

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091025\
 Data File : VN087780.D
 Acq On : 10 Sep 2025 15:06
 Operator : JC\MD
 Sample : Q3045-06DL 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPLDL

Quant Time: Sep 11 02:04:49 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)

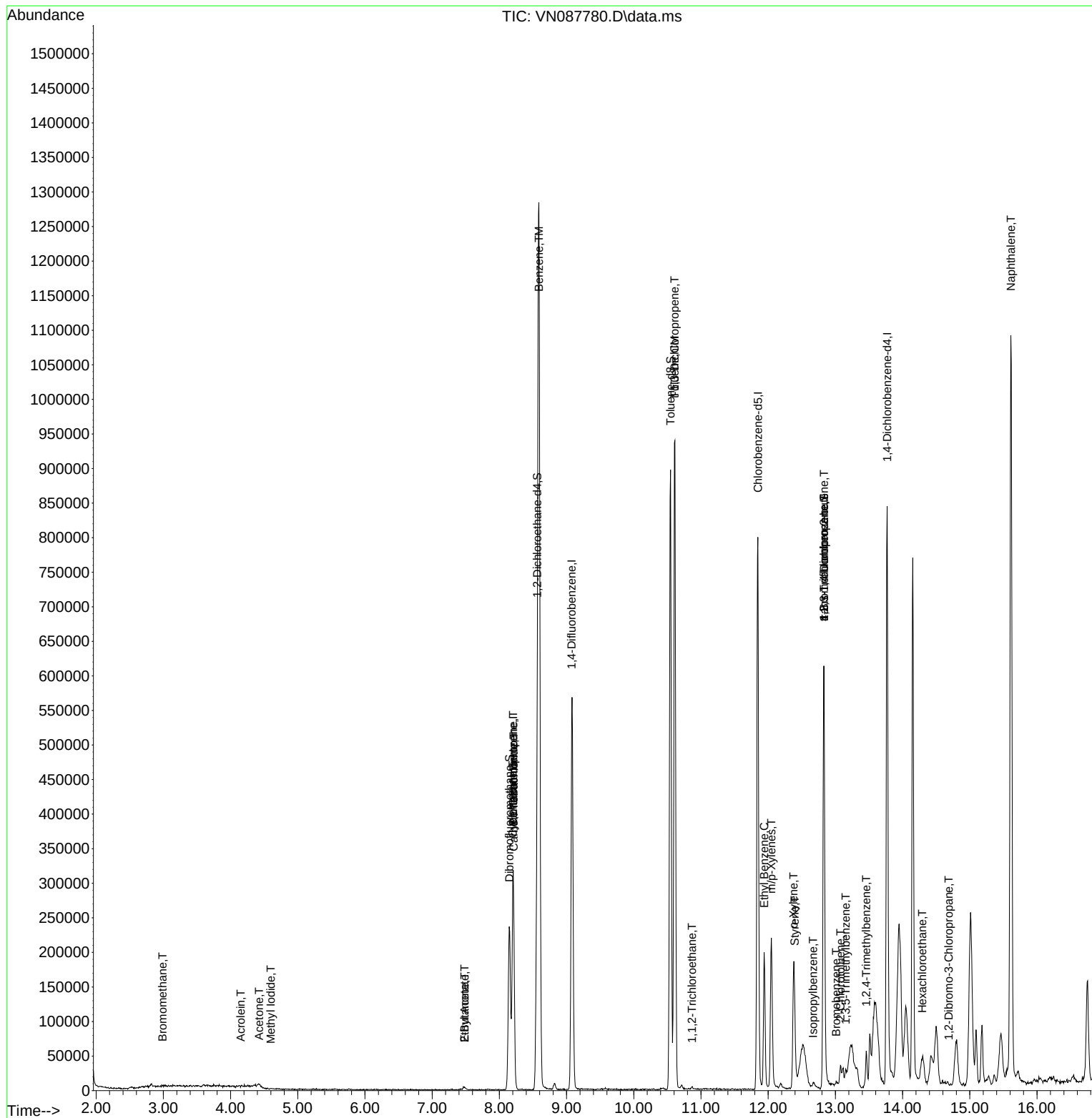
Internal Standards						
1) Pentafluorobenzene	8.206	168	213868	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.076	114	479762	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	447056	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	227062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	210638	48.070	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.140%		
35) Dibromofluoromethane	8.147	113	167168	48.260	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.520%		
50) Toluene-d8	10.547	98	603181	46.525	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.060%		
62) 4-Bromofluorobenzene	12.829	95	219349	47.575	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.140%		
Target Compounds						Qvalue
5) Bromomethane	2.989	94	569	0.305	ug/l #	3
10) Methyl Iodide	4.600	142	444	6.981	ug/l #	38
13) Acrolein	4.153	56	302	0.323	ug/l #	14
16) Acetone	4.424	43	8717	3.654	ug/l	98
20) Methylene Chloride	5.265	84	121	Below Cal	#	37
25) 2-Butanone	7.482	43	7238	2.306	ug/l	95
31) Cyclohexane	8.200	56	6814	1.236	ug/l #	31
36) 1,1-Dichloropropene	8.206	75	19632	3.694	ug/l #	53
37) Ethyl Acetate	7.482	43	7238	0.997	ug/l #	72
38) Carbon Tetrachloride	8.212	117	23692	4.516	ug/l #	14
40) Benzene	8.588	78	1258658	77.224	ug/l	98
52) Toluene	10.606	92	411470	40.722	ug/l	100
53) t-1,3-Dichloropropene	10.606	75	5562	0.858	ug/l #	1
55) 1,1,2-Trichloroethane	10.865	97	2900	0.742	ug/l #	14
67) Ethyl Benzene	11.941	91	139192	7.228	ug/l	96
68) m/p-Xylenes	12.047	106	68993	9.769	ug/l	100
69) o-Xylene	12.376	106	36116	5.218	ug/l	96
70) Styrene	12.394	104	60731	5.238	ug/l	97
73) Isopropylbenzene	12.670	105	3953	0.215	ug/l	99
76) 1,2,3-Trichloropropane	12.829	75	125668	23.601	ug/l #	1
77) Bromobenzene	13.011	156	890	0.206	ug/l #	4
79) 2-Chlorotoluene	13.076	91	2816	0.207	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.153	105	9513	0.611	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.829	75	125668	62.481	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	28067	1.801	ug/l	90
90) Hexachloroethane	14.294	117	1527	0.504	ug/l #	22
92) 1,2-Dibromo-3-Chloropr...	14.688	75	395	0.263	ug/l #	8
95) Naphthalene	15.611	128	1041754	60.599	ug/l	99

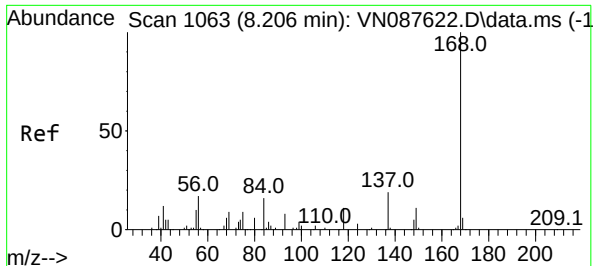
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091025\
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Quant Time: Sep 11 02:04:49 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

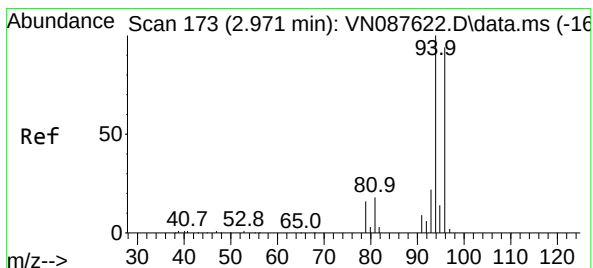
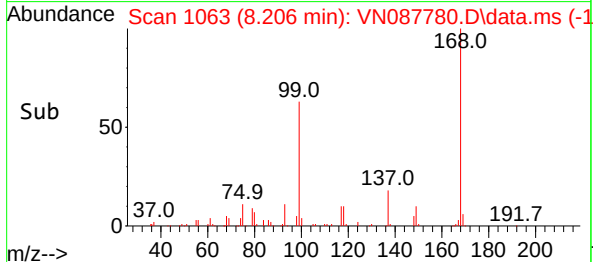
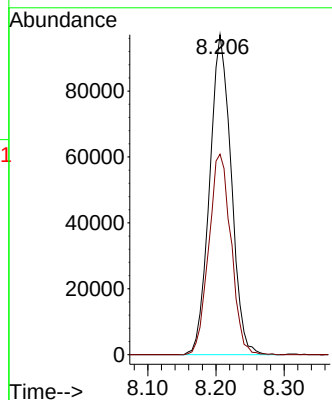
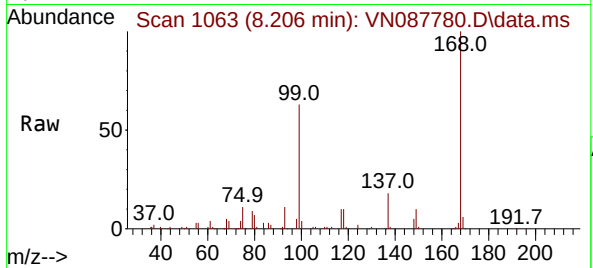




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

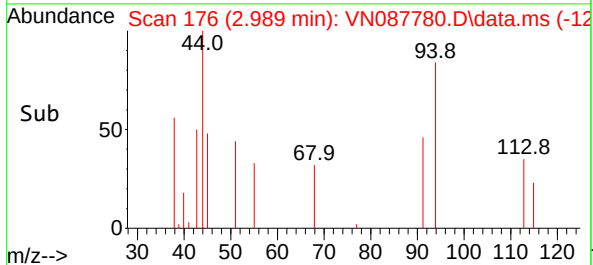
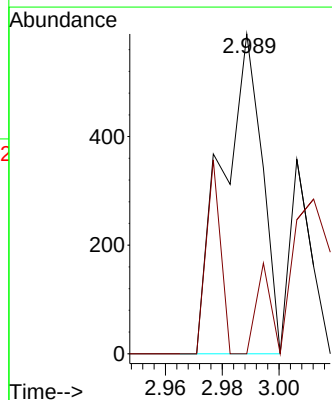
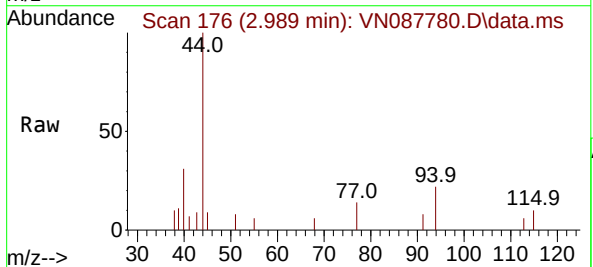
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

