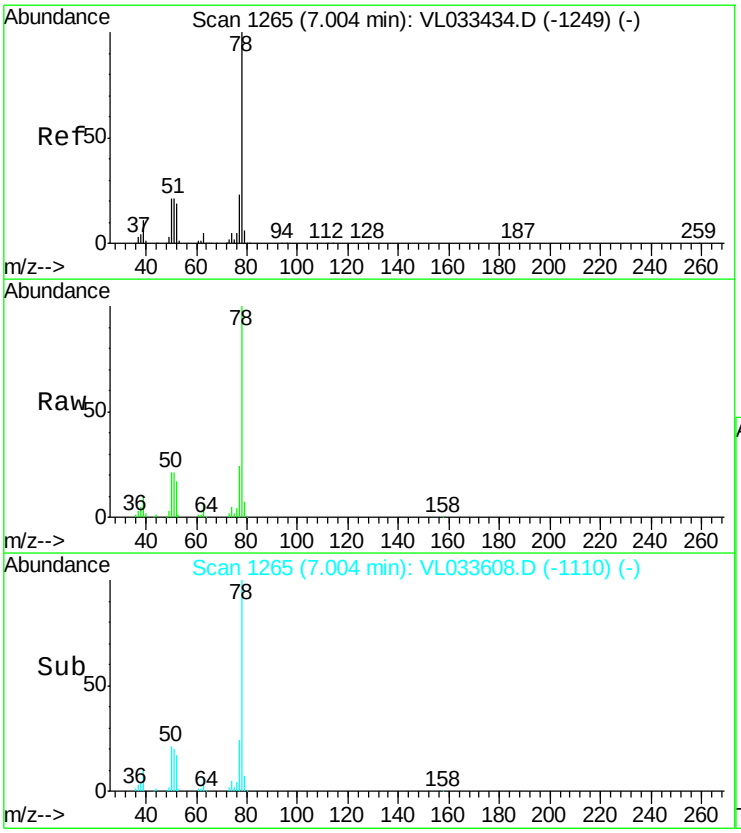
#35
Carbon Tetrachloride
Concen: 0.991 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:117 Resp: 136585

Ion	Ratio	Lower	Upper
117	100		
119	100.3	75.8	113.8
121	32.6	24.7	37.1

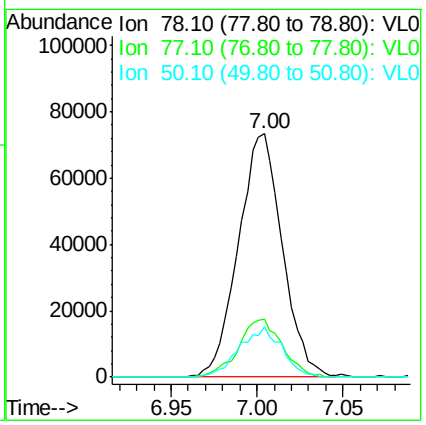


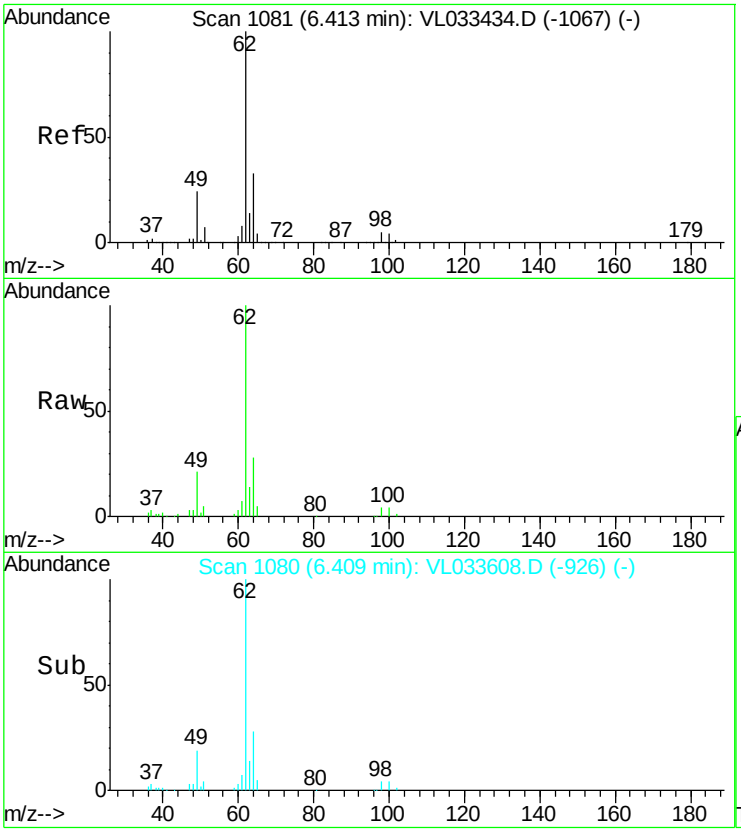


#36
Benzene
Concen: 0.798 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 78 Resp: 130183

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.1	27.1
50	20.7	16.7	25.1



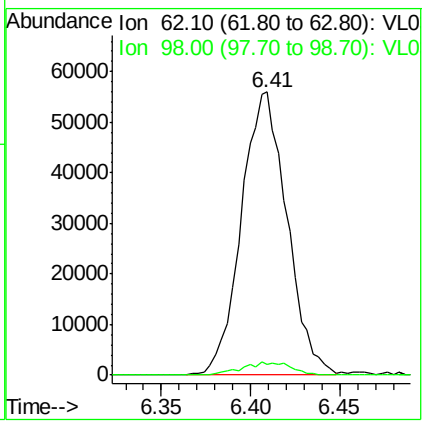


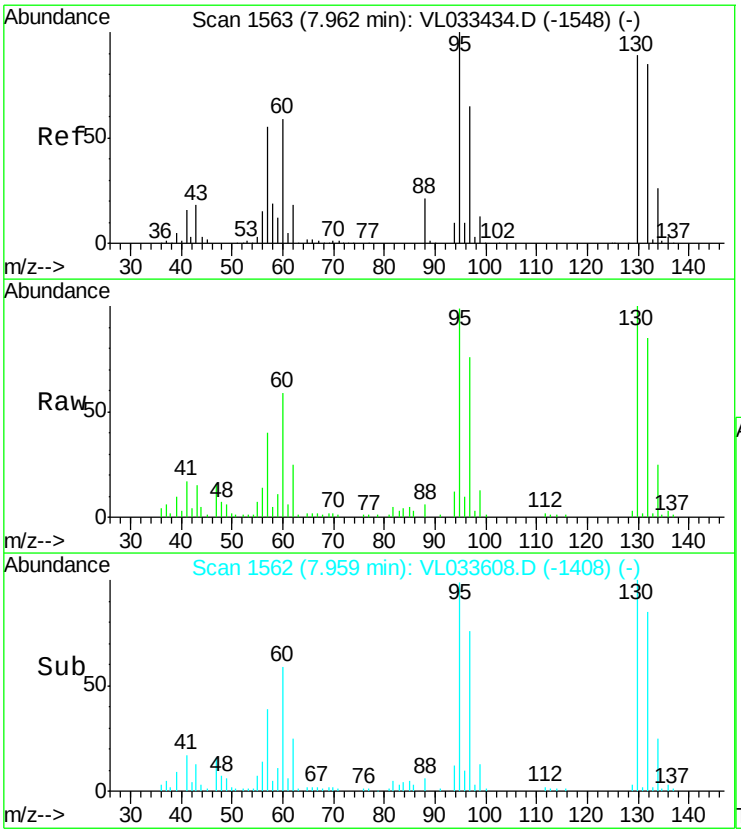
#37
1,2-Dichloroethane
Concen: 0.915 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 62 Resp: 100066

Ion	Ratio	Lower	Upper
62	100		
98	4.8	4.4	6.6

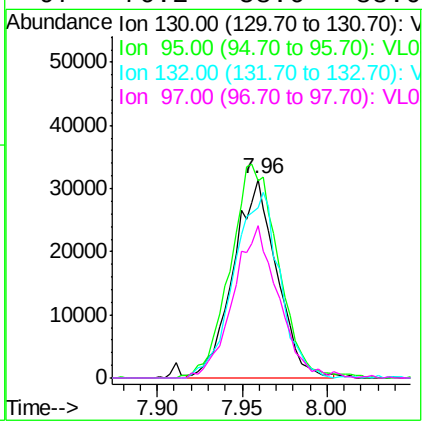


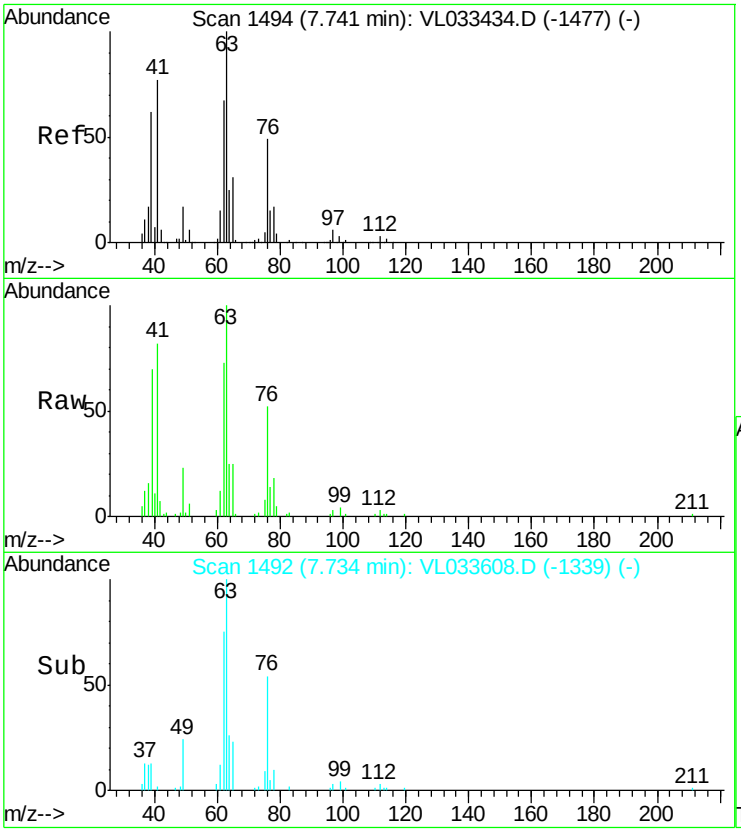


#38
Trichloroethene
Concen: 0.914 ppbv m
RT: 7.96 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:130 Resp: 56150

Ion	Ratio	Lower	Upper
130	100		
95	99.3	89.8	134.8
132	85.4	76.6	115.0
97	76.2	58.6	88.0



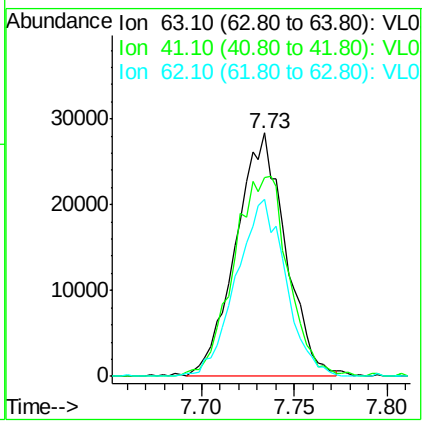


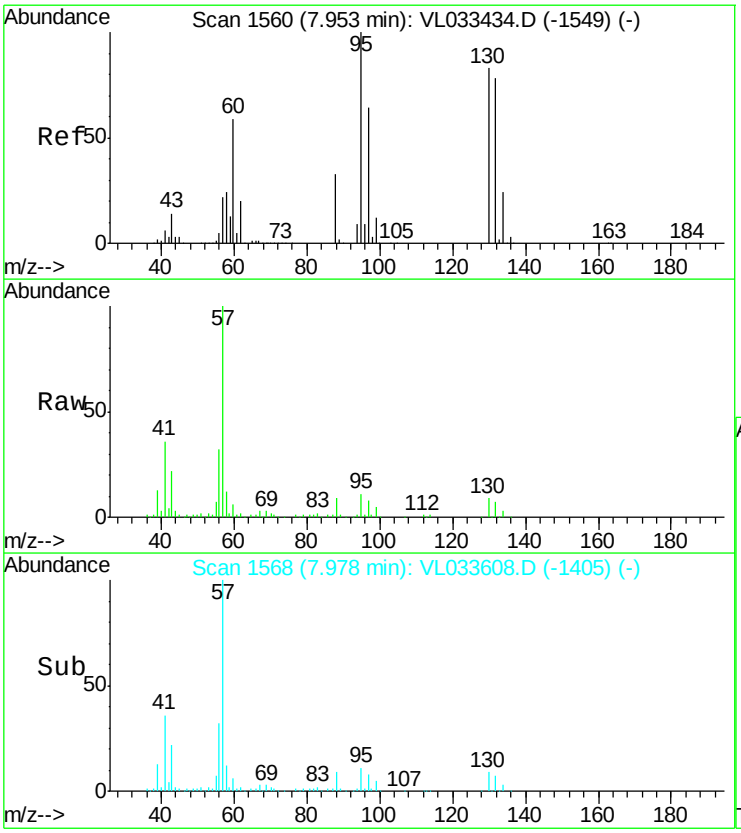
#39
1,2-Dichloropropane
Concen: 0.825 ppbv
RT: 7.73 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 63 Resp: 52774

Ion	Ratio	Lower	Upper
63	100		
41	80.7	61.2	91.8
62	71.4	54.0	81.0

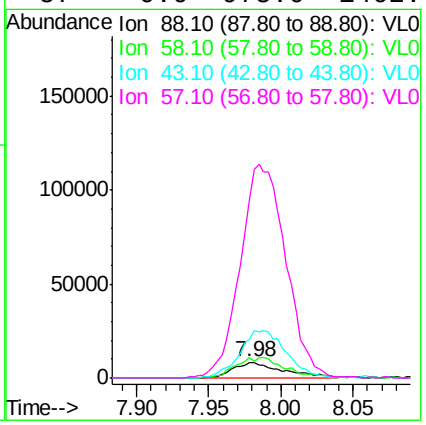


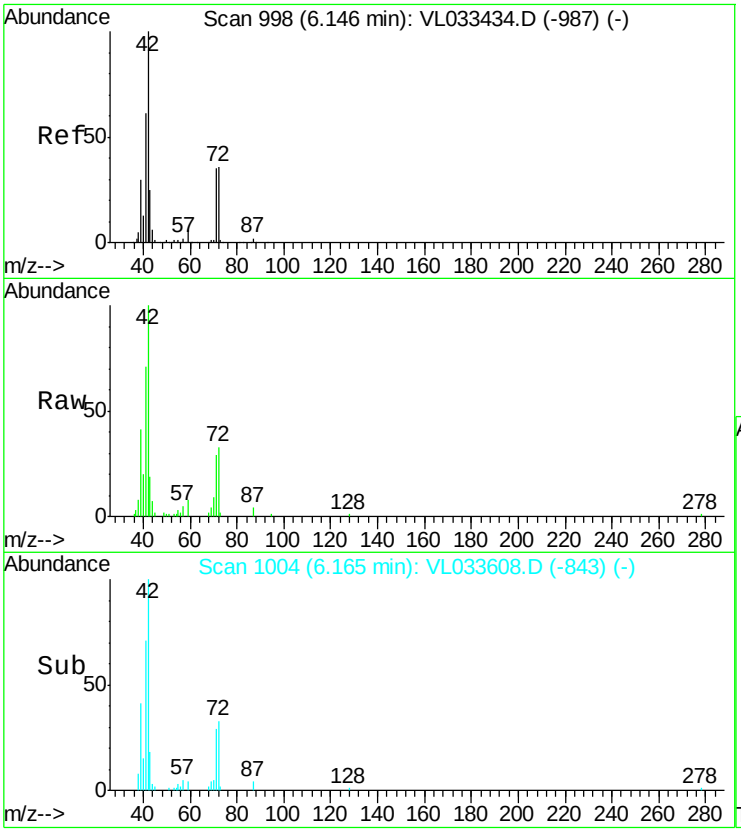


#40
1,4-Dioxane
Concen: 0.881 ppbv m
RT: 7.98 min Scan# 1568
Delta R.T. 0.03 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 88 Resp: 20080

Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.6	158.4#
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#



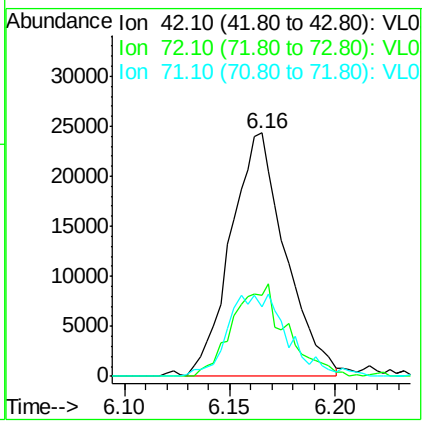


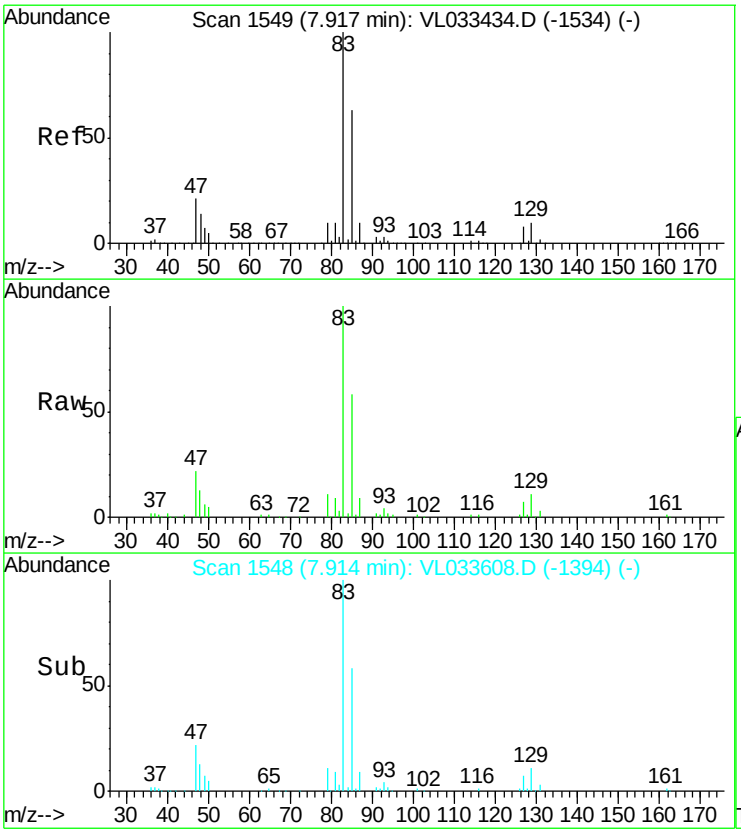
#41
Tetrahydrofuran
Concen: 0.680 ppbv
RT: 6.16 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 42 Resp: 43730

Ion	Ratio	Lower	Upper
42	100		
72	37.3	30.2	45.2
71	37.5	29.4	44.2

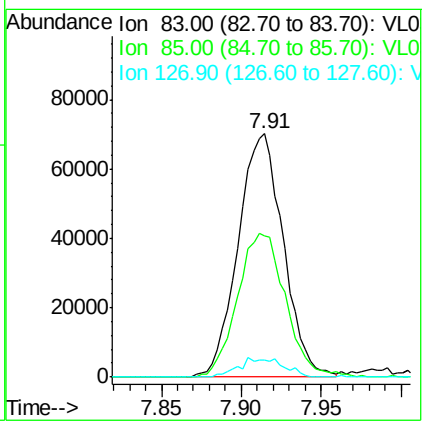


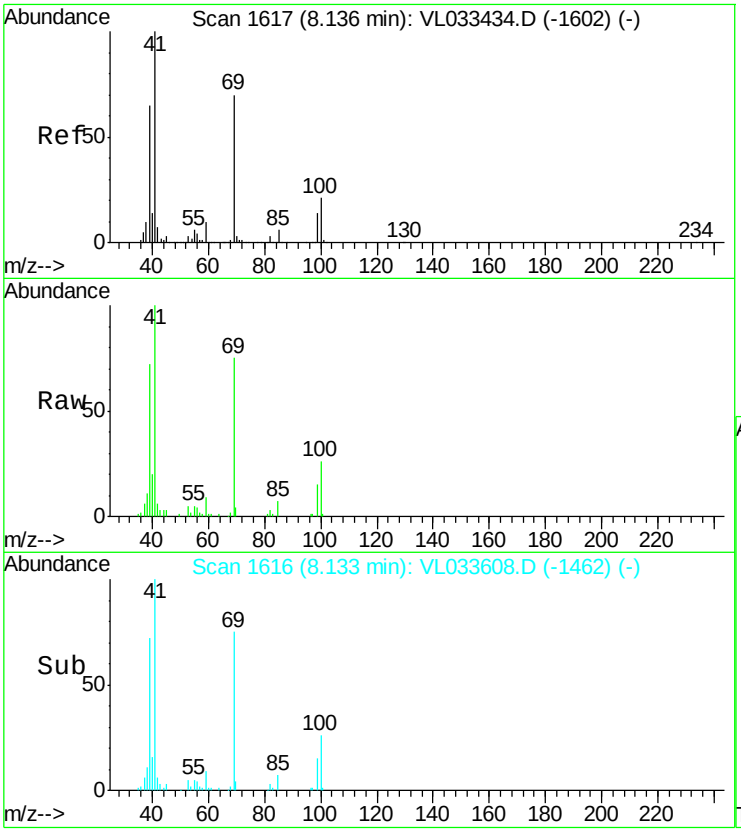


#42
Bromodichloromethane
Concen: 0.909 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 83 Resp: 135463

Ion	Ratio	Lower	Upper
83	100		
85	57.8	50.7	76.1
127	8.1	6.6	9.8



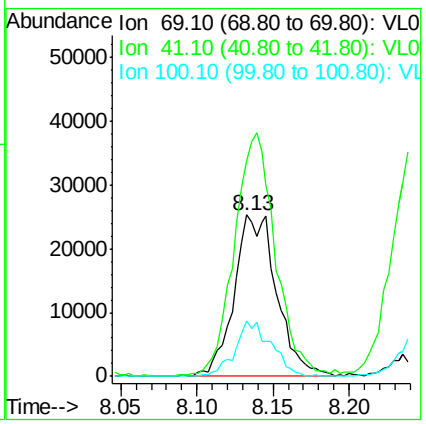


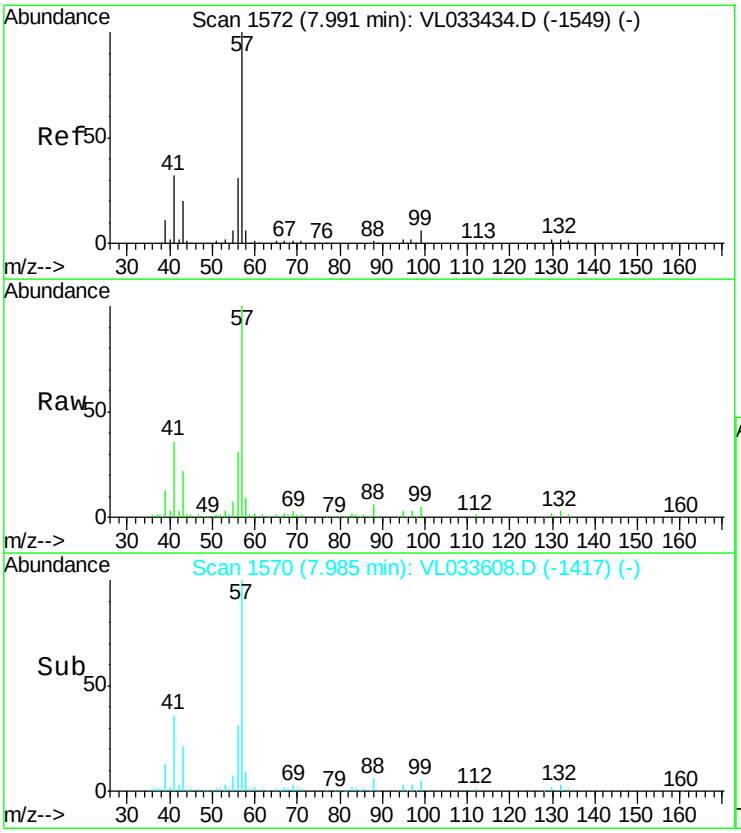
#43
Methyl Methacrylate
Concen: 0.743 ppbv m
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 69 Resp: 49268

Ion	Ratio	Lower	Upper
69	100		
41	0.0	116.6	174.8#
100	29.0	24.4	36.6

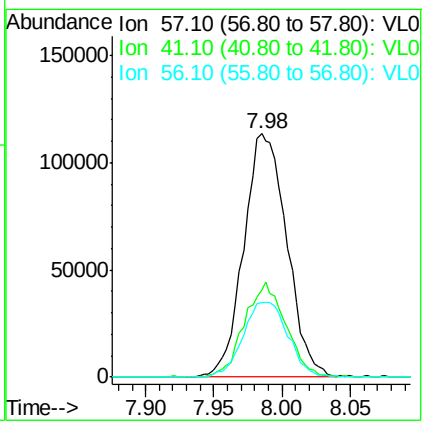


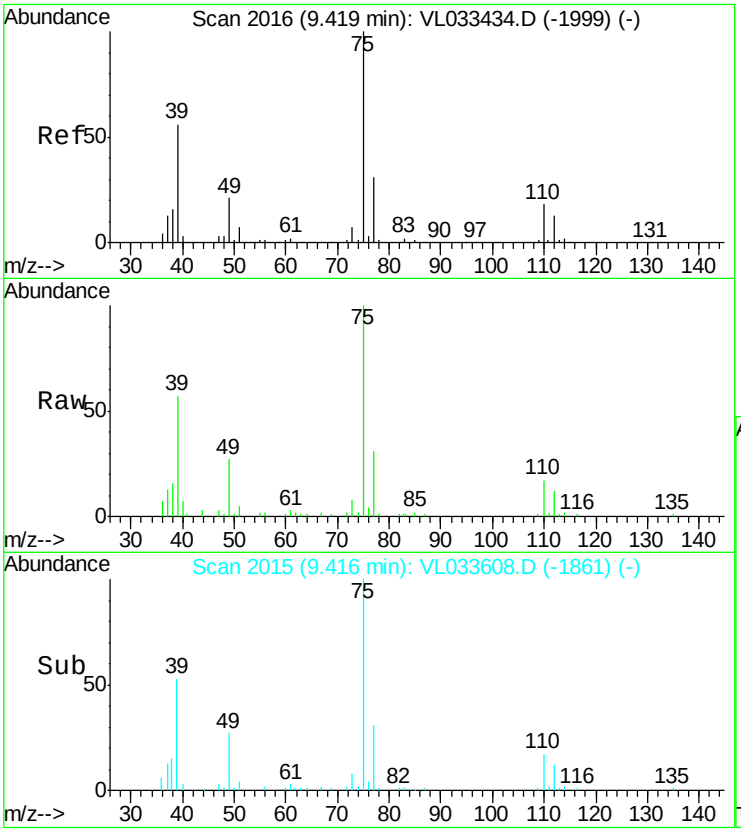


#44
2,2,4-Trimethylpentane
Concen: 0.871 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 57 Resp: 248361

Ion	Ratio	Lower	Upper
57	100		
41	37.8	26.0	39.0
56	32.3	24.6	37.0



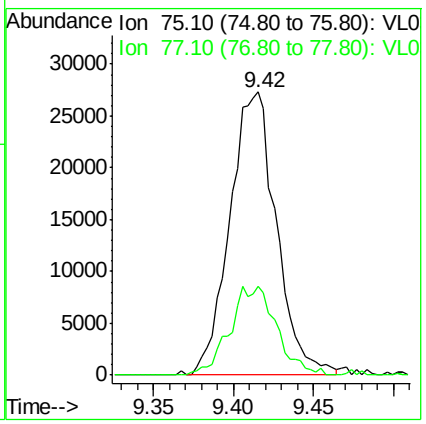


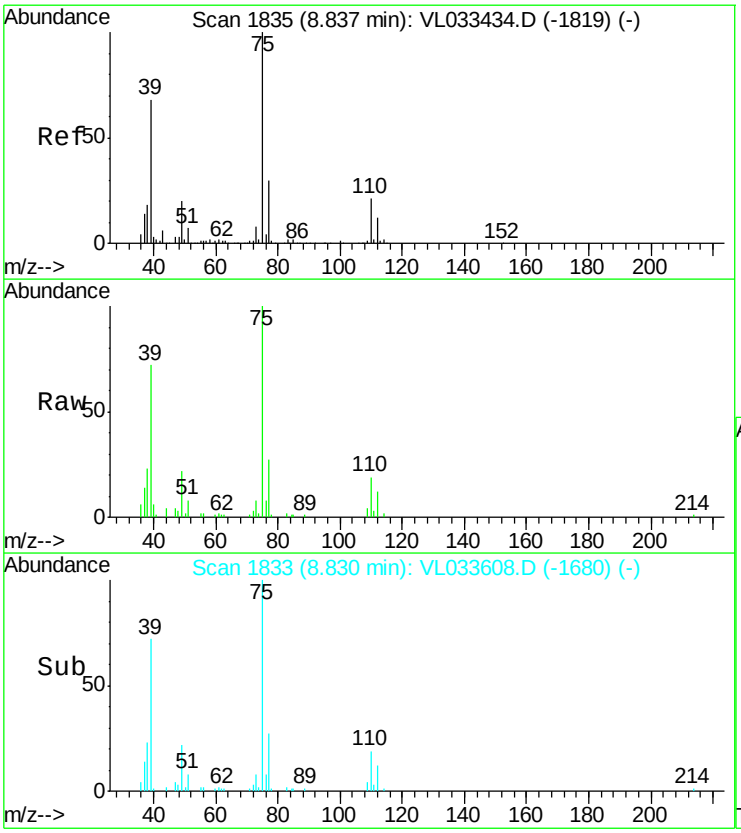
#45
t-1,3-Dichloropropene
Concen: 0.671 ppbv m
RT: 9.42 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 75 Resp: 54571

Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.5	36.7

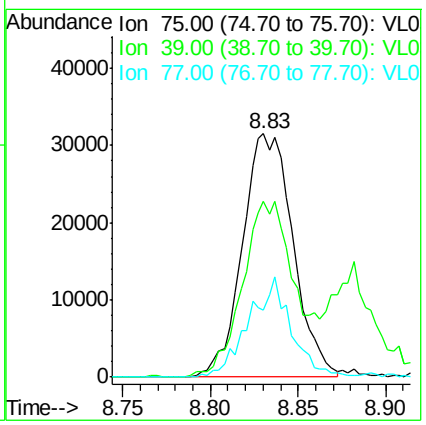


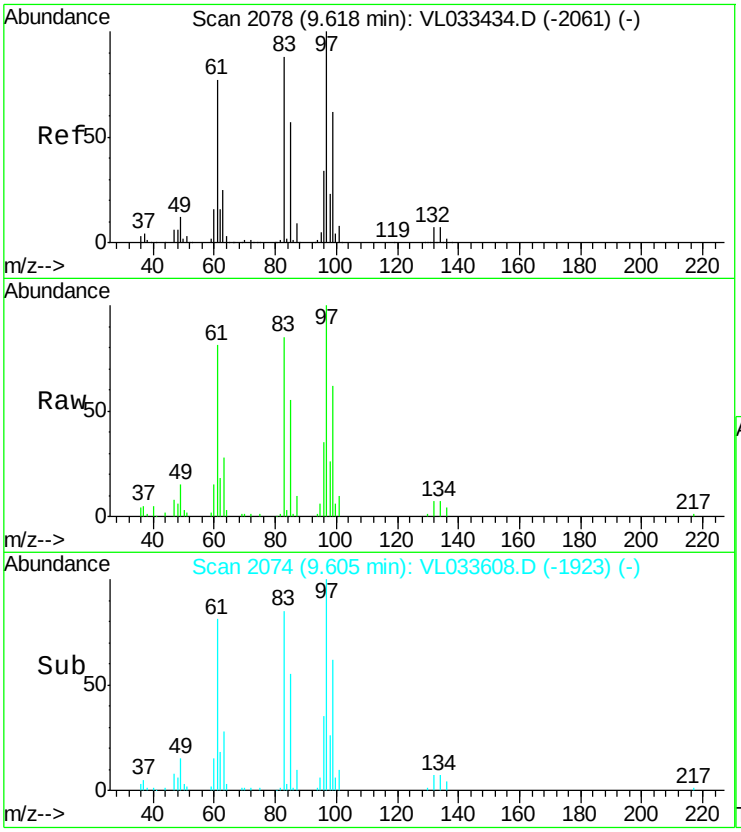


#46
cis-1,3-Dichloropropene
Concen: 0.665 ppbv m
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 75 Resp: 63206

