

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071425\
 Data File : VX046977.D
 Acq On : 14 Jul 2025 16:28
 Operator : JC/MD
 Sample : Q2578-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-A2-09-G

Quant Time: Jul 15 01:23:14 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)

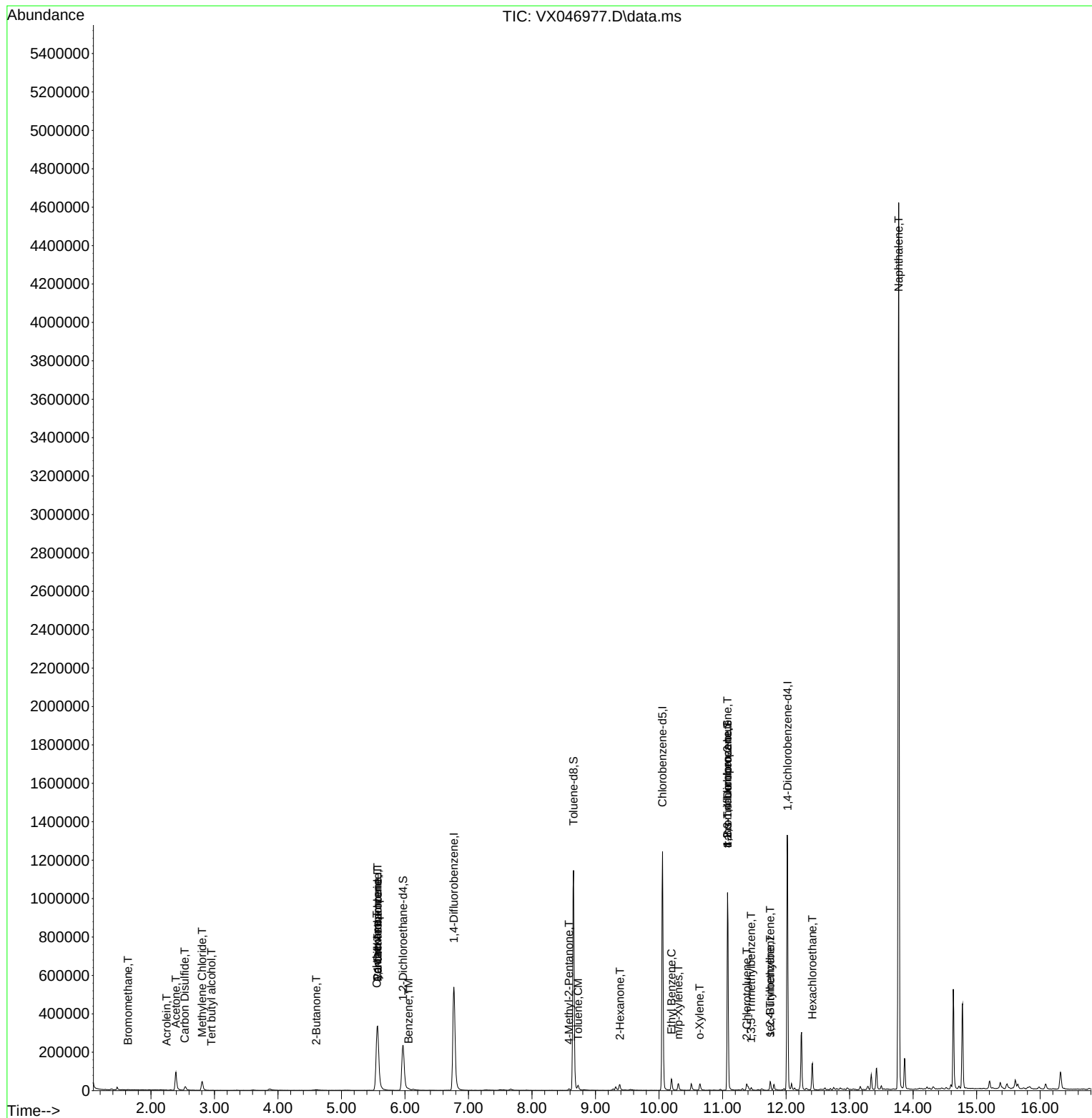
Internal Standards						
1) Pentafluorobenzene	5.568	168	344893	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	593288	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	543136	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	272001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	248533	54.546	ug/l	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.100%			
35) Dibromofluoromethane	5.409	113	26	0.006	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.020%#			
50) Toluene-d8	8.653	98	682529	48.035	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.060%			
62) 4-Bromofluorobenzene	11.079	95	275720	51.057	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.120%			
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	988	0.392	ug/l	81
11) Tert butyl alcohol	2.952	59	253	0.847	ug/l #	94
13) Acrolein	2.245	56	174	3.356	ug/l #	15
16) Acetone	2.392	43	115614	81.688	ug/l	96
17) Carbon Disulfide	2.532	76	3239	0.330	ug/l #	95
20) Methylene Chloride	2.806	84	22312	5.331	ug/l	94
25) 2-Butanone	4.605	43	5084	2.692	ug/l #	50
31) Cyclohexane	5.556	56	7167	1.100	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	27274	5.019	ug/l #	51
38) Carbon Tetrachloride	5.568	117	35753	6.224	ug/l #	15
40) Benzene	6.056	78	6629	0.403	ug/l #	84
51) 4-Methyl-2-Pentanone	8.579	43	5826	1.393	ug/l	90
52) Toluene	8.726	92	8920	0.876	ug/l	95
59) 2-Hexanone	9.384	43	25282	9.111	ug/l #	25
67) Ethyl Benzene	10.195	91	36159	1.798	ug/l	95
68) m/p-Xylenes	10.305	106	9312	1.229	ug/l	96
69) o-Xylene	10.640	106	7546	1.031	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	140561	33.445	ug/l #	37
79) 2-Chlorotoluene	11.384	91	3491	0.256	ug/l #	46
80) 1,3,5-Trimethylbenzene	11.451	105	6412	0.413	ug/l	90
81) trans-1,4-Dichloro-2-b...	11.079	75	140561	89.749	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	20461	1.303	ug/l	93
85) sec-Butylbenzene	11.750	105	20461	1.011	ug/l #	57
90) Hexachloroethane	12.414	117	5832	1.942	ug/l #	14
95) Naphthalene	13.774	128	2697175	174.550	ug/l	99

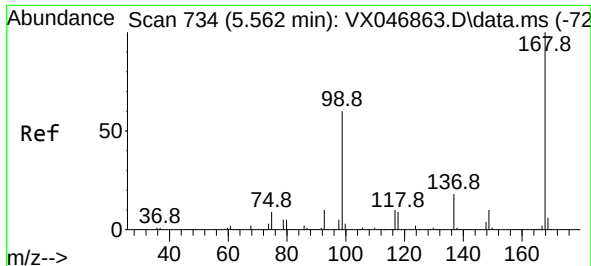
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

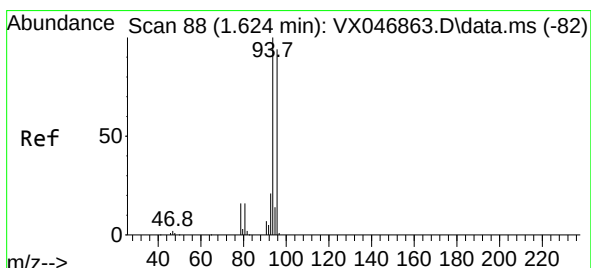
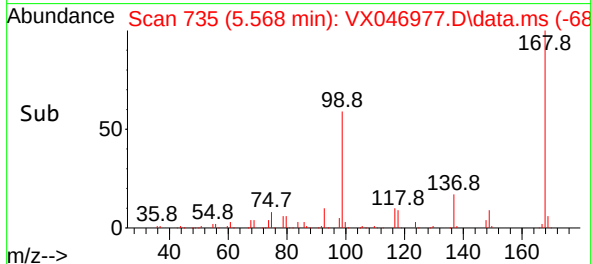
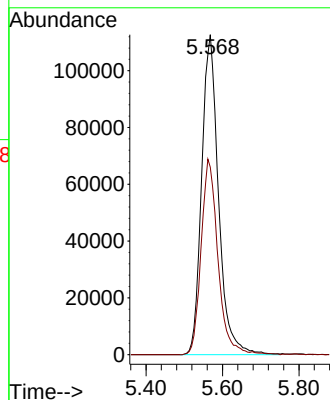
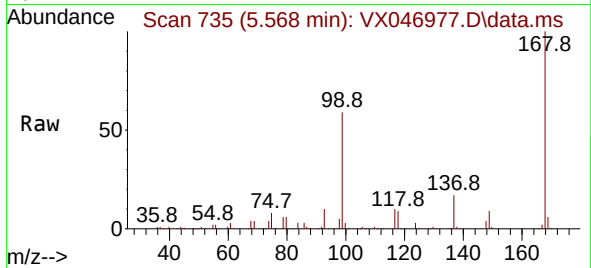




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

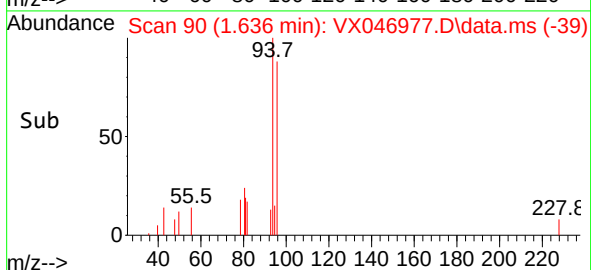
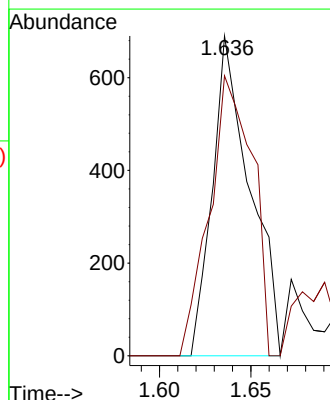
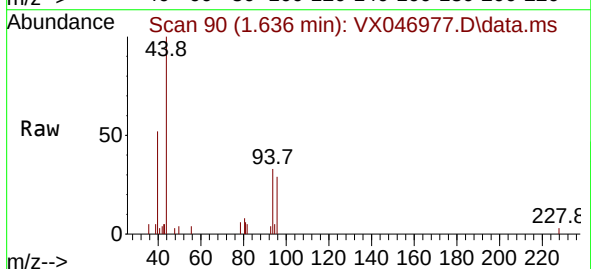
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

