Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL012218\
Data File : VL031428.D
Acq On : 22 Jan 2018 23:03
Operator : SY/AP
Sample : J1089-10
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Quant Time: Jan 23 06:20:55 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 22 17:52:32 2018
QLast Update : Mon Jan 22 17:52:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.90	49	1166223	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.44	114	2662057	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.41	117	2629637	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.75	95	2154570	10.23	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.17	85	34656	0.21	ppbv	#	81
3) Chlorodifluoromethane	3.11	51	21437	0.14	ppbv		97
4) Chloromethane	3.27	50	4052	0.06	ppbv		91
5) Vinyl Chloride	3.40	62	8969	0.14	ppbv		97
6) Bromomethane	3.62	94	4654	0.10	ppbv		81
7) Chloroethane	3.72	64	4177	0.15	ppbv	#	88
8) Dichlorotetrafluoroethane	3.32	85	27768	0.15	ppbv		100
9) Propene	3.14	41	6944	0.13	ppbv		96
10) Heptane	8.40	43	15145	0.09	ppbv		95
11) Trichlorofluoromethane	4.13	101	30264	0.14	ppbv		99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	17947	0.13	ppbv		100
13) Ethanol	3.76	45	97	0.01	ppbv	#	38
14) Bromoethene	3.90	108	6717	0.12	ppbv		93
15) Acetone	4.05	43	28493	0.18	ppbv		91
16) 1,3-Butadiene	3.47	39	9250	0.14	ppbv		86
17) tert-Butyl alcohol	4.48	59	168	0.00	ppbv	#	71
18) 1,1-Dichloroethene	4.48	96	7955	0.13	ppbv		88
19) Isopropyl Alcohol	4.14	45	142	0.00	ppbv	#	97
20) Methylene Chloride	4.54	84	15873	0.26	ppbv	#	96
21) Allyl Chloride	4.60	41	11349	0.12	ppbv		89
22) trans-1,2-Dichloroethene	5.10	96	8950	0.14	ppbv	#	92
23) Vinyl Acetate	5.28	43	734	0.00	ppbv	#	76
24) 1,1-Dichloroethane	5.22	63	22063	0.13	ppbv	#	98
25) Ethyl Acetate	5.93	43	33352	0.12	ppbv	#	97
26) Hexane	5.92	57	15175	0.12	ppbv		94
27) Carbon Disulfide	4.75	76	19085	0.12	ppbv	#	52
28) Methyl tert-Butyl Ether	5.28	73	12380	0.08	ppbv	#	83
29) Chloroform	5.99	83	28232	0.13	ppbv		92
30) Cyclohexane	7.40	84	4959	0.05	ppbv	#	1
31) cis-1,2-Dichloroethene	5.78	61	13391	0.12	ppbv	#	81
32) 1,1,1-Trichloroethane	6.77	97	26847	0.13	ppbv		96
34) 2-Butanone	5.49	43	19137	0.11	ppbv		96
35) Carbon Tetrachloride	7.29	117	20666	0.10	ppbv		97
36) Benzene	7.16	78	26150	0.11	ppbv	#	93
37) 1,2-Dichloroethane	6.56	62	24126	0.13	ppbv		99
38) Trichloroethene	8.11	130	3593	0.04	ppbv		92
39) 1,2-Dichloropropane	7.89	63	9373	0.11	ppbv		90
40) 1,4-Dioxane	8.17	88	802	0.02	ppbv	#	1
41) Tetrahydrofuran	6.33	42	2771	0.03	ppbv	#	4
42) Bromodichloromethane	8.07	83	15612	0.07	ppbv	#	90
43) Methyl Methacrylate	8.28	69	326	0.00	ppbv	#	1

Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL012218\
Data File : VL031428.D
Acq On : 22 Jan 2018 23:03
Operator : SY/AP
Sample : J1089-10
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Quant Time: Jan 23 06:20:55 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 22 17:52:32 2018
QLast Update : Mon Jan 22 17:52:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	25905	0.06	ppbv	#	56
45) t-1,3-Dichloropropene	9.57	75	4198	0.03	ppbv		91
46) cis-1,3-Dichloropropene	8.99	75	12506	0.08	ppbv	#	84
47) 1,1,2-Trichloroethane	9.77	97	8211	0.08	ppbv	#	90
48) Dibromochloromethane	10.62	129	20556	0.11	ppbv		98
49) Bromoform	13.36	173	5270	0.04	ppbv	#	27
50) 4-Methyl-2-Pentanone	9.05	43	4448	0.02	ppbv	#	41
51) 2-Hexanone	10.44	43	819	0.00	ppbv	#	31
52) Tetrachloroethene	11.53	164	3278	0.04	ppbv	#	37
53) Toluene	10.11	91	23654	0.08	ppbv		98
54) 1,2-Dibromoethane	10.92	107	8056	0.05	ppbv		82
56) 1,1,1,2-Tetrachloroethane	12.44	131	5596	0.04	ppbv	#	1
57) Chlorobenzene	12.47	112	15125	0.07	ppbv	#	70
58) Ethyl Benzene	13.03	91	35648	0.09	ppbv		97
59) m/p-Xylene	13.32	91	13823	0.04	ppbv	#	32
60) o-Xylene	14.02	91	18326	0.06	ppbv	#	61
61) Styrene	13.85	104	3512	0.05	ppbv	#	48
62) Isopropylbenzene	15.00	105	19848	0.05	ppbv	#	48
63) 1,1,2,2-Tetrachloroethane	14.00	83	13545	0.06	ppbv	#	25
64) n-propylbenzene	15.89	120	3081	0.03	ppbv	#	1
65) tert-Butylbenzene	17.07	119	12067	0.03	ppbv	#	16
66) Benzyl Chloride	17.32	91	1481	0.04	ppbv	#	67
67) sec-Butylbenzene	17.62	105	47483	0.09	ppbv		99
69) p-Isopropyltoluene	17.98	119	9457	0.02	ppbv	#	1
70) n-Butylbenzene	18.88	91	23430	0.05	ppbv	#	69
71) 2-Chlorotoluene	15.79	91	29528	0.09	ppbv		99
72) 4-Ethyltoluene	16.17	105	20244	0.06	ppbv	#	83
73) 1,3,5-Trimethylbenzene	16.31	105	4700	0.02	ppbv		90
74) 1,2,4-Trimethylbenzene	17.10	105	14880	0.04	ppbv	#	88
75) 1,3-Dichlorobenzene	17.34	146	15734	0.08	ppbv	#	33
76) 1,4-Dichlorobenzene	17.48	146	20962	0.10	ppbv		84
77) 1,2-Dichlorobenzene	18.16	146	12089	0.06	ppbv	#	30
78) Hexachloro-1,3-Butadiene	23.70	225	2837	0.04	ppbv	#	18
79) Naphthalene	22.61	128	3151	0.02	ppbv	#	94
80) Naphthalene,2-methyl-	25.26	142	3333	0.06	ppbv		96
81) 1,2,4-Trichlorobenzene	22.33	180	2640	0.02	ppbv	#	14

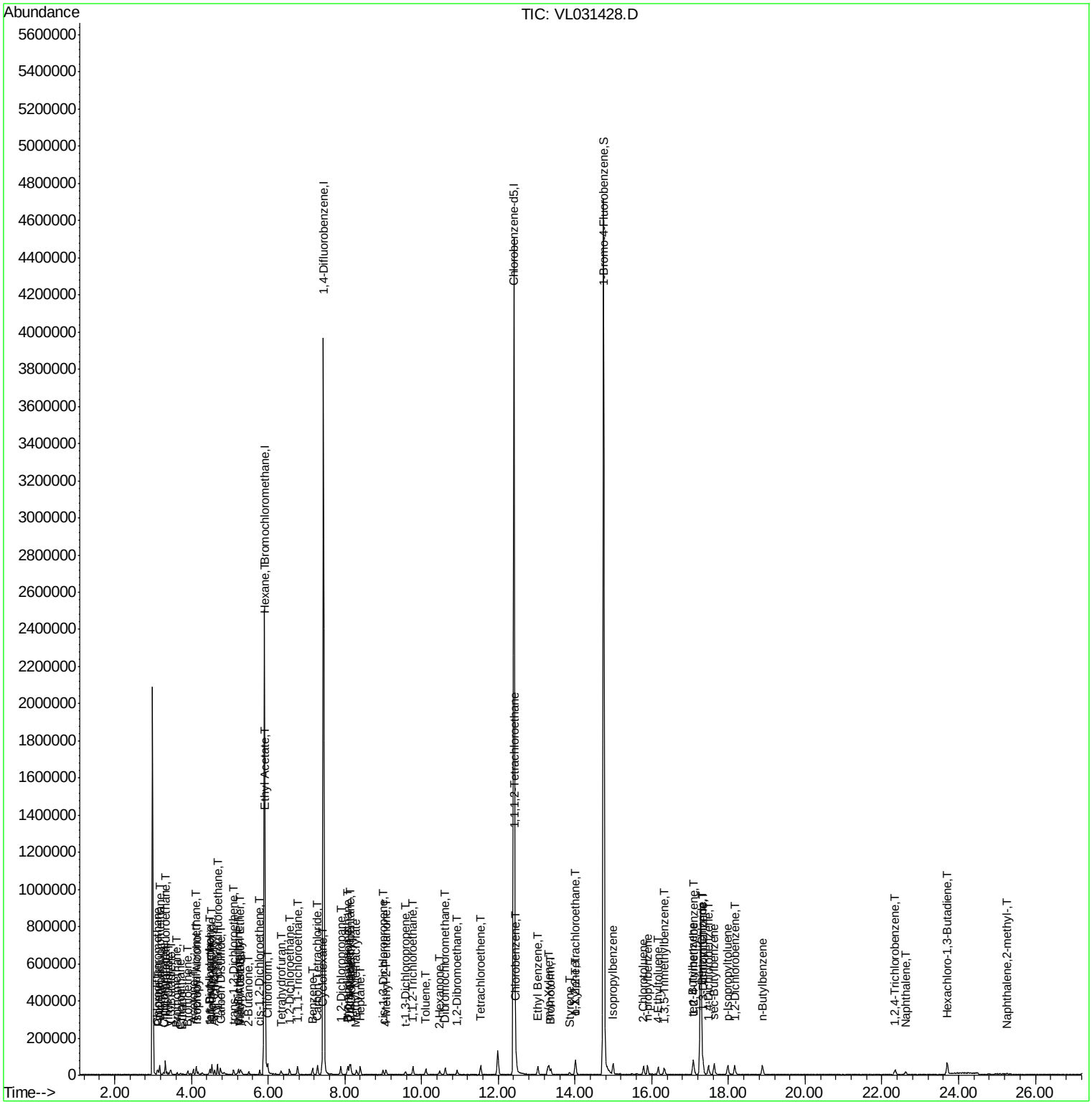
(#) = qualifier out of range (m) = manual integration (+) = signals summed

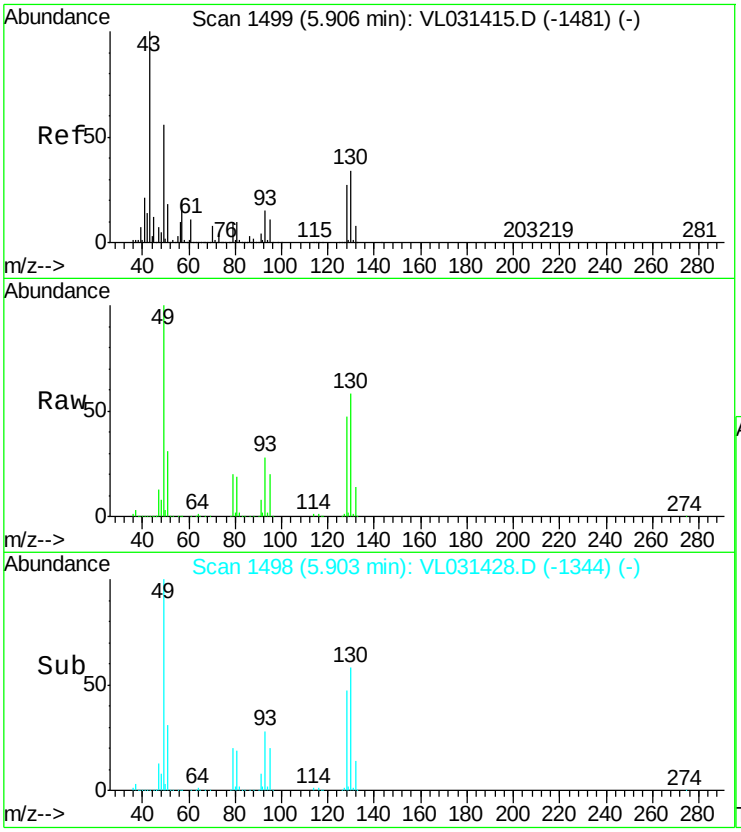
Quantitation Report (Not Reviewed)

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL012218\
Data File : VL031428.D
Acq On : 22 Jan 2018 23:03
Operator : SY/AP
Sample : J1089-10
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Quant Time: Jan 23 06:20:55 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 22 17:52:32 2018
QLast Update : Mon Jan 22 17:52:32 2018
Response via : Initial Calibration



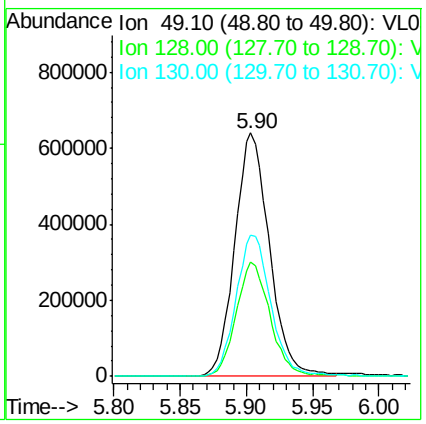


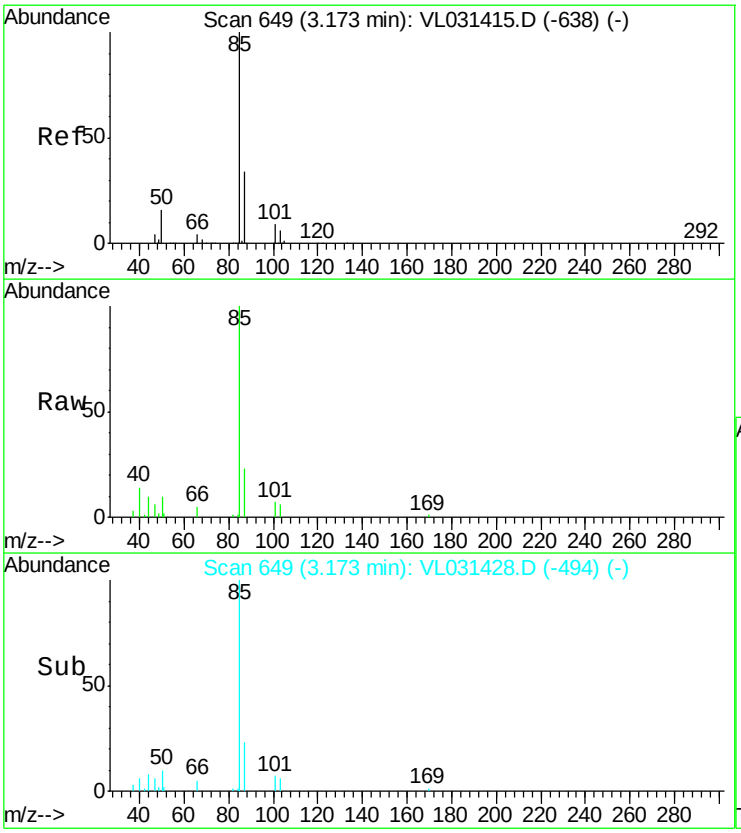
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 49 Resp: 1166223

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.5	70.6
130	58.8	29.9	89.7

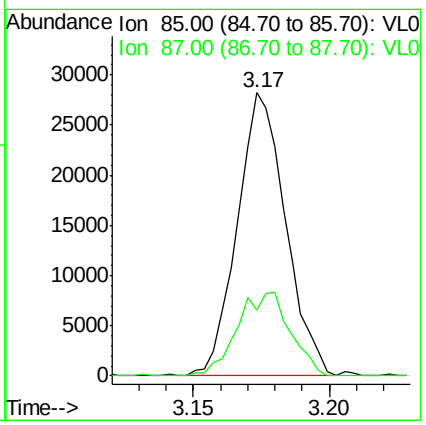


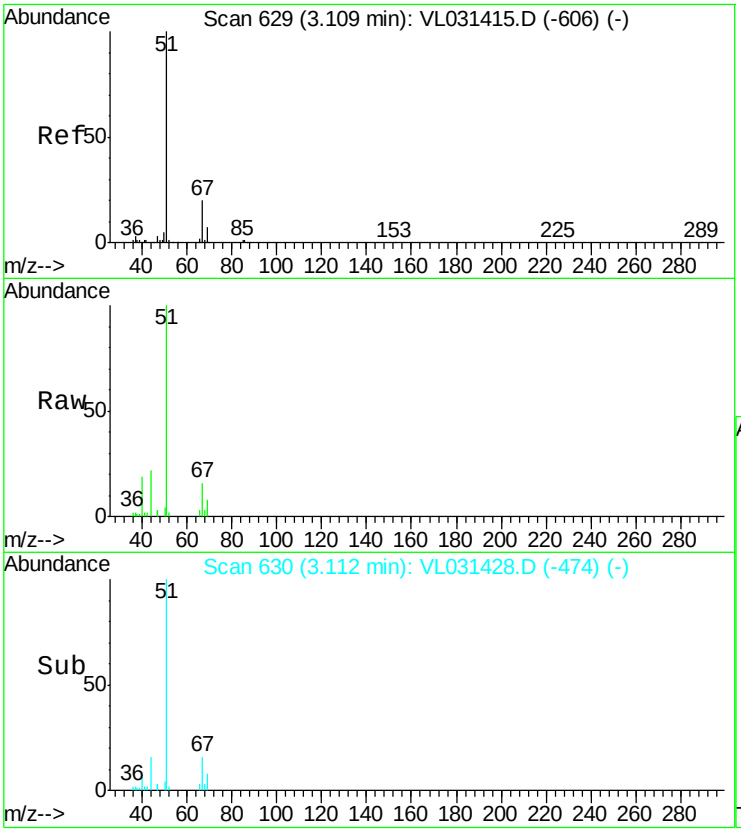


#2
Dichlorodifluoromethane
Concen: 0.21 ppbv
RT: 3.17 min Scan# 649
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 85 Resp: 34656

Ion	Ratio	Lower	Upper
85	100		
87	23.2	27.4	41.0#



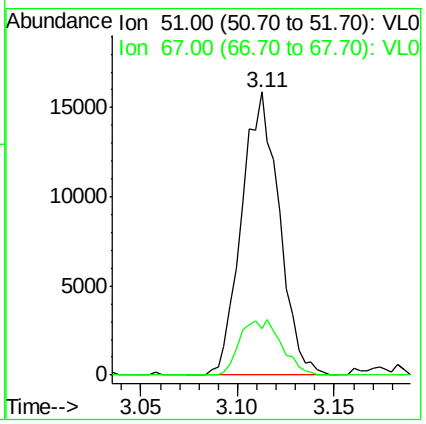


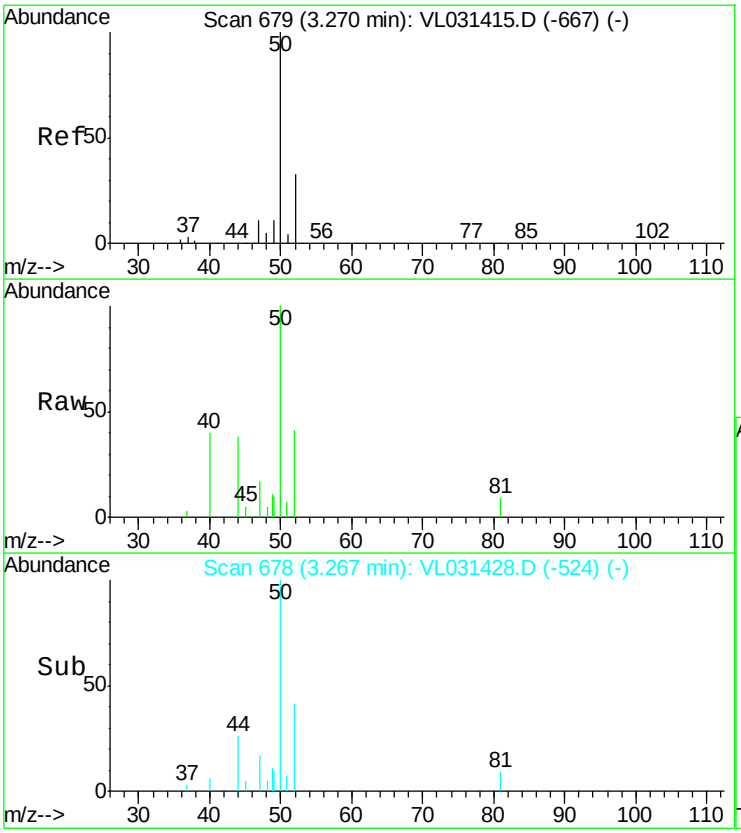
#3
Chlorodifluoromethane
Concen: 0.14 ppbv
RT: 3.11 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 51 Resp: 21437

Ion	Ratio	Lower	Upper
51	100		
67	21.4	16.0	24.0

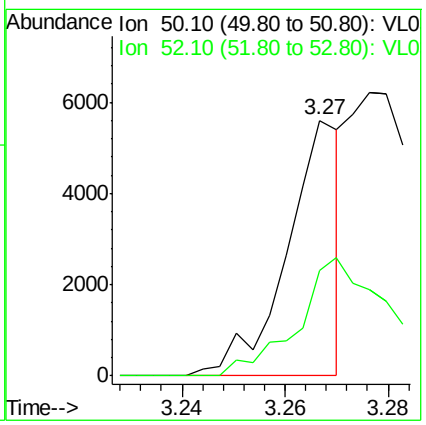


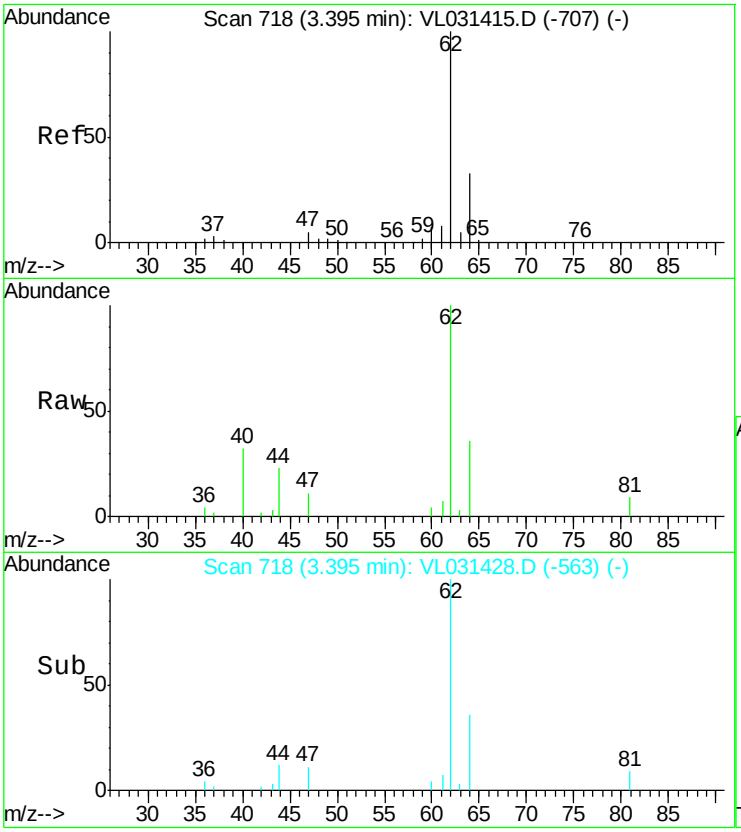


#4
Chloromethane
Concen: 0.06 ppbv
RT: 3.27 min Scan# 678
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 50 Resp: 4052

Ion	Ratio	Lower	Upper
50	100		
52	38.4	26.4	39.6



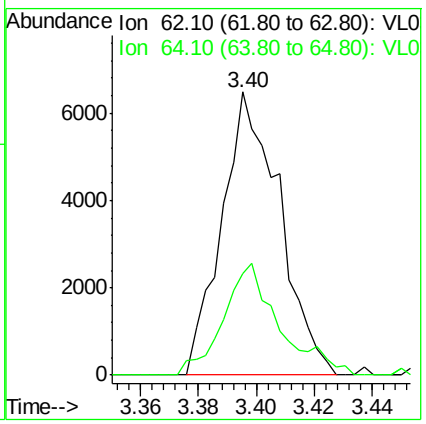


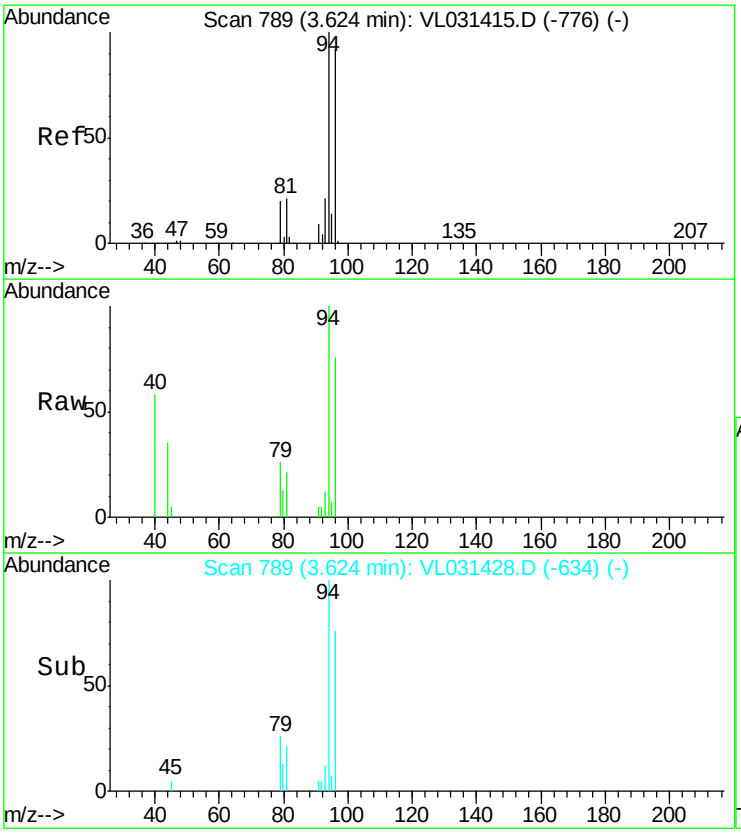
#5
Vinyl Chloride
Concen: 0.14 ppbv
RT: 3.40 min Scan# 718
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 62 Resp: 8969

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.4	38.0

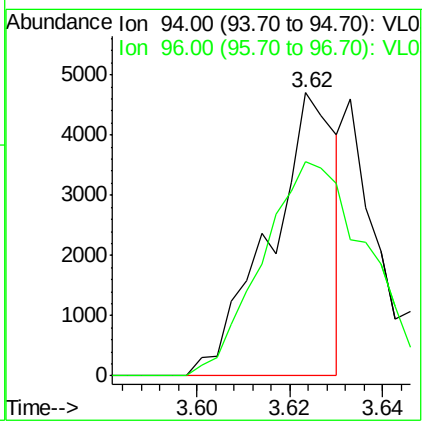


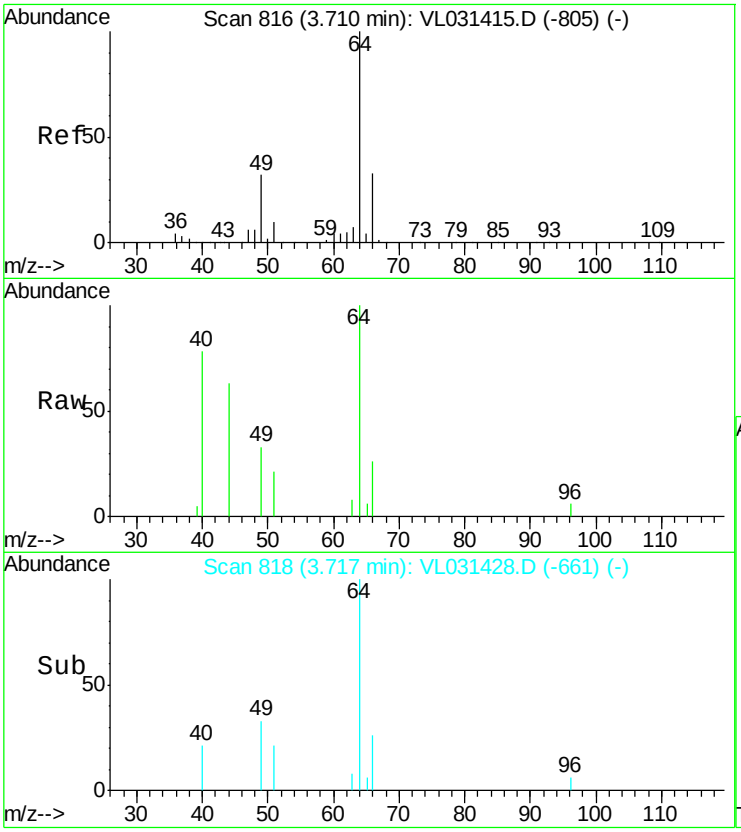


#6
Bromomethane
Concen: 0.10 ppbv
RT: 3.62 min Scan# 789
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 94 Resp: 4654

