

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087681.D
 Acq On : 28 Aug 2025 13:44
 Operator : JC\MD
 Sample : Q2971-37RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

Quant Time: Aug 29 03:17:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

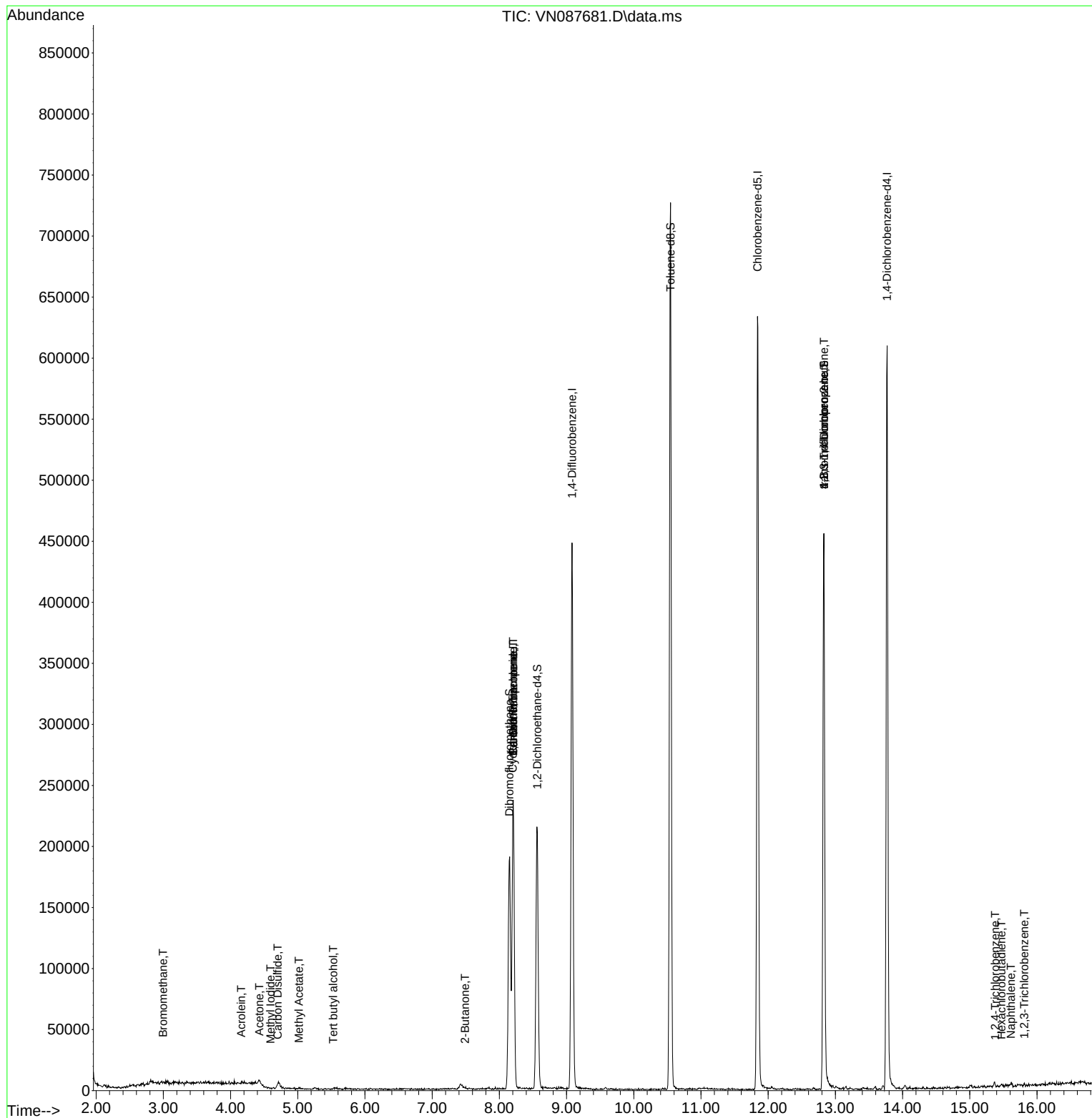
Internal Standards						
1) Pentafluorobenzene	8.206	168	159138	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	368471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	345953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	156362	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	179854	55.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 110.320%		
35) Dibromofluoromethane	8.147	113	136277	51.225	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 102.460%		
50) Toluene-d8	10.547	98	489797	49.190	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 98.380%		
62) 4-Bromofluorobenzene	12.829	95	159613	45.074	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 90.140%		
Target Compounds						Qvalue
5) Bromomethane	2.995	94	865	0.622	ug/l	83
10) Methyl Iodide	4.595	142	72	6.848	ug/l #	38
11) Tert butyl alcohol	5.530	59	253	0.447	ug/l #	71
13) Acrolein	4.159	56	224	0.322	ug/l	90
16) Acetone	4.430	43	6520	3.673	ug/l #	62
17) Carbon Disulfide	4.700	76	1942	0.307	ug/l #	74
18) Methyl Acetate	5.018	43	850	0.229	ug/l #	73
20) Methylene Chloride	5.247	84	301	Below Cal	#	61
25) 2-Butanone	7.488	43	1540	0.659	ug/l #	50
31) Cyclohexane	8.200	56	4504	1.098	ug/l #	19
36) 1,1-Dichloropropene	8.206	75	16148	3.957	ug/l #	52
38) Carbon Tetrachloride	8.206	117	19790	4.911	ug/l #	14
76) 1,2,3-Trichloropropane	12.829	75	94482	25.767	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	94482	68.215	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.376	180	928	0.278	ug/l #	63
94) Hexachlorobutadiene	15.470	225	242	0.203	ug/l #	17
95) Naphthalene	15.611	128	2778	0.235	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.811	180	957	0.293	ug/l #	56

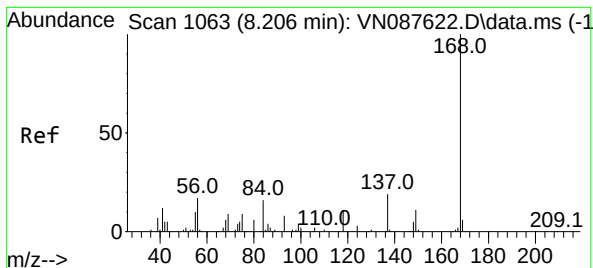
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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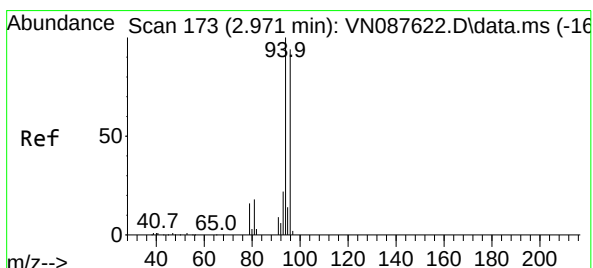
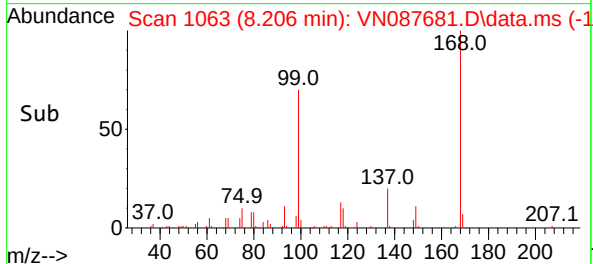
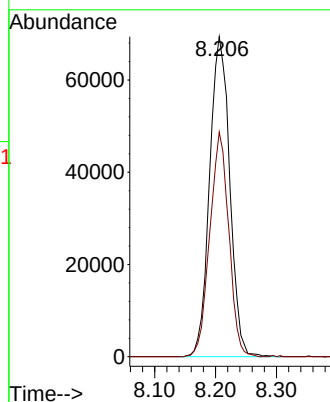
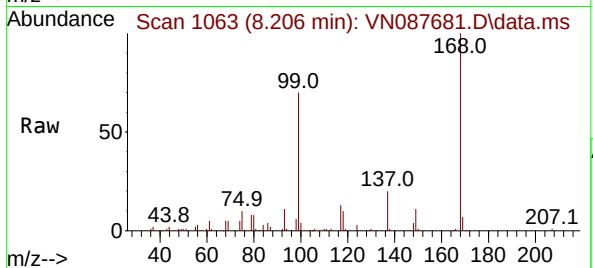




