

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110921\
 Data File : VL037987.D
 Acq On : 9 Nov 2021 20:07
 Operator : SY/AP
 Sample : M4555-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 10 04:48:57 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

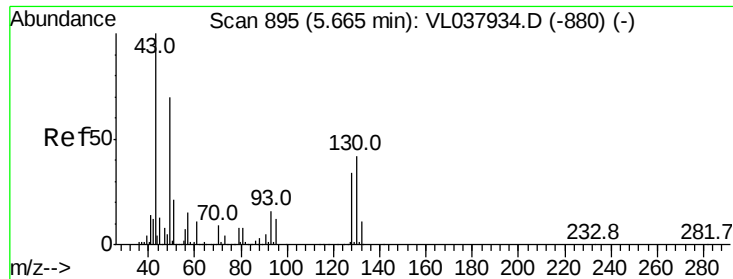
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1506817	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4228351	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3575814	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2501661	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	9659	0.045 ppbv	91
3) Chlorodifluoromethane	2.97	51	105062	0.375 ppbv #	66
4) Chloromethane	3.14	50	4762	0.045 ppbv #	80
9) Propene	3.03	41	26132	0.260 ppbv	85
13) Ethanol	3.61	45	782867	77.159 ppbv	89
15) Acetone	3.86	43	198524	1.594 ppbv	96
19) Isopropyl Alcohol	3.98	45	20700	0.260 ppbv #	67
20) Methylene Chloride	4.34	84	116693	1.707 ppbv	94
25) Ethyl Acetate	5.68	43	36674	0.099 ppbv #	80
26) Hexane	5.68	57	81596	0.466 ppbv #	50
29) Chloroform	5.75	83	28724	0.110 ppbv	93
34) 2-Butanone	5.25	43	6441	0.041 ppbv #	55
39) 1,2-Dichloropropane	7.17	63	1002841	7.740 ppbv #	28

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 20:07

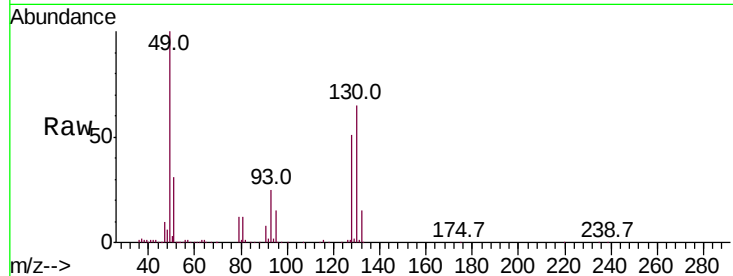
Tot Ion: 49 Resp: 1506817

Ion Ratio Lower Upper

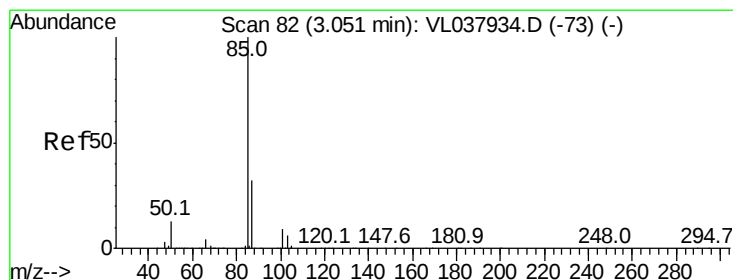
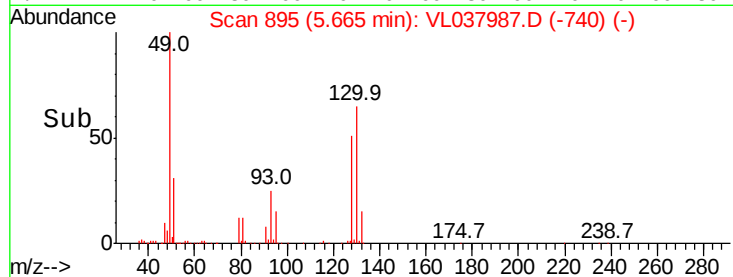
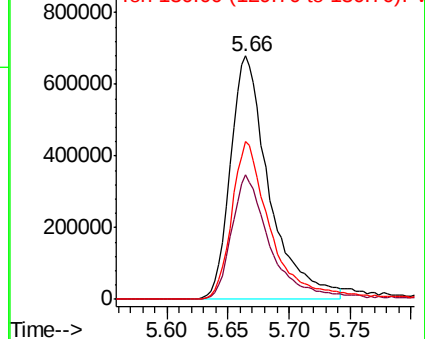
49 100

128 53.0 27.0 81.0

130 67.1 33.4 100.2



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037987.D

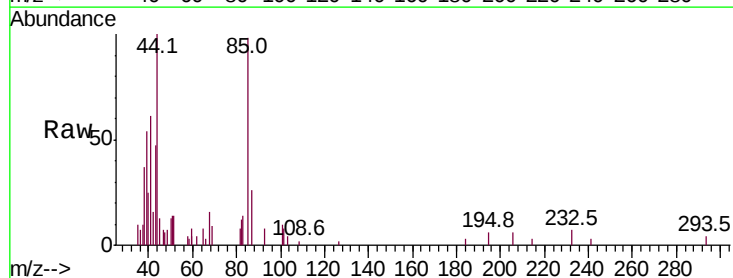
Acq: 9 Nov 2021 20:07

Tgt Ion: 85 Resp: 9659

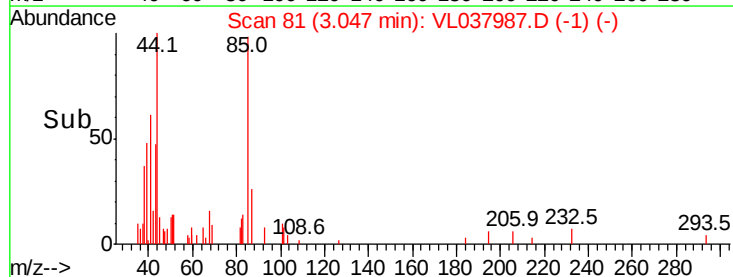
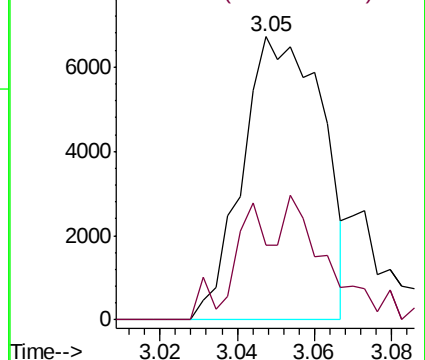
Ion Ratio Lower Upper

