

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039221.D
 Acq On : 7 Jun 2022 22:55
 Operator : SY/AP
 Sample : N3214-14 0.1 LOQ
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:02:20 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	674949	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1566754	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1361352	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1159592	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	25383	0.214	ppbv 94
3) Chlorodifluoromethane	2.99	51	15950	0.186	ppbv 92
4) Chloromethane	3.14	50	7807	0.177	ppbv 90
5) Vinyl Chloride	3.26	62	4815	0.117	ppbv 97
6) Bromomethane	3.48	94	2213	0.109	ppbv # 50
7) Chloroethane	3.57	64	539	0.038	ppbv # 84
8) Dichlorotetrafluoroethane	3.20	85	19764	0.182	ppbv 97
9) Propene	3.01	41	3668	0.098	ppbv # 15
10) Heptane	8.12	43	2926	0.033	ppbv # 26
11) Trichlorofluoromethane	3.95	101	21879	0.204	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	14308	0.202	ppbv 98
13) Ethanol	3.61	45	695	0.340	ppbv # 100
14) Bromoethene	3.75	108	4521	0.142	ppbv # 47
15) Acetone	3.87	43	9326	0.133	ppbv # 47
16) 1,3-Butadiene	3.33	39	6509	0.172	ppbv 87
17) tert-Butyl alcohol	4.31	59	3687	0.068	ppbv # 19
18) 1,1-Dichloroethene	4.29	96	5158	0.162	ppbv # 51
20) Methylene Chloride	4.35	84	4649	0.157	ppbv # 68
21) Allvl Chloride	4.42	41	1445	0.030	ppbv # 1
22) trans-1,2-Dichloroethene	4.89	96	4178	0.136	ppbv # 81
23) Vinyl Acetate	5.07	43	1933	0.033	ppbv # 86
24) 1,1-Dichloroethane	5.02	63	9503	0.119	ppbv # 86
25) Ethyl Acetate	5.69	43	18272	0.115	ppbv # 89
26) Hexane	5.69	57	7022	0.101	ppbv # 36
27) Carbon Disulfide	4.55	76	4959	0.069	ppbv # 38
28) Methyl tert-Butyl Ether	5.05	73	5519	0.072	ppbv # 16
29) Chloroform	5.75	83	18239	0.156	ppbv 99
30) Cyclohexane	7.13	84	2597	0.044	ppbv # 1
31) cis-1,2-Dichloroethene	5.55	61	7095	0.100	ppbv # 74
32) 1,1,1-Trichloroethane	6.51	97	3970	0.035	ppbv # 1
34) 2-Butanone	5.26	43	4240	0.050	ppbv # 53
35) Carbon Tetrachloride	7.01	117	6380	0.056	ppbv 98
36) Benzene	6.89	78	12193	0.096	ppbv 96
37) 1,2-Dichloroethane	6.32	62	5408	0.065	ppbv # 89
38) Trichloroethene	7.83	130	4123	0.071	ppbv # 32
39) 1,2-Dichloropropane	7.17	63	460419	9.100	ppbv # 24
43) Methyl Methacrylate	8.02	69	3110	0.063	ppbv # 1
46) cis-1,3-Dichloropropene	8.70	75	2731	0.040	ppbv 87
47) 1,1,2-Trichloroethane	9.47	97	2212	0.042	ppbv 96
48) Dibromochloromethane	10.30	129	6202	0.066	ppbv # 43
52) Tetrachloroethene	11.21	164	2176	0.044	ppbv 86

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

Response via : Initial Calibration

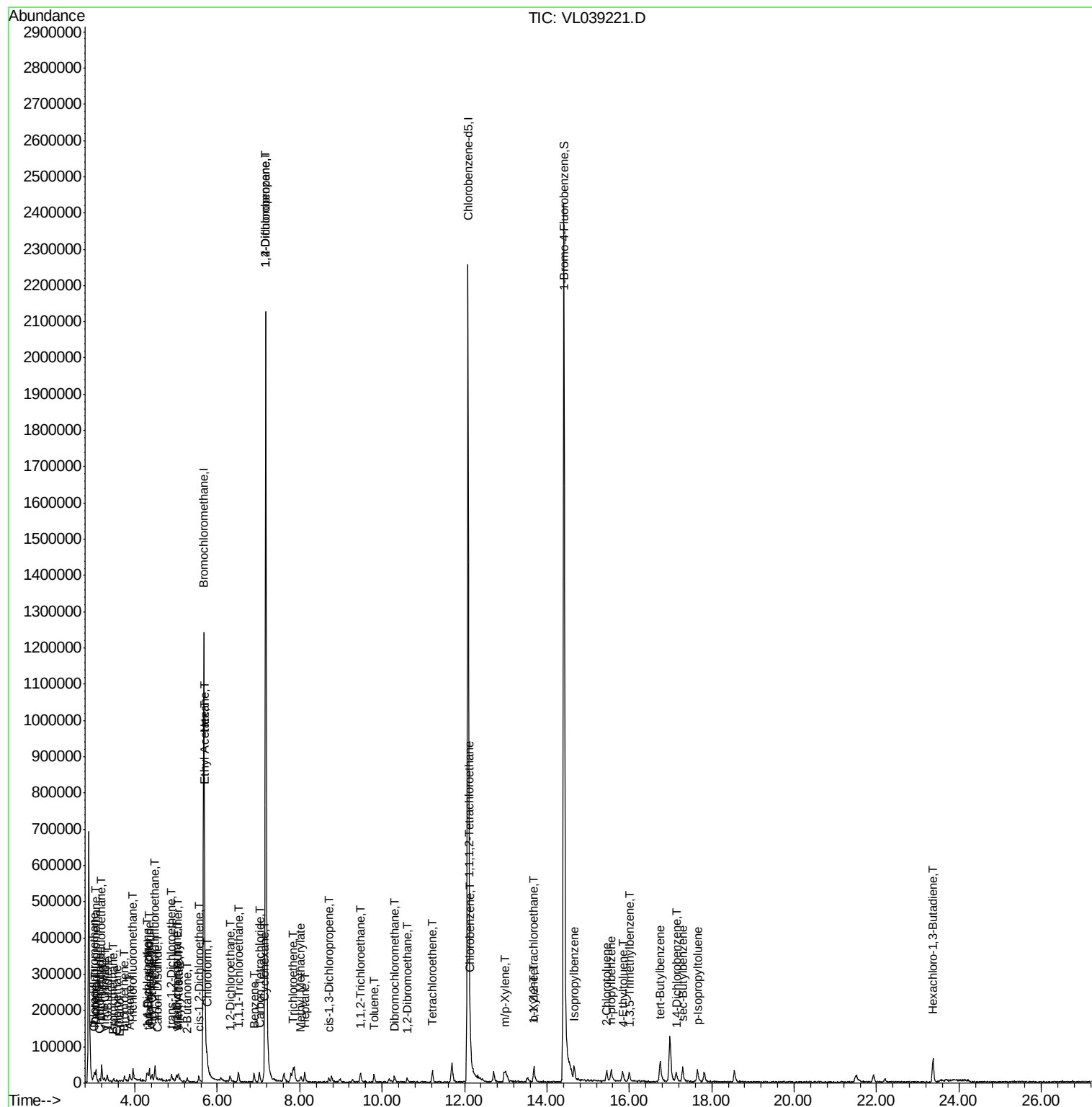
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

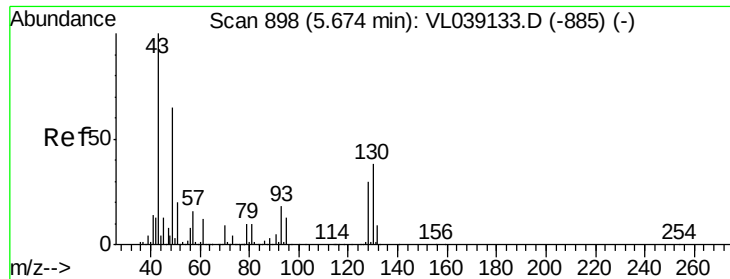
53) Toluene	9.80	91	8925	0.061	ppbv #	41
54) 1,2-Dibromoethane	10.60	107	3267	0.046	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.12	131	4705	0.073	ppbv #	11
57) Chlorobenzene	12.14	112	3330	0.033	ppbv #	77
59) m/p-Xylene	12.99	91	8121	0.049	ppbv #	1
60) o-Xylene	13.69	91	7140	0.046	ppbv #	1
62) Isopropylbenzene	14.67	105	7795	0.034	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.67	83	2817	0.032	ppbv #	24
64) n-propylbenzene	15.55	120	2310	0.041	ppbv #	1
65) tert-Butylbenzene	16.73	119	6954	0.033	ppbv #	17
67) sec-Butylbenzene	17.29	105	15628	0.054	ppbv #	51
69) p-Isopropyltoluene	17.65	119	16085	0.066	ppbv #	63
71) 2-Chlorotoluene	15.45	91	7644	0.043	ppbv #	4
72) 4-Ethyltoluene	15.83	105	6525	0.036	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.99	105	8842	0.054	ppbv	91
76) 1,4-Dichlorobenzene	17.13	146	4857	0.047	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	2908	0.030	ppbv #	18

(#) = 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: VL039221.D

Acq: 7 Jun 2022 22:55

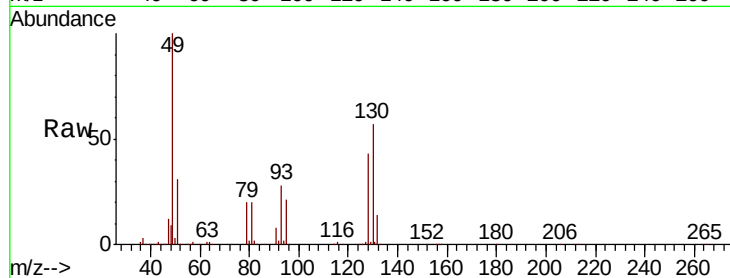
Tot Ion: 49 Resp: 674949

Ion Ratio Lower Upper

49 100

128 47.4 24.7 74.1

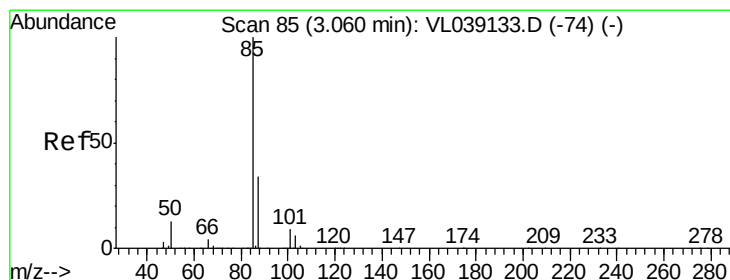
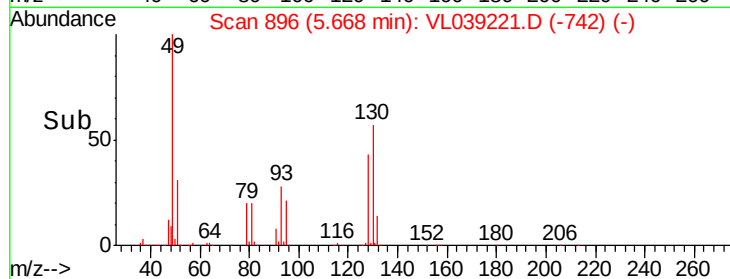
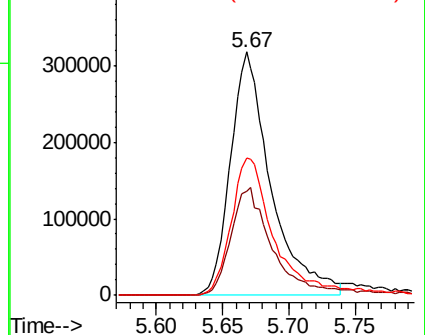
130 61.2 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.214 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL039221.D

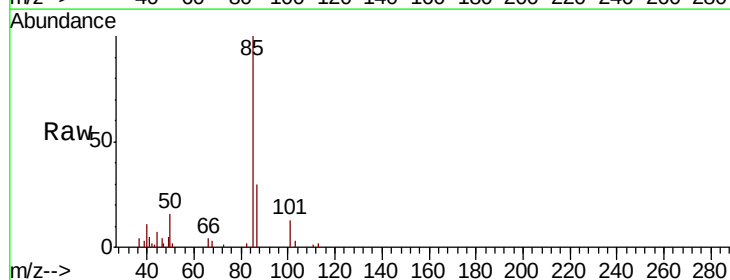
Acq: 7 Jun 2022 22:55

Tgt Ion: 85 Resp: 25383

Ion Ratio Lower Upper

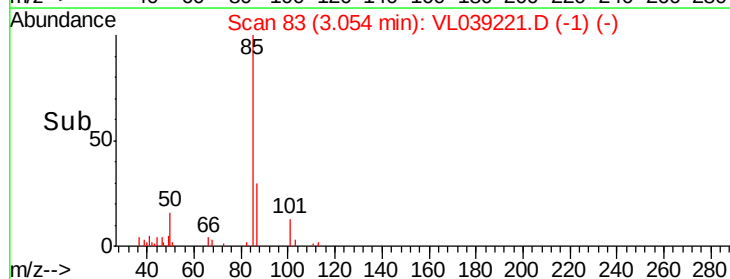
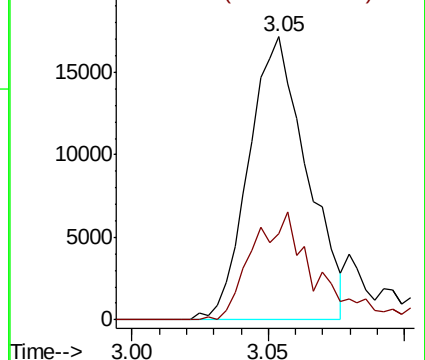
85 100

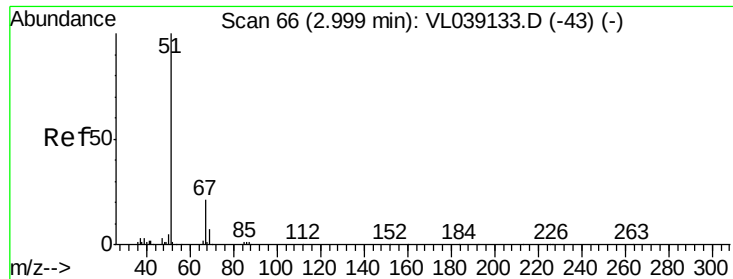
87 30.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.186 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL039221.D

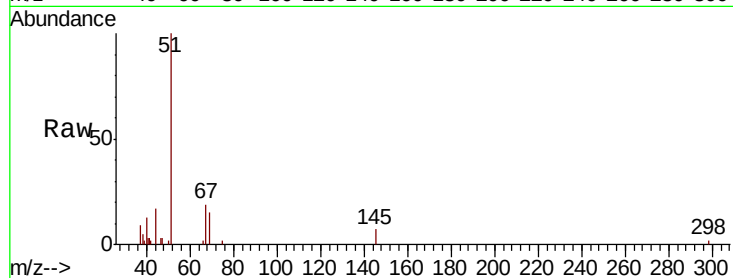
Acq: 7 Jun 2022 22:55

Tot Ion: 51 Resp: 15950

Ion Ratio Lower Upper

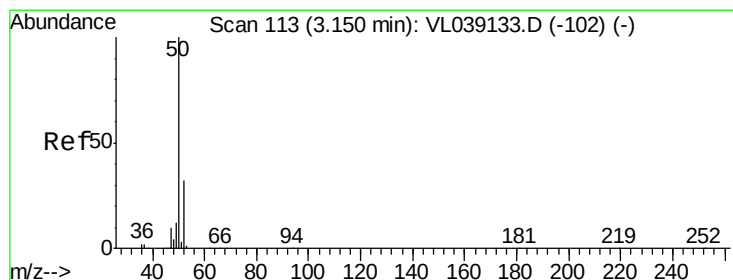
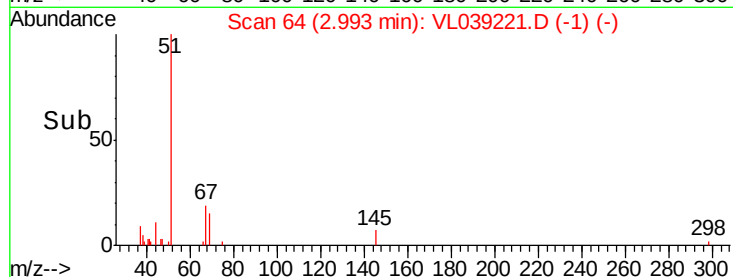
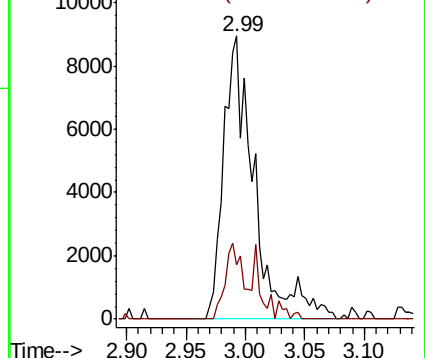
51 100

67 23.8 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: 0.177 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039221.D

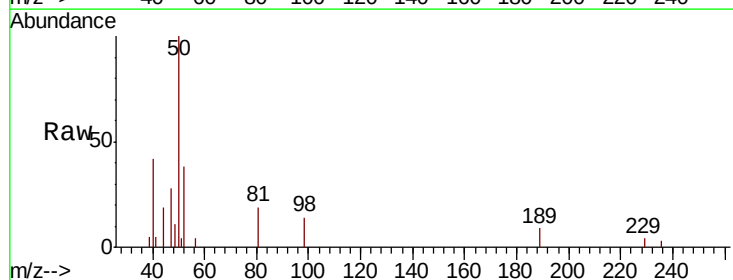
Acq: 7 Jun 2022 22:55

Tgt Ion: 50 Resp: 7807

Ion Ratio Lower Upper

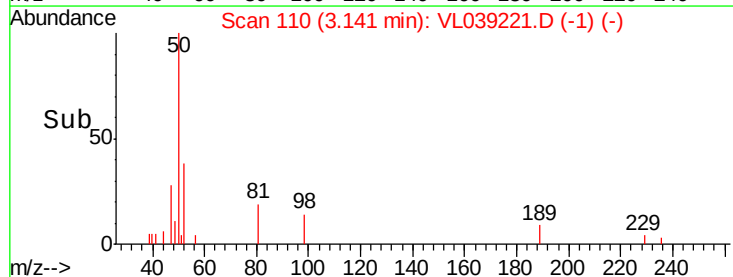
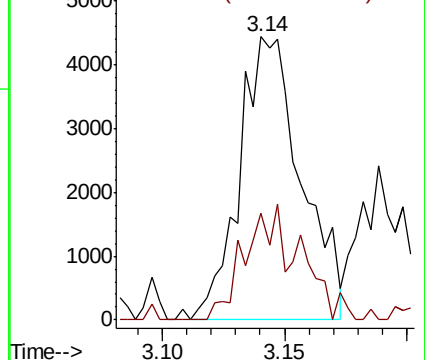
50 100

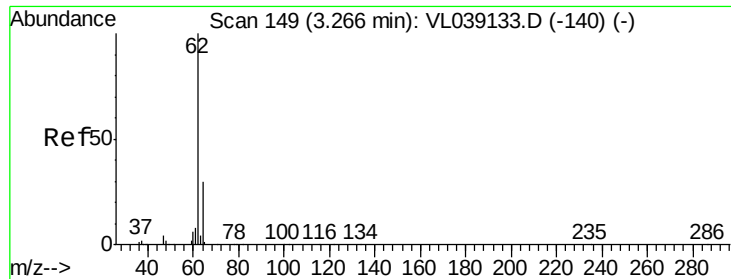
52 37.8 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.117 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.00 min

Lab File: VL039221.D

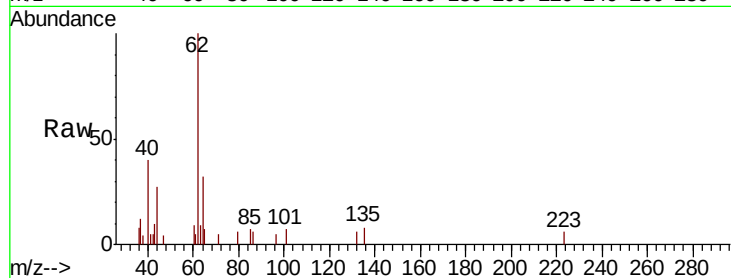
Acq: 7 Jun 2022 22:55

Tot Ion: 62 Resp: 4815

Ion Ratio Lower Upper

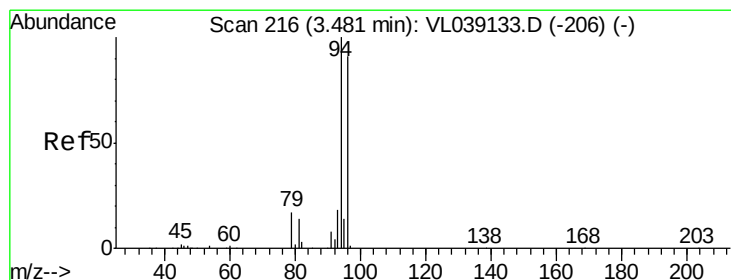
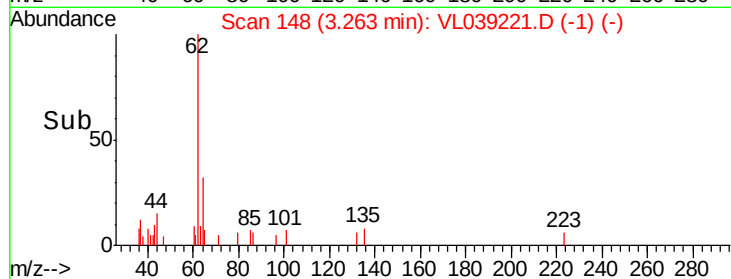
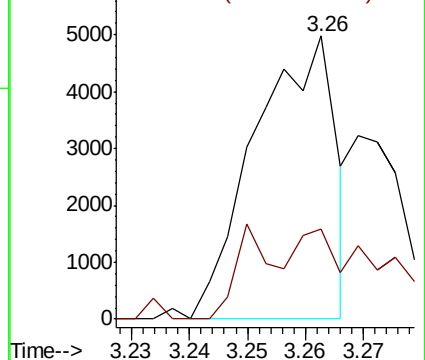
62 100

