

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038737.D
 Acq On : 24 Mar 2022 5:07
 Operator : SY/AP
 Sample : N2051-01DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 07:52:19 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	5.67	49	839432	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2294669	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1923897	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1420535	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

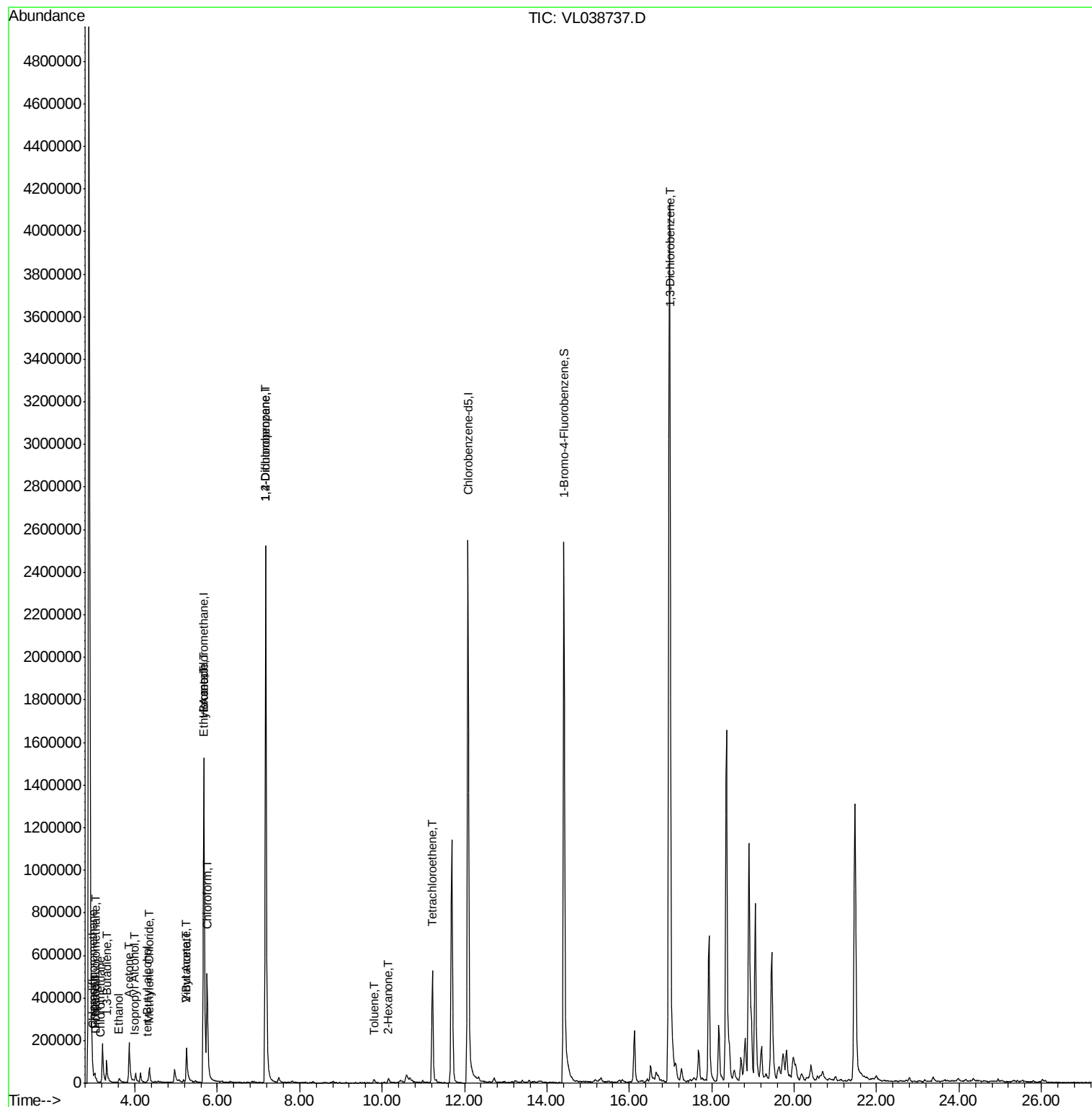
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	10762	0.095 ppbv	93
3) Chlorodifluoromethane	3.00	51	5806	0.065 ppbv #	88
4) Chloromethane	3.15	50	1583	0.033 ppbv #	85
9) Propene	3.02	41	9231	0.216 ppbv #	44
13) Ethanol	3.62	45	24010	5.085 ppbv	88
15) Acetone	3.86	43	261258	3.607 ppbv #	88
16) 1,3-Butadiene	3.32	39	27274	0.664 ppbv #	13
17) tert-Butyl alcohol	4.30	59	2944	0.047 ppbv #	73
19) Isopropyl Alcohol	3.99	45	4157	0.104 ppbv #	91
20) Methylene Chloride	4.35	84	26158	0.857 ppbv	90
23) Vinyl Acetate	5.25	43	252607	3.602 ppbv #	88
25) Ethyl Acetate	5.68	43	14200	0.078 ppbv #	84
26) Hexane	5.68	57	6659	0.082 ppbv #	2
29) Chloroform	5.75	83	396865	3.036 ppbv	95
34) 2-Butanone	5.25	43	252607	2.781 ppbv	93
39) 1,2-Dichloropropane	7.17	63	525792	7.594 ppbv #	29
51) 2-Hexanone	10.14	43	3747	0.031 ppbv #	27
52) Tetrachloroethene	11.22	164	145779	2.249 ppbv	97
53) Toluene	9.81	91	6245	0.033 ppbv #	20
75) 1,3-Dichlorobenzene	17.00	146	4733	0.034 ppbv #	23

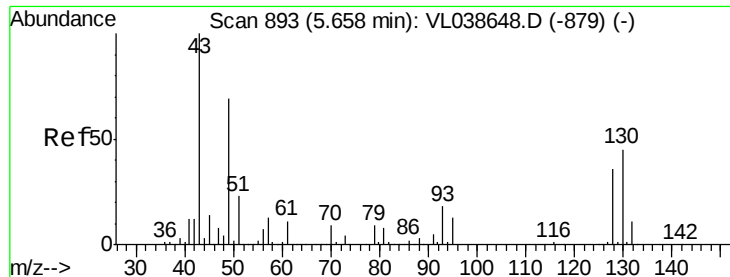
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 5:07

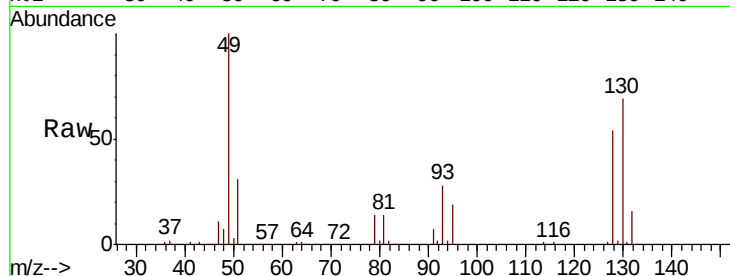
Tot Ion: 49 Resp: 839432

Ion Ratio Lower Upper

49 100

128 57.9 26.2 78.6

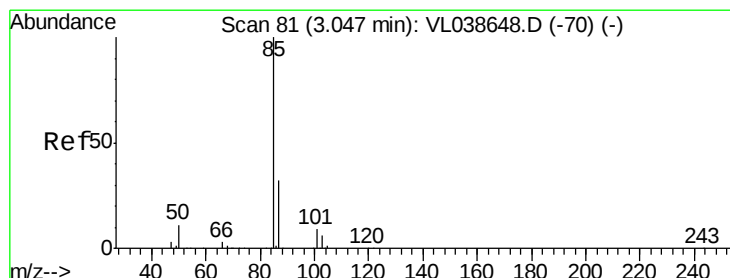
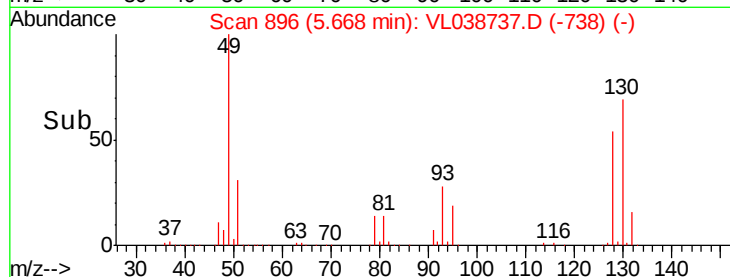
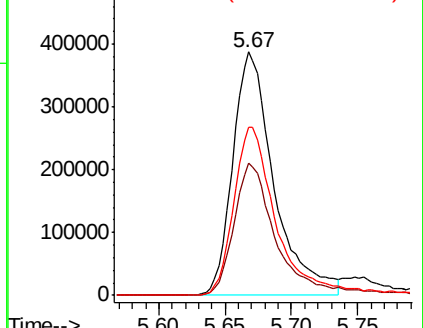
130 74.4 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.095 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038737.D

