

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035563.D
 Acq On : 8 Sep 2020 19:33
 Operator : SY/AP
 Sample : L3898-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

Quant Time: Sep 09 02:37:57 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	1147008	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4730402	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4843830	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3560278	10.35	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

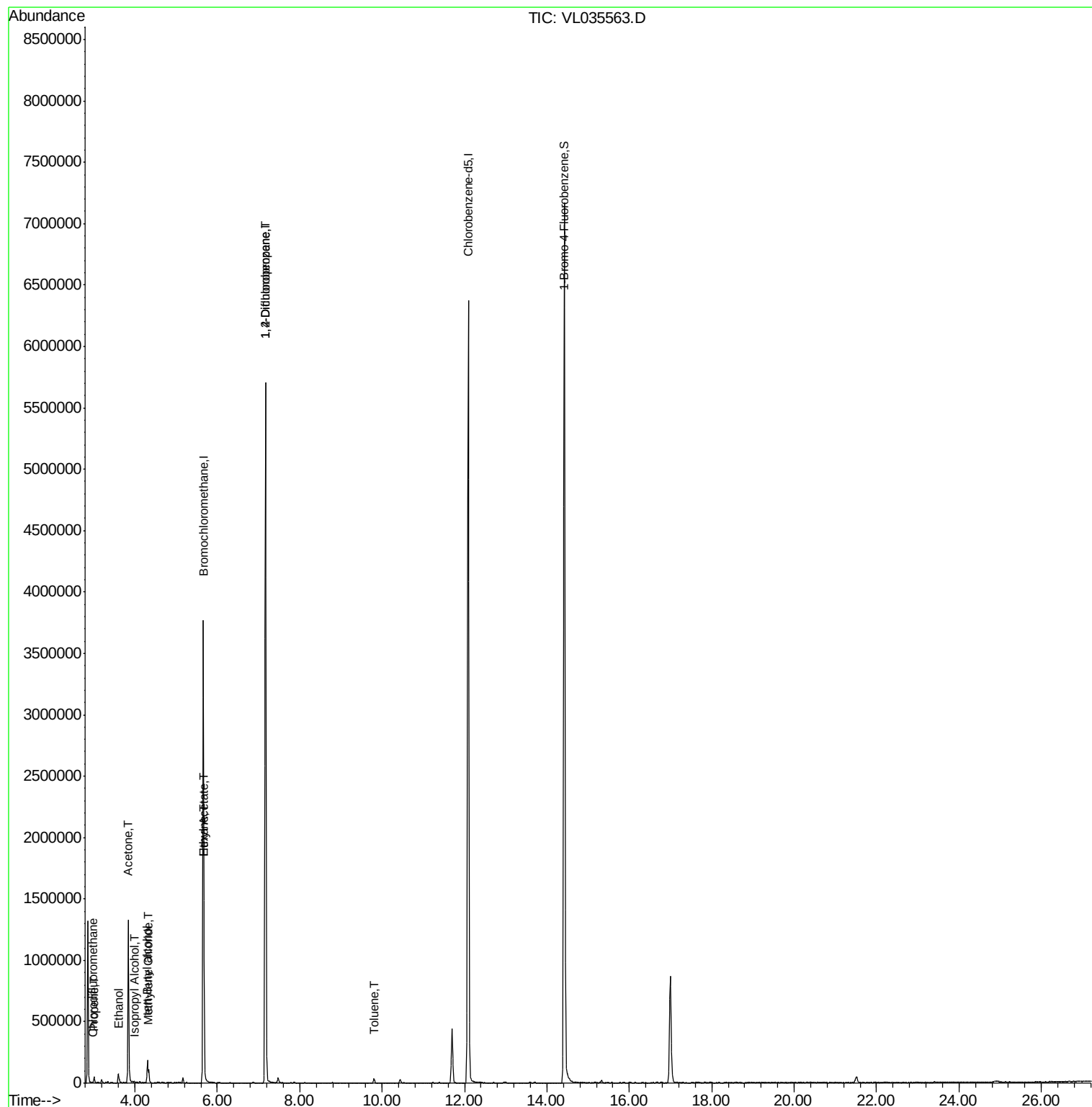
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	3833	0.030	ppbv #	70
9) Propene	3.01	41	12161	0.249	ppbv #	79
13) Ethanol	3.59	45	77849	6.420	ppbv	95
15) Acetone	3.83	43	1267119	10.016	ppbv	100
17) tert-Butyl alcohol	4.30	59	21770	0.141	ppbv #	72
19) Isopropyl Alcohol	3.98	45	6096	0.081	ppbv #	93
20) Methylene Chloride	4.33	84	45964	0.488	ppbv	97
25) Ethyl Acetate	5.68	43	8614	0.039	ppbv #	84
26) Hexane	5.68	57	11989	0.095	ppbv #	54
39) 1,2-Dichloropropane	7.17	63	880734	8.514	ppbv #	32
53) Toluene	9.80	91	29790	0.077	ppbv	95

