

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039217.D
 Acq On : 7 Jun 2022 20:15
 Operator : SY/AP
 Sample : N3187-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:00:50 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	861305	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1975511	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1688520	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1431034	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

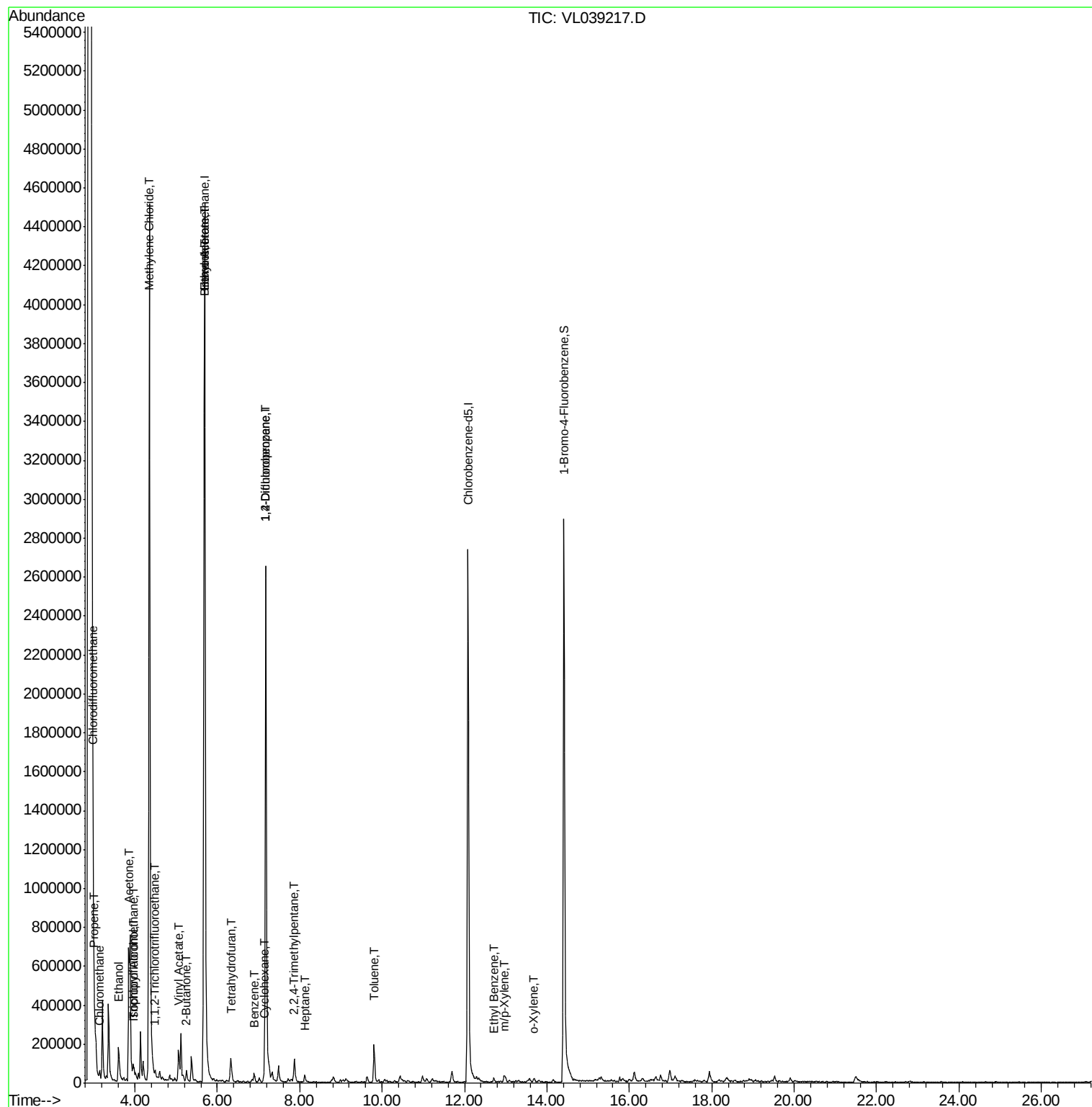
Target Compounds

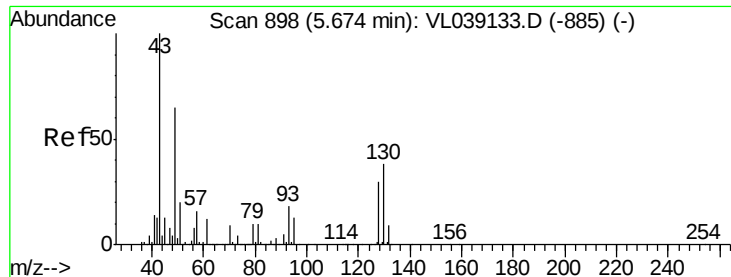
					Ovalue
3) Chlorodifluoromethane	2.99	51	66585	0.608 ppbv	91
4) Chloromethane	3.14	50	34969	0.621 ppbv	96
9) Propene	3.02	41	35048	0.733 ppbv #	73
10) Heptane	8.12	43	6847	0.061 ppbv #	12
11) Trichlorofluoromethane	3.96	101	19745	0.144 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4968	0.055 ppbv #	12
13) Ethanol	3.60	45	231085	88.673 ppbv #	100
15) Acetone	3.85	43	1022865	11.401 ppbv	93
19) Isopropyl Alcohol	3.98	45	20725	0.492 ppbv #	93
20) Methylene Chloride	4.35	84	1951193	51.606 ppbv	95
23) Vinyl Acetate	5.07	43	95723	1.289 ppbv #	43
25) Ethyl Acetate	5.69	43	1221799	6.042 ppbv #	76
26) Hexane	5.69	57	1809177	20.359 ppbv #	38
30) Cyclohexane	7.13	84	8087	0.108 ppbv #	1
34) 2-Butanone	5.25	43	65917	0.614 ppbv	92
36) Benzene	6.89	78	33440	0.209 ppbv	96
39) 1,2-Dichloropropane	7.18	63	549912	8.620 ppbv #	25
41) Tetrahydrofuran	6.32	42	7684	0.119 ppbv #	36
44) 2,2,4-Trimethylpentane	7.87	57	96393	0.344 ppbv #	84
53) Toluene	9.80	91	124939	0.677 ppbv	98
58) Ethyl Benzene	12.71	91	7220	0.031 ppbv	98
59) m/p-Xylene	12.98	91	13188	0.064 ppbv #	1
60) o-Xylene	13.68	91	6071	0.032 ppbv #	31

(#) = 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 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL039217.D

Acq: 7 Jun 2022 20:15

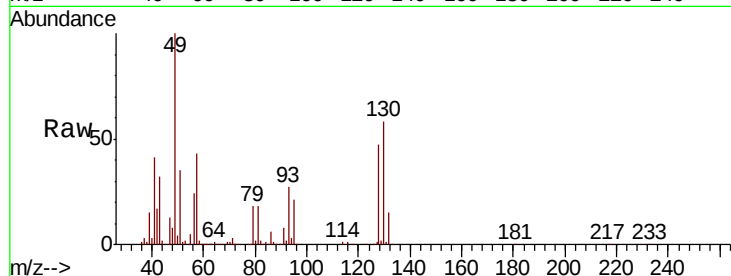
Tot Ion: 49 Resp: 861305

Ion Ratio Lower Upper

49 100

128 48.5 24.7 74.1

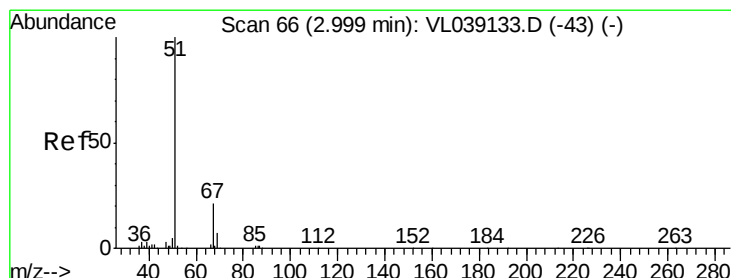
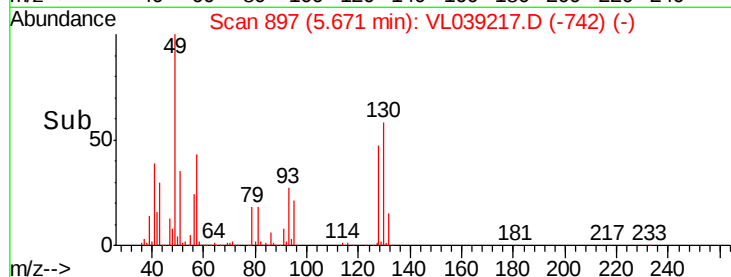
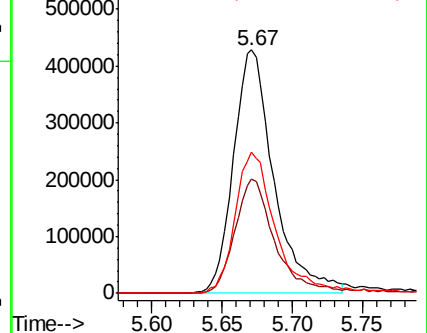
130 60.3 31.4 94.0



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: 0.608 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL039217.D

