

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039096.D
 Acq On : 23 May 2022 23:05
 Operator : SY/AP
 Sample : N2956-04
 Misc : 400mL/MSVOA L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1

Quant Time: May 24 06:02:19 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1104835	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2563928	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	2347092	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2097861	11.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.90%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	2.99	51	19963	0.146	ppbv #	84
4) Chloromethane	3.14	50	15147	0.221	ppbv #	61
6) Bromomethane	3.47	94	896	0.030	ppbv #	1
7) Chloroethane	3.55	64	1142	0.054	ppbv #	88
9) Propene	3.01	41	5602769	93.581	ppbv	93
10) Heptane	8.10	43	3249301	22.122	ppbv	99
11) Trichlorofluoromethane	3.94	101	54900	0.370	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4816	0.047	ppbv #	3
13) Ethanol	3.59	45	427356	100.865	ppbv	90
15) Acetone	3.83	43	16794790	161.149	ppbv #	84
16) 1,3-Butadiene	3.30	39	3288876	54.927	ppbv #	27
17) tert-Butyl alcohol	4.28	59	656266	8.193	ppbv	98
19) Isopropyl Alcohol	3.95	45	1370482	27.657	ppbv #	95
20) Methylene Chloride	4.34	84	329586	8.391	ppbv	98
21) Allyl Chloride	4.38	41	38404	0.541	ppbv #	1
23) Vinyl Acetate	5.04	43	298306	3.618	ppbv #	1
25) Ethyl Acetate	5.67	43	748159	2.999	ppbv #	82
26) Hexane	5.67	57	983686	8.875	ppbv #	38
27) Carbon Disulfide	4.54	76	303732	2.885	ppbv #	94
29) Chloroform	5.74	83	68536	0.382	ppbv	94
30) Cyclohexane	7.11	84	53383	0.575	ppbv #	1
32) 1,1,1-Trichloroethane	6.50	97	19922	0.111	ppbv #	39
34) 2-Butanone	5.22	43	3982303	30.445	ppbv	99
36) Benzene	6.88	78	1226751	5.591	ppbv	98
39) 1,2-Dichloropropane	7.47	63	9298	0.109	ppbv #	1
41) Tetrahydrofuran	6.02	42	1363614	15.511	ppbv	98
42) Bromodichloromethane	7.78	83	16701	0.090	ppbv #	25
43) Methyl Methacrylate	8.00	69	8564	0.096	ppbv #	1
44) 2,2,4-Trimethylpentane	7.85	57	223032	0.579	ppbv #	38
47) 1,1,2-Trichloroethane	9.44	97	20067	0.226	ppbv #	1
50) 4-Methyl-2-Pentanone	8.72	43	541348	2.360	ppbv	96
51) 2-Hexanone	10.09	43	4621696	27.608	ppbv #	33
52) Tetrachloroethene	11.20	164	177321	2.261	ppbv	98
53) Toluene	9.79	91	1760159	7.157	ppbv	100
58) Ethyl Benzene	12.69	91	641584	1.899	ppbv	98
59) m/p-Xylene	12.95	91	1236831	4.289	ppbv #	39
60) o-Xylene	13.67	91	906162	3.339	ppbv	98
61) Styrene	13.51	104	26242	0.181	ppbv #	68
62) Isopropylbenzene	14.64	105	107901	0.272	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.66	83	13574	0.085	ppbv #	24
64) n-propylbenzene	15.54	120	85319	0.889	ppbv	95

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

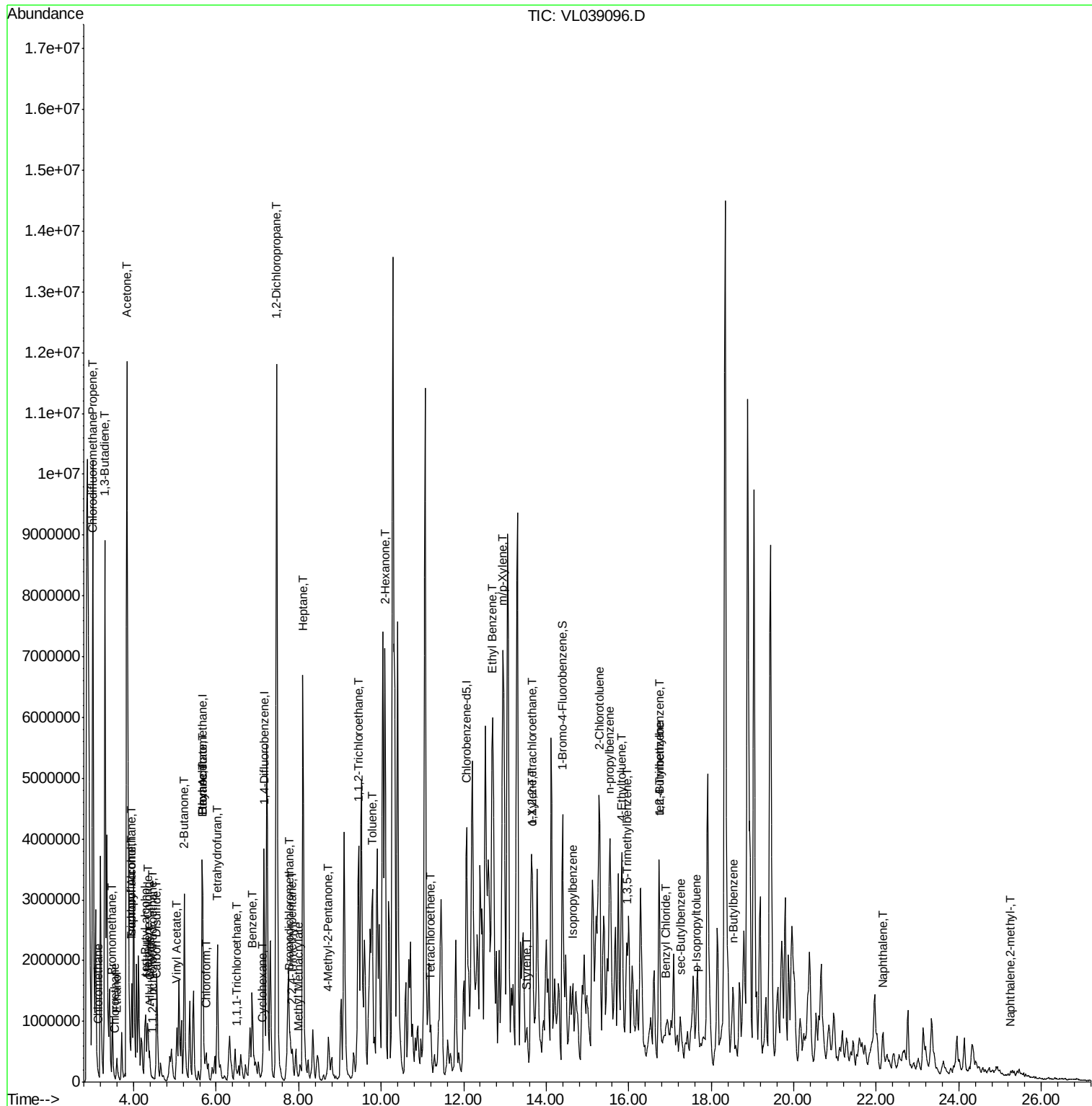
65) tert-Butylbenzene	16.74	119	264380	0.760	ppbv #	67
66) Benzyl Chloride	16.90	91	1676	0.037	ppbv #	1
67) sec-Butylbenzene	17.27	105	40910	0.082	ppbv #	56
69) p-Isopropyltoluene	17.62	119	45892	0.114	ppbv #	52
70) n-Butylbenzene	18.53	91	298758	0.701	ppbv #	36
71) 2-Chlorotoluene	15.29	91	852816	2.787	ppbv #	45
72) 4-Ethyltoluene	15.82	105	648904	2.098	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.97	105	682923	2.453	ppbv	98
74) 1,2,4-Trimethylbenzene	16.73	105	2487981	8.161	ppbv #	67
79) Naphthalene	22.16	128	337539	1.363	ppbv	96
80) Naphthalene,2-methyl-	25.27	142	39453	0.527	ppbv	91

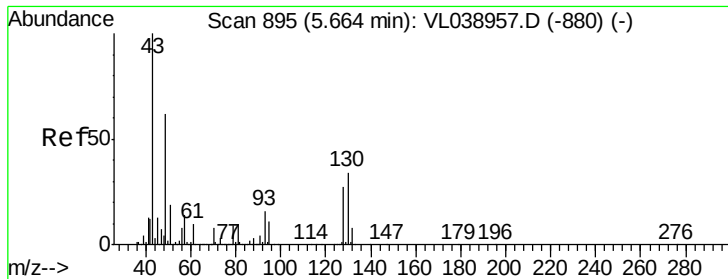
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VP-1

Acq: 23 May 2022 23:05

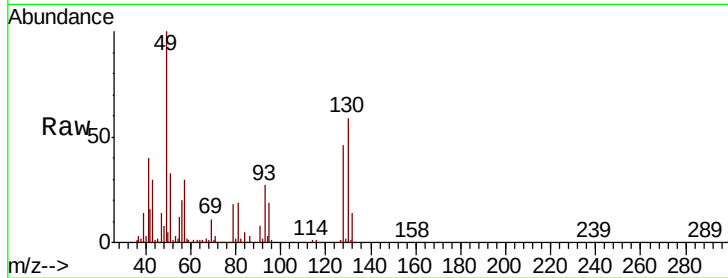
Tot Ion: 49 Resp: 1104835

Ion Ratio Lower Upper

49 100

128 46.4 23.3 69.8

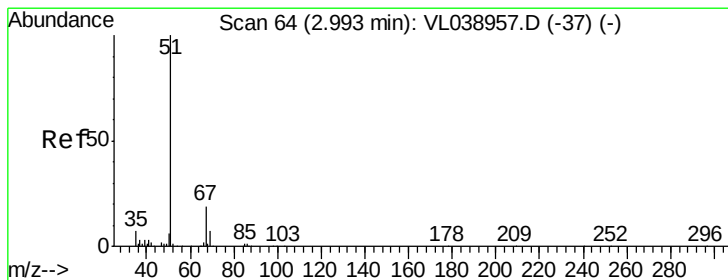
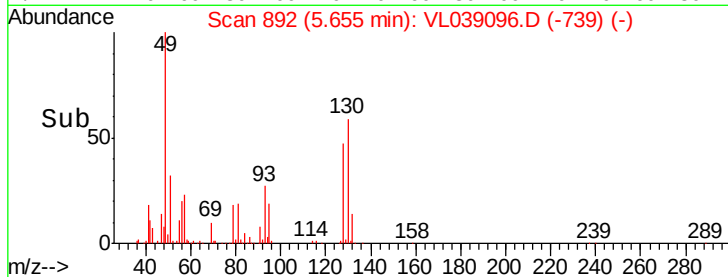
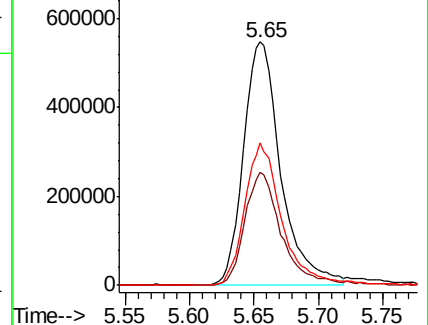
130 58.6 29.8 89.3



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: 0.146 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL039096.D

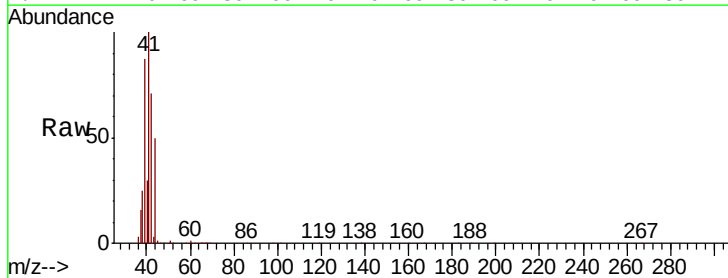
Acq: 23 May 2022 23:05

Tgt Ion: 51 Resp: 19963

Ion Ratio Lower Upper

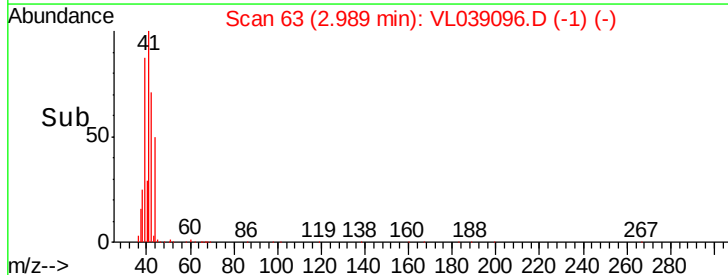
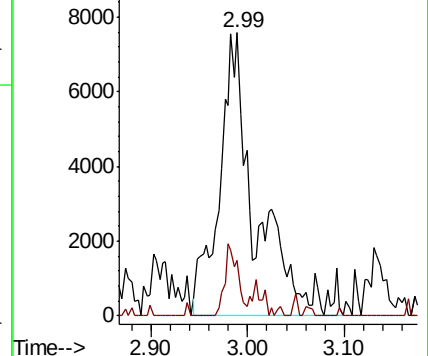
51 100

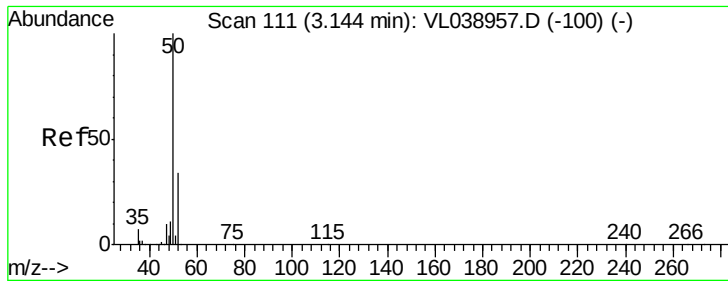
67 12.5 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.221 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

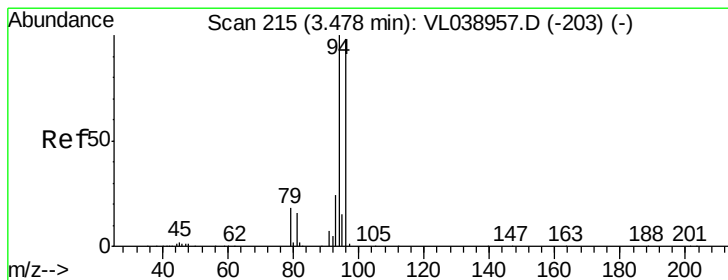
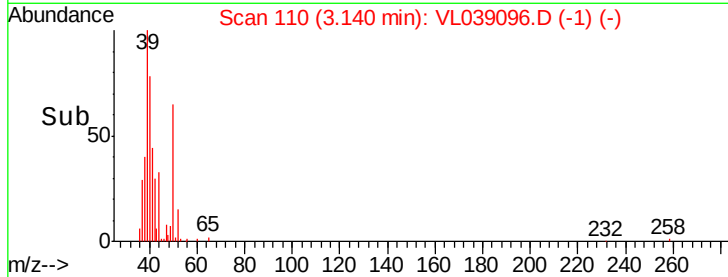
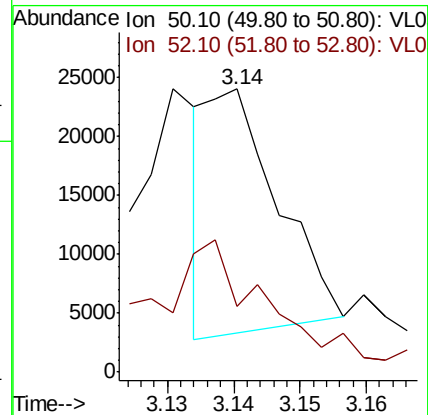
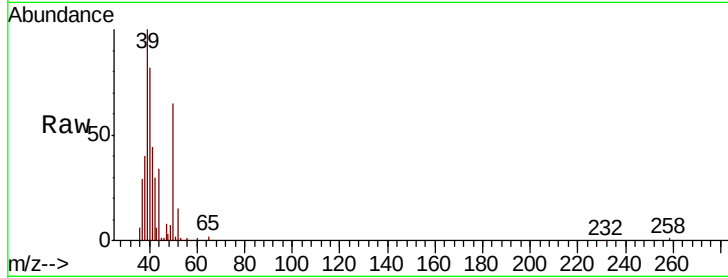
Acq: 23 May 2022 23:05

Tot Ion: 50 Resp: 15147

Ion Ratio Lower Upper

50 100

52 11.4 27.3 40.9#



#6

Bromomethane

Concen: 0.030 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.01 min

Lab File: VL039096.D

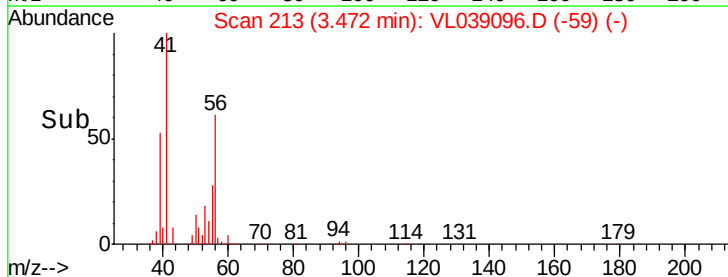
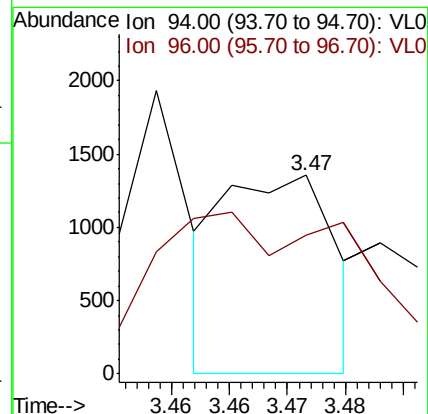
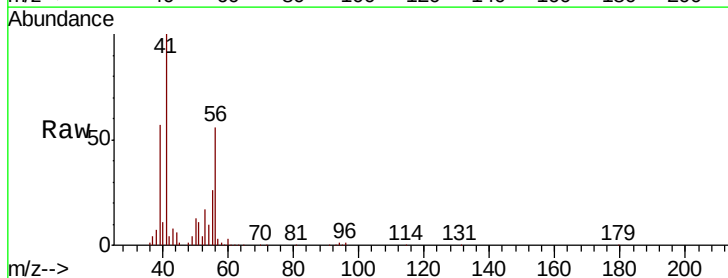
Acq: 23 May 2022 23:05

