

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033447.D
 Acq On : 25 Mar 2019 22:06
 Operator : SY/AP
 Sample : K1560-13 0.1
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

Quant Time: Mar 26 05:21:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	708629	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1635070	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1624450	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1270491	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	15182	0.147	ppbv 99
3) Chlorodifluoromethane	3.01	51	10040	0.123	ppbv 97
4) Chloromethane	3.17	50	5287	0.122	ppbv 98
5) Vinyl Chloride	3.29	62	4743	0.112	ppbv # 74
6) Bromomethane	3.51	94	1677	0.062	ppbv 93
7) Chloroethane	3.60	64	1230	0.078	ppbv # 75
8) Dichlorotetrafluoroethane	3.22	85	13254	0.120	ppbv 97
9) Propene	3.03	41	4440	0.130	ppbv 91
10) Heptane	8.25	43	2895	0.034	ppbv # 32
11) Trichlorofluoromethane	4.00	101	15233	0.120	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	5283	0.062	ppbv # 14
13) Ethanol	3.65	45	242	0.030	ppbv # 18
14) Bromoethene	3.78	108	2311	0.068	ppbv # 10
15) Acetone	3.92	43	9038	0.106	ppbv # 71
16) 1,3-Butadiene	3.36	39	3813	0.113	ppbv 97
18) 1,1-Dichloroethene	4.36	96	824	0.022	ppbv 82
19) Isopropyl Alcohol	4.04	45	1684	0.031	ppbv # 95
20) Methylene Chloride	4.41	84	6287	0.174	ppbv # 91
21) Allyl Chloride	4.47	41	2285	0.042	ppbv # 18
22) trans-1,2-Dichloroethene	4.96	96	3466	0.090	ppbv # 63
24) 1,1-Dichloroethane	5.08	63	4468	0.049	ppbv 95
25) Ethyl Acetate	5.78	43	8208	0.052	ppbv # 74
26) Hexane	5.77	57	1778	0.025	ppbv # 1
28) Methyl tert-Butyl Ether	5.13	73	3956	0.039	ppbv # 50
29) Chloroform	5.85	83	12940	0.107	ppbv 92
30) Cyclohexane	7.24	84	1144	0.021	ppbv # 1
31) cis-1,2-Dichloroethene	5.64	61	2153	0.031	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	11261	0.098	ppbv 95
35) Carbon Tetrachloride	7.13	117	10529	0.099	ppbv # 75
36) Benzene	7.00	78	6868	0.050	ppbv 94
37) 1,2-Dichloroethane	6.40	62	10098	0.110	ppbv 98
38) Trichloroethene	7.95	130	2320	0.045	ppbv # 34
39) 1,2-Dichloropropane	7.73	63	5024	0.093	ppbv # 77
42) Bromodichloromethane	7.91	83	10953	0.087	ppbv 98
45) t-1,3-Dichloropropene	9.41	75	3361	0.049	ppbv # 44
47) 1,1,2-Trichloroethane	9.61	97	2964	0.049	ppbv # 46
48) Dibromochloromethane	10.44	129	4138	0.040	ppbv # 25
49) Bromoform	13.19	173	3747	0.038	ppbv # 62
52) Tetrachloroethene	11.36	164	1429	0.028	ppbv # 13
53) Toluene	9.94	91	4630	0.029	ppbv # 18
54) 1,2-Dibromoethane	10.76	107	3389	0.036	ppbv 89

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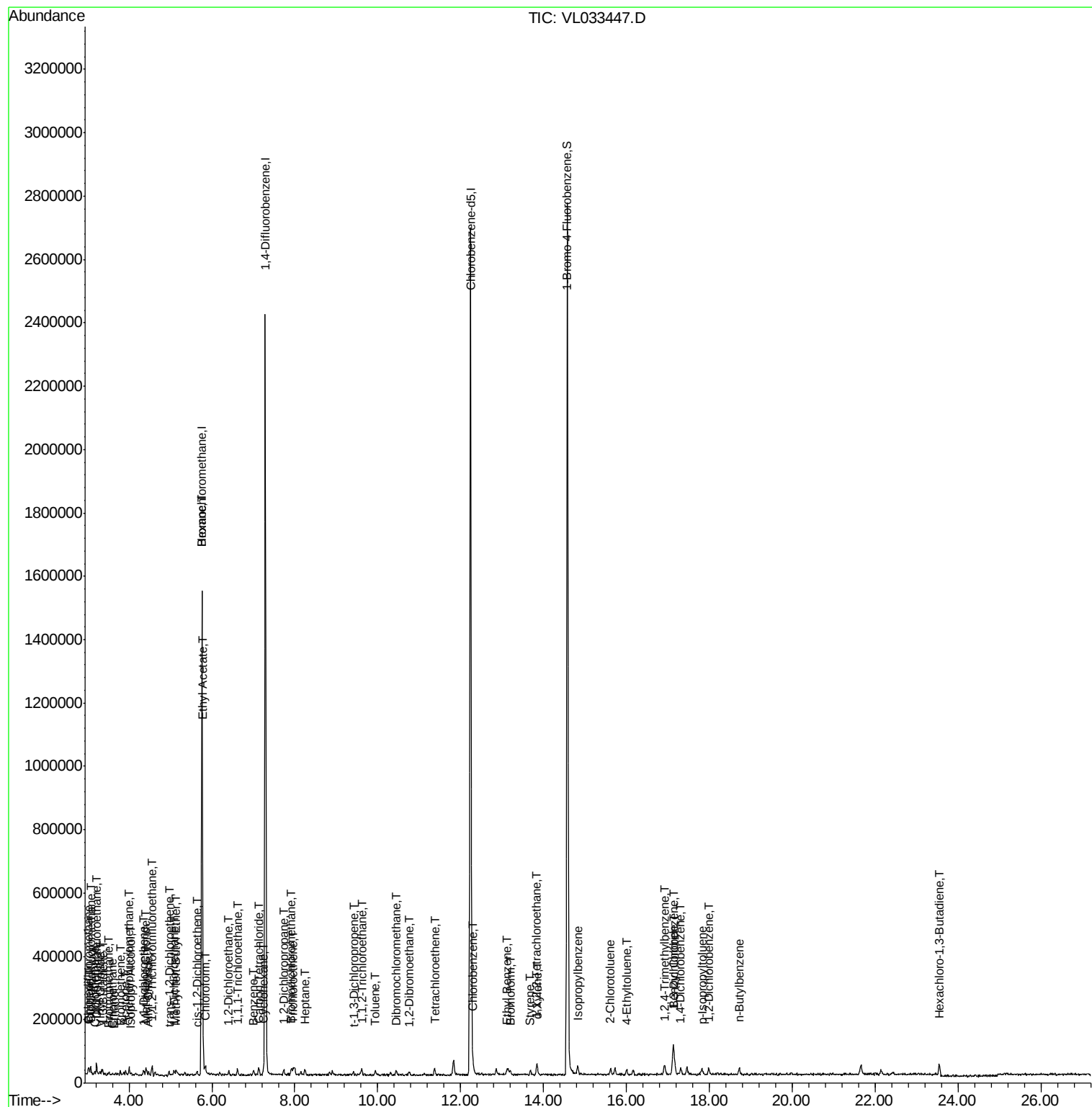
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.30	112	6436	0.051	ppbv #	65
58) Ethyl Benzene	13.11	91	5146	0.024	ppbv	94
60) o-Xylene	13.85	91	6188	0.033	ppbv #	63
61) Styrene	13.68	104	3772	0.029	ppbv #	34
62) Isopropylbenzene	14.83	105	5700	0.021	ppbv #	38
63) 1,1,2,2-Tetrachloroethane	13.84	83	8765	0.064	ppbv	66
66) Benzyl Chloride	17.16	91	3602	0.033	ppbv #	97
69) p-Isopropyltoluene	17.82	119	7875	0.029	ppbv #	57
70) n-Butylbenzene	18.71	91	7565	0.026	ppbv #	35
71) 2-Chlorotoluene	15.62	91	10770	0.053	ppbv	86
72) 4-Ethyltoluene	16.00	105	4235	0.020	ppbv #	50
74) 1,2,4-Trimethylbenzene	16.92	105	4403	0.020	ppbv #	65
75) 1,3-Dichlorobenzene	17.16	146	10464	0.078	ppbv #	62
76) 1,4-Dichlorobenzene	17.31	146	9789	0.075	ppbv	94
77) 1,2-Dichlorobenzene	17.98	146	4297	0.034	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.54	225	1964	0.023	ppbv #	1

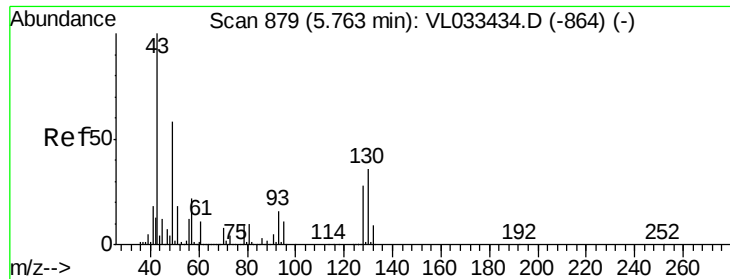
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033447.D

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Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

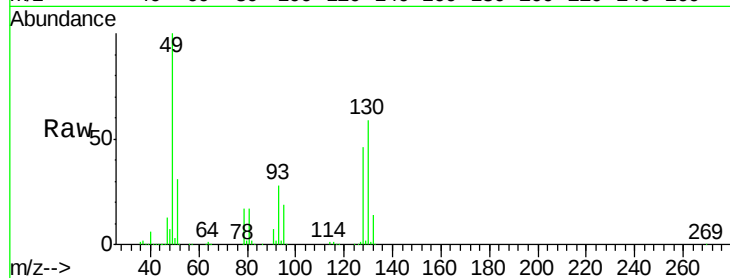
Tgt Ion: 49 Resp: 708629

Ion Ratio Lower Upper

49 100

128 47.6 24.0 72.0

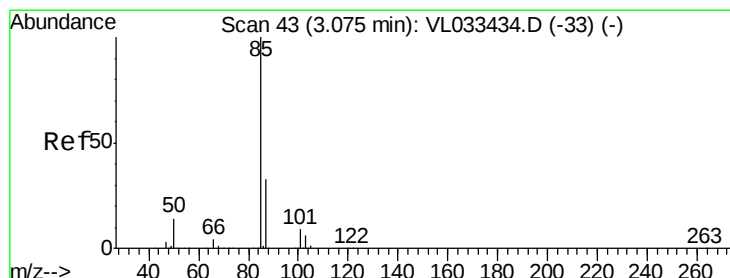
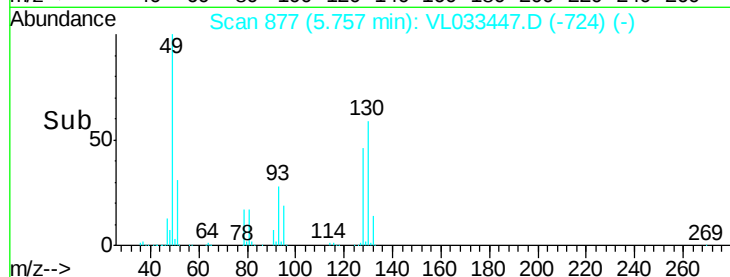
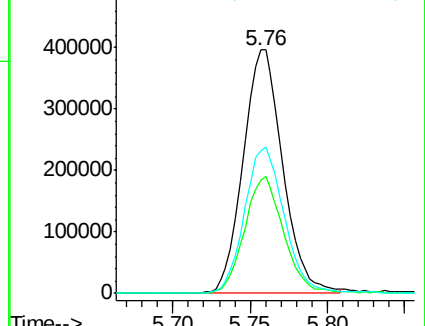
130 61.0 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.147 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033447.D

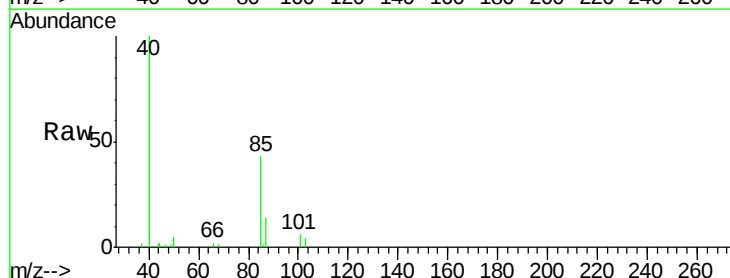
Acq: 25 Mar 2019 22:06

Tgt Ion: 85 Resp: 15182

Ion Ratio Lower Upper

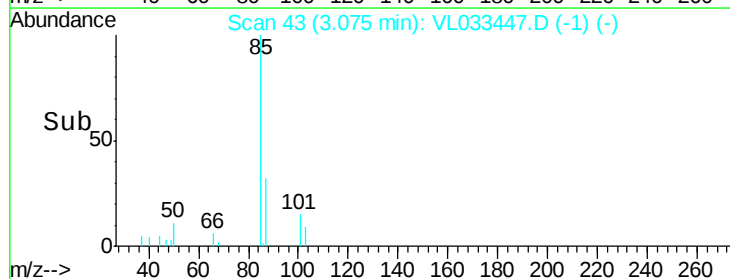
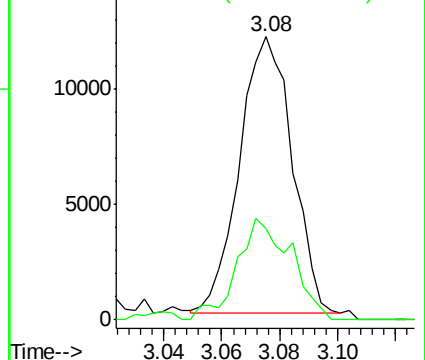
85 100

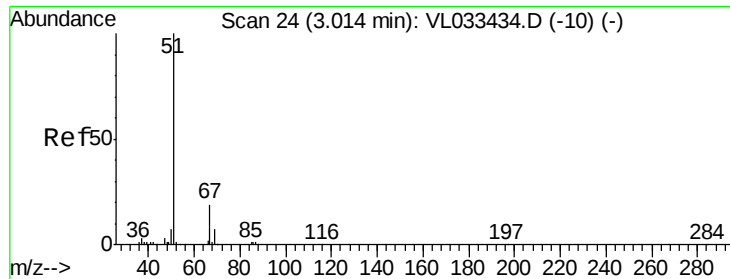
87 33.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

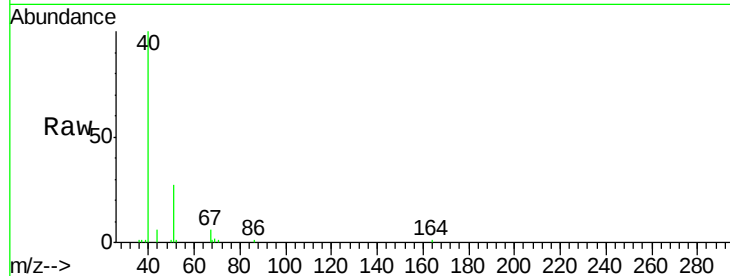
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 51 Resp: 10040

Ion Ratio Lower Upper

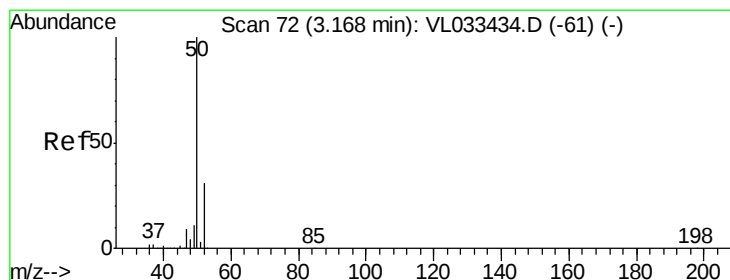
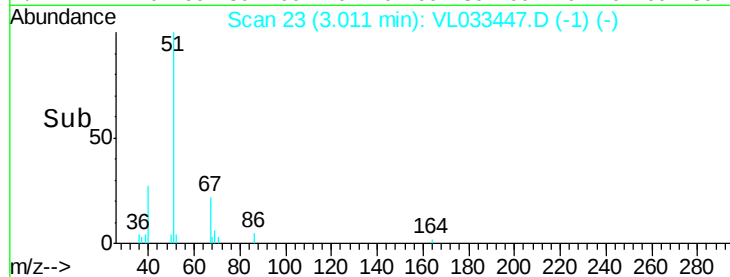
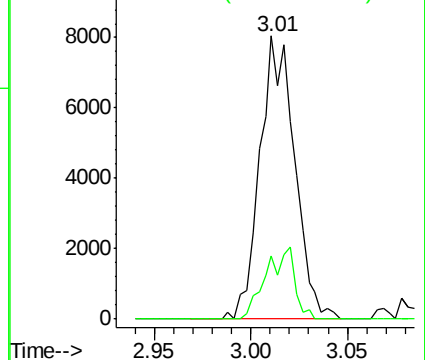
51 100

67 21.0 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.122 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033447.D

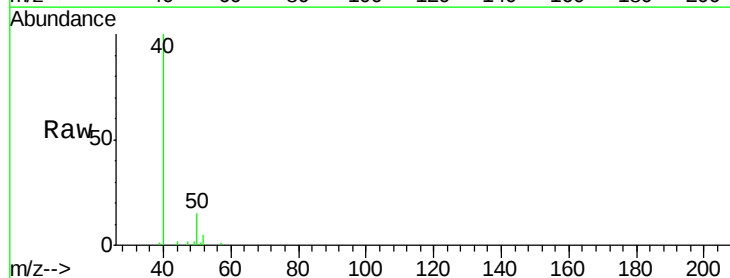
Acq: 25 Mar 2019 22:06

Tgt Ion: 50 Resp: 5287

Ion Ratio Lower Upper

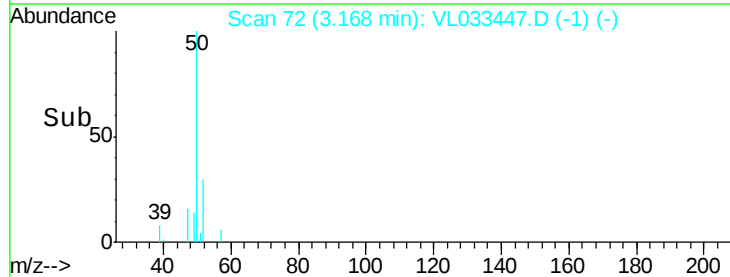
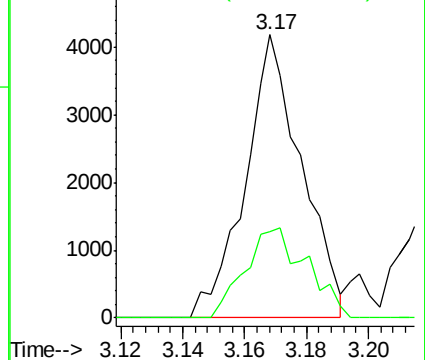
50 100

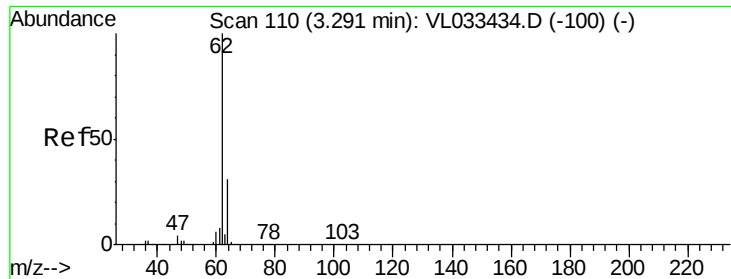
52 30.3 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.112 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

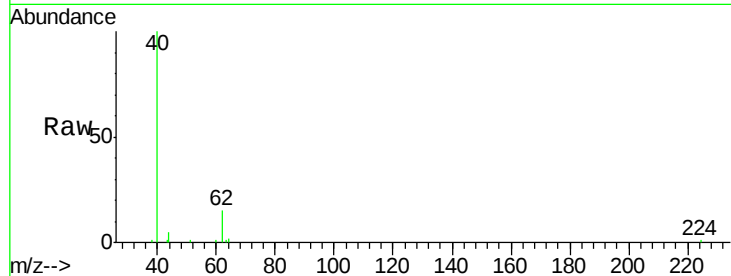
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 62 Resp: 4743

Ion Ratio Lower Upper

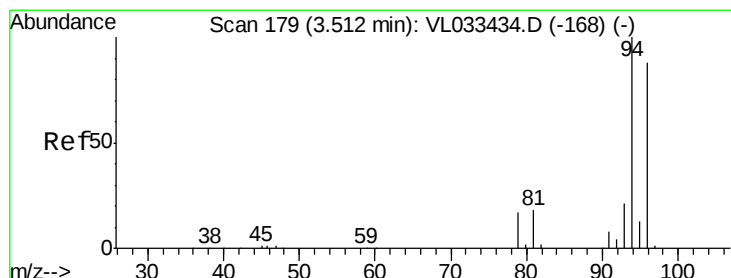
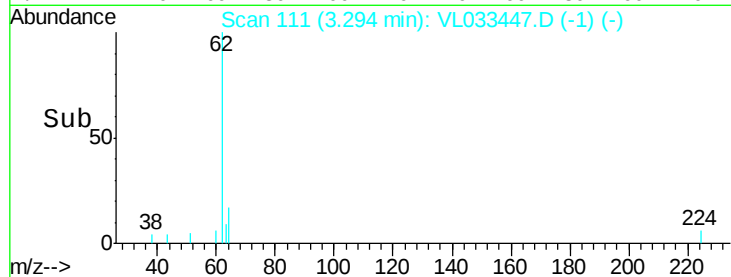
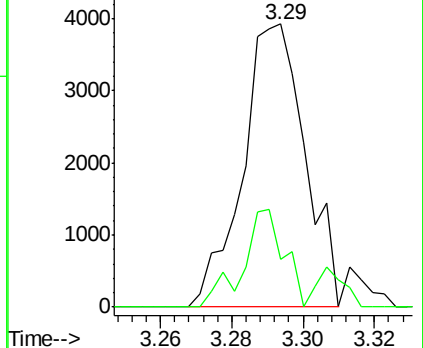
62 100