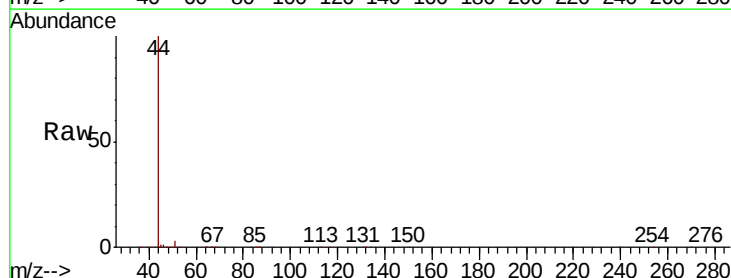
Acq: 7 Jun 2022 20:15

Tgt Ion: 51 Resp: 66585

Ion Ratio Lower Upper

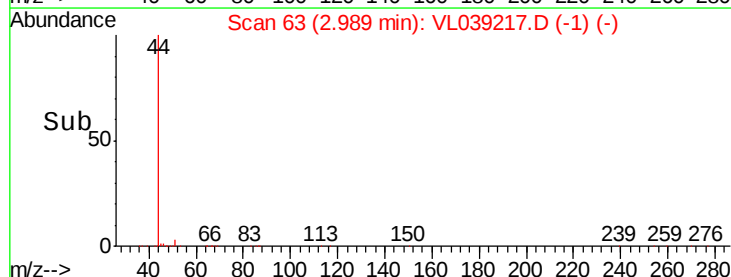
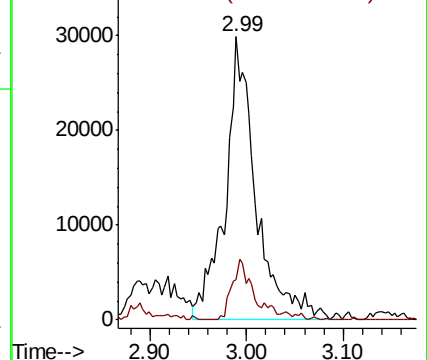
51 100

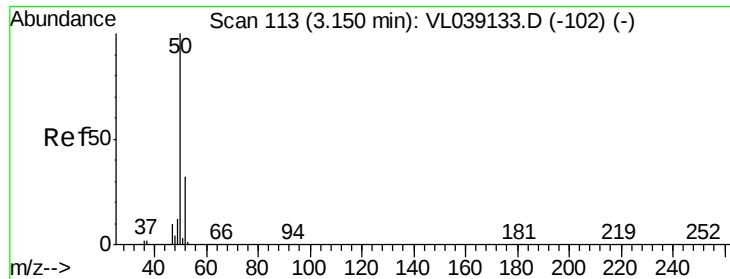
67 16.3 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.621 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL039217.D

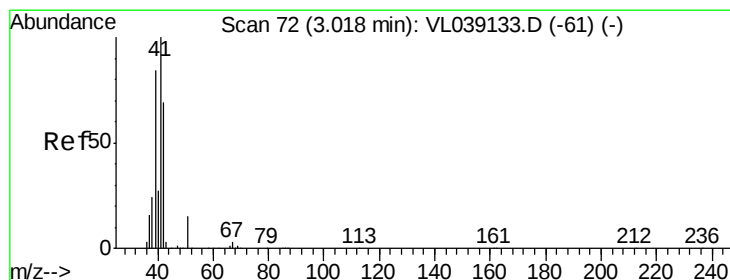
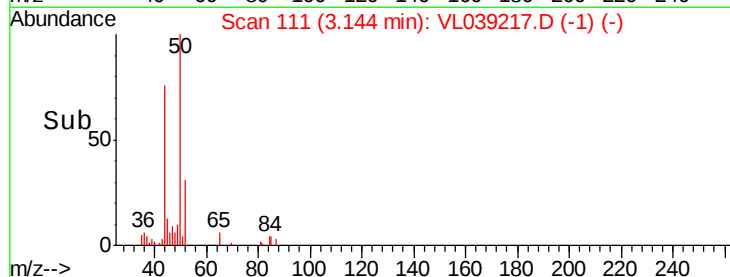
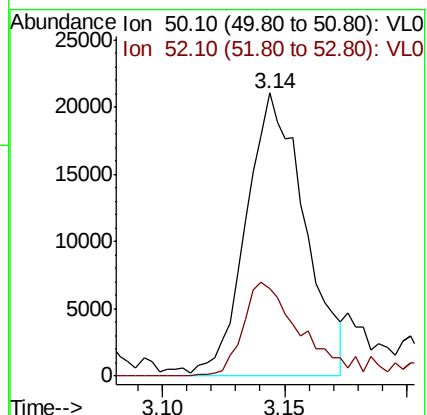
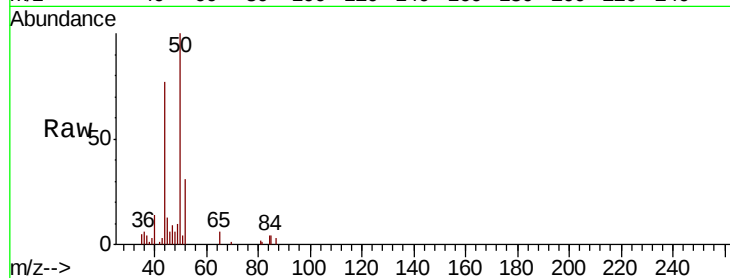
Acq: 7 Jun 2022 20:15

Tot Ion: 50 Resp: 34969

Ion Ratio Lower Upper

50 100

52 30.2 25.9 38.9



#9

Propene

Concen: 0.733 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039217.D

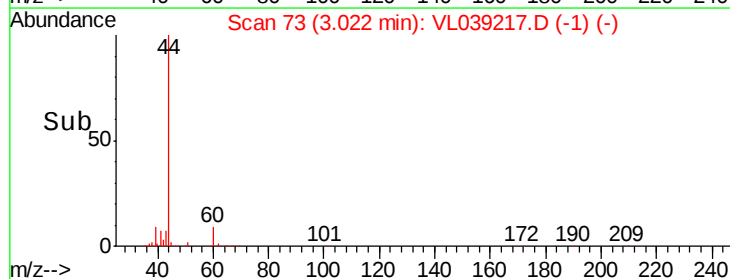
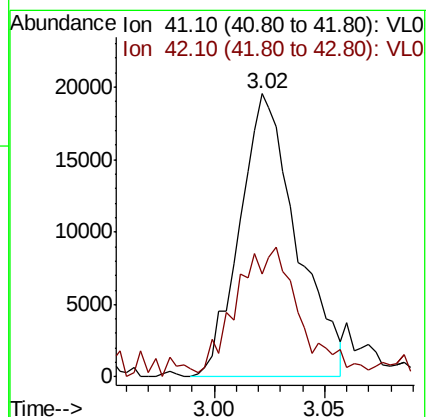
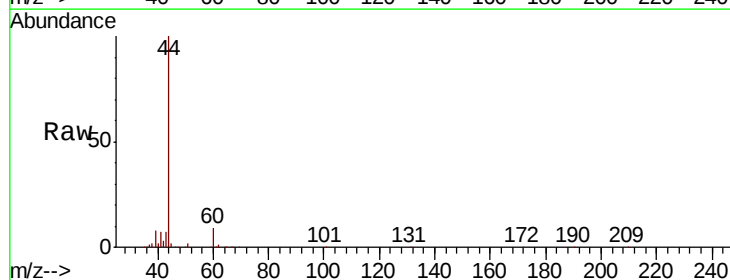
Acq: 7 Jun 2022 20:15

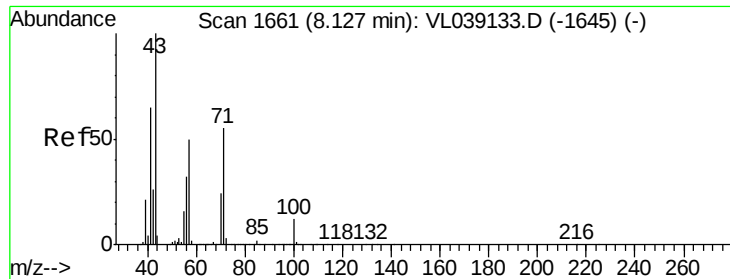
Tgt Ion: 41 Resp: 35048

Ion Ratio Lower Upper

41 100

42 47.6 55.4 83.2#





#10

Heptane

Concen: 0.061 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL039217.D

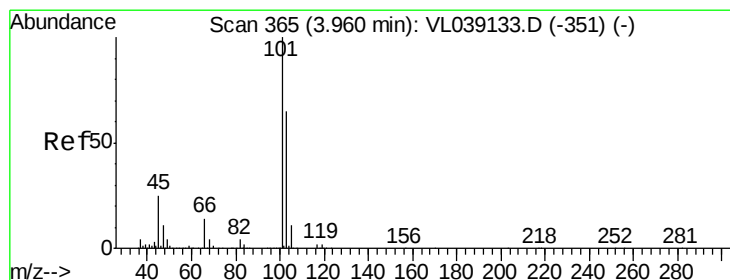
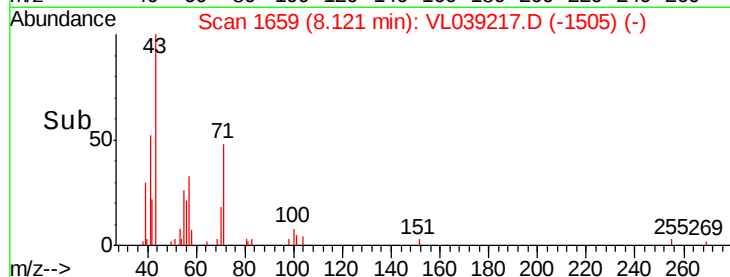
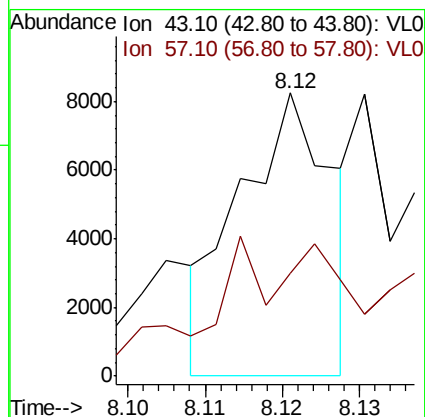
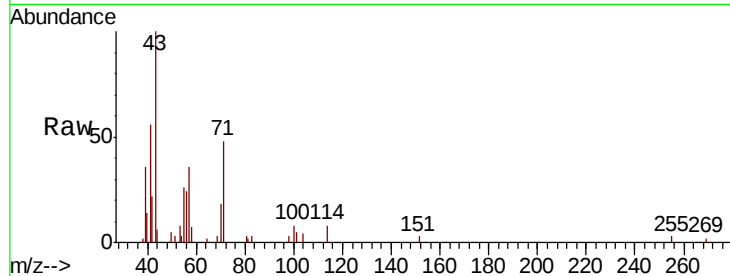
Acq: 7 Jun 2022 20:15

