

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052522\
 Data File : VL039122.D
 Acq On : 25 May 2022 18:00
 Operator : SY/AP
 Sample : N2991-01DL 100X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Quant Time: May 26 07:58:12 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	898300	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2059908	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	1807416	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1542102	10.77	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

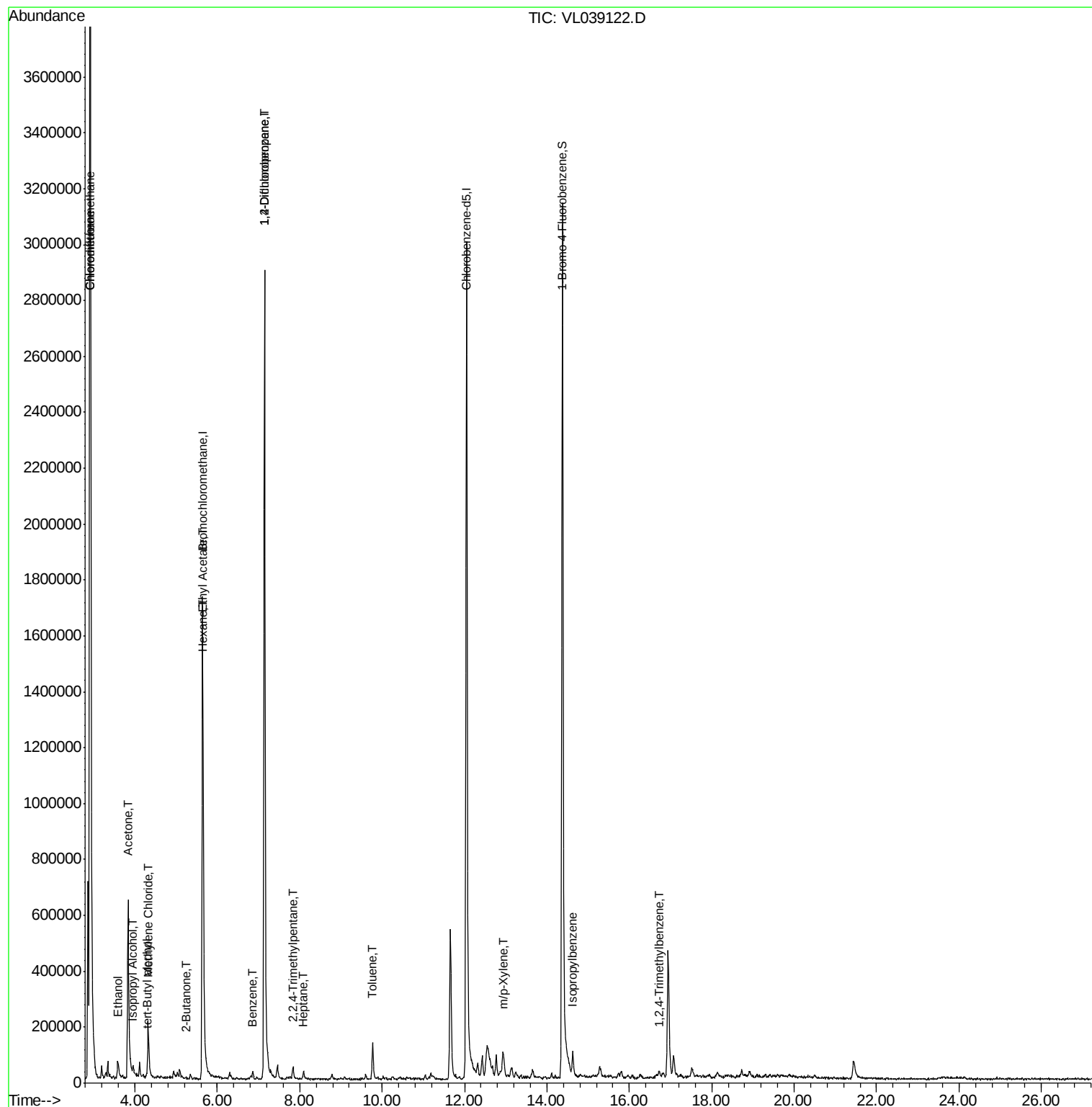
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.91	51	1046817	9.391	ppbv #	58
4) Chloromethane	2.91	50	280798	5.030	ppbv #	47
10) Heptane	8.09	43	7255	0.061	ppbv #	62
13) Ethanol	3.59	45	62704	18.202	ppbv	86
15) Acetone	3.83	43	858167	10.127	ppbv	98
17) tert-Butyl alcohol	4.28	59	5826	0.089	ppbv #	49
19) Isopropyl Alcohol	3.95	45	13928	0.346	ppbv #	95
20) Methylene Chloride	4.33	84	67479	2.113	ppbv	95
25) Ethyl Acetate	5.66	43	36836	0.182	ppbv #	78
26) Hexane	5.66	57	103558	1.149	ppbv #	37
34) 2-Butanone	5.23	43	3968	0.038	ppbv #	54
36) Benzene	6.86	78	9703	0.055	ppbv	98
39) 1,2-Dichloropropane	7.14	63	604669	8.816	ppbv #	27
44) 2,2,4-Trimethylpentane	7.84	57	23262	0.075	ppbv #	43
53) Toluene	9.77	91	43716	0.221	ppbv #	21
59) m/p-Xylene	12.96	91	11822	0.053	ppbv #	33
62) Isopropylbenzene	14.62	105	22595	0.074	ppbv #	49
74) 1,2,4-Trimethylbenzene	16.72	105	8125	0.035	ppbv #	53

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

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QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: SG-2DL

Acq: 25 May 2022 18:00

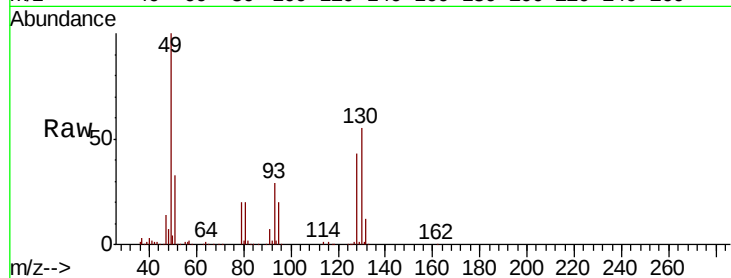
Tot Ion: 49 Resp: 898300

Ion Ratio Lower Upper

49 100

128 47.1 23.3 69.8

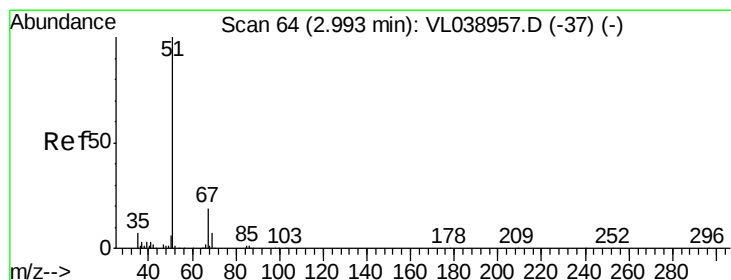
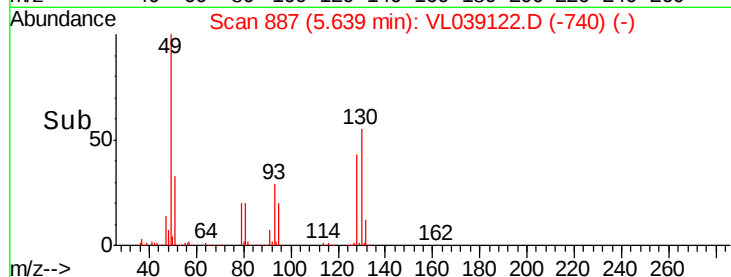
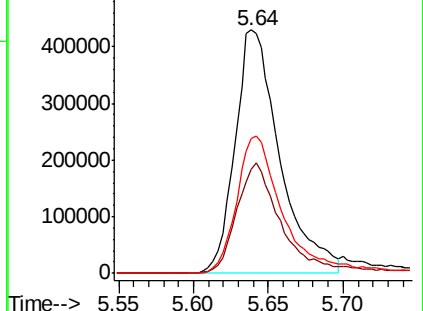
130 60.9 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 9.391 ppbv

