

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102425\
 Data File : VN088092.D
 Acq On : 24 Oct 2025 14:37
 Operator : JC\MD
 Sample : Q3373-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Oct 25 01:05:42 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

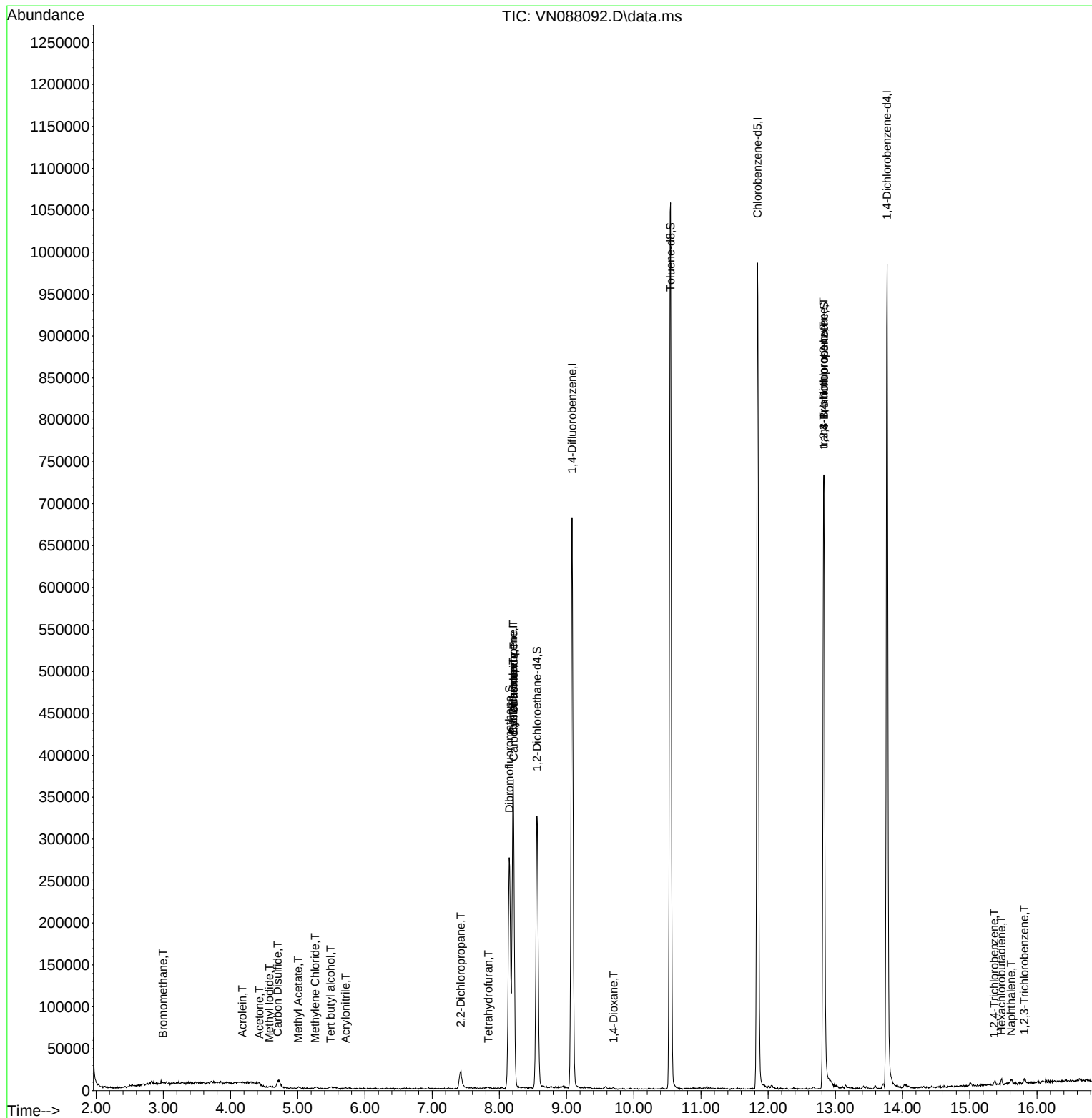
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	245209	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	553144	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	540772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258988	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	273052	64.396	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 128.800%#	
35) Dibromofluoromethane	8.147	113	198567	53.435	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.860%	
50) Toluene-d8	10.547	98	714108	49.873	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.740%	
62) 4-Bromofluorobenzene	12.829	95	283566	56.076	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 112.160%	
Target Compounds						Qvalue
5) Bromomethane	2.995	94	1330	0.627	ug/l	92
10) Methyl Iodide	4.577	142	276	4.299	ug/l #	80
11) Tert butyl alcohol	5.489	59	1835	2.512	ug/l #	71
13) Acrolein	4.177	56	623	0.758	ug/l #	51
15) Acrylonitrile	5.712	53	981	0.493	ug/l #	32
16) Acetone	4.430	43	5563	2.611	ug/l #	84
17) Carbon Disulfide	4.700	76	4016	0.429	ug/l #	74
18) Methyl Acetate	5.006	43	1010	0.232	ug/l #	54
20) Methylene Chloride	5.259	84	648	0.965	ug/l #	75
26) 2,2-Dichloropropane	7.424	77	1322	0.231	ug/l #	54
29) Tetrahydrofuran	7.835	42	564	0.308	ug/l #	43
31) Cyclohexane	8.206	56	8258	1.391	ug/l #	57
36) 1,1-Dichloropropene	8.206	75	24885	4.586	ug/l #	52
38) Carbon Tetrachloride	8.212	117	28604	5.104	ug/l #	15
49) 1,4-Dioxane	9.700	88	945	15.296	ug/l #	21
76) 1,2,3-Trichloropropane	12.823	75	158205	26.718	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	158205	74.531	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.364	180	1695	0.338	ug/l	94
94) Hexachlorobutadiene	15.470	225	1261	0.675	ug/l	92
95) Naphthalene	15.617	128	5972	0.347	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.811	180	2103	0.437	ug/l	94

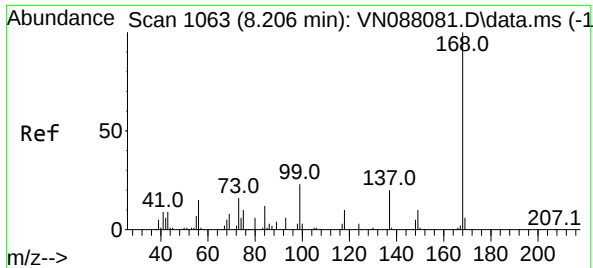
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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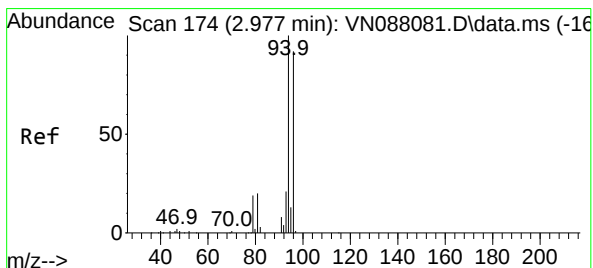
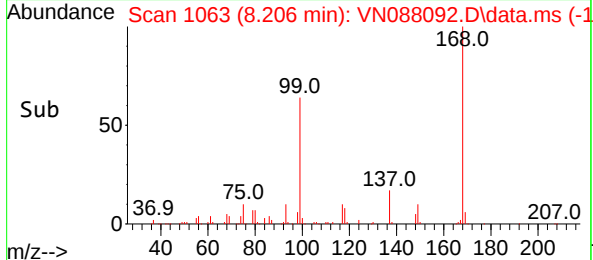
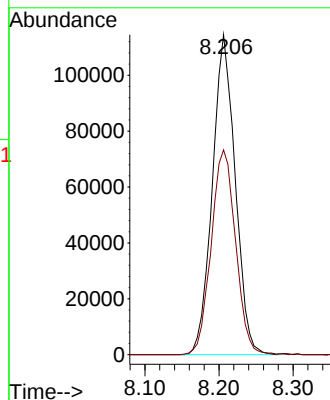
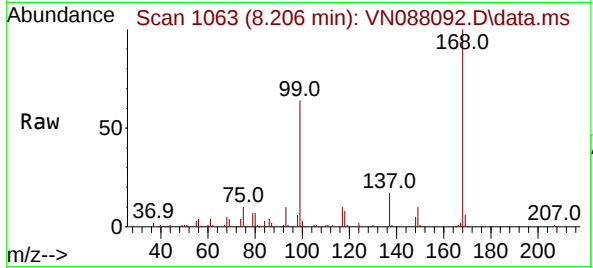




