

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046669.D
 Acq On : 12 Jun 2025 17:17
 Operator : JC/MD
 Sample : Q2167-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-20250605

Quant Time: Jun 13 01:46:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

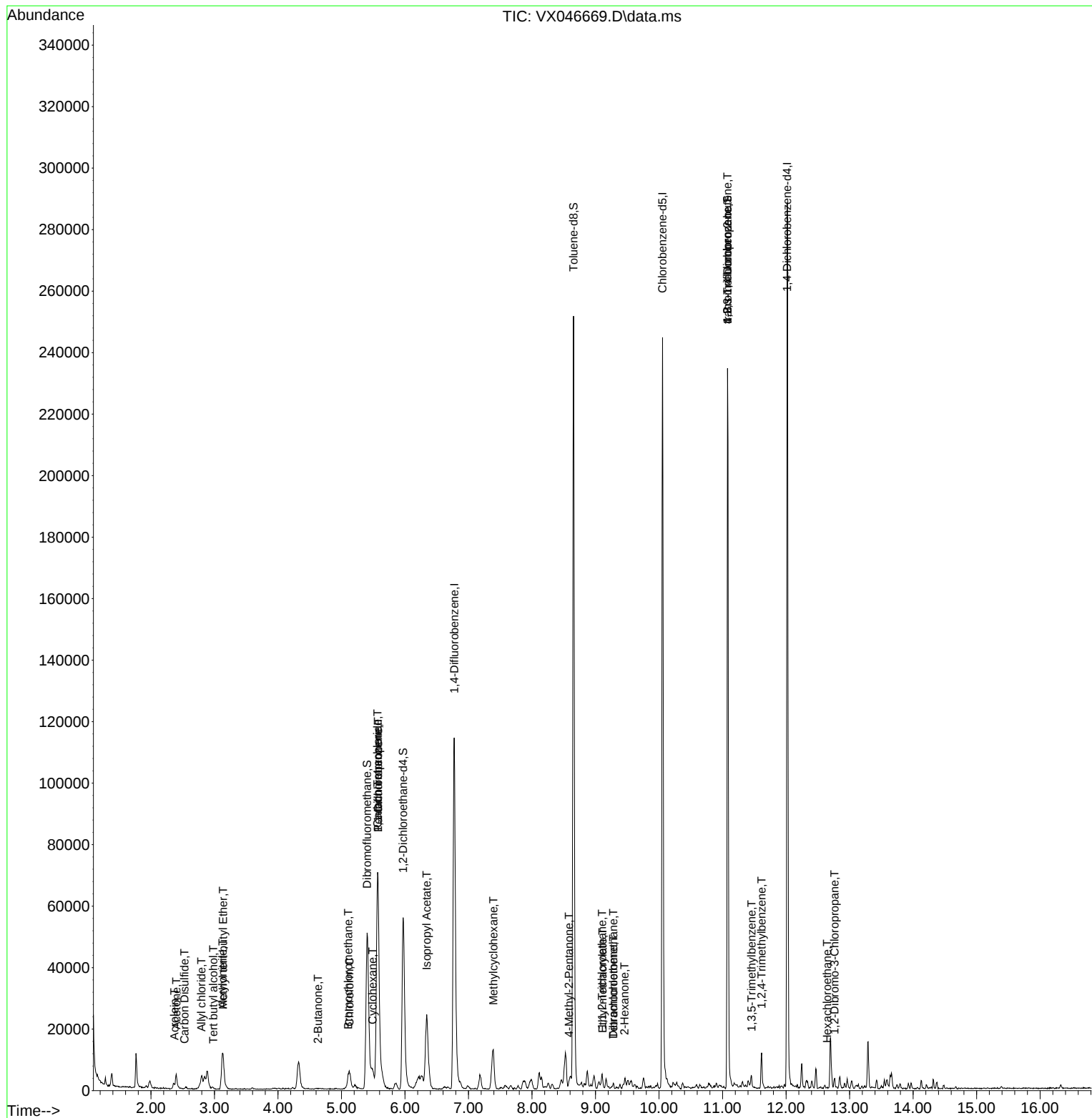
Internal Standards						
1) Pentafluorobenzene	5.574	168	69359	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	121557	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	108481	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58310	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	60109	48.712	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.420%		
35) Dibromofluoromethane	5.403	113	48146	53.859	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	107.720%		
50) Toluene-d8	8.653	98	147659	50.102	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.200%		
62) 4-Bromofluorobenzene	11.079	95	65278	53.534	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	107.060%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.983	59	407	2.972	ug/l #	72
13) Acrolein	2.367	56	259	31.382	ug/l #	54
14) Allyl chloride	2.794	41	1425	0.881	ug/l #	61
15) Acrylonitrile	3.129	53	241	0.466	ug/l #	37
16) Acetone	2.398	43	6505	17.772	ug/l	99
17) Carbon Disulfide	2.526	76	170	0.299	ug/l #	76
19) Methyl tert-butyl Ether	3.136	73	9695	3.365	ug/l #	54
25) 2-Butanone	4.629	43	360	0.524	ug/l #	53
28) Bromochloromethane	5.105	49	201	0.237	ug/l #	17
30) Chloroform	5.123	83	7839	4.210	ug/l	97
31) Cyclohexane	5.489	56	3870	2.698	ug/l #	86
36) 1,1-Dichloropropene	5.574	75	5931	4.645	ug/l #	51
38) Carbon Tetrachloride	5.568	117	7451	5.210	ug/l #	17
39) Methylcyclohexane	7.391	83	5016	3.328	ug/l	97
43) Isopropyl Acetate	6.342	43	8998	4.142	ug/l #	20
51) 4-Methyl-2-Pentanone	8.580	43	1381	1.000	ug/l #	80
55) 1,1,2-Trichloroethane	9.104	97	1233	1.391	ug/l #	20
56) Ethyl methacrylate	9.110	69	312	0.229	ug/l #	1
59) 2-Hexanone	9.458	43	542	0.547	ug/l	79
60) Dibromochloromethane	9.281	129	209	0.200	ug/l #	10
64) Tetrachloroethene	9.281	164	301	0.415	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	34193	27.685	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.457	105	1816	0.475	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	34193	79.860	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.616	105	5662	1.465	ug/l	84
90) Hexachloroethane	12.646	117	250	0.338	ug/l #	19
92) 1,2-Dibromo-3-Chloropr...	12.762	75	100	0.304	ug/l #	10

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

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Quant Time: Jun 13 01:46:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

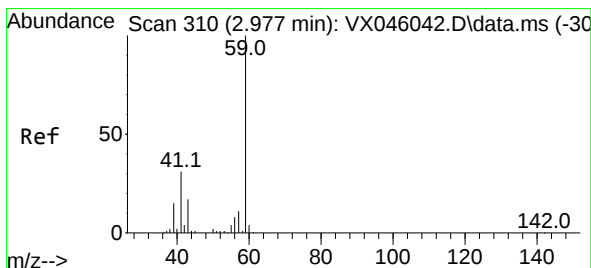
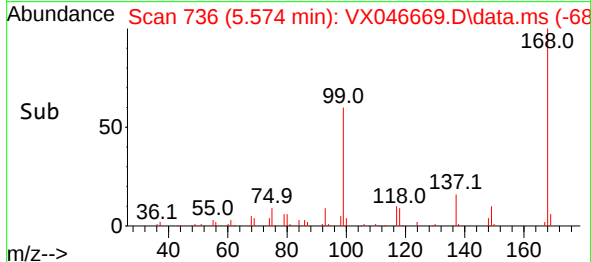
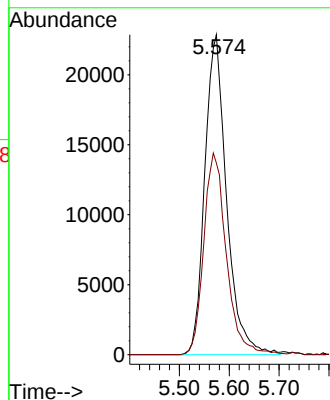
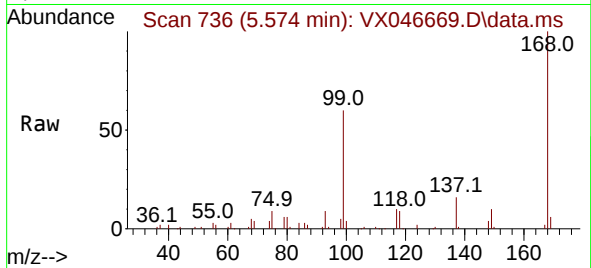




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.574 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

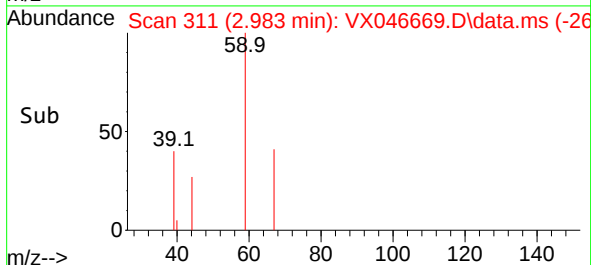
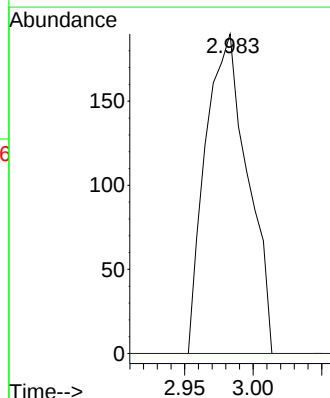
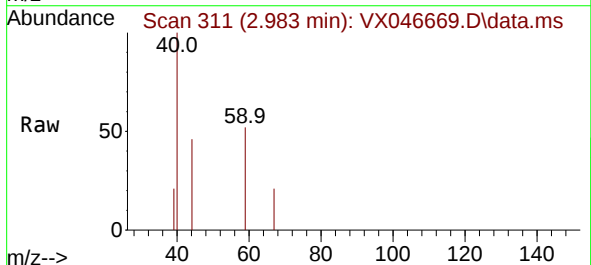
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

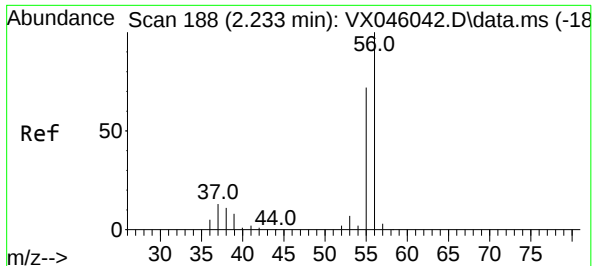
Tgt Ion:168 Resp: 69359
Ion Ratio Lower Upper
168 100
99 59.9 54.9 82.3



