

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036691.D
 Acq On : 6 Apr 2021 3:00
 Operator : SY/AP
 Sample : M1877-07 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 06 03:42:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1289518	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3065007	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2818310	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2193130	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

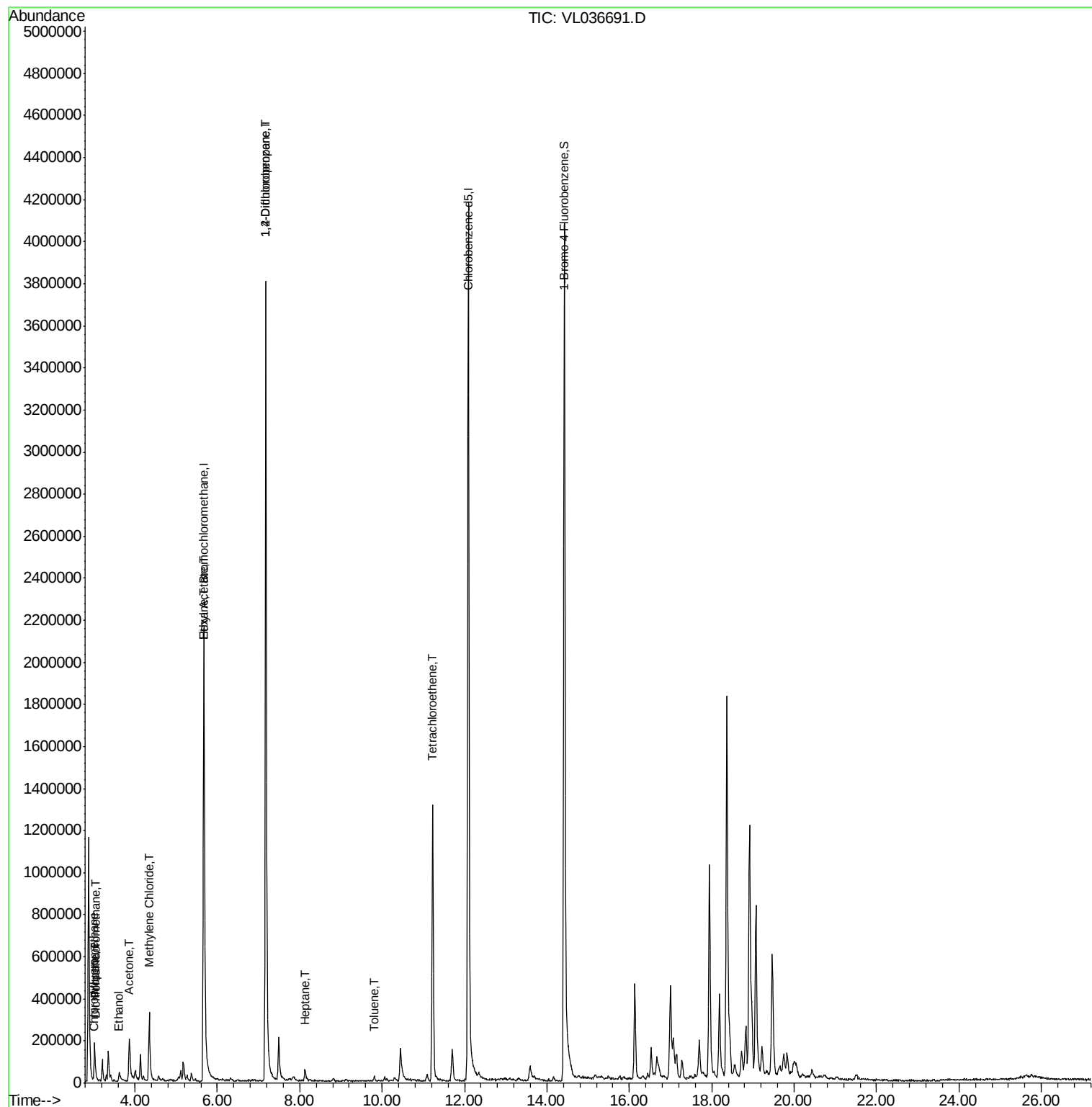
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	11072	0.053	ppbv #	84
3) Chlorodifluoromethane	2.99	51	10477	0.043	ppbv	97
9) Propene	3.02	41	57924	0.754	ppbv #	79
10) Heptane	8.13	43	14150	0.072	ppbv #	61
13) Ethanol	3.60	45	2936	0.321	ppbv #	34
15) Acetone	3.85	43	91877	0.724	ppbv #	48
20) Methylene Chloride	4.35	84	123267	2.074	ppbv	98
25) Ethyl Acetate	5.69	43	70249	0.233	ppbv #	79
26) Hexane	5.69	57	93110	0.665	ppbv #	43
39) 1,2-Dichloropropane	7.18	63	835616	7.287	ppbv #	23
52) Tetrachloroethene	11.23	164	320229	3.076	ppbv	97
53) Toluene	9.81	91	13754	0.046	ppbv #	79

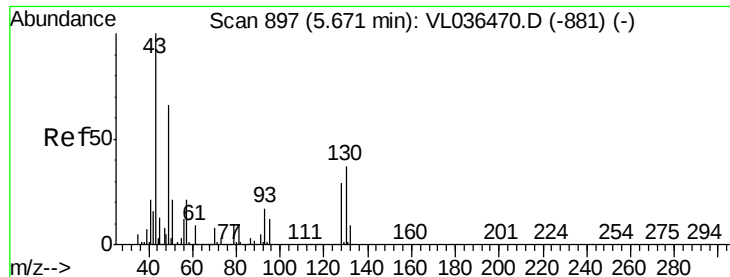
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036691.D

Acq: 6 Apr 2021 3:00

Instrument :

MSVOA_L

ClientSampleId :