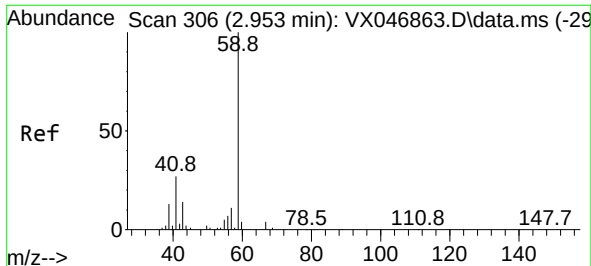
Tgt Ion:168 Resp: 344893
Ion Ratio Lower Upper
168 100
99 58.6 48.8 73.2



#5
Bromomethane
Concen: 0.392 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 94 Resp: 988
Ion Ratio Lower Upper
94 100
96 76.1 75.5 113.3

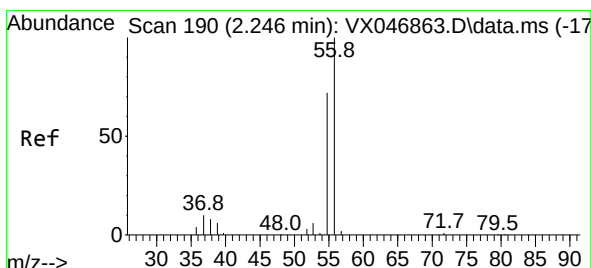
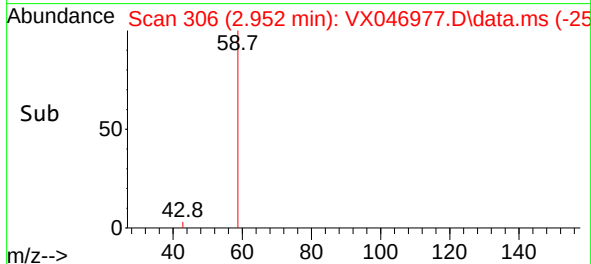
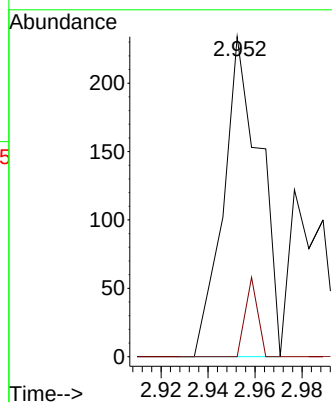
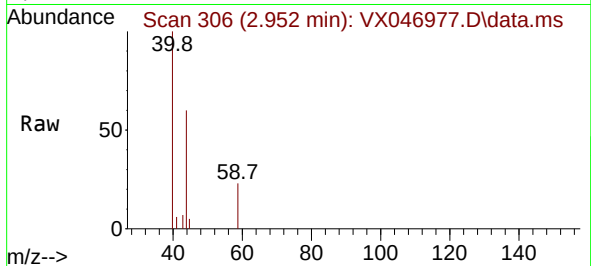




#11
Tert butyl alcohol
Concen: 0.847 ug/l
RT: 2.952 min Scan# 306
Delta R.T. -0.000 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

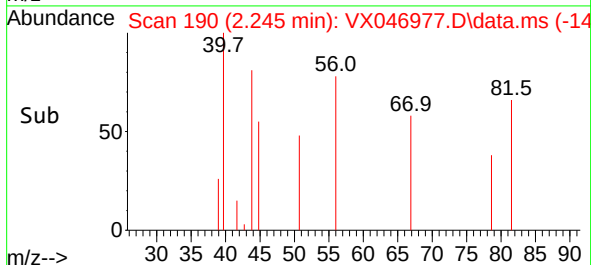
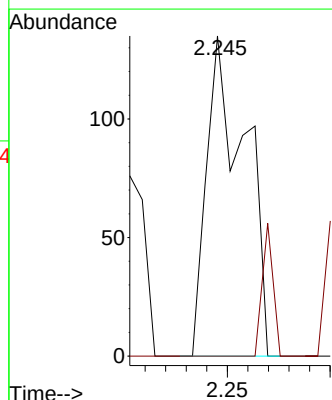
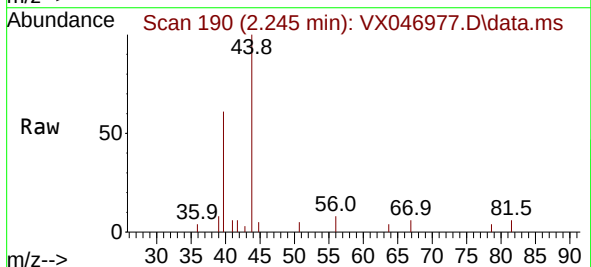
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

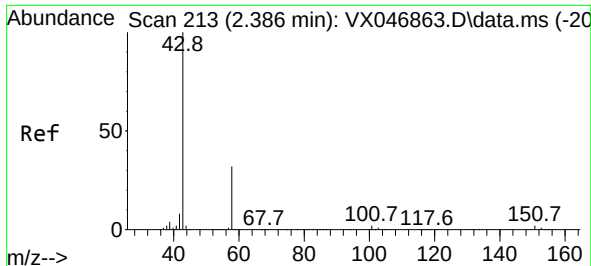
Tgt Ion: 59 Resp: 253
Ion Ratio Lower Upper
59 100
57 8.3 8.5 12.7#



#13
Acrolein
Concen: 3.356 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.001 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 56 Resp: 174
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#

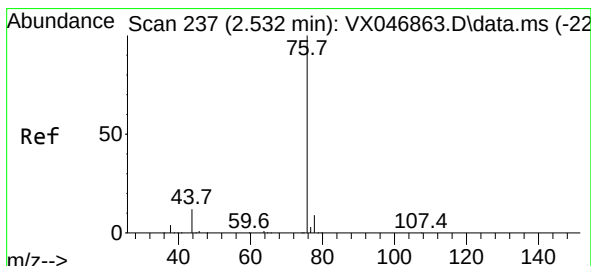
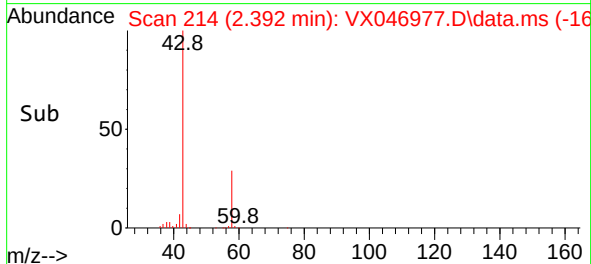
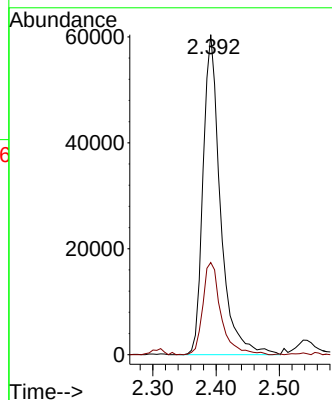
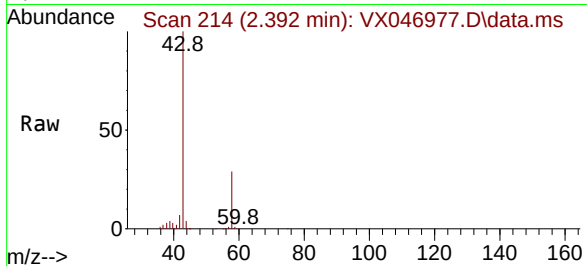




#16
Acetone
Concen: 81.688 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

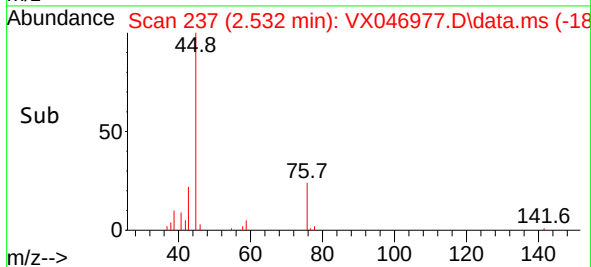
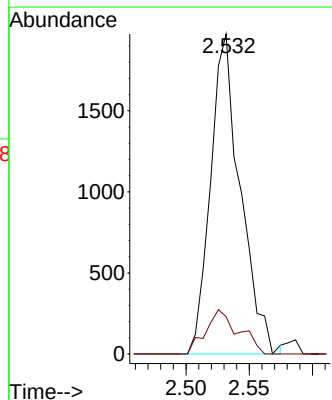
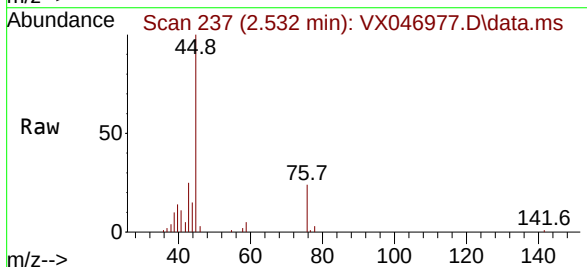
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

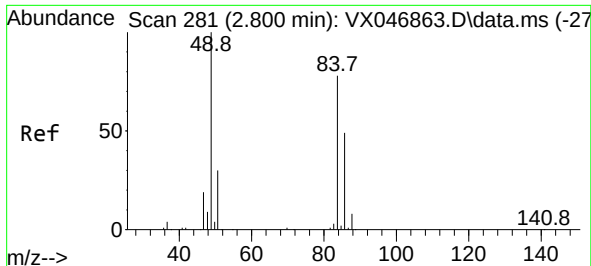
Tgt Ion: 43 Resp: 115614
Ion Ratio Lower Upper
43 100
58 30.2 25.8 38.6



#17
Carbon Disulfide
Concen: 0.330 ug/l
RT: 2.532 min Scan# 237
Delta R.T. -0.000 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 76 Resp: 3239
Ion Ratio Lower Upper
76 100
78 11.2 7.4 11.2#