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

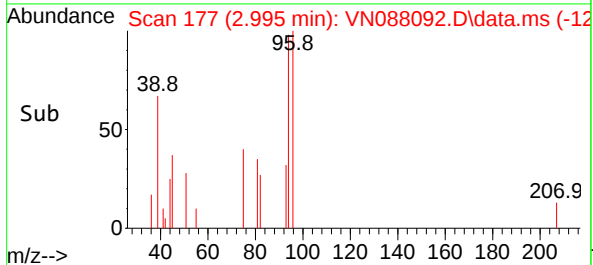
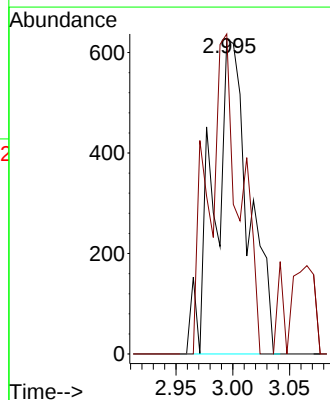
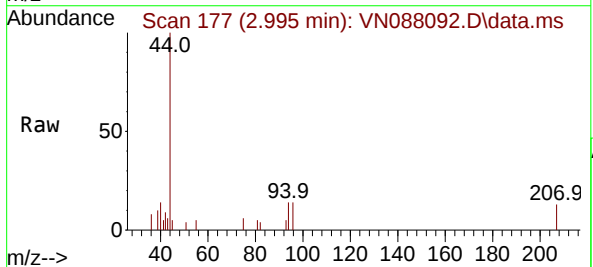
Instrument :
MSVOA_N
ClientSampleId :
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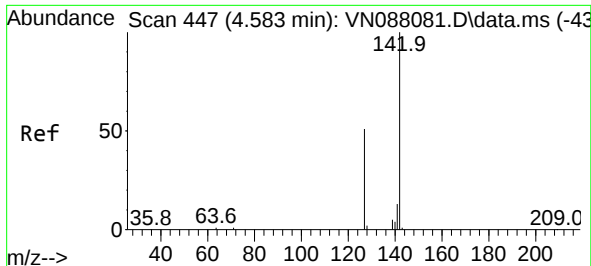
Tgt Ion:168 Resp: 245209
Ion Ratio Lower Upper
168 100
99 64.0 57.2 85.8



#5
Bromomethane
Concen: 0.627 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 94 Resp: 1330
Ion Ratio Lower Upper
94 100
96 101.6 75.4 113.2

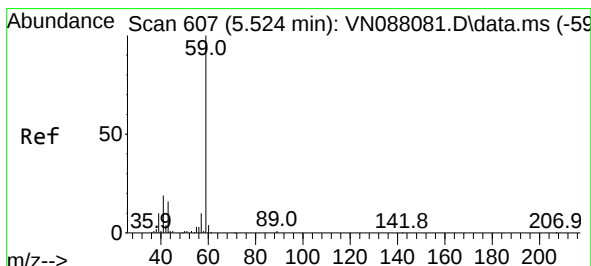
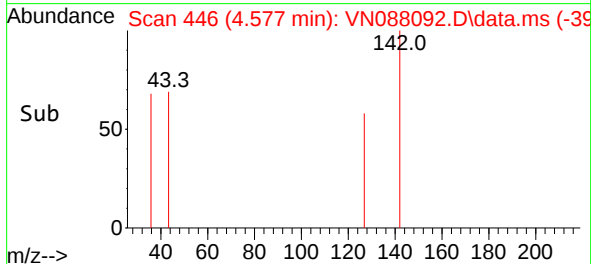
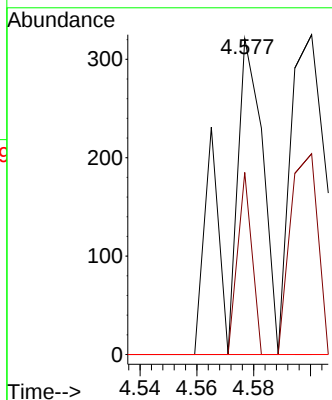
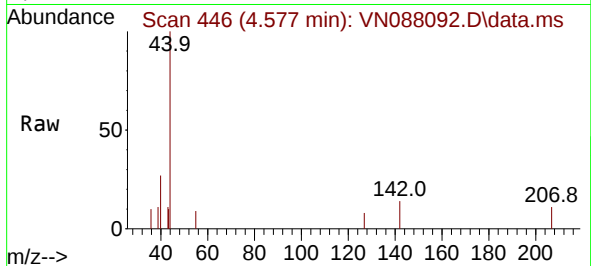




#10
Methyl Iodide
Concen: 4.299 ug/l
RT: 4.577 min Scan# 447
Delta R.T. -0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

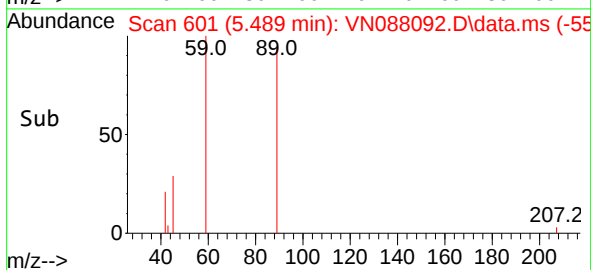
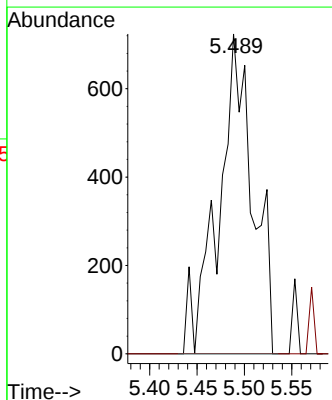
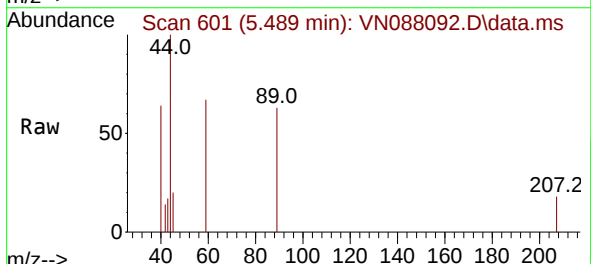
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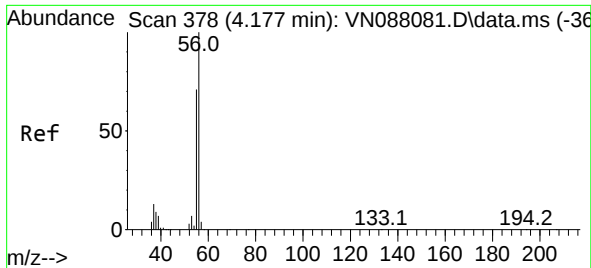
Tgt Ion:142 Resp: 276
Ion Ratio Lower Upper
142 100
127 57.6 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 2.512 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.030 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 59 Resp: 1835
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

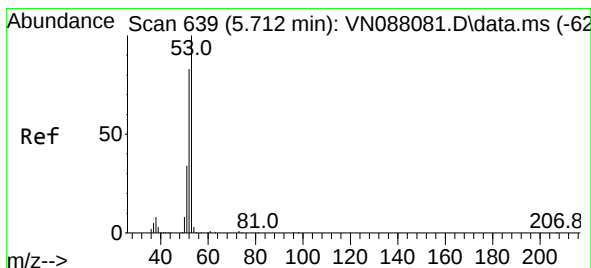
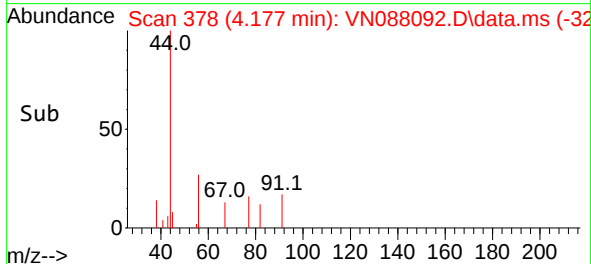
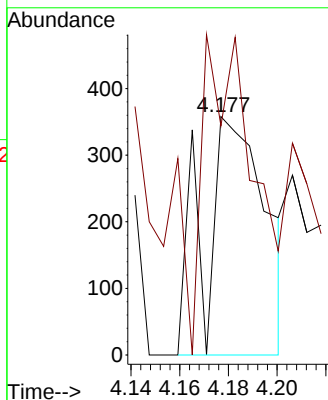
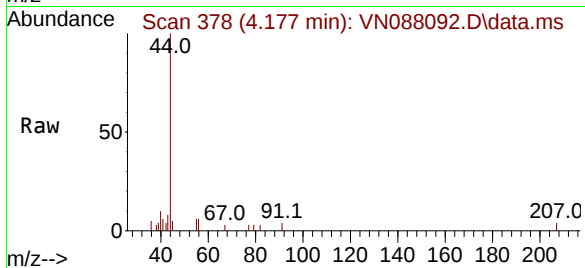




