

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039212.D
 Acq On : 7 Jun 2022 16:53
 Operator : SY/AP
 Sample : N3199-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 04:59:45 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	890171	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2144922	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1809150	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1465461	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.97	51	28300	0.250 ppbv	# 77
4) Chloromethane	3.15	50	7330	0.126 ppbv	96
9) Propene	3.02	41	21328	0.432 ppbv	91
13) Ethanol	3.61	45	28361	10.530 ppbv	# 100
15) Acetone	3.86	43	290283	3.130 ppbv	99
19) Isopropyl Alcohol	3.98	45	14805	0.340 ppbv	# 93
20) Methylene Chloride	4.35	84	85111	2.178 ppbv	95
23) Vinyl Acetate	5.07	43	3932	0.051 ppbv	# 54
25) Ethyl Acetate	5.69	43	103623	0.496 ppbv	# 77
26) Hexane	5.69	57	148460	1.616 ppbv	# 38
34) 2-Butanone	5.26	43	6765	0.058 ppbv	# 33
36) Benzene	6.89	78	119628	0.687 ppbv	99
39) 1,2-Dichloropropane	7.17	63	569362	8.220 ppbv	# 24
41) Tetrahydrofuran	5.69	42	57168	0.816 ppbv	# 51
52) Tetrachloroethene	11.22	164	22405	0.330 ppbv	93
53) Toluene	9.80	91	13058	0.065 ppbv	# 21

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

Abundance

TIC: VL039212.D

Time-->

1,1,1-Trichloroethane, T

1,1,2-Trichloroethane, T

Chloroform, T

Ethanol, T

Isopropyl Acetate, T

Methylene Chloride, T

Vinyl Acetate, T

2-Butanone, T

Bromochloromethane, T

Benzene, T

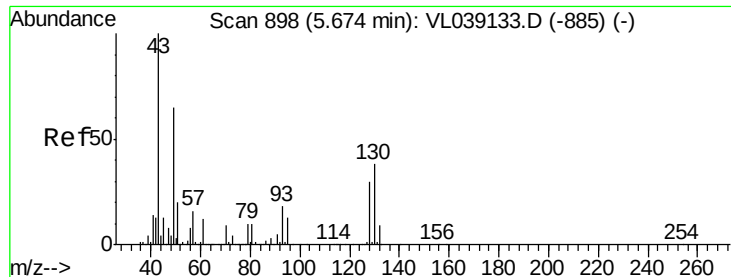
1,2-Dichloropropane, T

Toluene, T

Tetrachloroethene, T

Chlorobenzene-d5, I

1-Bromo-4-Fluorobenzene, S



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL039212.D

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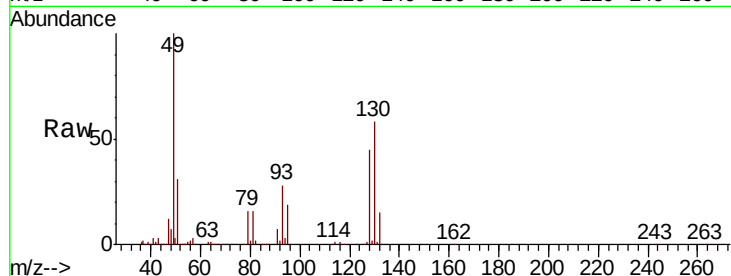
Tot Ion: 49 Resp: 890171

Ion Ratio Lower Upper

49 100

128 48.3 24.7 74.1

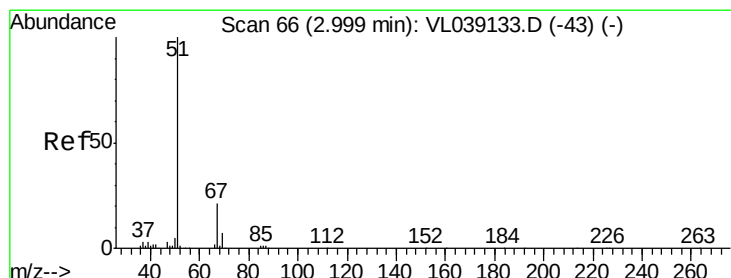
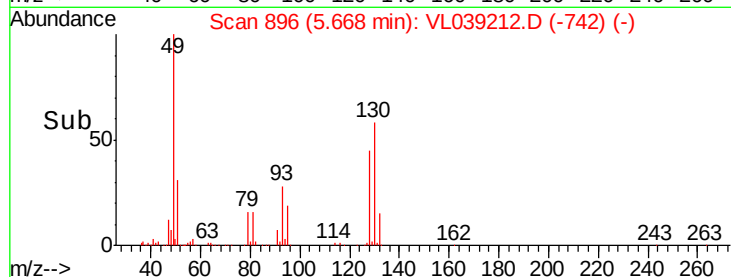
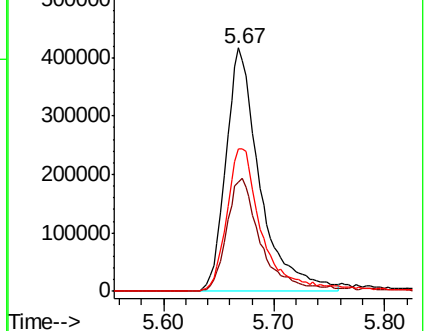
130 62.2 31.4 94.0



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: 0.250 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL039212.D

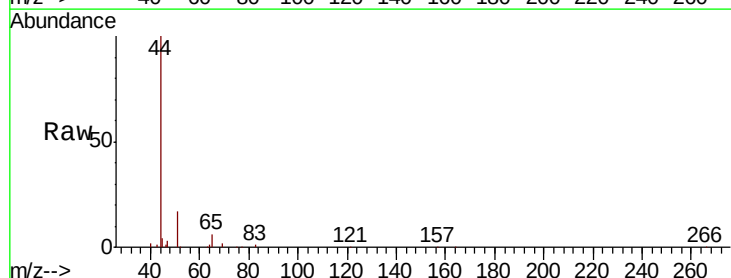
Acq: 7 Jun 2022 16:53

Tgt Ion: 51 Resp: 28300

Ion Ratio Lower Upper

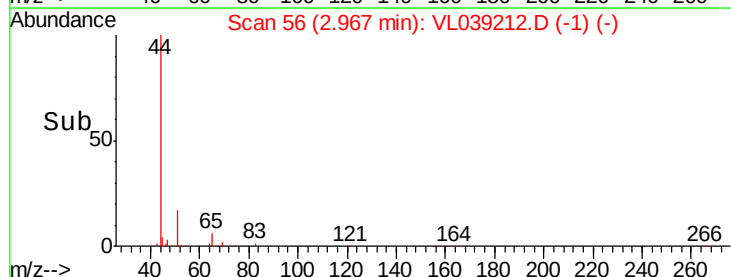
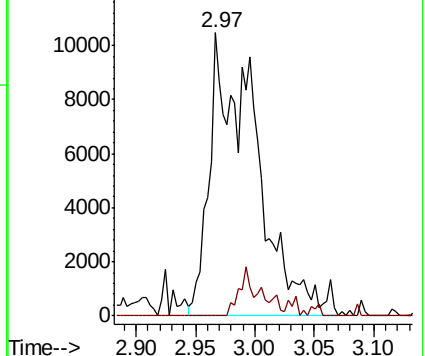
51 100

