

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035000.D
 Acq On : 12 May 2020 23:35
 Operator : SY/AP
 Sample : L2567-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DL

Quant Time: May 13 01:14:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	974258	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2278219	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2090278	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1731789	10.24	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

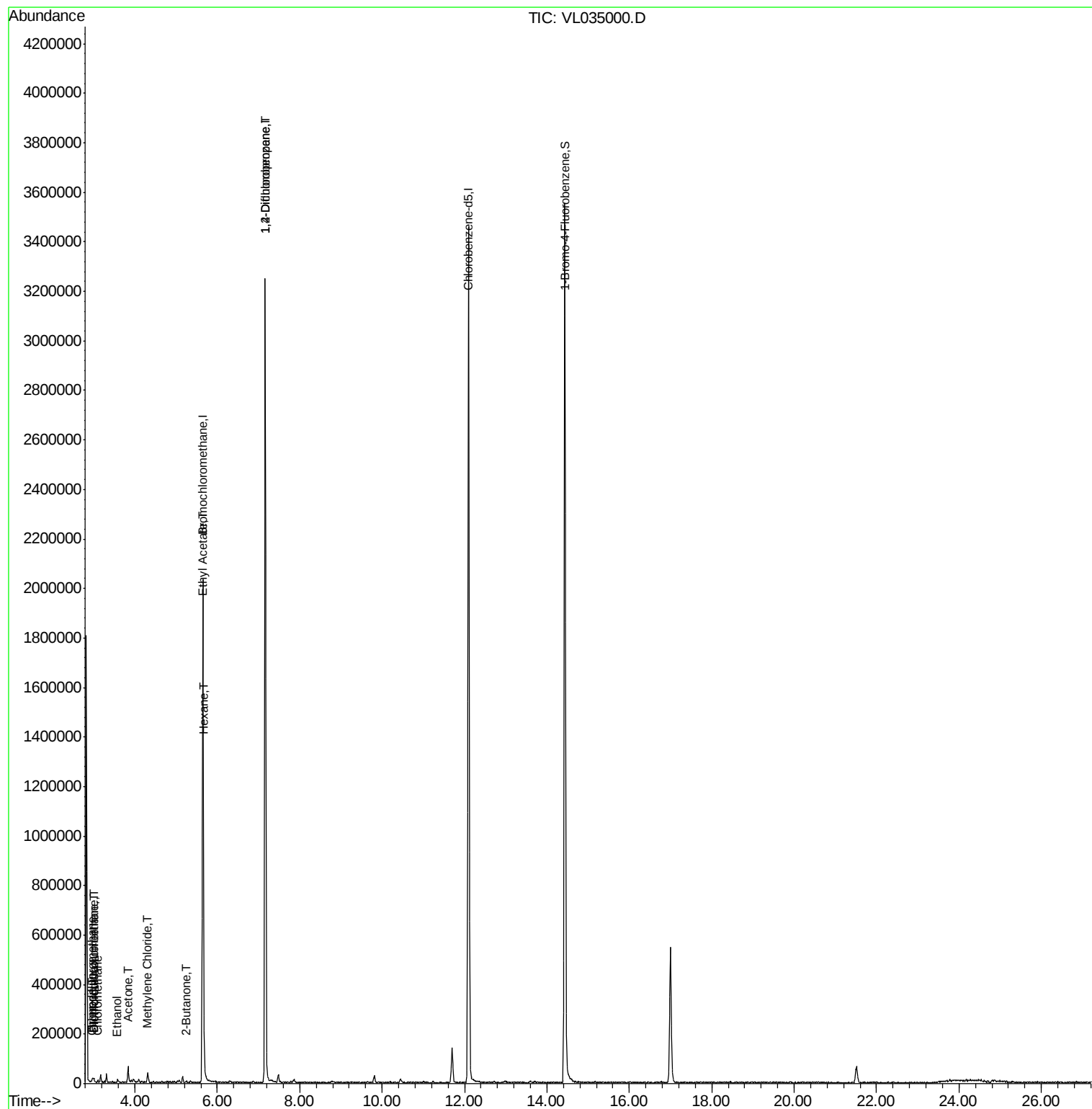
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	8426	0.061	ppbv #	81
3) Chlorodifluoromethane	2.94	51	4392	0.039	ppbv	98
4) Chloromethane	3.10	50	2177	0.034	ppbv #	44
8) Dichlorotetrafluoroethane	3.01	85	8426	0.059	ppbv #	21
9) Propene	2.97	41	1277	0.026	ppbv #	1
13) Ethanol	3.56	45	774	0.049	ppbv #	39
15) Acetone	3.84	43	45802	0.356	ppbv #	87
20) Methylene Chloride	4.31	84	3447	0.081	ppbv #	78
25) Ethyl Acetate	5.66	43	24832	0.115	ppbv #	79
26) Hexane	5.67	57	31180	0.332	ppbv #	41
34) 2-Butanone	5.25	43	5625	0.040	ppbv #	73
39) 1,2-Dichloropropane	7.17	63	615872	8.179	ppbv #	24

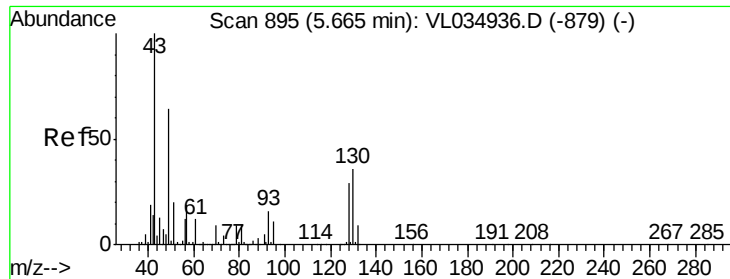
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
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Response via : Initial Calibration