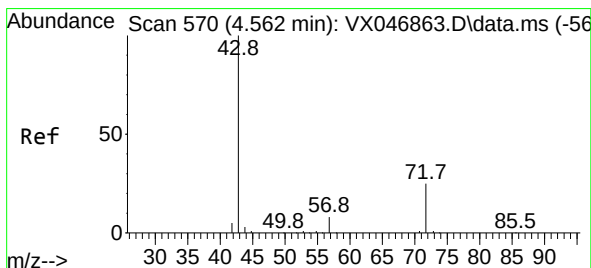
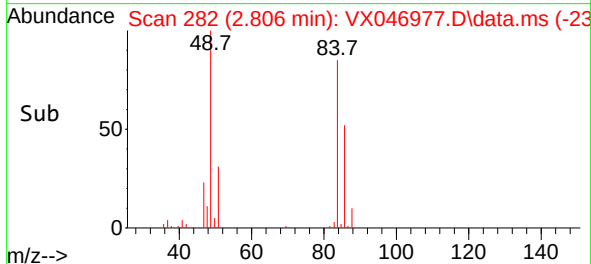
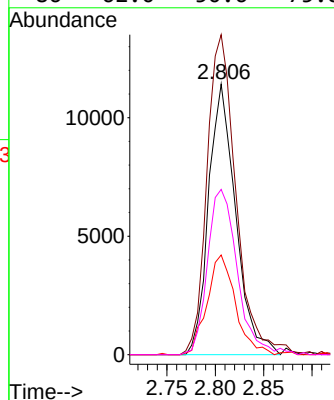
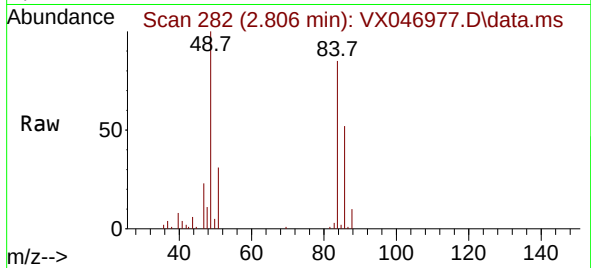




#20
Methylene Chloride
Concen: 5.331 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

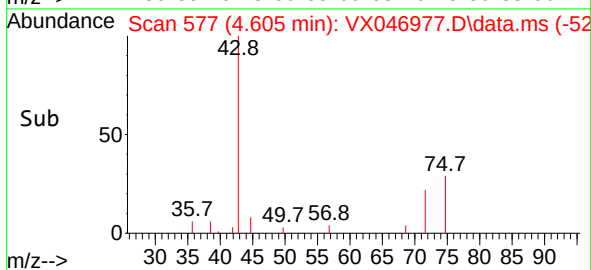
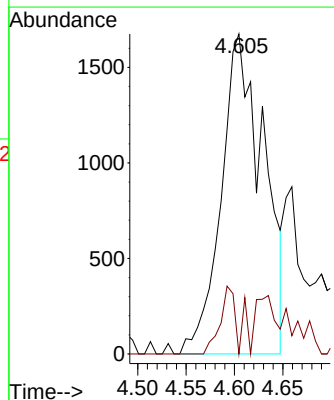
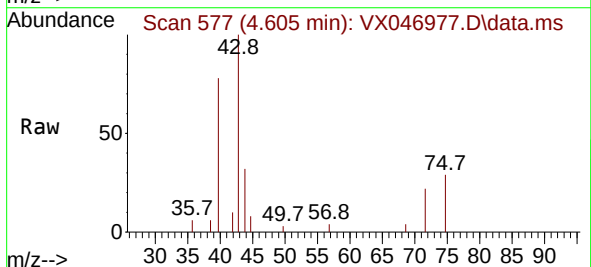
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

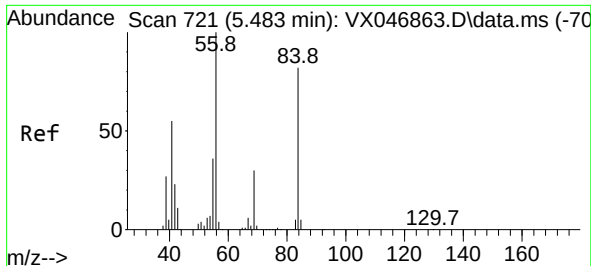
Tgt Ion:	84	Resp:	22312
Ion	Ratio	Lower	Upper
84	100		
49	118.3	102.8	154.2
51	36.8	31.1	46.7
86	62.0	50.6	75.8



#25
2-Butanone
Concen: 2.692 ug/l
RT: 4.605 min Scan# 577
Delta R.T. 0.042 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion:	43	Resp:	5084
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.0	30.0#

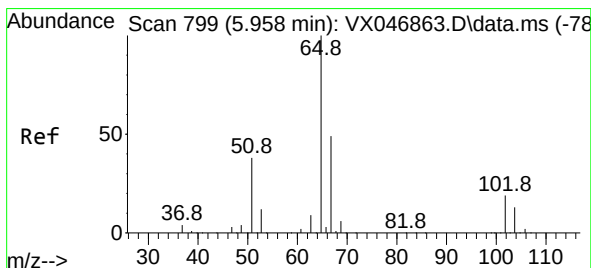
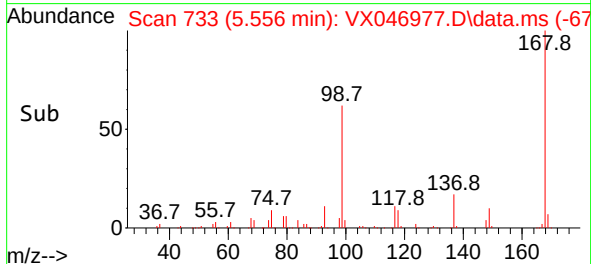
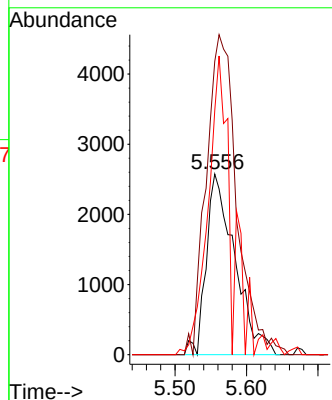
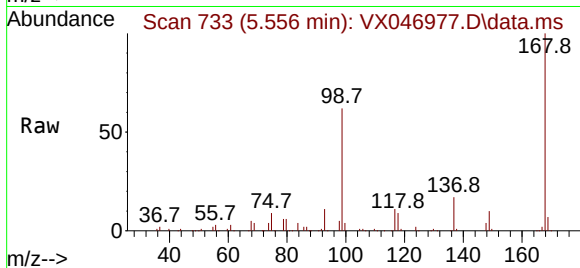




#31
Cyclohexane
Concen: 1.100 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.073 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

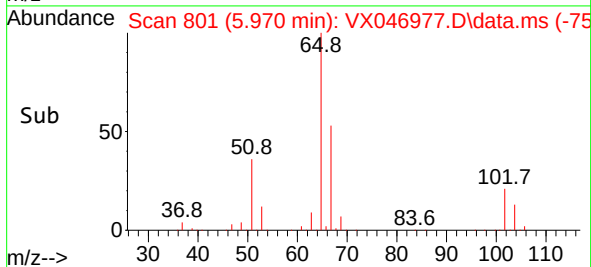
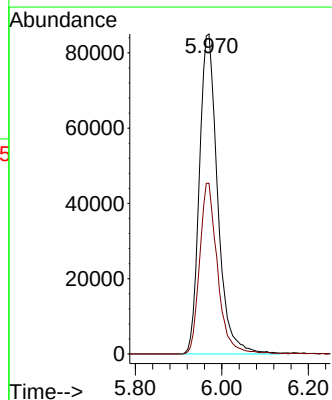
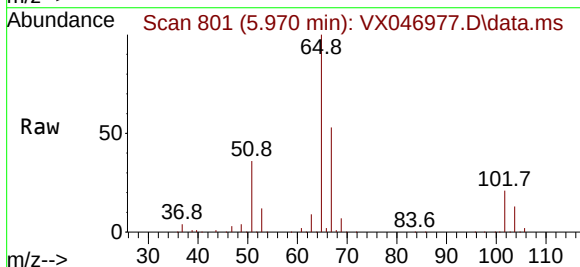
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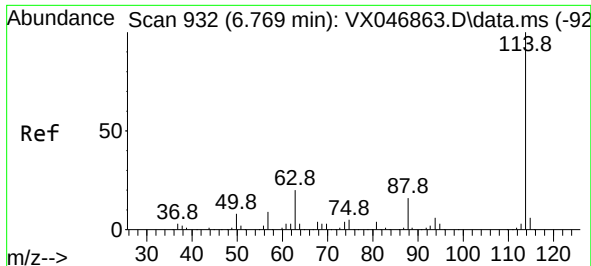
Tgt Ion: 56 Resp: 7167
Ion Ratio Lower Upper
56 100
69 162.4 24.0 36.0#
84 132.2 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 54.546 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.012 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 65 Resp: 248533
Ion Ratio Lower Upper
65 100
67 52.1 0.0 105.2

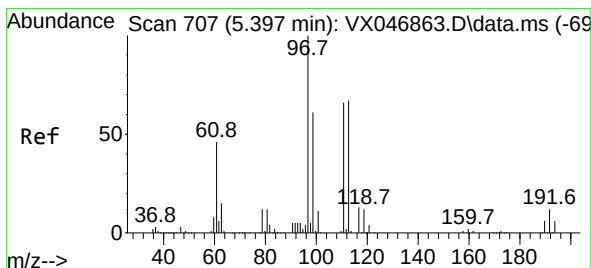
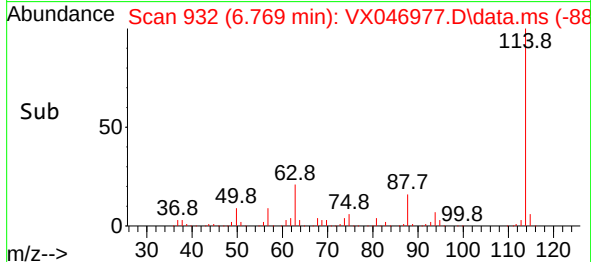
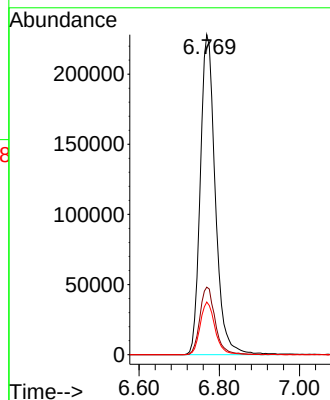
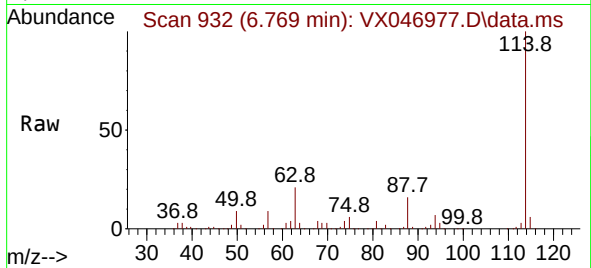