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

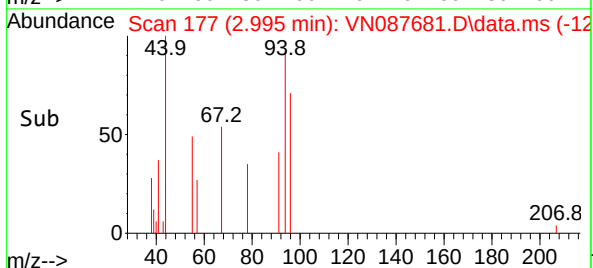
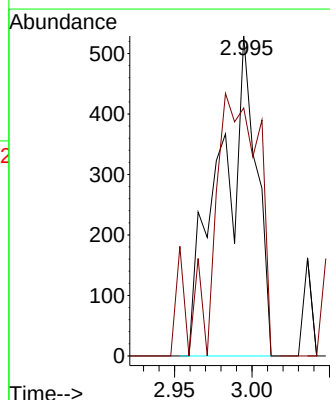
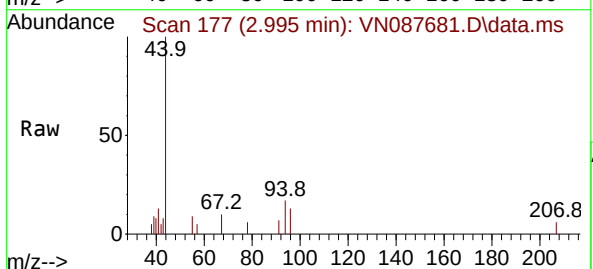
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

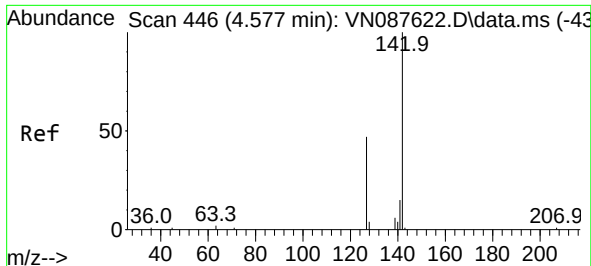
Tgt Ion:168 Resp: 159138
Ion Ratio Lower Upper
168 100
99 70.2 57.2 85.8



#5
Bromomethane
Concen: 0.622 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 94 Resp: 865
Ion Ratio Lower Upper
94 100
96 77.5 75.4 113.2

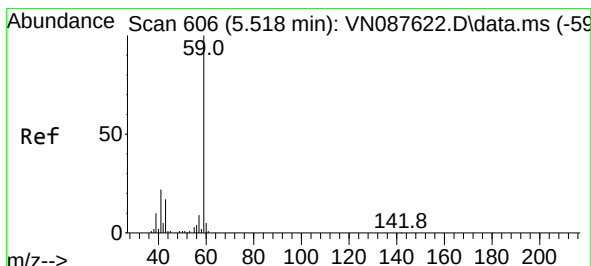
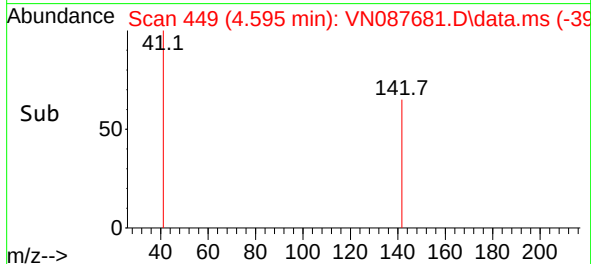
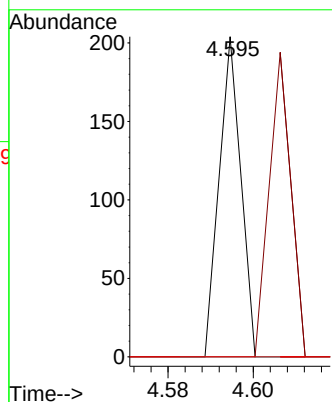
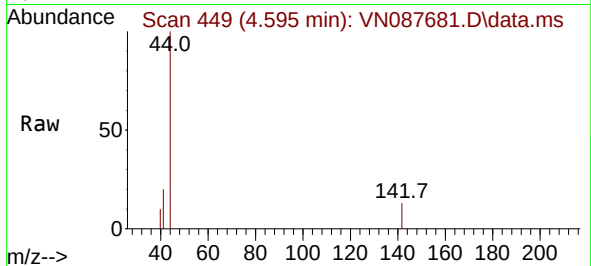




#10
Methyl Iodide
Concen: 6.848 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.018 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

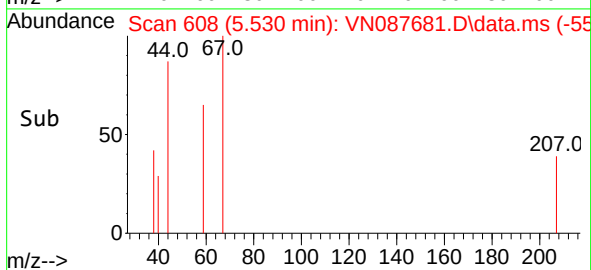
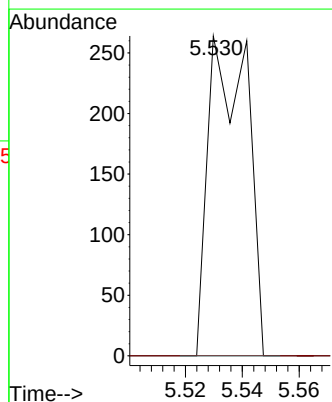
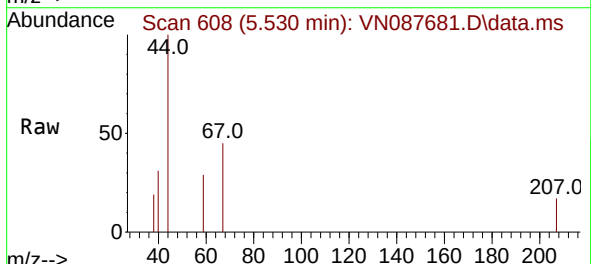
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

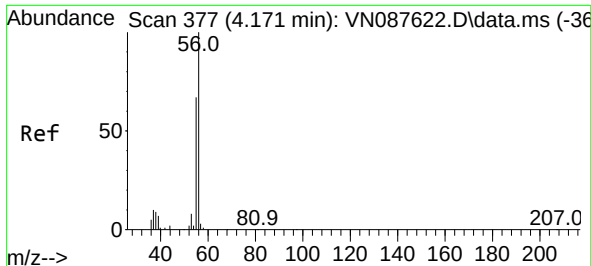
Tgt Ion:142 Resp: 72
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 0.447 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 59 Resp: 253
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

