

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039261.D
 Acq On : 03 Oct 2025 19:34
 Operator : SY/MD
 Sample : Q3201-06 500X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW3

Quant Time: Oct 04 01:17:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

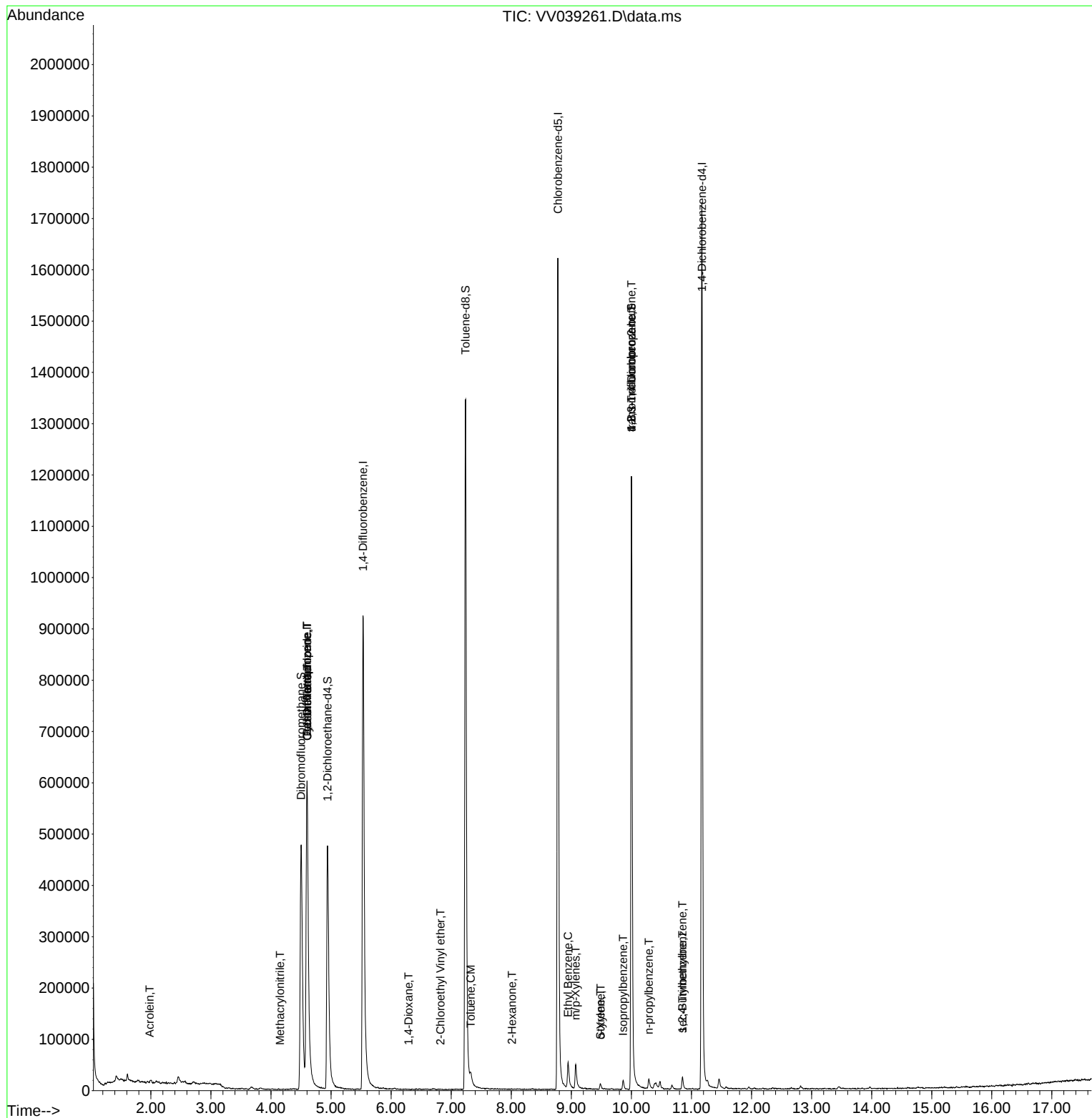
Internal Standards						
1) Pentafluorobenzene	4.600	168	525432	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	916787	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	926199	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	470598	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	419047	55.105	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 110.200%			
35) Dibromofluoromethane	4.503	113	406648	55.174	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 110.340%			
50) Toluene-d8	7.239	98	984663	45.488	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.980%			
62) 4-Bromofluorobenzene	10.001	95	415281	46.602	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 93.200%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.577	64	855	Below Cal	#	47
13) Acrolein	1.982	56	297	1.065	ug/l #	1
16) Acetone	2.137	43	623	Below Cal	#	63
20) Methylene Chloride	2.458	84	5552	Below Cal		97
31) Cyclohexane	4.603	56	11245	0.829	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	43796	3.930	ug/l #	50
38) Carbon Tetrachloride	4.603	117	53546	3.932	ug/l #	16
41) Methacrylonitrile	4.149	41	54	1.919	ug/l #	38
49) 1,4-Dioxane	6.291	88	91	0.675	ug/l #	10
52) Toluene	7.326	92	11474	0.545	ug/l	92
58) 2-Chloroethyl Vinyl ether	6.821	63	40	9.629	ug/l #	47
59) 2-Hexanone	8.011	43	125	2.338	ug/l	73
67) Ethyl Benzene	8.947	91	40417	1.035	ug/l	96
68) m/p-Xylenes	9.072	106	14508	0.963	ug/l	93
69) o-Xylene	9.487	106	2922	0.219	ug/l	91
70) Styrene	9.484	104	129	1.566	ug/l #	1
73) Isopropylbenzene	9.863	105	10356	0.303	ug/l	93
76) 1,2,3-Trichloropropane	10.001	75	198688	18.543	ug/l #	57
78) n-propylbenzene	10.291	91	15828	0.381	ug/l	97
81) trans-1,4-Dichloro-2-b...	10.001	75	198688	44.517	ug/l #	13
84) 1,2,4-Trimethylbenzene	10.850	105	13184	0.479	ug/l	95
85) sec-Butylbenzene	10.850	105	13184	0.351	ug/l #	58
92) 1,2-Dibromo-3-Chloropr...	12.345	75	101	Below Cal	#	5

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

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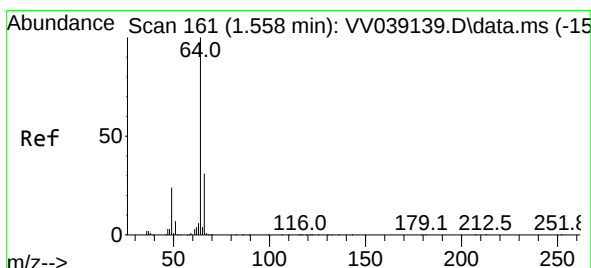
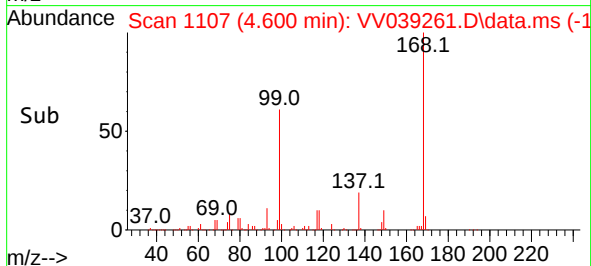
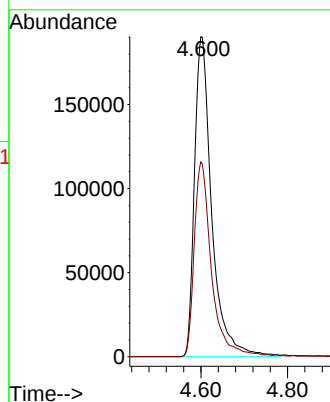
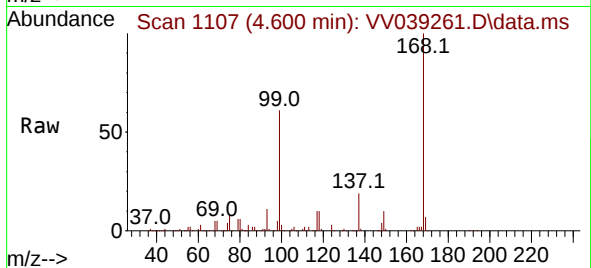




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

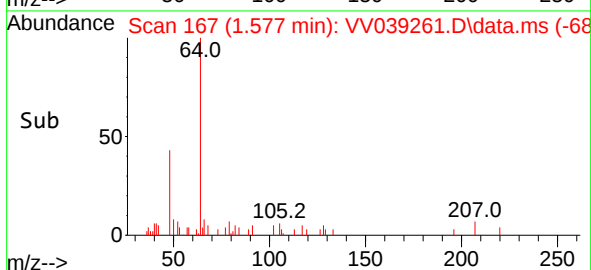
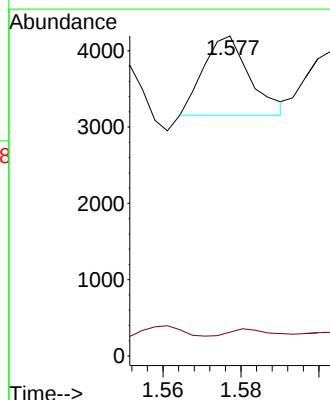
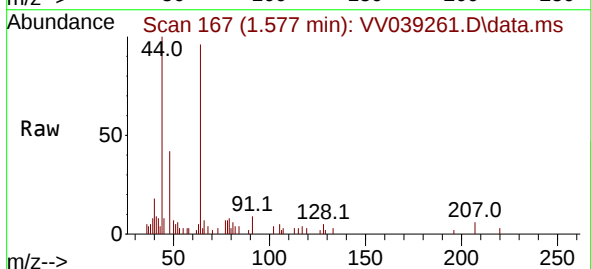
Instrument :
MSVOA_V
ClientSampleId :
MW3