#13
Acrolein
Concen: 0.758 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

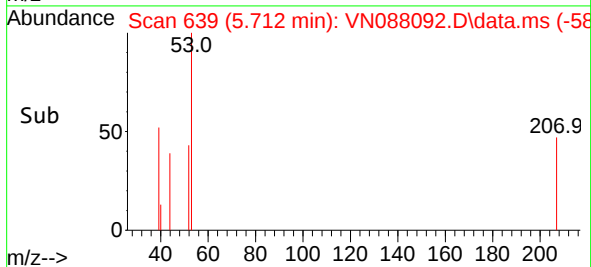
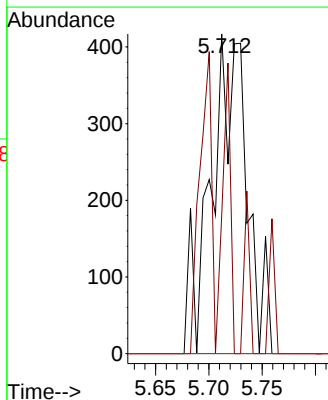
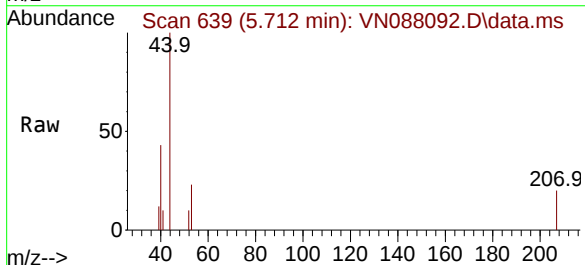
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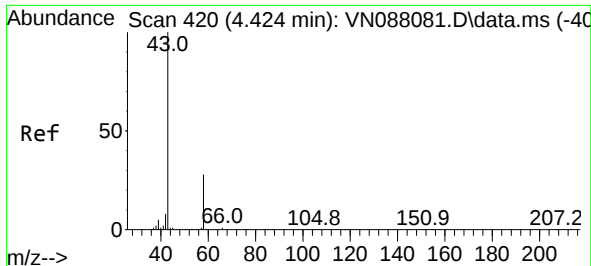
Tgt Ion: 56 Resp: 623
Ion Ratio Lower Upper
56 100
55 112.0 57.3 85.9#



#15
Acrylonitrile
Concen: 0.493 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 53 Resp: 981
Ion Ratio Lower Upper
53 100
52 20.2 67.6 101.4#
51 0.0 30.1 45.1#

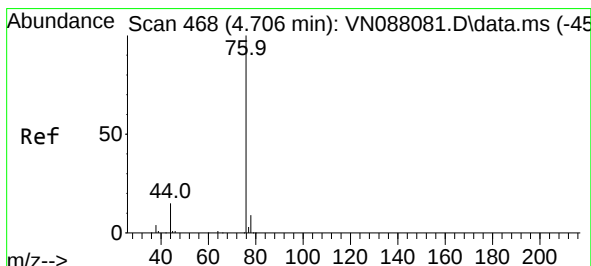
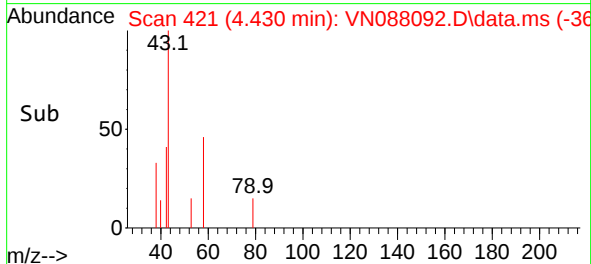
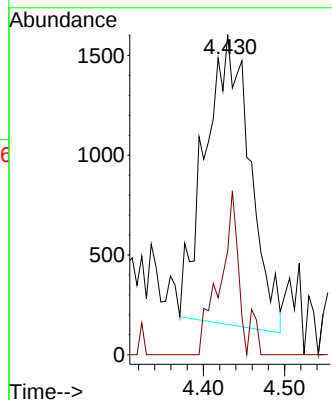
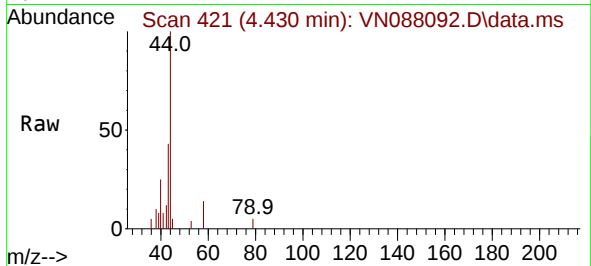




#16
Acetone
Concen: 2.611 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

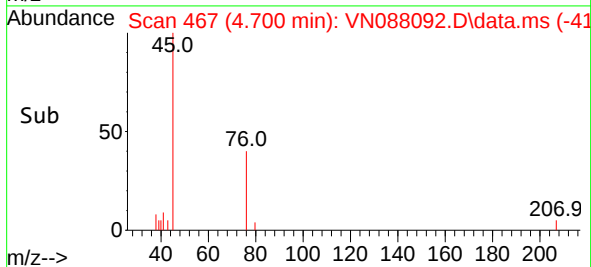
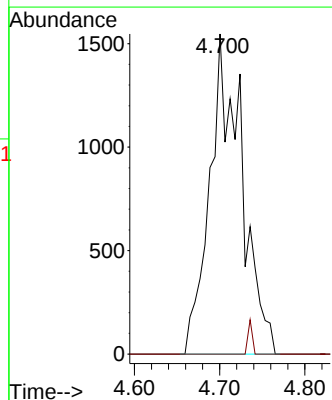
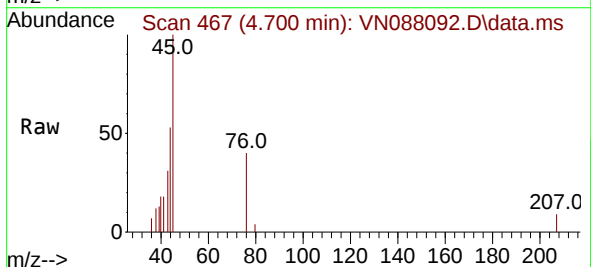
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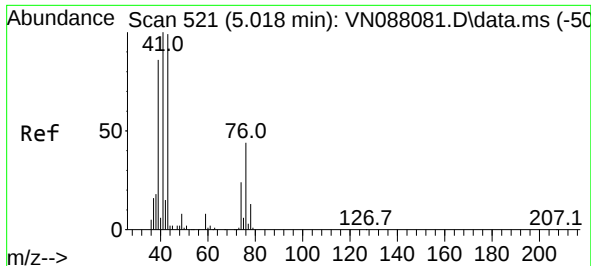
Tgt Ion: 43 Resp: 5563
Ion Ratio Lower Upper
43 100
58 36.8 22.6 33.8#



#17
Carbon Disulfide
Concen: 0.429 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 76 Resp: 4016
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

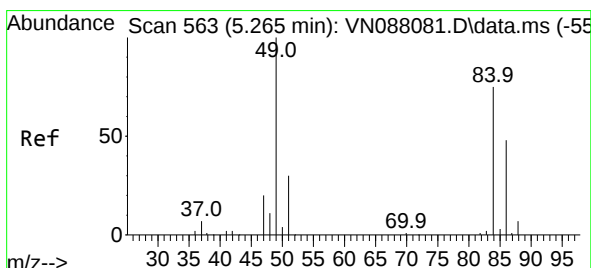
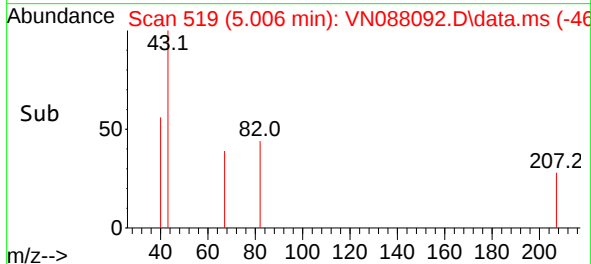
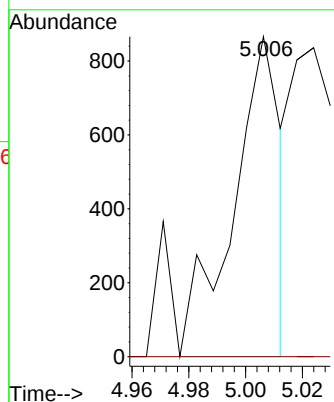
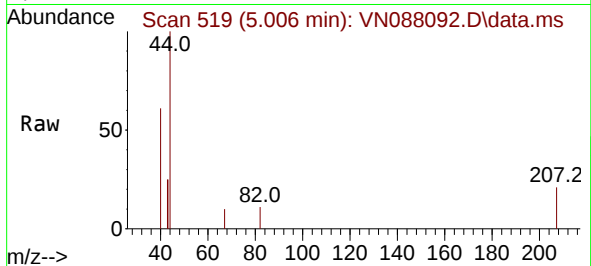




