

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037914.D
 Acq On : 27 Oct 2021 13:19
 Operator : SY/AP
 Sample : M4377-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-5-IMPLANTDL

Quant Time: Oct 28 05:17:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1402056	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	4141387	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3519400	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2364730	9.61	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

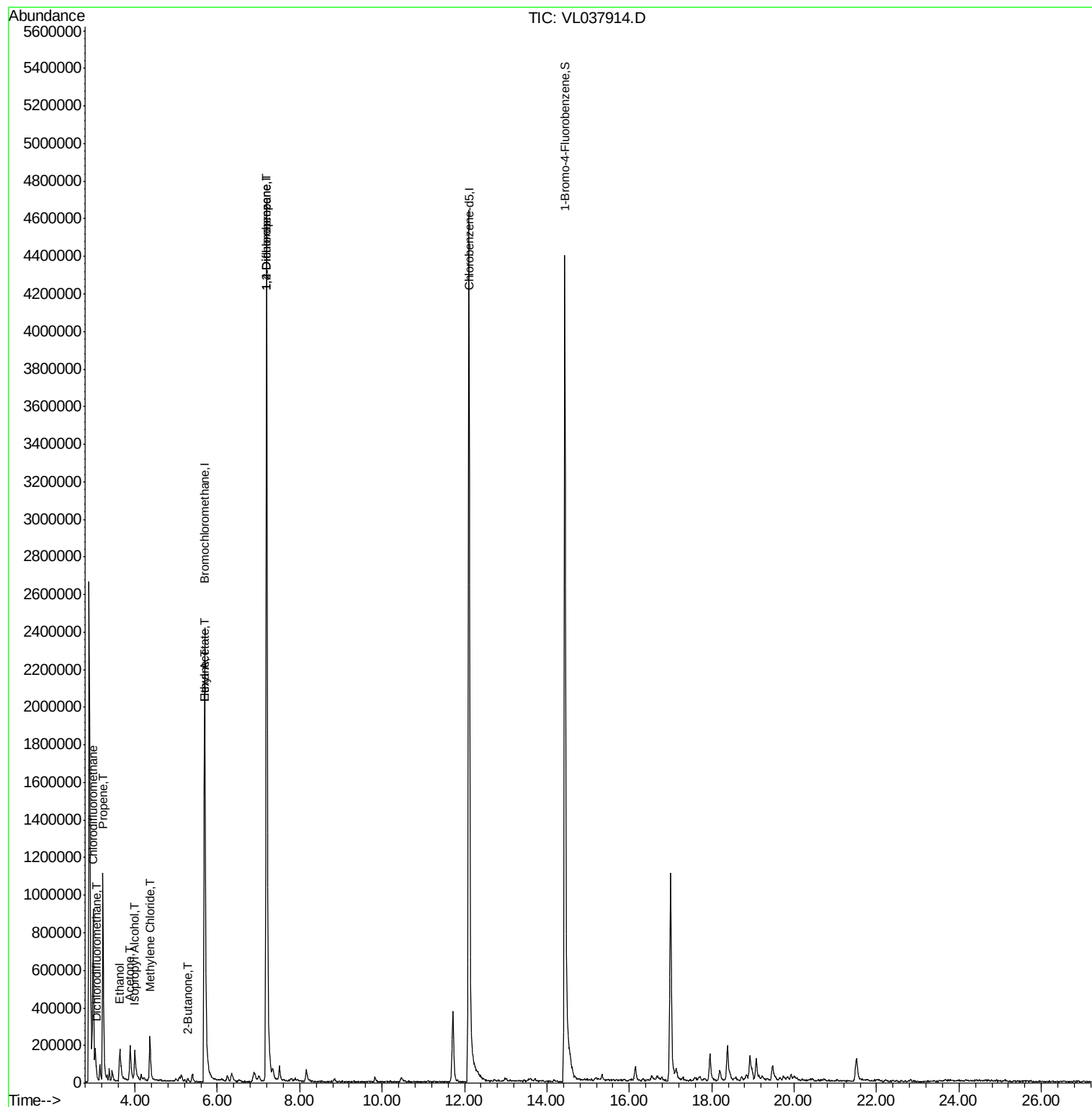
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	11692	0.052	ppbv	97
3) Chlorodifluoromethane	2.98	51	686235	2.547	ppbv #	62
9) Propene	3.22	41	402949	4.065	ppbv	100
13) Ethanol	3.63	45	249400	30.766	ppbv	89
15) Acetone	3.88	43	201976	1.605	ppbv	93
19) Isopropyl Alcohol	3.99	45	182901	2.336	ppbv #	87
20) Methylene Chloride	4.36	84	43883	0.690	ppbv	95
25) Ethyl Acetate	5.71	43	40863	0.116	ppbv #	76
26) Hexane	5.71	57	62951	0.362	ppbv #	42
34) 2-Butanone	5.28	43	10831	0.065	ppbv #	37
39) 1,2-Dichloropropane	7.20	63	963307	7.240	ppbv #	28

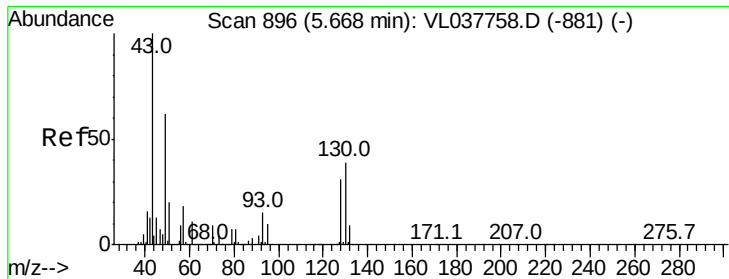
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VMP-5-IMPLANTDL

