

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032025\
 Data File : BN036693.D
 Acq On : 20 Mar 2025 12:49
 Operator : RC/JU
 Sample : Q1546-01
 Misc : MDL-WATER 4 ppm
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-QT1-2025-01

Quant Time: Mar 20 13:44:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SFAM-EPA-BN022825.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Mar 20 13:16:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.705	152	89990	20.000	ng/u1	0.00
20) Naphthalene-d8	10.487	136	388926	20.000	ng/u1	0.00
38) Acenaphthene-d10	14.346	164	260340	20.000	ng/u1	0.00
64) Phenanthrene-d10	17.092	188	540501	20.000	ng/u1	0.00
79) Chrysene-d12	21.328	240	552070	20.000	ng/u1	0.00
88) Perylene-d12	24.280	264	559302	20.000	ng/u1	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.193	96	10060	4.346	ng/uL	0.00
4) Pyridine-d5	3.599	84	168376	23.798	ng/u1	0.00
7) Phenol-d5	6.875	99	204968	23.847	ng/u1	0.00
9) Bis-(2-Chloroethyl)eth...	7.040	67	154767	25.310	ng/u1	0.00
11) 2-Chlorophenol-d4	7.234	132	156202	25.846	ng/u1	0.00
15) 4-Methylphenol-d8	8.411	113	160265	22.582	ng/u1	0.00
21) Nitrobenzene-d5	8.858	128	82624	26.875	ng/u1	0.00
24) 2-Nitrophenol-d4	9.575	143	86032	26.487	ng/u1	0.00
28) 2,4-Dichlorophenol-d3	10.110	165	144647	24.553	ng/u1	0.00
31) 4-Chloroaniline-d4	10.628	131	224753	24.705	ng/u1	0.00
46) Dimethylphthalate-d6	13.757	166	552813	28.235	ng/u1	0.00
49) Acenaphthylene-d8	14.040	160	601706	27.512	ng/u1	0.00
54) 4-Nitrophenol-d4	14.546	143	97901	25.244	ng/u1	0.00
60) Fluorene-d10	15.340	176	451583	27.346	ng/u1	0.00
65) 4,6-Dinitro-2-methylph...	15.463	200	89073	24.083	ng/u1	0.00
73) Anthracene-d10	17.192	188	704320	26.480	ng/u1	0.00
81) Pyrene-d10	19.486	212	857477	28.431	ng/u1	0.00
92) Benzo(a)pyrene-d12	24.074	264	798334	28.647	ng/u1	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.234	88	3647m	1.405	ng/uL	
5) Pyridine	3.623	79	34207	4.634	ng/u1#	58
6) Benzaldehyde	6.846	77	27189	5.366	ng/u1	94
8) Phenol	6.899	94	39428	4.279	ng/u1	96
10) Bis(2-Chloroethyl)ether	7.128	93	32395	4.502	ng/u1	95
12) 2-Chlorophenol	7.269	128	29298	4.595	ng/u1	99
13) 2-Methylphenol	8.146	108	24946	3.759	ng/u1	100
14) 2,2'-oxybis(1-Chloropr...	8.222	45	65658	4.754	ng/u1	99
16) Acetophenone	8.522	105	52890	4.384	ng/u1	97
17) N-Nitroso-di-n-propyla...	8.511	70	28880	4.263	ng/u1	96
18) 4-Methylphenol	8.475	108	29750	3.924	ng/u1	91
19) Hexachloroethane	8.775	117	14193	4.843	ng/u1	100
22) Nitrobenzene	8.899	77	44732	4.811	ng/u1	97
23) Isophorone	9.422	82	75949	4.386	ng/u1	98
25) 2-Nitrophenol	9.605	139	16145	4.463	ng/u1	88
26) 2,4-Dimethylphenol	9.669	107	17417	2.278	ng/u1	95
27) Bis(2-Chloroethoxy)met...	9.905	93	44493	4.557	ng/u1	98
29) 2,4-Dichlorophenol	10.134	162	27034	4.474	ng/u1	95
30) Naphthalene	10.540	128	103341	4.805	ng/u1	98
32) 4-Chloroaniline	10.652	127	38720	4.398	ng/u1	97
33) Hexachlorobutadiene	10.828	225	18881	4.744	ng/u1	94
34) Caprolactam	11.440	113	10306m	4.118	ng/u1	
35) 4-Chloro-3-methylphenol	11.781	107	30452	3.974	ng/u1	95
36) 2-Methylnaphthalene	12.157	142	67606	4.516	ng/u1	98