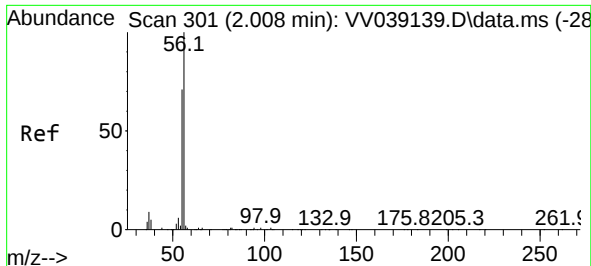
Tgt Ion:168 Resp: 525432
Ion Ratio Lower Upper
168 100
99 60.8 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.577 min Scan# 167
Delta R.T. 0.019 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 64 Resp: 855
Ion Ratio Lower Upper
64 100
66 1.8 24.6 36.8#

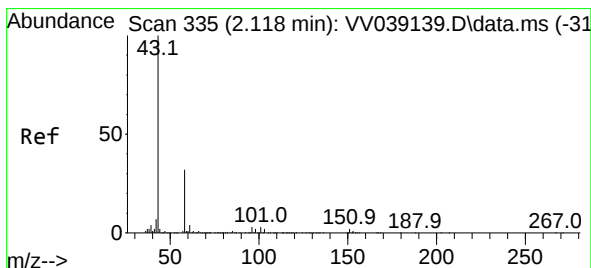
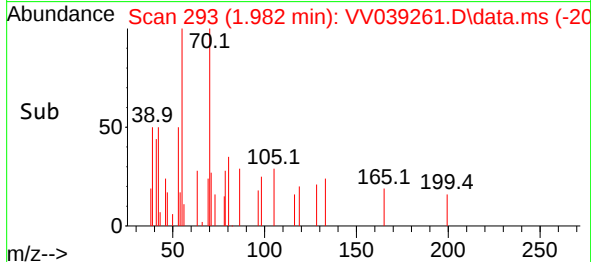
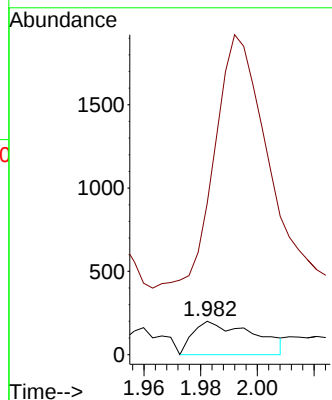
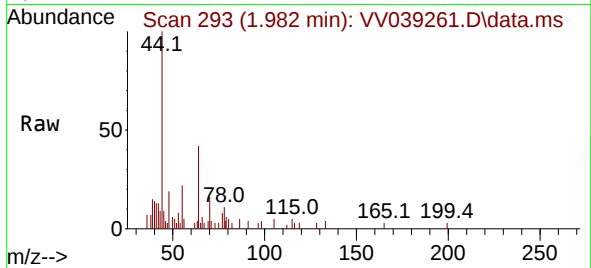




#13
Acrolein
Concen: 1.065 ug/l
RT: 1.982 min Scan# 293
Delta R.T. -0.026 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

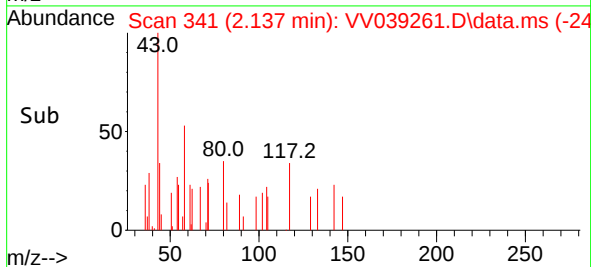
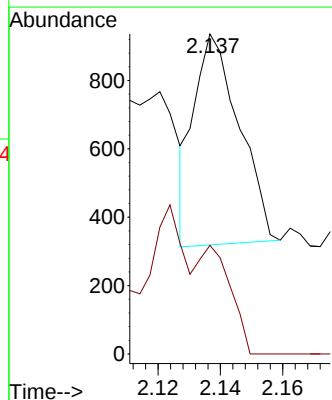
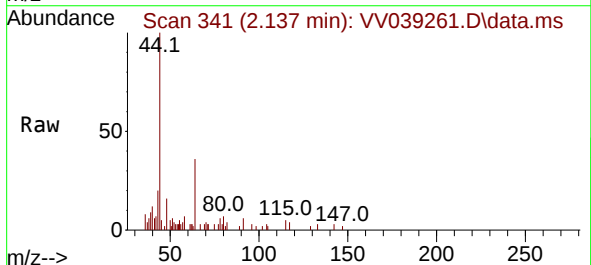
Instrument :
MSVOA_V
ClientSampleId :
MW3

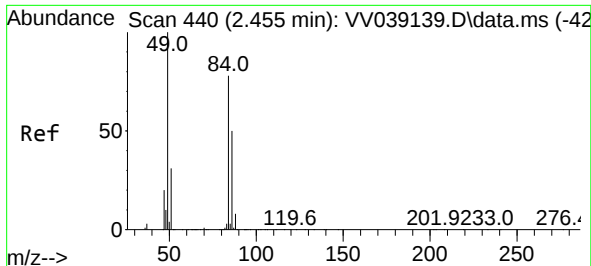
Tgt Ion: 56 Resp: 297
Ion Ratio Lower Upper
56 100
55 989.2 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.137 min Scan# 341
Delta R.T. 0.019 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
58 52.7 25.8 38.6#

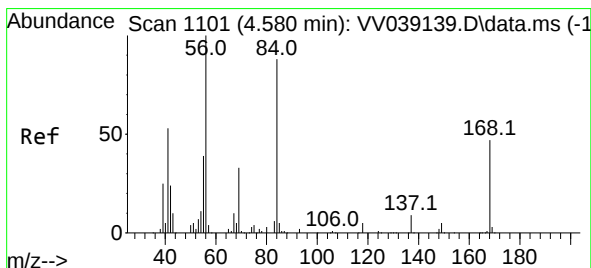
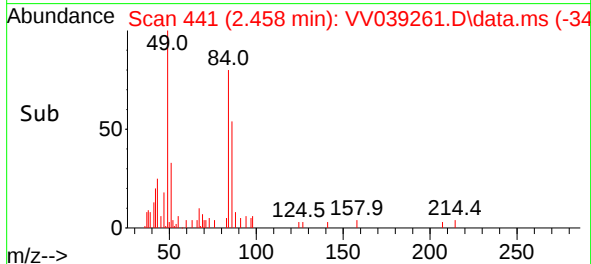
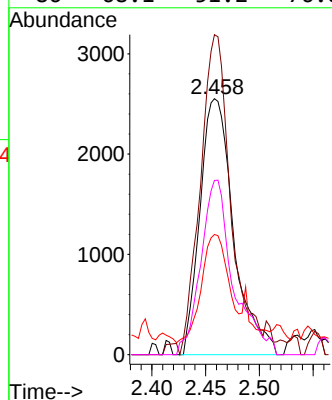
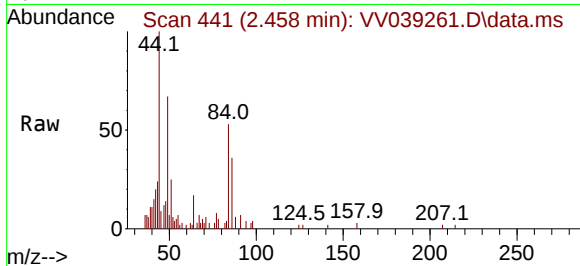




#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

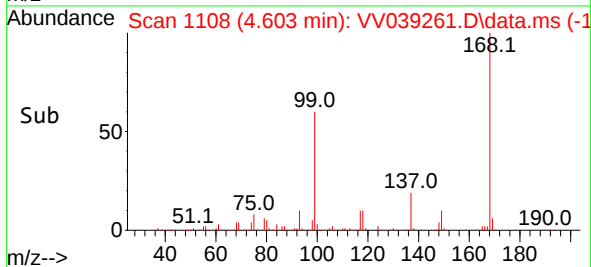
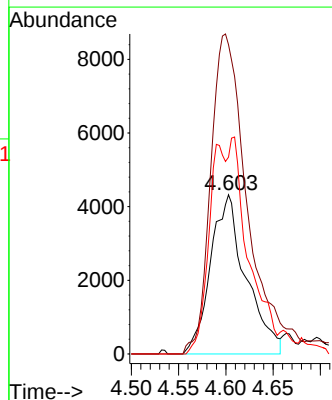
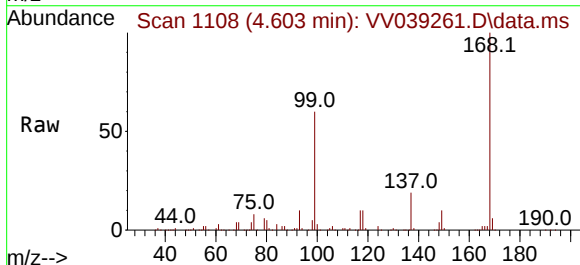
Instrument :
MSVOA_V
ClientSampleId :
MW3

