

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071425\
 Data File : VX046976.D
 Acq On : 14 Jul 2025 16:06
 Operator : JC/MD
 Sample : Q2578-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-A5-01-G

Quant Time: Jul 15 01:22:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

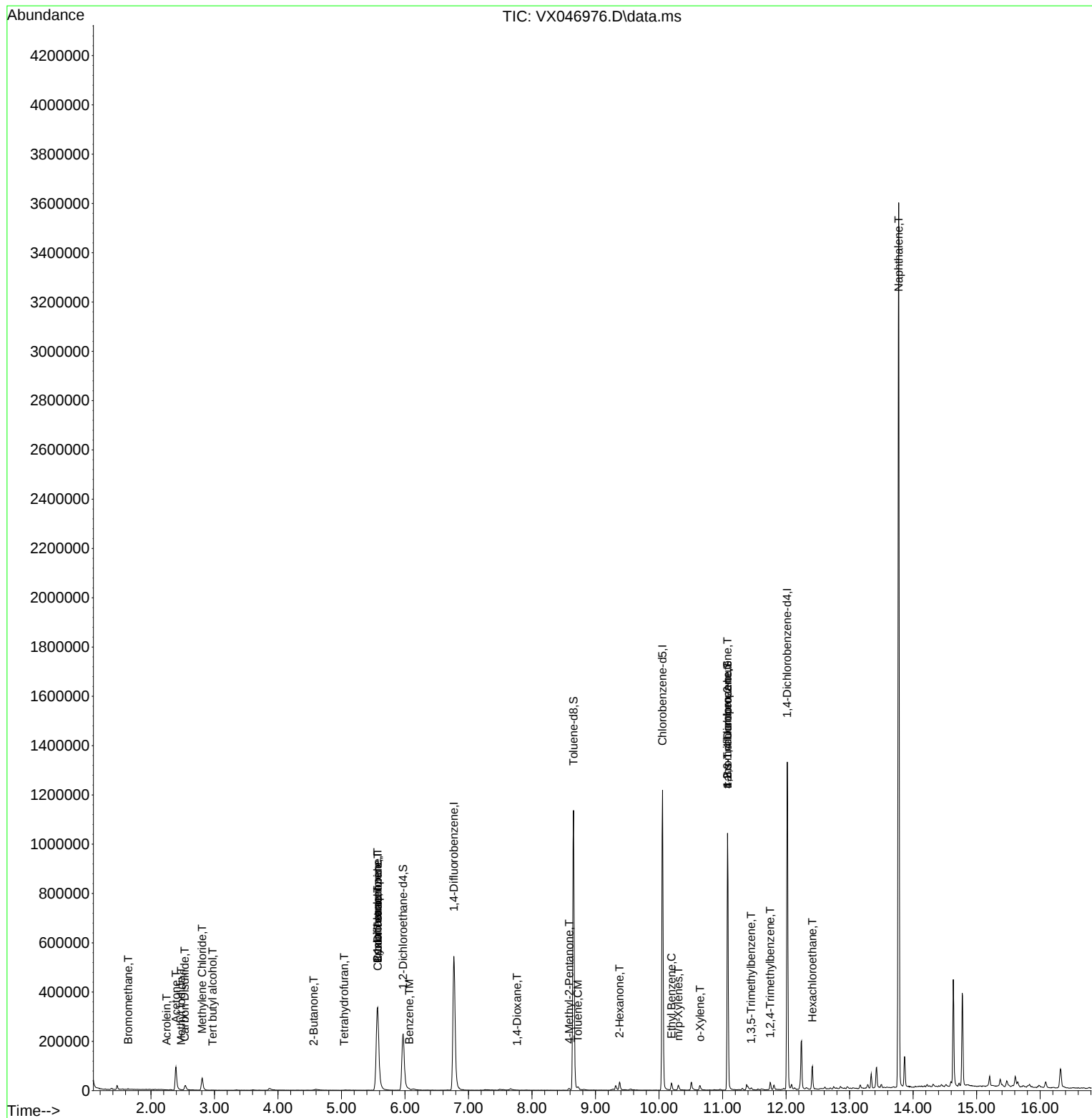
Internal Standards						
1) Pentafluorobenzene	5.568	168	343589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	585898	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	532745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	270125	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	239119	52.679	ug/l	0.01
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.360%	
35) Dibromofluoromethane	5.397	113	57	0.014	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 0.020%#	
50) Toluene-d8	8.653	98	676860	48.237	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.480%	
62) 4-Bromofluorobenzene	11.079	95	277017	51.944	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.880%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.642	94	1397	0.556	ug/l	99
10) Methyl Iodide	2.477	142	971	0.231	ug/l #	80
11) Tert butyl alcohol	2.971	59	374	1.256	ug/l #	72
13) Acrolein	2.245	56	80	3.075	ug/l #	1
16) Acetone	2.392	43	115533	81.941	ug/l	94
17) Carbon Disulfide	2.532	76	4461	0.457	ug/l	100
20) Methylene Chloride	2.806	84	24180	5.800	ug/l	95
25) 2-Butanone	4.562	43	399	0.212	ug/l #	50
29) Tetrahydrofuran	5.044	42	459	0.383	ug/l #	61
31) Cyclohexane	5.568	56	6665	1.027	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	27744	5.170	ug/l #	51
38) Carbon Tetrachloride	5.574	117	35479	6.254	ug/l #	14
40) Benzene	6.068	78	3839	0.237	ug/l #	83
49) 1,4-Dioxane	7.763	88	74	1.767	ug/l #	1
51) 4-Methyl-2-Pentanone	8.586	43	5454	1.320	ug/l	100
52) Toluene	8.720	92	3704	0.368	ug/l	100
59) 2-Hexanone	9.378	43	23748	8.666	ug/l #	24
67) Ethyl Benzene	10.195	91	17072	0.865	ug/l	92
68) m/p-Xylenes	10.305	106	4931	0.663	ug/l	88
69) o-Xylene	10.646	106	4237	0.590	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	139759	33.485	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.451	105	4166	0.270	ug/l	88
81) trans-1,4-Dichloro-2-b...	11.079	75	139759	89.856	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	13024	0.835	ug/l	96
90) Hexachloroethane	12.414	117	2809	0.942	ug/l #	14
95) Naphthalene	13.774	128	2114688	137.804	ug/l	100

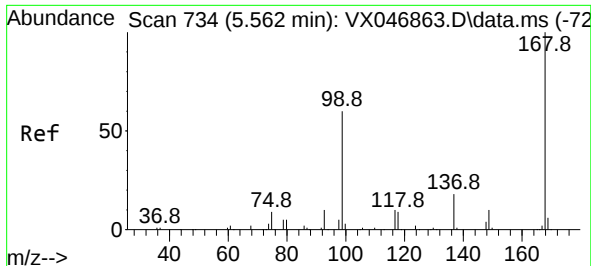
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

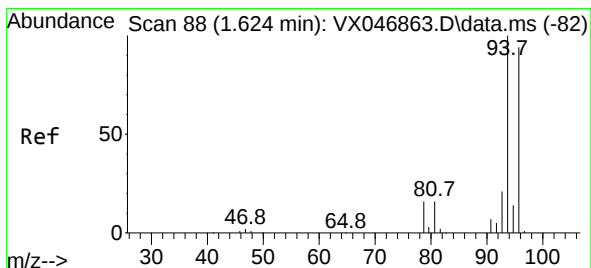
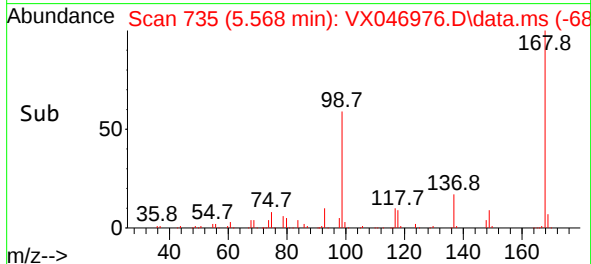
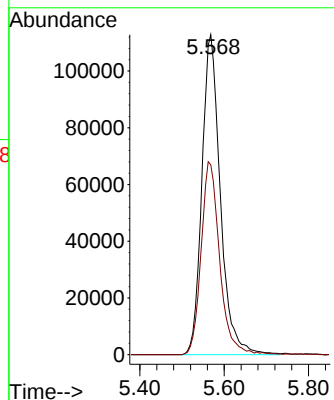
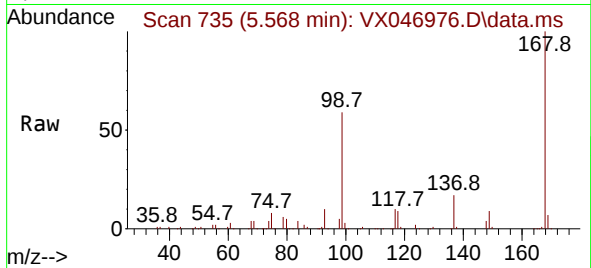




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

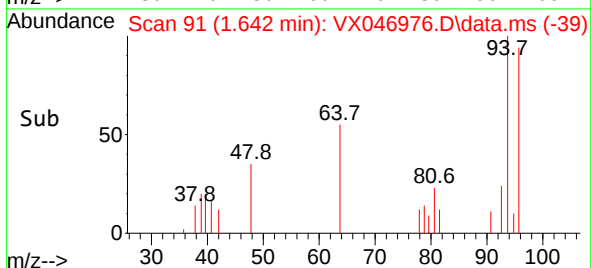
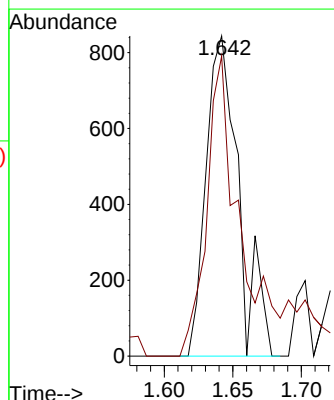
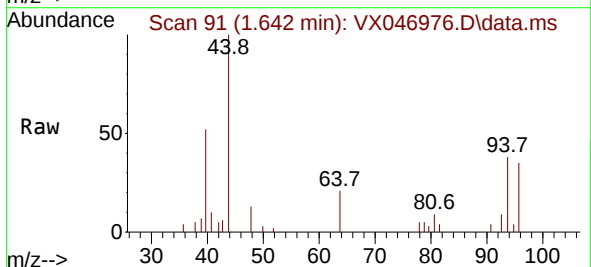
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