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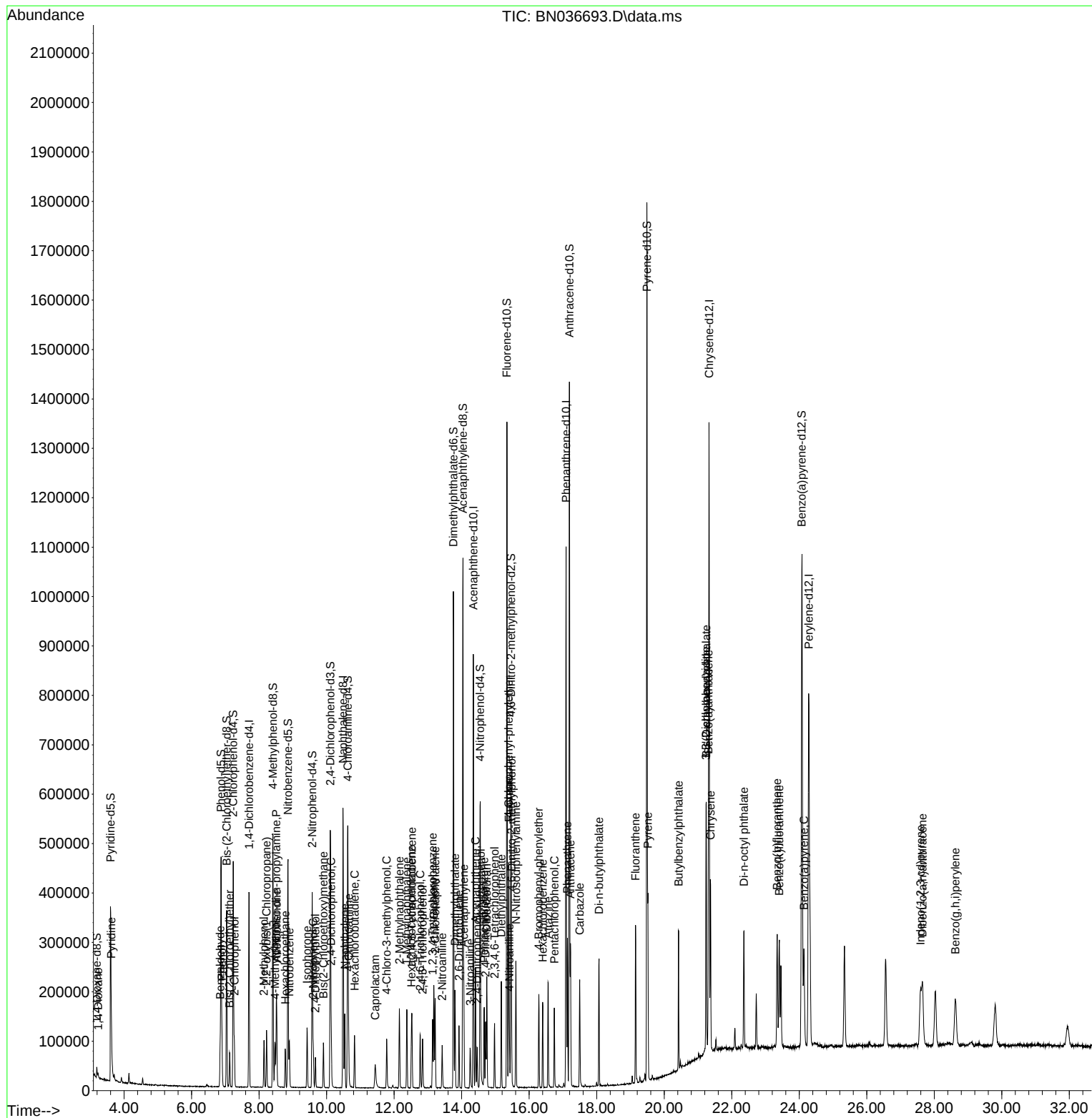
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1-Methylnaphthalene	12.375	142	64161	4.250	ng/ul	98
39) 1,2,4,5-Tetrachloroben...	12.528	216	35187	4.820	ng/ul	98
40) Hexachlorocyclopentadiene	12.510	237	20888	4.848	ng/ul#	95
41) 2,4,6-Trichlorophenol	12.775	196	19785	4.120	ng/ul	95
42) 2,4,5-Trichlorophenol	12.846	196	22008	4.183	ng/ul	97
43) 1,1'-Biphenyl	13.175	154	94474	4.914	ng/ul	98
44) 2-Chloronaphthalene	13.216	162	74203	4.977	ng/ul	98
45) 2-Nitroaniline	13.422	65	23274	3.889	ng/ul	97
47) Dimethylphthalate	13.804	163	98190	4.973	ng/ul	100
48) 2,6-Dinitrotoluene	13.922	165	16302	4.229	ng/ul	94
50) Acenaphthylene	14.069	152	117075	4.946	ng/ul	97
51) 3-Nitroaniline	14.257	138	14787	3.552	ng/ul	99
52) Acenaphthene	14.410	153	84195	4.934	ng/ul	94
53) 2,4-Dinitrophenol	14.463	184	12297	4.640	ng/ul	96
55) 4-Nitrophenol	14.563	109	17962	4.705	ng/ul	92
56) Dibenzofuran	14.746	168	116354	4.948	ng/ul	99
57) 2,4-Dinitrotoluene	14.710	165	25866	4.382	ng/ul#	80
58) 2,3,4,6-Tetrachlorophenol	14.975	232	19531	4.440	ng/ul#	96
59) Diethylphthalate	15.175	149	98639	4.810	ng/ul	98
61) Fluorene	15.398	166	96588	4.969	ng/ul	99
62) 4-Chlorophenyl-phenyle...	15.393	204	45064	4.861	ng/ul	98
63) 4-Nitroaniline	15.416	138	14702	3.589	ng/ul	91
66) 4,6-Dinitro-2-methylph...	15.475	198	20212	5.084	ng/ul#	86
67) N-Nitrosodiphenylamine	15.610	169	76559	4.637	ng/ul	100
68) 4-Bromophenyl-phenylether	16.287	248	24871	4.746	ng/ul	98
69) Hexachlorobenzene	16.404	284	26933	4.613	ng/ul	96
70) Atrazine	16.563	200	30858	5.025	ng/ul	95
71) Pentachlorophenol	16.745	266	19277	4.778	ng/ul	93
72) Phenanthrene	17.134	178	151534	4.841	ng/ul	98
74) Anthracene	17.222	178	152606	4.788	ng/ul	98
75) 1,2,3,4-Tetrachloroben...	13.140	216	32698	4.421	ng/ul	92
76) Pentachlorobenzene	14.669	250	33245	4.464	ng/ul	96
77) Carbazole	17.498	167	129805	4.532	ng/ul	99
78) Di-n-butylphthalate	18.069	149	158006	4.435	ng/ul	98
80) Fluoranthene	19.151	202	169807	4.811	ng/ul	97
82) Pyrene	19.516	202	192555	5.012	ng/ul	98
83) Butylbenzylphthalate	20.428	149	67891	4.285	ng/ul	98
84) 3,3'-Dichlorobenzidine	21.239	252	43390	4.269	ng/ul	99
85) Benzo(a)anthracene	21.310	228	182024	4.786	ng/ul	99
86) Bis(2-ethylhexyl)phtha...	21.245	149	109817	4.771	ng/ul	96
87) Chrysene	21.375	228	175068	4.782	ng/ul	95
89) Di-n-octyl phthalate	22.363	149	157075	4.176	ng/ul	100
90) Benzo(b)fluoranthene	23.345	252	168620	4.919	ng/ul	97
91) Benzo(k)fluoranthene	23.410	252	168092	4.858	ng/ul	97
93) Benzo(a)pyrene	24.145	252	158938	4.857	ng/ul	97
94) Indeno(1,2,3-cd)pyrene	27.592	276	186629	4.671	ng/ul	95
95) Dibenzo(a,h)anthracene	27.651	278	149894	4.706	ng/ul	98
96) Benzo(g,h,i)perylene	28.621	276	143690	4.618	ng/ul	99

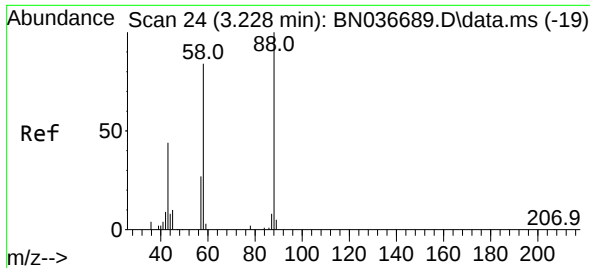
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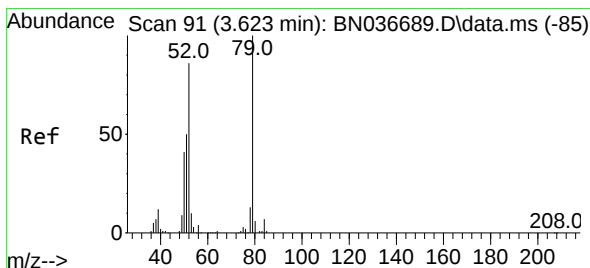
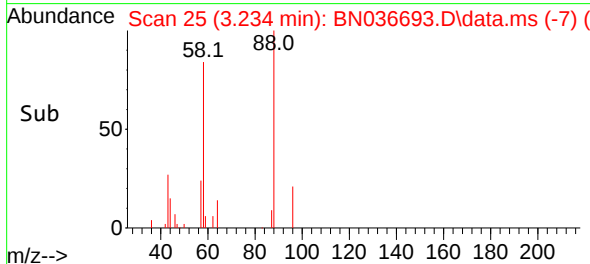
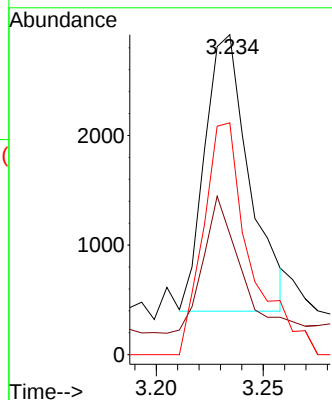
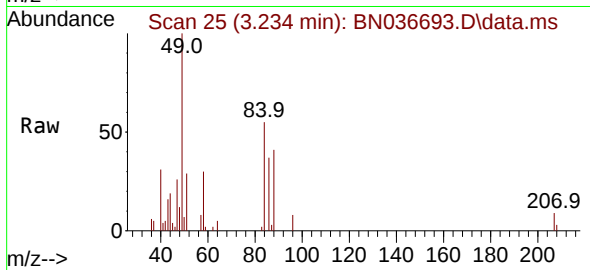