Acq: 27 Oct 2021 13:19

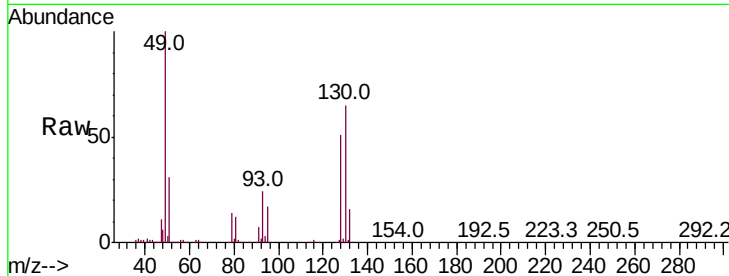
Tot Ion: 49 Resp: 1402056

Ion Ratio Lower Upper

49 100

128 52.4 27.1 81.3

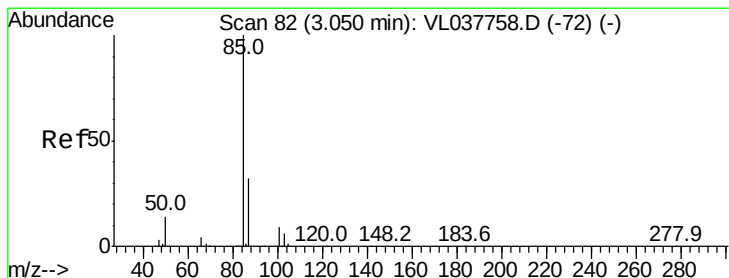
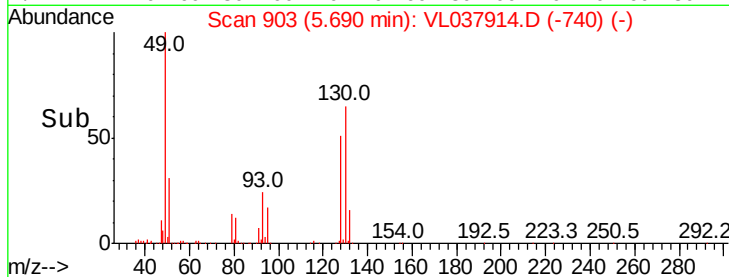
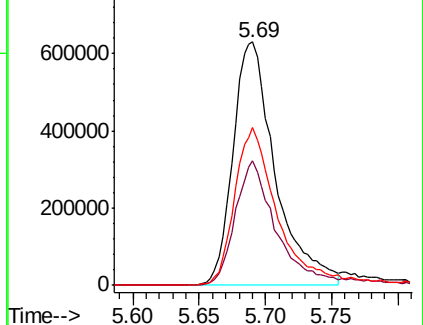
130 67.8 33.2 99.6



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: 0.052 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL037914.D

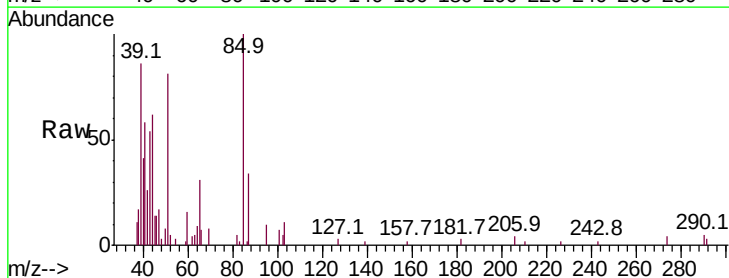
Acq: 27 Oct 2021 13:19

Tgt Ion: 85 Resp: 11692

Ion Ratio Lower Upper

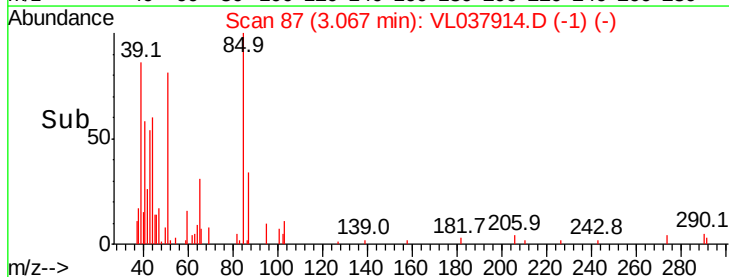
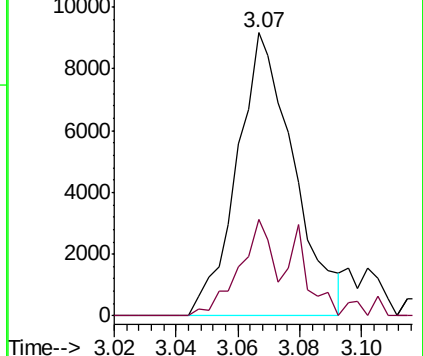
85 100

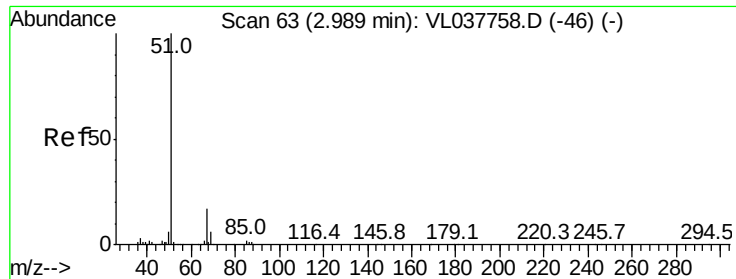
87 34.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

