

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030222\
 Data File : VL038481.D
 Acq On : 2 Mar 2022 14:28
 Operator : SY/AP
 Sample : N1723-03DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSG1DL2

Quant Time: Mar 02 22:36:37 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	904764	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	2126984	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	1925448	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1580610	9.92	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

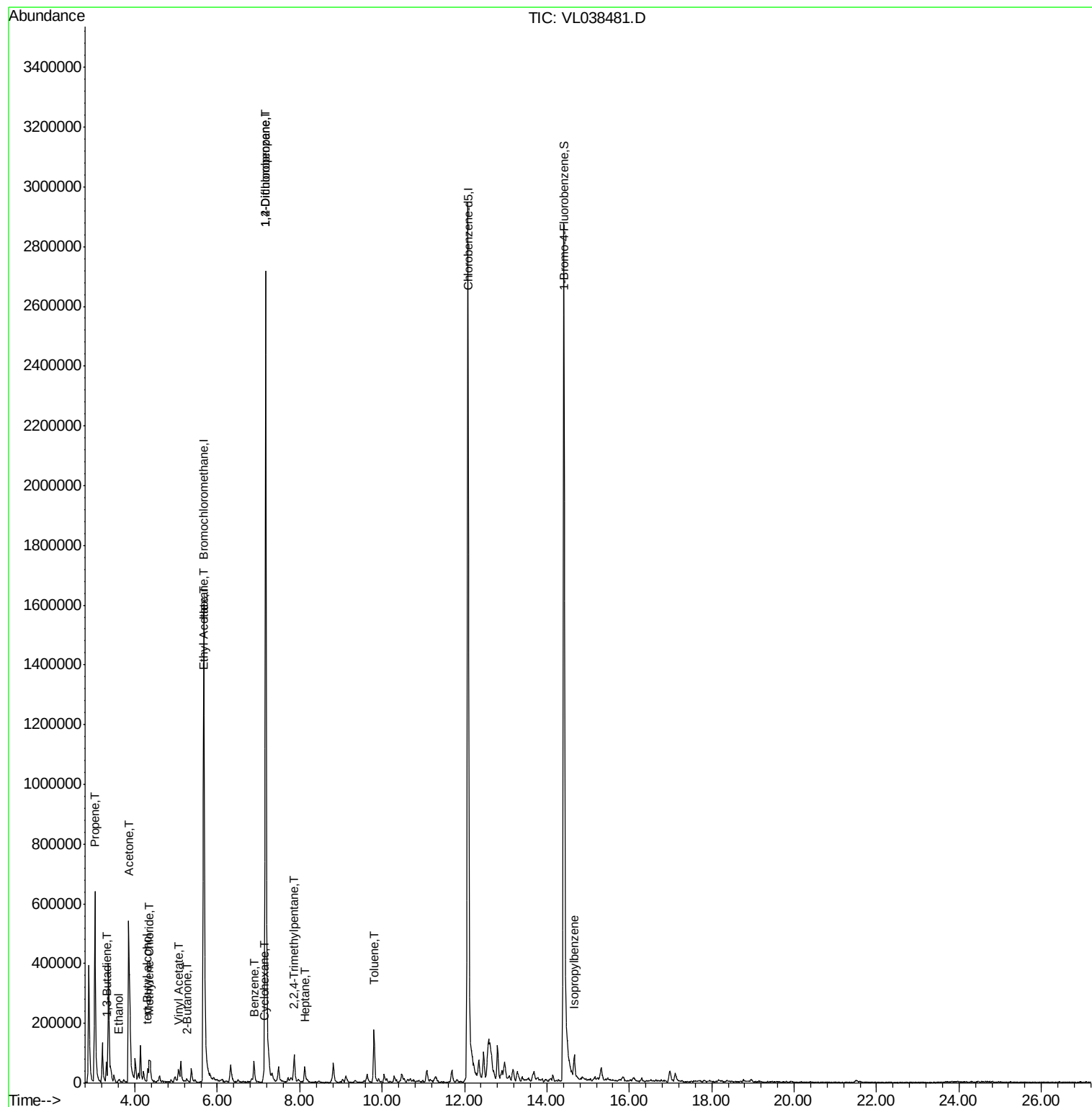
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.02	41	184975	3.51	ppbv #	69
10) Heptane	8.12	43	10685	0.08	ppbv #	28
13) Ethanol	3.61	45	3465	0.66	ppbv #	1
15) Acetone	3.85	43	779857	10.14	ppbv	99
16) 1,3-Butadiene	3.31	39	8125	0.16	ppbv #	61
17) tert-Butyl alcohol	4.31	59	22321	0.29	ppbv #	92
20) Methylene Chloride	4.34	84	11606	0.30	ppbv	96
23) Vinyl Acetate	5.06	43	9967	0.10	ppbv #	1
25) Ethyl Acetate	5.69	43	40430	0.20	ppbv #	79
26) Hexane	5.68	57	48918	0.52	ppbv #	38
30) Cyclohexane	7.13	84	5294	0.07	ppbv #	1
34) 2-Butanone	5.24	43	4031	0.06	ppbv #	54
36) Benzene	6.89	78	61450	0.33	ppbv #	93
39) 1,2-Dichloropropane	7.17	63	581710	7.80	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	40789	0.13	ppbv #	38
53) Toluene	9.81	91	124150	0.61	ppbv	98
62) Isopropylbenzene	14.67	105	64085	0.22	ppbv	98

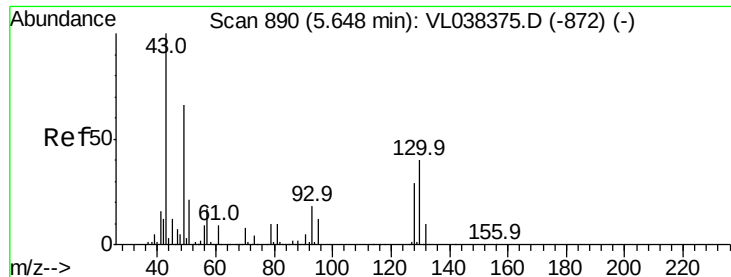
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: FSG1DL2

Acq: 2 Mar 2022 14:28

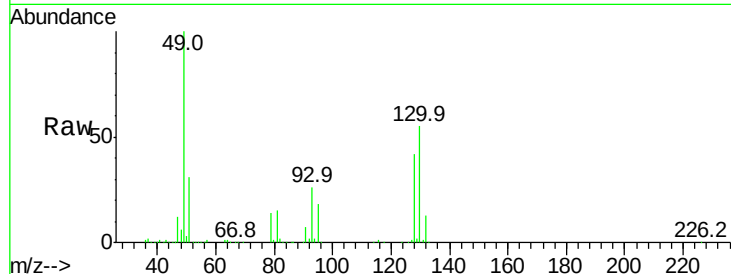
Tgt Ion: 49 Resp: 904764

Ion Ratio Lower Upper

49 100

128 46.0 24.3 72.9

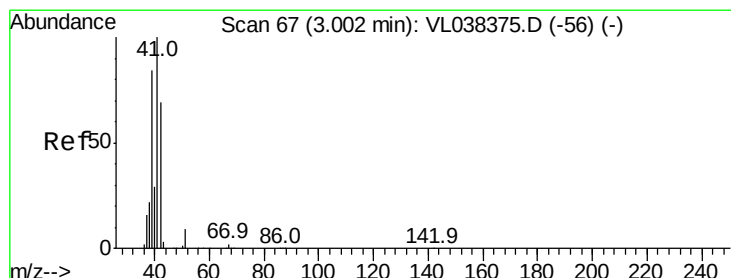
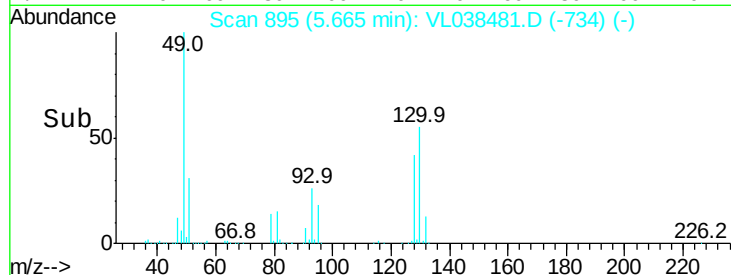
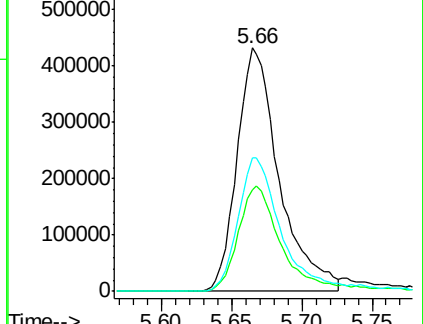
130 59.7 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 3.51 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL038481.D

