

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052225\
 Data File : VN086763.D
 Acq On : 22 May 2025 13:55
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: May 23 01:38:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

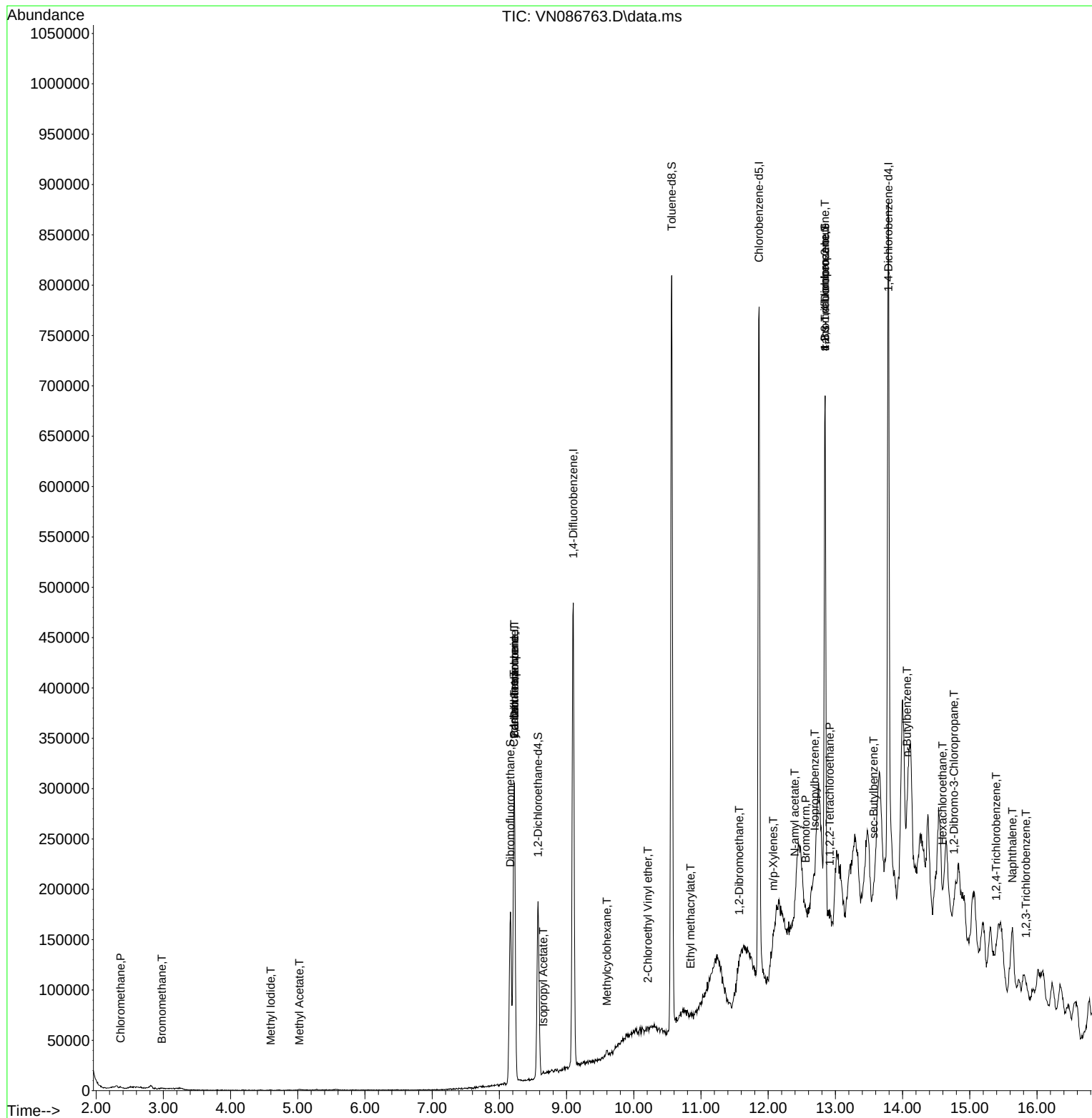
Internal Standards						
1) Pentafluorobenzene	8.224	168	230781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	433728	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	420745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	187182	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	141268	44.299	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.600%		
35) Dibromofluoromethane	8.165	113	127989	49.550	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.100%		
50) Toluene-d8	10.565	98	561229	52.431	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.860%		
62) 4-Bromofluorobenzene	12.847	95	202176	53.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.980%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1019	0.270	ug/l	91
5) Bromomethane	2.977	94	594	0.304	ug/l	87
10) Methyl Iodide	4.600	142	932	0.309	ug/l #	43
18) Methyl Acetate	5.024	43	1642	0.492	ug/l #	63
31) Cyclohexane	8.218	56	4767	0.996	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	16866	4.427	ug/l #	52
38) Carbon Tetrachloride	8.224	117	23521	6.266	ug/l #	16
39) Methylcyclohexane	9.600	83	2696	0.654	ug/l #	60
43) Isopropyl Acetate	8.653	43	2535	0.329	ug/l #	54
56) Ethyl methacrylate	10.847	69	1643	0.355	ug/l #	58
58) 2-Chloroethyl Vinyl ether	10.212	63	749	0.362	ug/l	94
61) 1,2-Dibromoethane	11.571	107	1034	0.357	ug/l	86
68) m/p-Xylenes	12.076	106	1888	0.315	ug/l	97
71) Bromoform	12.559	173	1786	0.843	ug/l #	59
73) Isopropylbenzene	12.694	105	3262	0.226	ug/l	77
74) N-amyl acetate	12.394	43	2051	0.340	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.918	83	1680	0.378	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	93293	22.038	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93293	55.616	ug/l #	15
85) sec-Butylbenzene	13.570	105	6751	0.498	ug/l	79
89) n-Butylbenzene	14.065	91	2392	0.260	ug/l #	59
90) Hexachloroethane	14.594	117	369	0.200	ug/l	61
92) 1,2-Dibromo-3-Chloropr...	14.765	75	352	0.478	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.394	180	860	0.340	ug/l #	65
95) Naphthalene	15.635	128	36387	4.145	ug/l #	61
96) 1,2,3-Trichlorobenzene	15.835	180	719	0.290	ug/l #	56

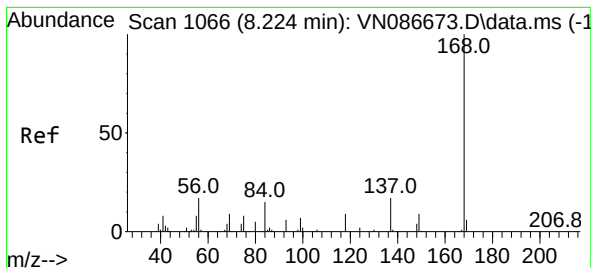
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat May 17 00:46:13 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

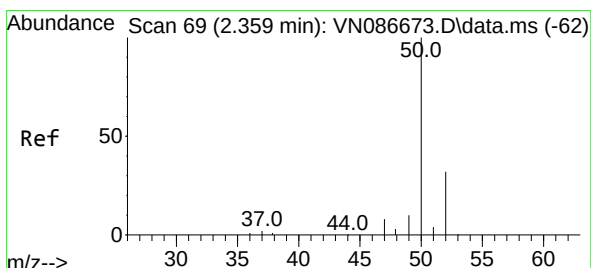
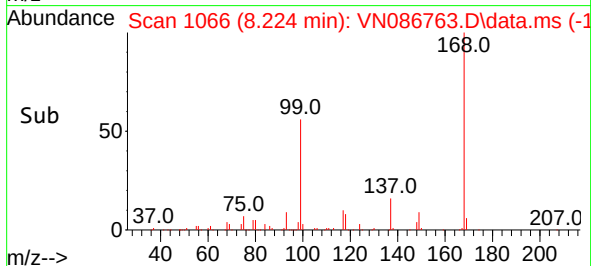
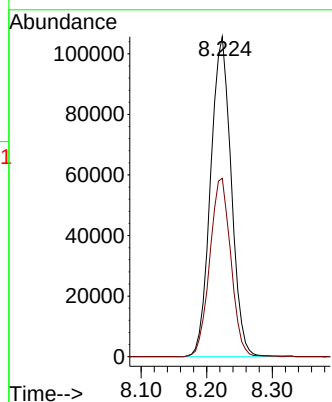
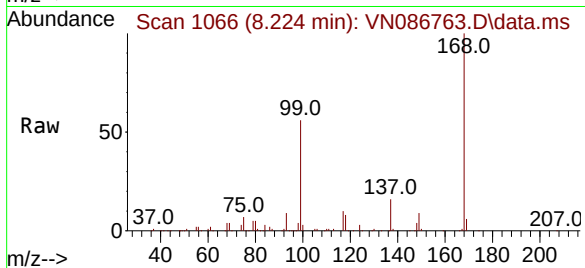
IBLK

Tgt Ion:168 Resp: 230781

Ion Ratio Lower Upper

168 100

99 55.8 47.0 70.4



#3

Chloromethane

Concen: 0.270 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN086763.D

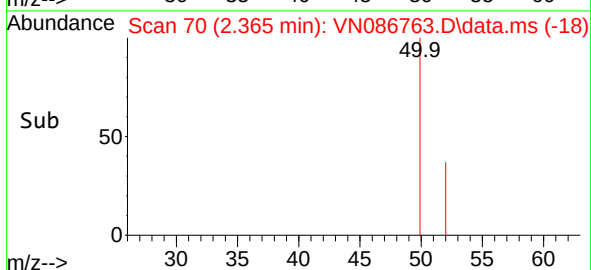
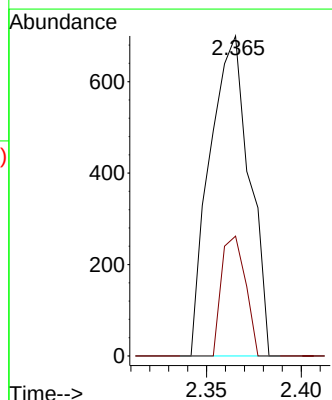
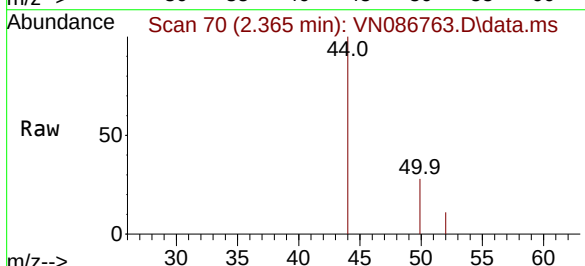
Acq: 22 May 2025 13:55