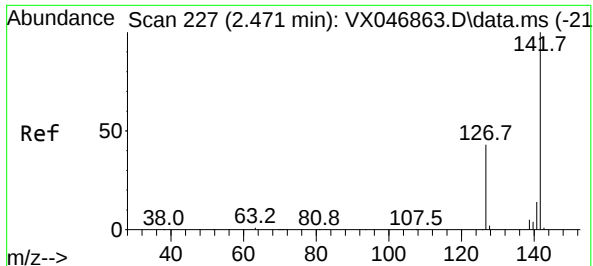
Tgt Ion:168 Resp: 343589
Ion Ratio Lower Upper
168 100
99 59.3 48.8 73.2



#5
Bromomethane
Concen: 0.556 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 94 Resp: 1397
Ion Ratio Lower Upper
94 100
96 93.7 75.5 113.3

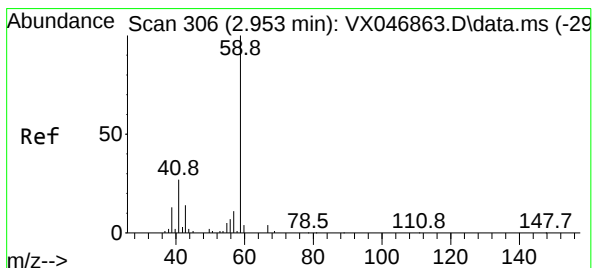
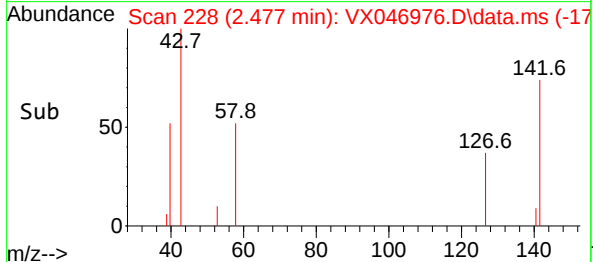
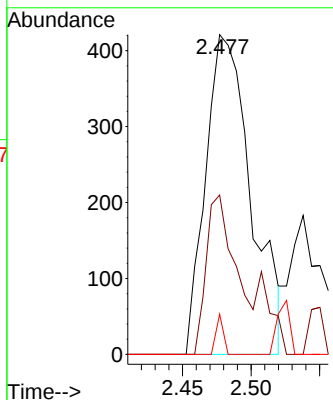
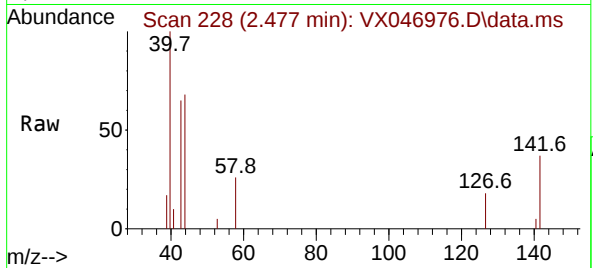




#10
Methyl Iodide
Concen: 0.231 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

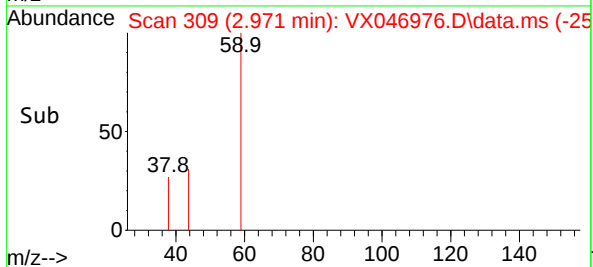
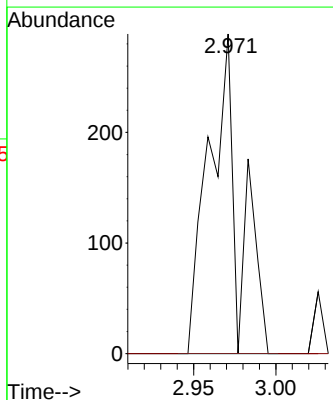
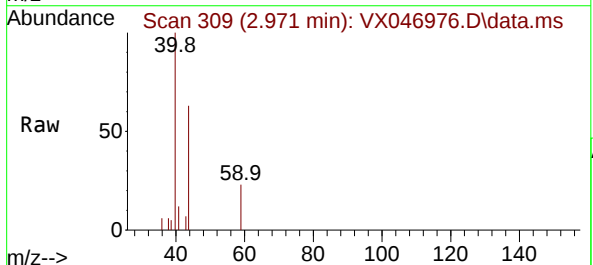
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

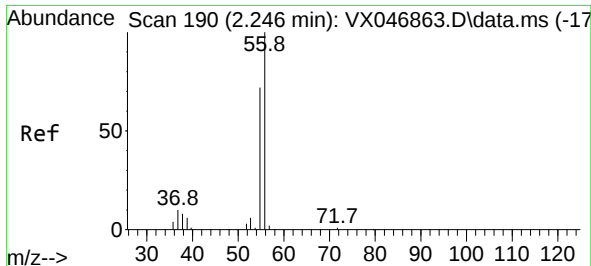
Tgt Ion:142 Resp: 971
Ion Ratio Lower Upper
142 100
127 33.0 34.9 52.3#
141 2.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 1.256 ug/l
RT: 2.971 min Scan# 309
Delta R.T. 0.018 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 59 Resp: 374
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

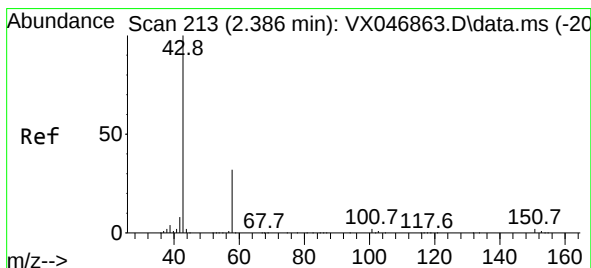
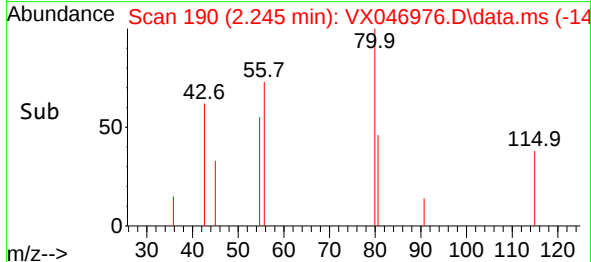
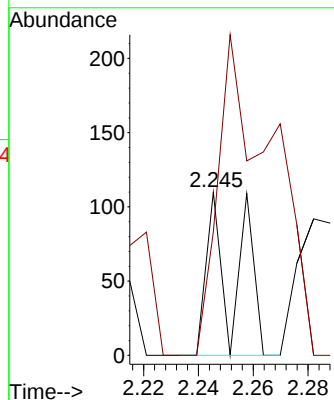
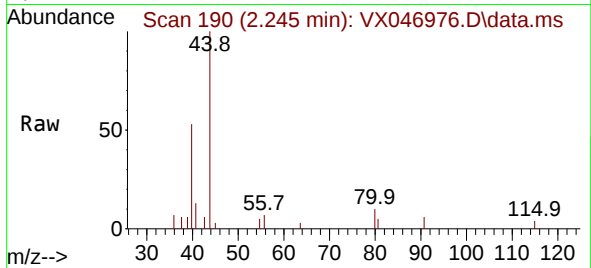




#13
Acrolein
Concen: 3.075 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.001 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

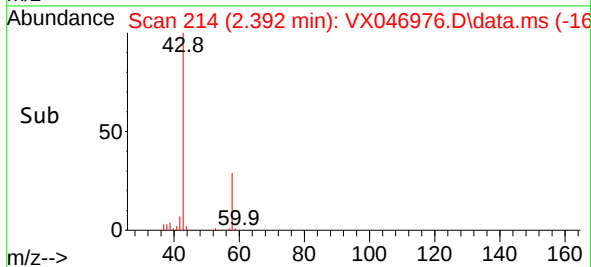
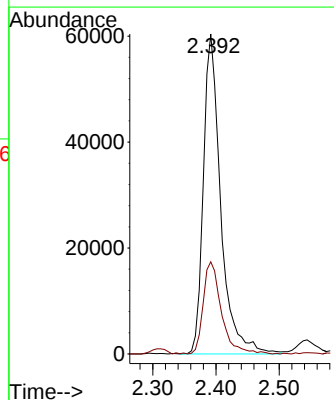
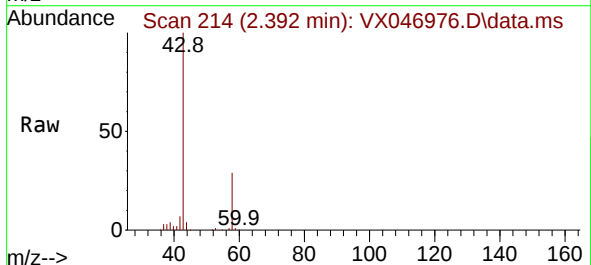
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

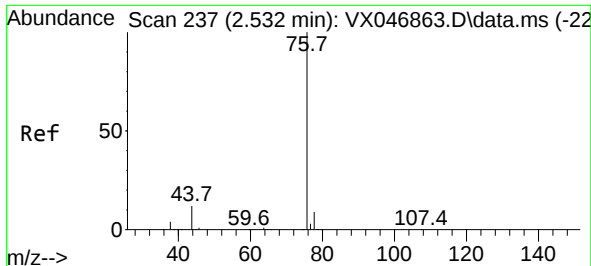
Tgt Ion: 56 Resp: 80
Ion Ratio Lower Upper
56 100
55 371.3 55.5 83.3#



#16
Acetone
Concen: 81.941 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 43 Resp: 115533
Ion Ratio Lower Upper
43 100
58 28.8 25.8 38.6

