

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039209.D
 Acq On : 7 Jun 2022 14:52
 Operator : SY/AP
 Sample : N3199-01DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 04:58:58 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	1021336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2722001	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2375140	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1837367	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

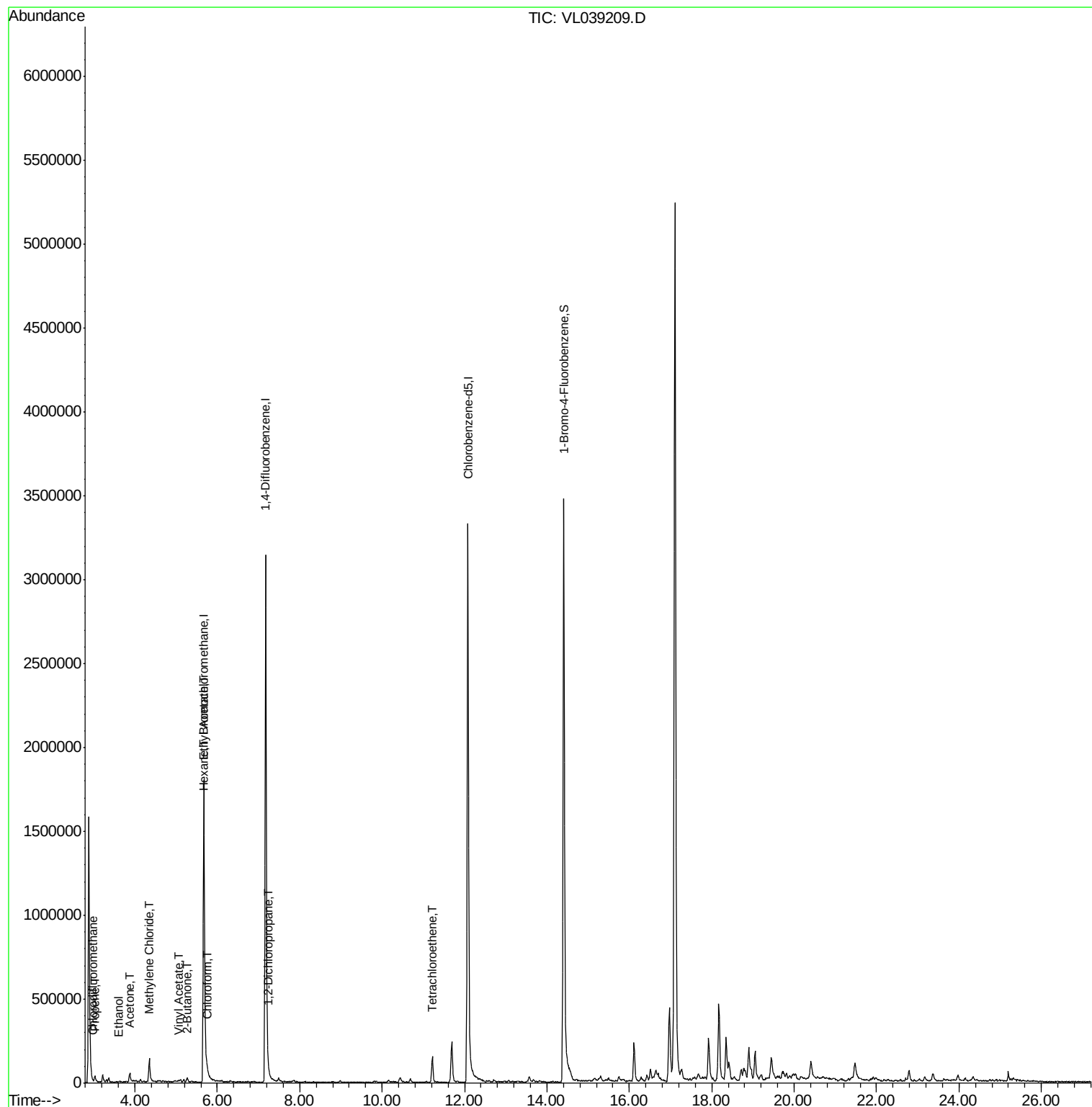
Target Compounds

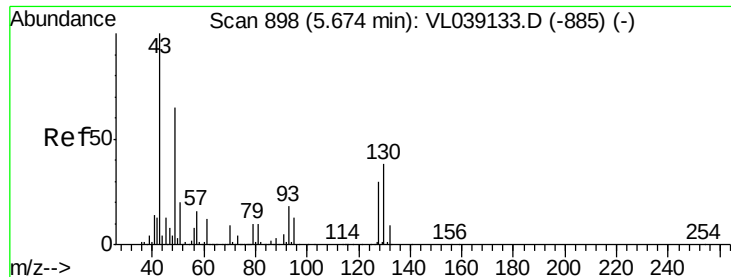
					Ovalue
3) Chlorodifluoromethane	2.99	51	6719	0.052 ppbv	# 78
9) Propene	3.02	41	10790	0.190 ppbv	98
13) Ethanol	3.61	45	2355	0.762 ppbv	# 100
15) Acetone	3.87	43	24809	0.233 ppbv	# 47
20) Methylene Chloride	4.35	84	57118	1.274 ppbv	93
23) Vinyl Acetate	5.07	43	3418	0.039 ppbv	# 87
25) Ethyl Acetate	5.68	43	22765	0.095 ppbv	# 80
26) Hexane	5.69	57	64323	0.610 ppbv	# 37
29) Chloroform	5.76	83	11569	0.065 ppbv	92
34) 2-Butanone	5.26	43	11012	0.074 ppbv	# 53
39) 1,2-Dichloropropane	7.23	63	9621	0.109 ppbv	# 20
52) Tetrachloroethene	11.21	164	22058	0.256 ppbv	87