64 17.0 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.062 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033447.D

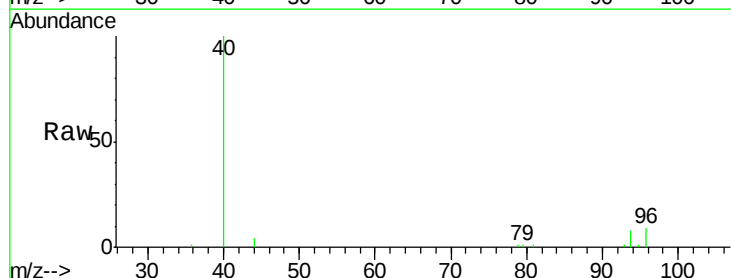
Acq: 25 Mar 2019 22:06

Tgt Ion: 94 Resp: 1677

Ion Ratio Lower Upper

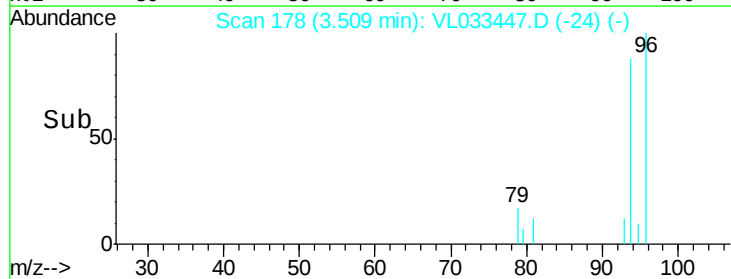
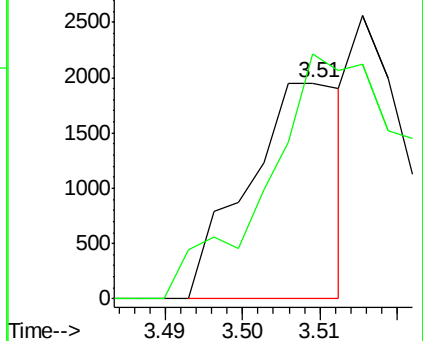
94 100

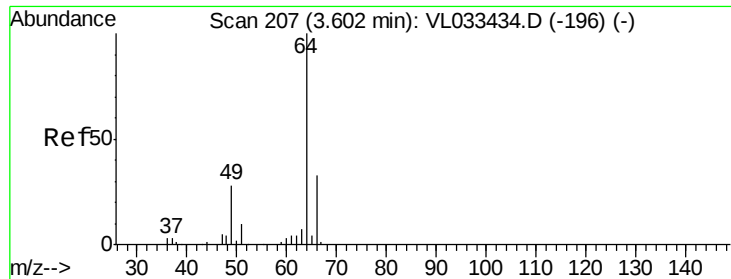
96 81.4 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.078 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

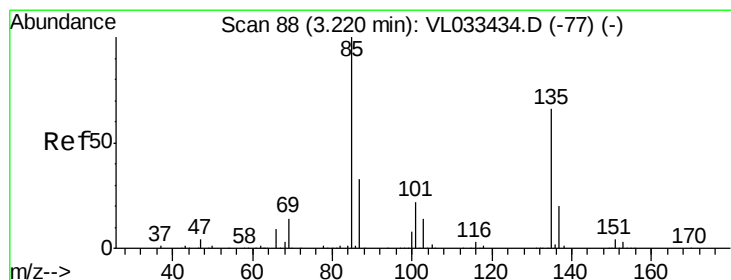
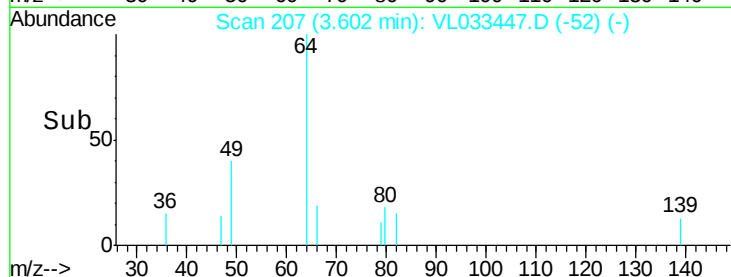
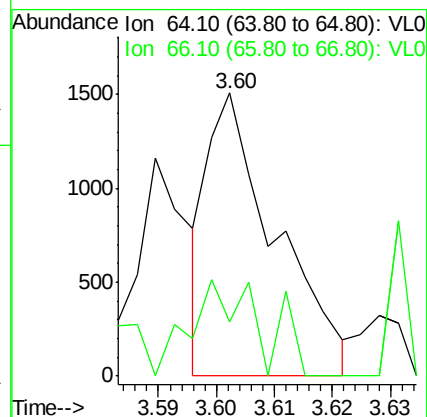
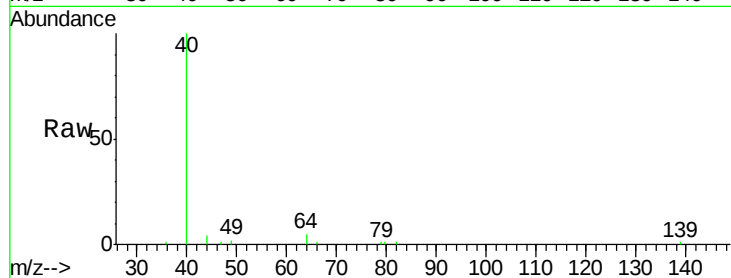
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 64 Resp: 1230

Ion Ratio Lower Upper

64 100

66 19.2 26.7 40.1#



#8

Dichlorotetrafluoroethane

Concen: 0.120 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033447.D

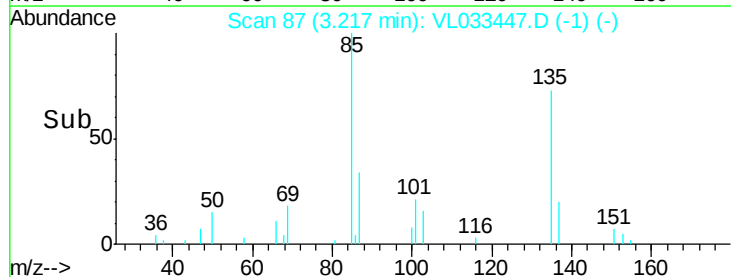
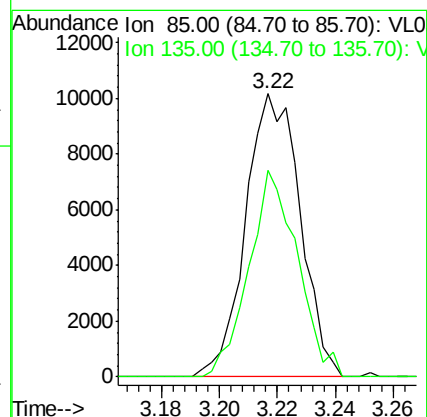
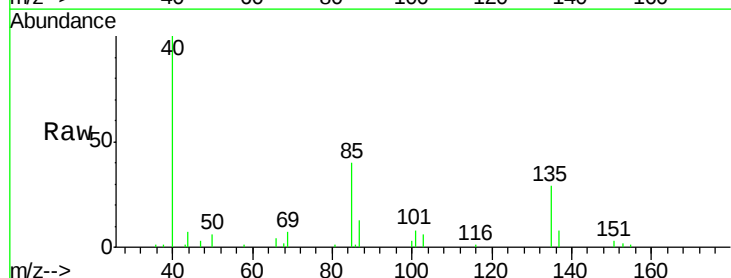
Acq: 25 Mar 2019 22:06

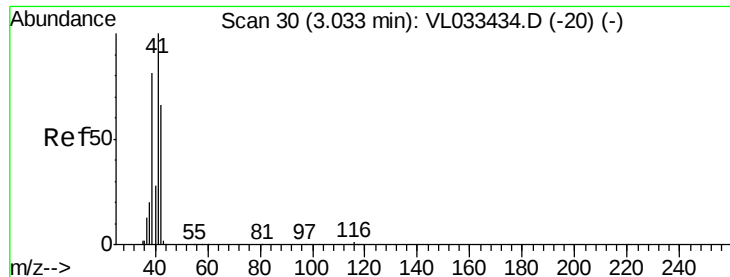
Tgt Ion: 85 Resp: 13254

Ion Ratio Lower Upper

85 100

135 65.1 54.0 81.0





#9

Propene

Concen: 0.130 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

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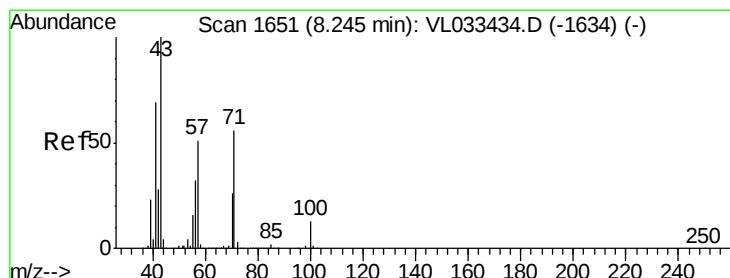
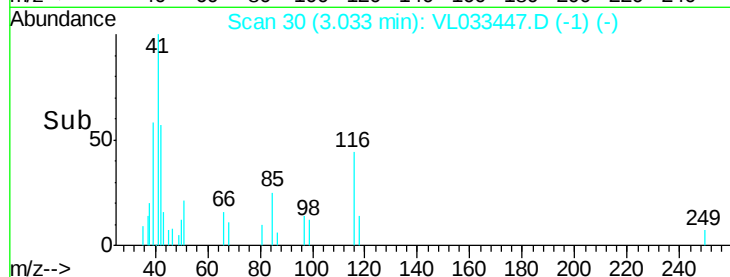
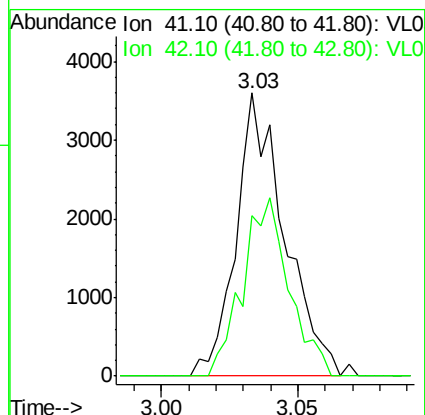
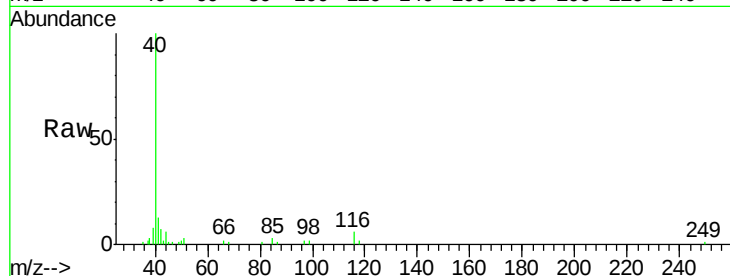
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 41 Resp: 4440

Ion Ratio Lower Upper

41 100

42 59.8 53.9 80.9



#10

Heptane

Concen: 0.034 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033447.D

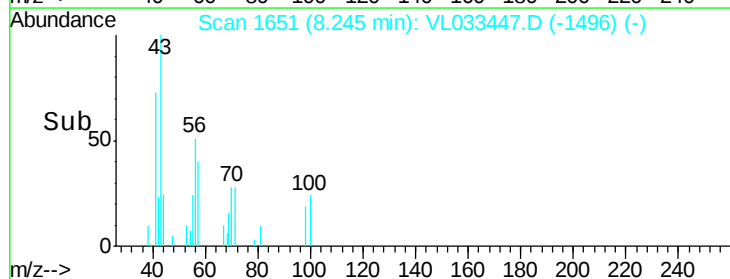
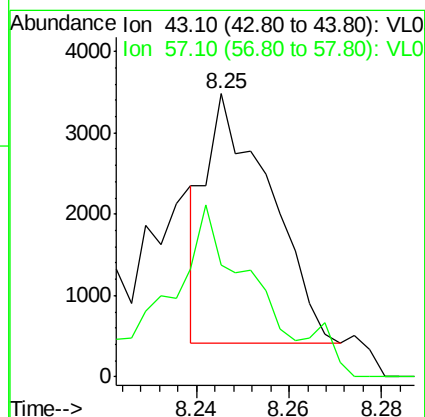
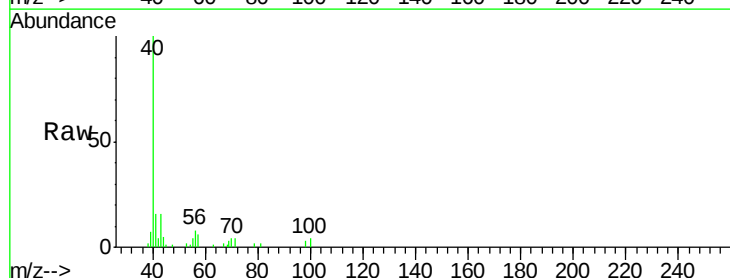
Acq: 25 Mar 2019 22:06

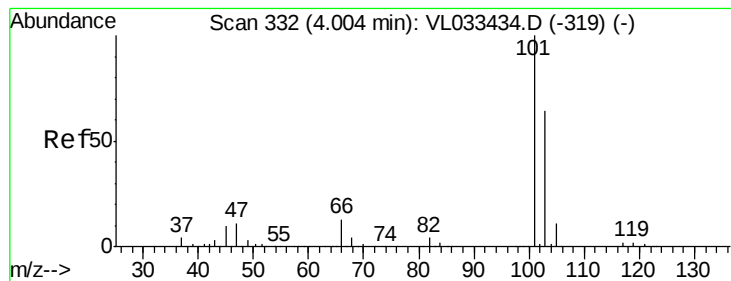
Tgt Ion: 43 Resp: 2895

Ion Ratio Lower Upper

43 100

57 98.1 40.6 60.8#





#11

Trichlorofluoromethane

Concen: 0.120 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

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ClientSampleId :

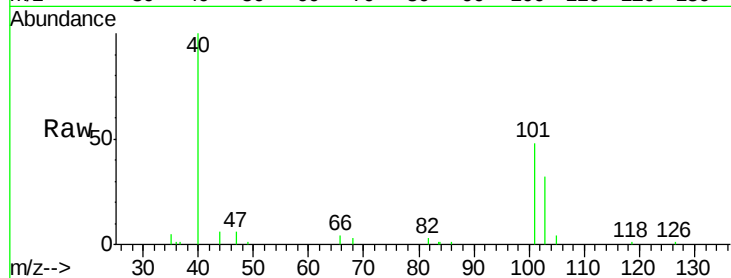
LOD-MDL-AIR-01-QT1-2019

Tgt Ion:101 Resp: 15233

Ion Ratio Lower Upper

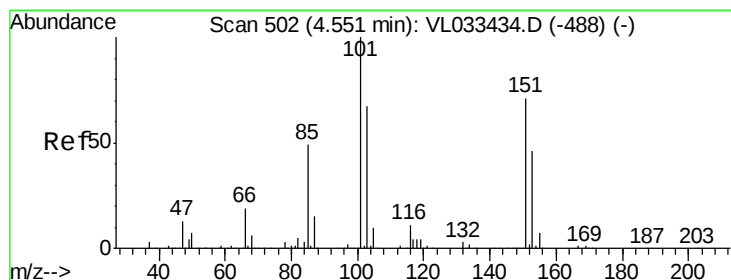
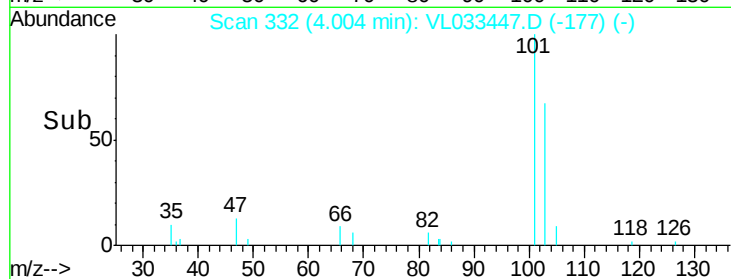
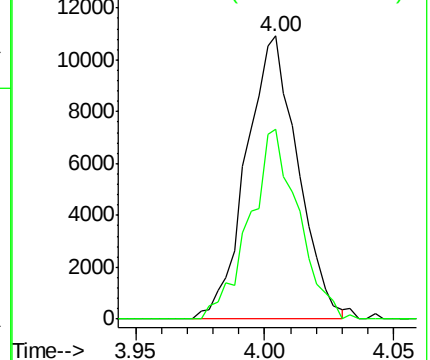
101 100

103 67.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.062 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033447.D

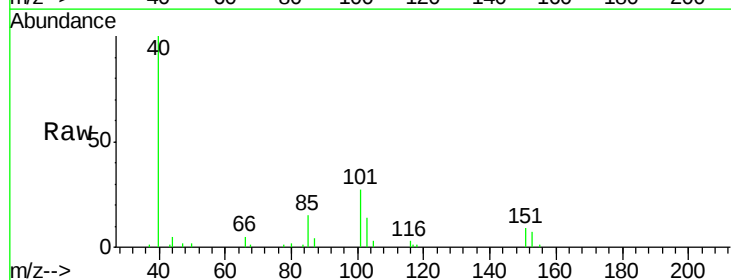
Acq: 25 Mar 2019 22:06

Tgt Ion:101 Resp: 5283

Ion Ratio Lower Upper

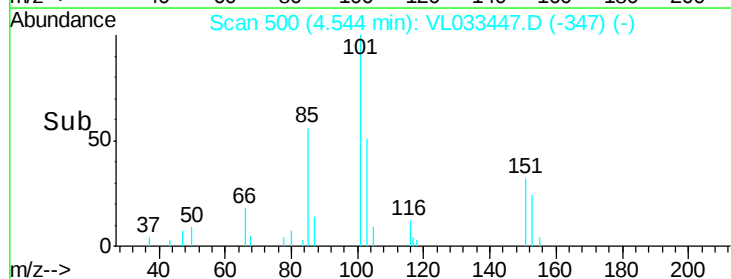
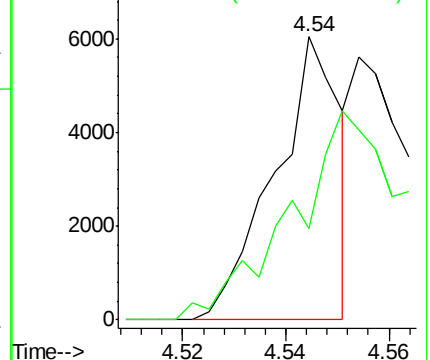
101 100

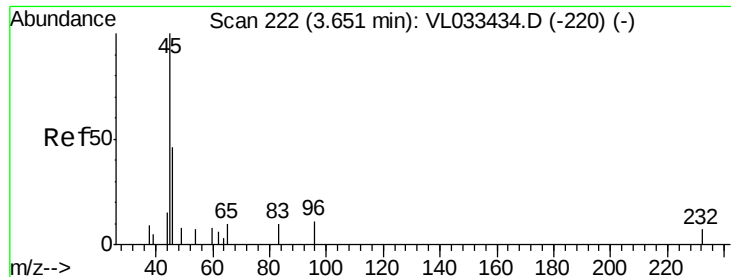
151 0.0 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

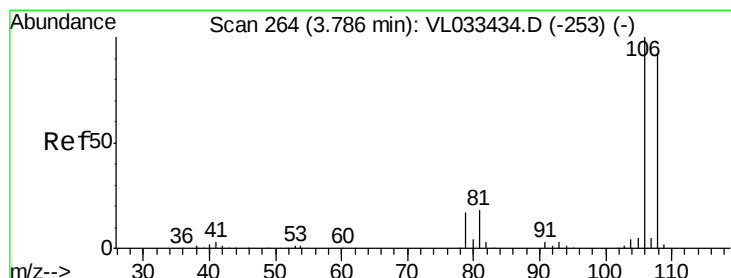
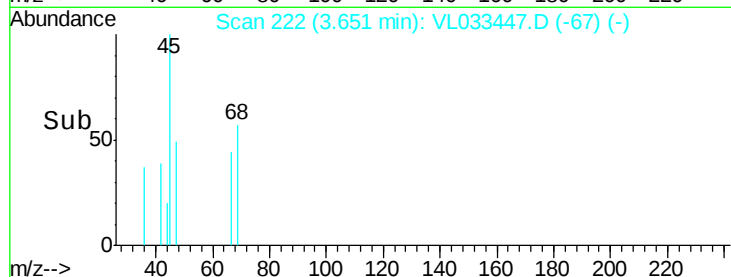
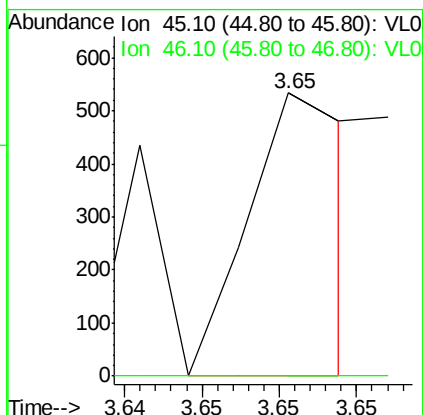
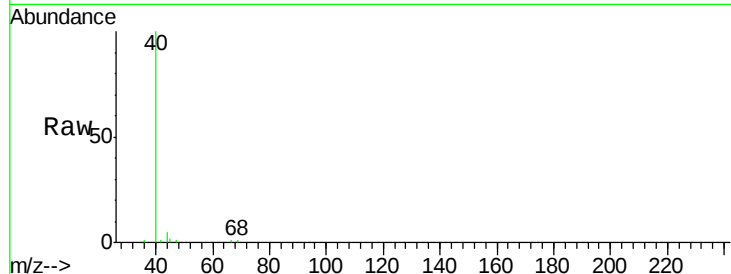