#11
Tert butyl alcohol
Concen: 2.972 ug/l
RT: 2.983 min Scan# 311
Delta R.T. 0.012 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 59 Resp: 407
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 31.382 ug/l

RT: 2.367 min Scan# 210

Delta R.T. 0.116 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

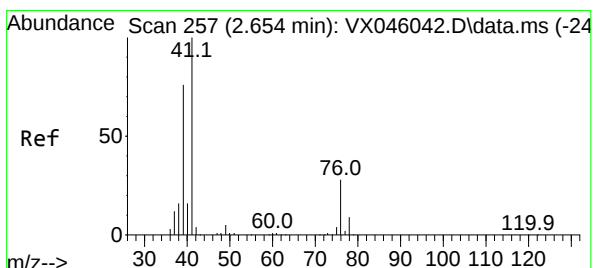
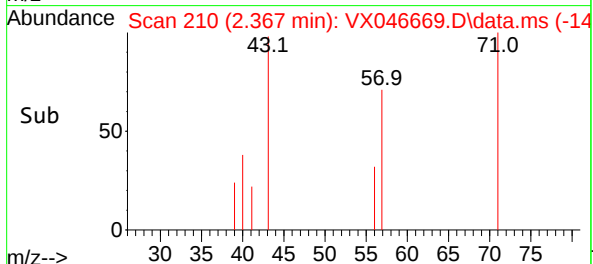
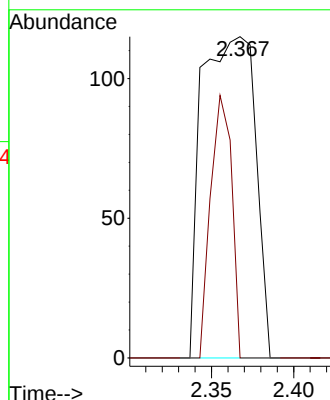
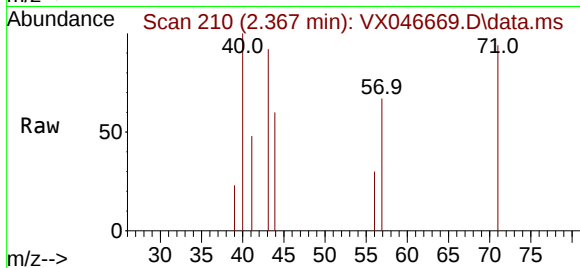
WC-20250605

Tgt Ion: 56 Resp: 259

Ion Ratio Lower Upper

56 100

55 32.4 56.2 84.4#



#14

Allyl chloride

Concen: 0.881 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.110 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

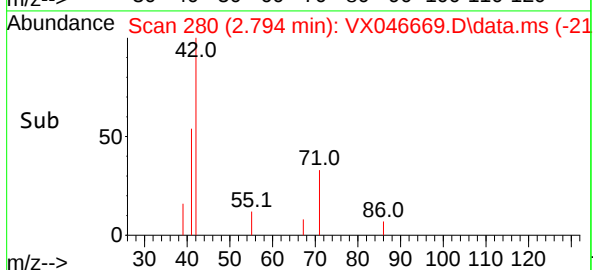
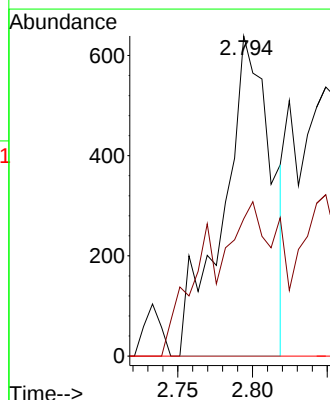
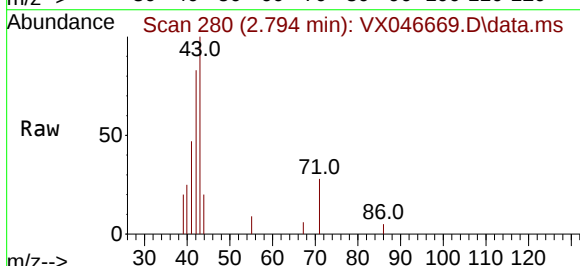
Tgt Ion: 41 Resp: 1425

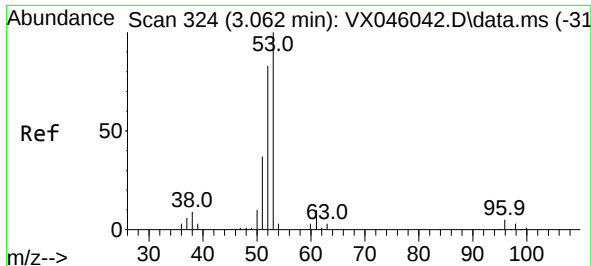
Ion Ratio Lower Upper

41 100

39 48.6 60.6 90.8#

76 0.0 24.9 37.3#





#15

Acrylonitrile

Concen: 0.466 ug/l

RT: 3.129 min Scan# 31

Delta R.T. 0.048 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

WC-20250605

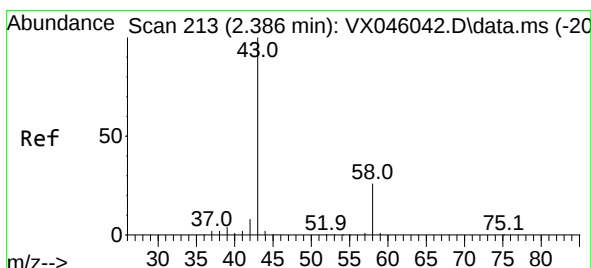
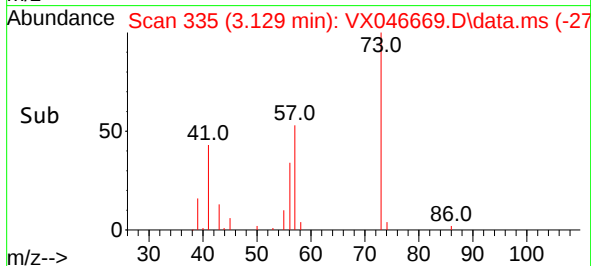
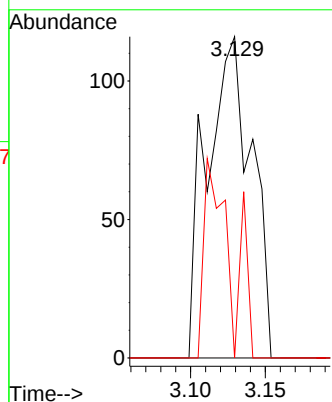
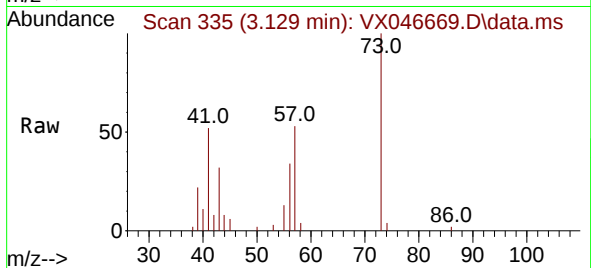
Tgt Ion: 53 Resp: 241

Ion Ratio Lower Upper

53 100

52 0.0 65.3 97.9#

51 36.9 29.8 44.8



#16

Acetone

Concen: 17.772 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX046669.D

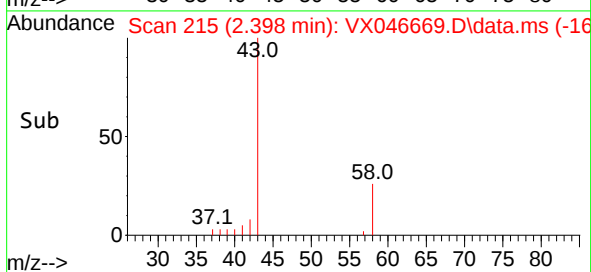
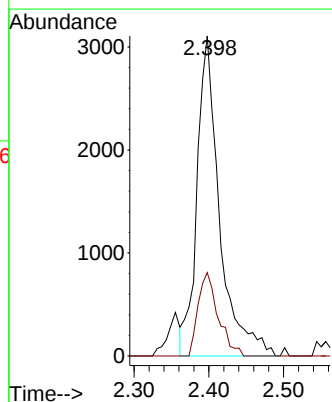
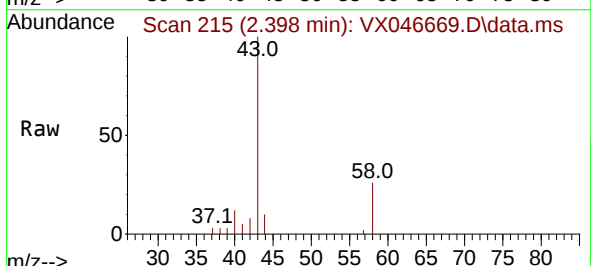
Acq: 12 Jun 2025 17:17

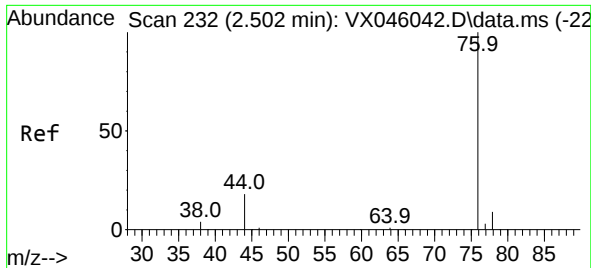
Tgt Ion: 43 Resp: 6505

Ion Ratio Lower Upper

43 100

58 26.0 21.2 31.8

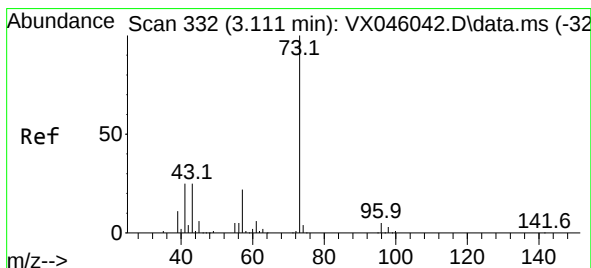
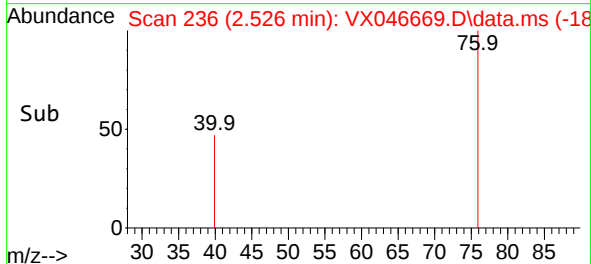
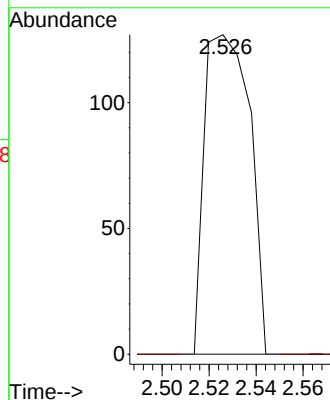
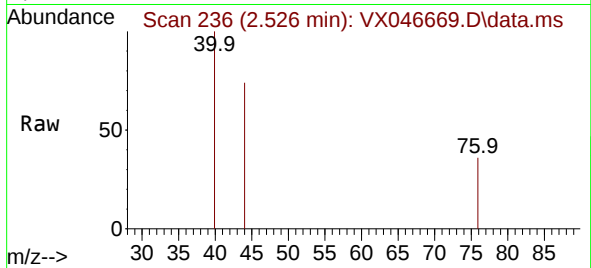