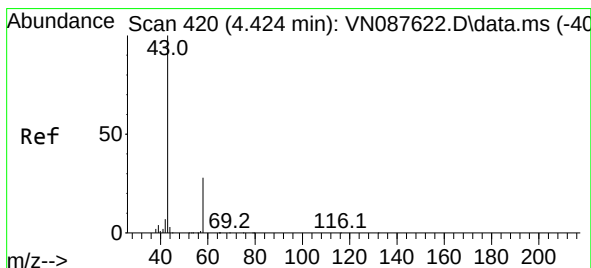
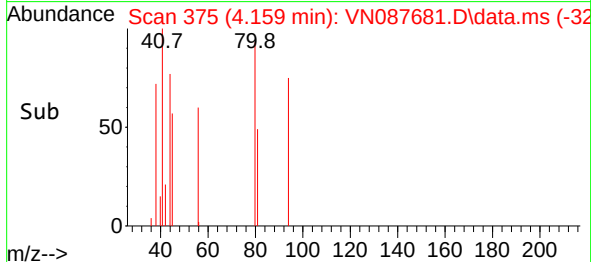
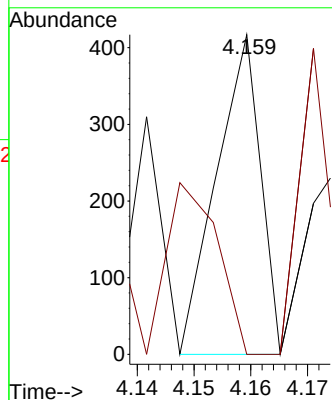
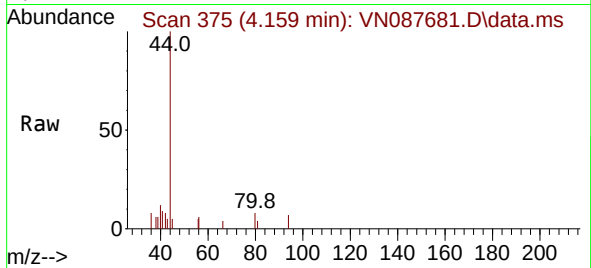




#13
Acrolein
Concen: 0.322 ug/l
RT: 4.159 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

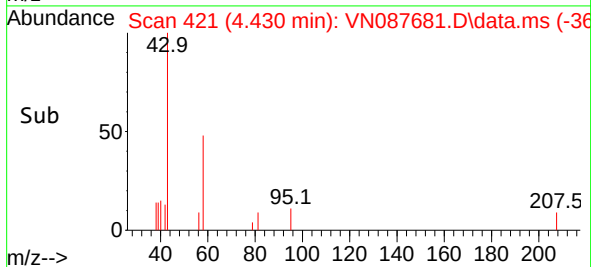
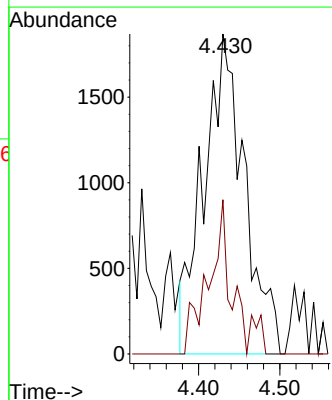
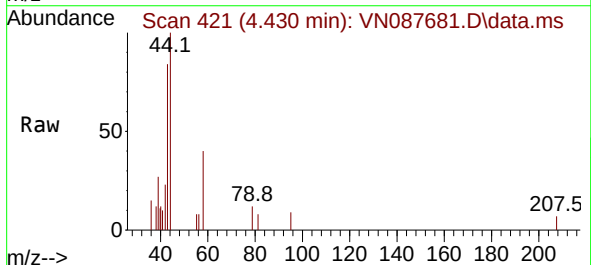
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

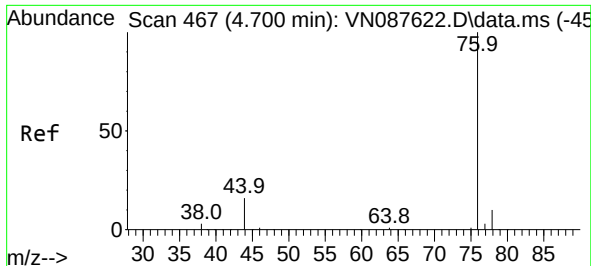
Tgt Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 62.9 57.3 85.9



#16
Acetone
Concen: 3.673 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 43 Resp: 6520
Ion Ratio Lower Upper
43 100
58 48.2 22.6 33.8#

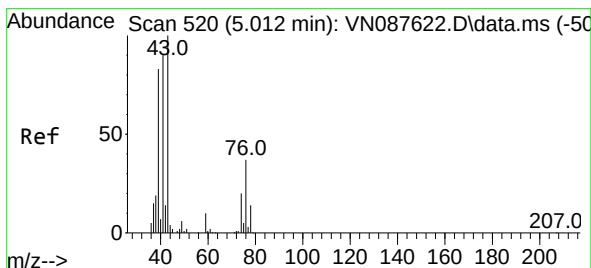
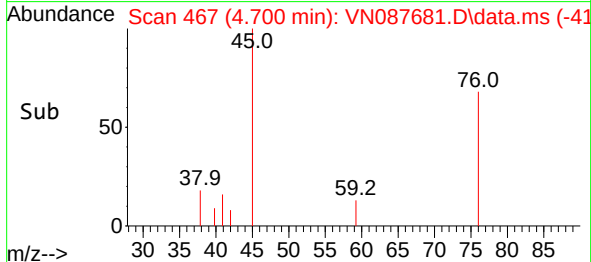
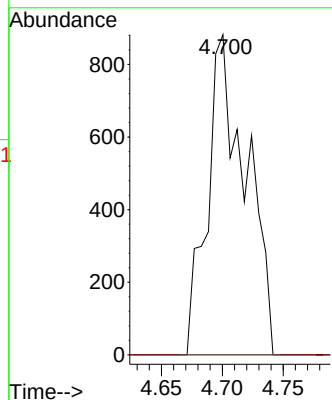
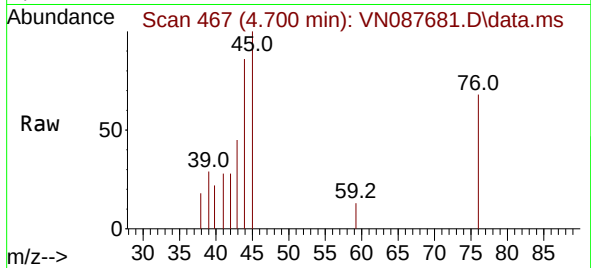




#17
Carbon Disulfide
Concen: 0.307 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

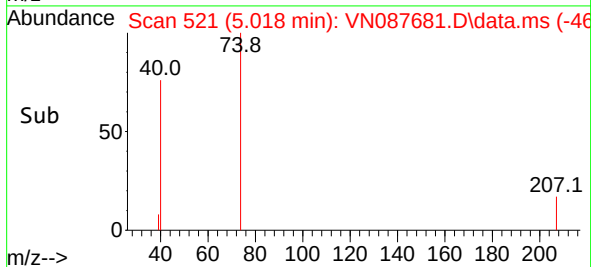
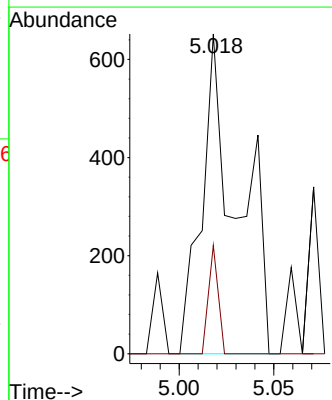
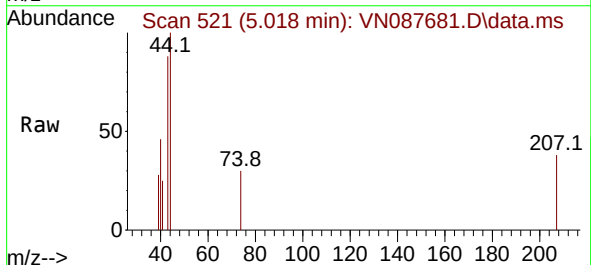
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