#2
1,4-Dioxane
Concen: 1.405 ng/uL m
RT: 3.234 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

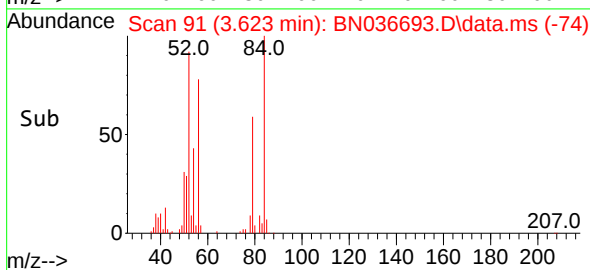
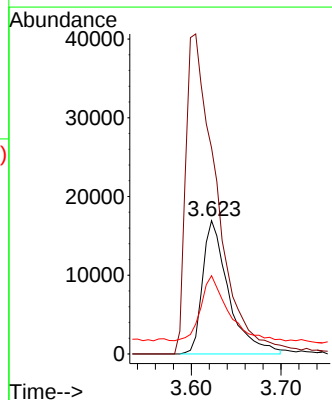
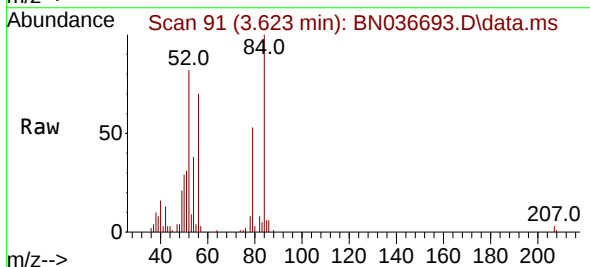
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MDL-WATER-QT1-2025-01

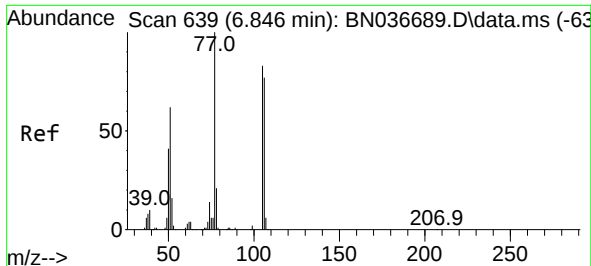
Tgt Ion: 88 Resp: 3647
Ion Ratio Lower Upper
88 100
43 37.7 31.8 47.8
58 72.5 69.9 104.9



#5
Pyridine
Concen: 4.634 ng/uL
RT: 3.623 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion: 79 Resp: 34207
Ion Ratio Lower Upper
79 100
52 154.5 78.8 118.2#
51 58.6 39.7 59.5

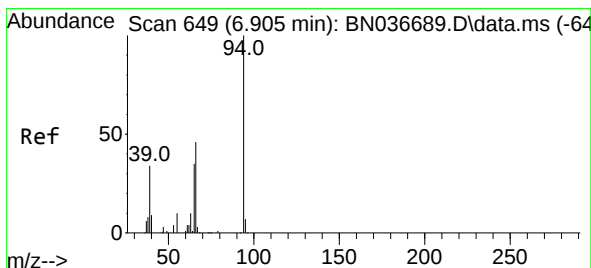
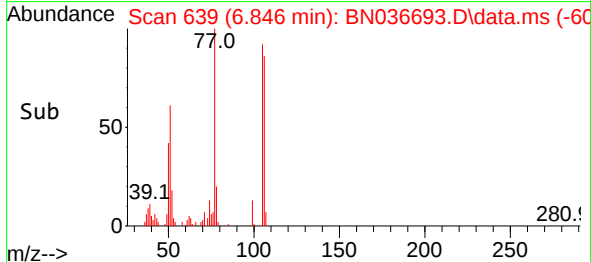
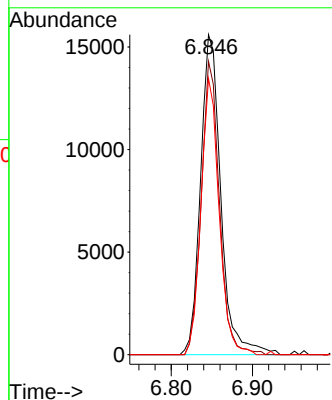
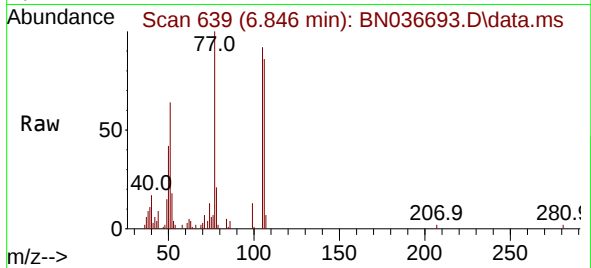




#6
Benzaldehyde
Concen: 5.366 ng/ul
RT: 6.846 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

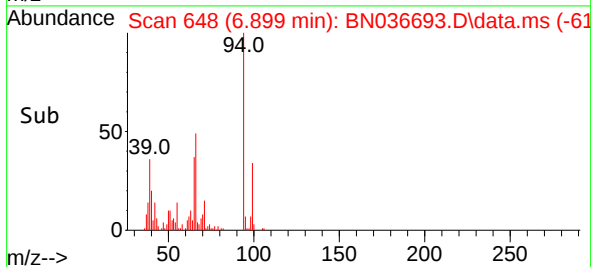
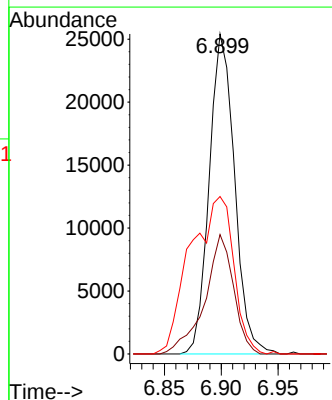
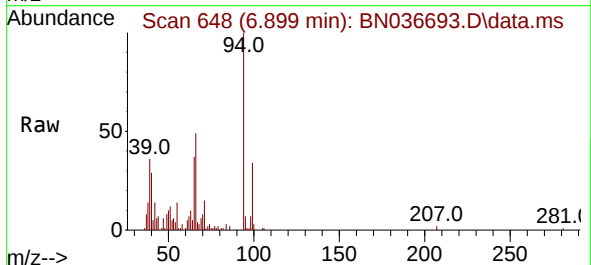
Instrument :
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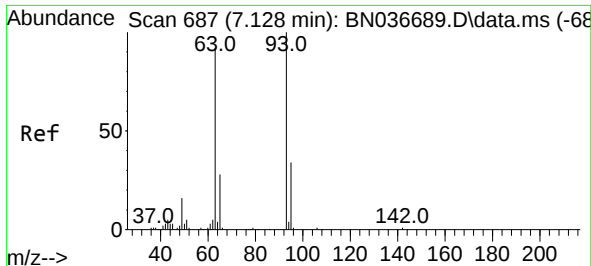
Tgt Ion: 77 Resp: 27189
Ion Ratio Lower Upper
77 100
105 91.6 68.7 103.1
106 86.3 65.4 98.2