#17
Carbon Disulfide
Concen: 0.299 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

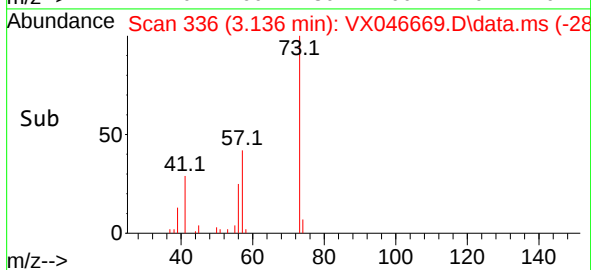
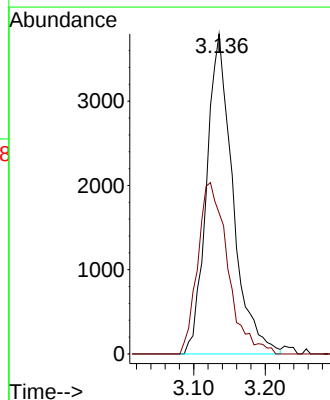
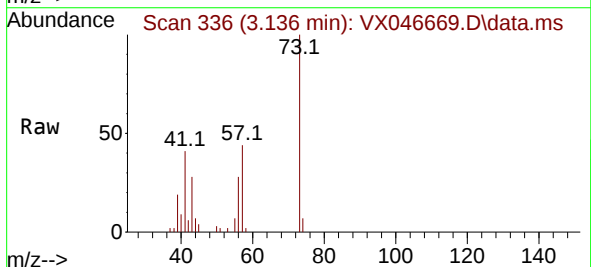
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

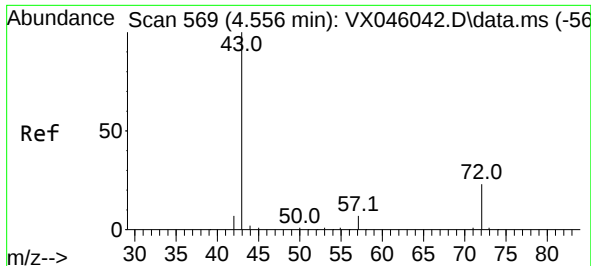
Tgt Ion: 76 Resp: 170
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#19
Methyl tert-butyl Ether
Concen: 3.365 ug/l
RT: 3.136 min Scan# 336
Delta R.T. 0.001 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 73 Resp: 9695
Ion Ratio Lower Upper
73 100
57 44.0 17.7 26.5#

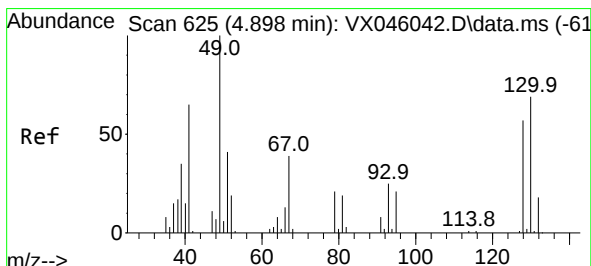
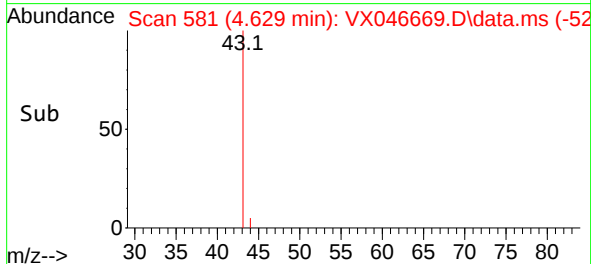
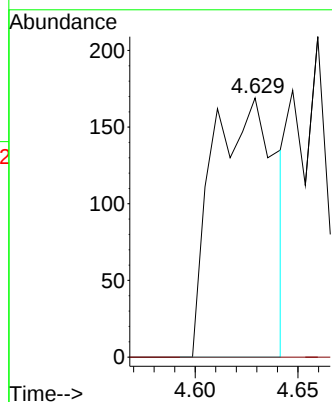
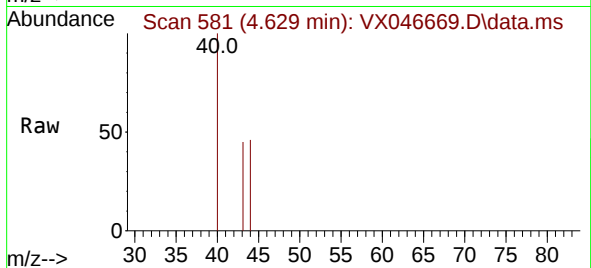




#25
2-Butanone
Concen: 0.524 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.055 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

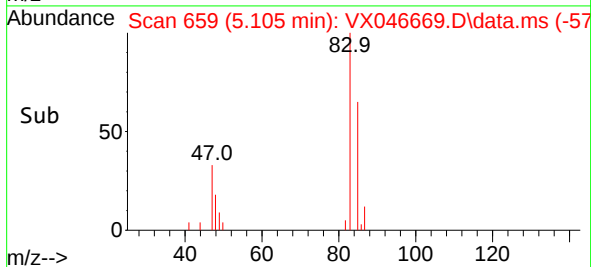
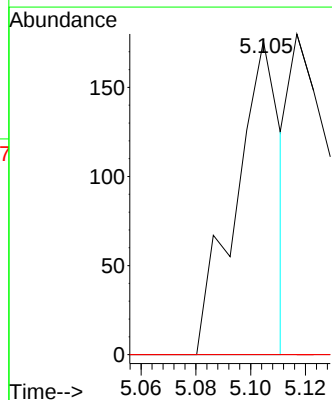
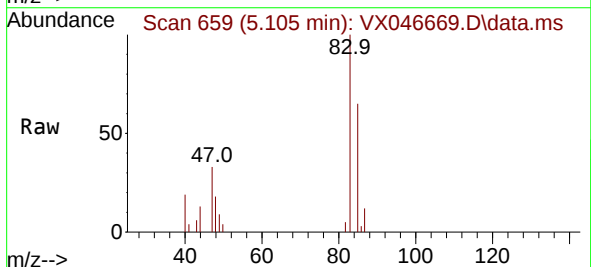
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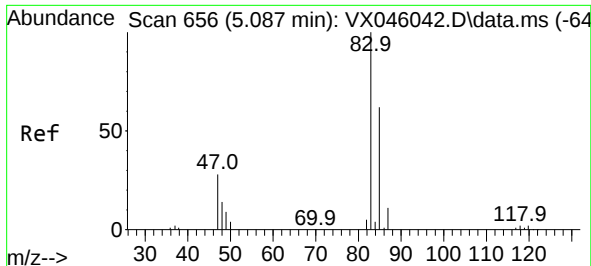
Tgt Ion: 43 Resp: 360
Ion Ratio Lower Upper
43 100
72 0.0 18.4 27.6#



#28
Bromochloromethane
Concen: 0.237 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.189 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 49 Resp: 201
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 56.2 84.2#

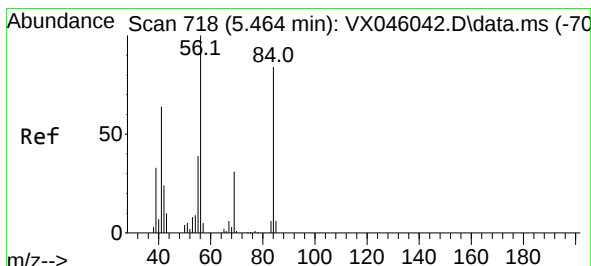
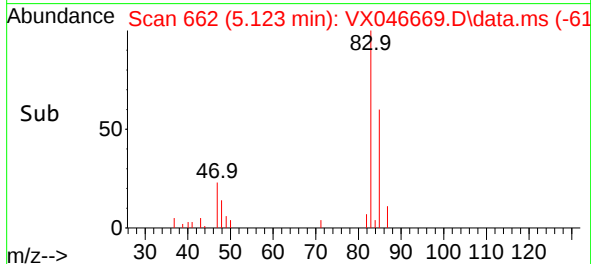
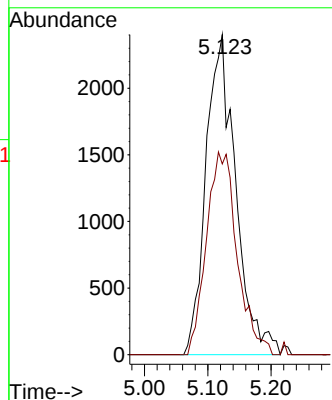
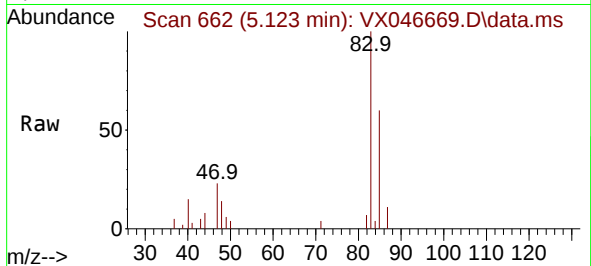




#30
Chloroform
Concen: 4.210 ug/l
RT: 5.123 min Scan# 611
Delta R.T. 0.012 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

