

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038720.D
 Acq On : 23 Mar 2022 17:50
 Operator : SY/AP
 Sample : N2047-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA0DL

Quant Time: Mar 24 04:34:30 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	920159	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2456879	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2087547	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1482166	9.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.60%

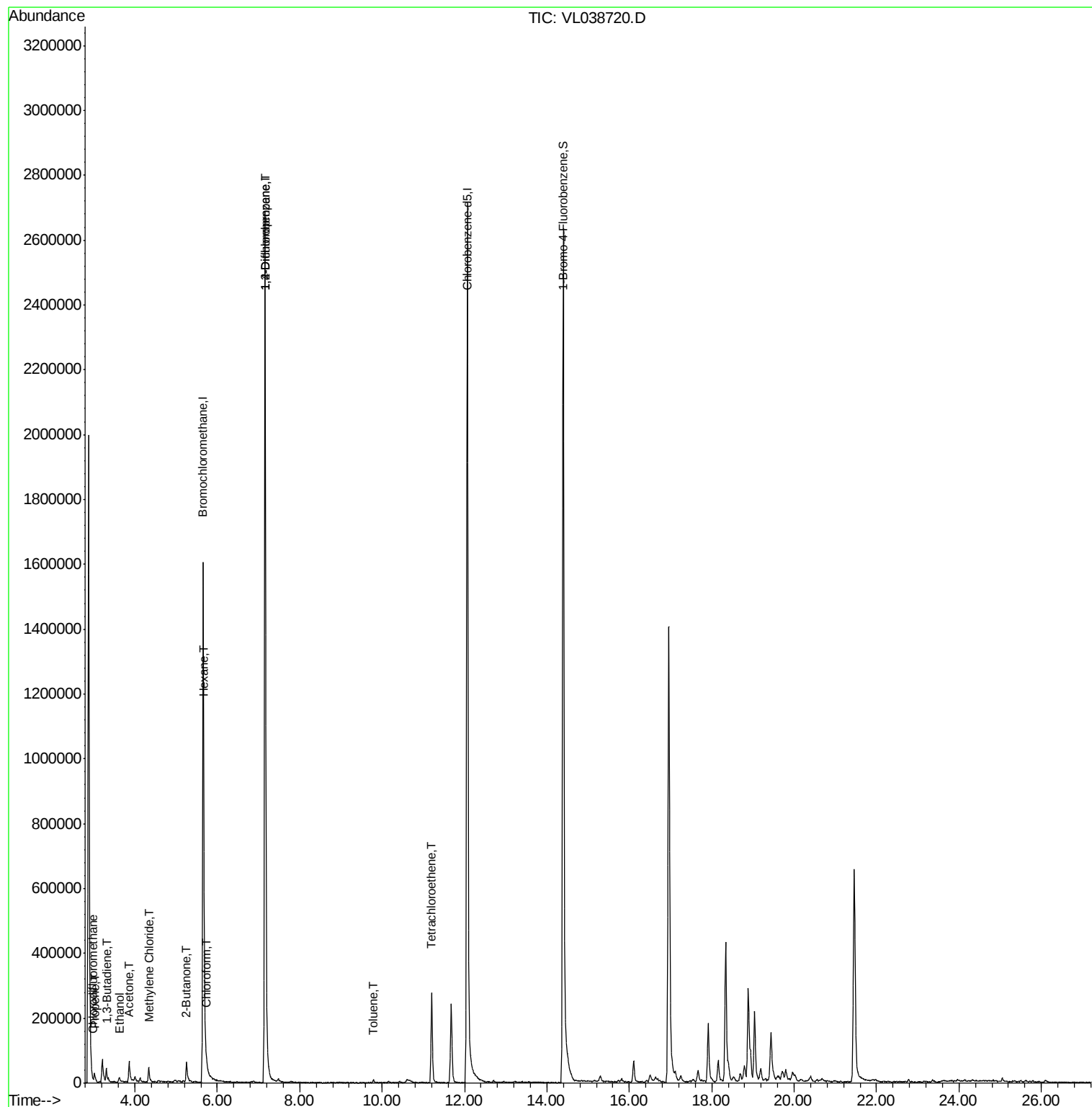
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	3758	0.039	ppbv #	70
9) Propene	3.01	41	7653	0.163	ppbv #	75
13) Ethanol	3.61	45	7110	1.374	ppbv #	1
15) Acetone	3.85	43	87679	1.104	ppbv #	80
16) 1,3-Butadiene	3.30	39	11842	0.263	ppbv #	14
20) Methylene Chloride	4.33	84	18648	0.558	ppbv	96
26) Hexane	5.68	57	6538	0.073	ppbv #	1
29) Chloroform	5.74	83	4956	0.035	ppbv	92
34) 2-Butanone	5.25	43	92664	0.953	ppbv	95
39) 1,2-Dichloropropane	7.16	63	560716	7.564	ppbv #	29
52) Tetrachloroethene	11.20	164	79535	1.146	ppbv	92
53) Toluene	9.79	91	7665	0.038	ppbv	96

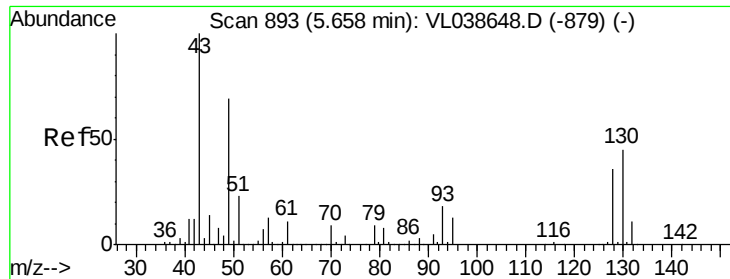
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
C0PA0DL

Quant Time: Mar 24 04:34:30 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COPA0DL

