

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037475.D
 Acq On : 16 Aug 2021 23:57
 Operator : SY/AP
 Sample : M1458-14 0.03 LOQ
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 17 02:23:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

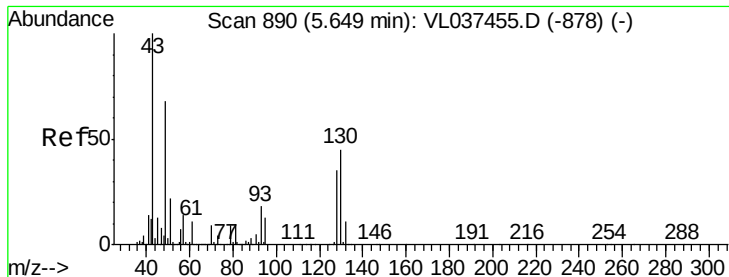
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1401832	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4119418	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3532404	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2545525	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	7654	0.034	ppbv	90
3) Chlorodifluoromethane	2.98	51	14932	0.056	ppbv #	91
5) Vinyl Chloride	3.25	62	4288	0.044	ppbv #	79
7) Chloroethane	3.55	64	1667	0.050	ppbv #	39
8) Dichlorotetrafluoroethane	3.18	85	7654	0.033	ppbv #	51
9) Propene	3.01	41	8086	0.084	ppbv #	60
11) Trichlorofluoromethane	3.93	101	6382	0.030	ppbv	84
13) Ethanol	3.61	45	433	0.046	ppbv #	39
16) 1,3-Butadiene	3.32	39	3921	0.043	ppbv	84
20) Methylene Chloride	4.34	84	9233	0.129	ppbv #	49
31) cis-1,2-Dichloroethene	5.54	61	6936	0.043	ppbv #	68
37) 1,2-Dichloroethane	6.29	62	6592	0.038	ppbv	97
39) 1,2-Dichloropropane	7.22	63	14312	0.108	ppbv #	33

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :
MSVOA_L
ClientSampled :

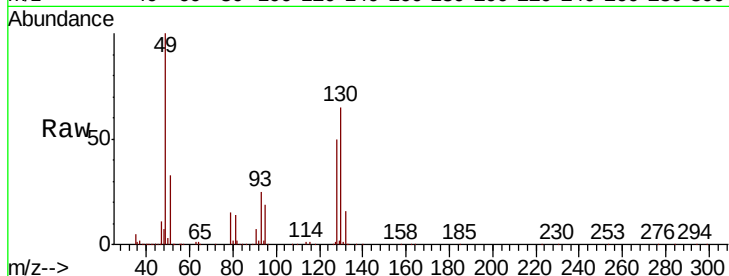
Tot Ion: 49 Resp: 1401832

Ion Ratio Lower Upper

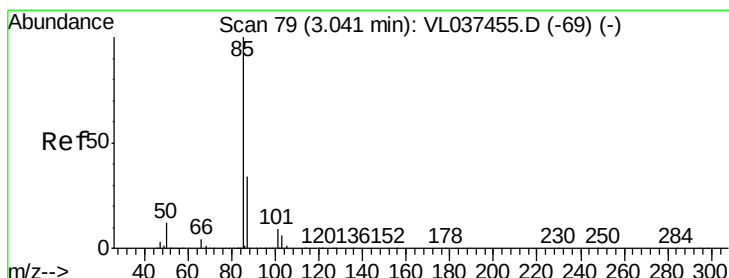
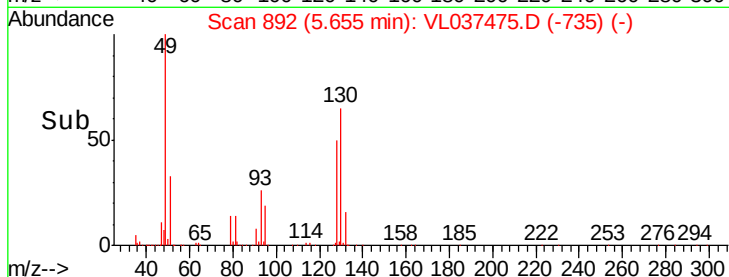
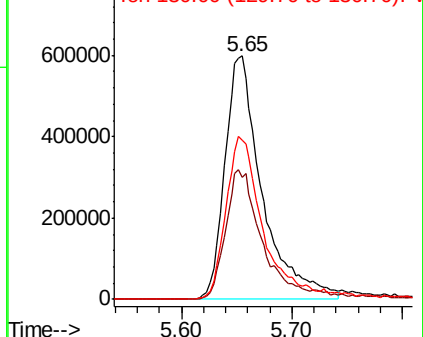
49 100

128 56.8 27.5 82.4

130 68.8 34.0 101.8



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: 0.034 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.14 min

Lab File: VL037475.D

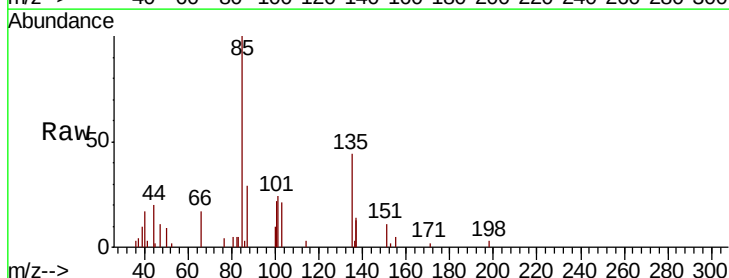
Acq: 16 Aug 2021 23:57

Tgt Ion: 85 Resp: 7654

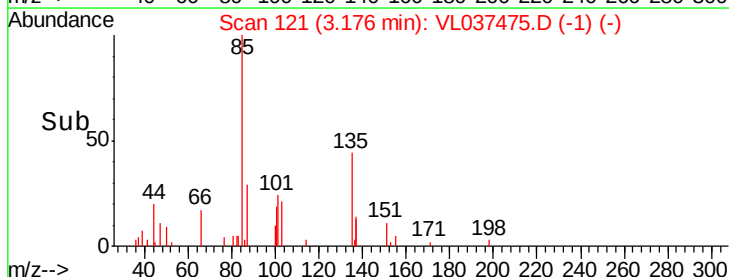
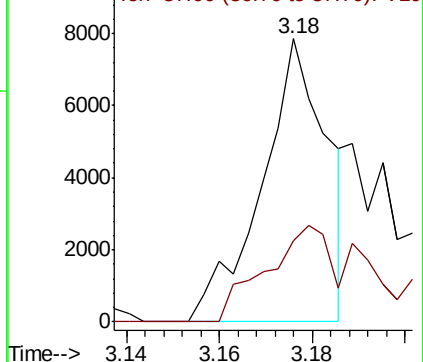
Ion Ratio Lower Upper