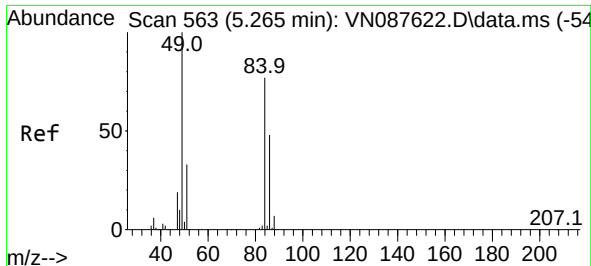
Tgt Ion: 76 Resp: 1942
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.229 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

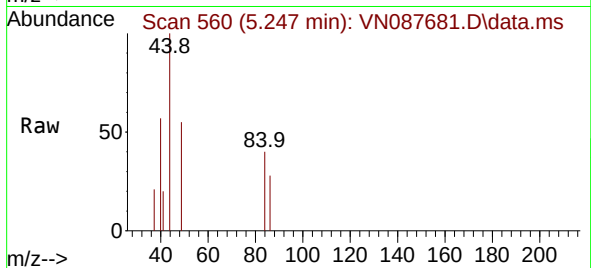
Tgt Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
74 9.2 17.6 26.4#



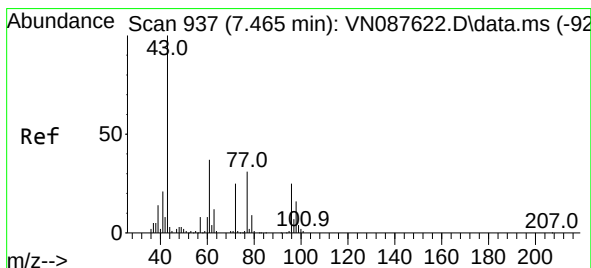
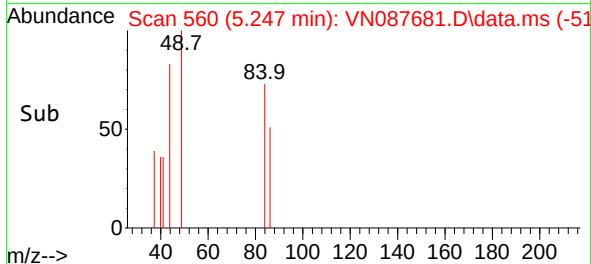
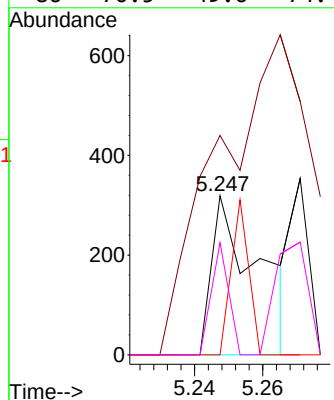


#20
Methylene Chloride
Concen: Below Cal
RT: 5.247 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

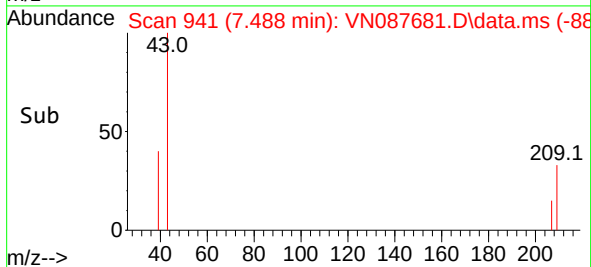
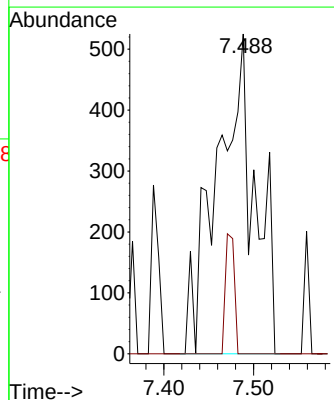
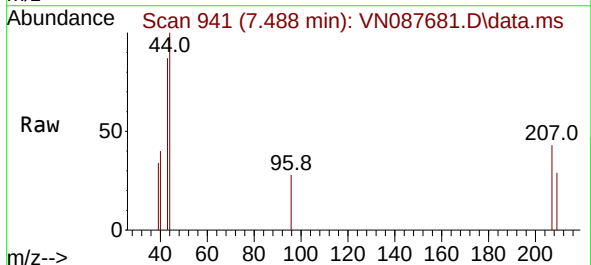


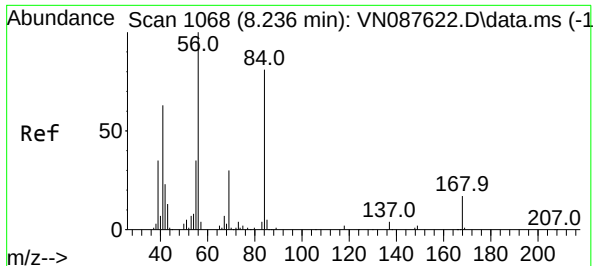
Tgt Ion: 84	Resp: 301
Ion Ratio	Lower Upper
84 100	
49 78.4	103.4 155.2#
51 0.0	33.8 50.8#
86 70.5	49.6 74.4



#25
2-Butanone
Concen: 0.659 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 43	Resp: 1540
Ion Ratio	Lower Upper
43 100	
72 0.0	19.9 29.9#

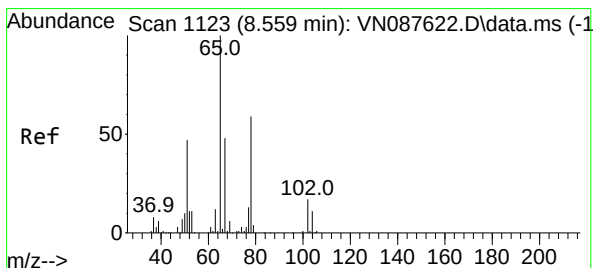
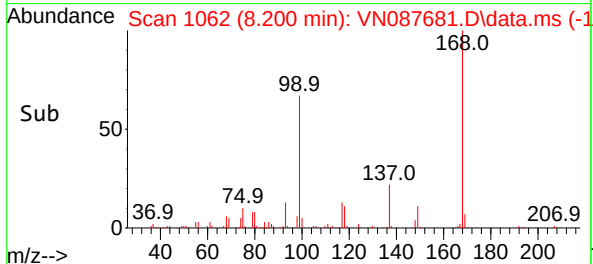
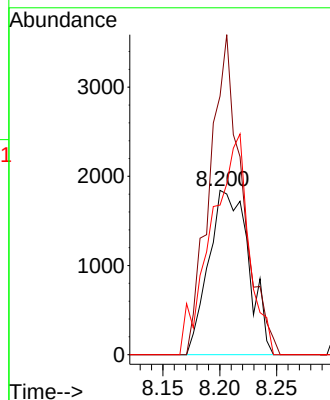
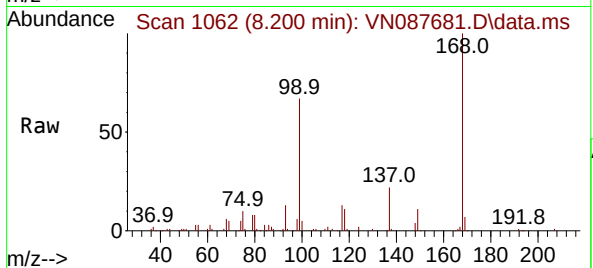




#31
Cyclohexane
Concen: 1.098 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