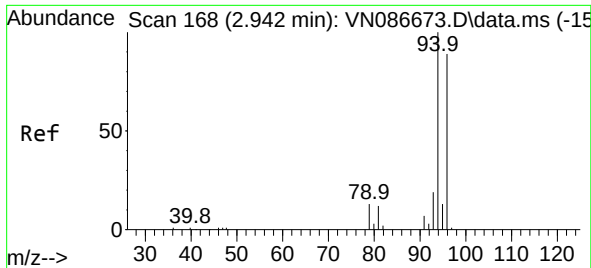
Tgt Ion: 50 Resp: 1019

Ion Ratio Lower Upper

50 100

52 37.4 25.9 38.9

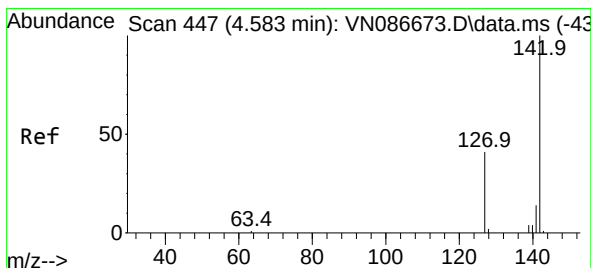
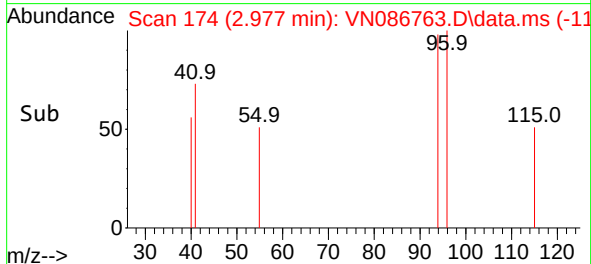
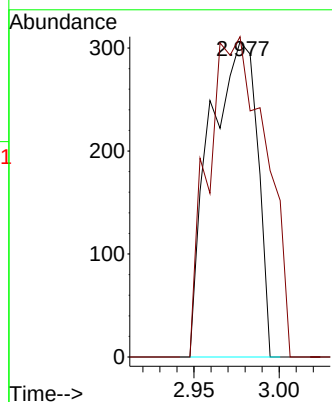
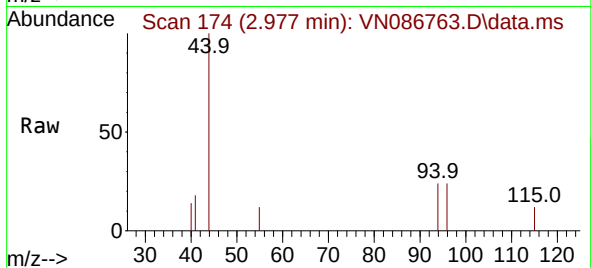




#5
Bromomethane
Concen: 0.304 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

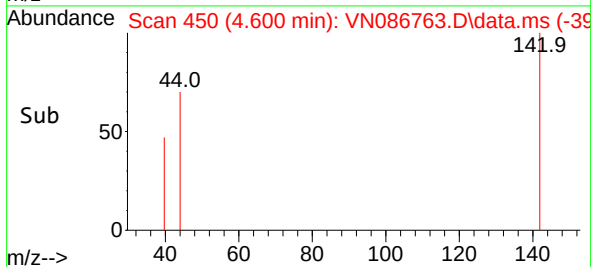
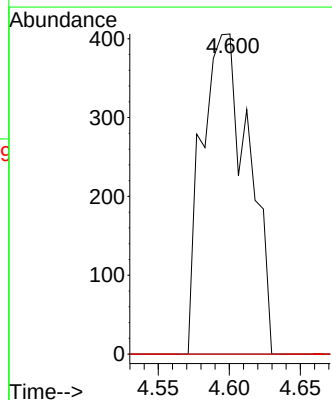
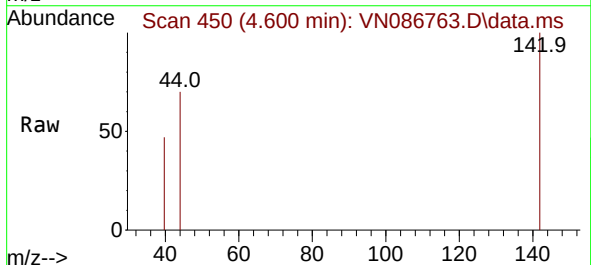
Instrument :
MSVOA_N
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IBLK

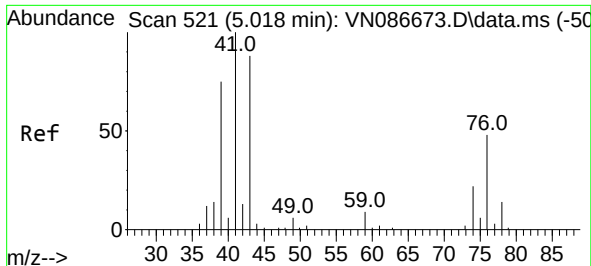
Tgt Ion: 94 Resp: 594
Ion Ratio Lower Upper
94 100
96 101.6 71.2 106.8



#10
Methyl Iodide
Concen: 0.309 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.018 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion:142 Resp: 932
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#

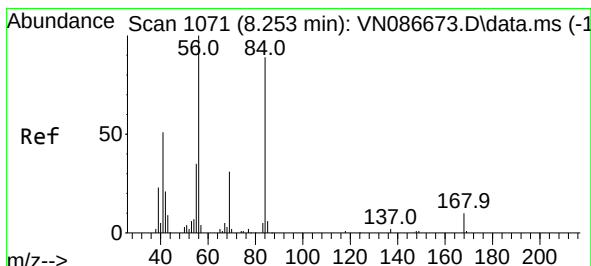
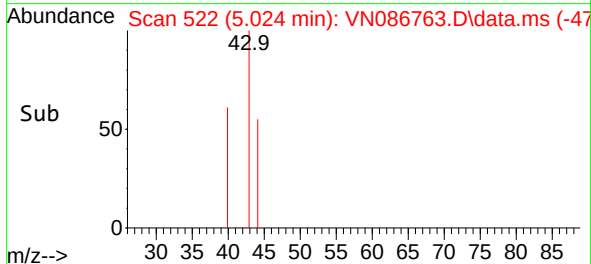
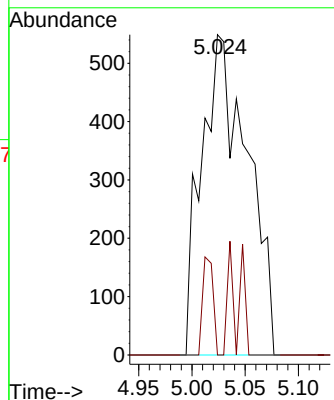
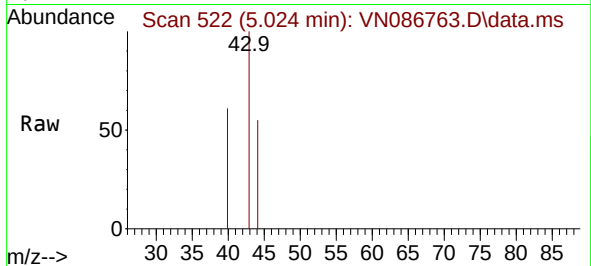




#18
Methyl Acetate
Concen: 0.492 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

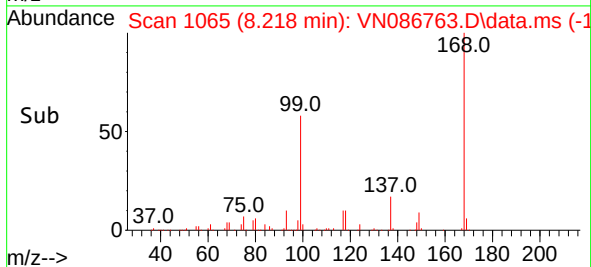
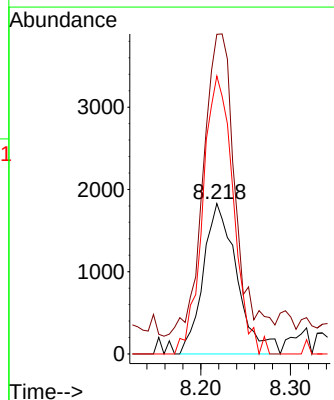
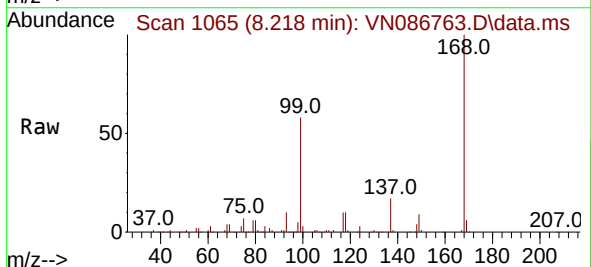
Instrument :
MSVOA_N
ClientSampleId :
IBLK

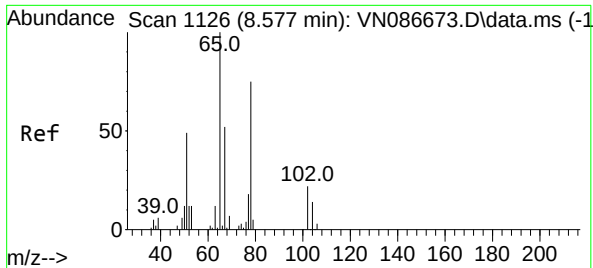
Tgt Ion: 43 Resp: 1642
Ion Ratio Lower Upper
43 100
74 7.0 20.5 30.7#



#31
Cyclohexane
Concen: 0.996 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion: 56 Resp: 4767
Ion Ratio Lower Upper
56 100
69 188.4 25.0 37.6#
84 184.7 71.0 106.4#