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

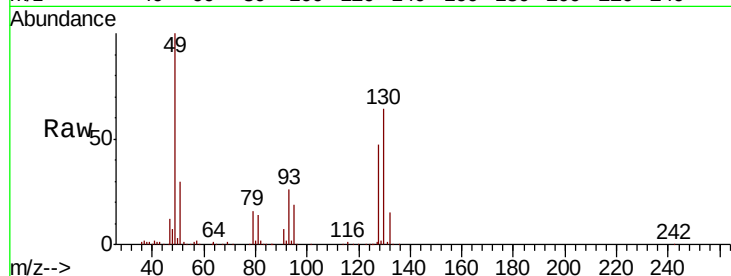
Tot Ion: 49 Resp: 1021336

Ion Ratio Lower Upper

49 100

128 51.9 24.7 74.1

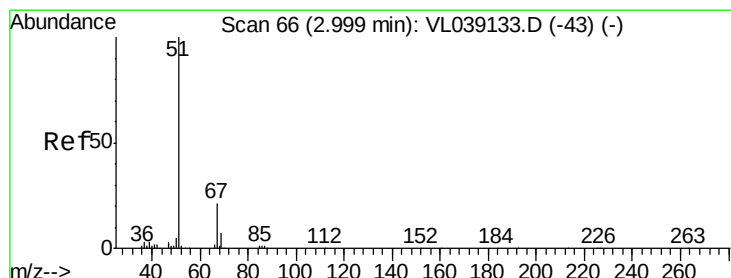
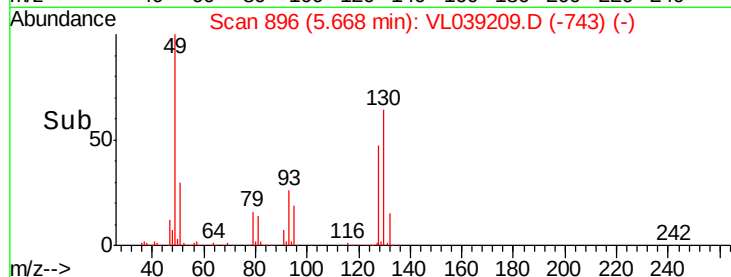
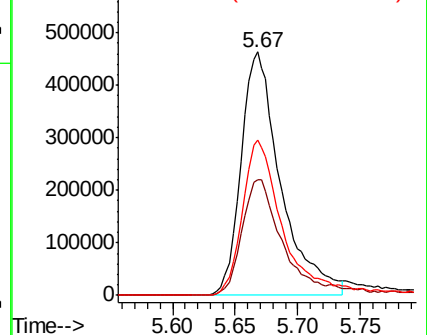
130 66.1 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.052 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL039209.D

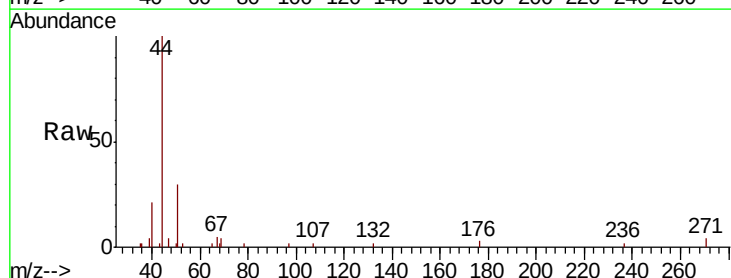
Acq: 7 Jun 2022 14:52

Tgt Ion: 51 Resp: 6719

Ion Ratio Lower Upper

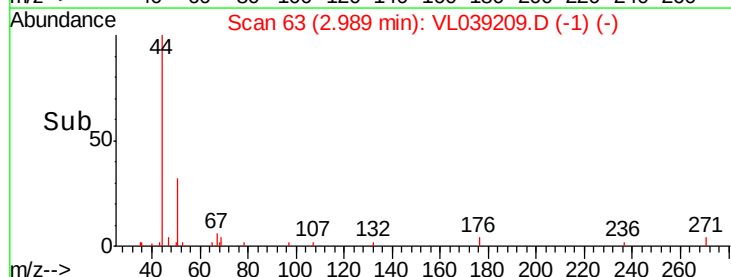
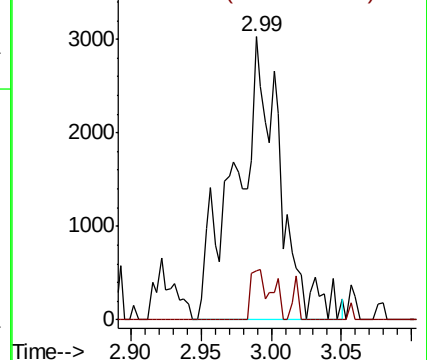
51 100

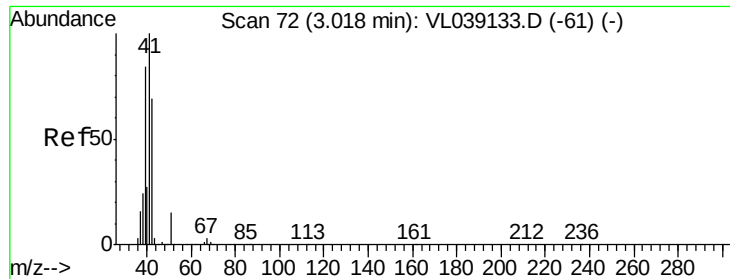
67 10.0 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.190 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039209.D