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

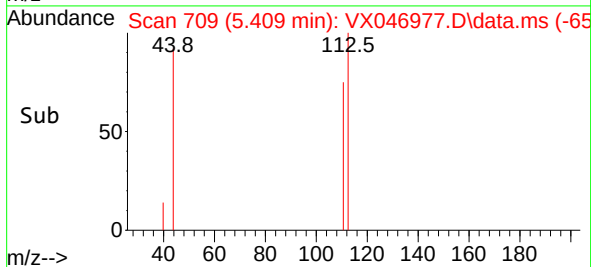
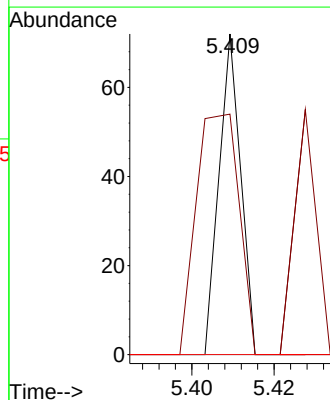
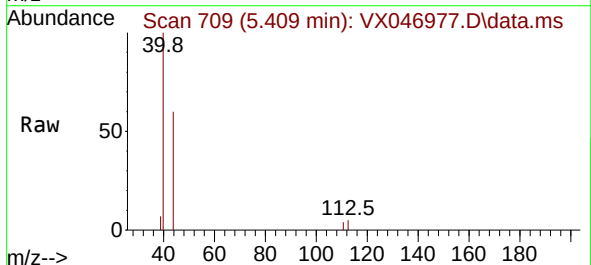
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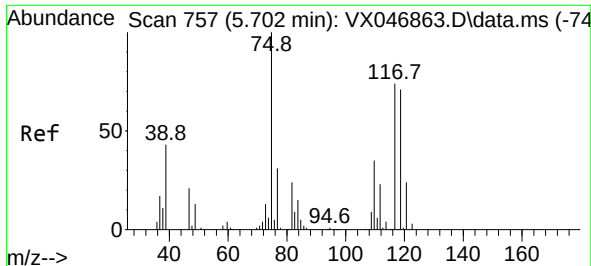
Tgt Ion:114 Resp: 593288
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.4
 88 16.4 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 0.006 ug/l
 RT: 5.409 min Scan# 709
 Delta R.T. 0.012 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

Tgt Ion:113 Resp: 26
 Ion Ratio Lower Upper
 113 100
 111 150.0 81.2 121.8#
 192 0.0 15.3 22.9#

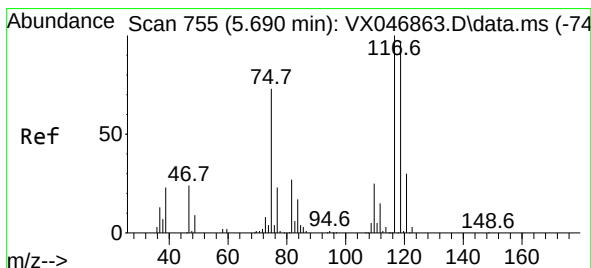
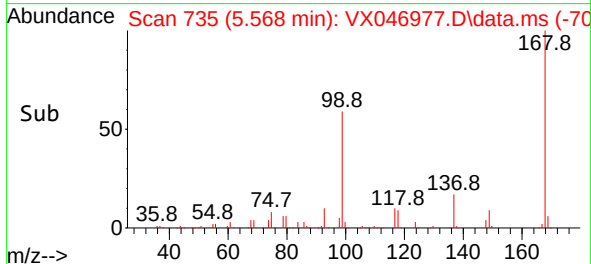
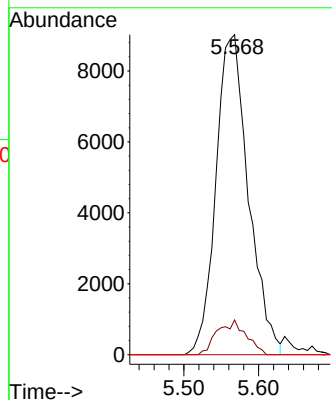
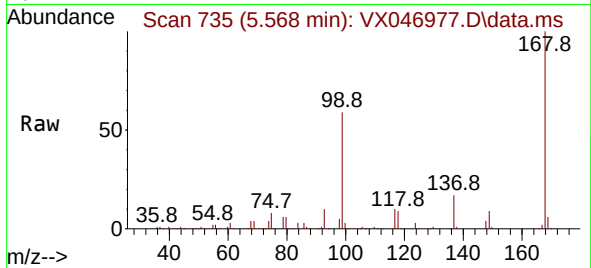




#36
 1,1-Dichloropropene
 Concen: 5.019 ug/l
 RT: 5.568 min Scan# 71
 Delta R.T. -0.134 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

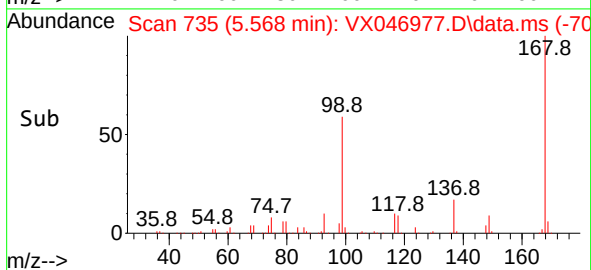
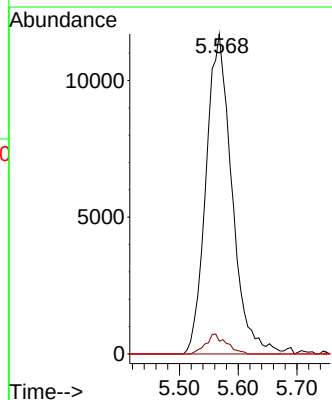
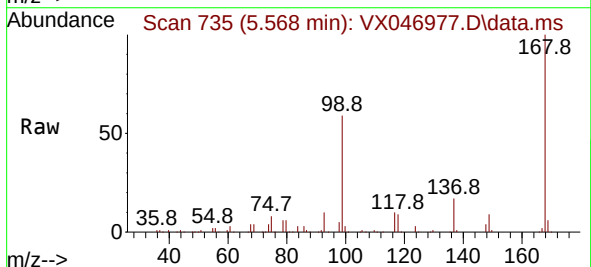
Instrument :
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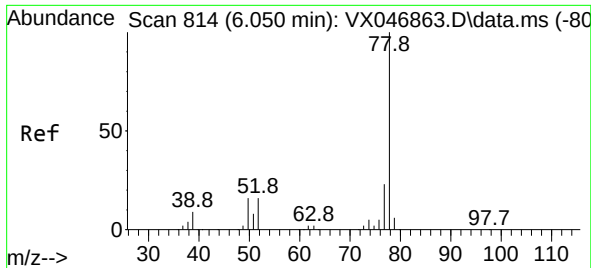
Tgt Ion: 75 Resp: 27274
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.3 51.9#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.224 ug/l
 RT: 5.568 min Scan# 735
 Delta R.T. -0.122 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

Tgt Ion: 117 Resp: 35753
 Ion Ratio Lower Upper
 117 100
 119 4.0 76.6 114.8#
 121 0.0 24.1 36.1#

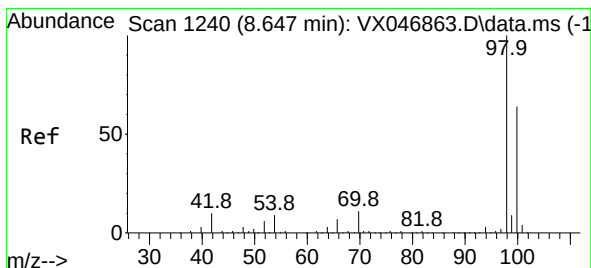
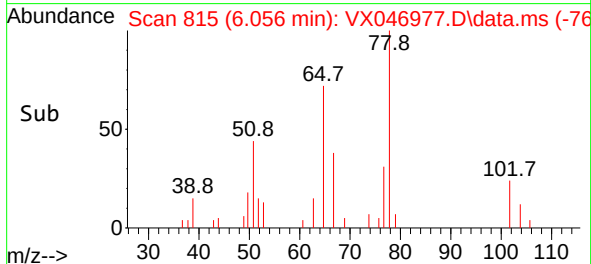
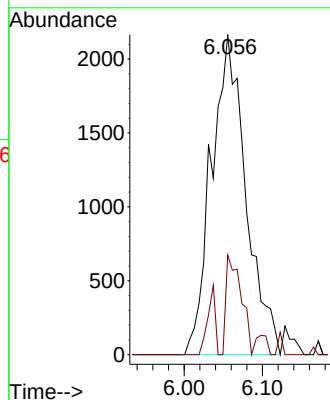
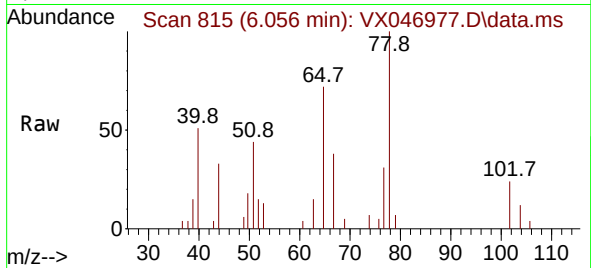




