

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090822\
 Data File : VX031223.D
 Acq On : 08 Sep 2022 19:48
 Operator : JC/MD
 Sample : N4505-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CLI-107

Quant Time: Sep 09 01:10:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X090722W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 07 23:22:41 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

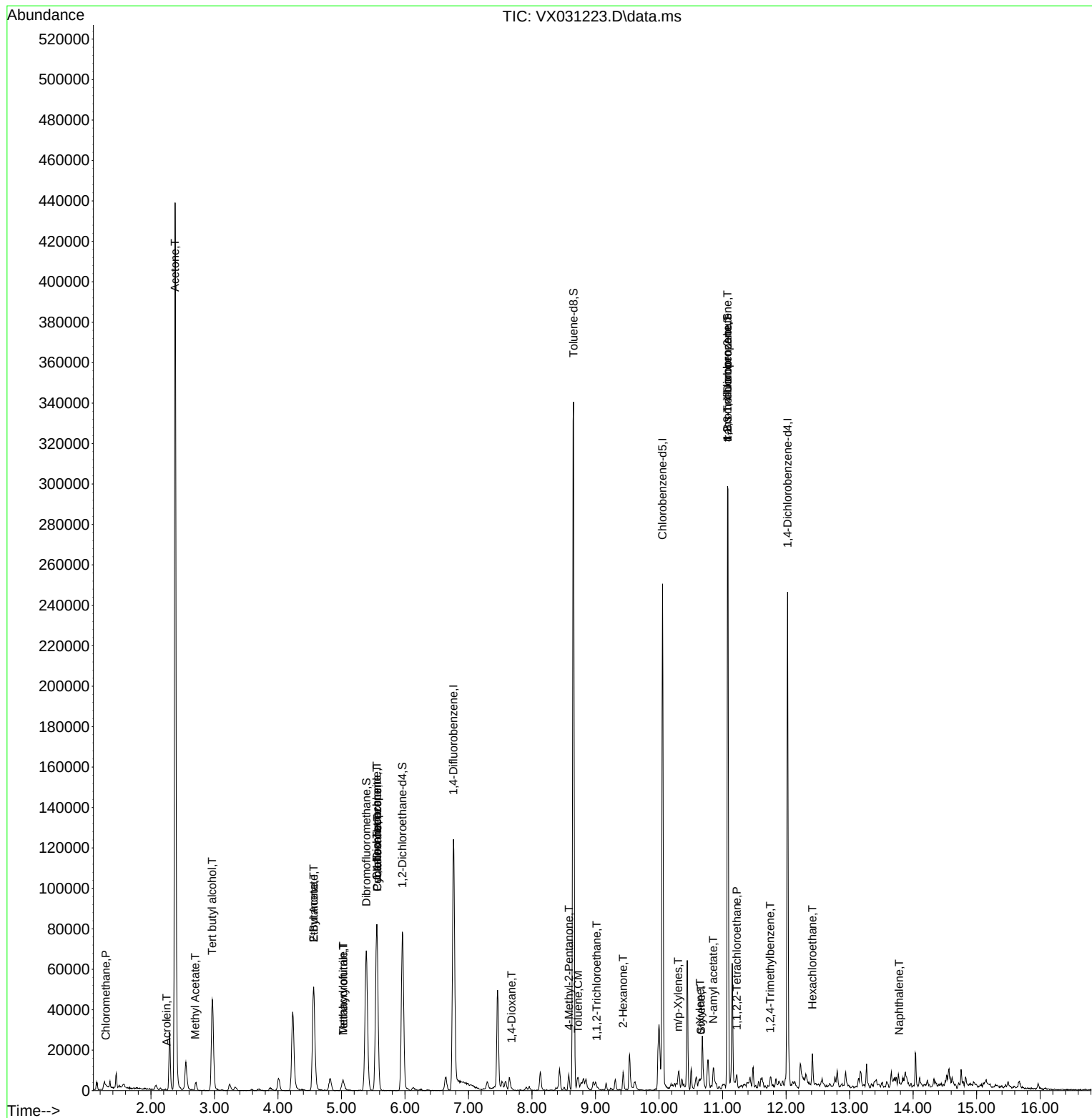
Internal Standards						
1) Pentafluorobenzene	5.562	168	66378	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	115930	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	101948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	45221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	88097	56.058	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.120%			
35) Dibromofluoromethane	5.391	113	59629	47.200	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.400%			
50) Toluene-d8	8.653	98	202559	44.131	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.260%			
62) 4-Bromofluorobenzene	11.079	95	82628	49.123	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.240%			
Target Compounds						
						Qvalue
3) Chloromethane	1.288	50	303	0.370	ug/l	# 42
11) Tert butyl alcohol	2.965	59	59438	206.753	ug/l	# 94
13) Acrolein	2.245	56	68	0.312	ug/l	# 14
16) Acetone	2.380	43	461413	847.965	ug/l	88
18) Methyl Acetate	2.697	43	4680	3.322	ug/l	# 85
25) 2-Butanone	4.562	43	81863	101.567	ug/l	96
29) Tetrahydrofuran	5.025	42	1560	3.278	ug/l	# 88
31) Cyclohexane	5.562	56	1733	0.987	ug/l	# 28
36) 1,1-Dichloropropene	5.556	75	6241	3.299	ug/l	# 47
37) Ethyl Acetate	4.562	43	81863	48.775	ug/l	# 67
38) Carbon Tetrachloride	5.556	117	8500	4.270	ug/l	# 18
41) Methacrylonitrile	5.025	41	1813	2.066	ug/l	# 78
49) 1,4-Dioxane	7.677	88	335	9.417	ug/l	# 25
51) 4-Methyl-2-Pentanone	8.580	43	3819	2.357	ug/l	93
52) Toluene	8.726	92	1517	0.448	ug/l	96
55) 1,1,2-Trichloroethane	9.019	97	477	0.342	ug/l	# 15
59) 2-Hexanone	9.433	43	4517	3.686	ug/l	95
68) m/p-Xylenes	10.299	106	1243	0.616	ug/l	96
69) o-Xylene	10.646	106	428	0.213	ug/l	73
70) Styrene	10.659	104	1147	0.355	ug/l	# 85
74) N-amyl acetate	10.854	43	536	0.429	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	11.226	83	953	0.777	ug/l	# 41
76) 1,2,3-Trichloropropane	11.079	75	48854	39.585	ug/l	# 37
81) trans-1,4-Dichloro-2-b...	11.079	75	48854	127.657	ug/l	# 13
84) 1,2,4-Trimethylbenzene	11.750	105	1480	0.461	ug/l	77
90) Hexachloroethane	12.414	117	448	0.801	ug/l	# 16
95) Naphthalene	13.780	128	1241	0.348	ug/l	# 92

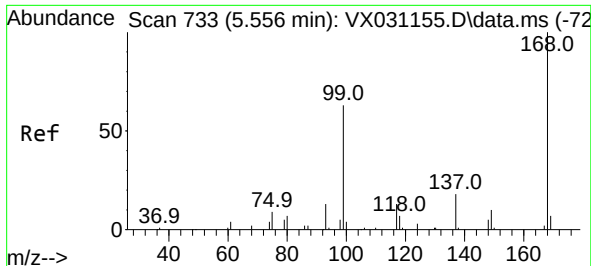
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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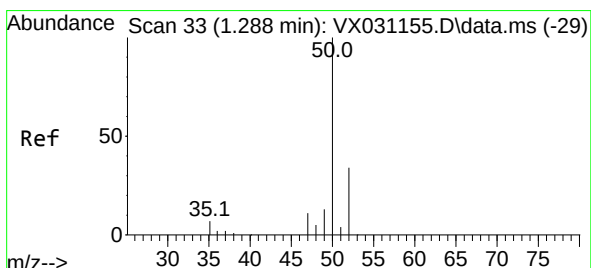
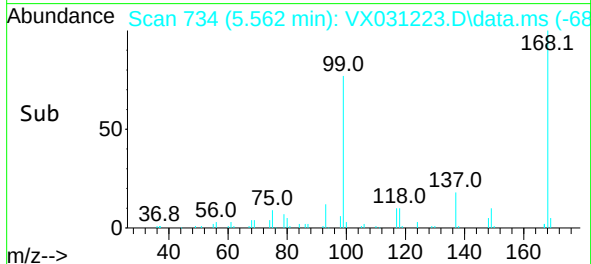
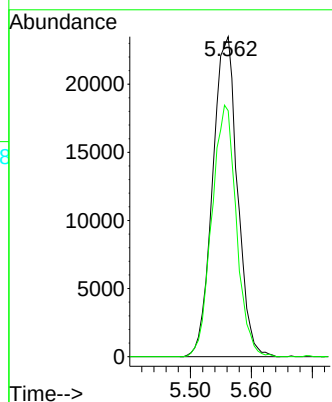
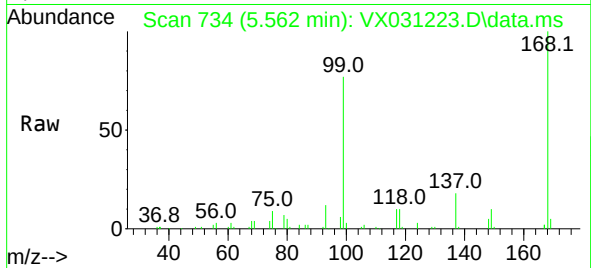




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

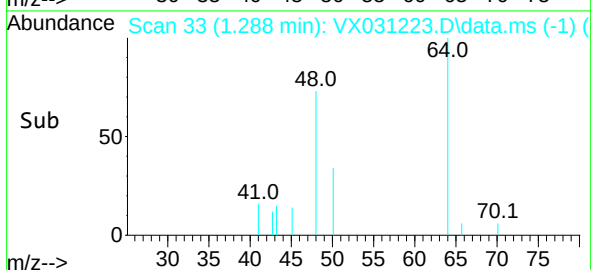
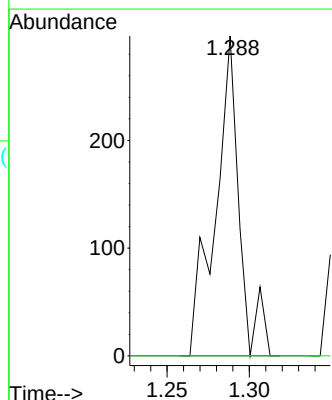
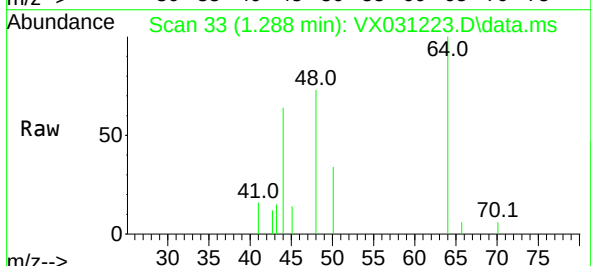
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