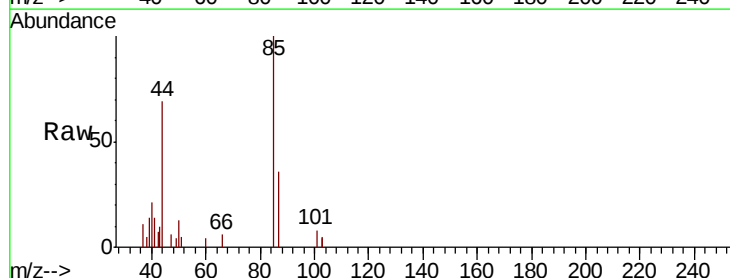
Acq: 24 Mar 2022 5:07

Tgt Ion: 85 Resp: 10762

Ion Ratio Lower Upper

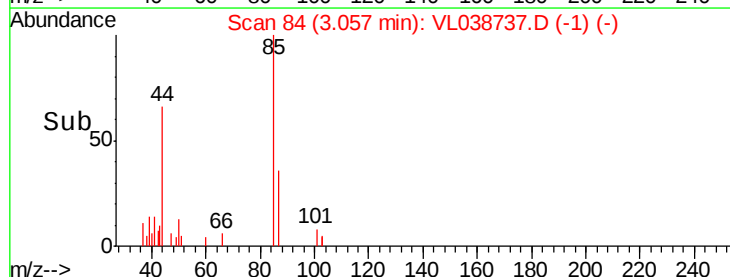
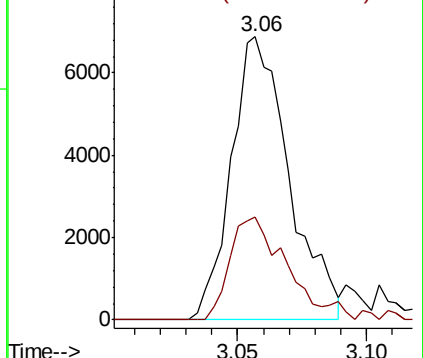
85 100

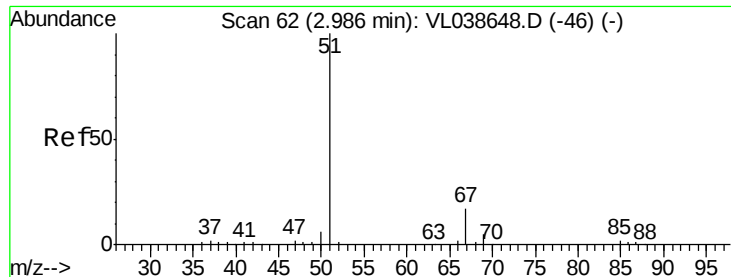
87 36.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

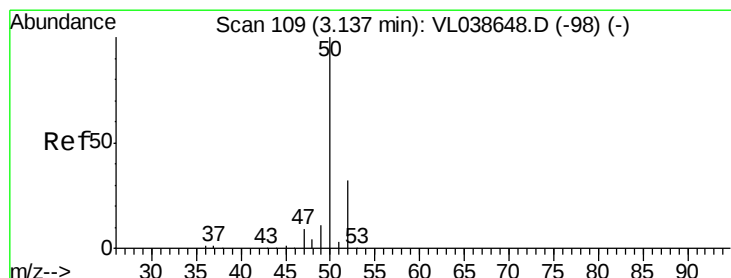
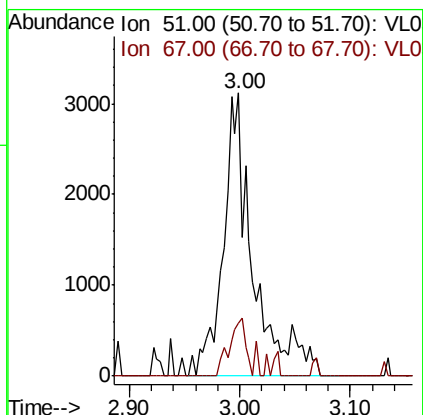
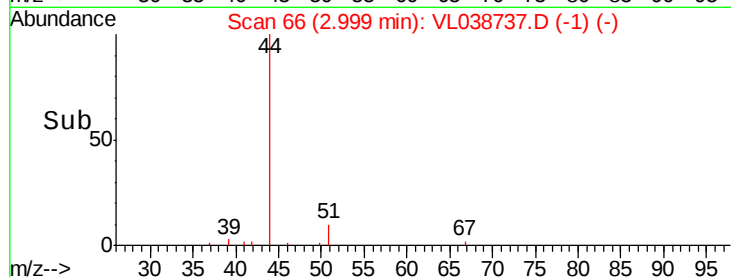
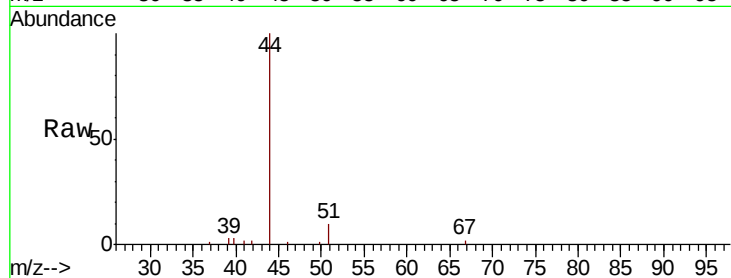
Acq: 24 Mar 2022 5:07

Tot Ion: 51 Resp: 5806

Ion Ratio Lower Upper

51 100

67 12.4 14.1 21.1#



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038737.D

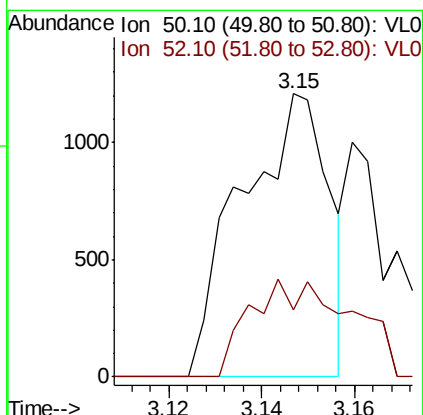
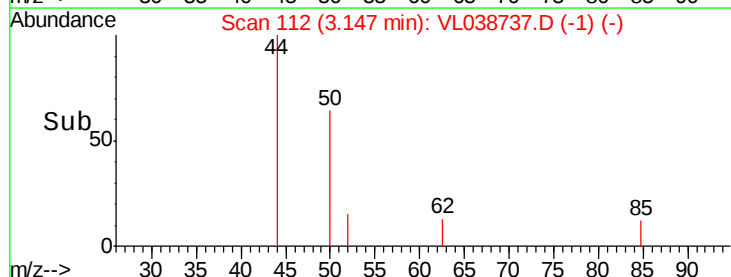
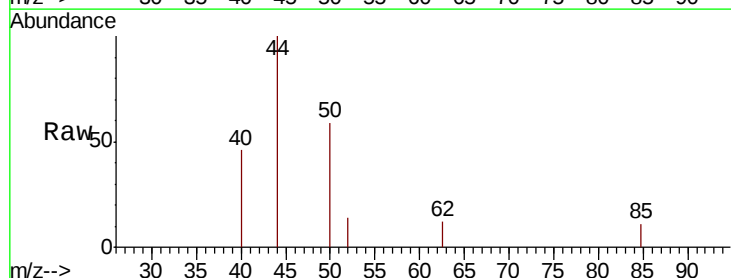
Acq: 24 Mar 2022 5:07