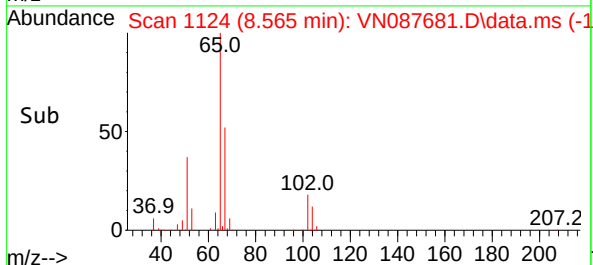
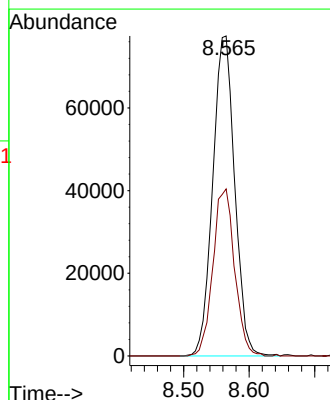
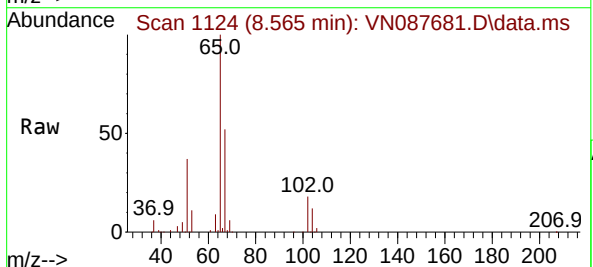
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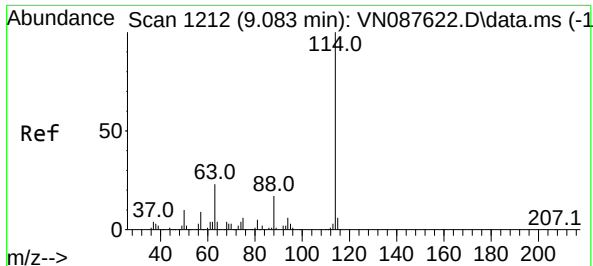
Tgt Ion: 56 Resp: 4504
Ion Ratio Lower Upper
56 100
69 157.4 23.7 35.5#
84 102.1 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 55.161 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 65 Resp: 179854
Ion Ratio Lower Upper
65 100
67 51.5 0.0 100.0

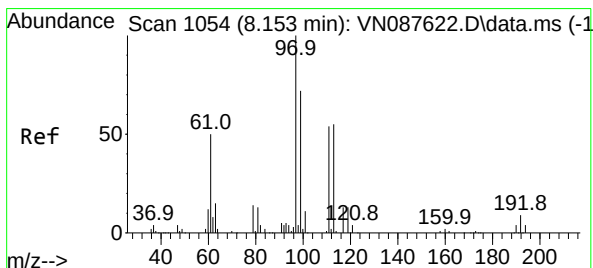
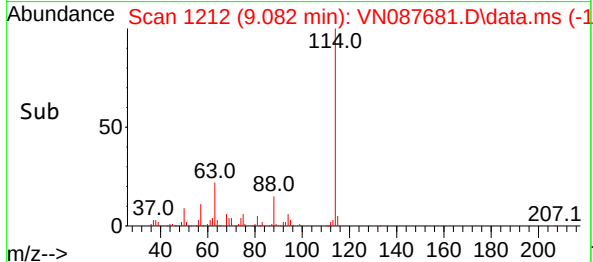
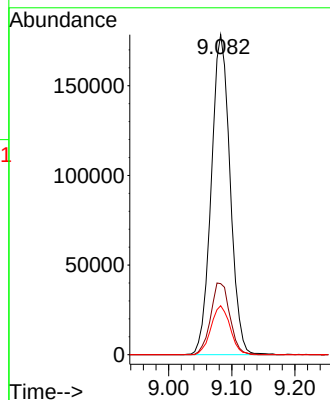
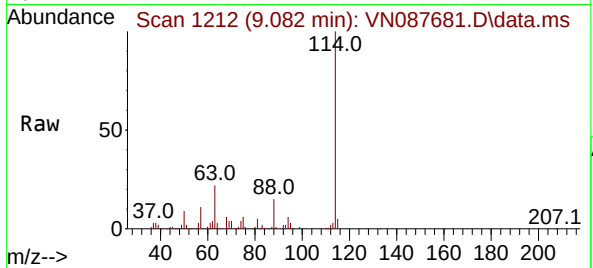




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

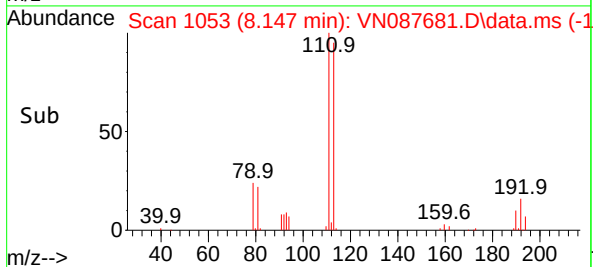
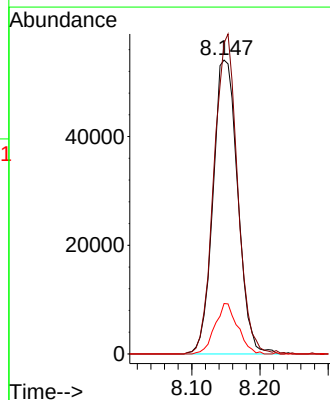
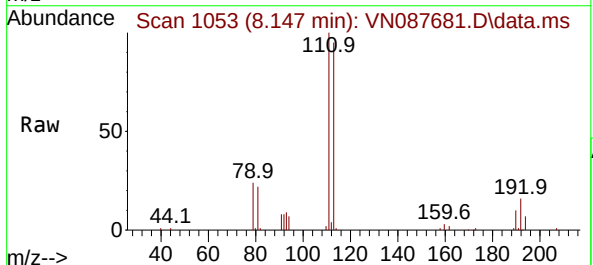
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

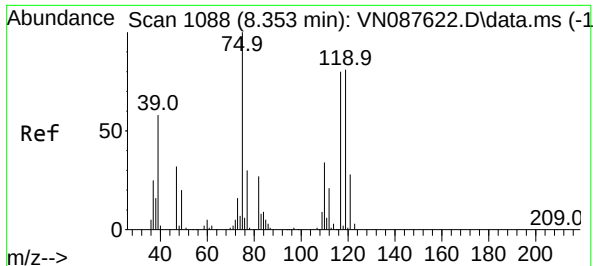
Tgt Ion:114 Resp: 368471
Ion Ratio Lower Upper
114 100
63 22.2 0.0 45.2
88 15.3 0.0 33.4



#35
Dibromofluoromethane
Concen: 51.225 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion:113 Resp: 136277
Ion Ratio Lower Upper
113 100
111 104.5 82.8 124.2
192 15.8 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.957 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087681.D

Acq: 28 Aug 2025 13:44

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

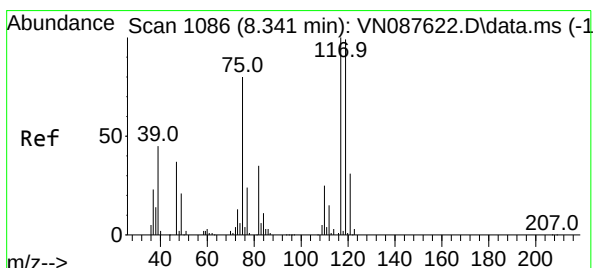
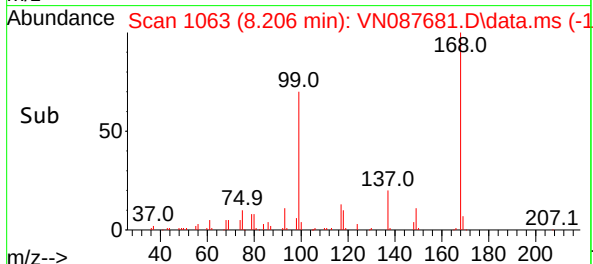
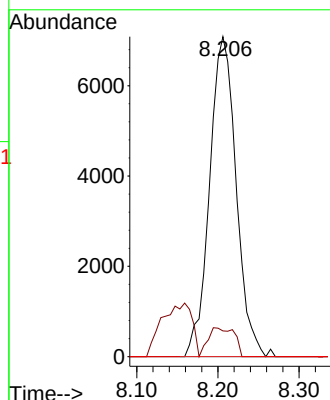
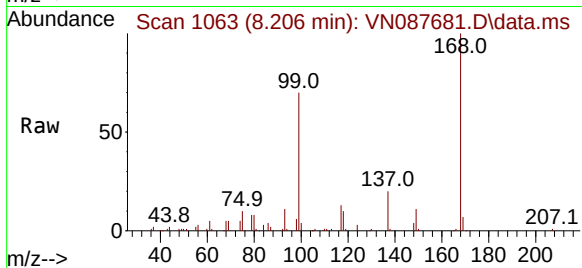
Tgt Ion: 75 Resp: 16148