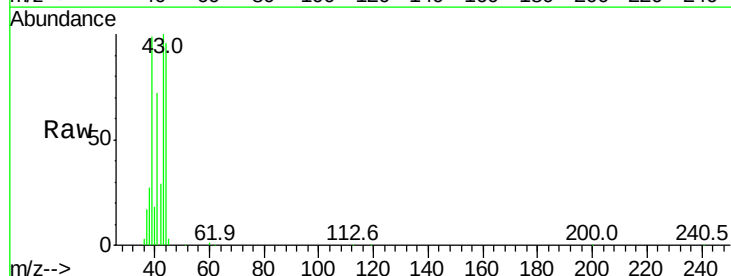
Acq: 2 Mar 2022 14:28

Tgt Ion: 41 Resp: 184975

Ion Ratio Lower Upper

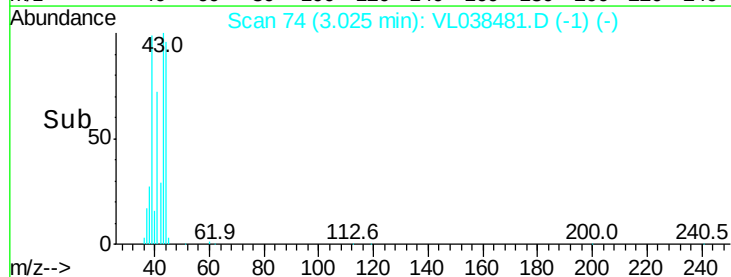
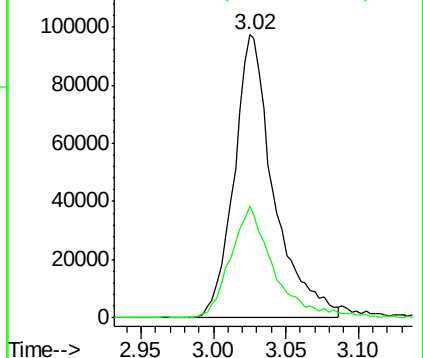
41 100

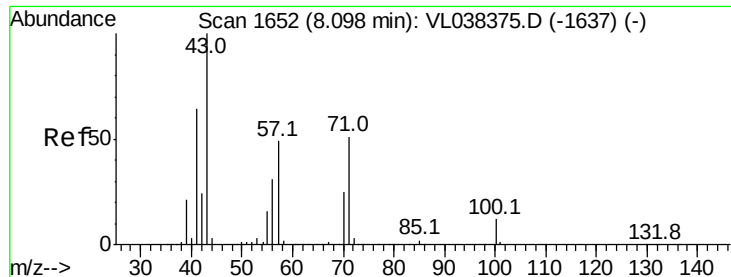
42 43.3 54.6 82.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.08 ppbv

RT: 8.12 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId:

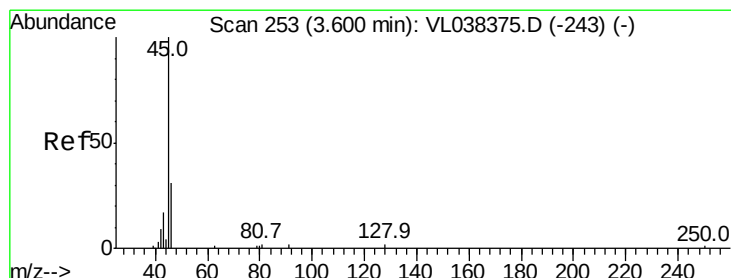
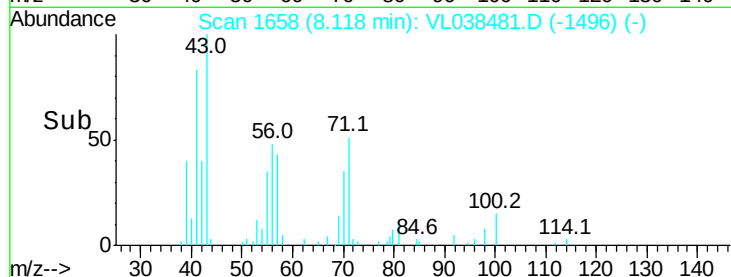
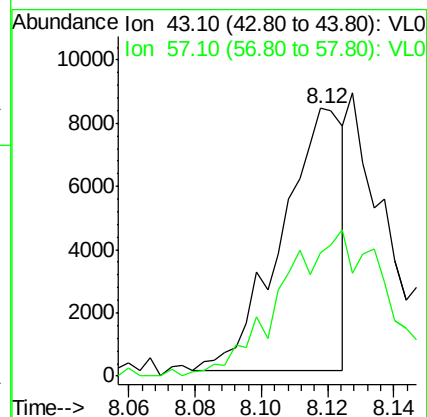
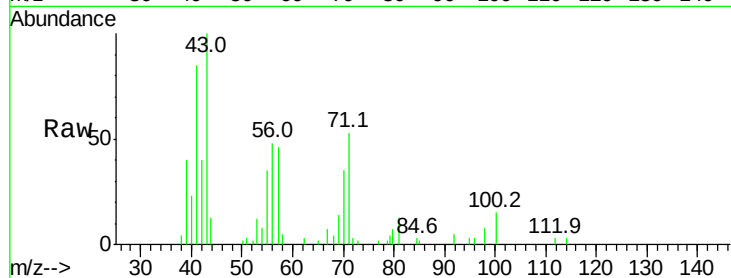
Acq: 2 Mar 2022 14:28

Tgt Ion: 43 Resp: 10685

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#



#13

Ethanol

Concen: 0.66 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL038481.D

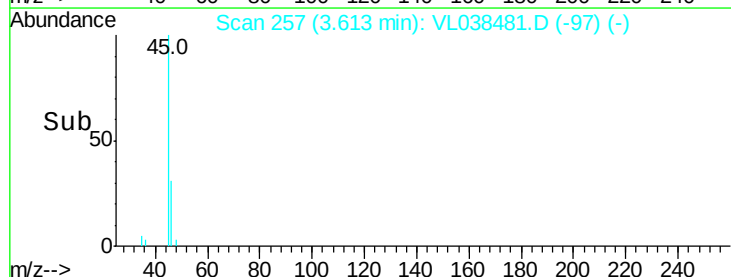
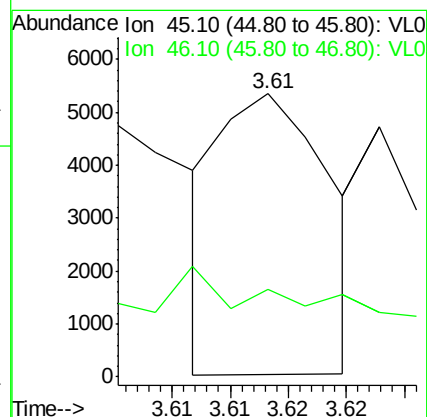
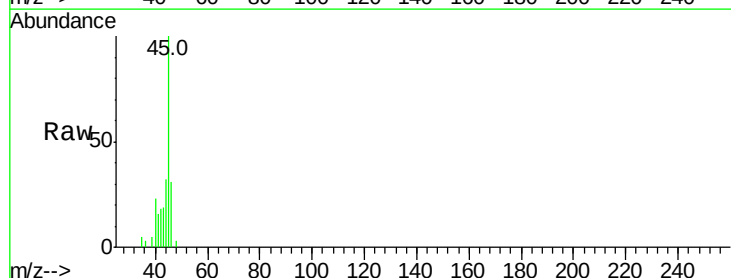
Acq: 2 Mar 2022 14:28

