

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091025\
 Data File : VN087782.D
 Acq On : 10 Sep 2025 15:47
 Operator : JC\MD
 Sample : Q3058-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4

Quant Time: Sep 11 02:05:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

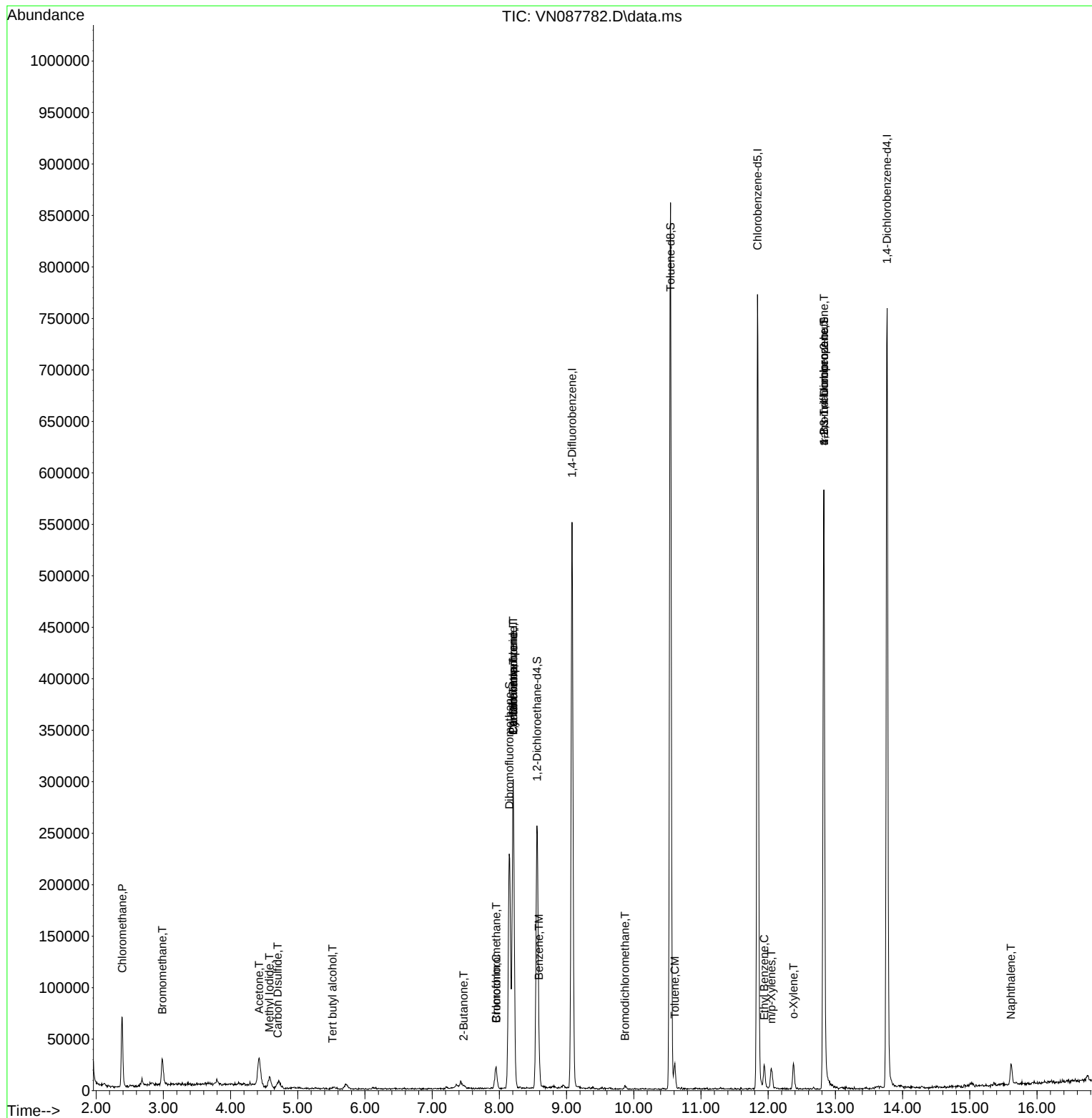
Internal Standards						
1) Pentafluorobenzene	8.206	168	196528	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	453885	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	434796	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	206220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	207855	51.620	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 103.240%		
35) Dibromofluoromethane	8.147	113	164718	50.264	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.520%		
50) Toluene-d8	10.547	98	573709	46.775	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 93.540%		
62) 4-Bromofluorobenzene	12.829	95	205625	47.141	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 94.280%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	69637	24.277	ug/l	95
5) Bromomethane	2.983	94	16998	9.905	ug/l	89
10) Methyl Iodide	4.577	142	18472	14.554	ug/l #	96
11) Tert butyl alcohol	5.518	59	1274	1.823	ug/l #	71
16) Acetone	4.424	43	50618	23.092	ug/l	97
17) Carbon Disulfide	4.700	76	5929	0.760	ug/l #	88
20) Methylene Chloride	5.265	84	358	Below Cal	#	21
25) 2-Butanone	7.471	43	2045	0.709	ug/l #	89
28) Bromochloromethane	7.953	49	1963	0.668	ug/l #	19
30) Chloroform	7.953	83	18426	2.971	ug/l	87
31) Cyclohexane	8.206	56	6154	1.215	ug/l #	34
36) 1,1-Dichloropropene	8.206	75	19784	3.935	ug/l #	50
38) Carbon Tetrachloride	8.206	117	23442	4.723	ug/l #	14
40) Benzene	8.588	78	12142	0.787	ug/l	97
47) Bromodichloromethane	9.871	83	2163	0.365	ug/l #	70
52) Toluene	10.612	92	10092	1.056	ug/l	85
67) Ethyl Benzene	11.941	91	15321	0.818	ug/l	95
68) m/p-Xylenes	12.047	106	6766	0.985	ug/l	99
69) o-Xylene	12.376	106	7363	1.094	ug/l	96
76) 1,2,3-Trichloropropane	12.829	75	113287	23.426	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	113287	62.017	ug/l #	1
95) Naphthalene	15.611	128	18706	1.198	ug/l #	92

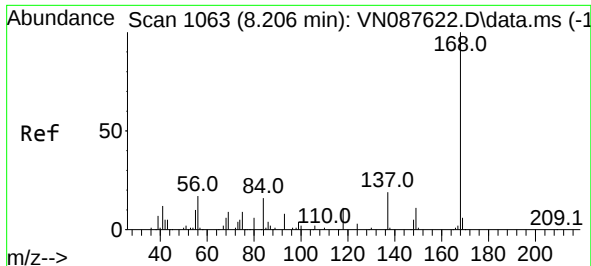
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

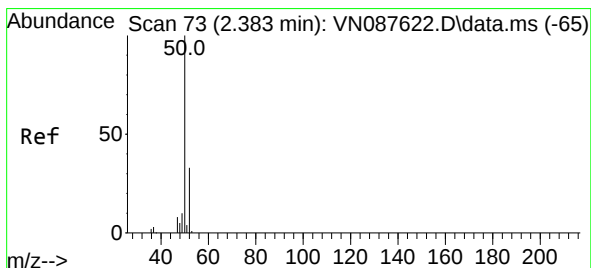
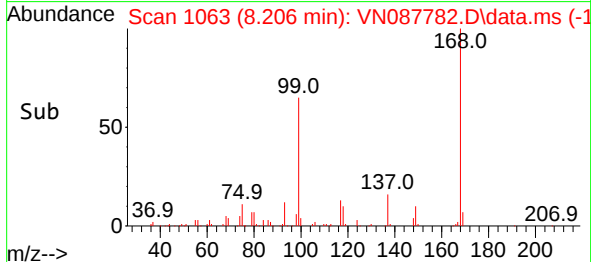
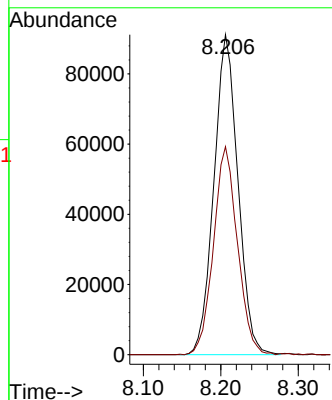
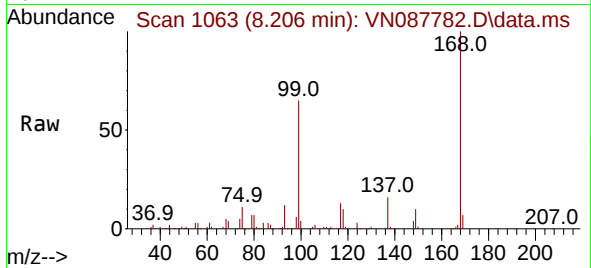