Ion Ratio Lower Upper

75 100

110 8.9 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.911 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN087681.D

Acq: 28 Aug 2025 13:44

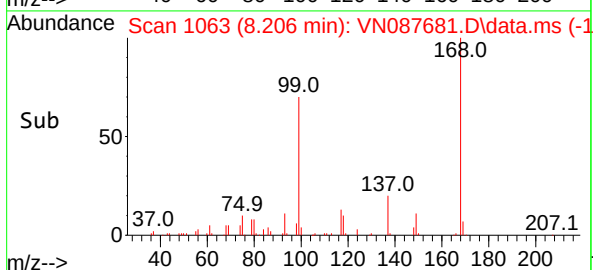
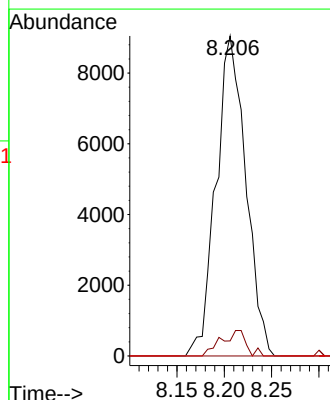
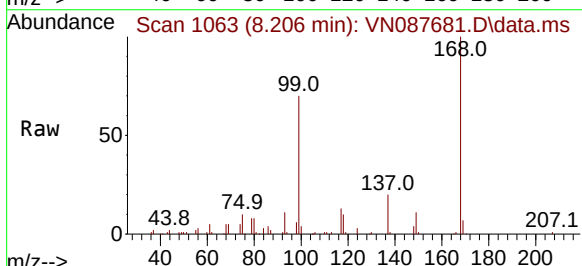
Tgt Ion: 117 Resp: 19790

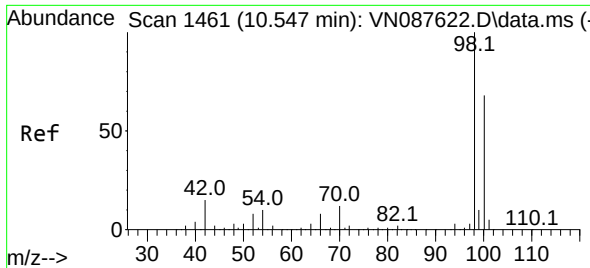
Ion Ratio Lower Upper

117 100

119 4.7 79.0 118.6#

121 0.0 25.0 37.6#

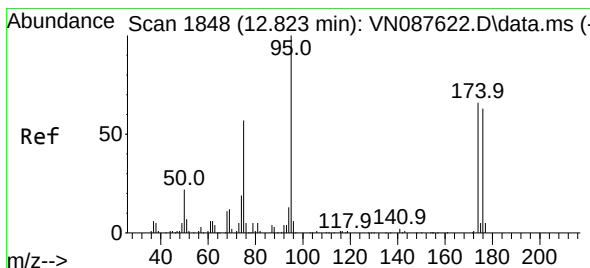
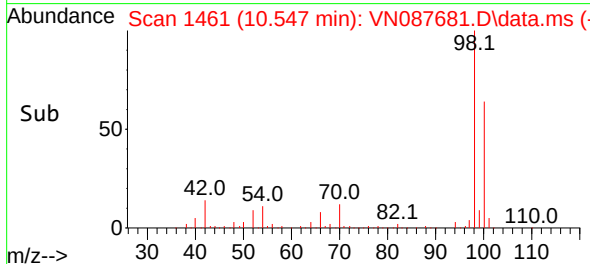
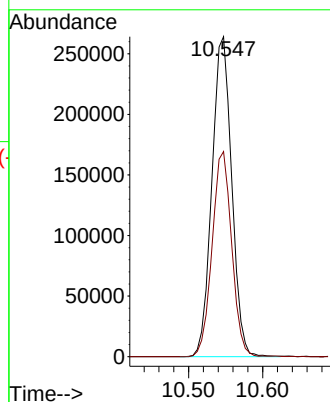
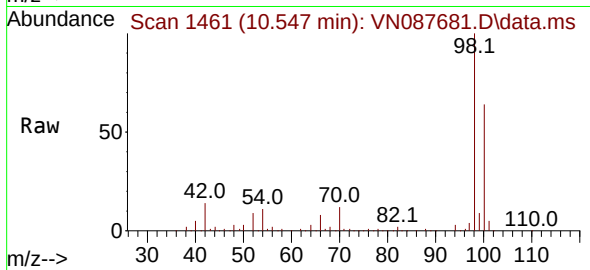




#50
Toluene-d8
Concen: 49.190 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

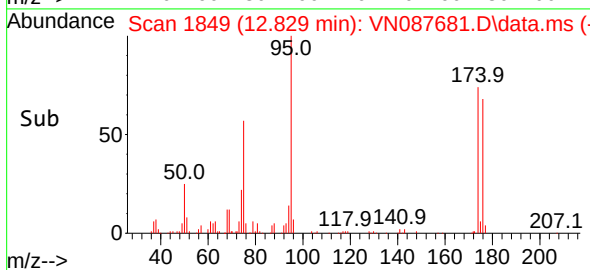
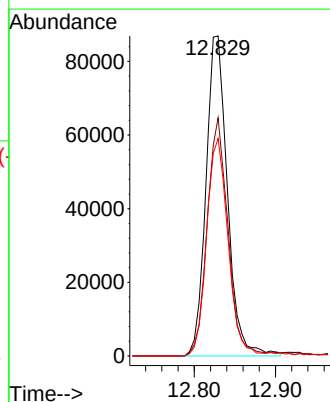
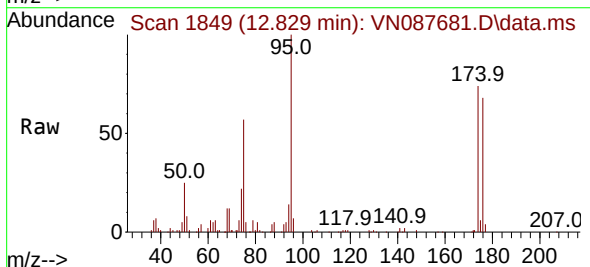
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

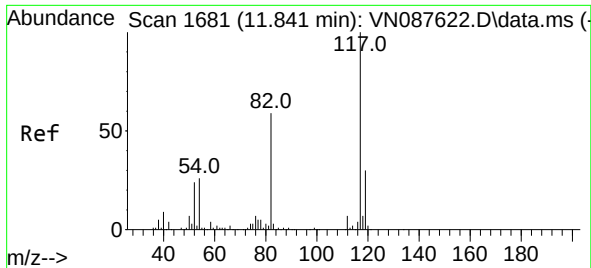
Tgt Ion: 98 Resp: 489797
Ion Ratio Lower Upper
98 100
100 63.5 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 45.074 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 95 Resp: 159613
Ion Ratio Lower Upper
95 100
174 71.8 0.0 138.4
176 67.6 0.0 132.6