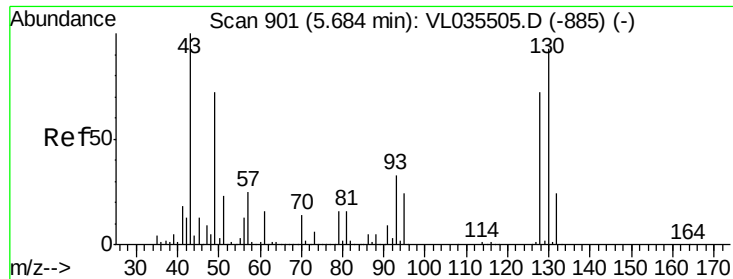
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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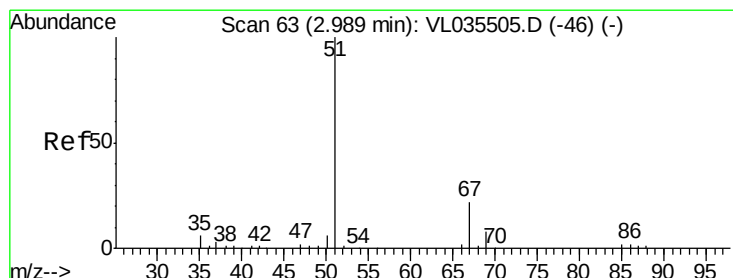
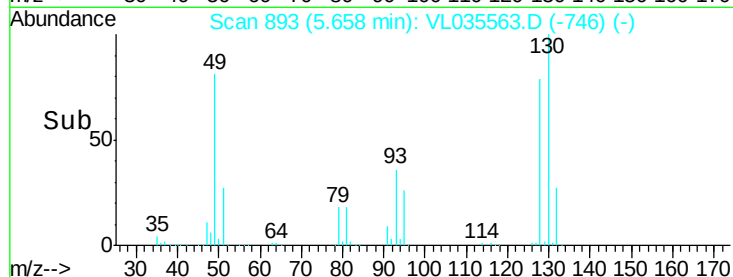
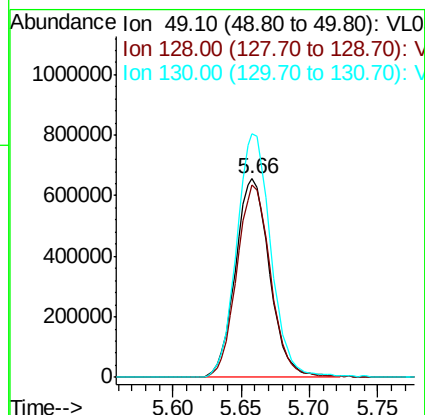
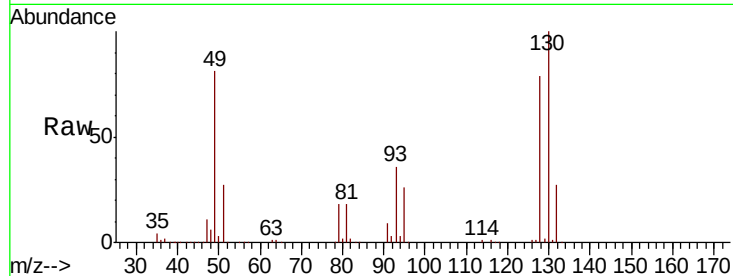




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

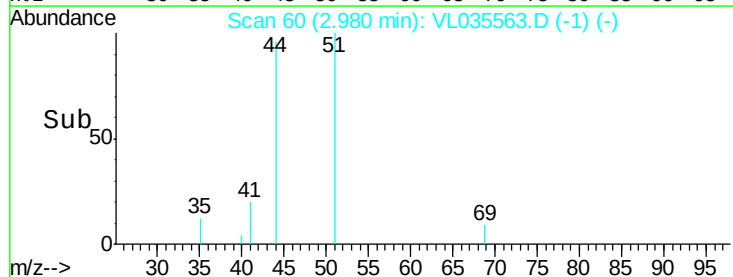
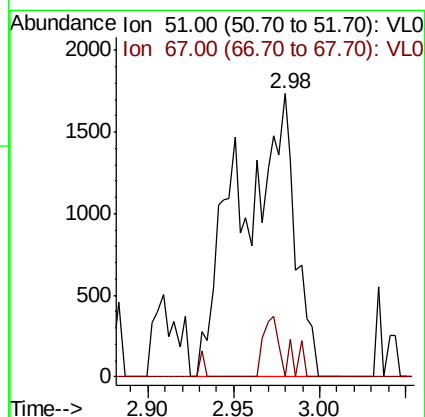
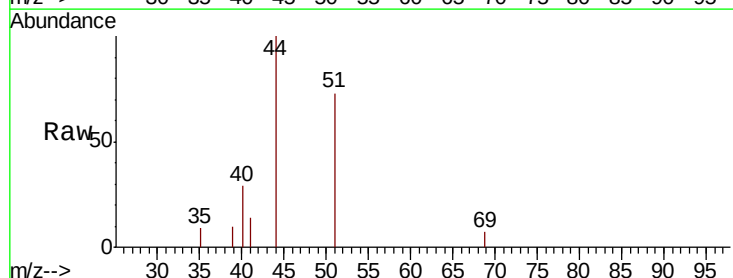
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL

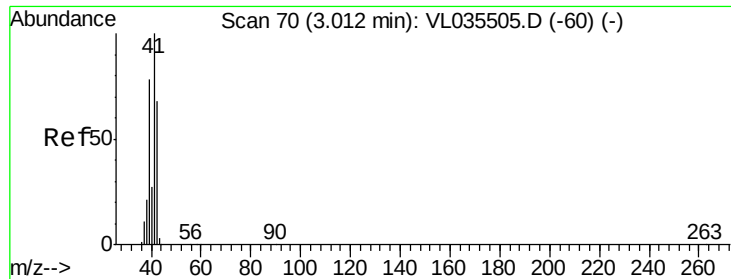
Tot Ion: 49 Resp: 1147008
Ion Ratio Lower Upper
49 100
128 96.5 50.0 150.1
130 123.3 64.4 193.2



#3
Chlorodifluoromethane
Concen: 0.030 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

