

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036234.D
 Acq On : 13 Jan 2021 20:57
 Operator : SY/AP
 Sample : M1070-01
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 13 22:10:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 07:53:51 2021
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1506919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3132317	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2729299	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2262435	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

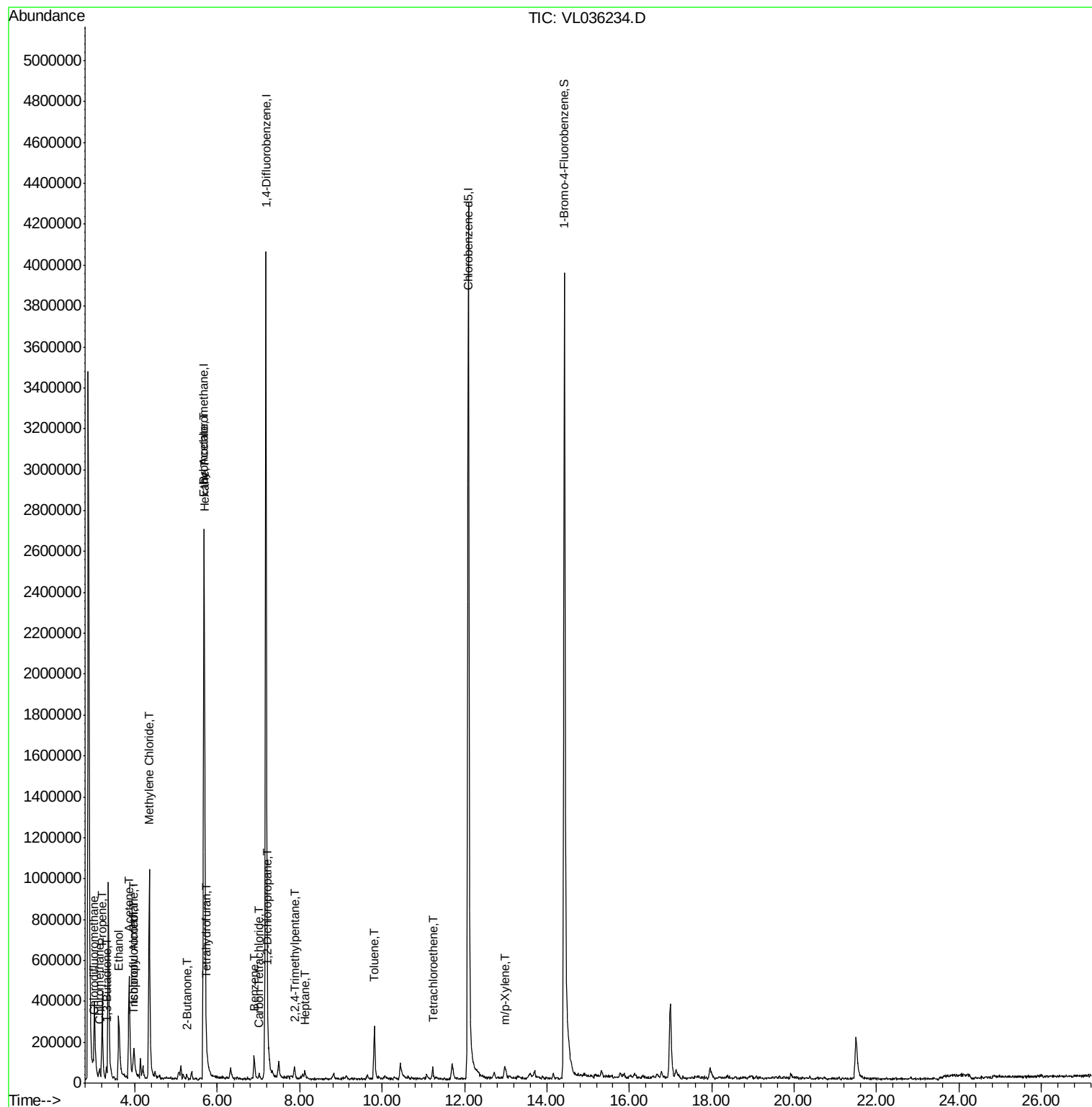
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	106306	0.569	ppbv #	87
4) Chloromethane	3.14	50	42767	0.463	ppbv #	80
9) Propene	3.20	41	140360	1.575	ppbv	97
10) Heptane	8.13	43	6756	0.031	ppbv #	29
11) Trichlorofluoromethane	3.95	101	19742	0.099	ppbv	98
13) Ethanol	3.61	45	189375	10.124	ppbv #	29
15) Acetone	3.85	43	689086	3.850	ppbv	95
16) 1,3-Butadiene	3.31	39	14414	0.169	ppbv	95
19) Isopropyl Alcohol	3.97	45	87216	0.843	ppbv #	93
20) Methylene Chloride	4.35	84	361270	6.592	ppbv	98
25) Ethyl Acetate	5.69	43	348838	0.957	ppbv #	80
26) Hexane	5.69	57	448870	2.945	ppbv #	39
34) 2-Butanone	5.26	43	9656	0.048	ppbv #	1
35) Carbon Tetrachloride	7.01	117	7690	0.039	ppbv #	73
36) Benzene	6.89	78	50676	0.177	ppbv #	87
39) 1,2-Dichloropropane	7.23	63	19170	0.165	ppbv #	20
41) Tetrahydrofuran	5.74	42	3872	0.033	ppbv #	44
44) 2,2,4-Trimethylpentane	7.87	57	26787	0.051	ppbv #	15
52) Tetrachloroethene	11.23	164	8461	0.080	ppbv #	67
53) Toluene	9.81	91	178794	0.563	ppbv	95
59) m/p-Xylene	13.00	91	14890	0.043	ppbv #	33

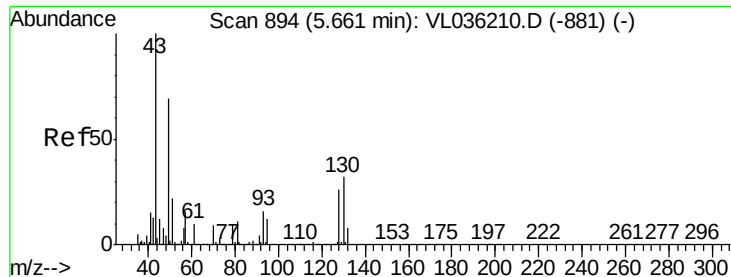
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
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QLast Update : Wed Jan 13 07:53:51 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

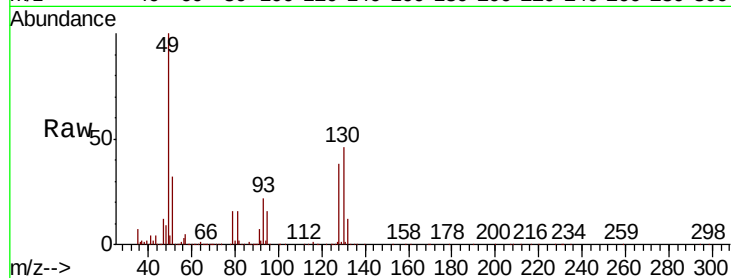
MSVOA_L

ClientSampleId :

IA1

Tot Ion: 49 Resp: 1506919

Ion	Ratio	Lower	Upper
49	100		
128	39.7	20.1	60.2
130	50.0	25.3	75.9

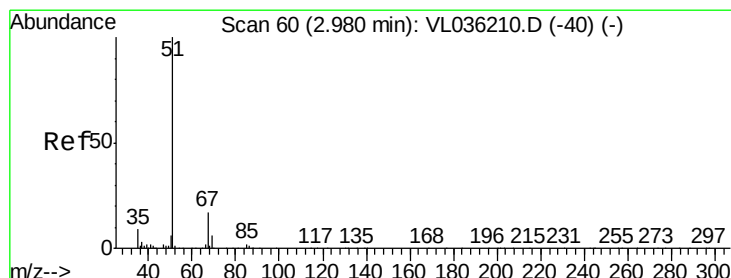
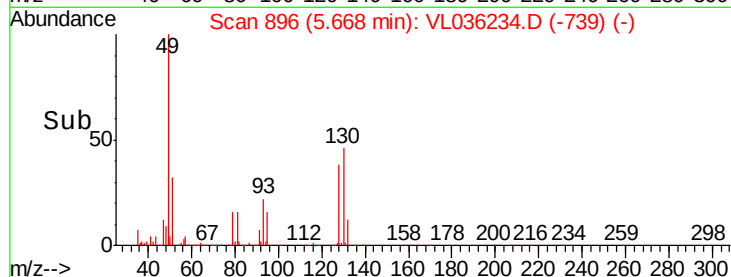