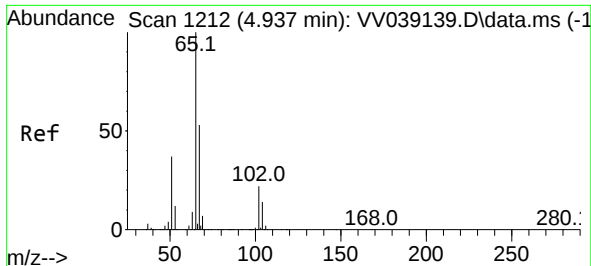
Tgt Ion:	84	Resp:	5552
Ion	Ratio	Lower	Upper
84	100		
49	125.0	102.8	154.2
51	41.2	31.9	47.9
86	68.1	51.2	76.8



#31
Cyclohexane
Concen: 0.829 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion:	56	Resp:	11245
Ion	Ratio	Lower	Upper
56	100		
69	194.2	26.2	39.2#
84	123.6	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 55.105 ug/l

RT: 4.940 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

Instrument :

MSVOA_V

ClientSampleId :

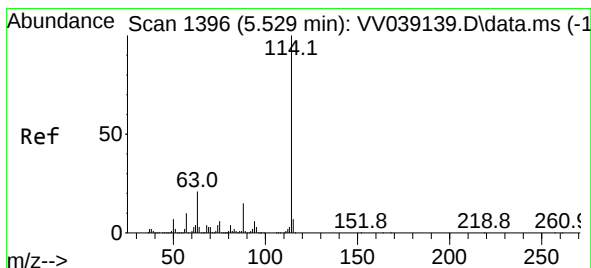
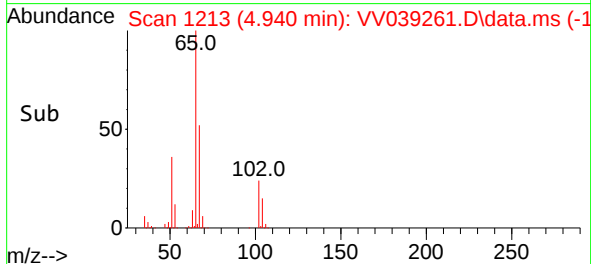
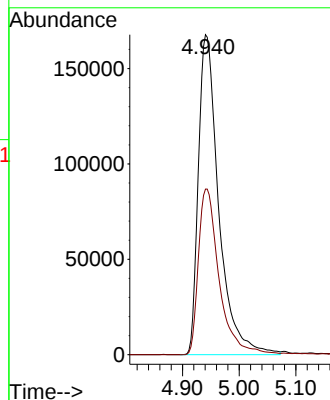
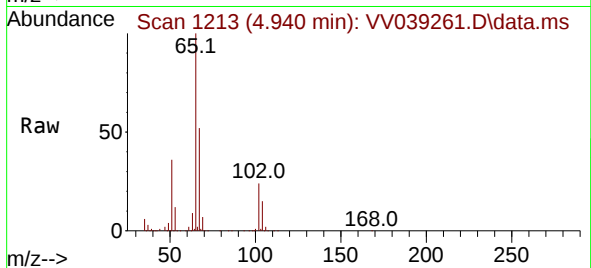
MW3

Tgt Ion: 65 Resp: 419047

Ion Ratio Lower Upper

65 100

67 52.7 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

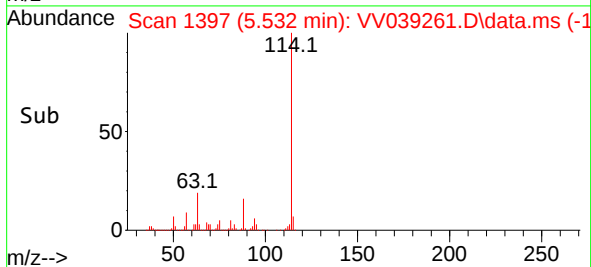
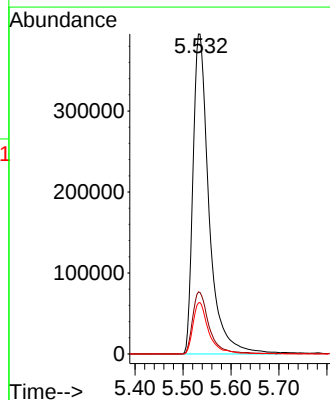
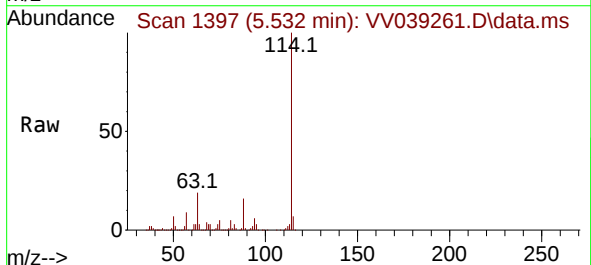
Tgt Ion: 114 Resp: 916787

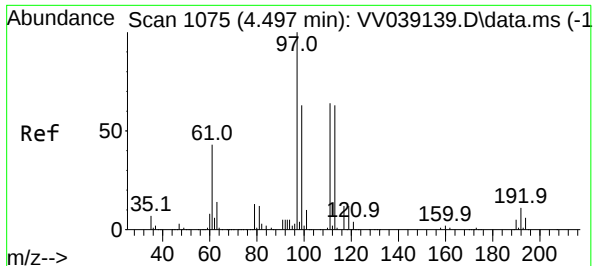
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 16.0 0.0 30.8

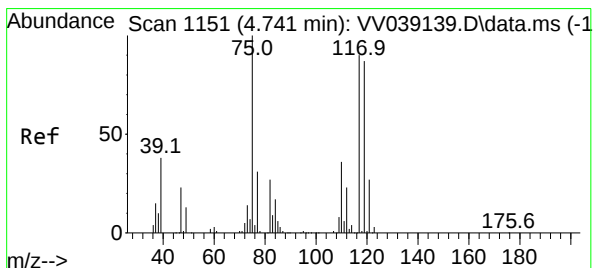
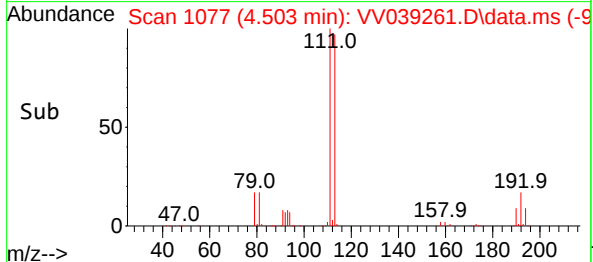
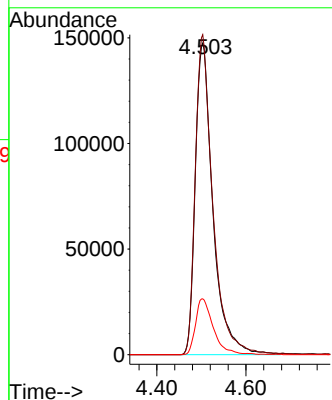
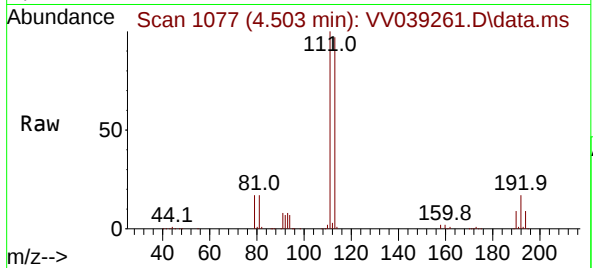




#35
 Dibromofluoromethane
 Concen: 55.174 ug/l
 RT: 4.503 min Scan# 1107
 Delta R.T. 0.006 min
 Lab File: VV039261.D
 Acq: 03 Oct 2025 19:34

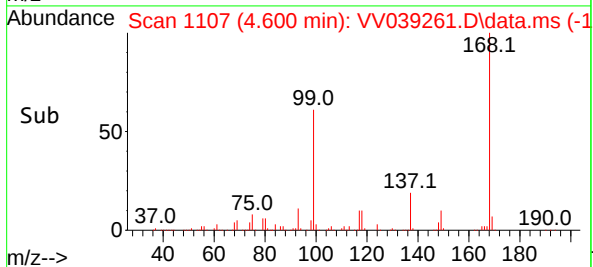
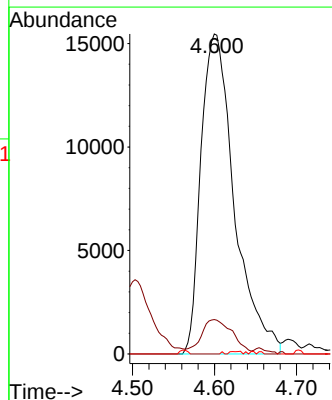
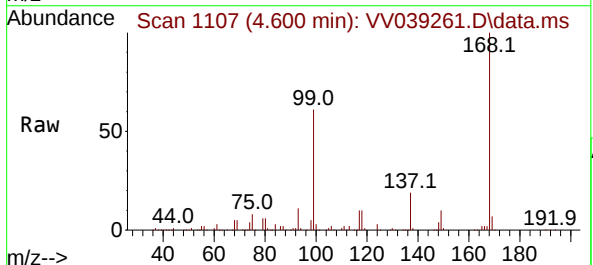
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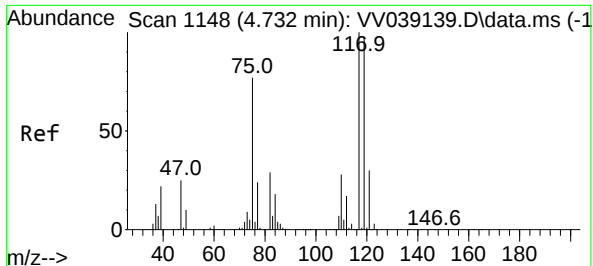
Tgt Ion:113 Resp: 406648
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 17.9 13.8 20.8