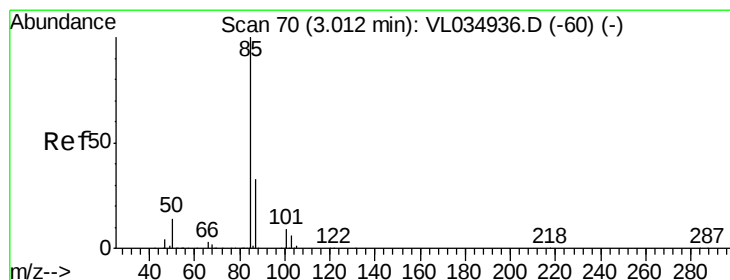
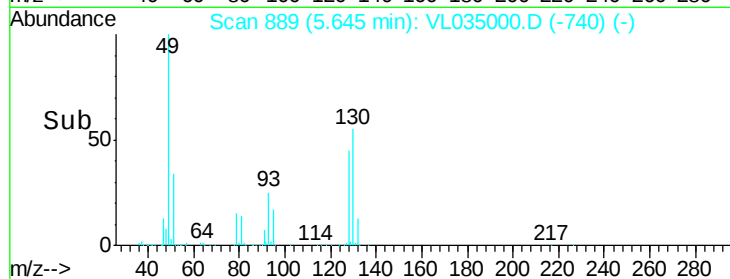
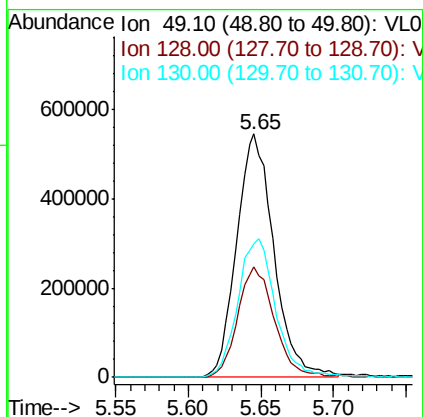
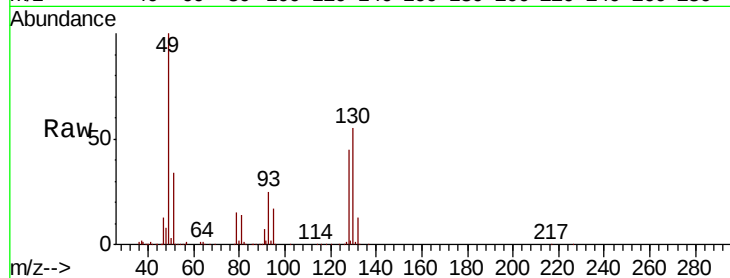




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 889
 Delta R.T. -0.02 min
 Lab File: VL035000.D
 Acq: 12 May 2020 23:35

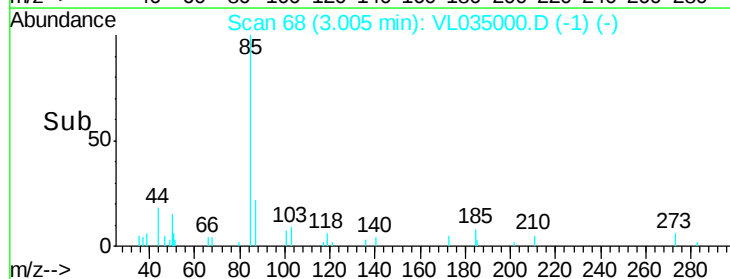
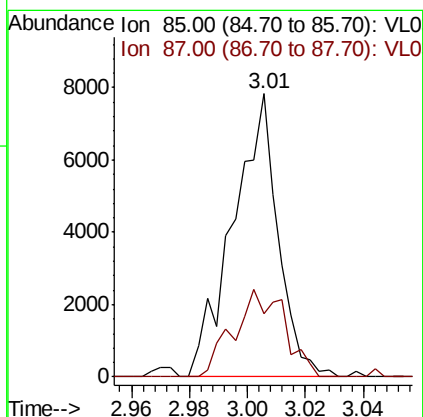
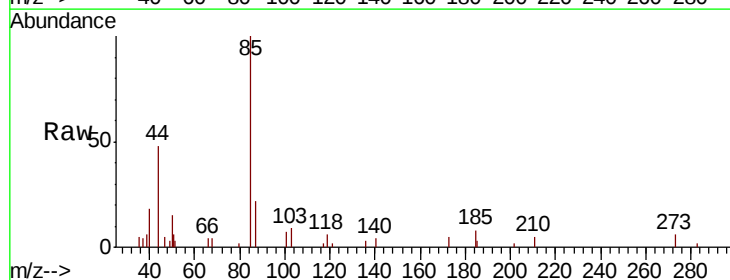
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DL

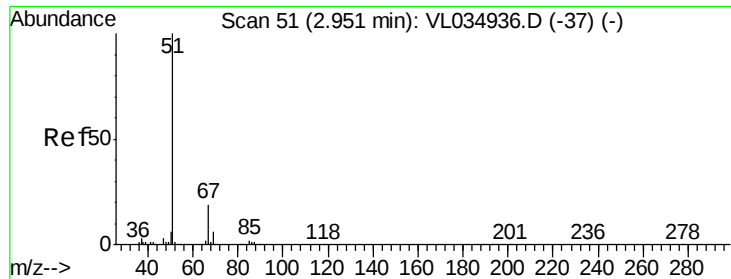
Tot Ion	Ratio	Lower	Upper
49	100		
128	45.1	22.1	66.5
130	58.9	29.1	87.3



#2
 Dichlorodifluoromethane
 Concen: 0.061 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. -0.01 min
 Lab File: VL035000.D
 Acq: 12 May 2020 23:35

Tgt Ion	Ratio	Lower	Upper
85	100		
87	22.2	26.2	39.2





#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.01 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Instrument :

MSVOA_L

ClientSampleId :