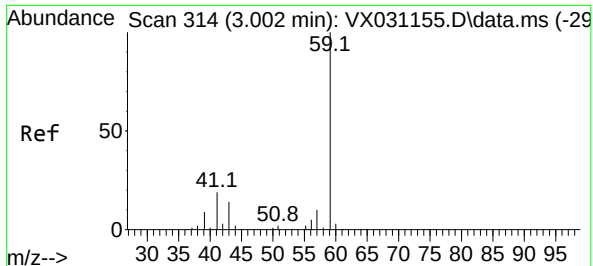
Tgt Ion:168 Resp: 66378
Ion Ratio Lower Upper
168 100
99 76.8 44.0 66.0#



#3
Chloromethane
Concen: 0.370 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 50 Resp: 303
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#





#11

Tert butyl alcohol

Concen: 206.753 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.037 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

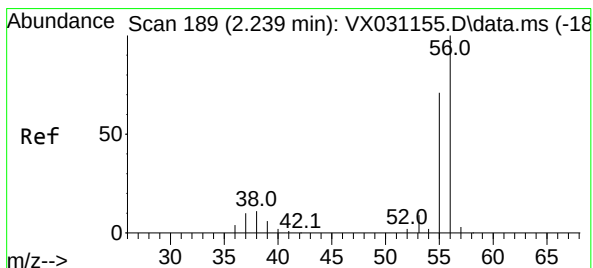
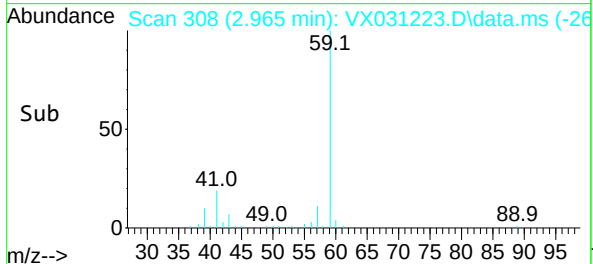
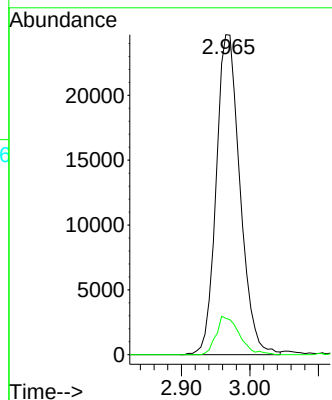
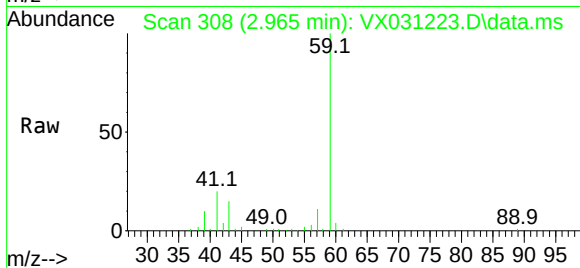
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Tgt Ion: 59 Resp: 59438

Ion Ratio Lower Upper

59 100

57 11.6 7.4 11.2#



#13

Acrolein

Concen: 0.312 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX031223.D

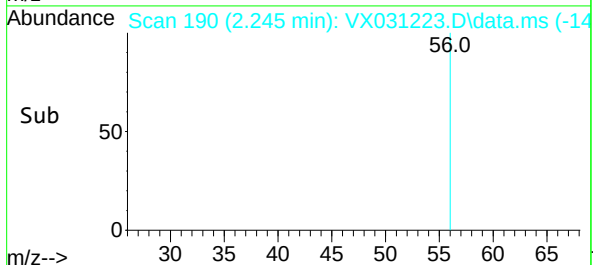
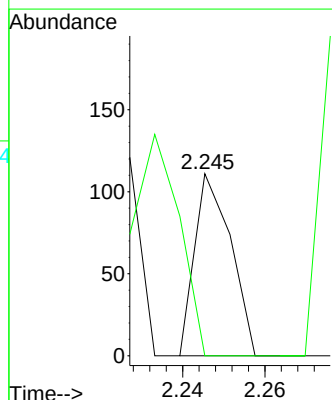
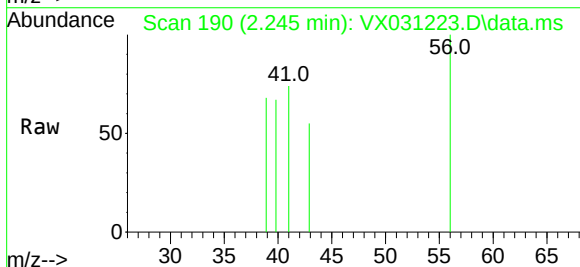
Acq: 08 Sep 2022 19:48

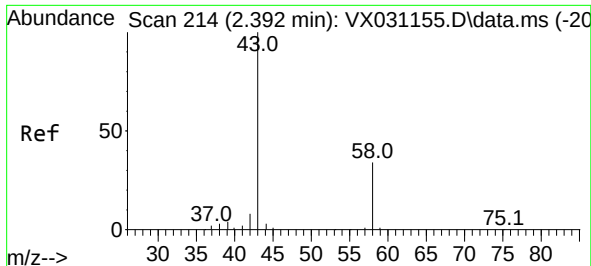
Tgt Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#

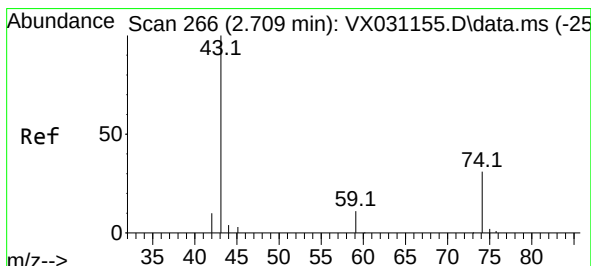
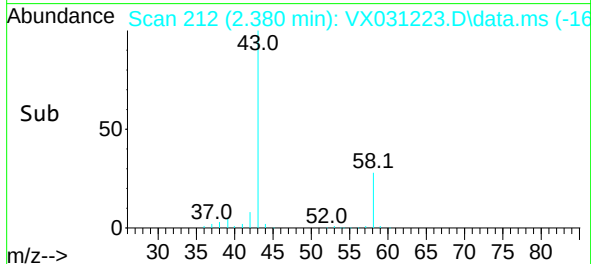
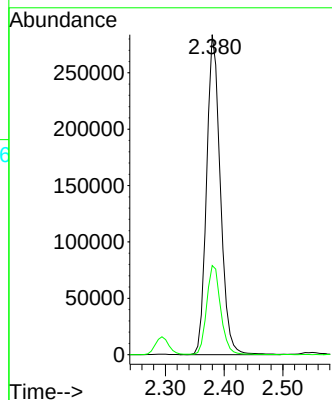
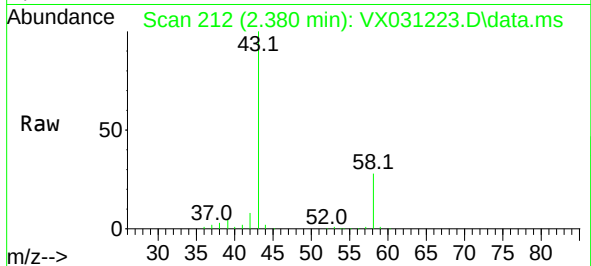




#16
Acetone
Concen: 847.965 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

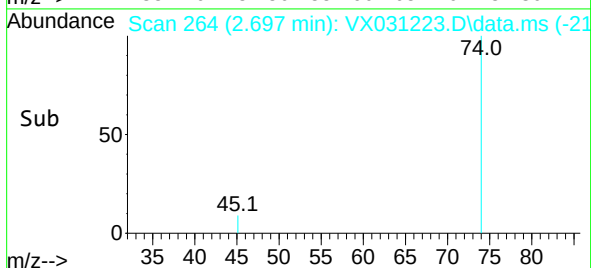
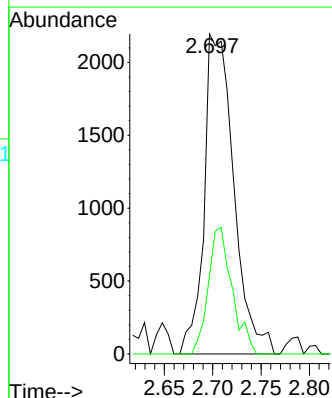
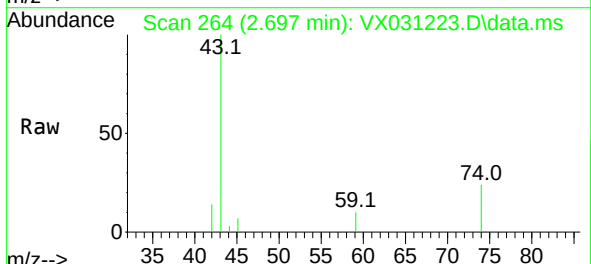
Instrument :
MSVOA_X
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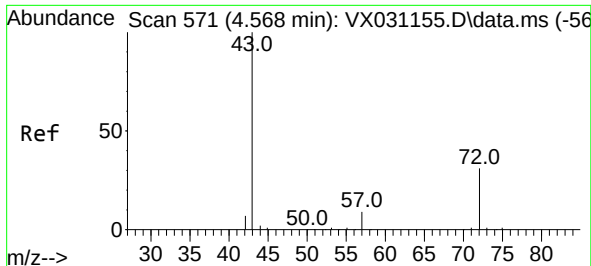
Tgt Ion: 43 Resp: 461413
Ion Ratio Lower Upper
43 100
58 27.8 27.7 41.5



#18
Methyl Acetate
Concen: 3.322 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.012 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 43 Resp: 4680
Ion Ratio Lower Upper
43 100
74 31.7 19.4 29.2#