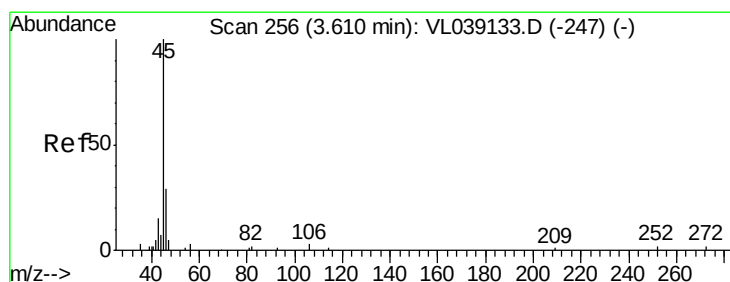
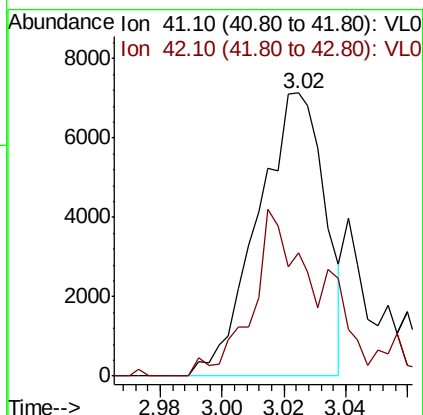
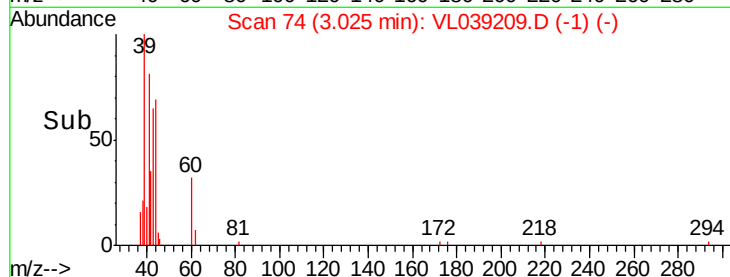
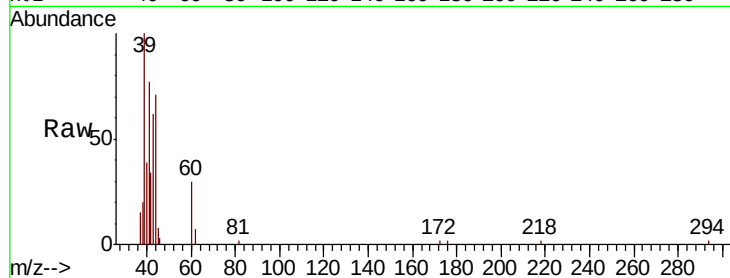
Acq: 7 Jun 2022 14:52

Tot Ion: 41 Resp: 10790

Ion Ratio Lower Upper

41 100

42 67.4 55.4 83.2



#13

Ethanol

Concen: 0.762 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL039209.D

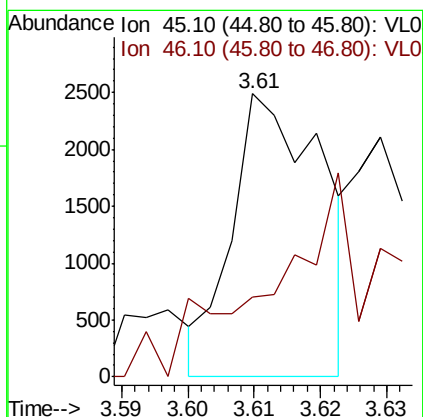
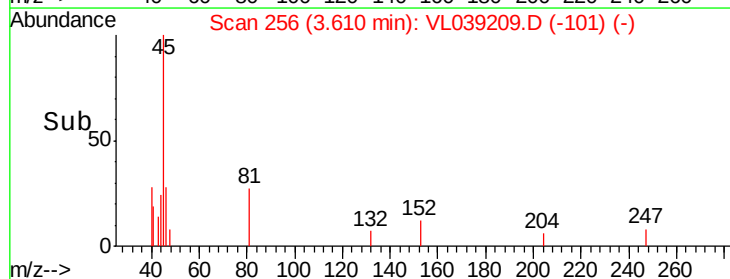
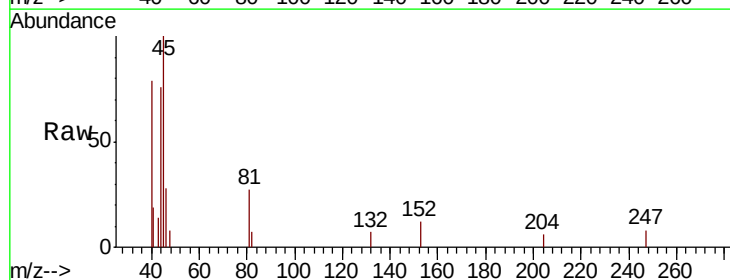
Acq: 7 Jun 2022 14:52

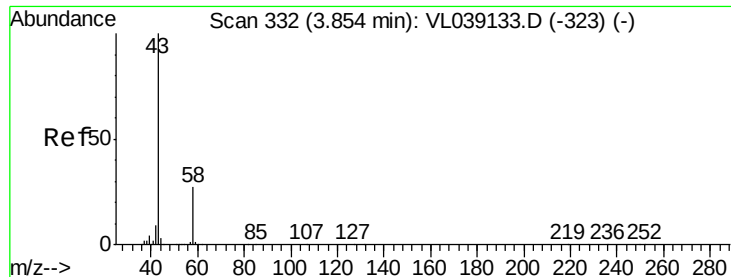
Tgt Ion: 45 Resp: 2355

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0





#15

Acetone

Concen: 0.233 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL039209.D

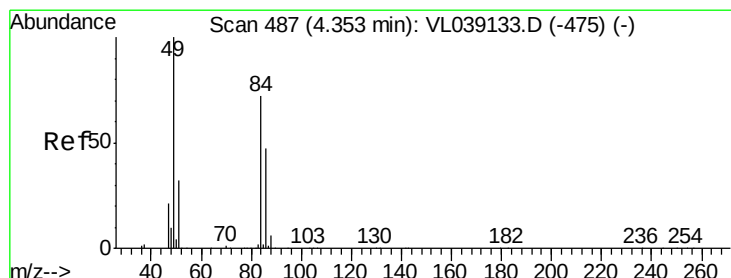
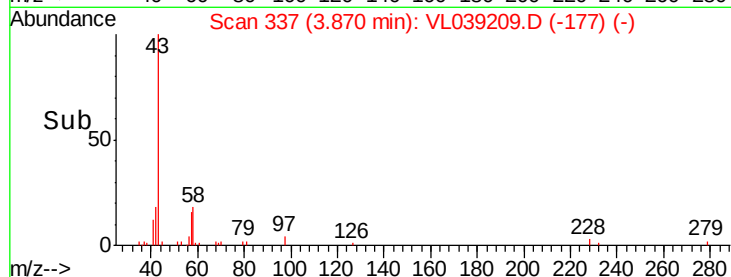
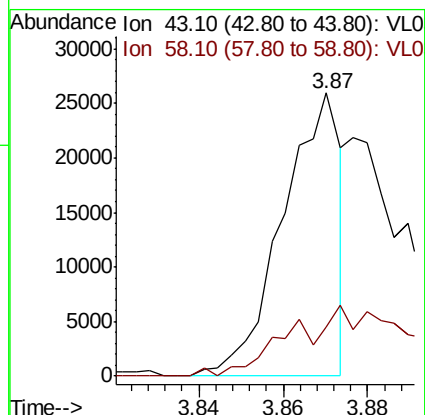
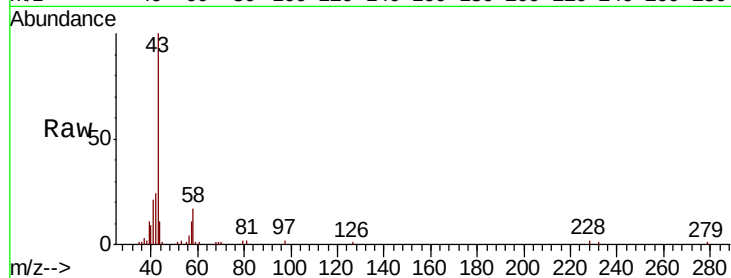
Acq: 7 Jun 2022 14:52

