

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
 Data File : VL033681.D
 Acq On : 7 May 2019 14:17
 Operator : SY/AP
 Sample : K2241-13 0.1PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Quant Time: May 08 03:36:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	887857	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2056432	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2061979	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1695254	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	27217	0.131 ppbv	92
3) Chlorodifluoromethane	3.01	51	16191m	0.126 ppbv	
4) Chloromethane	3.17	50	8977	0.135 ppbv	97
5) Vinyl Chloride	3.29	62	7691	0.119 ppbv	94
6) Bromomethane	3.52	94	4921	0.120 ppbv #	80
7) Chloroethane	3.59	64	3121m	0.133 ppbv	
8) Dichlorotetrafluoroethane	3.22	85	21981	0.128 ppbv	99
9) Propene	3.03	41	6447m	0.132 ppbv	
10) Heptane	8.25	43	8211m	0.068 ppbv	
11) Trichlorofluoromethane	4.01	101	25237	0.130 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.55	101	16804m	0.129 ppbv	
13) Ethanol	3.67	45	2725m	0.186 ppbv	
14) Bromoethene	3.79	108	6107m	0.119 ppbv	
15) Acetone	3.92	43	22183	0.168 ppbv #	89
16) 1,3-Butadiene	3.36	39	6398	0.113 ppbv	96
17) tert-Butyl alcohol	4.39	59	13968m	0.139 ppbv	
18) 1,1-Dichloroethene	4.35	96	7369m	0.131 ppbv	
19) Isopropyl Alcohol	4.05	45	12835m	0.158 ppbv	
20) Methylene Chloride	4.41	84	9593m	0.191 ppbv	
21) Allyl Chloride	4.47	41	9714m	0.121 ppbv	
22) trans-1,2-Dichloroethene	4.96	96	6898m	0.122 ppbv	
23) Vinyl Acetate	5.16	43	15215	0.089 ppbv #	95
24) 1,1-Dichloroethane	5.08	63	14278	0.110 ppbv #	94
25) Ethyl Acetate	5.78	43	23453	0.109 ppbv #	94
26) Hexane	5.78	57	10018m	0.108 ppbv	
27) Carbon Disulfide	4.62	76	13032	0.103 ppbv #	71
28) Methyl tert-Butyl Ether	5.14	73	14286	0.092 ppbv #	85
29) Chloroform	5.84	83	20256	0.122 ppbv	84
30) Cyclohexane	7.25	84	3558m	0.046 ppbv	
31) cis-1,2-Dichloroethene	5.63	61	9474m	0.103 ppbv	
32) 1,1,1-Trichloroethane	6.61	97	19628	0.114 ppbv	98
34) 2-Butanone	5.35	43	13374m	0.102 ppbv	
35) Carbon Tetrachloride	7.12	117	20719m	0.123 ppbv	
36) Benzene	7.00	78	18197m	0.099 ppbv	
37) 1,2-Dichloroethane	6.41	62	14838m	0.115 ppbv	
38) Trichloroethene	7.95	130	7788m	0.115 ppbv	
39) 1,2-Dichloropropane	7.73	63	8550m	0.124 ppbv	
40) 1,4-Dioxane	8.01	88	1693m	0.062 ppbv	
41) Tetrahydrofuran	6.18	42	5072m	0.075 ppbv	
42) Bromodichloromethane	7.90	83	19281m	0.116 ppbv	
43) Methyl Methacrylate	8.15	69	5508m	0.079 ppbv	

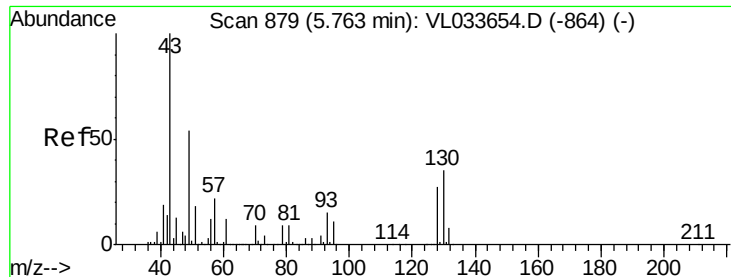
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	23021m	0.073	ppbv	
45) t-1,3-Dichloropropene	9.41	75	6738m	0.079	ppbv	
46) cis-1,3-Dichloropropene	8.84	75	7818m	0.074	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	8260m	0.105	ppbv	
48) Dibromochloromethane	10.44	129	12110m	0.091	ppbv	
49) Bromoform	13.19	173	9110m	0.078	ppbv	
50) 4-Methyl-2-Pentanone	8.90	43	17086m	0.086	ppbv	
51) 2-Hexanone	10.30	43	9764m	0.063	ppbv	
52) Tetrachloroethene	11.37	164	6935m	0.106	ppbv	
53) Toluene	9.94	91	14063m	0.071	ppbv	
54) 1,2-Dibromoethane	10.76	107	11120m	0.094	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	12742m	0.134	ppbv	
57) Chlorobenzene	12.29	112	19987	0.118	ppbv	# 80
58) Ethyl Benzene	12.85	91	19557m	0.073	ppbv	
59) m/p-Xylene	13.15	91	31070m	0.131	ppbv	
60) o-Xylene	13.84	91	14542m	0.061	ppbv	
61) Styrene	13.68	104	8484m	0.053	ppbv	
62) Isopropylbenzene	14.82	105	22283	0.068	ppbv	93
63) 1,1,2,2-Tetrachloroethane	13.83	83	20438m	0.117	ppbv	
64) n-propylbenzene	15.71	120	4695m	0.056	ppbv	
65) tert-Butylbenzene	16.92	119	14449m	0.048	ppbv	
66) Benzyl Chloride	17.16	91	12514m	0.092	ppbv	
67) sec-Butylbenzene	17.46	105	26868m	0.064	ppbv	
69) p-Isopropyltoluene	17.81	119	18907m	0.055	ppbv	
70) n-Butylbenzene	18.71	91	23837m	0.065	ppbv	
71) 2-Chlorotoluene	15.61	91	17066m	0.071	ppbv	
72) 4-Ethyltoluene	15.99	105	16857m	0.060	ppbv	
73) 1,3,5-Trimethylbenzene	16.15	105	15289m	0.056	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	15880	0.052	ppbv	# 82
75) 1,3-Dichlorobenzene	17.16	146	24686m	0.135	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	18347m	0.106	ppbv	
77) 1,2-Dichlorobenzene	17.98	146	15635m	0.092	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	18507m	0.138	ppbv	
79) Naphthalene	22.42	128	18629m	0.067	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	5691	0.054	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	14562m	0.091	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

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ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

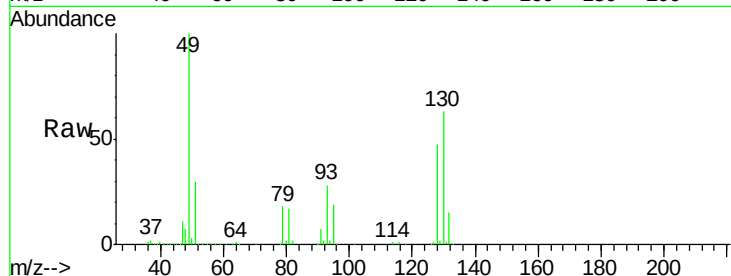
Tot Ion: 49 Resp: 887857

Ion Ratio Lower Upper

49 100

128 49.4 24.8 74.3

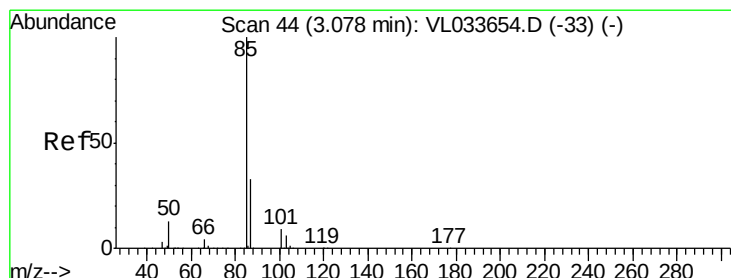
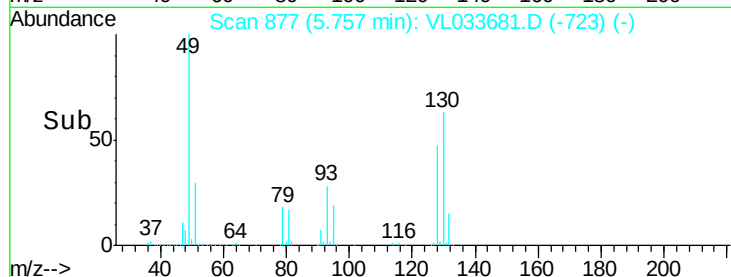
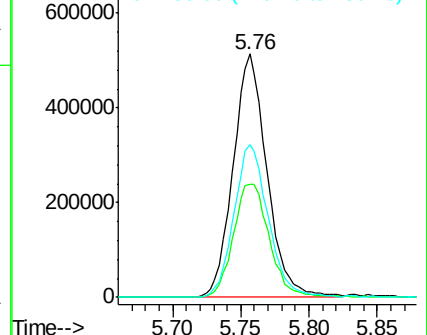
130 63.4 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.131 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033681.D

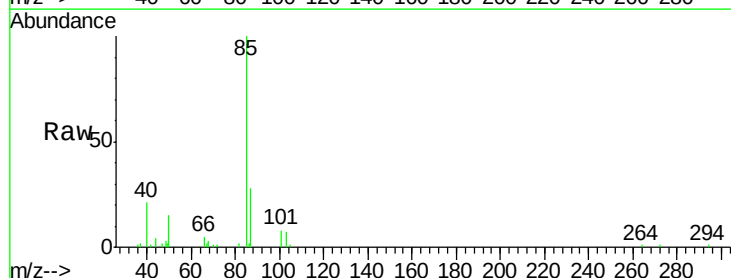
Acq: 7 May 2019 14:17

Tgt Ion: 85 Resp: 27217

Ion Ratio Lower Upper

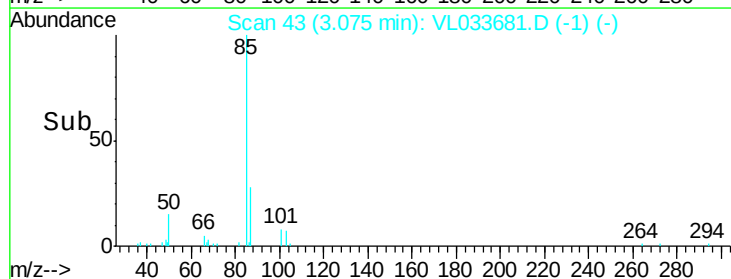
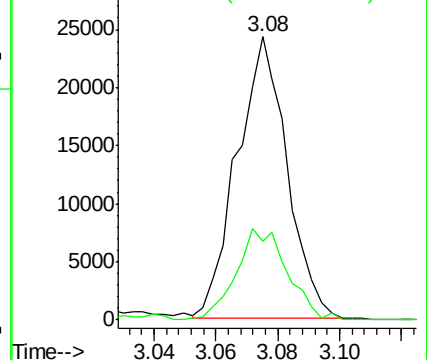
85 100

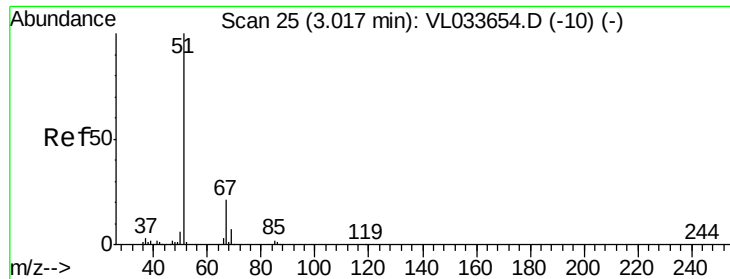
87 27.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

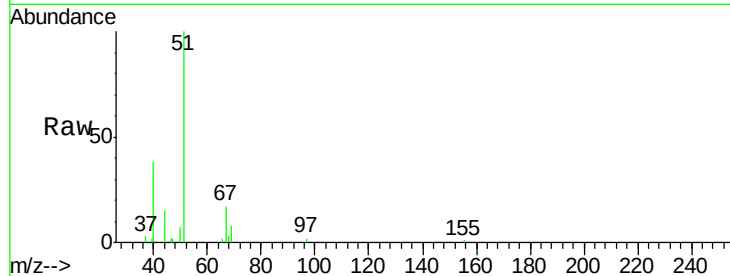
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 51 Resp: 16191

Ion Ratio Lower Upper

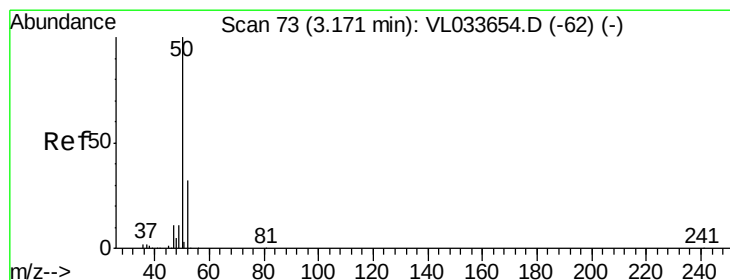
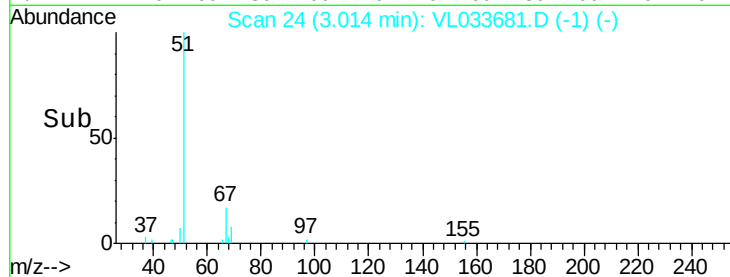
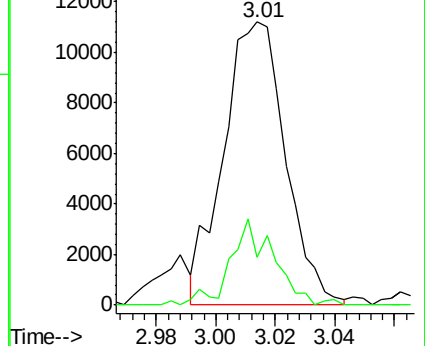
51 100

67 21.4 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: 0.135 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033681.D

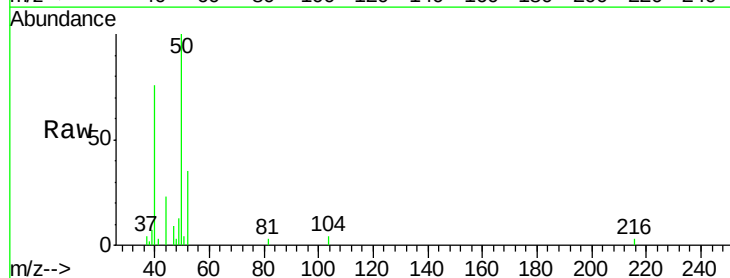
Acq: 7 May 2019 14:17

Tgt Ion: 50 Resp: 8977

Ion Ratio Lower Upper

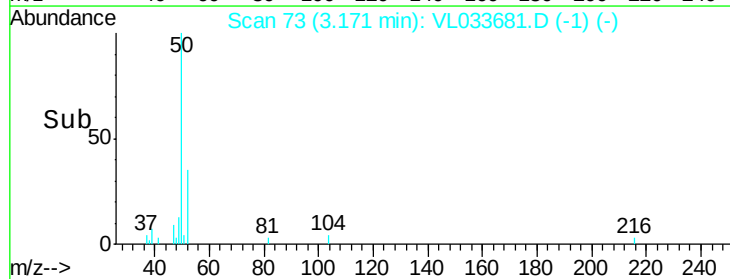
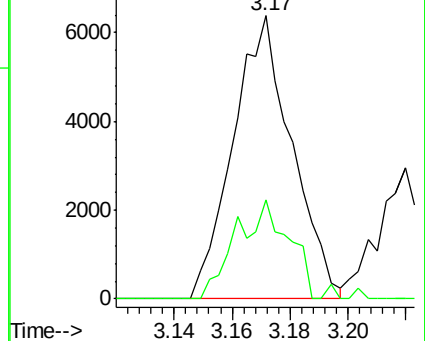
50 100

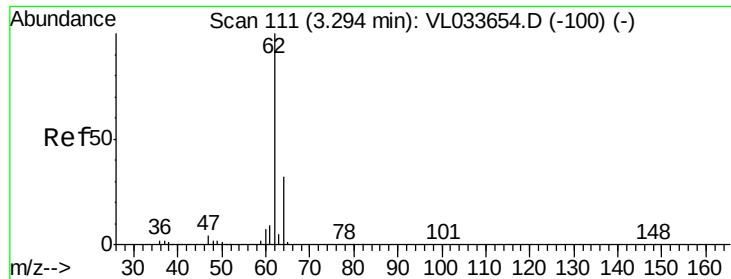
52 33.9 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.119 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

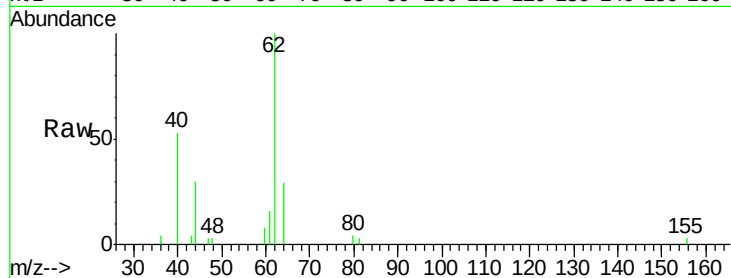
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 62 Resp: 7691

Ion Ratio Lower Upper

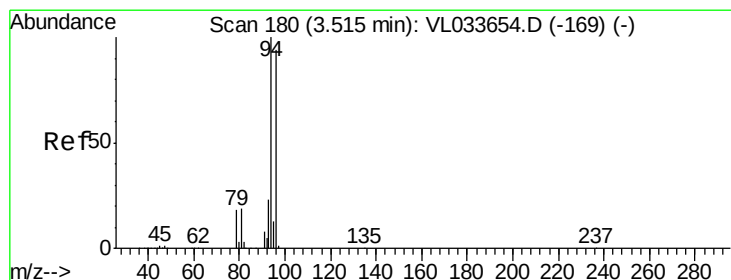
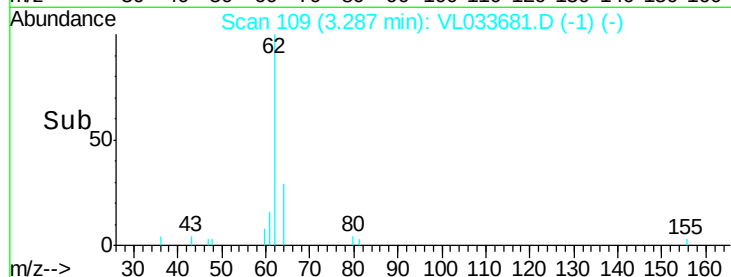
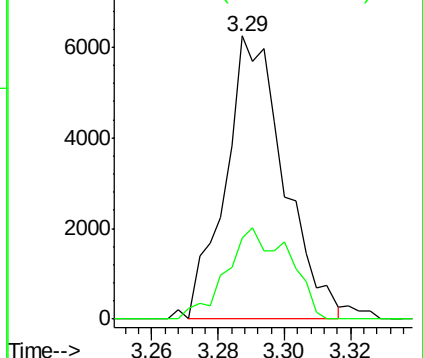
62 100

64 28.7 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.120 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL033681.D

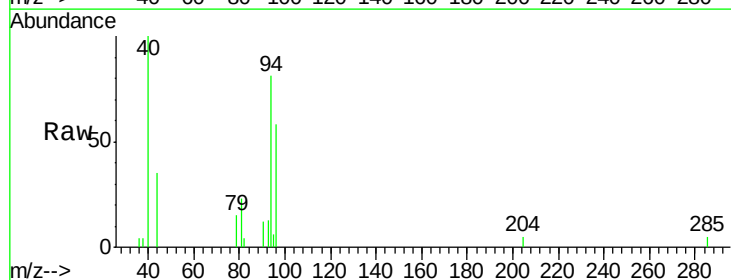
Acq: 7 May 2019 14:17

Tgt Ion: 94 Resp: 4921

Ion Ratio Lower Upper

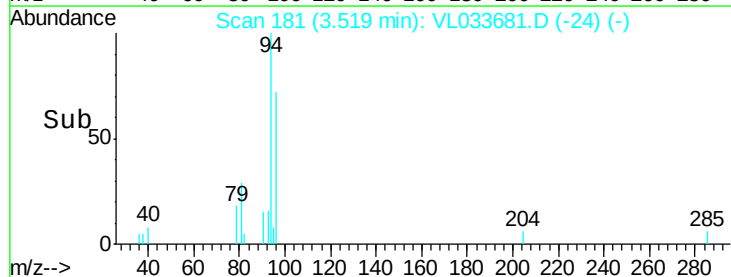
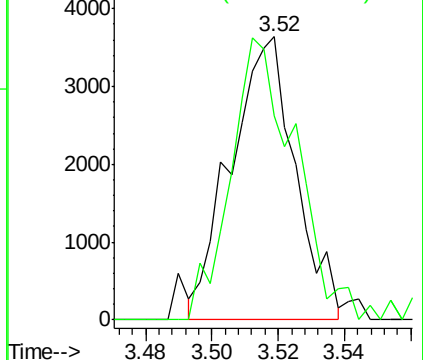
94 100

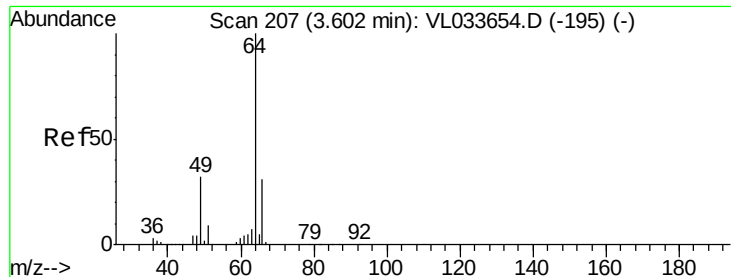
96 75.1 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.133 ppbv m

RT: 3.59 min Scan# 204

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

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ClientSampleId :

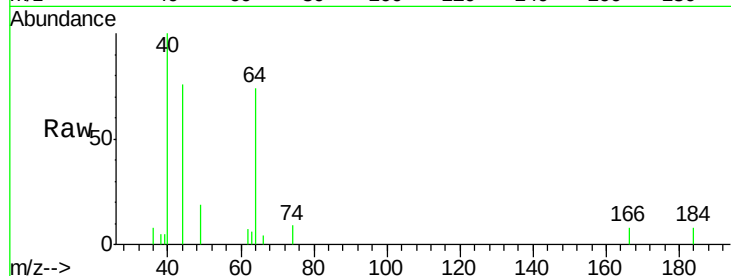
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 64 Resp: 3121

Ion Ratio Lower Upper

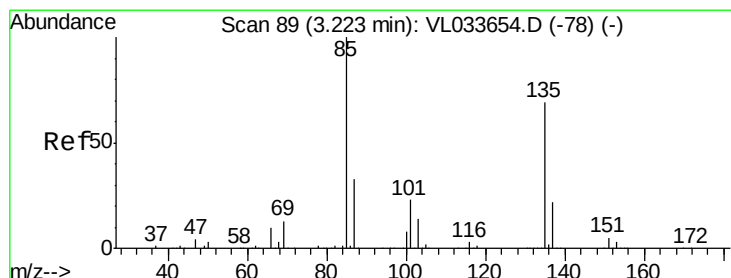
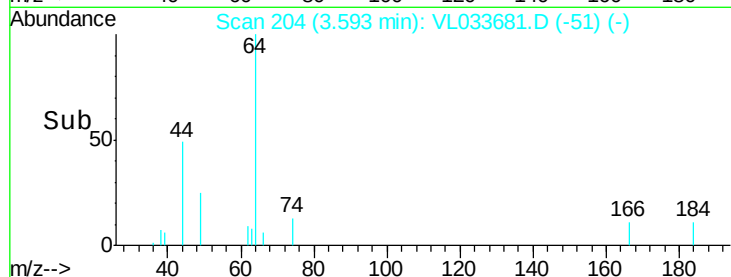
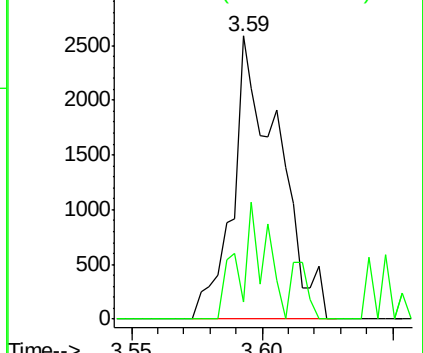
64 100

66 5.8 25.1 37.7#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.128 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033681.D

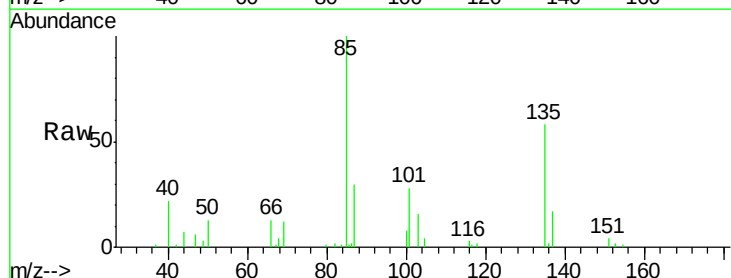
Acq: 7 May 2019 14:17

Tgt Ion: 85 Resp: 21981

Ion Ratio Lower Upper

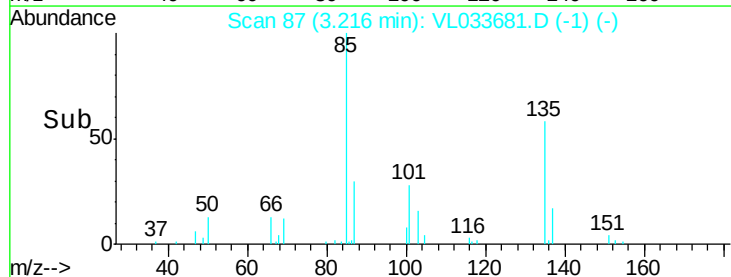
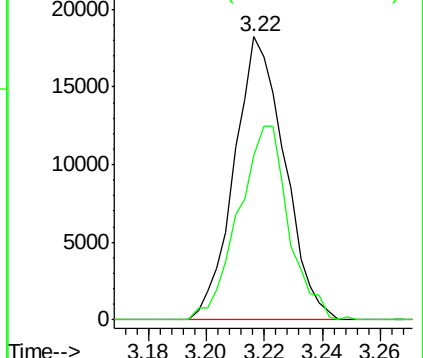
85 100

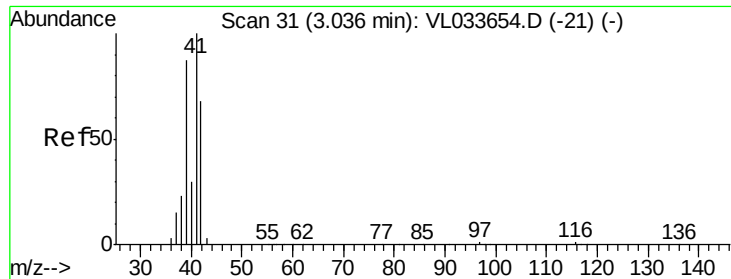
135 68.5 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.132 ppbv m

