

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086972.D
 Acq On : 12 Jun 2025 13:15
 Operator : JC\MD
 Sample : Q2249-01 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-06-6.5-060525

Quant Time: Jun 13 01:26:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

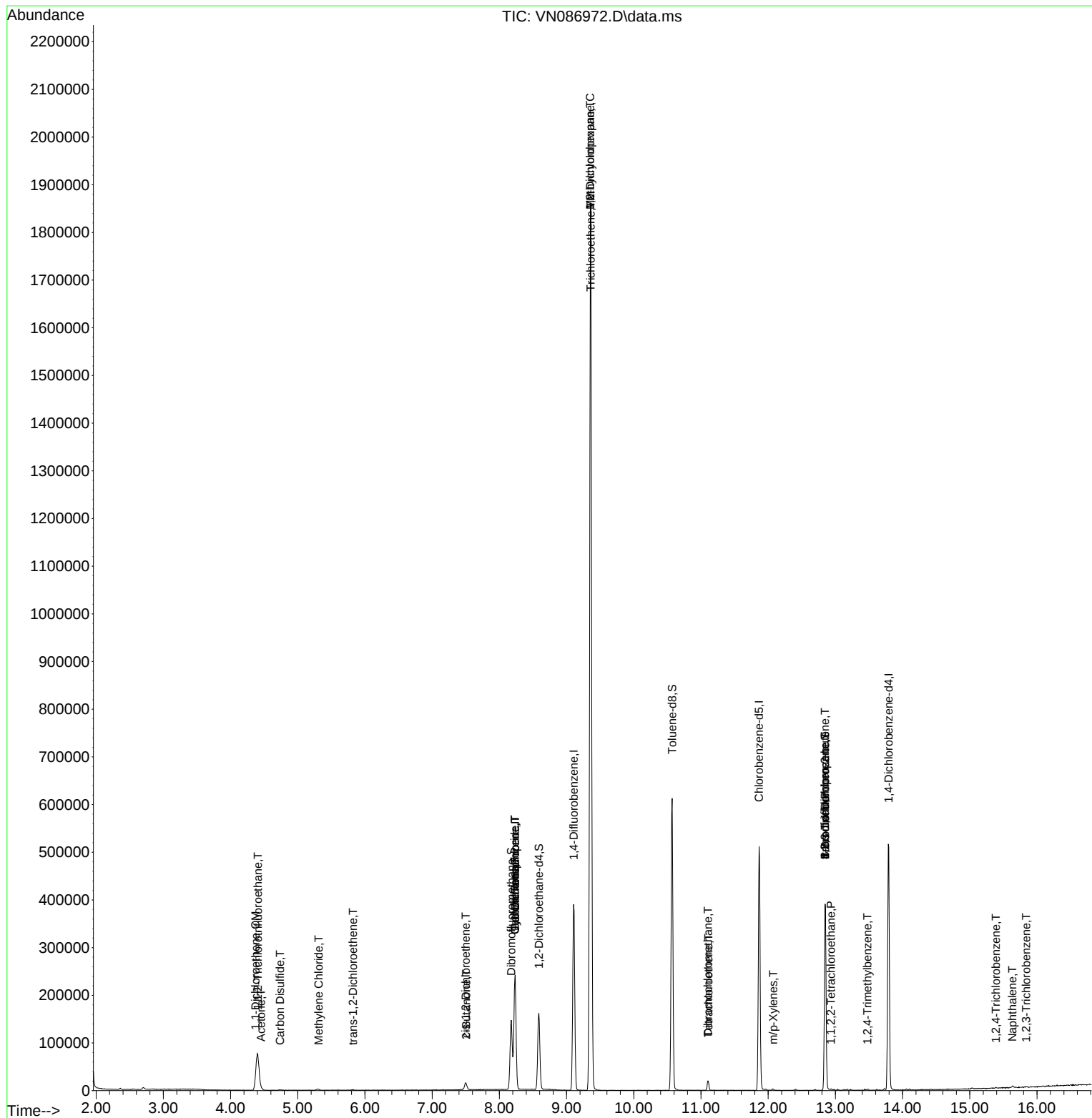
Internal Standards						
1) Pentafluorobenzene	8.236	168	190645	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	365841	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	324312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	154633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	130111	50.973	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.940%	
35) Dibromofluoromethane	8.177	113	109990	50.732	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.460%	
50) Toluene-d8	10.571	98	444898	51.836	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.680%	
62) 4-Bromofluorobenzene	12.847	95	155483	48.760	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 97.520%	
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.406	101	60827	29.266	ug/l	99
12) 1,1-Dichloroethene	4.371	96	951	0.448	ug/l #	52
16) Acetone	4.453	43	5173	3.822	ug/l	88
17) Carbon Disulfide	4.736	76	1434	0.244	ug/l #	75
20) Methylene Chloride	5.312	84	1847	0.729	ug/l #	85
21) trans-1,2-Dichloroethene	5.824	96	651	0.276	ug/l #	53
25) 2-Butanone	7.506	43	880	0.400	ug/l #	46
27) cis-1,2-Dichloroethene	7.500	96	10861	3.847	ug/l	76
31) Cyclohexane	8.230	56	3515	0.849	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	15051	4.659	ug/l #	48
38) Carbon Tetrachloride	8.230	117	18365	5.790	ug/l #	18
39) Methylcyclohexane	9.353	83	8084	1.826	ug/l #	1
44) Trichloroethene	9.359	130	715258	285.535	ug/l	100
45) 1,2-Dichloropropane	9.353	63	1705	0.663	ug/l #	1
60) Dibromochloromethane	11.106	129	4944	1.910	ug/l #	11
64) Tetrachloroethene	11.112	164	5215	2.541	ug/l	96
68) m/p-Xylenes	12.076	106	1221	0.259	ug/l	89
71) Bromoform	12.847	173	698	0.410	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.935	83	1527	0.400	ug/l #	89
76) 1,2,3-Trichloropropane	12.847	75	73044	19.872	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73044	45.745	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	1882	0.202	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	681	0.218	ug/l #	80
95) Naphthalene	15.635	128	4212	0.363	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.841	180	772	0.249	ug/l #	75

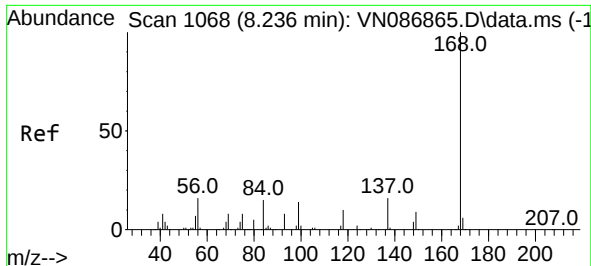
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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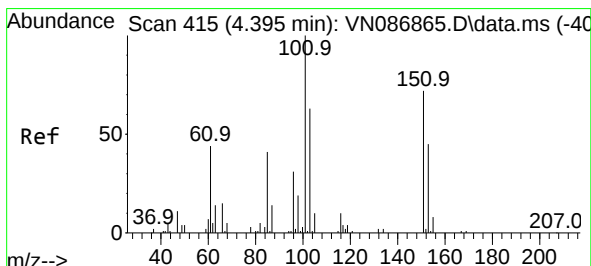
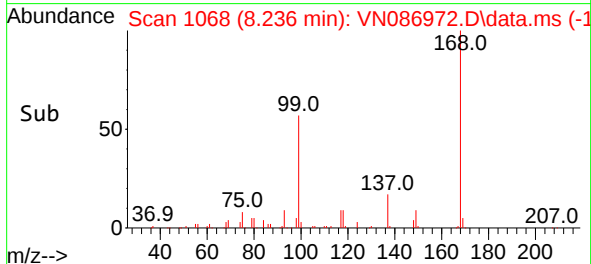
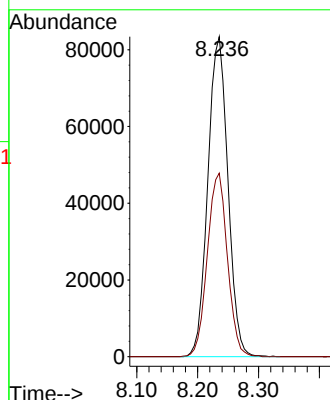
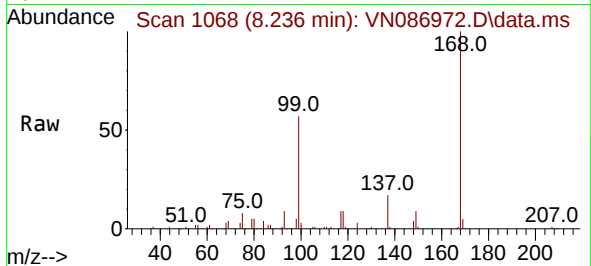




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

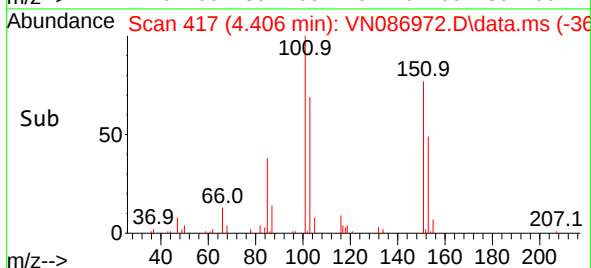
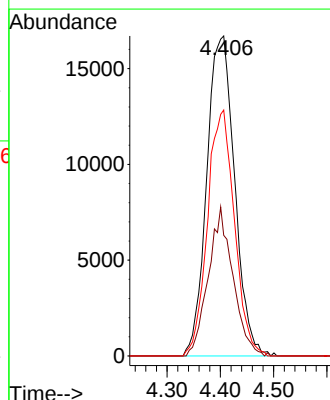
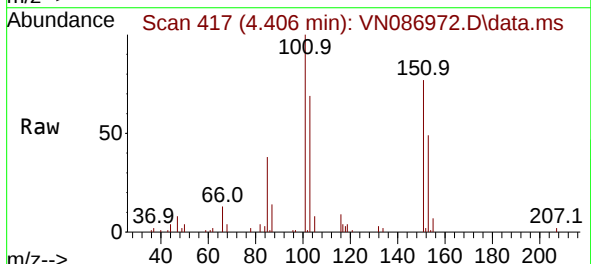
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