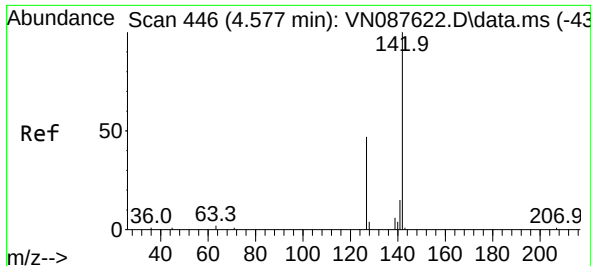
Tgt Ion:168 Resp: 213868
Ion Ratio Lower Upper
168 100
99 62.6 57.2 85.8



#5
Bromomethane
Concen: 0.305 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.017 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 94 Resp: 569
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#

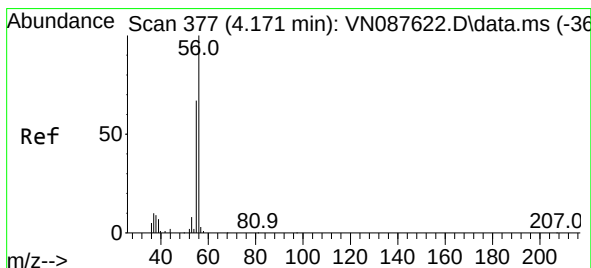
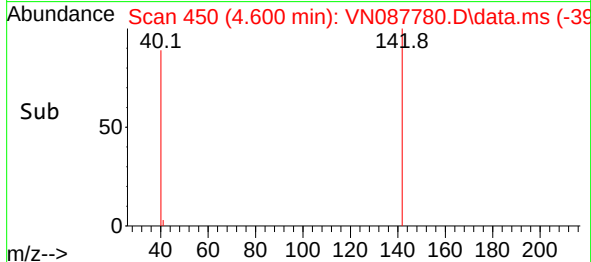
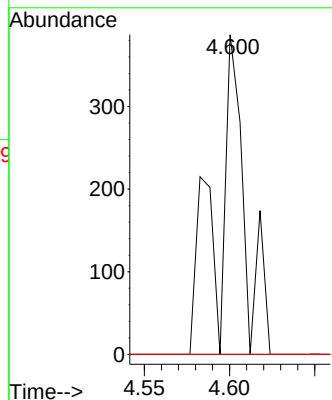
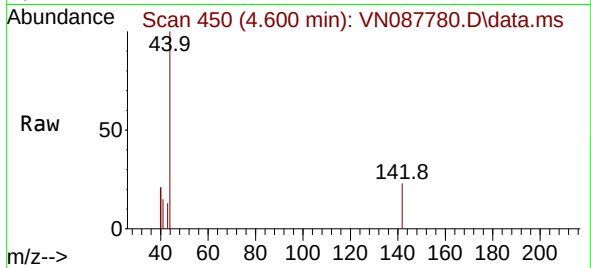




#10
Methyl Iodide
Concen: 6.981 ug/l
RT: 4.600 min Scan# 411
Delta R.T. 0.023 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

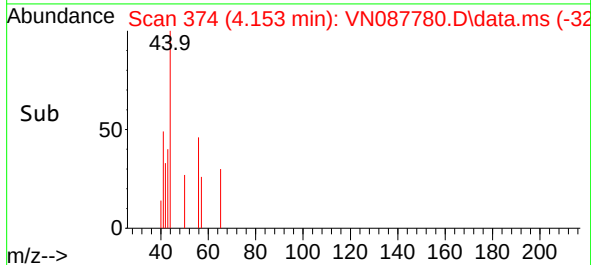
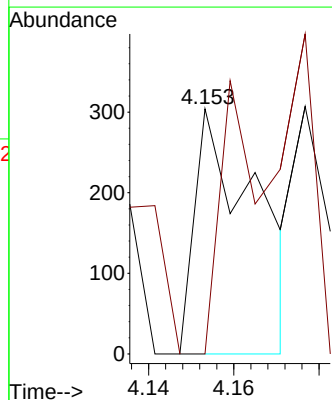
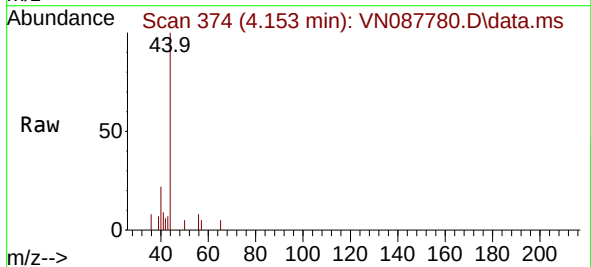
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

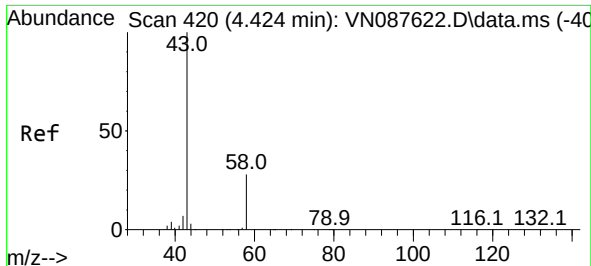
Tgt Ion:142 Resp: 444
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.323 ug/l
RT: 4.153 min Scan# 374
Delta R.T. -0.018 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 56 Resp: 302
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#

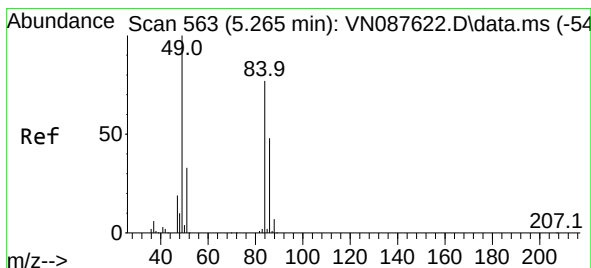
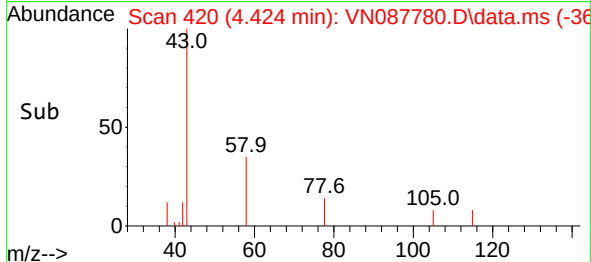
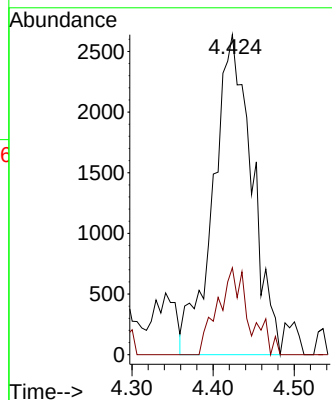
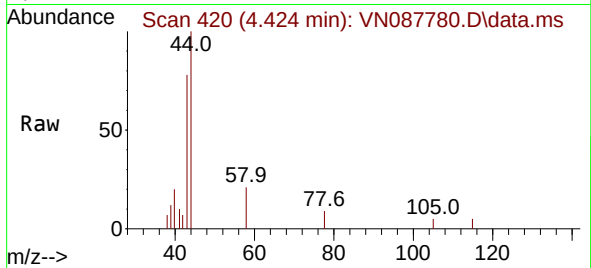




#16
Acetone
Concen: 3.654 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

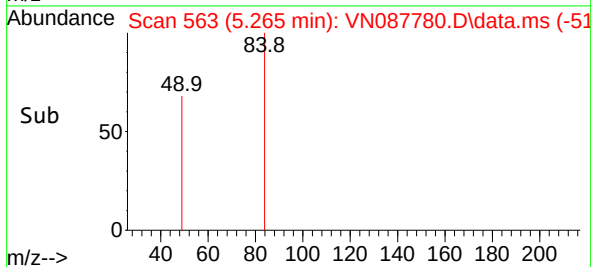
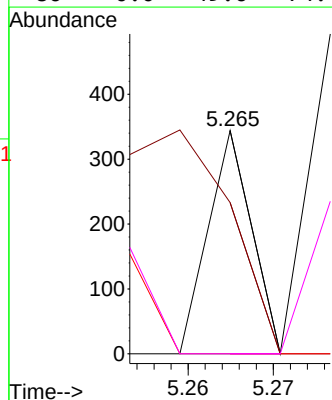
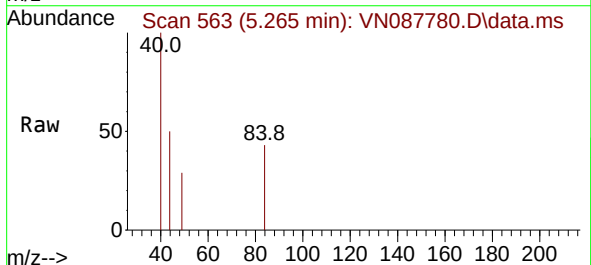
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

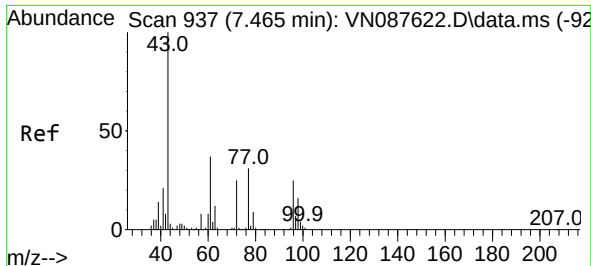
Tgt Ion: 43 Resp: 8717
Ion Ratio Lower Upper
43 100
58 27.2 22.6 33.8



#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 84 Resp: 121
Ion Ratio Lower Upper
84 100
49 67.7 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

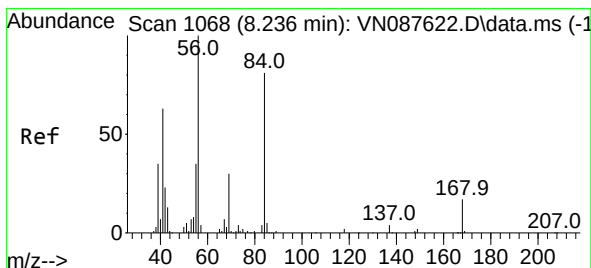
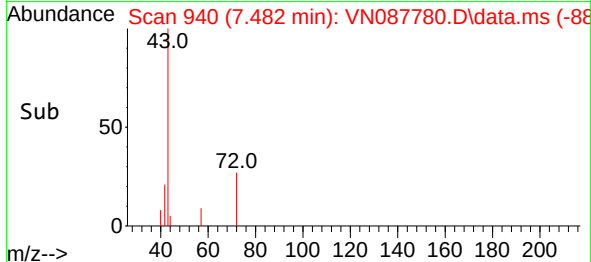
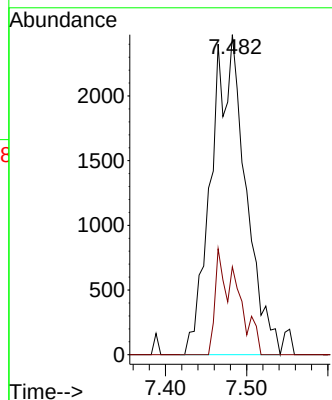
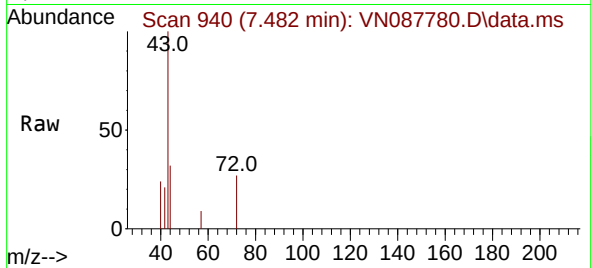




