

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035561.D
 Acq On : 8 Sep 2020 18:11
 Operator : SY/AP
 Sample : L3898-02DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Sep 09 02:37:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1211632	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	5003851	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	5059142	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3732682	10.39	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

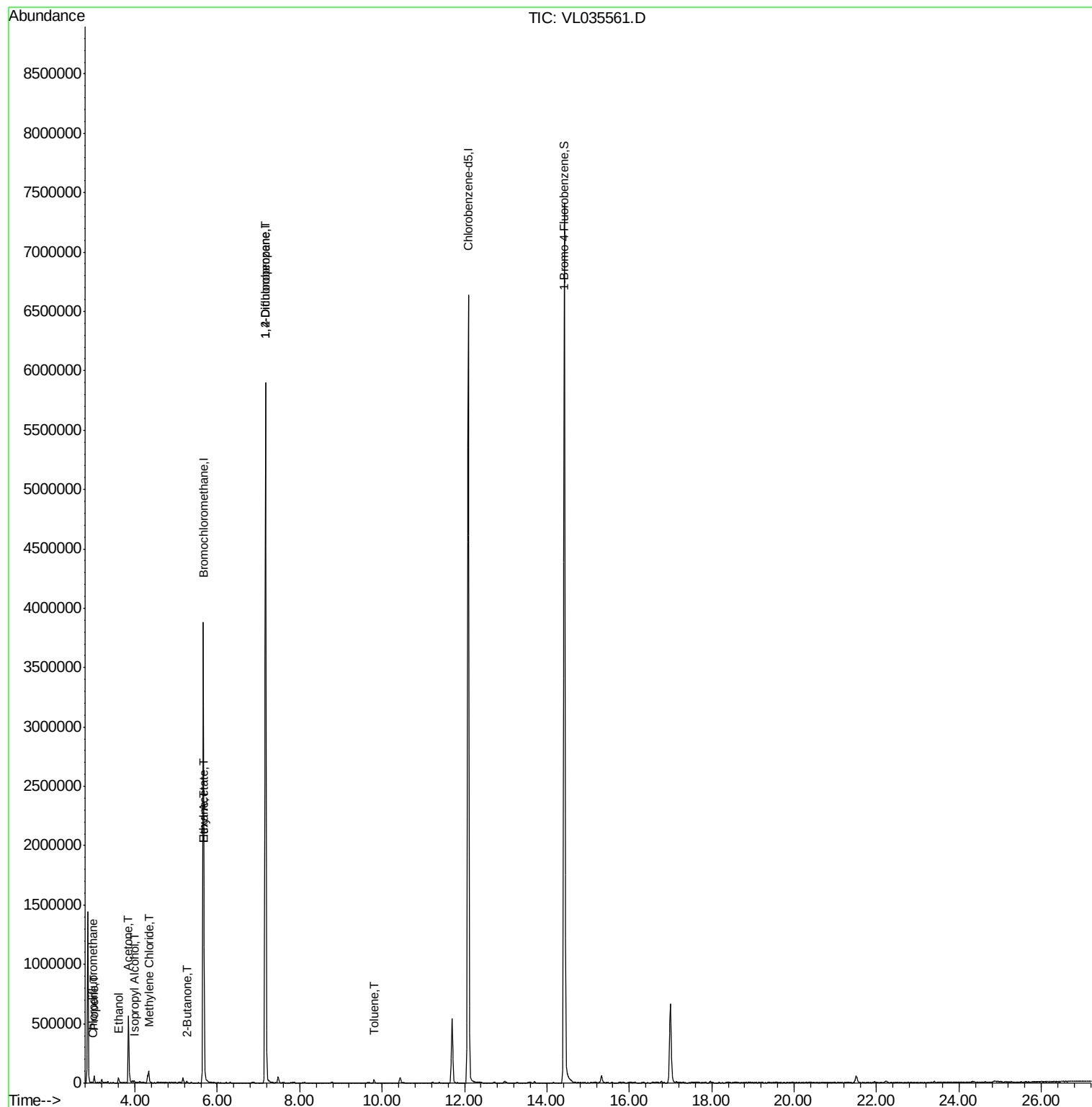
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	4194	0.031	ppbv #	69
9) Propene	3.01	41	14554	0.282	ppbv #	69
13) Ethanol	3.60	45	40626	3.172	ppbv	99
15) Acetone	3.84	43	534818	4.002	ppbv	99
19) Isopropyl Alcohol	3.98	45	14429	0.181	ppbv #	93
20) Methylene Chloride	4.33	84	39610	0.398	ppbv	94
25) Ethyl Acetate	5.68	43	8878	0.038	ppbv #	90
26) Hexane	5.68	57	10436	0.078	ppbv #	70
34) 2-Butanone	5.25	43	6973	0.047	ppbv #	40
39) 1,2-Dichloropropane	7.17	63	928021	8.481	ppbv #	32
53) Toluene	9.80	91	12668	0.031	ppbv #	39

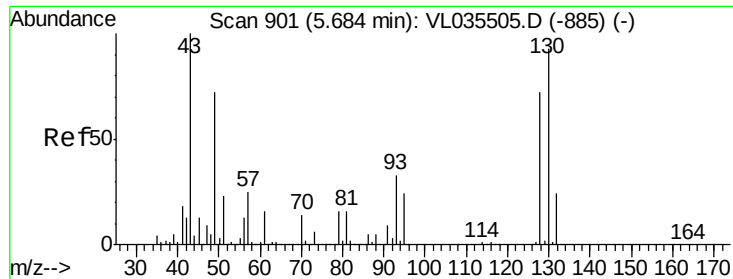
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
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QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