Ion	Ratio	Lower	Upper
94	100		
96	75.6	75.1	112.7



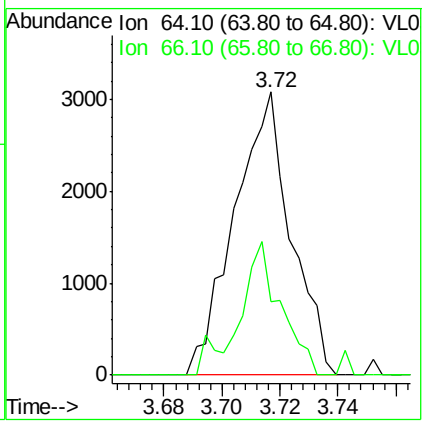


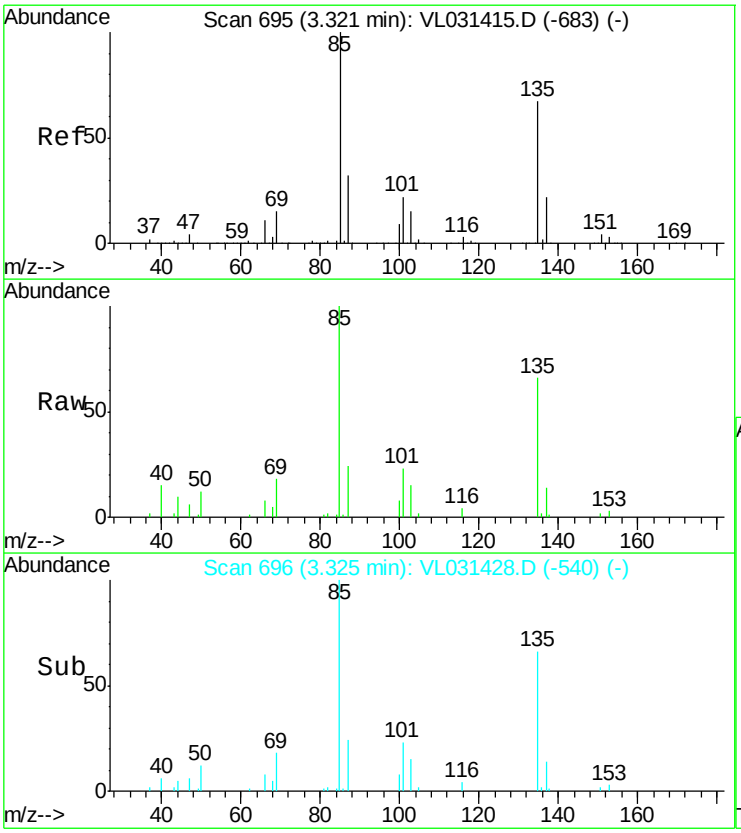
#7
Chloroethane
Concen: 0.15 ppbv
RT: 3.72 min Scan# 818
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 64 Resp: 4177

Ion	Ratio	Lower	Upper
64	100		
66	26.1	26.3	39.5#

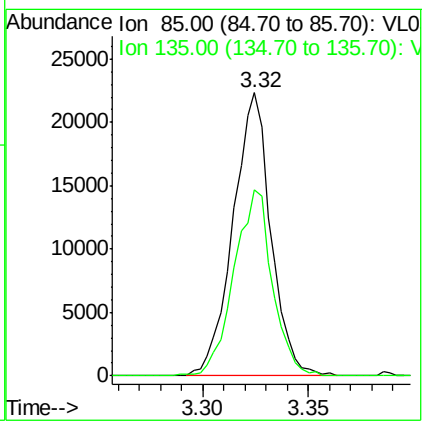


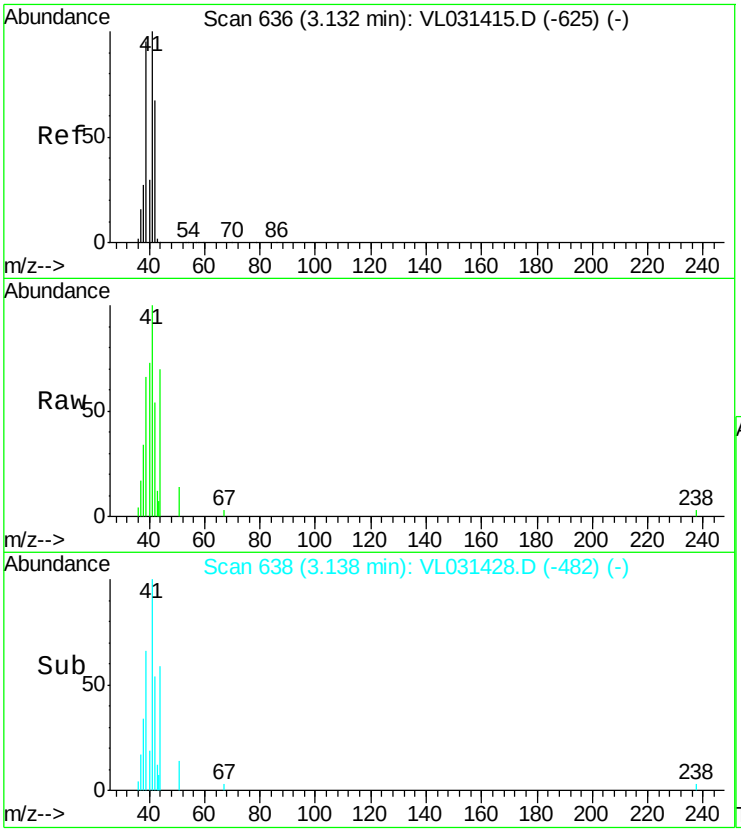


#8
Dichlorotetrafluoroethane
Concen: 0.15 ppbv
RT: 3.32 min Scan# 696
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 85 Resp: 27768

Ion	Ratio	Lower	Upper
85	100		
135	66.6	53.3	79.9



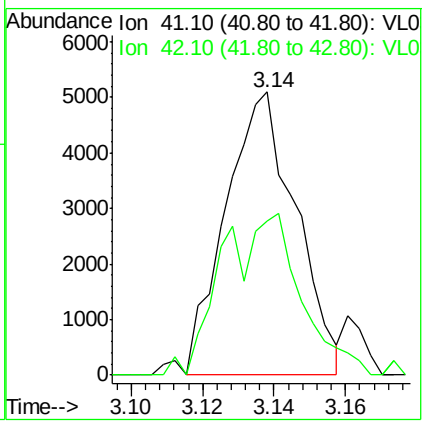


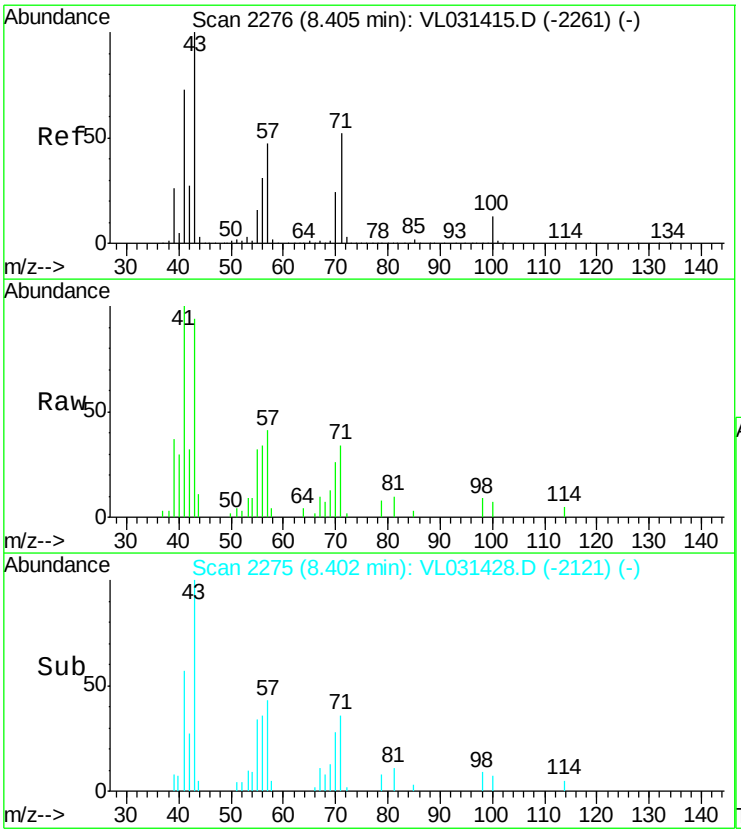
#9
Propene
Concen: 0.13 ppbv
RT: 3.14 min Scan# 638
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 41 Resp: 6944

Ion	Ratio	Lower	Upper
41	100		
42	65.4	54.6	82.0

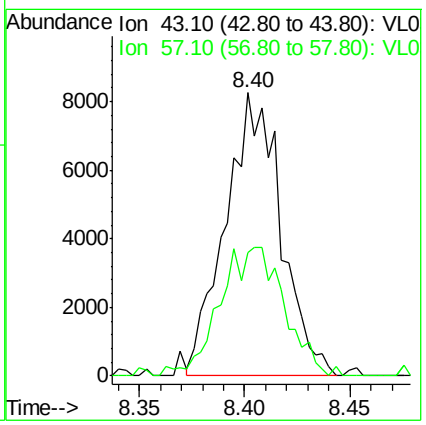


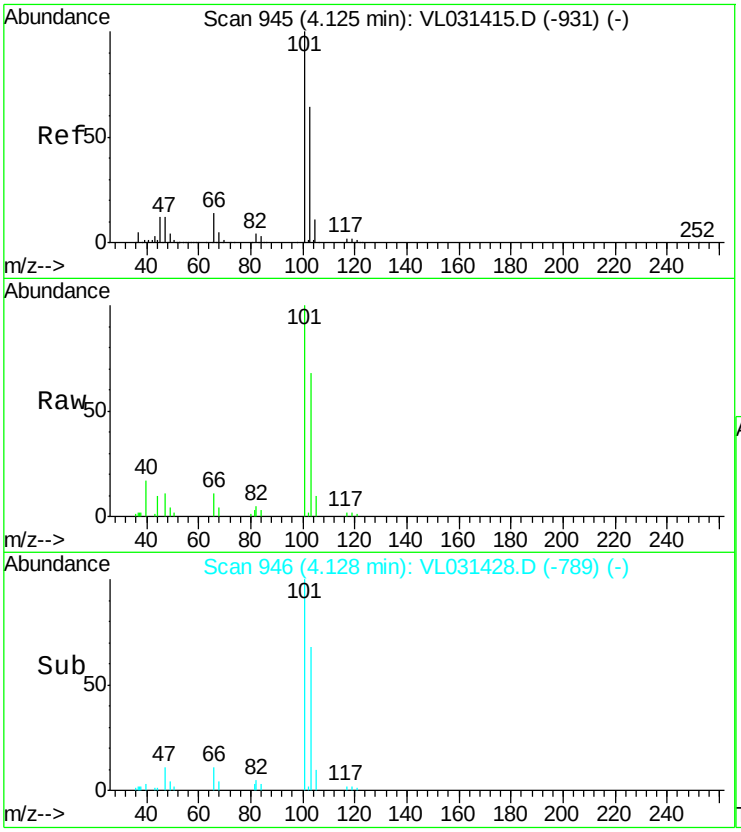


#10
Heptane
Concen: 0.09 ppbv
RT: 8.40 min Scan# 2275
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 43 Resp: 15145

Ion	Ratio	Lower	Upper
43	100		
57	53.0	39.7	59.5



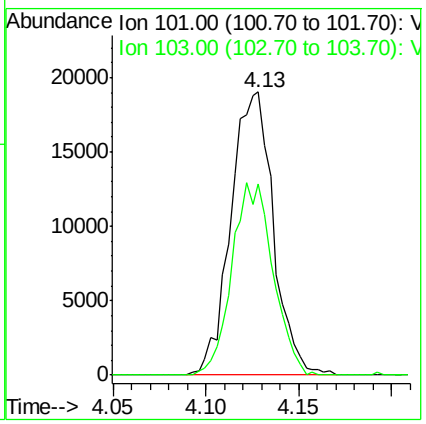


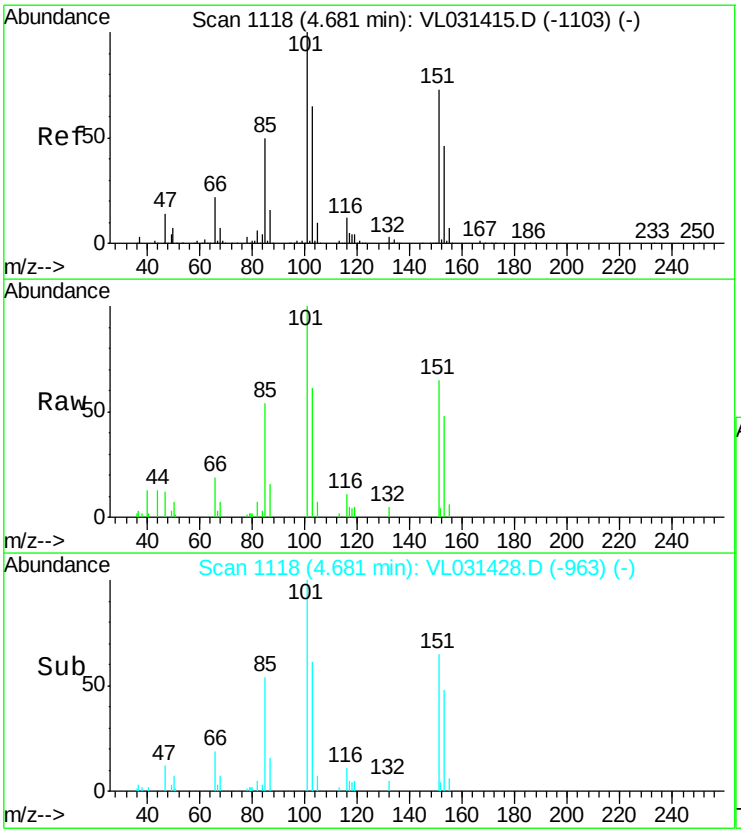
#11
Trichlorofluoromethane
Concen: 0.14 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:101 Resp: 30264

Ion	Ratio	Lower	Upper
101	100		
103	67.6	53.1	79.7

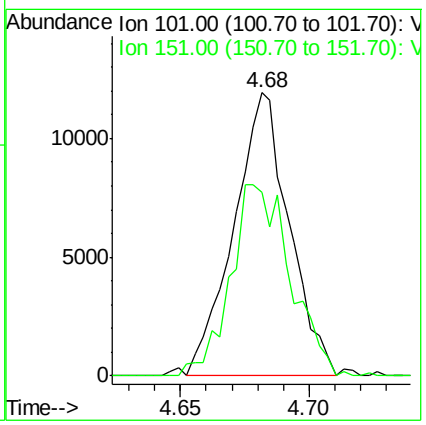


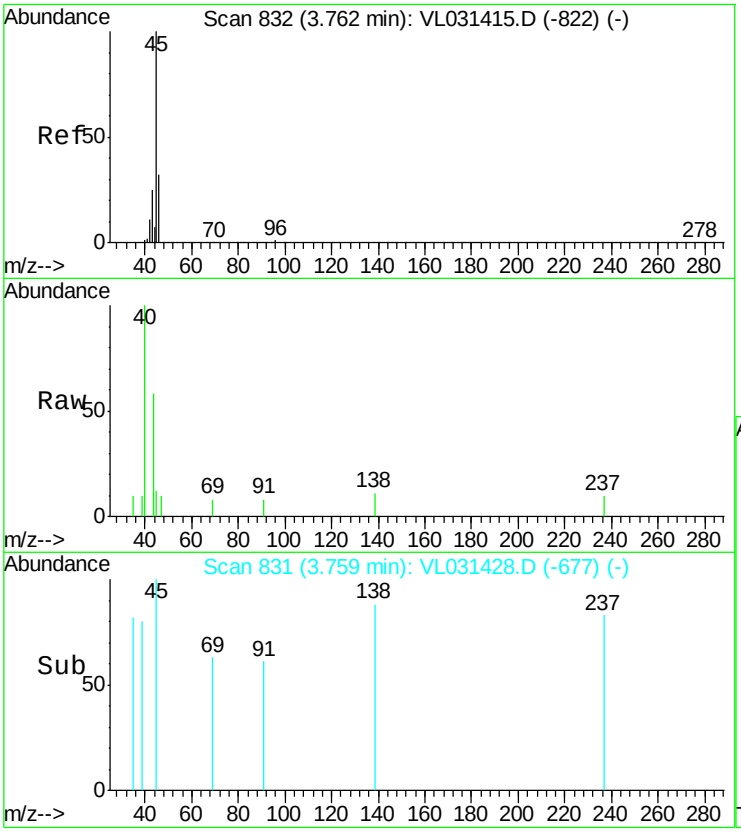


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.13 ppbv
RT: 4.68 min Scan# 1118
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:101 Resp: 17947

Ion	Ratio	Lower	Upper
101	100		
151	72.3	58.1	87.1



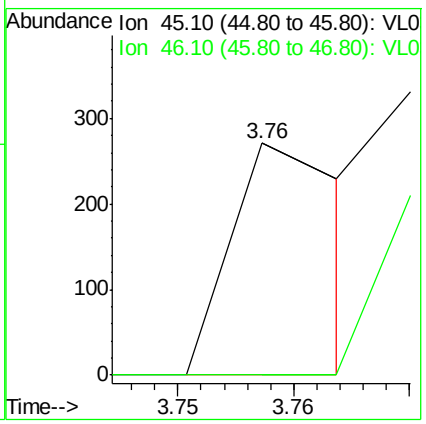


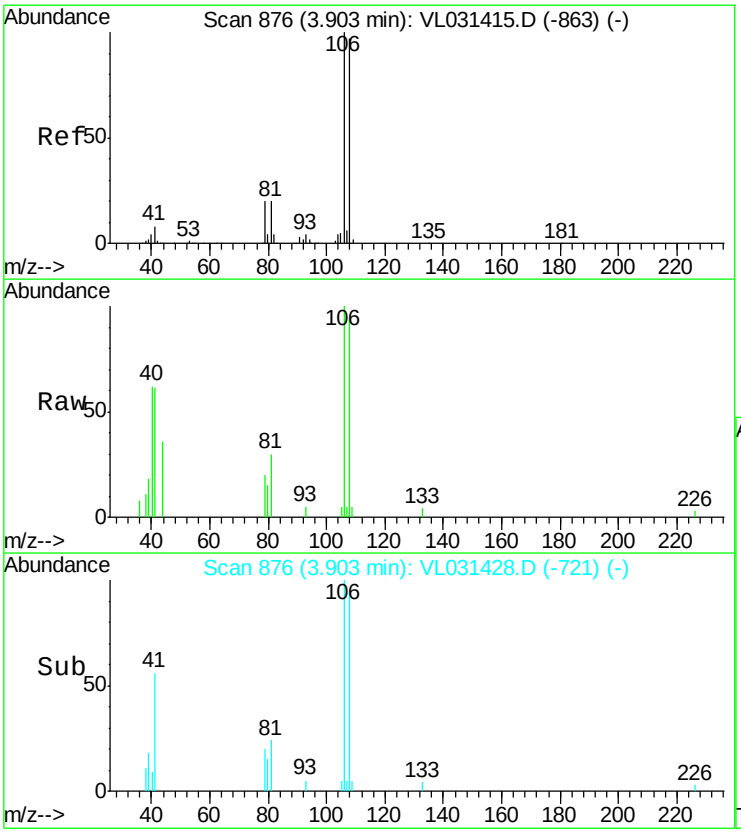
#13
Ethanol
Concen: 0.01 ppbv
RT: 3.76 min Scan# 831
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 45 Resp: 97

Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.9	59.5#

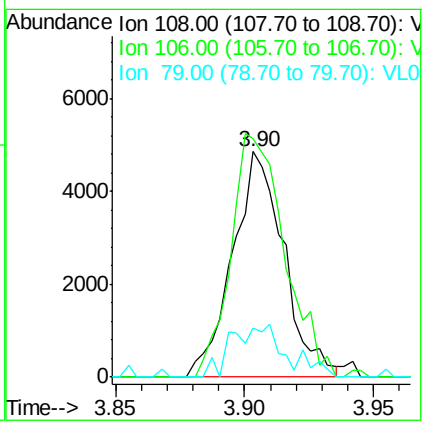


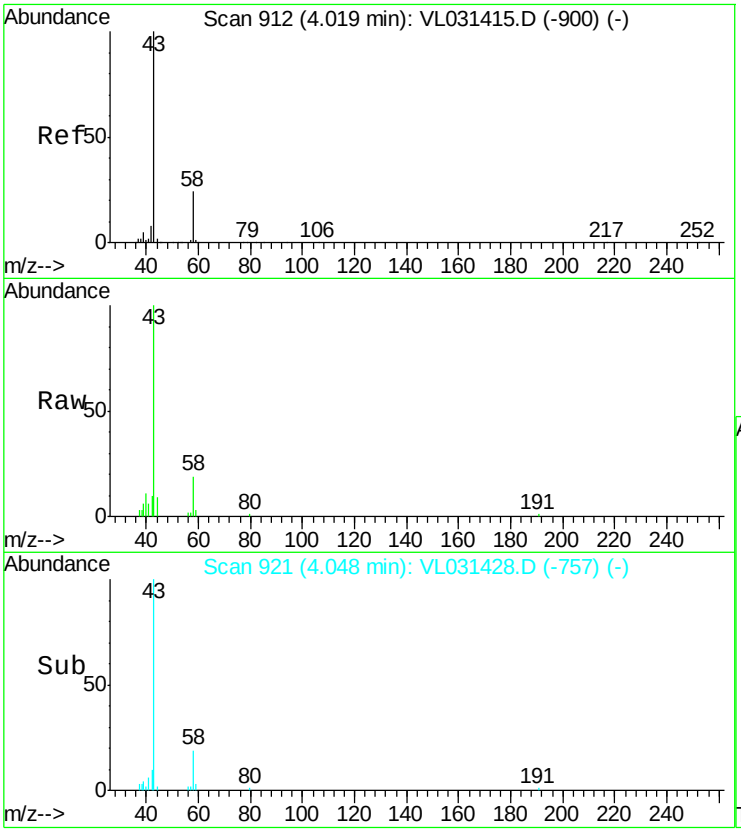


#14
Bromoethene
Concen: 0.12 ppbv
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:108 Resp: 6717

Ion	Ratio	Lower	Upper
108	100		
106	113.4	85.3	127.9
79	25.0	16.8	25.2



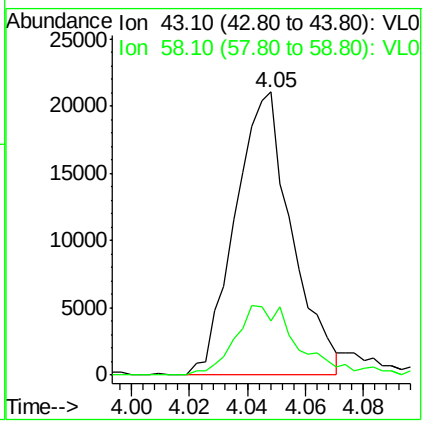


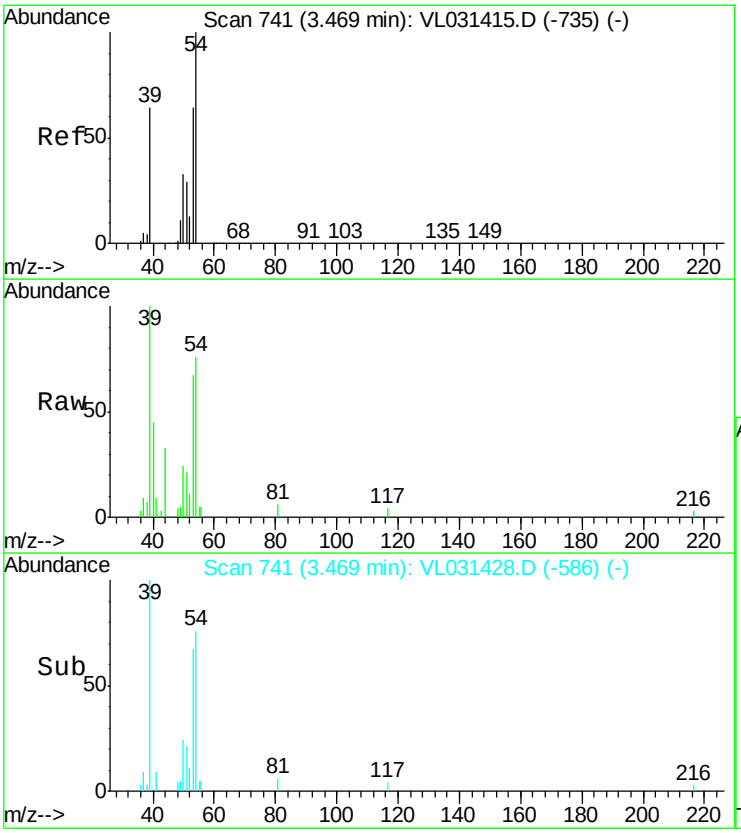
#15
Acetone
Concen: 0.18 ppbv
RT: 4.05 min Scan# 921
Delta R.T. 0.03 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 43 Resp: 28493

Ion	Ratio	Lower	Upper
43	100		
58	28.5	19.4	29.2

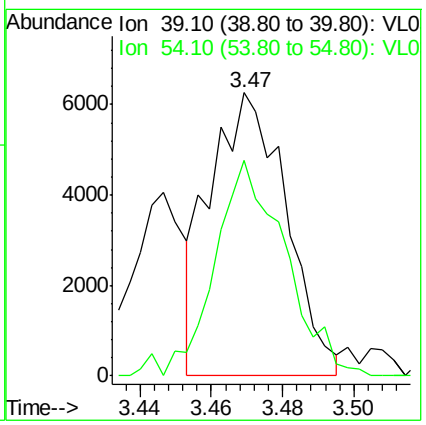


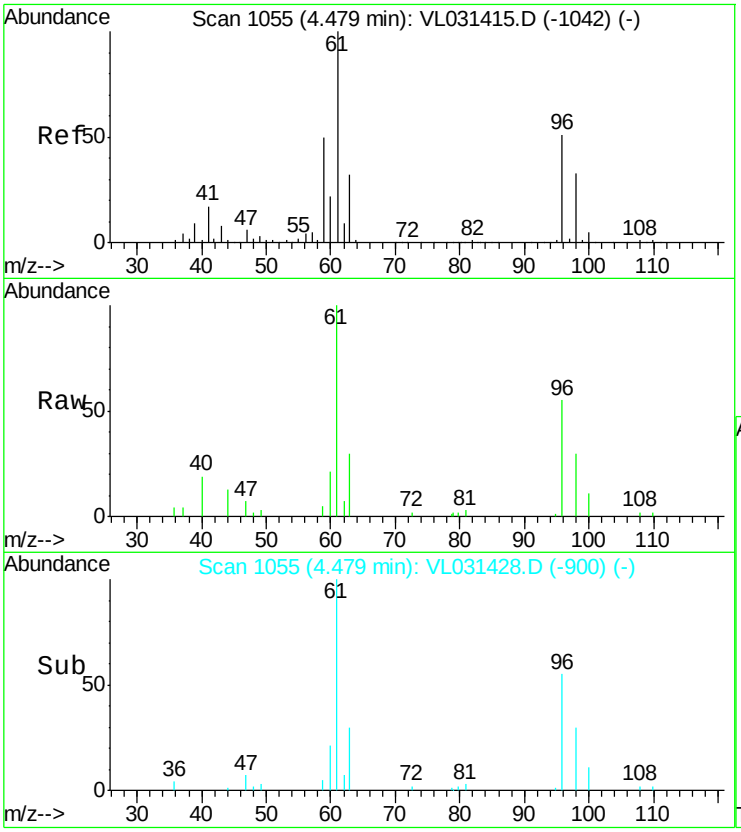


#16
1,3-Butadiene
Concen: 0.14 ppbv
RT: 3.47 min Scan# 741
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 39 Resp: 9250

Ion	Ratio	Lower	Upper
39	100		
54	71.1	67.0	100.6



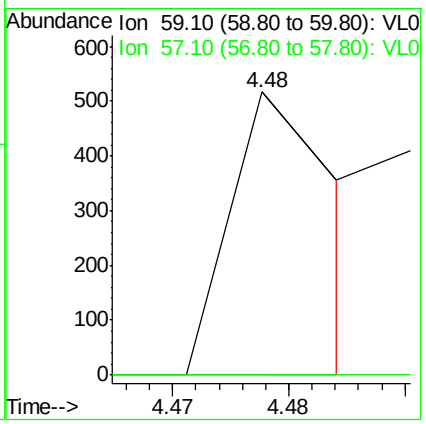


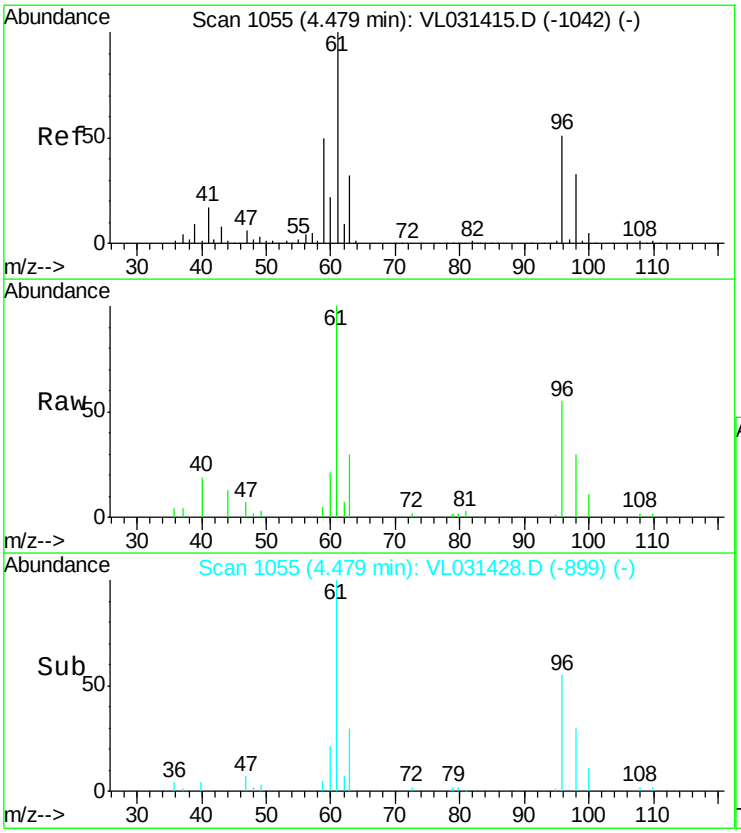
#17
tert-Butyl alcohol
Concen: 0.00 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 59 Resp: 168