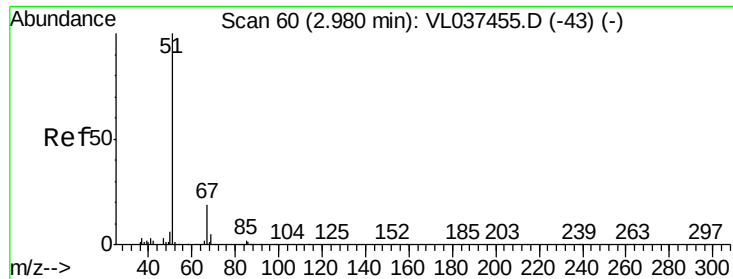
85 100

87 28.7 27.6 41.4



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





#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :

MSVOA_L

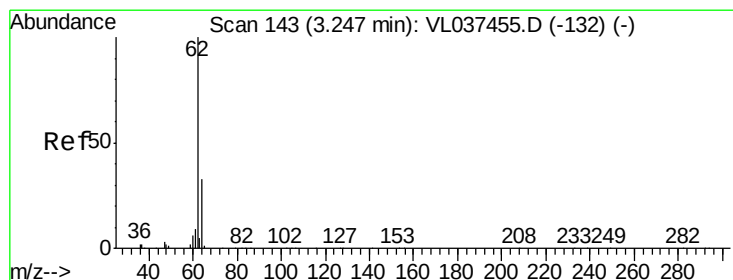
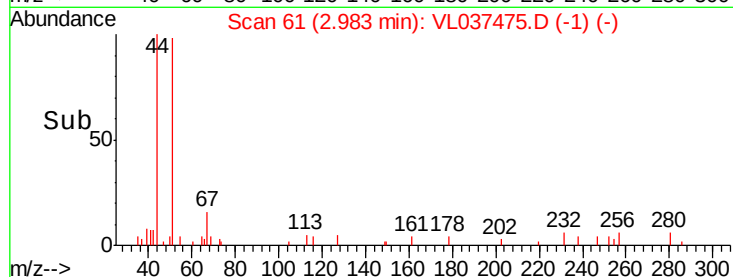
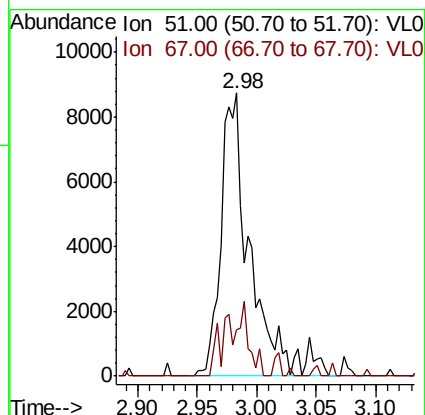
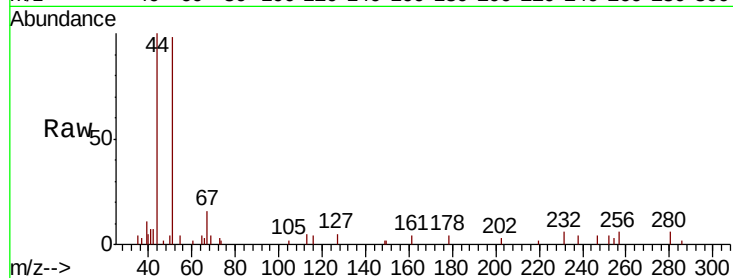
ClientSampleId :

Tot Ion: 51 Resp: 14932

Ion Ratio Lower Upper

51 100

67 21.5 14.2 21.2#



#5

Vinyl Chloride

Concen: 0.044 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL037475.D

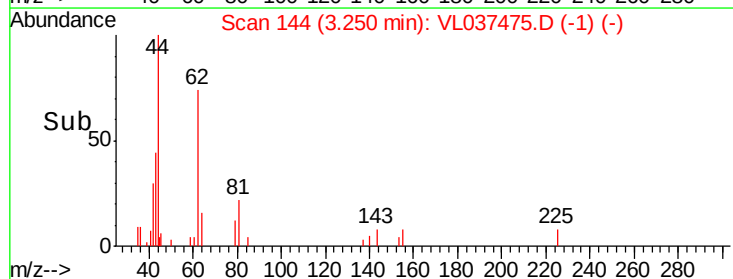
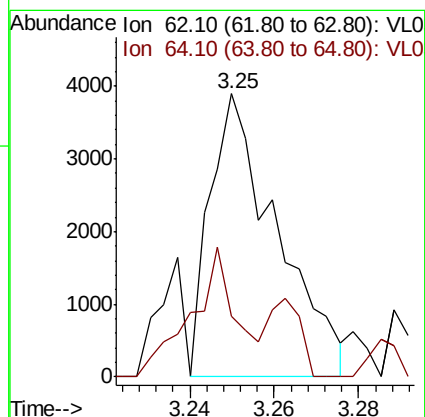
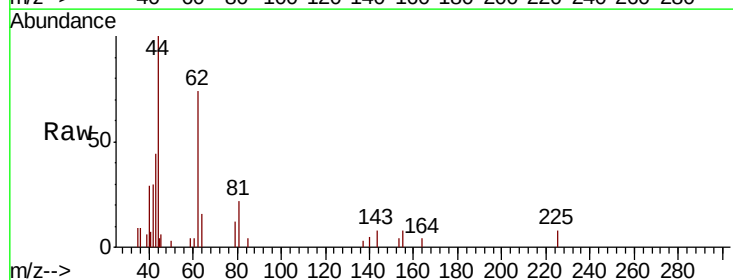
Acq: 16 Aug 2021 23:57