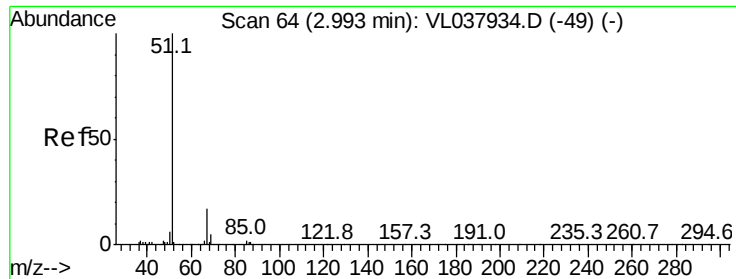
85 100

87 26.4 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.375 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

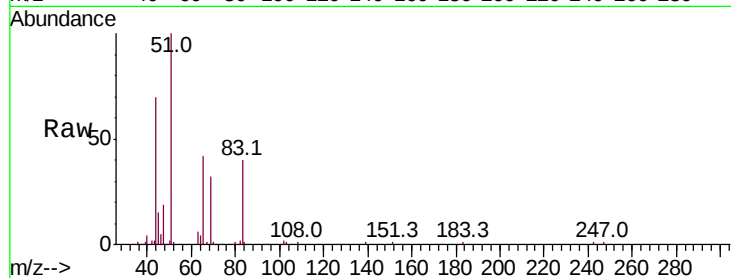
Acq: 9 Nov 2021 20:07

Tot Ion: 51 Resp: 105062

Ion Ratio Lower Upper

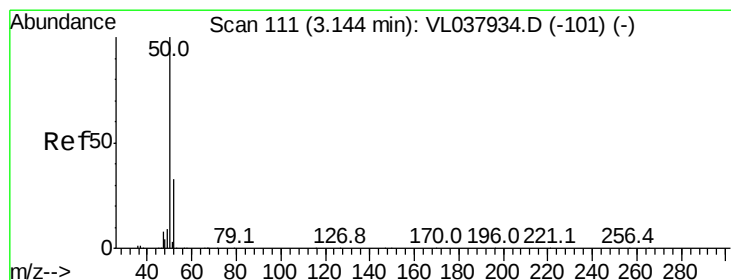
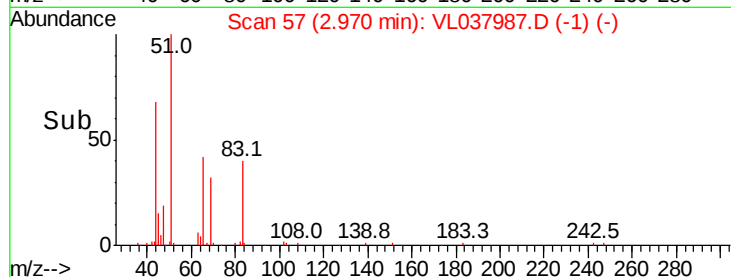
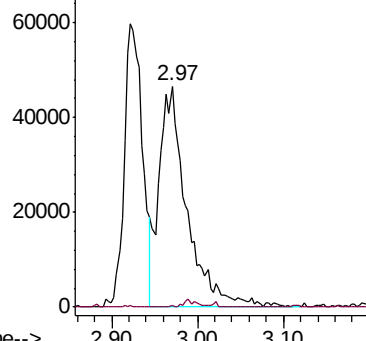
51 100

67 2.1 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.045 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL037987.D

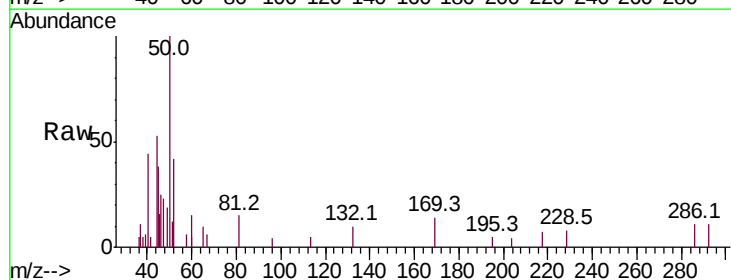
Acq: 9 Nov 2021 20:07

Tgt Ion: 50 Resp: 4762

Ion Ratio Lower Upper

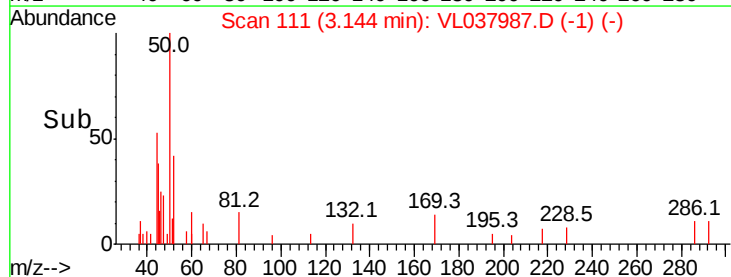
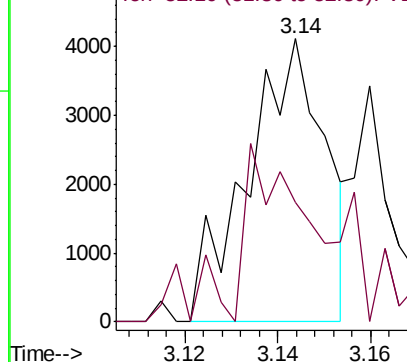
50 100