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

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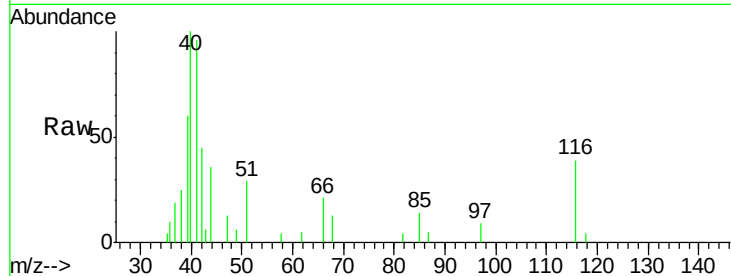
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 41 Resp: 6447

Ion Ratio Lower Upper

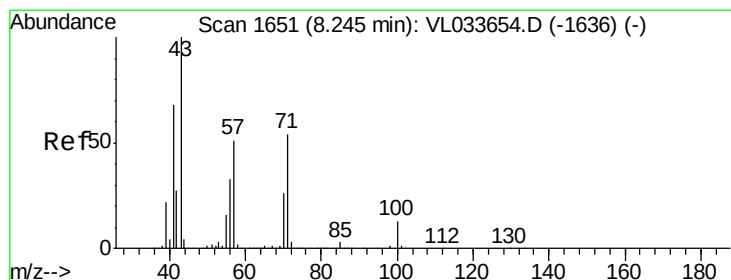
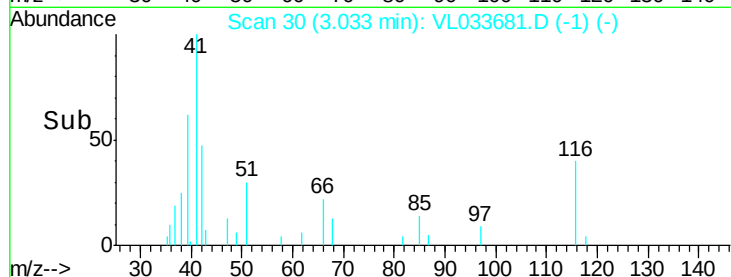
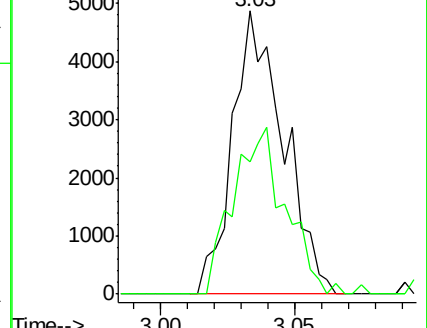
41 100

42 60.7 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.068 ppbv m

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033681.D

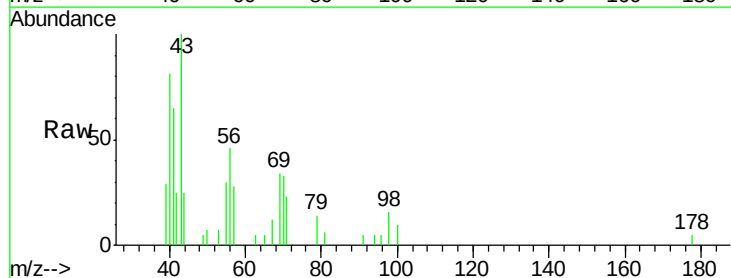
Acq: 7 May 2019 14:17

Tgt Ion: 43 Resp: 8211

Ion Ratio Lower Upper

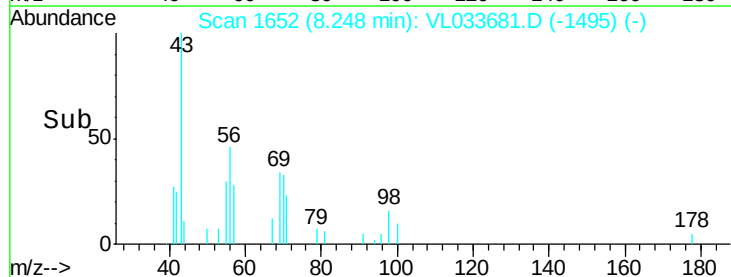
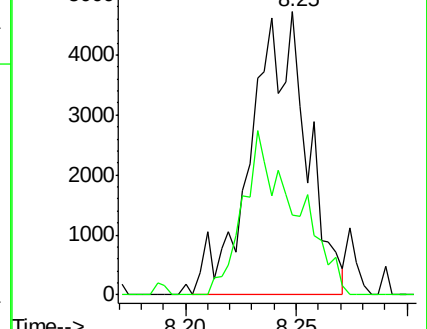
43 100

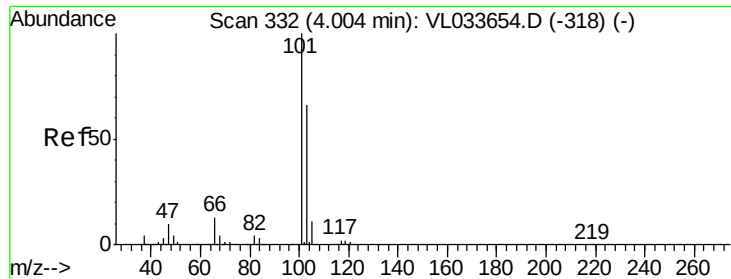
57 55.5 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

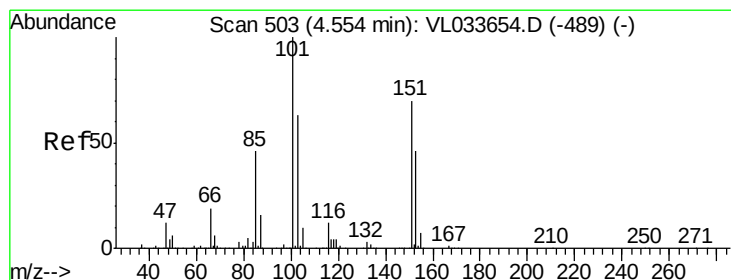
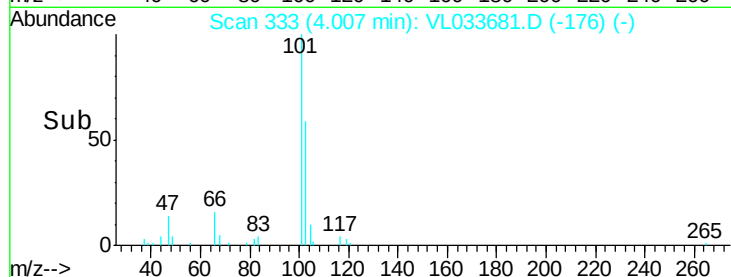
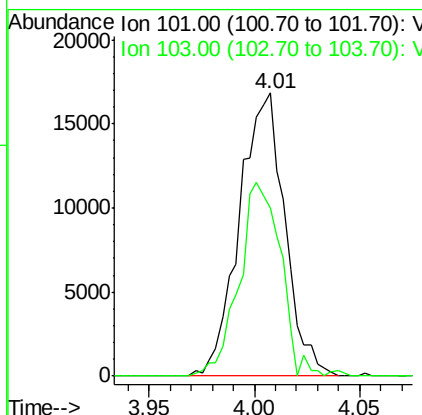
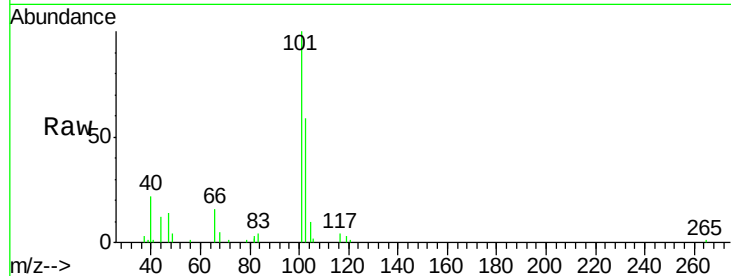




#11
 Trichlorofluoromethane
 Concen: 0.130 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

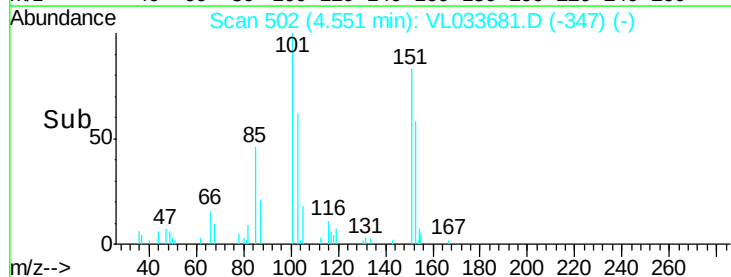
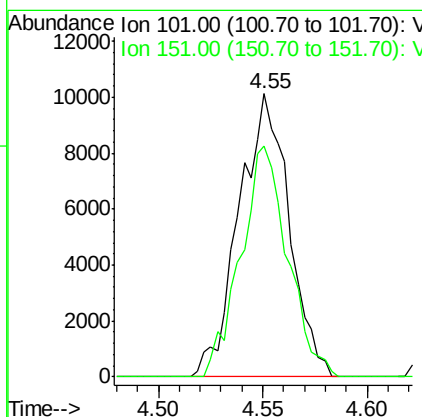
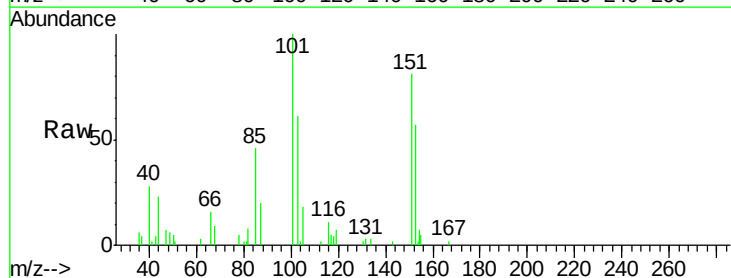
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

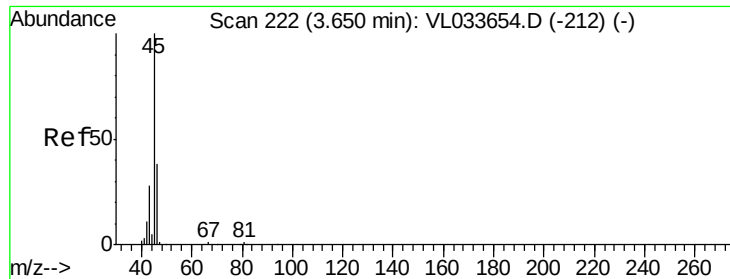
Tot Ion:101 Resp: 25237
 Ion Ratio Lower Upper
 101 100
 103 59.4 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.129 ppbv m
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion:101 Resp: 16804
 Ion Ratio Lower Upper
 101 100
 151 76.7 58.0 87.0





#13

Ethanol

Concen: 0.186 ppbv m

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

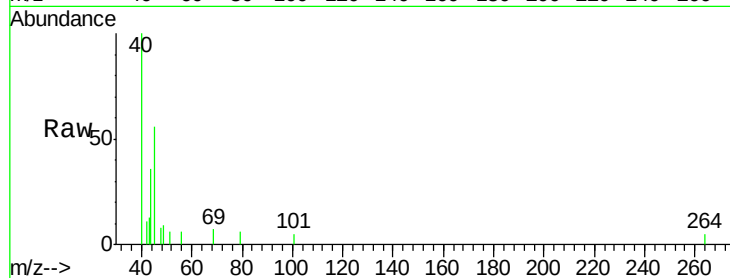
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 45 Resp: 2725

Ion Ratio Lower Upper

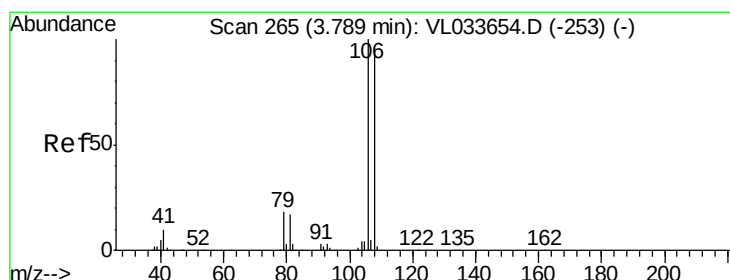
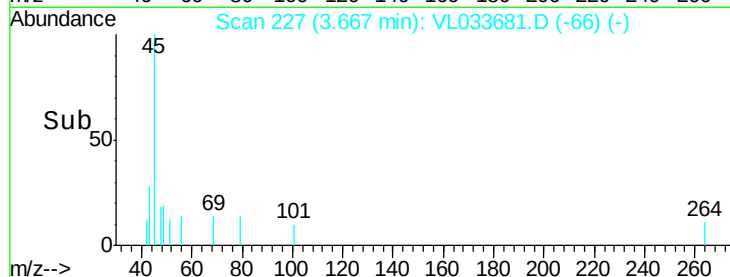
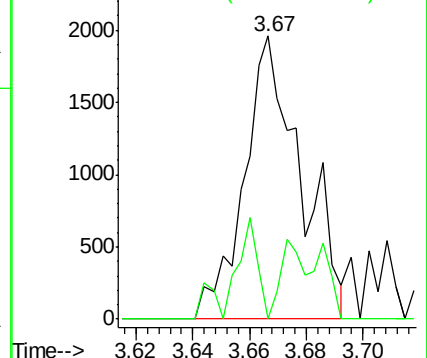
45 100

46 15.6 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.119 ppbv m

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

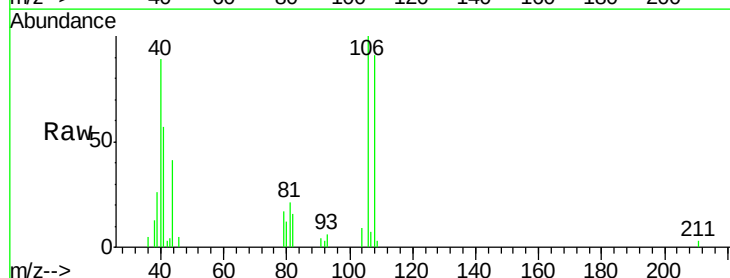
Tgt Ion: 108 Resp: 6107

Ion Ratio Lower Upper

108 100

106 116.7 85.7 128.5

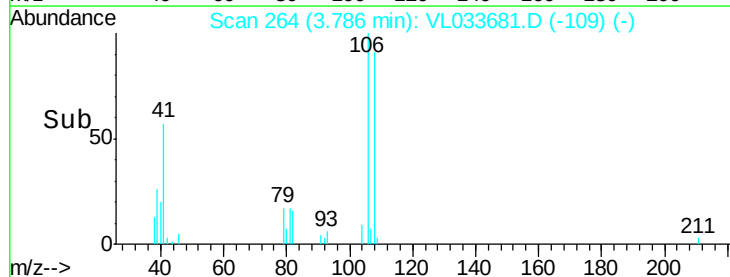
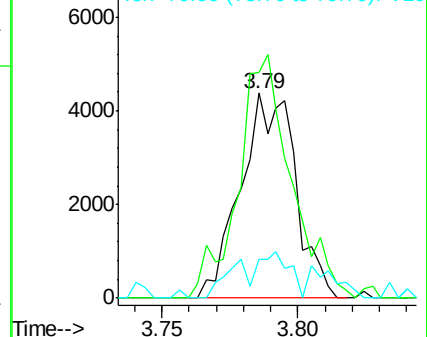
79 29.1 15.2 22.8#

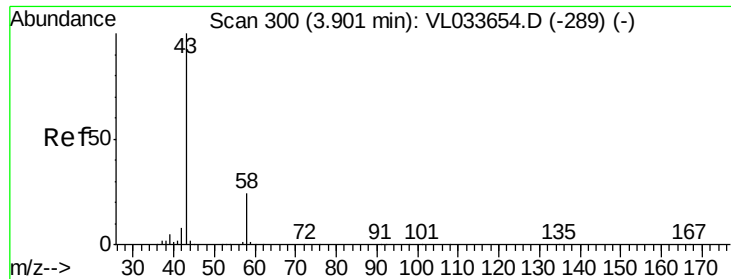


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.168 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

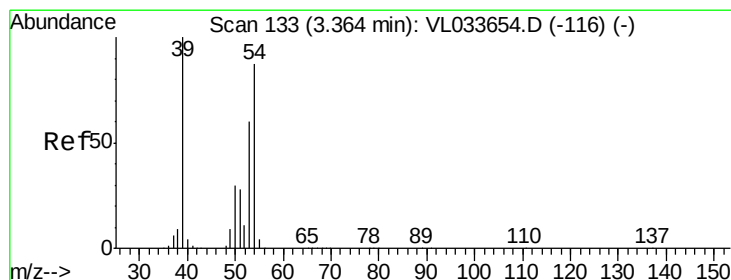
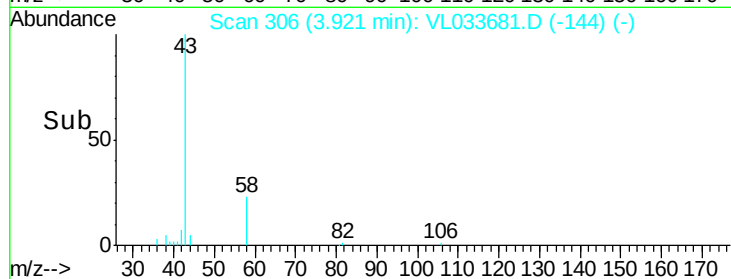
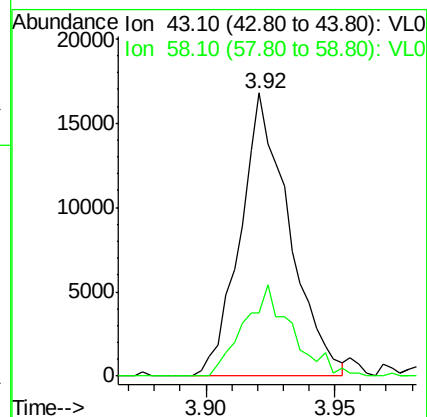
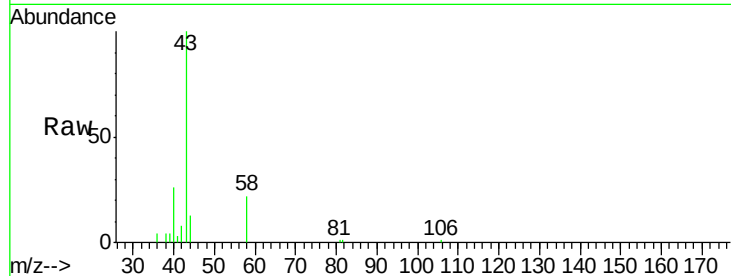
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 22183

Ion Ratio Lower Upper

43 100

58 31.9 20.9 31.3#



#16

1,3-Butadiene

Concen: 0.113 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033681.D

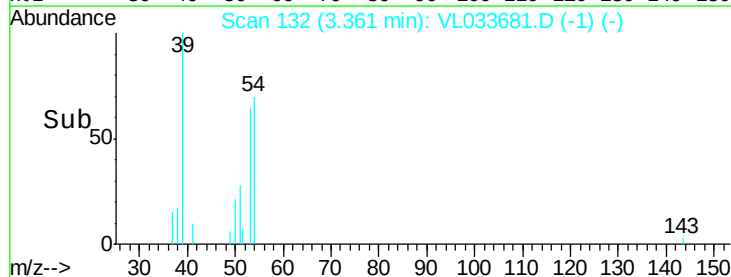
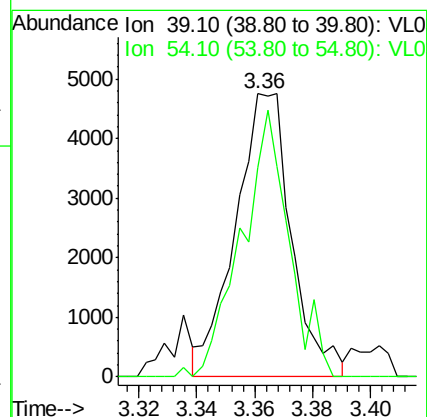
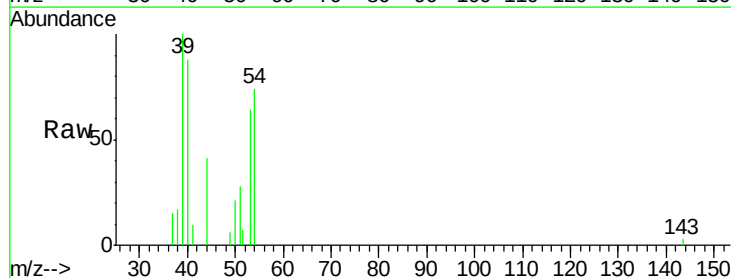
Acq: 7 May 2019 14:17

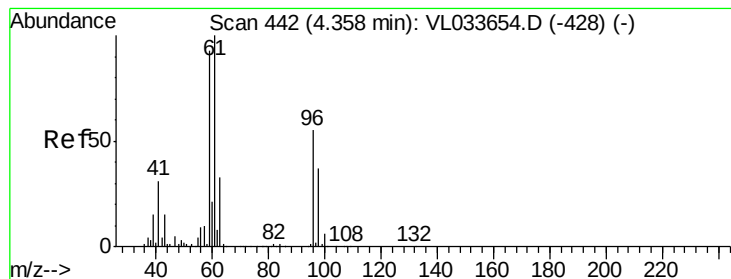
Tgt Ion: 39 Resp: 6398

Ion Ratio Lower Upper

39 100

54 80.0 67.0 100.4





#17

tert-Butyl alcohol

Concen: 0.139 ppbv m

RT: 4.39 min Scan# 451

Delta R.T. 0.03 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

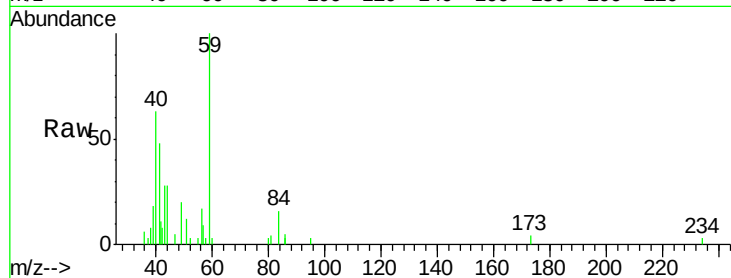
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 59 Resp: 13968

Ion Ratio Lower Upper

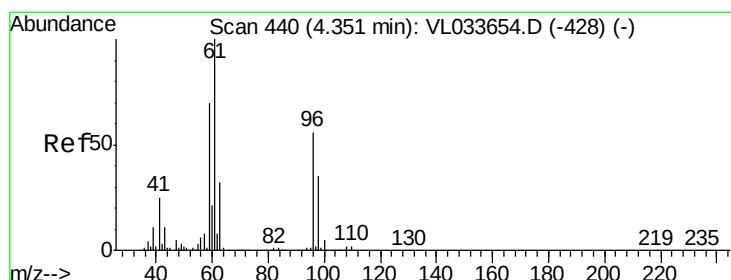
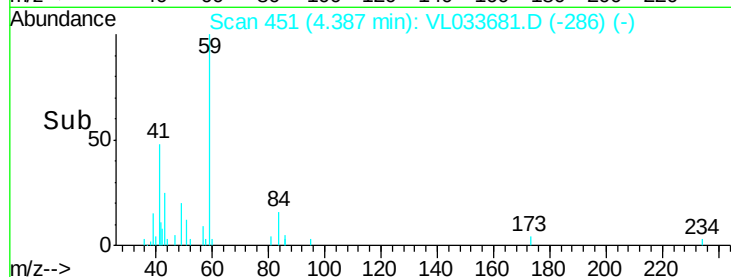
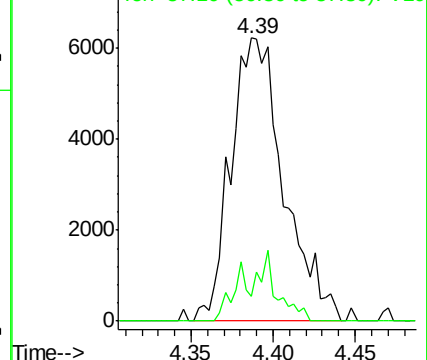
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.131 ppbv m

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

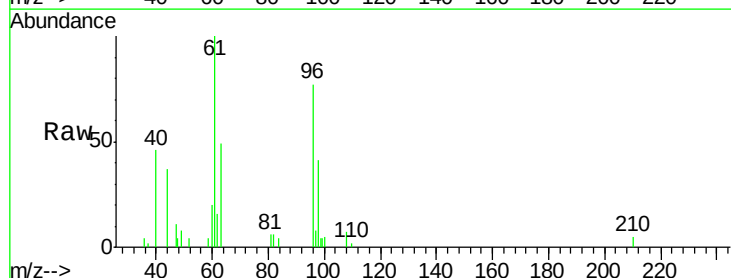
Tgt Ion: 96 Resp: 7369

Ion Ratio Lower Upper

96 100

61 130.2 143.4 215.0#

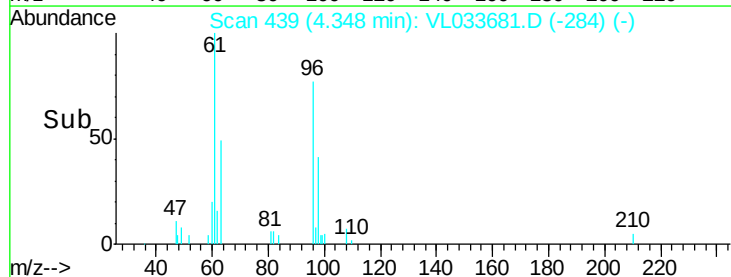
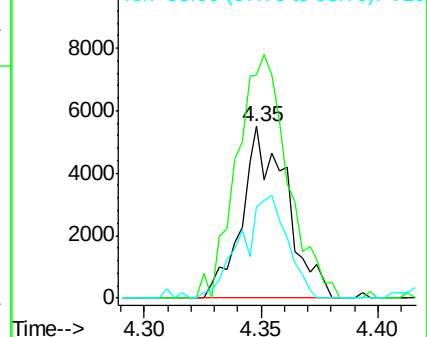
98 53.3 50.4 75.6

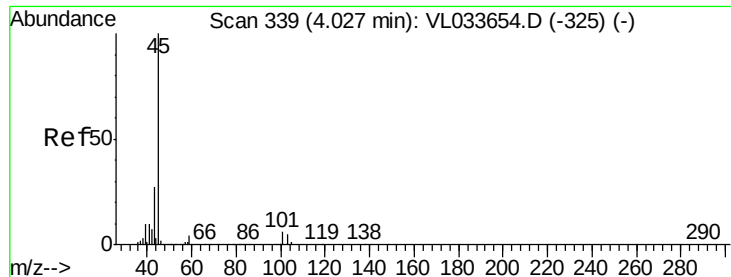


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.158 ppbv m

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

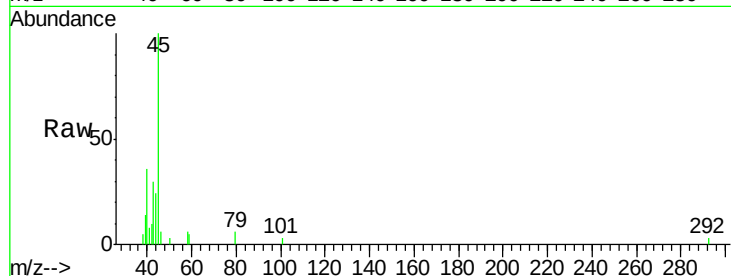
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 45 Resp: 12835