Acq: 23 Mar 2022 17:50

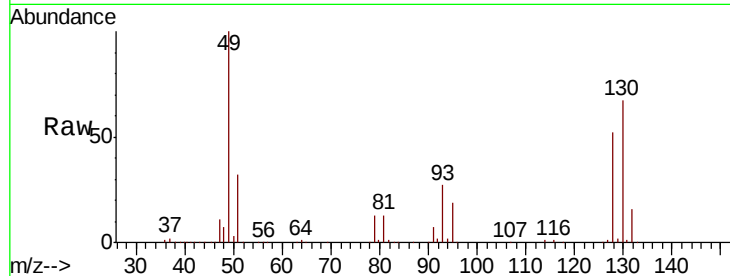
Tot Ion: 49 Resp: 920159

Ion Ratio Lower Upper

49 100

128 56.6 26.2 78.6

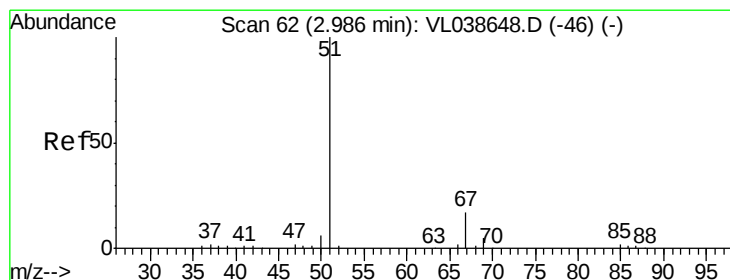
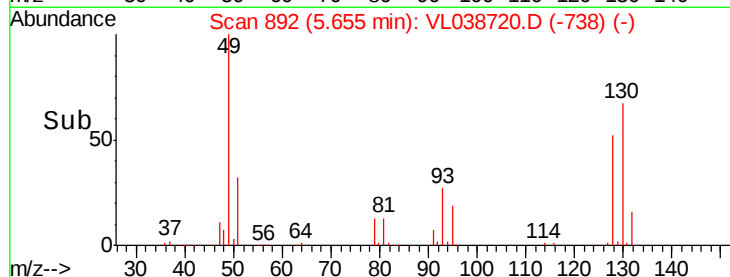
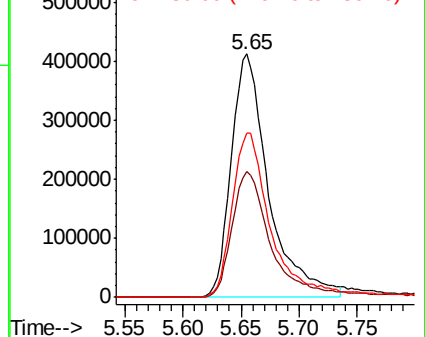
130 73.1 33.7 101.1



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: 0.039 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL038720.D

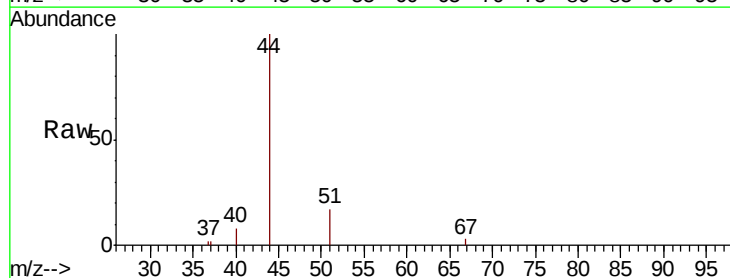
Acq: 23 Mar 2022 17:50

Tgt Ion: 51 Resp: 3758

Ion Ratio Lower Upper

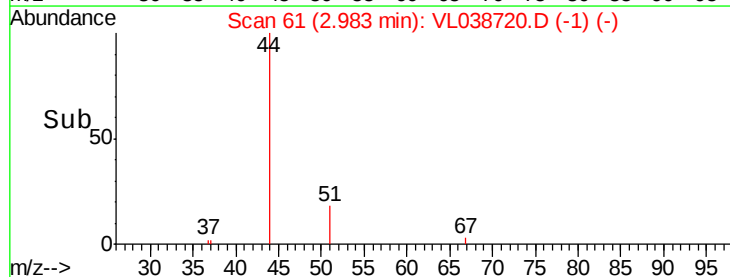
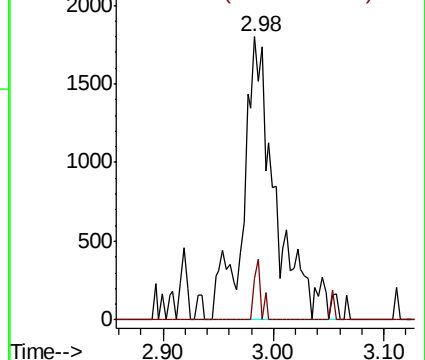
51 100

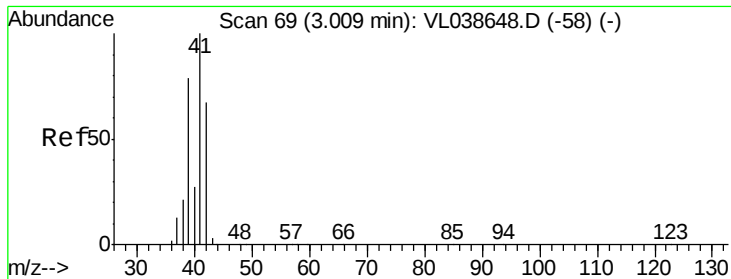
67 4.3 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.163 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