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



#3

Chlorodifluoromethane

Concen: 0.569 ppbv

RT: 2.99 min Scan# 62

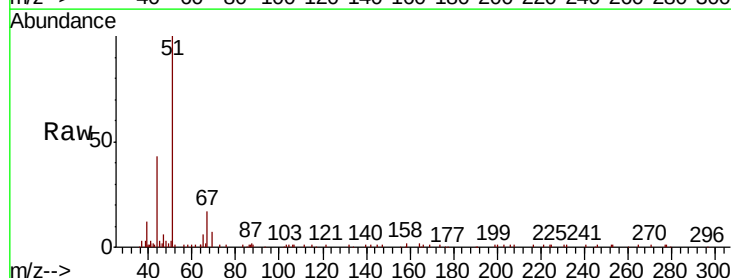
Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Tgt Ion: 51 Resp: 106306

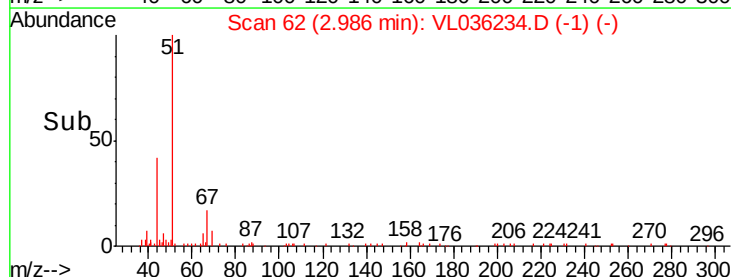
Ion	Ratio	Lower	Upper
51	100		
67	11.6	14.0	21.0

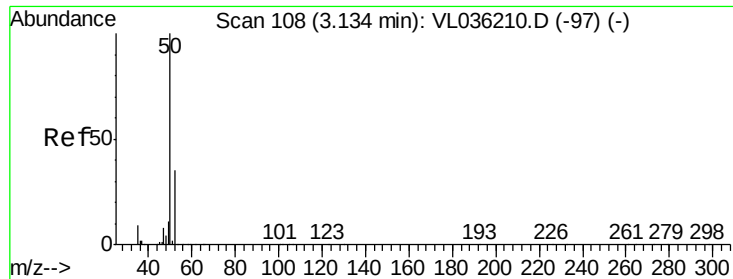


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

Time-->





#4

Chloromethane

Concen: 0.463 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

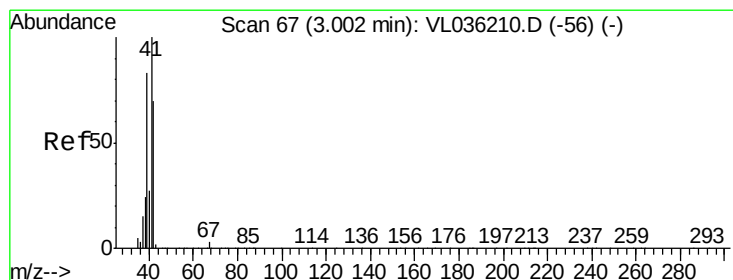
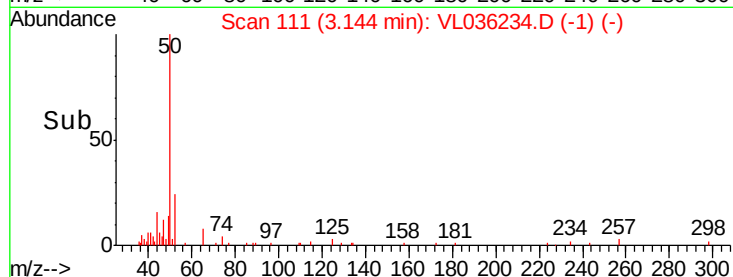
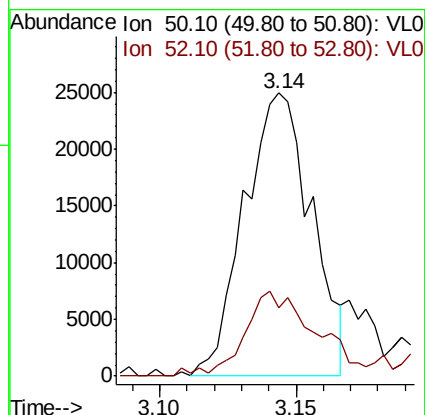
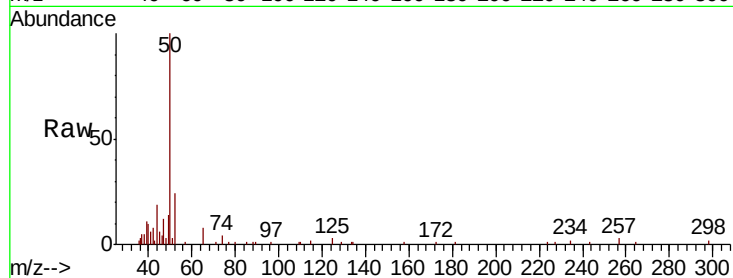
IA1

Tot Ion: 50 Resp: 42767

Ion Ratio Lower Upper

50 100

52 23.1 27.8 41.8#



#9

Propene

Concen: 1.575 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.20 min

Lab File: VL036234.D

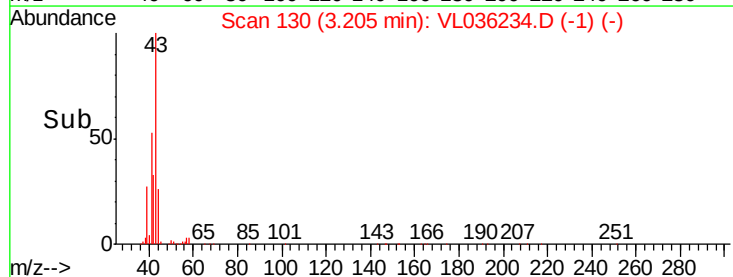
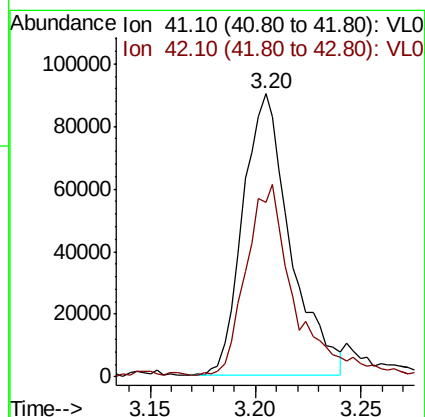
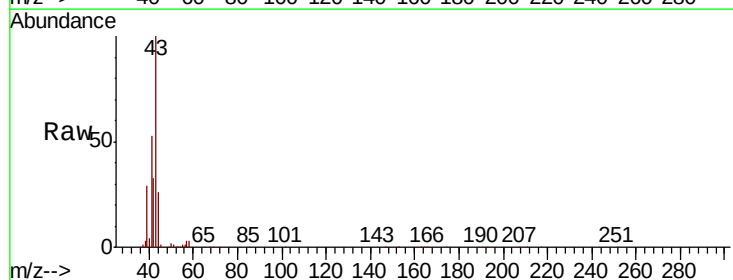
Acq: 13 Jan 2021 20:57

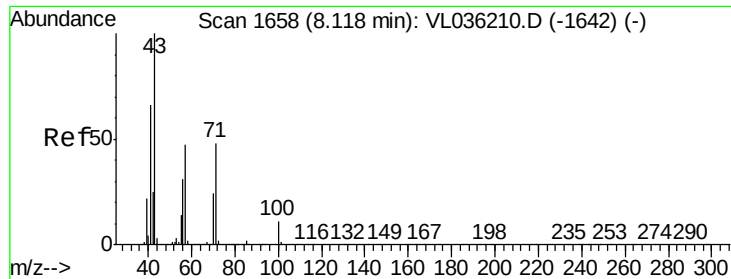
Tgt Ion: 41 Resp: 140360

Ion Ratio Lower Upper

41 100

42 68.6 57.1 85.7





#10

Heptane

Concen: 0.031 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

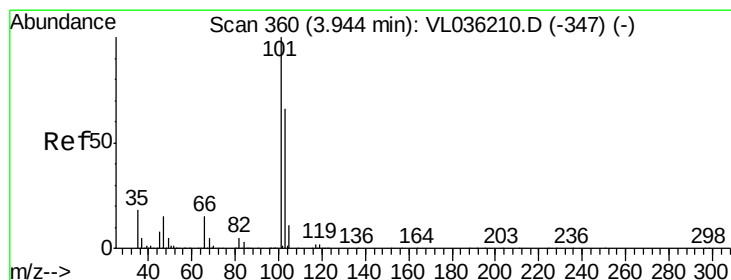
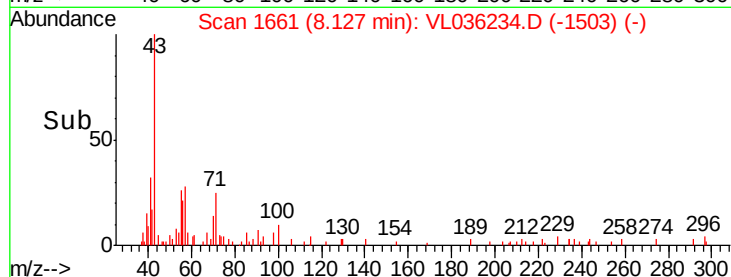
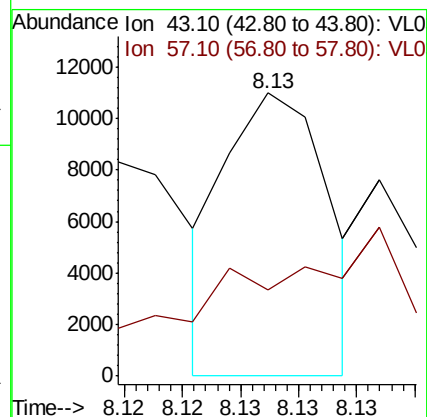
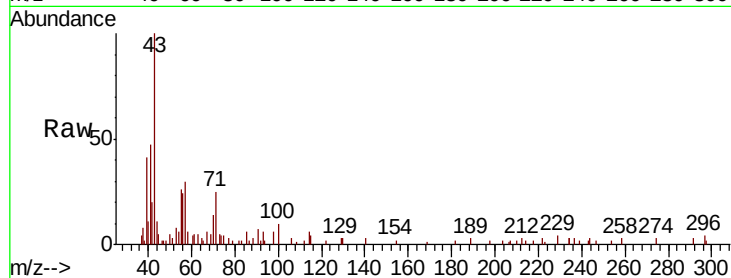
IA1