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

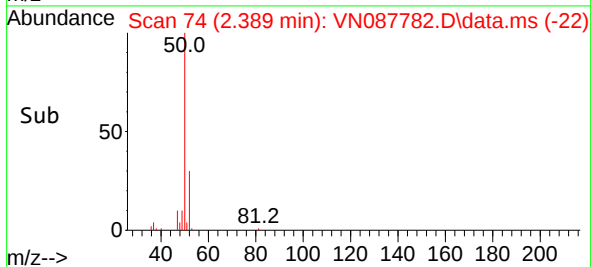
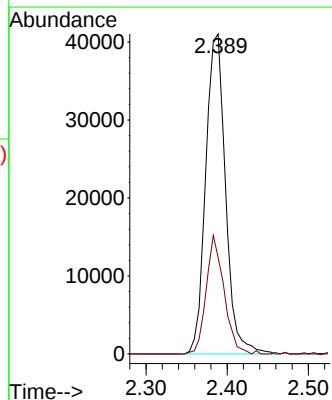
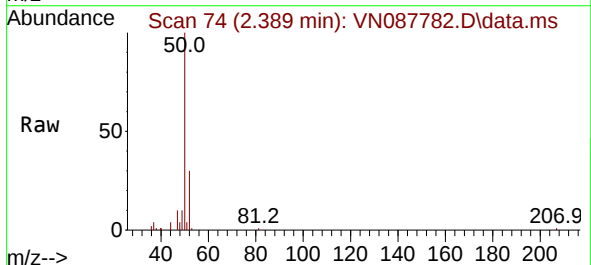
Instrument :
MSVOA_N
ClientSampleId :
MW4

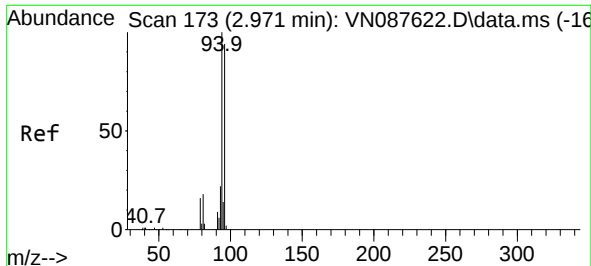
Tgt Ion:168 Resp: 196528
Ion Ratio Lower Upper
168 100
99 64.8 57.2 85.8



#3
Chloromethane
Concen: 24.277 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 50 Resp: 69637
Ion Ratio Lower Upper
50 100
52 30.2 26.2 39.4

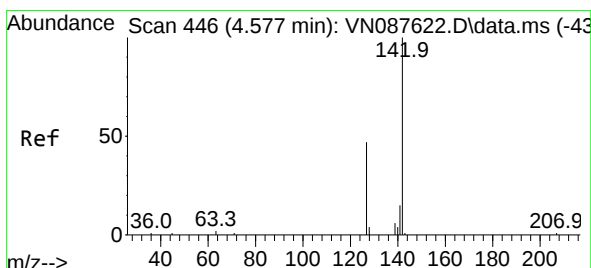
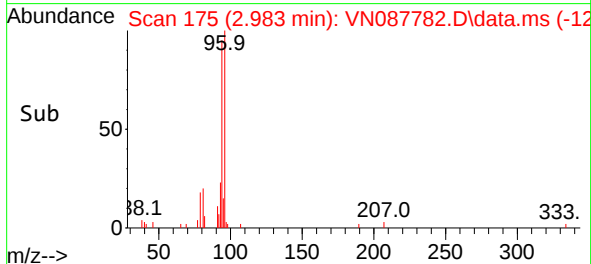
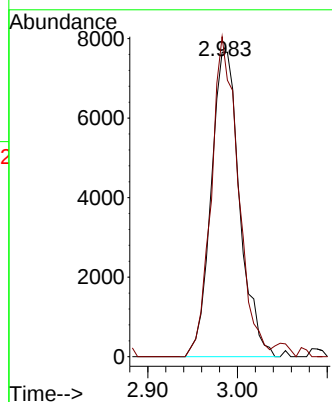
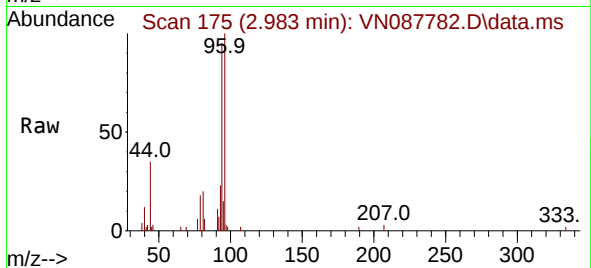




#5
Bromomethane
Concen: 9.905 ug/l
RT: 2.983 min Scan# 173
Delta R.T. 0.012 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

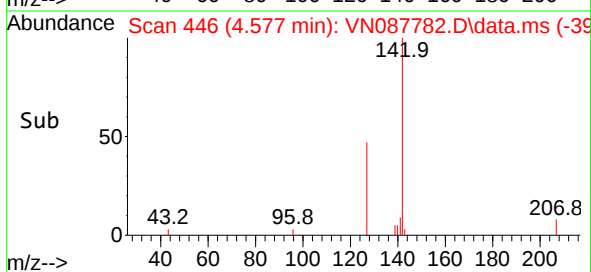
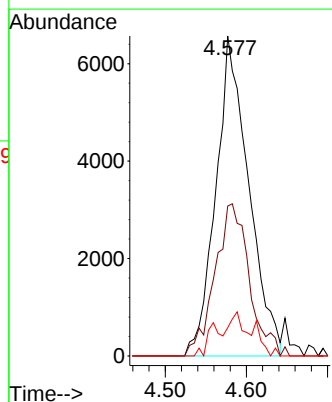
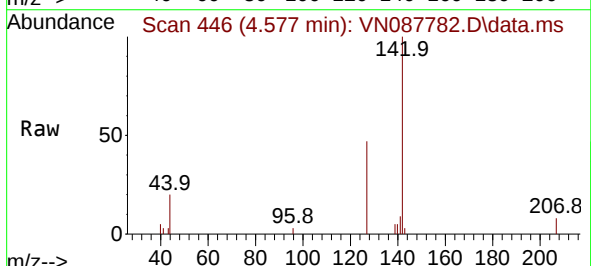
Instrument :
MSVOA_N
ClientSampleId :
MW4

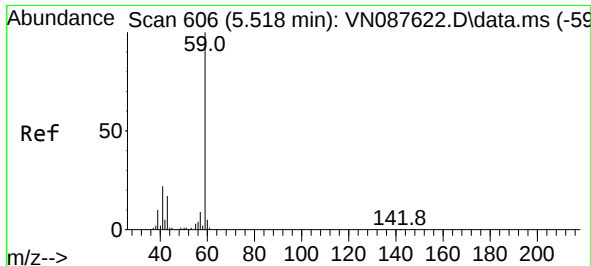
Tgt Ion: 94 Resp: 16998
Ion Ratio Lower Upper
94 100
96 105.1 75.4 113.2



#10
Methyl Iodide
Concen: 14.554 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion:142 Resp: 18472
Ion Ratio Lower Upper
142 100
127 46.8 38.0 57.0
141 8.8 12.0 18.0#

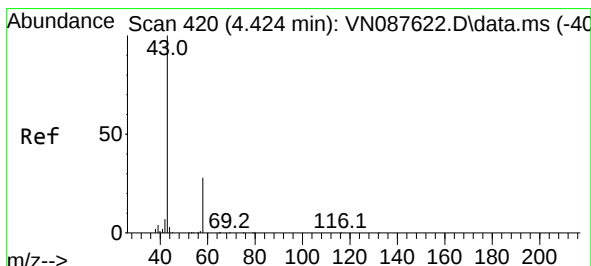
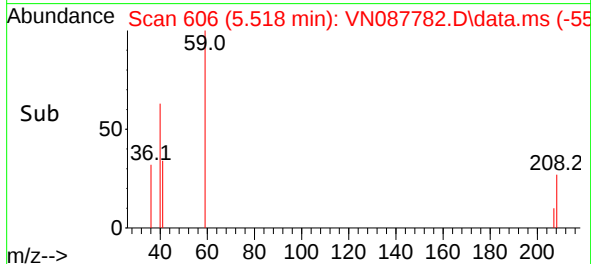
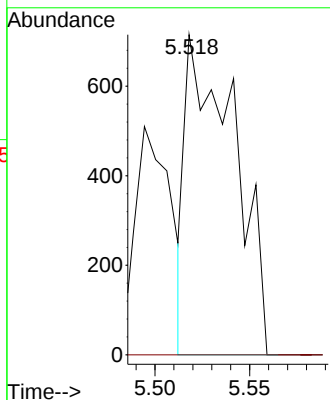
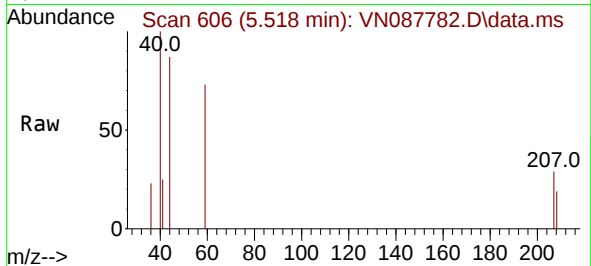




#11
Tert butyl alcohol
Concen: 1.823 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