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

8000

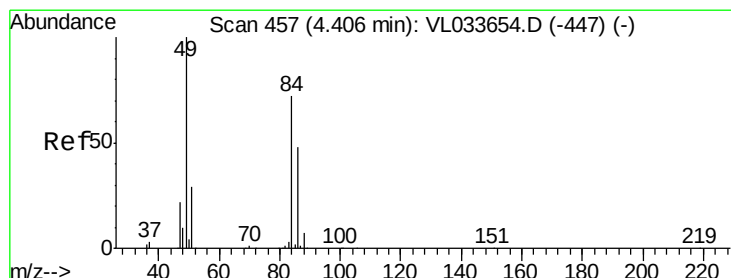
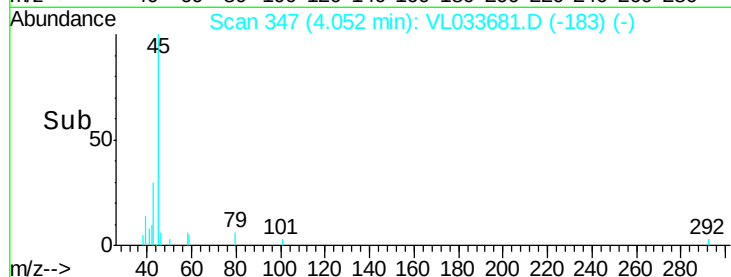
6000

4000

2000

0

Time--> 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 0.191 ppbv m

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Tgt Ion: 84 Resp: 9593

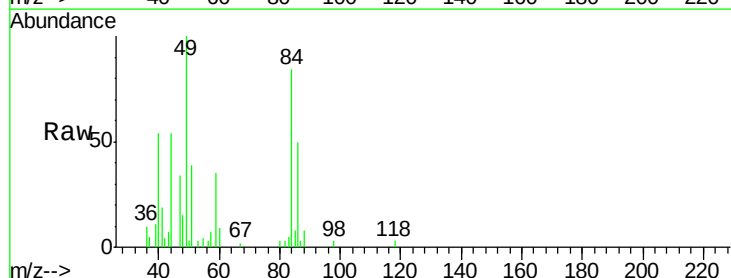
Ion Ratio Lower Upper

84 100

49 119.6 111.8 167.6

51 47.0 32.3 48.5

86 59.5 53.9 80.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

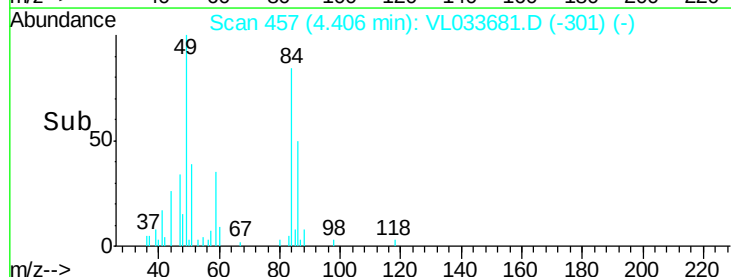
Ion 86.00 (85.70 to 86.70): VL0

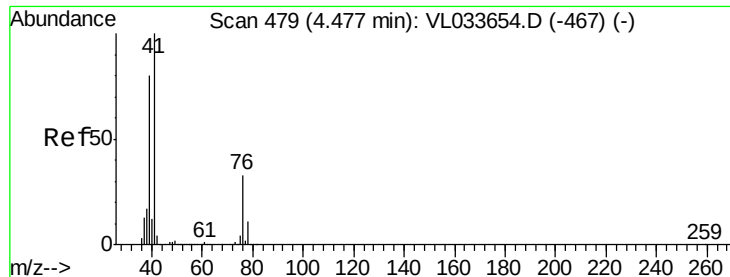
10000

5000

0

Time--> 4.35 4.40 4.45

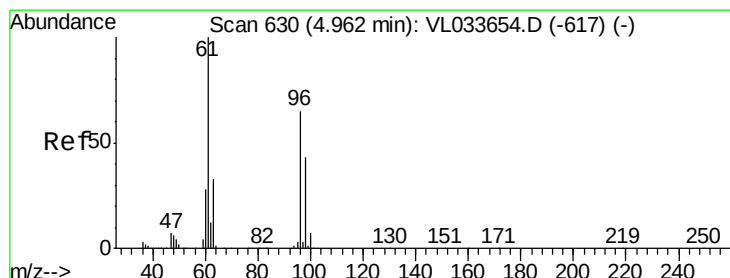
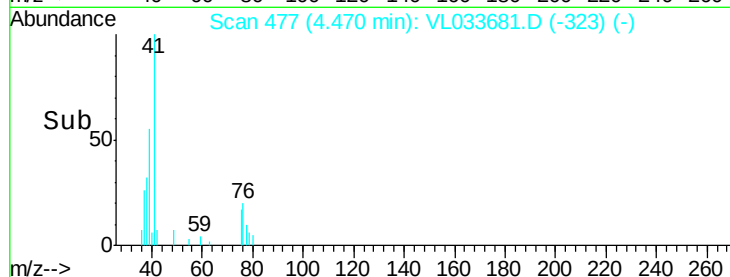
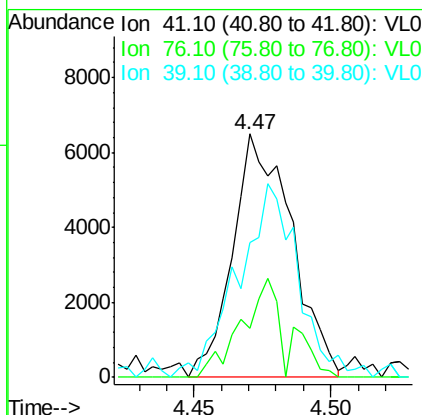
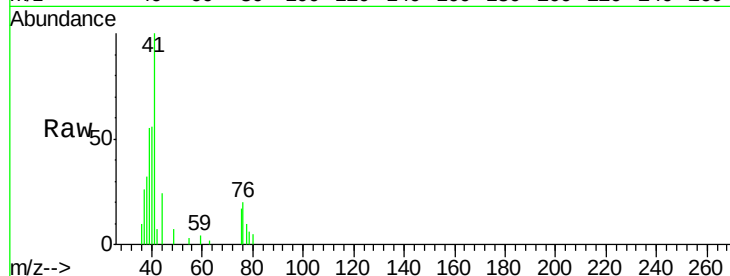




#21
 Allvl Chloride
 Concen: 0.121 ppbv m
 RT: 4.47 min Scan# 477
 Delta R.T. -0.01 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

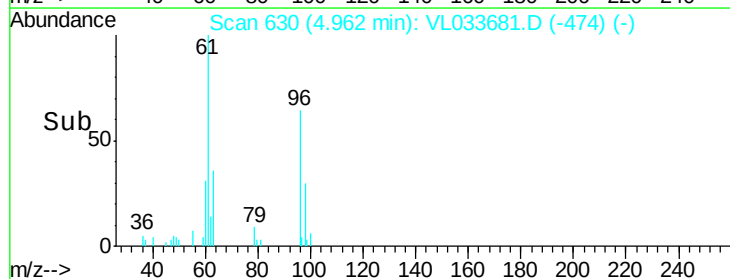
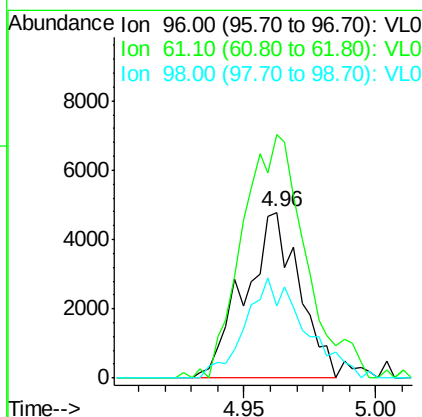
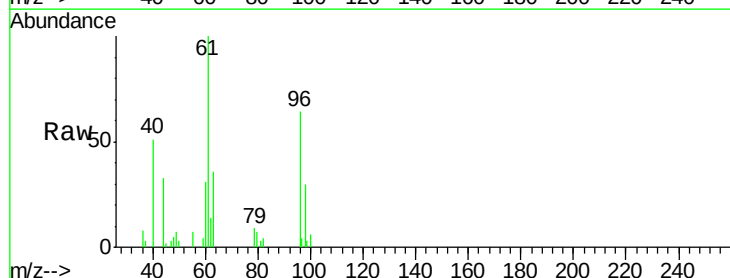
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

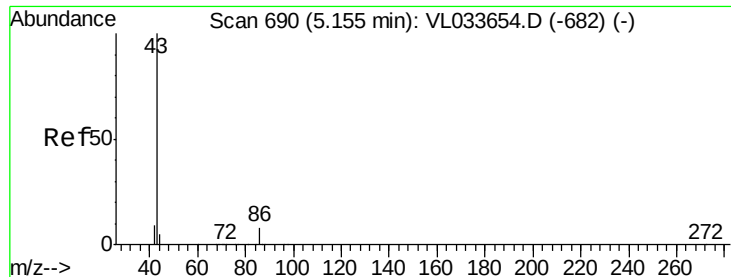
Tot Ion: 41 Resp: 9714
 Ion Ratio Lower Upper
 41 100
 76 0.0 26.0 39.0#
 39 0.0 64.4 96.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.122 ppbv m
 RT: 4.96 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion: 96 Resp: 6898
 Ion Ratio Lower Upper
 96 100
 61 157.5 123.1 184.7
 98 46.8 52.6 79.0#





#23

Vinyl Acetate

Concen: 0.089 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

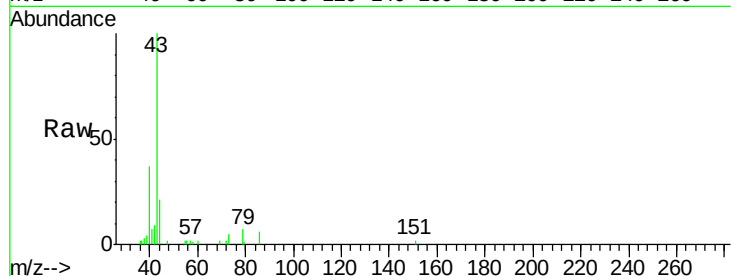
MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 15215

Ion	Ratio	Lower	Upper
43	100		
86	6.7	6.0	9.0
42	6.8	8.0	12.0#
44	5.5	3.9	5.9

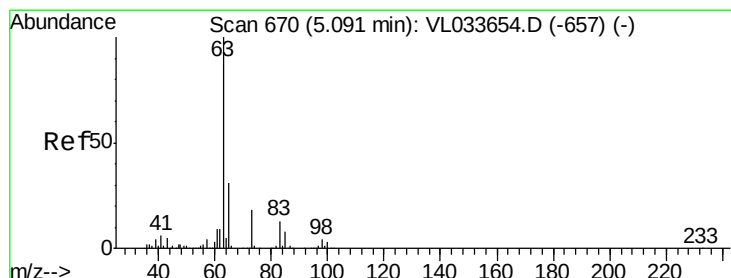
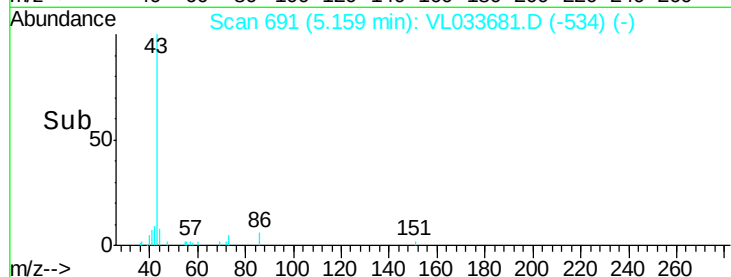
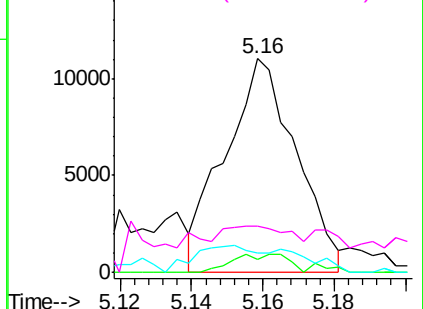


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.110 ppbv

RT: 5.08 min Scan# 668

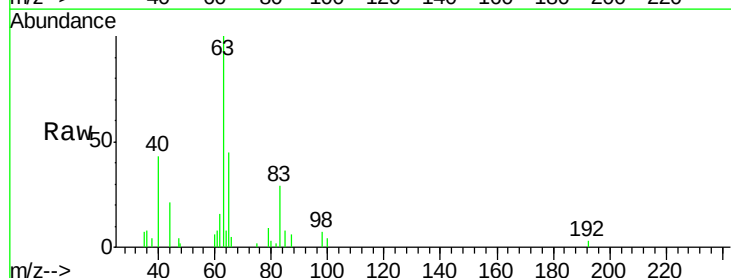
Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Tgt Ion: 63 Resp: 14278

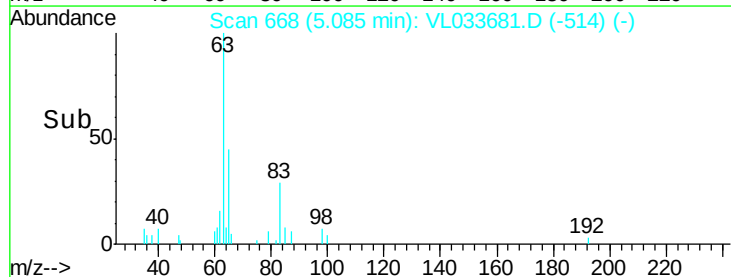
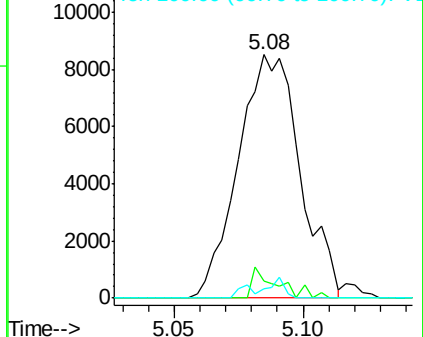
Ion	Ratio	Lower	Upper
63	100		
98	6.8	2.1	6.2#
100	3.8	1.5	4.4

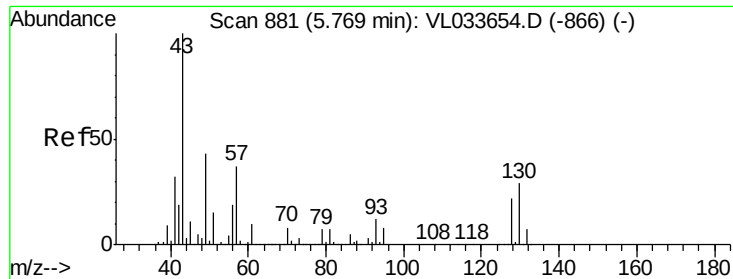


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

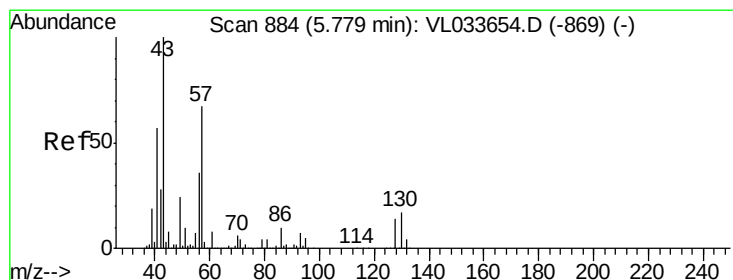
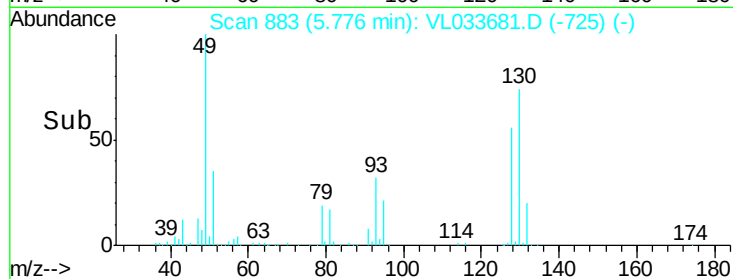
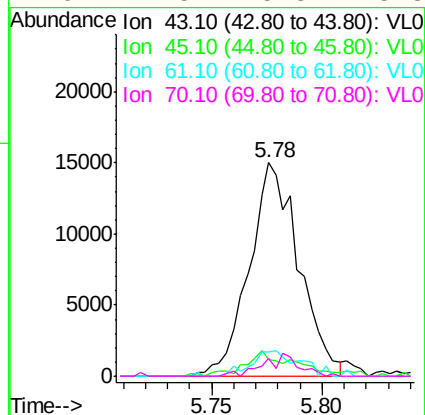
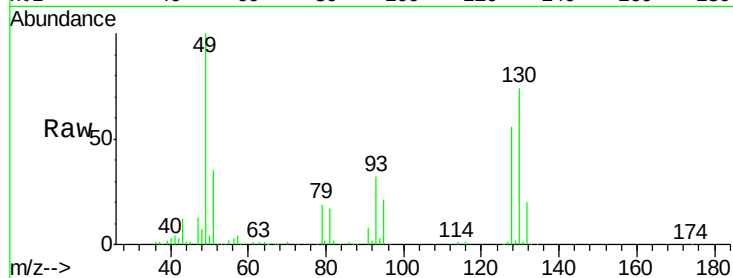




#25
Ethyl Acetate
Concen: 0.109 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

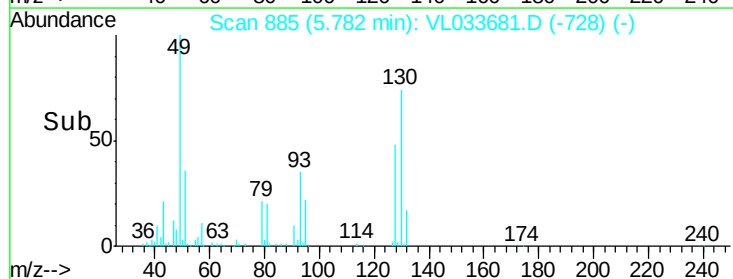
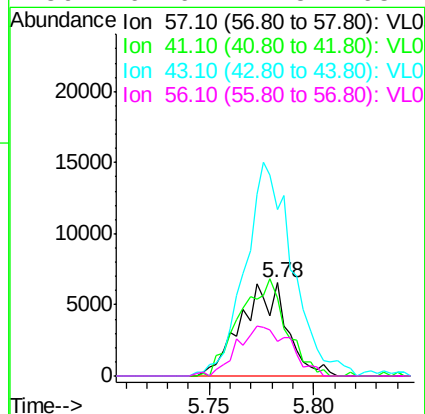
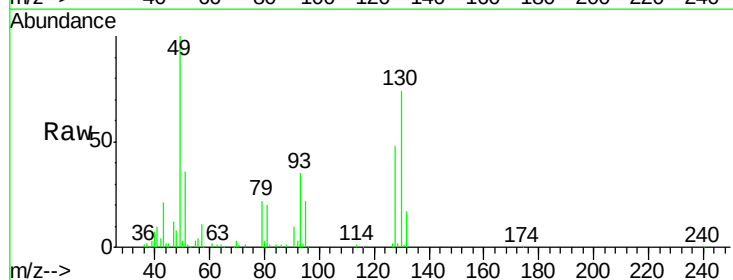
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

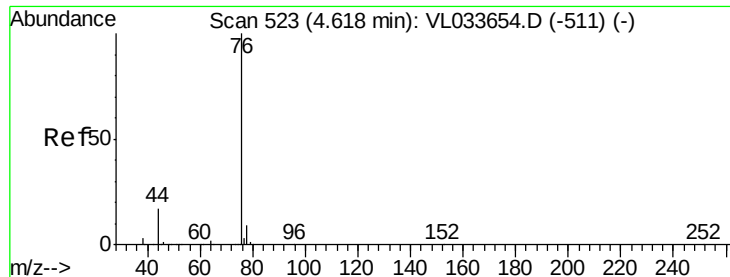
Tot Ion:	43	Resp:	23453
Ion	Ratio	Lower	Upper
43	100		
45	12.8	8.0	12.0#
61	12.2	7.5	11.3#
70	7.5	5.8	8.8



#26
Hexane
Concen: 0.108 ppbv m
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Tgt Ion:	57	Resp:	10018
Ion	Ratio	Lower	Upper
57	100		
41	0.0	69.7	104.5#
43	0.0	181.9	272.9#
56	61.6	42.5	63.7





#27

Carbon Disulfide

Concen: 0.103 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

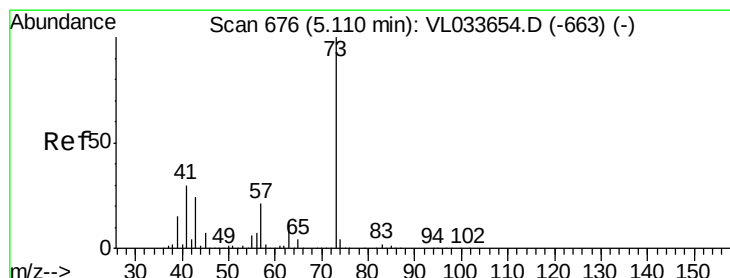
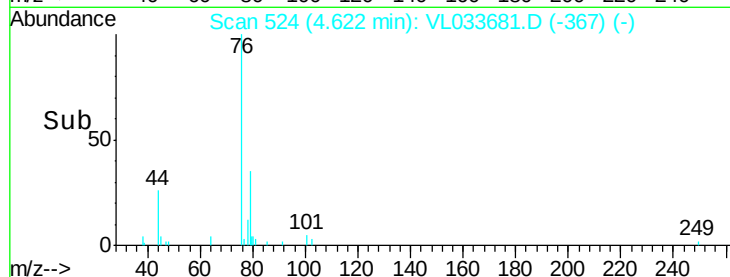
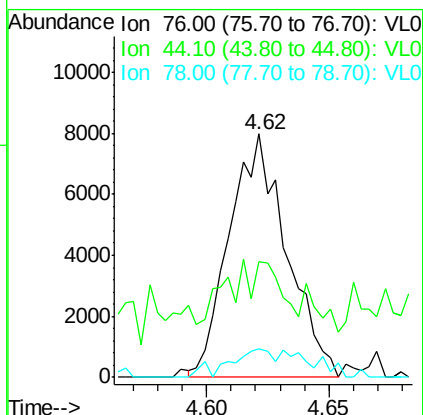
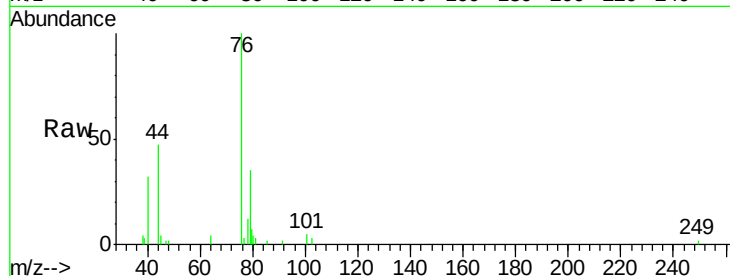
Tot Ion: 76 Resp: 13032

Ion Ratio Lower Upper

76 100

44 33.3 14.4 21.6#

78 15.9 7.4 11.2#



#28

Methyl tert-Butyl Ether

Concen: 0.092 ppbv

RT: 5.14 min Scan# 684

Delta R.T. 0.03 min

Lab File: VL033681.D

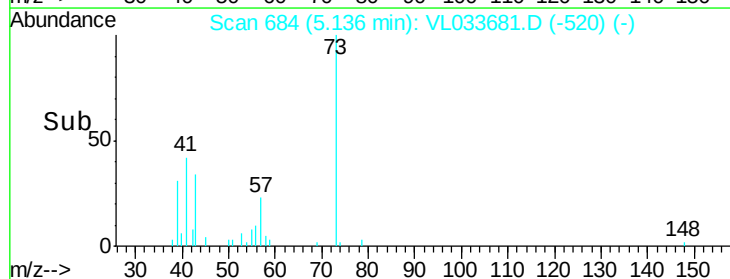
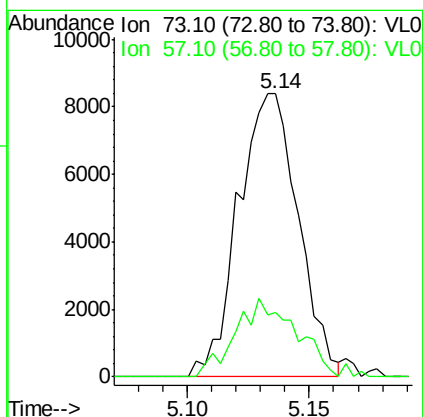
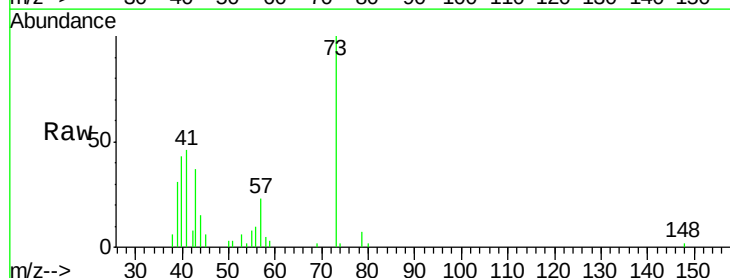
Acq: 7 May 2019 14:17

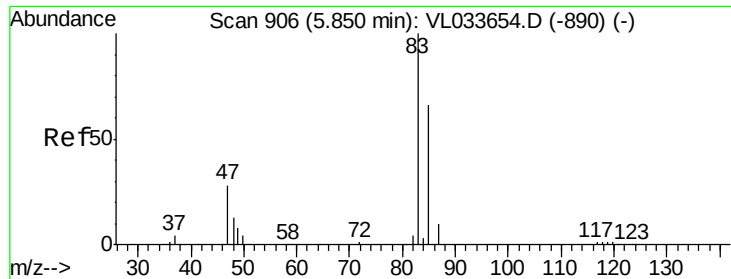
Tgt Ion: 73 Resp: 14286

Ion Ratio Lower Upper

73 100

57 28.6 17.4 26.0#

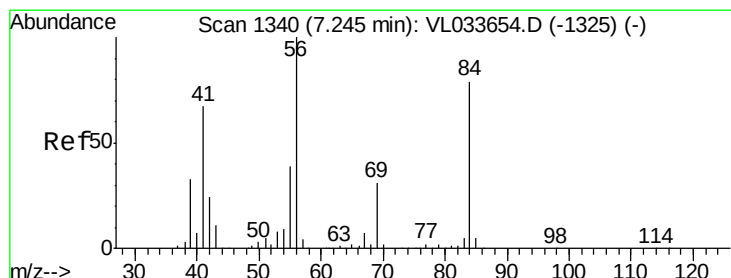
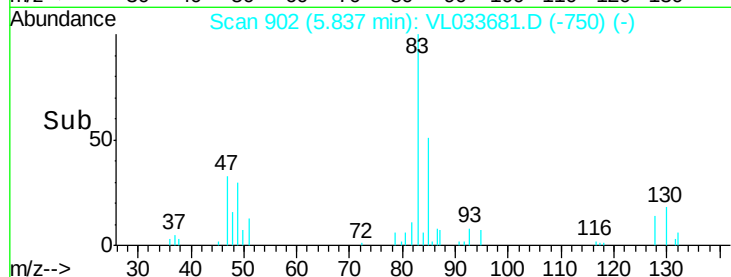
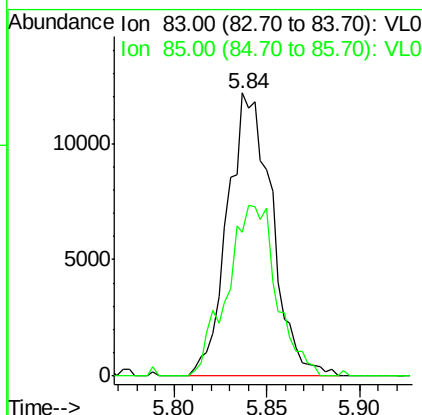
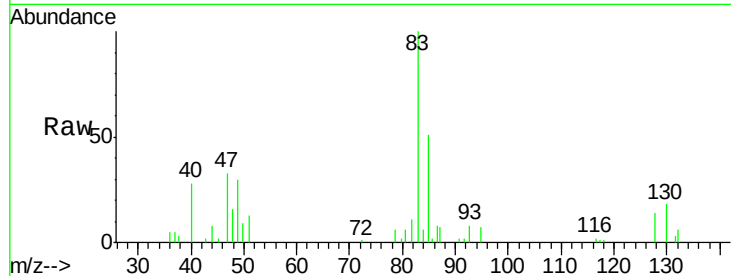