64 31.8 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.109 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL039221.D

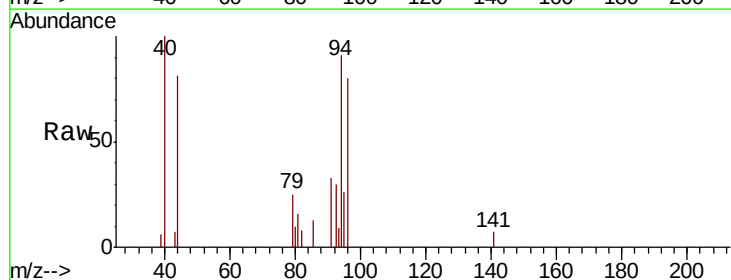
Acq: 7 Jun 2022 22:55

Tgt Ion: 94 Resp: 2213

Ion Ratio Lower Upper

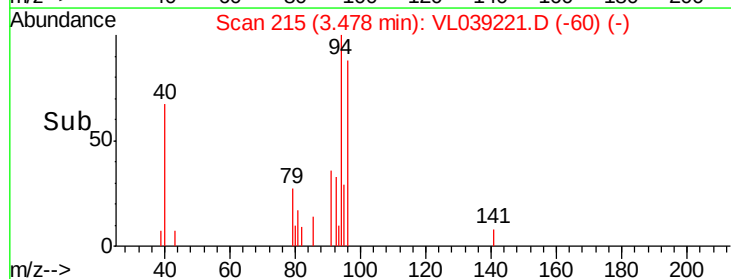
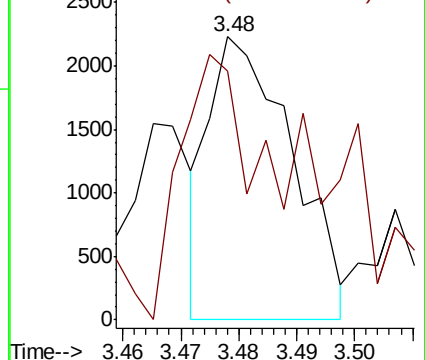
94 100

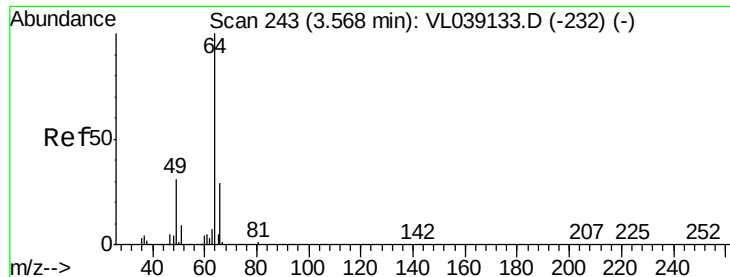
96 43.5 73.0 109.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.038 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL039221.D

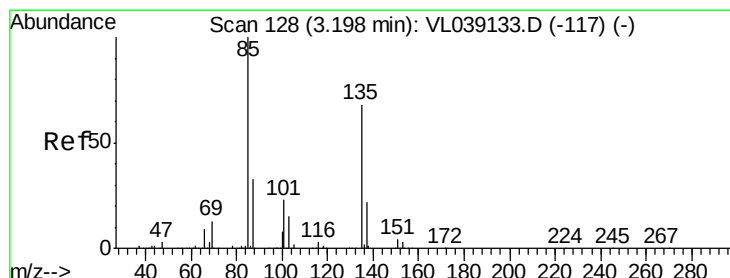
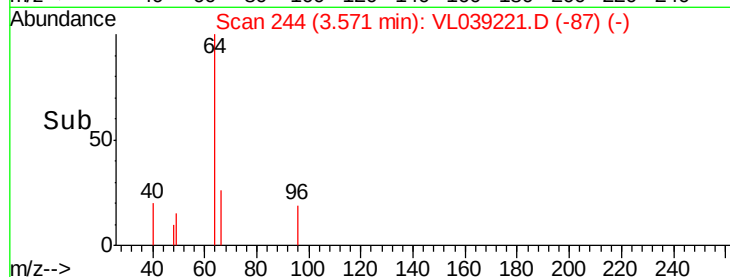
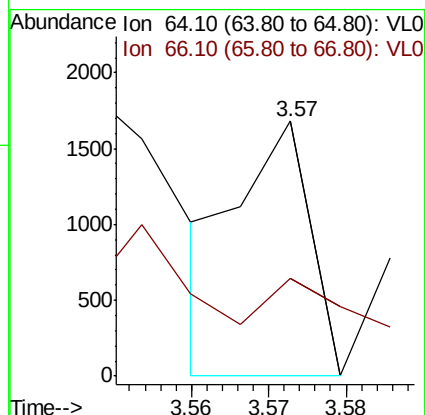
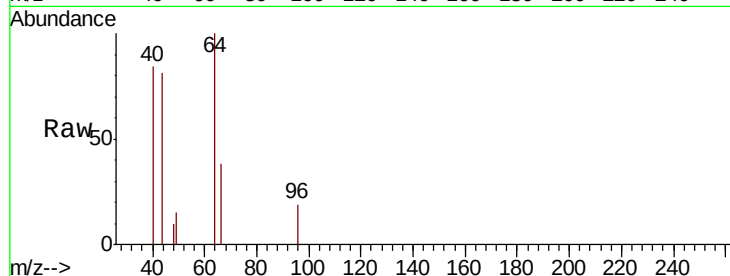
Acq: 7 Jun 2022 22:55

Tot Ion: 64 Resp: 539

Ion Ratio Lower Upper

64 100

66 38.2 23.6 35.4#



#8

Dichlorotetrafluoroethane

Concen: 0.182 ppbv

RT: 3.20 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL039221.D

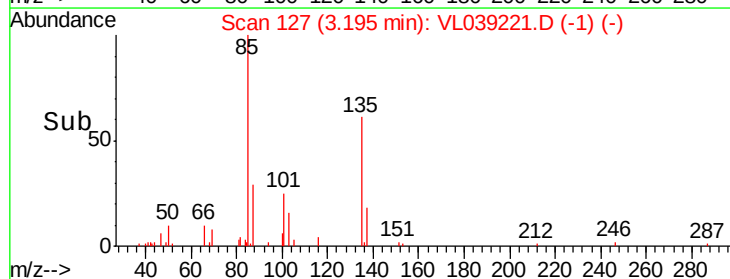
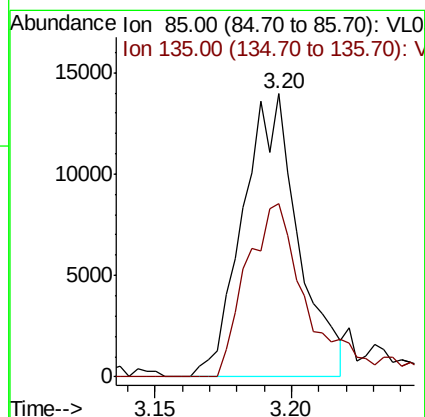
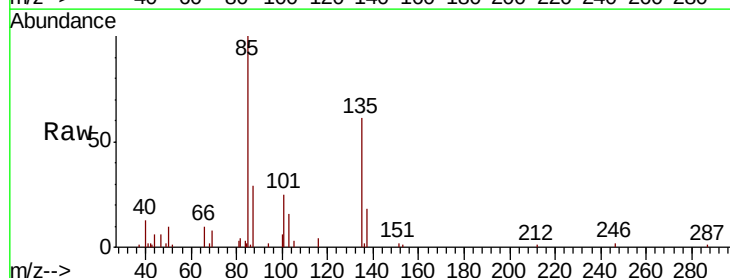
Acq: 7 Jun 2022 22:55

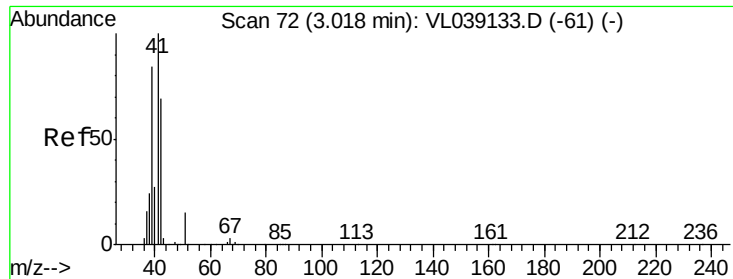
Tgt Ion: 85 Resp: 19764

Ion Ratio Lower Upper

85 100

135 71.4 55.0 82.4





#9

Propene

Concen: 0.098 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039221.D

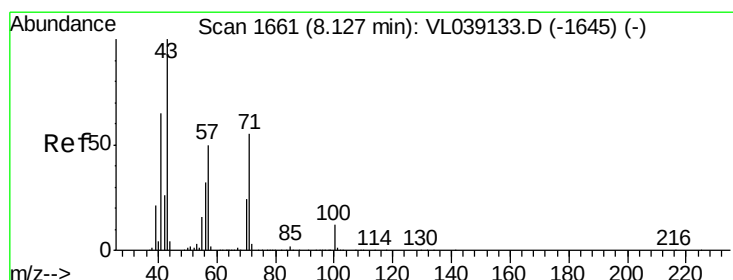
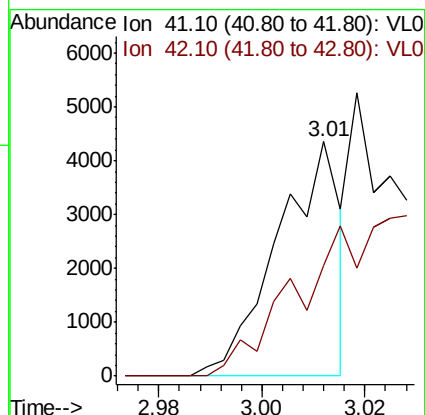
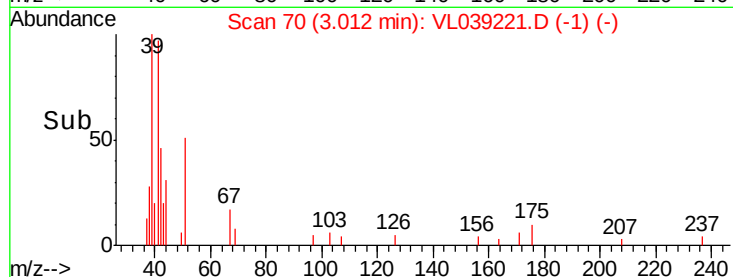
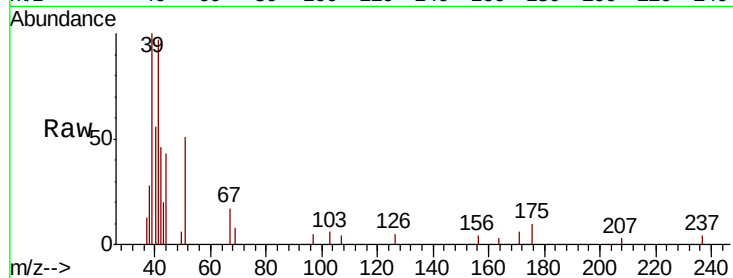
Acq: 7 Jun 2022 22:55

Tot Ion: 41 Resp: 3668

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#10

Heptane

Concen: 0.033 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL039221.D

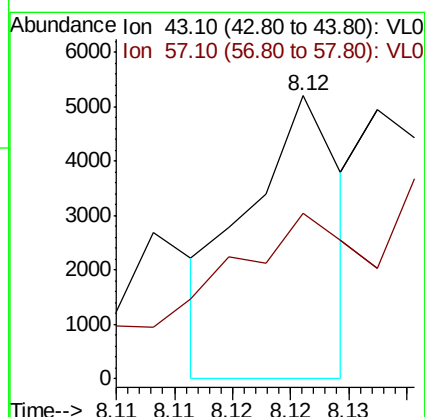
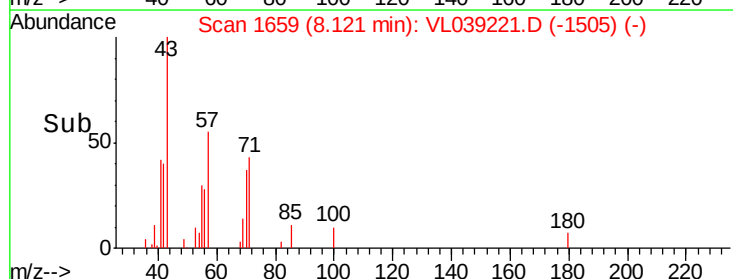
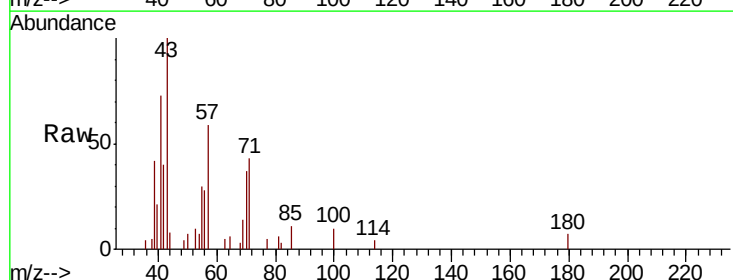
Acq: 7 Jun 2022 22:55

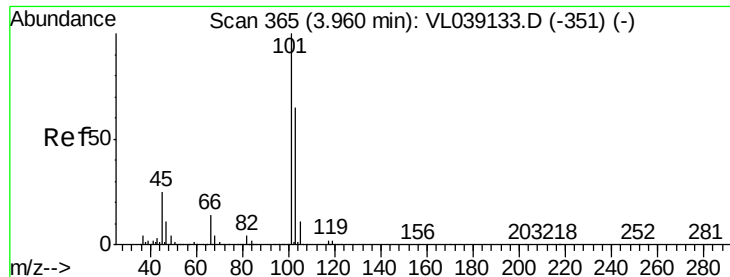
Tgt Ion: 43 Resp: 2926

Ion Ratio Lower Upper

43 100

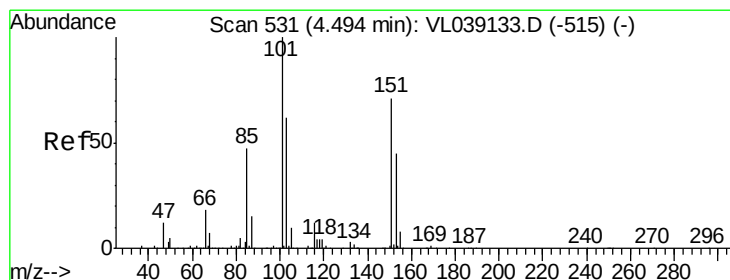
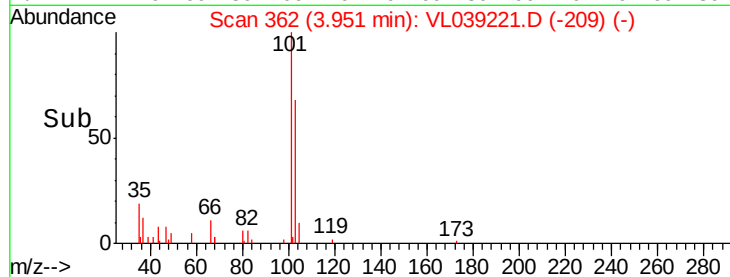
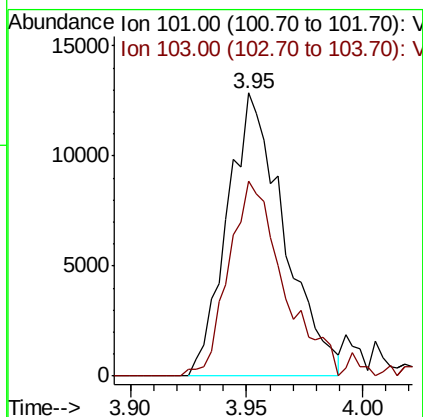
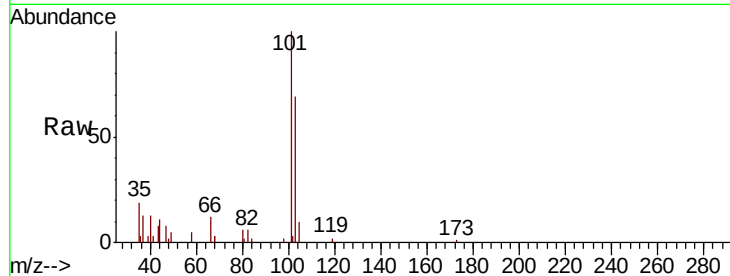
57 0.0 41.4 62.2#





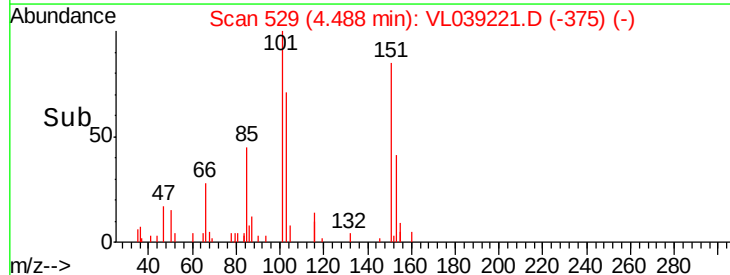
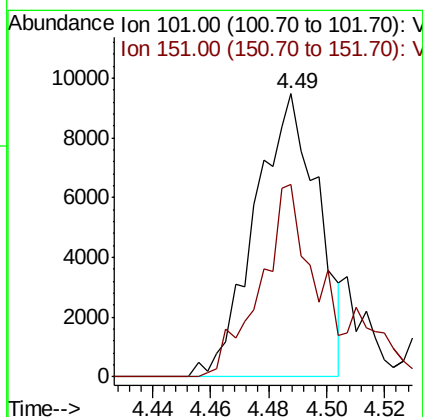
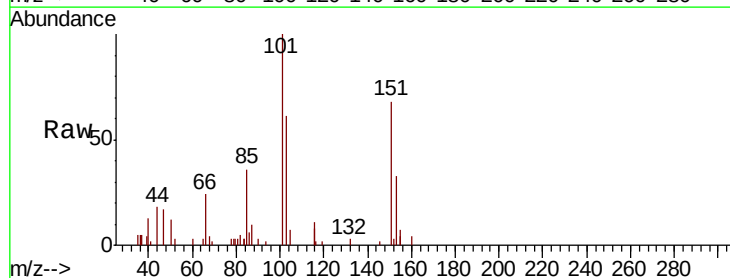
#11
 Trichlorofluoromethane
 Concen: 0.204 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

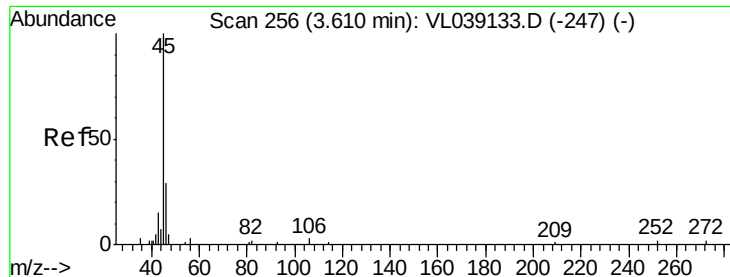
Tot Ion:101 Resp: 21879
 Ion Ratio Lower Upper
 101 100
 103 68.8 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.202 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tgt Ion:101 Resp: 14308
 Ion Ratio Lower Upper
 101 100
 151 72.7 59.4 89.0





#13

Ethanol

Concen: 0.340 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL039221.D

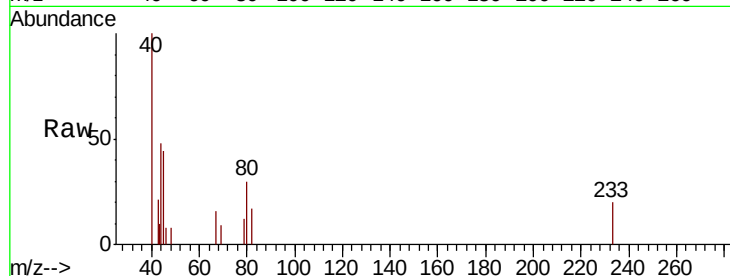
Acq: 7 Jun 2022 22:55

Tot Ion: 45 Resp: 695

Ion Ratio Lower Upper

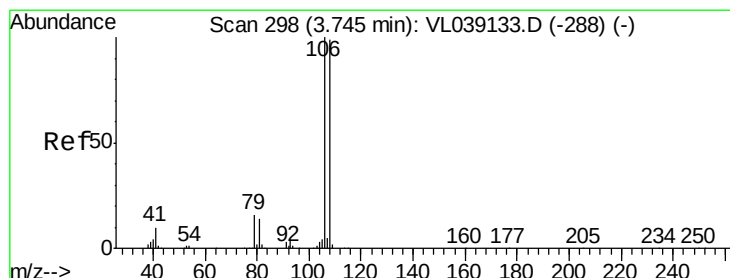
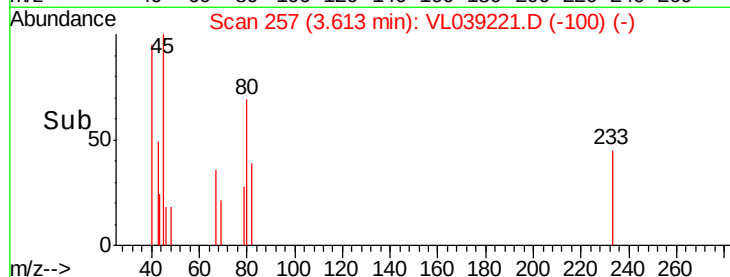
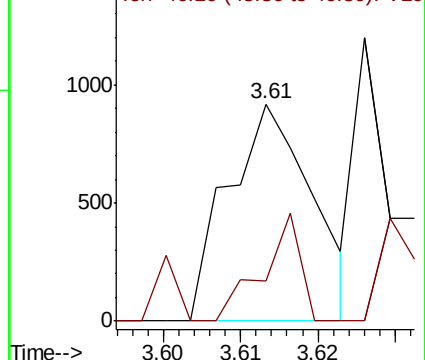
45 100