Tot Ion: 43 Resp: 6847

Ion Ratio Lower Upper

43 100

57 113.6 41.4 62.2#



#11

Trichlorofluoromethane

Concen: 0.144 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL039217.D

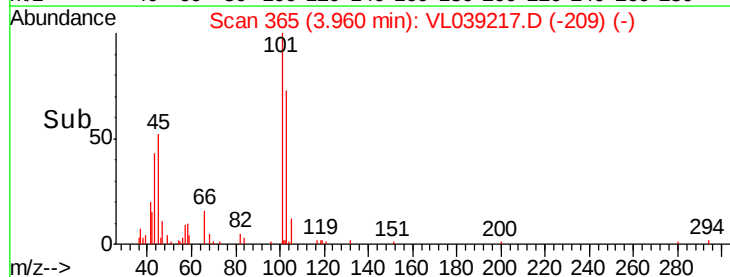
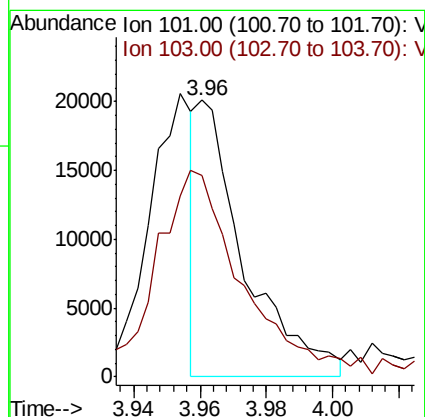
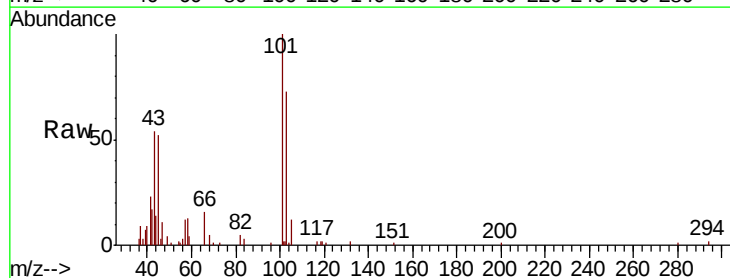
Acq: 7 Jun 2022 20:15

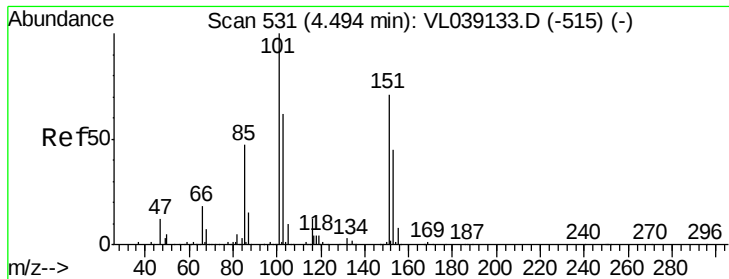
Tgt Ion:101 Resp: 19745

Ion Ratio Lower Upper

101 100

103 70.5 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.00 min

Lab File: VL039217.D

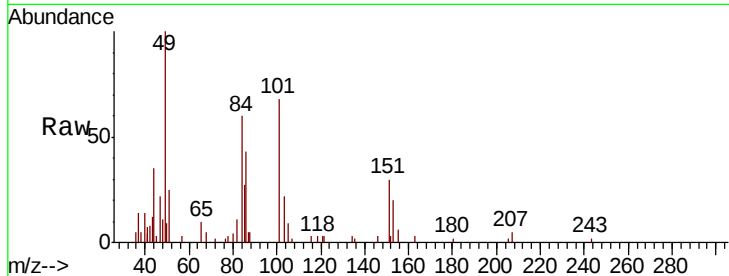
Acq: 7 Jun 2022 20:15

Tot Ion:101 Resp: 4968

Ion Ratio Lower Upper

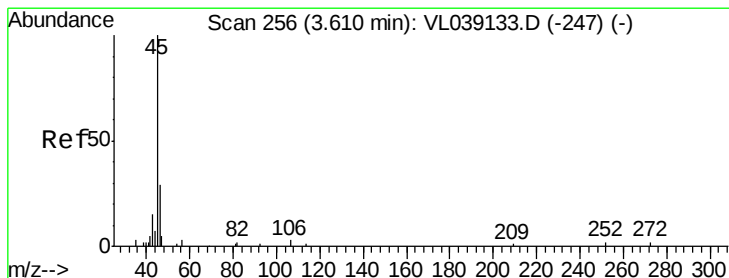
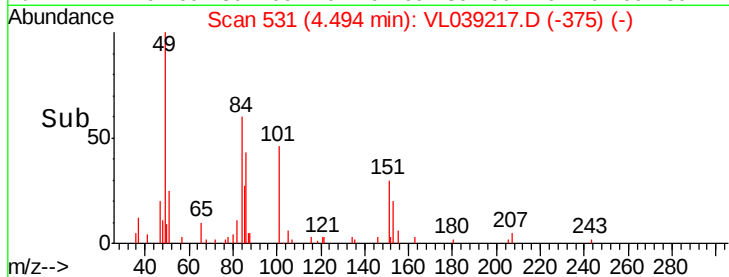
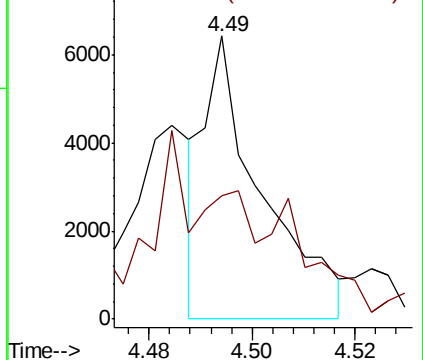
101 100

151 0.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 88.673 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL039217.D

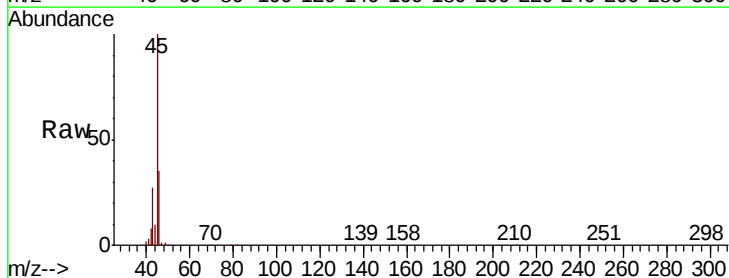
Acq: 7 Jun 2022 20:15

Tgt Ion: 45 Resp: 231085

Ion Ratio Lower Upper

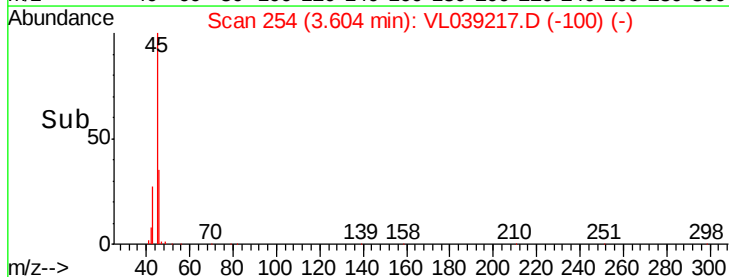
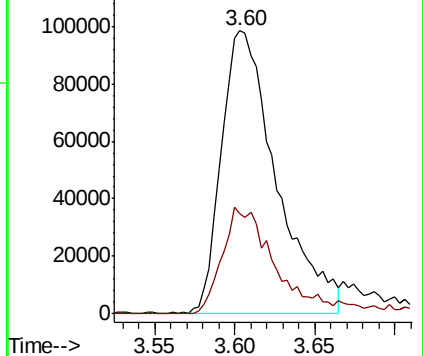
45 100

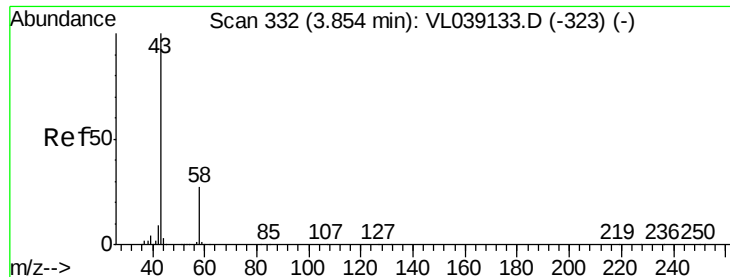
46 39.2 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 11.401 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL039217.D