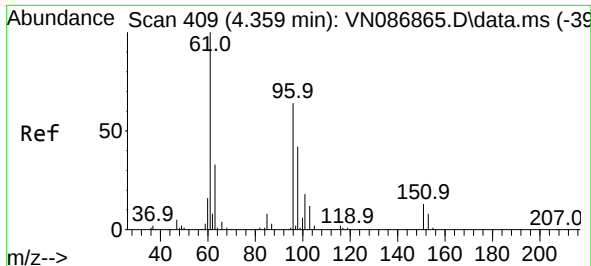
Tgt Ion:168 Resp: 190645
Ion Ratio Lower Upper
168 100
99 57.4 49.1 73.7



#9
1,1,2-Trichlorotrifluoroethane
Concen: 29.266 ug/l
RT: 4.406 min Scan# 417
Delta R.T. 0.012 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion:101 Resp: 60827
Ion Ratio Lower Upper
101 100
85 41.2 33.8 50.8
151 74.2 58.7 88.1

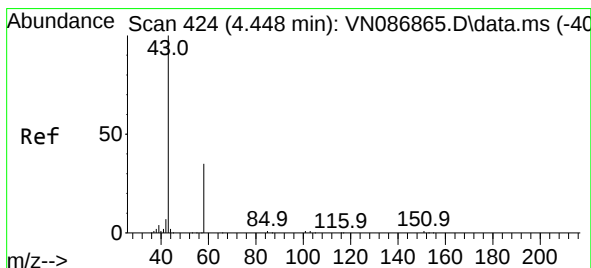
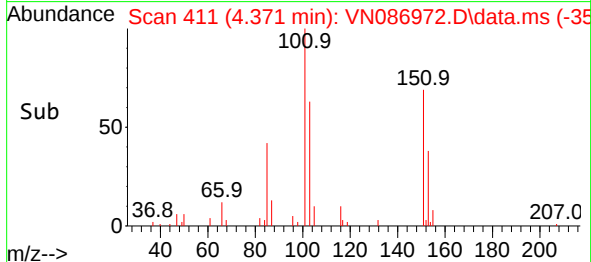
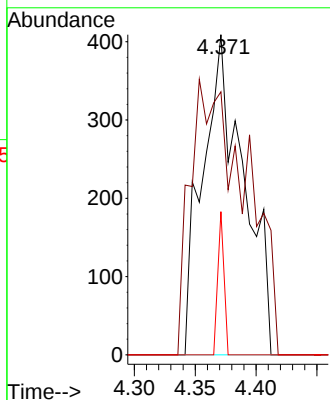
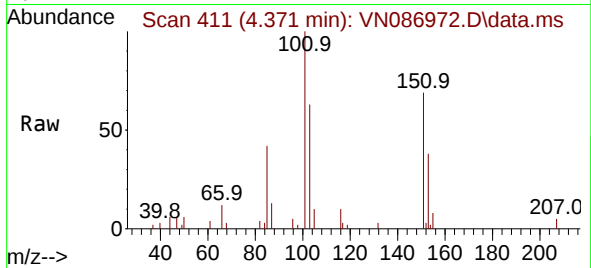




#12
 1,1-Dichloroethene
 Concen: 0.448 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.012 min
 Lab File: VN086972.D
 Acq: 12 Jun 2025 13:15

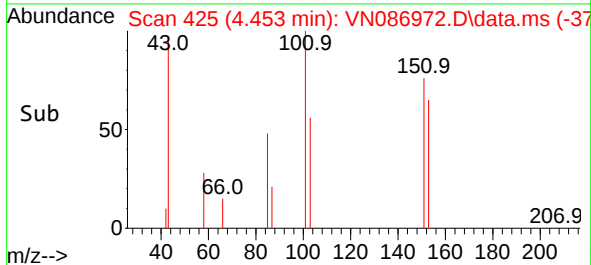
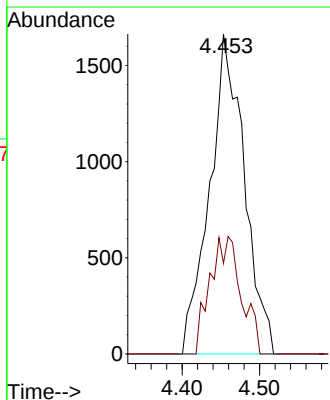
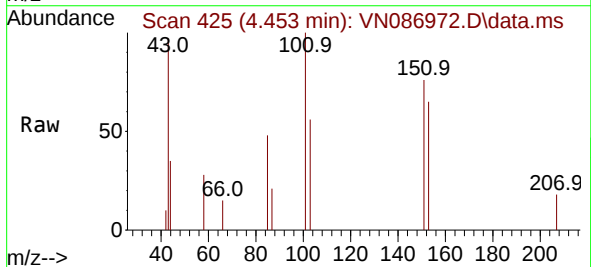
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-06-6.5-060525

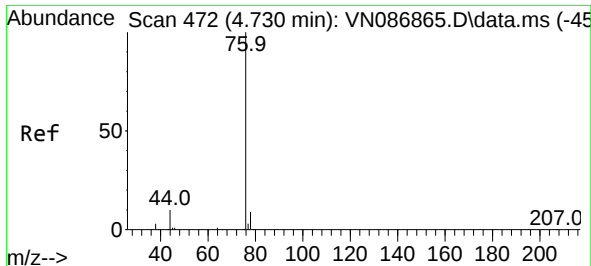
Tgt Ion: 96 Resp: 951
 Ion Ratio Lower Upper
 96 100
 61 82.2 125.8 188.6#
 98 44.7 52.5 78.7#



#16
 Acetone
 Concen: 3.822 ug/l
 RT: 4.453 min Scan# 425
 Delta R.T. 0.006 min
 Lab File: VN086972.D
 Acq: 12 Jun 2025 13:15

Tgt Ion: 43 Resp: 5173
 Ion Ratio Lower Upper
 43 100
 58 28.3 28.0 42.0





#17

Carbon Disulfide

Concen: 0.244 ug/l

RT: 4.736 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

Instrument :

MSVOA_N

ClientSampleId :

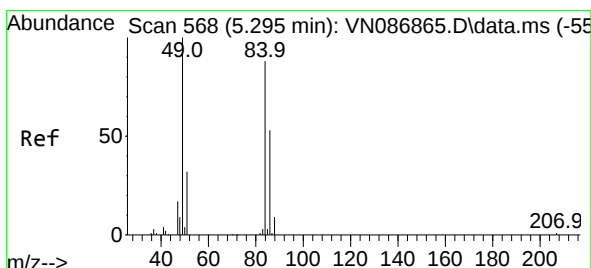
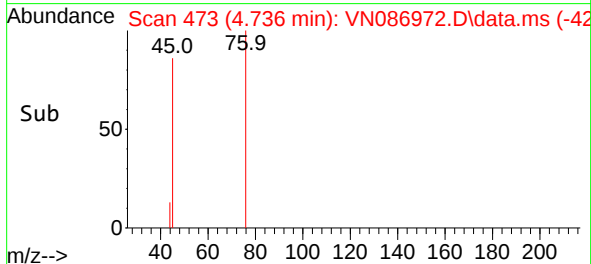
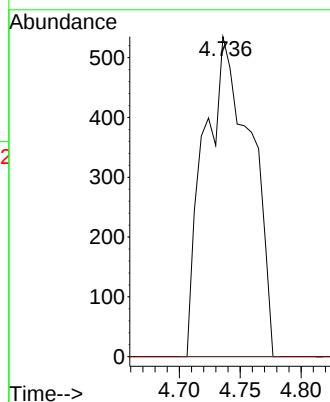
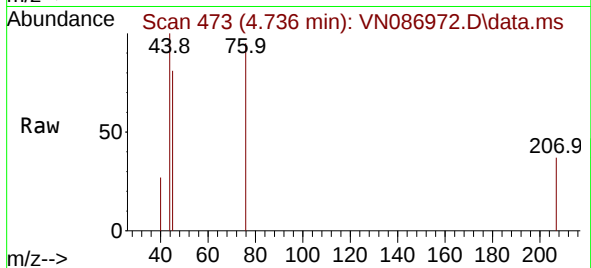
MW-06-6.5-060525

Tgt Ion: 76 Resp: 1434

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#20

Methylene Chloride

Concen: 0.729 ug/l

RT: 5.312 min Scan# 571

Delta R.T. 0.018 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

Tgt Ion: 84 Resp: 1847

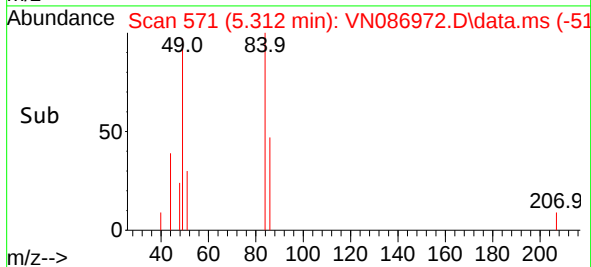
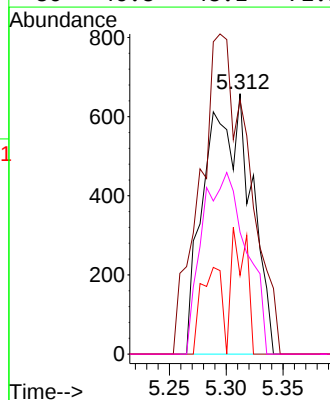
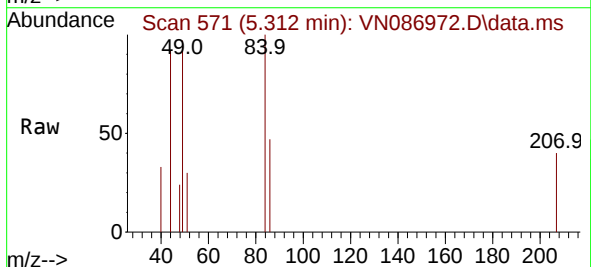
Ion Ratio Lower Upper