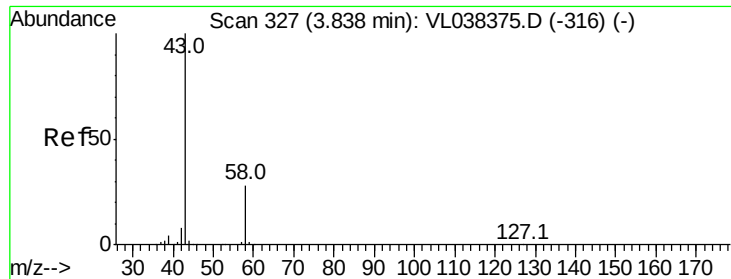
Tgt Ion: 45 Resp: 3465

Ion Ratio Lower Upper

45 100

46 130.3 18.2 72.8#





#15

Acetone

Concen: 10.14 ppbv

RT: 3.85 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: FSG1DL2

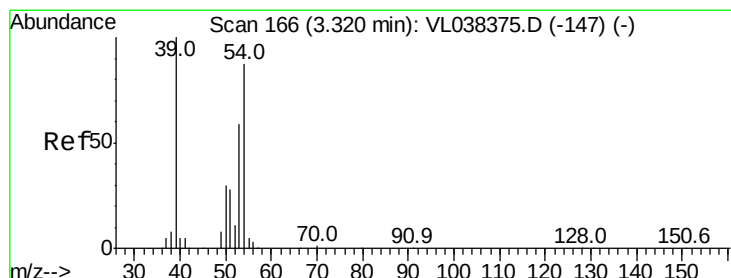
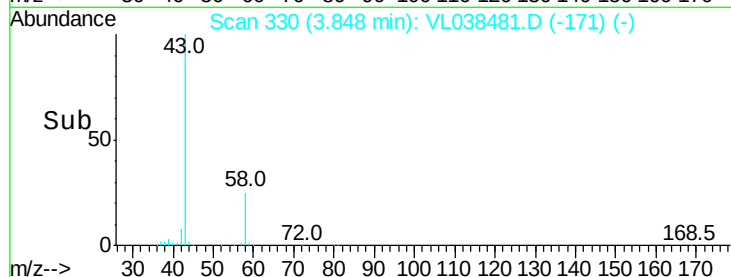
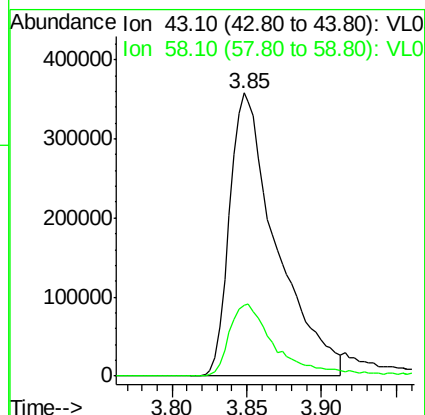
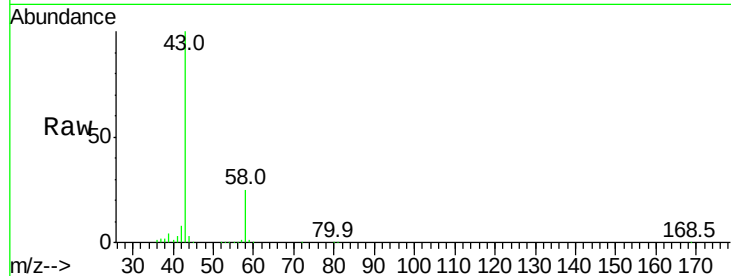
Acq: 2 Mar 2022 14:28

Tgt Ion: 43 Resp: 779857

Ion Ratio Lower Upper

43 100

58 26.4 21.7 32.5



#16

1,3-Butadiene

Concen: 0.16 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038481.D

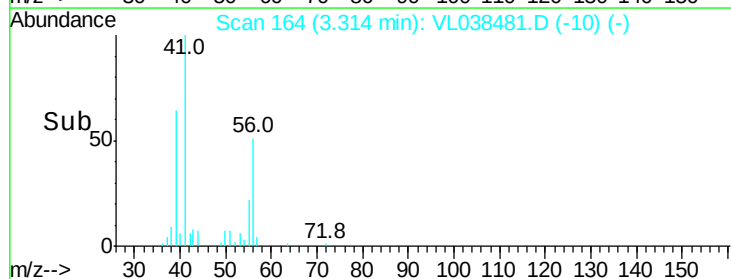
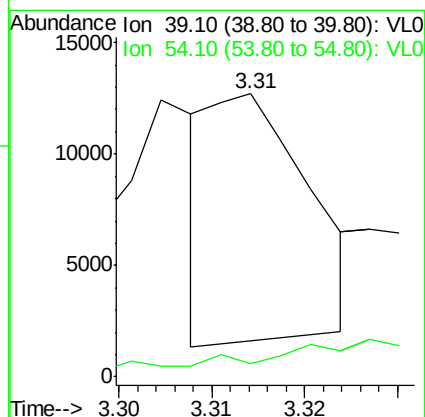
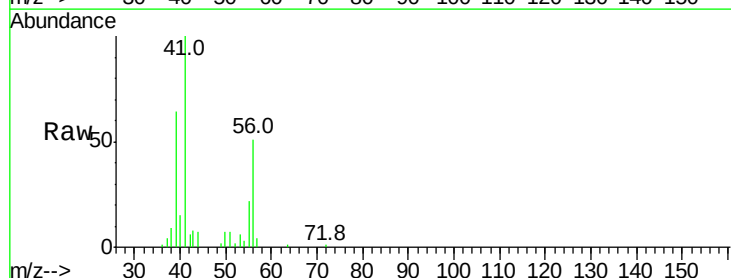
Acq: 2 Mar 2022 14:28

