

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070820\
 Data File : VL035181.D
 Acq On : 8 Jul 2020 12:38
 Operator : SY/AP
 Sample : L3190-01DL 600X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 08 13:44:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1256103	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2916935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2653010	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2162636	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

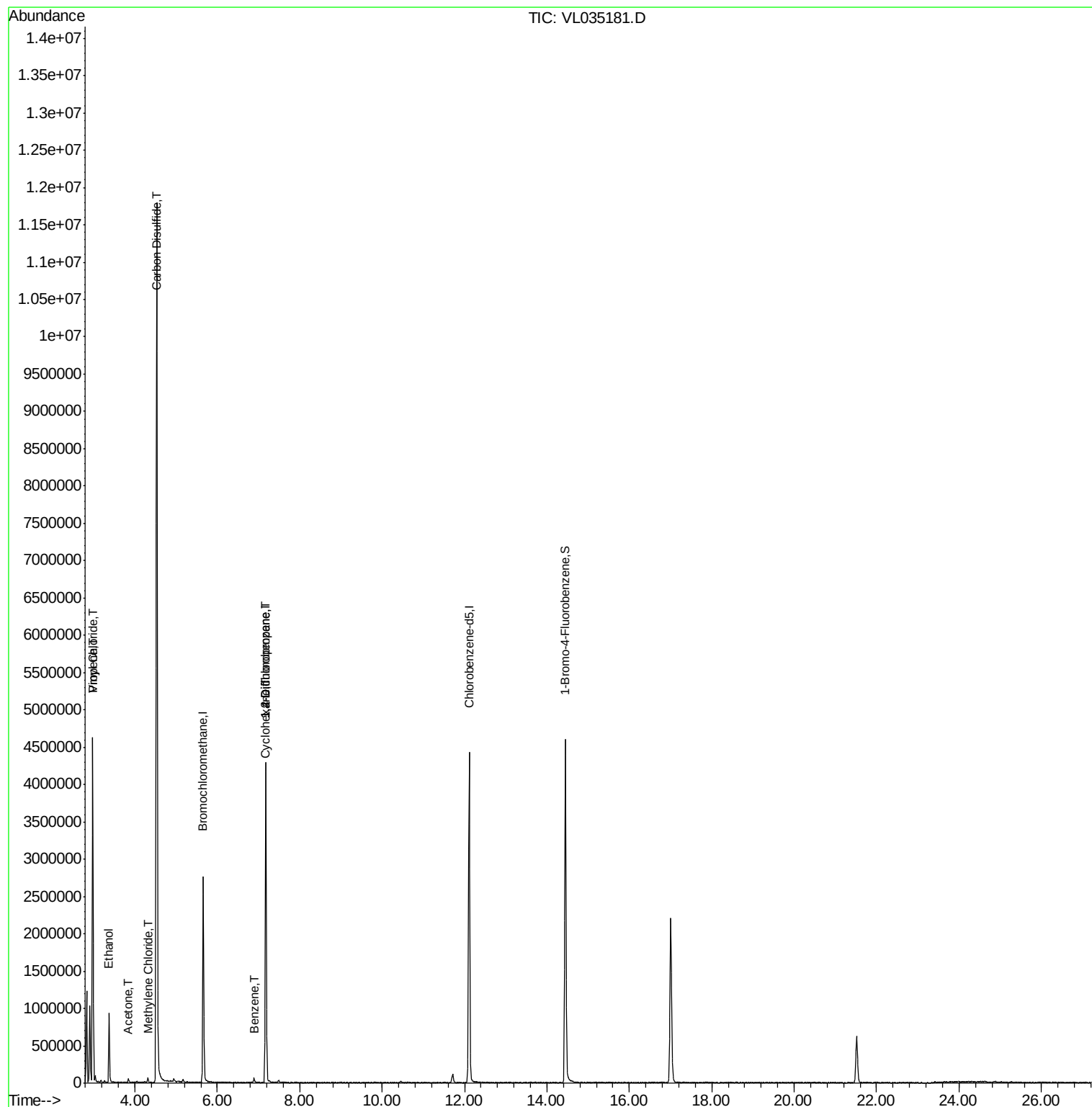
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	2.98	62	358661	4.292	ppbv #	49
9) Propene	2.97	41	24123	0.460	ppbv	94
13) Ethanol	3.37	45	290161	17.381	ppbv	72
15) Acetone	3.84	43	45210	0.266	ppbv #	72
20) Methylene Chloride	4.32	84	15926	0.215	ppbv #	76
27) Carbon Disulfide	4.53	76	13534329	83.297	ppbv #	64
30) Cyclohexane	7.16	84	4192	0.049	ppbv #	1
36) Benzene	6.89	78	22178	0.105	ppbv	94
39) 1,2-Dichloropropane	7.18	63	795945	9.480	ppbv #	23