#25
2-Butanone
Concen: 2.306 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.017 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

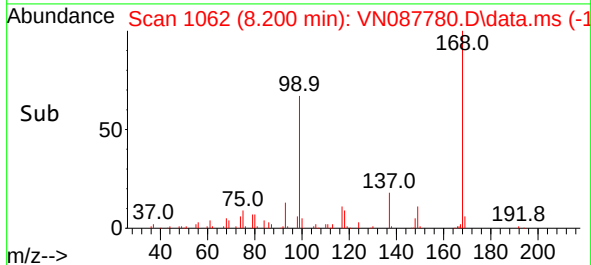
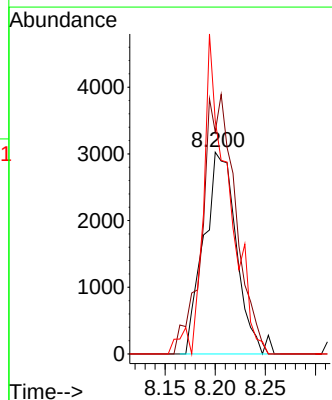
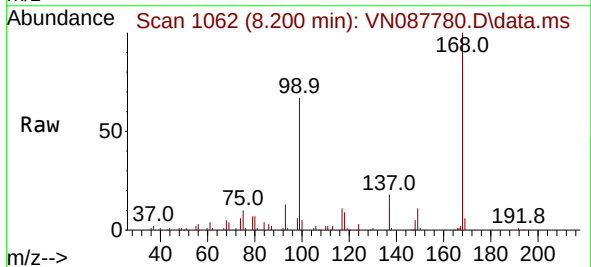
Instrument :
MSVOA_N
ClientSampleId :
DNAPLDL

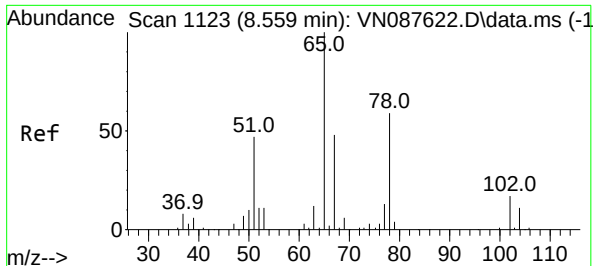
Tgt Ion: 43 Resp: 7238
Ion Ratio Lower Upper
43 100
72 27.4 19.9 29.9



#31
Cyclohexane
Concen: 1.236 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.036 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 56 Resp: 6814
Ion Ratio Lower Upper
56 100
69 110.1 23.7 35.5#
84 115.6 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 48.070 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

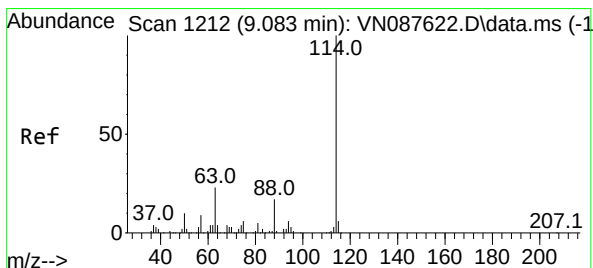
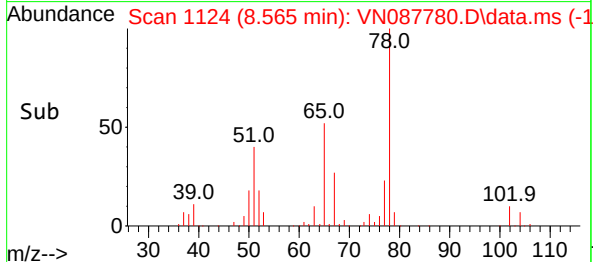
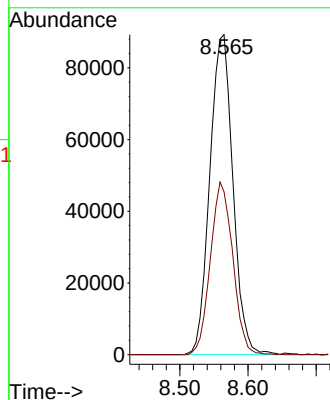
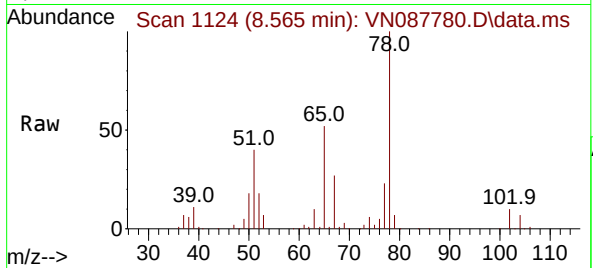
DNAPL DL

Tgt Ion: 65 Resp: 210638

Ion Ratio Lower Upper

65 100

67 52.4 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.076 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

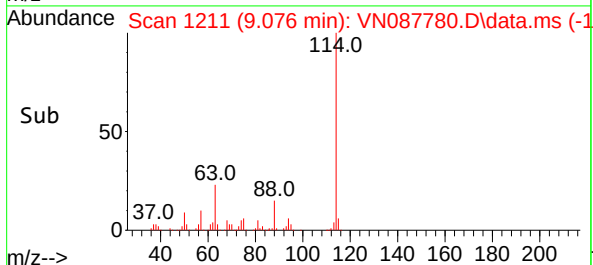
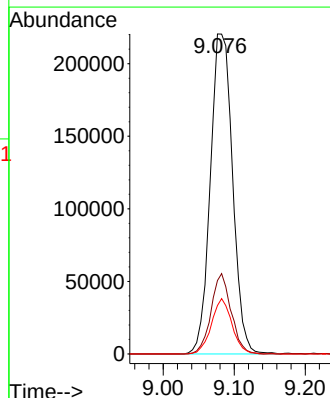
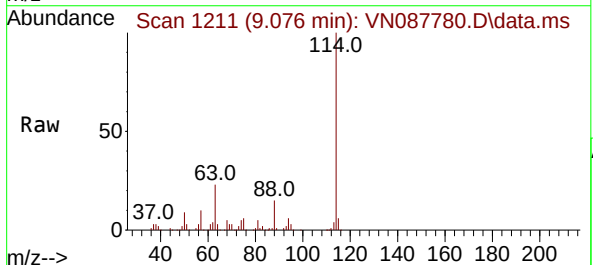
Tgt Ion: 114 Resp: 479762

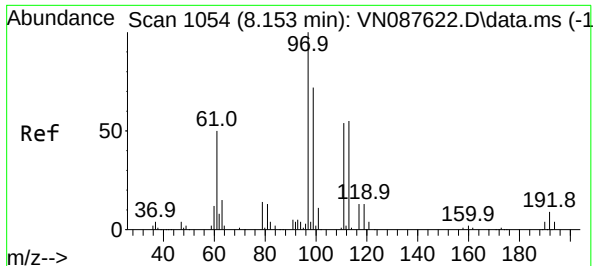
Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.2

88 15.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 48.260 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

Instrument :

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DNAPL DL

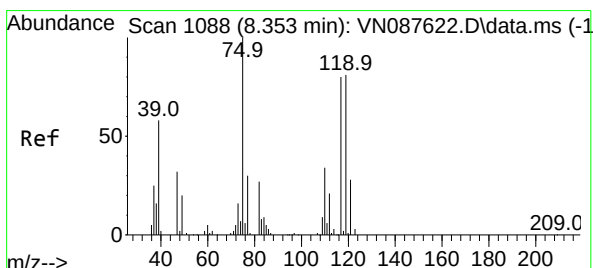
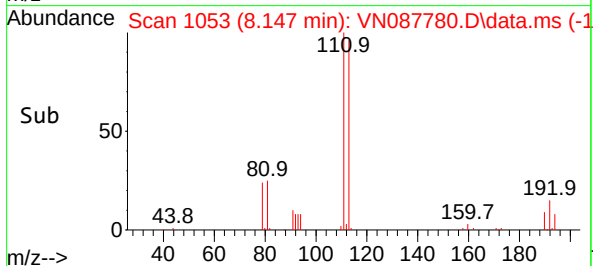
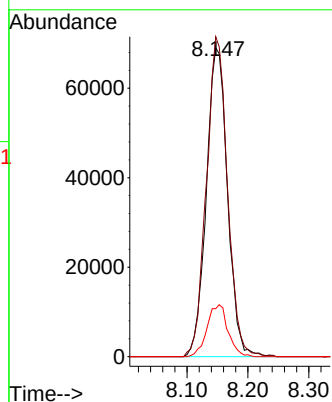
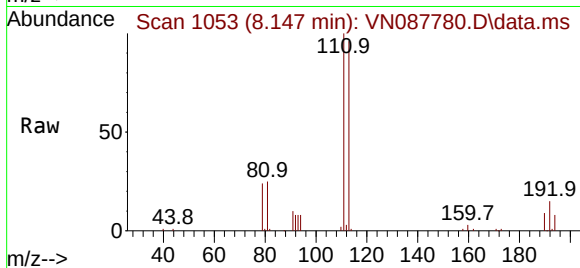
Tgt Ion:113 Resp: 167168

Ion Ratio Lower Upper

113 100

111 103.3 82.8 124.2

192 16.6 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.694 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

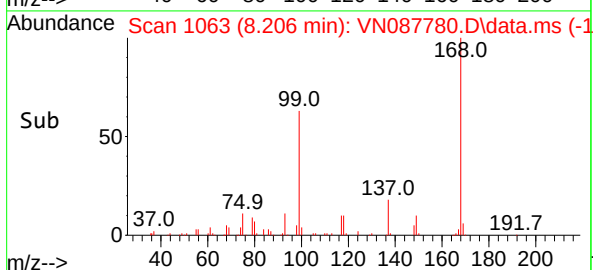
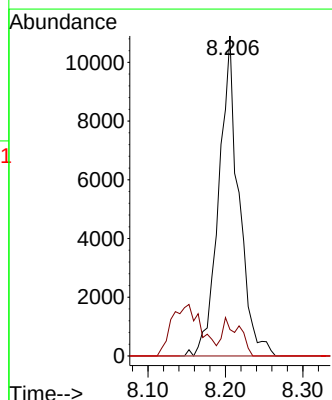
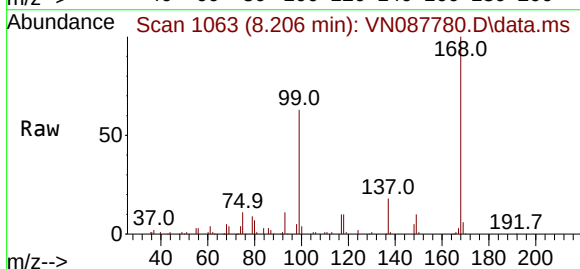
Tgt Ion: 75 Resp: 19632

