

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038189.D
 Acq On : 16 Dec 2021 14:43
 Operator : SY/AP
 Sample : M5117-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:08:25 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

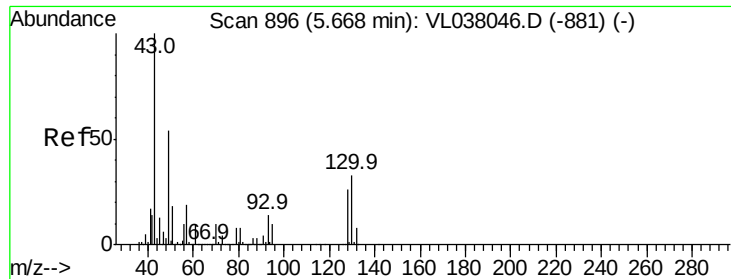
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1079193	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2821518	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2385123	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1870056	10.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.70%

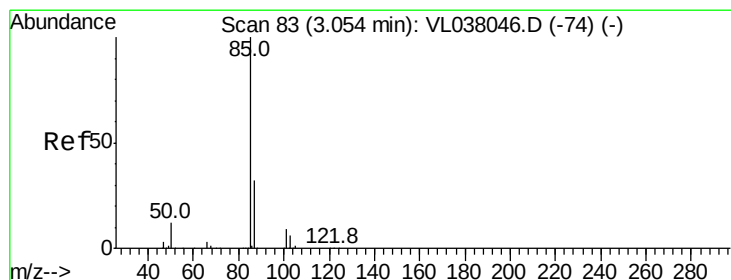
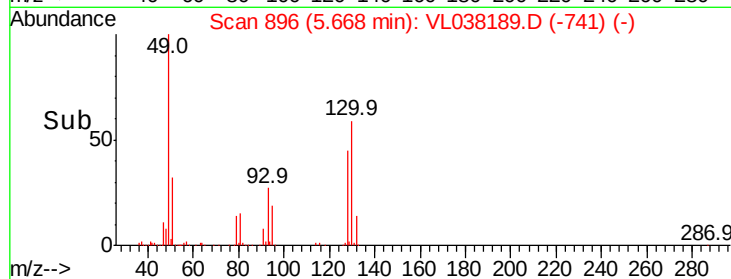
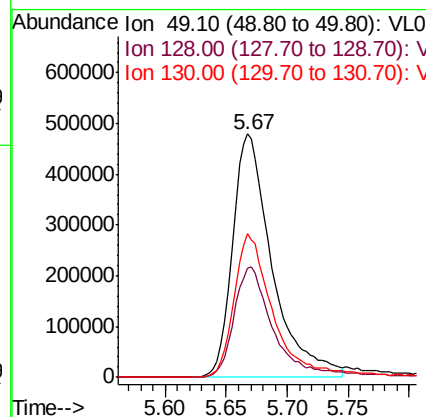
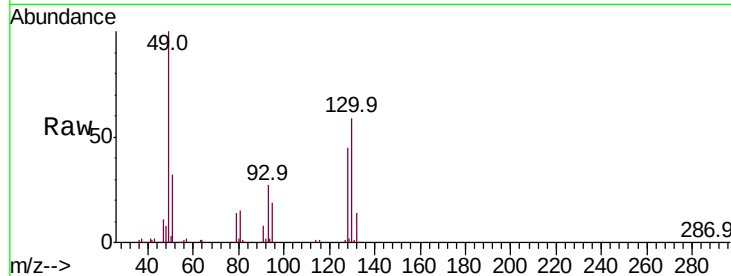
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	9214	0.052	ppbv	94
3) Chlorodifluoromethane	3.00	51	38389	0.169	ppbv #	91
4) Chloromethane	3.15	50	2923	0.038	ppbv	92
9) Propene	3.21	41	25003	0.300	ppbv	94
13) Ethanol	3.62	45	38561	4.781	ppbv #	1
15) Acetone	3.86	43	71238	0.761	ppbv #	89
19) Isopropyl Alcohol	3.98	45	19933	0.295	ppbv #	89
20) Methylene Chloride	4.35	84	159989	3.053	ppbv	94
25) Ethyl Acetate	5.69	43	40323	0.130	ppbv #	82
26) Hexane	5.69	57	95728	0.639	ppbv #	44
34) 2-Butanone	5.26	43	3834	0.034	ppbv #	70
39) 1,2-Dichloropropane	7.17	63	739719	6.851	ppbv #	26
53) Toluene	9.81	91	33800	0.104	ppbv	99

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



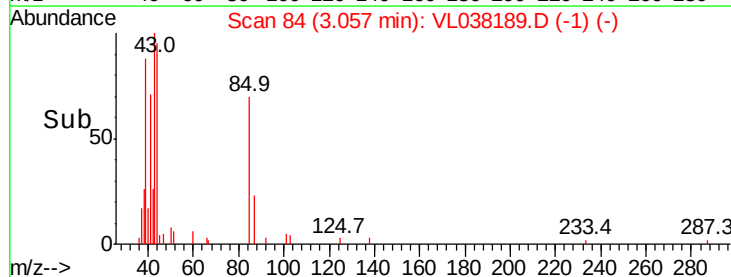
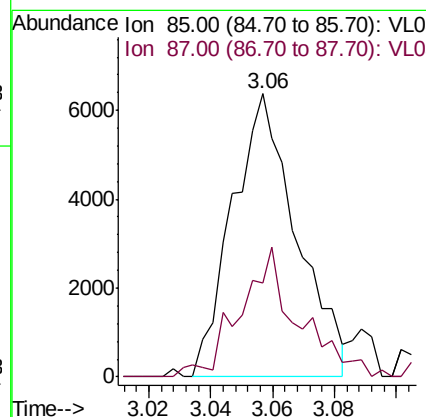
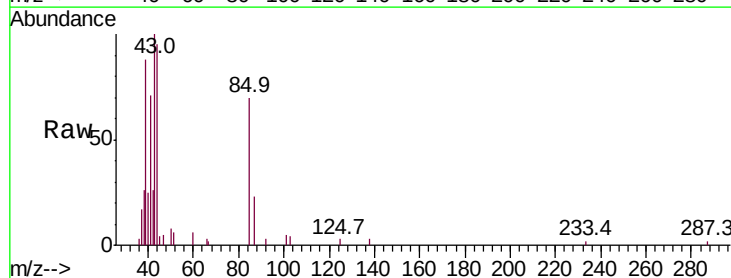
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 14:43

