

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035990.D
 Acq On : 19 Nov 2020 2:03
 Operator : SY/AP
 Sample : L4781-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DL

Quant Time: Nov 19 08:14:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1005906	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3607452	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3473756	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	2549748	10.33	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

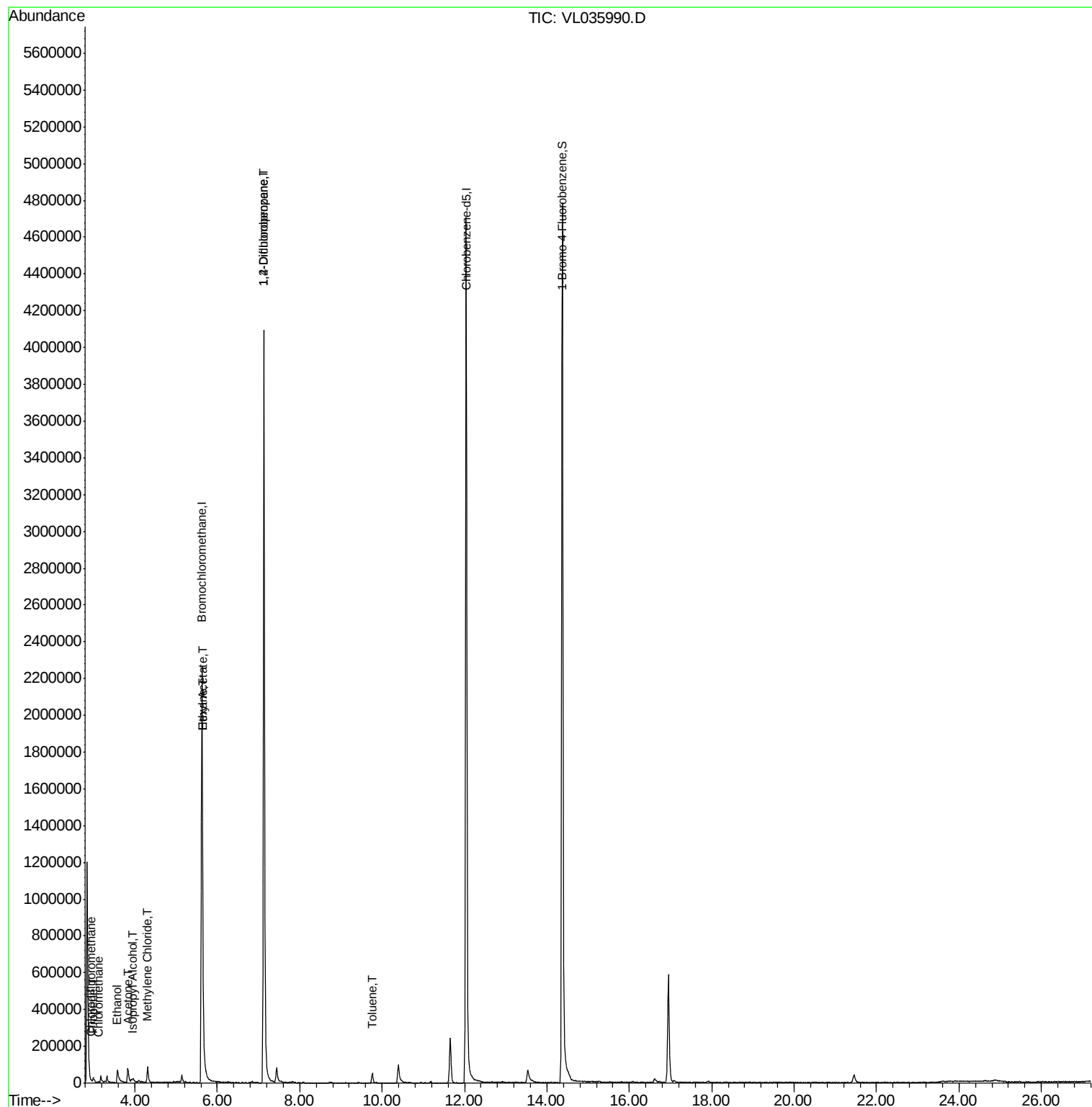
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.95	51	9078	0.075	ppbv #	84
4) Chloromethane	3.11	50	2064	0.035	ppbv #	50
9) Propene	2.99	41	9363	0.212	ppbv	84
13) Ethanol	3.57	45	82757	8.652	ppbv	92
15) Acetone	3.83	43	74097	0.689	ppbv #	74
19) Isopropyl Alcohol	3.94	45	11084	0.168	ppbv #	90
20) Methylene Chloride	4.30	84	49509	0.654	ppbv	97
25) Ethyl Acetate	5.65	43	23602	0.111	ppbv #	79
26) Hexane	5.65	57	30192	0.258	ppbv #	47
39) 1,2-Dichloropropane	7.13	63	751232	8.320	ppbv #	30
53) Toluene	9.76	91	45591	0.141	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 883

