

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088143.D
 Acq On : 28 Oct 2025 16:24
 Operator : JC\MD
 Sample : Q3477-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOUTH-MAHWAH-WATER

Quant Time: Oct 29 02:28:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

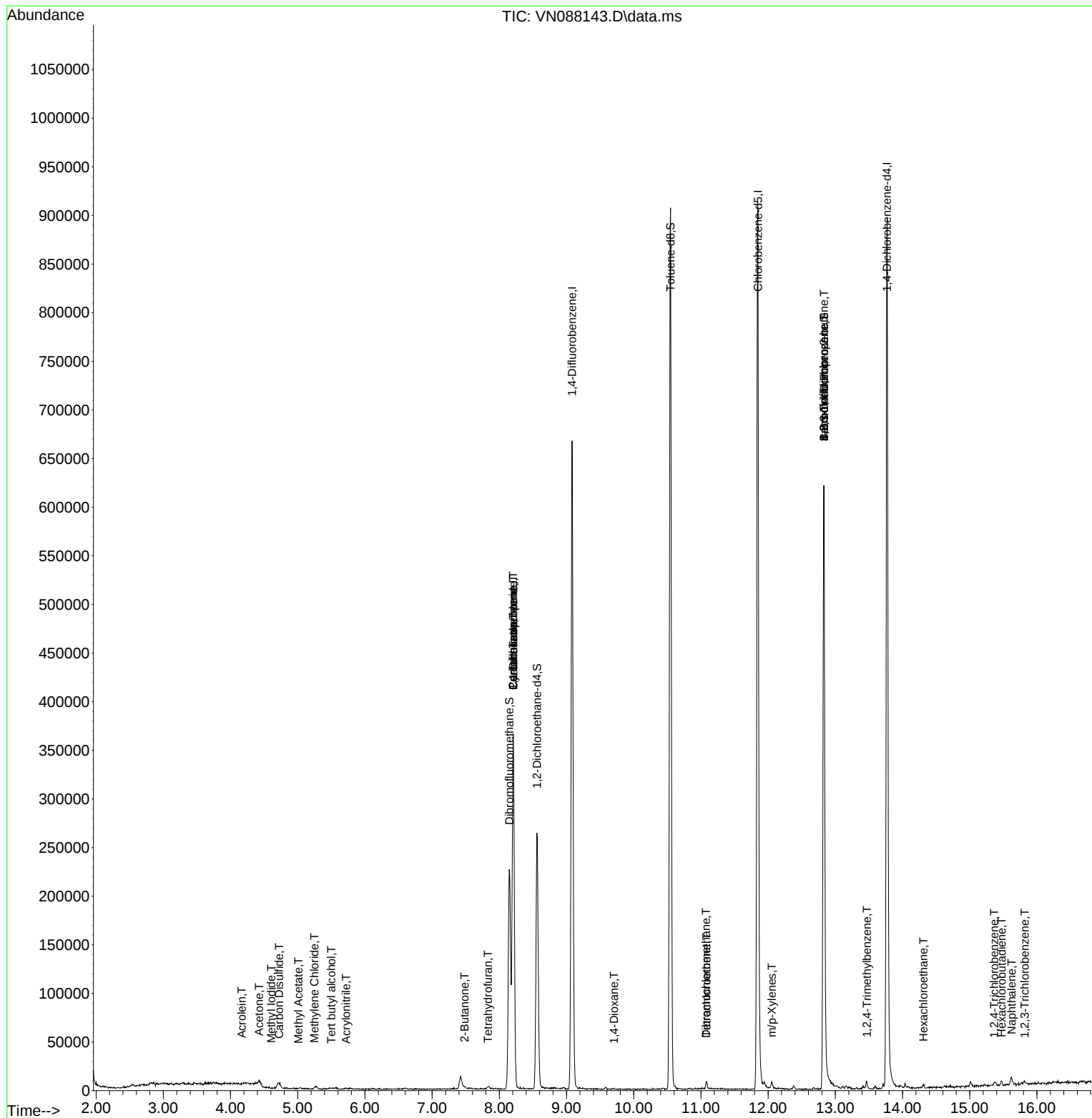
Internal Standards						
1) Pentafluorobenzene	8.206	168	239370	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	541511	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	502020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	242841	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	221126	53.422	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.840%			
35) Dibromofluoromethane	8.147	113	163794	45.024	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.040%			
50) Toluene-d8	10.547	98	612015	43.661	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 87.320%			
62) 4-Bromofluorobenzene	12.829	95	233958	47.260	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.520%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.606	142	596	4.405	ug/l #	38
11) Tert butyl alcohol	5.500	59	293	0.411	ug/l #	71
13) Acrolein	4.165	56	251	0.313	ug/l #	14
15) Acrylonitrile	5.718	53	611	0.315	ug/l #	62
16) Acetone	4.424	43	9724	4.676	ug/l	91
17) Carbon Disulfide	4.724	76	1918	0.210	ug/l #	74
18) Methyl Acetate	5.012	43	1376	0.323	ug/l #	54
20) Methylene Chloride	5.247	84	742	0.999	ug/l #	62
25) 2-Butanone	7.483	43	2413	0.881	ug/l #	50
29) Tetrahydrofuran	7.830	42	858	0.480	ug/l #	51
31) Cyclohexane	8.206	56	7570	1.307	ug/l #	26
36) 1,1-Dichloropropene	8.206	75	25070	4.720	ug/l #	53
38) Carbon Tetrachloride	8.206	117	29747	5.422	ug/l #	16
49) 1,4-Dioxane	9.706	88	599	9.904	ug/l #	87
60) Dibromochloromethane	11.077	129	1410	0.328	ug/l #	10
64) Tetrachloroethene	11.082	164	1347	0.407	ug/l #	67
68) m/p-Xylenes	12.053	106	1956	0.261	ug/l	85
71) Bromoform	12.829	173	1476	0.530	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	133566	24.057	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	133566	67.107	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.470	105	4591	0.295	ug/l	80
90) Hexachloroethane	14.312	117	749	0.236	ug/l #	44
93) 1,2,4-Trichlorobenzene	15.364	180	1341	0.285	ug/l	91
94) Hexachlorobutadiene	15.476	225	694	0.396	ug/l	81
95) Naphthalene	15.623	128	7516	0.466	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.817	180	1183	0.262	ug/l	94

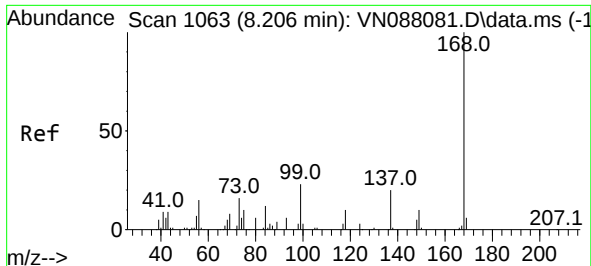
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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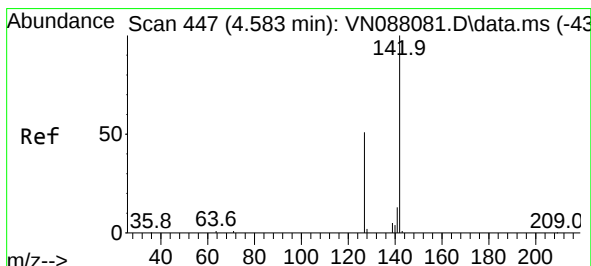
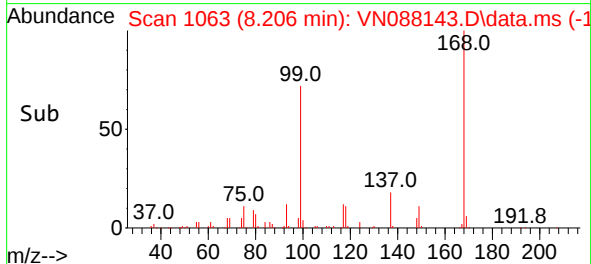
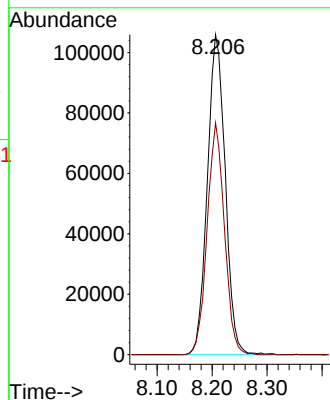
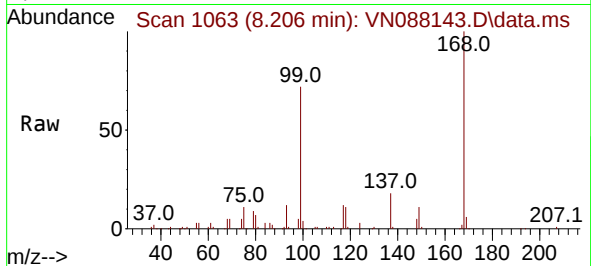




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

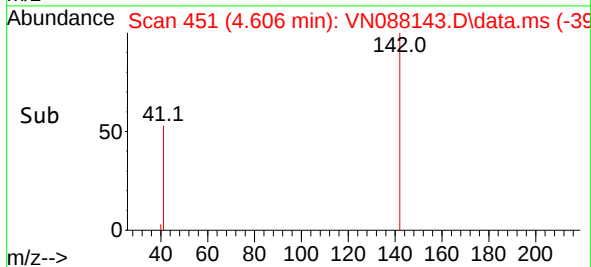
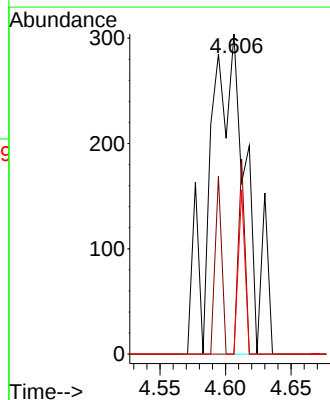
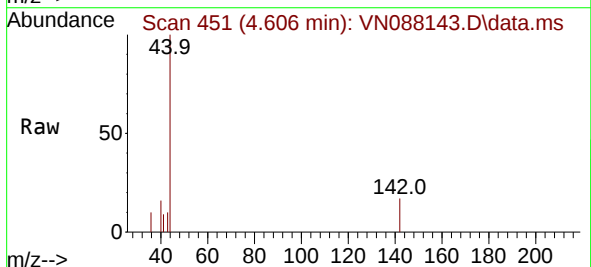
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