Ion	Ratio	Lower	Upper
75	100		
39	72.3	54.1	81.1
77	27.5	23.9	35.9



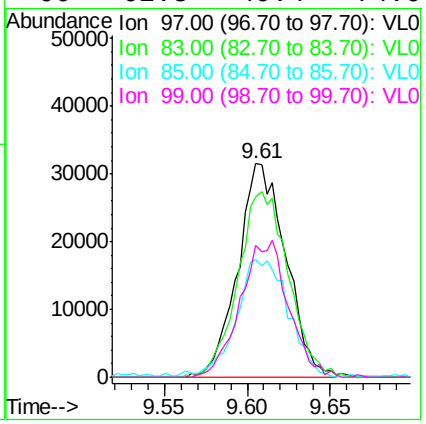


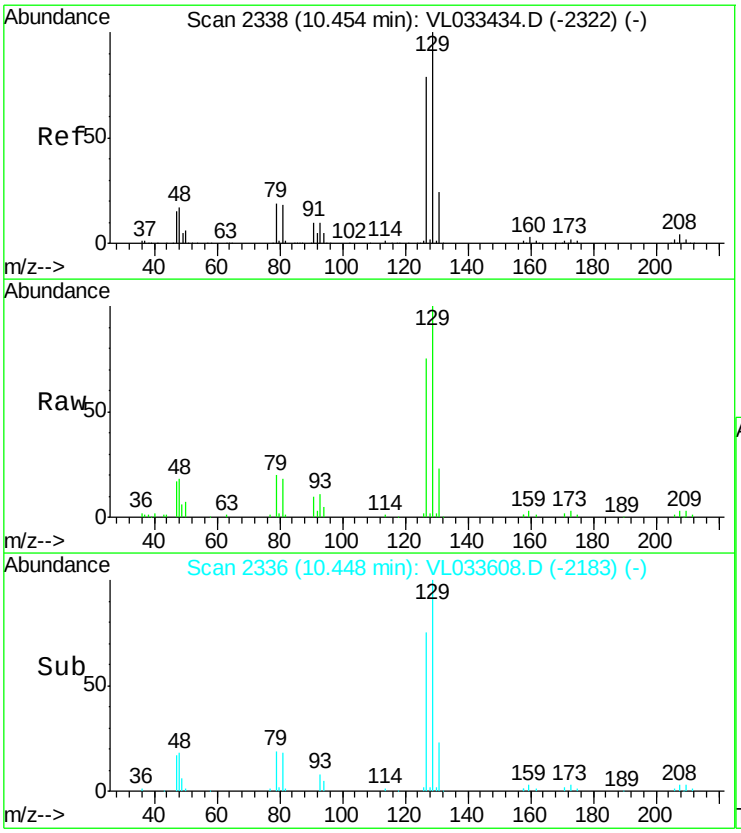
#47
1,1,2-Trichloroethane
Concen: 0.872 ppbv
RT: 9.61 min Scan# 2074
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 97 Resp: 63273

Ion	Ratio	Lower	Upper
97	100		
83	84.2	70.5	105.7
85	55.3	45.6	68.4
99	62.3	49.4	74.0

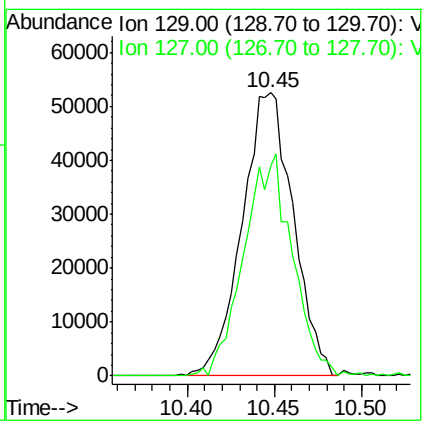


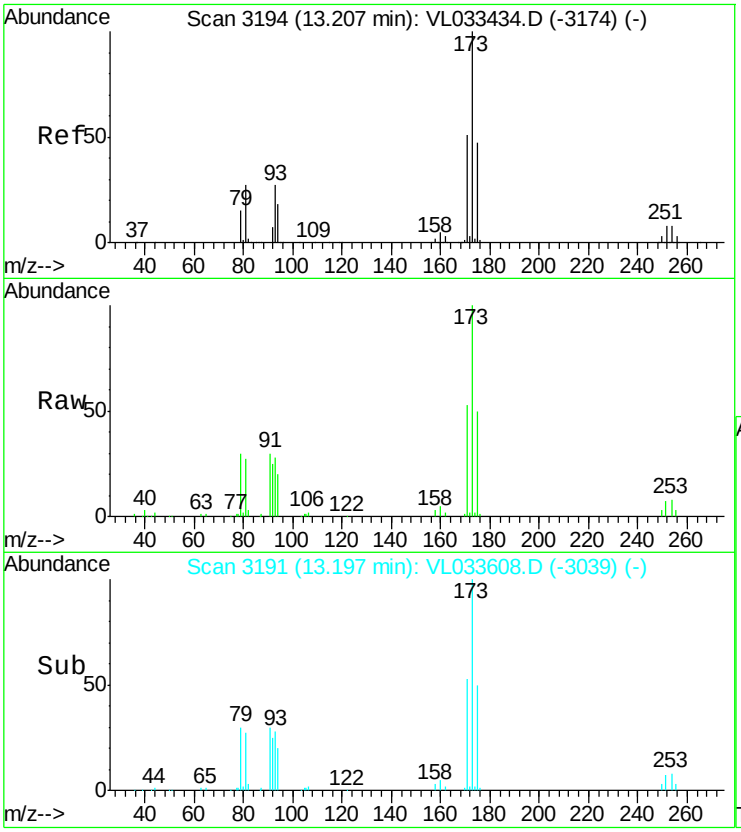


#48
Dibromochloromethane
Concen: 0.876 ppbv m
RT: 10.45 min Scan# 2336
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:129 Resp: 107333

Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.1	117.2#



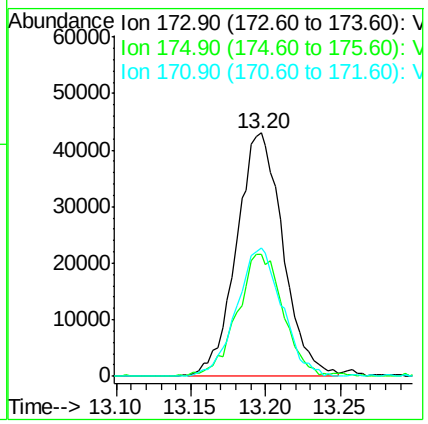


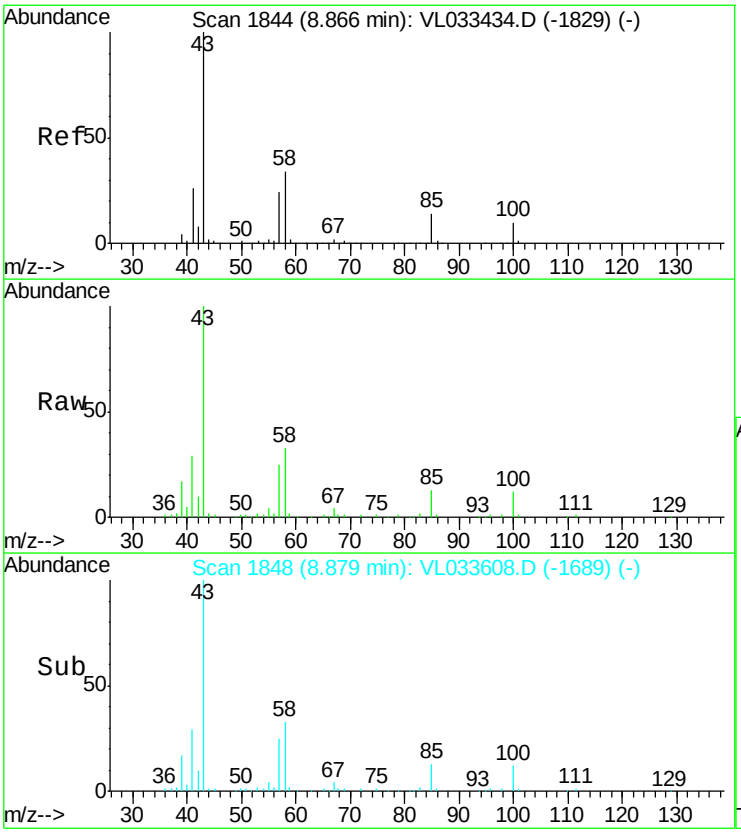
#49
Bromoform
Concen: 0.795 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:173 Resp: 92975

Ion	Ratio	Lower	Upper
173	100		
175	49.9	39.3	58.9
171	51.6	41.2	61.8

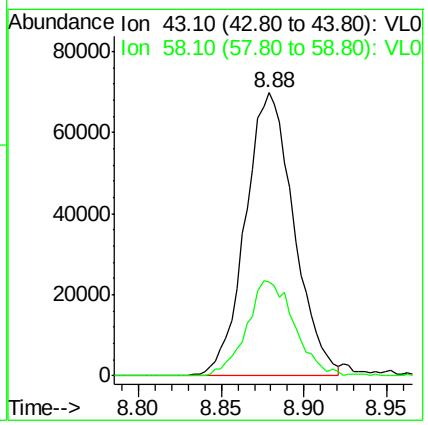


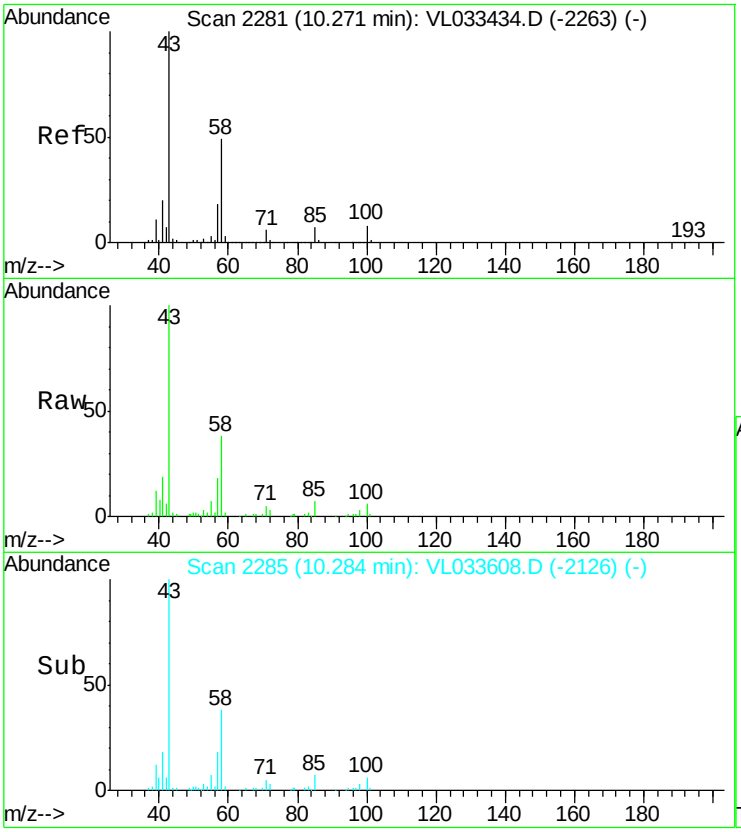


#50
4-Methyl-2-Pentanone
Concen: 0.830 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 43 Resp: 142027

Ion	Ratio	Lower	Upper
43	100		
58	33.1	28.0	42.0



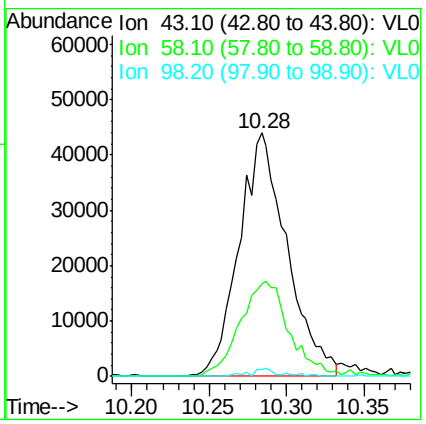


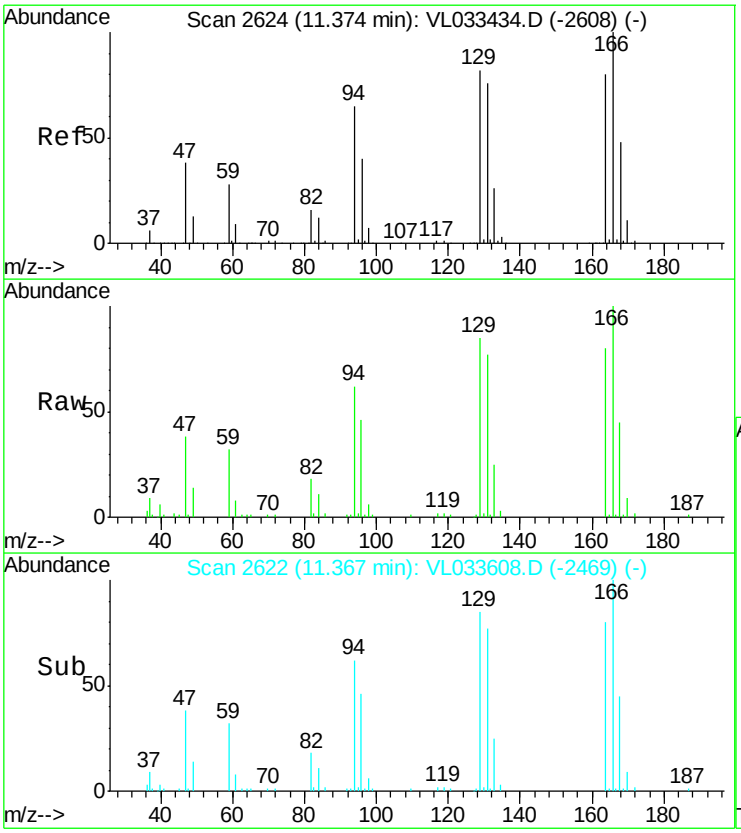
#51
2-Hexanone
Concen: 0.743 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Tgt Ion: 43 Resp: 94828