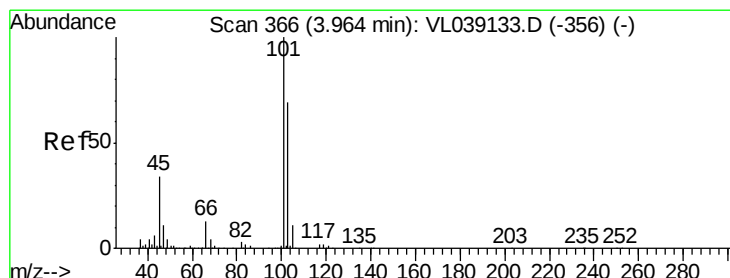
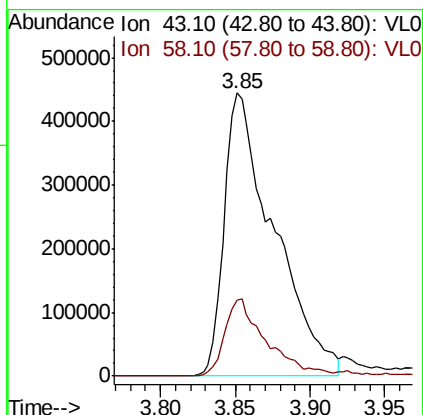
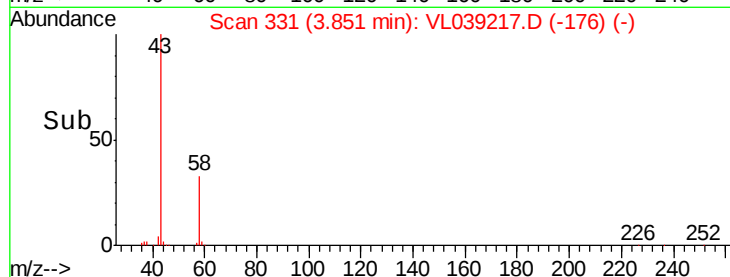
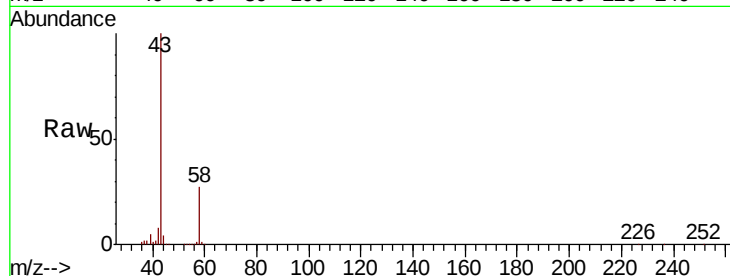
Acq: 7 Jun 2022 20:15

Tot Ion: 43 Resp: 1022865

Ion Ratio Lower Upper

43 100

58 24.5 22.5 33.7



#19

Isopropyl Alcohol

Concen: 0.492 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL039217.D

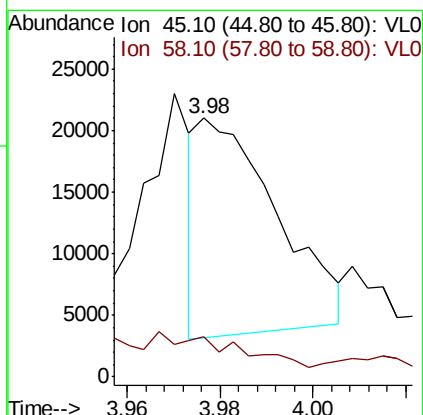
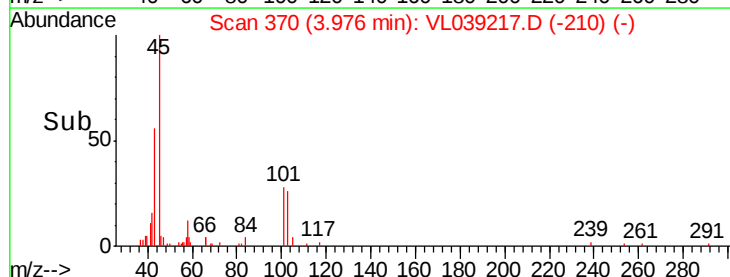
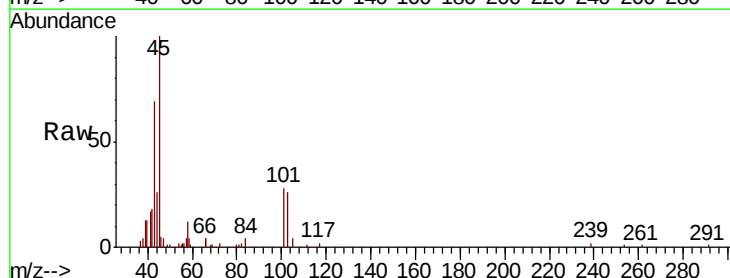
Acq: 7 Jun 2022 20:15

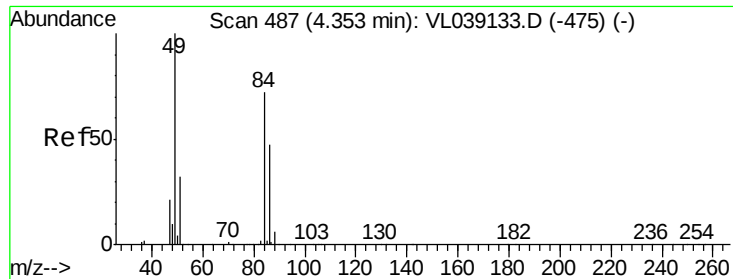
Tgt Ion: 45 Resp: 20725

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#

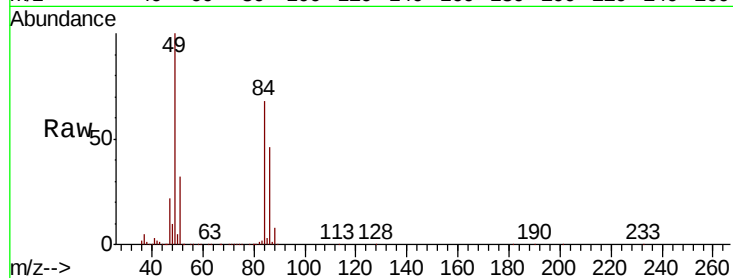




#20
Methvlene Chloride
Concen: 51.606 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.00 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tot Ion: 84 Resp: 1951193

Ion	Ratio	Lower	Upper
84	100		
49	146.4	111.1	166.7
51	47.1	35.3	52.9
86	67.0	51.9	77.9

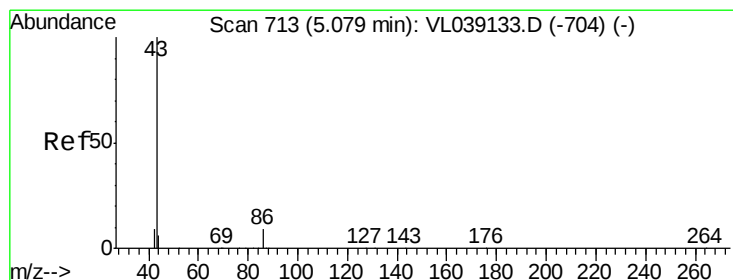
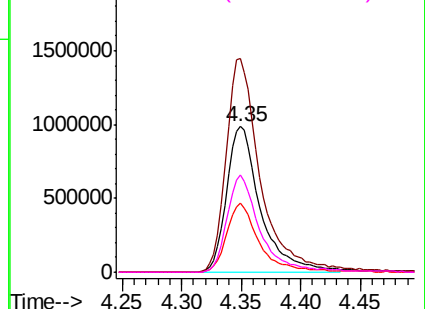
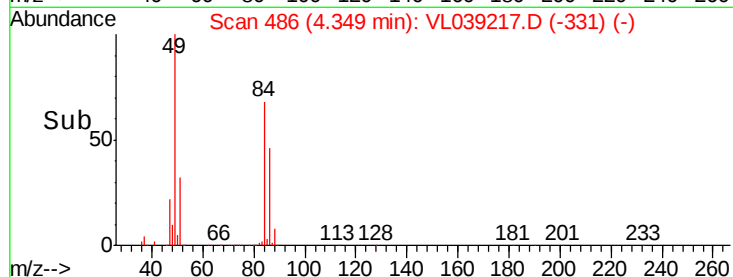


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

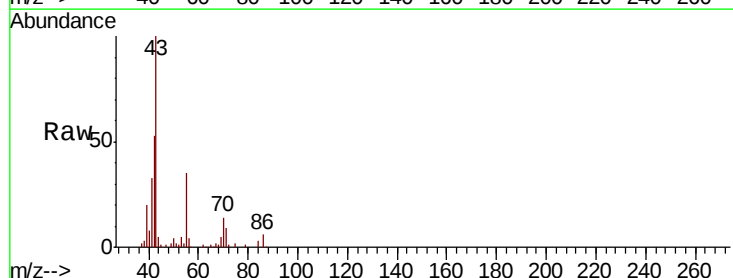
Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 1.289 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tgt Ion: 43 Resp: 95723

Ion	Ratio	Lower	Upper
43	100		
86	4.7	6.0	9.0#
42	52.6	8.2	12.4#
44	0.0	4.3	6.5#

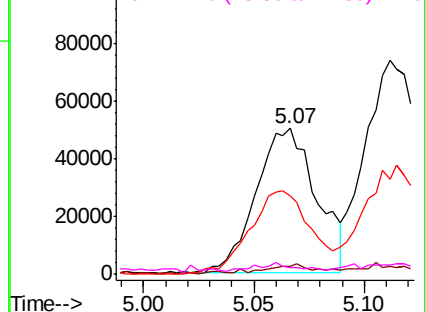
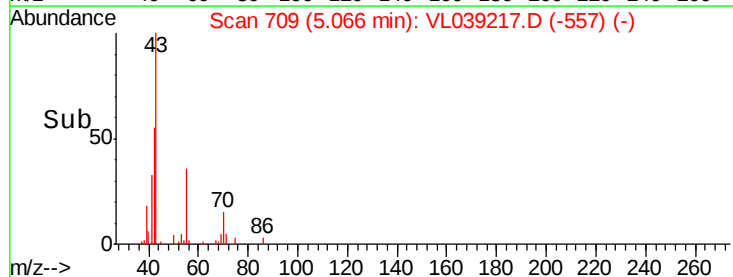


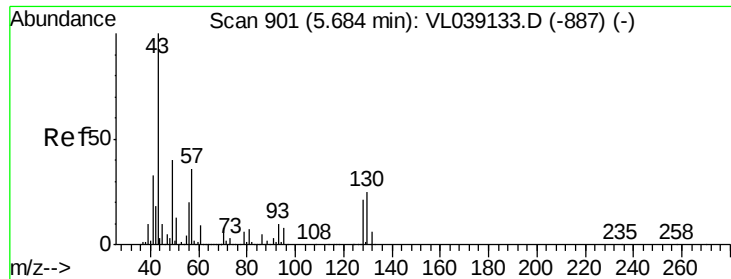
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