Delta R.T. -0.04 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

IA4DL

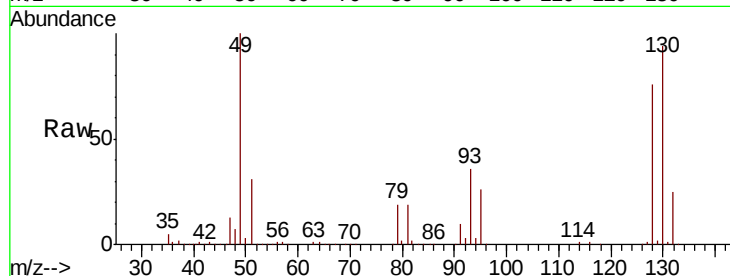
Tot Ion: 49 Resp: 1005906

Ion Ratio Lower Upper

49 100

128 80.9 41.5 124.6

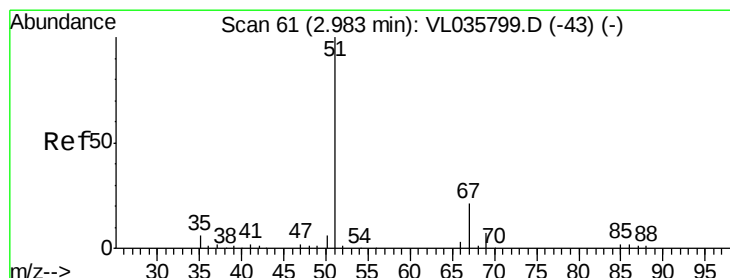
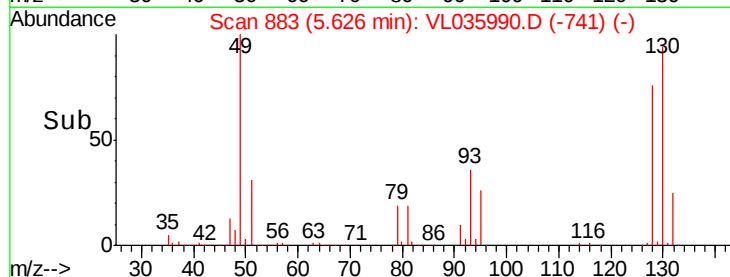
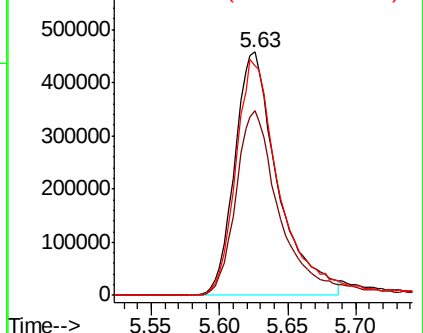
130 103.2 53.7 161.1



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



#3

Chlorodifluoromethane

Concen: 0.075 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL035990.D

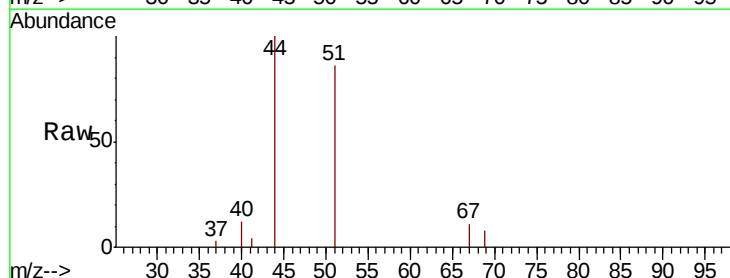
Acq: 19 Nov 2020 2:03

Tgt Ion: 51 Resp: 9078

Ion Ratio Lower Upper

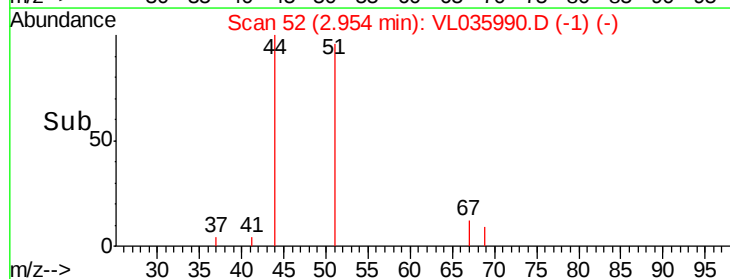
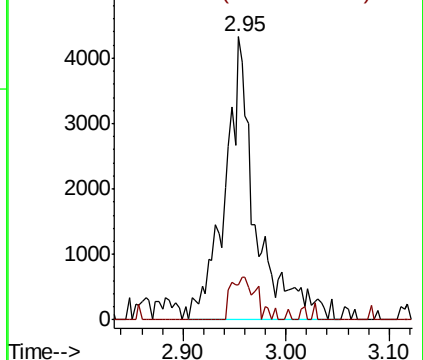
51 100

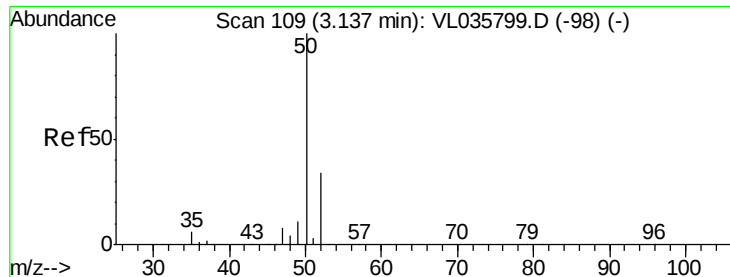
67 13.5 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.03 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

