

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL122921\
 Data File : VL038248.D
 Acq On : 30 Dec 2021 1:11
 Operator : SY/AP
 Sample : M5252-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Dec 30 06:23:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	685461	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1692027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1428015	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1134562	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

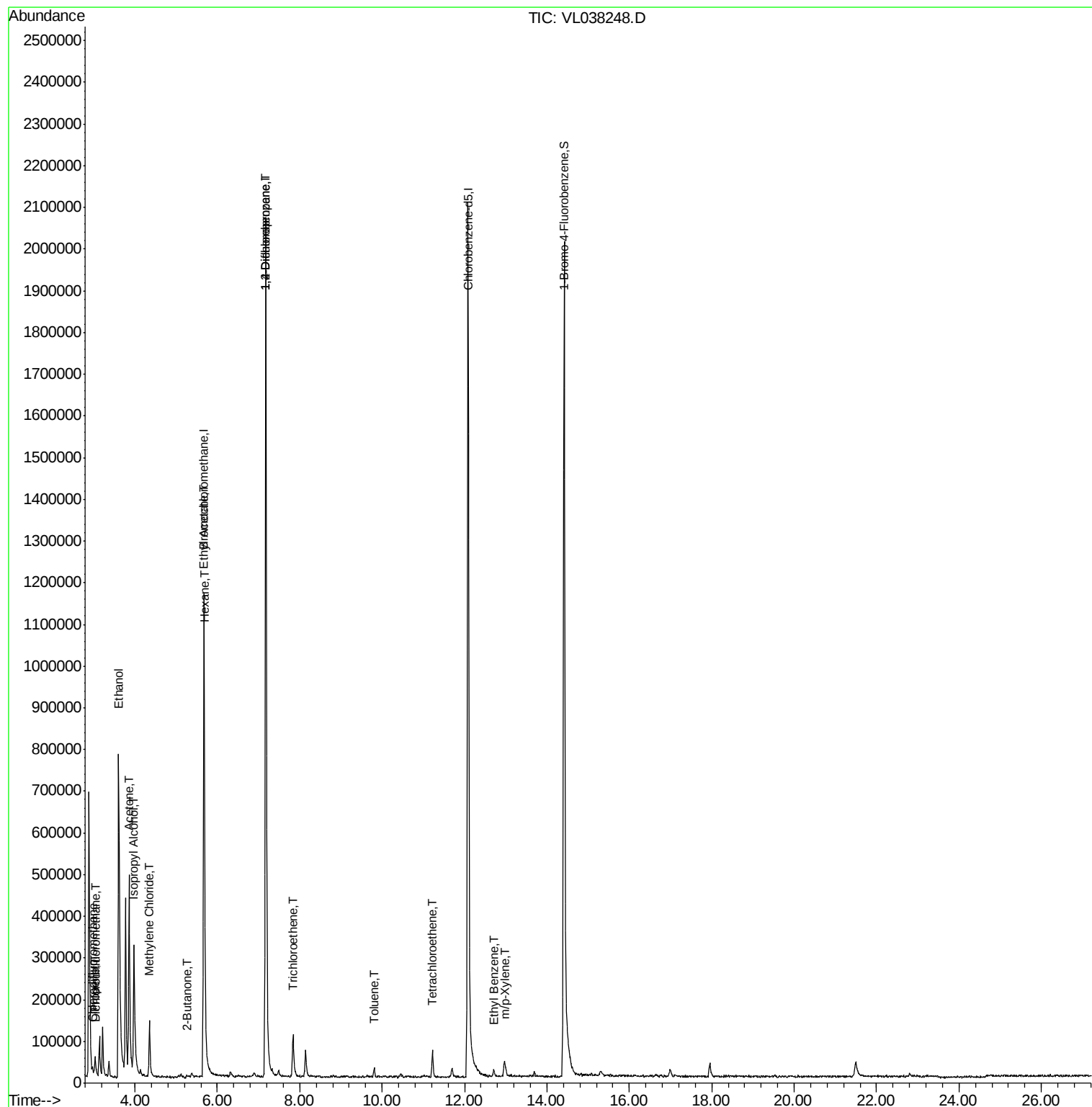
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	6404	0.050	ppbv	99
3) Chlorodifluoromethane	2.97	51	18201	0.126	ppbv #	76
9) Propene	3.03	41	14940	0.299	ppbv	87
13) Ethanol	3.60	45	1083415	127.773	ppbv #	100
15) Acetone	3.86	43	629974	9.157	ppbv	95
19) Isopropyl Alcohol	3.97	45	450029	10.488	ppbv #	39
20) Methylene Chloride	4.35	84	52983	1.364	ppbv #	84
25) Ethyl Acetate	5.69	43	41234	0.221	ppbv #	88
26) Hexane	5.69	57	41614	0.445	ppbv #	53
34) 2-Butanone	5.26	43	5290	0.104	ppbv #	74
38) Trichloroethene	7.84	130	29905	0.498	ppbv	95
39) 1,2-Dichloropropane	7.18	63	456083	7.508	ppbv #	26
52) Tetrachloroethene	11.22	164	9236	0.159	ppbv #	88
53) Toluene	9.80	91	6844	0.038	ppbv #	20
58) Ethyl Benzene	12.72	91	6699	0.030	ppbv	95
59) m/p-Xylene	12.99	91	10841	0.057	ppbv #	30

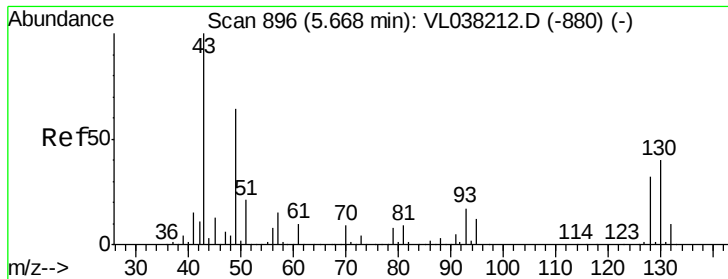
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Dec 2021 1:11

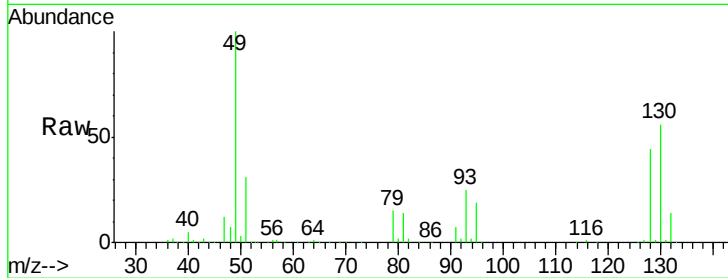
Tgt Ion: 49 Resp: 685461

Ion Ratio Lower Upper

49 100

128 45.0 26.9 80.6

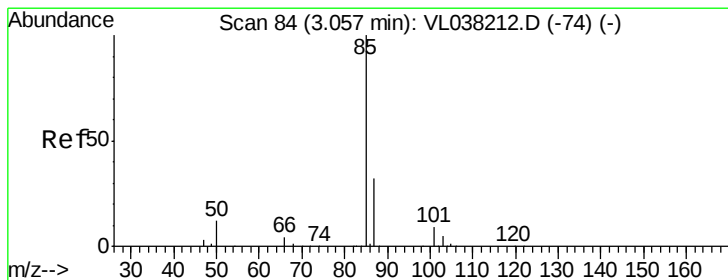
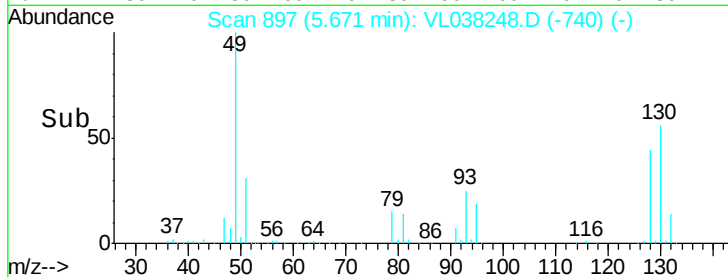
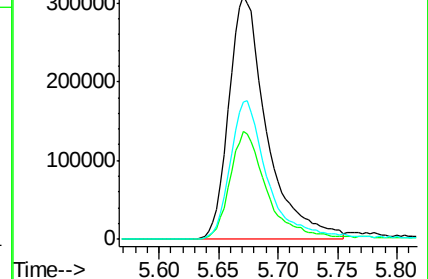
130 58.2 32.3 96.9