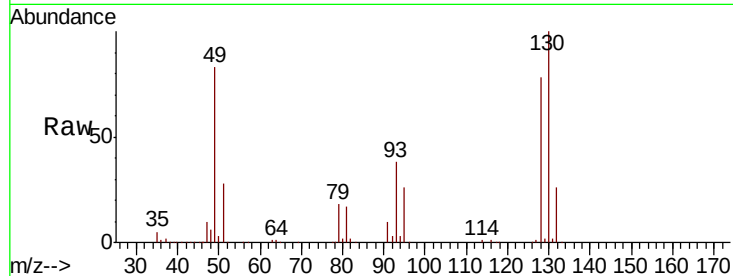
Tot Ion: 49 Resp: 1211632

Ion Ratio Lower Upper

49 100

128 95.9 50.0 150.1

130 122.1 64.4 193.2



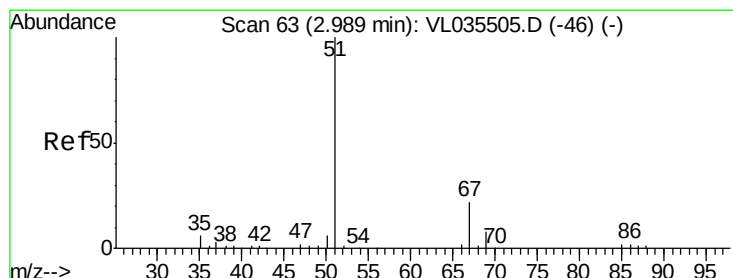
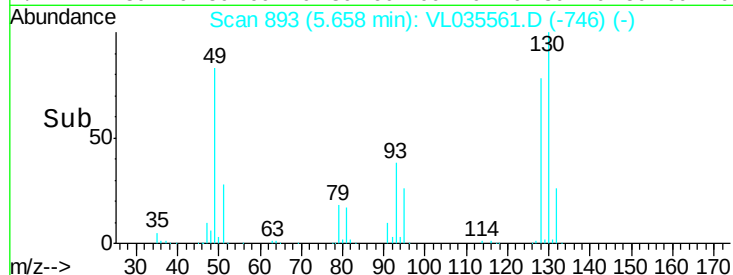
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#3

Chlorodifluoromethane

Concen: 0.031 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035561.D

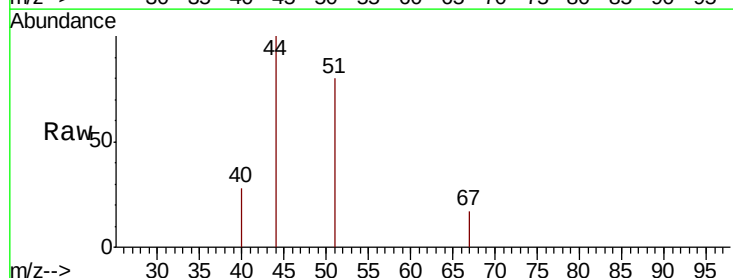
Acq: 8 Sep 2020 18:11

Tgt Ion: 51 Resp: 4194

Ion Ratio Lower Upper

51 100

67 7.5 17.8 26.8#

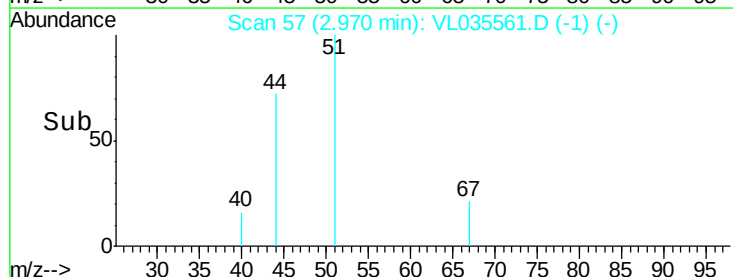


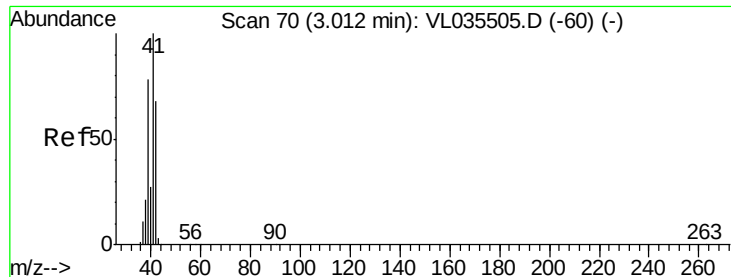
Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