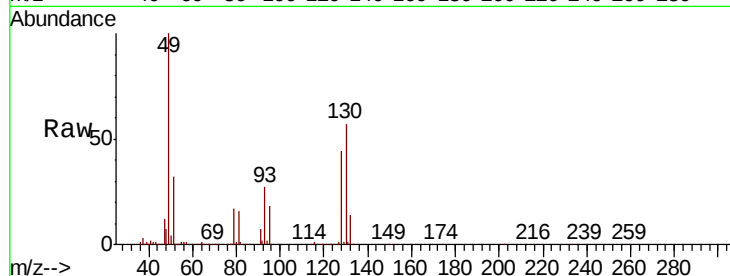
Tot Ion: 49 Resp: 1289518

Ion Ratio Lower Upper

49 100

128 46.2 23.5 70.6

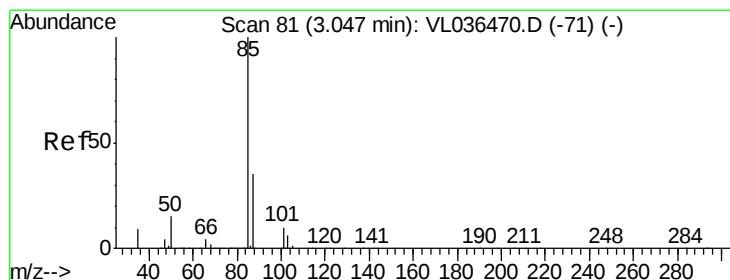
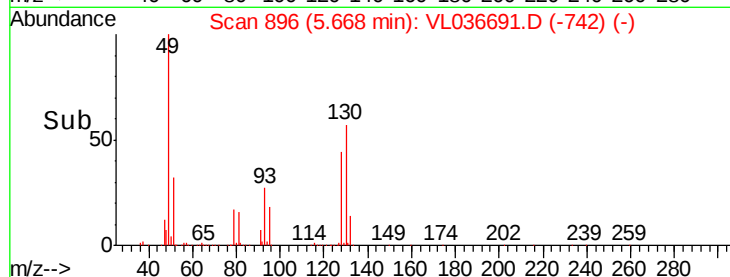
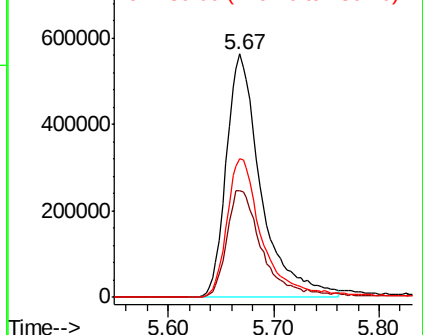
130 59.6 29.1 87.4



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: 0.053 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036691.D

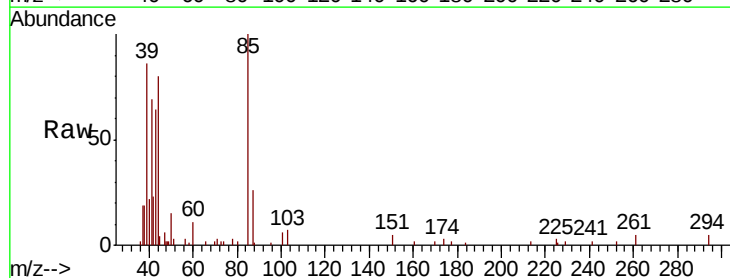
Acq: 6 Apr 2021 3:00

Tgt Ion: 85 Resp: 11072

Ion Ratio Lower Upper

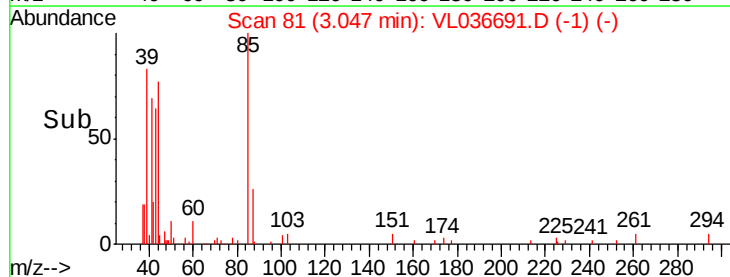
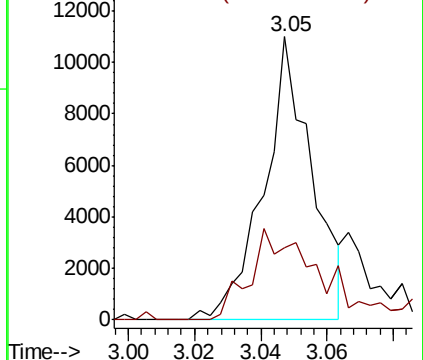
85 100

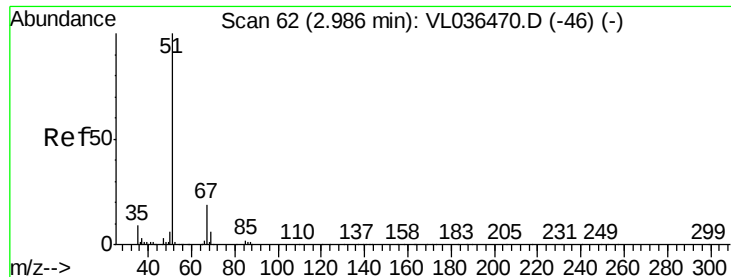
87 25.6 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036691.D

Acq: 6 Apr 2021 3:00

Instrument :

MSVOA_L

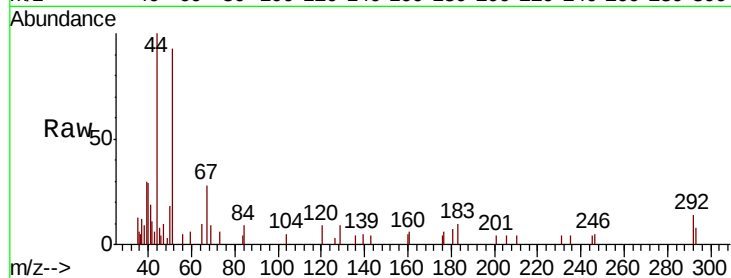
ClientSampleId :