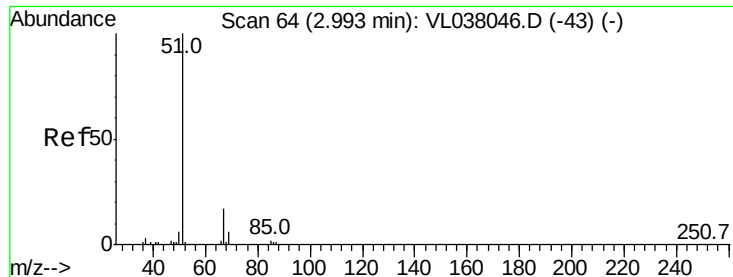
Tot Ion: 49 Resp: 1079193
 Ion Ratio Lower Upper
 49 100
 128 47.7 26.5 79.5
 130 60.8 32.5 97.4



#2
 Dichlorodifluoromethane
 Concen: 0.052 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T.: 0.00 min
 Lab File: VL038189.D
 Acq: 16 Dec 2021 14:43

Tgt Ion: 85 Resp: 9214
 Ion Ratio Lower Upper
 85 100
 87 28.8 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.169 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

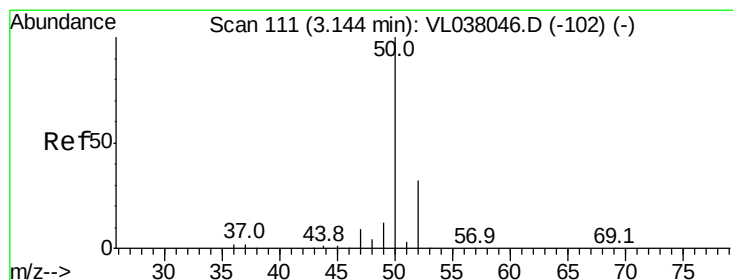
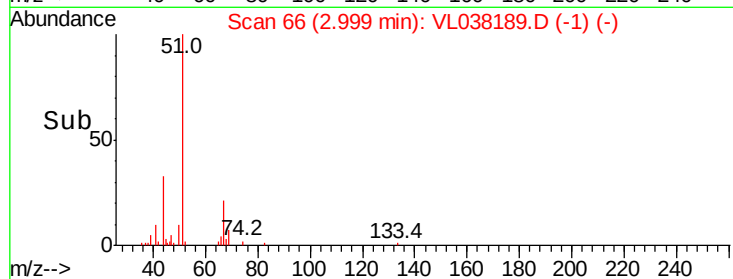
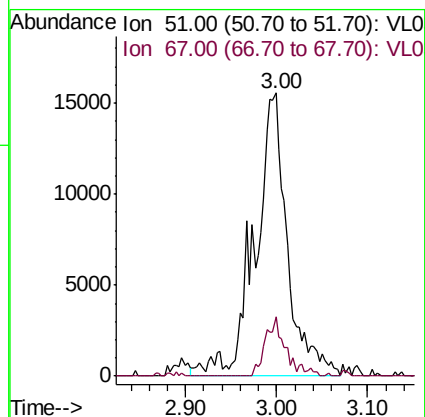
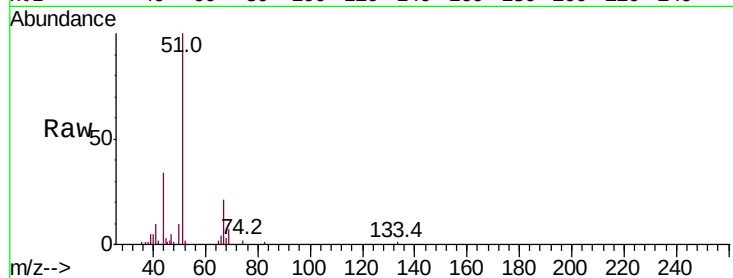
Acq: 16 Dec 2021 14:43

Tot Ion: 51 Resp: 38389

Ion Ratio Lower Upper

51 100

67 13.2 13.8 20.8#



#4

Chloromethane

Concen: 0.038 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038189.D

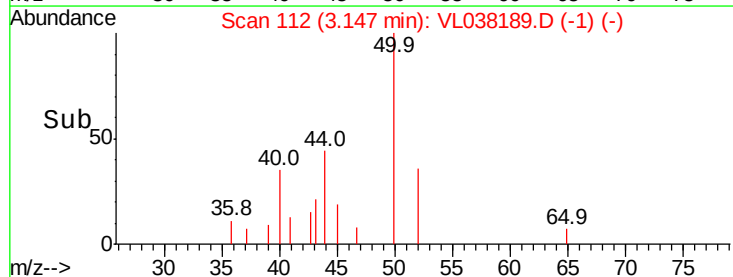
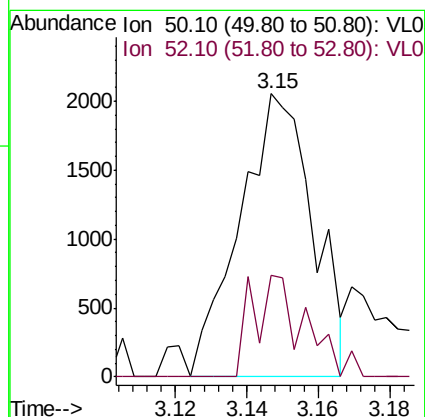
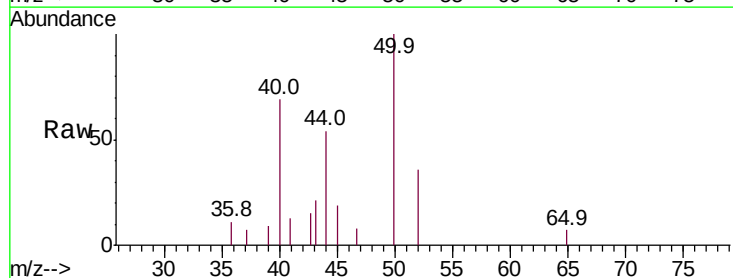
Acq: 16 Dec 2021 14:43