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



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038248.D

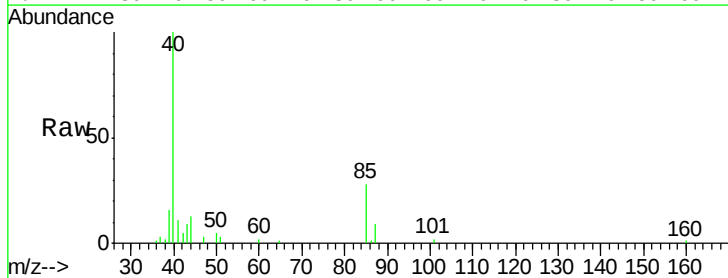
Acq: 30 Dec 2021 1:11

Tgt Ion: 85 Resp: 6404

Ion Ratio Lower Upper

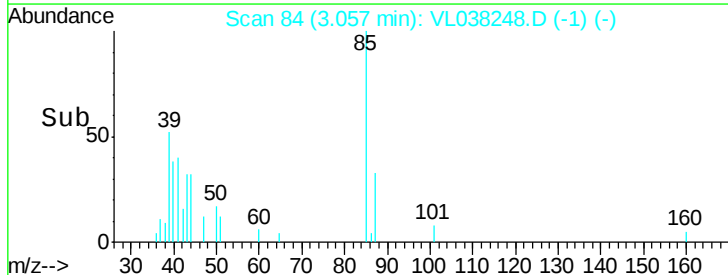
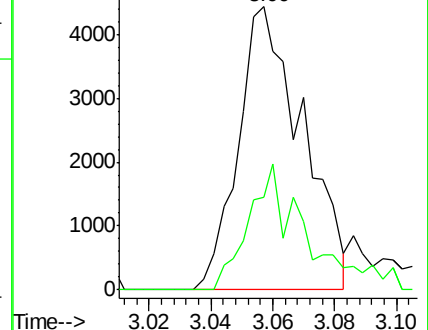
85 100

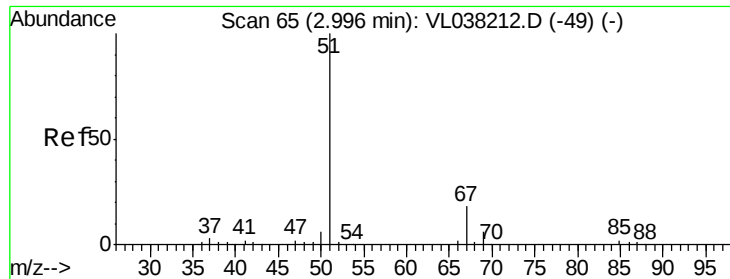
87 32.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

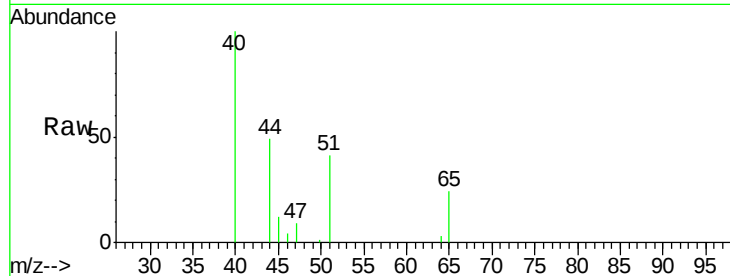
Acq: 30 Dec 2021 1:11

Tgt Ion: 51 Resp: 18201

Ion Ratio Lower Upper

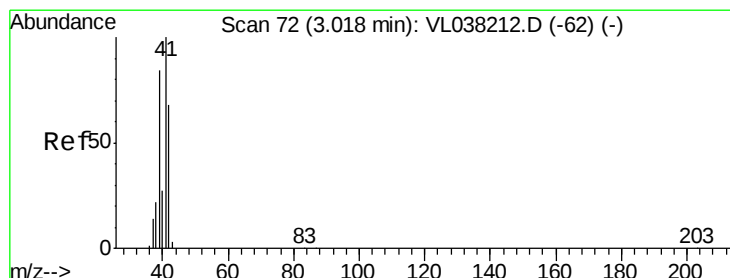
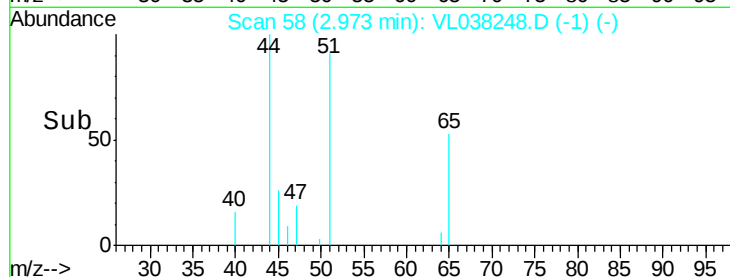
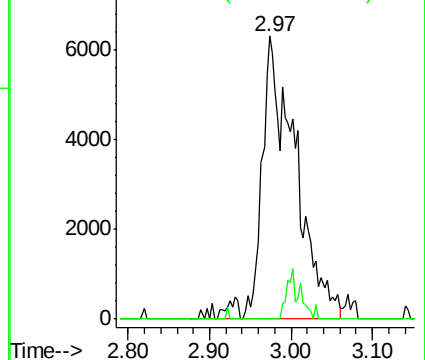
51 100

67 7.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.299 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038248.D