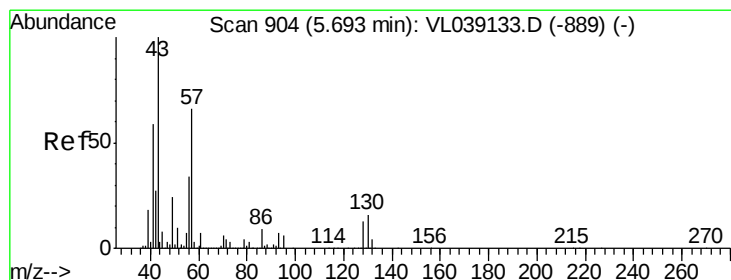
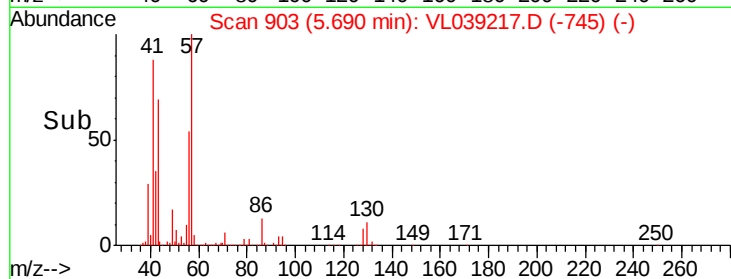
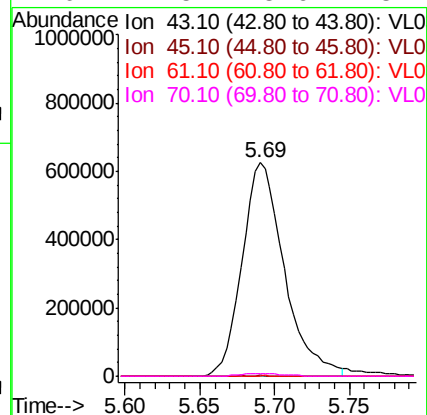
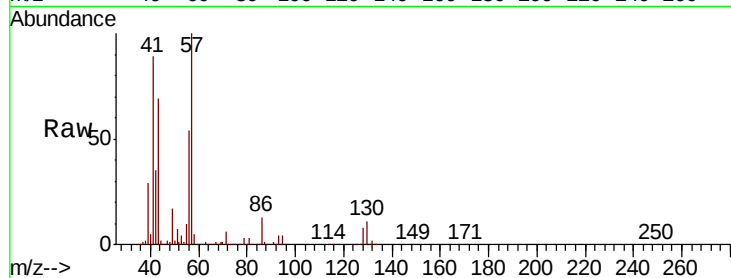
Ion 44.10 (43.80 to 44.80): VL0





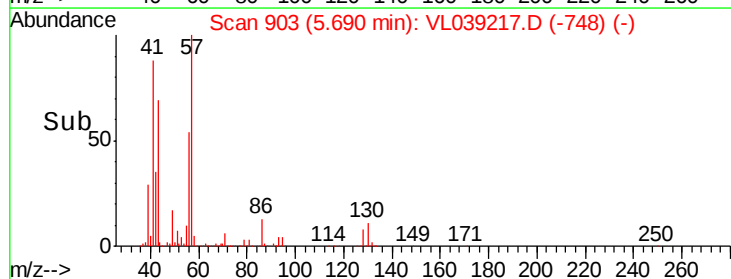
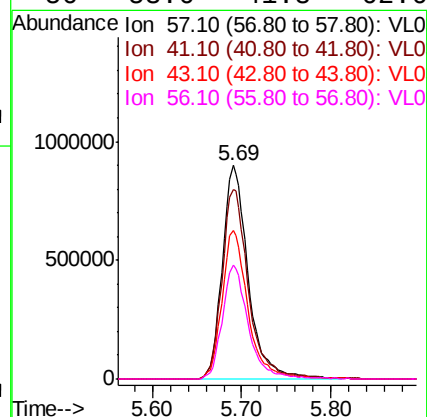
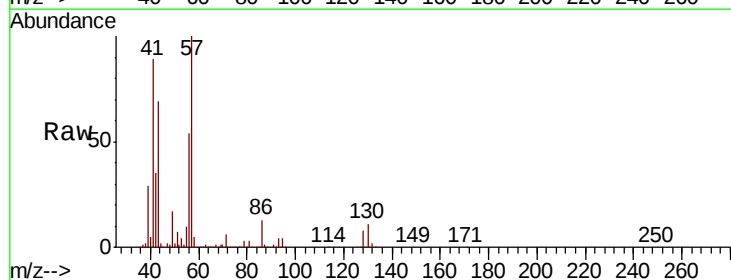
#25
Ethyl Acetate
Concen: 6.042 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

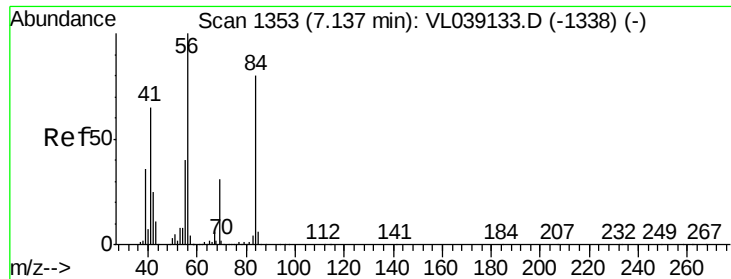
Tot Ion:	43	Resp:	1221799
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.2#
61	0.3	8.4	12.6#
70	1.5	5.6	8.4#



#26
Hexane
Concen: 20.359 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

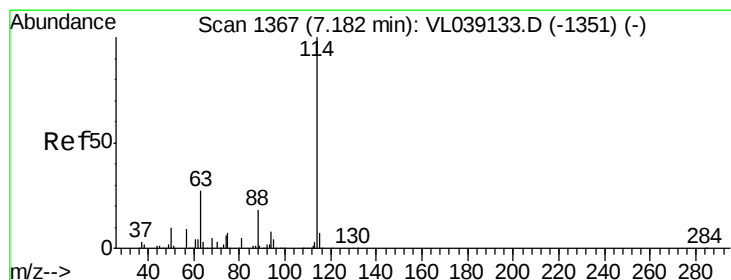
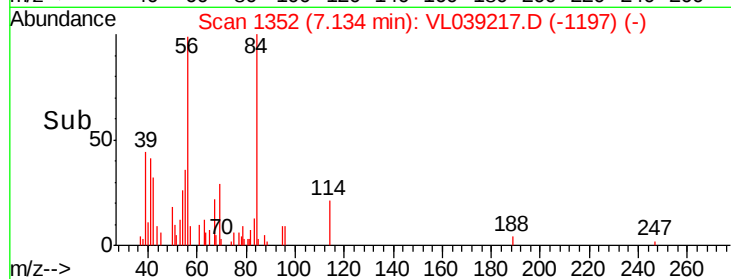
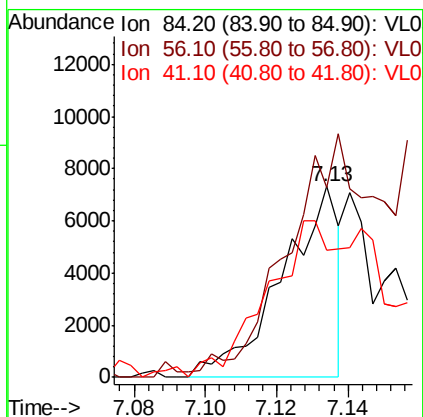
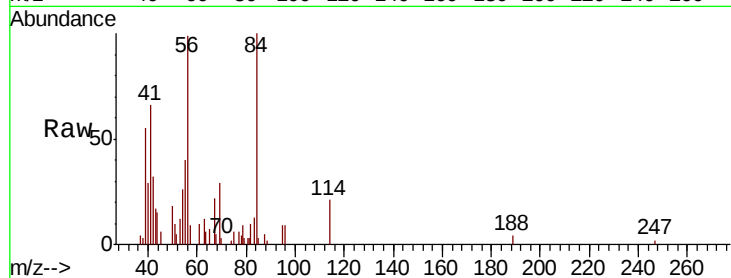
Tgt Ion:	57	Resp:	1809177
Ion	Ratio	Lower	Upper
57	100		
41	91.8	72.4	108.6
43	69.8	187.0	280.6#
56	53.6	41.8	62.6





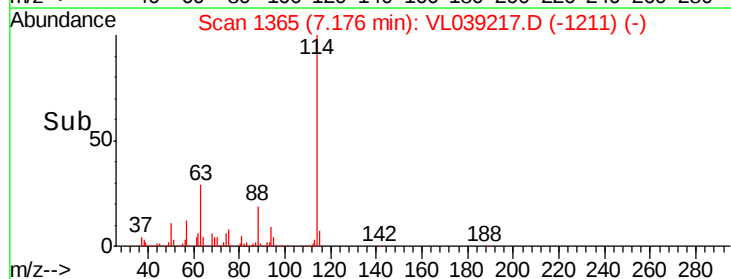
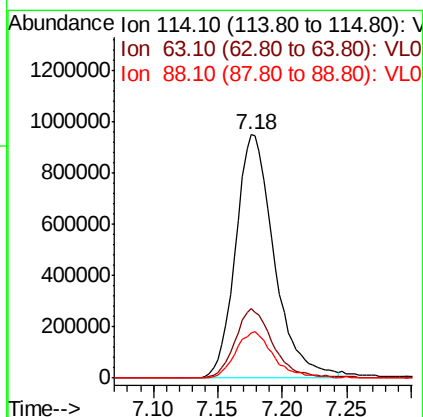
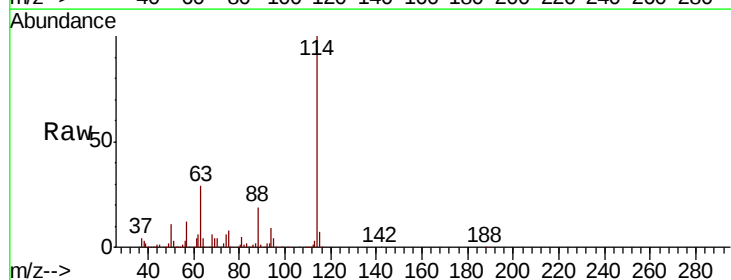
#30
Cyclohexane
Concen: 0.108 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