#36
 1,1-Dichloropropene
 Concen: 3.930 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039261.D
 Acq: 03 Oct 2025 19:34

Tgt Ion: 75 Resp: 43796
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.1#
 77 0.1 24.8 37.2#

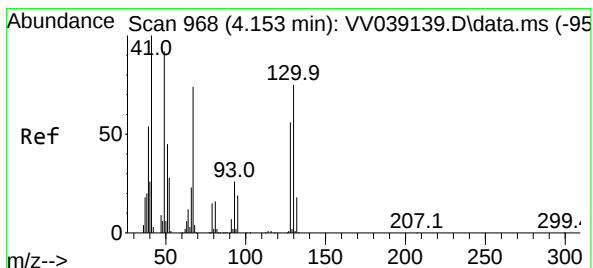
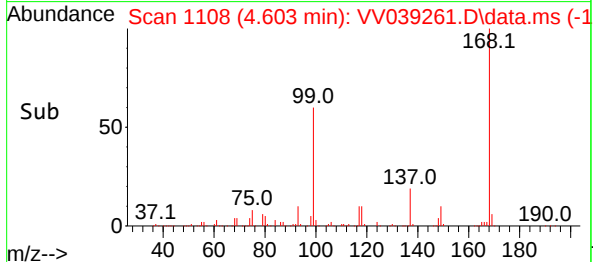
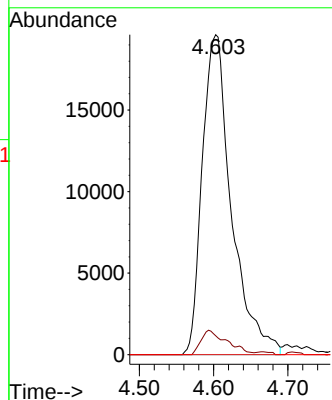
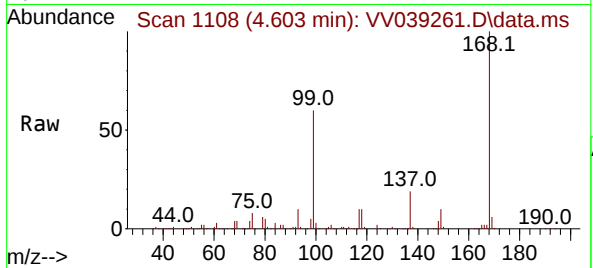




#38
Carbon Tetrachloride
Concen: 3.932 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

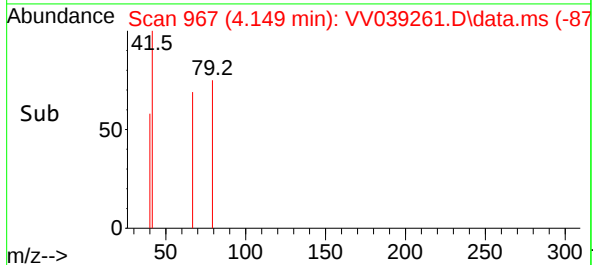
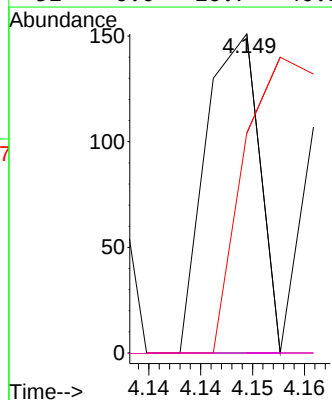
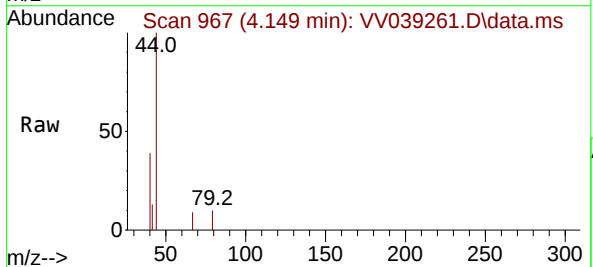
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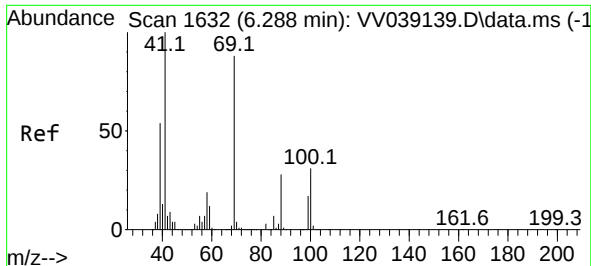
Tgt Ion:117 Resp: 53546
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.919 ug/l
RT: 4.149 min Scan# 967
Delta R.T. -0.004 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 41 Resp: 54
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 135.2 67.9 101.9#
52 0.0 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.675 ug/l

RT: 6.291 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

Instrument :

MSVOA_V

ClientSampleId :

MW3

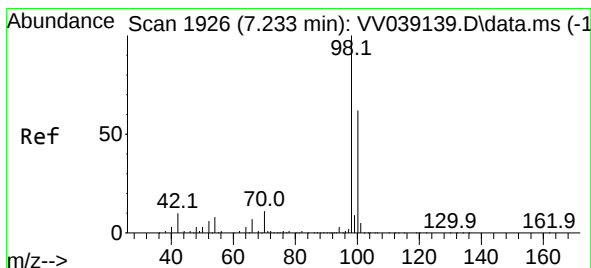
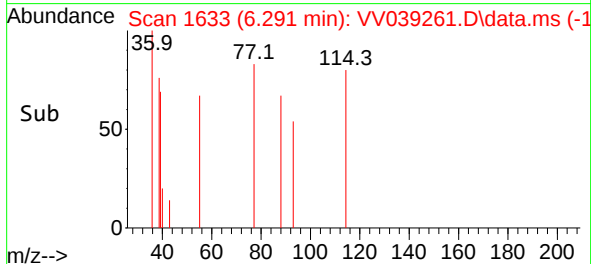
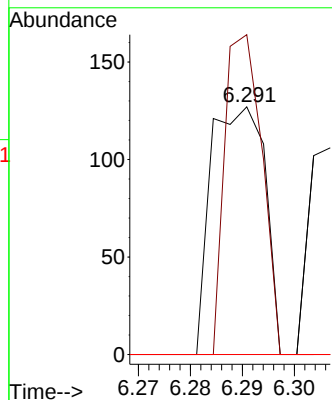
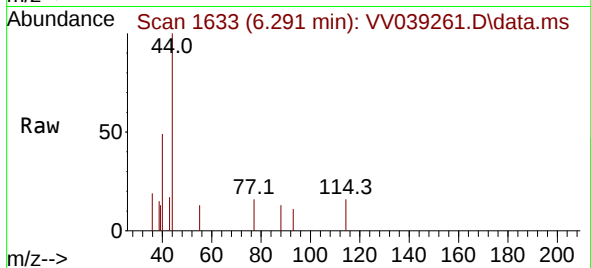
Tgt Ion: 88 Resp: 91

Ion Ratio Lower Upper

88 100

43 89.0 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 45.488 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039261.D

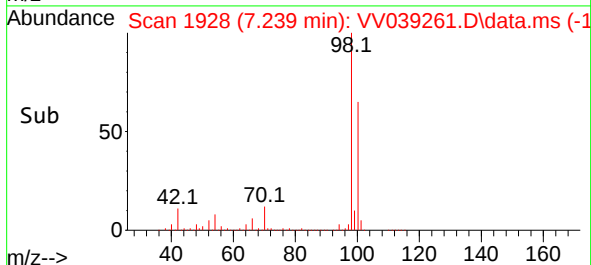
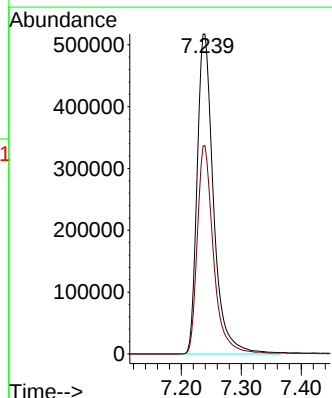
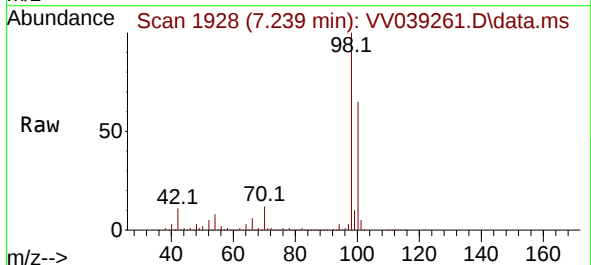
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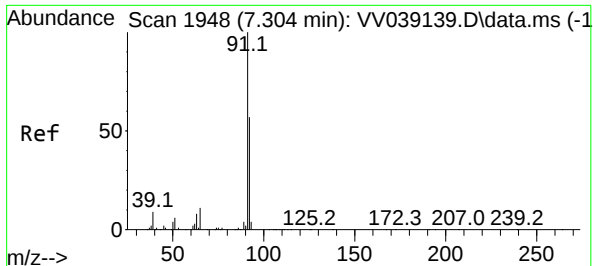
Tgt Ion: 98 Resp: 984663