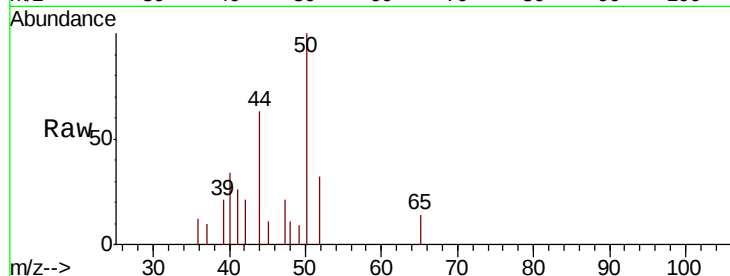
IA4DL

Tot Ion: 50 Resp: 2064

Ion Ratio Lower Upper

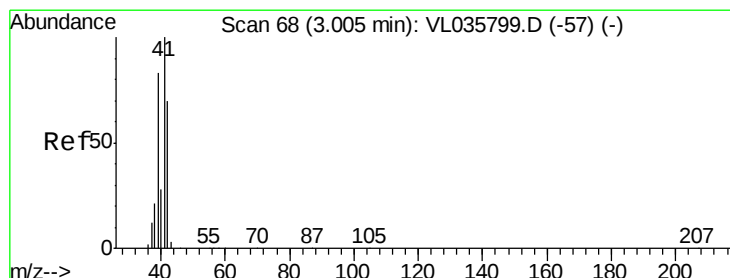
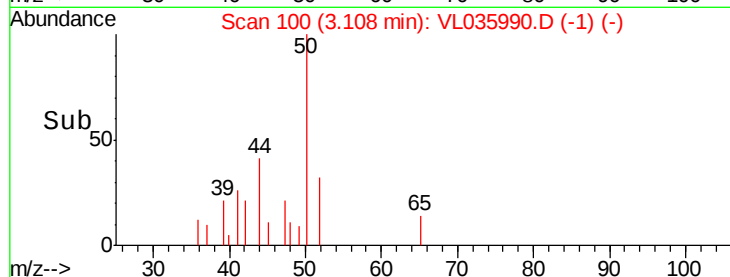
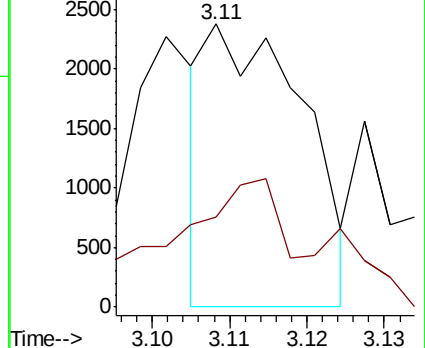
50 100

52 5.5 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.212 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035990.D

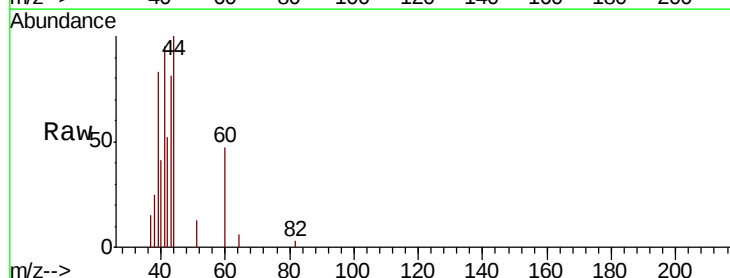
Acq: 19 Nov 2020 2:03

Tgt Ion: 41 Resp: 9363

Ion Ratio Lower Upper

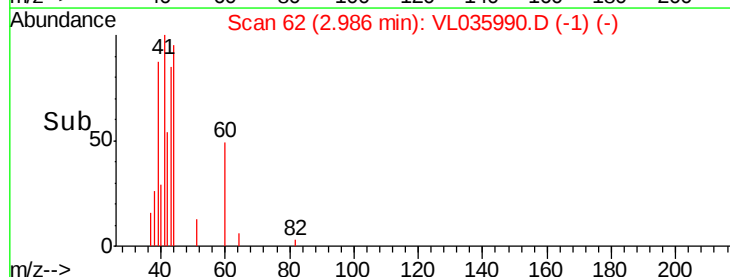
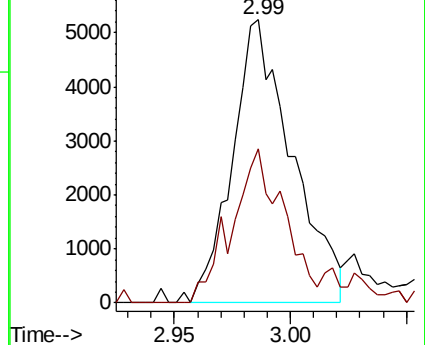
41 100

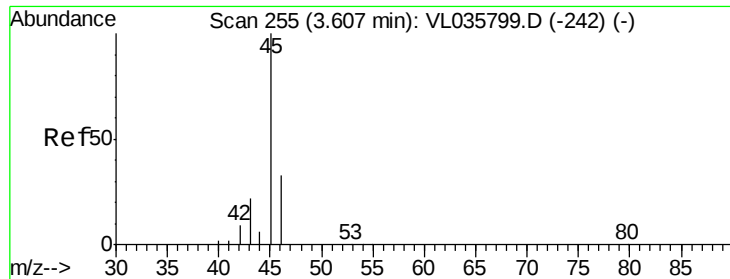
42 56.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 8.652 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.04 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