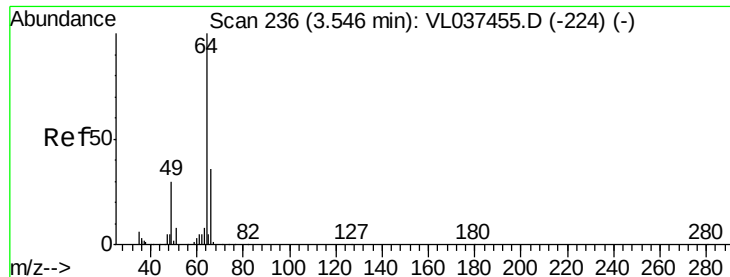
Tgt Ion: 62 Resp: 4288

Ion Ratio Lower Upper

62 100

64 21.3 26.5 39.7#





#7

Chloroethane

Concen: 0.050 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.00 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :

MSVOA_L

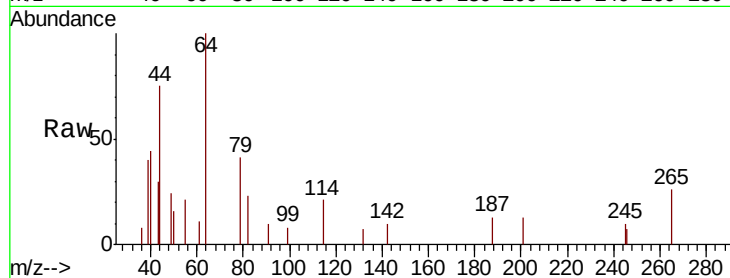
ClientSampleId :

Tot Ion: 64 Resp: 1667

Ion Ratio Lower Upper

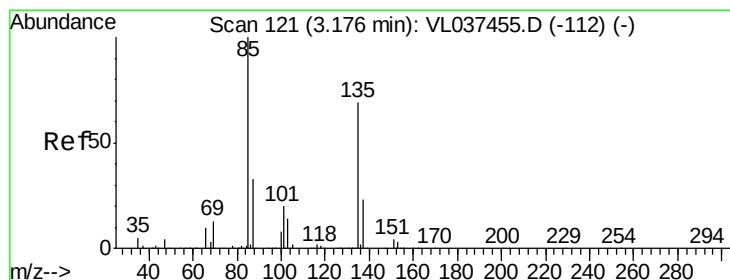
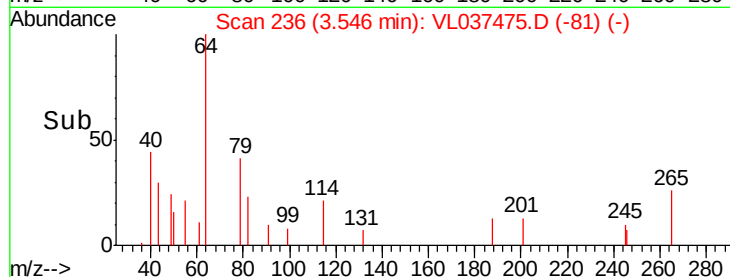
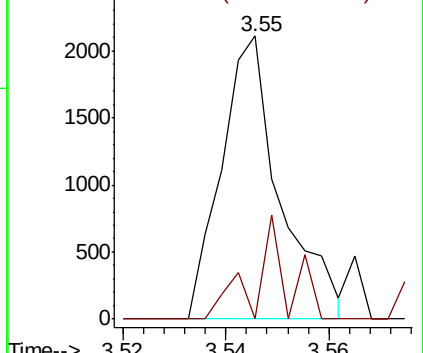
64 100

66 0.0 28.6 43.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.033 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL037475.D

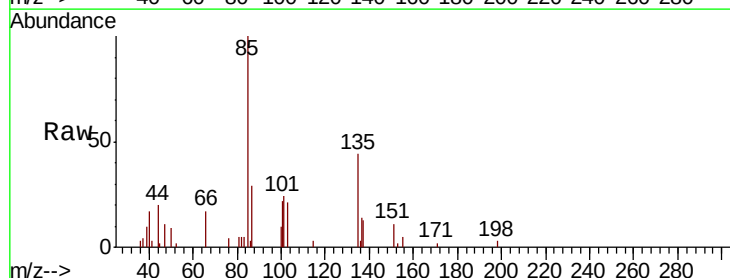
Acq: 16 Aug 2021 23:57

Tgt Ion: 85 Resp: 7654

Ion Ratio Lower Upper

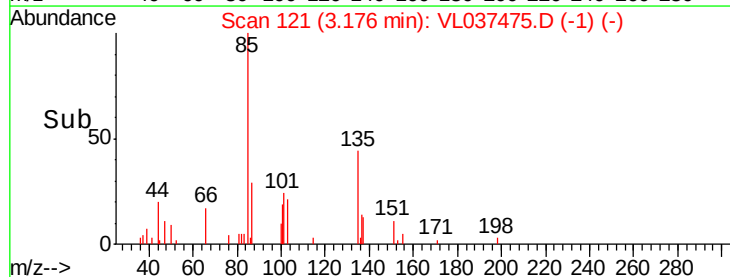
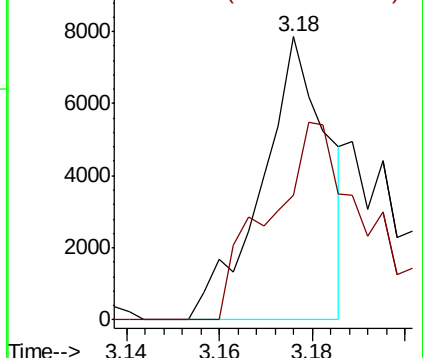
85 100