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

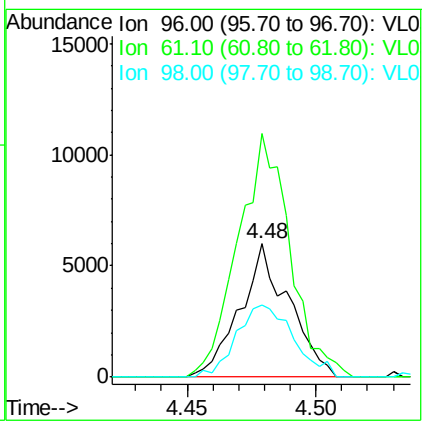


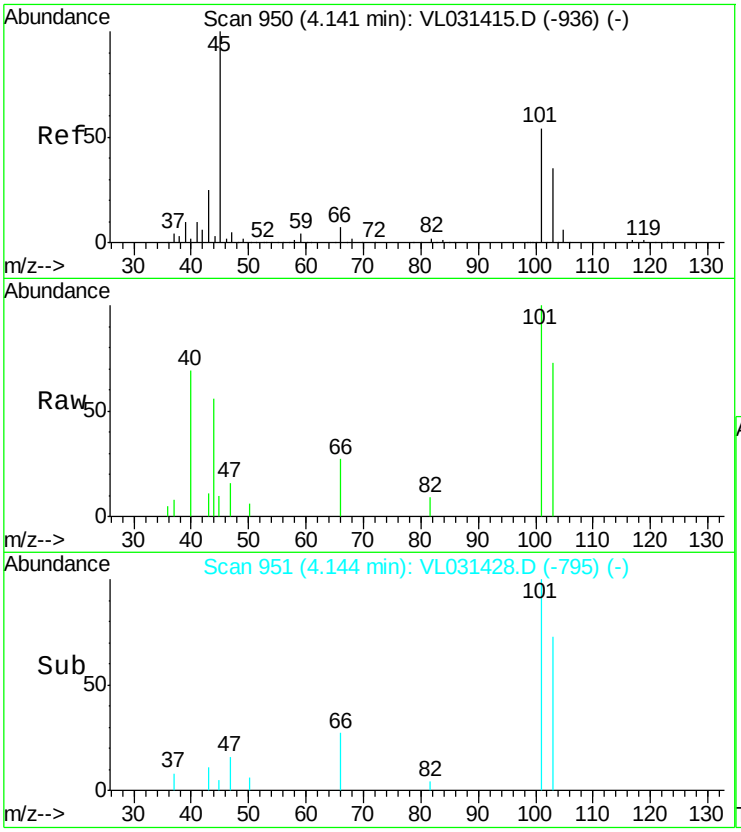


#18
1,1-Dichloroethene
Concen: 0.13 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 96 Resp: 7955

Ion	Ratio	Lower	Upper
96	100		
61	182.8	161.6	242.4
98	54.2	49.6	74.4



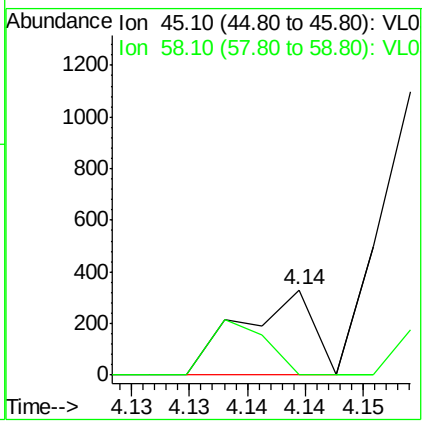


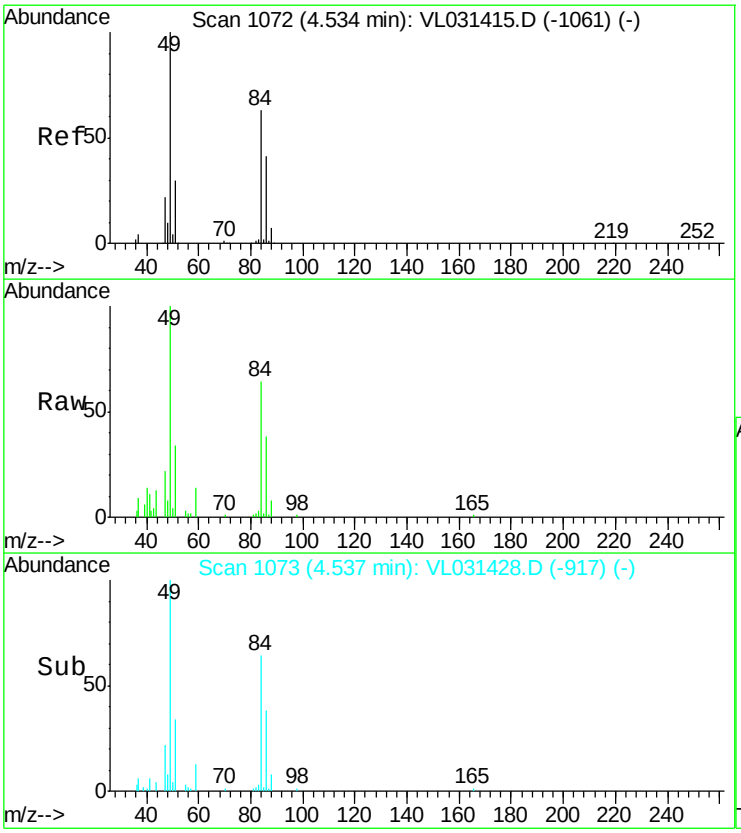
#19
Isopropyl Alcohol
Concen: 0.00 ppbv
RT: 4.14 min Scan# 951
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 45 Resp: 142

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.0	1.4#

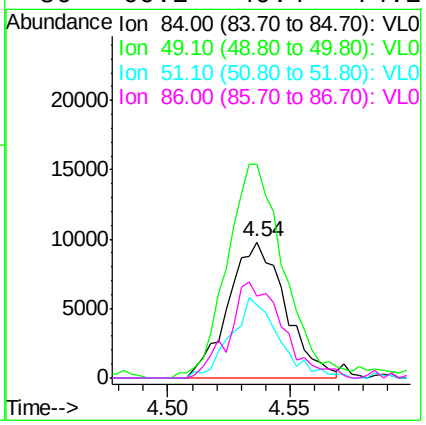


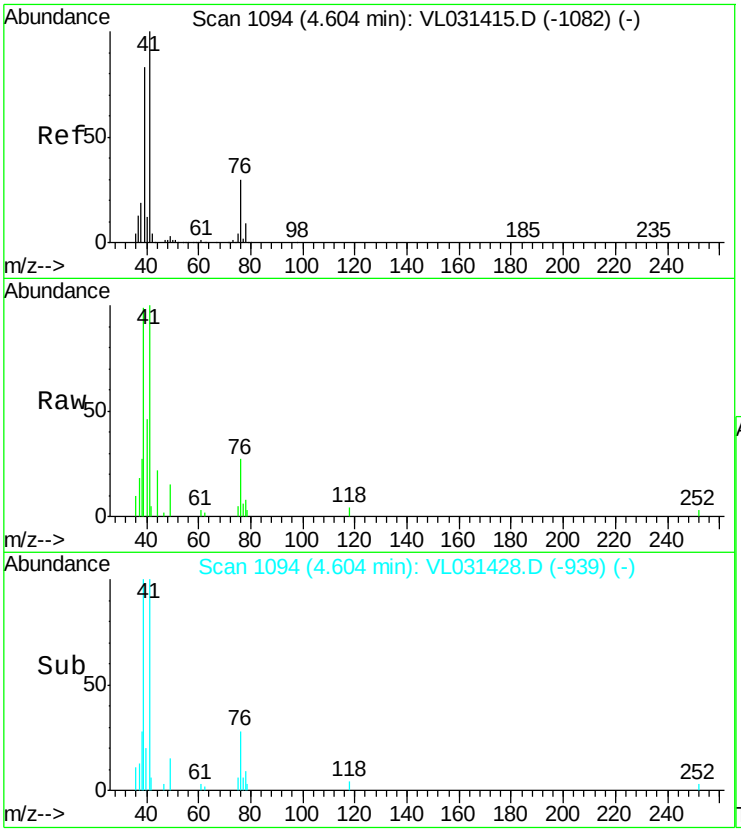


#20
Methylene Chloride
Concen: 0.26 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 84 Resp: 15873

Ion	Ratio	Lower	Upper
84	100		
49	151.2	123.4	185.0
51	54.0	35.6	53.4#
86	60.2	49.4	74.2



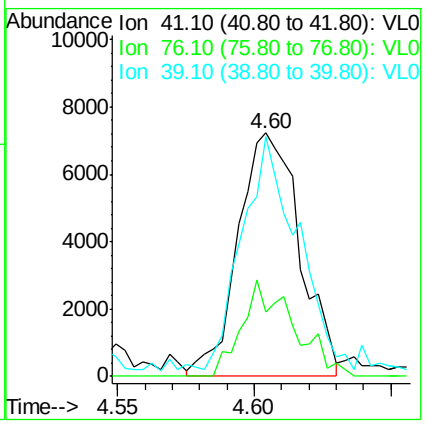


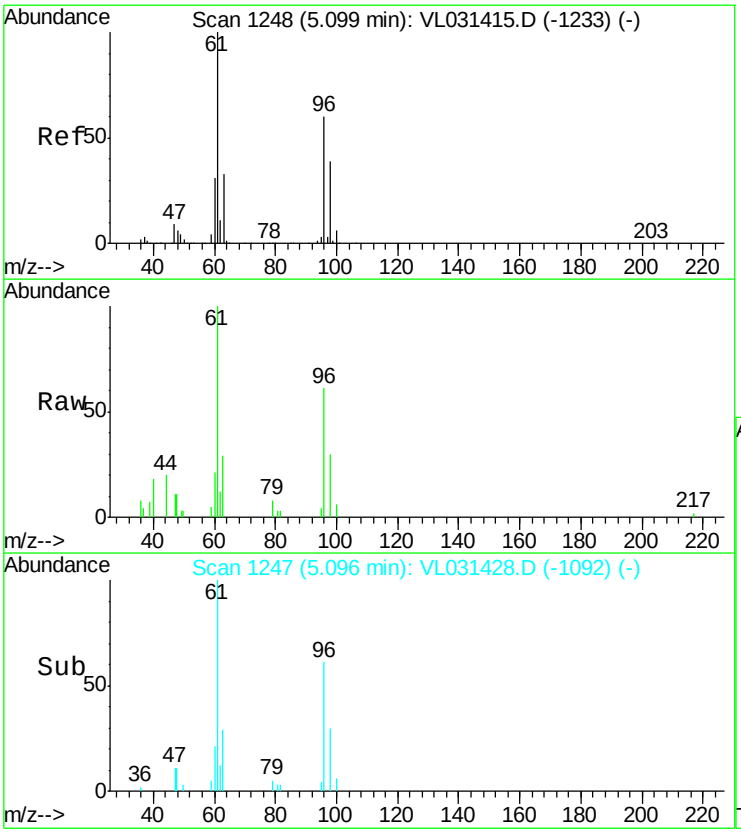
#21
Allyl Chloride
Concen: 0.12 ppbv
RT: 4.60 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 41 Resp: 11349

Ion	Ratio	Lower	Upper
41	100		
76	32.8	24.2	36.2
39	99.1	69.8	104.8

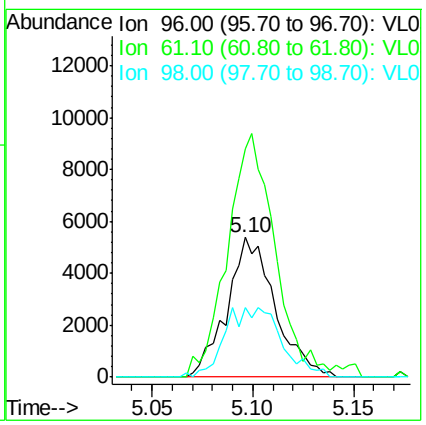


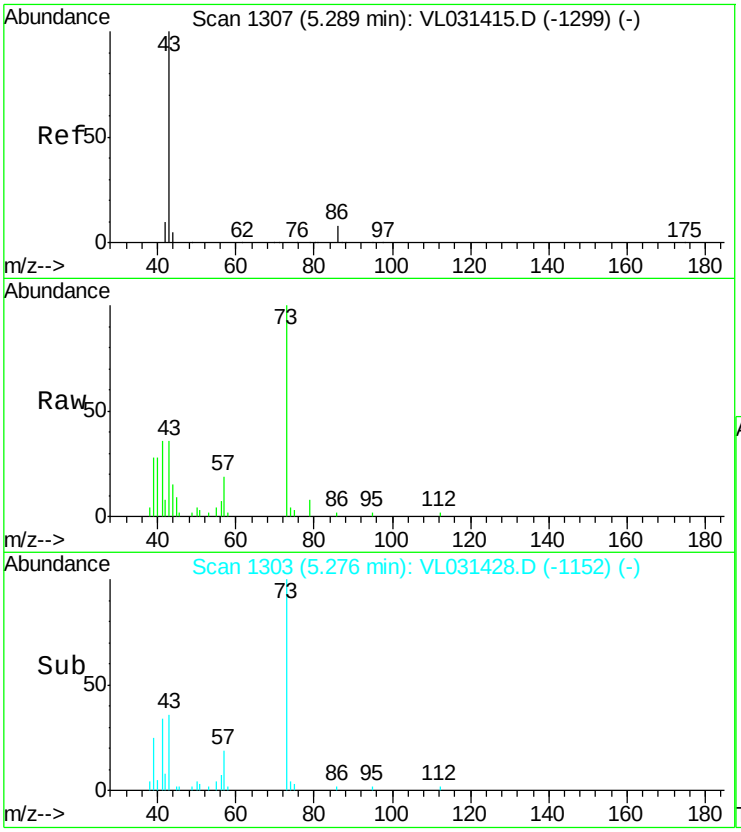


#22
trans-1,2-Dichloroethene
Concen: 0.14 ppbv
RT: 5.10 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 96 Resp: 8950

Ion	Ratio	Lower	Upper
96	100		
61	163.1	135.0	202.4
98	49.5	52.2	78.2#



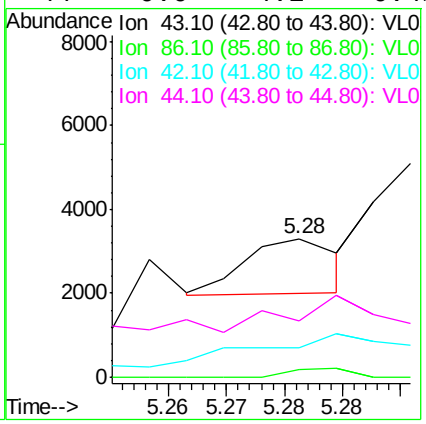


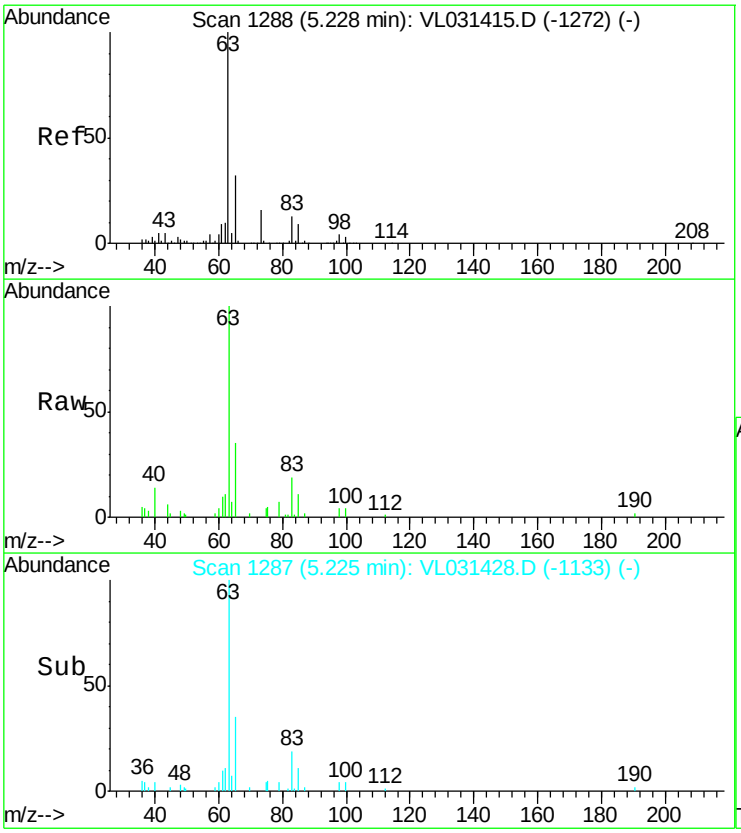
#23
Vinyl Acetate
Concen: 0.00 ppbv
RT: 5.28 min Scan# 1303
Delta R.T. -0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 43 Resp: 734

Ion	Ratio	Lower	Upper
43	100		
86	13.4	5.6	8.4#
42	22.3	8.6	12.8#
44	0.0	4.2	6.4#

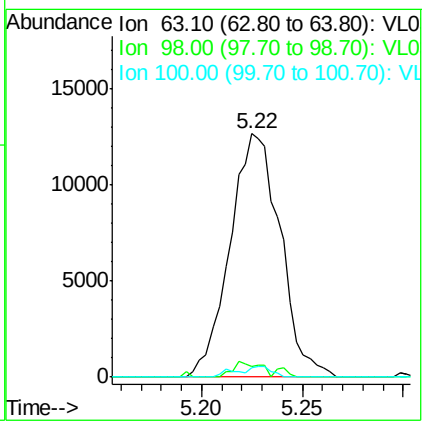


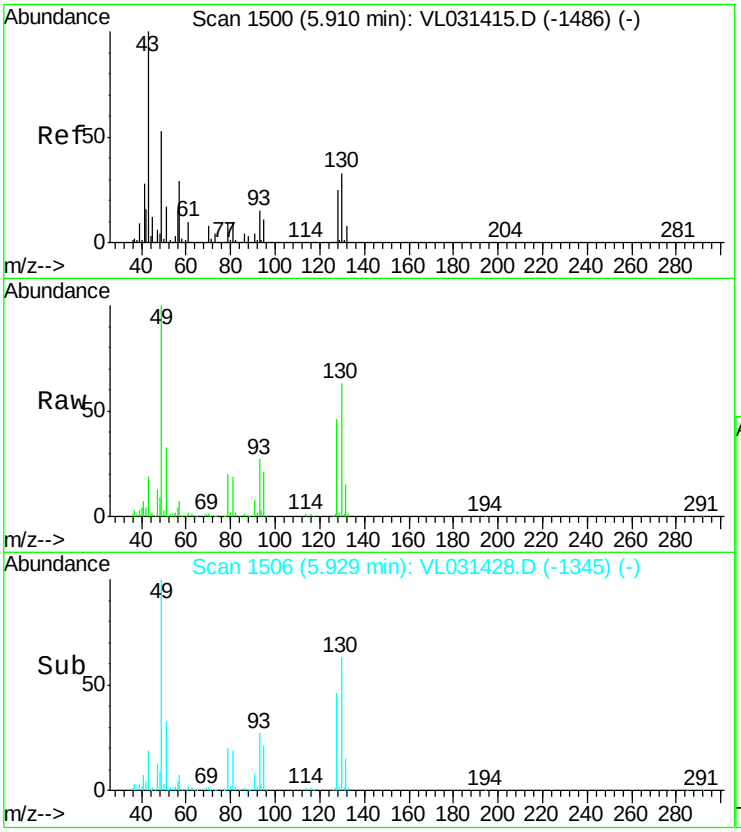


#24
1,1-Dichloroethane
Concen: 0.13 ppbv
RT: 5.22 min Scan# 1287
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 63 Resp: 22063

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.1
100	4.1	1.3	3.9#



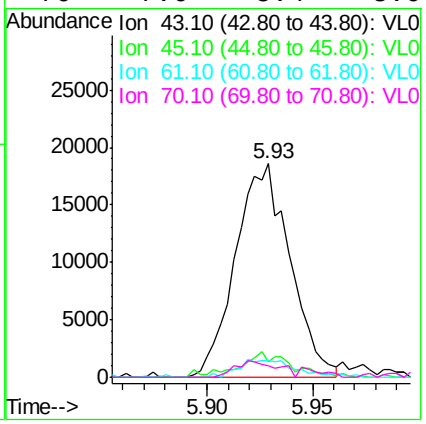


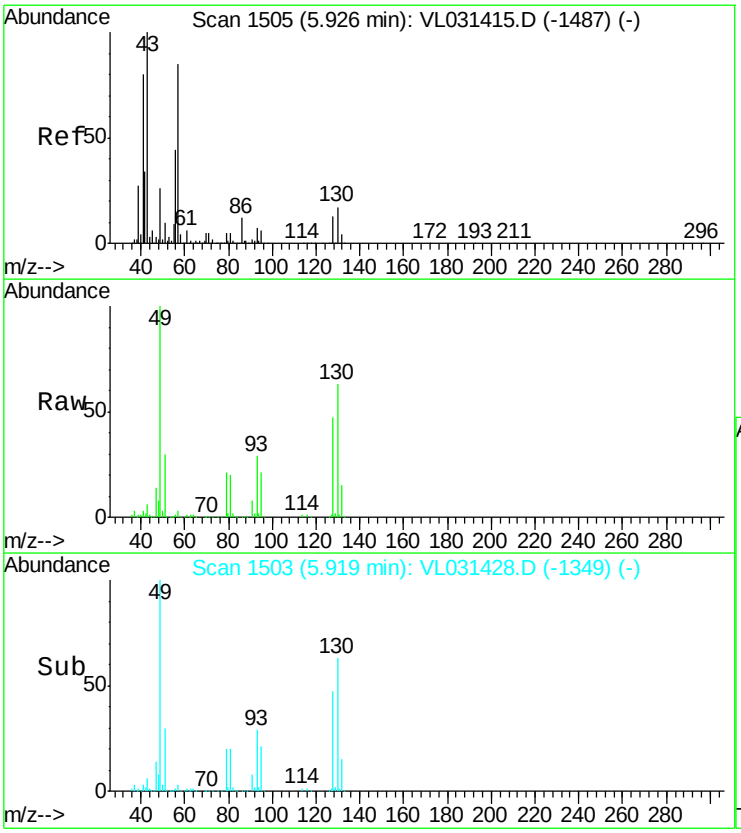
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 43 Resp: 33352

Ion	Ratio	Lower	Upper
43	100		
45	11.7	7.8	11.6#
61	8.9	7.0	10.6
70	7.6	5.4	8.0

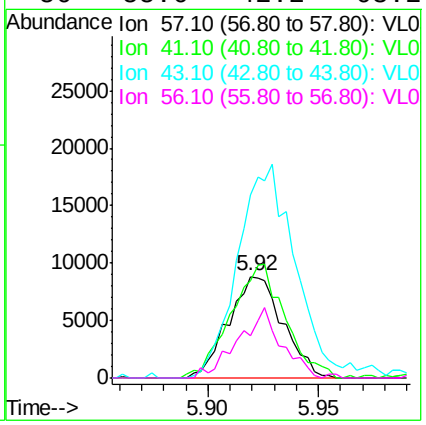


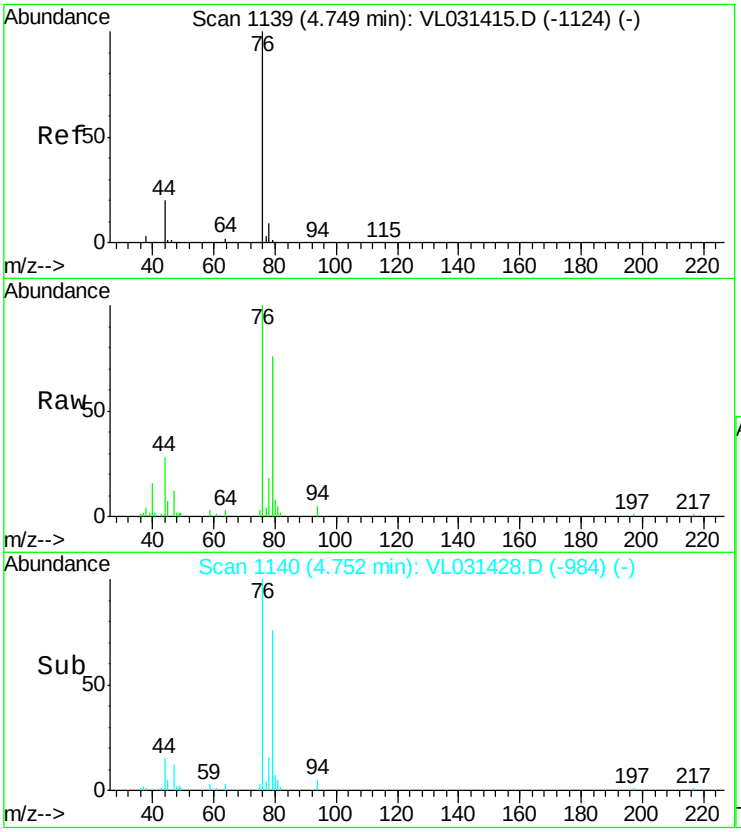


#26
Hexane
Concen: 0.12 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 57 Resp: 15175

Ion	Ratio	Lower	Upper
57	100		
41	112.9	77.1	115.7
43	230.2	180.7	271.1
56	55.6	42.2	63.2



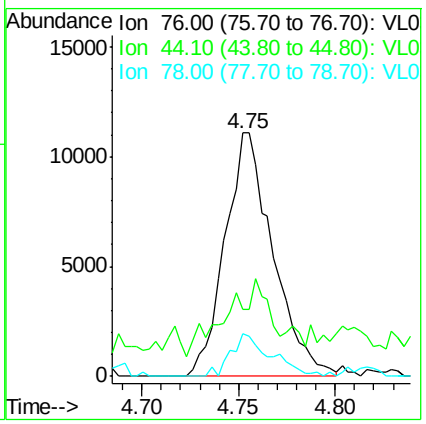


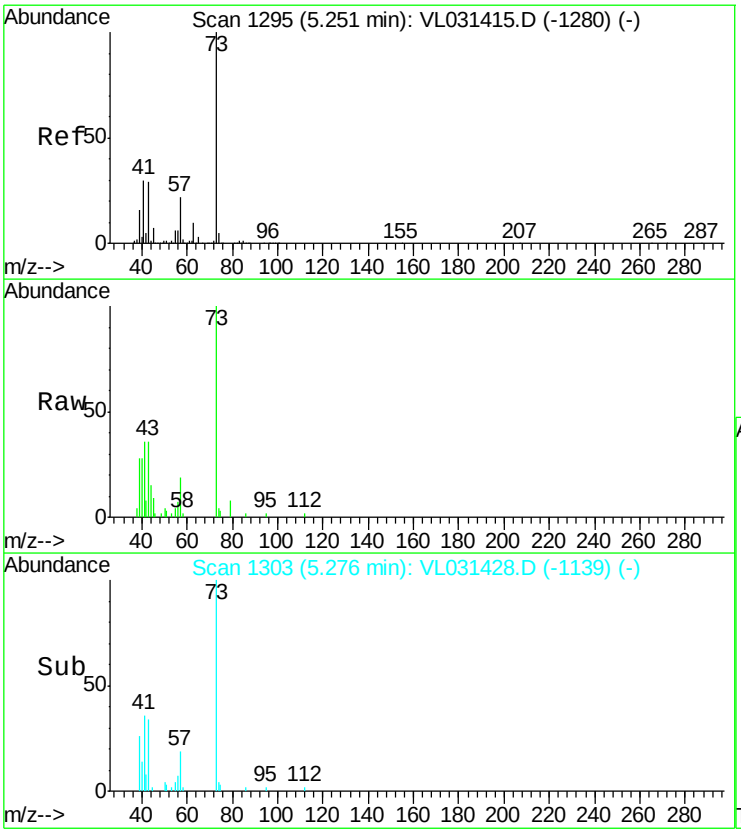
#27
Carbon Disulfide
Concen: 0.12 ppbv
RT: 4.75 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 76 Resp: 19085