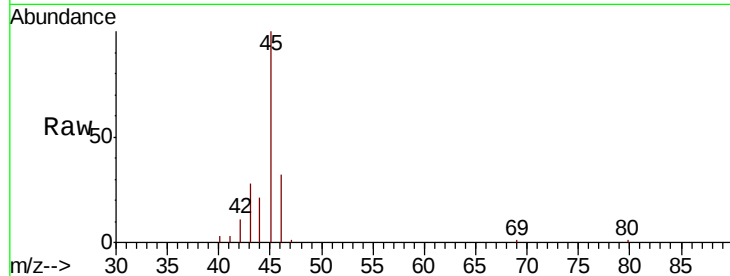
IA4DL

Tot Ion: 45 Resp: 82757

Ion Ratio Lower Upper

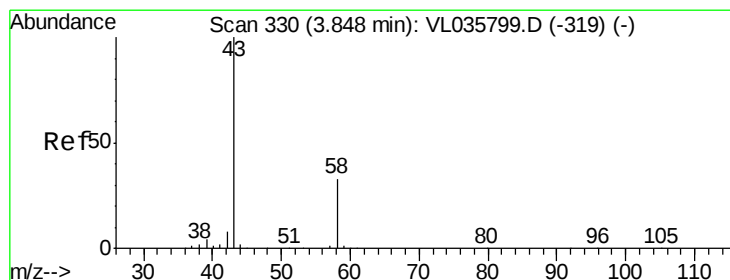
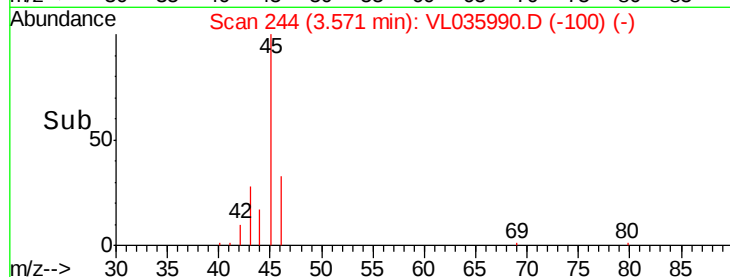
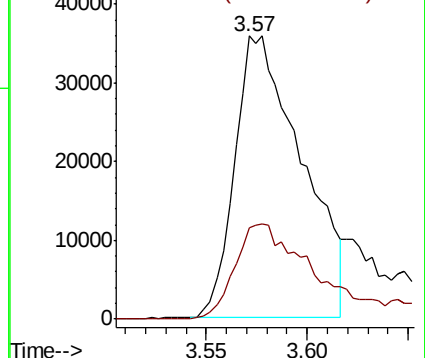
45 100

46 45.5 16.1 64.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.689 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL035990.D

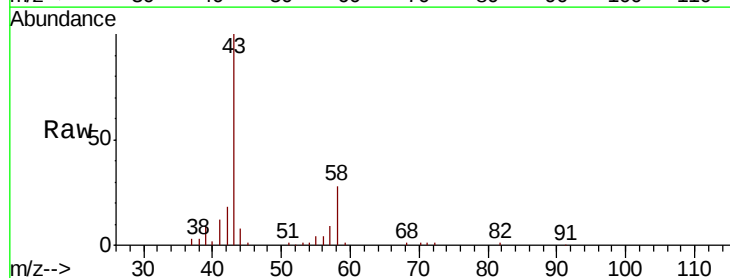
Acq: 19 Nov 2020 2:03

Tgt Ion: 43 Resp: 74097

Ion Ratio Lower Upper

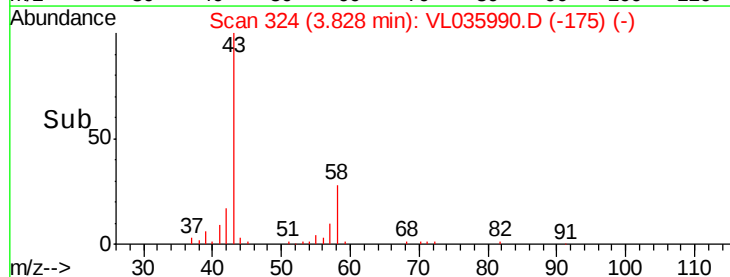
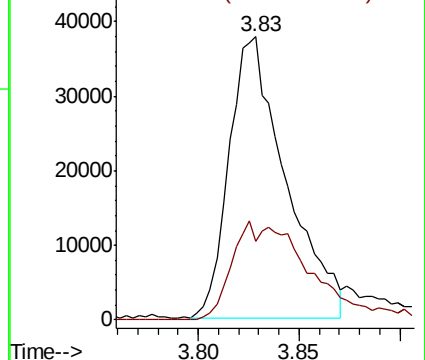
43 100

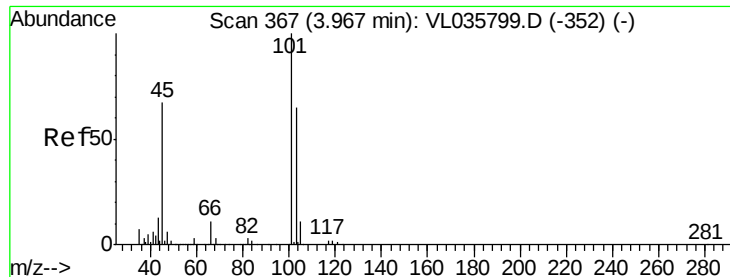
58 49.3 27.5 41.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 0.168 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.02 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