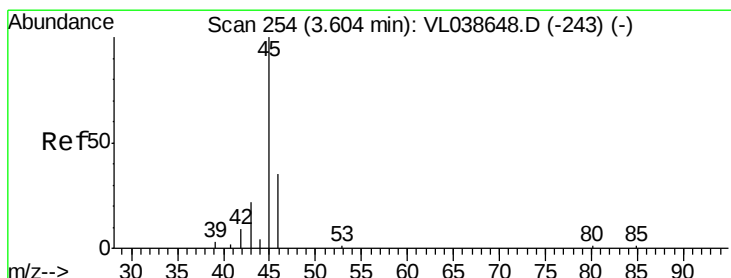
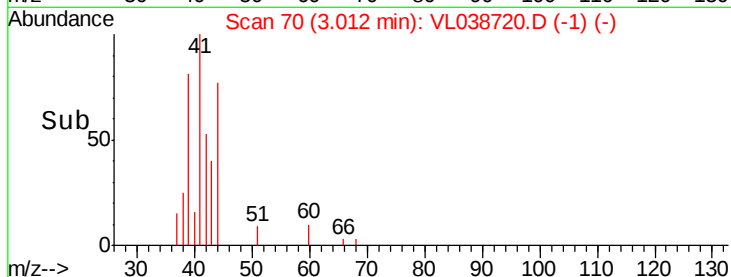
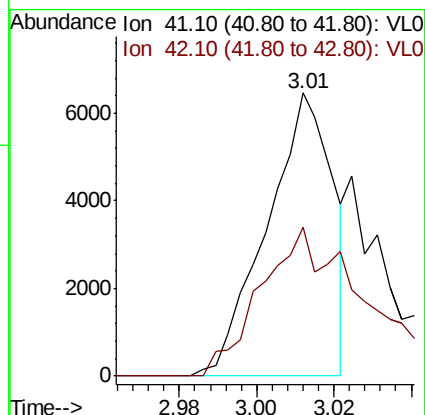
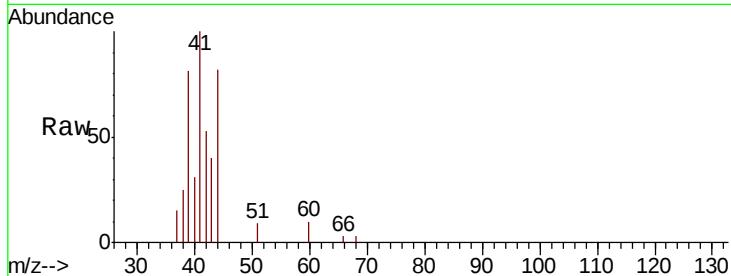
Acq: 23 Mar 2022 17:50

Tot Ion: 41 Resp: 7653

Ion Ratio Lower Upper

41 100

42 90.5 56.2 84.4#



#13

Ethanol

Concen: 1.374 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL038720.D

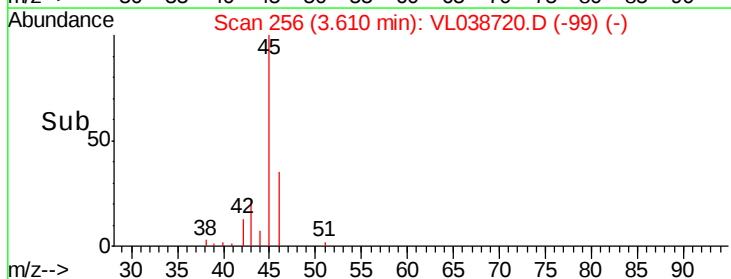
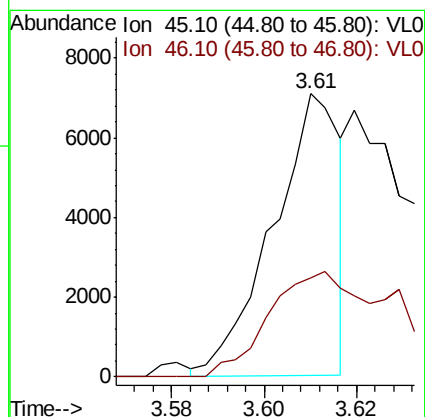
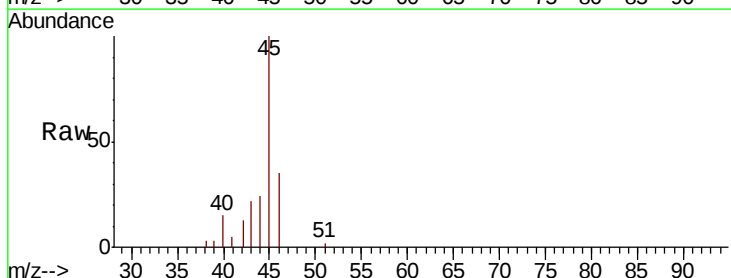
Acq: 23 Mar 2022 17:50