46 62.4 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.142 ppbv

RT: 3.75 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

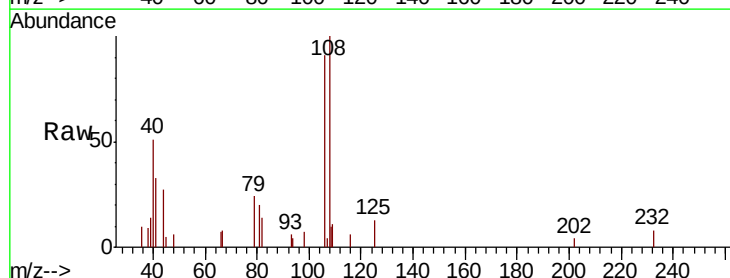
Tgt Ion: 108 Resp: 4521

Ion Ratio Lower Upper

108 100

106 169.6 88.4 132.6#

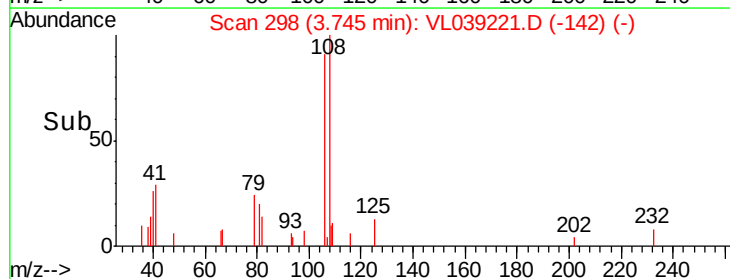
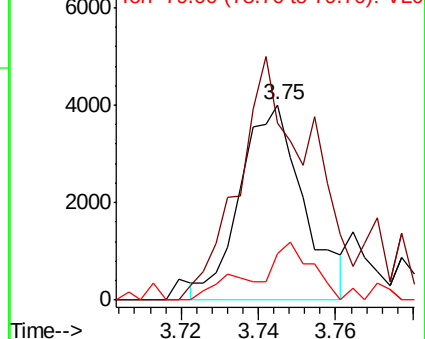
79 32.3 13.4 20.2#

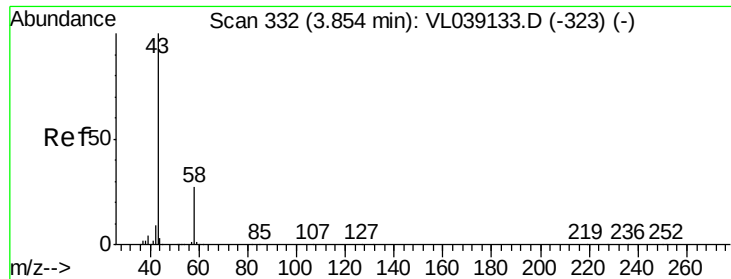


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.133 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL039221.D

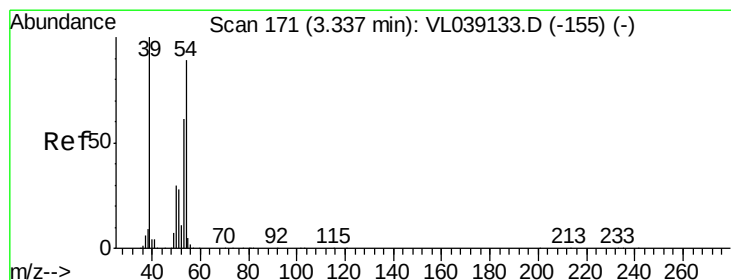
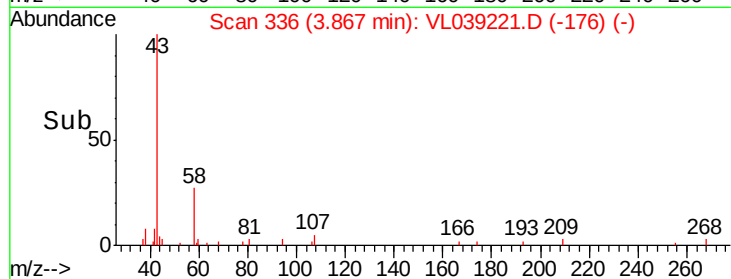
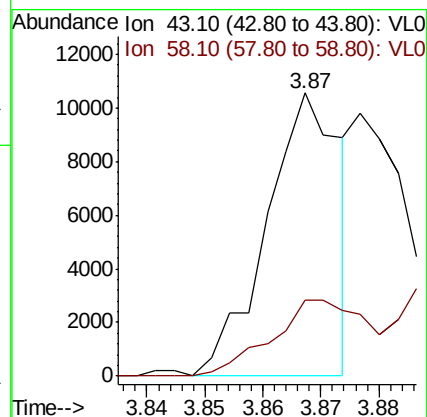
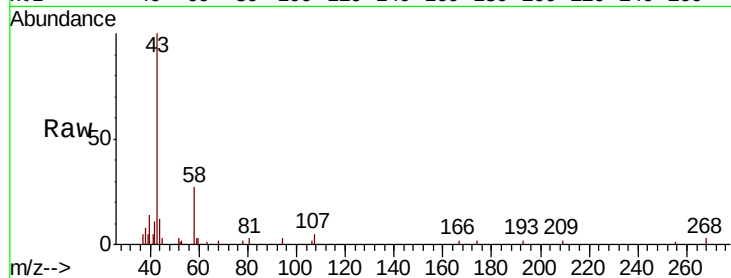
Acq: 7 Jun 2022 22:55

Tot Ion: 43 Resp: 9326

Ion Ratio Lower Upper

43 100

58 0.0 22.5 33.7#



#16

1,3-Butadiene

Concen: 0.172 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.01 min

Lab File: VL039221.D

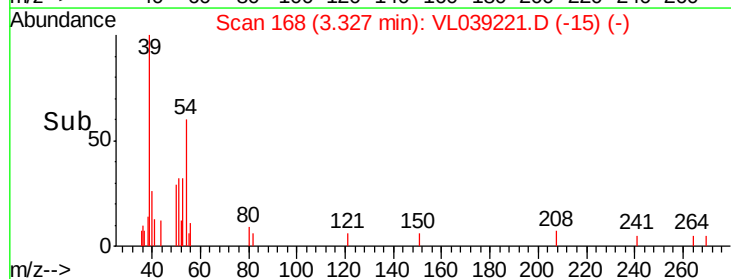
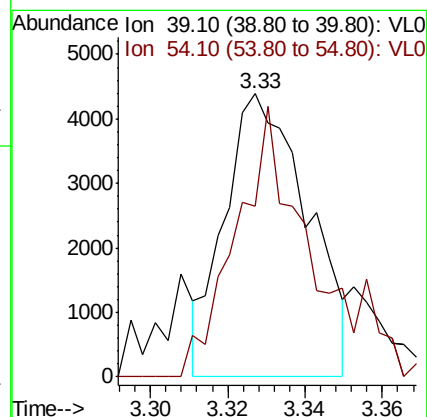
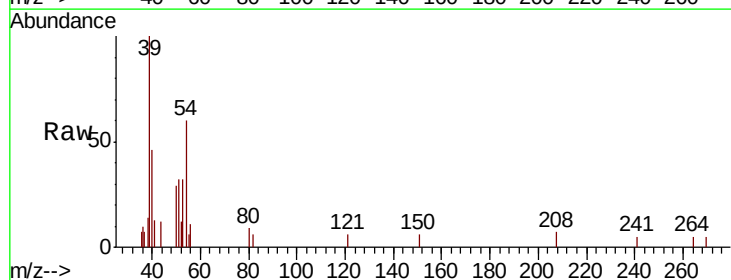
Acq: 7 Jun 2022 22:55

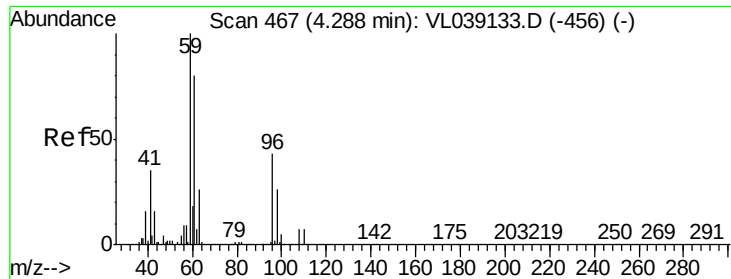
Tgt Ion: 39 Resp: 6509

Ion Ratio Lower Upper

39 100

54 94.0 65.8 98.6





#17

tert-Butyl alcohol

Concen: 0.068 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL039221.D

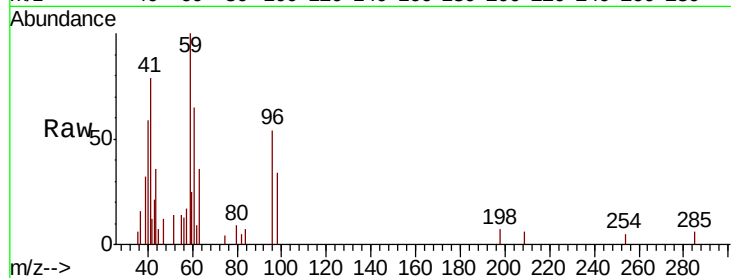
Acq: 7 Jun 2022 22:55

Tot Ion: 59 Resp: 3687

Ion Ratio Lower Upper

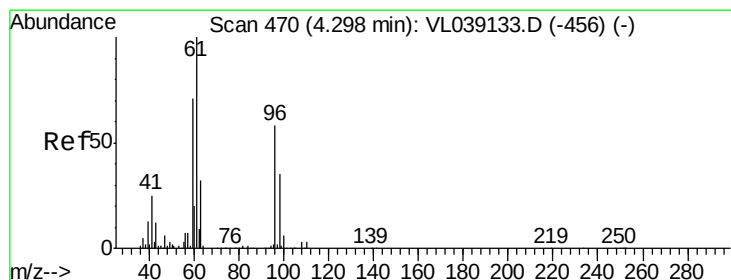
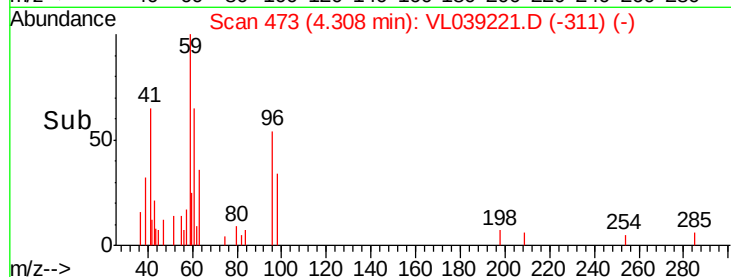
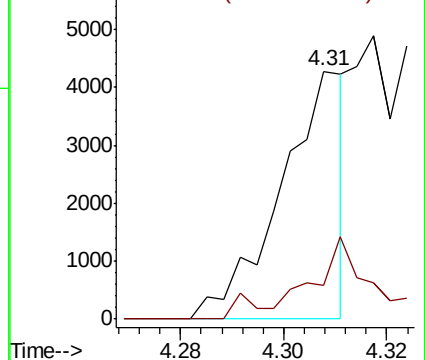
59 100

57 42.6 9.1 13.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.162 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

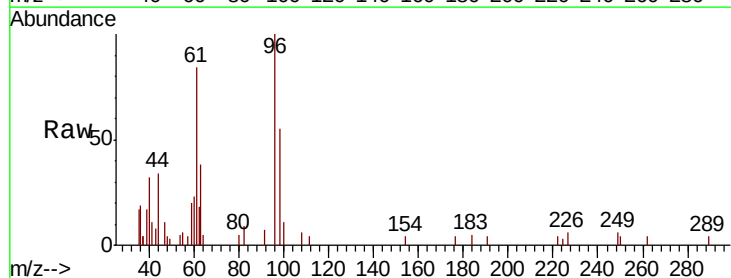
Tgt Ion: 96 Resp: 5158

Ion Ratio Lower Upper

96 100

61 84.1 138.4 207.6#

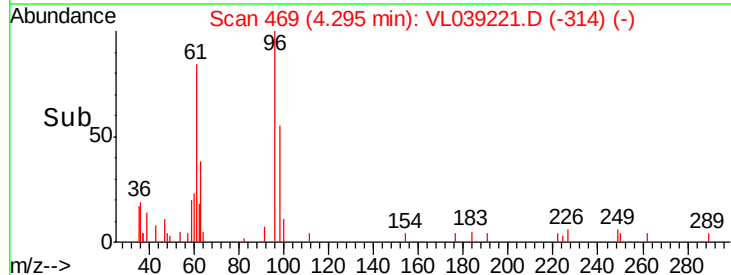
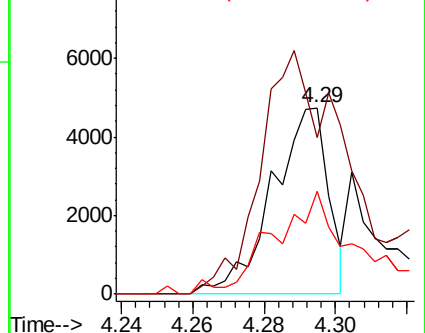
98 54.8 47.8 71.8

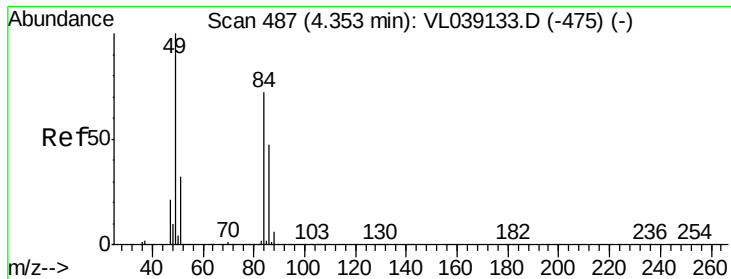


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

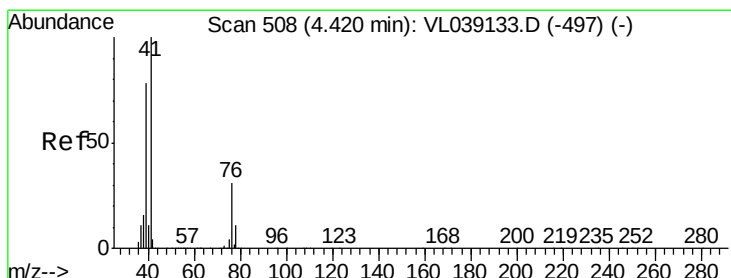
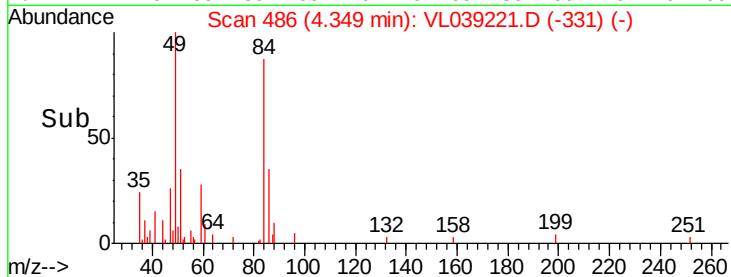
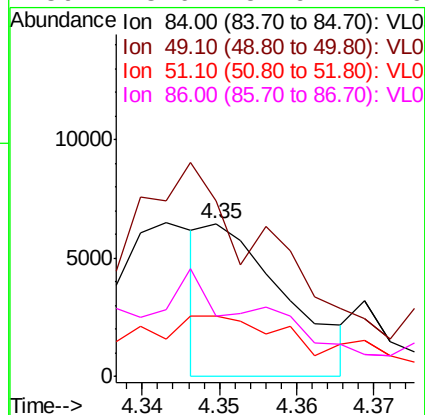
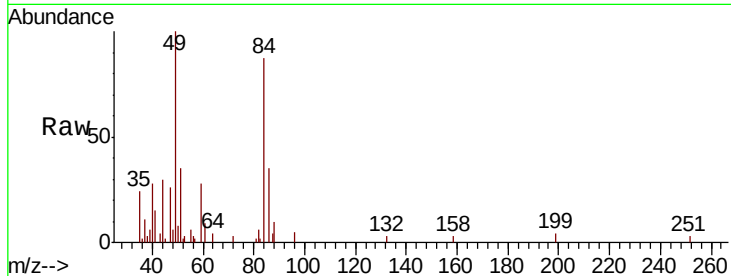
Ion 98.00 (97.70 to 98.70): VL0





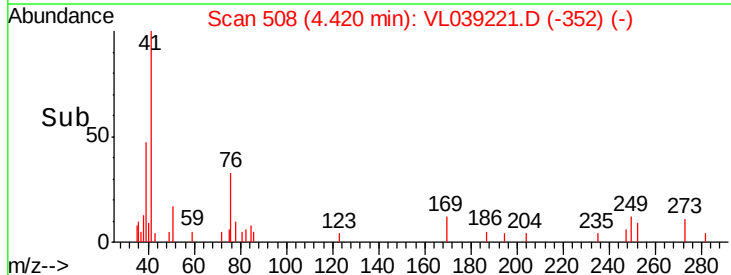
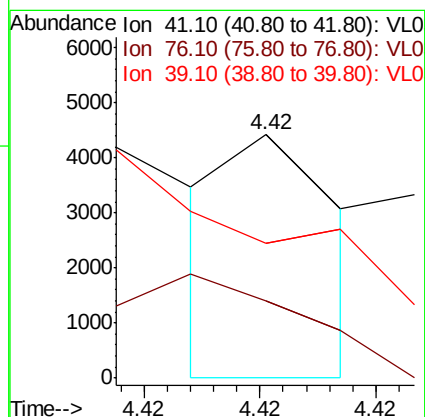
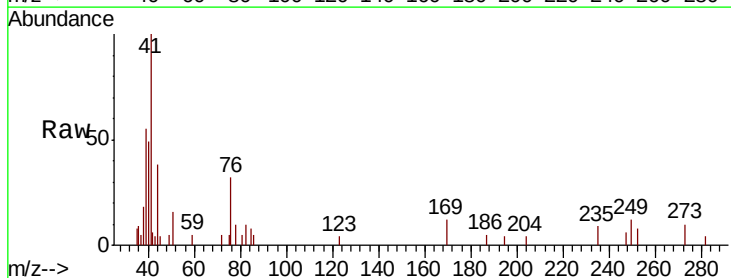
#20
Methvlene Chloride
Concen: 0.157 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.00 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

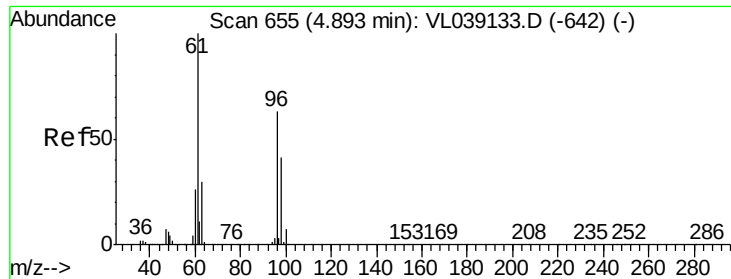
Tot Ion:	84	Resp:	4649
Ion	Ratio	Lower	Upper
84	100		
49	105.1	111.1	166.7#
51	28.4	35.3	52.9#
86	28.6	51.9	77.9#



#21
Allyl Chloride
Concen: 0.030 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.00 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tgt Ion:	41	Resp:	1445
Ion	Ratio	Lower	Upper
41	100		
76	179.8	24.2	36.2#
39	659.9	62.2	93.2#





#22

trans-1,2-Dichloroethene

Concen: 0.136 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

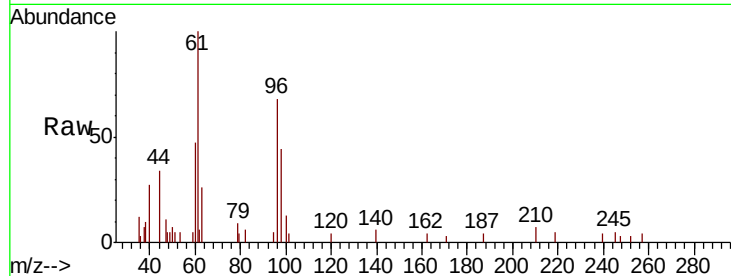
Tot Ion: 96 Resp: 4178

Ion Ratio Lower Upper

96 100

61 134.4 126.6 190.0

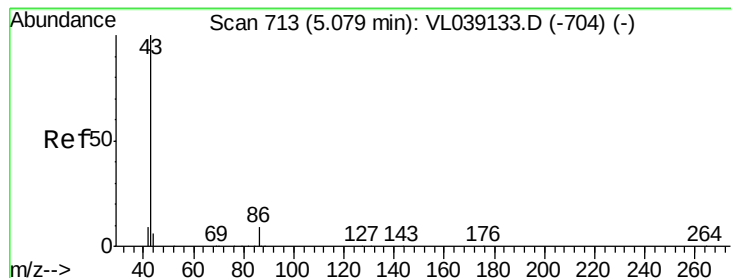
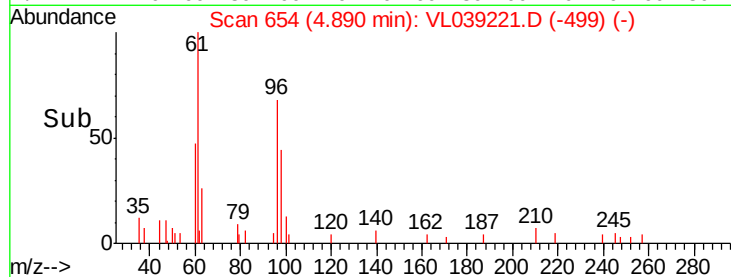
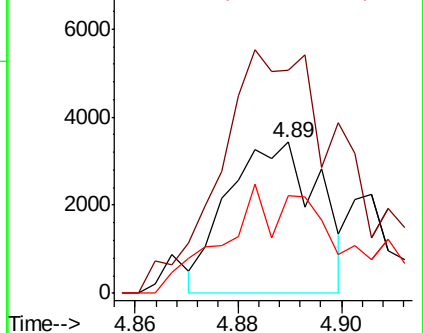
98 48.7 52.5 78.7#