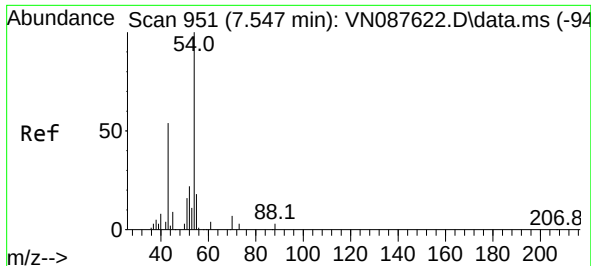
Ion Ratio Lower Upper

75 100

110 10.2 15.9 47.6#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.997 ug/l

RT: 7.482 min Scan# 94

Delta R.T. -0.065 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

DNAPL DL

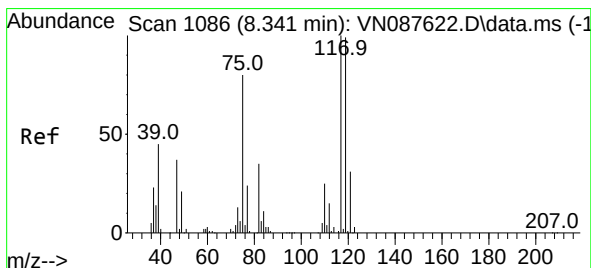
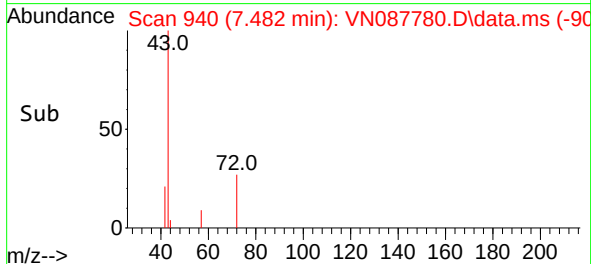
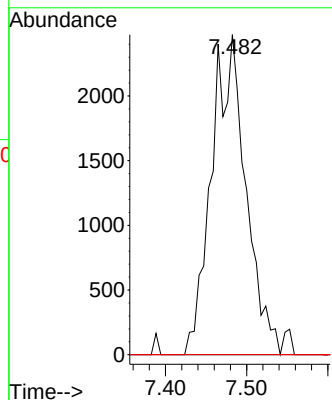
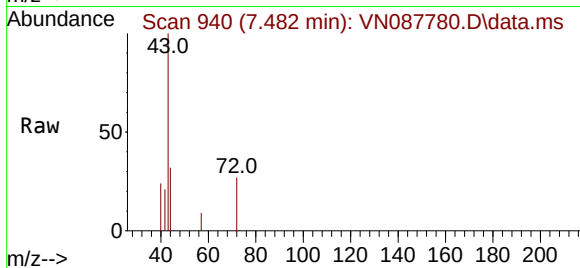
Tgt Ion: 43 Resp: 7238

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.516 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.130 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

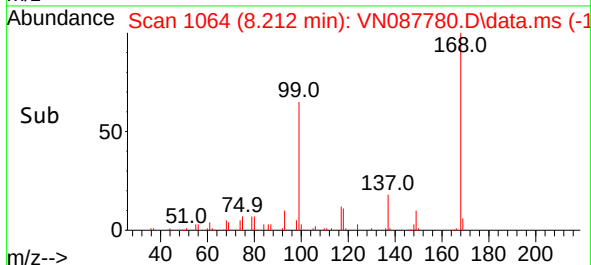
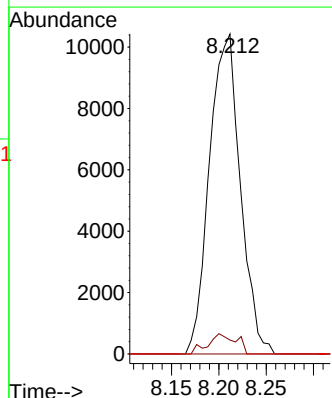
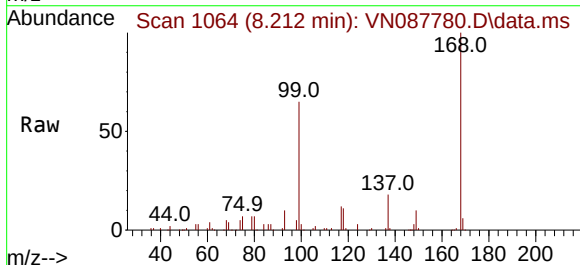
Tgt Ion: 117 Resp: 23692

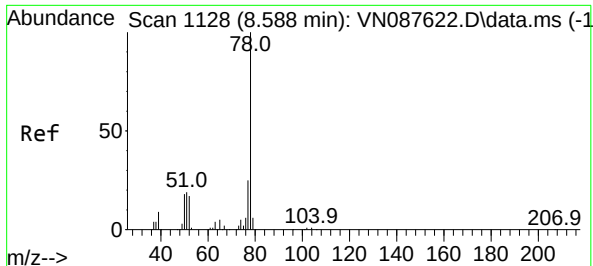
Ion Ratio Lower Upper

117 100

119 4.4 79.0 118.6#

121 0.0 25.0 37.6#

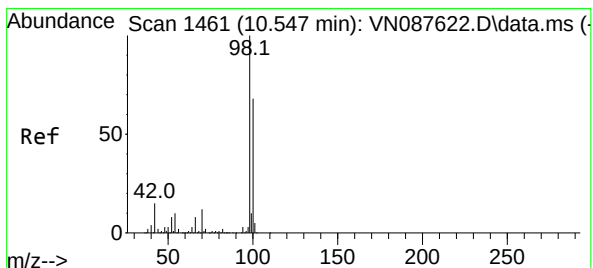
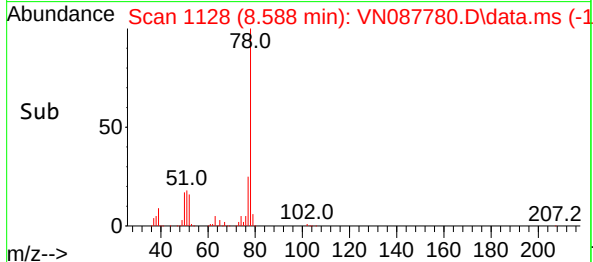
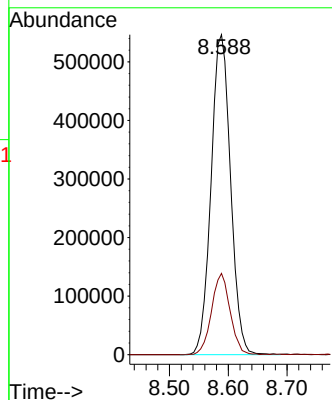
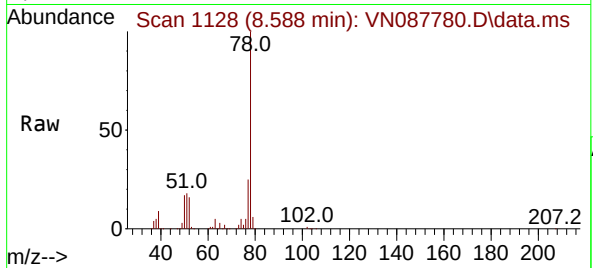




#40
Benzene
Concen: 77.224 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

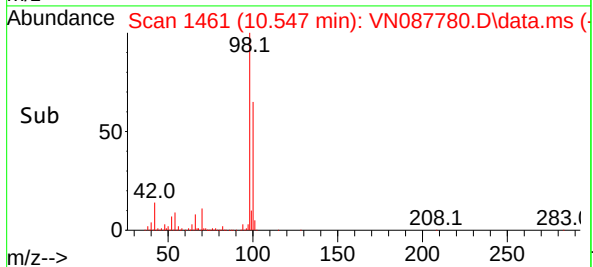
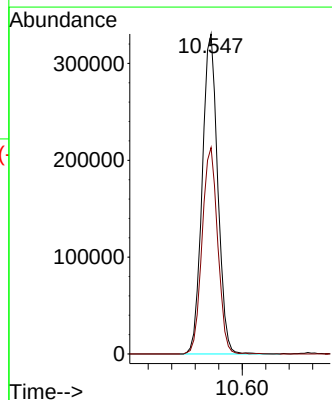
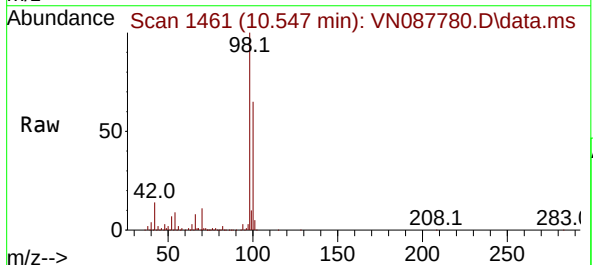
Instrument :
MSVOA_N
ClientSampleId :
DNAPLDL

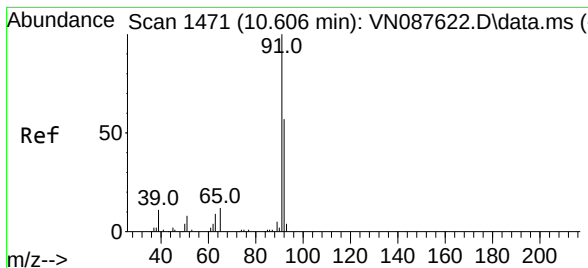
Tgt Ion: 78 Resp: 1258658
Ion Ratio Lower Upper
78 100
77 25.4 19.7 29.5



#50
Toluene-d8
Concen: 46.525 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 98 Resp: 603181
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2





