

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030222\
 Data File : VL038491.D
 Acq On : 2 Mar 2022 21:01
 Operator : SY/AP
 Sample : N1724-03DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Quant Time: Mar 02 22:40:59 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	5.67	49	885670	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2327448	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2102336	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1747457	10.05	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

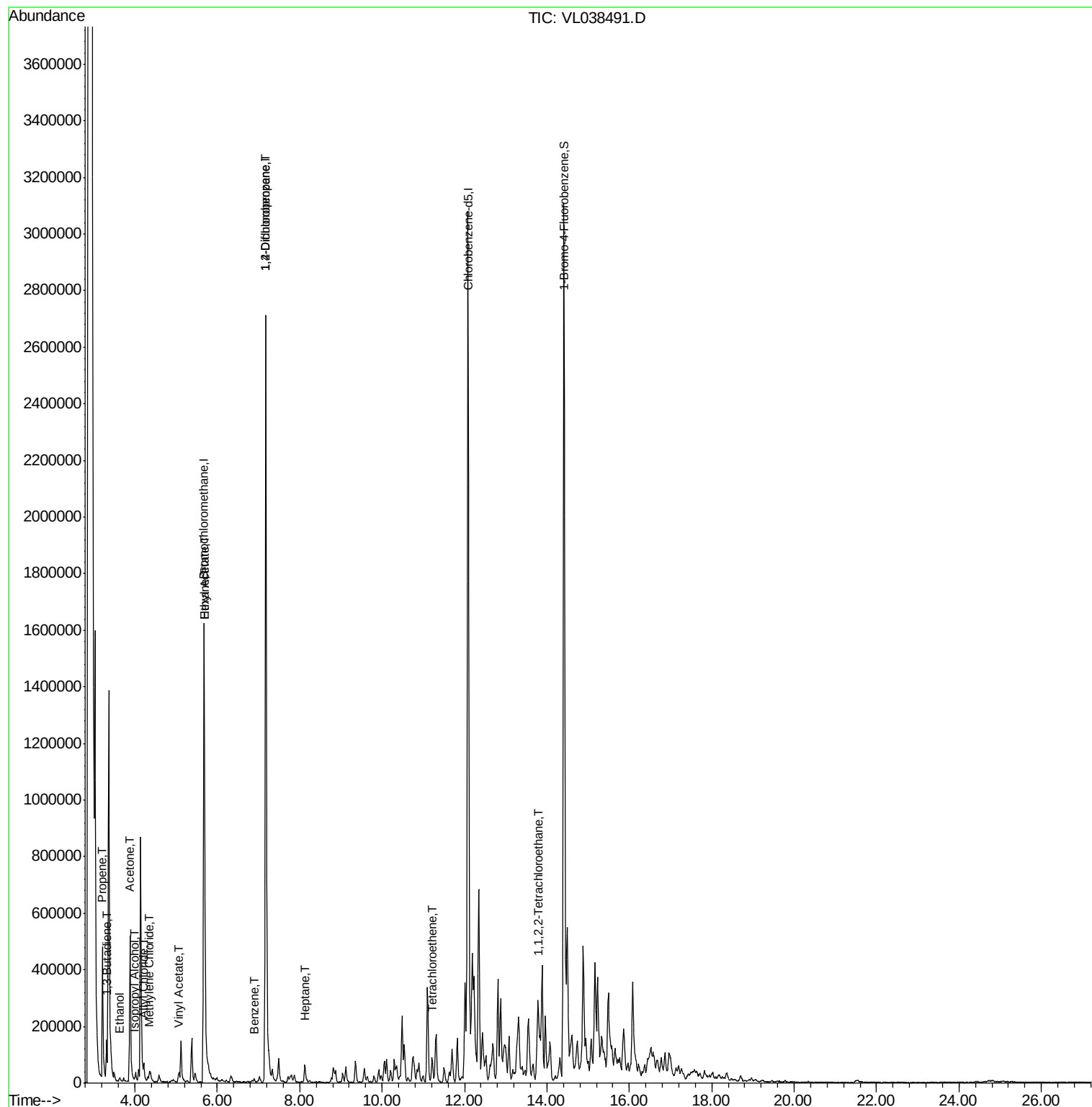
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.21	41	172008	3.33	ppbv	97
10) Heptane	8.13	43	15497	0.12	ppbv #	28
13) Ethanol	3.61	45	3902	0.76	ppbv #	31
15) Acetone	3.88	43	258274	3.43	ppbv #	66
16) 1,3-Butadiene	3.31	39	44020	0.87	ppbv #	48
19) Isopropyl Alcohol	3.99	45	1758	0.04	ppbv #	93
20) Methylene Chloride	4.35	84	5111	0.14	ppbv #	80
21) Allyl Chloride	4.22	41	5697	0.09	ppbv #	1
23) Vinyl Acetate	5.06	43	7378	0.07	ppbv #	1
25) Ethyl Acetate	5.69	43	113138	0.56	ppbv #	78
26) Hexane	5.69	57	158436	1.73	ppbv #	44
36) Benzene	6.89	78	8050	0.04	ppbv #	76
39) 1,2-Dichloropropane	7.18	63	567133	6.95	ppbv #	25
52) Tetrachloroethene	11.22	164	5182	0.08	ppbv	90
63) 1,1,2,2-Tetrachloroethane	13.78	83	23959	0.13	ppbv #	56

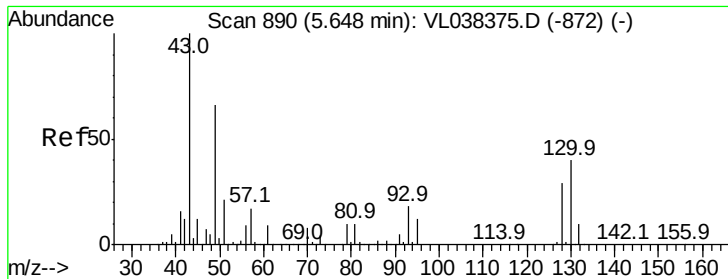
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 21:01