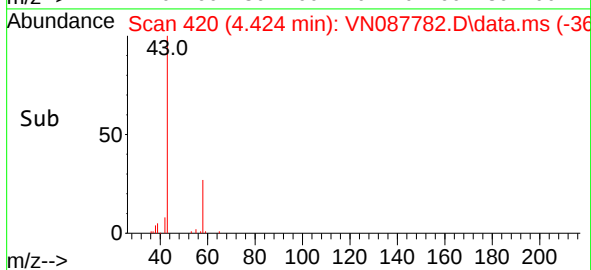
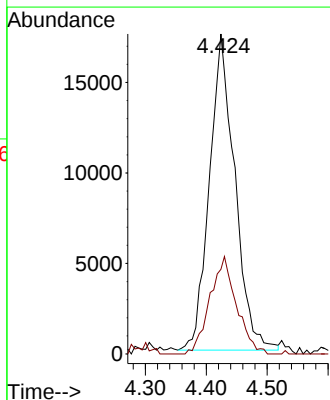
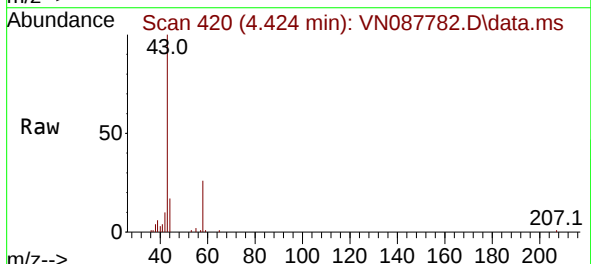
Instrument :
MSVOA_N
ClientSampleId :
MW4

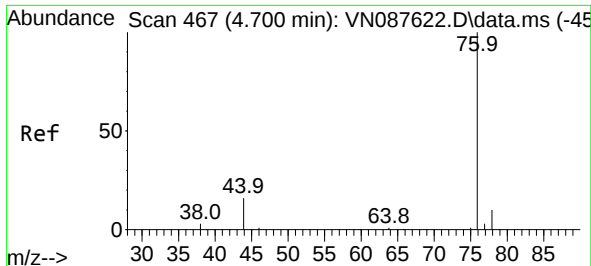
Tgt Ion: 59 Resp: 1274
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 23.092 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 43 Resp: 50618
Ion Ratio Lower Upper
43 100
58 26.8 22.6 33.8

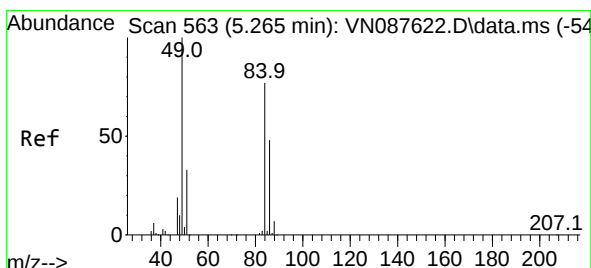
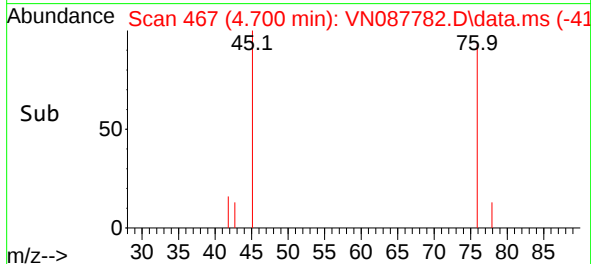
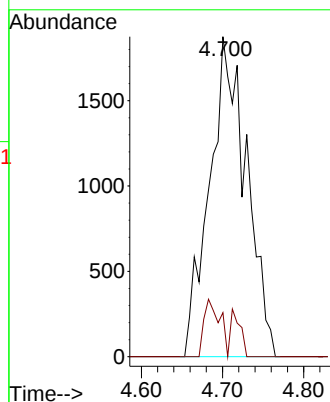
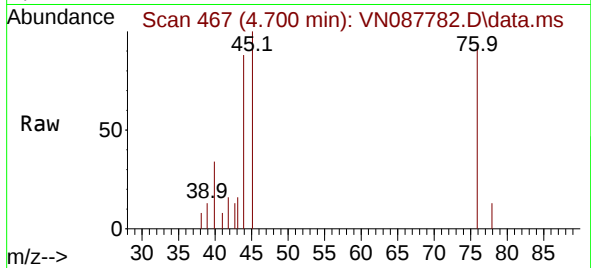




#17
Carbon Disulfide
Concen: 0.760 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

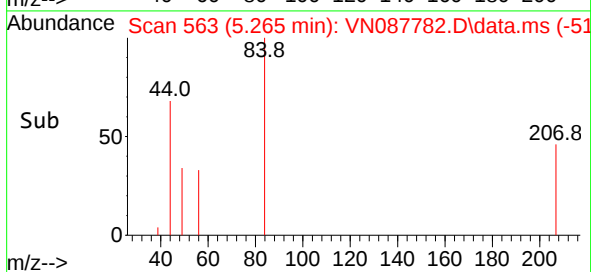
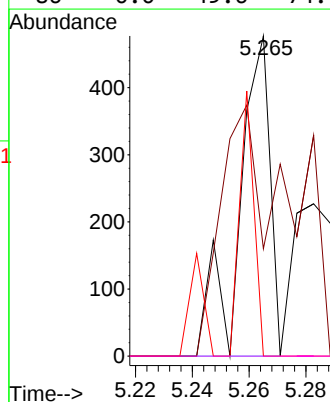
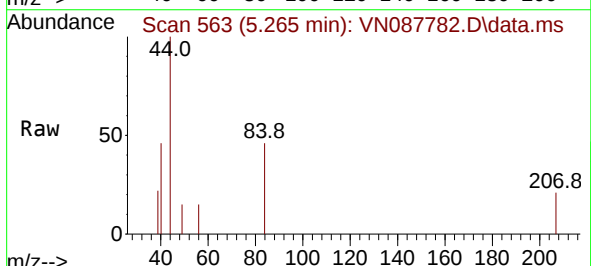
Instrument :
MSVOA_N
ClientSampleId :
MW4

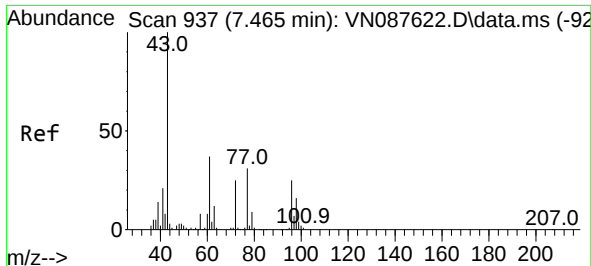
Tgt Ion: 76 Resp: 5929
Ion Ratio Lower Upper
76 100
78 13.8 7.6 11.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 84 Resp: 358
Ion Ratio Lower Upper
84 100
49 33.5 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

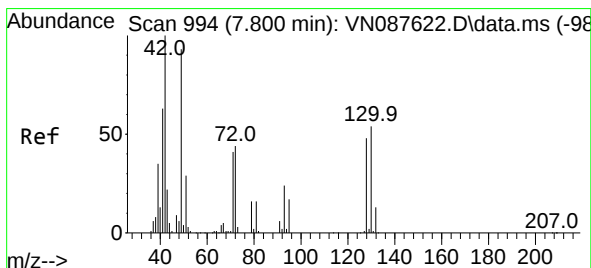
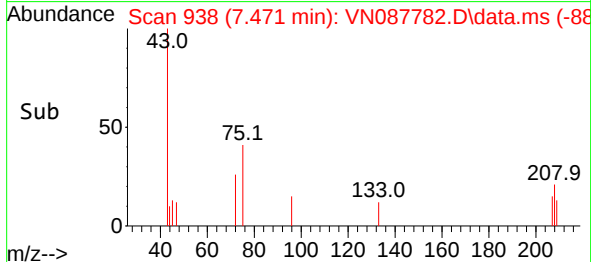
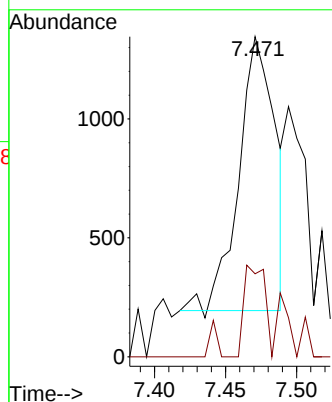
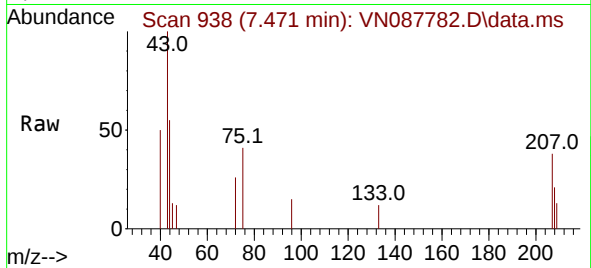




#25
2-Butanone
Concen: 0.709 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

