Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101818\

Quantitation Report (Not Reviewed)

Data File : VL032683.D
Acq On : 19 Oct 2018 14:14
Operator : SY/AP
Sample : J5164-14 LOQ 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Quant Time: Oct 19 23:14:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.77	49	1559693	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.31	114	3722684	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.26	117	3627233	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.59	95	2748862	10.18	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.09	85	163071	1.026	ppbv		94
3) Chlorodifluoromethane	3.02	51	133001	1.090	ppbv		95
4) Chloromethane	3.18	50	71337	1.047	ppbv		98
5) Vinyl Chloride	3.30	62	70584	0.956	ppbv		99
6) Bromomethane	3.53	94	45588	0.990	ppbv		90
7) Chloroethane	3.62	64	26772	0.985	ppbv		90
8) Dichlorotetrafluoroethane	3.23	85	190906	1.140	ppbv		96
9) Propene	3.05	41	48547	0.967	ppbv		98
10) Heptane	8.26	43	181422	0.938	ppbv		97
11) Trichlorofluoromethane	4.01	101	195431	0.942	ppbv		95
12) 1,1,2-Trichlorotrifluoroet	4.56	101	188899	1.094	ppbv		95
13) Ethanol	3.67	45	20364	1.419	ppbv		99
14) Bromoethene	3.80	108	55792	0.956	ppbv		97
15) Acetone	3.92	43	139366	0.968	ppbv		98
16) 1,3-Butadiene	3.38	39	59278	1.119	ppbv	#	79
17) tert-Butyl alcohol	4.38	59	22032	0.520	ppbv	#	100
18) 1,1-Dichloroethene	4.36	96	86107	1.135	ppbv		90
19) Isopropyl Alcohol	4.05	45	93794	0.914	ppbv	#	95
20) Methylene Chloride	4.42	84	81792	1.119	ppbv		92
21) Allyl Chloride	4.49	41	122408	1.035	ppbv		94
22) trans-1,2-Dichloroethene	4.98	96	78375	1.008	ppbv		89
23) Vinyl Acetate	5.17	43	230369	0.903	ppbv		97
24) 1,1-Dichloroethane	5.10	63	178548	0.891	ppbv		99
25) Ethyl Acetate	5.79	43	343892	1.037	ppbv		99
26) Hexane	5.79	57	163556	1.043	ppbv		97
27) Carbon Disulfide	4.63	76	184490	0.970	ppbv	#	91
28) Methyl tert-Butyl Ether	5.13	73	96871	0.430	ppbv	#	53
29) Chloroform	5.86	83	268198	1.070	ppbv		98
30) Cyclohexane	7.26	84	112671	0.907	ppbv		96
31) cis-1,2-Dichloroethene	5.65	61	133149	0.915	ppbv		96
32) 1,1,1-Trichloroethane	6.63	97	254062	0.998	ppbv		99
34) 2-Butanone	5.35	43	203626	1.020	ppbv		100
35) Carbon Tetrachloride	7.15	117	275854	1.044	ppbv		96
36) Benzene	7.02	78	290756	0.962	ppbv		98
37) 1,2-Dichloroethane	6.43	62	194283	1.048	ppbv		99
38) Trichloroethene	7.98	130	115902	1.036	ppbv		95
39) 1,2-Dichloropropane	7.75	63	113132	0.969	ppbv		99
40) 1,4-Dioxane	8.00	88	21955	0.551	ppbv	#	1
41) Tetrahydrofuran	6.18	42	103562	0.931	ppbv		97
42) Bromodichloromethane	7.93	83	264480	1.018	ppbv		99
43) Methyl Methacrylate	8.16	69	98521	0.889	ppbv		90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101818\

Quantitation Report (Not Reviewed)

Data File : VL032683.D
Acq On : 19 Oct 2018 14:14
Operator : SY/AP
Sample : J5164-14 LOQ 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Quant Time: Oct 19 23:14:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	547643	1.061 ppbv		97
45) t-1,3-Dichloropropene	9.43	75	122167	0.824 ppbv		94
46) cis-1,3-Dichloropropene	8.85	75	135272	0.798 ppbv		93
47) 1,1,2-Trichloroethane	9.63	97	141972	1.029 ppbv		97
48) Dibromochloromethane	10.47	129	211729	0.921 ppbv		98
49) Bromoform	13.22	173	192153	1.064 ppbv		97
50) 4-Methyl-2-Pentanone	8.90	43	288170	0.975 ppbv		97
51) 2-Hexanone	10.31	43	175930	0.801 ppbv	#	94
52) Tetrachloroethene	11.39	164	100347	0.952 ppbv		97
53) Toluene	9.96	91	183340	0.529 ppbv	#	20
54) 1,2-Dibromoethane	10.78	107	186616	0.995 ppbv		96
56) 1,1,1,2-Tetrachloroethane	12.30	131	179306	1.130 ppbv	#	1
57) Chlorobenzene	12.32	112	140773	0.528 ppbv		98
58) Ethyl Benzene	12.88	91	411963	0.978 ppbv		100
59) m/p-Xylene	13.16	91	390585	1.041 ppbv	#	30
60) o-Xylene	13.87	91	381095	1.053 ppbv		99
61) Styrene	13.70	104	222463	0.917 ppbv		99
62) Isopropylbenzene	14.84	105	538953	1.052 ppbv		99
63) 1,1,2,2-Tetrachloroethane	13.85	83	308764	1.089 ppbv		98
64) n-propylbenzene	15.74	120	84324	0.662 ppbv	#	1
65) tert-Butylbenzene	16.92	119	465150	1.066 ppbv		98
66) Benzyl Chloride	17.17	91	132473	0.588 ppbv	#	66
67) sec-Butylbenzene	17.48	105	675676	1.089 ppbv		100
69) p-Isopropyltoluene	17.84	119	508824	1.035 ppbv		99
70) n-Butylbenzene	18.73	91	530560	1.048 ppbv		98
71) 2-Chlorotoluene	15.64	91	365177	1.003 ppbv		100
72) 4-Ethyltoluene	16.02	105	391894	1.017 ppbv	#	97
73) 1,3,5-Trimethylbenzene	16.17	105	395270	1.053 ppbv		99
74) 1,2,4-Trimethylbenzene	16.94	105	439766	1.097 ppbv	#	94
75) 1,3-Dichlorobenzene	17.18	146	259418	1.125 ppbv		99
76) 1,4-Dichlorobenzene	17.33	146	218668	1.028 ppbv		97
77) 1,2-Dichlorobenzene	18.01	146	100423	0.460 ppbv	#	6
78) Hexachloro-1,3-Butadiene	23.56	225	109416	1.060 ppbv		99
79) Naphthalene	22.44	128	98303	0.394 ppbv		97
80) Naphthalene,2-methyl-	25.14	142	8161	0.135 ppbv		98
81) 1,2,4-Trichlorobenzene	22.15	180	41243	0.319 ppbv	#	1

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

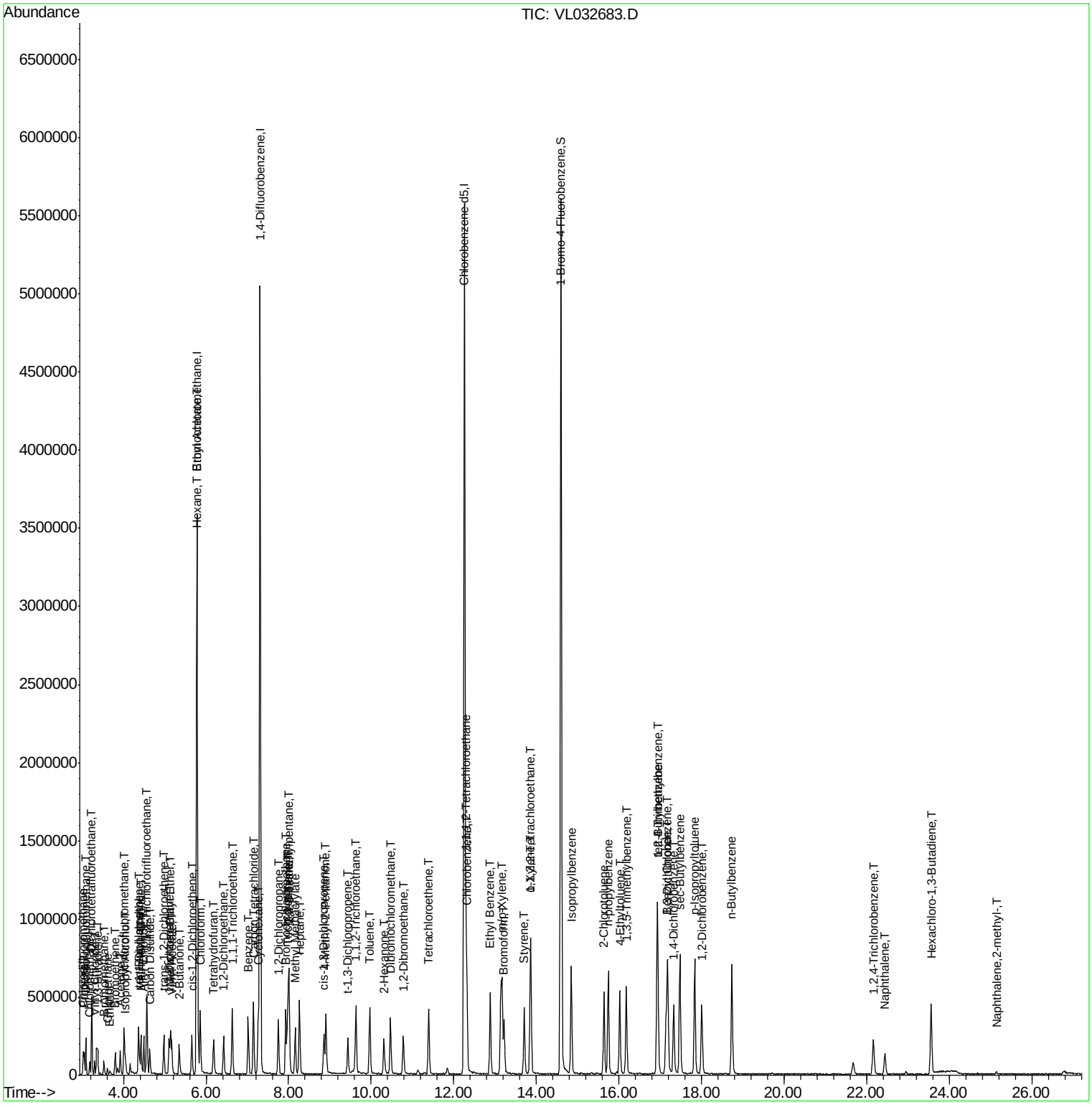
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101818\

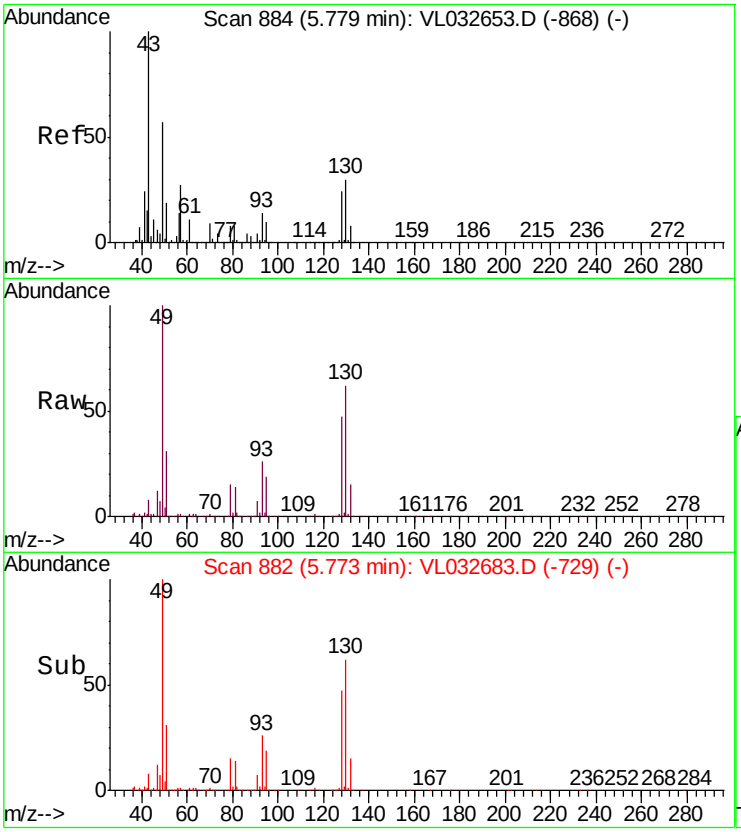
Quantitation Report (Not Reviewed)

Data File : VL032683.D
Acq On : 19 Oct 2018 14:14
Operator : SY/AP
Sample : J5164-14 LOQ 1 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Quant Time: Oct 19 23:14:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration



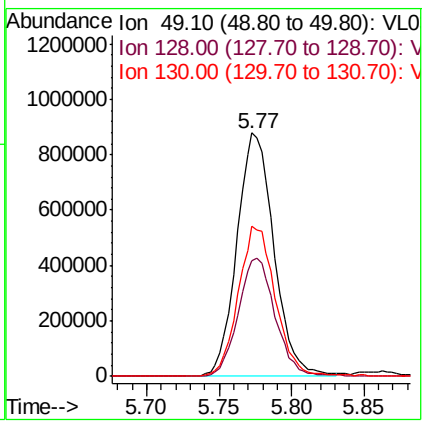


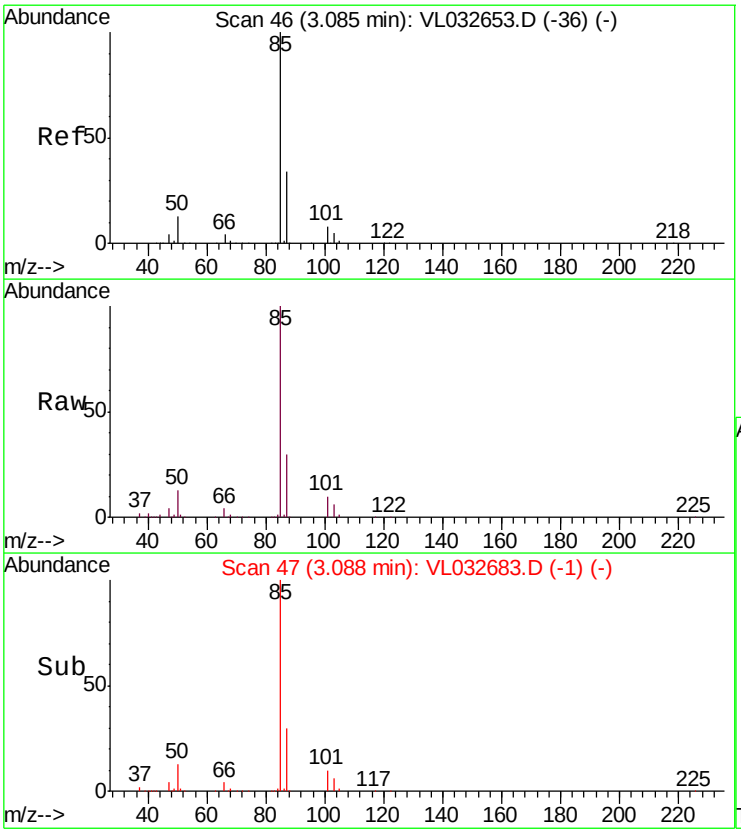
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 49 Resp: 1559693

Ion	Ratio	Lower	Upper
49	100		
128	48.8	22.3	66.8
130	62.3	28.4	85.3

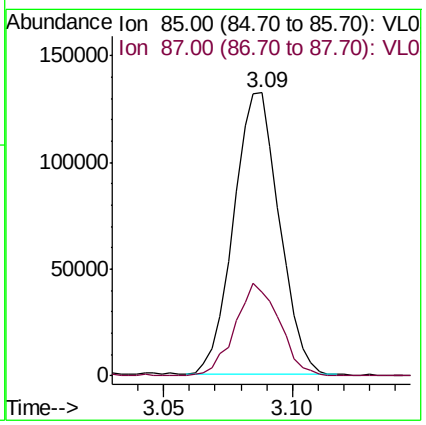


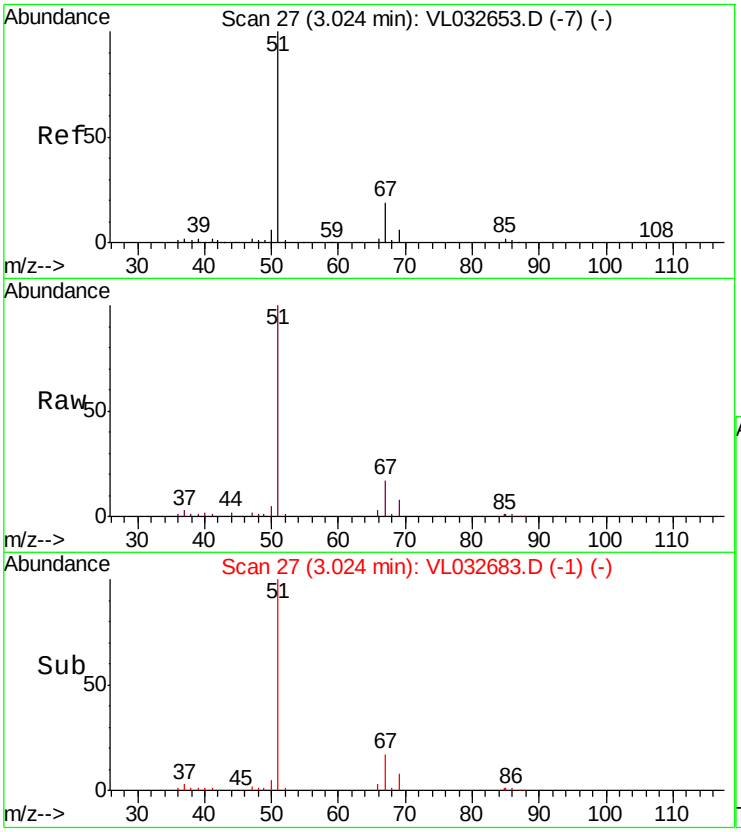


#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 3.09 min Scan# 47
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 85 Resp: 163071

Ion	Ratio	Lower	Upper
85	100		
87	29.5	26.2	39.2



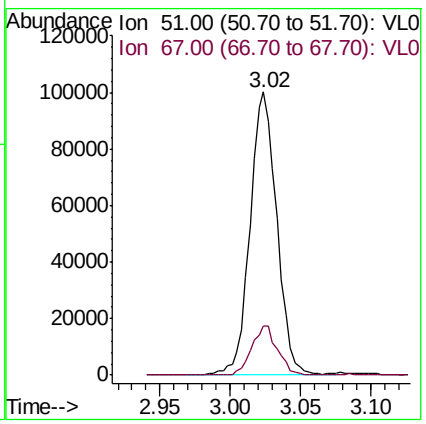


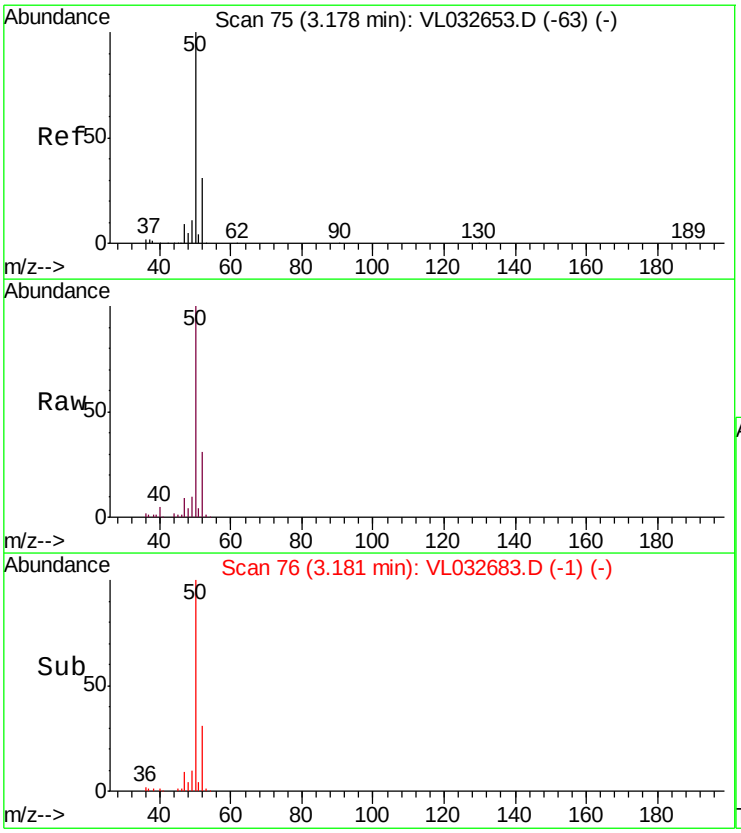
#3
Chlorodifluoromethane
Concen: 1.090 ppbv
RT: 3.02 min Scan# 27
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 51 Resp: 133001

Ion	Ratio	Lower	Upper
51	100		
67	16.8	15.2	22.8

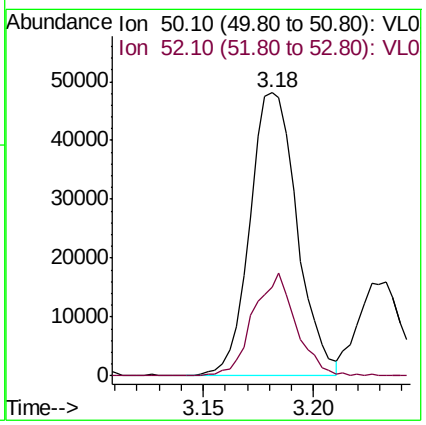


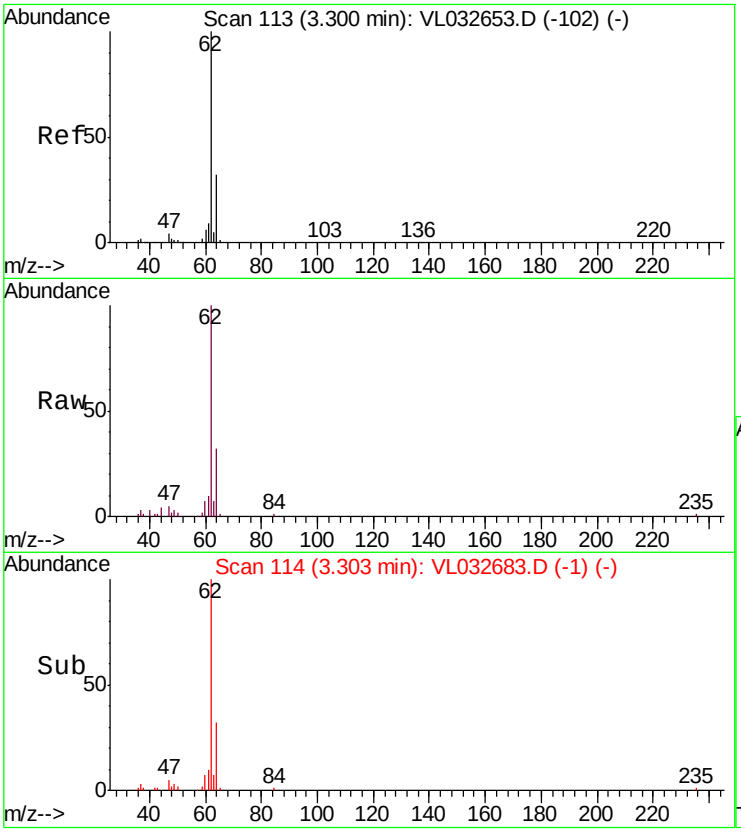


#4
Chloromethane
Concen: 1.047 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 50 Resp: 71337

Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.9	38.9



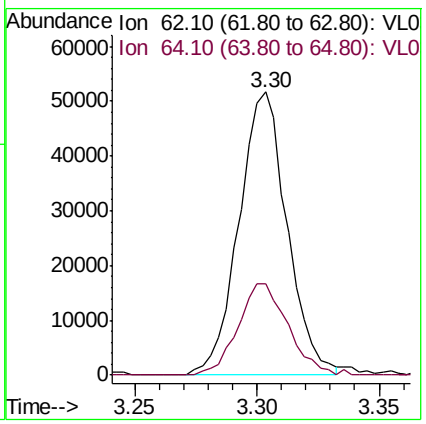


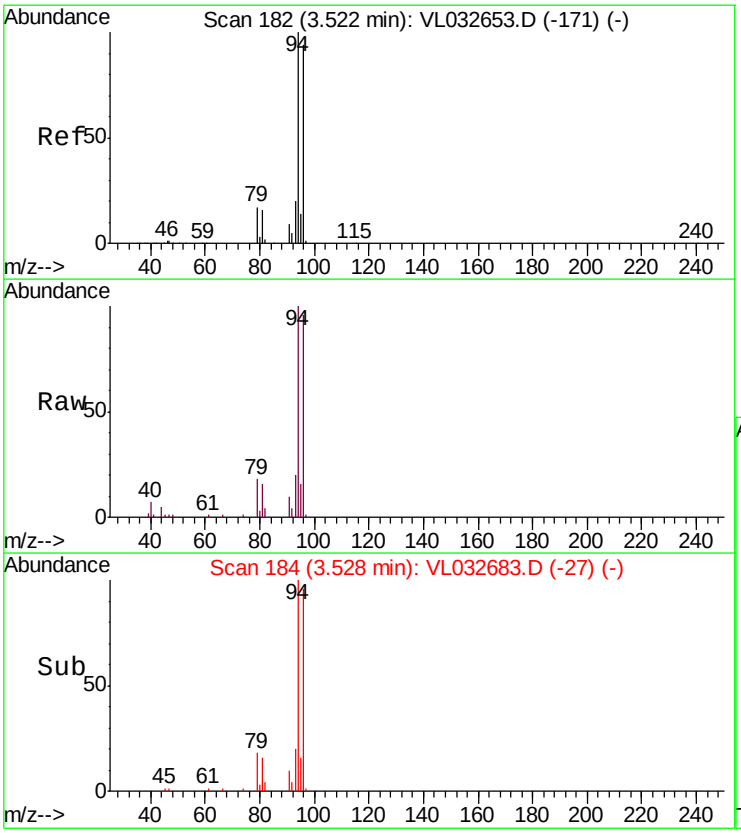
#5
Vinyl Chloride
Concen: 0.956 ppbv
RT: 3.30 min Scan# 114
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 62 Resp: 70584

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.5	38.3

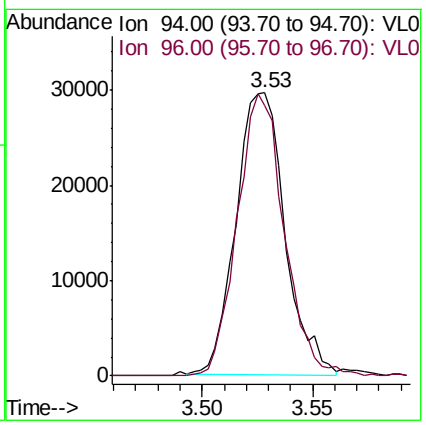


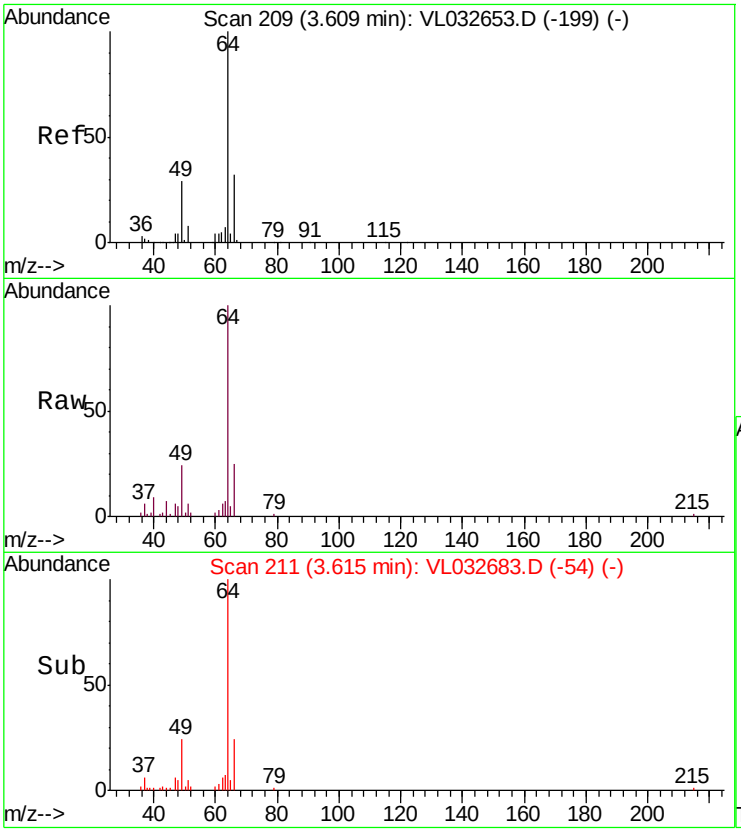


#6
Bromomethane
Concen: 0.990 ppbv
RT: 3.53 min Scan# 184
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 94 Resp: 45588