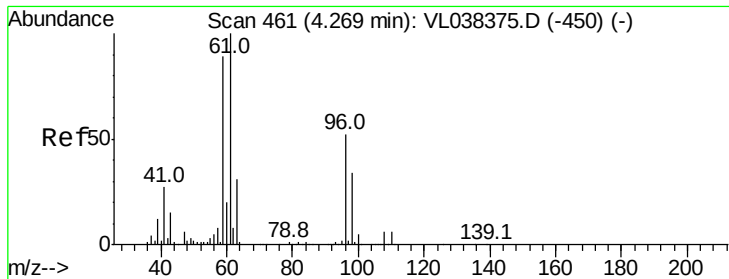
Tgt Ion: 39 Resp: 8125

Ion Ratio Lower Upper

39 100

54 42.4 60.3 90.5#





#17

tert-Butyl alcohol

Concen: 0.29 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

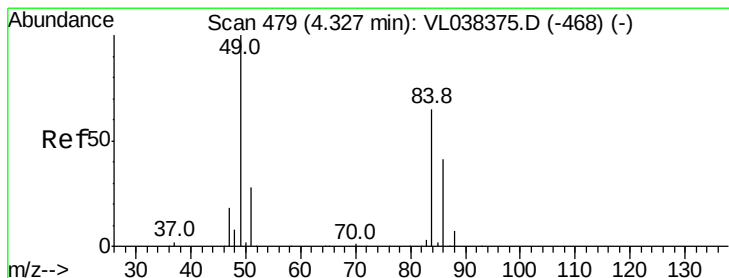
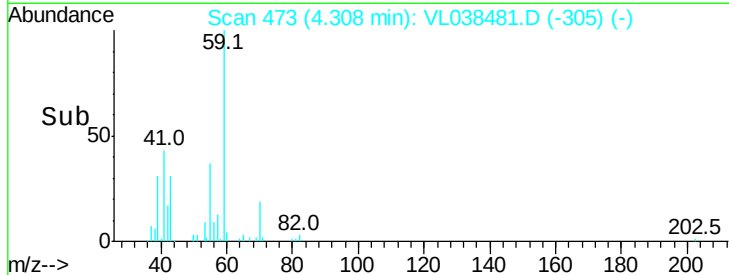
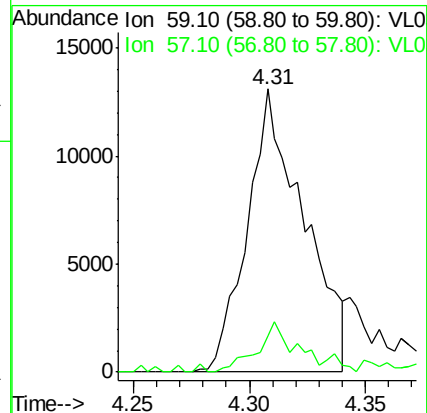
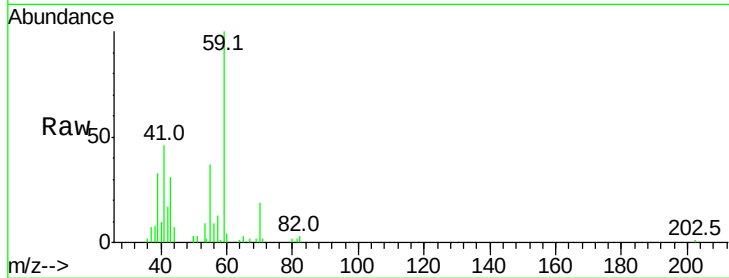
Acq: 2 Mar 2022 14:28 FSG1DL2

Tgt Ion: 59 Resp: 22321

Ion Ratio Lower Upper

59 100

57 13.4 8.4 12.6#



#20

Methylene Chloride

Concen: 0.30 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL038481.D

Acq: 2 Mar 2022 14:28

Tgt Ion: 84 Resp: 11606

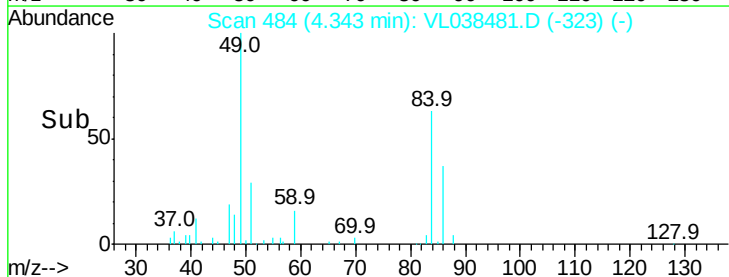
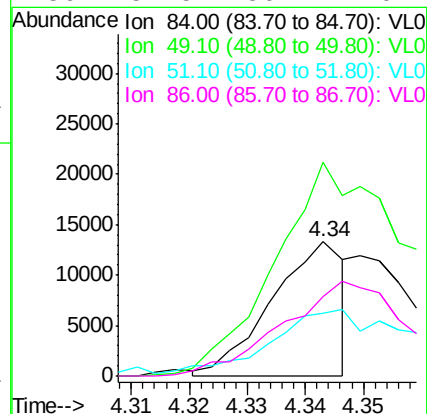
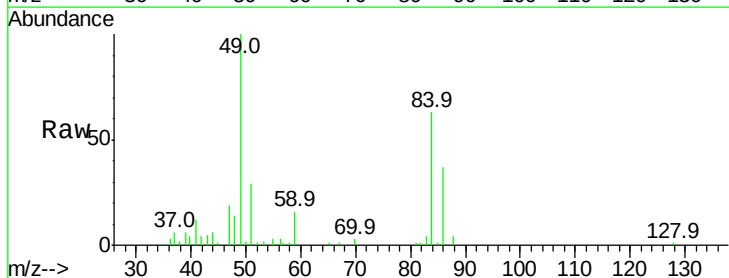
Ion Ratio Lower Upper

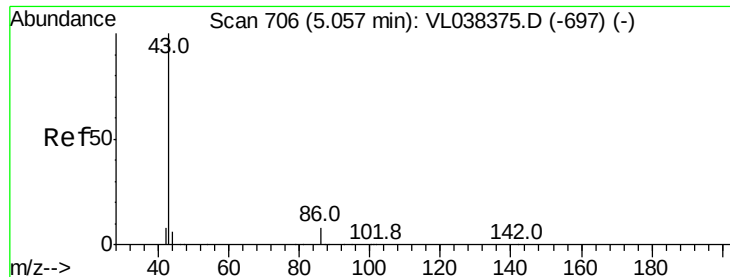
84 100

49 158.0 122.4 183.6

51 40.9 33.3 49.9

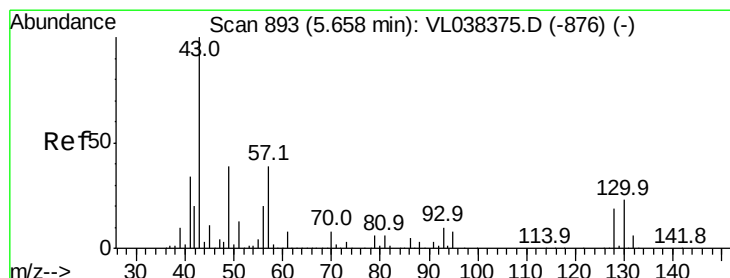
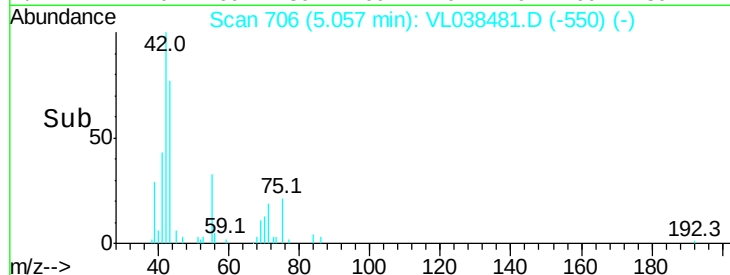
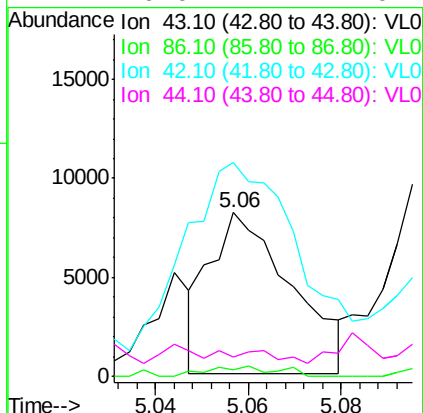
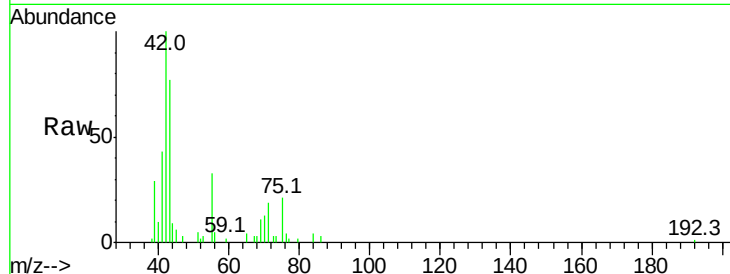
86 57.5 50.7 76.1





