

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038057.D
 Acq On : 18 Nov 2021 17:18
 Operator : SY/AP
 Sample : M4526-01DL 2.5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E058-1100DL

Quant Time: Nov 25 21:25:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	835882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2504464	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2168112	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1567194	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

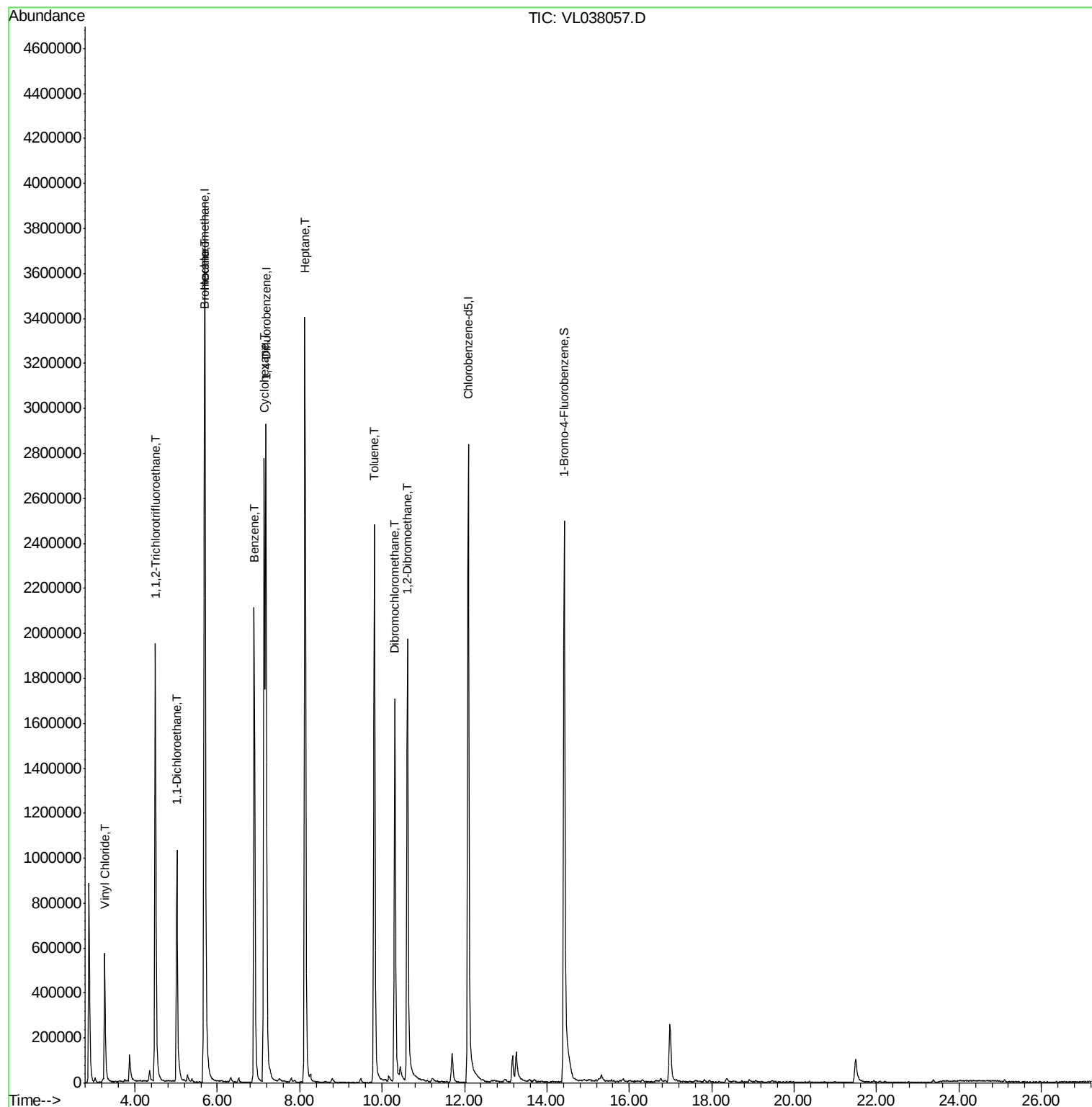
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	629662	10.741	ppbv	99
10) Heptane	8.13	43	1828970	11.447	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	838280	9.025	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1023174	11.712	ppbv	99
26) Hexane	5.70	57	1723903	14.849	ppbv #	42
30) Cyclohexane	7.14	84	1156354	10.971	ppbv	98
36) Benzene	6.90	78	2059708	8.245	ppbv	98
48) Dibromochloromethane	10.31	129	1200080	7.851	ppbv	96
53) Toluene	9.81	91	2317432	8.062	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1990079	14.037	ppbv	99

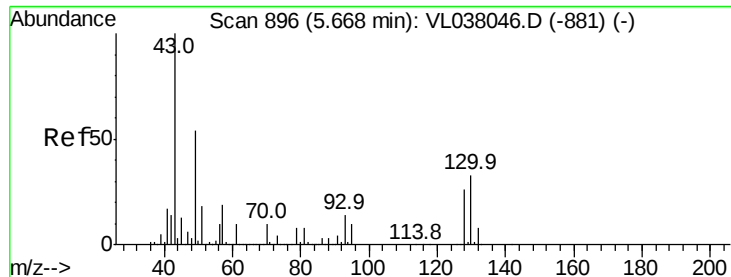
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111821\
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 17:18