Ion	Ratio	Lower	Upper
43	100		
58	41.3	38.2	57.2
98	2.0	0.2	0.2#

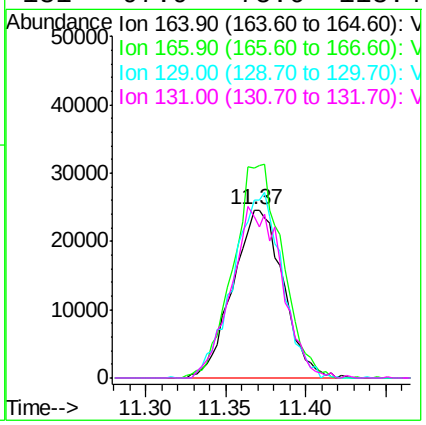


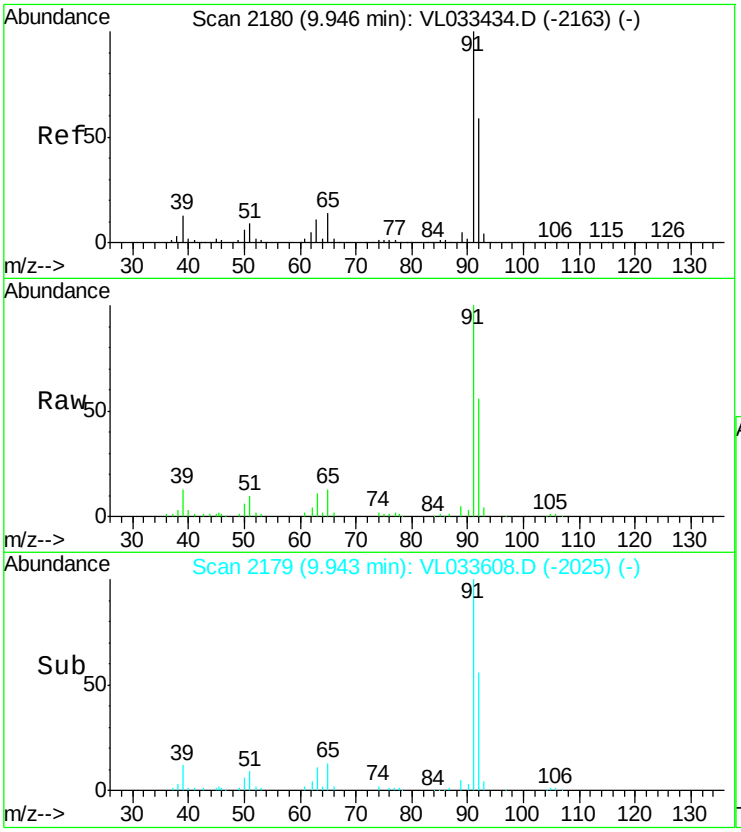


#52
Tetrachloroethene
Concen: 0.855 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:164 Resp: 52681

Ion	Ratio	Lower	Upper
164	100		
166	127.1	99.5	149.3
129	108.7	81.4	122.2
131	97.9	75.6	113.4



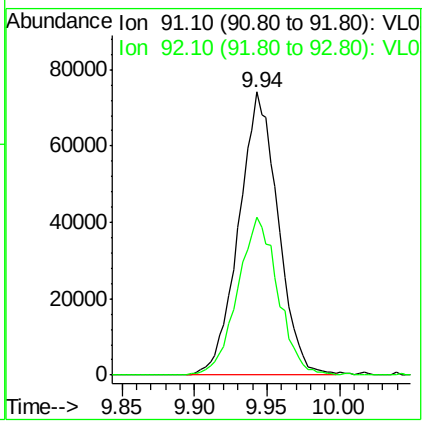


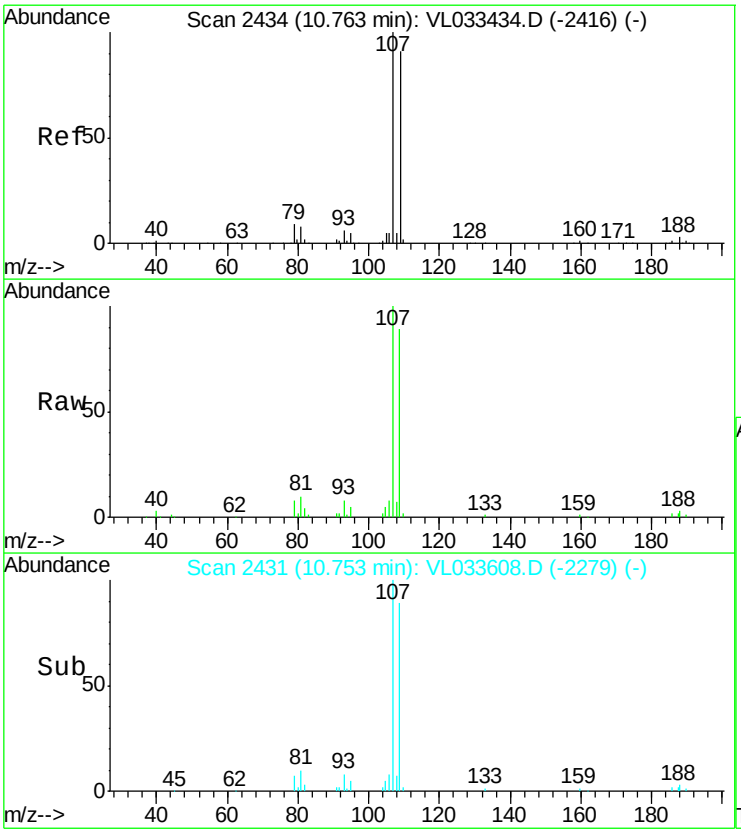
#53
Toluene
Concen: 0.737 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 91 Resp: 139857

Ion	Ratio	Lower	Upper
91	100		
92	57.3	47.4	71.0

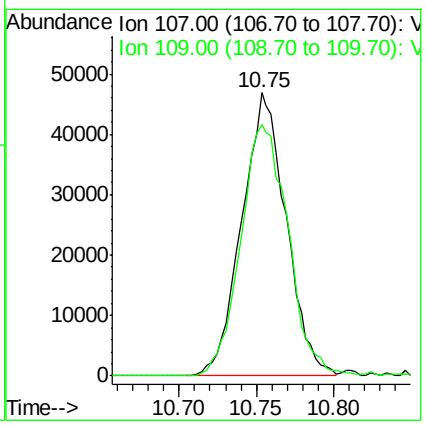


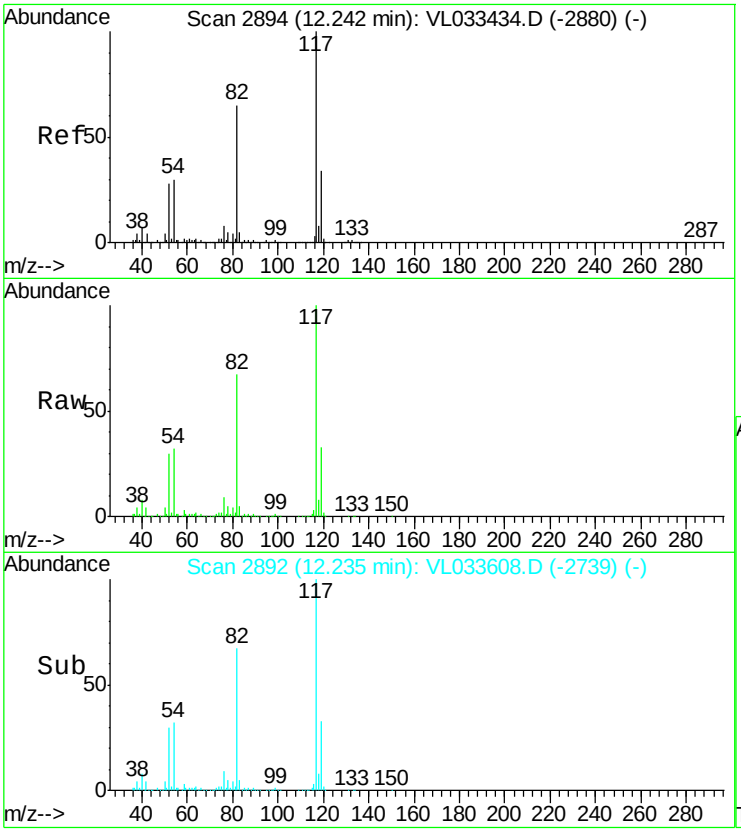


#54
1,2-Dibromoethane
Concen: 0.822 ppbv
RT: 10.75 min Scan# 2431
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:107 Resp: 93327

Ion	Ratio	Lower	Upper
107	100		
109	89.0	72.7	109.1



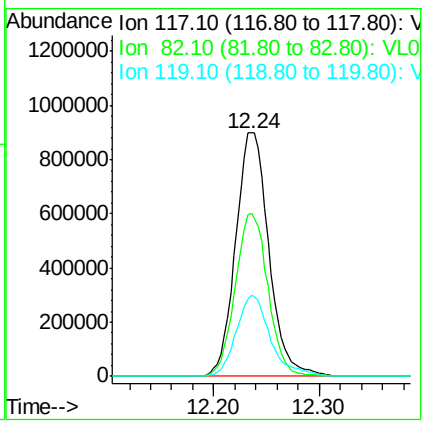


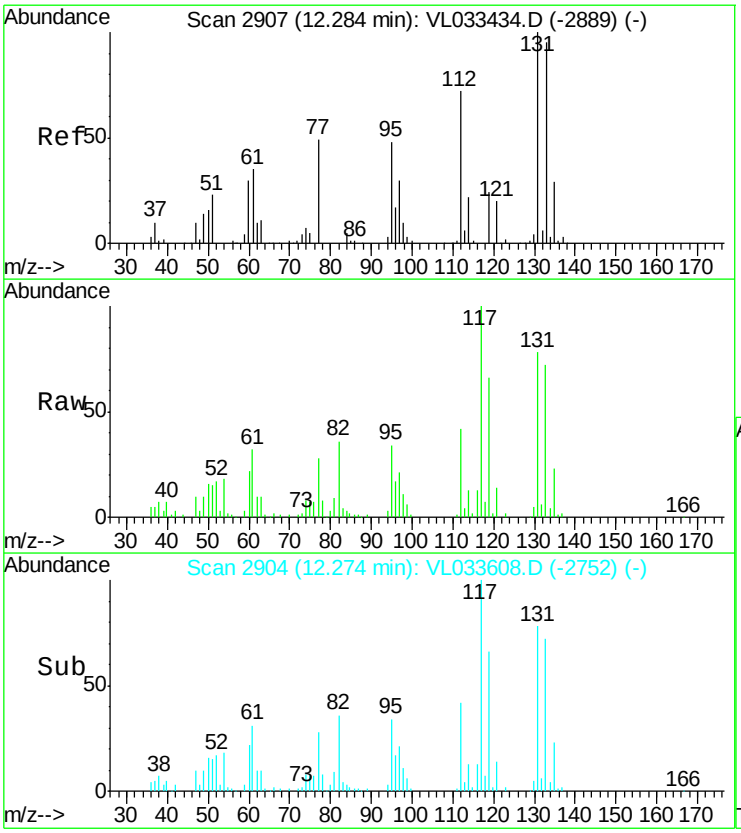
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Tgt Ion:117 Resp: 1972972

Ion	Ratio	Lower	Upper
117	100		
82	66.0	51.5	77.3
119	34.1	25.5	38.3

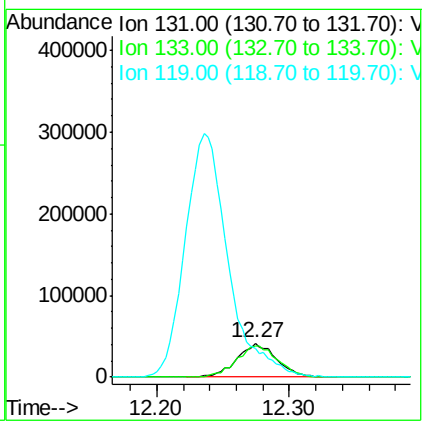


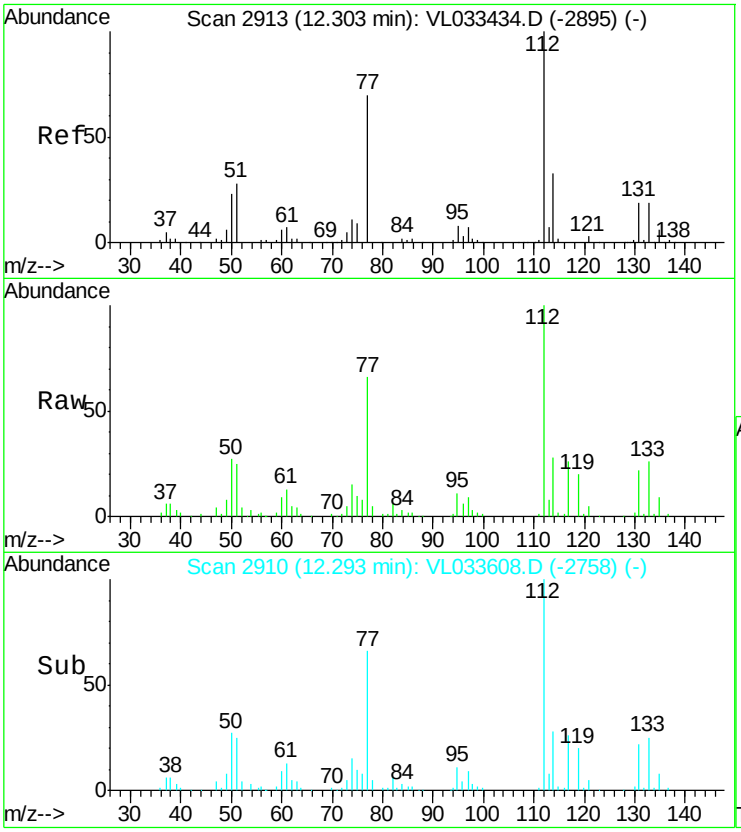


#56
1,1,1,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:131 Resp: 85276

Ion	Ratio	Lower	Upper
131	100		
133	98.1	76.2	114.4
119	789.2	45.0	67.6#



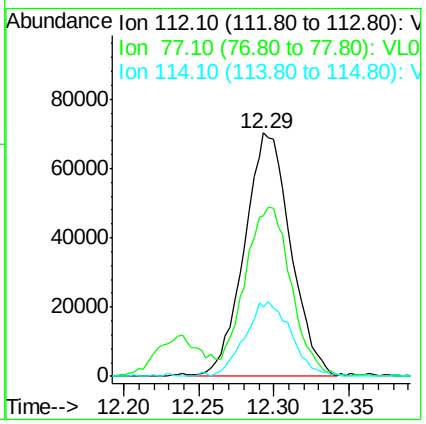


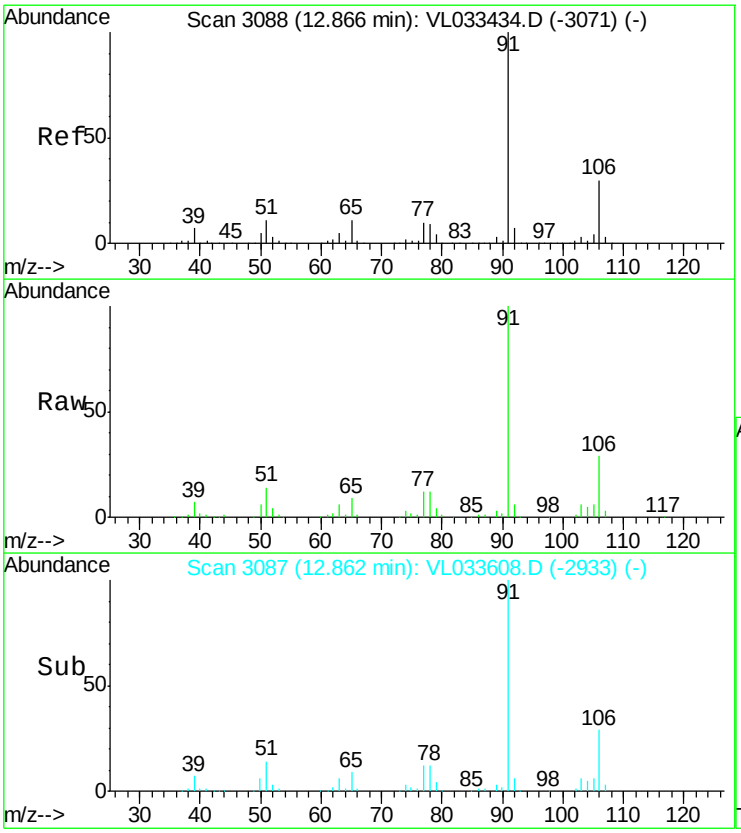
#57
Chlorobenzene
Concen: 0.987 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:112 Resp: 151214