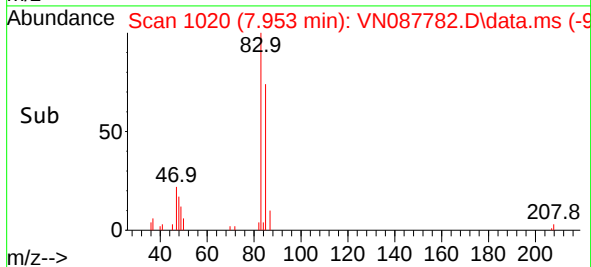
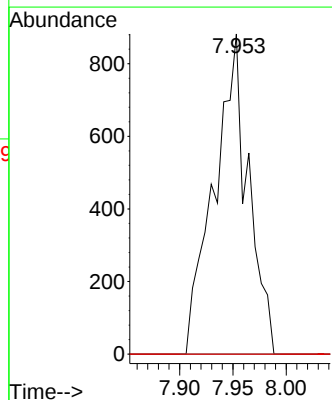
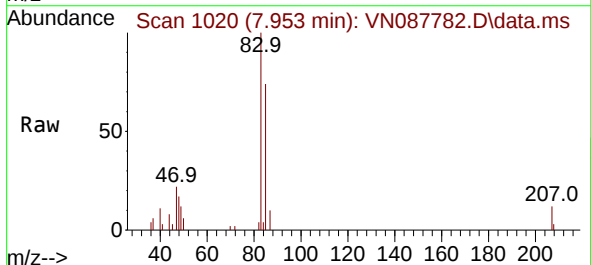
Instrument :
MSVOA_N
ClientSampleId :
MW4

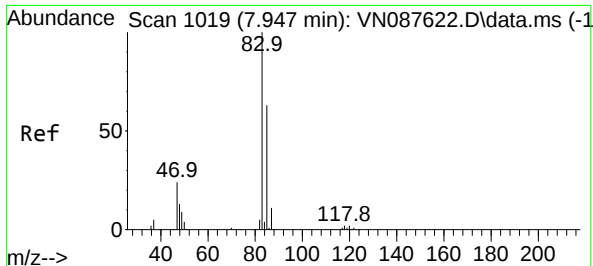
Tgt Ion: 43 Resp: 2045
Ion Ratio Lower Upper
43 100
72 30.3 19.9 29.9#



#28
Bromochloromethane
Concen: 0.668 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.153 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 49 Resp: 1963
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 0.0 53.1 79.7#





#30

Chloroform

Concen: 2.971 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

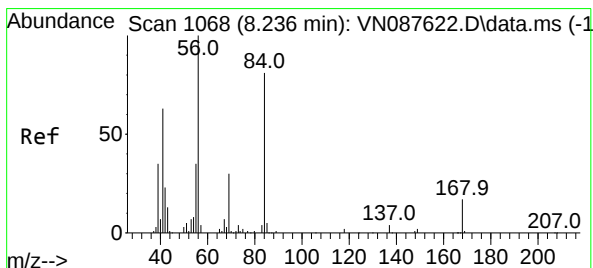
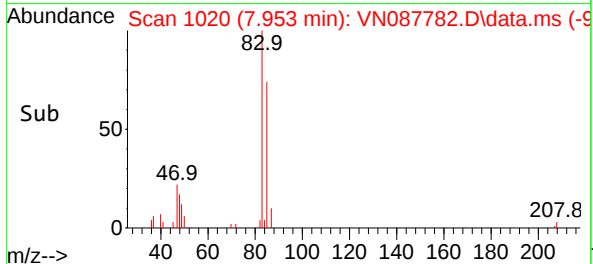
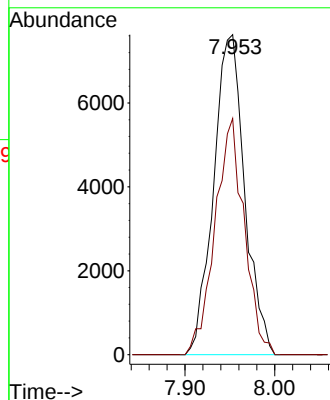
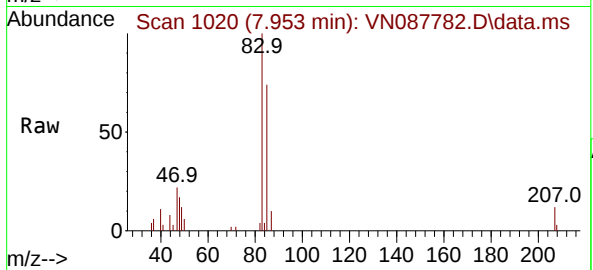
MW4

Tgt Ion: 83 Resp: 18426

Ion Ratio Lower Upper

83 100

85 73.8 50.7 76.1



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.030 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

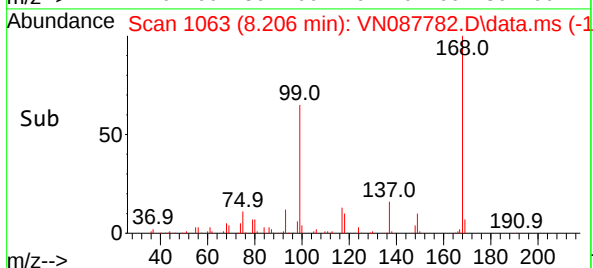
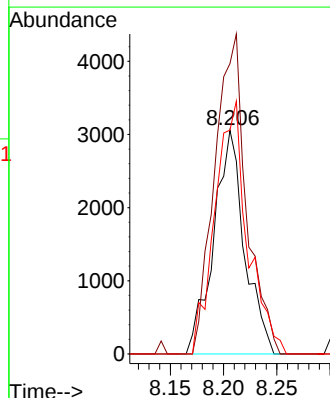
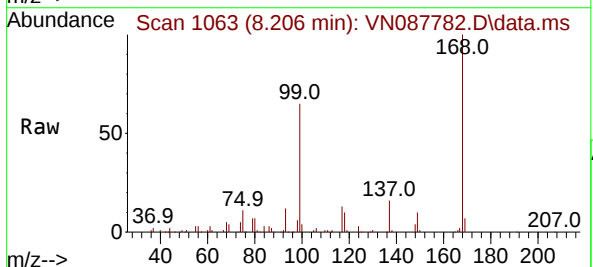
Tgt Ion: 56 Resp: 6154

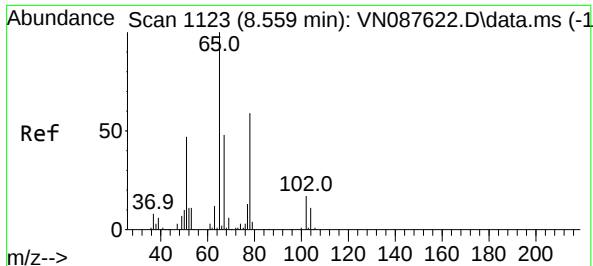
Ion Ratio Lower Upper

56 100

69 129.9 23.7 35.5#

84 100.1 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 51.620 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

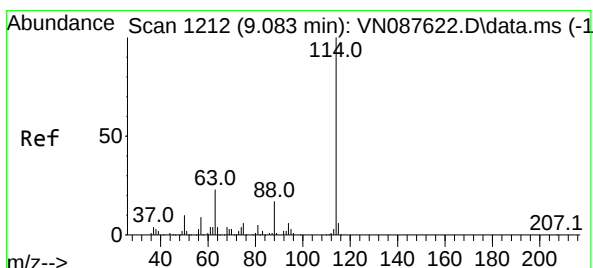
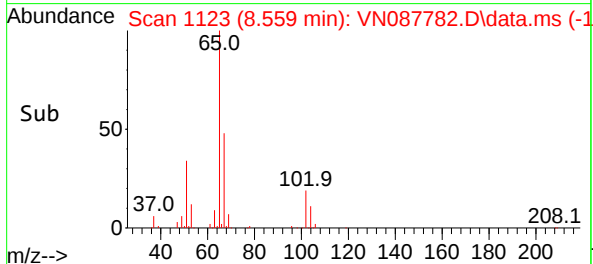
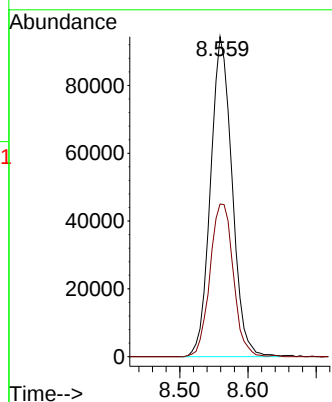
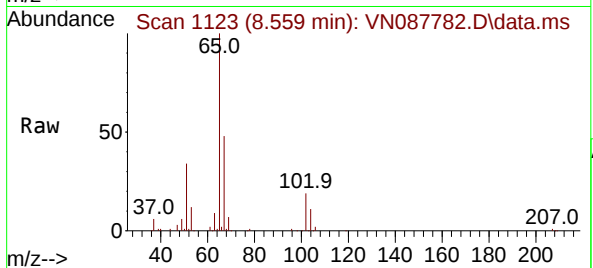
MW4