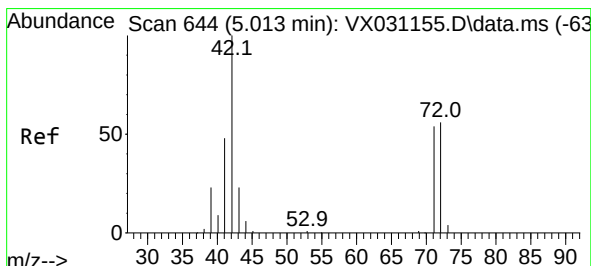
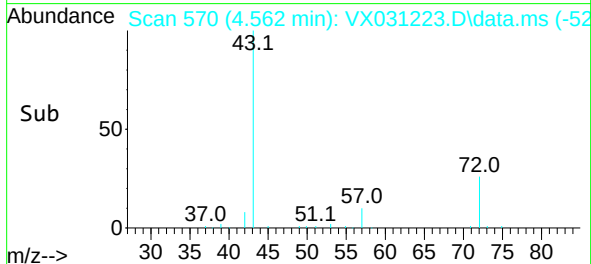
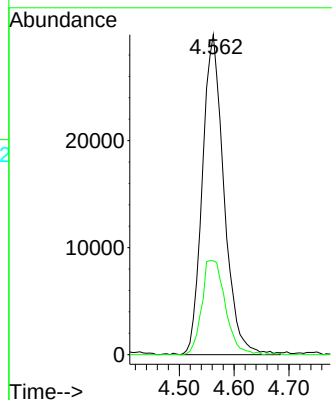
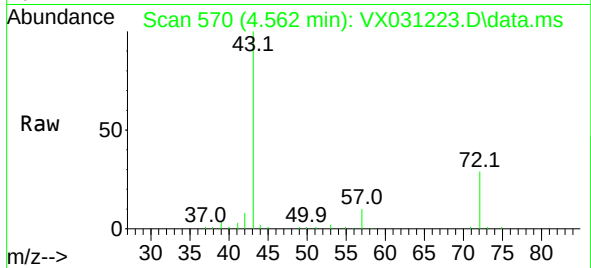




#25
2-Butanone
Concen: 101.567 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.006 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

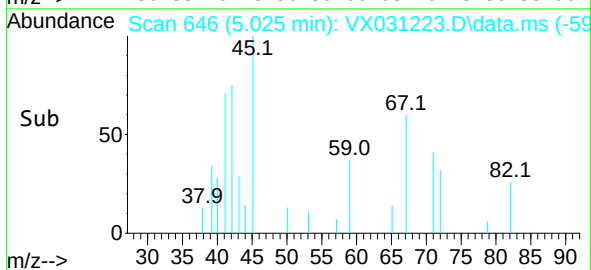
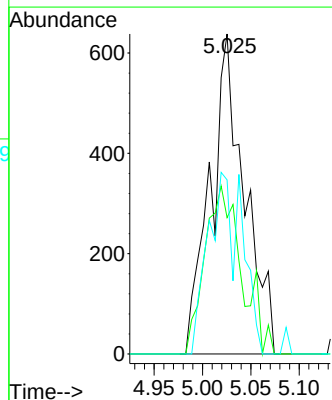
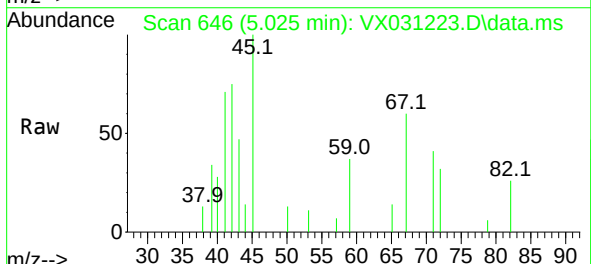
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

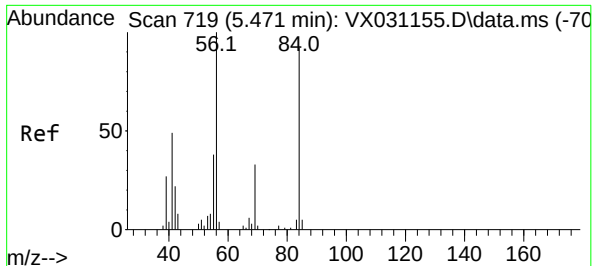
Tgt Ion: 43 Resp: 81863
Ion Ratio Lower Upper
43 100
72 29.4 21.7 32.5



#29
Tetrahydrofuran
Concen: 3.278 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.012 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

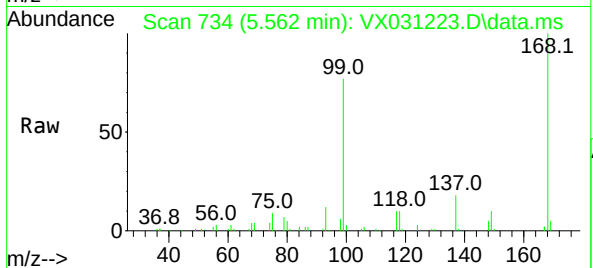
Tgt Ion: 42 Resp: 1560
Ion Ratio Lower Upper
42 100
72 56.5 36.5 54.7#
71 38.5 33.9 50.9



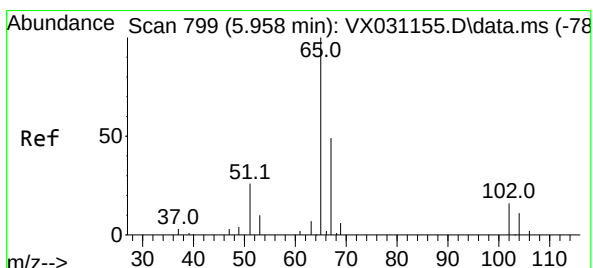
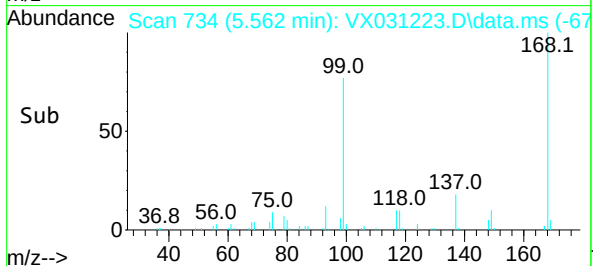
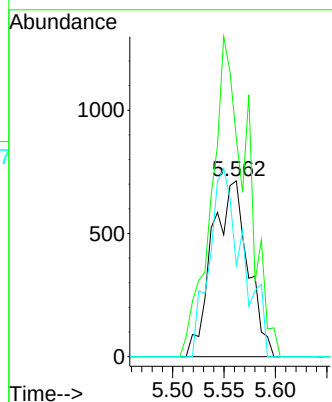


#31
Cyclohexane
Concen: 0.987 ug/l
RT: 5.562 min Scan# 719
Delta R.T. 0.091 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Instrument :
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ClientSampleId :
CLI-107

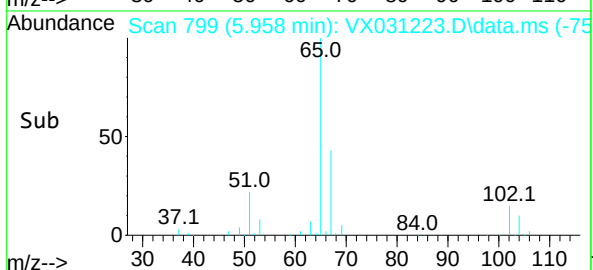
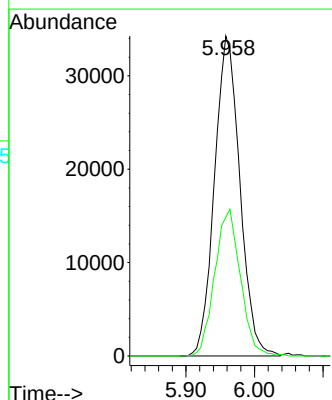
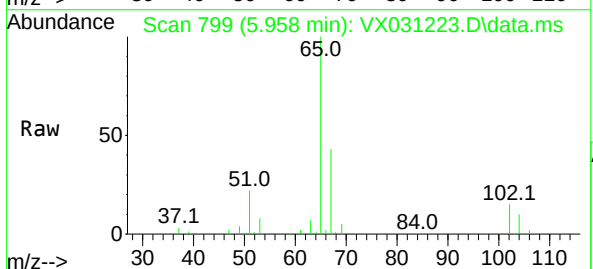


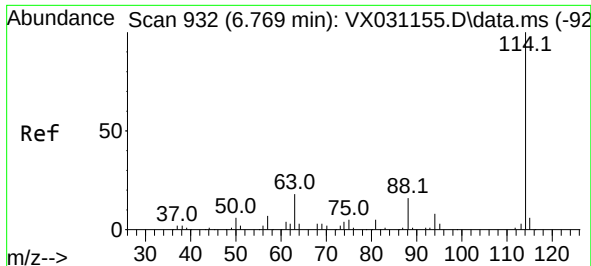
Tgt Ion: 56 Resp: 1733
Ion Ratio Lower Upper
56 100
69 124.1 25.4 38.0#
84 51.7 68.9 103.3#



#33
1,2-Dichloroethane-d4
Concen: 56.058 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 65 Resp: 88097
Ion Ratio Lower Upper
65 100
67 46.3 0.0 109.6

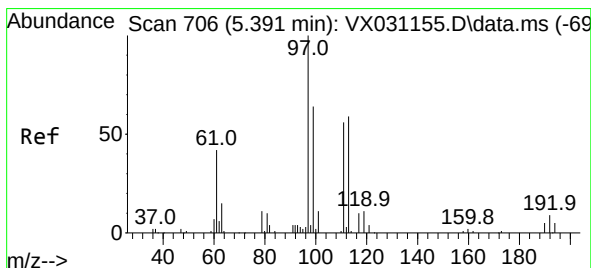
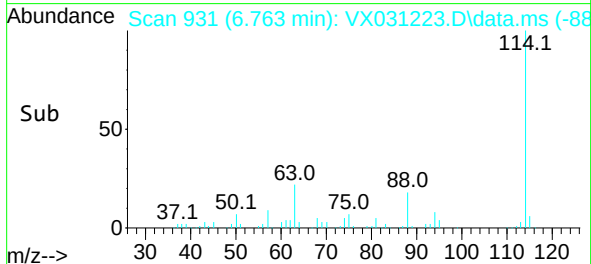
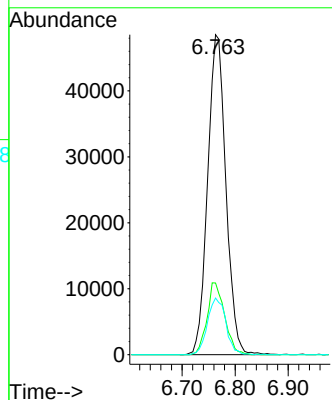
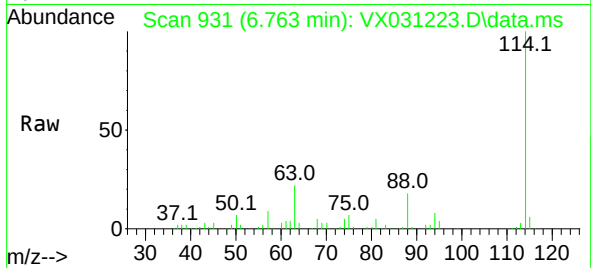