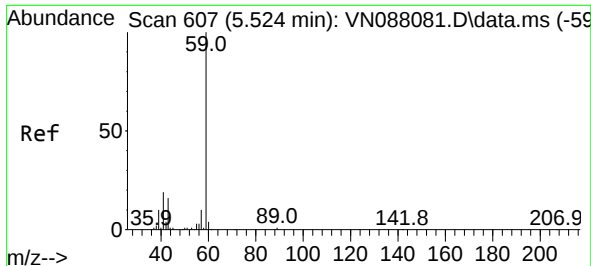
Tgt Ion:168 Resp: 239370
Ion Ratio Lower Upper
168 100
99 72.5 57.2 85.8



#10
Methyl Iodide
Concen: 4.405 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.029 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion:142 Resp: 596
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#





#11

Tert butyl alcohol

Concen: 0.411 ug/l

RT: 5.500 min Scan# 607

Delta R.T. -0.018 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

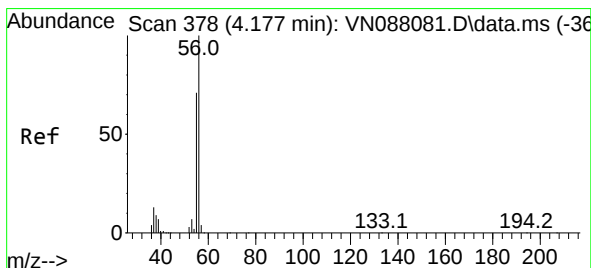
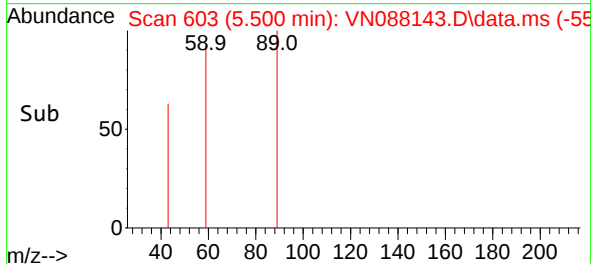
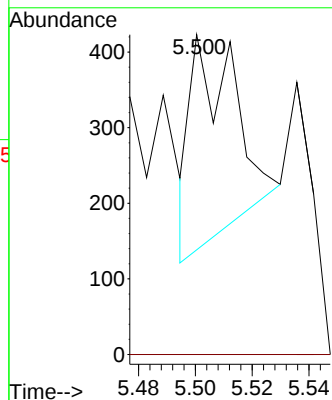
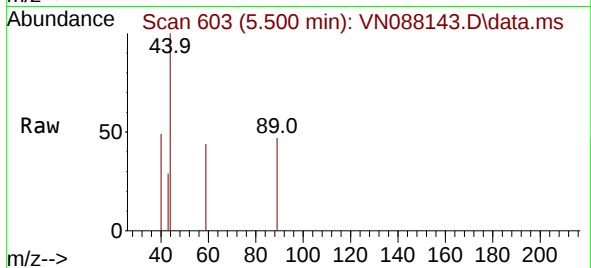
SOUTH-MAHWAH-WATER

Tgt Ion: 59 Resp: 293

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#13

Acrolein

Concen: 0.313 ug/l

RT: 4.165 min Scan# 376

Delta R.T. -0.006 min

Lab File: VN088143.D

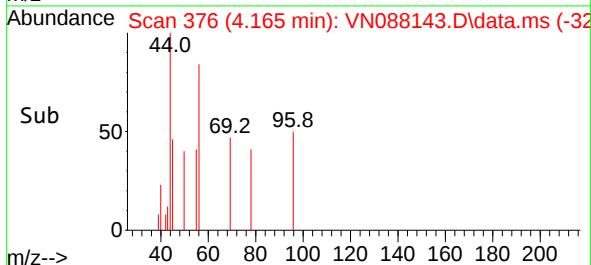
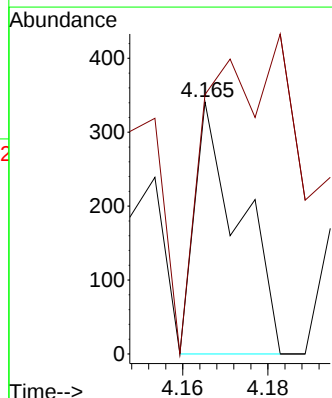
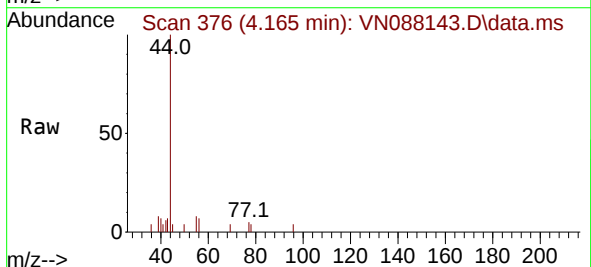
Acq: 28 Oct 2025 16:24

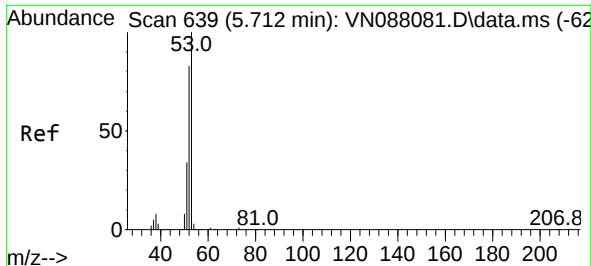
Tgt Ion: 56 Resp: 251

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#

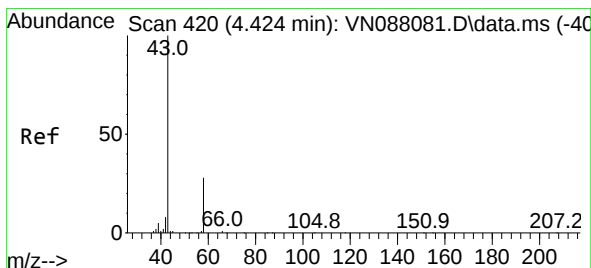
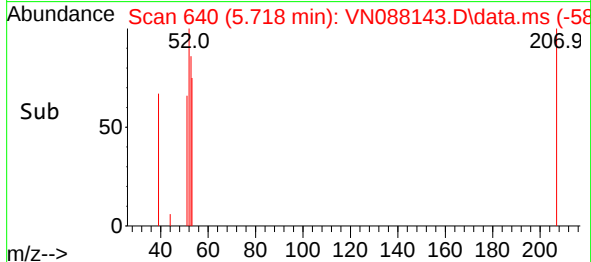
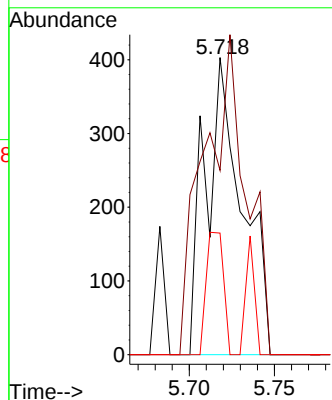
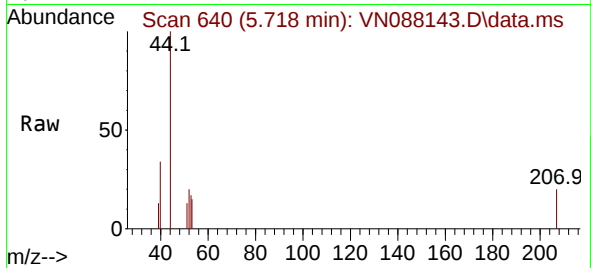




#15
Acrylonitrile
Concen: 0.315 ug/l
RT: 5.718 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

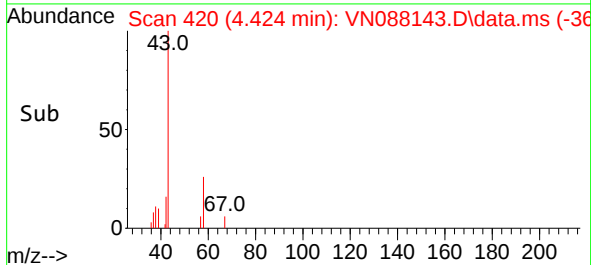
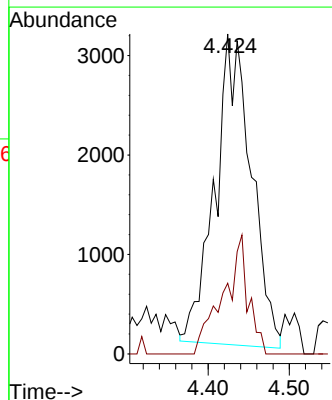
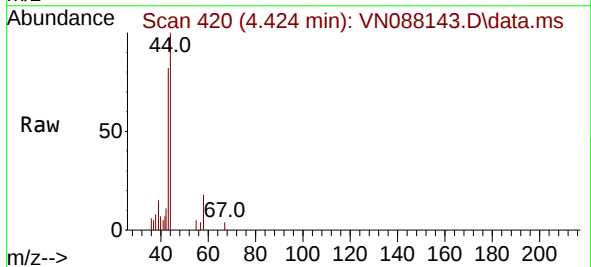
Instrument :
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SOUTH-MAHWAH-WATER

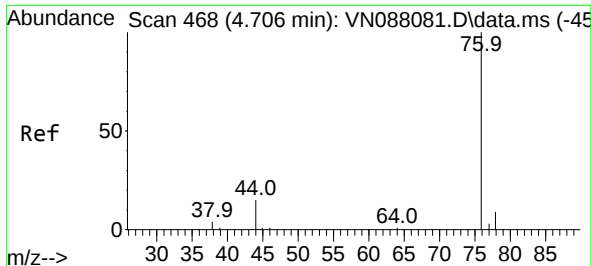
Tgt Ion: 53 Resp: 611
Ion Ratio Lower Upper
53 100
52 121.9 67.6 101.4#
51 19.1 30.1 45.1#



#16
Acetone
Concen: 4.676 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion: 43 Resp: 9724
Ion Ratio Lower Upper
43 100
58 23.4 22.6 33.8