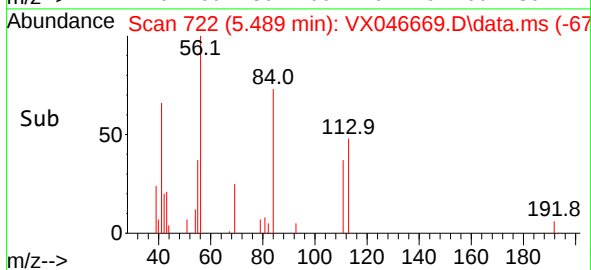
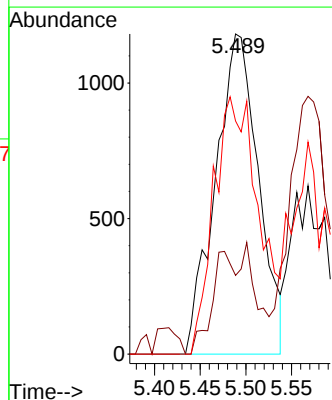
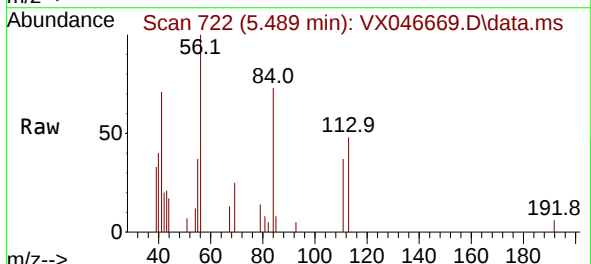
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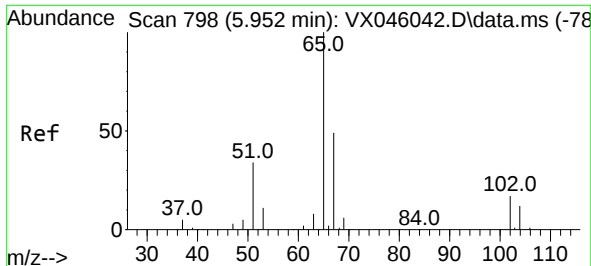
Tgt Ion: 83 Resp: 7839
Ion Ratio Lower Upper
83 100
85 59.6 49.3 73.9



#31
Cyclohexane
Concen: 2.698 ug/l
RT: 5.489 min Scan# 722
Delta R.T. -0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 56 Resp: 3870
Ion Ratio Lower Upper
56 100
69 19.8 24.4 36.6#
84 72.8 66.9 100.3

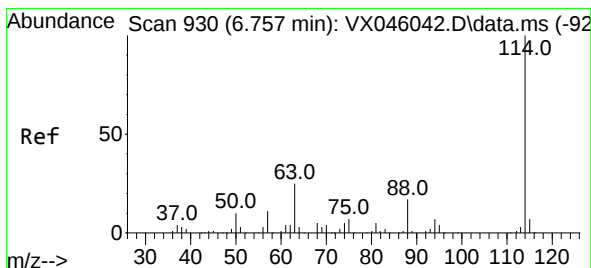
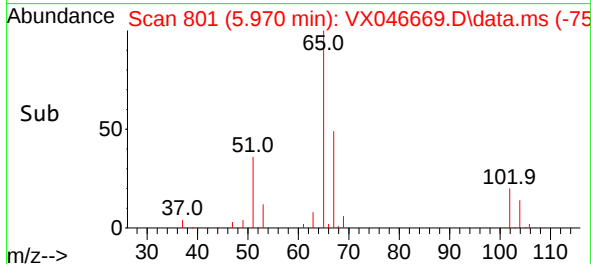
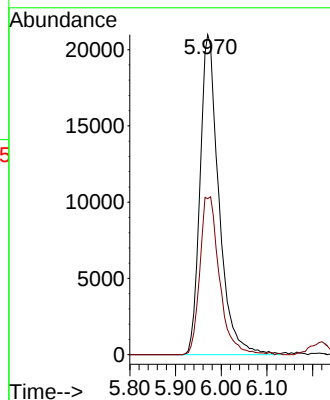
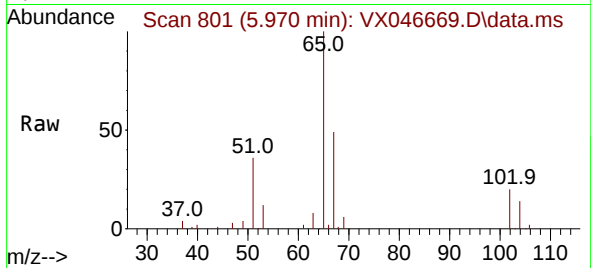




#33
1,2-Dichloroethane-d4
Concen: 48.712 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

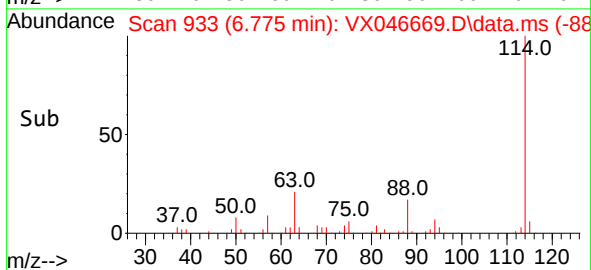
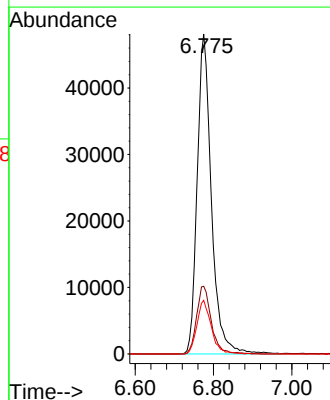
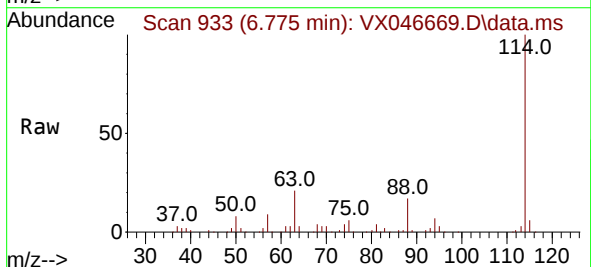
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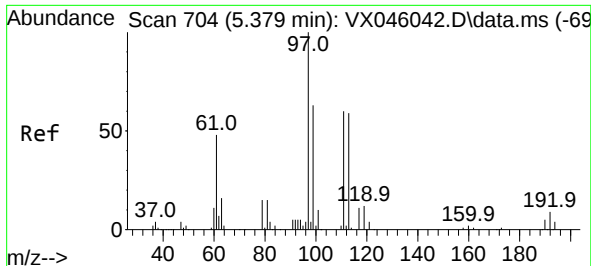
Tgt Ion: 65 Resp: 60109
Ion Ratio Lower Upper
65 100
67 51.4 0.0 99.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 933
Delta R.T. 0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 114 Resp: 121557
Ion Ratio Lower Upper
114 100
63 21.1 0.0 49.2
88 16.8 0.0 33.6

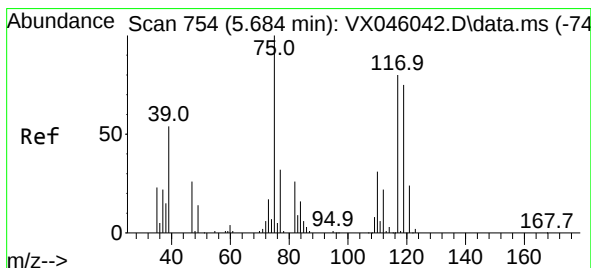
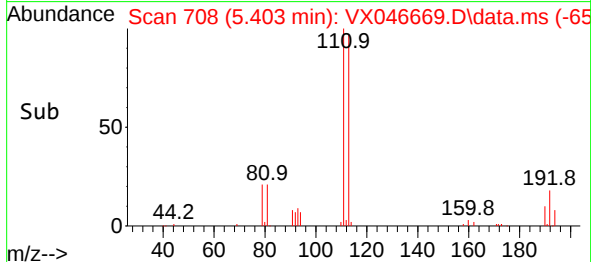
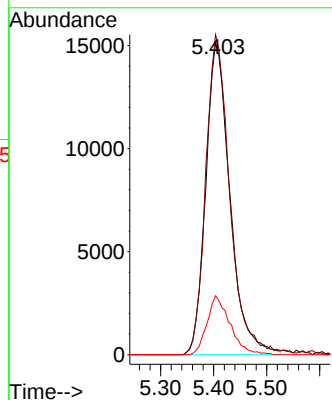
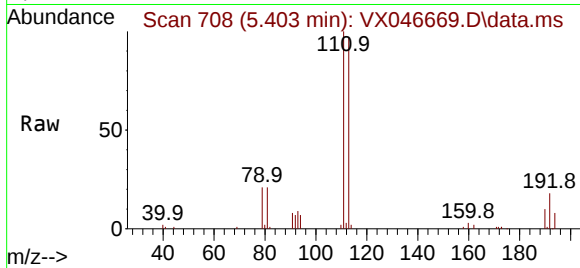




#35
Dibromofluoromethane
Concen: 53.859 ug/l
RT: 5.403 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

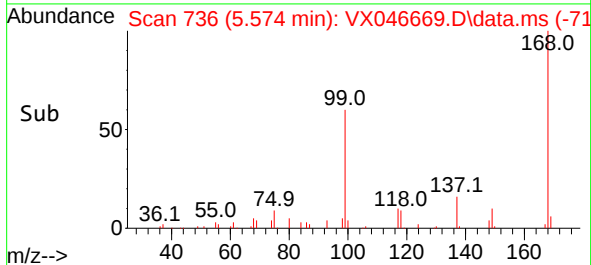
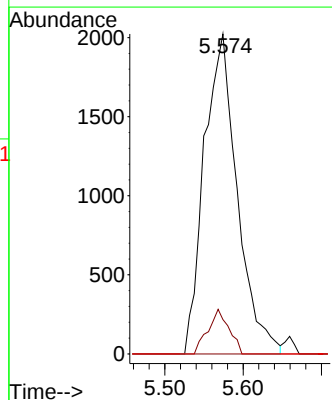
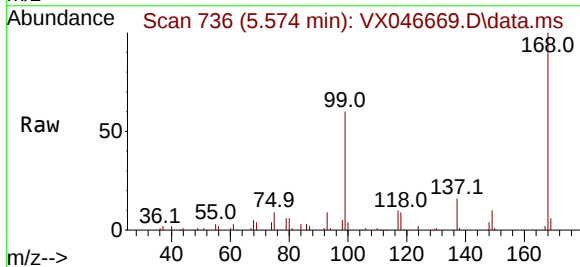
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

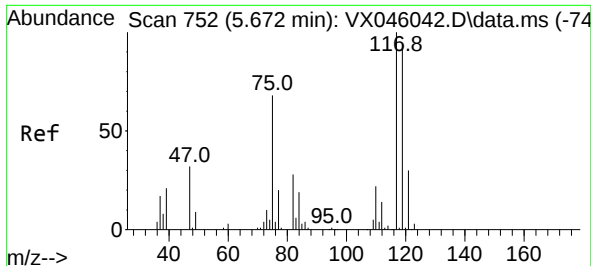
Tgt Ion:113 Resp: 48146
Ion Ratio Lower Upper
113 100
111 102.2 83.1 124.7
192 17.9 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.645 ug/l
RT: 5.574 min Scan# 736
Delta R.T. -0.140 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