Ion	Ratio	Lower	Upper
112	100		
77	65.3	57.3	85.9
114	28.4	29.8	36.4#

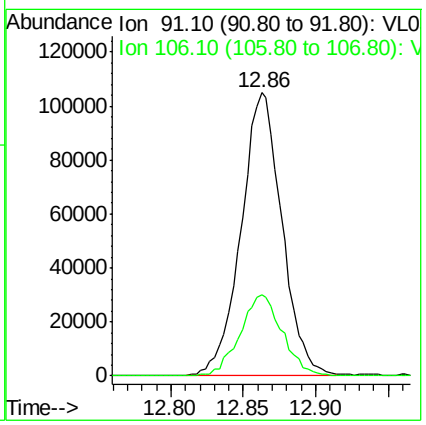


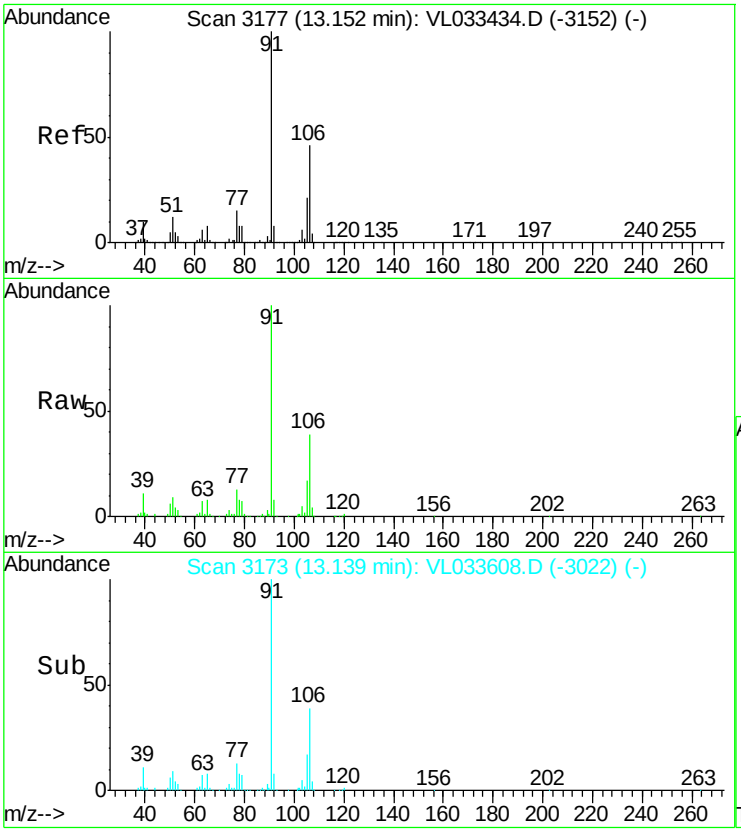


#58
Ethyl Benzene
Concen: 0.782 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 91 Resp: 206117

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.8	35.6



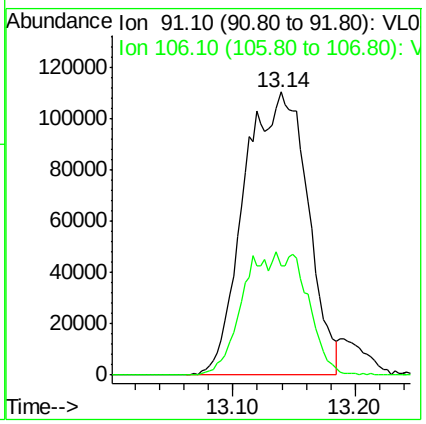


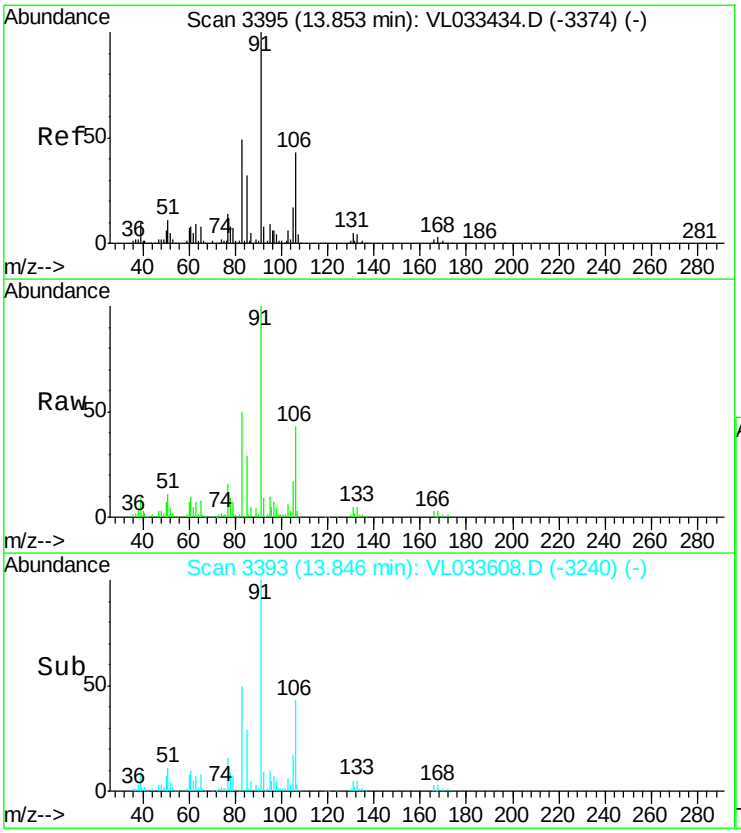
#59
m/p-Xylene
Concen: 1.687 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 91 Resp: 397086

Ion	Ratio	Lower	Upper
91	100		
106	43.8	0.0	0.0#

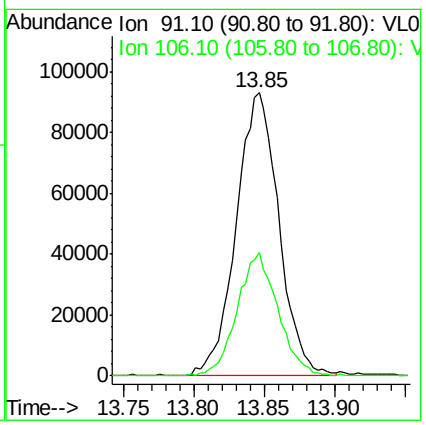


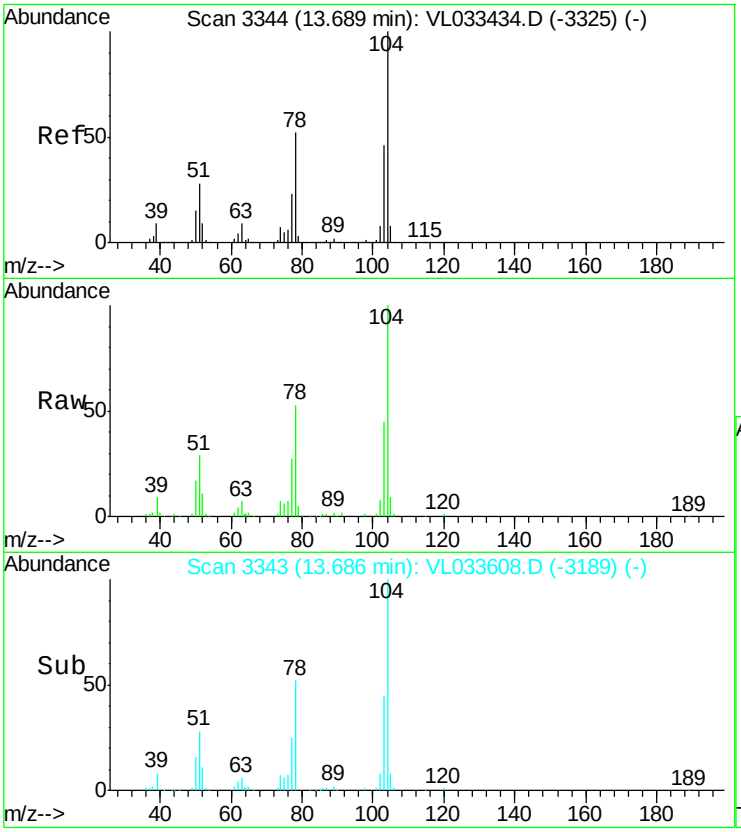


#60
o-Xylene
Concen: 0.867 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 91 Resp: 197375

Ion	Ratio	Lower	Upper
91	100		
106	41.6	21.4	64.3



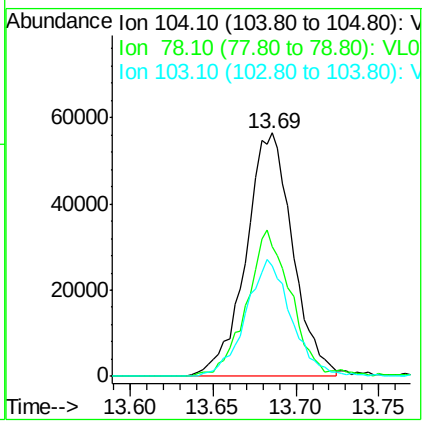


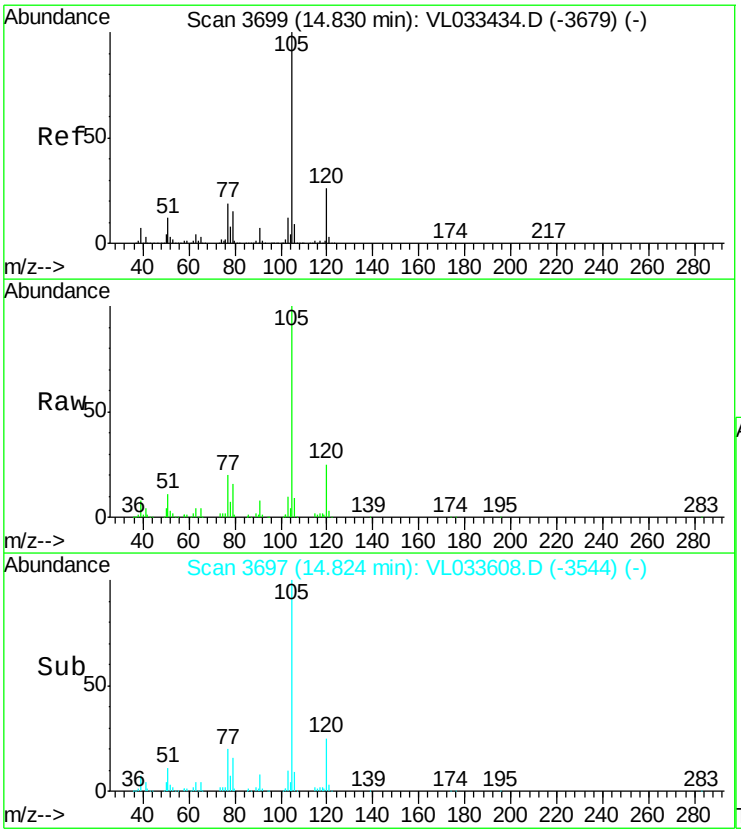
#61
Stvrene
Concen: 0.707 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:104 Resp: 110450

Ion	Ratio	Lower	Upper
104	100		
78	57.8	43.2	64.8
103	47.1	37.8	56.8

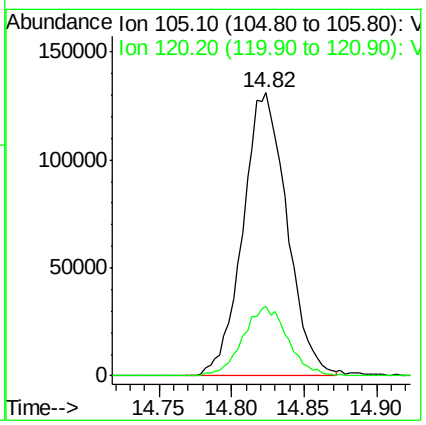


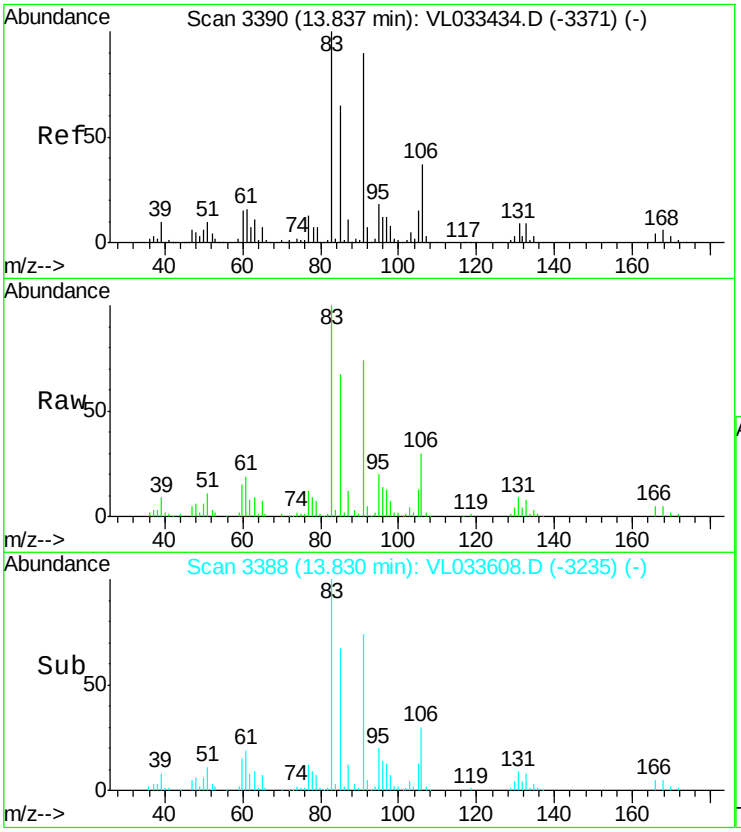


#62
Isopropylbenzene
Concen: 0.857 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:105 Resp: 276243

Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.2	30.2



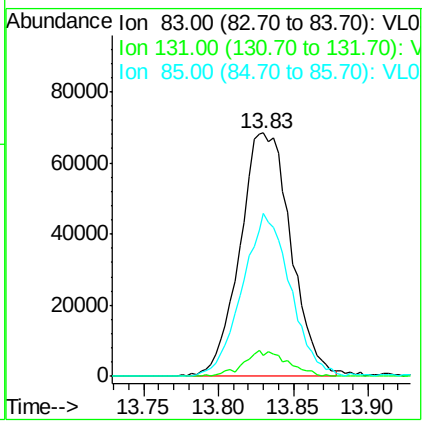


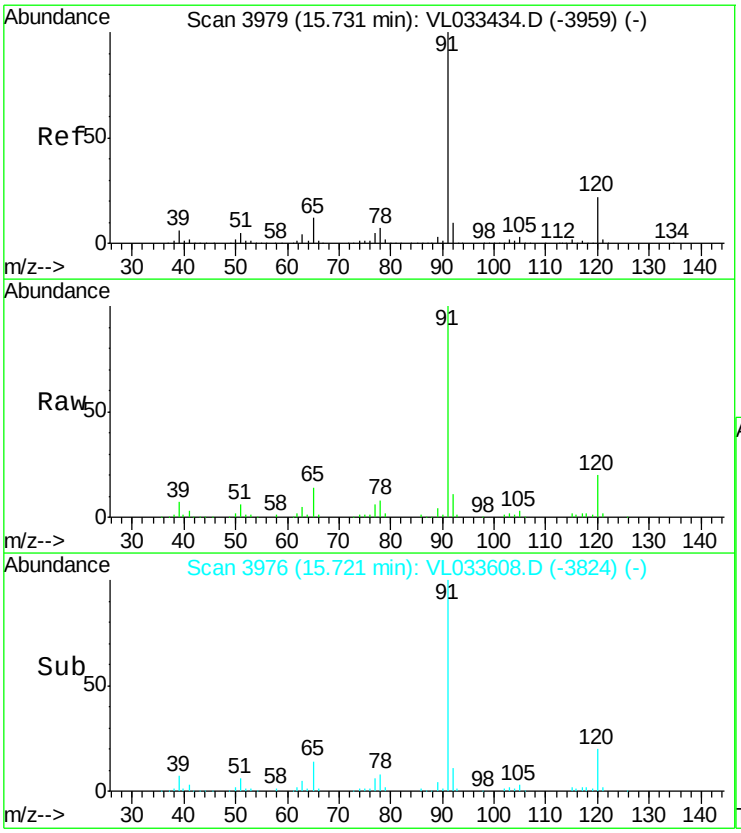
#63
1,1,2,2-Tetrachloroethane
Concen: 0.967 ppbv
RT: 13.83 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 83 Resp: 162073