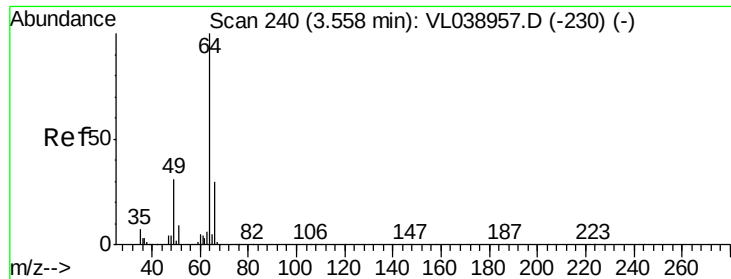
Tgt Ion: 94 Resp: 896

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#





#7

Chloroethane

Concen: 0.054 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

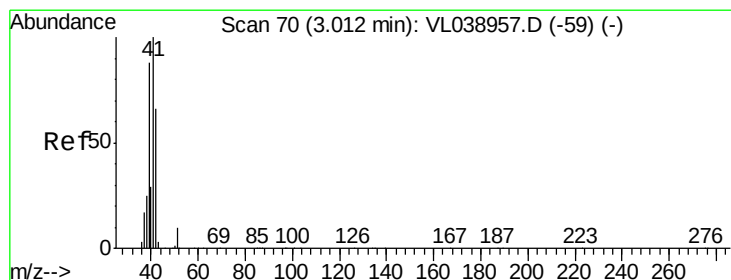
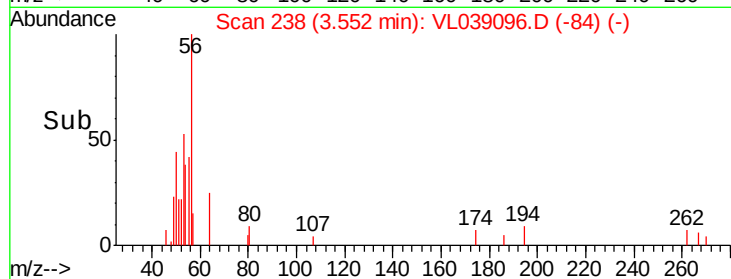
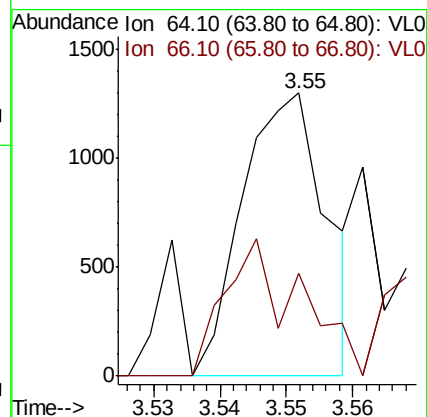
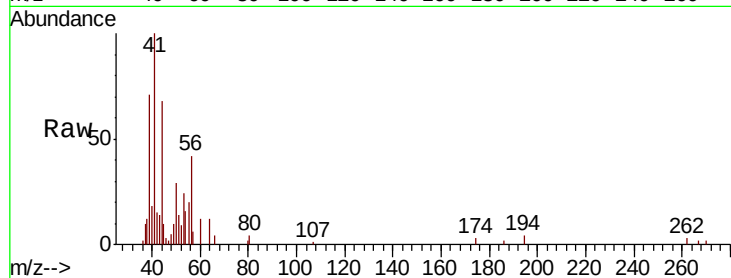
Acq: 23 May 2022 23:05

Tot Ion: 64 Resp: 1142

Ion Ratio Lower Upper

64 100

66 36.3 23.8 35.8#



#9

Propene

Concen: 93.581 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL039096.D

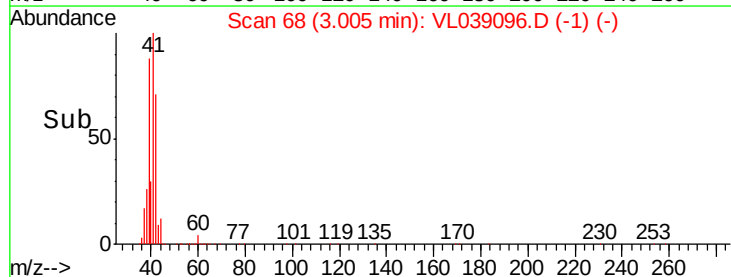
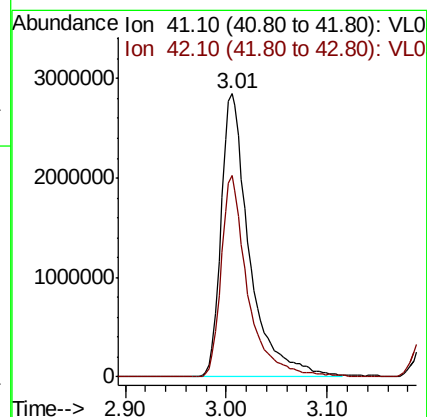
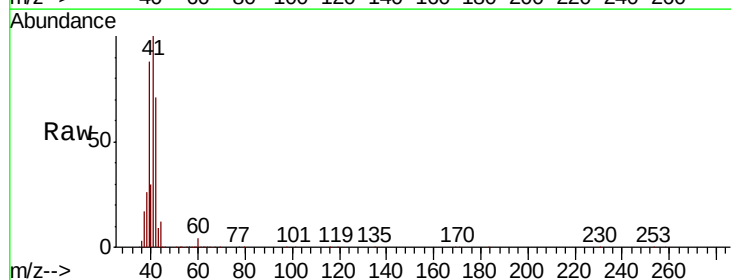
Acq: 23 May 2022 23:05

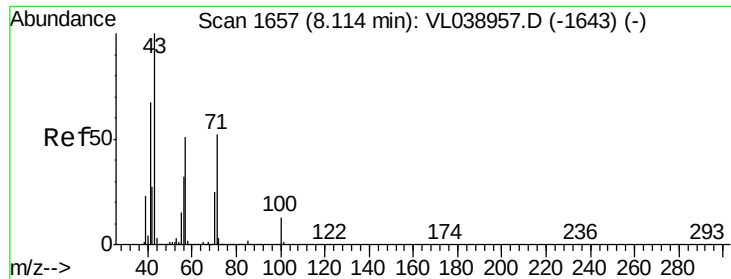
Tgt Ion: 41 Resp: 5602769

Ion Ratio Lower Upper

41 100

42 66.8 58.3 87.5





#10

Heptane

Concen: 22.122 ppbv

RT: 8.10 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

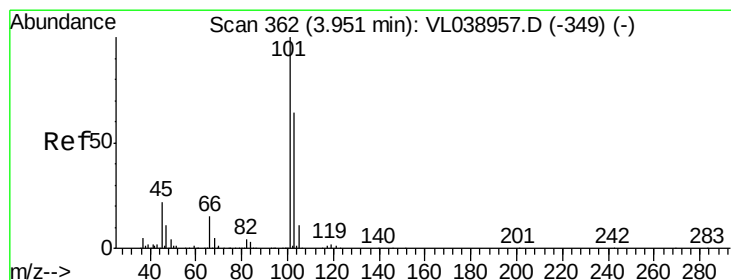
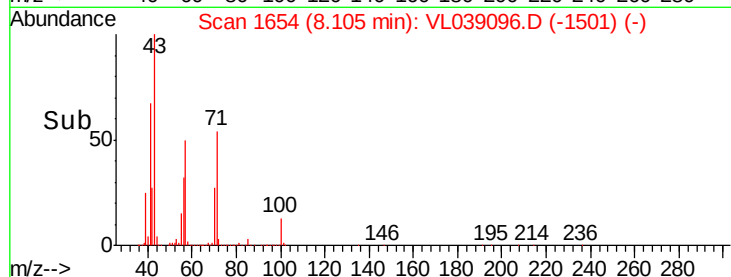
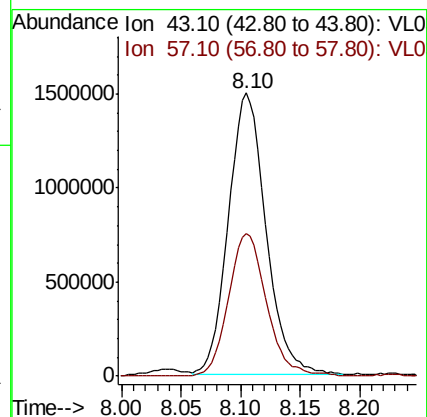
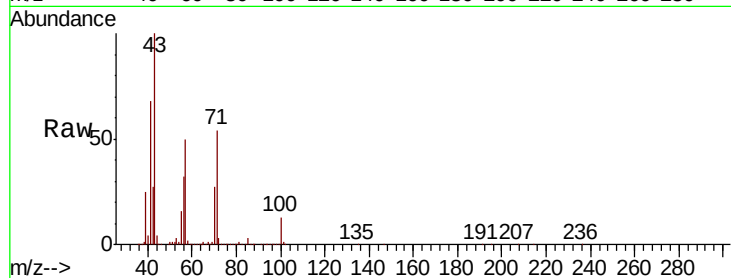
Acq: 23 May 2022 23:05

Tot Ion: 43 Resp: 3249301

Ion Ratio Lower Upper

43 100

57 51.3 40.5 60.7



#11

Trichlorofluoromethane

Concen: 0.370 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL039096.D

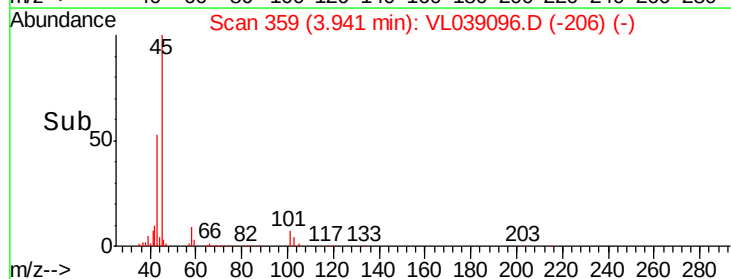
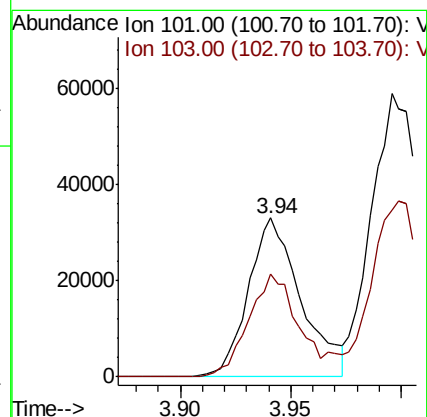
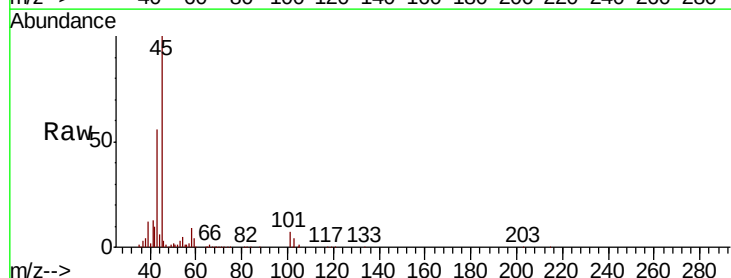
Acq: 23 May 2022 23:05

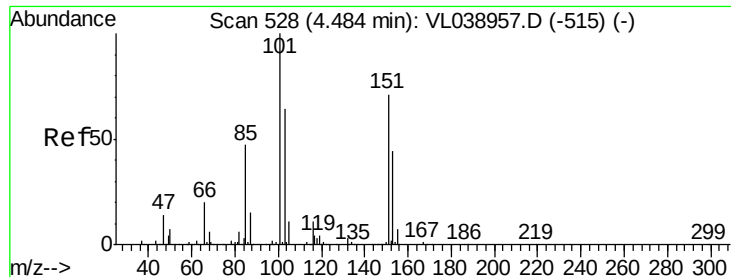
Tgt Ion:101 Resp: 54900

Ion Ratio Lower Upper

101 100

103 63.8 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.047 ppbv

RT: 4.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

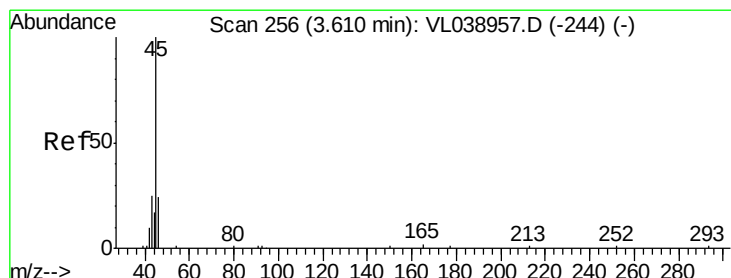
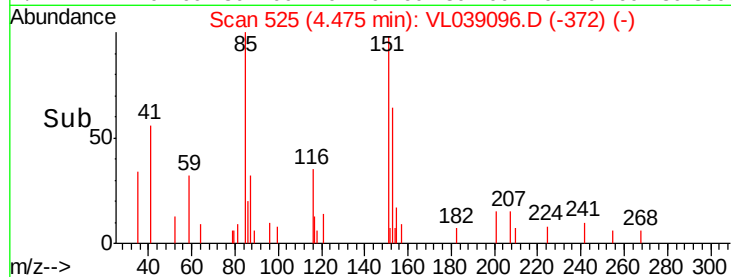
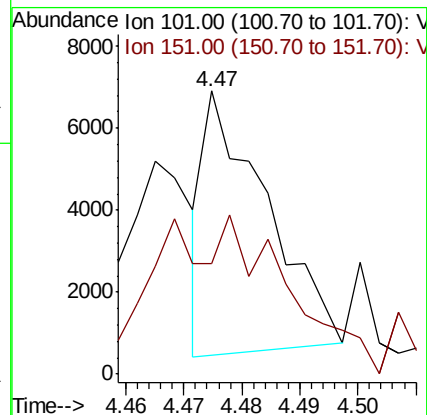
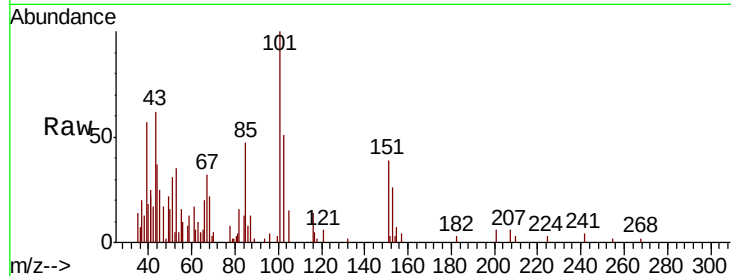
Acq: 23 May 2022 23:05

Tot Ion:101 Resp: 4816

Ion Ratio Lower Upper

101 100

151 148.7 55.4 83.0#



#13

Ethanol

Concen: 100.865 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL039096.D

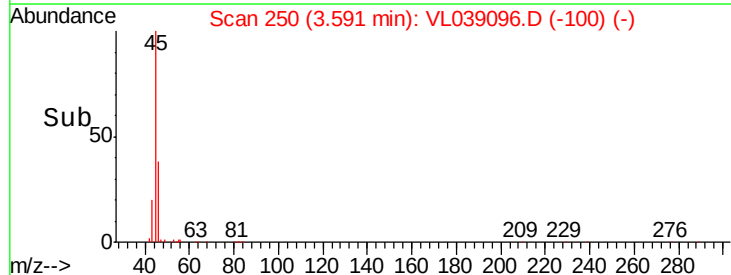
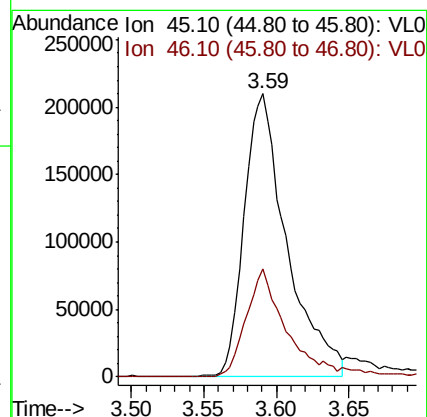
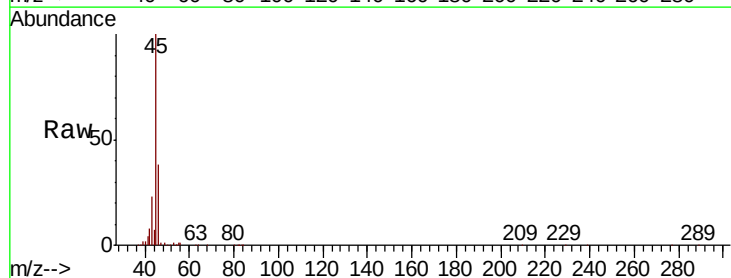
Acq: 23 May 2022 23:05

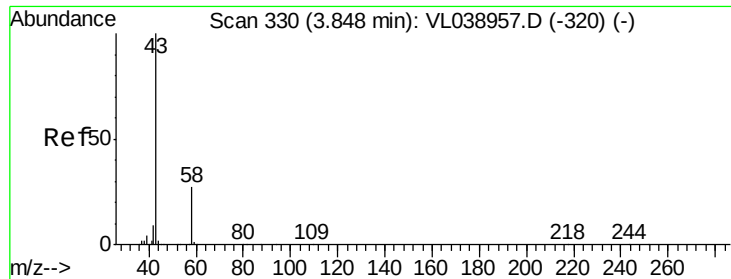
Tgt Ion: 45 Resp: 427356

Ion Ratio Lower Upper

45 100

46 38.5 18.0 72.2





#15

Acetone

Concen: 161.149 ppbv

RT: 3.83 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

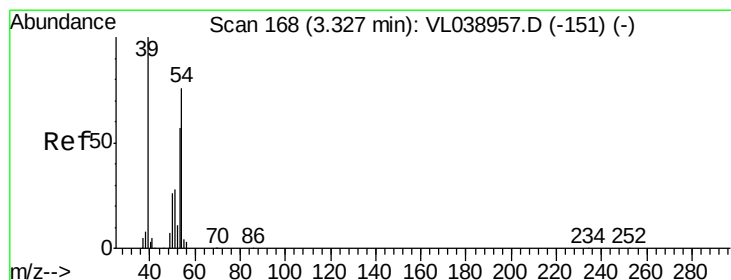
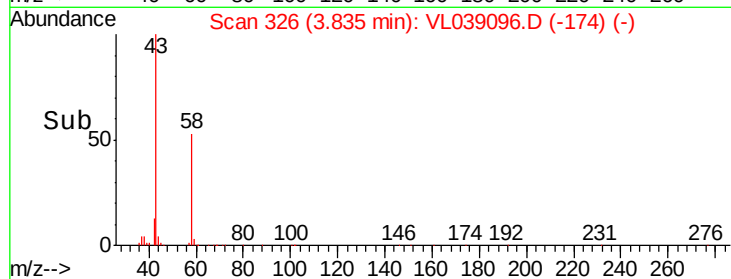
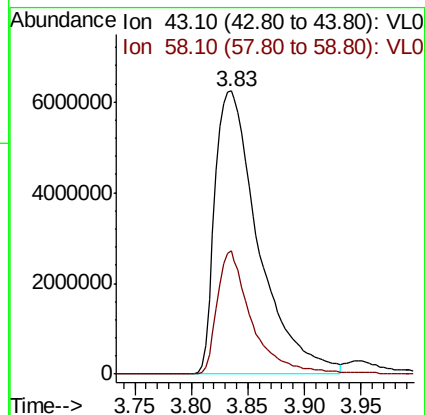
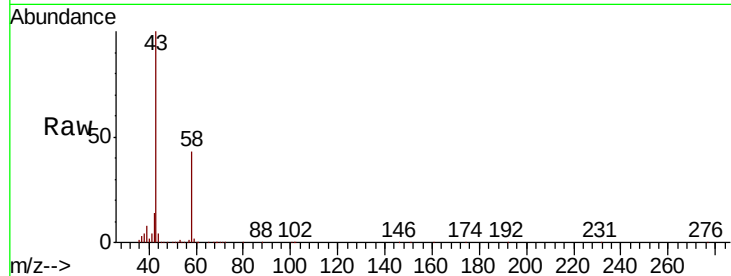
Acq: 23 May 2022 23:05

Tot Ion: 43 Resp:16794790

Ion Ratio Lower Upper

43 100

58 35.1 21.3 31.9#



#16

1,3-Butadiene

Concen: 54.927 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.03 min

Lab File: VL039096.D

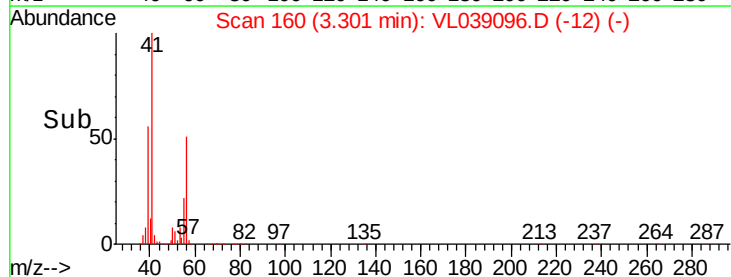
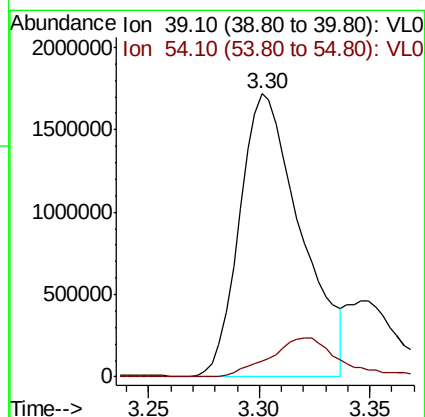
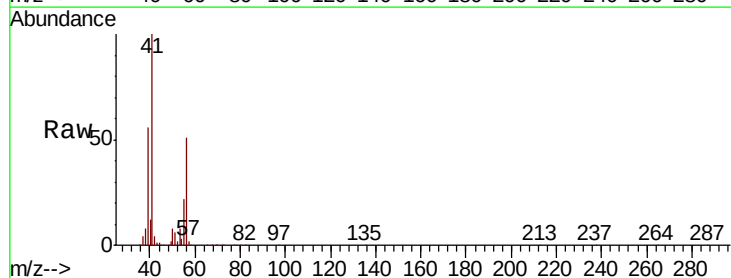
Acq: 23 May 2022 23:05