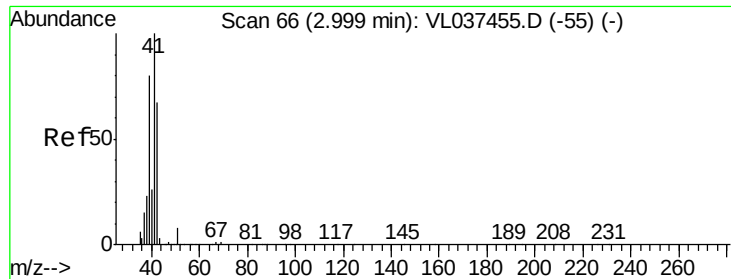
135 114.9 58.8 88.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.084 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :

MSVOA_L

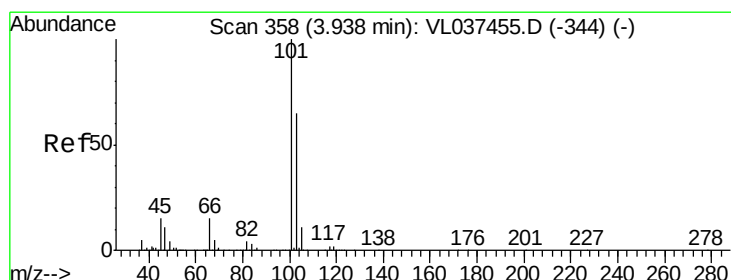
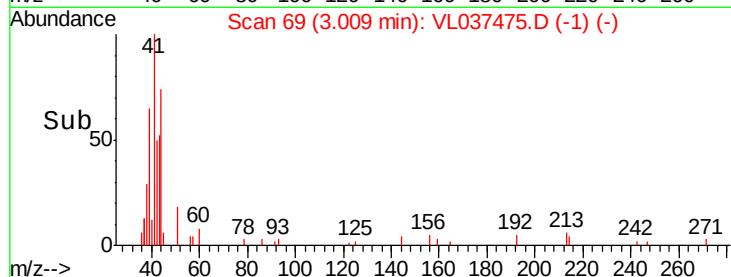
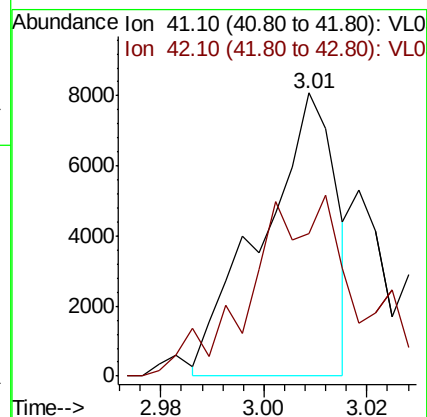
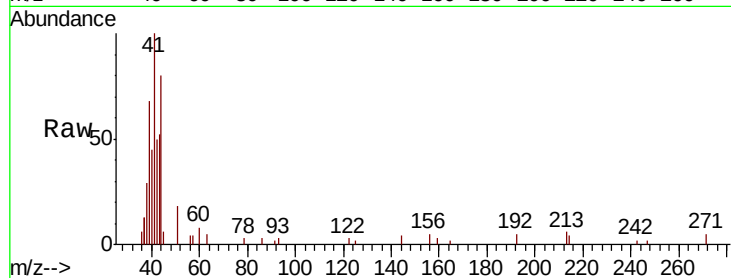
ClientSampleId :

Tot Ion: 41 Resp: 8086

Ion Ratio Lower Upper

41 100

42 99.3 53.7 80.5#



#11

Trichlorofluoromethane

Concen: 0.030 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037475.D

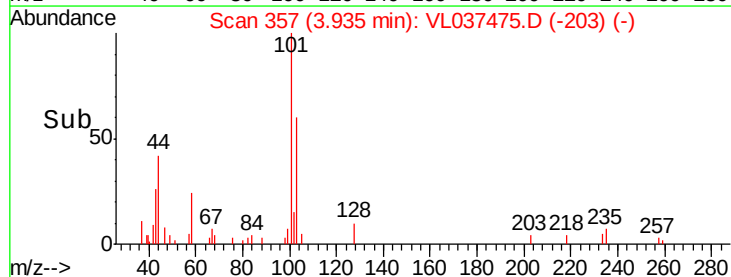
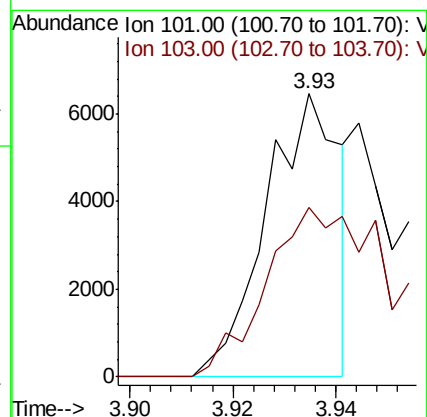
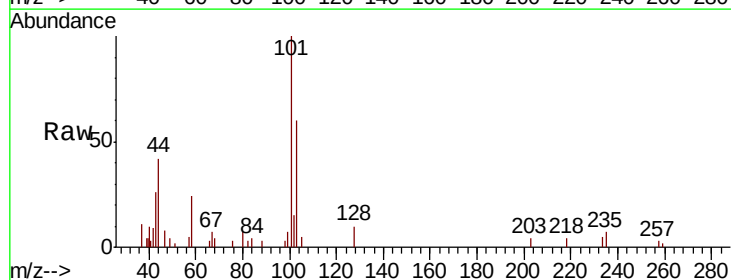
Acq: 16 Aug 2021 23:57