#13
Ethanol
Concen: 0.030 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

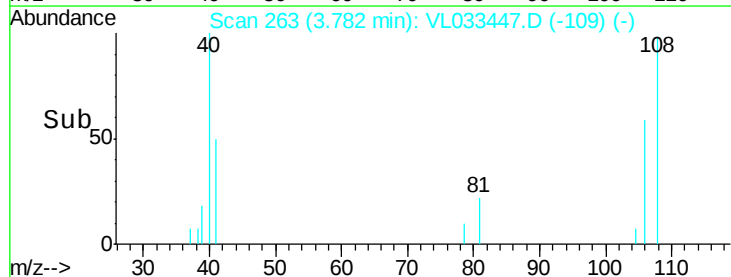
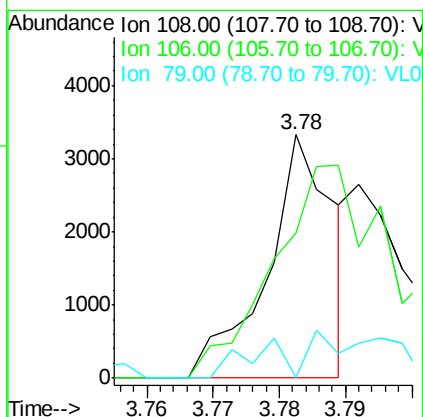
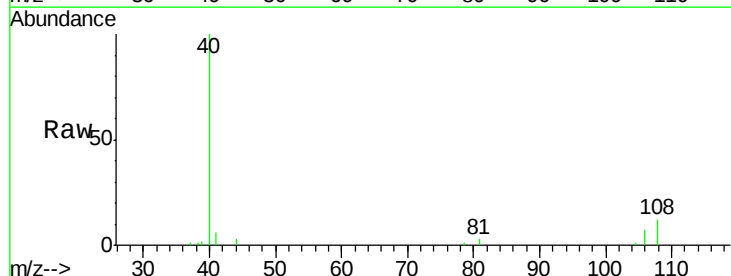
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

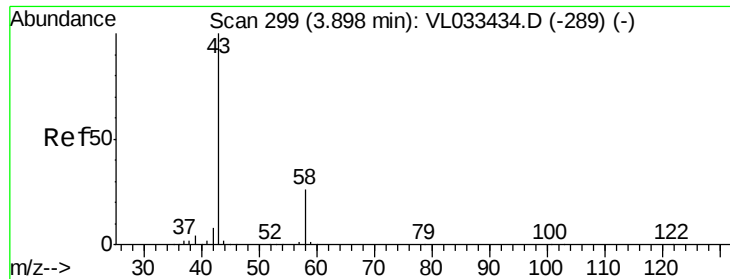
Tgt Ion: 45 Resp: 242
Ion Ratio Lower Upper
45 100
46 0.0 25.4 101.8#



#14
Bromoethene
Concen: 0.068 ppbv
RT: 3.78 min Scan# 263
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 108 Resp: 2311
Ion Ratio Lower Upper
108 100
106 0.0 86.4 129.6#
79 12.4 15.8 23.8#





#15

Acetone

Concen: 0.106 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

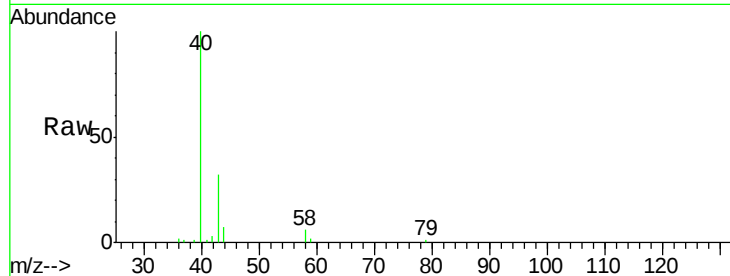
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 43 Resp: 9038

Ion Ratio Lower Upper

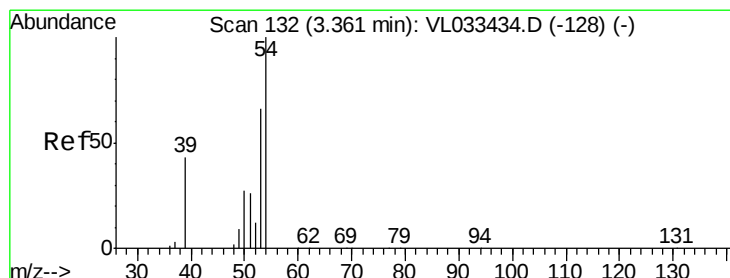
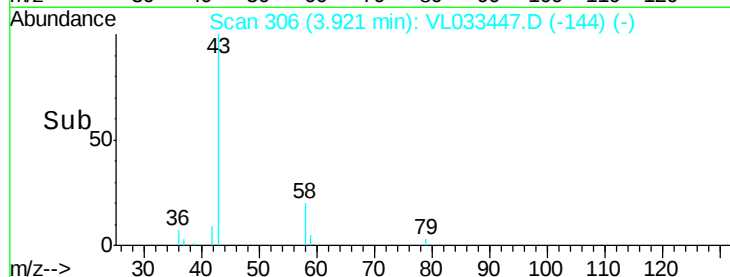
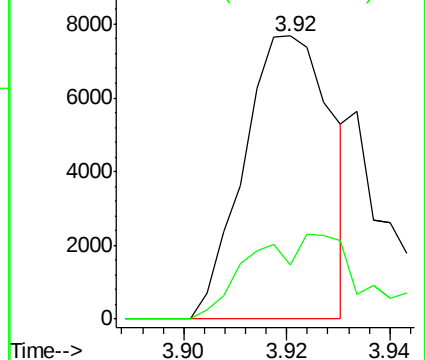
43 100

58 40.1 20.5 30.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.113 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033447.D

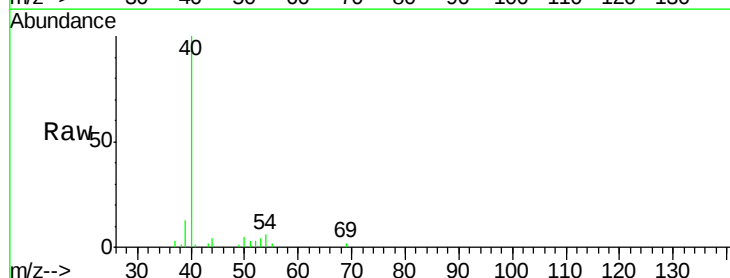
Acq: 25 Mar 2019 22:06

Tgt Ion: 39 Resp: 3813

Ion Ratio Lower Upper

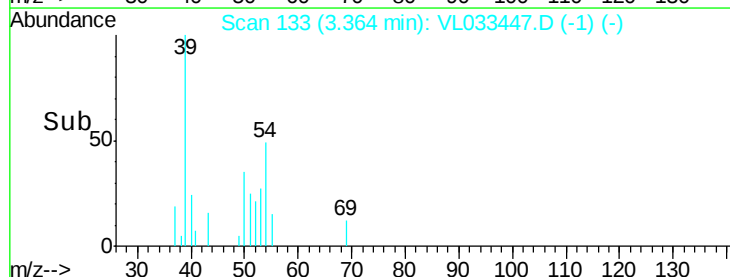
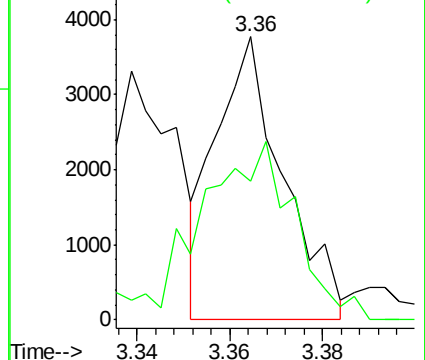
39 100

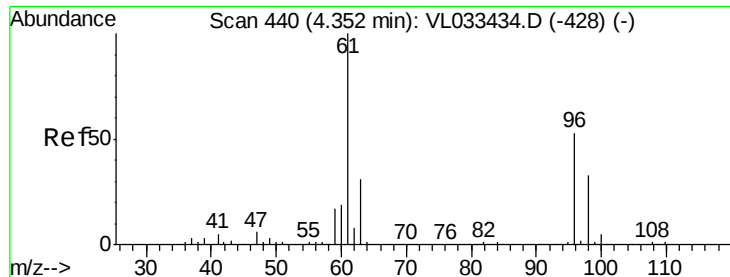
54 89.6 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.022 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

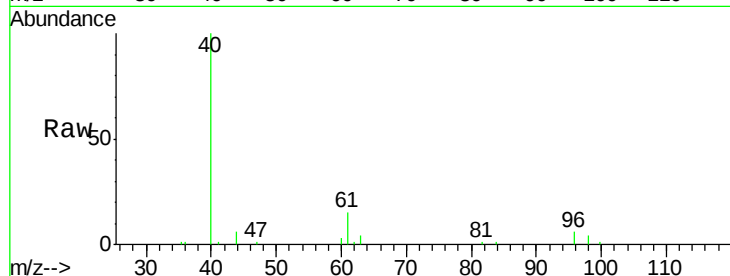
Tgt Ion: 96 Resp: 824

Ion Ratio Lower Upper

96 100

61 219.9 149.8 224.6

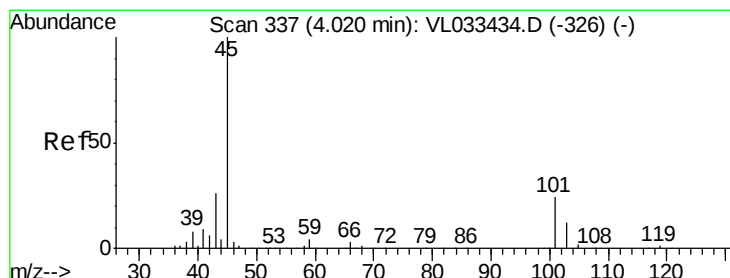
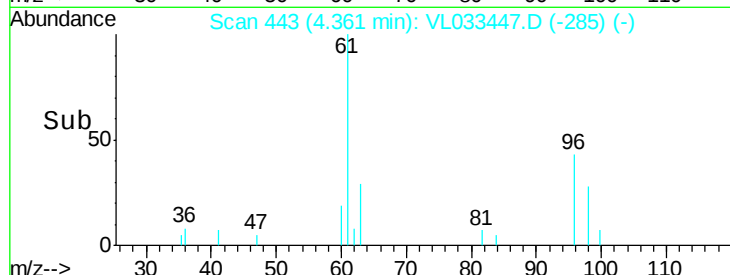
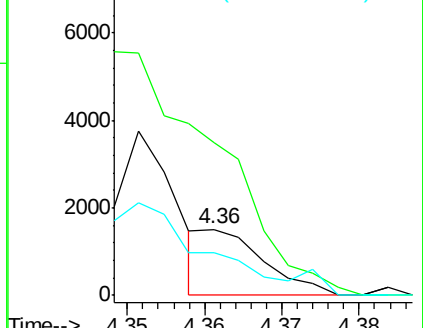
98 65.6 48.7 73.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.031 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033447.D

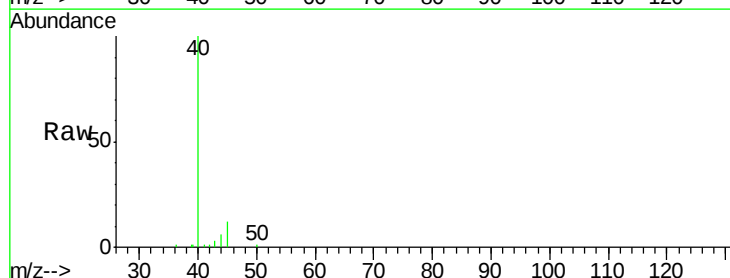
Acq: 25 Mar 2019 22:06

Tgt Ion: 45 Resp: 1684

Ion Ratio Lower Upper

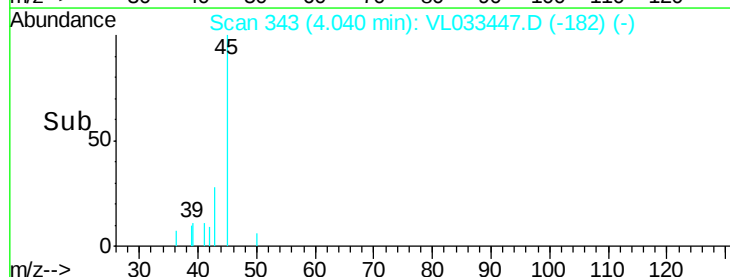
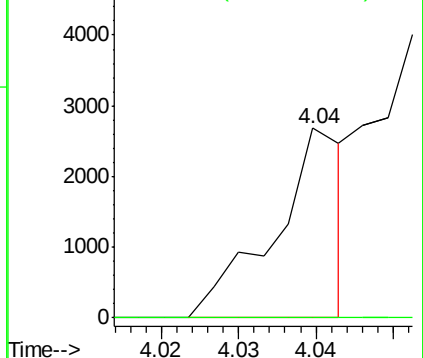
45 100

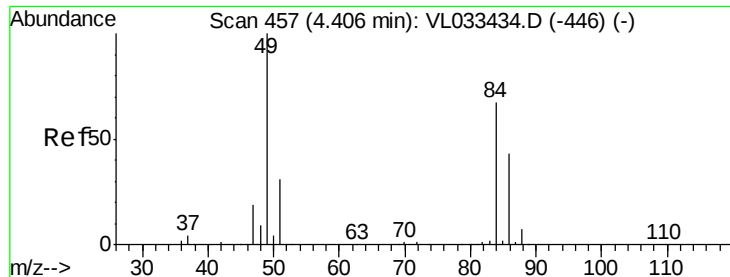
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

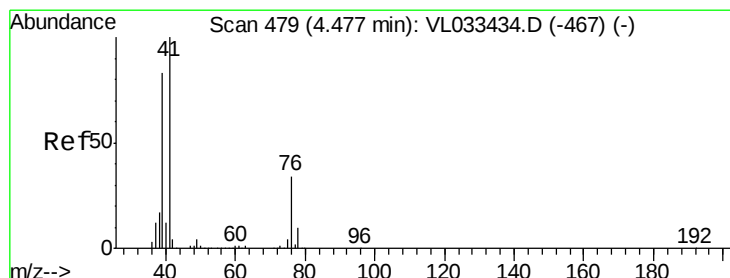
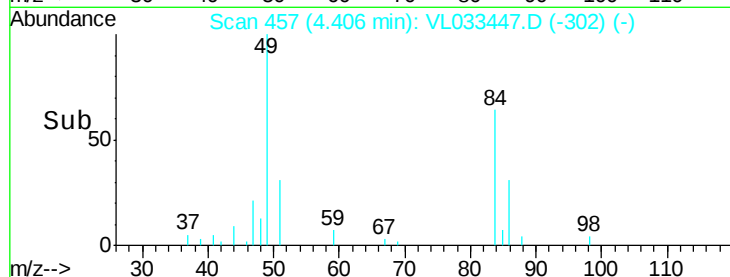
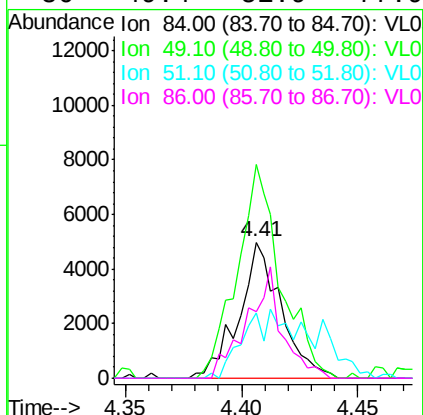
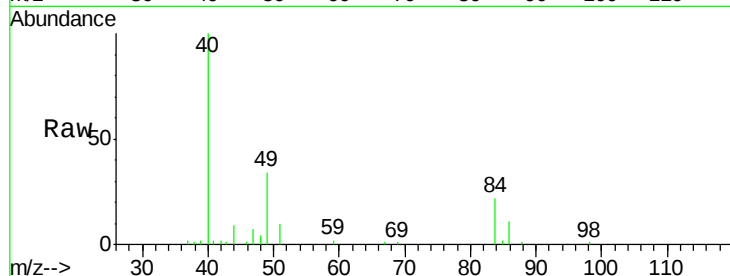




#20
Methylene Chloride
Concen: 0.174 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

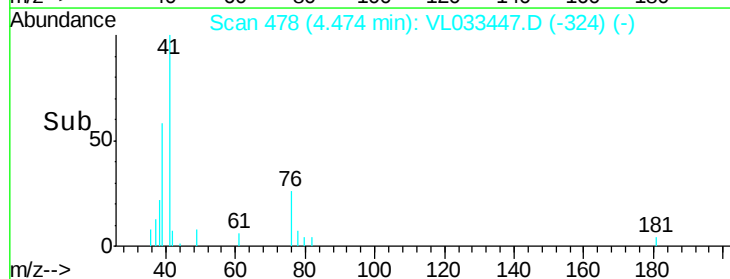
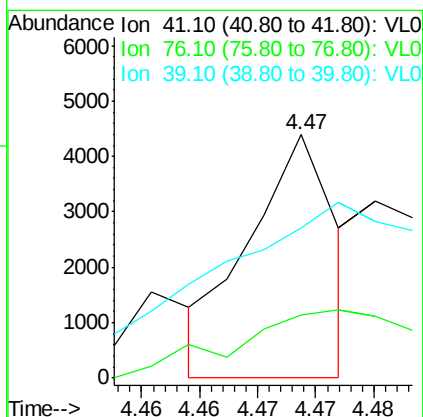
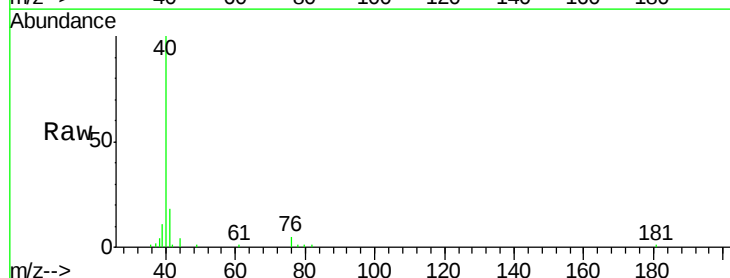
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

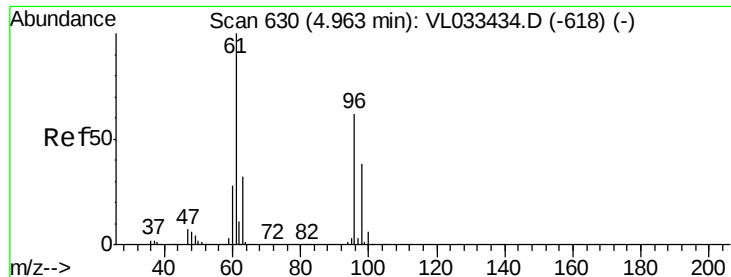
Tgt Ion: 84 Resp: 6287
Ion Ratio Lower Upper
84 100
49 157.3 120.0 180.0
51 48.3 36.7 55.1
86 49.4 51.9 77.9#



#21
Allyl Chloride
Concen: 0.042 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 41 Resp: 2285
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.2#
39 0.0 65.3 97.9#





#22

trans-1,2-Dichloroethene

Concen: 0.090 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

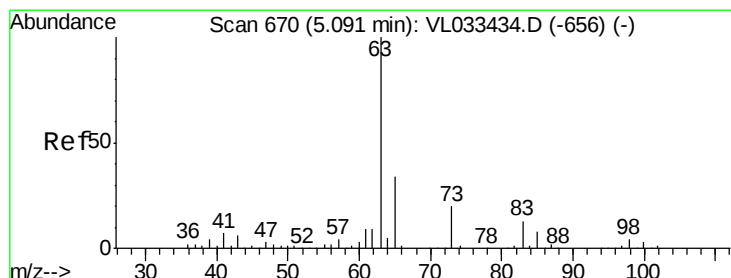
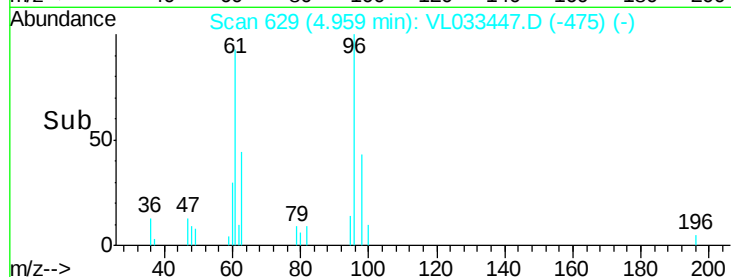
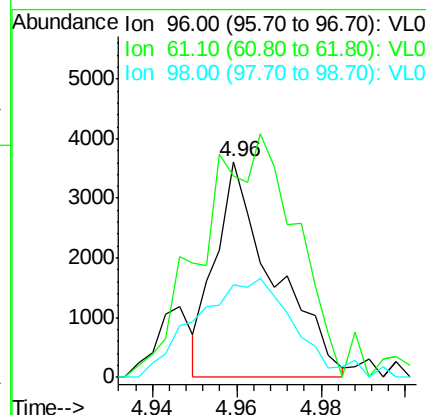
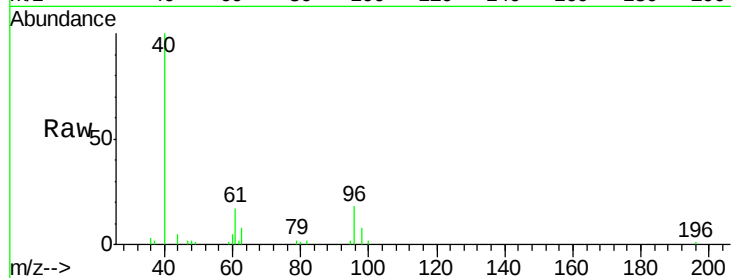
Tgt Ion: 96 Resp: 3466