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

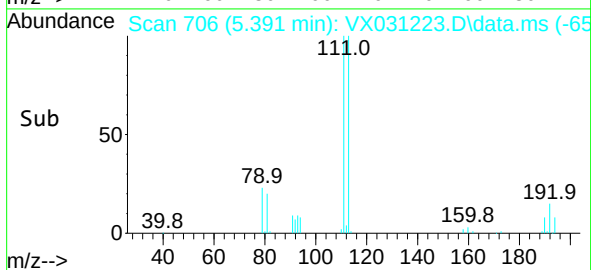
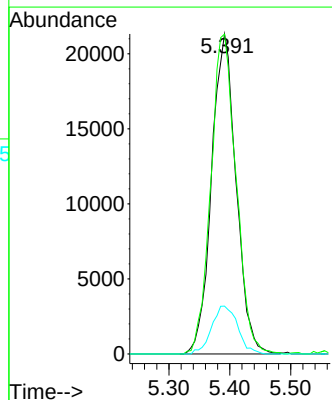
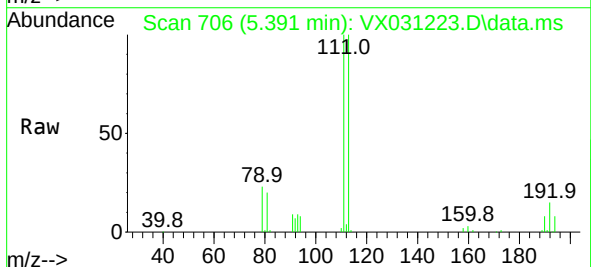
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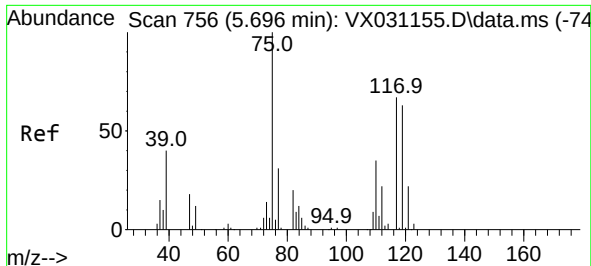
Tgt Ion:114 Resp: 115930
Ion Ratio Lower Upper
114 100
63 22.4 0.0 38.4
88 17.7 0.0 31.8



#35
Dibromofluoromethane
Concen: 47.200 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion:113 Resp: 59629
Ion Ratio Lower Upper
113 100
111 103.0 83.2 124.8
192 15.9 14.8 22.2

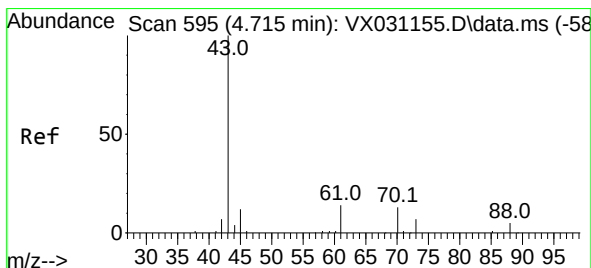
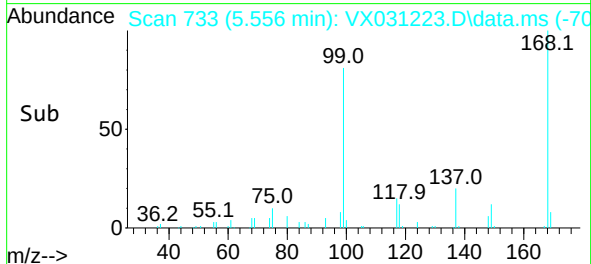
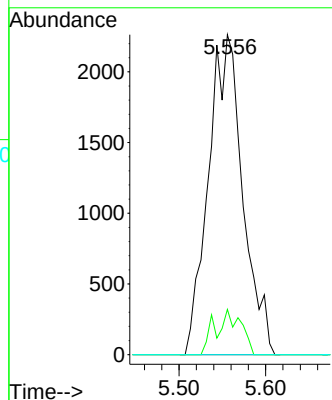
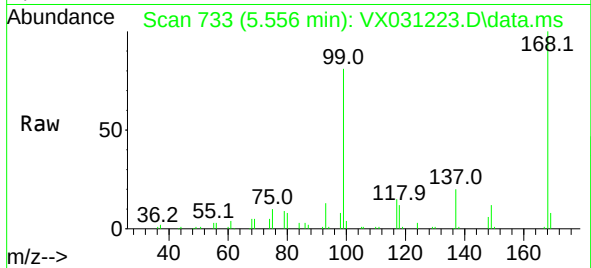




#36
1,1-Dichloropropene
Concen: 3.299 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

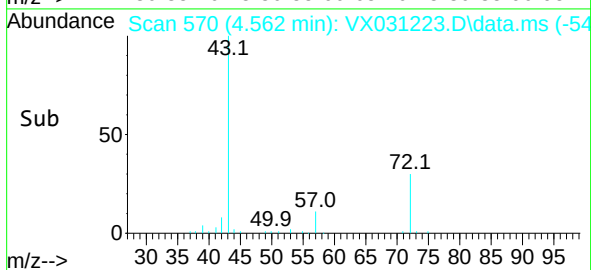
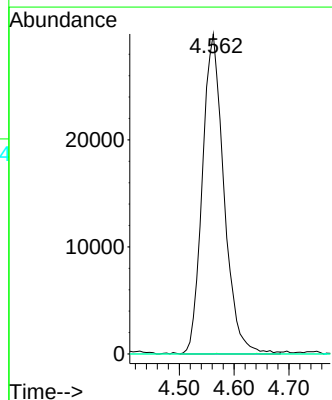
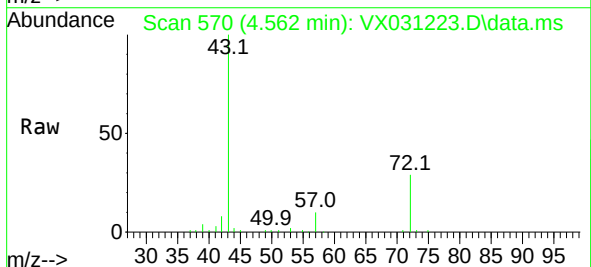
Instrument :
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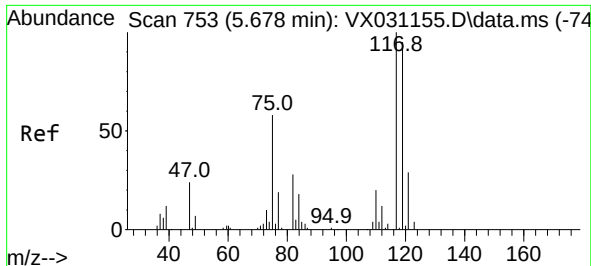
Tgt Ion: 75 Resp: 6241
Ion Ratio Lower Upper
75 100
110 7.5 19.3 57.9#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 48.775 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.153 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

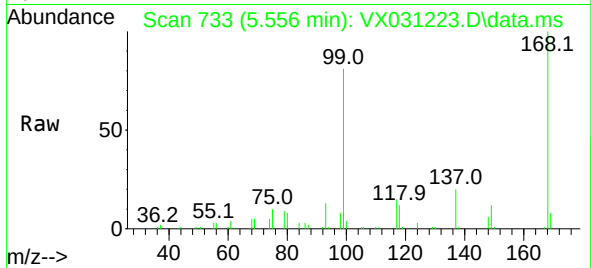
Tgt Ion: 43 Resp: 81863
Ion Ratio Lower Upper
43 100
61 0.0 11.7 17.5#
70 0.0 9.3 13.9#



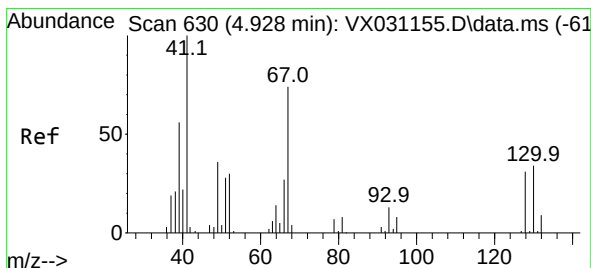
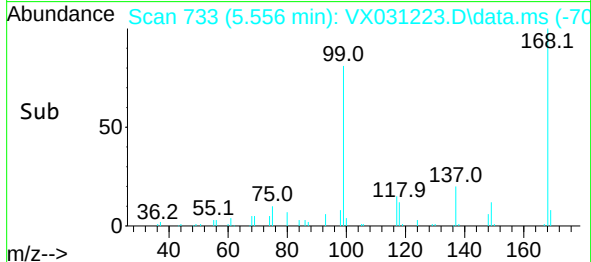
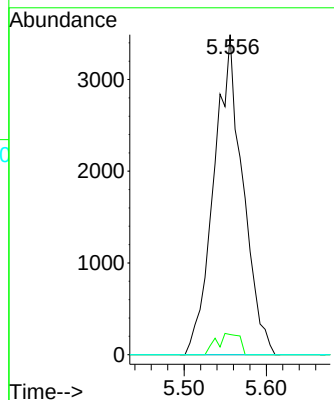


#38
Carbon Tetrachloride
Concen: 4.270 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Instrument :
MSVOA_X
ClientSampleId :
CLI-107

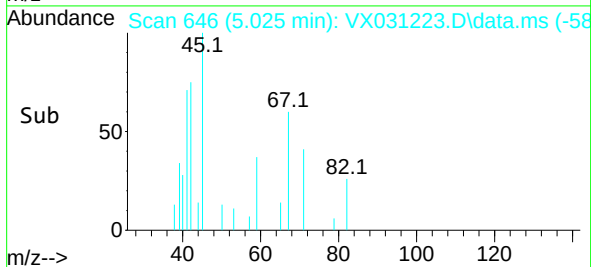
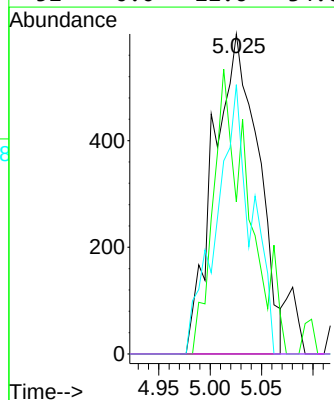
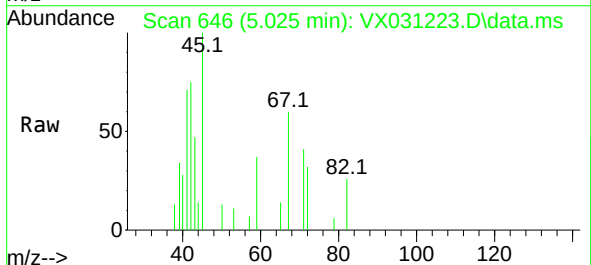