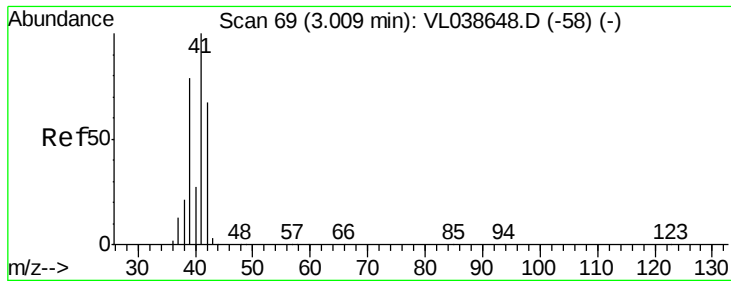
Tgt Ion: 50 Resp: 1583

Ion Ratio Lower Upper

50 100

52 23.8 25.5 38.3#





#9

Propene

Concen: 0.216 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

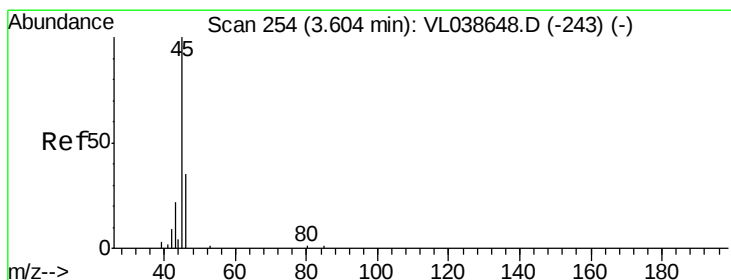
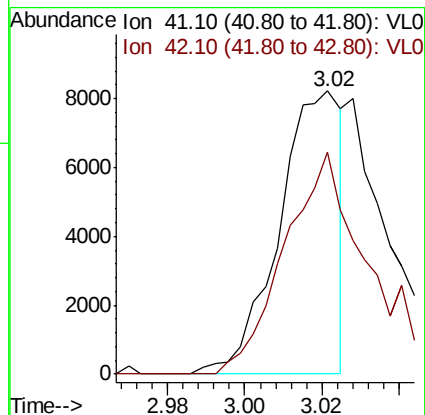
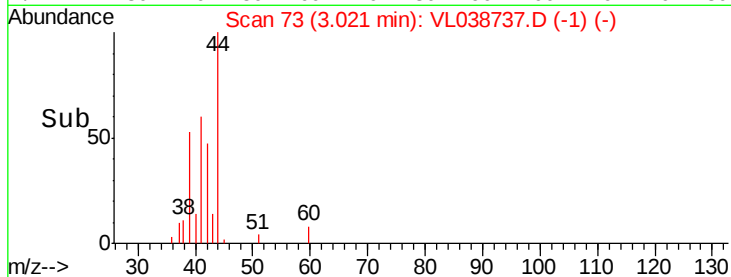
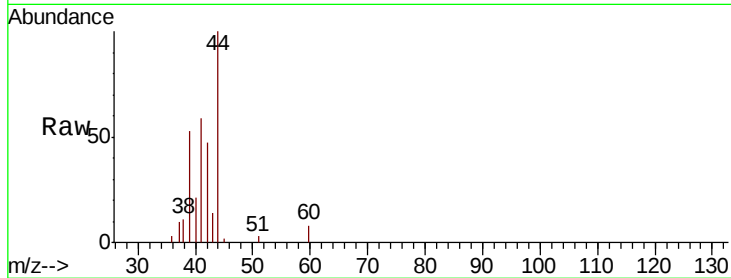
Acq: 24 Mar 2022 5:07

Tot Ion: 41 Resp: 9231

Ion Ratio Lower Upper

41 100

42 116.7 56.2 84.4#



#13

Ethanol

Concen: 5.085 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL038737.D

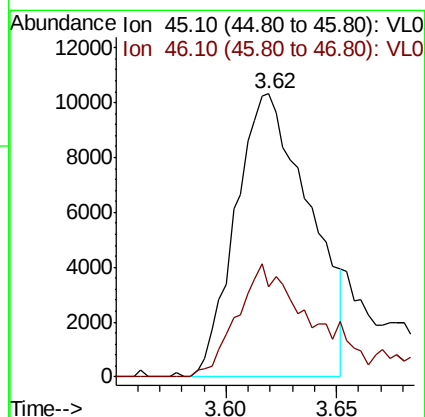
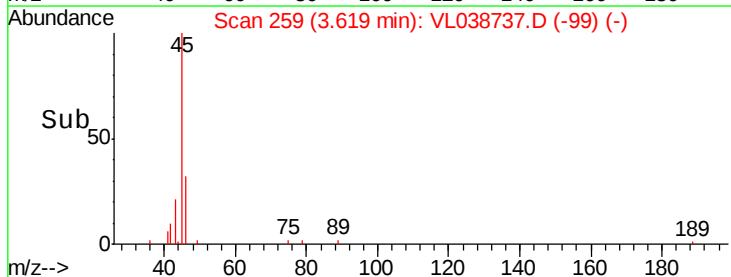
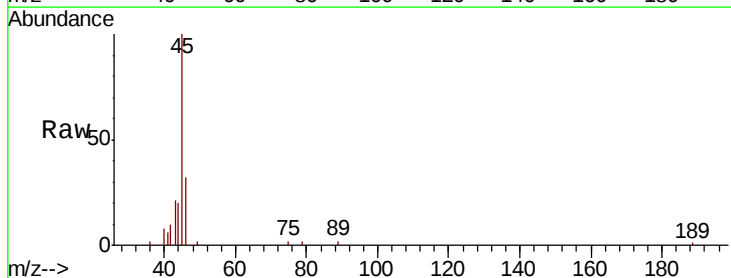
Acq: 24 Mar 2022 5:07

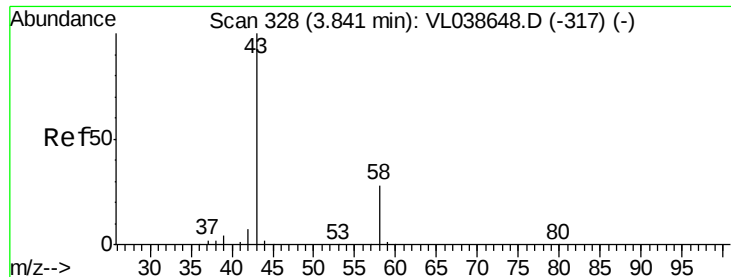
Tgt Ion: 45 Resp: 24010

Ion Ratio Lower Upper

45 100

46 45.1 15.1 60.5





#15

Acetone

Concen: 3.607 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

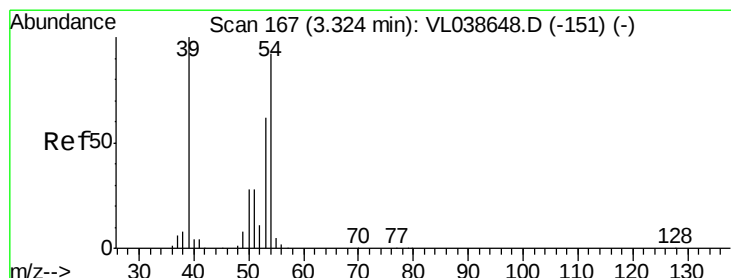
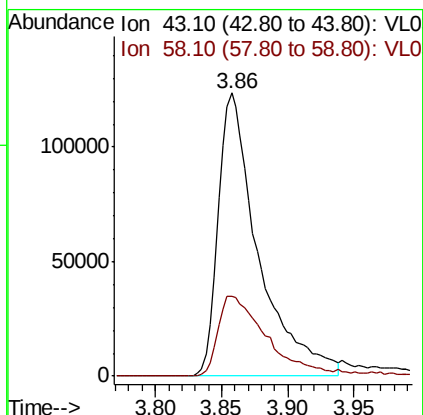
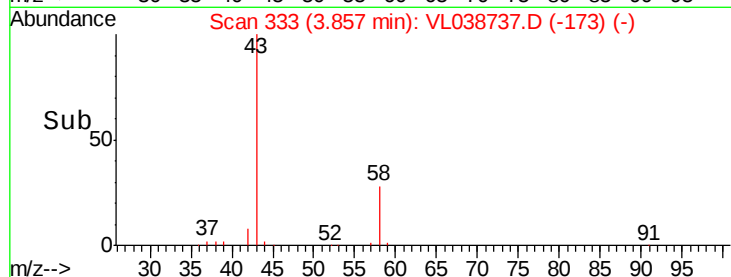
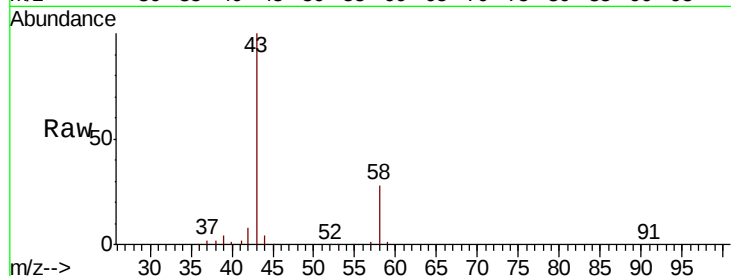
Acq: 24 Mar 2022 5:07

Tot Ion: 43 Resp: 261258

Ion Ratio Lower Upper

43 100

58 35.4 23.3 34.9#



#16

1,3-Butadiene

Concen: 0.664 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL038737.D

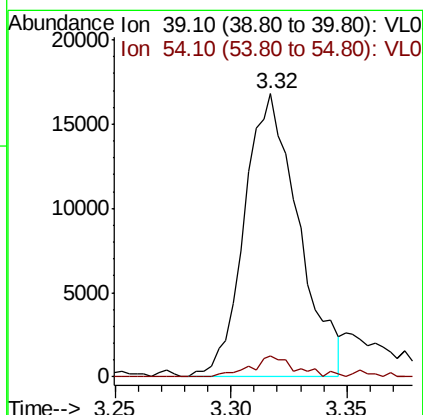
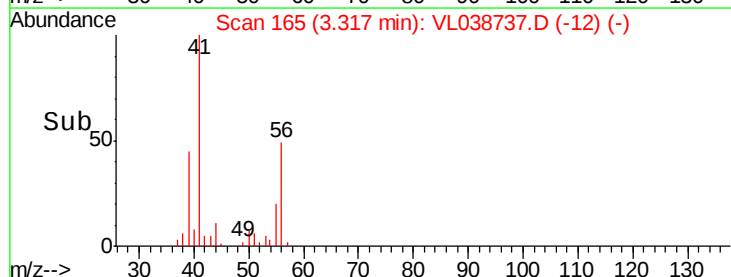
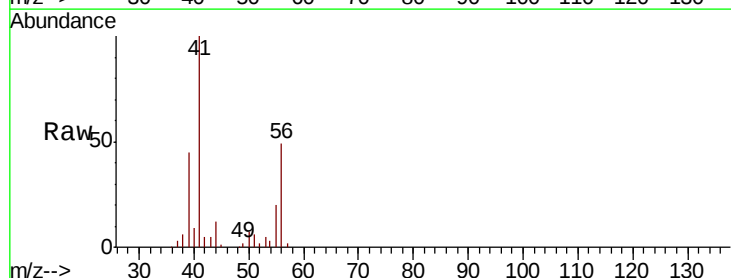
Acq: 24 Mar 2022 5:07