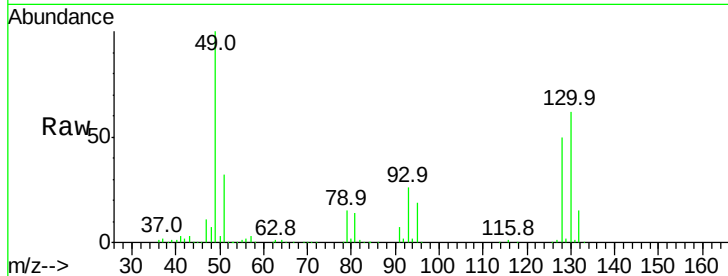
Tgt Ion: 49 Resp: 885670

Ion Ratio Lower Upper

49 100

128 50.8 24.3 72.9

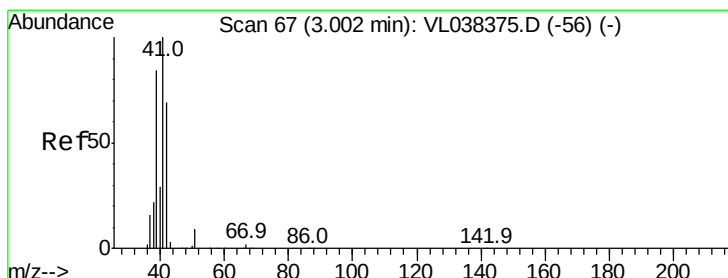
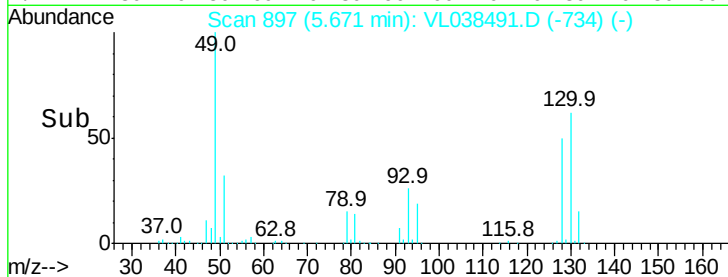
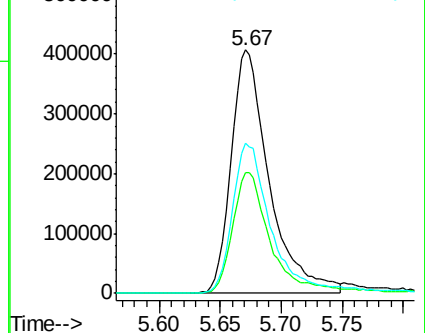
130 64.5 30.1 90.5



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: 3.33 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.21 min

Lab File: VL038491.D

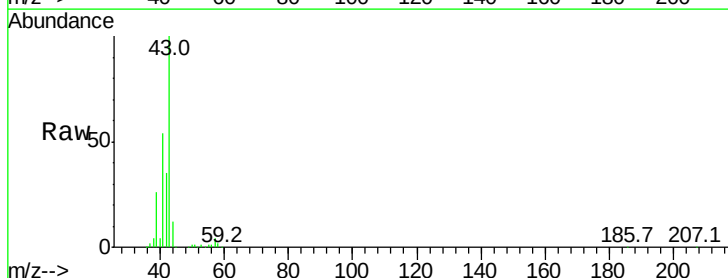
Acq: 2 Mar 2022 21:01

Tgt Ion: 41 Resp: 172008

Ion Ratio Lower Upper

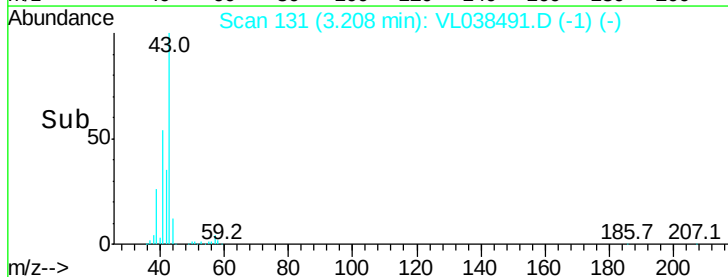
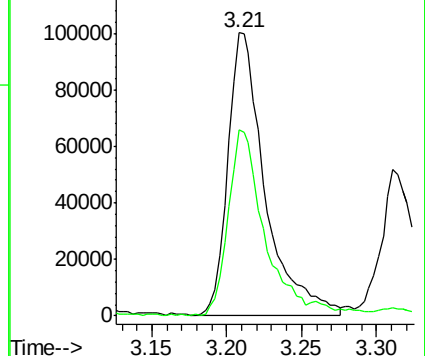
41 100

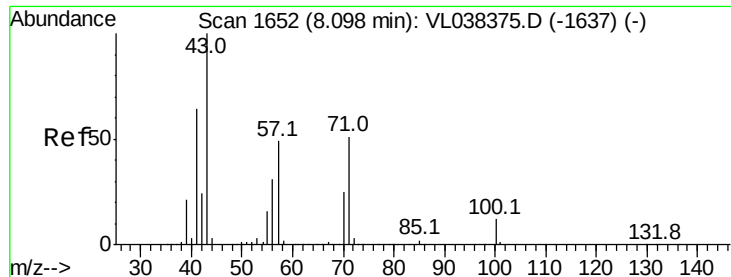
42 65.7 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.12 ppbv

RT: 8.13 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: SV-3DL

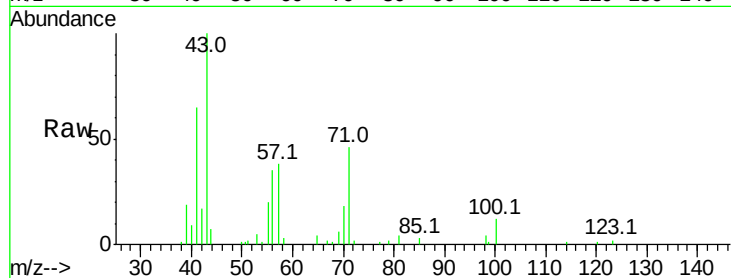
Acq: 2 Mar 2022 21:01

Tgt Ion: 43 Resp: 15497

Ion Ratio Lower Upper

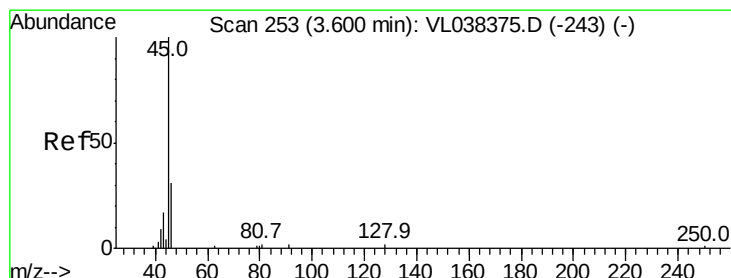
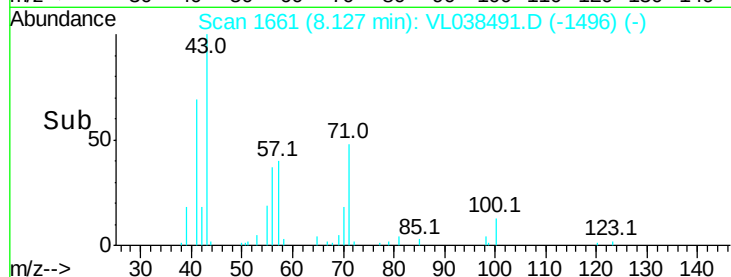
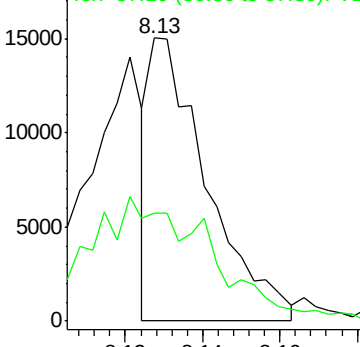
43 100

57 0.0 39.8 59.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.76 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL038491.D