RT: 2.91 min Scan# 38

Delta R.T. -0.08 min

Lab File: VL039122.D

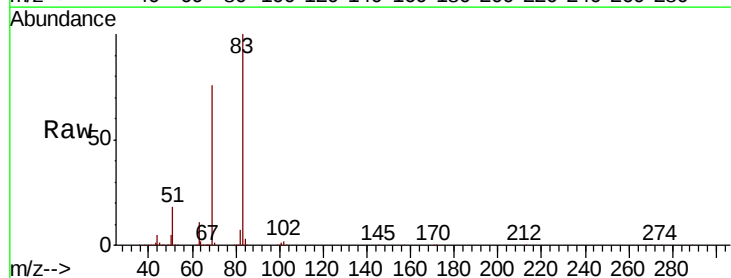
Acq: 25 May 2022 18:00

Tgt Ion: 51 Resp: 1046817

Ion Ratio Lower Upper

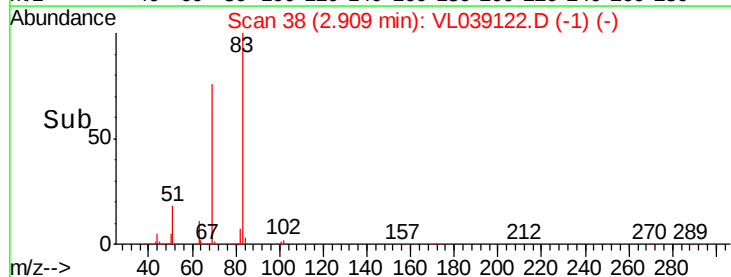
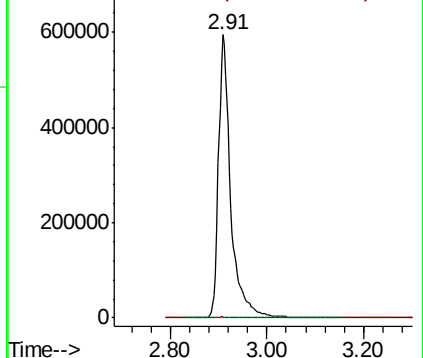
51 100

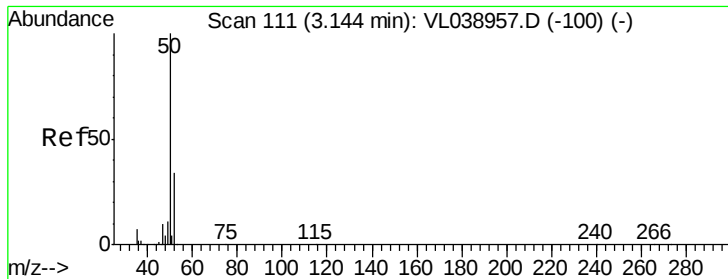
67 0.4 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 5.030 ppbv

RT: 2.91 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

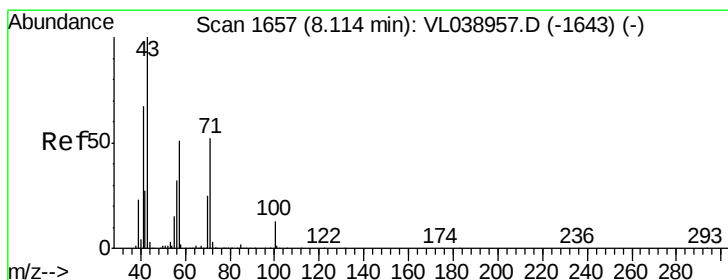
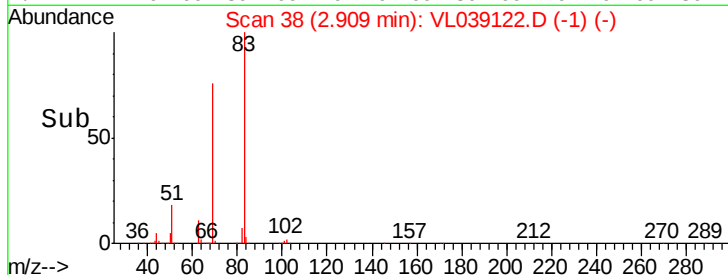
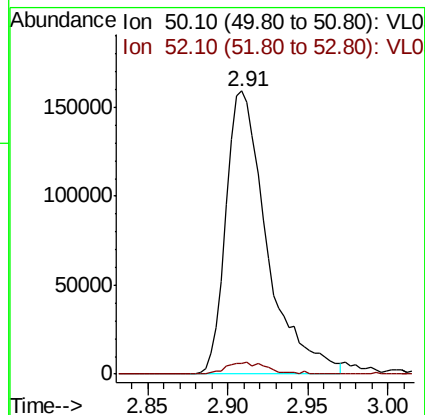
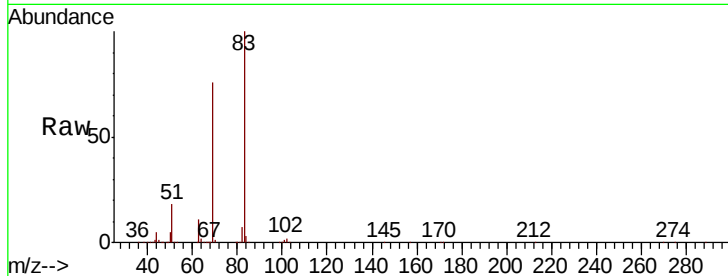
Acq: 25 May 2022 18:00

Tot Ion: 50 Resp: 280798

Ion Ratio Lower Upper

50 100

52 3.6 27.3 40.9#



#10

Heptane

Concen: 0.061 ppbv

RT: 8.09 min Scan# 1649

Delta R.T. -0.03 min

Lab File: VL039122.D

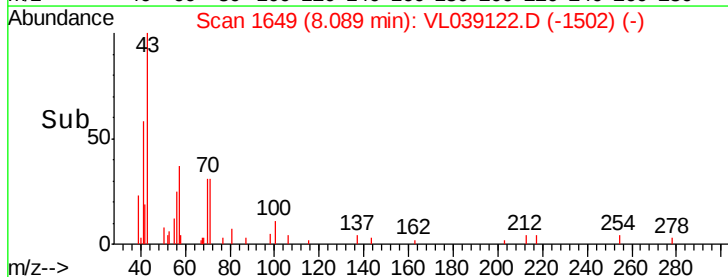
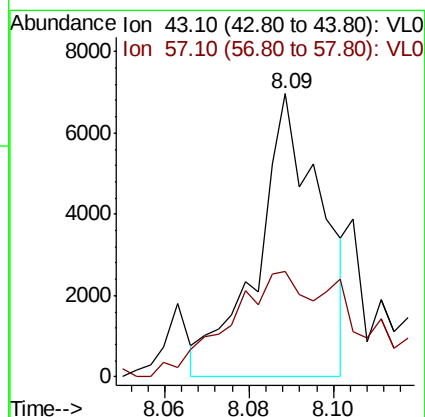
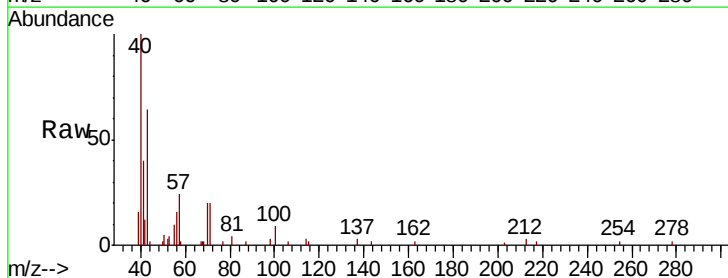
Acq: 25 May 2022 18:00