Tot Ion: 43 Resp: 6756

Ion Ratio Lower Upper

43 100

57 0.0 38.1 57.1#



#11

Trichlorofluoromethane

Concen: 0.099 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL036234.D

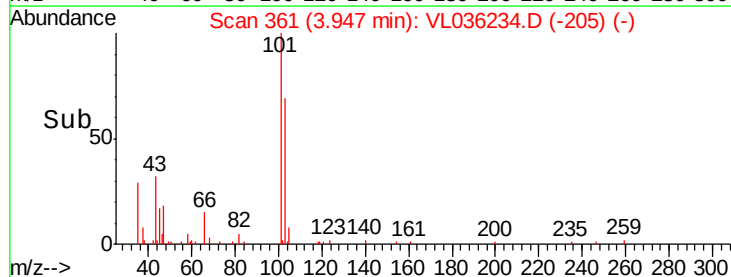
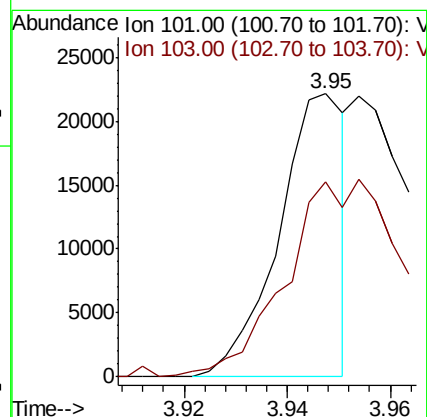
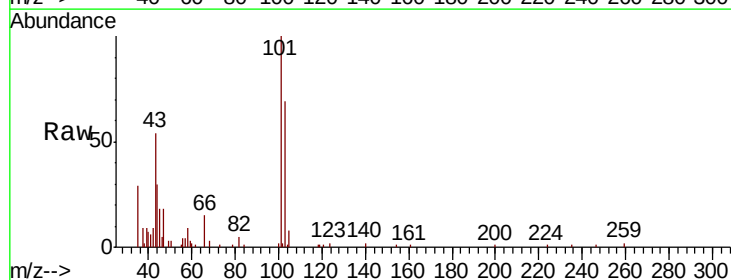
Acq: 13 Jan 2021 20:57

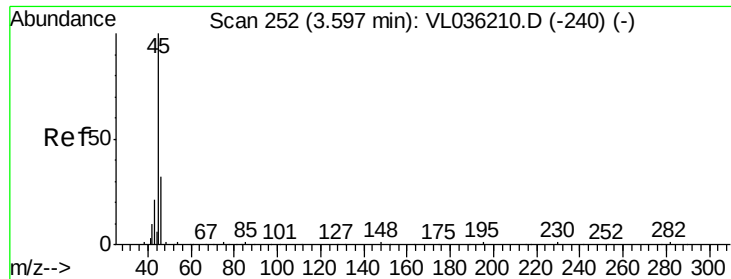
Tgt Ion: 101 Resp: 19742

Ion Ratio Lower Upper

101 100

103 67.1 52.6 78.8





#13

Ethanol

Concen: 10.124 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

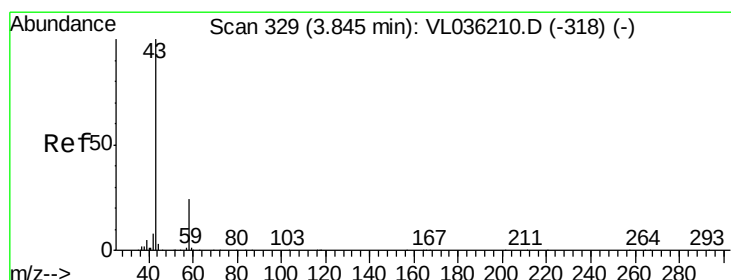
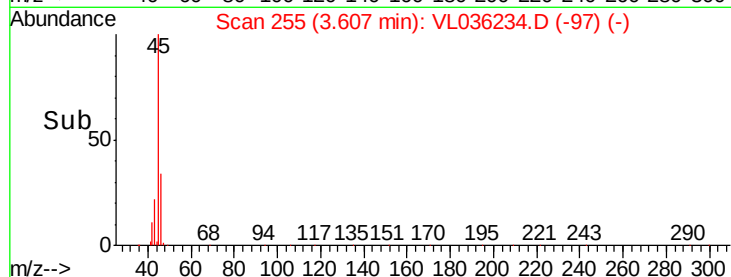
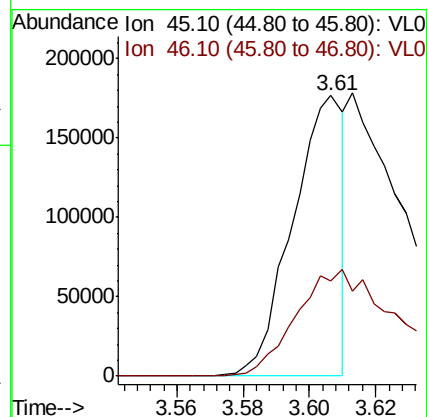
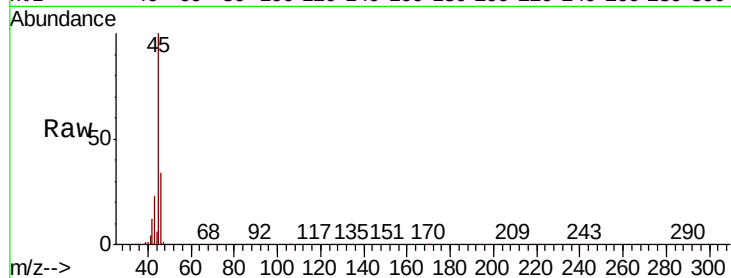
IA1

Tot Ion: 45 Resp: 189375

Ion Ratio Lower Upper

45 100

46 0.0 19.2 77.0#



#15

Acetone

Concen: 3.850 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL036234.D

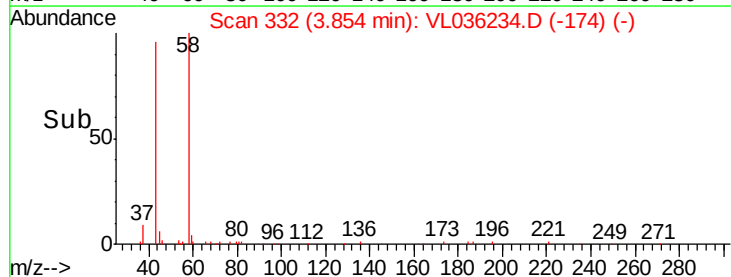
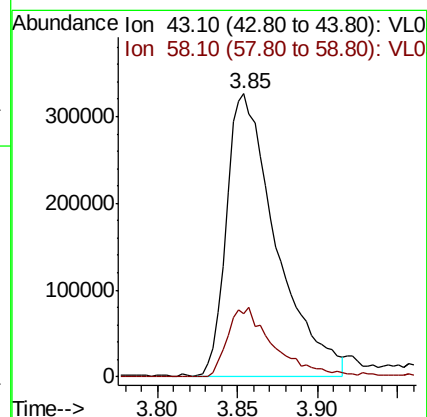
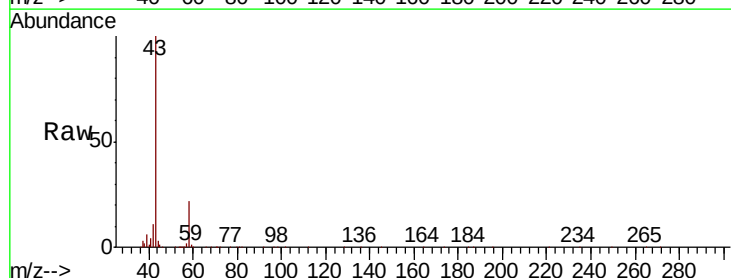
Acq: 13 Jan 2021 20:57