#52

Toluene

Concen: 40.722 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VN087780.D

Acq: 10 Sep 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

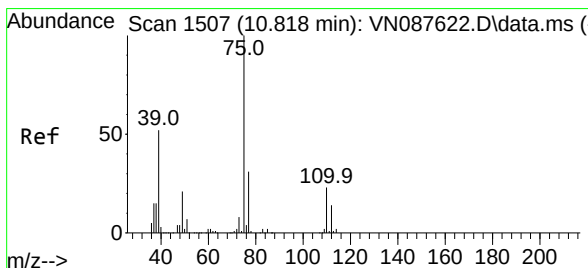
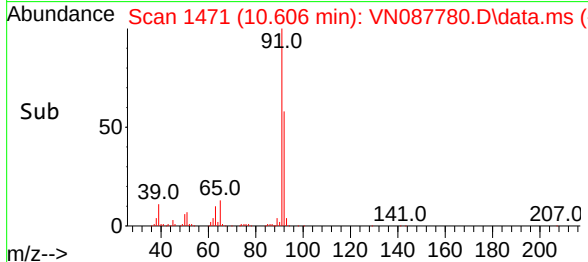
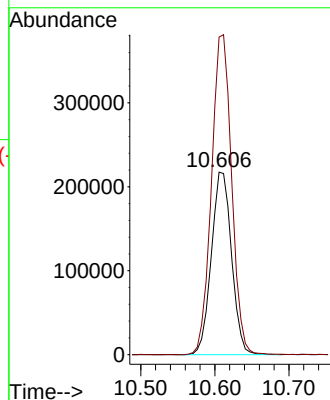
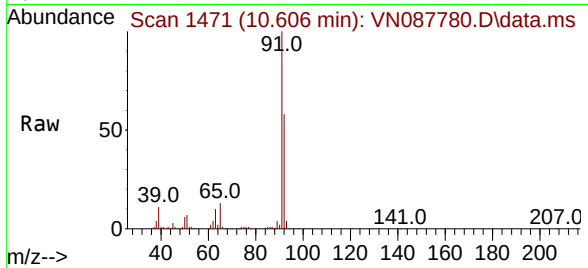
DNAPL DL

Tgt Ion: 92 Resp: 411470

Ion Ratio Lower Upper

92 100

91 175.0 140.4 210.6



#53

t-1,3-Dichloropropene

Concen: 0.858 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. -0.212 min

Lab File: VN087780.D

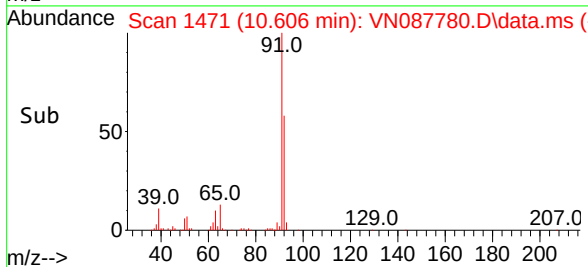
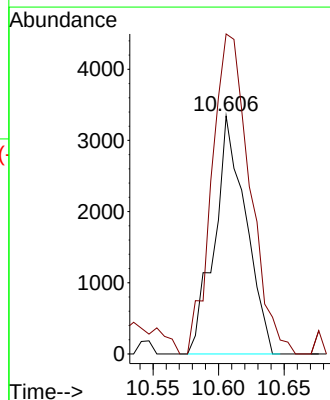
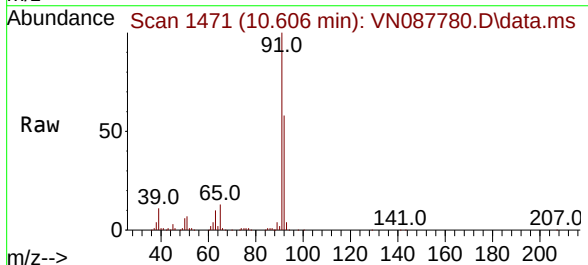
Acq: 10 Sep 2025 15:06

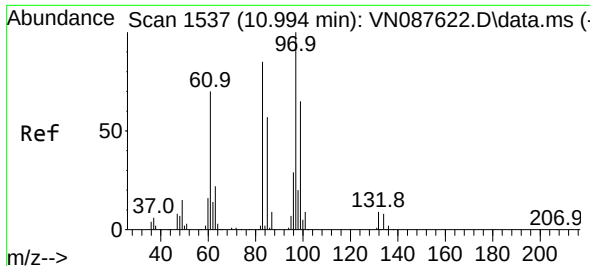
Tgt Ion: 75 Resp: 5562

Ion Ratio Lower Upper

75 100

77 134.5 25.2 37.8#

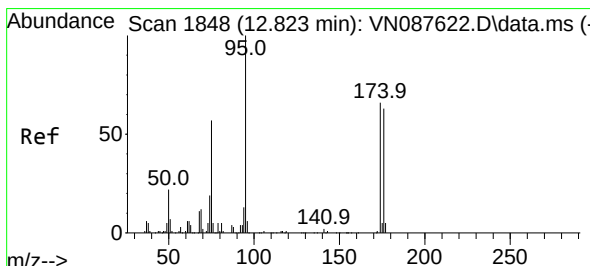
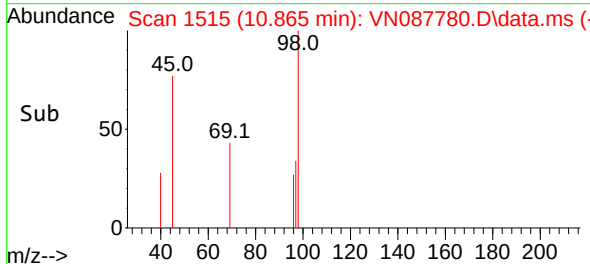
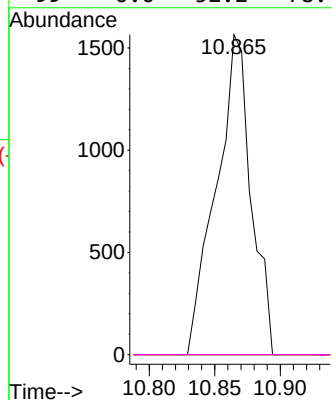
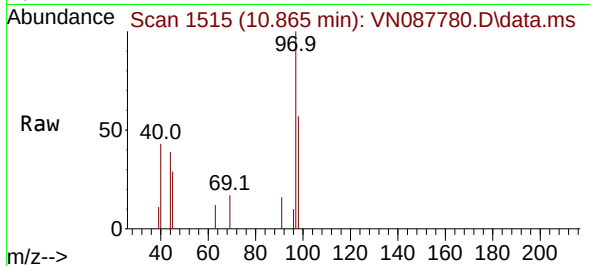




#55
 1,1,2-Trichloroethane
 Concen: 0.742 ug/l
 RT: 10.865 min Scan# 11
 Delta R.T. -0.130 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

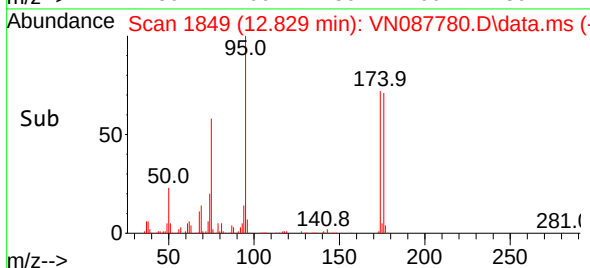
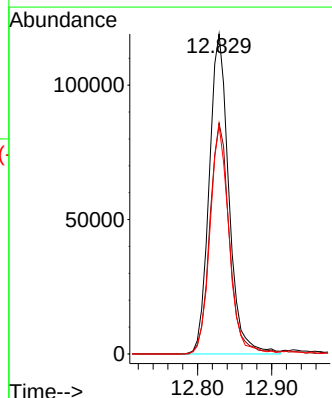
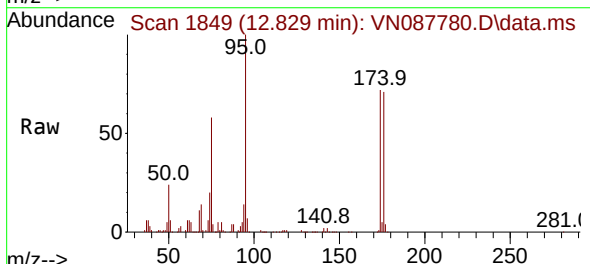
Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPL DL

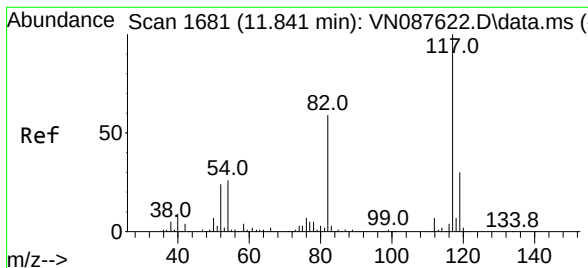
Tgt Ion: 97	Resp: 2900
Ion Ratio	Lower Upper
97 100	
83 0.0	68.2 102.4#
85 0.0	45.5 68.3#
99 0.0	52.2 78.4#



#62
 4-Bromofluorobenzene
 Concen: 47.575 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.006 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

Tgt Ion: 95	Resp: 219349
Ion Ratio	Lower Upper
95 100	
174 72.0	0.0 138.4
176 69.2	0.0 132.6

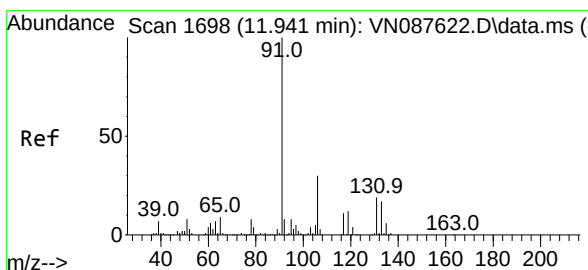
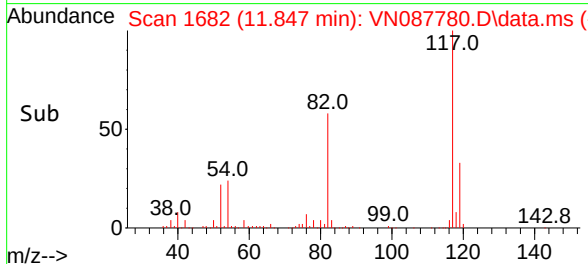
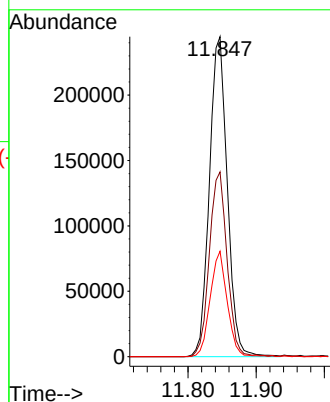
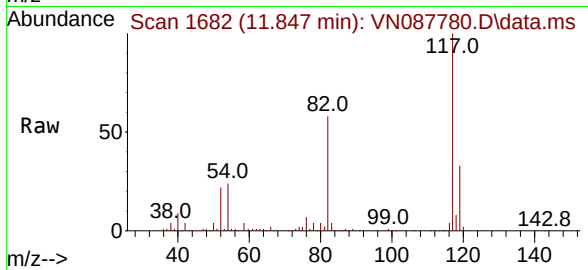