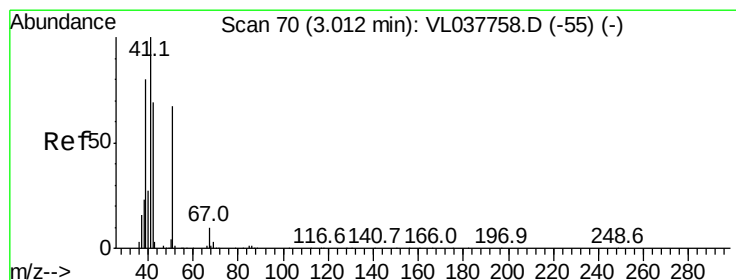
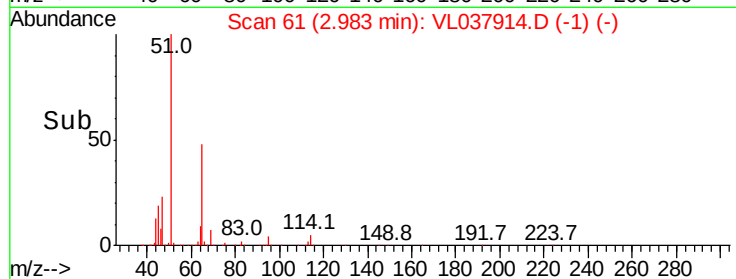
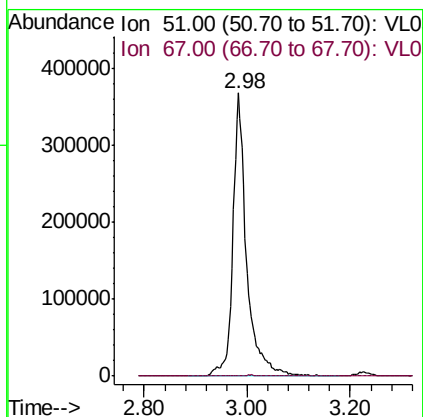
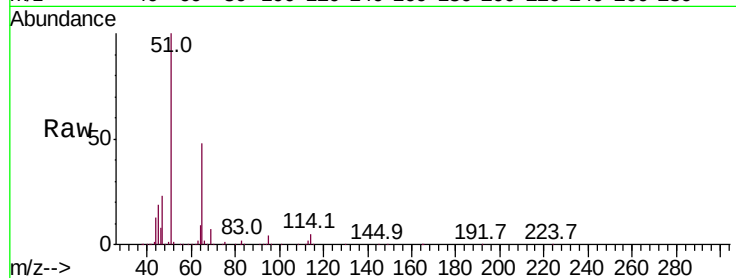
Ion 87.00 (86.70 to 87.70): VL0





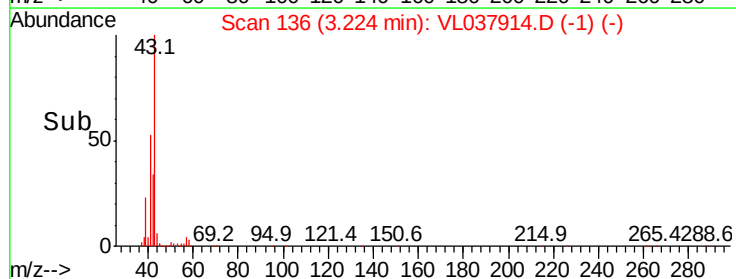
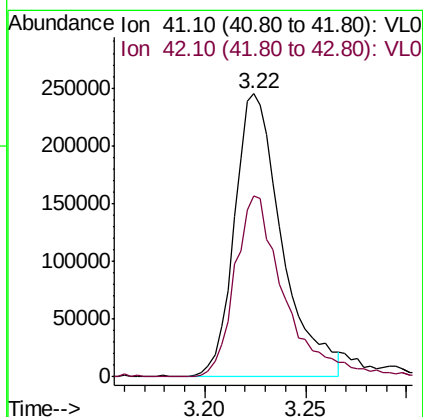
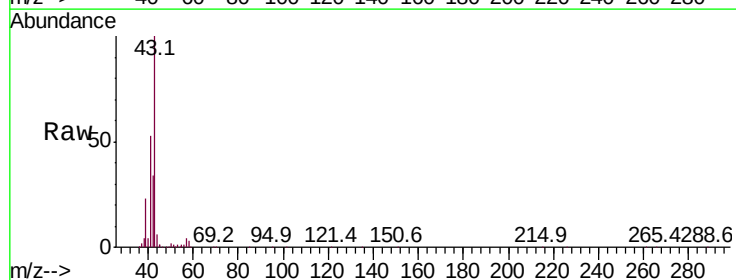
#3
 Chlorodifluoromethane
 Concen: 2.547 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VMP-5-IMPLANTDL
 Acq: 27 Oct 2021 13:19

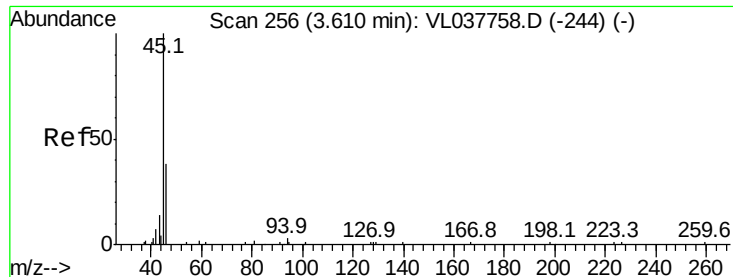
Tot Ion: 51 Resp: 686235
 Ion Ratio Lower Upper
 51 100
 67 0.3 13.5 20.3#



#9
 Propene
 Concen: 4.065 ppbv
 RT: 3.22 min Scan# 136
 Delta R.T. 0.21 min
 Lab File: VL037914.D
 Acq: 27 Oct 2021 13:19