#40
Benzene
Concen: 0.403 ug/l
RT: 6.056 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

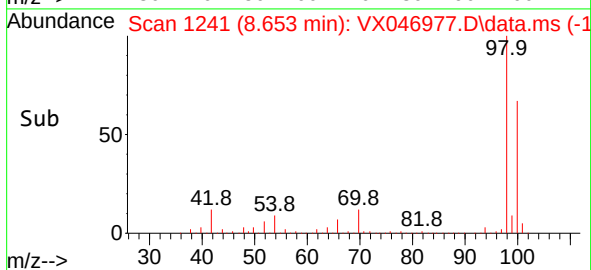
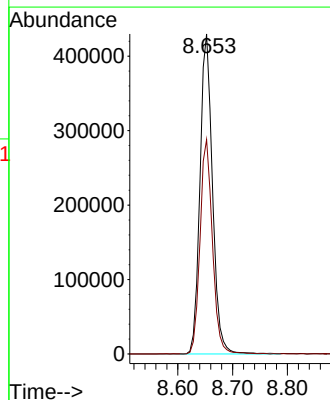
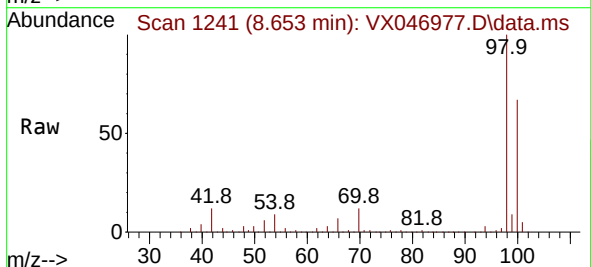
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

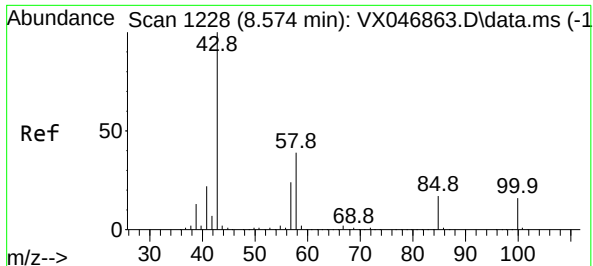
Tgt Ion: 78 Resp: 6629
Ion Ratio Lower Upper
78 100
77 31.1 18.7 28.1#



#50
Toluene-d8
Concen: 48.035 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 98 Resp: 682529
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.6

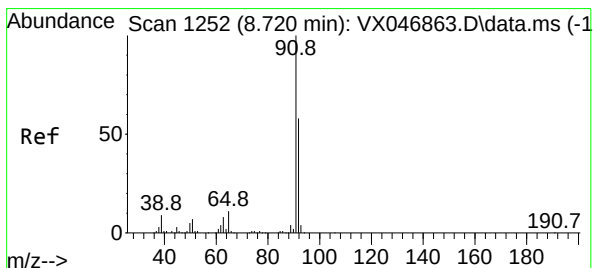
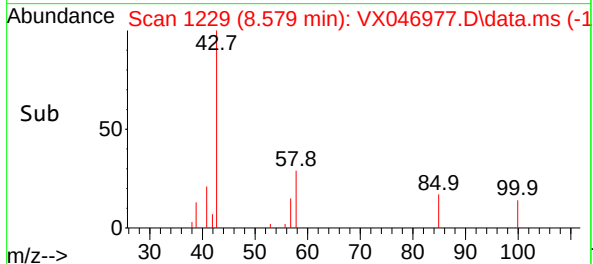
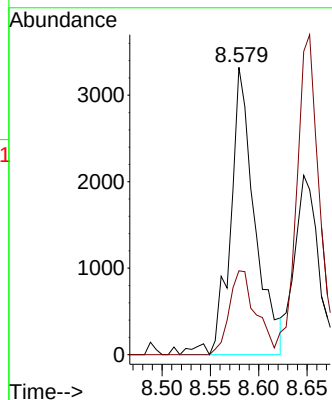
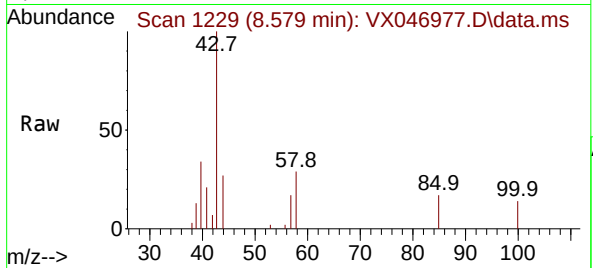




#51
4-Methyl-2-Pentanone
Concen: 1.393 ug/l
RT: 8.579 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

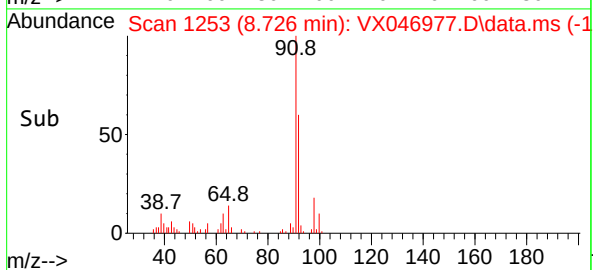
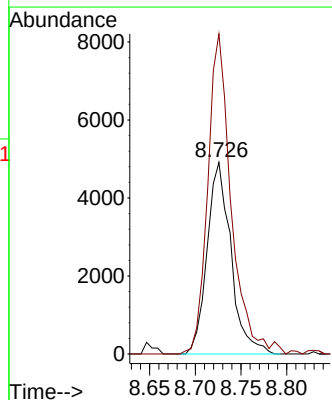
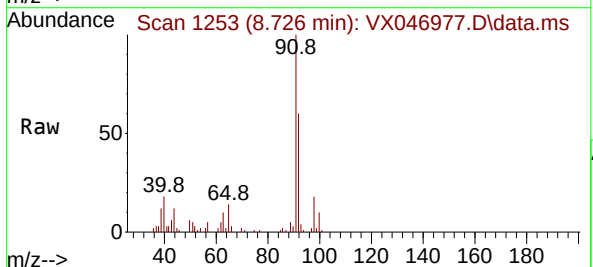
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

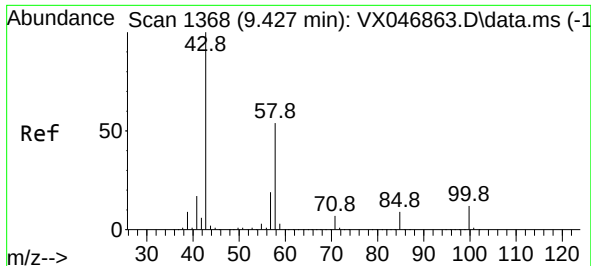
Tgt Ion: 43 Resp: 5826
Ion Ratio Lower Upper
43 100
58 31.8 30.4 45.6



#52
Toluene
Concen: 0.876 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 92 Resp: 8920
Ion Ratio Lower Upper
92 100
91 165.0 137.9 206.9





#59

2-Hexanone

Concen: 9.111 ug/l

RT: 9.384 min Scan# 11

Delta R.T. -0.043 min

Lab File: VX046977.D

Acq: 14 Jul 2025 16:28

Instrument :

MSVOA_X

ClientSampleId :

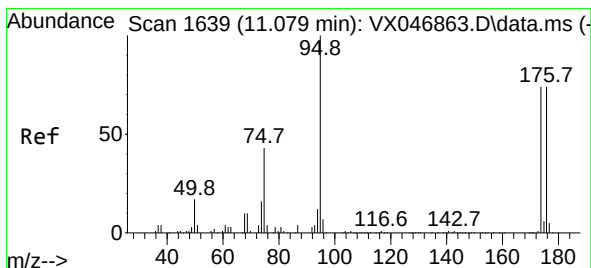
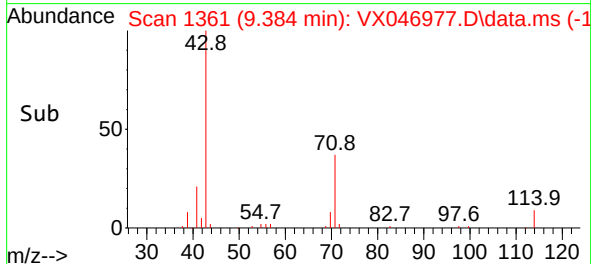
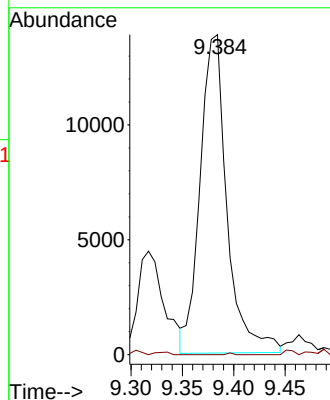
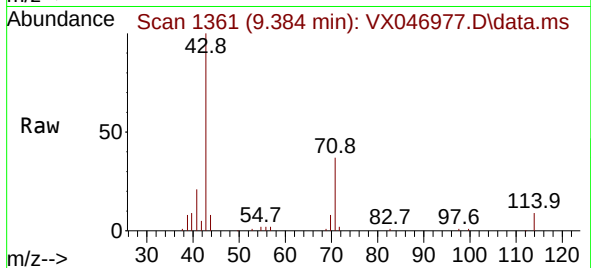
WC-A2-09-G