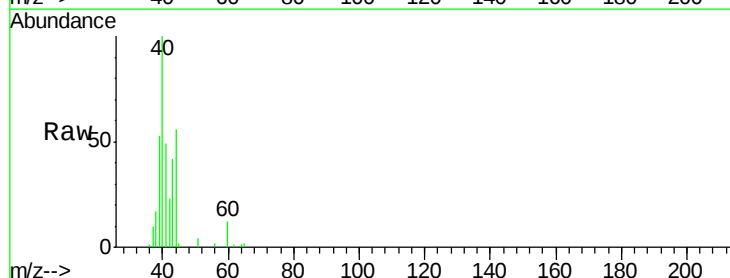
Acq: 30 Dec 2021 1:11

Tgt Ion: 41 Resp: 14940

Ion Ratio Lower Upper

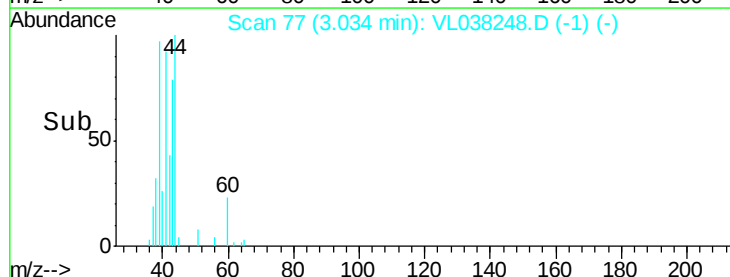
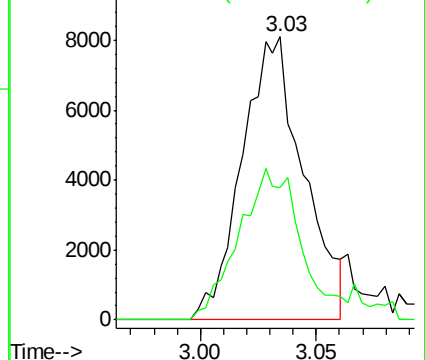
41 100

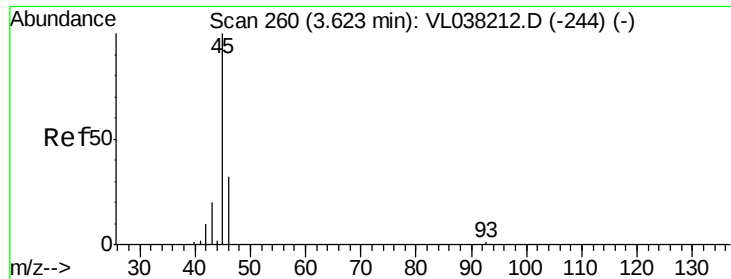
42 58.9 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 127.773 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

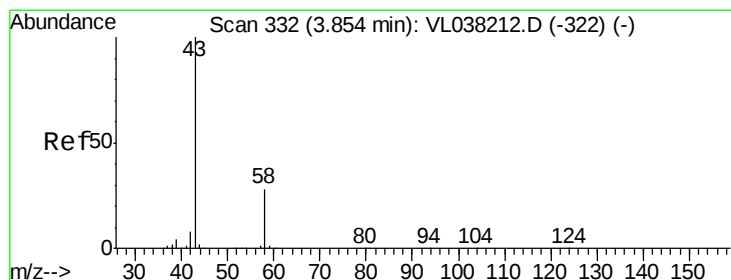
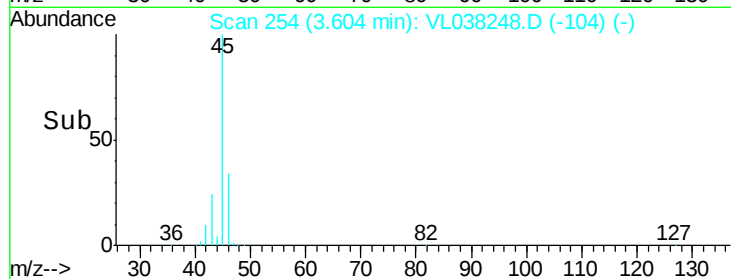
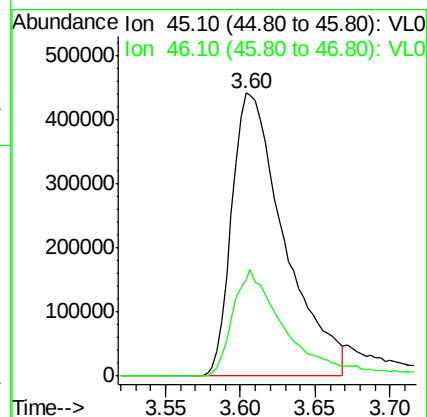
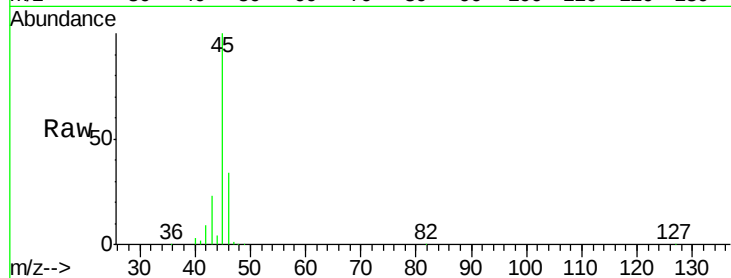
Acq: 30 Dec 2021 1:11

Tgt Ion: 45 Resp: 1083415

Ion Ratio Lower Upper

45 100

46 40.4 0.0 0.0#



#15

Acetone

Concen: 9.157 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL038248.D

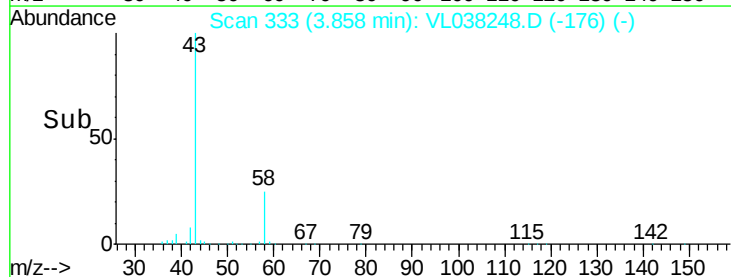
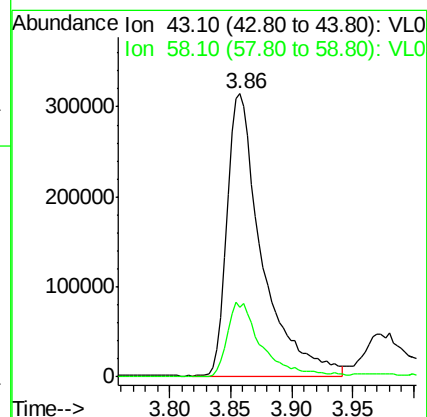
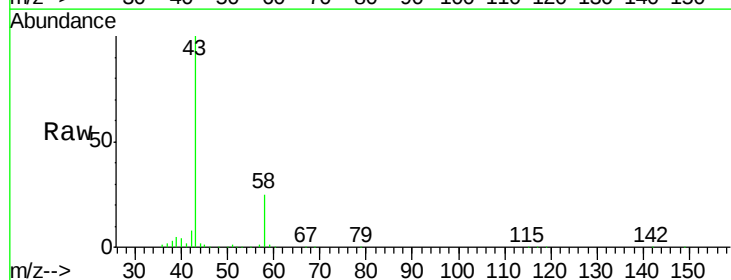
Acq: 30 Dec 2021 1:11

