

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052421\
 Data File : VL037052.D
 Acq On : 24 May 2021 17:25
 Operator : SY/AP
 Sample : M2262-13.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 25 01:50:56 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1105548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3462960	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3001246	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2160445	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

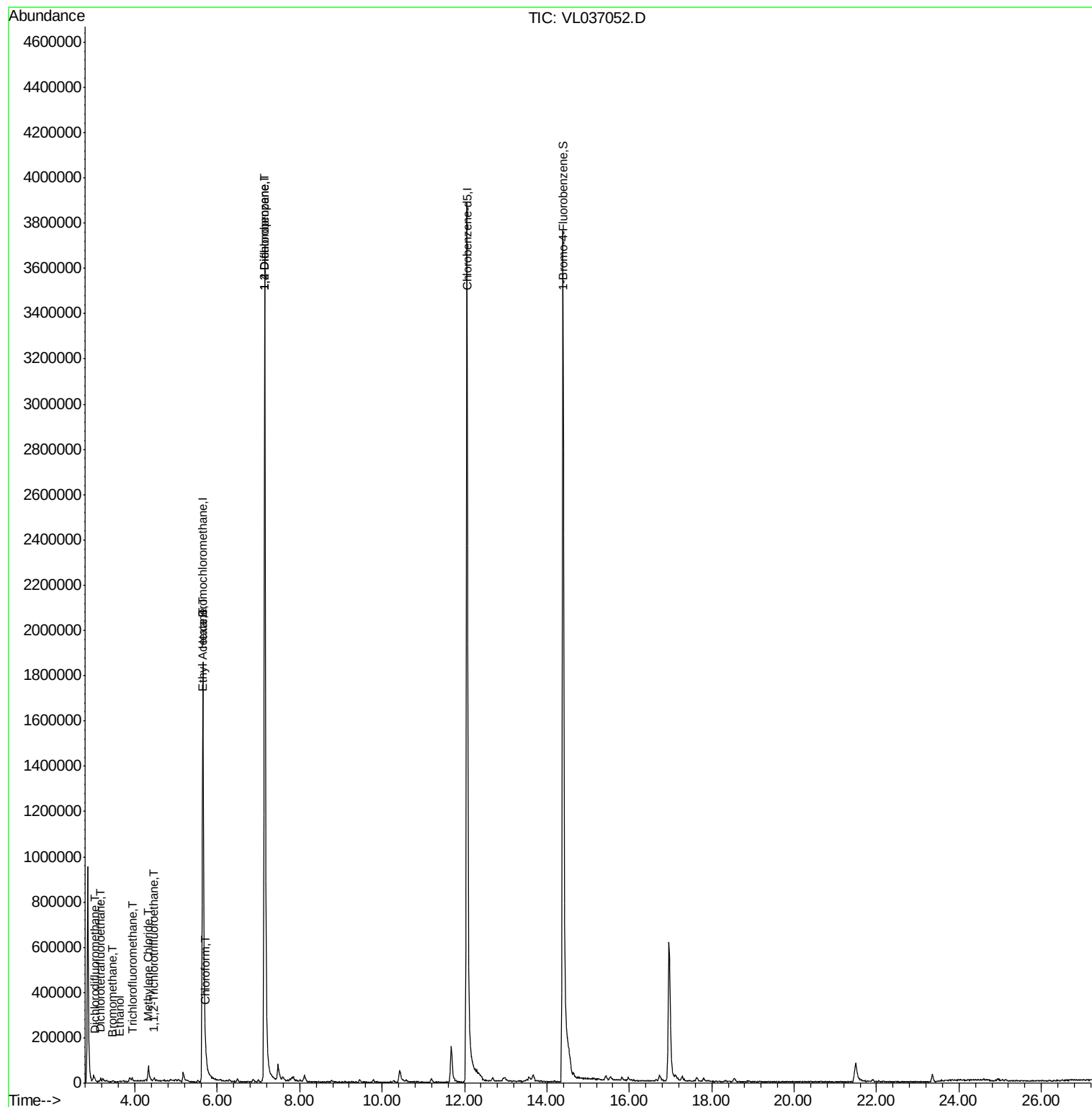
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	6695	0.036	ppbv	99
6) Bromomethane	3.45	94	1317	0.033	ppbv #	34
8) Dichlorotetrafluoroethane	3.17	85	7759	0.044	ppbv	85
11) Trichlorofluoromethane	3.93	101	7874	0.045	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.46	101	3858	0.031	ppbv #	49
13) Ethanol	3.62	45	821	0.085	ppbv #	35
20) Methylene Chloride	4.32	84	12223	0.201	ppbv	93
25) Ethyl Acetate	5.66	43	9404	0.035	ppbv #	84
26) Hexane	5.66	57	11485	0.083	ppbv #	56
29) Chloroform	5.73	83	8154	0.042	ppbv	100
39) 1,2-Dichloropropane	7.15	63	806946	7.023	ppbv #	26

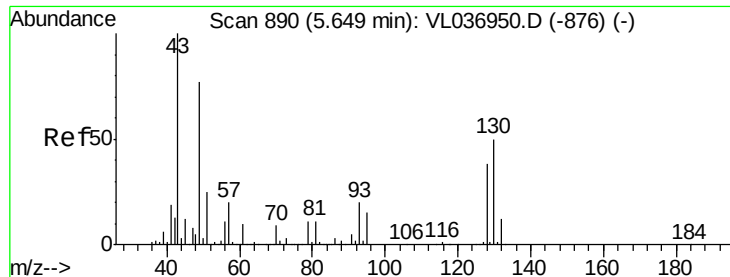
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

ClientSampleId :