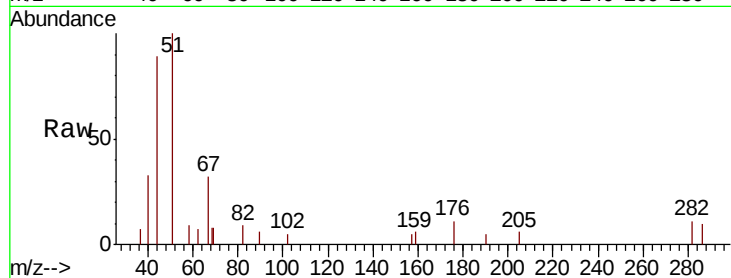
AA-1DL

Tot Ion: 51 Resp: 4392

Ion Ratio Lower Upper

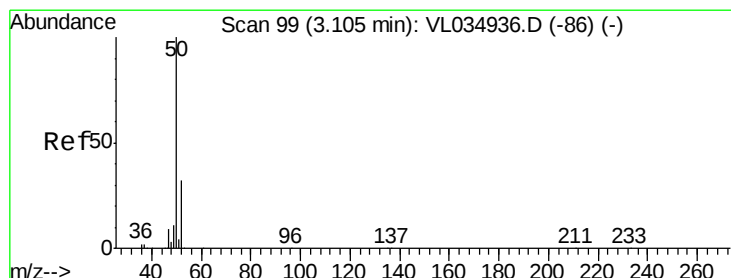
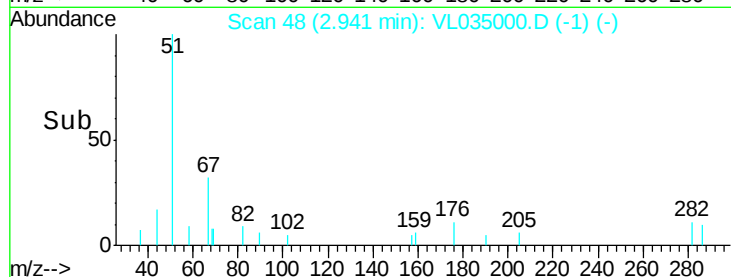
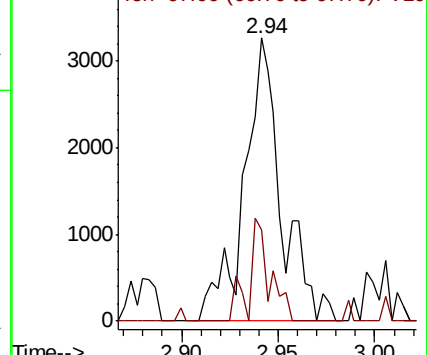
51 100

67 19.9 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035000.D

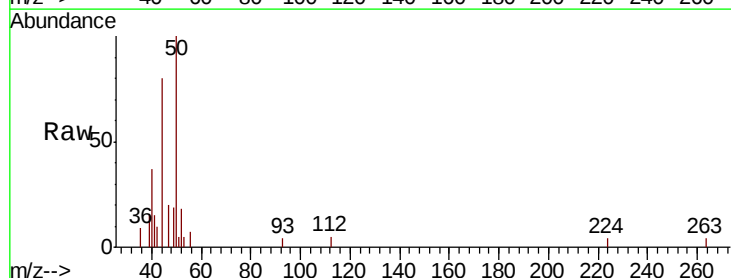
Acq: 12 May 2020 23:35

Tgt Ion: 50 Resp: 2177

Ion Ratio Lower Upper

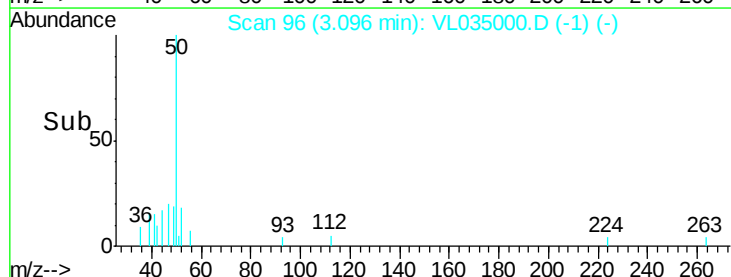
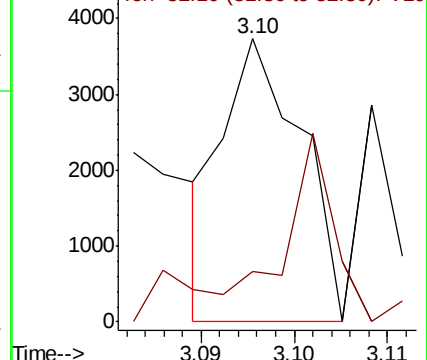
50 100

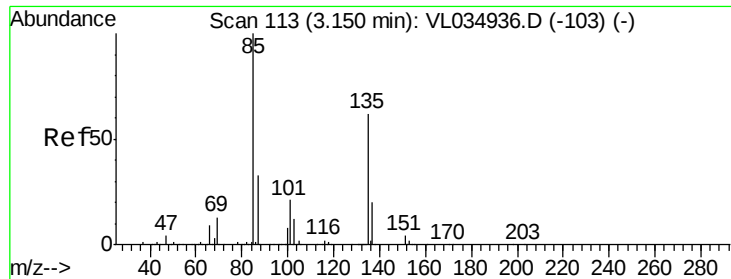
52 0.5 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.059 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.14 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Instrument :

MSVOA_L

ClientSampleId :