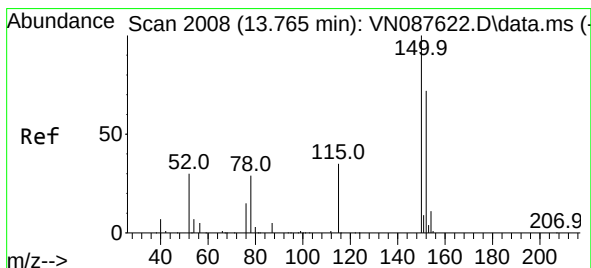
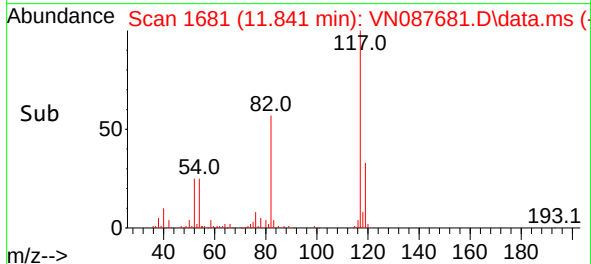
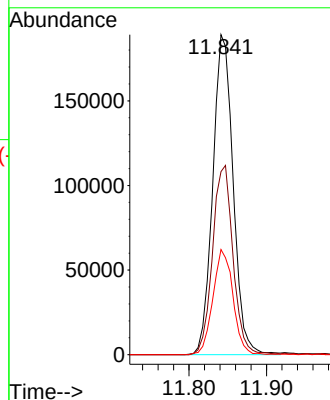
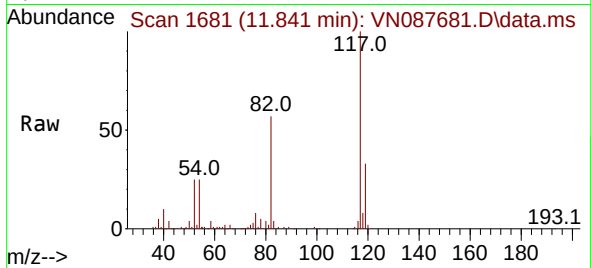




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

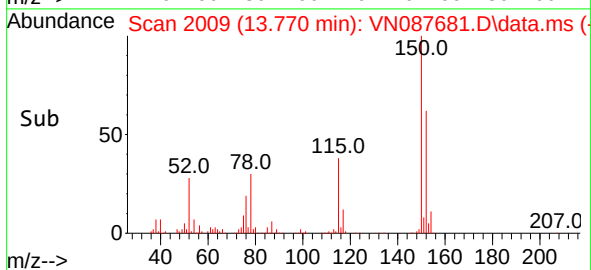
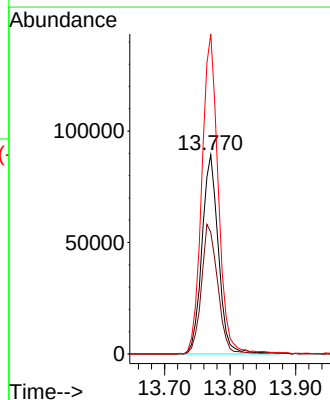
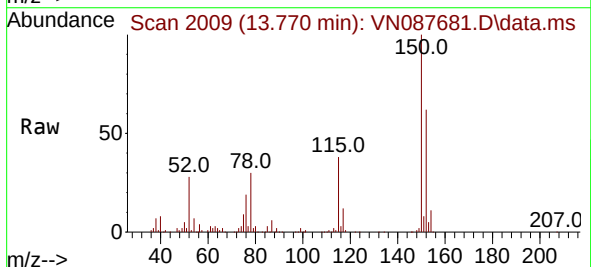
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

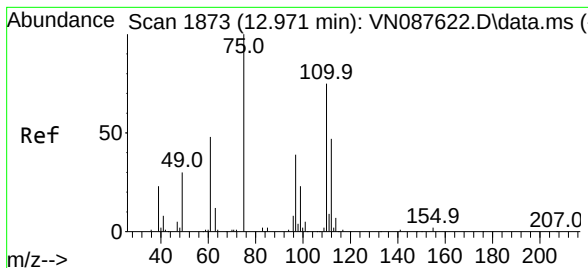
Tgt Ion:117 Resp: 345953
Ion Ratio Lower Upper
117 100
82 57.2 47.4 71.2
119 32.8 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion:152 Resp: 156362
Ion Ratio Lower Upper
152 100
115 64.5 32.3 96.8
150 161.0 0.0 351.0

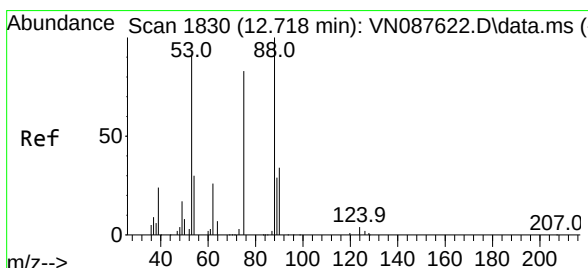
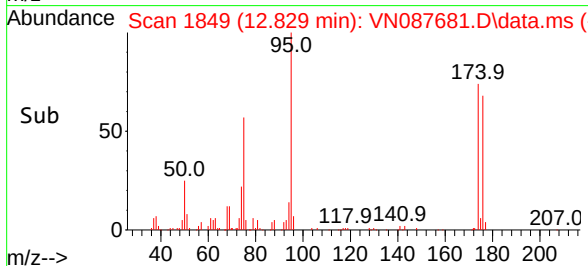
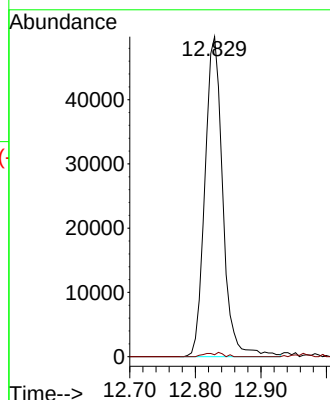
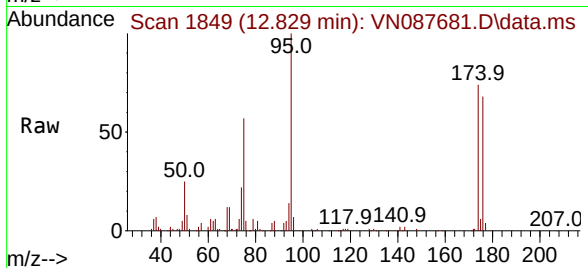




#76
1,2,3-Trichloropropane
Concen: 25.767 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

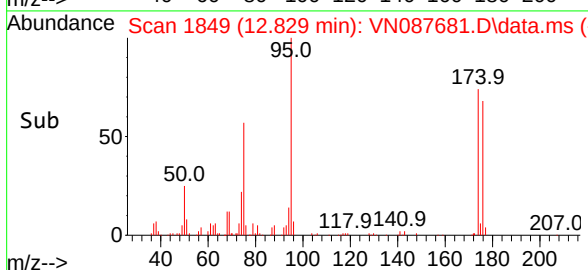
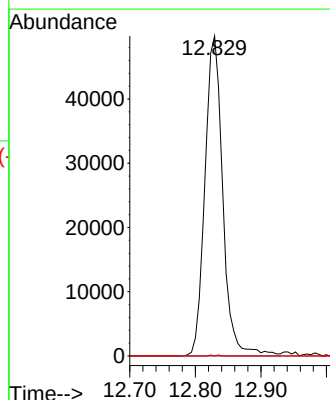
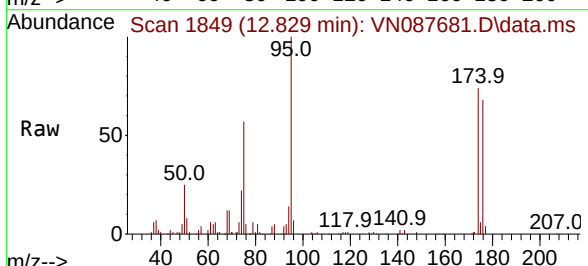
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