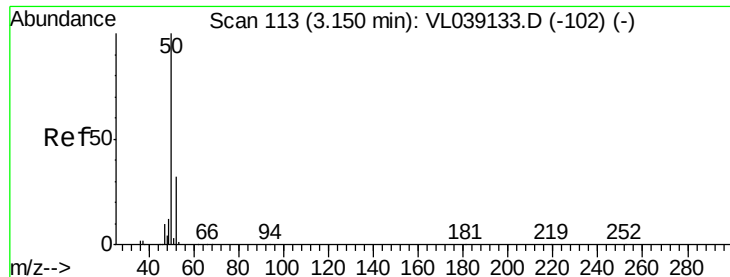
67 9.6 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.126 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039212.D

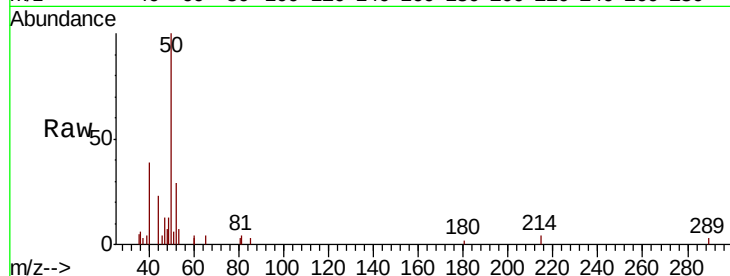
Acq: 7 Jun 2022 16:53

Tot Ion: 50 Resp: 7330

Ion Ratio Lower Upper

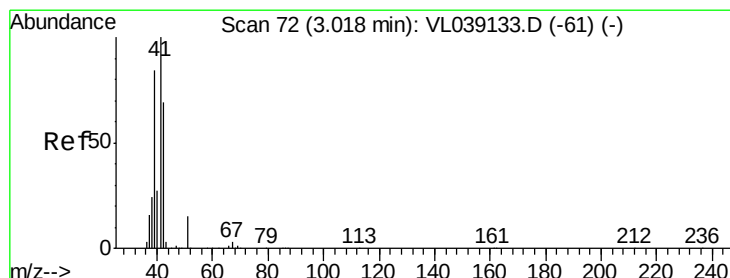
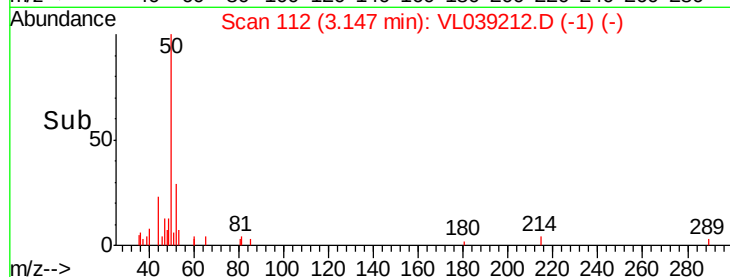
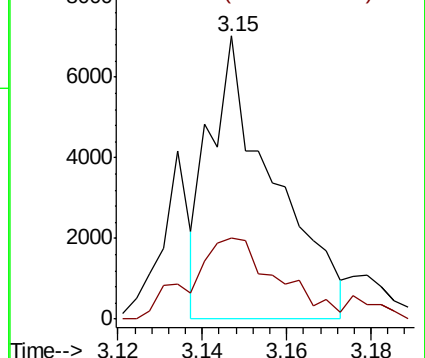
50 100

52 30.1 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.432 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039212.D

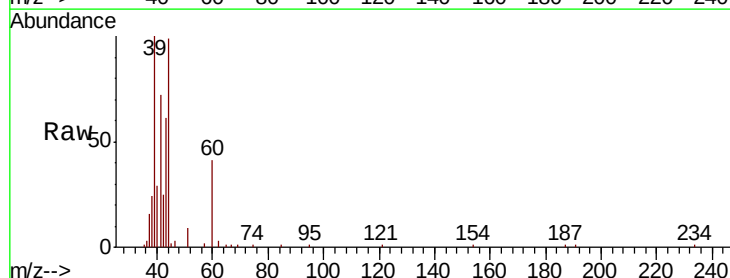
Acq: 7 Jun 2022 16:53

Tgt Ion: 41 Resp: 21328

Ion Ratio Lower Upper

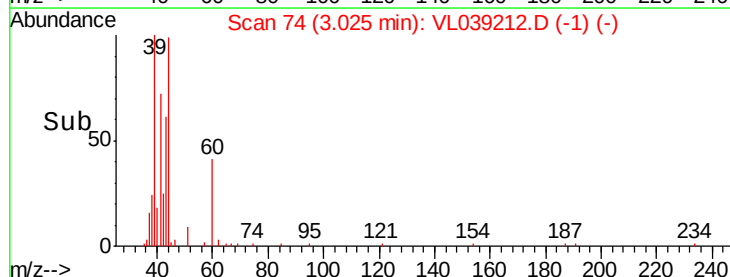
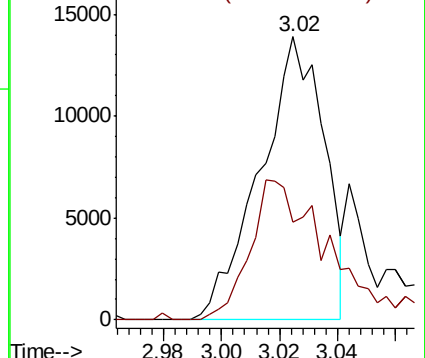
41 100

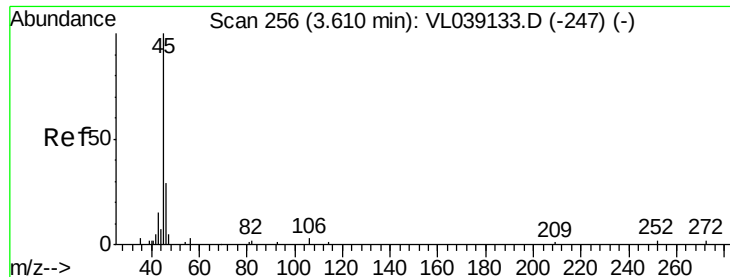
42 61.6 55.4 83.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 10.530 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL039212.D