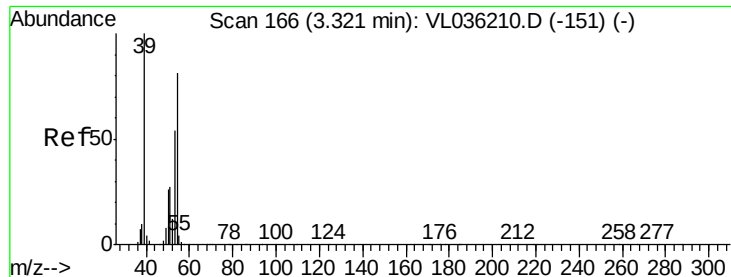
Tgt Ion: 43 Resp: 689086

Ion Ratio Lower Upper

43 100

58 23.4 20.9 31.3

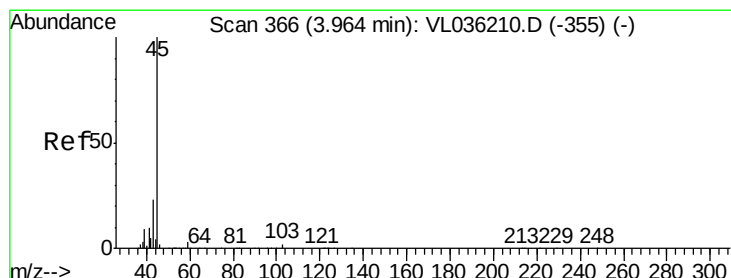
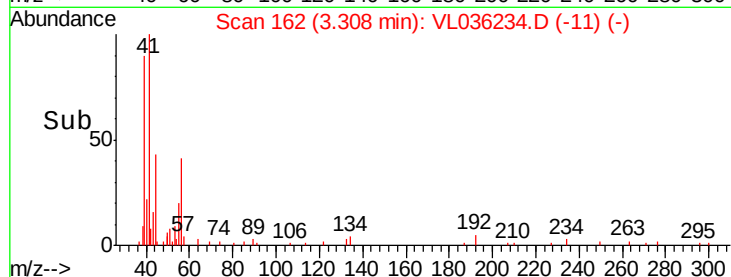
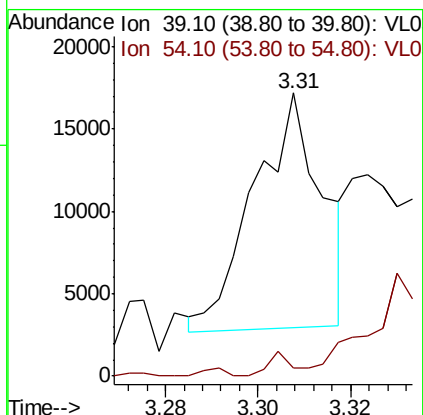
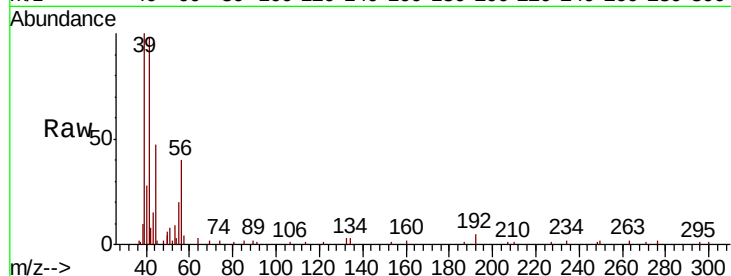




#16
 1,3-Butadiene
 Concen: 0.169 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VL036234.D
 Acq: 13 Jan 2021 20:57

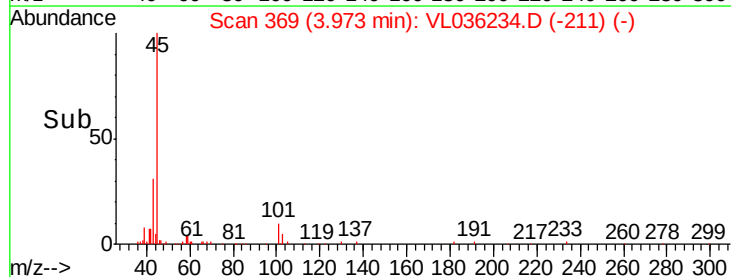
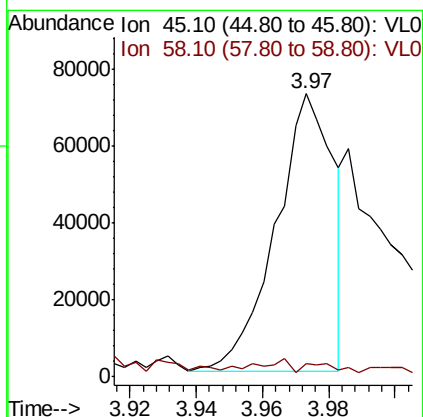
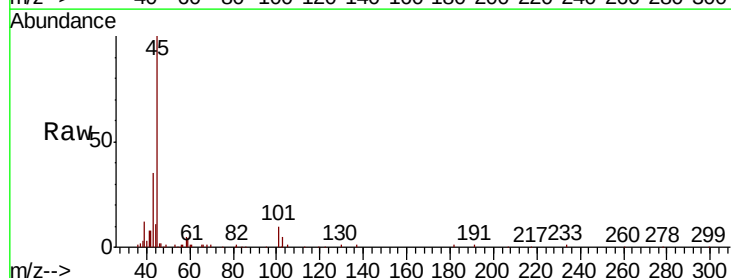
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

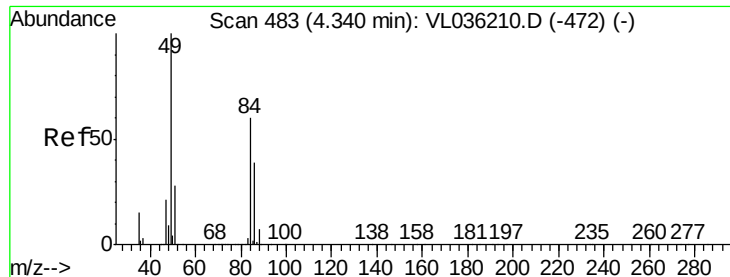
Tot Ion: 39 Resp: 14414
 Ion Ratio Lower Upper
 39 100
 54 74.0 62.5 93.7



#19
 Isopropyl Alcohol
 Concen: 0.843 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.01 min
 Lab File: VL036234.D
 Acq: 13 Jan 2021 20:57

Tgt Ion: 45 Resp: 87216
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.9 2.9#

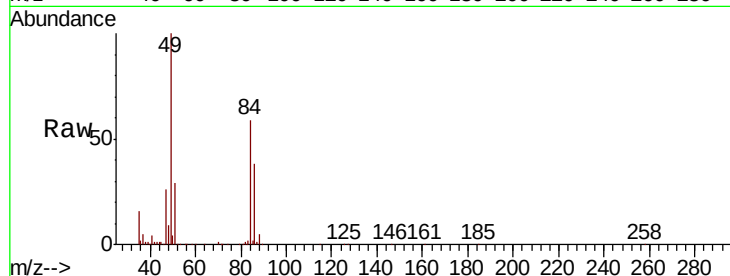




#20
Methylene Chloride
Concen: 6.592 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion:	84	Resp:	361270
Ion	Ratio	Lower	Upper
84	100		
49	169.8	134.1	201.1
51	49.0	37.4	56.0
86	64.1	52.6	78.8



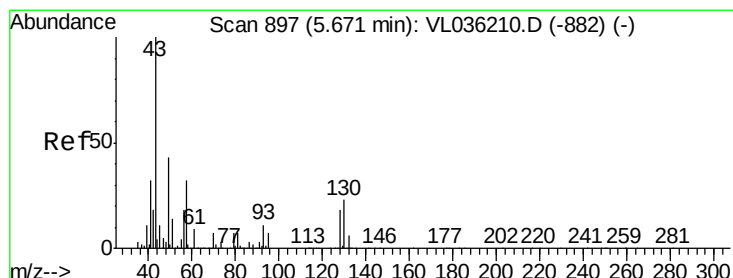
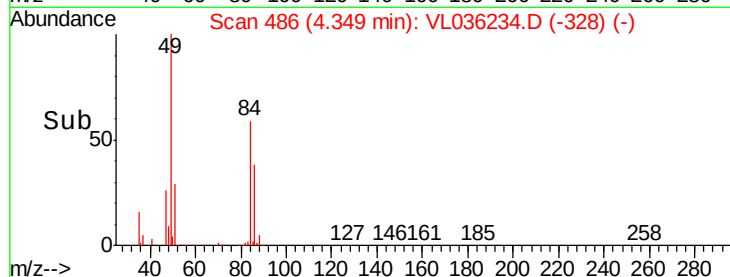
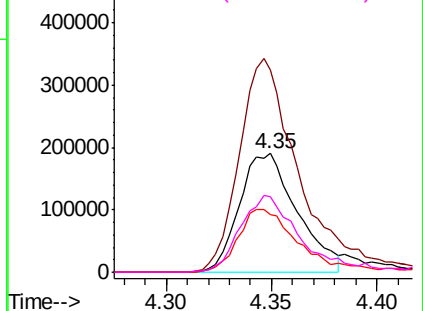
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