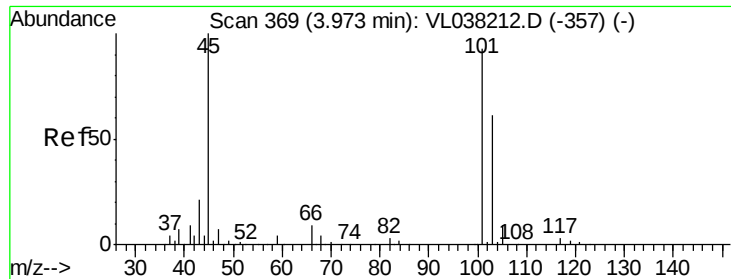
Tgt Ion: 43 Resp: 629974

Ion Ratio Lower Upper

43 100

58 26.6 23.3 34.9





#19

Isopropyl Alcohol

Concen: 10.488 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

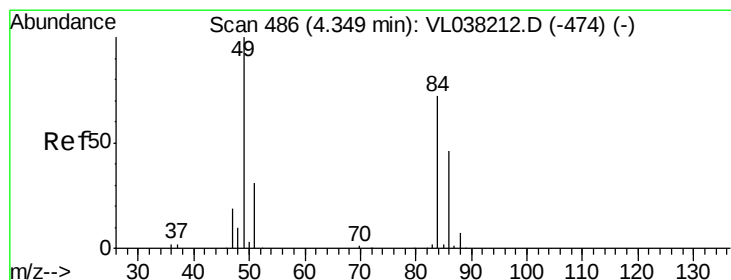
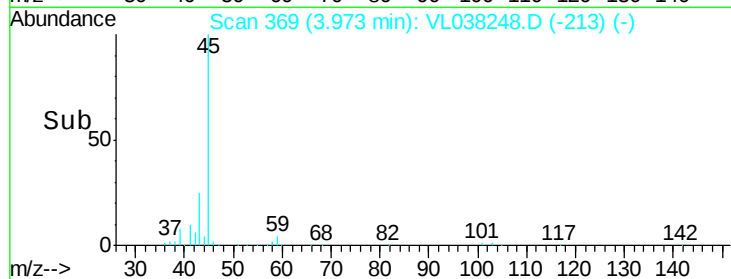
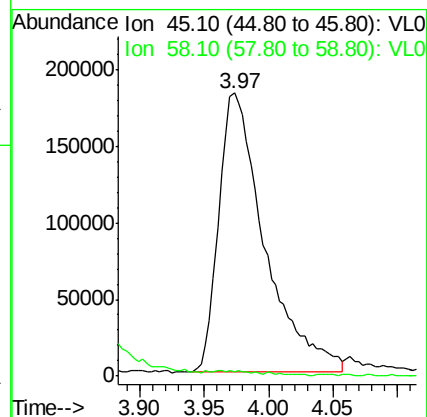
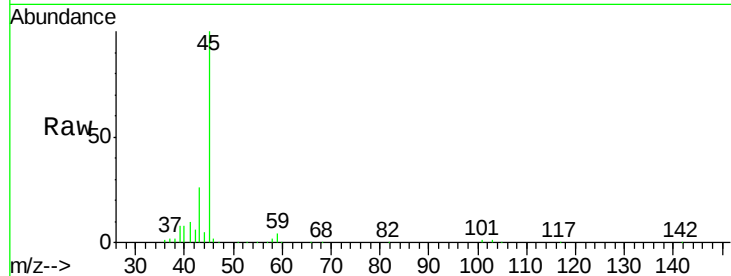
Acq: 30 Dec 2021 1:11

Tgt Ion: 45 Resp: 450029

Ion Ratio Lower Upper

45 100

58 2.3 32.4 48.6#



#20

Methylene Chloride

Concen: 1.364 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL038248.D

Acq: 30 Dec 2021 1:11

Tgt Ion: 84 Resp: 52983

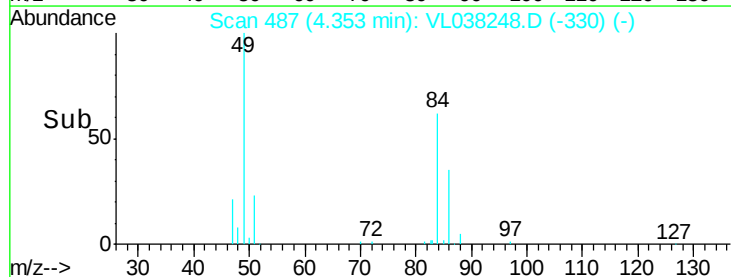
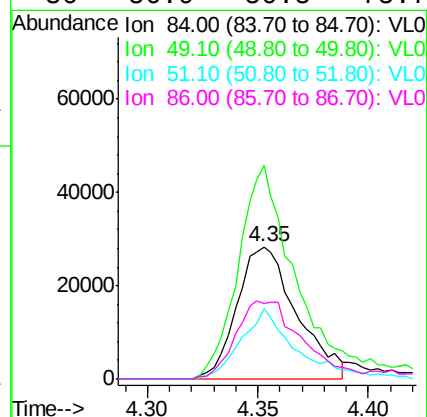
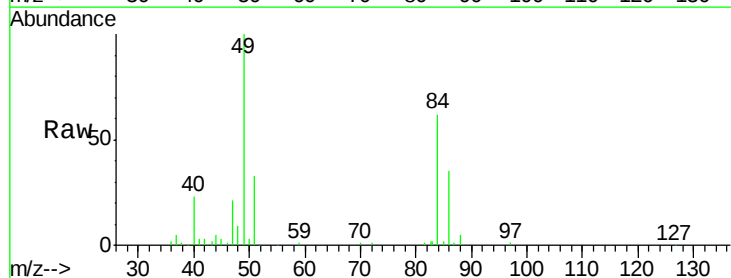
Ion Ratio Lower Upper

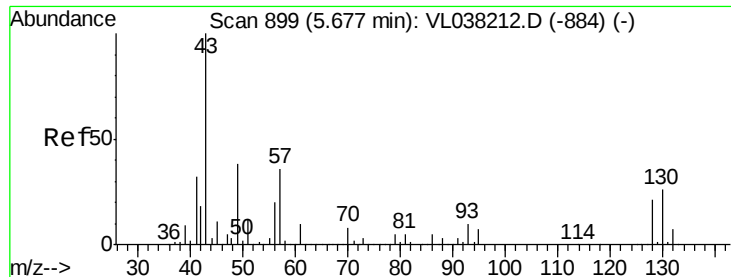
84 100

49 161.6 110.6 166.0

51 53.4 34.2 51.2#

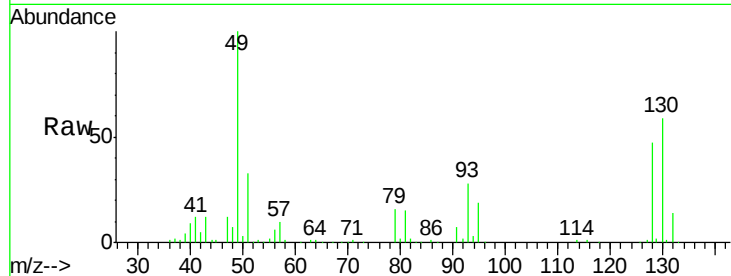
86 56.9 50.5 75.7





#25
Ethyl Acetate
Concen: 0.221 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Dec 2021 1:11

Tgt Ion:	43	Resp:	41234
Ion Ratio	Lower	Upper	
43	100		
45	7.3	7.9	11.9#
61	3.0	8.1	12.1#
70	3.4	5.5	8.3#