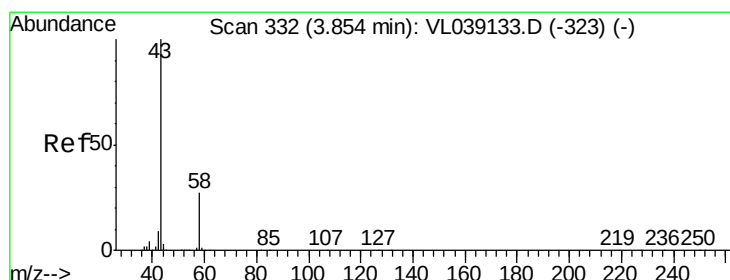
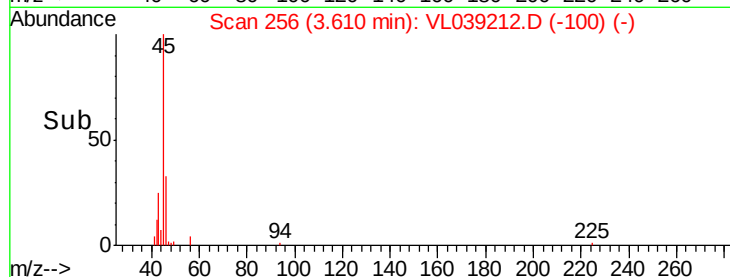
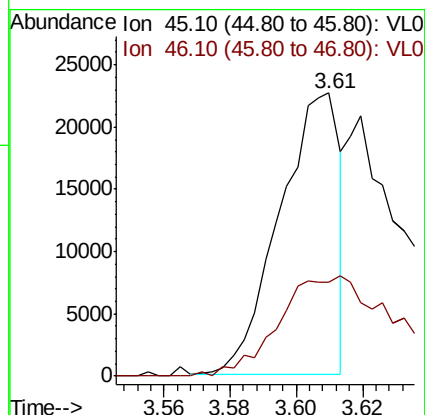
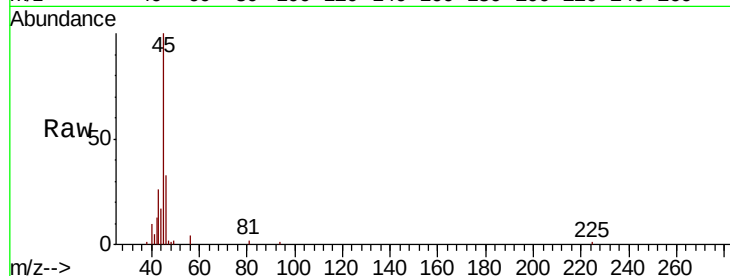
Acq: 7 Jun 2022 16:53

Tot Ion: 45 Resp: 28361

Ion Ratio Lower Upper

45 100

46 87.9 0.0 0.0#



#15

Acetone

Concen: 3.130 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL039212.D

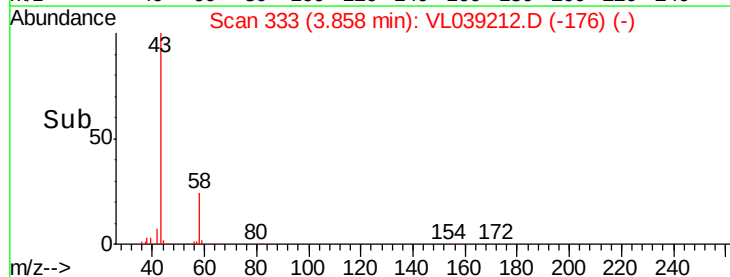
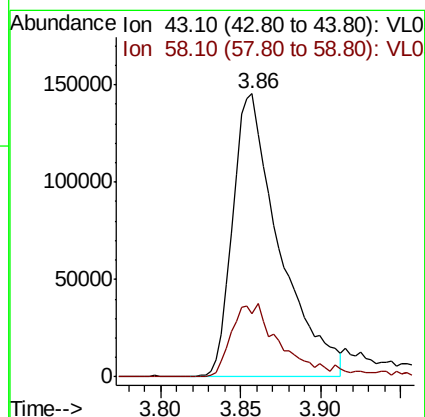
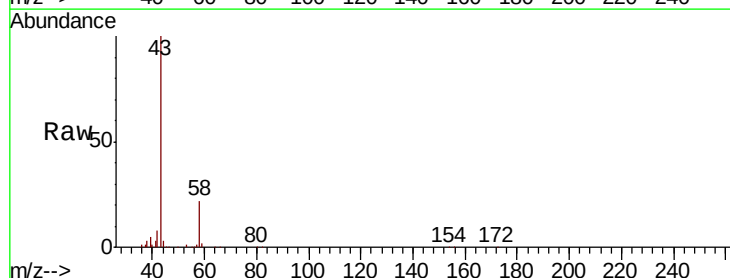
Acq: 7 Jun 2022 16:53

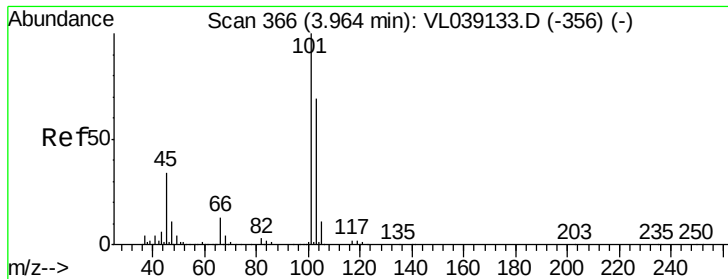
Tgt Ion: 43 Resp: 290283

Ion Ratio Lower Upper

43 100

58 27.7 22.5 33.7





#19

Isopropyl Alcohol

Concen: 0.340 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL039212.D

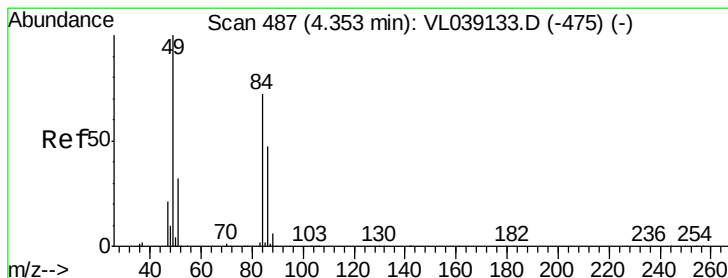
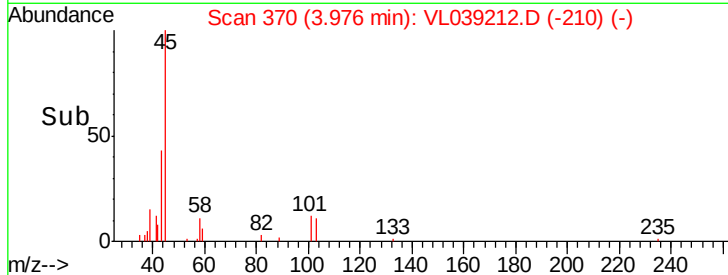
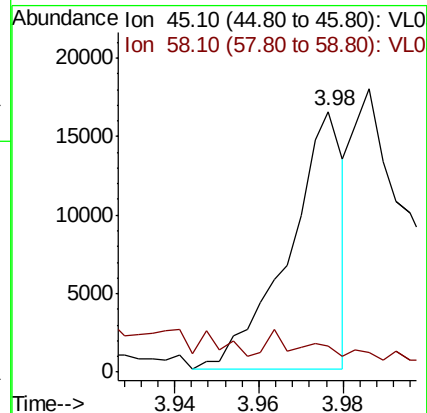
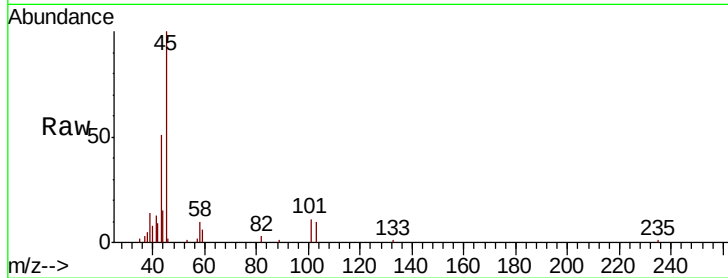
Acq: 7 Jun 2022 16:53