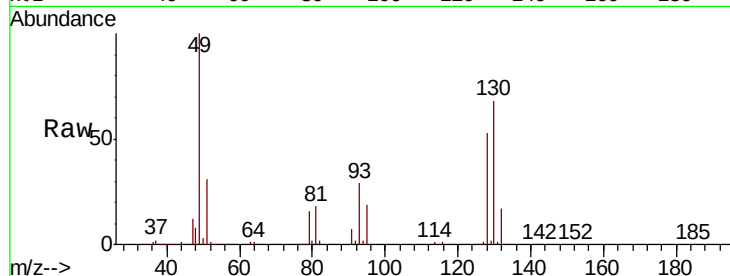
Tot Ion: 49 Resp: 1105548

Ion Ratio Lower Upper

49 100

128 59.6 26.9 80.7

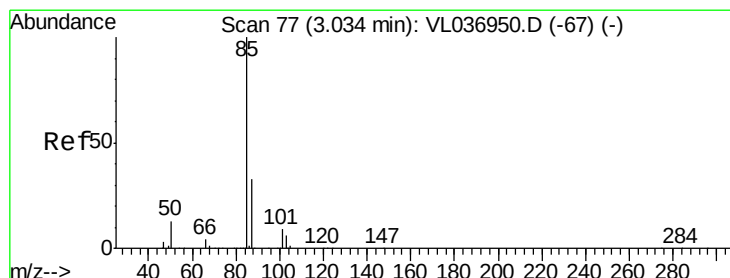
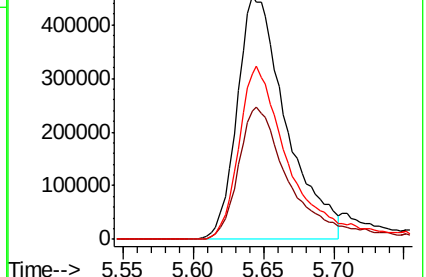
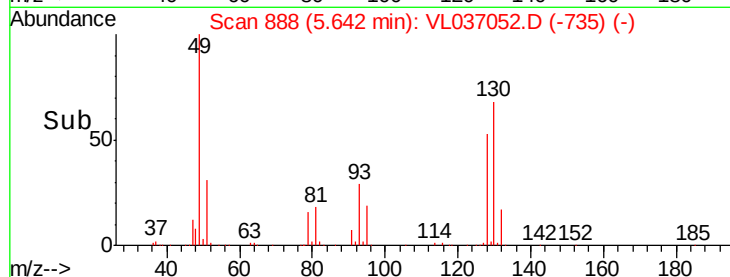
130 77.0 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037052.D

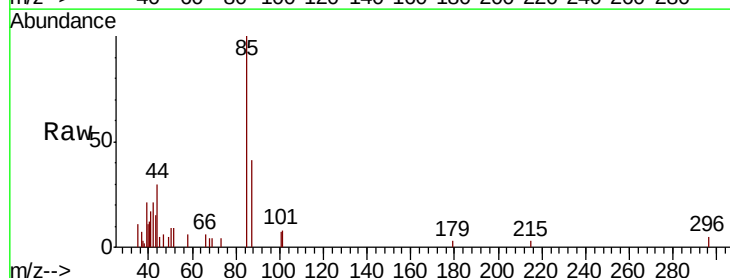
Acq: 24 May 2021 17:25

Tgt Ion: 85 Resp: 6695

Ion Ratio Lower Upper

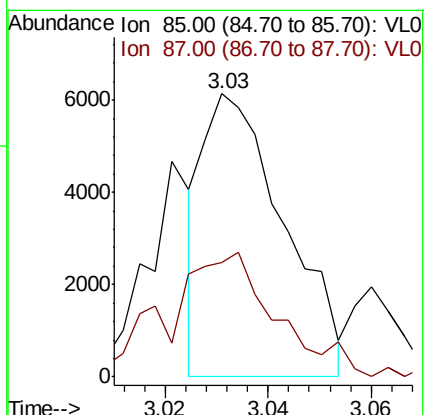
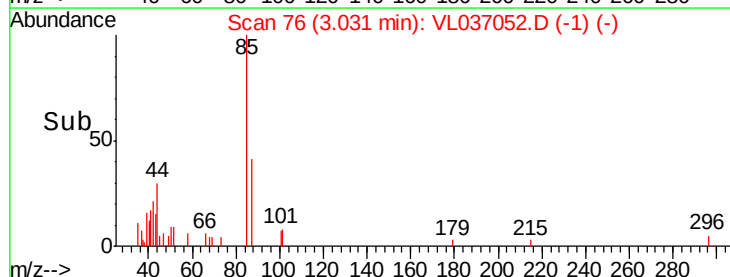
85 100

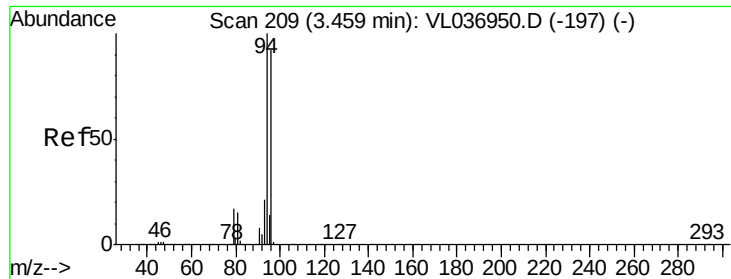
87 32.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#6