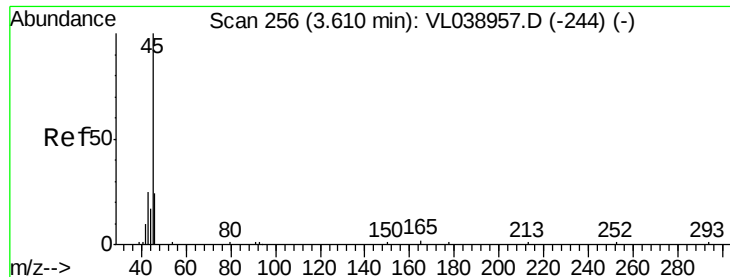
Tgt Ion: 43 Resp: 7255

Ion Ratio Lower Upper

43 100

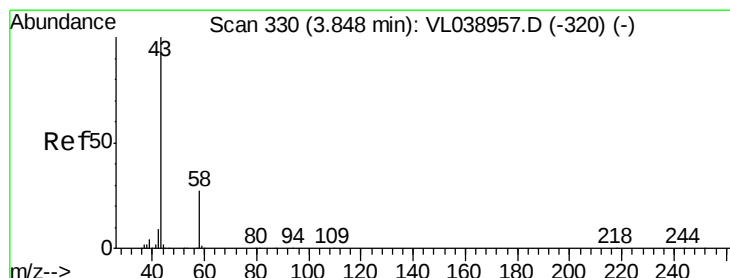
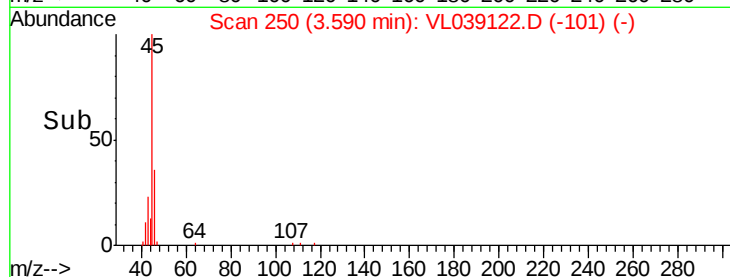
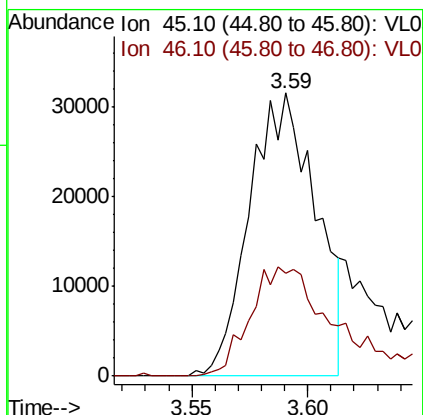
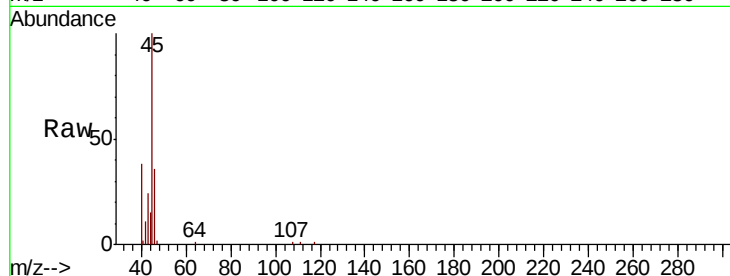
57 77.0 40.5 60.7#





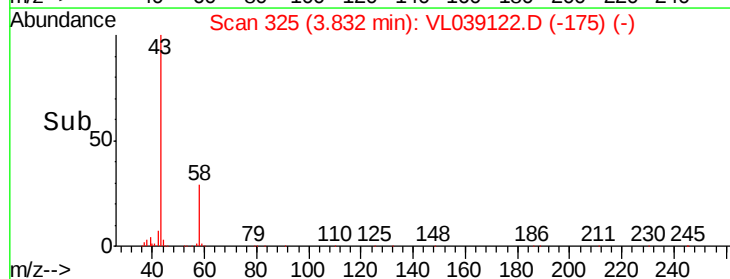
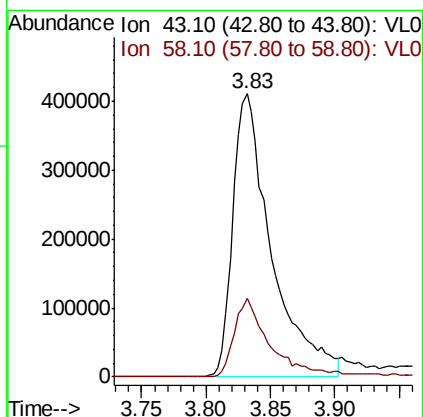
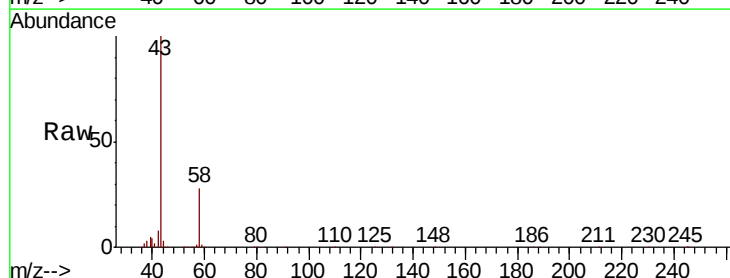
#13
Ethanol
Concen: 18.202 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 May 2022 18:00

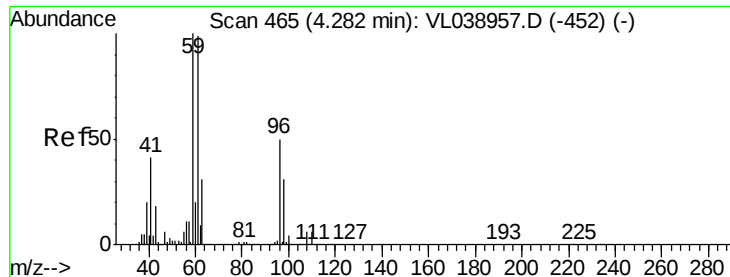
Tot Ion: 45 Resp: 62704
Ion Ratio Lower Upper
45 100
46 54.3 18.0 72.2



#15
Acetone
Concen: 10.127 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL039122.D
Acq: 25 May 2022 18:00

Tgt Ion: 43 Resp: 858167
Ion Ratio Lower Upper
43 100
58 27.6 21.3 31.9





#17

tert-Butyl alcohol

Concen: 0.089 ppbv

RT: 4.28 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

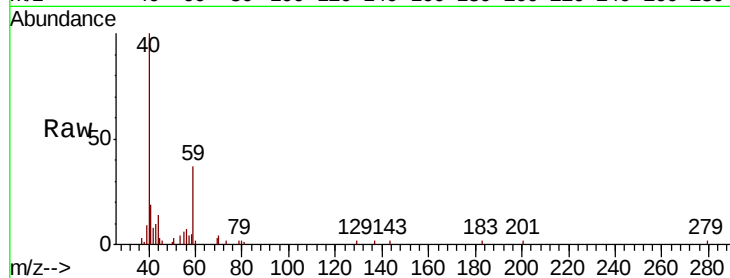
Acq: 25 May 2022 18:00

Tot Ion: 59 Resp: 5826

Ion Ratio Lower Upper

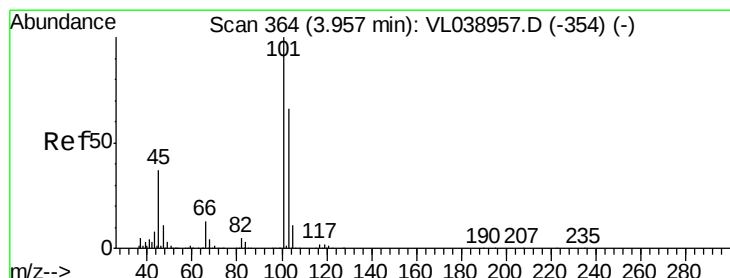
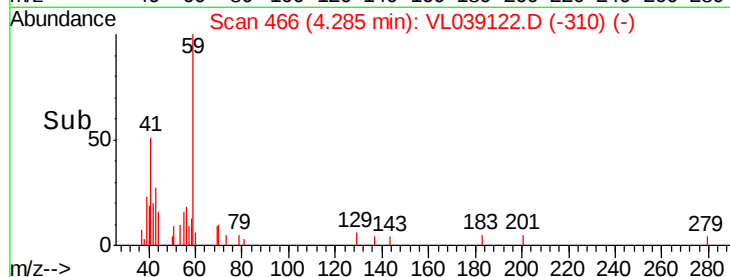
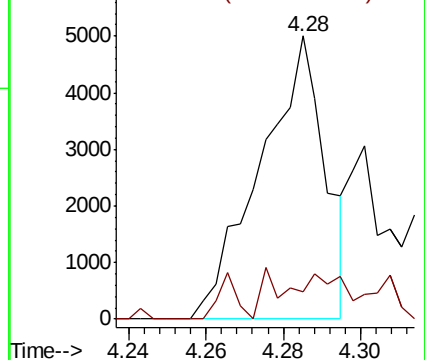
59 100