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	63.9	32.7	98.1

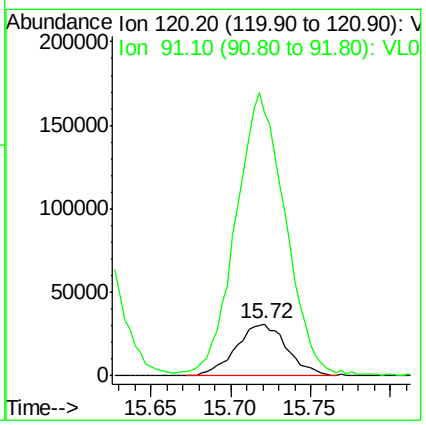


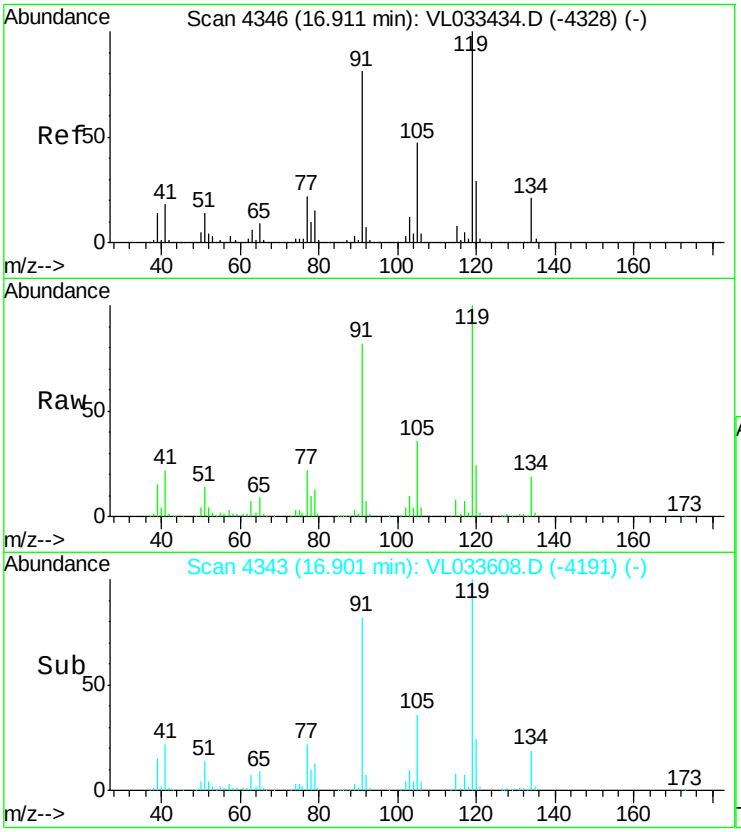


#64
n-propylbenzene
Concen: 0.836 ppbv
RT: 15.72 min Scan# 3976
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:120 Resp: 68376

Ion	Ratio	Lower	Upper
120	100		
91	532.3	387.4	581.2



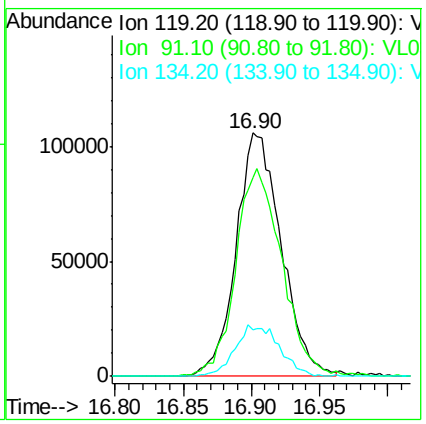


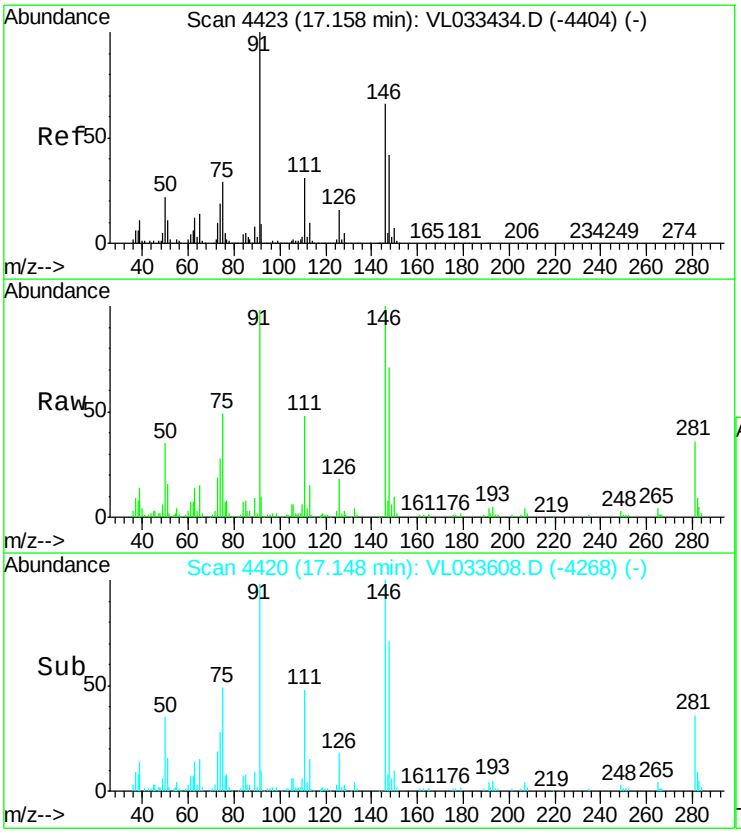
#65
tert-Butylbenzene
Concen: 0.856 ppbv
RT: 16.90 min Scan# 4343
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT2-2019

Tgt Ion:119 Resp: 243099

Ion	Ratio	Lower	Upper
119	100		
91	87.8	66.4	99.6
134	20.6	15.5	23.3

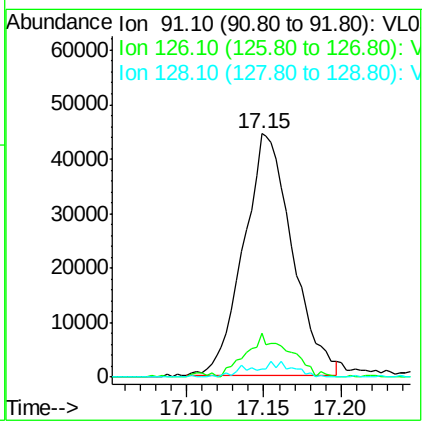


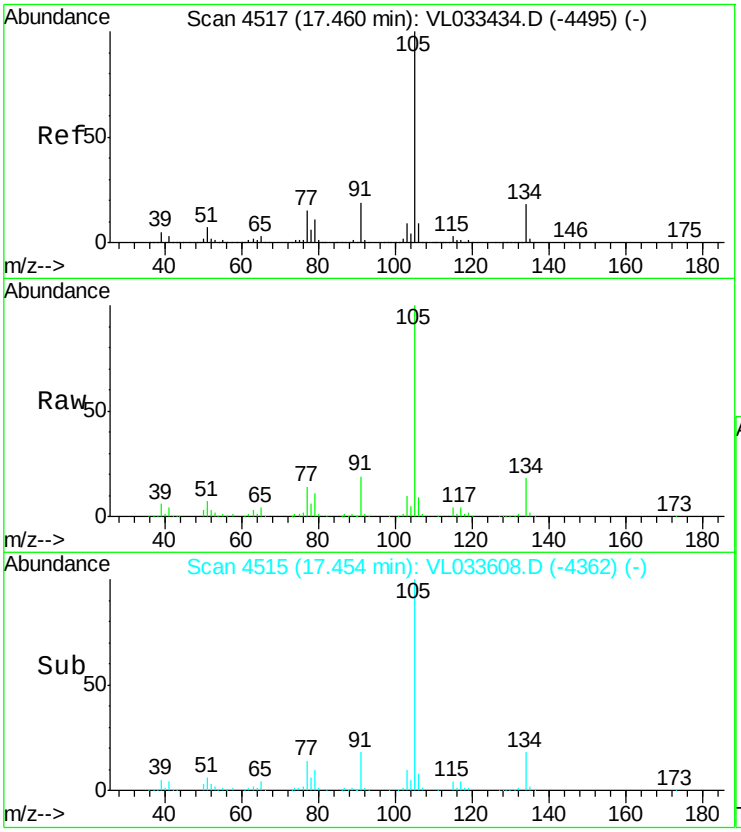


#66
Benzyl Chloride
Concen: 0.740 ppbv
RT: 17.15 min Scan# 4420
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 91 Resp: 97656

Ion	Ratio	Lower	Upper
91	100		
126	16.8	13.0	19.6
128	5.6	4.2	6.2



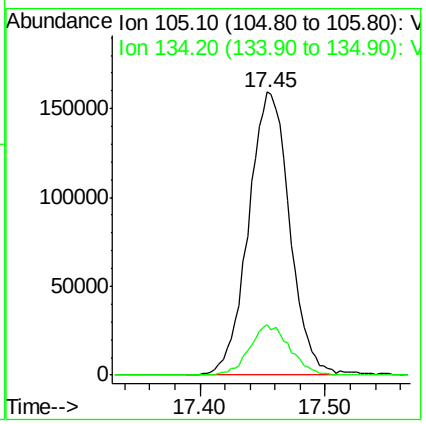


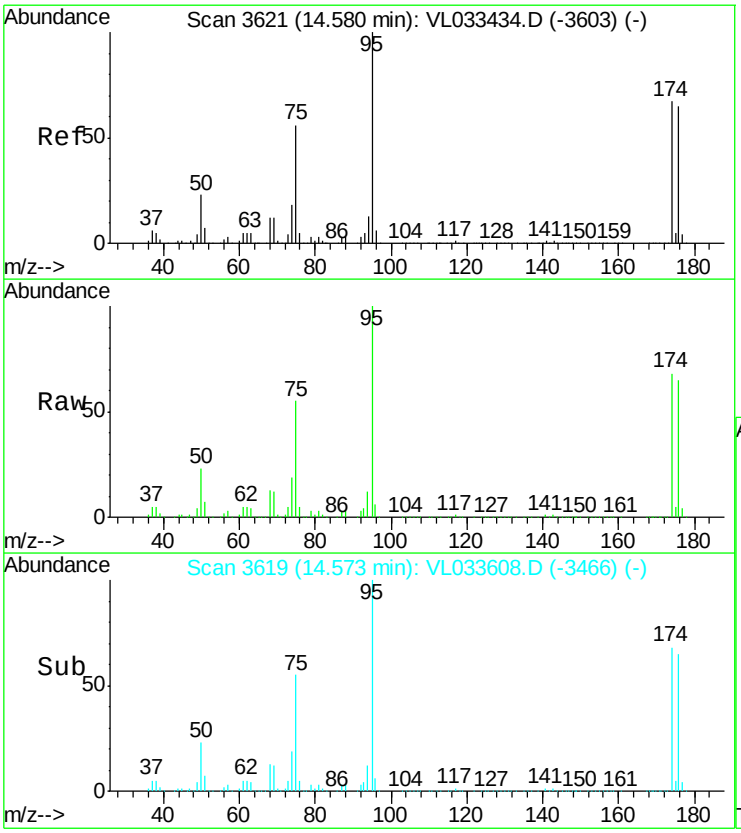
#67
sec-Butylbenzene
Concen: 0.899 ppbv
RT: 17.45 min Scan# 4515
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:105 Resp: 362911

Ion	Ratio	Lower	Upper
105	100		
134	17.4	14.6	21.8

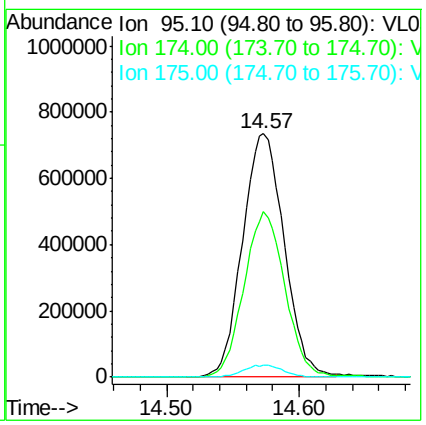


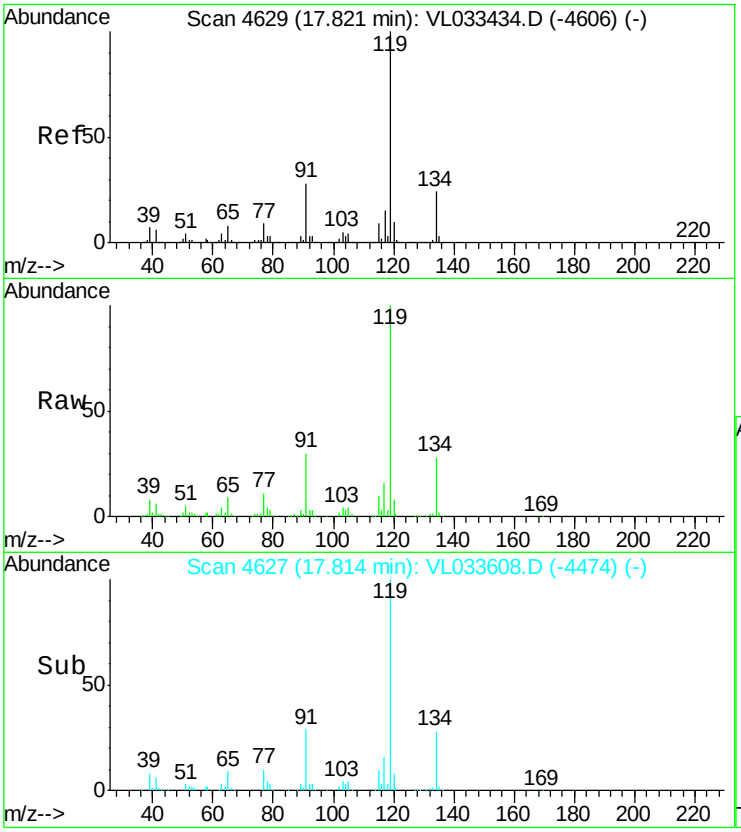


#68
1-Bromo-4-Fluorobenzene
Concen: 10.366 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 95 Resp: 1603323

Ion	Ratio	Lower	Upper
95	100		
174	67.3	52.9	79.3
175	4.7	3.8	5.6



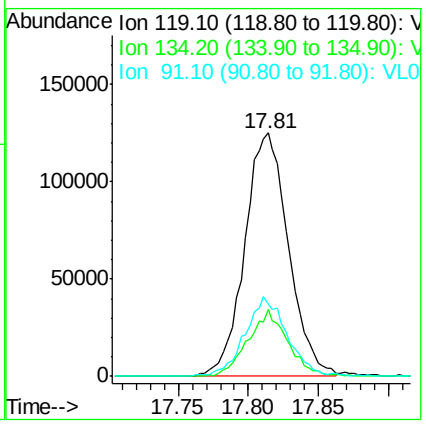


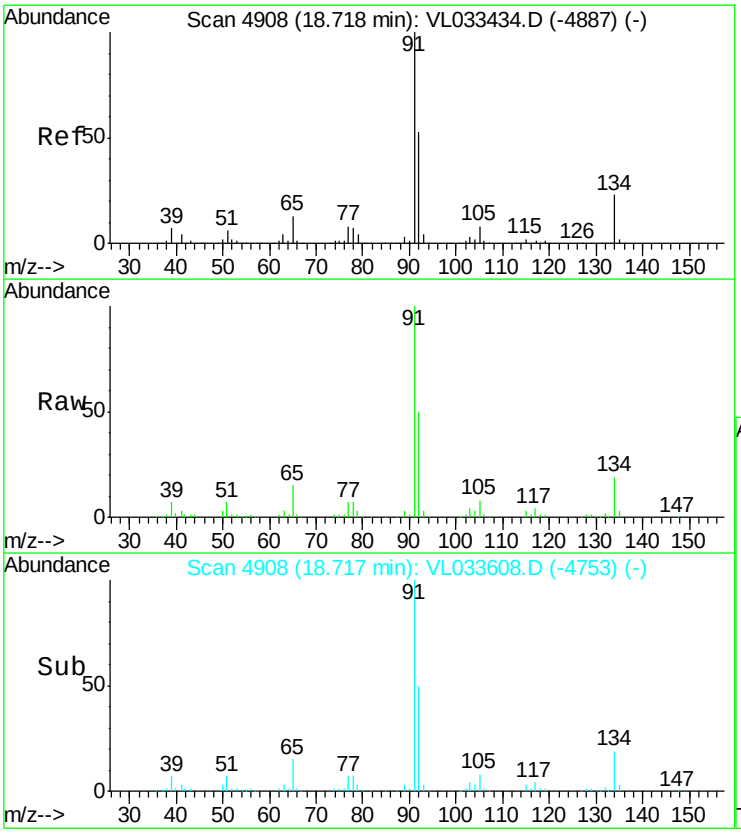
#69
p-Isopropyltoluene
Concen: 0.824 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:119 Resp: 271069