Bromomethane

Concen: 0.033 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

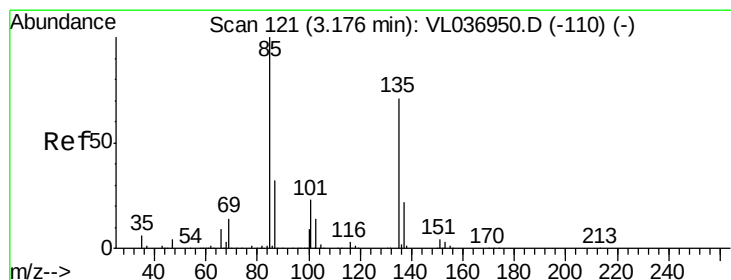
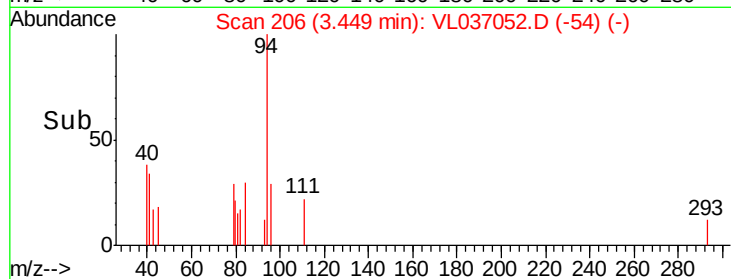
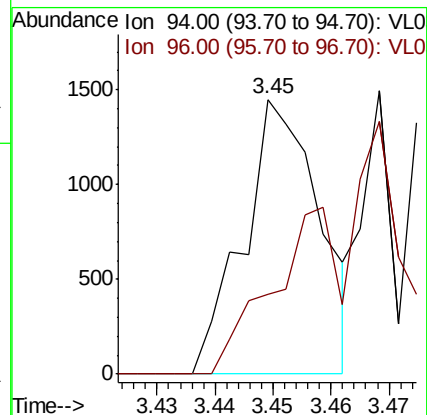
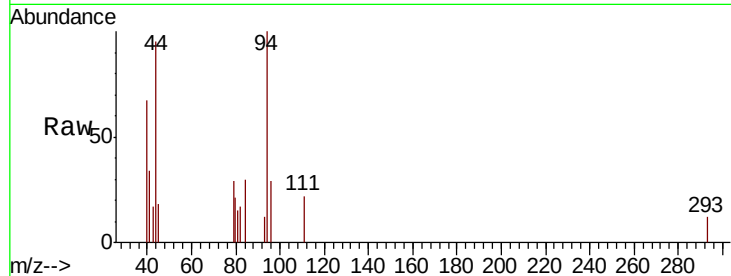
ClientSampleId :

Tot Ion: 94 Resp: 1317

Ion Ratio Lower Upper

94 100

96 29.2 74.0 111.0#



#8

Dichlorotetrafluoroethane

Concen: 0.044 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL037052.D

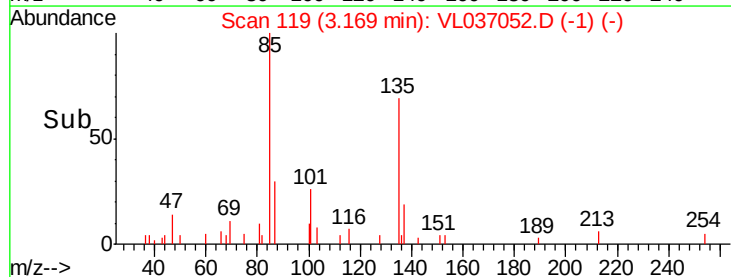
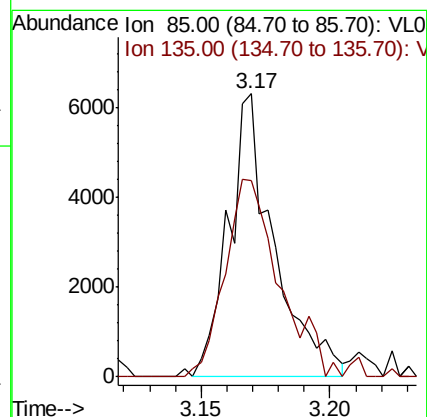
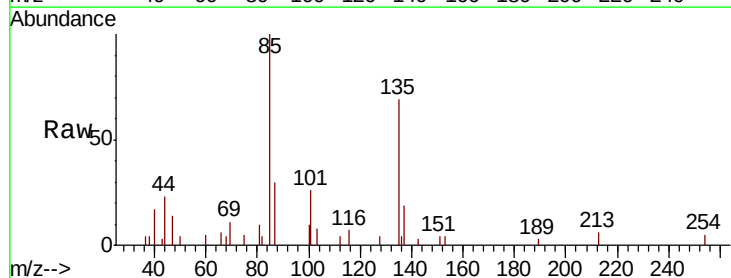
Acq: 24 May 2021 17:25

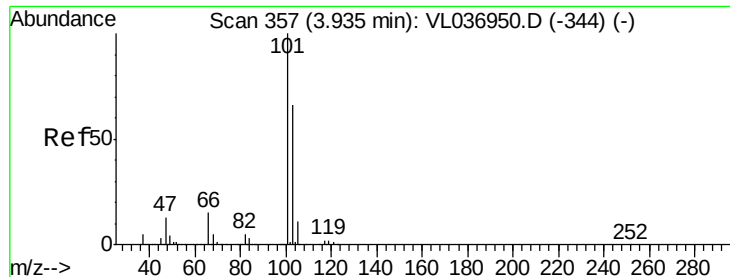
Tgt Ion: 85 Resp: 7759

Ion Ratio Lower Upper

85 100

135 85.0 57.7 86.5





#11

Trichlorofluoromethane

Concen: 0.045 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

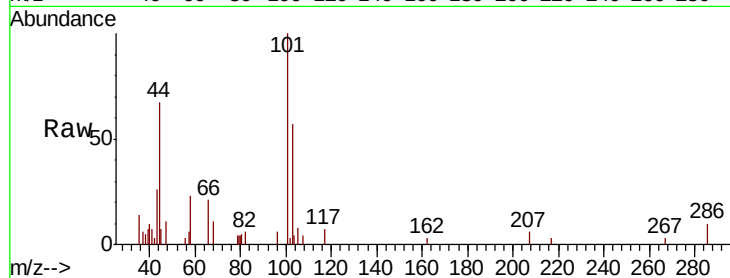
ClientSampleId :