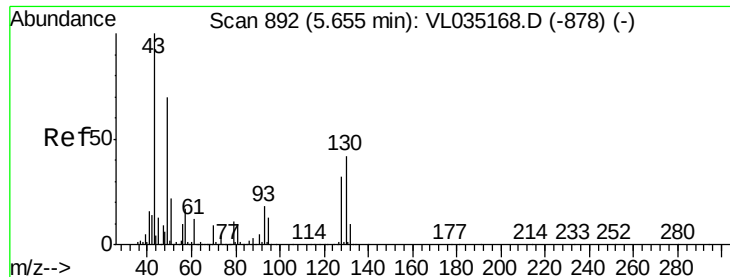
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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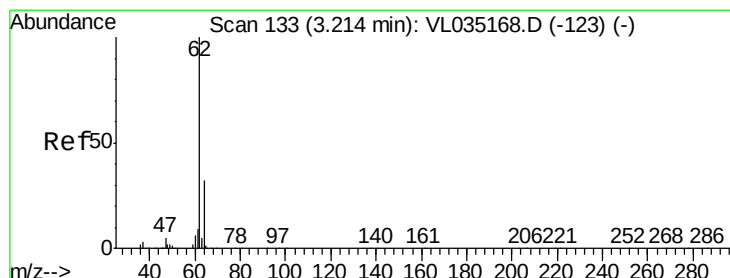
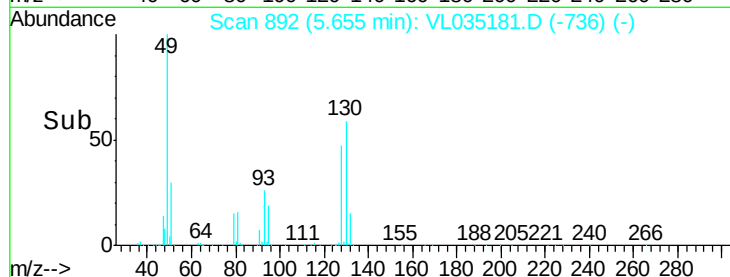
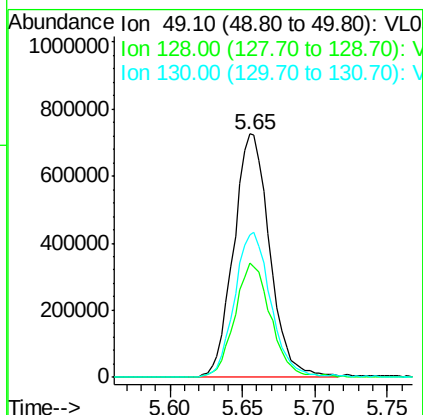
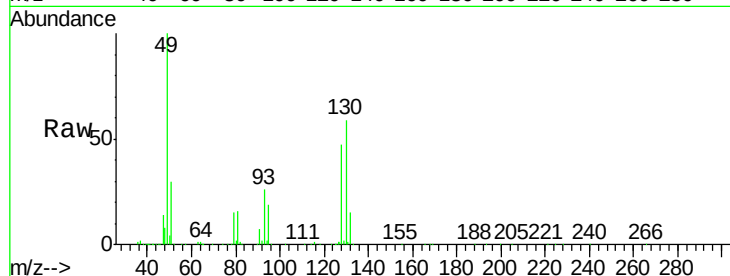




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VL035181.D
 Acq: 8 Jul 2020 12:38

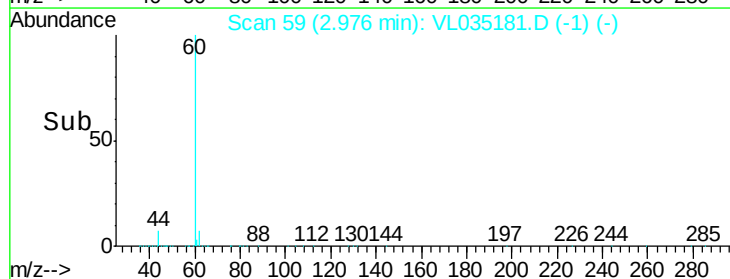
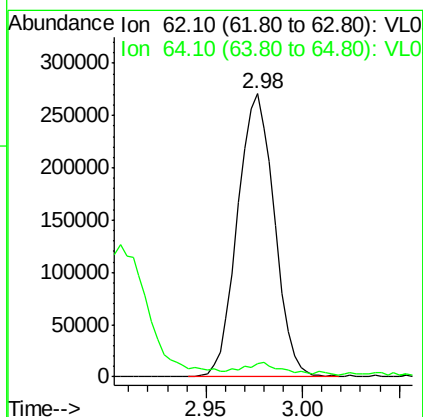
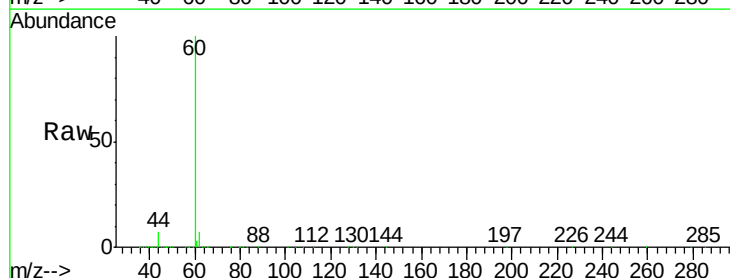
Instrument :
 MSVOA_L
 ClientSampleId :