Time-->





#9

Propene

Concen: 0.282 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

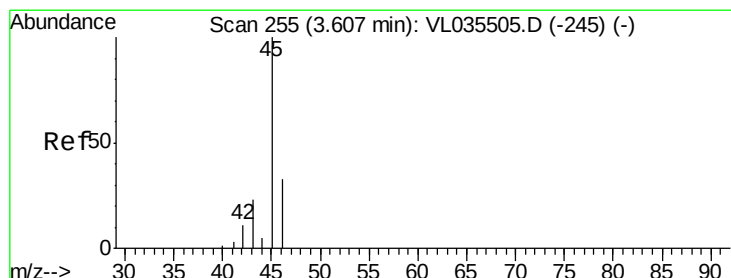
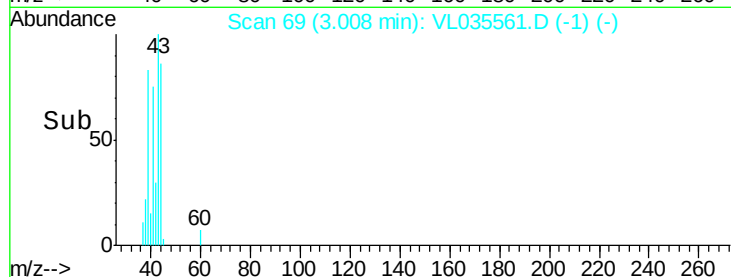
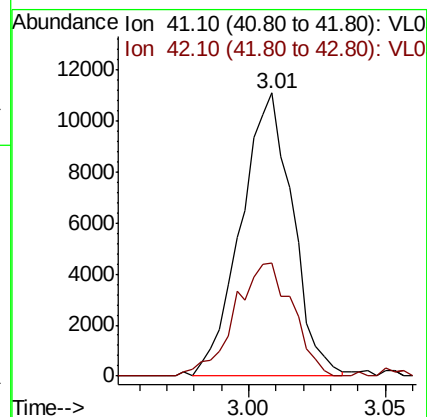
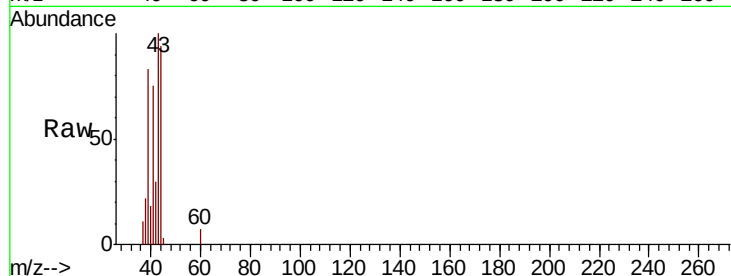
IA-2DL

Tot Ion: 41 Resp: 14554

Ion Ratio Lower Upper

41 100

42 44.8 56.3 84.5#



#13

Ethanol

Concen: 3.172 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL035561.D

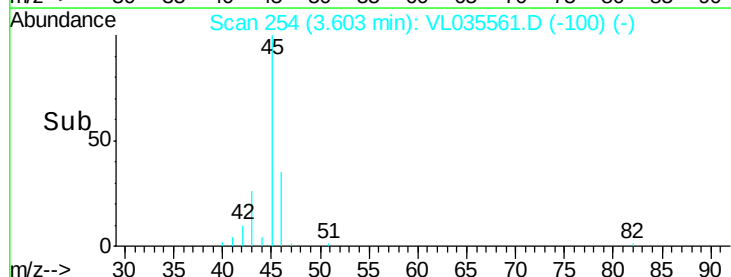
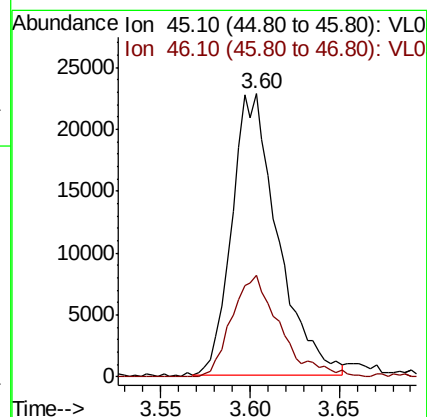
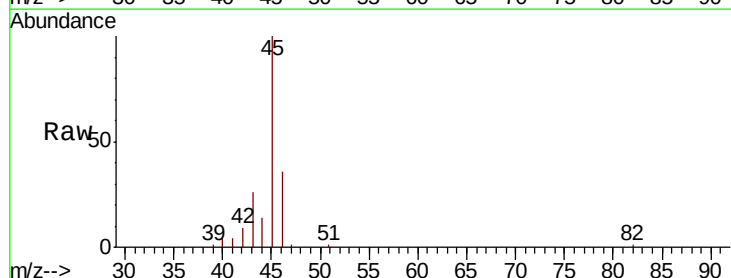
Acq: 8 Sep 2020 18:11