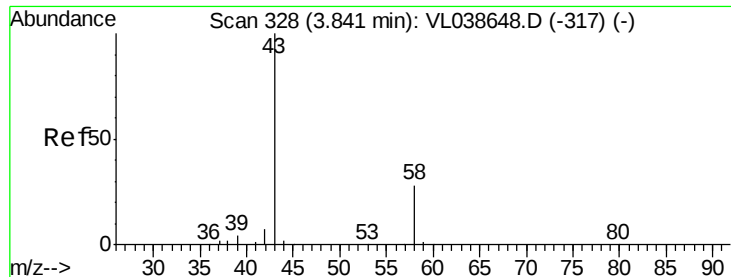
Tgt Ion: 45 Resp: 7110

Ion Ratio Lower Upper

45 100

46 98.4 15.1 60.5#





#15

Acetone

Concen: 1.104 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

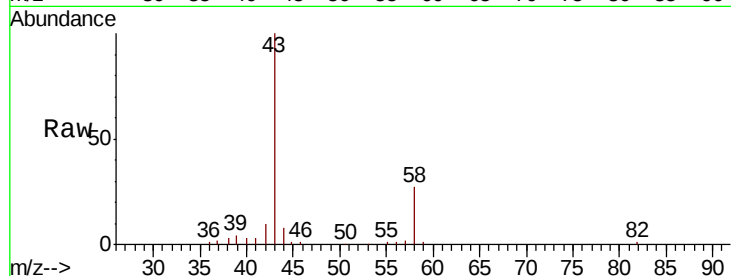
Acq: 23 Mar 2022 17:50

Tot Ion: 43 Resp: 87679

Ion Ratio Lower Upper

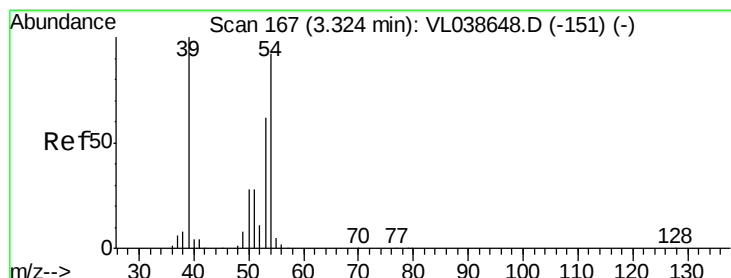
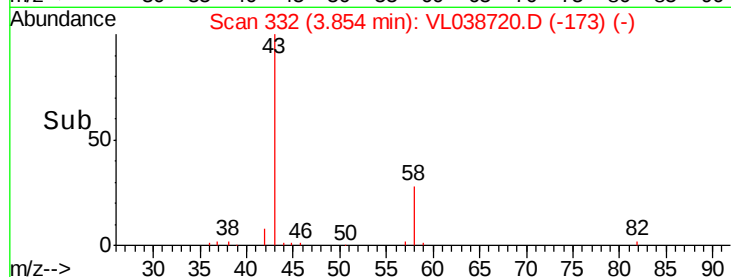
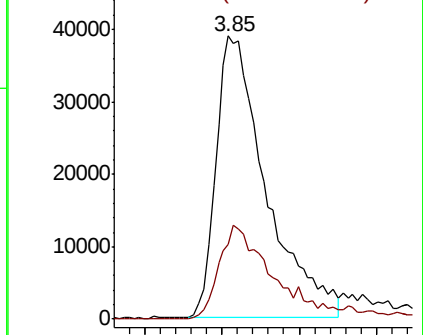
43 100

58 39.9 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.263 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL038720.D

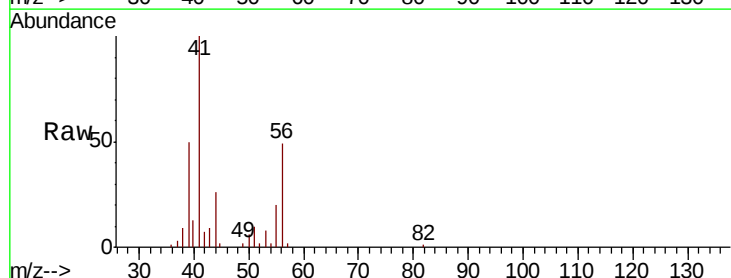
Acq: 23 Mar 2022 17:50

Tgt Ion: 39 Resp: 11842

Ion Ratio Lower Upper

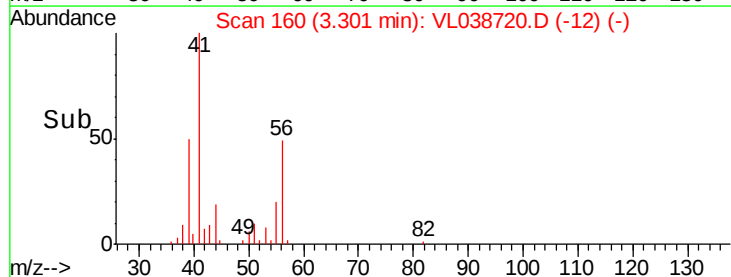
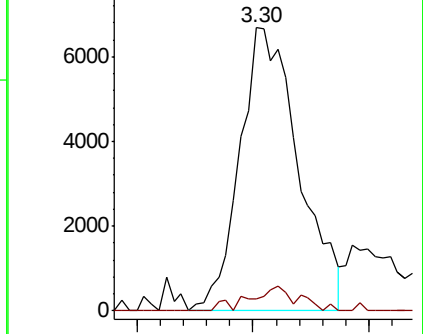
39 100

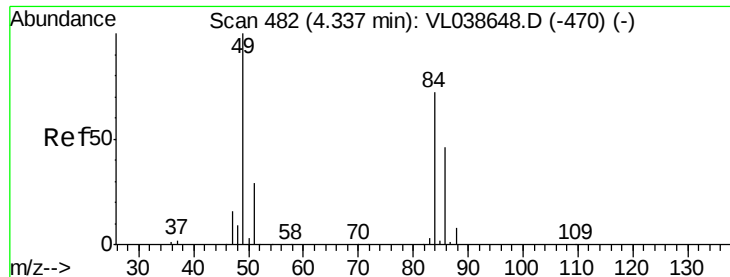
54 7.5 69.1 103.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

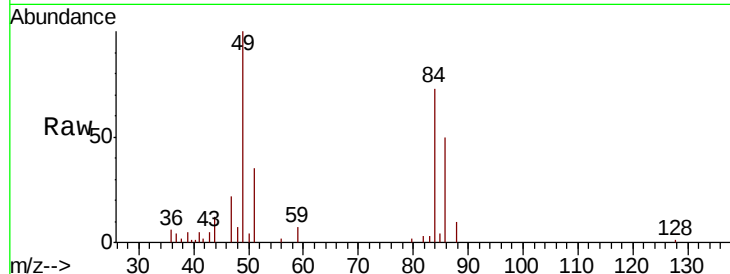
Ion 54.10 (53.80 to 54.80): VL0





#20
Methvlene Chloride
Concen: 0.558 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 17:50

Tot Ion	84	Resp	18648
Ion	Ratio	Lower	Upper
84	100		
49	137.8	111.2	166.8
51	47.8	32.8	49.2
86	68.3	51.4	77.0