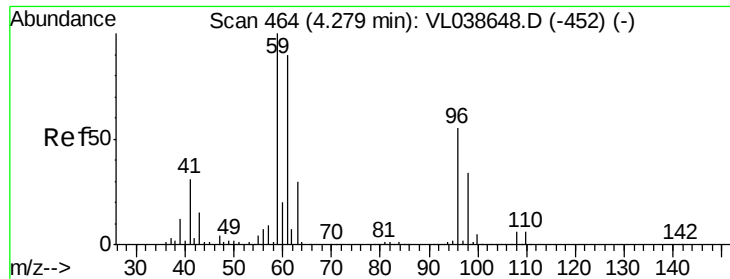
Tgt Ion: 39 Resp: 27274

Ion Ratio Lower Upper

39 100

54 6.2 69.1 103.7#





#17

tert-Butyl alcohol

Concen: 0.047 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

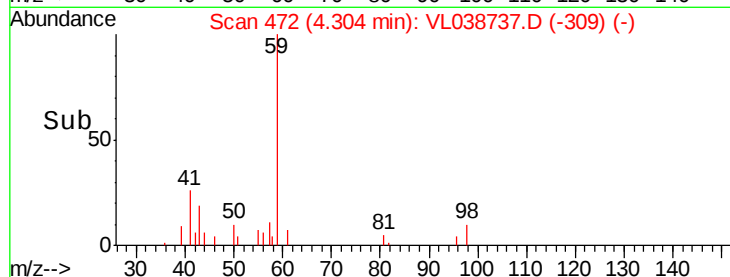
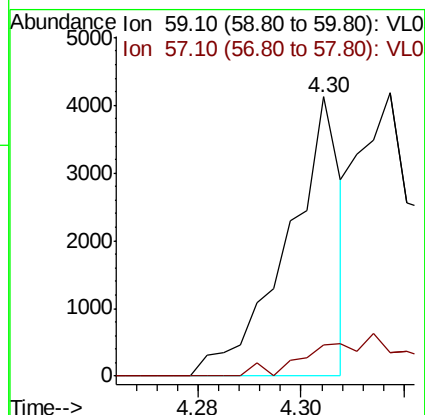
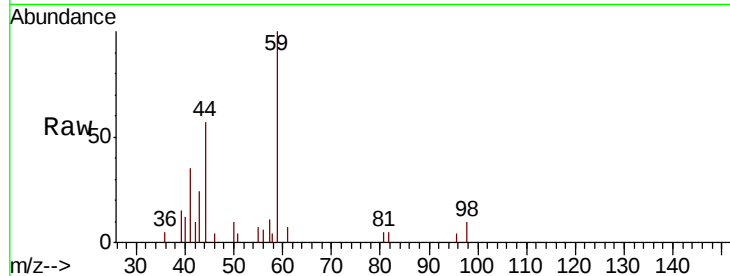
Acq: 24 Mar 2022 5:07

Tot Ion: 59 Resp: 2944

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#19

Isopropyl Alcohol

Concen: 0.104 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.03 min

Lab File: VL038737.D

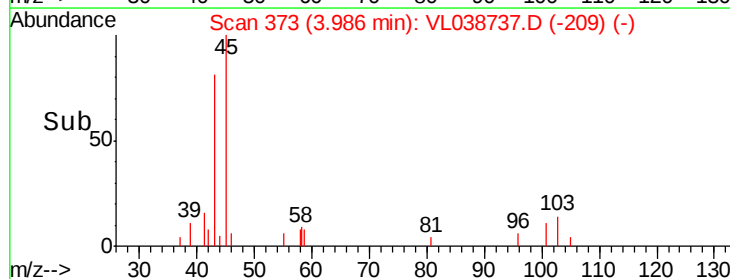
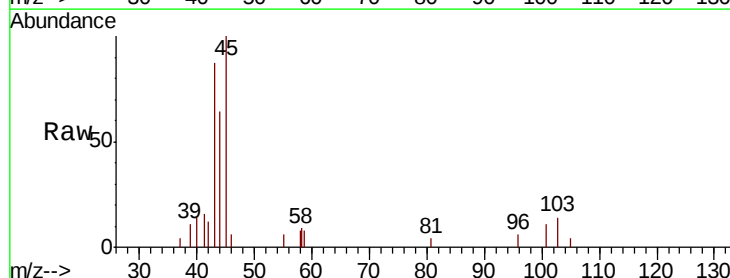
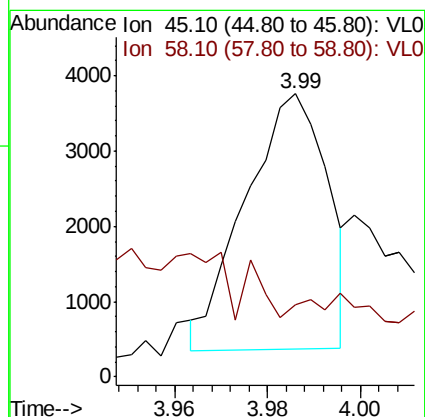
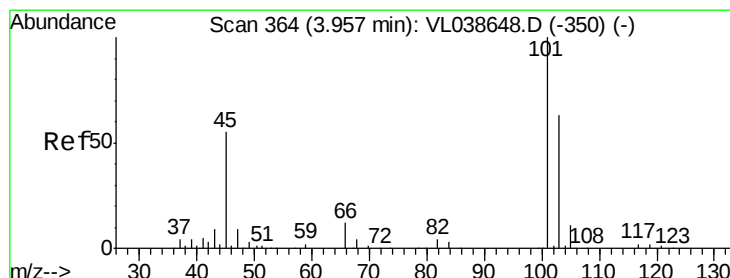
Acq: 24 Mar 2022 5:07

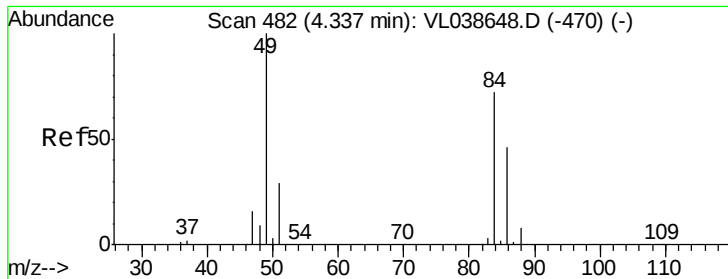
Tgt Ion: 45 Resp: 4157

Ion Ratio Lower Upper

45 100

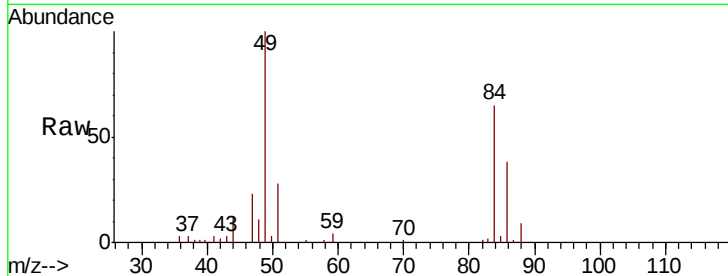
58 0.0 2.3 3.5#



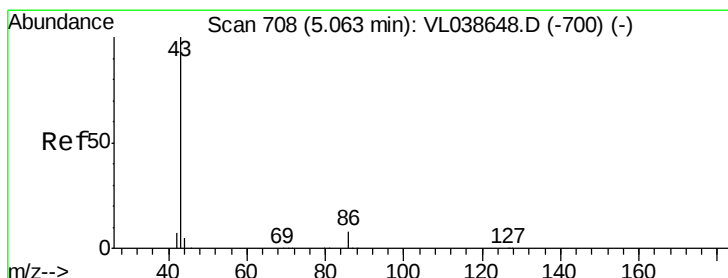
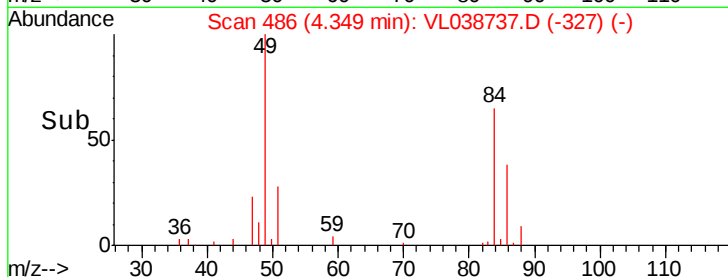
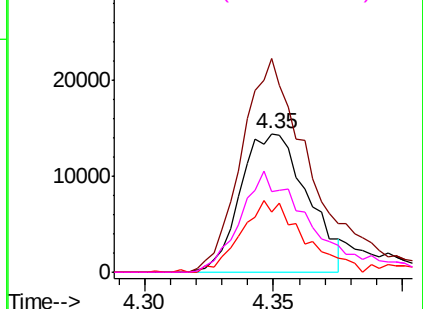