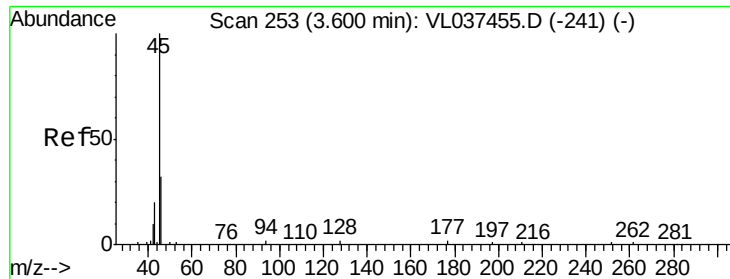
Tgt Ion: 101 Resp: 6382

Ion Ratio Lower Upper

101 100

103 52.0 51.8 77.6

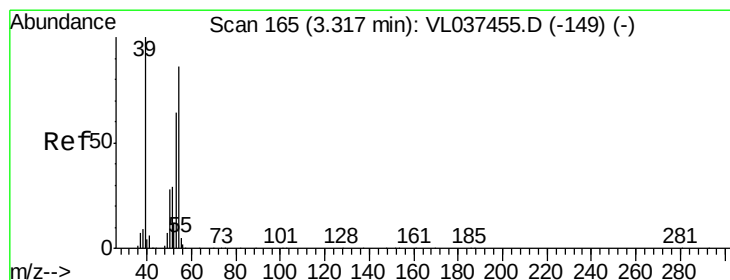
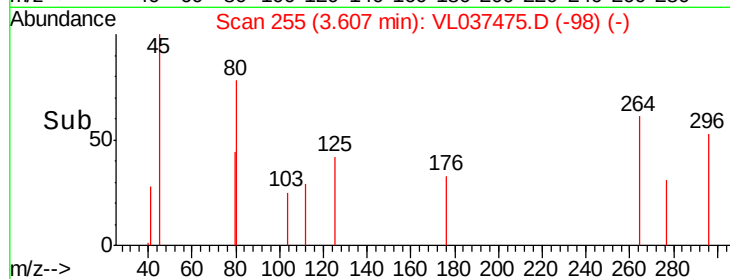
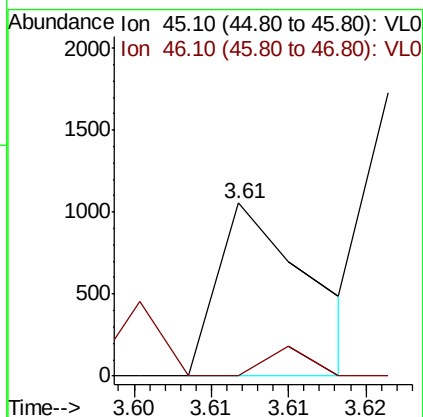
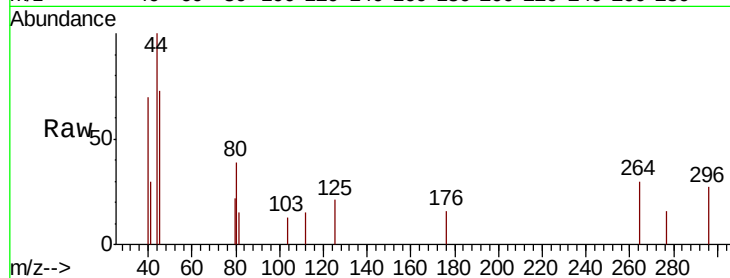




#13
Ethanol
Concen: 0.046 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037475.D
Acq: 16 Aug 2021 23:57

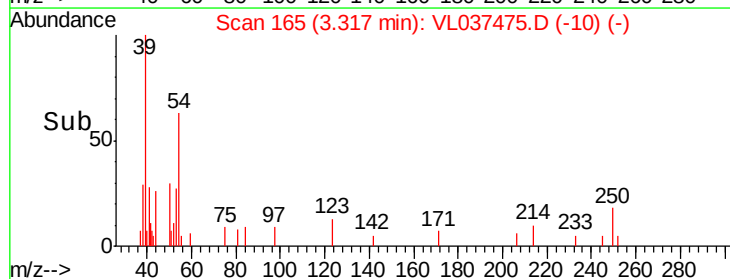
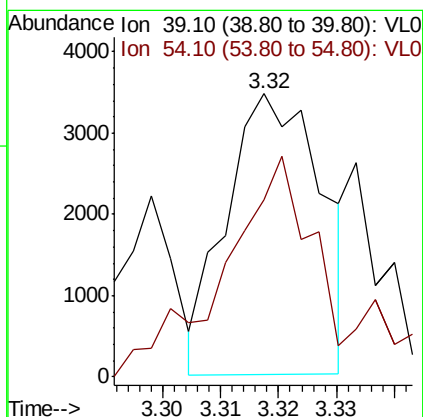
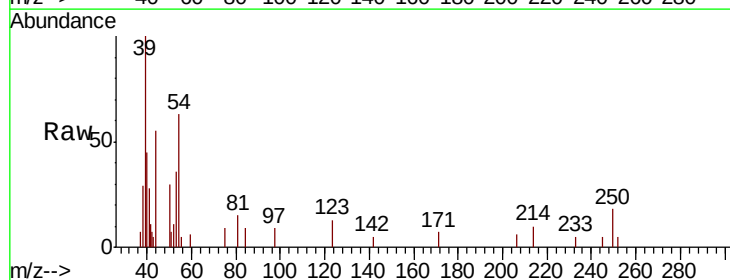
Instrument :
MSVOA_L
ClientSampleId :

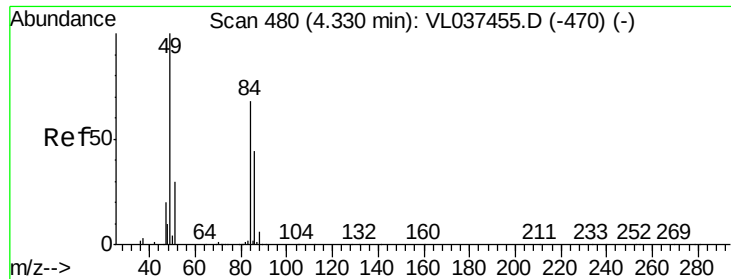
Tot Ion: 45 Resp: 433
Ion Ratio Lower Upper
45 100
46 0.0 14.1 56.5#