Tgt Ion: 41 Resp: 402949
 Ion Ratio Lower Upper
 41 100
 42 67.9 54.2 81.2





#13

Ethanol

Concen: 30.766 ppbv

RT: 3.63 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VMP-5-IMPLANTDL

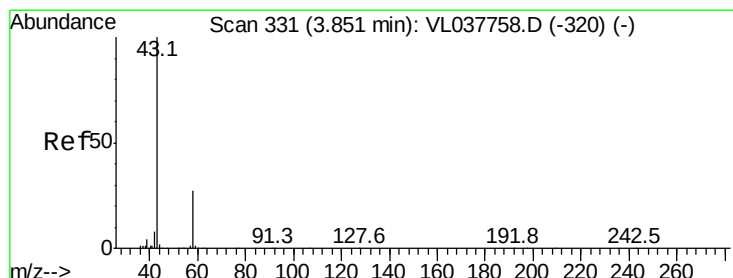
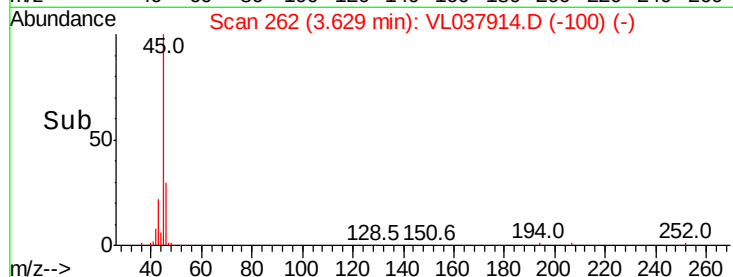
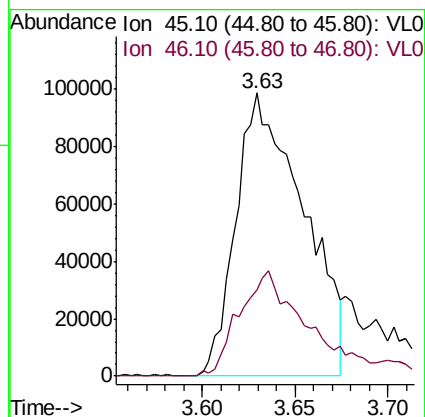
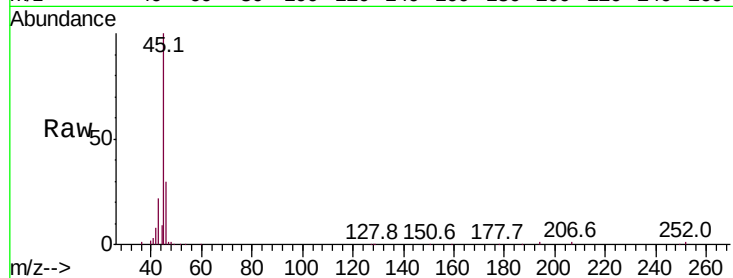
Acq: 27 Oct 2021 13:19

Tot Ion: 45 Resp: 249400

Ion Ratio Lower Upper

45 100

46 43.3 20.2 81.0



#15

Acetone

Concen: 1.605 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.03 min

Lab File: VL037914.D

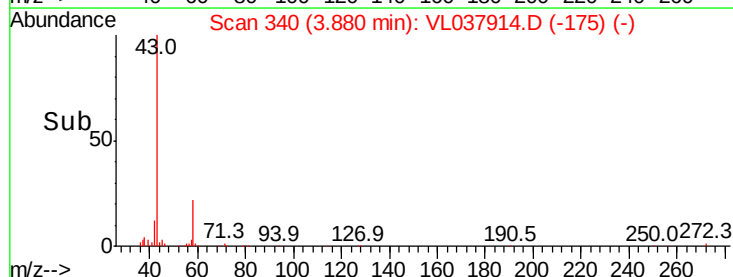
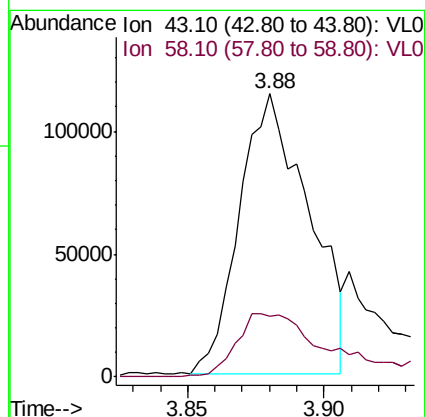
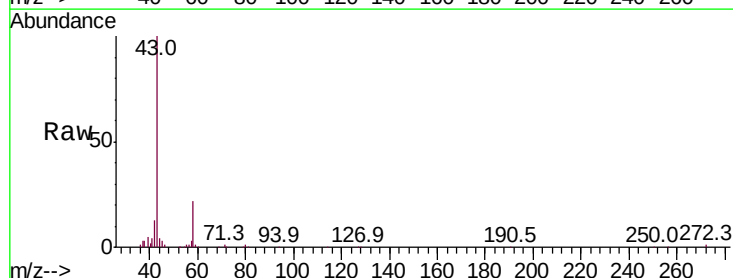
Acq: 27 Oct 2021 13:19