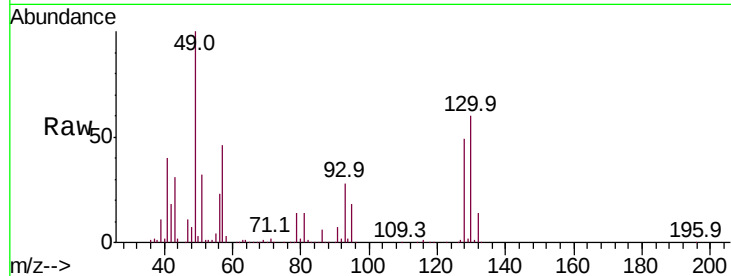
Tot Ion: 49 Resp: 835882

Ion Ratio Lower Upper

49 100

128 51.9 26.5 79.5

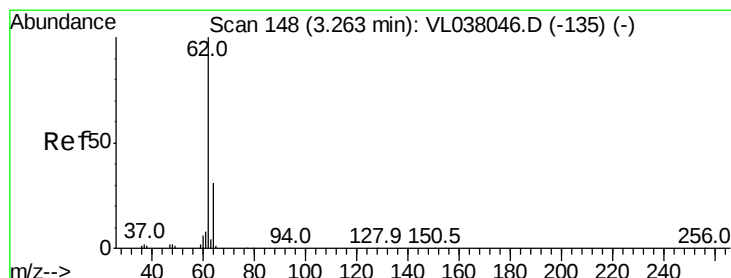
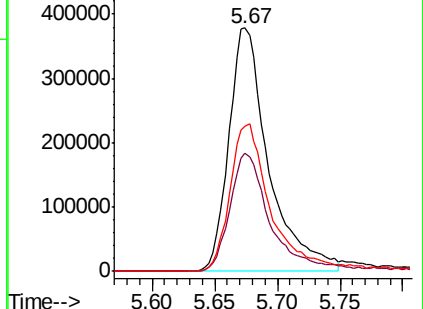
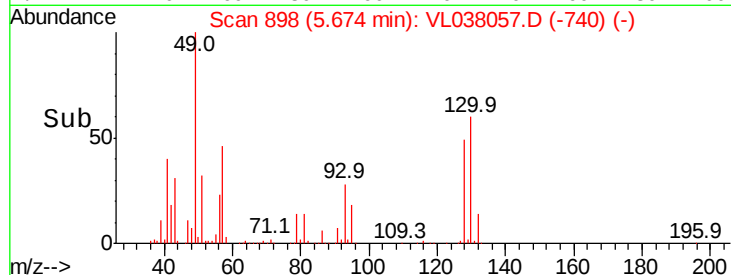
130 65.1 32.5 97.4



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



#5

Vinyl Chloride

Concen: 10.741 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL038057.D

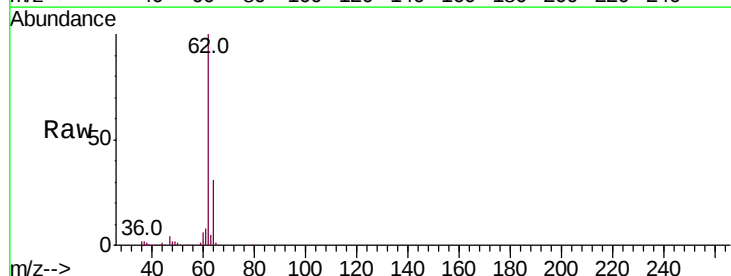
Acq: 18 Nov 2021 17:18

Tgt Ion: 62 Resp: 629662

Ion Ratio Lower Upper

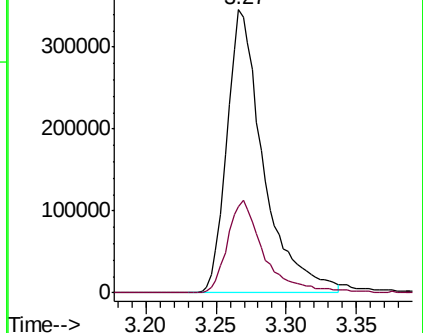
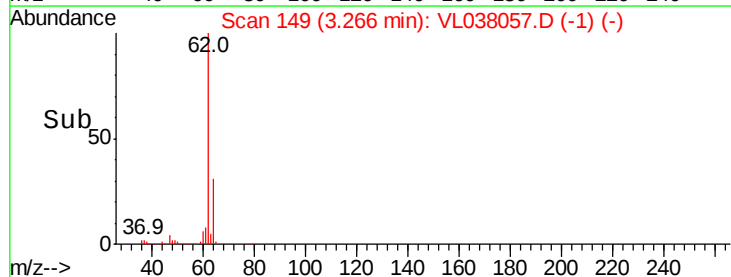
62 100

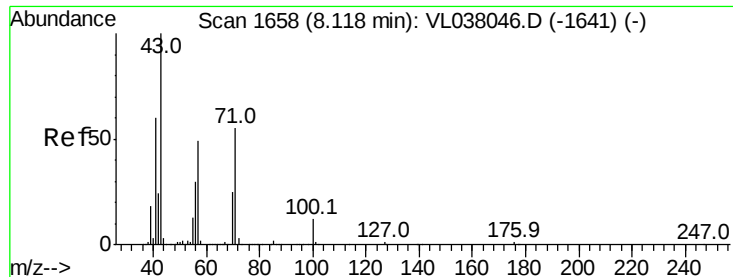
64 30.6 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#10