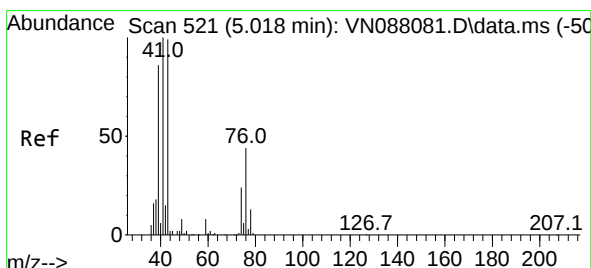
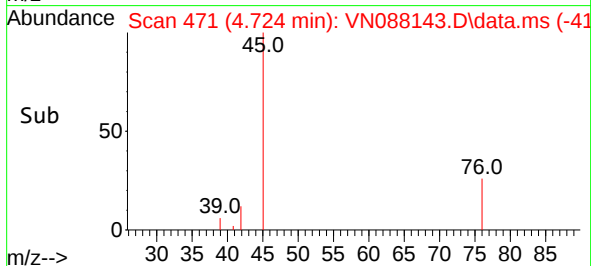
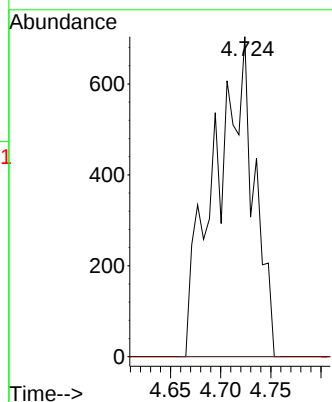
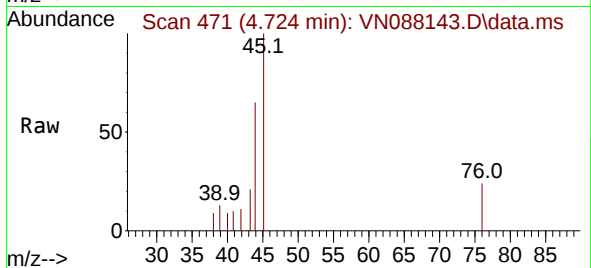




#17
Carbon Disulfide
Concen: 0.210 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

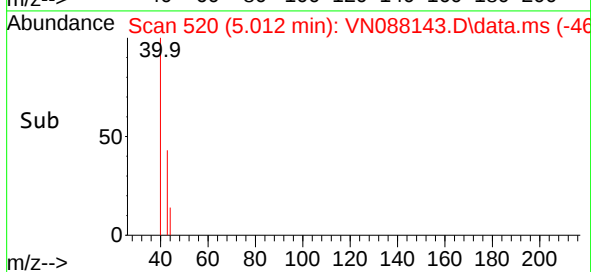
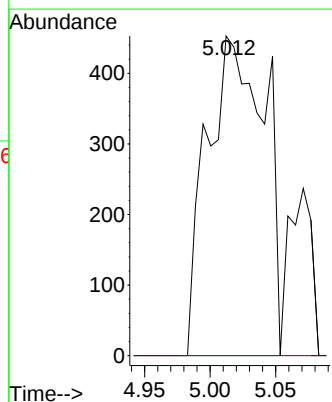
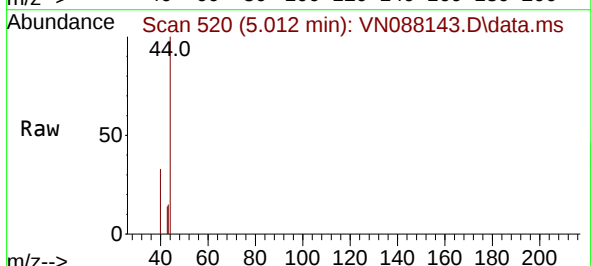
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

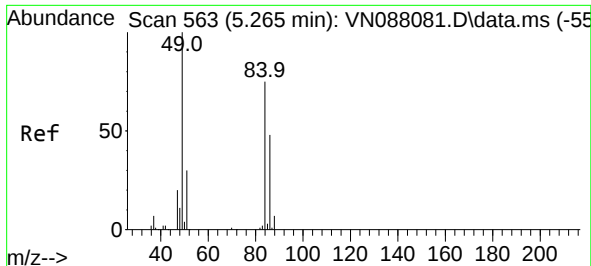
Tgt Ion: 76 Resp: 1918
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.323 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

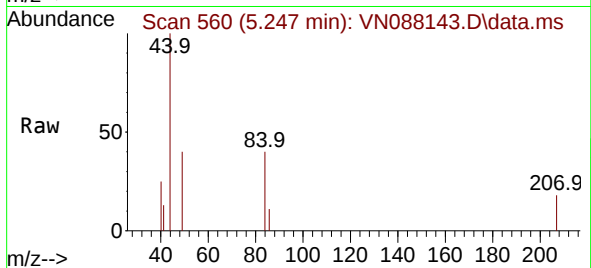
Tgt Ion: 43 Resp: 1376
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



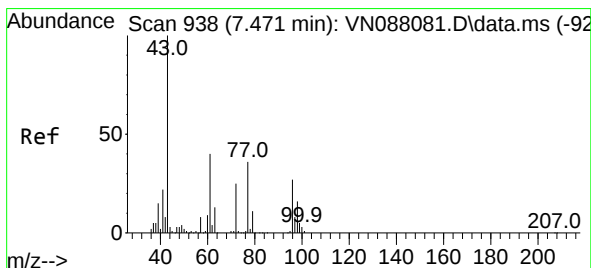
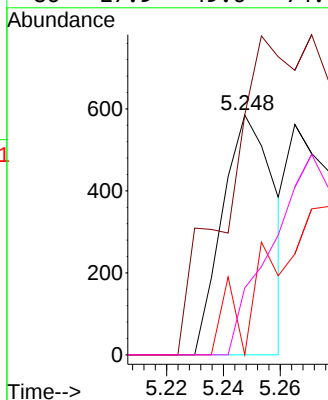
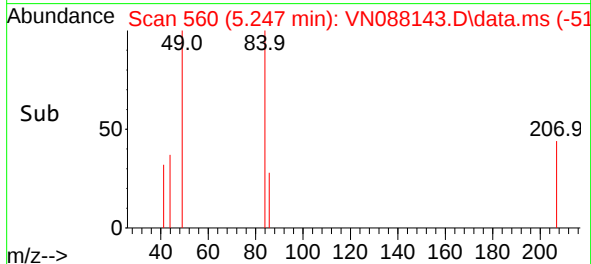


#20
Methylene Chloride
Concen: 0.999 ug/l
RT: 5.247 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

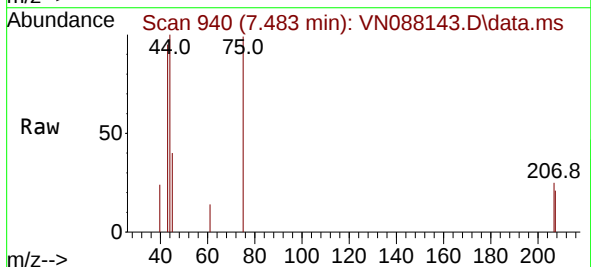
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER



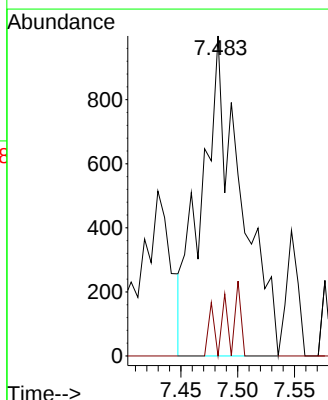
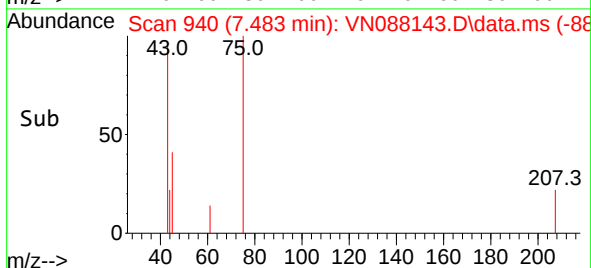
Tgt Ion: 84 Resp: 742
Ion Ratio Lower Upper
84 100
49 100.0 103.4 155.2#
51 0.0 33.8 50.8#
86 27.9 49.6 74.4#

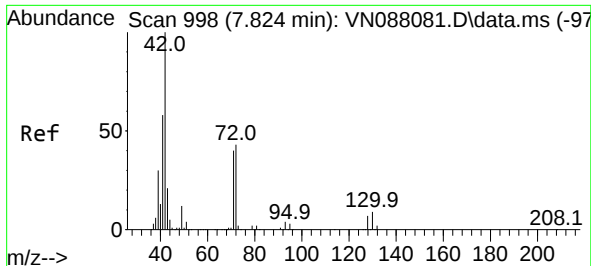


#25
2-Butanone
Concen: 0.881 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24



Tgt Ion: 43 Resp: 2413
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#





#29

Tetrahydrofuran

Concen: 0.480 ug/l

RT: 7.830 min Scan# 998

Delta R.T. 0.006 min

Lab File: VN088143.D

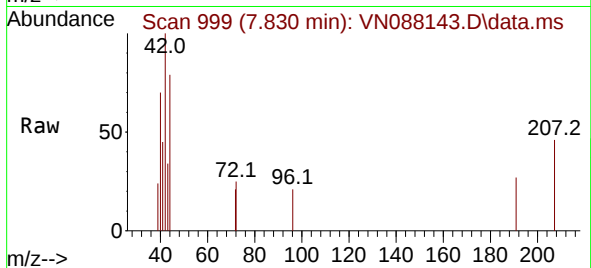
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Instrument :

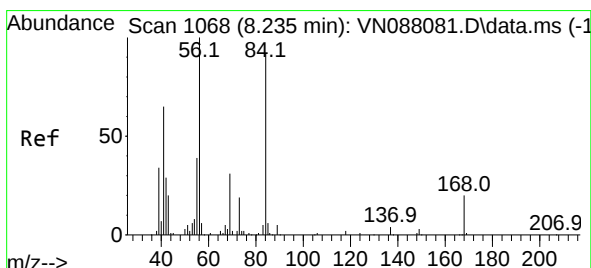
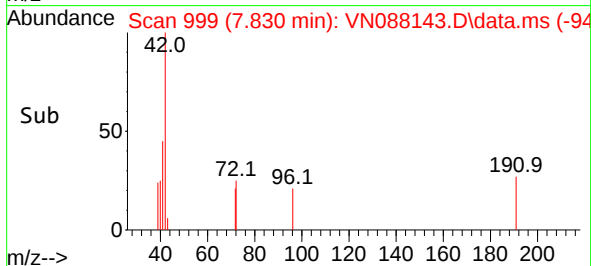
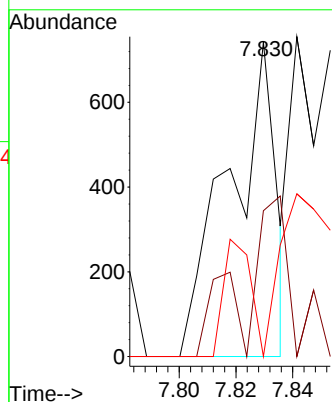
MSVOA_N