Tot Ion: 51 Resp: 10477

Ion Ratio Lower Upper

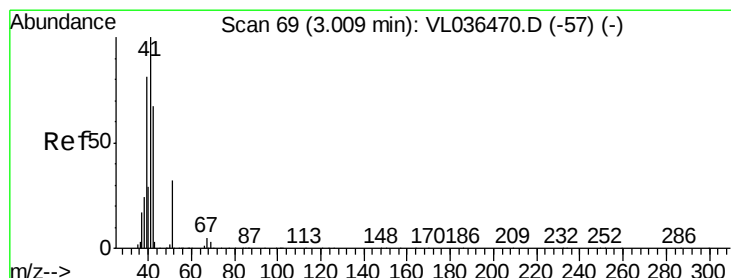
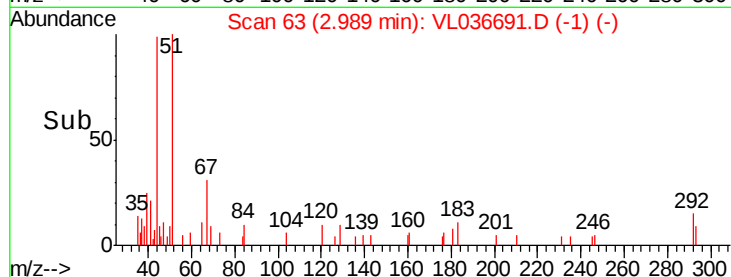
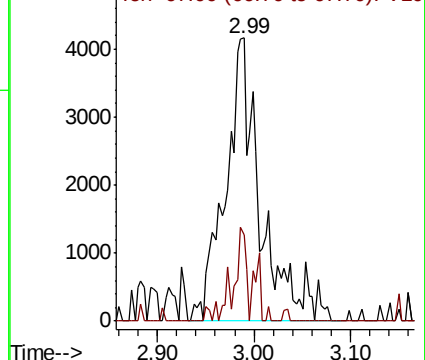
51 100

67 16.9 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.754 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL036691.D

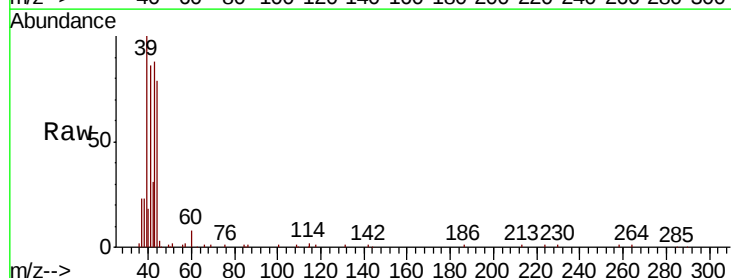
Acq: 6 Apr 2021 3:00

Tgt Ion: 41 Resp: 57924

Ion Ratio Lower Upper

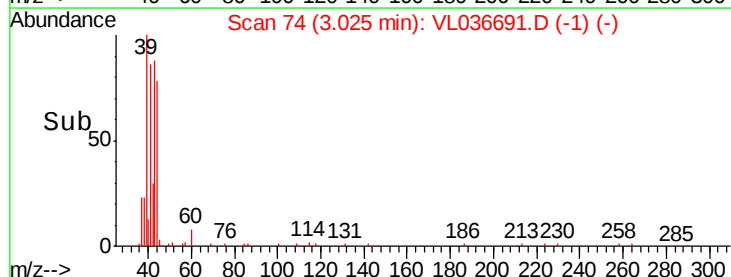
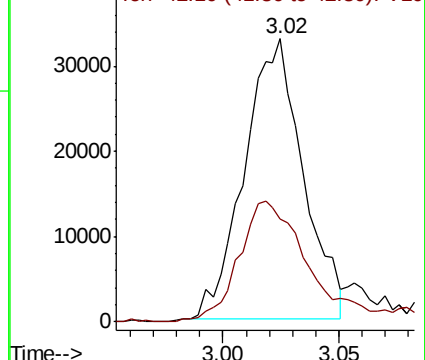
41 100

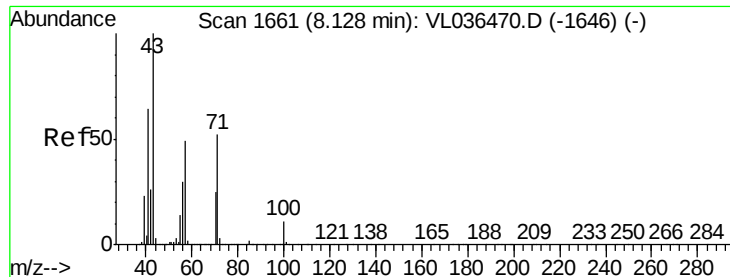
42 54.0 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

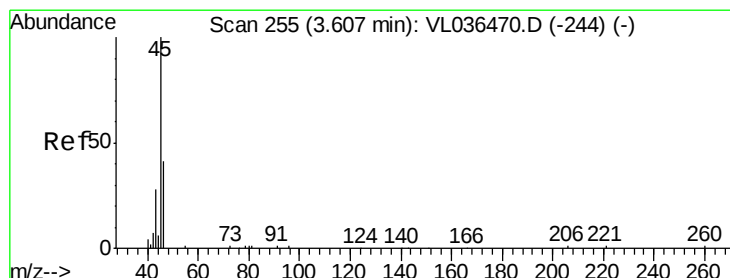
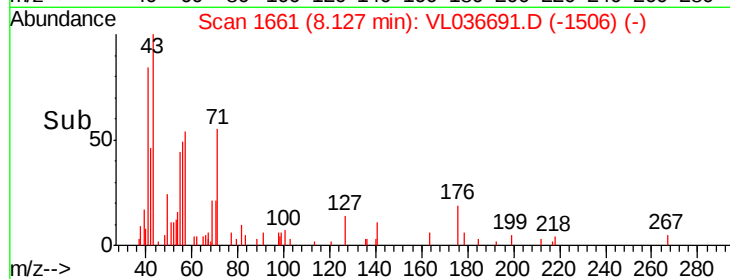
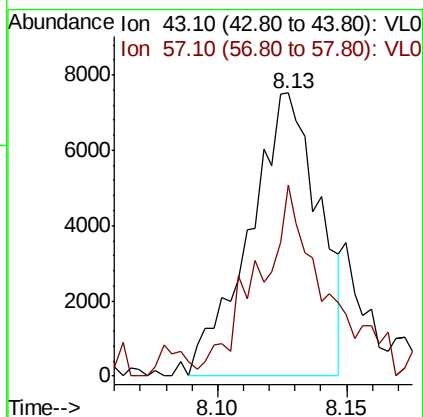
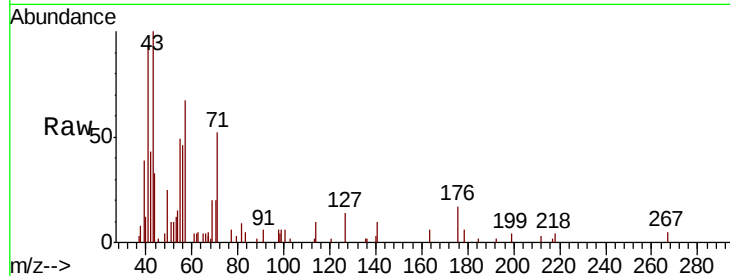