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tgt Ion: 43 Resp: 1933

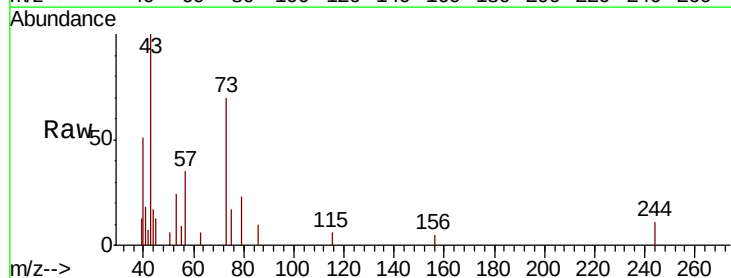
Ion Ratio Lower Upper

43 100

86 0.0 6.0 9.0#

42 12.7 8.2 12.4#

44 0.0 4.3 6.5#

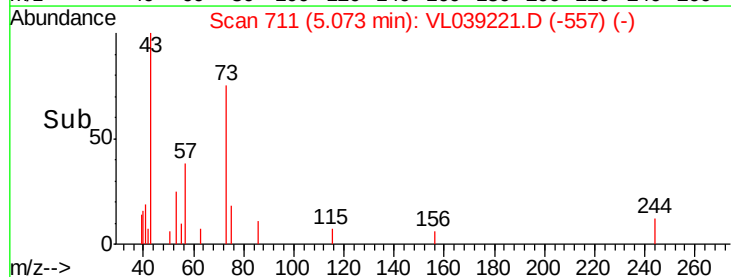
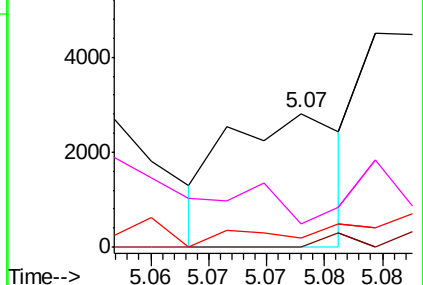


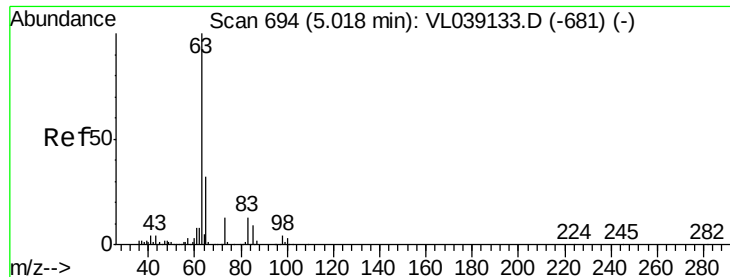
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

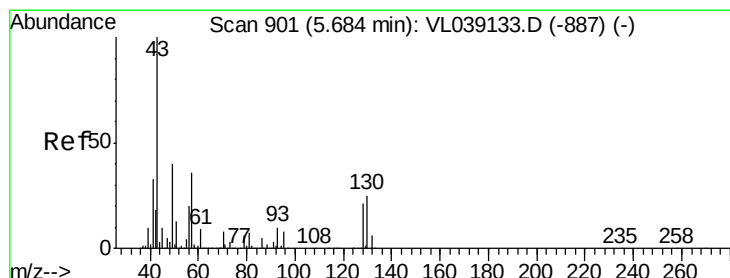
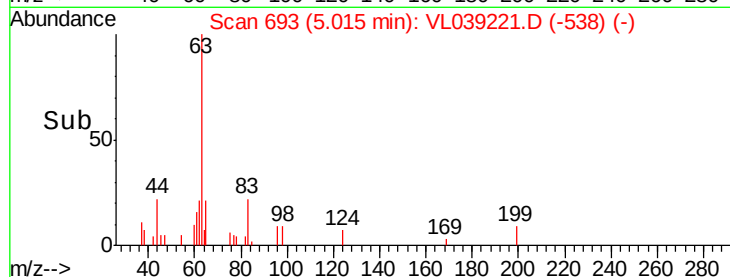
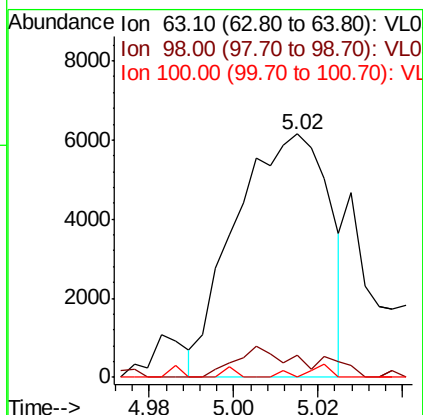
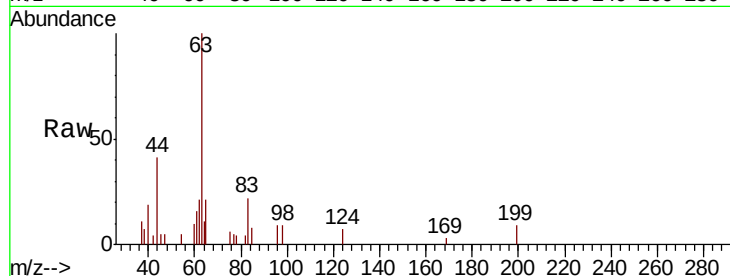
Ion 44.10 (43.80 to 44.80): VL0





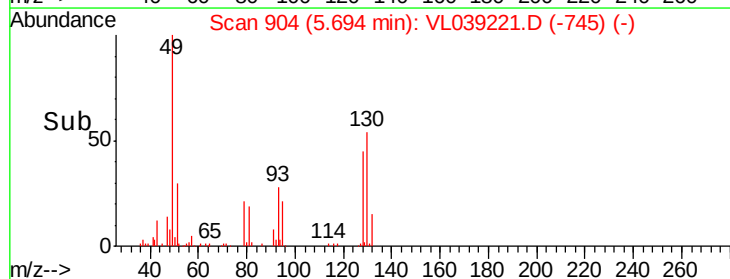
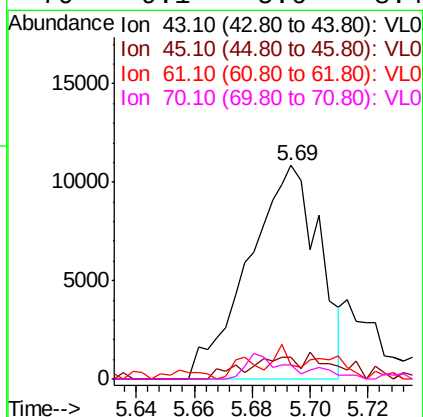
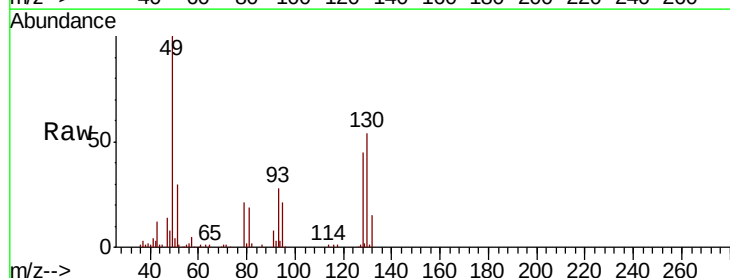
#24
1,1-Dichloroethane
Concen: 0.119 ppbv
RT: 5.02 min Scan# 693
Delta R.T. -0.00 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

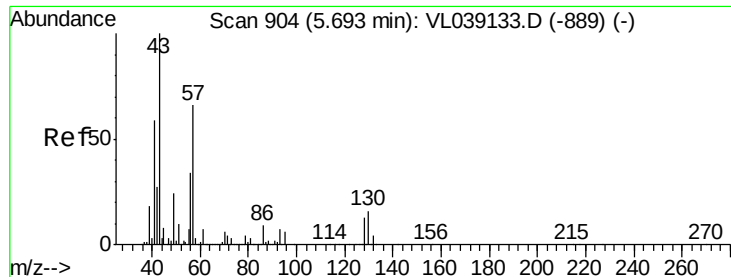
Tot Ion	Ratio	Lower	Upper
63	100		
98	10.1	2.1	6.2#
100	0.0	1.5	4.5#



#25
Ethyl Acetate
Concen: 0.115 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tgt Ion	Ratio	Lower	Upper
43	100		
45	14.0	8.2	12.2#
61	15.9	8.4	12.6#
70	9.1	5.6	8.4#





#26

Hexane

Concen: 0.101 ppbv

RT: 5.69 min Scan# 903

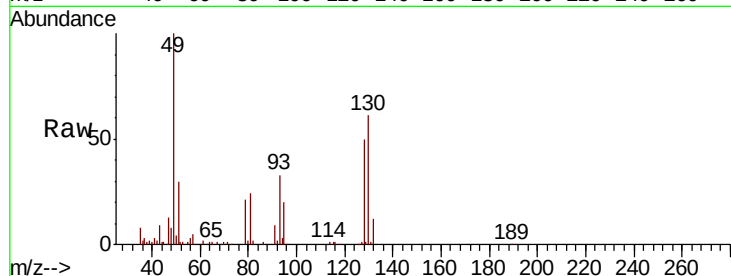
Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion: 57 Resp: 7022

Ion	Ratio	Lower	Upper
57	100		
41	151.0	72.4	108.6#
43	340.5	187.0	280.6#
56	95.2	41.8	62.6#



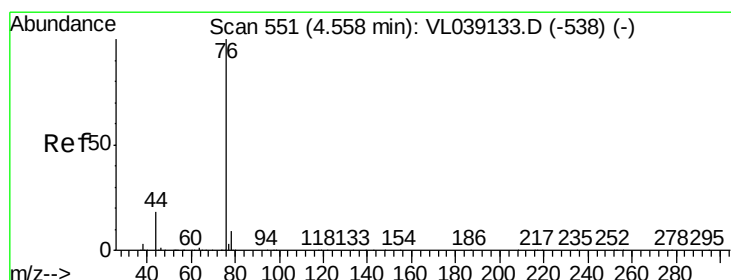
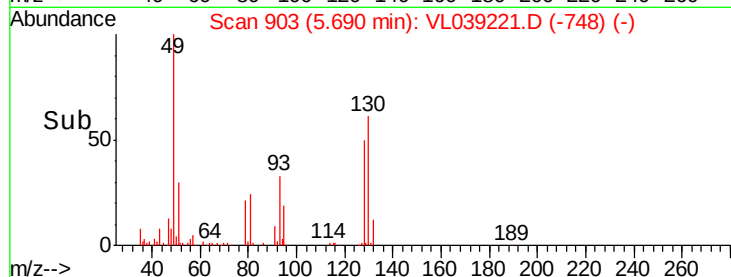
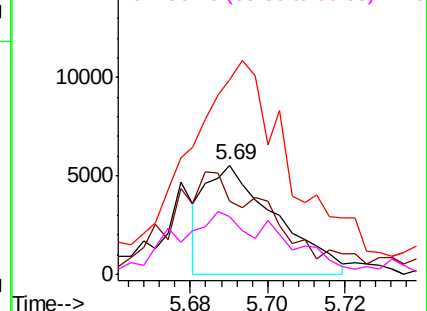
Abundance

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



#27

Carbon Disulfide

Concen: 0.069 ppbv

RT: 4.55 min Scan# 548

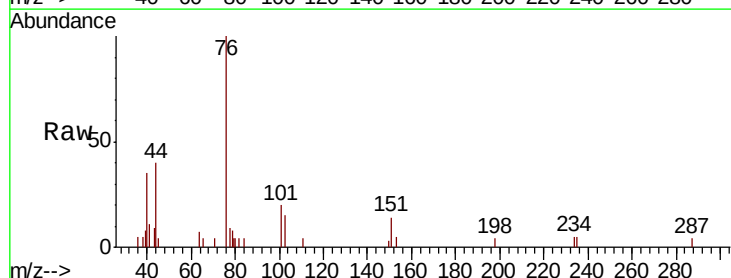
Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tgt Ion: 76 Resp: 4959

Ion	Ratio	Lower	Upper
76	100		
44	45.8	14.4	21.6#
78	31.8	7.7	11.5#

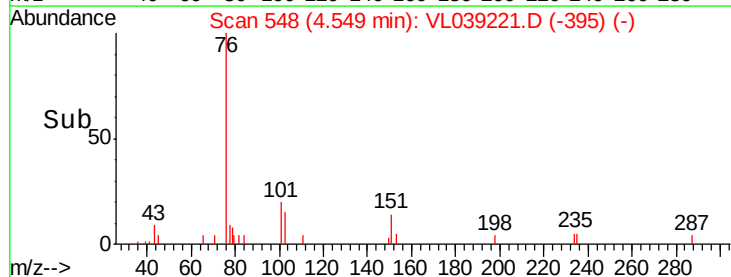
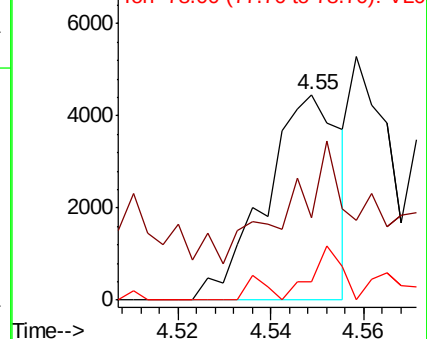


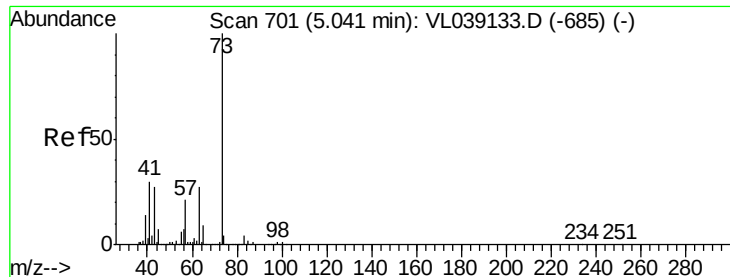
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

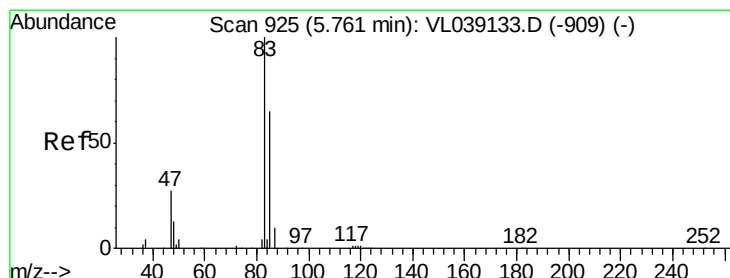
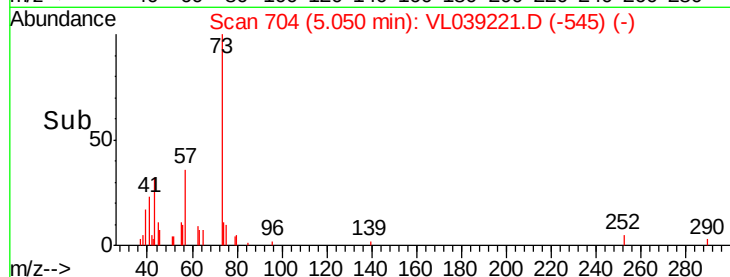
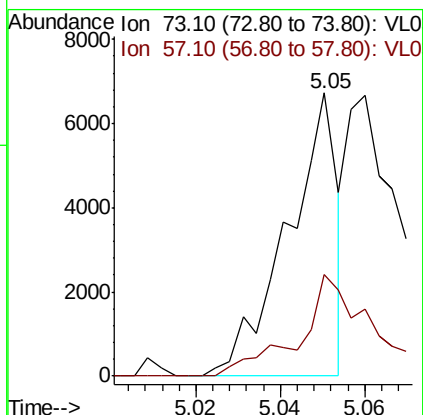
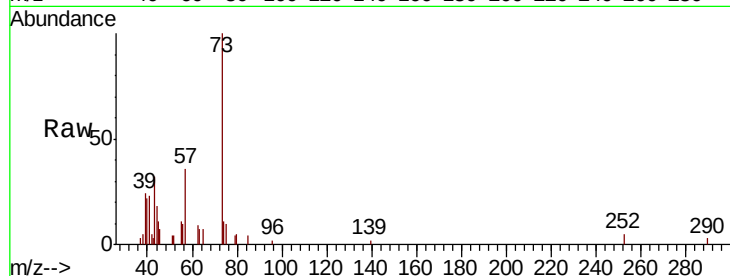




#28

Methyl tert-Butyl Ether
 Concen: 0.072 ppbv
 RT: 5.05 min Scan# 704
 Delta R.T. 0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

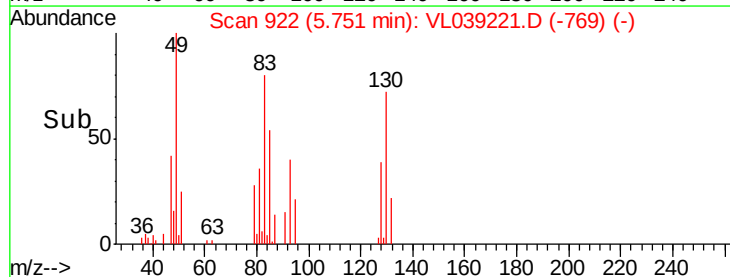
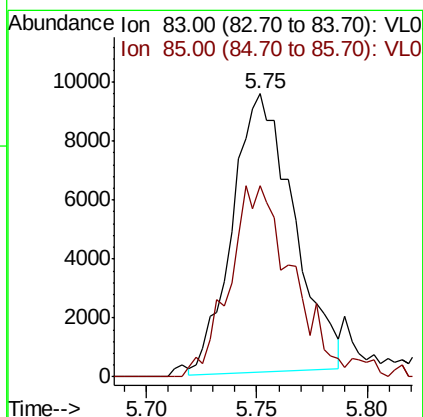
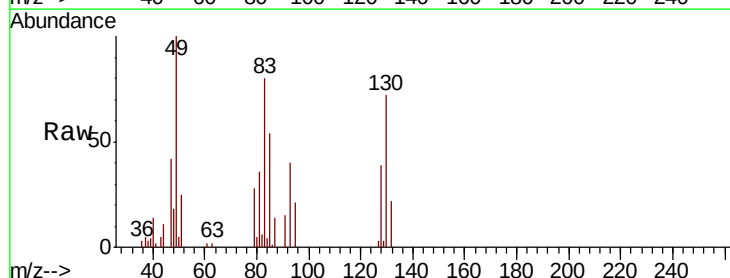
Tot Ion: 73 Resp: 5519
 Ion Ratio Lower Upper
 73 100
 57 64.0 18.6 27.8#

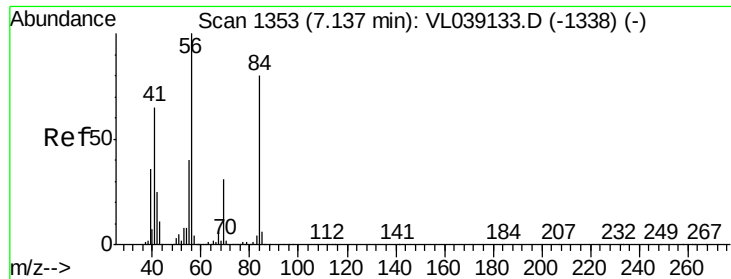


#29

Chloroform
 Concen: 0.156 ppbv
 RT: 5.75 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tgt Ion: 83 Resp: 18239
 Ion Ratio Lower Upper
 83 100
 85 66.2 52.4 78.6





#30

Cyclohexane

Concen: 0.044 ppbv

RT: 7.13 min Scan# 1352

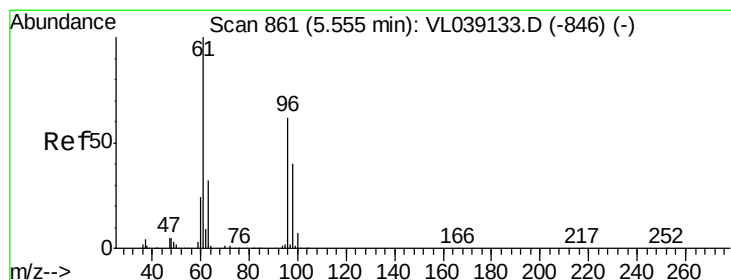
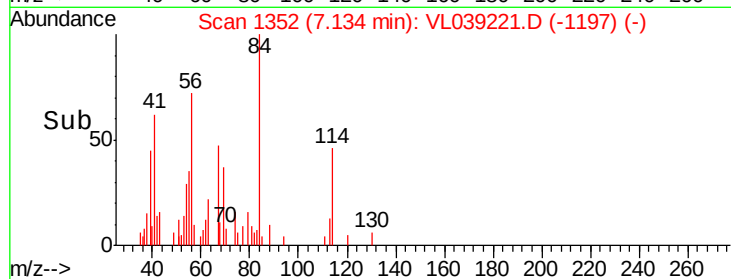
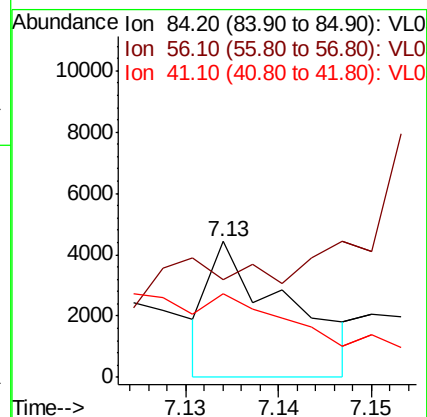
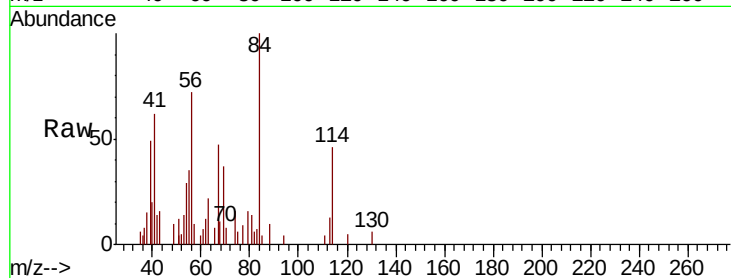
Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion: 84 Resp: 2597

Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	0.0	68.9	103.3#



#31

cis-1,2-Dichloroethene

Concen: 0.100 ppbv

RT: 5.55 min Scan# 860

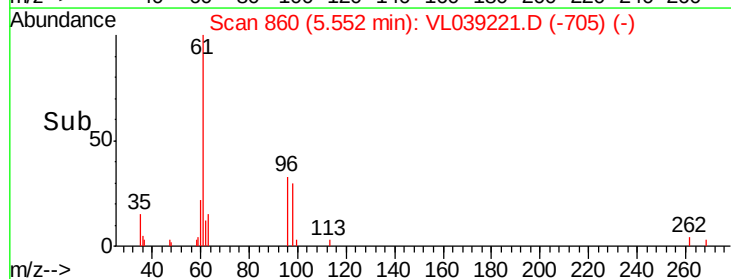
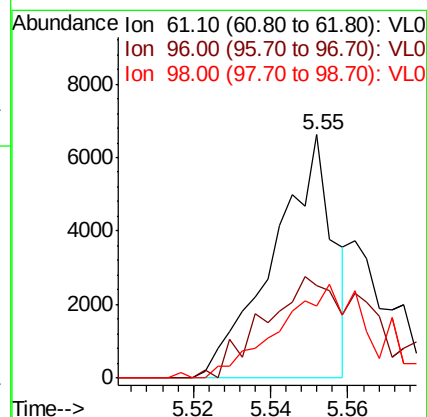
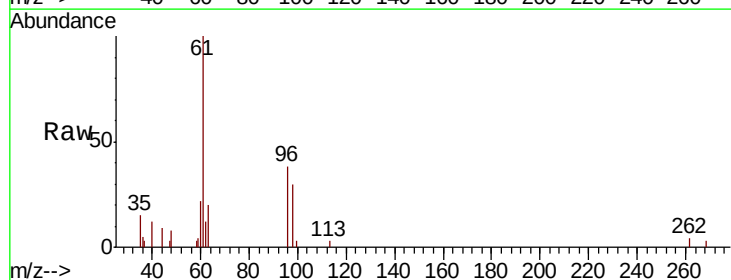
Delta R.T. -0.00 min

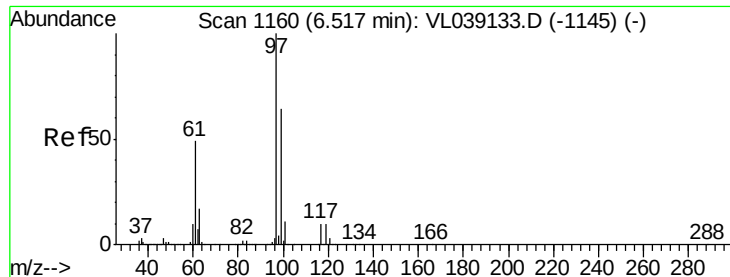
Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tgt Ion: 61 Resp: 7095

Ion	Ratio	Lower	Upper
61	100		
96	37.9	49.9	74.9#
98	29.5	32.0	48.0#





#32

1,1,1-Trichloroethane

Concen: 0.035 ppbv

RT: 6.51 min Scan# 1159

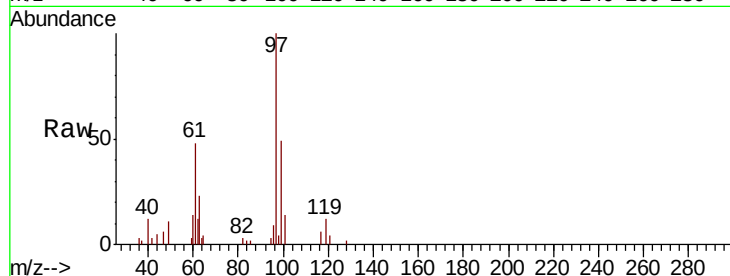
Delta R.T. -0.00 min

Lab File: VL039221.D

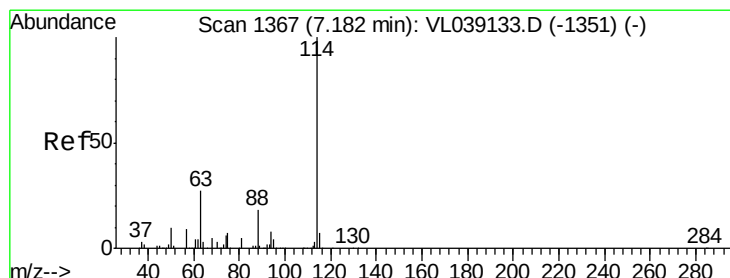
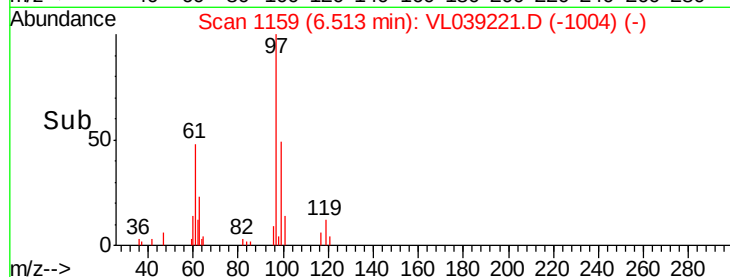
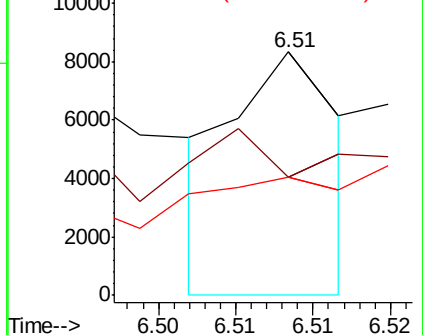
Acq: 7 Jun 2022 22:55

Tot Ion: 97 Resp: 3970

Ion	Ratio	Lower	Upper
97	100		
99	283.9	52.1	78.1#
61	0.0	40.0	60.0#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

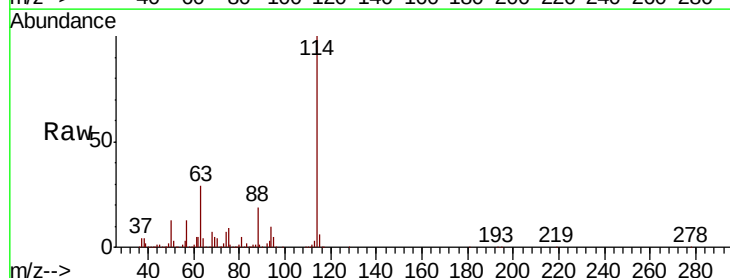
Delta R.T. -0.01 min

Lab File: VL039221.D

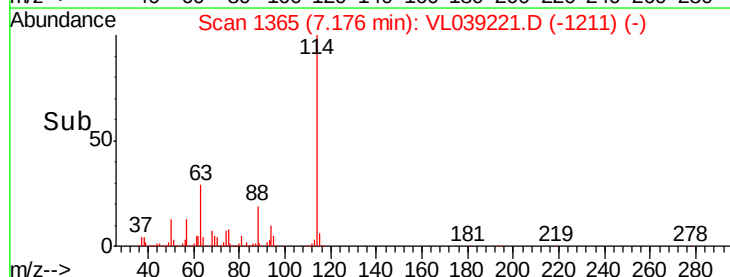
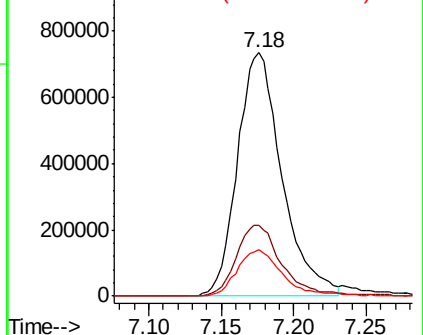
Acq: 7 Jun 2022 22:55

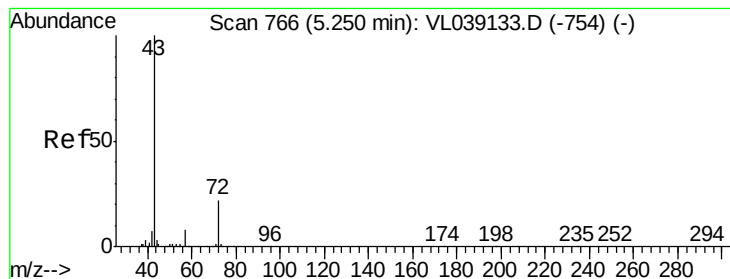
Tgt Ion: 114 Resp: 1566754

Ion	Ratio	Lower	Upper
114	100		
63	30.4	21.7	32.5
88	19.7	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: 0.050 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL039221.D

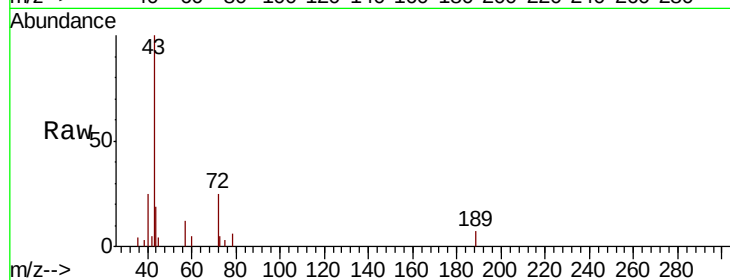
Acq: 7 Jun 2022 22:55

Tot Ion: 43 Resp: 4240

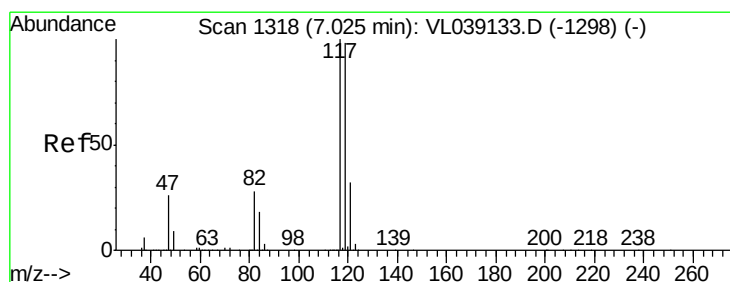
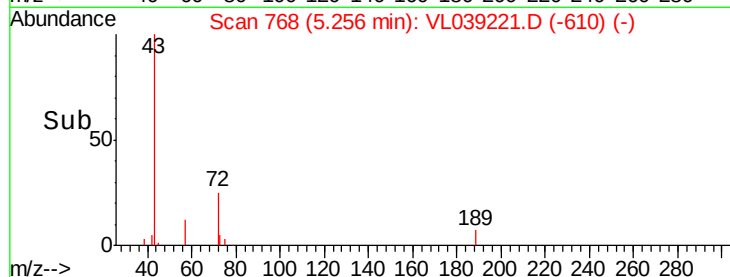
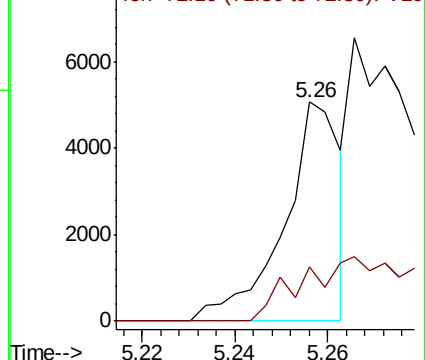
Ion Ratio Lower Upper

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



#35

Carbon Tetrachloride

Concen: 0.056 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

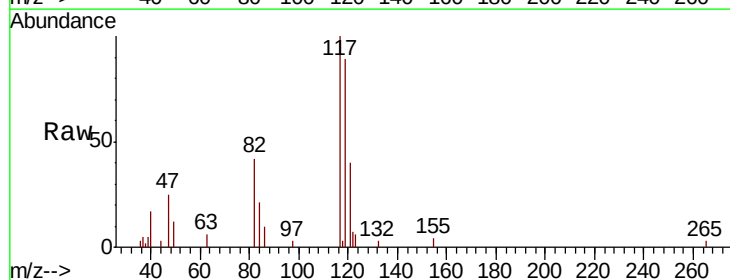
Tgt Ion: 117 Resp: 6380

Ion Ratio Lower Upper

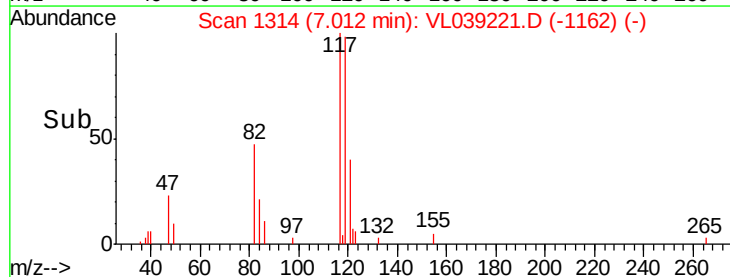
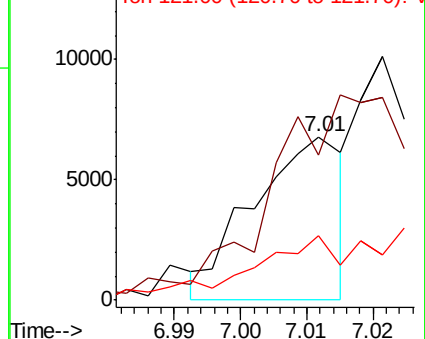
117 100

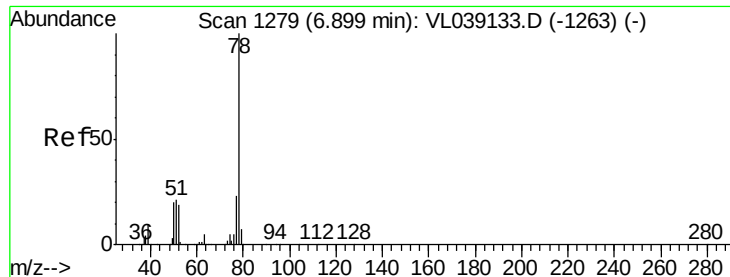
119 96.0 78.6 118.0

121 33.2 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.096 ppbv

RT: 6.89 min Scan# 1275

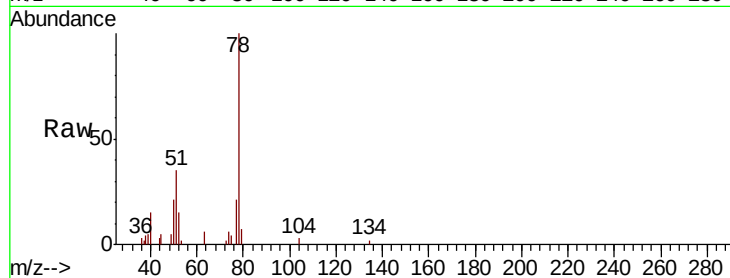
Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion: 78 Resp: 12193

Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.6	27.8
50	18.6	15.8	23.8

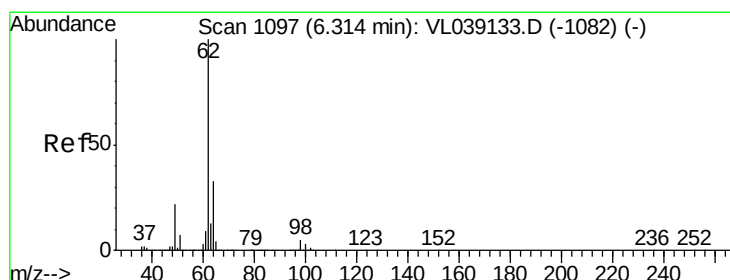
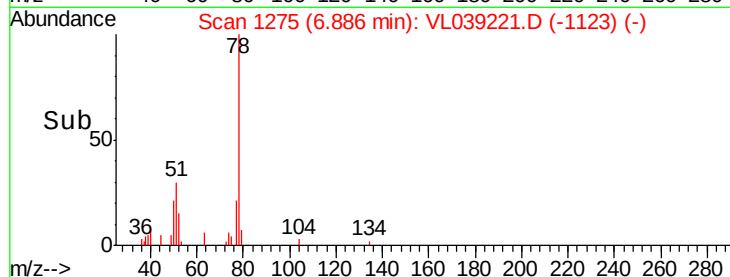
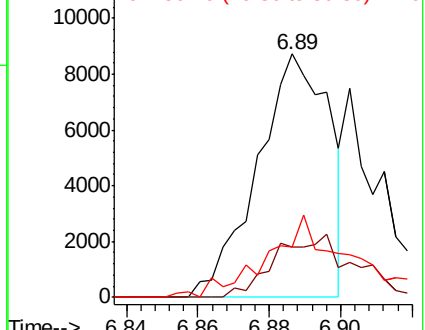


Abundance

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



#37

1,2-Dichloroethane

Concen: 0.065 ppbv

RT: 6.32 min Scan# 1098

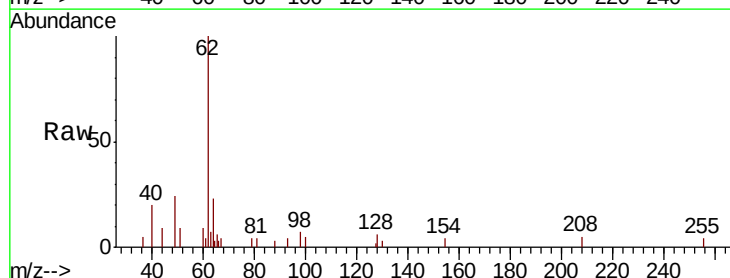
Delta R.T. 0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tgt Ion: 62 Resp: 5408

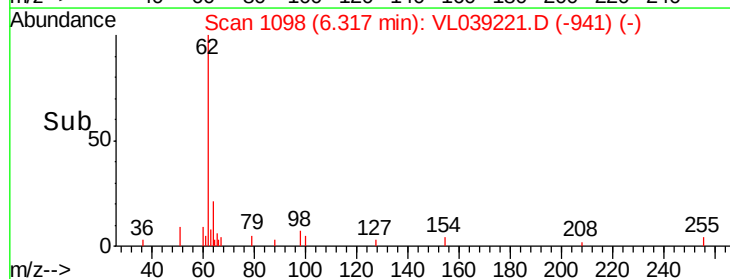
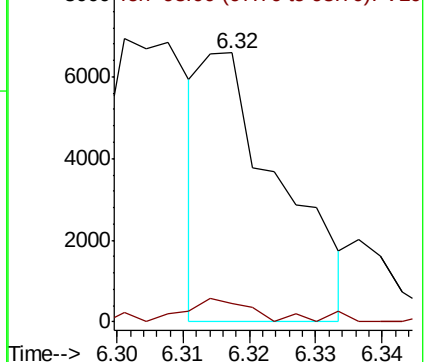
Ion	Ratio	Lower	Upper
62	100		
98	9.0	4.3	6.5#

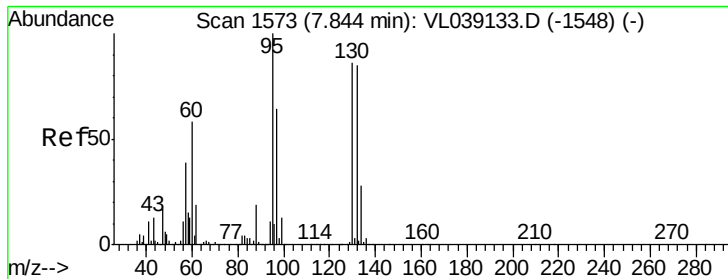


Abundance

Ion 62.10 (61.80 to 62.80): VL0

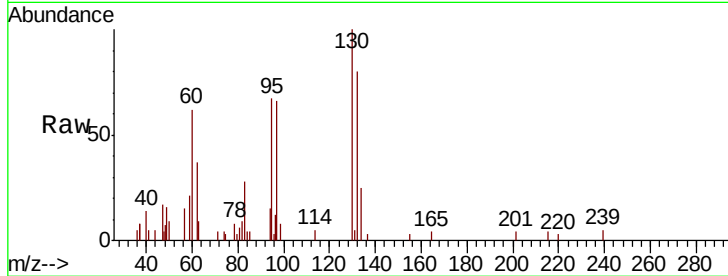
Ion 98.00 (97.70 to 98.70): VL0



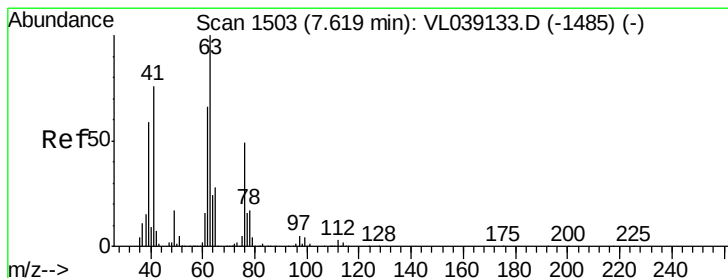
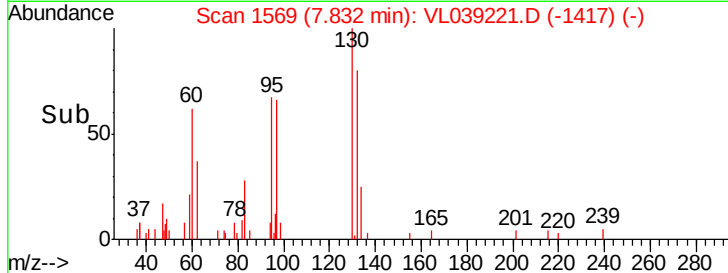
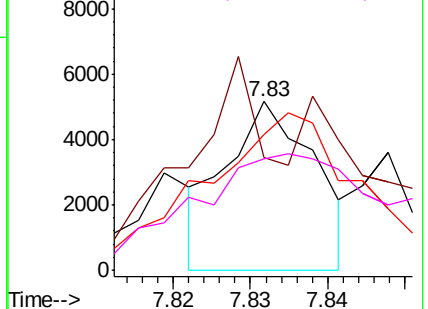


#38
 Trichloroethene
 Concen: 0.071 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tot Ion:130 Resp: 4123
 Ion Ratio Lower Upper
 130 100
 95 15.1 93.3 139.9#
 132 43.4 79.0 118.4#
 97 36.1 59.4 89.2#