Tot Ion:101 Resp: 7874

Ion Ratio Lower Upper

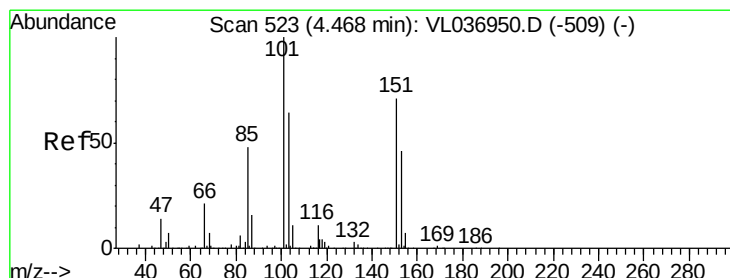
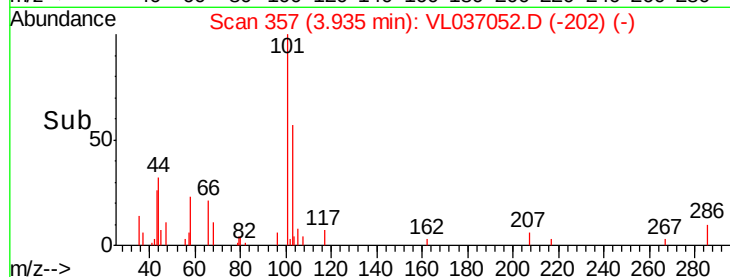
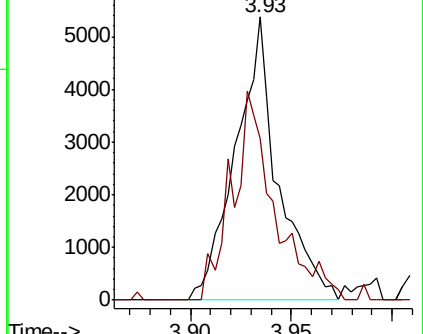
101 100

103 57.3 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.01 min

Lab File: VL037052.D

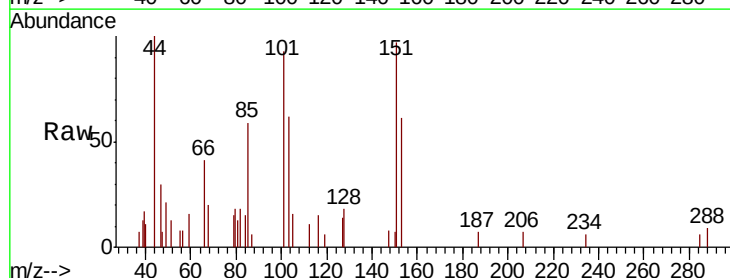
Acq: 24 May 2021 17:25

Tgt Ion:101 Resp: 3858

Ion Ratio Lower Upper

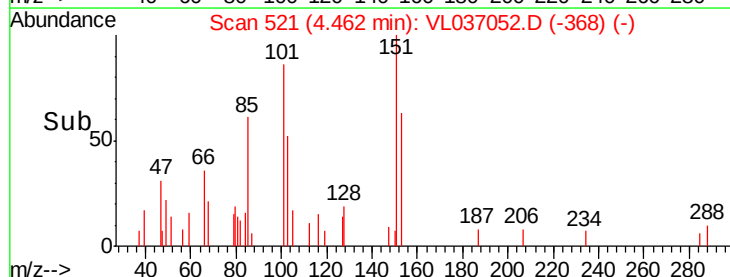
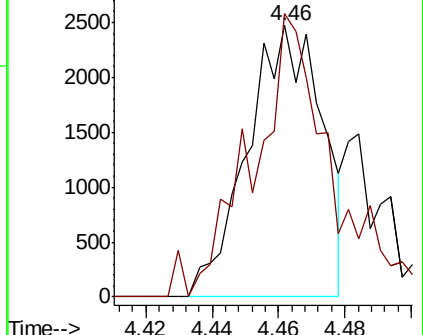
101 100

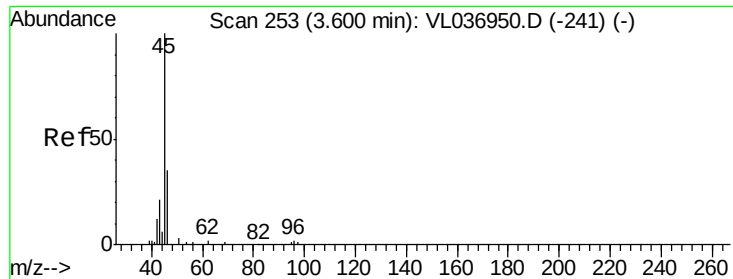
151 114.9 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