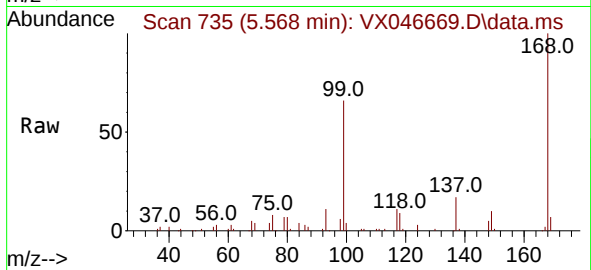
Tgt Ion: 75 Resp: 5931
Ion Ratio Lower Upper
75 100
110 8.9 16.3 48.9#
77 0.0 24.3 36.5#



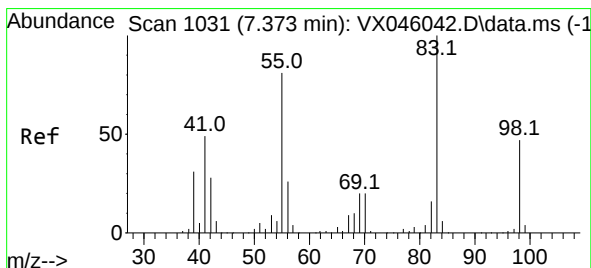
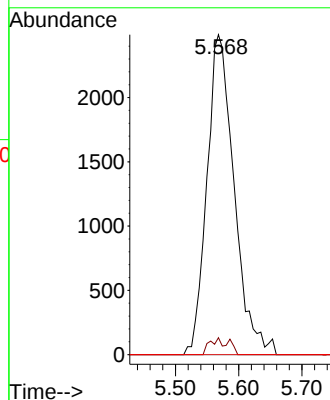
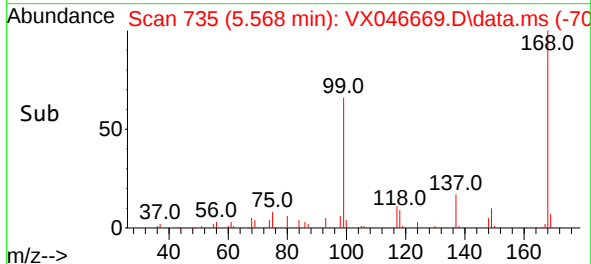


#38
Carbon Tetrachloride
Concen: 5.210 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

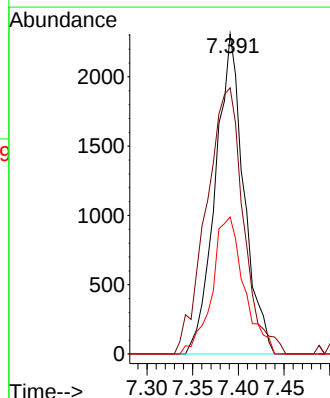
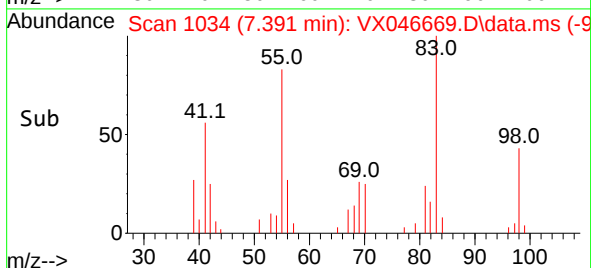
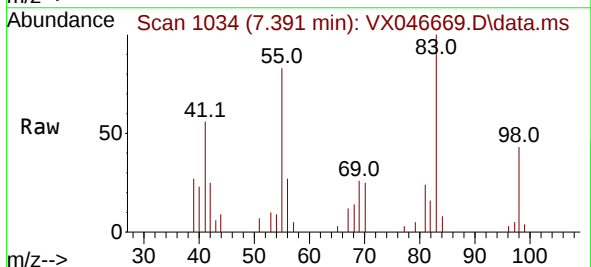


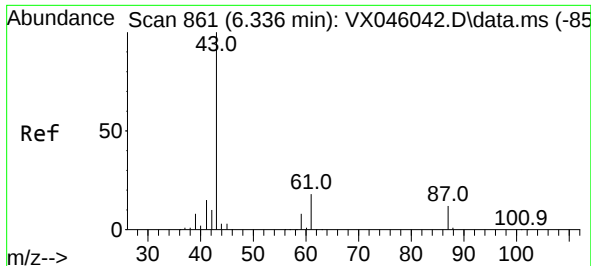
Tgt Ion:117 Resp: 7451
Ion Ratio Lower Upper
117 100
119 5.3 75.2 112.8#
121 0.0 24.2 36.4#



#39
Methylcyclohexane
Concen: 3.328 ug/l
RT: 7.391 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 83 Resp: 5016
Ion Ratio Lower Upper
83 100
55 80.0 64.7 97.1
98 42.8 37.4 56.2

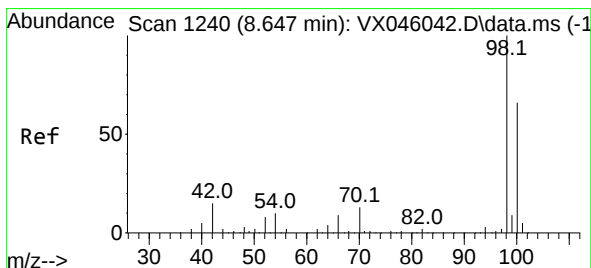
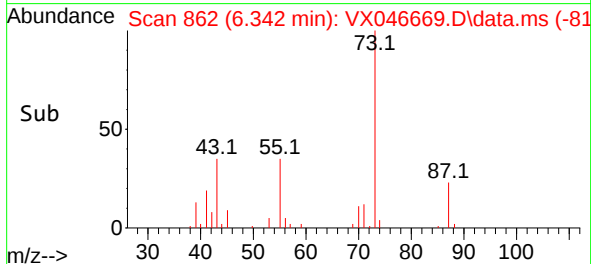
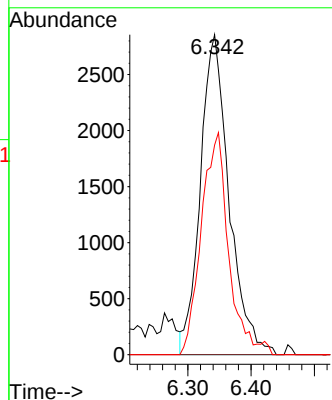
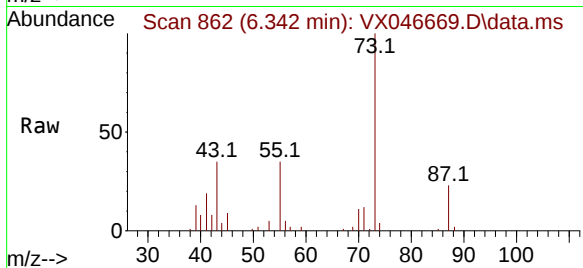




#43
Isopropyl Acetate
Concen: 4.142 ug/l
RT: 6.342 min Scan# 861
Delta R.T. -0.012 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

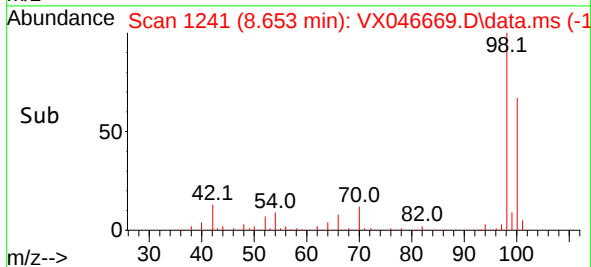
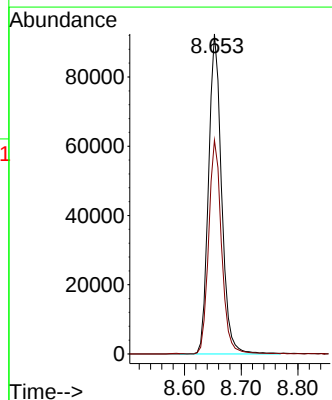
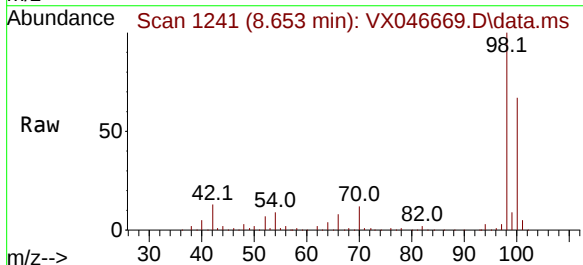
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

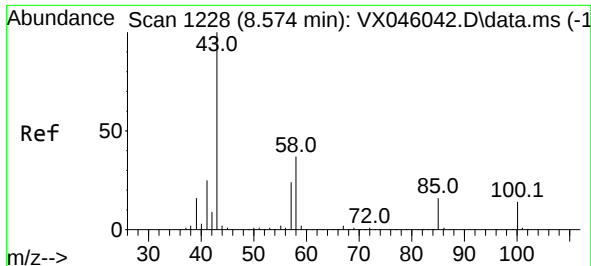
Tgt Ion: 43 Resp: 8998
Ion Ratio Lower Upper
43 100
61 0.0 14.3 21.5#
87 65.4 9.5 14.3#



#50
Toluene-d8
Concen: 50.102 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 98 Resp: 147659
Ion Ratio Lower Upper
98 100
100 66.1 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 1.000 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.007 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

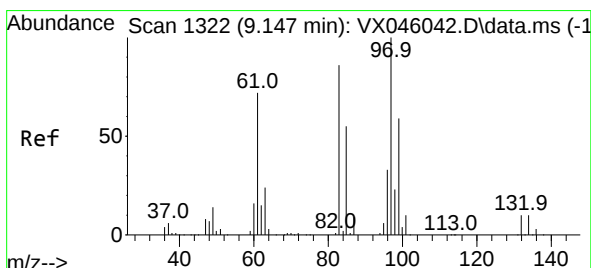
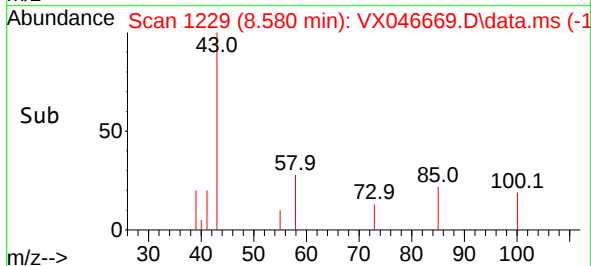
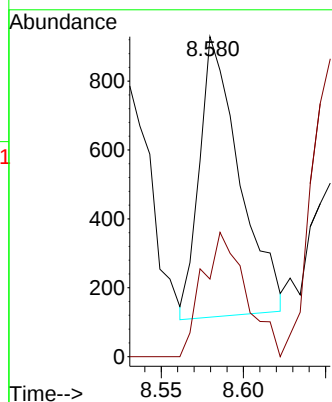
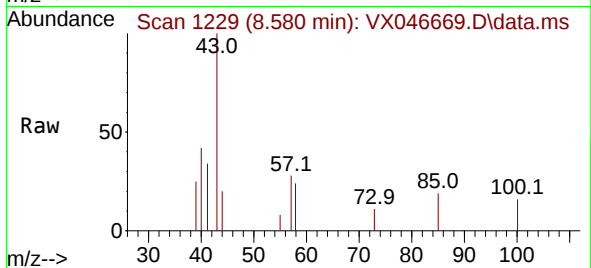
WC-20250605