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

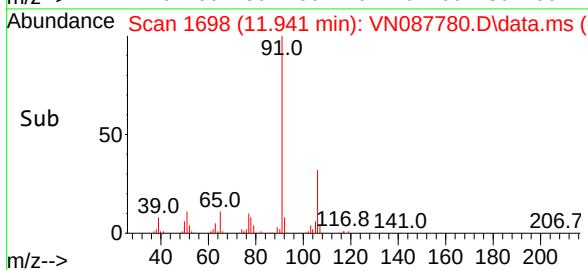
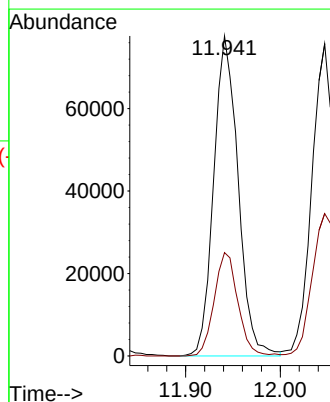
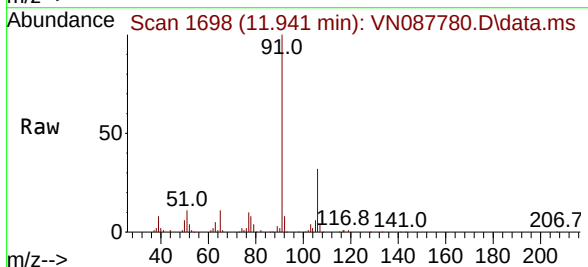
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

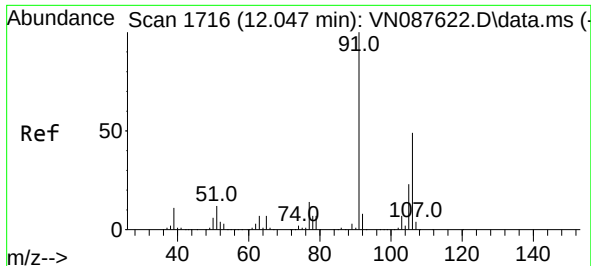
Tgt Ion:117 Resp: 447056
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 33.0 24.3 36.5



#67
Ethyl Benzene
Concen: 7.228 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 91 Resp: 139192
Ion Ratio Lower Upper
91 100
106 32.3 24.1 36.1

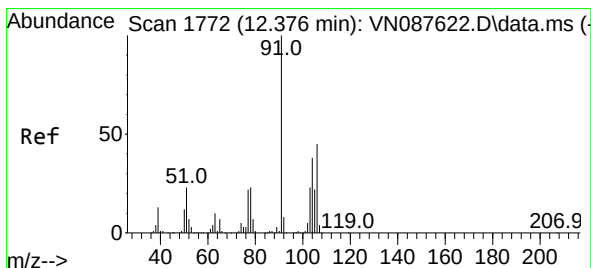
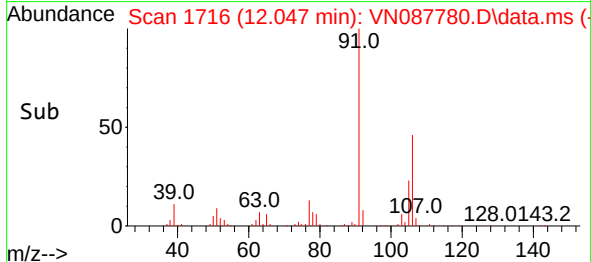
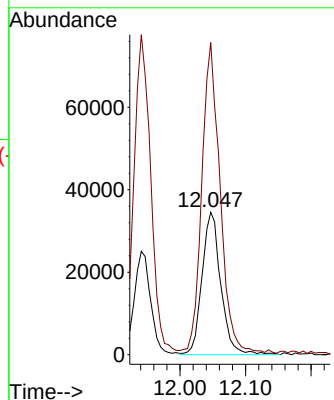
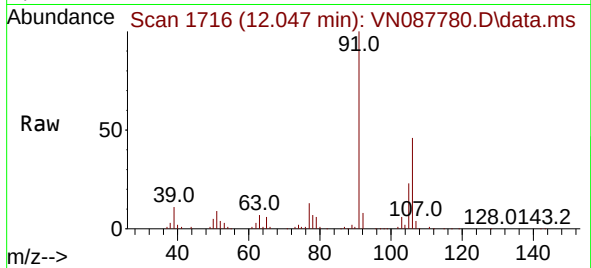




#68
m/p-Xylenes
Concen: 9.769 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

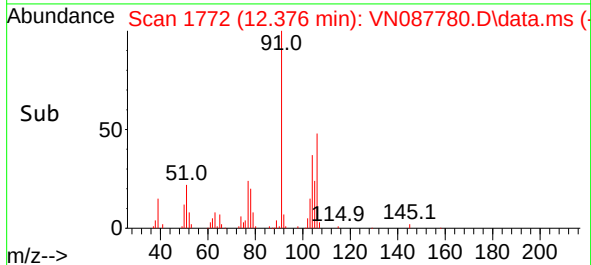
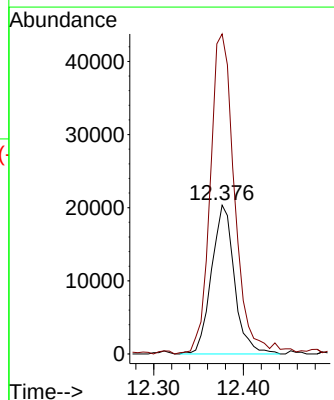
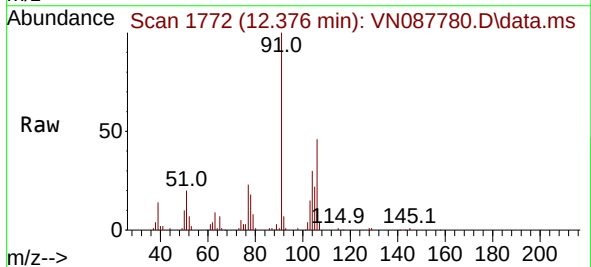
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

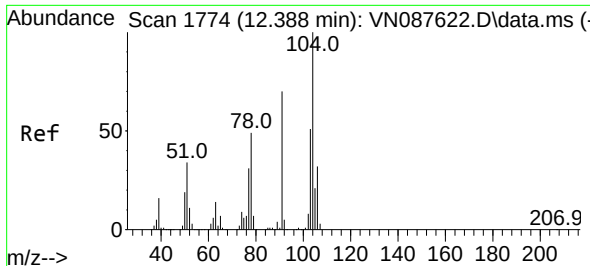
Tgt Ion:	106	Resp:	68993
Ion Ratio	Lower	Upper	
106	100		
91	211.2	169.3	253.9



#69
o-Xylene
Concen: 5.218 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion:	106	Resp:	36116
Ion Ratio	Lower	Upper	
106	100		
91	229.2	111.4	334.2

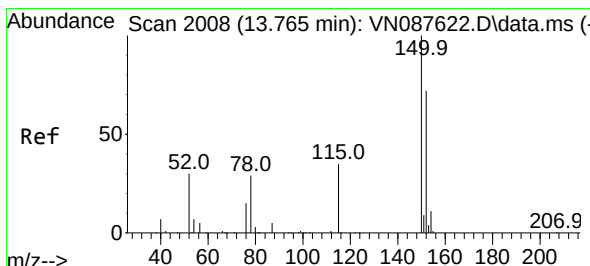
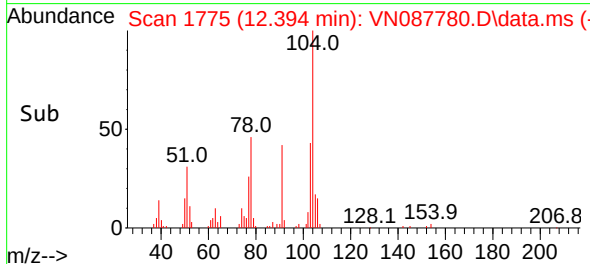
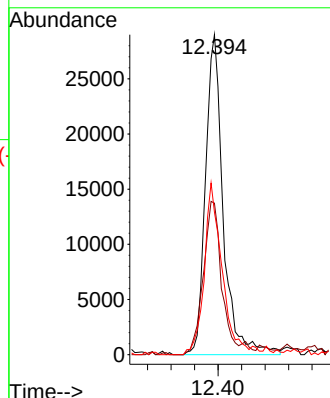
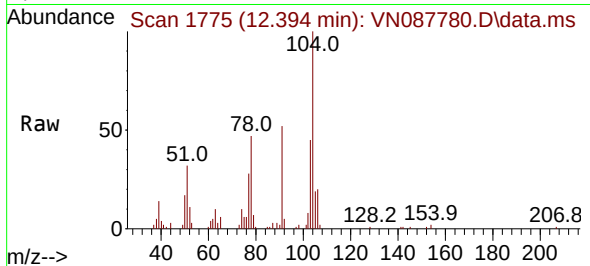




#70
Styrene
Concen: 5.238 ug/l
RT: 12.394 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

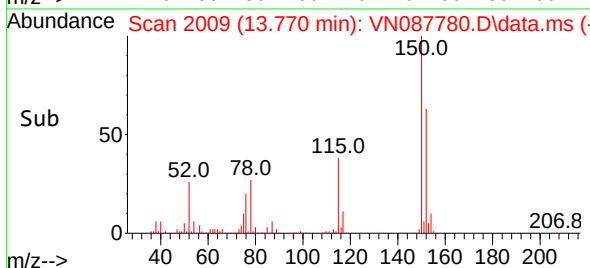
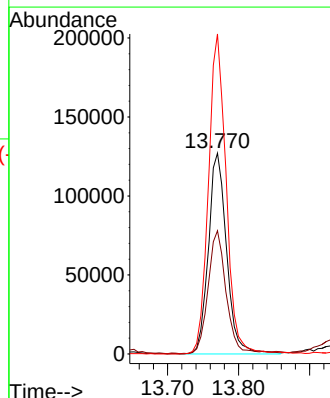
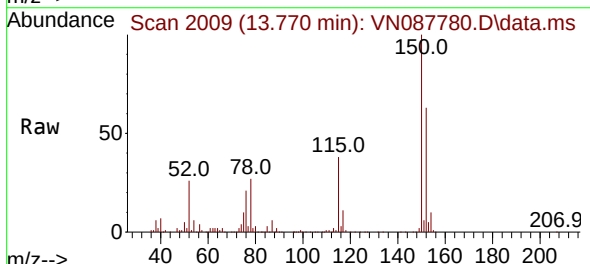
Instrument :
MSVOA_N
ClientSampleId :
DNAPLDL