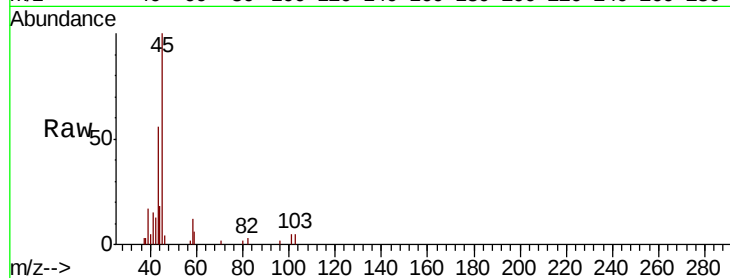
IA4DL

Tot Ion: 45 Resp: 11084

Ion Ratio Lower Upper

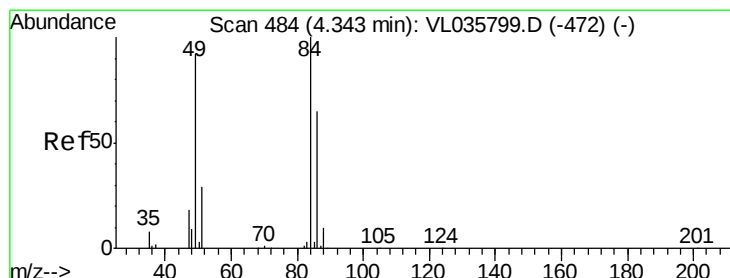
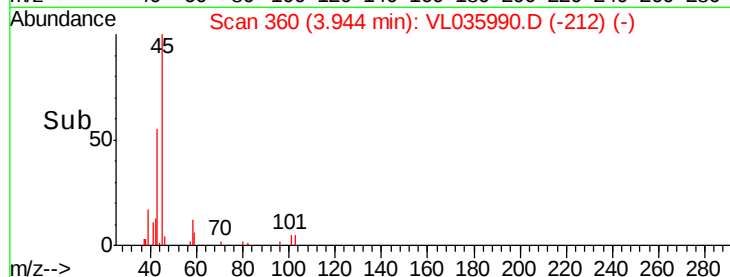
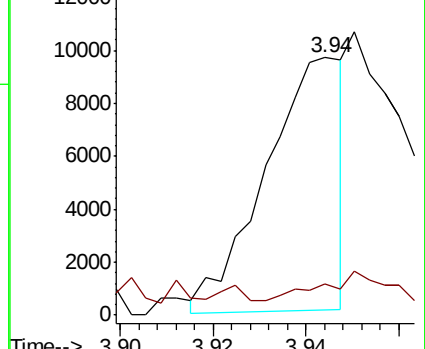
45 100

58 0.0 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.654 ppbv

RT: 4.30 min Scan# 472

Delta R.T. -0.04 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Tgt Ion: 84 Resp: 49509

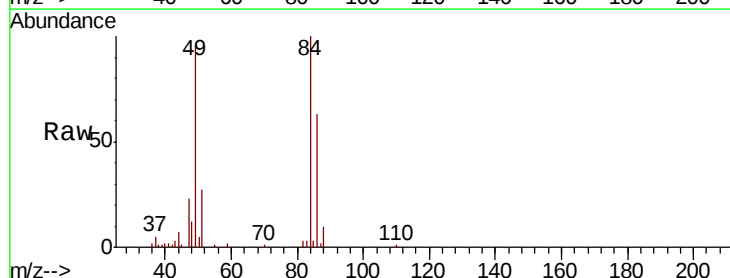
Ion Ratio Lower Upper

84 100

49 94.6 73.8 110.8

51 26.4 23.0 34.4

86 63.0 52.1 78.1

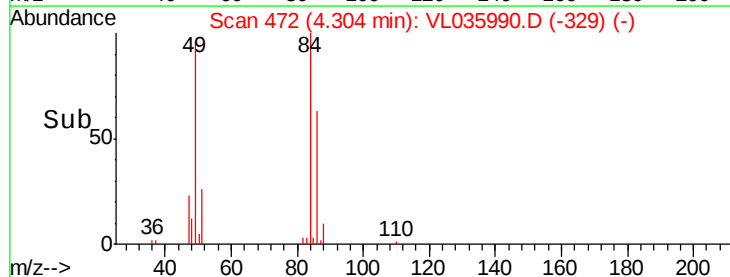
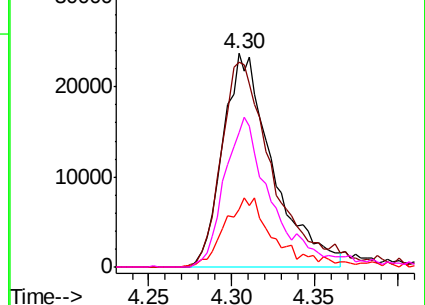


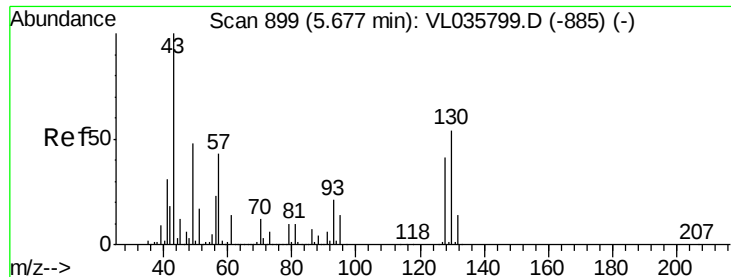
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

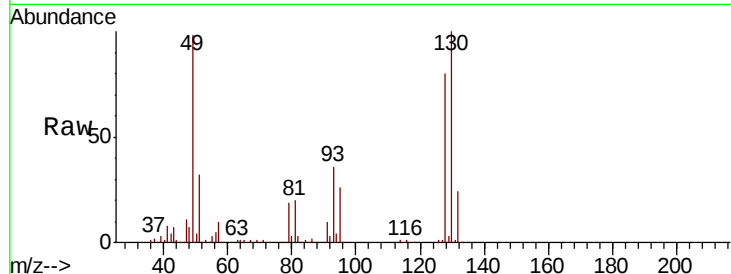




#25
Ethyl Acetate
Concen: 0.111 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.03 min
Lab File: VL035990.D
Acq: 19 Nov 2020 2:03