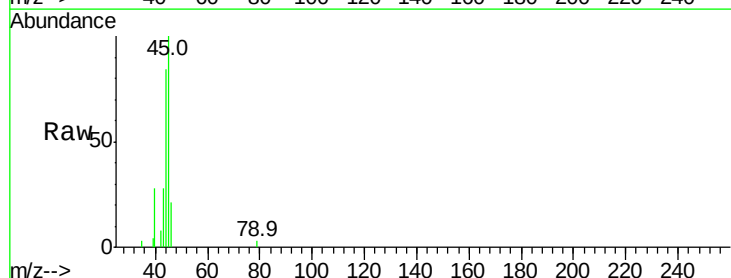
Acq: 2 Mar 2022 21:01

Tgt Ion: 45 Resp: 3902

Ion Ratio Lower Upper

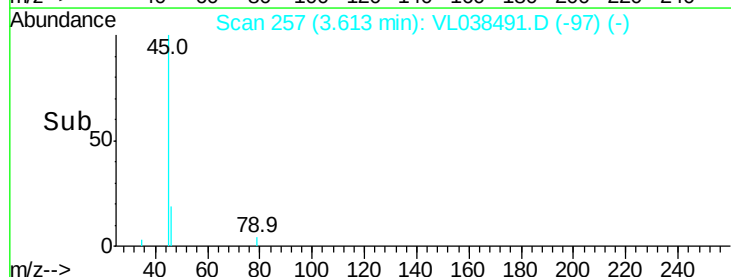
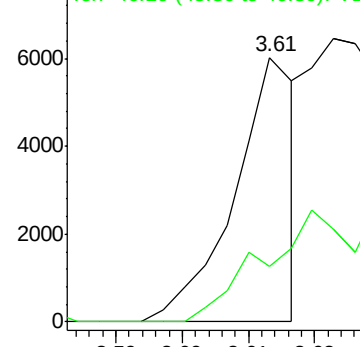
45 100

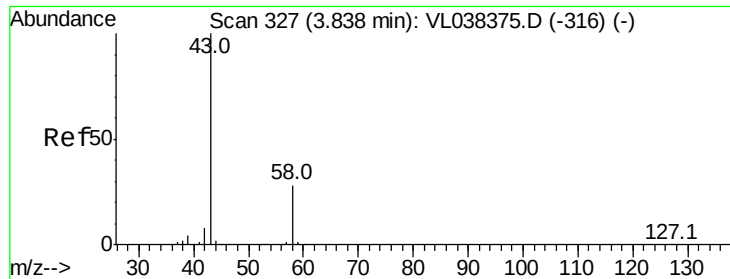
46 0.0 18.2 72.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.43 ppbv

RT: 3.88 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-3DL

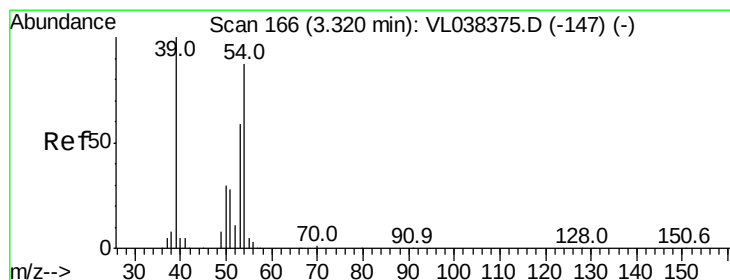
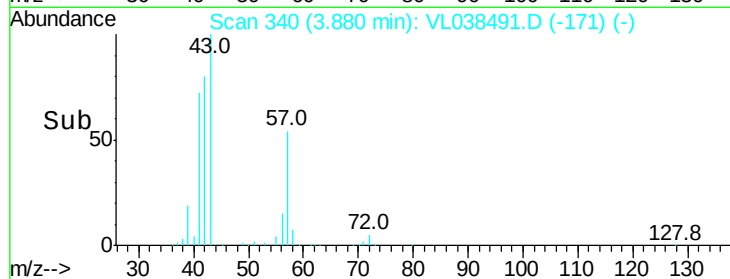
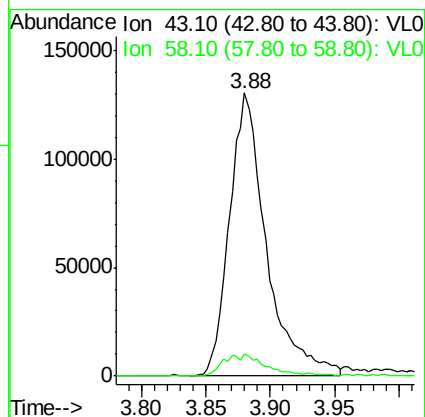
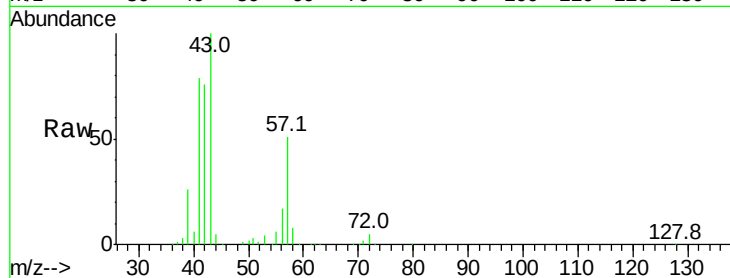
Acq: 2 Mar 2022 21:01

Tgt Ion: 43 Resp: 258274

Ion Ratio Lower Upper

43 100

58 9.2 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.87 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038491.D

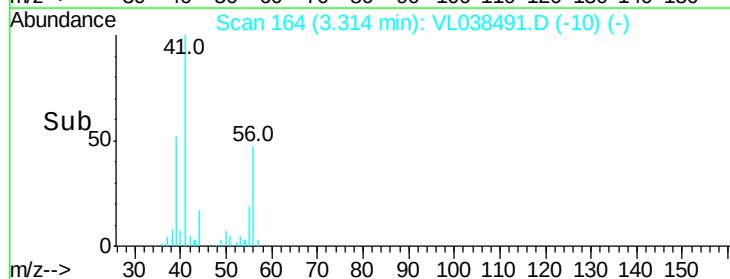
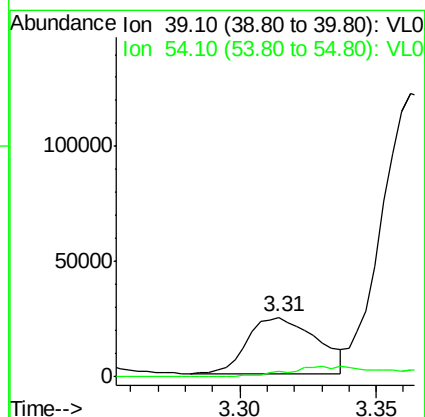
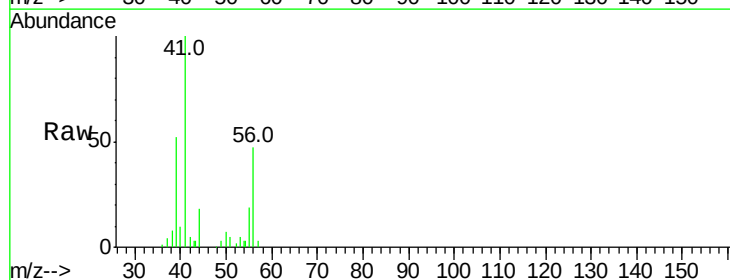
Acq: 2 Mar 2022 21:01