Ion	Ratio	Lower	Upper
119	100		
134	24.8	19.9	29.9
91	32.0	23.4	35.0

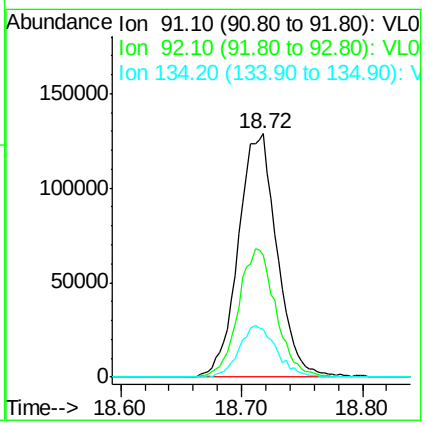


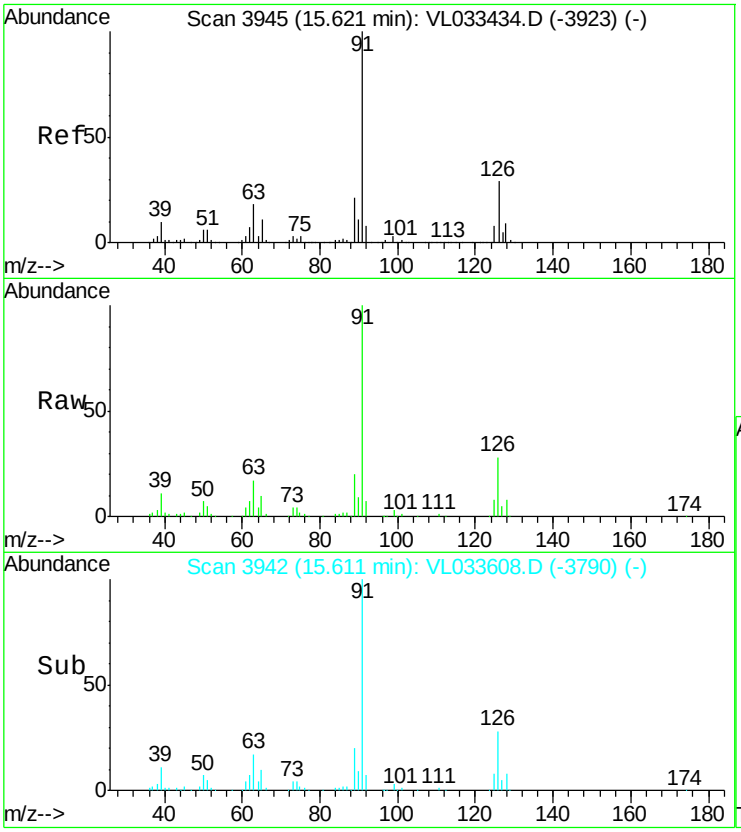


#70
n-Butylbenzene
Concen: 0.807 ppbv m
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion: 91 Resp: 281242

Ion	Ratio	Lower	Upper
91	100		
92	51.4	42.6	64.0
134	20.4	17.5	26.3



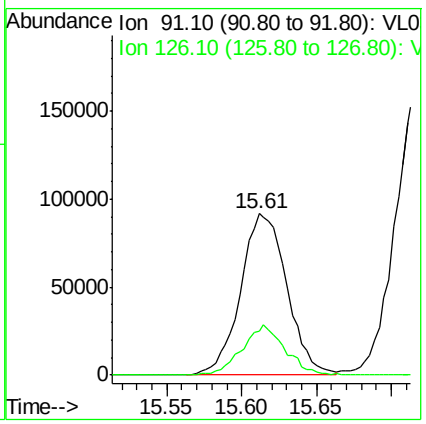


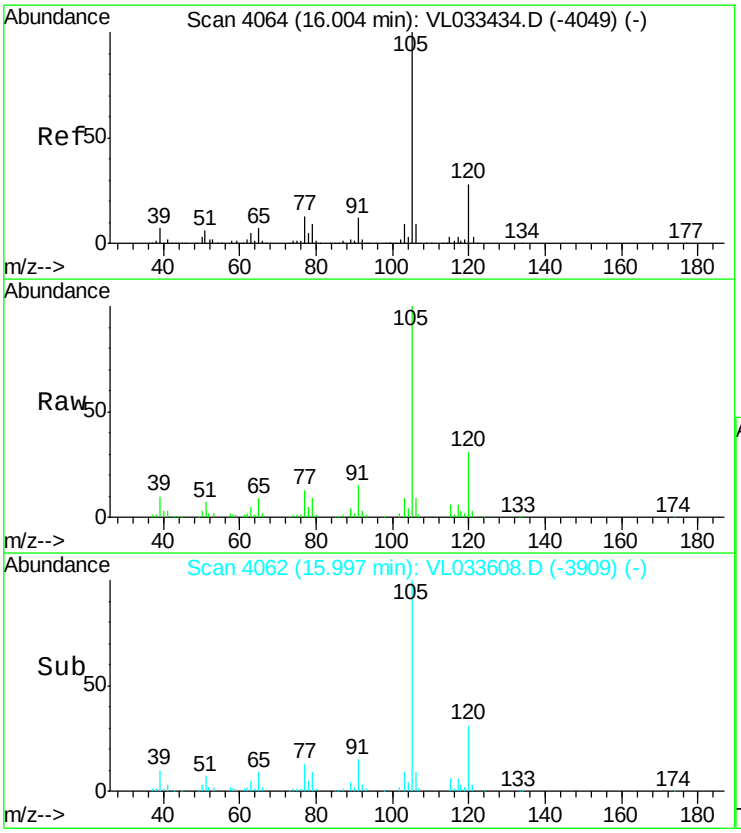
#71
2-Chlorotoluene
Concen: 0.801 ppbv
RT: 15.61 min Scan# 3942
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion: 91 Resp: 196276

Ion	Ratio	Lower	Upper
91	100		
126	29.1	11.7	46.9

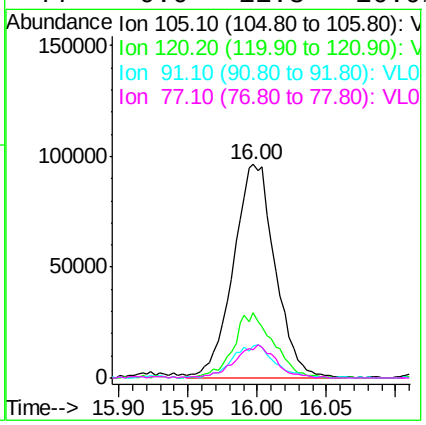


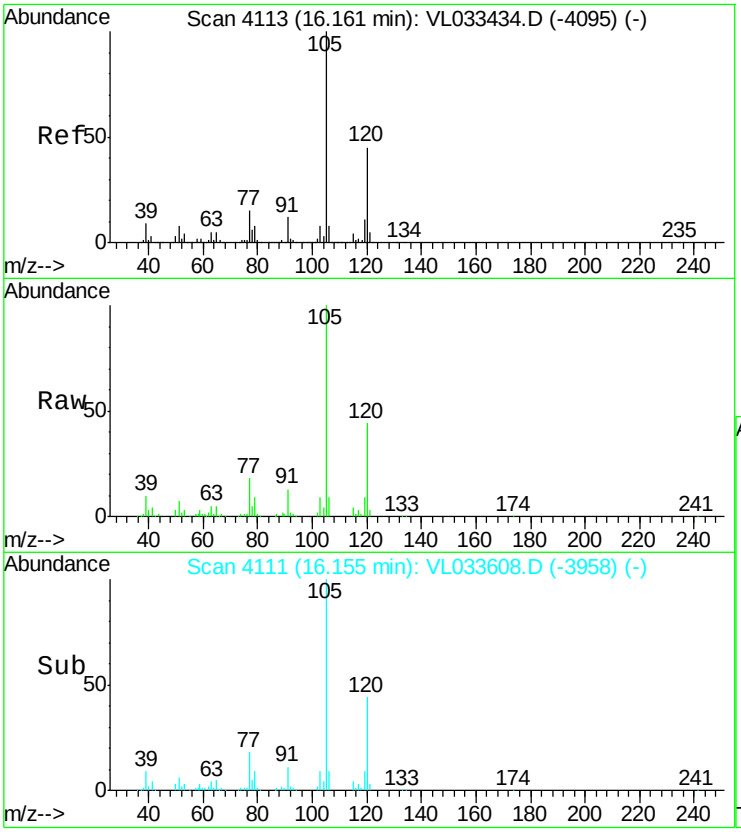


#72
4-Ethyltoluene
Concen: 0.795 ppbv m
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:105 Resp: 203347

Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.2	34.8
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



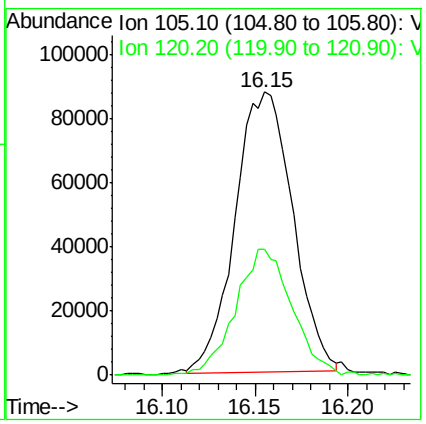


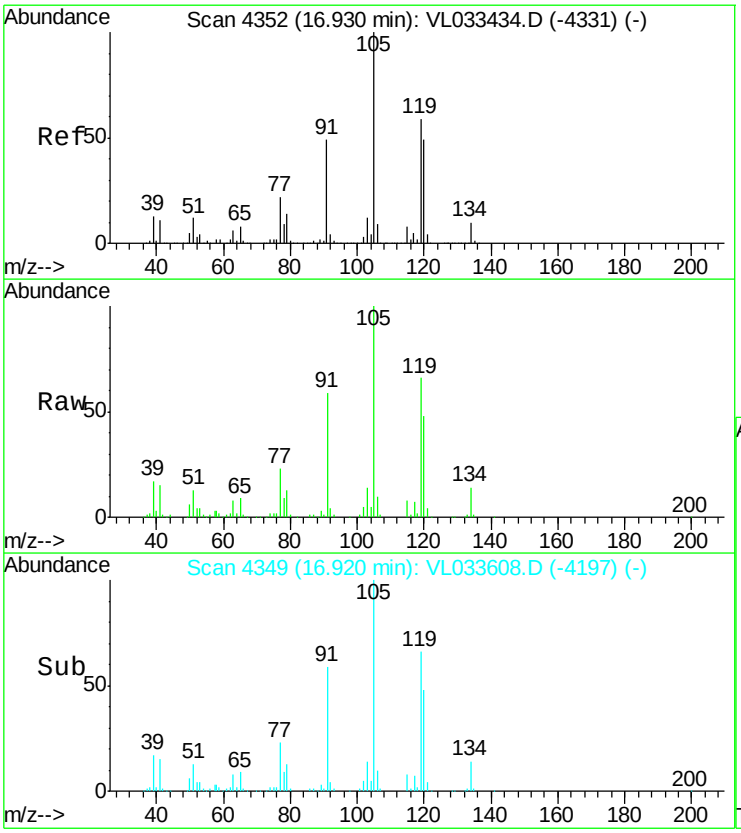
#73
1,3,5-Trimethylbenzene
Concen: 0.770 ppbv
RT: 16.15 min Scan# 4111
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:105 Resp: 188492

Ion	Ratio	Lower	Upper
105	100		
120	44.3	35.7	53.5

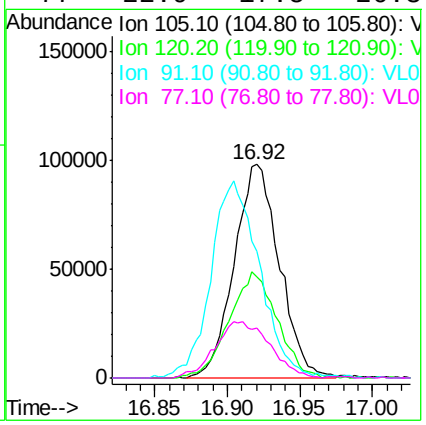


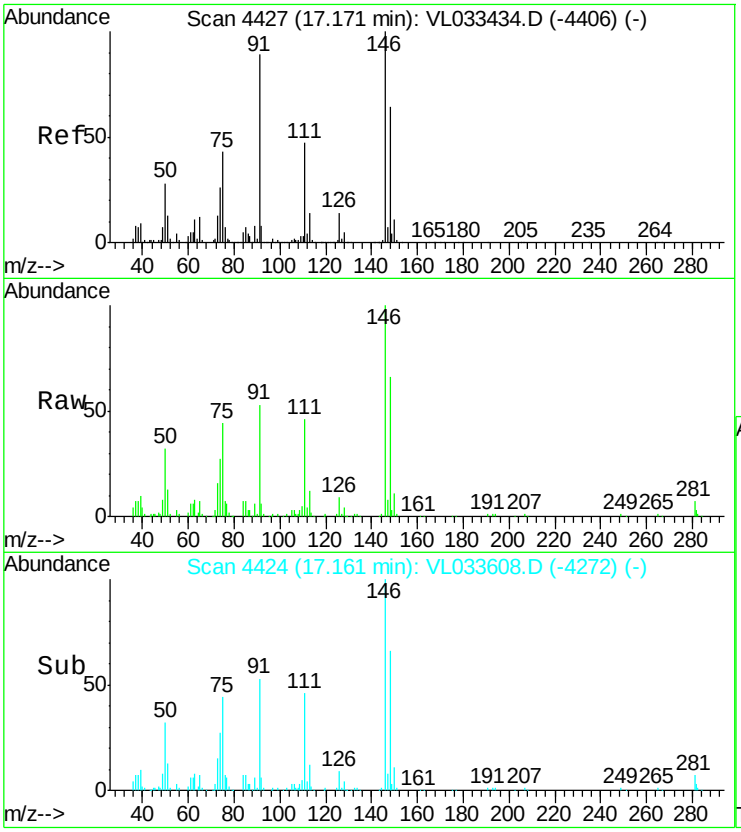


#74
1,2,4-Trimethylbenzene
Concen: 0.811 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:105 Resp: 212832

Ion	Ratio	Lower	Upper
105	100		
120	46.8	39.0	58.6
91	58.2	40.0	60.0
77	22.9	17.5	26.3



