

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088442.D
 Acq On : 04 Dec 2025 13:52
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Dec 05 00:14:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

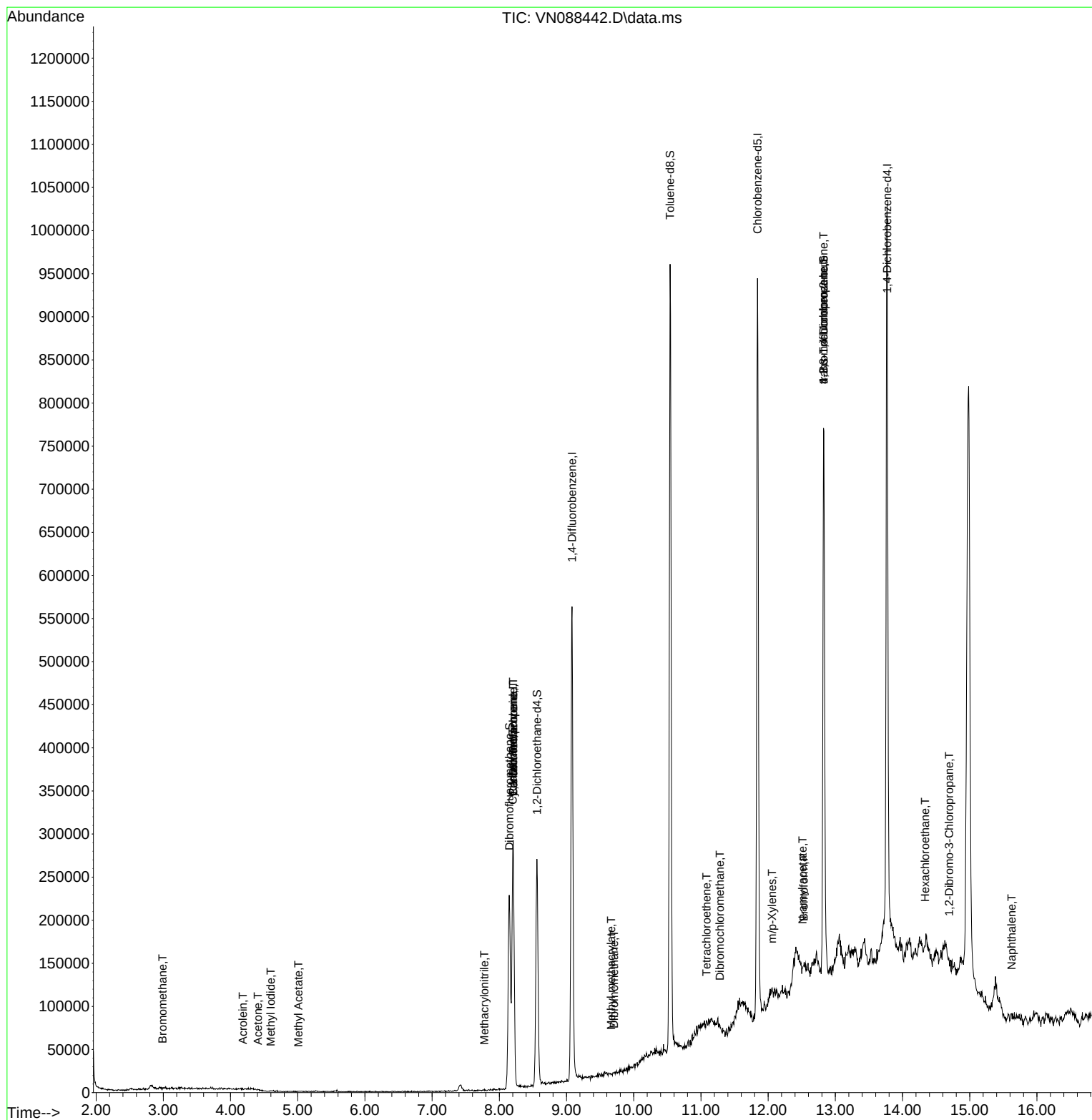
Internal Standards						
1) Pentafluorobenzene	8.206	168	181583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	433582	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	457503	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	219269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	225570	65.943	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 131.880%#			
35) Dibromofluoromethane	8.147	113	158522	52.758	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.520%			
50) Toluene-d8	10.541	98	596611	53.365	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.720%			
62) 4-Bromofluorobenzene	12.823	95	245965	64.120	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 128.240%#			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	444	0.310	ug/l	82
10) Methyl Iodide	4.601	142	695	0.315	ug/l #	74
13) Acrolein	4.183	56	152	0.291	ug/l #	18
16) Acetone	4.406	43	1049	0.848	ug/l #	48
18) Methyl Acetate	5.012	43	970	0.263	ug/l #	66
31) Cyclohexane	8.200	56	6968	1.549	ug/l #	45
36) 1,1-Dichloropropene	8.206	75	18896	4.075	ug/l #	51
38) Carbon Tetrachloride	8.206	117	21818	4.726	ug/l #	18
41) Methacrylonitrile	7.777	41	1174	0.389	ug/l #	34
46) Dibromomethane	9.706	93	1069	0.430	ug/l #	36
48) Methyl methacrylate	9.665	41	1357	0.319	ug/l #	30
60) Dibromochloromethane	11.282	129	699	0.202	ug/l	76
64) Tetrachloroethene	11.082	164	1197	0.330	ug/l #	22
68) m/p-Xylenes	12.059	106	1887	0.283	ug/l #	1
71) Bromoform	12.529	173	697	0.275	ug/l #	98
74) N-amyl acetate	12.512	43	1261	0.228	ug/l #	48
76) 1,2,3-Trichloropropane	12.823	75	144221	28.082	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	144221	79.668	ug/l #	1
90) Hexachloroethane	14.335	117	527	0.214	ug/l	72
92) 1,2-Dibromo-3-Chloropr...	14.694	75	305	0.240	ug/l #	1
95) Naphthalene	15.623	128	3766	0.269	ug/l #	53

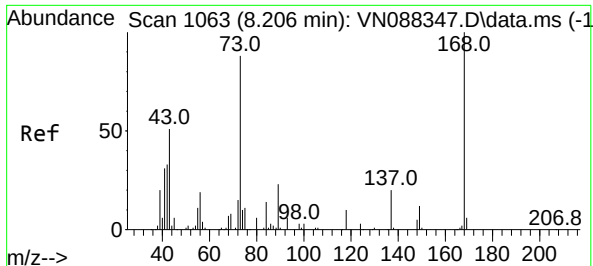
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 05 00:14:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

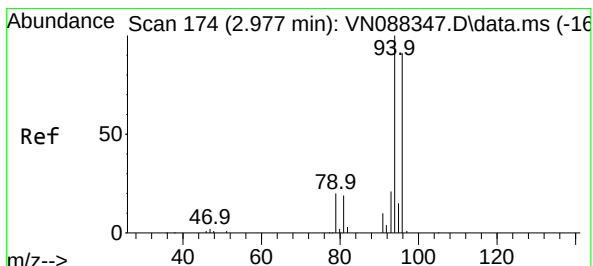
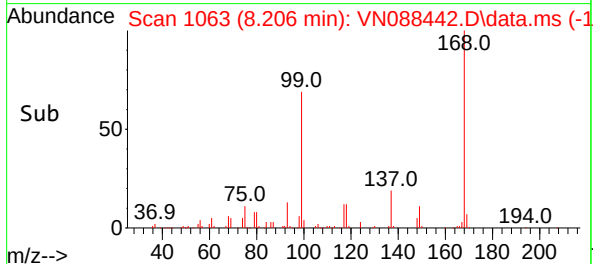
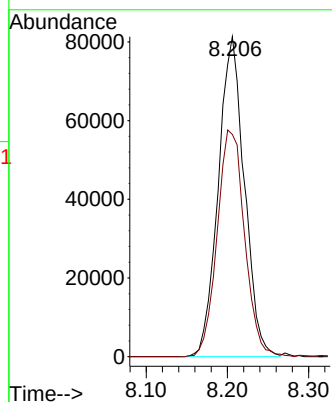
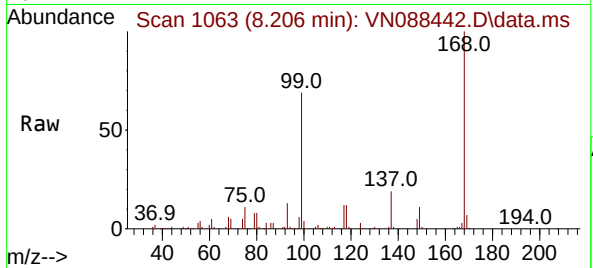