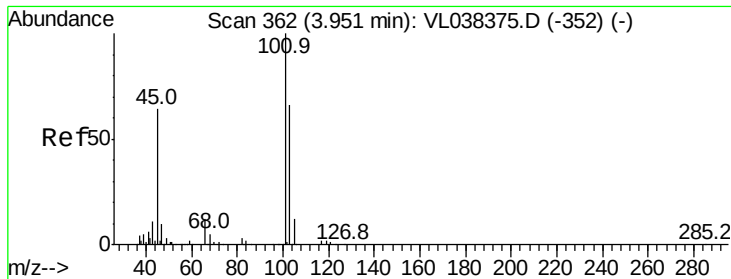
Tgt Ion: 39 Resp: 44020

Ion Ratio Lower Upper

39 100

54 30.9 60.3 90.5#





#19

Isopropyl Alcohol

Concen: 0.04 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

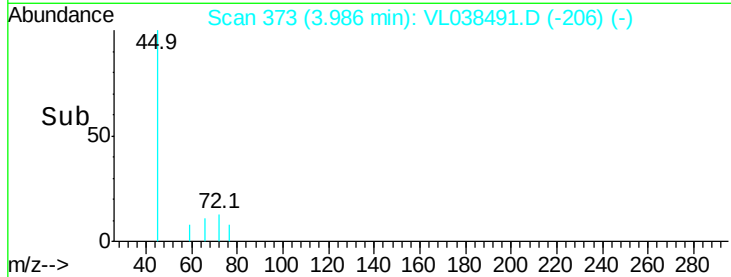
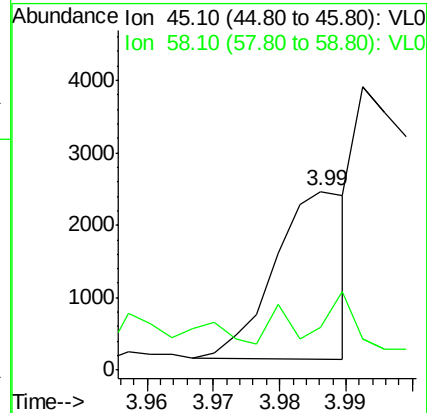
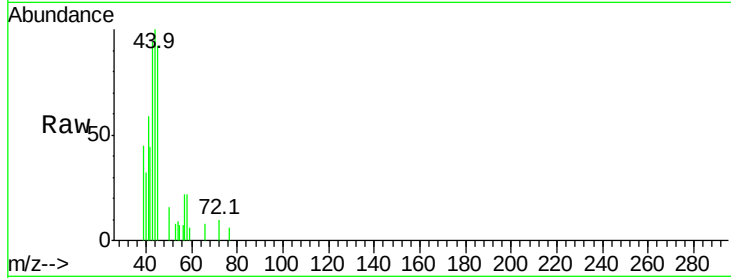
Acq: 2 Mar 2022 21:01 SV-3DL

Tgt Ion: 45 Resp: 1758

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.14 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL038491.D

Acq: 2 Mar 2022 21:01

Tgt Ion: 84 Resp: 5111

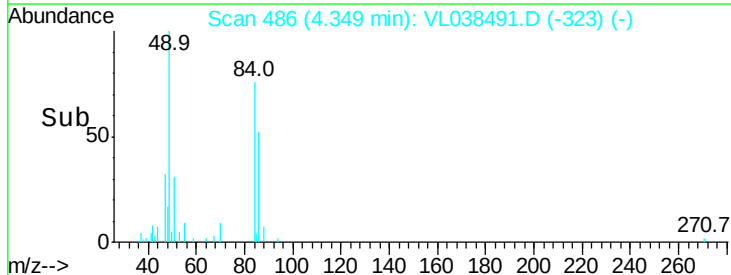
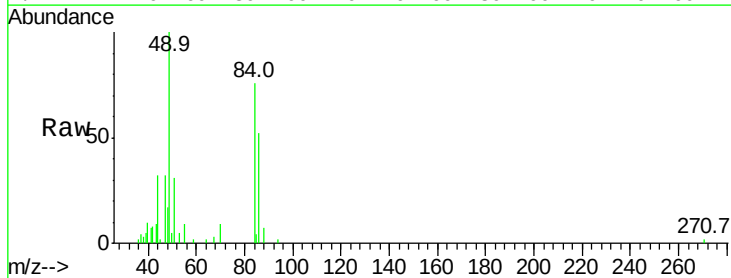
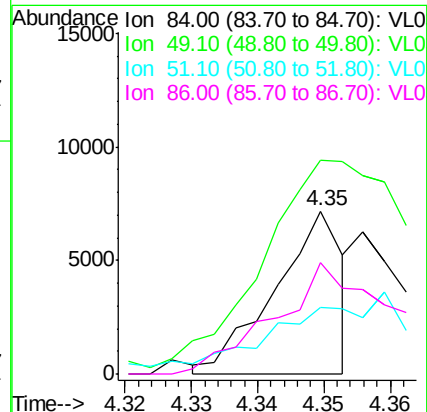
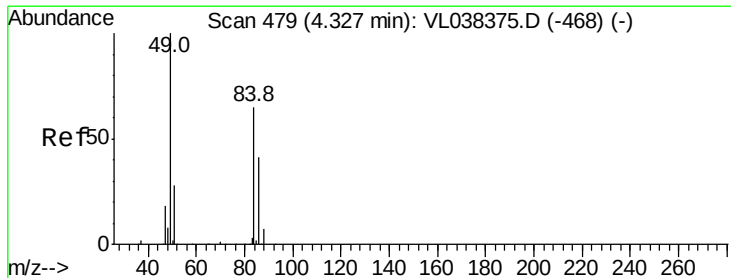
Ion Ratio Lower Upper