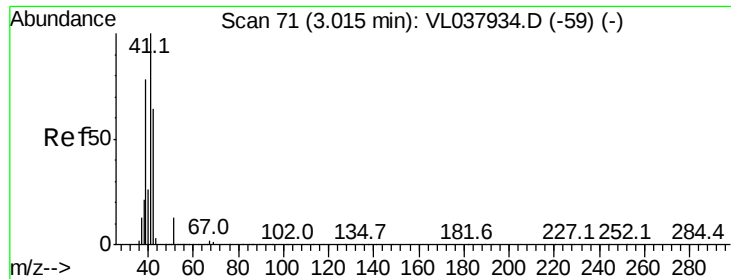
52 44.0 26.3 39.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.260 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

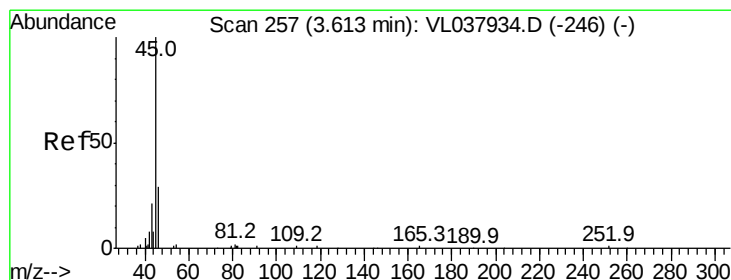
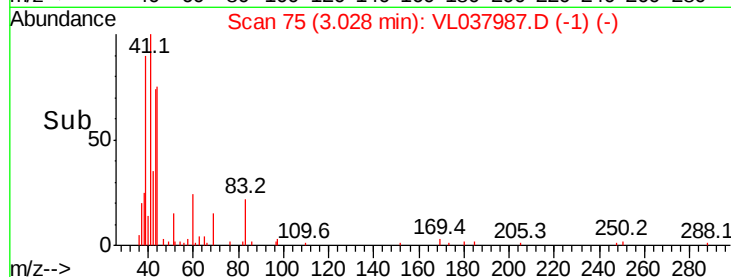
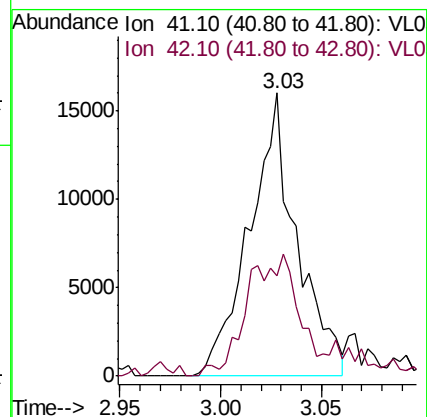
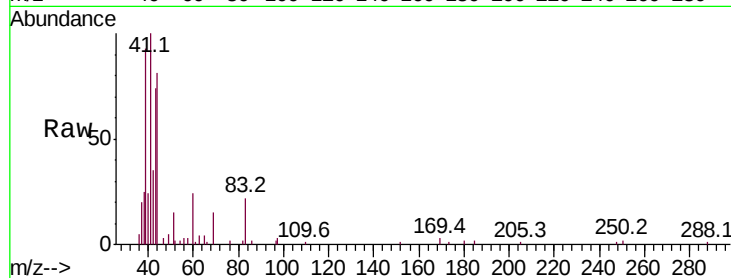
Acq: 9 Nov 2021 20:07

Tot Ion: 41 Resp: 26132

Ion Ratio Lower Upper

41 100

42 59.6 57.6 86.4



#13

Ethanol

Concen: 77.159 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037987.D

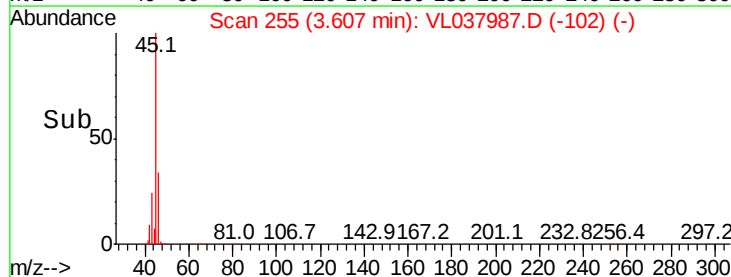
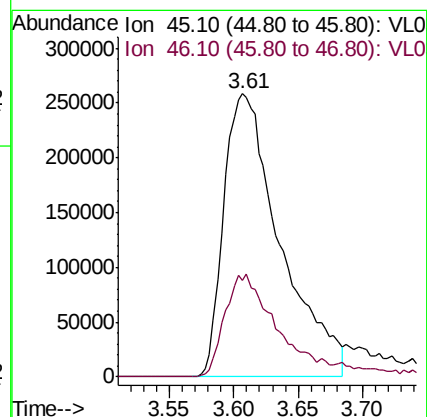
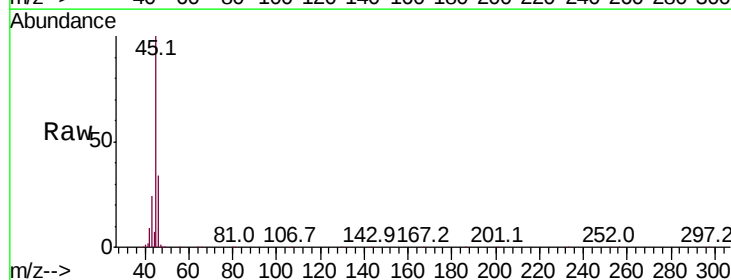
Acq: 9 Nov 2021 20:07