Ion	Ratio	Lower	Upper
76	100		
44	50.5	16.7	25.1#
78	14.4	7.5	11.3#

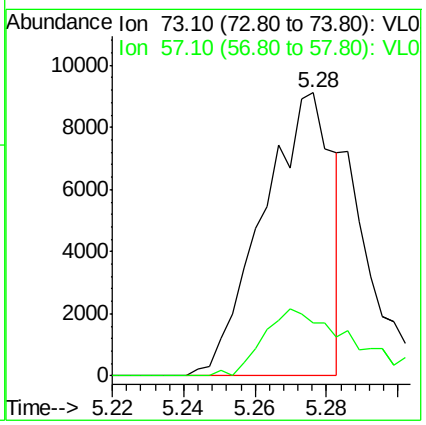


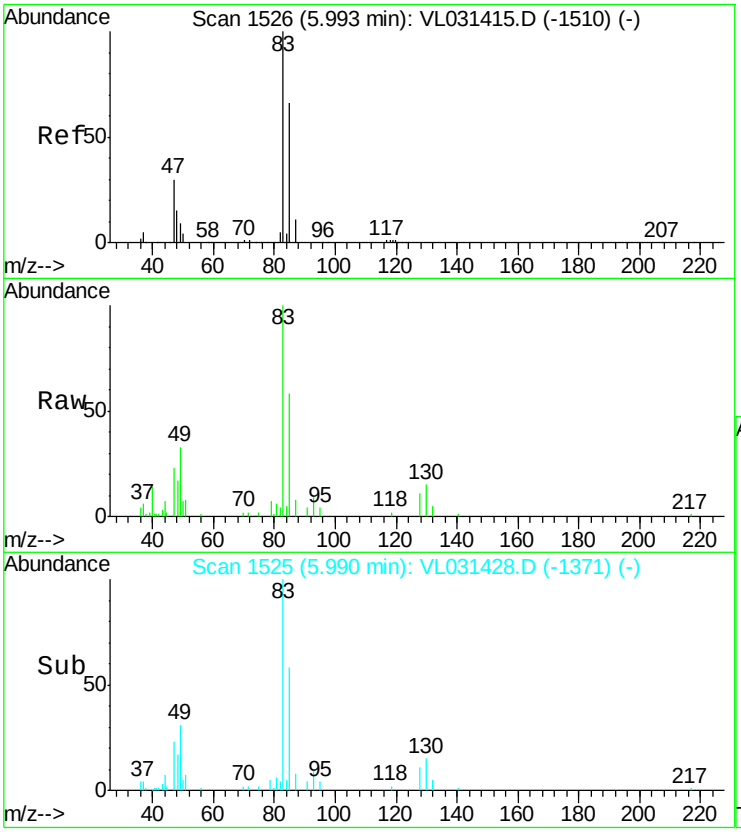


#28
Methyl tert-Butyl Ether
Concen: 0.08 ppbv
RT: 5.28 min Scan# 1303
Delta R.T. 0.03 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 73 Resp: 12380

Ion	Ratio	Lower	Upper
73	100		
57	30.1	17.5	26.3#



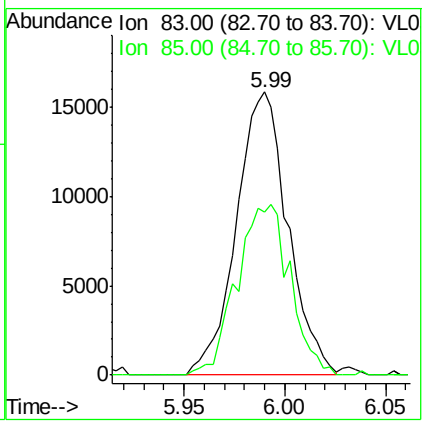


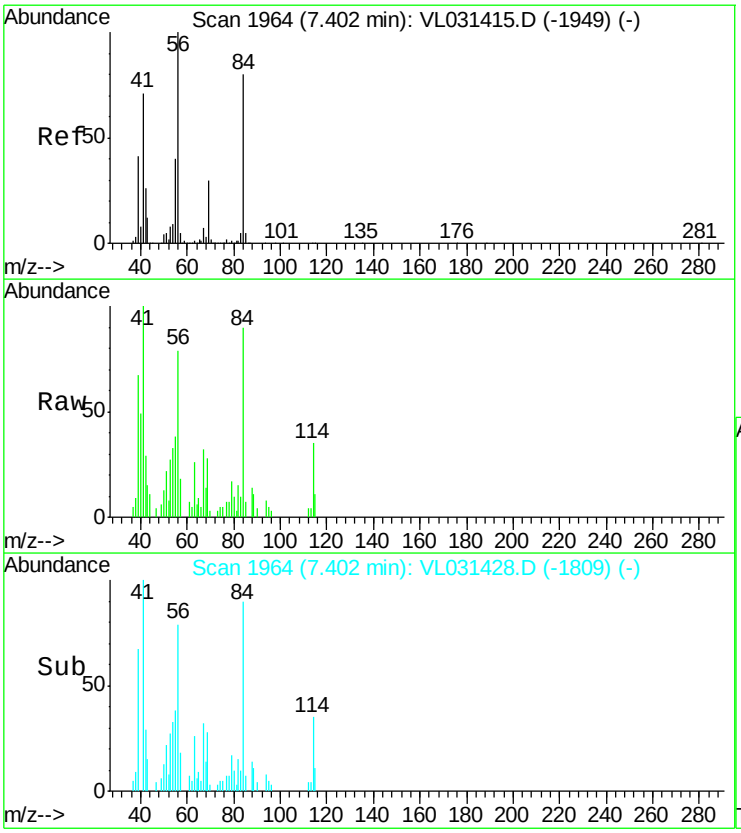
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.99 min Scan# 1525
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 83 Resp: 28232

Ion	Ratio	Lower	Upper
83	100		
85	57.7	51.3	76.9

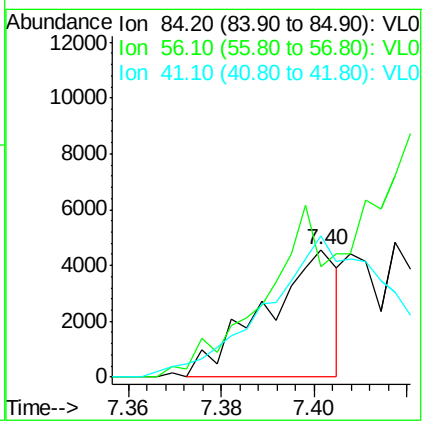


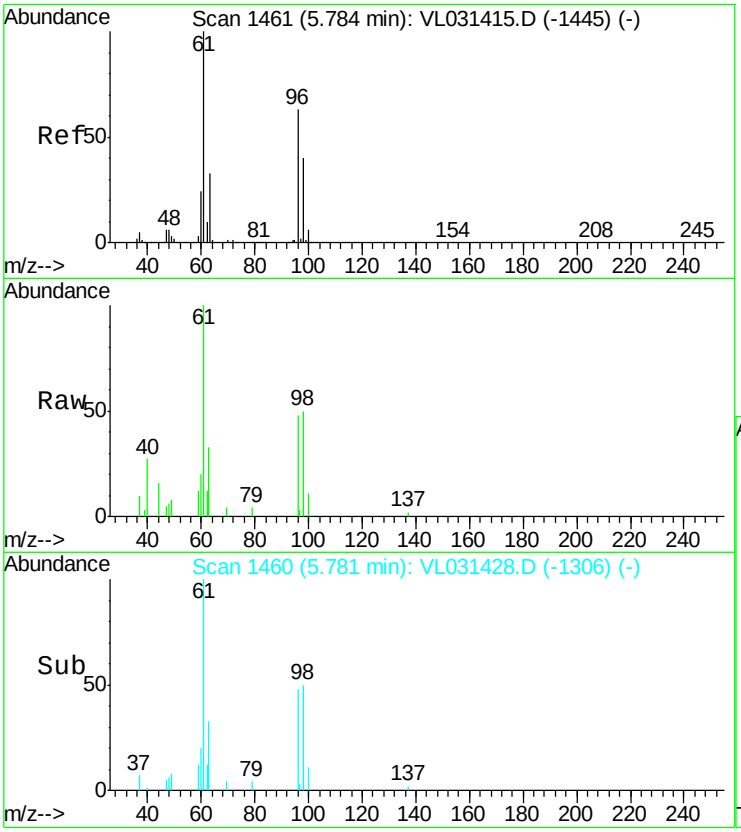


#30
Cyclohexane
Concen: 0.05 ppbv
RT: 7.40 min Scan# 1964
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 84 Resp: 4959

Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.0	163.4#
41	205.5	73.3	109.9#



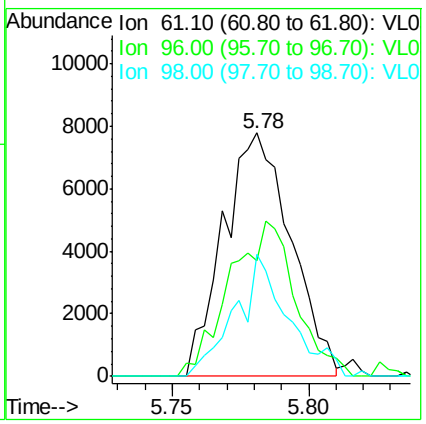


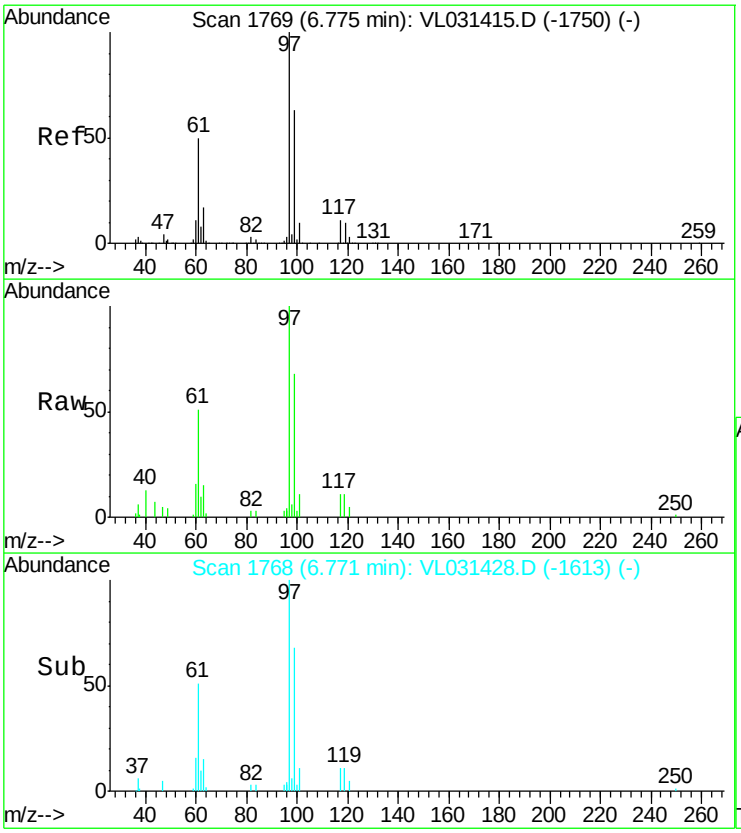
#31
cis-1,2-Dichloroethene
Concen: 0.12 ppbv
RT: 5.78 min Scan# 1460
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 61 Resp: 13391

Ion	Ratio	Lower	Upper
61	100		
96	45.4	51.3	76.9#
98	50.0	33.6	50.4

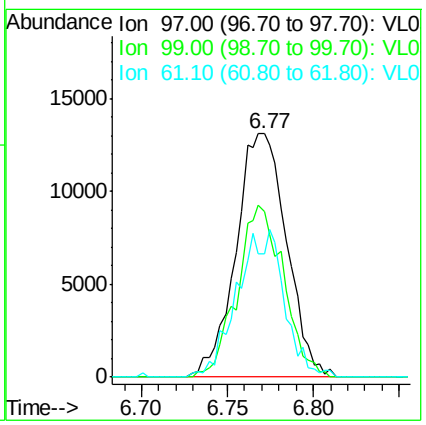


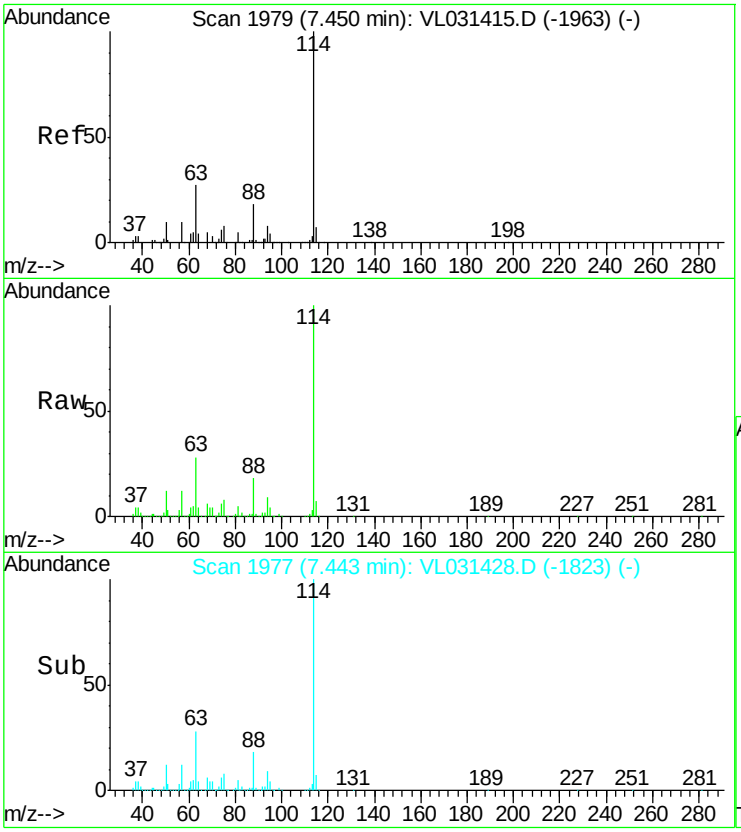


#32
1,1,1-Trichloroethane
Concen: 0.13 ppbv
RT: 6.77 min Scan# 1768
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 97 Resp: 26847

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.9	77.9
61	56.3	40.6	61.0



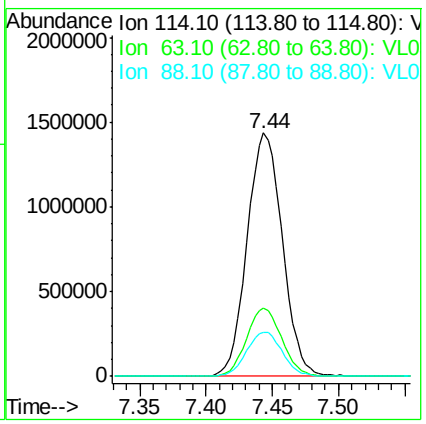


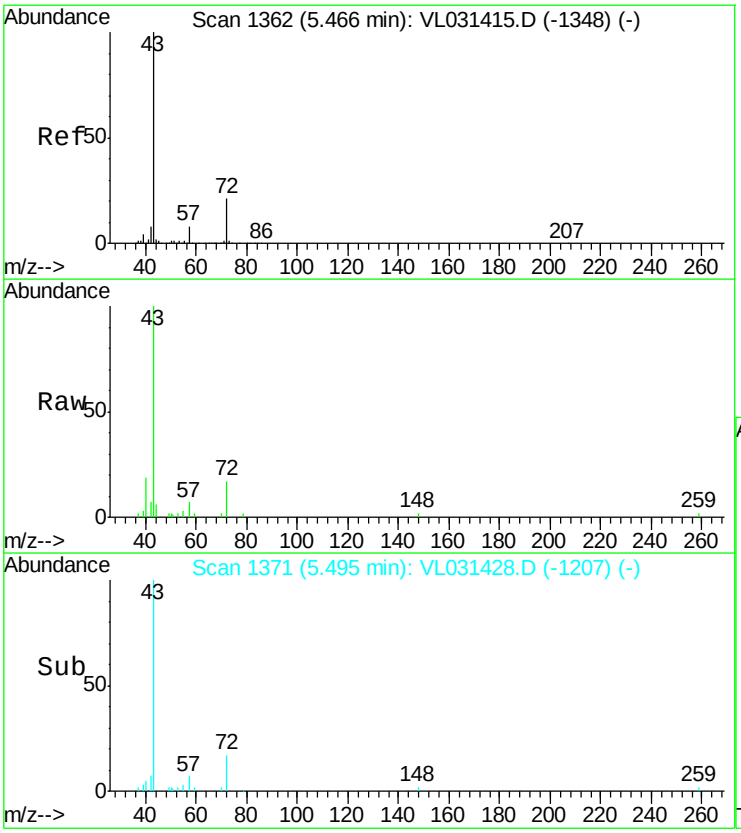
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.44 min Scan# 1977
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:114 Resp: 2662057

Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.5	33.7
88	18.5	14.6	22.0

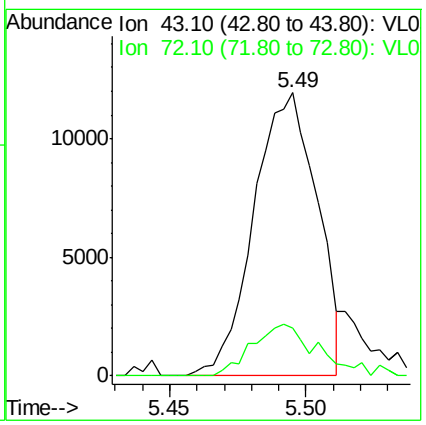


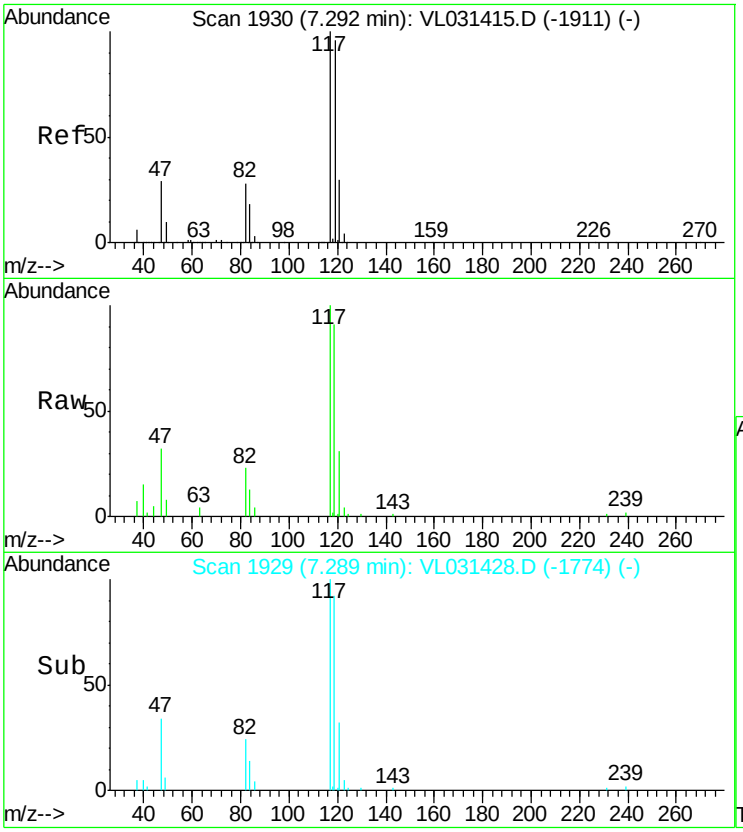


#34
2-Butanone
Concen: 0.11 ppbv
RT: 5.49 min Scan# 1371
Delta R.T. 0.03 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 43 Resp: 19137

Ion	Ratio	Lower	Upper
43	100		
72	19.3	16.8	25.2



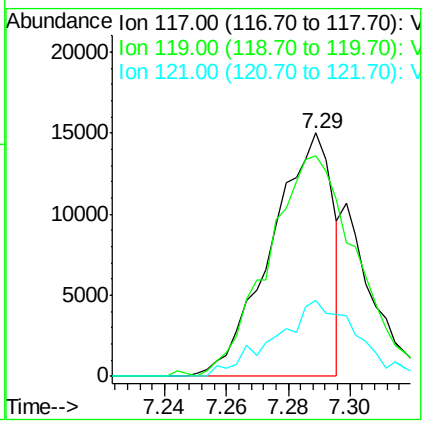


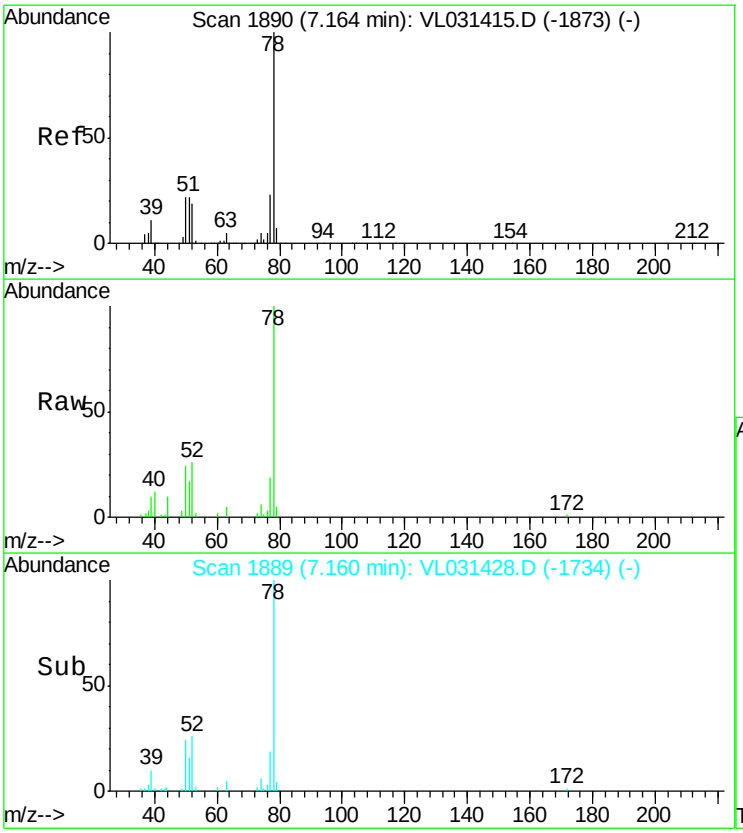
#35
Carbon Tetrachloride
Concen: 0.10 ppbv
RT: 7.29 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:117 Resp: 20666

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.2	111.4
121	31.1	24.2	36.4

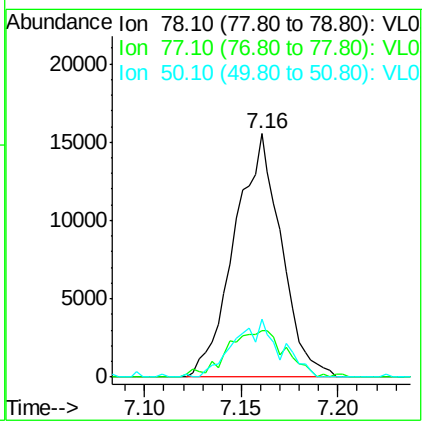


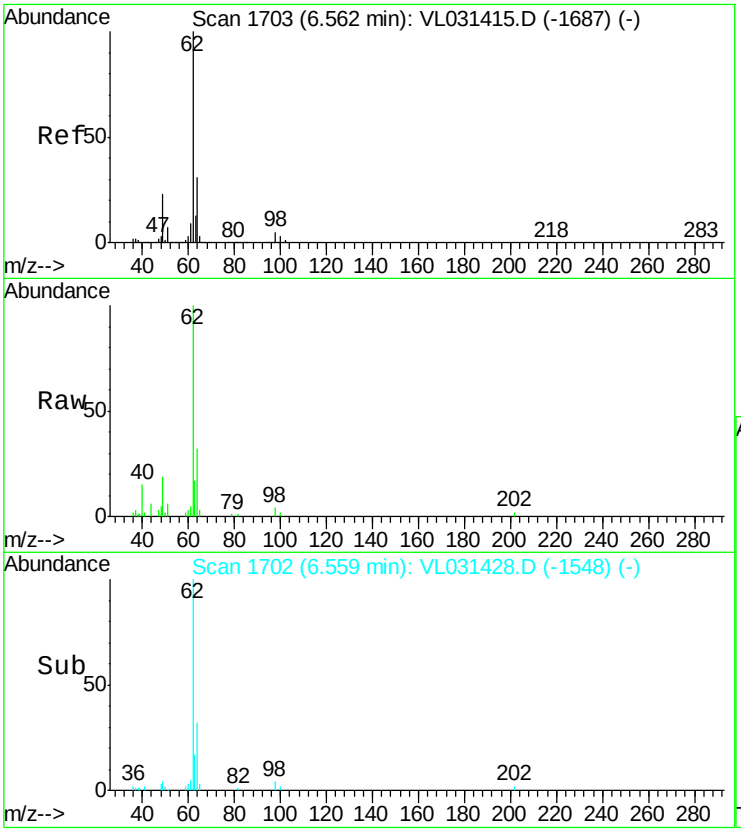


#36
Benzene
Concen: 0.11 ppbv
RT: 7.16 min Scan# 1889
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 78 Resp: 26150

Ion	Ratio	Lower	Upper
78	100		
77	18.1	18.7	28.1#
50	24.0	18.4	27.6



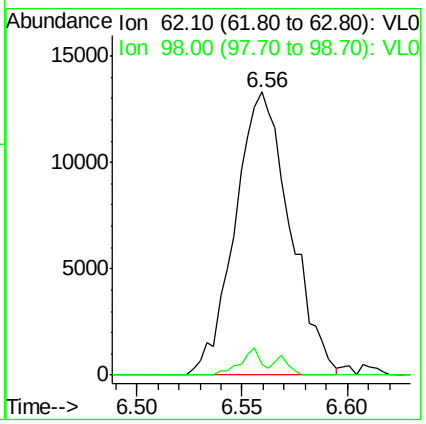


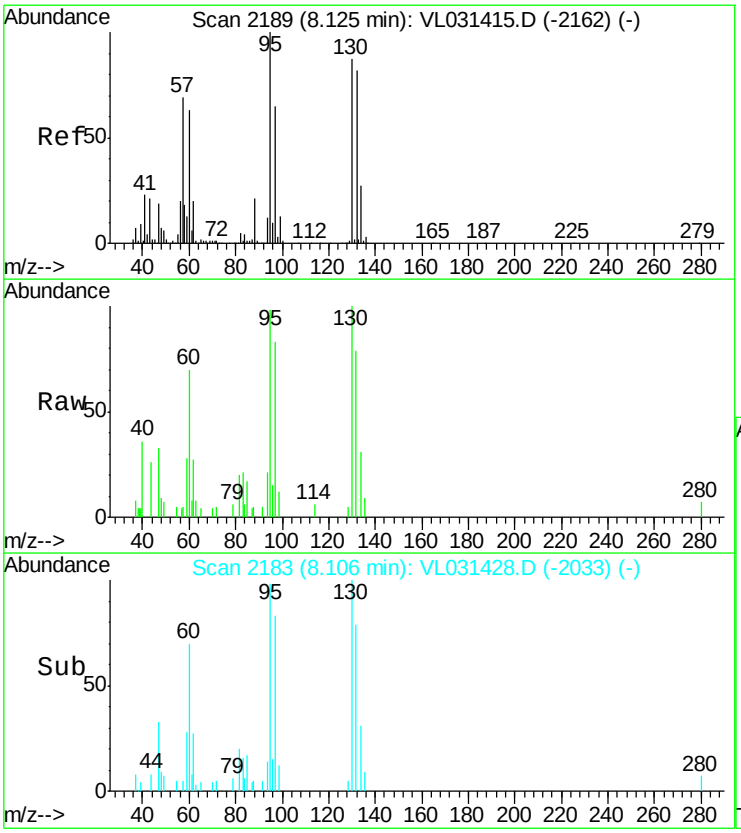
#37
1,2-Dichloroethane
Concen: 0.13 ppbv
RT: 6.56 min Scan# 1702
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 62 Resp: 24126

Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.1	6.1

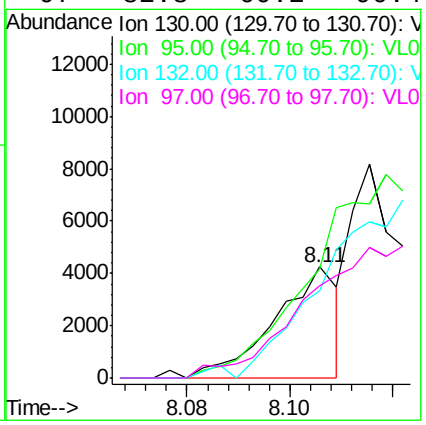


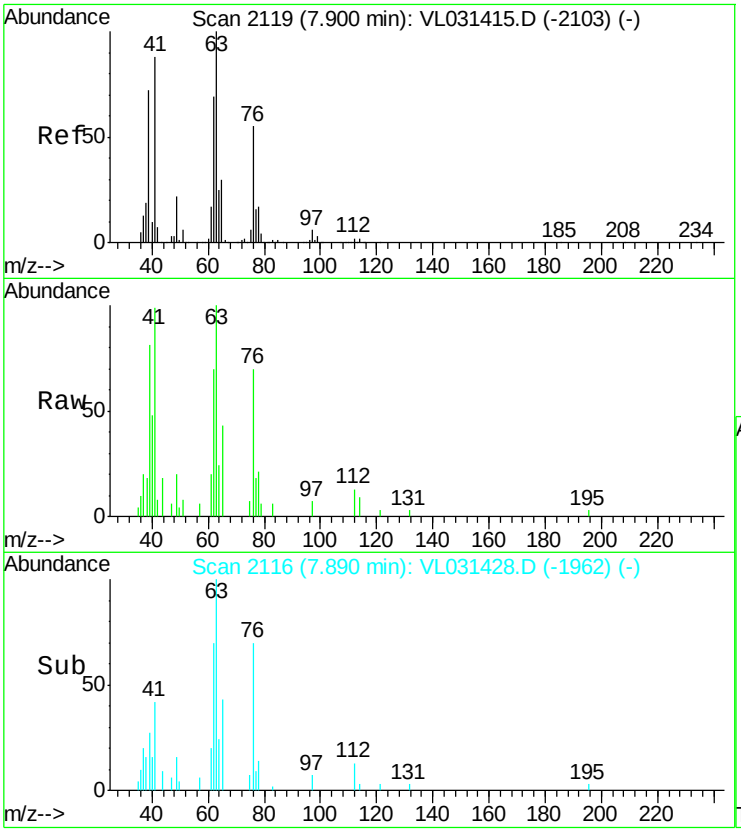


#38
Trichloroethene
Concen: 0.04 ppbv
RT: 8.11 min Scan# 2183
Delta R.T. -0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:130 Resp: 3593

Ion	Ratio	Lower	Upper
130	100		
95	113.9	92.9	139.3
132	78.7	74.9	112.3
97	82.8	60.2	90.4