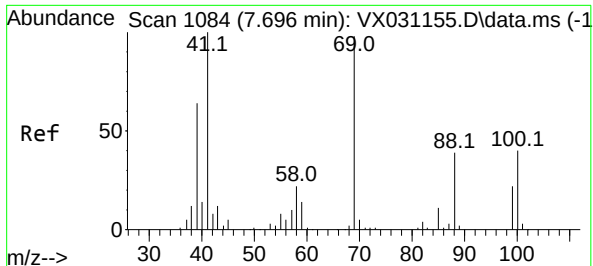
Tgt Ion: 117 Resp: 8500
Ion Ratio Lower Upper
117 100
119 6.3 74.1 111.1#
121 0.0 25.8 38.8#



#41
Methacrylonitrile
Concen: 2.066 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.097 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 41 Resp: 1813
Ion Ratio Lower Upper
41 100
39 70.2 42.9 64.3#
67 66.4 60.1 90.1
52 0.0 22.6 34.0#





#49

1,4-Dioxane

Concen: 9.417 ug/l

RT: 7.677 min Scan# 1084

Delta R.T. -0.018 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

CLI-107

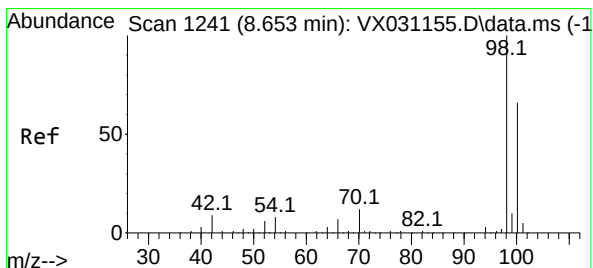
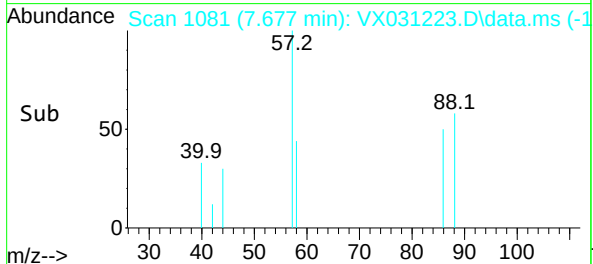
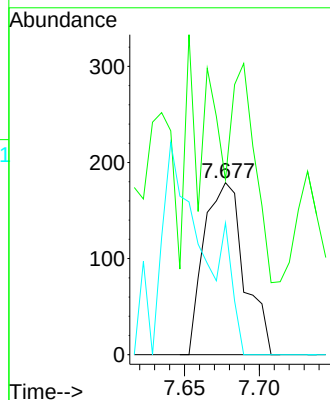
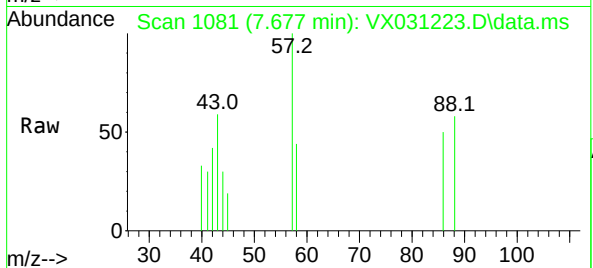
Tgt Ion: 88 Resp: 335

Ion Ratio Lower Upper

88 100

43 0.0 23.8 35.8#

58 0.0 53.8 80.6#



#50

Toluene-d8

Concen: 44.131 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX031223.D

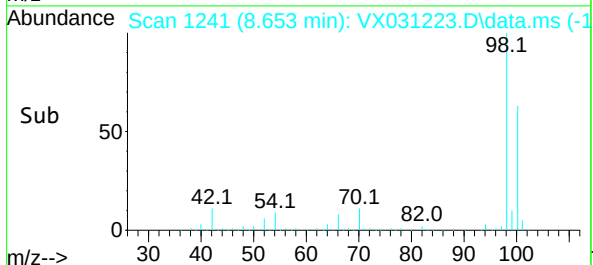
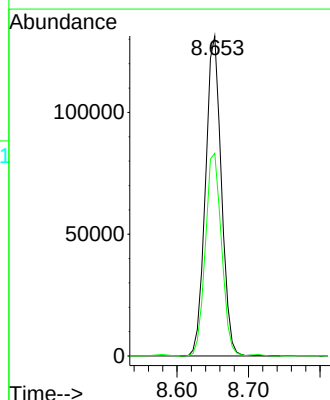
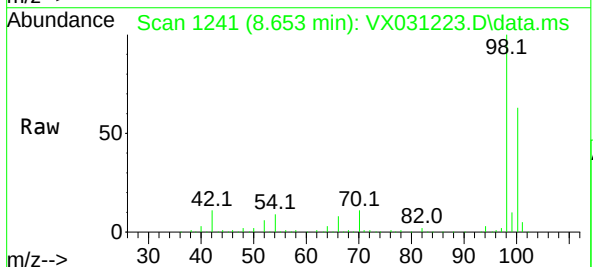
Acq: 08 Sep 2022 19:48

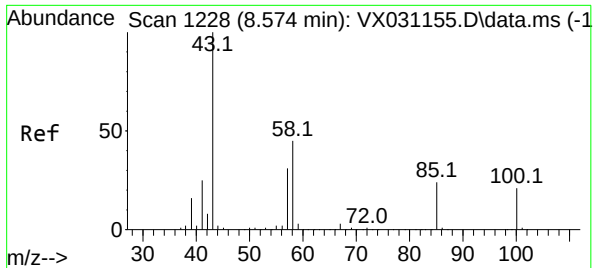
Tgt Ion: 98 Resp: 202559

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 2.357 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

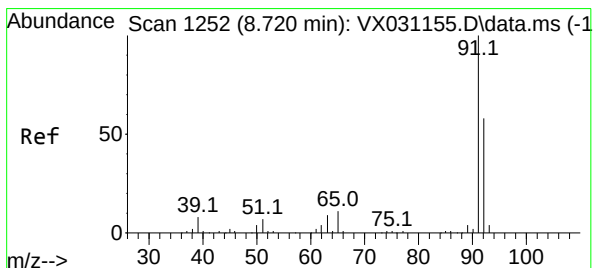
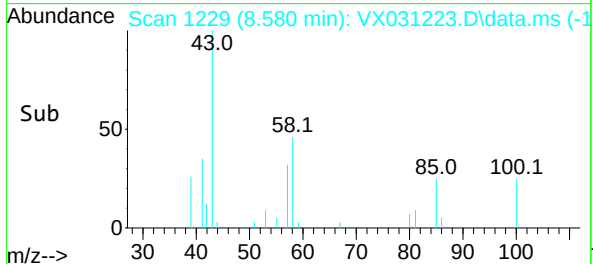
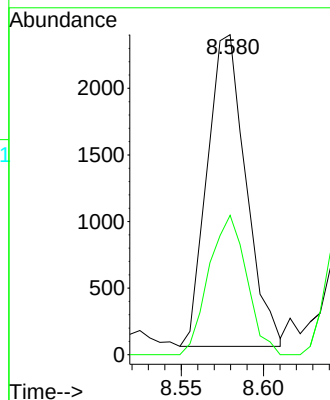
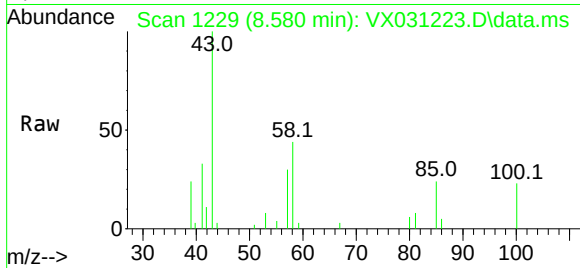
CLI-107

Tgt Ion: 43 Resp: 3819

Ion Ratio Lower Upper

43 100

58 43.8 31.4 47.2



#52

Toluene

Concen: 0.448 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX031223.D

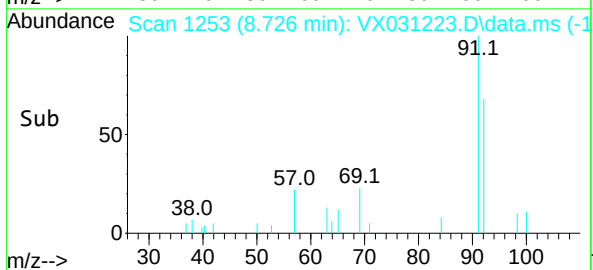
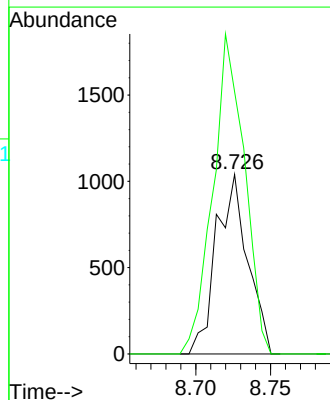
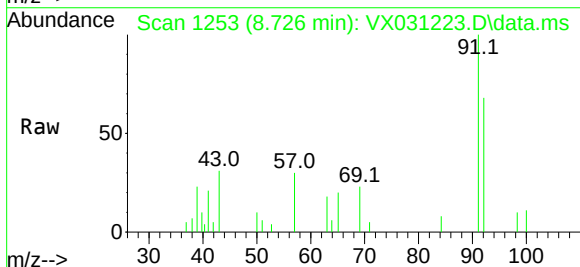
Acq: 08 Sep 2022 19:48

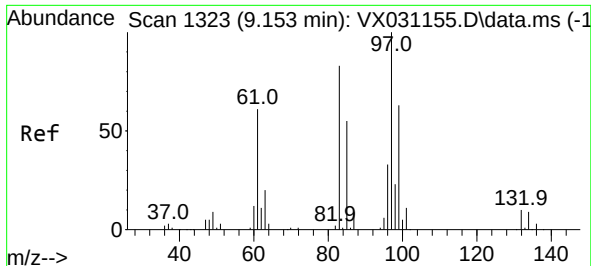
Tgt Ion: 92 Resp: 1517

Ion Ratio Lower Upper

92 100

91 179.6 139.2 208.8

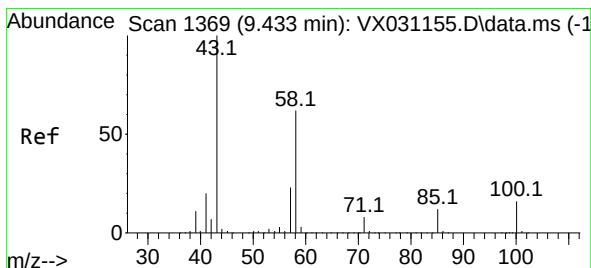
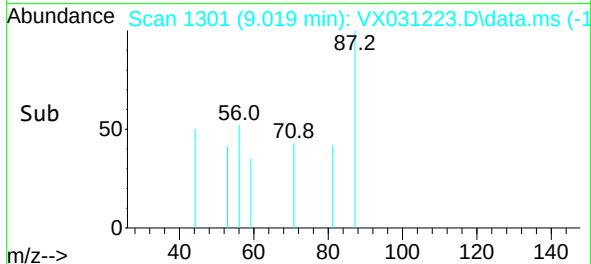
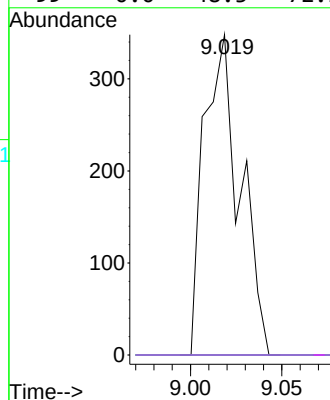
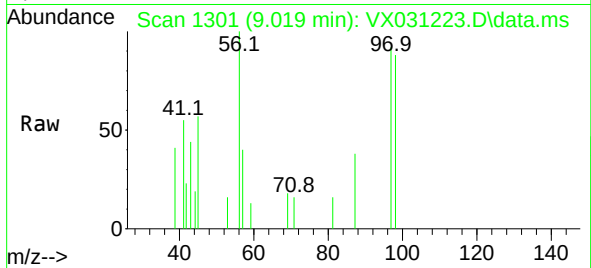