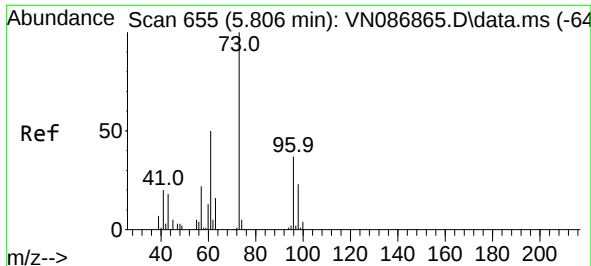
84 100

49 97.4 90.5 135.7

51 30.2 28.5 42.7

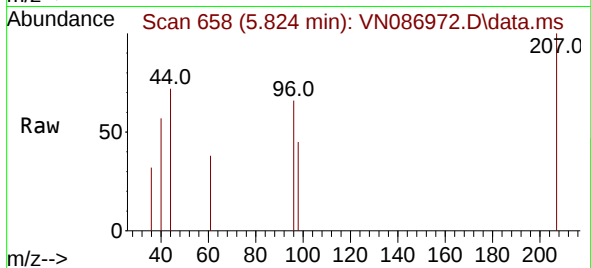
86 46.8 48.1 72.1#



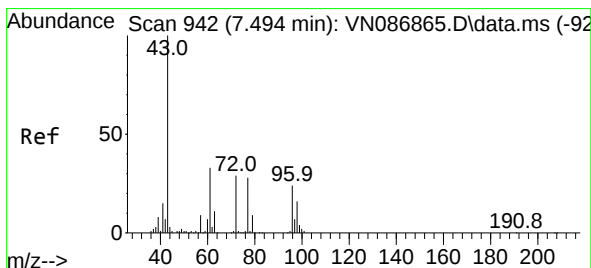
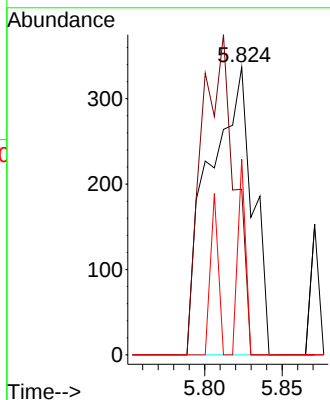
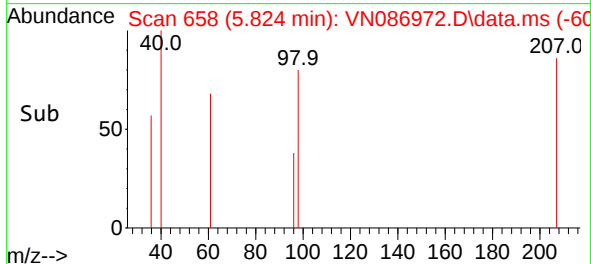


#21
trans-1,2-Dichloroethene
Concen: 0.276 ug/l
RT: 5.824 min Scan# 651
Delta R.T. 0.018 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

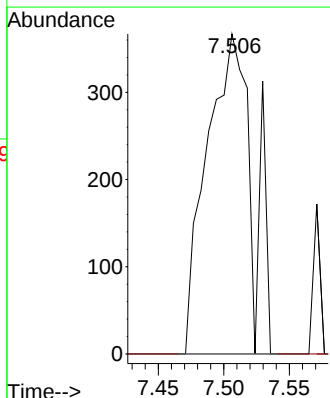
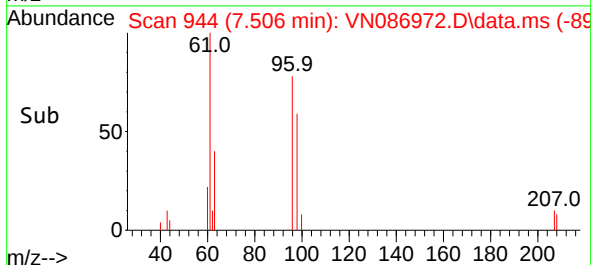
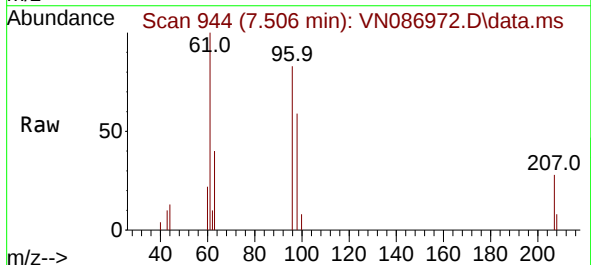


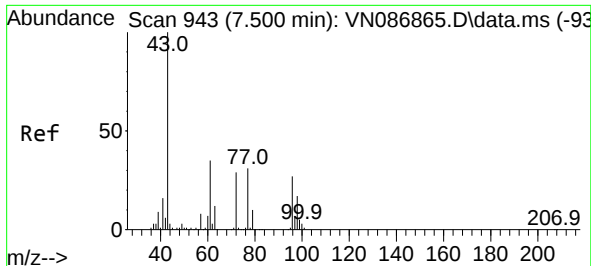
Tgt Ion: 96 Resp: 651
Ion Ratio Lower Upper
96 100
61 57.6 109.2 163.8#
98 68.0 49.8 74.8



#25
2-Butanone
Concen: 0.400 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 43 Resp: 880
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#

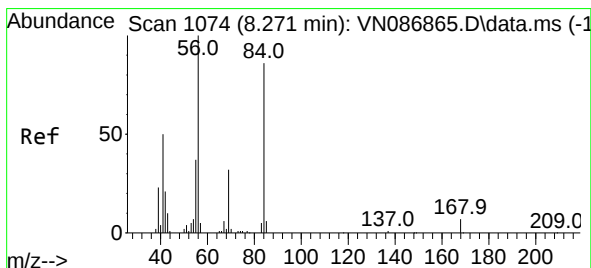
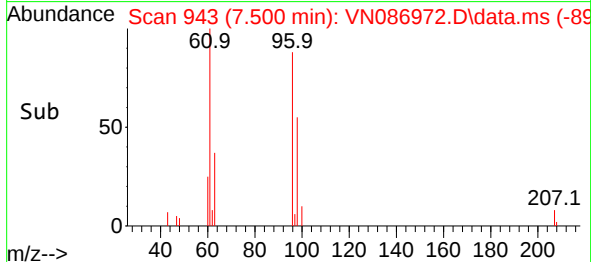
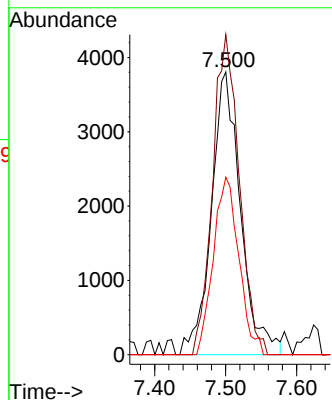
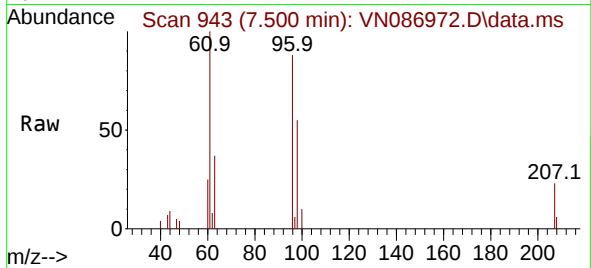




#27
 cis-1,2-Dichloroethene
 Concen: 3.847 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: VN086972.D
 Acq: 12 Jun 2025 13:15

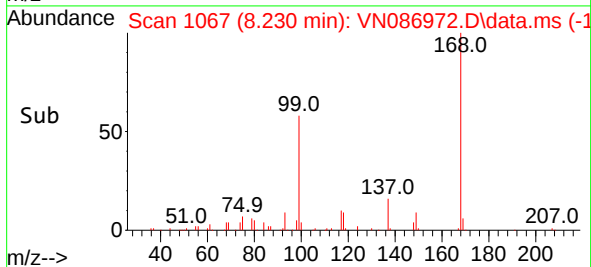
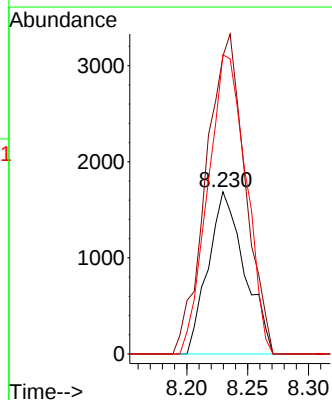
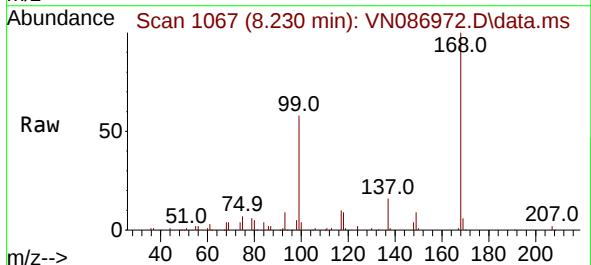
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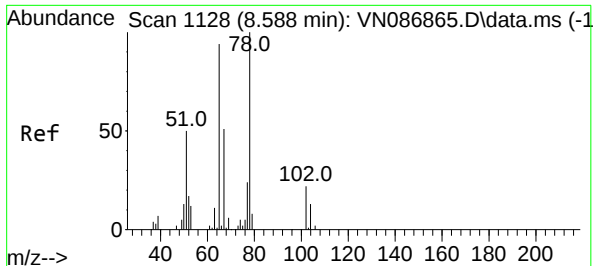
Tgt Ion:	96	Resp:	10861
Ion	Ratio	Lower	Upper
96	100		
61	103.4	0.0	278.0
98	54.9	0.0	128.2



#31
 Cyclohexane
 Concen: 0.849 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.041 min
 Lab File: VN086972.D
 Acq: 12 Jun 2025 13:15

Tgt Ion:	56	Resp:	3515
Ion	Ratio	Lower	Upper
56	100		
69	183.5	25.4	38.0#
84	184.4	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.973 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