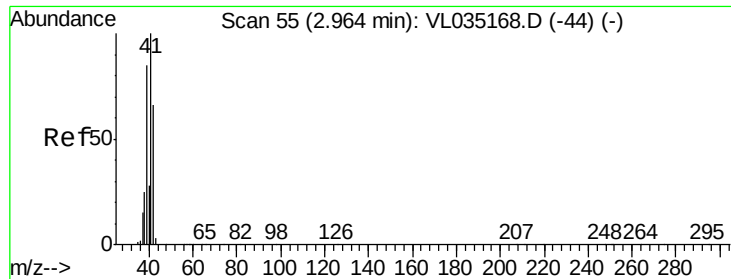
Tgt Ion: 49 Resp: 1256103
 Ion Ratio Lower Upper
 49 100
 128 47.8 23.8 71.4
 130 60.6 29.9 89.8



#5
 Vinyl Chloride
 Concen: 4.292 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. -0.24 min
 Lab File: VL035181.D
 Acq: 8 Jul 2020 12:38

Tgt Ion: 62 Resp: 358661
 Ion Ratio Lower Upper
 62 100
 64 3.7 25.9 38.9#





#9

Propene

Concen: 0.460 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Instrument :

MSVOA_L

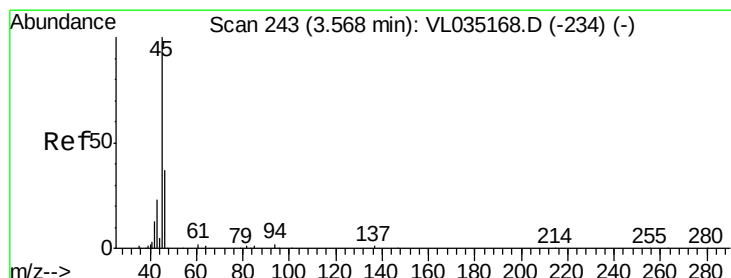
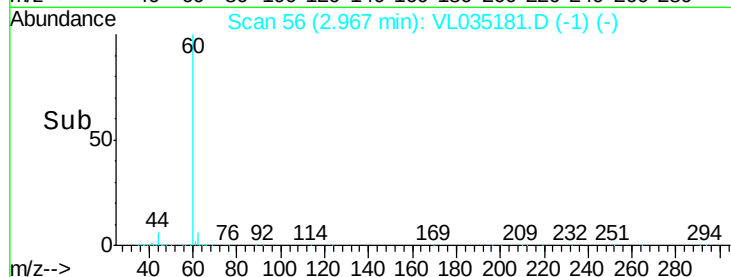
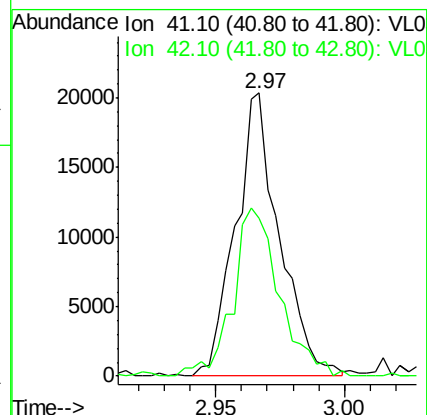
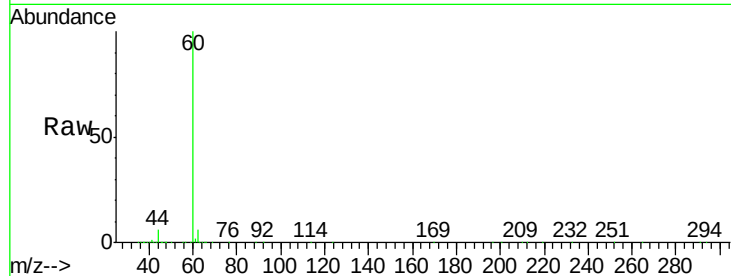
ClientSampleId :