Tot Ion: 43 Resp: 24809

Ion Ratio Lower Upper

43 100

58 0.0 22.5 33.7#



#20

Methylene Chloride

Concen: 1.274 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.00 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

Tgt Ion: 84 Resp: 57118

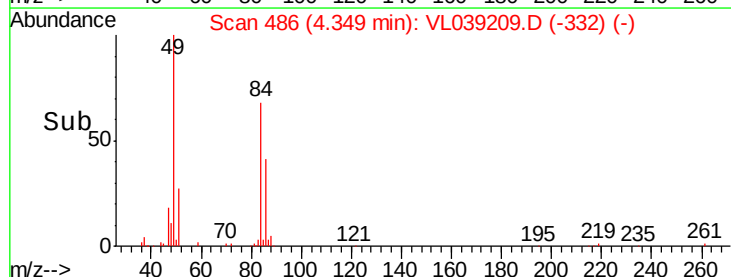
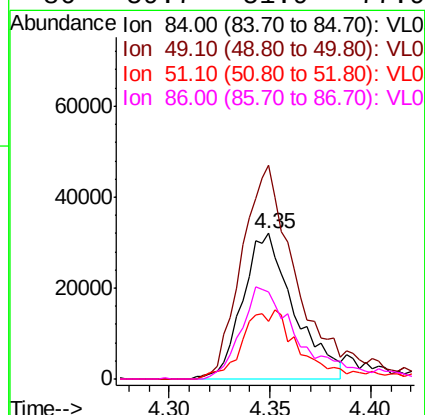
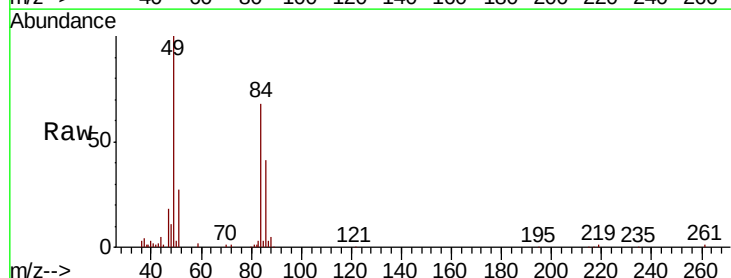
Ion Ratio Lower Upper

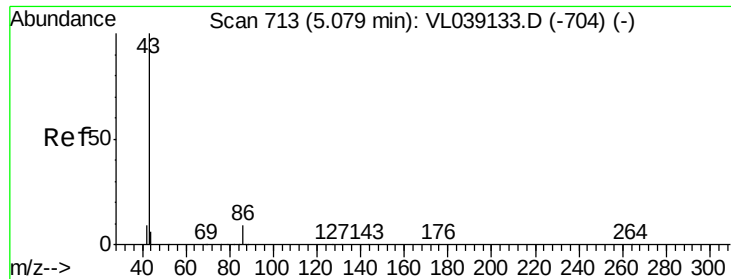
84 100

49 146.9 111.1 166.7

51 39.4 35.3 52.9

86 59.7 51.9 77.9





#23

Vinyl Acetate

Concen: 0.039 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

Tot Ion: 43 Resp: 3418

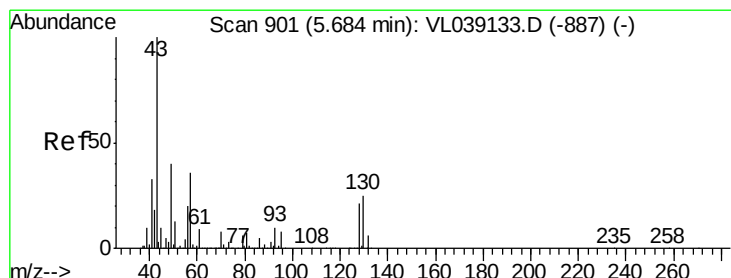
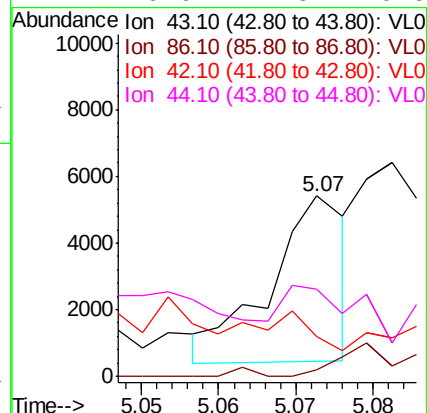
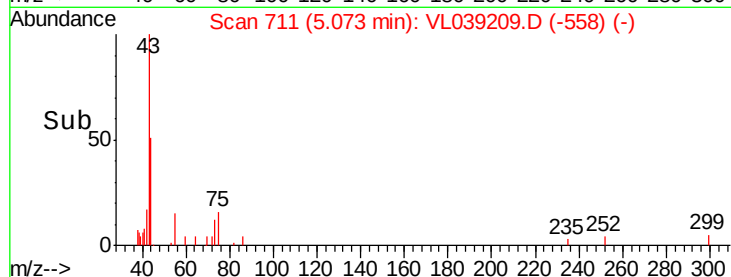
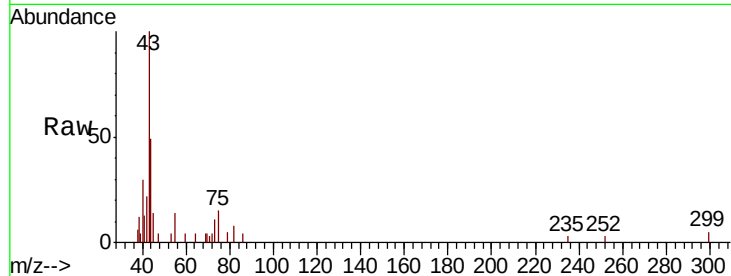
Ion Ratio Lower Upper