ClientSampleId :

SOUTH-MAHWAH-WATER



Tgt Ion:	42	Resp:	858
Ion Ratio	Lower	Upper	
42	100		
72	0.0	33.7	50.5#
71	21.3	31.9	47.9#



#31

Cyclohexane

Concen: 1.307 ug/l

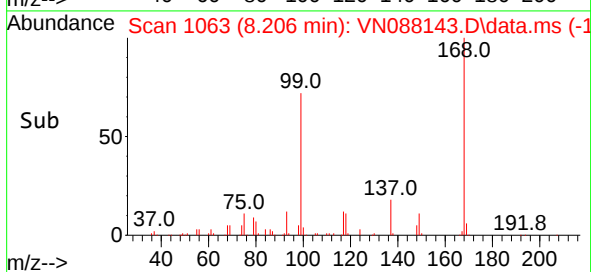
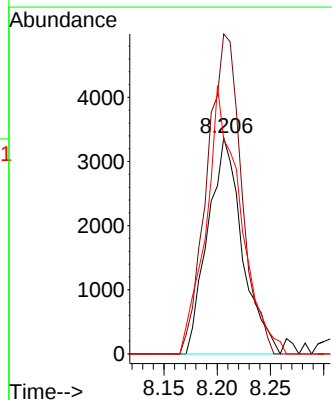
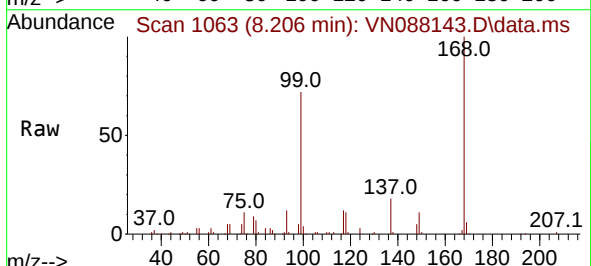
RT: 8.206 min Scan# 1063

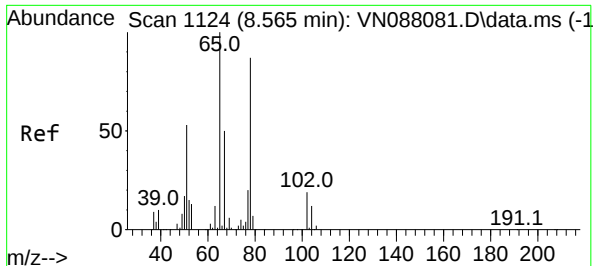
Delta R.T. -0.029 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Tgt Ion:	56	Resp:	7570
Ion Ratio	Lower	Upper	
56	100		
69	148.1	23.7	35.5#
84	99.2	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 53.422 ug/l

RT: 8.559 min Scan# 1124

Delta R.T. -0.000 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

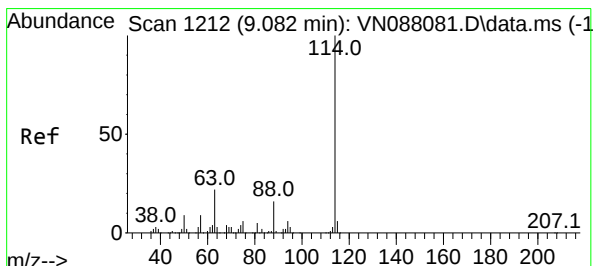
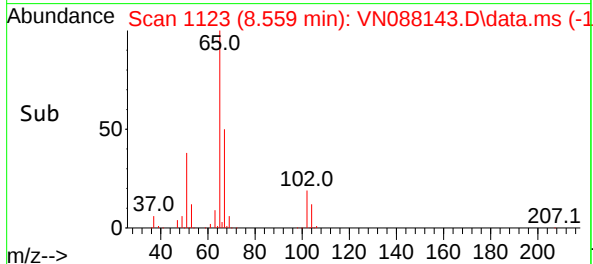
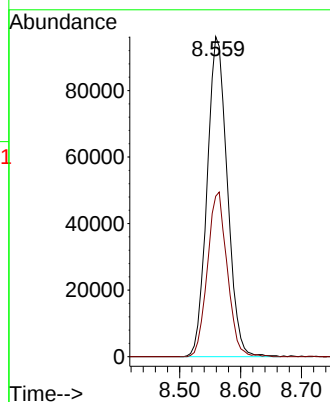
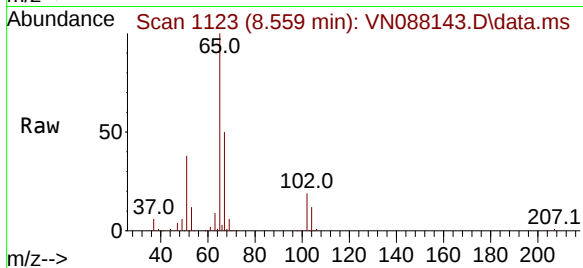
SOUTH-MAHWAH-WATER

Tgt Ion: 65 Resp: 221126

Ion Ratio Lower Upper

65 100

67 50.4 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

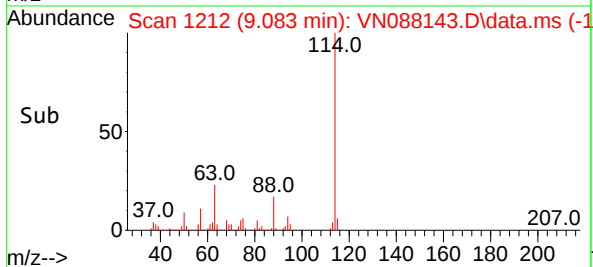
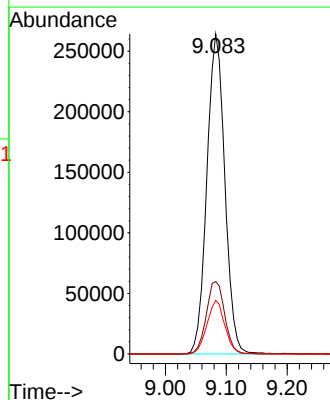
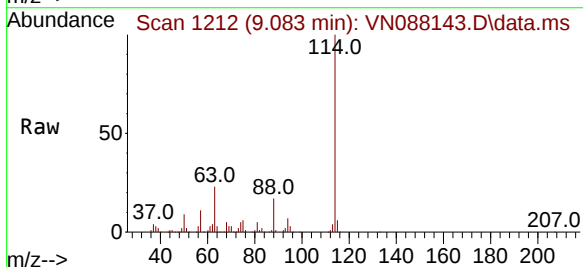
Tgt Ion: 114 Resp: 541511

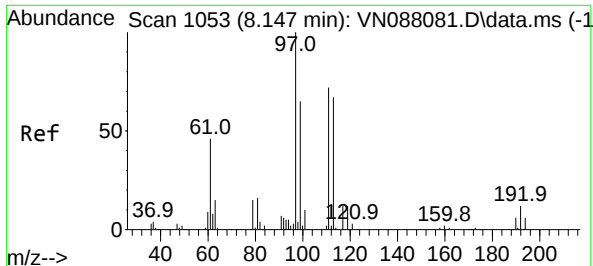
Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.2

88 16.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 45.024 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088143.D

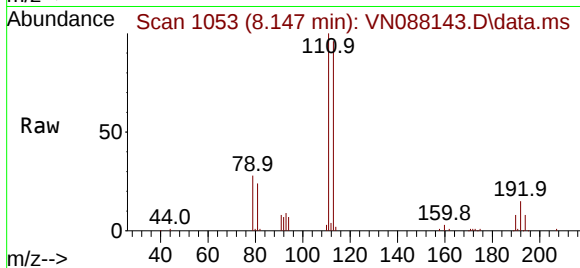
Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

SOUTH-MAHWAH-WATER



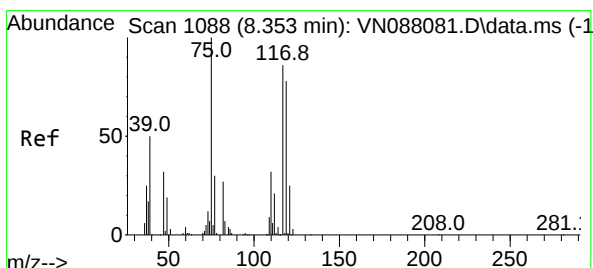
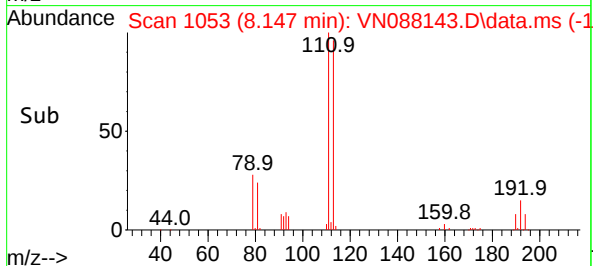
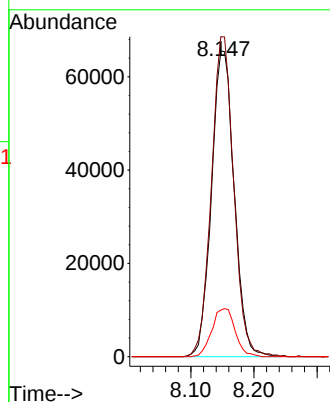
Tgt Ion:113 Resp: 163794

Ion Ratio Lower Upper

113 100

111 102.8 82.8 124.2

192 16.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.720 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