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2





#52

Toluene

Concen: 0.545 ug/l

RT: 7.326 min Scan# 1948

Delta R.T. 0.022 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

Instrument :

MSVOA_V

ClientSampleId :

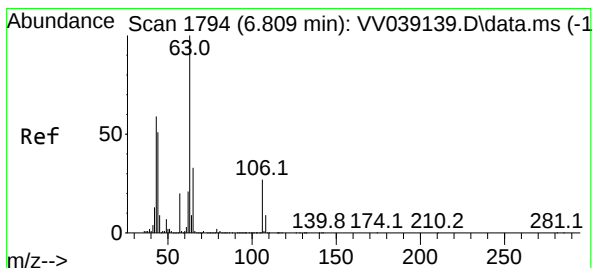
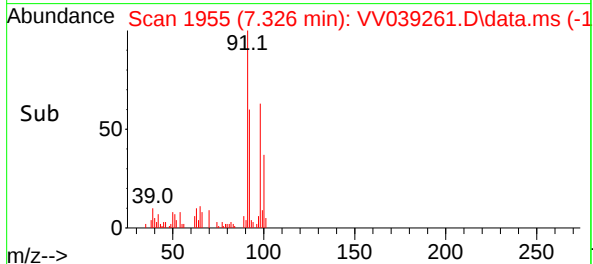
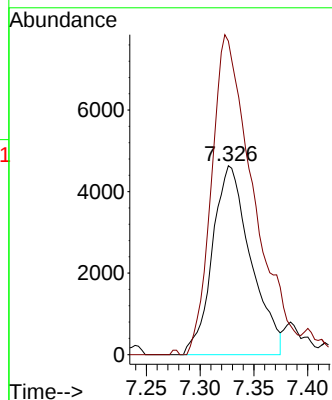
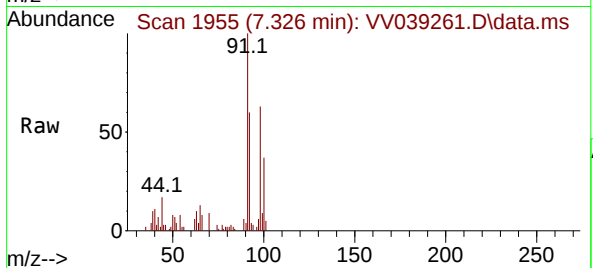
MW3

Tgt Ion: 92 Resp: 11474

Ion Ratio Lower Upper

92 100

91 184.6 139.2 208.8



#58

2-Chloroethyl Vinyl ether

Concen: 9.629 ug/l

RT: 6.821 min Scan# 1798

Delta R.T. 0.012 min

Lab File: VV039261.D

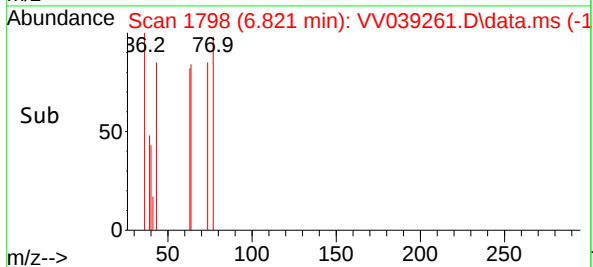
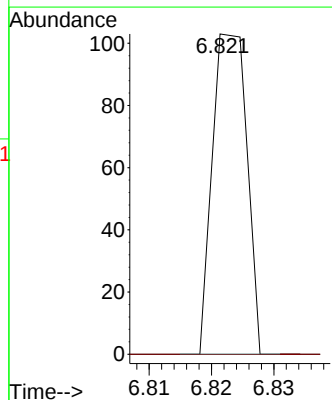
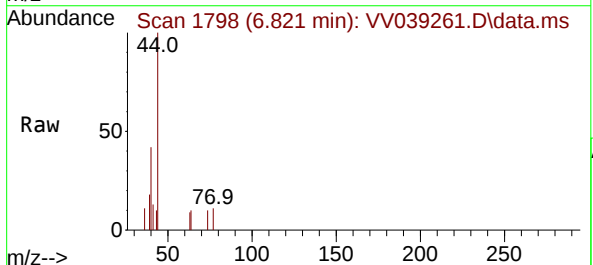
Acq: 03 Oct 2025 19:34

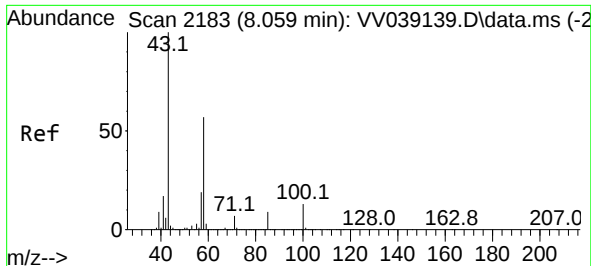
Tgt Ion: 63 Resp: 40

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

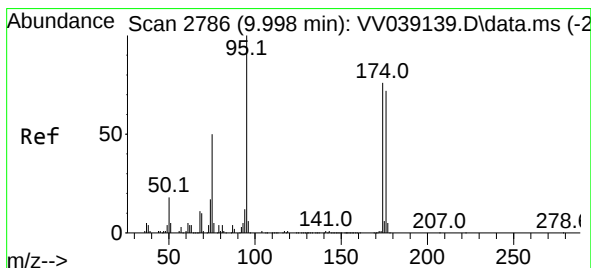
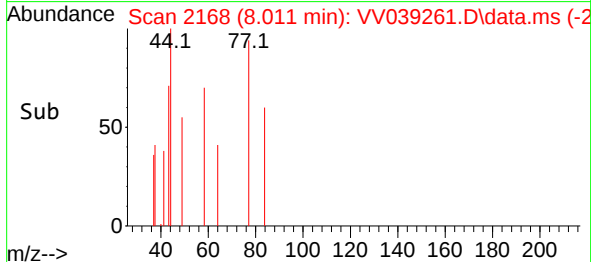
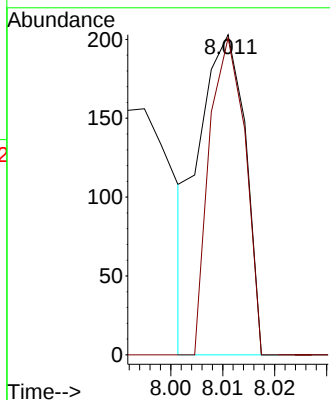
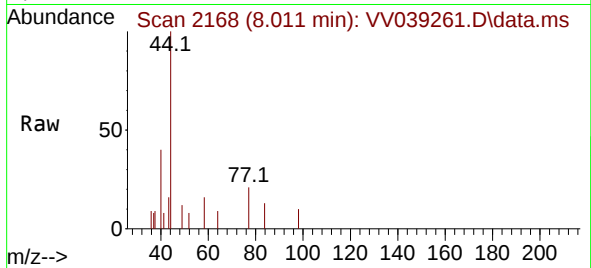




#59
2-Hexanone
Concen: 2.338 ug/l
RT: 8.011 min Scan# 2183
Delta R.T. -0.048 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

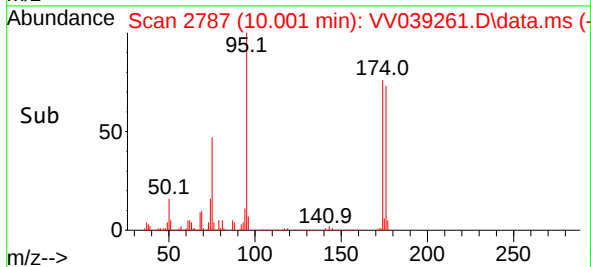
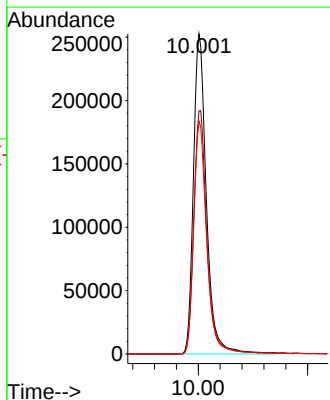
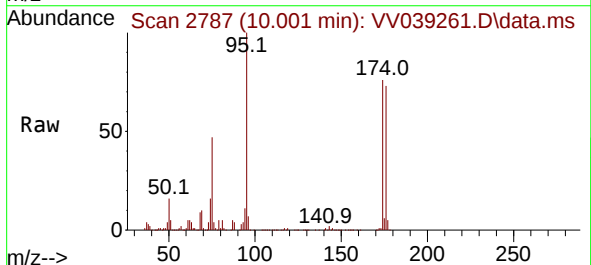
Instrument :
MSVOA_V
ClientSampleId :
MW3

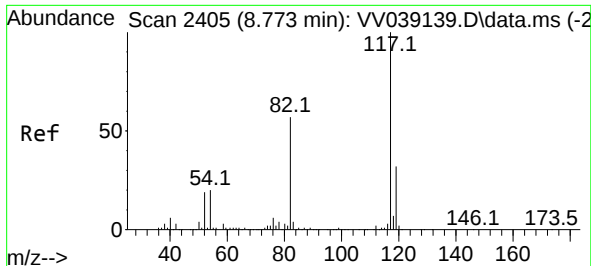
Tgt Ion: 43 Resp: 125
Ion Ratio Lower Upper
43 100
58 76.8 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 46.602 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 95 Resp: 415281
Ion Ratio Lower Upper
95 100
174 77.0 0.0 150.4
176 72.5 0.0 144.2