Tgt Ion: 43 Resp: 25282

Ion Ratio Lower Upper

43 100

58 0.1 27.1 81.3#



#62

4-Bromofluorobenzene

Concen: 51.057 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046977.D

Acq: 14 Jul 2025 16:28

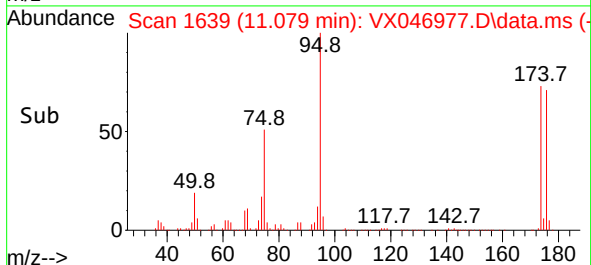
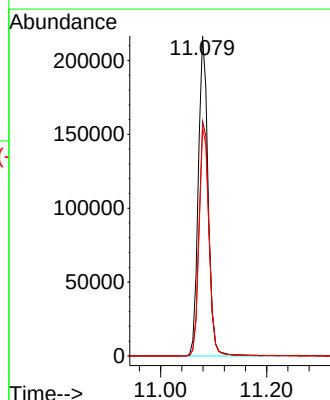
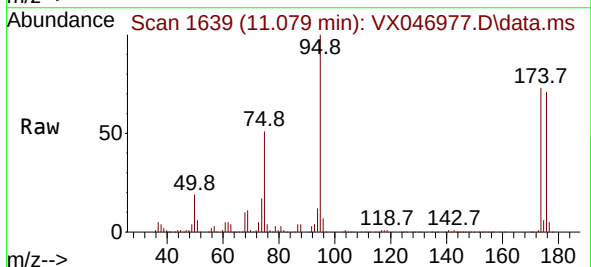
Tgt Ion: 95 Resp: 275720

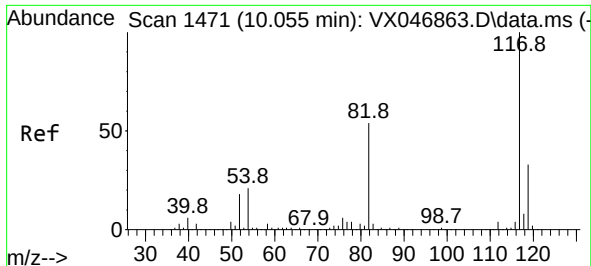
Ion Ratio Lower Upper

95 100

174 75.1 0.0 152.0

176 72.4 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: VX046977.D

Acq: 14 Jul 2025 16:28

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-09-G

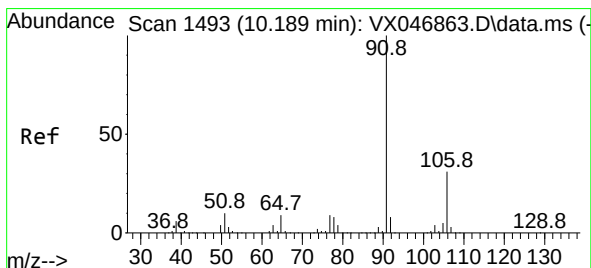
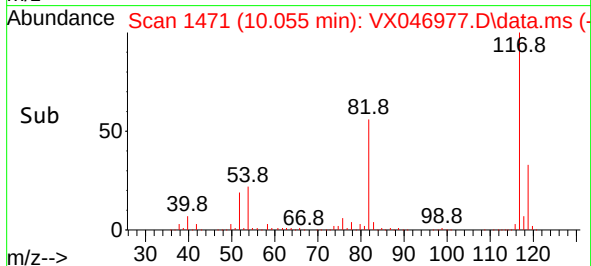
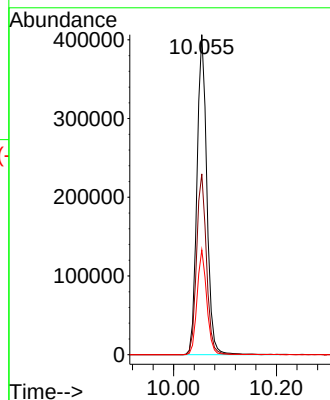
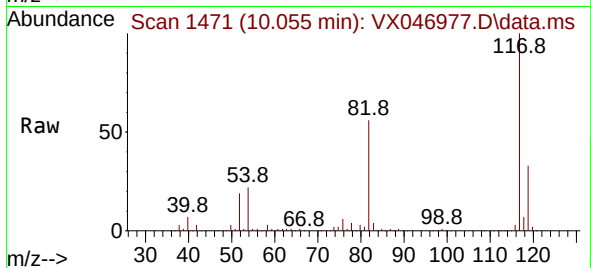
Tgt Ion:117 Resp: 543136

Ion Ratio Lower Upper

117 100

82 56.5 43.3 64.9

119 32.8 26.4 39.6



#67

Ethyl Benzene

Concen: 1.798 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX046977.D

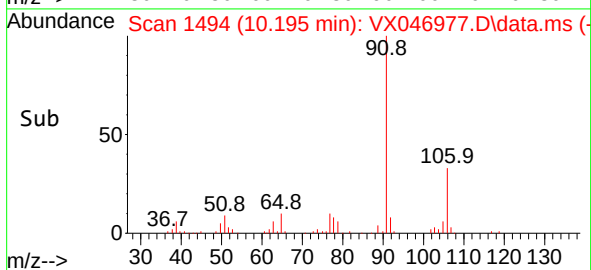
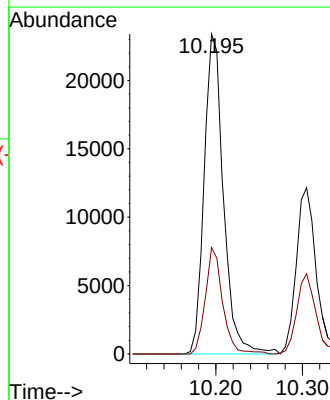
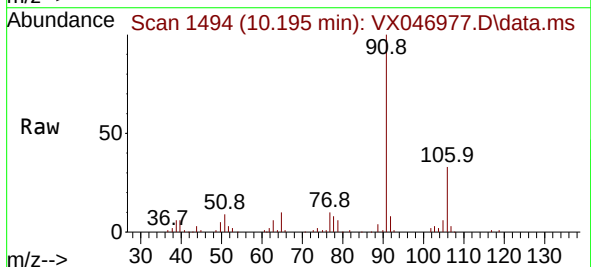
Acq: 14 Jul 2025 16:28

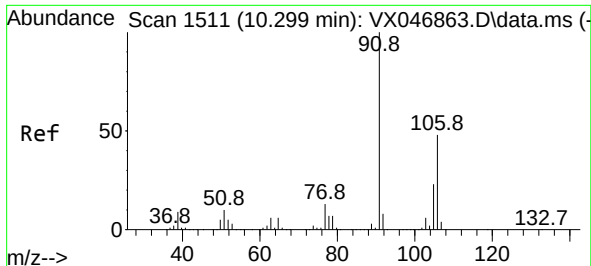
Tgt Ion: 91 Resp: 36159

Ion Ratio Lower Upper

91 100

106 33.3 24.4 36.6

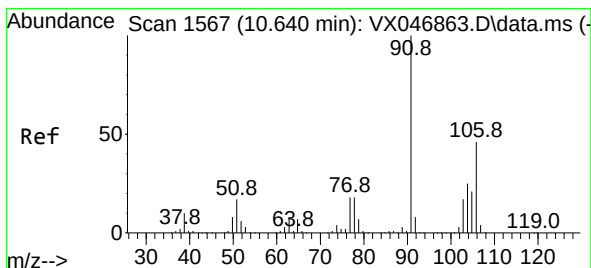
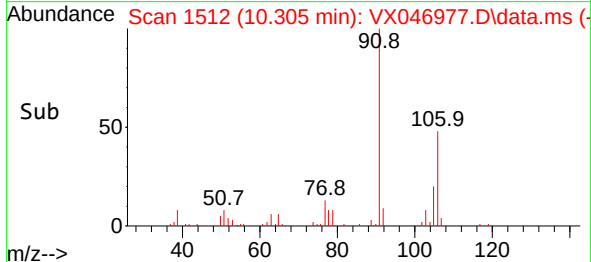
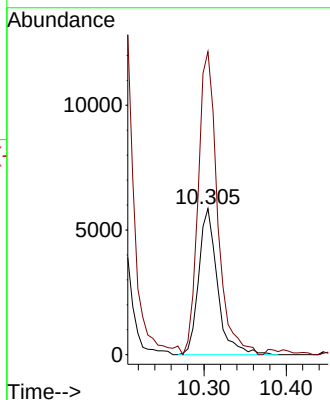
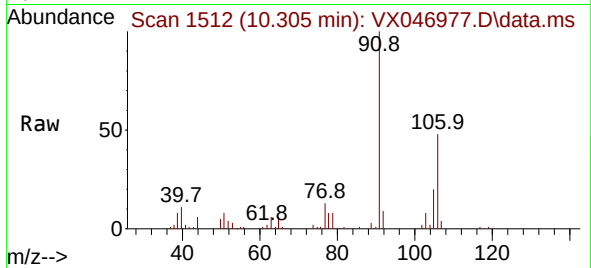




#68
m/p-Xylenes
Concen: 1.229 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

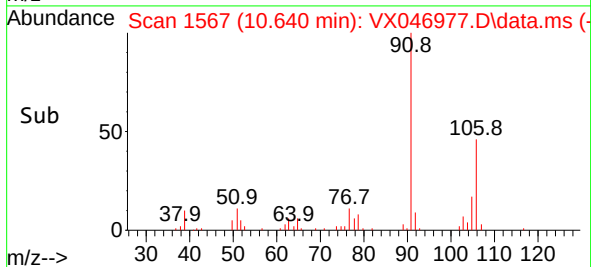
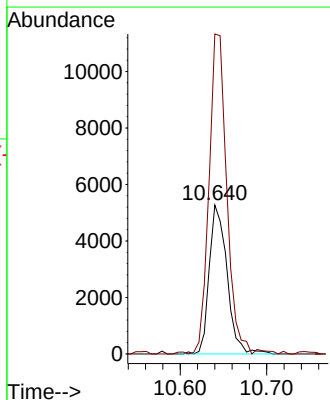
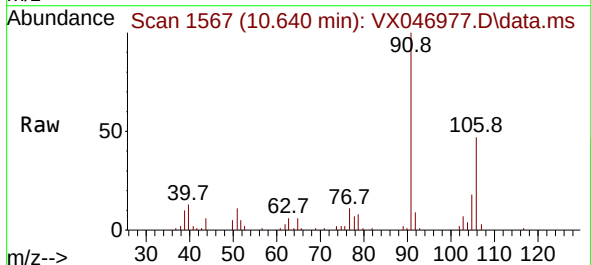
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