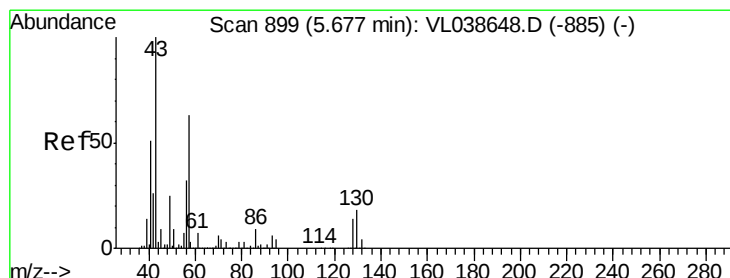
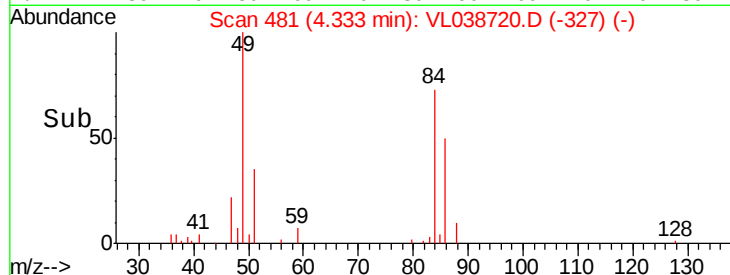
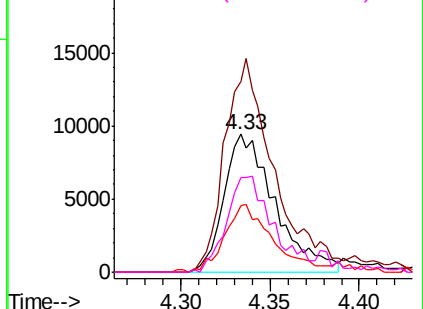
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

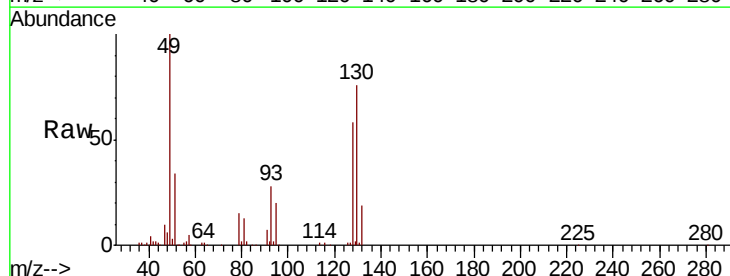
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 0.073 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL038720.D
Acq: 23 Mar 2022 17:50

Tgt Ion	57	Resp	6538
Ion	Ratio	Lower	Upper
57	100		
41	157.9	67.0	100.4#
43	0.0	184.2	276.2#
56	89.2	42.6	64.0#



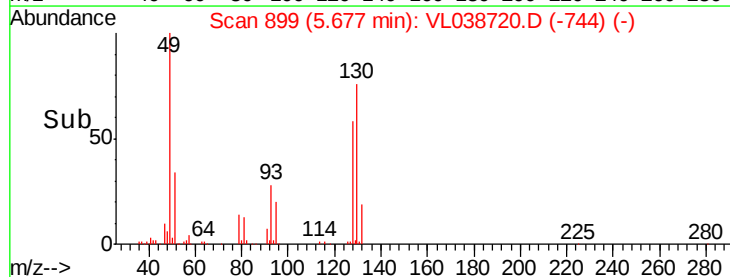
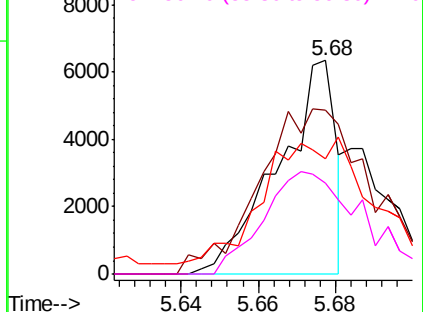
Abundance

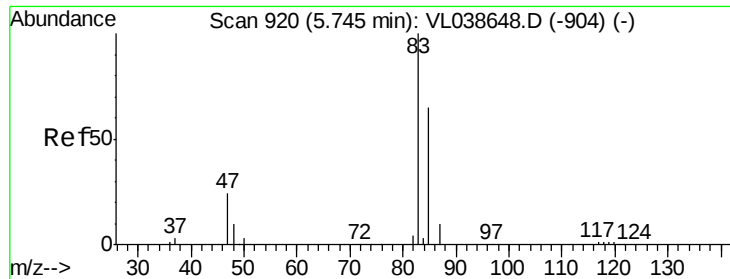
Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.035 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

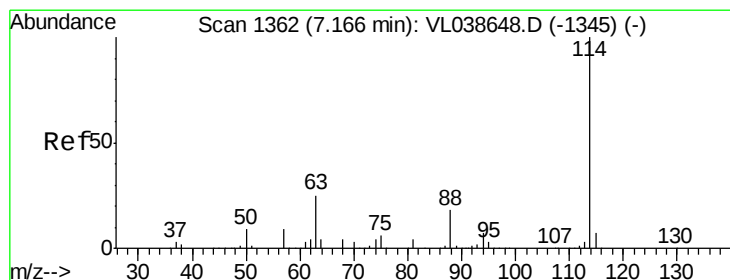
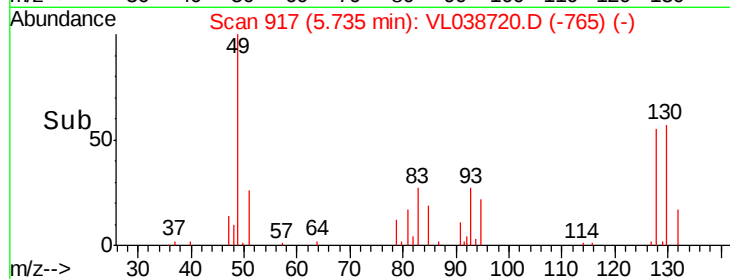
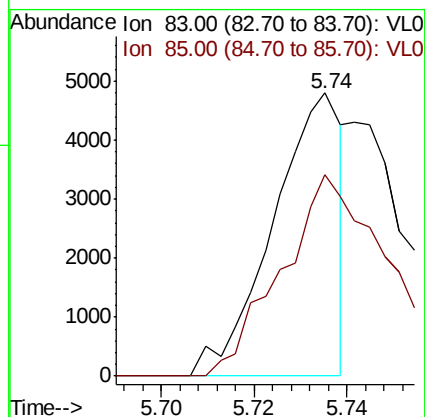
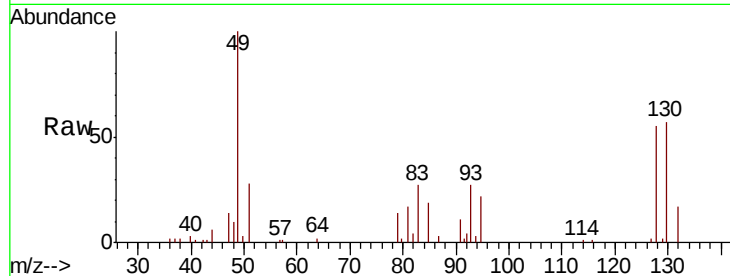
Acq: 23 Mar 2022 17:50