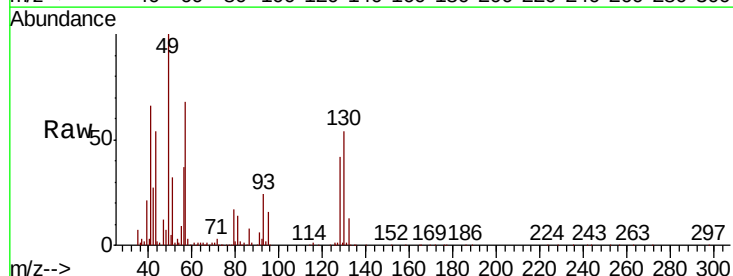
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.957 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion:	43	Resp:	348838
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.3	12.5#
61	1.1	7.4	11.2#
70	2.2	5.5	8.3#



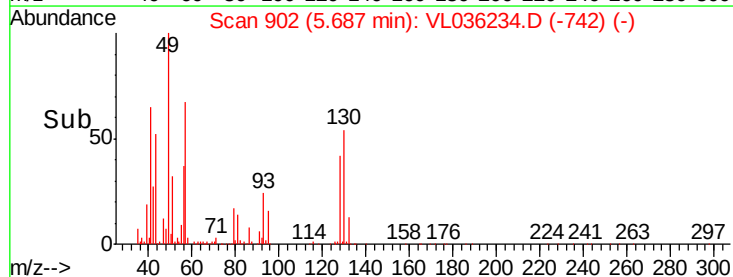
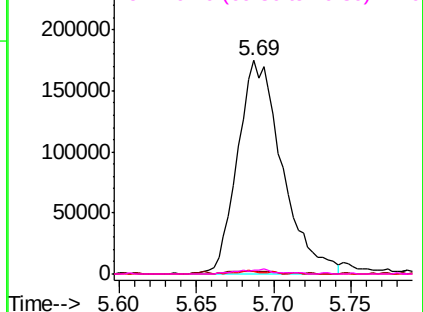
Abundance

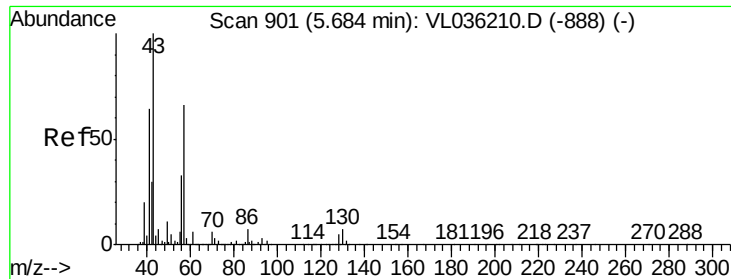
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 2.945 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

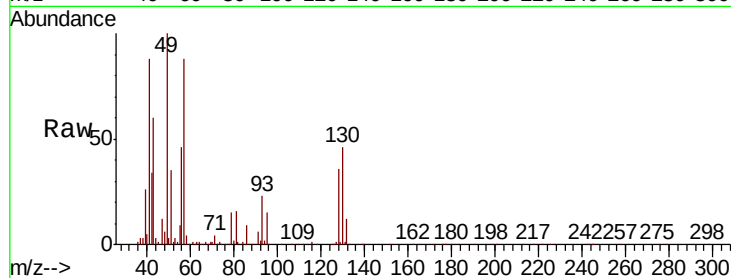
ClientSampleId :

IA1

Tot Ion: 57 Resp: 448870

Ion Ratio Lower Upper

57	100		
41	100.3	83.0	124.6
43	81.7	202.4	303.6#
56	55.6	43.4	65.0



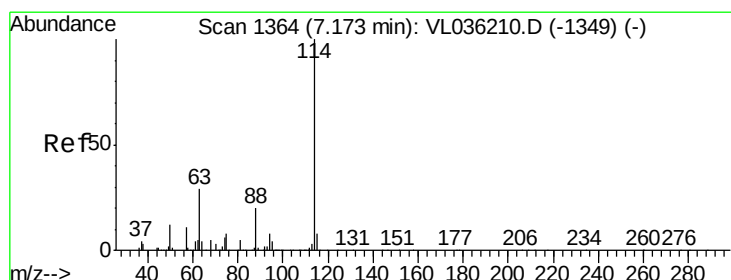
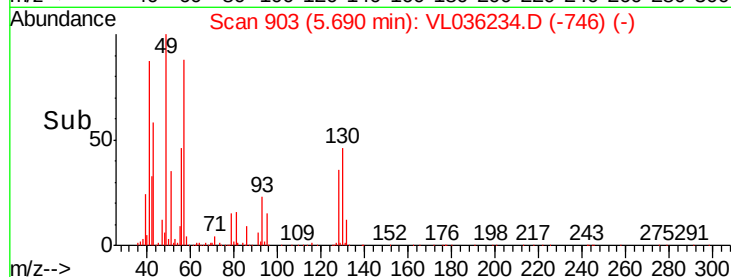
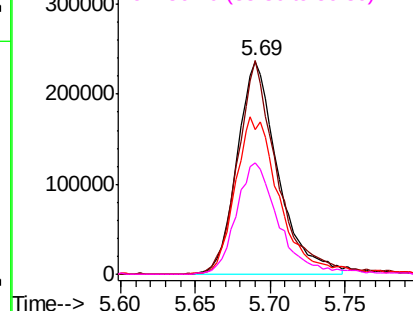
Abundance

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: 7.18 min Scan# 1366

Delta R.T. 0.01 min

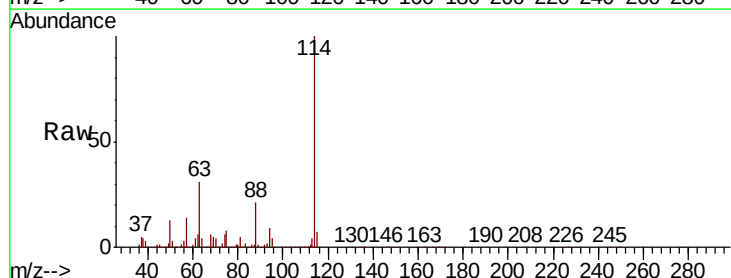
Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Tgt Ion: 114 Resp: 3132317

Ion Ratio Lower Upper

114	100		
63	31.3	24.7	37.1
88	20.5	16.6	24.8

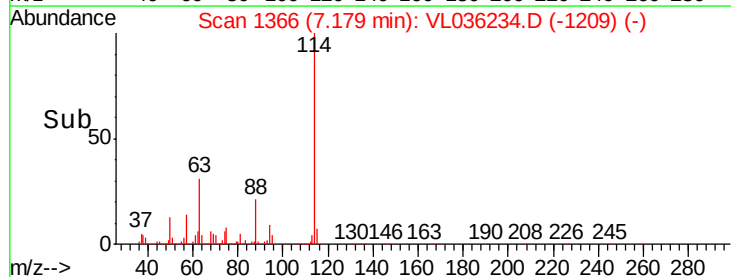
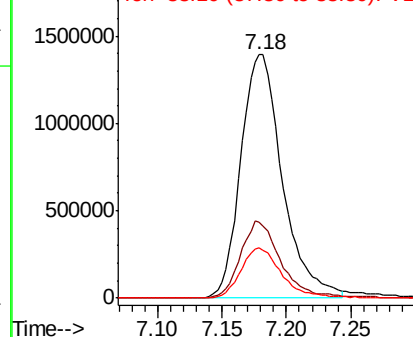


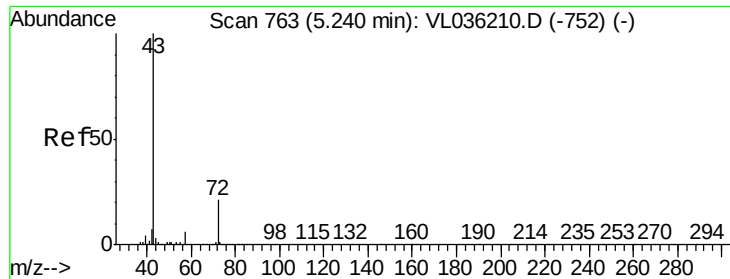
Abundance

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: 0.048 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