Heptane

Concen: 11.447 ppbv

RT: 8.13 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

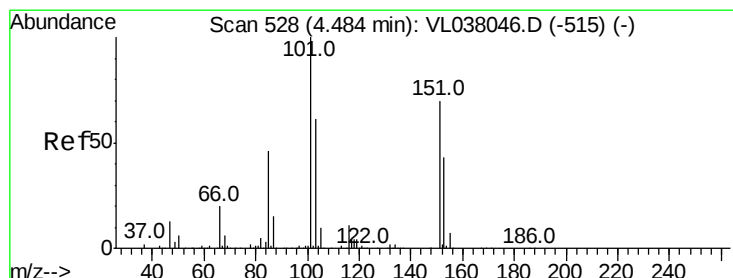
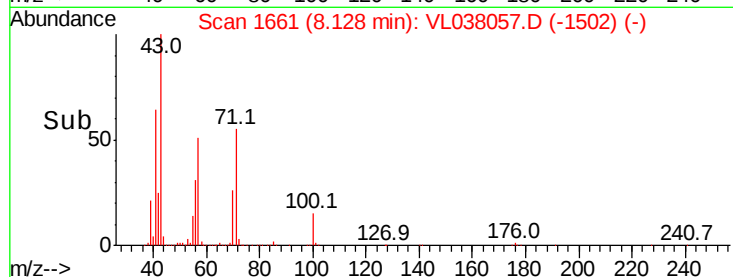
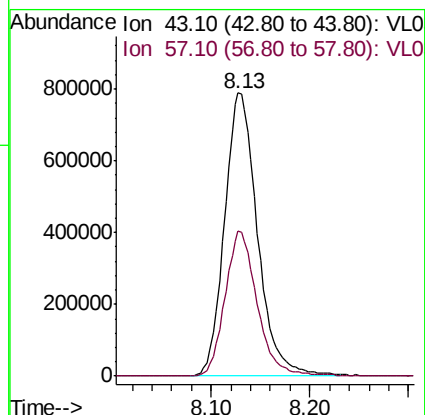
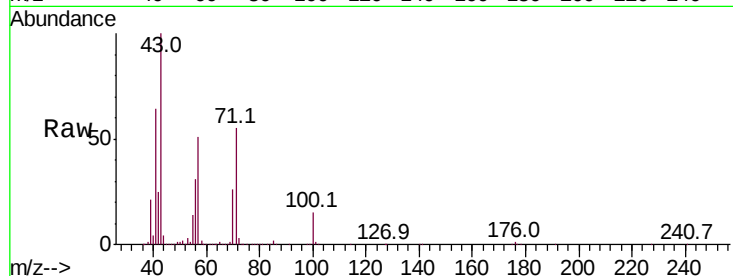
Acq: 18 Nov 2021 17:18 E058-1100DL

Tot Ion: 43 Resp: 1828970

Ion Ratio Lower Upper

43 100

57 50.6 40.4 60.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.025 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL038057.D

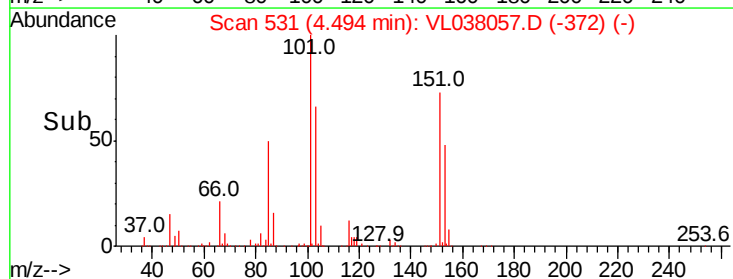
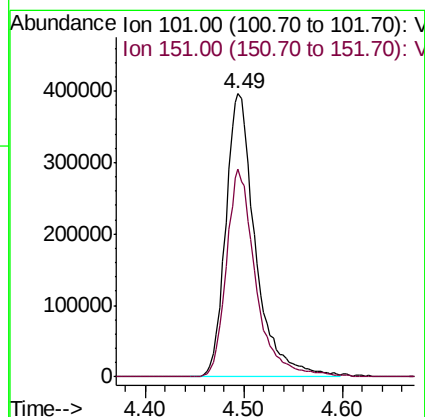
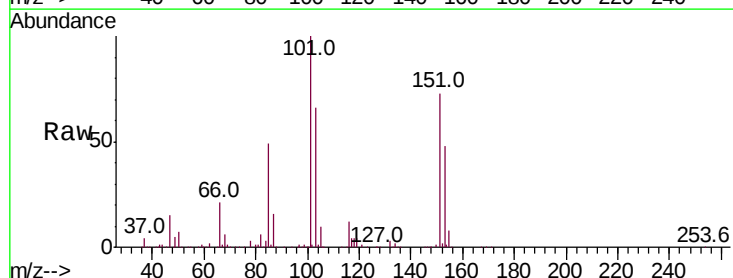
Acq: 18 Nov 2021 17:18