#20
Methvlene Chloride
Concen: 0.857 ppbv
RT: 4.35 Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Mar 2022 5:07

Tot Ion:	84	Resp:	26158
Ion	Ratio	Lower	Upper
84	100		
49	154.1	111.2	166.8
51	43.1	32.8	49.2
86	58.2	51.4	77.0

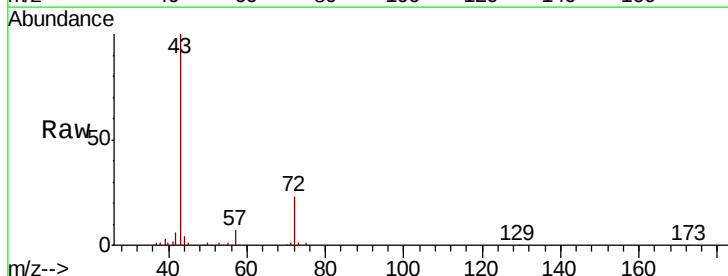


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

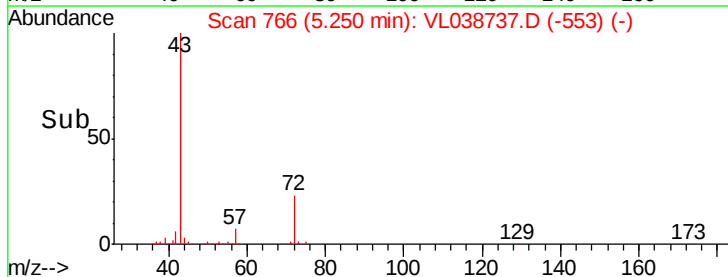
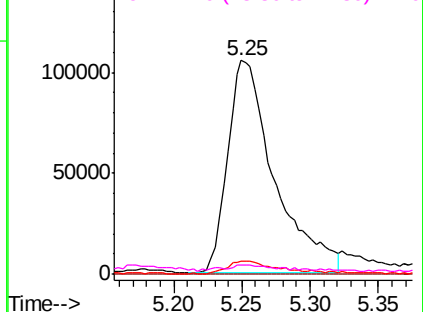


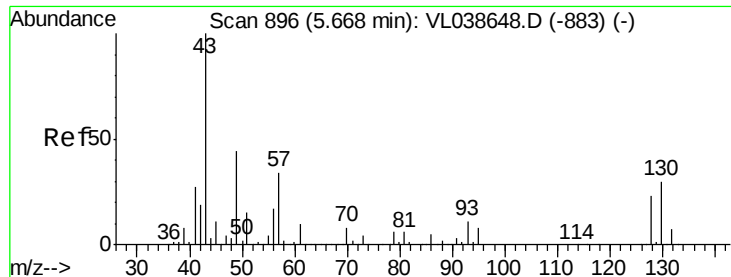
#23
Vinyl Acetate
Concen: 3.602 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.19 min
Lab File: VL038737.D
Acq: 24 Mar 2022 5:07

Tgt Ion:	43	Resp:	252607
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	5.7	6.8	10.2#
44	2.6	4.2	6.2#



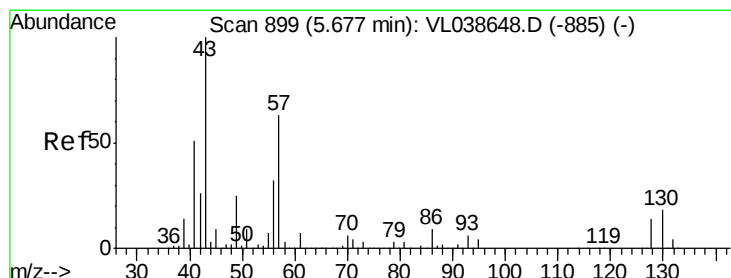
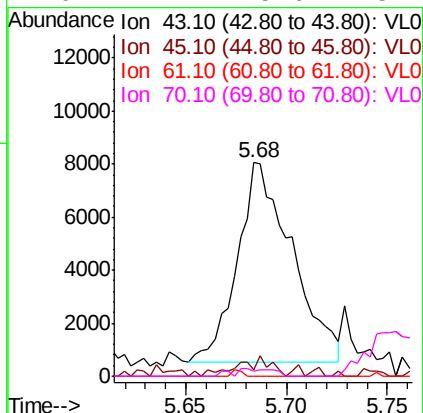
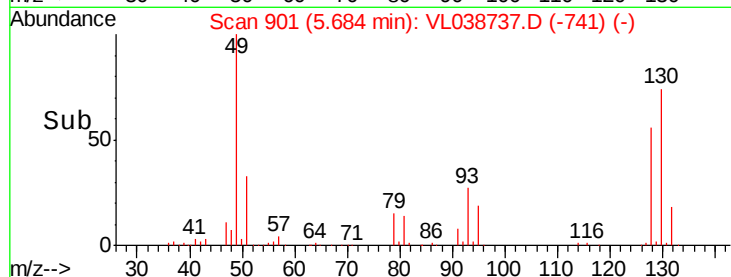
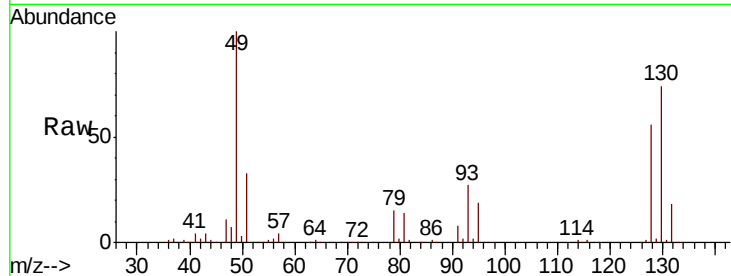
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





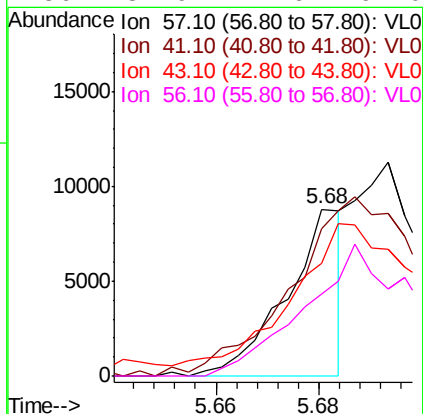
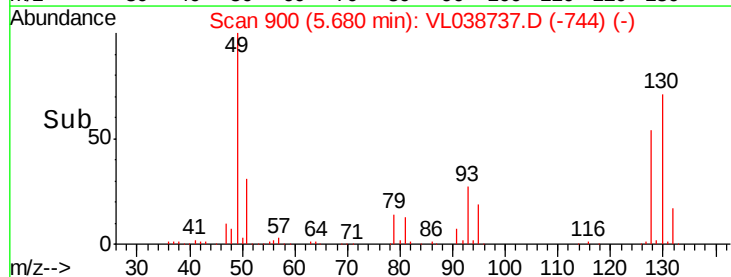
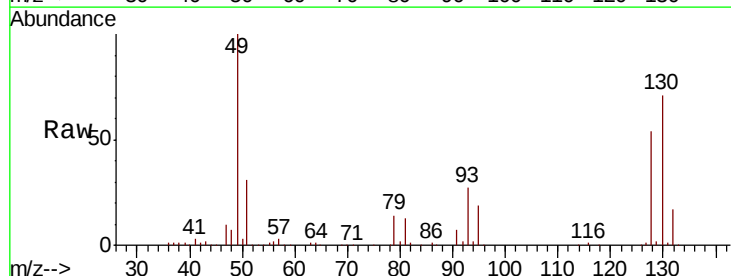
#25
Ethyl Acetate
Concen: 0.078 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Mar 2022 5:07

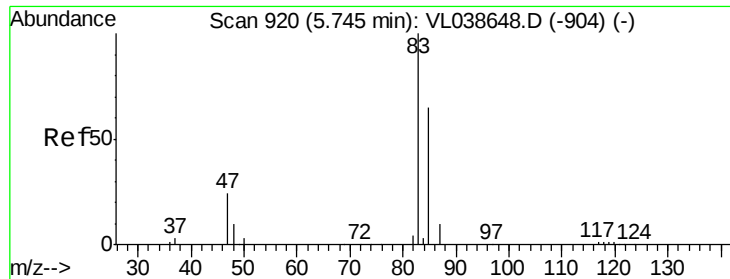
Tot Ion:	43	Resp:	14200
Ion	Ratio	Lower	Upper
43	100		
45	7.8	8.2	12.4#
61	0.6	8.3	12.5#
70	2.7	5.6	8.4#