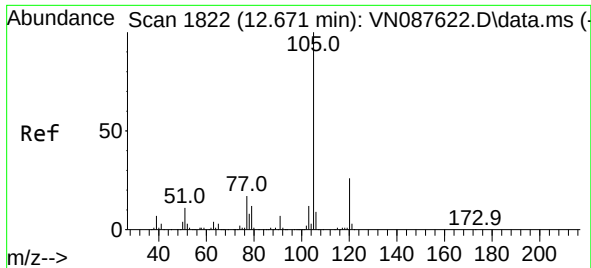
Tgt Ion:104 Resp: 60731
Ion Ratio Lower Upper
104 100
78 49.1 42.2 63.2
103 53.3 43.4 65.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion:152 Resp: 227062
Ion Ratio Lower Upper
152 100
115 59.9 32.3 96.8
150 155.0 0.0 351.0

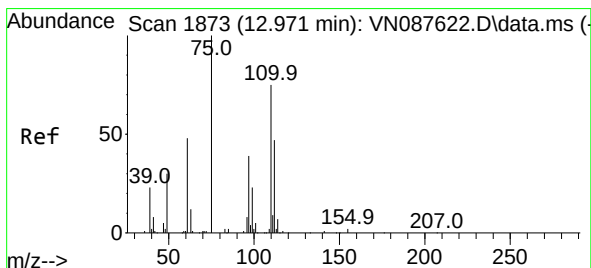
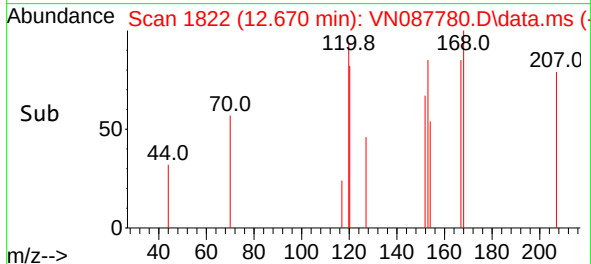
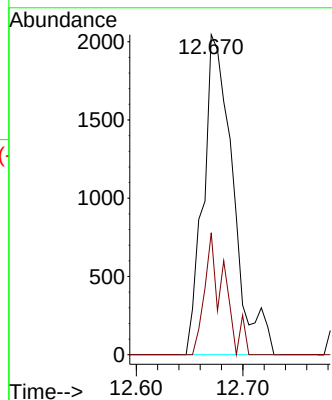
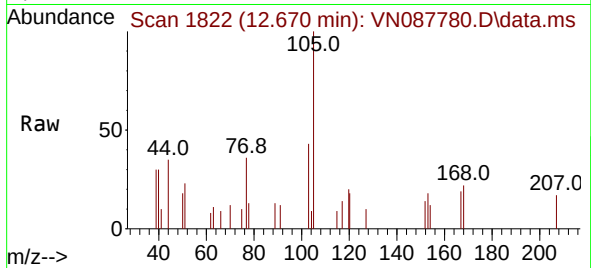




#73
Isopropylbenzene
Concen: 0.215 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

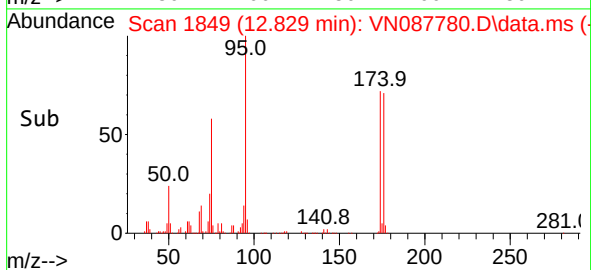
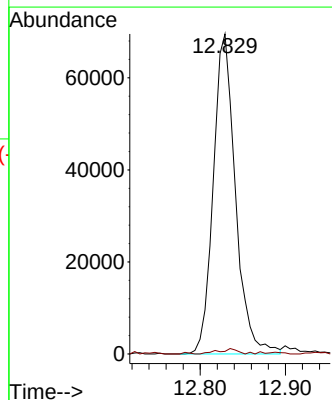
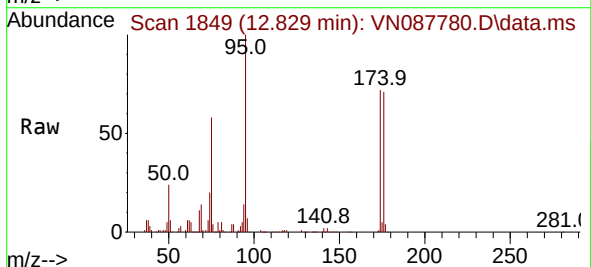
Instrument :
MSVOA_N
ClientSampleId :
DNAPLDL

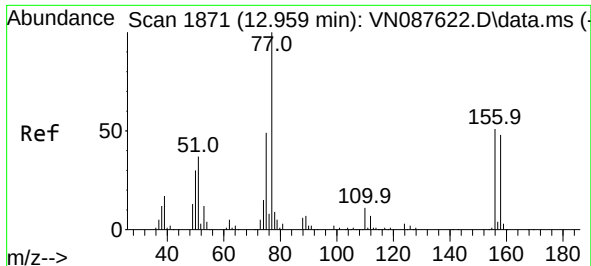
Tgt Ion:105 Resp: 3953
Ion Ratio Lower Upper
105 100
120 25.1 12.8 38.3



#76
1,2,3-Trichloropropane
Concen: 23.601 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 75 Resp: 125668
Ion Ratio Lower Upper
75 100
77 1.4 89.1 267.4#

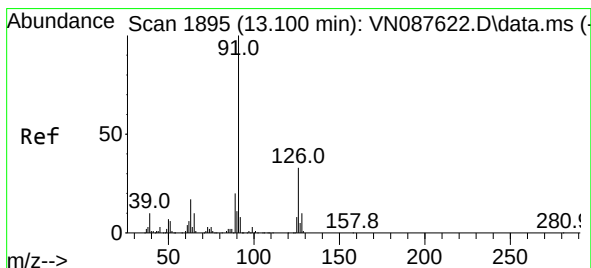
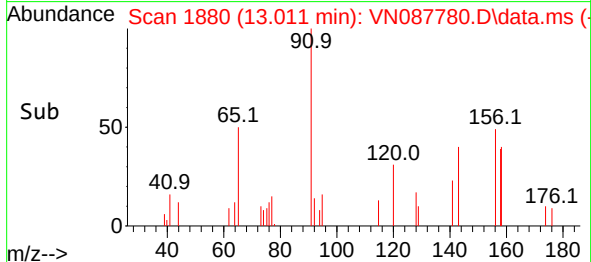
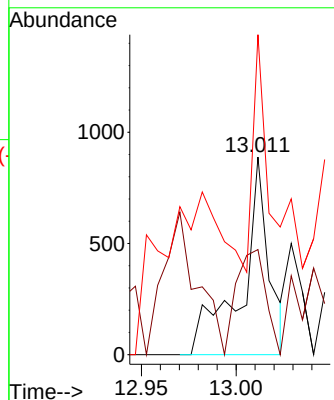
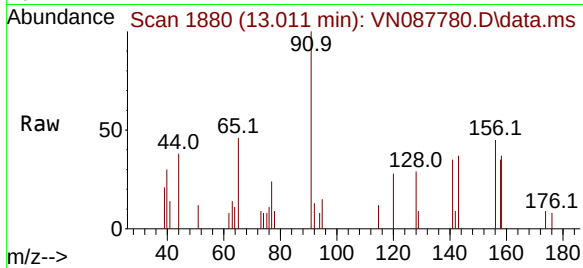




#77
Bromobenzene
Concen: 0.206 ug/l
RT: 13.011 min Scan# 1880
Delta R.T. 0.053 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

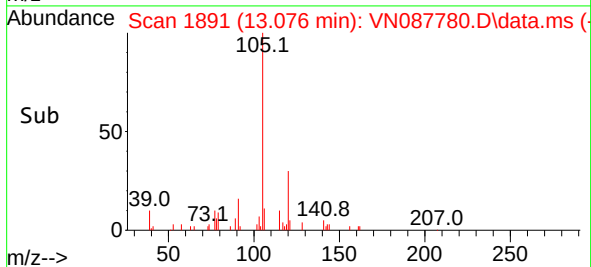
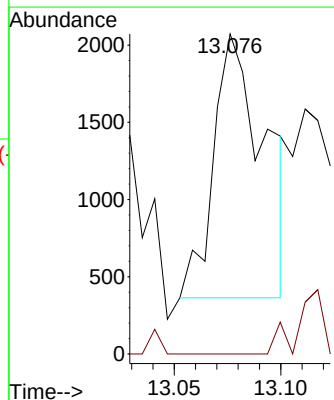
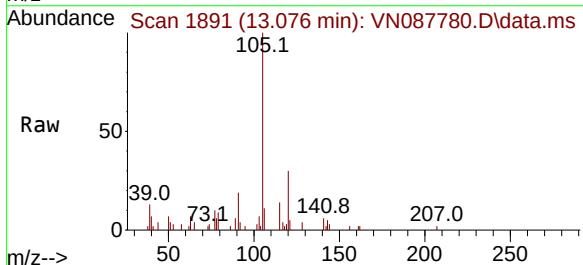
Instrument :
MSVOA_N
ClientSampleId :
DNAPL DL

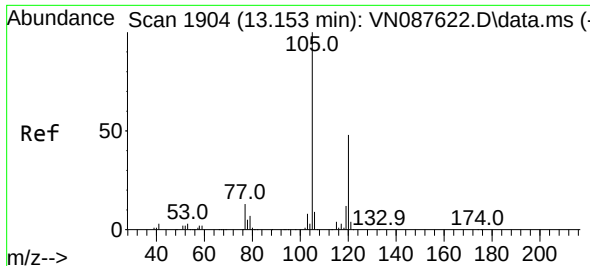
Tgt Ion:156 Resp: 890
Ion Ratio Lower Upper
156 100
77 57.0 119.3 358.0#
158 162.9 48.2 144.6#



#79
2-Chlorotoluene
Concen: 0.207 ug/l
RT: 13.076 min Scan# 1891
Delta R.T. -0.024 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion: 91 Resp: 2816
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#

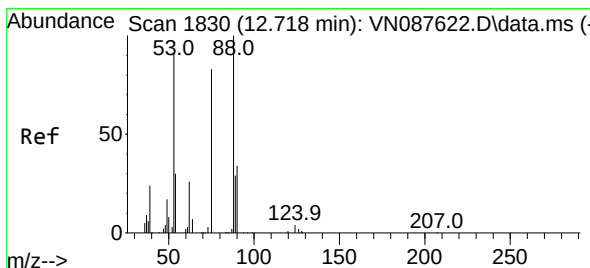
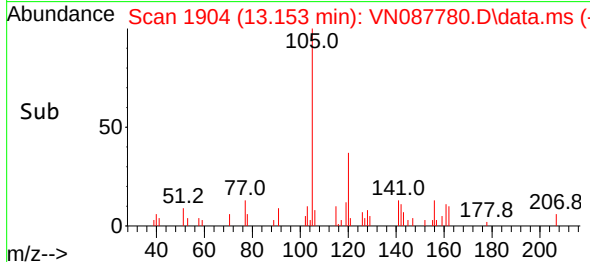
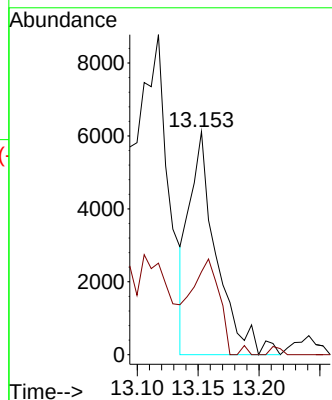
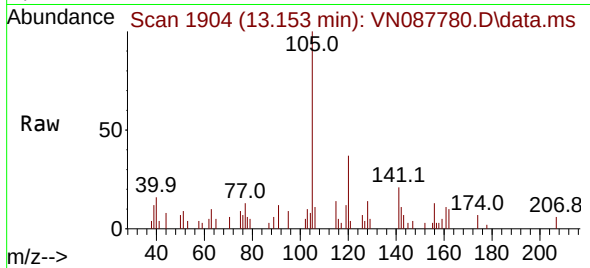