Ion Ratio Lower Upper

96 100

61 108.0 128.9 193.3#

98 39.6 49.5 74.3#



#24

1,1-Dichloroethane

Concen: 0.049 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

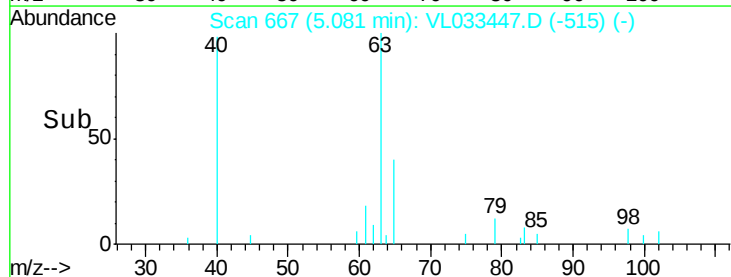
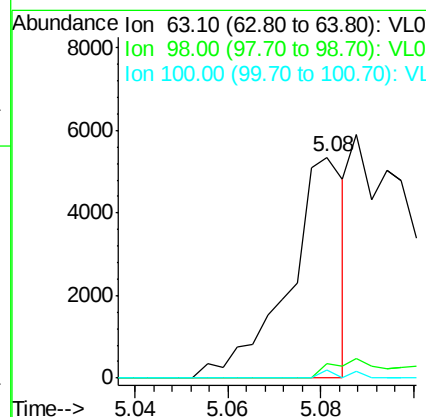
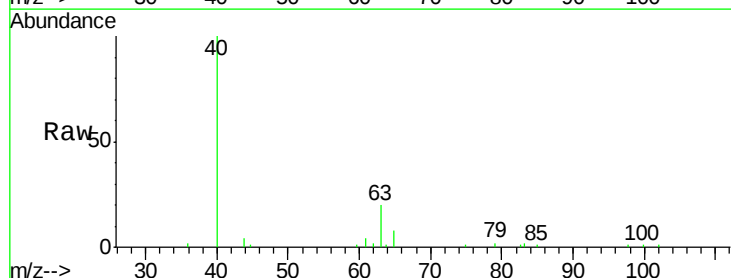
Tgt Ion: 63 Resp: 4468

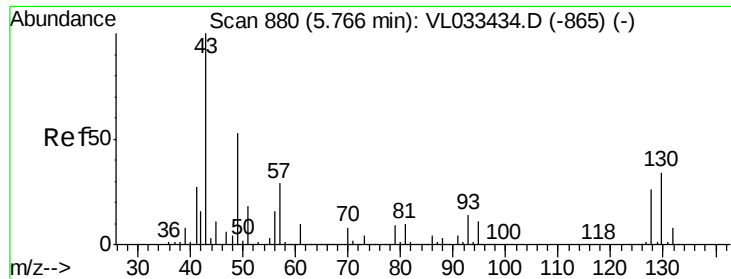
Ion Ratio Lower Upper

63 100

98 6.4 2.2 6.6

100 3.7 1.5 4.4

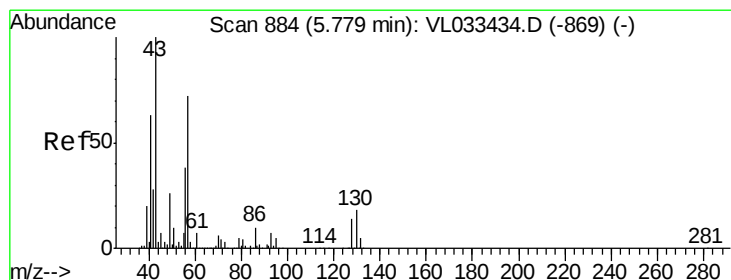
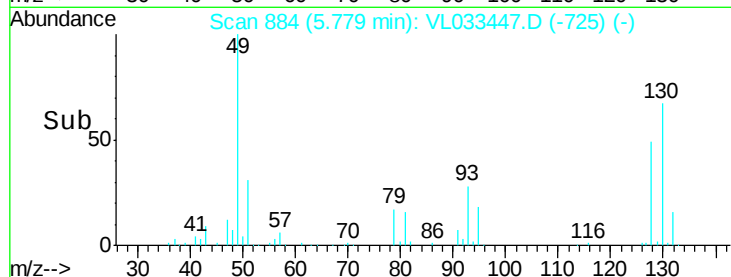
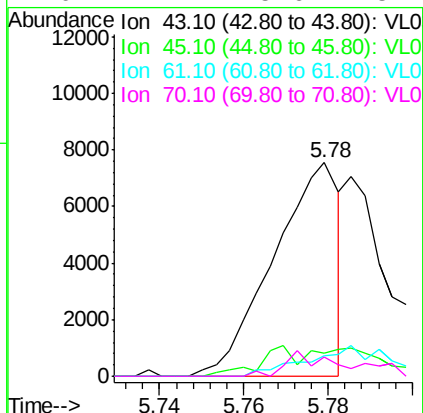
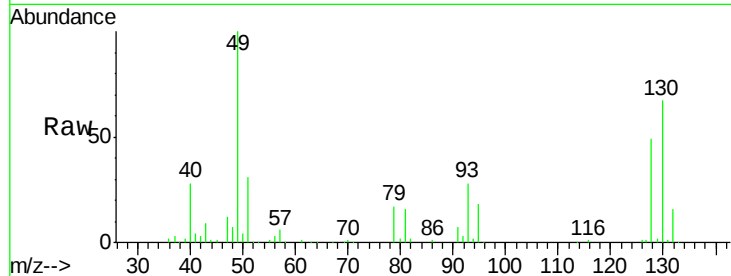




#25
Ethyl Acetate
Concen: 0.052 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

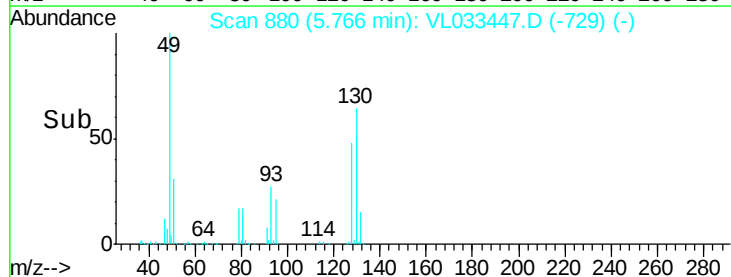
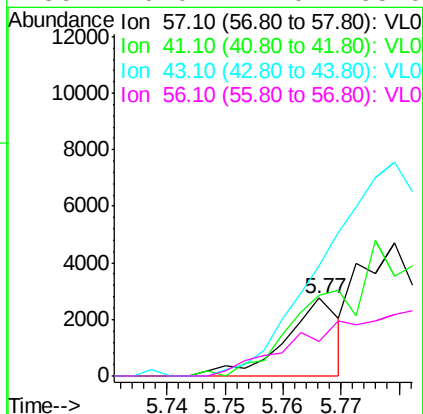
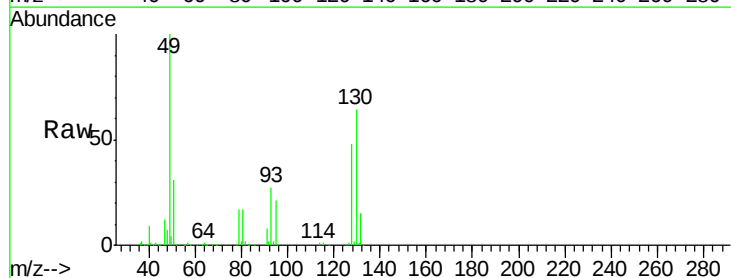
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

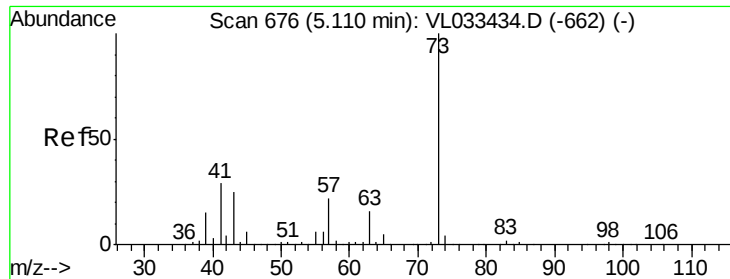
Tgt Ion:	43	Resp:	8208
Ion	Ratio	Lower	Upper
43	100		
45	23.1	7.8	11.6#
61	0.0	7.3	10.9#
70	11.4	5.6	8.4#



#26
Hexane
Concen: 0.025 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion:	57	Resp:	1778
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.7	106.1#
43	0.0	182.6	274.0#
56	0.0	42.0	63.0#



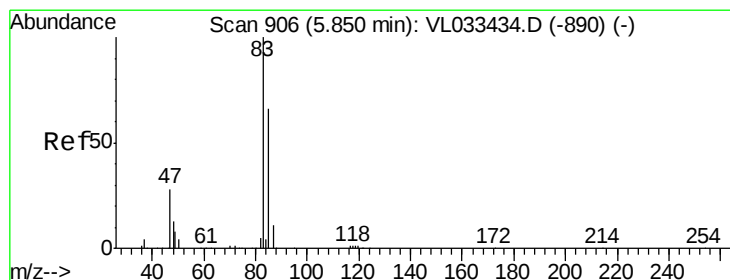
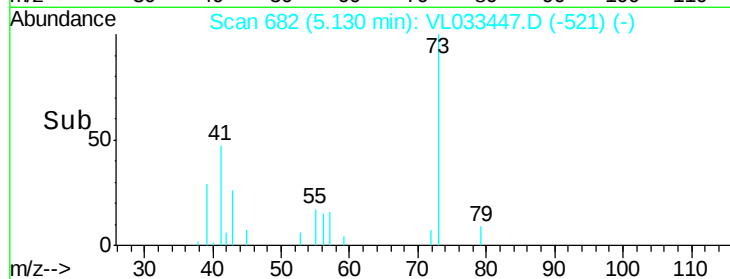
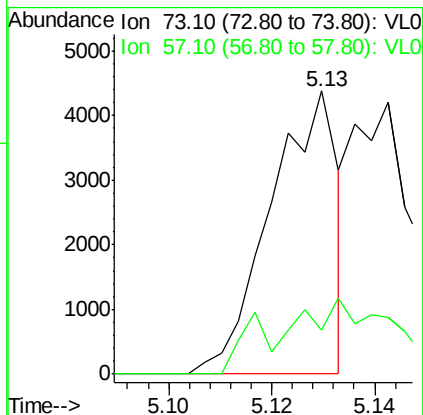
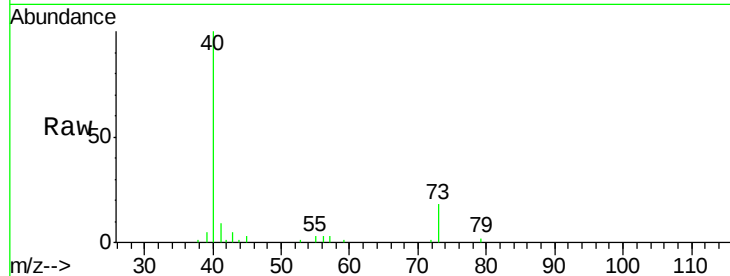


#28

Methyl tert-Butyl Ether
 Concen: 0.039 ppbv
 RT: 5.13 min Scan# 682
 Delta R.T. 0.02 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

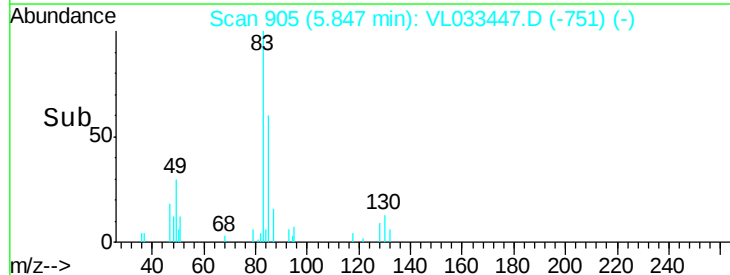
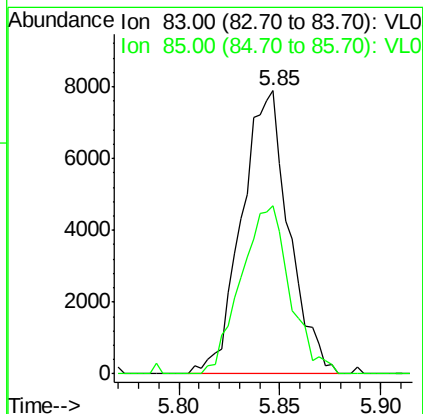
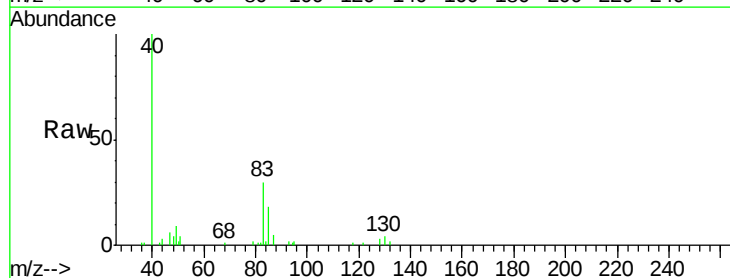
Tgt Ion: 73 Resp: 3956
 Ion Ratio Lower Upper
 73 100
 57 45.6 17.4 26.2#

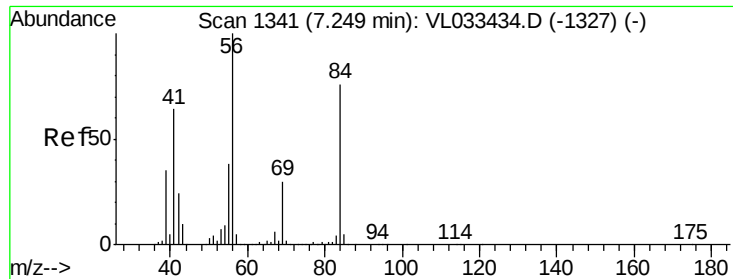


#29

Chloroform
 Concen: 0.107 ppbv
 RT: 5.85 min Scan# 905
 Delta R.T. -0.00 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Tgt Ion: 83 Resp: 12940
 Ion Ratio Lower Upper
 83 100
 85 59.6 52.6 79.0

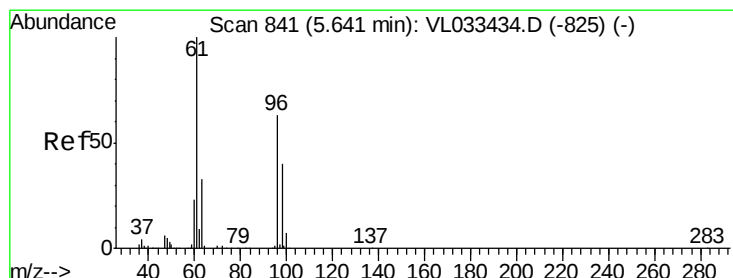
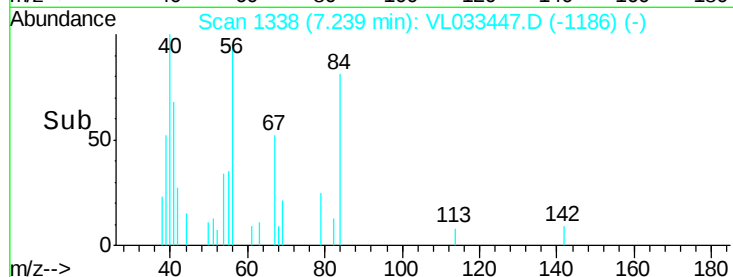
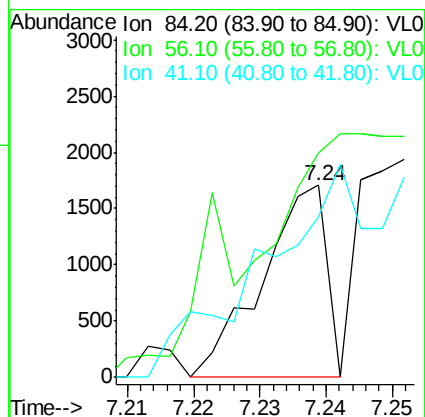
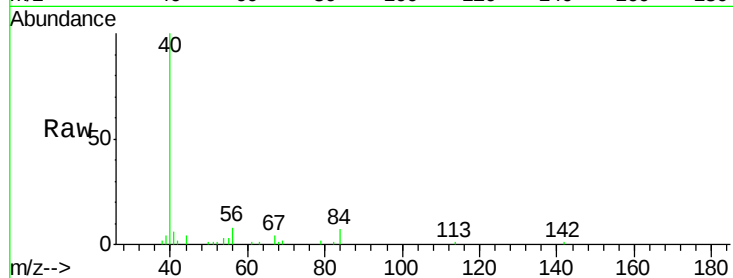




#30
Cyclohexane
Concen: 0.021 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

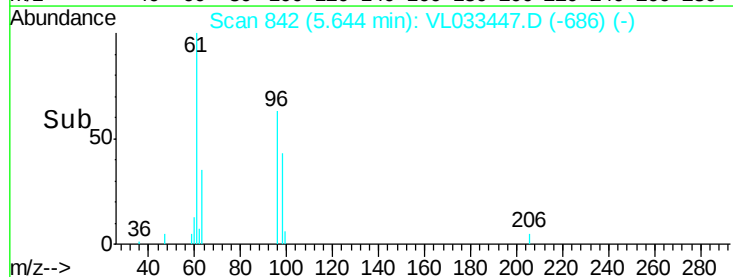
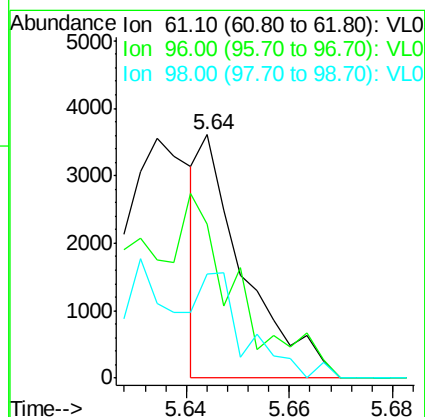
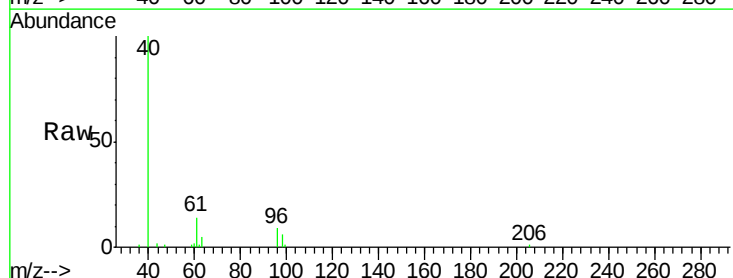
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

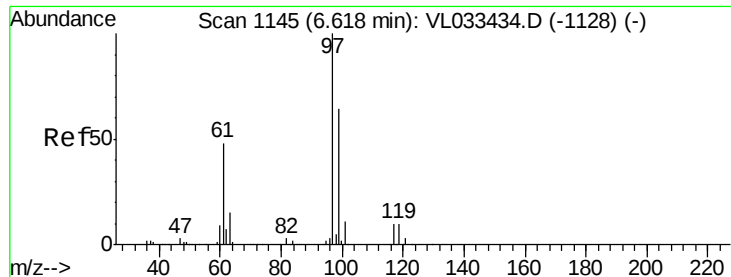
Tgt Ion: 84 Resp: 1144
Ion Ratio Lower Upper
84 100
56 0.0 109.7 164.5#
41 331.9 68.2 102.2#



#31
cis-1,2-Dichloroethene
Concen: 0.031 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 61 Resp: 2153
Ion Ratio Lower Upper
61 100
96 58.8 50.6 76.0
98 39.8 32.2 48.2





#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

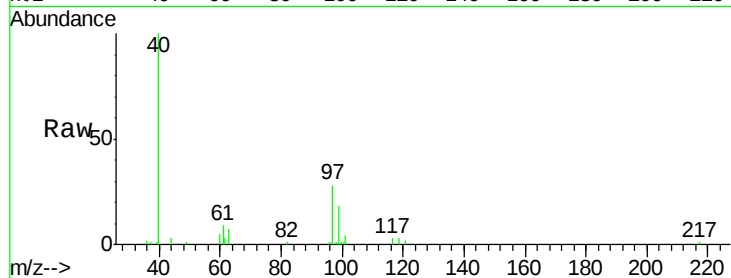
Tgt Ion: 97 Resp: 11261

Ion Ratio Lower Upper

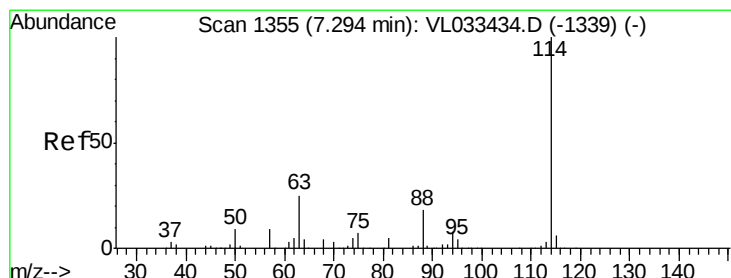
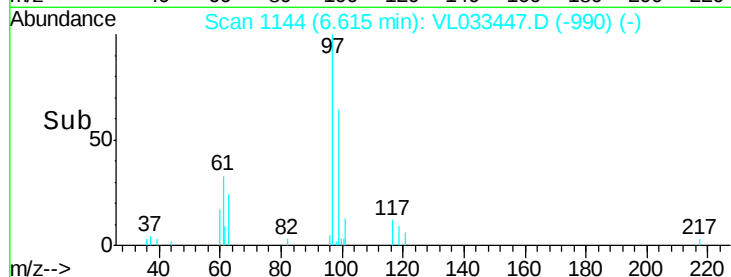
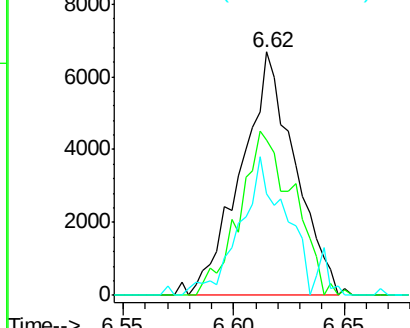
97 100