Tot Ion: 83 Resp: 4956

Ion Ratio Lower Upper

83 100

85 71.1 51.7 77.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL038720.D

Acq: 23 Mar 2022 17:50

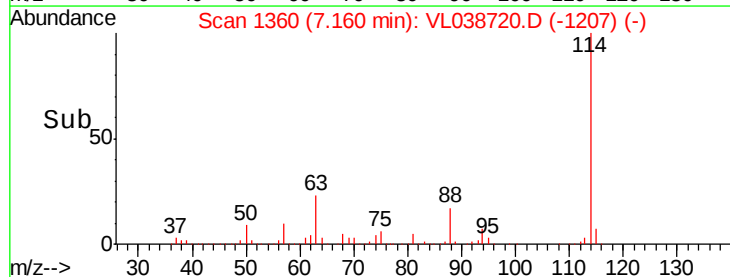
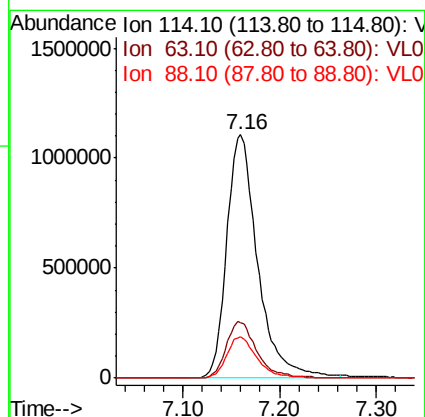
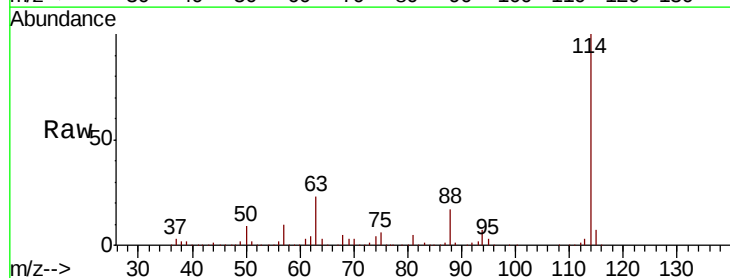
Tgt Ion: 114 Resp: 2456879

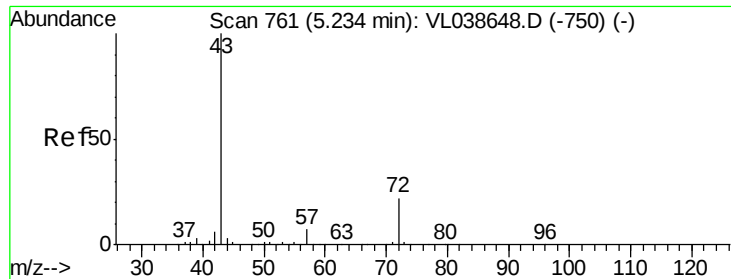
Ion Ratio Lower Upper

114 100

63 23.5 19.4 29.0

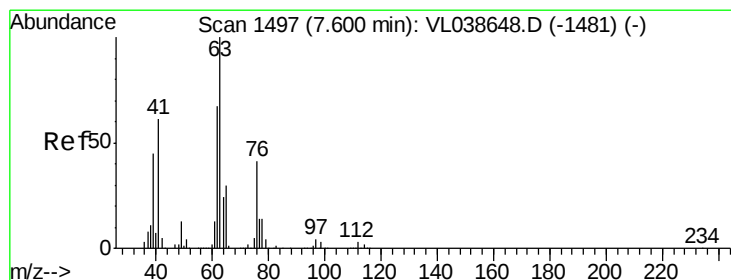
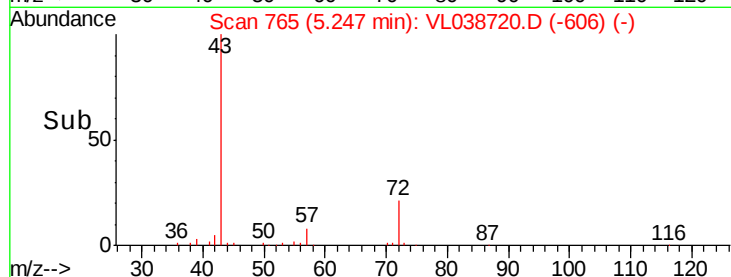
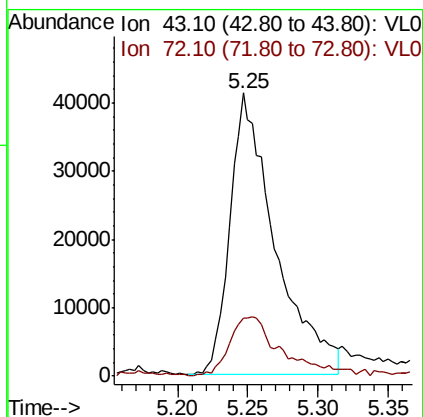
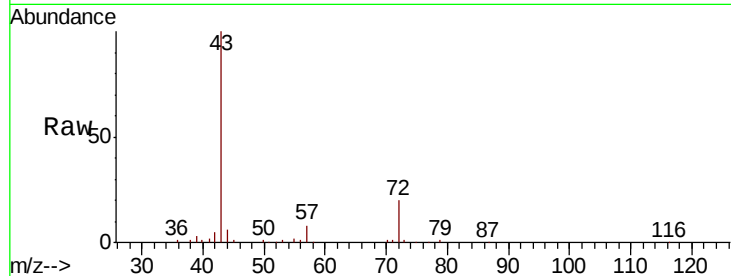
88 17.1 13.9 20.9