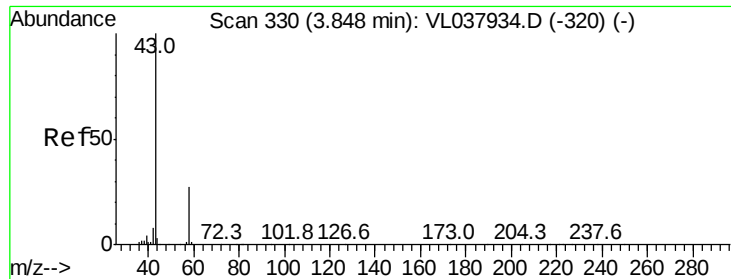
Tgt Ion: 45 Resp: 782867

Ion Ratio Lower Upper

45 100

46 36.7 17.4 69.8





#15

Acetone

Concen: 1.594 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

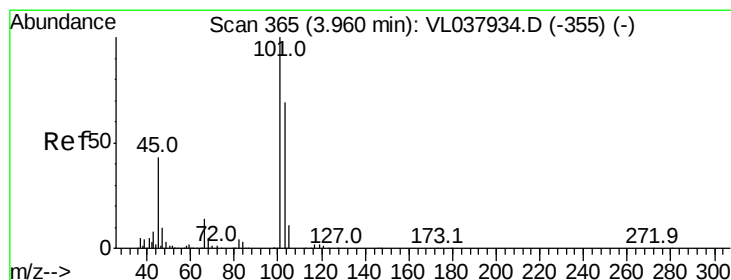
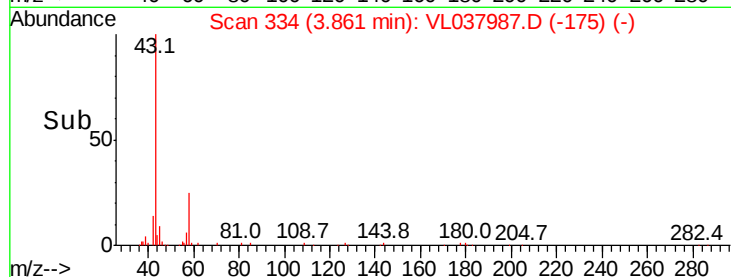
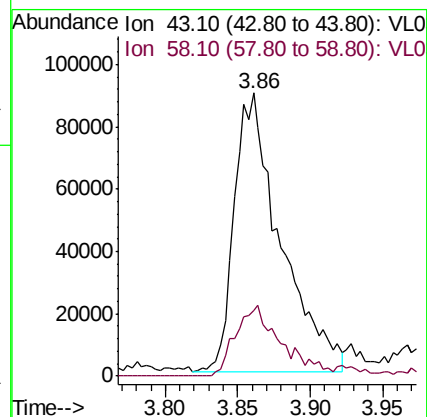
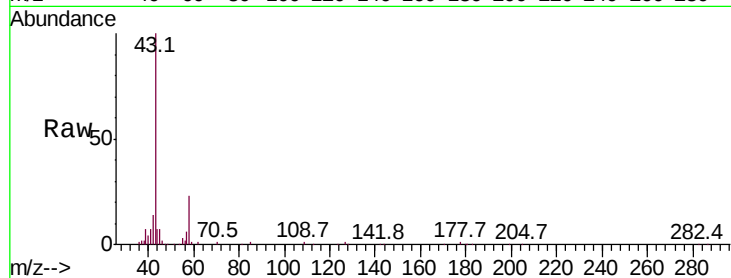
Acq: 9 Nov 2021 20:07

Tot Ion: 43 Resp: 198524

Ion Ratio Lower Upper

43 100

58 26.8 23.3 34.9



#19

Isopropyl Alcohol

Concen: 0.260 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037987.D

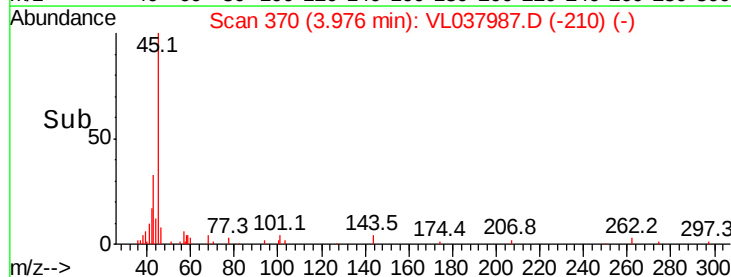
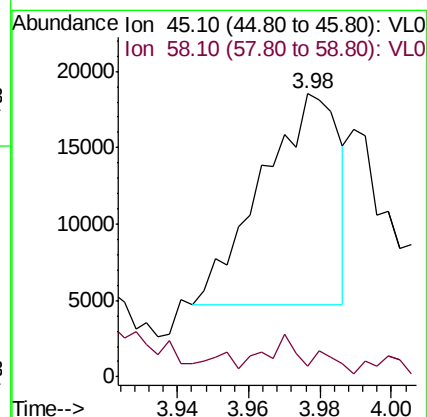
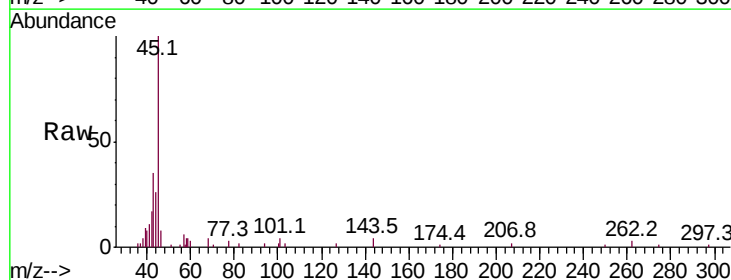
Acq: 9 Nov 2021 20:07