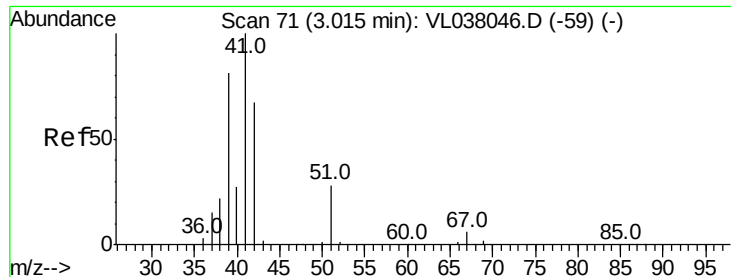
Tgt Ion: 50 Resp: 2923

Ion Ratio Lower Upper

50 100

52 35.9 25.4 38.0





#9

Propene

Concen: 0.300 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

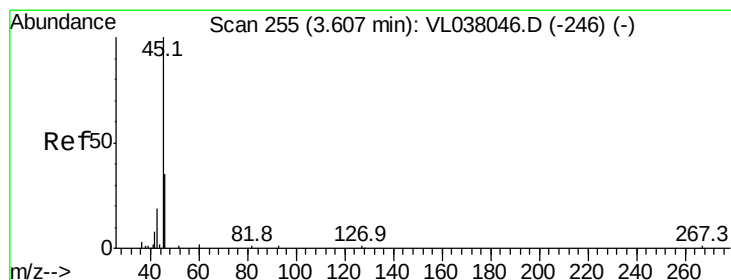
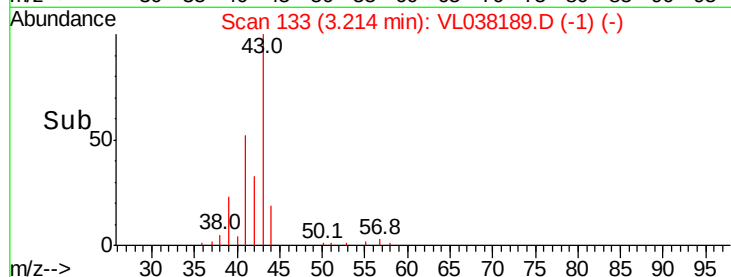
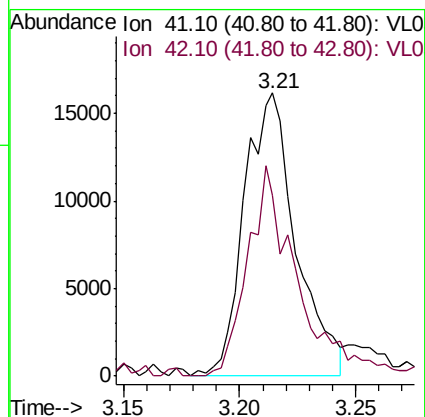
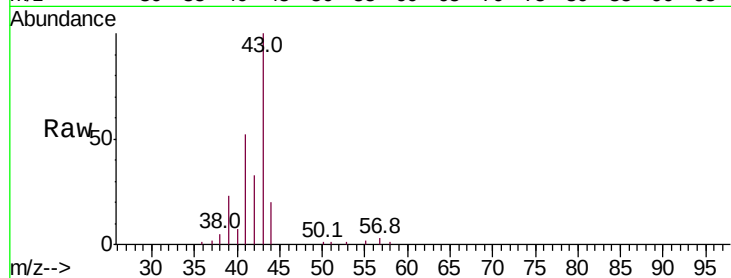
Acq: 16 Dec 2021 14:43

Tot Ion: 41 Resp: 25003

Ion Ratio Lower Upper

41 100

42 72.1 53.8 80.8



#13

Ethanol

Concen: 4.781 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL038189.D

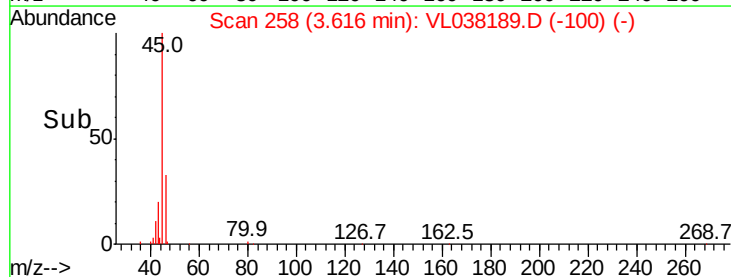
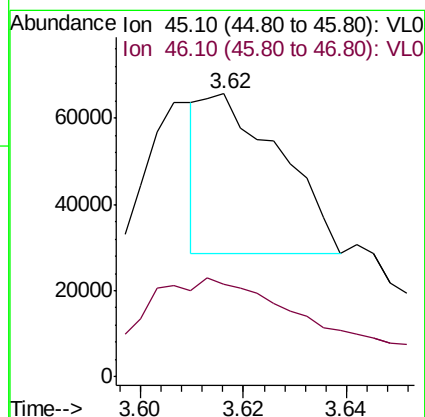
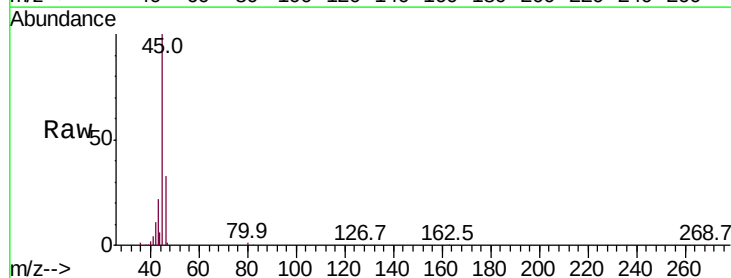
Acq: 16 Dec 2021 14:43