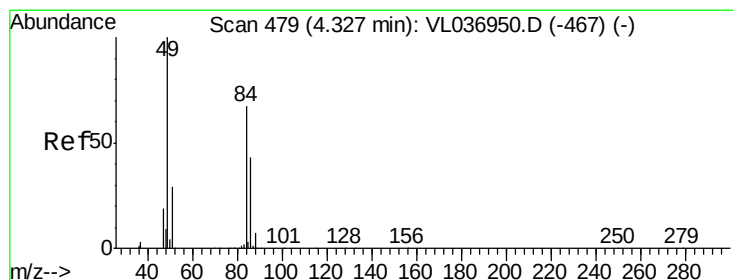
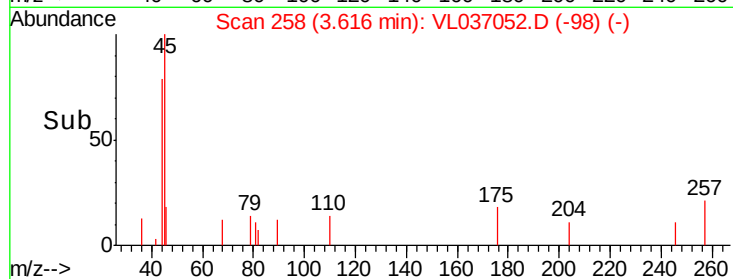
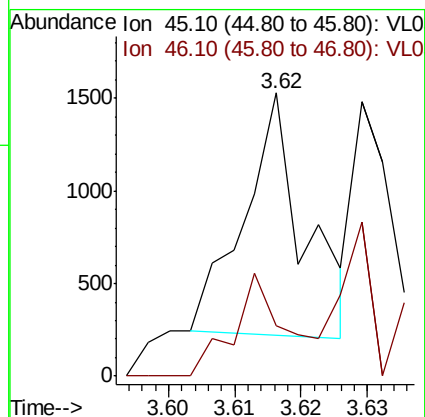
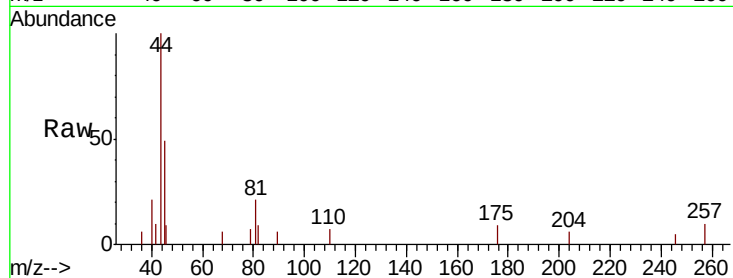




#13
Ethanol
Concen: 0.085 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL037052.D
Acq: 24 May 2021 17:25

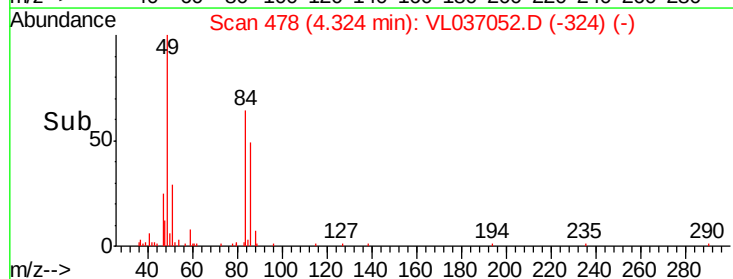
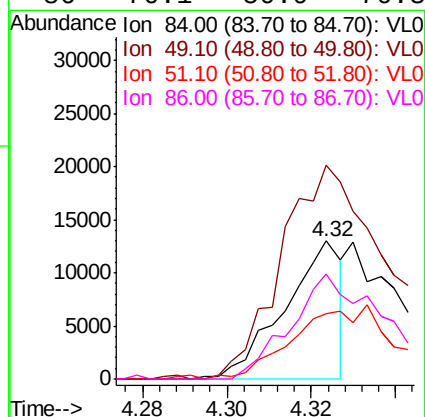
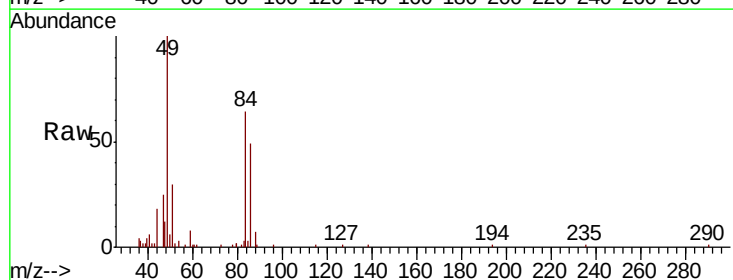
Instrument :
MSVOA_L
ClientSampleId :

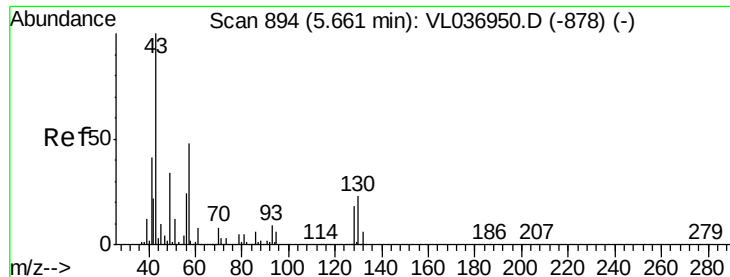
Tot Ion: 45 Resp: 821
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.3#



#20
Methylene Chloride
Concen: 0.201 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL037052.D
Acq: 24 May 2021 17:25

Tgt Ion: 84 Resp: 12223
Ion Ratio Lower Upper
84 100
49 155.1 119.8 179.6
51 44.6 35.1 52.7
86 76.1 50.9 76.3





#25

Ethyl Acetate

Concen: 0.035 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037052.D

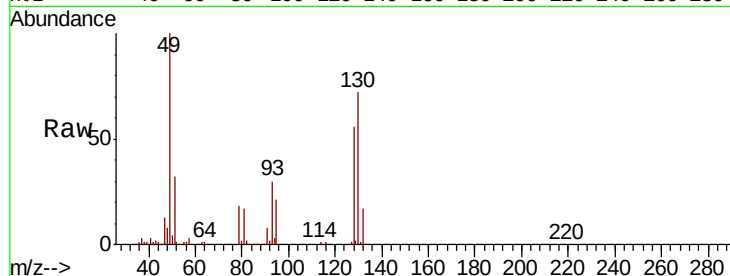
Acq: 24 May 2021 17:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 9404