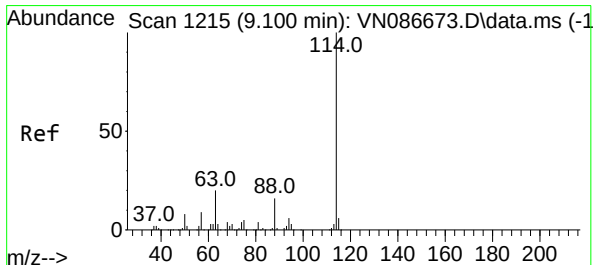
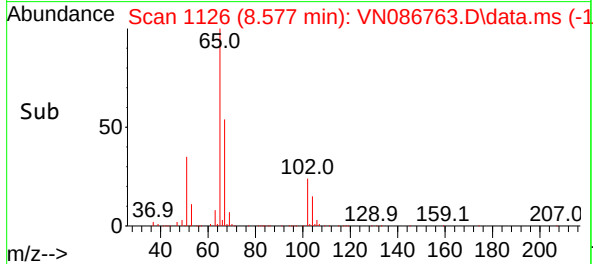
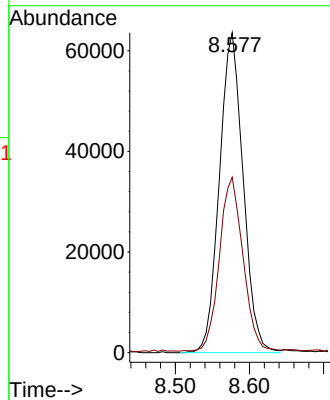
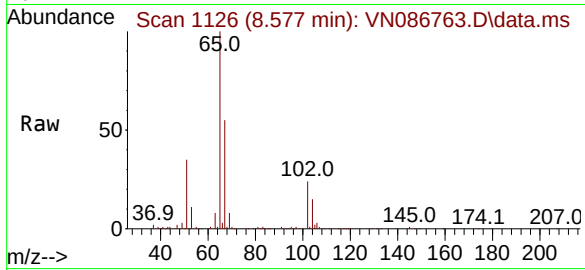




#33
 1,2-Dichloroethane-d4
 Concen: 44.299 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086763.D
 Acq: 22 May 2025 13:55

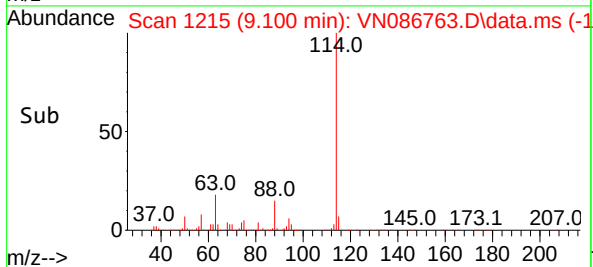
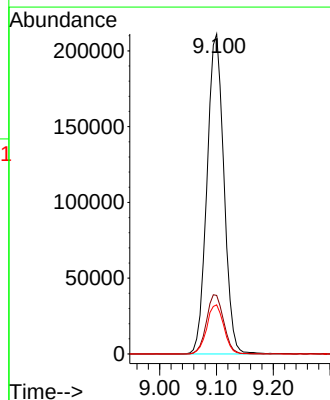
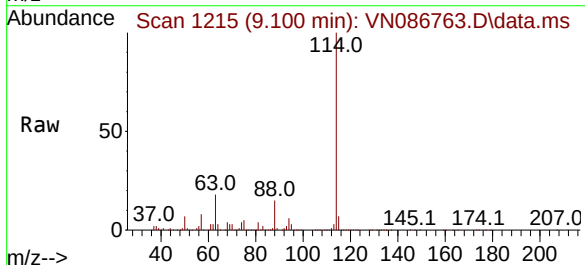
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

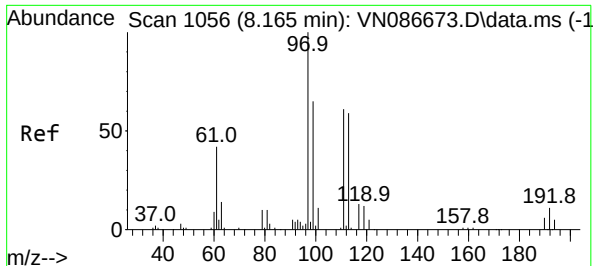
Tgt Ion: 65 Resp: 141268
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086763.D
 Acq: 22 May 2025 13:55

Tgt Ion: 114 Resp: 433728
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 40.2
 88 15.4 0.0 31.2





#35

Dibromofluoromethane

Concen: 49.550 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

IBLK

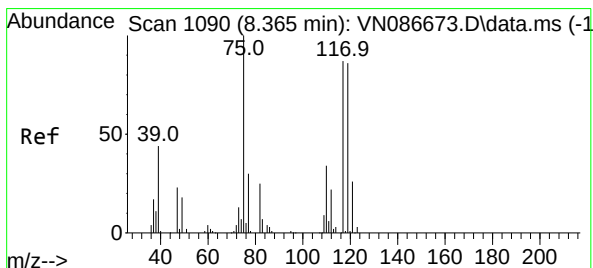
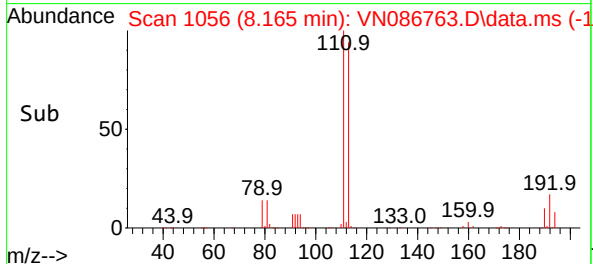
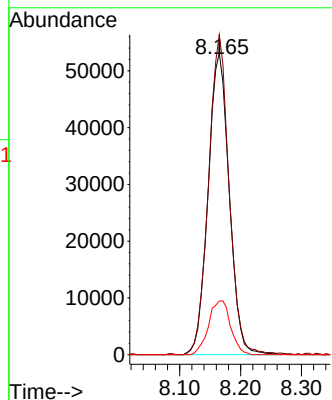
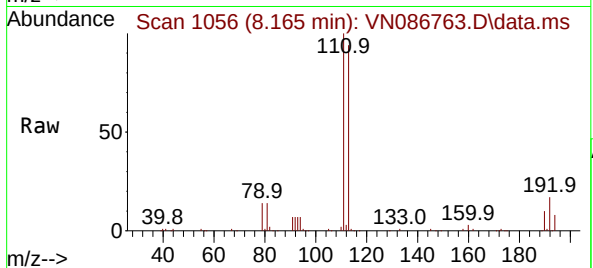
Tgt Ion:113 Resp: 127989

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.2

192 18.6 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.427 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

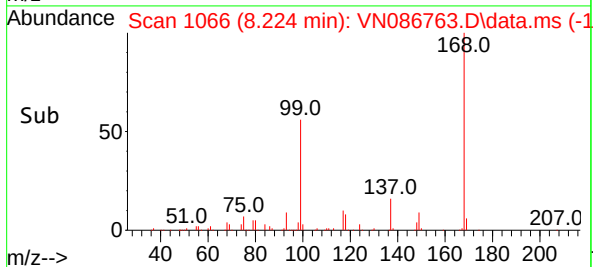
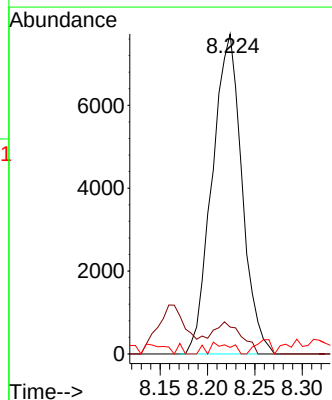
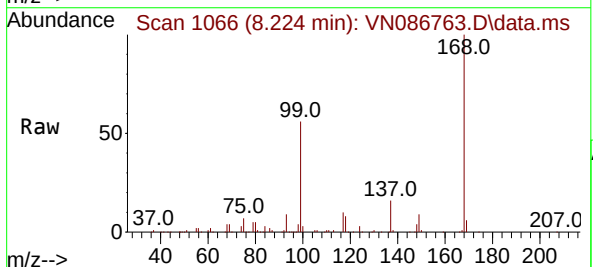
Tgt Ion: 75 Resp: 16866

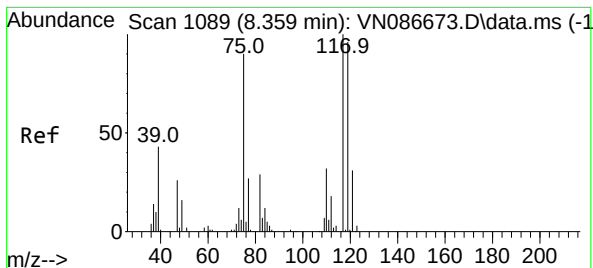
Ion Ratio Lower Upper

75 100

110 9.0 17.5 52.5#

77 2.7 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.266 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086763.D

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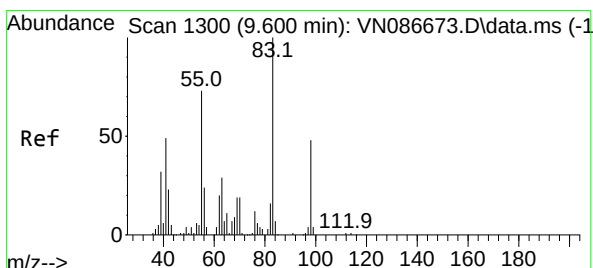
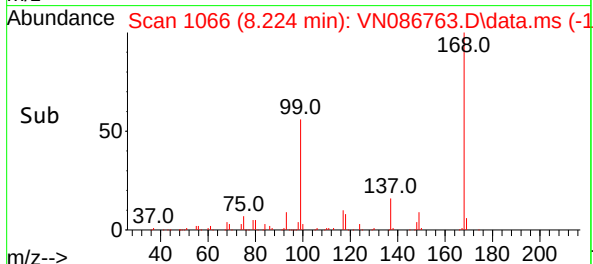
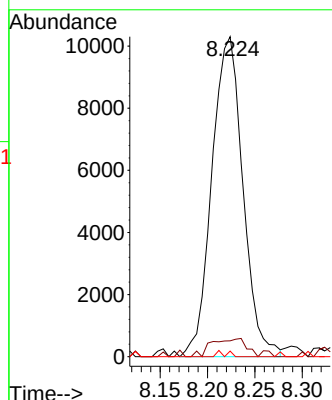
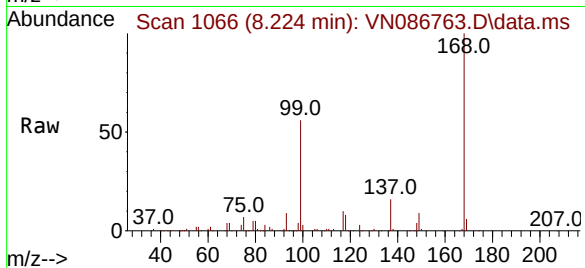
Tgt Ion:117 Resp: 23521