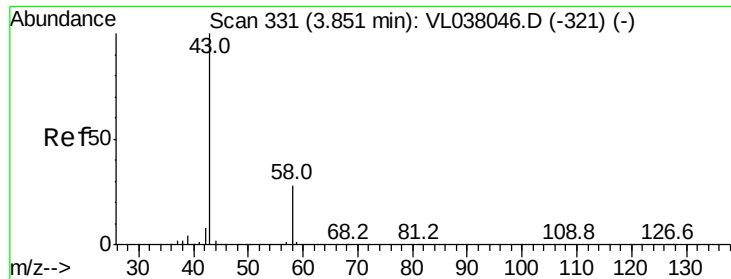
Tgt Ion: 45 Resp: 38561

Ion Ratio Lower Upper

45 100

46 194.1 17.6 70.2#





#15

Acetone

Concen: 0.761 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File:

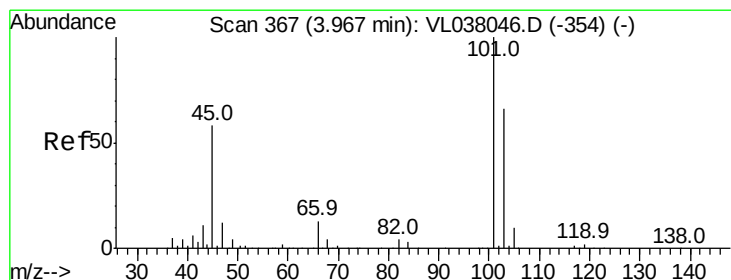
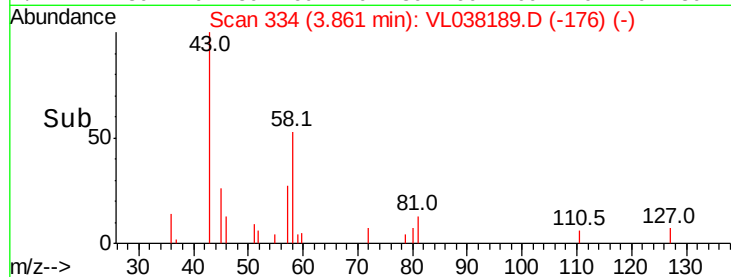
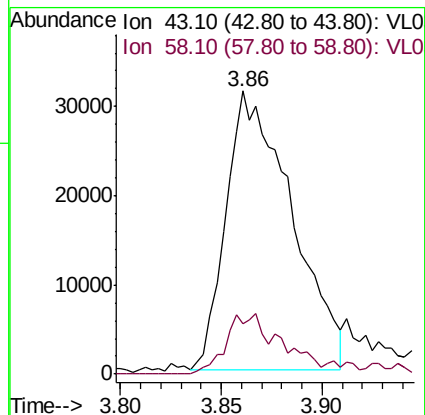
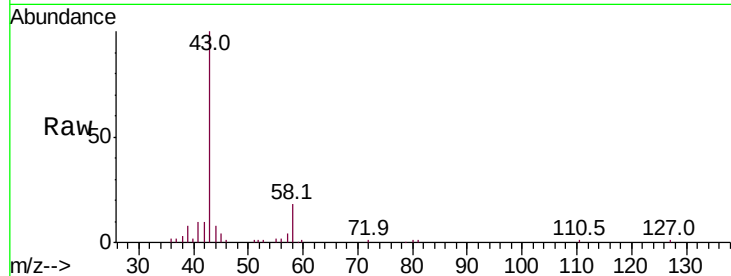
Acq: 16 Dec 2021 14:43

Tot Ion: 43 Resp: 71238

Ion Ratio Lower Upper

43 100

58 22.3 22.4 33.6#



#19

Isopropyl Alcohol

Concen: 0.295 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL038189.D

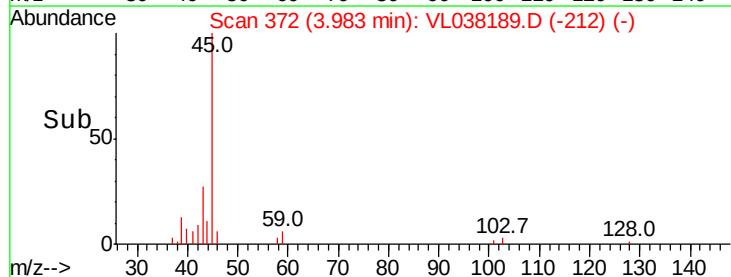
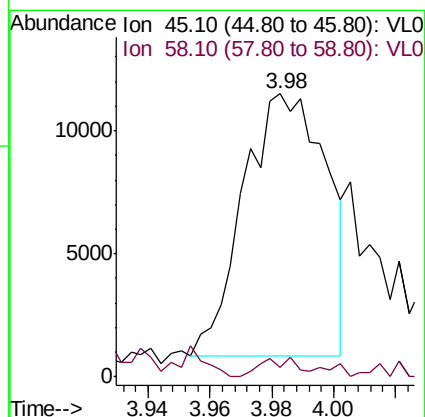
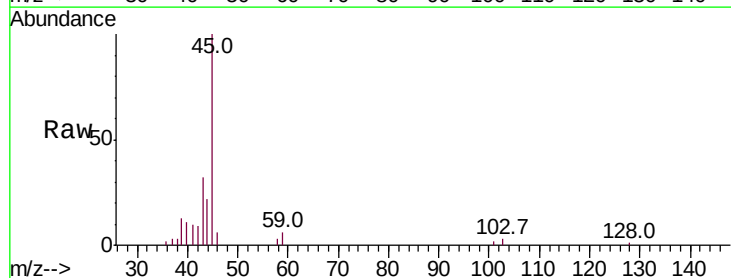
Acq: 16 Dec 2021 14:43