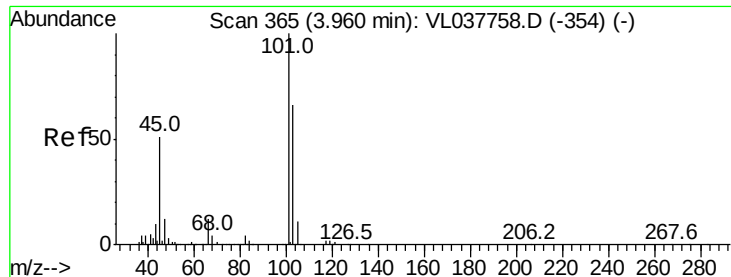
Tgt Ion: 43 Resp: 201976

Ion Ratio Lower Upper

43 100

58 32.3 23.0 34.6





#19

Isopropyl Alcohol

Concen: 2.336 ppbv

RT: 3.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

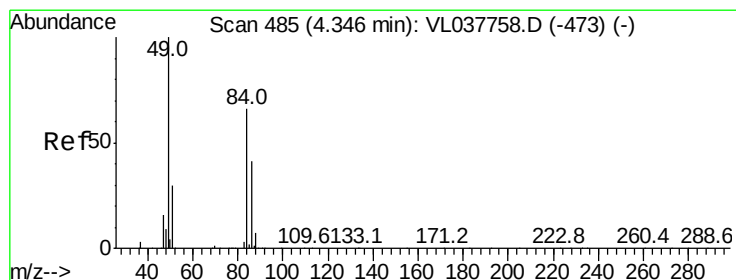
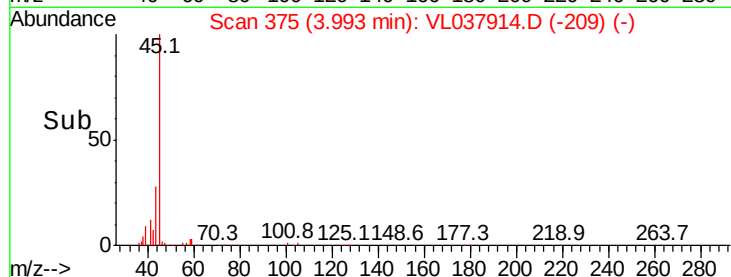
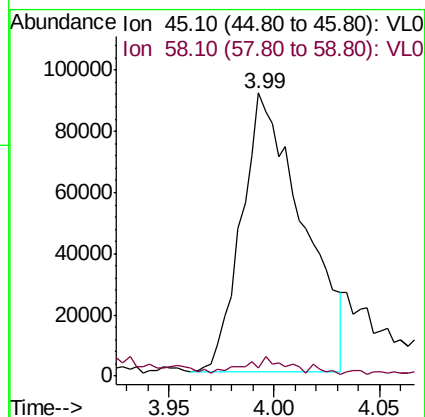
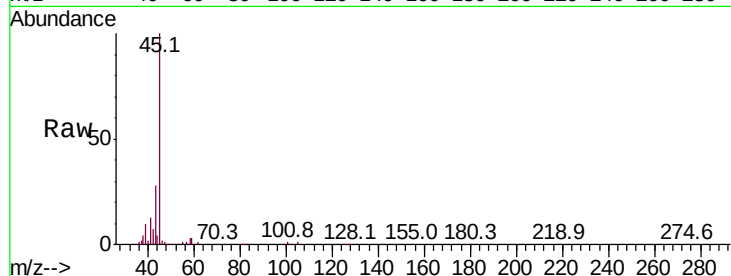
Acq: 27 Oct 2021 13:19

Tot Ion: 45 Resp: 182901

Ion Ratio Lower Upper

45 100

58 6.6 1.1 1.7#



#20

Methylene Chloride

Concen: 0.690 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL037914.D

Acq: 27 Oct 2021 13:19

Tgt Ion: 84 Resp: 43883

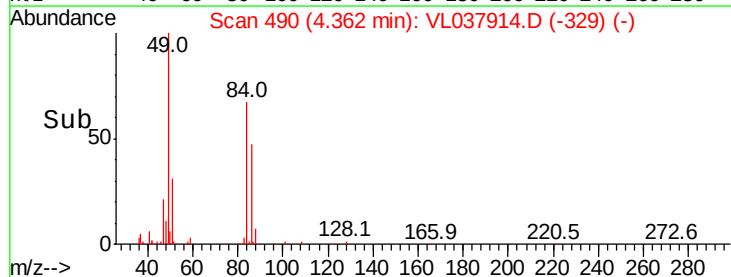
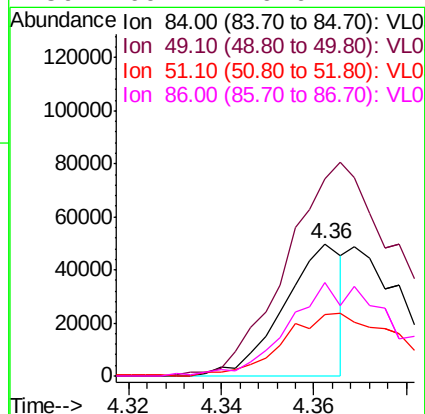
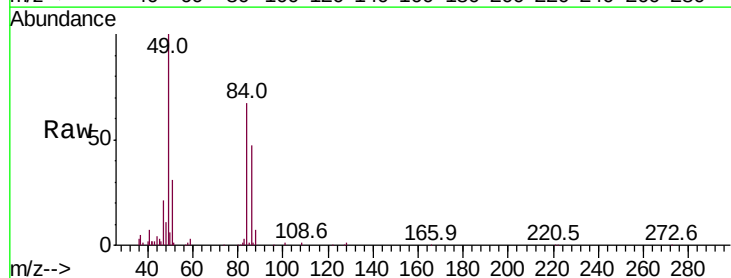
Ion Ratio Lower Upper