#18
Methyl Acetate
Concen: 0.232 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

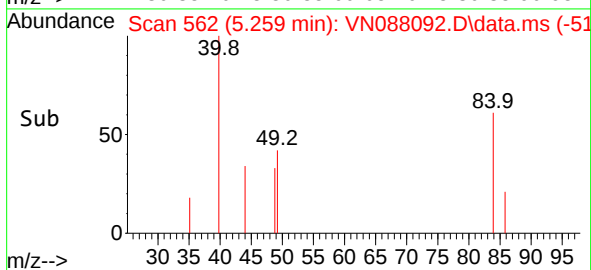
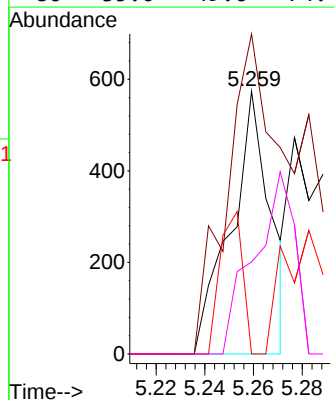
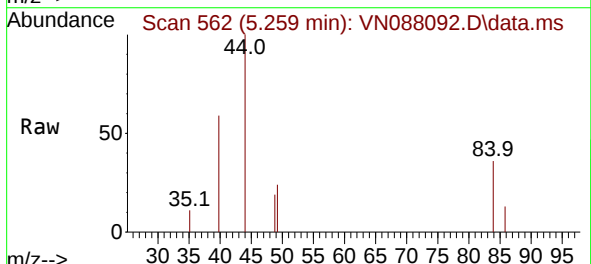
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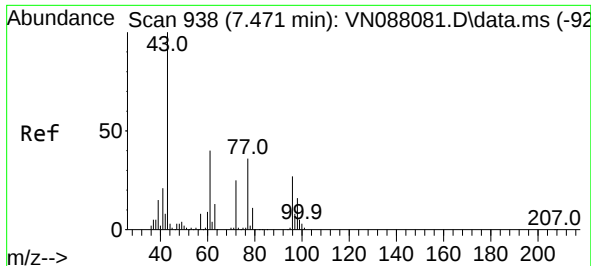
Tgt Ion: 43 Resp: 1010
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.965 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 84 Resp: 648
Ion Ratio Lower Upper
84 100
49 121.8 103.4 155.2
51 0.0 33.8 50.8#
86 35.0 49.6 74.4#

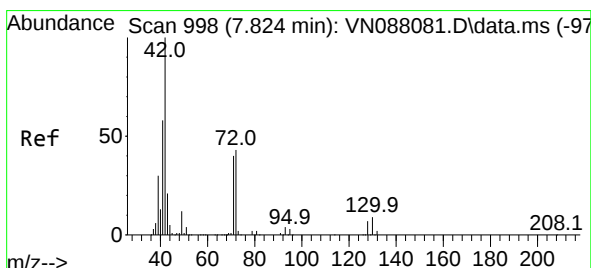
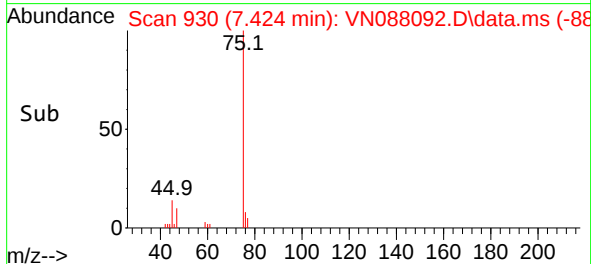
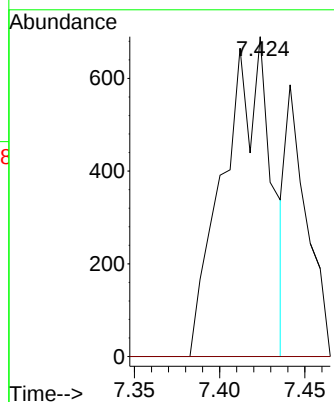
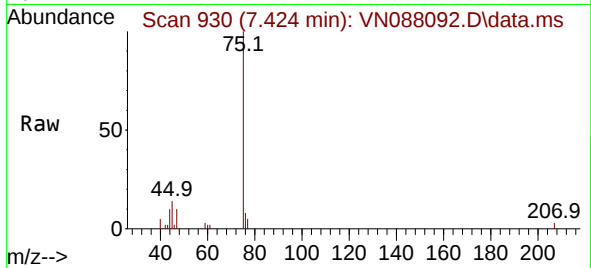




#26
2,2-Dichloropropane
Concen: 0.231 ug/l
RT: 7.424 min Scan# 91
Delta R.T. -0.053 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

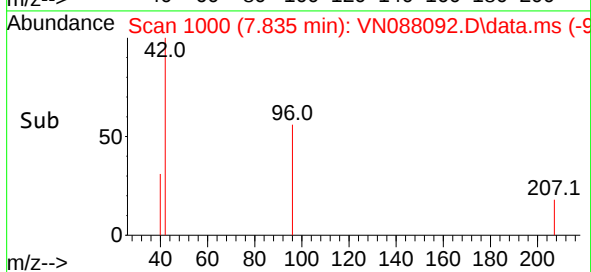
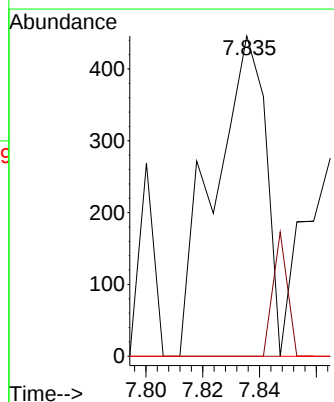
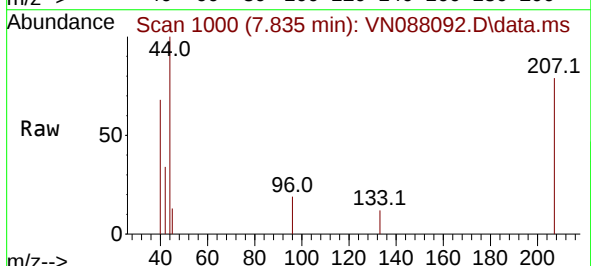
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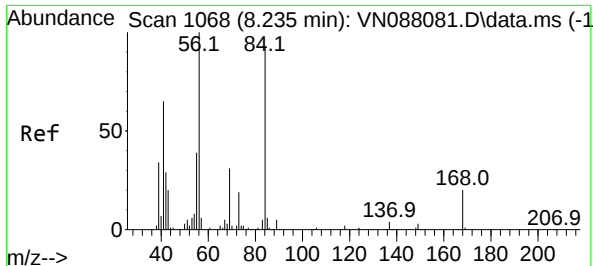
Tgt Ion: 77 Resp: 1322
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.7#



#29
Tetrahydrofuran
Concen: 0.308 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 42 Resp: 564
Ion Ratio Lower Upper
42 100
72 10.8 33.7 50.5#
71 0.0 31.9 47.9#

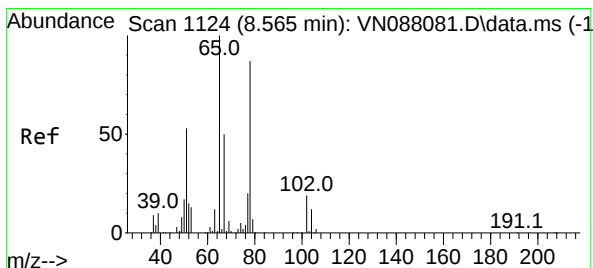
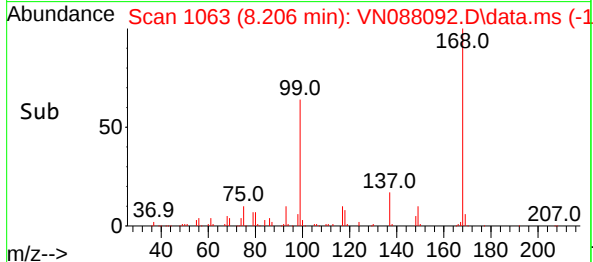
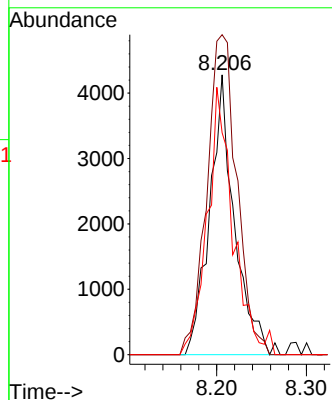
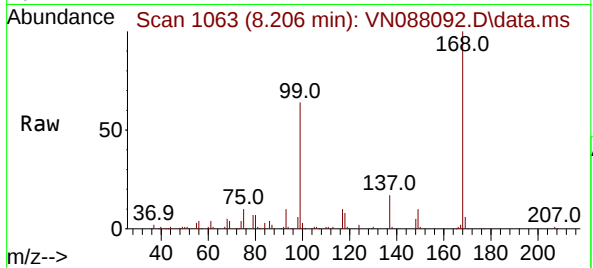