#10
Heptane
Concen: 0.072 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

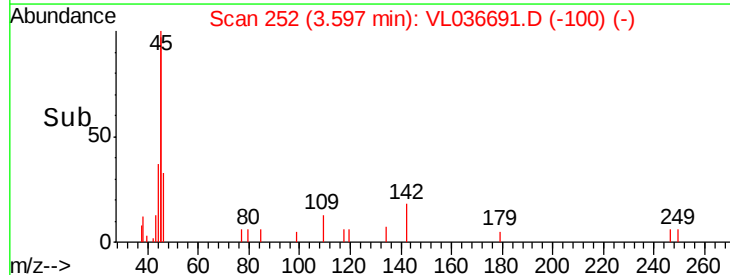
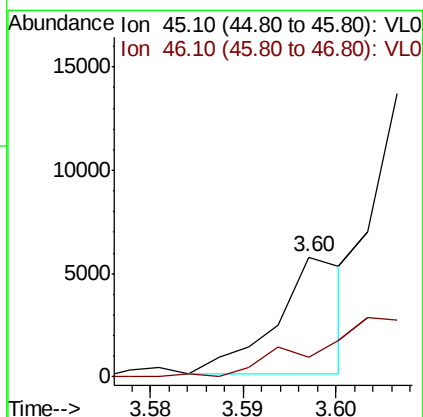
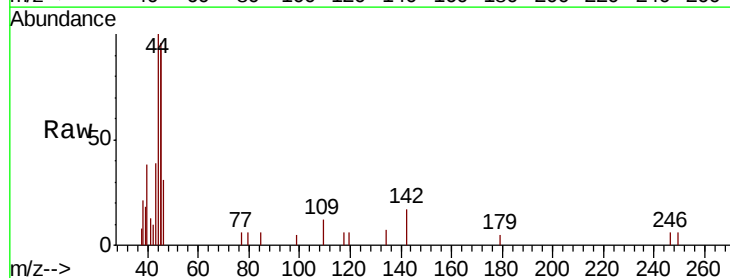
Instrument :
MSVOA_L
ClientSampleId :

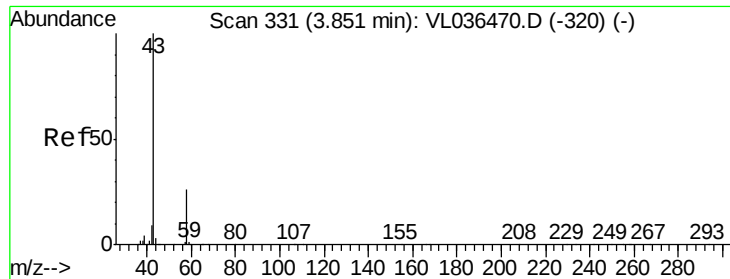
Tot Ion: 43 Resp: 14150
Ion Ratio Lower Upper
43 100
57 75.4 39.0 58.6#



#13
Ethanol
Concen: 0.321 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

Tgt Ion: 45 Resp: 2936
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#

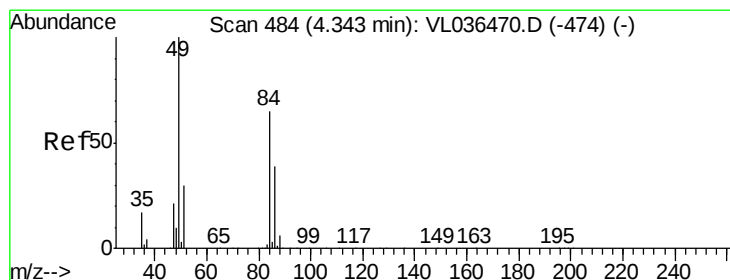
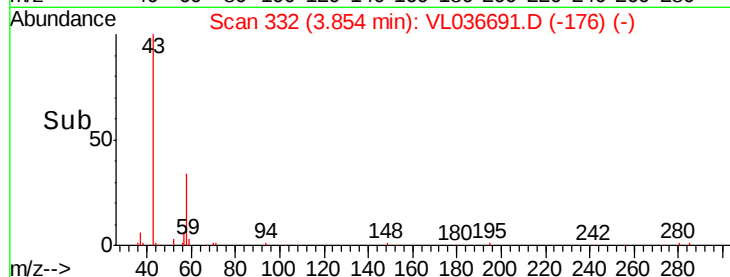
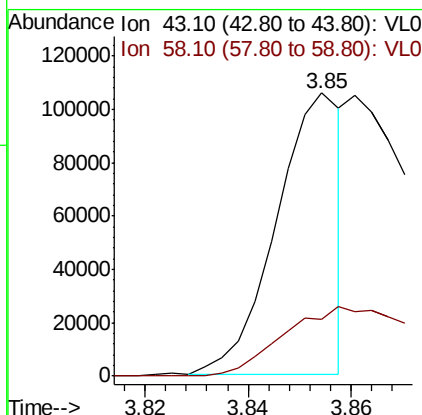
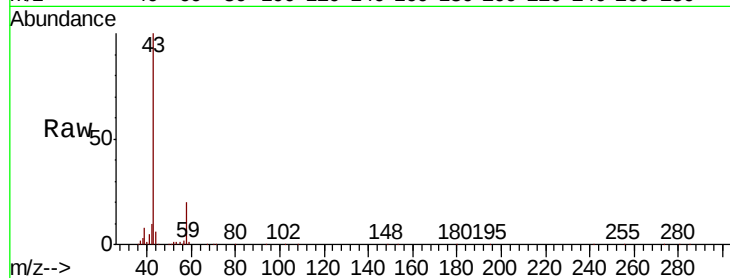