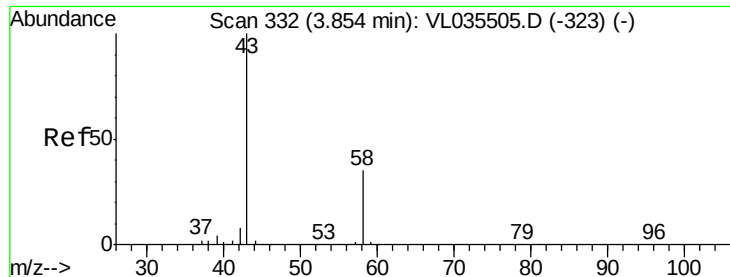
Tgt Ion: 45 Resp: 40626

Ion Ratio Lower Upper

45 100

46 38.4 15.2 60.6





#15

Acetone

Concen: 4.002 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

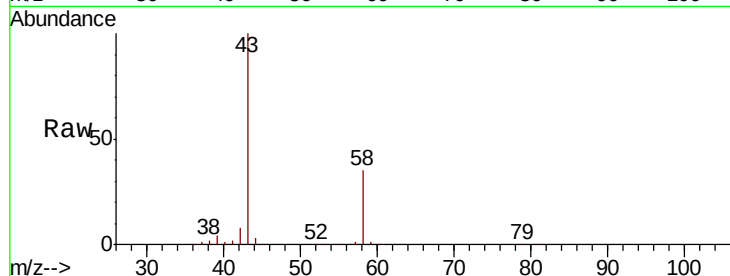
IA-2DL

Tot Ion: 43 Resp: 534818

Ion Ratio Lower Upper

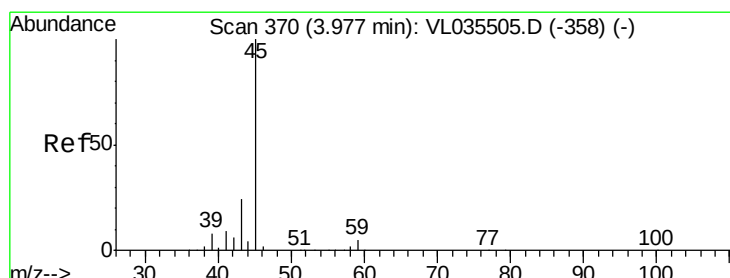
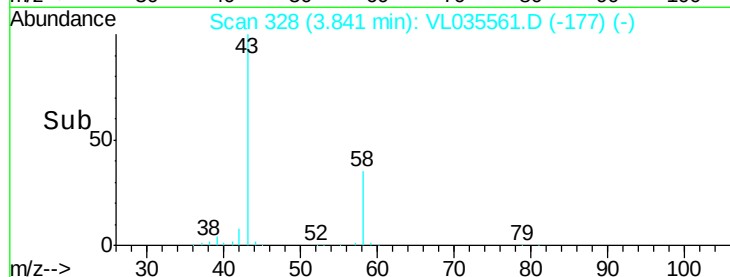
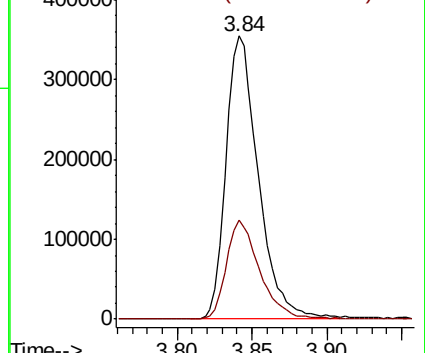
43 100

58 36.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.181 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL035561.D

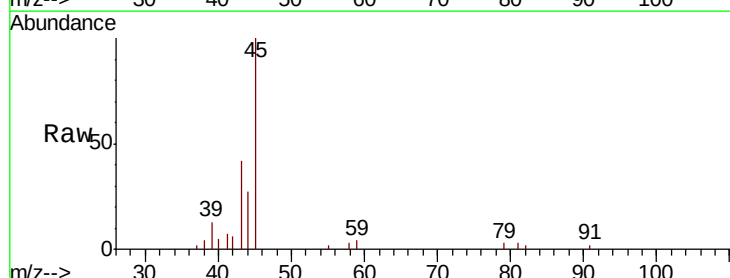
Acq: 8 Sep 2020 18:11

Tgt Ion: 45 Resp: 14429

Ion Ratio Lower Upper

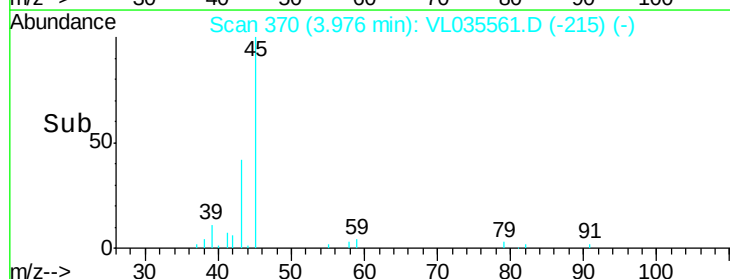
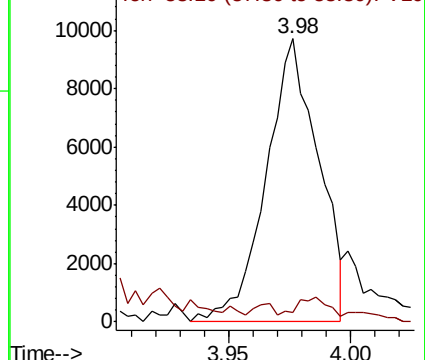
45 100

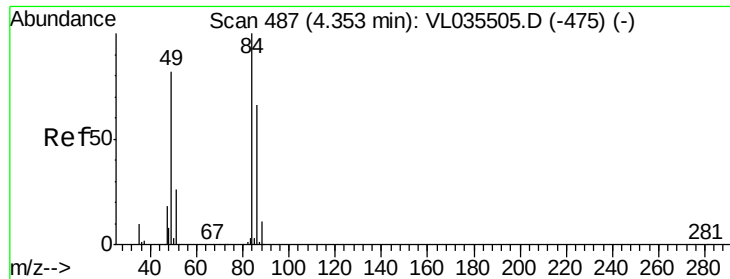
58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

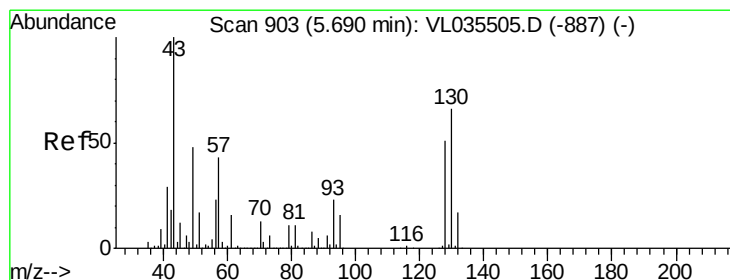
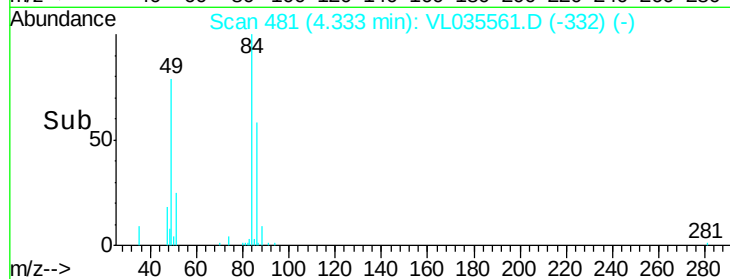
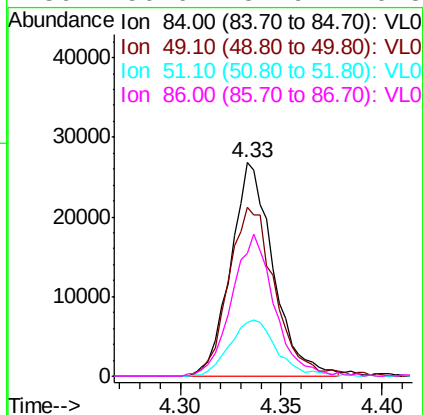
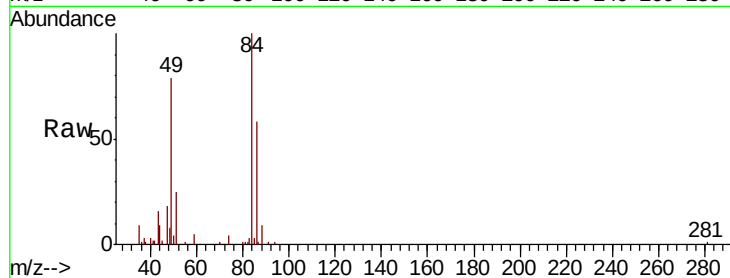