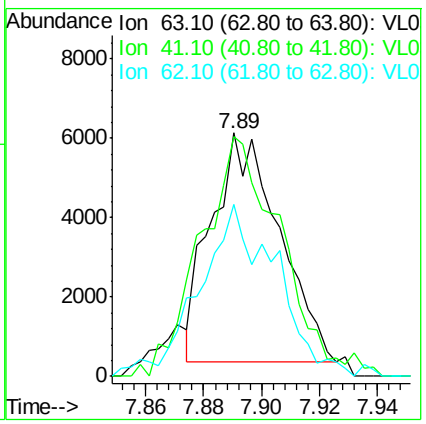


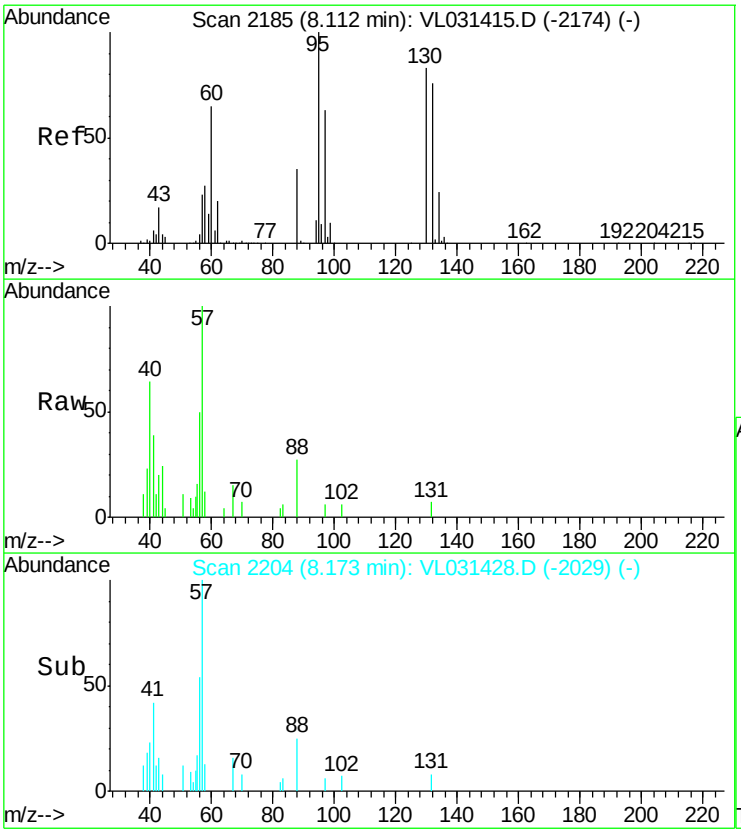
#39
1,2-Dichloropropane
Concen: 0.11 ppbv
RT: 7.89 min Scan# 2116
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 63 Resp: 9373

Ion	Ratio	Lower	Upper
63	100		
41	96.9	67.6	101.4
62	68.6	51.8	77.6

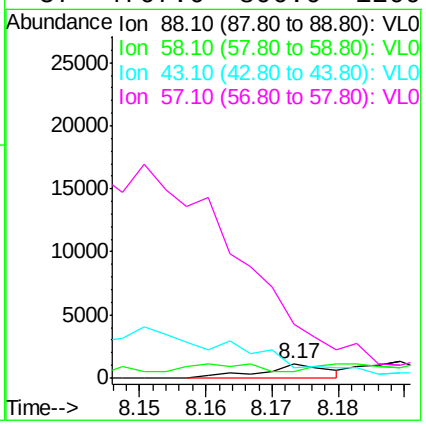


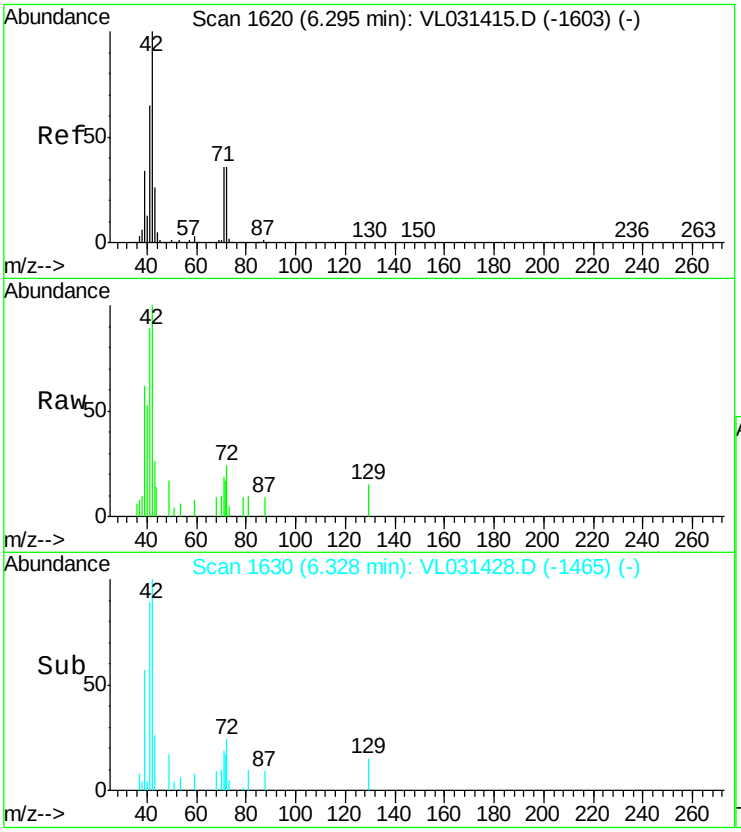


#40
1,4-Dioxane
Concen: 0.02 ppbv
RT: 8.17 min Scan# 2204
Delta R.T. 0.06 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 88 Resp: 802

Ion	Ratio	Lower	Upper
88	100		
58	0.0	98.2	147.2#
43	1043.4	197.3	295.9#
57	4767.0	806.0	1209.0#



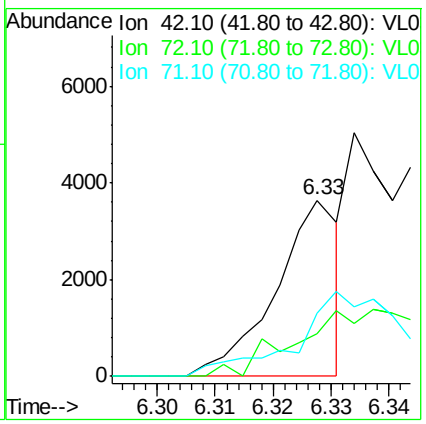


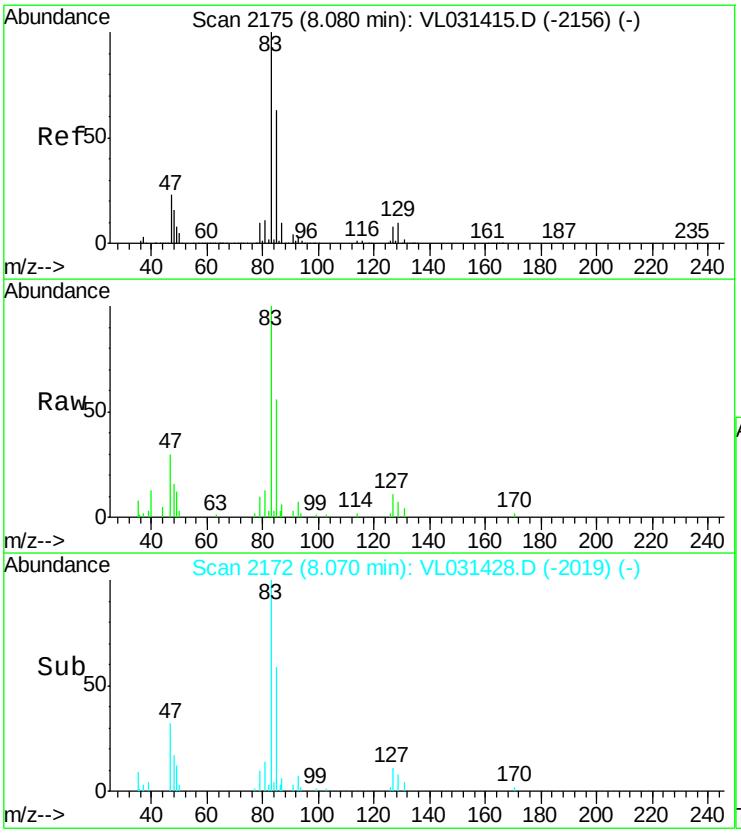
#41
Tetrahydrofuran
Concen: 0.03 ppbv
RT: 6.33 min Scan# 1630
Delta R.T. 0.03 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 42 Resp: 2771

Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.4	45.6#
71	113.4	29.2	43.8#

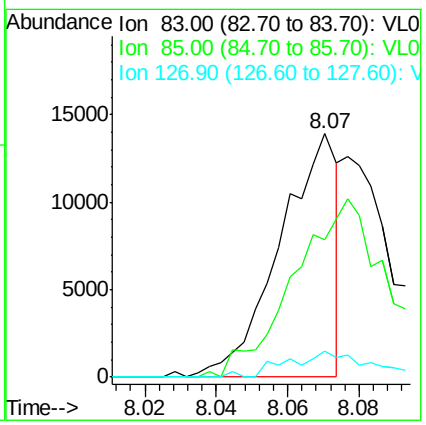


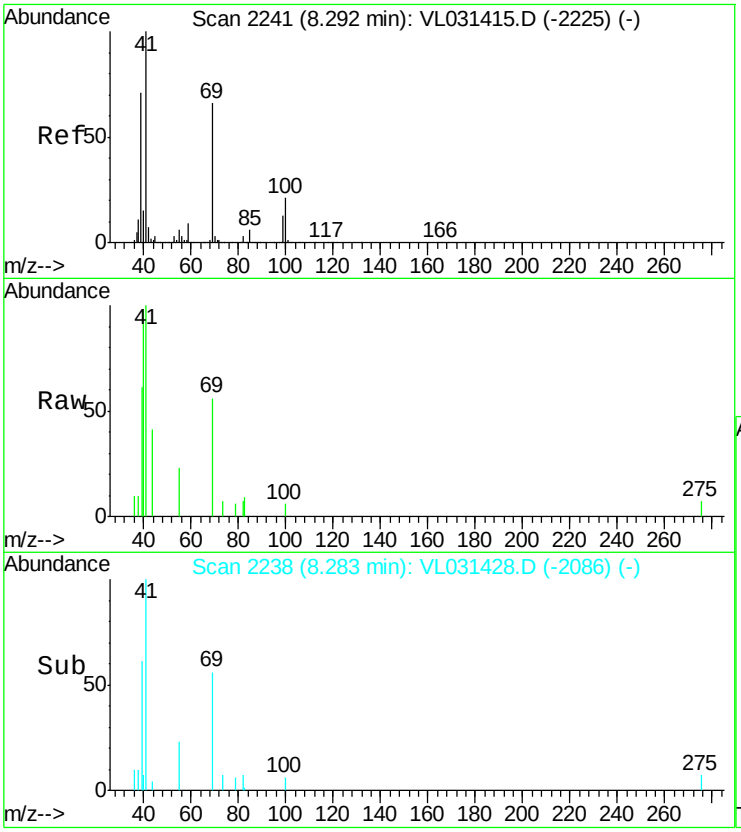


#42
Bromodichloromethane
Concen: 0.07 ppbv
RT: 8.07 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 83 Resp: 15612

Ion	Ratio	Lower	Upper
83	100		
85	56.5	52.1	78.1
127	10.8	6.6	10.0#



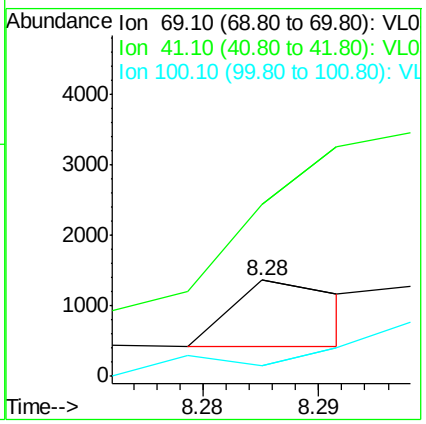


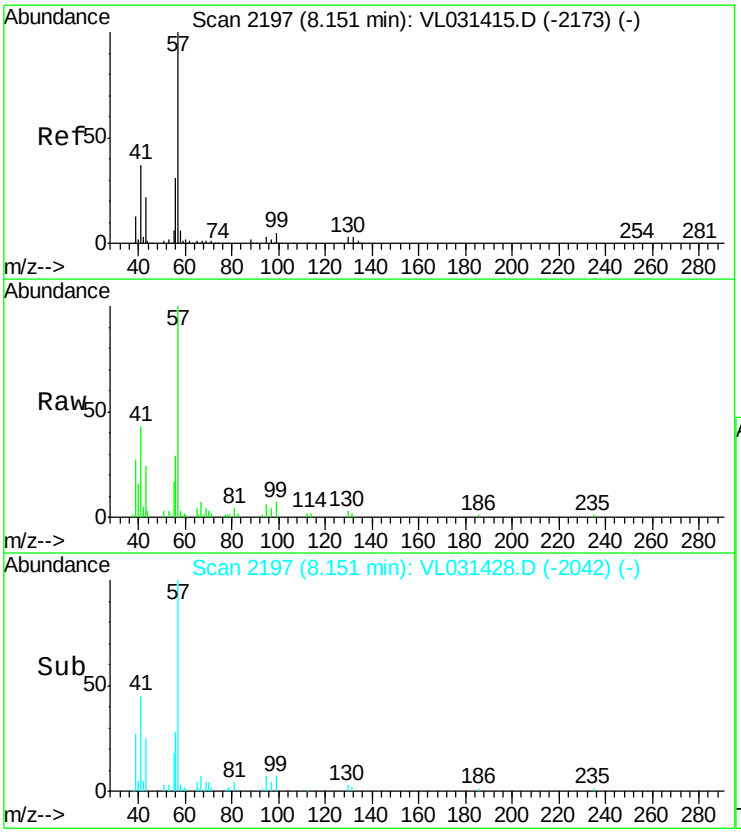
#43
Methyl Methacrylate
Concen: 0.00 ppbv
RT: 8.28 min Scan# 2238
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 69 Resp: 326

Ion	Ratio	Lower	Upper
69	100		
41	0.0	127.0	190.6#
100	0.0	24.6	37.0#

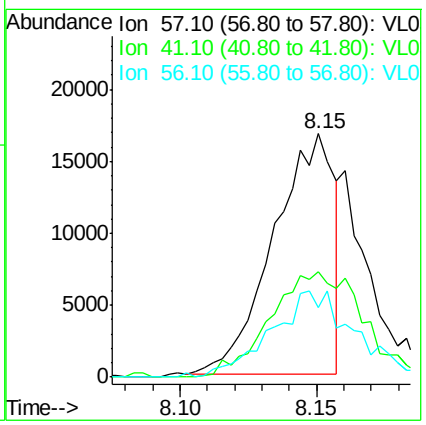


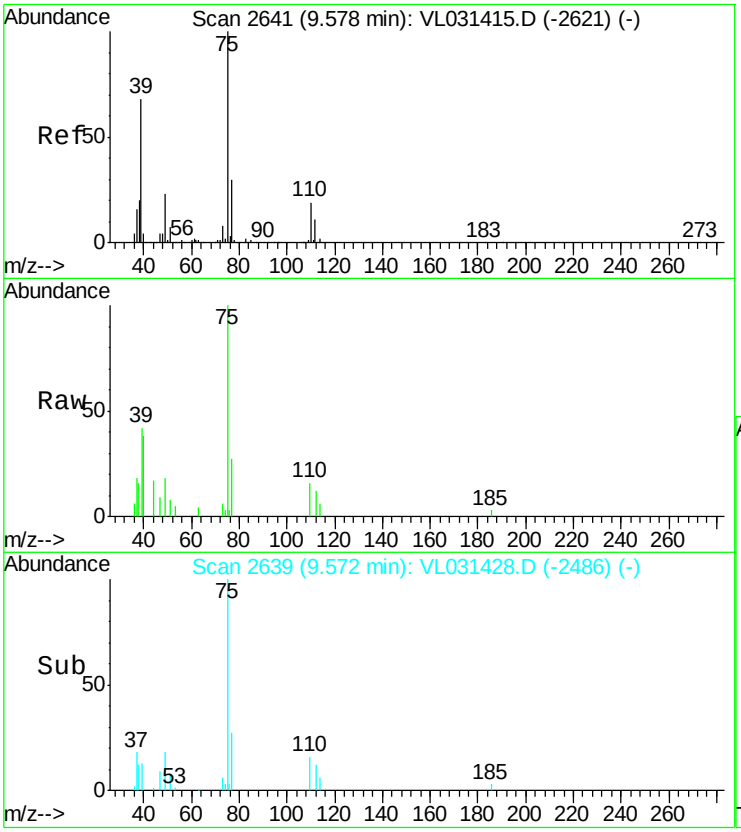


#44
2,2,4-Trimethylpentane
Concen: 0.06 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 57 Resp: 25905

Ion	Ratio	Lower	Upper
57	100		
41	67.2	28.8	43.2#
56	49.0	24.6	37.0#



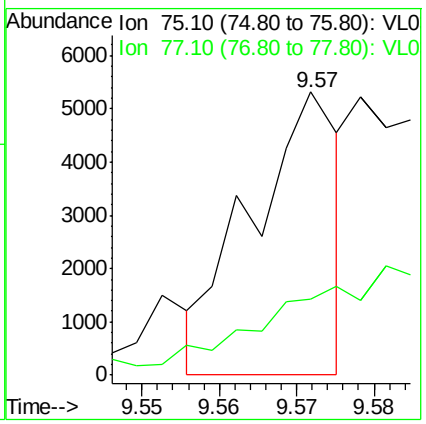


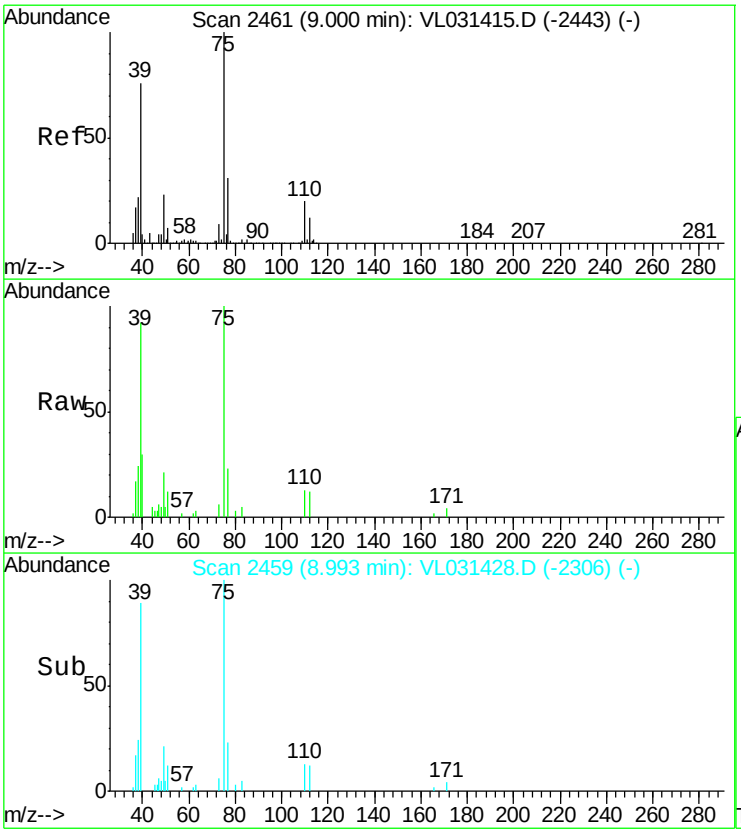
#45
t-1,3-Dichloropropene
Concen: 0.03 ppbv
RT: 9.57 min Scan# 2639
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 75 Resp: 4198

Ion	Ratio	Lower	Upper
75	100		
77	26.9	25.3	37.9

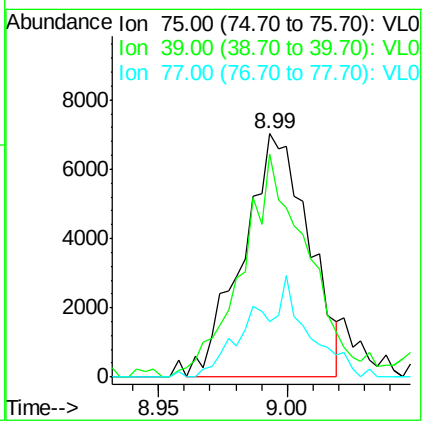


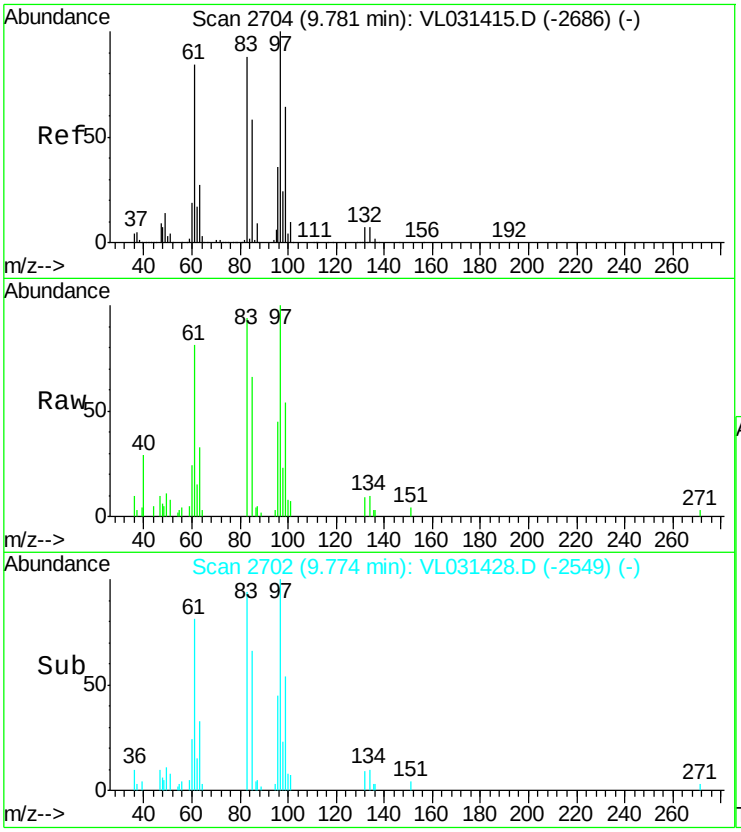


#46
cis-1,3-Dichloropropene
Concen: 0.08 ppbv
RT: 8.99 min Scan# 2459
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 75 Resp: 12506

Ion	Ratio	Lower	Upper
75	100		
39	87.9	59.4	89.0
77	23.0	25.0	37.4#



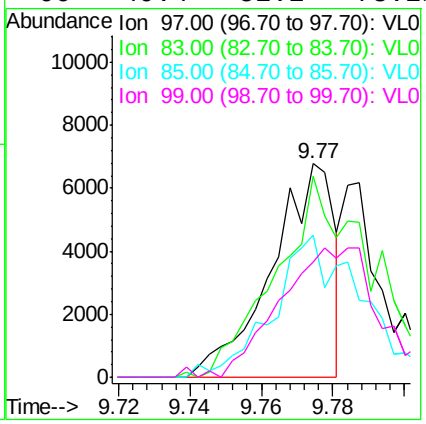


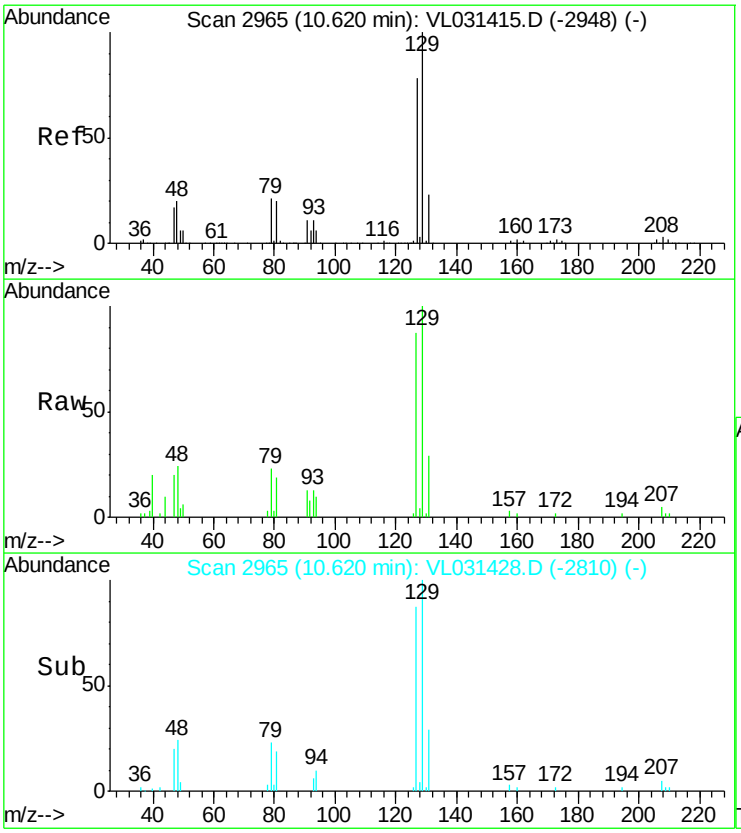
#47
1,1,2-Trichloroethane
Concen: 0.08 ppbv
RT: 9.77 min Scan# 2702
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 97 Resp: 8211

Ion	Ratio	Lower	Upper
97	100		
83	91.7	71.4	107.2
85	66.4	46.2	69.2
99	49.4	52.2	78.2#

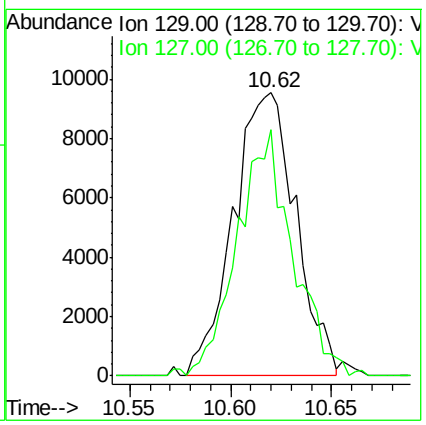


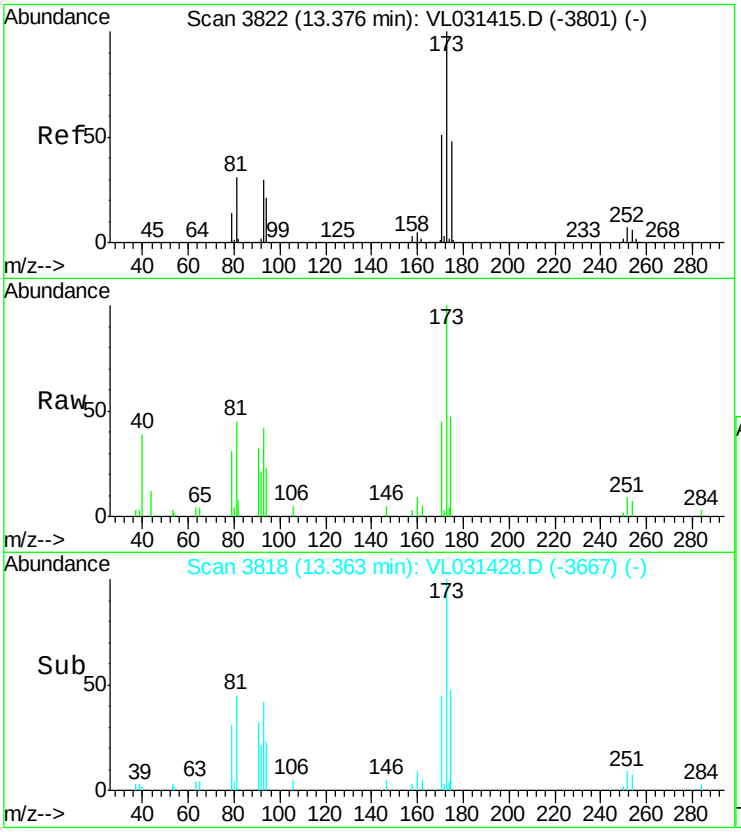


#48
Dibromochloromethane
Concen: 0.11 ppbv
RT: 10.62 min Scan# 2965
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:129 Resp: 20556

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.4	118.1



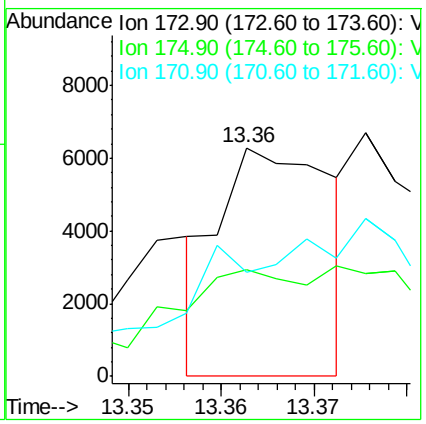


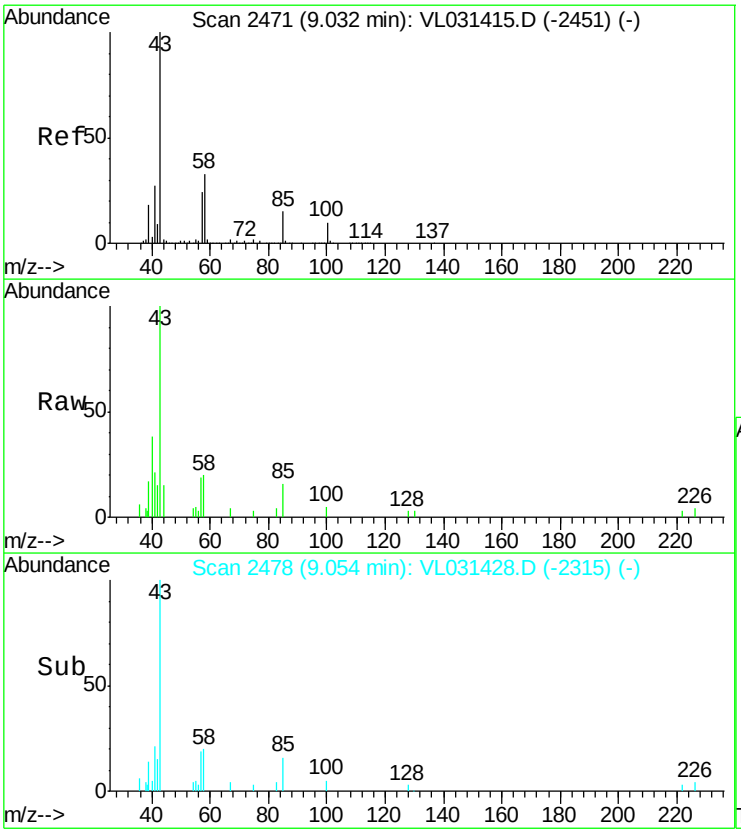
#49
Bromoform
Concen: 0.04 ppbv
RT: 13.36 min Scan# 3818
Delta R.T. -0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion:173 Resp: 5270

Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.0	58.4#
171	0.0	42.0	63.0#

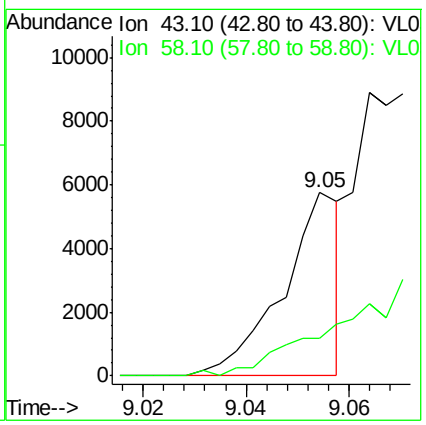


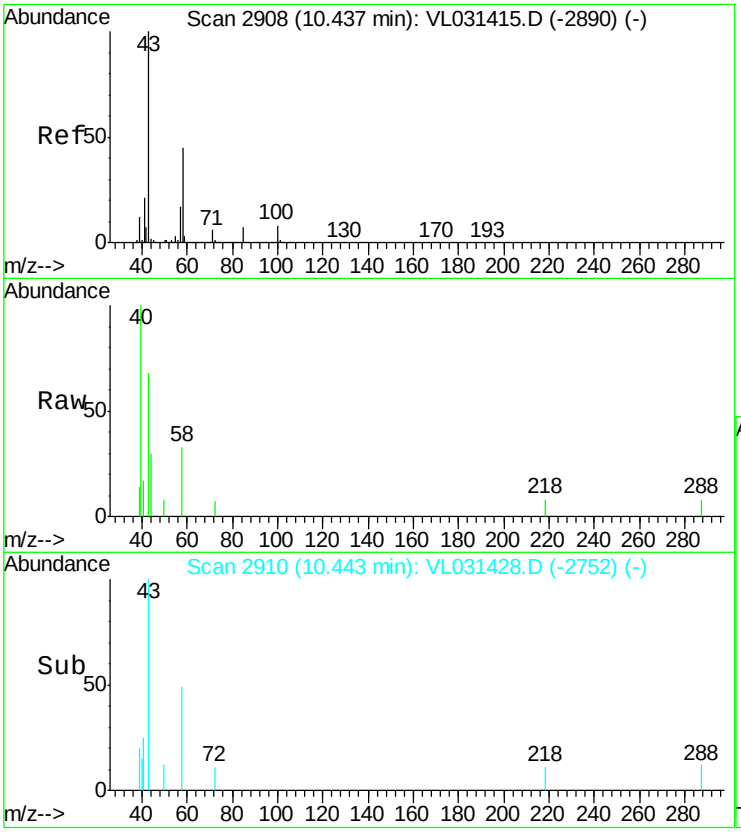


#50
4-Methyl-2-Pentanone
Concen: 0.02 ppbv
RT: 9.05 min Scan# 2478
Delta R.T. 0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 43 Resp: 4448

Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.1	40.7#



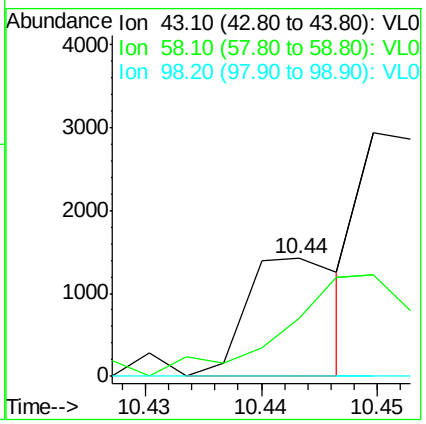


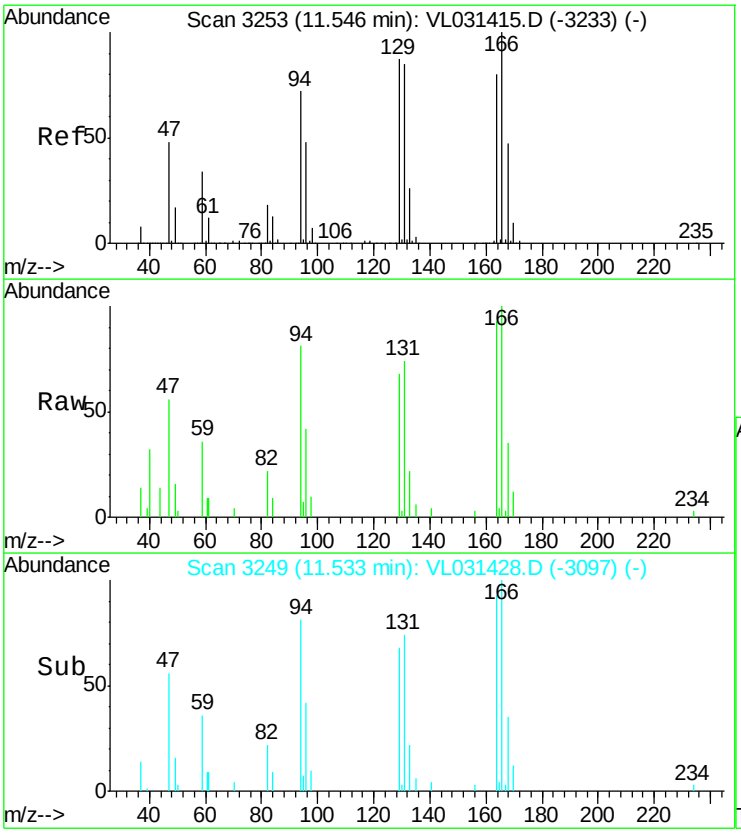
#51
2-Hexanone
Concen: 0.00 ppbv
RT: 10.44 min Scan# 2910
Delta R.T. 0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 43 Resp: 819

Ion	Ratio	Lower	Upper
43	100		
58	0.0	36.2	54.4#
98	0.0	0.1	0.1#

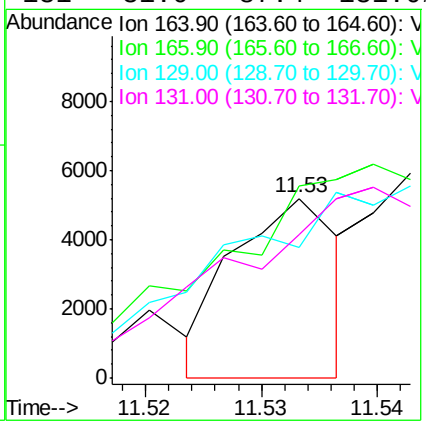


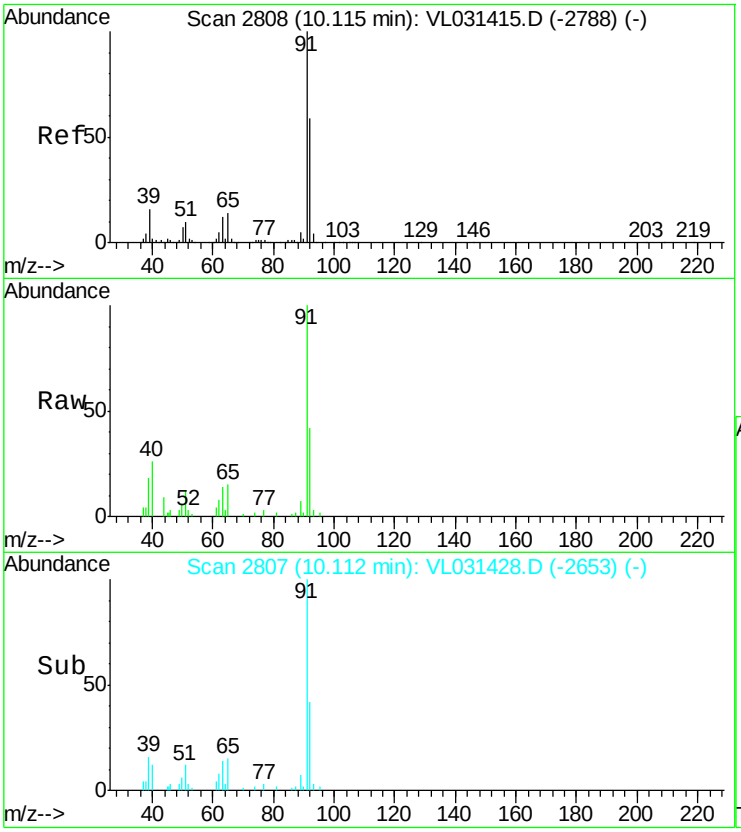


#52
Tetrachloroethene
Concen: 0.04 ppbv
RT: 11.53 min Scan# 3249
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:164 Resp: 3278

Ion	Ratio	Lower	Upper
164	100		
166	76.5	100.2	150.2#
129	33.1	91.4	137.0#
131	31.0	87.4	131.0#



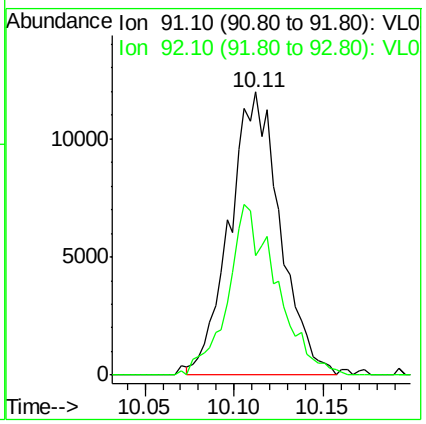


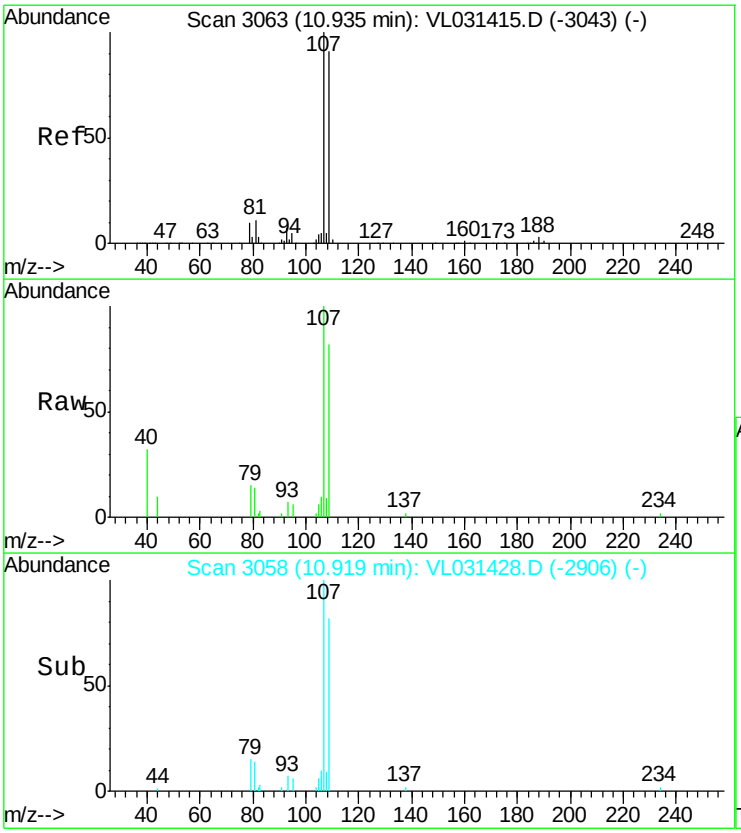
#53
Toluene
Concen: 0.08 ppbv
RT: 10.11 min Scan# 2807
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 91 Resp: 23654

Ion	Ratio	Lower	Upper
91	100		
92	58.1	47.8	71.6

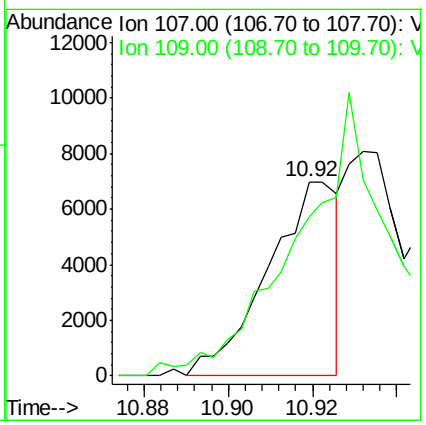


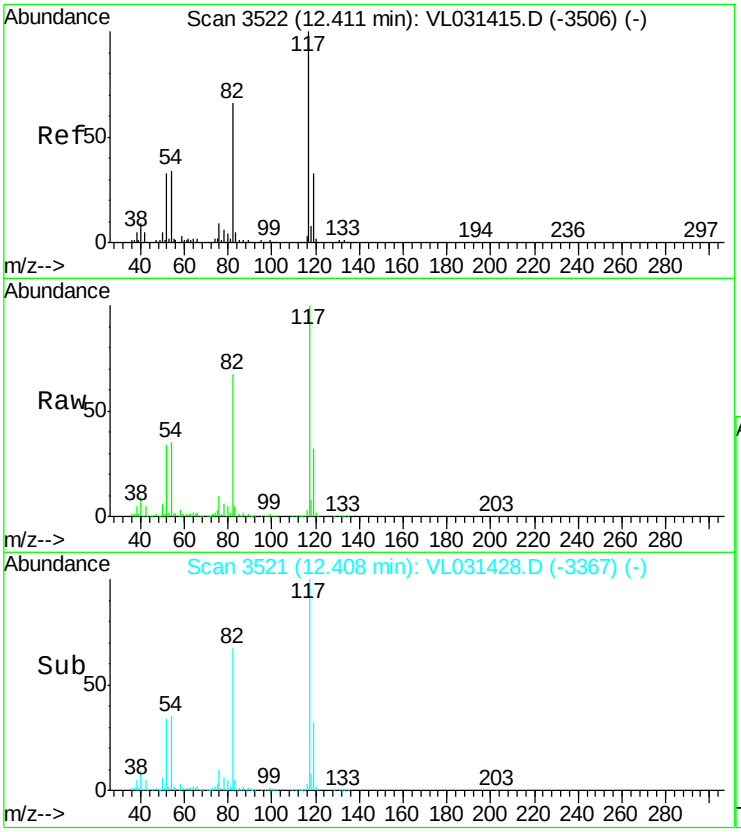


#54
1,2-Dibromoethane
Concen: 0.05 ppbv
RT: 10.92 min Scan# 3058
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:107 Resp: 8056

Ion	Ratio	Lower	Upper
107	100		
109	76.9	75.5	113.3



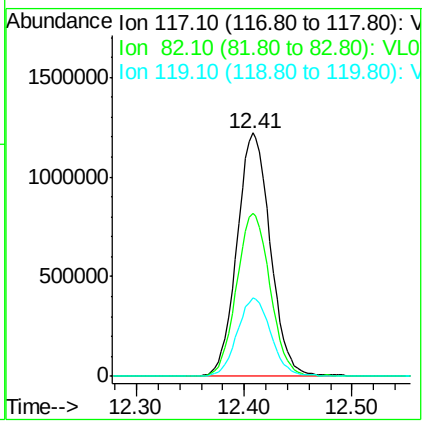


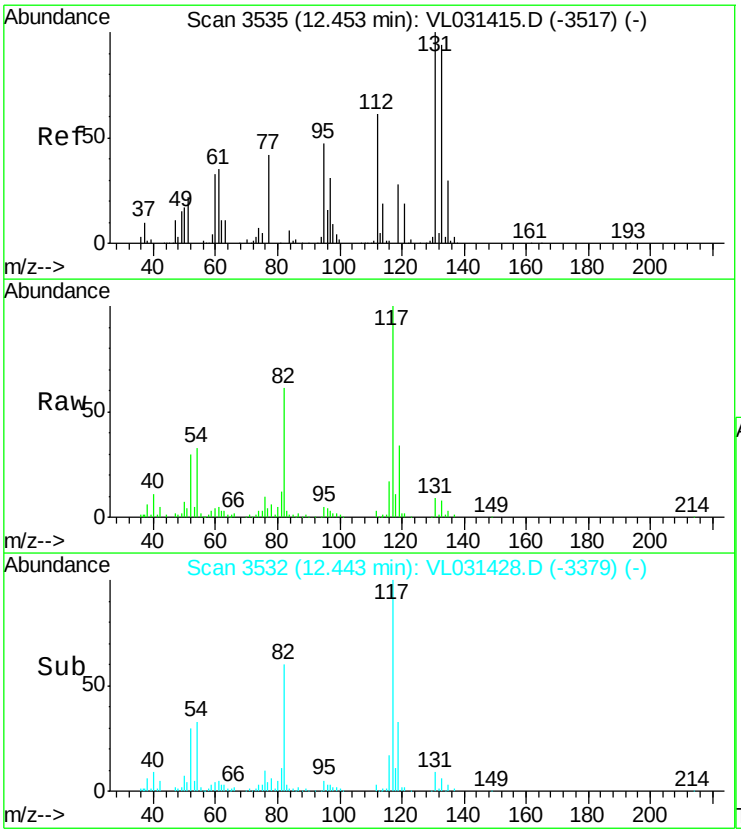
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:117 Resp: 2629637

Ion	Ratio	Lower	Upper
117	100		
82	68.2	51.8	77.6
119	32.7	24.2	36.2

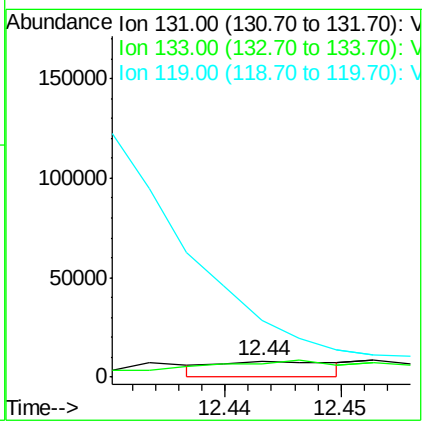


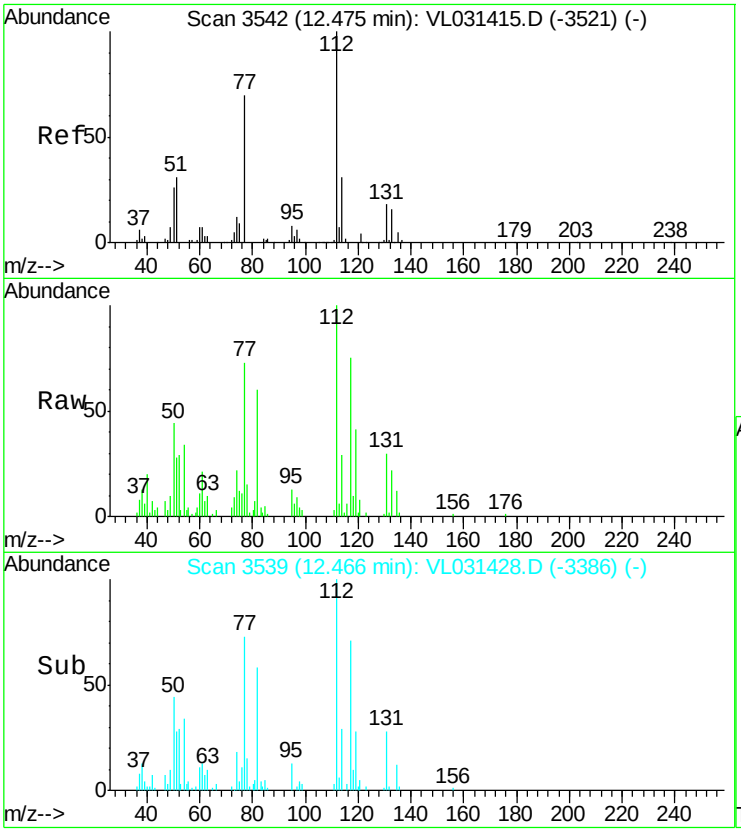


#56
1,1,1,2-Tetrachloroethane
Concen: 0.04 ppbv
RT: 12.44 min Scan# 3532
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:131 Resp: 5596

Ion	Ratio	Lower	Upper
131	100		
133	285.8	76.9	115.3#
119	0.0	47.7	71.5#



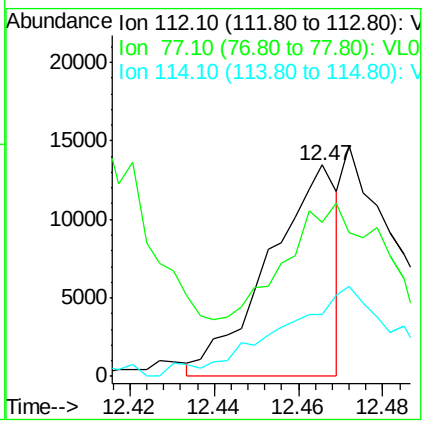


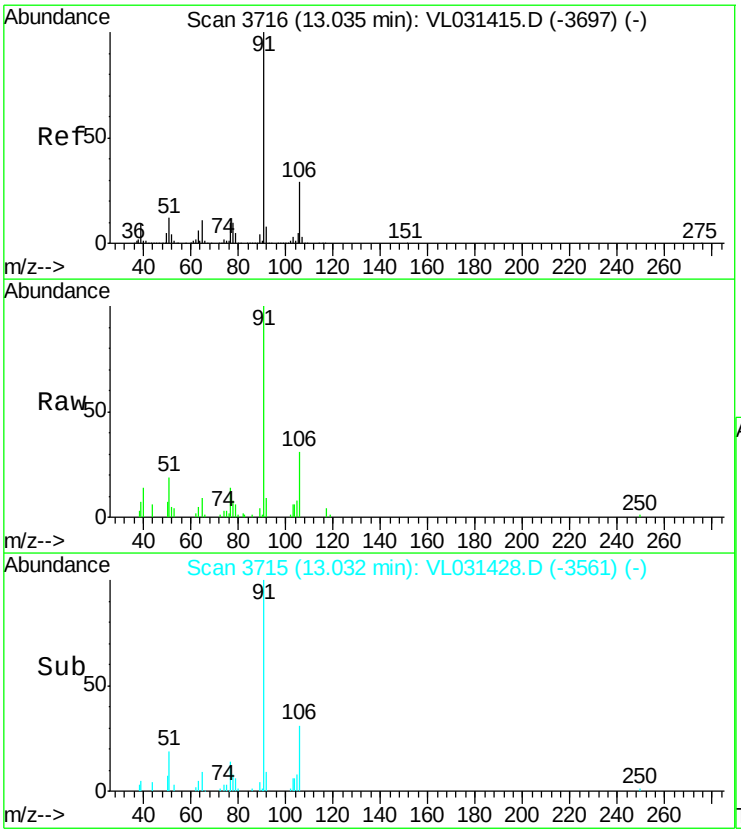
#57
Chlorobenzene
Concen: 0.07 ppbv
RT: 12.47 min Scan# 3539
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:112 Resp: 15125

Ion	Ratio	Lower	Upper
112	100		
77	37.0	56.0	84.0#
114	27.7	29.1	35.5#

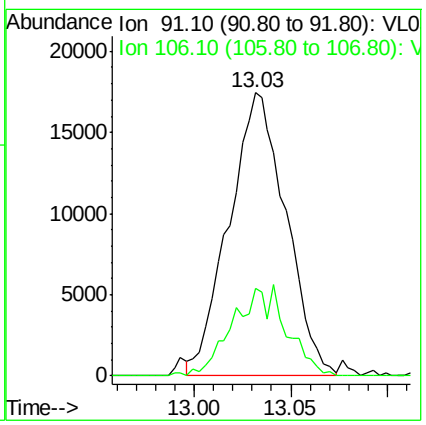


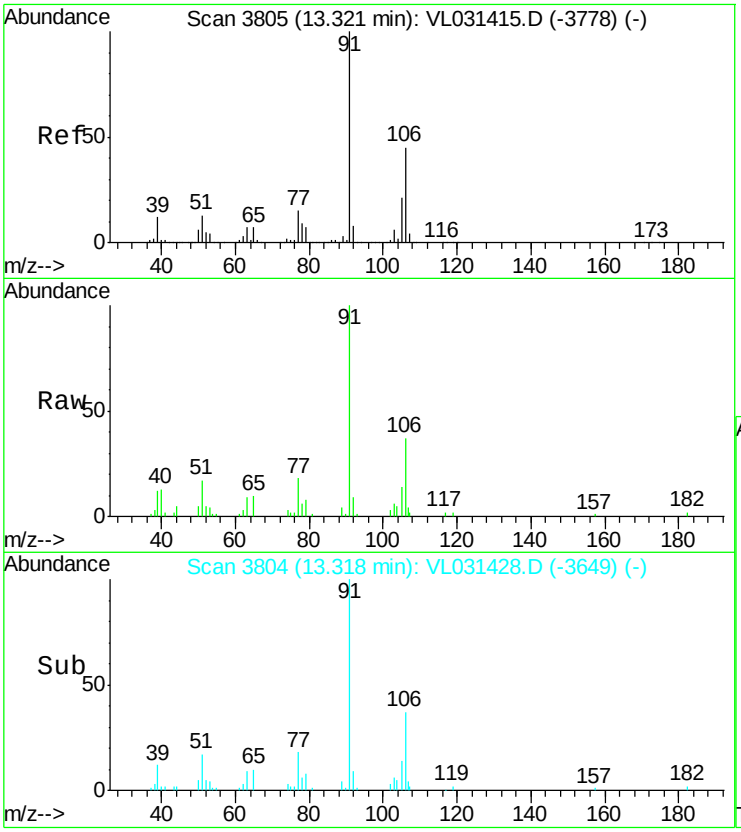


#58
Ethyl Benzene
Concen: 0.09 ppbv
RT: 13.03 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 35648

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.8	35.6



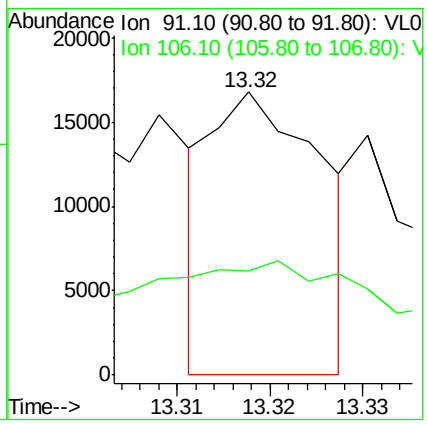


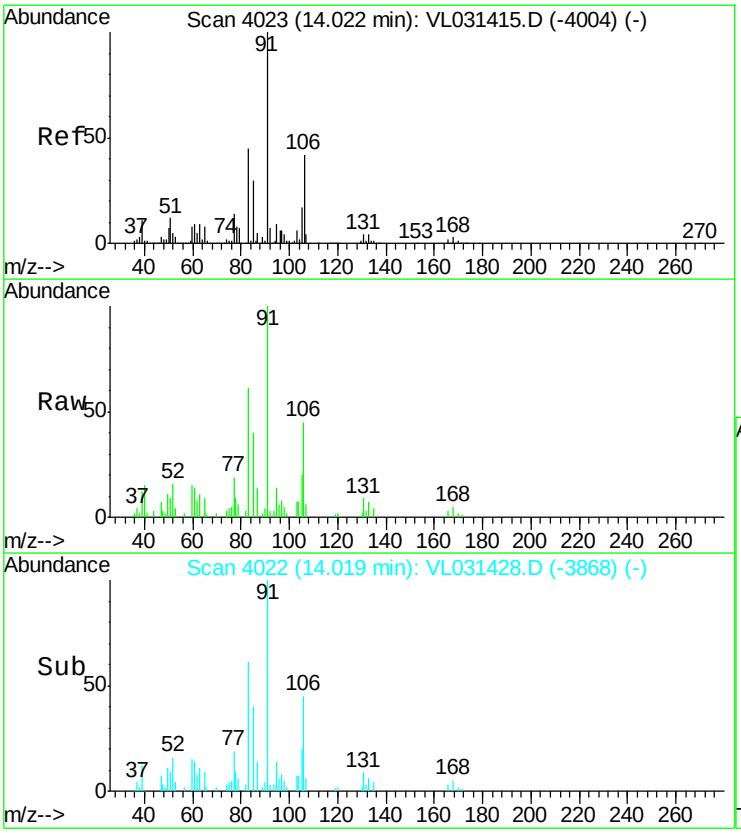
#59
m/p-Xylene
Concen: 0.04 ppbv
RT: 13.32 min Scan# 3804
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion: 91 Resp: 13823