Tgt Ion: 51 Resp: 3833
Ion Ratio Lower Upper
51 100
67 8.1 17.8 26.8#





#9

Propene

Concen: 0.249 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL035563.D

Acq: 8 Sep 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

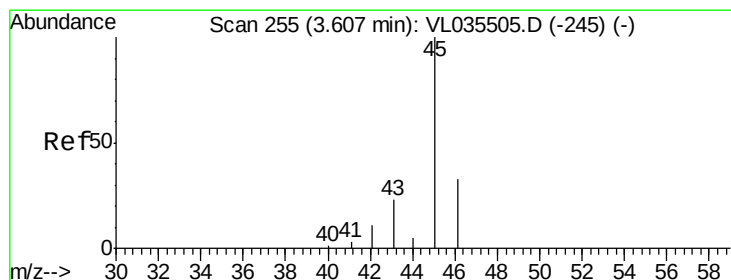
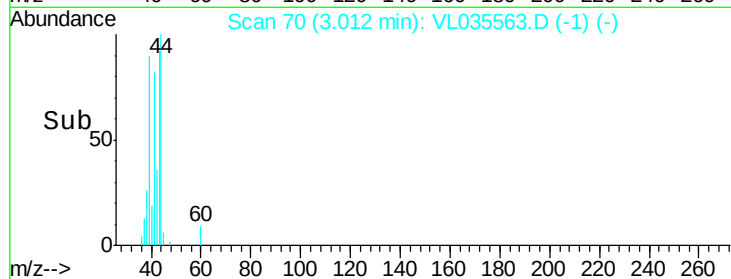
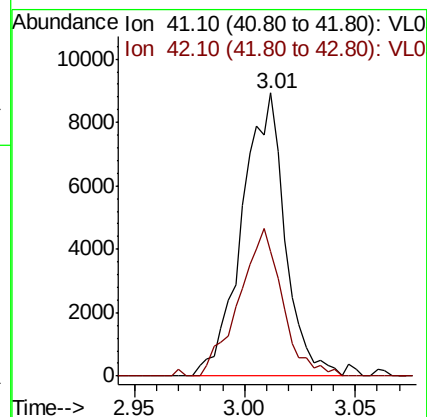
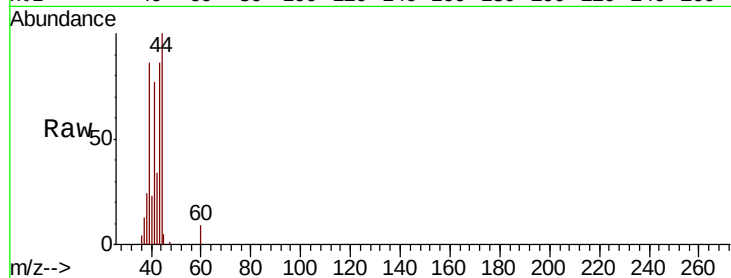
IA-4DL

Tot Ion: 41 Resp: 12161

Ion Ratio Lower Upper

41 100

42 52.8 56.3 84.5#



#13

Ethanol

Concen: 6.420 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL035563.D

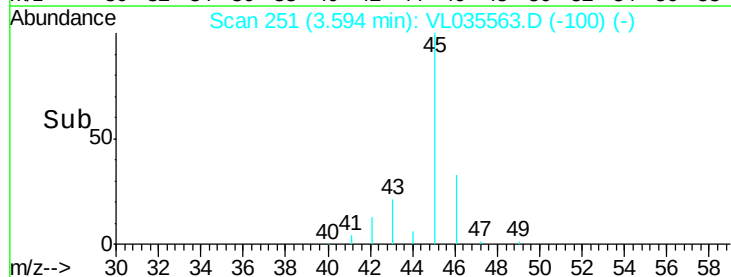
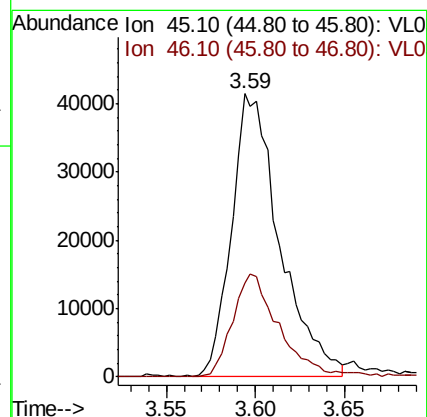
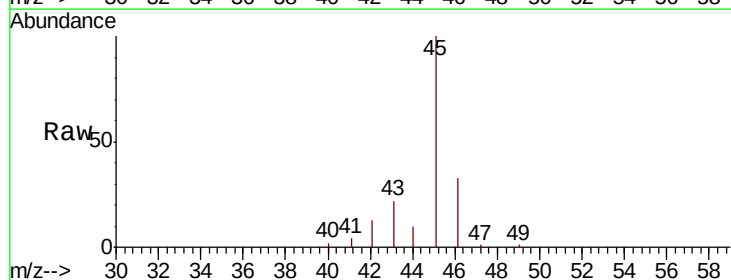
Acq: 8 Sep 2020 19:33