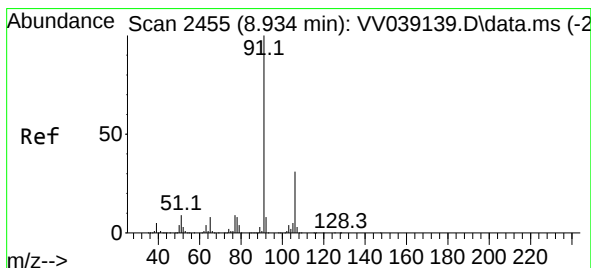
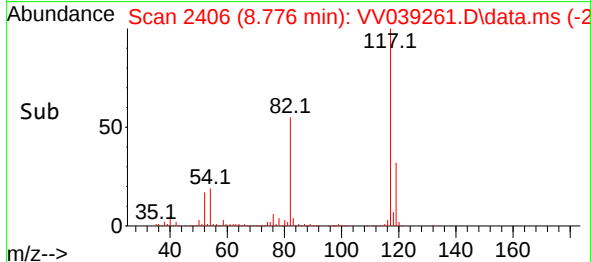
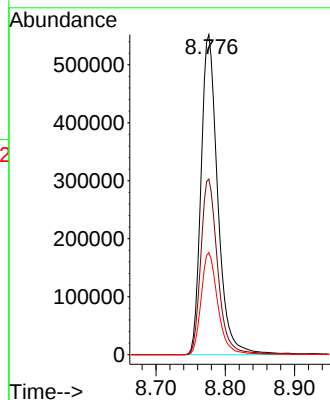
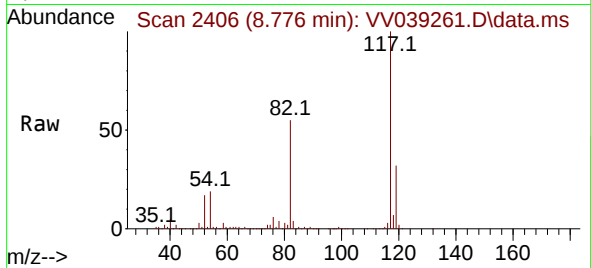




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

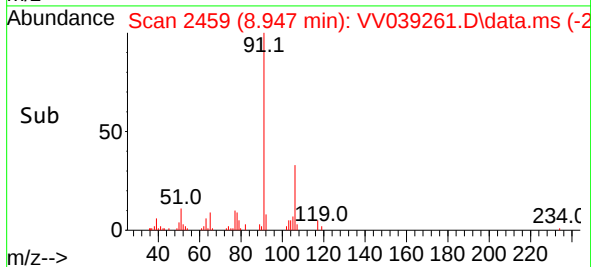
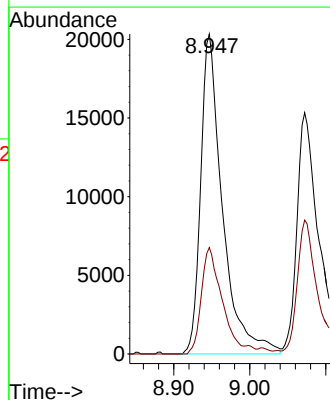
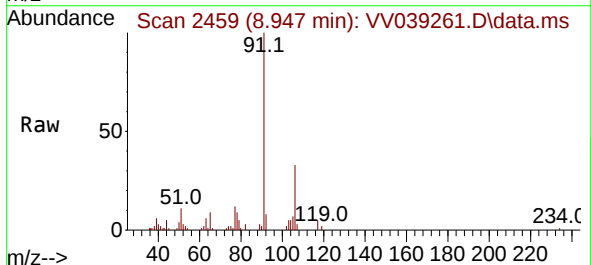
Instrument :
MSVOA_V
ClientSampleId :
MW3

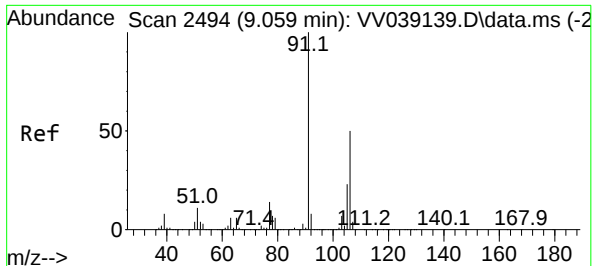
Tgt Ion:117 Resp: 926199
Ion Ratio Lower Upper
117 100
82 54.9 45.4 68.2
119 31.9 25.6 38.4



#67
Ethyl Benzene
Concen: 1.035 ug/l
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 91 Resp: 40417
Ion Ratio Lower Upper
91 100
106 33.3 24.6 37.0

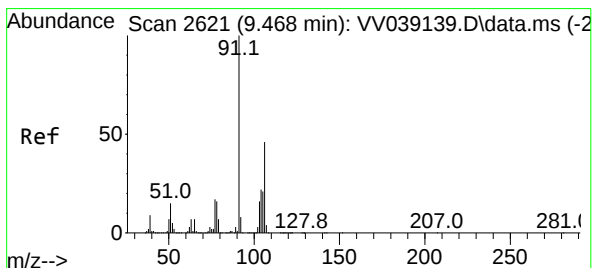
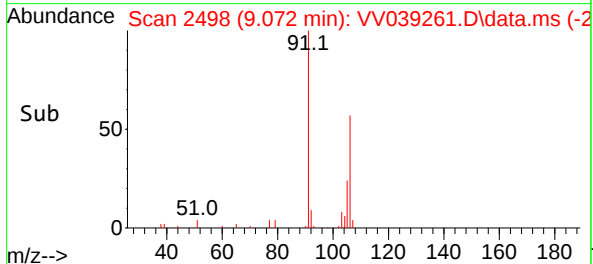
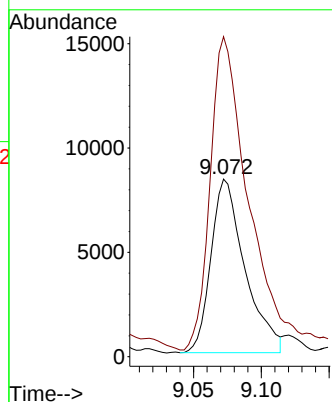
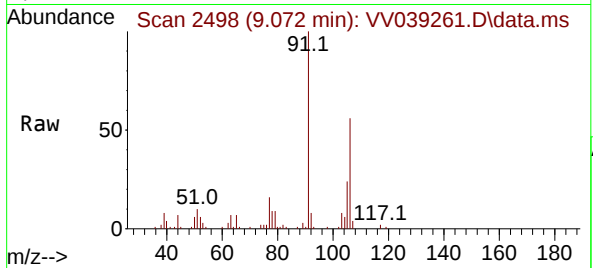




#68
m/p-Xylenes
Concen: 0.963 ug/l
RT: 9.072 min Scan# 2498
Delta R.T. 0.013 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

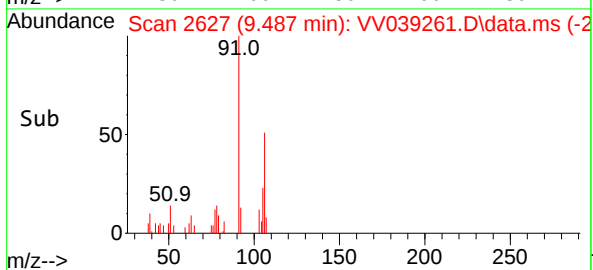
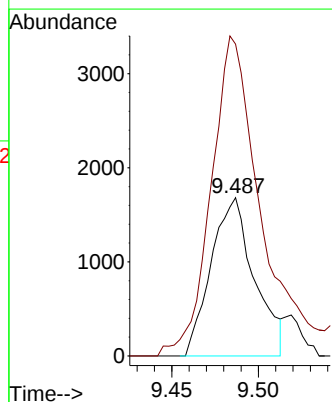
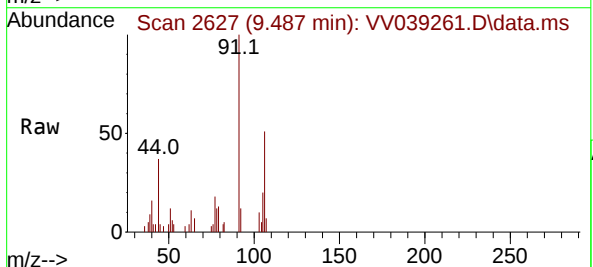
Instrument :
MSVOA_V
ClientSampleId :
MW3

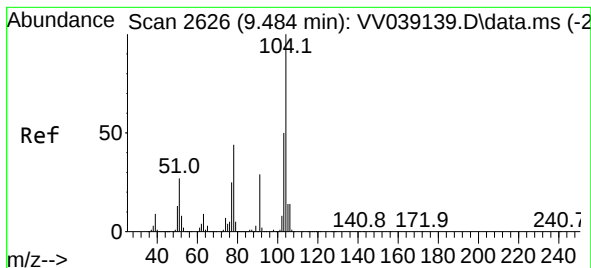
Tgt Ion:106 Resp: 14508
Ion Ratio Lower Upper
106 100
91 213.6 162.5 243.7



#69
o-Xylene
Concen: 0.219 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.019 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion:106 Resp: 2922
Ion Ratio Lower Upper
106 100
91 232.6 109.1 327.3





#70

Styrene

Concen: 1.566 ug/l

RT: 9.484 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

Instrument :

MSVOA_V

ClientSampleId :