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.6	53.4#

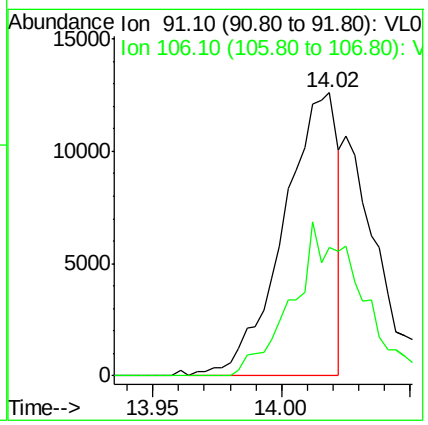


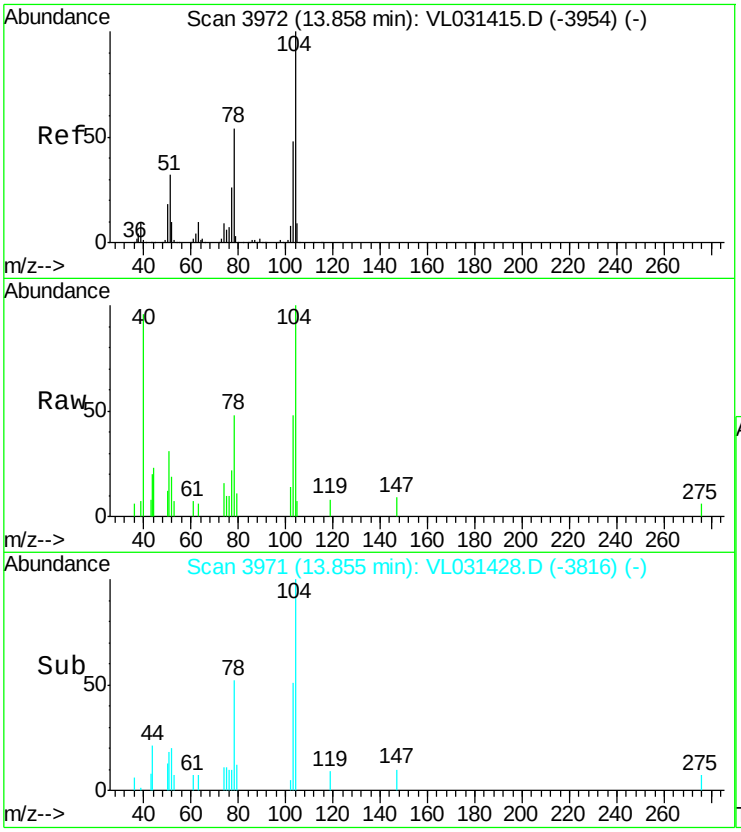


#60
o-Xylene
Concen: 0.06 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 18326

Ion	Ratio	Lower	Upper
91	100		
106	67.7	21.3	64.0#



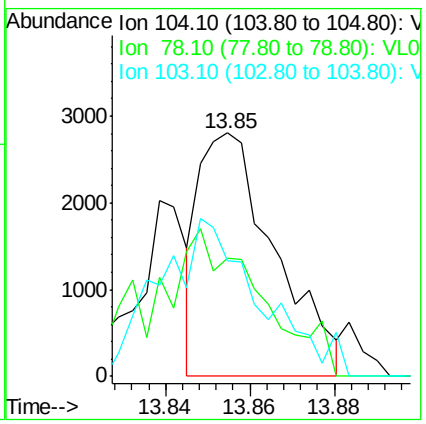


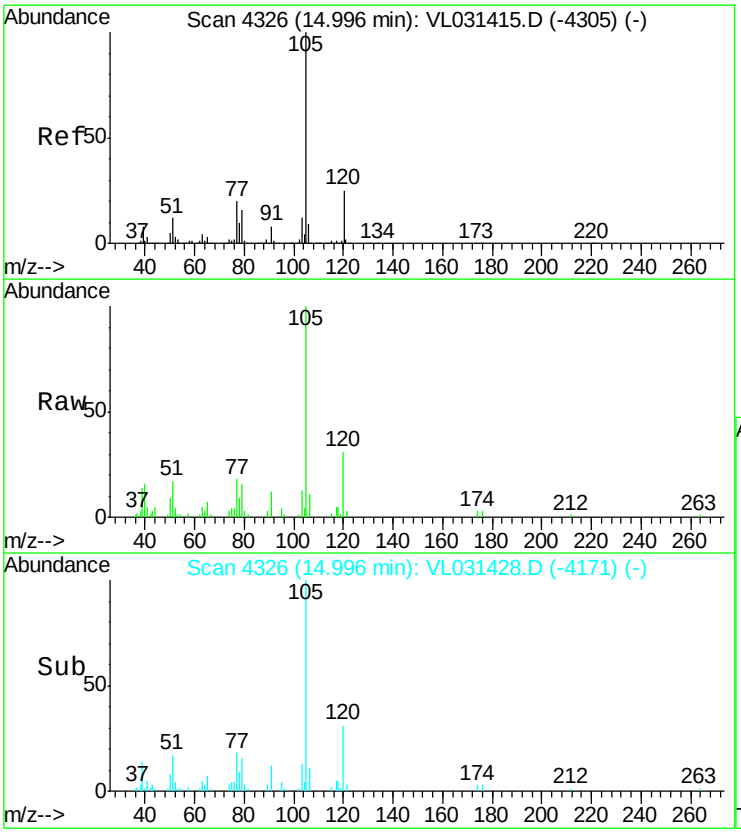
#61
Styrene
Concen: 0.05 ppbv
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion:104 Resp: 3512

Ion	Ratio	Lower	Upper
104	100		
78	91.5	45.4	68.0#
103	87.3	38.6	57.8#

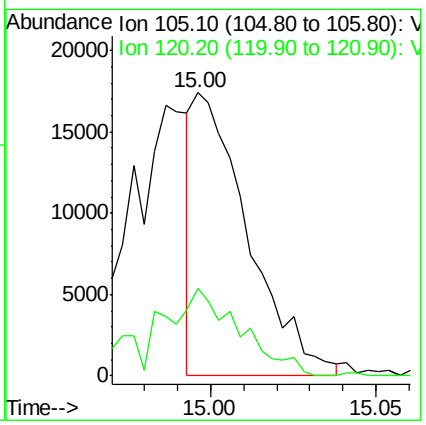


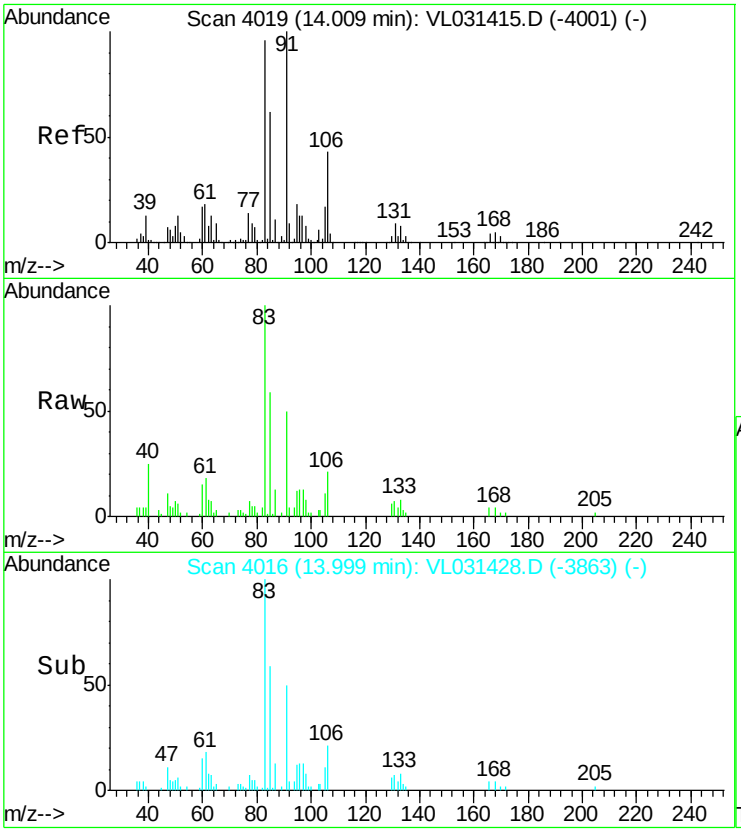


#62
Isopropylbenzene
Concen: 0.05 ppbv
RT: 15.00 min Scan# 4326
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:105 Resp: 19848

Ion	Ratio	Lower	Upper
105	100		
120	50.8	19.9	29.9#



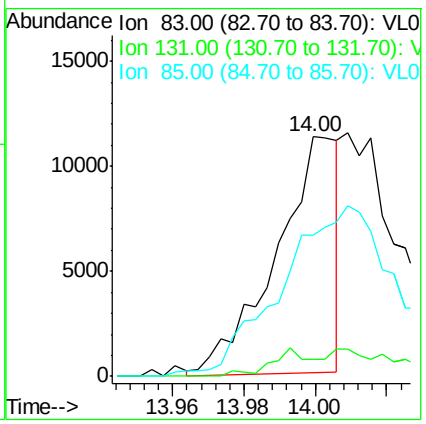


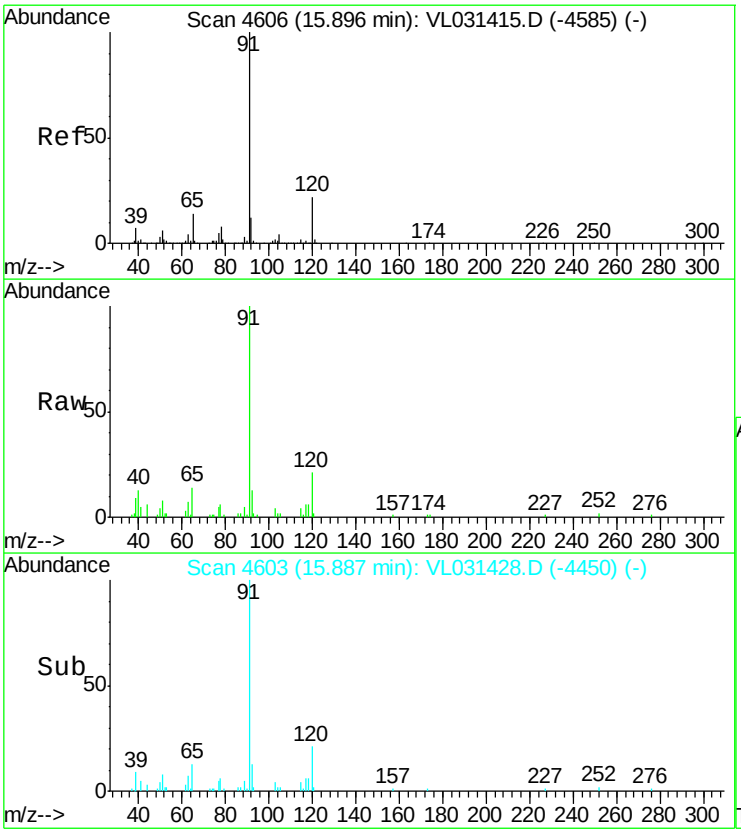
#63
1,1,2,2-Tetrachloroethane
Concen: 0.06 ppbv
RT: 14.00 min Scan# 4016
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 83 Resp: 13545

Ion	Ratio	Lower	Upper
83	100		
131	19.9	4.8	14.3#
85	0.0	32.4	97.0#

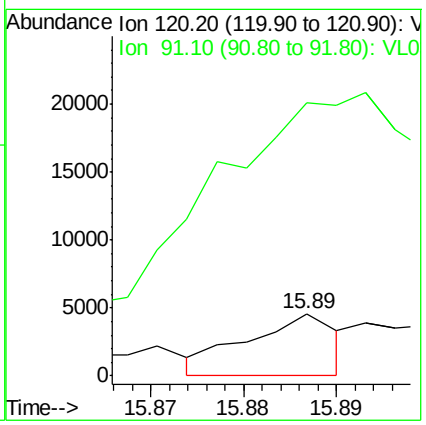


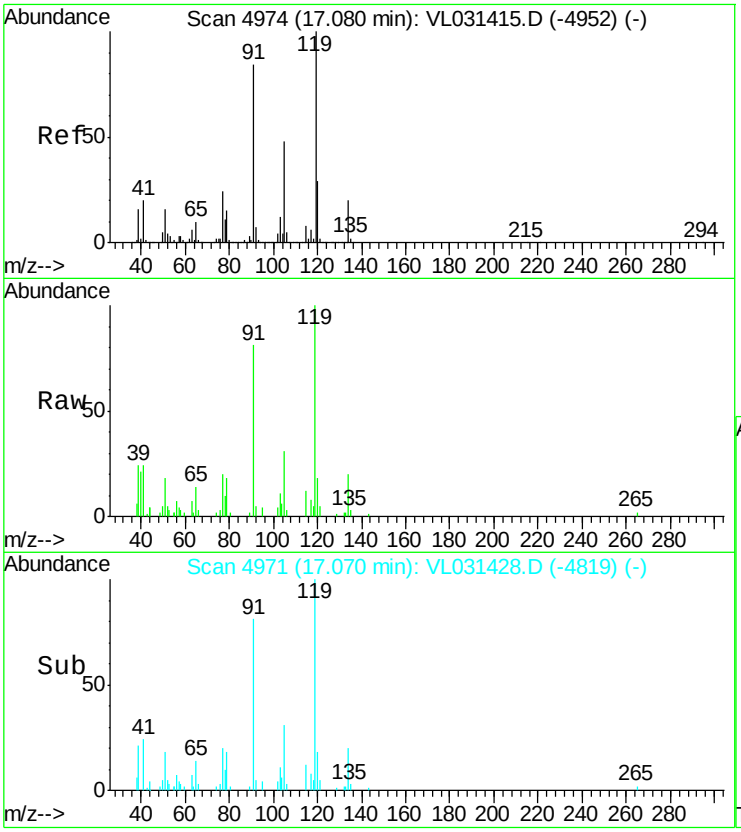


#64
n-propylbenzene
Concen: 0.03 ppbv
RT: 15.89 min Scan# 4603
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:120 Resp: 3081

Ion	Ratio	Lower	Upper
120	100		
91	0.0	389.8	584.6#



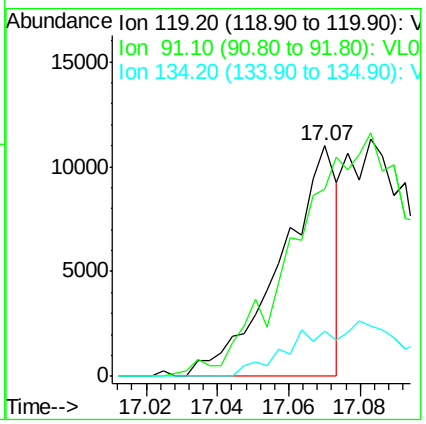


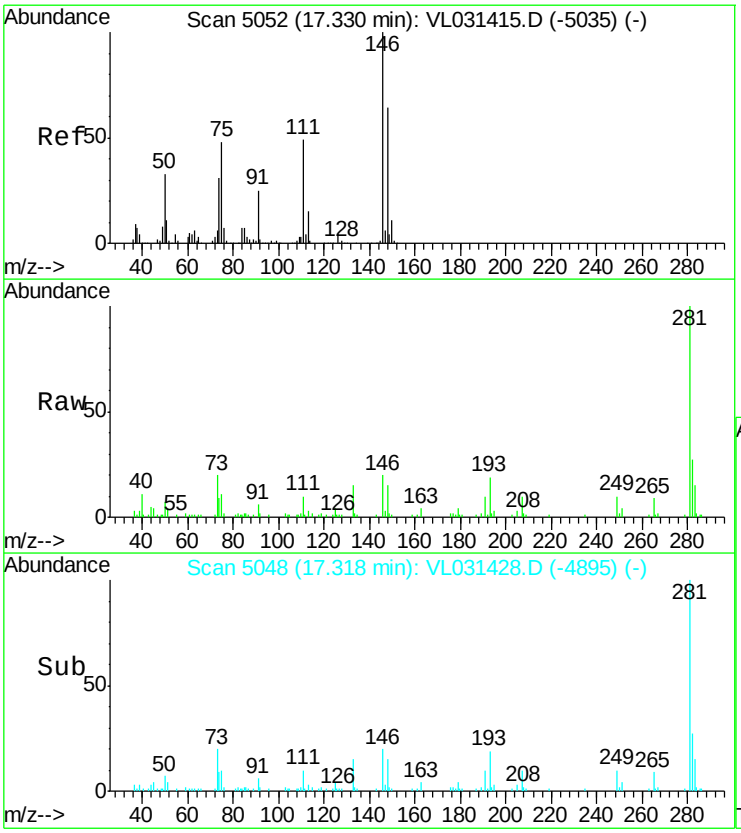
#65
tert-Butylbenzene
Concen: 0.03 ppbv
RT: 17.07 min Scan# 4971
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion:119 Resp: 12067

Ion	Ratio	Lower	Upper
119	100		
91	0.0	69.0	103.6#
134	0.0	15.7	23.5#

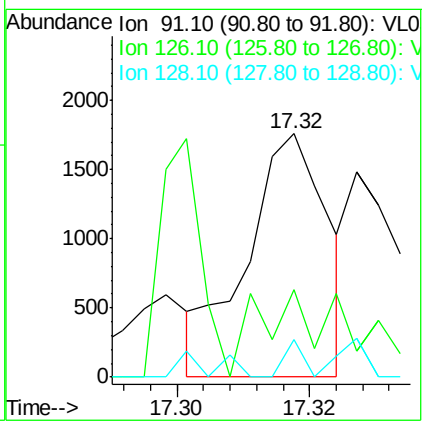


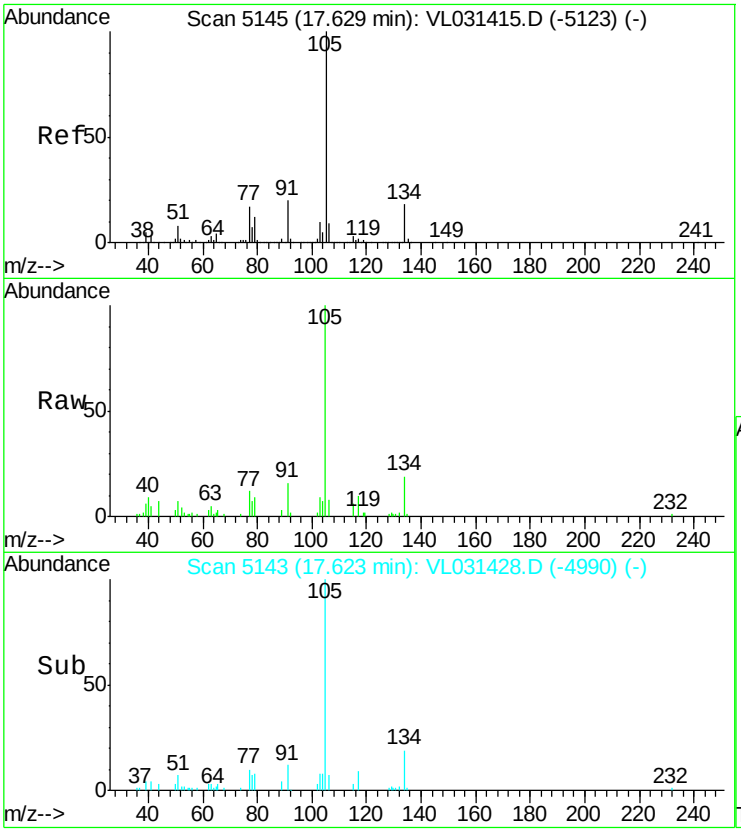


#66
Benzyl Chloride
Concen: 0.04 ppbv
RT: 17.32 min Scan# 5048
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 1481

Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.8	20.8#
128	10.5	4.6	6.8#



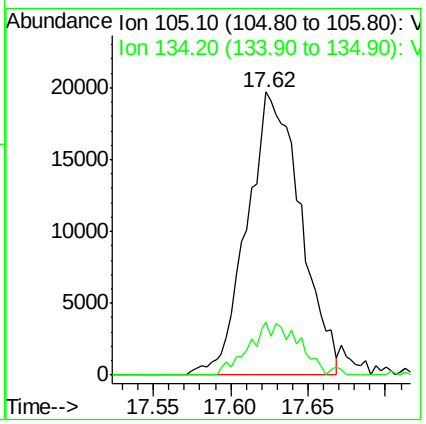


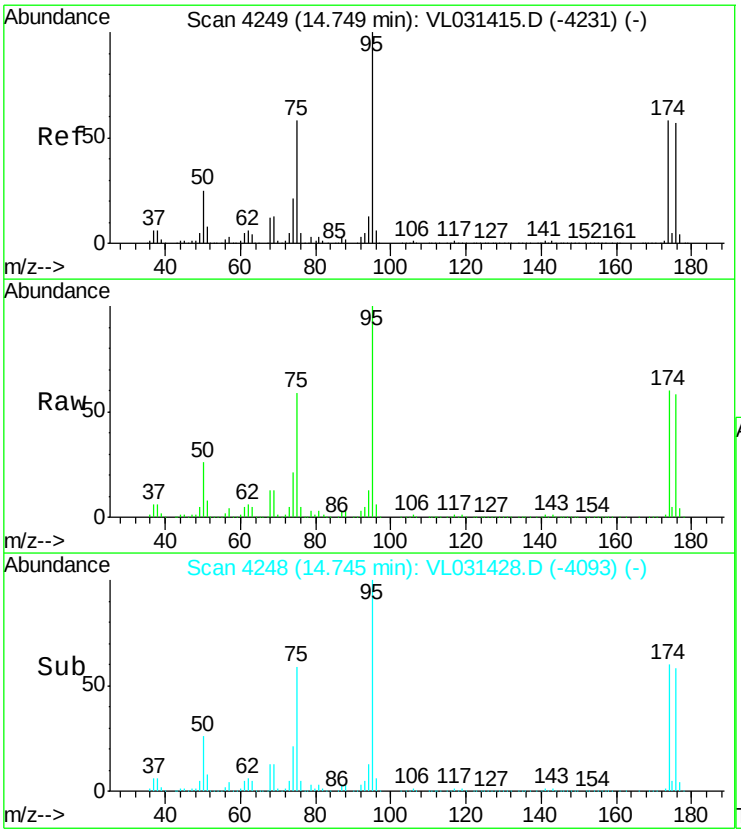
#67
sec-Butylbenzene
Concen: 0.09 ppbv
RT: 17.62 min Scan# 5143
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion:105 Resp: 47483

Ion	Ratio	Lower	Upper
105	100		
134	17.7	14.5	21.7

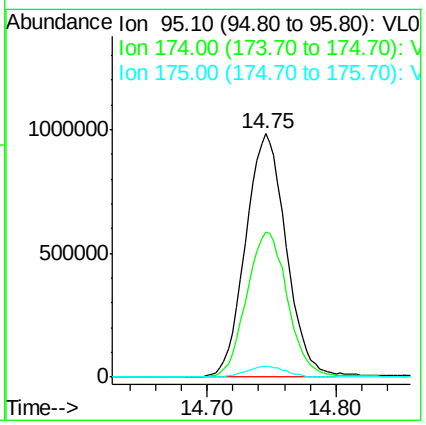


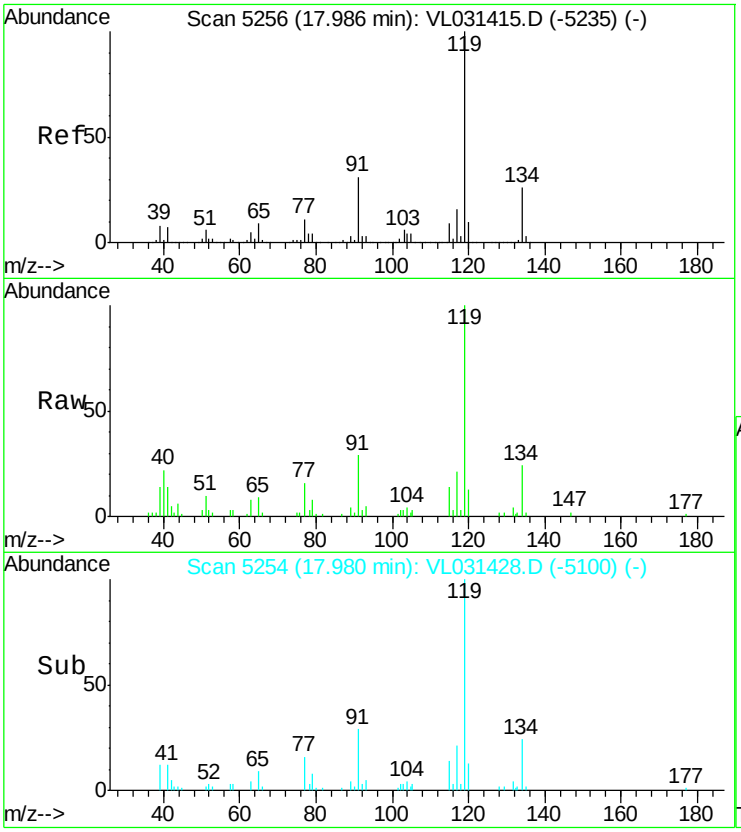


#68
1-Bromo-4-Fluorobenzene
Concen: 10.23 ppbv
RT: 14.75 min Scan# 4248
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 95 Resp: 2154570

Ion	Ratio	Lower	Upper
95	100		
174	61.3	48.2	72.4
175	4.5	3.6	5.4



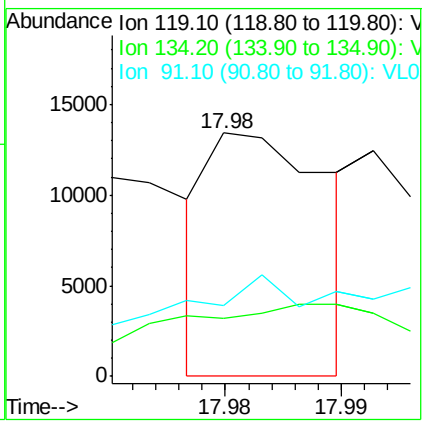


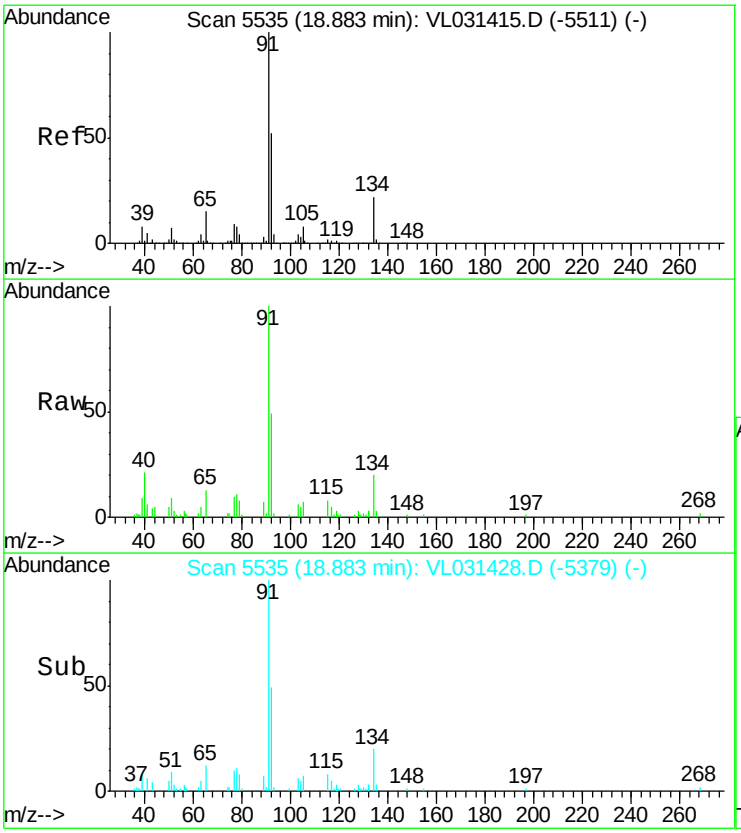
#69
p-Isopropyltoluene
Concen: 0.02 ppbv
RT: 17.98 min Scan# 5254
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion:119 Resp: 9457

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.4#
91	128.9	25.0	37.4#

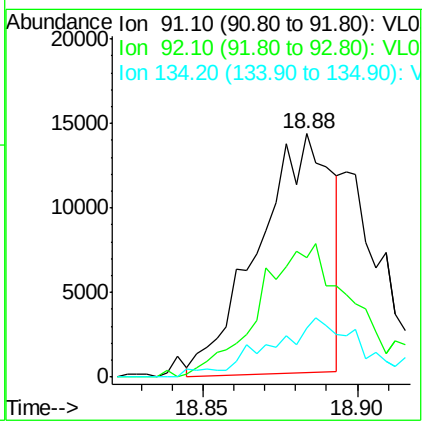


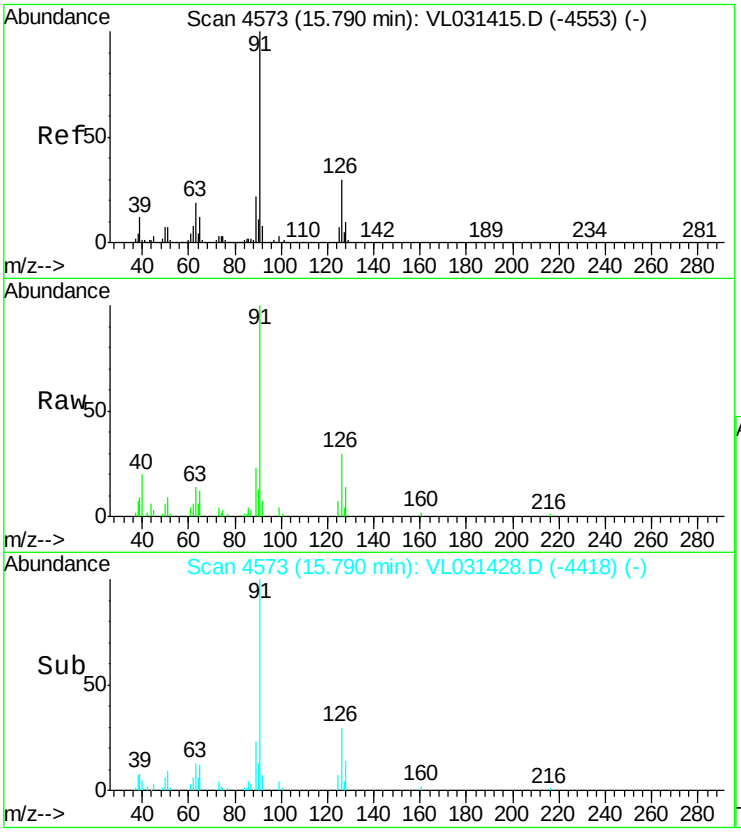


#70
n-Butylbenzene
Concen: 0.05 ppbv
RT: 18.88 min Scan# 5535
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion: 91 Resp: 23430