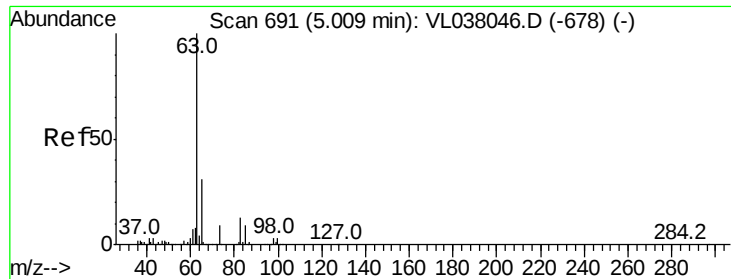
Tgt Ion: 101 Resp: 838280

Ion Ratio Lower Upper

101 100

151 72.9 59.0 88.4





#24

1,1-Dichloroethane

Concen: 11.712 ppbv

RT: 5.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 17:18

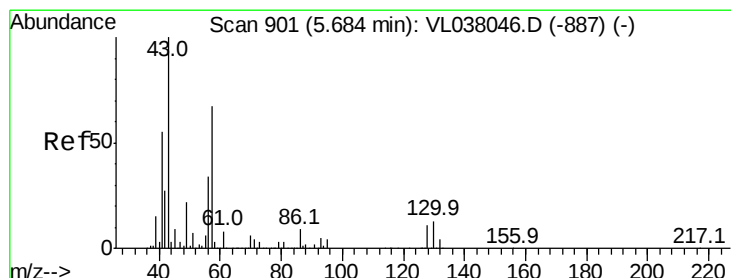
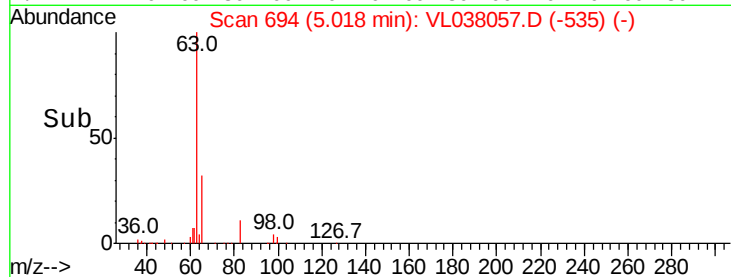
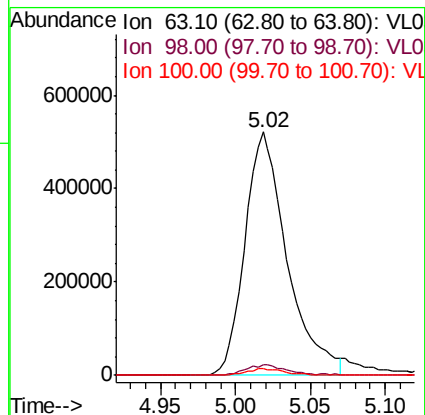
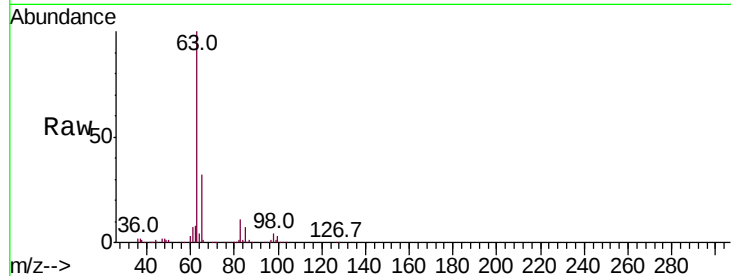
Tot Ion: 63 Resp: 1023174

Ion Ratio Lower Upper

63 100

98 4.1 1.8 5.4

100 2.7 1.4 4.0



#26

Hexane

Concen: 14.849 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL038057.D

Acq: 18 Nov 2021 17:18

Tgt Ion: 57 Resp: 1723903

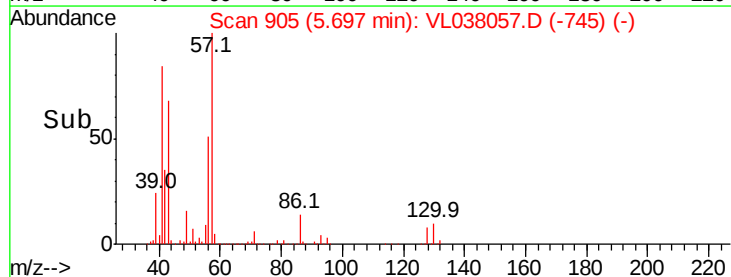
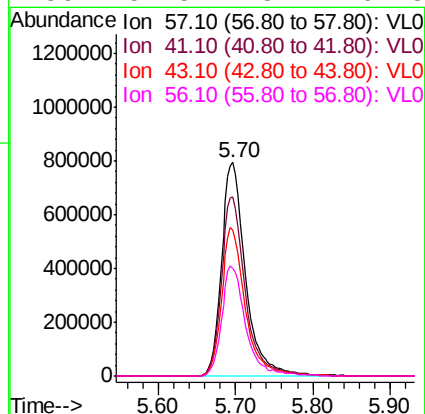
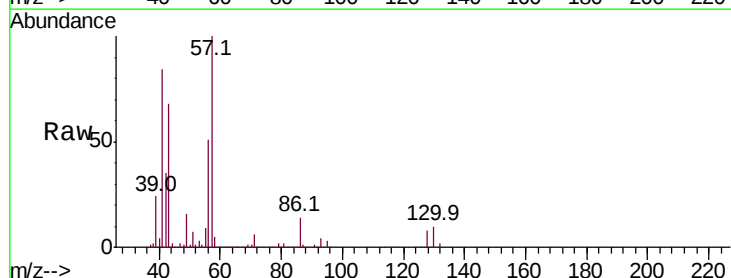
Ion Ratio Lower Upper