Instrument :
MSVOA_L
ClientSampleId :
IA4DL

Tot Ion:	43	Resp:	23602
Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.5	12.7#
61	2.7	10.7	16.1#
70	4.7	8.6	12.8#



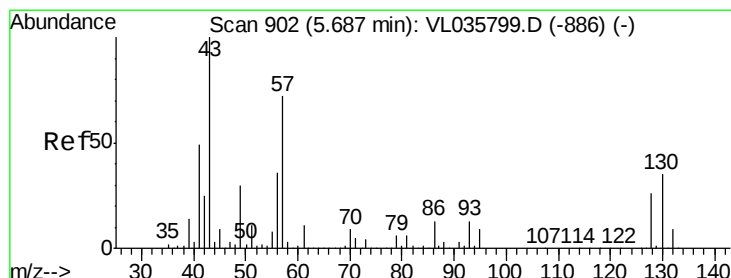
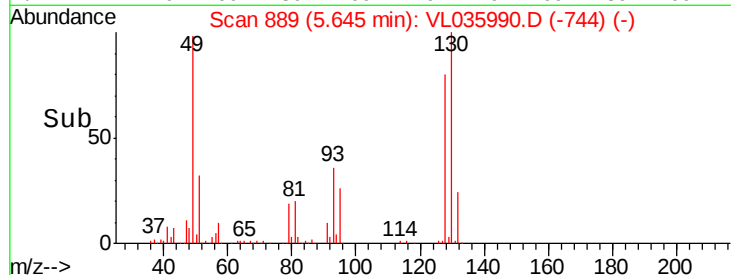
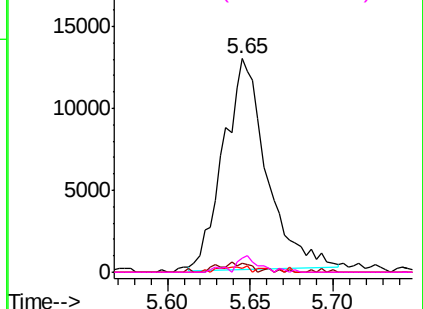
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

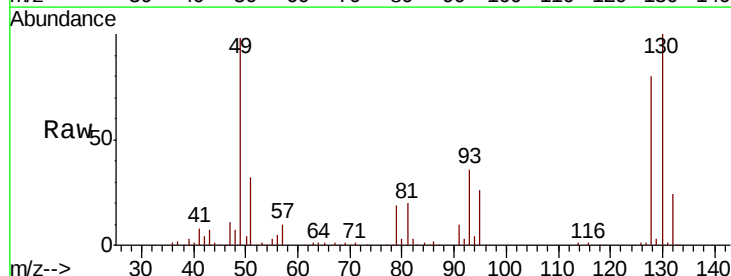
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.258 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.04 min
Lab File: VL035990.D
Acq: 19 Nov 2020 2:03

Tgt Ion:	57	Resp:	30192
Ion	Ratio	Lower	Upper
57	100		
41	100.6	58.9	88.3#
43	84.3	150.2	225.2#
56	65.8	42.4	63.6#



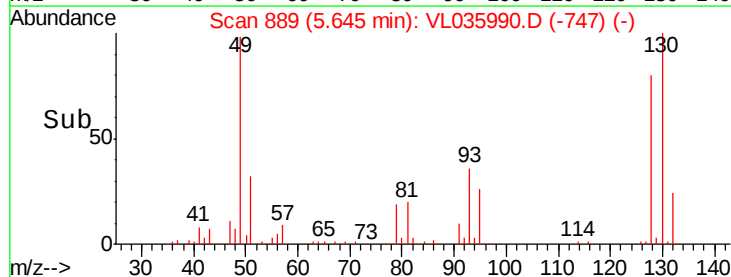
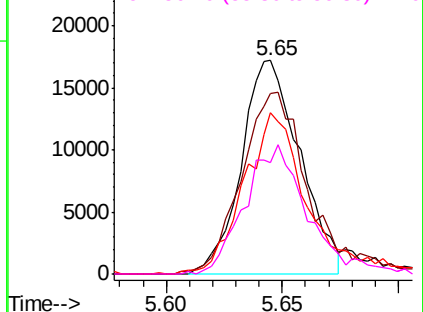
Abundance

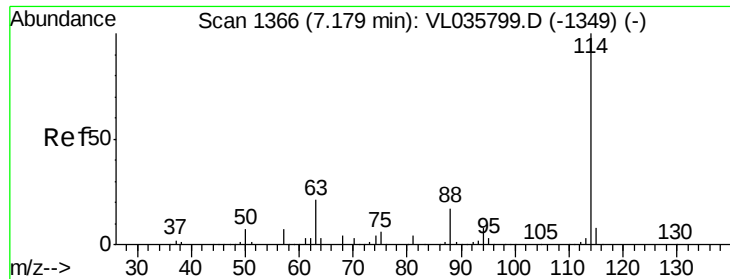
Ion 57.10 (56.80 to 57.80): VL0

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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.05 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