99 68.1 51.5 77.3

61 51.8 38.8 58.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

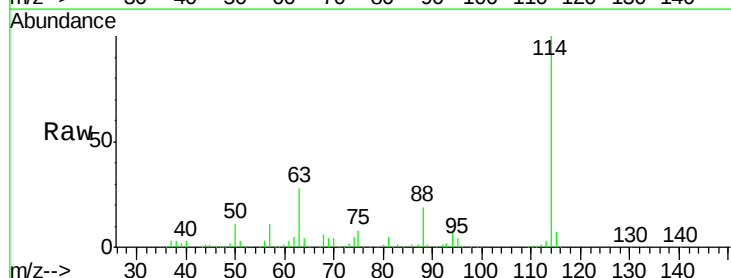
Tgt Ion: 114 Resp: 1635070

Ion Ratio Lower Upper

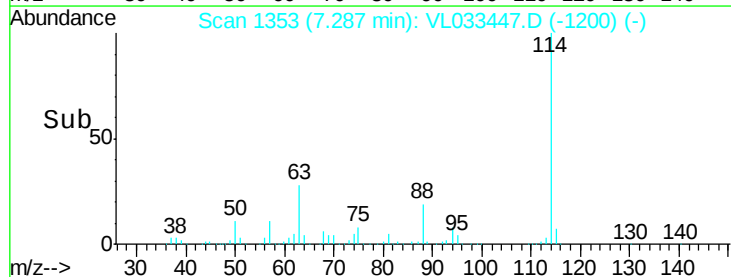
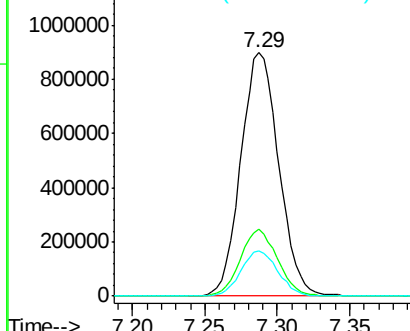
114 100

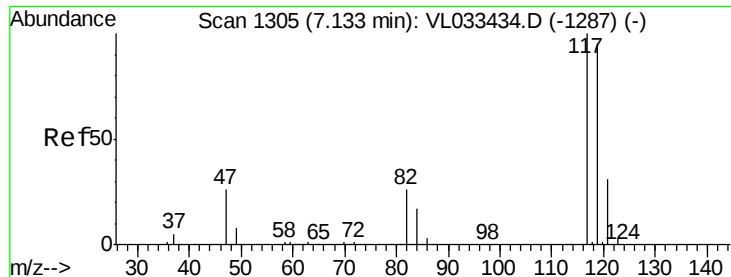
63 26.9 21.5 32.3

88 18.3 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.099 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

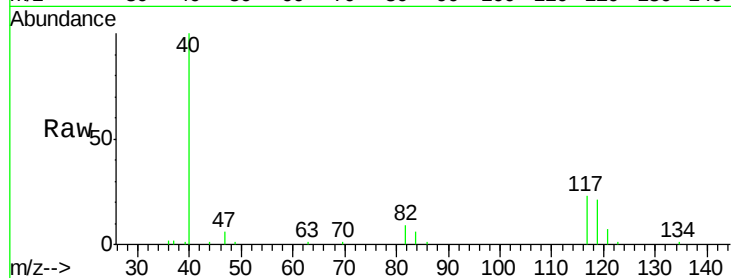
Tgt Ion: 117 Resp: 10529

Ion Ratio Lower Upper

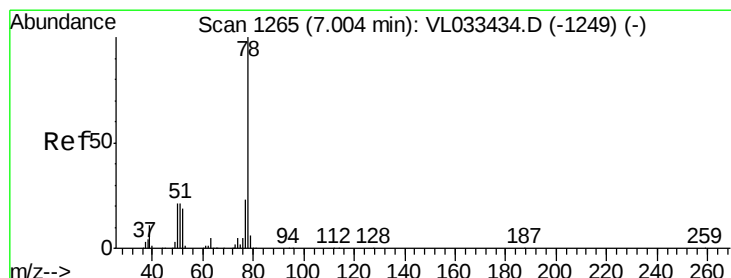
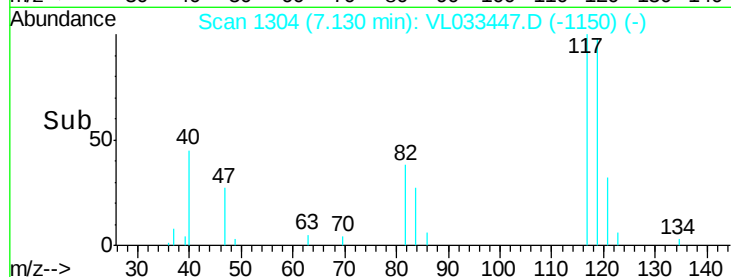
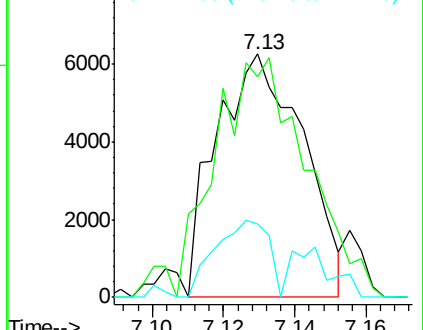
117 100

119 63.4 75.8 113.8#

121 29.9 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.050 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

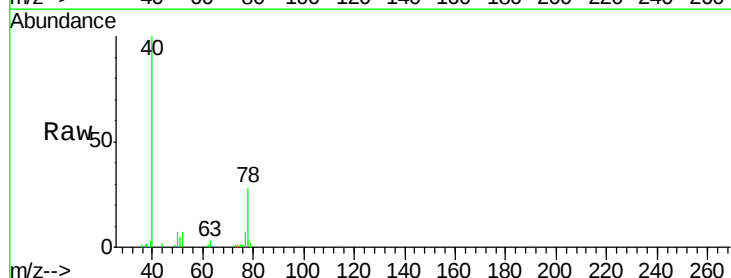
Tgt Ion: 78 Resp: 6868

Ion Ratio Lower Upper

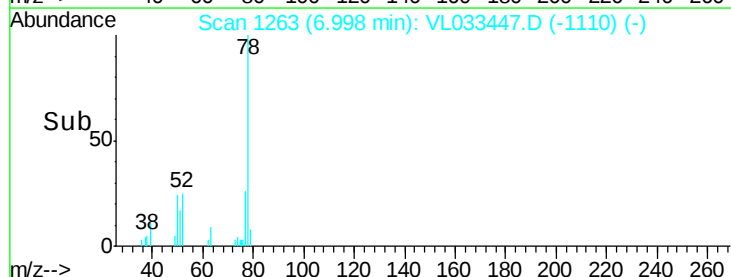
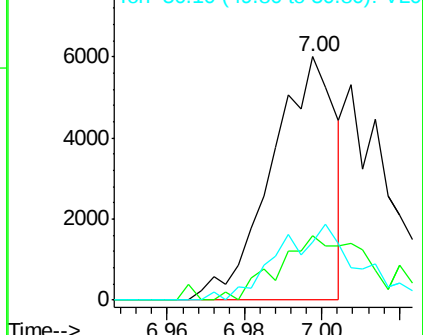
78 100

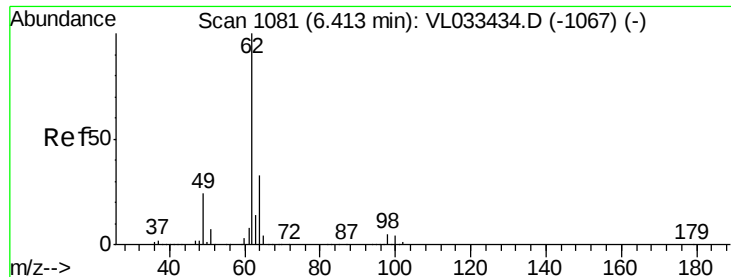
77 19.5 18.1 27.1

50 23.7 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

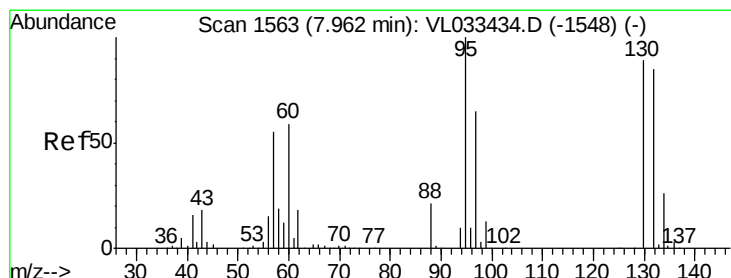
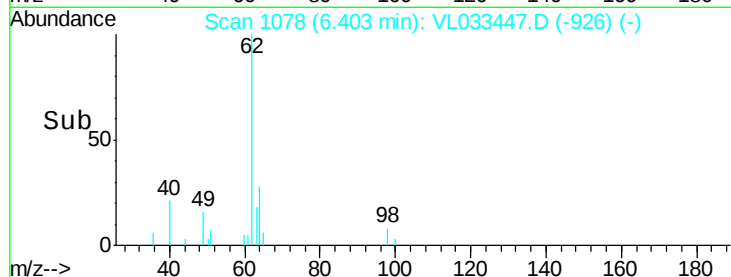
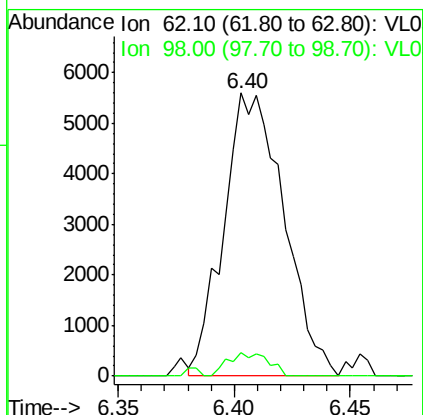
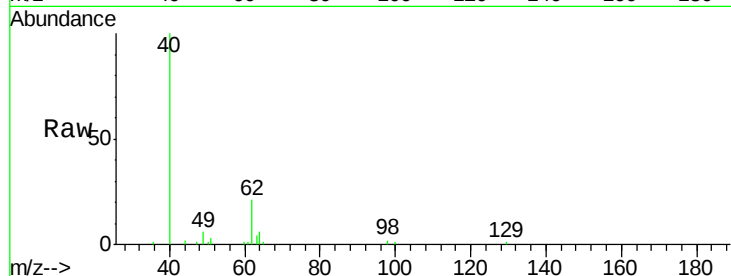




#37
 1,2-Dichloroethane
 Concen: 0.110 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

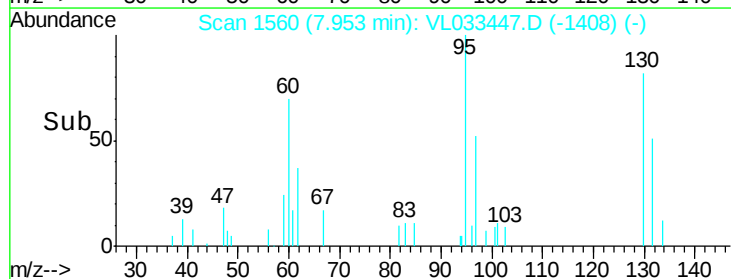
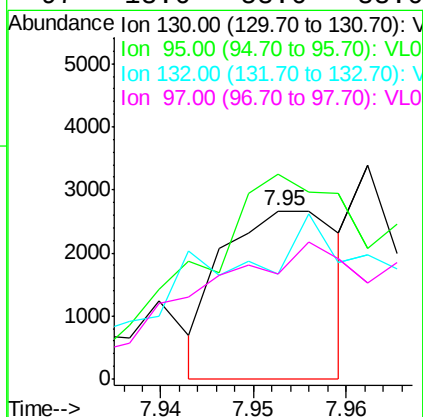
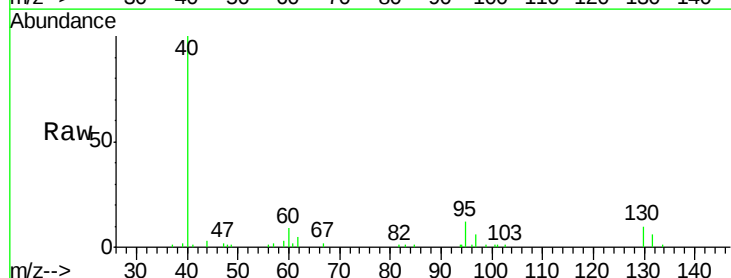
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

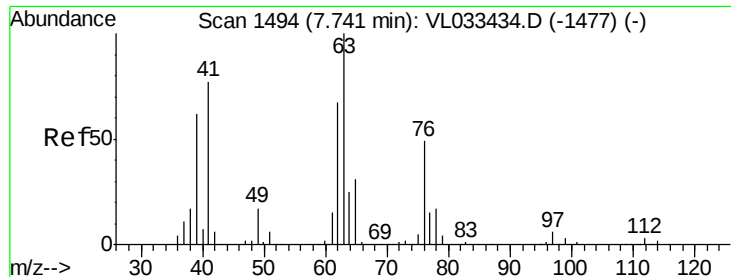
Tgt Ion: 62 Resp: 10098
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.4 6.6



#38
 Trichloroethene
 Concen: 0.045 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Tgt Ion: 130 Resp: 2320
 Ion Ratio Lower Upper
 130 100
 95 69.4 89.8 134.8#
 132 0.0 76.6 115.0#
 97 18.6 58.6 88.0#





#39

1,2-Dichloropropane

Concen: 0.093 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

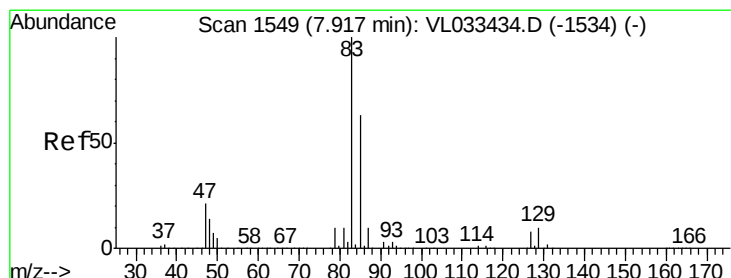
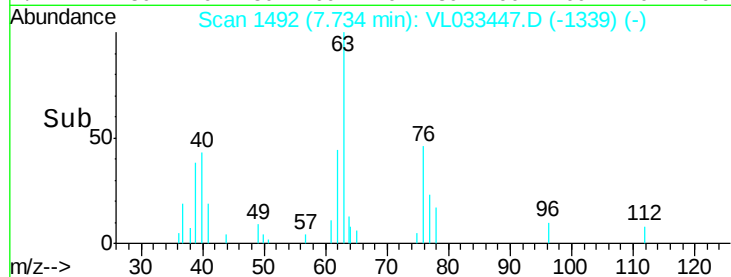
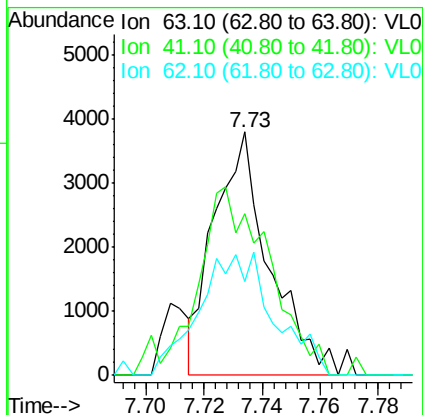
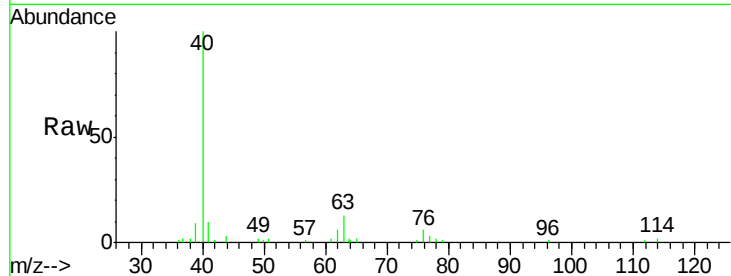
Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

Tgt Ion:	63	Resp:	5024
Ion	Ratio	Lower	Upper
63	100		
41	66.5	61.2	91.8
62	38.6	54.0	81.0#



#42

Bromodichloromethane

Concen: 0.087 ppbv

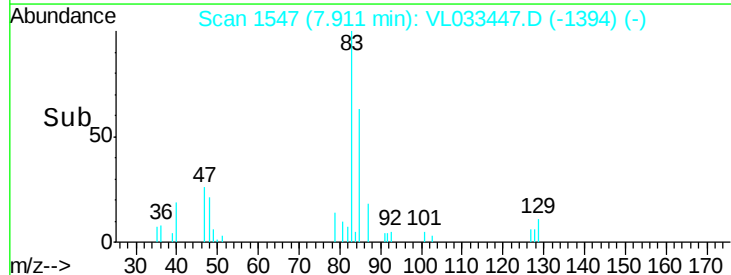
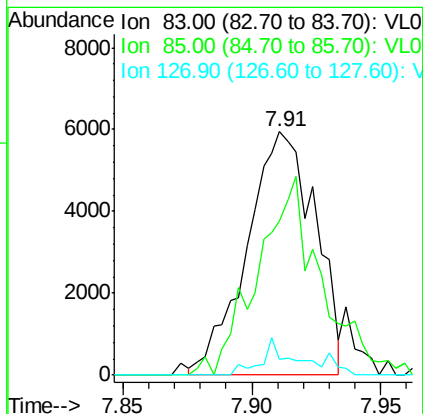
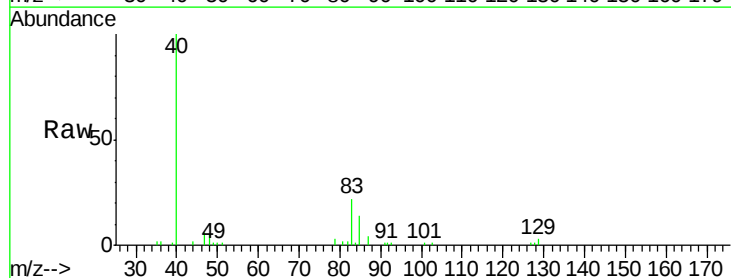
RT: 7.91 min Scan# 1547

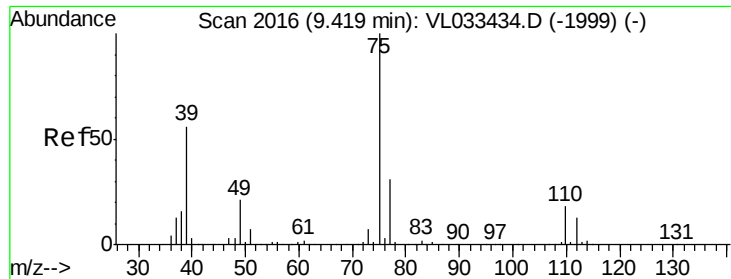
Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Tgt Ion:	83	Resp:	10953
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.7	76.1
127	6.6	6.6	9.8





#45

t-1,3-Dichloropropene

Concen: 0.049 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

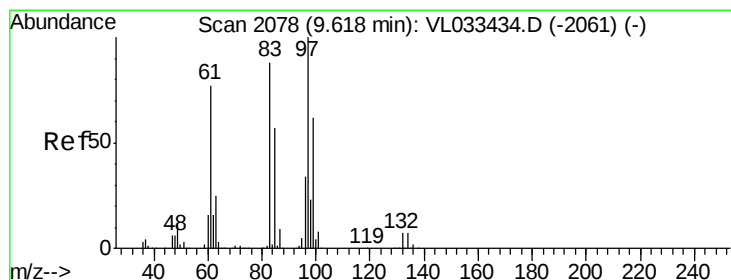
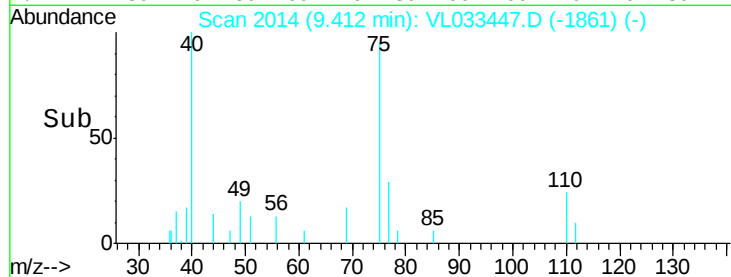
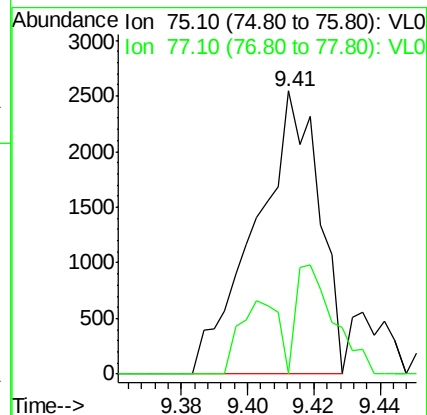
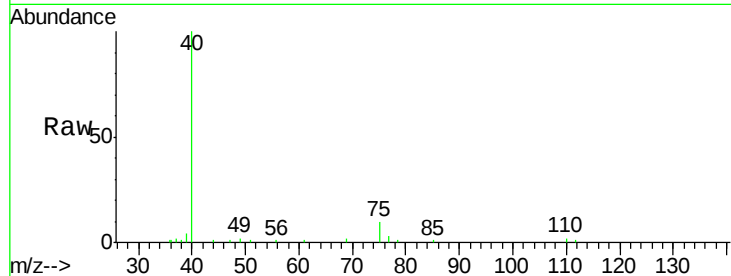
LOD-MDL-AIR-01-QT1-2019