#26
Hexane
Concen: 0.082 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: 0.00 min
Lab File: VL038737.D
Acq: 24 Mar 2022 5:07

Tgt Ion:	57	Resp:	6659
Ion	Ratio	Lower	Upper
57	100		
41	286.1	67.0	100.4#
43	284.1	184.2	276.2#
56	181.9	42.6	64.0#





#29

Chloroform

Concen: 3.036 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

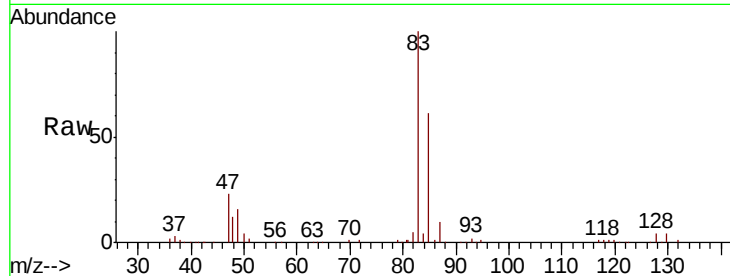
Acq: 24 Mar 2022 5:07

Tot Ion: 83 Resp: 396865

Ion Ratio Lower Upper

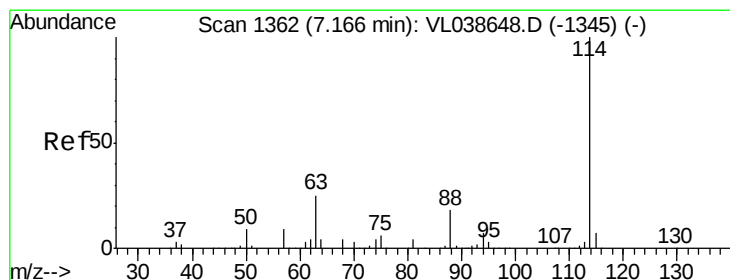
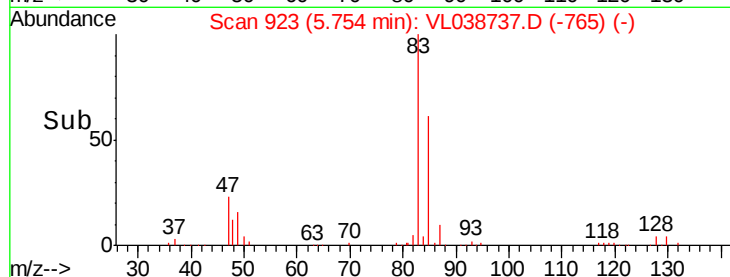
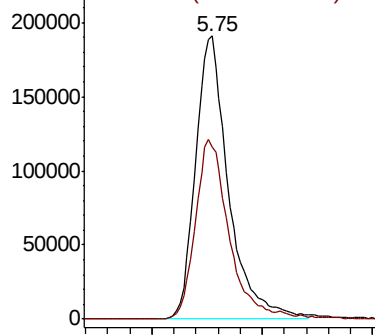
83 100

85 60.7 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VL038737.D

Acq: 24 Mar 2022 5:07

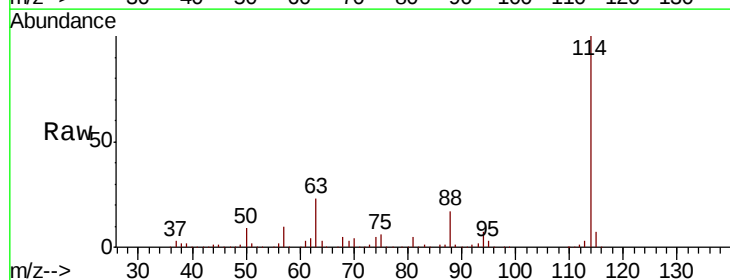
Tgt Ion: 114 Resp: 2294669

Ion Ratio Lower Upper

114 100

63 23.6 19.4 29.0

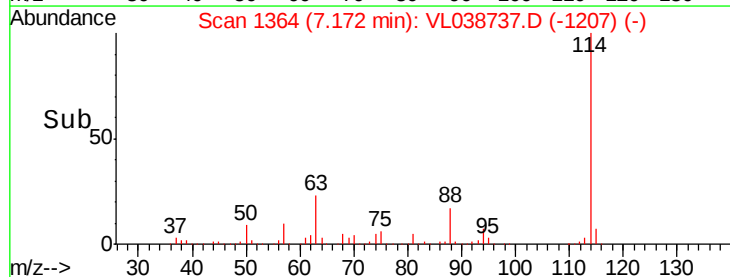
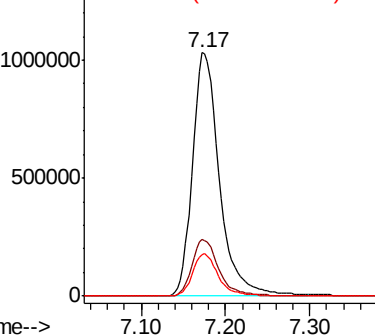
88 17.0 13.9 20.9

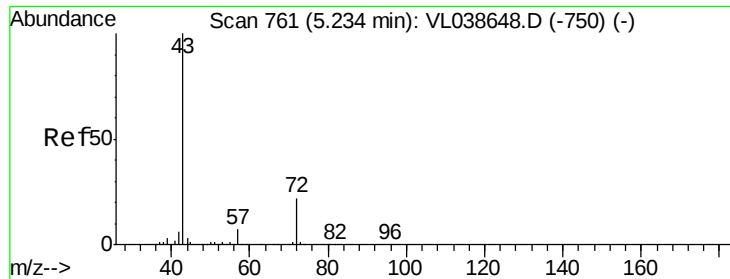


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

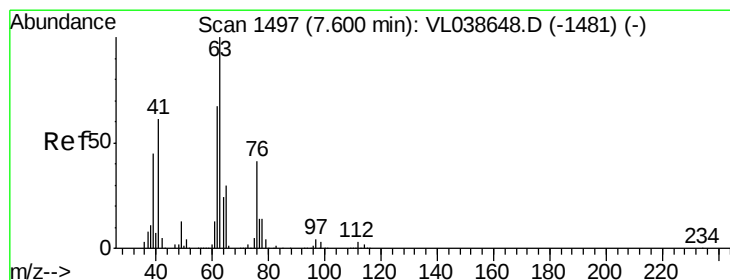
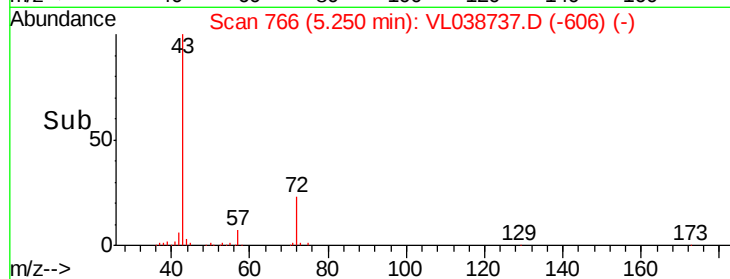
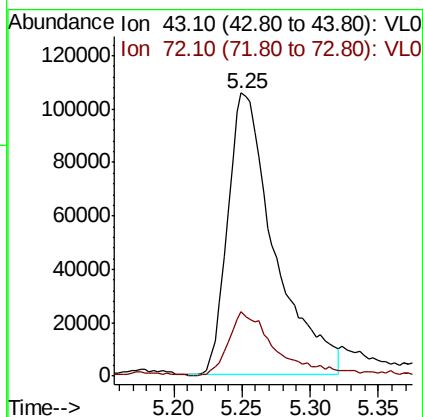
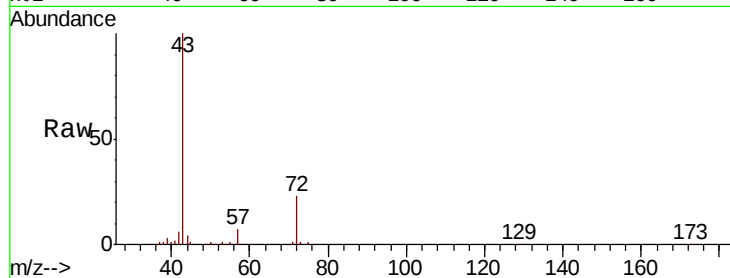
Ion 88.10 (87.80 to 88.80): VL0