43 100

86 3.0 6.0 9.0#

42 6.0 8.2 12.4#

44 10.9 4.3 6.5#



#25

Ethyl Acetate

Concen: 0.095 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

Tgt Ion: 43 Resp: 22765

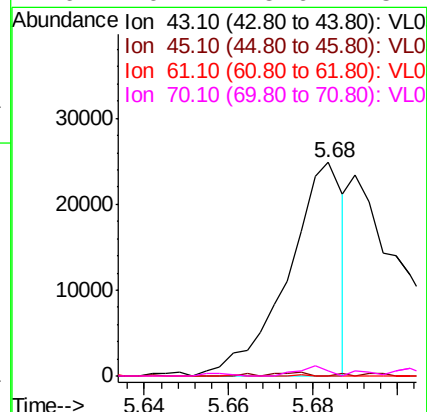
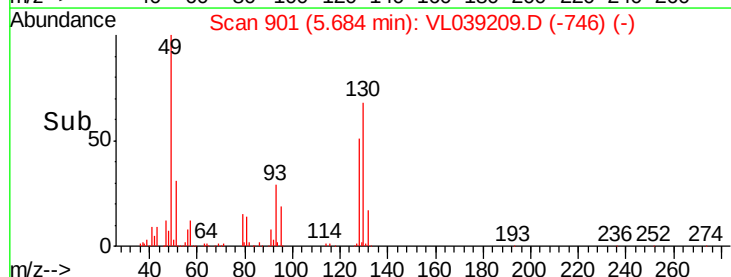
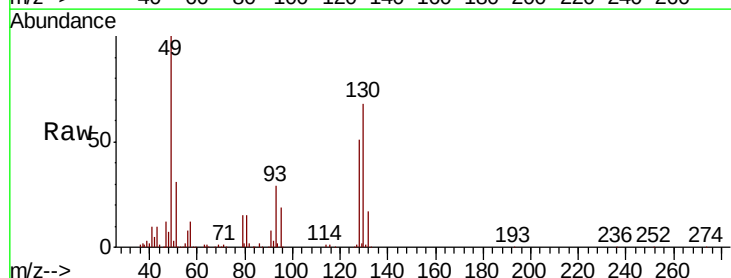
Ion Ratio Lower Upper

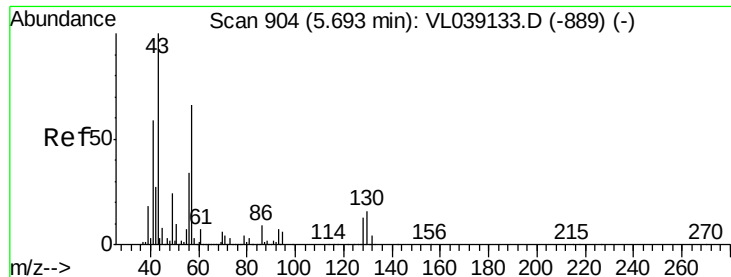
43 100

45 1.3 8.2 12.2#

61 0.3 8.4 12.6#

70 6.4 5.6 8.4





#26

Hexane

Concen: 0.610 ppbv

RT: 5.69 min Scan# 902

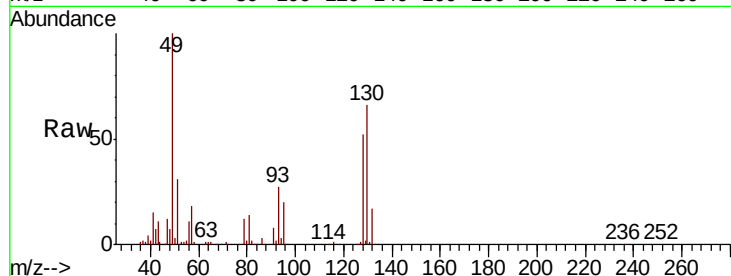
Delta R.T. -0.01 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

Tot Ion: 57 Resp: 64323

Ion	Ratio	Lower	Upper
57	100		
41	102.5	72.4	108.6
43	77.6	187.0	280.6#
56	63.3	41.8	62.6#

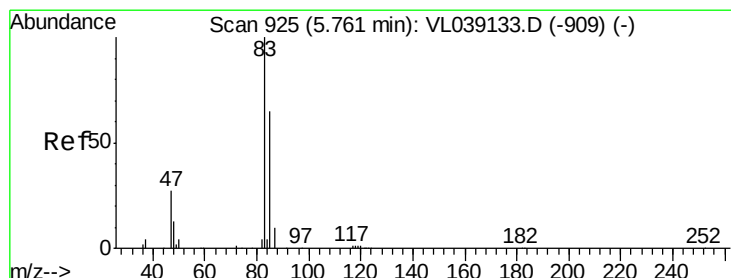
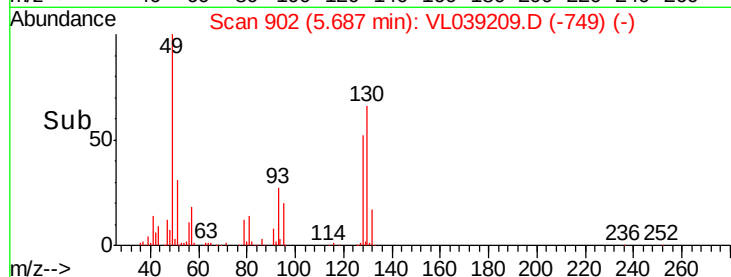
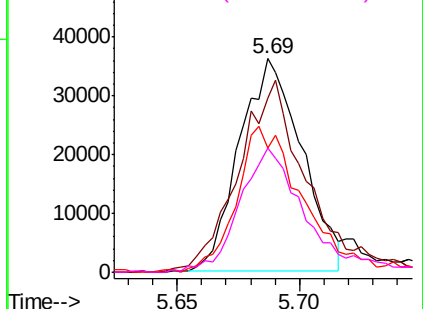