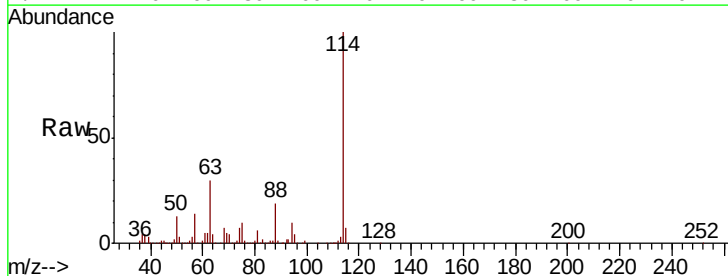


Abundance Ion 130.00 (129.70 to 130.70): V
 10000 Ion 95.00 (94.70 to 95.70): VL0
 8000 Ion 132.00 (131.70 to 132.70): V
 6000 Ion 97.00 (96.70 to 97.70): VL0

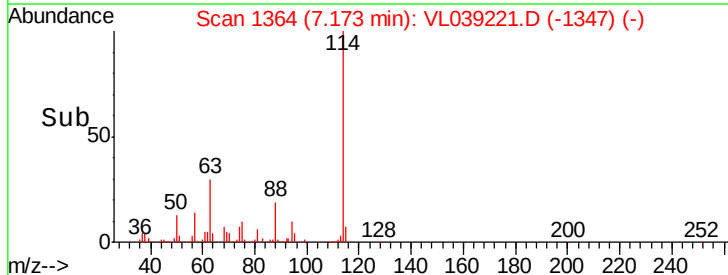
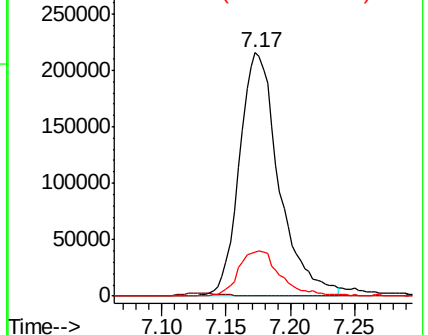


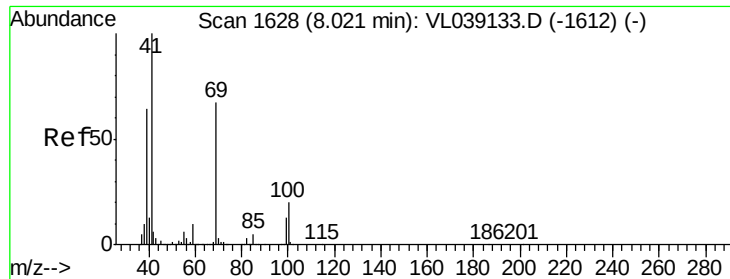
#39
 1,2-Dichloropropane
 Concen: 9.100 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tgt Ion: 63 Resp: 460419
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.8 91.2#
 62 17.9 52.9 79.3#



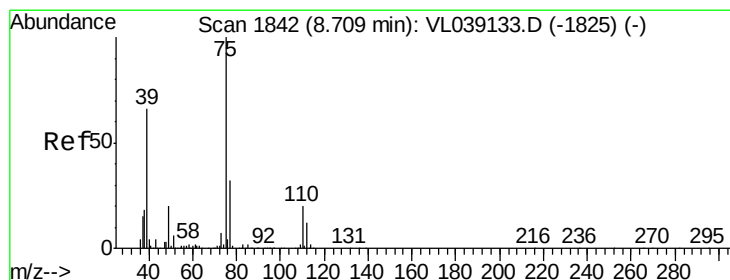
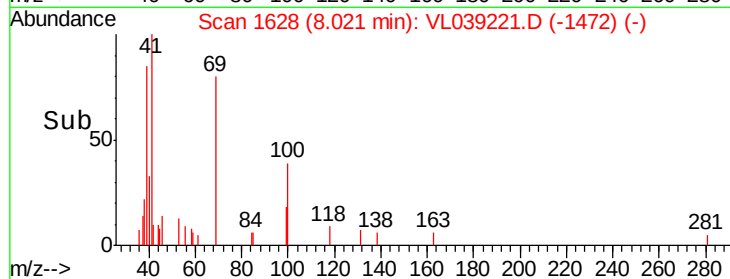
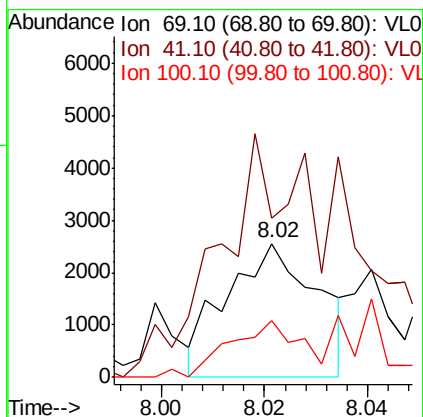
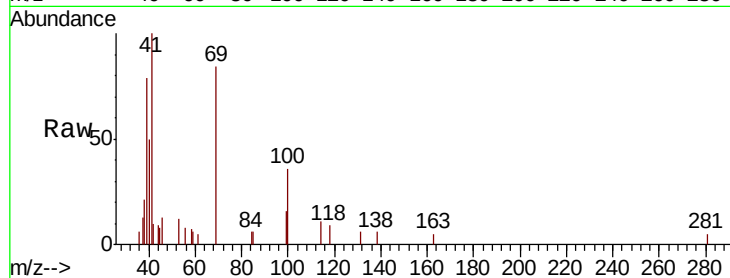
Abundance Ion 63.10 (62.80 to 63.80): VL0
 300000 Ion 41.10 (40.80 to 41.80): VL0
 250000 Ion 62.10 (61.80 to 62.80): VL0





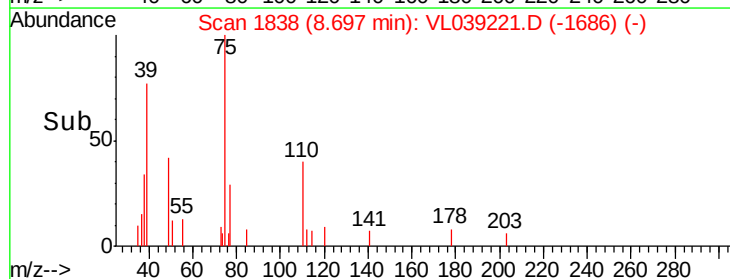
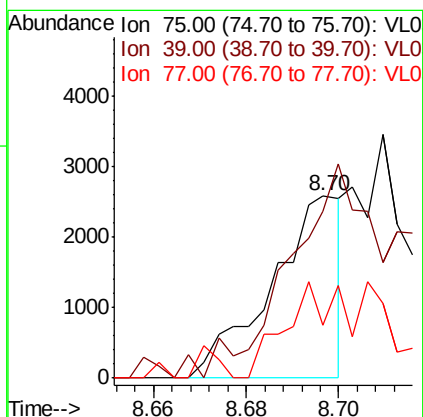
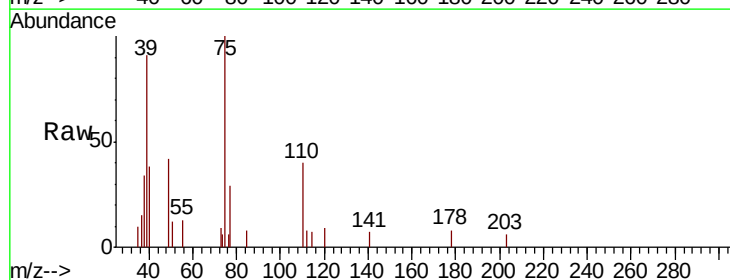
#43
Methvl Methacrylate
Concen: 0.063 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.00 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

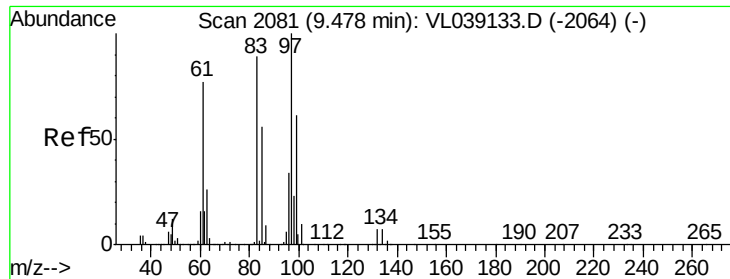
Tot Ion: 69 Resp: 3110
Ion Ratio Lower Upper
69 100
41 294.2 121.9 182.9#
100 0.0 24.1 36.1#



#46
cis-1,3-Dichloropropene
Concen: 0.040 ppbv
RT: 8.70 min Scan# 1838
Delta R.T. -0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tgt Ion: 75 Resp: 2731
Ion Ratio Lower Upper
75 100
39 78.6 52.4 78.6
77 29.0 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 0.042 ppbv

RT: 9.47 min Scan# 2077

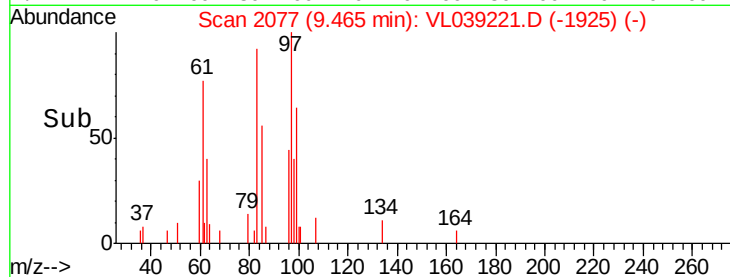
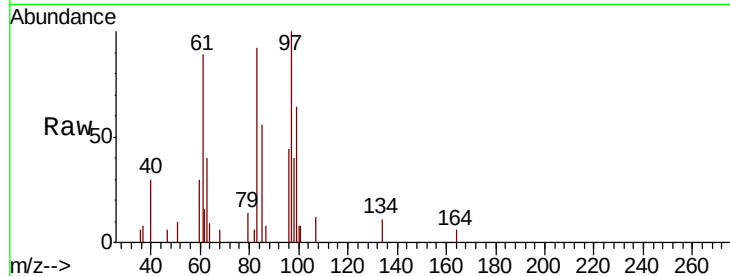
Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion: 97 Resp: 2212

Ion	Ratio	Lower	Upper
97	100		
83	92.2	71.6	107.4
85	55.6	44.8	67.2
99	55.6	49.0	73.4

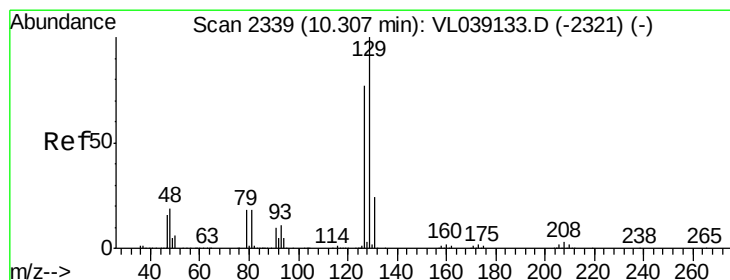
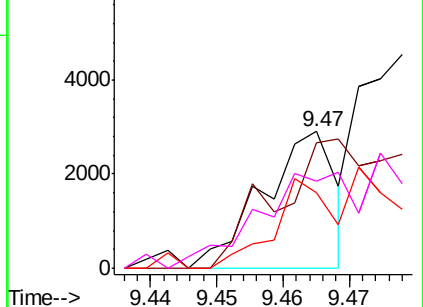


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.066 ppbv

RT: 10.30 min Scan# 2336

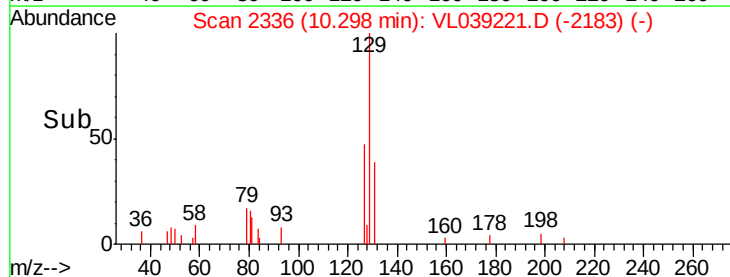
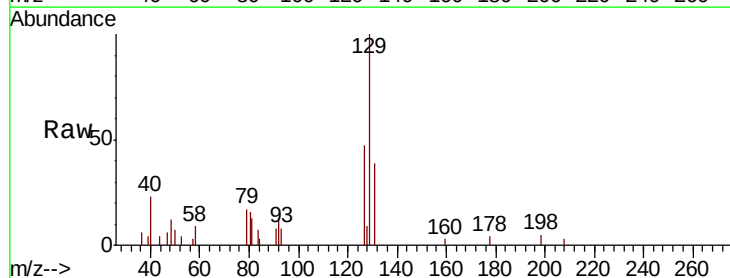
Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

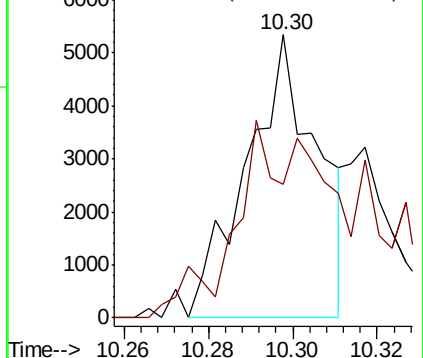
Tgt Ion: 129 Resp: 6202

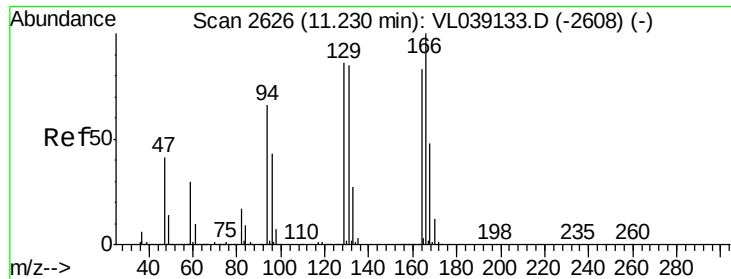
Ion	Ratio	Lower	Upper
129	100		
127	130.1	40.0	119.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Tetrachloroethene

Concen: 0.044 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.02 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion:164 Resp: 2176

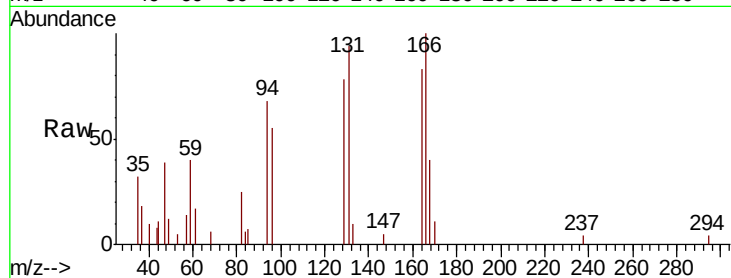
Ion Ratio Lower Upper

164 100

166 115.3 96.3 144.5

129 83.0 82.5 123.7

131 82.9 82.1 123.1

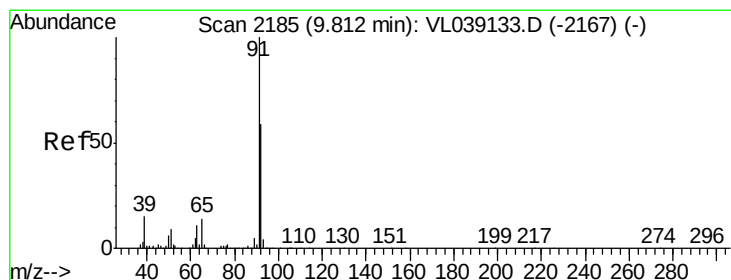
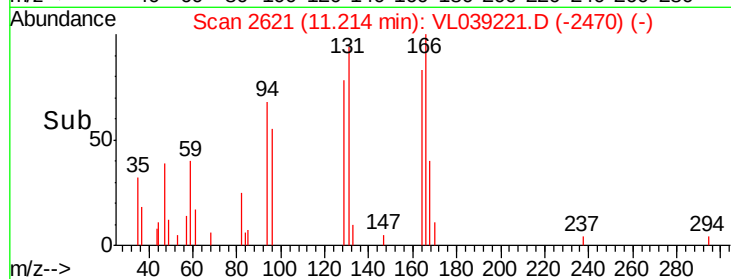
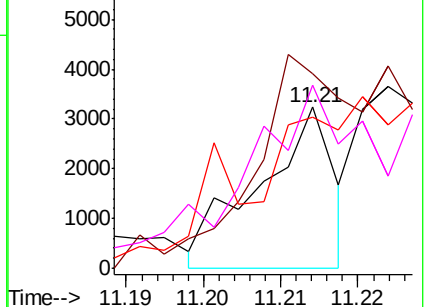


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.061 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL039221.D

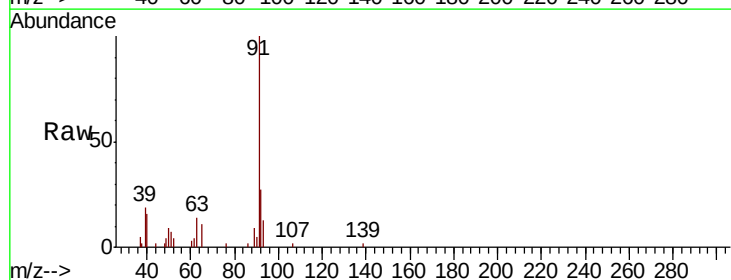
Acq: 7 Jun 2022 22:55

Tgt Ion: 91 Resp: 8925

Ion Ratio Lower Upper

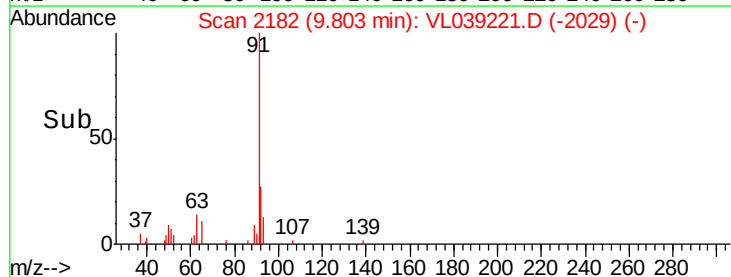
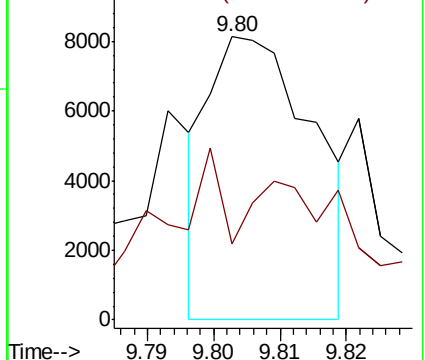
91 100

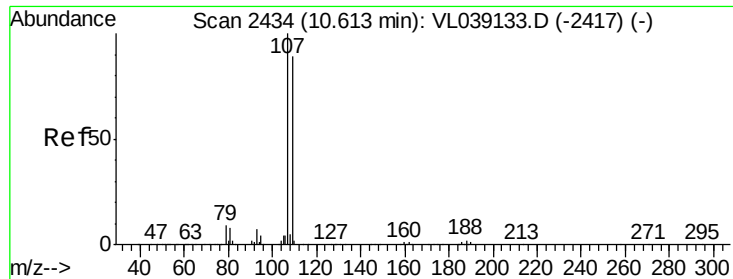
92 104.9 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

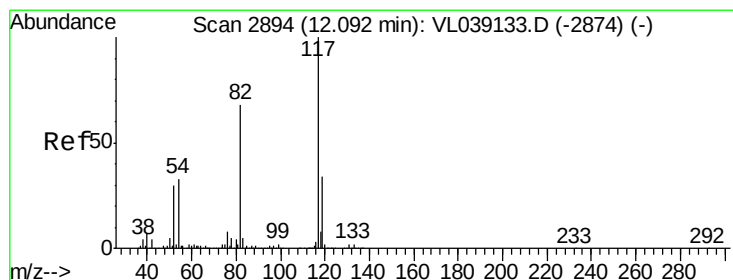
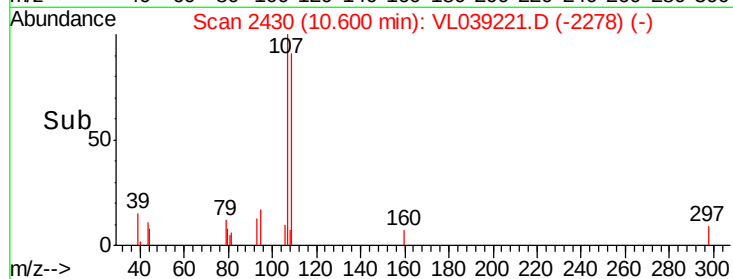
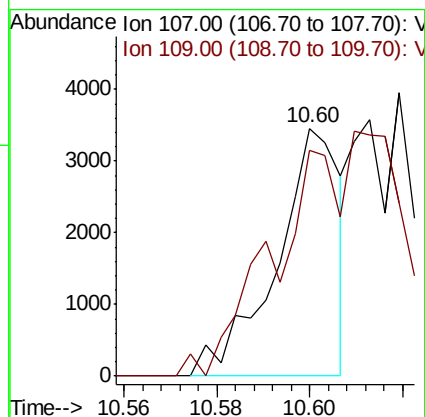
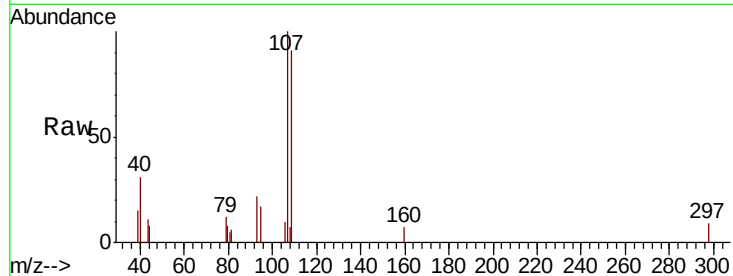
Ion 92.10 (91.80 to 92.80): VL0