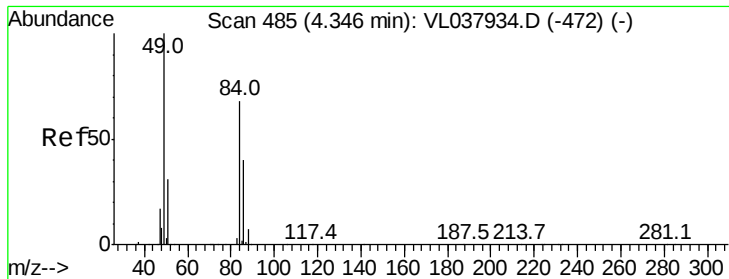
Tgt Ion: 45 Resp: 20700

Ion Ratio Lower Upper

45 100

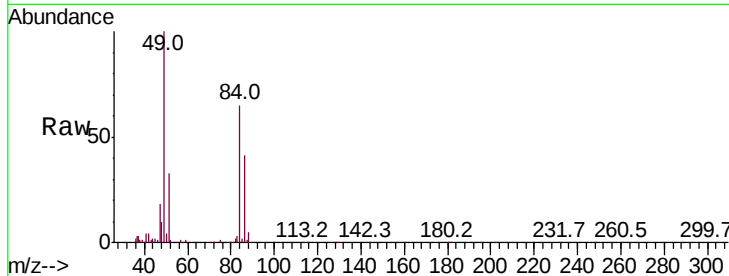
58 15.8 4.0 6.0#





#20
Methvlene Chloride
Concen: 1.707 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 9 Nov 2021 20:07

Tot Ion:	84	Resp:	116693
Ion	Ratio	Lower	Upper
84	100		
49	154.4	117.5	176.3
51	49.7	35.9	53.9
86	62.7	47.3	70.9



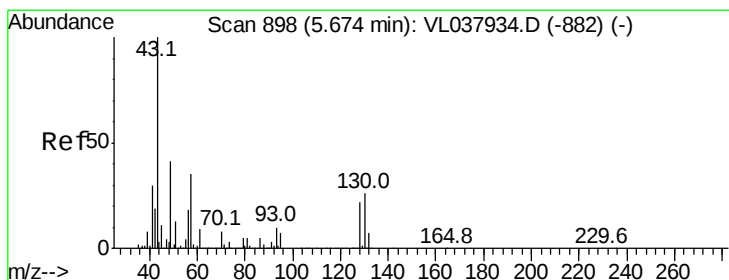
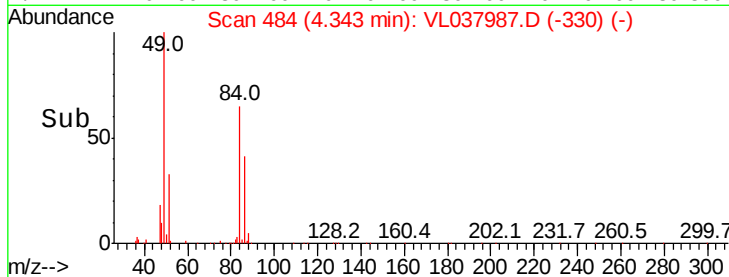
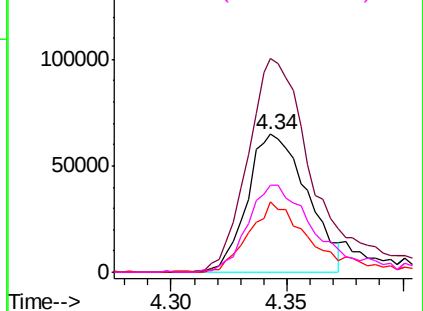
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

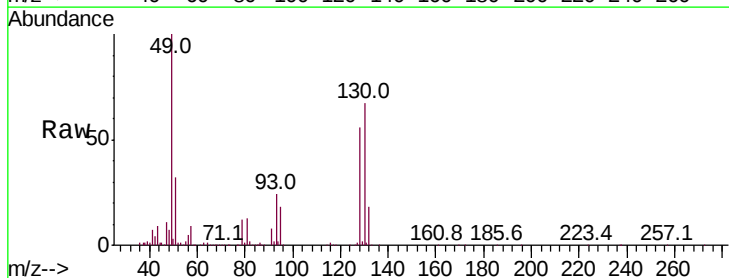
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.099 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037987.D
Acq: 9 Nov 2021 20:07

Tgt Ion:	43	Resp:	36674
Ion	Ratio	Lower	Upper
43	100		
45	5.3	8.1	12.1#
61	0.0	8.1	12.1#
70	0.0	5.8	8.6#



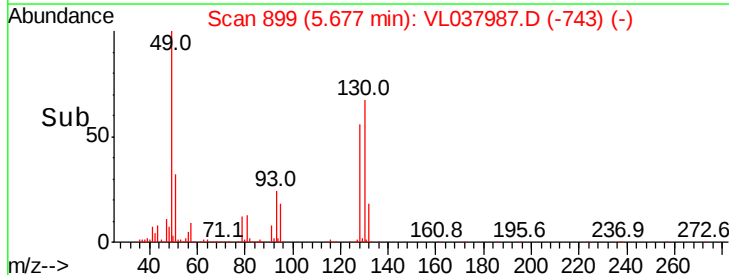
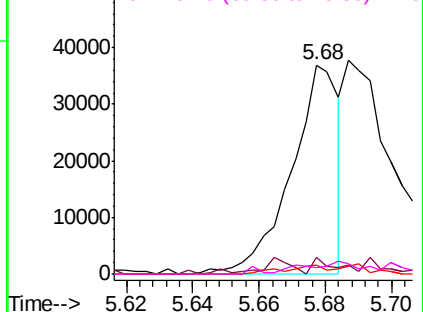
Abundance