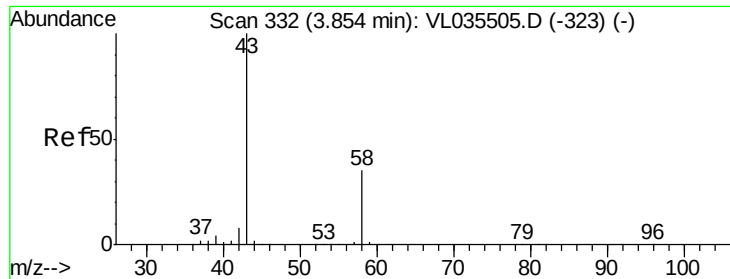
Tgt Ion: 45 Resp: 77849

Ion Ratio Lower Upper

45 100

46 35.2 15.2 60.6

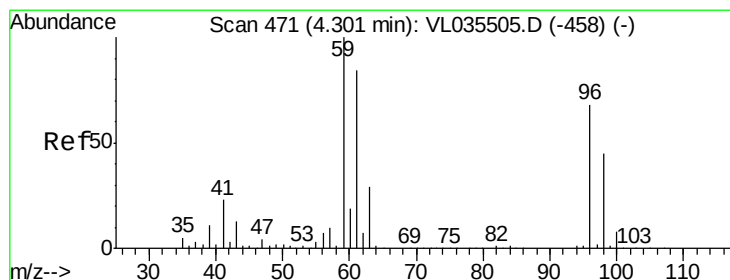
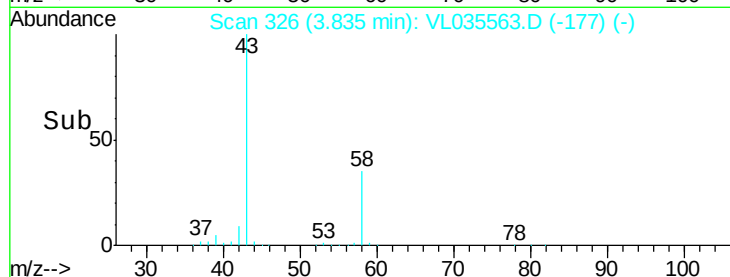
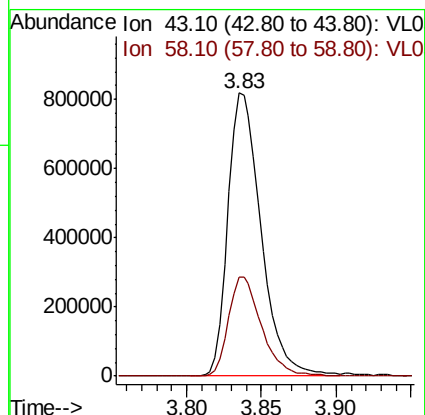
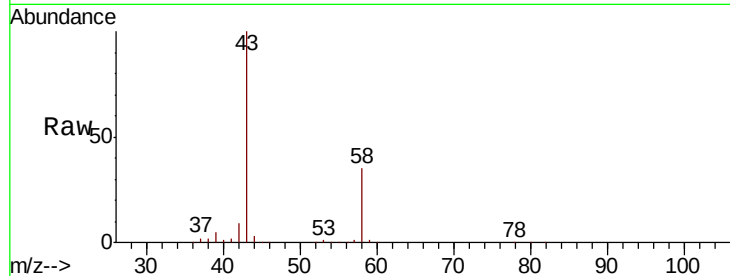




#15
Acetone
Concen: 10.016 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

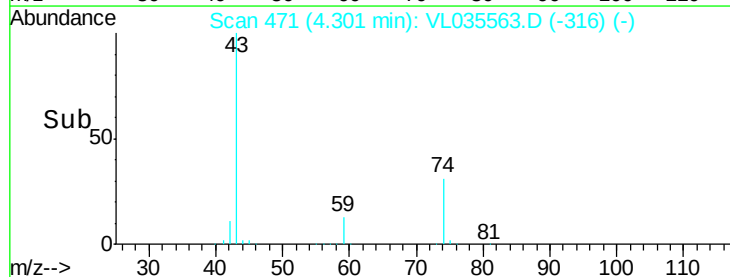
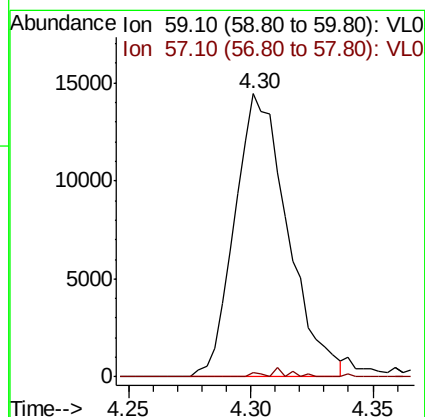
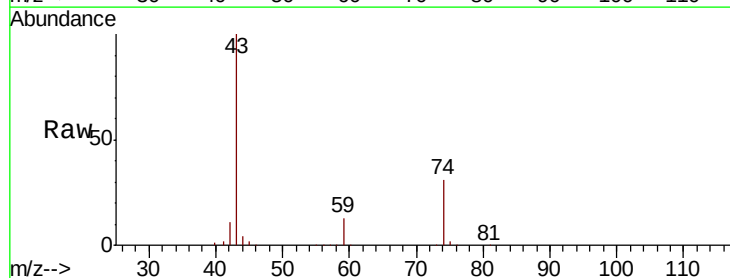
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL

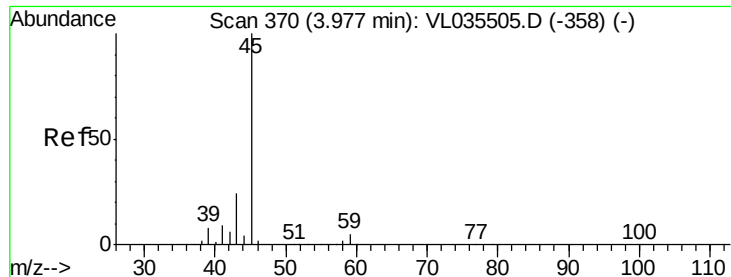
Tot Ion: 43 Resp: 1267119
Ion Ratio Lower Upper
43 100
58 35.2 28.4 42.6



#17
tert-Butyl alcohol
Concen: 0.141 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.00 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