#16
1,3-Butadiene
Concen: 0.043 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.00 min
Lab File: VL037475.D
Acq: 16 Aug 2021 23:57

Tgt Ion: 39 Resp: 3921
Ion Ratio Lower Upper
39 100
54 93.9 63.7 95.5

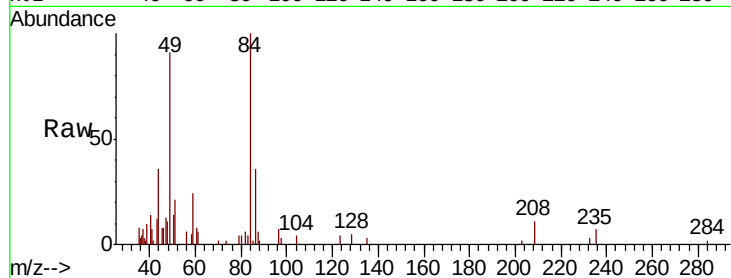




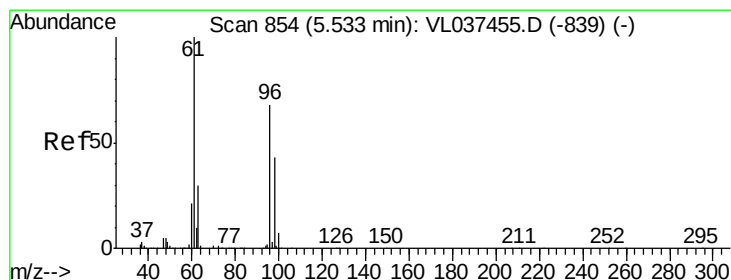
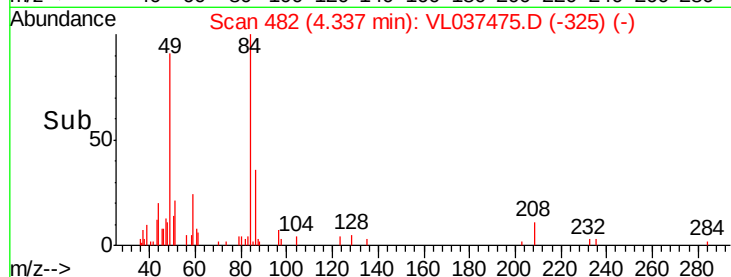
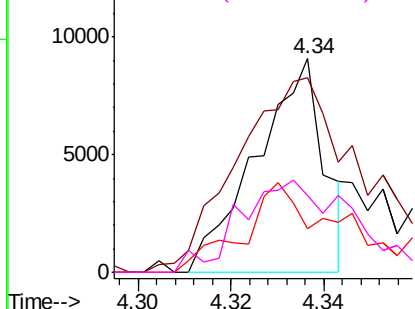
#20
Methylene Chloride
Concen: 0.129 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL037475.D
Acq: 16 Aug 2021 23:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 9233
Ion Ratio Lower Upper
84 100
49 81.1 118.2 177.2#
51 15.5 36.6 55.0#
86 25.5 51.8 77.6#

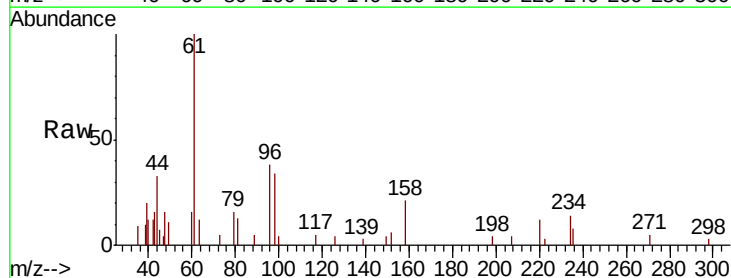


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

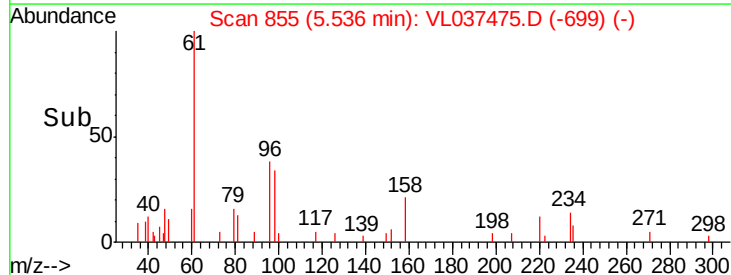
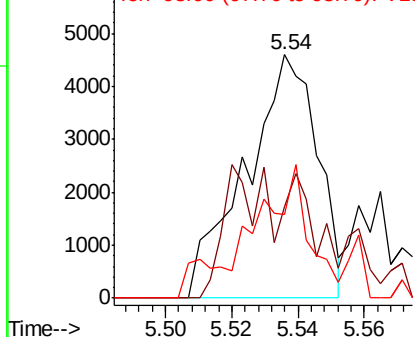


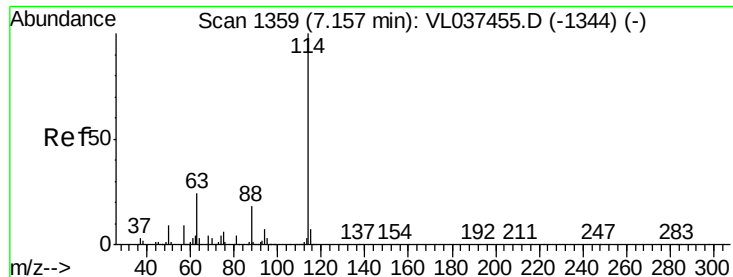
#31
cis-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 5.54 min Scan# 855
Delta R.T. 0.00 min
Lab File: VL037475.D
Acq: 16 Aug 2021 23:57

Tgt Ion: 61 Resp: 6936
Ion Ratio Lower Upper
61 100
96 37.6 54.8 82.2#
98 28.2 34.2 51.2#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