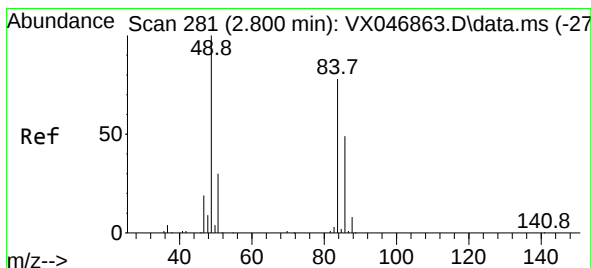
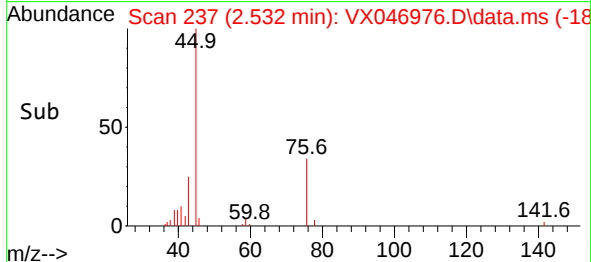
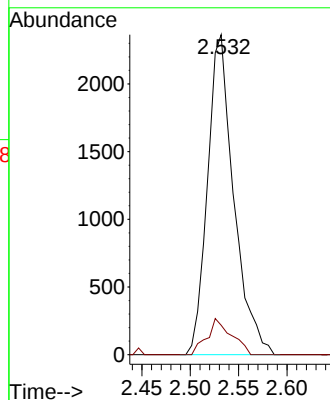
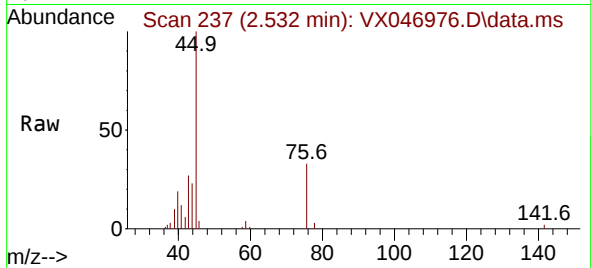




#17
Carbon Disulfide
Concen: 0.457 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

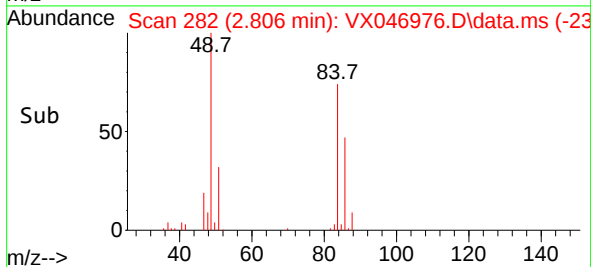
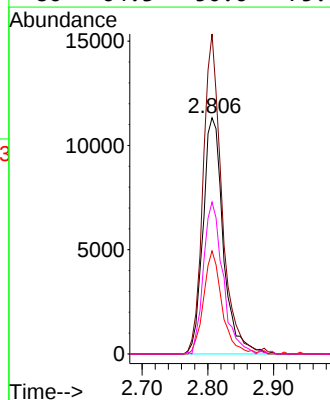
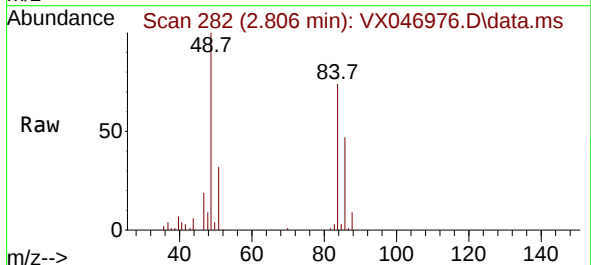
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

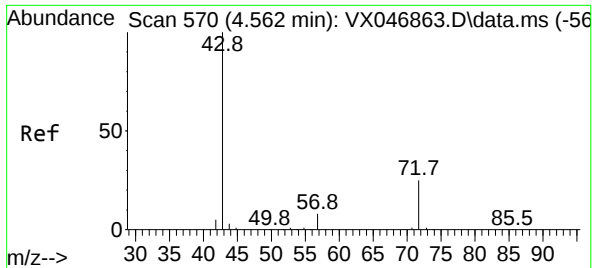
Tgt Ion: 76 Resp: 4461
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.2



#20
Methylene Chloride
Concen: 5.800 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 84 Resp: 24180
Ion Ratio Lower Upper
84 100
49 135.5 102.8 154.2
51 43.6 31.1 46.7
86 64.3 50.6 75.8





#25

2-Butanone

Concen: 0.212 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX046976.D

Acq: 14 Jul 2025 16:06

Instrument :

MSVOA_X

ClientSampleId :

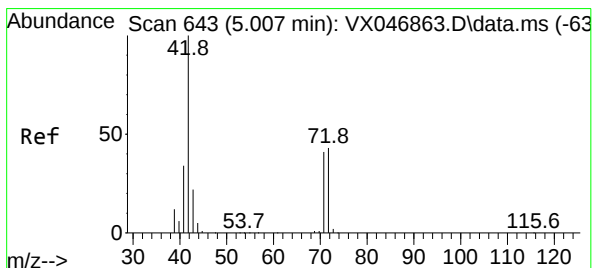
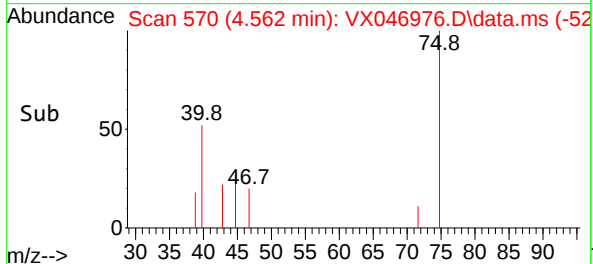
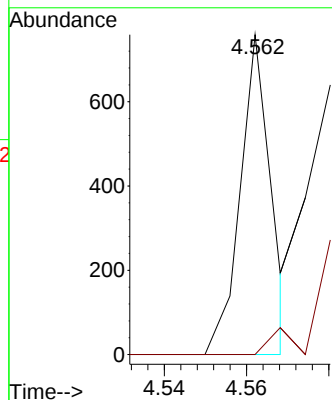
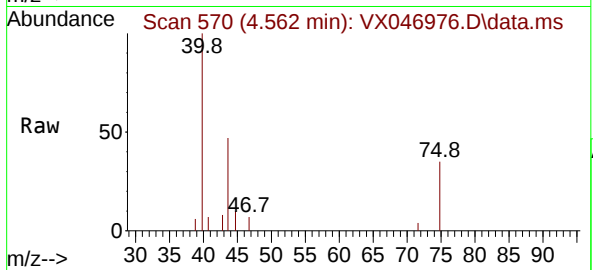
WC-A5-01-G

Tgt Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

72 0.0 20.0 30.0#



#29

Tetrahydrofuran

Concen: 0.383 ug/l

RT: 5.044 min Scan# 649

Delta R.T. 0.036 min

Lab File: VX046976.D

Acq: 14 Jul 2025 16:06

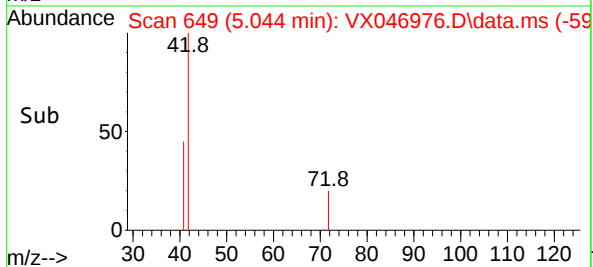
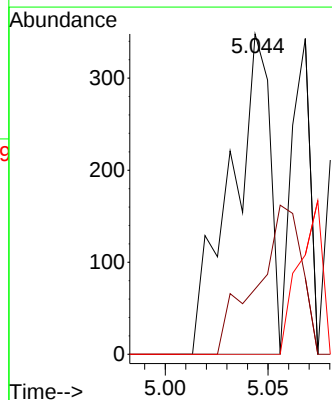
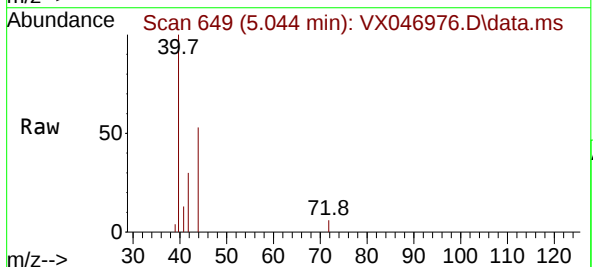
Tgt Ion: 42 Resp: 459

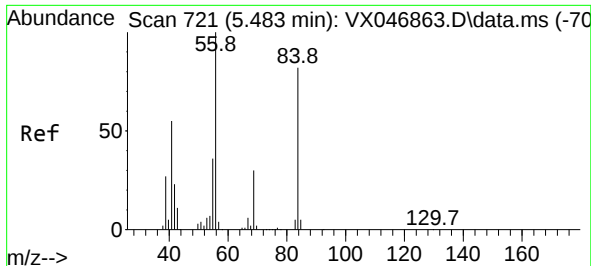
Ion Ratio Lower Upper

42 100

72 54.0 35.1 52.7#

71 0.0 31.9 47.9#

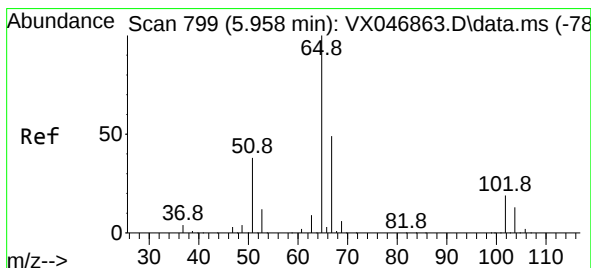
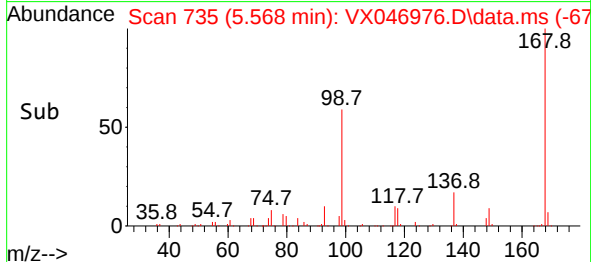
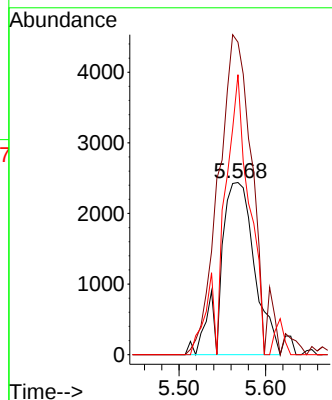
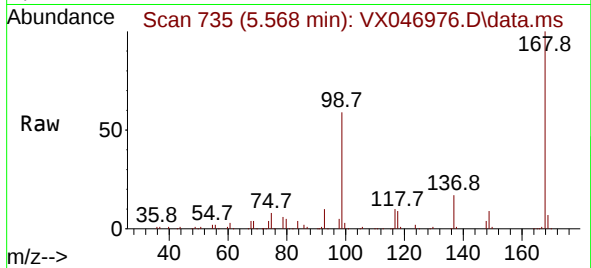