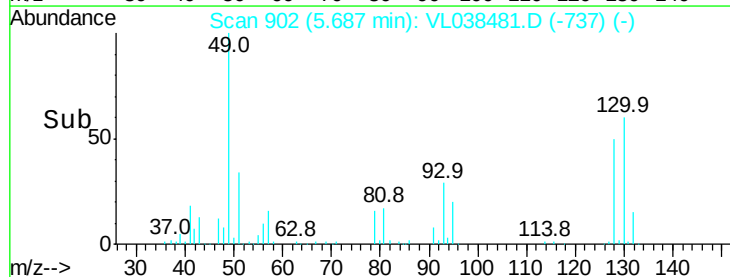
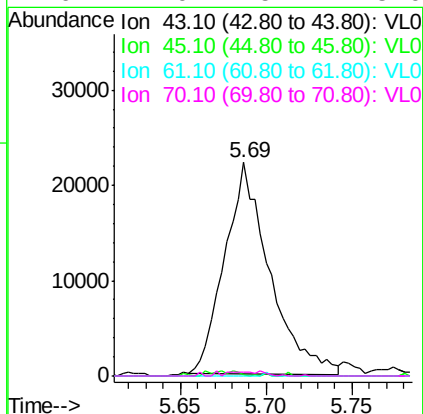
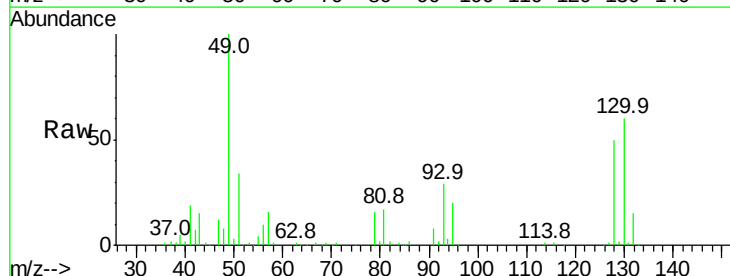
#23
 Vinyl Acetate
 Concen: 0.10 ppbv
 RT: 5.06
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 FSG1DL2
 Acq: 2 Mar 2022 14:28

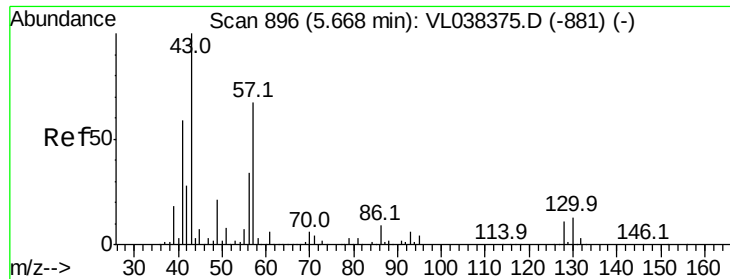
Tgt Ion:	43	Resp:	9967
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.8	8.6
42	127.6	7.4	11.0#
44	0.0	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.20 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.03 min
 Lab File: VL038481.D
 Acq: 2 Mar 2022 14:28

Tgt Ion:	43	Resp:	40430
Ion	Ratio	Lower	Upper
43	100		
45	1.9	7.8	11.6#
61	0.0	7.5	11.3#
70	2.0	5.4	8.0#





#26

Hexane

Concen: 0.52 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 14:28 FSG1DL2

Tgt Ion: 57 Resp: 48918

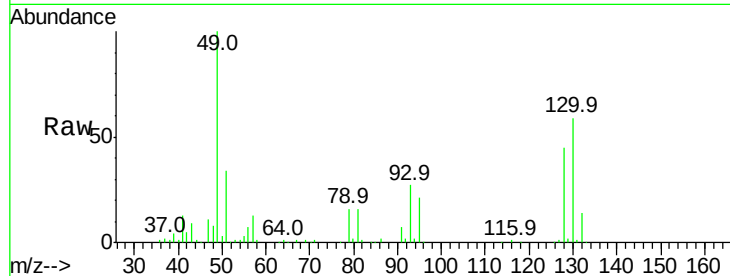
Ion Ratio Lower Upper

57 100

41 122.8 73.1 109.7#

43 88.8 181.0 271.4#

56 65.6 43.4 65.0#

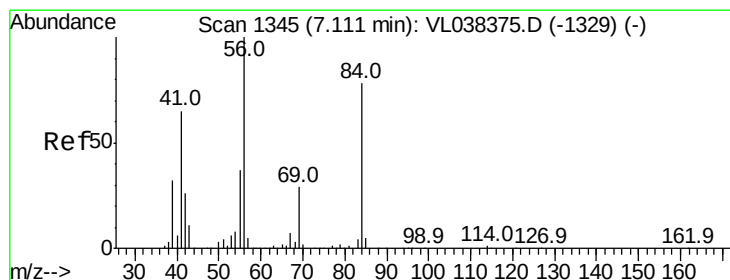
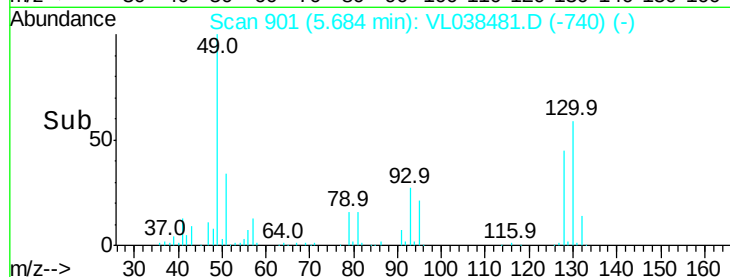
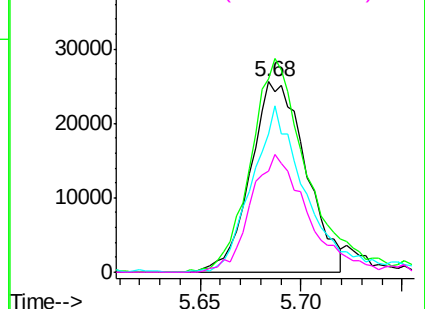


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.07 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. 0.02 min

Lab File: VL038481.D

Acq: 2 Mar 2022 14:28

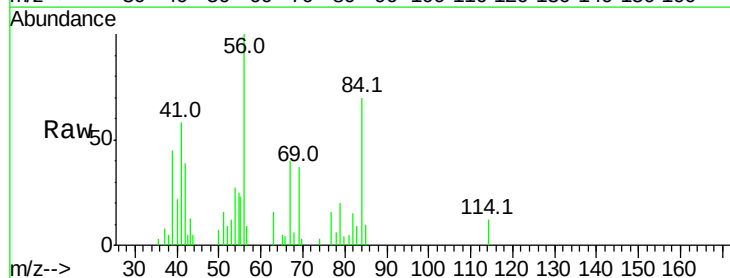
Tgt Ion: 84 Resp: 5294

Ion Ratio Lower Upper

84 100

56 0.0 116.2 174.4#

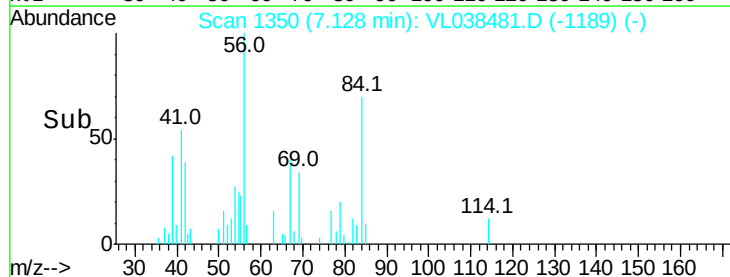
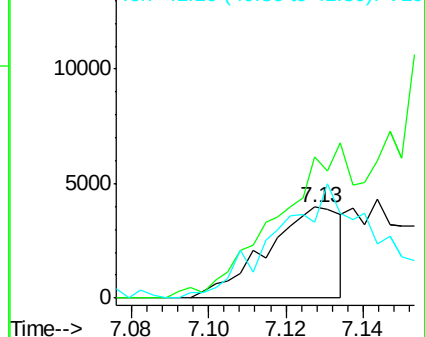
41 200.0 74.3 111.5#