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.065 ppbv

RT: 5.76 min Scan# 924

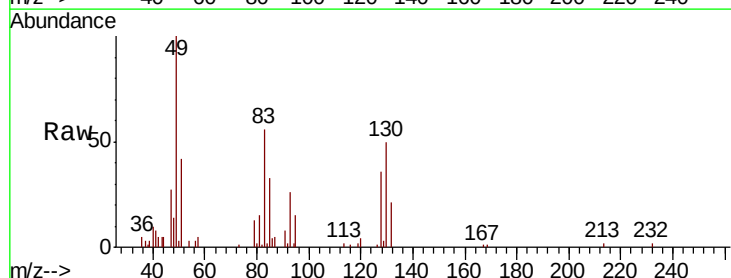
Delta R.T. -0.00 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

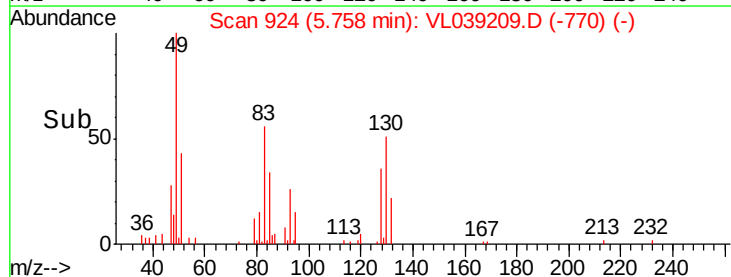
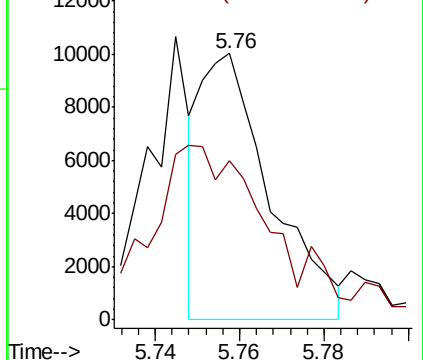
Tgt Ion: 83 Resp: 11569

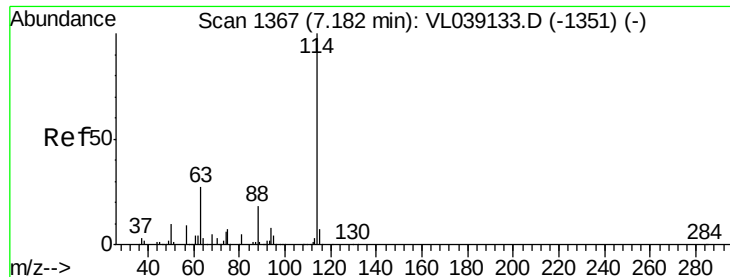
Ion	Ratio	Lower	Upper
83	100		
85	58.8	52.4	78.6



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: VL039209.D

Acq: 7 Jun 2022 14:52

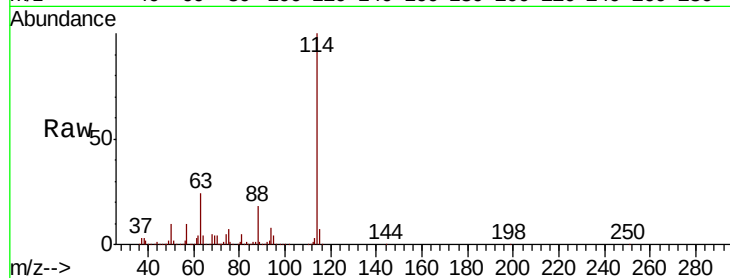
Tot Ion:114 Resp: 2722001

Ion Ratio Lower Upper

114 100

63 25.3 21.7 32.5

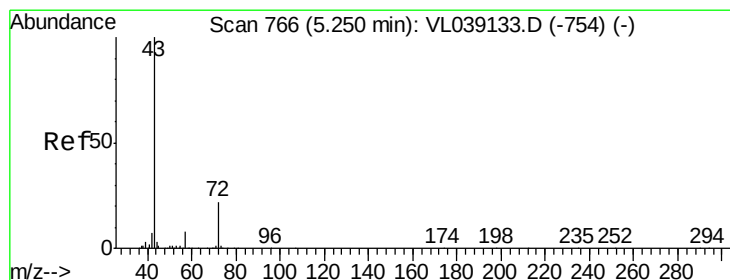
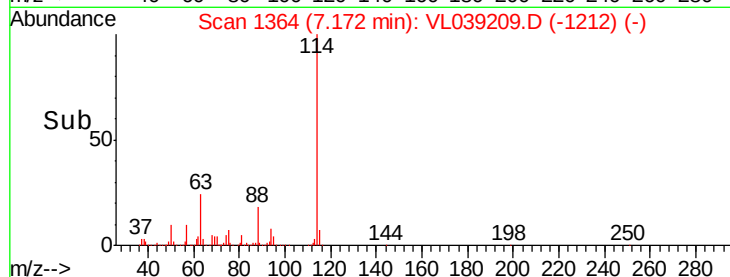
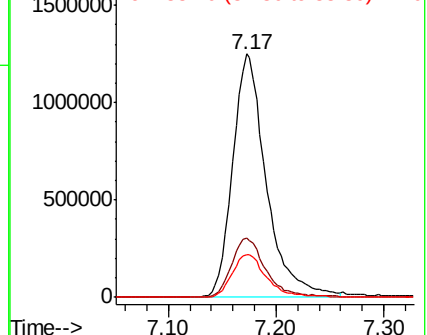
88 18.3 14.8 22.2



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.074 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL039209.D