#31
Cyclohexane
Concen: 1.027 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.085 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

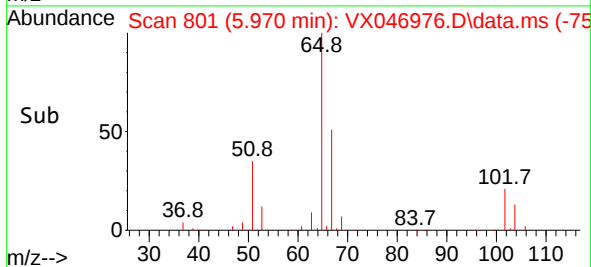
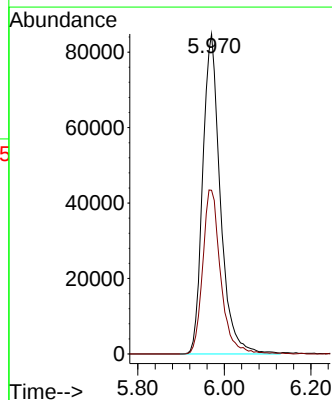
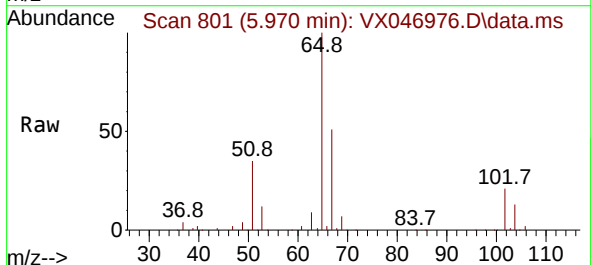
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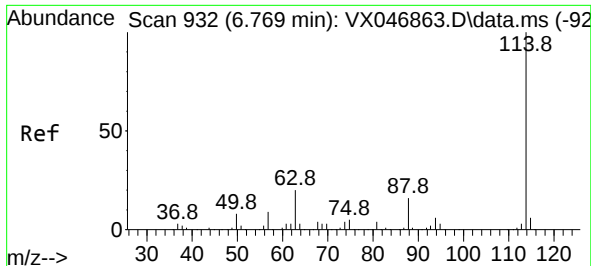
Tgt Ion: 56 Resp: 6665
Ion Ratio Lower Upper
56 100
69 180.5 24.0 36.0#
84 159.1 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 52.679 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.012 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 65 Resp: 239119
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.2

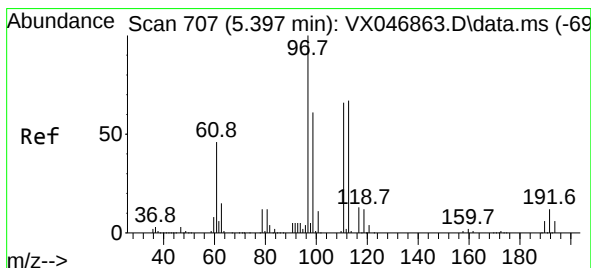
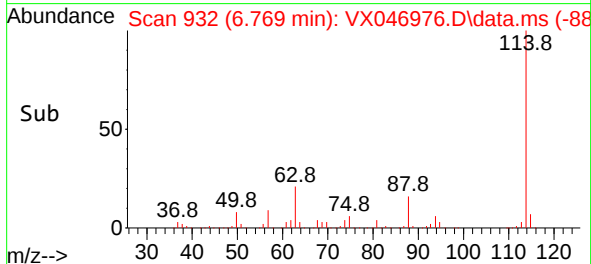
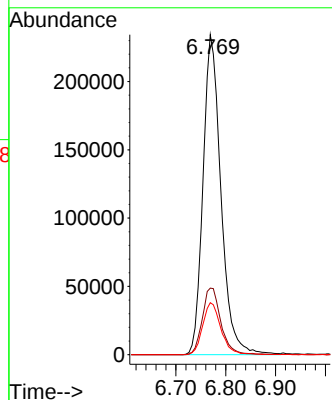
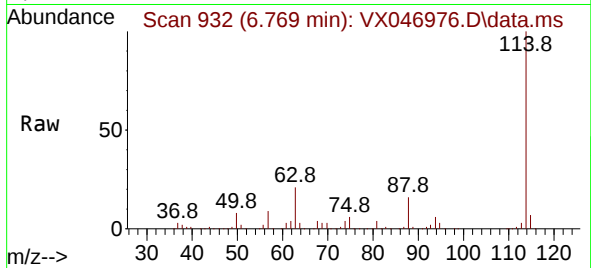




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

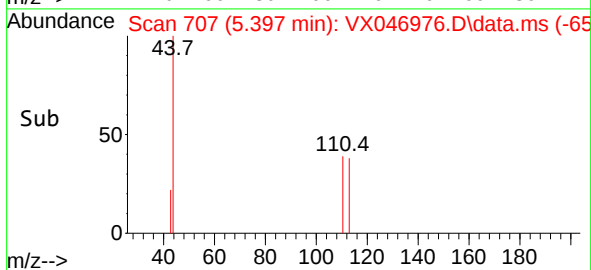
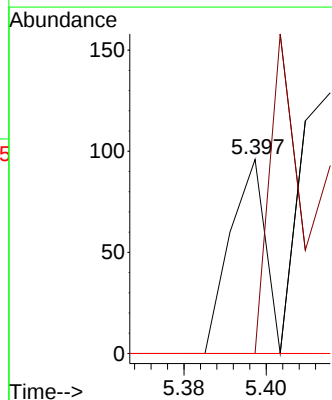
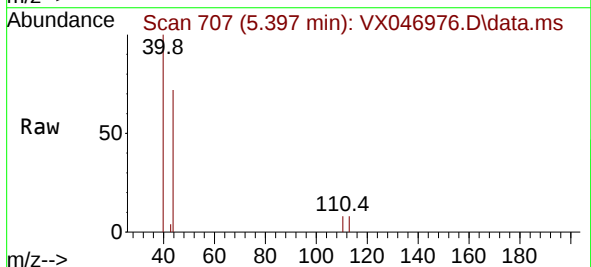
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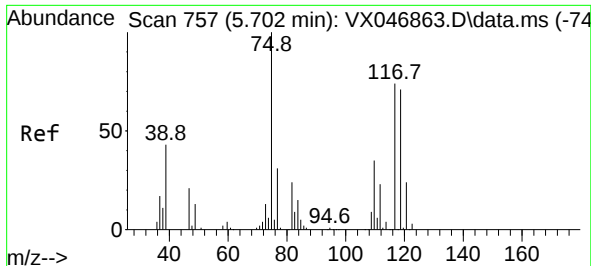
Tgt Ion:114 Resp: 585898
Ion Ratio Lower Upper
114 100
63 20.8 0.0 40.4
88 16.2 0.0 31.0



#35
Dibromofluoromethane
Concen: 0.014 ug/l
RT: 5.397 min Scan# 707
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion:113 Resp: 57
Ion Ratio Lower Upper
113 100
111 0.0 81.2 121.8#
192 0.0 15.3 22.9#

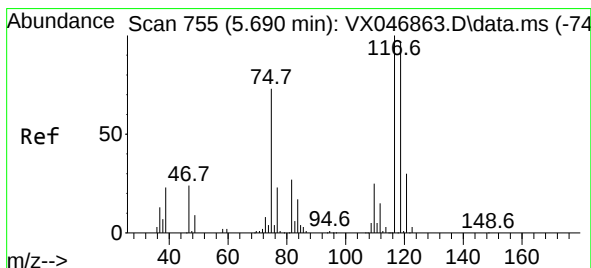
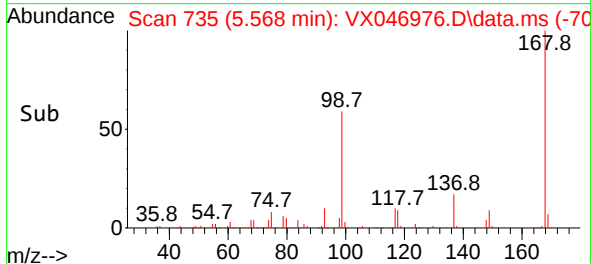
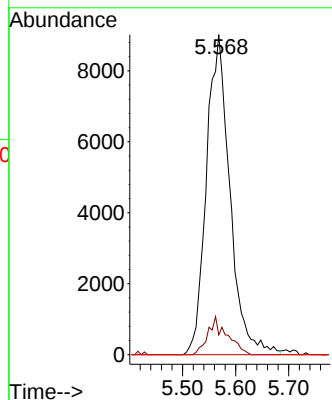
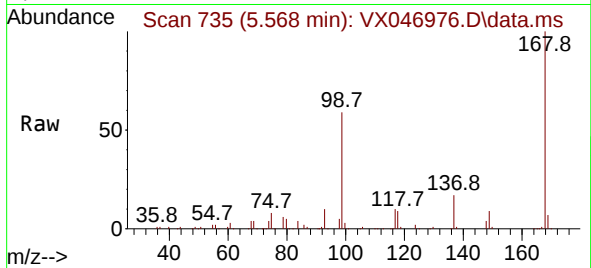




#36
1,1-Dichloropropene
Concen: 5.170 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