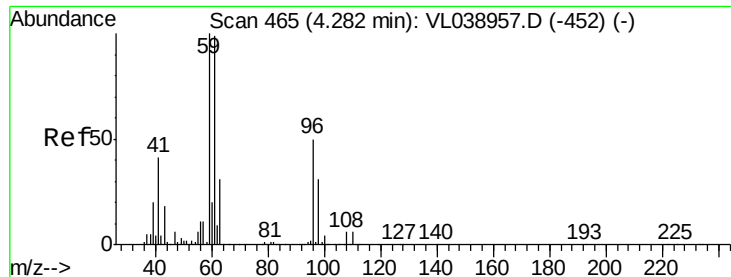
Tgt Ion: 39 Resp: 3288876

Ion Ratio Lower Upper

39 100

54 16.1 65.2 97.8#





#17

tert-Butyl alcohol

Concen: 8.193 ppbv

RT: 4.28 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VP-1

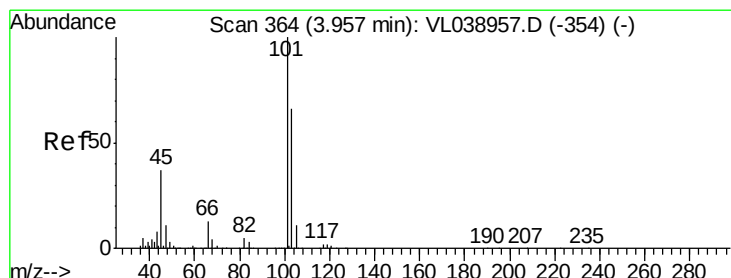
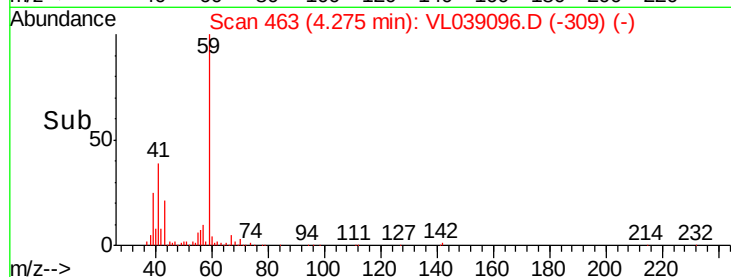
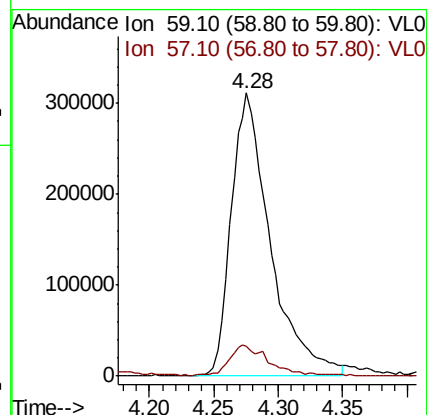
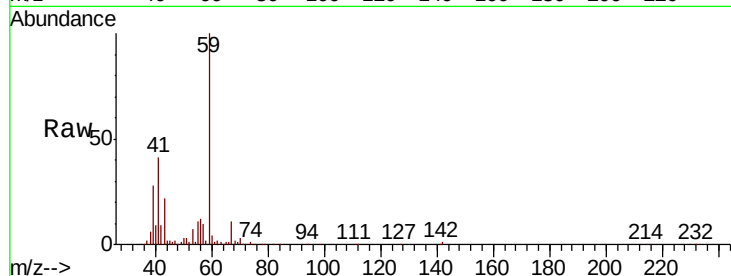
Acq: 23 May 2022 23:05

Tot Ion: 59 Resp: 656266

Ion Ratio Lower Upper

59 100

57 10.5 9.2 13.8



#19

Isopropyl Alcohol

Concen: 27.657 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL039096.D

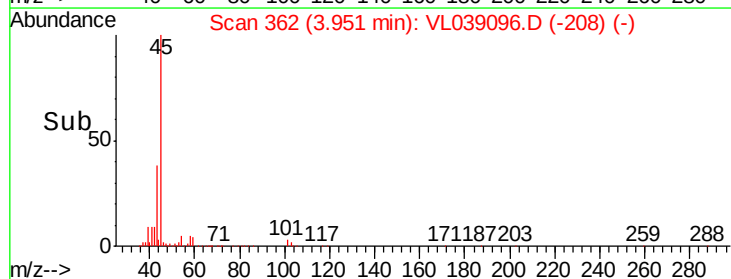
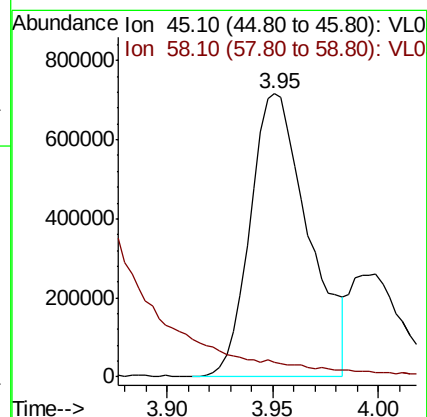
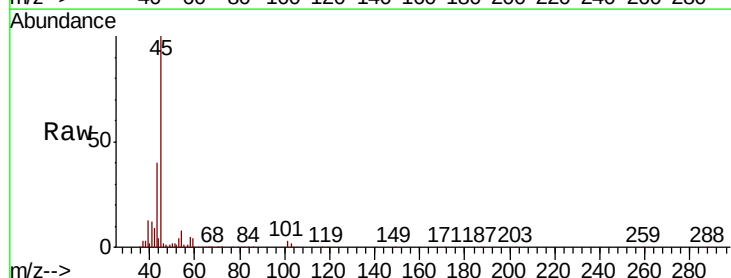
Acq: 23 May 2022 23:05

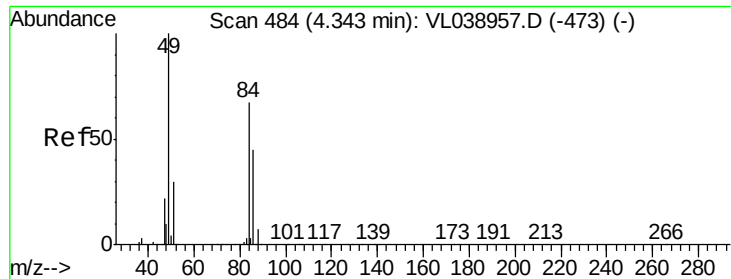
Tgt Ion: 45 Resp: 1370482

Ion Ratio Lower Upper

45 100

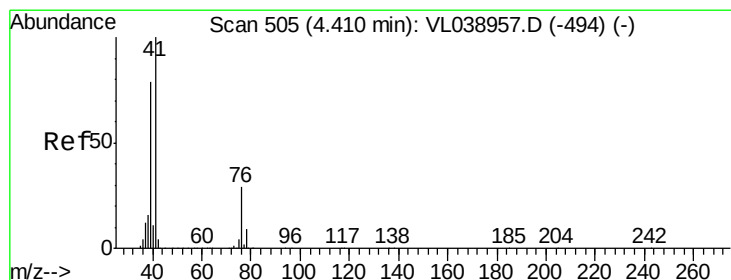
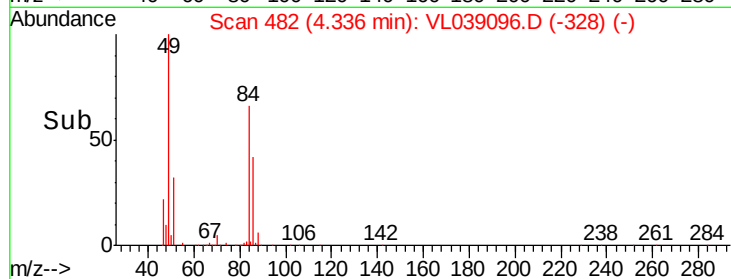
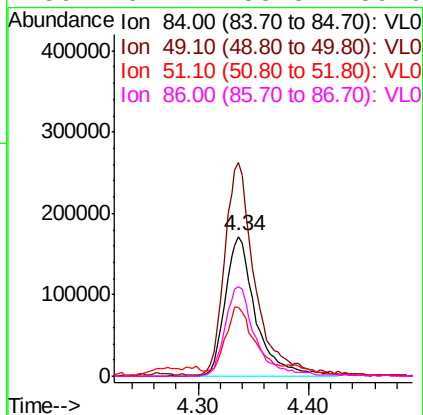
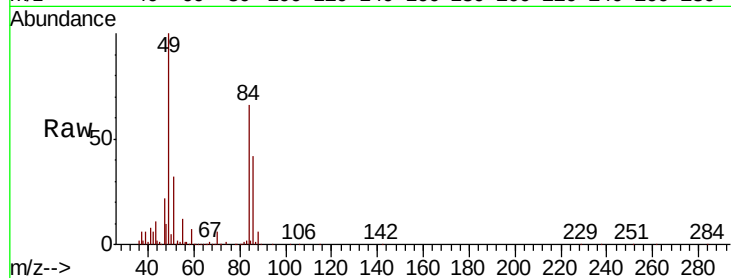
58 0.0 1.4 2.2#





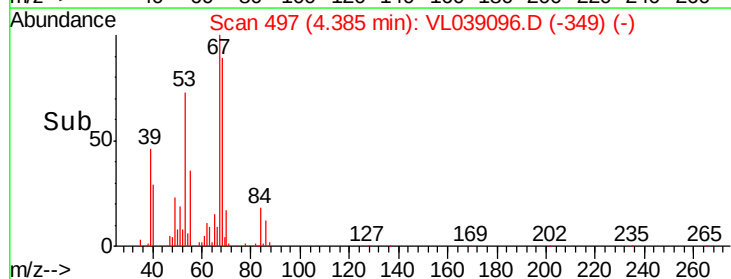
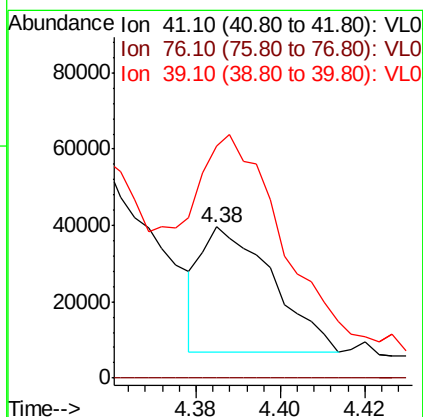
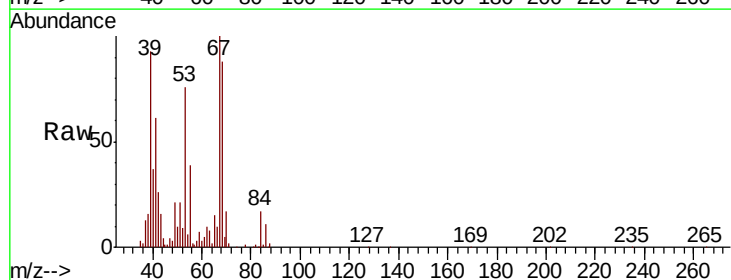
#20
Methvlene Chloride
Concen: 8.391 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
VP-1
Acq: 23 May 2022 23:05

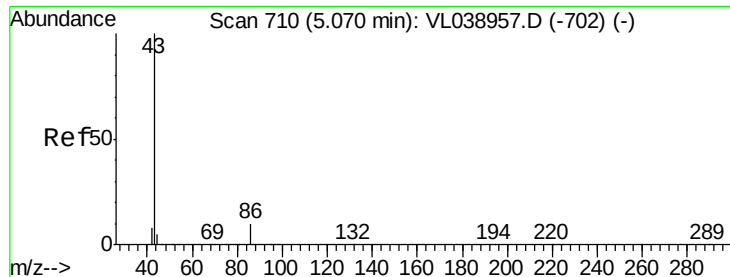
Tot Ion:	84	Resp:	329586
Ion	Ratio	Lower	Upper
84	100		
49	151.3	119.9	179.9
51	47.6	35.7	53.5
86	64.2	53.8	80.6



#21
Allyl Chloride
Concen: 0.541 ppbv
RT: 4.38 min Scan# 497
Delta R.T. -0.03 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

Tgt Ion:	41	Resp:	38404
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.4#
39	269.1	63.8	95.8#





#23

Vinyl Acetate

Concen: 3.618 ppbv

RT: 5.04 Instrument: MSVOA_1

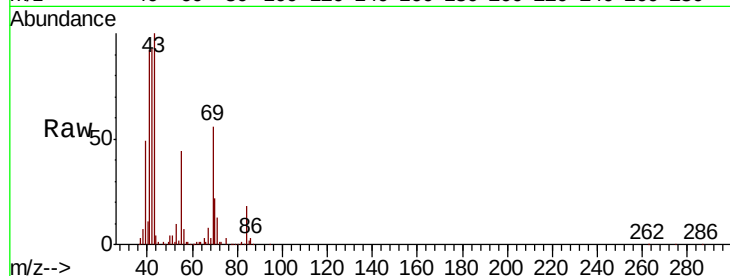
Delta R.T. 0.00 min

Lab File: ClientSampleId: VP-1

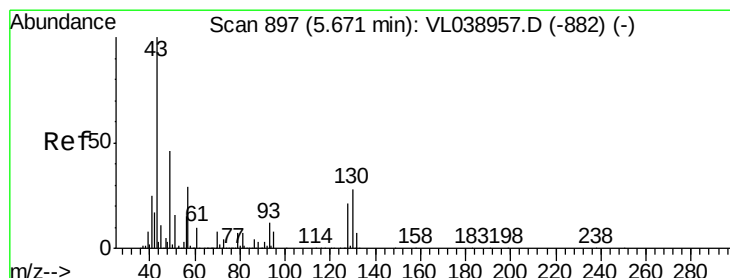
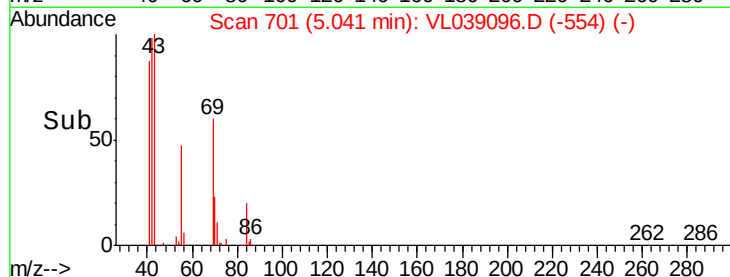
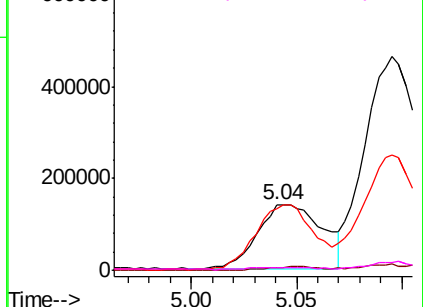
Acq: 23 May 2022 23:05

Tot Ion: 43 Resp: 298306

Ion	Ratio	Lower	Upper
43	100		
86	3.5	6.6	9.8#
42	93.9	8.1	12.1#
44	2.7	3.5	5.3#



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: 2.999 ppbv

RT: 5.67 min Scan# 898

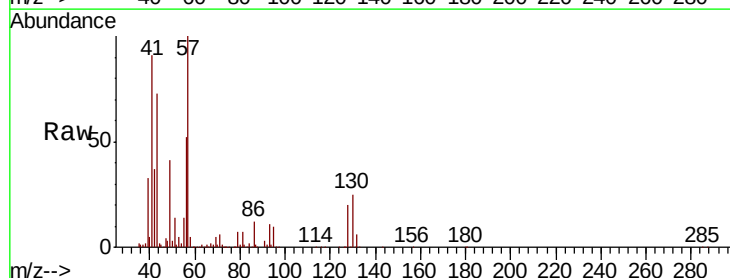
Delta R.T. 0.00 min

Lab File: VL039096.D

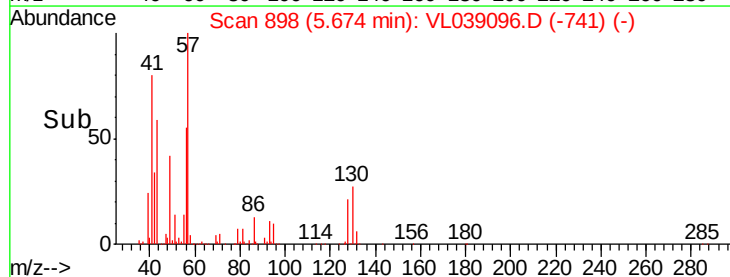
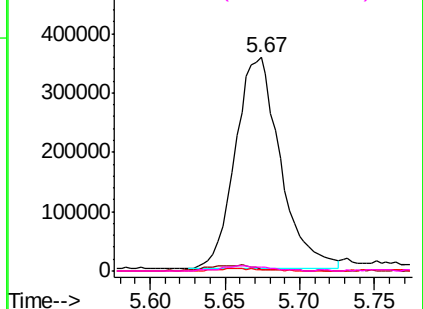
Acq: 23 May 2022 23:05

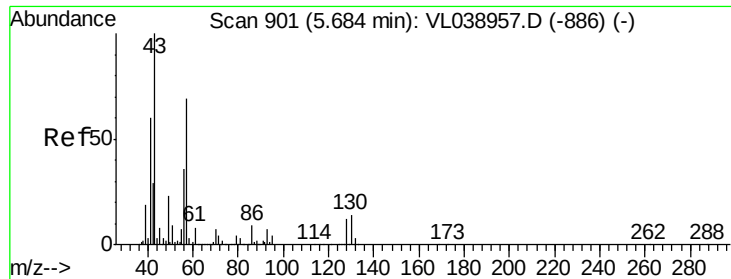
Tgt Ion: 43 Resp: 748159

Ion	Ratio	Lower	Upper
43	100		
45	3.2	8.1	12.1#
61	1.4	7.8	11.6#
70	2.9	5.6	8.4#



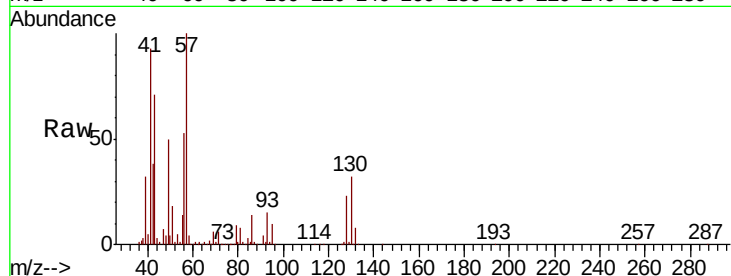
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



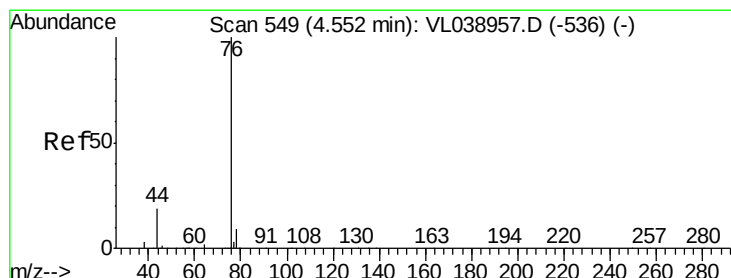
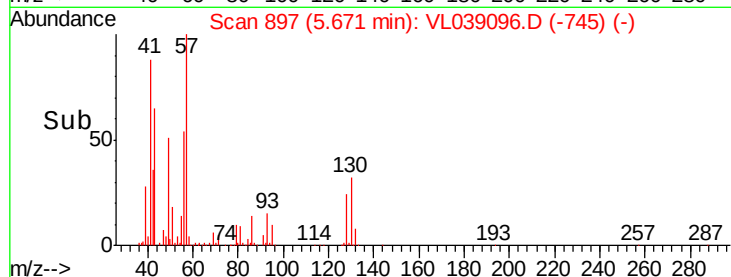
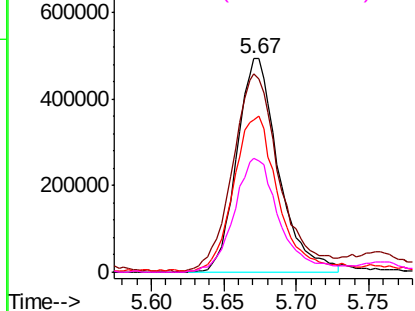