#15
Acetone
Concen: 0.724 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

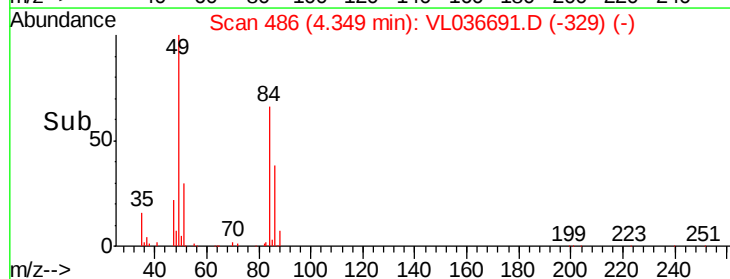
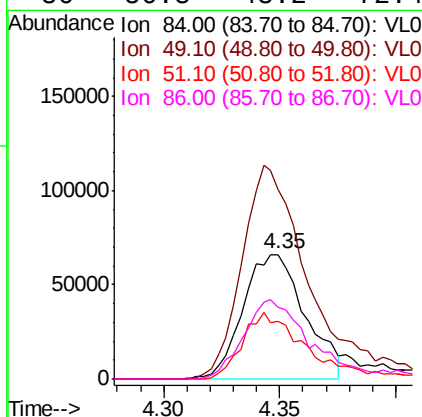
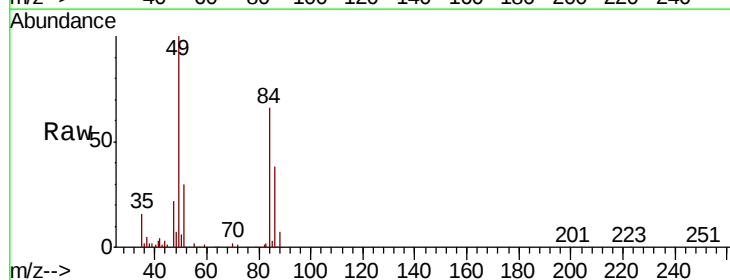
Instrument :
MSVOA_L
ClientSampleId :

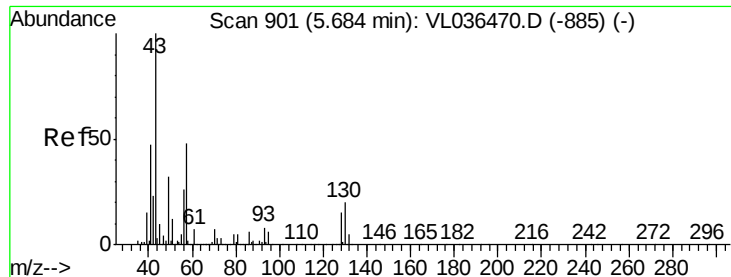
Tot Ion: 43 Resp: 91877
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#



#20
Methylene Chloride
Concen: 2.074 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

Tgt Ion: 84 Resp: 123267
Ion Ratio Lower Upper
84 100
49 151.9 122.9 184.3
51 45.2 36.9 55.3
86 56.8 48.2 72.4

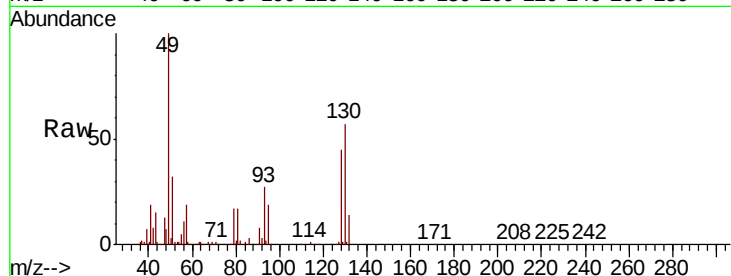




#25
Ethyl Acetate
Concen: 0.233 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	70249
Ion	Ratio	Lower	Upper
43	100		
45	1.3	7.9	11.9#
61	0.5	7.4	11.2#
70	2.6	5.1	7.7#



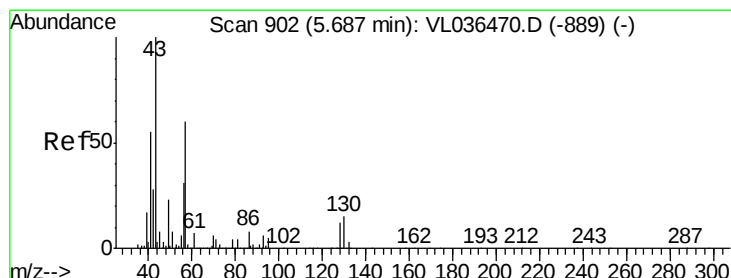
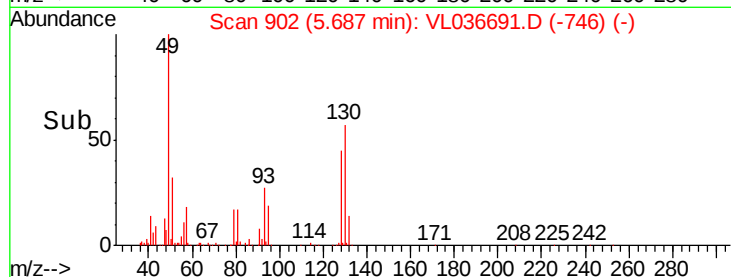
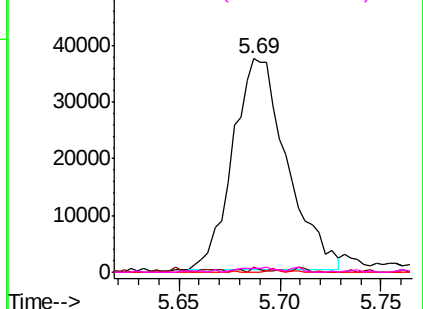
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