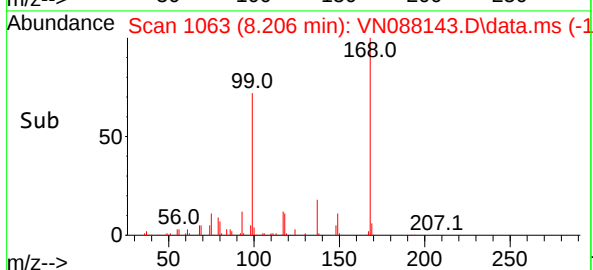
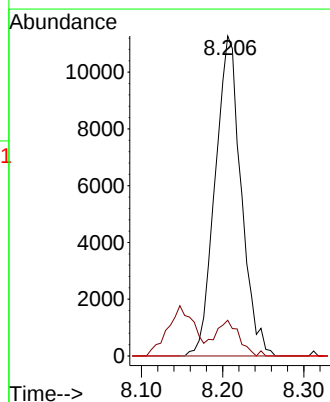
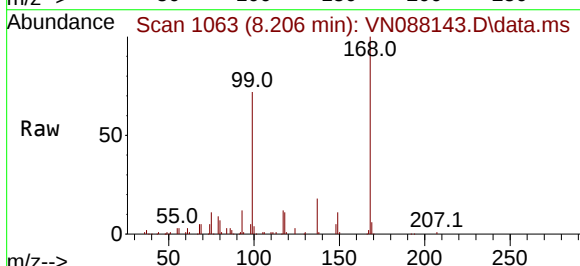
Tgt Ion: 75 Resp: 25070

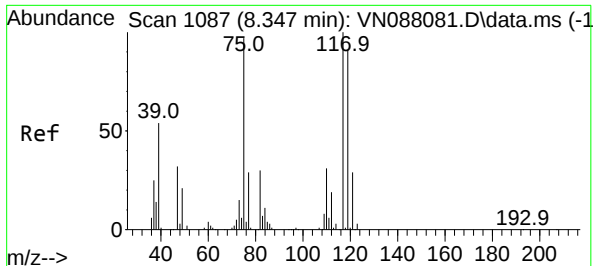
Ion Ratio Lower Upper

75 100

110 10.3 15.9 47.6#

77 0.0 24.4 36.6#

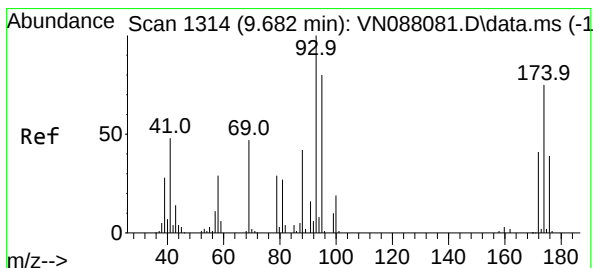
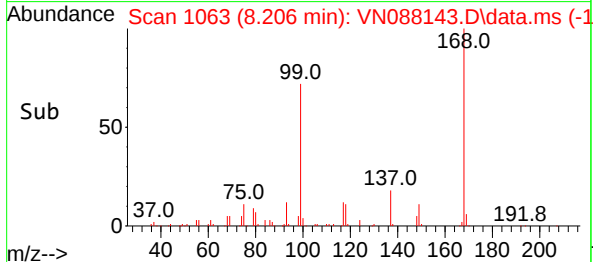
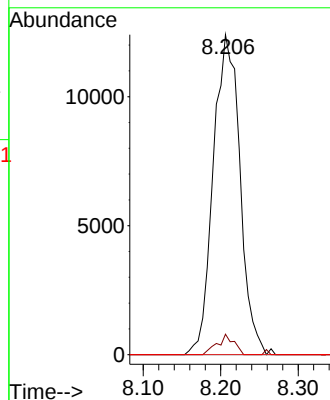
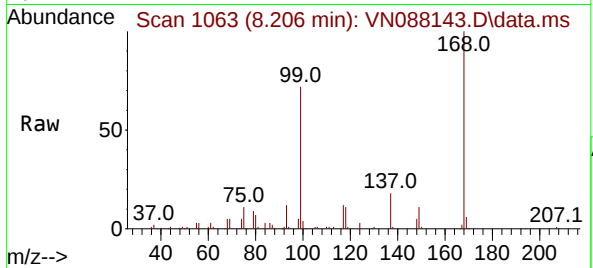




#38
Carbon Tetrachloride
Concen: 5.422 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

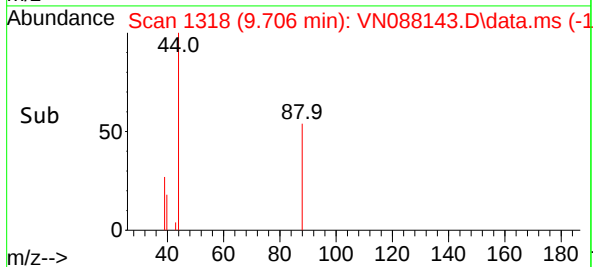
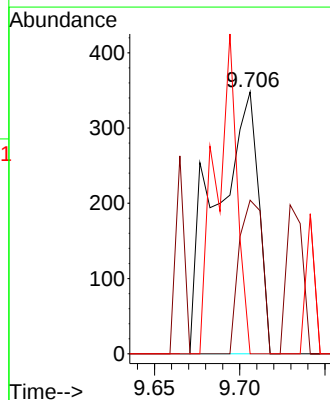
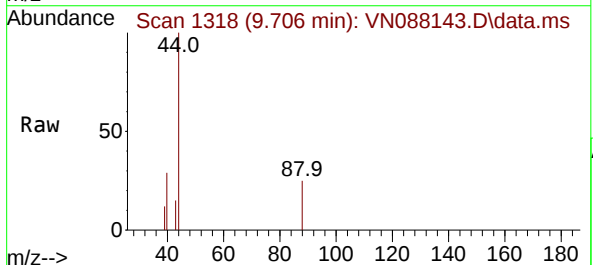
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

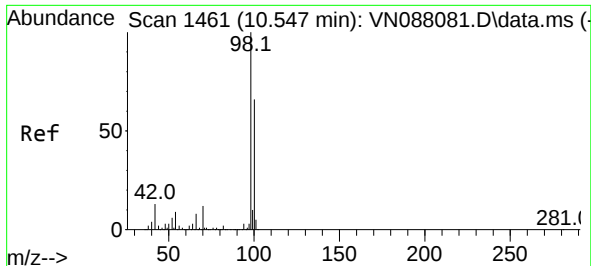
Tgt Ion: 117 Resp: 29747
Ion Ratio Lower Upper
117 100
119 6.4 79.0 118.6#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: 9.904 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.024 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion: 88 Resp: 599
Ion Ratio Lower Upper
88 100
43 32.4 0.0 0.0#
58 61.4 57.9 86.9

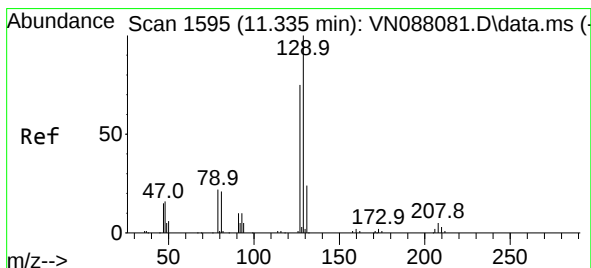
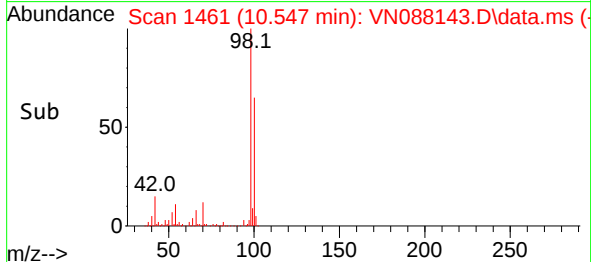
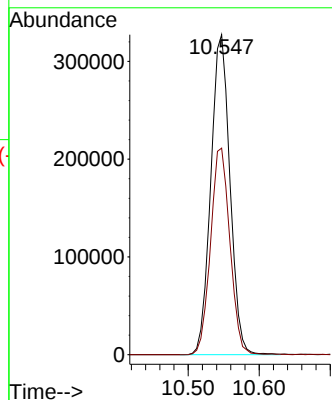
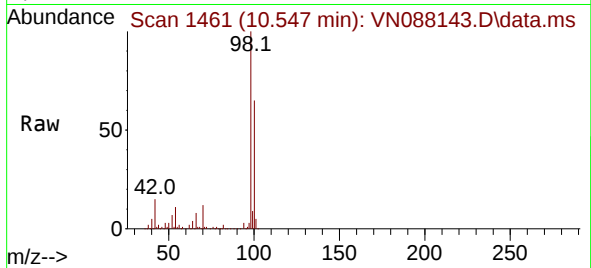




#50
Toluene-d8
Concen: 43.661 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

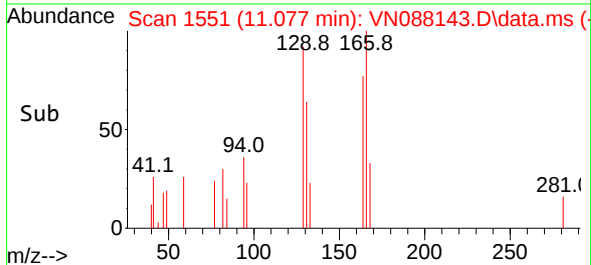
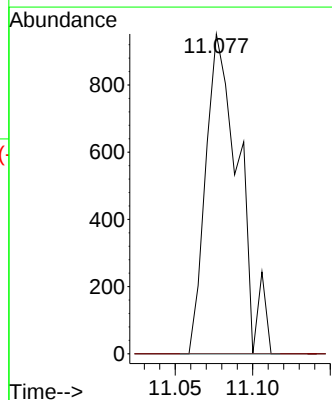
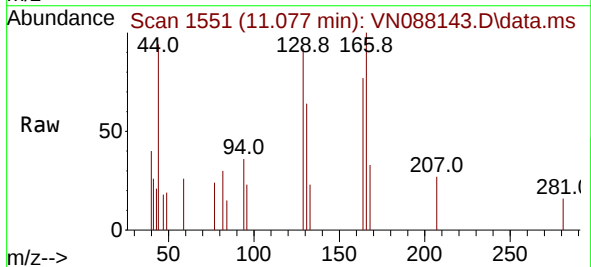
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