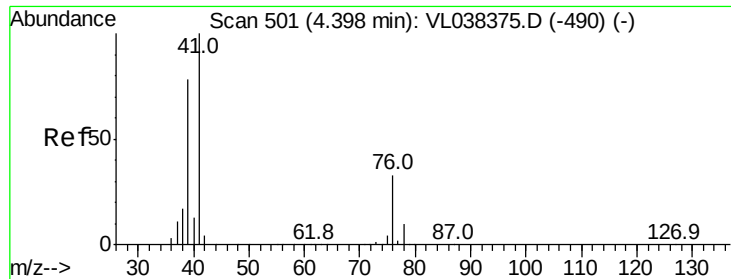
84 100

49 116.7 122.4 183.6#

51 36.2 33.3 49.9

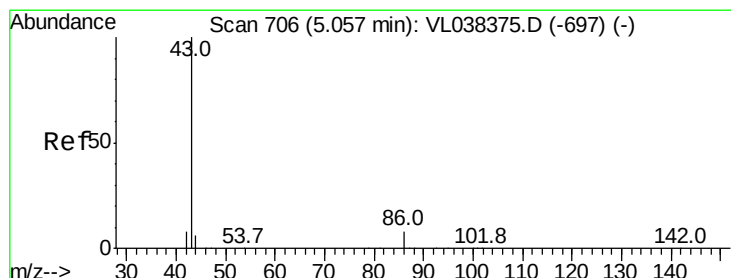
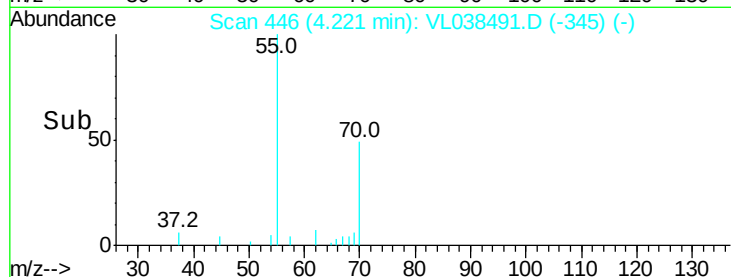
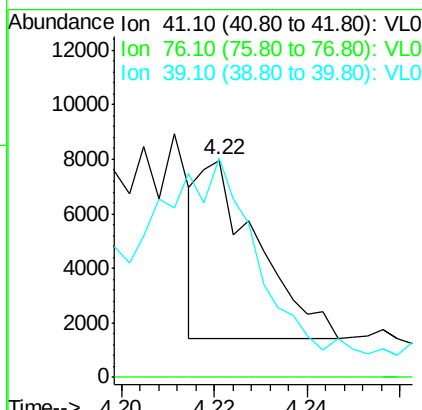
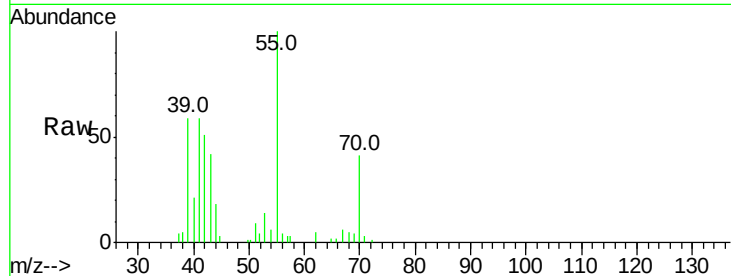
86 68.9 50.7 76.1





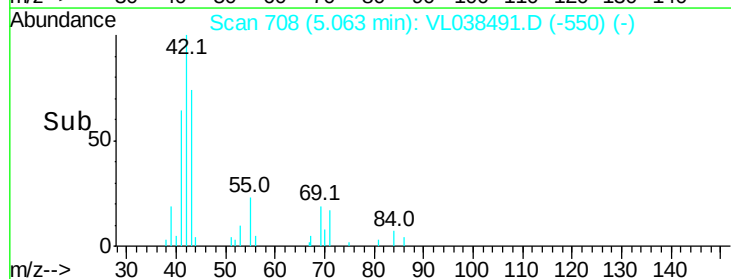
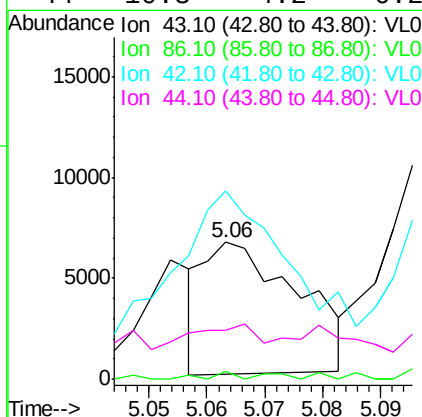
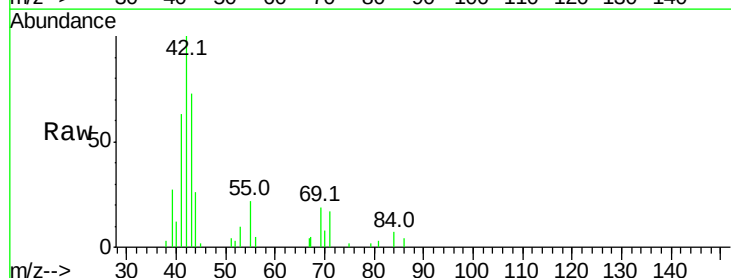
#21
 Allyl Chloride
 Concen: 0.09 ppbv
 RT: 4.22
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-3DL
 Acq: 2 Mar 2022 21:01

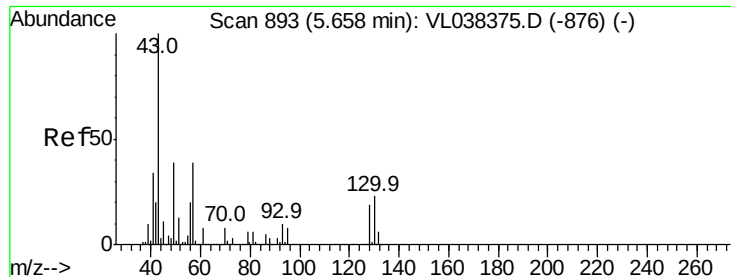
Tgt Ion: 41 Resp: 5697
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.0#
 39 238.5 63.0 94.6#



#23
 Vinyl Acetate
 Concen: 0.07 ppbv
 RT: 5.06 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VL038491.D
 Acq: 2 Mar 2022 21:01

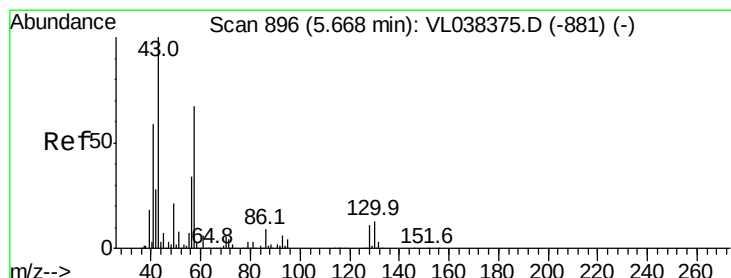
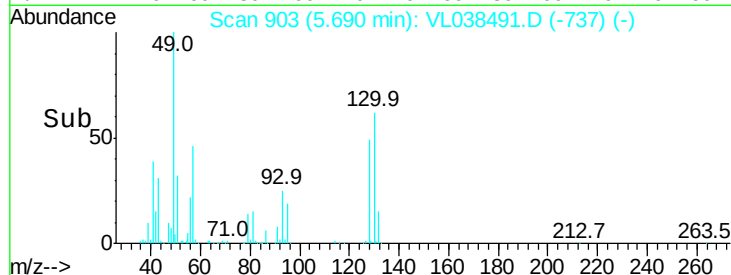
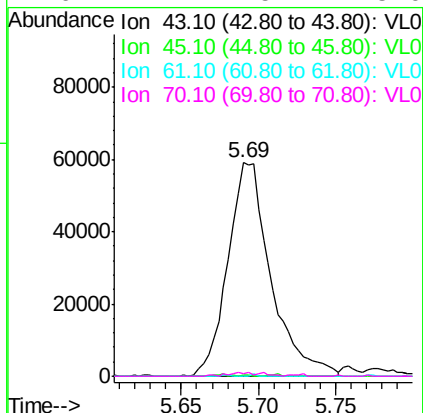
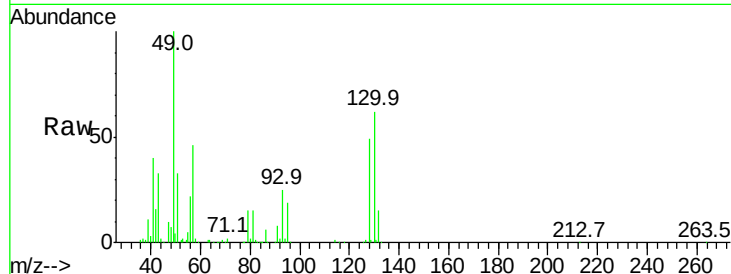
Tgt Ion: 43 Resp: 7378
 Ion Ratio Lower Upper
 43 100
 86 9.6 5.8 8.6#
 42 132.7 7.4 11.0#
 44 10.3 4.2 6.2#