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

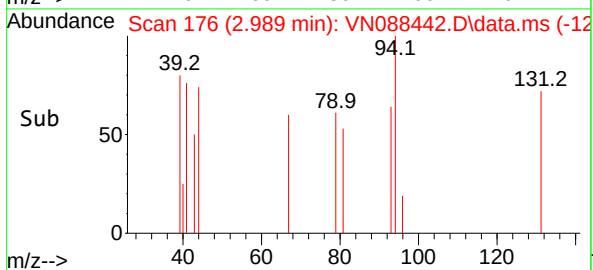
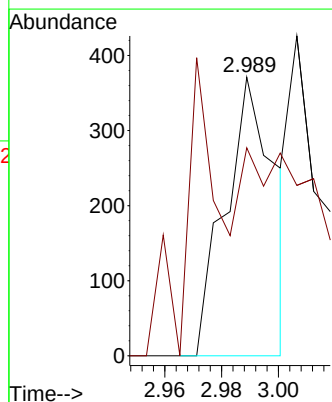
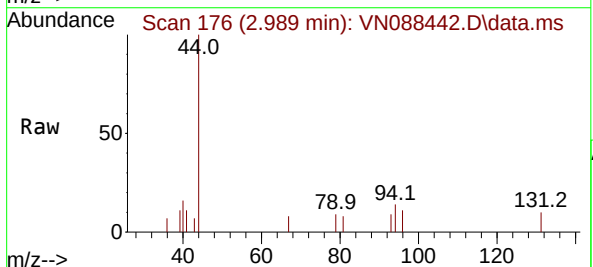
Instrument :
MSVOA_N
ClientSampleId :
IBLK

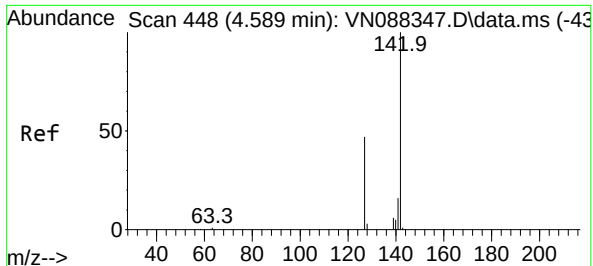
Tgt Ion:168 Resp: 181583
Ion Ratio Lower Upper
168 100
99 69.4 57.1 85.7



#5
Bromomethane
Concen: 0.310 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.012 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 94 Resp: 444
Ion Ratio Lower Upper
94 100
96 74.7 73.2 109.8

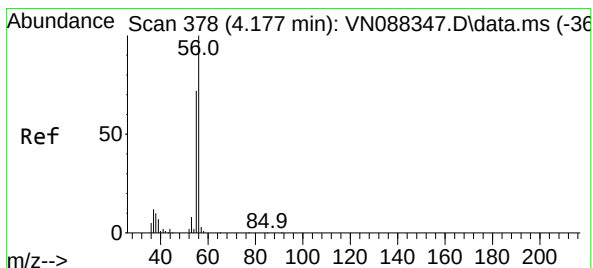
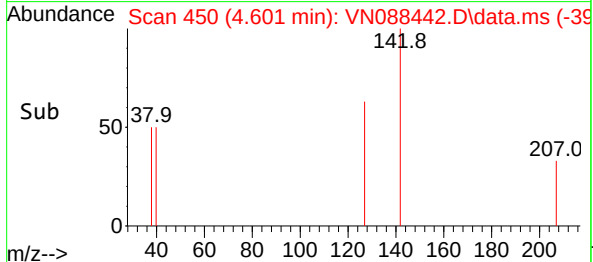
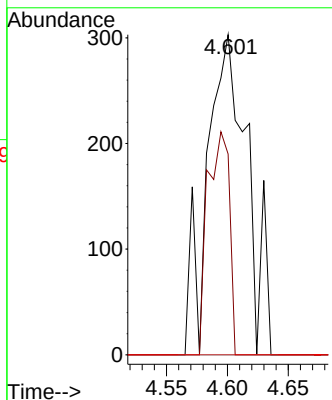
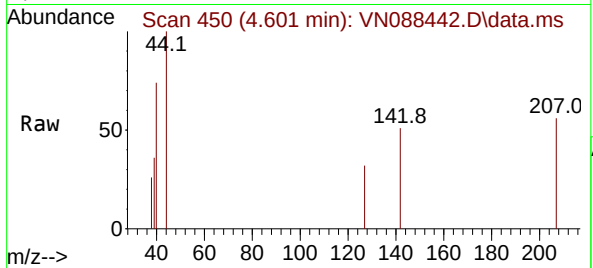




#10
Methyl Iodide
Concen: 0.315 ug/l
RT: 4.601 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

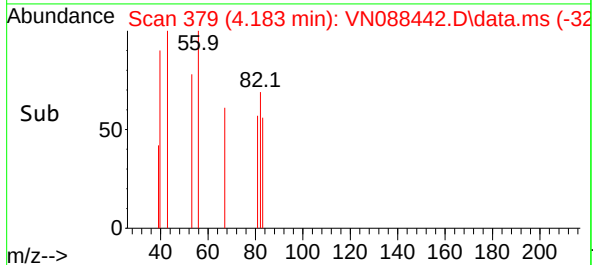
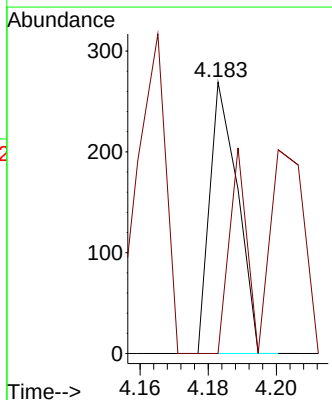
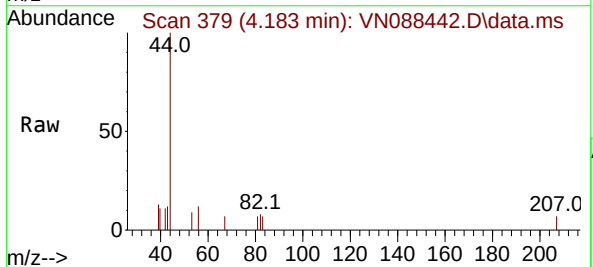
Instrument :
MSVOA_N
ClientSampleId :
IBLK

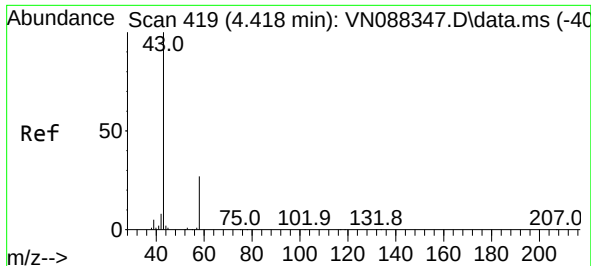
Tgt Ion:142 Resp: 695
Ion Ratio Lower Upper
142 100
127 62.7 37.9 56.9#
141 0.0 12.4 18.6#



#13
Acrolein
Concen: 0.291 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 137.5 56.3 84.5#

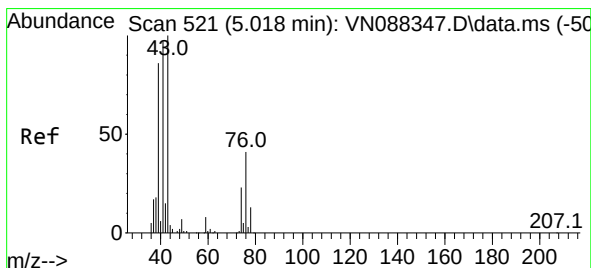
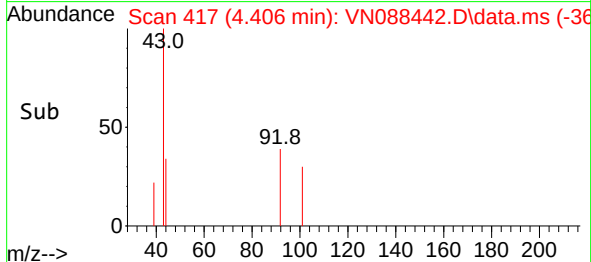
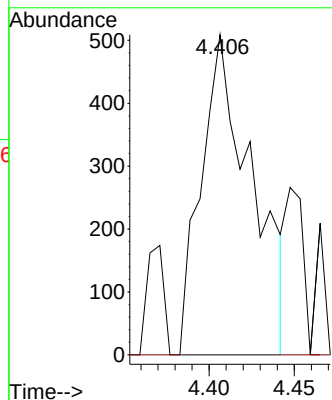
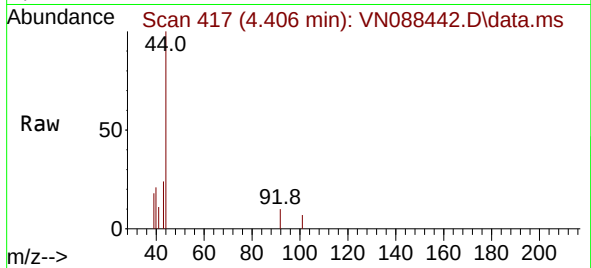




#16
Acetone
Concen: 0.848 ug/l
RT: 4.406 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