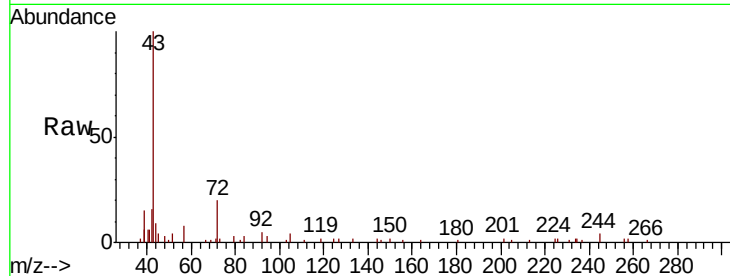
IA1

Tot Ion: 43 Resp: 9656

Ion Ratio Lower Upper

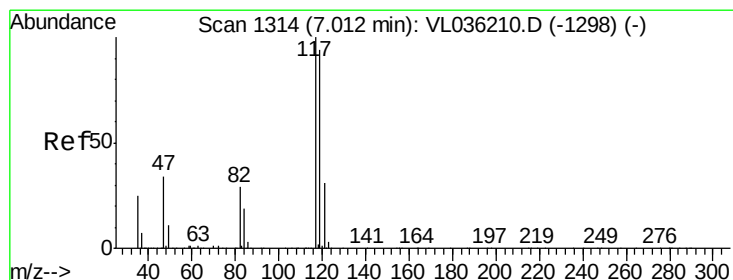
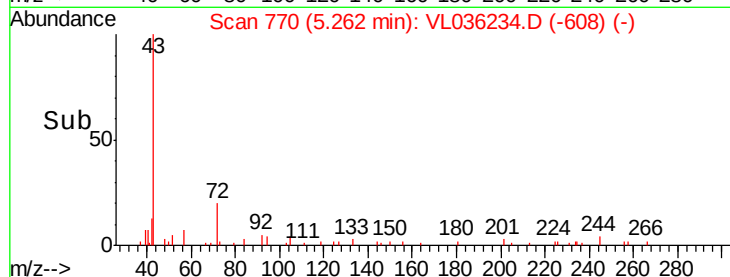
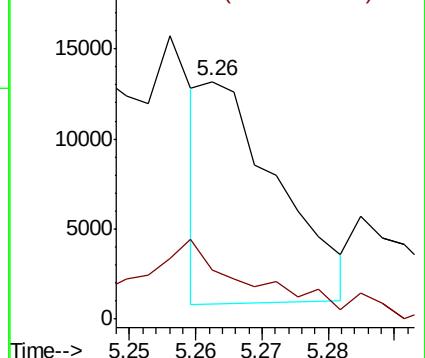
43 100

72 79.9 16.1 24.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

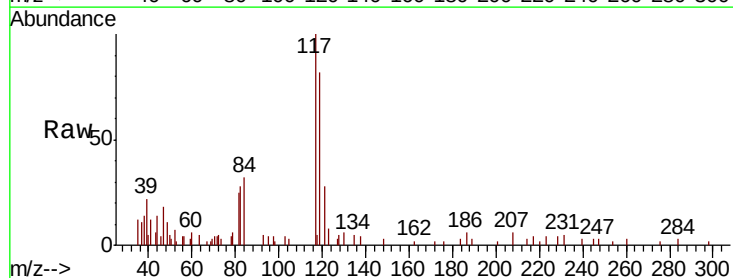
Tgt Ion: 117 Resp: 7690

Ion Ratio Lower Upper

117 100

119 69.1 74.9 112.3#

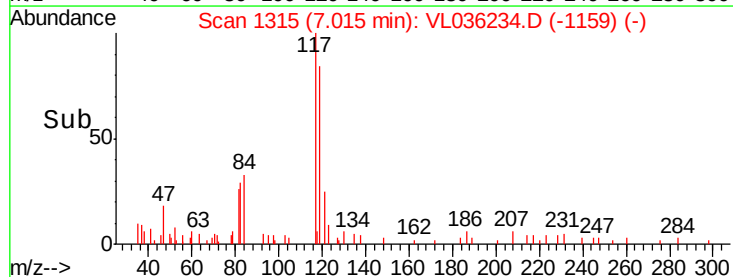
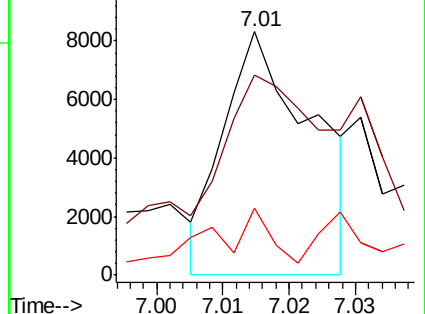
121 14.4 25.0 37.6#

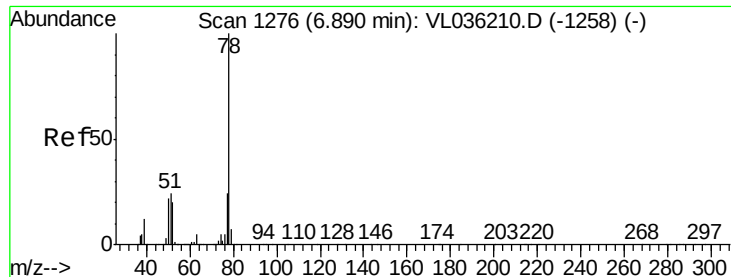


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.177 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampled :

IA1

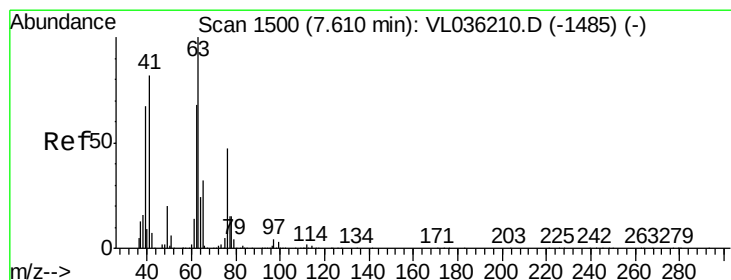
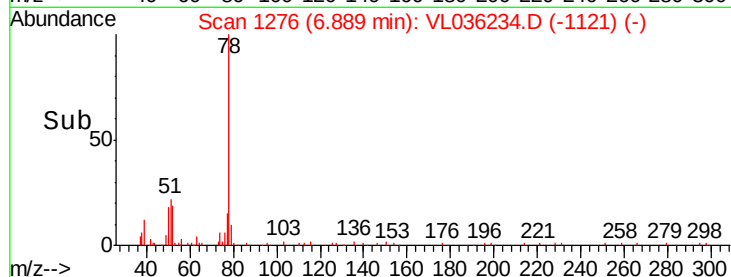
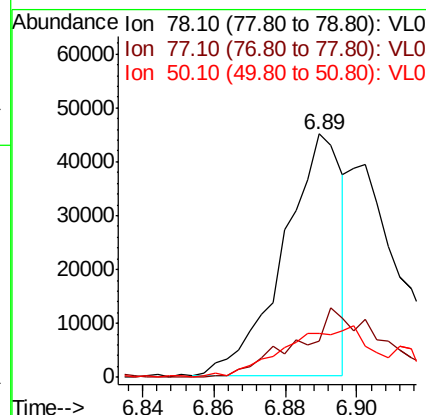
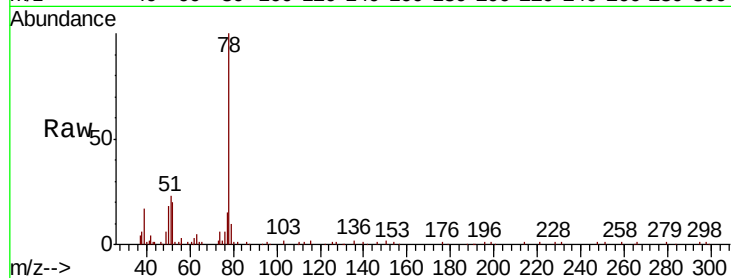
Tot Ion: 78 Resp: 50676

Ion Ratio Lower Upper

78 100

77 15.3 19.4 29.0#

50 18.0 17.4 26.2



#39

1,2-Dichloropropane

Concen: 0.165 ppbv

RT: 7.23 min Scan# 1382

Delta R.T. -0.38 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

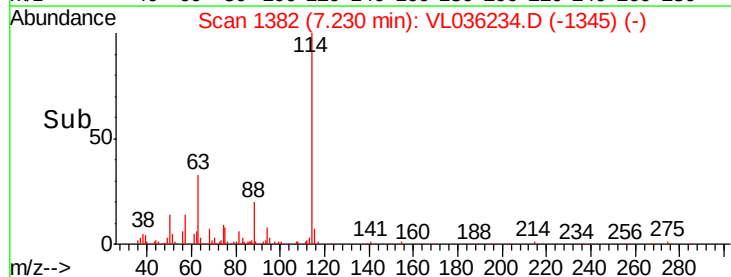
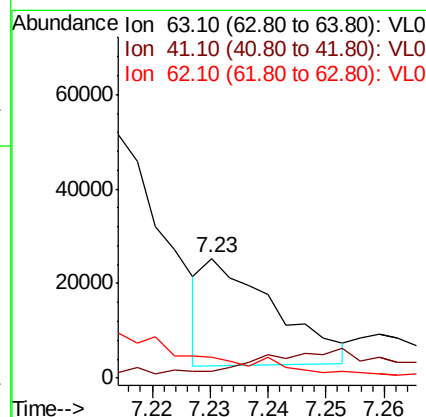
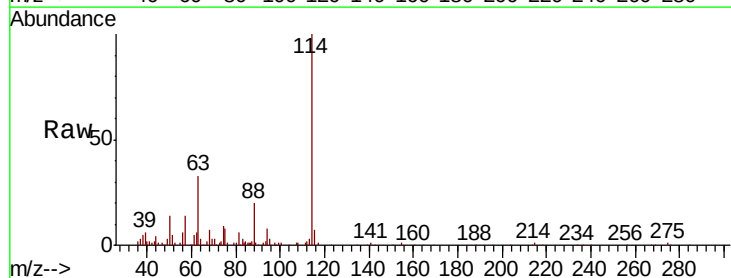
Tgt Ion: 63 Resp: 19170