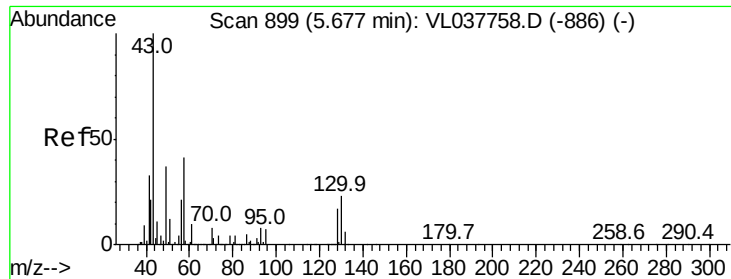
84 100

49 146.9 120.7 181.1

51 47.1 36.2 54.4

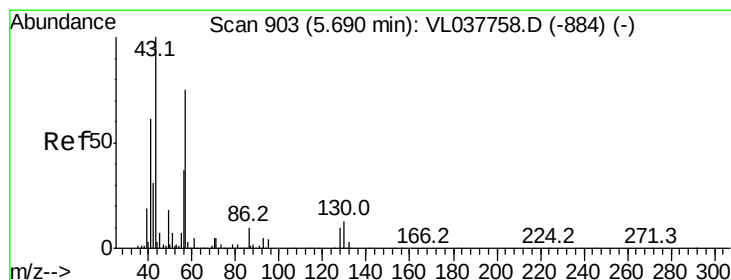
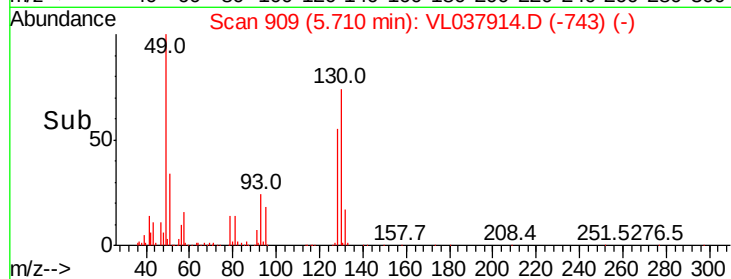
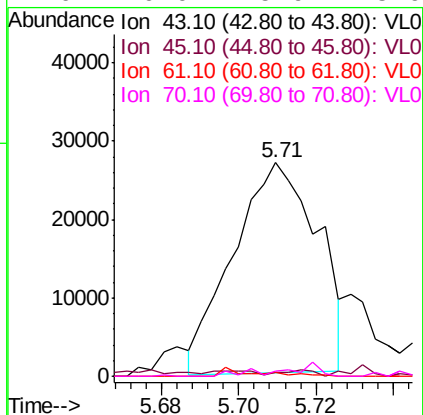
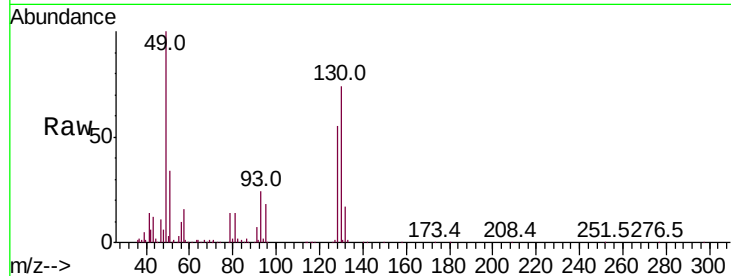
86 69.7 49.6 74.4





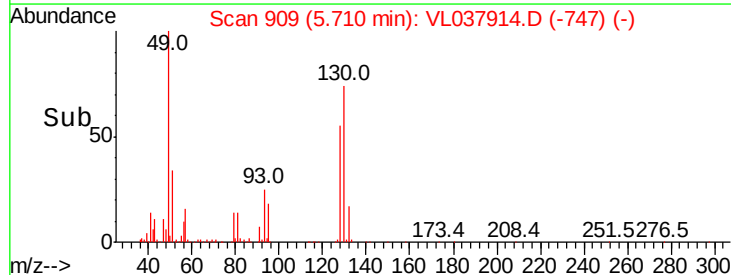
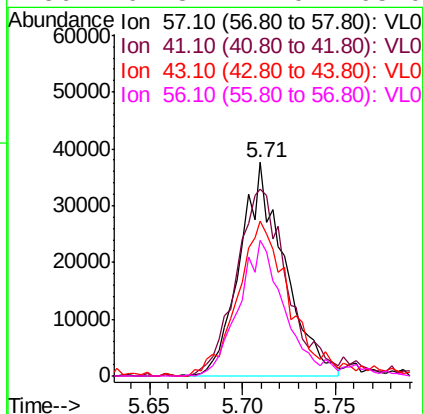
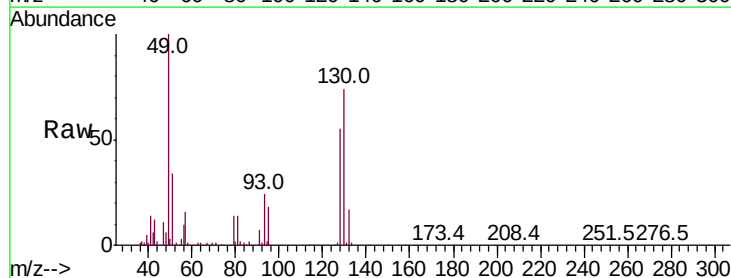
#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 5.71 min
Delta R.T.: 0.02 min
Lab File: VL037914.D
Acq: 27 Oct 2021 13:19

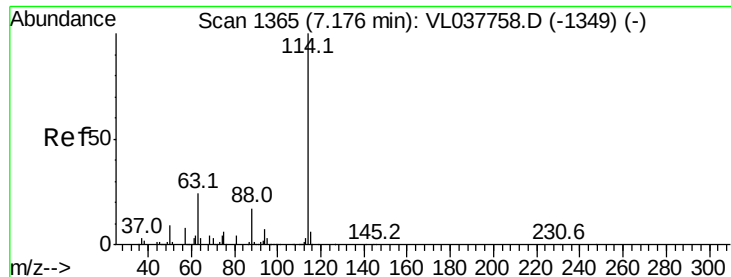
Tot Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	1.6	7.5	11.3#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 0.362 ppbv
RT: 5.71 min Scan# 909
Delta R.T.: 0.02 min
Lab File: VL037914.D
Acq: 27 Oct 2021 13:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.8	69.6	104.4#
43	83.9	171.4	257.0#
56	67.8	42.0	63.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 13:19 VMP-5-IMPLANTDL