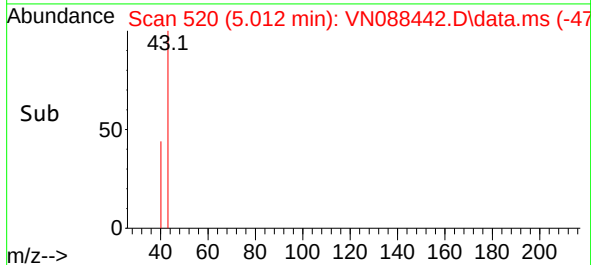
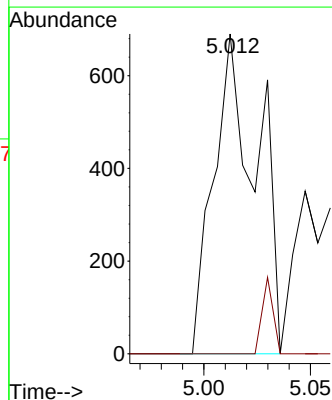
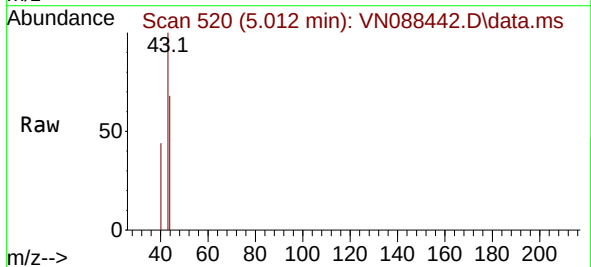
Instrument :
MSVOA_N
ClientSampleId :
IBLK

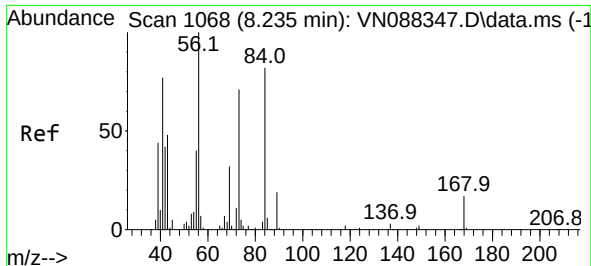
Tgt Ion: 43 Resp: 1049
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#



#18
Methyl Acetate
Concen: 0.263 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 43 Resp: 970
Ion Ratio Lower Upper
43 100
74 6.0 17.9 26.9#

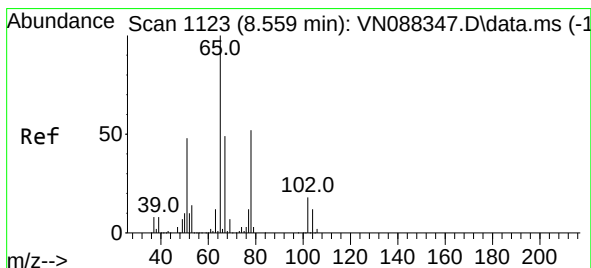
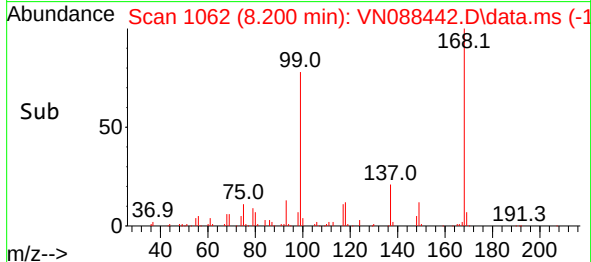
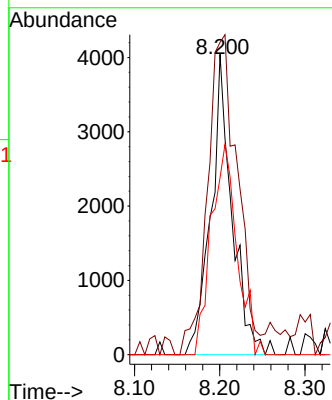
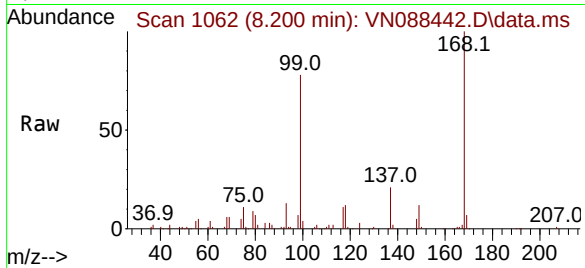




#31
Cyclohexane
Concen: 1.549 ug/l
RT: 8.200 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

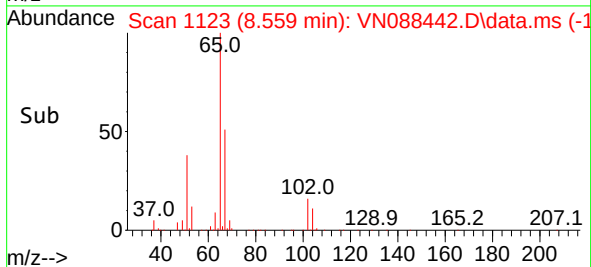
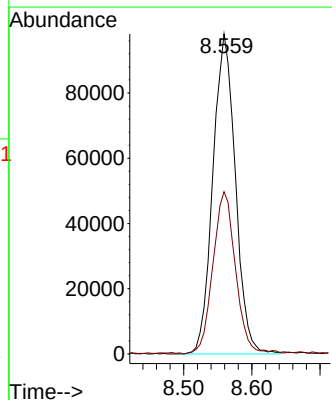
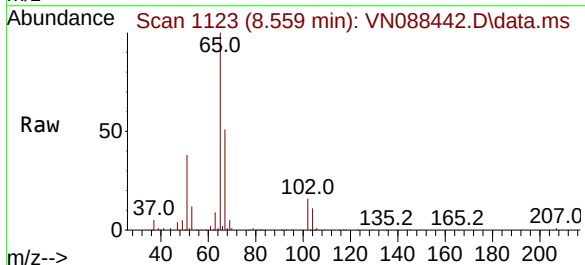
Instrument :
MSVOA_N
ClientSampleId :
IBLK

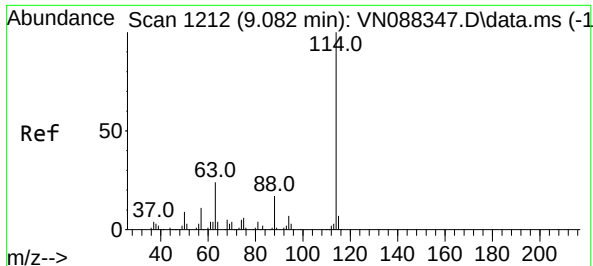
Tgt Ion: 56 Resp: 6968
Ion Ratio Lower Upper
56 100
69 103.9 25.3 37.9#
84 58.9 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 65.943 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 65 Resp: 225570
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

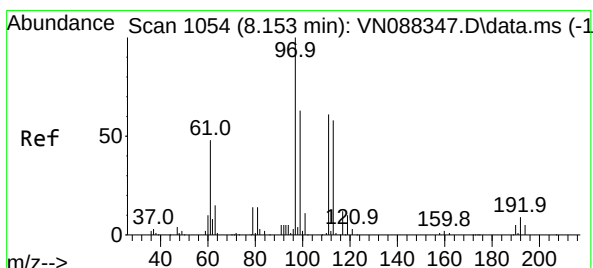
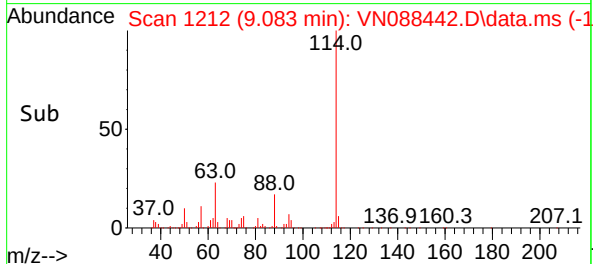
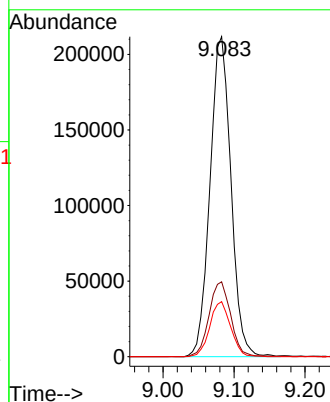
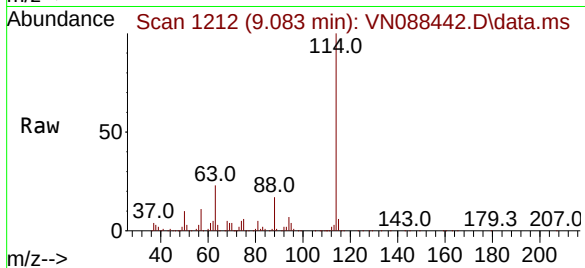
Tgt Ion:114 Resp: 433582

Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.0

88 17.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.758 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