Tot Ion: 45 Resp: 14805

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 2.178 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tgt Ion: 84 Resp: 85111

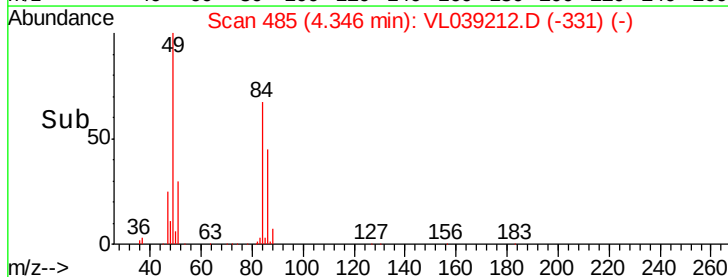
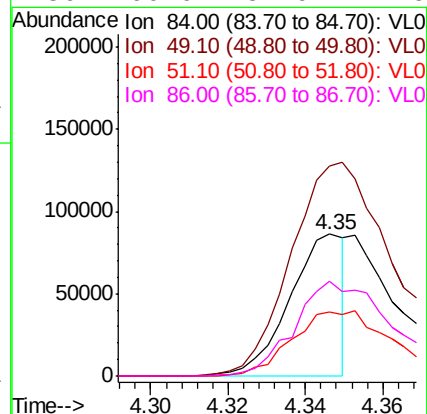
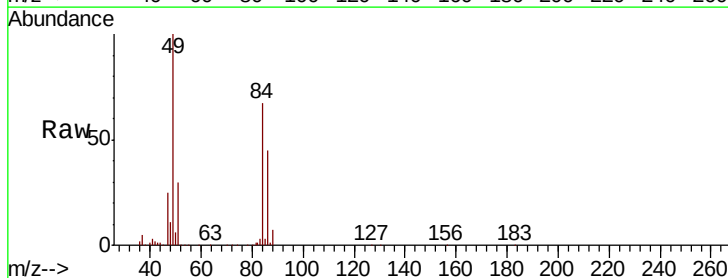
Ion Ratio Lower Upper

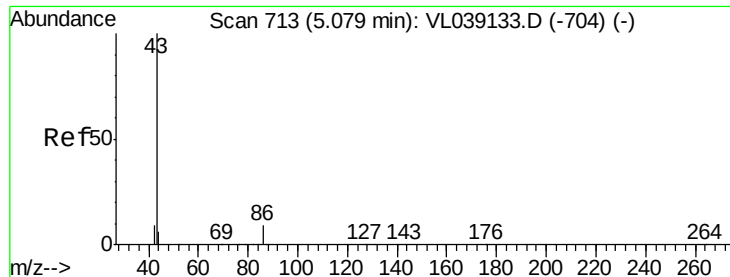
84 100

49 147.8 111.1 166.7

51 45.0 35.3 52.9

86 66.6 51.9 77.9





#23

Vinyl Acetate

Concen: 0.051 ppbv

RT: 5.07 min Scan# 711

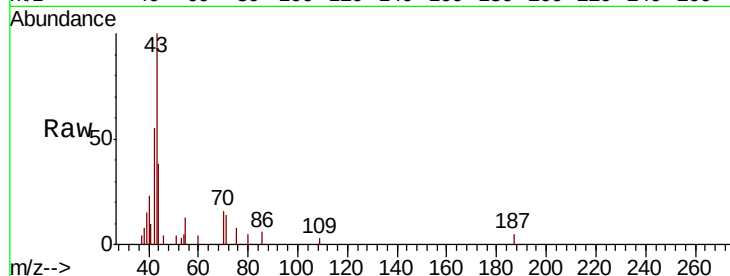
Delta R.T. -0.01 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tot Ion: 43 Resp: 3932

Ion	Ratio	Lower	Upper
43	100		
86	12.0	6.0	9.0#
42	40.4	8.2	12.4#
44	13.7	4.3	6.5#



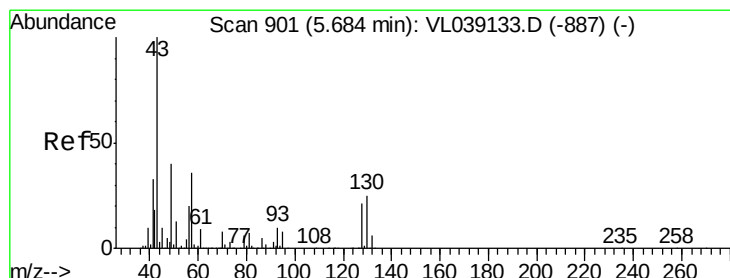
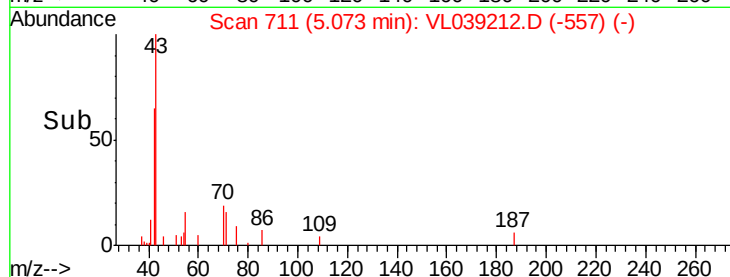
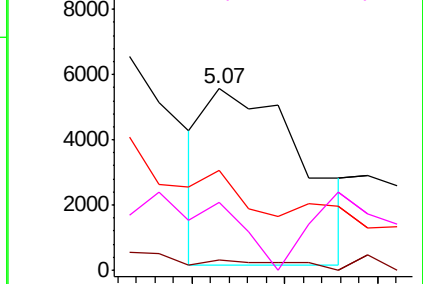
Abundance

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: 0.496 ppbv

RT: 5.69 min Scan# 903

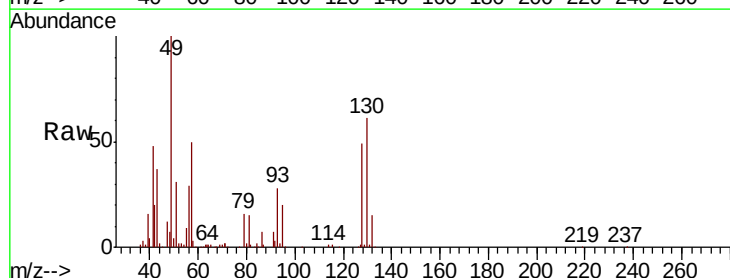
Delta R.T. 0.01 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tgt Ion: 43 Resp: 103623

Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.2	12.2#
61	0.4	8.4	12.6#
70	1.8	5.6	8.4#



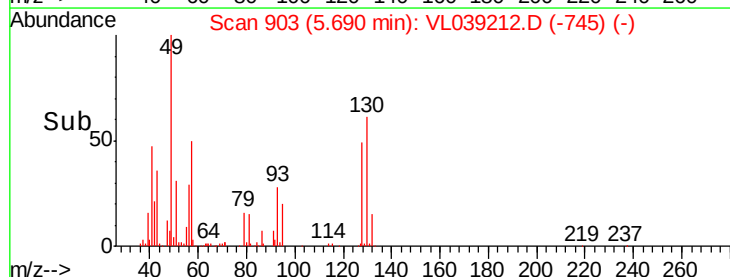
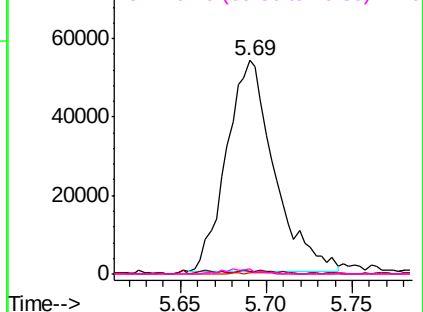
Abundance

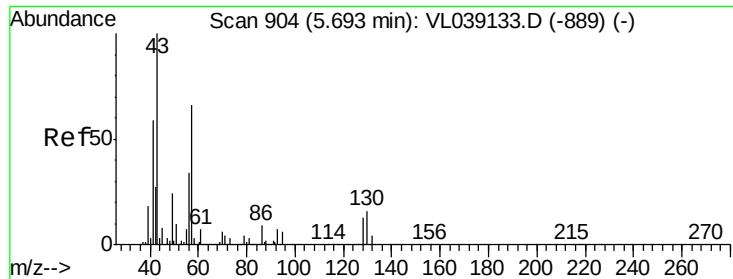
Ion 43.10 (42.80 to 43.80): VL0

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: 1.616 ppbv

RT: 5.69 min Scan# 903

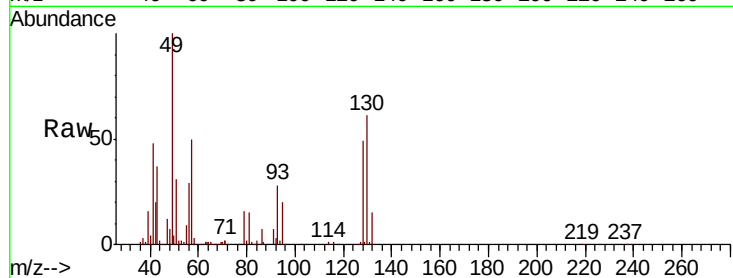
Delta R.T. -0.00 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tot Ion: 57 Resp: 148460

Ion	Ratio	Lower	Upper
57	100		
41	98.0	72.4	108.6
43	75.6	187.0	280.6#
56	56.7	41.8	62.6

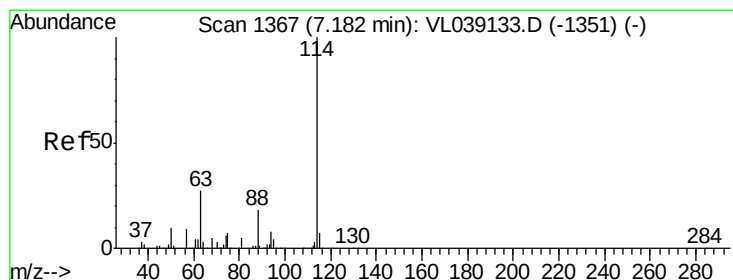
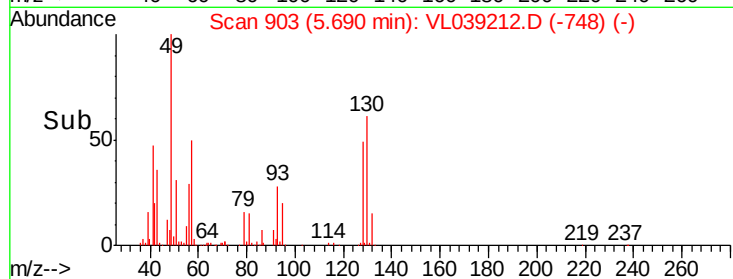
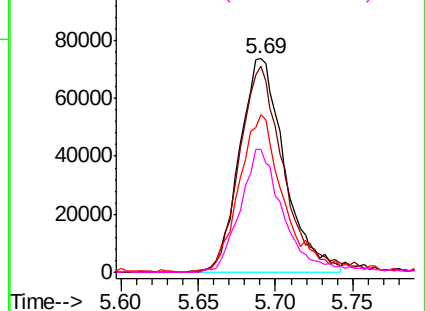


Abundance Ion 57.10 (56.80 to 57.80): VL0

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 min Scan# 1365

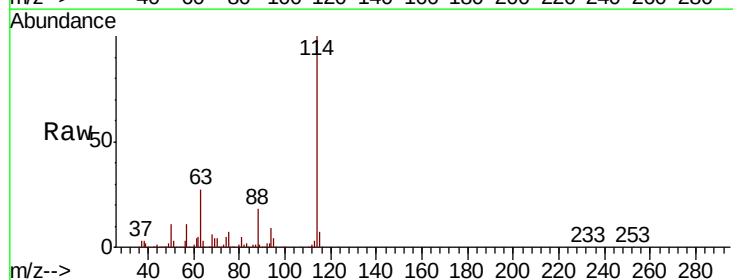
Delta R.T. -0.01 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tgt Ion:114 Resp: 2144922

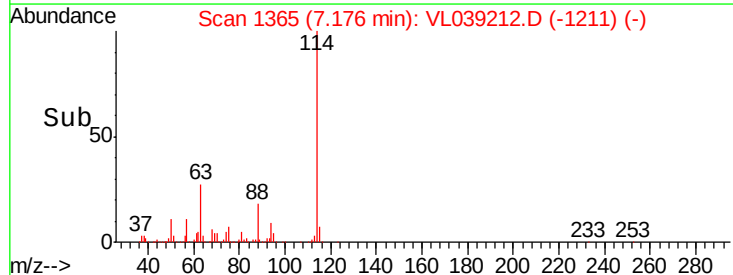
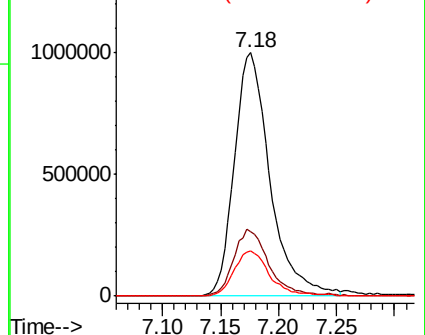
Ion	Ratio	Lower	Upper
114	100		
63	27.8	21.7	32.5
88	18.8	14.8	22.2