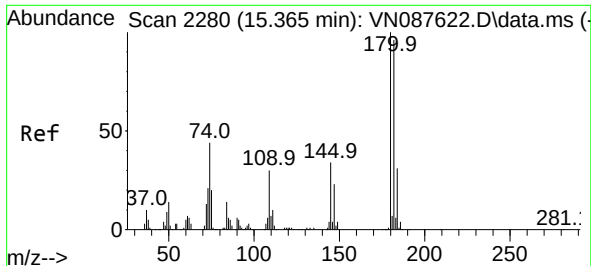
Tgt Ion: 75 Resp: 94482
Ion Ratio Lower Upper
75 100
77 0.7 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.215 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion: 75 Resp: 94482
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#

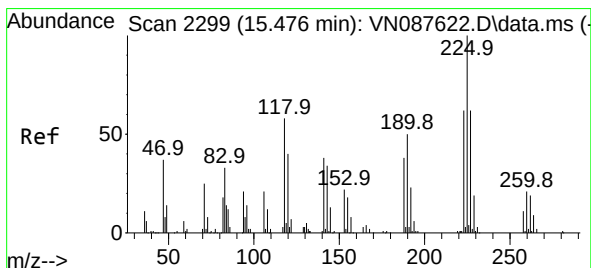
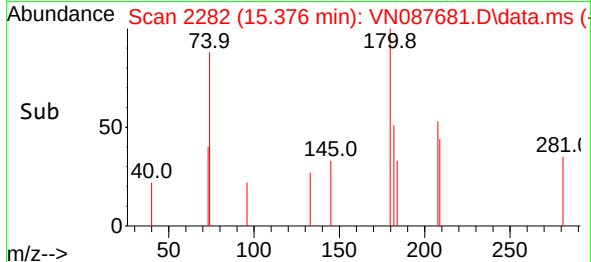
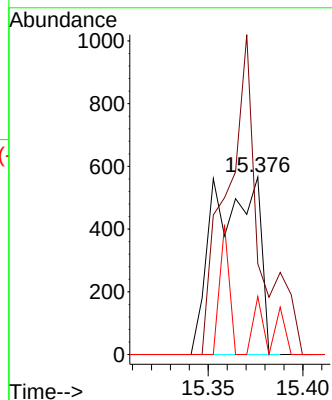
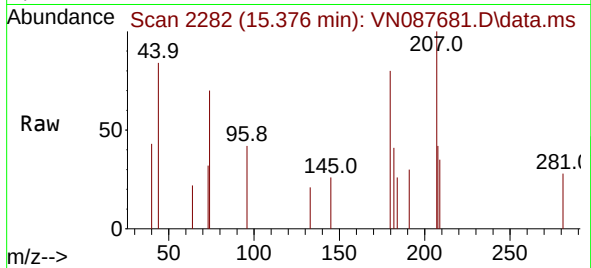




#93
1,2,4-Trichlorobenzene
Concen: 0.278 ug/l
RT: 15.376 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

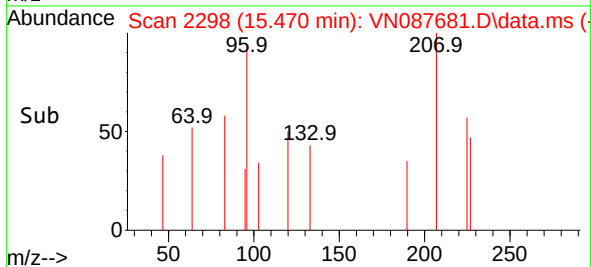
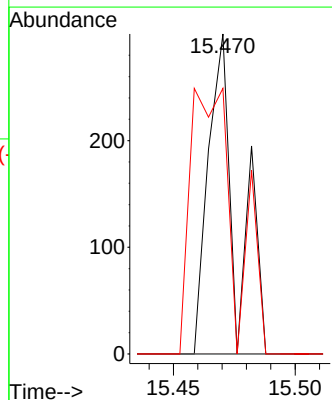
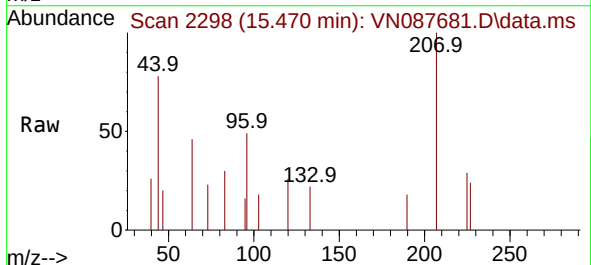
Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

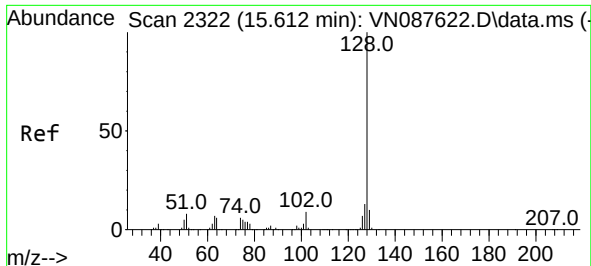
Tgt Ion:180 Resp: 928
Ion Ratio Lower Upper
180 100
182 132.1 47.6 142.9
145 12.8 16.5 49.5#



#94
Hexachlorobutadiene
Concen: 0.203 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion:225 Resp: 242
Ion Ratio Lower Upper
225 100
223 0.0 32.0 96.2#
227 130.2 32.1 96.5#

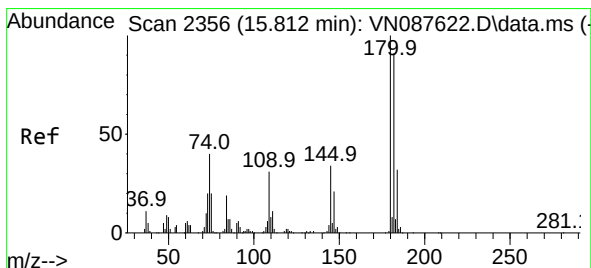
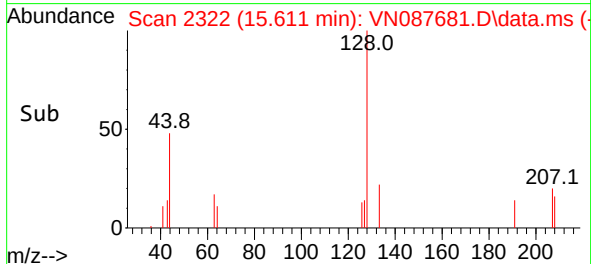
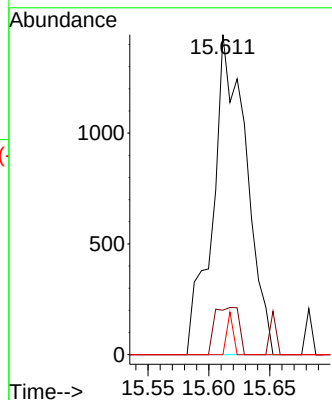
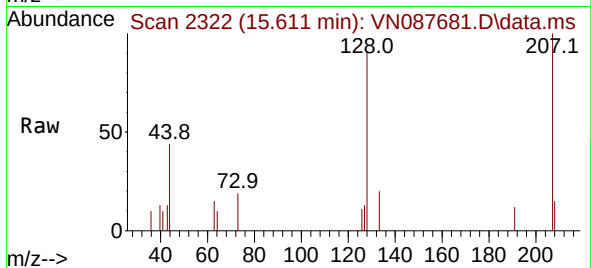




#95
Naphthalene
Concen: 0.235 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Instrument :
MSVOA_N
ClientSampleId :
GROUNDWATER

Tgt Ion:128 Resp: 2778
Ion Ratio Lower Upper
128 100
127 10.5 10.6 15.8#
129 2.4 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.293 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN087681.D
Acq: 28 Aug 2025 13:44

Tgt Ion:180 Resp: 957
Ion Ratio Lower Upper
180 100
182 51.3 46.8 140.3
145 8.9 17.3 52.0#