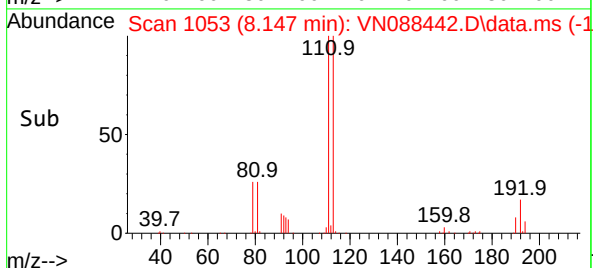
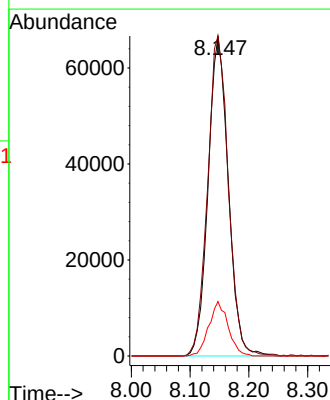
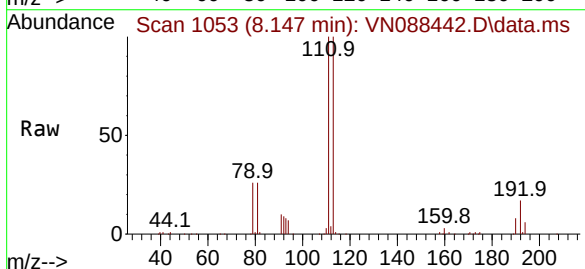
Tgt Ion:113 Resp: 158522

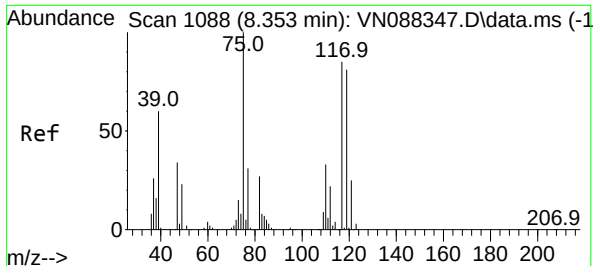
Ion Ratio Lower Upper

113 100

111 103.0 82.5 123.7

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.075 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

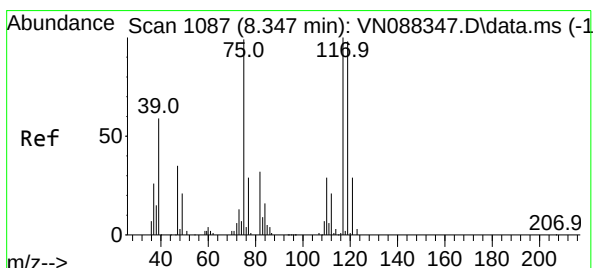
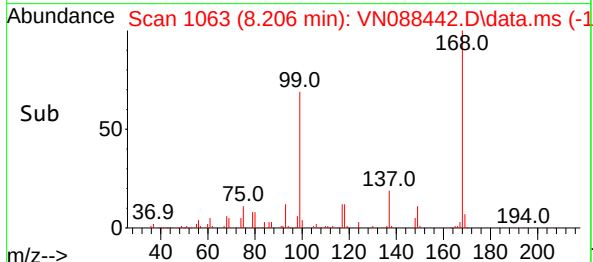
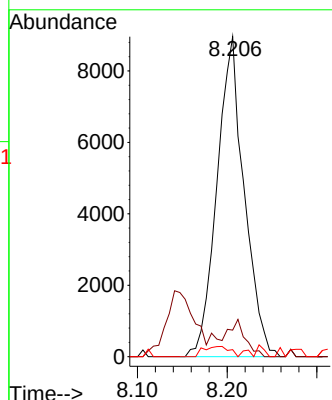
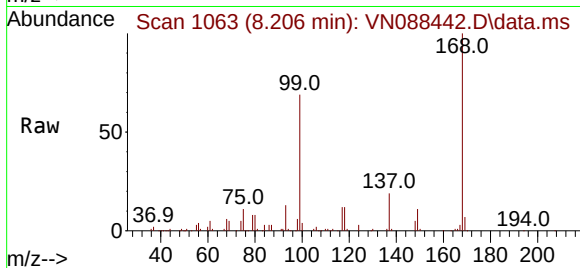
Tgt Ion: 75 Resp: 18896

Ion Ratio Lower Upper

75 100

110 7.1 15.8 47.4#

77 0.6 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 4.726 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

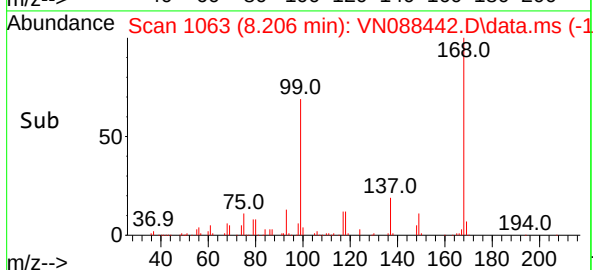
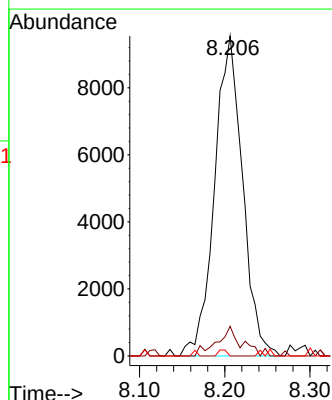
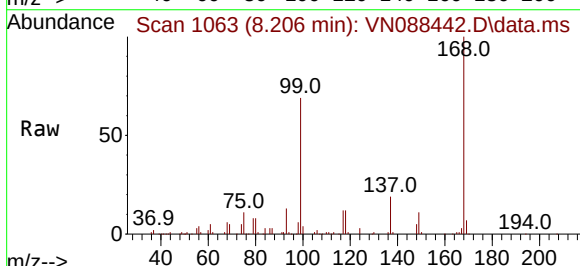
Tgt Ion: 117 Resp: 21818

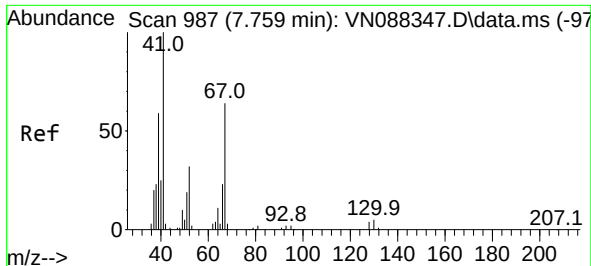
Ion Ratio Lower Upper

117 100

119 9.3 78.2 117.4#

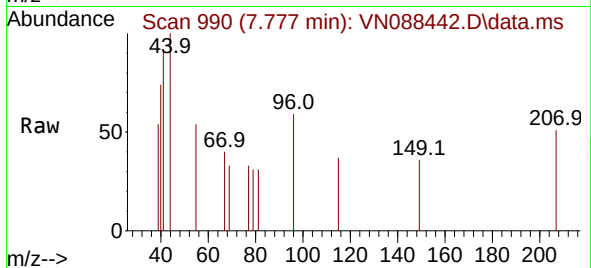
121 0.0 23.4 35.2#



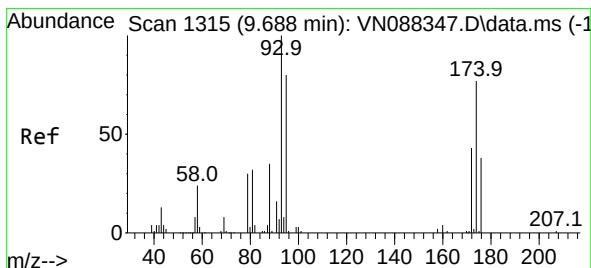
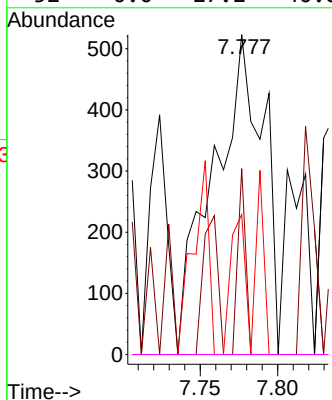
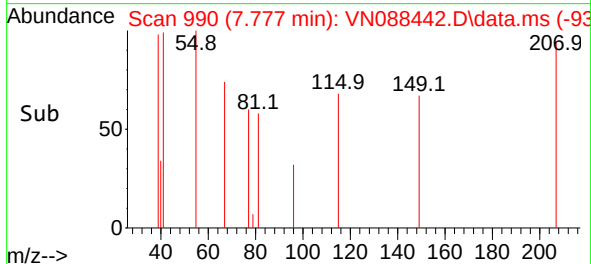


#41
Methacrylonitrile
Concen: 0.389 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