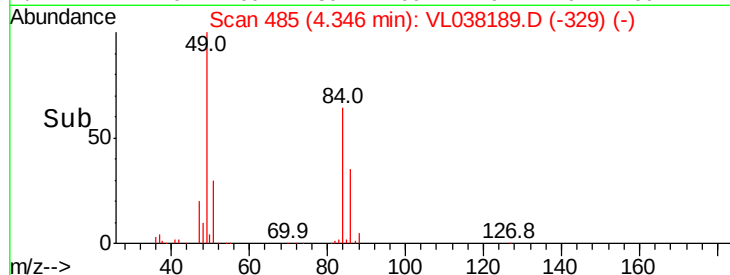
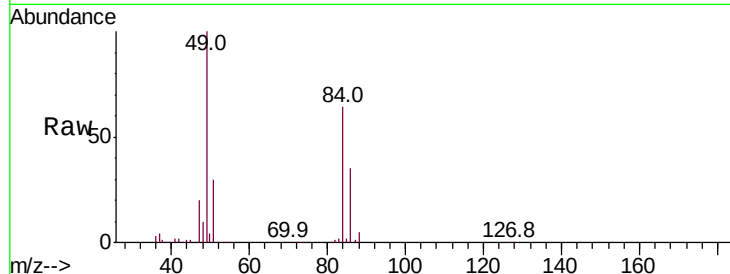
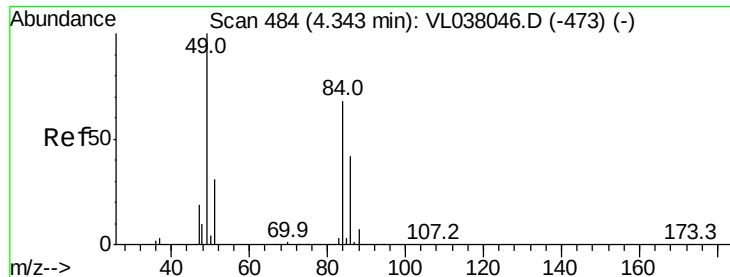
Tgt Ion: 45 Resp: 19933

Ion Ratio Lower Upper

45 100

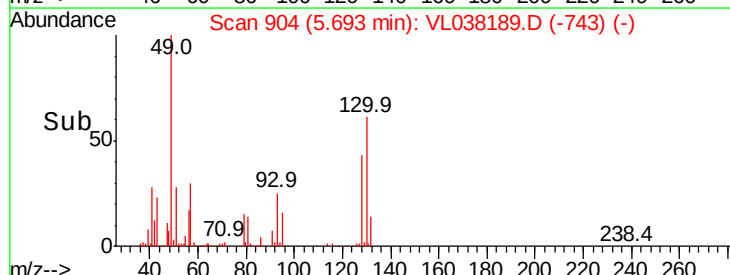
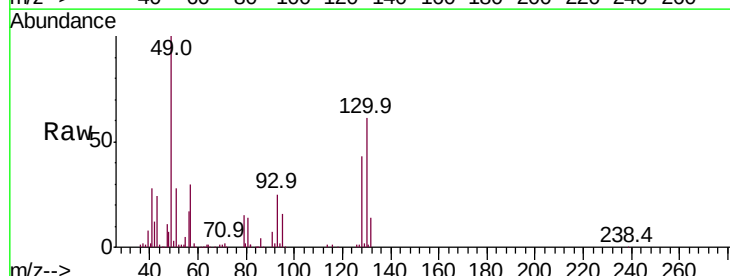
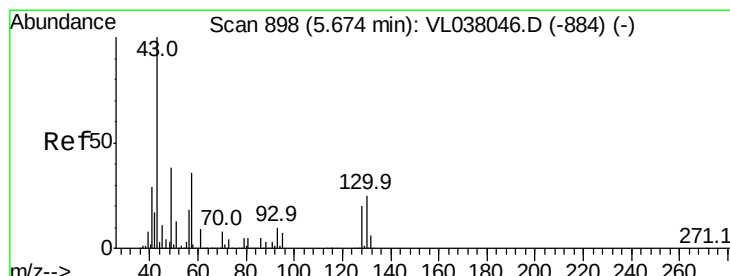
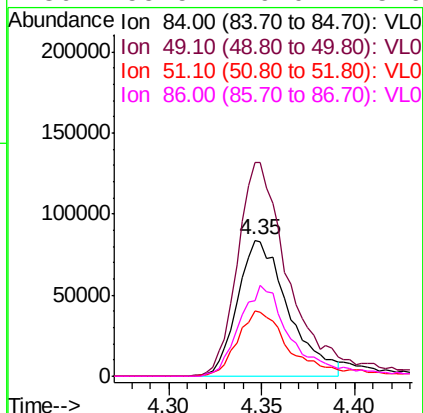
58 5.8 1.4 2.0#





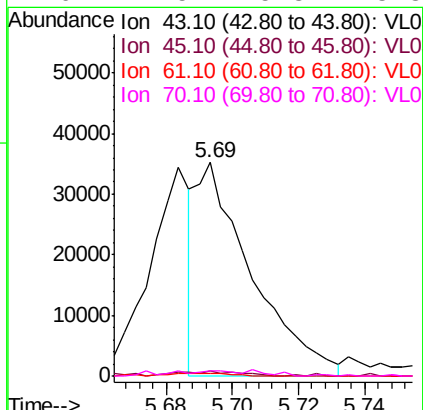
#20
Methvlene Chloride
Concen: 3.053 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:43

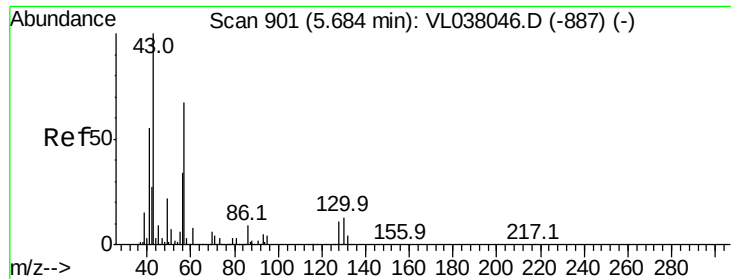
Tot Ion:	84	Resp:	159989
Ion	Ratio	Lower	Upper
84	100		
49	156.8	118.2	177.2
51	47.3	36.8	55.2
86	55.5	49.0	73.6