57 31.0 9.2 13.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.346 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL039122.D

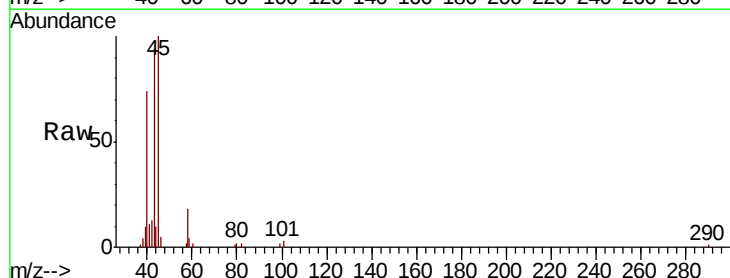
Acq: 25 May 2022 18:00

Tgt Ion: 45 Resp: 13928

Ion Ratio Lower Upper

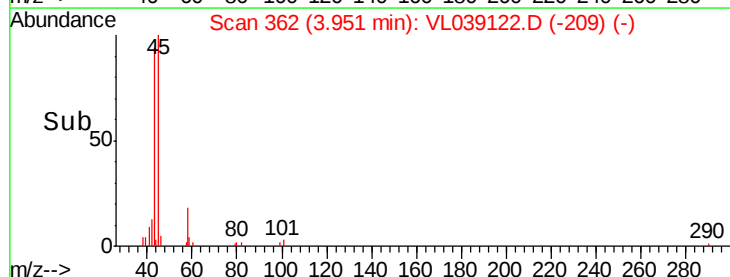
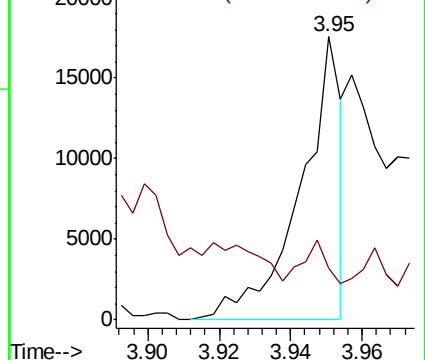
45 100

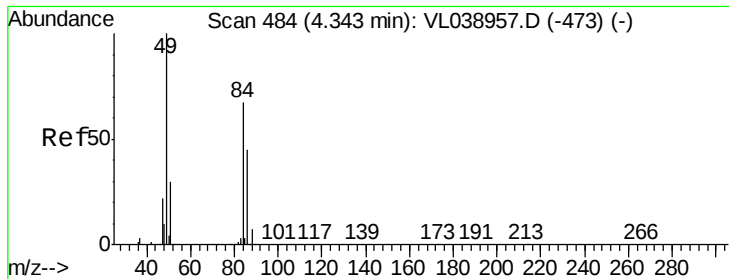
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

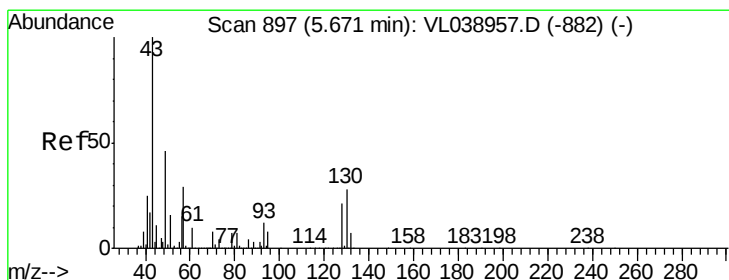
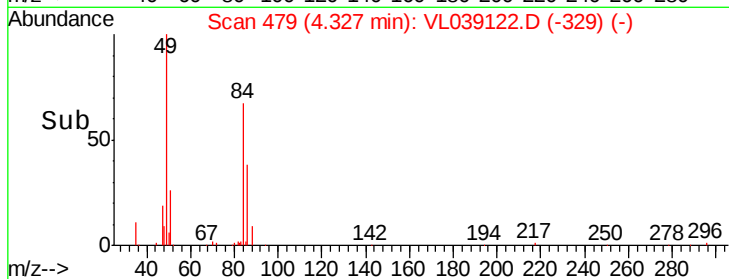
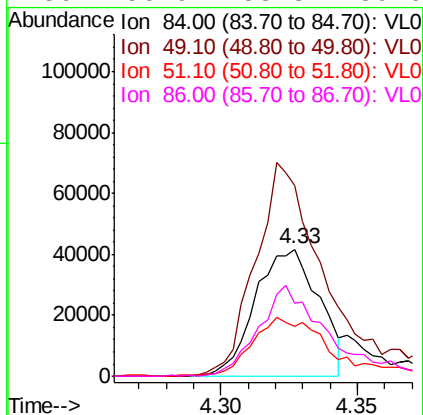
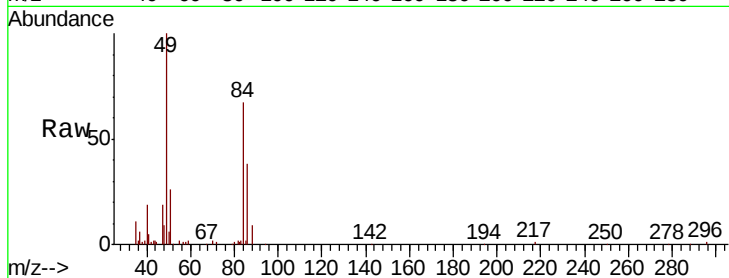
Ion 58.10 (57.80 to 58.80): VL0





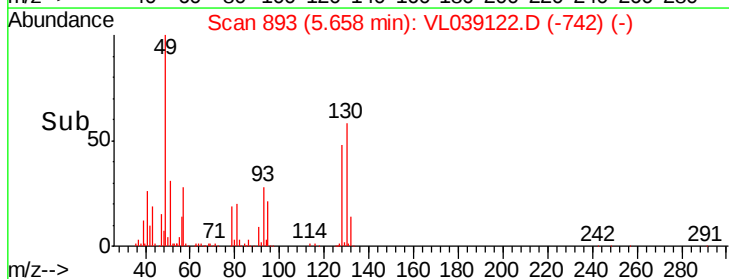
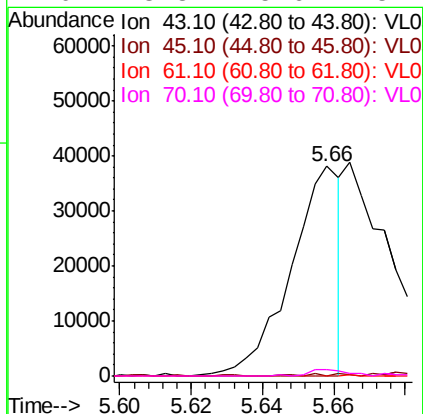
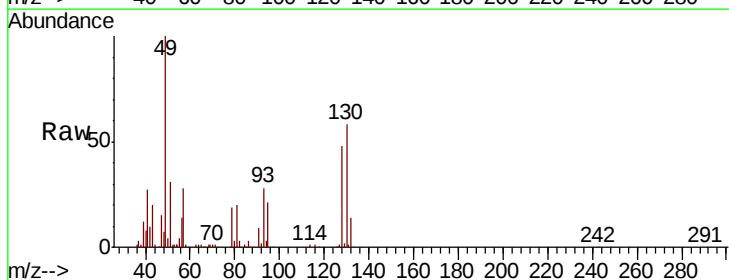
#20
Methvlene Chloride
Concen: 2.113 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 May 2022 18:00