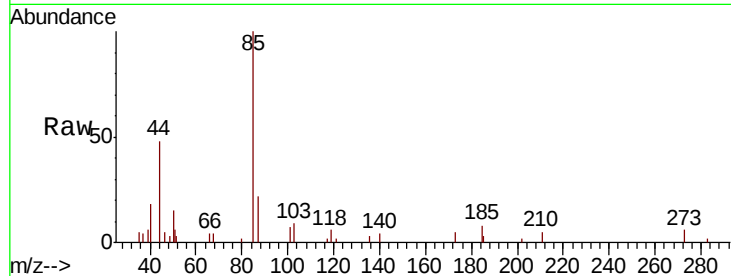
AA-1DL

Tot Ion: 85 Resp: 8426

Ion Ratio Lower Upper

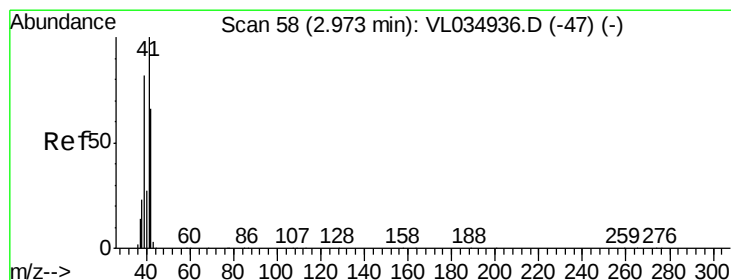
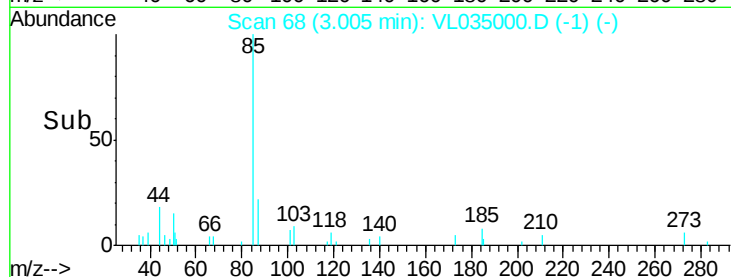
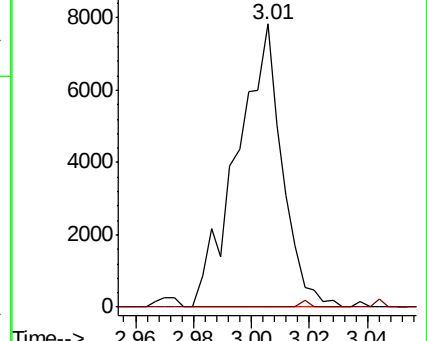
85 100

135 1.8 50.9 76.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.026 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL035000.D

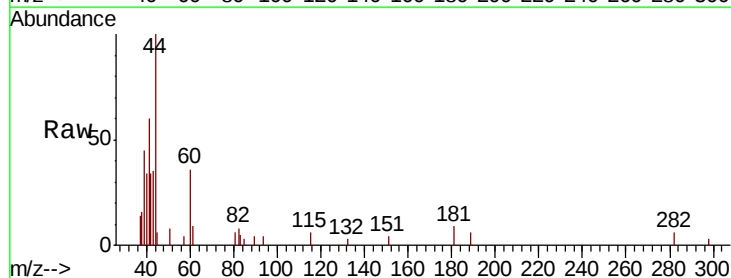
Acq: 12 May 2020 23:35

Tgt Ion: 41 Resp: 1277

Ion Ratio Lower Upper

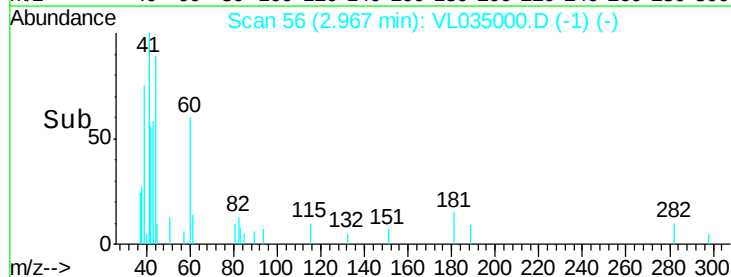
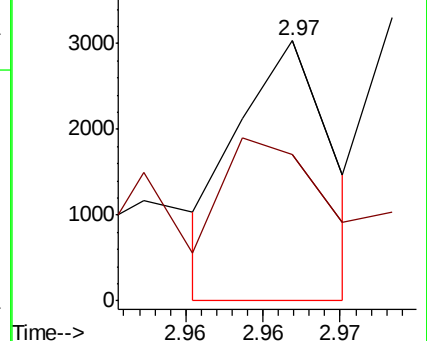
41 100

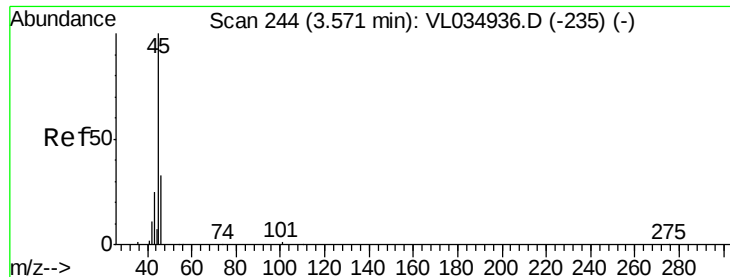
42 201.1 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.049 ppbv

RT: 3.56 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Instrument :

MSVOA_L

ClientSampleId :