#26
Hexane
Concen: 8.875 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VP-1
Acq: 23 May 2022 23:05

Tot Ion:	57	Resp:	983686
Ion	Ratio	Lower	Upper
57	100		
41	103.6	75.2	112.8
43	77.9	190.8	286.2#
56	58.1	43.0	64.6

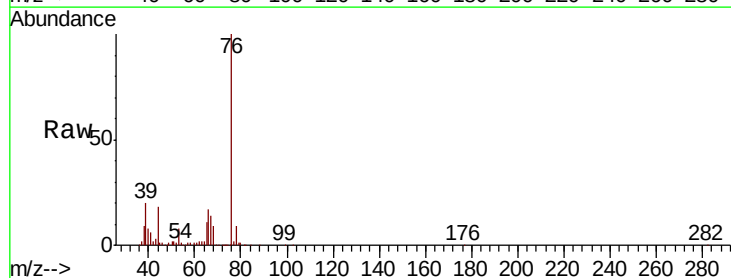


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

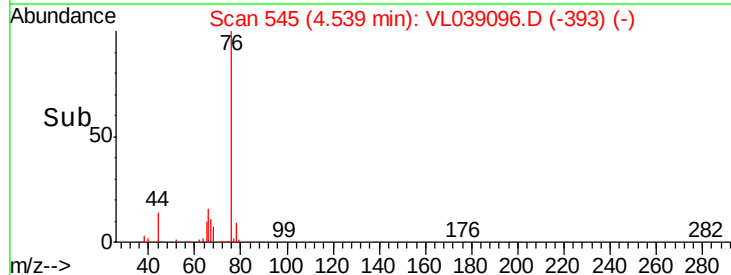
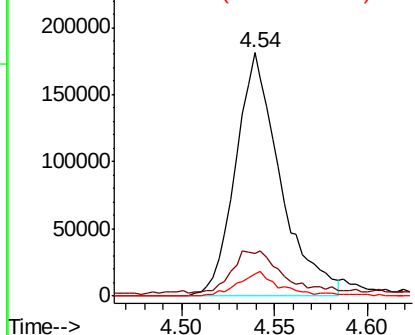


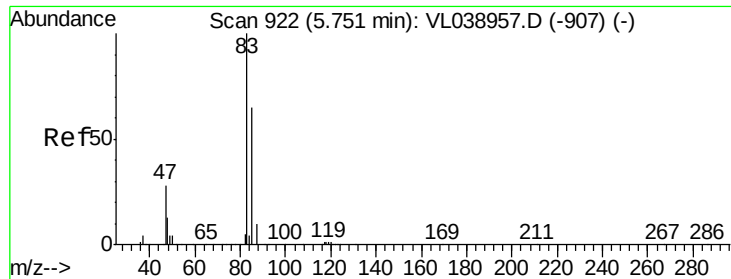
#27
Carbon Disulfide
Concen: 2.885 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

Tgt Ion:	76	Resp:	303732
Ion	Ratio	Lower	Upper
76	100		
44	23.2	15.3	22.9#
78	10.0	8.2	12.2



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





#29

Chloroform

Concen: 0.382 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

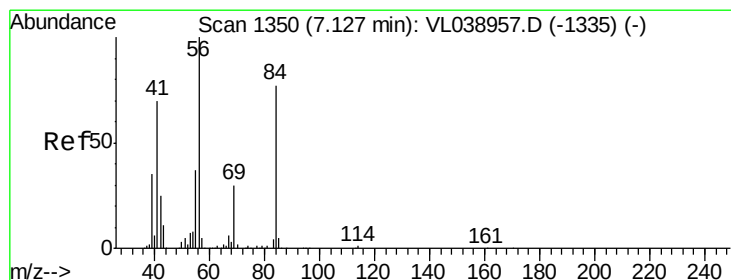
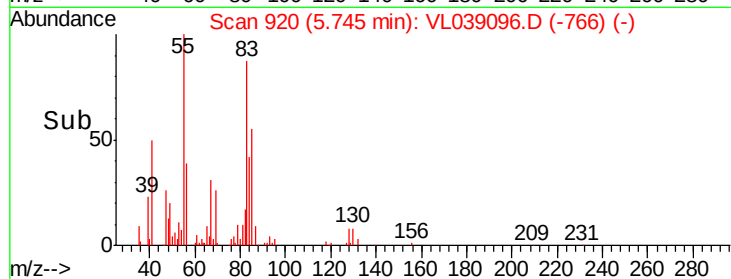
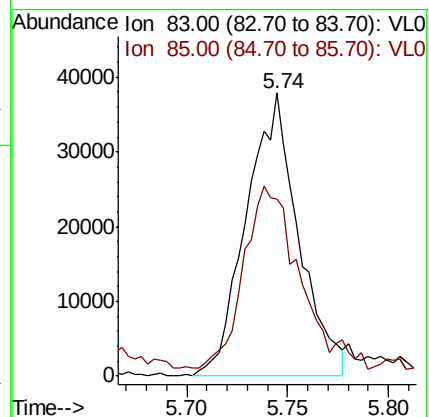
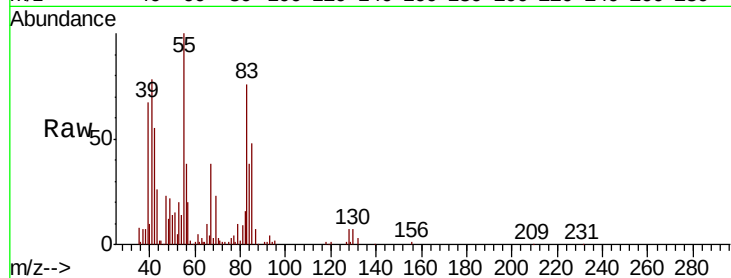
Acq: 23 May 2022 23:05

Tot Ion: 83 Resp: 68536

Ion Ratio Lower Upper

83 100

85 59.7 51.8 77.6



#30

Cyclohexane

Concen: 0.575 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.01 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

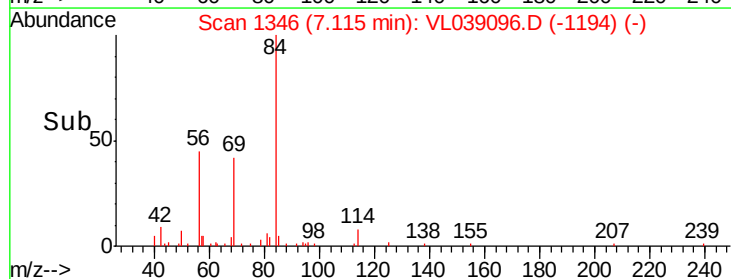
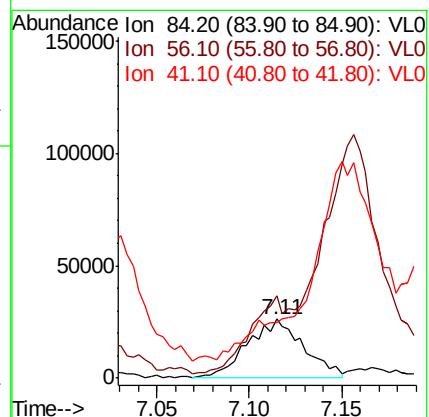
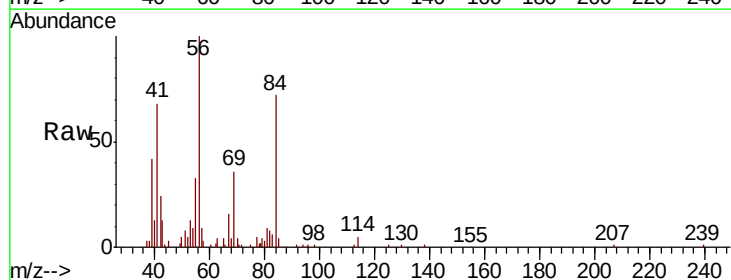
Tgt Ion: 84 Resp: 53383

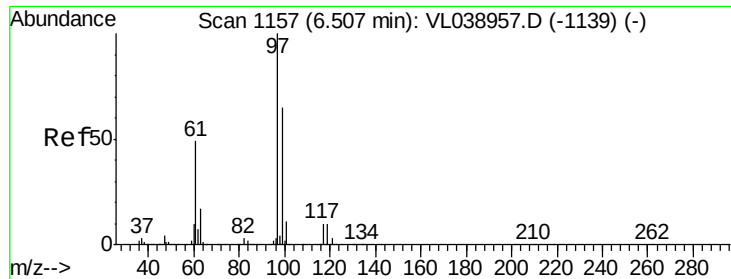
Ion Ratio Lower Upper

84 100

56 0.0 115.3 172.9#

41 0.0 72.0 108.0#





#32

1,1,1-Trichloroethane

Concen: 0.111 ppbv

RT: 6.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 May 2022 23:05

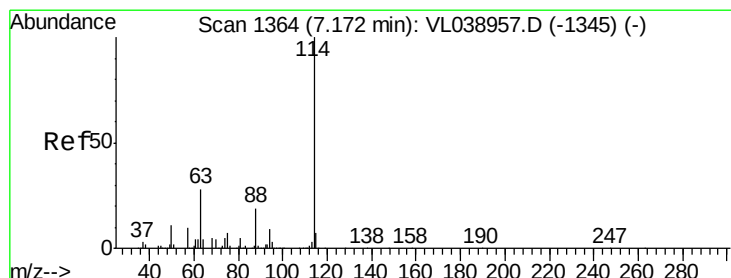
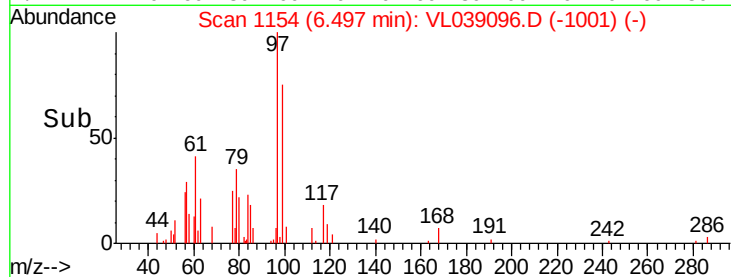
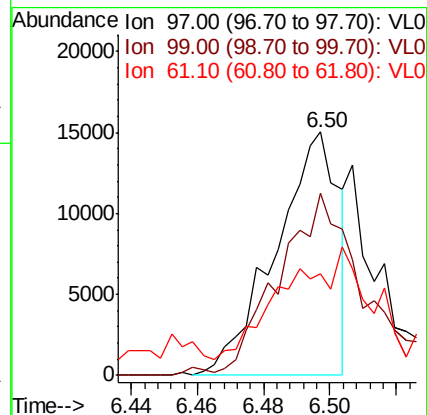
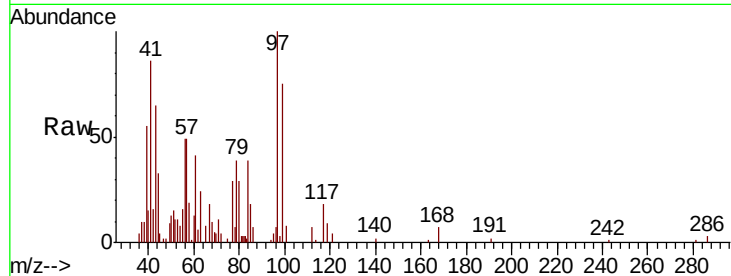
Tot Ion: 97 Resp: 19922

Ion Ratio Lower Upper

97 100

99 105.7 51.9 77.9#

61 0.0 40.9 61.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

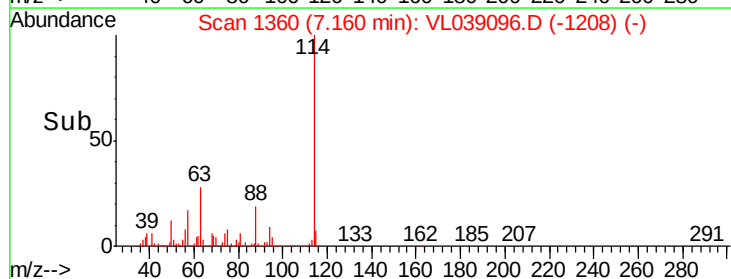
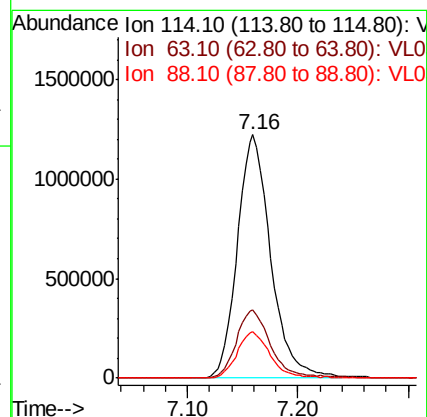
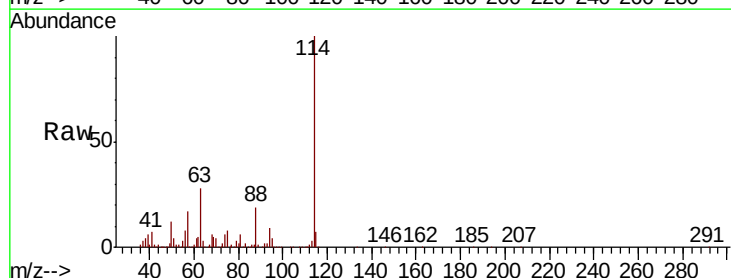
Tgt Ion: 114 Resp: 2563928

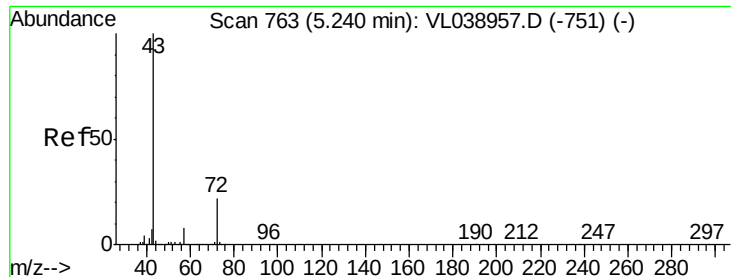
Ion Ratio Lower Upper

114 100

63 29.2 22.6 33.8

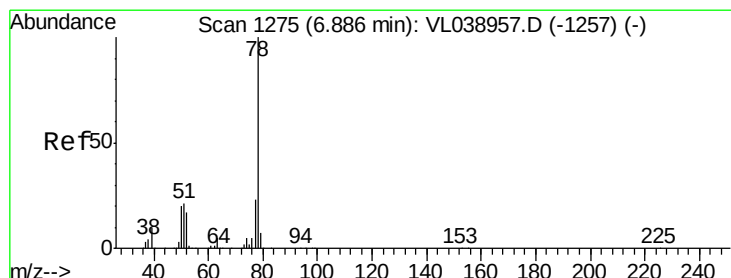
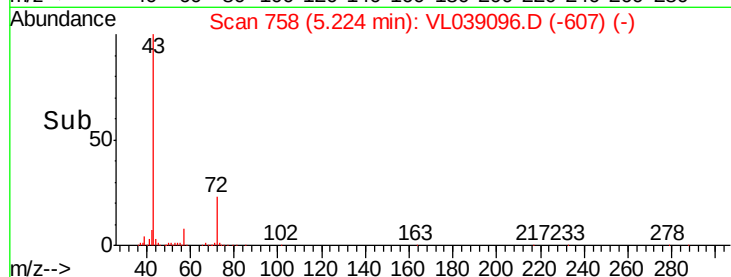
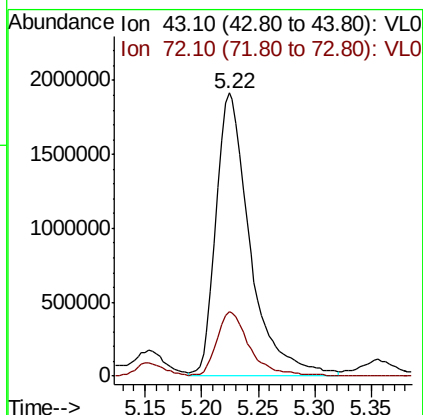
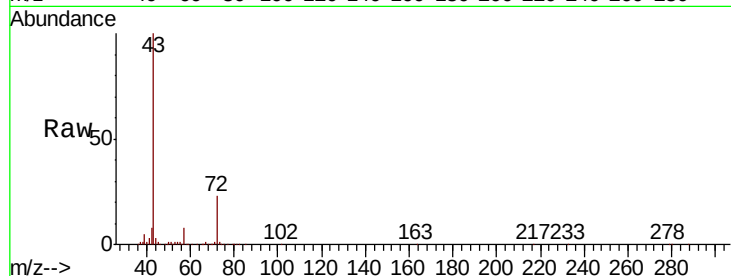
88 18.9 15.4 23.0





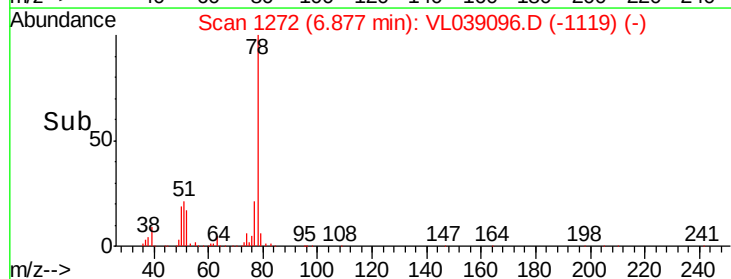
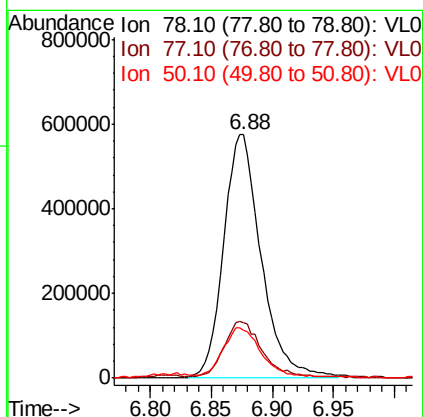
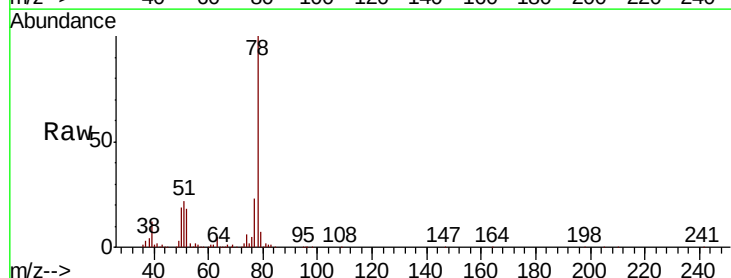
#34
2-Butanone
Concen: 30.445 ppbv
RT: 5.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 23:05

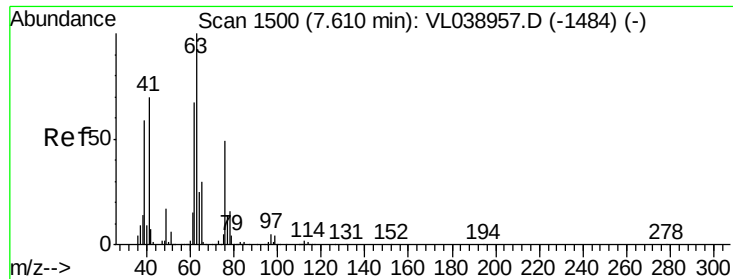
Tot Ion: 43 Resp: 3982303
Ion Ratio Lower Upper
43 100
72 22.5 17.8 26.6