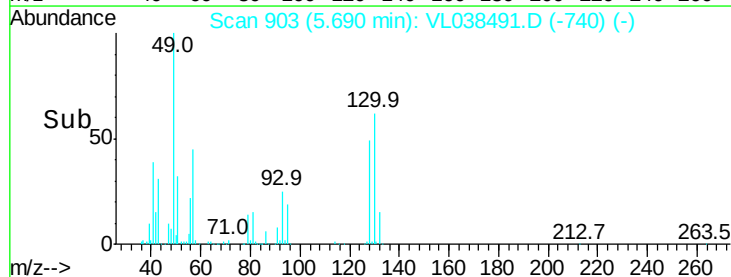
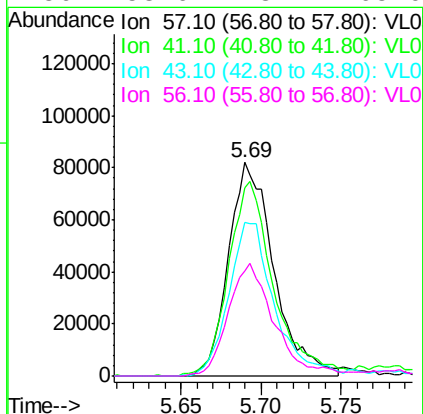
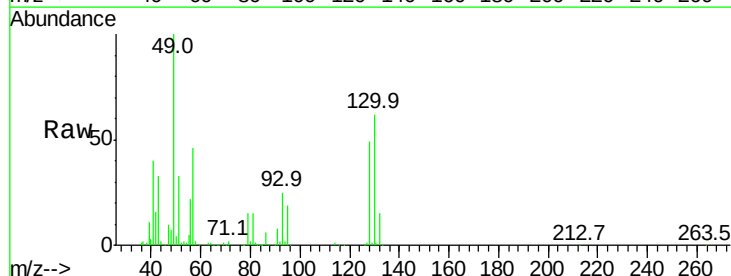
#25
Ethyl Acetate
Concen: 0.56 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-3DL
Acq: 2 Mar 2022 21:01

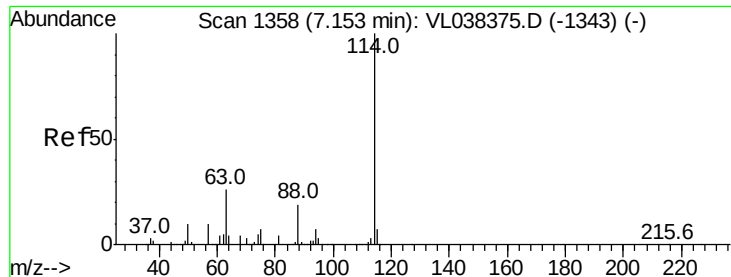
Tgt Ion:	43	Resp:	113138
Ion	Ratio	Lower	Upper
43	100		
45	0.7	7.8	11.6#
61	0.3	7.5	11.3#
70	1.7	5.4	8.0#



#26
Hexane
Concen: 1.73 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL038491.D
Acq: 2 Mar 2022 21:01

Tgt Ion:	57	Resp:	158436
Ion	Ratio	Lower	Upper
57	100		
41	92.9	73.1	109.7
43	75.8	181.0	271.4#
56	53.6	43.4	65.0

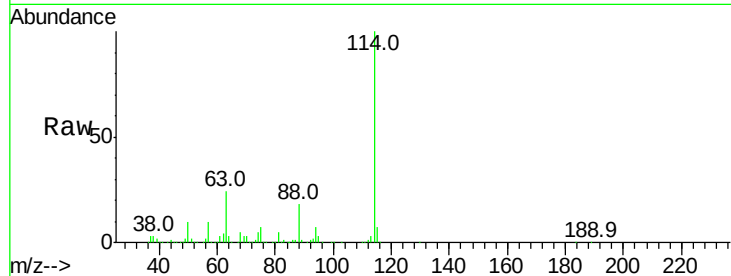




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 21:01

Tgt Ion: 114 Resp: 2327448

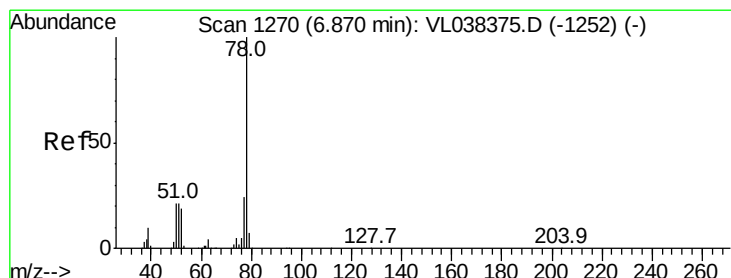
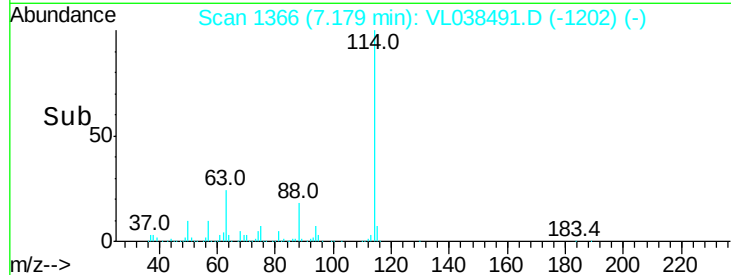
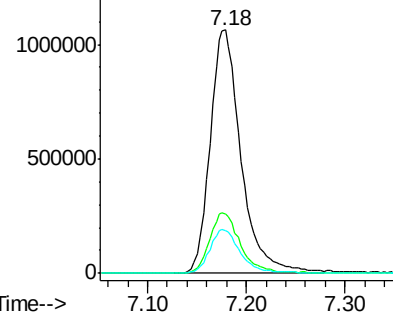
Ion	Ratio	Lower	Upper
114	100		
63	25.2	22.2	33.2
88	18.2	15.2	22.8