#8
Phenol
Concen: 4.279 ng/ul
RT: 6.899 min Scan# 648
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion: 94 Resp: 39428
Ion Ratio Lower Upper
94 100
65 37.3 27.1 40.7
66 49.2 37.6 56.4

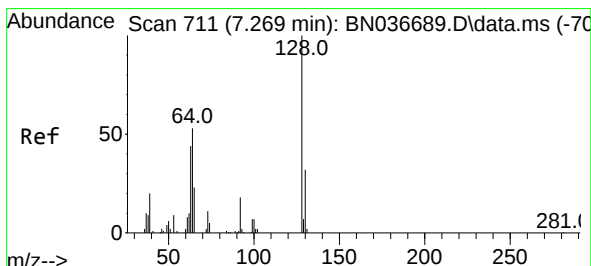
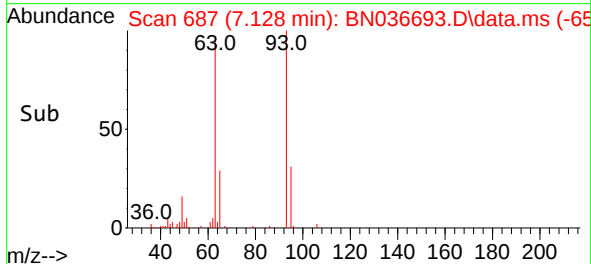
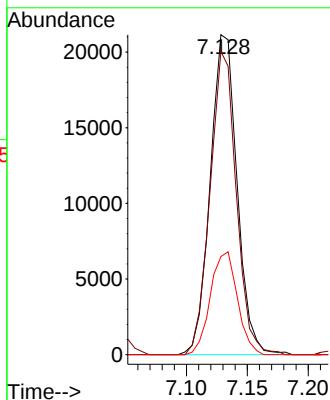
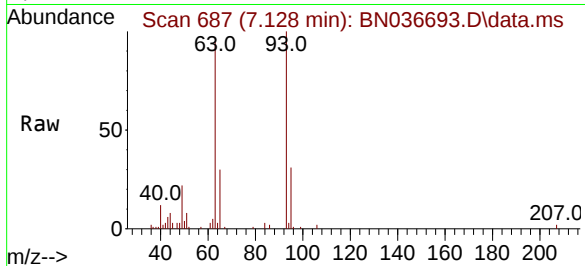




#10
 Bis(2-Chloroethyl)ether
 Concen: 4.502 ng/ul
 RT: 7.128 min Scan# 687
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

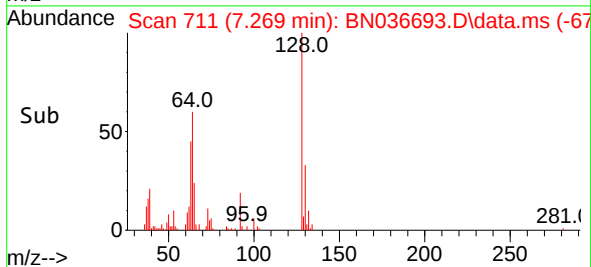
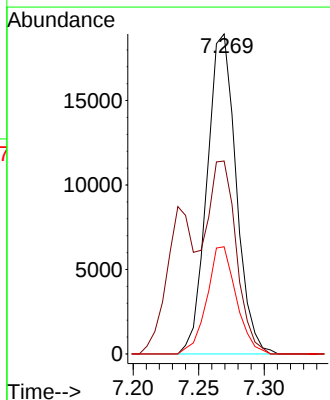
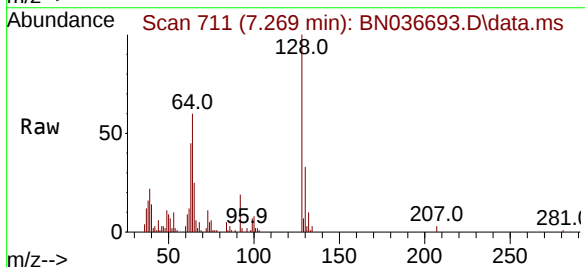
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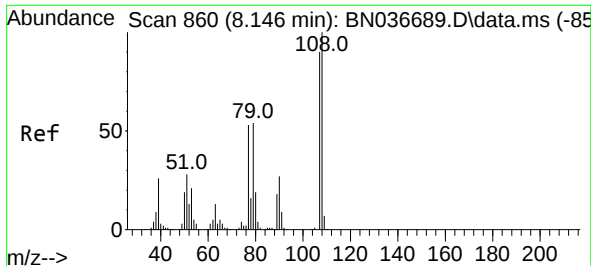
Tgt Ion:	93	Resp:	32395
Ion	Ratio	Lower	Upper
93	100		
63	94.8	71.7	107.5
95	30.6	26.8	40.2



#12
 2-Chlorophenol
 Concen: 4.595 ng/ul
 RT: 7.269 min Scan# 711
 Delta R.T. 0.000 min
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Tgt Ion:	128	Resp:	29298
Ion	Ratio	Lower	Upper
128	100		
64	60.3	48.5	72.7
130	33.5	25.9	38.9

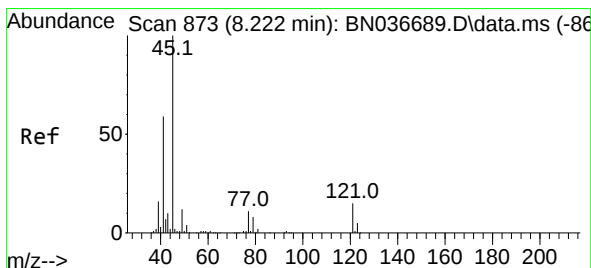
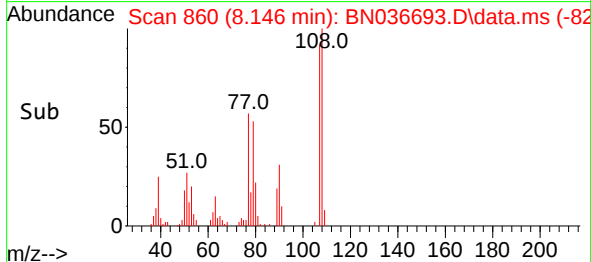
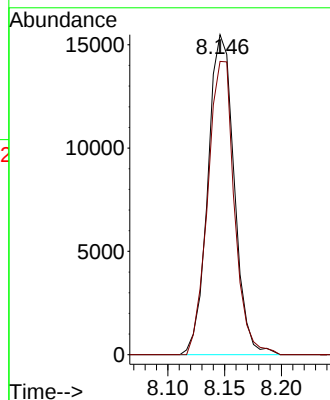
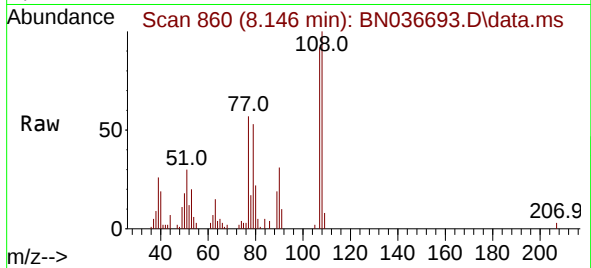