#31
Cyclohexane
Concen: 1.391 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

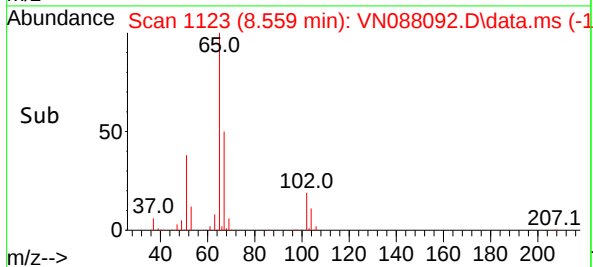
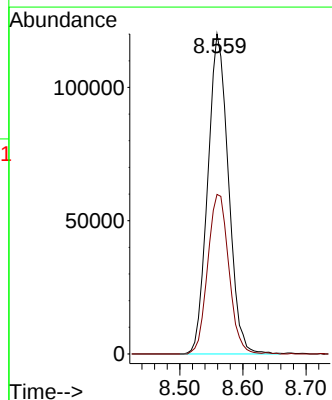
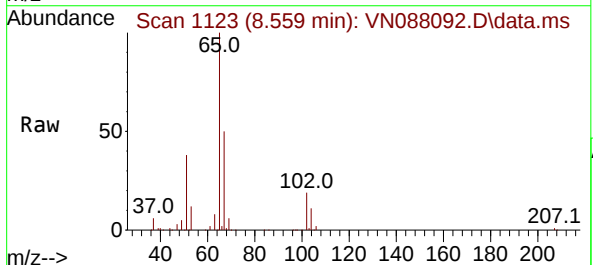
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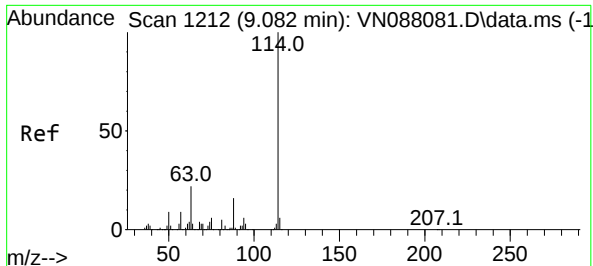
Tgt Ion: 56 Resp: 8258
Ion Ratio Lower Upper
56 100
69 114.3 23.7 35.5#
84 79.3 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 64.396 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 65 Resp: 273052
Ion Ratio Lower Upper
65 100
67 50.8 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: VN088092.D

Acq: 24 Oct 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

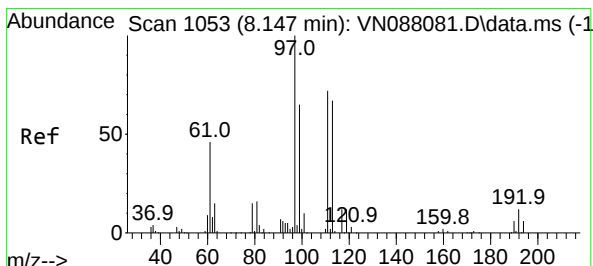
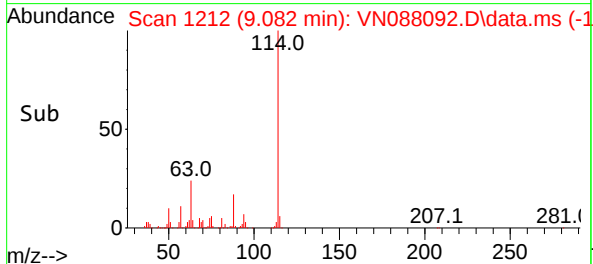
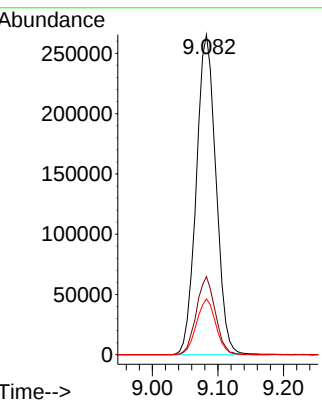
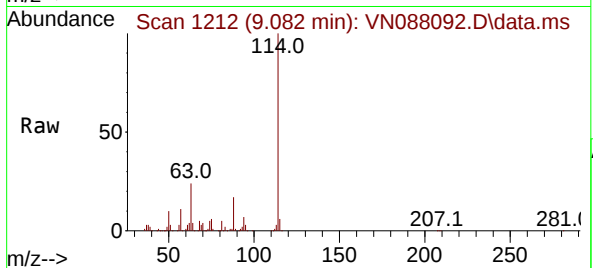
Tgt Ion:114 Resp: 553144

Ion Ratio Lower Upper

114 100

63 24.4 0.0 45.2

88 17.4 0.0 33.4



#35

Dibromofluoromethane

Concen: 53.435 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088092.D

Acq: 24 Oct 2025 14:37

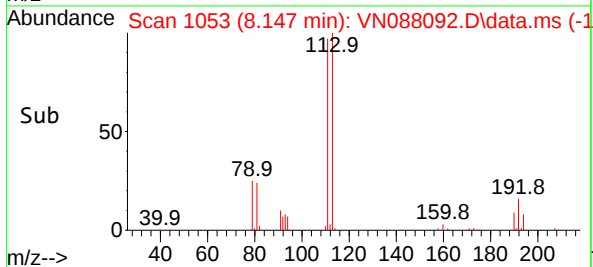
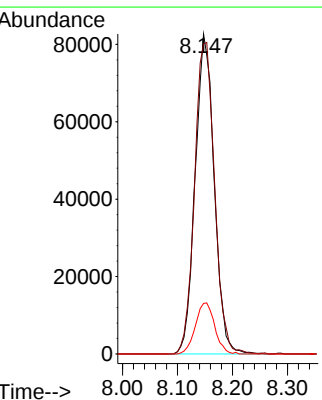
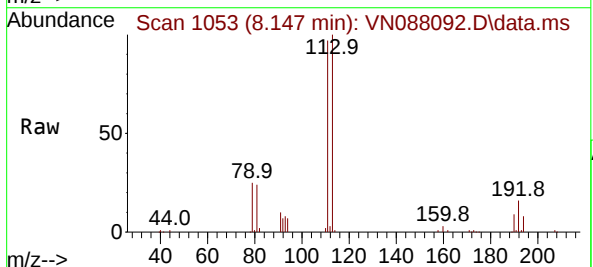
Tgt Ion:113 Resp: 198567

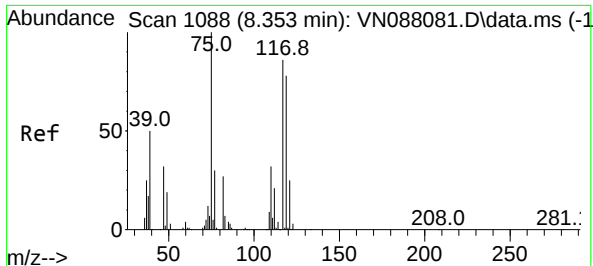
Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

192 16.3 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.586 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088092.D

Acq: 24 Oct 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

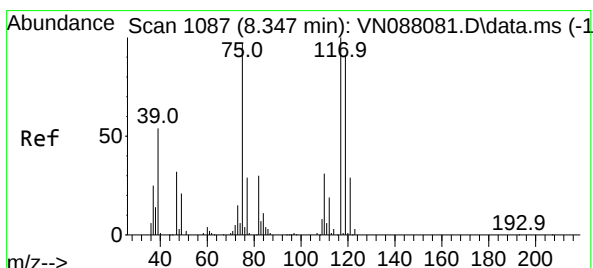
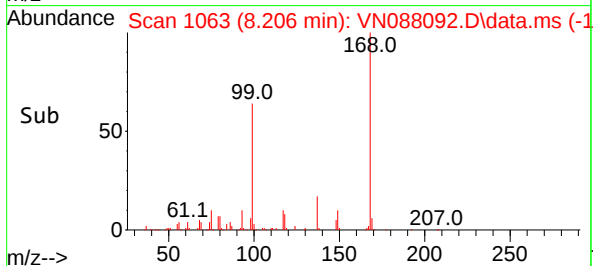
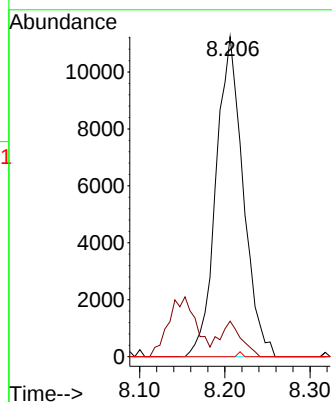
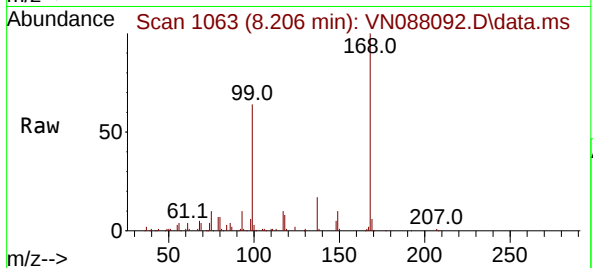
Tgt Ion: 75 Resp: 24885