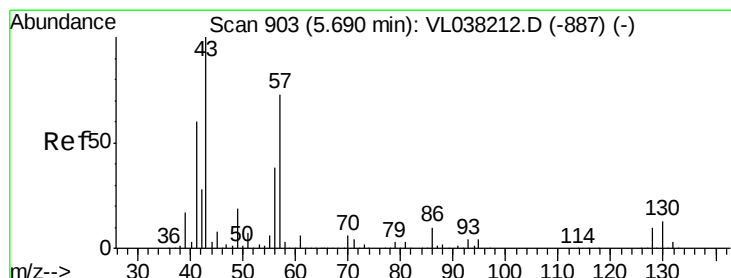
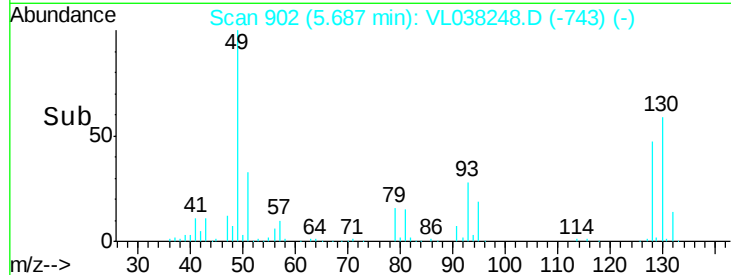
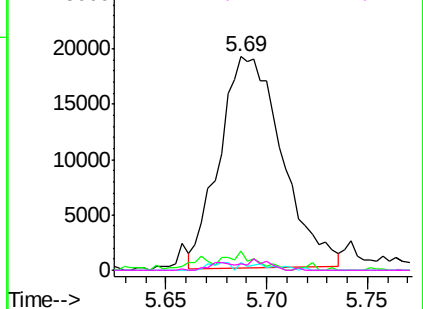
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.445 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.00 min
Lab File: VL038248.D
Acq: 30 Dec 2021 1:11

Tgt Ion:	57	Resp:	41614
Ion Ratio	Lower	Upper	
57	100		
41	103.7	69.0	103.6#
43	108.9	171.2	256.8#
56	59.4	41.5	62.3

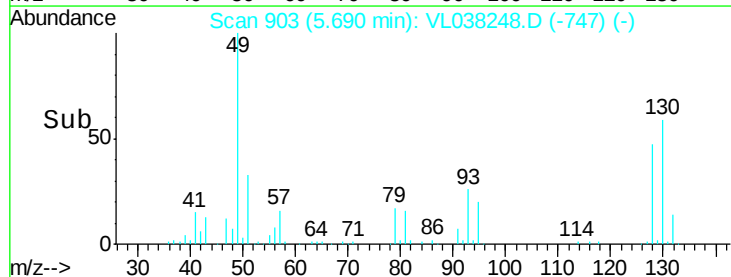
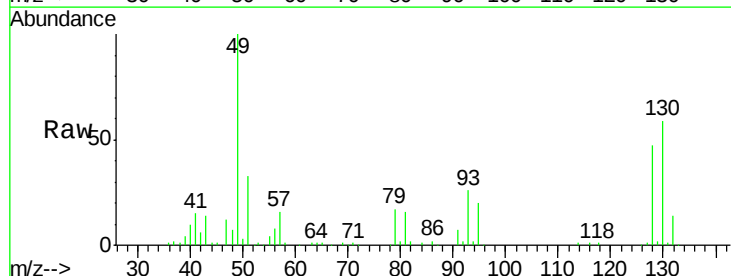
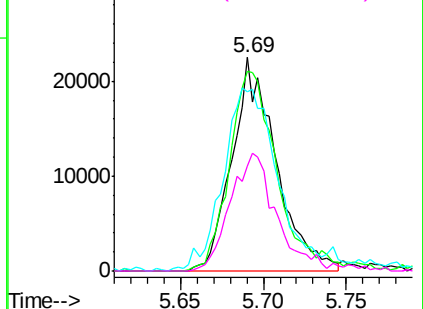
Abundance

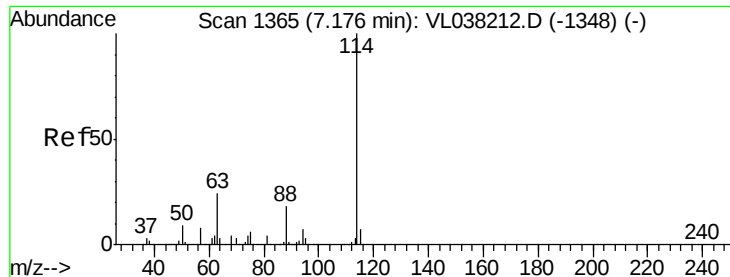
Ion 57.10 (56.80 to 57.80): VL0

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: 7.18

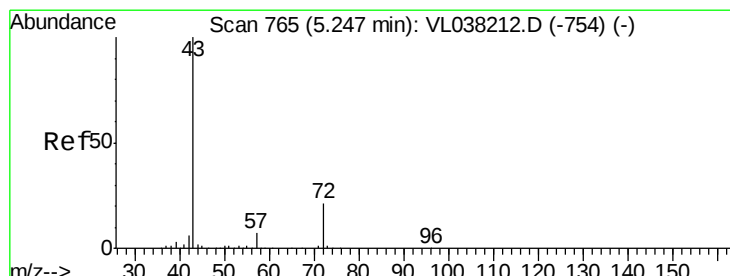
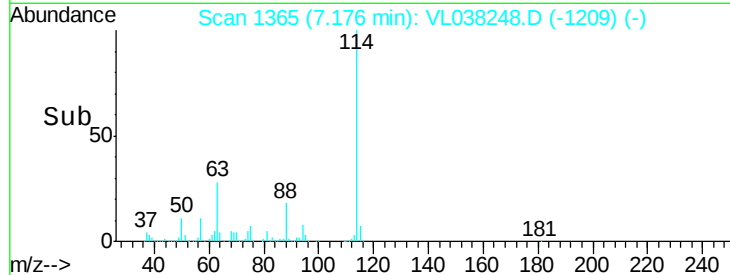
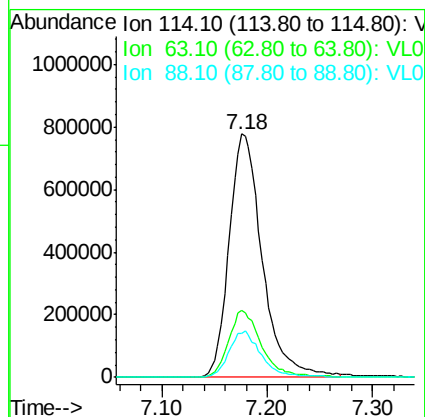
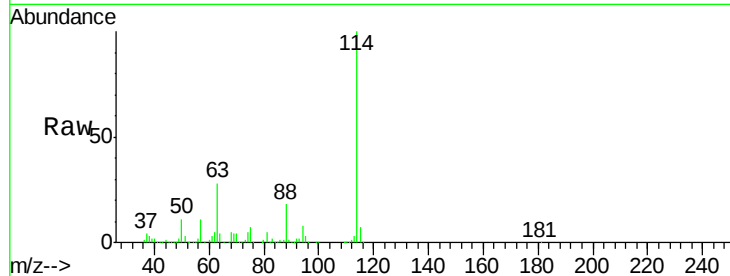
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 30 Dec 2021 1:11