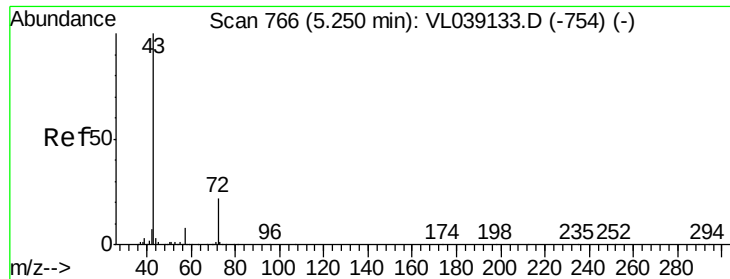


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

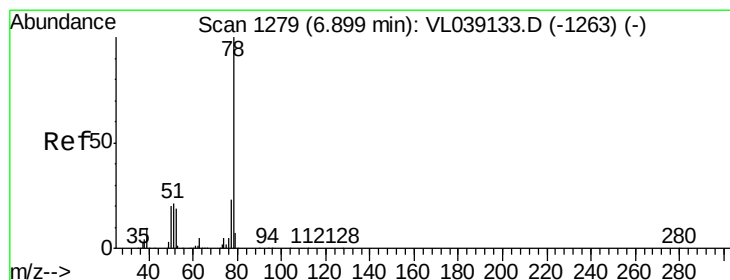
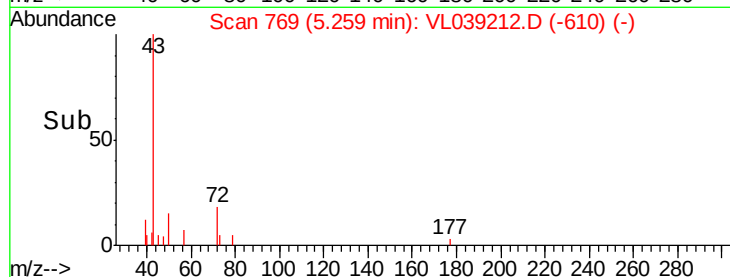
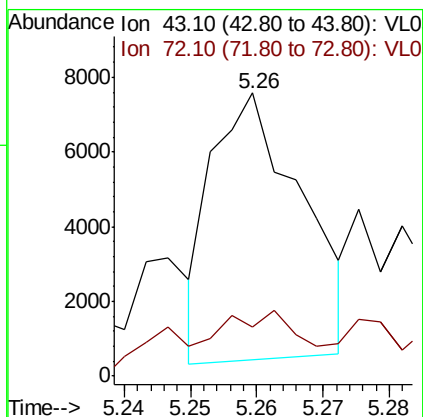
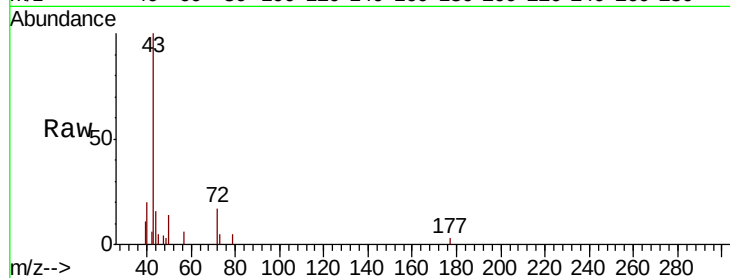
Ion 88.10 (87.80 to 88.80): VL0





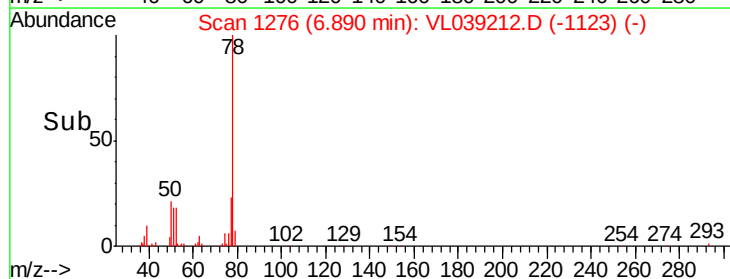
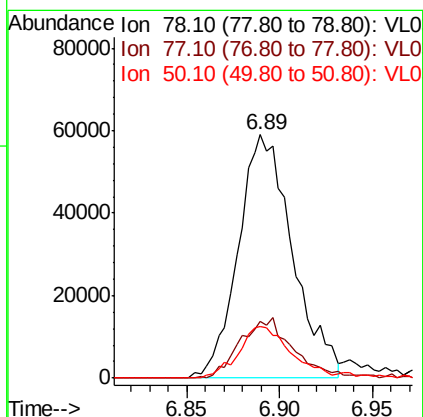
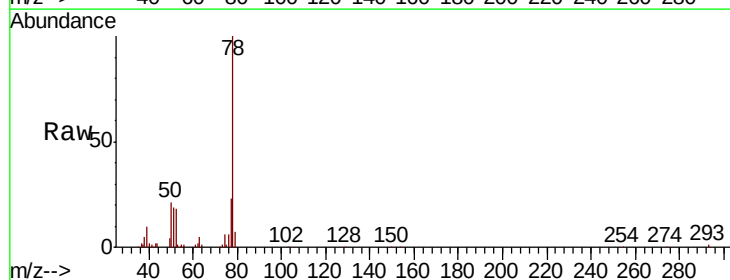
#34
 2-Butanone
 Concen: 0.058 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL039212.D
 Acq: 7 Jun 2022 16:53

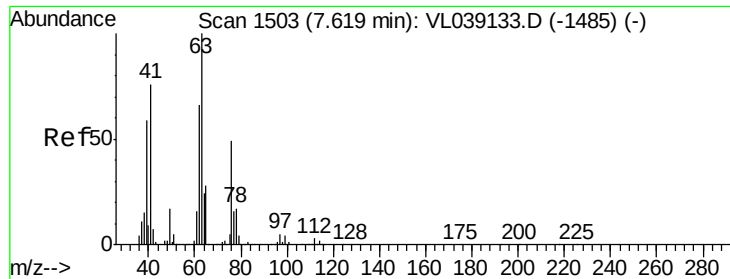
Tot Ion: 43 Resp: 6765
 Ion Ratio Lower Upper
 43 100
 72 55.1 18.2 27.2#



#36
 Benzene
 Concen: 0.687 ppbv
 RT: 6.89 min Scan# 1276
 Delta R.T. -0.01 min
 Lab File: VL039212.D
 Acq: 7 Jun 2022 16:53

Tgt Ion: 78 Resp: 119628
 Ion Ratio Lower Upper
 78 100
 77 23.3 18.6 27.8
 50 21.1 15.8 23.8