Ion	Ratio	Lower	Upper
94	100		
96	96.4	69.8	104.8



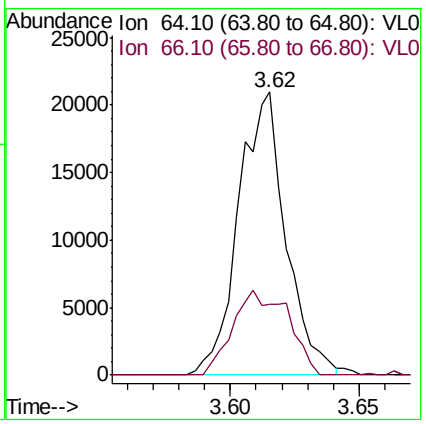


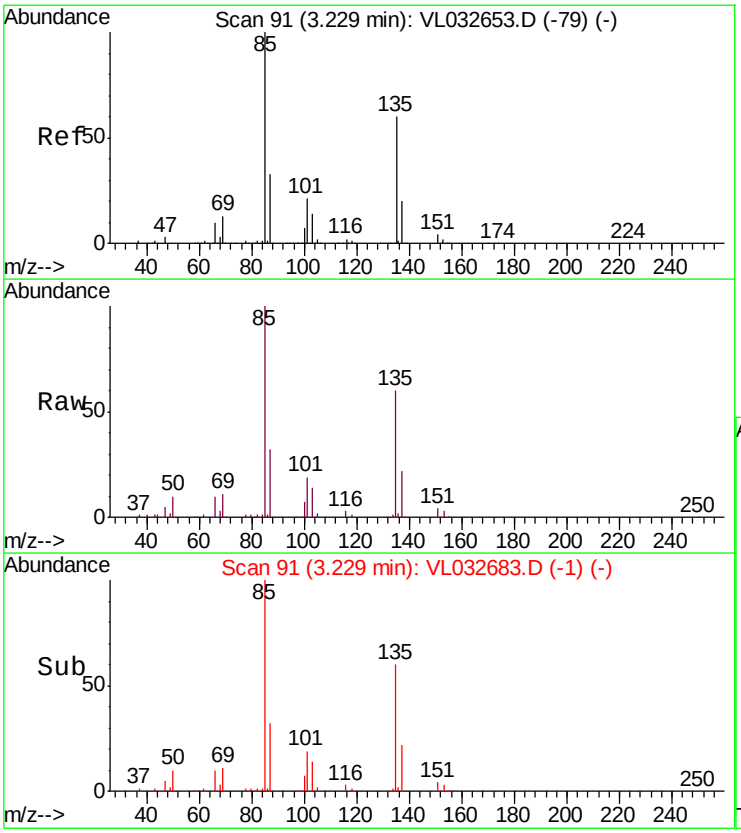
#7
Chloroethane
Concen: 0.985 ppbv
RT: 3.62 min Scan# 211
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 64 Resp: 26772

Ion	Ratio	Lower	Upper
64	100		
66	25.1	24.4	36.6

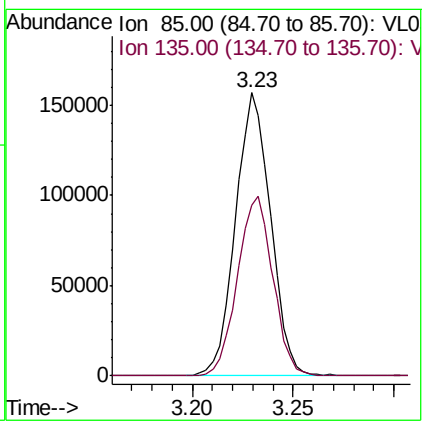


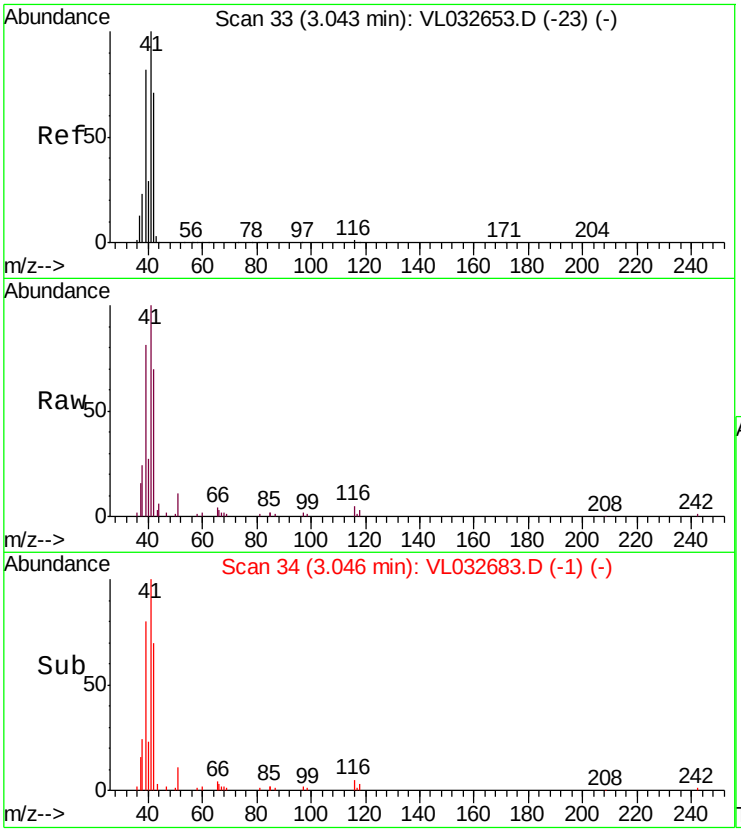


#8
Dichlorotetrafluoroethane
Concen: 1.140 ppbv
RT: 3.23 min Scan# 91
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 85 Resp: 190906

Ion	Ratio	Lower	Upper
85	100		
135	64.3	49.0	73.4



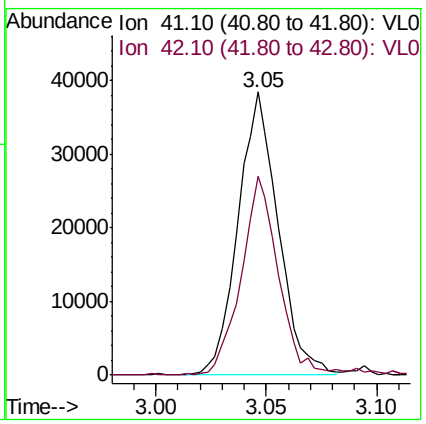


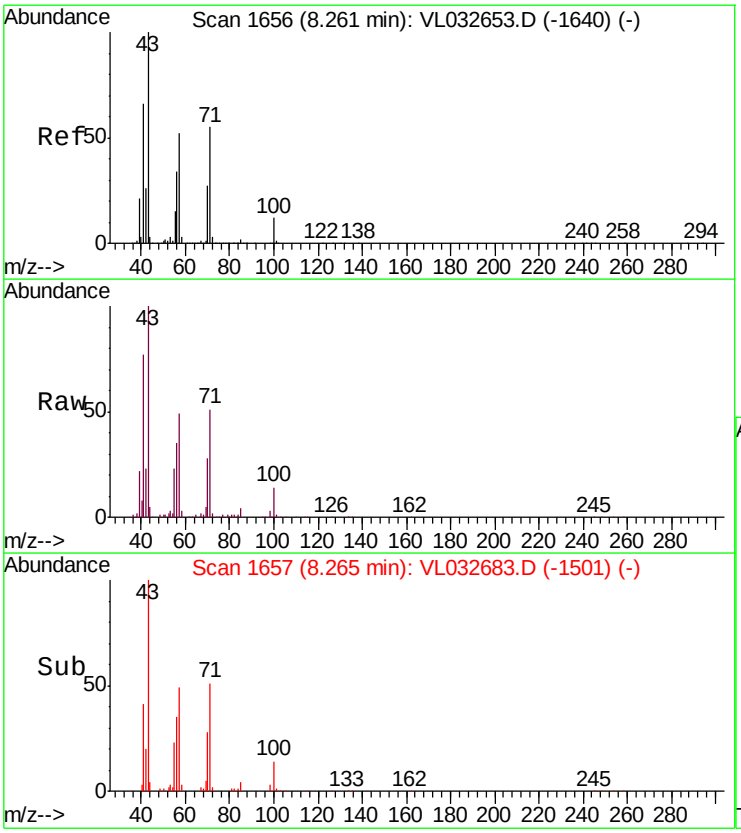
#9
Propene
Concen: 0.967 ppbv
RT: 3.05 min Scan# 34
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 41 Resp: 48547

Ion	Ratio	Lower	Upper
41	100		
42	67.3	55.4	83.0

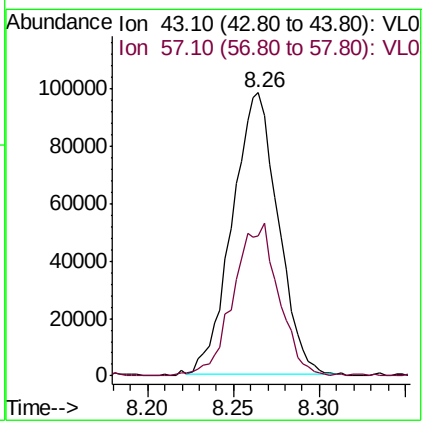


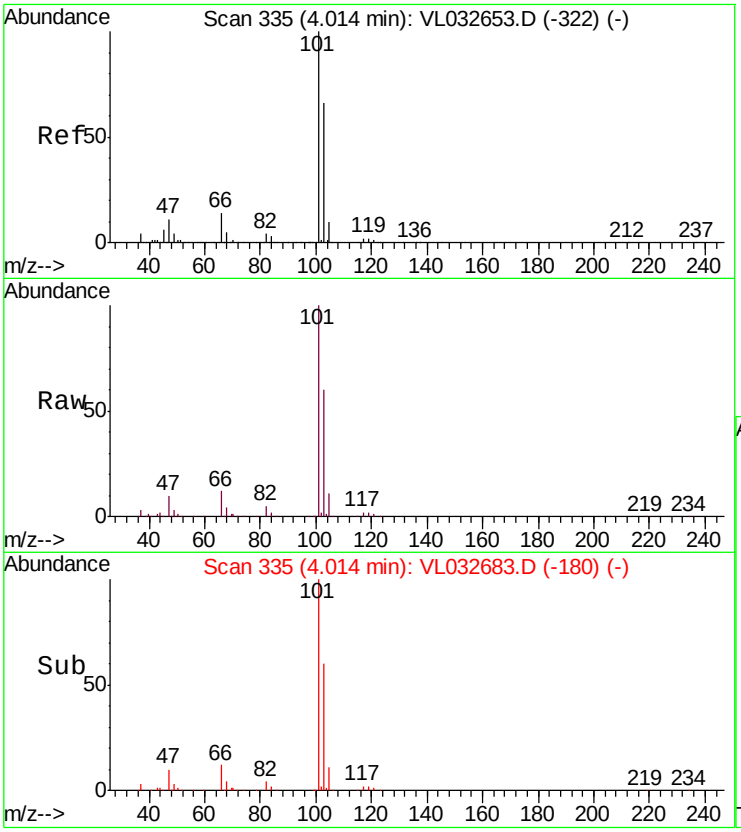


#10
Heptane
Concen: 0.938 ppbv
RT: 8.26 min Scan# 1657
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 43 Resp: 181422

Ion	Ratio	Lower	Upper
43	100		
57	53.9	41.5	62.3



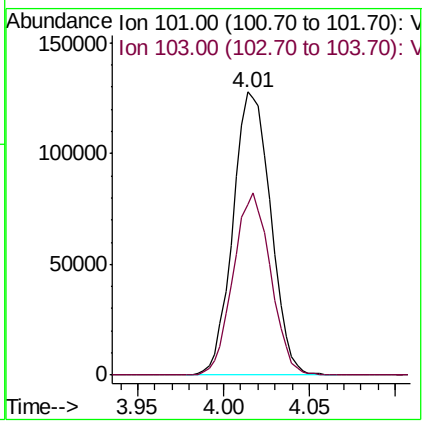


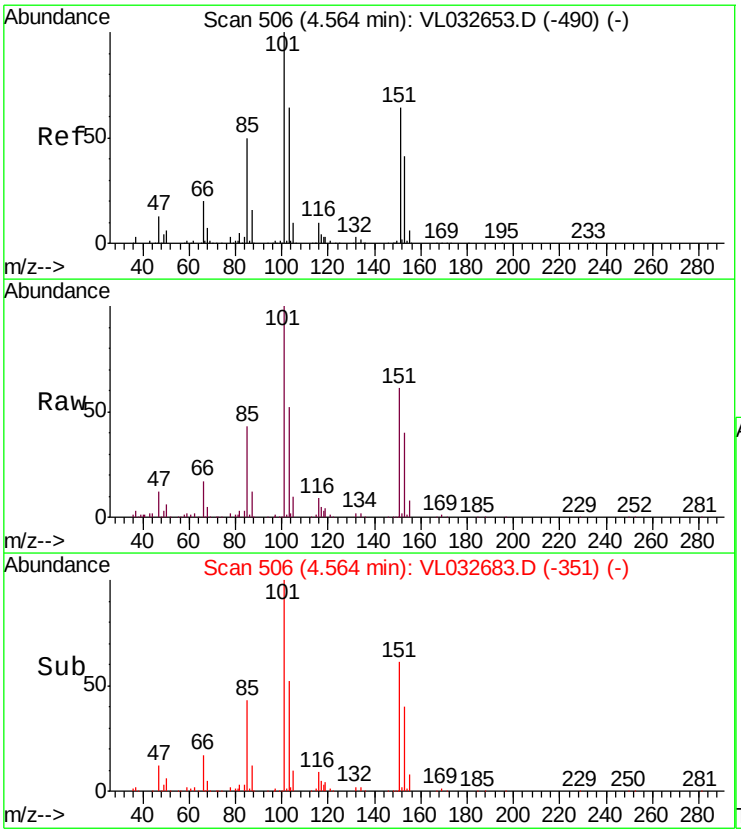
#11
Trichlorofluoromethane
Concen: 0.942 ppbv
RT: 4.01 min Scan# 335
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:101 Resp: 195431

Ion	Ratio	Lower	Upper
101	100		
103	60.5	51.4	77.2

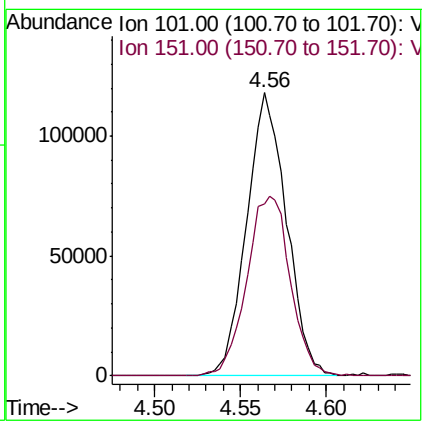


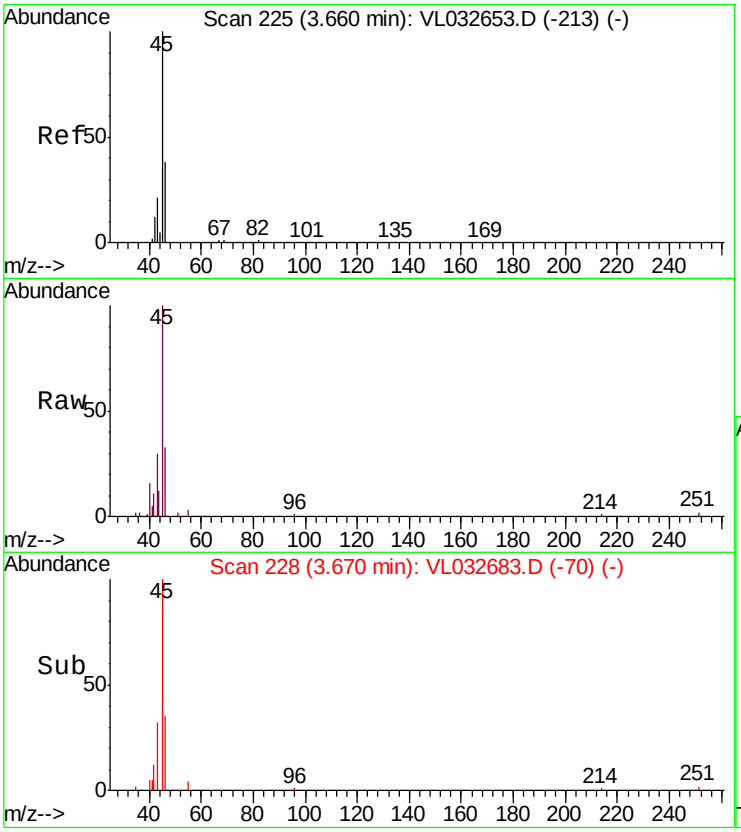


#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.094 ppbv
RT: 4.56 min Scan# 506
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:101 Resp: 188899

Ion	Ratio	Lower	Upper
101	100		
151	69.5	52.3	78.5



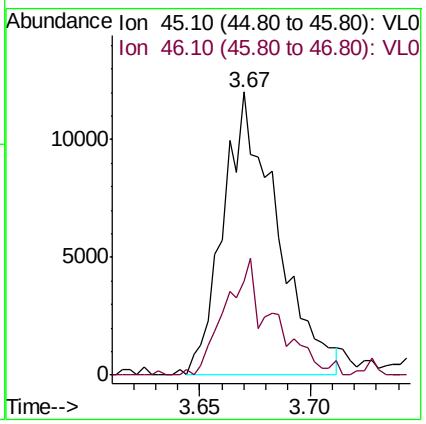


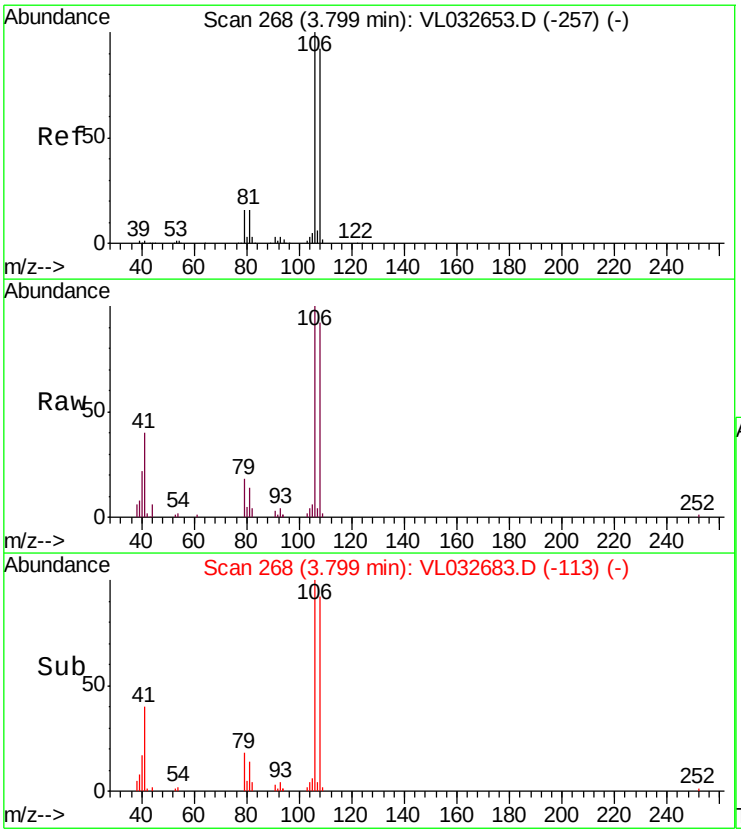
#13
Ethanol
Concen: 1.419 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 45 Resp: 20364

Ion	Ratio	Lower	Upper
45	100		
46	38.0	15.4	61.8

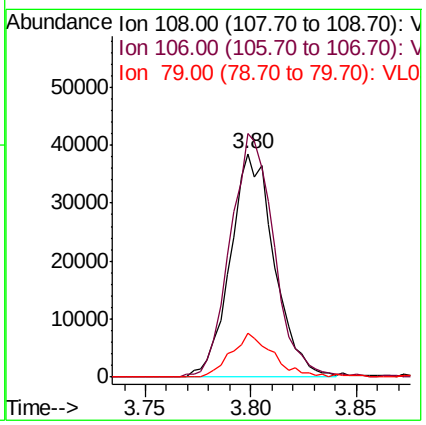


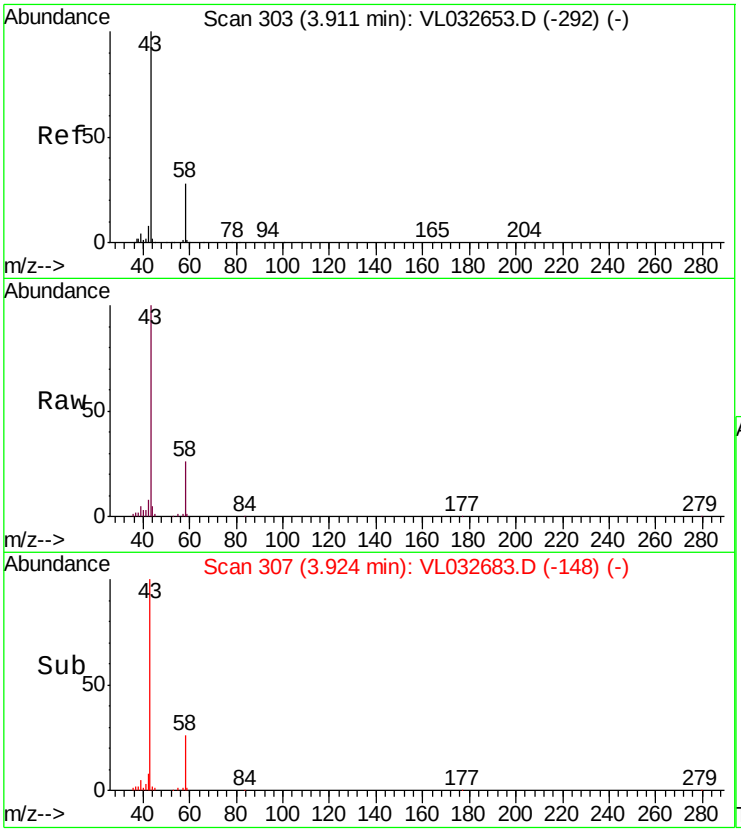


#14
Bromoethene
Concen: 0.956 ppbv
RT: 3.80 min Scan# 268
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:108 Resp: 55792

Ion	Ratio	Lower	Upper
108	100		
106	109.1	85.0	127.4
79	19.0	13.7	20.5



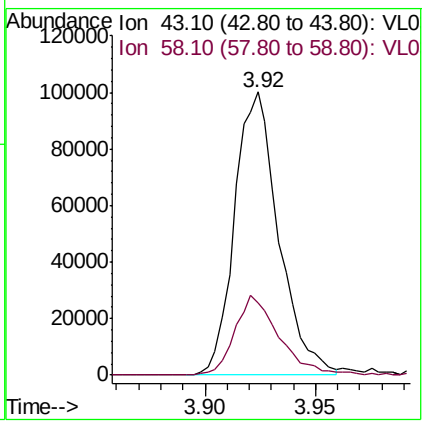


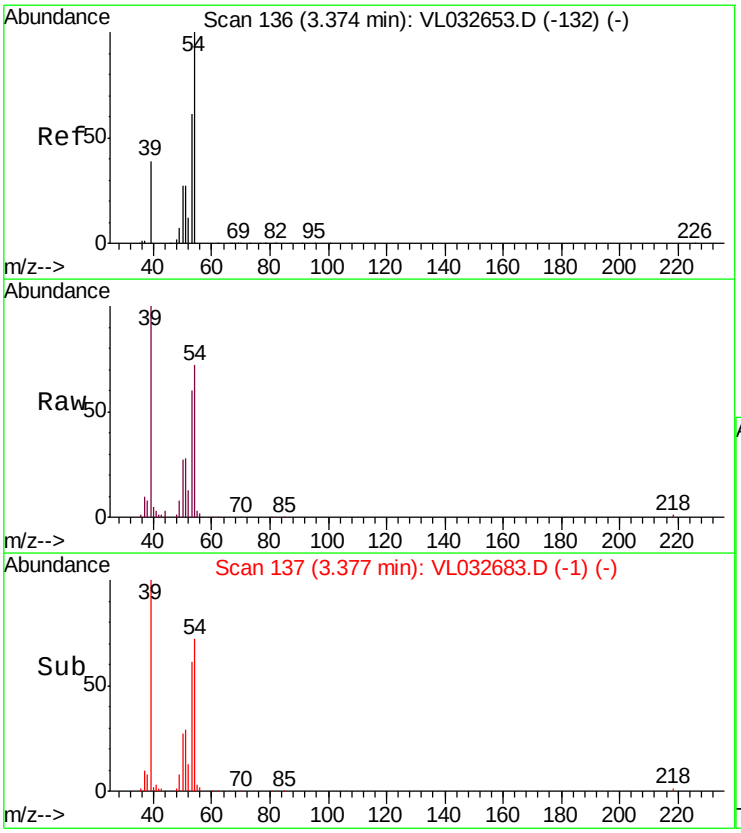
#15
Acetone
Concen: 0.968 ppbv
RT: 3.92 min Scan# 307
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 43 Resp: 139366

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.1	33.1

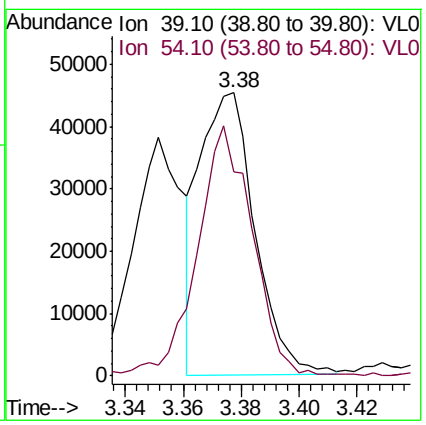


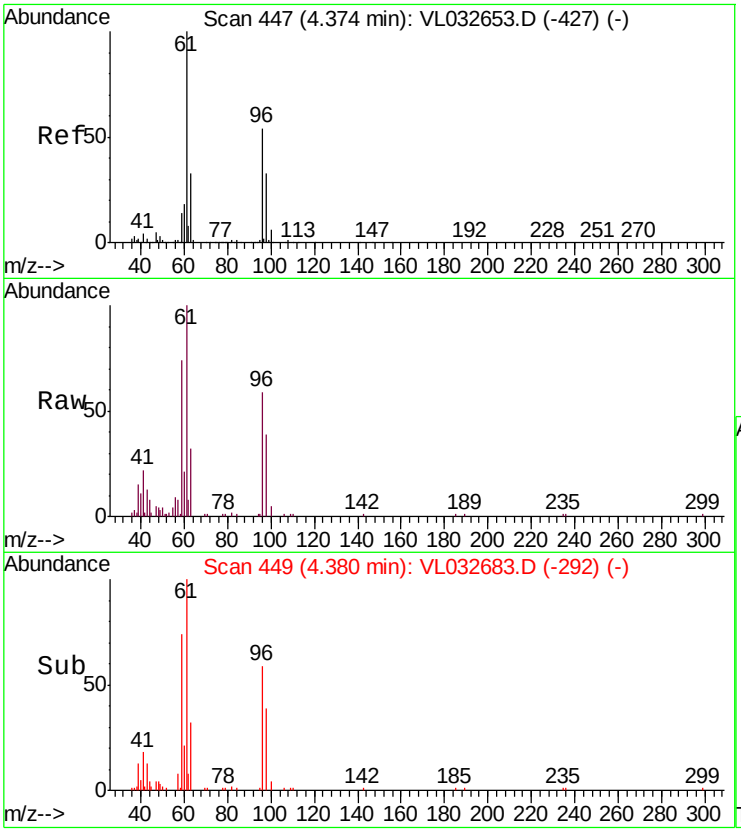


#16
1,3-Butadiene
Concen: 1.119 ppbv
RT: 3.38 min Scan# 137
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 39 Resp: 59278

Ion	Ratio	Lower	Upper
39	100		
54	90.1	90.4	135.6#



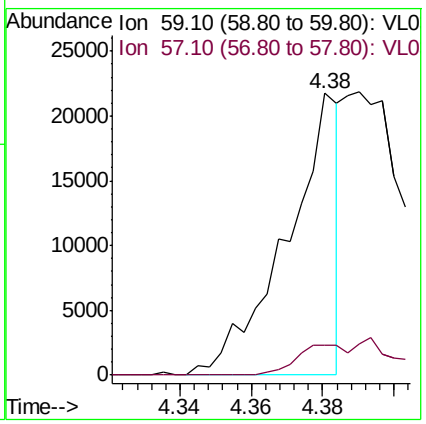


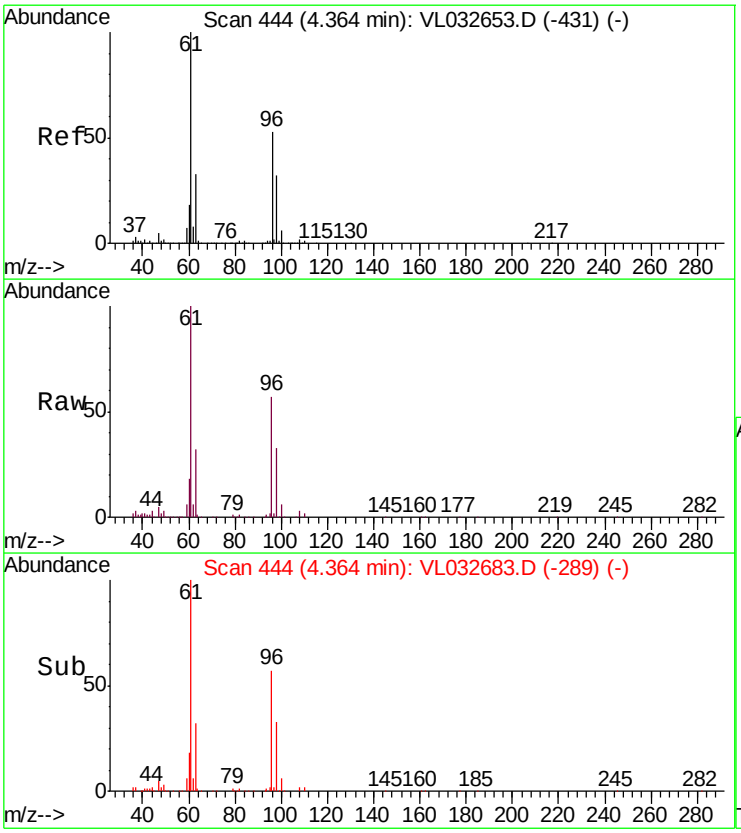
#17
tert-Butyl alcohol
Concen: 0.520 ppbv
RT: 4.38 min Scan# 449
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 59 Resp: 22032