#13
2-Methylphenol
Concen: 3.759 ng/ul
RT: 8.146 min Scan# 860
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

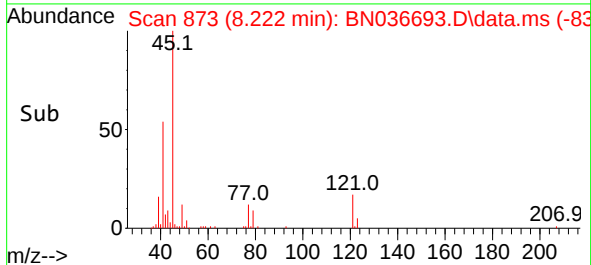
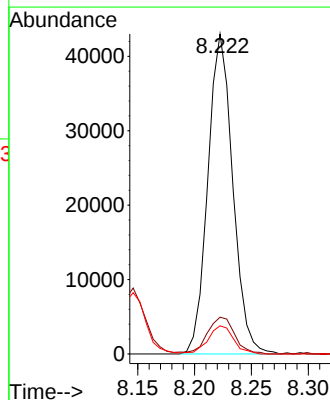
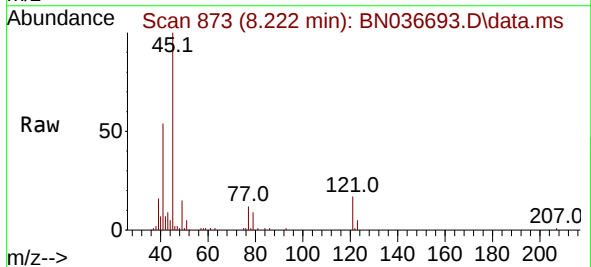
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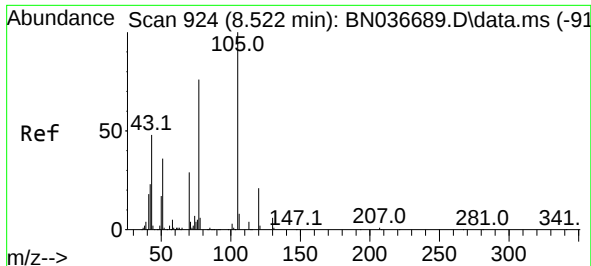
Tgt Ion:108 Resp: 24946
Ion Ratio Lower Upper
108 100
107 91.7 73.0 109.4



#14
2,2'-oxybis(1-Chloropropane)
Concen: 4.754 ng/ul
RT: 8.222 min Scan# 873
Delta R.T. 0.000 min
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Tgt Ion: 45 Resp: 65658
Ion Ratio Lower Upper
45 100
77 11.5 9.9 14.9
79 8.8 7.0 10.4

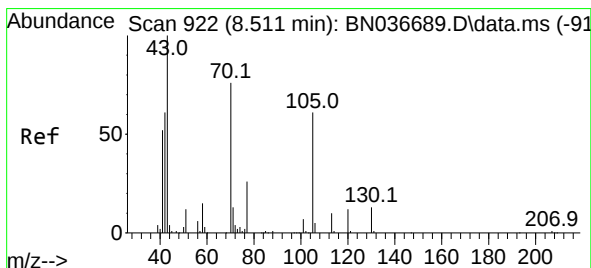
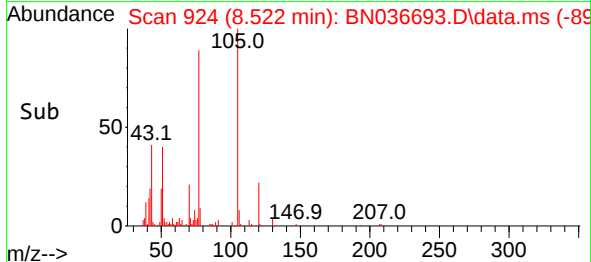
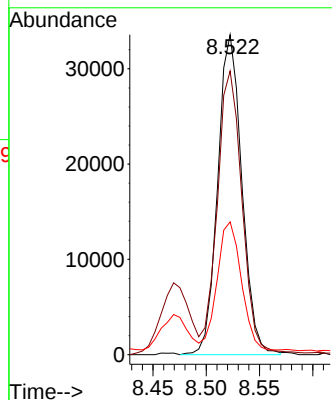
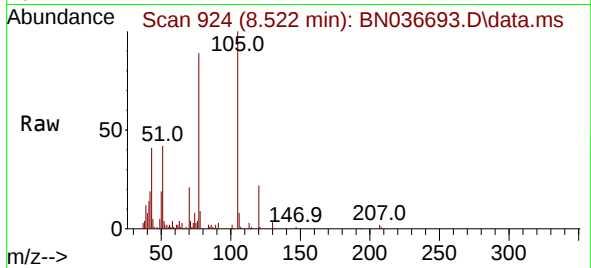




#16
Acetophenone
Concen: 4.384 ng/ul
RT: 8.522 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

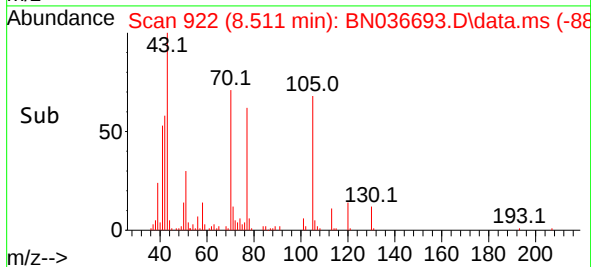
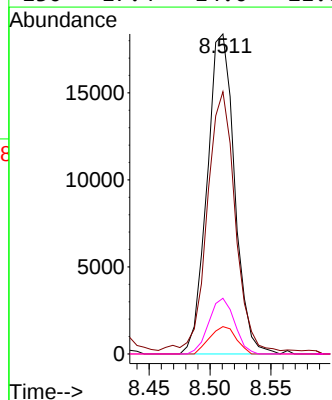
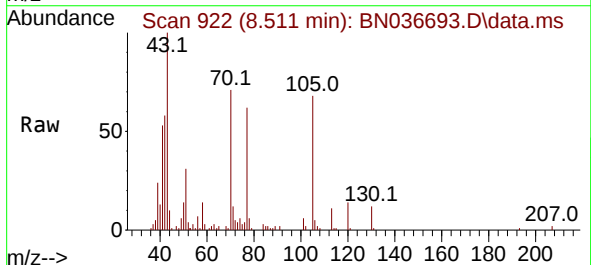
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