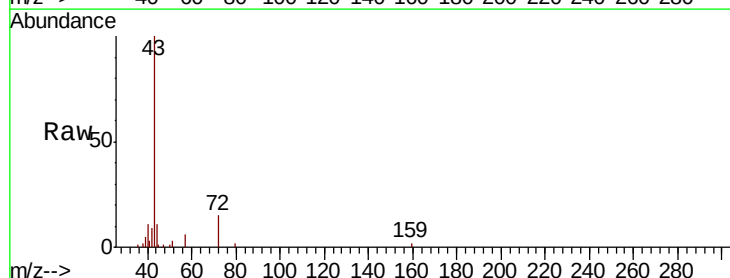
Acq: 7 Jun 2022 14:52

Tgt Ion: 43 Resp: 11012

Ion Ratio Lower Upper

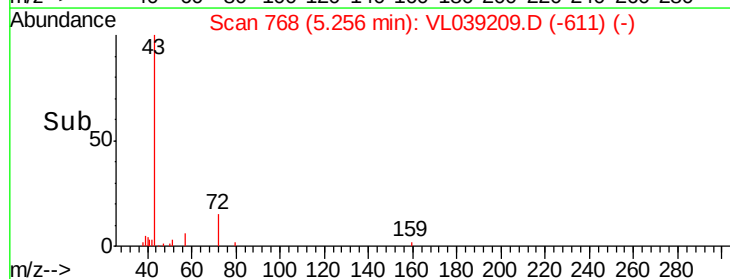
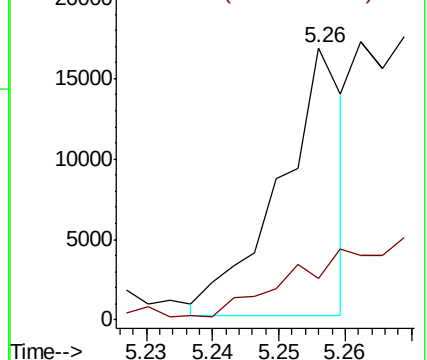
43 100

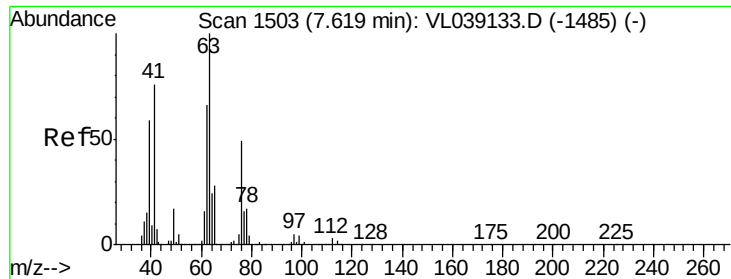
72 0.0 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.109 ppbv

RT: 7.23 min Scan# 1383

Delta R.T. -0.39 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

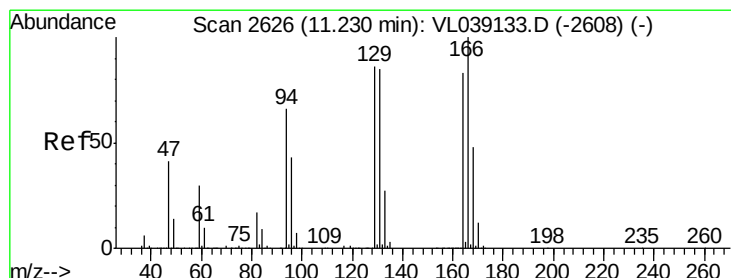
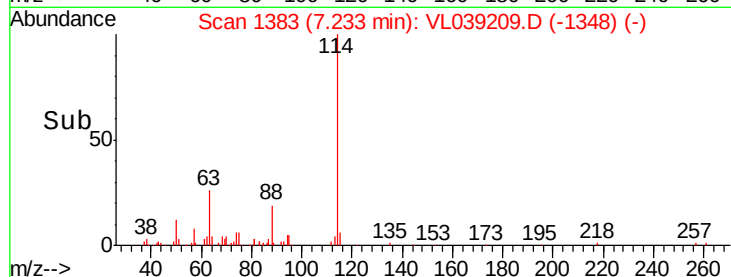
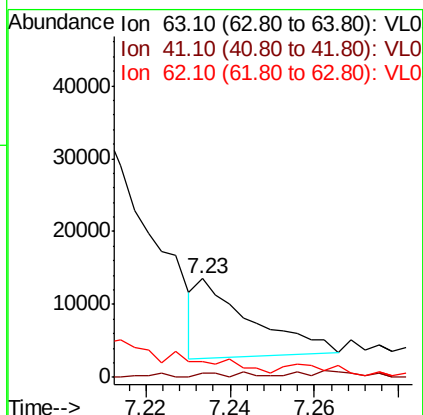
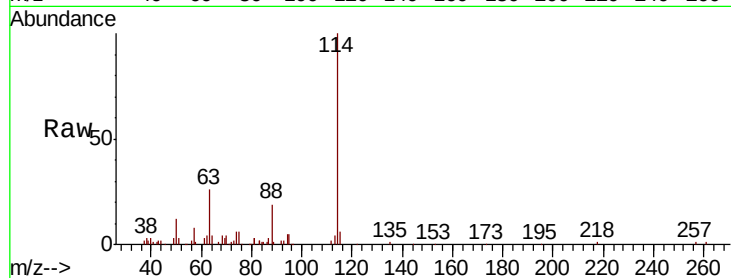
Tot Ion: 63 Resp: 9621