Ion Ratio Lower Upper

75 100

110 8.7 15.9 47.6#

77 0.2 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.104 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.130 min

Lab File: VN088092.D

Acq: 24 Oct 2025 14:37

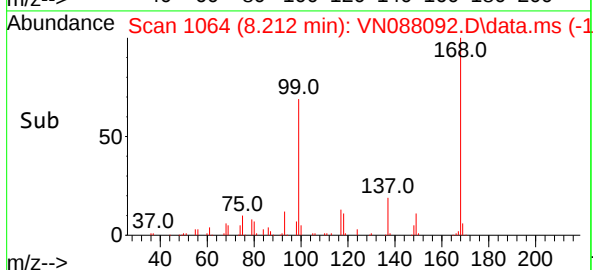
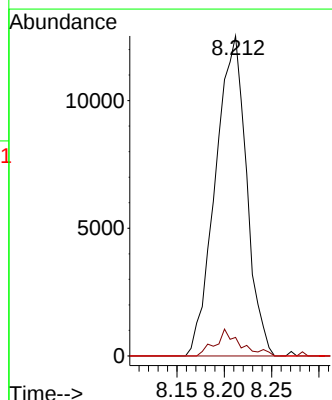
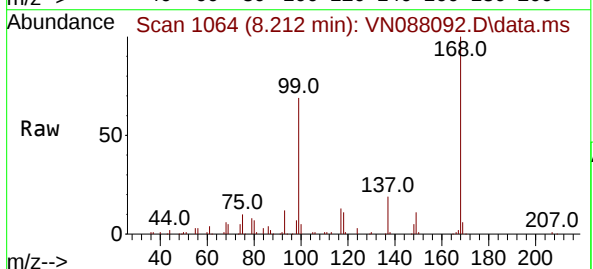
Tgt Ion: 117 Resp: 28604

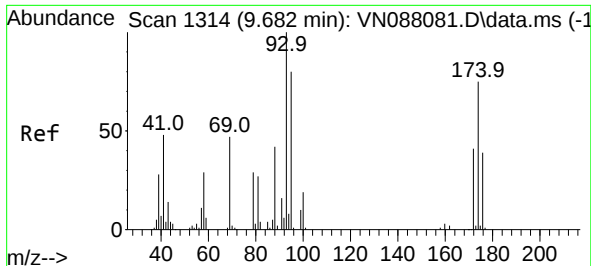
Ion Ratio Lower Upper

117 100

119 5.8 79.0 118.6#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 15.296 ug/l

RT: 9.700 min Scan# 1

Delta R.T. 0.018 min

Lab File: VN088092.D

Acq: 24 Oct 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

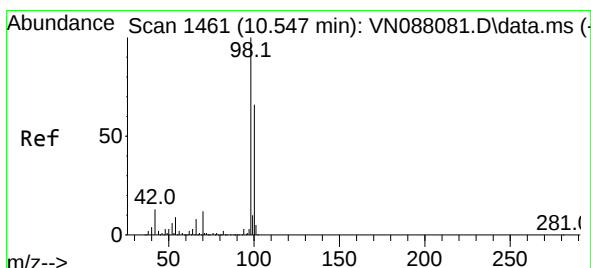
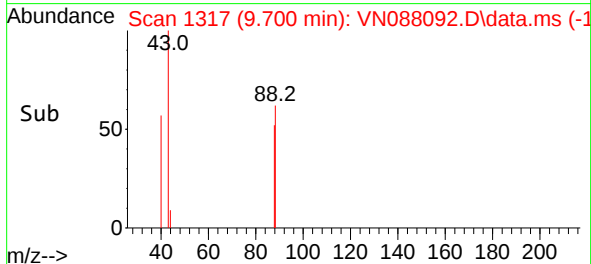
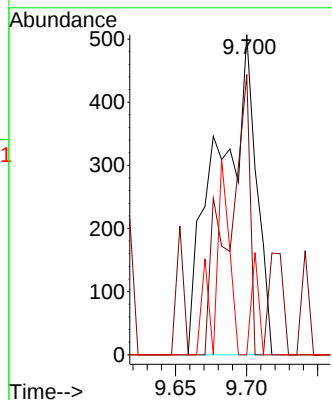
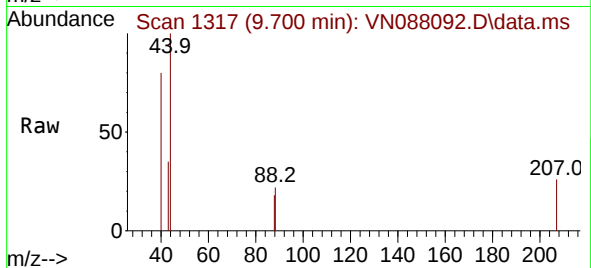
Tgt Ion: 88 Resp: 945

Ion Ratio Lower Upper

88 100

43 49.5 0.0 0.0#

58 6.0 57.9 86.9#



#50

Toluene-d8

Concen: 49.873 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088092.D

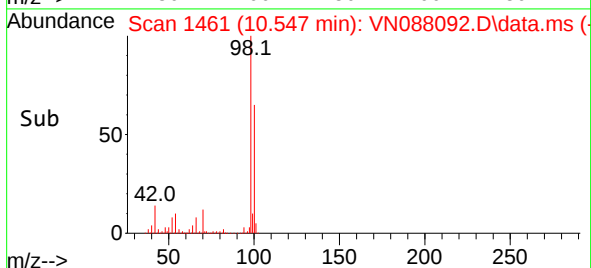
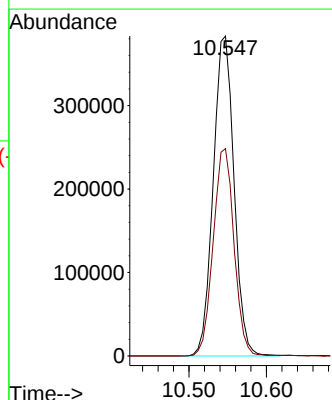
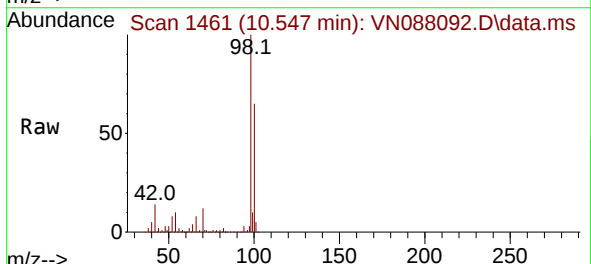
Acq: 24 Oct 2025 14:37

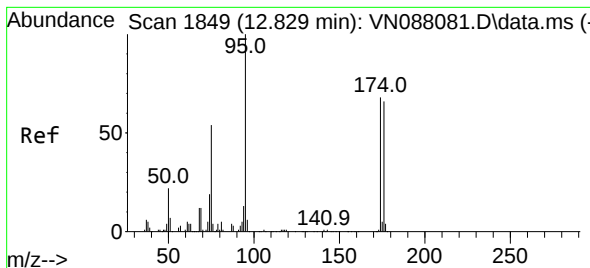
Tgt Ion: 98 Resp: 714108

Ion Ratio Lower Upper

98 100

100 65.1 52.8 79.2

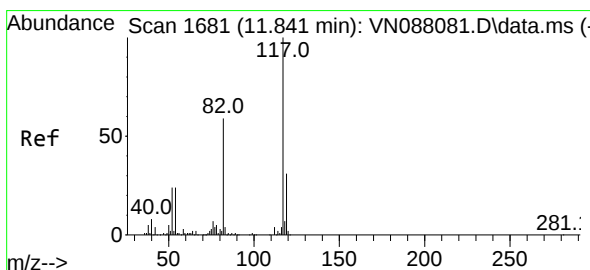
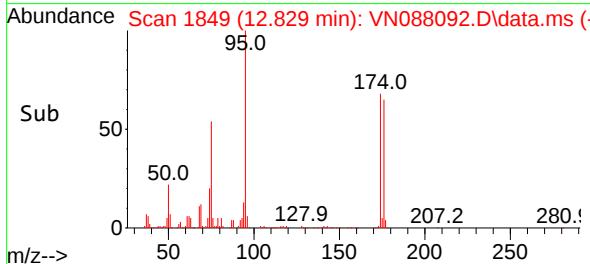
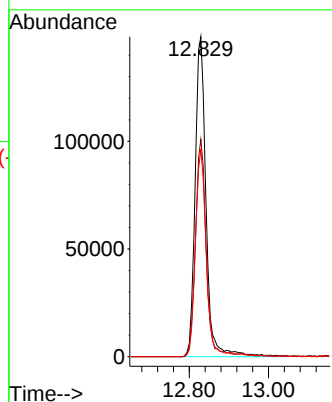
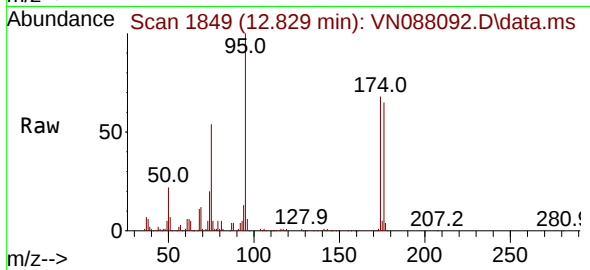