Tgt Ion: 65 Resp: 207855

Ion Ratio Lower Upper

65 100

67 51.5 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

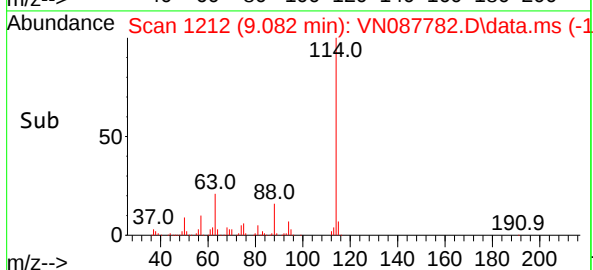
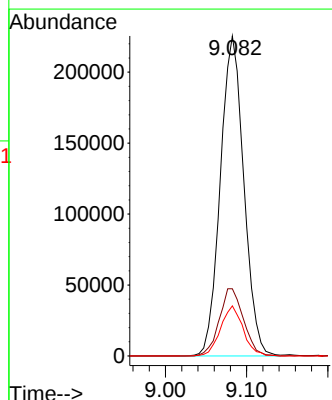
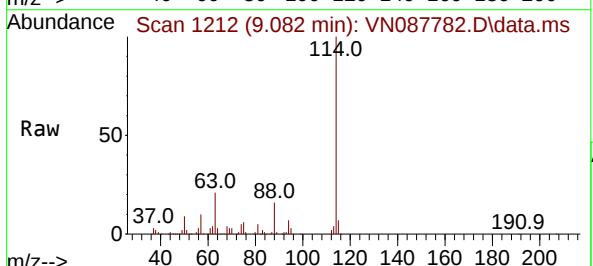
Tgt Ion: 114 Resp: 453885

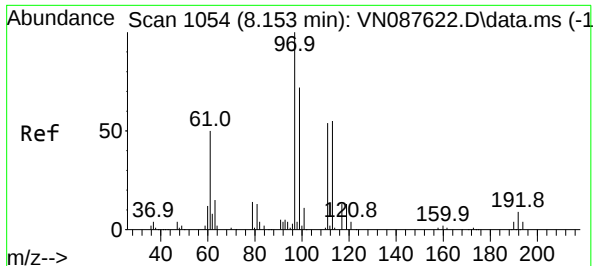
Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.2

88 15.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.264 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW4

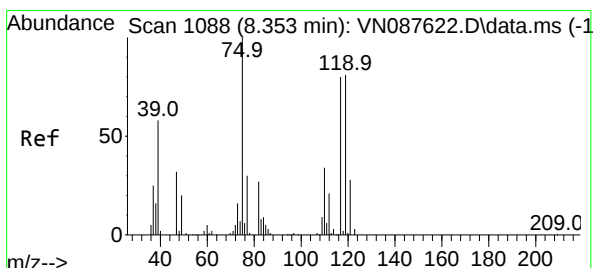
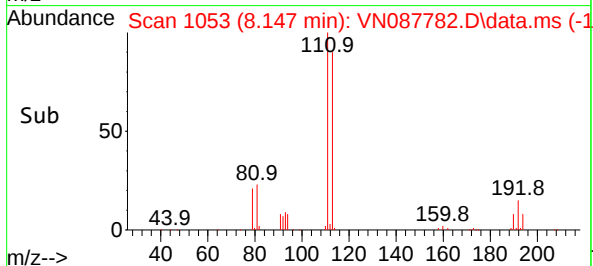
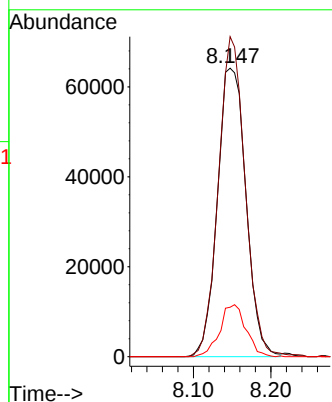
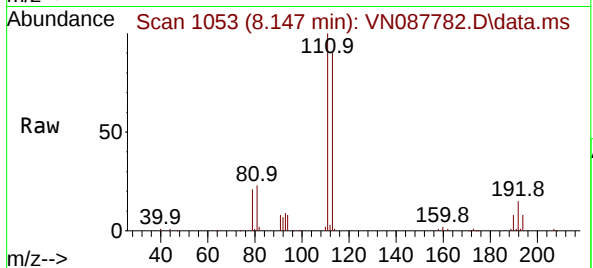
Tgt Ion:113 Resp: 164718

Ion Ratio Lower Upper

113 100

111 103.7 82.8 124.2

192 16.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.935 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

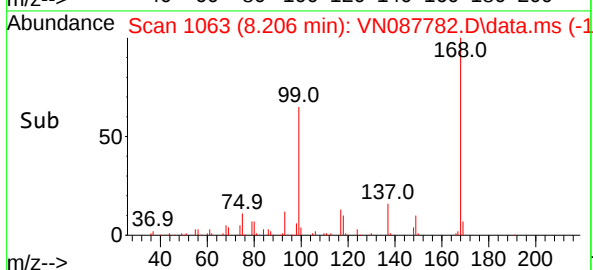
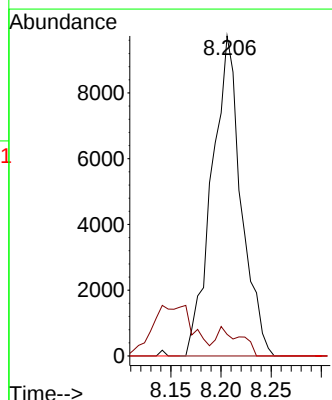
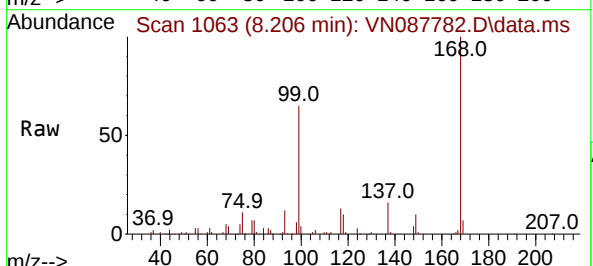
Tgt Ion: 75 Resp: 19784

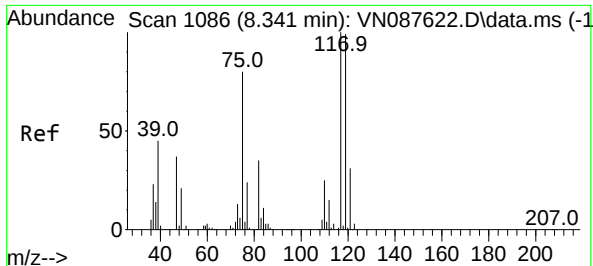
Ion Ratio Lower Upper

75 100

110 7.4 15.9 47.6#

77 0.0 24.4 36.6#

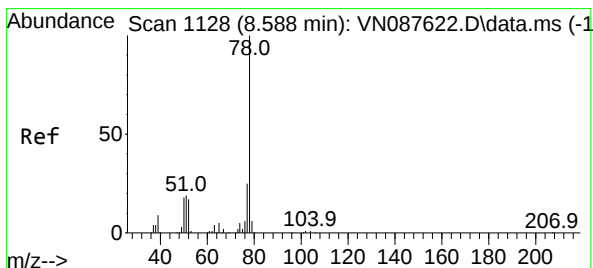
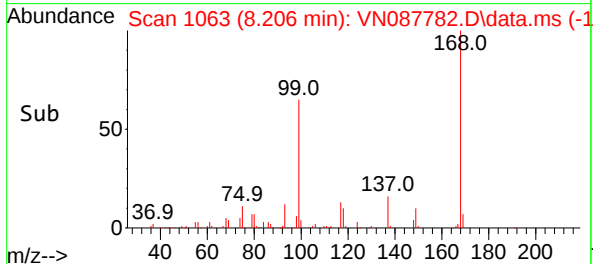
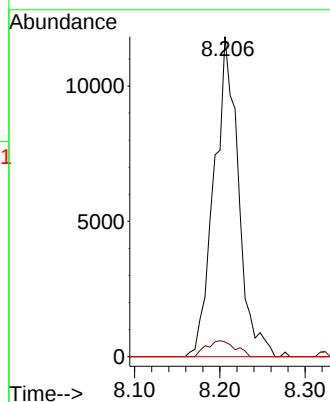
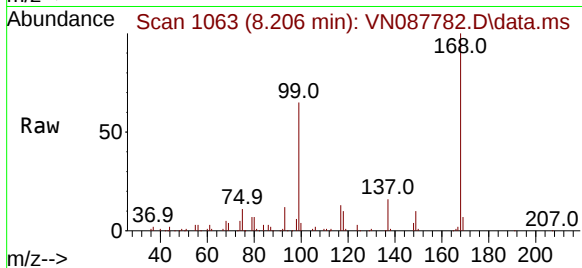




#38
Carbon Tetrachloride
Concen: 4.723 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