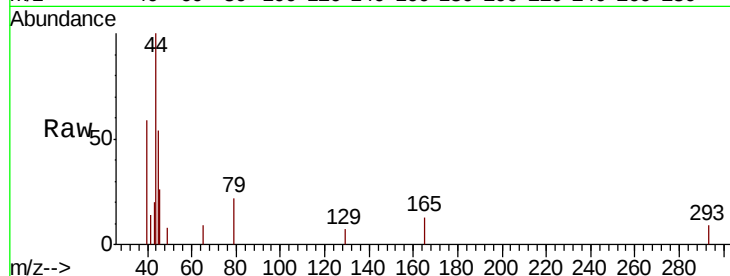
AA-1DL

Tot Ion: 45 Resp: 774

Ion Ratio Lower Upper

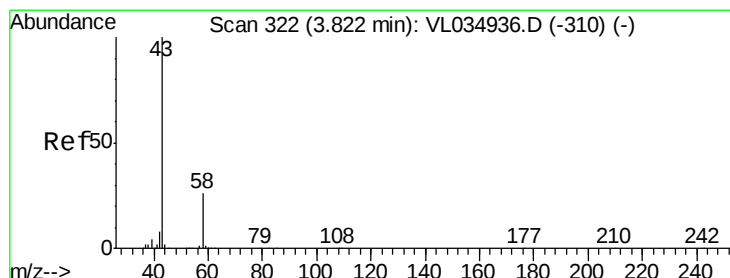
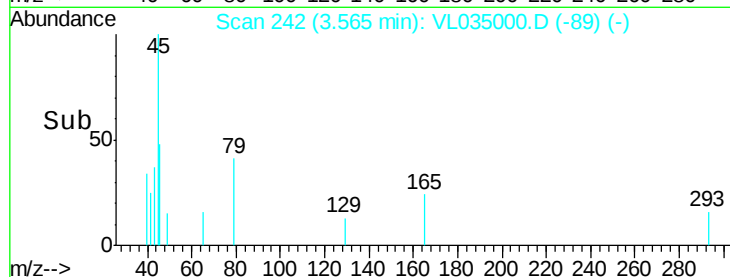
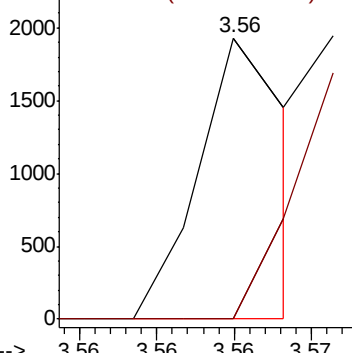
45 100

46 0.0 14.3 57.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.356 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL035000.D

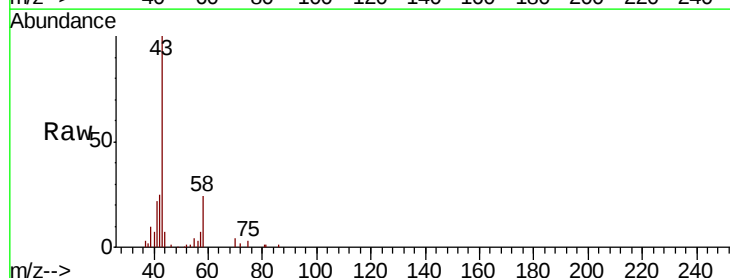
Acq: 12 May 2020 23:35

Tgt Ion: 43 Resp: 45802

Ion Ratio Lower Upper

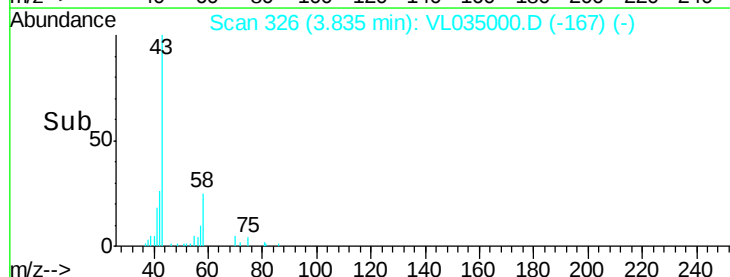
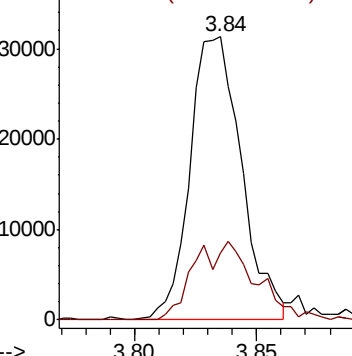
43 100

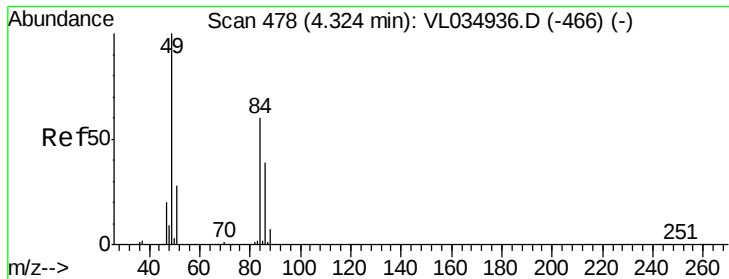
58 33.6 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

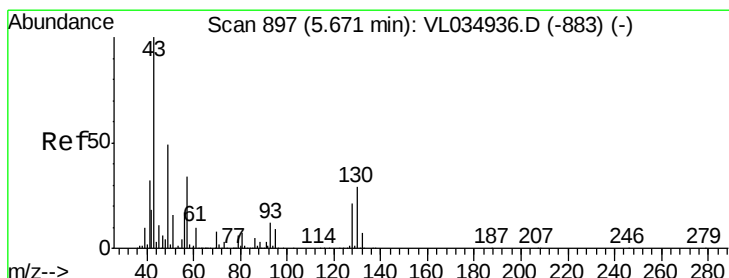
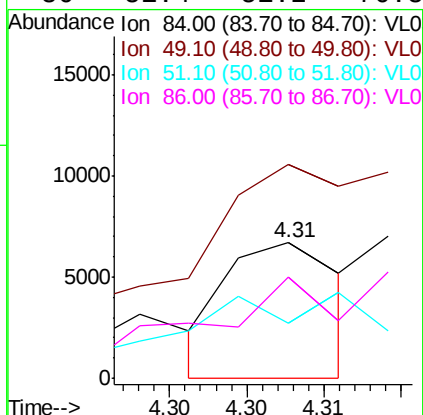
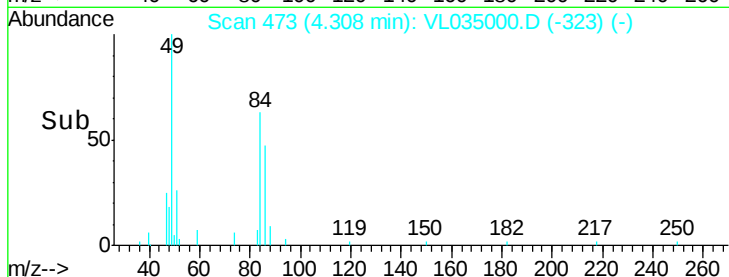
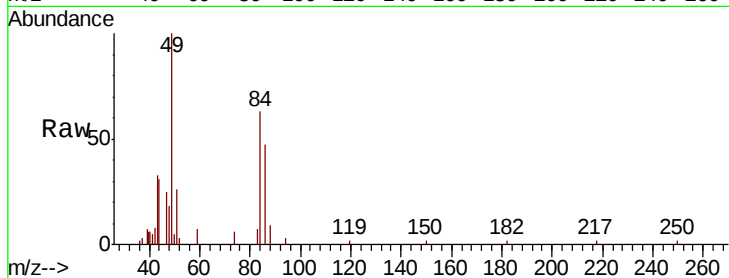