Tgt Ion: 59 Resp: 21770
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

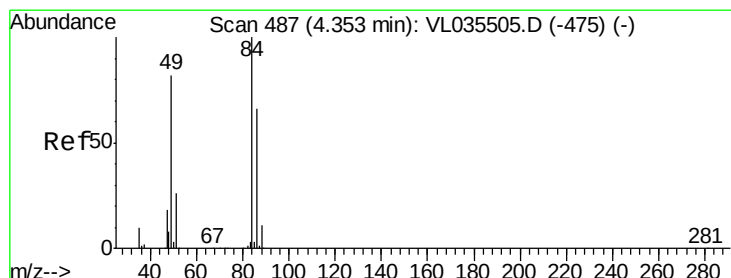
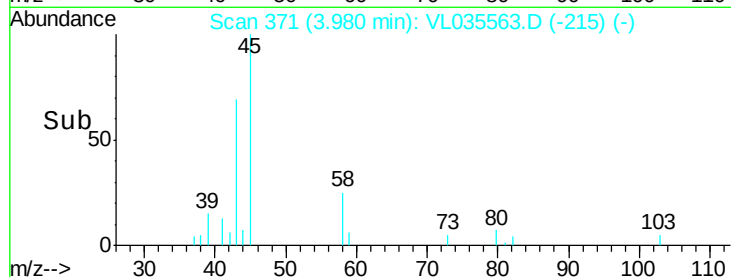
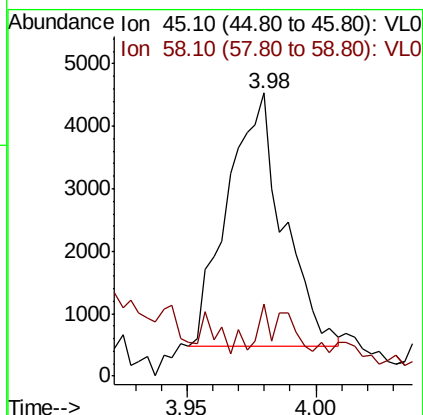
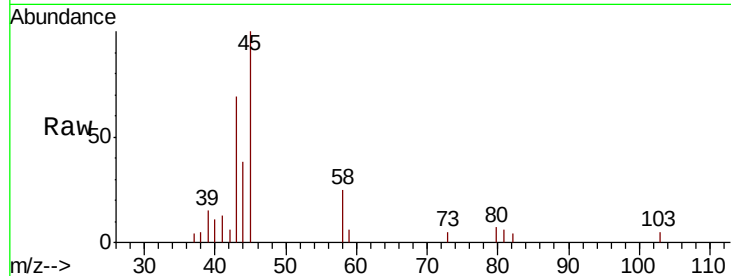




#19
Isopropyl Alcohol
Concen: 0.081 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.00 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

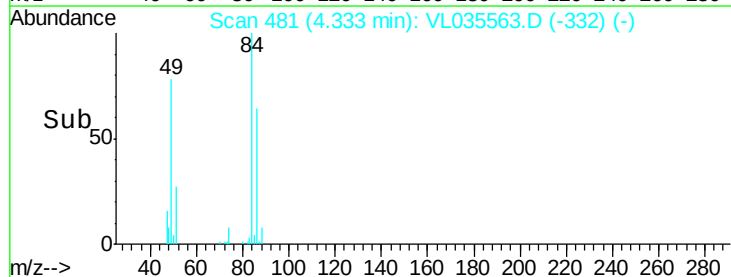
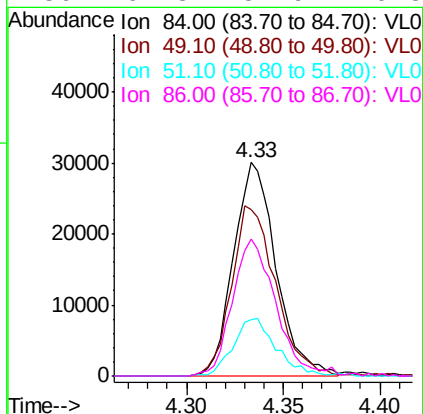
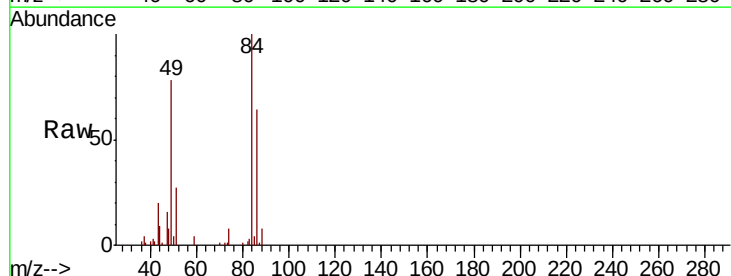
Instrument :
MSVOA_L
ClientSampled :
IA-4DL

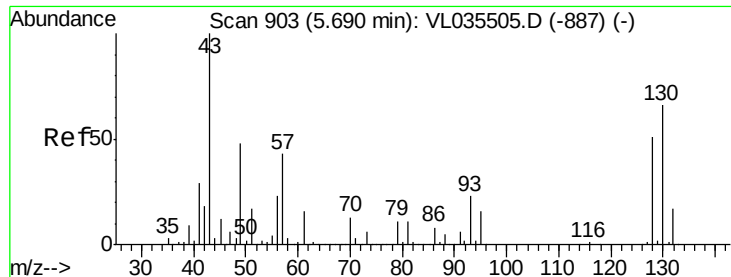
Tot Ion: 45 Resp: 6096
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#



#20
Methylene Chloride
Concen: 0.488 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

Tgt Ion: 84 Resp: 45964
Ion Ratio Lower Upper
84 100
49 78.2 65.4 98.0
51 26.6 21.5 32.3
86 64.3 52.9 79.3