Ion	Ratio	Lower	Upper
59	100		
57	0.0	0.0	0.0

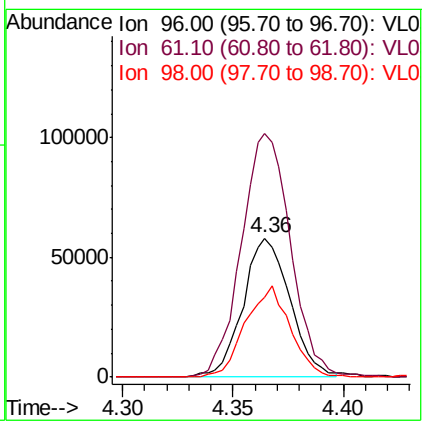


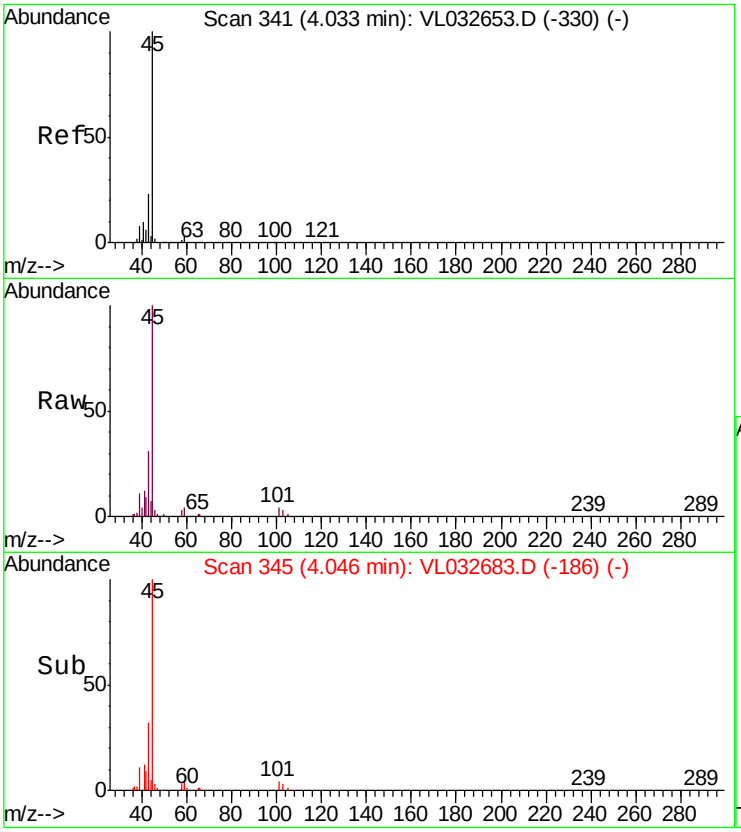


#18
1,1-Dichloroethene
Concen: 1.135 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 96 Resp: 86107

Ion	Ratio	Lower	Upper
96	100		
61	174.4	151.6	227.4
98	57.0	50.6	75.8



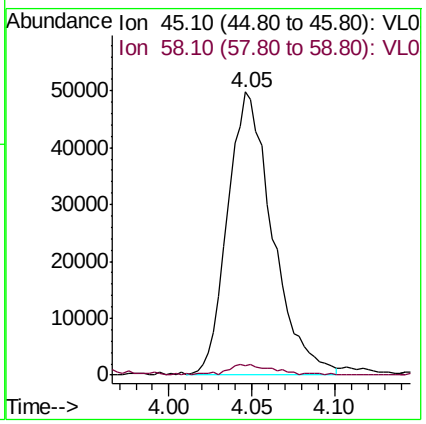


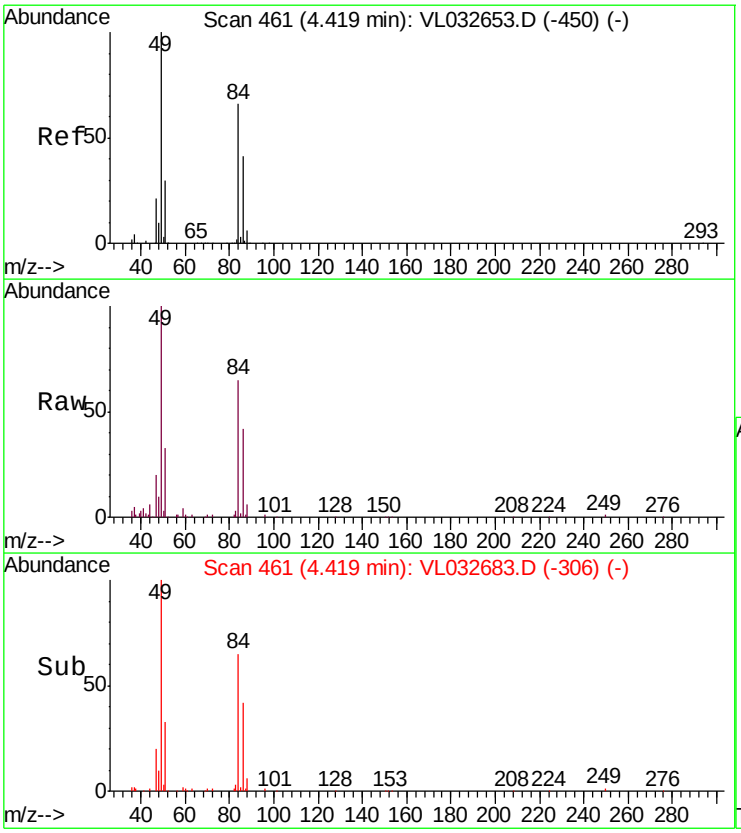
#19
Isopropyl Alcohol
Concen: 0.914 ppbv
RT: 4.05 min Scan# 345
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 45 Resp: 93794

Ion	Ratio	Lower	Upper
45	100		
58	4.2	2.0	3.0#

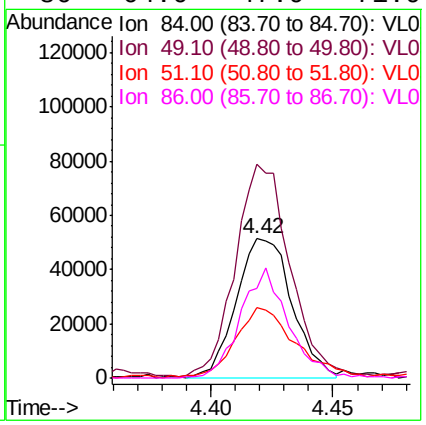


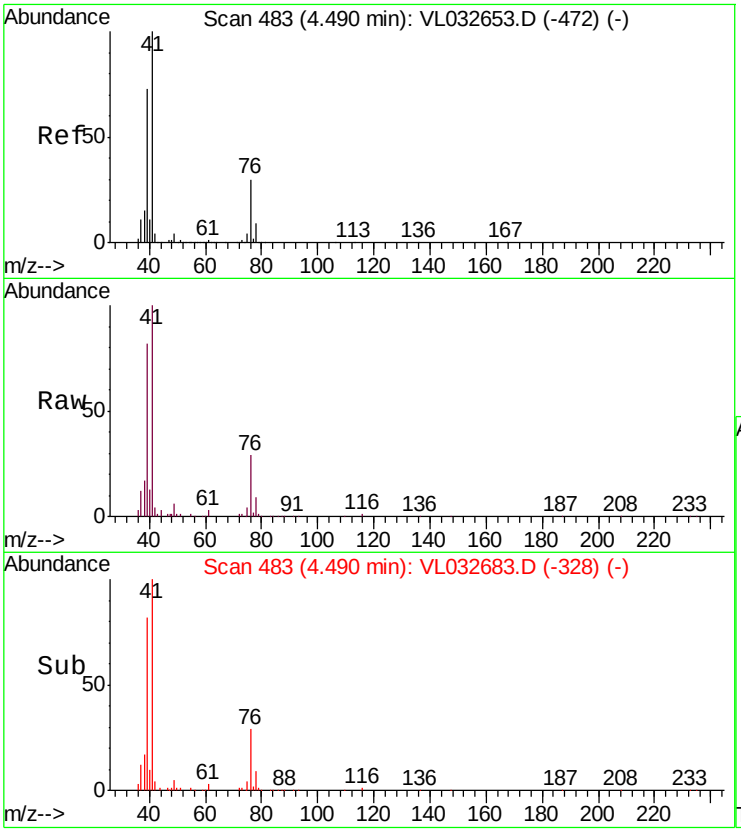


#20
Methylene Chloride
Concen: 1.119 ppbv
RT: 4.42 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 84 Resp: 81792

Ion	Ratio	Lower	Upper
84	100		
49	152.0	113.5	170.3
51	48.9	34.8	52.2
86	64.0	47.9	71.9



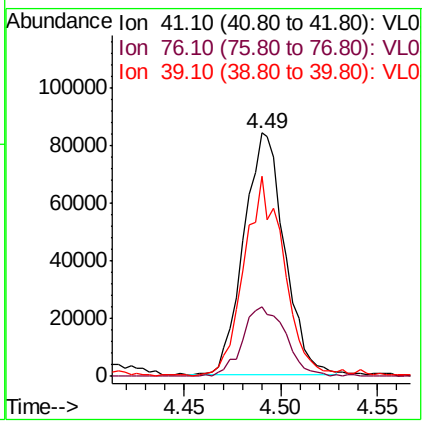


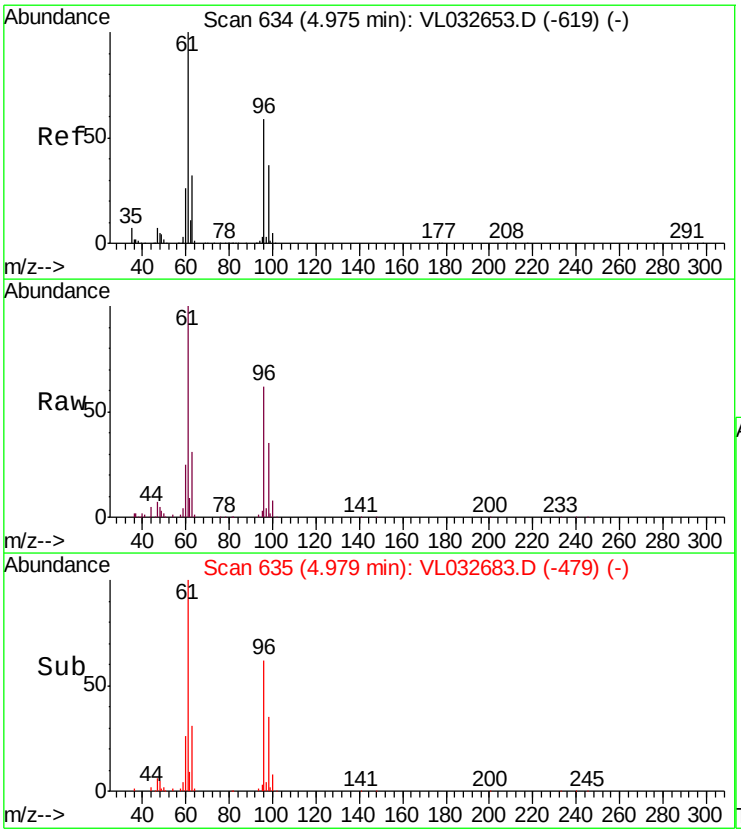
#21
Allyl Chloride
Concen: 1.035 ppbv
RT: 4.49 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 41 Resp: 122408

Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.3	36.5
39	81.8	60.3	90.5

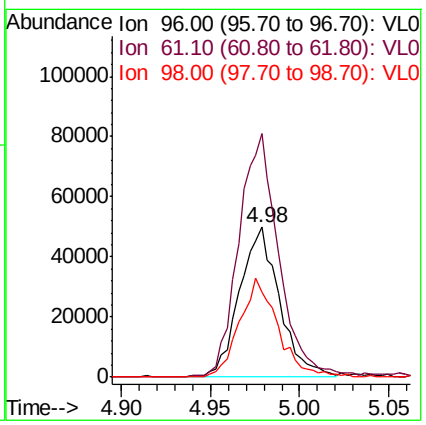


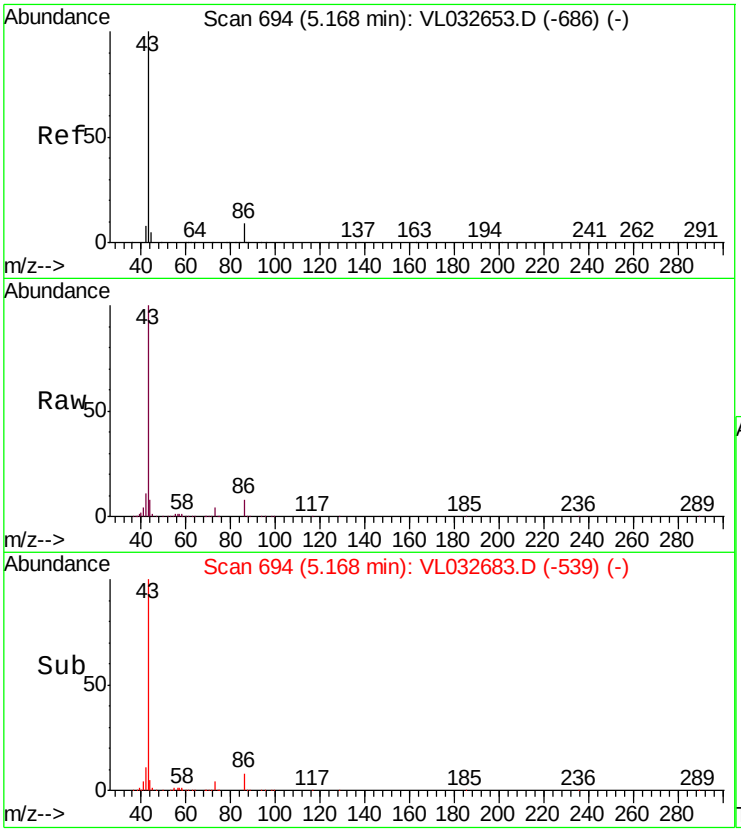


#22
trans-1,2-Dichloroethene
Concen: 1.008 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 96 Resp: 78375

Ion	Ratio	Lower	Upper
96	100		
61	162.5	140.4	210.6
98	56.5	55.0	82.6



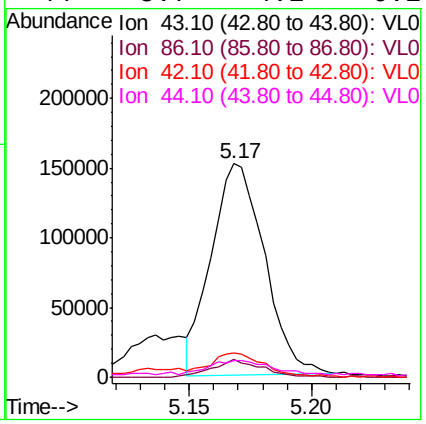


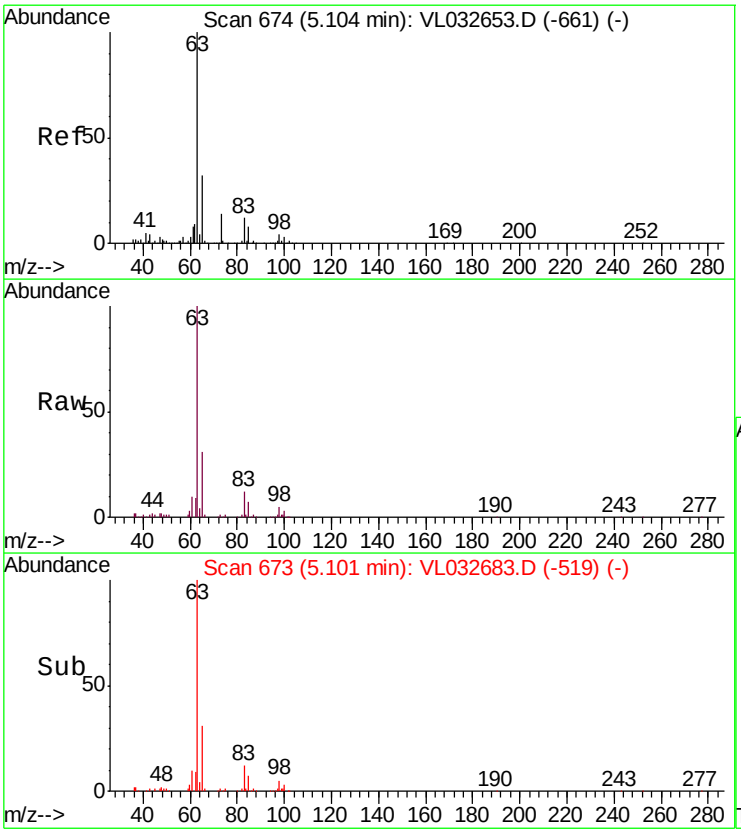
#23
Vinyl Acetate
Concen: 0.903 ppbv
RT: 5.17 min Scan# 694
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 43 Resp: 230369

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.1	9.1
42	11.0	7.4	11.2
44	5.7	4.2	6.2

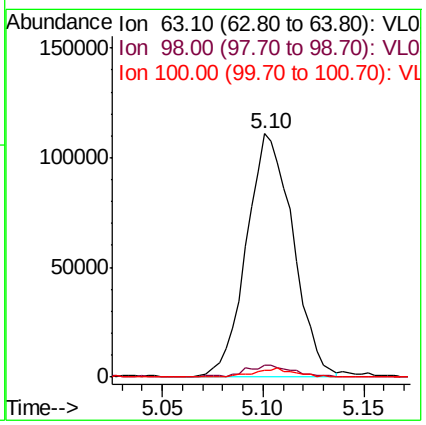


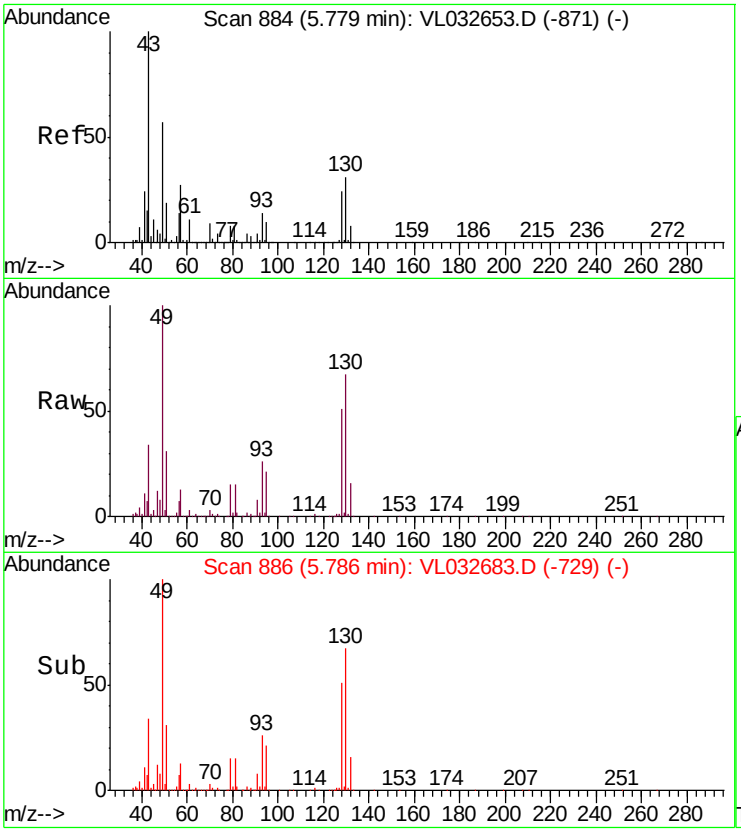


#24
1,1-Dichloroethane
Concen: 0.891 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 63 Resp: 178548

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.1	6.3
100	3.0	1.2	3.6



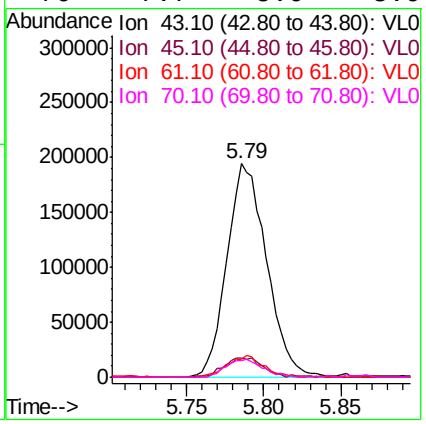


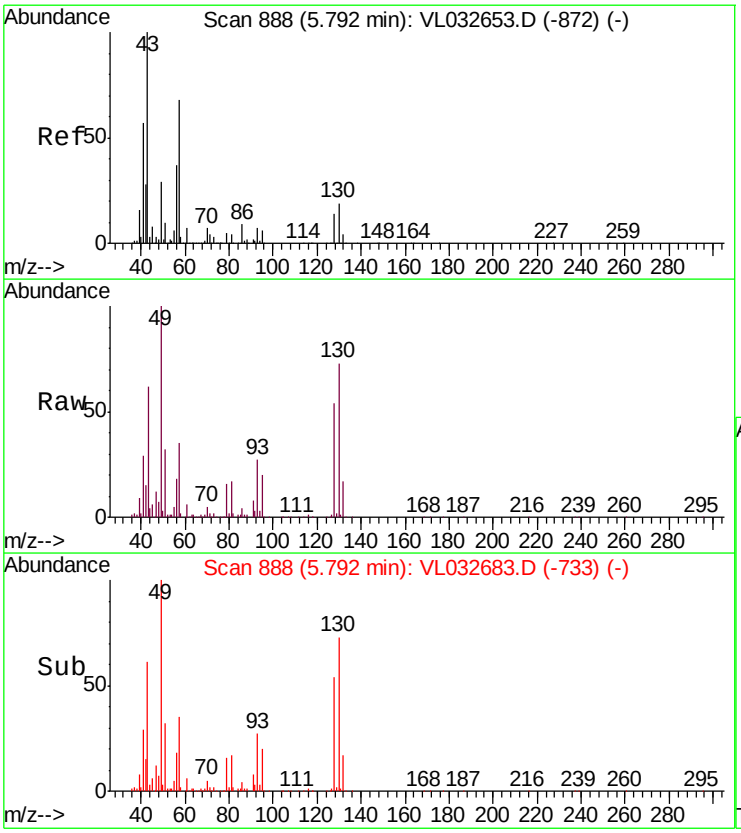
#25
Ethyl Acetate
Concen: 1.037 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Tgt Ion: 43 Resp: 343892

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.0	12.0
61	9.5	8.0	12.0
70	7.7	5.9	8.9

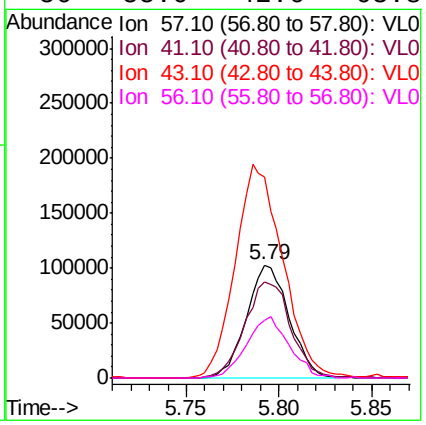


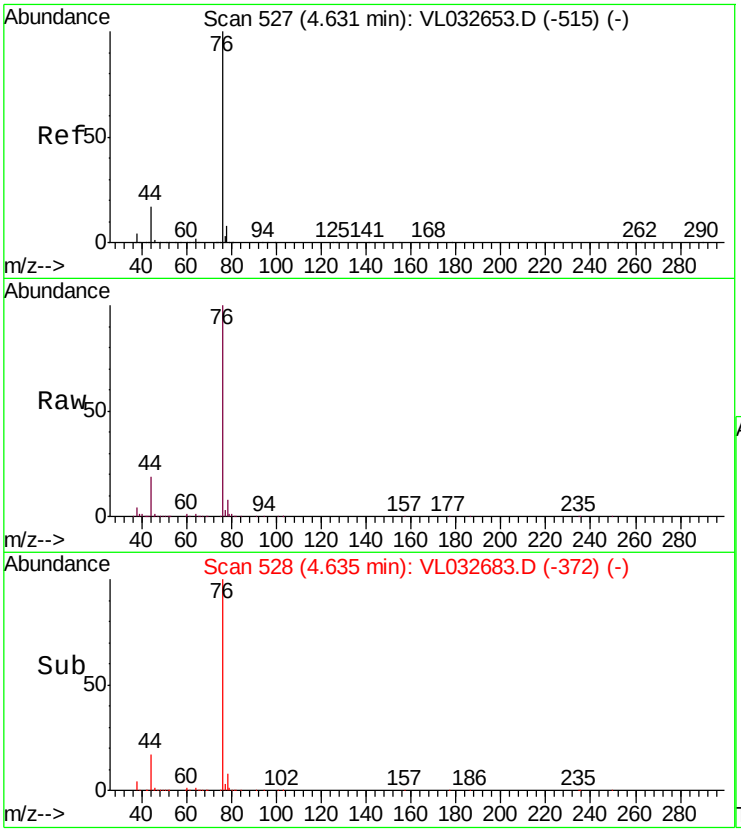


#26
Hexane
Concen: 1.043 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 57 Resp: 163556

Ion	Ratio	Lower	Upper
57	100		
41	92.9	67.4	101.0
43	214.9	171.9	257.9
56	55.0	42.6	63.8



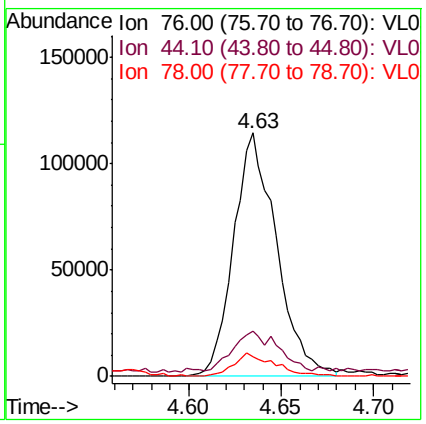


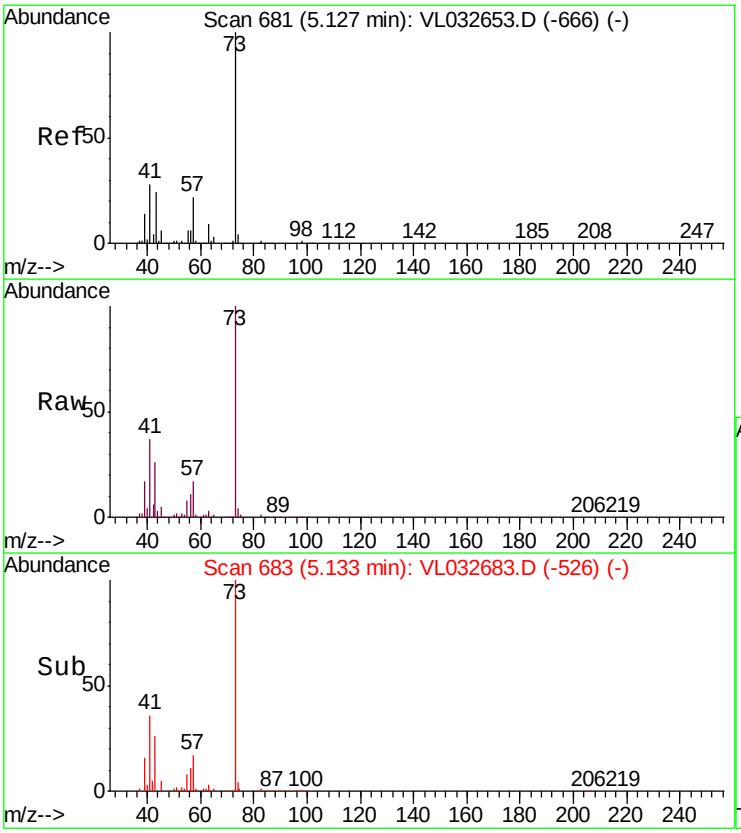
#27
Carbon Disulfide
Concen: 0.970 ppbv
RT: 4.63 min Scan# 528
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Tgt Ion: 76 Resp: 184490