#55
1,1,2-Trichloroethane
Concen: 0.342 ug/l
RT: 9.019 min Scan# 11
Delta R.T. -0.134 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

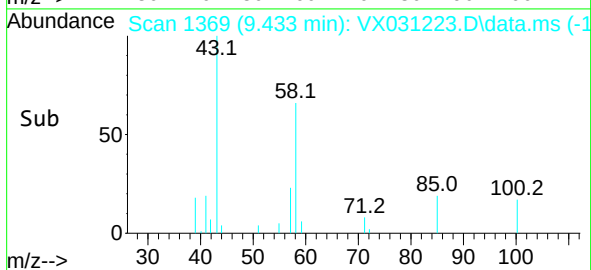
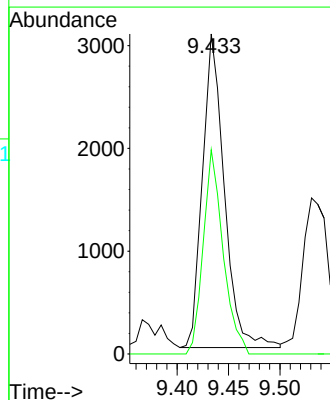
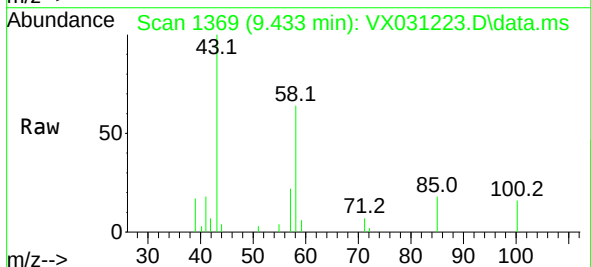
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

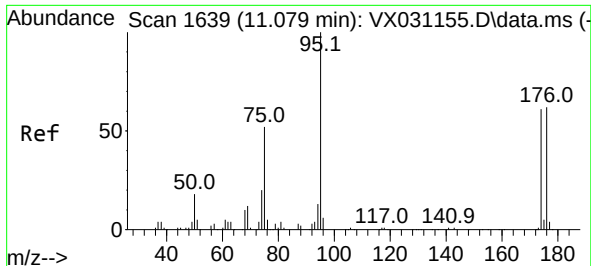
Tgt Ion: 97	Resp: 477
Ion Ratio	Lower Upper
97 100	
83 0.0	68.9 103.3#
85 0.0	44.0 66.0#
99 0.0	48.3 72.5#



#59
2-Hexanone
Concen: 3.686 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 43	Resp: 4517		
Ion Ratio	Lower	Upper	
43 100			
58 59.0	27.6	82.8	





#62

4-Bromofluorobenzene

Concen: 49.123 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

CLI-107

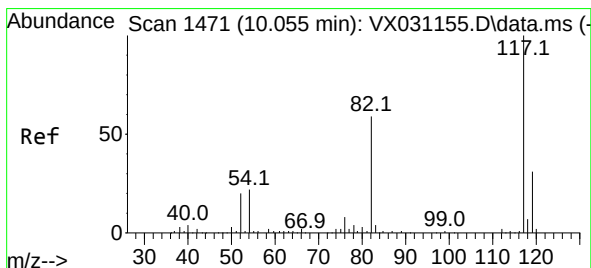
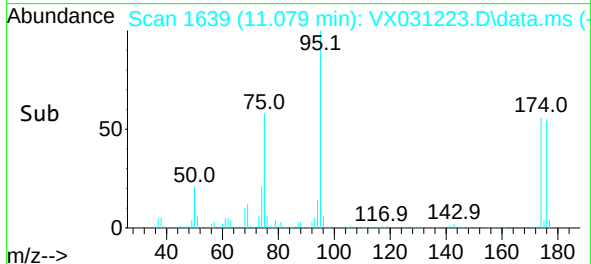
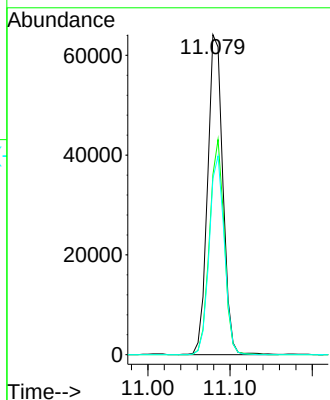
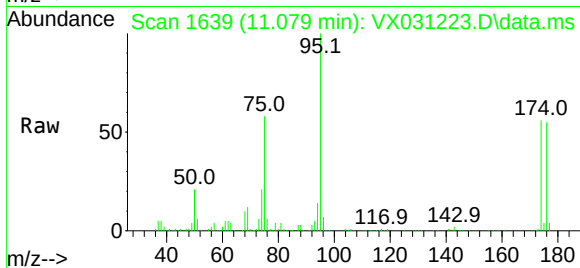
Tgt Ion: 95 Resp: 82628

Ion Ratio Lower Upper

95 100

174 64.4 0.0 149.0

176 61.1 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

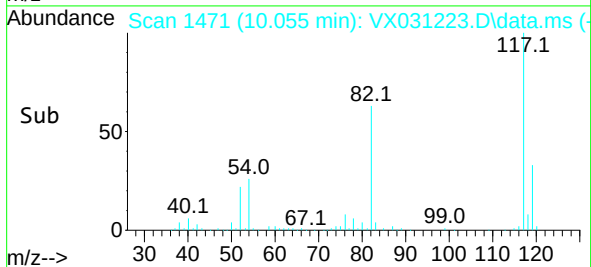
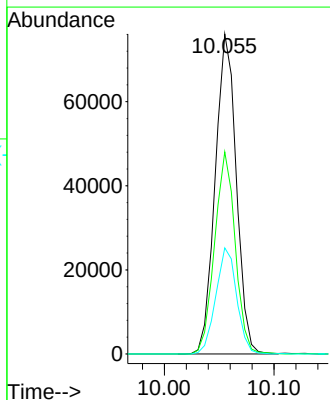
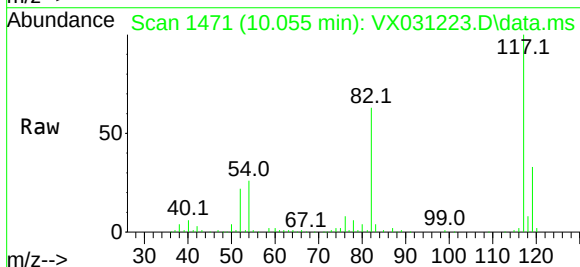
Tgt Ion: 117 Resp: 101948

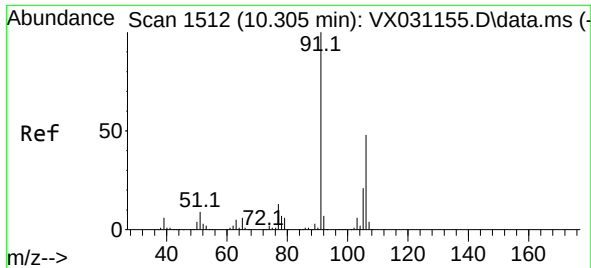
Ion Ratio Lower Upper

117 100

82 63.1 42.7 64.1

119 33.2 25.4 38.2

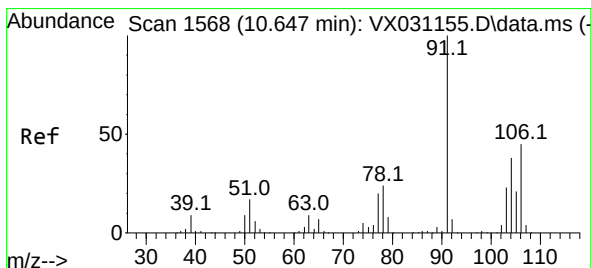
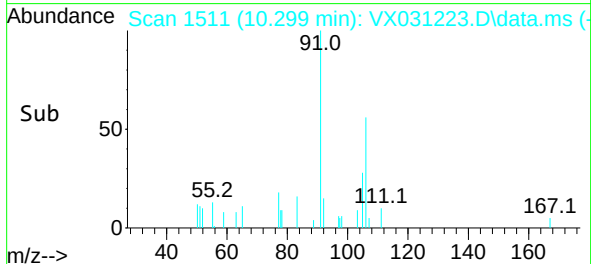
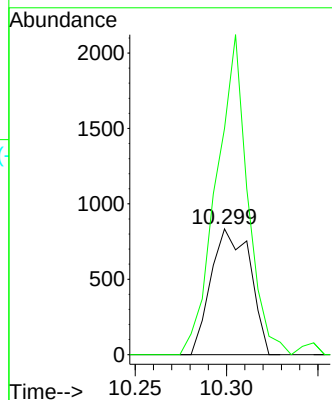
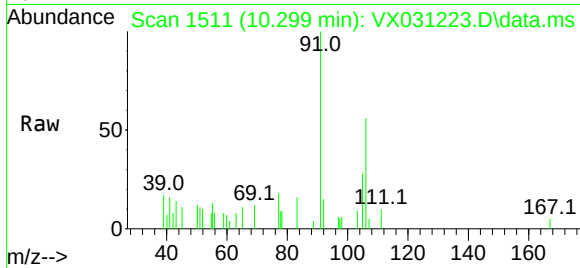




#68
m/p-Xylenes
Concen: 0.616 ug/l
RT: 10.299 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