#36
Benzene
Concen: 5.591 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

Tgt Ion: 78 Resp: 1226751
Ion Ratio Lower Upper
78 100
77 22.1 18.6 28.0
50 18.8 15.6 23.4





#39

1,2-Dichloropropane

Concen: 0.109 ppbv

RT: 7.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 May 2022 23:05

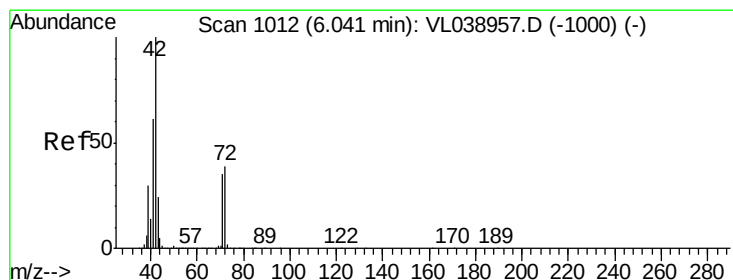
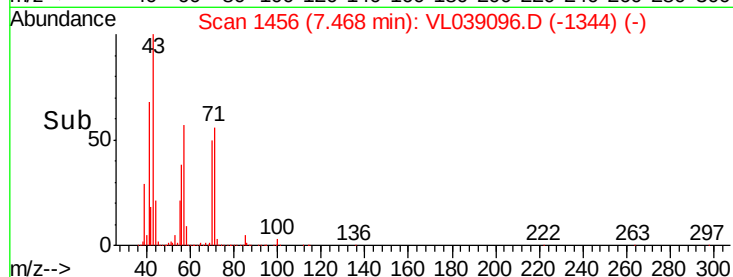
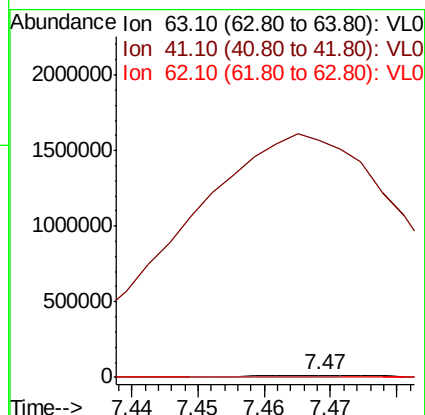
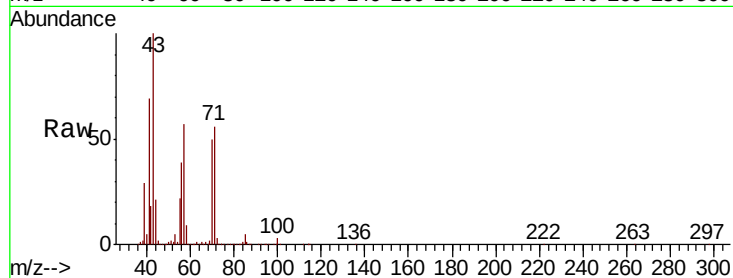
Tot Ion: 63 Resp: 9298

Ion Ratio Lower Upper

63 100

41 7322.7 55.9 83.9#

62 20.0 53.8 80.6#



#41

Tetrahydrofuran

Concen: 15.511 ppbv

RT: 6.02 min Scan# 1007

Delta R.T. -0.02 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

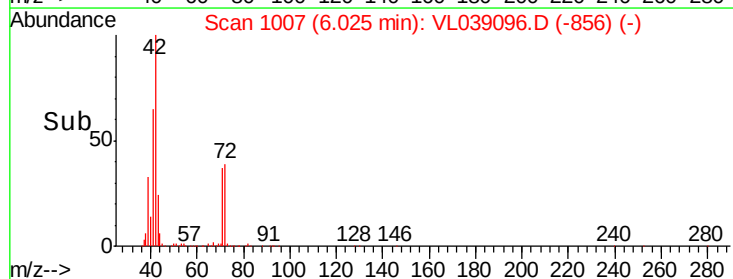
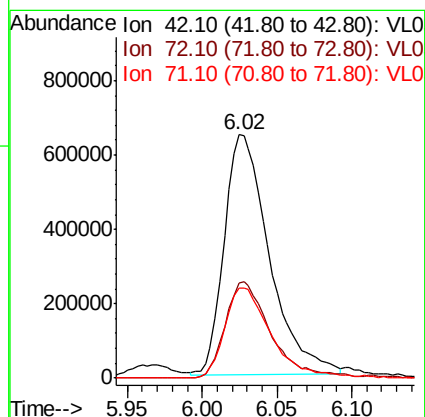
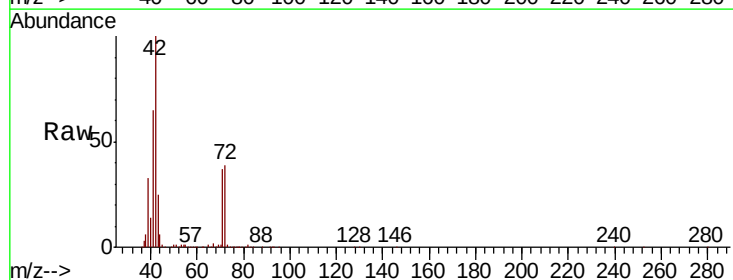
Tgt Ion: 42 Resp: 1363614

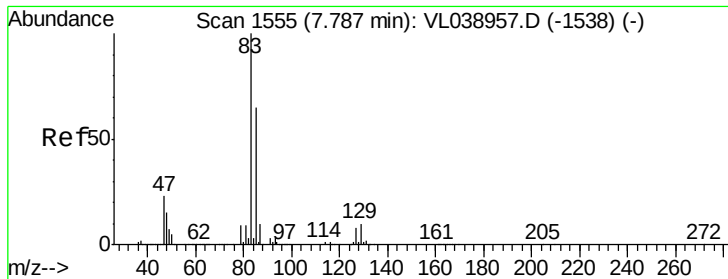
Ion Ratio Lower Upper

42 100

72 41.2 31.8 47.6

71 39.3 30.6 45.8





#42

Bromodichloromethane

Concen: 0.090 ppbv

RT: 7.78 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 May 2022 23:05

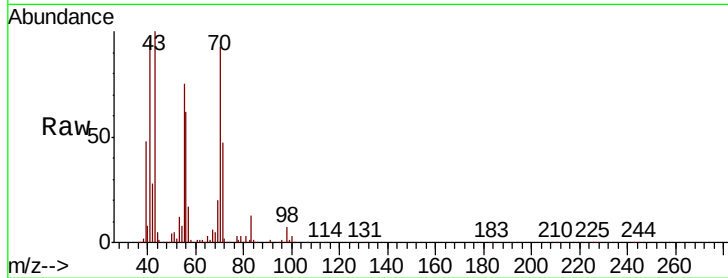
Tot Ion: 83 Resp: 16701

Ion Ratio Lower Upper

83 100

85 0.0 52.0 78.0#

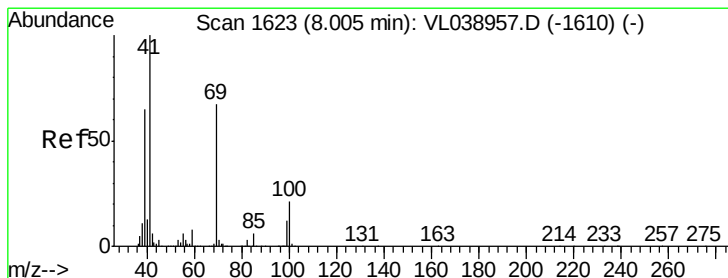
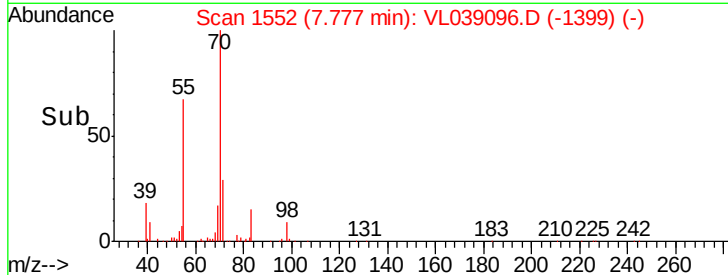
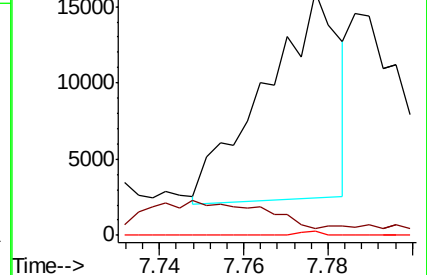
127 2.3 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.096 ppbv

RT: 8.00 min Scan# 1620

Delta R.T. -0.01 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

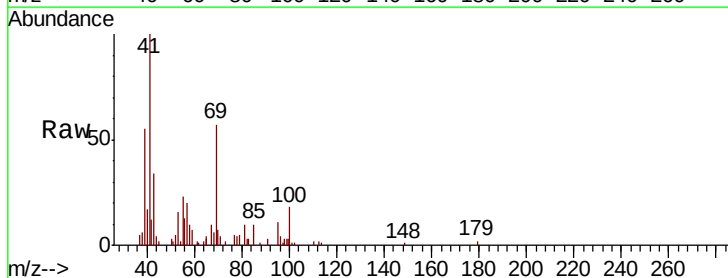
Tgt Ion: 69 Resp: 8564

Ion Ratio Lower Upper

69 100

41 0.0 121.9 182.9#

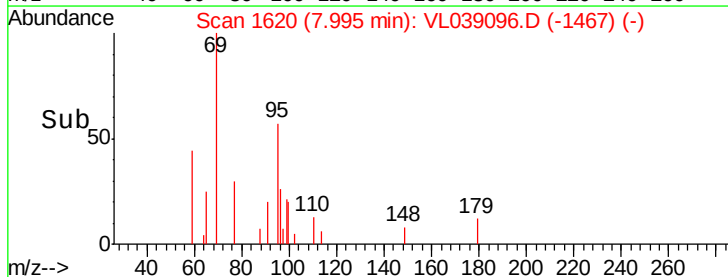
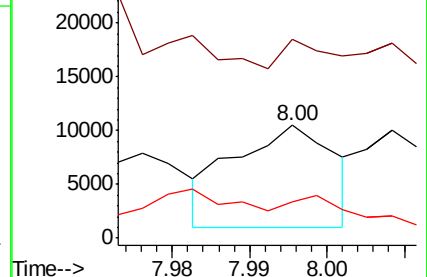
100 0.0 24.6 36.8#

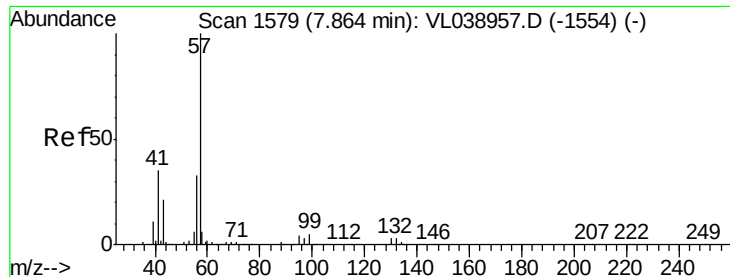


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.579 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 May 2022 23:05

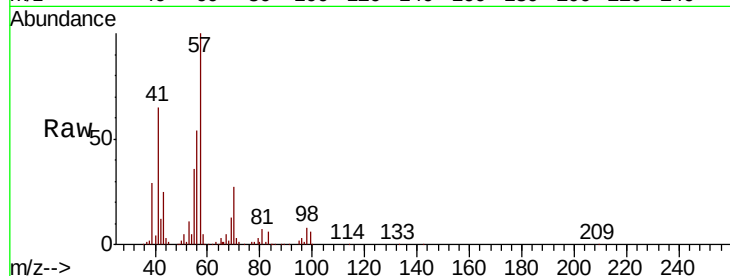
Tot Ion: 57 Resp: 223032

Ion Ratio Lower Upper

57 100

41 0.0 26.3 39.5#

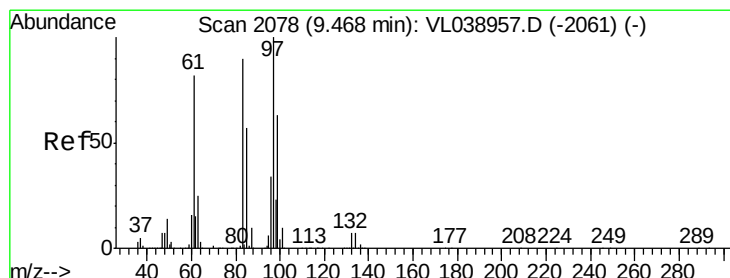
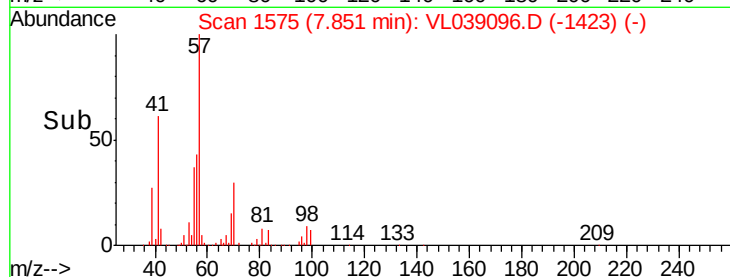
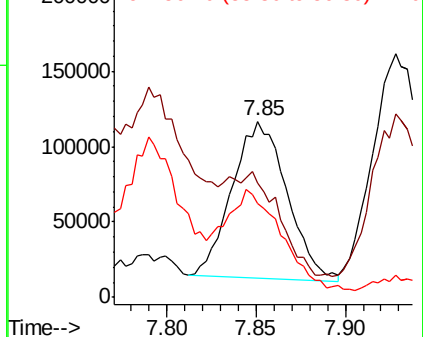
56 67.3 24.6 37.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.226 ppbv

RT: 9.44 min Scan# 2070

Delta R.T. -0.03 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

Tgt Ion: 97 Resp: 20067

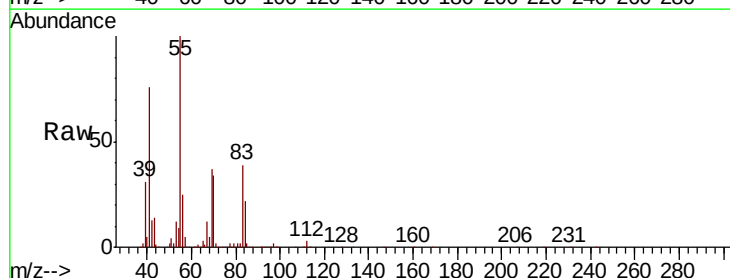
Ion Ratio Lower Upper

97 100

83 1850.7 72.0 108.0#

85 64.9 45.7 68.5

99 3.0 50.2 75.4#

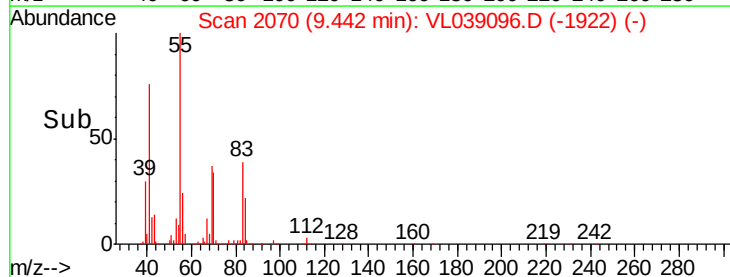
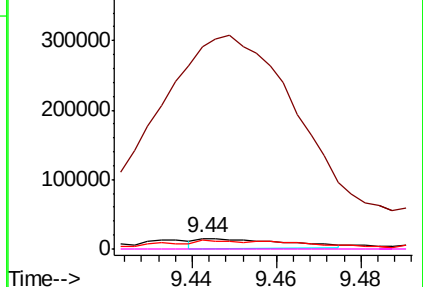


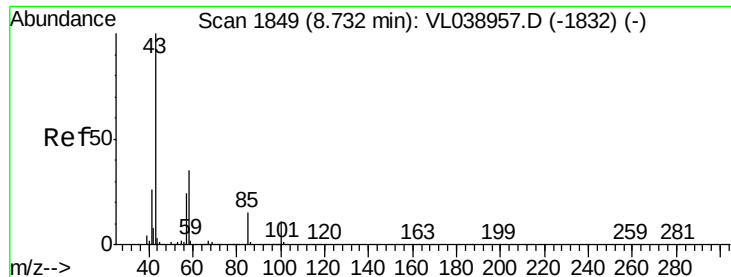
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

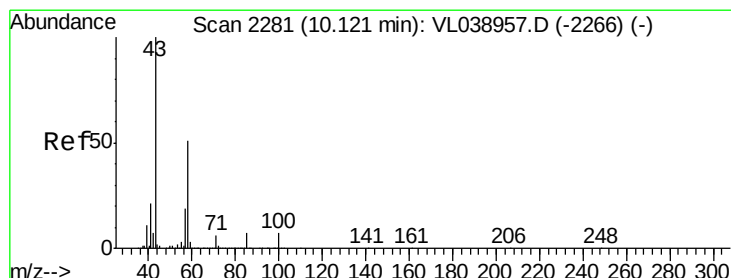
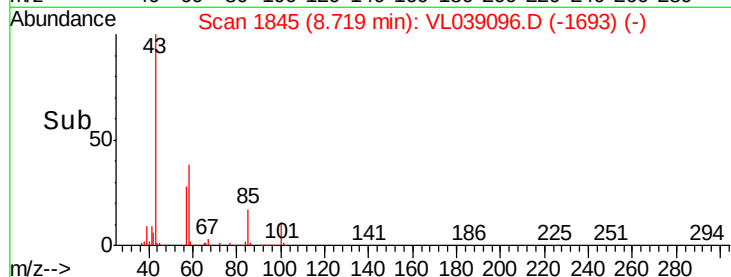
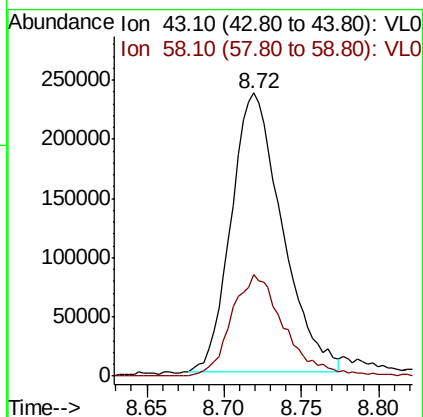
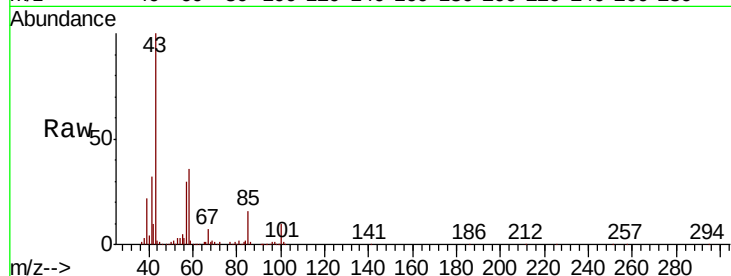
Ion 99.00 (98.70 to 99.70): VL0