MW3

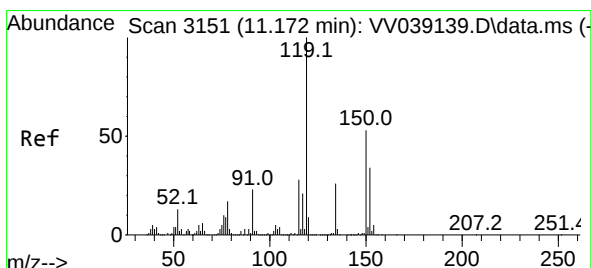
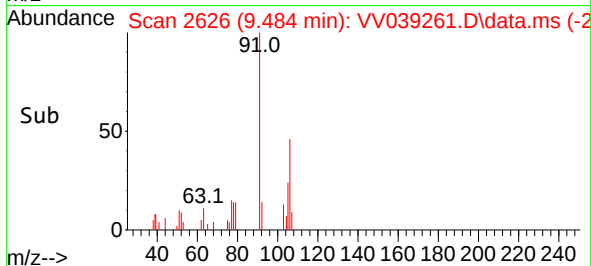
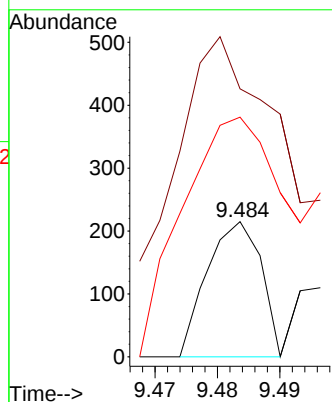
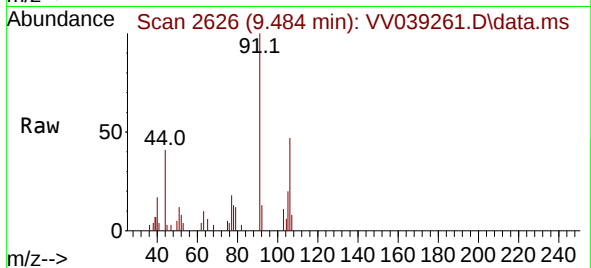
Tgt Ion:104 Resp: 129

Ion Ratio Lower Upper

104 100

78 541.1 39.8 59.6#

103 335.7 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV039261.D

Acq: 03 Oct 2025 19:34

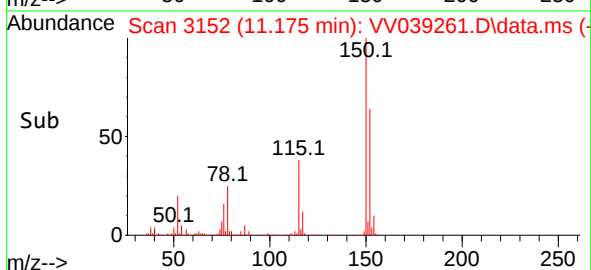
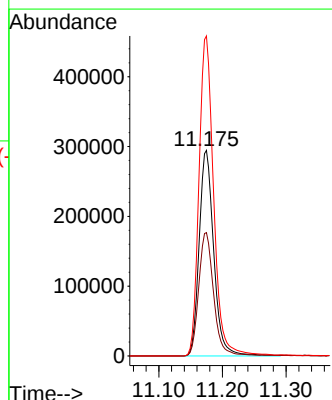
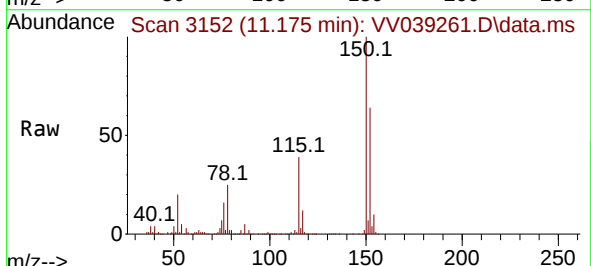
Tgt Ion:152 Resp: 470598

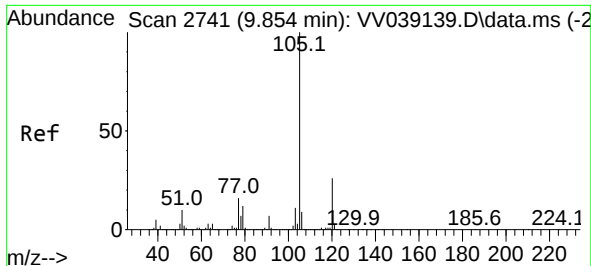
Ion Ratio Lower Upper

152 100

115 61.4 44.8 134.4

150 156.2 0.0 353.8

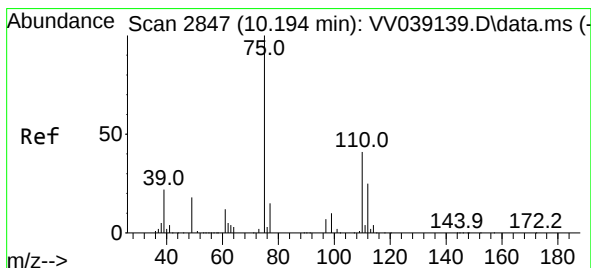
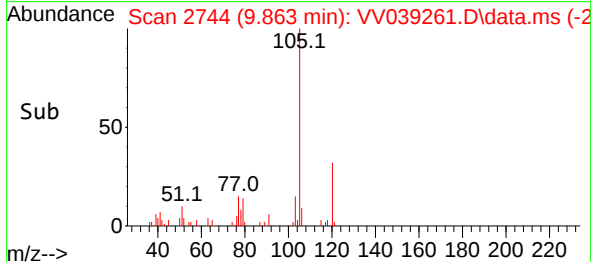
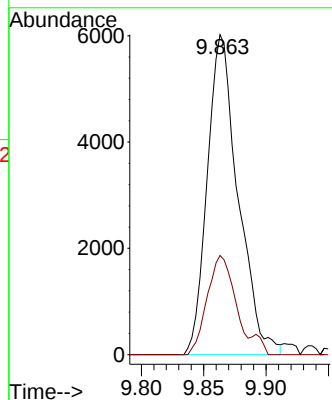
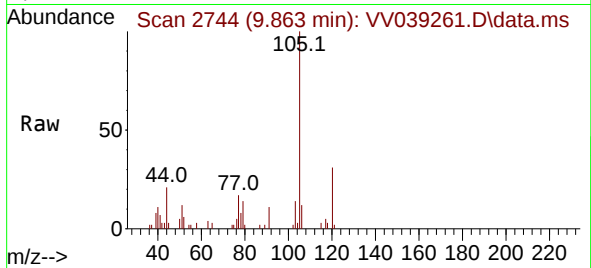




#73
Isopropylbenzene
Concen: 0.303 ug/l
RT: 9.863 min Scan# 21
Delta R.T. 0.009 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

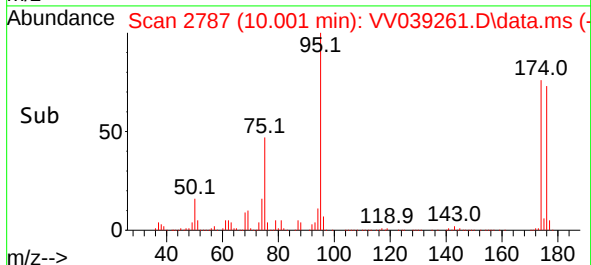
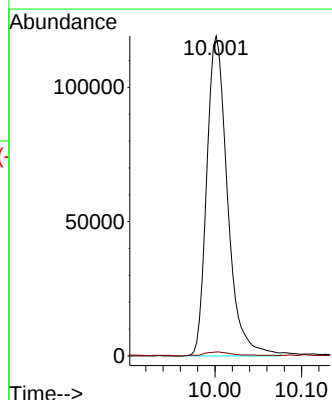
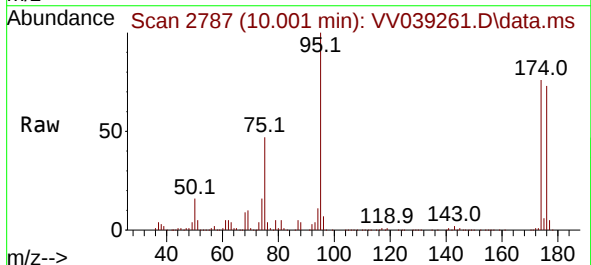
Instrument :
MSVOA_V
ClientSampleId :
MW3

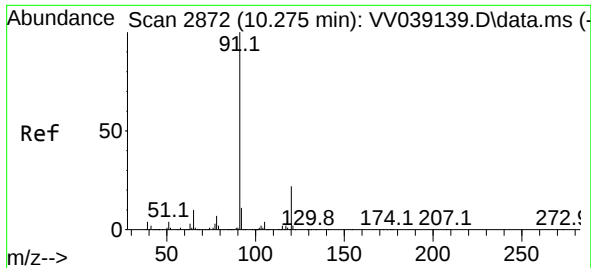
Tgt Ion:105 Resp: 10356
Ion Ratio Lower Upper
105 100
120 29.9 13.1 39.1



#76
1,2,3-Trichloropropane
Concen: 18.543 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 75 Resp: 198688
Ion Ratio Lower Upper
75 100
77 1.6 11.3 33.8#