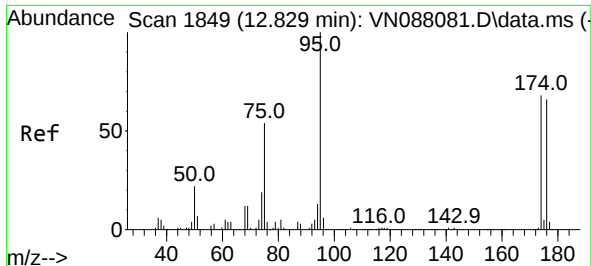
Tgt Ion: 98 Resp: 612015
Ion Ratio Lower Upper
98 100
100 65.2 52.8 79.2



#60
Dibromochloromethane
Concen: 0.328 ug/l
RT: 11.077 min Scan# 1551
Delta R.T. -0.259 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion:129 Resp: 1410
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#

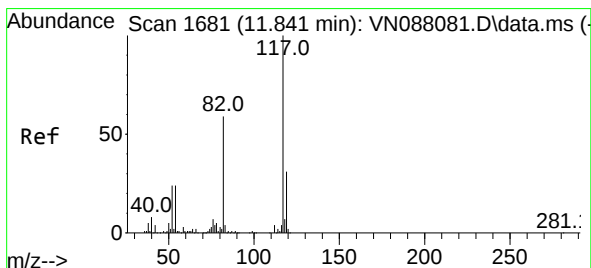
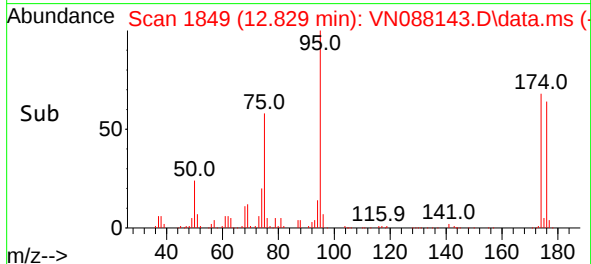
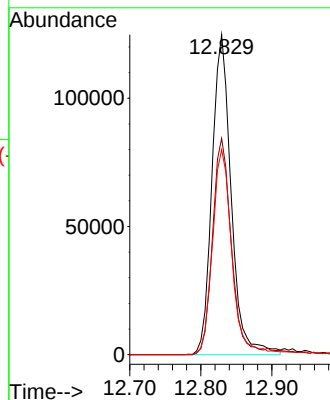
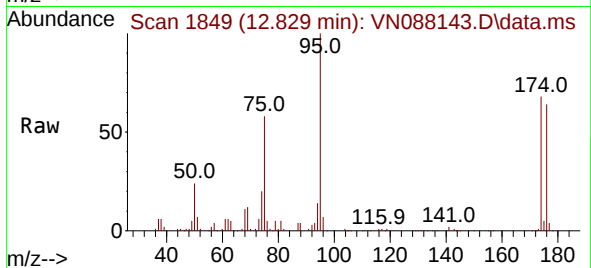




#62
4-Bromofluorobenzene
Concen: 47.260 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

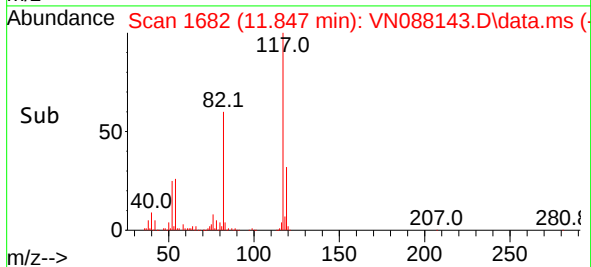
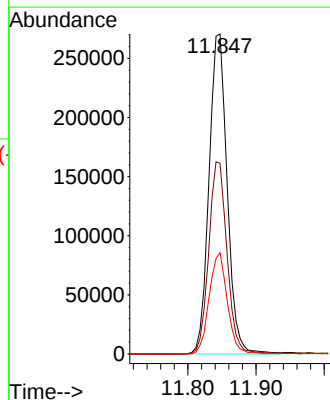
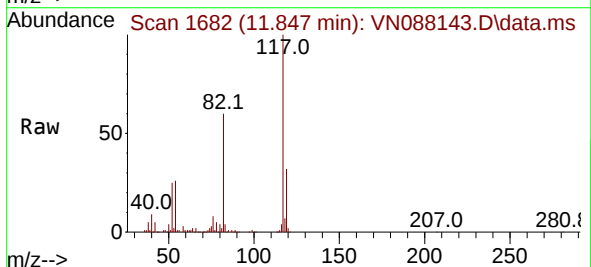
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

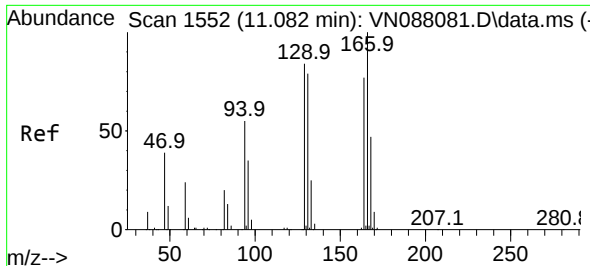
Tgt Ion: 95 Resp: 233958
Ion Ratio Lower Upper
95 100
174 68.4 0.0 138.4
176 66.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion: 117 Resp: 502020
Ion Ratio Lower Upper
117 100
82 59.6 47.4 71.2
119 31.6 24.3 36.5

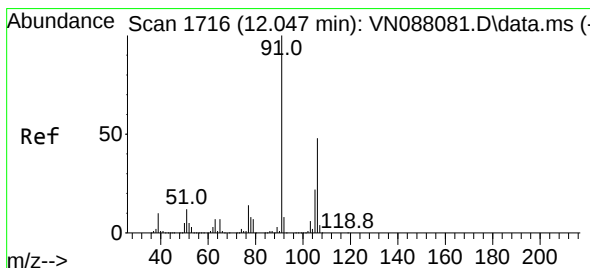
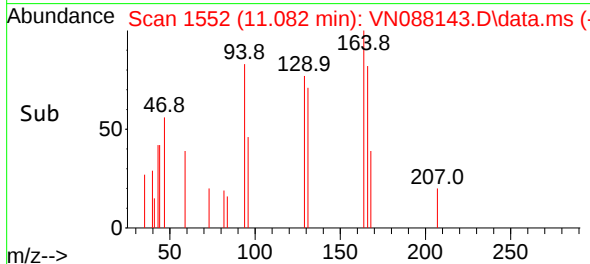
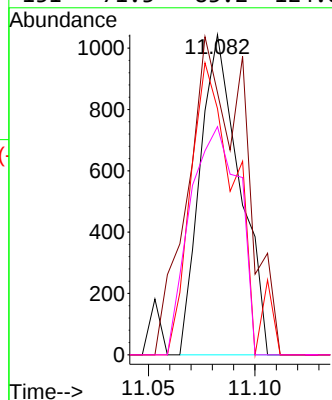
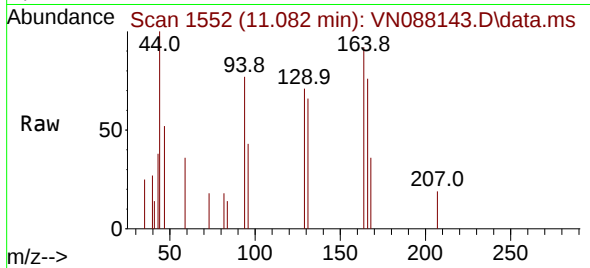




#64
Tetrachloroethene
Concen: 0.407 ug/l
RT: 11.082 min Scan# 1152
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

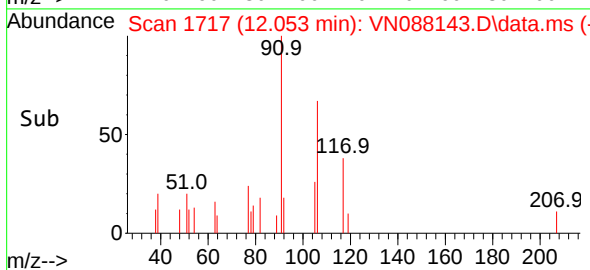
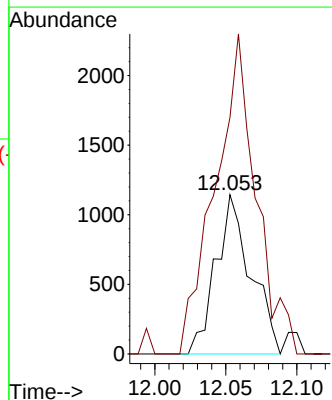
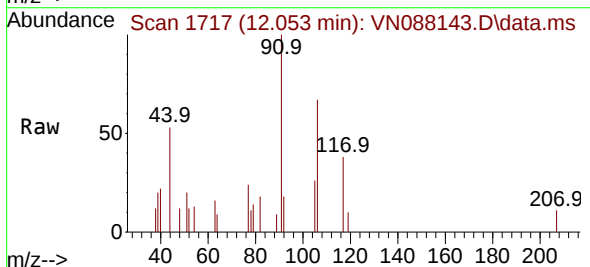
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

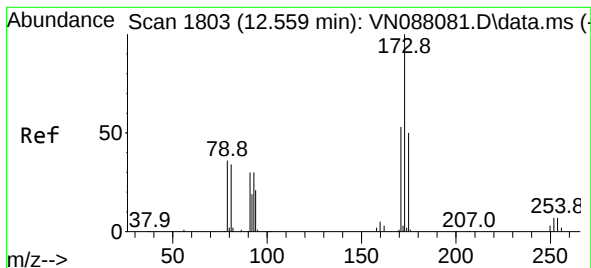
Tgt Ion:164 Resp: 1347
Ion Ratio Lower Upper
164 100
166 81.9 97.7 146.5#
129 76.9 85.9 128.9#
131 71.3 83.2 124.8#



#68
m/p-Xylenes
Concen: 0.261 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion:106 Resp: 1956
Ion Ratio Lower Upper
106 100
91 235.5 169.3 253.9