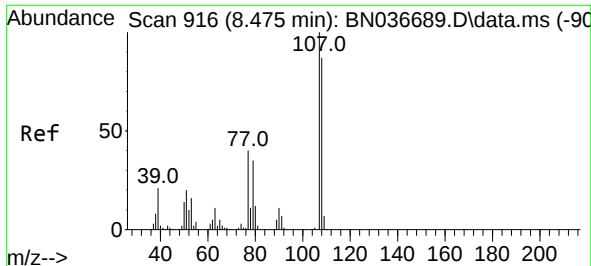
Tgt Ion:105 Resp: 52890
Ion Ratio Lower Upper
105 100
77 88.6 71.9 107.9
51 41.5 30.6 46.0



#17
N-Nitroso-di-n-propylamine
Concen: 4.263 ng/ul
RT: 8.511 min Scan# 922
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion: 70 Resp: 28880
Ion Ratio Lower Upper
70 100
42 81.9 61.7 92.5
101 8.5 6.6 10.0
130 17.4 14.0 21.0

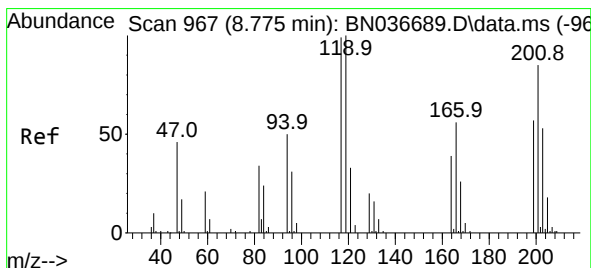
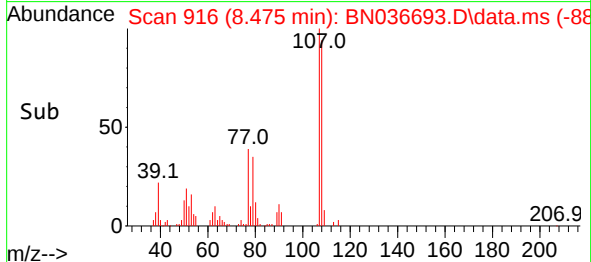
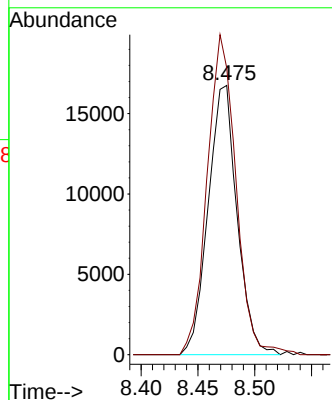
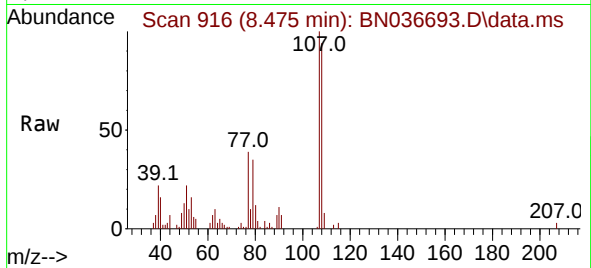




#18
4-Methylphenol
Concen: 3.924 ng/ul
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

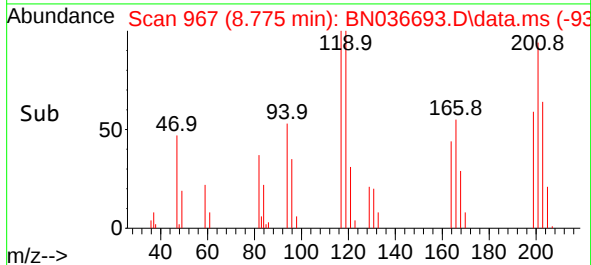
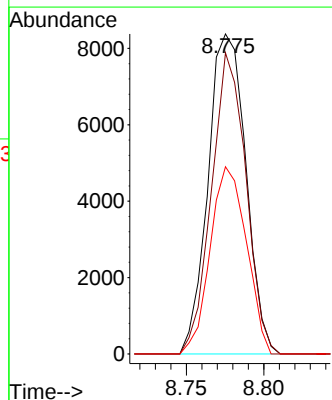
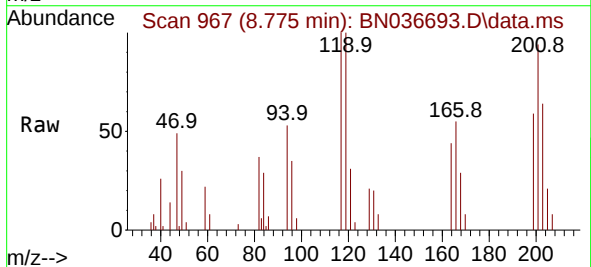
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

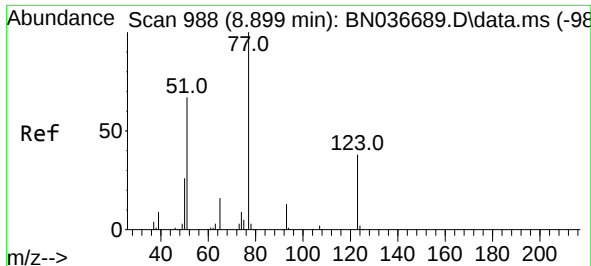
Tgt Ion:108 Resp: 29750
Ion Ratio Lower Upper
108 100
107 106.4 92.8 139.2



#19
Hexachloroethane
Concen: 4.843 ng/ul
RT: 8.775 min Scan# 967
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:117 Resp: 14193
Ion Ratio Lower Upper
117 100
201 94.1 75.6 113.4
199 58.5 47.0 70.6

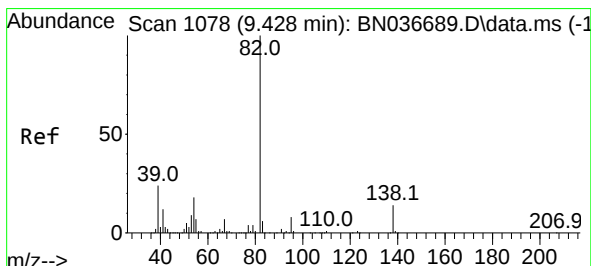
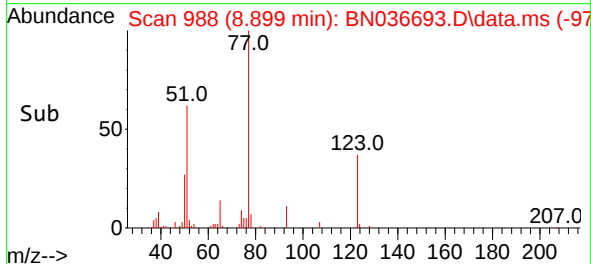
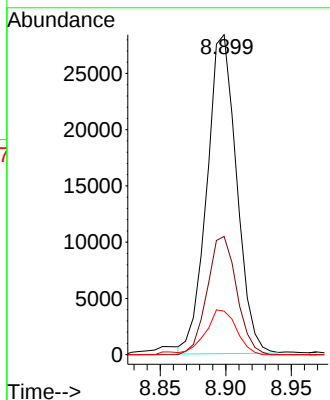
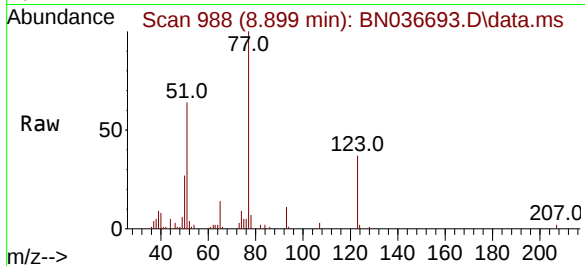