#62
4-Bromofluorobenzene
Concen: 56.076 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

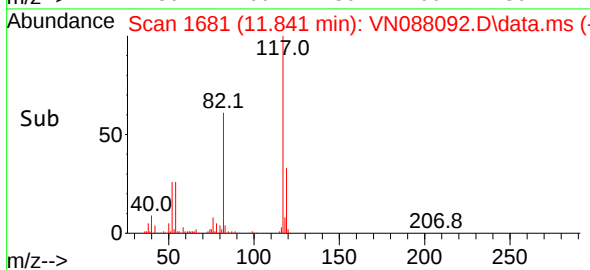
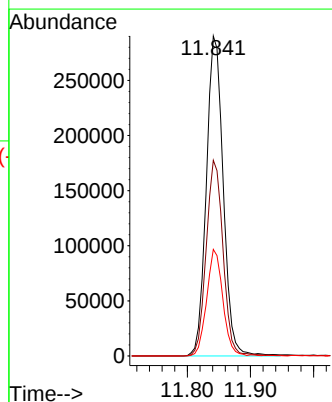
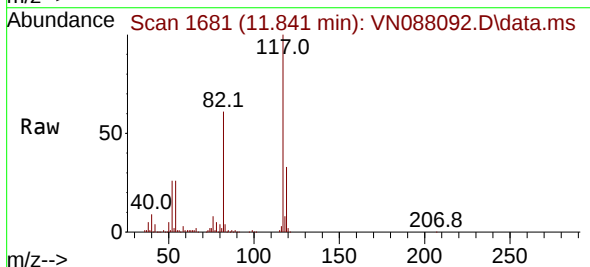
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

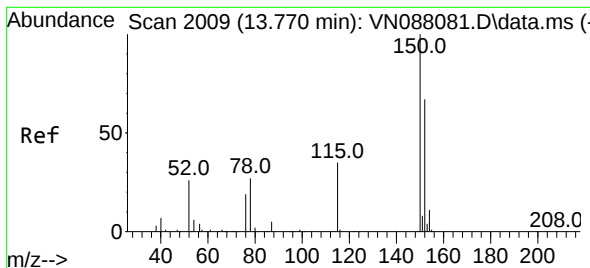
Tgt Ion: 95 Resp: 283566
Ion Ratio Lower Upper
95 100
174 66.2 0.0 138.4
176 62.9 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion: 117 Resp: 540772
Ion Ratio Lower Upper
117 100
82 61.1 47.4 71.2
119 33.3 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: VN088092.D

Acq: 24 Oct 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

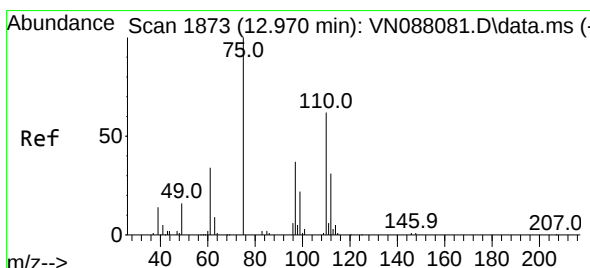
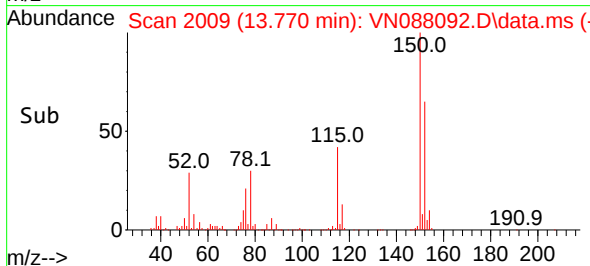
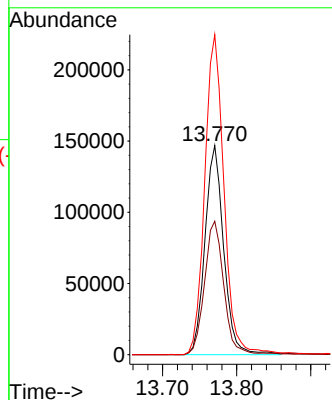
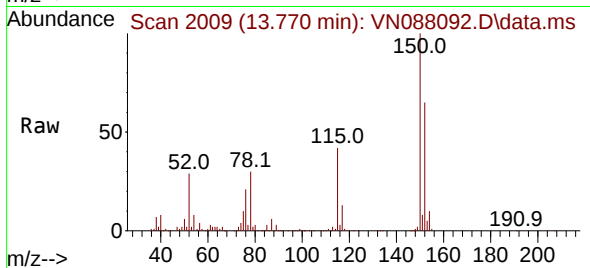
Tgt Ion:152 Resp: 258988

Ion Ratio Lower Upper

152 100

115 65.9 32.3 96.8

150 157.4 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 26.718 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN088092.D

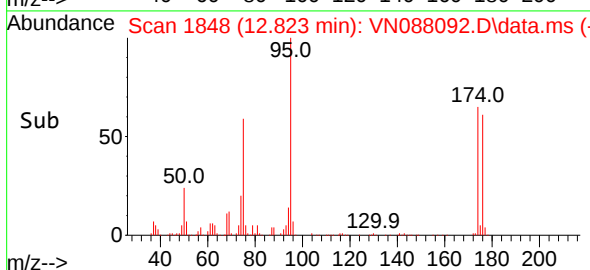
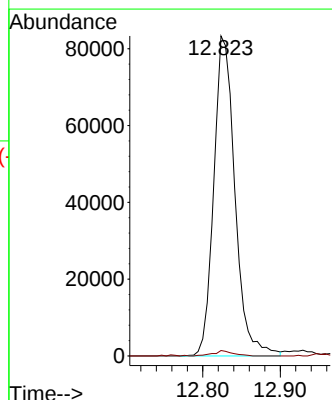
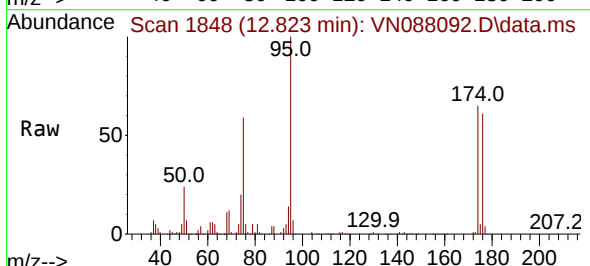
Acq: 24 Oct 2025 14:37