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.6#

121 1.7 25.0 37.6#



#39

Methylcyclohexane

Concen: 0.654 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

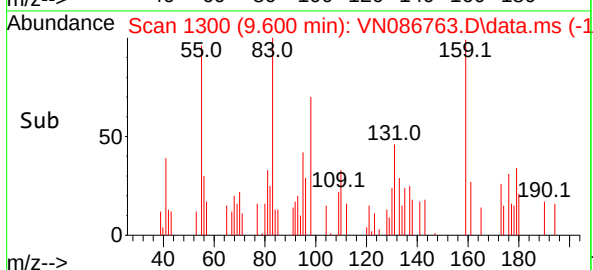
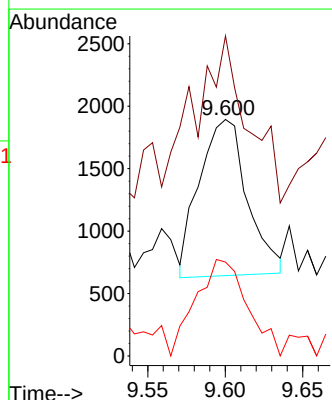
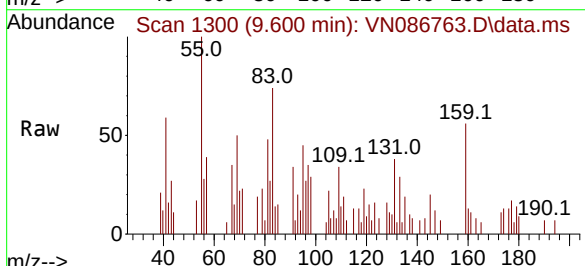
Tgt Ion: 83 Resp: 2696

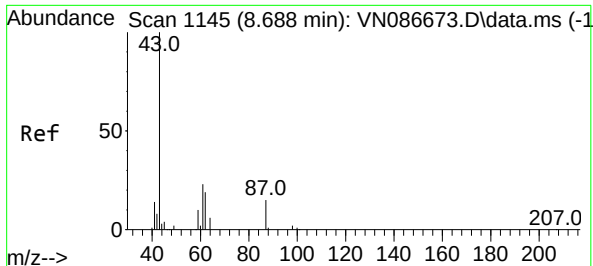
Ion Ratio Lower Upper

83 100

55 114.8 58.2 87.4#

98 64.5 38.4 57.6#





#43

Isopropyl Acetate

Concen: 0.329 ug/l

RT: 8.653 min Scan# 1145

Delta R.T. -0.035 min

Lab File: VN086763.D

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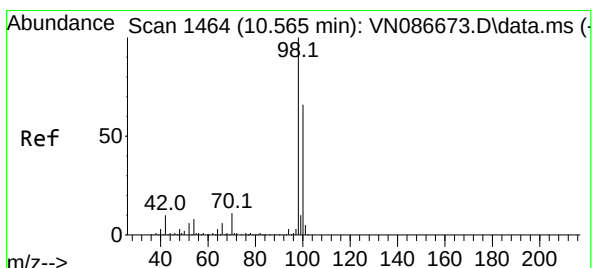
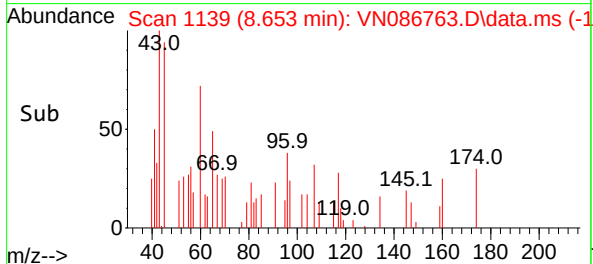
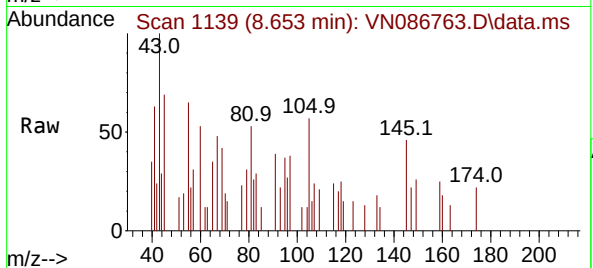
Tgt Ion: 43 Resp: 2535

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.2#

87 0.0 11.1 16.7#



#50

Toluene-d8

Concen: 52.431 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086763.D

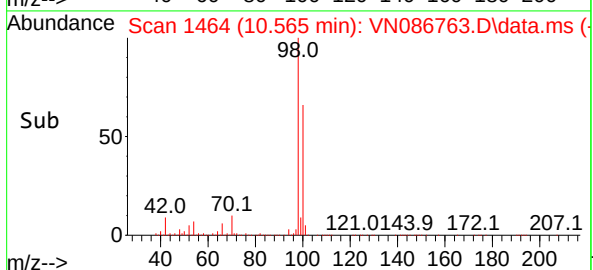
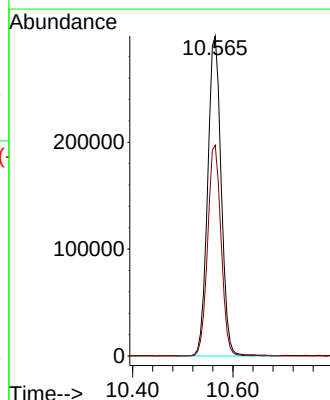
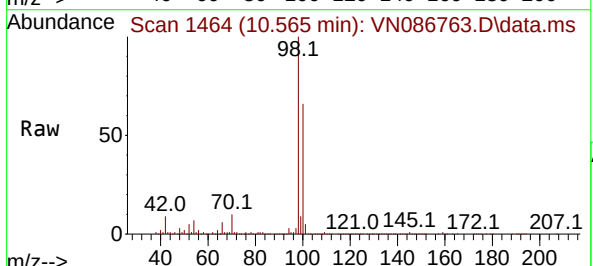
Acq: 22 May 2025 13:55

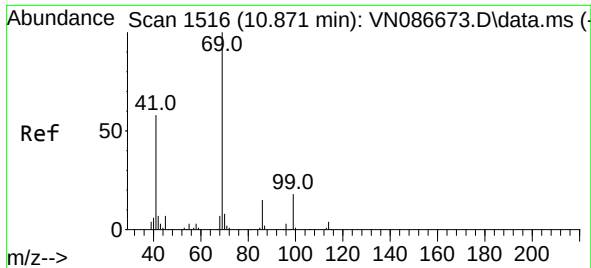
Tgt Ion: 98 Resp: 561229

Ion Ratio Lower Upper

98 100

100 65.4 52.9 79.3

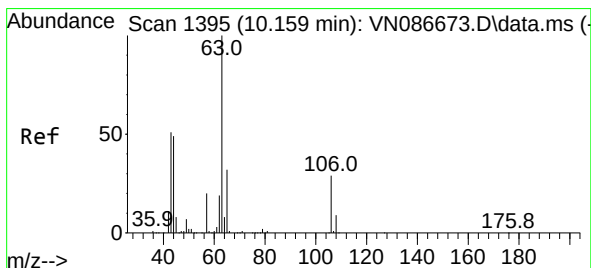
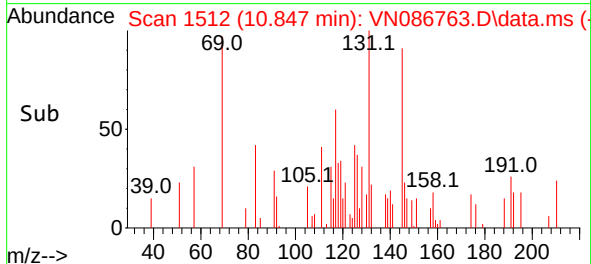
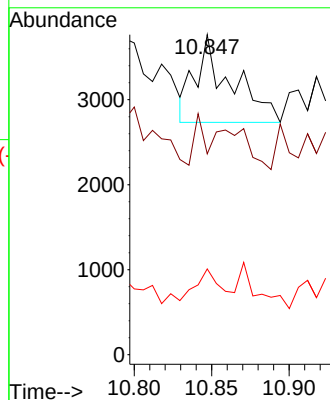
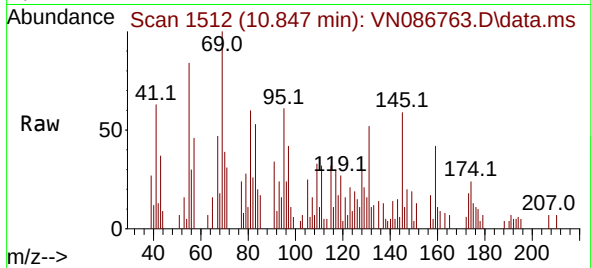




#56
Ethyl methacrylate
Concen: 0.355 ug/l
RT: 10.847 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

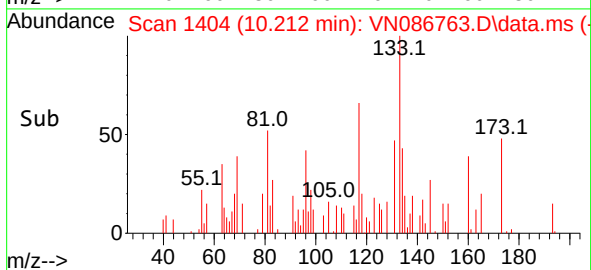
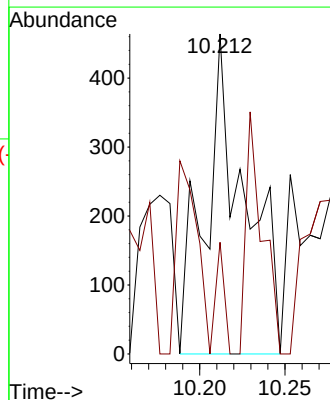
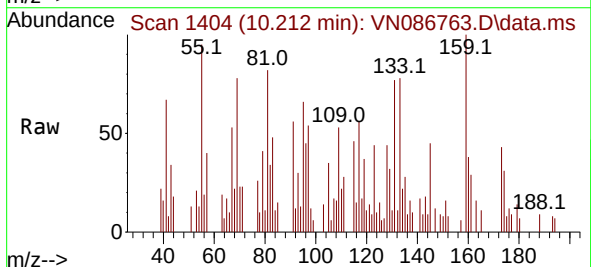
Instrument :
MSVOA_N
ClientSampleId :
IBLK