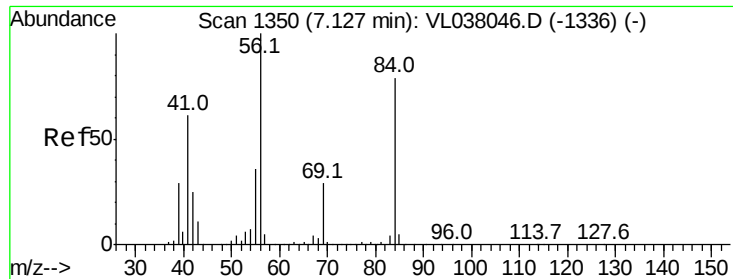
57 100

41 84.2 71.4 107.2

43 68.5 174.6 261.8#

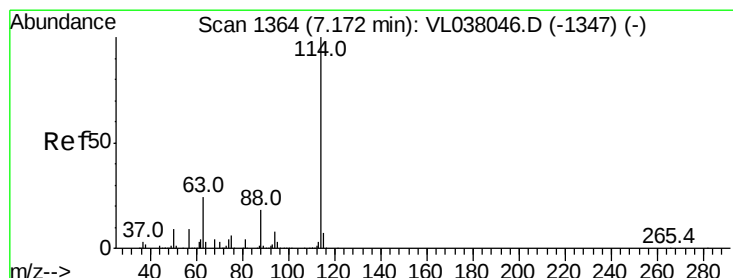
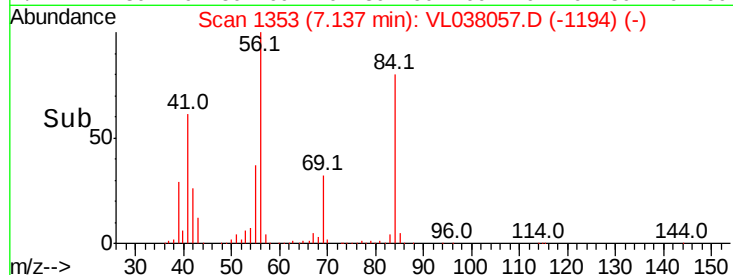
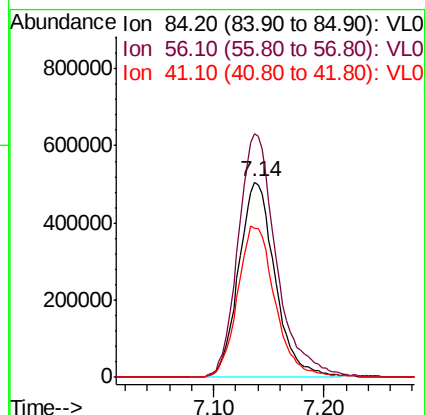
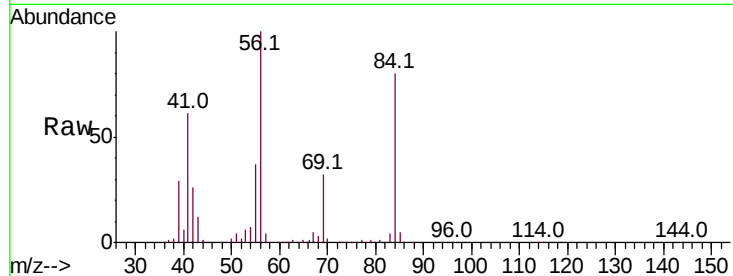
56 51.5 43.2 64.8





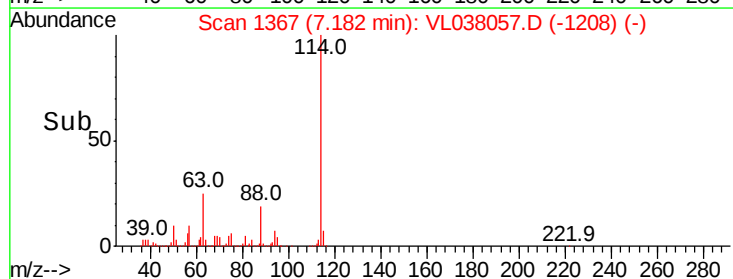
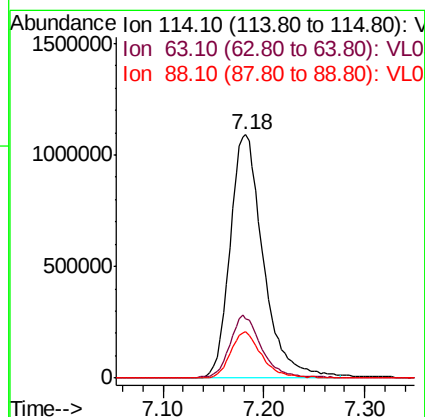
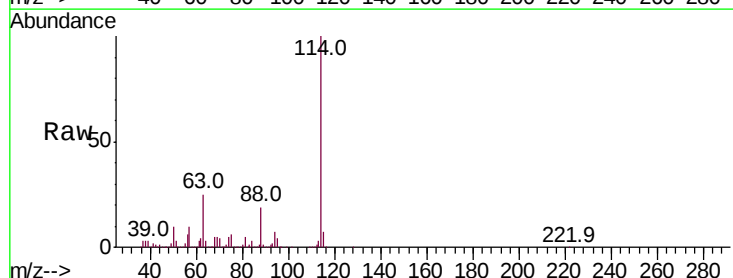
#30
Cvclohexane
Concen: 10.971 ppbv
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 17:18