Instrument :

MSVOA_N

ClientSampleId :

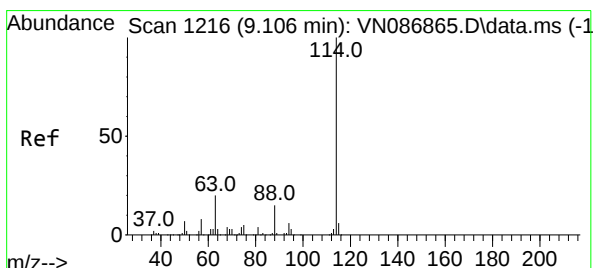
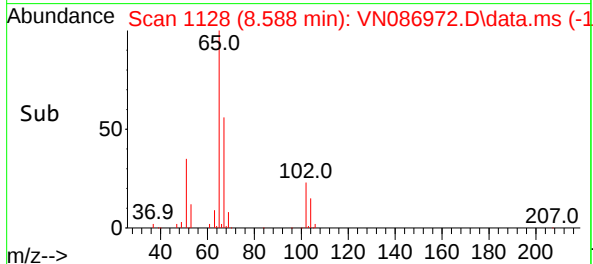
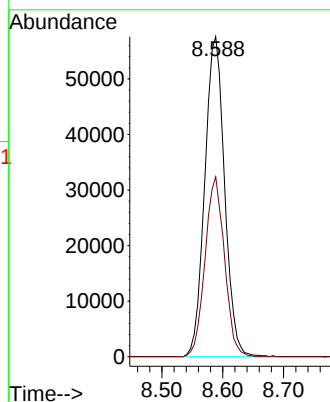
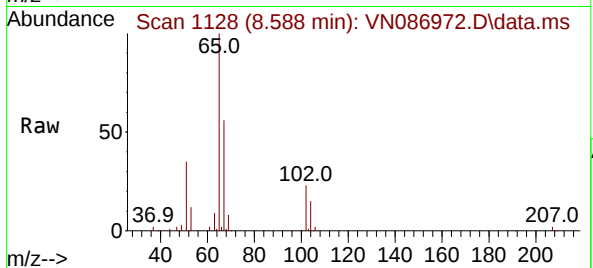
MW-06-6.5-060525

Tgt Ion: 65 Resp: 130111

Ion Ratio Lower Upper

65 100

67 54.9 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

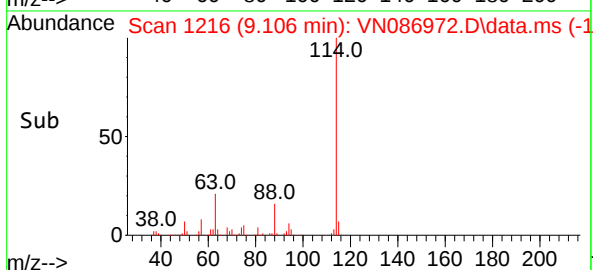
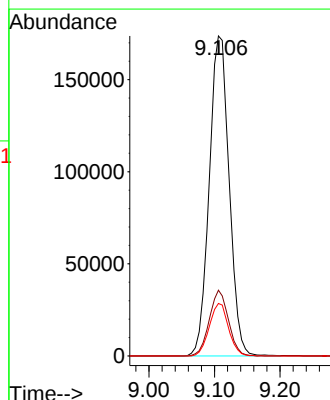
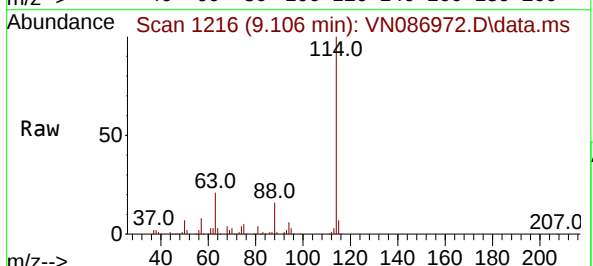
Tgt Ion: 114 Resp: 365841

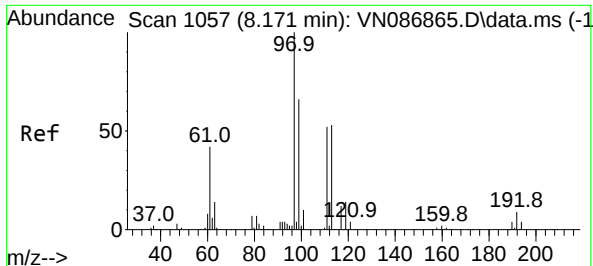
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.732 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

Instrument :

MSVOA_N

ClientSampleId :

MW-06-6.5-060525

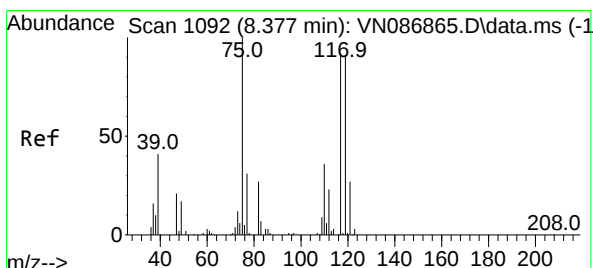
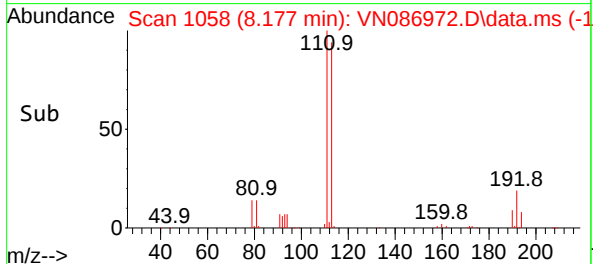
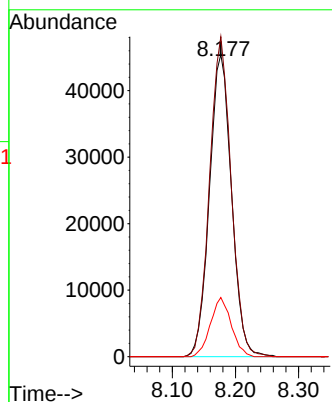
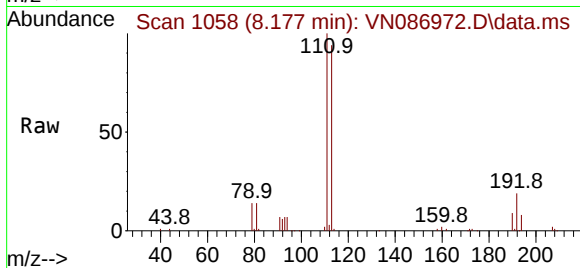
Tgt Ion:113 Resp: 109990

Ion Ratio Lower Upper

113 100

111 103.6 84.2 126.2

192 18.5 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.659 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN086972.D

Acq: 12 Jun 2025 13:15

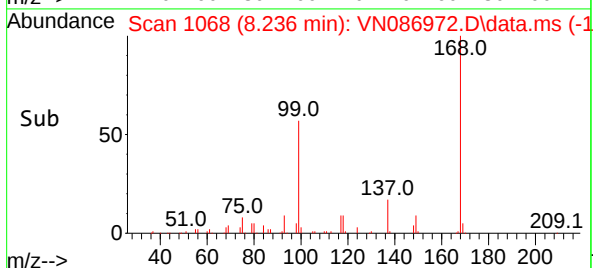
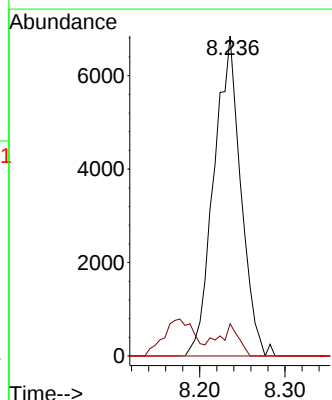
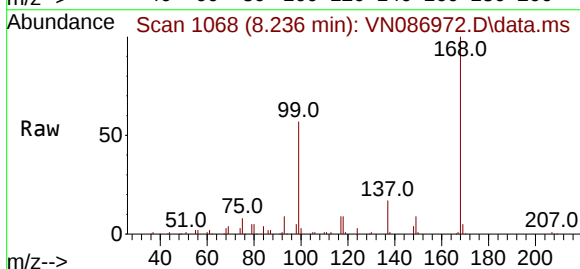
Tgt Ion: 75 Resp: 15051

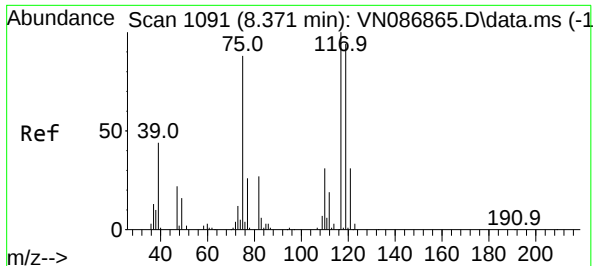
Ion Ratio Lower Upper

75 100

110 7.5 17.6 52.9#

77 0.0 25.3 37.9#

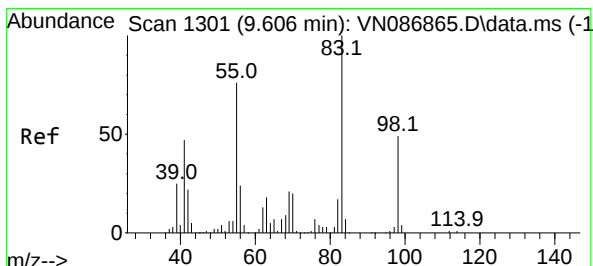
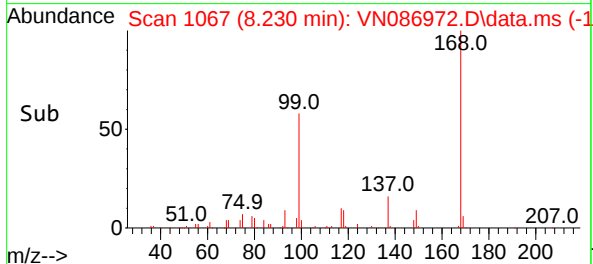
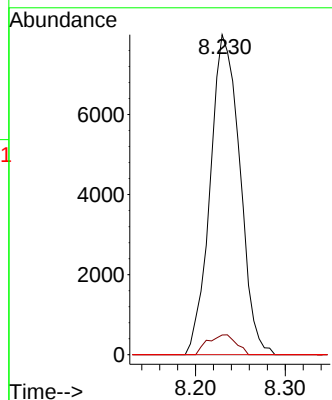
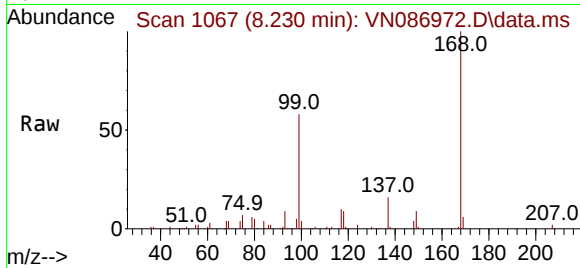