#39

1,2-Dichloropropane

Concen: 8.220 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

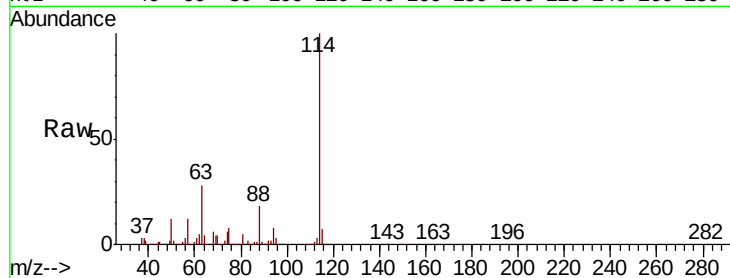
Tot Ion: 63 Resp: 569362

Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

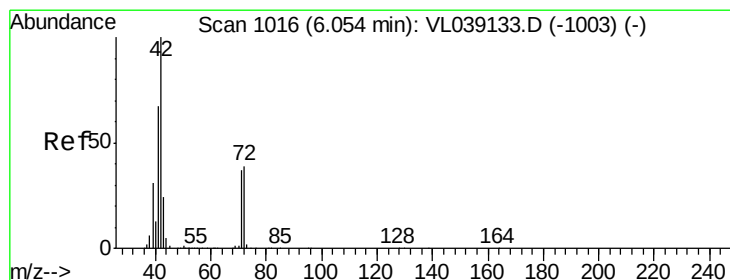
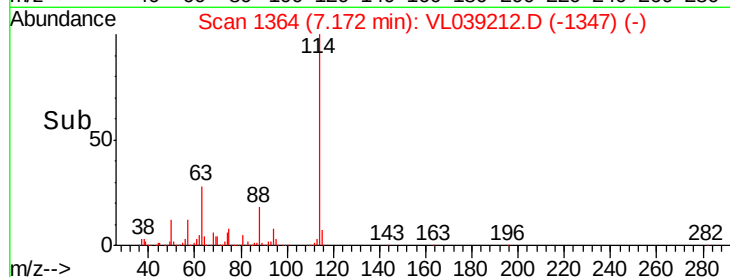
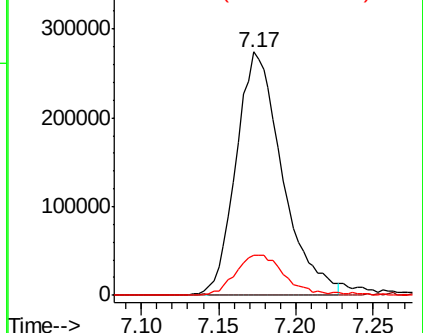
62 16.6 52.9 79.3#



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



#41

Tetrahydrofuran

Concen: 0.816 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.36 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

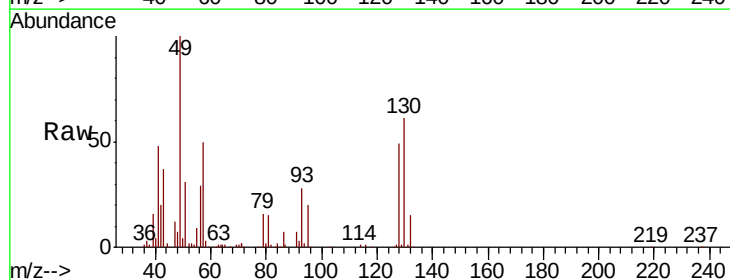
Tgt Ion: 42 Resp: 57168

Ion Ratio Lower Upper

42 100

72 0.9 32.0 48.0#

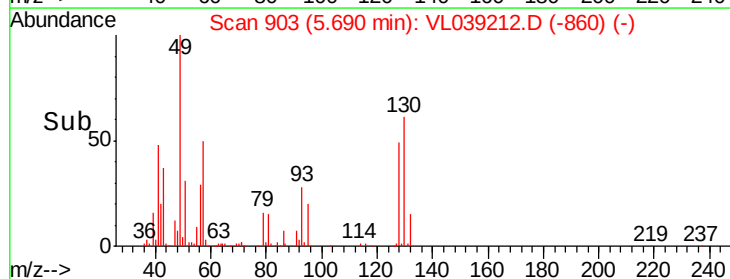
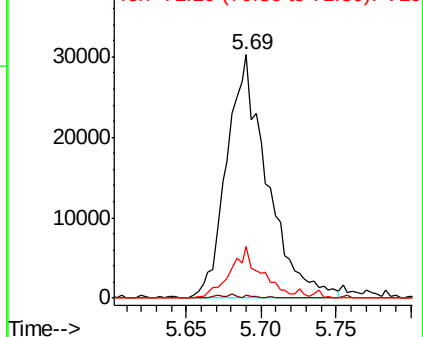
71 17.5 31.1 46.7#

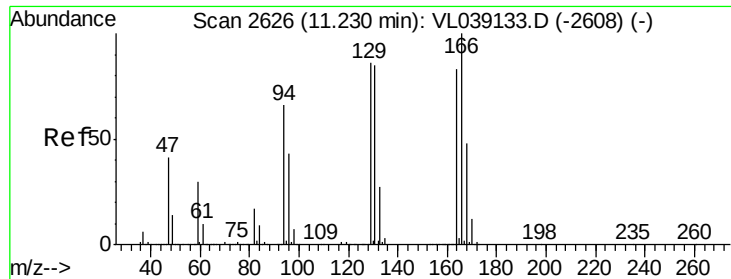


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 0.330 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL039212.D

Acq: 7 Jun 2022 16:53

Tot Ion:164 Resp: 22405

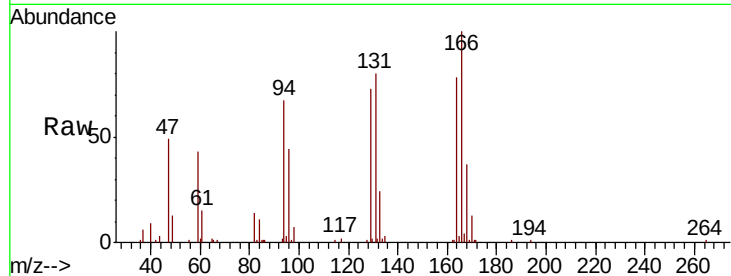
Ion Ratio Lower Upper

164 100

166 127.3 96.3 144.5

129 90.8 82.5 123.7

131 103.9 82.1 123.1

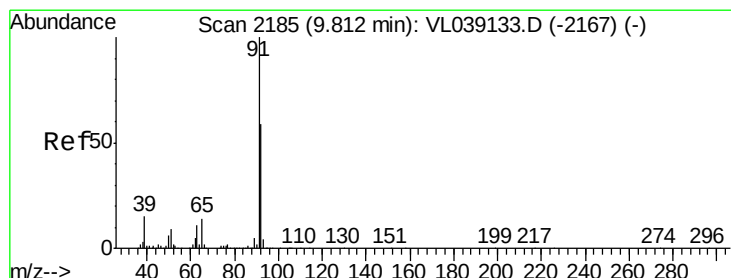
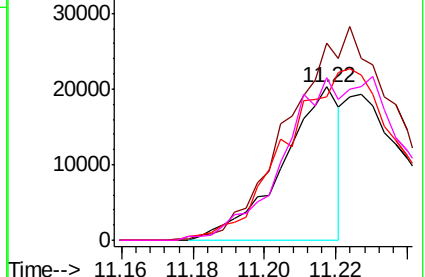
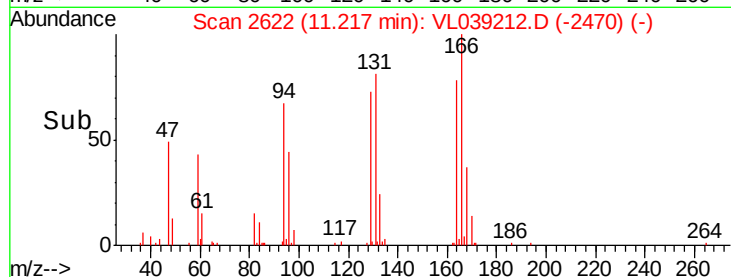