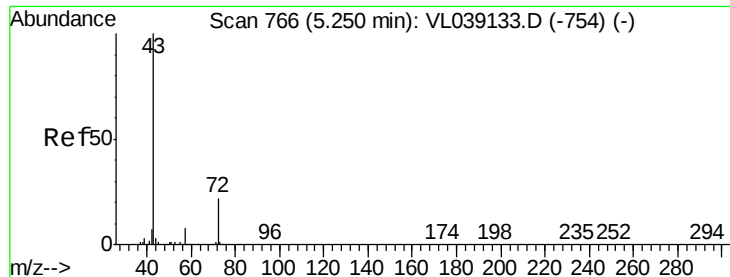
Tot Ion: 84 Resp: 8087
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 187.5 68.9 103.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

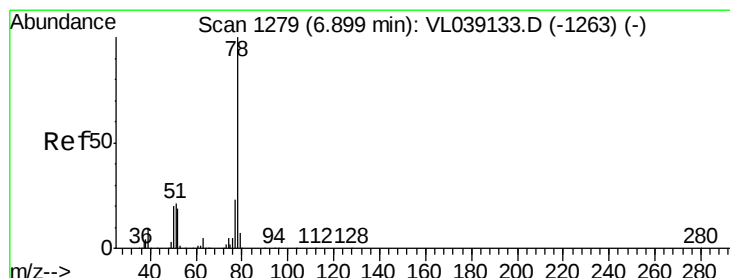
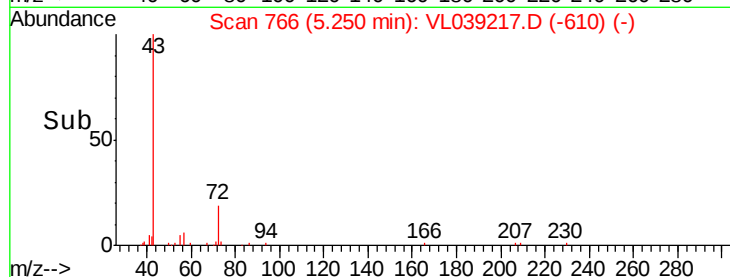
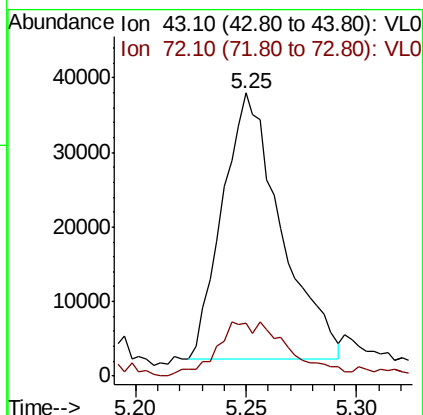
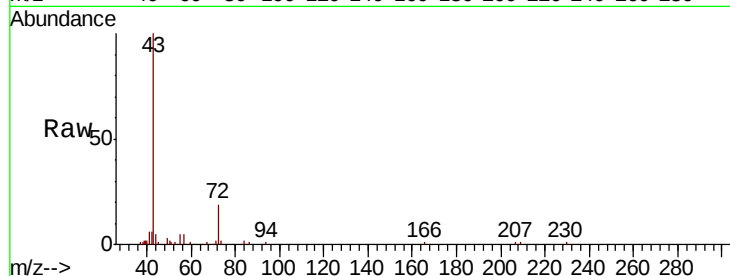
Tgt Ion: 114 Resp: 1975511
Ion Ratio Lower Upper
114 100
63 28.5 21.7 32.5
88 19.3 14.8 22.2





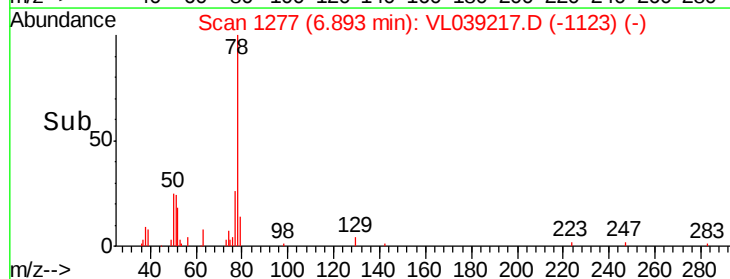
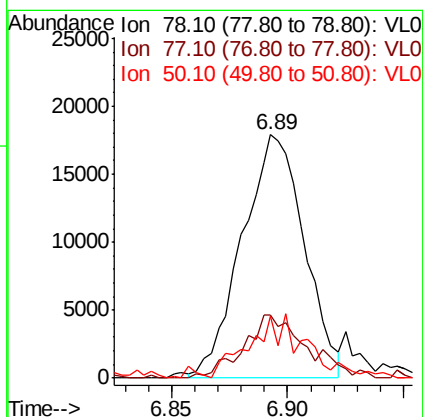
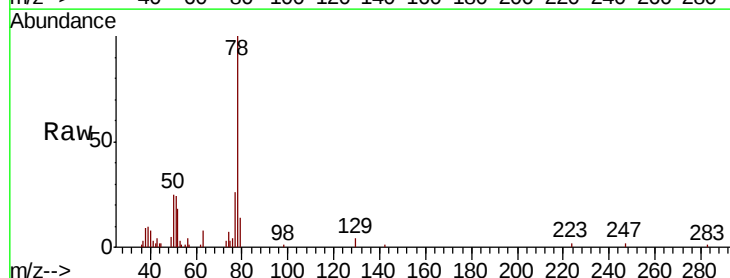
#34
2-Butanone
Concen: 0.614 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.00 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

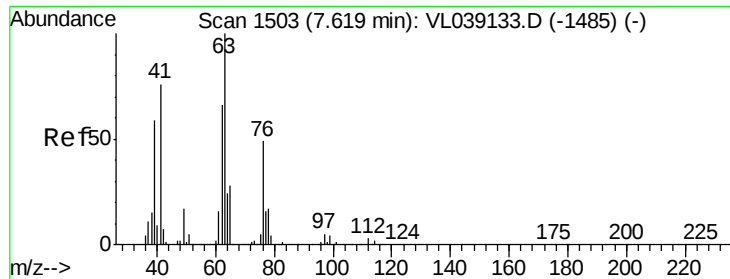
Tot Ion: 43 Resp: 65917
Ion Ratio Lower Upper
43 100
72 26.8 18.2 27.2



#36
Benzene
Concen: 0.209 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tgt Ion: 78 Resp: 33440
Ion Ratio Lower Upper
78 100
77 26.4 18.6 27.8
50 20.5 15.8 23.8





#39

1,2-Dichloropropane

Concen: 8.620 ppbv

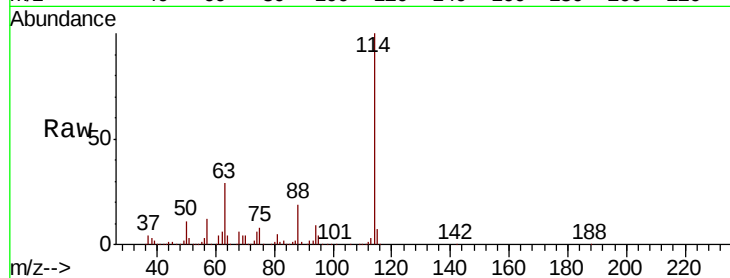
RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

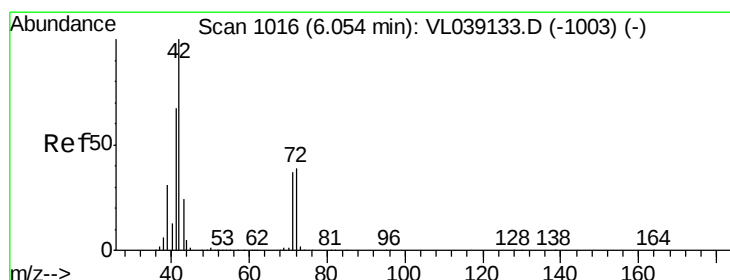
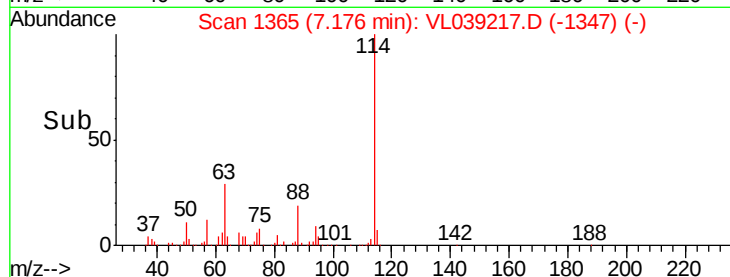
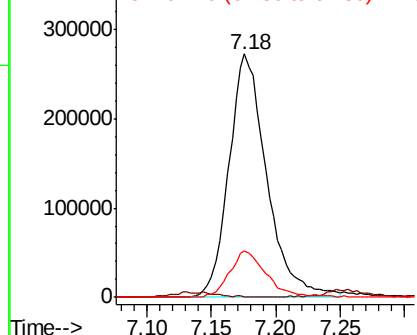
Lab File: VL039217.D

Acq: 7 Jun 2022 20:15

Tot Ion:	63	Resp:	549912
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	19.3	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: 0.119 ppbv