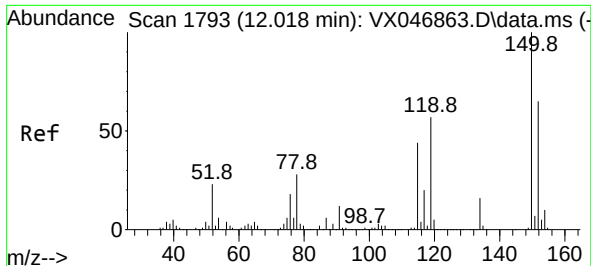
Tgt Ion:106 Resp: 9312
Ion Ratio Lower Upper
106 100
91 212.2 164.6 246.8



#69
o-Xylene
Concen: 1.031 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion:106 Resp: 7546
Ion Ratio Lower Upper
106 100
91 215.1 109.5 328.5

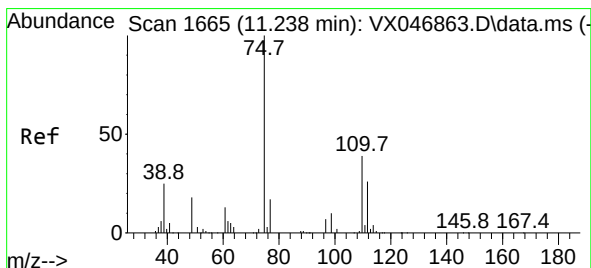
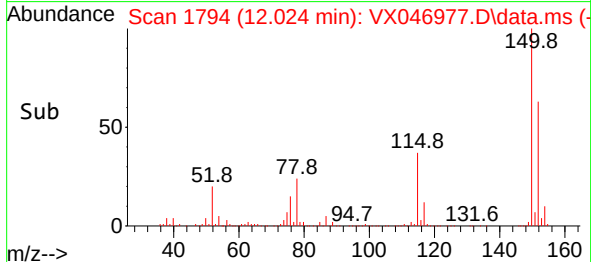
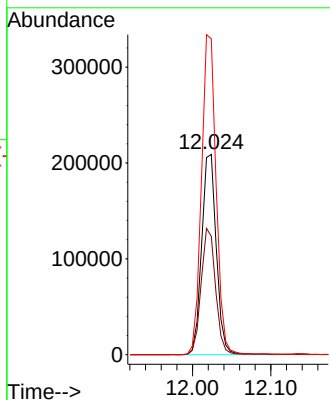
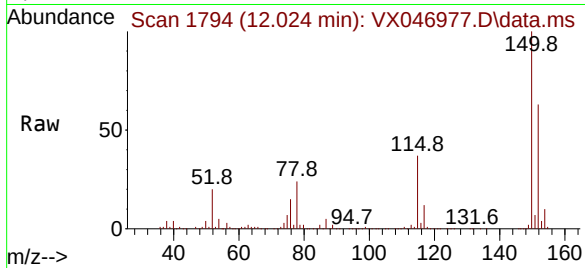




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

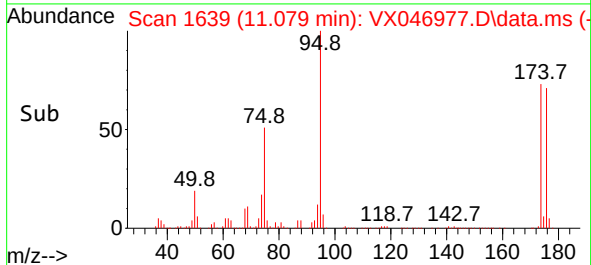
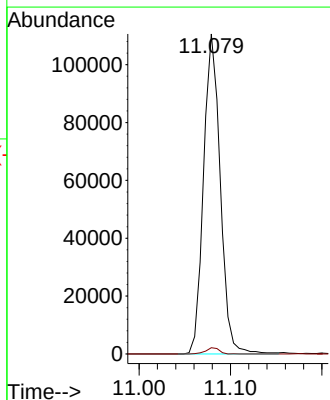
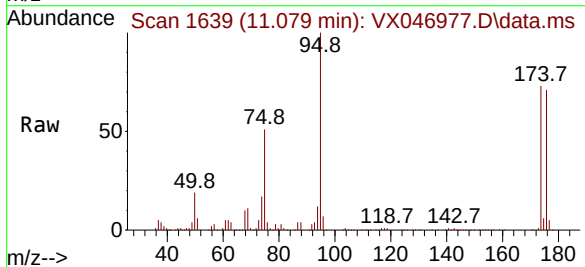
Instrument :
 MSVOA_X
 ClientSampleId :
 WC-A2-09-G

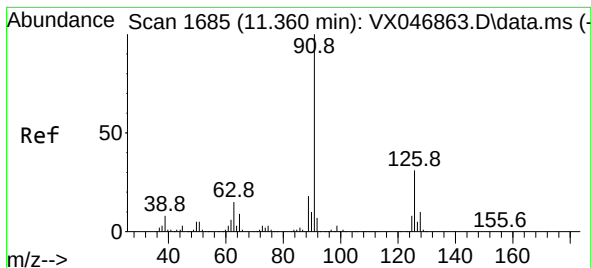
Tgt Ion:152 Resp: 272001
 Ion Ratio Lower Upper
 152 100
 115 61.9 42.4 127.1
 150 159.4 0.0 349.2



#76
 1,2,3-Trichloropropane
 Concen: 33.445 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX046977.D
 Acq: 14 Jul 2025 16:28

Tgt Ion: 75 Resp: 140561
 Ion Ratio Lower Upper
 75 100
 77 1.6 20.6 61.8#





#79

2-Chlorotoluene

Concen: 0.256 ug/l

RT: 11.384 min Scan# 1

Delta R.T. 0.024 min

Lab File: VX046977.D

Acq: 14 Jul 2025 16:28

Instrument :

MSVOA_X

ClientSampleId :

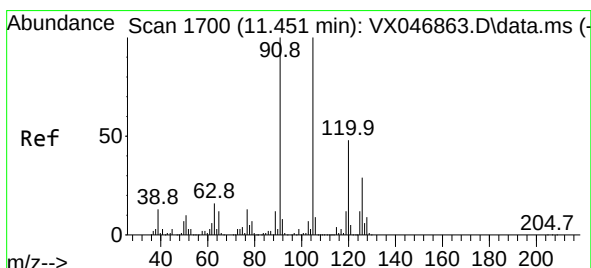
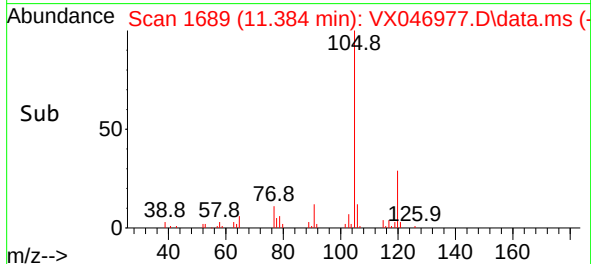
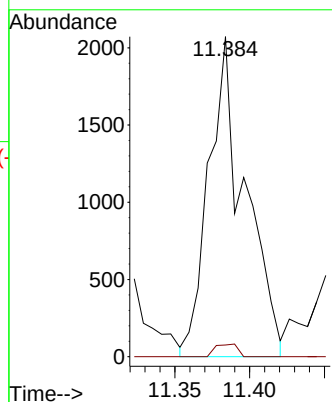
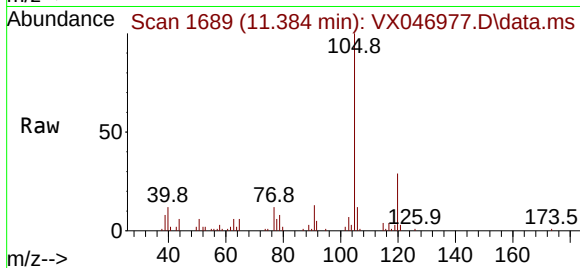
WC-A2-09-G

Tgt Ion: 91 Resp: 3491

Ion Ratio Lower Upper

91 100

126 2.4 16.6 49.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.413 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046977.D

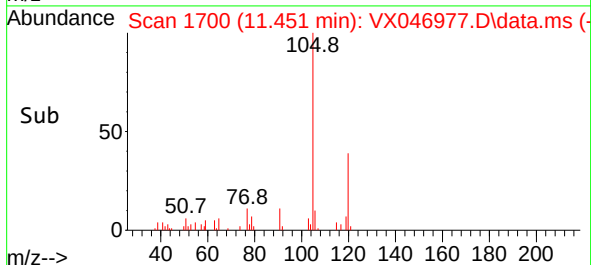
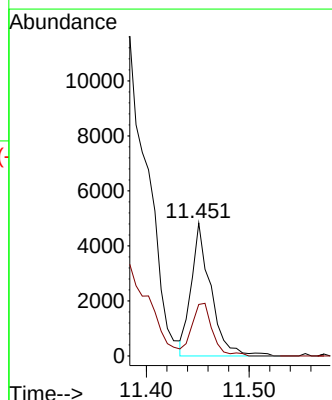
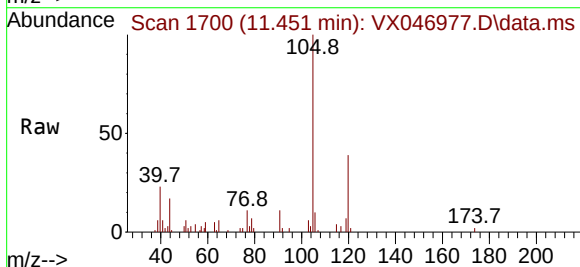
Acq: 14 Jul 2025 16:28