IA4DL

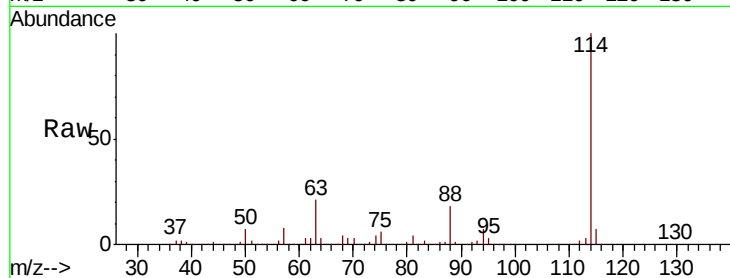
Tot Ion:114 Resp: 3607452

Ion Ratio Lower Upper

114 100

63 21.2 16.1 24.1

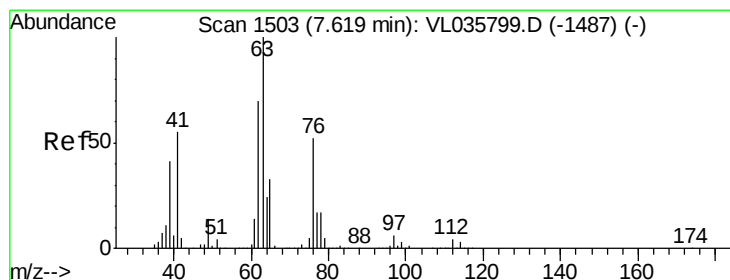
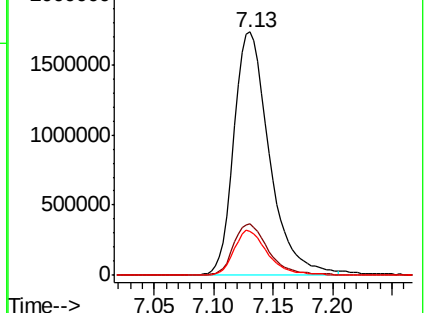
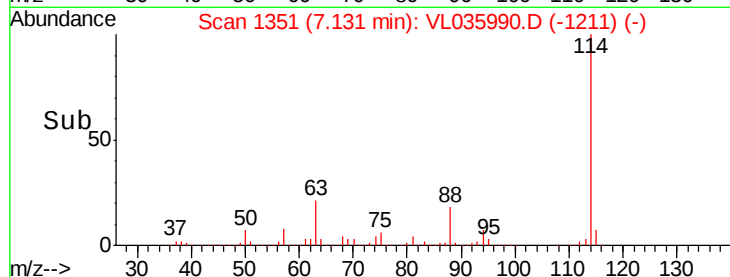
88 17.7 13.7 20.5



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: 8.320 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.49 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

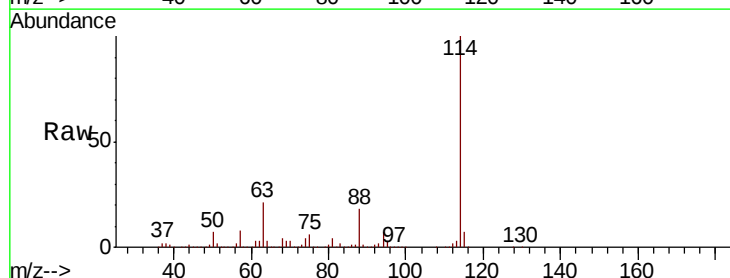
Tgt Ion: 63 Resp: 751232

Ion Ratio Lower Upper

63 100

41 0.0 43.8 65.6#

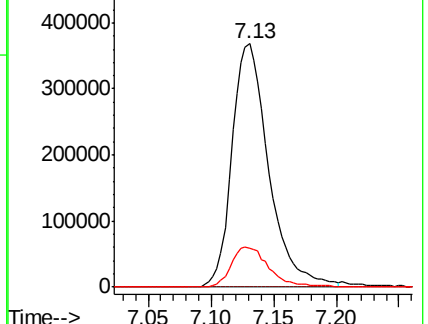
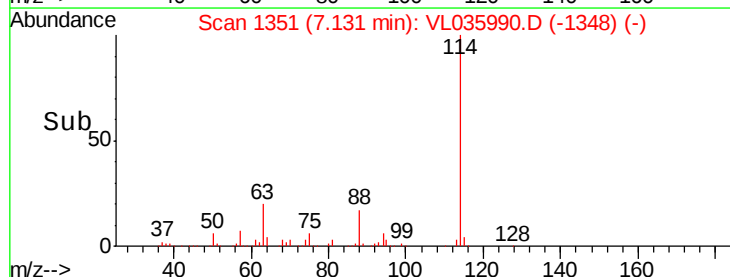
62 16.1 56.2 84.2#

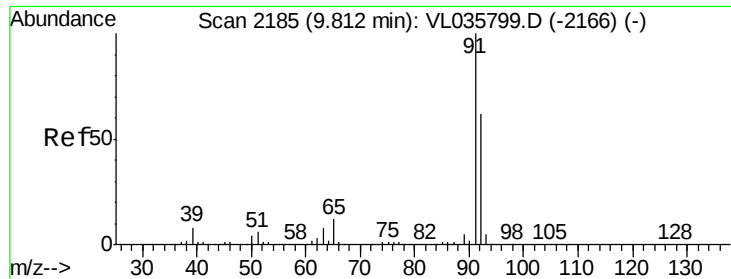


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.141 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.05 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