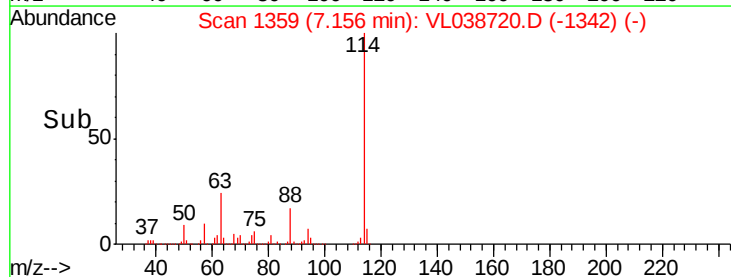
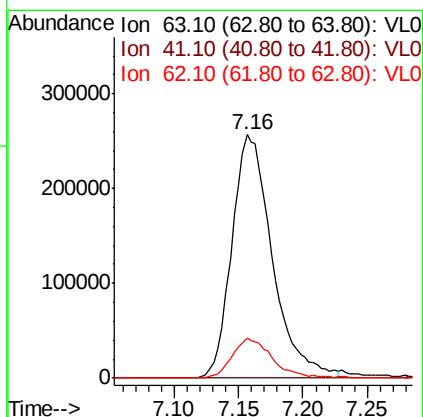
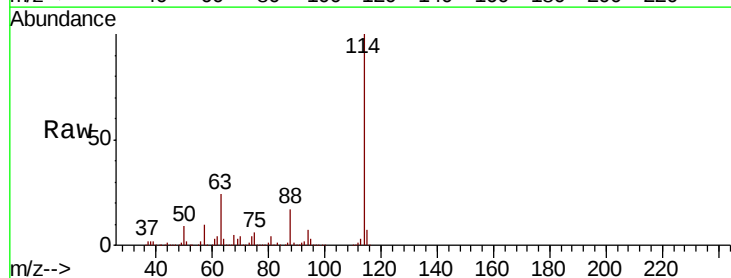
#34
 2-Butanone
 Concen: 0.953 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 17:50

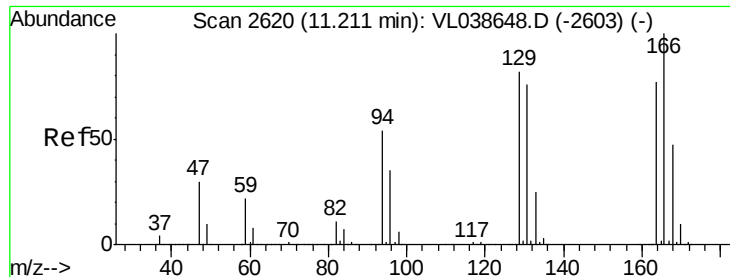
Tot Ion: 43 Resp: 92664
 Ion Ratio Lower Upper
 43 100
 72 24.6 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.564 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.44 min
 Lab File: VL038720.D
 Acq: 23 Mar 2022 17:50

Tgt Ion: 63 Resp: 560716
 Ion Ratio Lower Upper
 63 100
 41 0.1 49.0 73.6#
 62 16.2 53.9 80.9#





#52

Tetrachloroethene

Concen: 1.146 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 17:50

Tot Ion:164 Resp: 79535

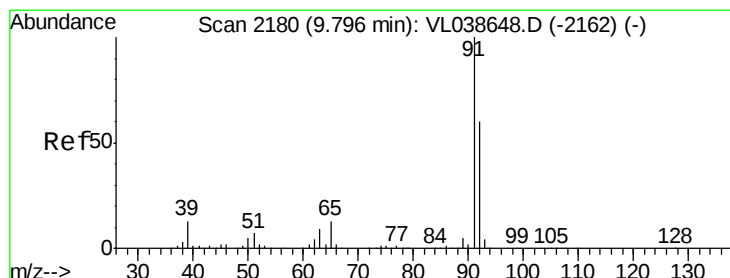
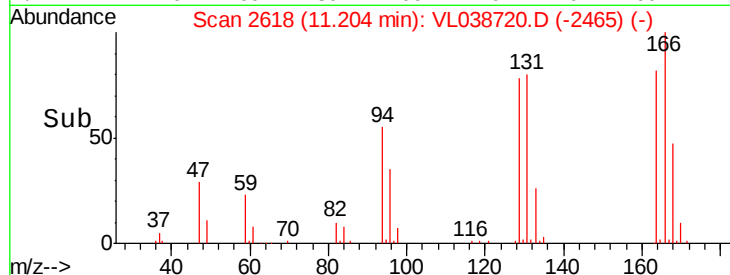
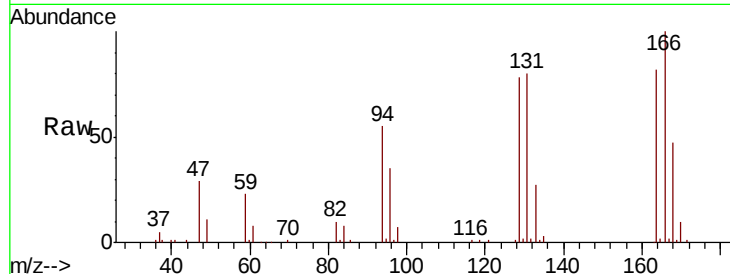
Ion Ratio Lower Upper