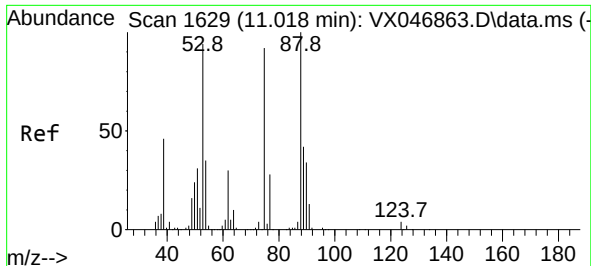
Tgt Ion:105 Resp: 6412

Ion Ratio Lower Upper

105 100

120 41.6 24.1 72.4

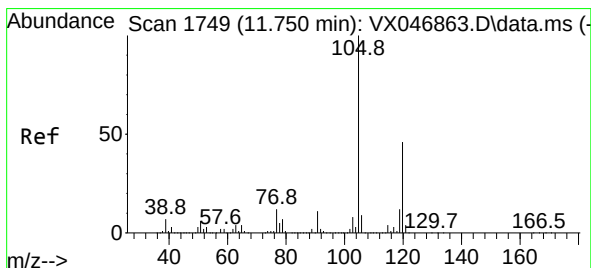
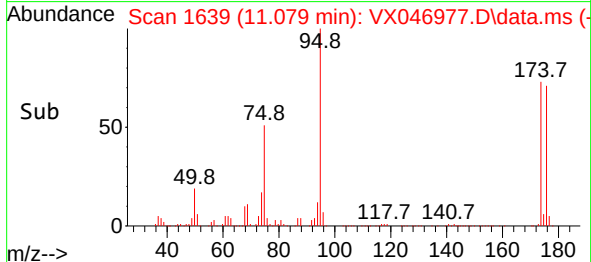
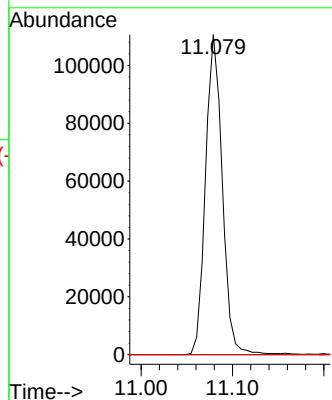
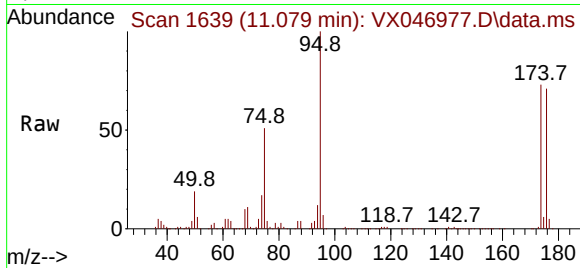




#81
trans-1,4-Dichloro-2-butene
Concen: 89.749 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

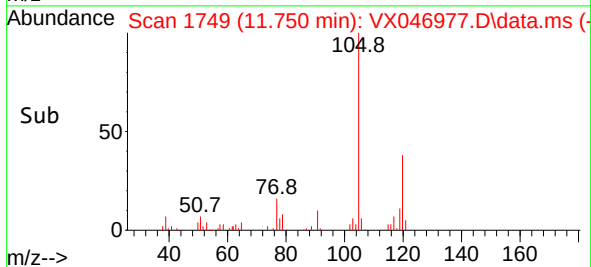
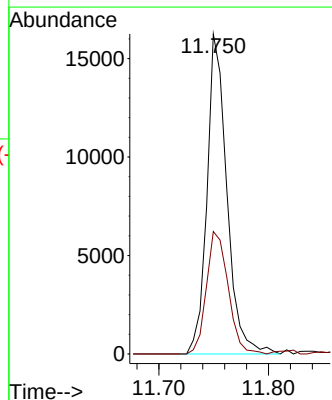
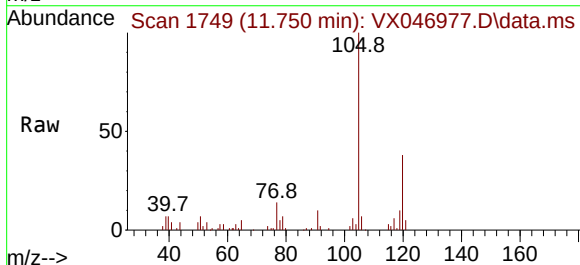
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

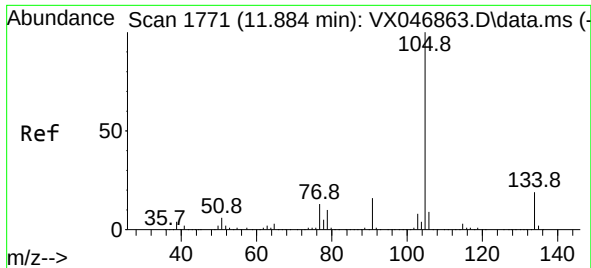
Tgt Ion: 75 Resp: 140561
Ion Ratio Lower Upper
75 100
53 0.0 83.7 125.5#
89 0.0 38.2 57.2#



#84
1,2,4-Trimethylbenzene
Concen: 1.303 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion: 105 Resp: 20461
Ion Ratio Lower Upper
105 100
120 41.7 23.3 69.8

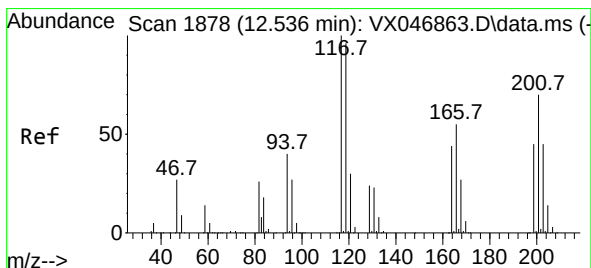
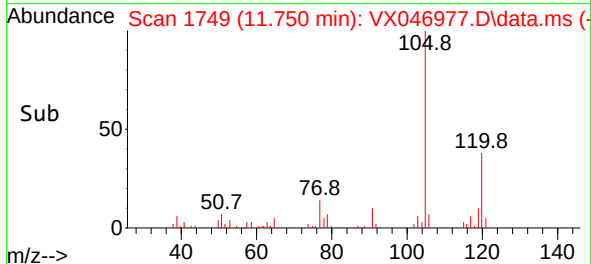
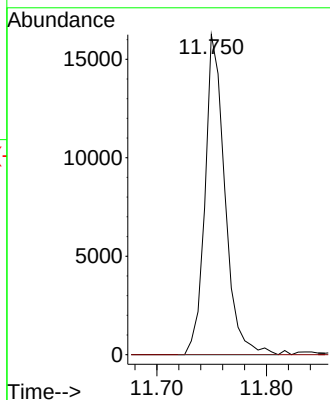
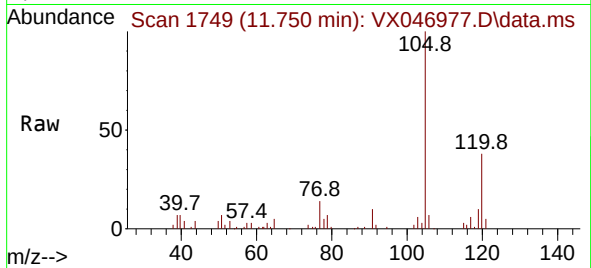




#85
sec-Butylbenzene
Concen: 1.011 ug/l
RT: 11.750 min Scan# 11
Delta R.T. -0.134 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

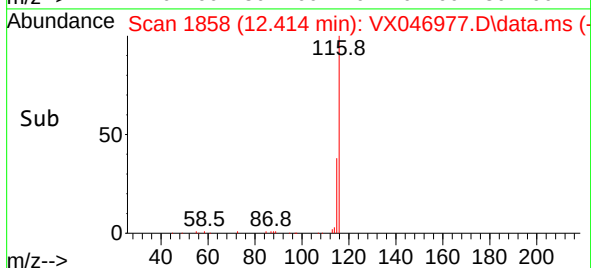
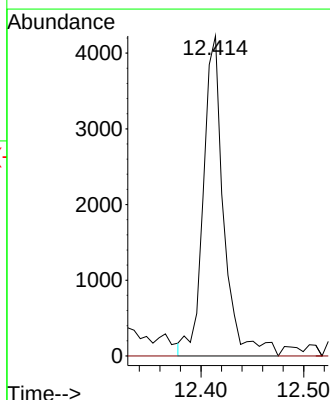
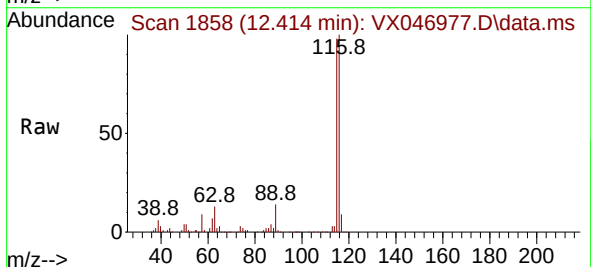
Instrument :
MSVOA_X
ClientSampleId :
WC-A2-09-G

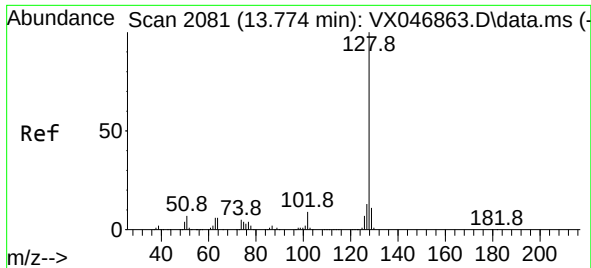
Tgt Ion:105 Resp: 20461
Ion Ratio Lower Upper
105 100
134 0.0 9.9 29.7#



#90
Hexachloroethane
Concen: 1.942 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.122 min
Lab File: VX046977.D
Acq: 14 Jul 2025 16:28

Tgt Ion:117 Resp: 5832
Ion Ratio Lower Upper
117 100
201 0.0 35.8 107.4#





#95

Naphthalene

Concen: 174.550 ug/l

RT: 13.774 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX046977.D

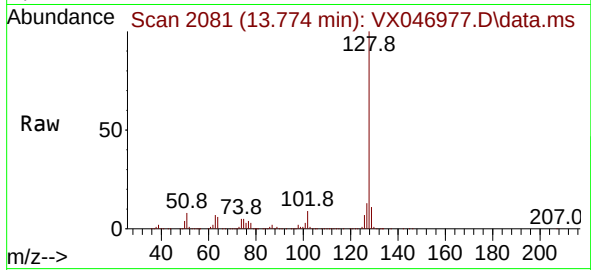
Acq: 14 Jul 2025 16:28

Instrument :

MSVOA_X

ClientSampleId :

WC-A2-09-G



Tgt Ion:128 Resp: 2697175

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 11.1 8.6 13.0