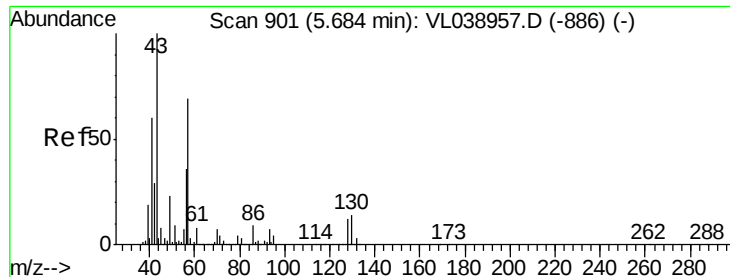
Tot Ion:	84	Resp:	67479
Ion	Ratio	Lower	Upper
84	100		
49	149.5	119.9	179.9
51	38.2	35.7	53.5
86	56.9	53.8	80.6



#25
Ethyl Acetate
Concen: 0.182 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL039122.D
Acq: 25 May 2022 18:00

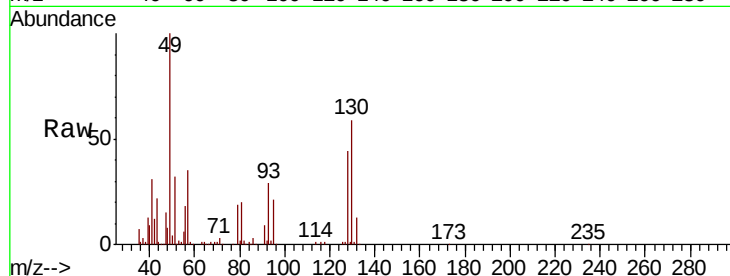
Tgt Ion:	43	Resp:	36836
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.8	11.6#
70	3.8	5.6	8.4#



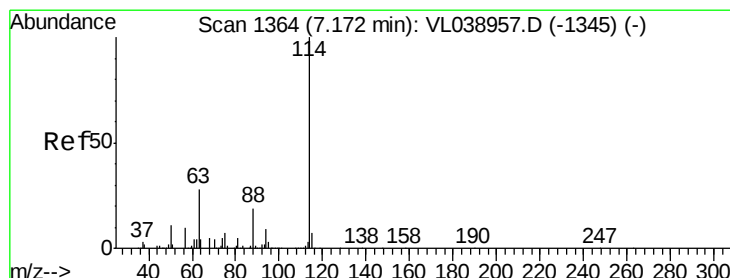
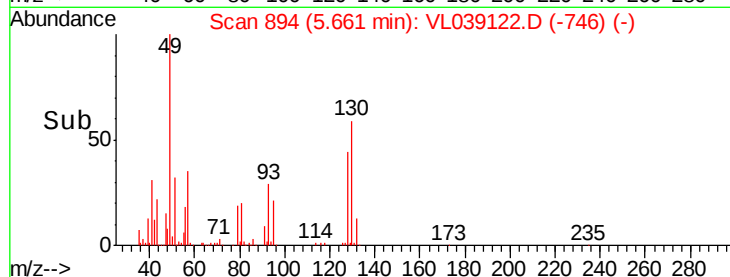
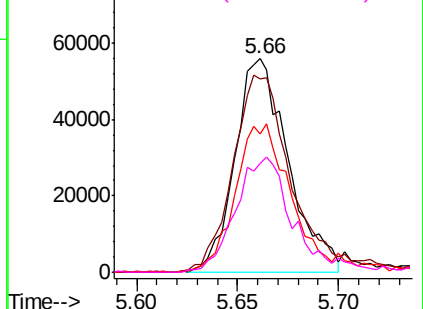


#26
Hexane
Concen: 1.149 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 May 2022 18:00

Tot Ion:	57	Resp:	103558
Ion	Ratio	Lower	Upper
57	100		
41	105.2	75.2	112.8
43	77.7	190.8	286.2#
56	59.4	43.0	64.6

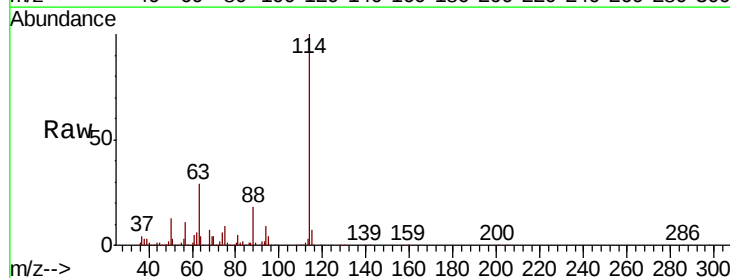


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

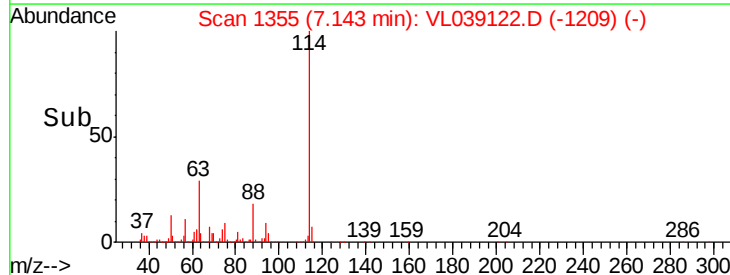
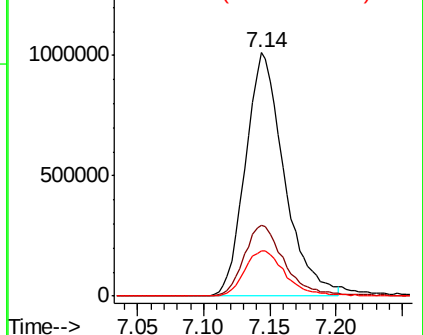


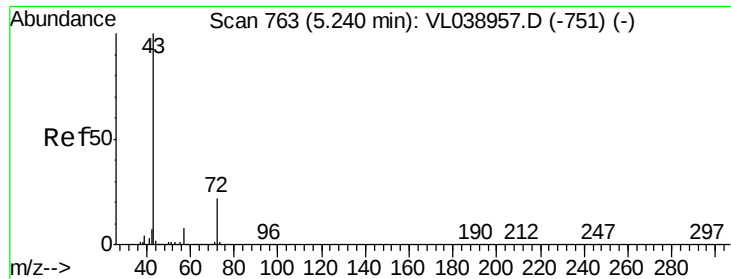
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.03 min
Lab File: VL039122.D
Acq: 25 May 2022 18:00

Tgt Ion:	114	Resp:	2059908
Ion	Ratio	Lower	Upper
114	100		
63	30.6	22.6	33.8
88	19.8	15.4	23.0



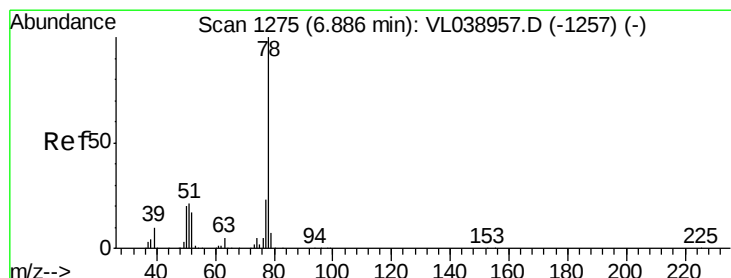
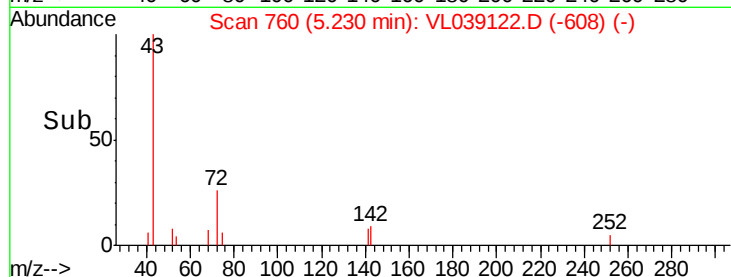
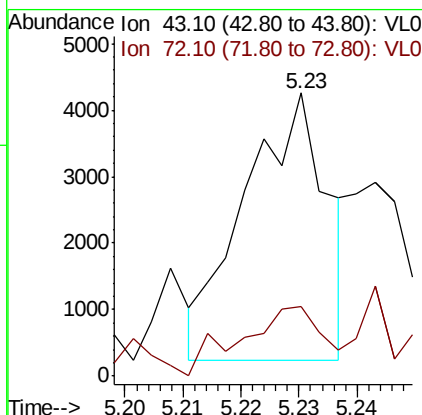
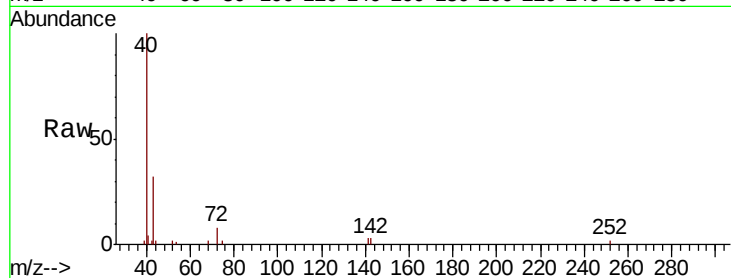
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