Ion Ratio Lower Upper

63 100

41 5.7 60.8 91.2#

62 5.0 52.9 79.3#



#52

Tetrachloroethene

Concen: 0.256 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.02 min

Lab File: VL039209.D

Acq: 7 Jun 2022 14:52

Tgt Ion: 164 Resp: 22058

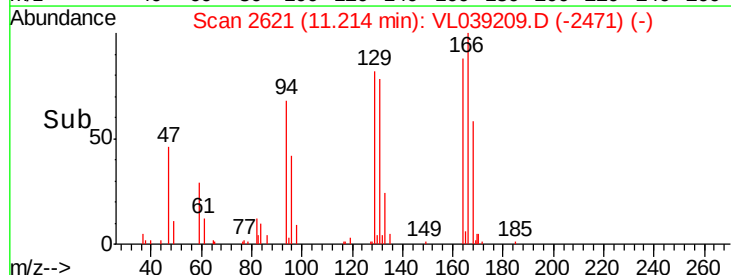
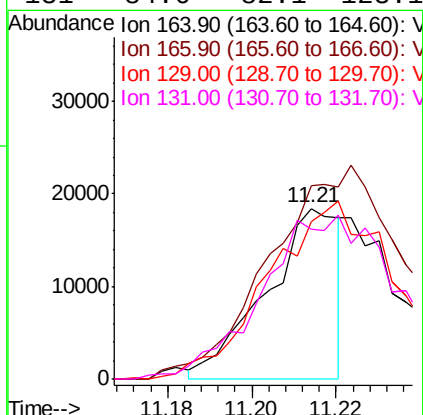
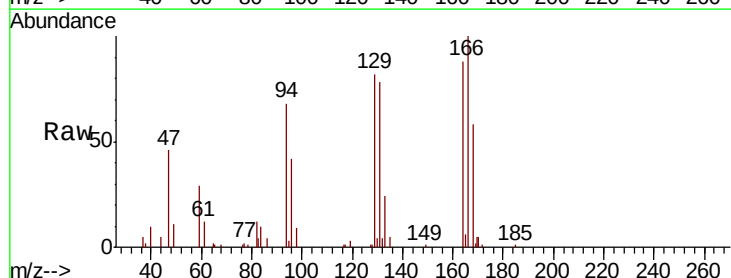
Ion Ratio Lower Upper

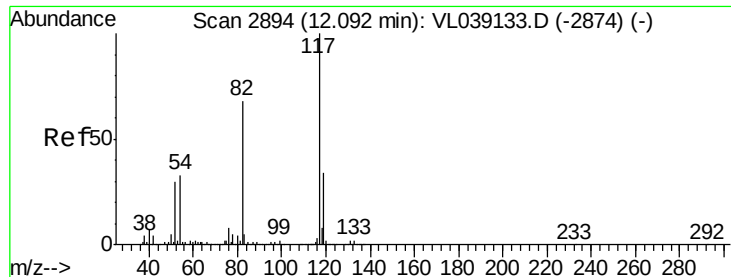
164 100

166 110.3 96.3 144.5

129 88.4 82.5 123.7

131 84.6 82.1 123.1

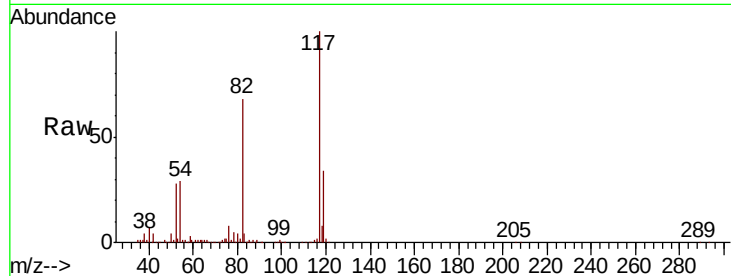




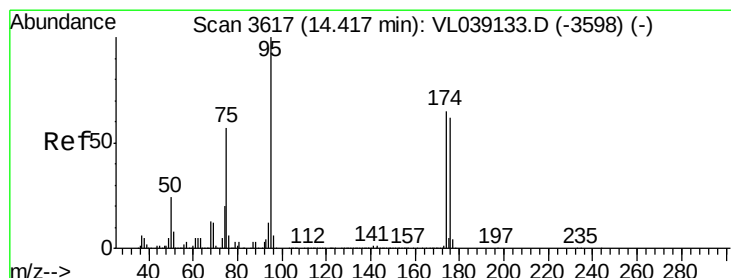
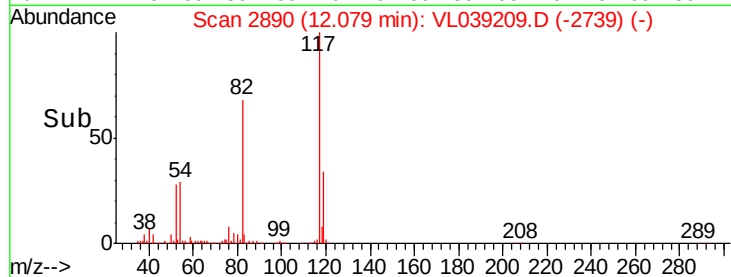
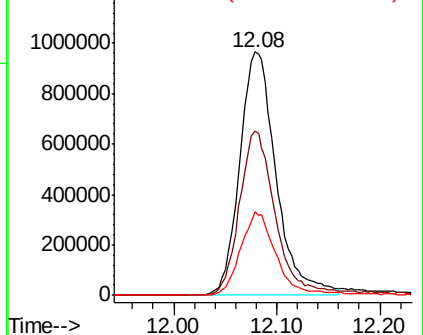
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL039209.D
Acq: 7 Jun 2022 14:52

Tot Ion:117 Resp: 2375140

Ion	Ratio	Lower	Upper
117	100		
82	69.2	55.1	82.7
119	34.0	24.7	37.1



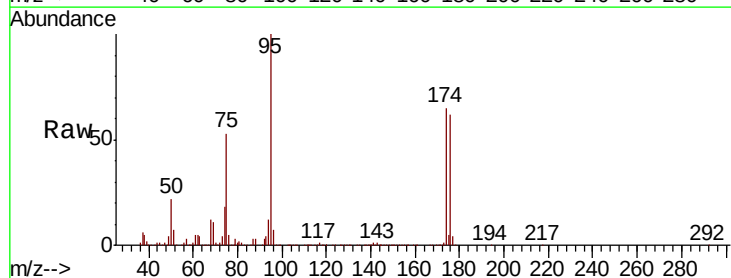
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.357 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. -0.01 min
Lab File: VL039209.D
Acq: 7 Jun 2022 14:52

Tgt Ion: 95 Resp: 1837367

Ion	Ratio	Lower	Upper
95	100		
174	71.1	53.8	80.8
175	5.1	4.1	6.1



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