#29
Chloroform
Concen: 0.122 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

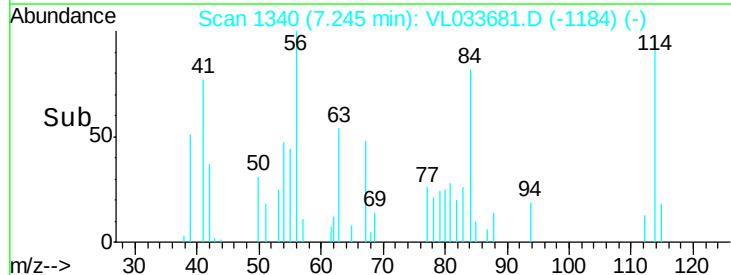
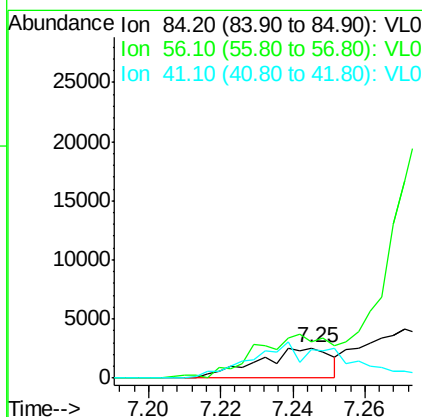
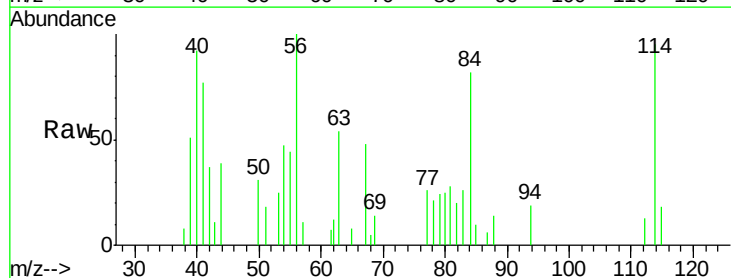
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

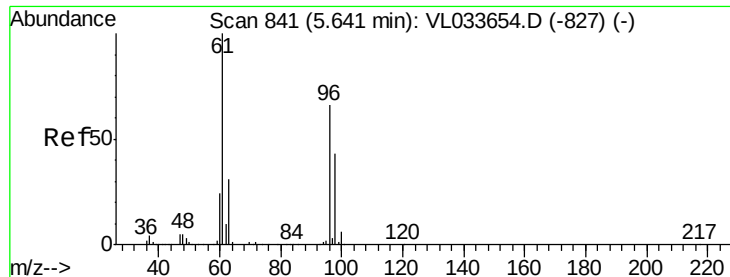
Tot Ion: 83 Resp: 20256
Ion Ratio Lower Upper
83 100
85 53.1 52.6 78.8



#30
Cyclohexane
Concen: 0.046 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Tgt Ion: 84 Resp: 3558
Ion Ratio Lower Upper
84 100
56 0.0 107.0 160.4#
41 0.0 66.6 99.8#



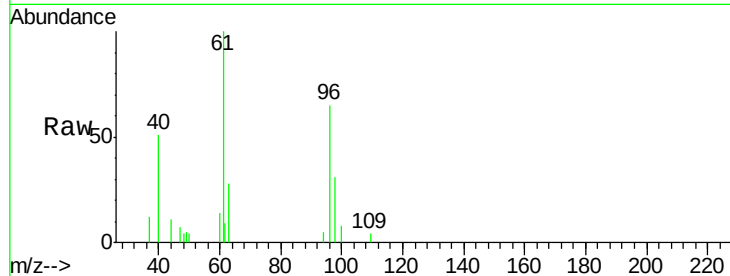


#31

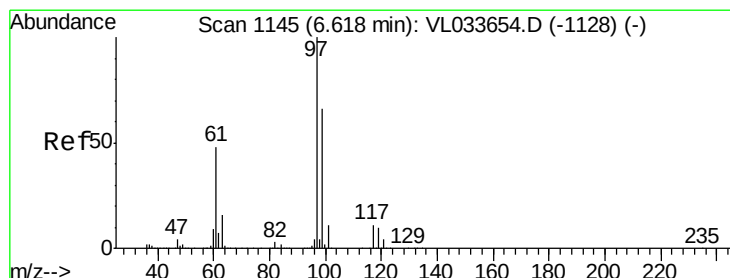
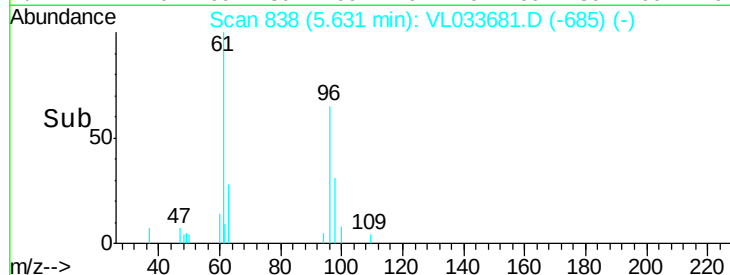
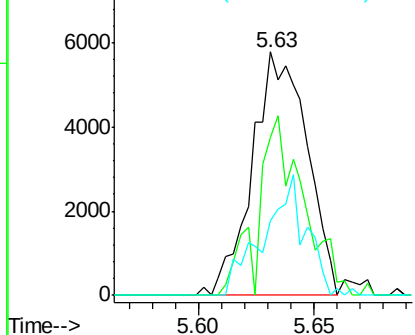
cis-1,2-Dichloroethene
Concen: 0.103 ppbv
RT: 5.63 min Scan# 838
Delta R.T. -0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 61 Resp: 9474
Ion Ratio Lower Upper
61 100
96 64.7 53.2 79.8
98 30.6 34.2 51.4#



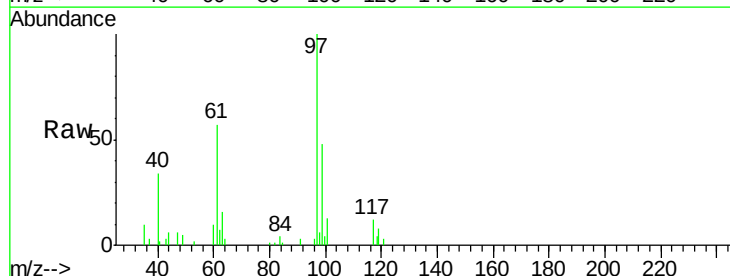
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



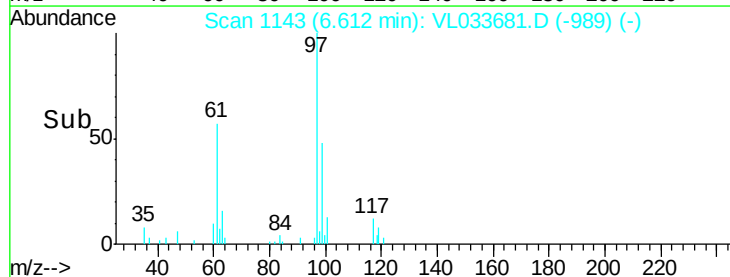
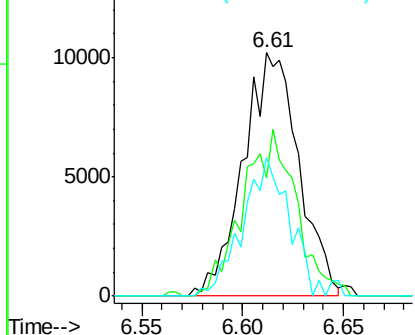
#32

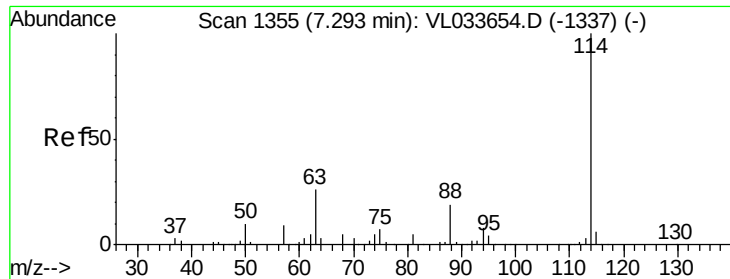
1,1,1-Trichloroethane
Concen: 0.114 ppbv
RT: 6.61 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Tgt Ion: 97 Resp: 19628
Ion Ratio Lower Upper
97 100
99 65.8 51.4 77.2
61 49.5 38.5 57.7



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: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

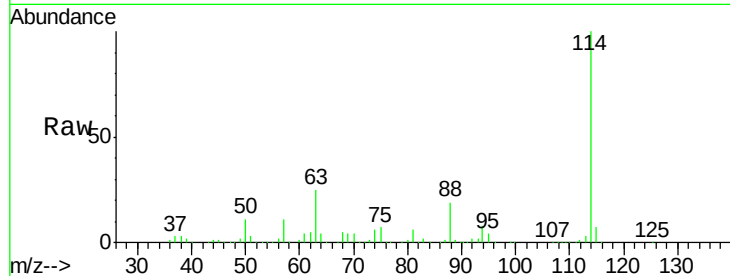
Tot Ion:114 Resp: 2056432

Ion Ratio Lower Upper

114 100

63 26.7 21.3 31.9

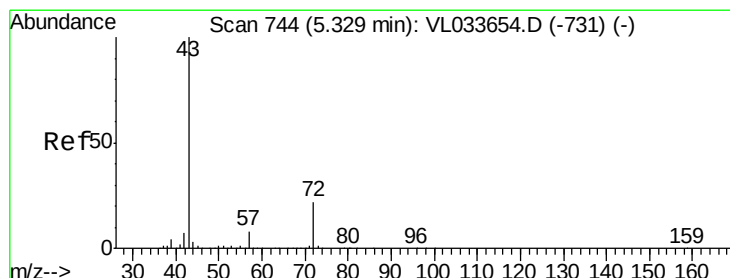
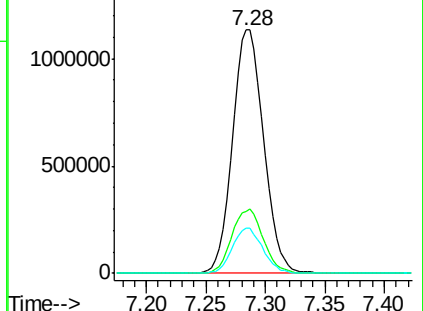
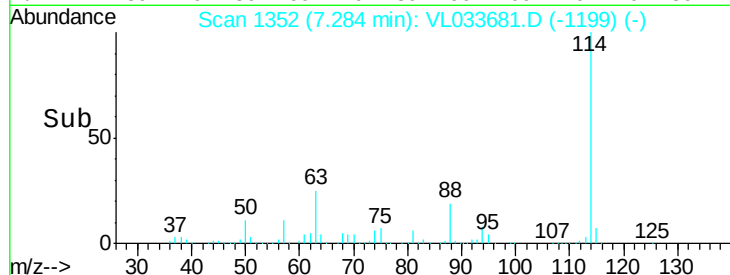
88 18.2 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.102 ppbv m

RT: 5.35 min Scan# 751

Delta R.T. 0.02 min

Lab File: VL033681.D

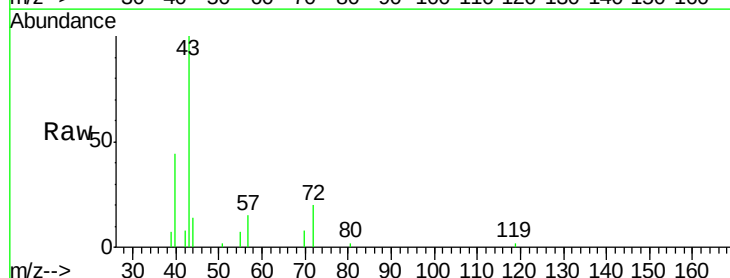
Acq: 7 May 2019 14:17

Tgt Ion: 43 Resp: 13374

Ion Ratio Lower Upper

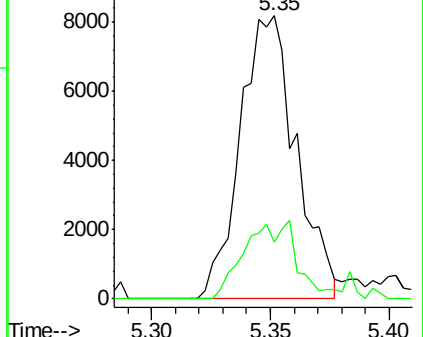
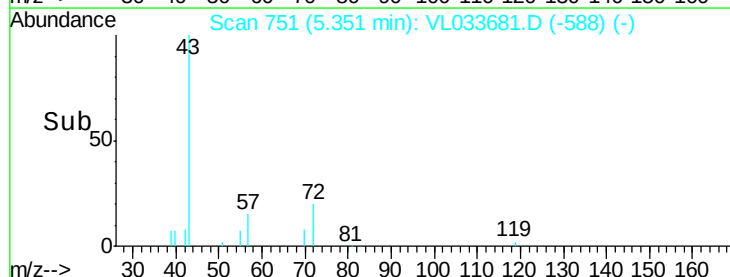
43 100

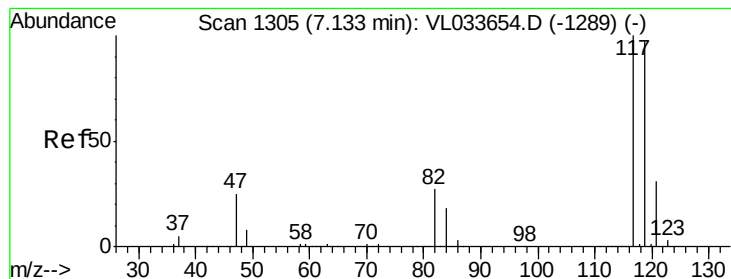
72 28.2 17.5 26.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.123 ppbv m

RT: 7.12 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

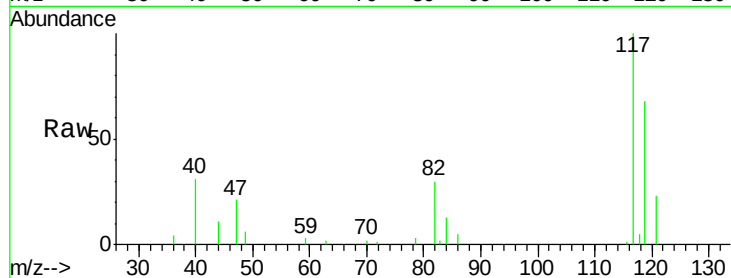
Tot Ion:117 Resp: 20719

Ion Ratio Lower Upper

117 100

119 68.1 77.9 116.9#

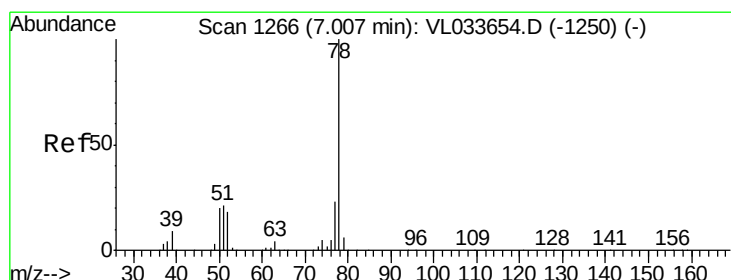
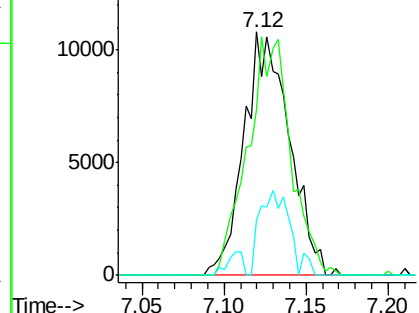
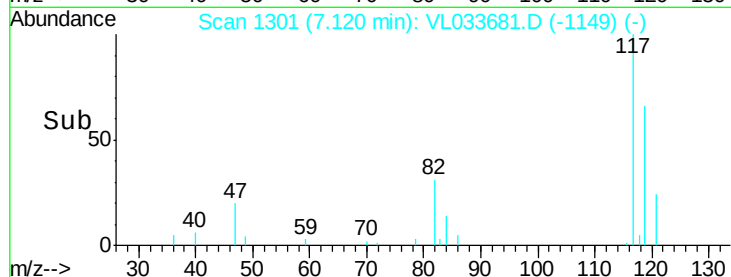
121 22.8 25.0 37.6#



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: 0.099 ppbv m

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

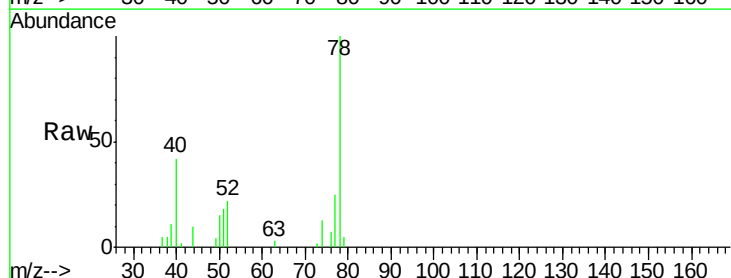
Tgt Ion: 78 Resp: 18197

Ion Ratio Lower Upper

78 100

77 24.8 18.2 27.2

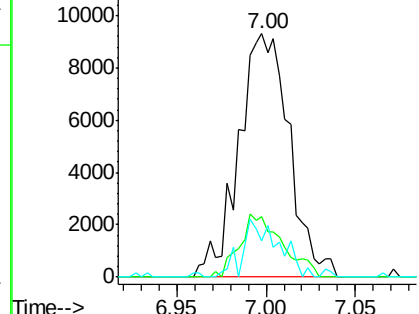
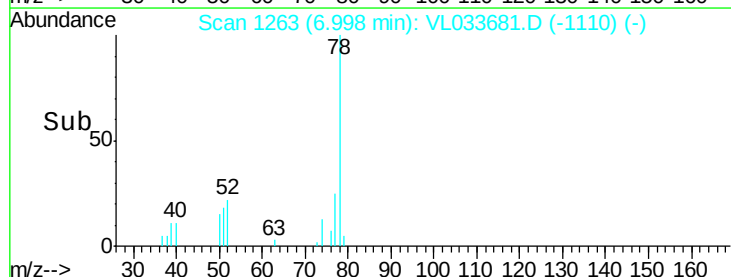
50 14.8 15.8 23.6#

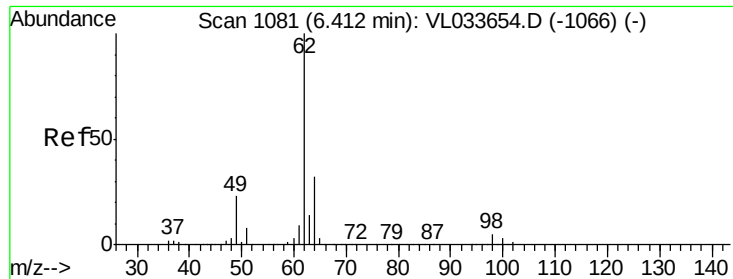


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

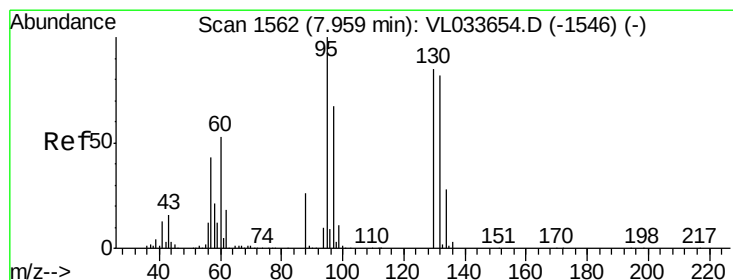
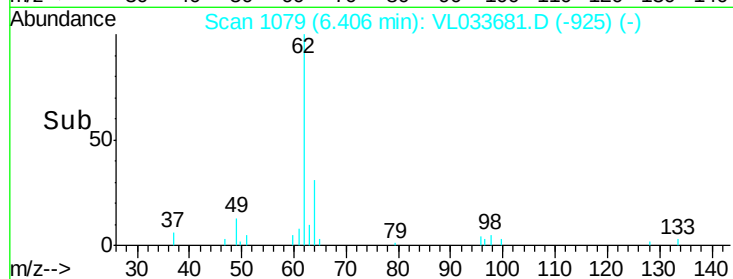
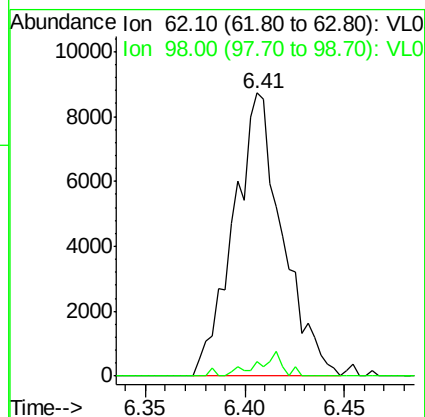
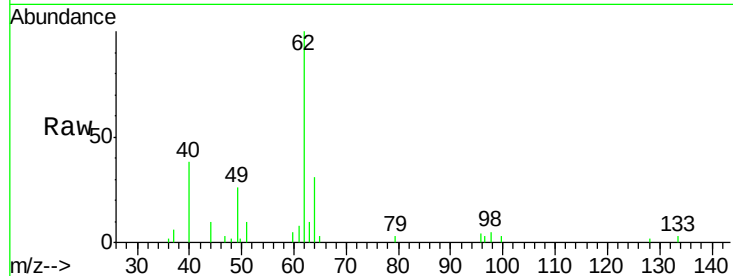




#37
 1,2-Dichloroethane
 Concen: 0.115 ppbv m
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

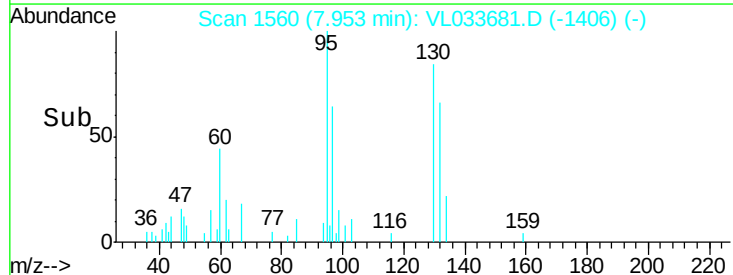
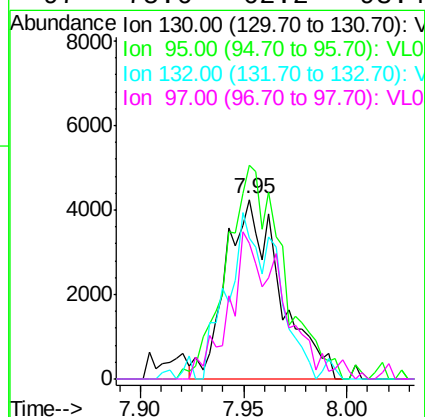
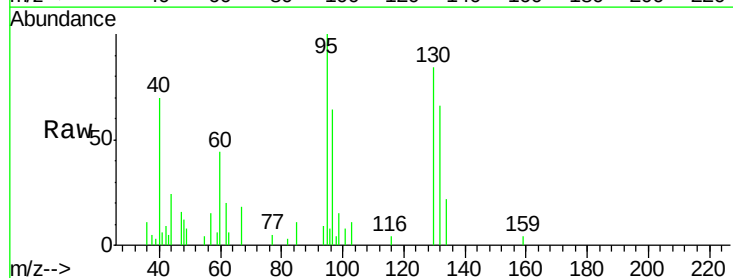
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

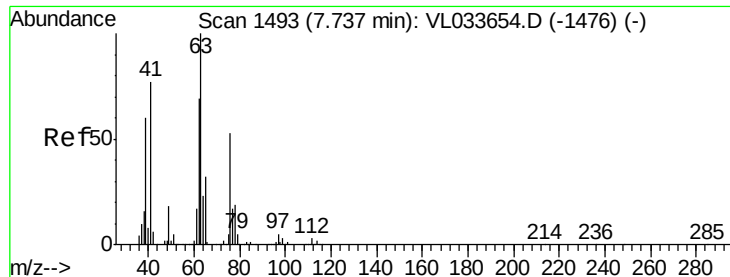
Tot Ion: 62 Resp: 14838
 Ion Ratio Lower Upper
 62 100
 98 4.7 4.5 6.7



#38
 Trichloroethene
 Concen: 0.115 ppbv m
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion: 130 Resp: 7788
 Ion Ratio Lower Upper
 130 100
 95 119.0 93.4 140.0
 132 78.2 76.2 114.4
 97 75.6 62.2 93.4





#39

1,2-Dichloropropane

Concen: 0.124 ppbv m

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

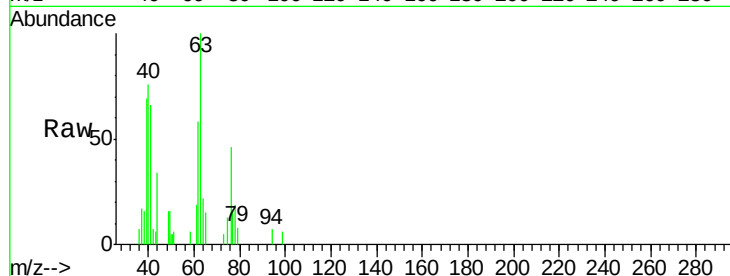
Tot Ion: 63 Resp: 8550

Ion Ratio Lower Upper

63 100

41 65.9 61.6 92.4

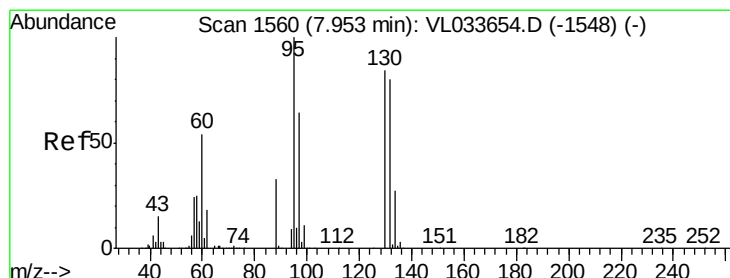
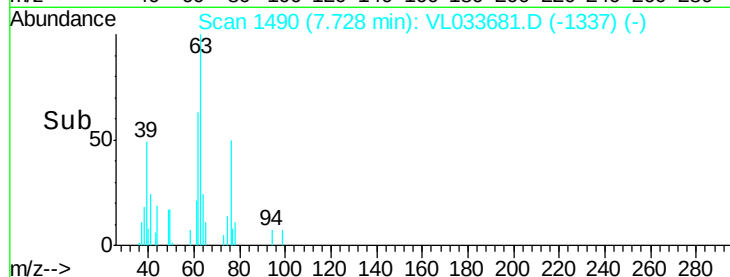
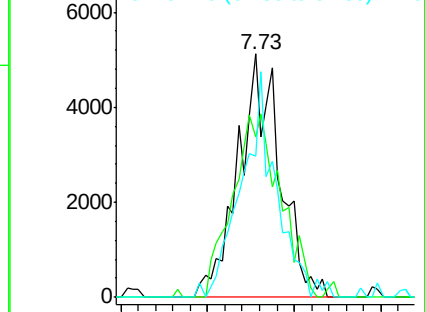
62 57.9 55.0 82.6