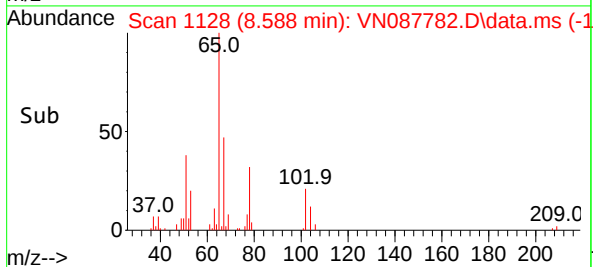
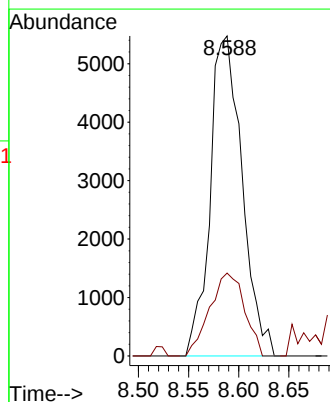
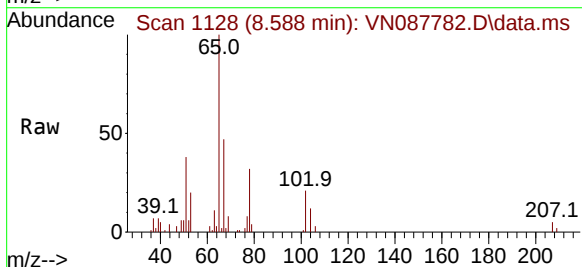
Instrument :
MSVOA_N
ClientSampleId :
MW4

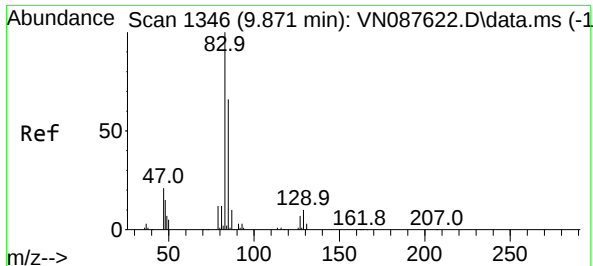
Tgt Ion:117 Resp: 23442
Ion Ratio Lower Upper
117 100
119 4.6 79.0 118.6#
121 0.0 25.0 37.6#



#40
Benzene
Concen: 0.787 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 78 Resp: 12142
Ion Ratio Lower Upper
78 100
77 25.9 19.7 29.5





#47

Bromodichloromethane

Concen: 0.365 ug/l

RT: 9.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW4

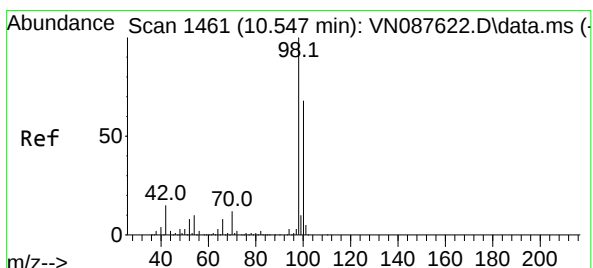
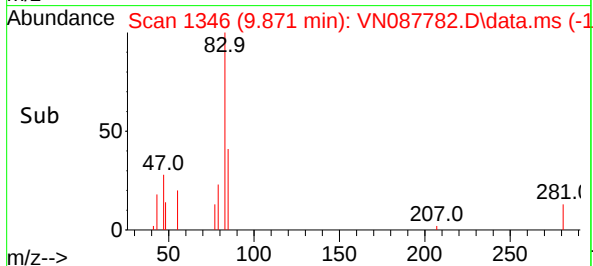
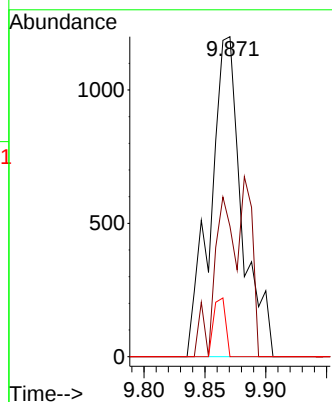
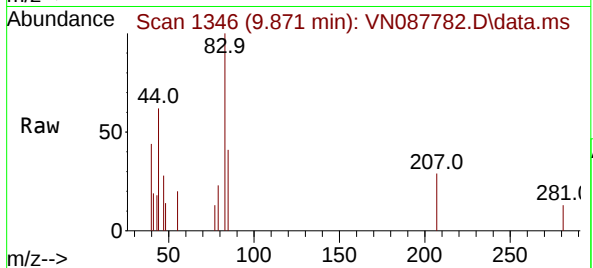
Tgt Ion: 83 Resp: 2163

Ion Ratio Lower Upper

83 100

85 40.8 52.5 78.7#

127 0.0 5.8 8.6#



#50

Toluene-d8

Concen: 46.775 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087782.D

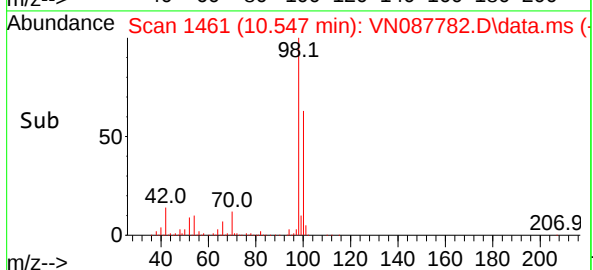
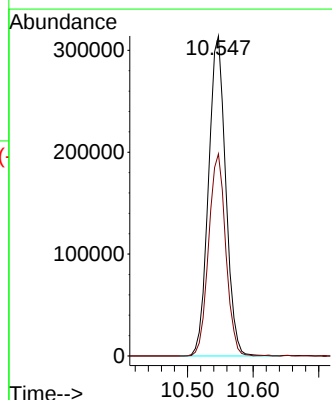
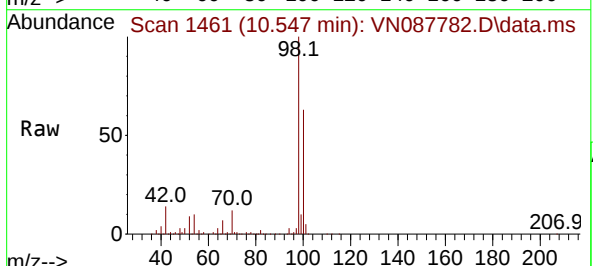
Acq: 10 Sep 2025 15:47

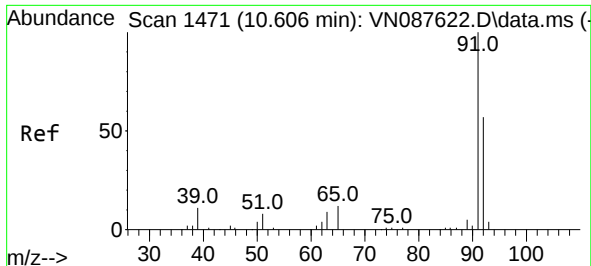
Tgt Ion: 98 Resp: 573709

Ion Ratio Lower Upper

98 100

100 62.6 52.8 79.2

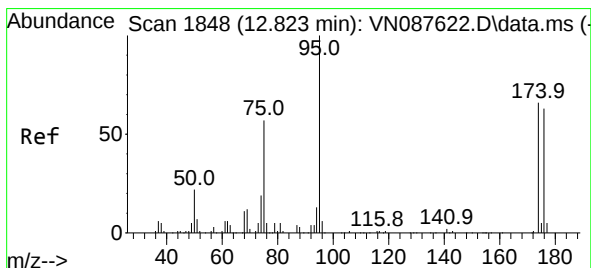
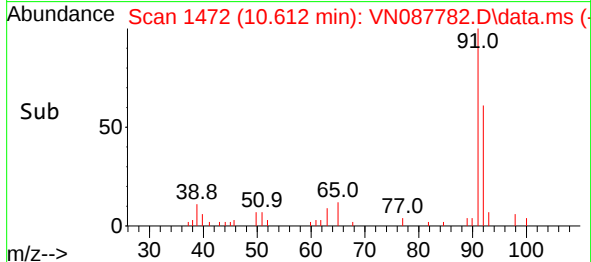
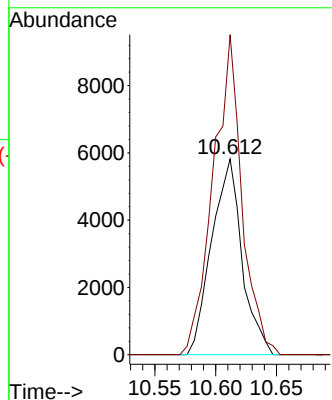
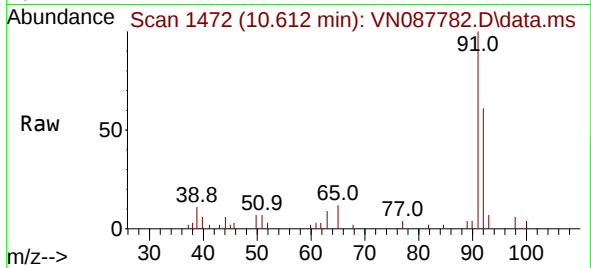