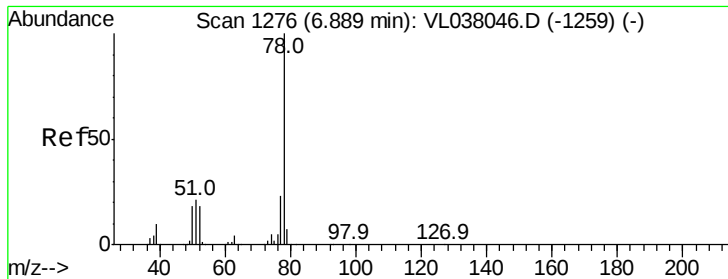
Tot Ion: 84 Resp: 1156354
Ion Ratio Lower Upper
84 100
56 132.2 108.1 162.1
41 79.8 64.4 96.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL038057.D
Acq: 18 Nov 2021 17:18

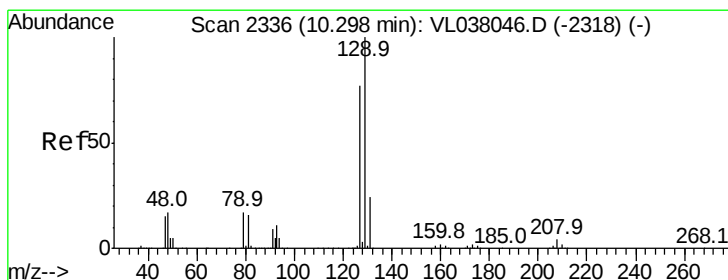
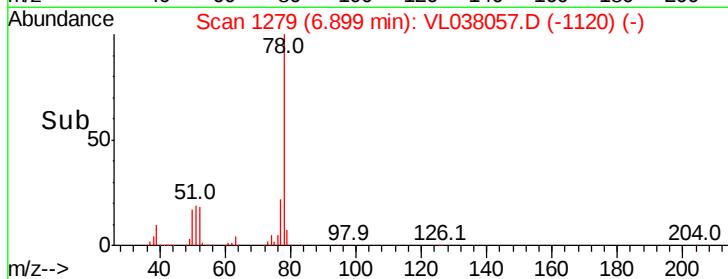
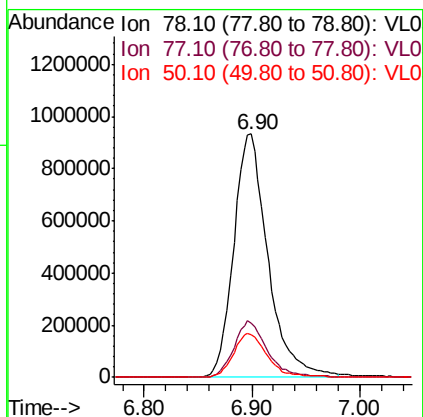
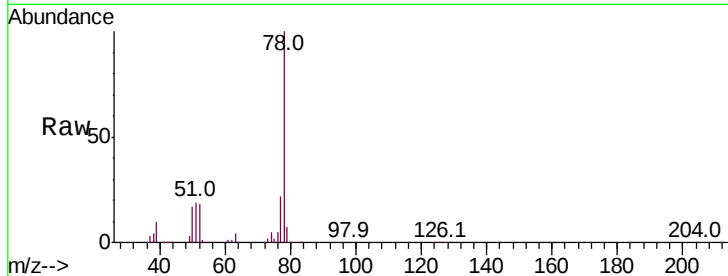
Tgt Ion:114 Resp: 2504464
Ion Ratio Lower Upper
114 100
63 25.3 19.7 29.5
88 18.2 14.4 21.6





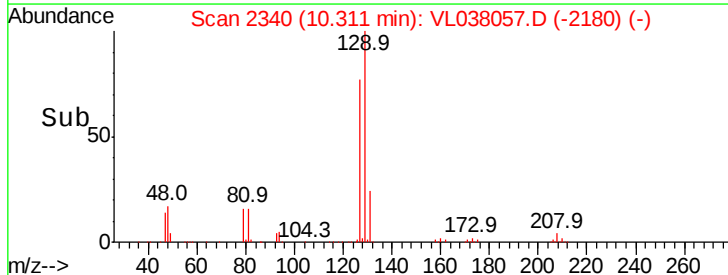
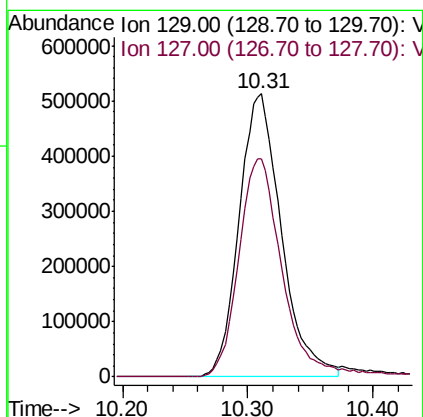
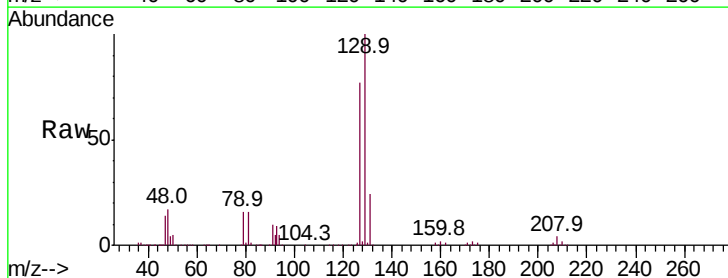
#36
Benzene
Concen: 8.245 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 17:18