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

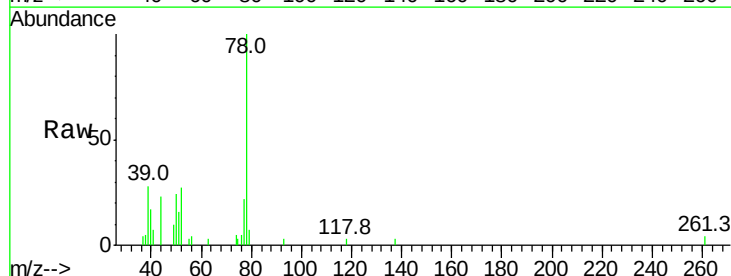
Ion 88.10 (87.80 to 88.80): VL0



#36
 Benzene
 Concen: 0.04 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. 0.02 min
 Lab File: VL038491.D
 Acq: 2 Mar 2022 21:01

Tgt Ion: 78 Resp: 8050

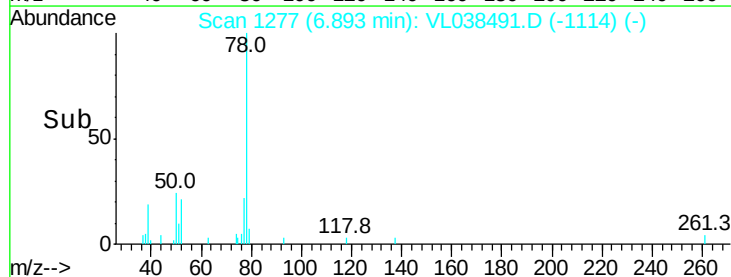
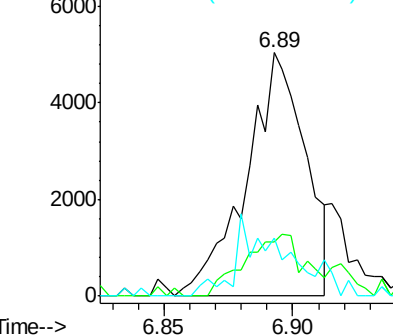
Ion	Ratio	Lower	Upper
78	100		
77	19.1	19.0	28.6
50	39.6	16.6	24.8#

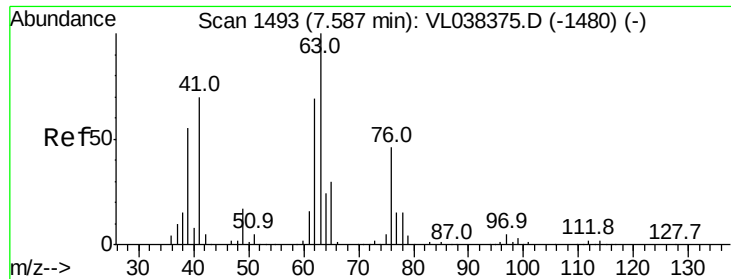


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 6.95 ppbv

RT: 7.18 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 2 Mar 2022 21:01

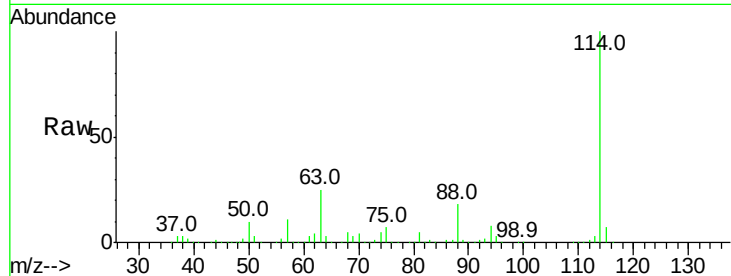
Tgt Ion: 63 Resp: 567133

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

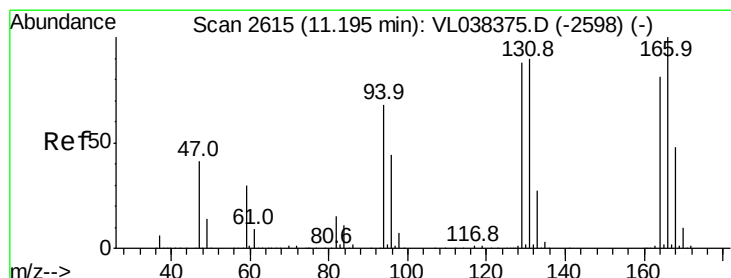
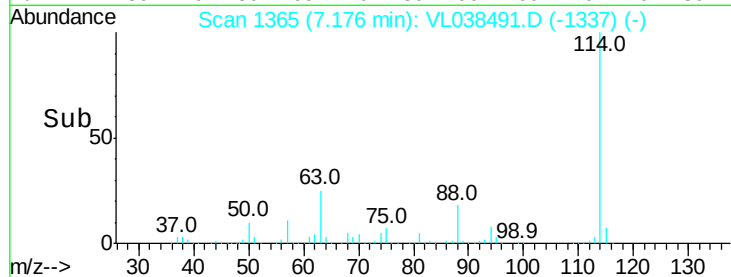
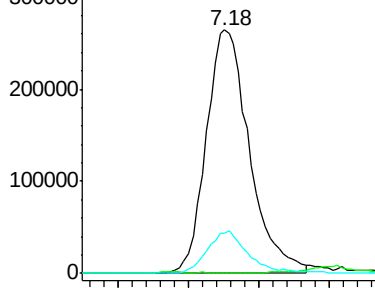
62 16.5 55.5 83.3#



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



#52

Tetrachloroethene

Concen: 0.08 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. 0.03 min

Lab File: VL038491.D

Acq: 2 Mar 2022 21:01

Tgt Ion:164 Resp: 5182

Ion Ratio Lower Upper

164 100

166 118.9 98.6 148.0

129 99.7 86.9 130.3

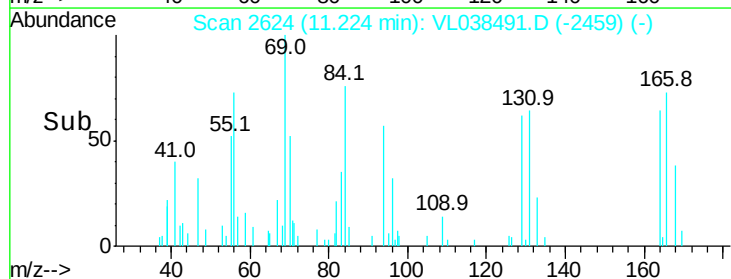
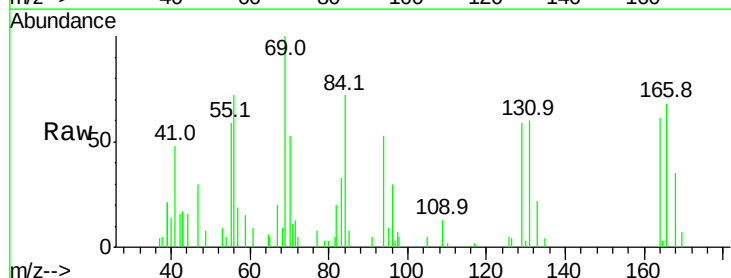
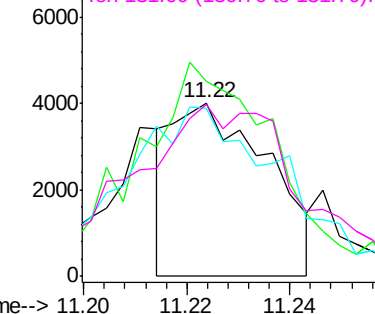
131 90.2 88.6 133.0