#22
Nitrobenzene
Concen: 4.811 ng/ul
RT: 8.899 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

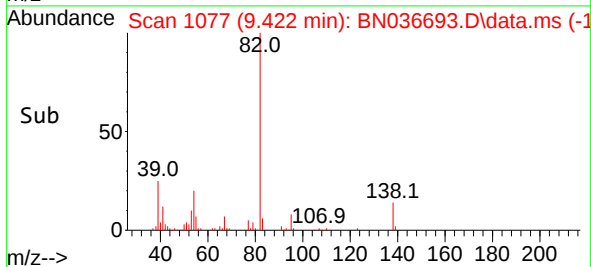
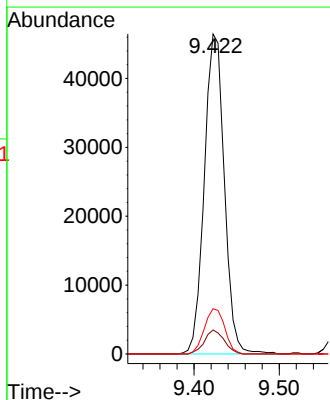
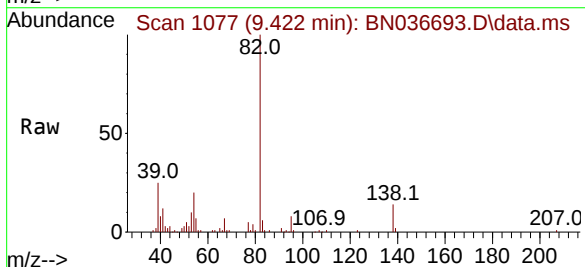
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

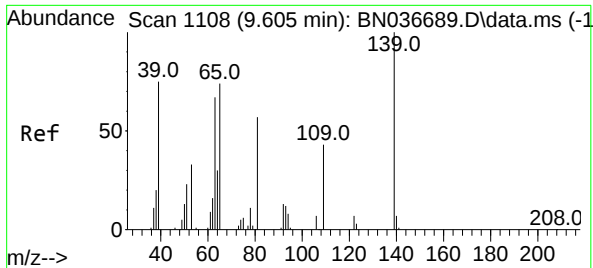
Tgt Ion	Ratio	Lower	Upper
77	100		
123	36.9	30.6	46.0
65	13.6	12.1	18.1



#23
Isophorone
Concen: 4.386 ng/ul
RT: 9.422 min Scan# 1077
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	14.1	12.2	18.2

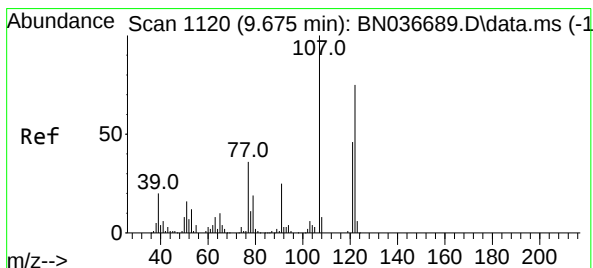
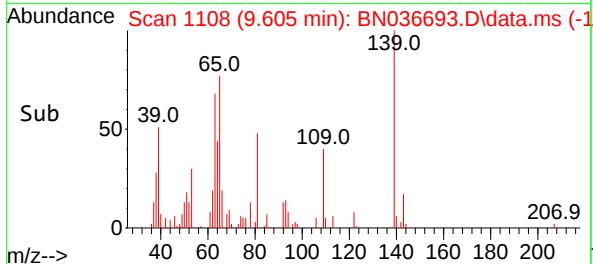
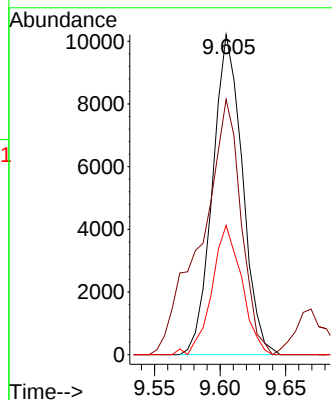
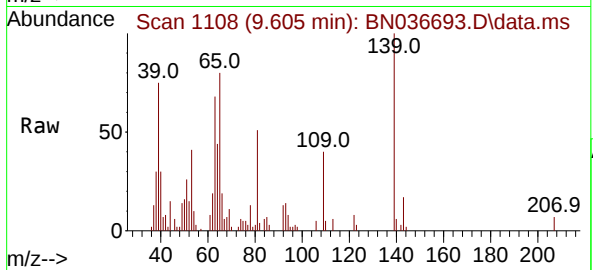




#25
2-Nitrophenol
Concen: 4.463 ng/ul
RT: 9.605 min Scan# 1110
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

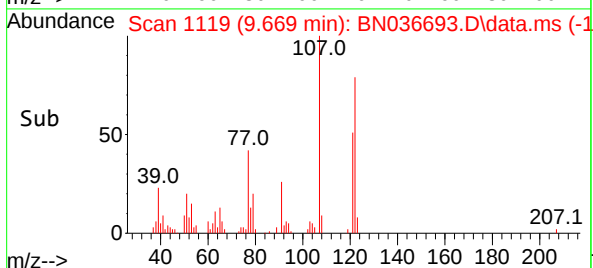
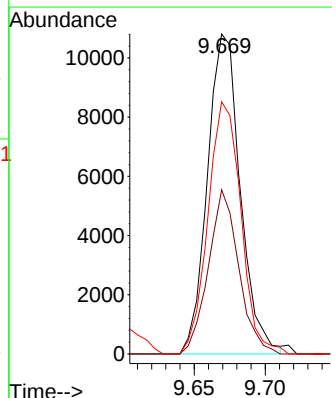
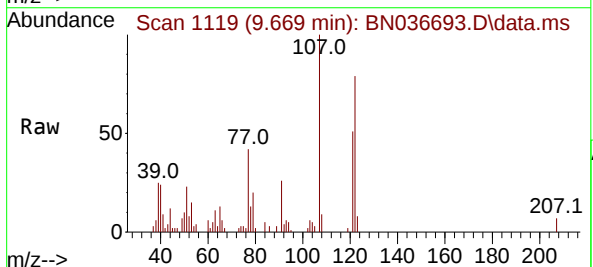
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

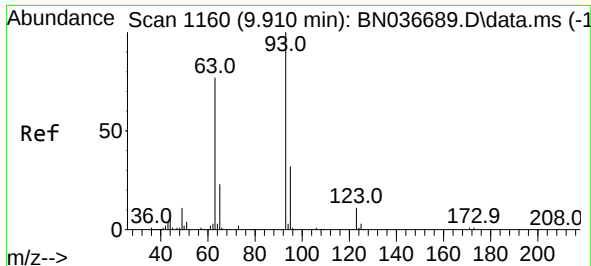
Tgt Ion:	139	Resp:	16145
Ion Ratio	Lower	Upper	
139	100		
65	79.7	54.7	82.1
109	40.4	28.4	42.6