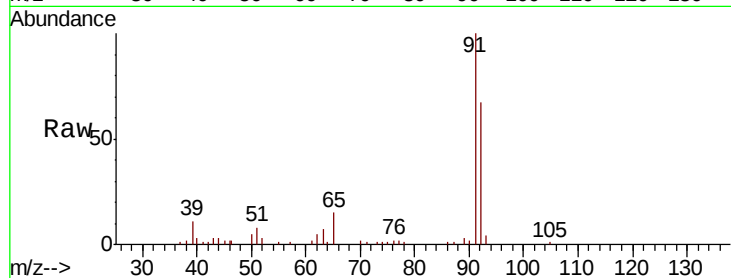
IA4DL

Tot Ion: 91 Resp: 45591

Ion Ratio Lower Upper

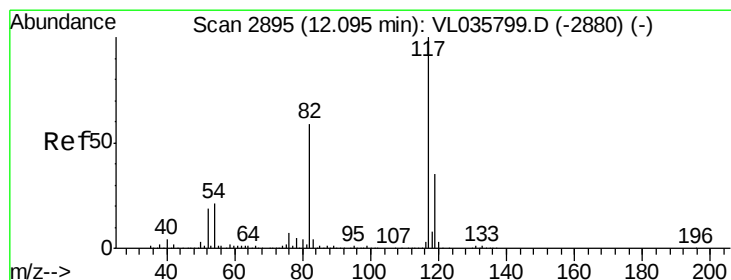
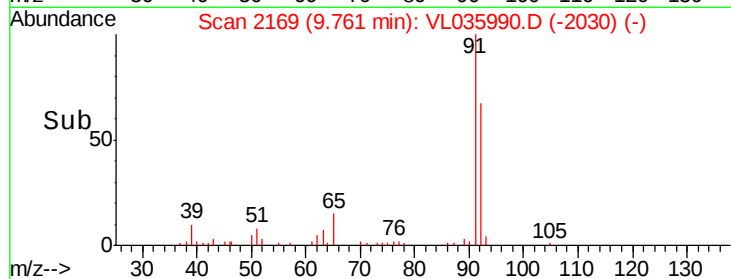
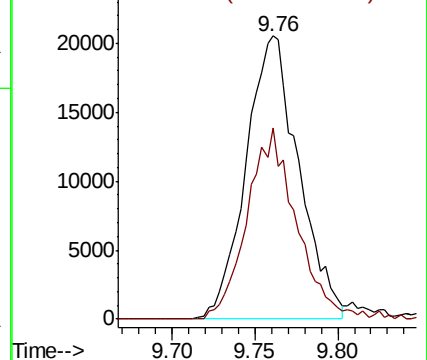
91 100

92 63.0 49.8 74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2878

Delta R.T. -0.05 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

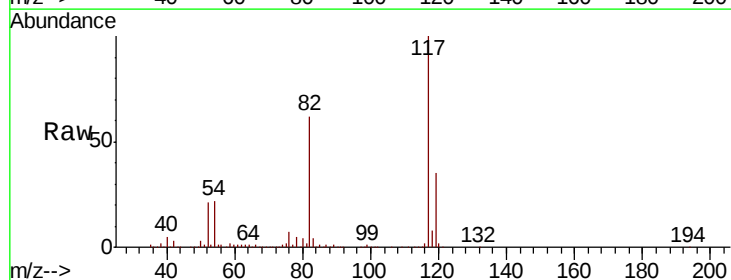
Tgt Ion: 117 Resp: 3473756

Ion Ratio Lower Upper

117 100

82 62.0 50.6 76.0

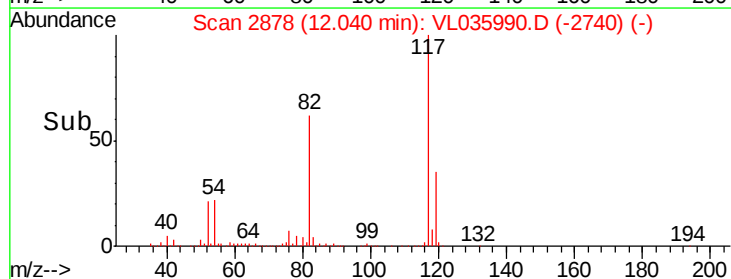
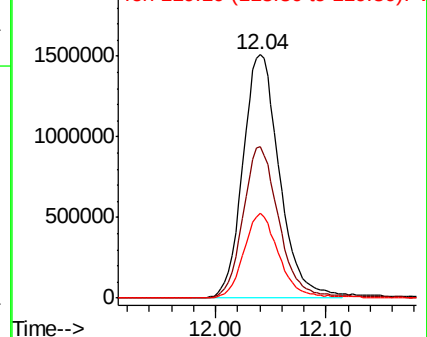
119 34.2 52.6 78.8#

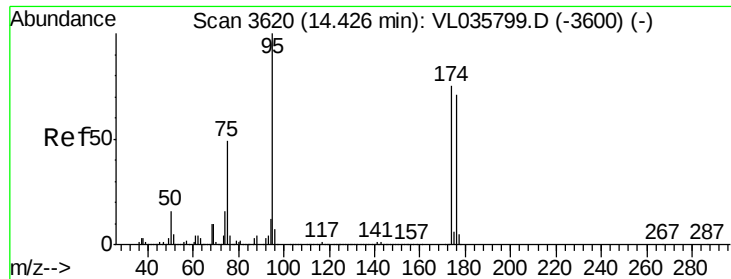


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.331 ppbv

RT: 14.37 min Scan# 3603

Delta R.T. -0.05 min

Lab File: VL035990.D

Acq: 19 Nov 2020 2:03

Instrument :

MSVOA_L

ClientSampleId :

IA4DL

Tot Ion: 95 Resp: 2549748

Ion Ratio Lower Upper

95 100

174 71.1 59.8 89.6

175 5.0 4.3 6.5