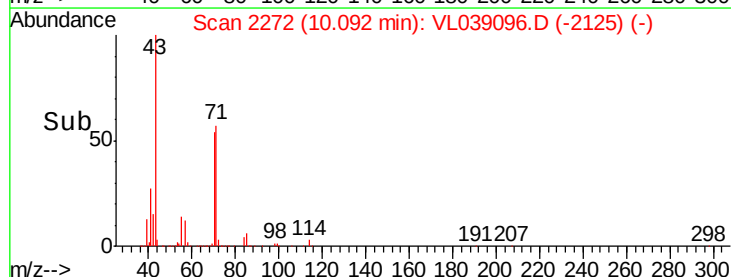
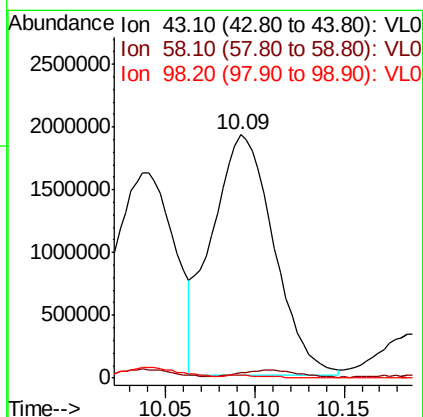
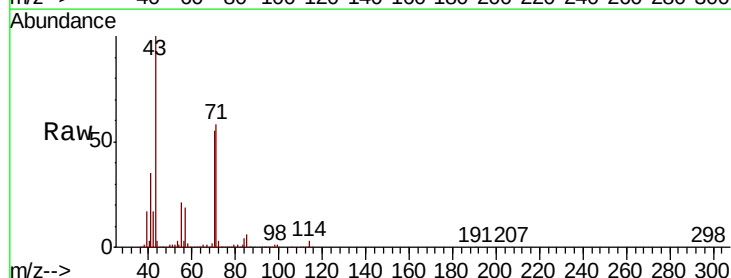
#50
 4-Methyl-2-Pentanone
 Concen: 2.360 ppbv
 RT: 8.72
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VP-1
 Acq: 23 May 2022 23:05

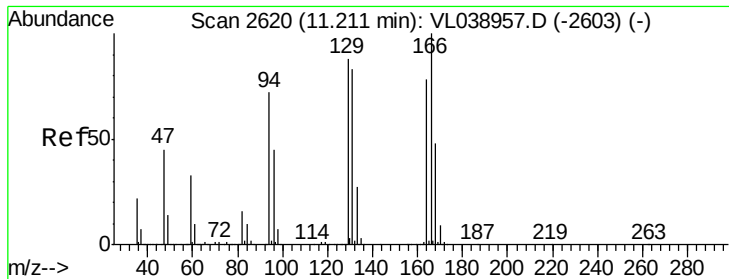
Tot Ion: 43 Resp: 541348
 Ion Ratio Lower Upper
 43 100
 58 38.1 28.4 42.6



#51
 2-Hexanone
 Concen: 27.608 ppbv
 RT: 10.09 min Scan# 2272
 Delta R.T. -0.03 min
 Lab File: VL039096.D
 Acq: 23 May 2022 23:05

Tgt Ion: 43 Resp: 4621696
 Ion Ratio Lower Upper
 43 100
 58 3.4 39.3 58.9#
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 2.261 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 May 2022 23:05

Tot Ion:164 Resp: 177321

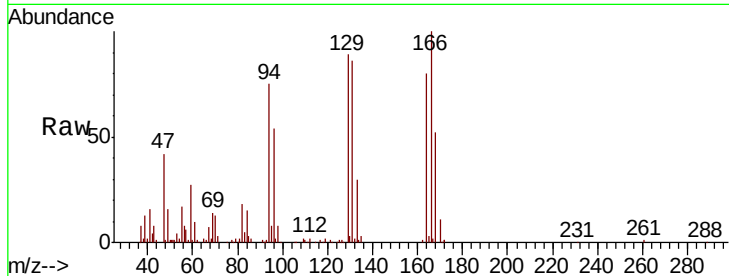
Ion Ratio Lower Upper

164 100

166 125.9 102.5 153.7

129 110.7 90.1 135.1

131 107.8 84.8 127.2

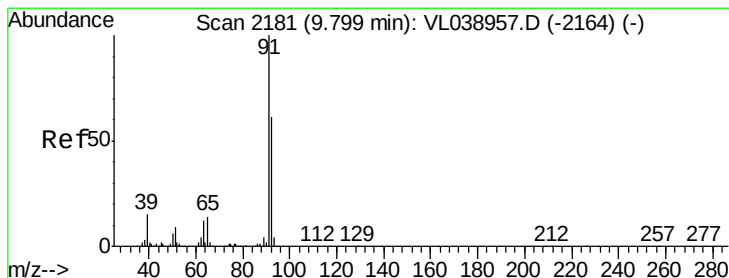
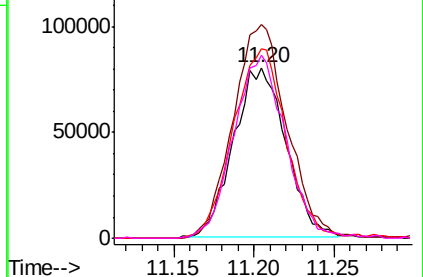
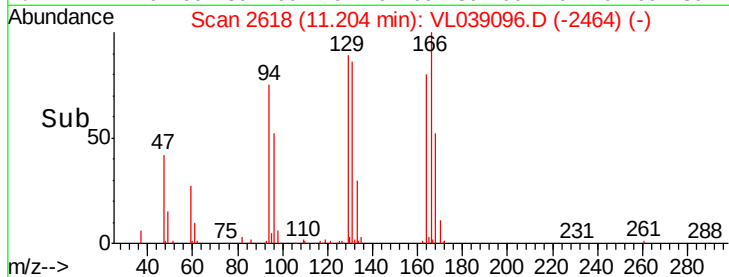


Abundance Ion 163.90 (163.60 to 164.60): V

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: 7.157 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL039096.D

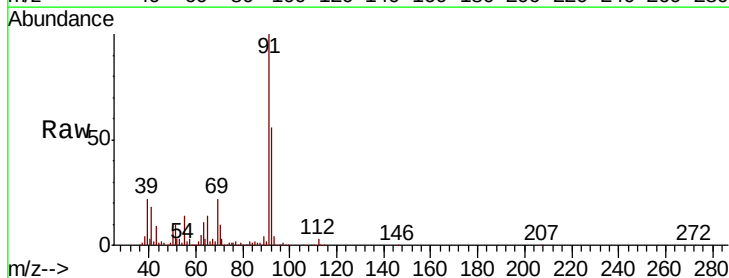
Acq: 23 May 2022 23:05

Tgt Ion: 91 Resp: 1760159

Ion Ratio Lower Upper

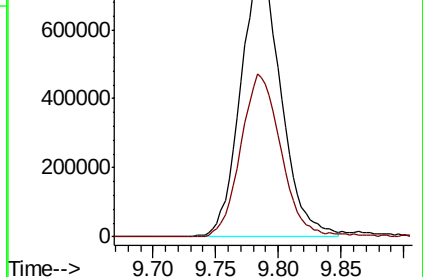
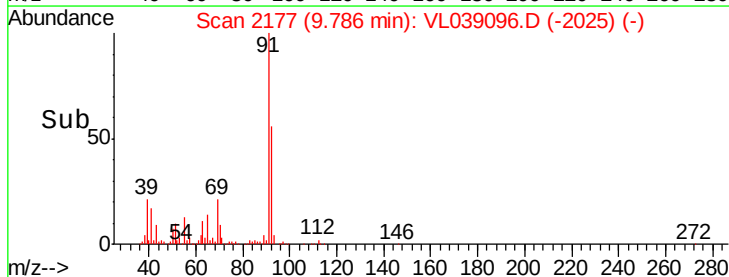
91 100

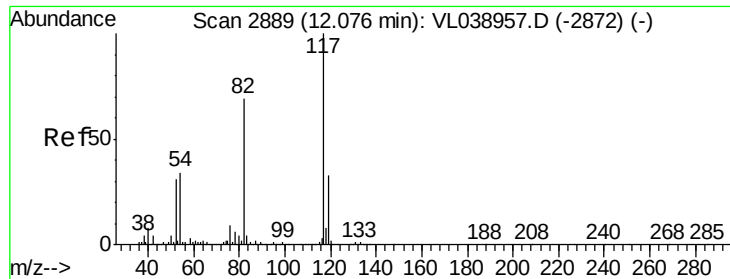
92 60.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

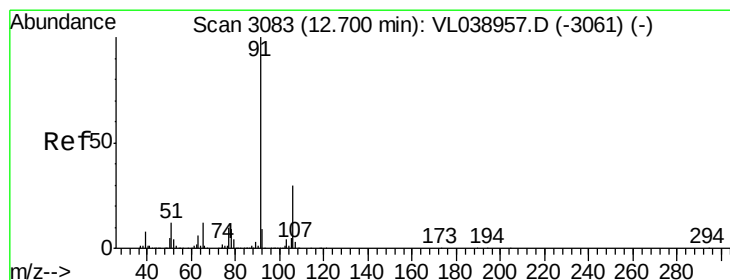
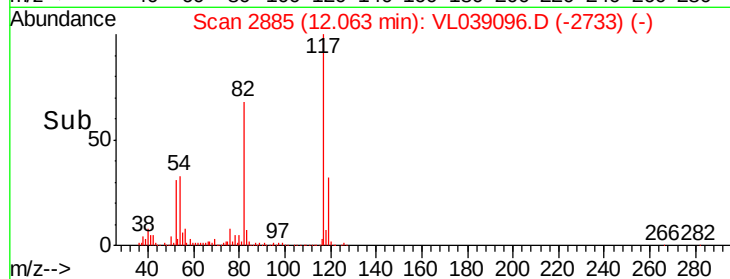
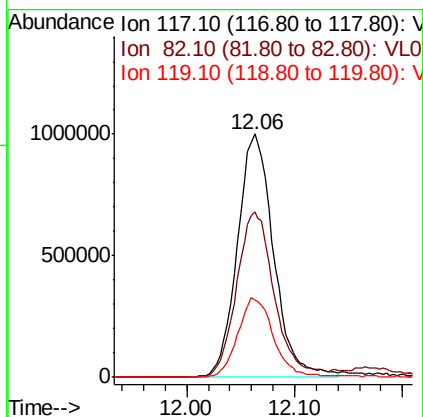
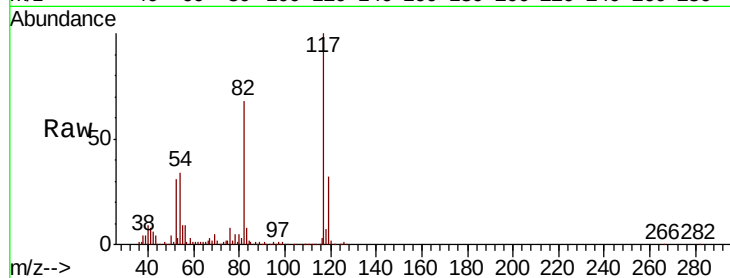




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
VP-1
Acq: 23 May 2022 23:05

Tot Ion:117 Resp: 2347092

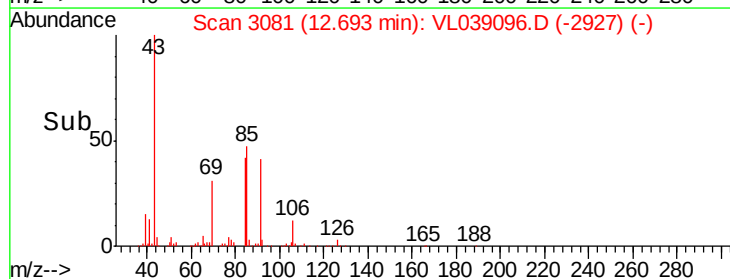
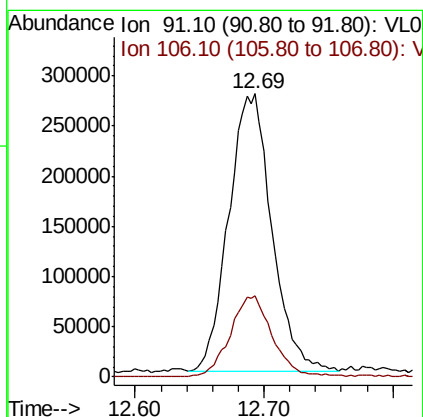
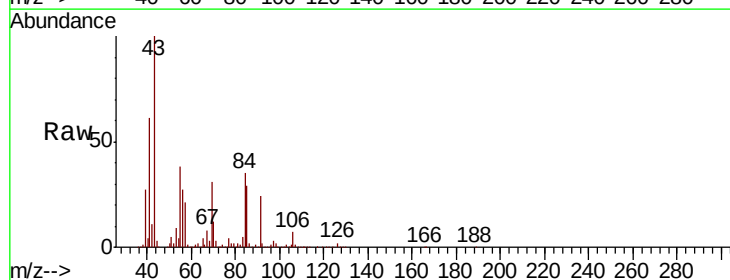
Ion	Ratio	Lower	Upper
117	100		
82	70.6	57.0	85.6
119	33.1	27.2	40.8

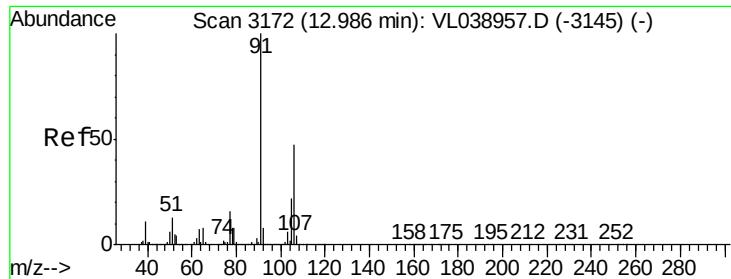


#58
Ethyl Benzene
Concen: 1.899 ppbv
RT: 12.69 min Scan# 3081
Delta R.T.: -0.01 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

Tgt Ion: 91 Resp: 641584

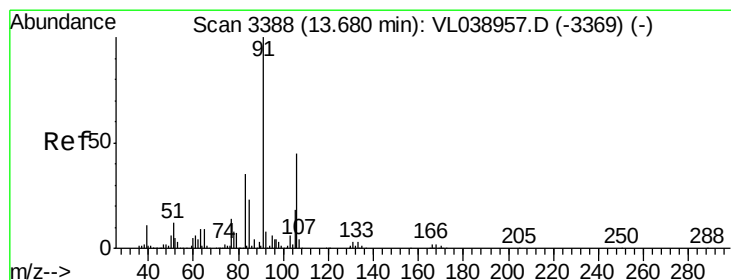
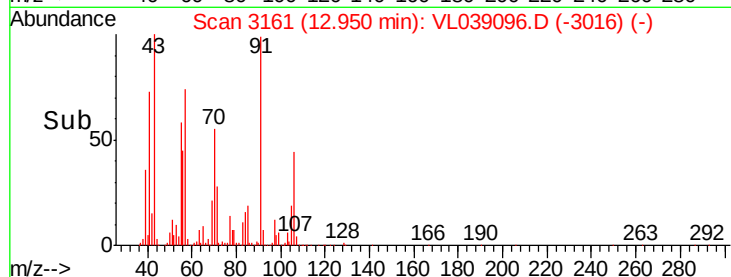
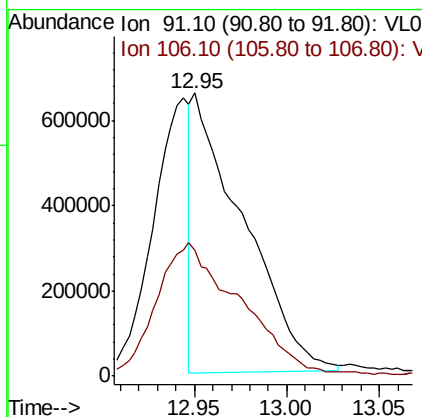
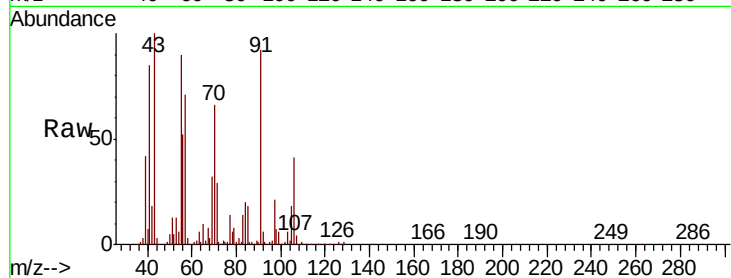
Ion	Ratio	Lower	Upper
91	100		
106	29.0	24.2	36.4





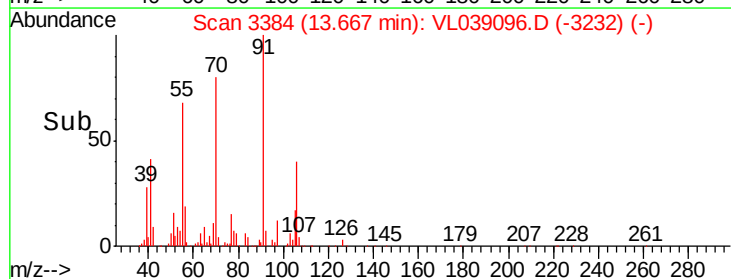
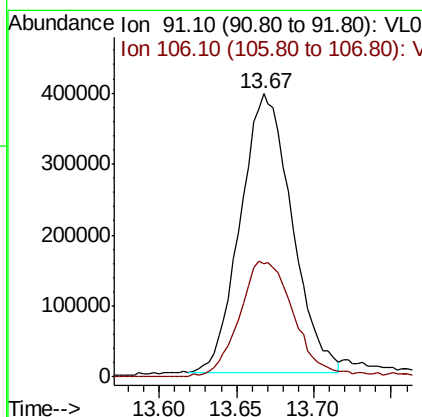
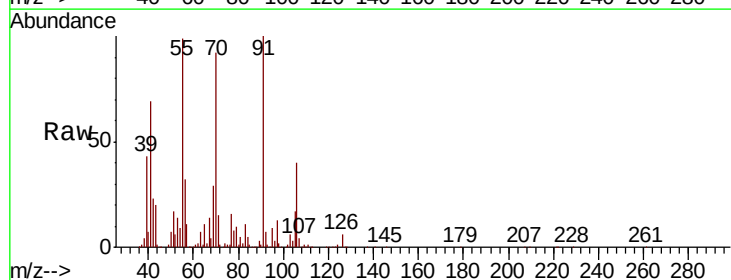
#59
m/p-Xylene
Concen: 4.289 ppbv
RT: 12.95
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 23:05

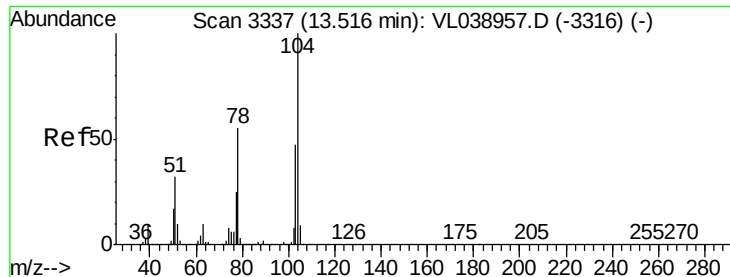
Tot Ion: 91 Resp: 1236831
Ion Ratio Lower Upper
91 100
106 82.5 34.6 52.0#



#60
o-Xylene
Concen: 3.339 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.01 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

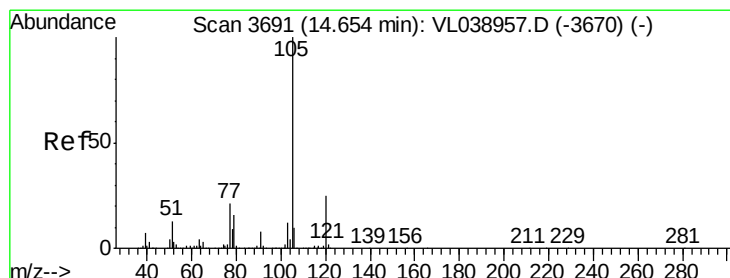
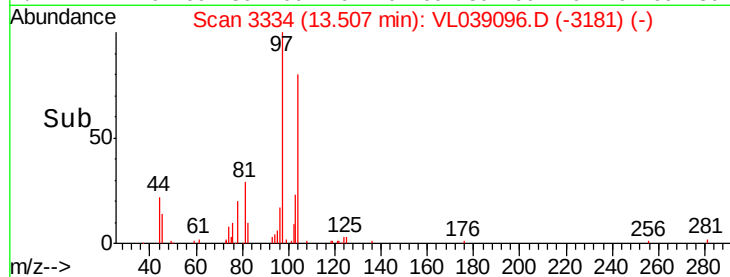
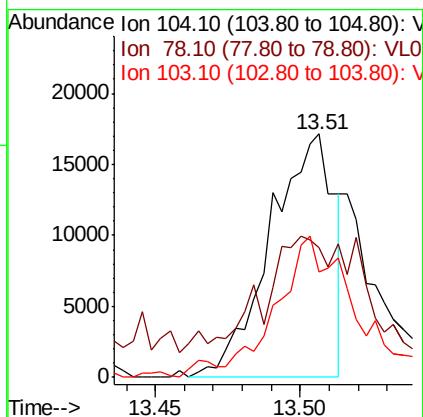
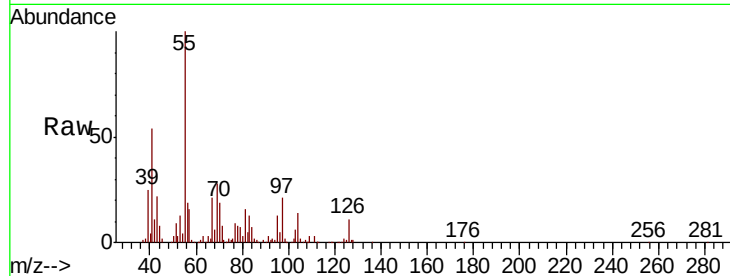
Tgt Ion: 91 Resp: 906162
Ion Ratio Lower Upper
91 100
106 45.4 22.2 66.6