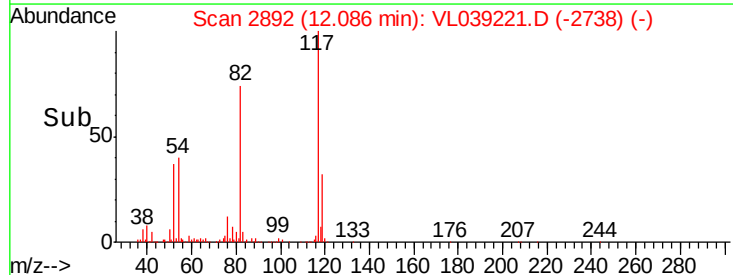
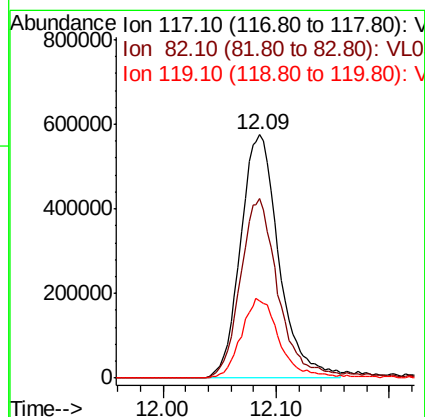
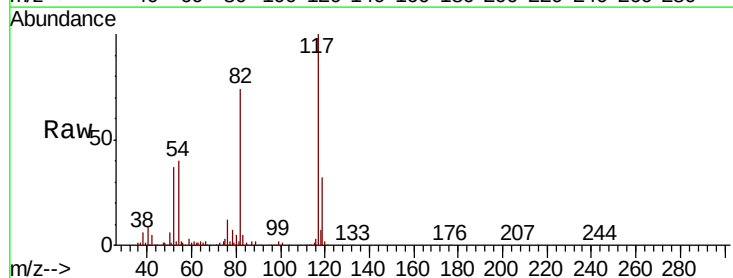
#54
 1,2-Dibromoethane
 Concen: 0.046 ppbv
 RT: 10.60 min Scan# 2430
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

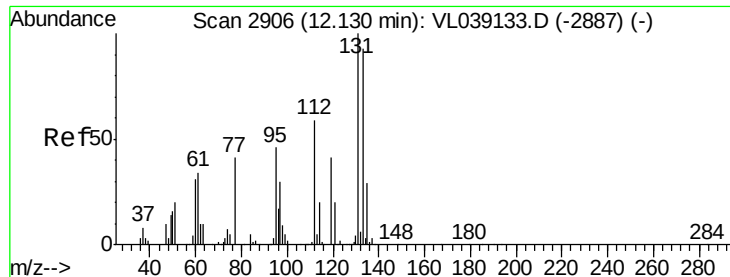
Tot Ion:107 Resp: 3267
 Ion Ratio Lower Upper
 107 100
 109 81.6 71.4 107.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

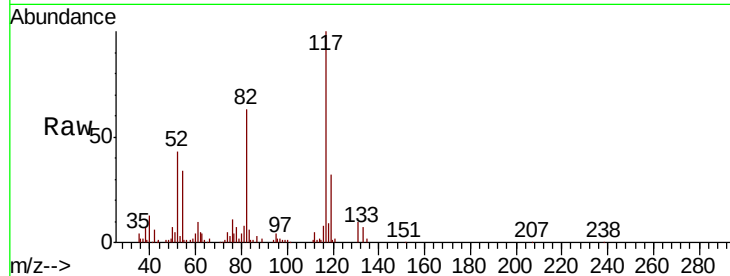
Tgt Ion:117 Resp: 1361352
 Ion Ratio Lower Upper
 117 100
 82 74.8 55.1 82.7
 119 33.1 24.7 37.1



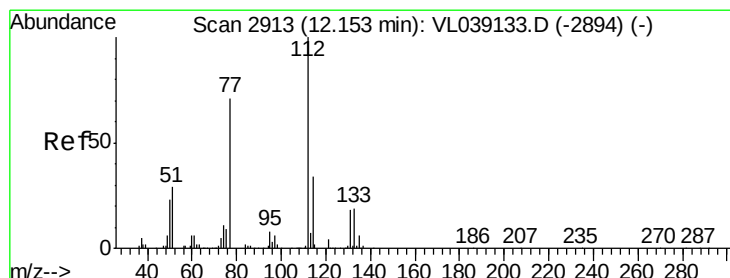
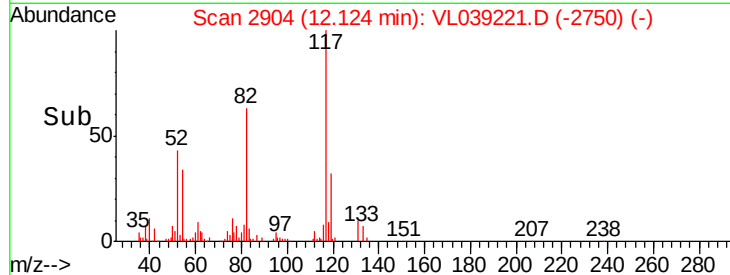
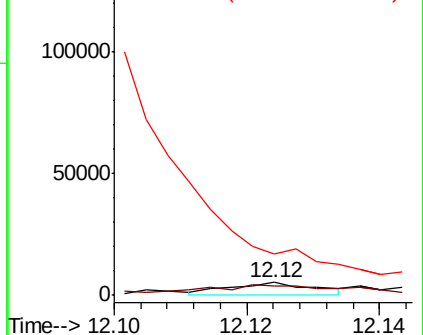


#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.073 ppbv
 RT: 12.12 min Scan# 2904
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tot Ion	Ratio	Lower	Upper
131	100		
133	190.9	78.6	117.8#
119	0.0	51.7	77.5#

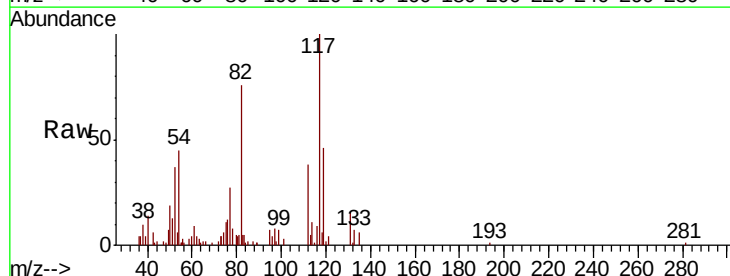


Abundance Ion 131.00 (130.70 to 131.70): V
 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

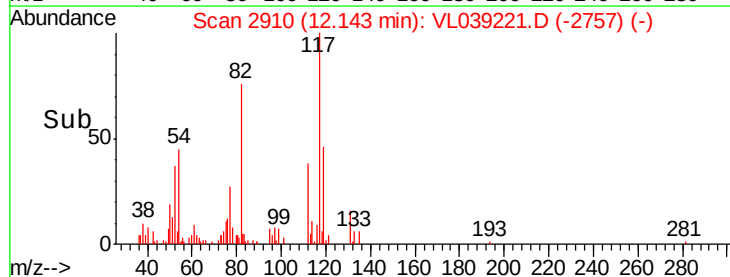
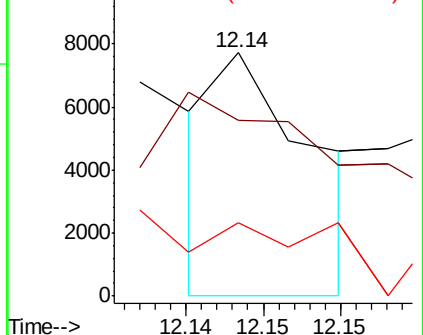


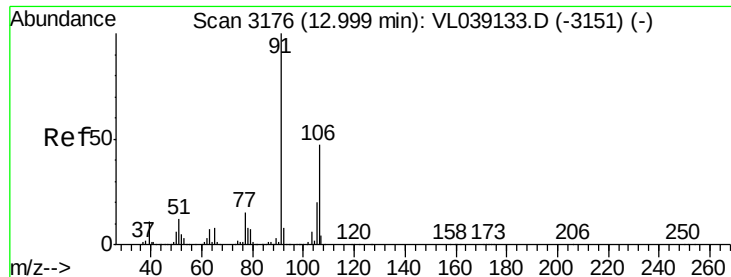
#57
 Chlorobenzene
 Concen: 0.033 ppbv
 RT: 12.14 min Scan# 2910
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tgt Ion	Ratio	Lower	Upper
112	100		
77	45.5	56.5	84.7#
114	38.2	30.3	37.1#



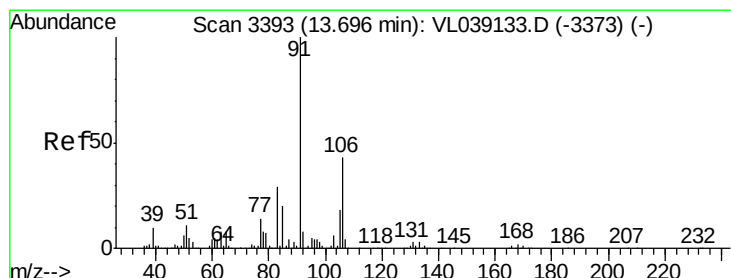
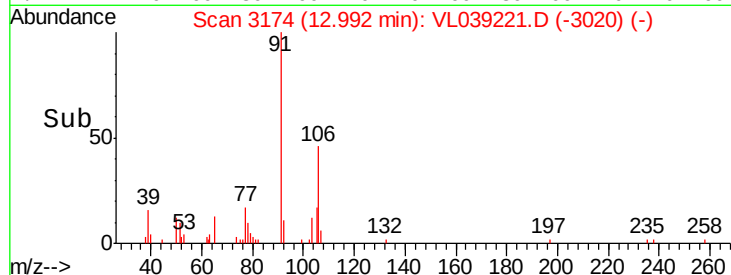
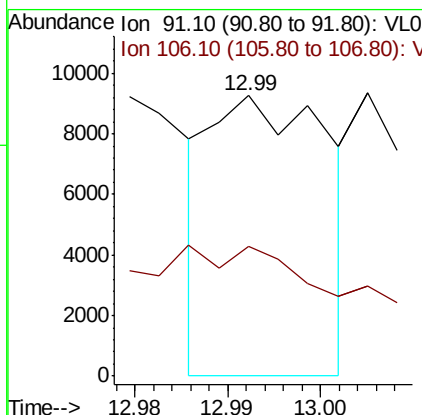
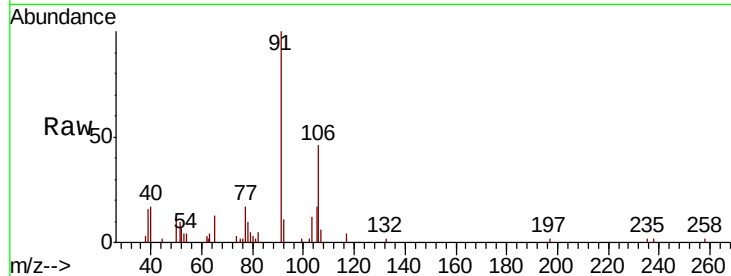
Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 77.10 (76.80 to 77.80): V
 Ion 114.10 (113.80 to 114.80): V





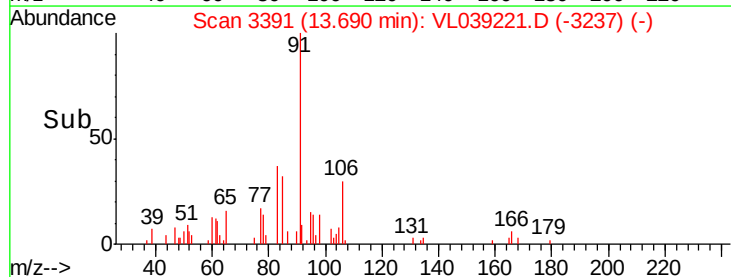
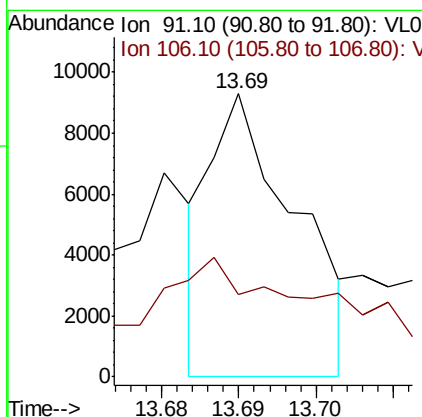
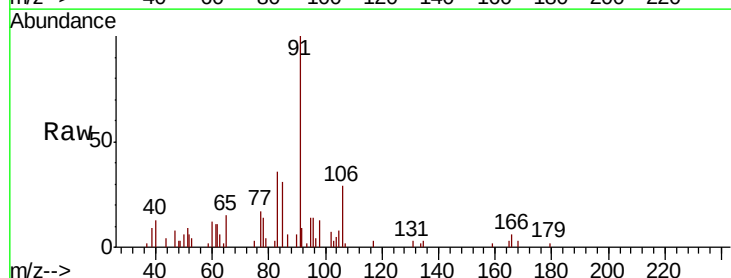
#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

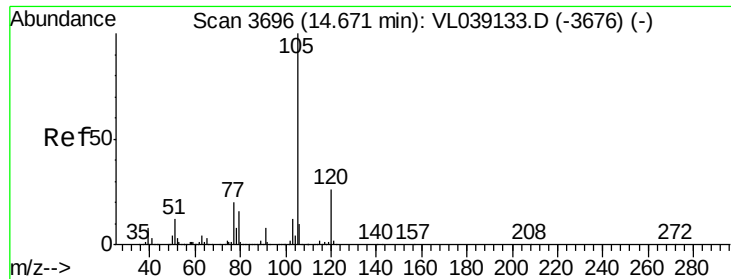
Tot Ion: 91 Resp: 8121
Ion Ratio Lower Upper
91 100
106 183.1 34.3 51.5#



#60
o-Xylene
Concen: 0.046 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tgt Ion: 91 Resp: 7140
Ion Ratio Lower Upper
91 100
106 111.3 22.3 66.9#





#62

Isopropylbenzene

Concen: 0.034 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VL039221.D

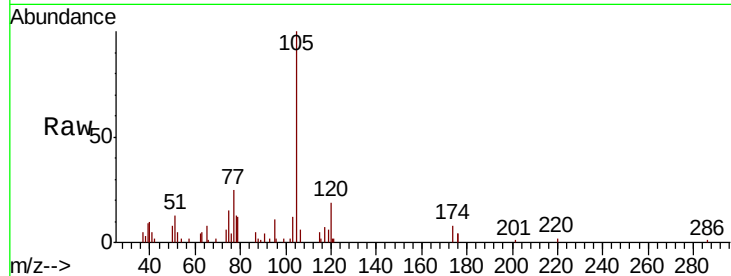
Acq: 7 Jun 2022 22:55

Tot Ion: 105 Resp: 7795

Ion Ratio Lower Upper

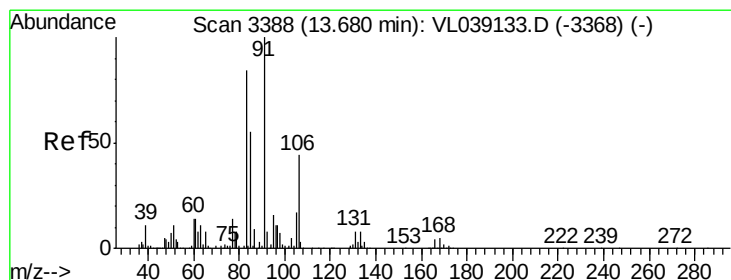
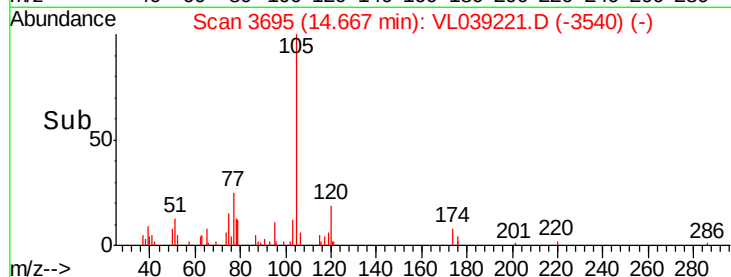
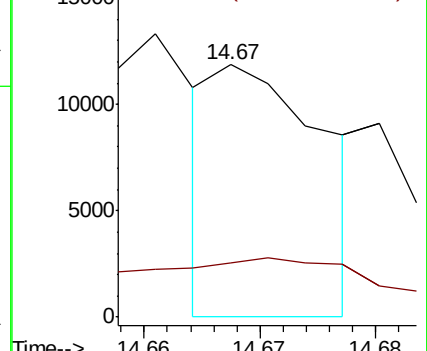
105 100

120 0.0 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

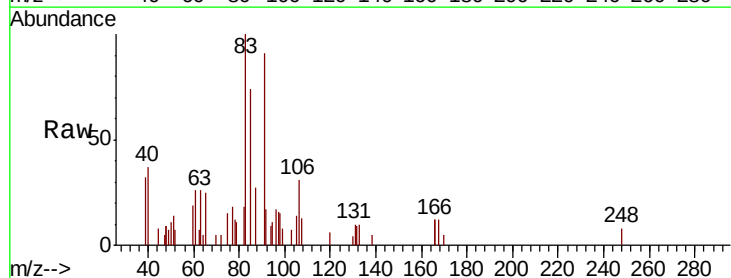
Tgt Ion: 83 Resp: 2817

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

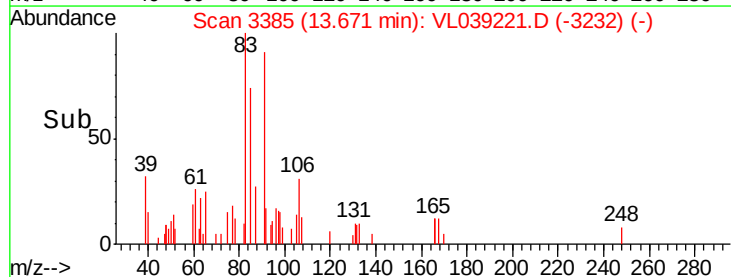
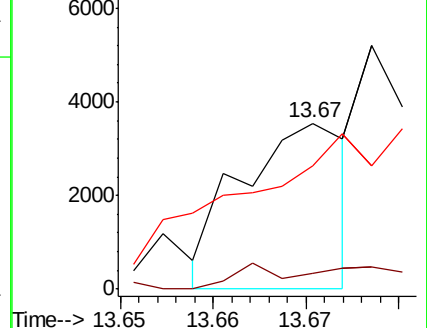
85 0.0 33.0 99.0#

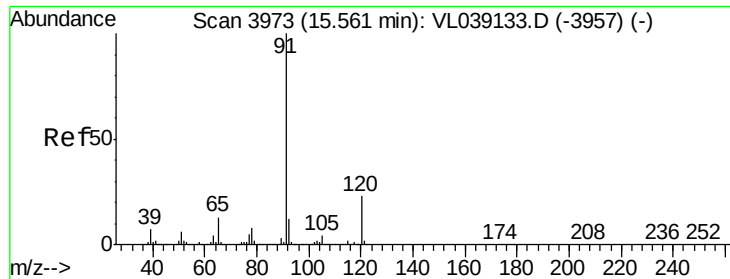


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

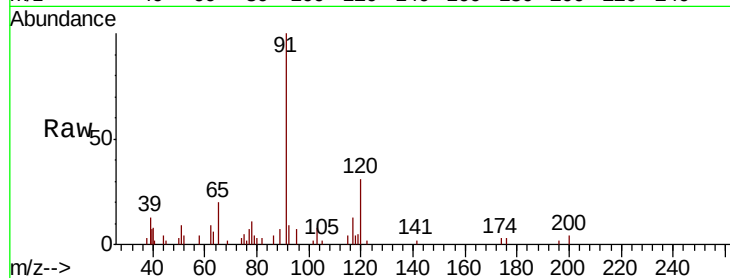
Ion 85.00 (84.70 to 85.70): VL0



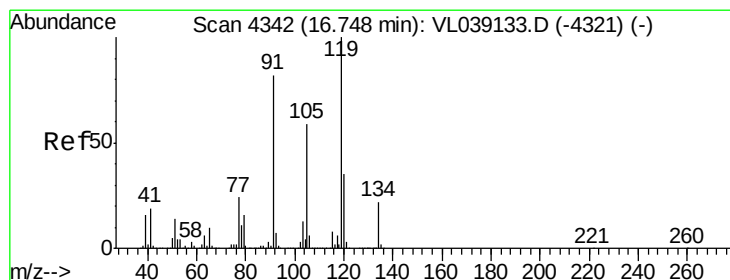
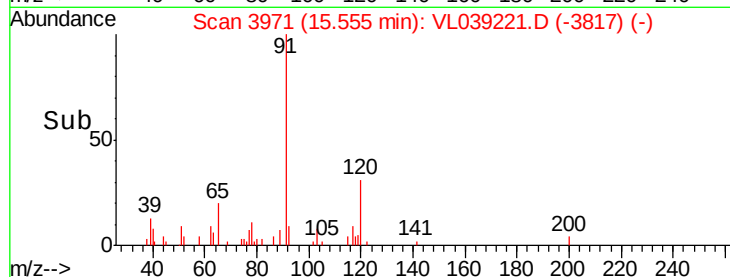
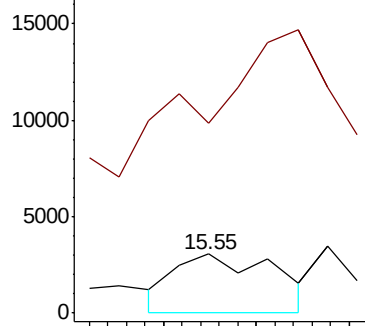


#64
n-propylbenzene
Concen: 0.041 ppbv
RT: 15.55 min Scan# 3971
Delta R.T. -0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tot Ion:120 Resp: 2310
Ion Ratio Lower Upper
120 100
91 0.0 388.4 582.6#