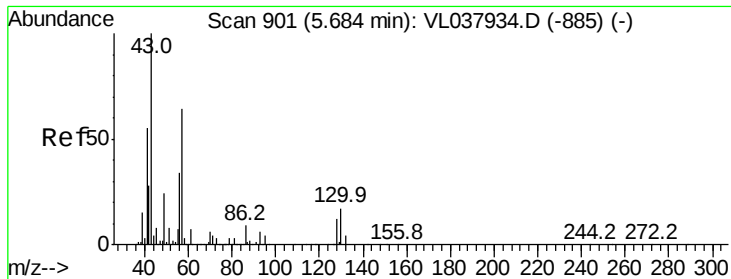
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

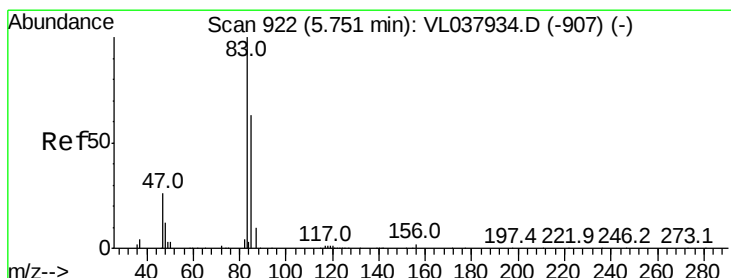
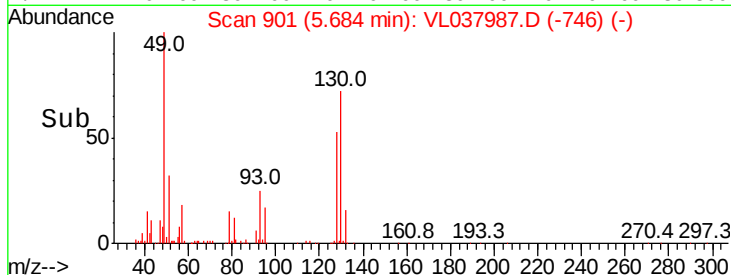
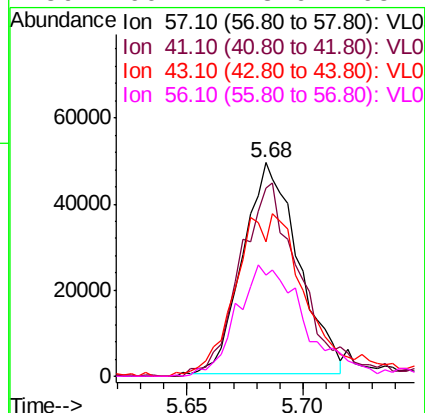
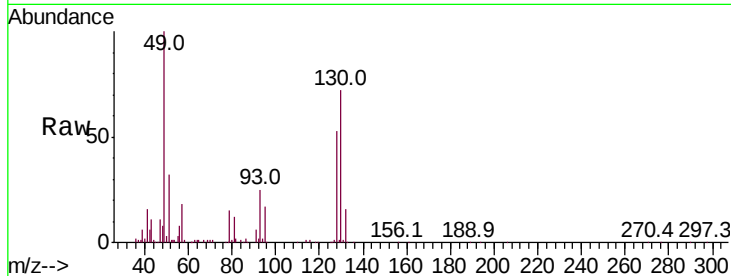
Ion 70.10 (69.80 to 70.80): VL0





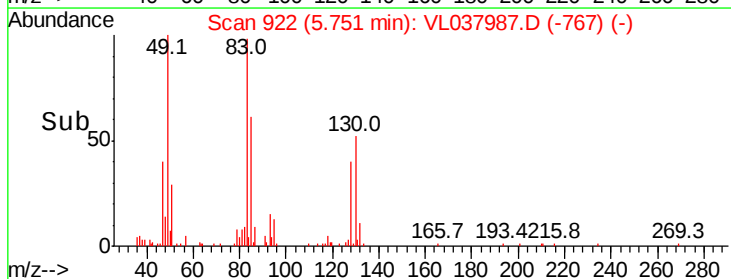
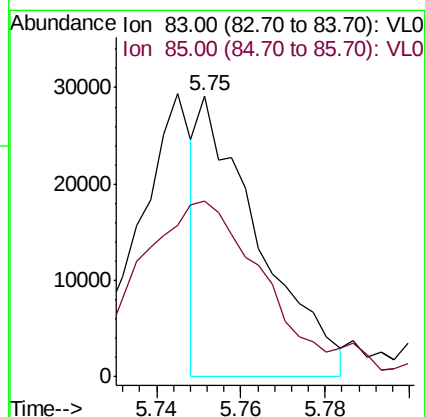
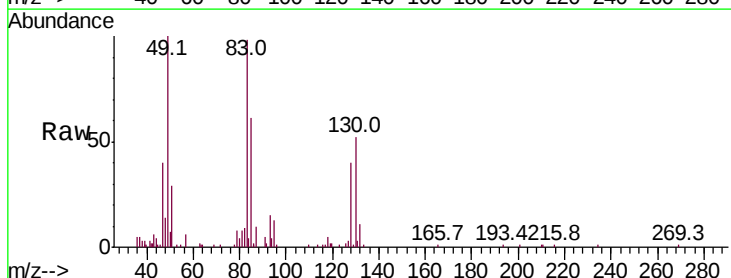
#26
Hexane
Concen: 0.466 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 Nov 2021 20:07

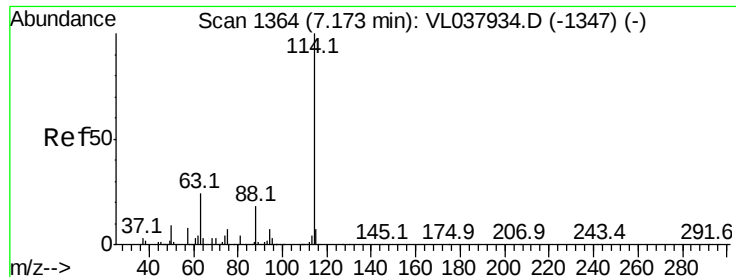
Tot Ion:	57	Resp:	81596
Ion	Ratio	Lower	Upper
57	100		
41	105.7	71.0	106.6
43	102.8	173.0	259.6#
56	66.2	43.6	65.4#