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.062 ppbv m

RT: 8.01 min Scan# 1578

Delta R.T. 0.06 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Tgt Ion: 88 Resp: 1693

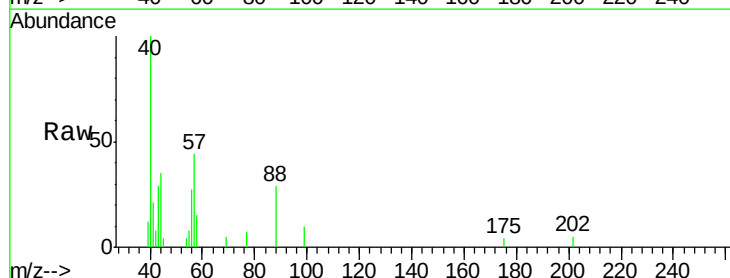
Ion Ratio Lower Upper

88 100

58 0.0 102.3 153.5#

43 413.5 206.1 309.1#

57 1365.2 910.6 1366.0

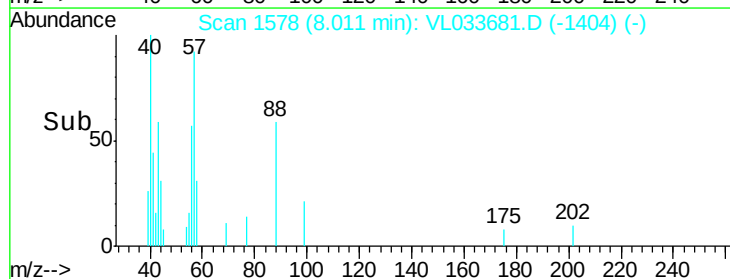
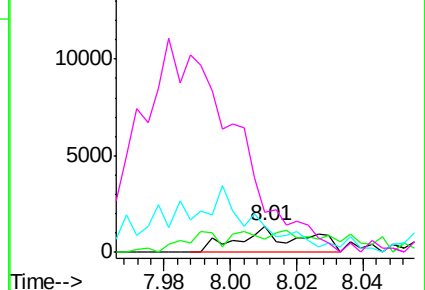


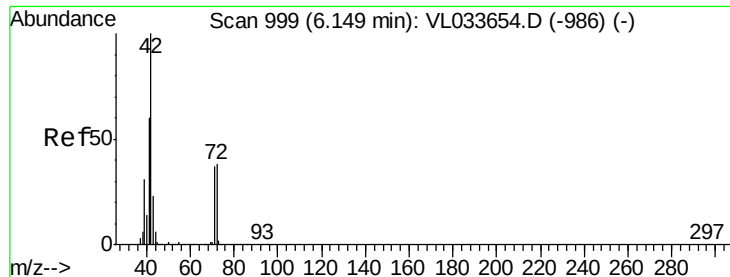
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.075 ppbv m

RT: 6.18 min Scan# 1009

Delta R.T. 0.03 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

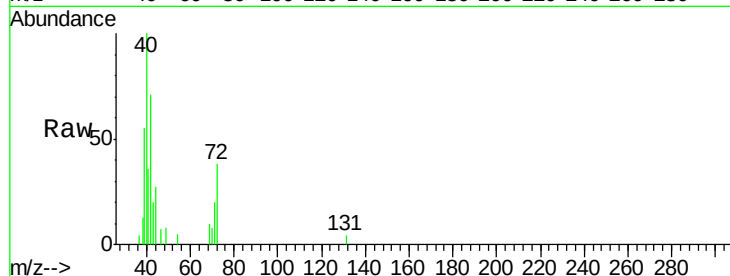
Tot Ion: 42 Resp: 5072

Ion Ratio Lower Upper

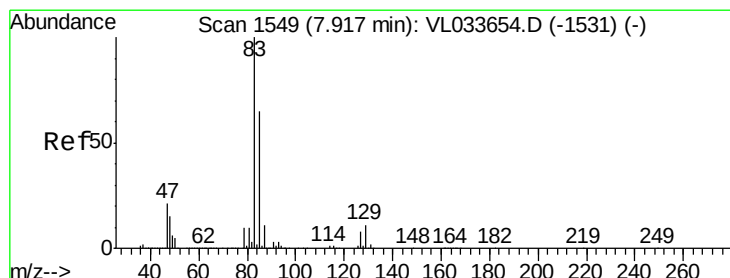
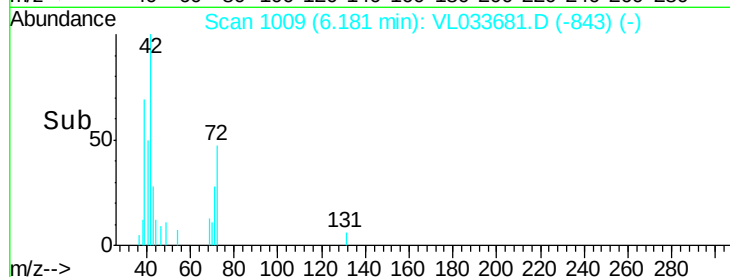
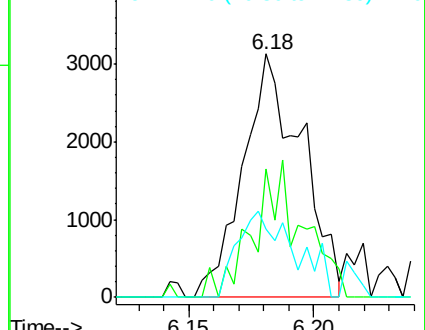
42 100

72 0.0 31.6 47.4#

71 0.0 30.6 46.0#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.116 ppbv m

RT: 7.90 min Scan# 1545

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

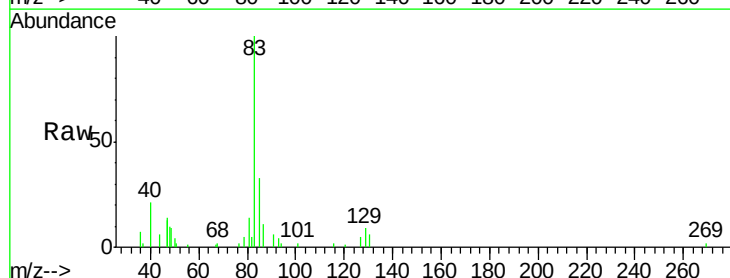
Tgt Ion: 83 Resp: 19281

Ion Ratio Lower Upper

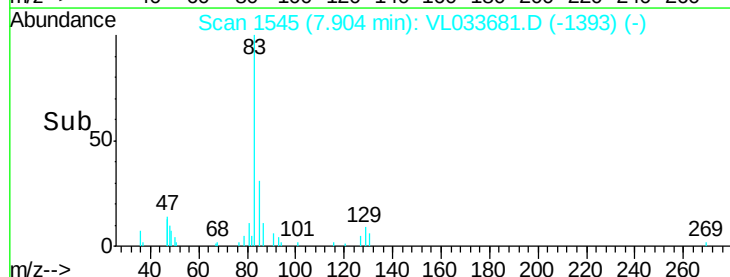
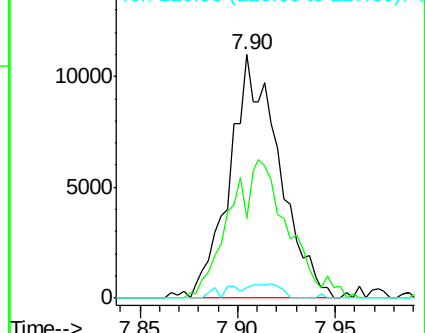
83 100

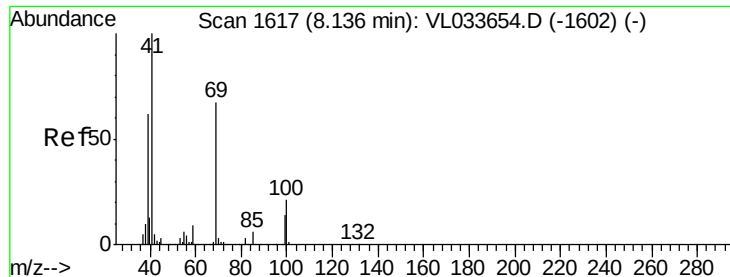
85 32.9 52.4 78.6#

127 4.5 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

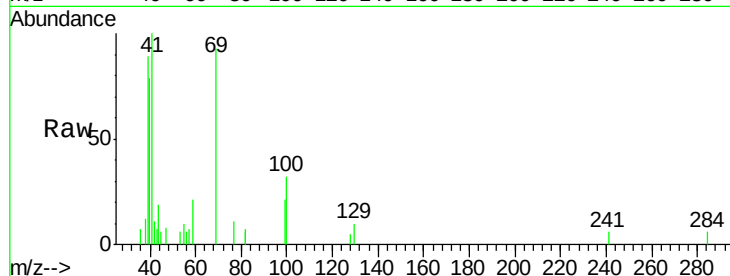




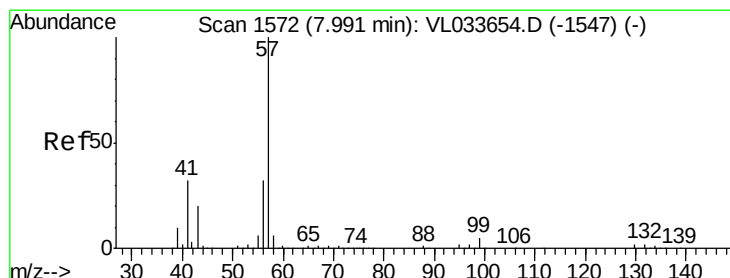
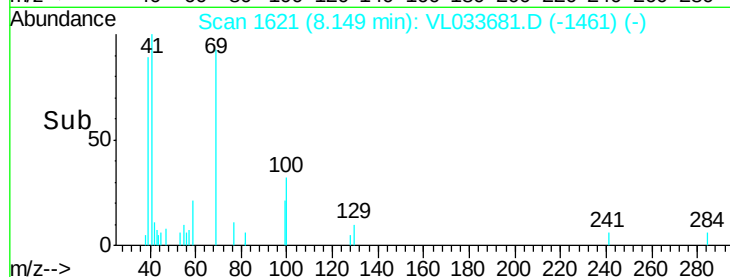
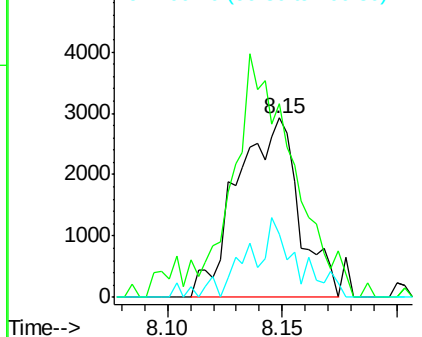
#43
Methvl Methacrylate
Concen: 0.079 ppbv m
RT: 8.15 min Scan# 1621
Delta R.T. 0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 69 Resp: 5508
Ion Ratio Lower Upper
69 100
41 0.0 116.6 175.0#
100 0.0 24.6 37.0#

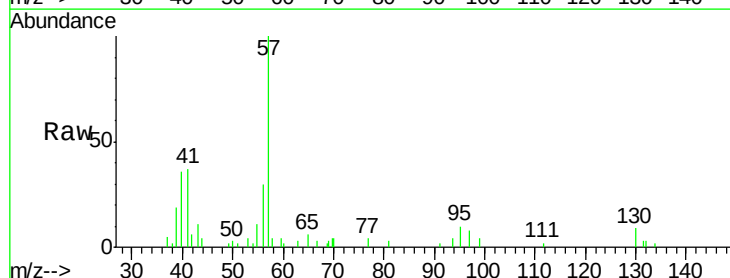


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

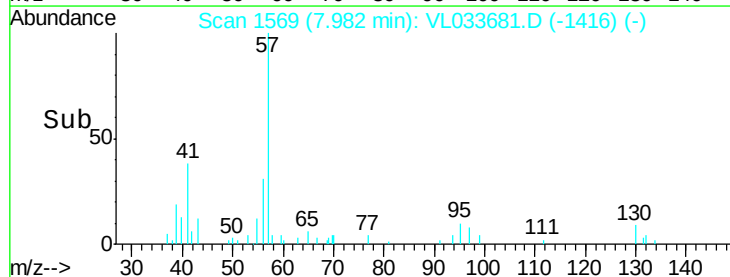
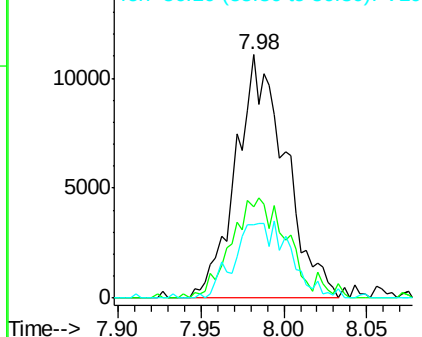


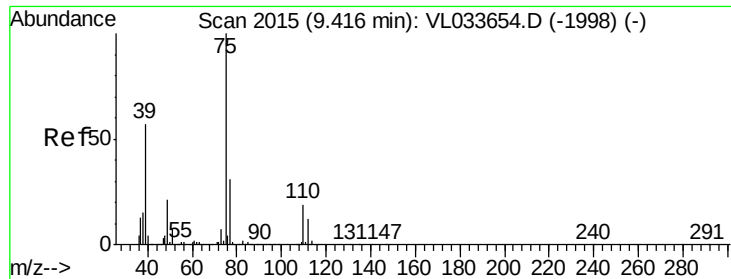
#44
2,2,4-Trimethylpentane
Concen: 0.073 ppbv m
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Tgt Ion: 57 Resp: 23021
Ion Ratio Lower Upper
57 100
41 0.0 25.7 38.5#
56 0.0 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.079 ppbv m

RT: 9.41 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

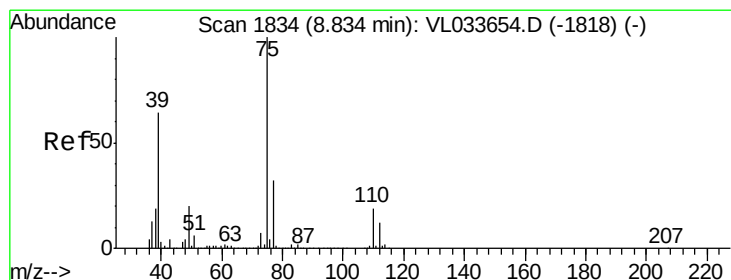
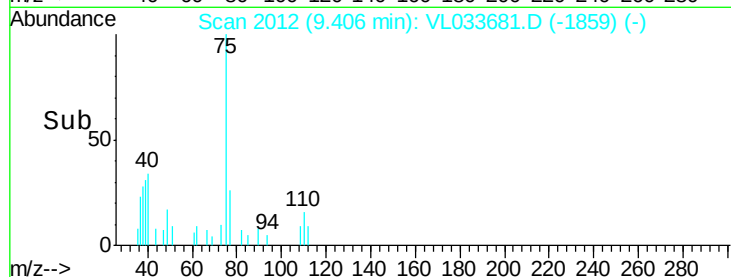
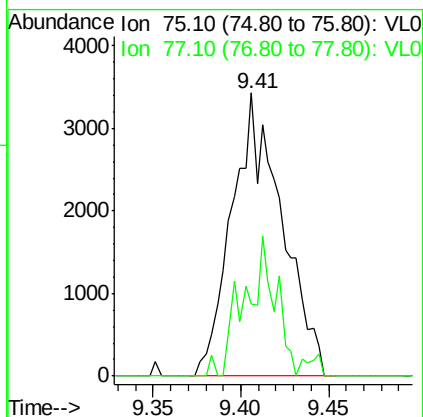
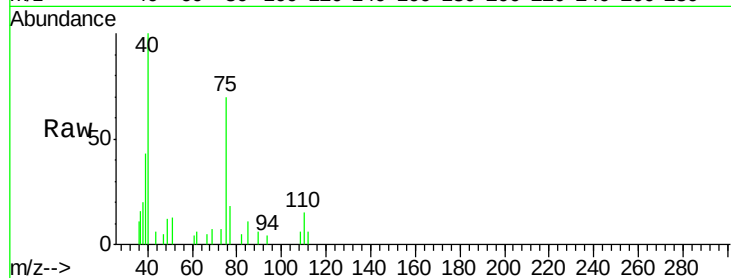
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 75 Resp: 6738

Ion Ratio Lower Upper

75 100

77 25.7 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 0.074 ppbv m

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

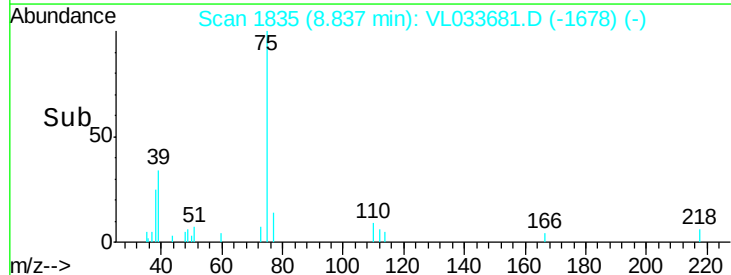
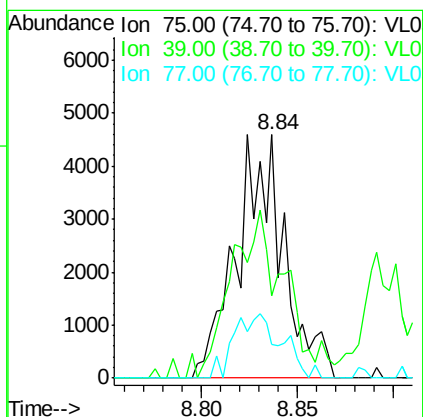
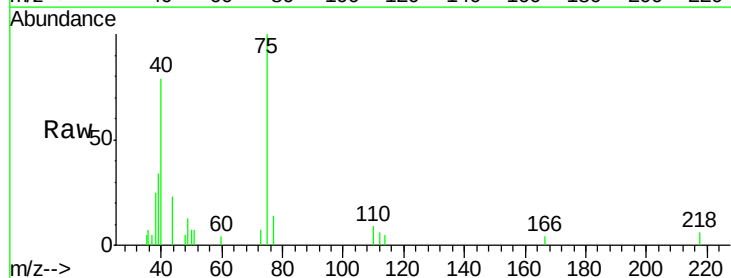
Tgt Ion: 75 Resp: 7818

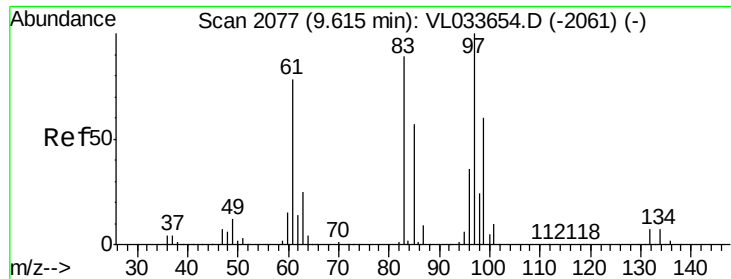
Ion Ratio Lower Upper

75 100

39 33.7 51.5 77.3#

77 14.1 25.4 38.0#

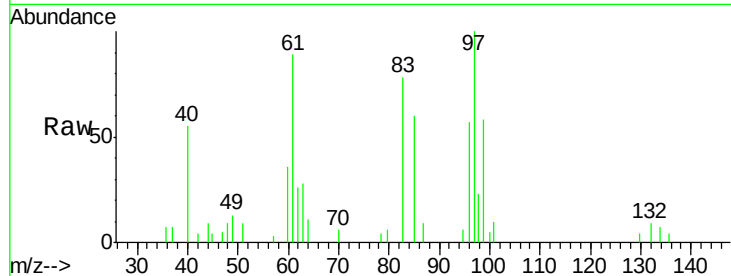




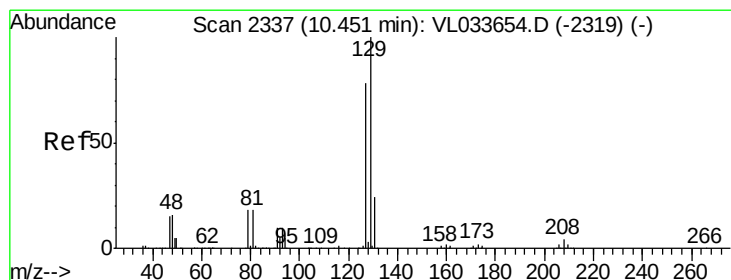
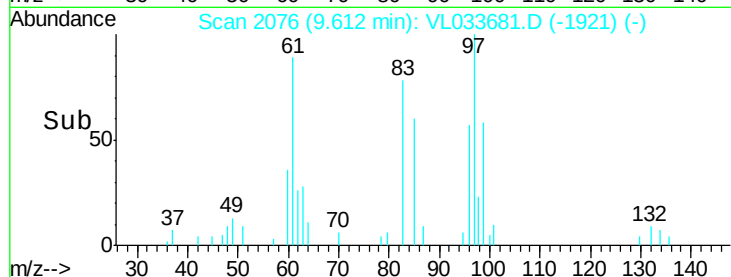
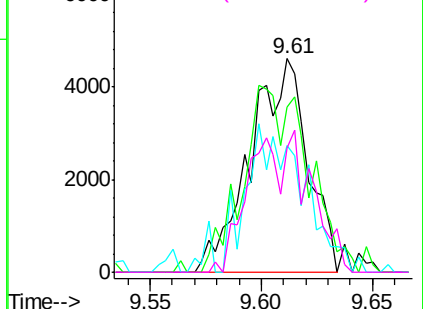
#47
 1,1,2-Trichloroethane
 Concen: 0.105 ppbv m
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion:	97	Resp:	8260
Ion	Ratio	Lower	Upper
97	100		
83	77.6	70.9	106.3
85	59.5	45.8	68.6
99	58.3	48.2	72.4

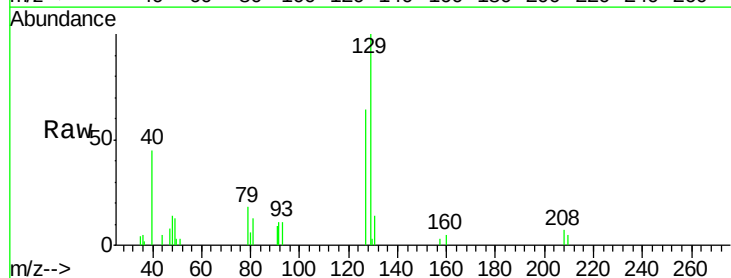


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

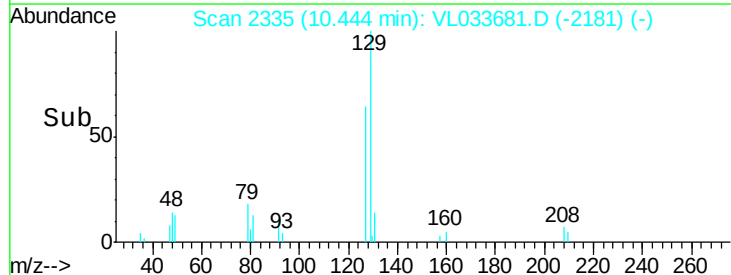
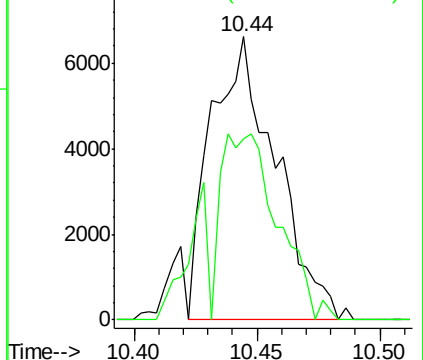


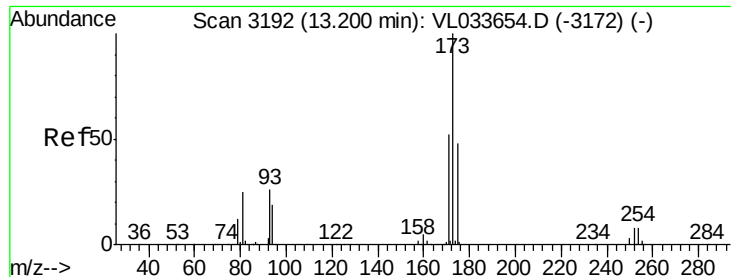
#48
 Dibromochloromethane
 Concen: 0.091 ppbv m
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion:	129	Resp:	12110
Ion	Ratio	Lower	Upper
129	100		
127	72.6	39.1	117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.078 ppbv m

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

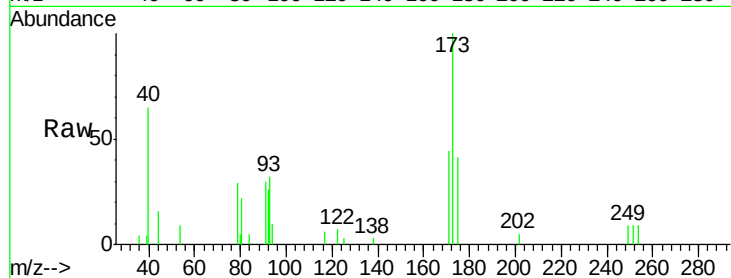
Tot Ion:173 Resp: 9110

Ion Ratio Lower Upper

173 100

175 56.6 39.3 58.9

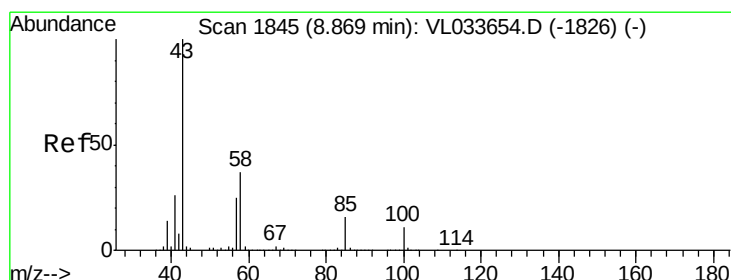
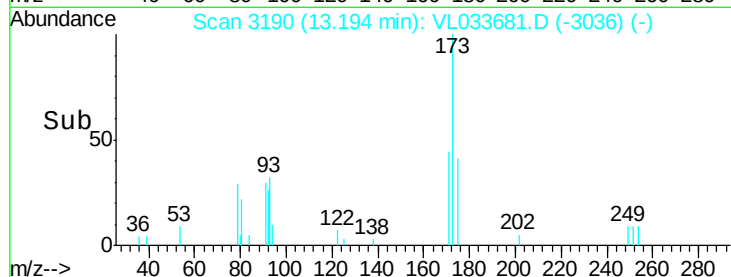
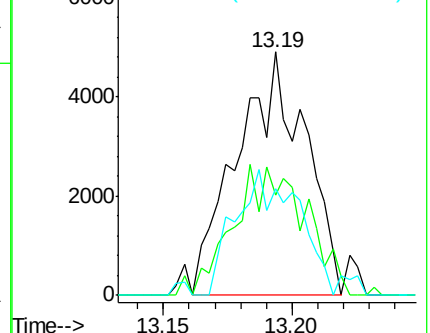
171 50.9 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.086 ppbv m