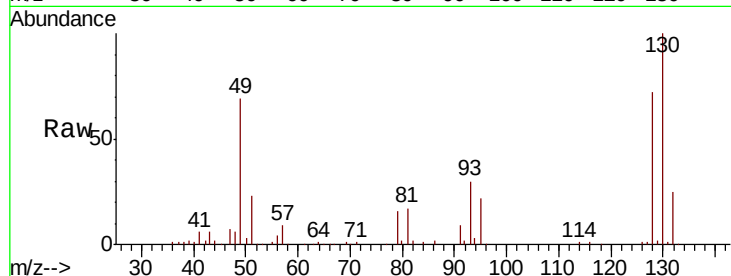




#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

Instrument :
MSVOA_L
ClientSampleId :
IA-4DL

Tot Ion:	43	Resp:	8614
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.4	12.6
61	3.2	10.6	16.0#
70	5.0	9.4	14.2#



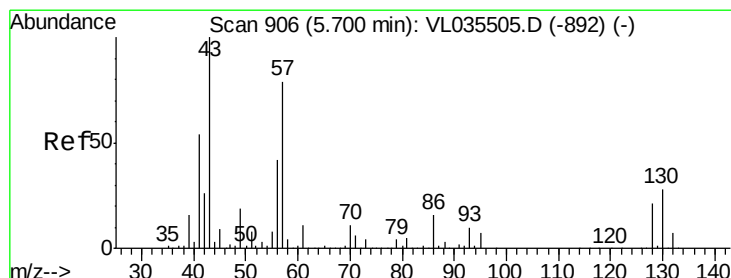
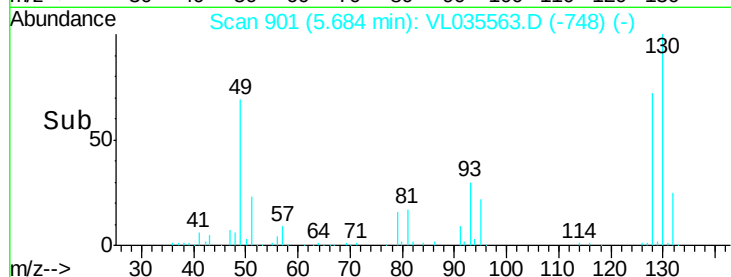
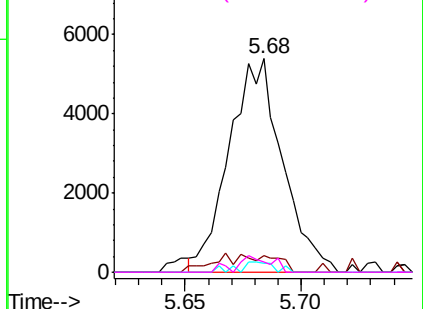
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

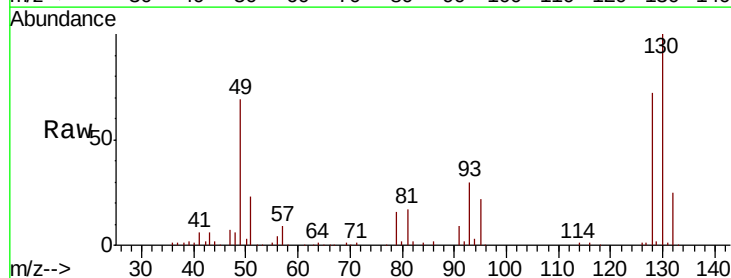
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.095 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035563.D
Acq: 8 Sep 2020 19:33

Tgt Ion:	57	Resp:	11989
Ion	Ratio	Lower	Upper
57	100		
41	75.7	55.9	83.9
43	74.1	141.8	212.8#
56	56.9	41.8	62.8



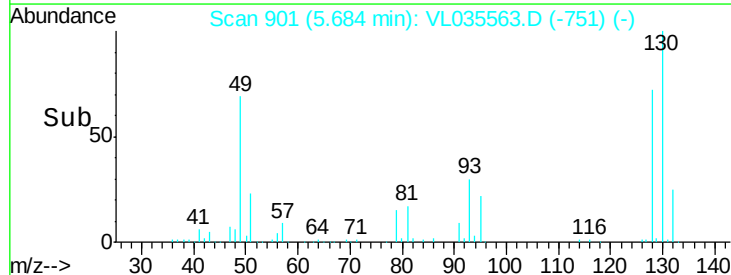
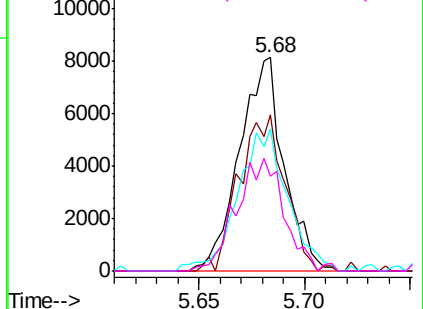
Abundance