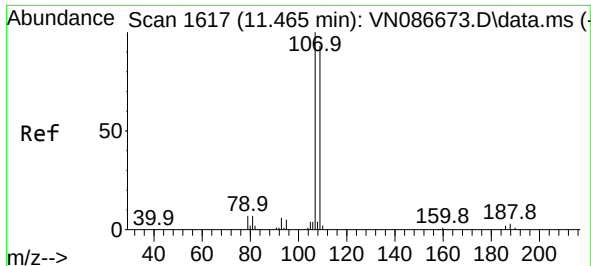
Tgt Ion: 69 Resp: 1643
Ion Ratio Lower Upper
69 100
41 15.9 47.4 71.0#
39 23.4 24.0 36.0#



#58
2-Chloroethyl Vinyl ether
Concen: 0.362 ug/l
RT: 10.212 min Scan# 1404
Delta R.T. 0.053 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion: 63 Resp: 749
Ion Ratio Lower Upper
63 100
106 32.0 23.1 34.7

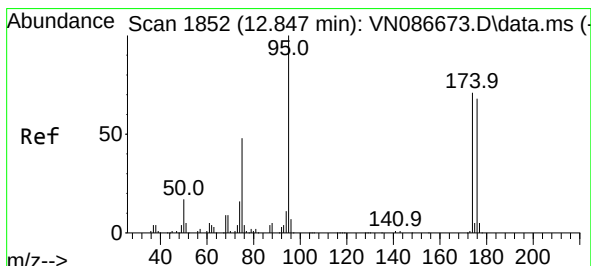
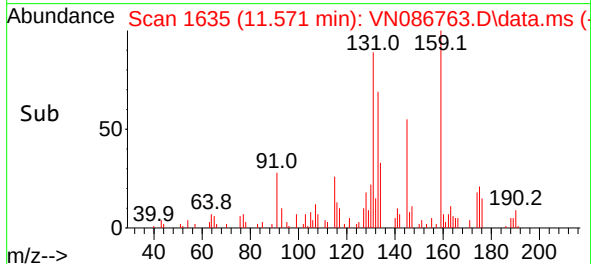
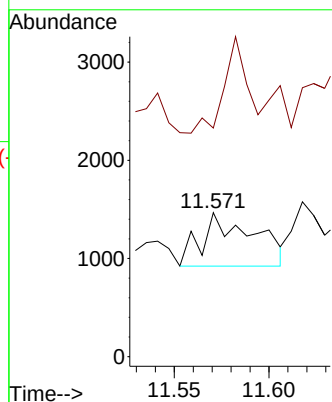
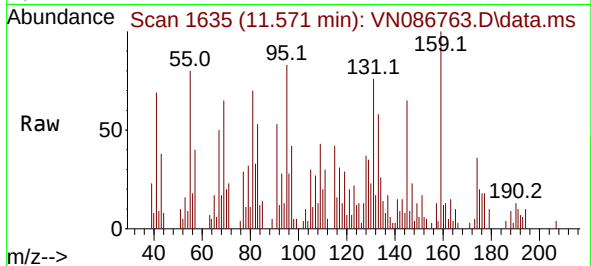




#61
1,2-Dibromoethane
Concen: 0.357 ug/l
RT: 11.571 min Scan# 1617
Delta R.T. 0.106 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

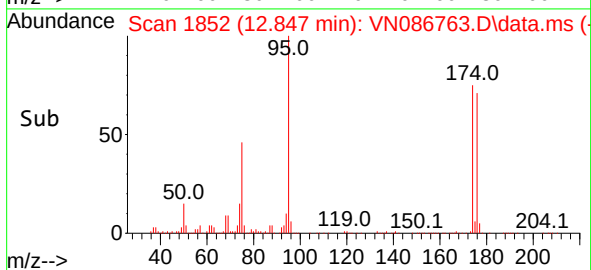
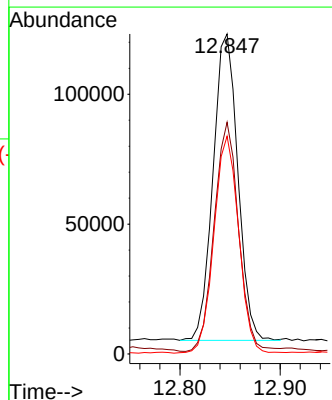
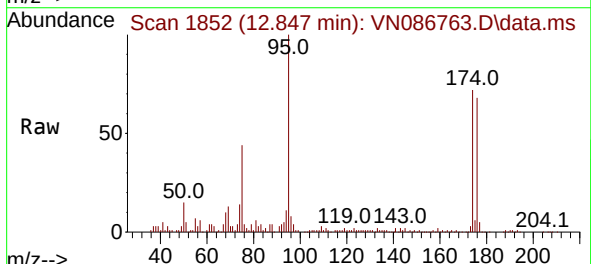
Instrument :
MSVOA_N
ClientSampleId :
IBLK

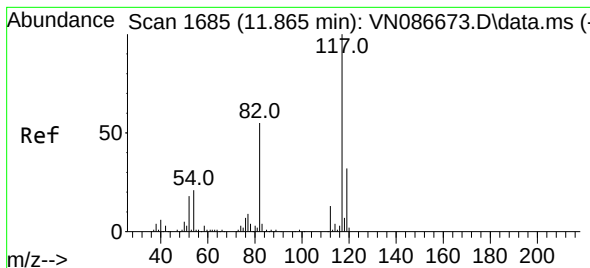
Tgt Ion:107 Resp: 1034
Ion Ratio Lower Upper
107 100
109 80.0 75.0 112.4



#62
4-Bromofluorobenzene
Concen: 53.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion: 95 Resp: 202176
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.4
176 70.7 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

IBLK

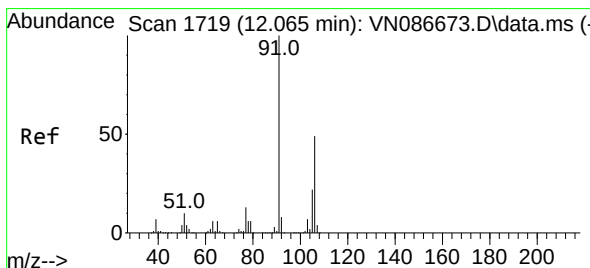
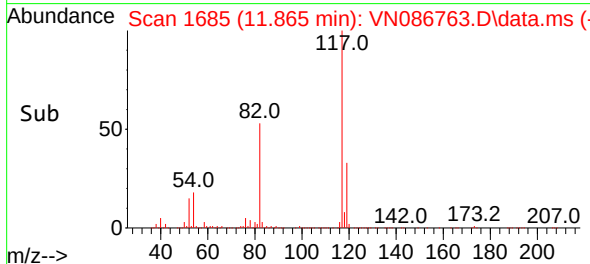
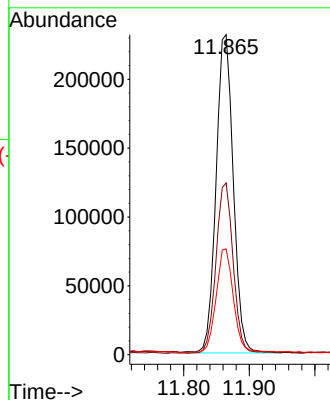
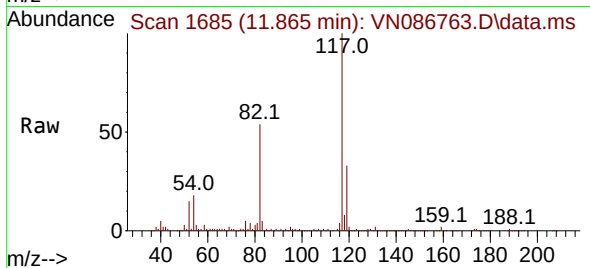
Tgt Ion:117 Resp: 420745

Ion Ratio Lower Upper

117 100

82 53.5 44.2 66.2

119 32.5 25.4 38.2



#68

m/p-Xylenes

Concen: 0.315 ug/l

RT: 12.076 min Scan# 1721

Delta R.T. 0.012 min

Lab File: VN086763.D

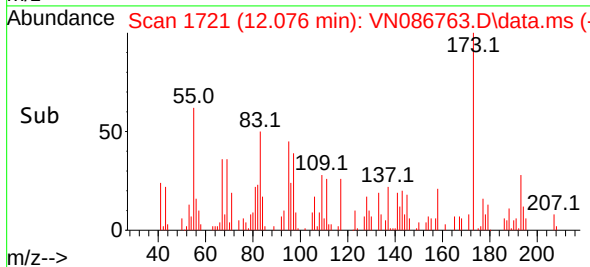
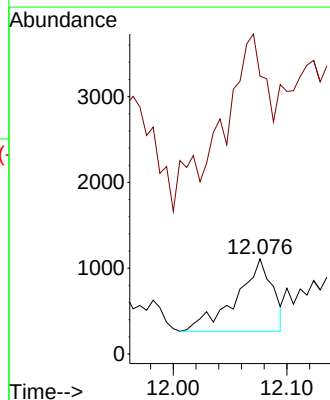
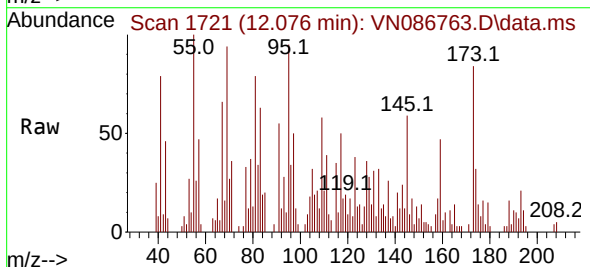
Acq: 22 May 2025 13:55