Ion	Ratio	Lower	Upper
76	100		
44	22.9	13.7	20.5#
78	9.3	7.4	11.2

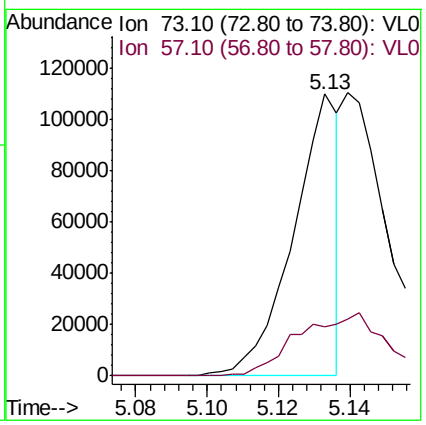


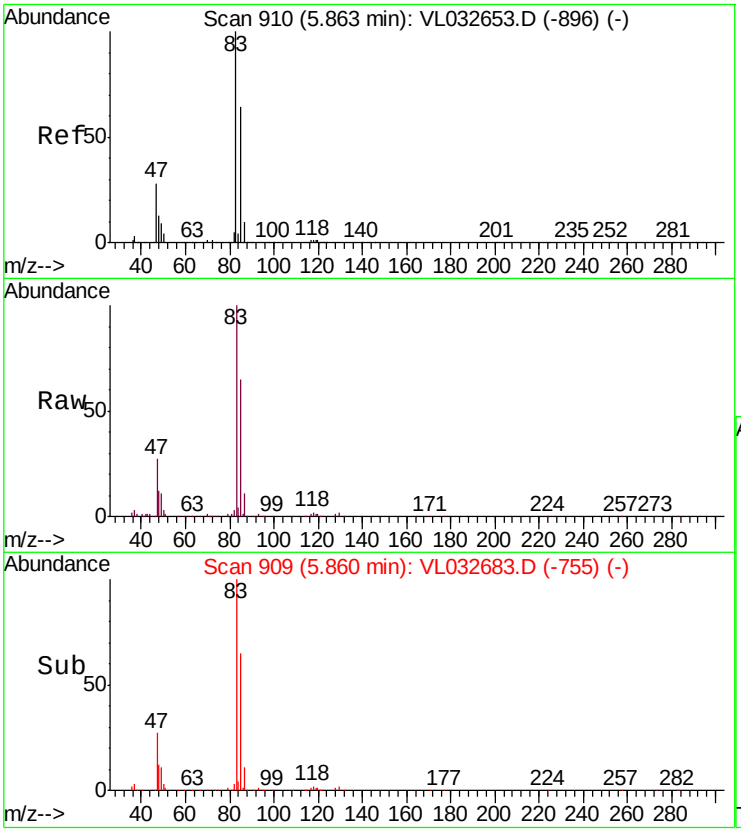


#28
Methyl tert-Butyl Ether
Concen: 0.430 ppbv
RT: 5.13 min Scan# 683
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 73 Resp: 96871

Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.0	27.0#



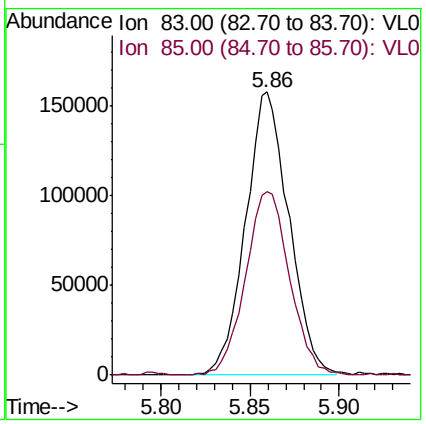


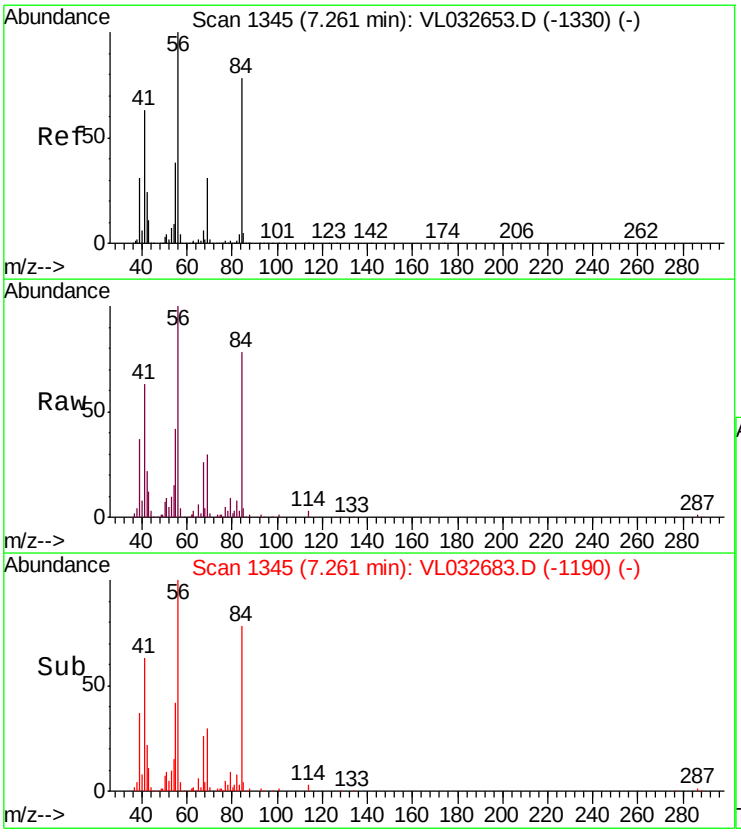
#29
Chloroform
Concen: 1.070 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 83 Resp: 268198

Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.0	79.6

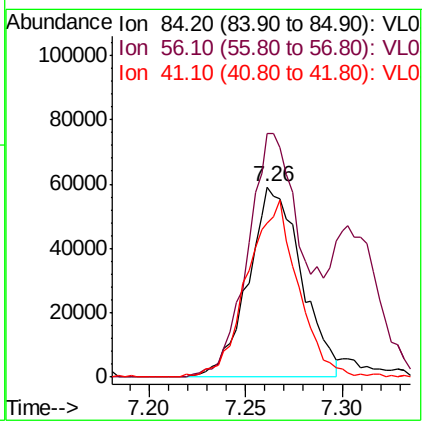


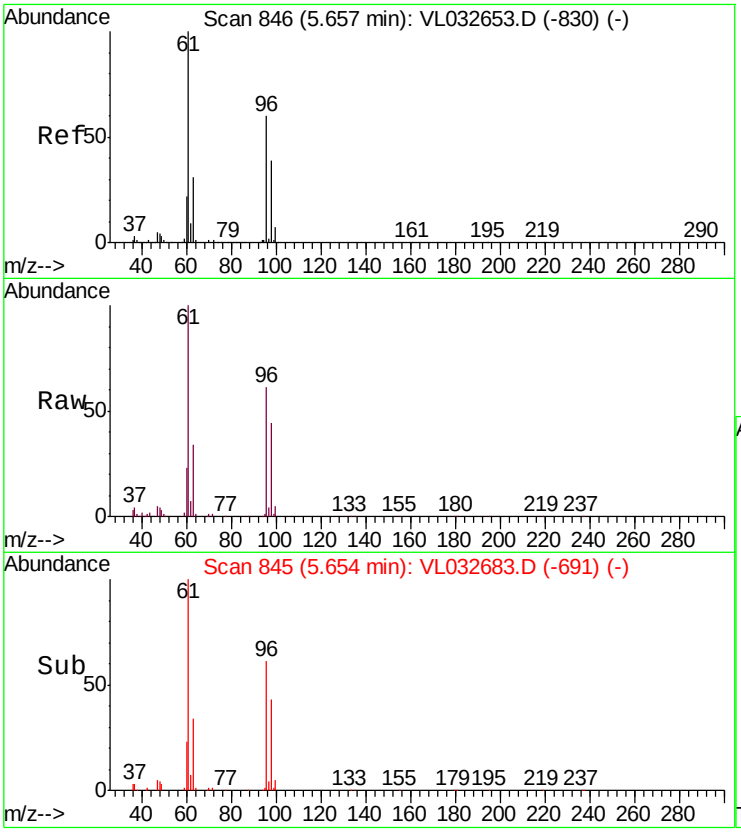


#30
Cyclohexane
Concen: 0.907 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 84 Resp: 112671

Ion	Ratio	Lower	Upper
84	100		
56	136.9	108.3	162.5
41	89.2	64.8	97.2



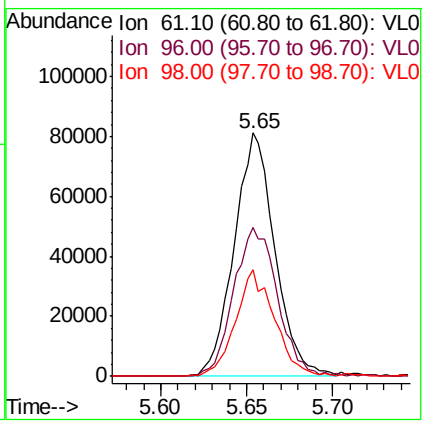


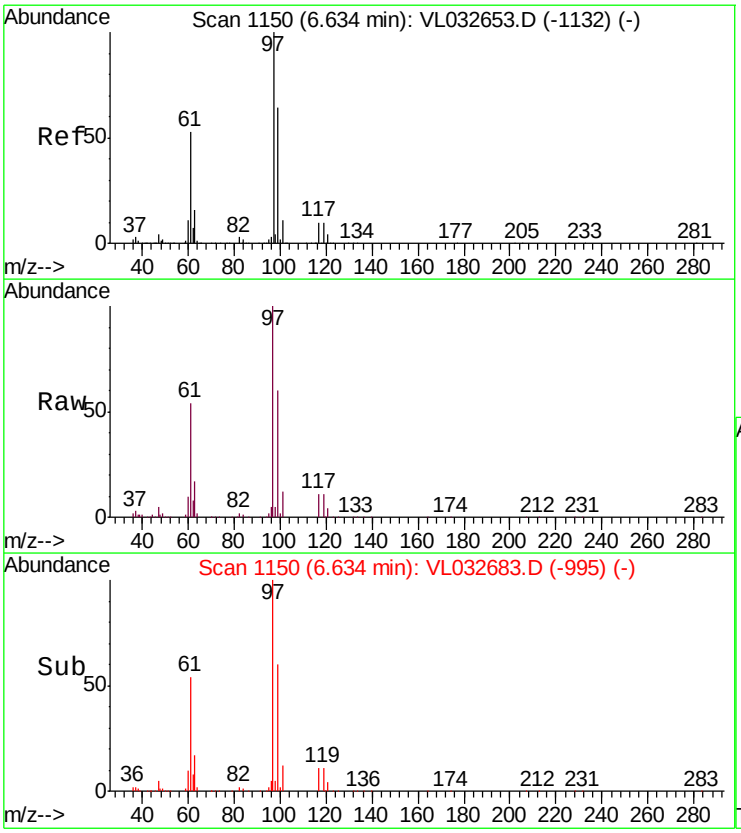
#31
cis-1,2-Dichloroethene
Concen: 0.915 ppbv
RT: 5.65 min Scan# 845
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 61 Resp: 133149

Ion	Ratio	Lower	Upper
61	100		
96	61.0	51.8	77.6
98	43.6	33.8	50.6

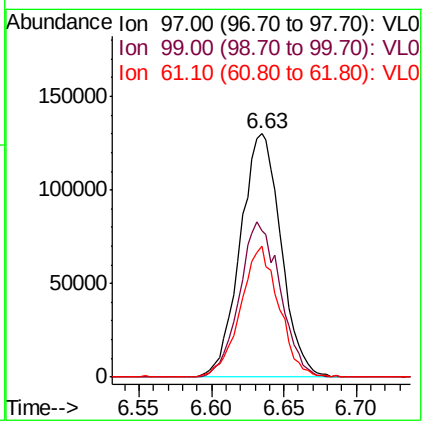


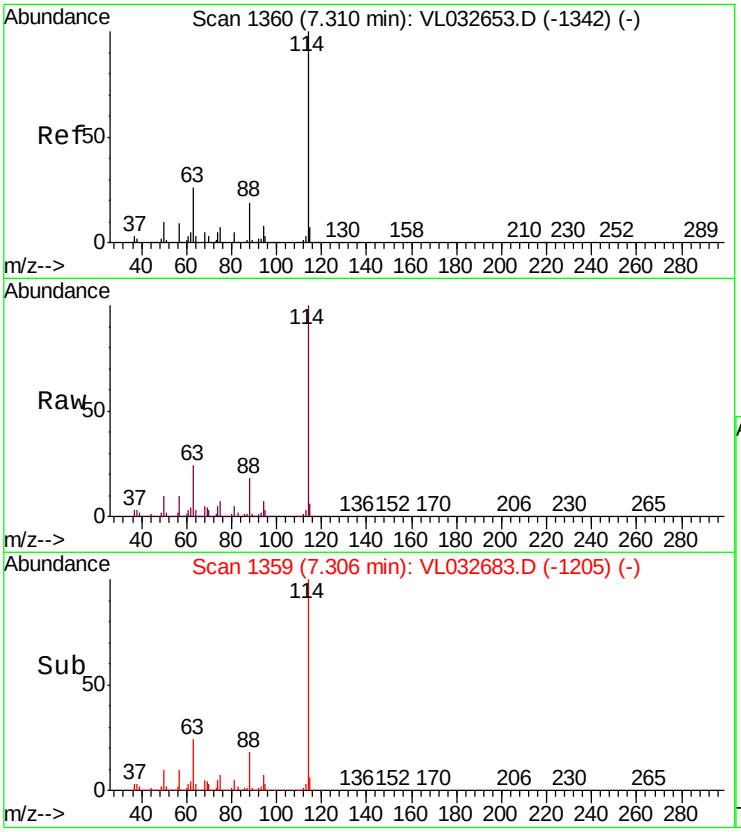


#32
1,1,1-Trichloroethane
Concen: 0.998 ppbv
RT: 6.63 min Scan# 1150
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 97 Resp: 254062

Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.0	78.0
61	51.0	40.7	61.1



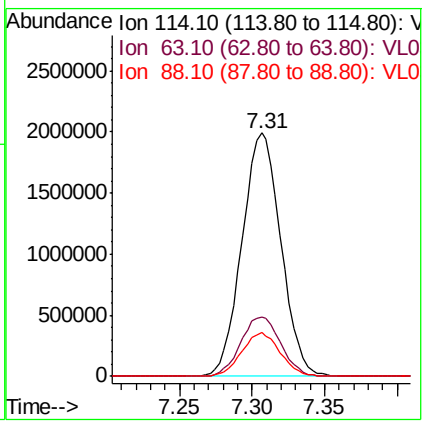


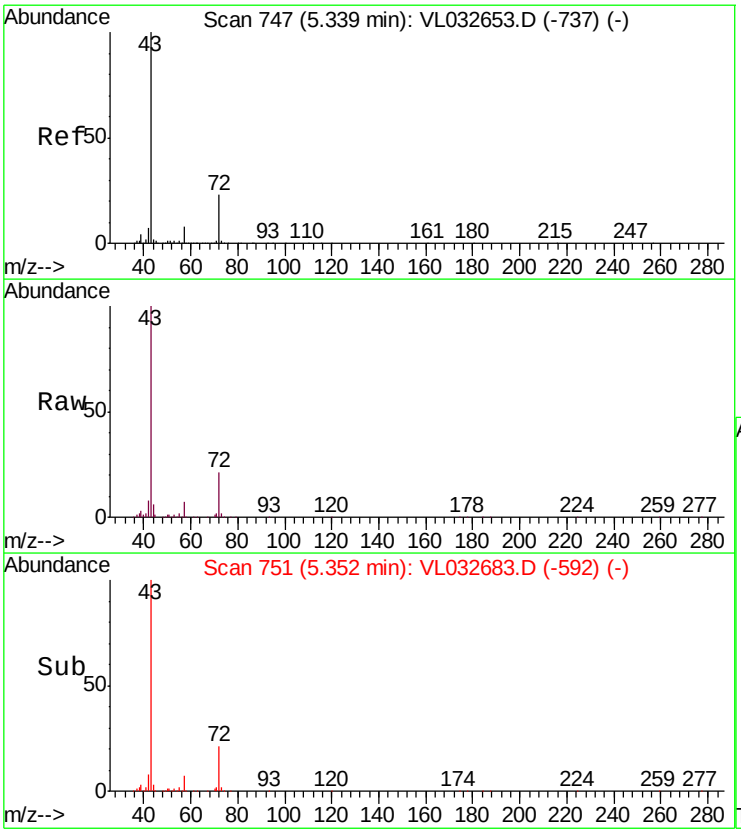
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:114 Resp: 3722684

Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	17.9	14.9	22.3

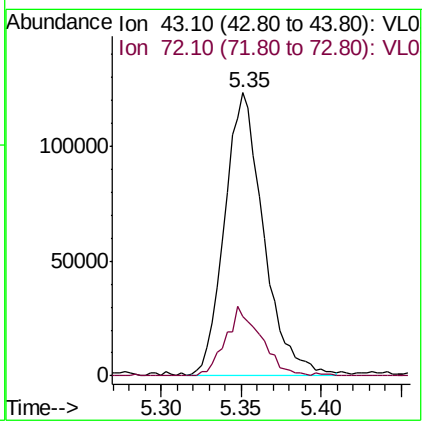


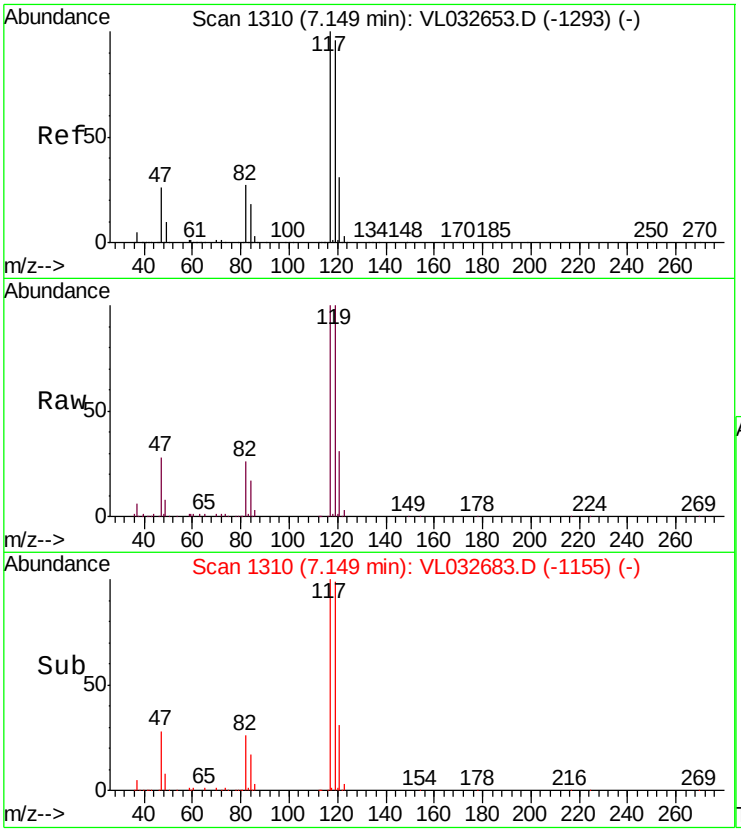


#34
2-Butanone
Concen: 1.020 ppbv
RT: 5.35 min Scan# 751
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 43 Resp: 203626

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.6	27.8



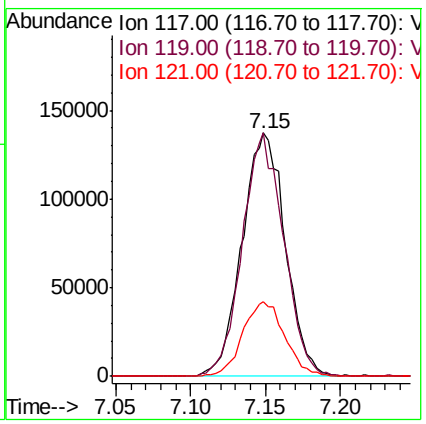


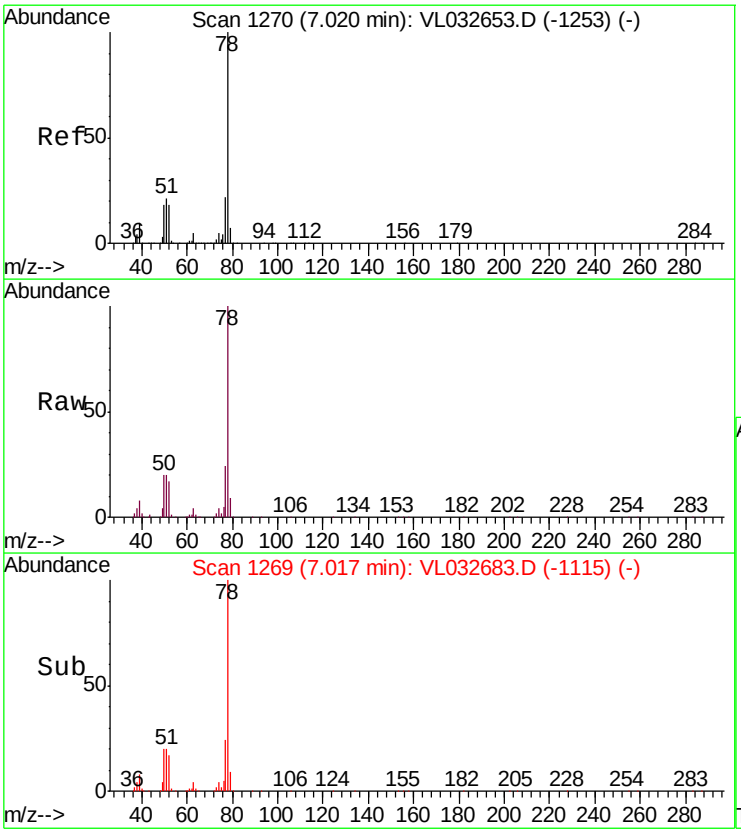
#35
Carbon Tetrachloride
Concen: 1.044 ppbv
RT: 7.15 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:117 Resp: 275854

Ion	Ratio	Lower	Upper
117	100		
119	100.0	75.7	113.5
121	30.6	24.7	37.1

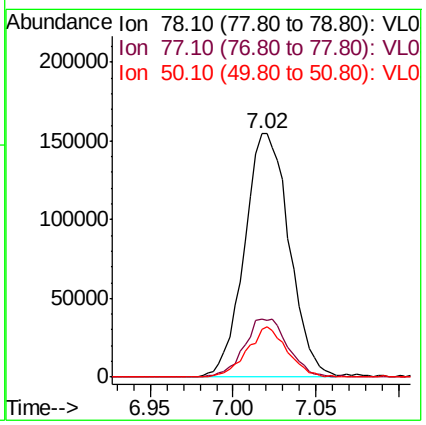


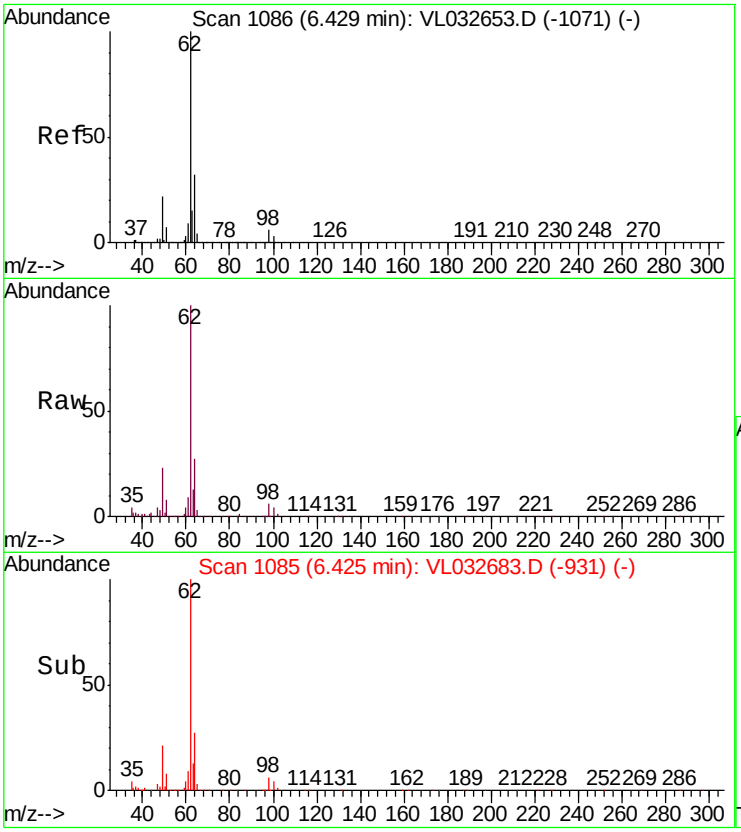


#36
Benzene
Concen: 0.962 ppbv
RT: 7.02 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 78 Resp: 290756

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.1	27.1
50	19.5	15.1	22.7



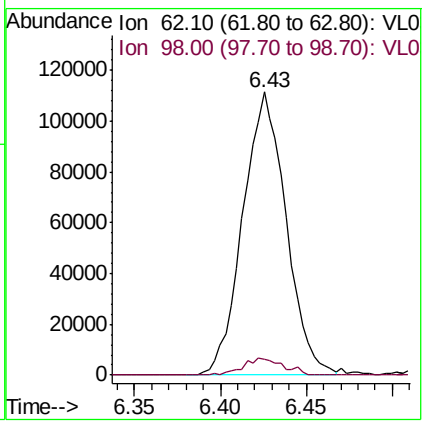


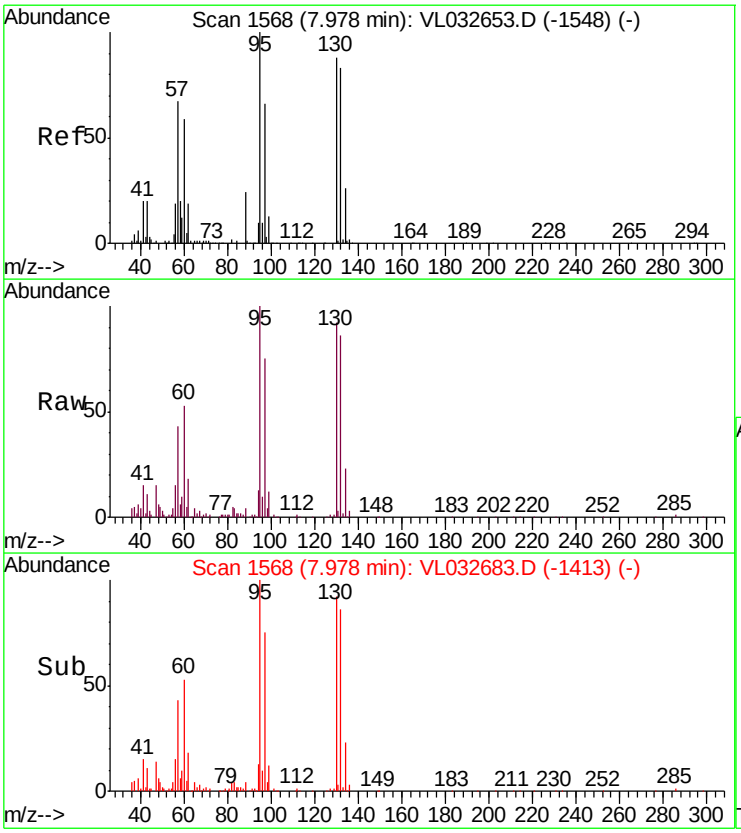
#37
1,2-Dichloroethane
Concen: 1.048 ppbv
RT: 6.43 min Scan# 1085
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 62 Resp: 194283

Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.4	6.6

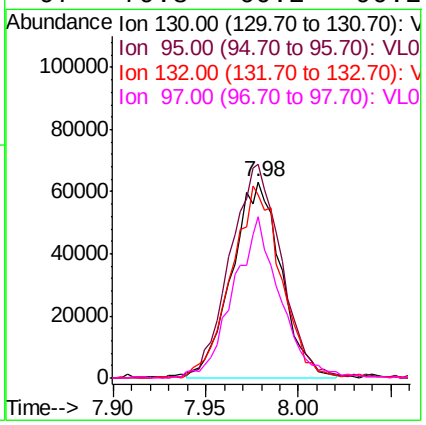


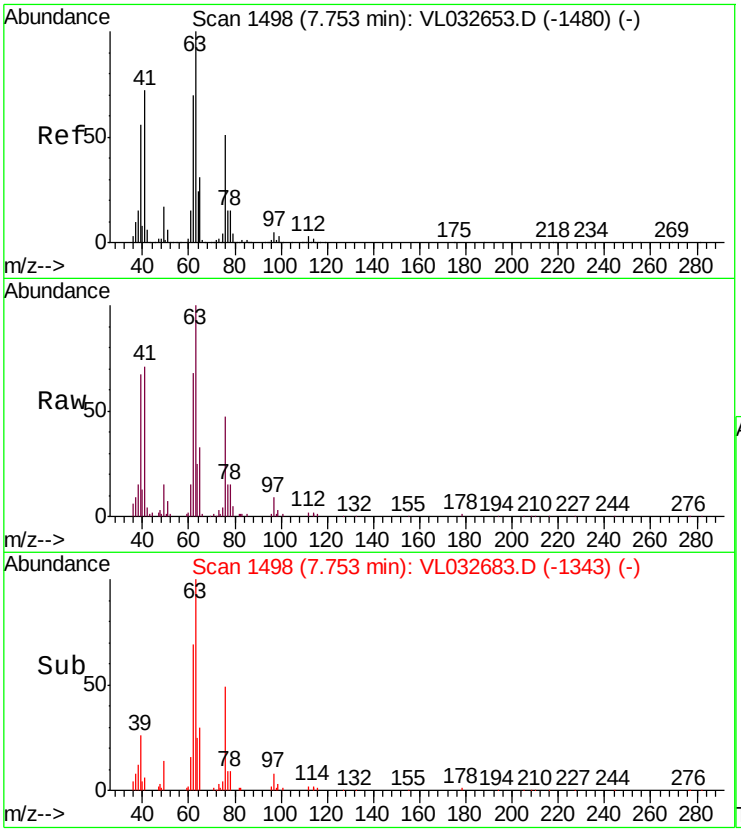


#38
Trichloroethene
Concen: 1.036 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:130 Resp: 115902

Ion	Ratio	Lower	Upper
130	100		
95	108.5	93.4	140.0
132	93.5	76.5	114.7
97	79.8	60.2	90.2