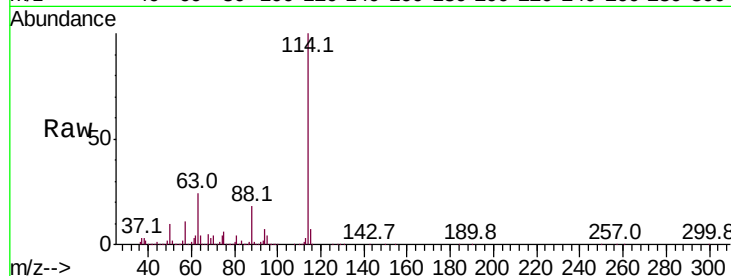
Tot Ion:114 Resp: 4141387

Ion Ratio Lower Upper

114 100

63 23.9 19.4 29.2

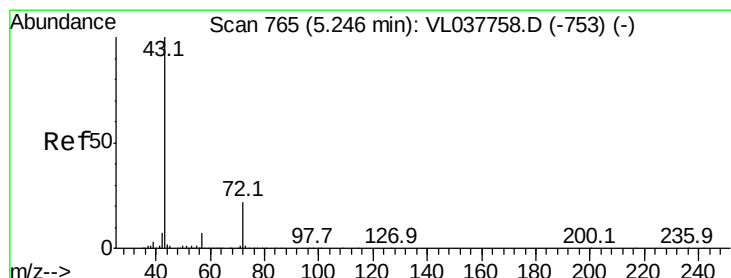
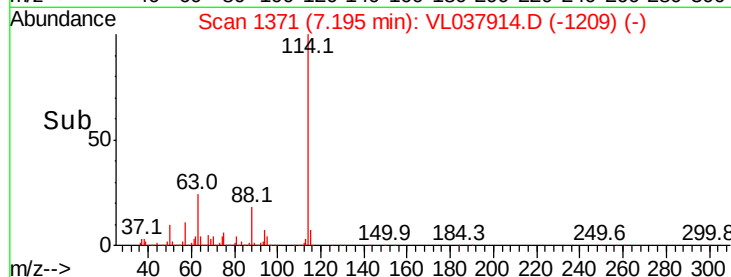
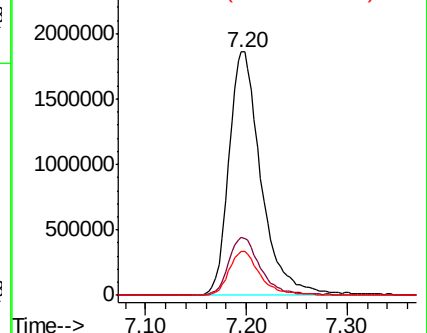
88 17.8 14.4 21.6



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: 0.065 ppbv

RT: 5.28 min Scan# 774

Delta R.T. 0.03 min

Lab File: VL037914.D

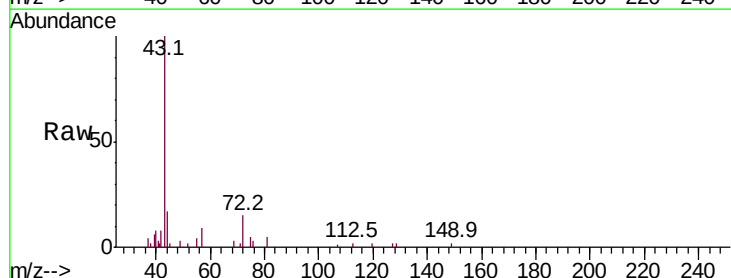
Acq: 27 Oct 2021 13:19

Tgt Ion: 43 Resp: 10831

Ion Ratio Lower Upper

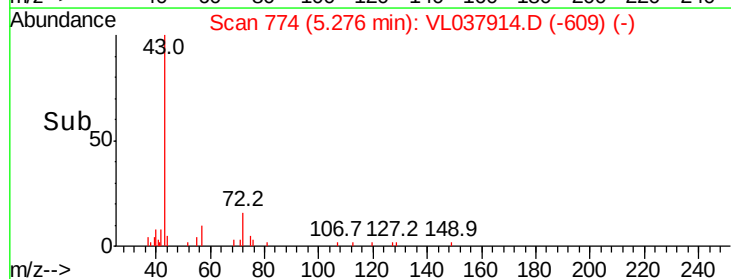
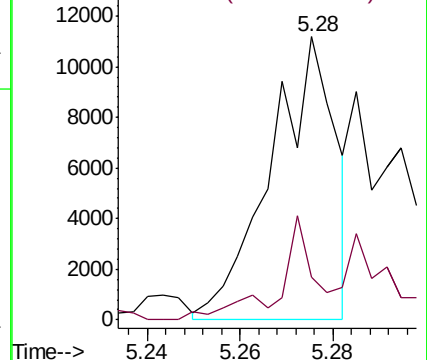
43 100

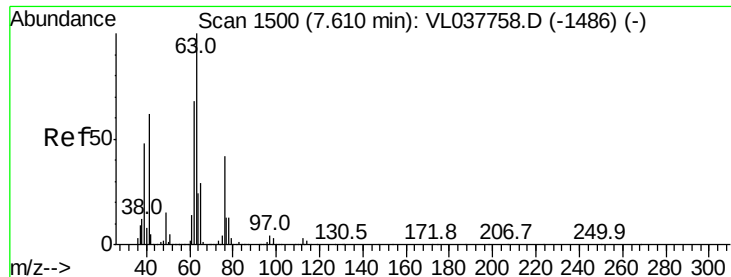
72 53.2 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.240 ppbv