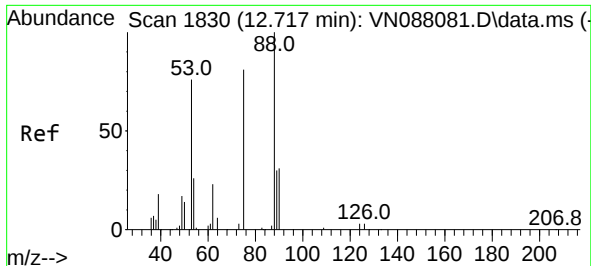
Tgt Ion: 75 Resp: 158205

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#

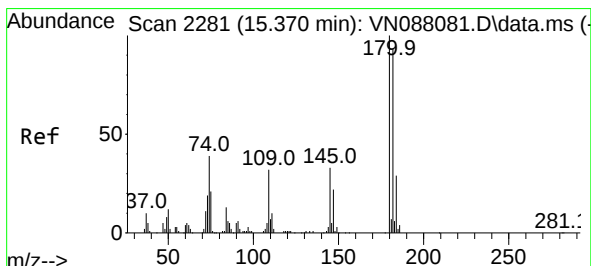
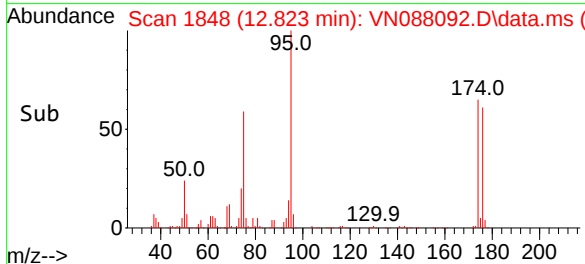
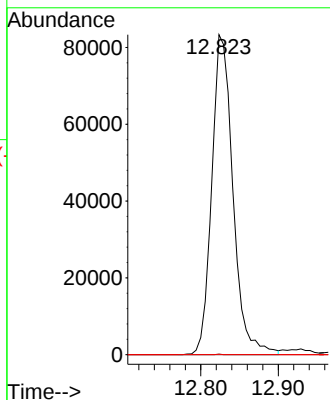
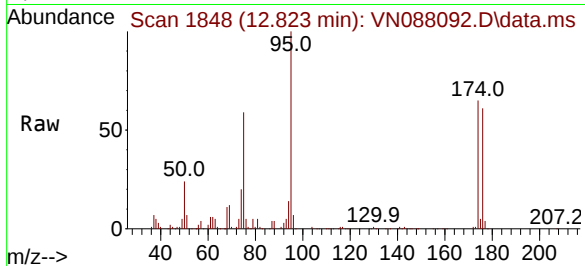




#81
trans-1,4-Dichloro-2-butene
Concen: 74.531 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

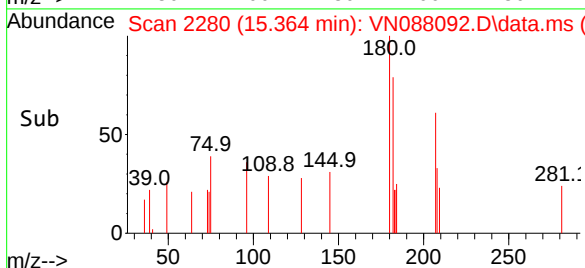
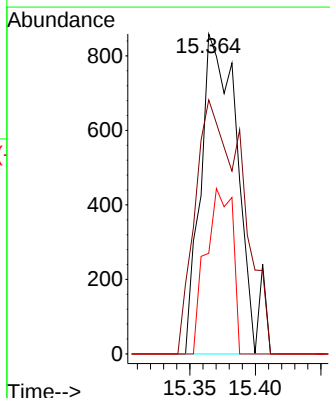
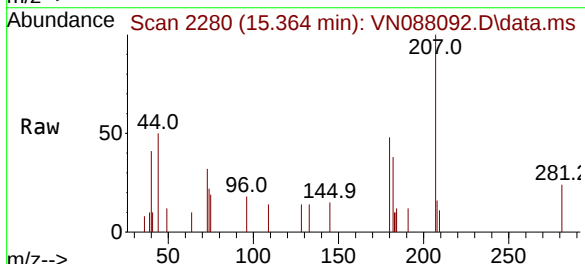
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

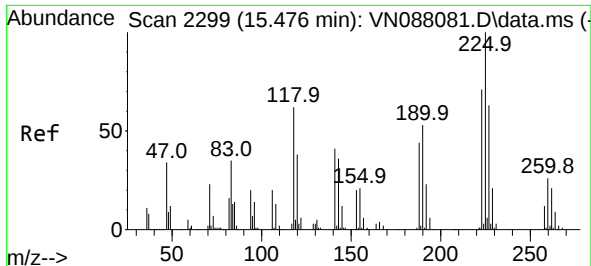
Tgt Ion: 75 Resp: 158205
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.338 ug/l
RT: 15.364 min Scan# 2280
Delta R.T. -0.000 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion:180 Resp: 1695
Ion Ratio Lower Upper
180 100
182 100.3 47.6 142.9
145 37.3 16.5 49.5

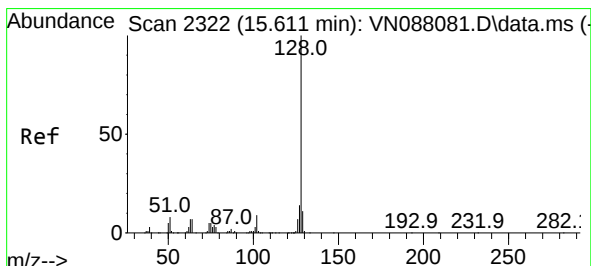
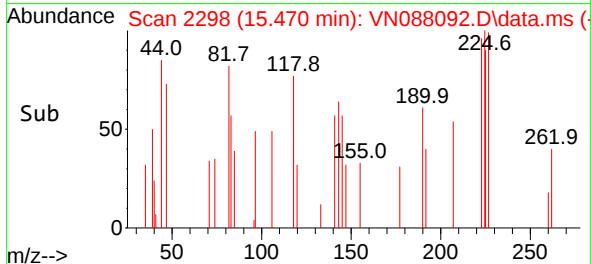
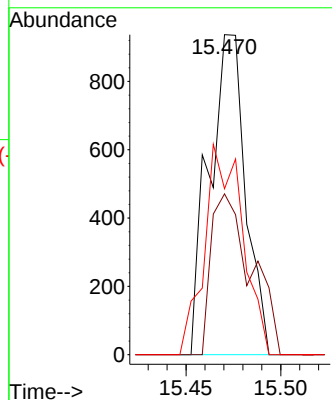
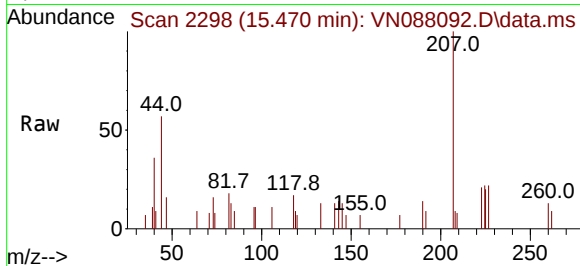




#94
Hexachlorobutadiene
Concen: 0.675 ug/l
RT: 15.470 min Scan# 211
Delta R.T. -0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

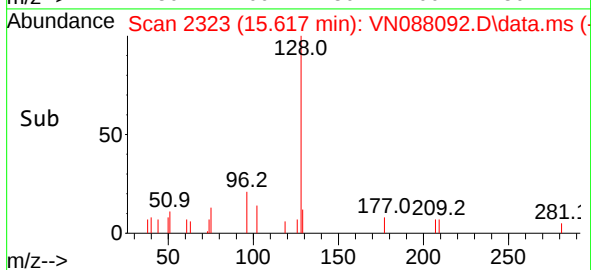
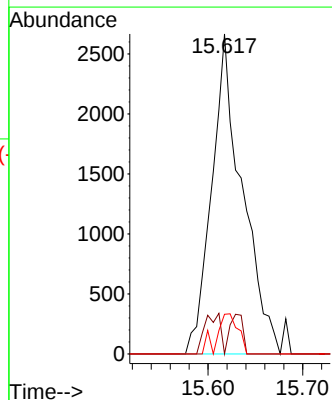
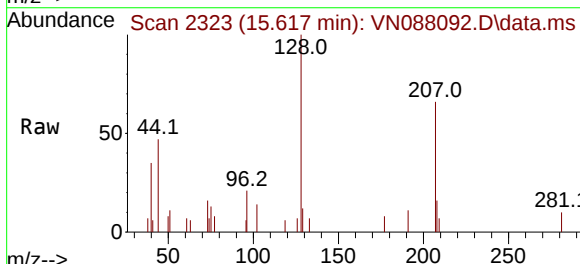
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

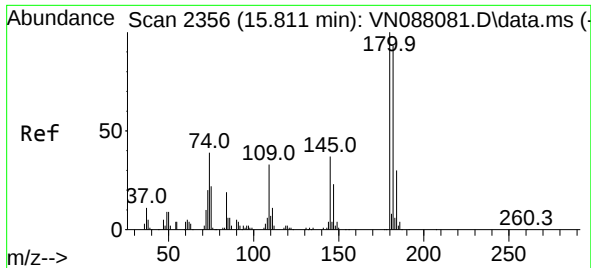
Tgt Ion:225 Resp: 1261
Ion Ratio Lower Upper
225 100
223 55.0 32.0 96.2
227 68.0 32.1 96.5



#95
Naphthalene
Concen: 0.347 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088092.D
Acq: 24 Oct 2025 14:37

Tgt Ion:128 Resp: 5972
Ion Ratio Lower Upper
128 100
127 5.3 10.6 15.8#
129 8.7 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.437 ug/l
 RT: 15.811 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN088092.D
 Acq: 24 Oct 2025 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tgt Ion:	180	Resp:	2103
Ion	Ratio	Lower	Upper
180	100		
182	89.6	46.8	140.3
145	28.2	17.3	52.0