#38
Carbon Tetrachloride
Concen: 5.790 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

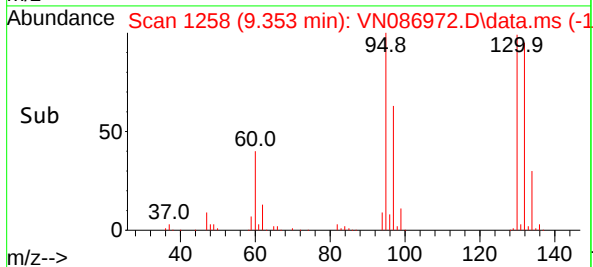
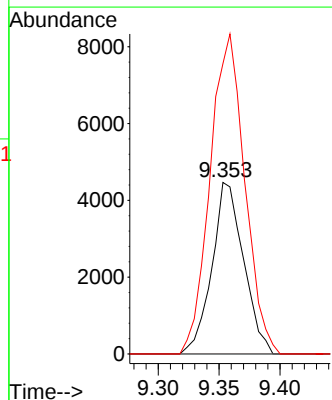
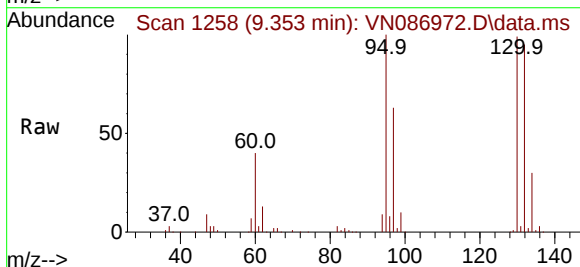
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

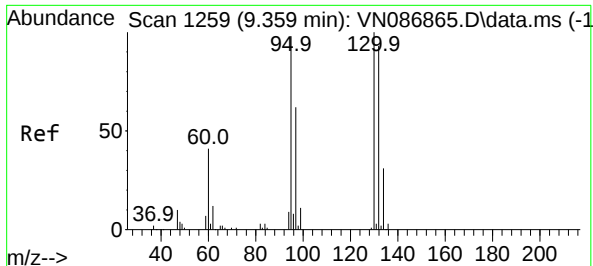
Tgt Ion:117 Resp: 18365
Ion Ratio Lower Upper
117 100
119 6.2 75.0 112.6#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 1.826 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.253 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 83 Resp: 8084
Ion Ratio Lower Upper
83 100
55 0.0 61.0 91.6#
98 169.2 38.9 58.3#

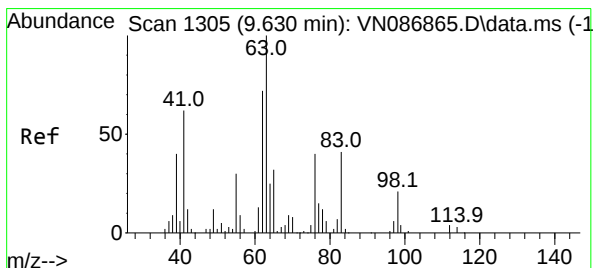
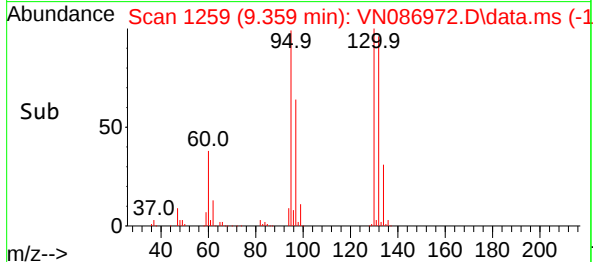
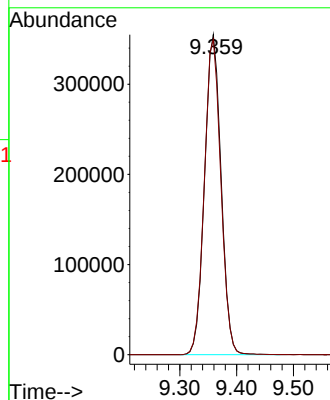
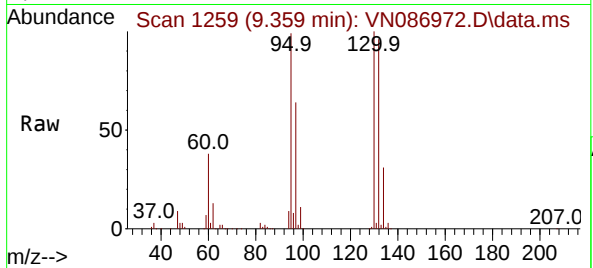




#44
Trichloroethene
Concen: 285.535 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

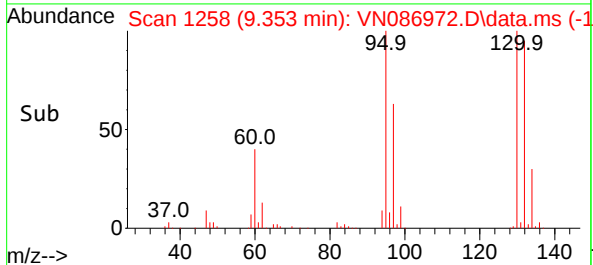
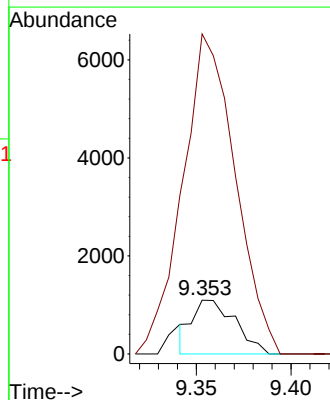
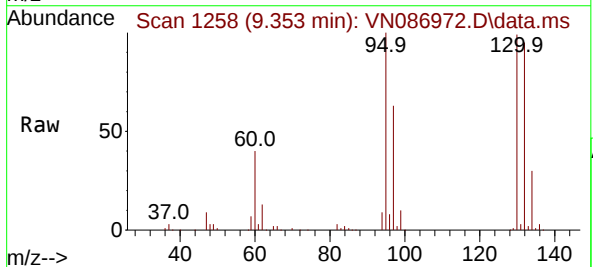
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

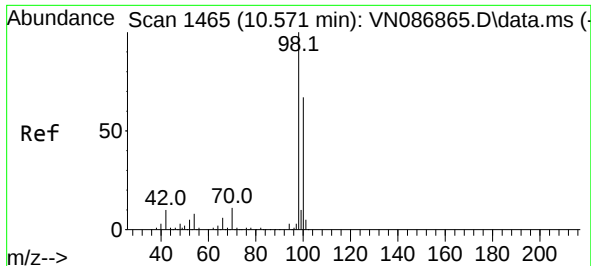
Tgt Ion:130 Resp: 715258
Ion Ratio Lower Upper
130 100
95 98.6 0.0 196.2



#45
1,2-Dichloropropane
Concen: 0.663 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.277 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 63 Resp: 1705
Ion Ratio Lower Upper
63 100
65 595.6 25.5 38.3#

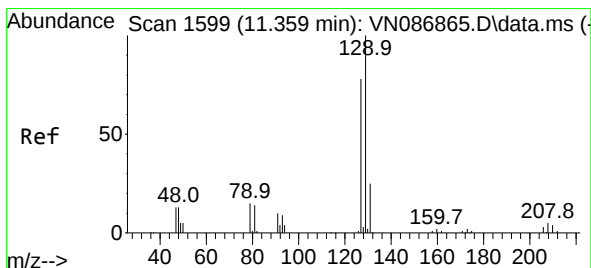
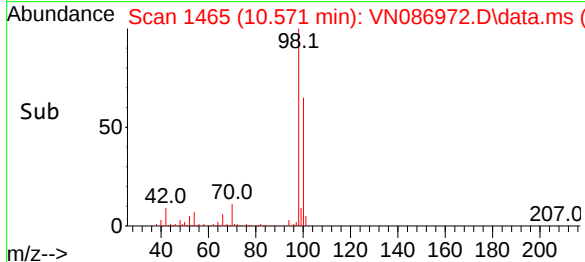
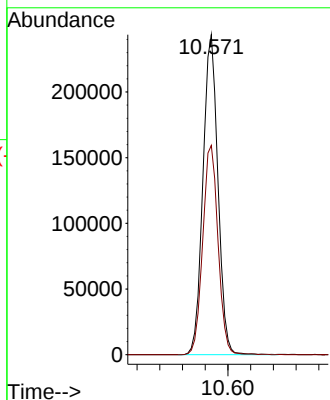
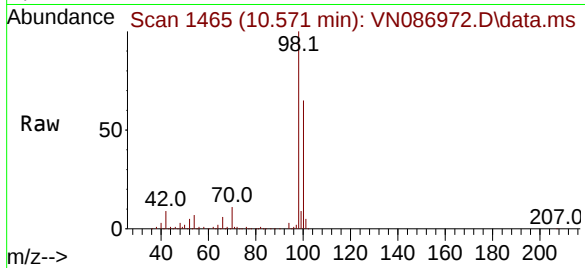




#50
Toluene-d8
Concen: 51.836 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