Tgt Ion: 114 Resp: 1692027

Ion	Ratio	Lower	Upper
114	100		
63	27.7	19.7	29.5
88	18.9	14.3	21.5



#34

2-Butanone

Concen: 0.104 ppbv

RT: 5.26 min Scan# 769

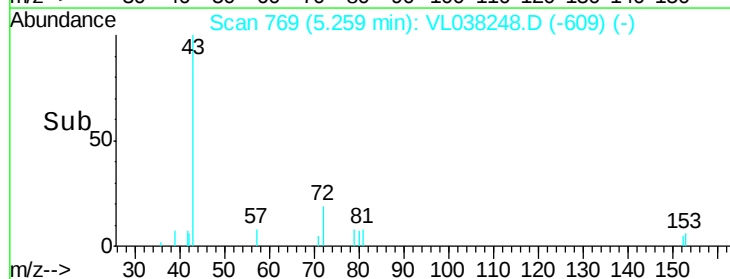
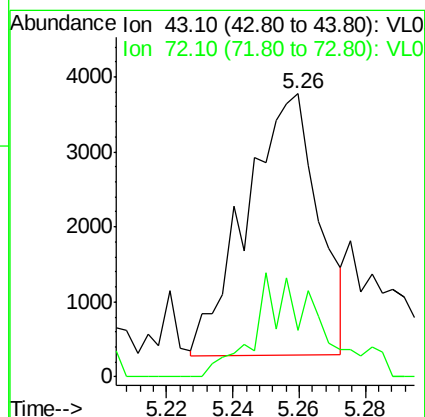
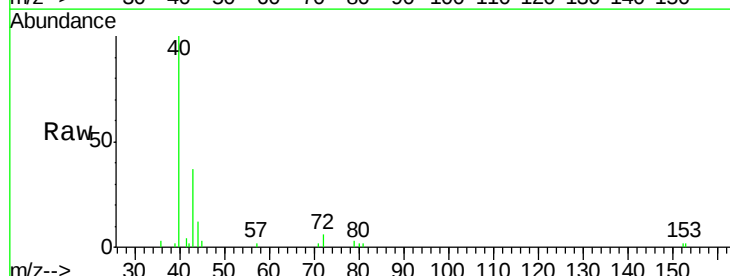
Delta R.T. 0.01 min

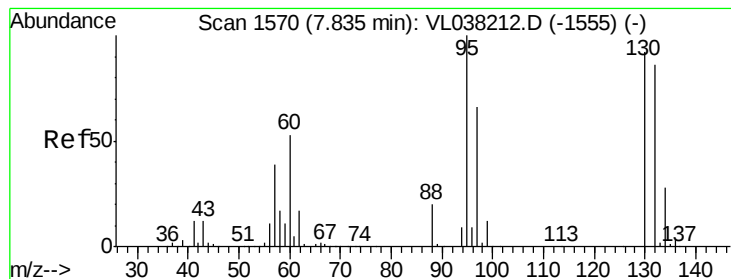
Lab File: VL038248.D

Acq: 30 Dec 2021 1:11

Tgt Ion: 43 Resp: 5290

Ion	Ratio	Lower	Upper
43	100		
72	35.3	18.3	27.5#





#38

Trichloroethene

Concen: 0.498 ppbv

RT: 7.84 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 30 Dec 2021 1:11

Tgt Ion: 130 Resp: 29905

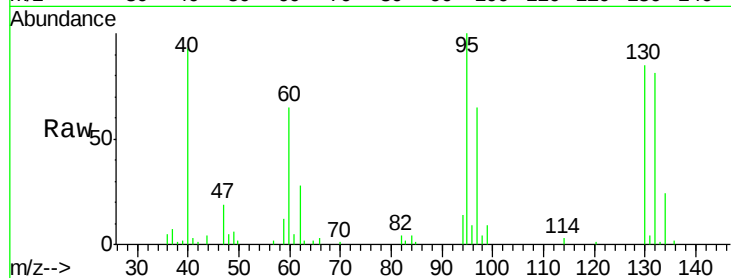
Ion Ratio Lower Upper

130 100

95 117.3 87.0 130.4

132 94.4 75.1 112.7

97 77.0 57.0 85.4

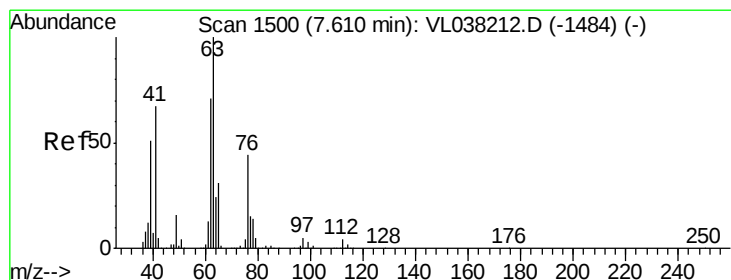
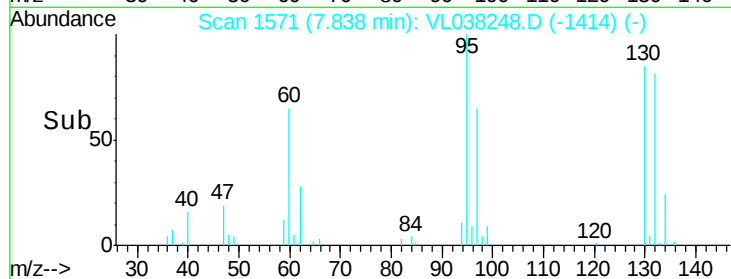
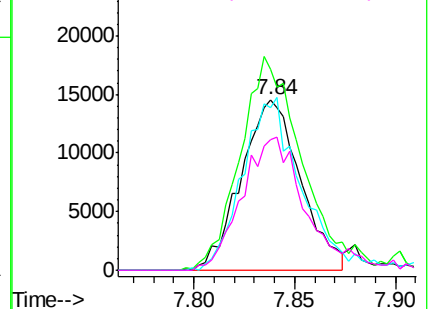


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.508 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.43 min

Lab File: VL038248.D

Acq: 30 Dec 2021 1:11

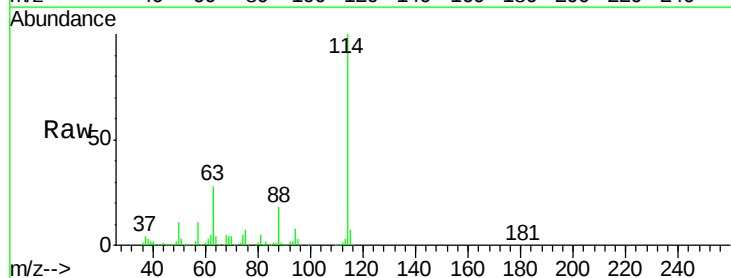
Tgt Ion: 63 Resp: 456083

Ion Ratio Lower Upper

63 100

41 0.0 53.4 80.2#

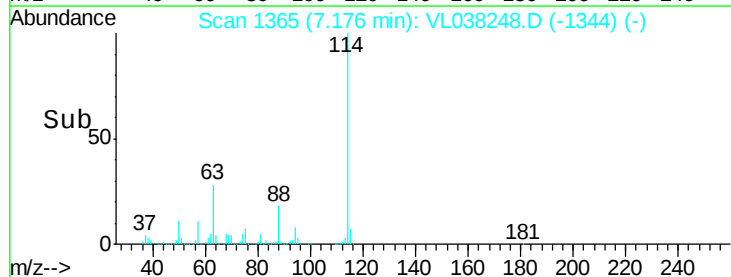
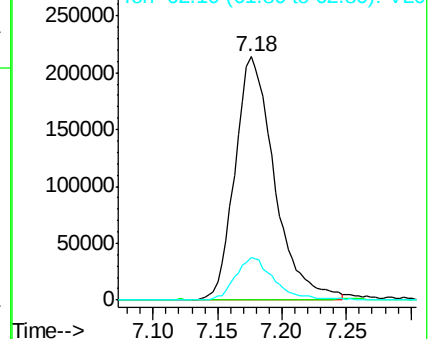
62 17.6 56.5 84.7#