#20
Methylene Chloride
Concen: 0.081 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035000.D
Acq: 12 May 2020 23:35

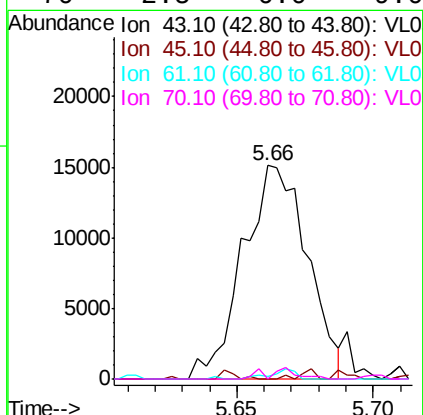
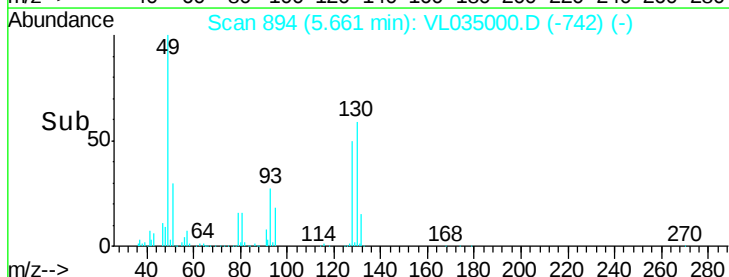
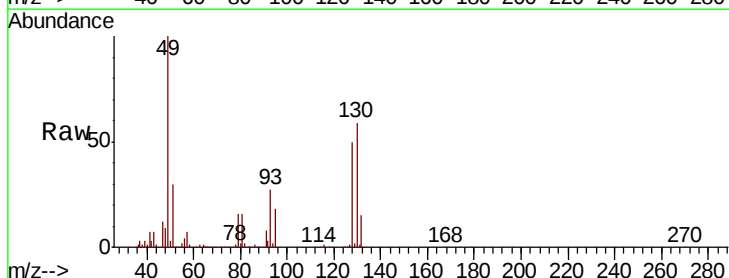
Instrument :
MSVOA_L
ClientSampled :
AA-1DL

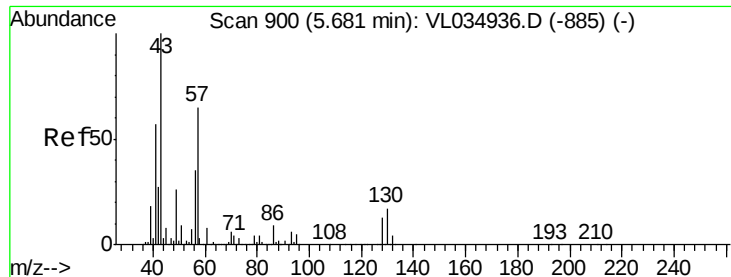
Tot Ion:	84	Resp:	3447
Ion	Ratio	Lower	Upper
84	100		
49	142.0	132.5	198.7
51	16.7	38.4	57.6#
86	51.4	51.2	76.8



#25
Ethyl Acetate
Concen: 0.115 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035000.D
Acq: 12 May 2020 23:35

Tgt Ion:	43	Resp:	24832
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.1	12.1#
61	1.9	7.8	11.8#
70	2.5	6.0	9.0#





#26

Hexane

Concen: 0.332 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Instrument :

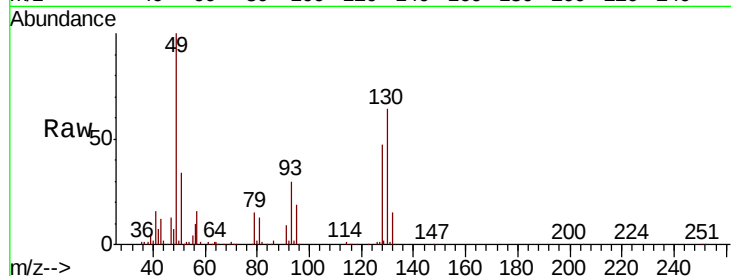
MSVOA_L

ClientSampleId :

AA-1DL

Tot Ion: 57 Resp: 31180

Ion	Ratio	Lower	Upper
57	100		
41	105.9	72.7	109.1
43	83.4	182.1	273.1#
56	59.2	42.2	63.2



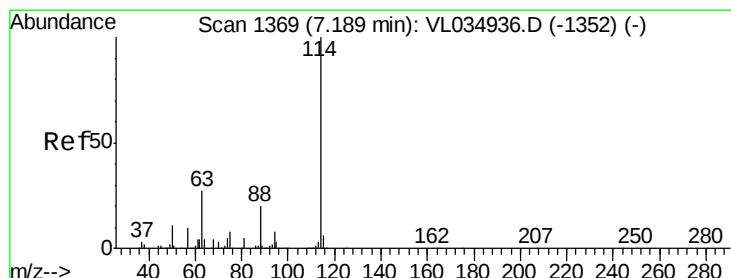
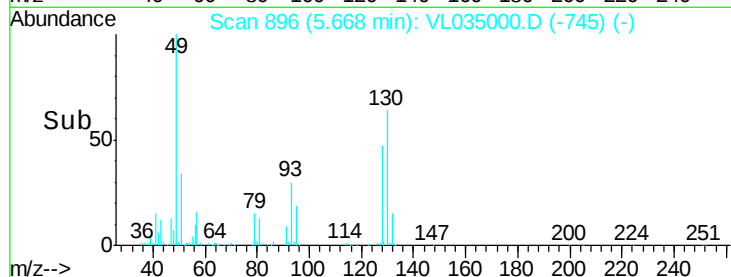
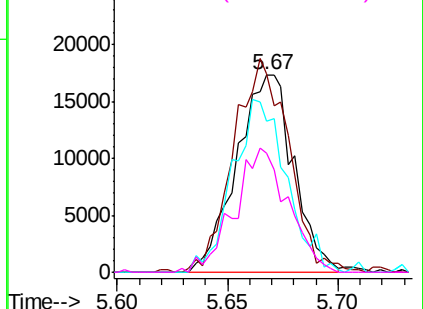
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