#71

Bromoform

Concen: 0.530 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

SOUTH-MAHWAH-WATER

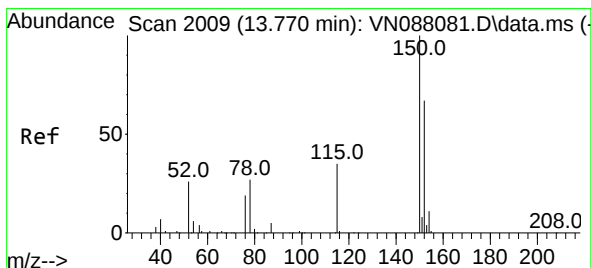
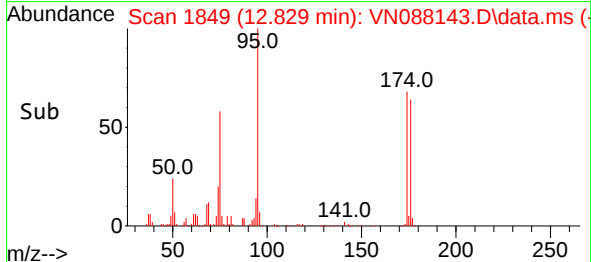
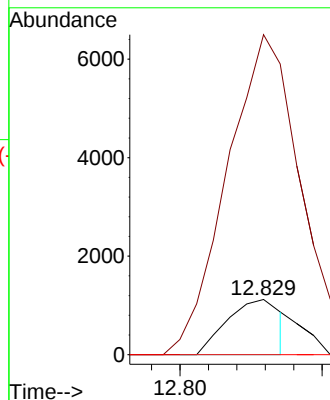
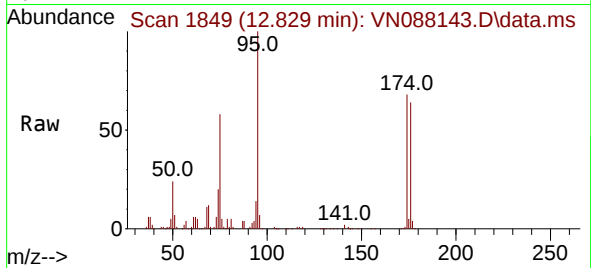
Tgt Ion:173 Resp: 1476

Ion Ratio Lower Upper

173 100

175 608.5 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

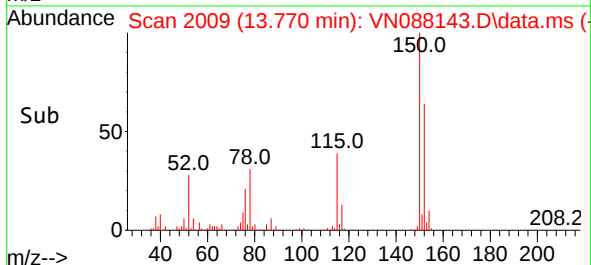
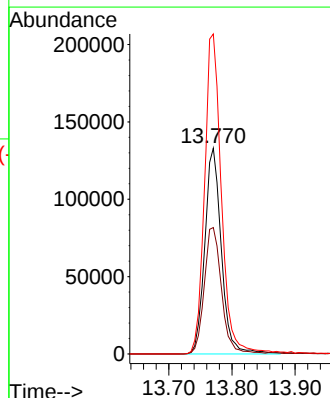
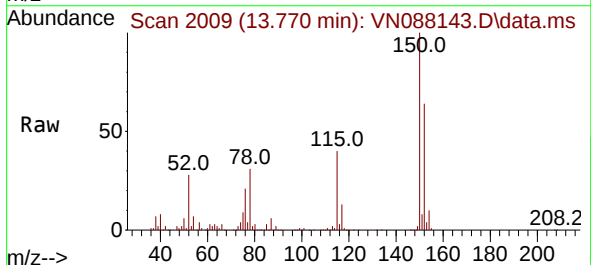
Tgt Ion:152 Resp: 242841

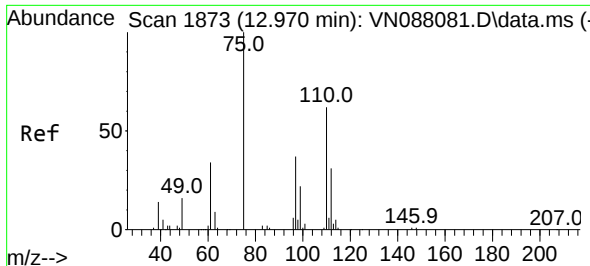
Ion Ratio Lower Upper

152 100

115 63.8 32.3 96.8

150 159.3 0.0 351.0

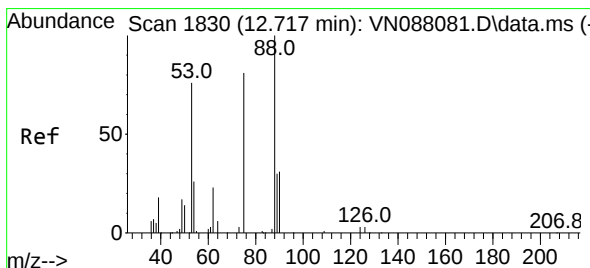
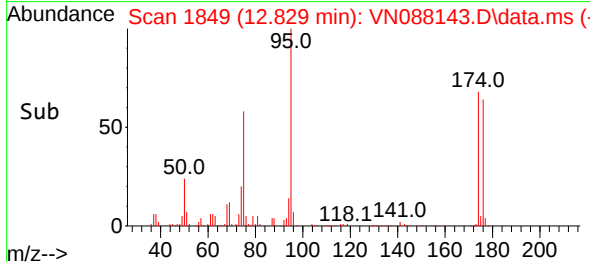
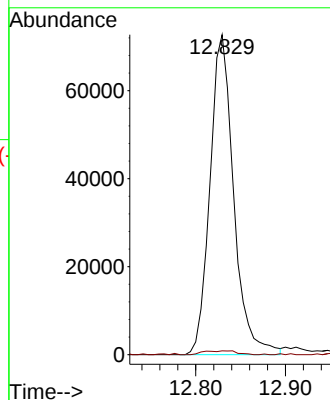
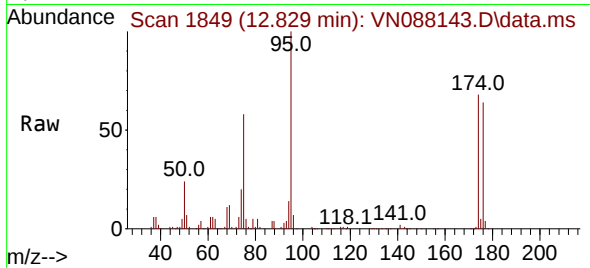




#76
1,2,3-Trichloropropane
Concen: 24.057 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

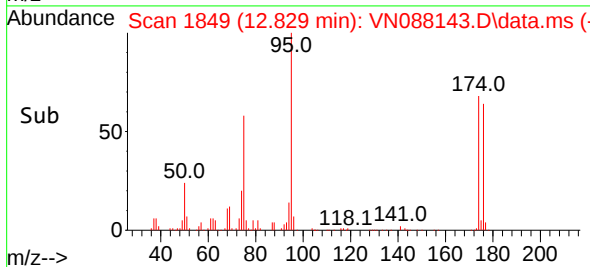
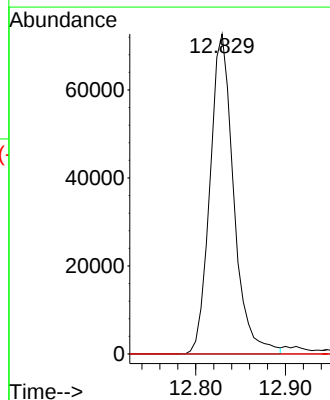
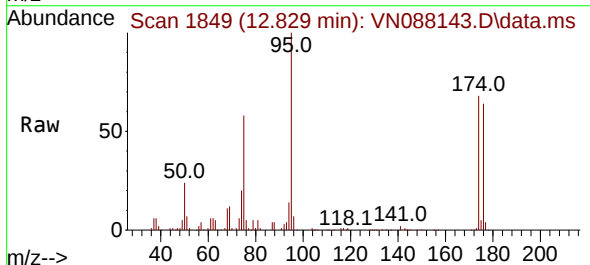
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

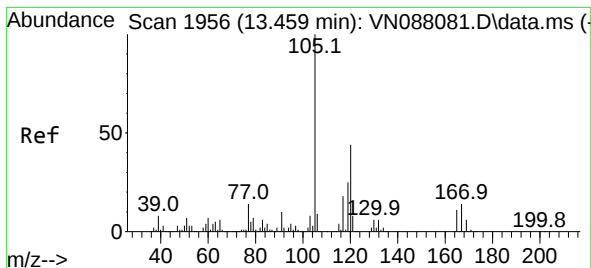
Tgt Ion: 75 Resp: 133566
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.107 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion: 75 Resp: 133566
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.295 ug/l

RT: 13.470 min Scan# 1956

Delta R.T. 0.012 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

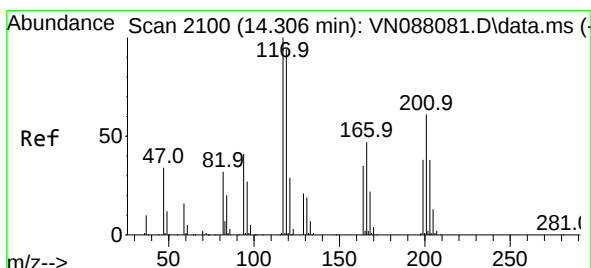
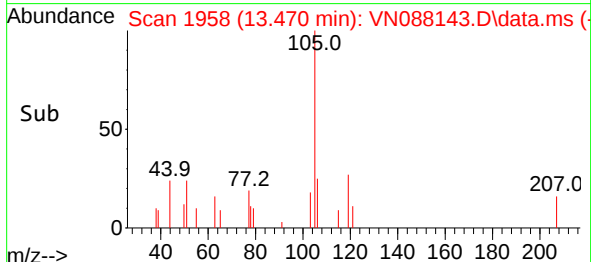
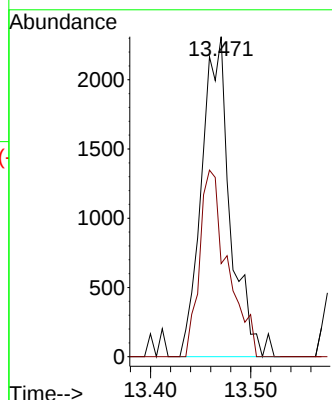
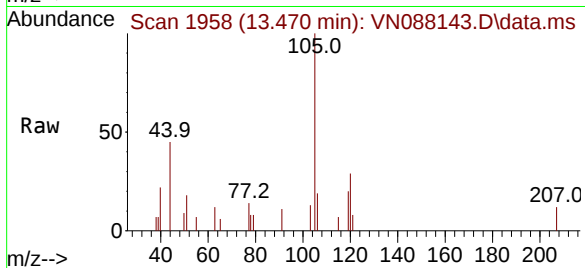
SOUTH-MAHWAH-WATER