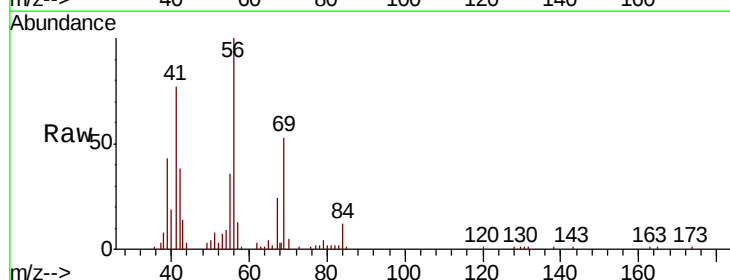
RT: 6.32 min Scan# 1100

Delta R.T. 0.27 min

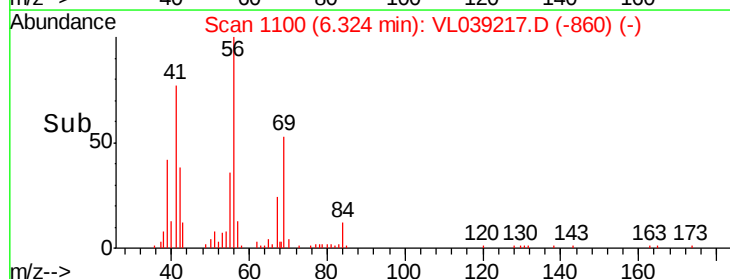
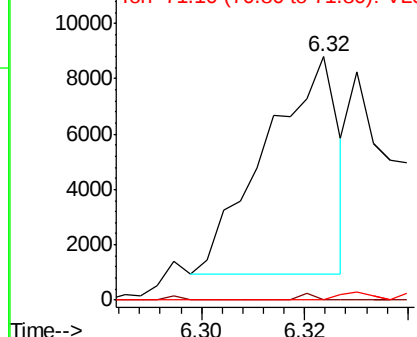
Lab File: VL039217.D

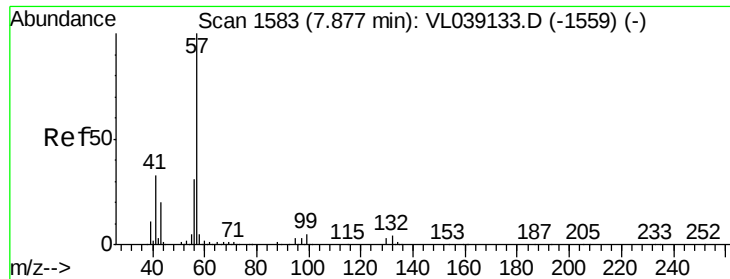
Acq: 7 Jun 2022 20:15

Tgt Ion:	42	Resp:	7684
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	0.0	31.1	46.7#



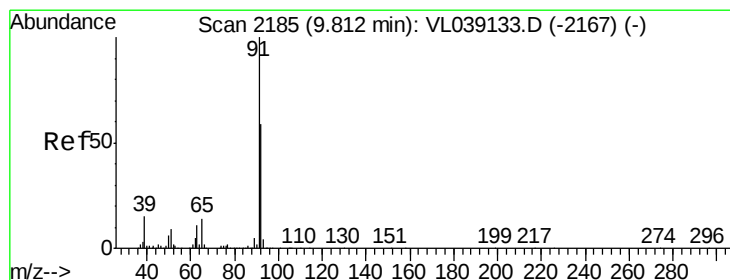
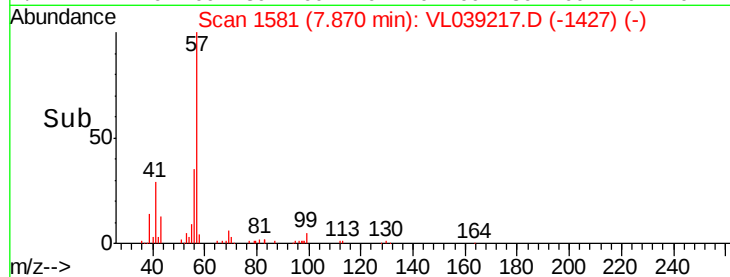
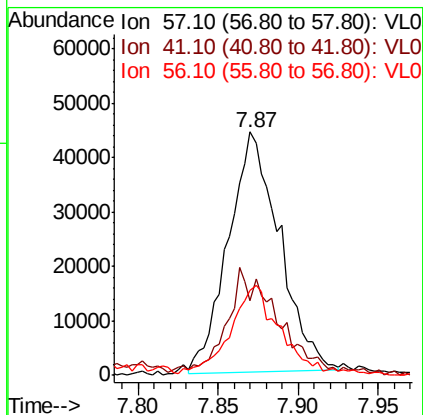
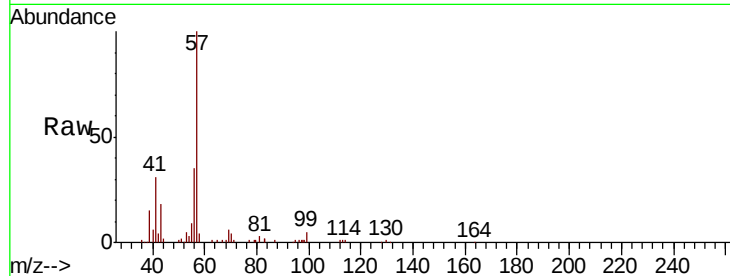
Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





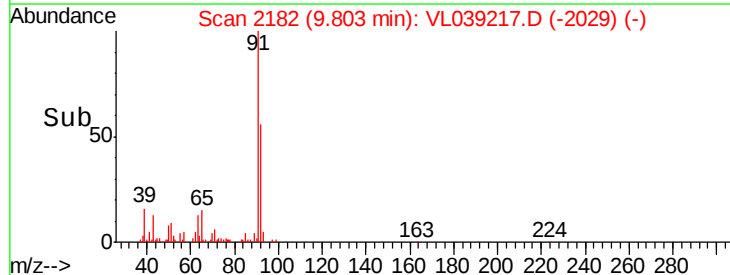
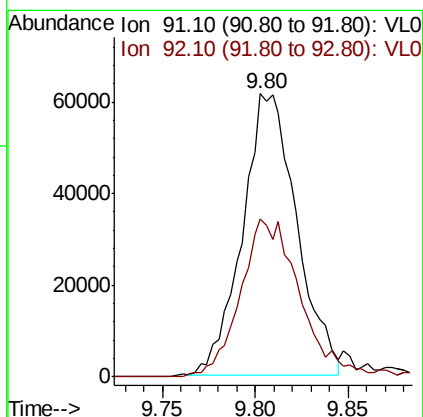
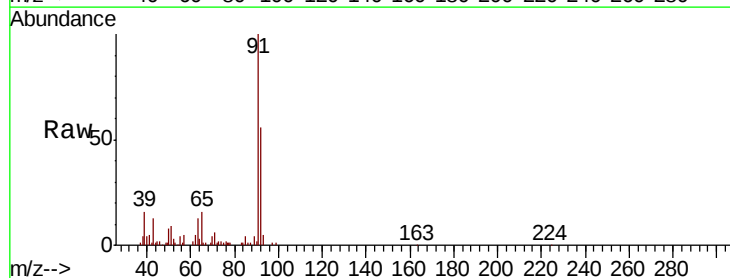
#44
 2,2,4-Trimethylpentane
 Concen: 0.344 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL039217.D
 Acq: 7 Jun 2022 20:15

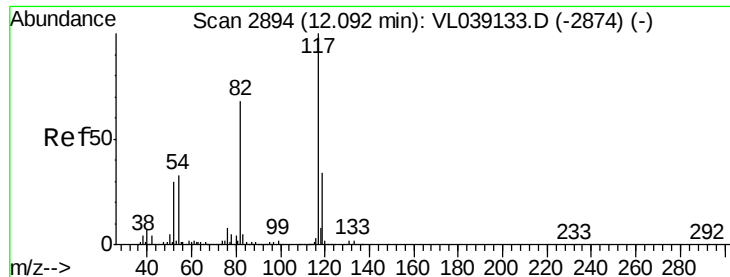
Tot Ion	57	Resp	96393
Ion Ratio	Lower	Upper	
57	100		
41	42.9	26.2	39.4#
56	38.1	24.7	37.1#



#53
 Toluene
 Concen: 0.677 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL039217.D
 Acq: 7 Jun 2022 20:15

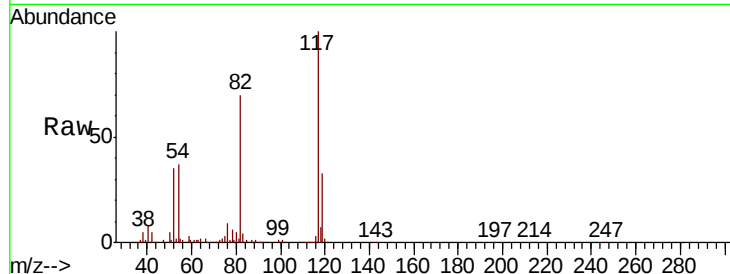
Tgt Ion	91	Resp	124939
Ion Ratio	Lower	Upper	
91	100		
92	62.0	48.1	72.1