164 100

166 118.9 103.3 154.9

129 93.3 85.2 127.8

131 94.8 78.3 117.5



#53

Toluene

Concen: 0.038 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL038720.D

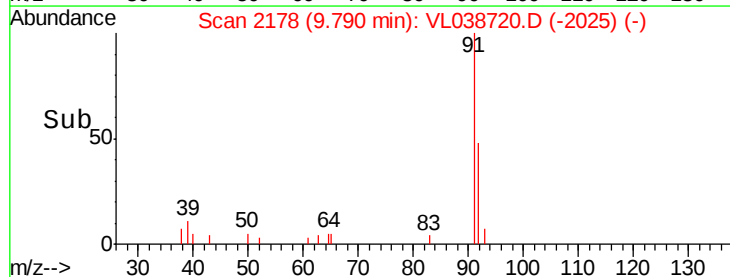
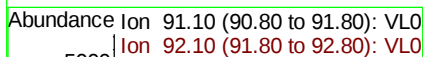
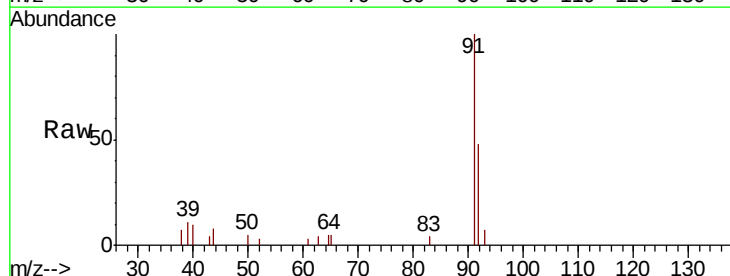
Acq: 23 Mar 2022 17:50

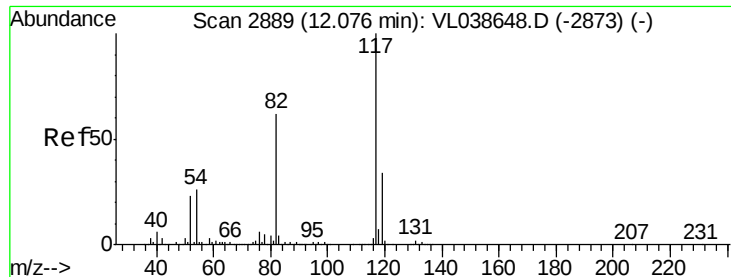
Tgt Ion: 91 Resp: 7665

Ion Ratio Lower Upper

91 100

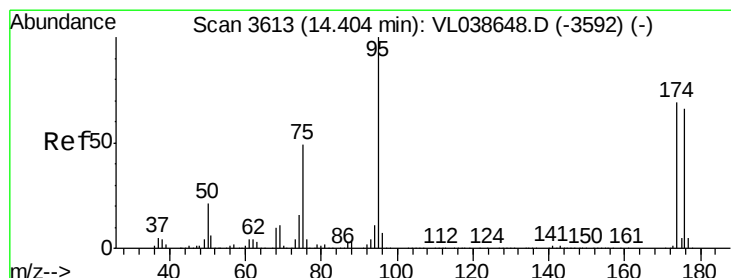
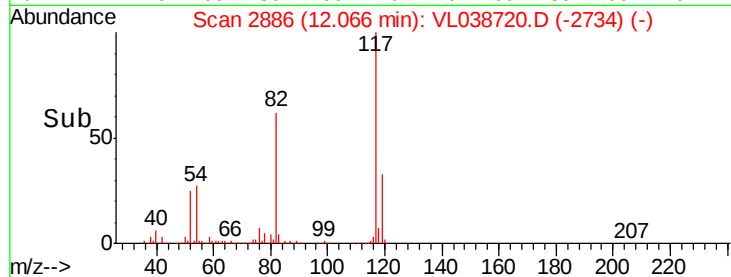
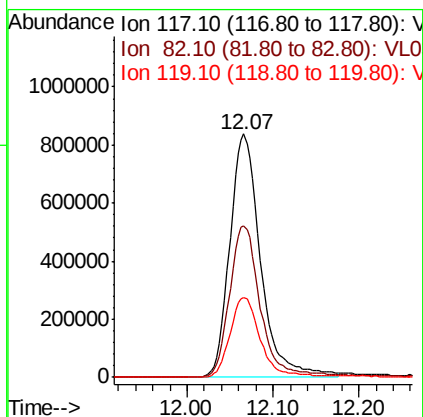
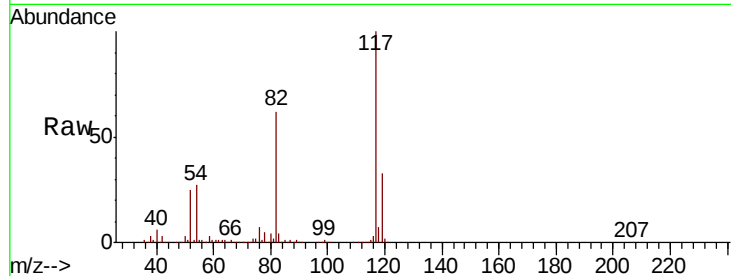
92 57.9 48.7 73.1





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 17:50

Tot Ion: 117 Resp: 2087547
 Ion Ratio Lower Upper
 117 100
 82 64.2 51.6 77.4
 119 33.4 26.9 40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.261 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.01 min
 Lab File: VL038720.D
 Acq: 23 Mar 2022 17:50

Tgt Ion: 95 Resp: 1482166
 Ion Ratio Lower Upper
 95 100
 174 72.4 56.1 84.1
 175 5.1 4.2 6.2