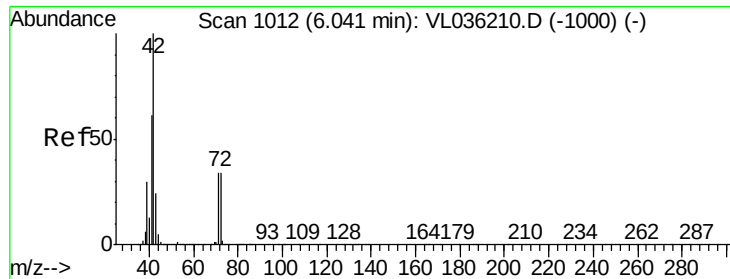
Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 16.1 54.8 82.2#

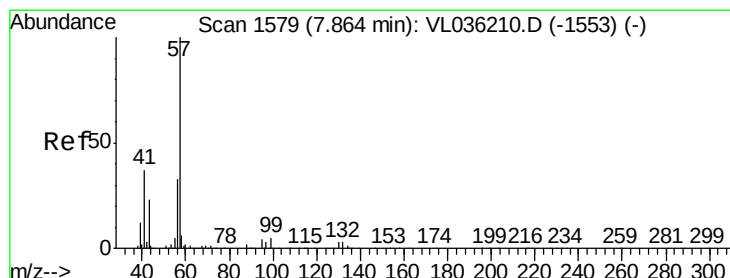
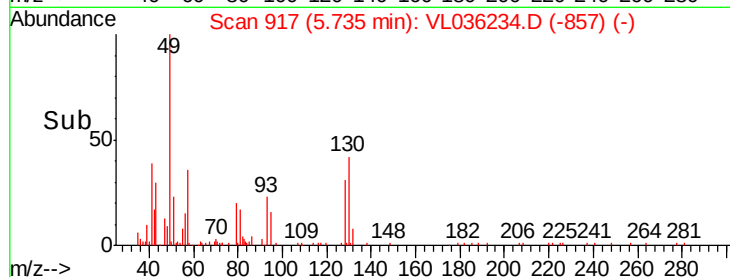
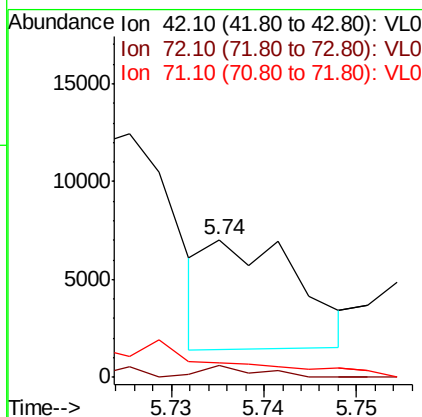
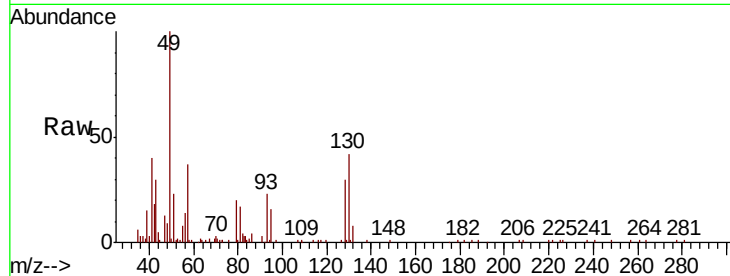




#41
Tetrahydrofuran
Concen: 0.033 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.31 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

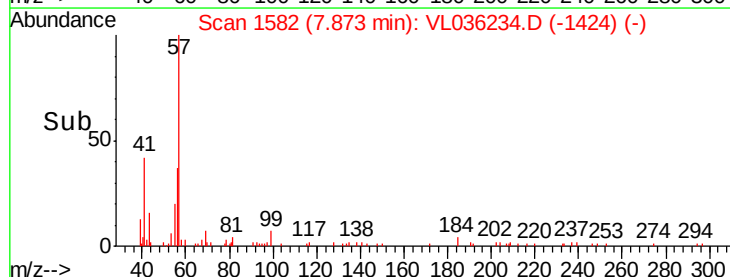
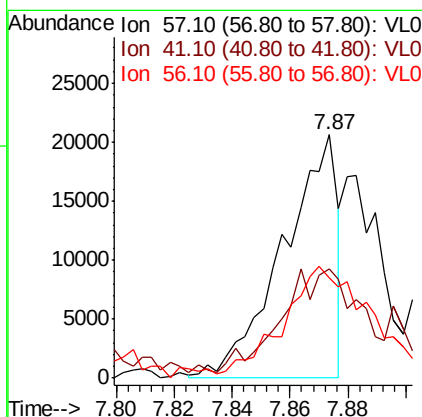
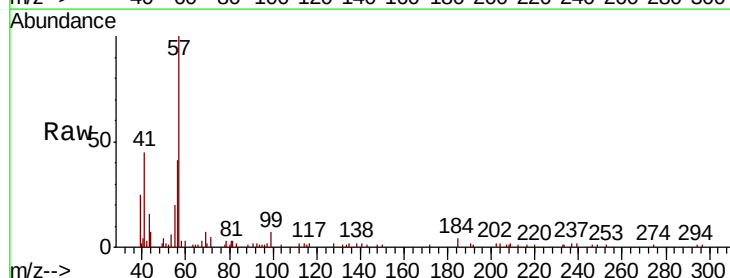
Instrument :
MSVOA_L
ClientSampled :
IA1

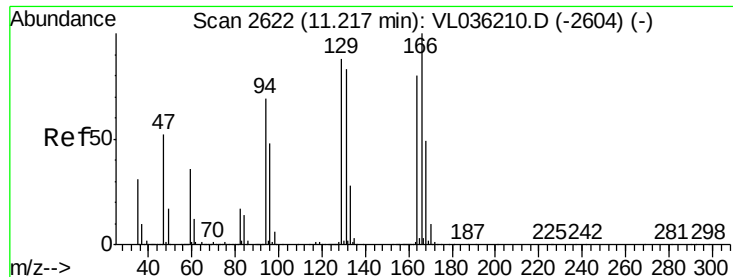
Tot Ion: 42 Resp: 3872
Ion Ratio Lower Upper
42 100
72 6.8 29.5 44.3#
71 0.0 29.1 43.7#



#44
2,2,4-Trimethylpentane
Concen: 0.051 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion: 57 Resp: 26787
Ion Ratio Lower Upper
57 100
41 82.1 28.5 42.7#
56 82.4 25.5 38.3#





#52

Tetrachloroethene

Concen: 0.080 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion:164 Resp: 8461

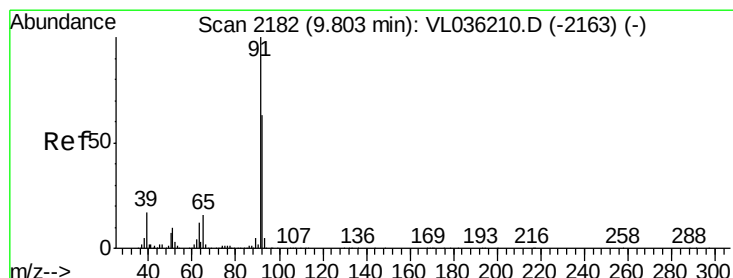
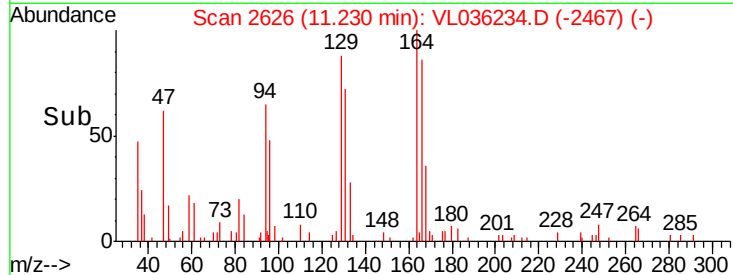
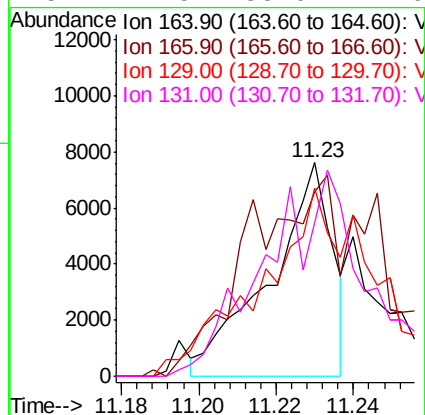
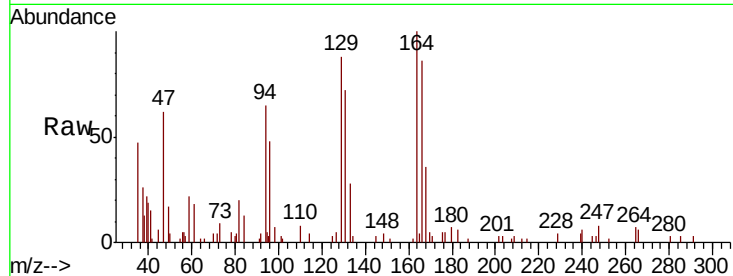
Ion Ratio Lower Upper