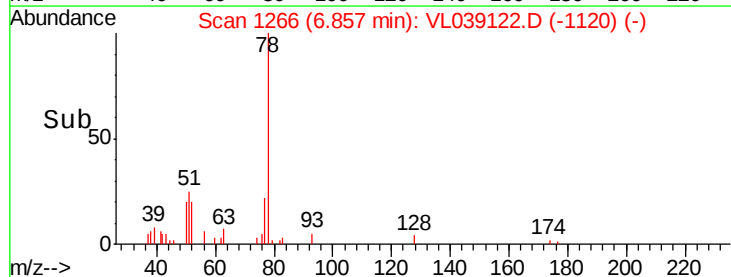
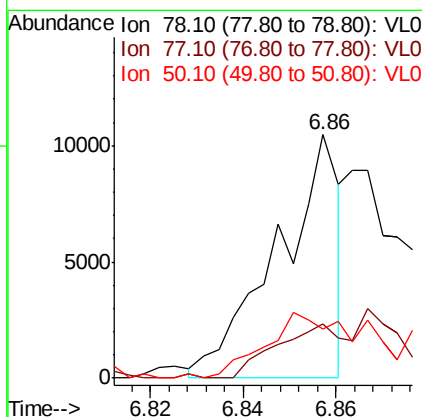
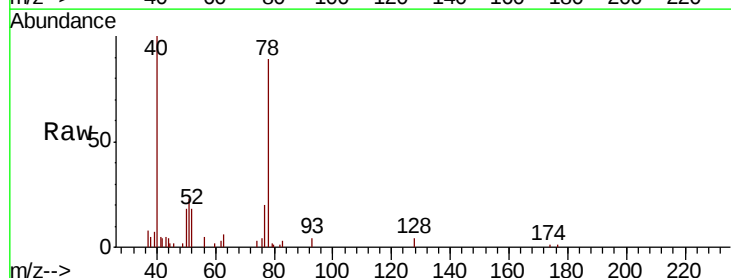
#34
 2-Butanone
 Concen: 0.038 ppbv
 RT: 5.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 25 May 2022 18:00

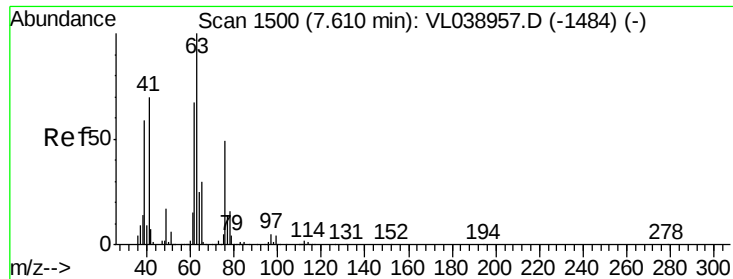
Tot Ion: 43 Resp: 3968
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



#36
 Benzene
 Concen: 0.055 ppbv
 RT: 6.86 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VL039122.D
 Acq: 25 May 2022 18:00

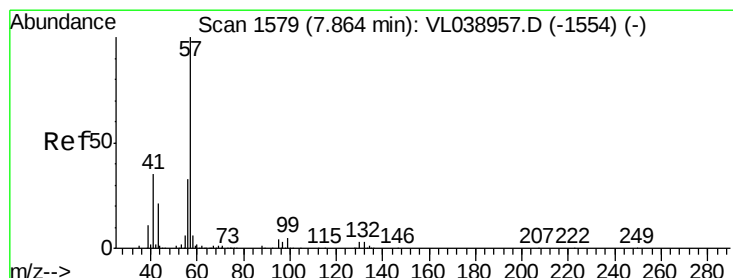
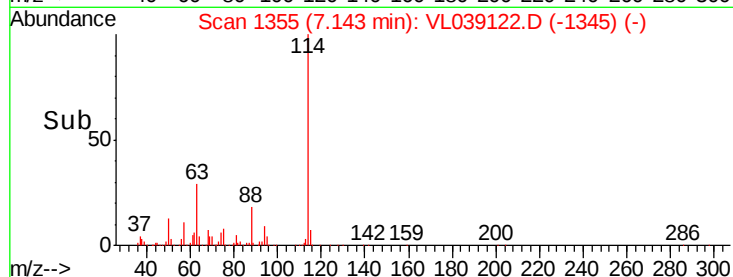
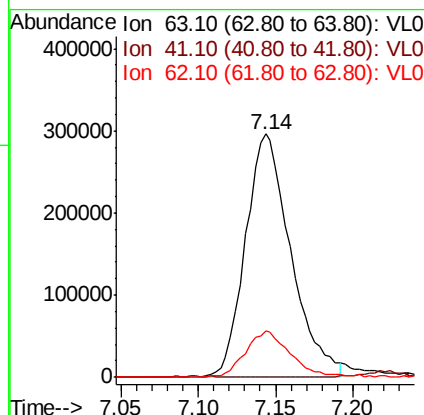
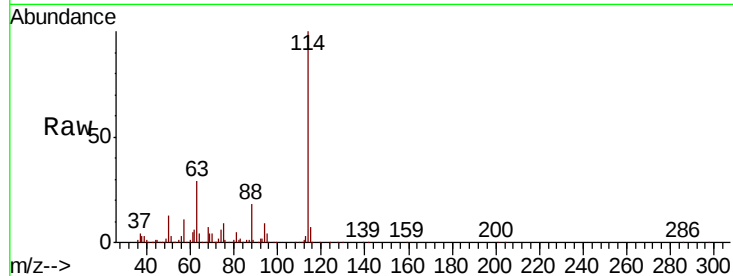
Tgt Ion: 78 Resp: 9703
 Ion Ratio Lower Upper
 78 100
 77 21.5 18.6 28.0
 50 19.2 15.6 23.4





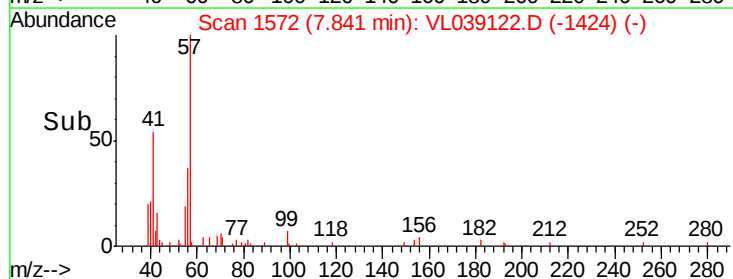
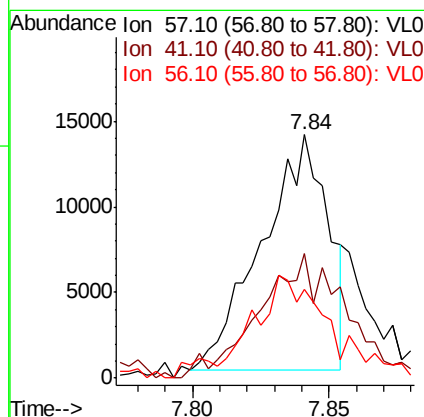
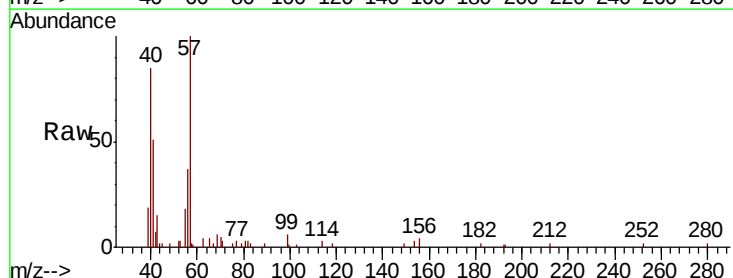
#39
 1,2-Dichloropropane
 Concen: 8.816 ppbv
 RT: 7.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 May 2022 18:00