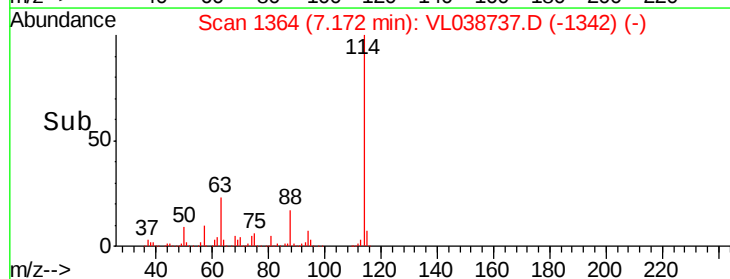
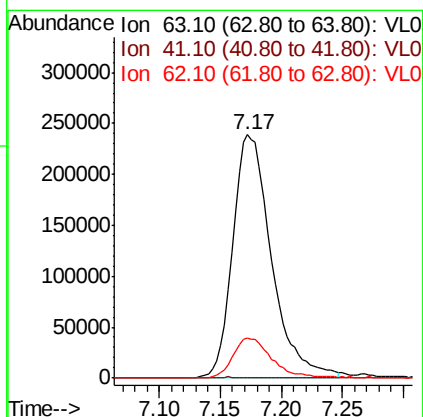
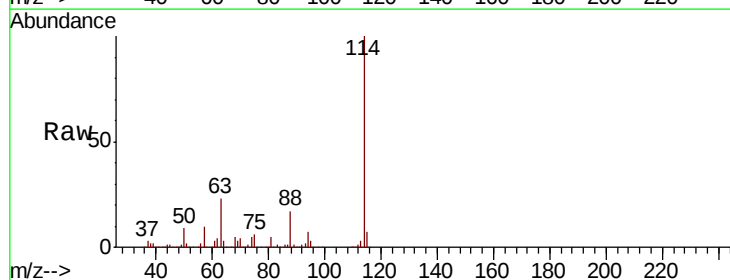
#34
 2-Butanone
 Concen: 2.781 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:07

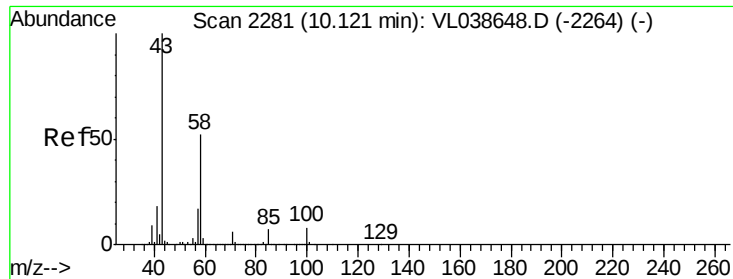
Tot Ion: 43 Resp: 252607
 Ion Ratio Lower Upper
 43 100
 72 25.4 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.594 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.43 min
 Lab File: VL038737.D
 Acq: 24 Mar 2022 5:07

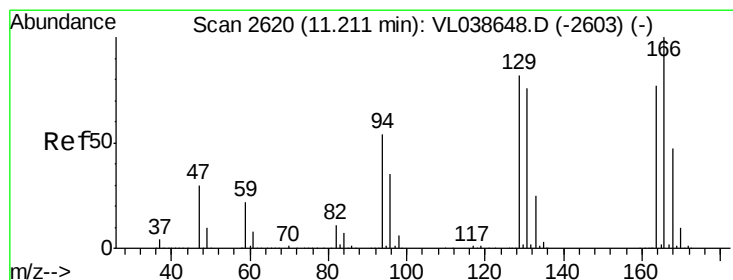
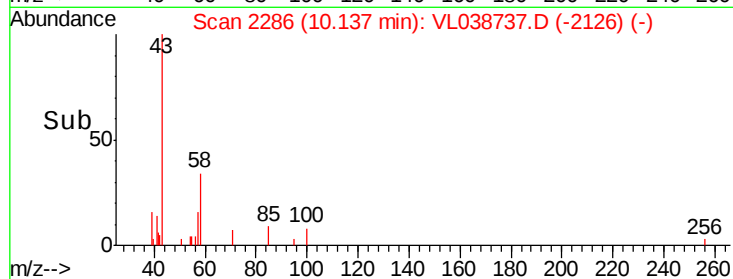
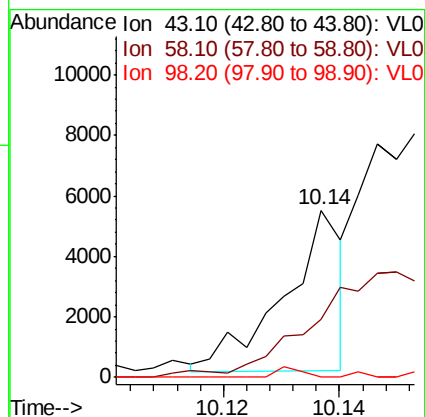
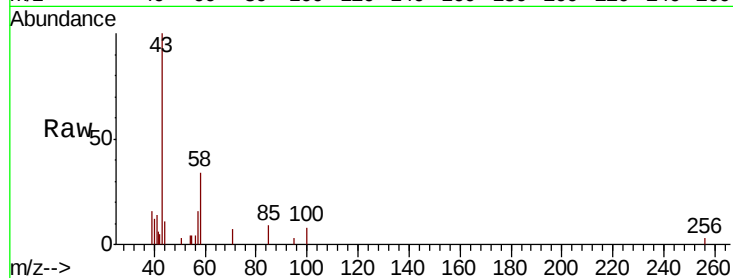
Tgt Ion: 63 Resp: 525792
 Ion Ratio Lower Upper
 63 100
 41 0.2 49.0 73.6#
 62 16.4 53.9 80.9#





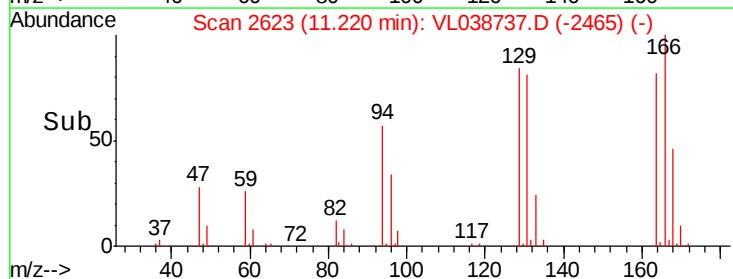
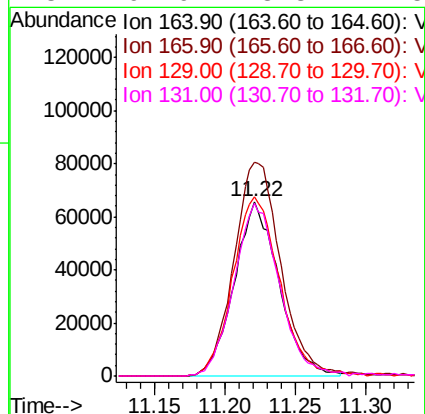
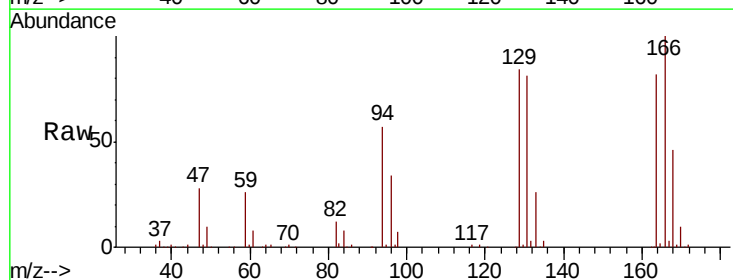
#51
 2-Hexanone
 Concen: 0.031 ppbv
 RT: 10.14 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:07

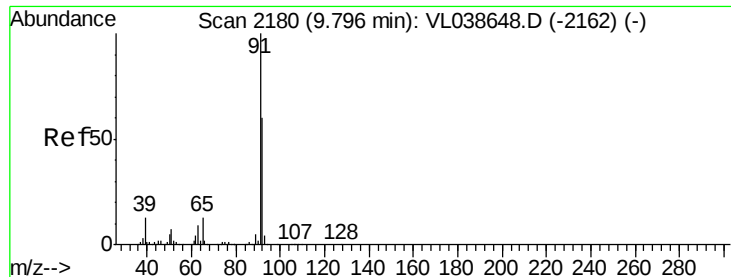
Tot Ion:	43	Resp:	3747
Ion Ratio	Lower	Upper	
43	100		
58	0.0	41.2	61.8#
98	3.6	0.2	0.4#



#52
 Tetrachloroethene
 Concen: 2.249 ppbv
 RT: 11.22 min Scan# 2623
 Delta R.T. 0.01 min
 Lab File: VL038737.D
 Acq: 24 Mar 2022 5:07

Tgt Ion:	164	Resp:	145779
Ion Ratio	Lower	Upper	
164	100		
166	121.6	103.3	154.9
129	104.0	85.2	127.8
131	97.9	78.3	117.5