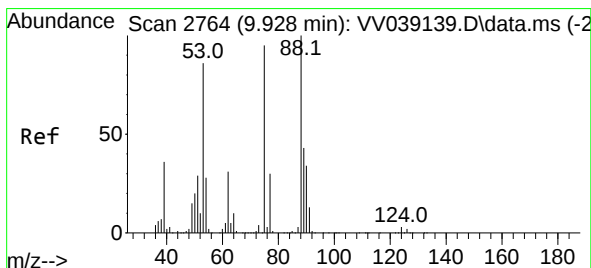
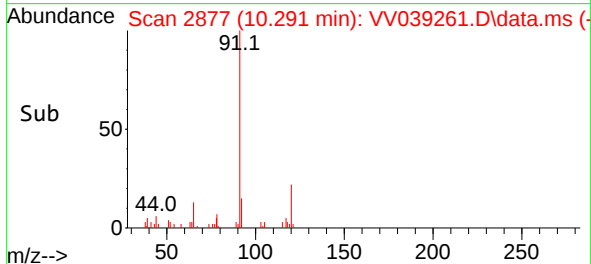
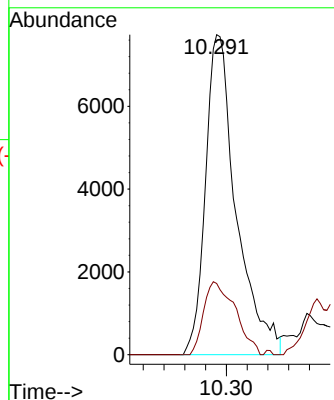
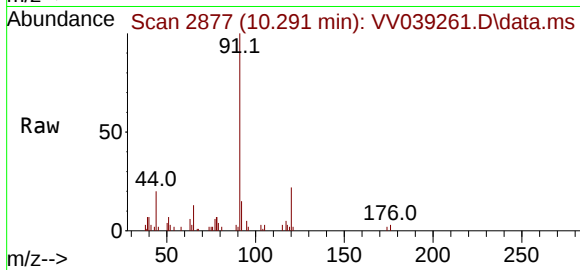




#78
n-propylbenzene
Concen: 0.381 ug/l
RT: 10.291 min Scan# 21
Delta R.T. 0.016 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

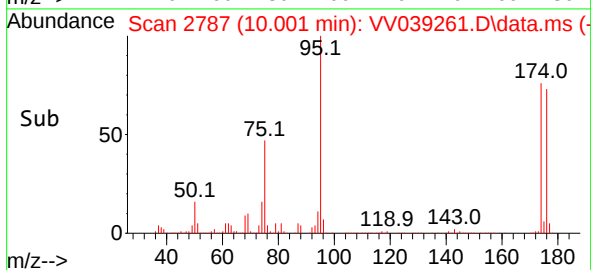
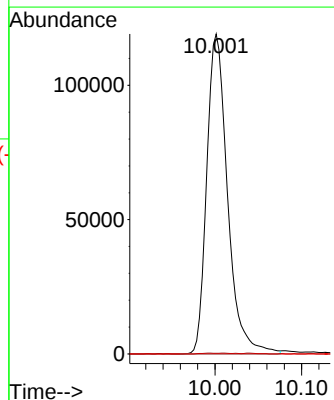
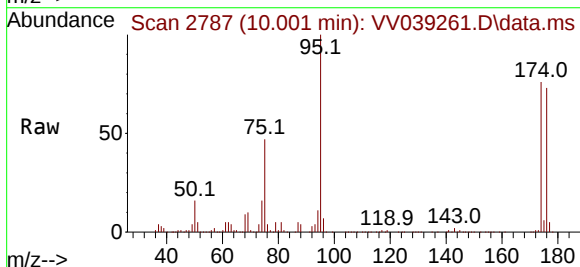
Instrument :
MSVOA_V
ClientSampleId :
MW3

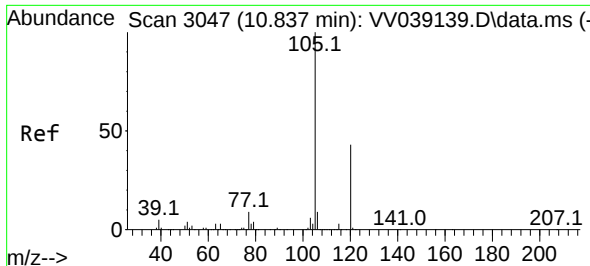
Tgt Ion: 91 Resp: 15828
Ion Ratio Lower Upper
91 100
120 23.5 11.1 33.3



#81
trans-1,4-Dichloro-2-butene
Concen: 44.517 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion: 75 Resp: 198688
Ion Ratio Lower Upper
75 100
53 0.1 72.5 108.7#
89 0.0 37.2 55.8#

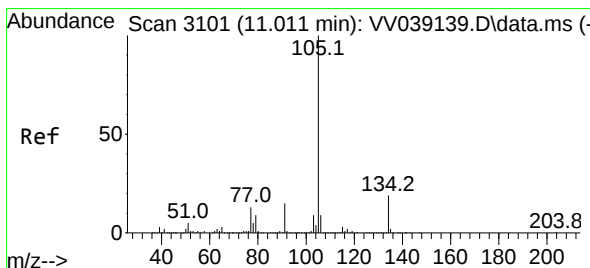
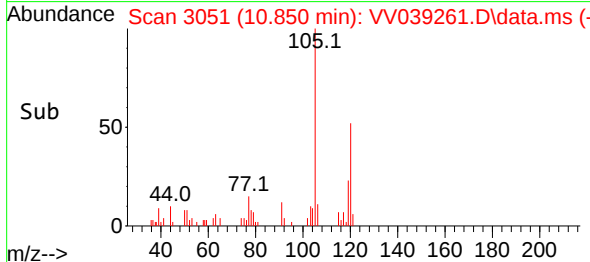
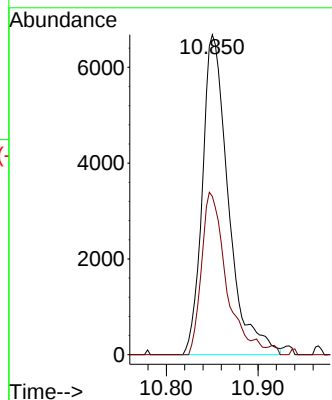
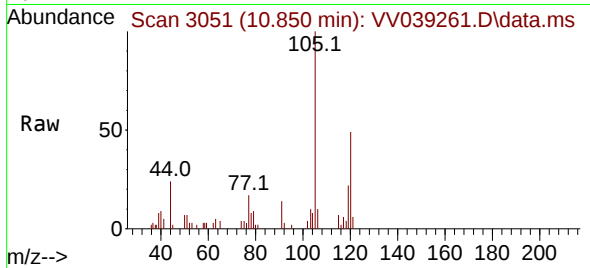




#84
1,2,4-Trimethylbenzene
Concen: 0.479 ug/l
RT: 10.850 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

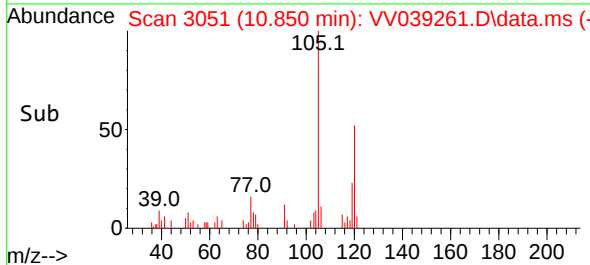
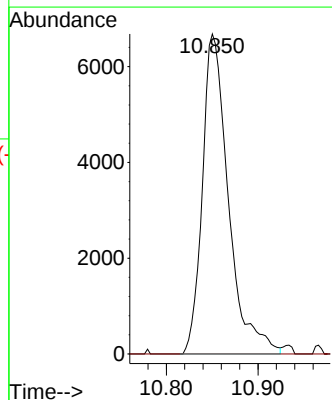
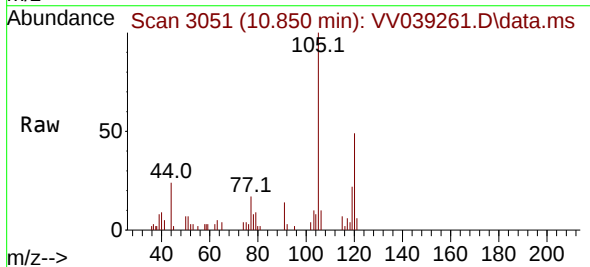
Instrument :
MSVOA_V
ClientSampleId :
MW3

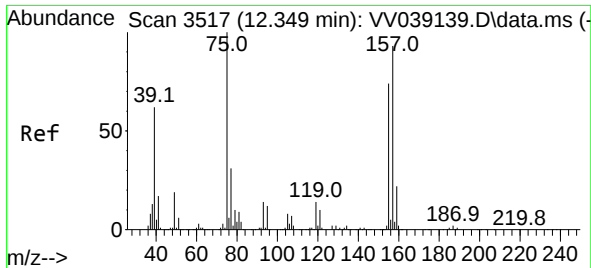
Tgt Ion:105 Resp: 13184
Ion Ratio Lower Upper
105 100
120 48.2 22.4 67.2



#85
sec-Butylbenzene
Concen: 0.351 ug/l
RT: 10.850 min Scan# 3051
Delta R.T. -0.161 min
Lab File: VV039261.D
Acq: 03 Oct 2025 19:34

Tgt Ion:105 Resp: 13184
Ion Ratio Lower Upper
105 100
134 0.0 9.6 28.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.345 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: VV039261.D
 Acq: 03 Oct 2025 19:34

Instrument :
 MSVOA_V
 ClientSampleId :
 MW3

Tgt Ion: 75 Resp: 101
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