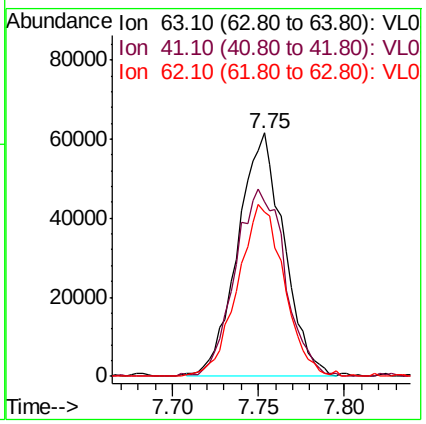


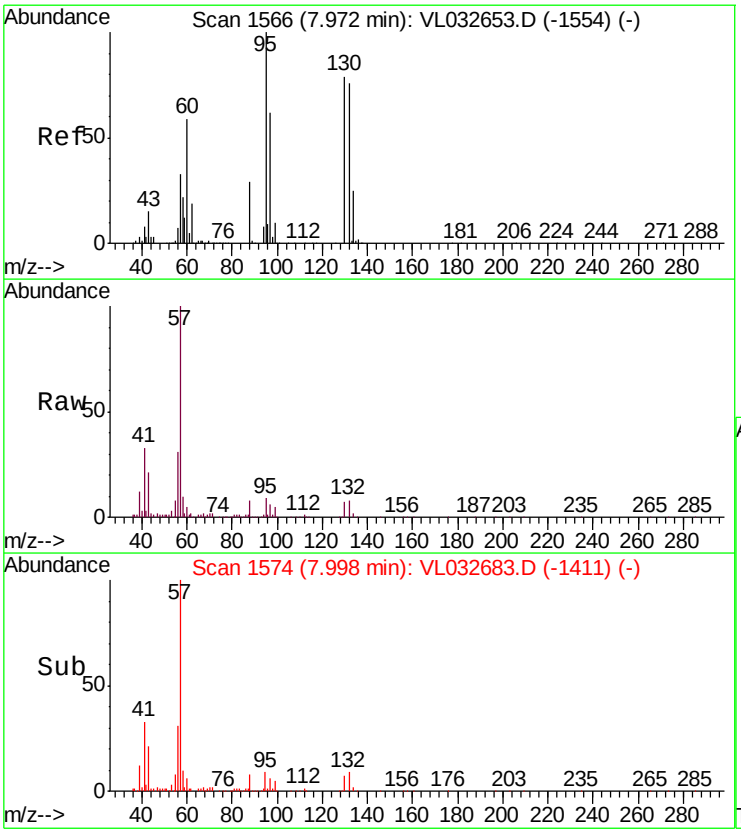
#39
1,2-Dichloropropane
Concen: 0.969 ppbv
RT: 7.75 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 63 Resp: 113132

Ion	Ratio	Lower	Upper
63	100		
41	70.8	56.2	84.4
62	67.1	54.4	81.6

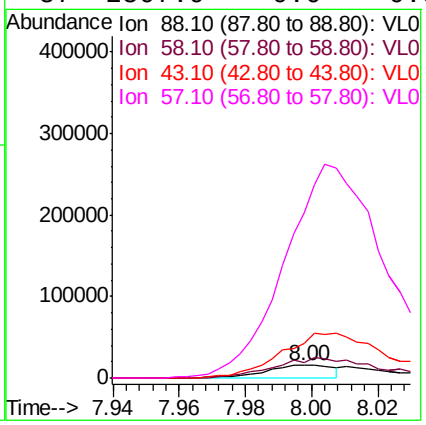


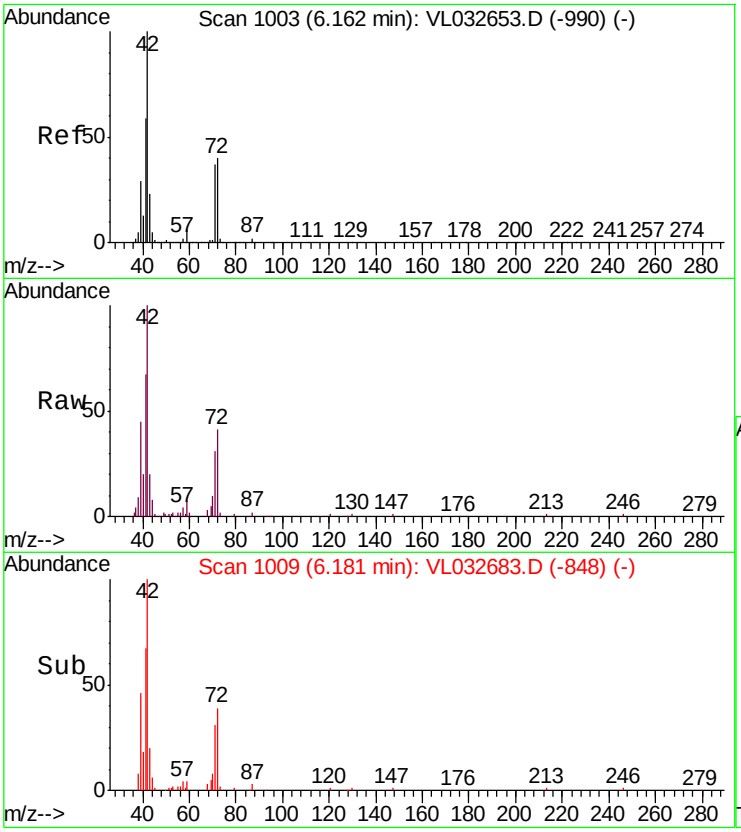


#40
1,4-Dioxane
Concen: 0.551 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.03 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 88 Resp: 21955

Ion	Ratio	Lower	Upper
88	100		
58	271.6	104.0	156.0#
43	549.8	0.0	0.0#
57	2507.9	0.0	0.0#



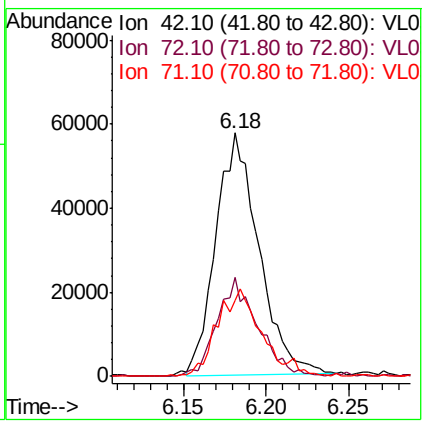


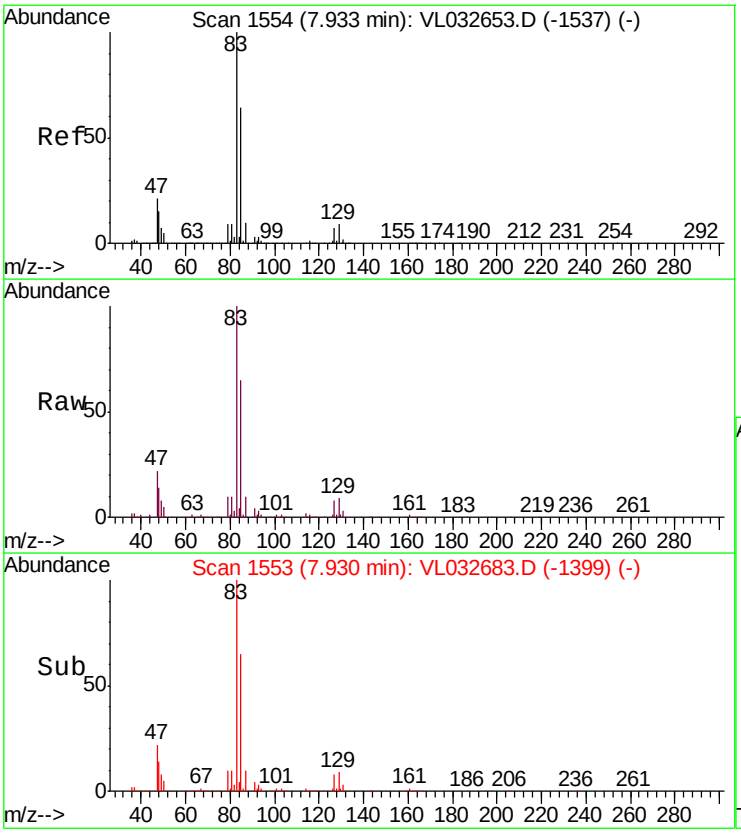
#41
Tetrahydrofuran
Concen: 0.931 ppbv
RT: 6.18 min Scan# 1009
Delta R.T. 0.02 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 42 Resp: 103562

Ion	Ratio	Lower	Upper
42	100		
72	38.7	32.4	48.6
71	37.4	31.3	46.9

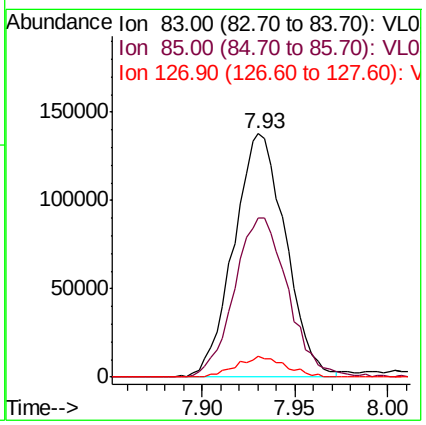


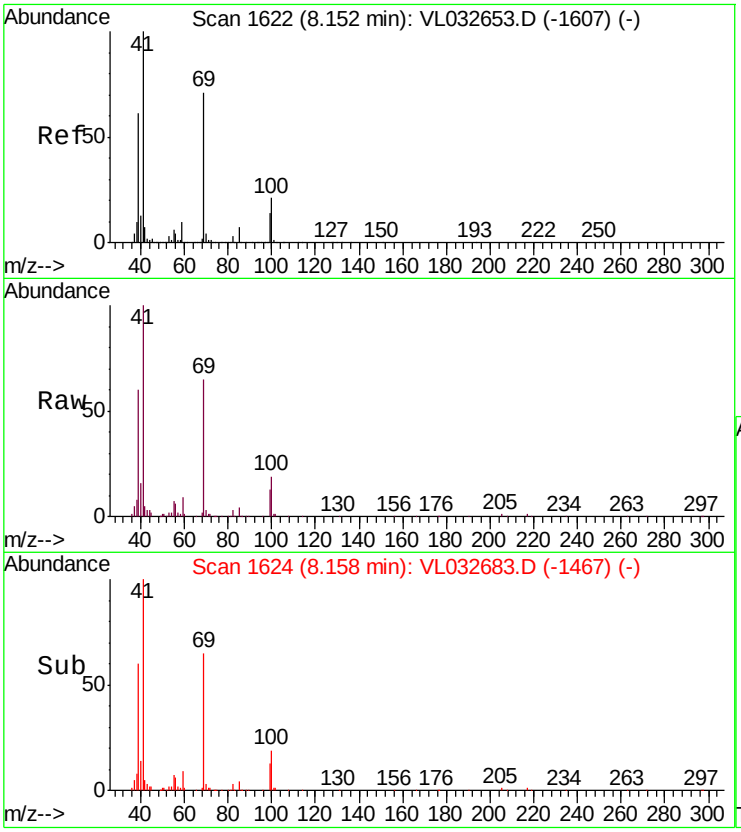


#42
Bromodichloromethane
Concen: 1.018 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 83 Resp: 264480

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.4	78.6
127	8.5	6.1	9.1



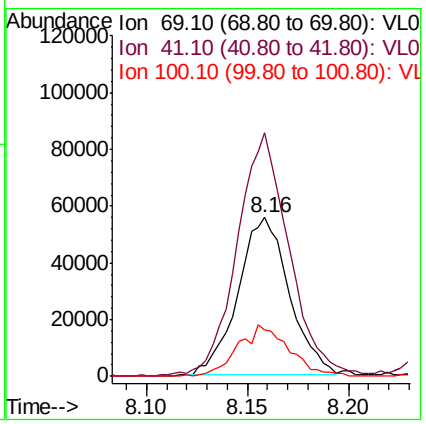


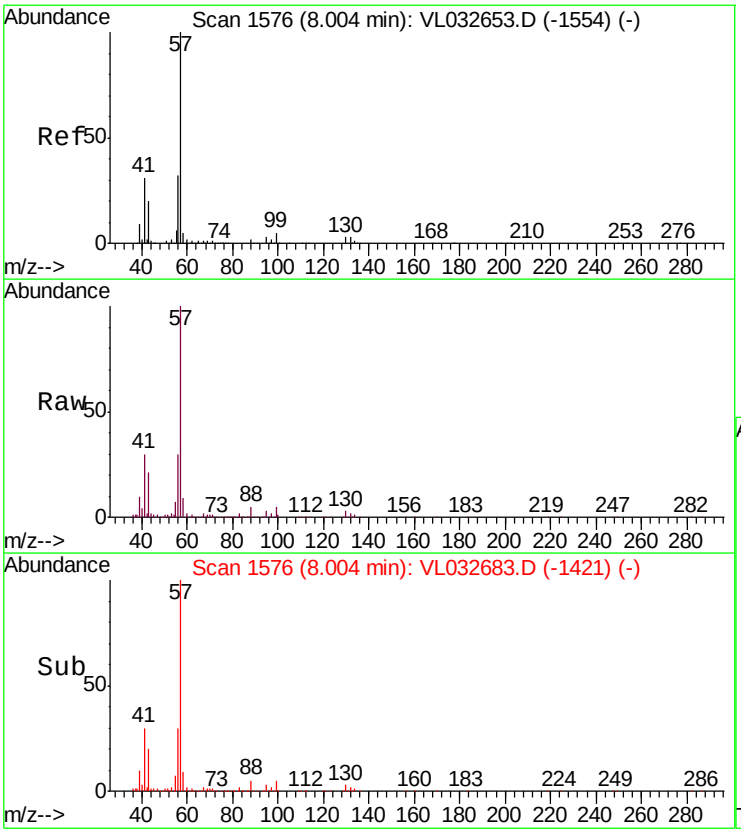
#43
Methyl Methacrylate
Concen: 0.889 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 69 Resp: 98521

Ion	Ratio	Lower	Upper
69	100		
41	155.8	113.2	169.8
100	32.8	24.4	36.6

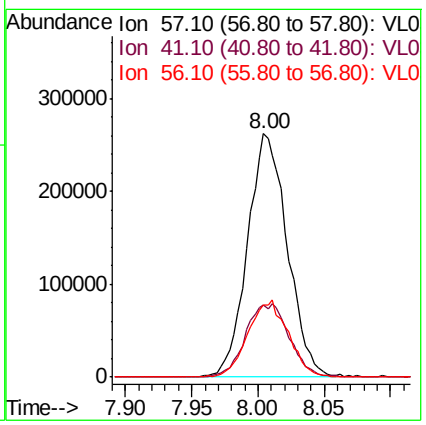


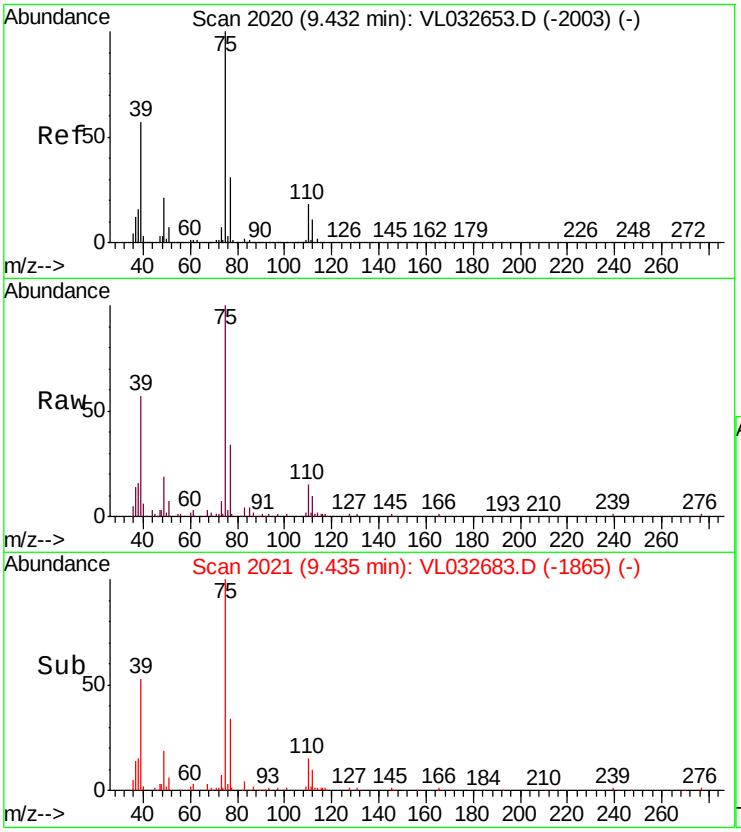


#44
2,2,4-Trimethylpentane
Concen: 1.061 ppbv
RT: 8.00 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 57 Resp: 547643

Ion	Ratio	Lower	Upper
57	100		
41	33.3	24.7	37.1
56	32.0	25.0	37.4



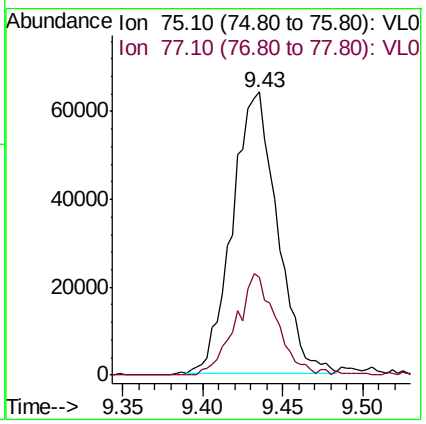


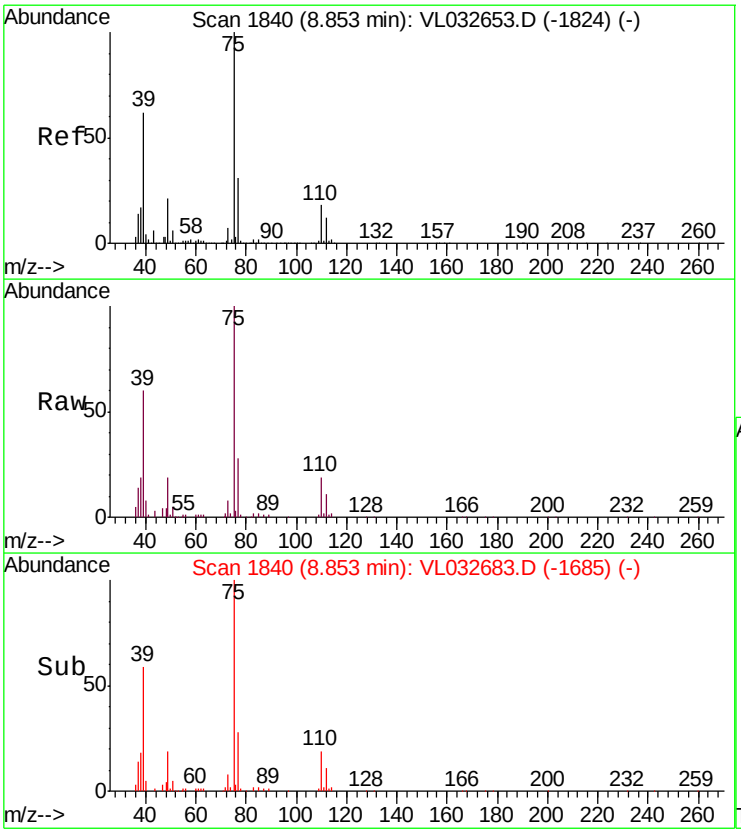
#45
t-1,3-Dichloropropene
Concen: 0.824 ppbv
RT: 9.43 min Scan# 2021
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 75 Resp: 122167

Ion	Ratio	Lower	Upper
75	100		
77	35.1	25.3	37.9

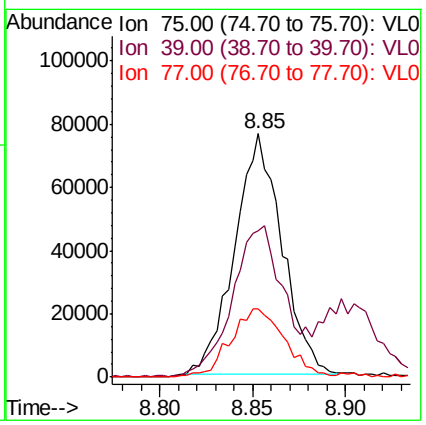


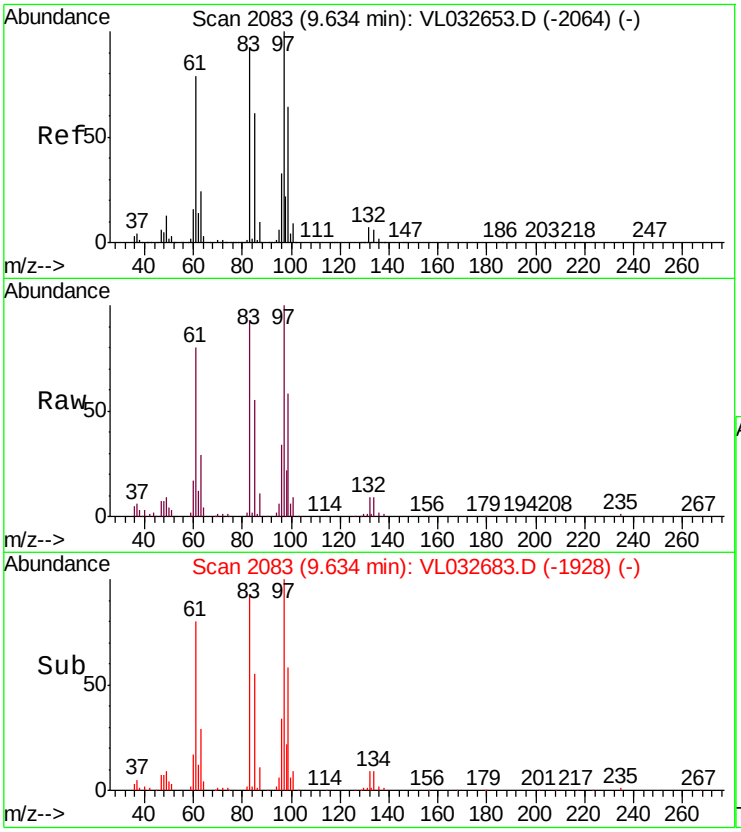


#46
cis-1,3-Dichloropropene
Concen: 0.798 ppbv
RT: 8.85 min Scan# 1840
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 75 Resp: 135272

Ion	Ratio	Lower	Upper
75	100		
39	58.2	50.9	76.3
77	27.6	25.8	38.6



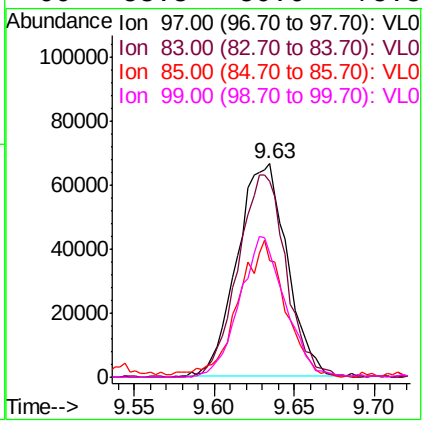


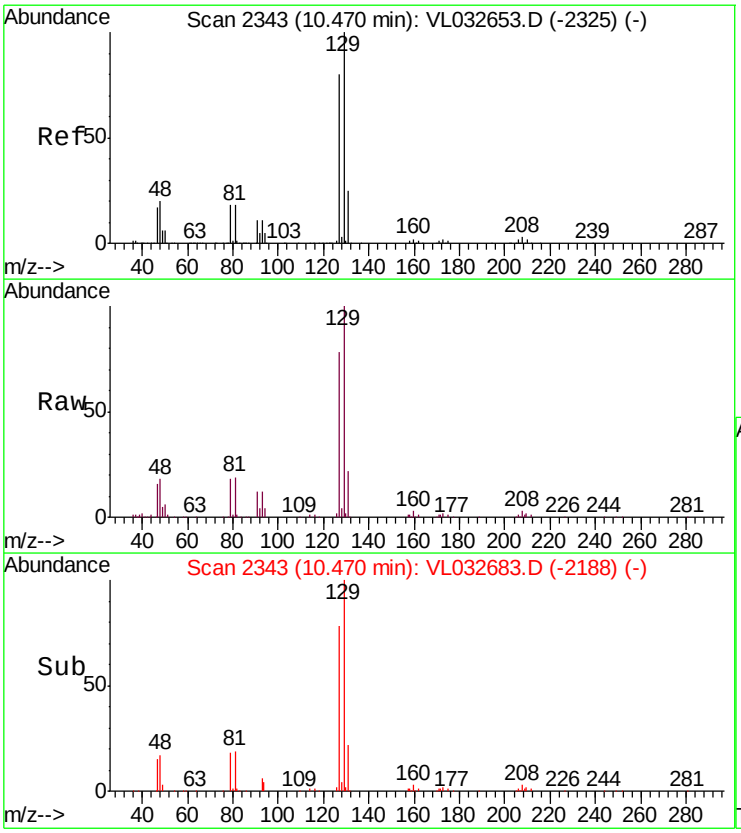
#47
1,1,2-Trichloroethane
Concen: 1.029 ppbv
RT: 9.63 min Scan# 2083
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 97 Resp: 141972

Ion	Ratio	Lower	Upper
97	100		
83	91.7	73.5	110.3
85	54.2	45.8	68.6
99	58.3	50.6	75.8

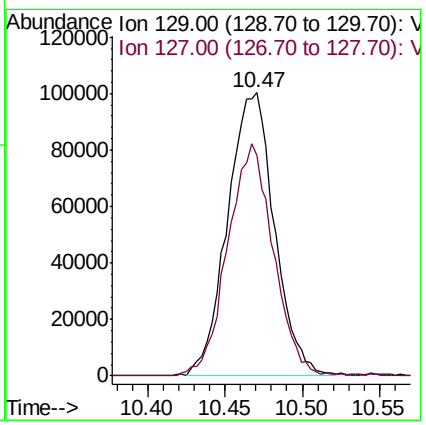


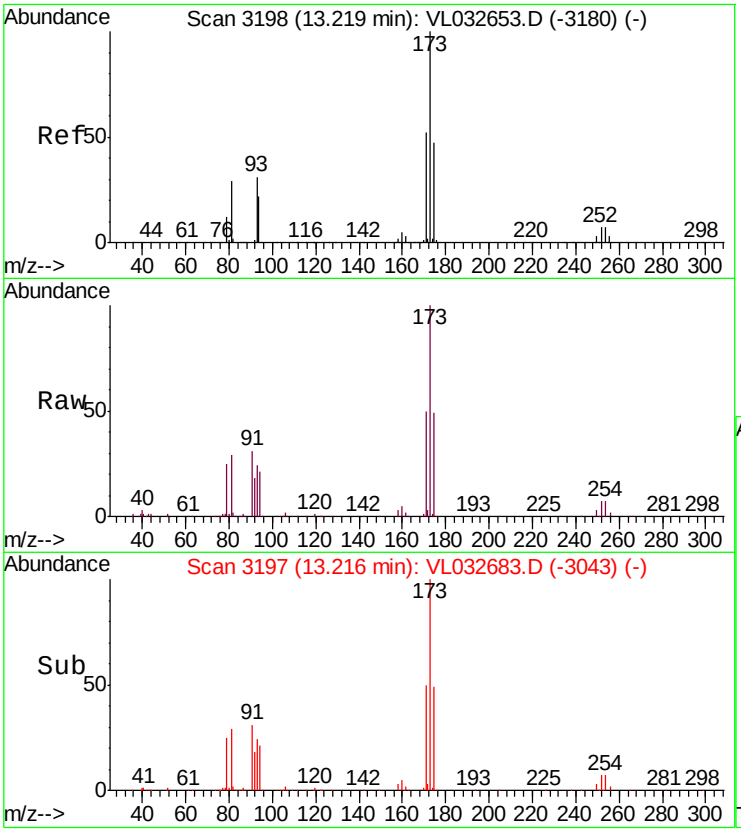


#48
Dibromochloromethane
Concen: 0.921 ppbv
RT: 10.47 min Scan# 2343
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:129 Resp: 211729

Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.1	117.5



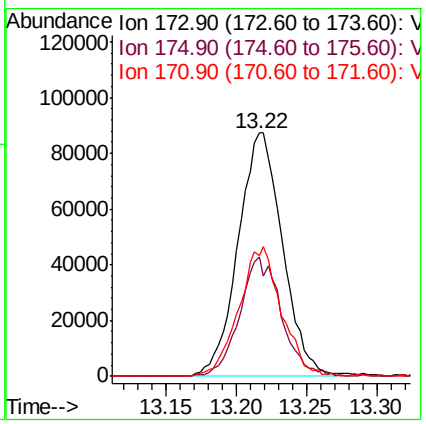


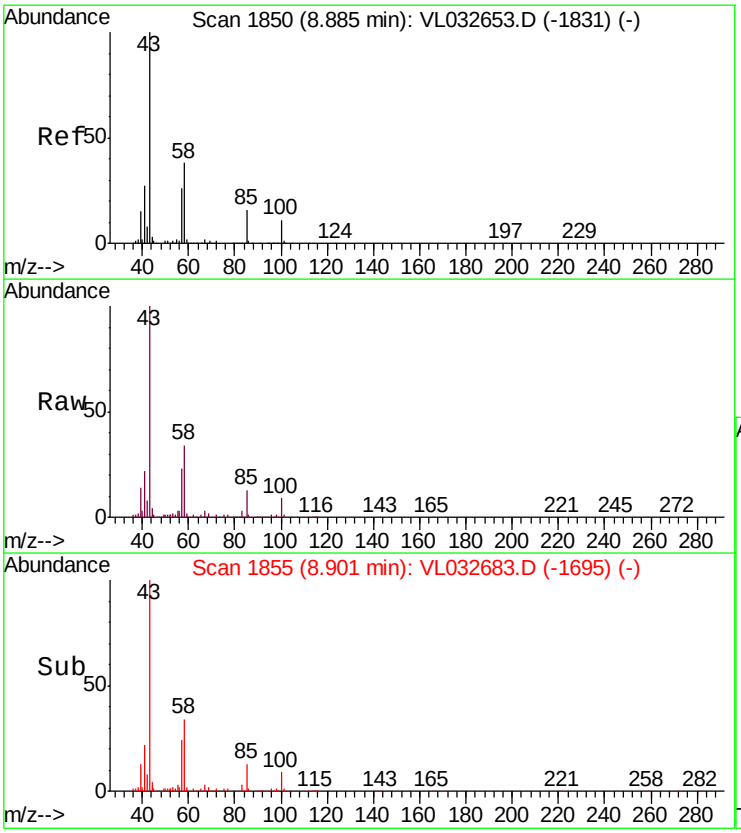
#49
Bromoform
Concen: 1.064 ppbv
RT: 13.22 min Scan# 3197
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:173 Resp: 192153

Ion	Ratio	Lower	Upper
173	100		
175	46.2	39.0	58.4
171	50.9	42.2	63.2

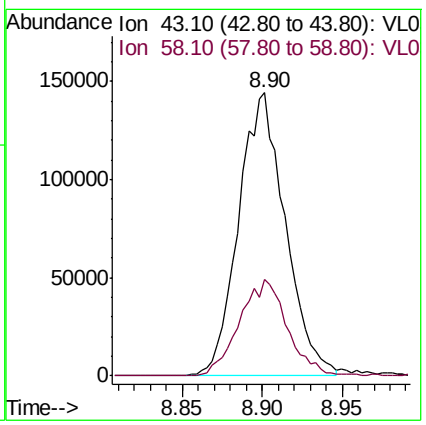


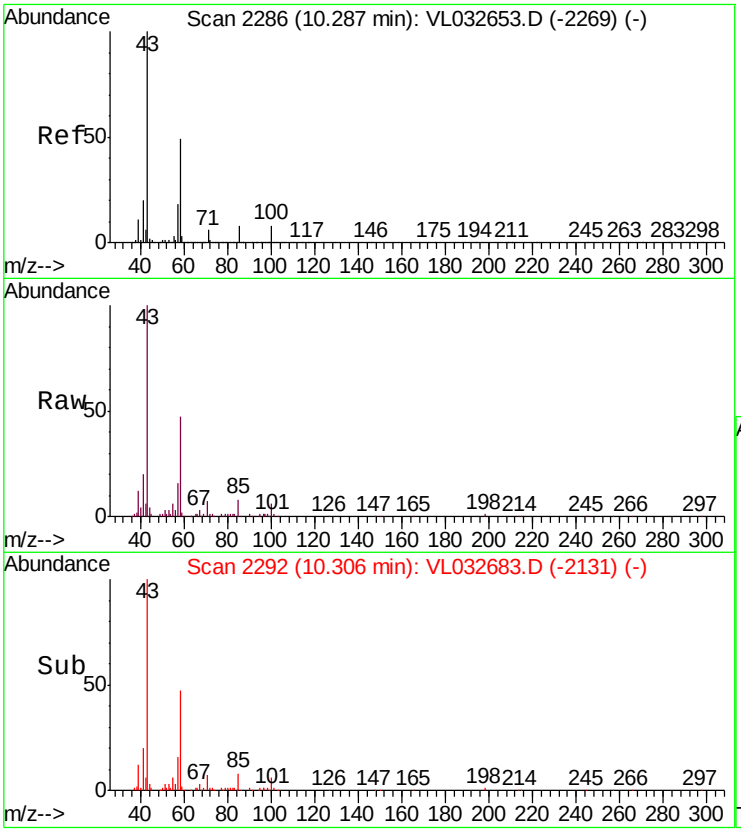


#50
4-Methyl-2-Pentanone
Concen: 0.975 ppbv
RT: 8.90 min Scan# 1855
Delta R.T. 0.02 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 43 Resp: 288170

Ion	Ratio	Lower	Upper
43	100		
58	35.3	29.7	44.5



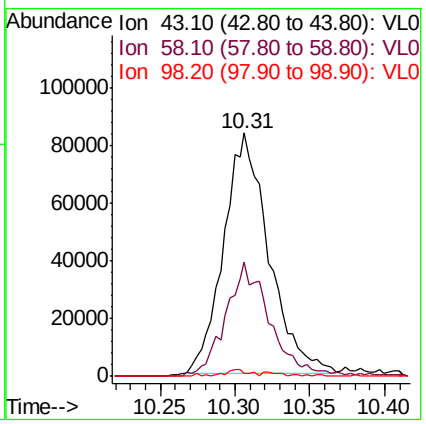


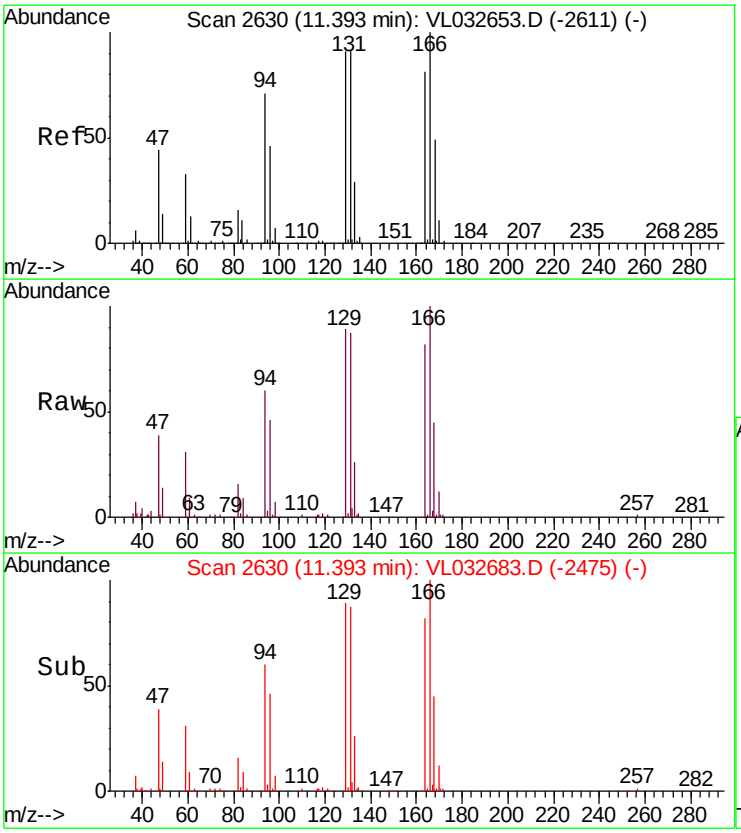
#51
2-Hexanone
Concen: 0.801 ppbv
RT: 10.31 min Scan# 2292
Delta R.T. 0.02 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Tgt Ion: 43 Resp: 175930

Ion	Ratio	Lower	Upper
43	100		
58	46.1	40.4	60.6
98	2.5	0.4	0.6#

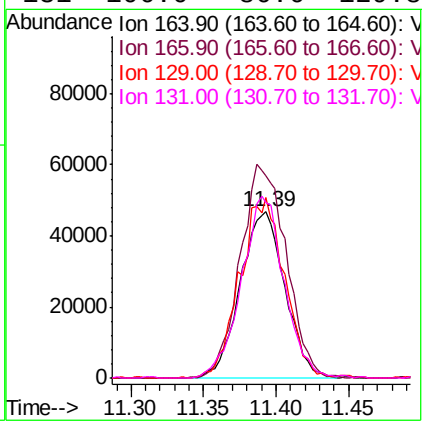


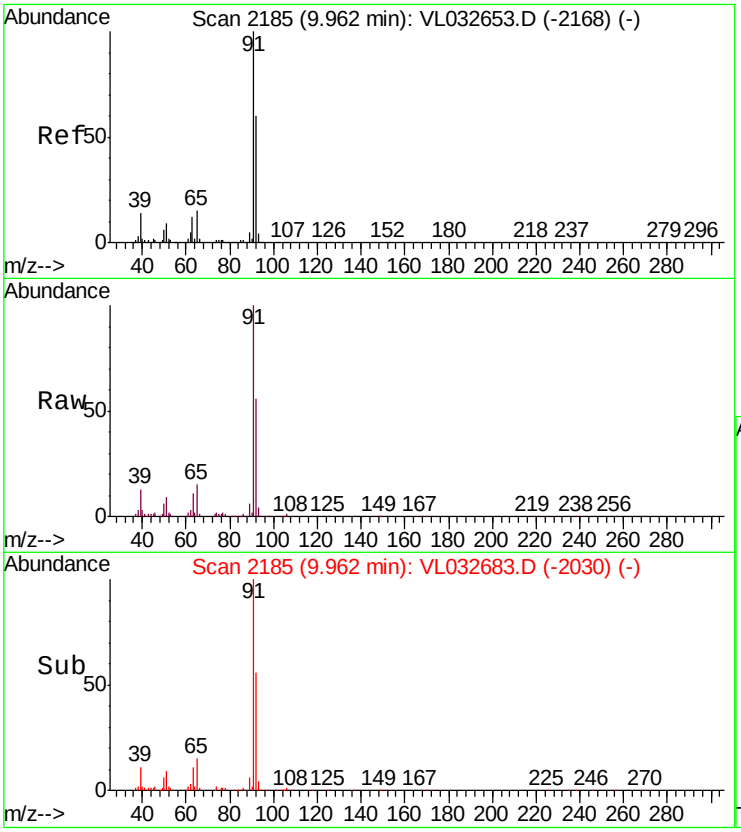


#52
Tetrachloroethene
Concen: 0.952 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:164 Resp: 100347

Ion	Ratio	Lower	Upper
164	100		
166	121.8	100.5	150.7
129	109.0	90.0	135.0
131	106.0	86.6	129.8



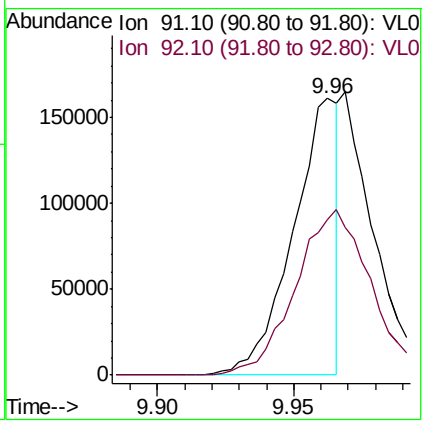


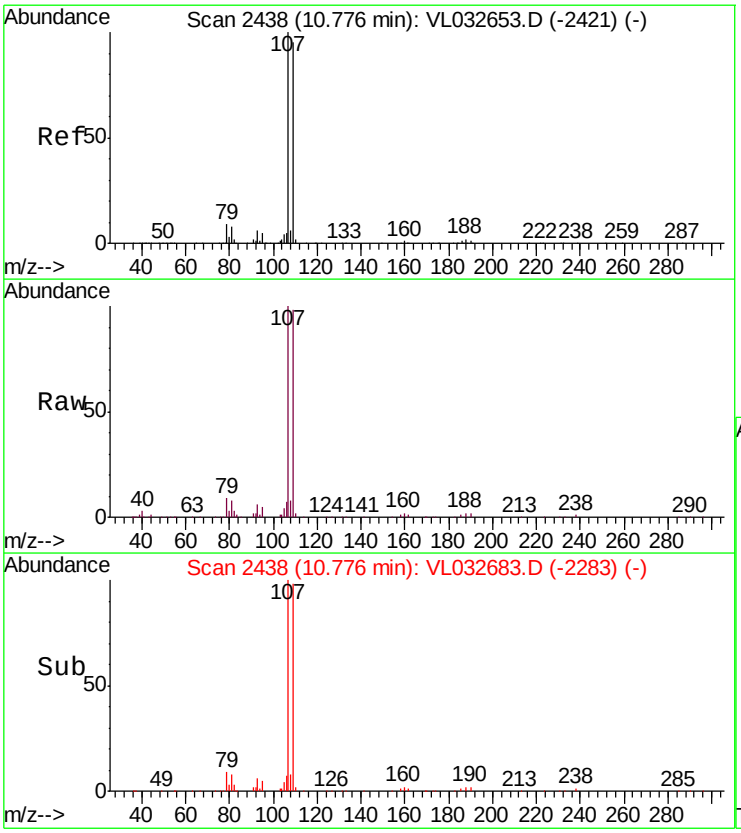
#53
Toluene
Concen: 0.529 ppbv
RT: 9.96 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 91 Resp: 183340

Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.4	72.6#

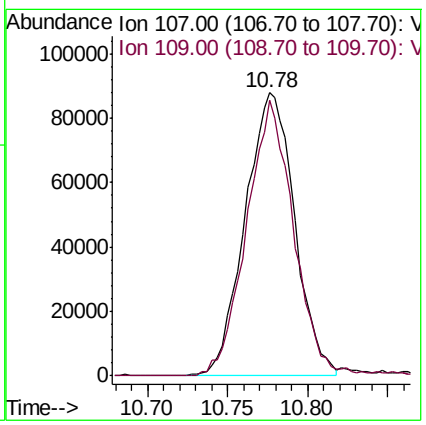


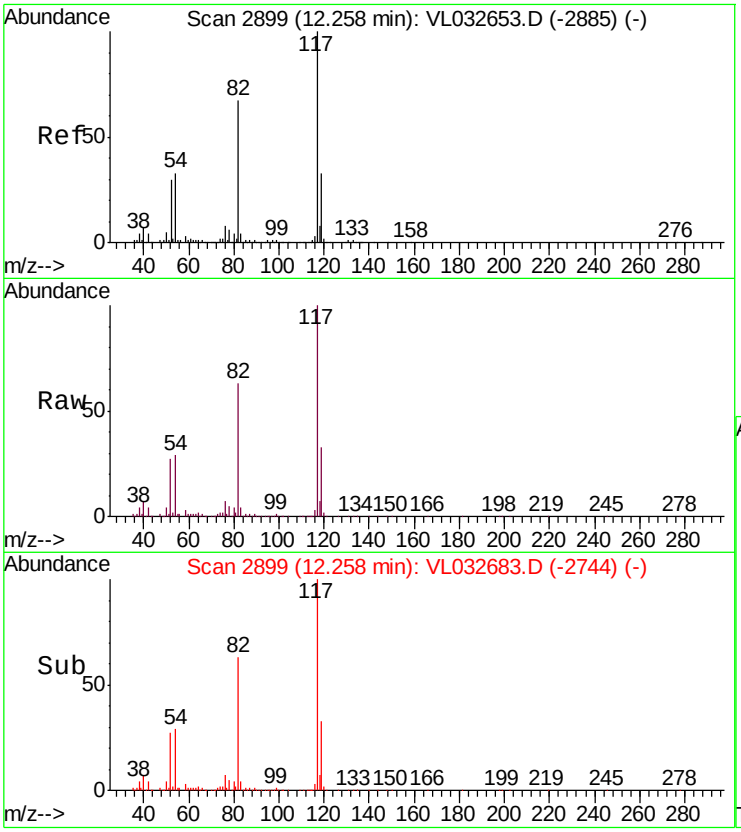


#54
1,2-Dibromoethane
Concen: 0.995 ppbv
RT: 10.78 min Scan# 2438
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:107 Resp: 186616

Ion	Ratio	Lower	Upper
107	100		
109	97.6	75.3	112.9



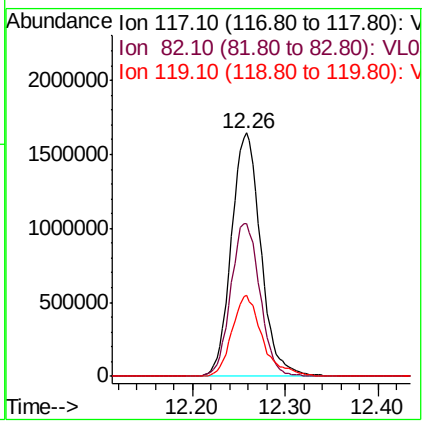


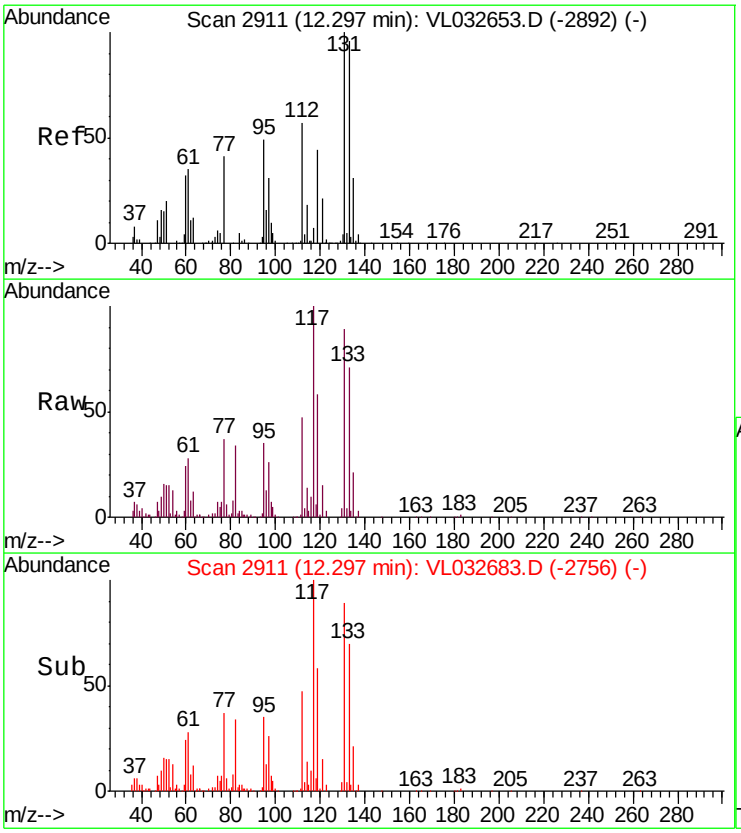
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:117 Resp: 3627233

Ion	Ratio	Lower	Upper
117	100		
82	62.3	52.7	79.1
119	34.4	26.7	40.1

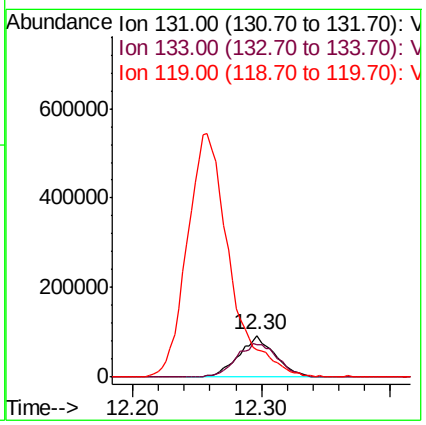


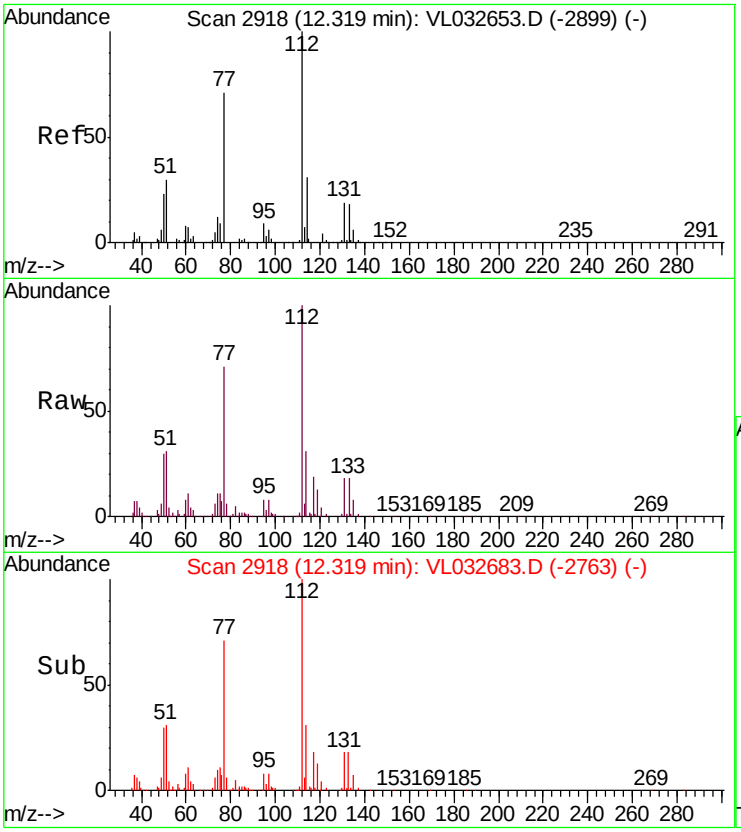


#56
1,1,1,2-Tetrachloroethane
Concen: 1.130 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:131 Resp: 179306

Ion	Ratio	Lower	Upper
131	100		
133	93.7	75.4	113.2
119	695.8	49.1	73.7#



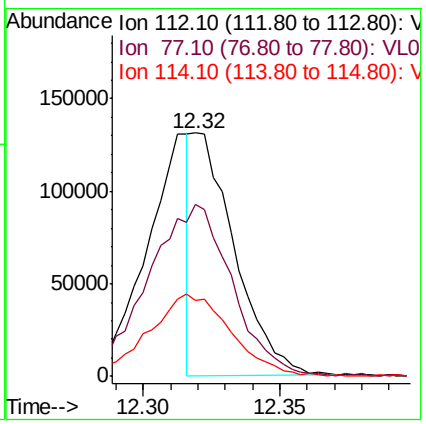


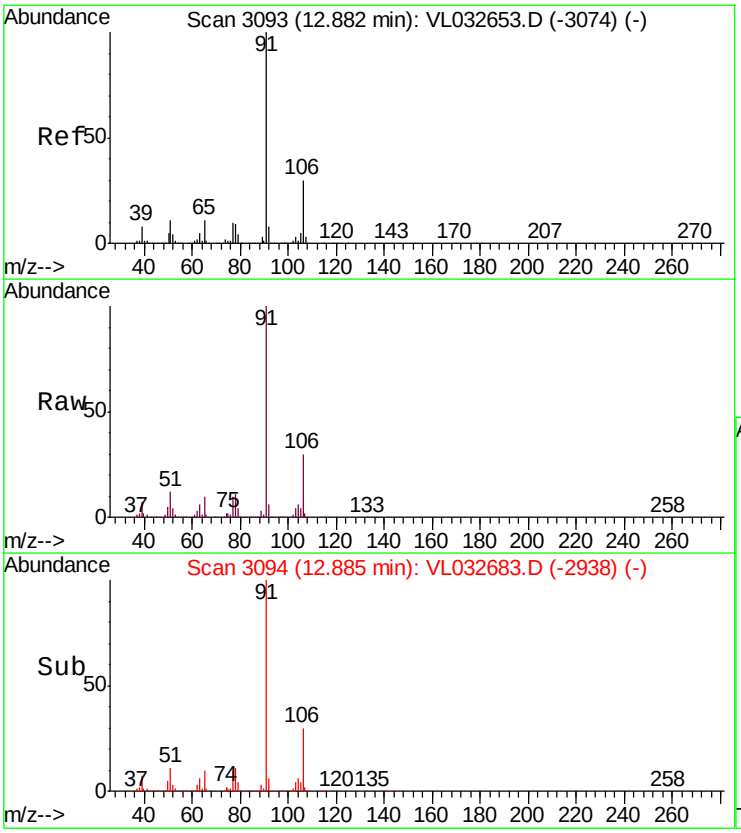
#57
Chlorobenzene
Concen: 0.528 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Tgt Ion:112 Resp: 140773

Ion	Ratio	Lower	Upper
112	100		
77	70.9	56.8	85.2
114	30.7	30.3	37.1

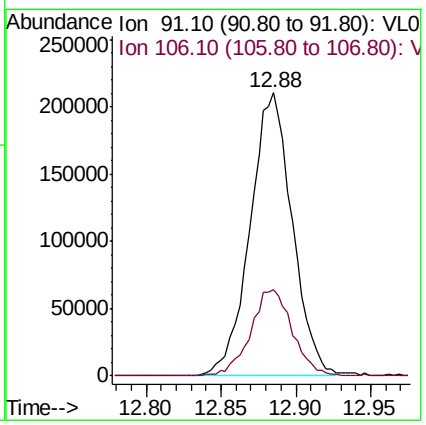


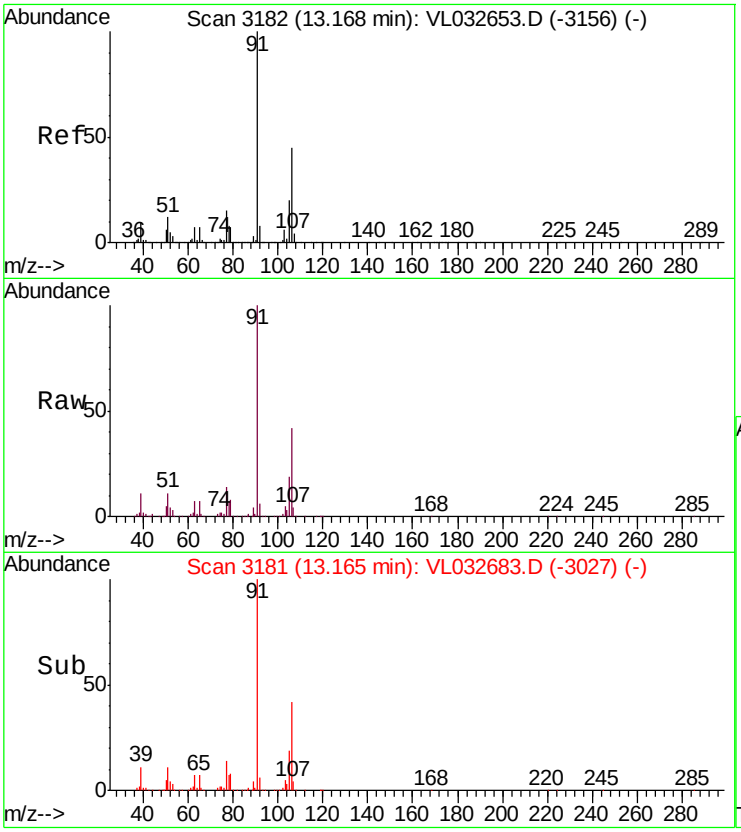


#58
Ethyl Benzene
Concen: 0.978 ppbv
RT: 12.88 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 91 Resp: 411963

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.2



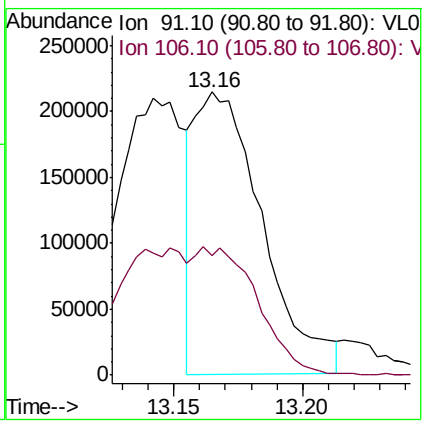


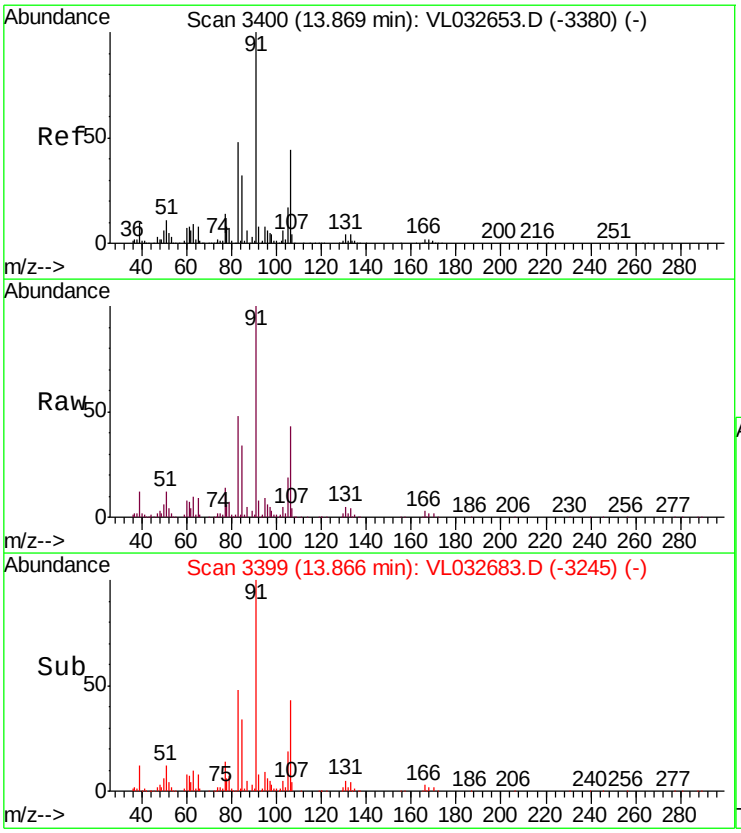
#59
m/p-Xylene
Concen: 1.041 ppbv
RT: 13.16 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 91 Resp: 390585