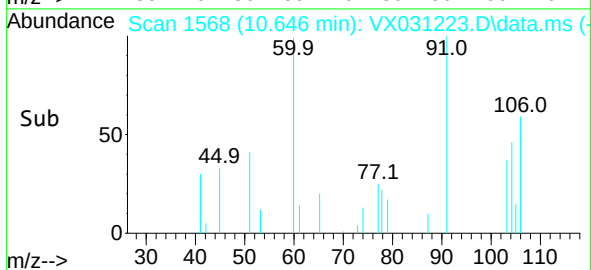
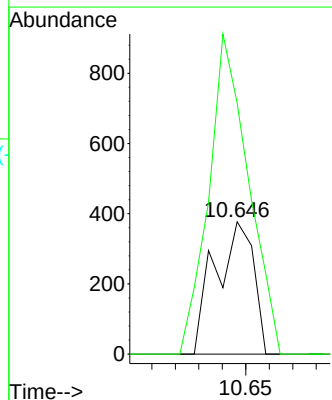
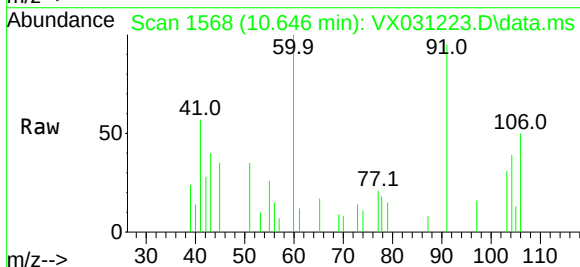
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

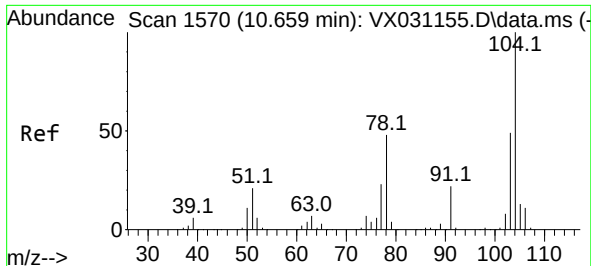
Tgt Ion:106 Resp: 1243
Ion Ratio Lower Upper
106 100
91 204.1 158.2 237.4



#69
o-Xylene
Concen: 0.213 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion:106 Resp: 428
Ion Ratio Lower Upper
106 100
91 249.3 103.8 311.6

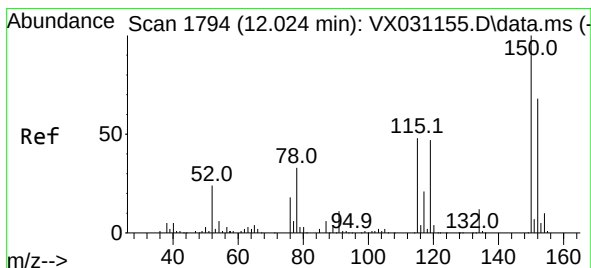
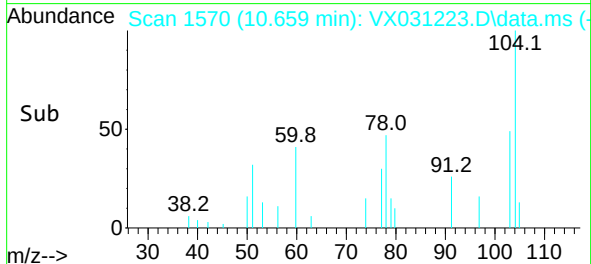
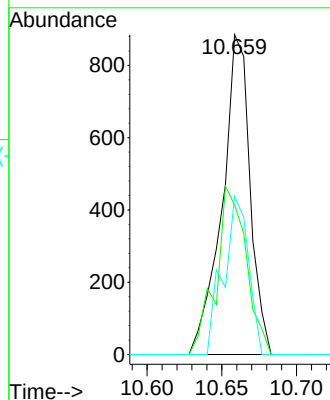
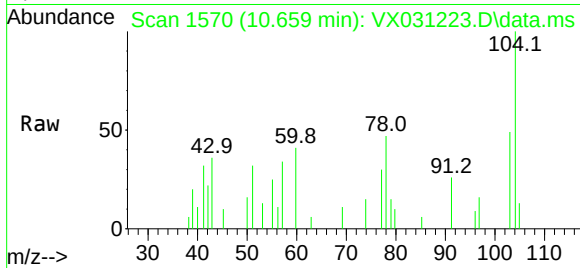




#70
Styrene
Concen: 0.355 ug/l
RT: 10.659 min Scan# 1147
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

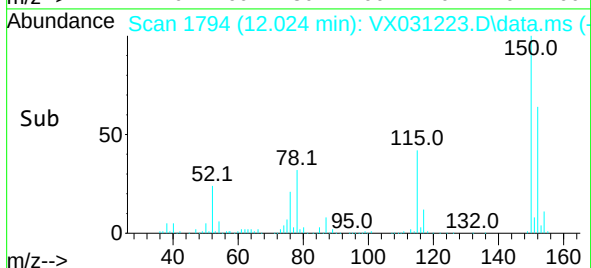
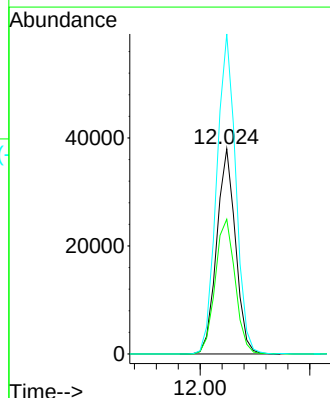
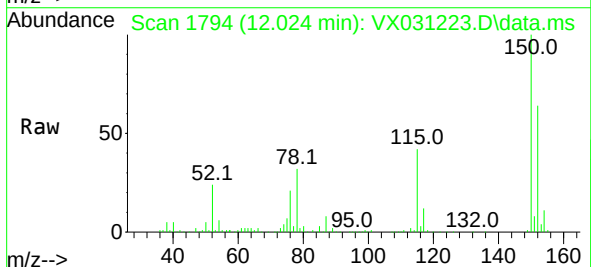
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

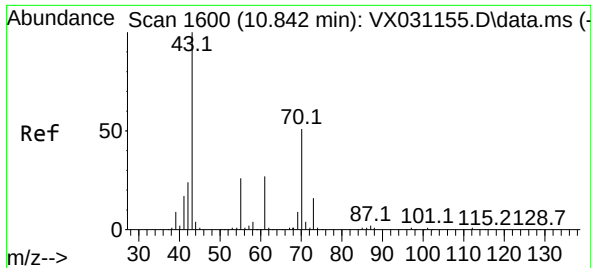
Tgt Ion:104 Resp: 1147
Ion Ratio Lower Upper
104 100
78 56.8 37.8 56.8#
103 44.6 44.5 66.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion:152 Resp: 45221
Ion Ratio Lower Upper
152 100
115 69.7 40.5 121.5
150 158.5 0.0 347.0

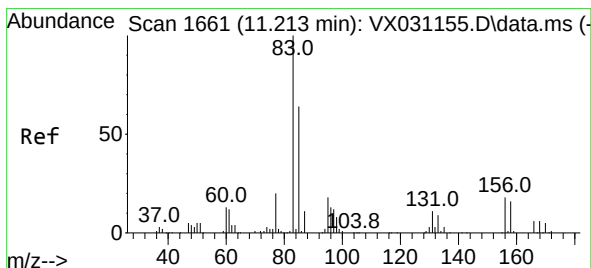
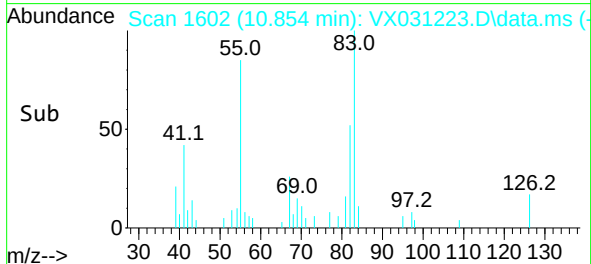
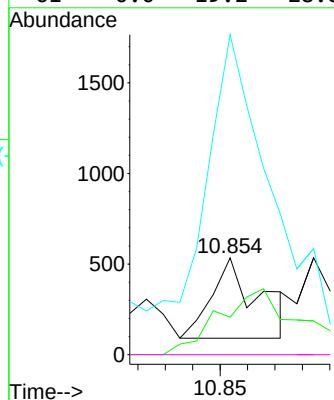
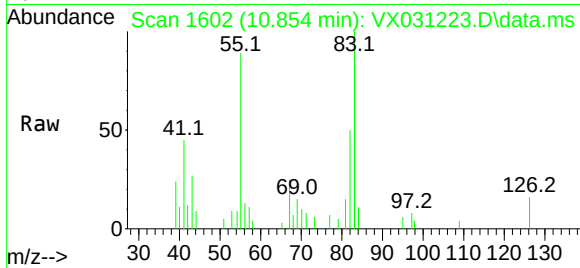




#74
N-amy1 acetate
Concen: 0.429 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

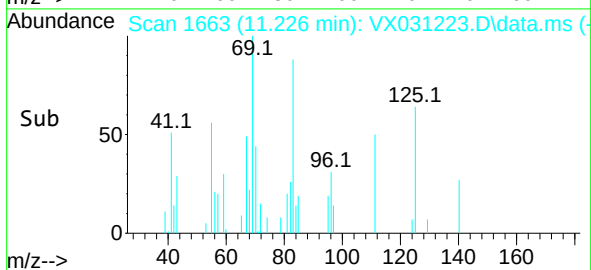
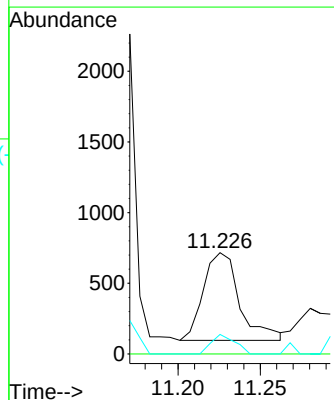
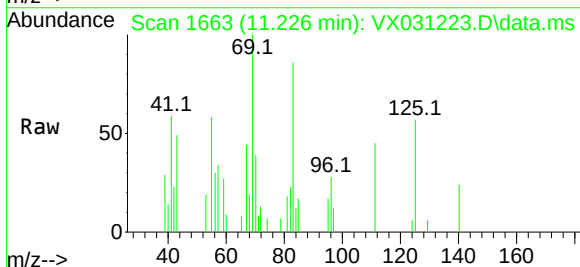
Instrument :
MSVOA_X
ClientSampleId :
CLI-107