#29
Chloroform
Concen: 0.110 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL037987.D
Acq: 9 Nov 2021 20:07

Tgt Ion:	83	Resp:	28724
Ion	Ratio	Lower	Upper
83	100		
85	58.0	50.6	76.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 20:07

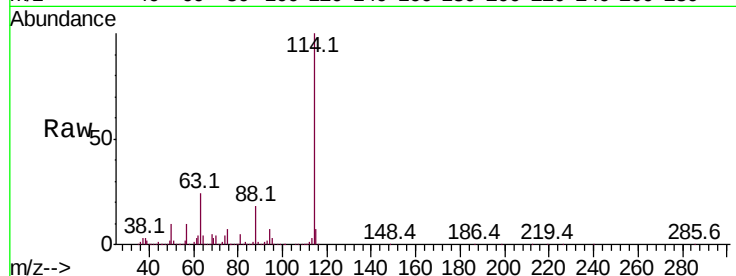
Tot Ion:114 Resp: 4228351

Ion Ratio Lower Upper

114 100

63 24.4 19.4 29.0

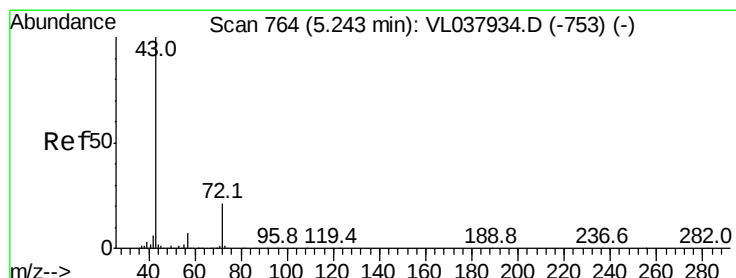
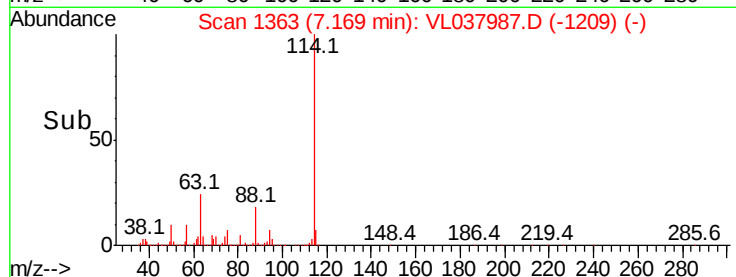
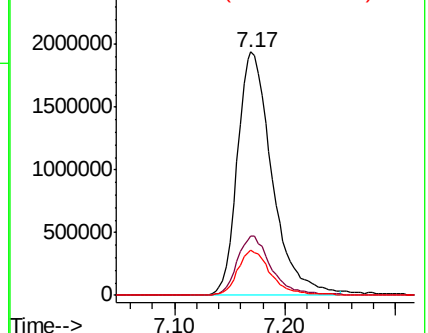
88 18.1 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.041 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL037987.D

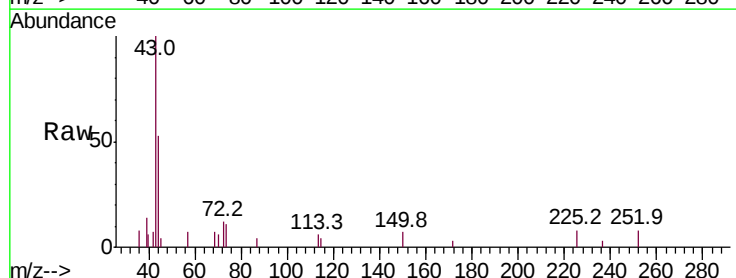
Acq: 9 Nov 2021 20:07

Tgt Ion: 43 Resp: 6441

Ion Ratio Lower Upper

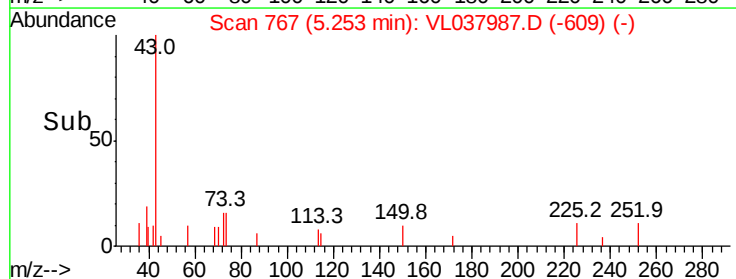
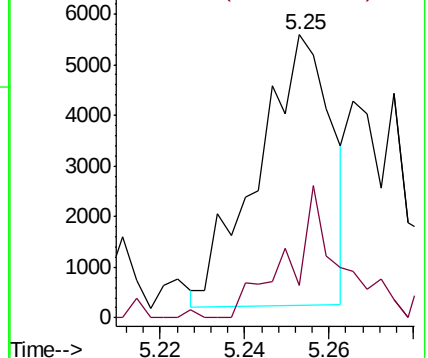
43 100

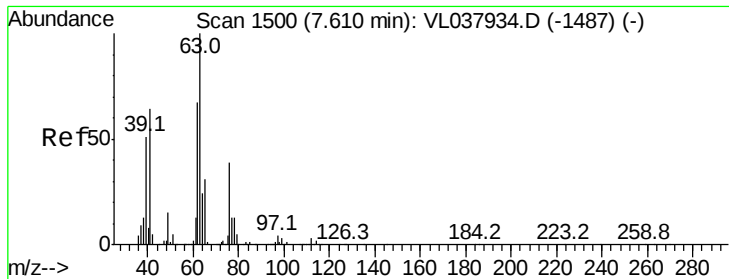
72 44.7 18.3 27.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.740 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 20:07