RT: 8.90 min Scan# 1855

Delta R.T. 0.03 min

Lab File: VL033681.D

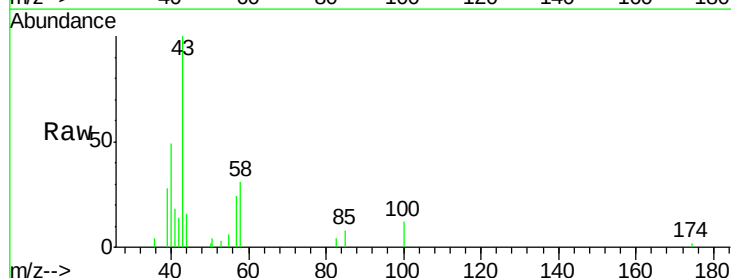
Acq: 7 May 2019 14:17

Tgt Ion: 43 Resp: 17086

Ion Ratio Lower Upper

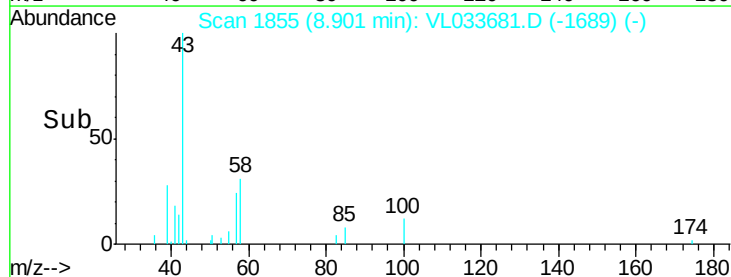
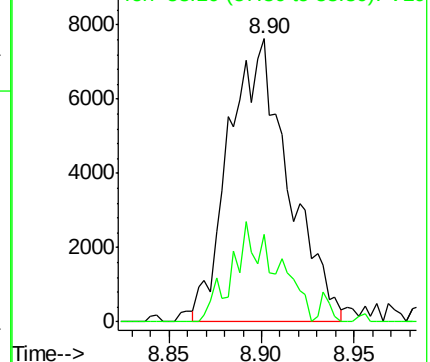
43 100

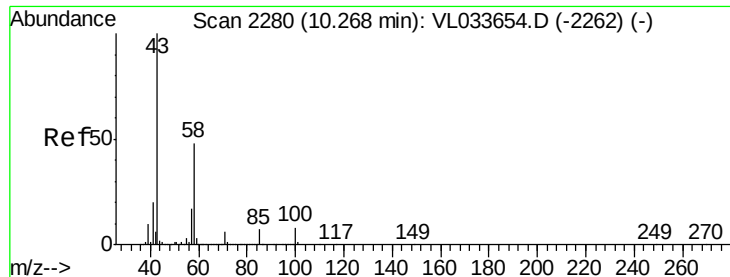
58 0.0 28.8 43.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

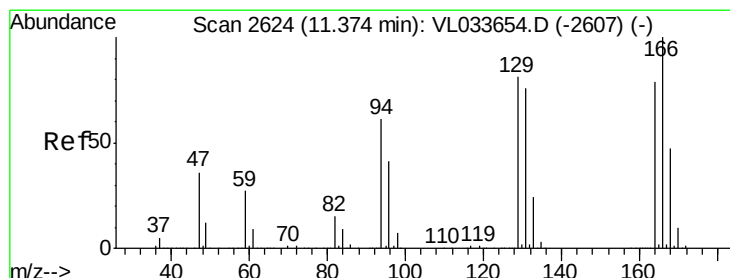
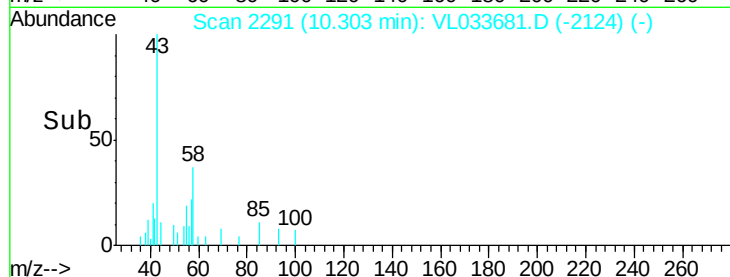
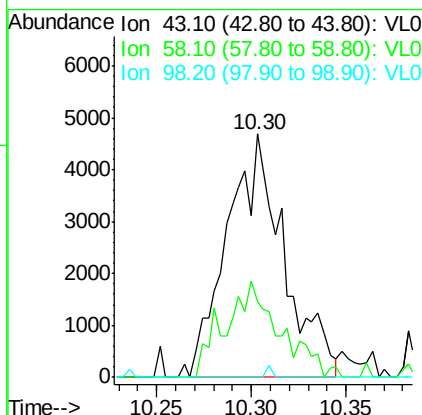
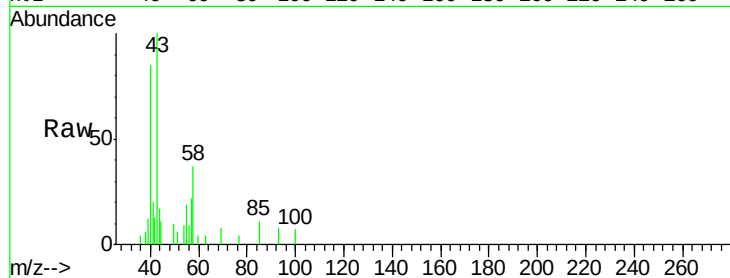




#51
2-Hexanone
Concen: 0.063 ppbv m
RT: 10.30 min Scan# 2291
Delta R.T. 0.04 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

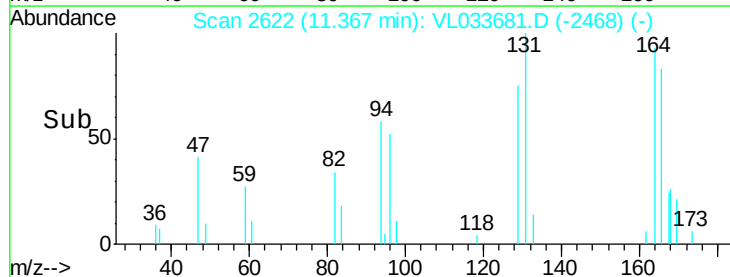
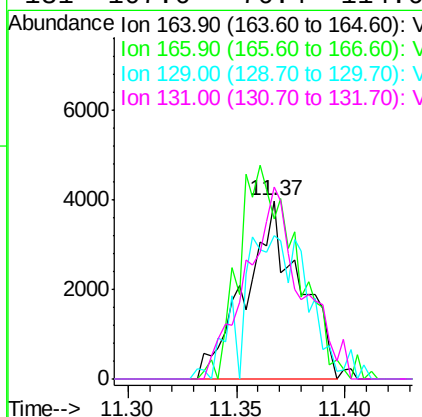
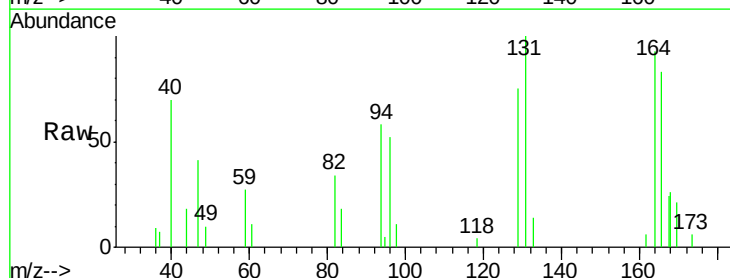
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

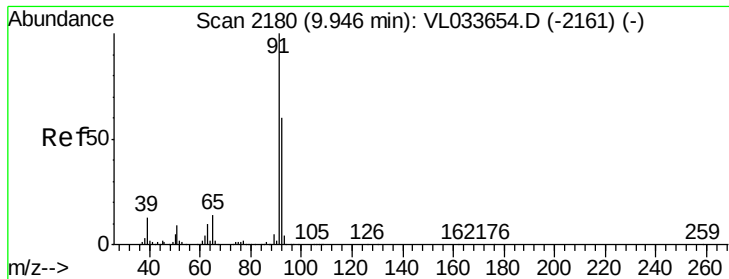
Tot Ion: 43 Resp: 9764
Ion Ratio Lower Upper
43 100
58 0.0 38.2 57.4#
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 0.106 ppbv m
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033681.D
Acq: 7 May 2019 14:17

Tgt Ion: 164 Resp: 6935
Ion Ratio Lower Upper
164 100
166 89.8 100.6 151.0#
129 80.6 81.0 121.6#
131 107.6 76.4 114.6





#53

Toluene

Concen: 0.071 ppbv m

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

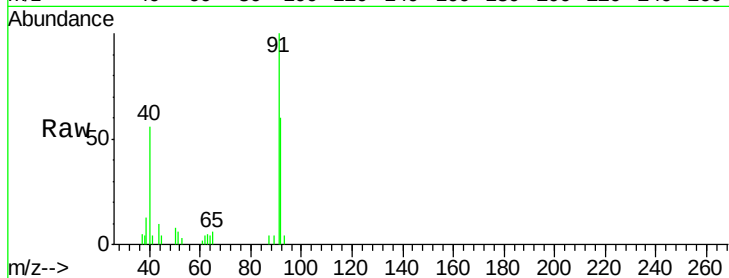
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 14063

Ion Ratio Lower Upper

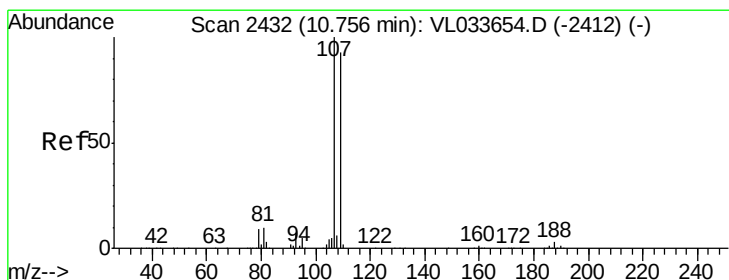
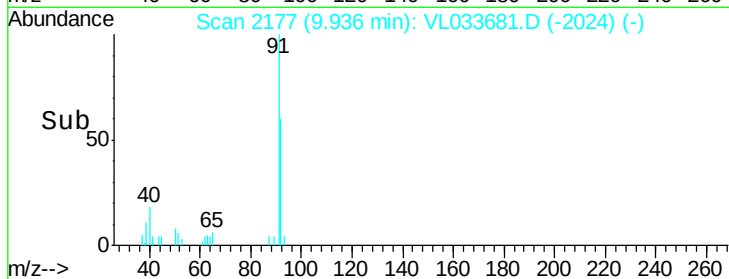
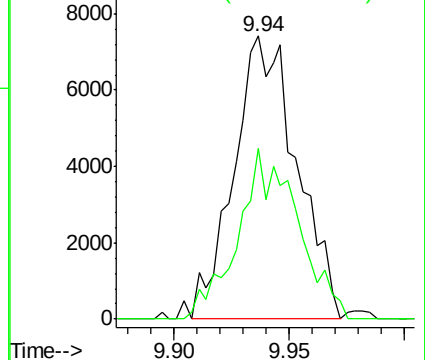
91 100

92 56.7 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.094 ppbv m

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033681.D

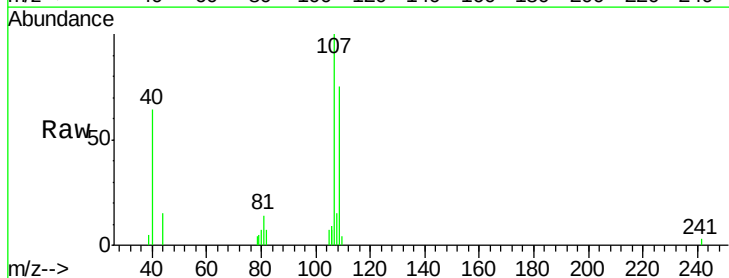
Acq: 7 May 2019 14:17

Tgt Ion:107 Resp: 11120

Ion Ratio Lower Upper

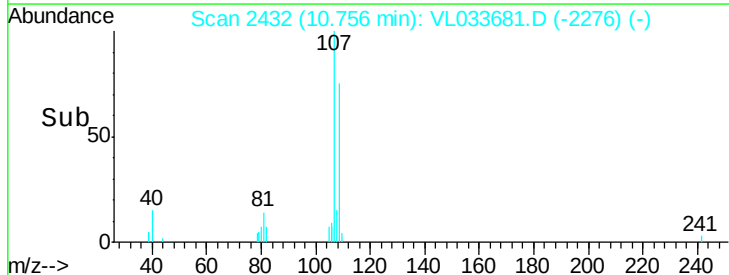
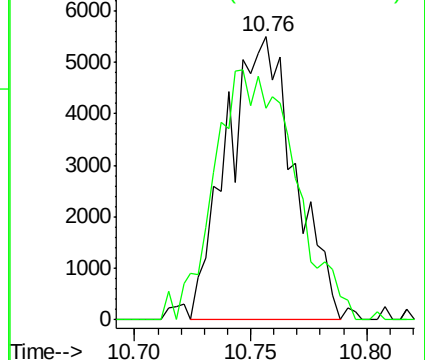
107 100

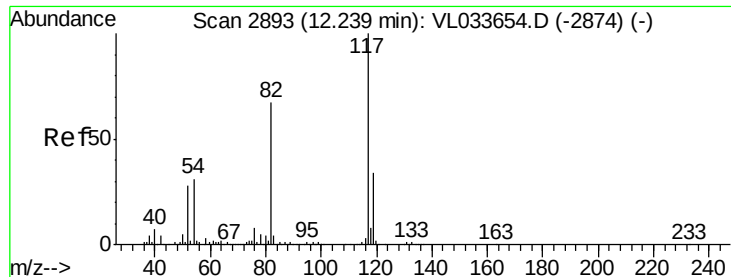
109 74.9 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

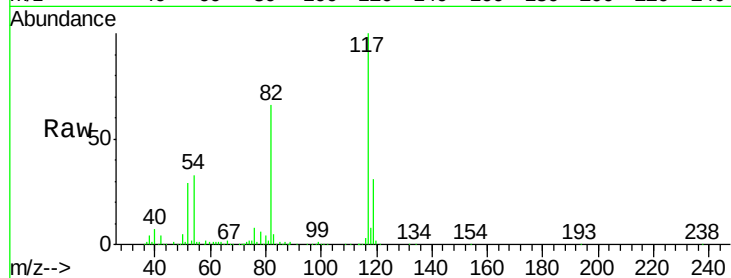
Tot Ion:117 Resp: 2061979

Ion Ratio Lower Upper

117 100

82 67.0 49.7 74.5

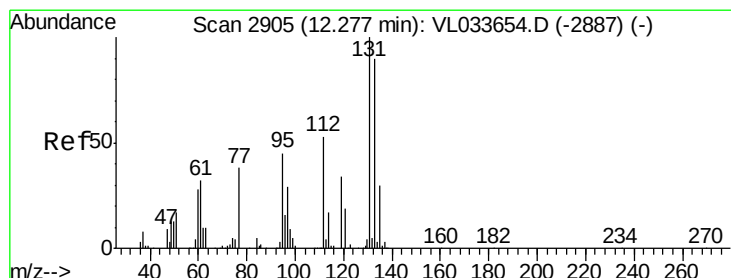
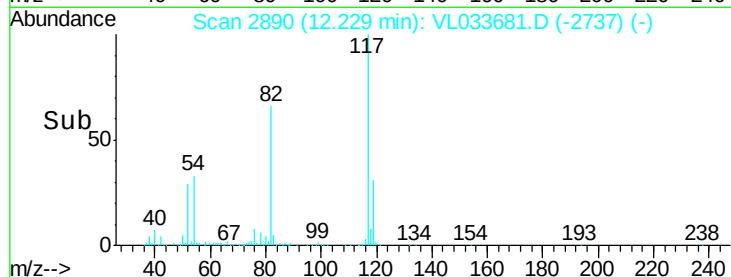
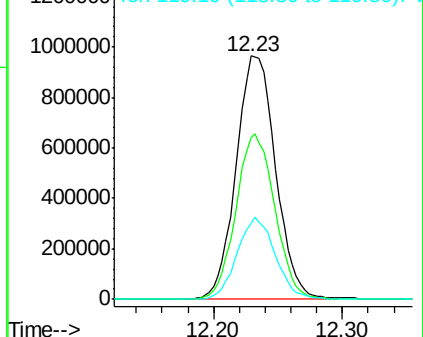
119 32.7 24.8 37.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.134 ppbv m

RT: 12.27 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

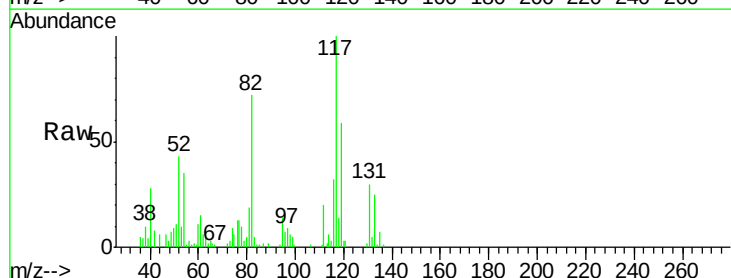
Tgt Ion:131 Resp: 12742

Ion Ratio Lower Upper

131 100

133 0.0 76.0 114.0#

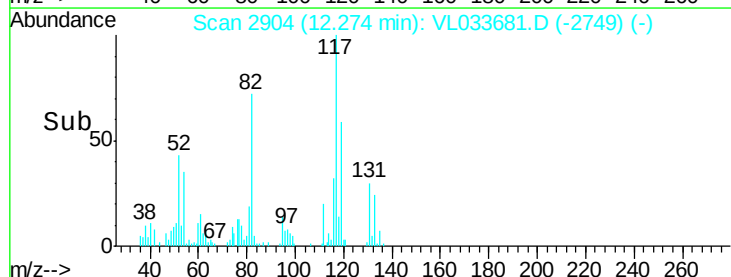
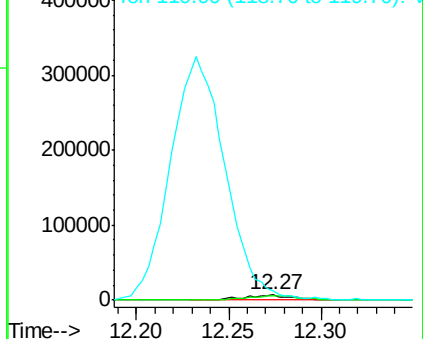
119 0.0 45.4 68.2#

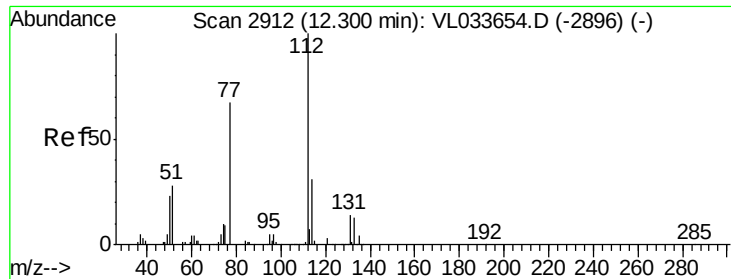


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.118 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

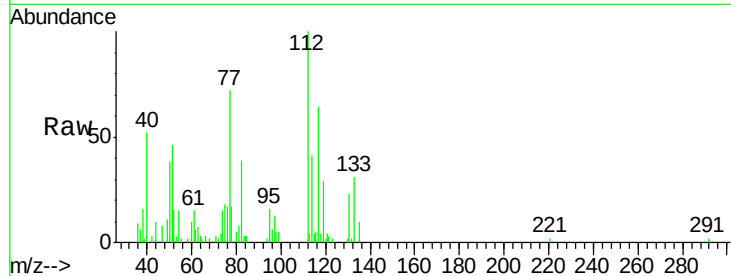
Tot Ion:112 Resp: 19987

Ion Ratio Lower Upper

112 100

77 52.5 54.4 81.6#

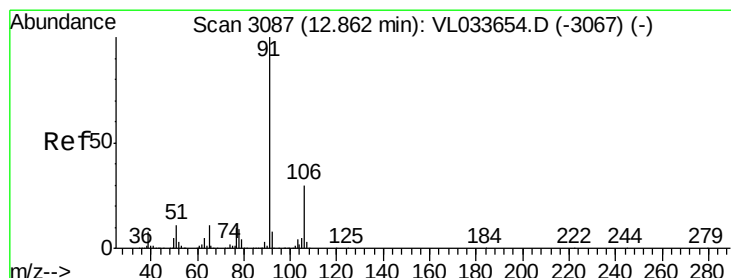
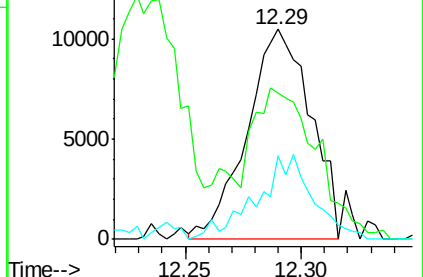
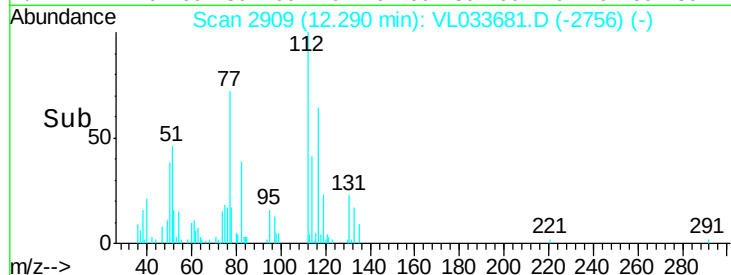
114 43.8 28.2 34.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.073 ppbv m

RT: 12.85 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL033681.D

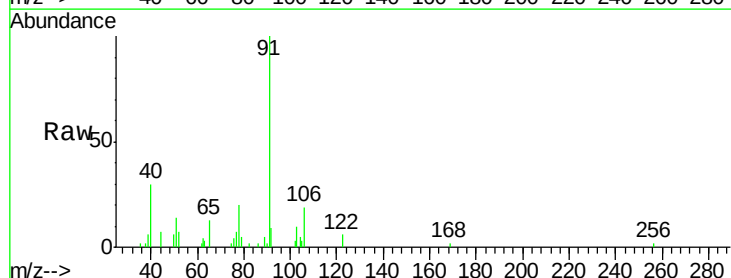
Acq: 7 May 2019 14:17

Tgt Ion: 91 Resp: 19557

Ion Ratio Lower Upper

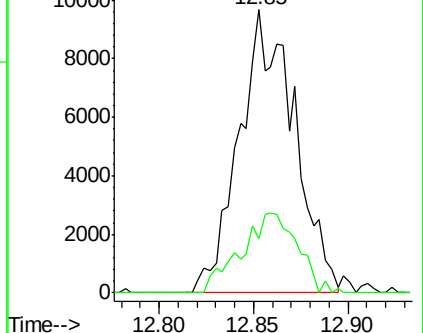
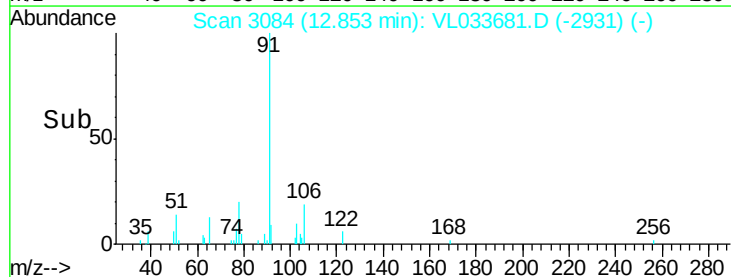
91 100

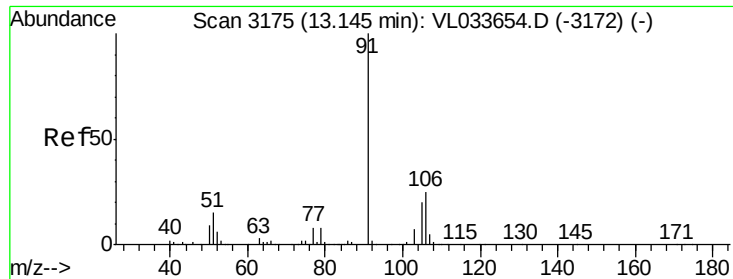
106 19.1 23.7 35.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.131 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. 0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

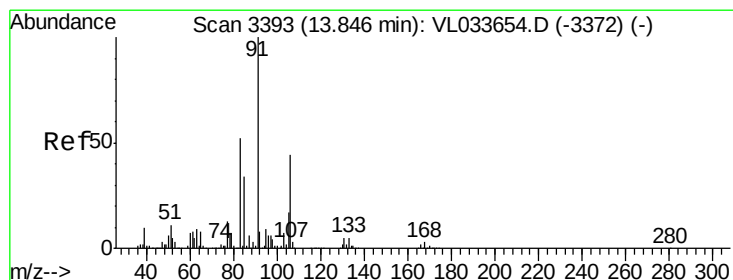
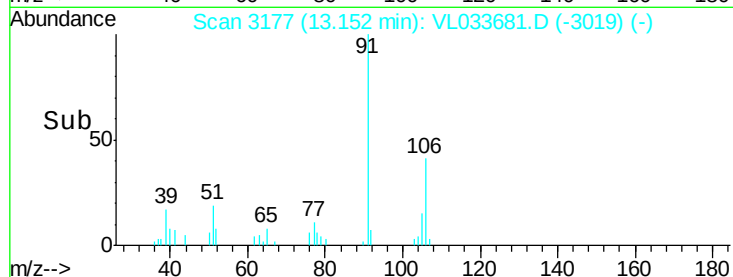
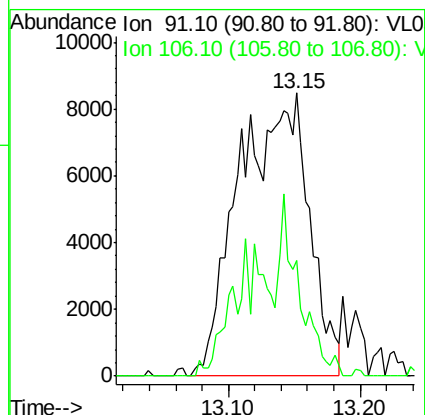
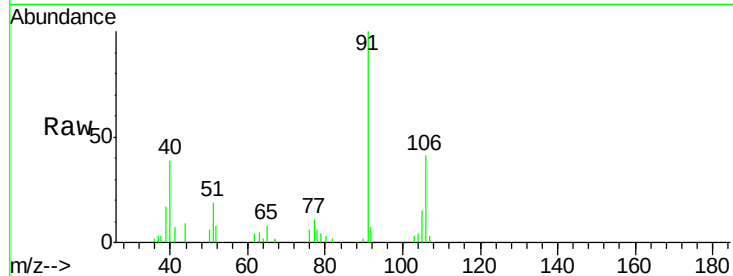
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 31070