Ion	Ratio	Lower	Upper
91	100		
106	90.5	35.9	53.9#

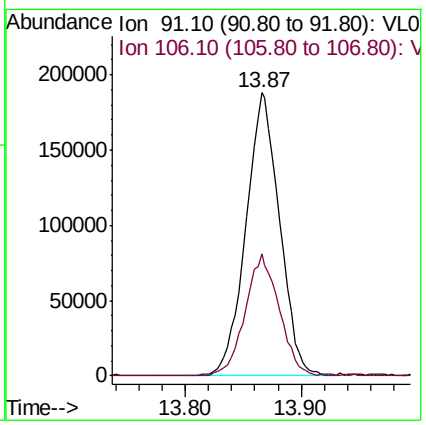


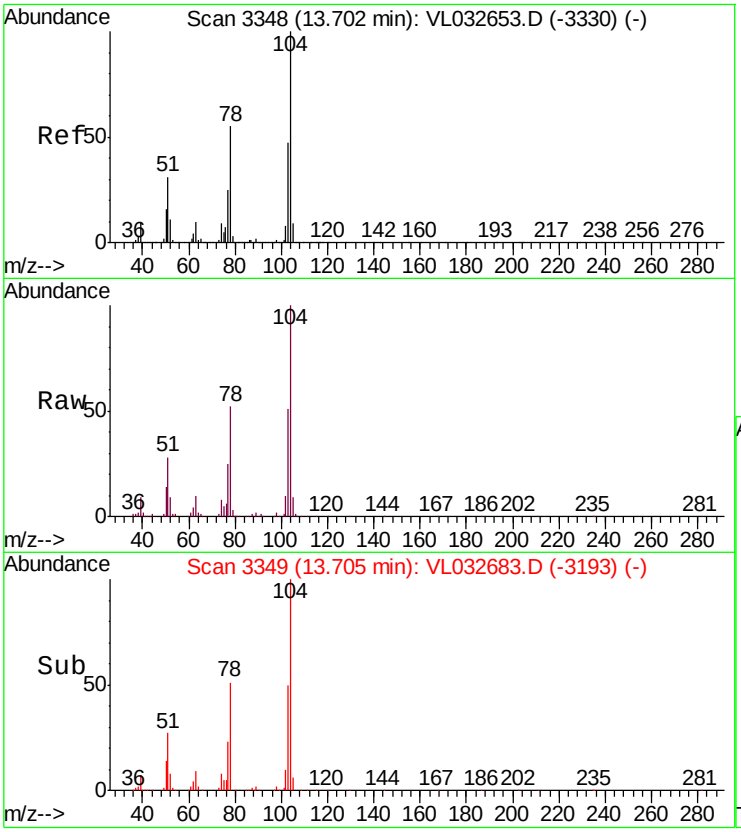


#60
o-Xylene
Concen: 1.053 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 91 Resp: 381095

Ion	Ratio	Lower	Upper
91	100		
106	43.3	22.1	66.1



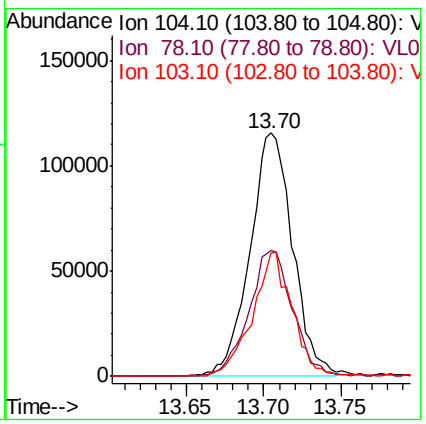


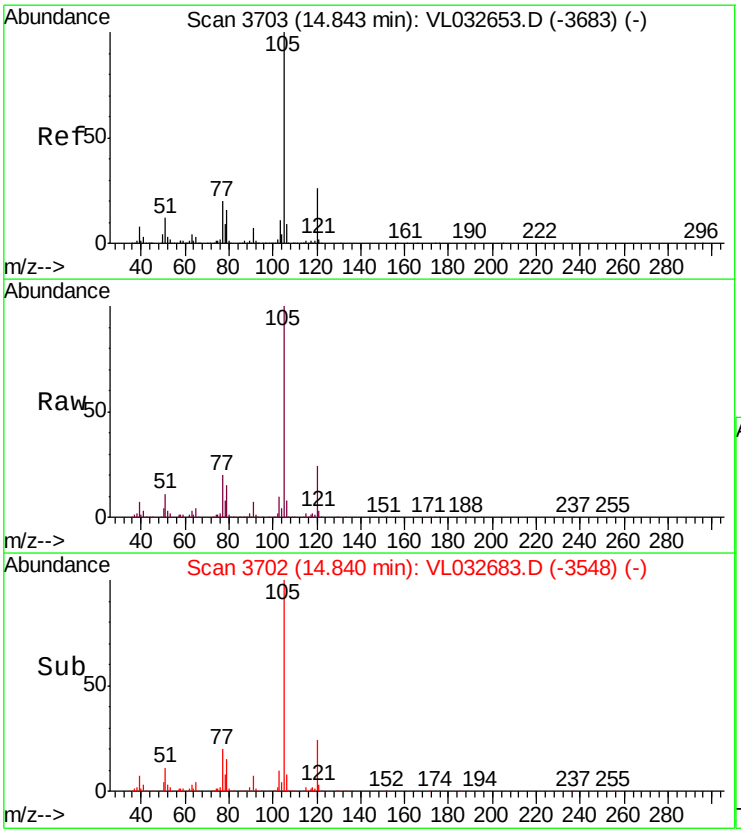
#61
Styrene
Concen: 0.917 ppbv
RT: 13.70 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:104 Resp: 222463

Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.8	64.2
103	47.8	37.4	56.0

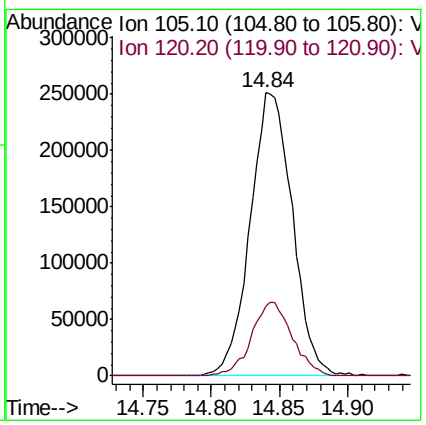


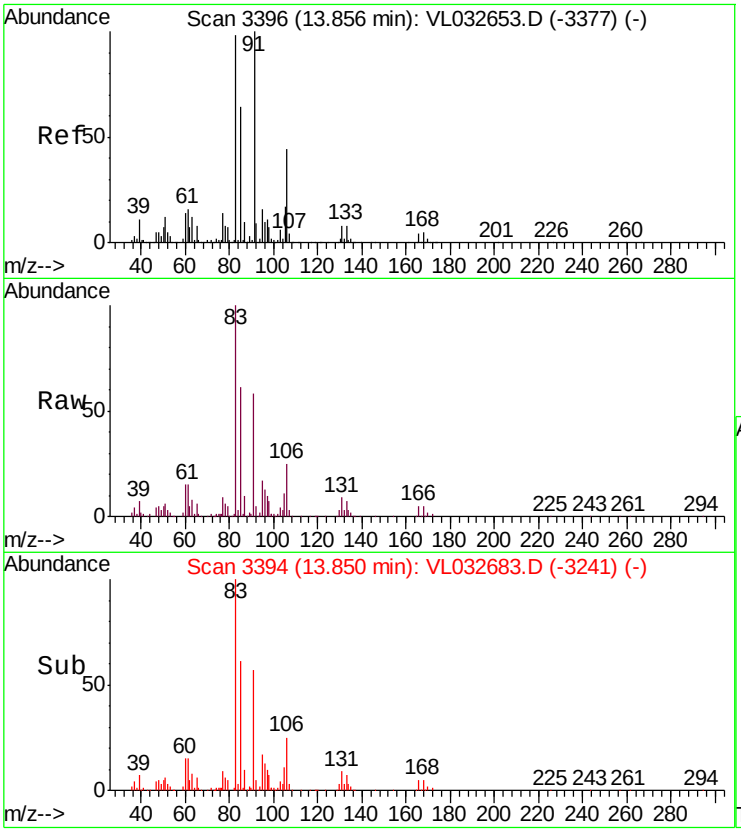


#62
Isopropylbenzene
Concen: 1.052 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:105 Resp: 538953

Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.5	30.7



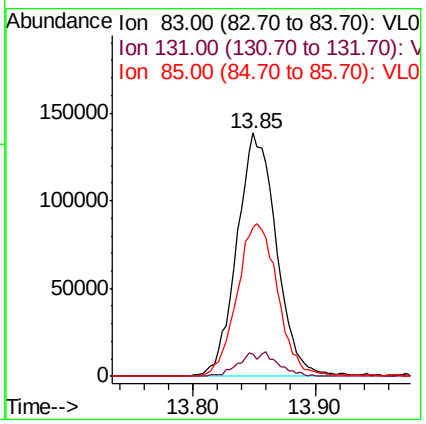


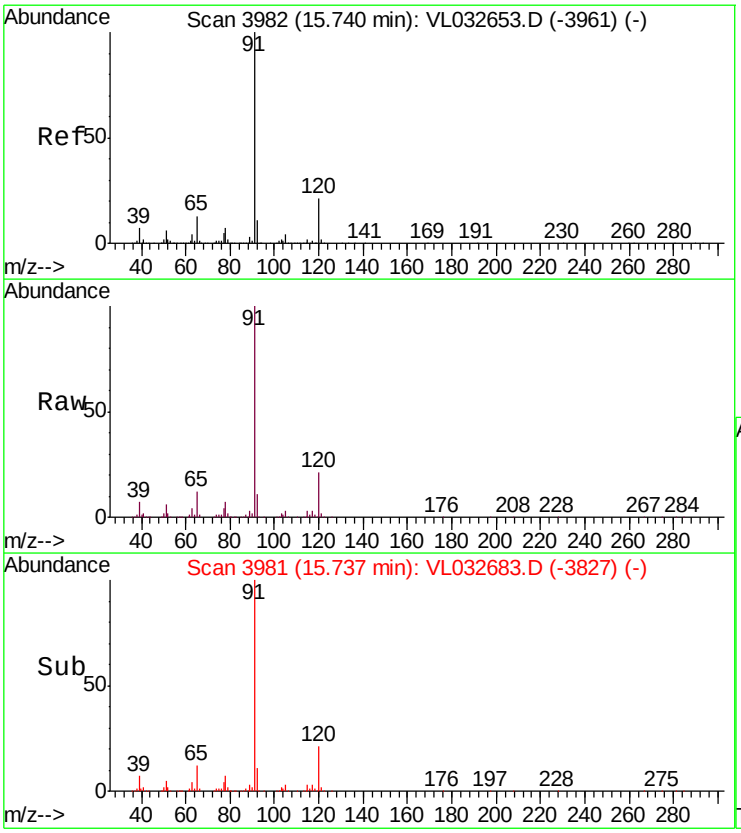
#63
1,1,2,2-Tetrachloroethane
Concen: 1.089 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion: 83 Resp: 308764

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.3	12.9
85	65.8	32.3	96.9

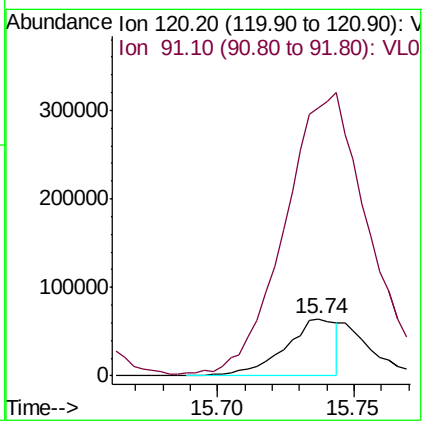


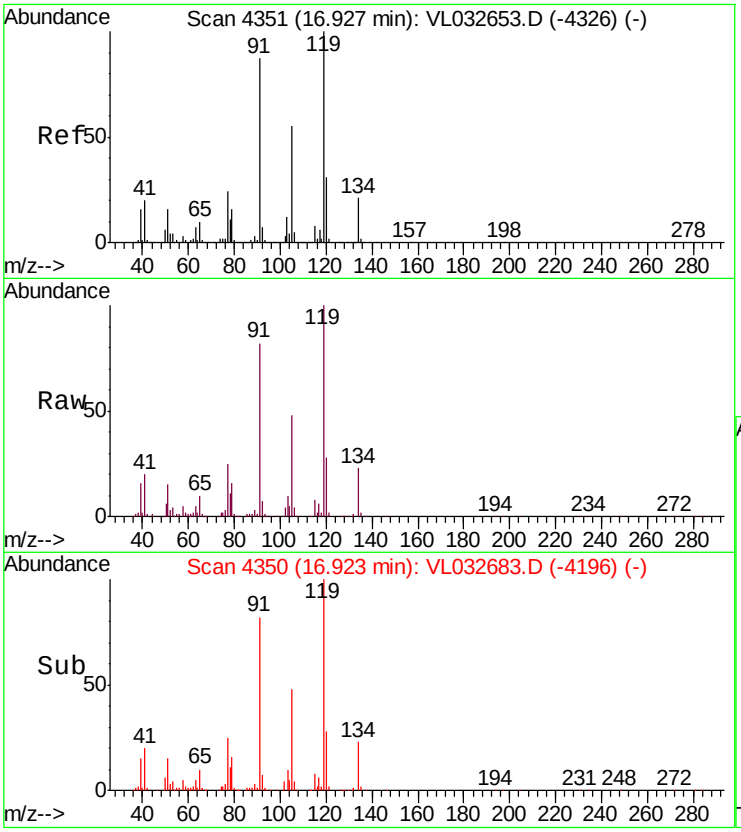


#64
n-propylbenzene
Concen: 0.662 ppbv
RT: 15.74 min Scan# 3981
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:120 Resp: 84324

Ion	Ratio	Lower	Upper
120	100		
91	814.4	390.2	585.2#



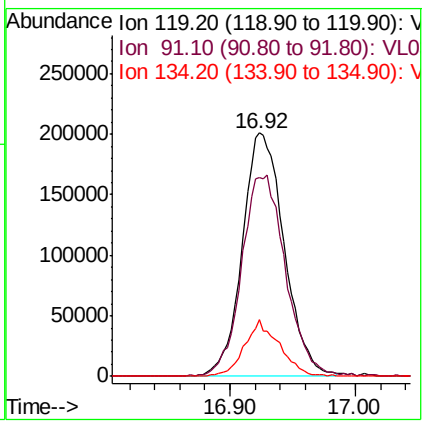


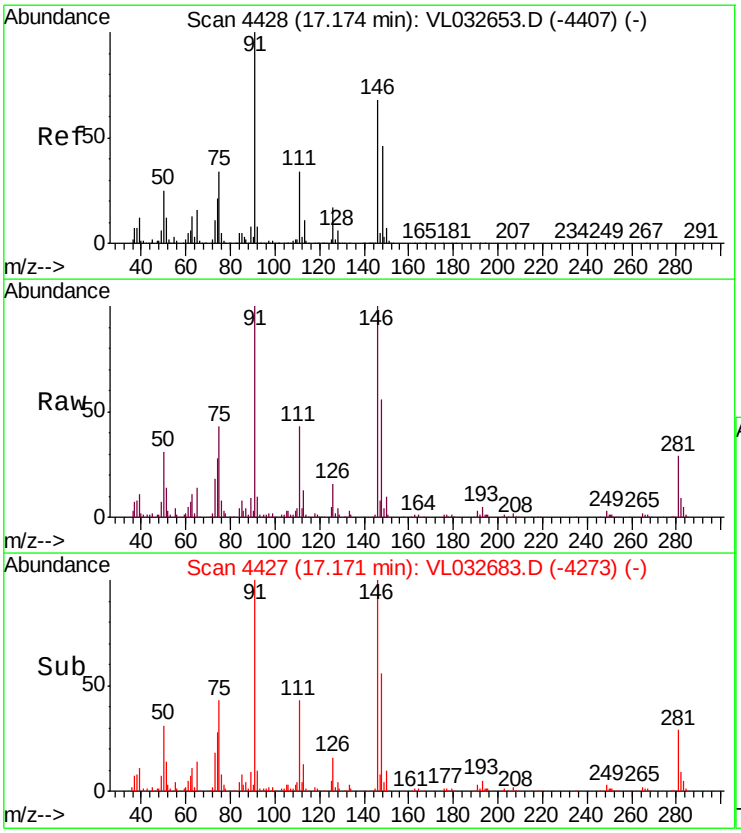
#65
tert-Butylbenzene
Concen: 1.066 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:119 Resp: 465150

Ion	Ratio	Lower	Upper
119	100		
91	87.3	67.8	101.8
134	19.6	15.8	23.8

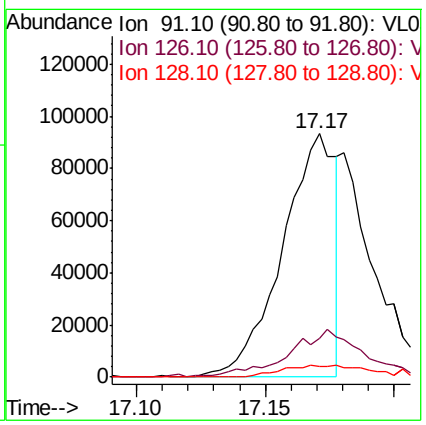


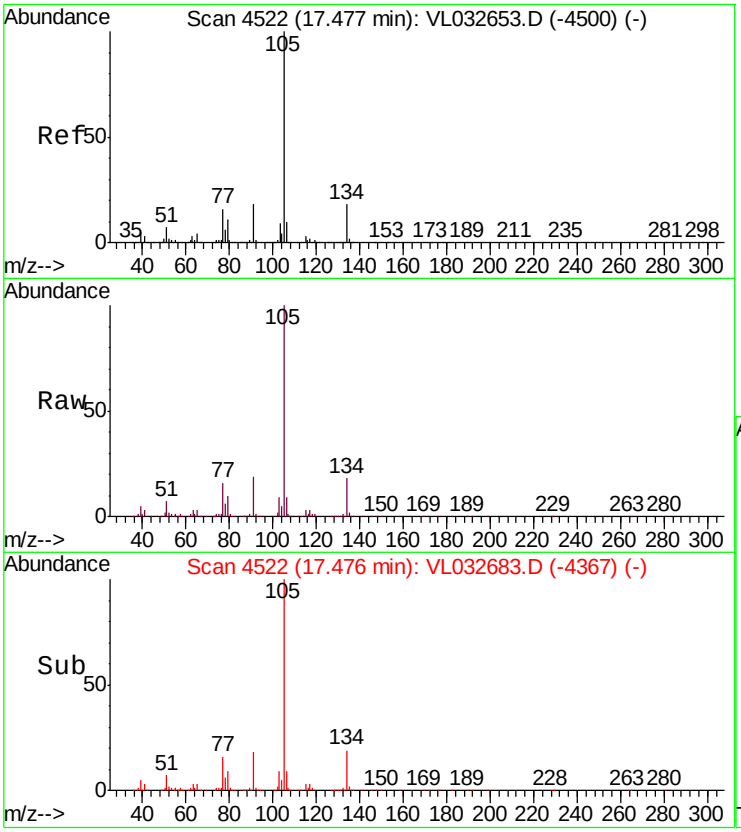


#66
Benzyl Chloride
Concen: 0.588 ppbv
RT: 17.17 min Scan# 4427
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 91 Resp: 132473

Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.9	20.9#
128	0.0	4.3	6.5#



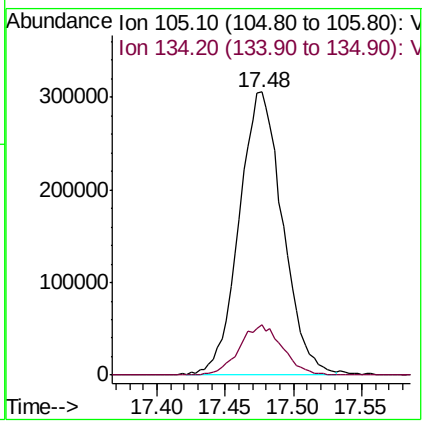


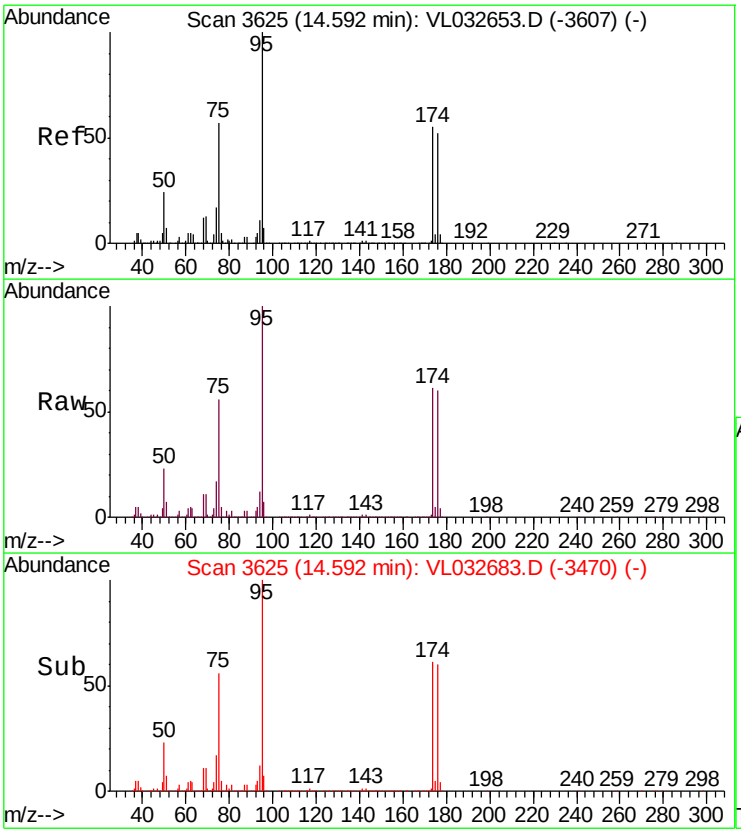
#67
sec-Butylbenzene
Concen: 1.089 ppbv
RT: 17.48 min Scan# 4522
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:105 Resp: 675676

Ion	Ratio	Lower	Upper
105	100		
134	17.6	14.2	21.2

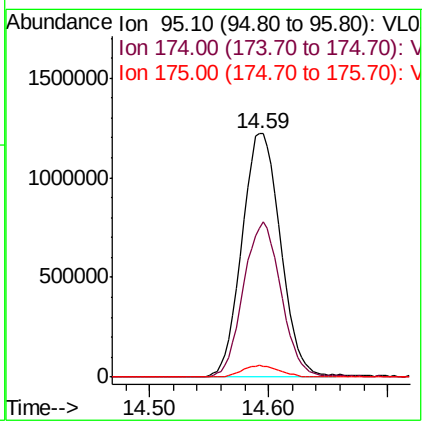


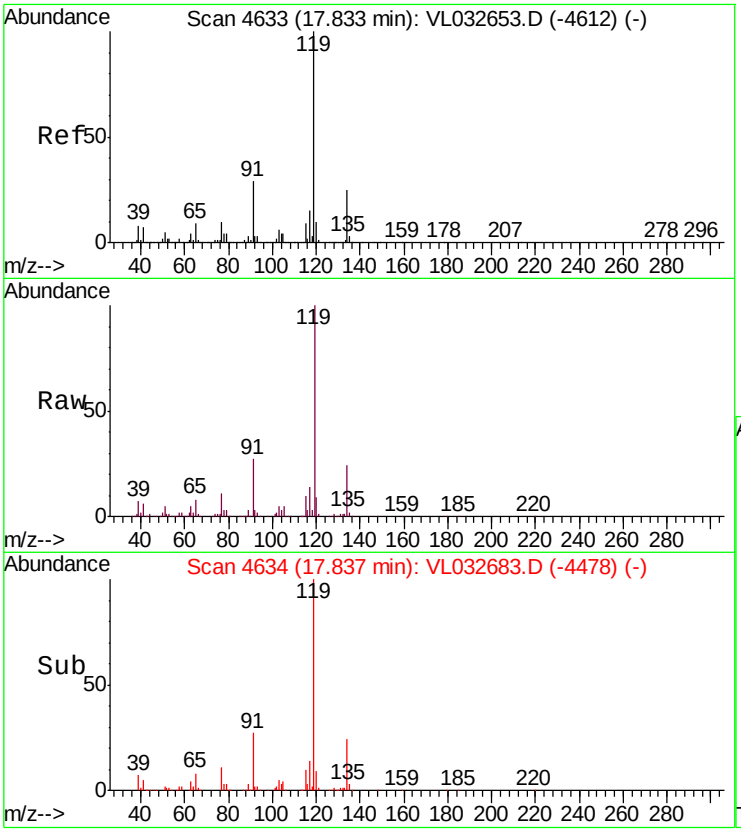


#68
1-Bromo-4-Fluorobenzene
Concen: 10.178 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 95 Resp: 2748862

Ion	Ratio	Lower	Upper
95	100		
174	62.7	46.0	69.0
175	4.8	3.4	5.0



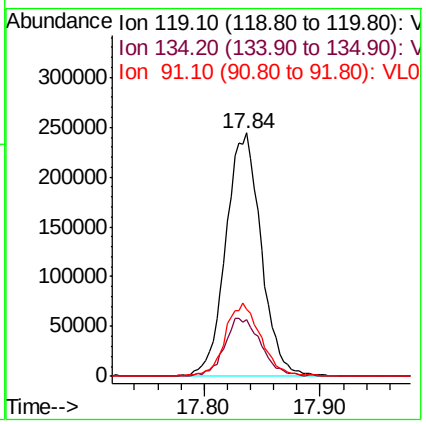


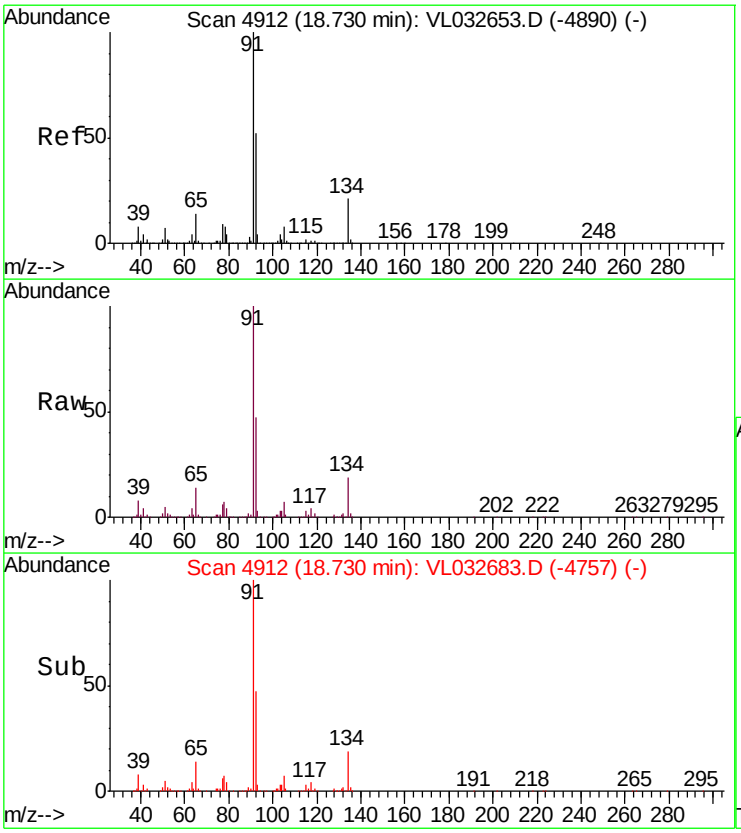
#69
p-Isopropyltoluene
Concen: 1.035 ppbv
RT: 17.84 min Scan# 4634
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:119 Resp: 508824

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.2	30.2
91	30.5	24.0	36.0

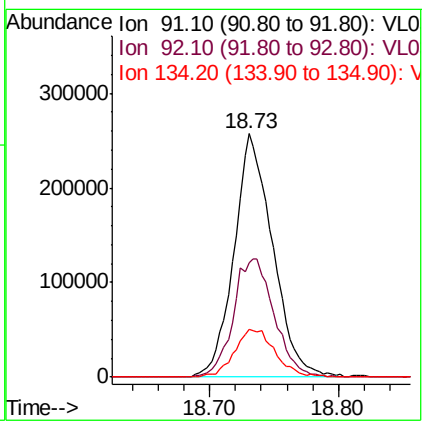


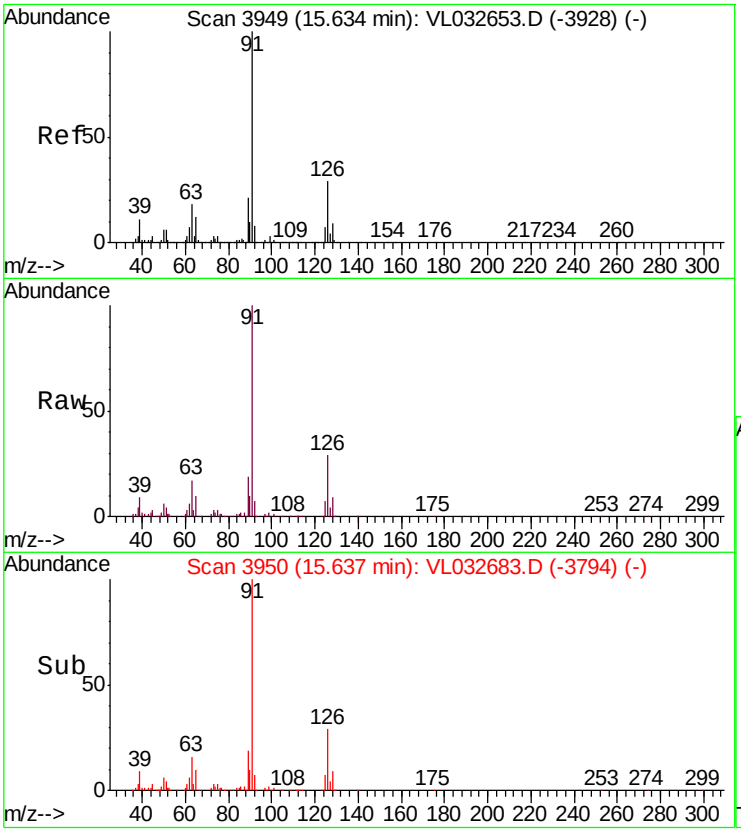


#70
n-Butylbenzene
Concen: 1.048 ppbv
RT: 18.73 min Scan# 4912
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 91 Resp: 530560