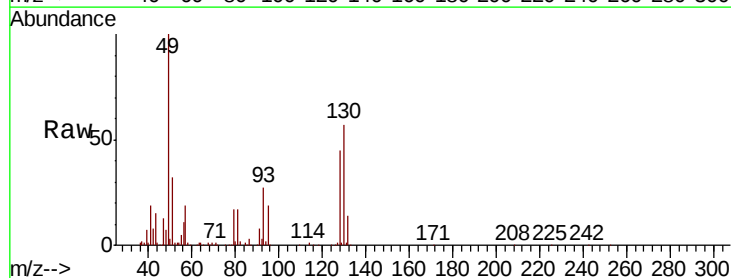
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.665 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036691.D
Acq: 6 Apr 2021 3:00

Tgt Ion:	57	Resp:	93110
Ion	Ratio	Lower	Upper
57	100		
41	116.4	77.2	115.8#
43	82.3	173.8	260.6#
56	65.4	43.8	65.6



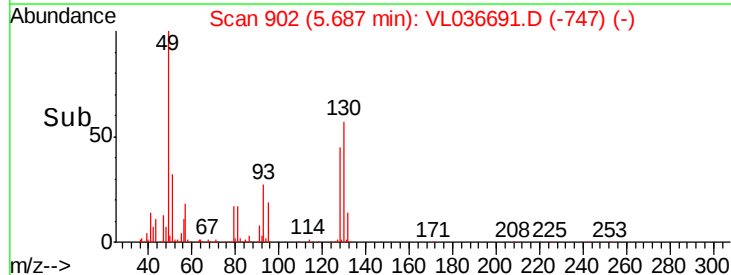
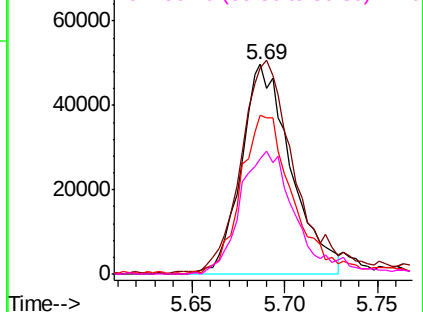
Abundance

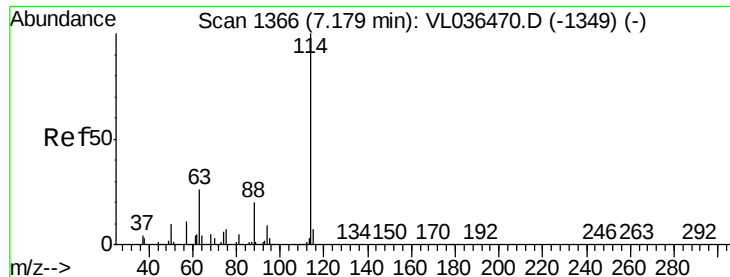
Ion 57.10 (56.80 to 57.80): VL0

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



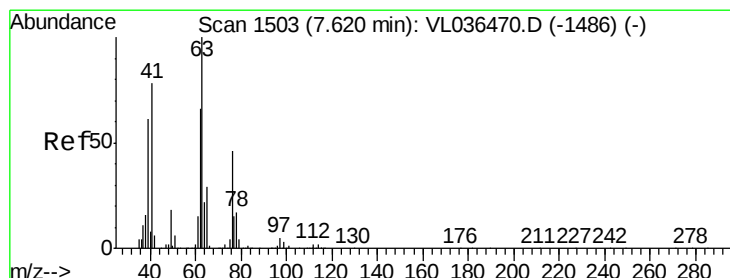
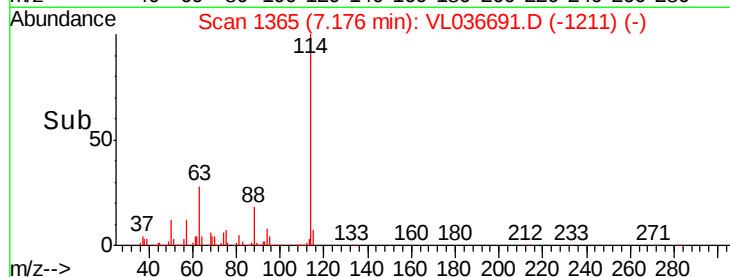
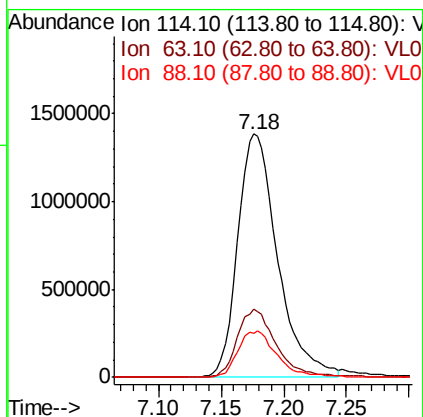
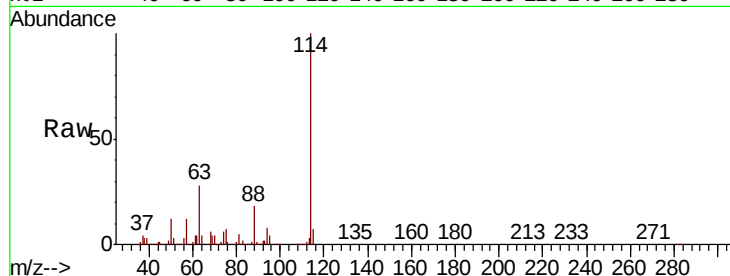


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036691.D
 Acq: 6 Apr 2021 3:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3065007