#25
Ethyl Acetate
Concen: 0.130 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL038189.D
Acq: 16 Dec 2021 14:43

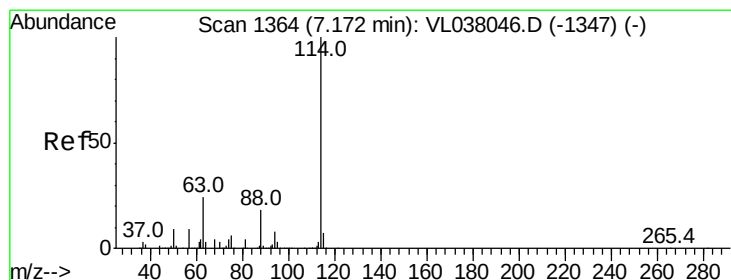
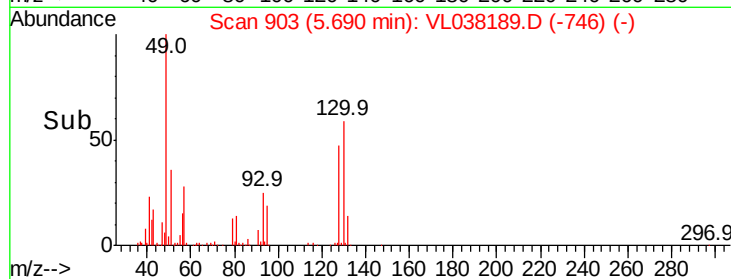
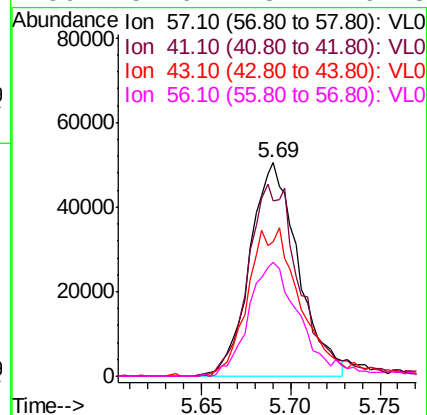
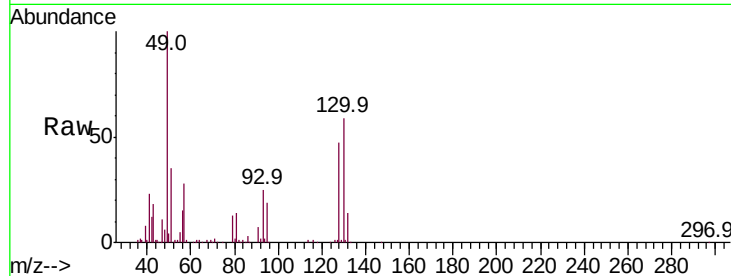
Tgt Ion:	43	Resp:	40323
Ion	Ratio	Lower	Upper
43	100		
45	3.5	7.9	11.9#
61	0.0	7.8	11.6#
70	4.5	5.8	8.8#





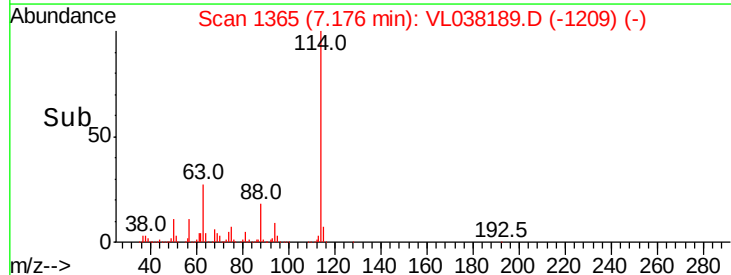
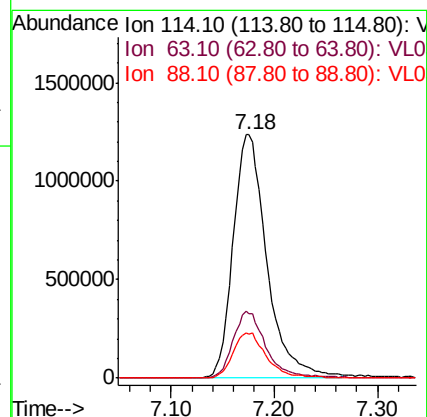
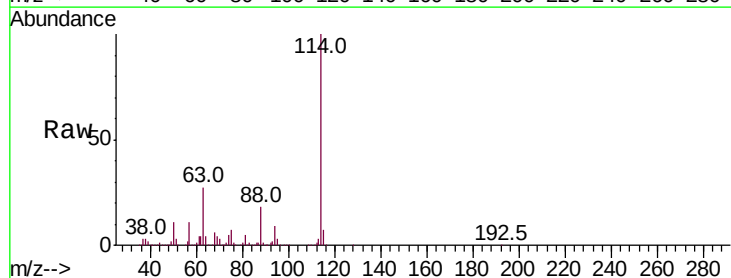
#26
Hexane
Concen: 0.639 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 14:43

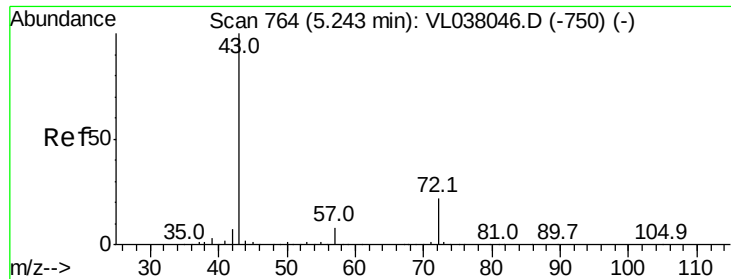
Tot Ion:	57	Resp:	95728
Ion	Ratio	Lower	Upper
57	100		
41	99.1	71.4	107.2
43	78.7	174.6	261.8#
56	57.6	43.2	64.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T.: 0.00 min
Lab File: VL038189.D
Acq: 16 Dec 2021 14:43