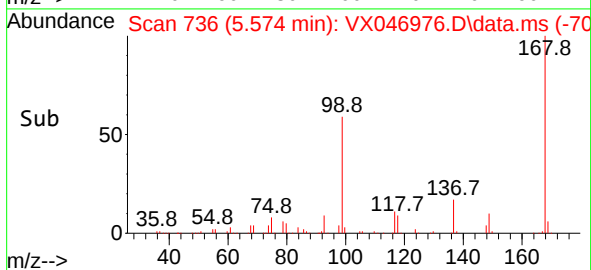
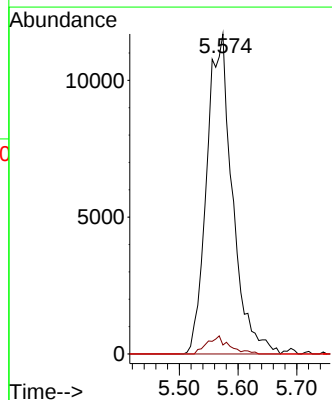
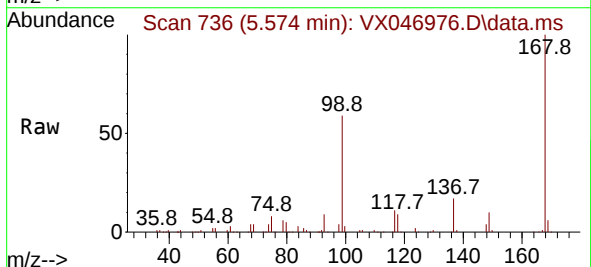
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

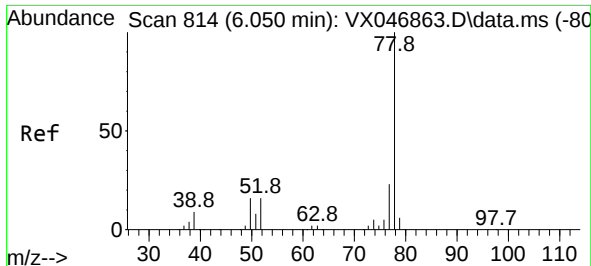
Tgt Ion: 75 Resp: 27744
Ion Ratio Lower Upper
75 100
110 9.6 17.3 51.9#
77 0.0 24.2 36.4#



#38
Carbon Tetrachloride
Concen: 6.254 ug/l
RT: 5.574 min Scan# 736
Delta R.T. -0.116 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 117 Resp: 35479
Ion Ratio Lower Upper
117 100
119 2.8 76.6 114.8#
121 0.0 24.1 36.1#

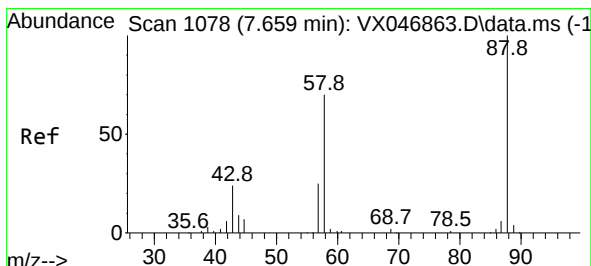
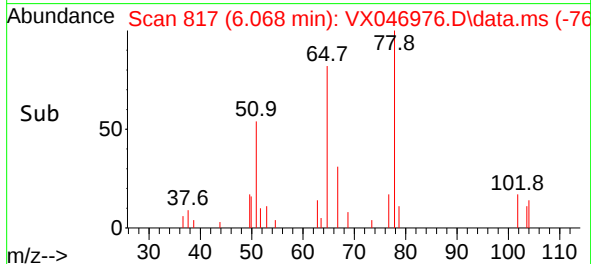
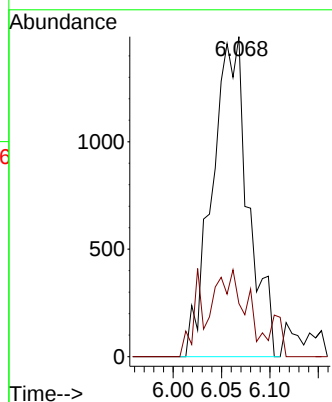
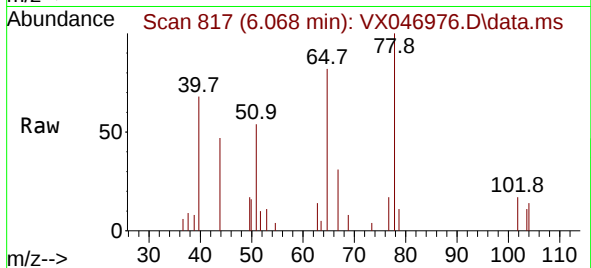




#40
Benzene
Concen: 0.237 ug/l
RT: 6.068 min Scan# 814
Delta R.T. 0.018 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

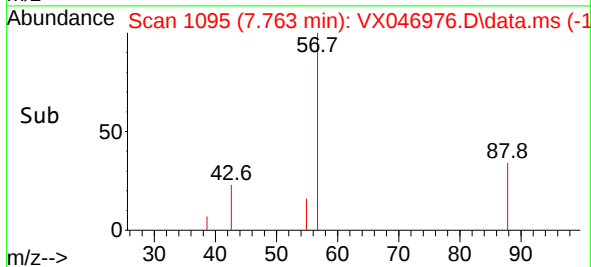
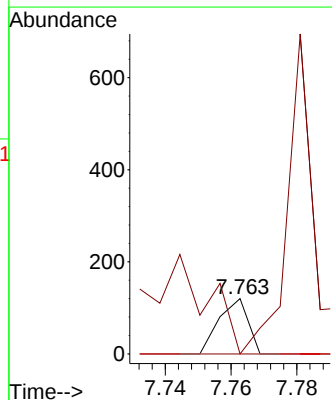
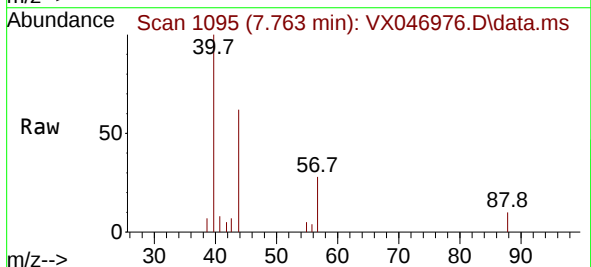
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

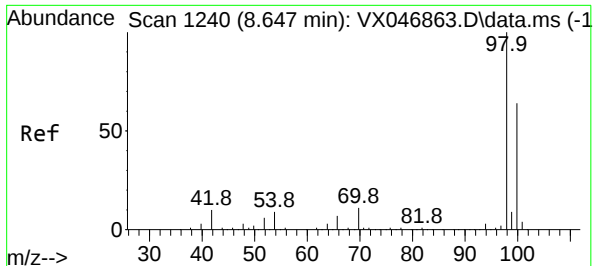
Tgt Ion: 78 Resp: 3839
Ion Ratio Lower Upper
78 100
77 14.9 18.7 28.1#



#49
1,4-Dioxane
Concen: 1.767 ug/l
RT: 7.763 min Scan# 1095
Delta R.T. 0.104 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 520.3 31.7 47.5#
58 0.0 57.5 86.3#

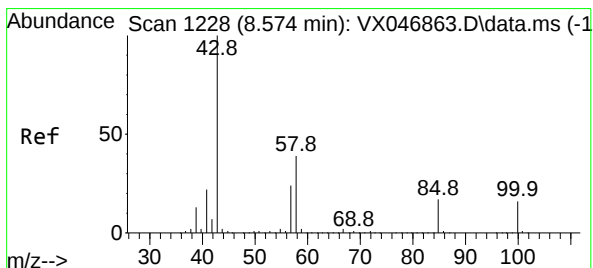
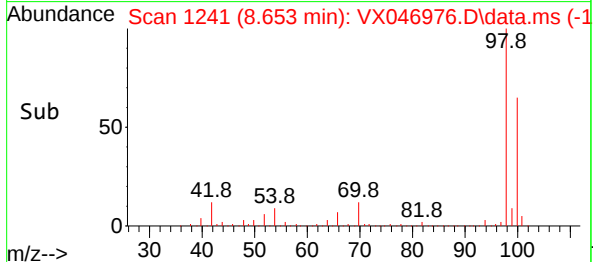
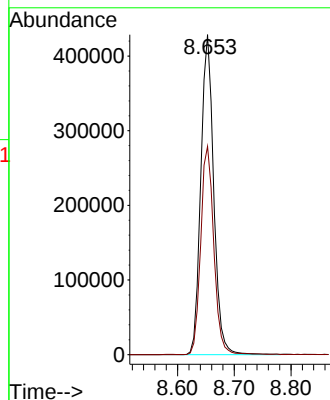
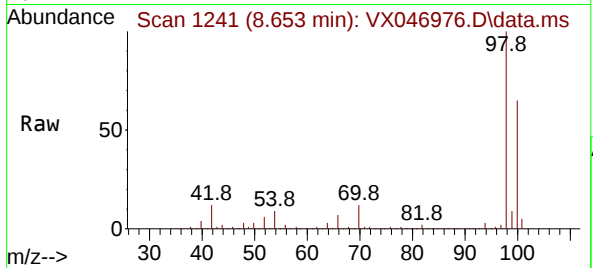




#50
Toluene-d8
Concen: 48.237 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

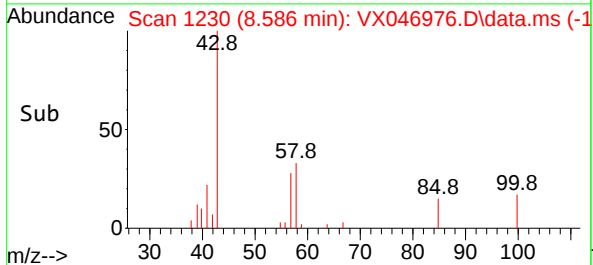
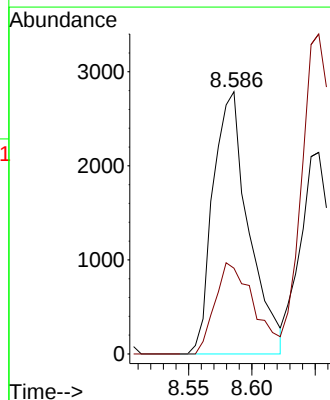
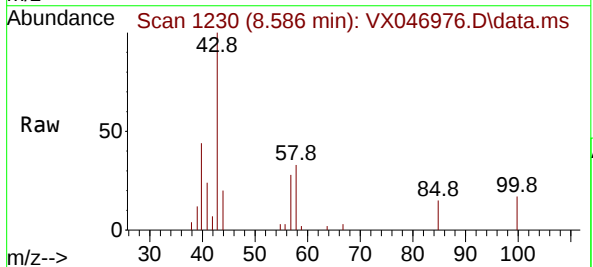
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