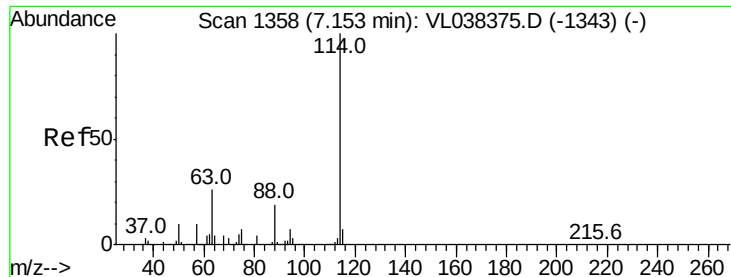


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

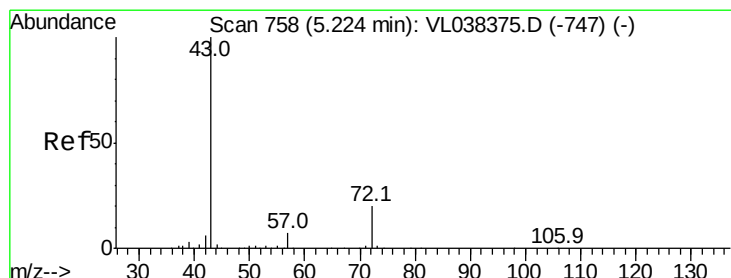
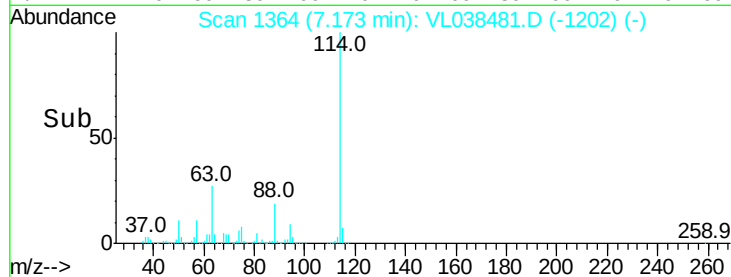
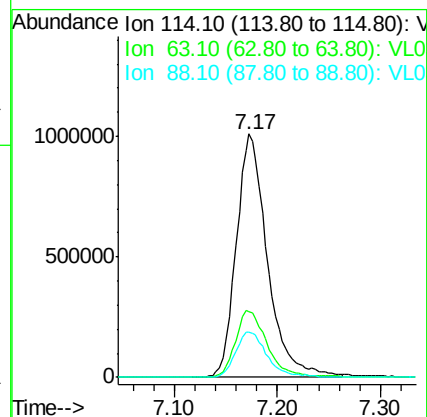
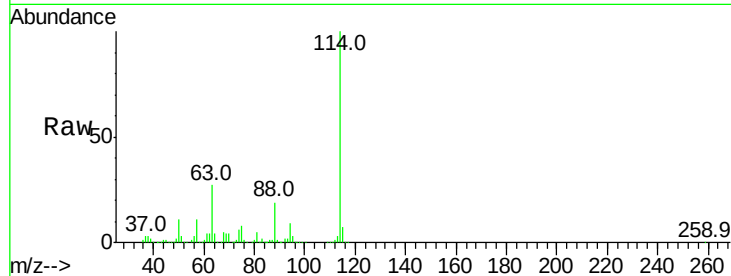




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 FSG1DL2
 Acq: 2 Mar 2022 14:28

Tgt Ion: 114 Resp: 2126984

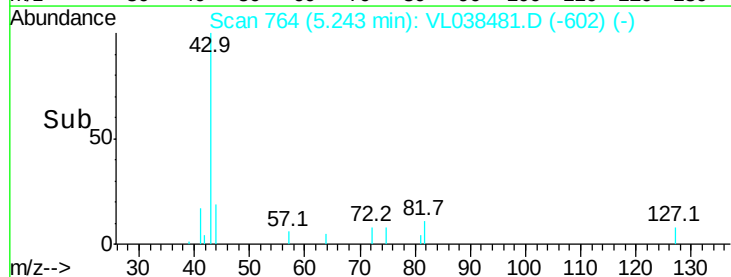
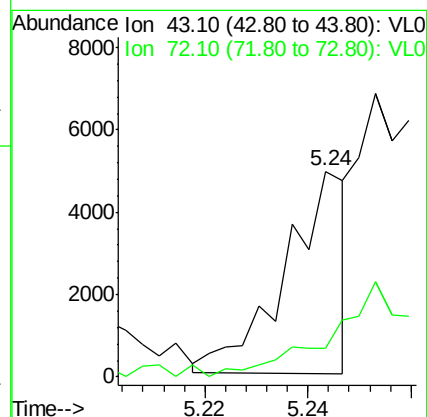
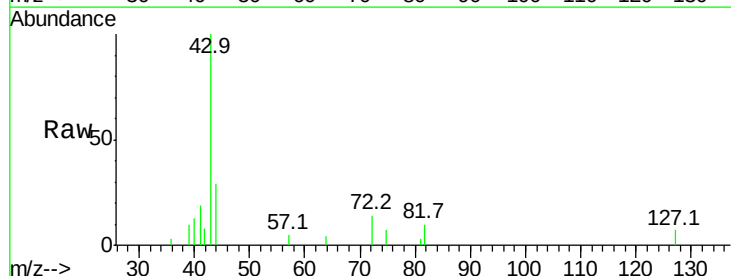
Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.2	33.2
88	19.2	15.2	22.8

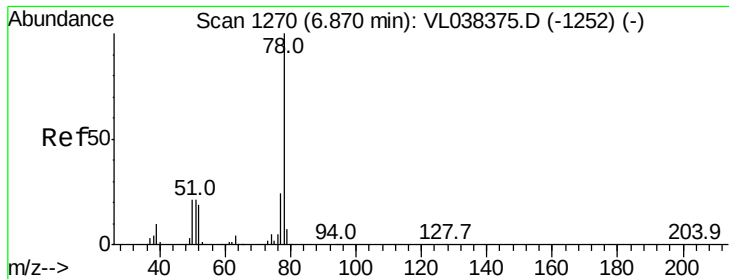


#34
 2-Butanone
 Concen: 0.06 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VL038481.D
 Acq: 2 Mar 2022 14:28

Tgt Ion: 43 Resp: 4031

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.2#





#36

Benzene

Concen: 0.33 ppbv

RT: 6.89 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 2 Mar 2022 14:28 FSG1DL2

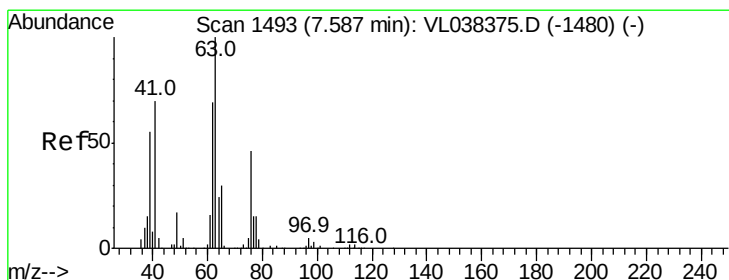
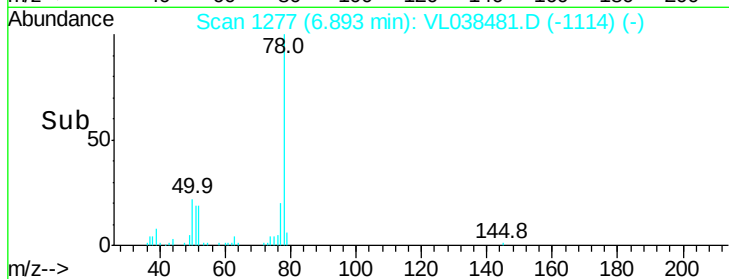
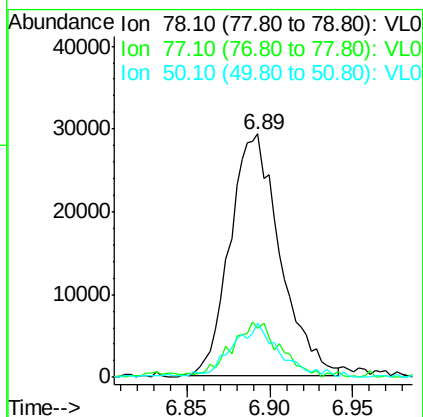
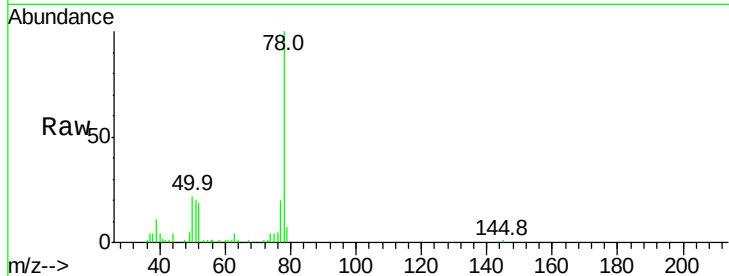
Tgt Ion: 78 Resp: 61450