Tgt Ion: 41 Resp: 24123

Ion Ratio Lower Upper

41 100

42 63.3 54.6 81.8



#13

Ethanol

Concen: 17.381 ppbv

RT: 3.37 min Scan# 182

Delta R.T. -0.20 min

Lab File: VL035181.D

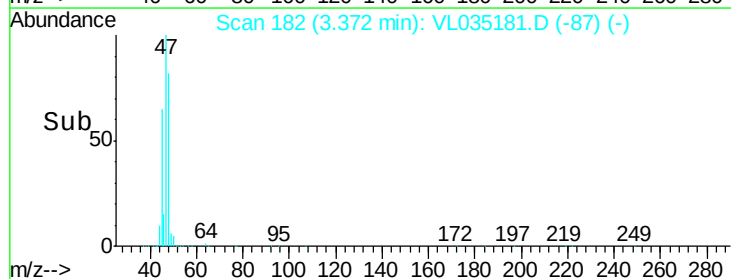
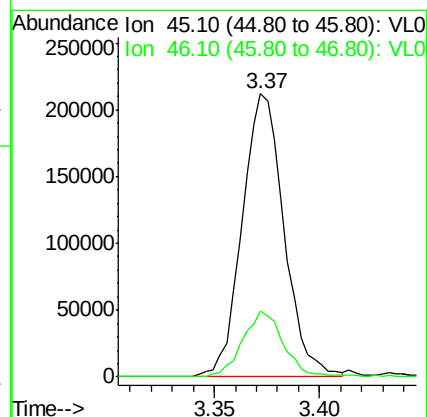
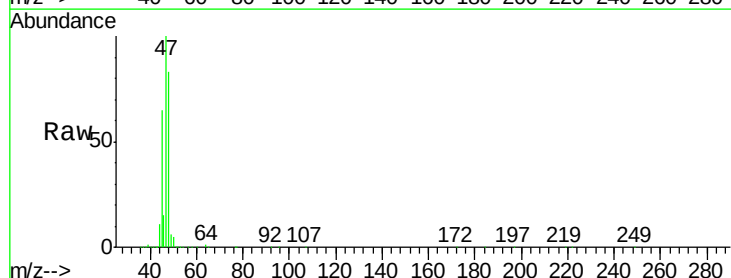
Acq: 8 Jul 2020 12:38

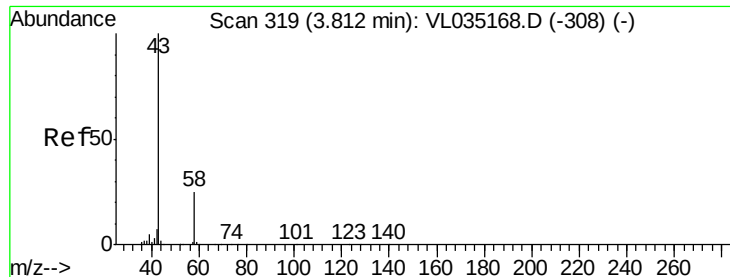
Tgt Ion: 45 Resp: 290161

Ion Ratio Lower Upper

45 100

46 23.4 16.2 65.0





#15

Acetone

Concen: 0.266 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.03 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Instrument :

MSVOA_L

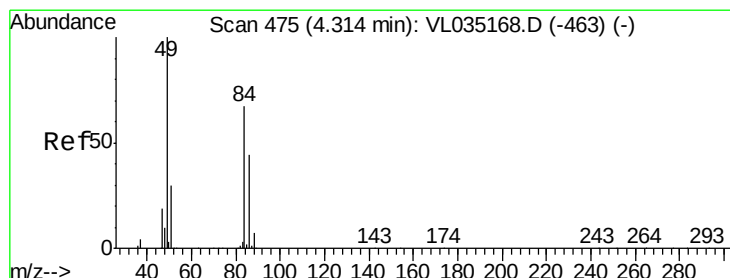
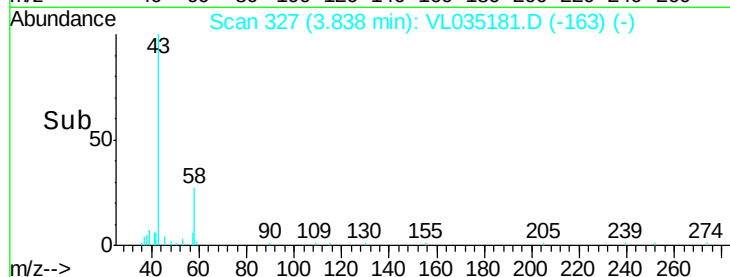
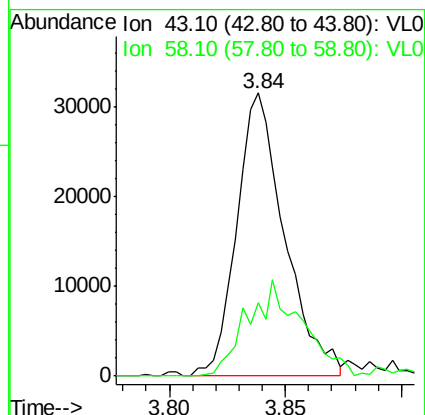
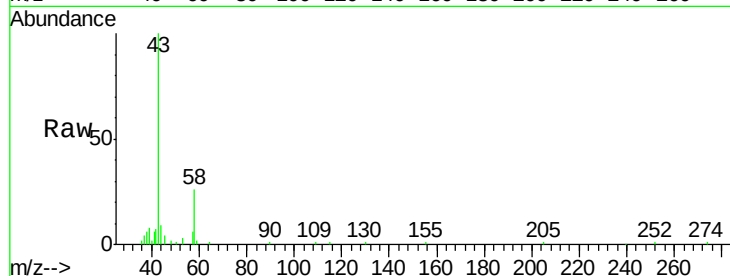
ClientSampleId :