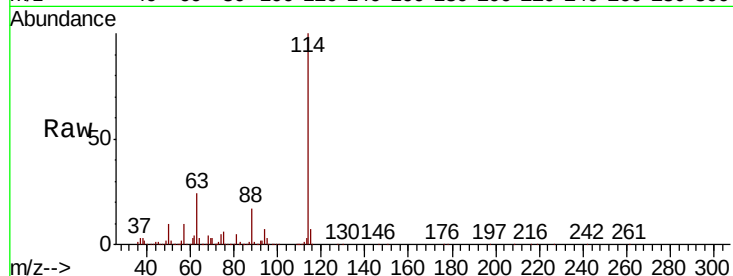




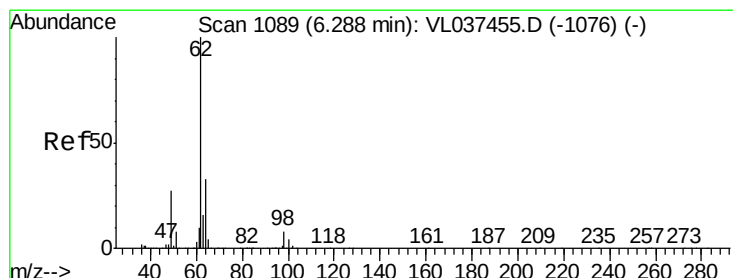
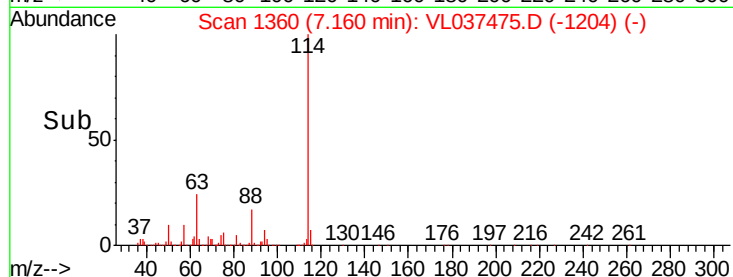
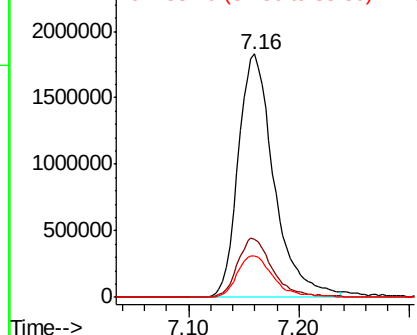
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037475.D
 Acq: 16 Aug 2021 23:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4119418
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.3 28.9
 88 17.8 14.2 21.4

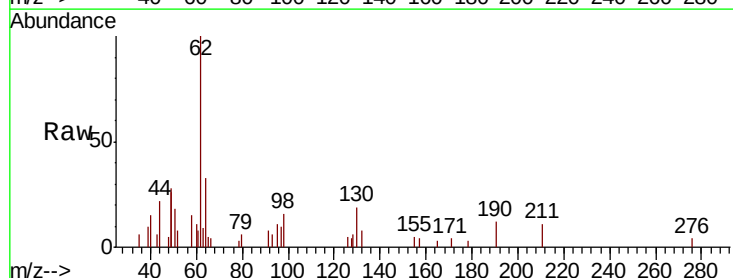


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

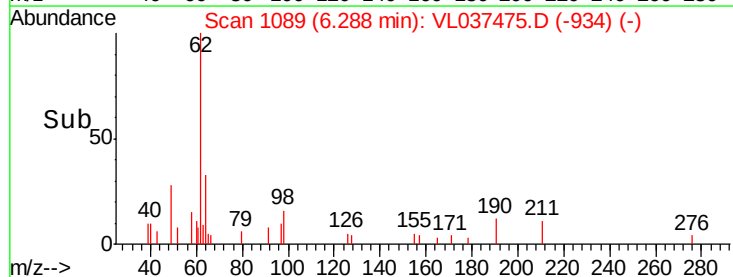
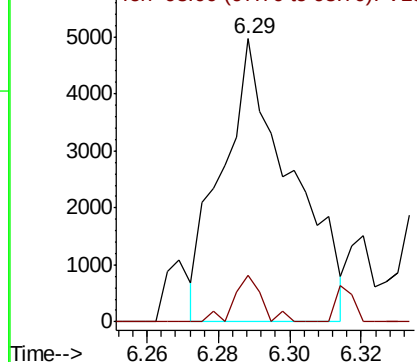


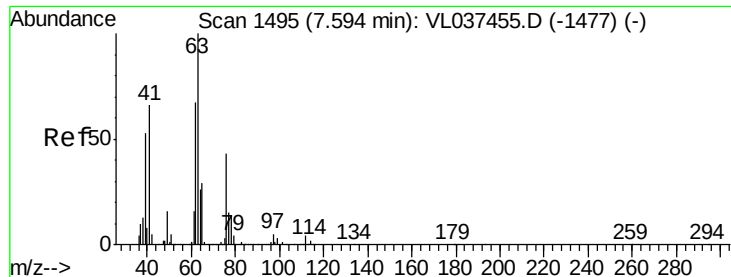
#37
 1,2-Dichloroethane
 Concen: 0.038 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VL037475.D
 Acq: 16 Aug 2021 23:57

Tgt Ion: 62 Resp: 6592
 Ion Ratio Lower Upper
 62 100
 98 6.5 6.0 9.0



Abundance Ion 62.10 (61.80 to 62.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 0.108 ppbv

RT: 7.22 min Scan# 1378

Delta R.T. -0.38 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :

MSVOA_L

ClientSampleId :