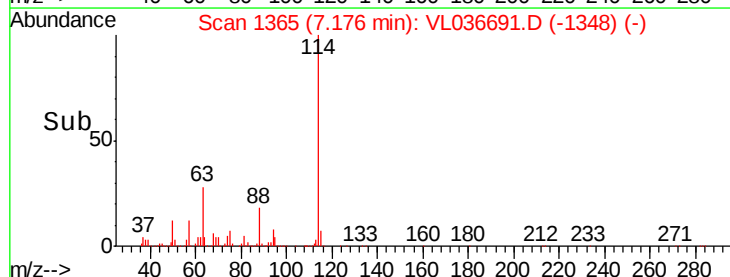
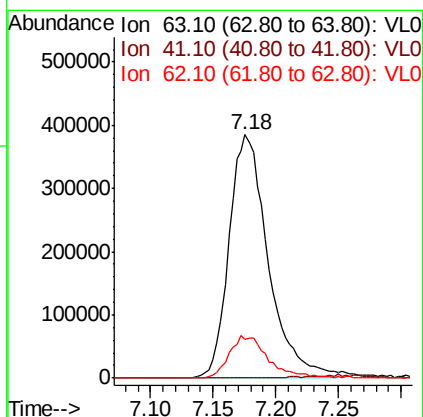
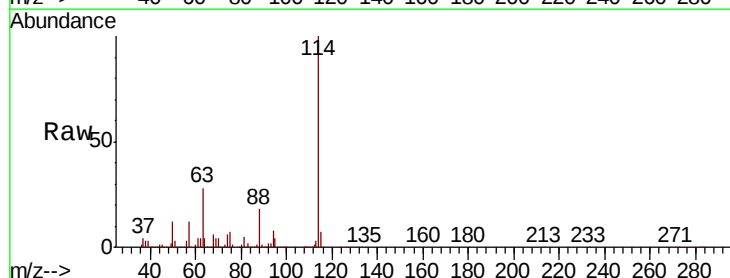
Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.4	33.6
88	19.1	15.4	23.0

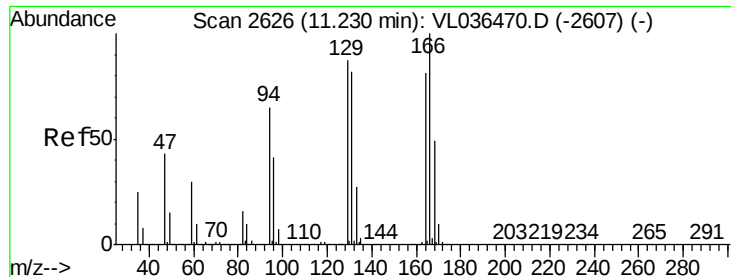


#39
 1,2-Dichloropropane
 Concen: 7.287 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.44 min
 Lab File: VL036691.D
 Acq: 6 Apr 2021 3:00

Tgt Ion: 63 Resp: 835616

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	16.1	52.8	79.2#





#52

Tetrachloroethene

Concen: 3.076 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL036691.D

Acq: 6 Apr 2021 3:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 320229

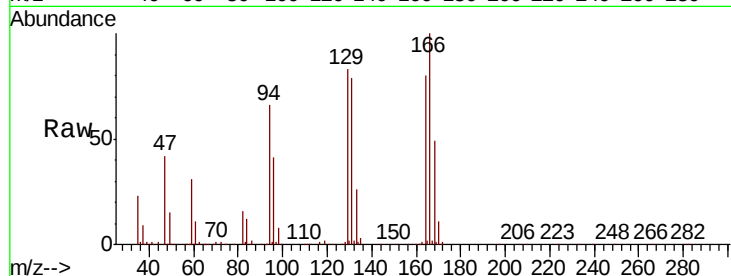
Ion Ratio Lower Upper

164 100

166 124.8 98.3 147.5

129 103.1 85.8 128.8

131 98.6 80.9 121.3

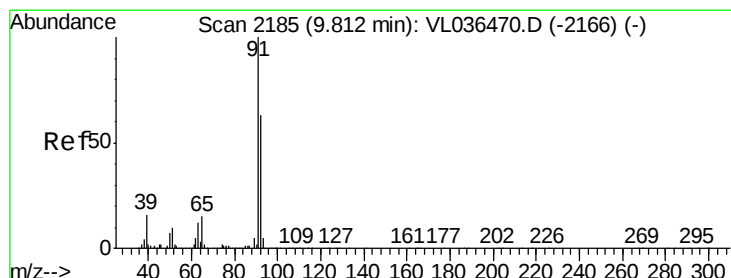
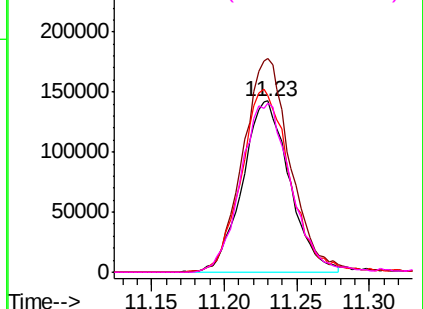
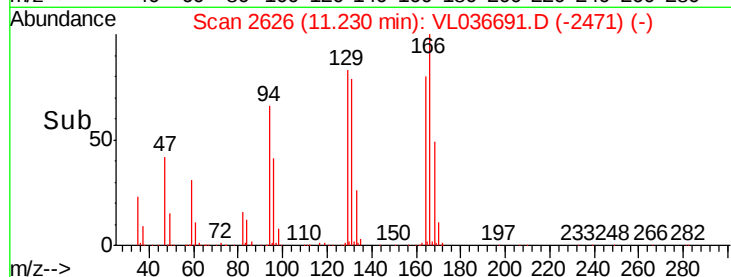


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.046 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036691.D