#80
 1,3,5-Trimethylbenzene
 Concen: 0.611 ug/l
 RT: 13.153 min Scan# 1904
 Delta R.T. -0.000 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

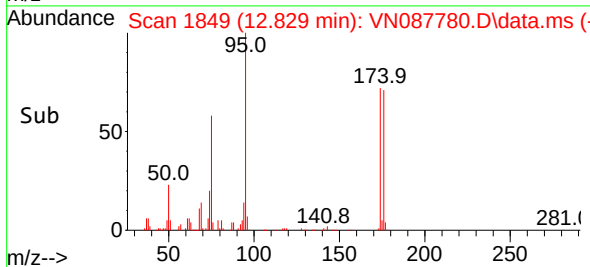
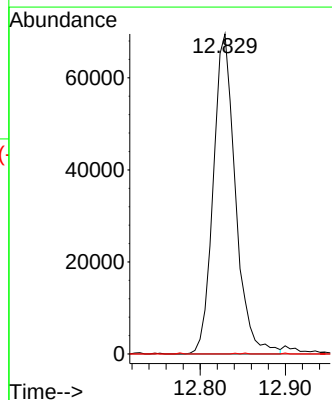
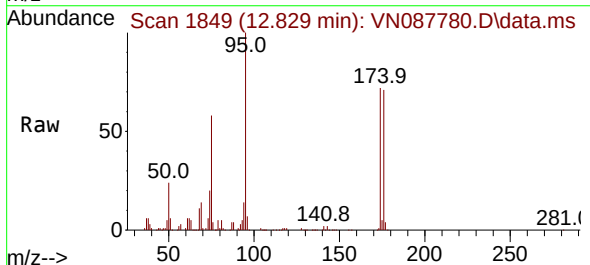
Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPLDL

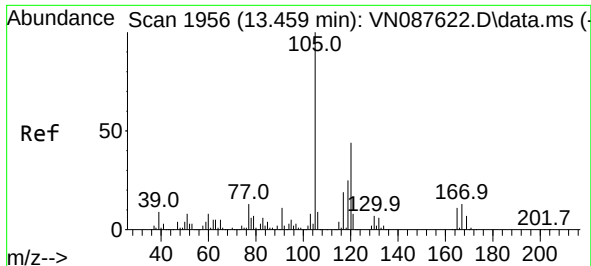
Tgt Ion:105 Resp: 9513
 Ion Ratio Lower Upper
 105 100
 120 43.4 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.481 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

Tgt Ion: 75 Resp: 125668
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 35.6 53.4#

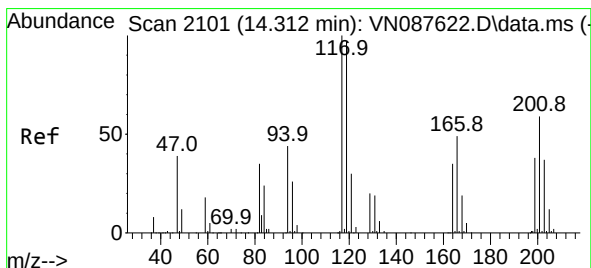
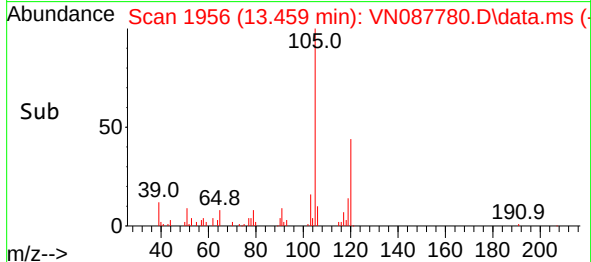
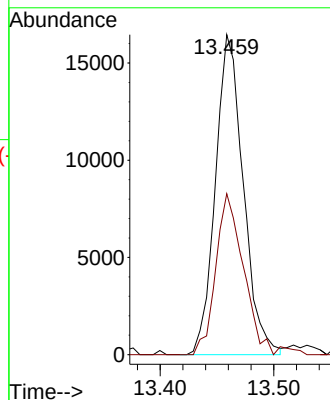
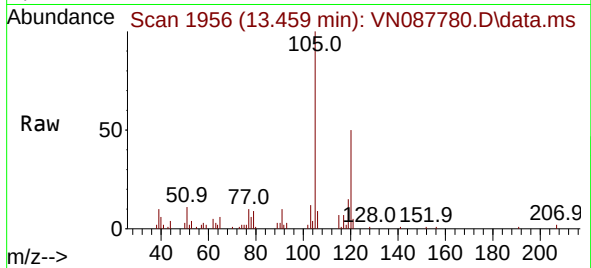




#84
1,2,4-Trimethylbenzene
Concen: 1.801 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

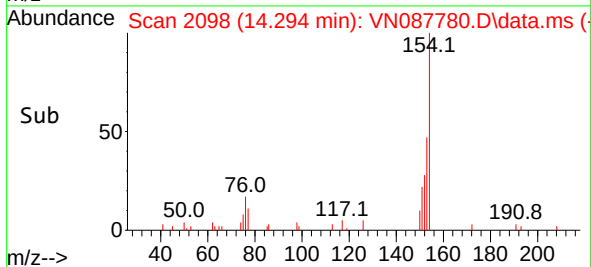
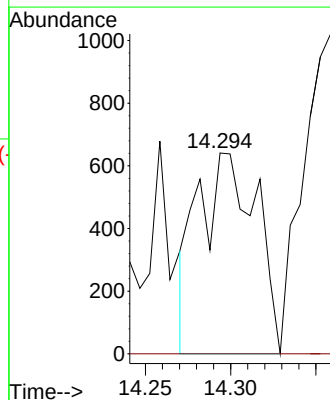
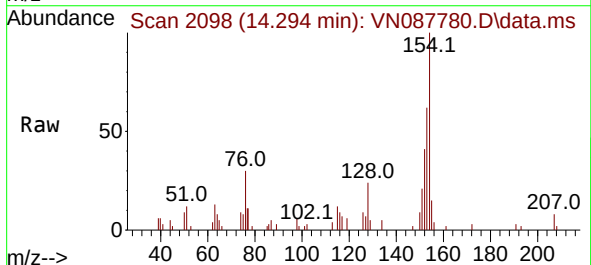
Instrument :
MSVOA_N
ClientSampleId :
DNAPLDL

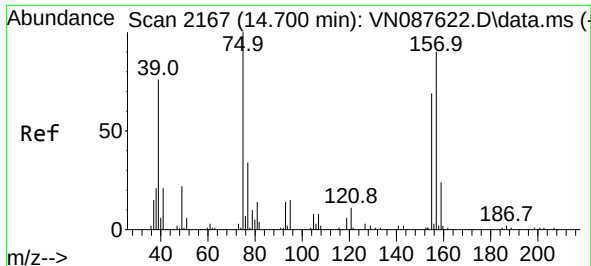
Tgt Ion:105 Resp: 28067
Ion Ratio Lower Upper
105 100
120 50.4 22.0 66.0



#90
Hexachloroethane
Concen: 0.504 ug/l
RT: 14.294 min Scan# 2098
Delta R.T. -0.018 min
Lab File: VN087780.D
Acq: 10 Sep 2025 15:06

Tgt Ion:117 Resp: 1527
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#

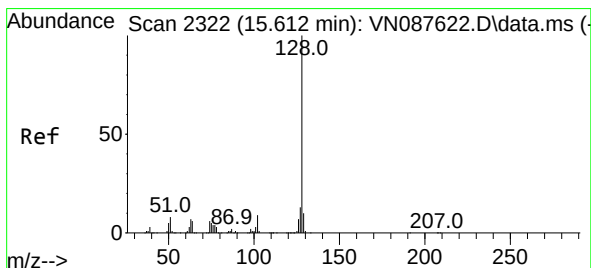
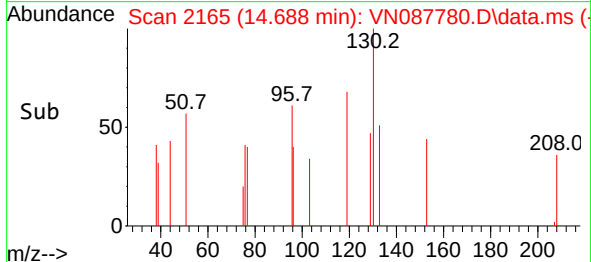
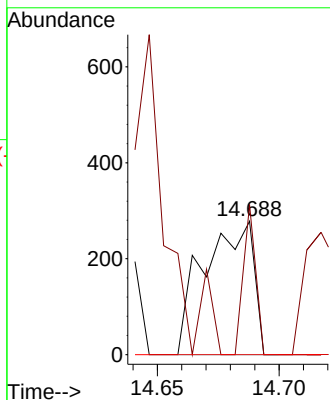
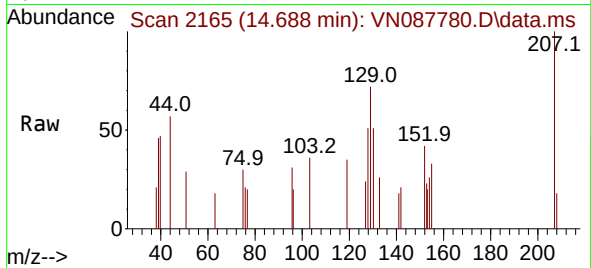




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.263 ug/l
 RT: 14.688 min Scan# 2165
 Delta R.T. -0.012 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

Instrument :
 MSVOA_N
 ClientSampleId :
 DNAPLDL

Tgt Ion: 75 Resp: 395
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.6 109.9#
 157 0.0 45.6 136.9#



#95
 Naphthalene
 Concen: 60.599 ug/l
 RT: 15.611 min Scan# 2322
 Delta R.T. -0.000 min
 Lab File: VN087780.D
 Acq: 10 Sep 2025 15:06

Tgt Ion: 128 Resp: 1041754
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.6 15.8
 129 11.1 8.6 12.8