Ion	Ratio	Lower	Upper
91	100		
92	52.2	43.0	64.4
134	21.1	17.0	25.6



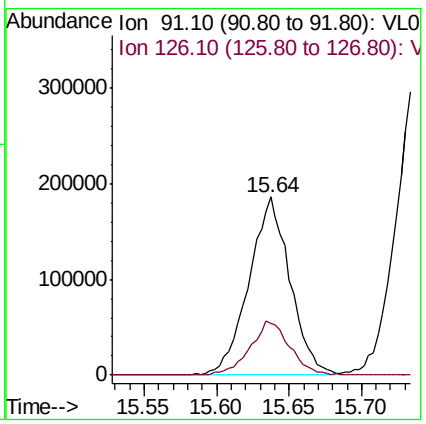


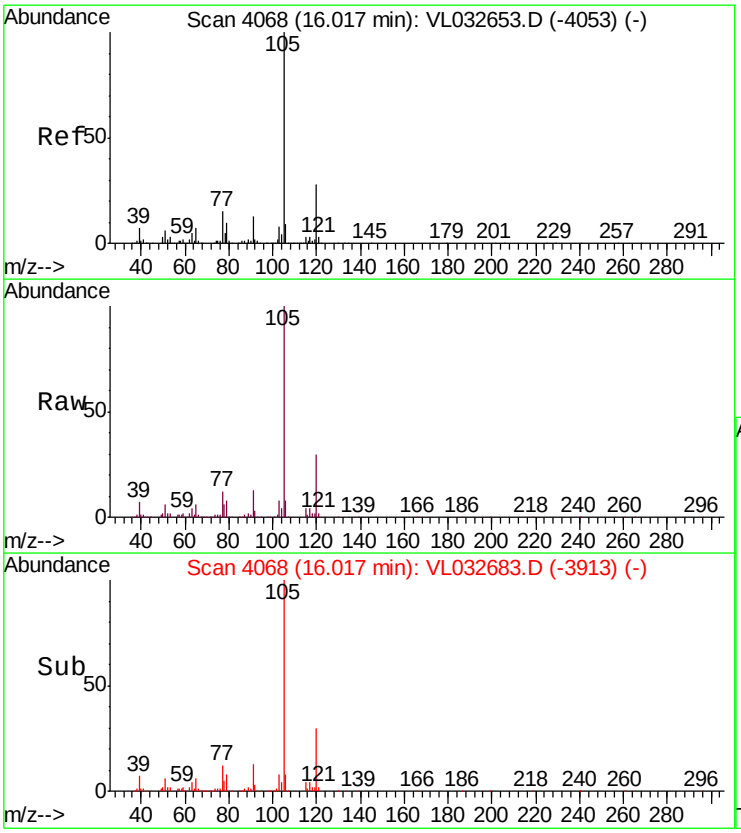
#71
2-Chlorotoluene
Concen: 1.003 ppbv
RT: 15.64 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument : MSVOA_L
ClientSampleId : LOQ-AIR-02-QT4-2018

Tgt Ion: 91 Resp: 365177

Ion	Ratio	Lower	Upper
91	100		
126	29.4	11.8	47.4

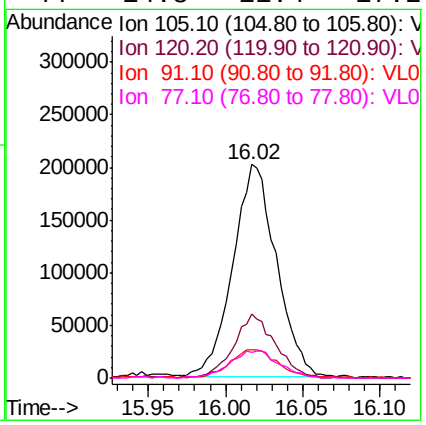


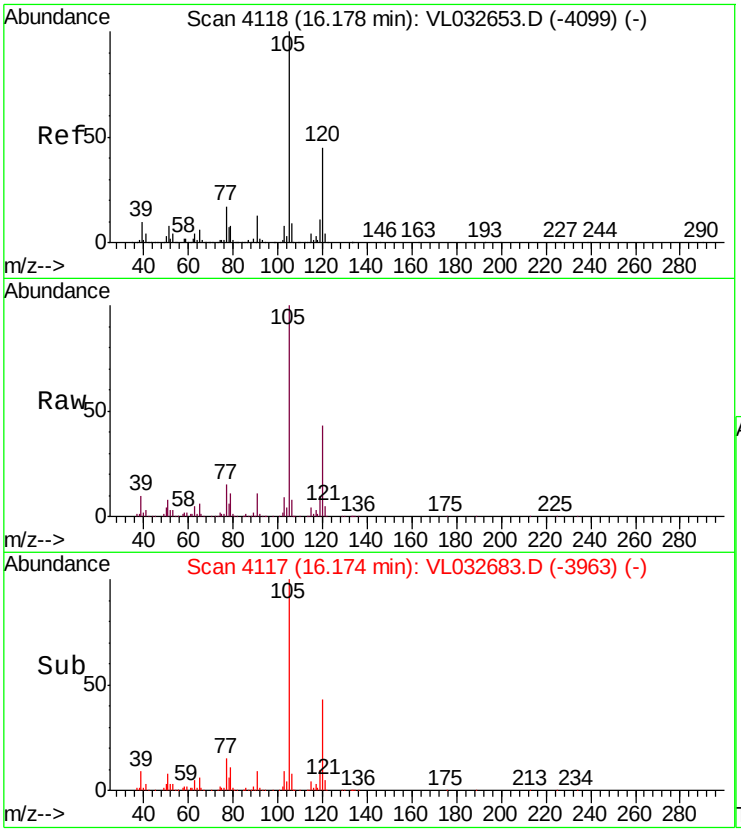


#72
4-Ethyltoluene
Concen: 1.017 ppbv
RT: 16.02 min Scan# 4068
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:105 Resp: 391894

Ion	Ratio	Lower	Upper
105	100		
120	28.8	23.7	35.5
91	16.2	10.4	15.6#
77	14.8	11.4	17.2



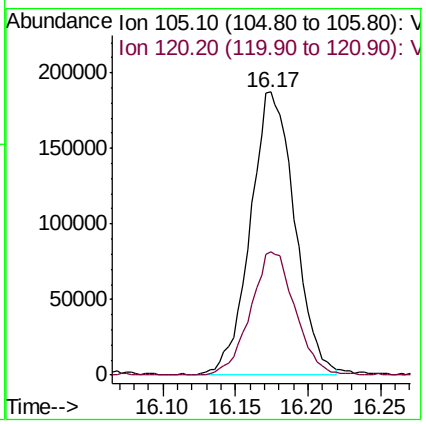


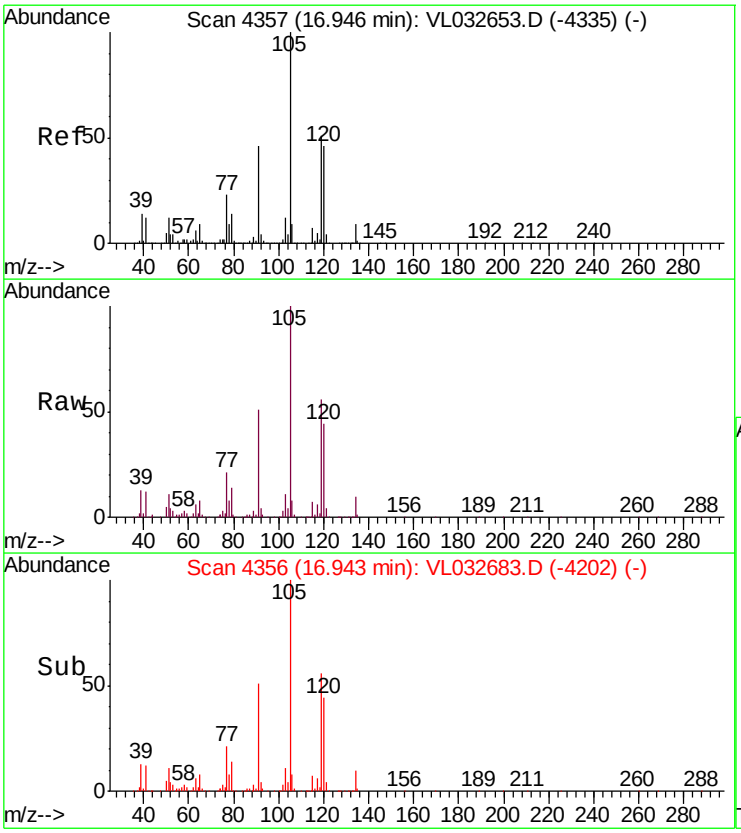
#73
1,3,5-Trimethylbenzene
Concen: 1.053 ppbv
RT: 16.17 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:105 Resp: 395270

Ion	Ratio	Lower	Upper
105	100		
120	43.5	35.4	53.2

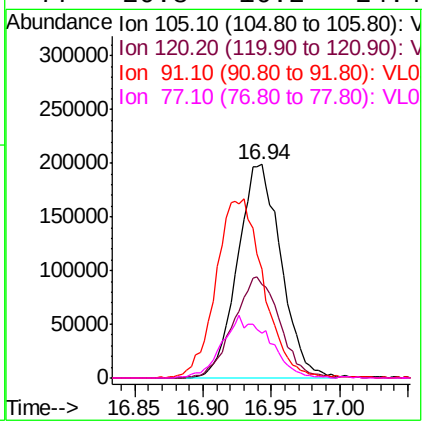


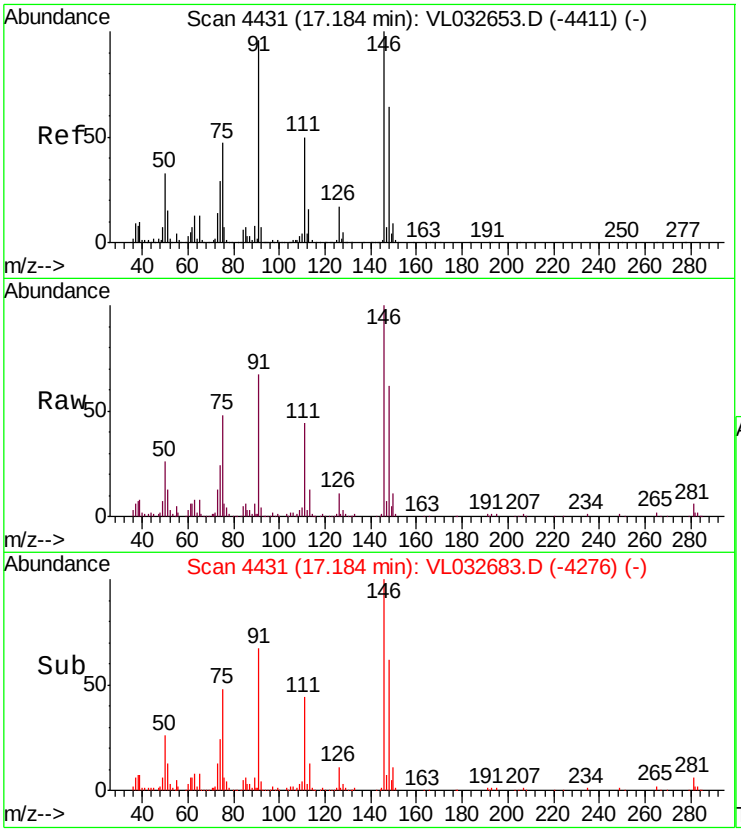


#74
1,2,4-Trimethylbenzene
Concen: 1.097 ppbv
RT: 16.94 min Scan# 4356
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:105 Resp: 439766

Ion	Ratio	Lower	Upper
105	100		
120	43.5	35.8	53.8
91	49.9	33.2	49.8#
77	20.8	16.2	24.4



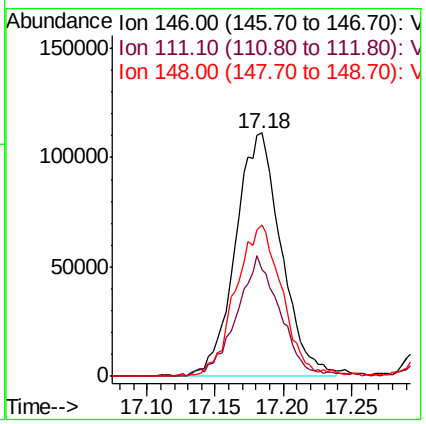


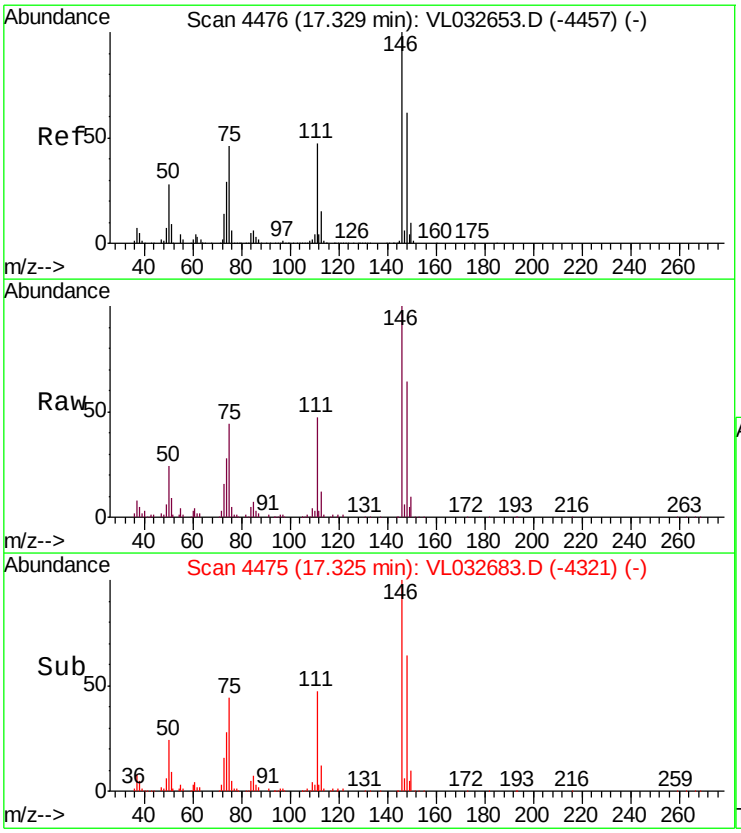
#75
1,3-Dichlorobenzene
Concen: 1.125 ppbv
RT: 17.18 min Scan# 4431
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:146 Resp: 259418

Ion	Ratio	Lower	Upper
146	100		
111	47.6	24.4	73.2
148	63.7	31.9	95.9

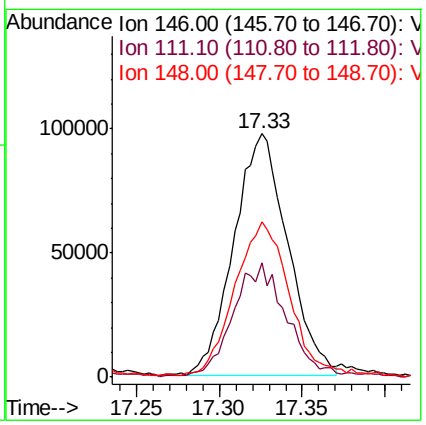


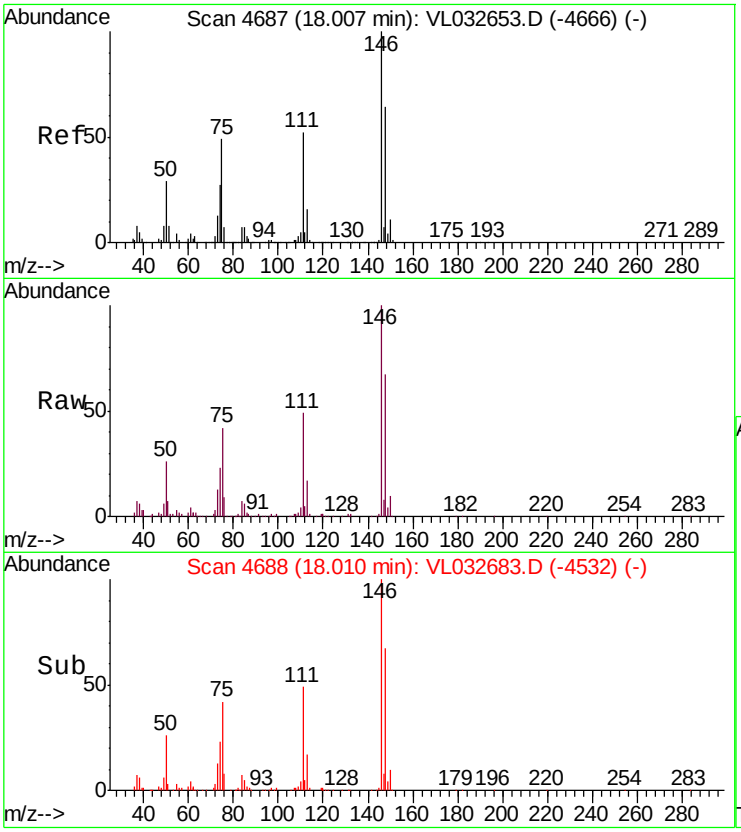


#76
1,4-Dichlorobenzene
Concen: 1.028 ppbv
RT: 17.33 min Scan# 4475
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:146 Resp: 218668

Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.7	71.1
148	67.7	32.1	96.3



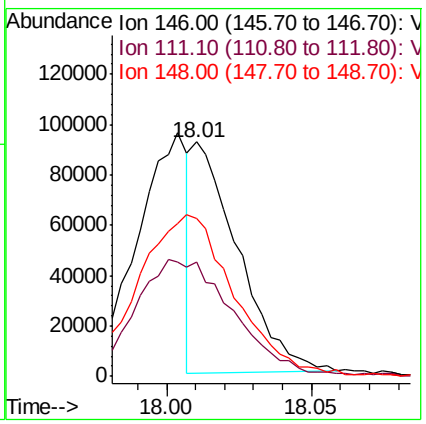


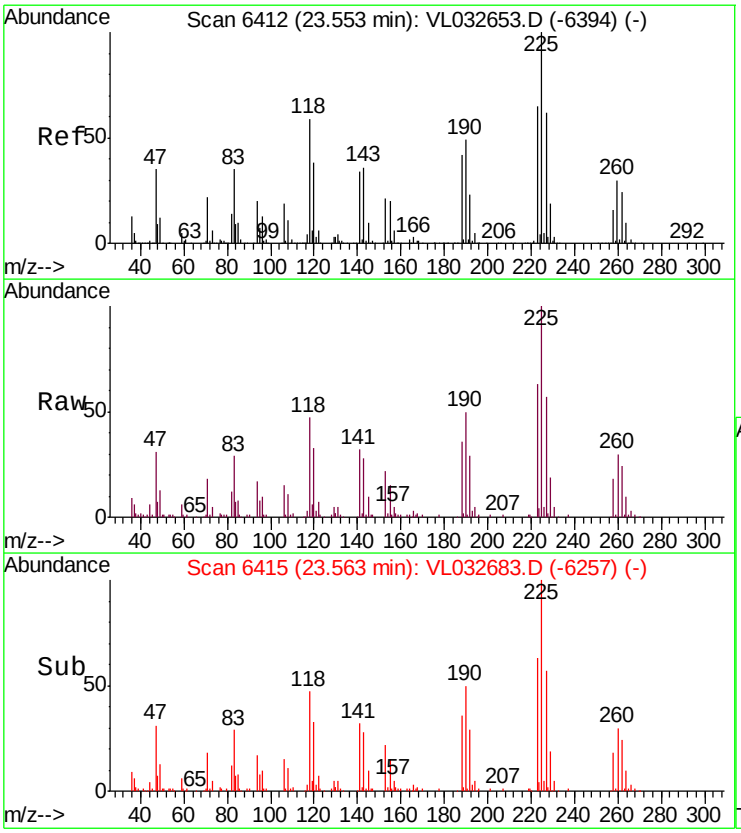
#77
1,2-Dichlorobenzene
Concen: 0.460 ppbv
RT: 18.01 min Scan# 4688
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:146 Resp: 100423

Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.3	75.8#
148	151.0	31.9	95.9#

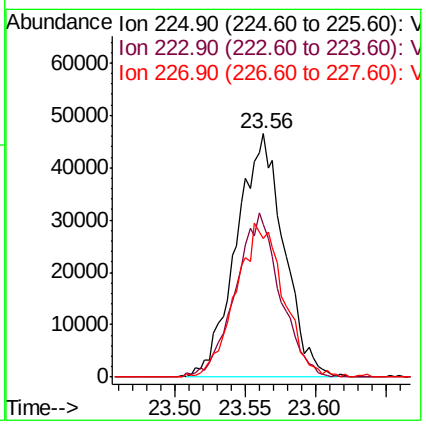


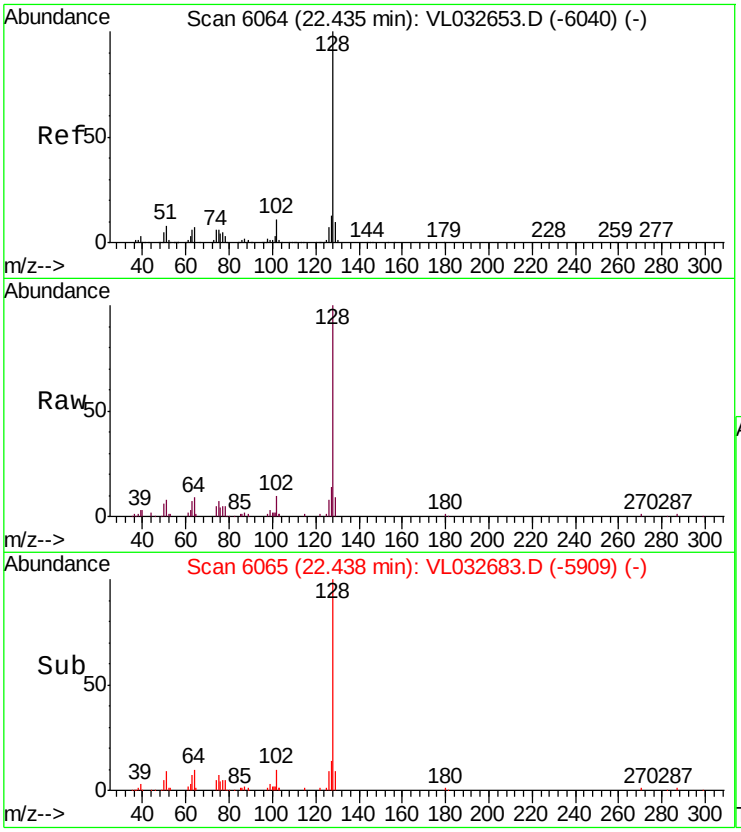


#78
Hexachloro-1,3-Butadiene
Concen: 1.060 ppbv
RT: 23.56 min Scan# 6415
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:225 Resp: 109416

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.7	76.1
227	64.0	50.7	76.1



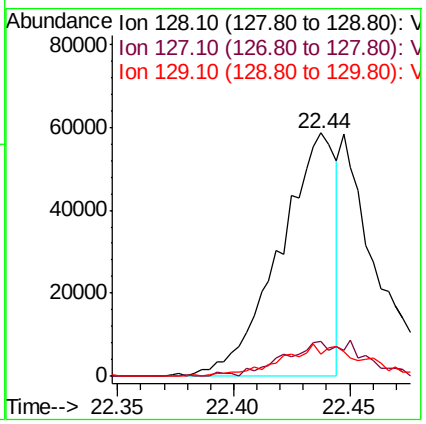


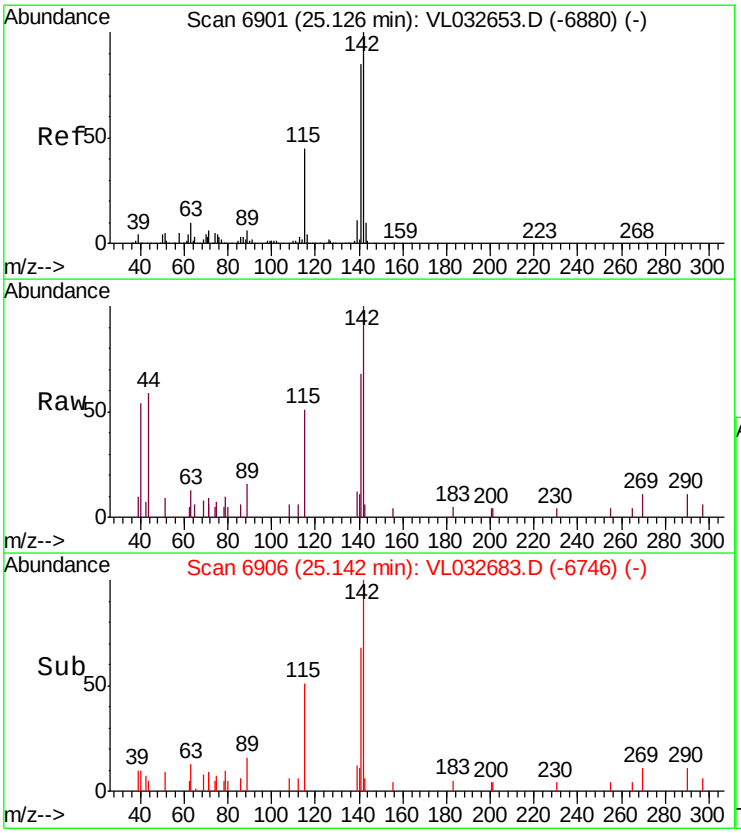
#79
Naphthalene
Concen: 0.394 ppbv
RT: 22.44 min Scan# 6065
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:128 Resp: 98303

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	9.3	8.6	13.0

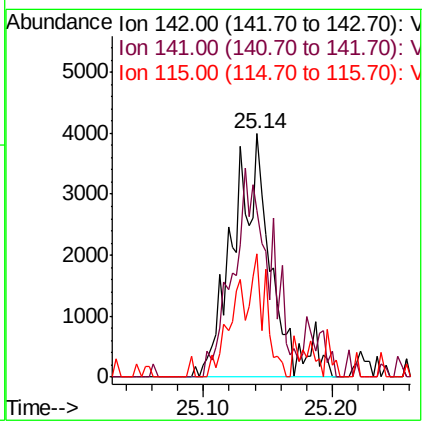


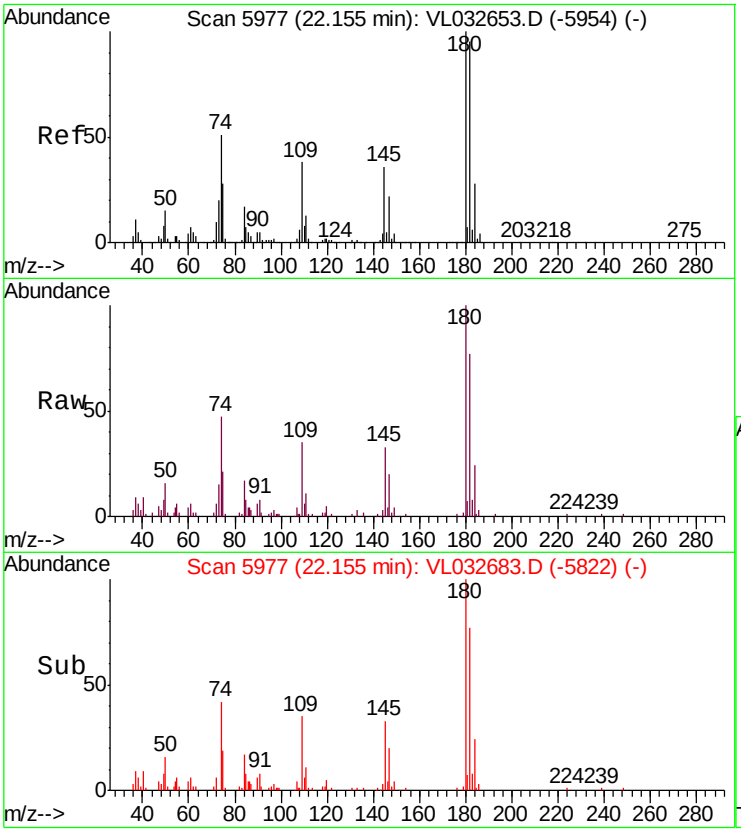


#80
Naphthalene,2-methyl-
Concen: 0.135 ppbv
RT: 25.14 min Scan# 6906
Delta R.T. 0.02 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:142 Resp: 8161

Ion	Ratio	Lower	Upper
142	100		
141	83.0	67.5	101.3
115	39.4	33.5	50.3





#81
1,2,4-Trichlorobenzene
Concen: 0.319 ppbv
RT: 22.15 min Scan# 5977
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tgt Ion:180 Resp: 41243

Ion	Ratio	Lower	Upper
180	100		
182	224.8	76.5	114.7#
184	70.6	24.7	37.1#