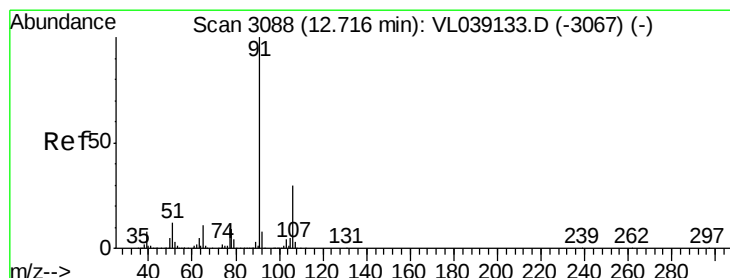
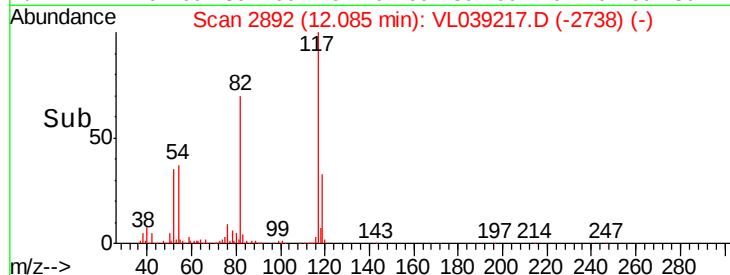
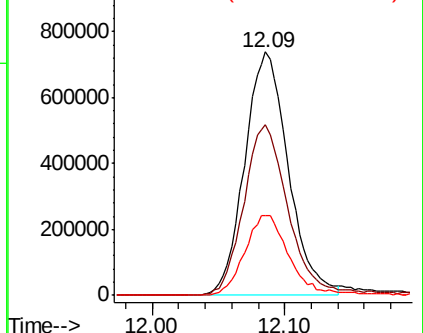


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tot Ion:117 Resp: 1688520
Ion Ratio Lower Upper
117 100
82 73.1 55.1 82.7
119 33.8 24.7 37.1

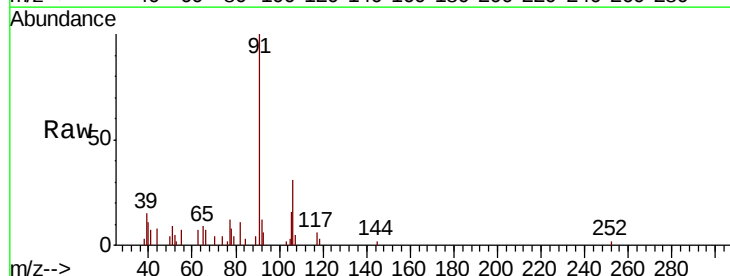


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

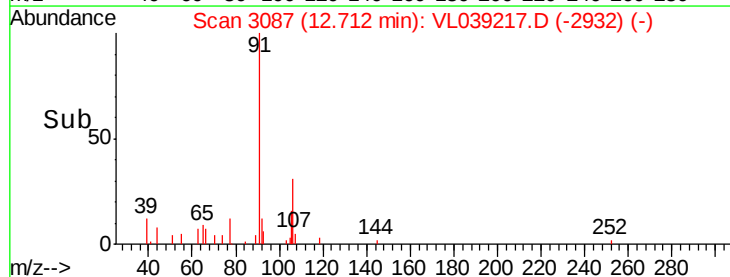
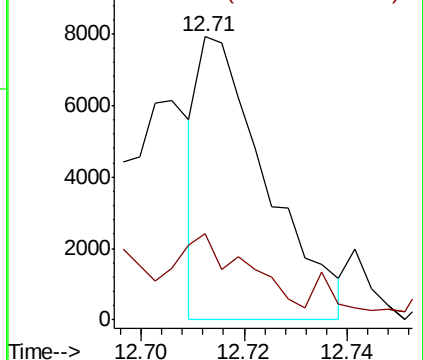


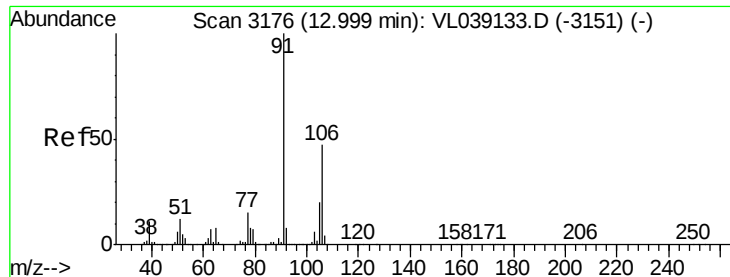
#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tgt Ion: 91 Resp: 7220
Ion Ratio Lower Upper
91 100
106 29.2 24.2 36.4



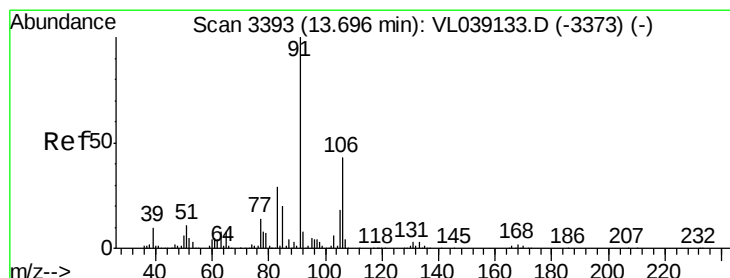
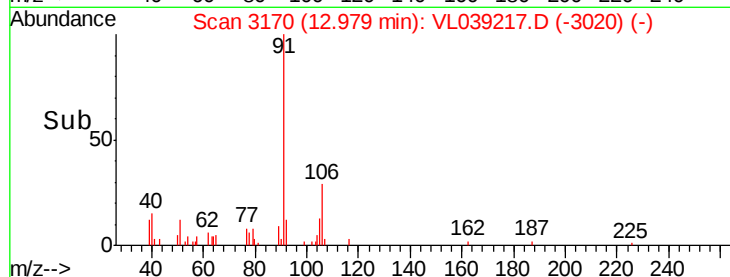
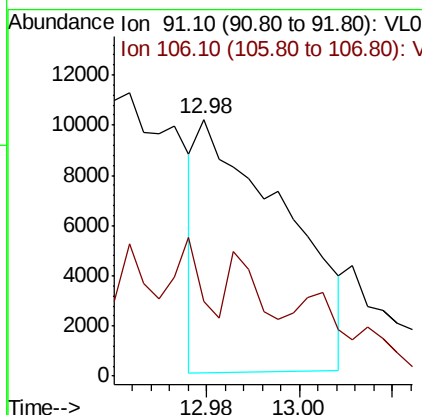
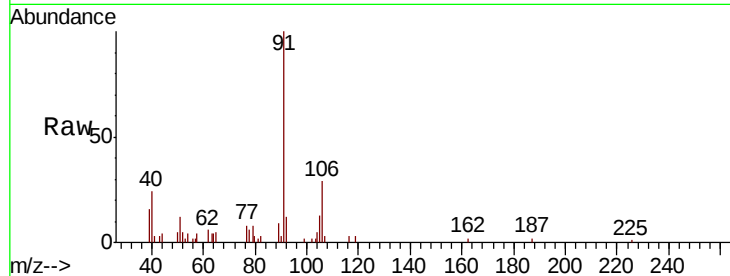
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





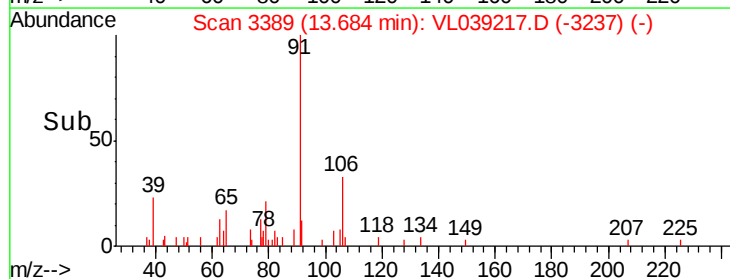
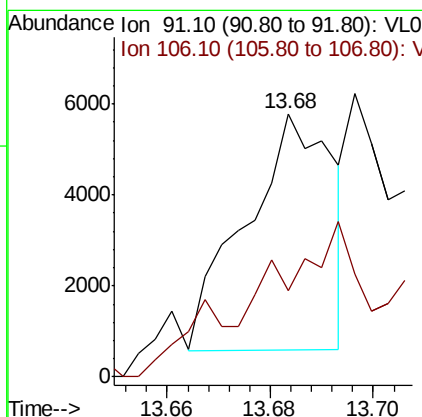
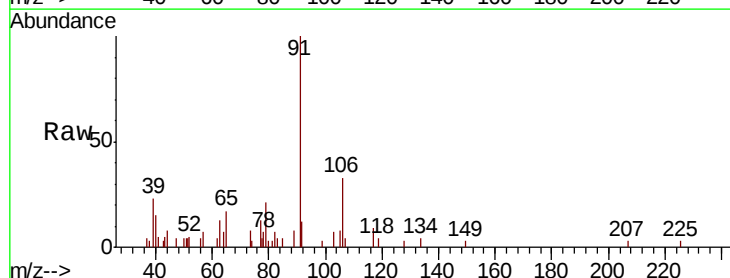
#59
m/p-Xylene
Concen: 0.064 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.02 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

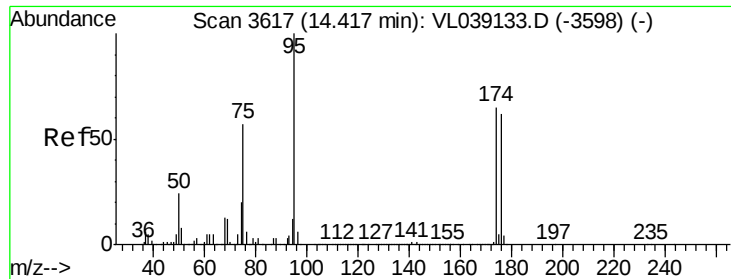
Tot Ion: 91 Resp: 13188
Ion Ratio Lower Upper
91 100
106 123.9 34.3 51.5#



#60
o-Xylene
Concen: 0.032 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL039217.D
Acq: 7 Jun 2022 20:15

Tgt Ion: 91 Resp: 6071
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#





#68

1-Bromo-4-Fluorobenzene
 Concen: 10.251 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. 0.00 min
 Lab File: VL039217.D
 Acq: 7 Jun 2022 20:15

Tot Ion: 95 Resp: 1431034
 Ion Ratio Lower Upper
 95 100
 174 62.3 53.8 80.8
 175 4.5 4.1 6.1