164 100

166 78.8 99.9 149.9#

129 83.0 88.2 132.4#

131 72.5 83.0 124.6#



#53

Toluene

Concen: 0.563 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL036234.D

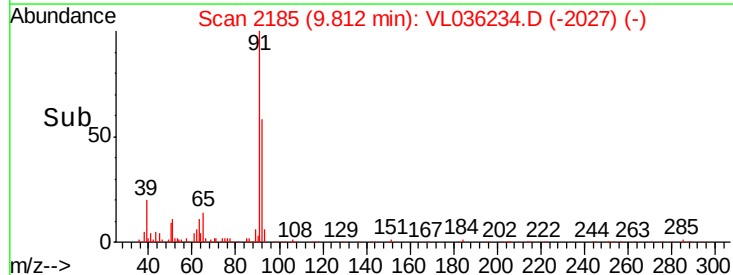
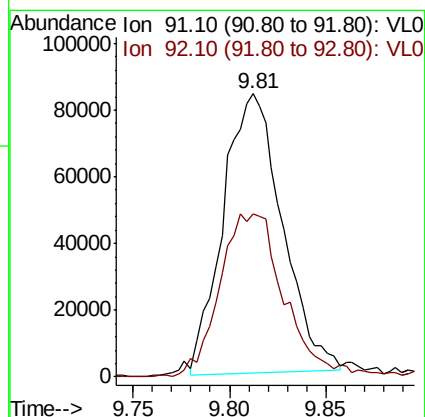
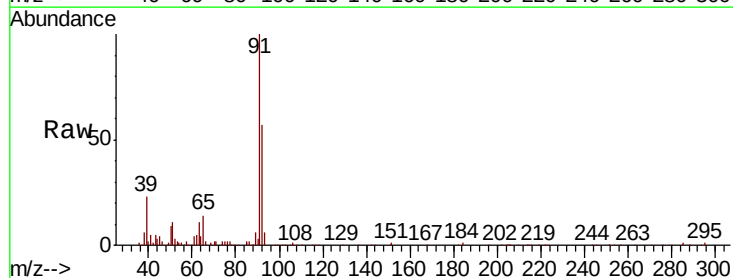
Acq: 13 Jan 2021 20:57

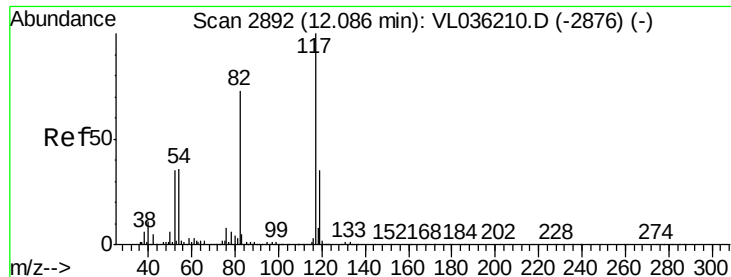
Tgt Ion: 91 Resp: 178794

Ion Ratio Lower Upper

91 100

92 64.1 48.5 72.7

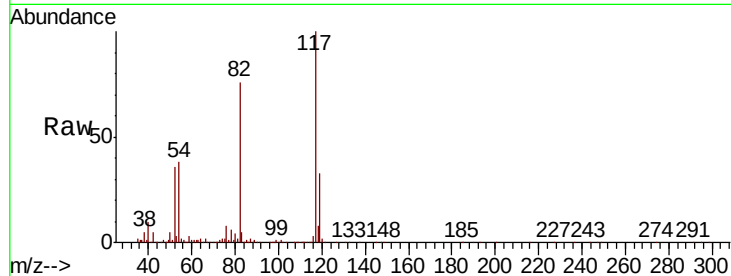




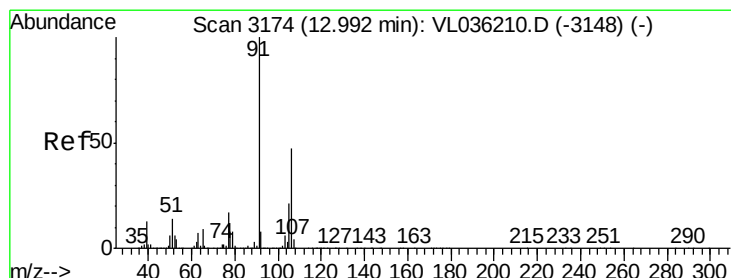
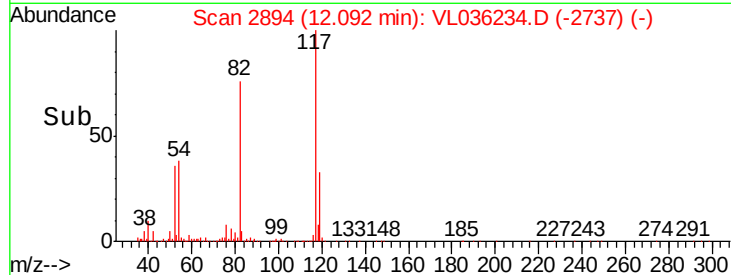
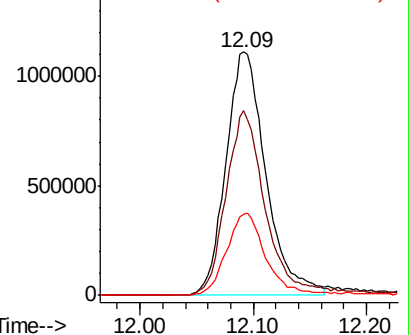
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion:117 Resp: 2729299
Ion Ratio Lower Upper
117 100
82 77.6 59.7 89.5
119 34.2 28.6 43.0

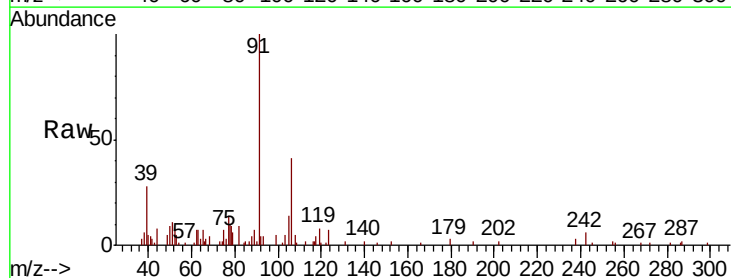


Abundance Ion 117.10 (116.80 to 117.80): V
1500000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

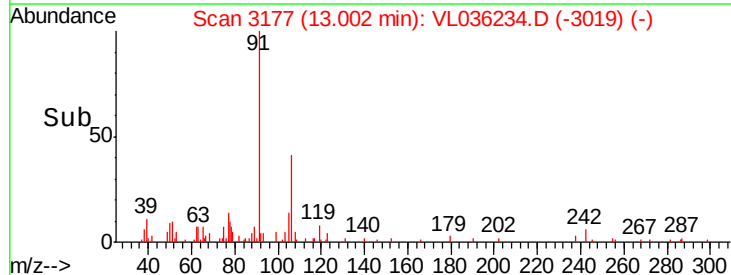
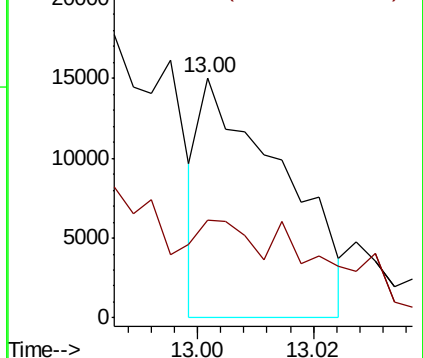


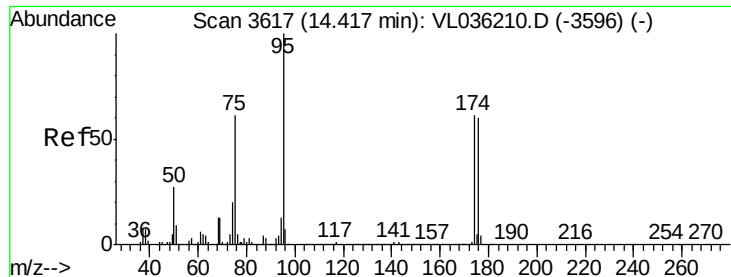
#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 13.00 min Scan# 3177
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion: 91 Resp: 14890
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0
20000
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.015 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 95 Resp: 2262435

Ion Ratio Lower Upper

95 100

174 61.7 49.4 74.0

175 4.5 3.8 5.8