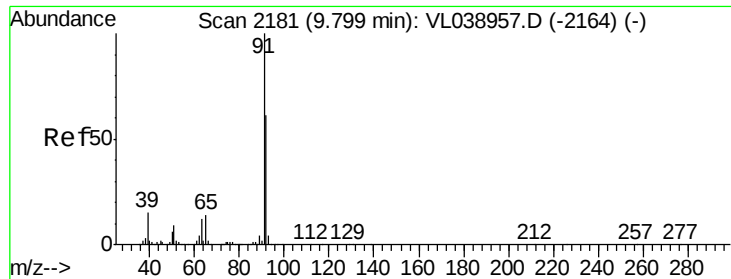
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	19.2	53.8	80.6#



#44
 2,2,4-Trimethylpentane
 Concen: 0.075 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.02 min
 Lab File: VL039122.D
 Acq: 25 May 2022 18:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	70.7	26.3	39.5#
56	56.6	24.6	37.0#





#53

Toluene

Concen: 0.221 ppbv

RT: 9.77 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

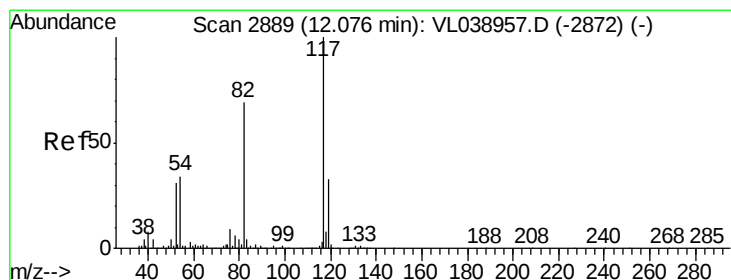
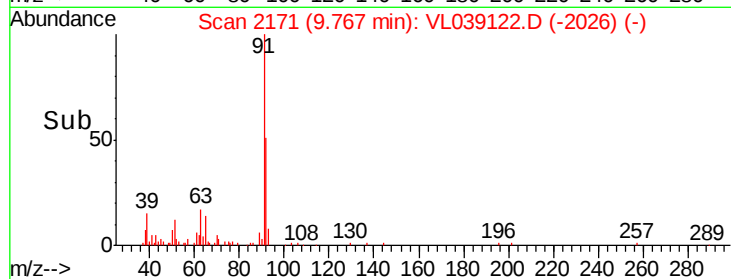
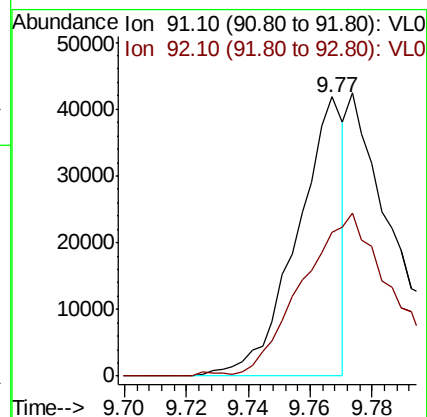
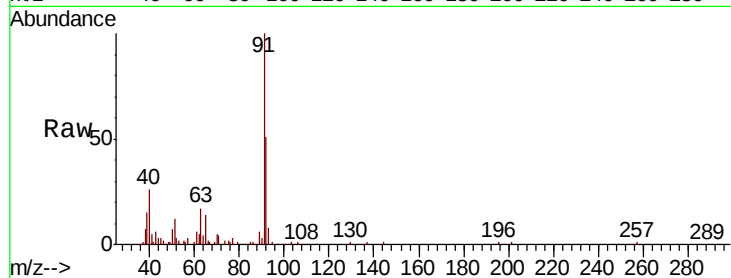
Acq: 25 May 2022 18:00

Tot Ion: 91 Resp: 43716

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2880

Delta R.T. -0.03 min

Lab File: VL039122.D

Acq: 25 May 2022 18:00

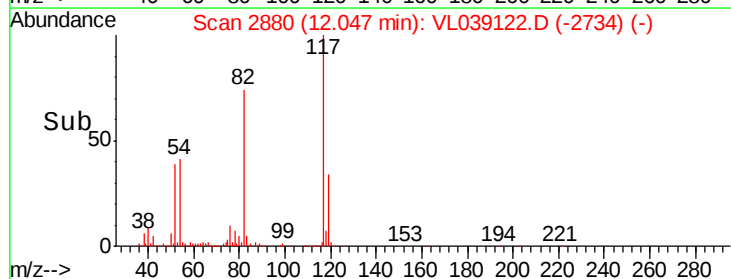
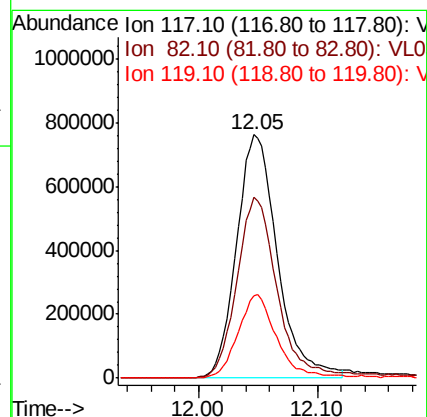
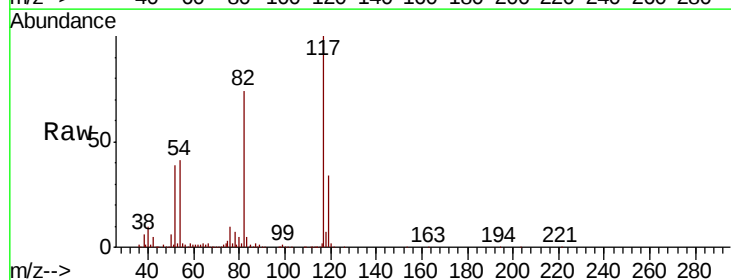
Tgt Ion: 117 Resp: 1807416