Tgt Ion: 43 Resp: 45210

Ion Ratio Lower Upper

43 100

58 41.1 21.3 31.9#



#20

Methylene Chloride

Concen: 0.215 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Tgt Ion: 84 Resp: 15926

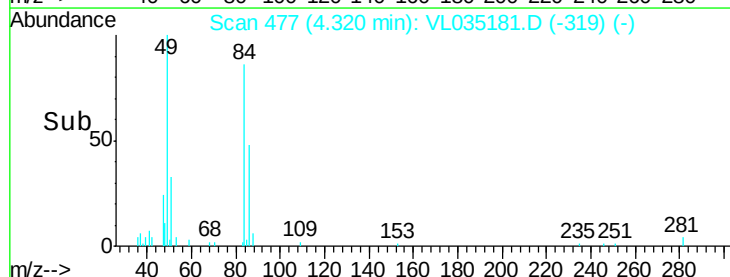
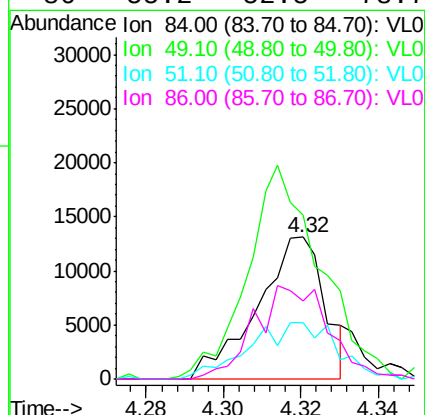
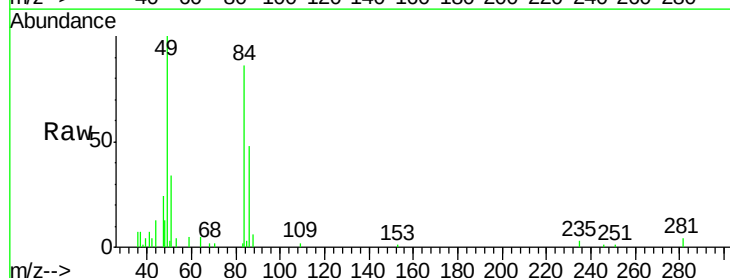
Ion Ratio Lower Upper

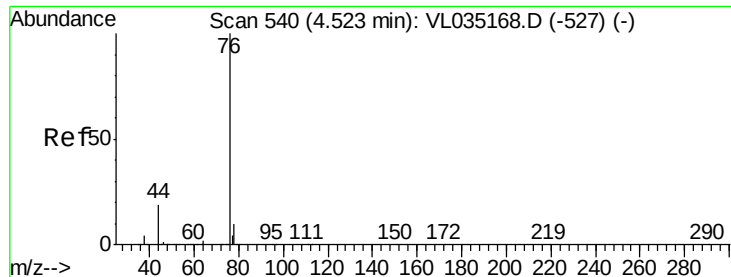
84 100

49 109.1 119.4 179.0#

51 37.6 36.6 55.0

86 55.2 52.5 78.7





#27

Carbon Disulfide

Concen: 83.297 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Instrument :

MSVOA_L

ClientSampleId :

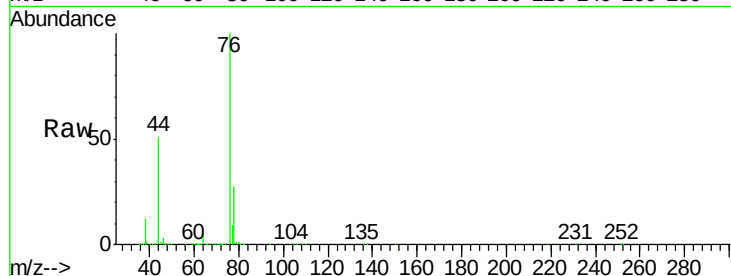
Tgt Ion: 76 Resp:13534329

Ion Ratio Lower Upper

76 100

44 37.1 14.9 22.3#

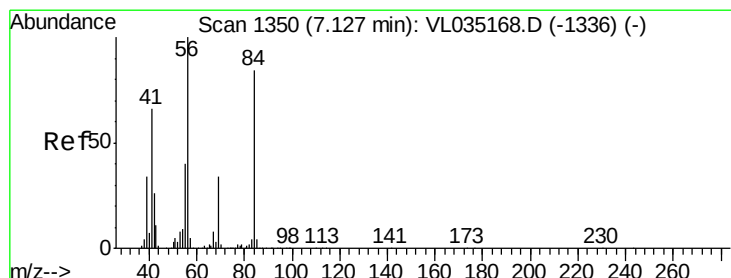
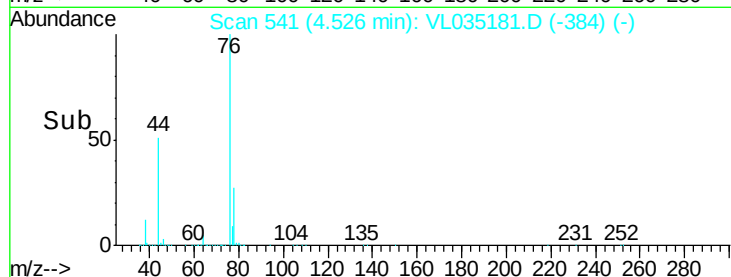
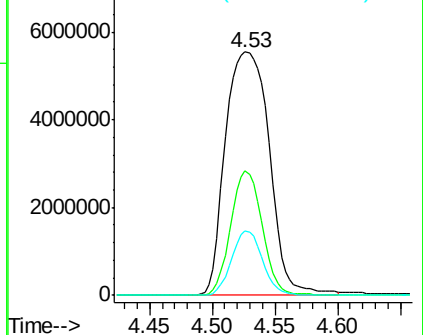
78 18.8 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.049 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.03 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