Ion	Ratio	Lower	Upper
91	100		
92	77.1	42.2	63.4#
134	31.9	17.4	26.2#



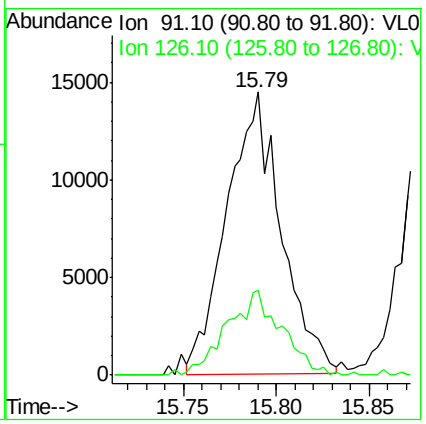


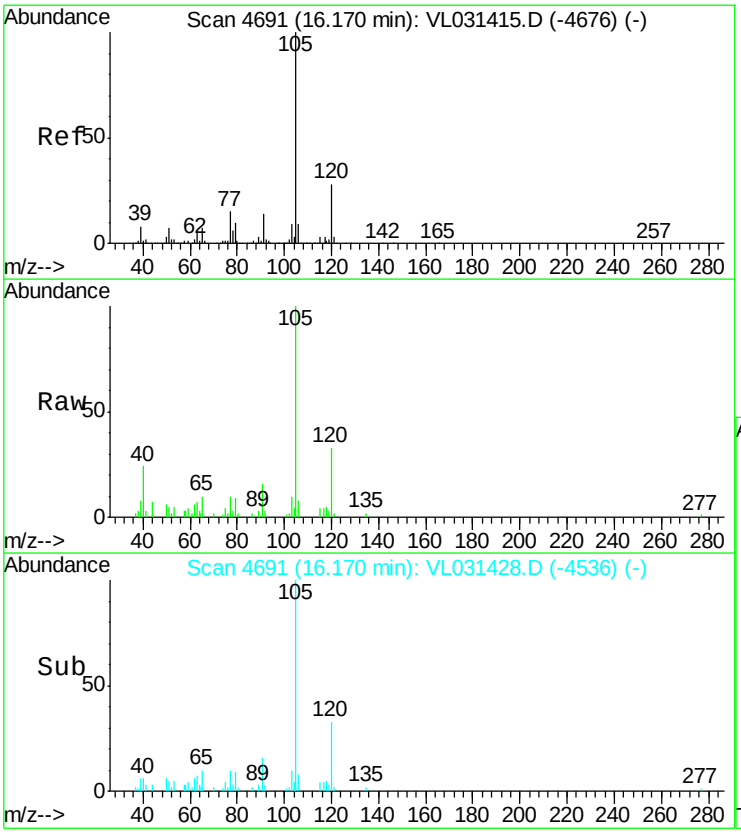
#71
2-Chlorotoluene
Concen: 0.09 ppbv
RT: 15.79 min Scan# 4573
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument : MSVOA_L
ClientSampleId : MDL-AIR-3

Tgt Ion: 91 Resp: 29528

Ion	Ratio	Lower	Upper
91	100		
126	30.1	11.7	46.9

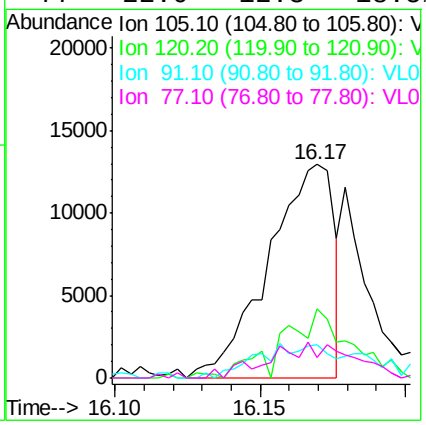


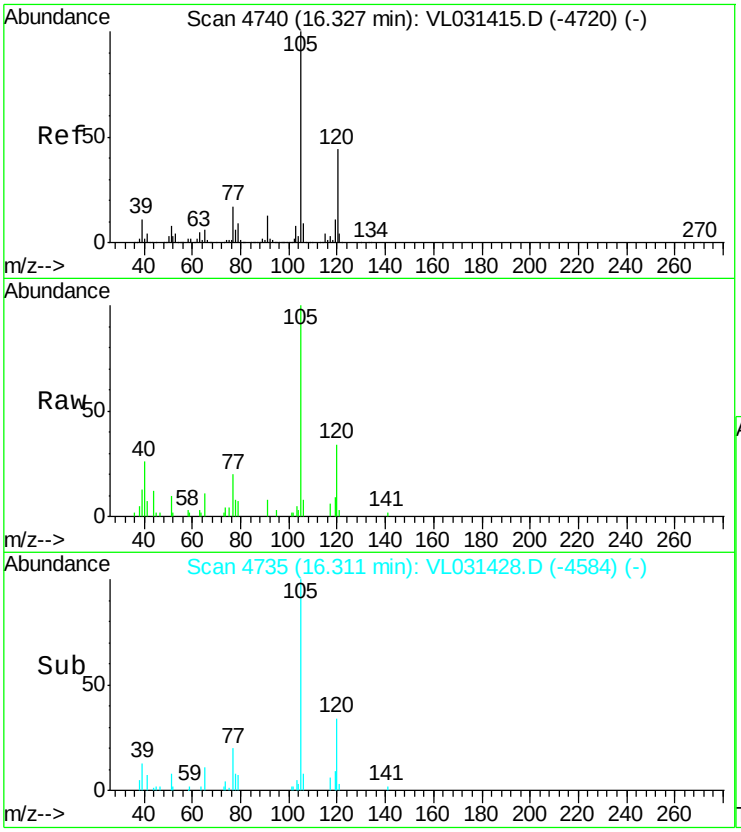


#72
4-Ethyltoluene
Concen: 0.06 ppbv
RT: 16.17 min Scan# 4691
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:105 Resp: 20244

Ion	Ratio	Lower	Upper
105	100		
120	34.6	23.0	34.6#
91	26.4	11.0	16.4#
77	22.0	12.3	18.5#



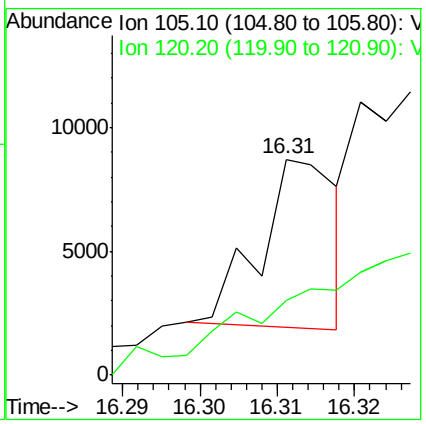


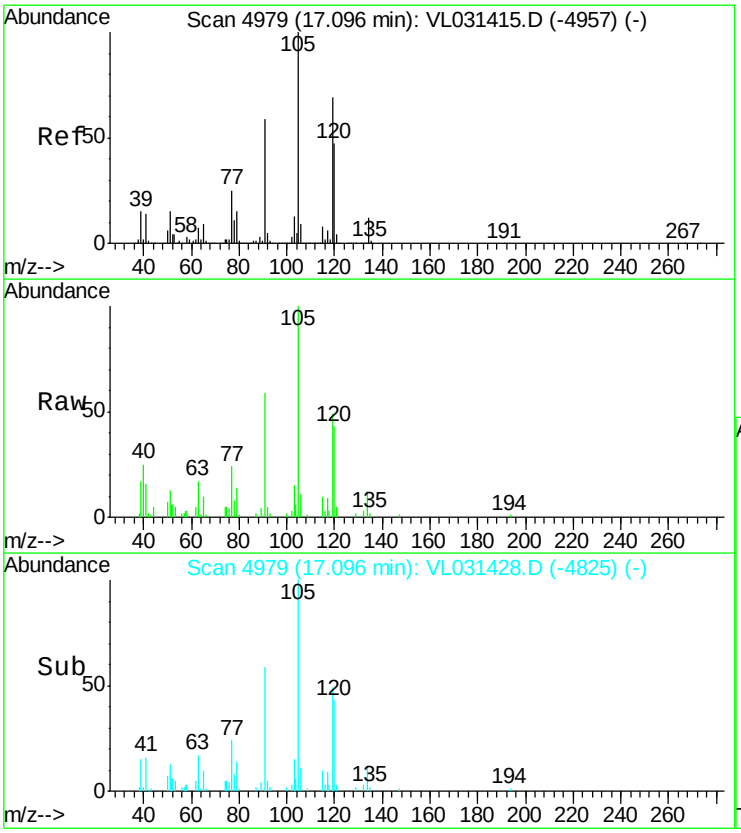
#73
1,3,5-Trimethylbenzene
Concen: 0.02 ppbv
RT: 16.31 min Scan# 4735
Delta R.T. -0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:105 Resp: 4700

Ion	Ratio	Lower	Upper
105	100		
120	38.1	35.8	53.6

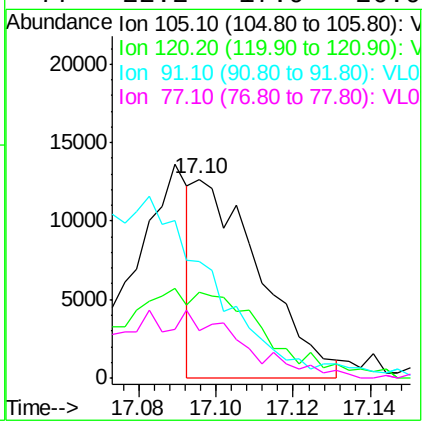


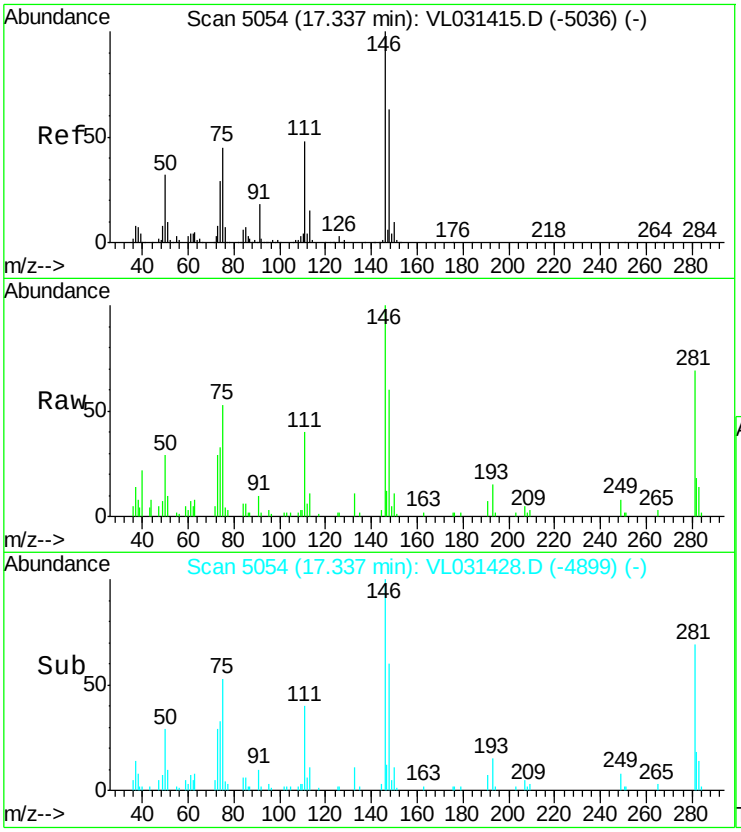


#74
1,2,4-Trimethylbenzene
Concen: 0.04 ppbv
RT: 17.10 min Scan# 4979
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:105 Resp: 14880

Ion	Ratio	Lower	Upper
105	100		
120	44.6	37.0	55.6
91	62.3	35.1	52.7#
77	22.2	17.9	26.9



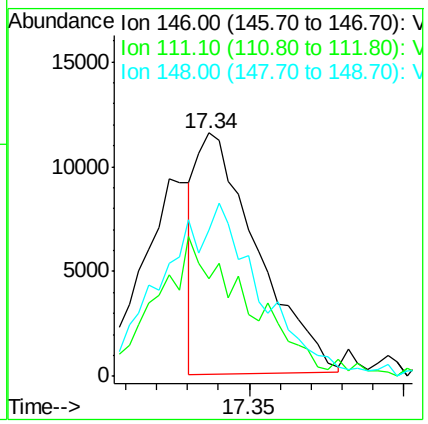


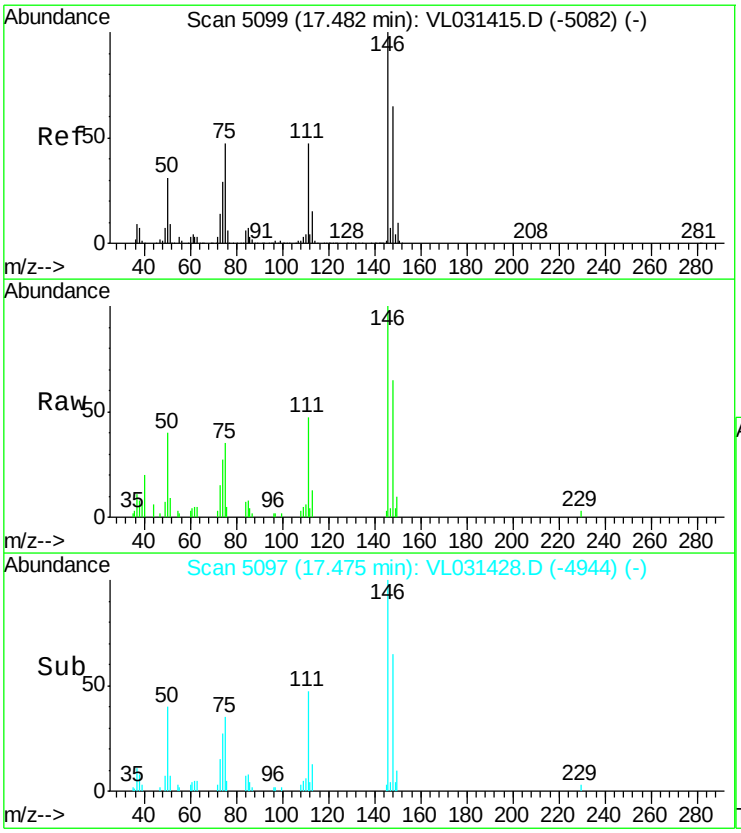
#75
1,3-Dichlorobenzene
Concen: 0.08 ppbv
RT: 17.34 min Scan# 5054
Delta R.T. -0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:146 Resp: 15734

Ion	Ratio	Lower	Upper
146	100		
111	88.4	24.2	72.6#
148	121.3	32.1	96.3#

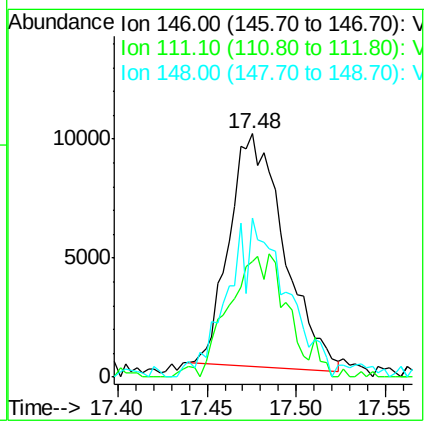


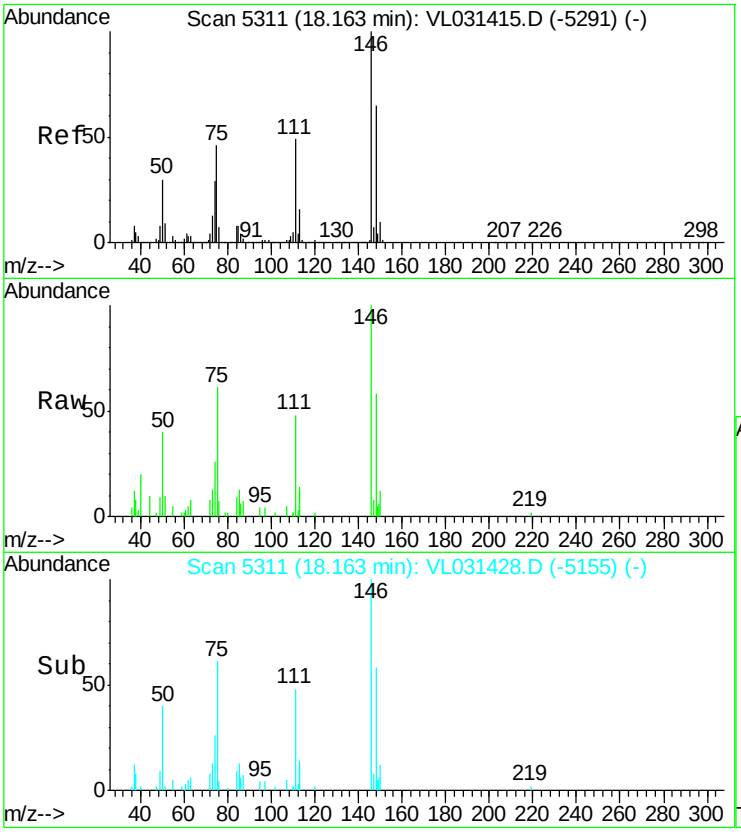


#76
1,4-Dichlorobenzene
Concen: 0.10 ppbv
RT: 17.48 min Scan# 5097
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:146 Resp: 20962

Ion	Ratio	Lower	Upper
146	100		
111	58.0	23.3	69.9
148	77.4	32.4	97.2



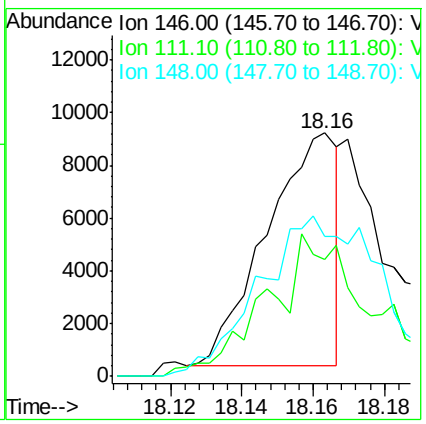


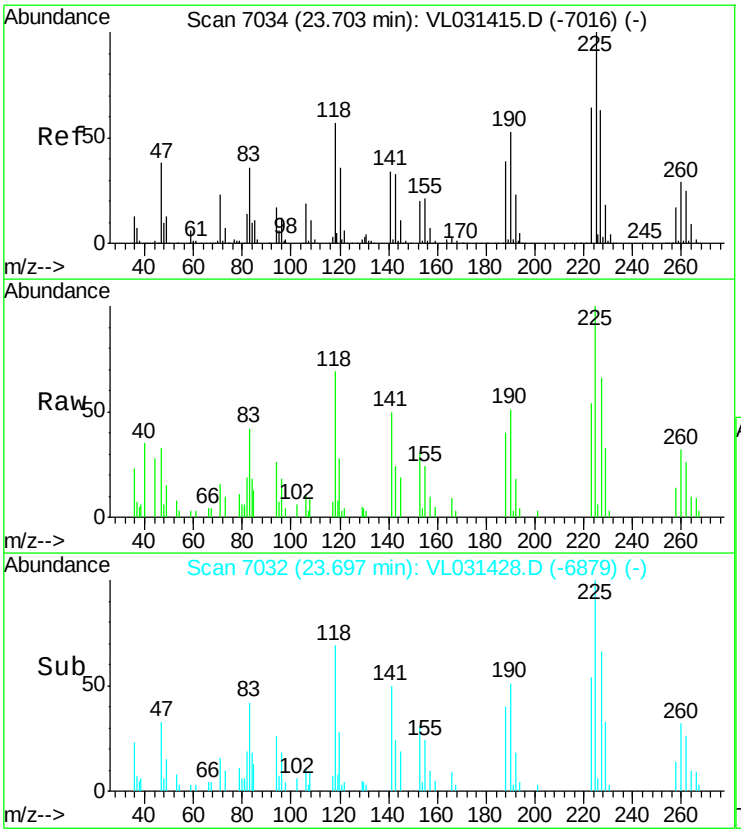
#77
1,2-Dichlorobenzene
Concen: 0.06 ppbv
RT: 18.16 min Scan# 5311
Delta R.T. 0.00 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:146 Resp: 12089

Ion	Ratio	Lower	Upper
146	100		
111	92.2	24.6	74.0#
148	124.1	32.3	96.8#

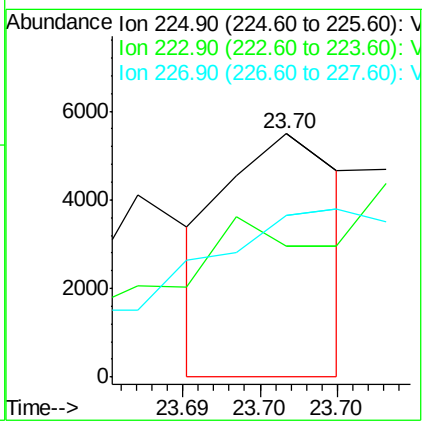


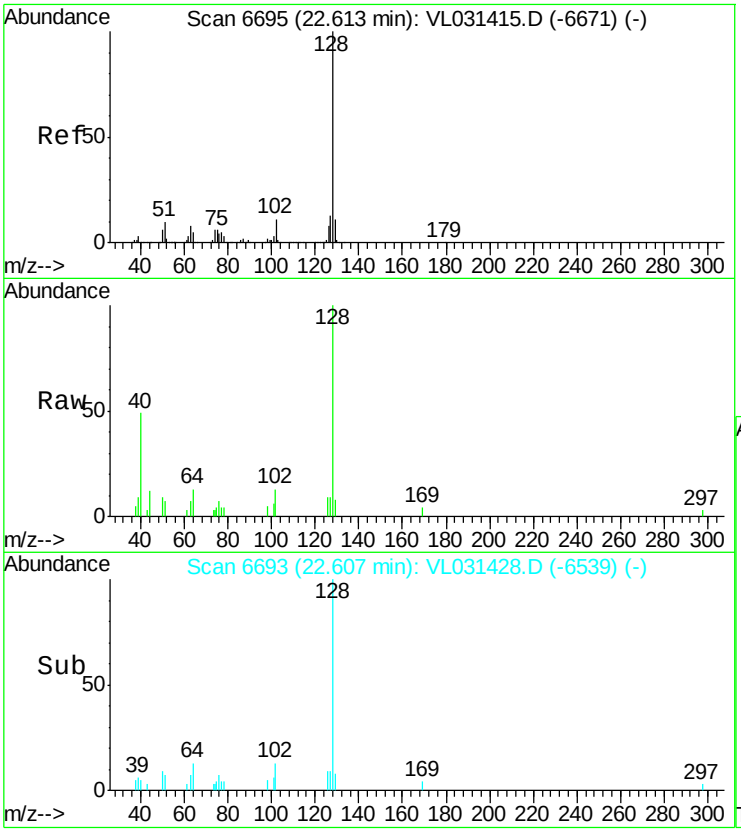


#78
Hexachloro-1,3-Butadiene
Concen: 0.04 ppbv
RT: 23.70 min Scan# 7032
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:225 Resp: 2837

Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.3	76.9#
227	0.0	50.7	76.1#



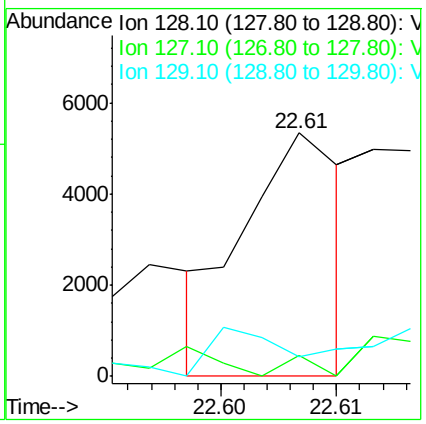


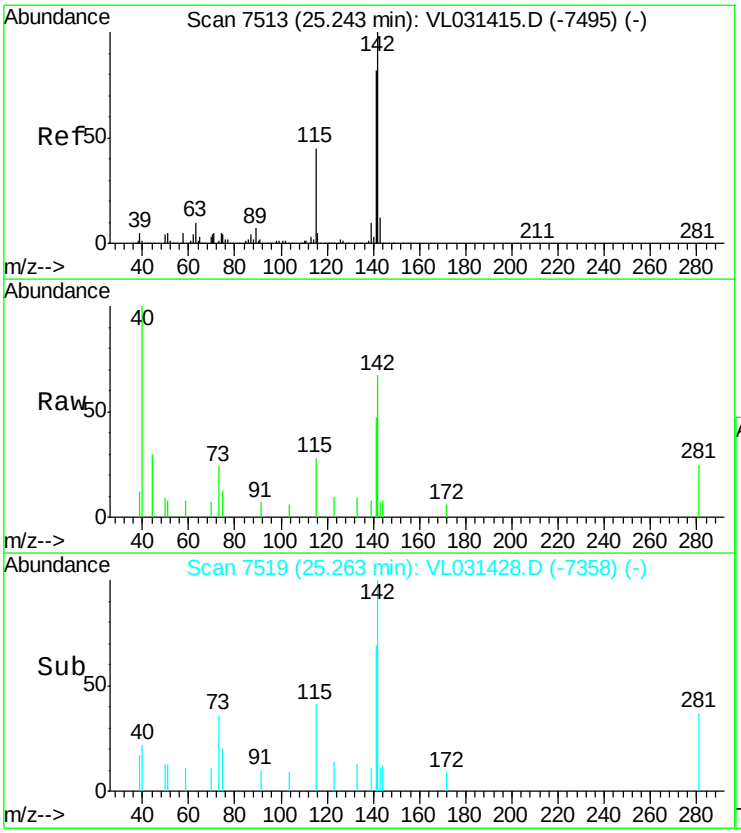
#79
Naphthalene
Concen: 0.02 ppbv
RT: 22.61 min Scan# 6693
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:128 Resp: 3151

Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.6	16.0
129	14.6	9.2	13.8#

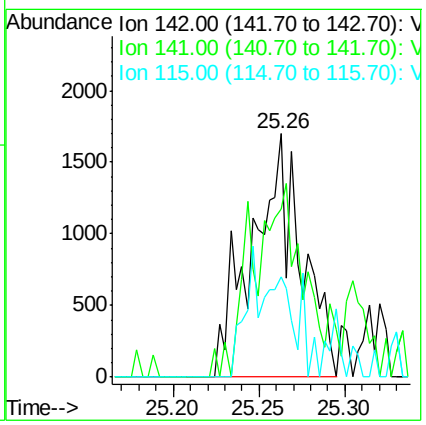


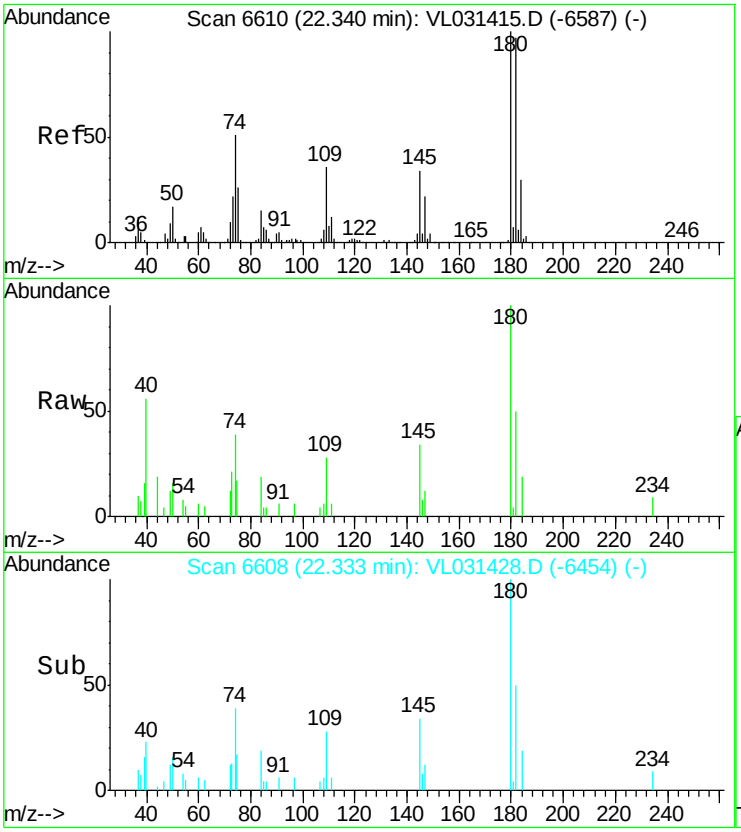


#80
Naphthalene,2-methyl-
Concen: 0.06 ppbv
RT: 25.26 min Scan# 7519
Delta R.T. 0.02 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Tgt Ion:142 Resp: 3333

Ion	Ratio	Lower	Upper
142	100		
141	85.2	68.7	103.1
115	51.4	36.3	54.5





#81
1,2,4-Trichlorobenzene
Concen: 0.02 ppbv
RT: 22.33 min Scan# 6608
Delta R.T. -0.01 min
Lab File: VL031428.D
Acq: 22 Jan 2018 23:03

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-3

Tgt Ion:180 Resp: 2640

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.4#
184	57.2	24.2	36.4#