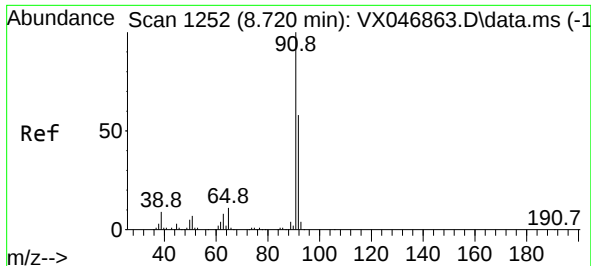
Tgt Ion: 98 Resp: 676860
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 1.320 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 43 Resp: 5454
Ion Ratio Lower Upper
43 100
58 38.2 30.4 45.6

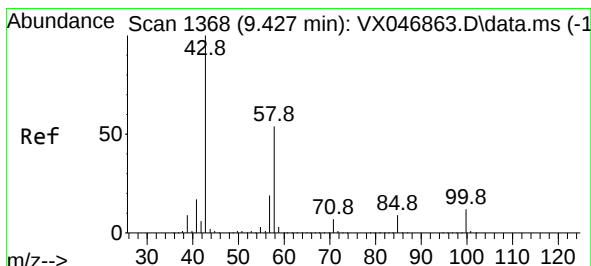
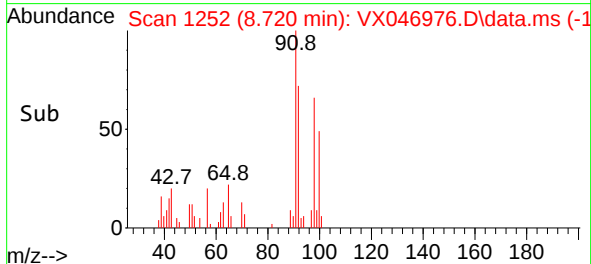
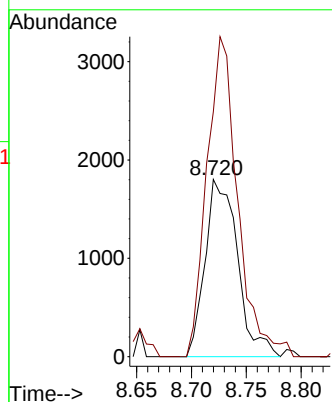
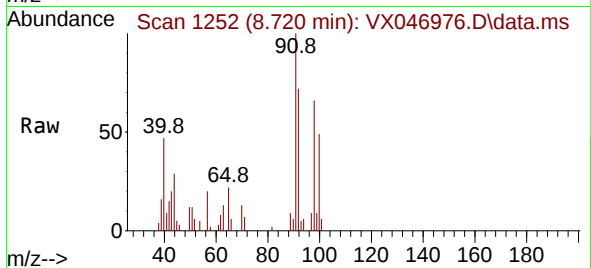




#52
Toluene
Concen: 0.368 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

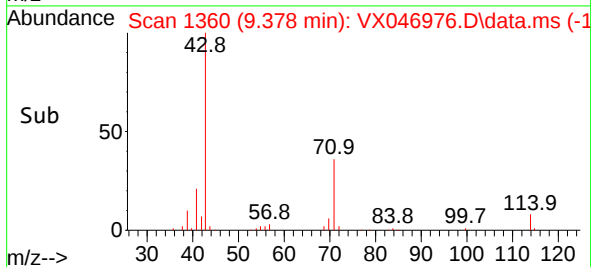
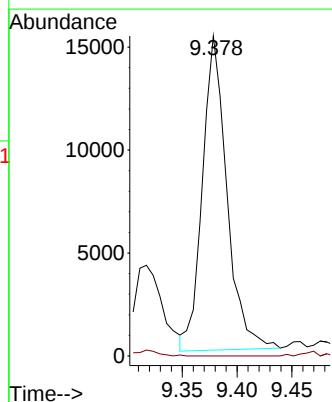
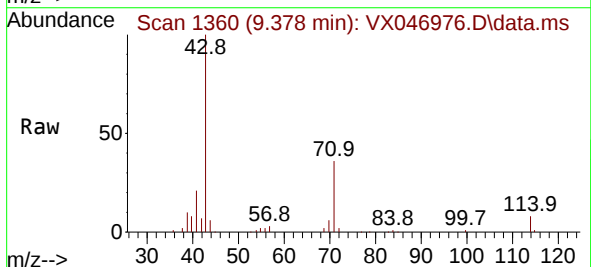
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

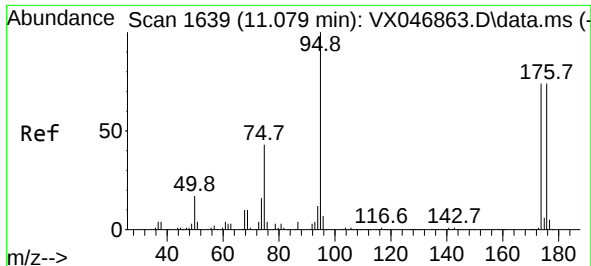
Tgt Ion: 92 Resp: 3704
Ion Ratio Lower Upper
92 100
91 171.8 137.9 206.9



#59
2-Hexanone
Concen: 8.666 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.049 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 43 Resp: 23748
Ion Ratio Lower Upper
43 100
58 0.0 27.1 81.3#

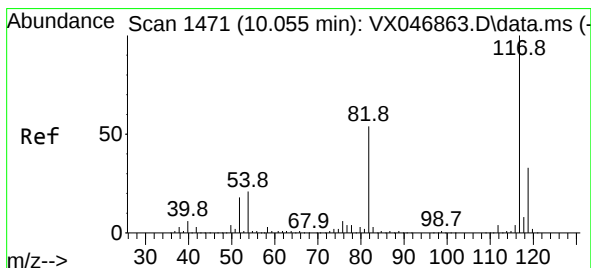
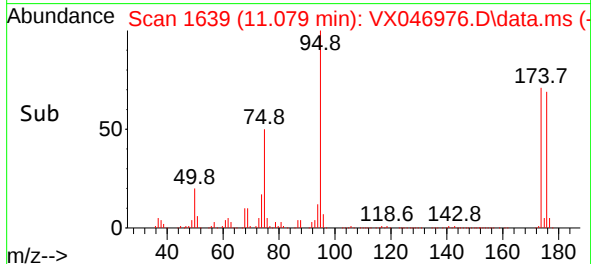
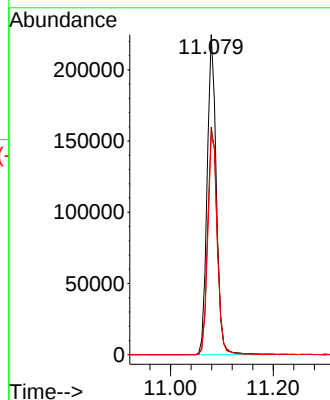
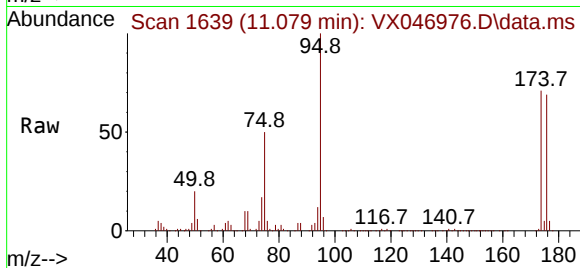




#62
4-Bromofluorobenzene
Concen: 51.944 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

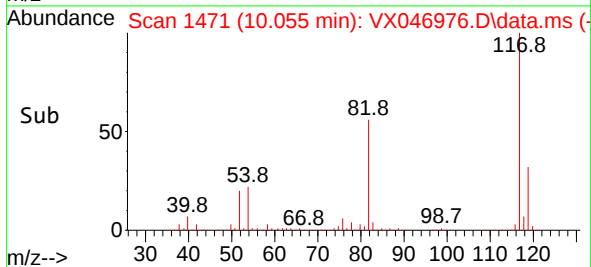
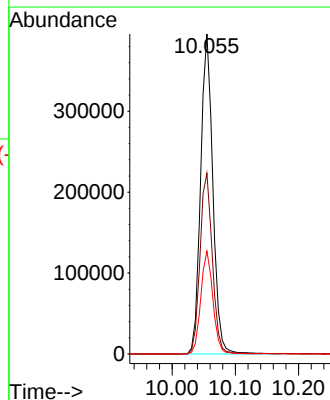
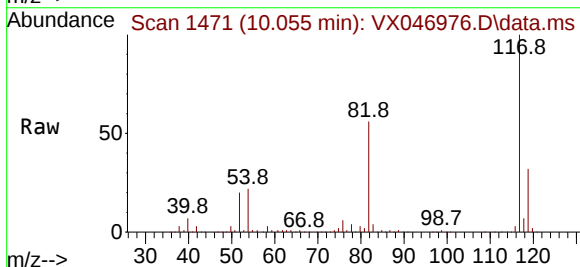
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

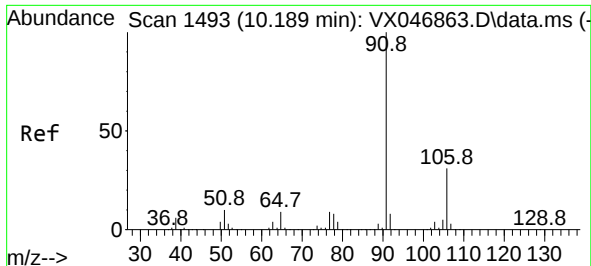
Tgt Ion: 95 Resp: 277017
Ion Ratio Lower Upper
95 100
174 74.5 0.0 152.0
176 71.1 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 117 Resp: 532745
Ion Ratio Lower Upper
117 100
82 56.5 43.3 64.9
119 32.1 26.4 39.6