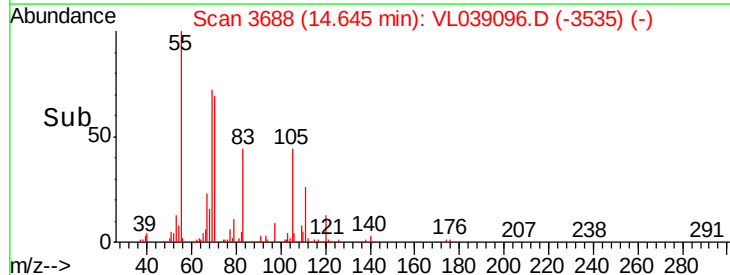
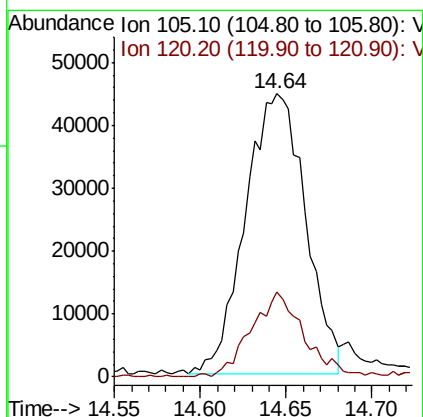
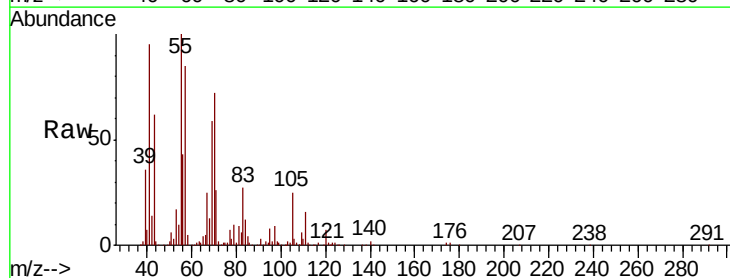
#61
Stvrene
Concen: 0.181 ppbv
RT: 13.51 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 23:05

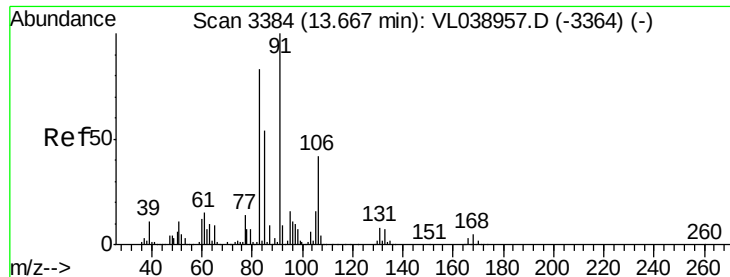
Tot Ion:104 Resp: 26242
Ion Ratio Lower Upper
104 100
78 77.5 46.4 69.6#
103 75.7 39.3 58.9#



#62
Isopropylbenzene
Concen: 0.272 ppbv
RT: 14.64 min Scan# 3688
Delta R.T.: -0.01 min
Lab File: VL039096.D
Acq: 23 May 2022 23:05

Tgt Ion:105 Resp: 107901
Ion Ratio Lower Upper
105 100
120 27.3 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.085 ppbv

RT: 13.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 May 2022 23:05

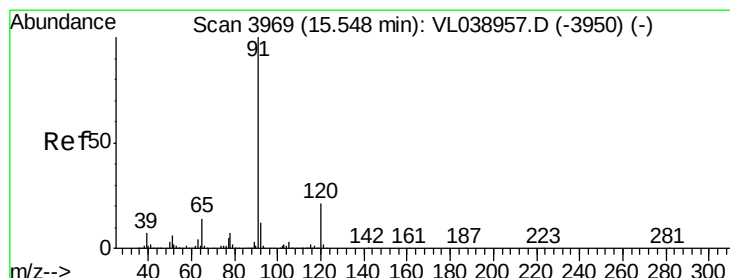
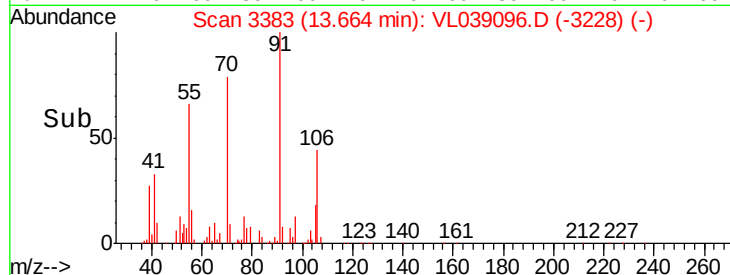
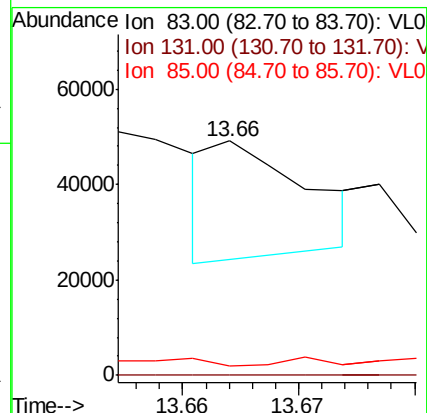
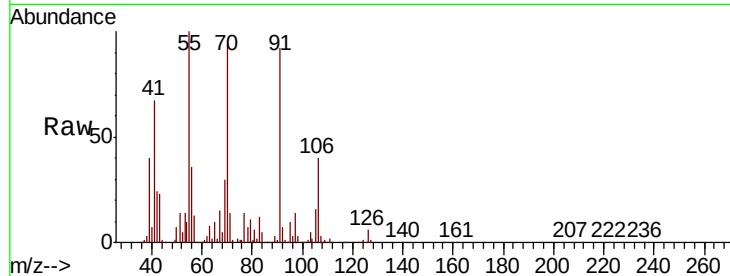
Tot Ion: 83 Resp: 13574

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.7#

85 0.0 32.8 98.3#



#64

n-propylbenzene

Concen: 0.889 ppbv

RT: 15.54 min Scan# 3966

Delta R.T. -0.01 min

Lab File: VL039096.D

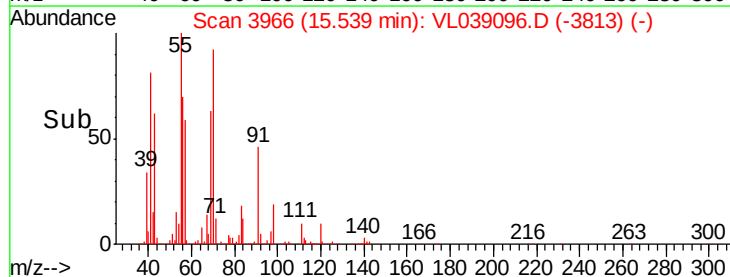
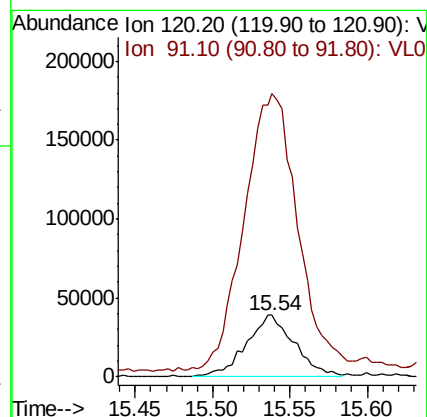
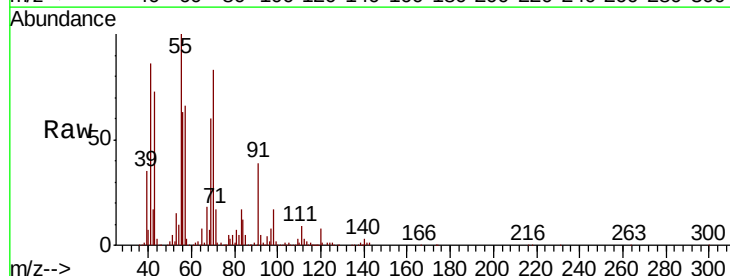
Acq: 23 May 2022 23:05

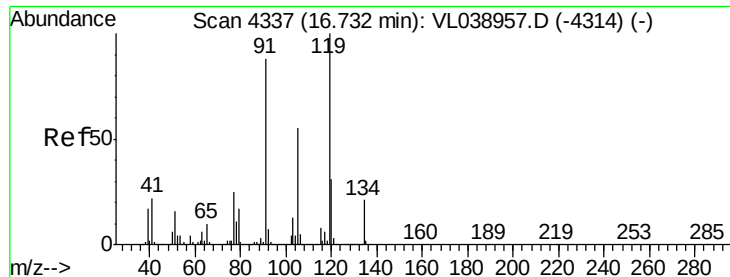
Tgt Ion: 120 Resp: 85319

Ion Ratio Lower Upper

120 100

91 515.0 400.6 601.0





#65

tert-Butylbenzene

Concen: 0.760 ppbv

RT: 16.74

Delta R.T. MSVOA_L

Lab File: VP-1

Acq: 23 May 2022 23:05

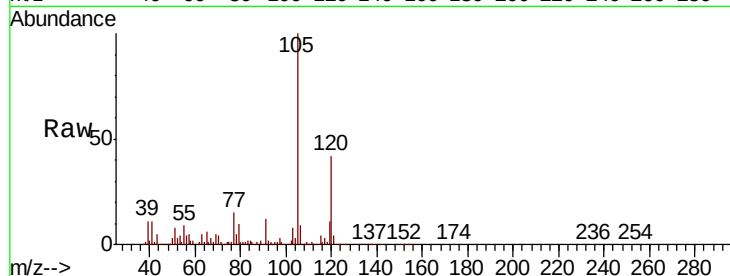
Tot Ion: 119 Resp: 264380

Ion Ratio Lower Upper

119 100

91 115.3 69.4 104.2#

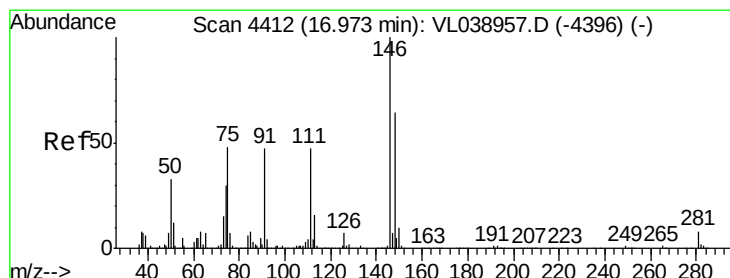
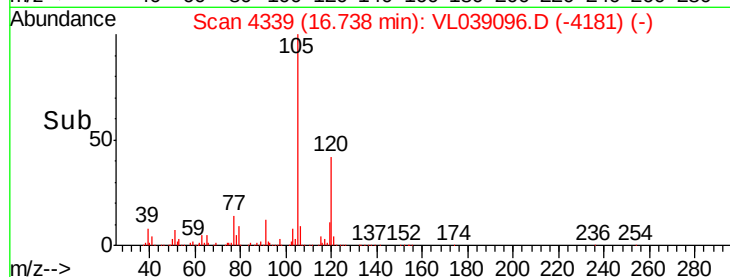
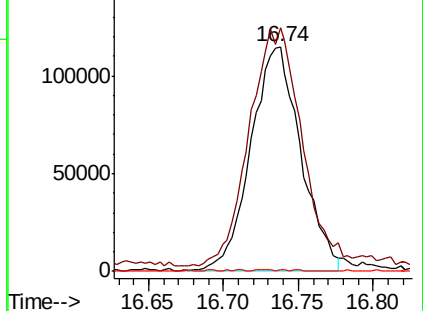
134 0.5 15.8 23.8#



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



#66

Benzyl Chloride

Concen: 0.037 ppbv

RT: 16.90 min Scan# 4390

Delta R.T. -0.07 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

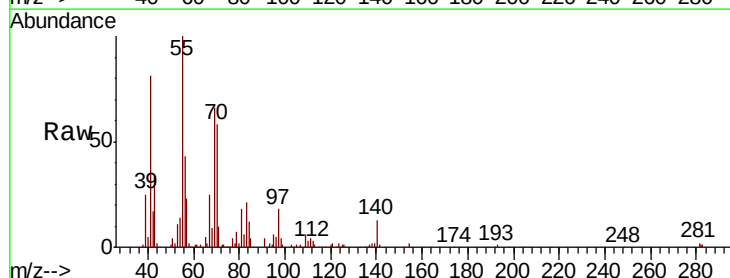
Tgt Ion: 91 Resp: 1676

Ion Ratio Lower Upper

91 100

126 272.5 11.8 17.6#

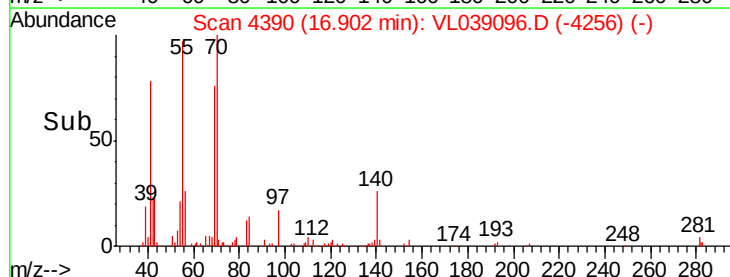
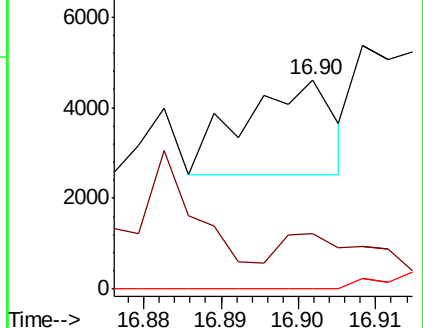
128 8.7 4.2 6.2#

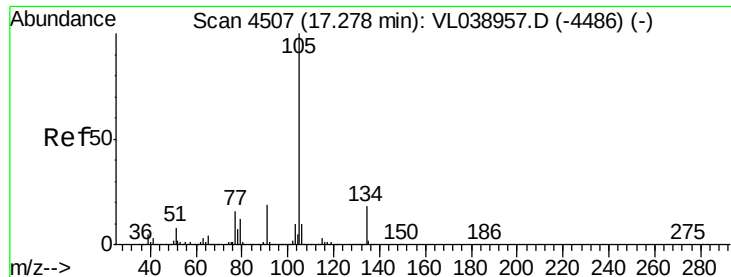


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.082 ppbv

RT: 17.27 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

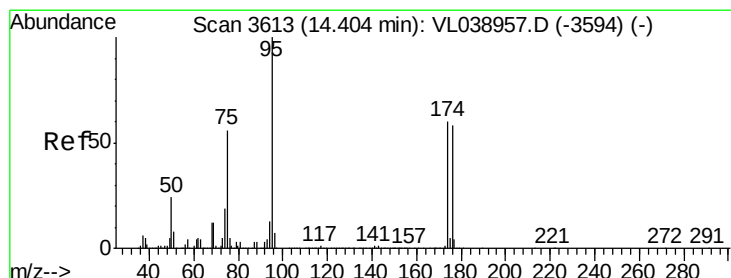
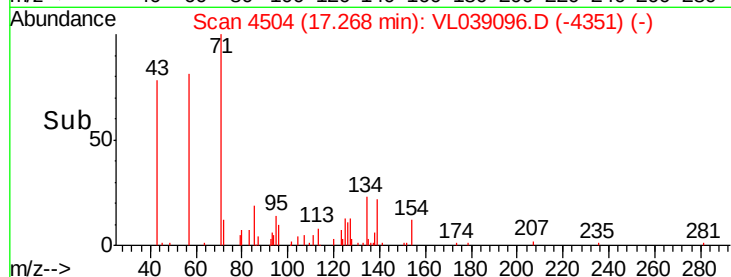
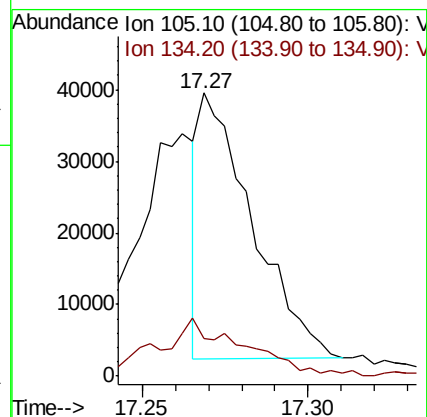
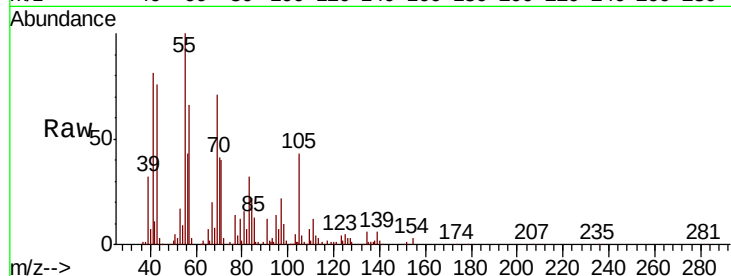
Acq: 23 May 2022 23:05

Tot Ion: 105 Resp: 40910

Ion Ratio Lower Upper

105 100

134 37.4 14.2 21.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 11.286 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.01 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

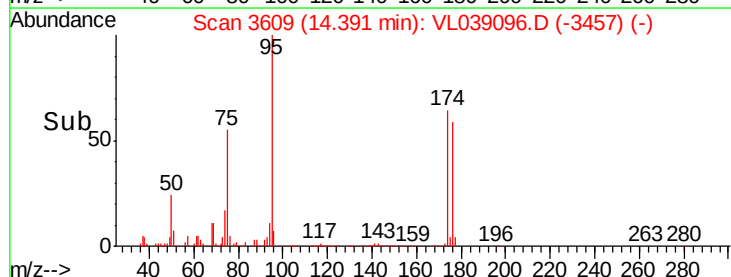
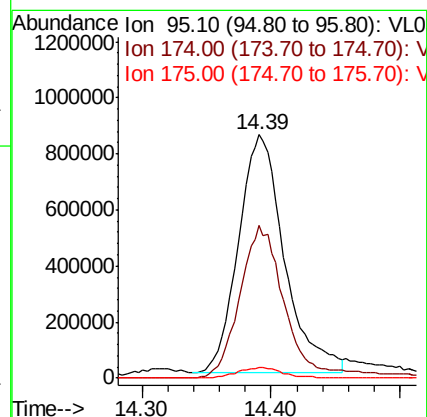
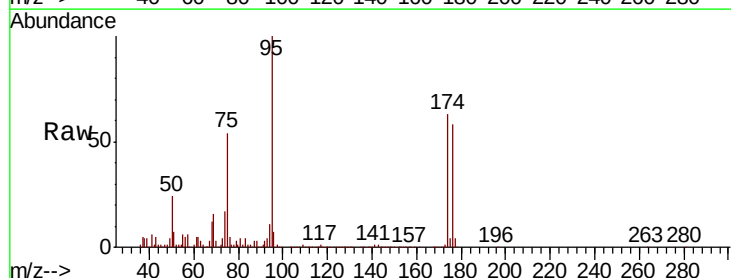
Tgt Ion: 95 Resp: 2097861