Ion Ratio Lower Upper

43	100		
45	10.8	7.8	11.8
61	0.0	7.8	11.8#
70	0.0	5.6	8.4#



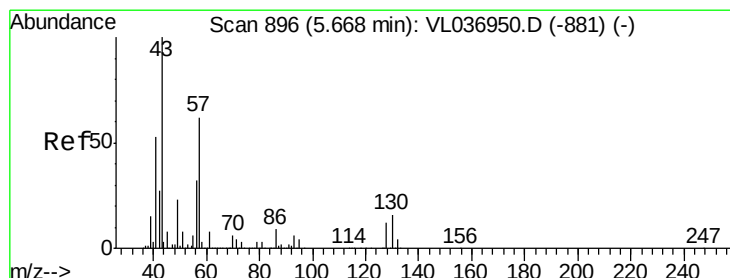
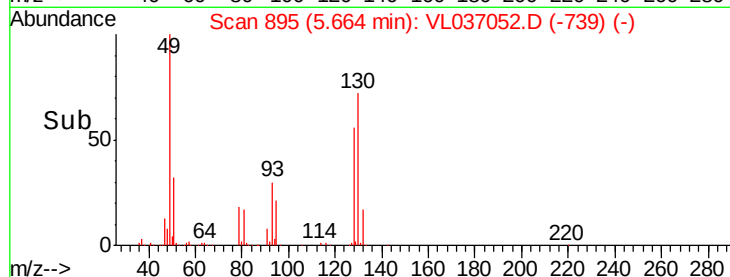
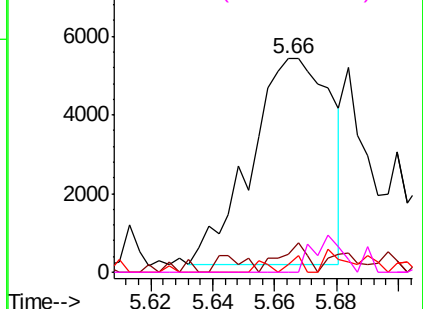
Abundance

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: 0.083 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

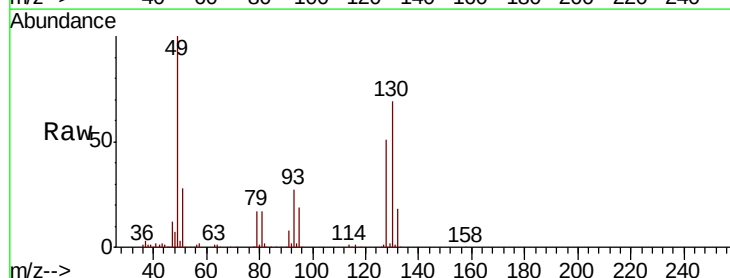
Lab File: VL037052.D

Acq: 24 May 2021 17:25

Tgt Ion: 57 Resp: 11485

Ion Ratio Lower Upper

57	100		
41	139.0	70.5	105.7#
43	139.8	165.8	248.8#
56	70.4	42.2	63.4#



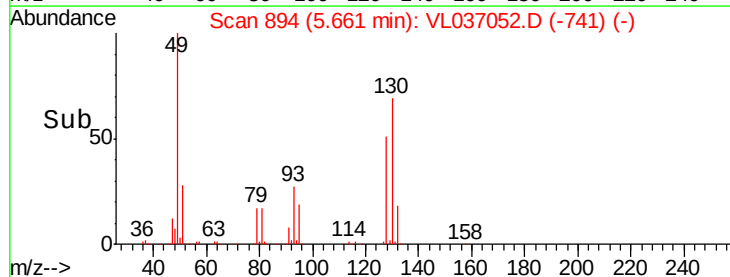
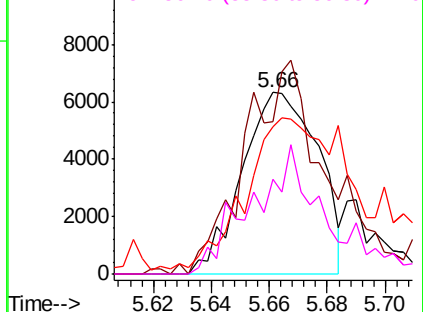
Abundance

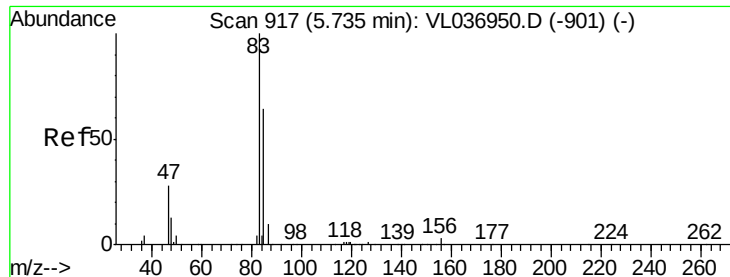
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#29

Chloroform

Concen: 0.042 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.01 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

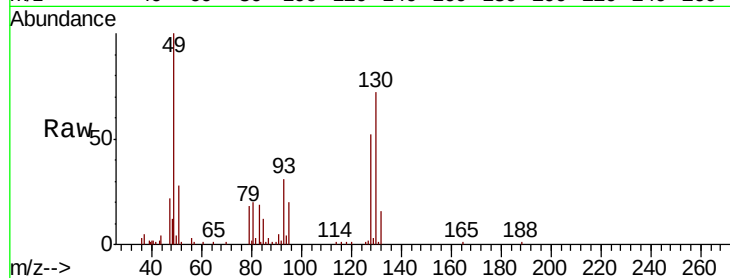
ClientSampled :