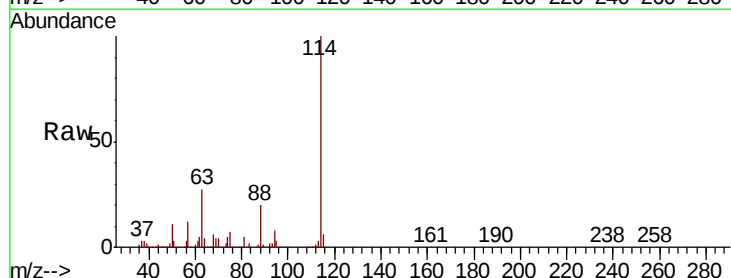
Delta R.T. -0.03 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Tgt Ion: 114 Resp: 2278219

Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	19.1	15.5	23.3

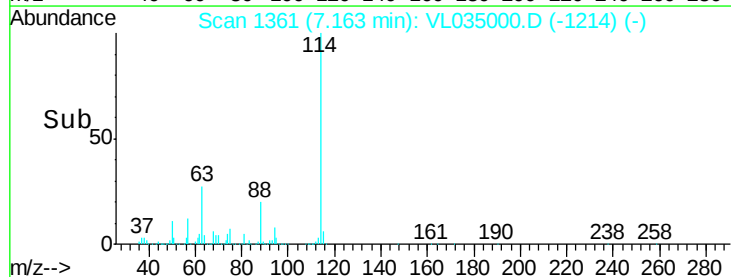
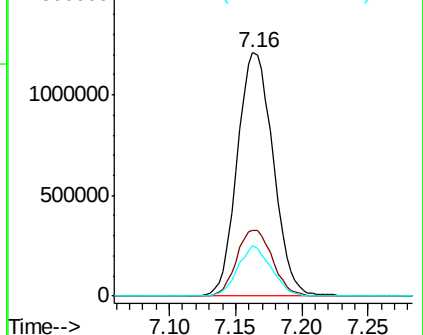


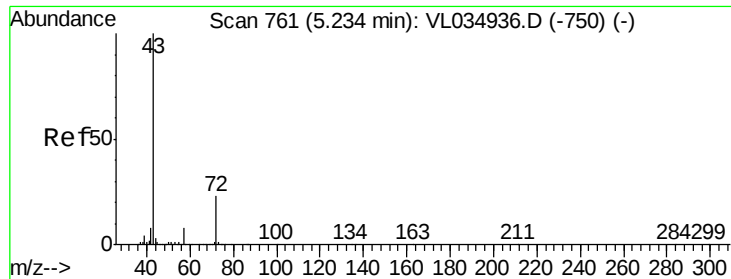
Abundance

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: 0.040 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

Instrument :

MSVOA_L

ClientSampleId :

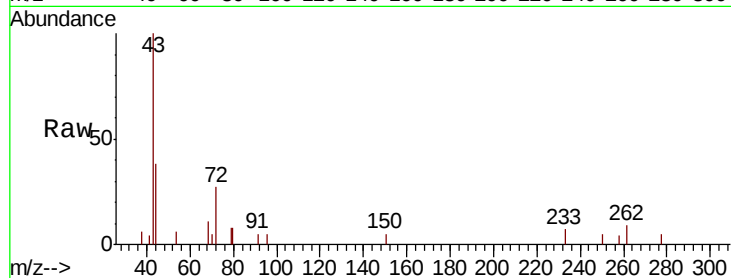
AA-1DL

Tot Ion: 43 Resp: 5625

Ion Ratio Lower Upper

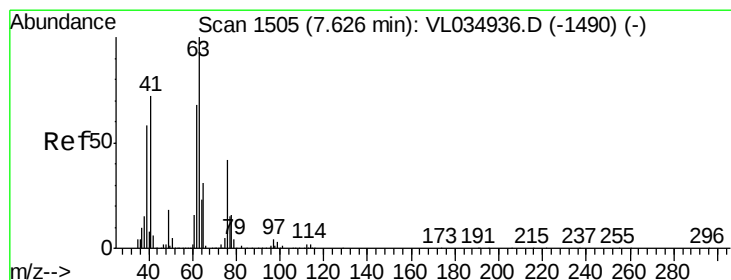
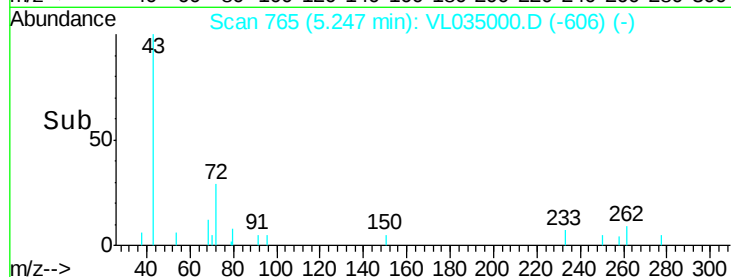
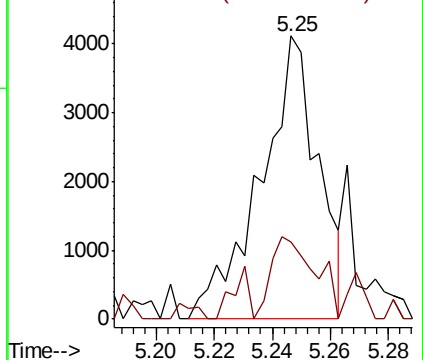
43 100