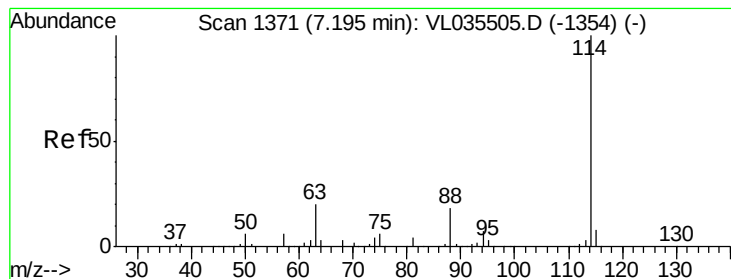
Ion 57.10 (56.80 to 57.80): VL0

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: VL035563.D

Acq: 8 Sep 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL

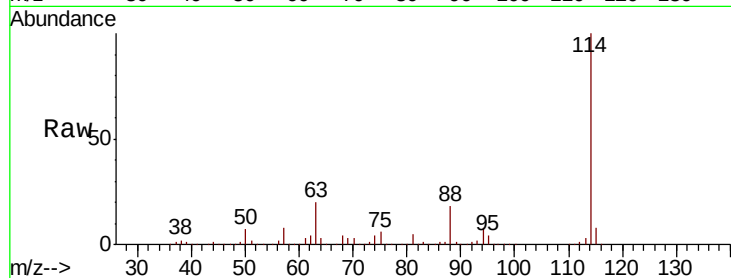
Tot Ion:114 Resp: 4730402

Ion Ratio Lower Upper

114 100

63 18.7 14.7 22.1

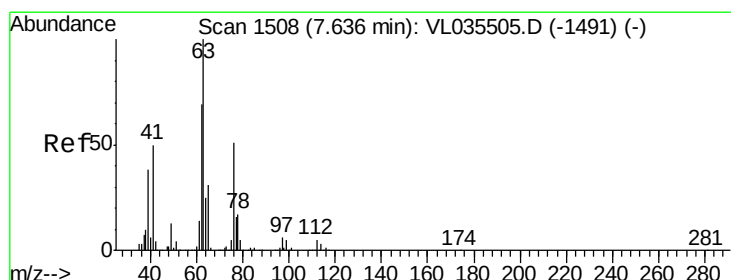
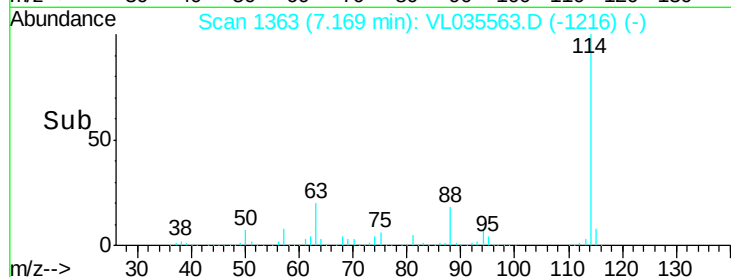
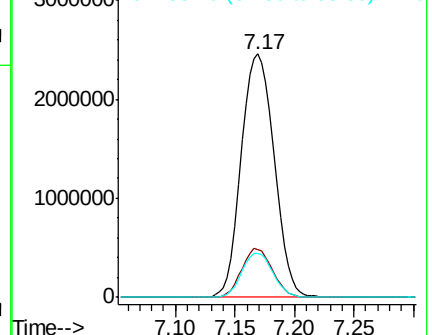
88 17.2 13.4 20.2



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



#39

1,2-Dichloropropane

Concen: 8.514 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL035563.D

Acq: 8 Sep 2020 19:33

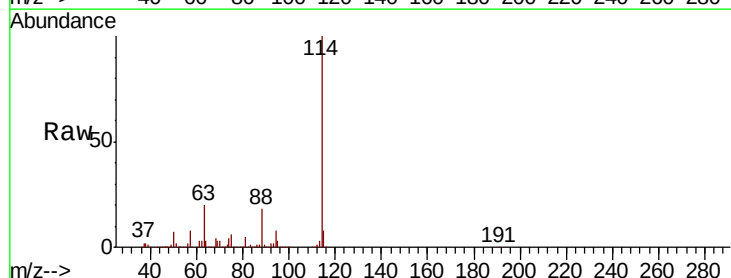
Tgt Ion: 63 Resp: 880734

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

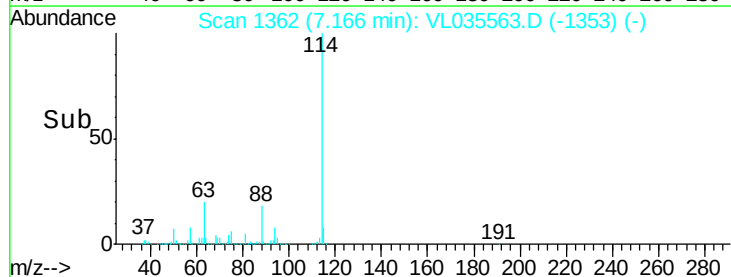
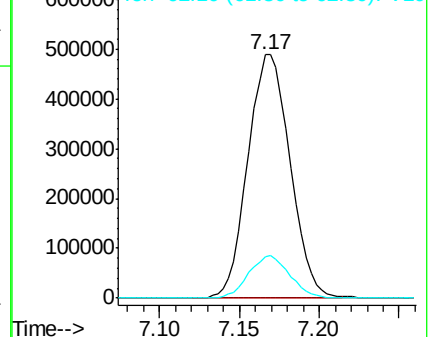
62 16.9 55.4 83.0#

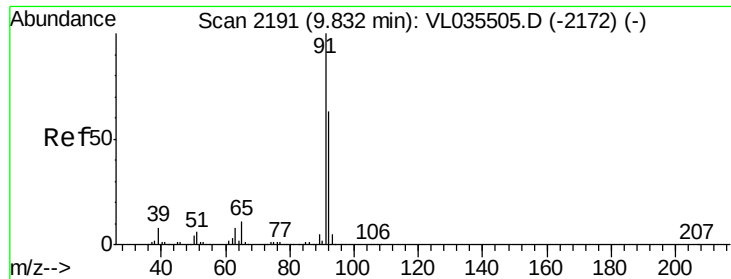


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.077 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.03 min