Tot Ion: 83 Resp: 8154

Ion Ratio Lower Upper

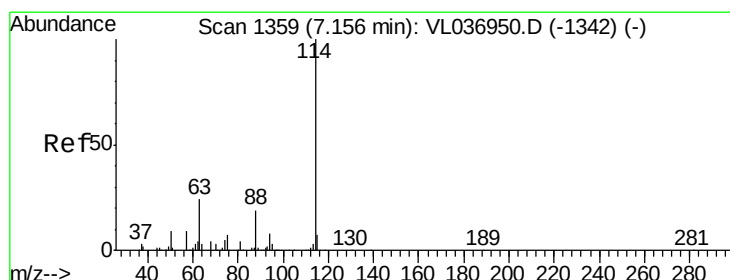
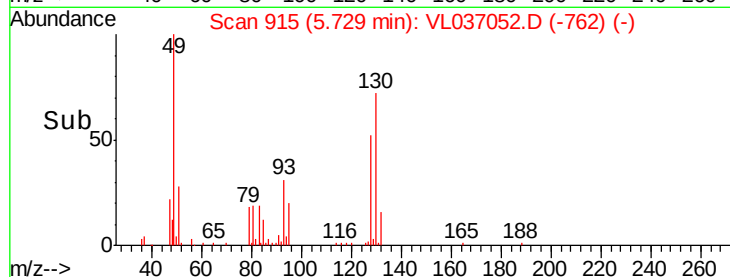
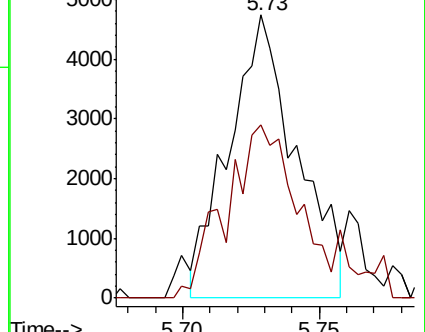
83 100

85 64.0 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

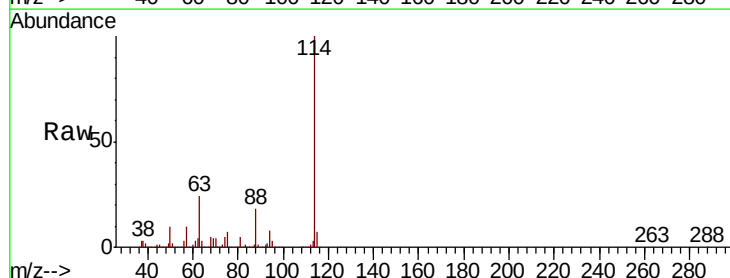
Tgt Ion: 114 Resp: 3462960

Ion Ratio Lower Upper

114 100

63 24.0 19.6 29.4

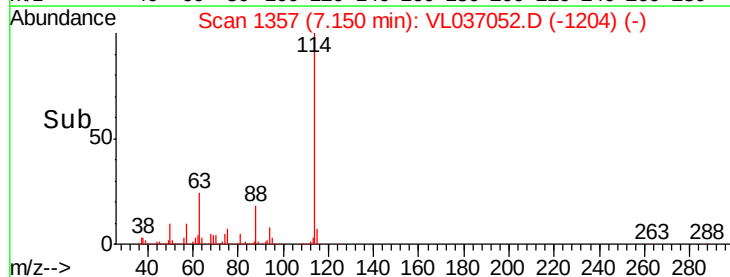
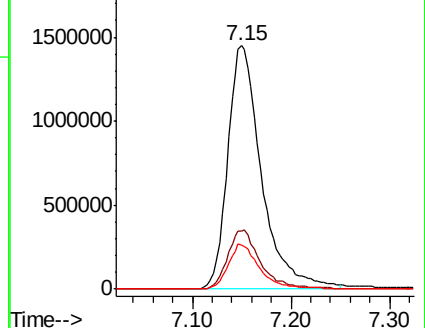
88 17.7 14.6 21.8

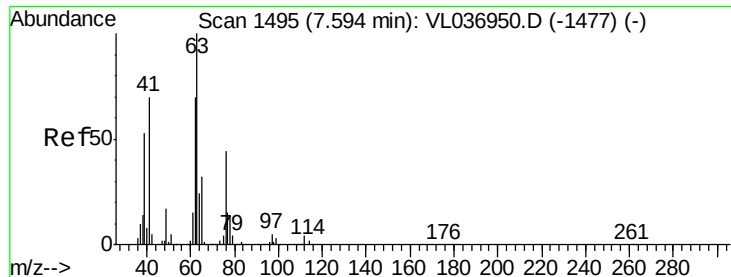


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 7.023 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

ClientSampleId :