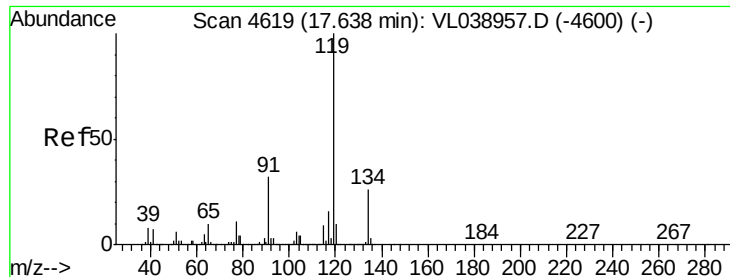
Ion Ratio Lower Upper

95 100

174 65.4 50.8 76.2

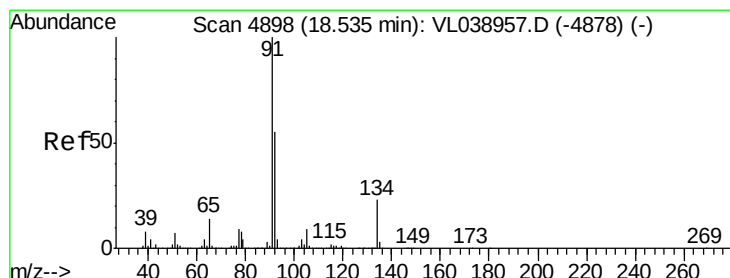
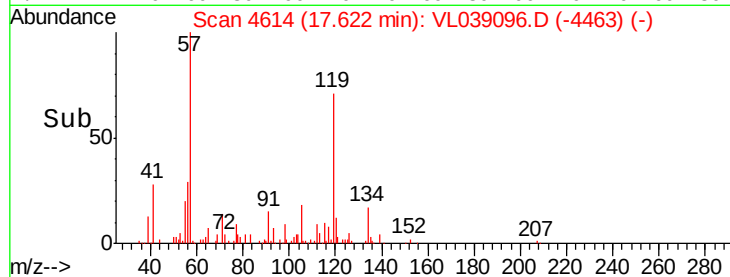
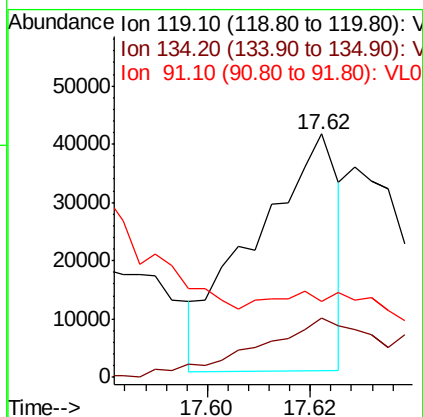
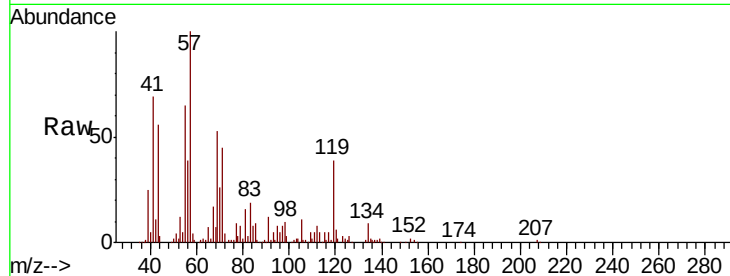
175 4.7 3.8 5.6





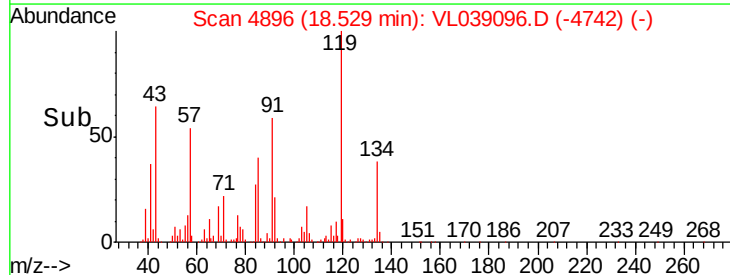
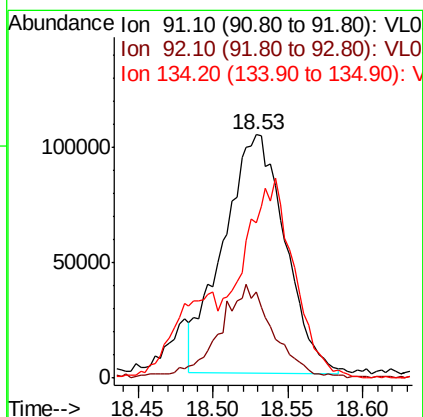
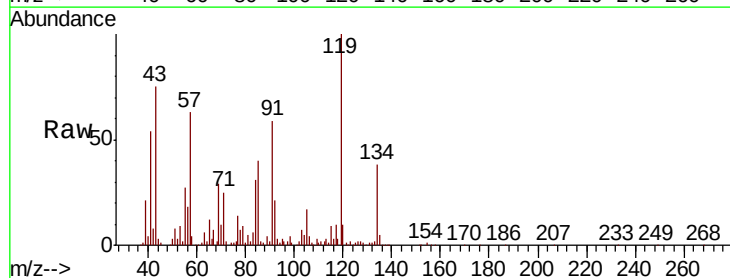
#69
 p-Isopropyltoluene
 Concen: 0.114 ppbv
 RT: 17.62 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 May 2022 23:05

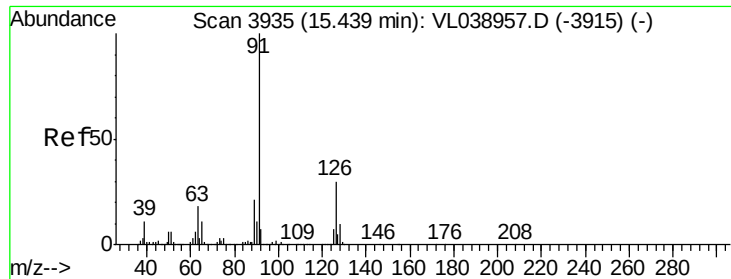
Tot Ion	Ratio	Lower	Upper
119	100		
134	44.2	20.0	30.0#
91	0.0	24.8	37.2#



#70
 n-Butylbenzene
 Concen: 0.701 ppbv
 RT: 18.53 min Scan# 4896
 Delta R.T. -0.01 min
 Lab File: VL039096.D
 Acq: 23 May 2022 23:05

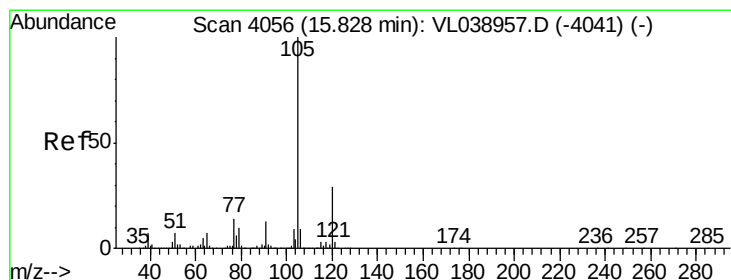
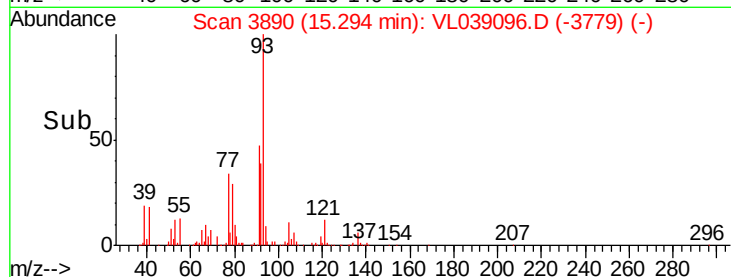
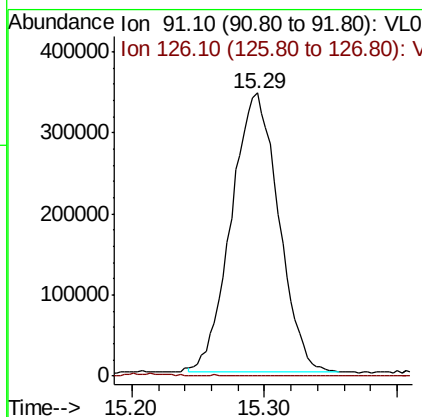
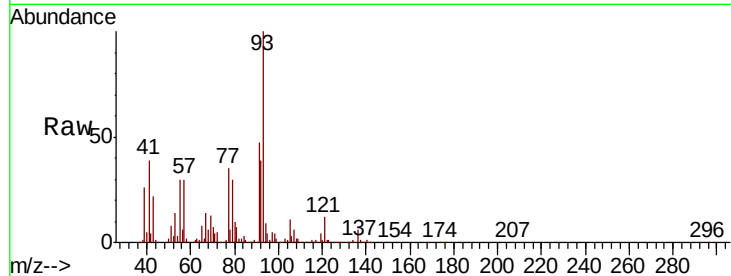
Tgt Ion	Ratio	Lower	Upper
91	100		
92	34.0	43.1	64.7#
134	94.3	17.0	25.4#





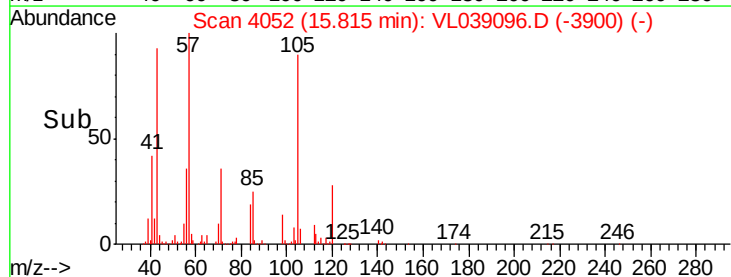
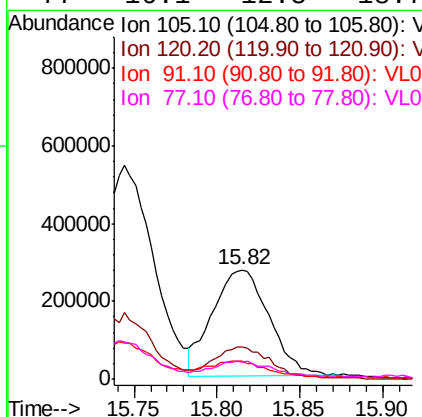
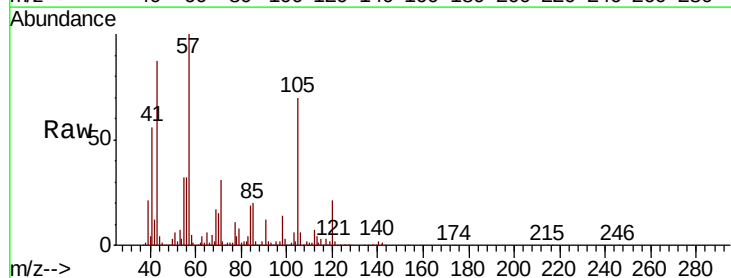
#71
 2-Chlorotoluene
 Concen: 2.787 ppbv
 RT: 15.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VP-1
 Acq: 23 May 2022 23:05

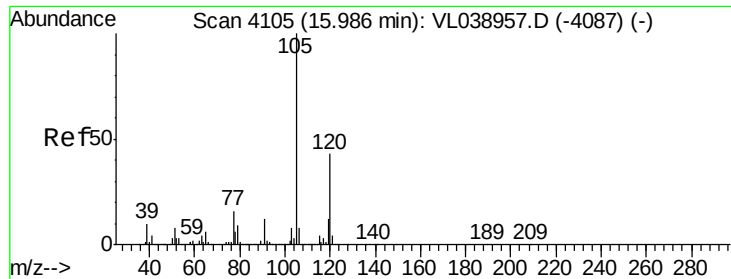
Tot Ion: 91 Resp: 852816
 Ion Ratio Lower Upper
 91 100
 126 0.1 11.9 47.5#



#72
 4-Ethyltoluene
 Concen: 2.098 ppbv
 RT: 15.82 min Scan# 4052
 Delta R.T. -0.01 min
 Lab File: VL039096.D
 Acq: 23 May 2022 23:05

Tgt Ion:105 Resp: 648904
 Ion Ratio Lower Upper
 105 100
 120 31.6 23.4 35.0
 91 16.4 10.6 16.0#
 77 16.1 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 2.453 ppbv

RT: 15.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

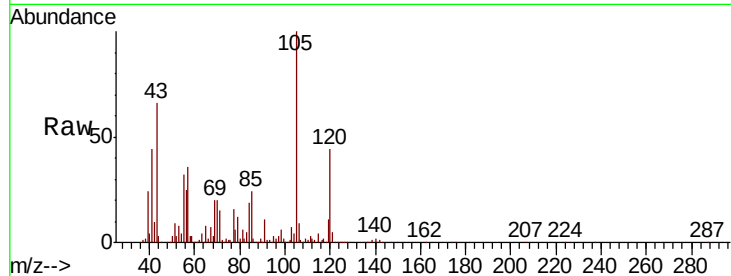
Acq: 23 May 2022 23:05

Tot Ion:105 Resp: 682923

Ion Ratio Lower Upper

105 100

120 44.1 34.4 51.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.97

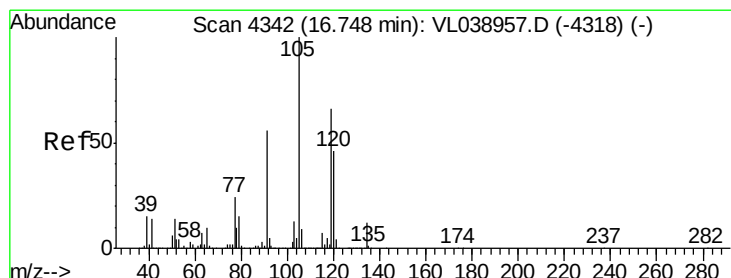
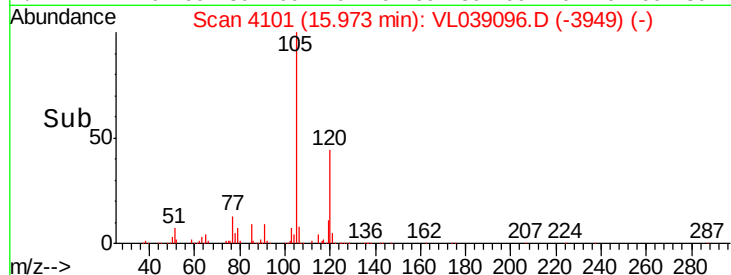
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.161 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

Tgt Ion:105 Resp: 2487981

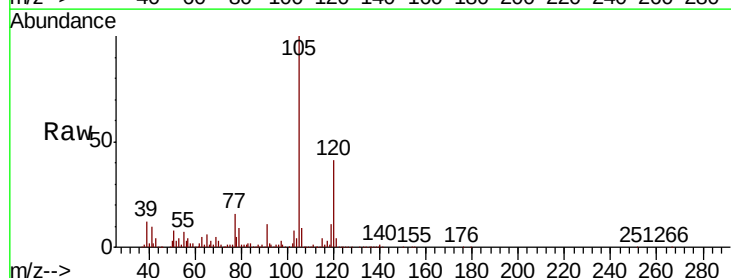
Ion Ratio Lower Upper

105 100

120 41.5 36.9 55.3

91 11.0 45.0 67.4#

77 15.2 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

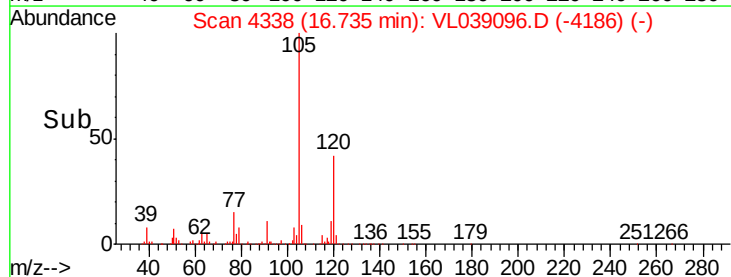
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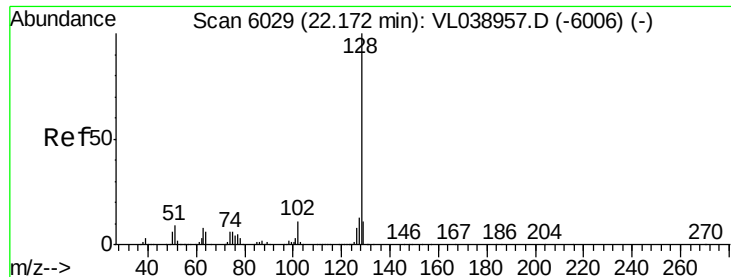
1000000

500000

0

Time-->





#79

Naphthalene

Concen: 1.363 ppbv

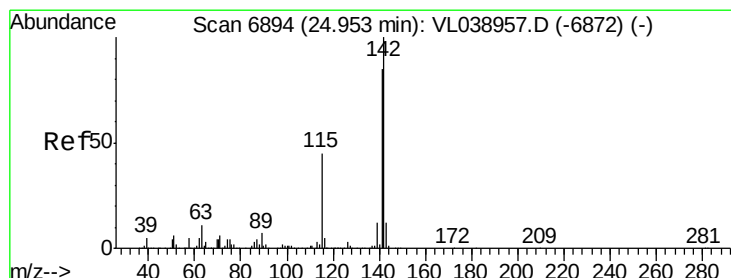
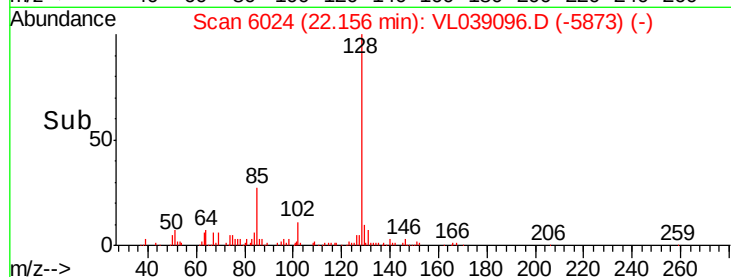
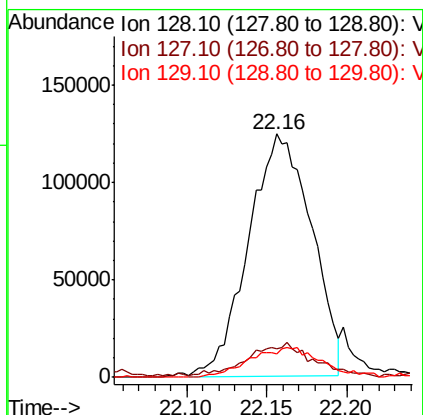
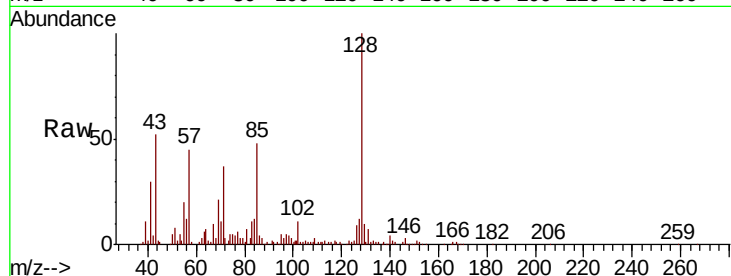
RT: 22.16

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 May 2022 23:05

Tot Ion:128	Resp:	337539
Ion Ratio	Lower	Upper
128	100	
127	11.1	10.2 15.2
129	9.4	8.9 13.3



#80

Naphthalene, 2-methyl-

Concen: 0.527 ppbv

RT: 25.27 min Scan# 6992

Delta R.T. 0.32 min

Lab File: VL039096.D

Acq: 23 May 2022 23:05

Tgt Ion:142	Resp:	39453
Ion Ratio	Lower	Upper
142	100	
141	77.9	70.8 106.2
115	41.5	35.1 52.7