Tgt Ion: 75 Resp: 3361

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#



#47

1,1,2-Trichloroethane

Concen: 0.049 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Tgt Ion: 97 Resp: 2964

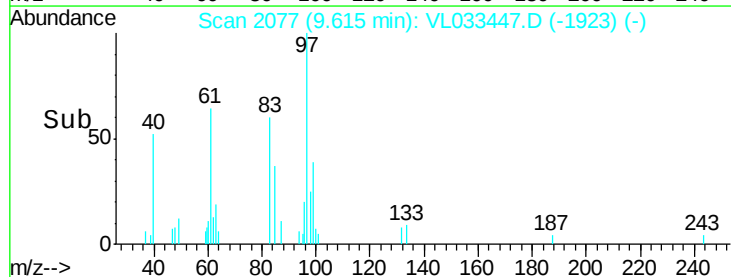
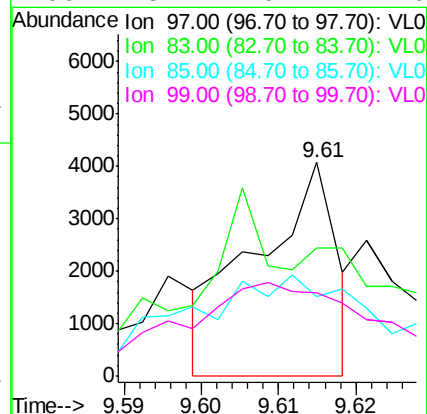
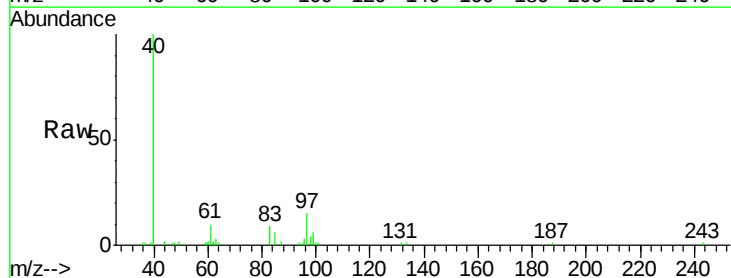
Ion Ratio Lower Upper

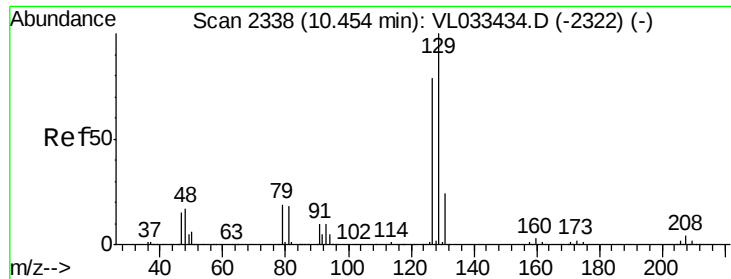
97 100

83 38.0 70.5 105.7#

85 8.6 45.6 68.4#

99 28.7 49.4 74.0#

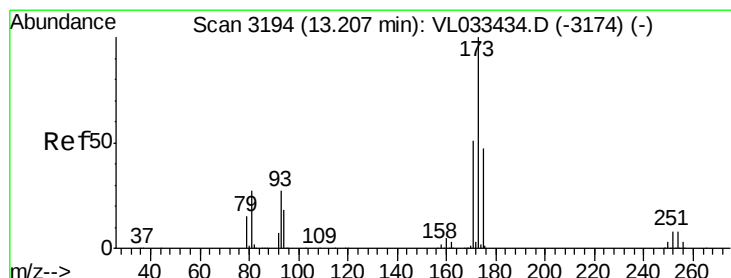
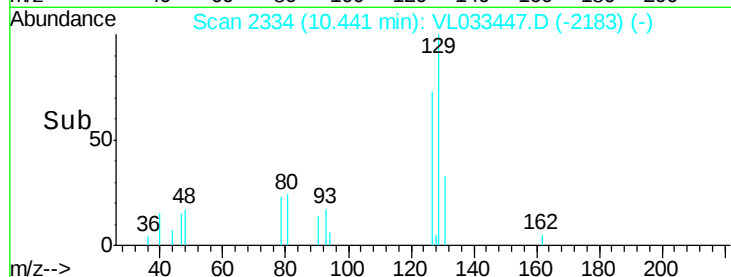
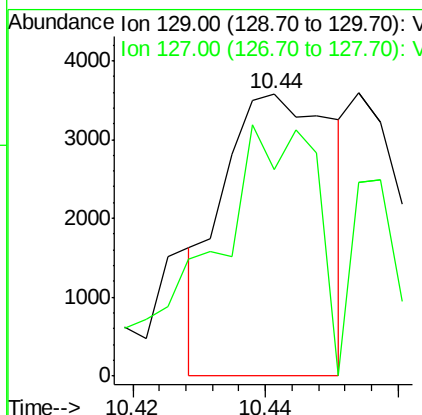
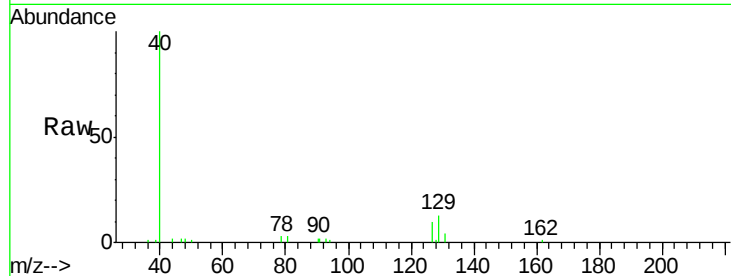




#48
 Dibromochloromethane
 Concen: 0.040 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

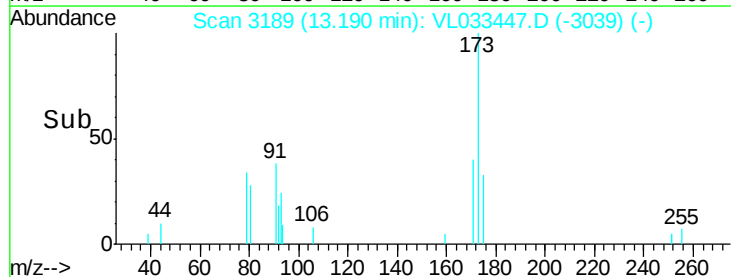
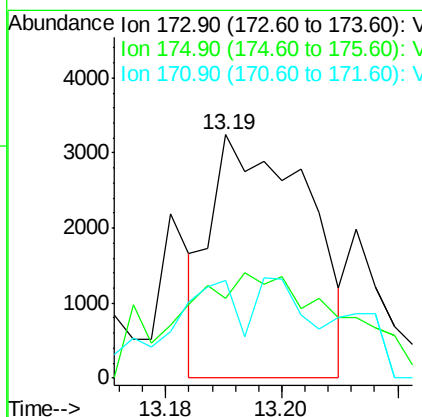
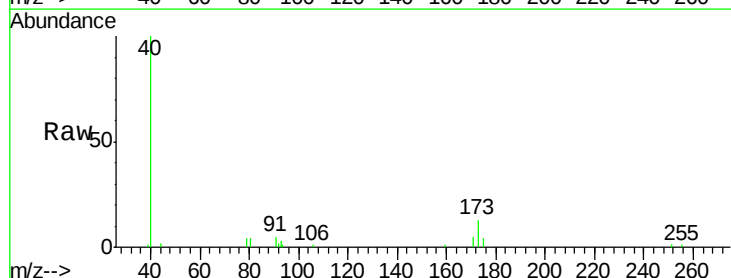
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

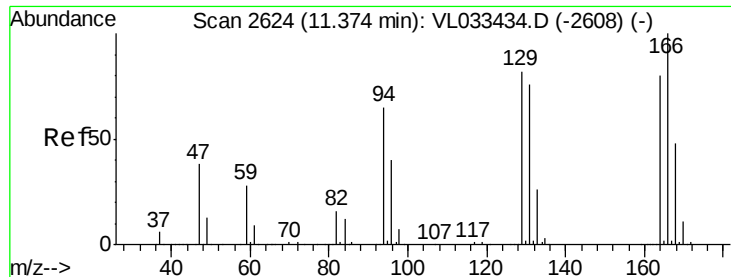
Tgt Ion:129 Resp: 4138
 Ion Ratio Lower Upper
 129 100
 127 143.4 39.1 117.2#



#49
 Bromoform
 Concen: 0.038 ppbv
 RT: 13.19 min Scan# 3189
 Delta R.T. -0.02 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Tgt Ion:173 Resp: 3747
 Ion Ratio Lower Upper
 173 100
 175 82.3 39.3 58.9#
 171 71.5 41.2 61.8#

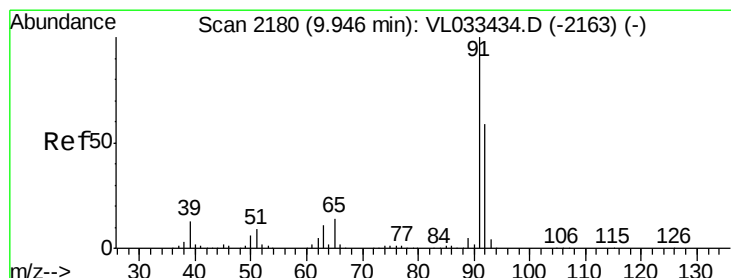
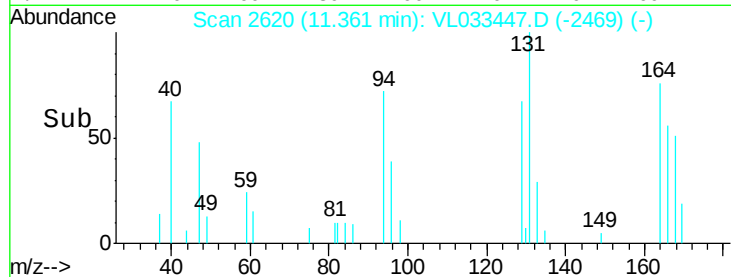
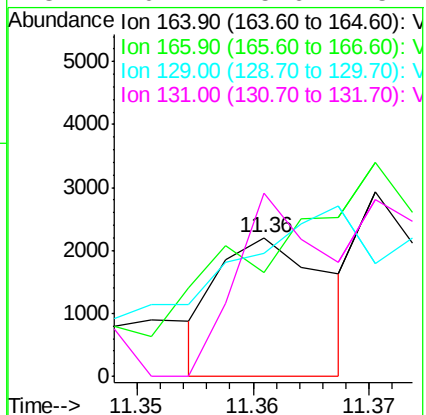
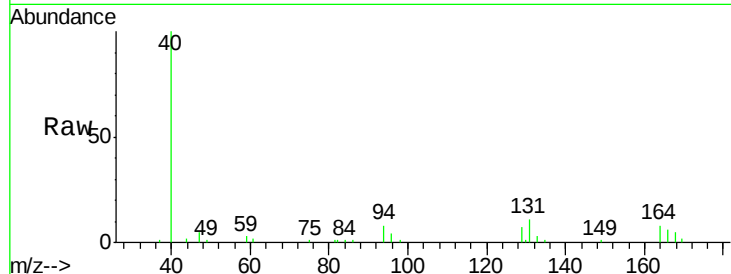




#52
Tetrachloroethene
Concen: 0.028 ppbv
RT: 11.36 min Scan# 2620
Delta R.T. -0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

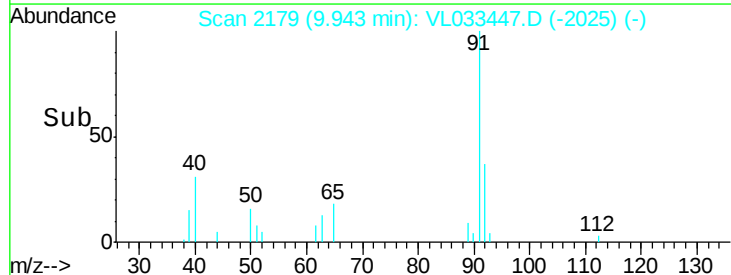
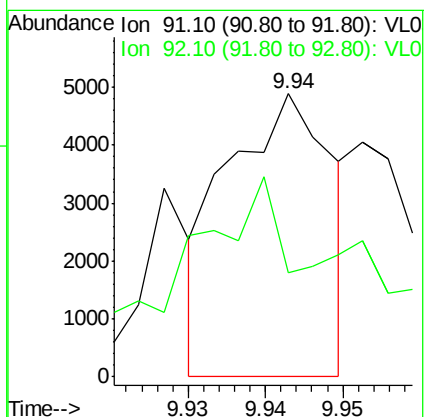
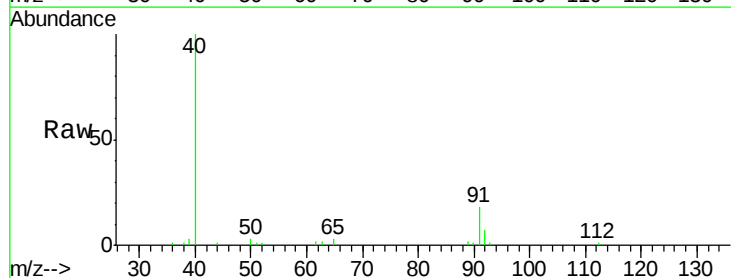
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

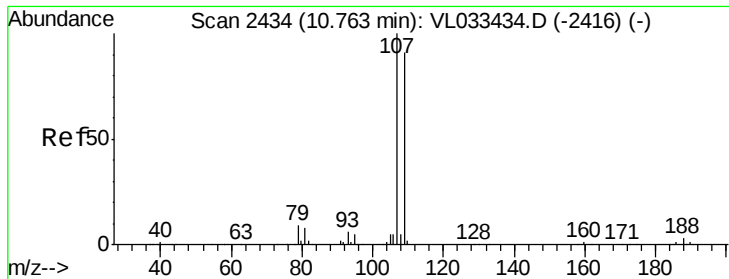
Tgt Ion:164 Resp: 1429
Ion Ratio Lower Upper
164 100
166 18.1 99.5 149.3#
129 61.8 81.4 122.2#
131 220.2 75.6 113.4#



#53
Toluene
Concen: 0.029 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 91 Resp: 4630
Ion Ratio Lower Upper
91 100
92 120.8 47.4 71.0#





#54

1,2-Dibromoethane

Concen: 0.036 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

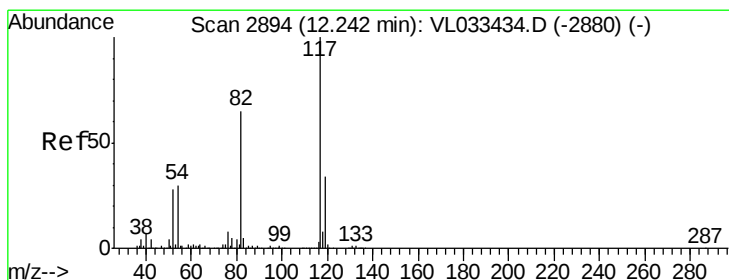
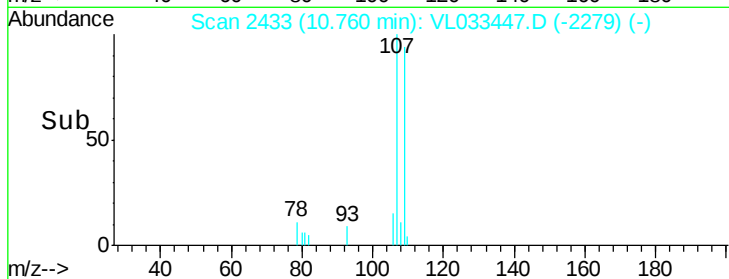
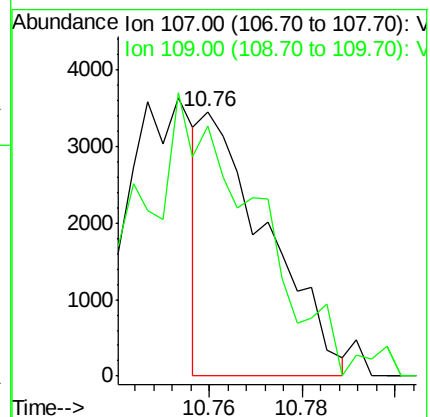
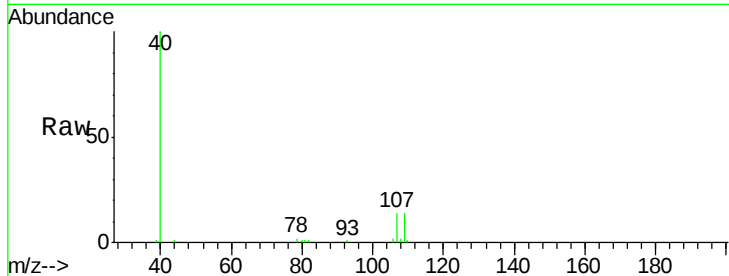
LOD-MDL-AIR-01-QT1-2019

Tgt Ion:107 Resp: 3389

Ion Ratio Lower Upper

107 100

109 101.5 72.7 109.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

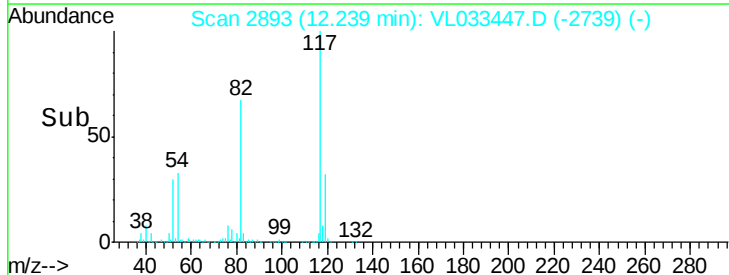
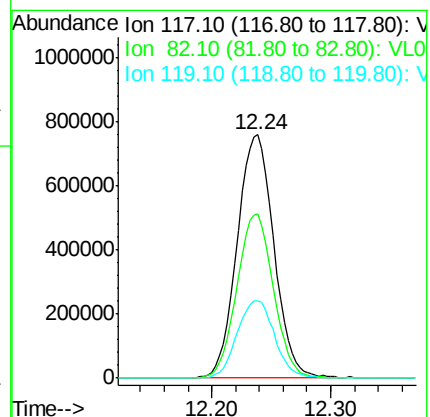
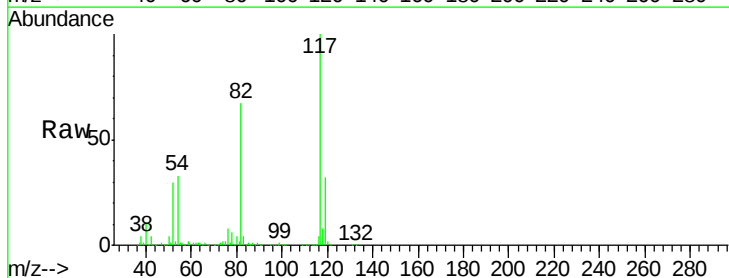
Tgt Ion:117 Resp: 1624450

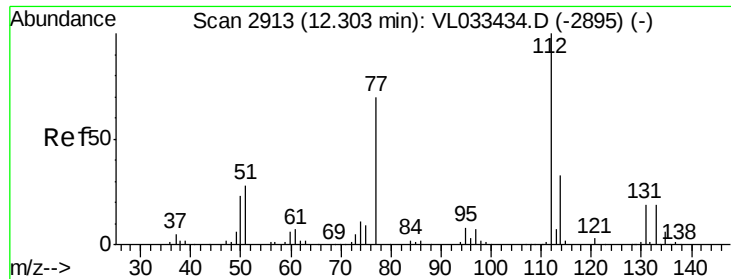
Ion Ratio Lower Upper

117 100

82 67.4 51.5 77.3

119 32.5 25.5 38.3

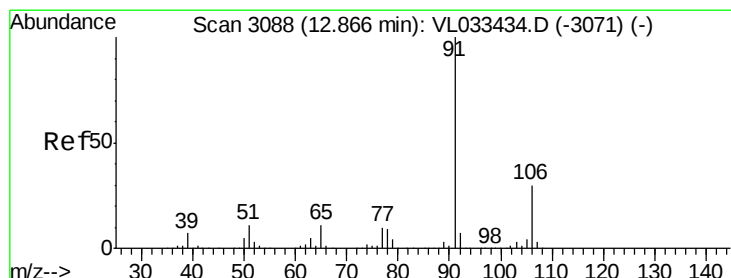
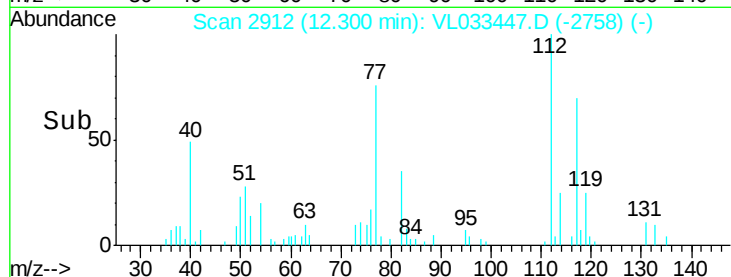
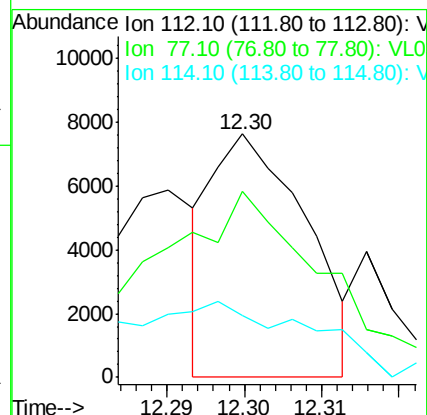
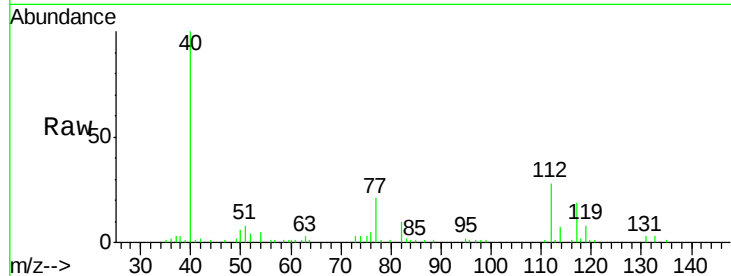