#67

Ethyl Benzene

Concen: 0.865 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX046976.D

Acq: 14 Jul 2025 16:06

Instrument :

MSVOA_X

ClientSampleId :

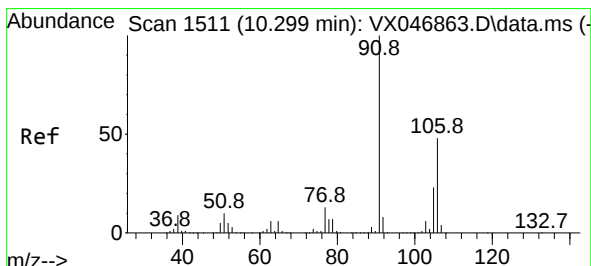
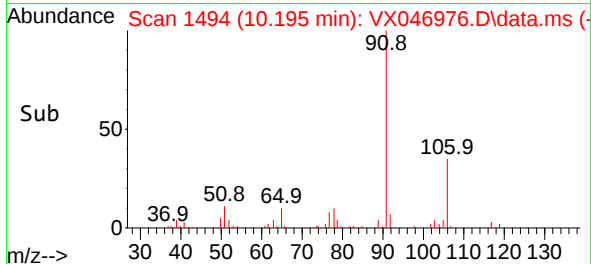
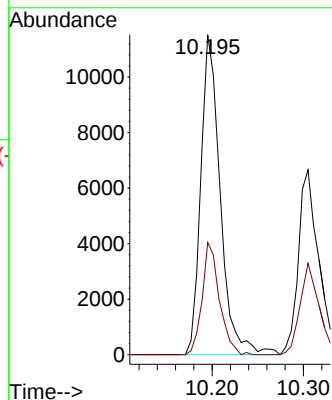
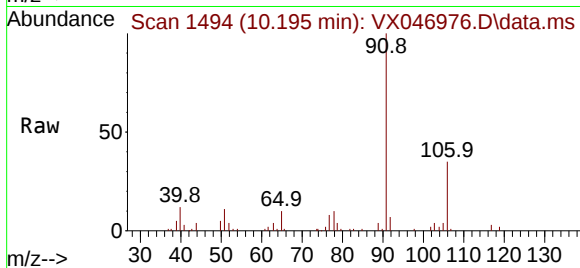
WC-A5-01-G

Tgt Ion: 91 Resp: 17072

Ion Ratio Lower Upper

91 100

106 35.1 24.4 36.6



#68

m/p-Xylenes

Concen: 0.663 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046976.D

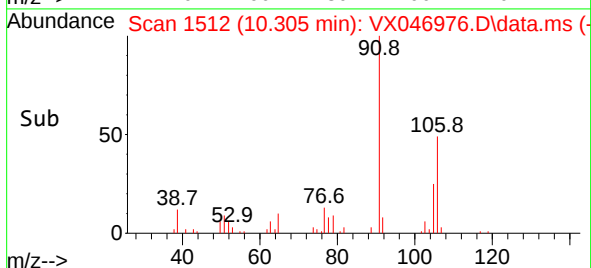
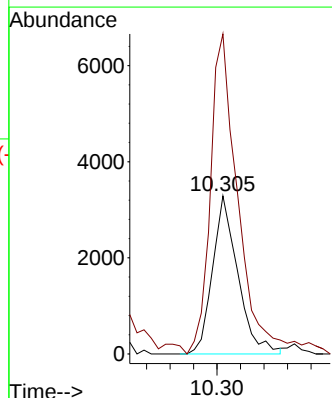
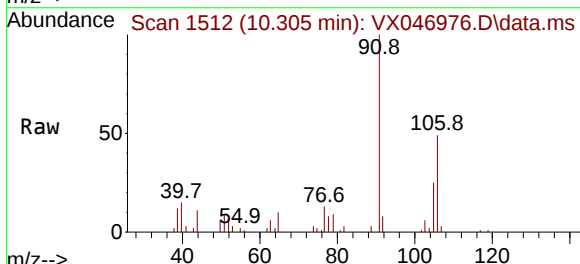
Acq: 14 Jul 2025 16:06

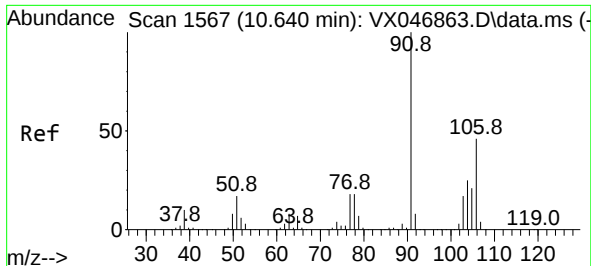
Tgt Ion: 106 Resp: 4931

Ion Ratio Lower Upper

106 100

91 223.7 164.6 246.8

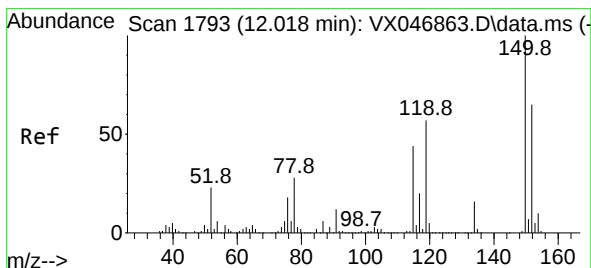
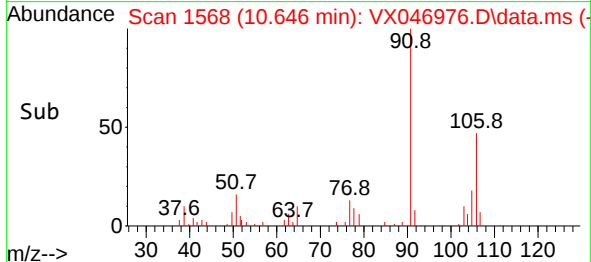
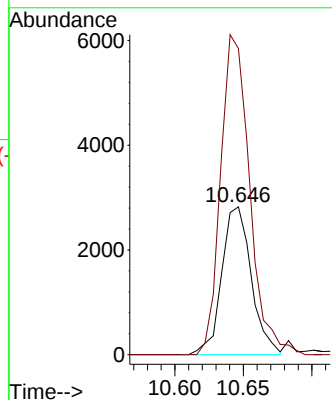
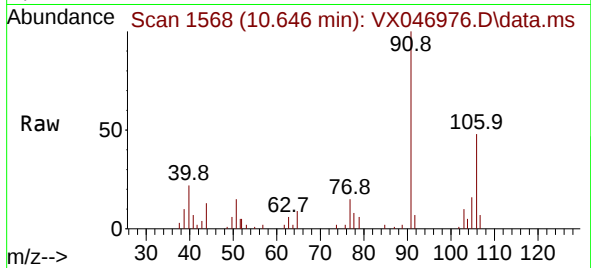




#69
o-Xylene
Concen: 0.590 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

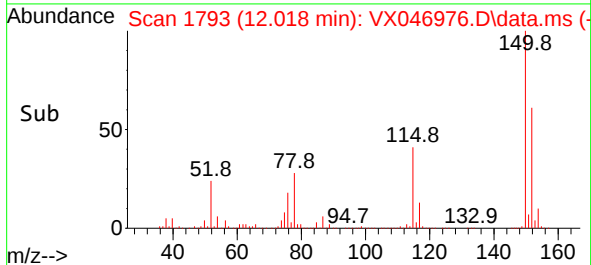
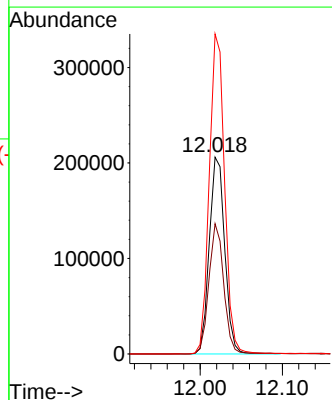
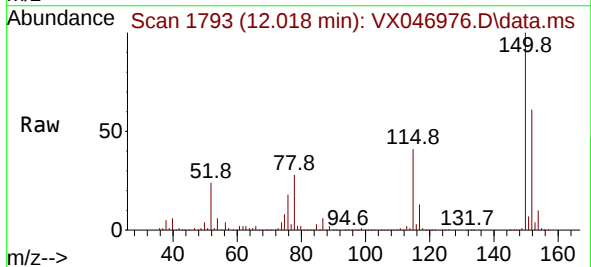
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

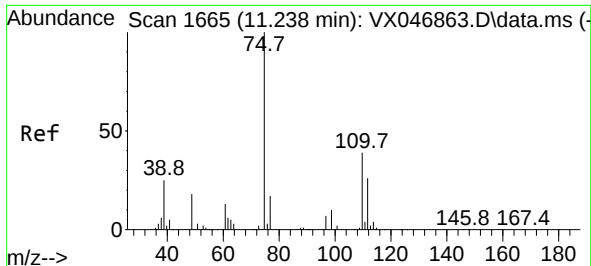
Tgt Ion:106 Resp: 4237
Ion Ratio Lower Upper
106 100
91 212.8 109.5 328.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion:152 Resp: 270125
Ion Ratio Lower Upper
152 100
115 63.4 42.4 127.1
150 161.2 0.0 349.2

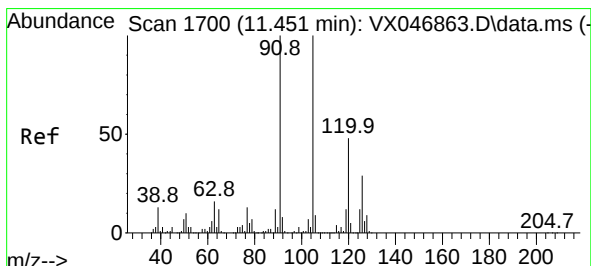
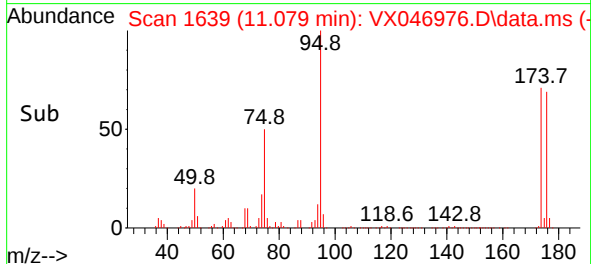
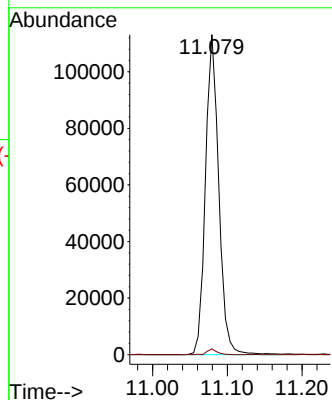
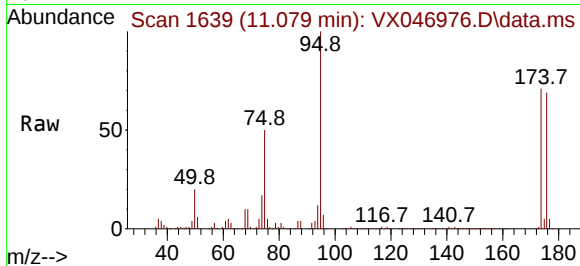