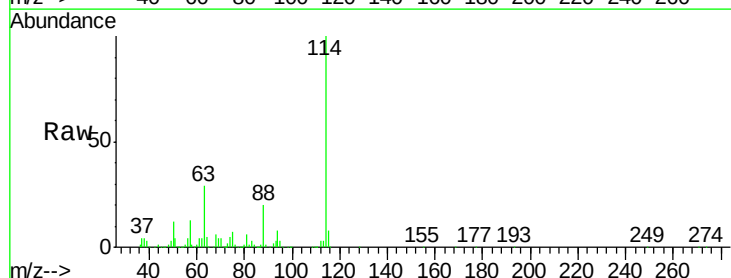
Tgt Ion: 84 Resp: 4192

Ion Ratio Lower Upper

84 100

56 0.0 105.6 158.4#

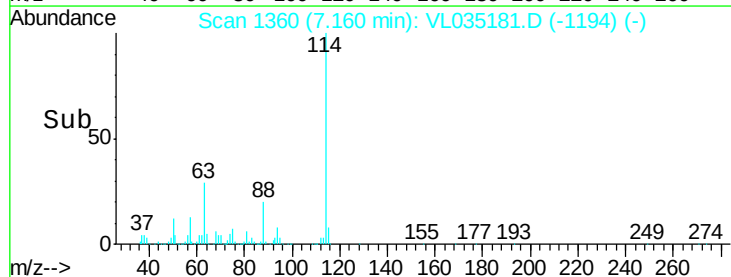
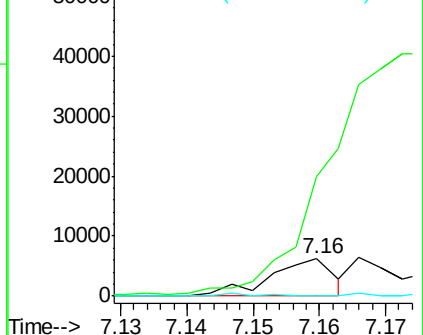
41 13.0 64.9 97.3#

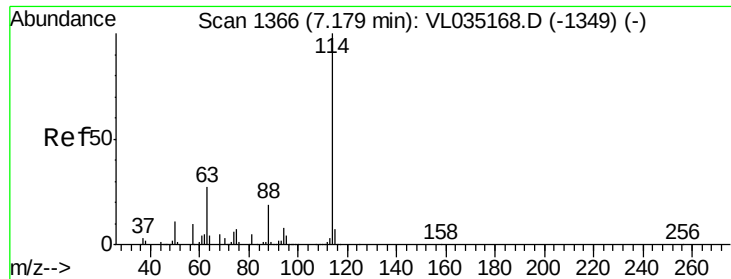


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

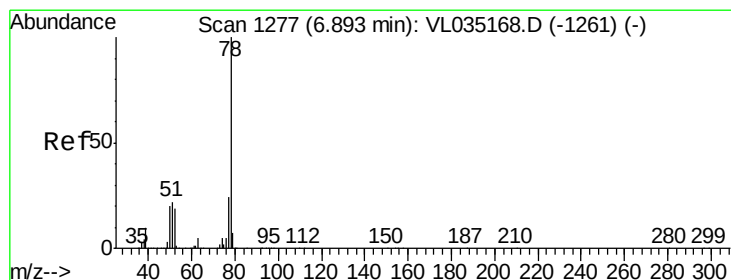
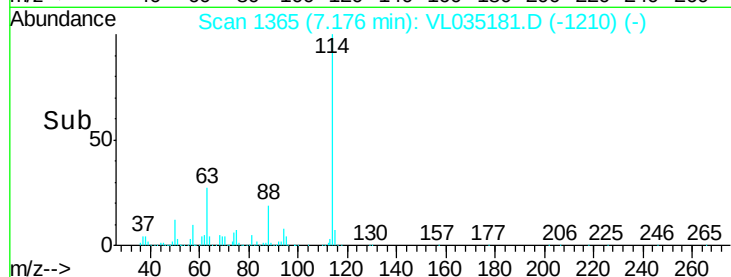
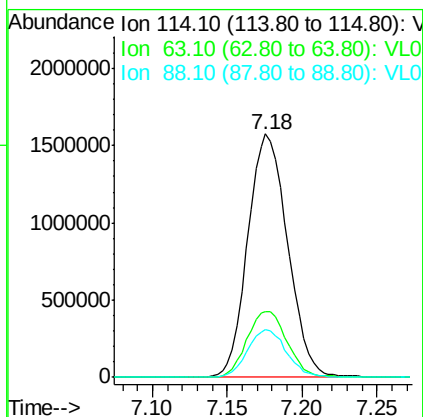
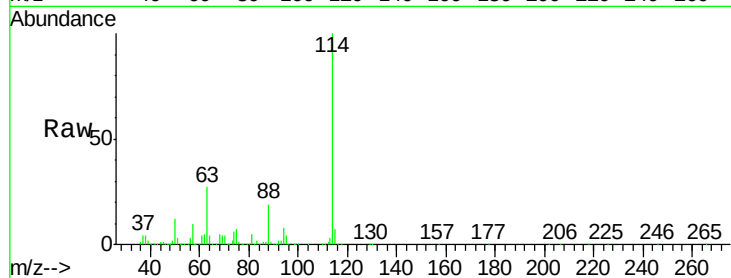