Tgt Ion:	114	Resp:	2821518
Ion	Ratio	Lower	Upper
114	100		
63	27.1	19.7	29.5
88	18.9	14.4	21.6





#34

2-Butanone

Concen: 0.034 ppbv

RT: 5.26 Instrument:

Delta R.T. MSVOA_L

Lab File:

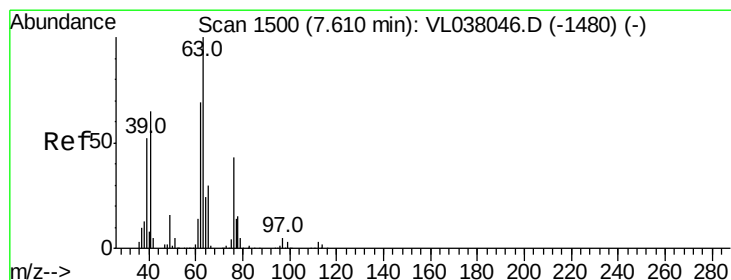
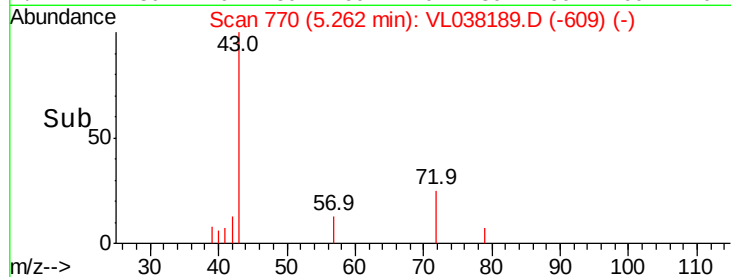
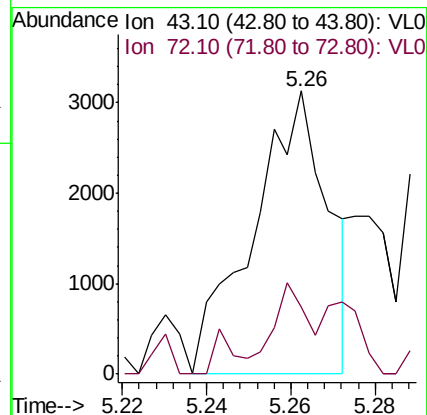
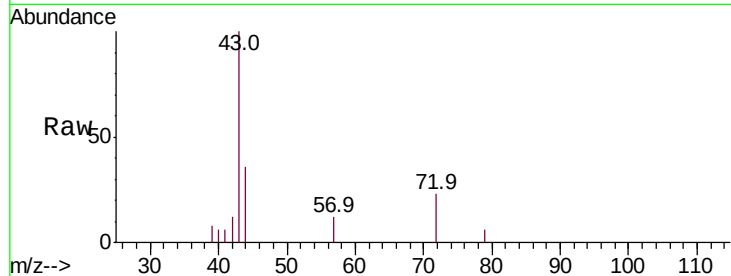
Acq: 16 Dec 2021 14:43

Tot Ion: 43 Resp: 3834

Ion Ratio Lower Upper

43 100

72 37.9 18.8 28.2#



#39

1,2-Dichloropropane

Concen: 6.851 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL038189.D

Acq: 16 Dec 2021 14:43

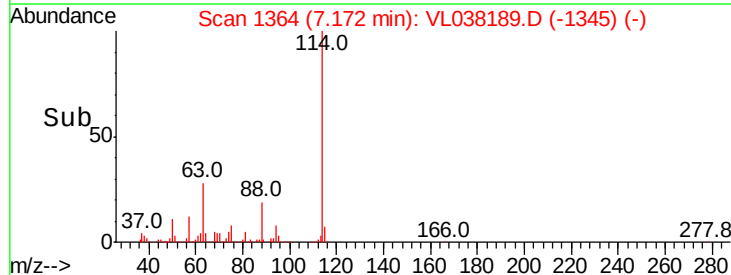
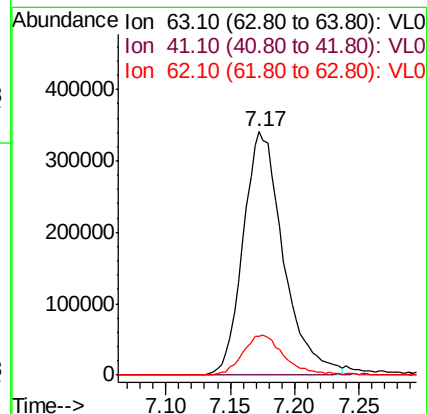
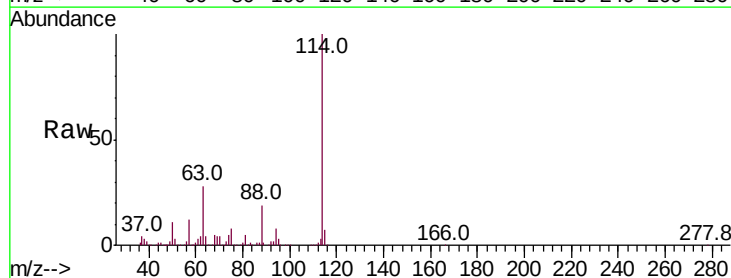
Tgt Ion: 63 Resp: 739719

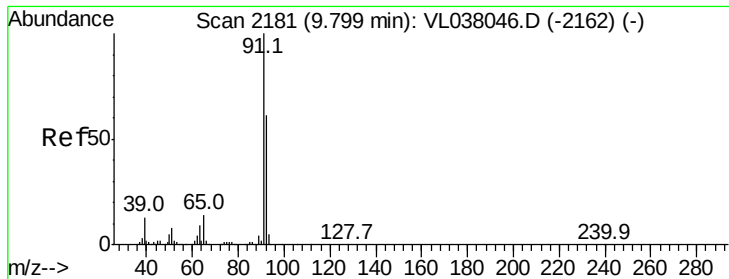
Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