Tgt Ion:105 Resp: 4591

Ion Ratio Lower Upper

105 100

120 56.8 22.0 66.0



#90

Hexachloroethane

Concen: 0.236 ug/l

RT: 14.312 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN088143.D

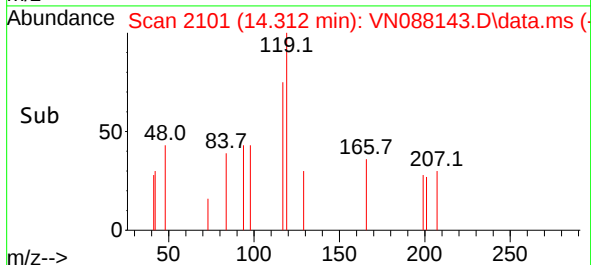
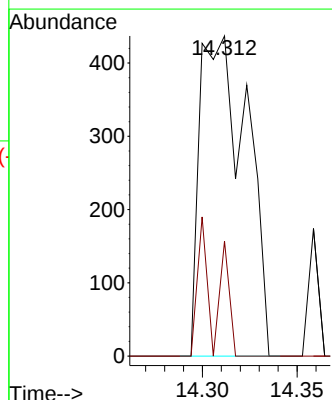
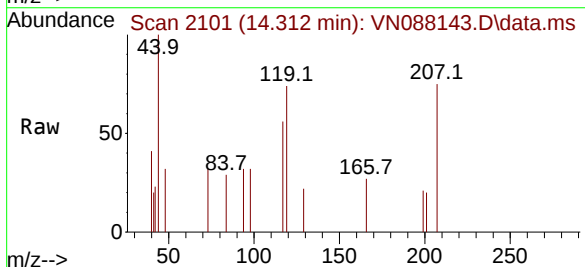
Acq: 28 Oct 2025 16:24

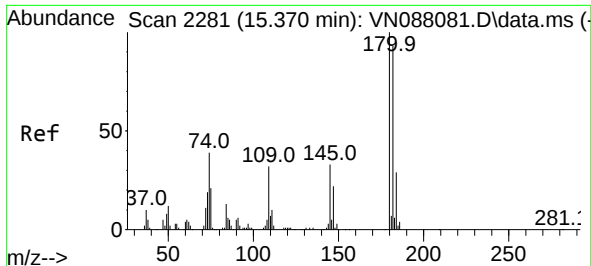
Tgt Ion:117 Resp: 749

Ion Ratio Lower Upper

117 100

201 16.3 29.1 87.4#

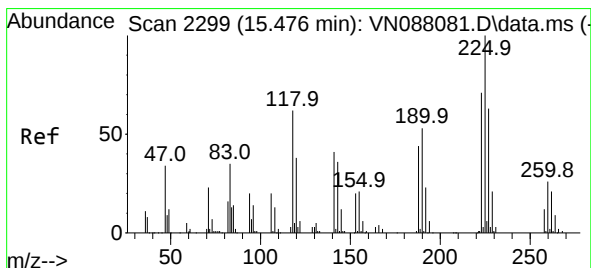
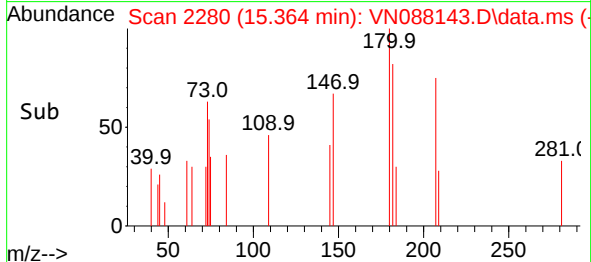
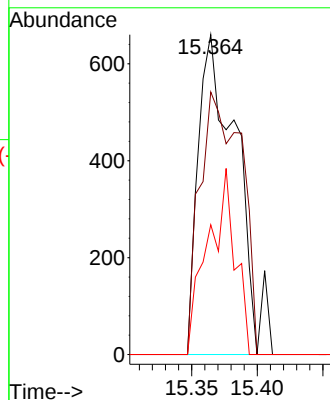
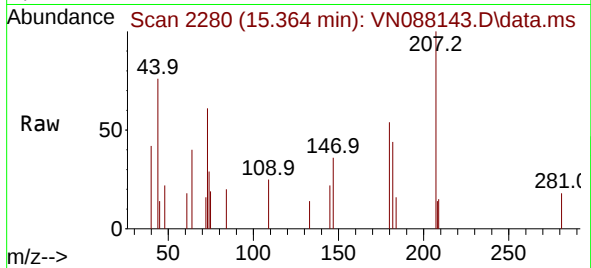




#93
1,2,4-Trichlorobenzene
Concen: 0.285 ug/l
RT: 15.364 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

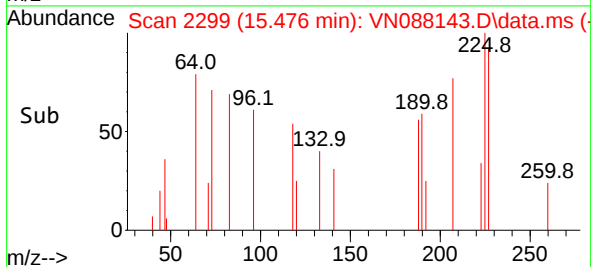
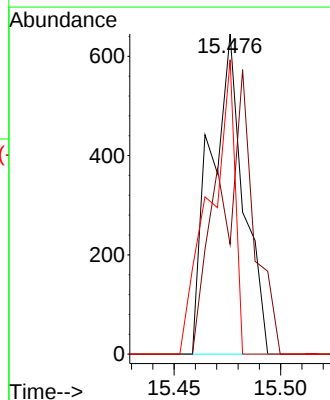
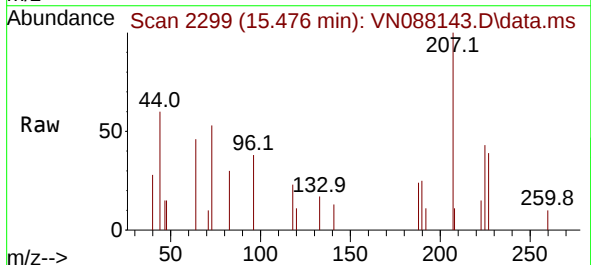
Instrument :
MSVOA_N
ClientSampleId :
SOUTH-MAHWAH-WATER

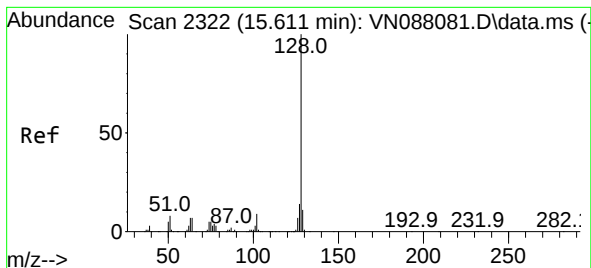
Tgt Ion:180 Resp: 1341
Ion Ratio Lower Upper
180 100
182 88.9 47.6 142.9
145 41.5 16.5 49.5



#94
Hexachlorobutadiene
Concen: 0.396 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088143.D
Acq: 28 Oct 2025 16:24

Tgt Ion:225 Resp: 694
Ion Ratio Lower Upper
225 100
223 88.0 32.0 96.2
227 70.0 32.1 96.5





#95

Naphthalene

Concen: 0.466 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN088143.D

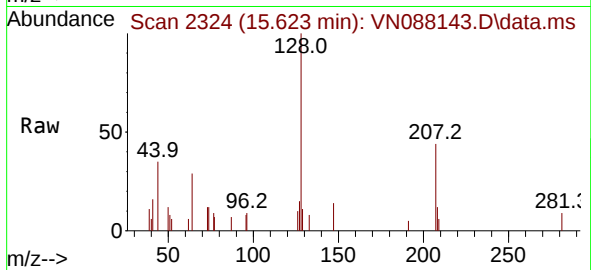
Acq: 28 Oct 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

SOUTH-MAHWAH-WATER



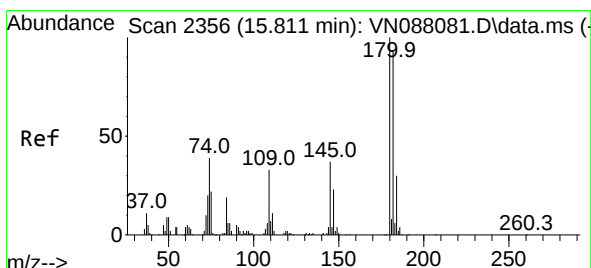
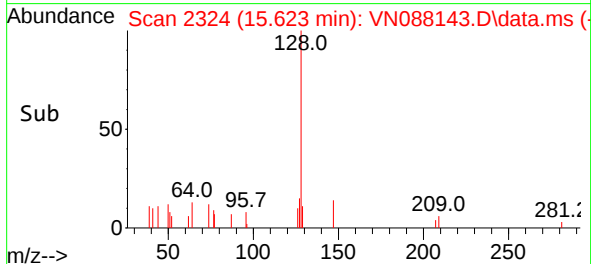
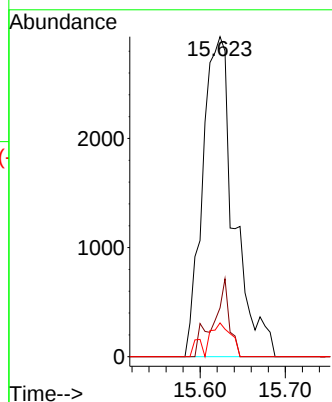
Tgt Ion:128 Resp: 7516

Ion Ratio Lower Upper

128 100

127 12.5 10.6 15.8

129 6.7 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.262 ug/l

RT: 15.817 min Scan# 2357

Delta R.T. 0.006 min

Lab File: VN088143.D

Acq: 28 Oct 2025 16:24

Tgt Ion:180 Resp: 1183

Ion Ratio Lower Upper

180 100

182 91.9 46.8 140.3

145 24.5 17.3 52.0