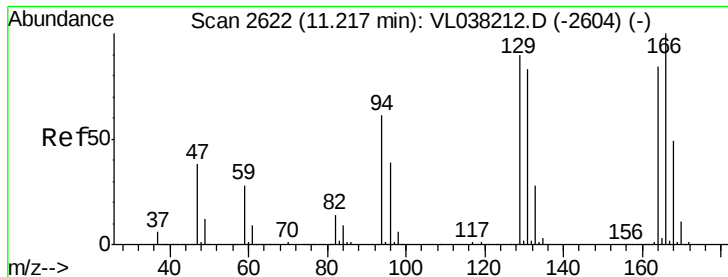


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.159 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Dec 2021 1:11

Tgt Ion: 164 Resp: 9236

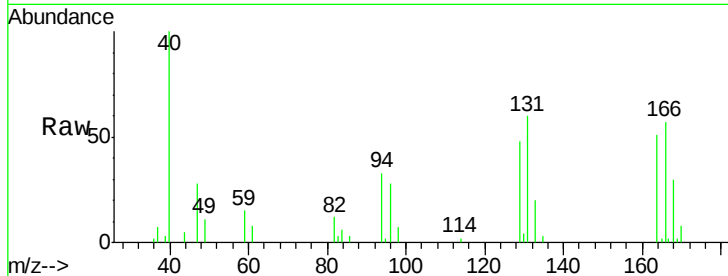
Ion Ratio Lower Upper

164 100

166 112.5 95.6 143.4

129 82.0 85.8 128.8#

131 103.5 79.3 118.9

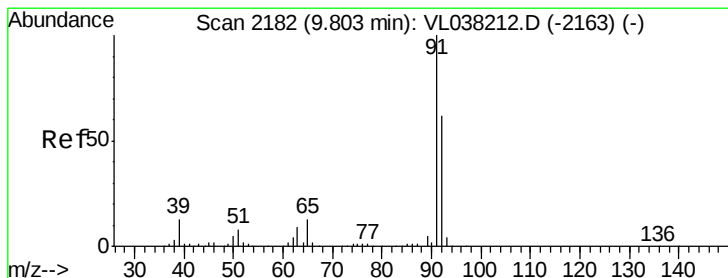
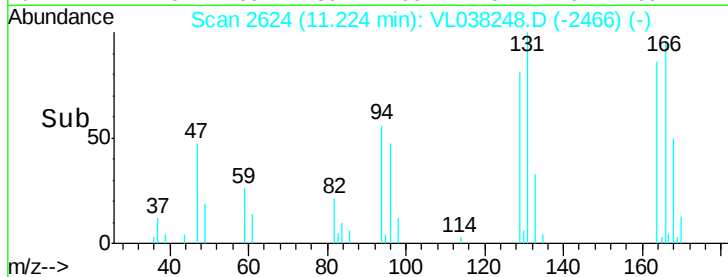
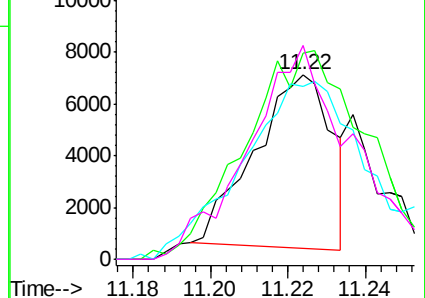


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.038 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL038248.D

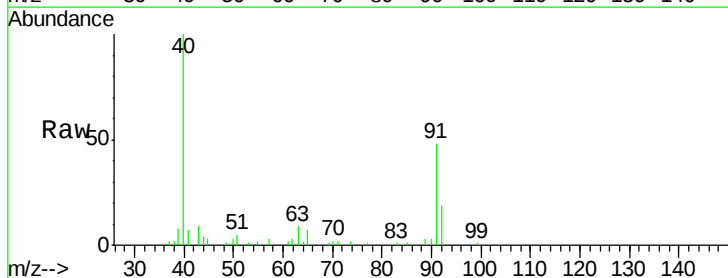
Acq: 30 Dec 2021 1:11

Tgt Ion: 91 Resp: 6844

Ion Ratio Lower Upper

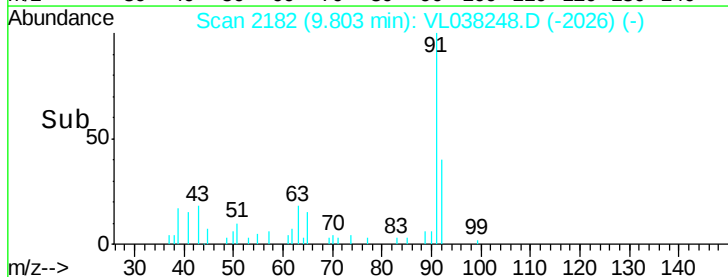
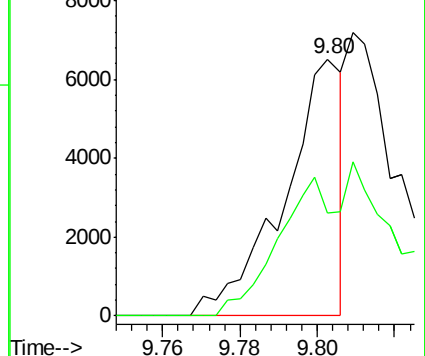
91 100

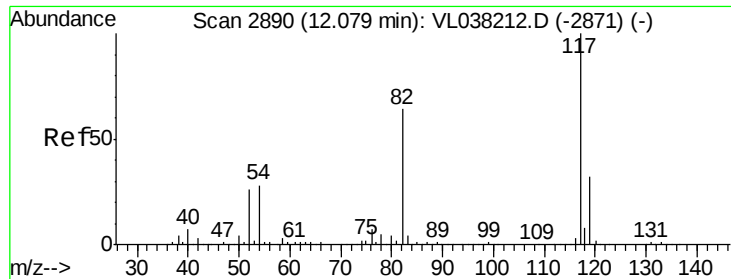
92 0.0 48.9 73.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

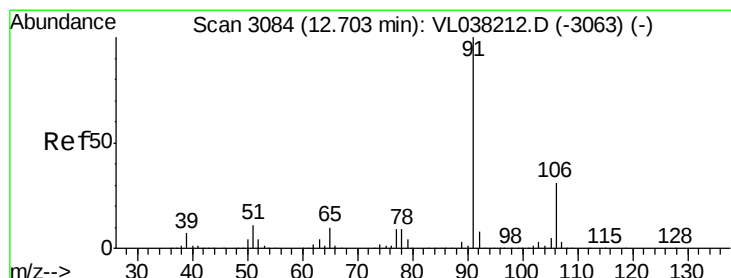
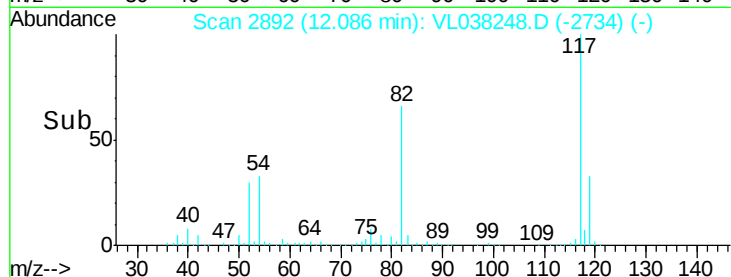
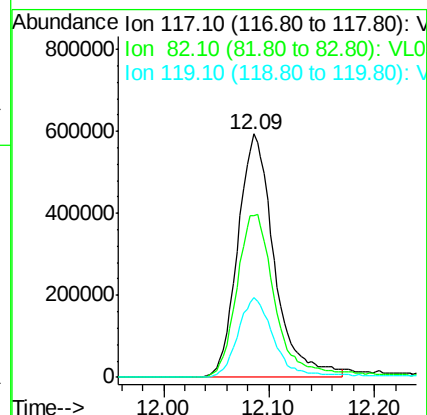
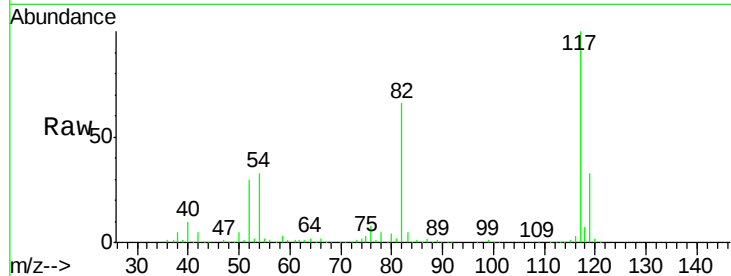
Ion 92.10 (91.80 to 92.80): VL0