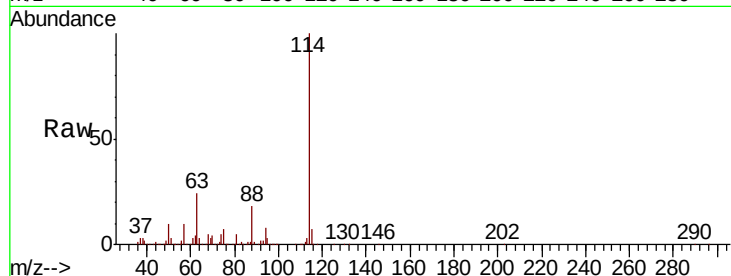
Tot Ion: 63 Resp: 806946

Ion Ratio Lower Upper

63 100

41 0.1 55.7 83.5#

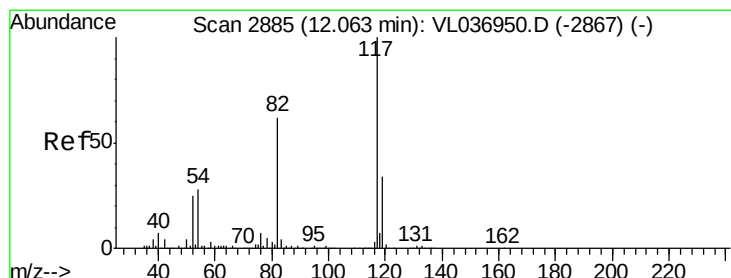
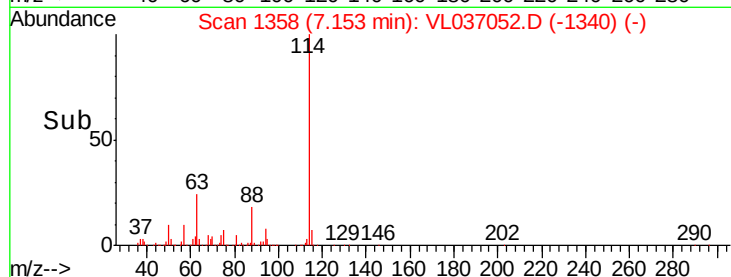
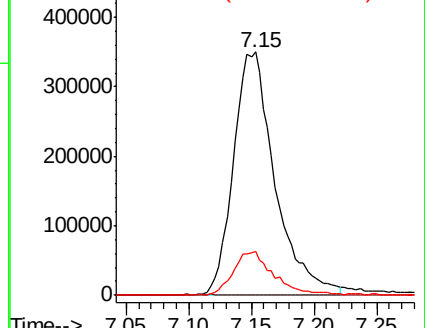
62 18.2 56.2 84.4#



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: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

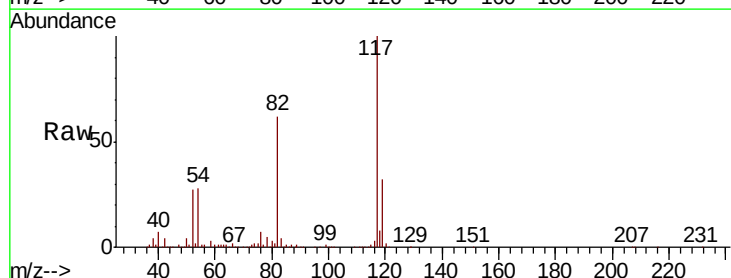
Tgt Ion: 117 Resp: 3001246

Ion Ratio Lower Upper

117 100

82 64.6 52.6 79.0

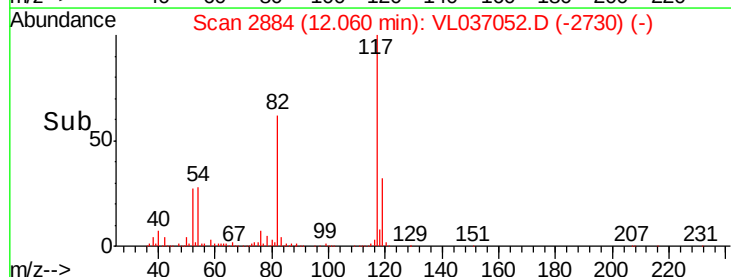
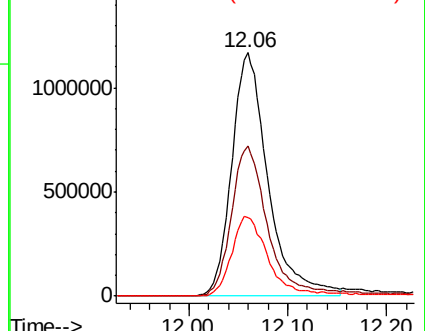
119 34.4 46.6 70.0#

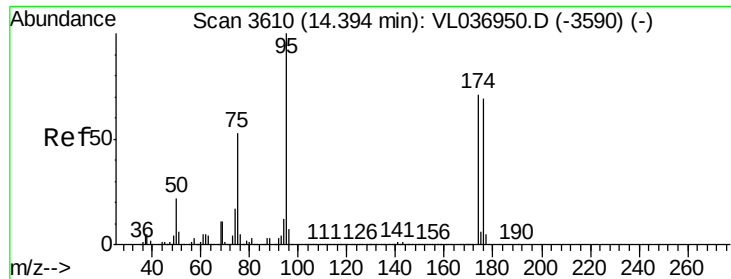


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.582 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL037052.D

Acq: 24 May 2021 17:25

Instrument :

MSVOA_L

ClientSampleId :

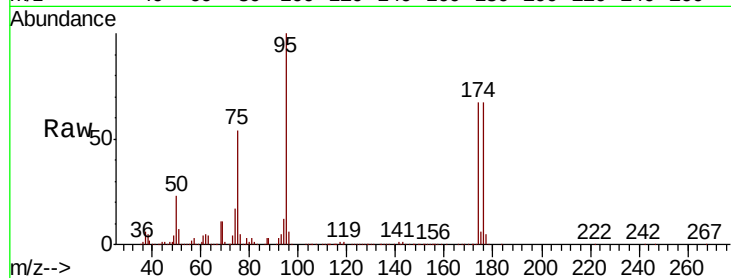
Tot Ion: 95 Resp: 2160445

Ion Ratio Lower Upper

95 100

174 76.0 58.4 87.6

175 5.6 4.4 6.6



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