Lab File: VL035563.D

Acq: 8 Sep 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

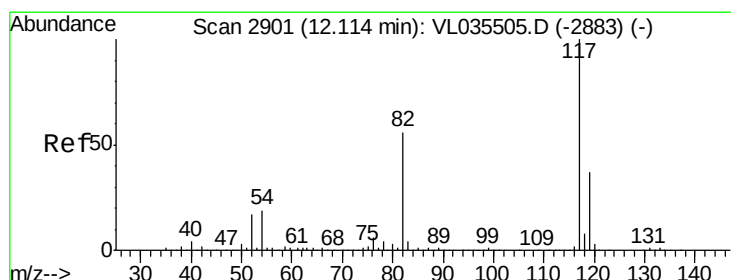
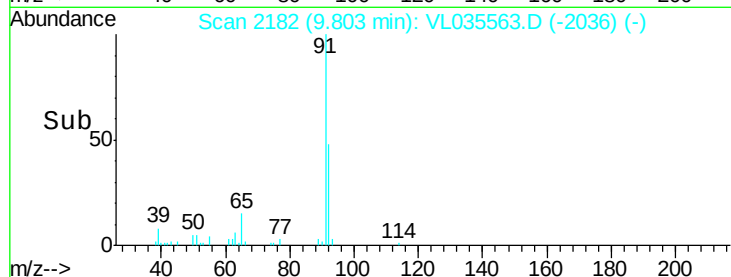
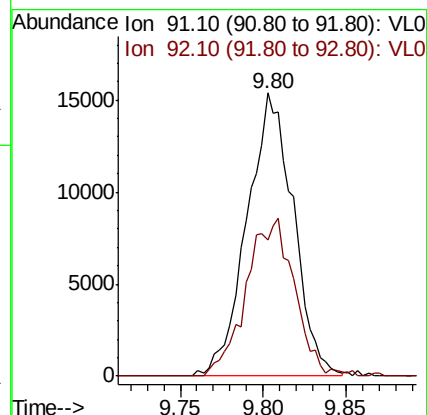
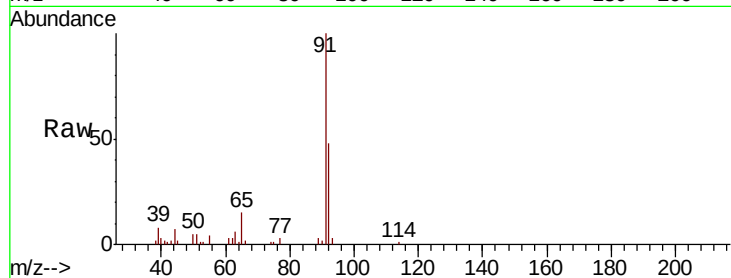
IA-4DL

Tot Ion: 91 Resp: 29790

Ion Ratio Lower Upper

91 100

92 58.4 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: VL035563.D

Acq: 8 Sep 2020 19:33

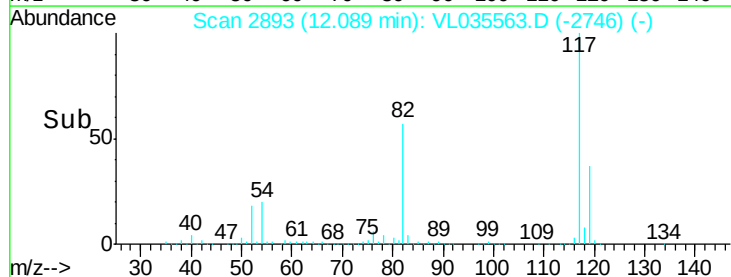
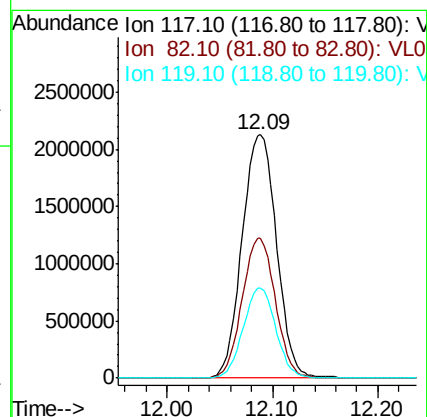
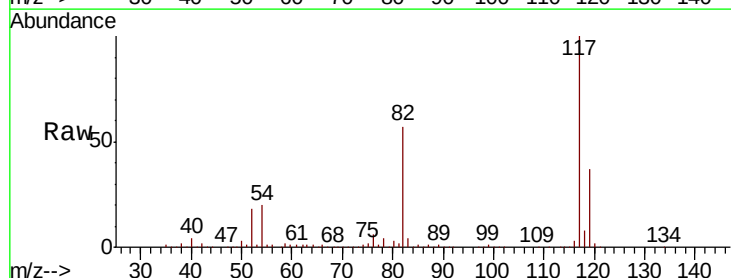
Tgt Ion: 117 Resp: 4843830

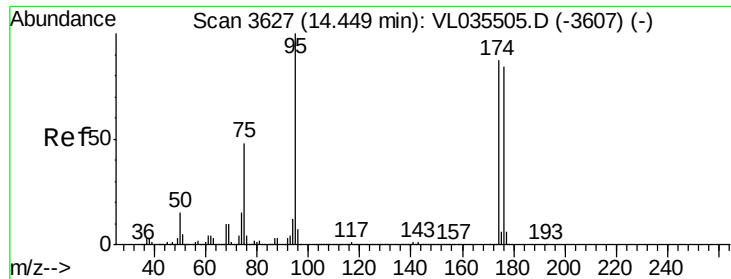
Ion Ratio Lower Upper

117 100

82 55.7 41.6 62.4

119 35.2 29.3 43.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.350 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.03 min

Lab File: VL035563.D

Acq: 8 Sep 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL

Tot Ion: 95 Resp: 3560278

Ion Ratio Lower Upper

95 100

174 85.4 69.6 104.4

175 6.3 5.1 7.7