62 16.2 55.1 82.7#





#53

Toluene

Concen: 0.104 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

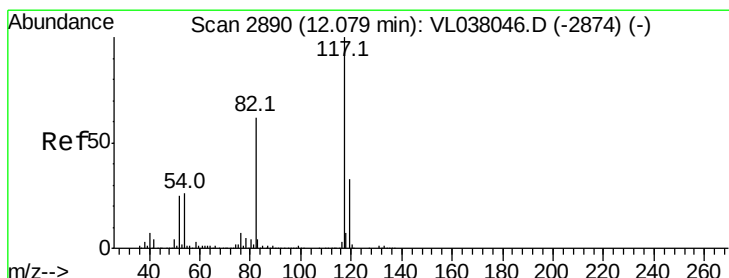
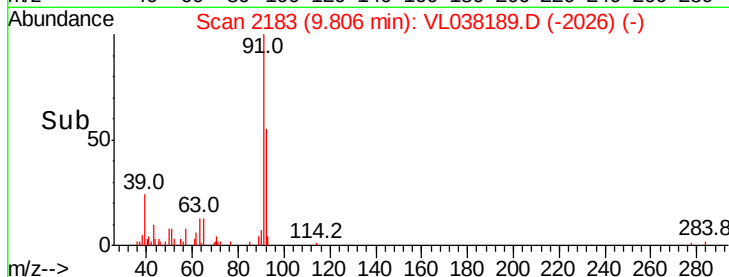
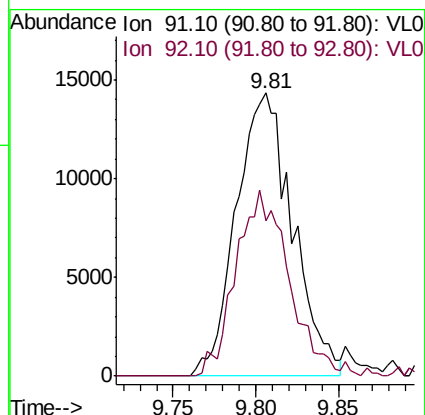
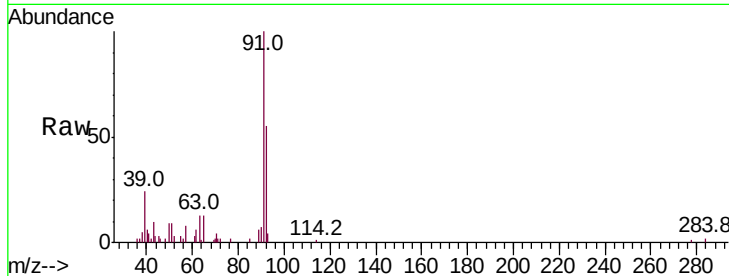
Acq: 16 Dec 2021 14:43

Tot Ion: 91 Resp: 33800

Ion Ratio Lower Upper

91 100

92 62.6 49.7 74.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL038189.D

Acq: 16 Dec 2021 14:43

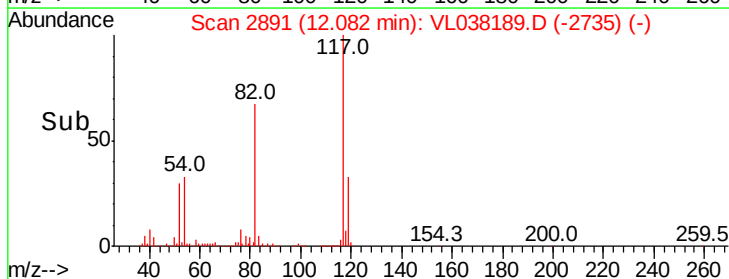
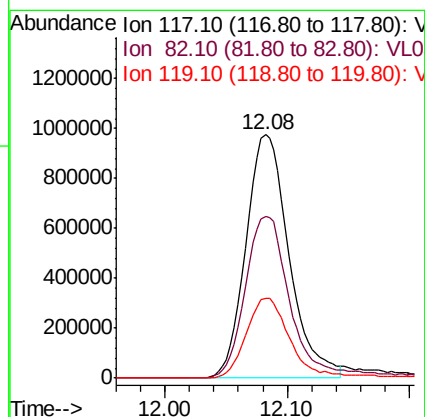
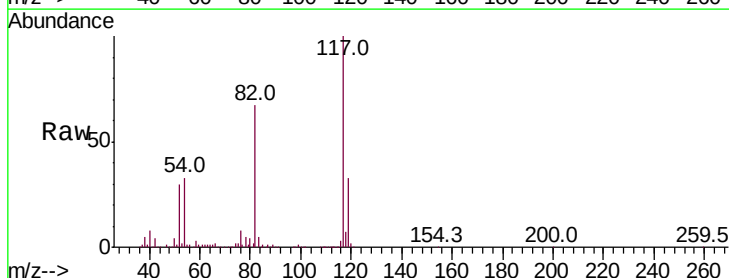
Tgt Ion: 117 Resp: 2385123

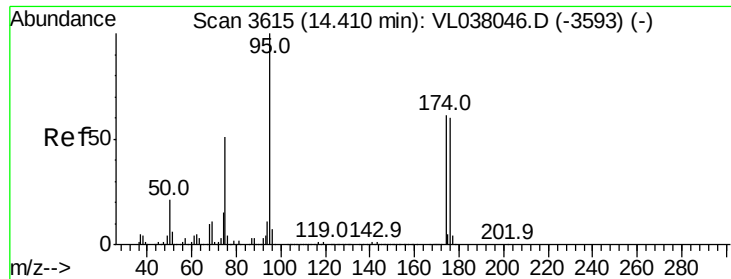
Ion Ratio Lower Upper

117 100

82 72.4 52.8 79.2

119 35.0 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.870 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 14.43

Tot Ion: 95 Resp: 1870056

Ion Ratio Lower Upper

95 100

174 62.9 53.1 79.7

175 4.6 4.0 6.0