Tgt Ion: 43 Resp: 1381

Ion Ratio Lower Upper

43 100

58 47.8 28.9 43.3#



#55

1,1,2-Trichloroethane

Concen: 1.391 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.049 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Tgt Ion: 97 Resp: 1233

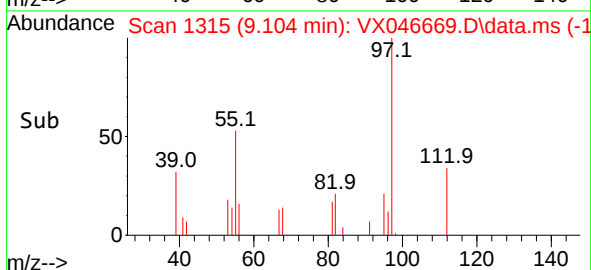
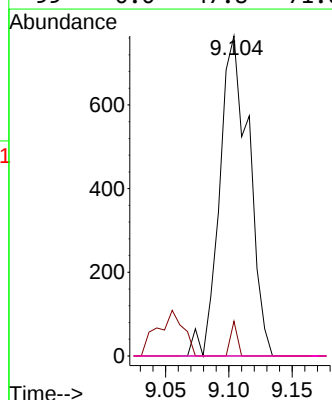
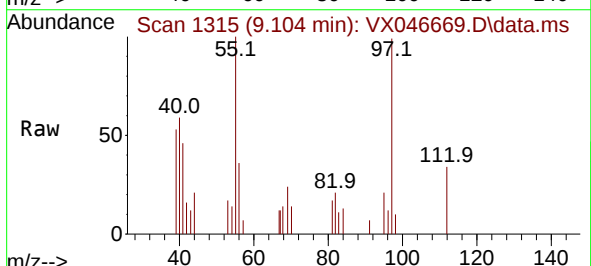
Ion Ratio Lower Upper

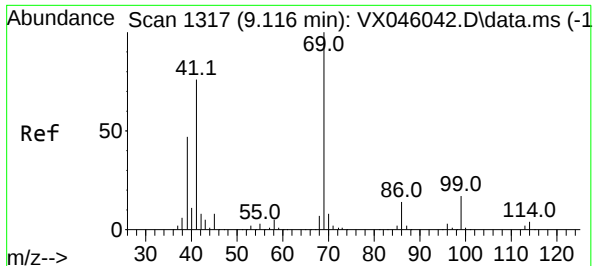
97 100

83 10.8 69.0 103.6#

85 0.0 44.3 66.5#

99 0.0 47.8 71.6#





#56

Ethyl methacrylate

Concen: 0.229 ug/l

RT: 9.110 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

WC-20250605

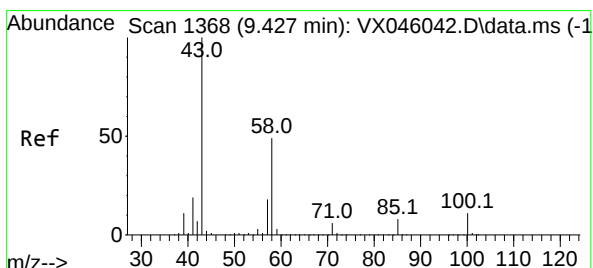
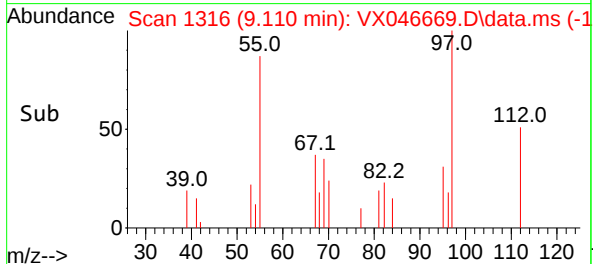
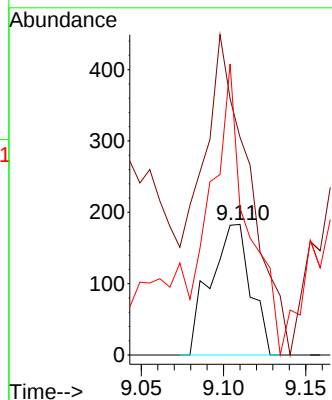
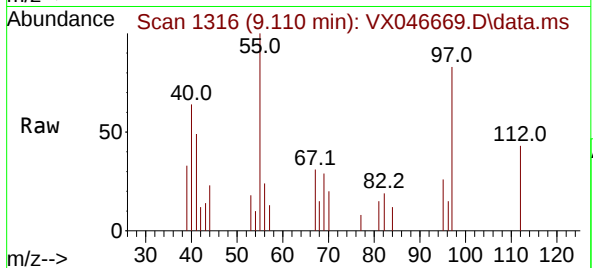
Tgt Ion: 69 Resp: 312

Ion Ratio Lower Upper

69 100

41 291.7 60.8 91.2#

39 198.1 39.0 58.6#



#59

2-Hexanone

Concen: 0.547 ug/l

RT: 9.458 min Scan# 1373

Delta R.T. 0.025 min

Lab File: VX046669.D

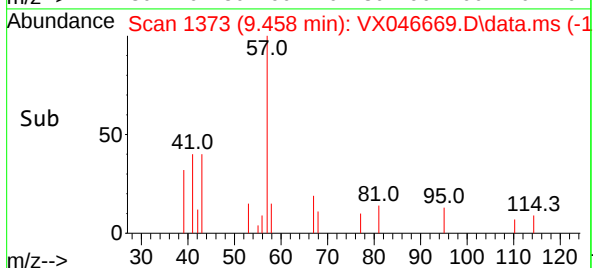
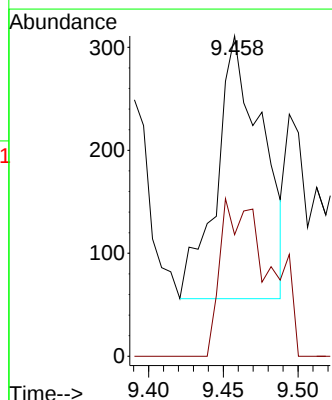
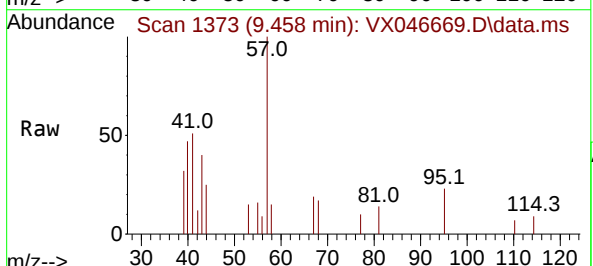
Acq: 12 Jun 2025 17:17

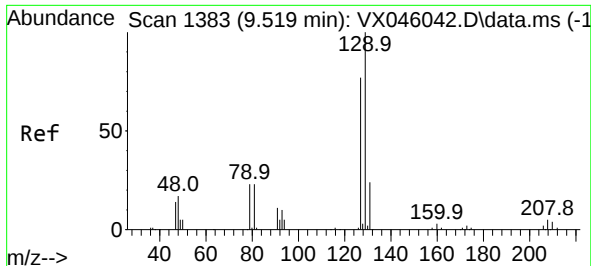
Tgt Ion: 43 Resp: 542

Ion Ratio Lower Upper

43 100

58 63.8 24.9 74.6

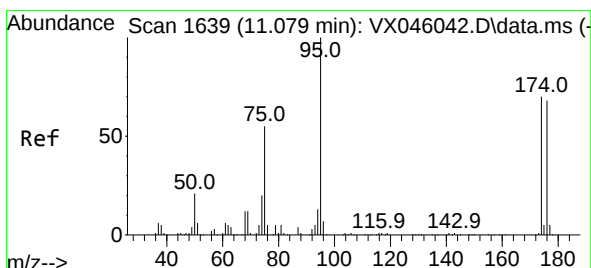
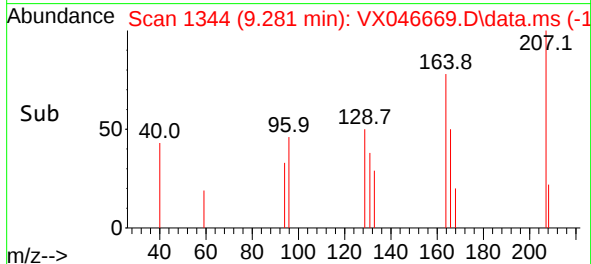
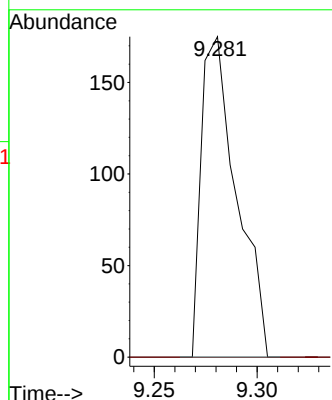
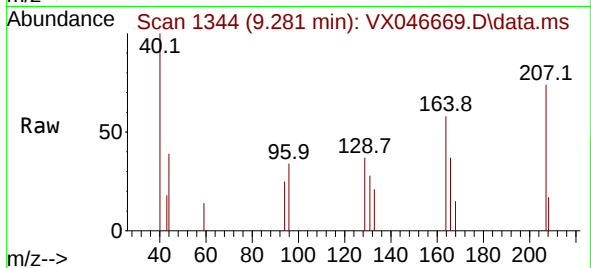




#60
Dibromochloromethane
Concen: 0.200 ug/l
RT: 9.281 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