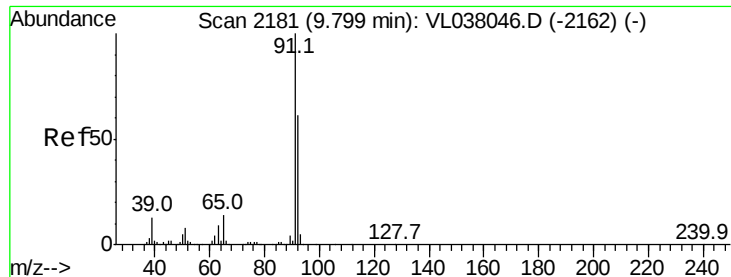
Tot Ion: 78 Resp: 2059708
Ion Ratio Lower Upper
78 100
77 22.2 18.2 27.4
50 17.3 14.7 22.1



#48
Dibromochloromethane
Concen: 7.851 ppbv
RT: 10.31 min Scan# 2340
Delta R.T. 0.01 min
Lab File: VL038057.D
Acq: 18 Nov 2021 17:18

Tgt Ion: 129 Resp: 1200080
Ion Ratio Lower Upper
129 100
127 82.2 39.4 118.1





#53

Toluene

Concen: 8.062 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

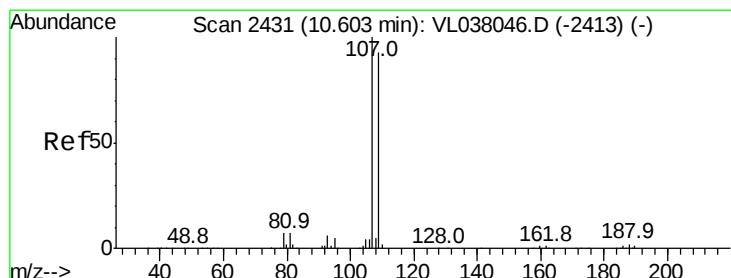
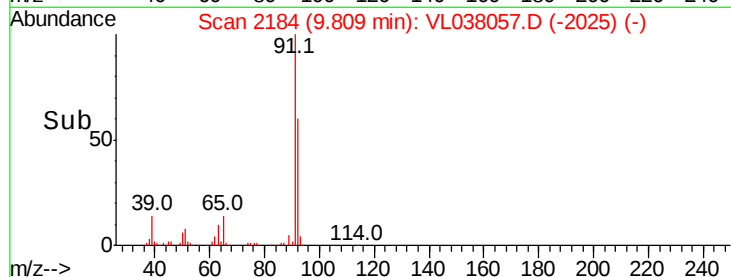
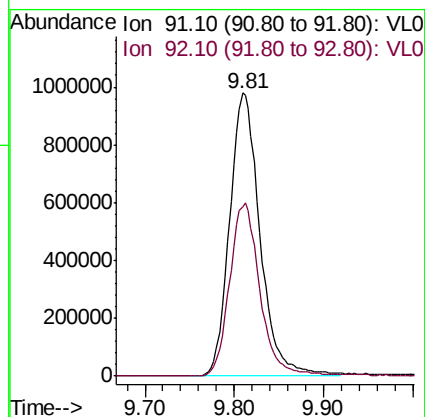
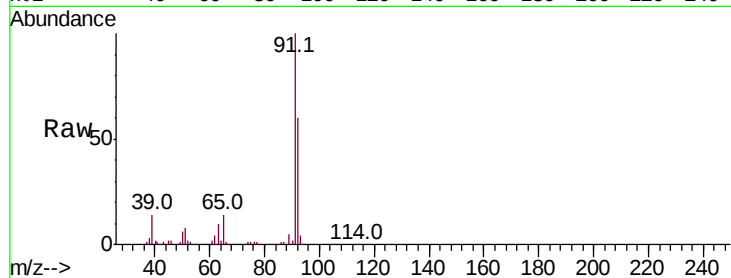
Acq: 18 Nov 2021 17:18 E058-1100DL

Tot Ion: 91 Resp: 2317432

Ion Ratio Lower Upper

91 100

92 62.4 49.7 74.5



#54

1,2-Dibromoethane

Concen: 14.037 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL038057.D

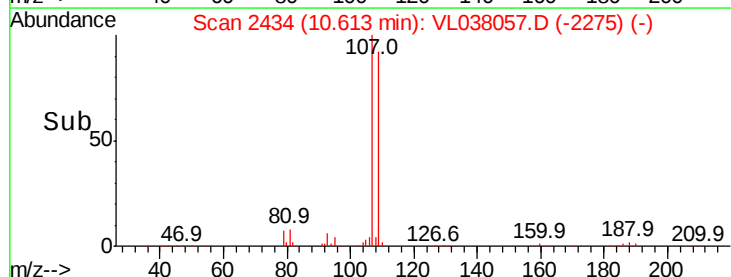
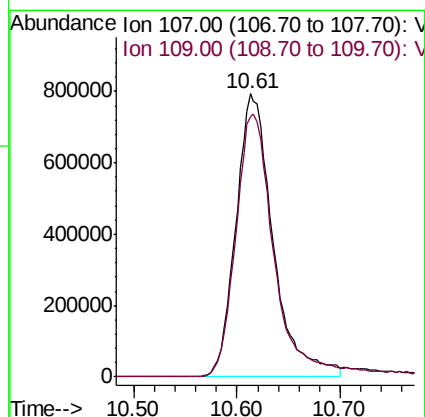
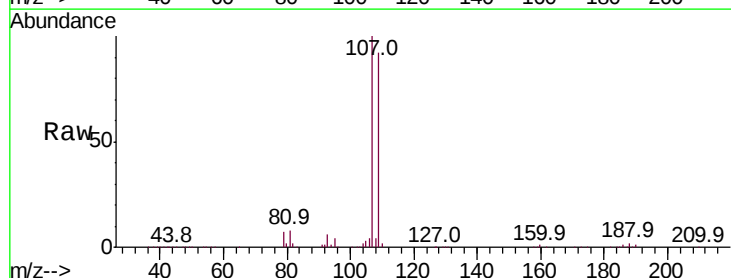
Acq: 18 Nov 2021 17:18