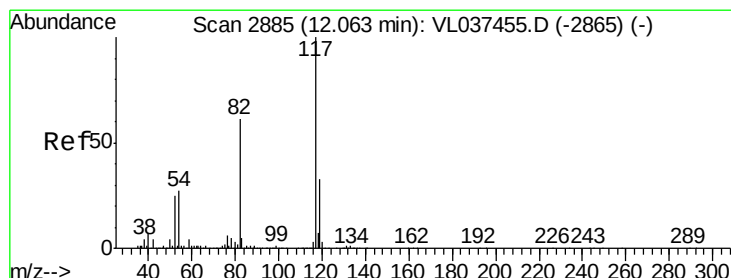
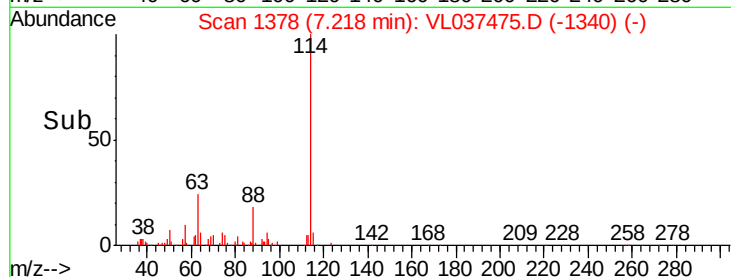
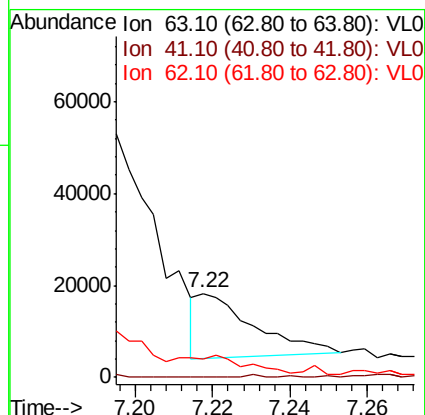
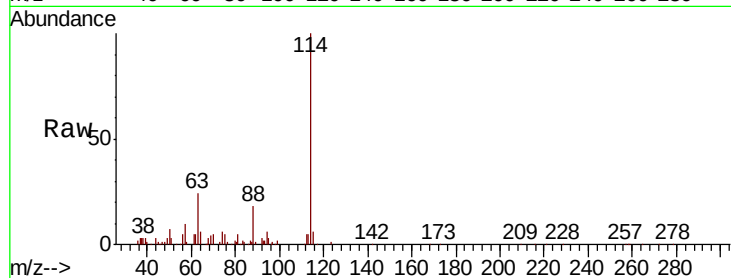
Tot Ion: 63 Resp: 14312

Ion Ratio Lower Upper

63 100

41 1.6 52.4 78.6#

62 24.1 53.6 80.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

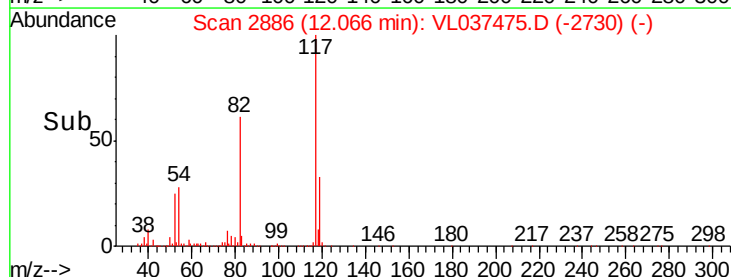
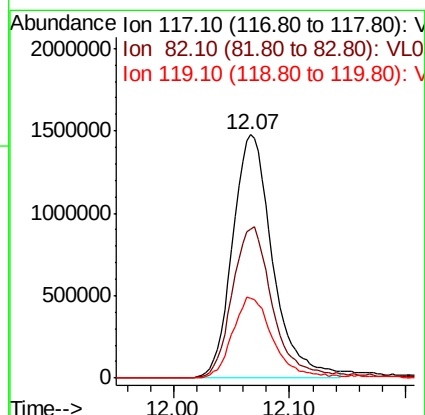
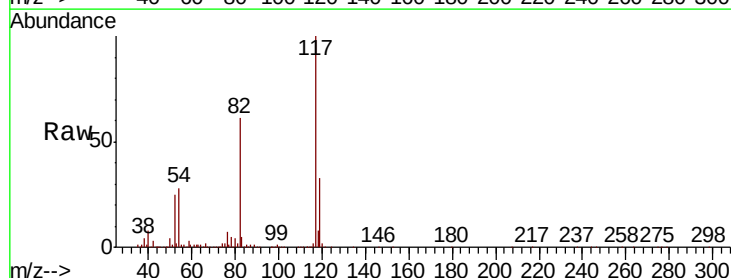
Tgt Ion: 117 Resp: 3532404

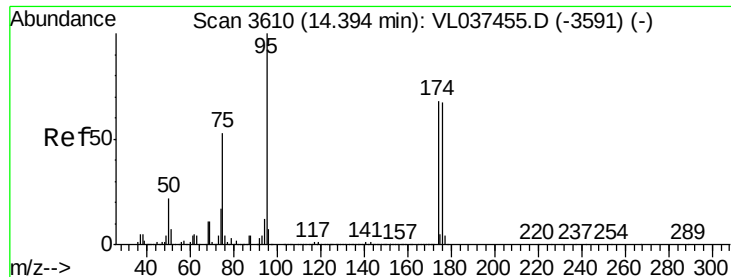
Ion Ratio Lower Upper

117 100

82 65.0 52.9 79.3

119 35.1 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.143 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037475.D

Acq: 16 Aug 2021 23:57

Instrument :

MSVOA_L

ClientSampleId :

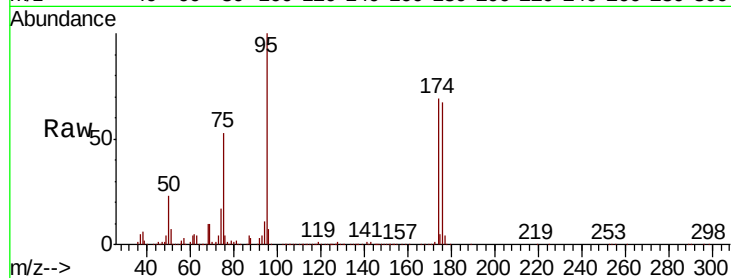
Tot Ion: 95 Resp: 2545525

Ion Ratio Lower Upper

95 100

174 74.2 59.6 89.4

175 5.4 4.6 7.0



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