#52
Toluene
Concen: 1.056 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

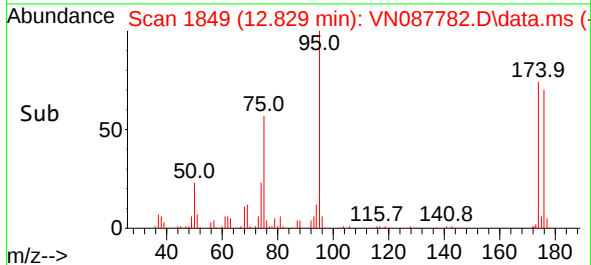
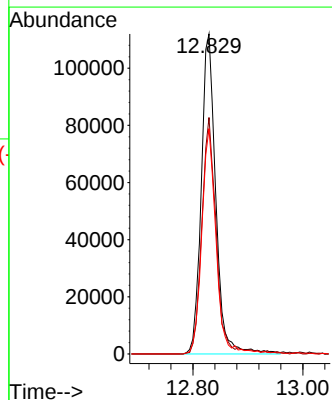
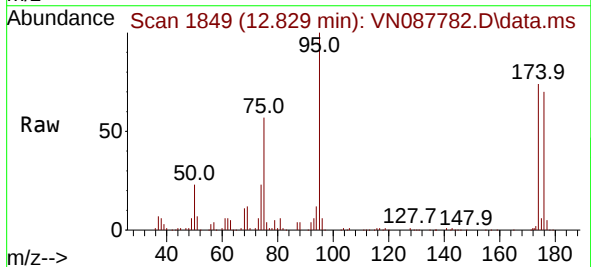
Instrument :
MSVOA_N
ClientSampleId :
MW4

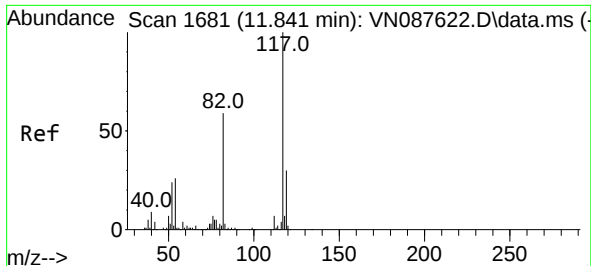
Tgt Ion: 92 Resp: 10092
Ion Ratio Lower Upper
92 100
91 155.0 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 47.141 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 95 Resp: 205625
Ion Ratio Lower Upper
95 100
174 73.3 0.0 138.4
176 69.8 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW4

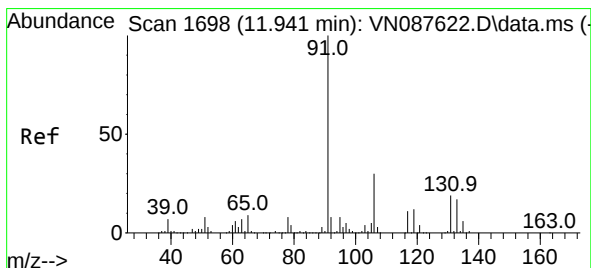
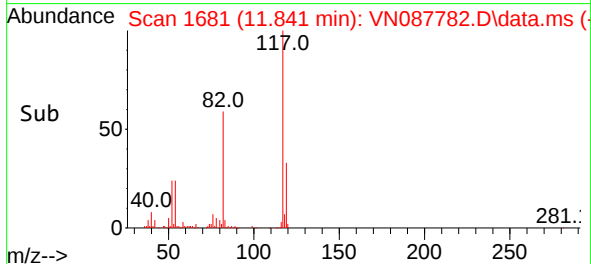
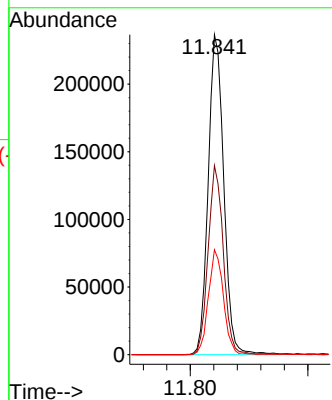
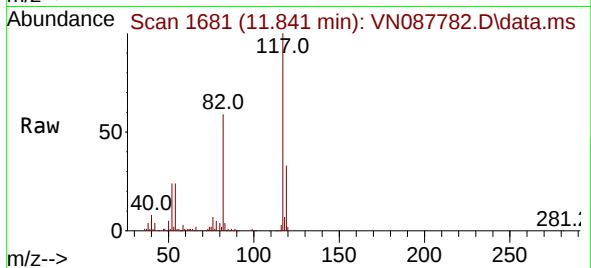
Tgt Ion:117 Resp: 434796

Ion Ratio Lower Upper

117 100

82 59.1 47.4 71.2

119 32.8 24.3 36.5



#67

Ethyl Benzene

Concen: 0.818 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087782.D

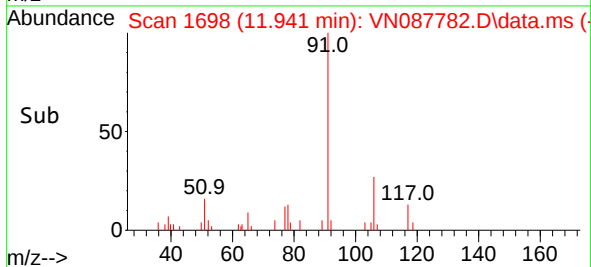
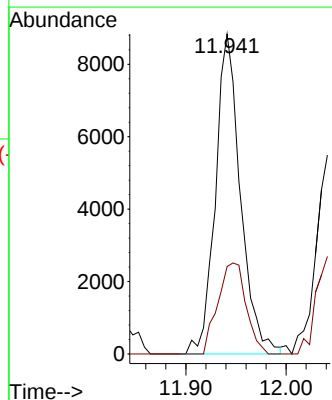
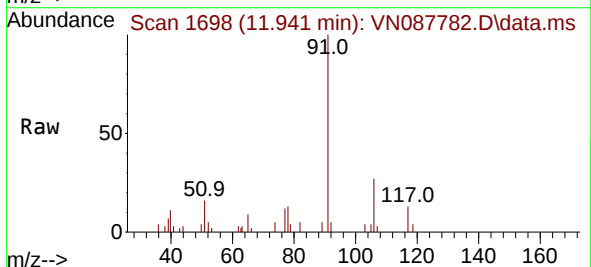
Acq: 10 Sep 2025 15:47

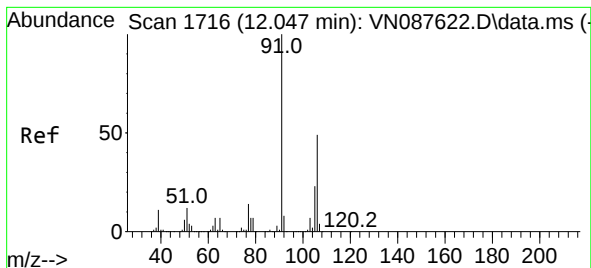
Tgt Ion: 91 Resp: 15321

Ion Ratio Lower Upper

91 100

106 27.3 24.1 36.1

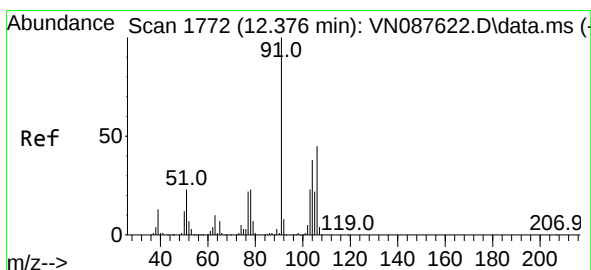
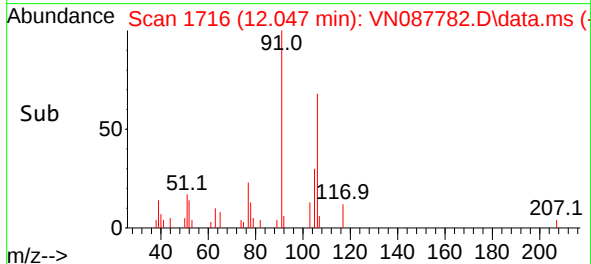
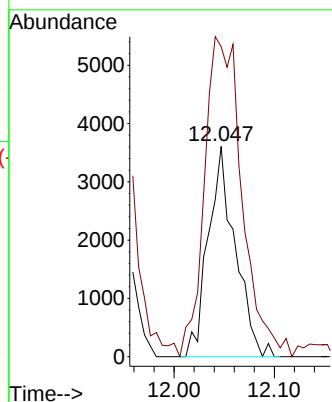
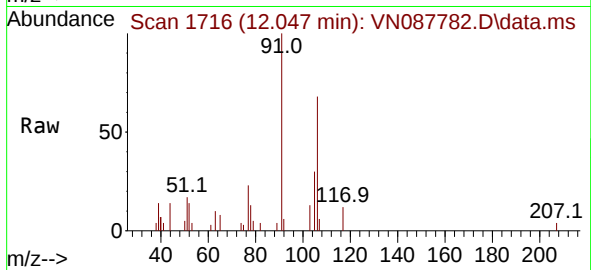




#68
m/p-Xylenes
Concen: 0.985 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