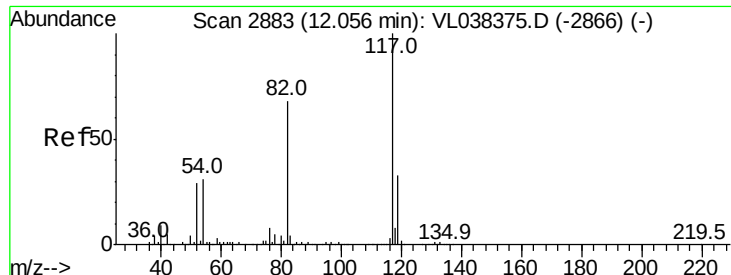
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

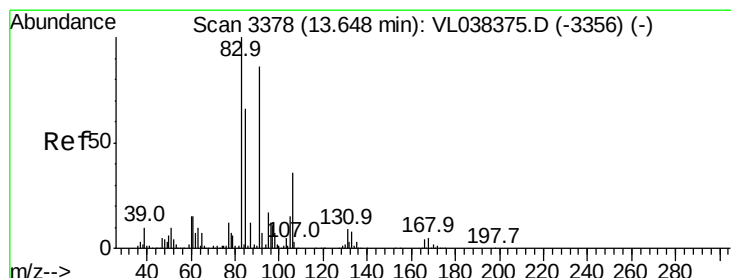
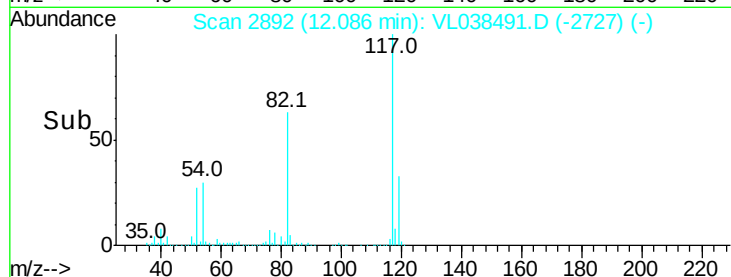
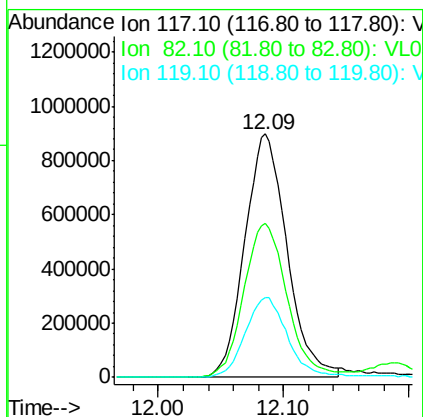
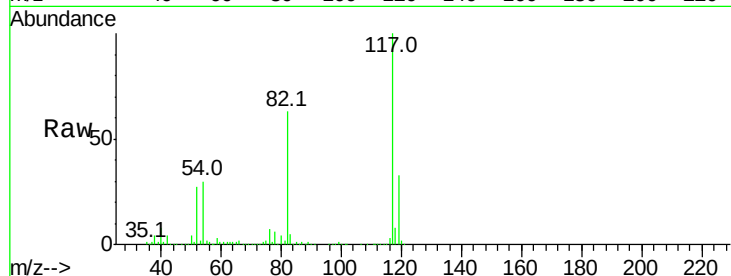
Ion 131.00 (130.70 to 131.70): V





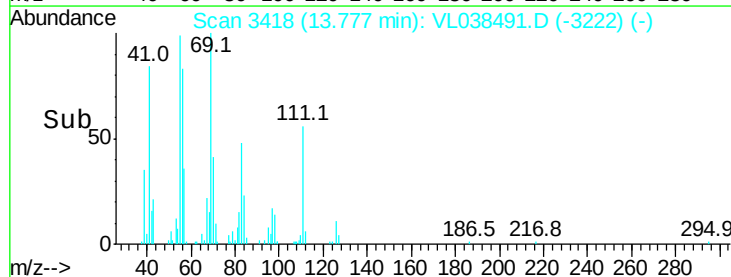
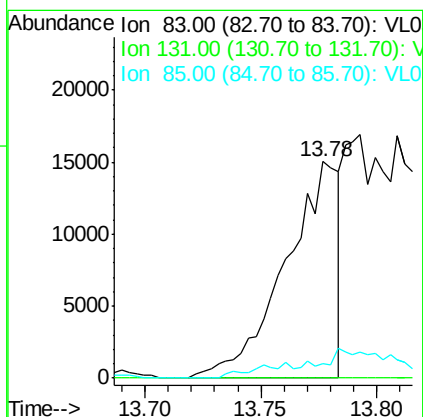
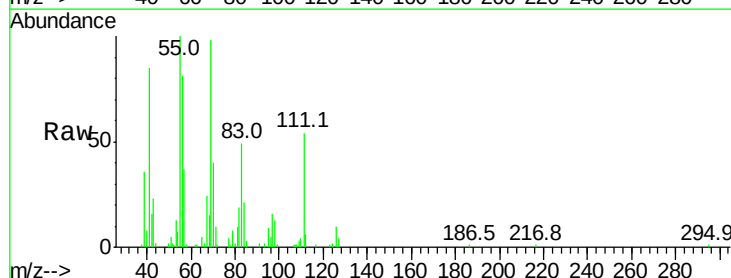
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV-3DL
 Acq: 2 Mar 2022 21:01

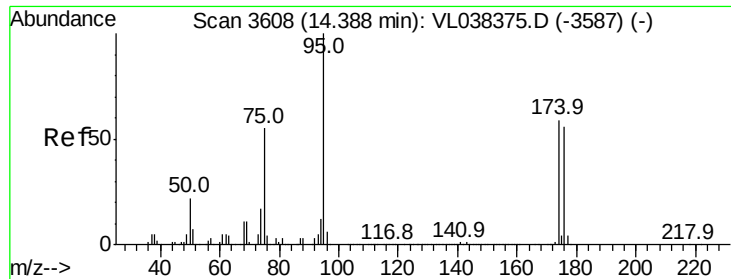
Tgt Ion: 117 Resp: 2102336
 Ion Ratio Lower Upper
 117 100
 82 64.8 54.9 82.3
 119 33.9 46.1 69.1#



#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.13 ppbv
 RT: 13.78 min Scan# 3418
 Delta R.T.: 0.13 min
 Lab File: VL038491.D
 Acq: 2 Mar 2022 21:01

Tgt Ion: 83 Resp: 23959
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.5 13.7#
 85 28.7 33.0 99.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.05 ppbv

RT: 14.41 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 21:01 SV-3DL

Tgt Ion: 95 Resp: 1747457

Ion Ratio Lower Upper

95 100

174 61.7 49.0 73.4

175 4.4 3.6 5.4