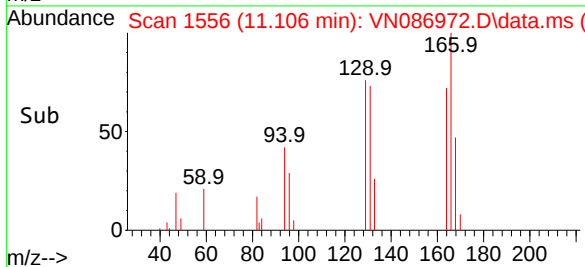
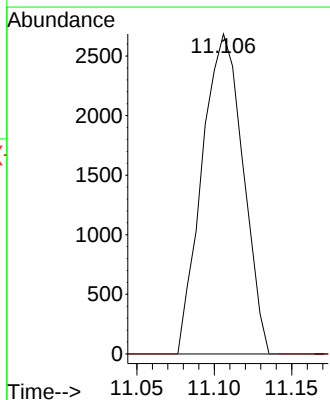
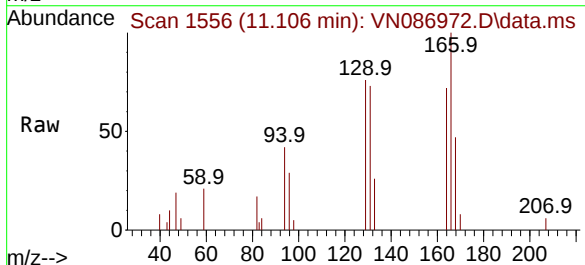
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

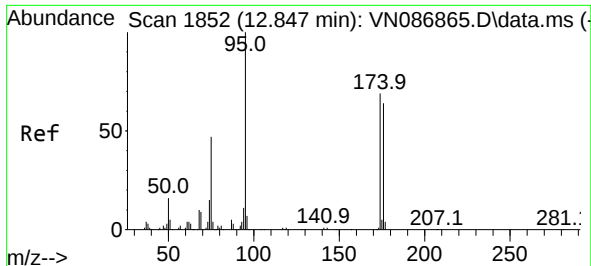
Tgt Ion: 98 Resp: 444898
Ion Ratio Lower Upper
98 100
100 66.8 53.4 80.0



#60
Dibromochloromethane
Concen: 1.910 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 129 Resp: 4944
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

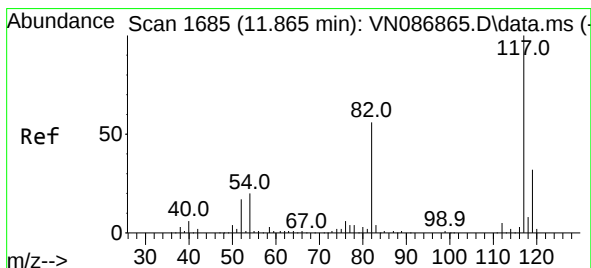
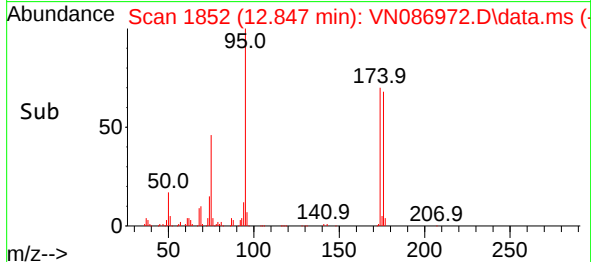
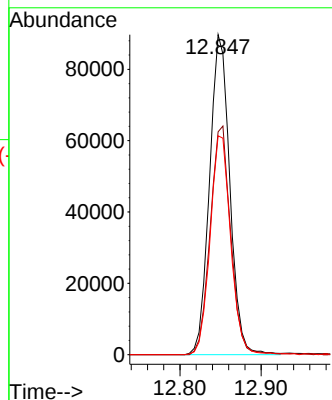
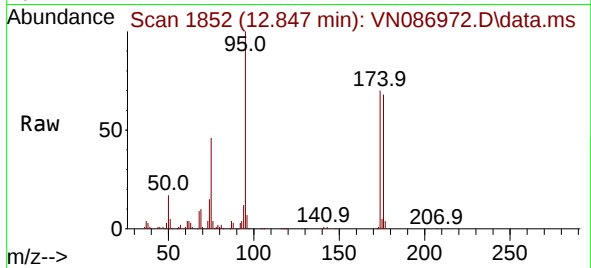




#62
4-Bromofluorobenzene
Concen: 48.760 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

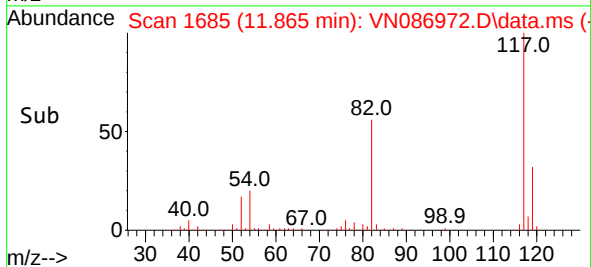
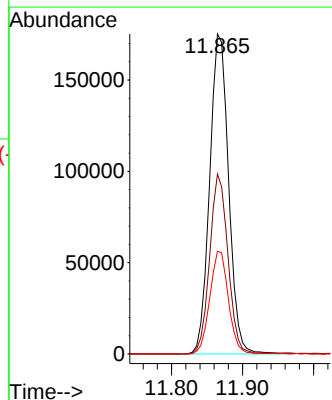
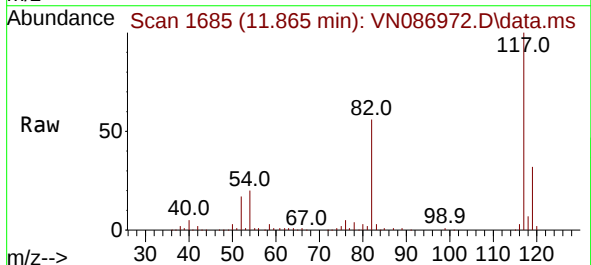
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

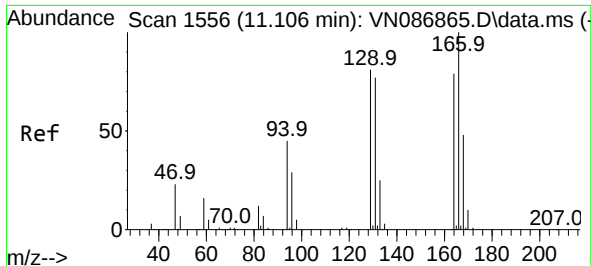
Tgt Ion: 95 Resp: 155483
Ion Ratio Lower Upper
95 100
174 72.5 0.0 141.8
176 69.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 117 Resp: 324312
Ion Ratio Lower Upper
117 100
82 56.2 44.6 67.0
119 32.1 25.5 38.3

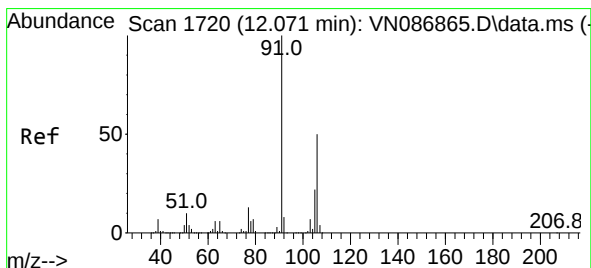
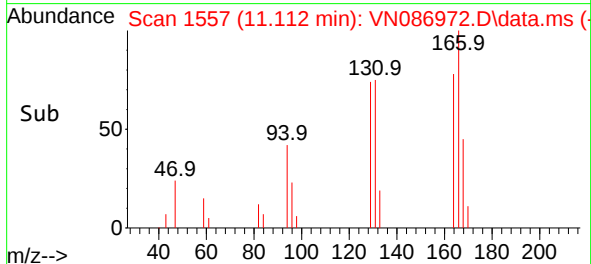
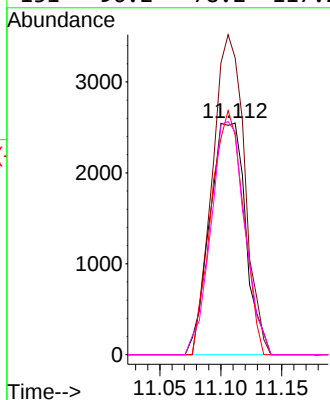
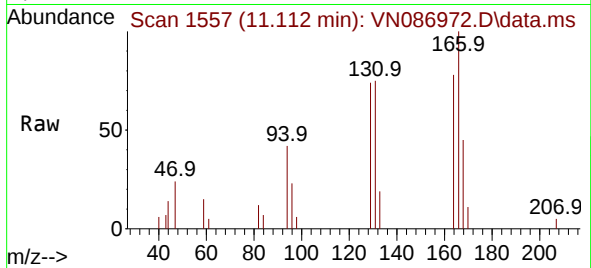




#64
Tetrachloroethene
Concen: 2.541 ug/l
RT: 11.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

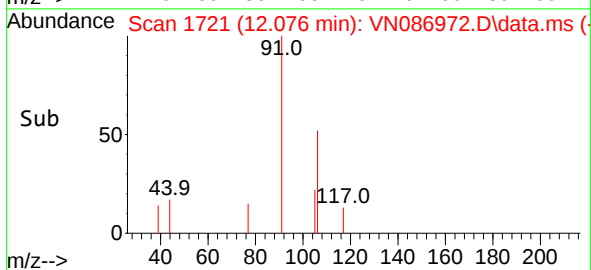
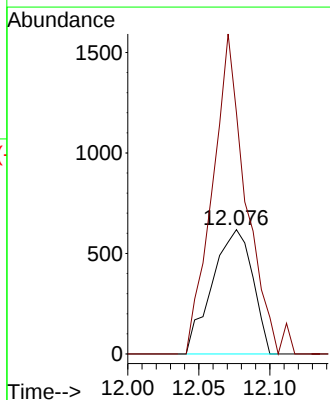
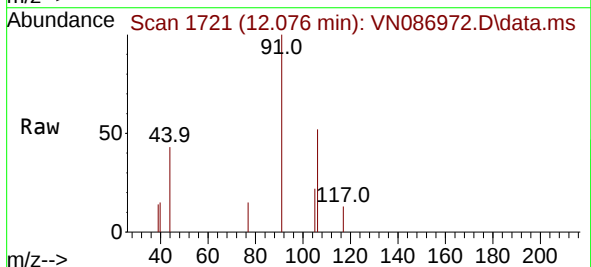
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