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035181.D
 Acq: 8 Jul 2020 12:38

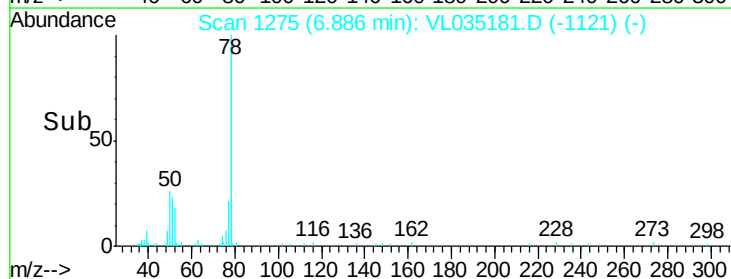
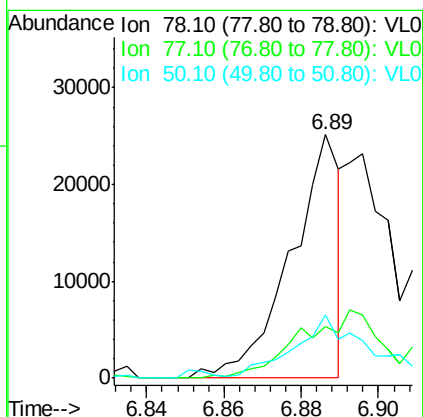
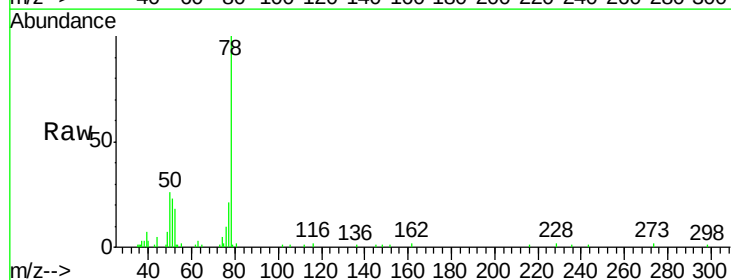
Instrument :
 MSVOA_L
 ClientSampleId :

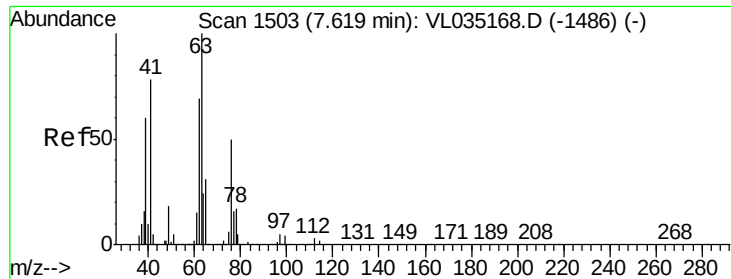
Tgt Ion:114 Resp: 2916935
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.0 33.0
 88 19.3 15.4 23.0



#36
 Benzene
 Concen: 0.105 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL035181.D
 Acq: 8 Jul 2020 12:38

Tgt Ion: 78 Resp: 22178
 Ion Ratio Lower Upper
 78 100
 77 21.0 19.3 28.9
 50 22.8 16.0 24.0





#39

1,2-Dichloropropane

Concen: 9.480 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Instrument :

MSVOA_L

ClientSampleId :