72 35.3 18.0 27.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.179 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.46 min

Lab File: VL035000.D

Acq: 12 May 2020 23:35

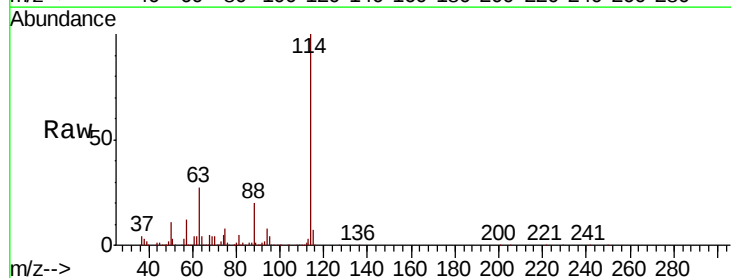
Tgt Ion: 63 Resp: 615872

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

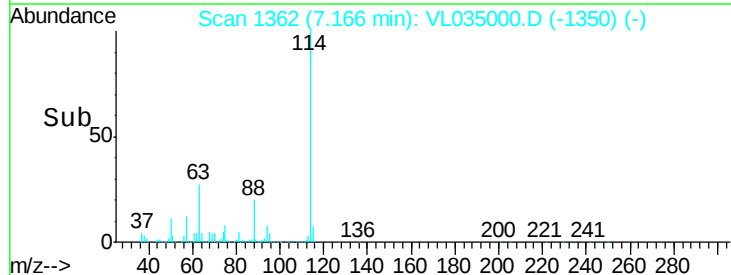
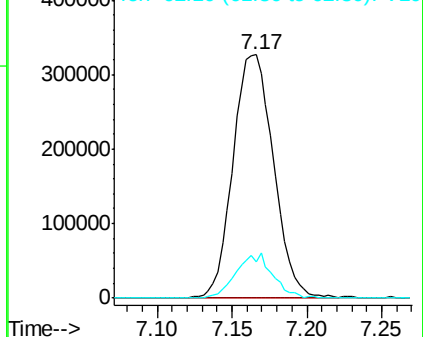
62 15.2 54.2 81.2#

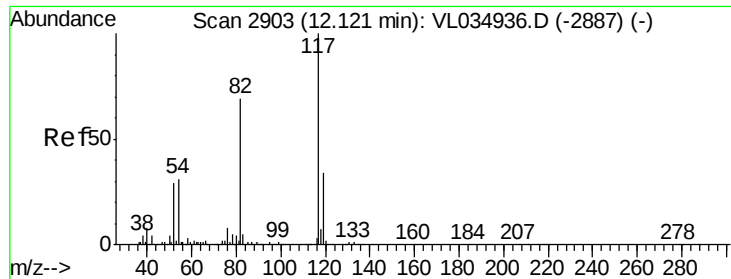


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

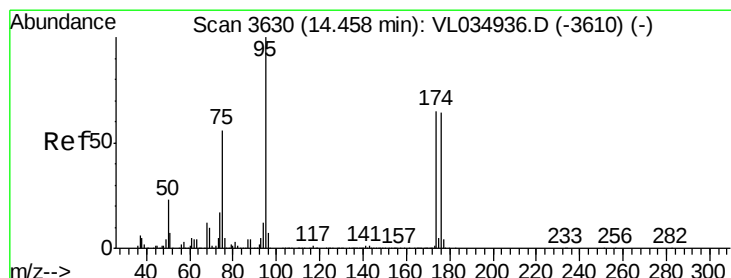
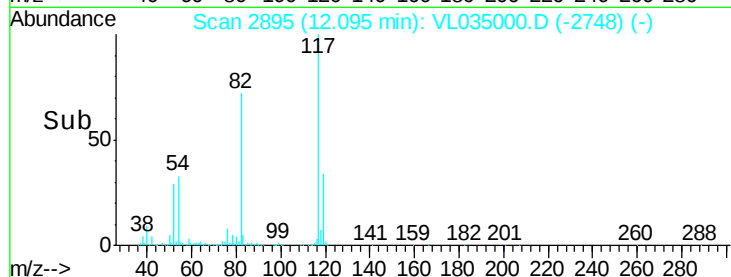
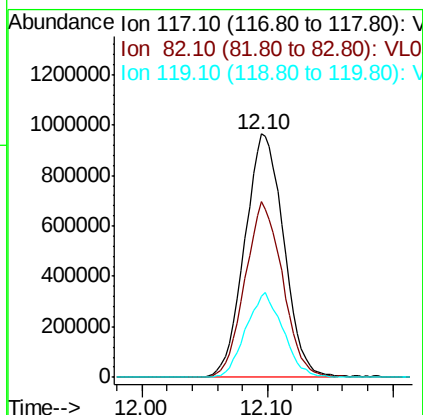
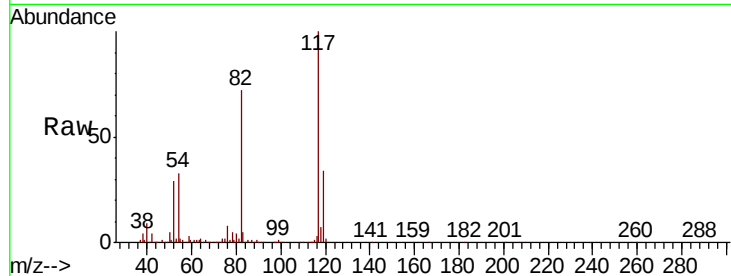




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035000.D
Acq: 12 May 2020 23:35

Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

Tot Ion:117 Resp: 2090278
Ion Ratio Lower Upper
117 100
82 70.0 53.1 79.7
119 33.4 26.7 40.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.235 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.03 min
Lab File: VL035000.D
Acq: 12 May 2020 23:35

Tgt Ion: 95 Resp: 1731789
Ion Ratio Lower Upper
95 100
174 64.6 51.5 77.3
175 5.0 3.8 5.8