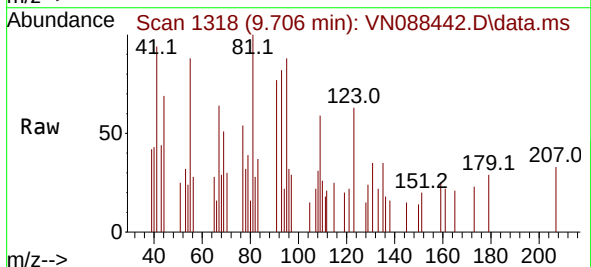
Instrument :
MSVOA_N
ClientSampleId :
IBLK



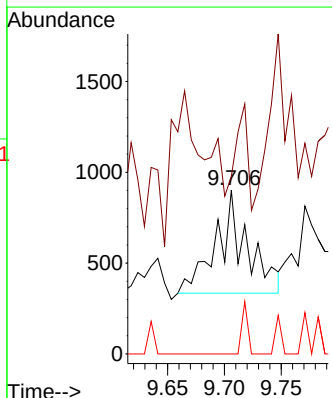
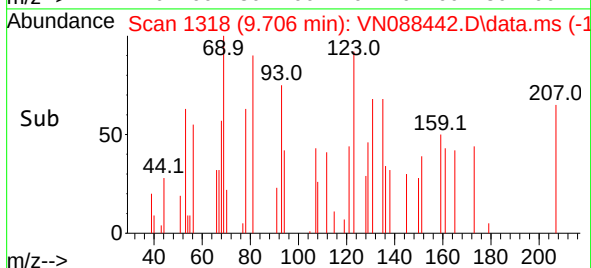
Tgt Ion:	41	Resp:	1174
Ion	Ratio	Lower	Upper
41	100		
39	9.1	46.3	69.5#
67	12.8	54.7	82.1#
52	0.0	27.2	40.8#

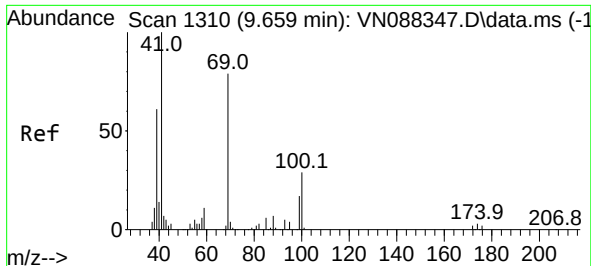


#46
Dibromomethane
Concen: 0.430 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.018 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52



Tgt Ion:	93	Resp:	1069
Ion	Ratio	Lower	Upper
93	100		
95	39.9	65.8	98.6#
174	9.5	64.3	96.5#

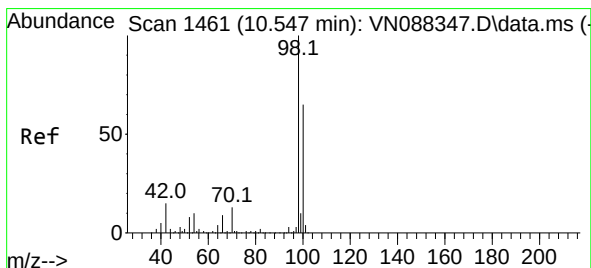
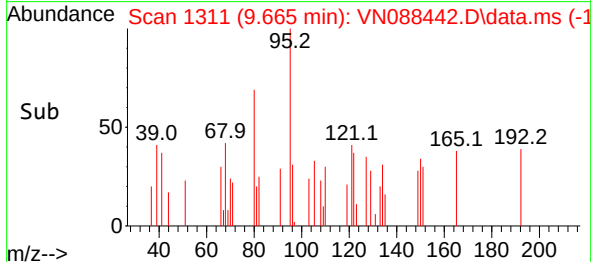
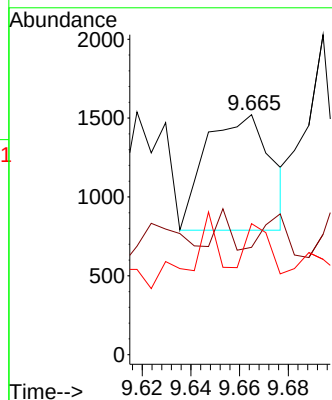
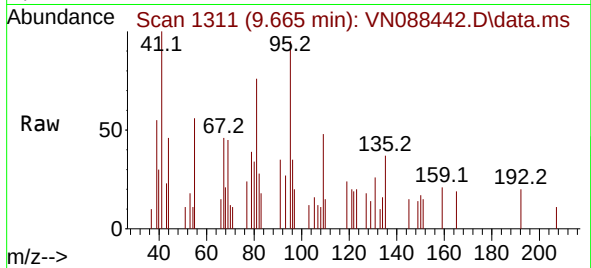




#48
Methyl methacrylate
Concen: 0.319 ug/l
RT: 9.665 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

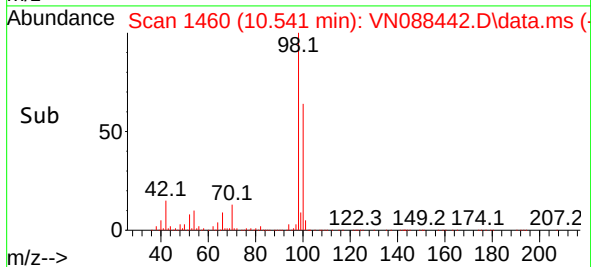
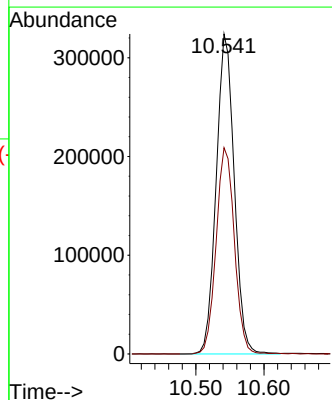
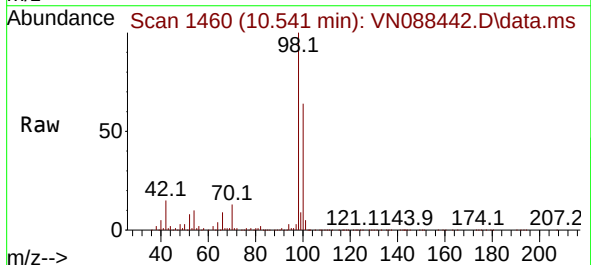
Instrument :
MSVOA_N
ClientSampleId :
IBLK

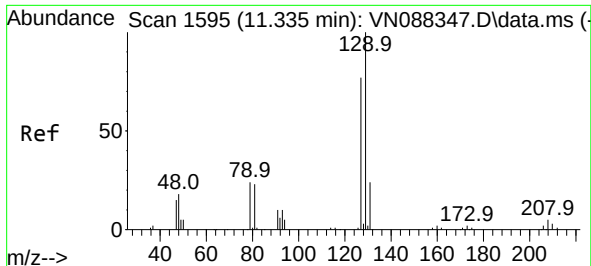
Tgt Ion: 41 Resp: 1357
Ion Ratio Lower Upper
41 100
69 14.2 62.4 93.6#
39 13.5 52.6 79.0#



#50
Toluene-d8
Concen: 53.365 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 98 Resp: 596611
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2

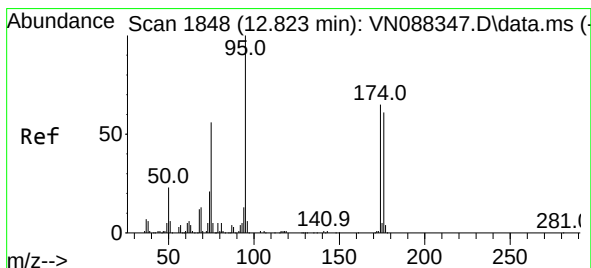
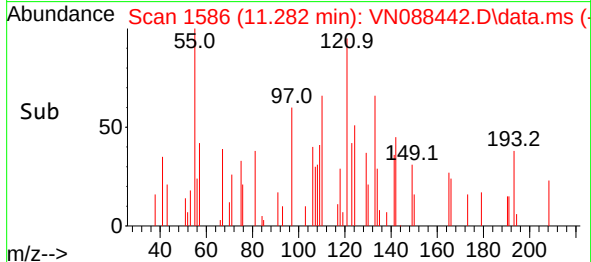
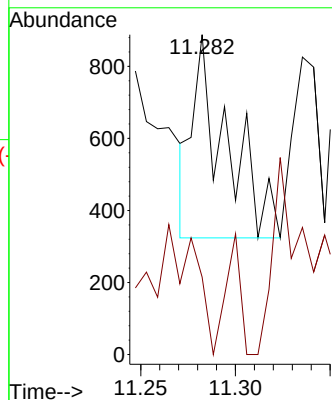
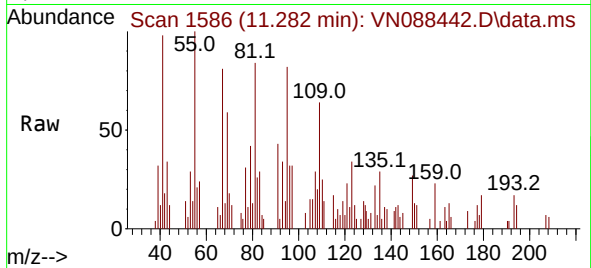