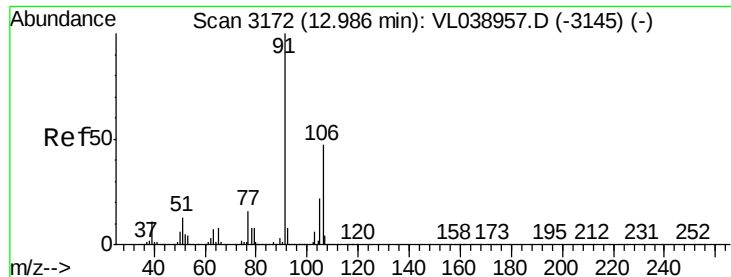
Ion Ratio Lower Upper

117 100

82 76.8 57.0 85.6

119 33.6 27.2 40.8





#59

m/p-Xylene

Concen: 0.053 ppbv

RT: 12.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

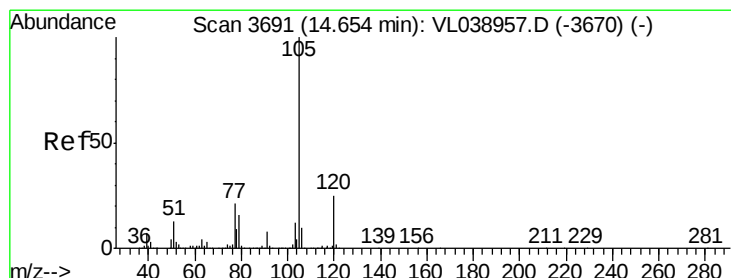
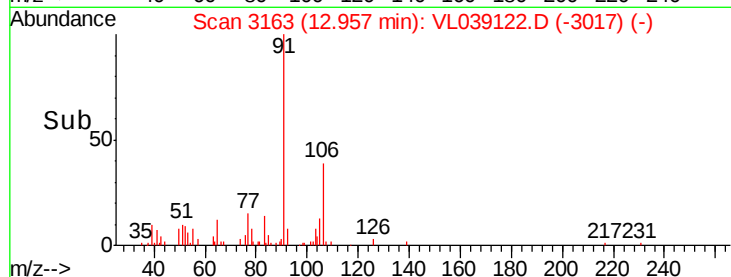
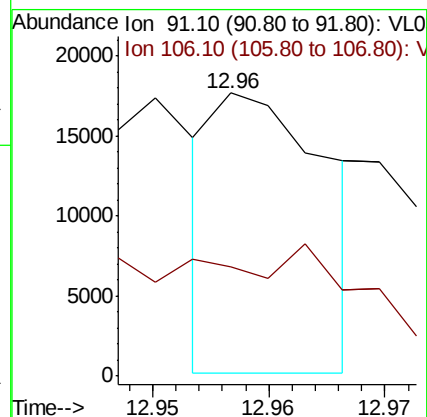
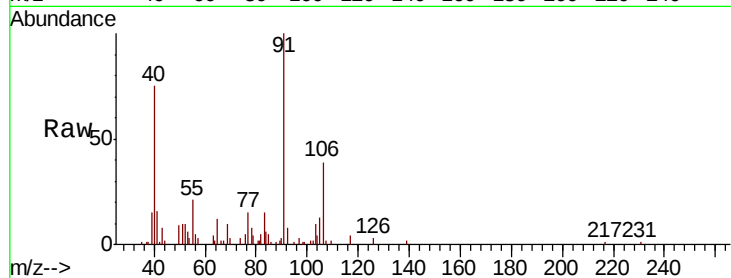
Acq: 25 May 2022 18:00

Tot Ion: 91 Resp: 11822

Ion Ratio Lower Upper

91 100

106 0.0 34.6 52.0#



#62

Isopropylbenzene

Concen: 0.074 ppbv

RT: 14.62 min Scan# 3680

Delta R.T. -0.04 min

Lab File: VL039122.D

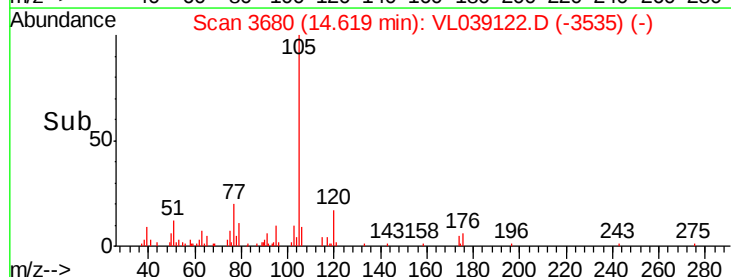
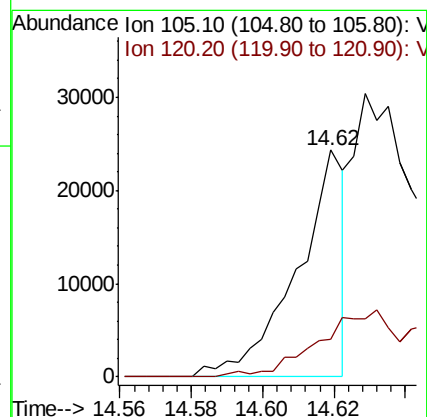
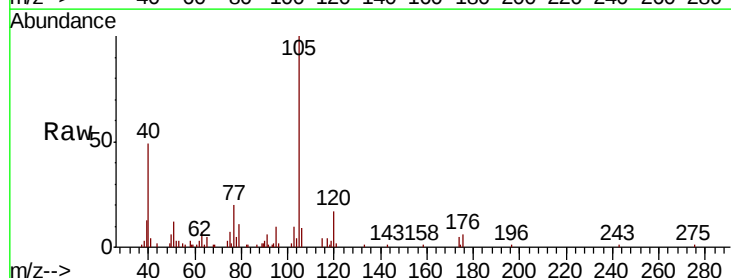
Acq: 25 May 2022 18:00

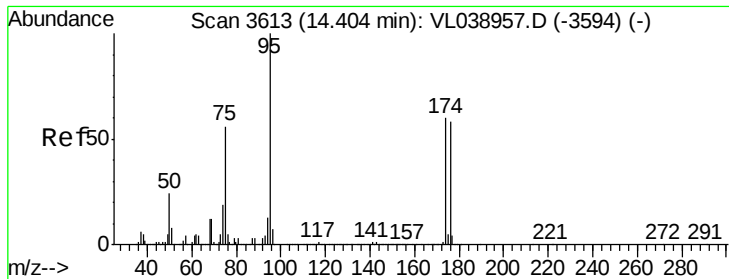
Tgt Ion: 105 Resp: 22595

Ion Ratio Lower Upper

105 100

120 0.0 20.5 30.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.774 ppbv

RT: 14.38

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 May 2022 18:00

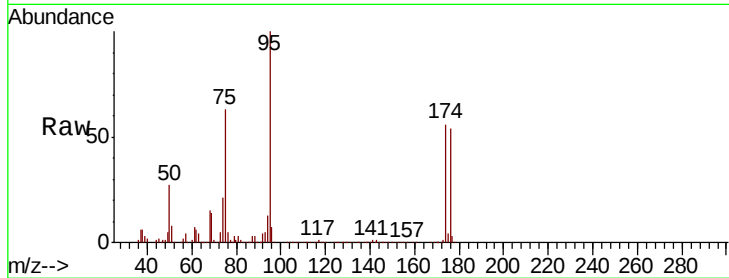
Tot Ion: 95 Resp: 1542102

Ion Ratio Lower Upper

95 100

174 62.5 50.8 76.2

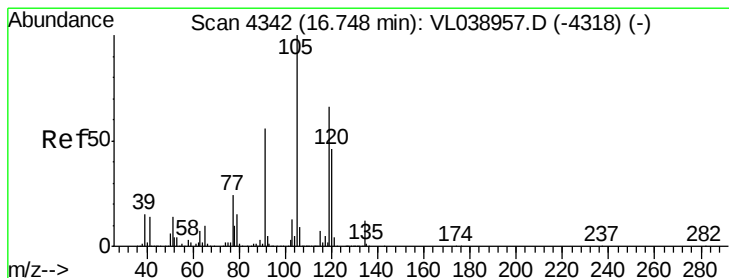
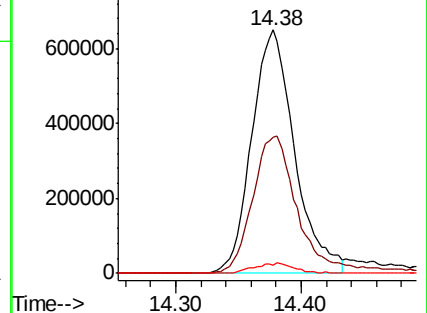
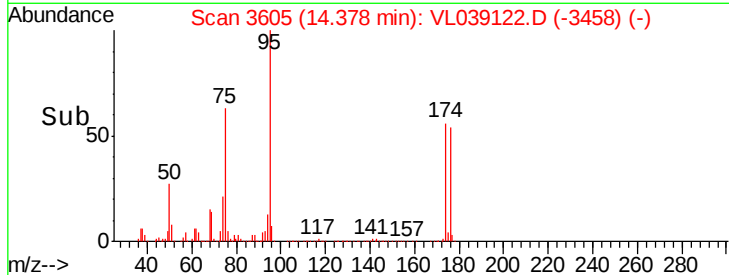
175 4.2 3.8 5.6



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



#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

RT: 16.72 min Scan# 4333

Delta R.T. -0.03 min

Lab File: VL039122.D

Acq: 25 May 2022 18:00

Tgt Ion:105 Resp: 8125

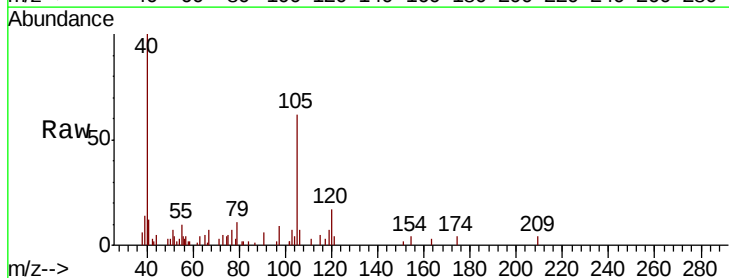
Ion Ratio Lower Upper

105 100

120 23.6 36.9 55.3#

91 10.2 45.0 67.4#

77 5.6 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