Ion Ratio Lower Upper

78 100

77 18.8 19.0 28.6#

50 22.1 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.80 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.42 min

Lab File: VL038481.D

Acq: 2 Mar 2022 14:28

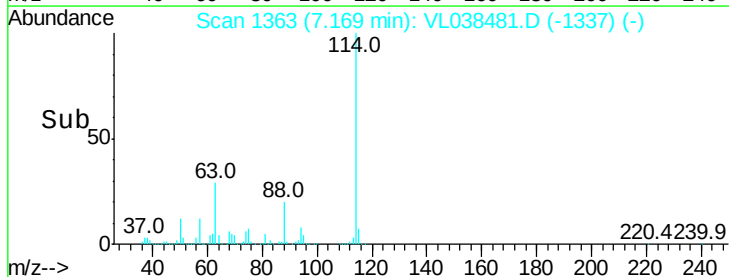
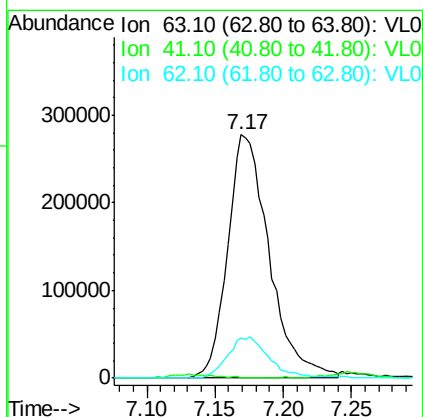
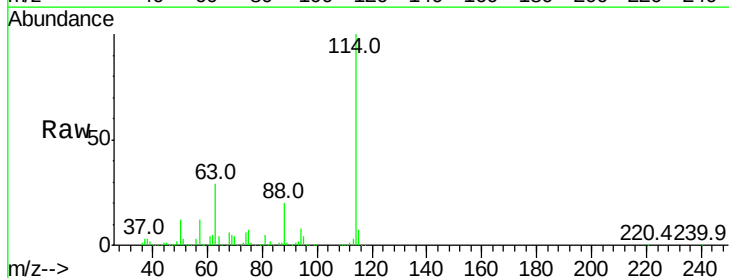
Tgt Ion: 63 Resp: 581710

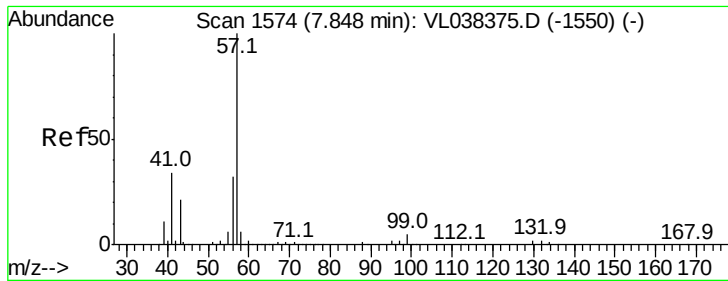
Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

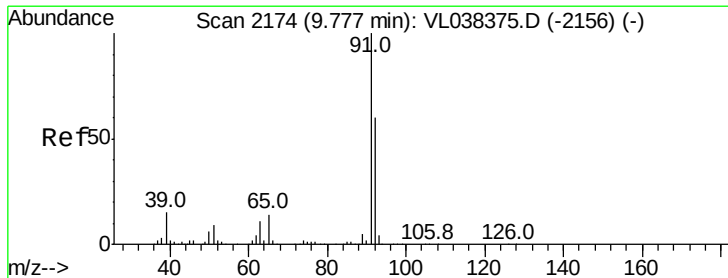
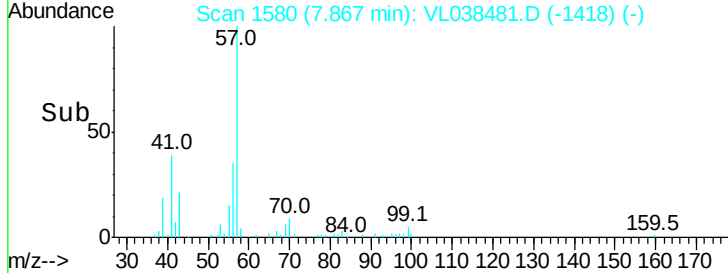
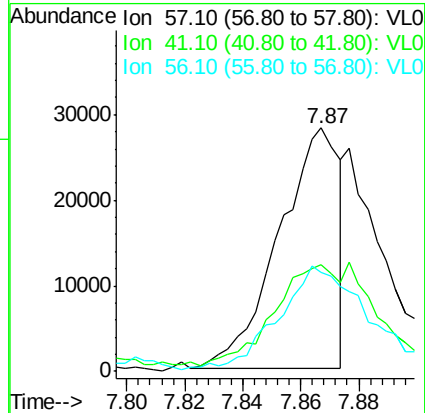
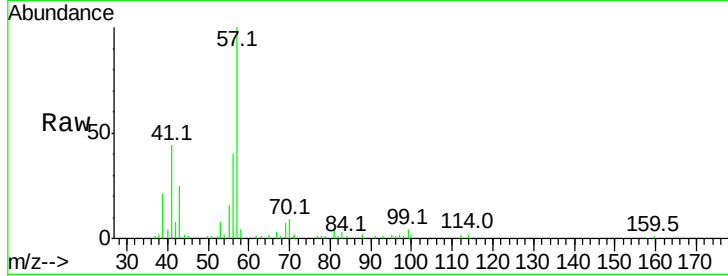
62 16.4 55.5 83.3#





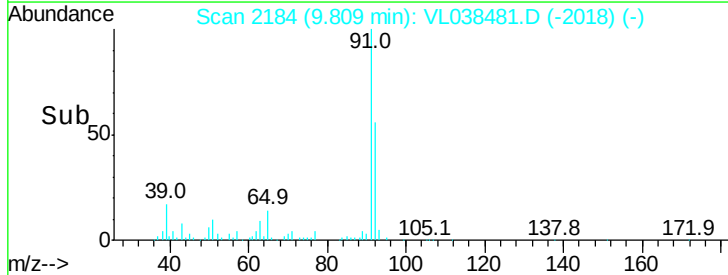
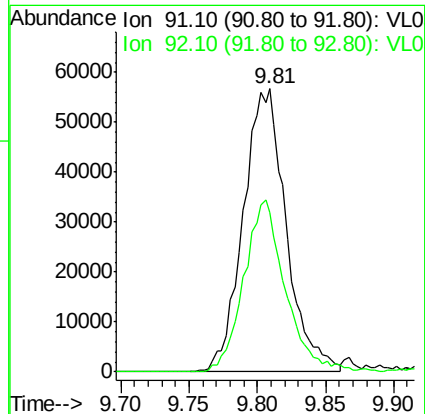
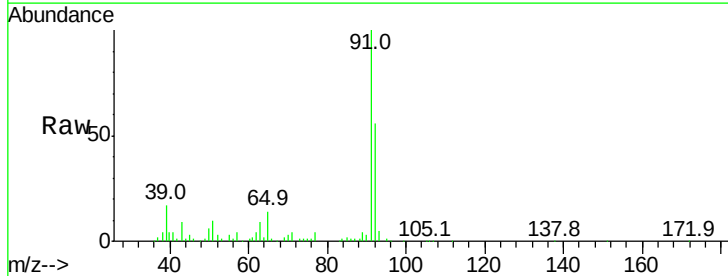
#44
 2,2,4-Trimethylpentane
 Concen: 0.13 ppbv
 RT: 7.87
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 FSG1DL2
 Acq: 2 Mar 2022 14:28