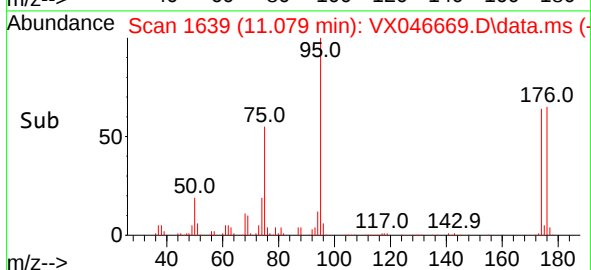
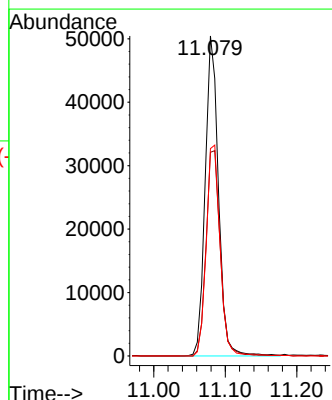
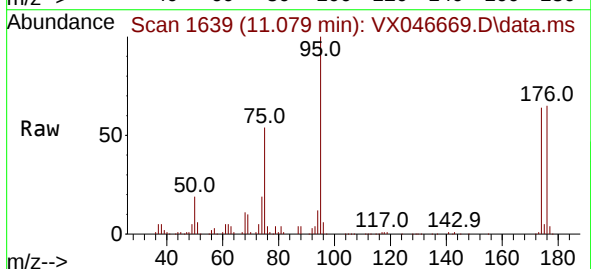
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

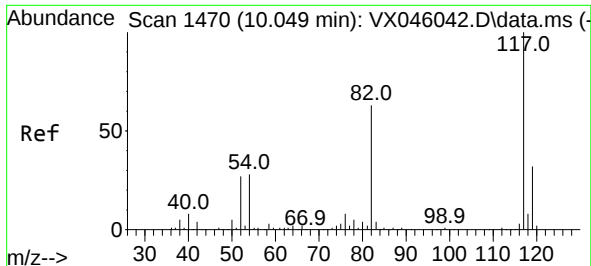
Tgt Ion:129 Resp: 209
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.8#



#62
4-Bromofluorobenzene
Concen: 53.534 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion: 95 Resp: 65278
Ion Ratio Lower Upper
95 100
174 68.4 0.0 135.8
176 68.5 0.0 131.4

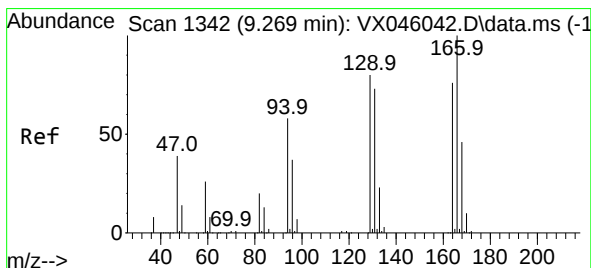
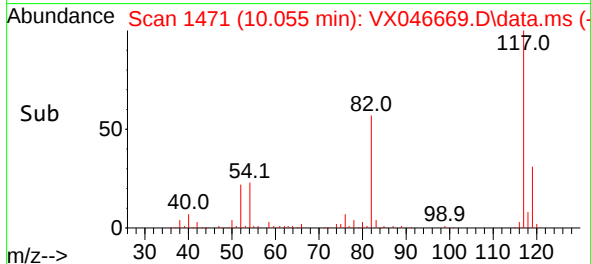
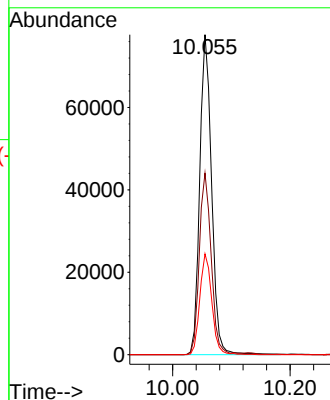
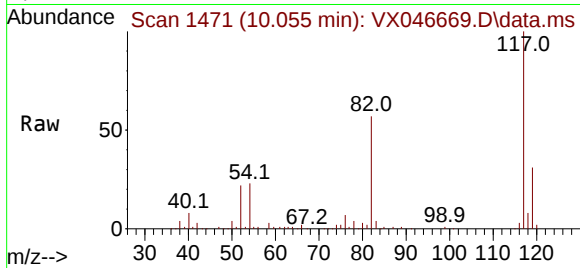




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

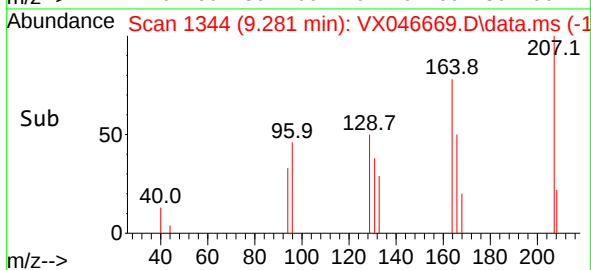
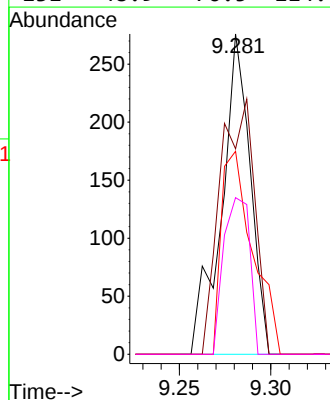
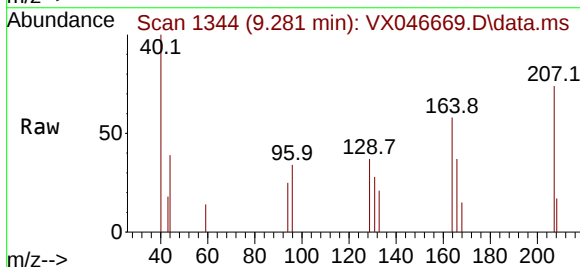
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

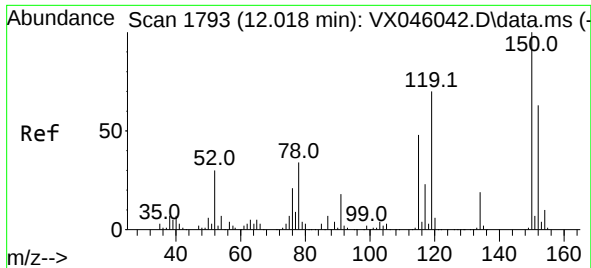
Tgt Ion:117 Resp: 108481
Ion Ratio Lower Upper
117 100
82 56.8 50.6 76.0
119 31.5 25.8 38.6



#64
Tetrachloroethene
Concen: 0.415 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion:164 Resp: 301
Ion Ratio Lower Upper
164 100
166 64.1 105.0 157.6#
129 63.4 83.5 125.3#
131 48.9 76.5 114.7#

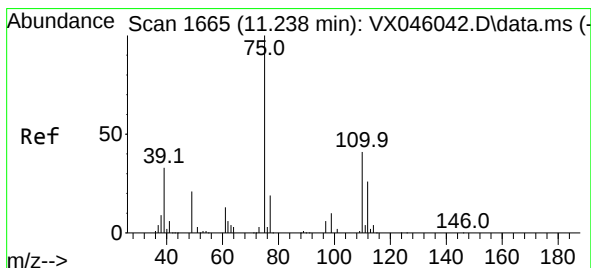
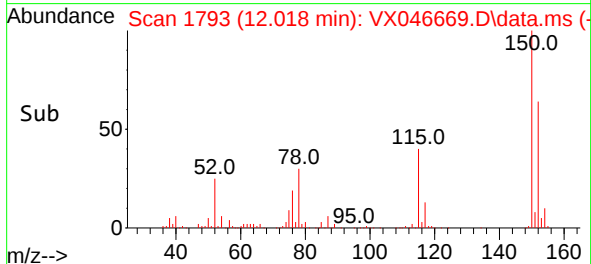
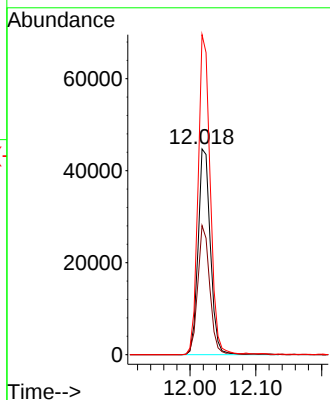
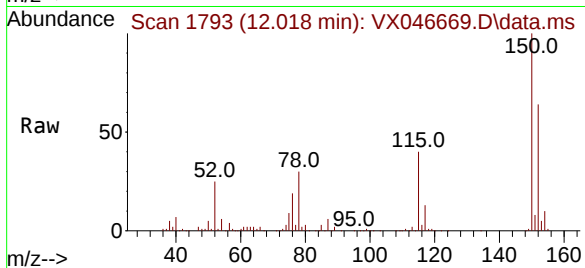




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX046669.D
 Acq: 12 Jun 2025 17:17

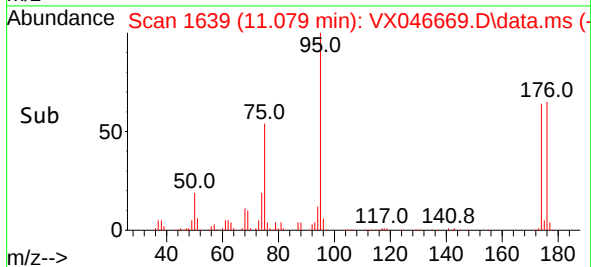
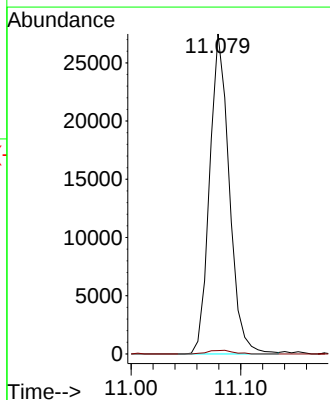
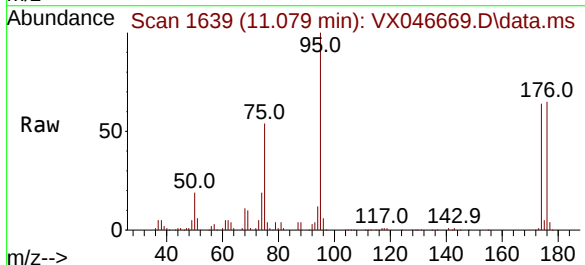
Instrument :
 MSVOA_X
 ClientSampleId :
 WC-20250605

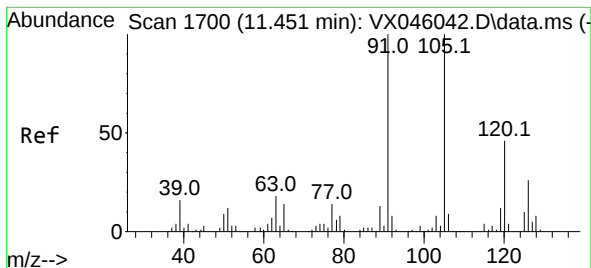
Tgt Ion:152 Resp: 58310
 Ion Ratio Lower Upper
 152 100
 115 61.3 46.9 140.7
 150 152.6 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 27.685 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX046669.D
 Acq: 12 Jun 2025 17:17