Ion Ratio Lower Upper

91 100

106 0.0 36.2 54.2#



#60

o-Xylene

Concen: 0.061 ppbv m

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL033681.D

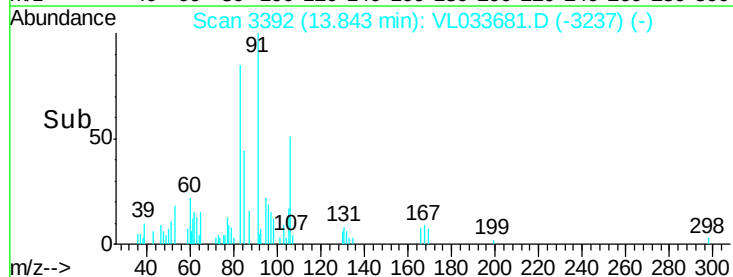
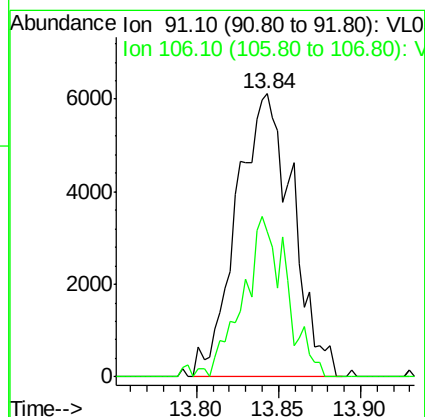
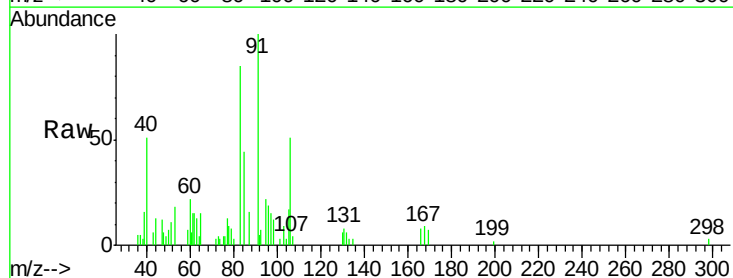
Acq: 7 May 2019 14:17

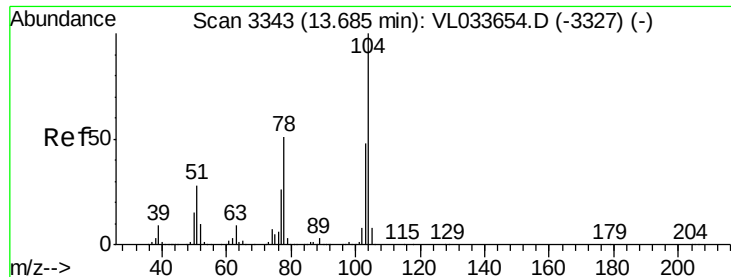
Tgt Ion: 91 Resp: 14542

Ion Ratio Lower Upper

91 100

106 44.1 21.7 65.1





#61

Stvrene

Concen: 0.053 ppbv m

RT: 13.68 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

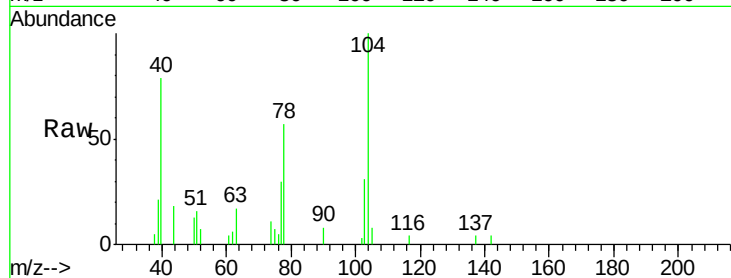
Tot Ion:104 Resp: 8484

Ion Ratio Lower Upper

104 100

78 0.0 43.0 64.6#

103 0.0 38.1 57.1#

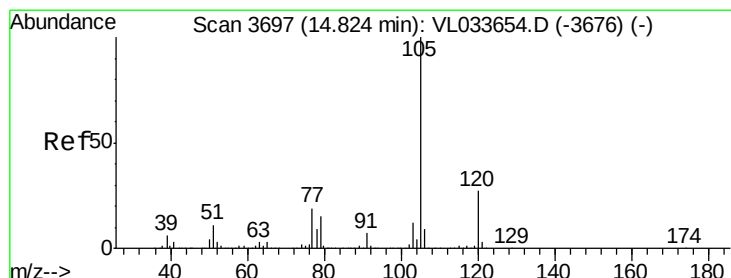
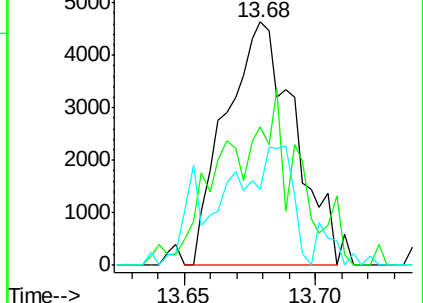
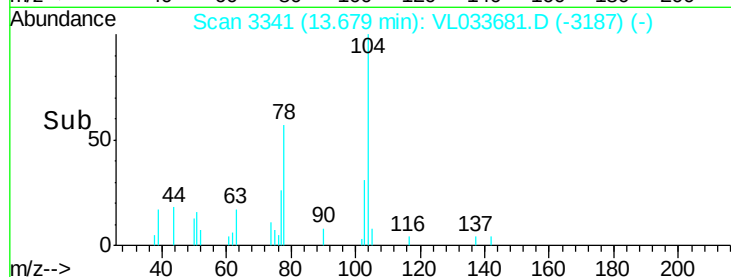


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V

Time-->



#62

Isopropylbenzene

Concen: 0.068 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033681.D

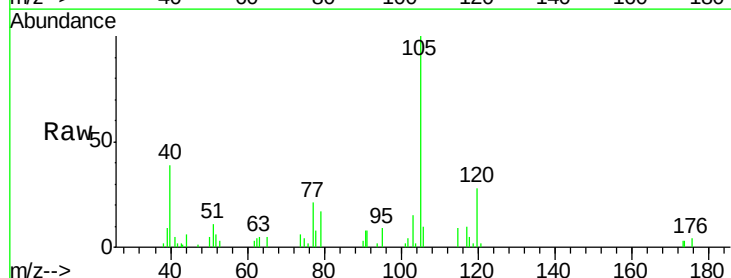
Acq: 7 May 2019 14:17

Tgt Ion:105 Resp: 22283

Ion Ratio Lower Upper

105 100

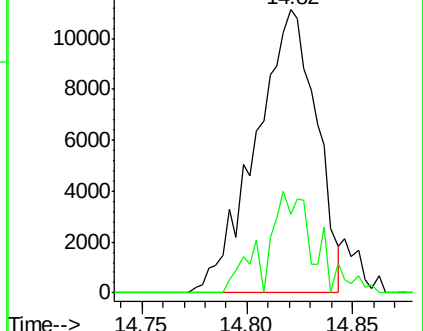
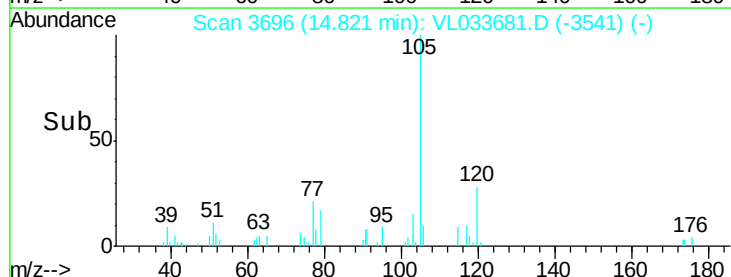
120 29.2 20.5 30.7

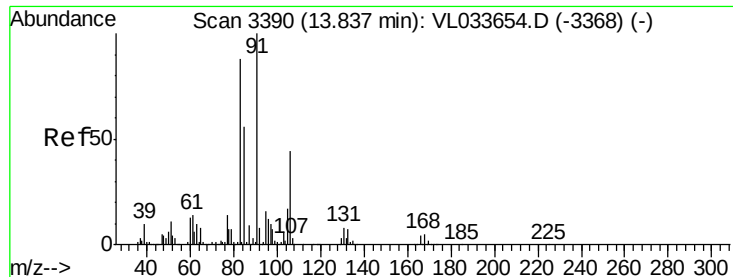


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 0.117 ppbv m

RT: 13.83 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

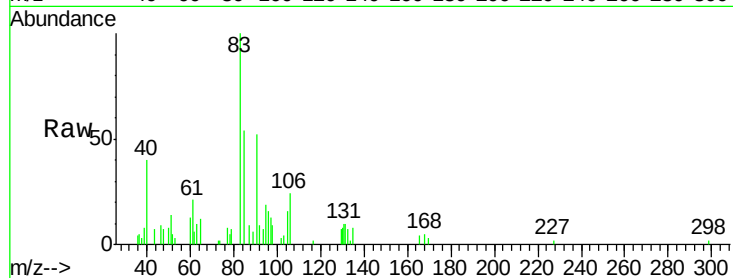
Tot Ion: 83 Resp: 20438

Ion Ratio Lower Upper

83 100

131 12.6 4.8 14.3

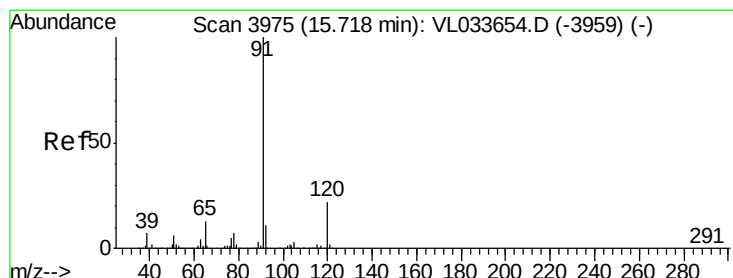
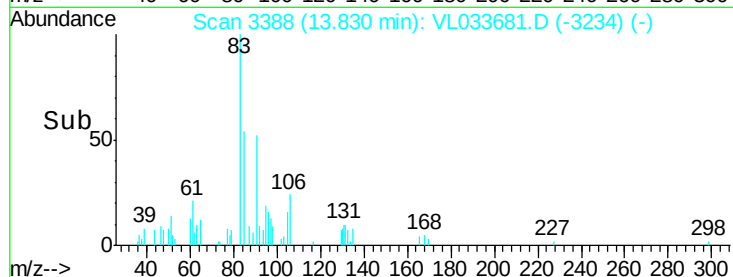
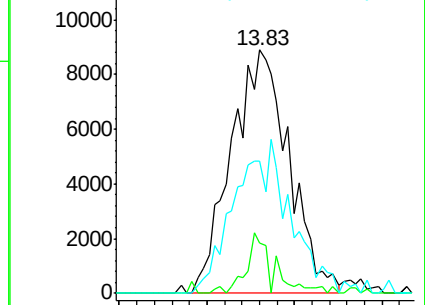
85 61.8 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.056 ppbv m

RT: 15.71 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VL033681.D

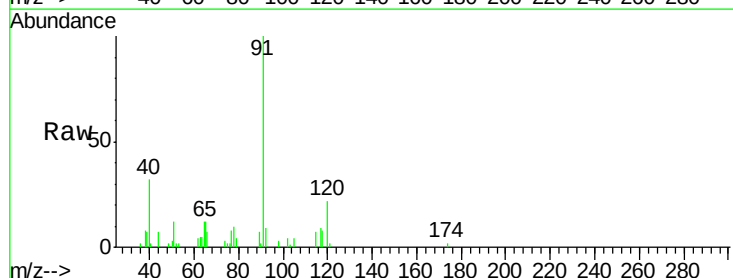
Acq: 7 May 2019 14:17

Tgt Ion:120 Resp: 4695

Ion Ratio Lower Upper

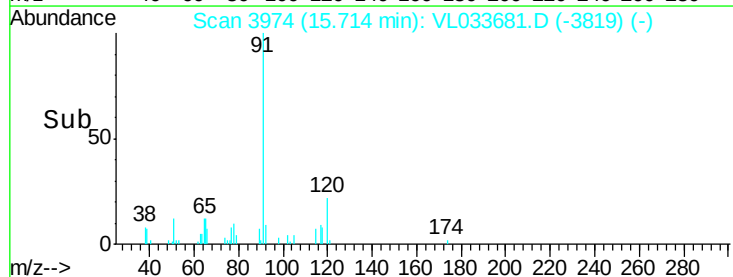
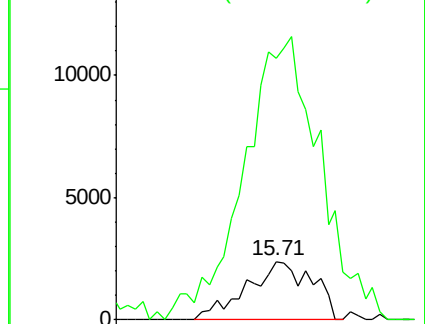
120 100

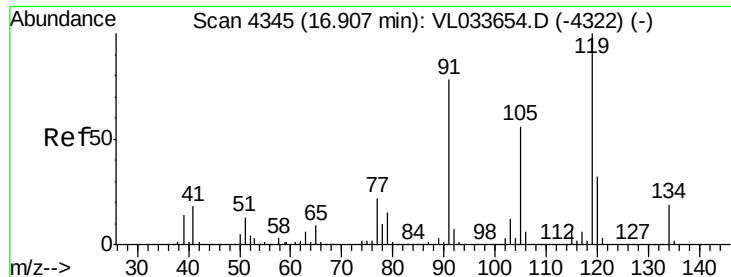
91 0.0 379.0 568.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.048 ppbv m

RT: 16.92 min Scan# 4348

Delta R.T. 0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

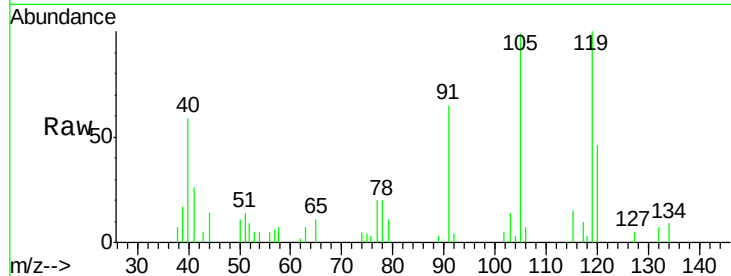
Tot Ion:119 Resp: 14449

Ion Ratio Lower Upper

119 100

91 0.0 65.9 98.9#

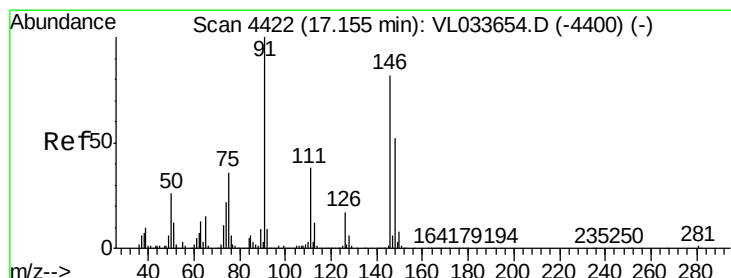
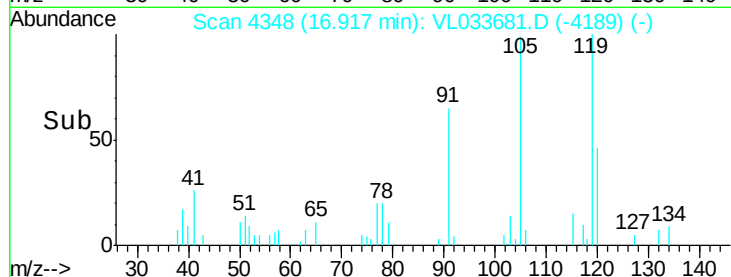
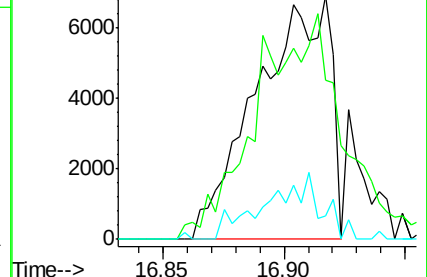
134 0.0 15.5 23.3#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.092 ppbv m

RT: 17.16 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

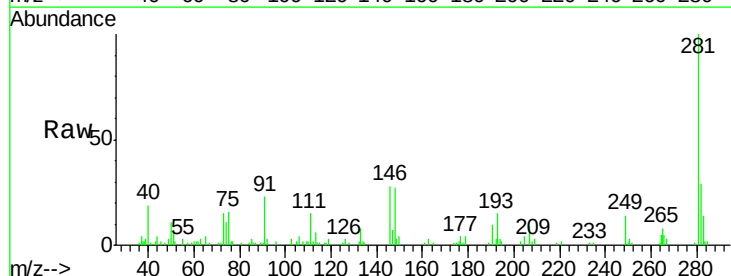
Tgt Ion: 91 Resp: 12514

Ion Ratio Lower Upper

91 100

126 11.5 13.4 20.2#

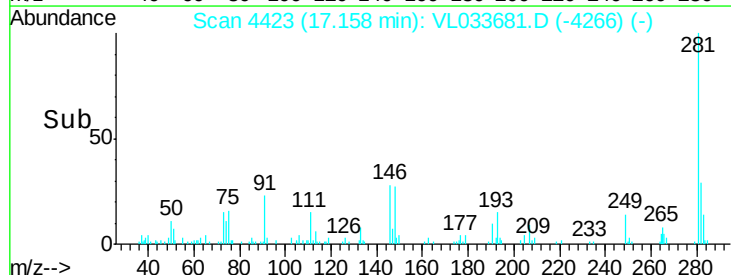
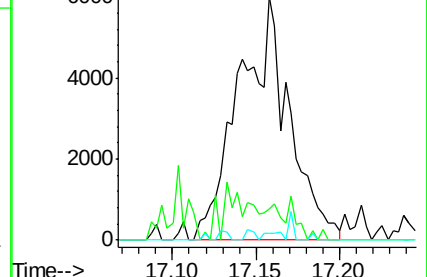
128 0.9 4.4 6.6#

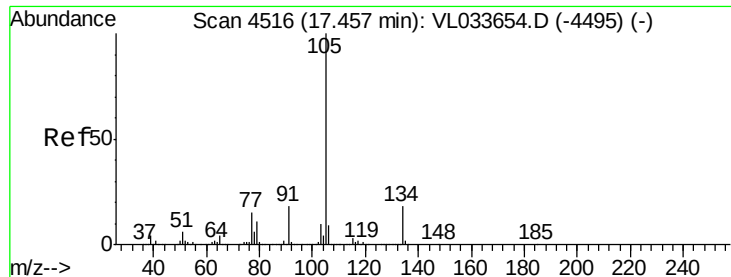


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.064 ppbv m

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

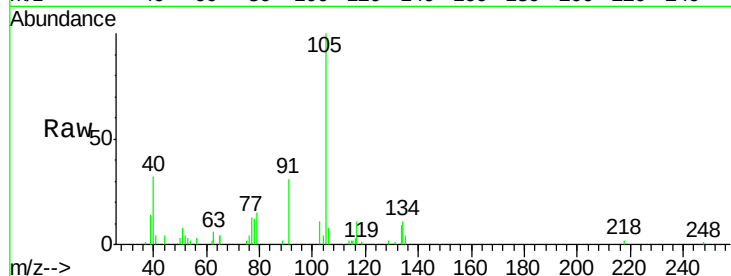
LOD-MDL-AIR-01-QT2-2019

Tot Ion:105 Resp: 26868

Ion Ratio Lower Upper

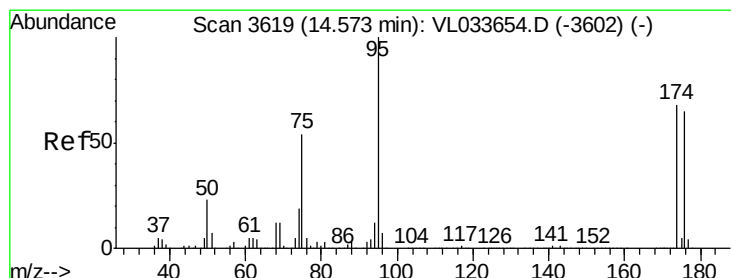
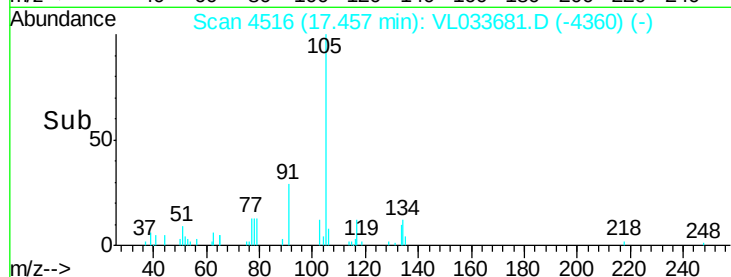
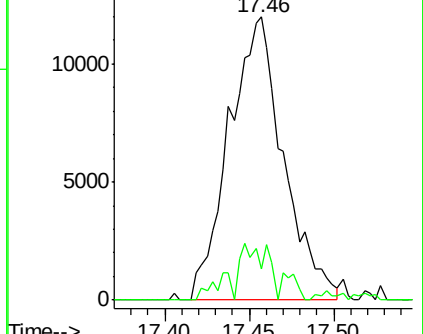
105 100

134 15.7 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.030 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

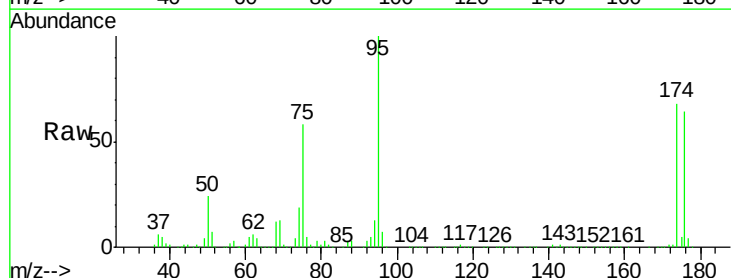
Tgt Ion: 95 Resp: 1695254

Ion Ratio Lower Upper

95 100

174 66.5 54.0 81.0

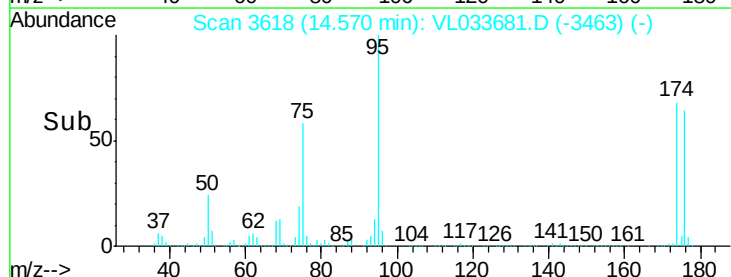
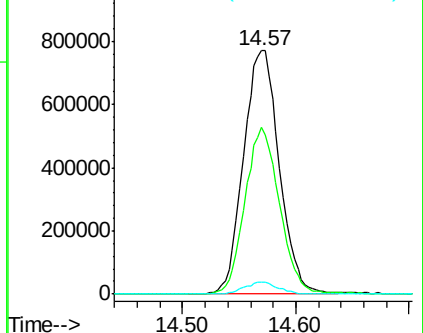
175 4.8 3.8 5.8

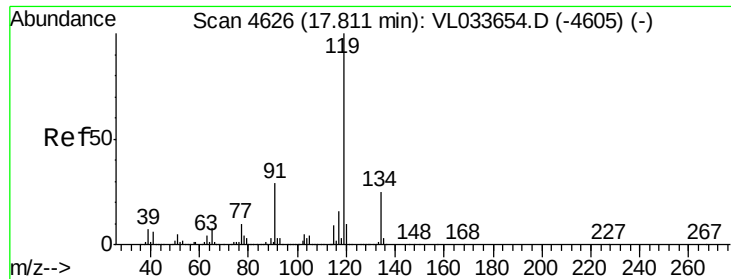


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.055 ppbv m

RT: 17.81 min Scan# 4627

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

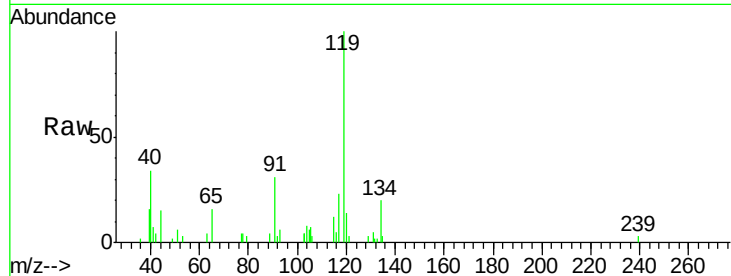
Tot Ion:119 Resp: 18907

Ion Ratio Lower Upper

119 100

134 8.2 20.2 30.2#

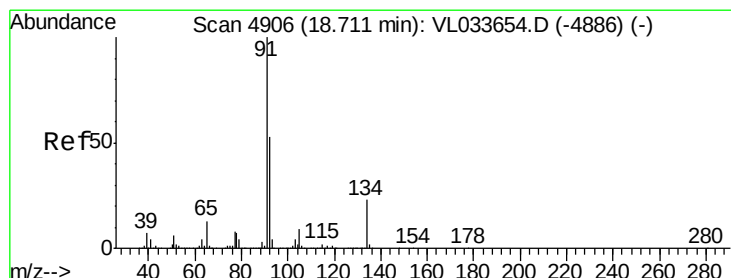
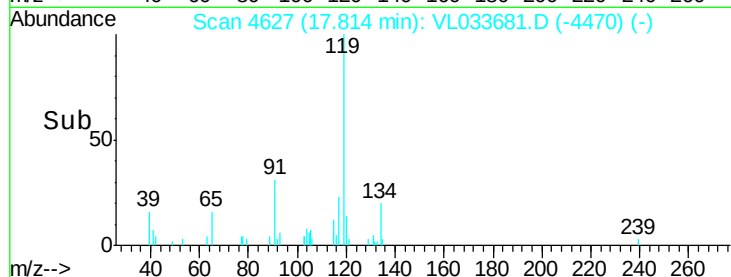
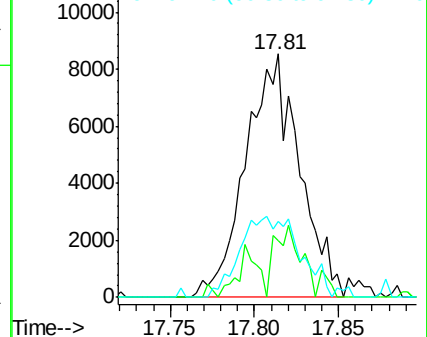
91 0.0 23.4 35.2#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.065 ppbv m

RT: 18.71 min Scan# 4906

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

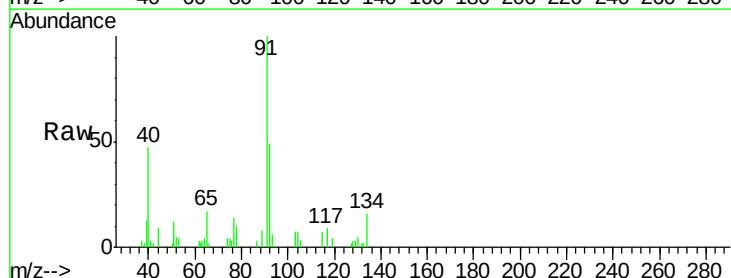
Tgt Ion: 91 Resp: 23837

Ion Ratio Lower Upper

91 100

92 0.0 42.5 63.7#

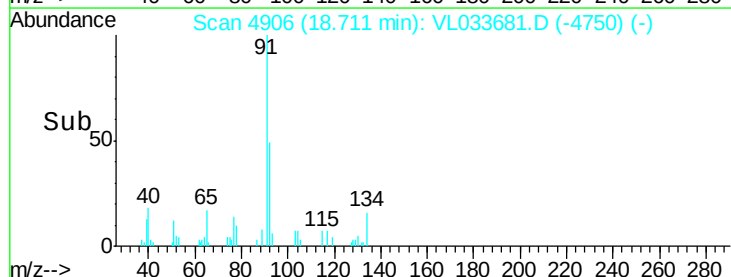
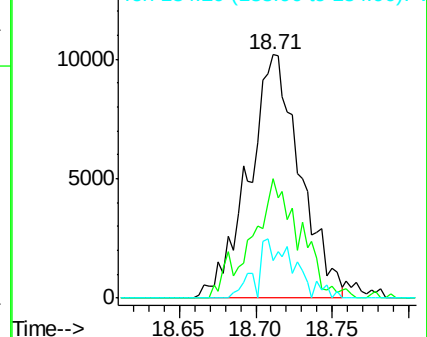
134 0.0 18.0 27.0#