#60
Dibromochloromethane
Concen: 0.202 ug/l
RT: 11.282 min Scan# 1586
Delta R.T. -0.053 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

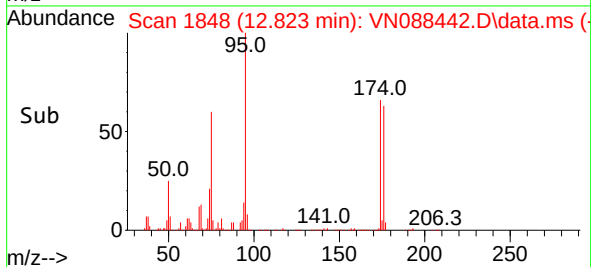
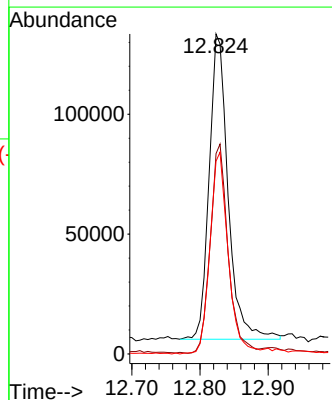
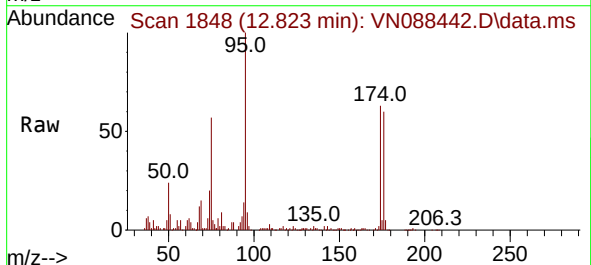
Instrument :
MSVOA_N
ClientSampleId :
IBLK

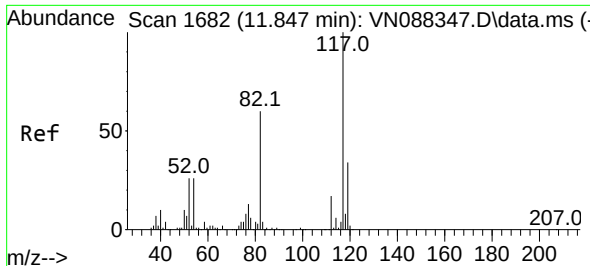
Tgt Ion:129 Resp: 699
Ion Ratio Lower Upper
129 100
127 55.4 38.2 114.6



#62
4-Bromofluorobenzene
Concen: 64.120 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 95 Resp: 245965
Ion Ratio Lower Upper
95 100
174 64.9 0.0 139.0
176 63.5 0.0 132.4

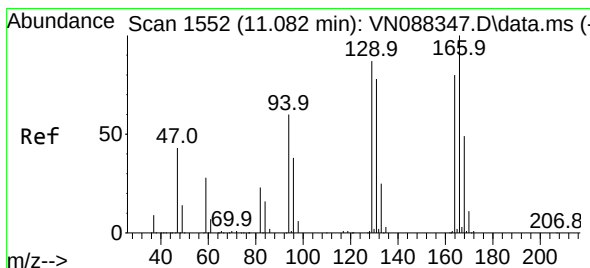
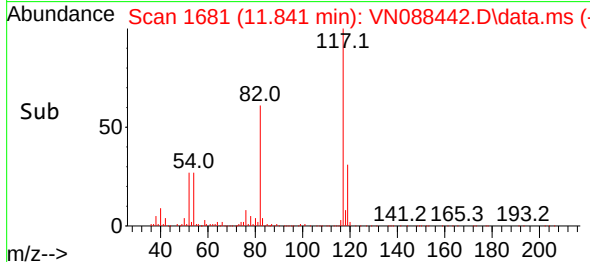
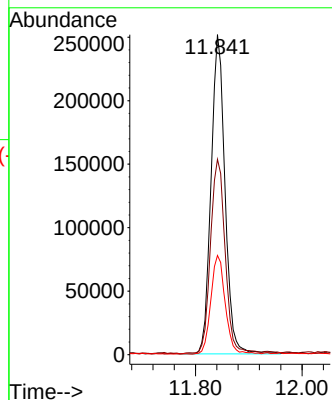
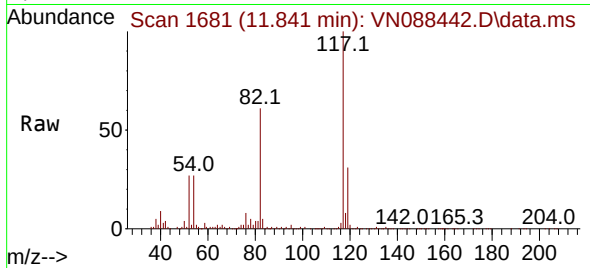




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

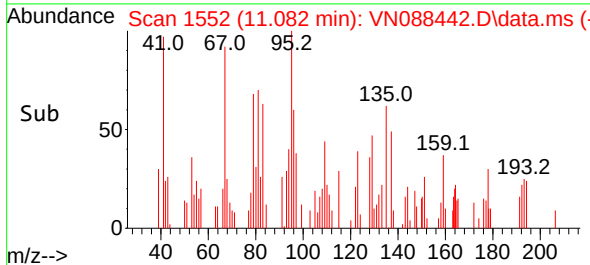
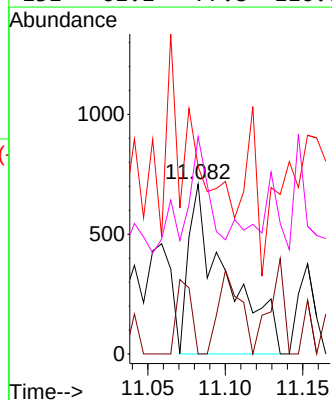
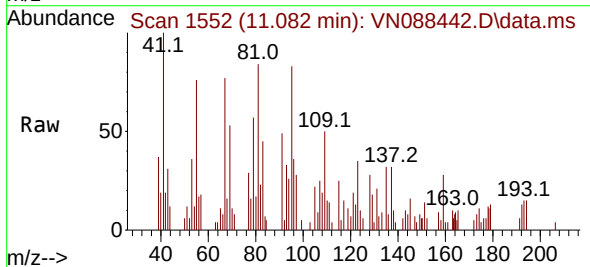
Instrument :
MSVOA_N
ClientSampleId :
IBLK

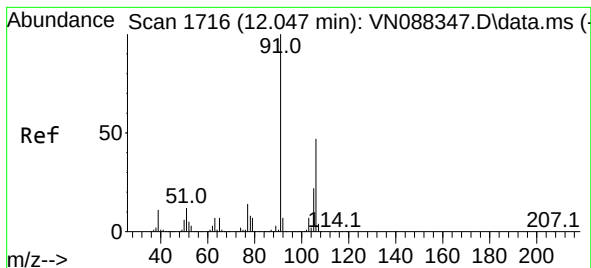
Tgt Ion:117 Resp: 457503
Ion Ratio Lower Upper
117 100
82 60.9 47.8 71.8
119 30.9 26.9 40.3



#64
Tetrachloroethene
Concen: 0.330 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion:164 Resp: 1197
Ion Ratio Lower Upper
164 100
166 0.0 99.6 149.4#
129 24.4 86.6 129.8#
131 61.1 77.8 116.6#





#68

m/p-Xylenes

Concen: 0.283 ug/l

RT: 12.059 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

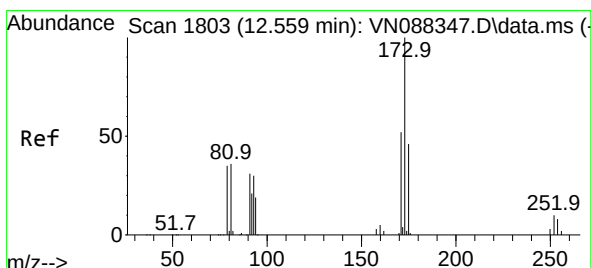
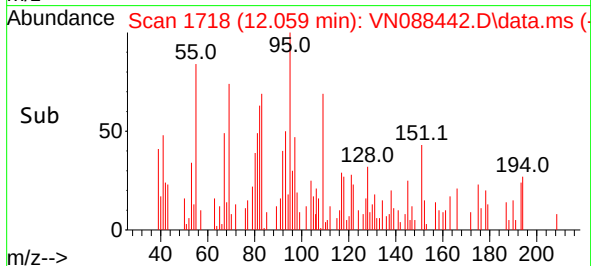
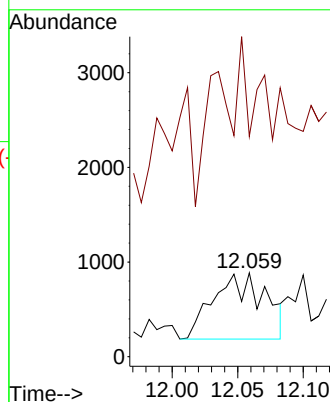
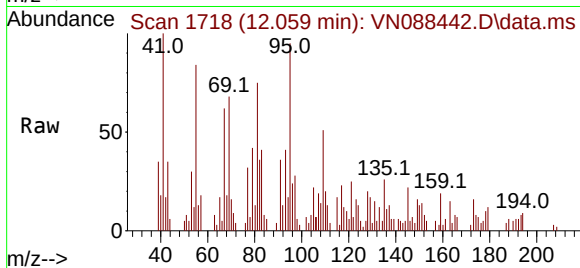
IBLK