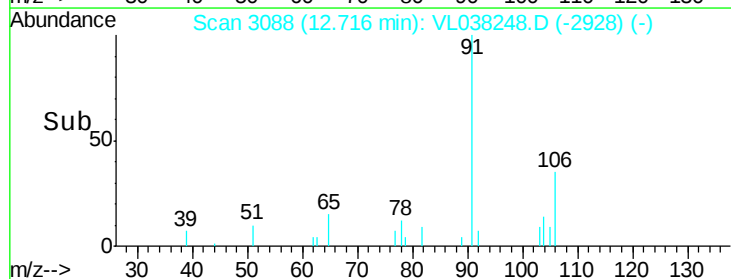
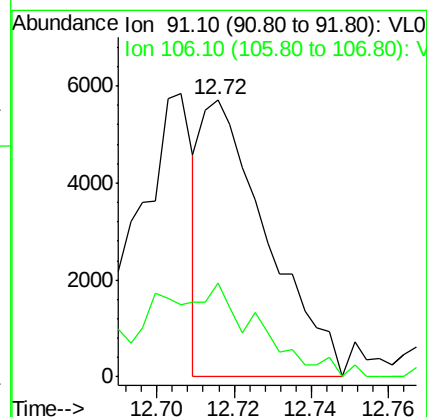
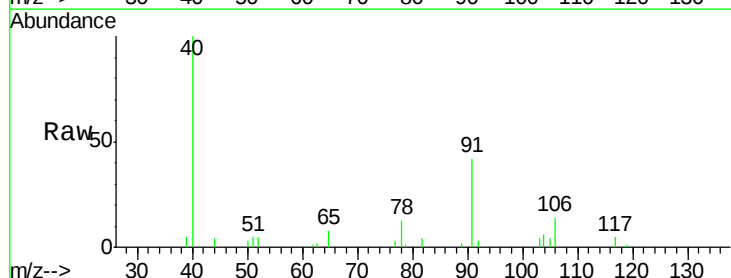
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Dec 2021 1:11

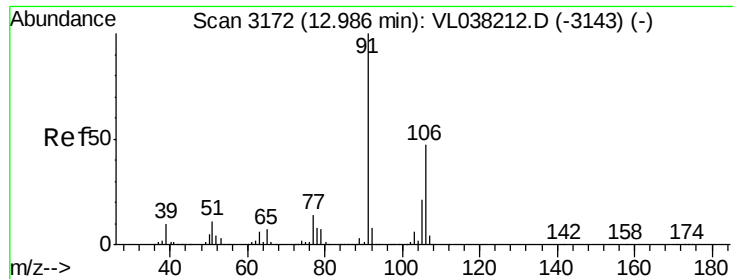
Tgt Ion: 117 Resp: 1428015
Ion Ratio Lower Upper
117 100
82 72.8 53.3 79.9
119 33.8 25.5 38.3



#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 12.72 min Scan# 3088
Delta R.T.: 0.01 min
Lab File: VL038248.D
Acq: 30 Dec 2021 1:11

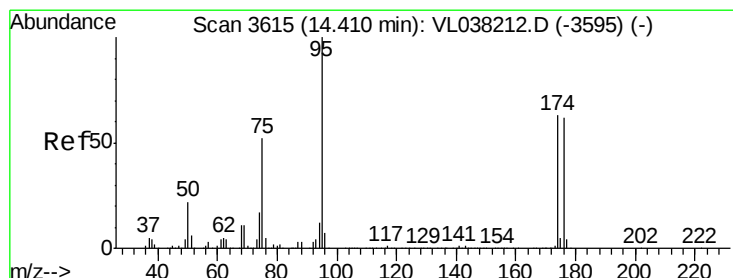
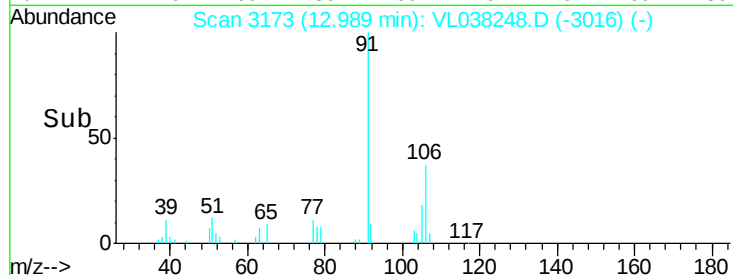
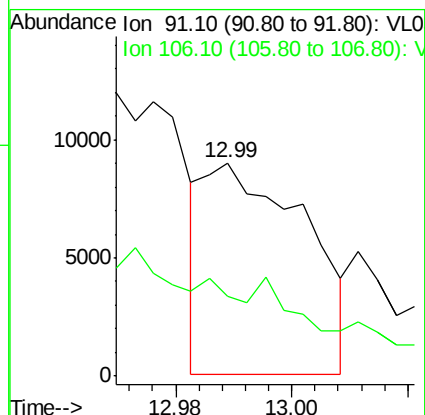
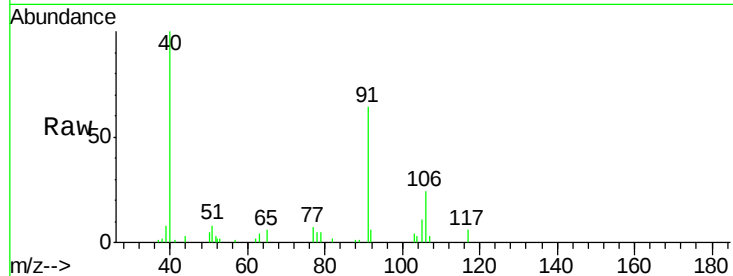
Tgt Ion: 91 Resp: 6699
Ion Ratio Lower Upper
91 100
106 33.9 25.0 37.4





#59
m/p-Xylene
Concen: 0.057 ppbv
RT: 12.99
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 30 Dec 2021 1:11

Tgt Ion: 91 Resp: 10841
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.310 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.01 min
Lab File: VL038248.D
Acq: 30 Dec 2021 1:11

Tgt Ion: 95 Resp: 1134562
Ion Ratio Lower Upper
95 100
174 61.3 54.6 81.8
175 4.6 4.1 6.1