RT: 7.20 Instrument: MSVOA_1

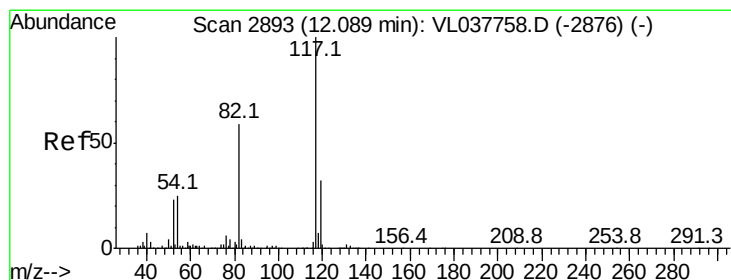
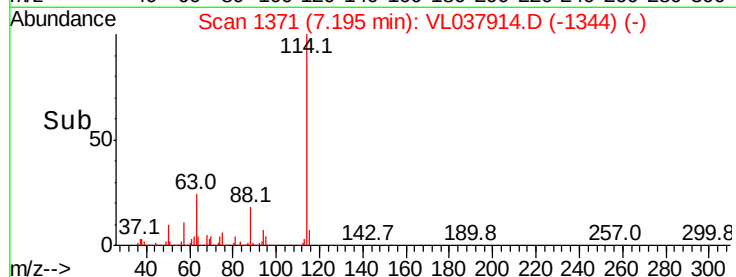
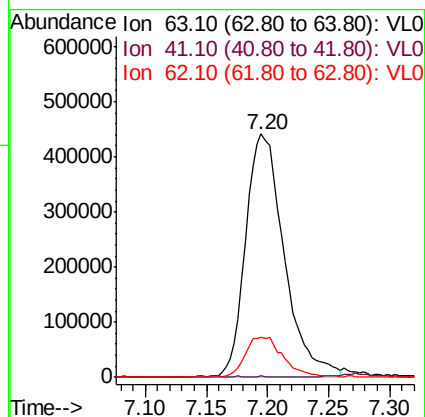
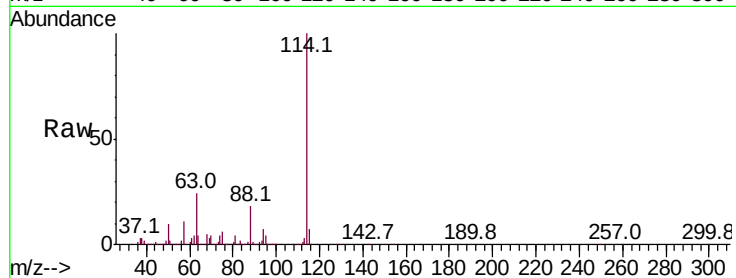
Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Oct 2021 13:19 VMP-5-IMPLANTDL

Tot Ion: 63 Resp: 963307

Ion	Ratio	Lower	Upper
63	100		
41	0.4	49.8	74.6#
62	16.5	54.6	82.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

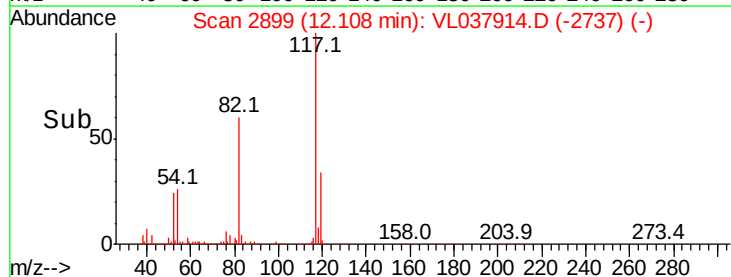
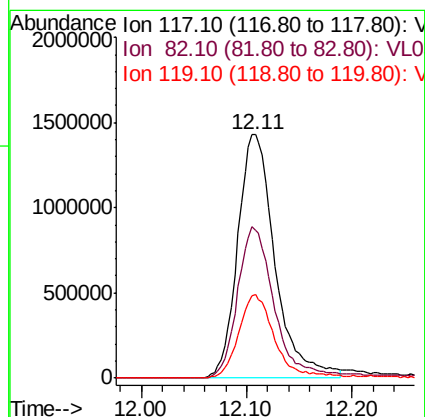
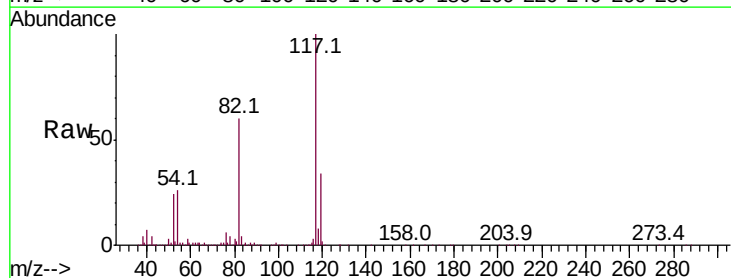
Delta R.T. 0.02 min

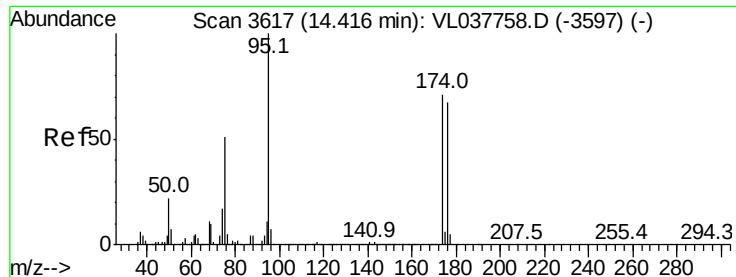
Lab File: VL037914.D

Acq: 27 Oct 2021 13:19

Tgt Ion: 117 Resp: 3519400

Ion	Ratio	Lower	Upper
117	100		
82	63.5	52.2	78.2
119	34.2	26.0	39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.608 ppbv

RT: 14.44 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 15:19 VMP-5-IMPLANTDL

Tot Ion: 95 Resp: 2364730

Ion Ratio Lower Upper

95 100

174 75.2 57.8 86.6

175 5.5 4.7 7.1