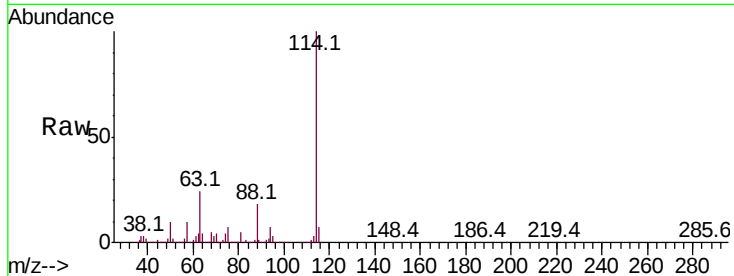
Tot Ion: 63 Resp: 1002841

Ion Ratio Lower Upper

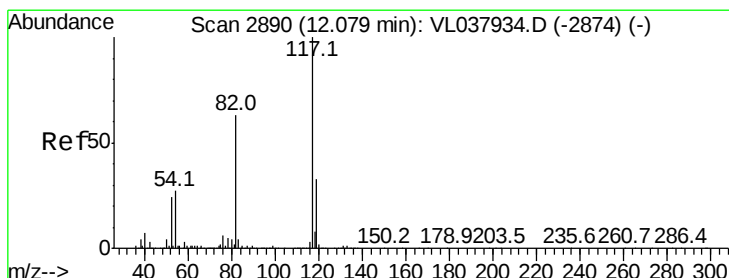
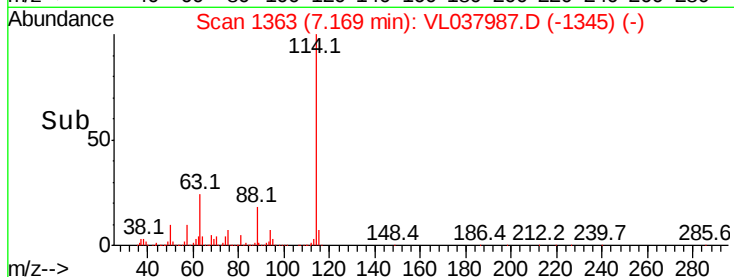
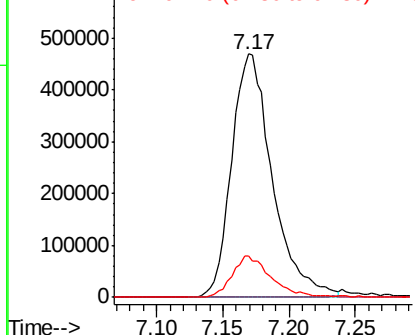
63 100

41 0.0 51.6 77.4#

62 16.8 53.5 80.3#



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: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL037987.D

Acq: 9 Nov 2021 20:07

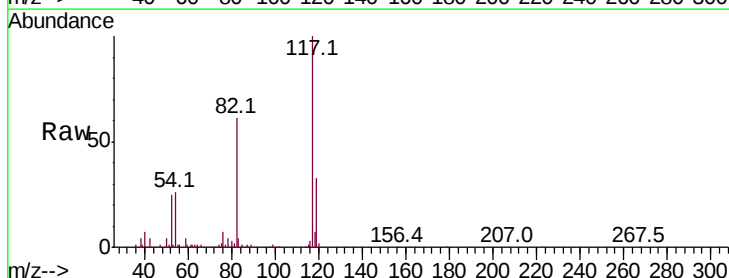
Tgt Ion: 117 Resp: 3575814

Ion Ratio Lower Upper

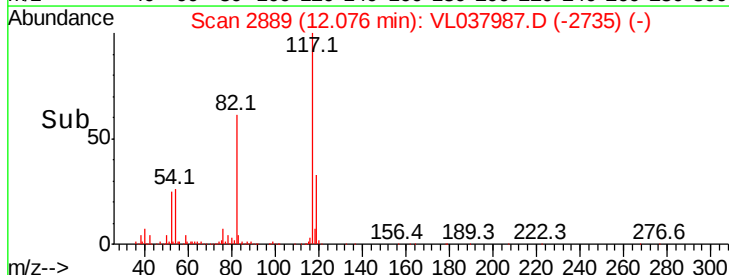
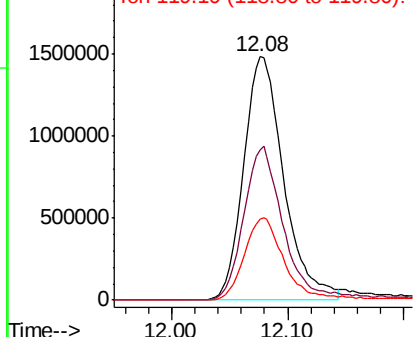
117 100

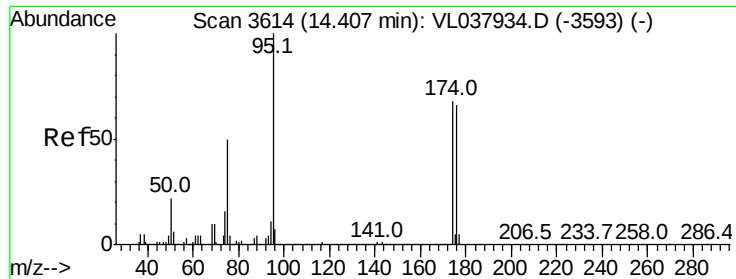
82 64.3 51.0 76.6

119 34.8 26.9 40.3



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: 9.625 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 9 Nov 2021 20:07

Tot Ion: 95 Resp: 2501661

Ion Ratio Lower Upper

95 100

174 74.1 58.3 87.5

175 5.6 4.6 6.8