#20
Methylene Chloride
Concen: 0.398 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL035561.D
Acq: 8 Sep 2020 18:11

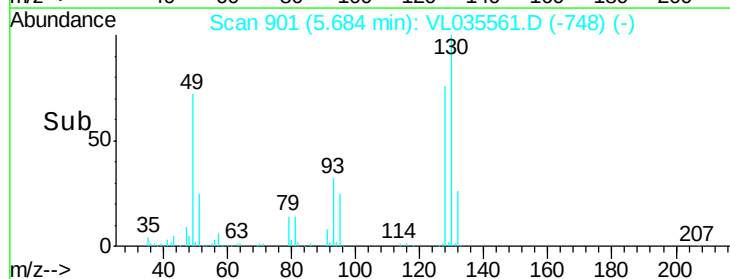
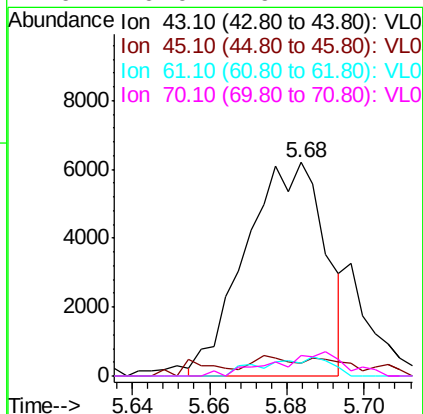
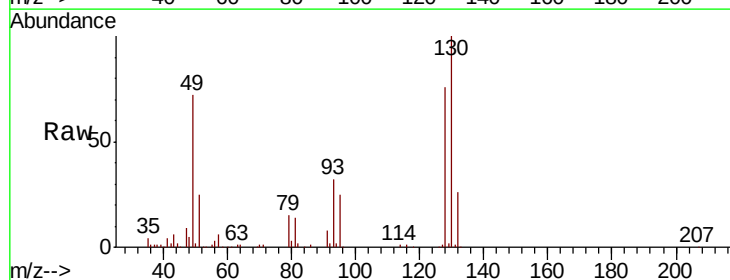
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

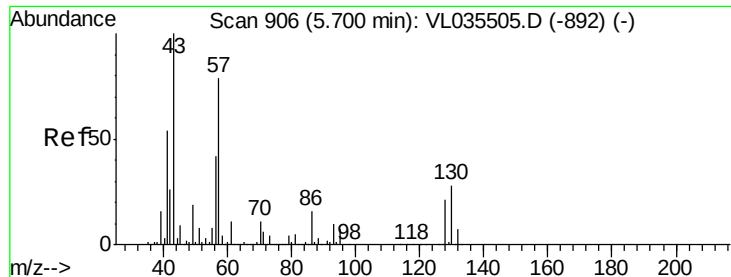
Tot Ion:	84	Resp:	39610
Ion	Ratio	Lower	Upper
84	100		
49	78.9	65.4	98.0
51	25.3	21.5	32.3
86	56.6	52.9	79.3



#25
Ethyl Acetate
Concen: 0.038 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL035561.D
Acq: 8 Sep 2020 18:11

Tgt Ion:	43	Resp:	8878
Ion	Ratio	Lower	Upper
43	100		
45	14.5	8.4	12.6#
61	7.4	10.6	16.0#
70	10.0	9.4	14.2