#57
Chlorobenzene
Concen: 0.051 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

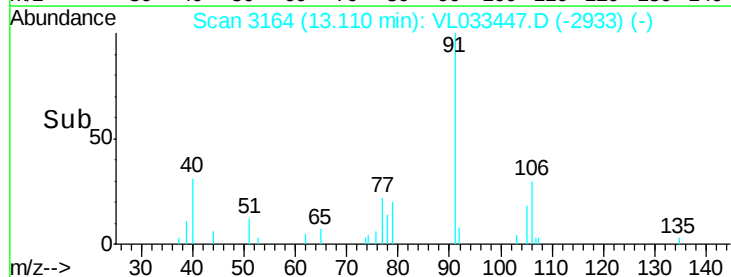
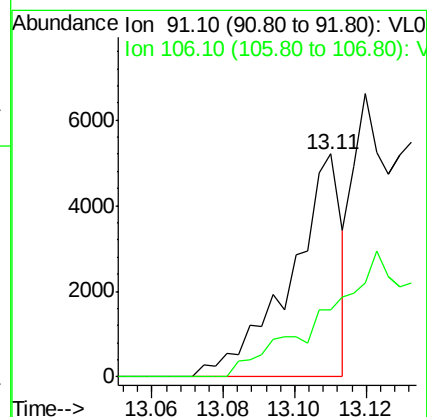
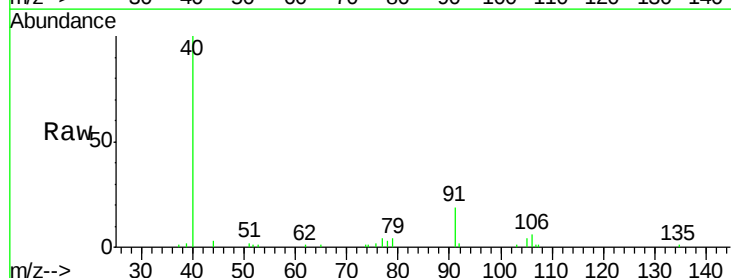
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

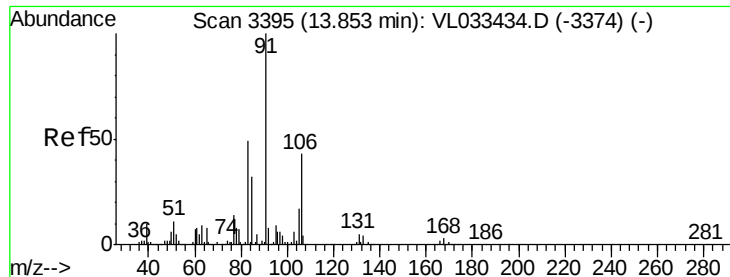
Tgt Ion: 112 Resp: 6436
Ion Ratio Lower Upper
112 100
77 45.6 57.3 85.9#
114 7.9 29.8 36.4#



#58
Ethyl Benzene
Concen: 0.024 ppbv
RT: 13.11 min Scan# 3164
Delta R.T. 0.24 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 91 Resp: 5146
Ion Ratio Lower Upper
91 100
106 33.2 23.8 35.6

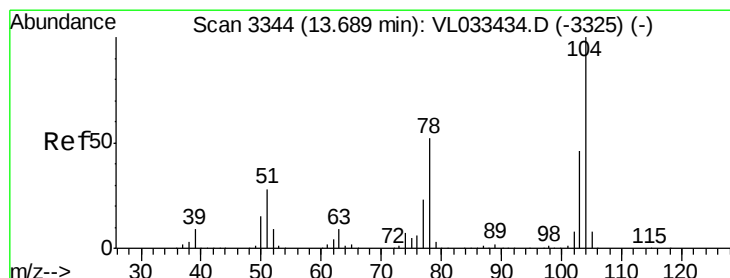
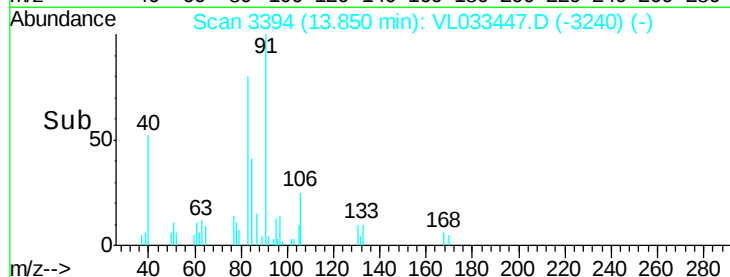
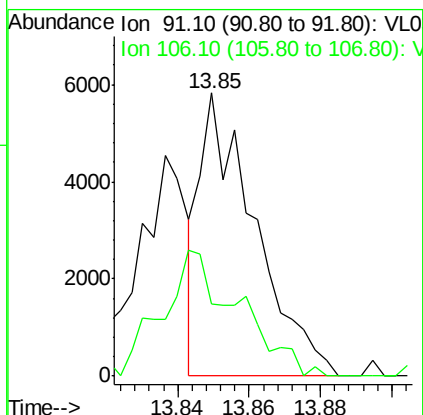
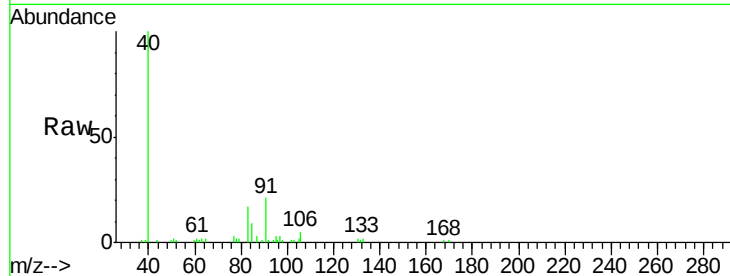




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

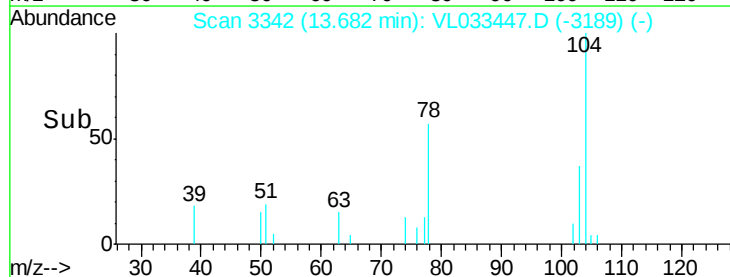
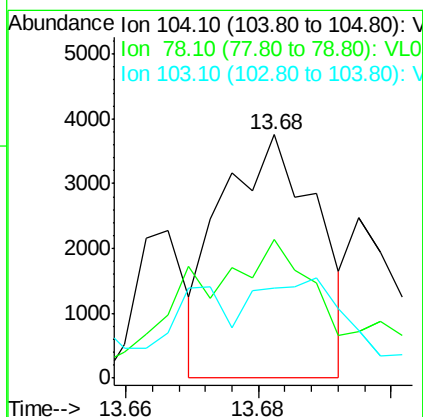
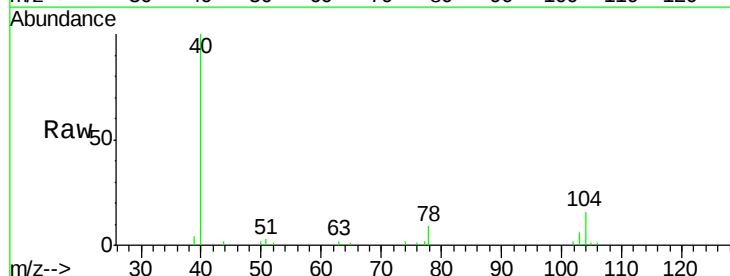
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

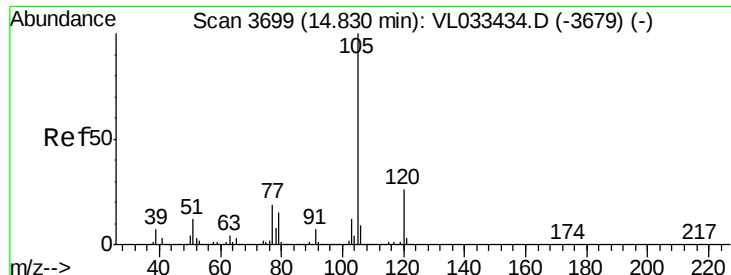
Tgt Ion: 91 Resp: 6188
Ion Ratio Lower Upper
91 100
106 66.8 21.4 64.3#



#61
Styrene
Concen: 0.029 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 104 Resp: 3772
Ion Ratio Lower Upper
104 100
78 97.9 43.2 64.8#
103 0.0 37.8 56.8#





#62

Isopropylbenzene

Concen: 0.021 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

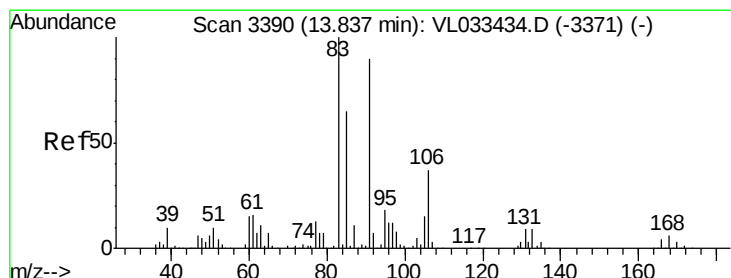
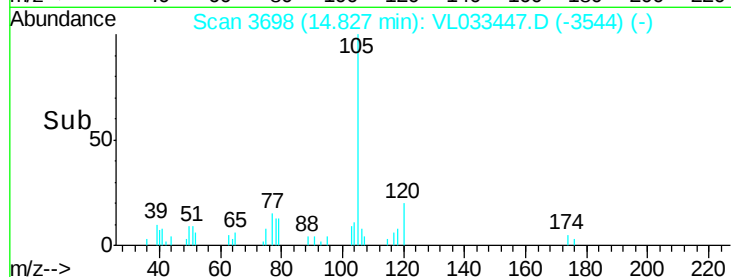
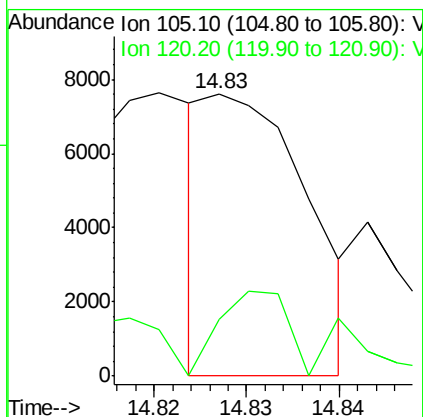
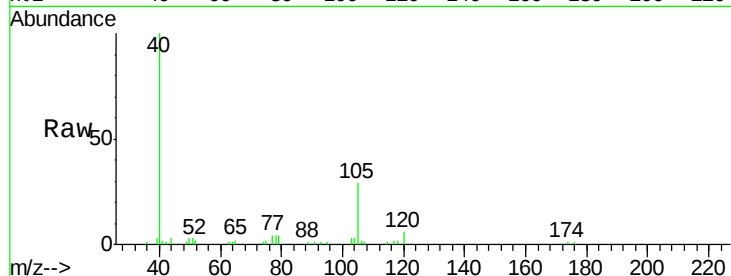
LOD-MDL-AIR-01-QT1-2019

Tgt Ion:105 Resp: 5700

Ion Ratio Lower Upper

105 100

120 56.4 20.2 30.2#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.064 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

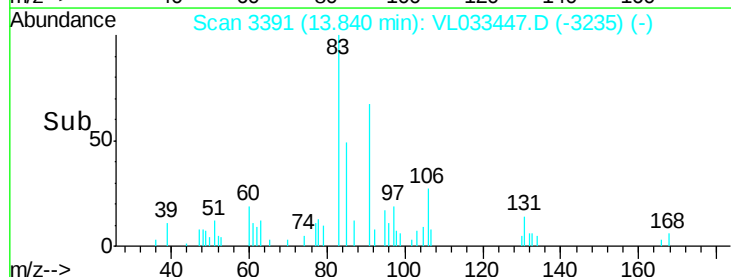
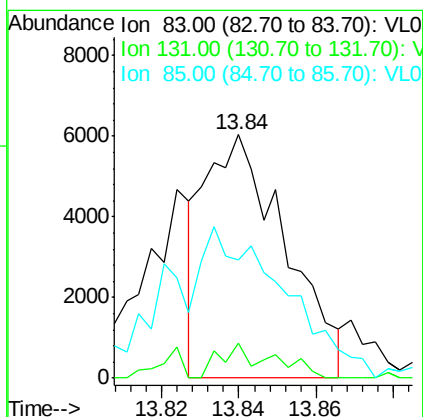
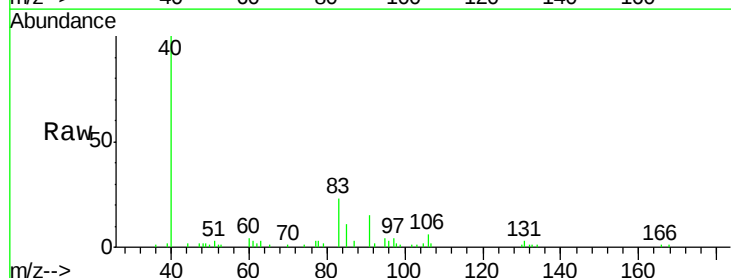
Tgt Ion: 83 Resp: 8765

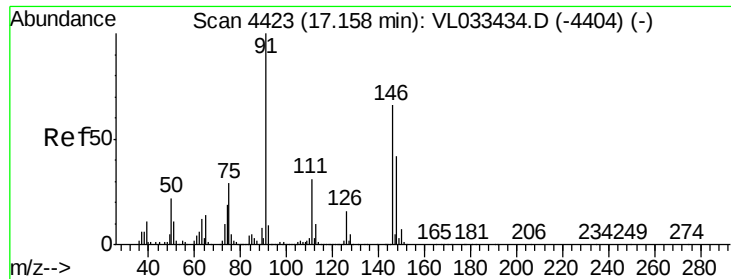
Ion Ratio Lower Upper

83 100

131 13.6 4.7 14.0

85 94.4 32.7 98.1

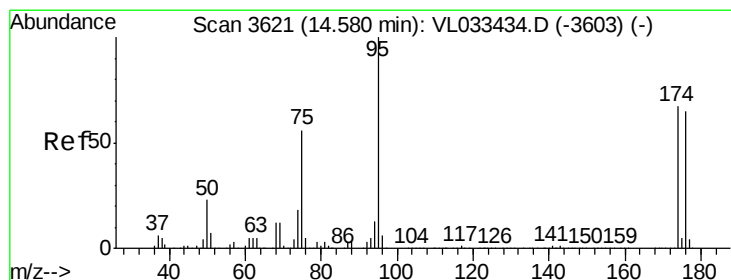
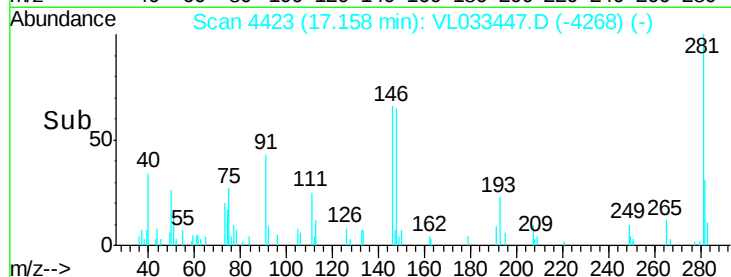
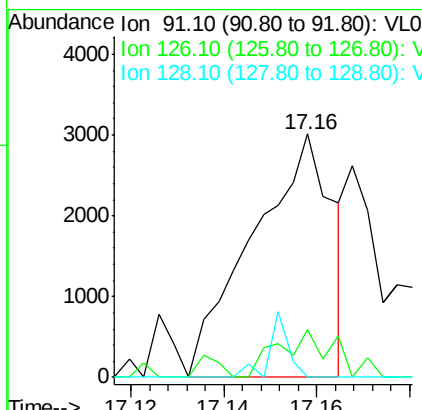
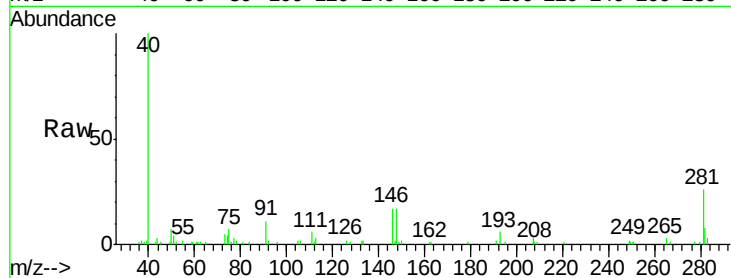




#66
Benzyl Chloride
Concen: 0.033 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

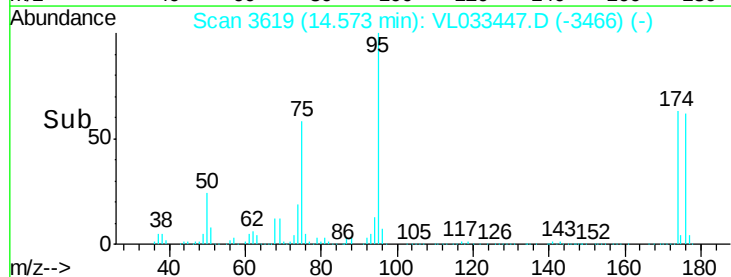
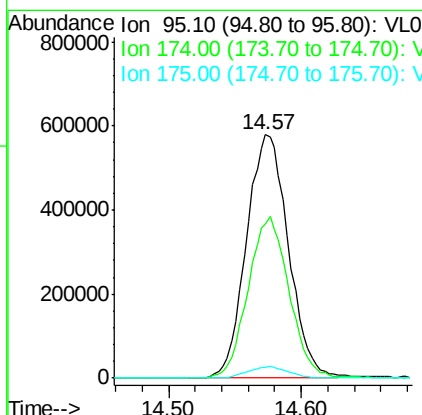
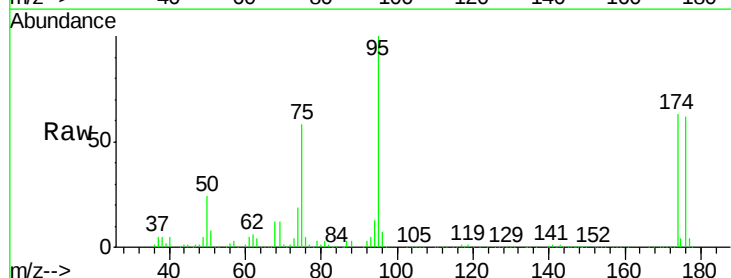
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

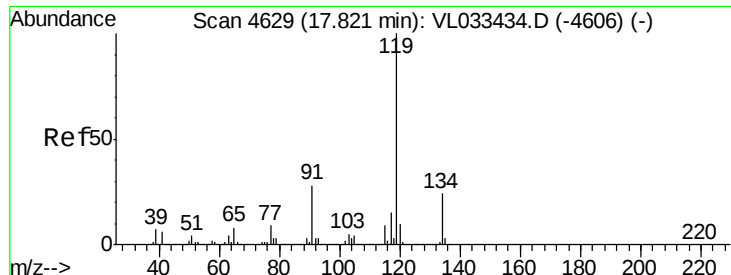
Tgt Ion: 91 Resp: 3602
Ion Ratio Lower Upper
91 100
126 17.4 13.0 19.6
128 6.3 4.2 6.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.976 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion: 95 Resp: 1270491
Ion Ratio Lower Upper
95 100
174 65.1 52.9 79.3
175 4.8 3.8 5.6