Tgt Ion:106 Resp: 1887

Ion Ratio Lower Upper

106 100

91 28.4 167.8 251.6#



#71

Bromoform

Concen: 0.275 ug/l

RT: 12.529 min Scan# 1798

Delta R.T. -0.029 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

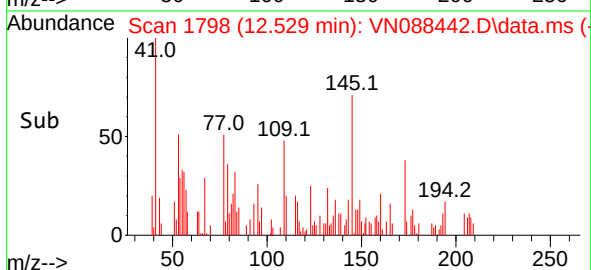
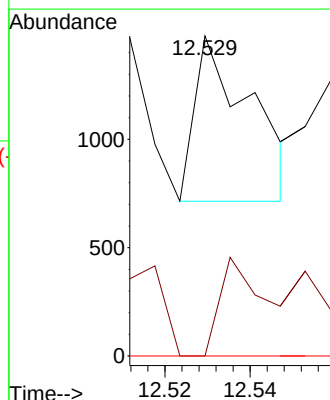
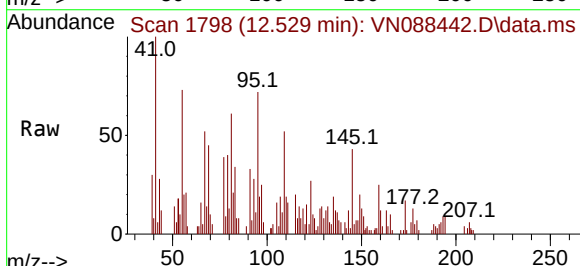
Tgt Ion:173 Resp: 697

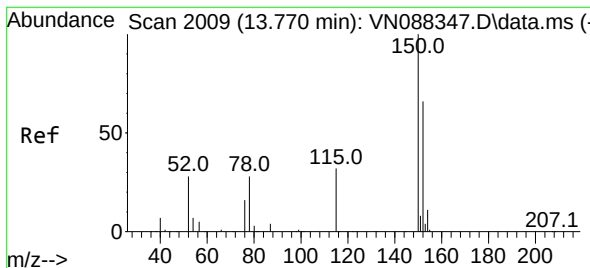
Ion Ratio Lower Upper

173 100

175 48.9 23.9 71.8

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

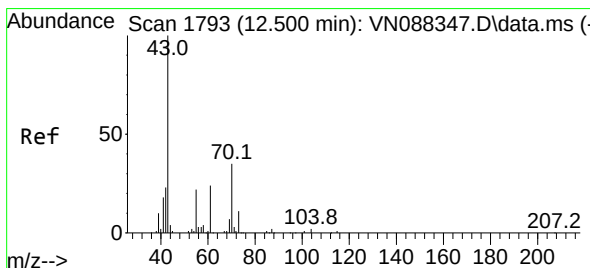
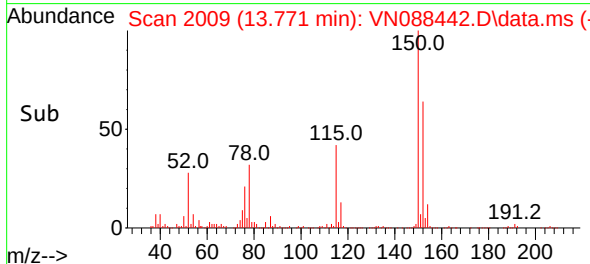
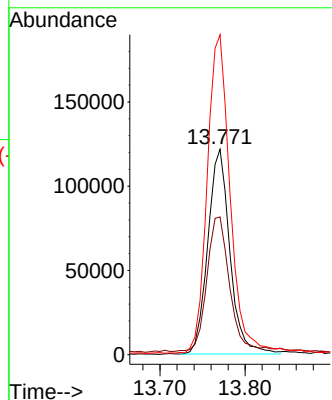
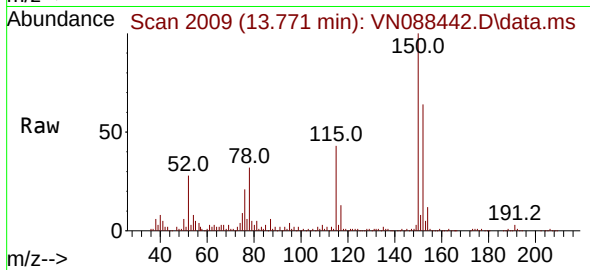
Tgt Ion:152 Resp: 219269

Ion Ratio Lower Upper

152 100

115 69.8 33.0 98.9

150 161.3 0.0 349.0



#74

N-ethyl acetate

Concen: 0.228 ug/l

RT: 12.512 min Scan# 1795

Delta R.T. 0.012 min

Lab File: VN088442.D

Acq: 04 Dec 2025 13:52

Tgt Ion: 43 Resp: 1261

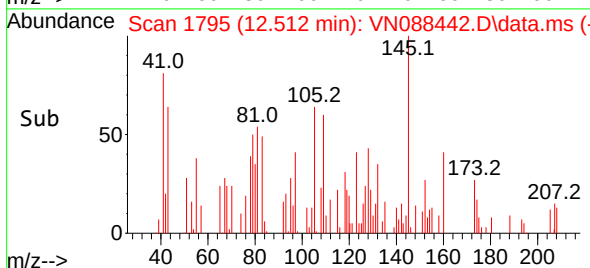
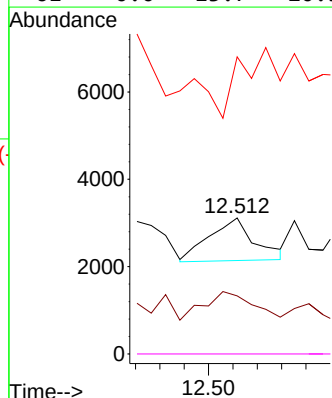
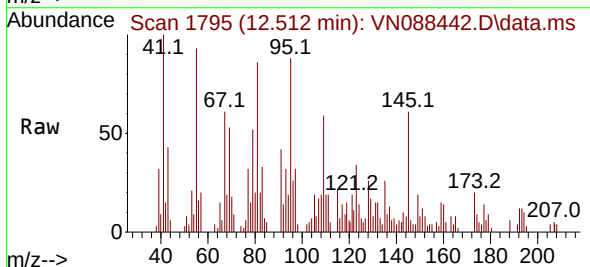
Ion Ratio Lower Upper

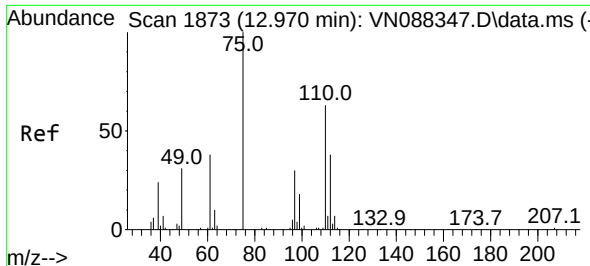
43 100

70 71.7 28.3 42.5#

55 0.0 17.7 26.5#

61 0.0 13.7 20.5#

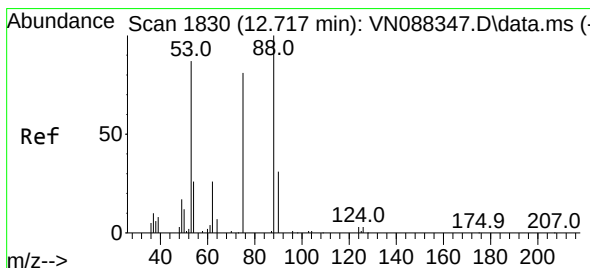
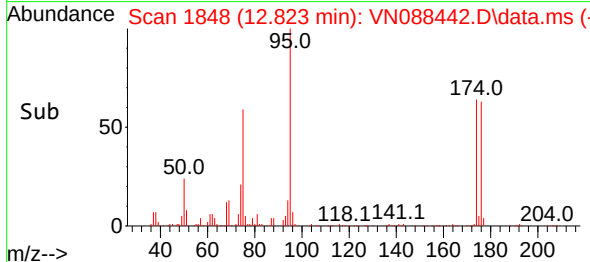
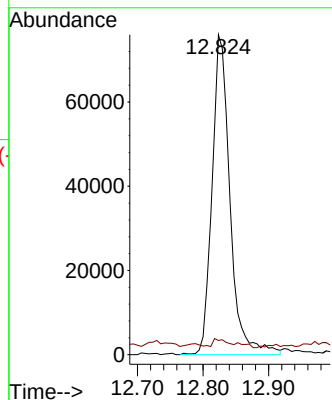
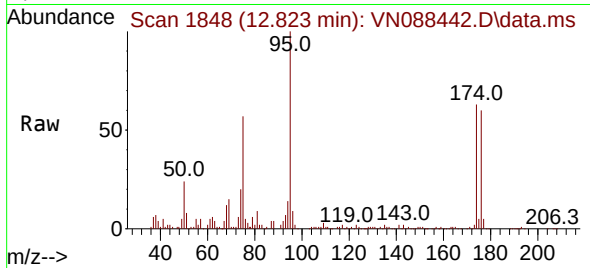