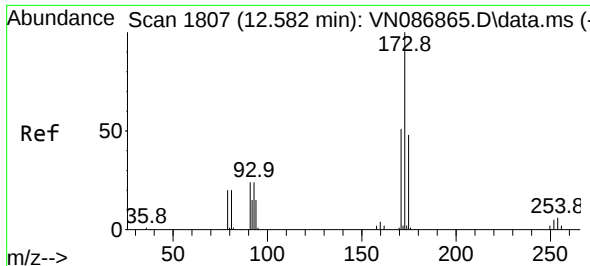
Tgt Ion:164 Resp: 5215
Ion Ratio Lower Upper
164 100
166 128.1 101.8 152.8
129 94.6 83.0 124.4
131 96.2 78.2 117.2



#68
m/p-Xylenes
Concen: 0.259 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion:106 Resp: 1221
Ion Ratio Lower Upper
106 100
91 215.9 159.4 239.0

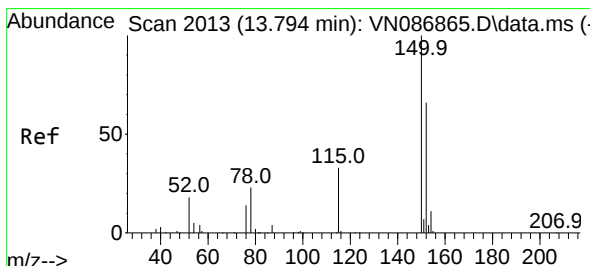
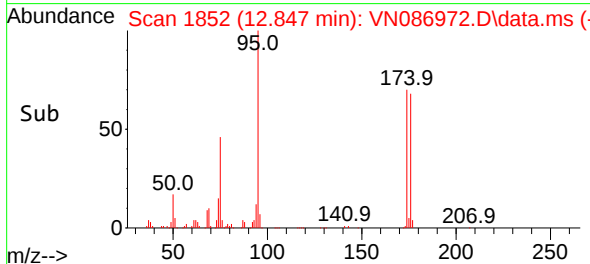
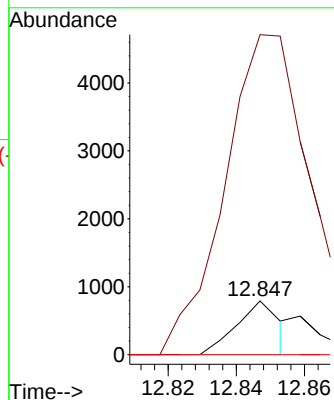
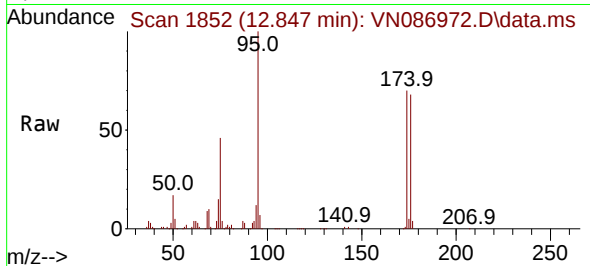




#71
Bromoform
Concen: 0.410 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

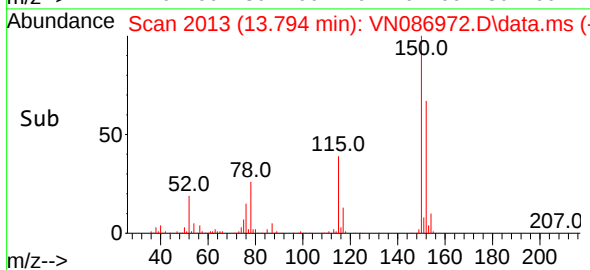
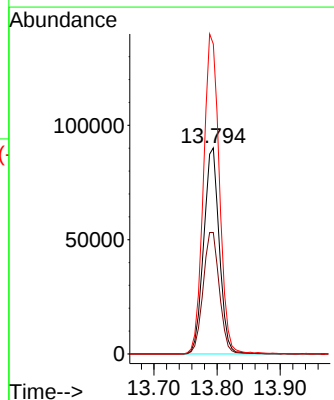
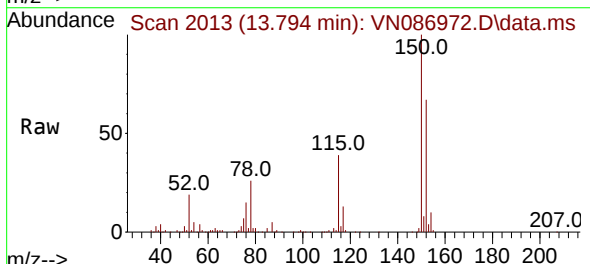
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

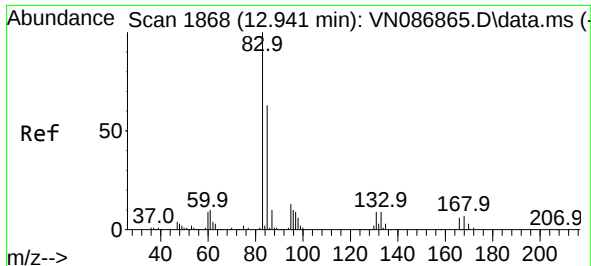
Tgt Ion:173 Resp: 698
Ion Ratio Lower Upper
173 100
175 1008.3 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion:152 Resp: 154633
Ion Ratio Lower Upper
152 100
115 61.4 30.1 90.5
150 159.0 0.0 345.0

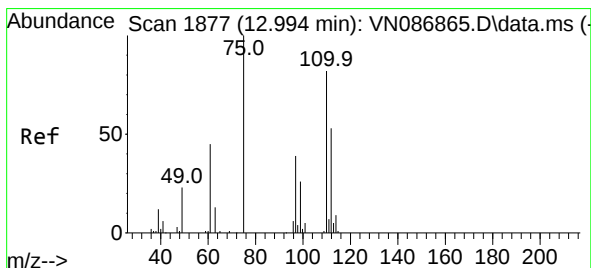
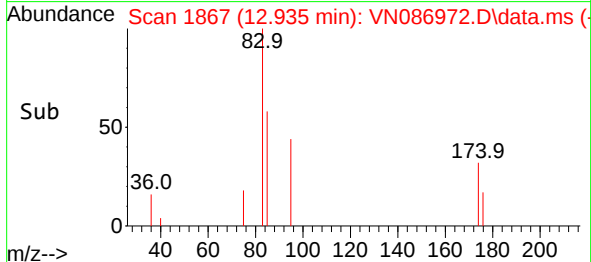
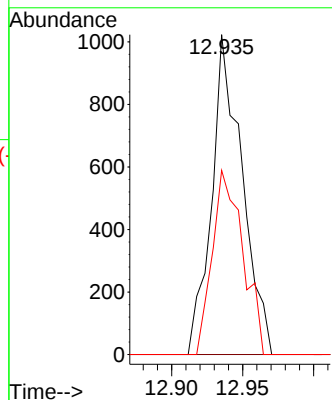
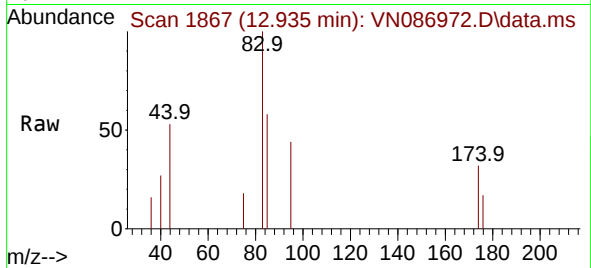




#75
1,1,2-Tetrachloroethane
Concen: 0.400 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

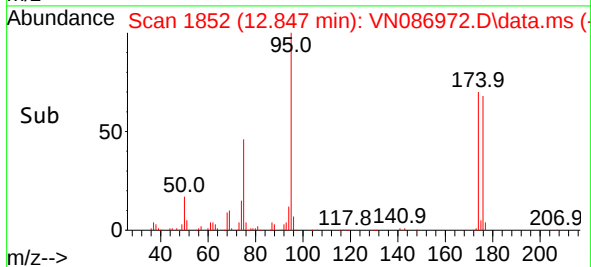
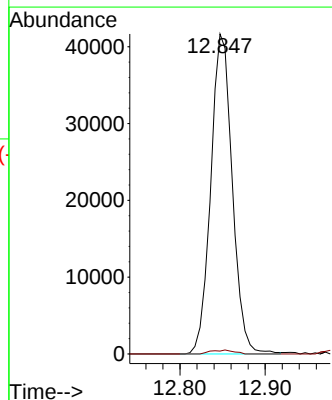
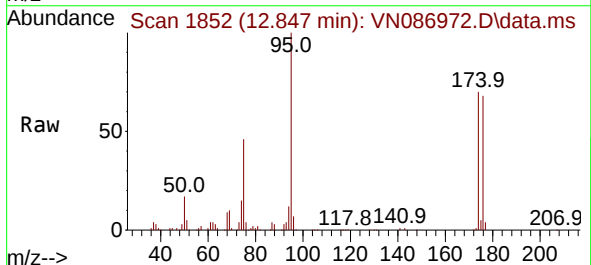
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

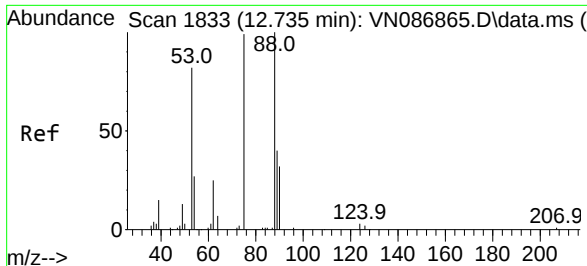
Tgt Ion: 83 Resp: 1527
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 57.6 32.0 96.0