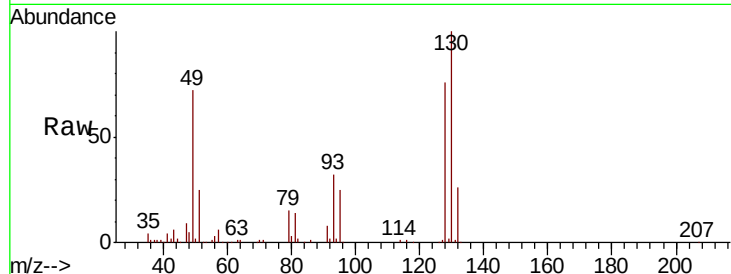




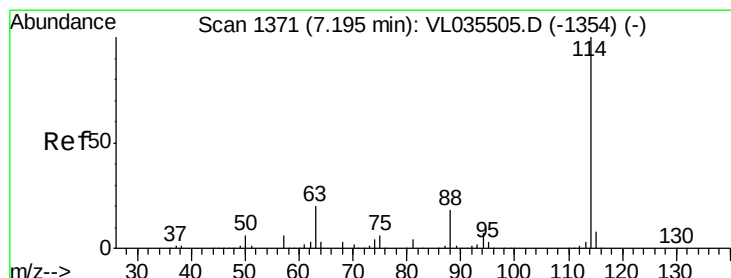
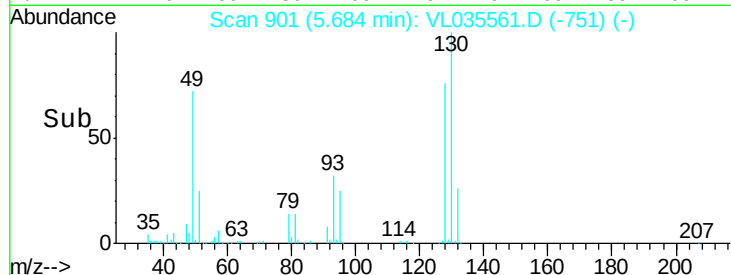
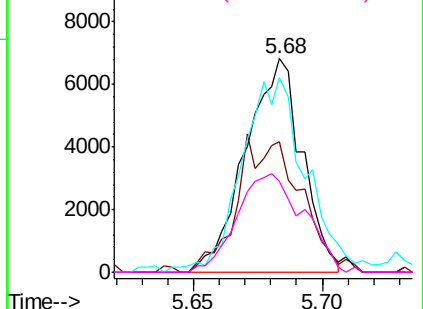
#26
Hexane
Concen: 0.078 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035561.D
Acq: 8 Sep 2020 18:11

Instrument :
MSVOA_L
ClientSampleID :
IA-2DL

Tot Ion: 57 Resp: 10436
Ion Ratio Lower Upper
57 100
41 71.6 55.9 83.9
43 107.3 141.8 212.8#
56 54.4 41.8 62.8

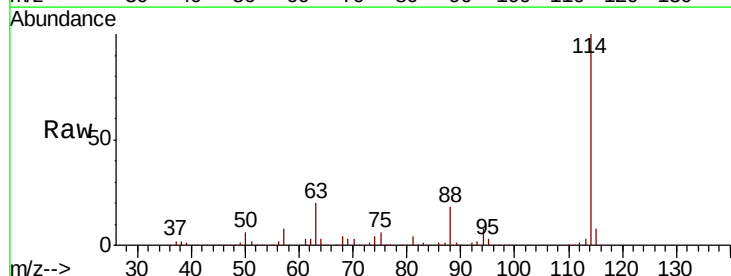


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

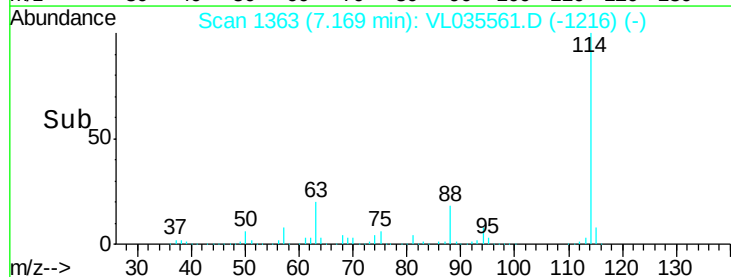
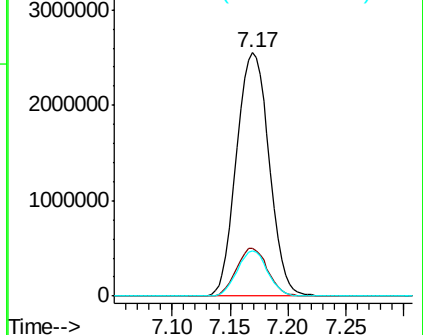


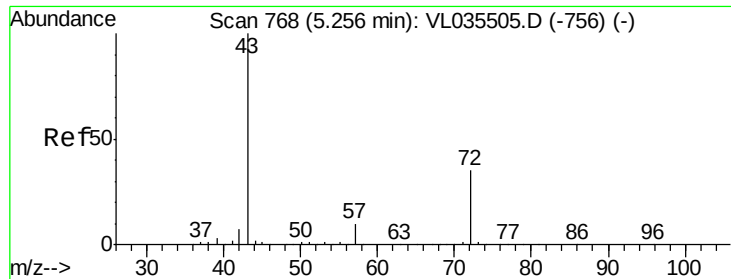
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.03 min
Lab File: VL035561.D
Acq: 8 Sep 2020 18:11

Tgt Ion: 114 Resp: 5003851
Ion Ratio Lower Upper
114 100
63 18.7 14.7 22.1
88 17.3 13.4 20.2