#76
1,2,3-Trichloropropane
Concen: 28.082 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

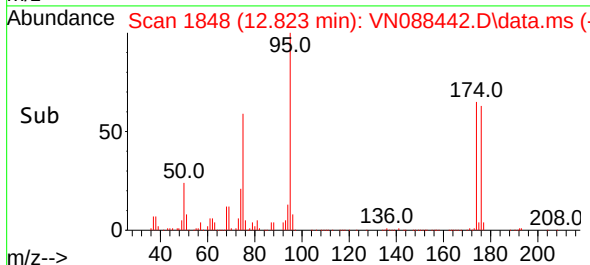
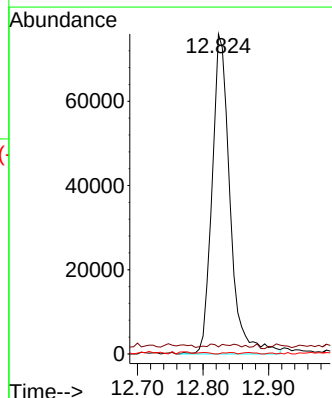
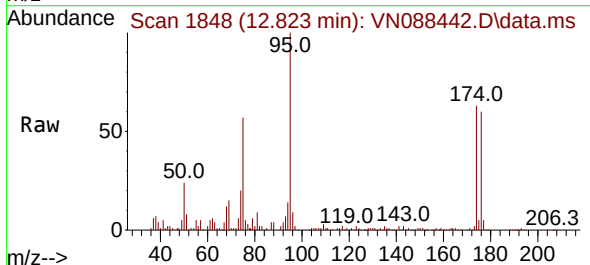
Instrument :
MSVOA_N
ClientSampleId :
IBLK

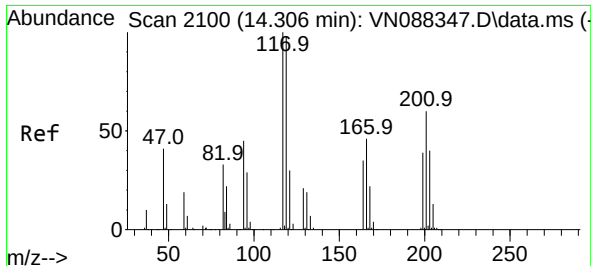
Tgt Ion: 75 Resp: 144221
Ion Ratio Lower Upper
75 100
77 1.6 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.668 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Tgt Ion: 75 Resp: 144221
Ion Ratio Lower Upper
75 100
53 0.3 92.2 138.4#
89 0.3 0.0 0.0#

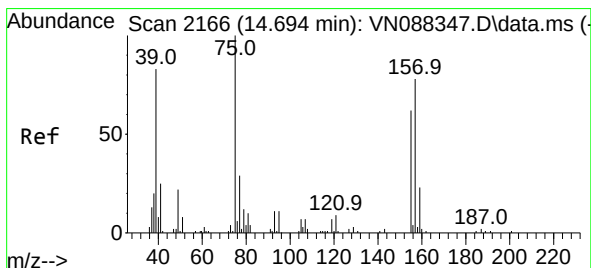
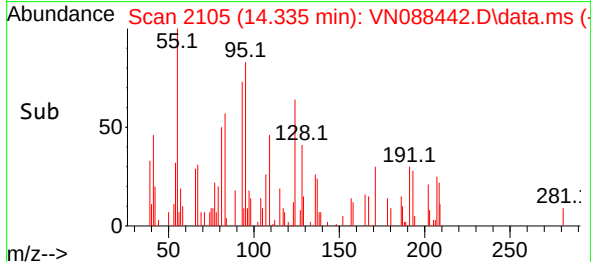
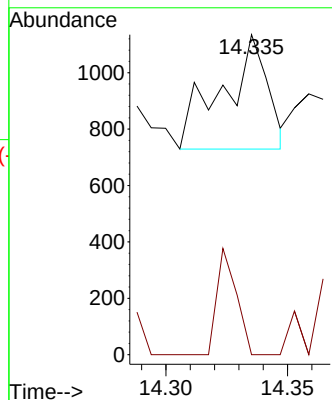
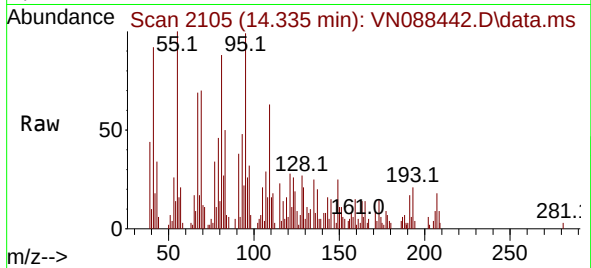




#90
Hexachloroethane
Concen: 0.214 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.030 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

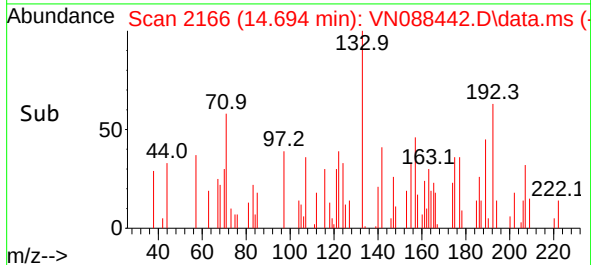
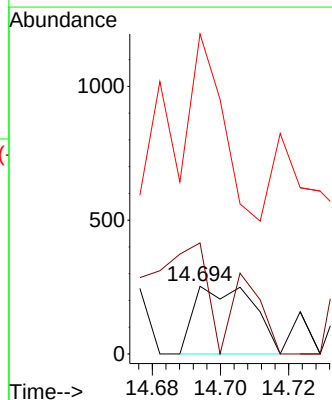
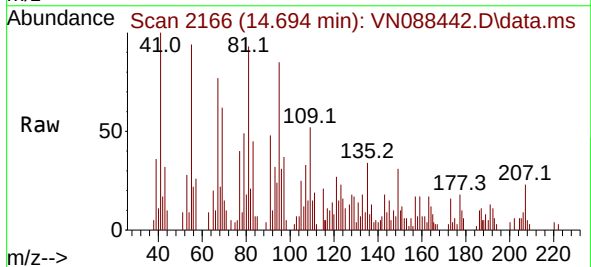
Instrument :
MSVOA_N
ClientSampleId :
IBLK

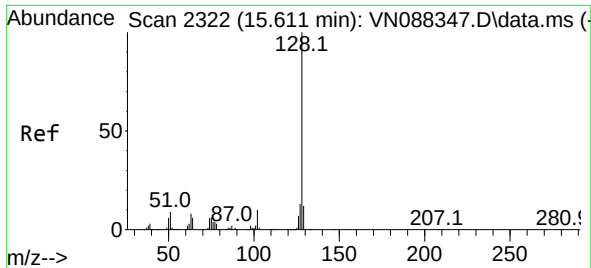
Tgt Ion:117 Resp: 527
Ion Ratio Lower Upper
117 100
201 39.5 30.3 90.9



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.240 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. 0.000 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

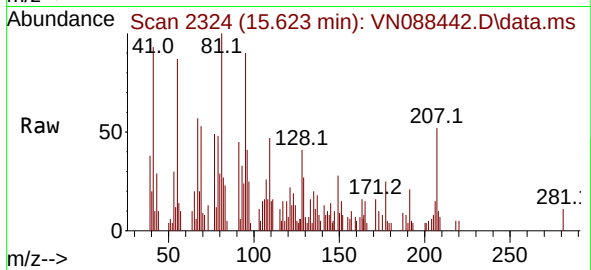
Tgt Ion: 75 Resp: 305
Ion Ratio Lower Upper
75 100
155 187.2 33.7 101.1#
157 334.4 43.8 131.3#





#95
Naphthalene
Concen: 0.269 ug/l
RT: 15.623 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN088442.D
Acq: 04 Dec 2025 13:52

Instrument :
MSVOA_N
ClientSampleId :
IBLK



Tgt Ion:128 Resp: 3766
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 36.0 9.0 13.6#