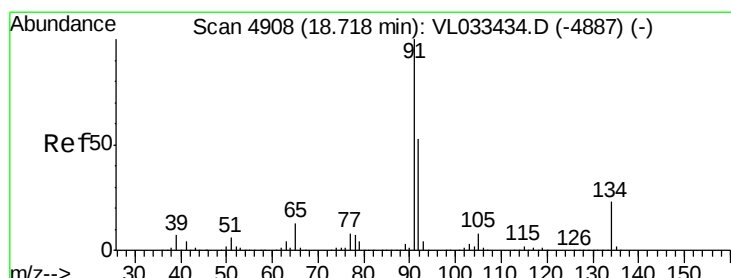
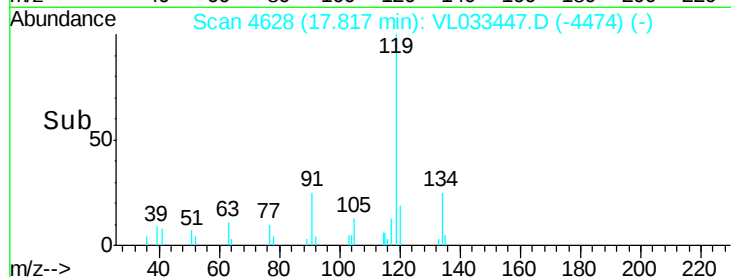
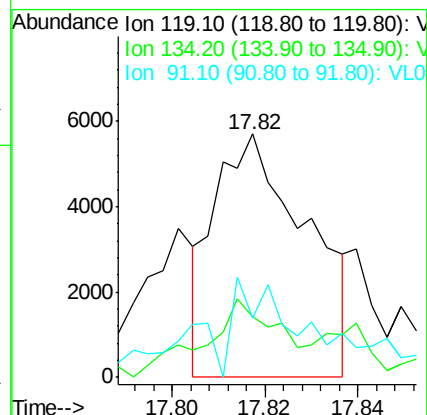
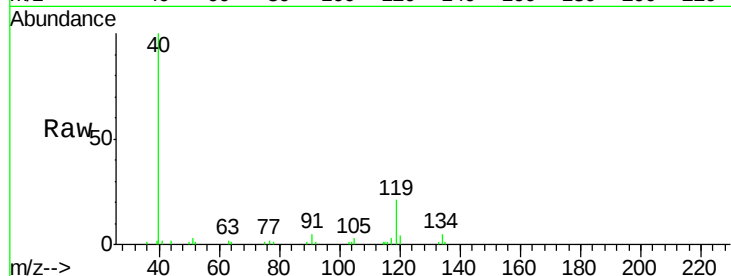




#69
p-Isopropyltoluene
Concen: 0.029 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

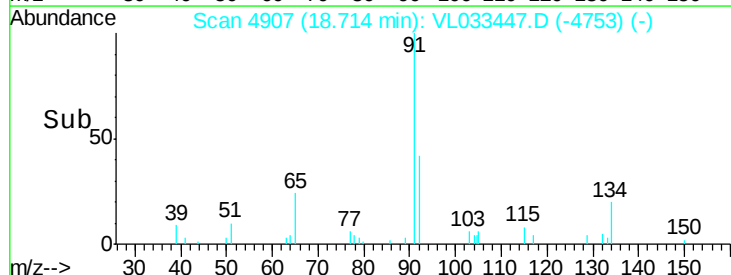
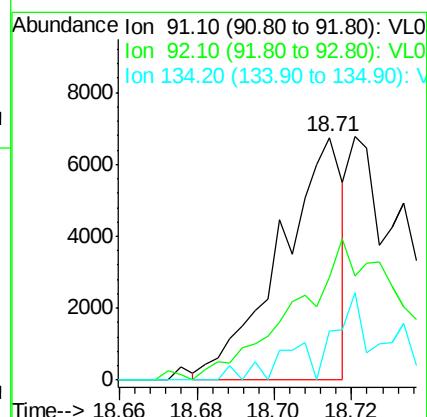
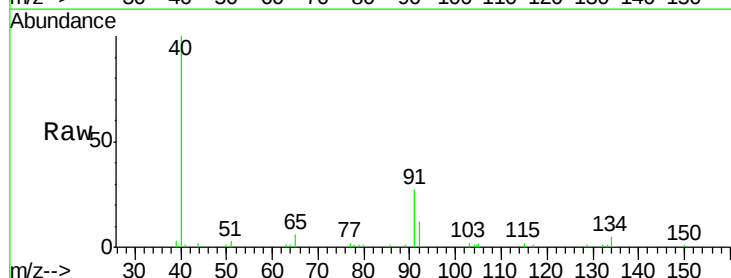
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT1-2019

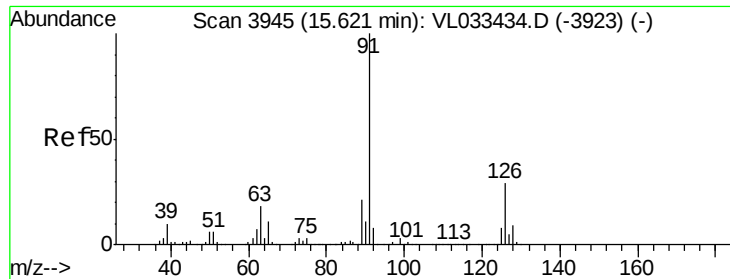
Tgt Ion	Ratio	Lower	Upper
119	100		
134	42.8	19.9	29.9#
91	55.2	23.4	35.0#



#70
n-Butylbenzene
Concen: 0.026 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033447.D
Acq: 25 Mar 2019 22:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	105.3	42.6	64.0#
134	0.0	17.5	26.3#

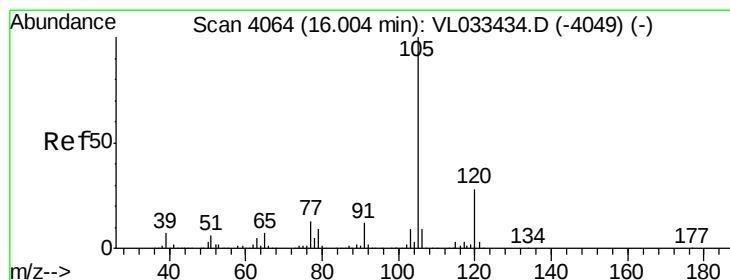
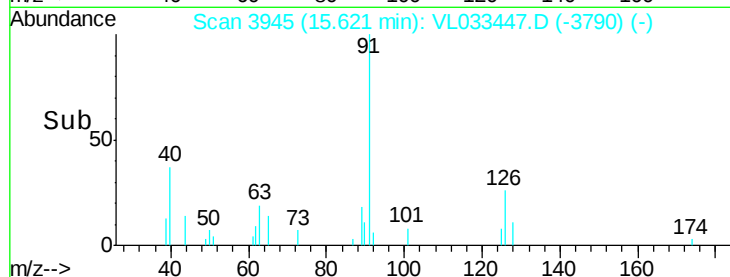
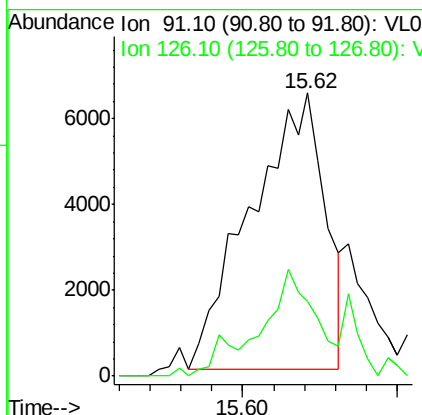
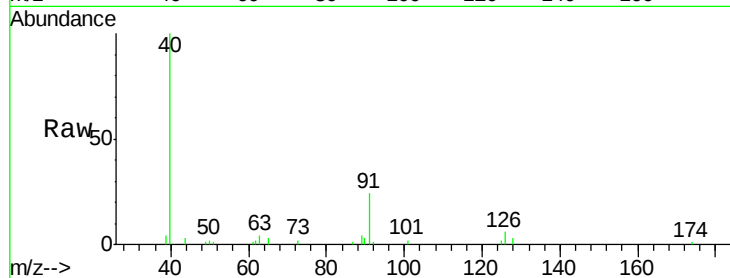




#71
 2-Chlorotoluene
 Concen: 0.053 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. -0.00 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

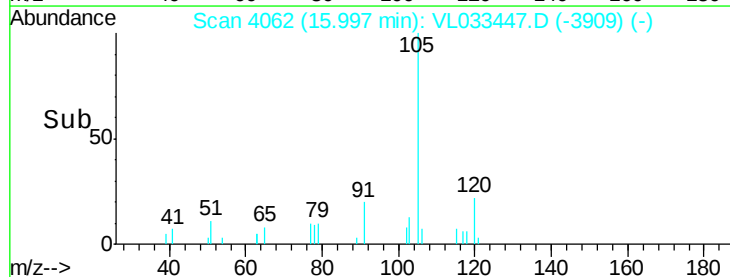
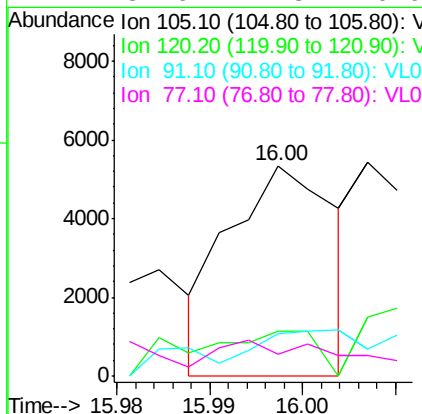
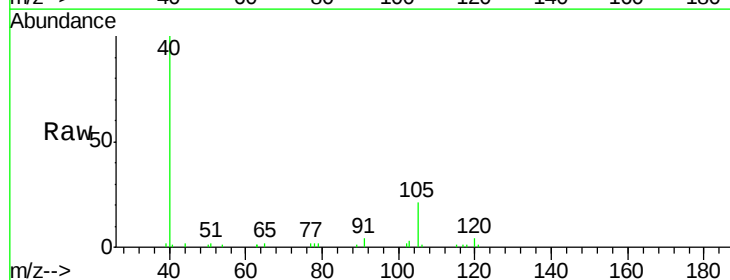
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

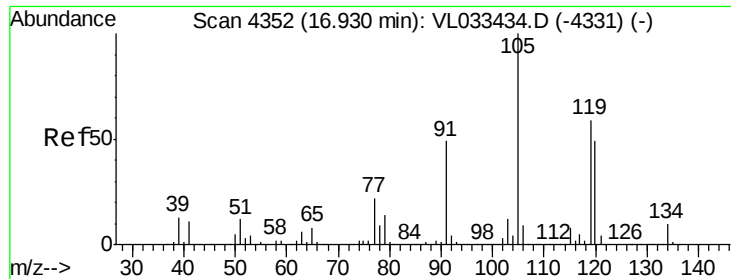
Tgt Ion: 91 Resp: 10770
 Ion Ratio Lower Upper
 91 100
 126 36.8 11.7 46.9



#72
 4-Ethyltoluene
 Concen: 0.020 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Tgt Ion: 105 Resp: 4235
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.2 34.8#
 91 0.0 10.4 15.6#
 77 37.6 11.3 16.9#

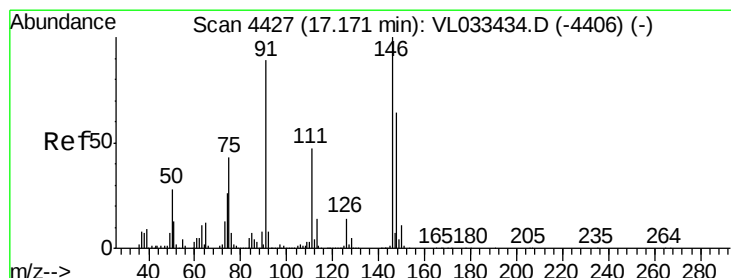
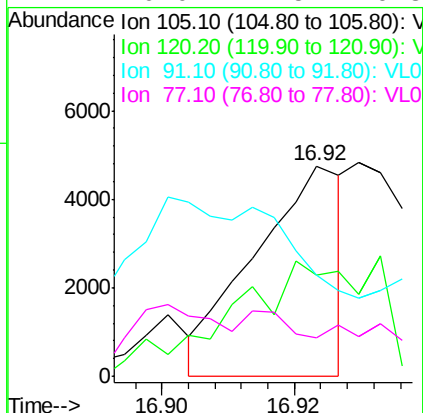
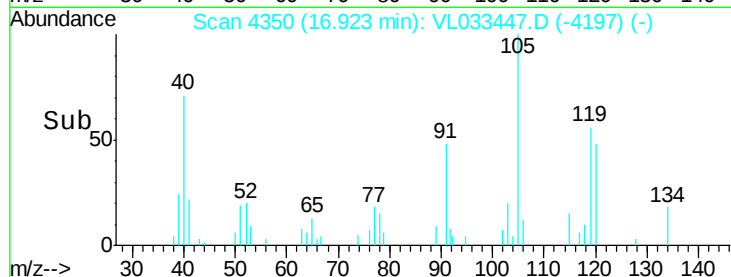
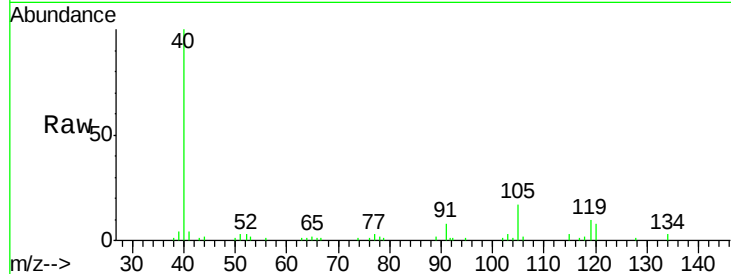




#74
 1,2,4-Trimethylbenzene
 Concen: 0.020 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

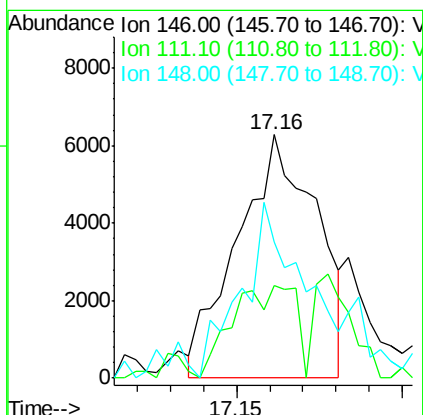
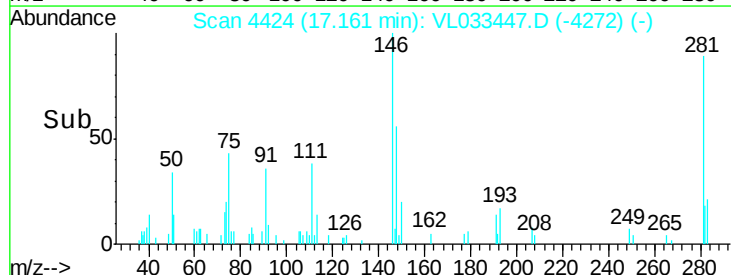
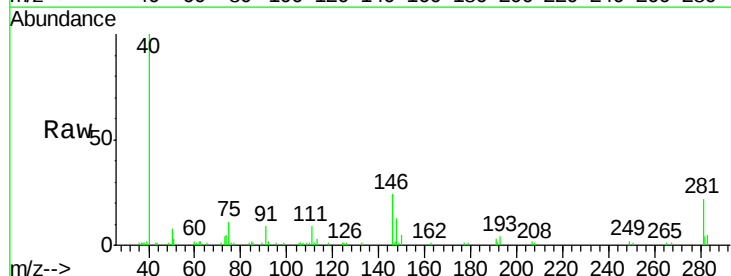
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

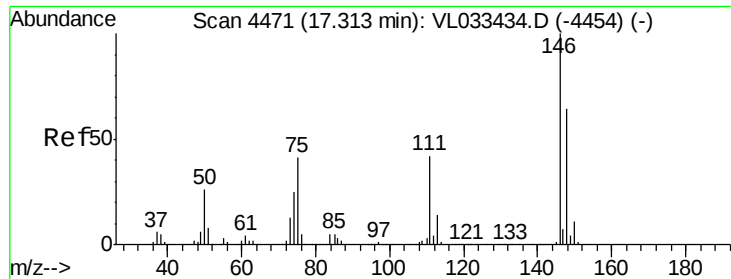
Tgt Ion:105 Resp: 4403
 Ion Ratio Lower Upper
 105 100
 120 35.7 39.0 58.6#
 91 19.0 40.0 60.0#
 77 0.0 17.5 26.3#



#75
 1,3-Dichlorobenzene
 Concen: 0.078 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.01 min
 Lab File: VL033447.D
 Acq: 25 Mar 2019 22:06

Tgt Ion:146 Resp: 10464
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.9 68.8#
 148 76.6 32.0 96.2





#76

1,4-Dichlorobenzene

Concen: 0.075 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT1-2019

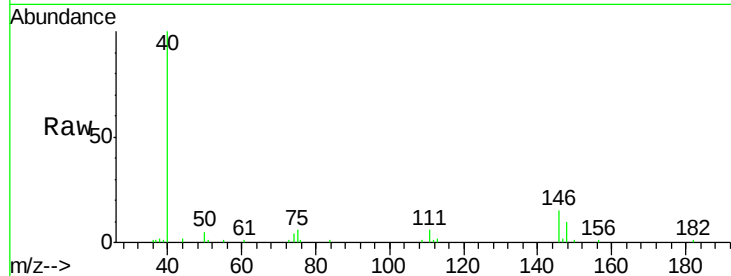
Tgt Ion:146 Resp: 9789

Ion Ratio Lower Upper

146 100

111 51.2 21.7 65.1

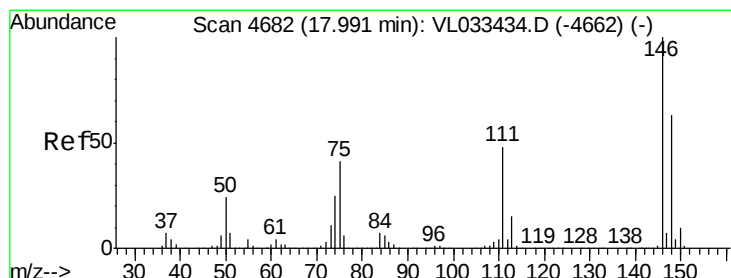
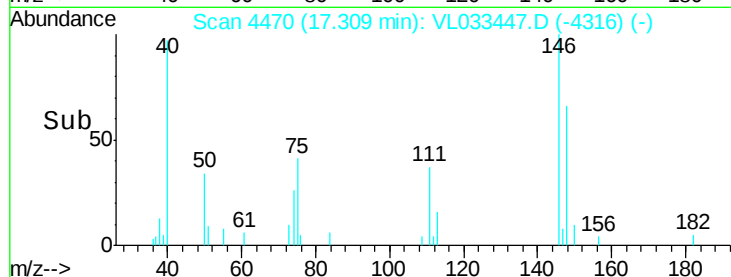
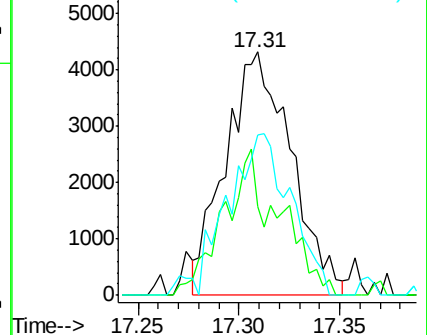
148 65.1 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.034 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.01 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

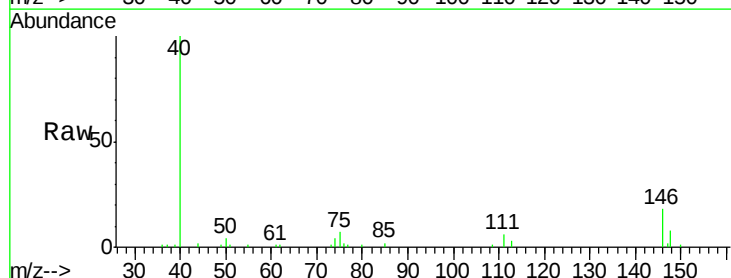
Tgt Ion:146 Resp: 4297

Ion Ratio Lower Upper

146 100

111 0.0 23.5 70.5#

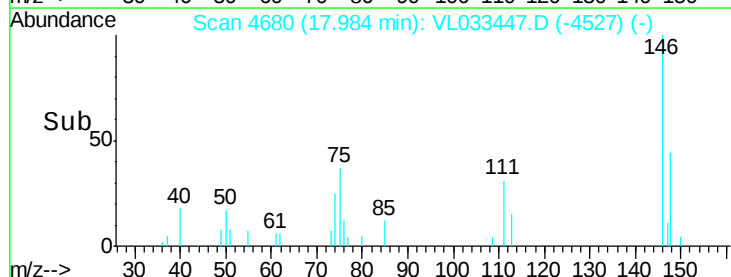
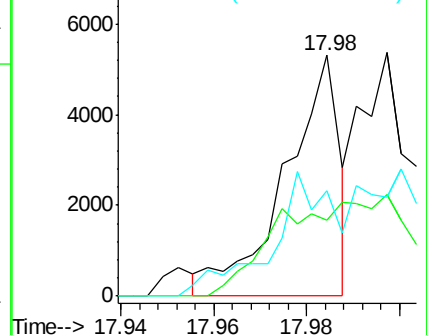
148 0.0 32.0 96.0#

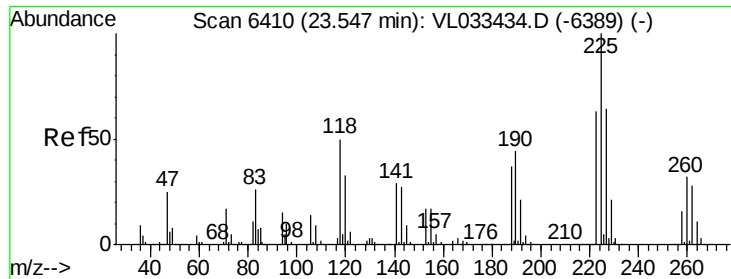


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.023 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033447.D

Acq: 25 Mar 2019 22:06

Instrument :

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ClientSampleId :

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Tgt Ion:225 Resp: 1964

Ion Ratio Lower Upper

225 100

223 306.1 50.0 75.0#

227 0.0 51.1 76.7#