#53

Toluene

Concen: 0.033 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

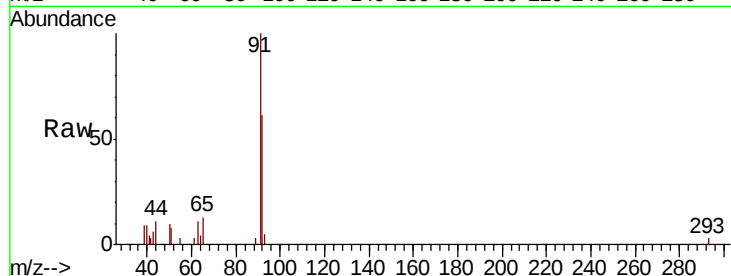
Acq: 24 Mar 2022 5:07

Tot Ion: 91 Resp: 6245

Ion Ratio Lower Upper

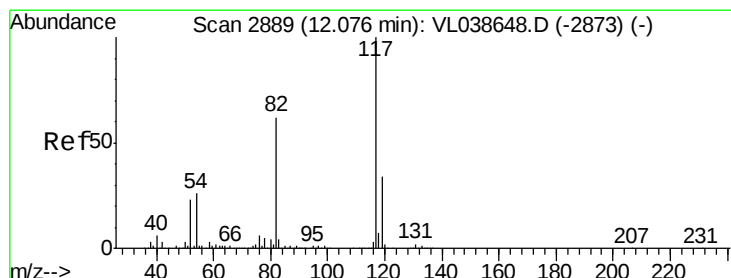
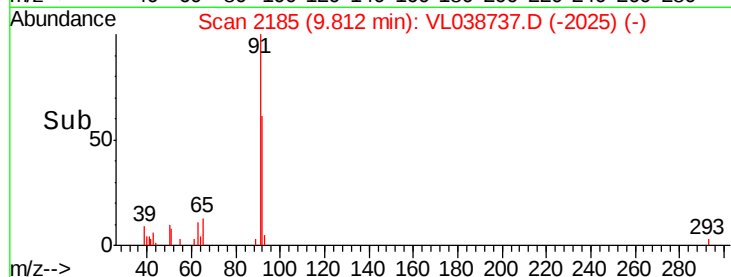
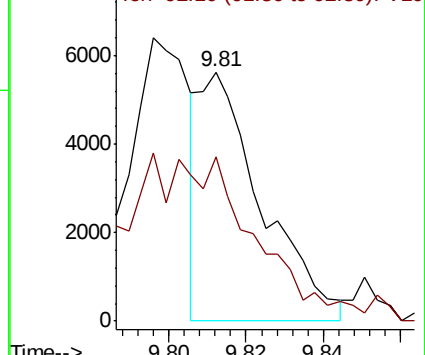
91 100

92 0.0 48.7 73.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.01 min

Lab File: VL038737.D

Acq: 24 Mar 2022 5:07

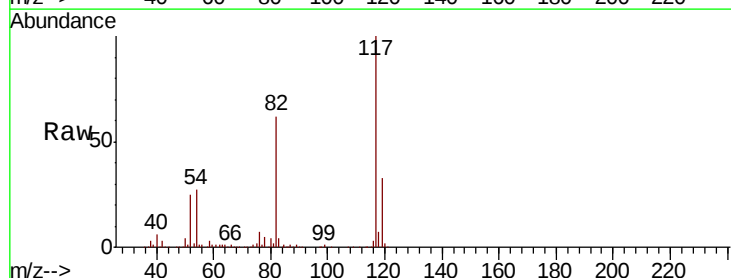
Tgt Ion: 117 Resp: 1923897

Ion Ratio Lower Upper

117 100

82 65.3 51.6 77.4

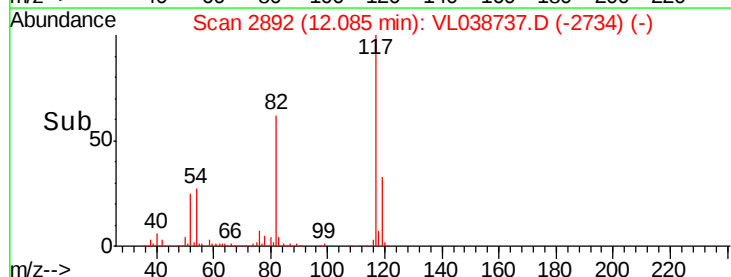
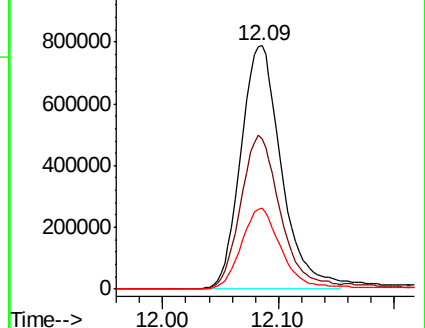
119 34.4 26.9 40.3

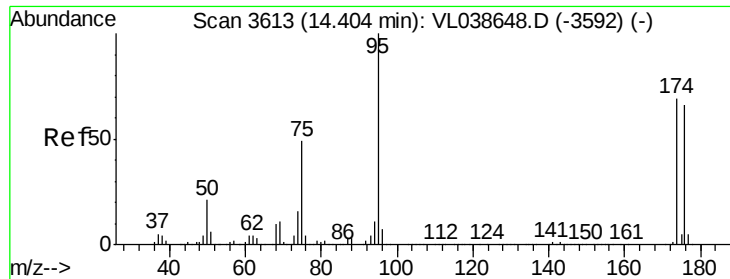


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

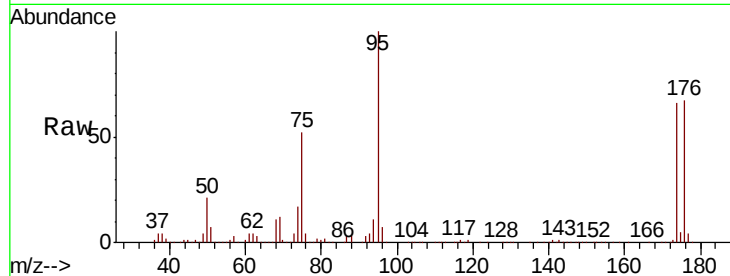
Ion 119.10 (118.80 to 119.80): V



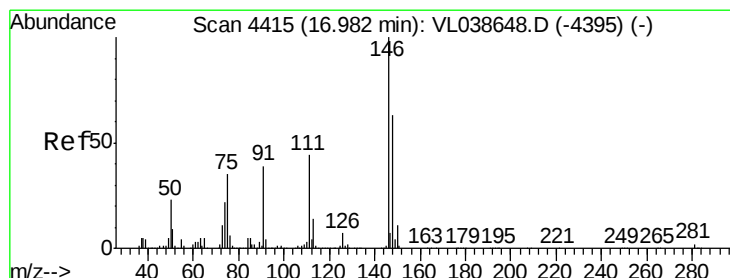
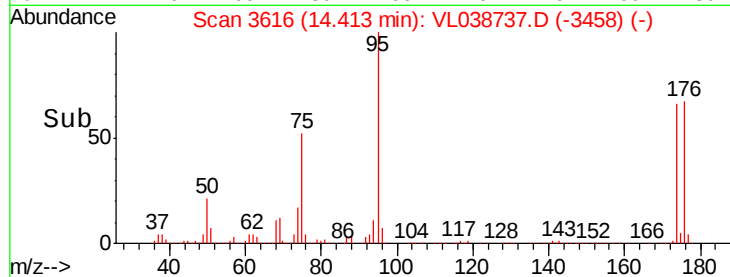
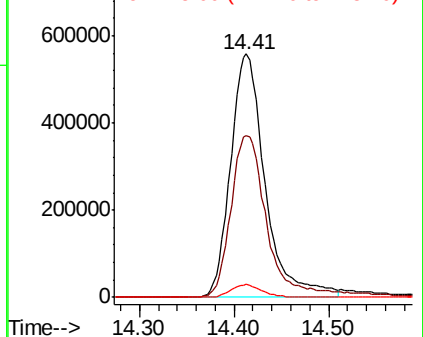


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.631 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 5:07

Tot Ion: 95 Resp: 1420535
 Ion Ratio Lower Upper
 95 100
 174 71.6 56.1 84.1
 175 5.2 4.2 6.2

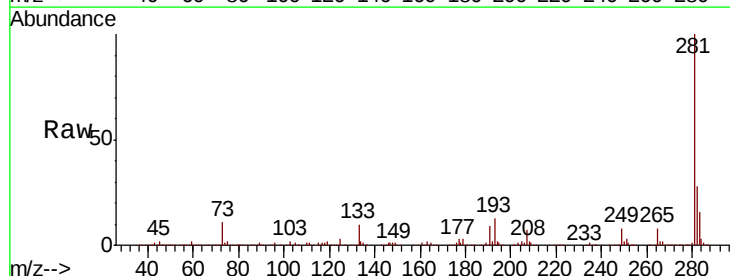


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#75
 1,3-Dichlorobenzene
 Concen: 0.034 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. 0.02 min
 Lab File: VL038737.D
 Acq: 24 Mar 2022 5:07

Tgt Ion: 146 Resp: 4733
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.2 66.6#
 148 0.0 32.5 97.5#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