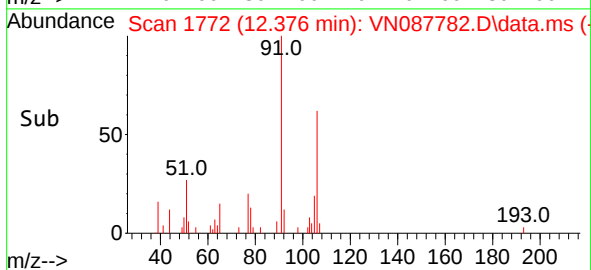
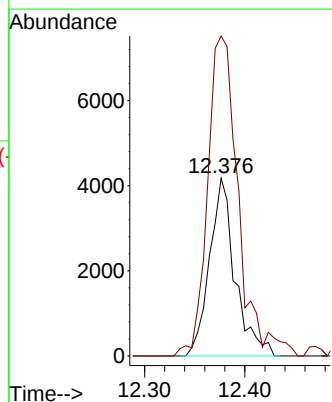
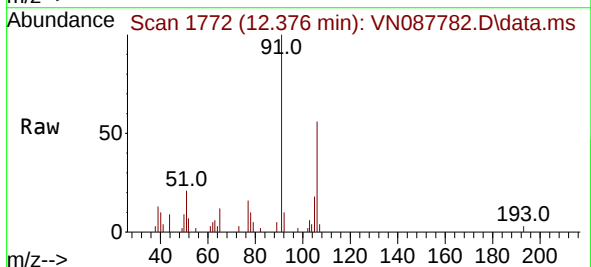
Instrument :
MSVOA_N
ClientSampleId :
MW4

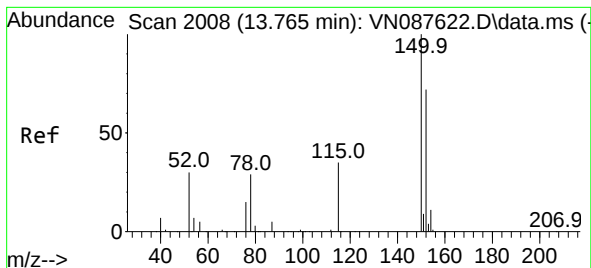
Tgt Ion:106 Resp: 6766
Ion Ratio Lower Upper
106 100
91 210.8 169.3 253.9



#69
o-Xylene
Concen: 1.094 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion:106 Resp: 7363
Ion Ratio Lower Upper
106 100
91 216.7 111.4 334.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2008

Delta R.T. 0.006 min

Lab File: VN087782.D

Acq: 10 Sep 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW4

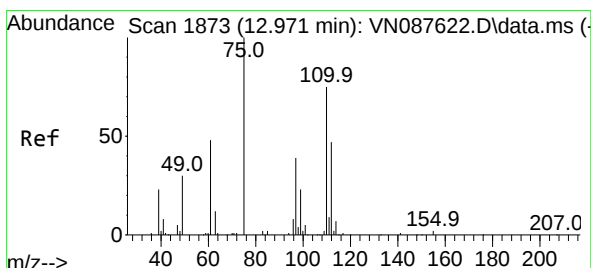
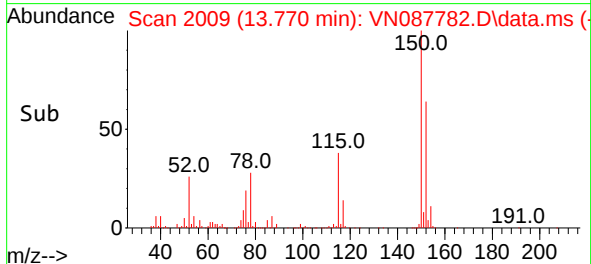
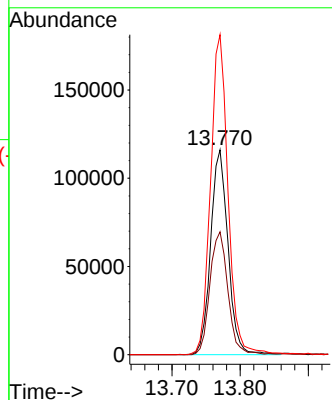
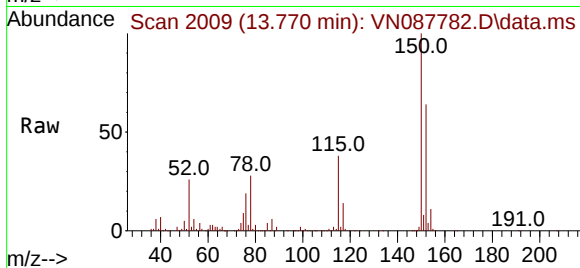
Tgt Ion:152 Resp: 206220

Ion Ratio Lower Upper

152 100

115 61.9 32.3 96.8

150 157.2 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.426 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087782.D

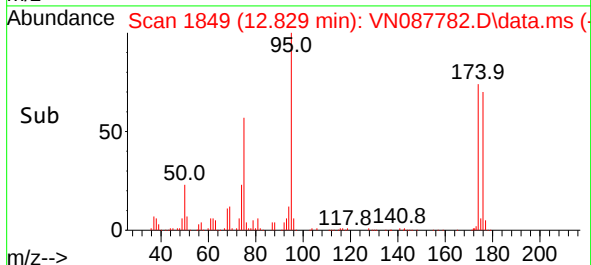
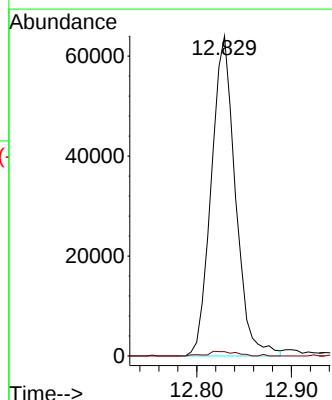
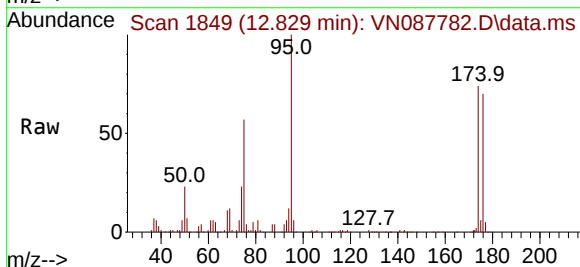
Acq: 10 Sep 2025 15:47

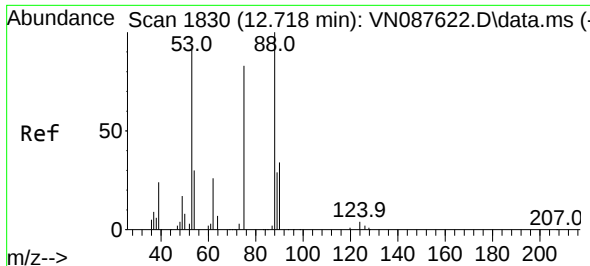
Tgt Ion: 75 Resp: 113287

Ion Ratio Lower Upper

75 100

77 1.7 89.1 267.4#

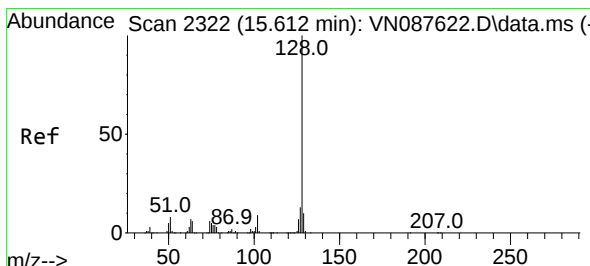
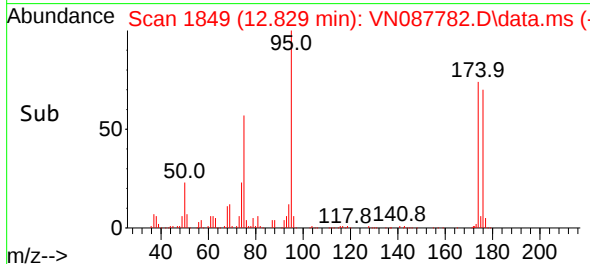
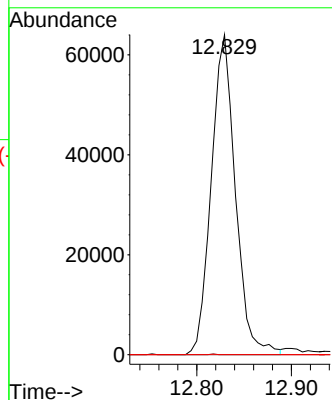
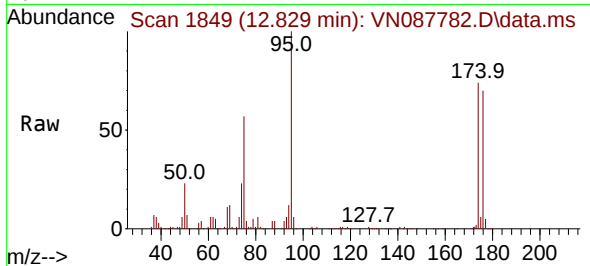




#81
trans-1,4-Dichloro-2-butene
Concen: 62.017 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW4

Tgt Ion: 75 Resp: 113287
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#95
Naphthalene
Concen: 1.198 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN087782.D
Acq: 10 Sep 2025 15:47

Tgt Ion: 128 Resp: 18706
Ion Ratio Lower Upper
128 100
127 17.3 10.6 15.8#
129 12.7 8.6 12.8