#76
1,2,3-Trichloropropane
Concen: 19.872 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 75 Resp: 73044
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#

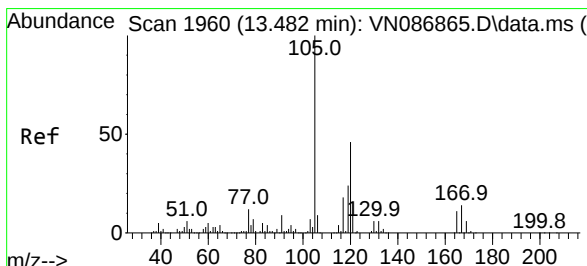
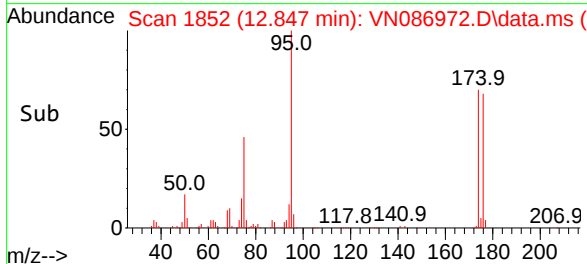
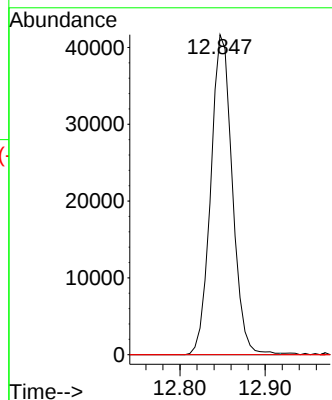
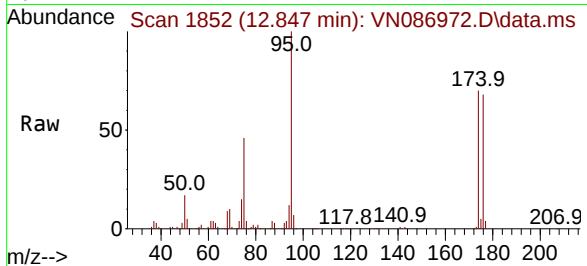




#81
trans-1,4-Dichloro-2-butene
Concen: 45.745 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

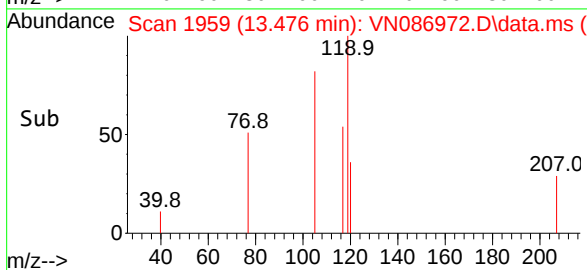
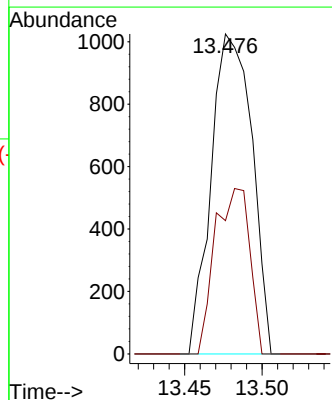
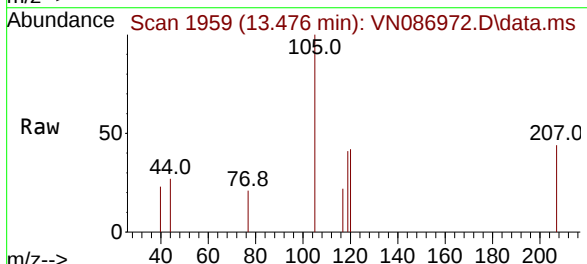
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

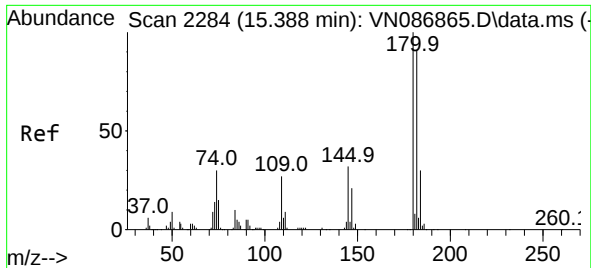
Tgt Ion: 75 Resp: 73044
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.202 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

Tgt Ion: 105 Resp: 1882
Ion Ratio Lower Upper
105 100
120 43.8 23.2 69.6

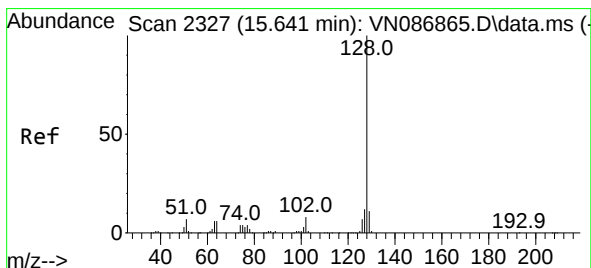
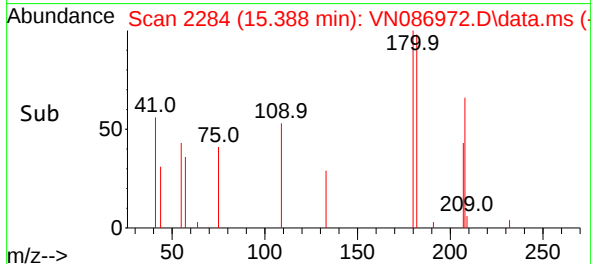
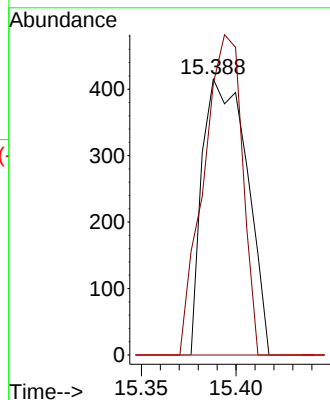
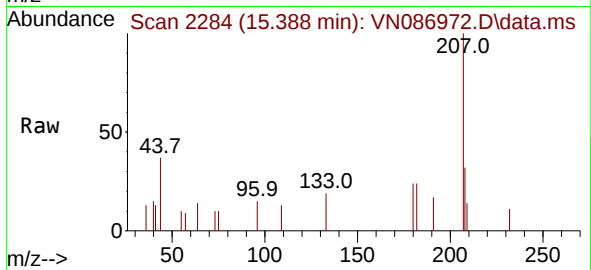




#93
1,2,4-Trichlorobenzene
Concen: 0.218 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

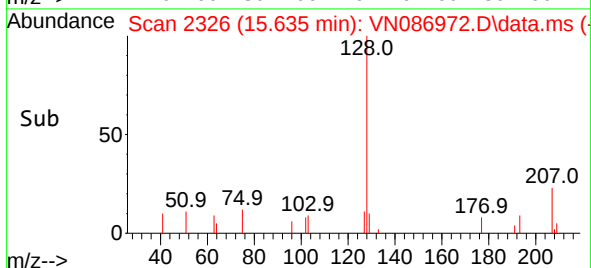
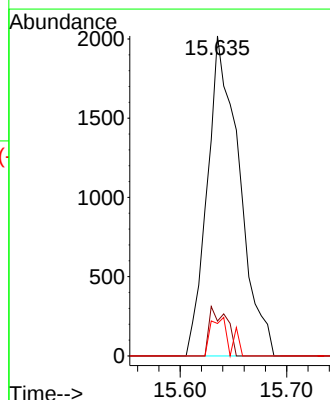
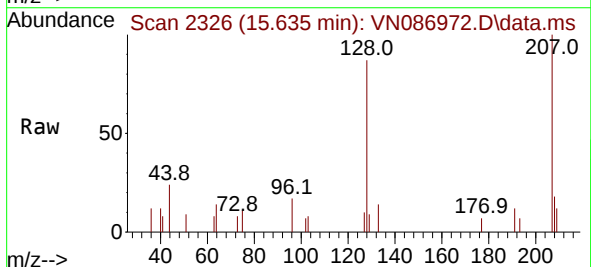
Instrument :
MSVOA_N
ClientSampleId :
MW-06-6.5-060525

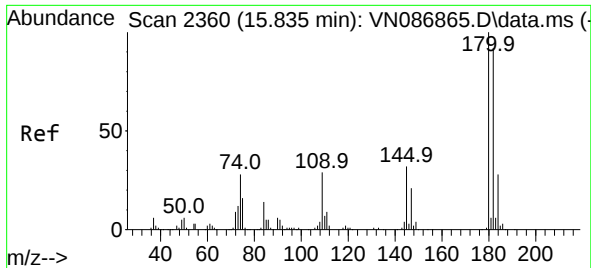
Tgt Ion:180 Resp: 681
Ion Ratio Lower Upper
180 100
182 100.4 46.9 140.7
145 0.0 16.0 47.9#



#95
Naphthalene
Concen: 0.363 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086972.D
Acq: 12 Jun 2025 13:15

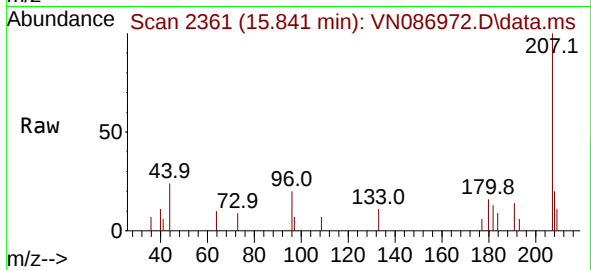
Tgt Ion:128 Resp: 4212
Ion Ratio Lower Upper
128 100
127 8.4 10.2 15.2#
129 7.1 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.249 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086972.D
 Acq: 12 Jun 2025 13:15

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-06-6.5-060525



Tgt Ion:180 Resp: 772
 Ion Ratio Lower Upper
 180 100
 182 73.4 47.0 141.0
 145 13.9 16.6 49.8#