Tgt Ion: 75 Resp: 34193
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.5 61.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.475 ug/l

RT: 11.457 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

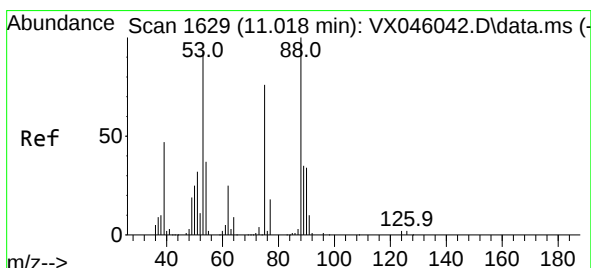
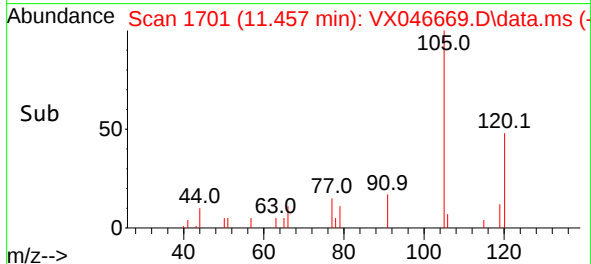
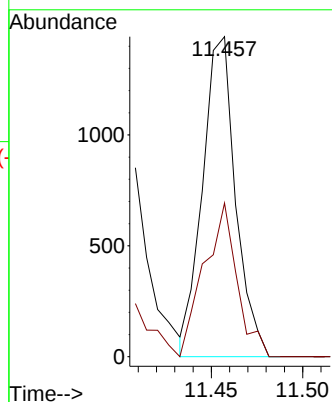
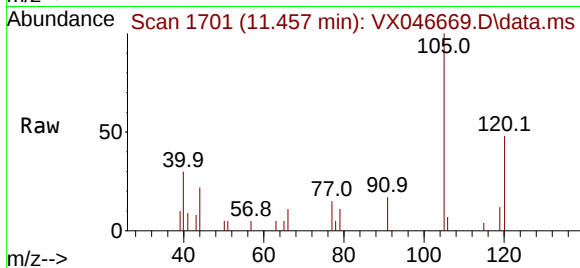
WC-20250605

Tgt Ion:105 Resp: 1816

Ion Ratio Lower Upper

105 100

120 47.8 23.1 69.2



#81

trans-1,4-Dichloro-2-butene

Concen: 79.860 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046669.D

Acq: 12 Jun 2025 17:17

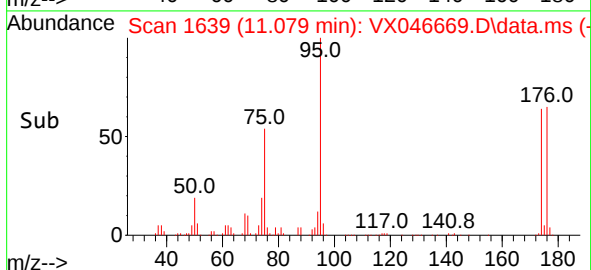
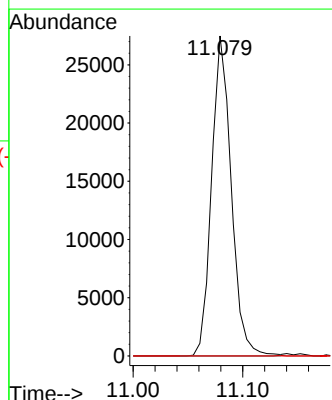
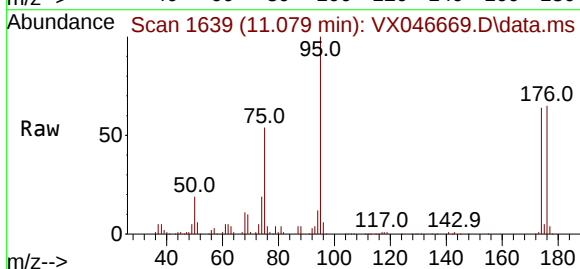
Tgt Ion: 75 Resp: 34193

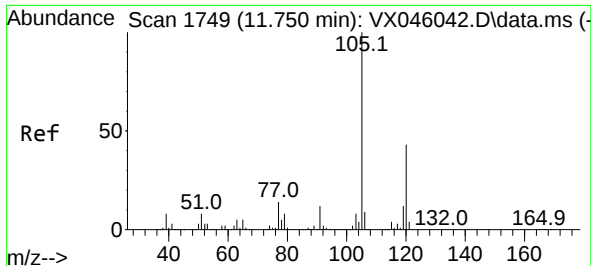
Ion Ratio Lower Upper

75 100

53 0.0 100.5 150.7#

89 0.0 37.0 55.6#

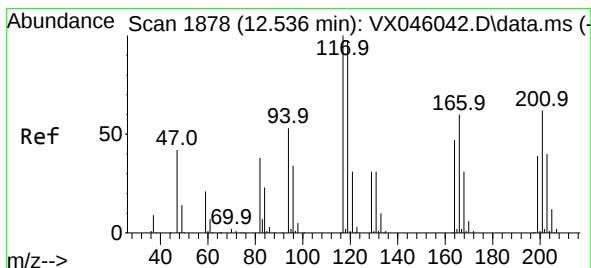
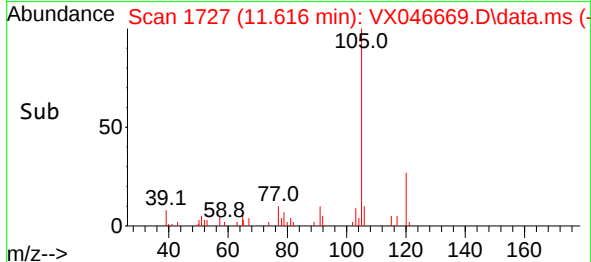
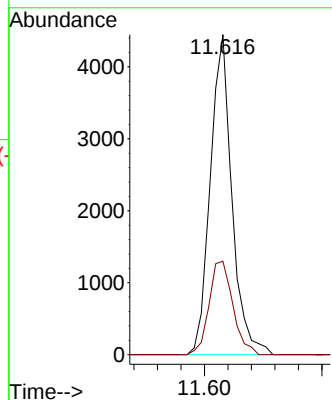
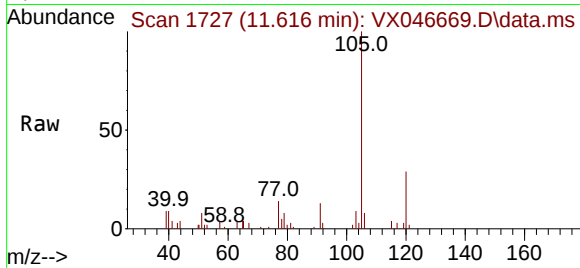




#84
1,2,4-Trimethylbenzene
Concen: 1.465 ug/l
RT: 11.616 min Scan# 11
Delta R.T. -0.134 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

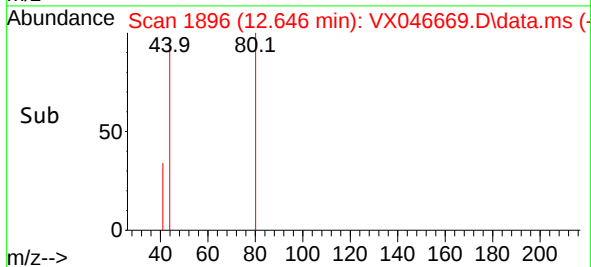
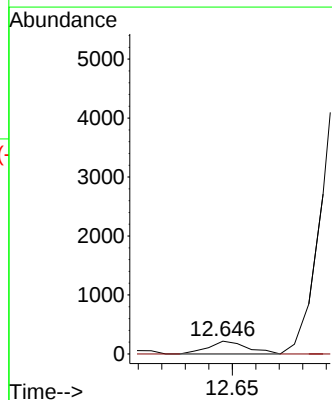
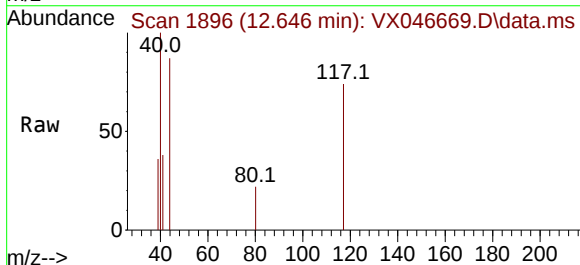
Instrument :
MSVOA_X
ClientSampleId :
WC-20250605

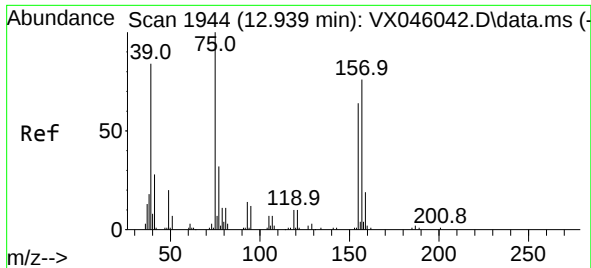
Tgt Ion:105 Resp: 5662
Ion Ratio Lower Upper
105 100
120 32.2 21.2 63.6



#90
Hexachloroethane
Concen: 0.338 ug/l
RT: 12.646 min Scan# 1896
Delta R.T. 0.110 min
Lab File: VX046669.D
Acq: 12 Jun 2025 17:17

Tgt Ion:117 Resp: 250
Ion Ratio Lower Upper
117 100
201 0.0 31.6 94.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.304 ug/l

RT: 12.762 min Scan# 1915

Delta R.T. -0.177 min

Lab File: VX046669.D

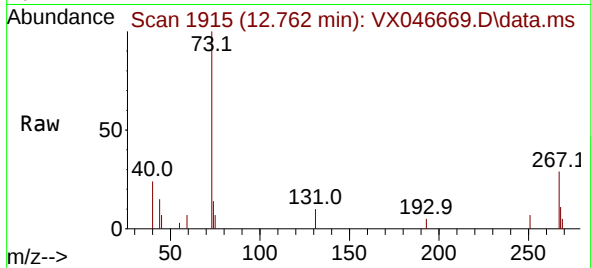
Acq: 12 Jun 2025 17:17

Instrument :

MSVOA_X

ClientSampleId :

WC-20250605



Tgt Ion: 75 Resp: 100

Ion Ratio Lower Upper

75 100

155 0.0 34.9 104.8#

157 0.0 43.8 131.4#