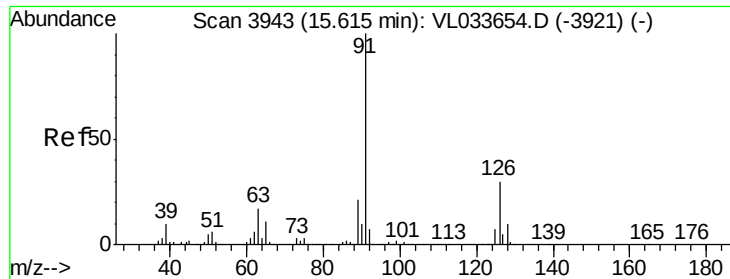


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

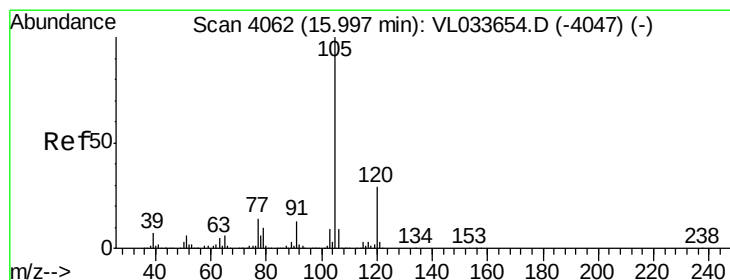
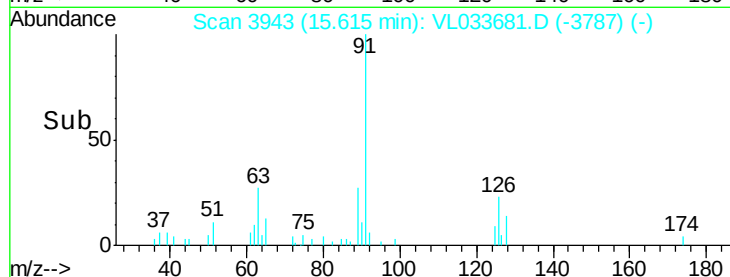
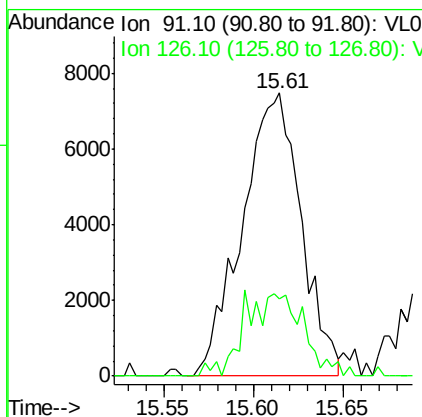
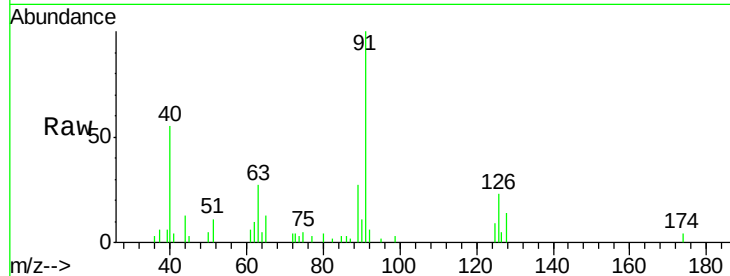




#71
 2-Chlorotoluene
 Concen: 0.071 ppbv m
 RT: 15.61 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

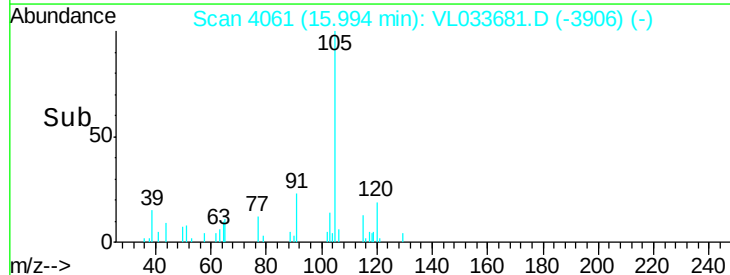
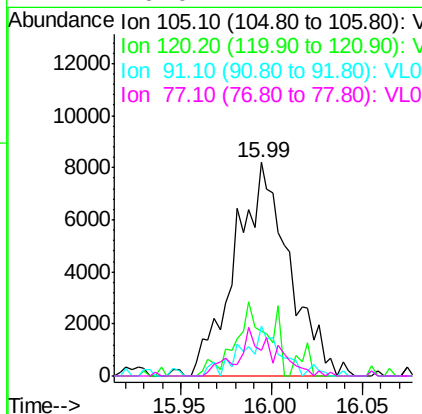
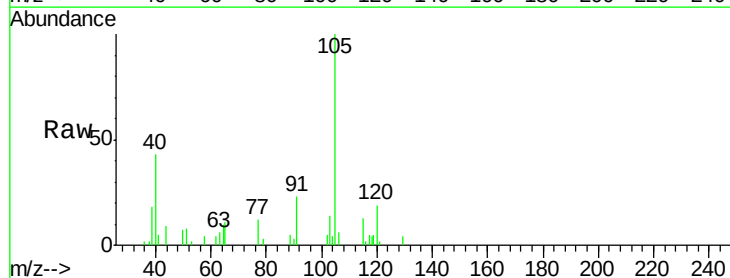
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

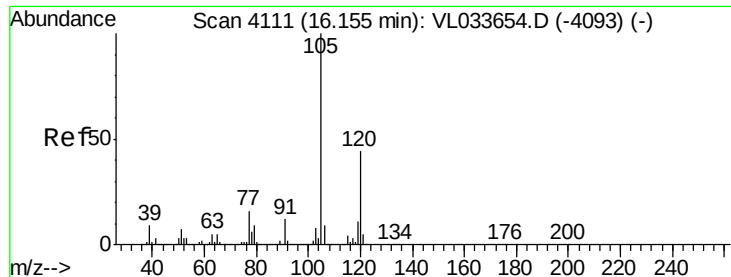
Tot Ion: 91 Resp: 17066
 Ion Ratio Lower Upper
 91 100
 126 29.7 12.0 47.8



#72
 4-Ethyltoluene
 Concen: 0.060 ppbv m
 RT: 15.99 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion: 105 Resp: 16857
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.0 34.6#
 91 0.0 10.5 15.7#
 77 0.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.056 ppbv m

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

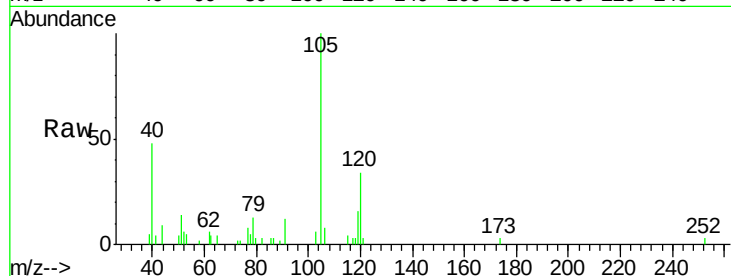
LOD-MDL-AIR-01-QT2-2019

Tot Ion:105 Resp: 15289

Ion Ratio Lower Upper

105 100

120 34.2 35.5 53.3#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

8000

6000

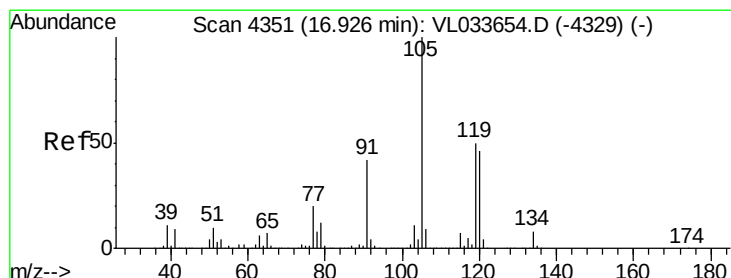
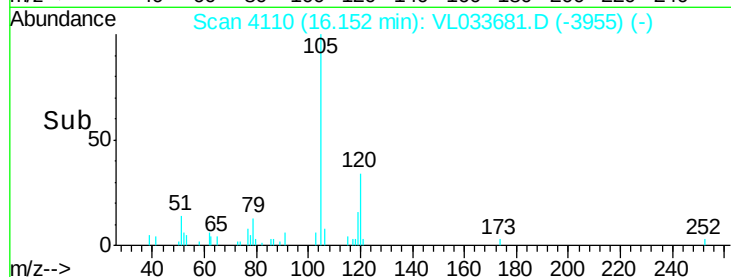
4000

2000

0

Time-->

16.10 16.15 16.20



#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Tgt Ion:105 Resp: 15880

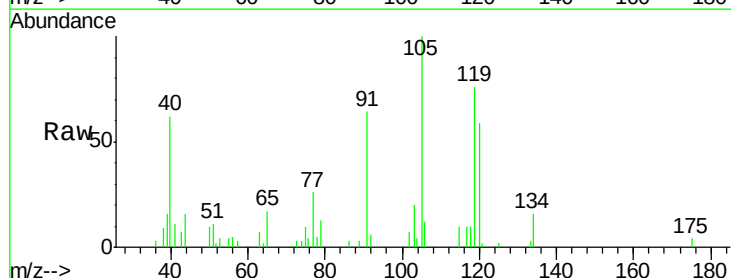
Ion Ratio Lower Upper

105 100

120 55.2 36.5 54.7#

91 57.8 33.7 50.5#

77 26.0 16.3 24.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10000

8000

6000

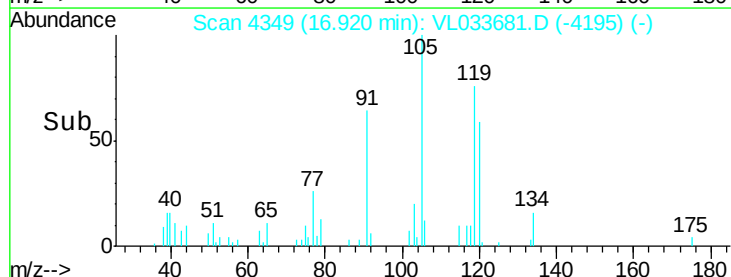
4000

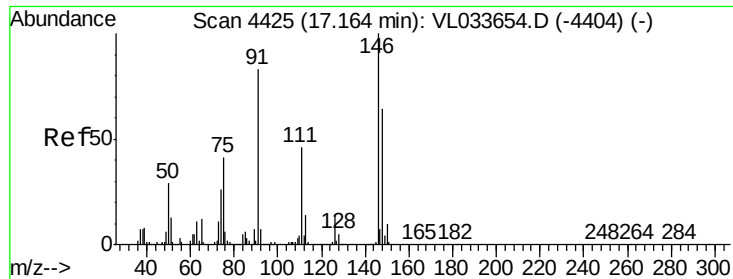
2000

0

Time-->

16.85 16.90 16.95

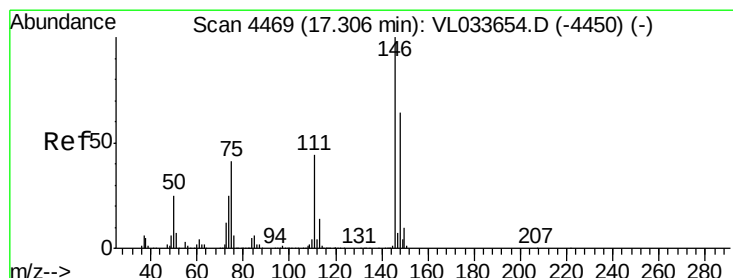
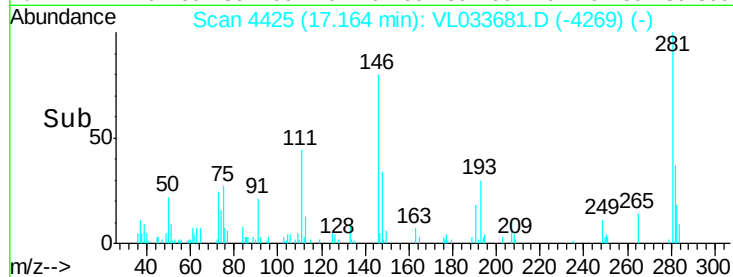
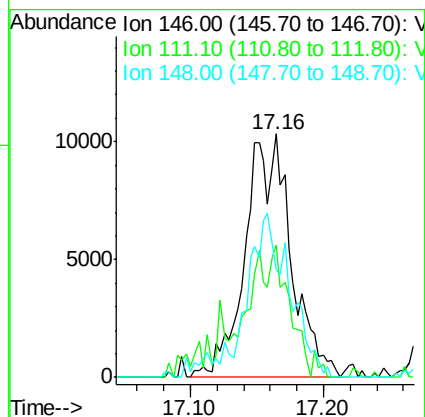
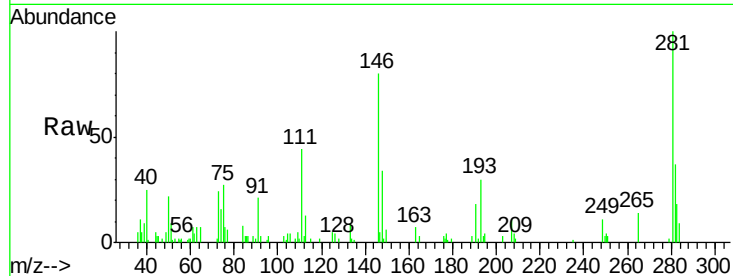




#75
 1,3-Dichlorobenzene
 Concen: 0.135 ppbv m
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

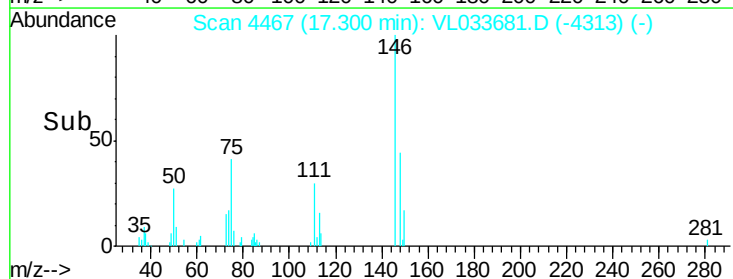
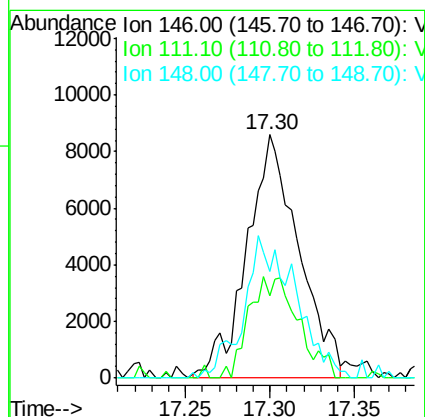
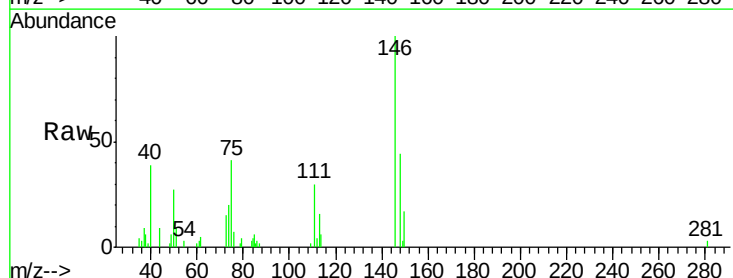
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

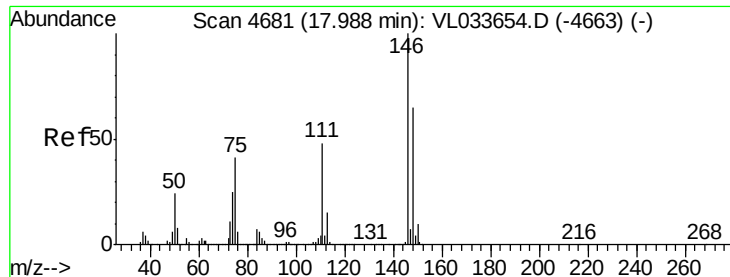
Tot Ion:146 Resp: 24686
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.7#
 148 65.8 31.8 95.4



#76
 1,4-Dichlorobenzene
 Concen: 0.106 ppbv m
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion:146 Resp: 18347
 Ion Ratio Lower Upper
 146 100
 111 40.1 22.0 66.0
 148 58.7 32.1 96.5

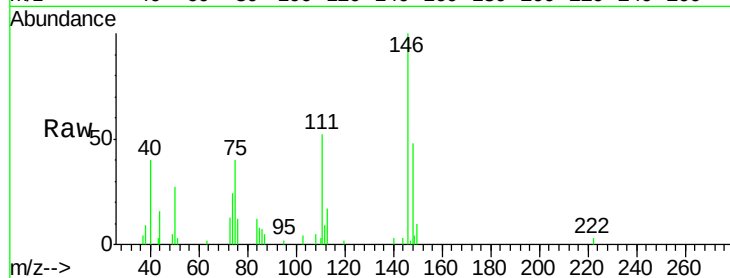




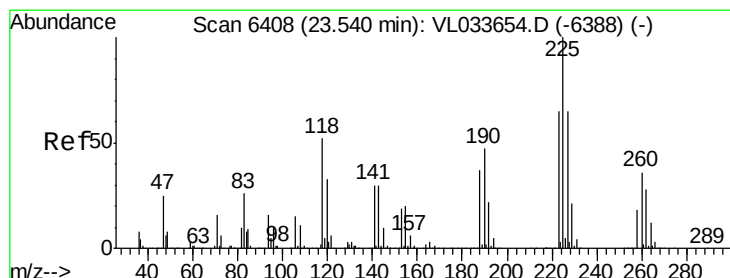
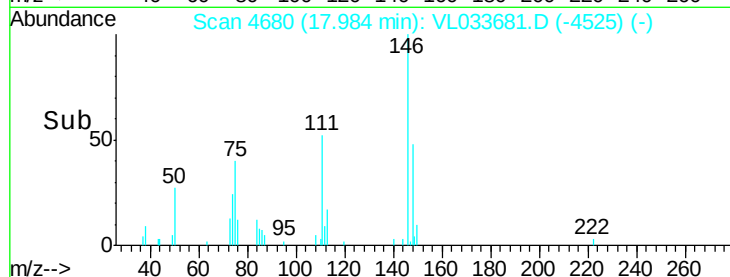
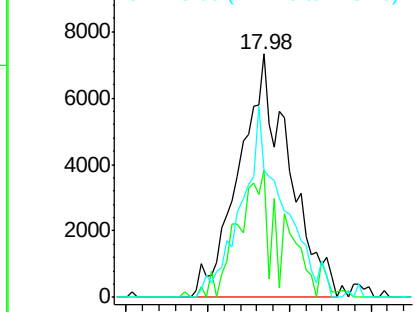
#77
 1,2-Dichlorobenzene
 Concen: 0.092 ppbv m
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.5	23.4	70.0
148	65.2	31.9	95.9

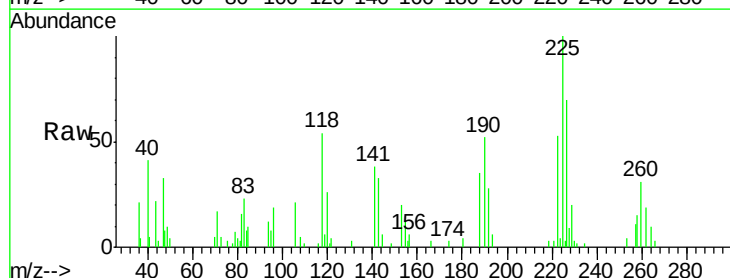


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

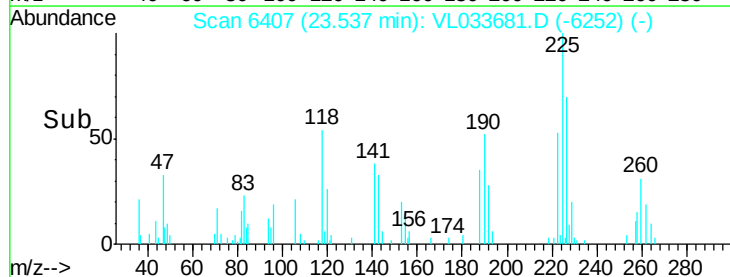
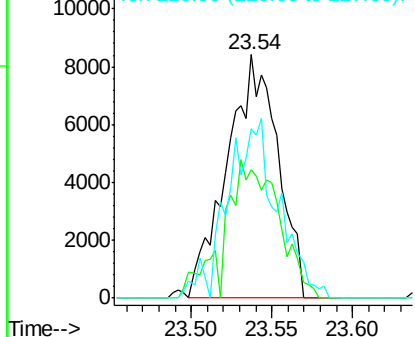


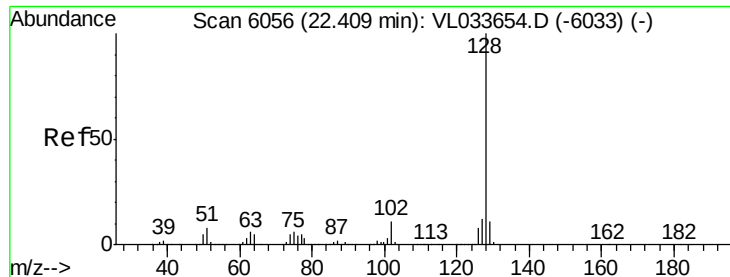
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.138 ppbv m
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL033681.D
 Acq: 7 May 2019 14:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	50.7	76.1
227	0.0	51.4	77.2#



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.067 ppbv m

RT: 22.42 min Scan# 6058

Delta R.T. 0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

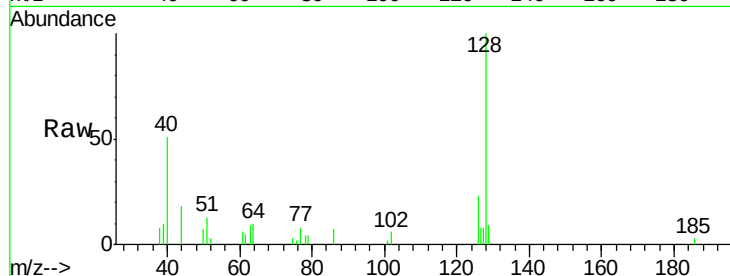
Tot Ion:128 Resp: 18629

Ion Ratio Lower Upper

128 100

127 7.9 9.8 14.8#

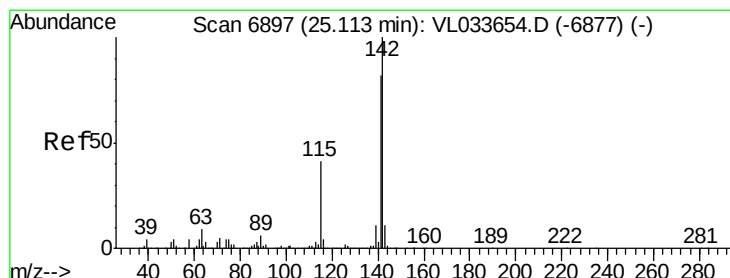
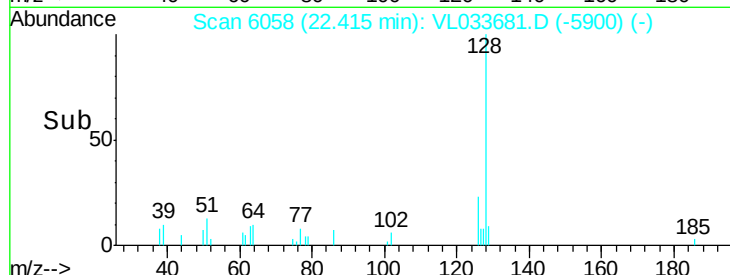
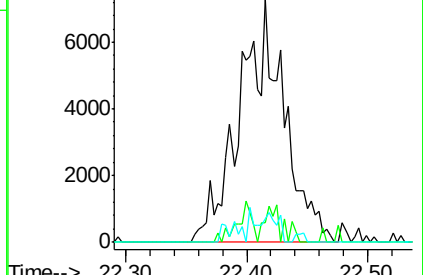
129 9.5 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.054 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

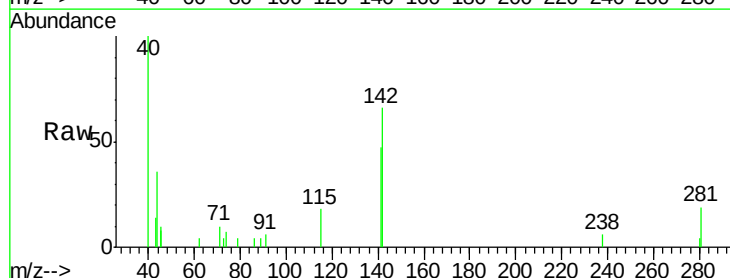
Tgt Ion:142 Resp: 5691

Ion Ratio Lower Upper

142 100

141 87.6 67.9 101.9

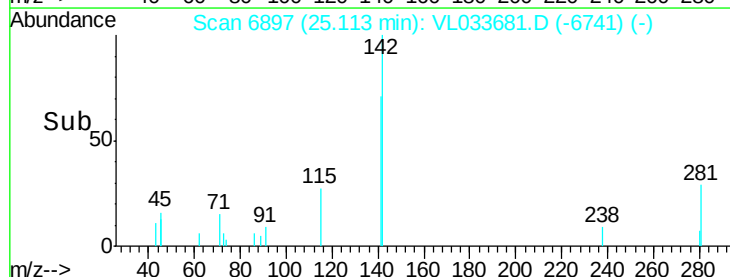
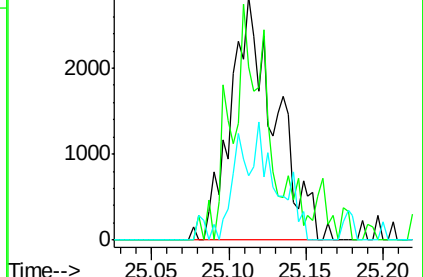
115 42.1 34.2 51.4

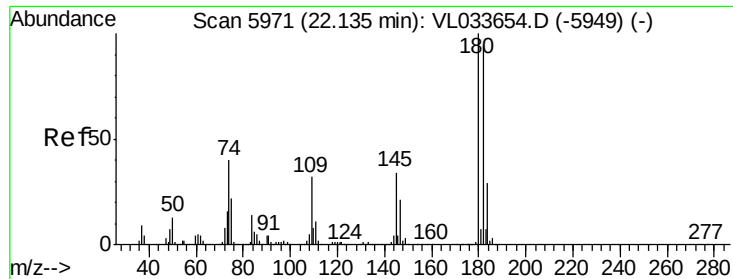


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.091 ppbv m

RT: 22.13 min Scan# 5968

Delta R.T. -0.01 min

Lab File: VL033681.D

Acq: 7 May 2019 14:17

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:180 Resp: 14562

Ion Ratio Lower Upper

180 100

182 0.0 77.4 116.0#

184 0.0 24.6 36.8#