#76
1,2,3-Trichloropropane
Concen: 33.485 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.159 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

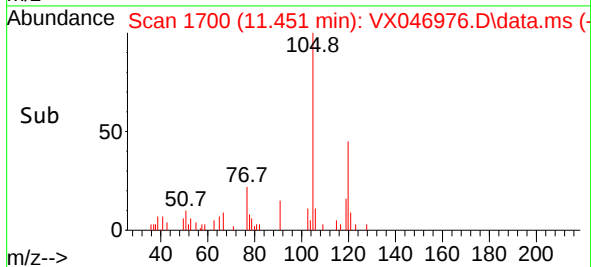
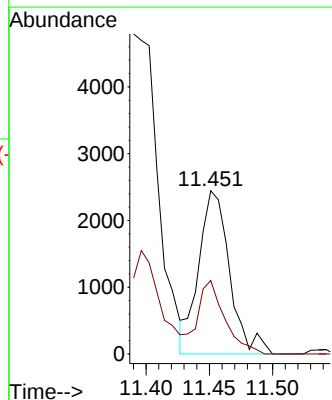
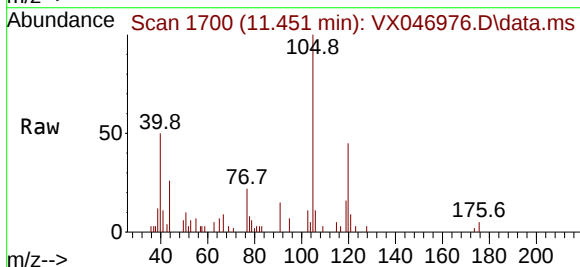
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

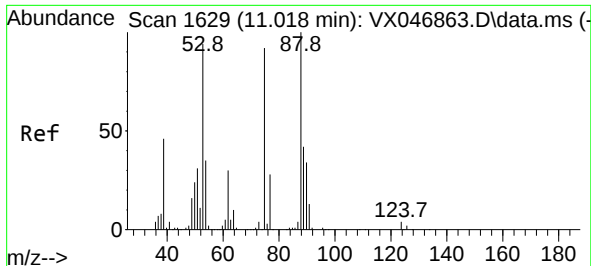
Tgt Ion: 75 Resp: 139759
Ion Ratio Lower Upper
75 100
77 1.4 20.6 61.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.270 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion:105 Resp: 4166
Ion Ratio Lower Upper
105 100
120 40.4 24.1 72.4

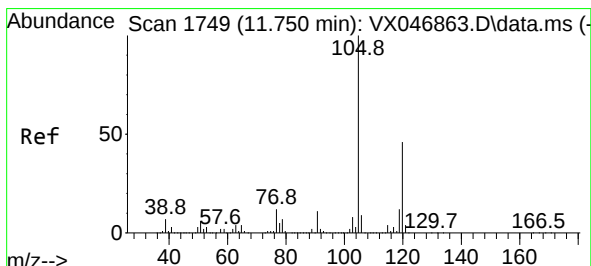
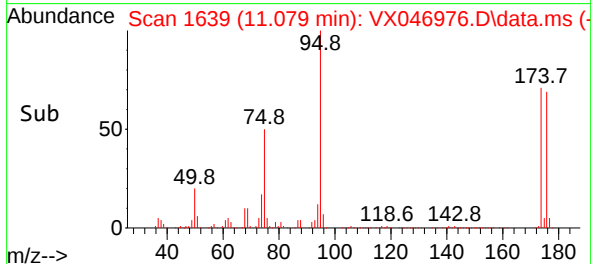
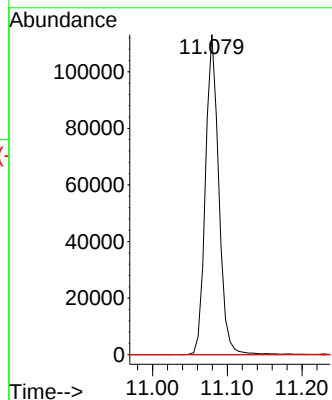
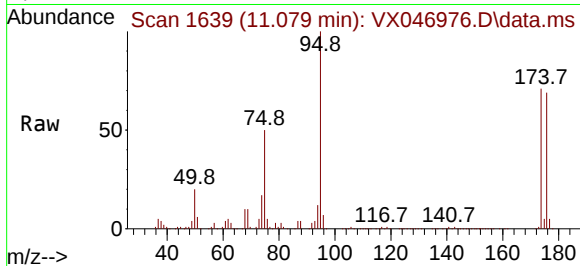




#81
trans-1,4-Dichloro-2-butene
Concen: 89.856 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

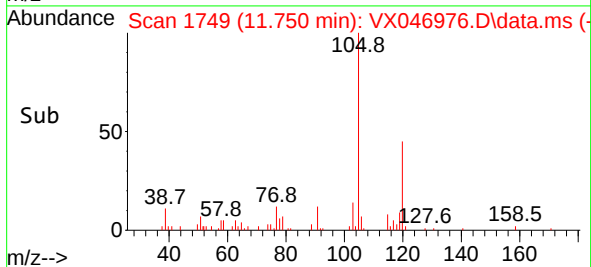
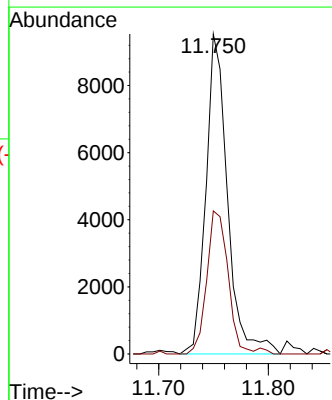
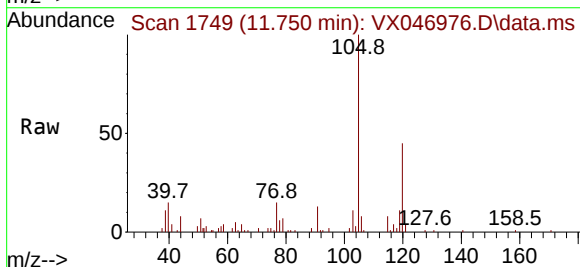
Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

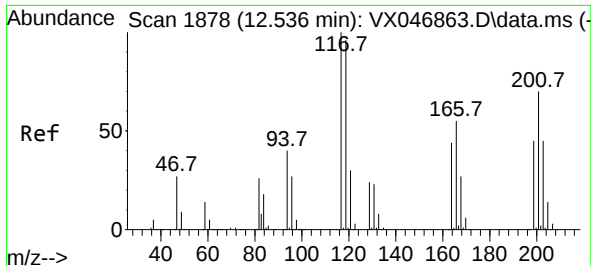
Tgt Ion: 75 Resp: 139759
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.835 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion: 105 Resp: 13024
Ion Ratio Lower Upper
105 100
120 43.8 23.3 69.8

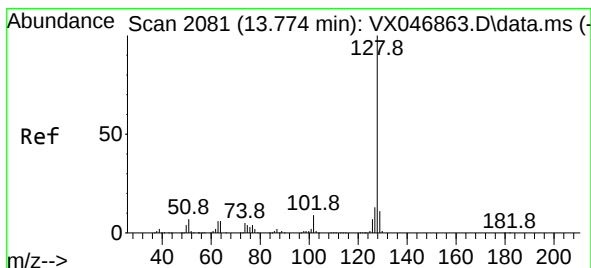
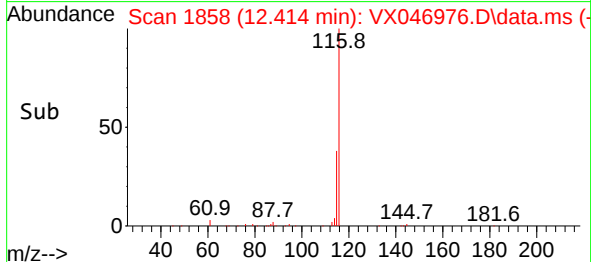
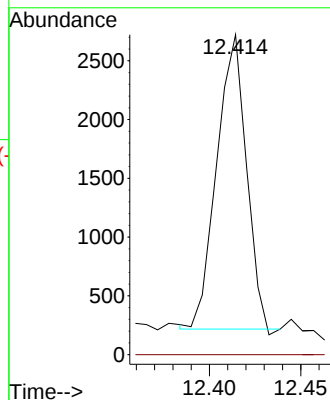
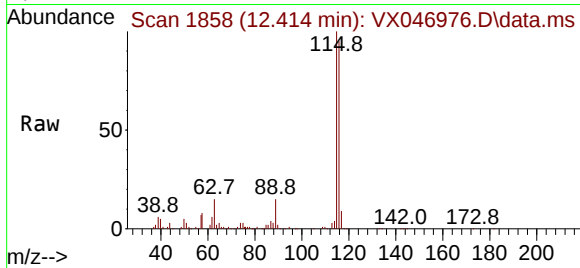




#90
Hexachloroethane
Concen: 0.942 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.122 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
WC-A5-01-G

Tgt Ion:117 Resp: 2809
Ion Ratio Lower Upper
117 100
201 0.0 35.8 107.4#



#95
Naphthalene
Concen: 137.804 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046976.D
Acq: 14 Jul 2025 16:06

Tgt Ion:128 Resp: 2114688
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.0 8.6 13.0