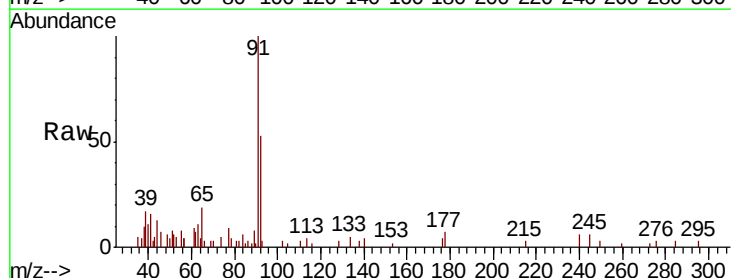
Acq: 6 Apr 2021 3:00

Tgt Ion: 91 Resp: 13754

Ion Ratio Lower Upper

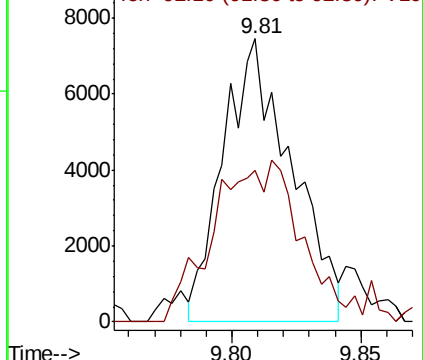
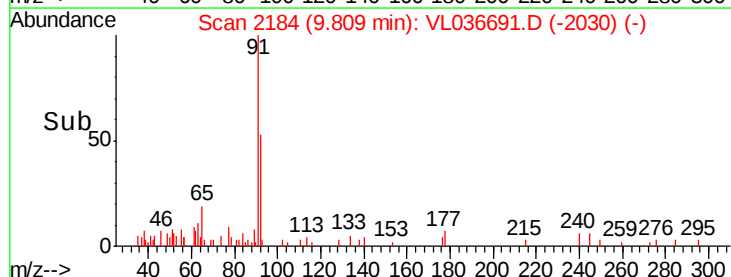
91 100

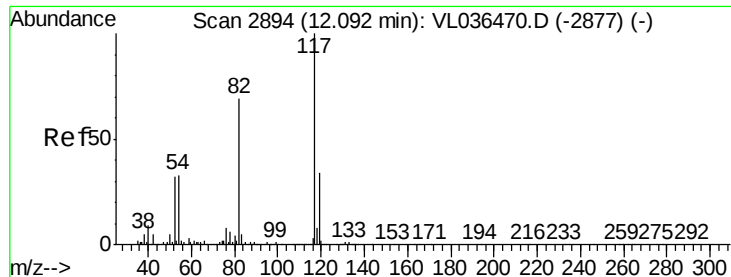
92 77.1 48.8 73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036691.D

Acq: 6 Apr 2021 3:00

Instrument :

MSVOA_L

ClientSampleId :

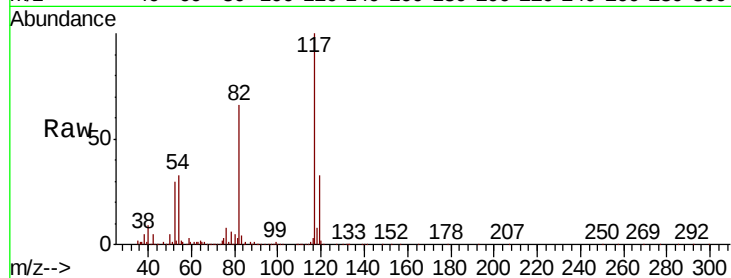
Tot Ion:117 Resp: 2818310

Ion Ratio Lower Upper

117 100

82 68.9 57.4 86.0

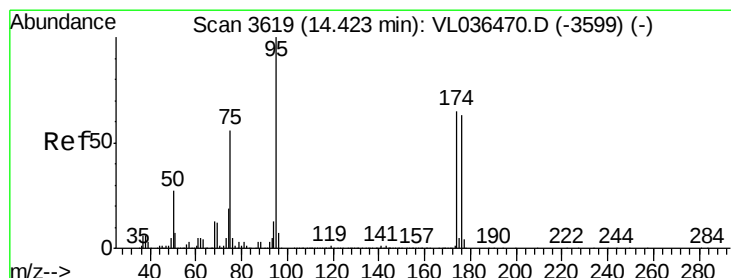
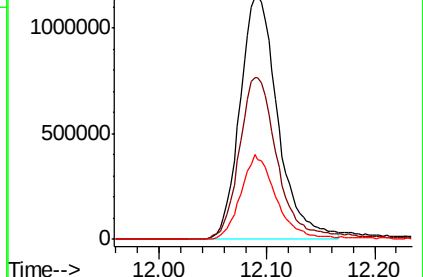
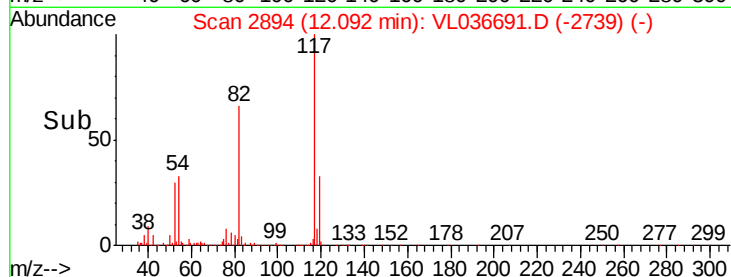
119 32.9 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.764 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036691.D

Acq: 6 Apr 2021 3:00

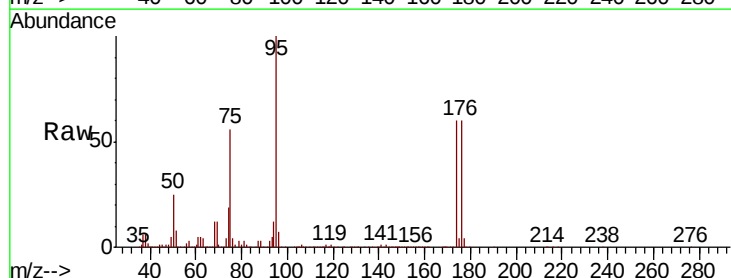
Tgt Ion: 95 Resp: 2193130

Ion Ratio Lower Upper

95 100

174 66.6 51.0 76.6

175 4.9 3.9 5.9



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