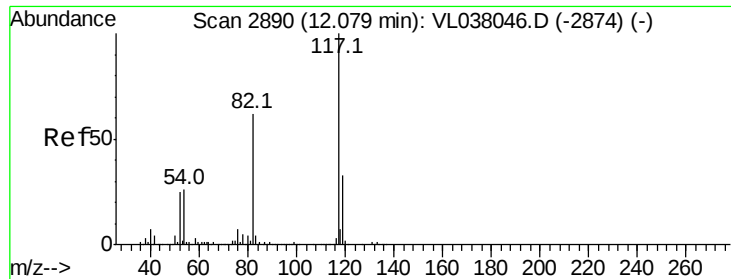
Tgt Ion: 107 Resp: 1990079

Ion Ratio Lower Upper

107 100

109 92.2 74.6 111.8

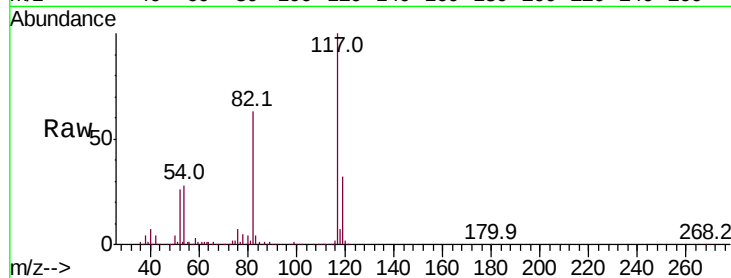




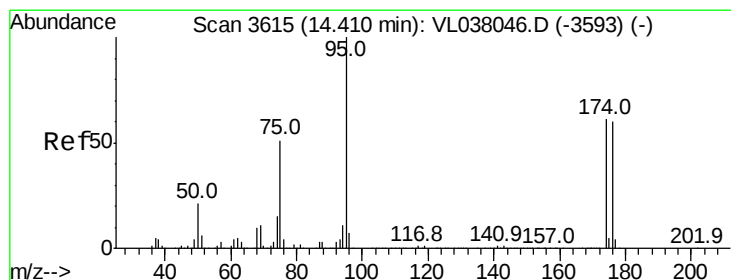
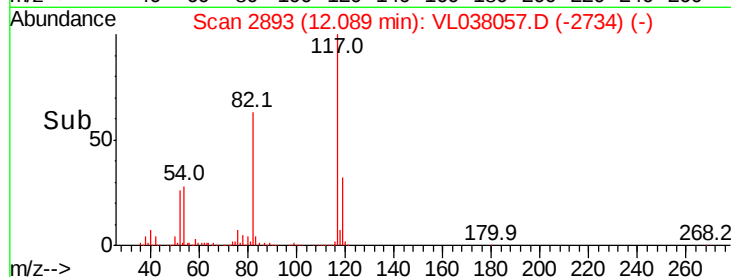
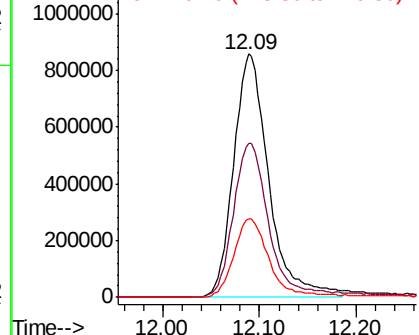
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : E058-1100DL
Acq: 18 Nov 2021 17:18

Tot Ion:117 Resp: 2168112

Ion	Ratio	Lower	Upper
117	100		
82	68.3	52.8	79.2
119	33.1	26.8	40.2



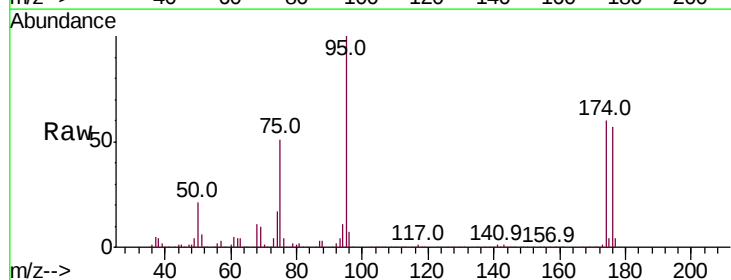
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.021 ppbv
RT: 14.42 min Scan# 3618
Delta R.T.: 0.01 min
Lab File: VL038057.D
Acq: 18 Nov 2021 17:18

Tgt Ion: 95 Resp: 1567194

Ion	Ratio	Lower	Upper
95	100		
174	66.1	53.1	79.7
175	4.6	4.0	6.0



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