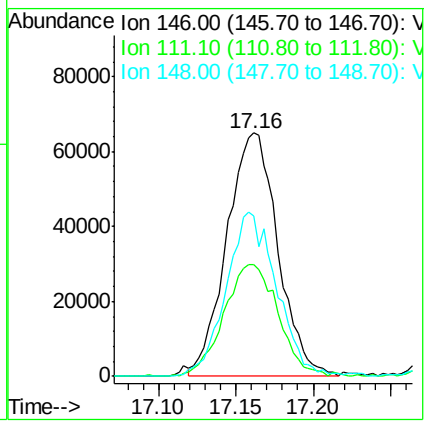


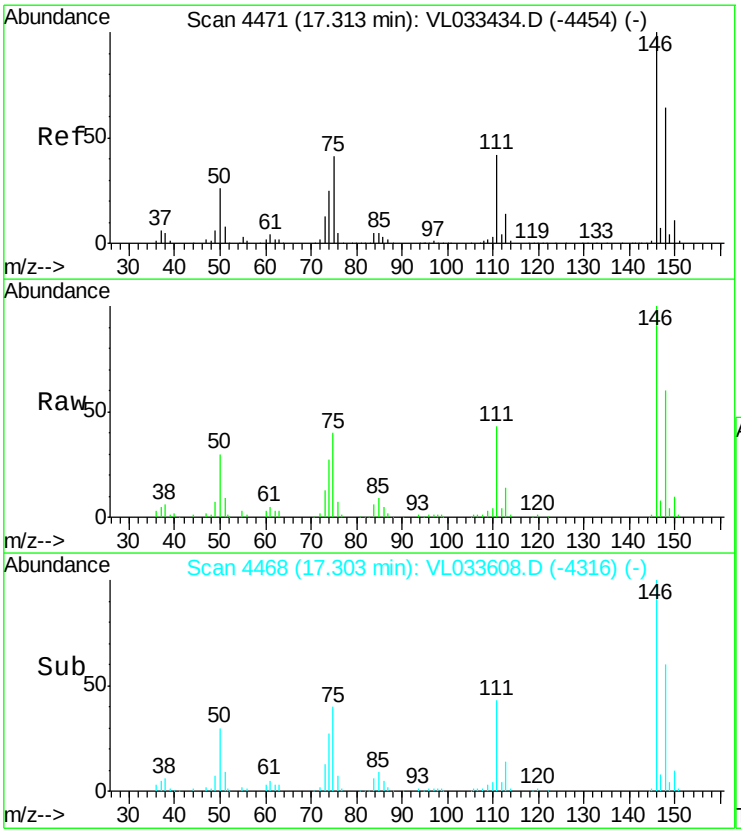
#75
1,3-Dichlorobenzene
Concen: 0.920 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:146 Resp: 149275

Ion	Ratio	Lower	Upper
146	100		
111	49.0	22.9	68.8
148	66.9	32.0	96.2

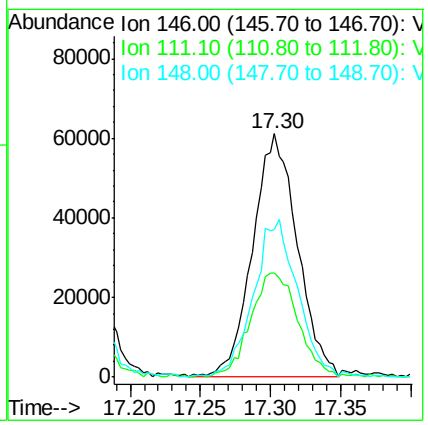


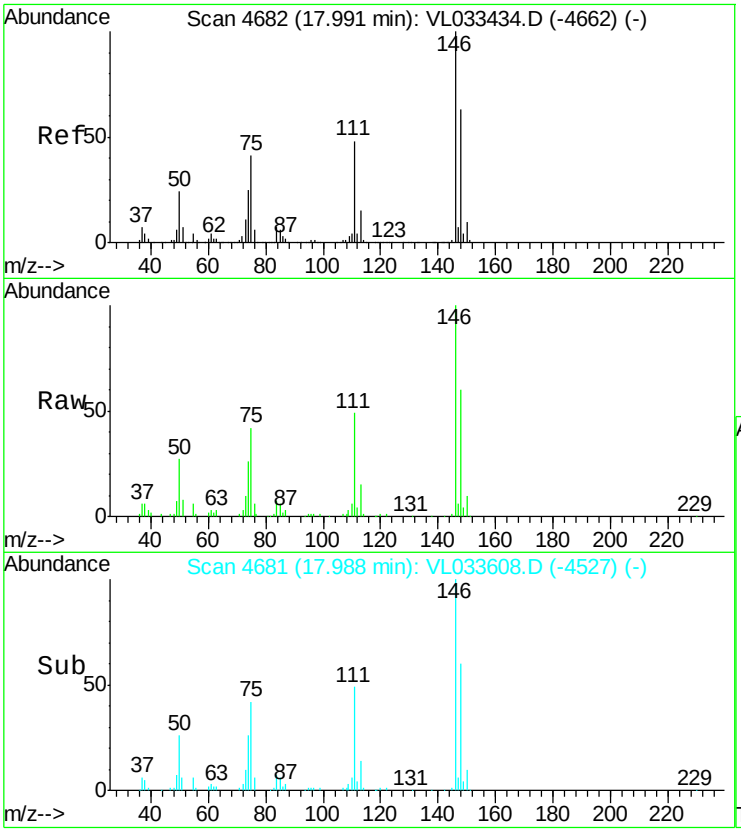


#76
1,4-Dichlorobenzene
Concen: 0.857 ppbv
RT: 17.30 min Scan# 4468
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:146 Resp: 135368

Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.7	65.1
148	64.3	32.0	96.2



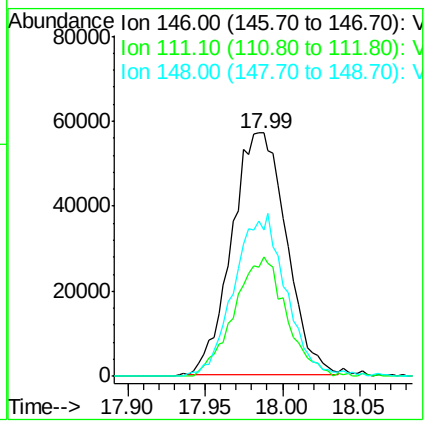


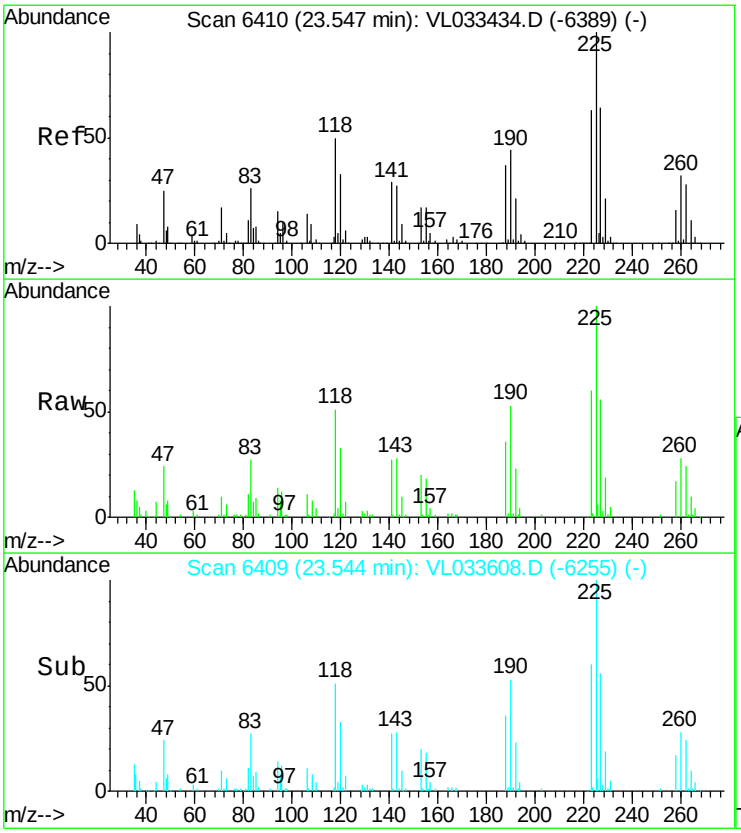
#77
1,2-Dichlorobenzene
Concen: 0.907 ppbv
RT: 17.99 min Scan# 4681
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:146 Resp: 139560

Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.5	70.5
148	63.9	32.0	96.0

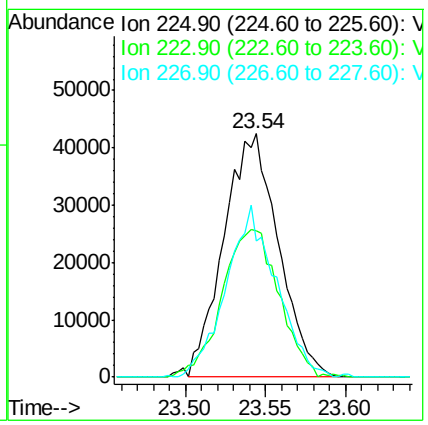


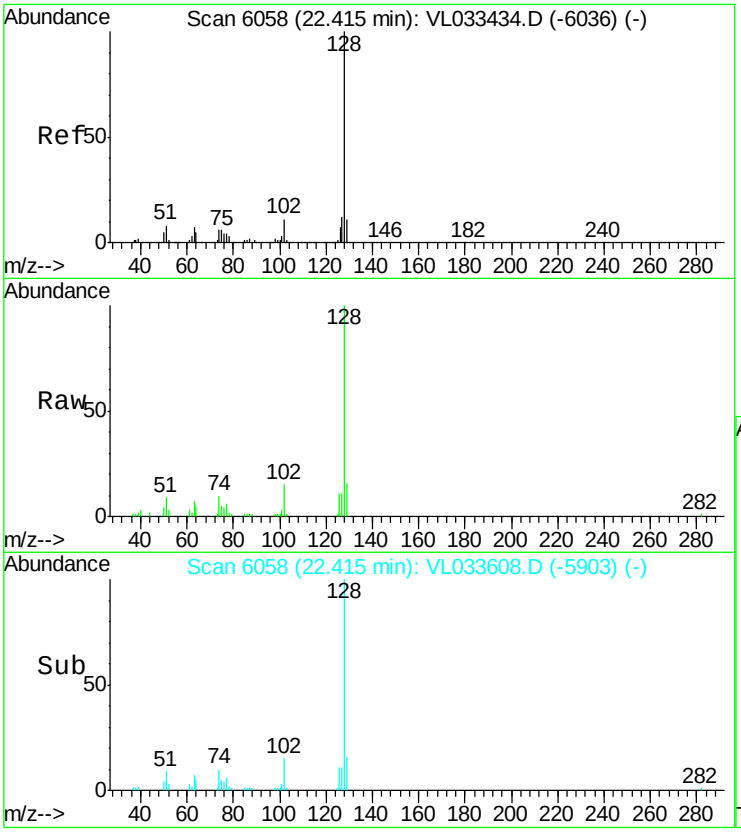


#78
Hexachloro-1,3-Butadiene
Concen: 0.978 ppbv
RT: 23.54 min Scan# 6409
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:225 Resp: 99593

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.0	75.0
227	64.5	51.1	76.7



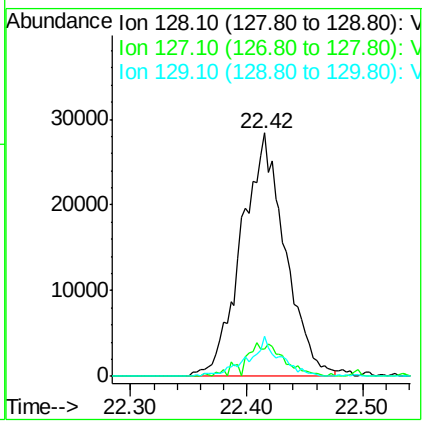


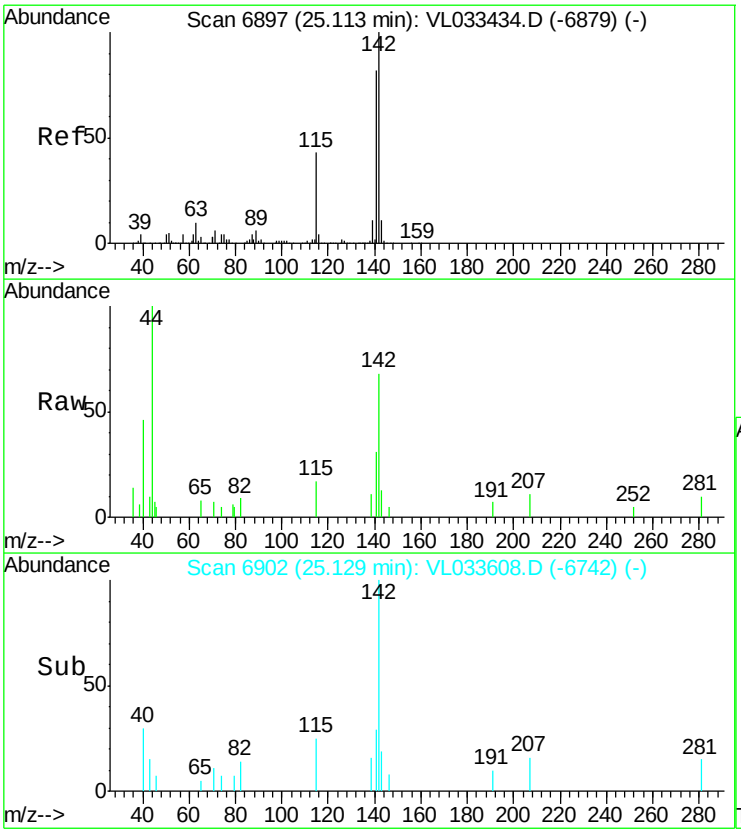
#79
Naphthalene
Concen: 0.330 ppbv m
RT: 22.42 min Scan# 6058
Delta R.T. -0.00 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:128 Resp: 74141

Ion	Ratio	Lower	Upper
128	100		
127	11.5	9.8	14.8
129	16.5	8.6	12.8#

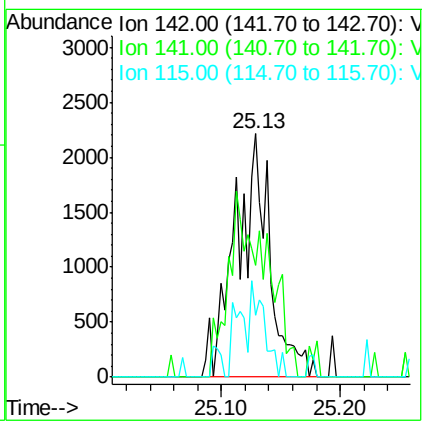


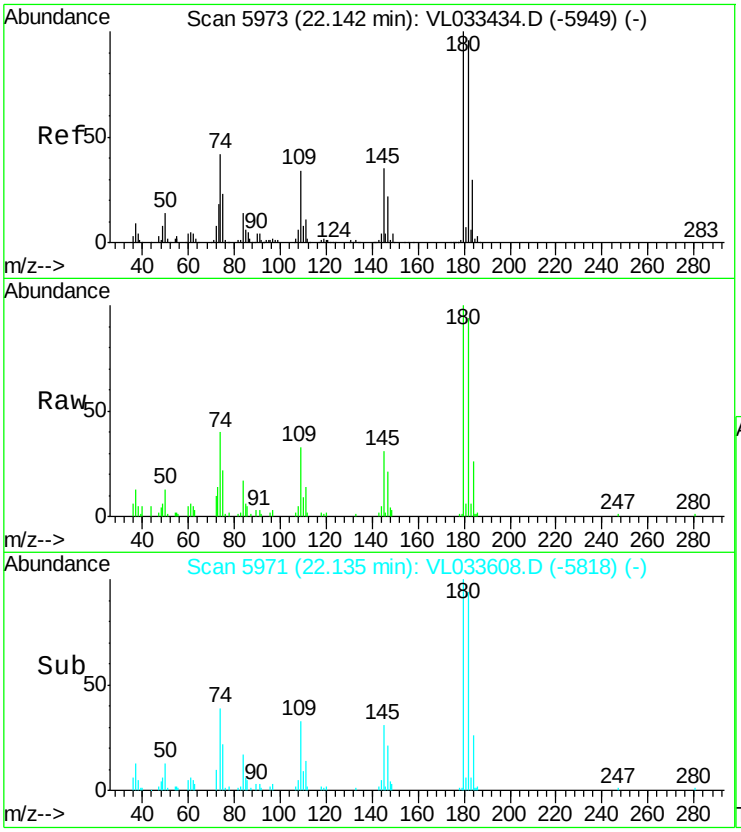


#80
Naphthalene,2-methyl-
Concen: 0.059 ppbv
RT: 25.13 min Scan# 6902
Delta R.T. 0.02 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Tgt Ion:142 Resp: 4473

Ion	Ratio	Lower	Upper
142	100		
141	86.5	66.6	99.8
115	30.3	34.4	51.6#





#81
1,2,4-Trichlorobenzene
Concen: 0.502 ppbv
RT: 22.14 min Scan# 5971
Delta R.T. -0.01 min
Lab File: VL033608.D
Acq: 17 Apr 2019 18:48

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tgt Ion:180 Resp: 62505

Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.0	115.4
184	29.3	24.6	36.8