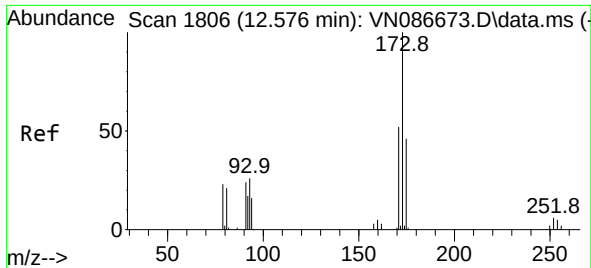
Tgt Ion:106 Resp: 1888

Ion Ratio Lower Upper

106 100

91 199.2 162.4 243.6

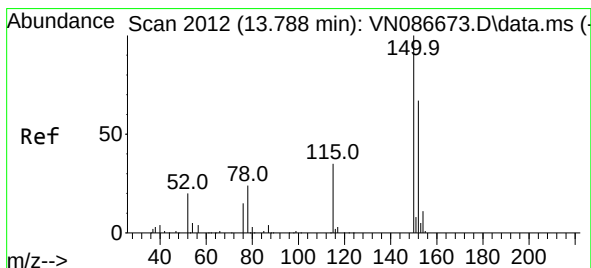
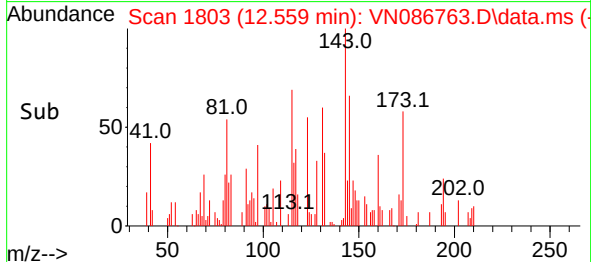
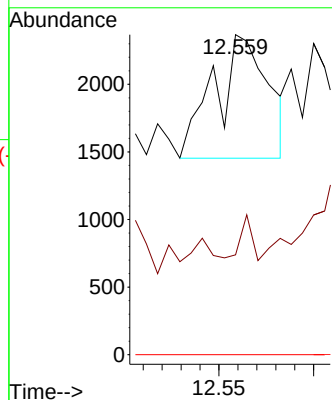
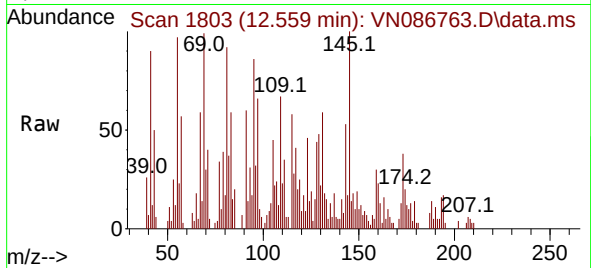




#71
Bromoform
Concen: 0.843 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.018 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

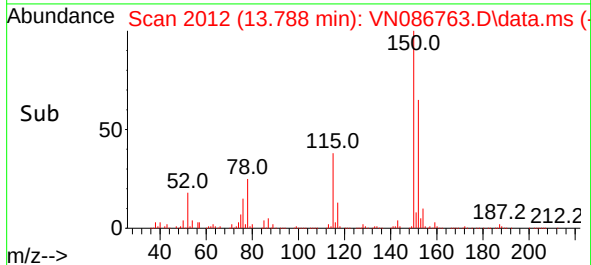
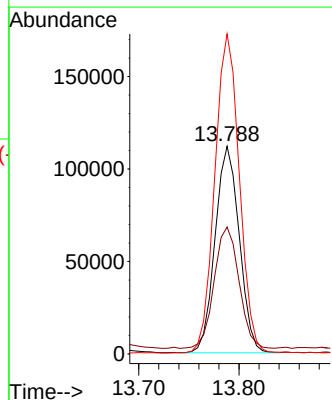
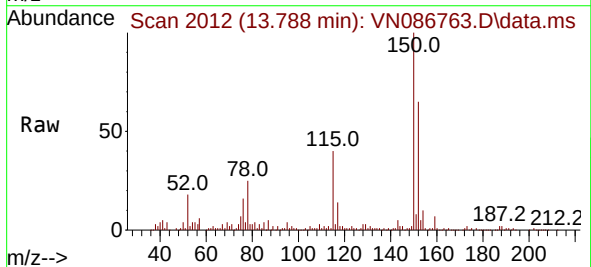
Instrument :
MSVOA_N
ClientSampleId :
IBLK

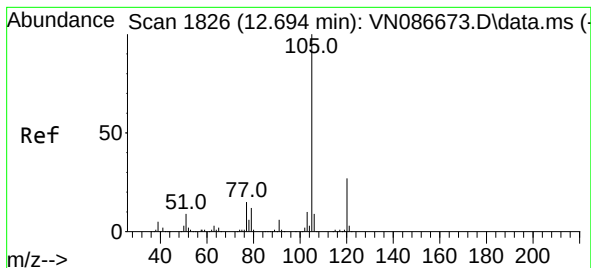
Tgt Ion:173 Resp: 1786
Ion Ratio Lower Upper
173 100
175 19.1 23.4 70.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion:152 Resp: 187182
Ion Ratio Lower Upper
152 100
115 60.4 30.0 90.1
150 156.7 0.0 347.8





#73

Isopropylbenzene

Concen: 0.226 ug/l

RT: 12.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

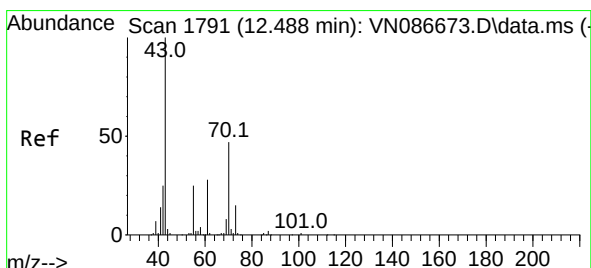
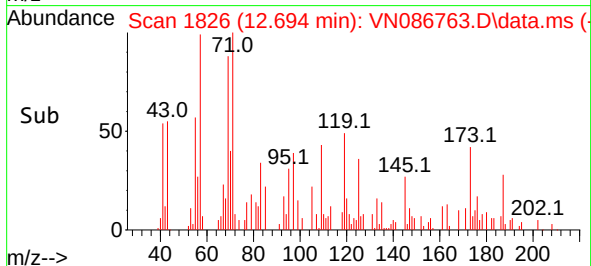
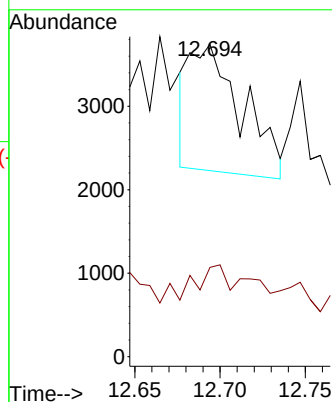
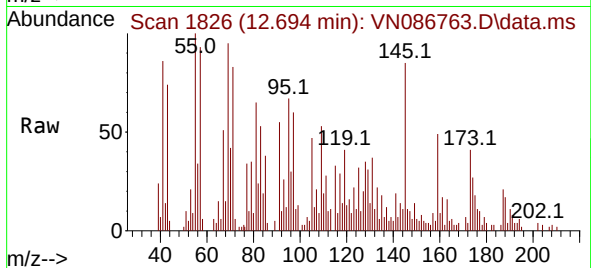
IBLK

Tgt Ion:105 Resp: 3262

Ion Ratio Lower Upper

105 100

120 14.7 13.4 40.1



#74

N-ethyl acetate

Concen: 0.340 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.094 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Tgt Ion: 43 Resp: 2051

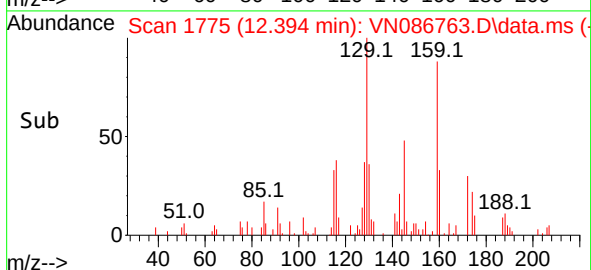
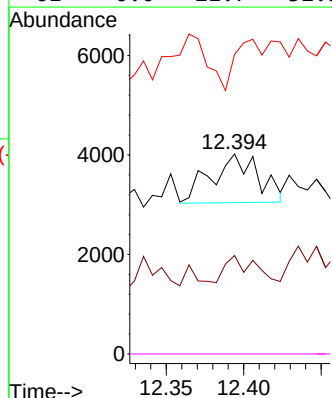
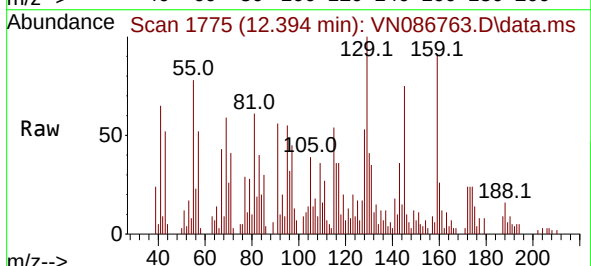
Ion Ratio Lower Upper

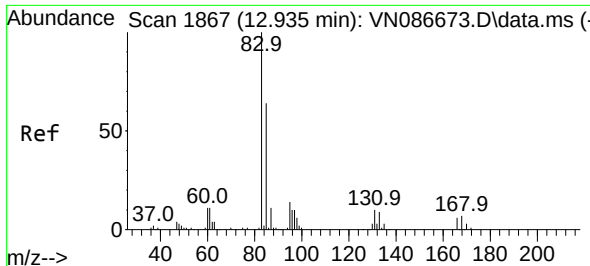
43 100

70 32.9 37.9 56.9#

55 59.0 20.5 30.7#

61 0.0 21.7 32.5#

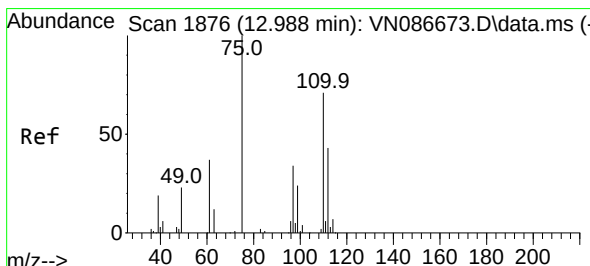
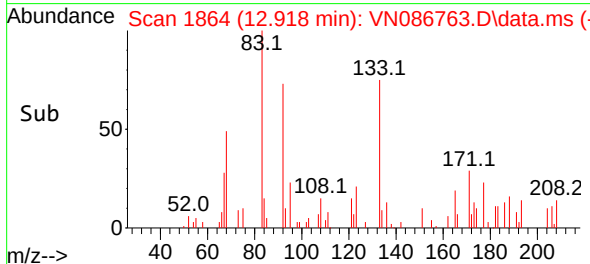
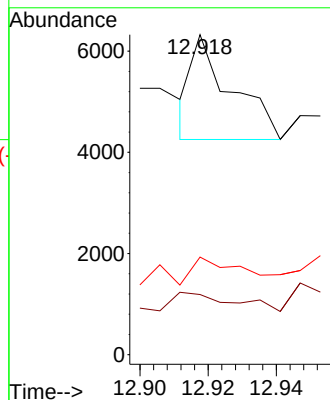
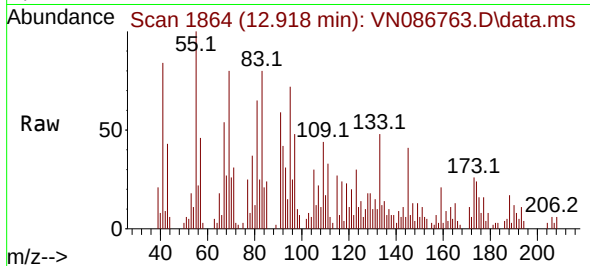