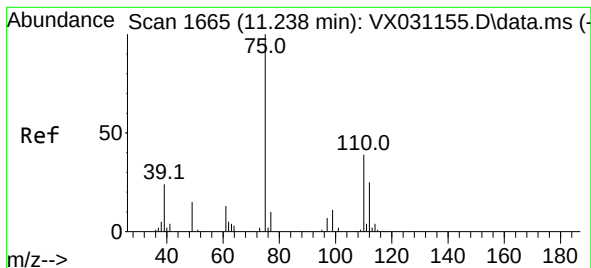
Tgt Ion: 43	Resp: 536
Ion Ratio	Lower Upper
43 100	
70 150.0	32.3 48.5#
55 469.6	18.4 27.6#
61 0.0	19.2 28.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.777 ug/l
RT: 11.226 min Scan# 1663
Delta R.T. 0.012 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Tgt Ion: 83	Resp: 953
Ion Ratio	Lower Upper
83 100	
131 0.0	4.5 13.7#
85 14.6	32.5 97.5#





#76

1,2,3-Trichloropropane

Concen: 39.585 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

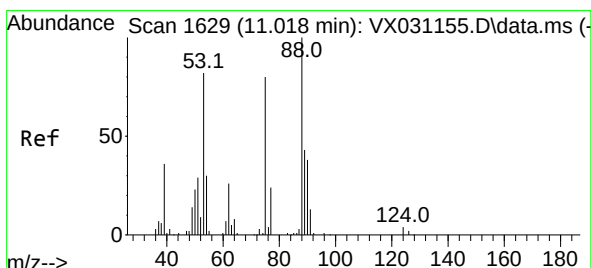
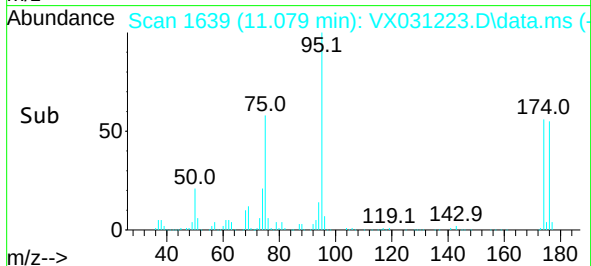
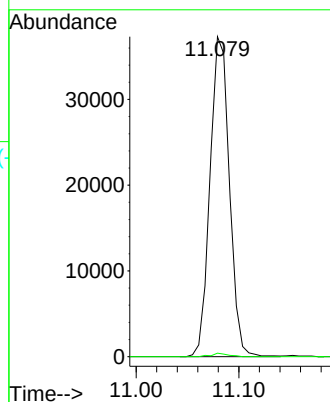
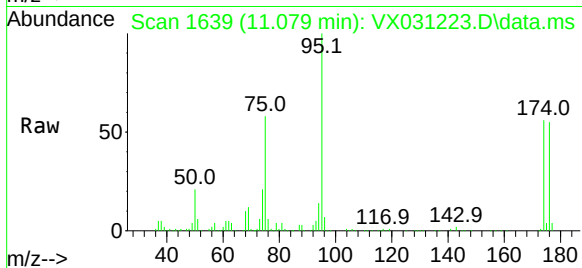
CLI-107

Tgt Ion: 75 Resp: 48854

Ion Ratio Lower Upper

75 100

77 0.9 19.8 59.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 127.657 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

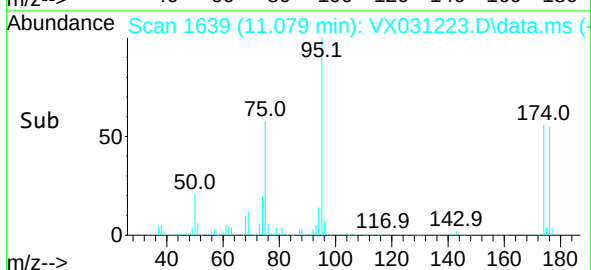
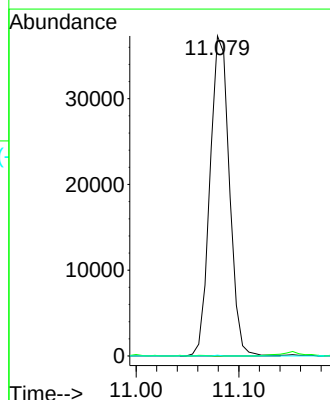
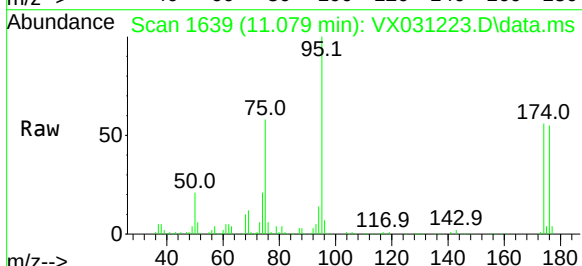
Tgt Ion: 75 Resp: 48854

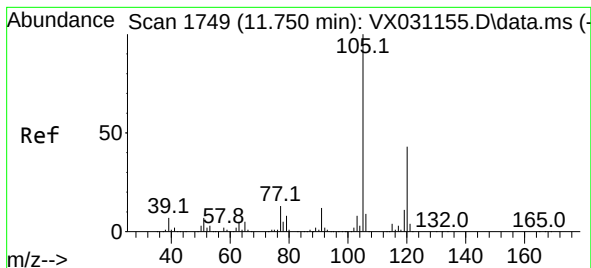
Ion Ratio Lower Upper

75 100

53 0.1 74.2 111.4#

89 0.1 34.8 52.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.461 ug/l

RT: 11.750 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX031223.D

Acq: 08 Sep 2022 19:48

Instrument :

MSVOA_X

ClientSampleId :

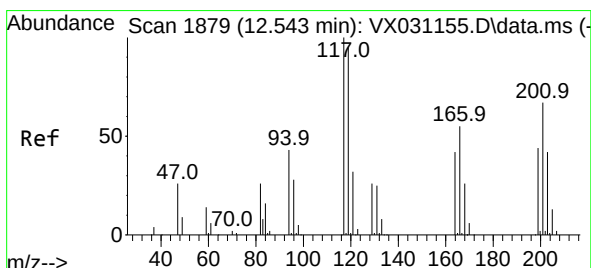
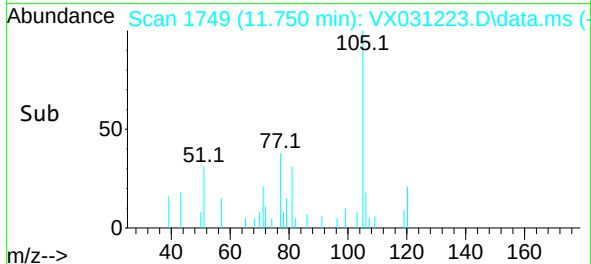
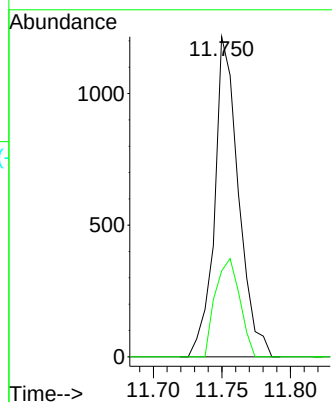
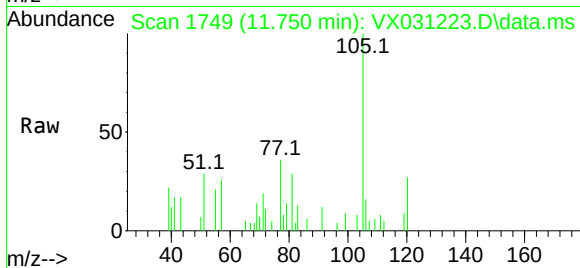
CLI-107

Tgt Ion:105 Resp: 1480

Ion Ratio Lower Upper

105 100

120 31.0 22.9 68.8



#90

Hexachloroethane

Concen: 0.801 ug/l

RT: 12.414 min Scan# 1858

Delta R.T. -0.128 min

Lab File: VX031223.D

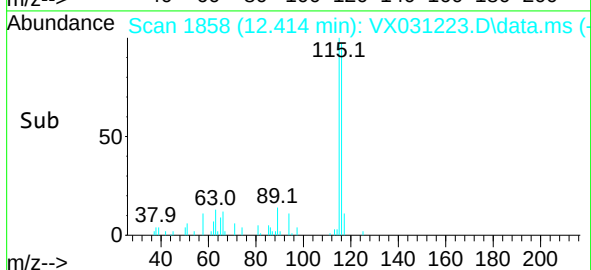
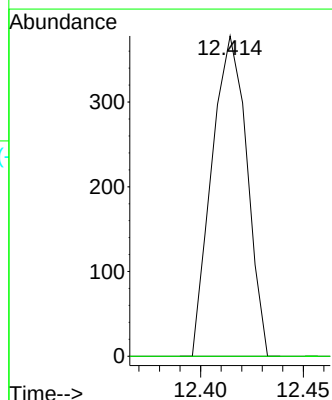
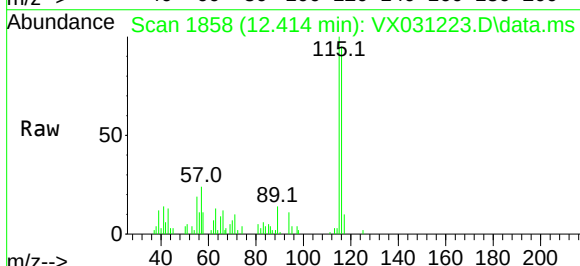
Acq: 08 Sep 2022 19:48

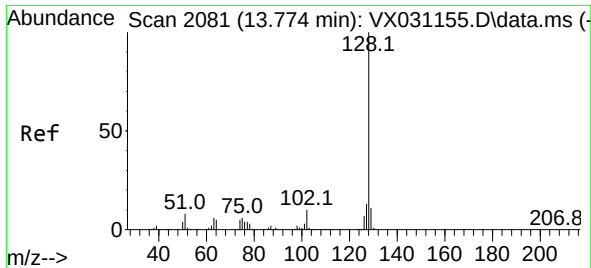
Tgt Ion:117 Resp: 448

Ion Ratio Lower Upper

117 100

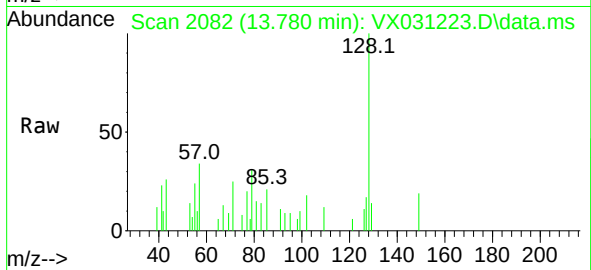
201 0.0 34.2 102.5#





#95
Naphthalene
Concen: 0.348 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX031223.D
Acq: 08 Sep 2022 19:48

Instrument :
MSVOA_X
ClientSampleId :
CLI-107



Tgt Ion:128 Resp: 1241
Ion Ratio Lower Upper
128 100
127 17.9 10.2 15.2#
129 10.3 8.6 13.0