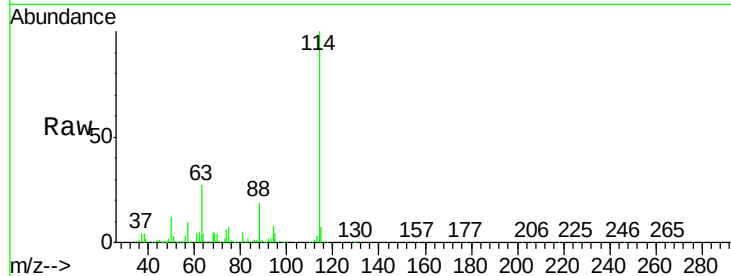
Tgt Ion: 63 Resp: 795945

Ion Ratio Lower Upper

63 100

41 0.1 62.6 94.0#

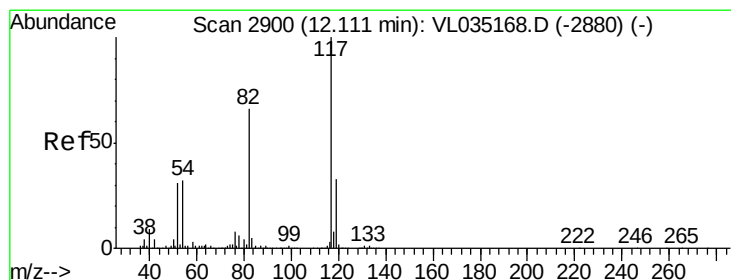
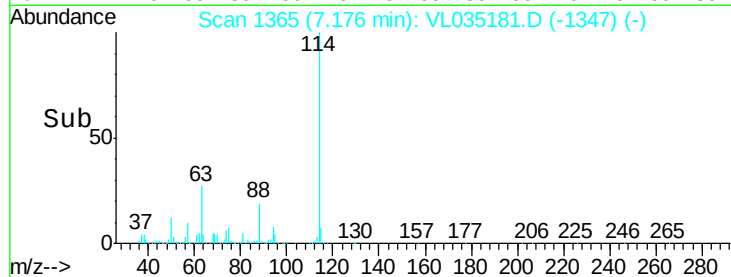
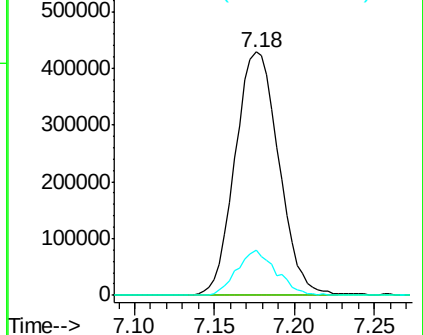
62 18.4 55.0 82.6#



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: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

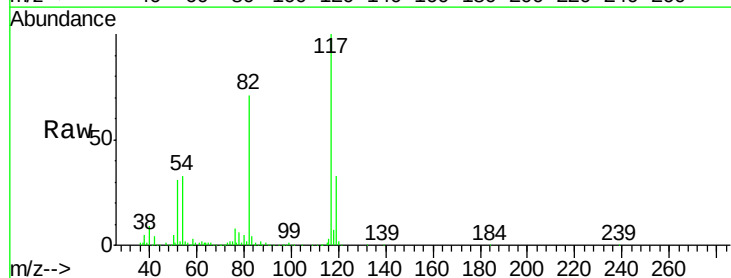
Tgt Ion: 117 Resp: 2653010

Ion Ratio Lower Upper

117 100

82 69.6 52.3 78.5

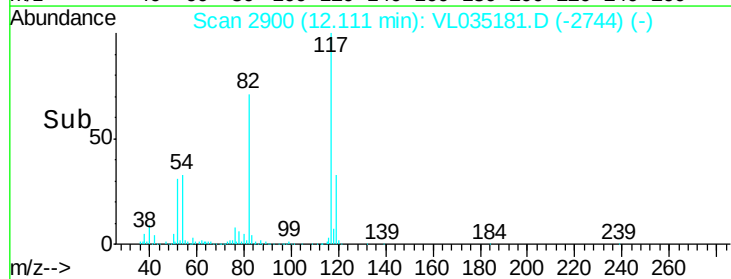
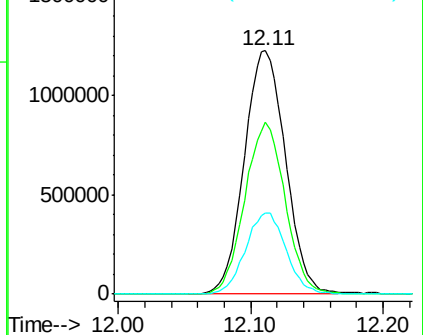
119 33.0 24.9 37.3

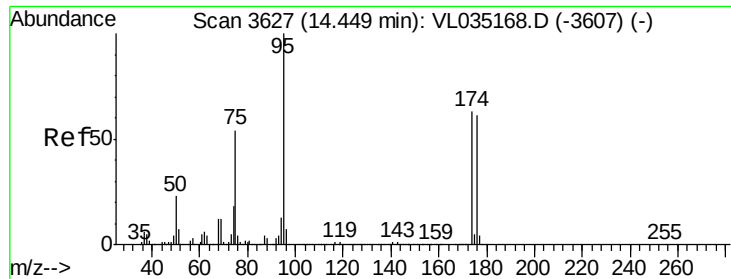


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.034 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL035181.D

Acq: 8 Jul 2020 12:38

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 95 Resp: 2162636

Ion Ratio Lower Upper

95 100

174 66.2 52.2 78.2

175 5.0 4.0 6.0