#75
1,1,2,2-Tetrachloroethane
Concen: 0.378 ug/l
RT: 12.918 min Scan# 1852
Delta R.T. -0.018 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

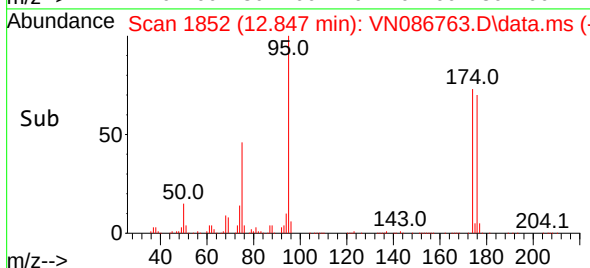
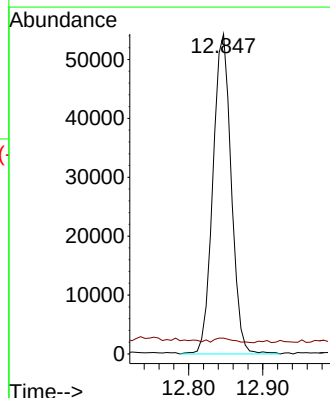
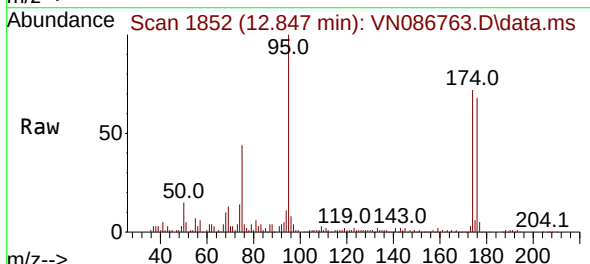
Instrument :
MSVOA_N
ClientSampleId :
IBLK

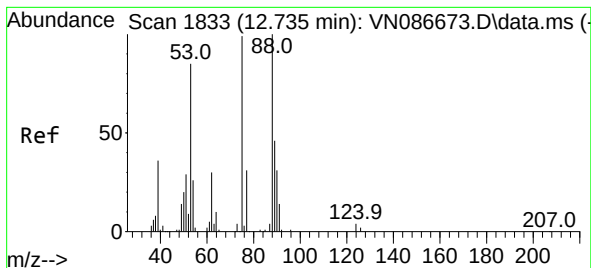
Tgt Ion: 83 Resp: 1680
Ion Ratio Lower Upper
83 100
131 21.4 5.0 15.0#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 22.038 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion: 75 Resp: 93293
Ion Ratio Lower Upper
75 100
77 1.7 96.0 288.1#

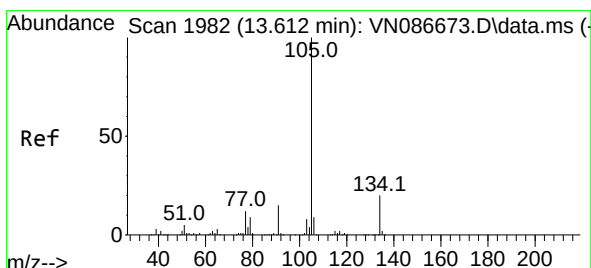
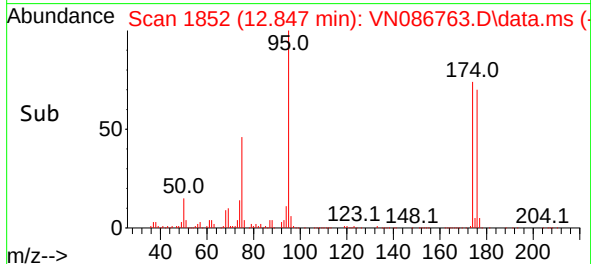
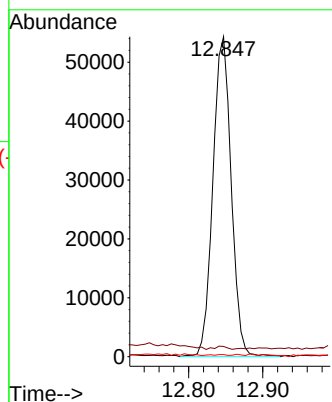
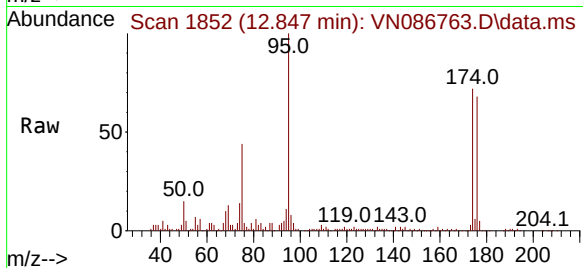




#81
trans-1,4-Dichloro-2-butene
Concen: 55.616 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

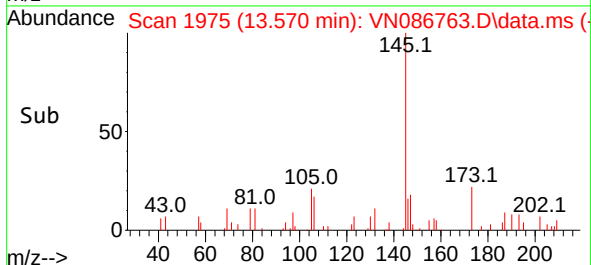
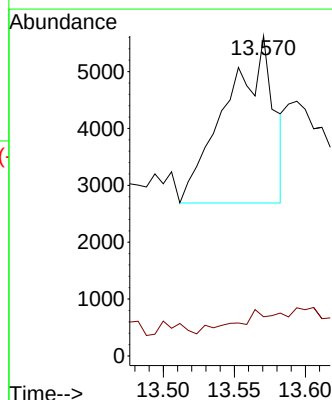
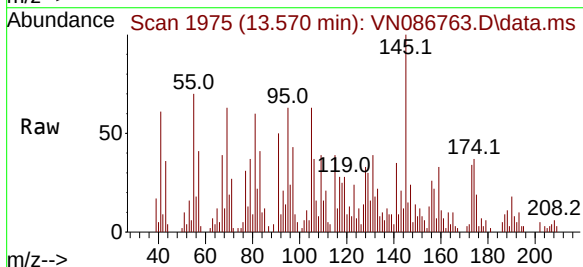
Instrument :
MSVOA_N
ClientSampleId :
IBLK

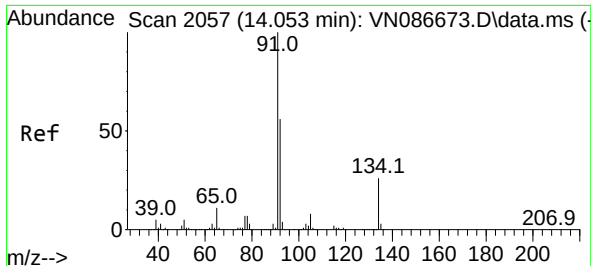
Tgt Ion: 75 Resp: 93293
Ion Ratio Lower Upper
75 100
53 0.7 70.4 105.6#
89 0.3 32.4 48.6#



#85
sec-Butylbenzene
Concen: 0.498 ug/l
RT: 13.570 min Scan# 1975
Delta R.T. -0.041 min
Lab File: VN086763.D
Acq: 22 May 2025 13:55

Tgt Ion: 105 Resp: 6751
Ion Ratio Lower Upper
105 100
134 10.4 10.1 30.1





#89

n-Butylbenzene

Concen: 0.260 ug/l

RT: 14.065 min Scan# 2059

Delta R.T. 0.012 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

IBLK

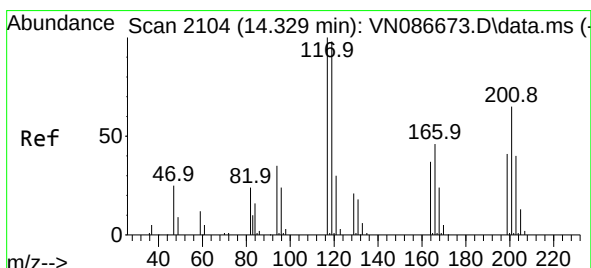
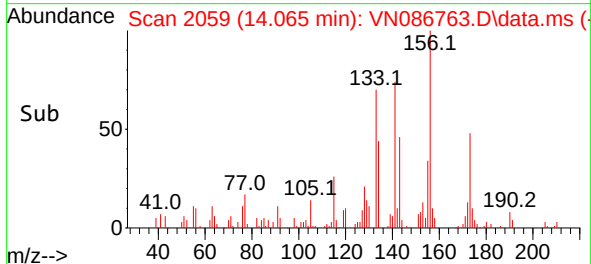
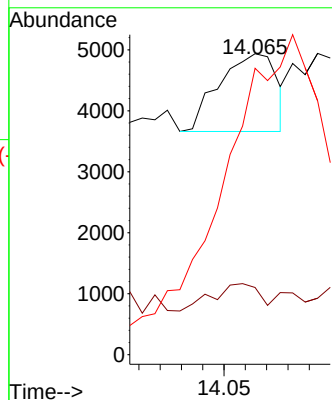
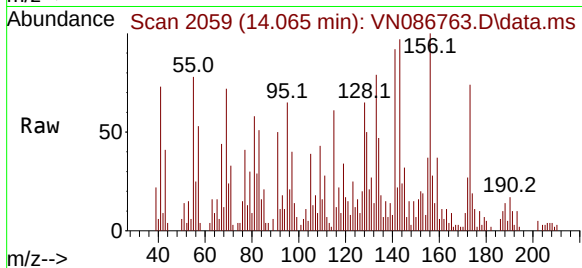
Tgt Ion: 91 Resp: 2392