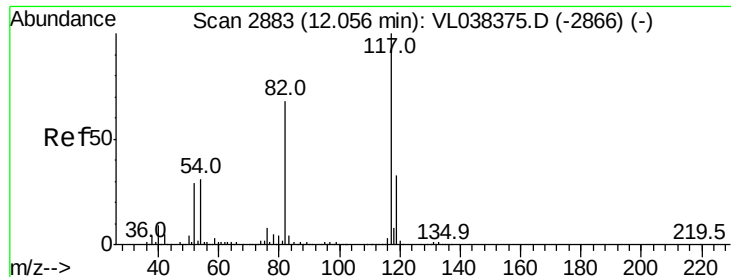
Tgt Ion: 57 Resp: 40789
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.6 39.8#
 56 67.8 25.0 37.6#



#53
 Toluene
 Concen: 0.61 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.03 min
 Lab File: VL038481.D
 Acq: 2 Mar 2022 14:28

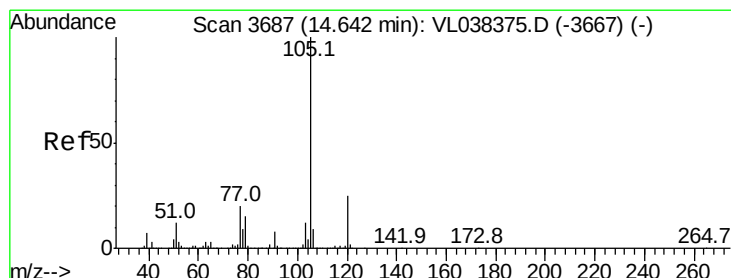
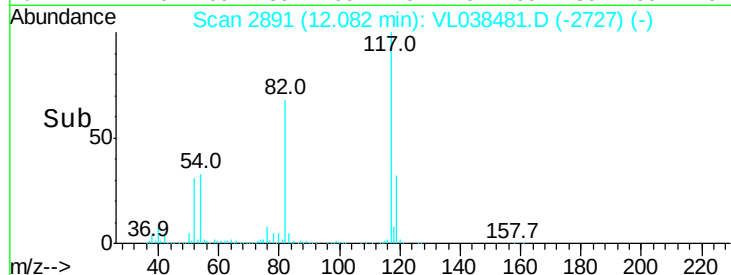
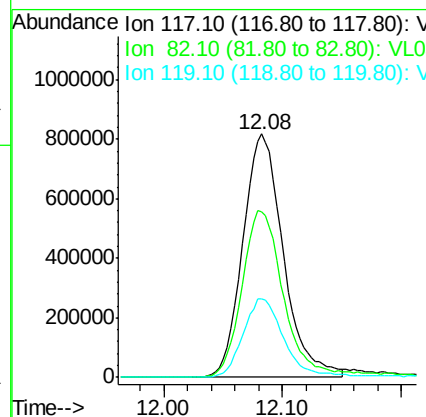
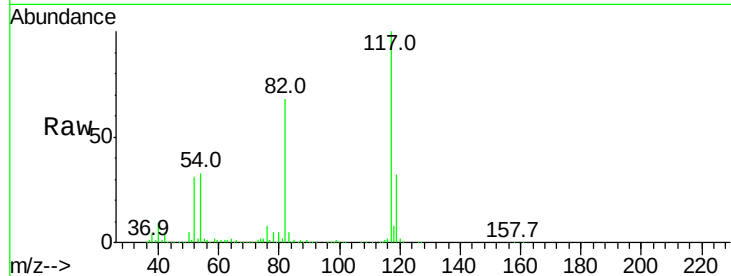
Tgt Ion: 91 Resp: 124150
 Ion Ratio Lower Upper
 91 100
 92 58.7 48.2 72.4





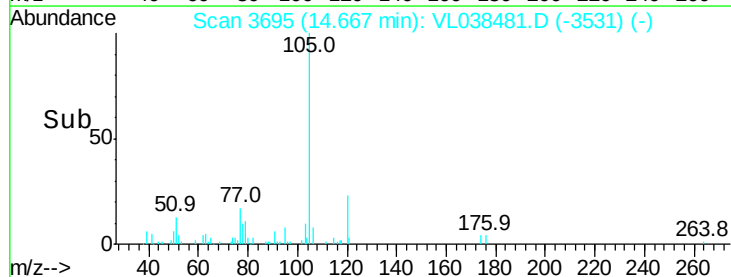
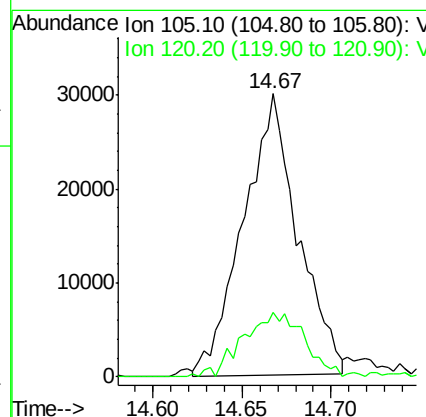
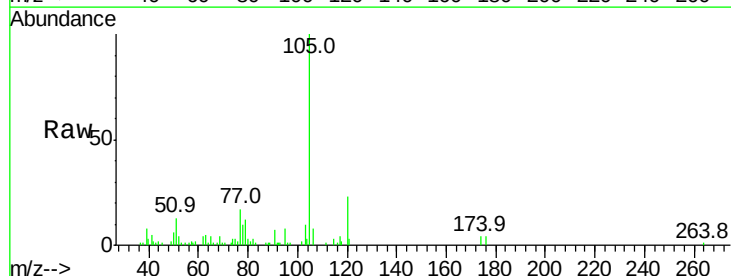
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : FSG1DL2
 Acq: 2 Mar 2022 14:28

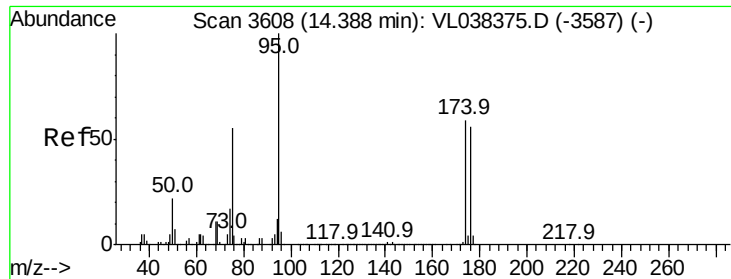
Tgt Ion:117 Resp: 1925448
 Ion Ratio Lower Upper
 117 100
 82 73.4 54.9 82.3
 119 34.0 46.1 69.1#



#62
 Isopropylbenzene
 Concen: 0.22 ppbv
 RT: 14.67 min Scan# 3695
 Delta R.T.: 0.03 min
 Lab File: VL038481.D
 Acq: 2 Mar 2022 14:28

Tgt Ion:105 Resp: 64085
 Ion Ratio Lower Upper
 105 100
 120 26.9 20.6 30.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.92 ppbv

RT: 14.41 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

FSG1DL2

Acq: 2 Mar 2022 14.28

Tgt Ion: 95 Resp: 1580610

Ion Ratio Lower Upper

95 100

174 60.8 49.0 73.4

175 4.5 3.6 5.4