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.065 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL039212.D

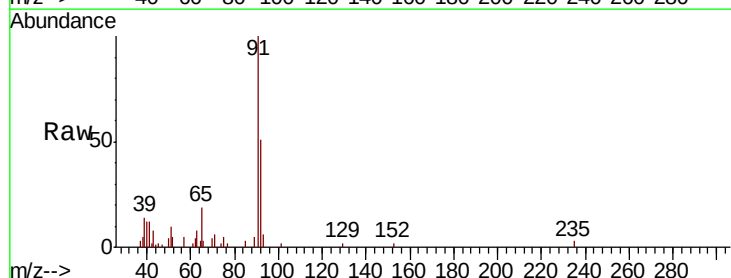
Acq: 7 Jun 2022 16:53

Tgt Ion: 91 Resp: 13058

Ion Ratio Lower Upper

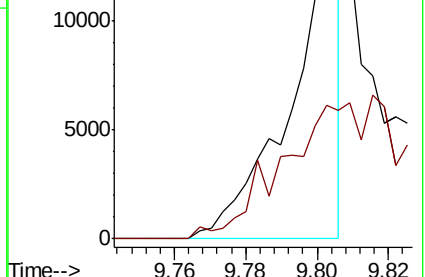
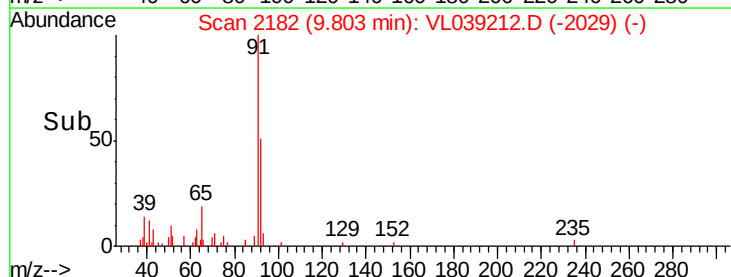
91 100

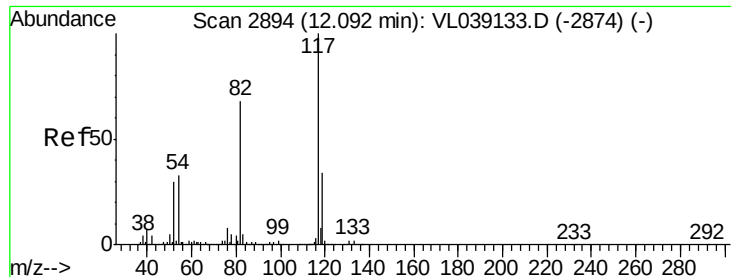
92 0.0 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

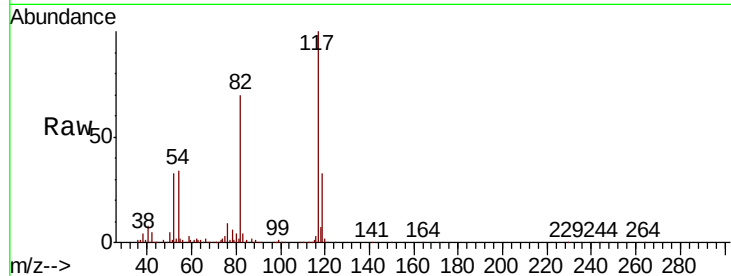
Ion 92.10 (91.80 to 92.80): VL0



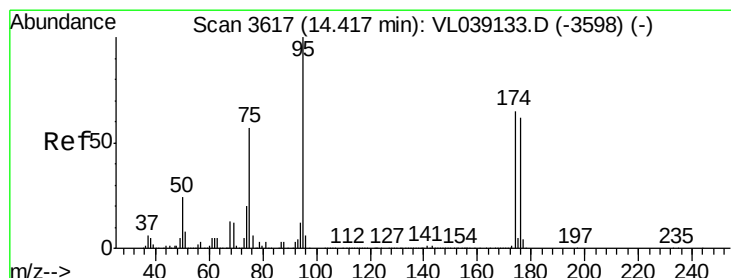
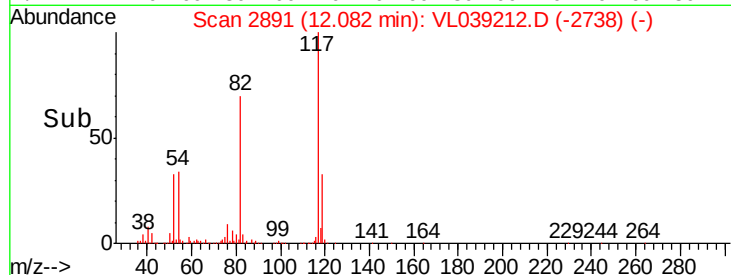
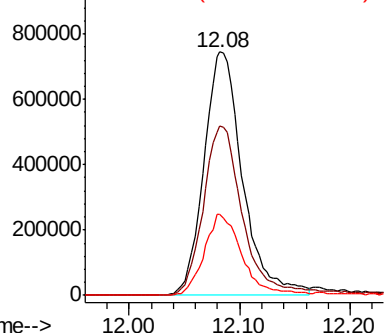


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL039212.D
Acq: 7 Jun 2022 16:53

Tot Ion:117 Resp: 1809150
Ion Ratio Lower Upper
117 100
82 73.1 55.1 82.7
119 33.9 24.7 37.1

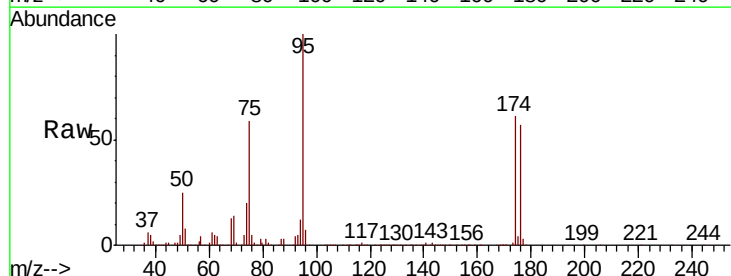


Abundance Ion 117.10 (116.80 to 117.80): V
1000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.798 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.00 min
Lab File: VL039212.D
Acq: 7 Jun 2022 16:53

Tgt Ion: 95 Resp: 1465461
Ion Ratio Lower Upper
95 100
174 66.8 53.8 80.8
175 4.6 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0
800000 Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