Ion Ratio Lower Upper

91 100

92 28.3 27.4 82.0

134 0.0 12.8 38.4#



#90

Hexachloroethane

Concen: 0.200 ug/l

RT: 14.594 min Scan# 2149

Delta R.T. 0.265 min

Lab File: VN086763.D

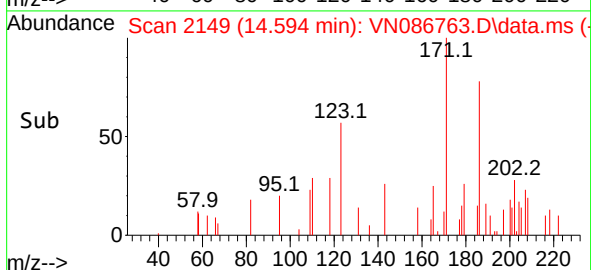
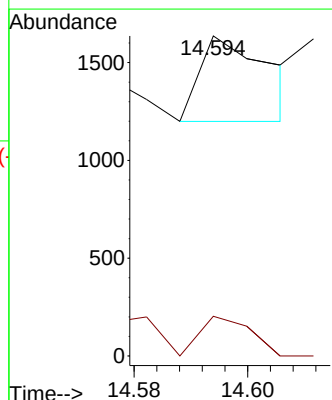
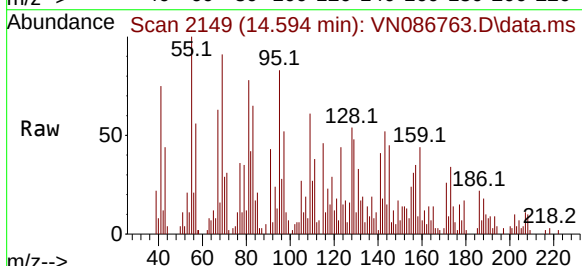
Acq: 22 May 2025 13:55

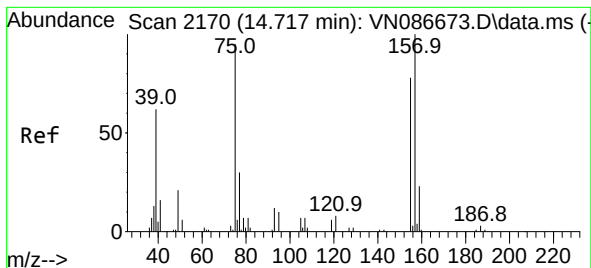
Tgt Ion: 117 Resp: 369

Ion Ratio Lower Upper

117 100

201 33.9 32.0 96.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.478 ug/l

RT: 14.765 min Scan# 2178

Delta R.T. 0.047 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

IBLK

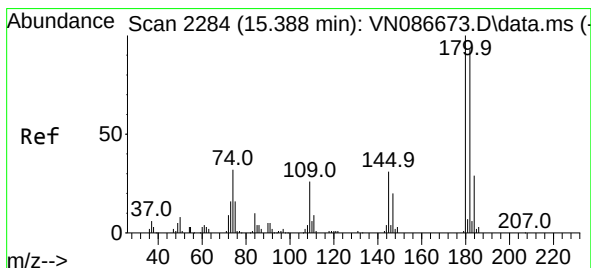
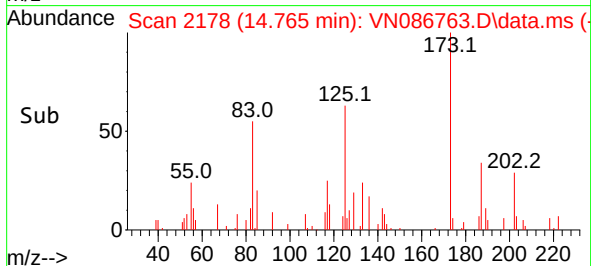
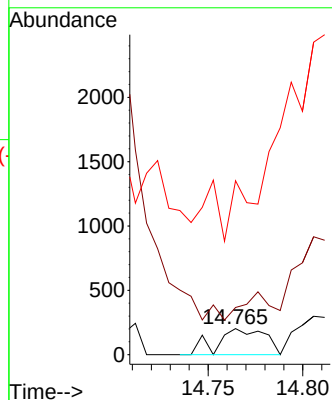
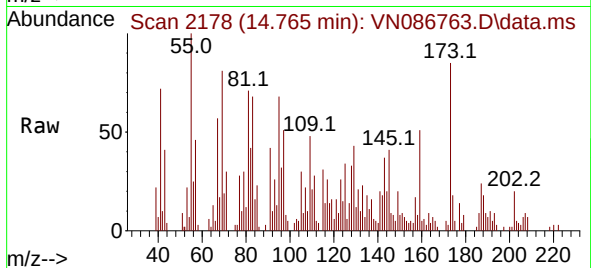
Tgt Ion: 75 Resp: 352

Ion Ratio Lower Upper

75 100

155 0.0 40.5 121.5#

157 0.0 53.6 160.8#



#93

1,2,4-Trichlorobenzene

Concen: 0.340 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

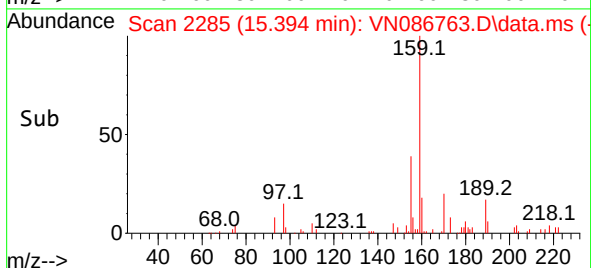
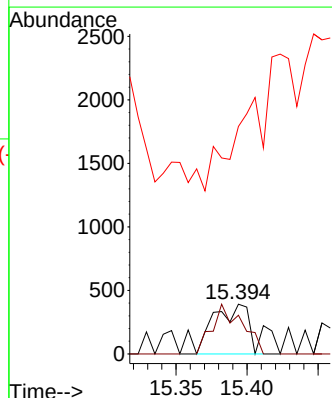
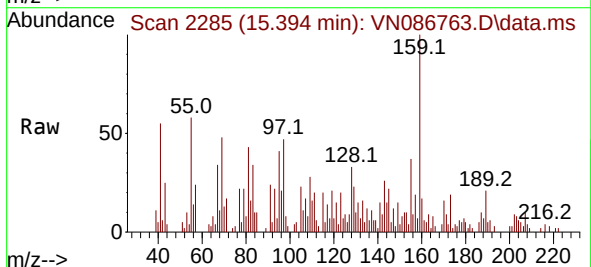
Tgt Ion:180 Resp: 860

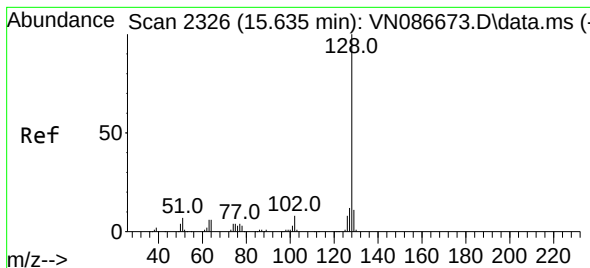
Ion Ratio Lower Upper

180 100

182 67.2 47.1 141.3

145 0.0 15.6 46.8#





#95

Naphthalene

Concen: 4.145 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Instrument :

MSVOA_N

ClientSampleId :

IBLK

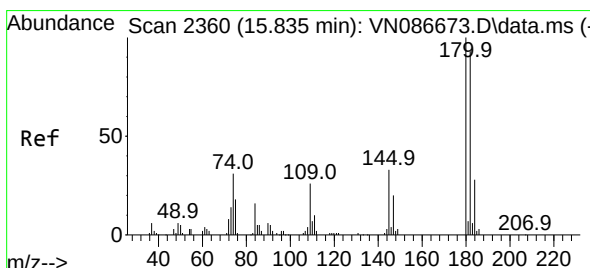
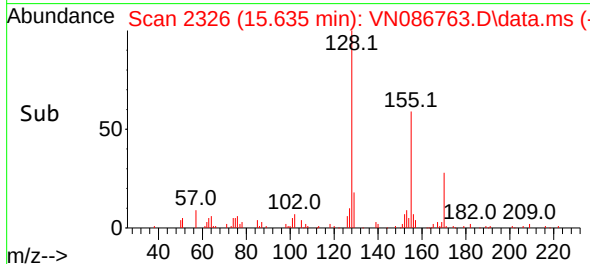
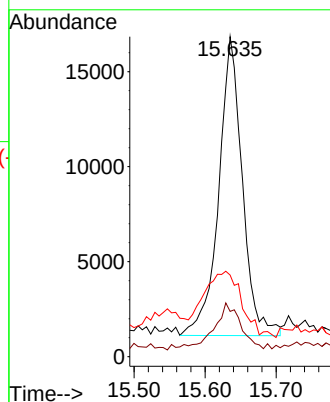
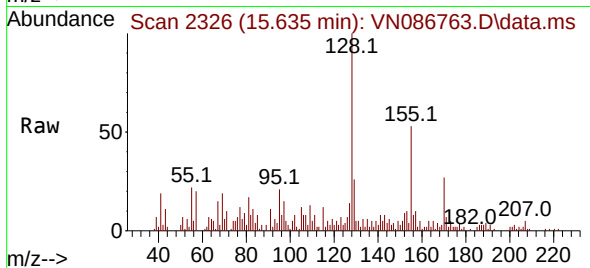
Tgt Ion:128 Resp: 36387

Ion Ratio Lower Upper

128 100

127 18.4 10.1 15.1#

129 36.1 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 0.290 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086763.D

Acq: 22 May 2025 13:55

Tgt Ion:180 Resp: 719

Ion Ratio Lower Upper

180 100

182 57.0 47.0 141.2

145 0.0 16.7 50.1#