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: 0.047 ppbv

RT: 5.25 min Scan# 766

Delta R.T. -0.01 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

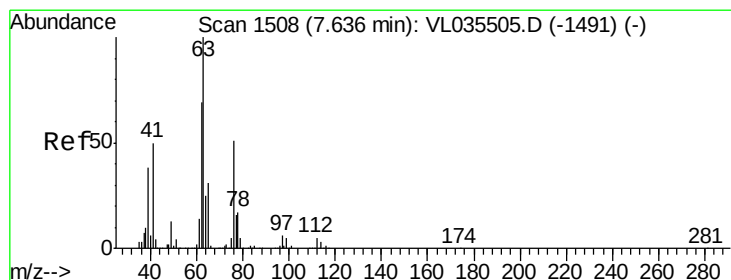
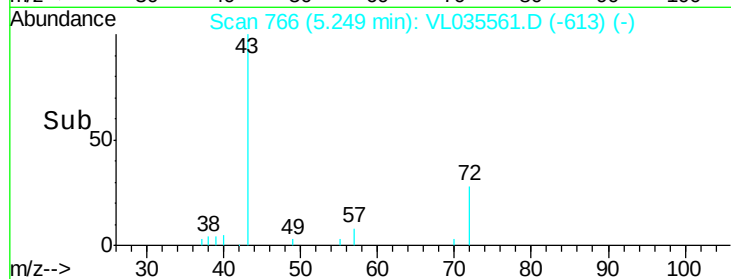
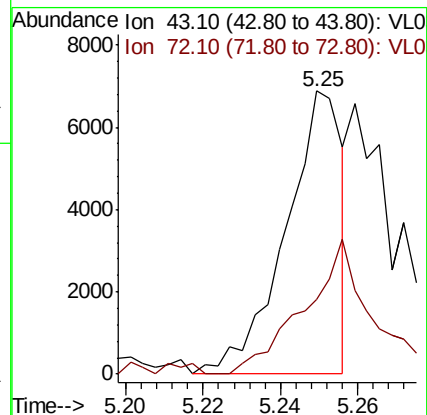
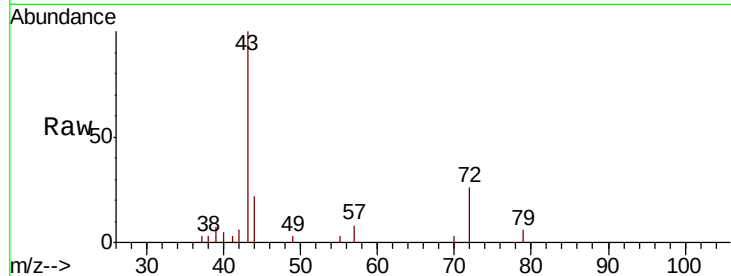
IA-2DL

Tot Ion: 43 Resp: 6973

Ion Ratio Lower Upper

43 100

72 0.0 27.7 41.5#



#39

1,2-Dichloropropane

Concen: 8.481 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.47 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

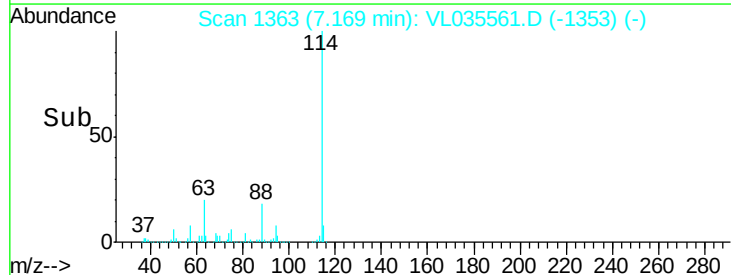
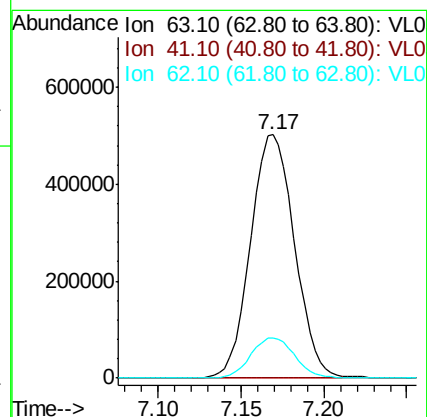
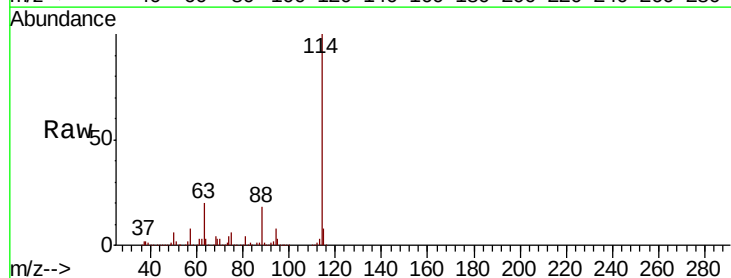
Tgt Ion: 63 Resp: 928021

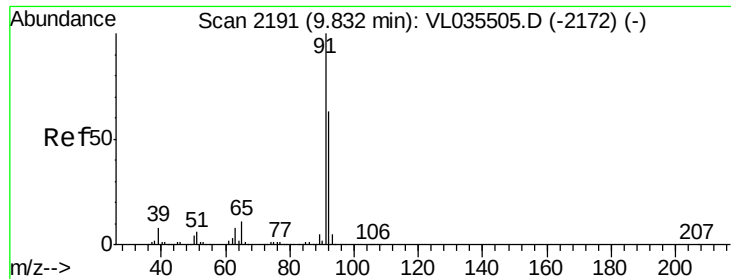
Ion Ratio Lower Upper

63 100

41 0.1 40.0 60.0#

62 16.5 55.4 83.0#





#53

Toluene

Concen: 0.031 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.03 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampled :

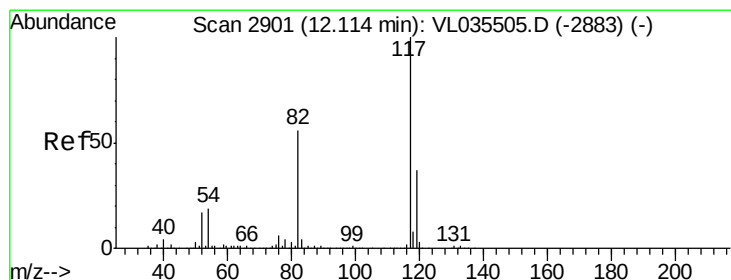
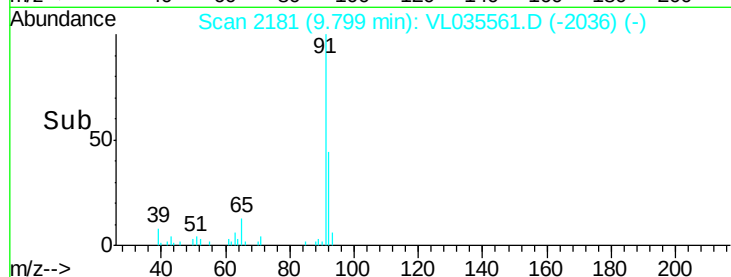
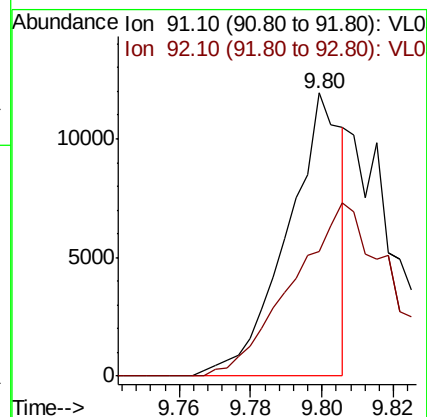
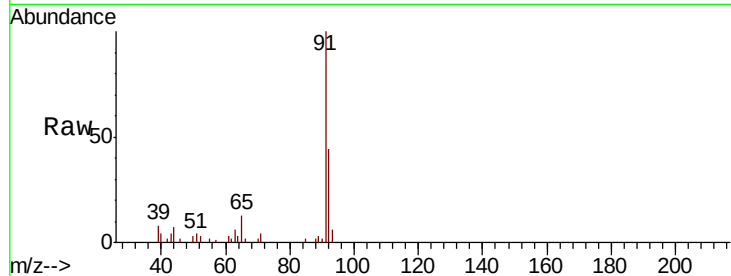
IA-2DL

Tot Ion: 91 Resp: 12668

Ion Ratio Lower Upper

91 100

92 109.0 49.8 74.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.03 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

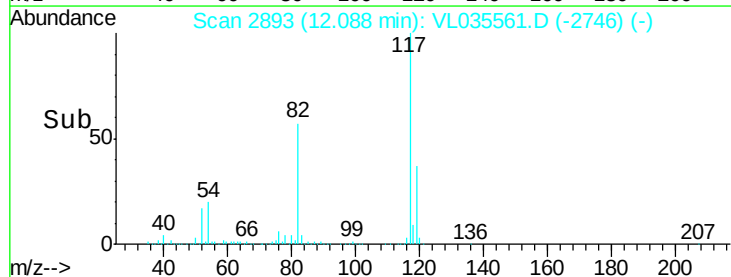
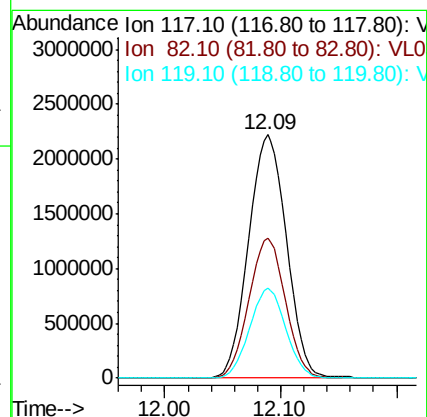
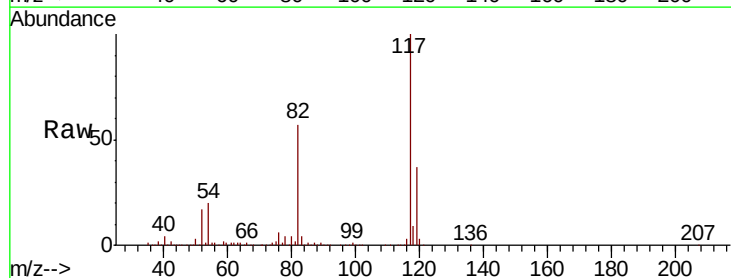
Tgt Ion: 117 Resp: 5059142

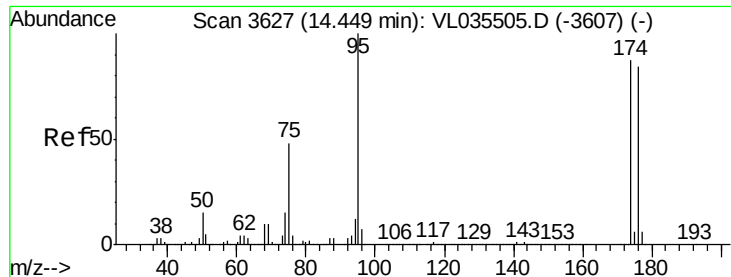
Ion Ratio Lower Upper

117 100

82 55.7 41.6 62.4

119 35.5 29.3 43.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.390 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.03 min

Lab File: VL035561.D

Acq: 8 Sep 2020 18:11

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

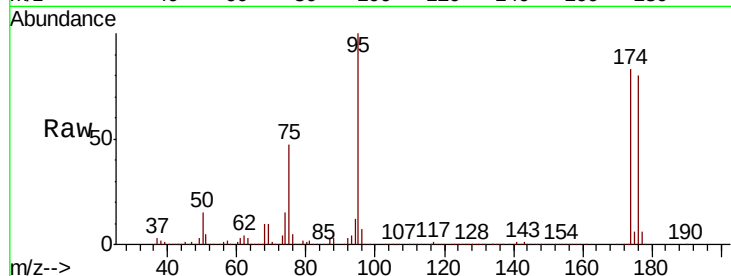
Tot Ion: 95 Resp: 3732682

Ion Ratio Lower Upper

95 100

174 84.8 69.6 104.4

175 6.2 5.1 7.7



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