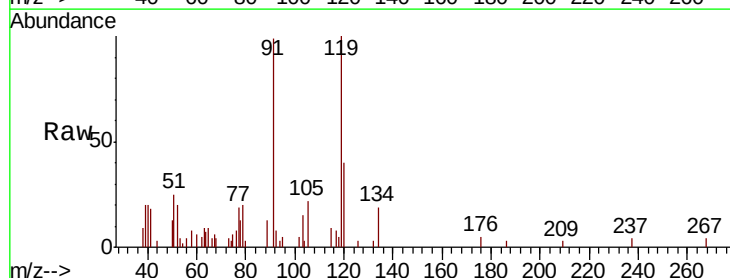


Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

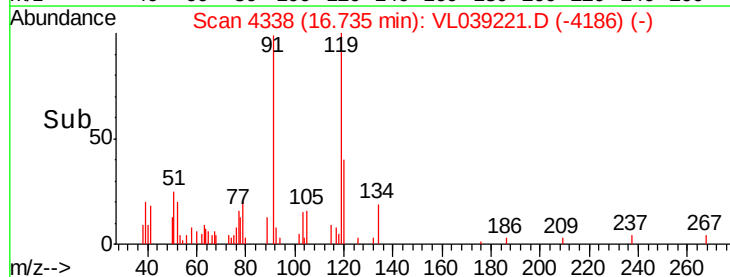
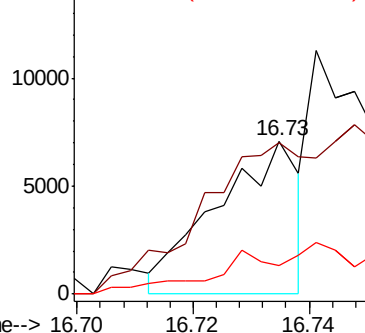


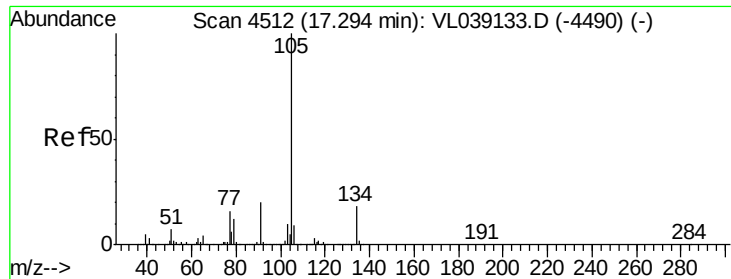
#65
tert-Butylbenzene
Concen: 0.033 ppbv
RT: 16.73 min Scan# 4338
Delta R.T. -0.01 min
Lab File: VL039221.D
Acq: 7 Jun 2022 22:55

Tgt Ion:119 Resp: 6954
Ion Ratio Lower Upper
119 100
91 0.0 67.1 100.7#
134 0.0 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.054 ppbv

RT: 17.29 min Scan# 4510

Delta R.T. -0.01 min

Lab File: VL039221.D

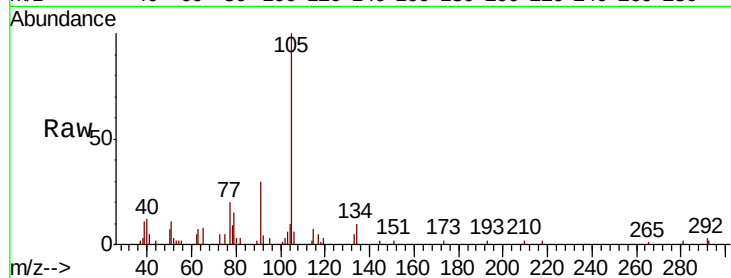
Acq: 7 Jun 2022 22:55

Tot Ion: 105 Resp: 15628

Ion Ratio Lower Upper

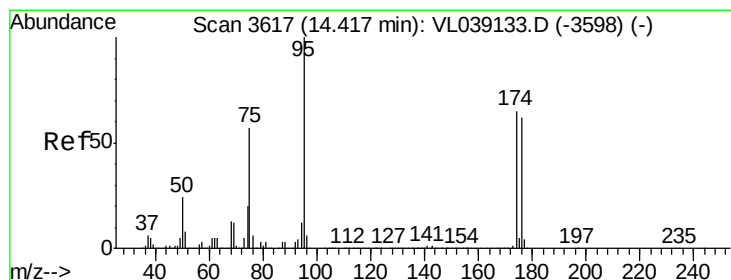
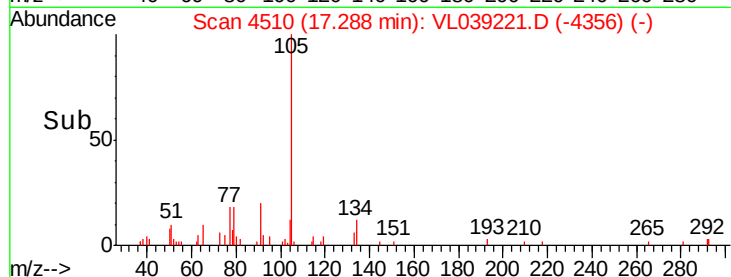
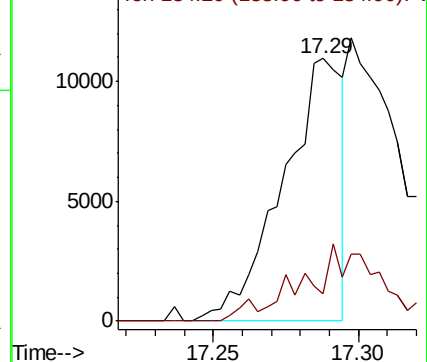
105 100

134 39.9 14.4 21.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.303 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

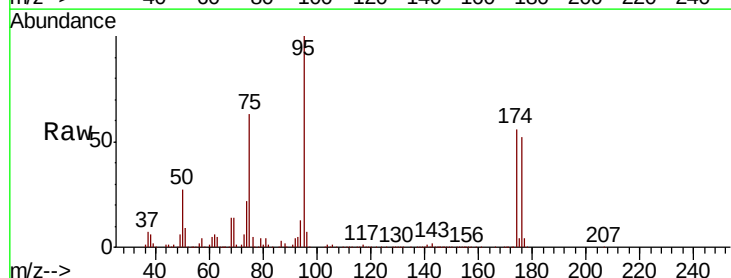
Tgt Ion: 95 Resp: 1159592

Ion Ratio Lower Upper

95 100

174 62.6 53.8 80.8

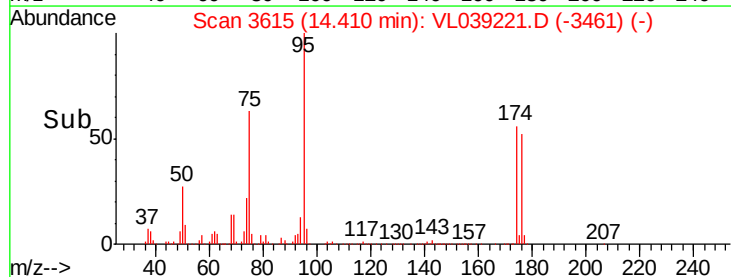
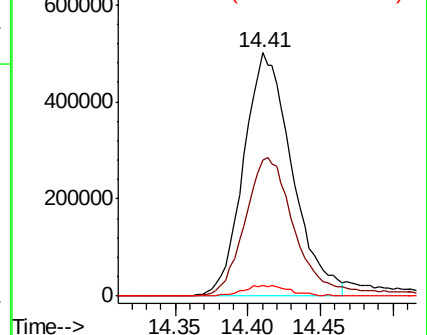
175 4.5 4.1 6.1

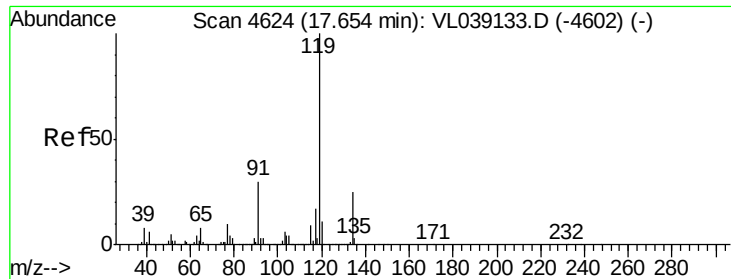


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.066 ppbv

RT: 17.65 min Scan# 4623

Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

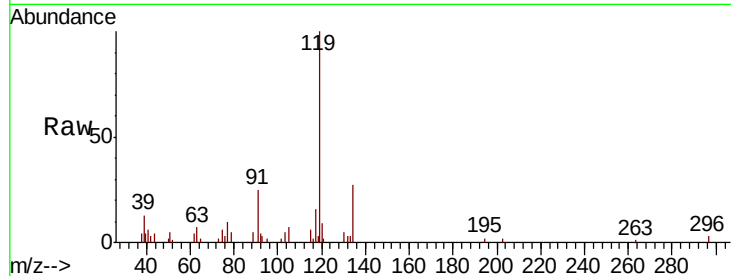
Tot Ion: 119 Resp: 16085

Ion Ratio Lower Upper

119 100

134 35.8 20.4 30.6#

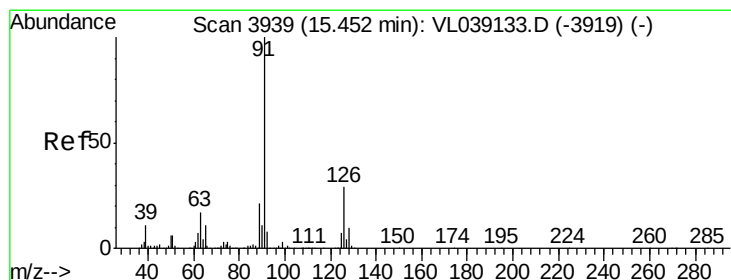
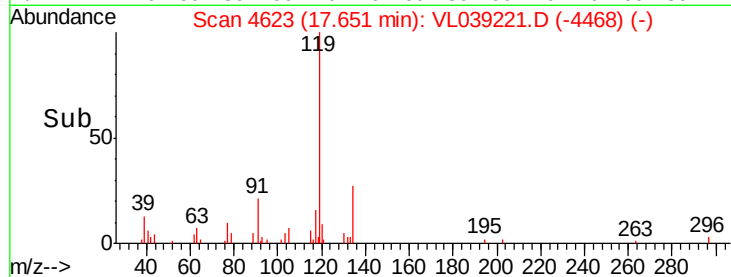
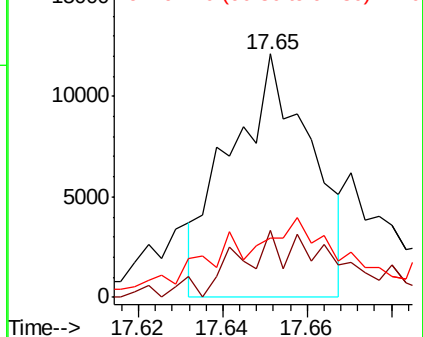
91 58.0 24.2 36.4#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#71

2-Chlorotoluene

Concen: 0.043 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. -0.00 min

Lab File: VL039221.D

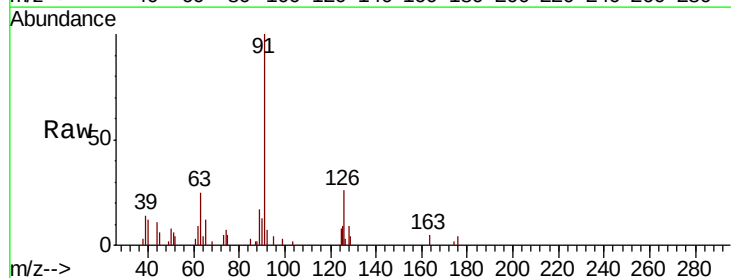
Acq: 7 Jun 2022 22:55

Tgt Ion: 91 Resp: 7644

Ion Ratio Lower Upper

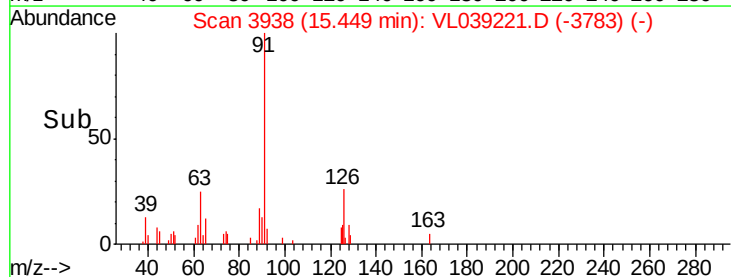
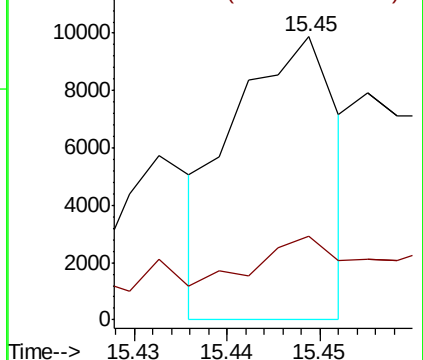
91 100

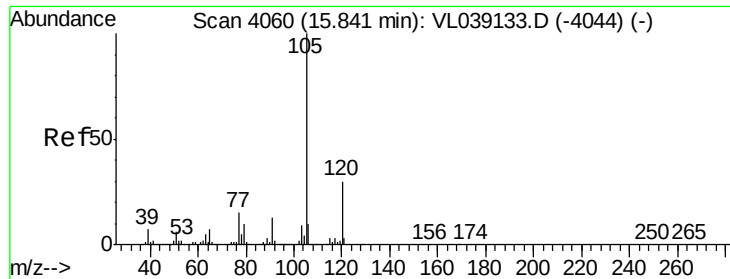
126 82.7 12.2 48.6#



Abundance Ion 91.10 (90.80 to 91.80): V

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.036 ppbv

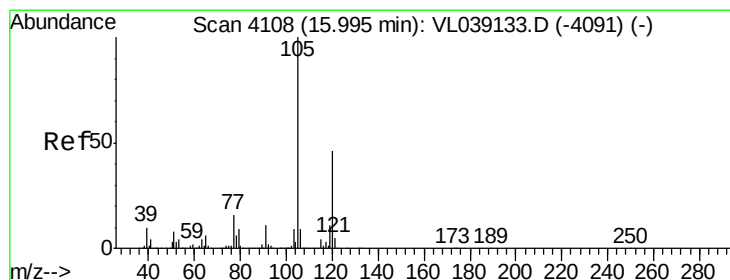
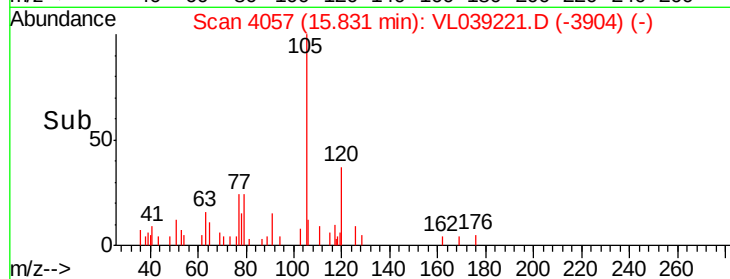
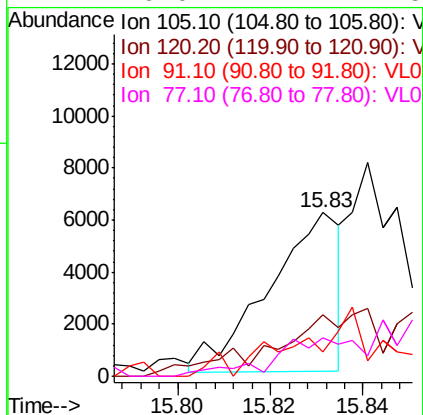
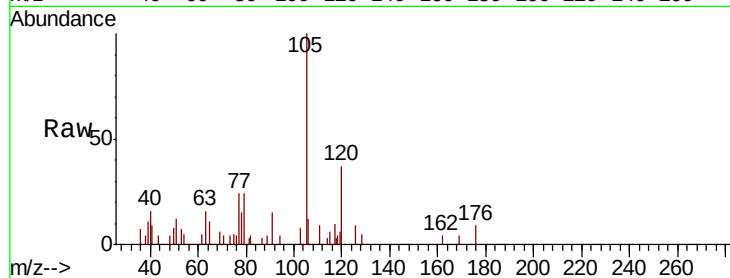
RT: 15.83 min Scan# 4057

Delta R.T. -0.01 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

Tot Ion:105	Resp:	6525
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.9 35.9#
91	0.0	10.6 16.0#
77	0.0	11.7 17.5#



#73

1,3,5-Trimethylbenzene

Concen: 0.054 ppbv

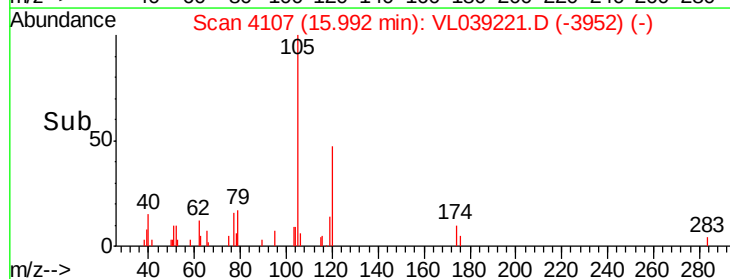
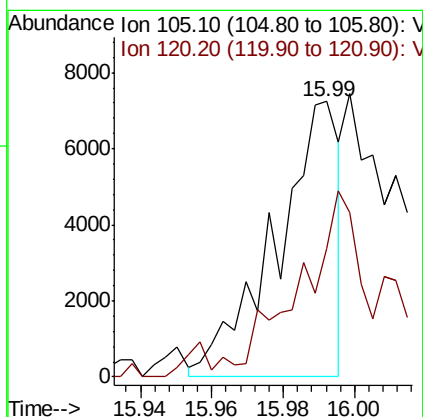
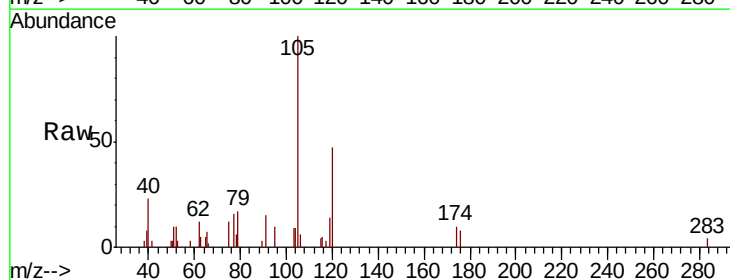
RT: 15.99 min Scan# 4107

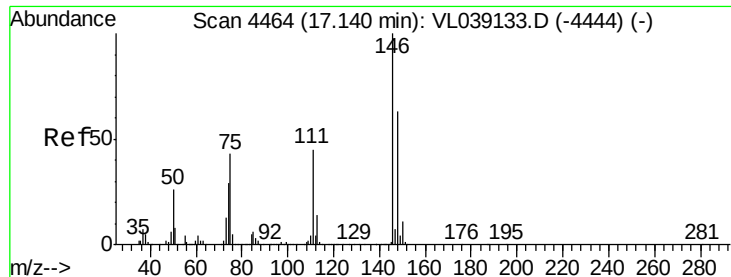
Delta R.T. -0.00 min

Lab File: VL039221.D

Acq: 7 Jun 2022 22:55

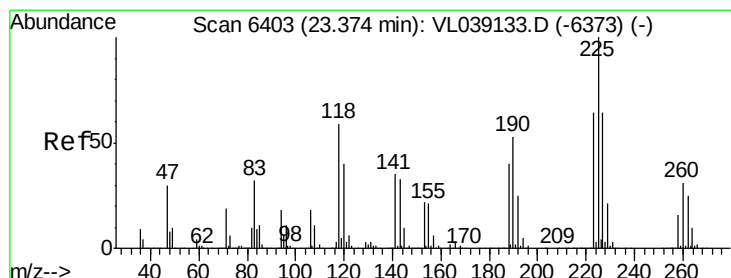
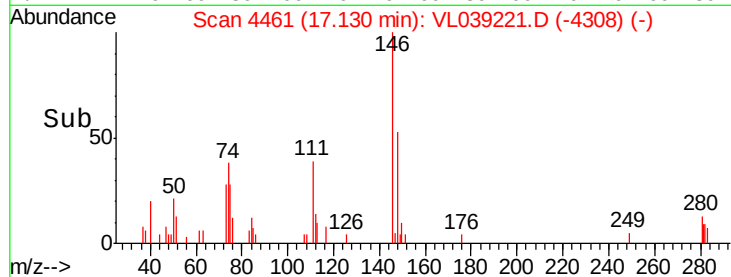
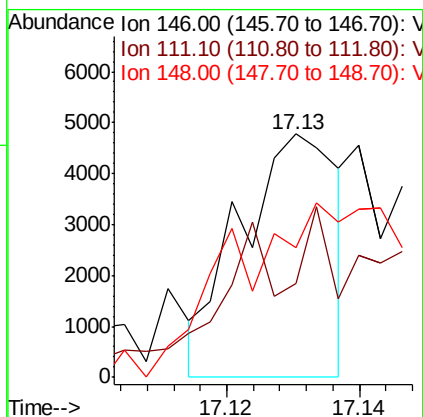
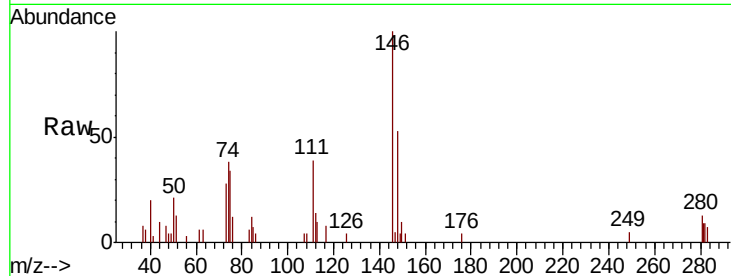
Tgt Ion:105	Resp:	8842
Ion Ratio	Lower	Upper
105	100	
120	39.8	36.7 55.1





#76
 1,4-Dichlorobenzene
 Concen: 0.047 ppbv
 RT: 17.13 min Scan# 4461
 Delta R.T. -0.01 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tot Ion:146 Resp: 4857
 Ion Ratio Lower Upper
 146 100
 111 145.5 23.6 71.0#
 148 196.1 33.7 101.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.030 ppbv
 RT: 23.36 min Scan# 6398
 Delta R.T. -0.02 min
 Lab File: VL039221.D
 Acq: 7 Jun 2022 22:55

Tgt Ion:225 Resp: 2908
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.4 77.0#
 227 0.0 50.6 75.8#