#26
2,4-Dimethylphenol
Concen: 2.278 ng/ul
RT: 9.669 min Scan# 1119
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:	107	Resp:	17417
Ion Ratio	Lower	Upper	
107	100		
121	51.3	36.2	54.2
122	78.8	61.0	91.4





#27

Bis(2-Chloroethoxy)methane

Concen: 4.557 ng/ul

RT: 9.905 min Scan# 1160

Delta R.T. -0.006 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

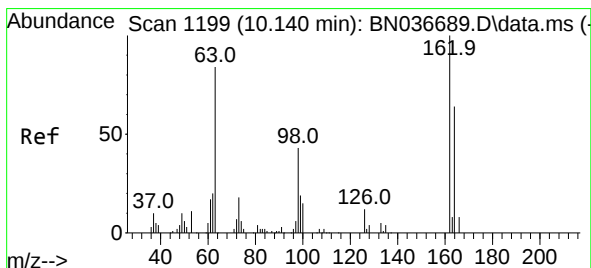
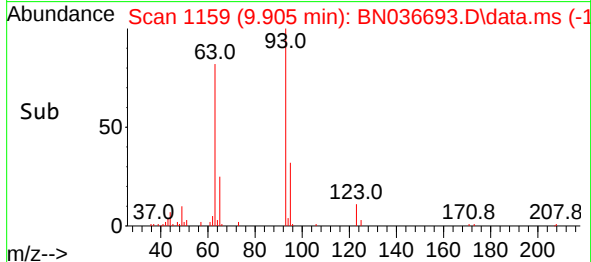
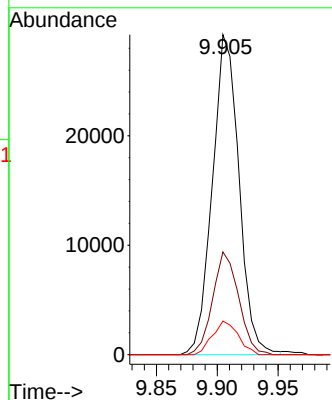
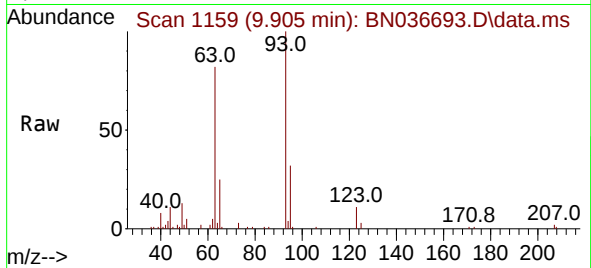
Tgt Ion: 93 Resp: 44493

Ion Ratio Lower Upper

93 100

95 32.1 24.8 37.2

123 10.5 8.3 12.5



#29

2,4-Dichlorophenol

Concen: 4.474 ng/ul

RT: 10.134 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

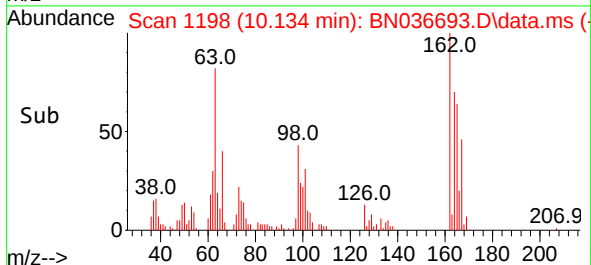
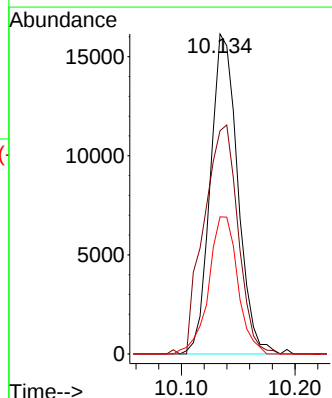
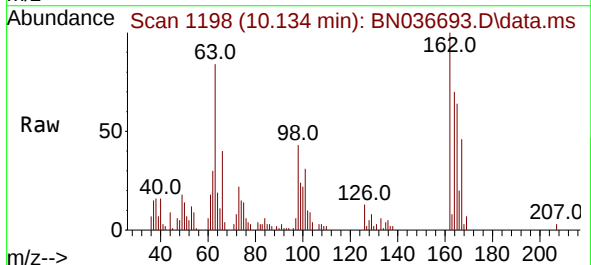
Tgt Ion:162 Resp: 27034

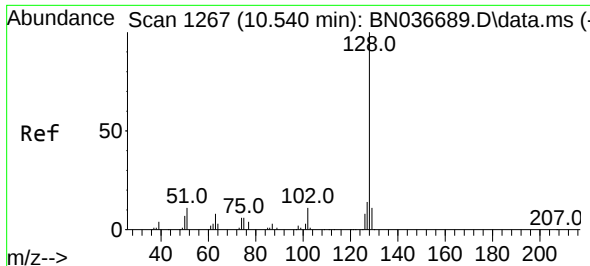
Ion Ratio Lower Upper

162 100

164 69.8 51.1 76.7

98 42.8 35.0 52.6

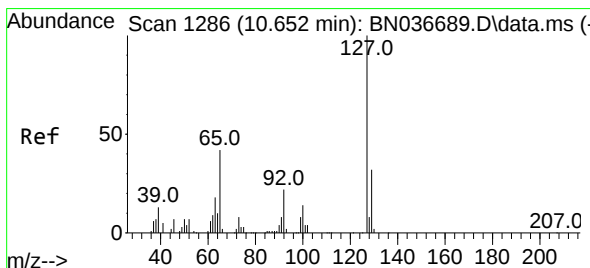
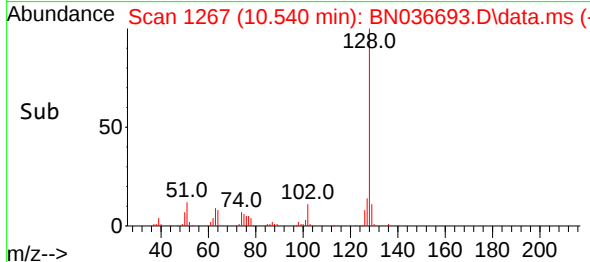
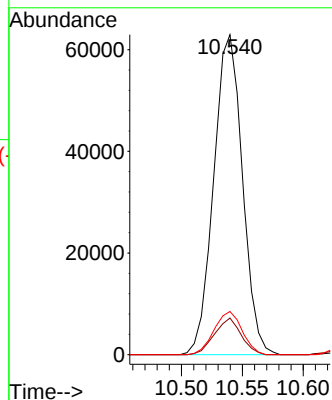
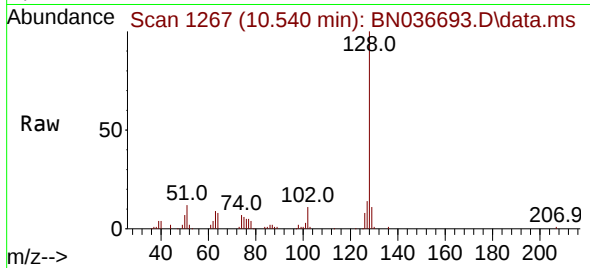




#30
Naphthalene
Concen: 4.805 ng/ul
RT: 10.540 min Scan# 1267
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

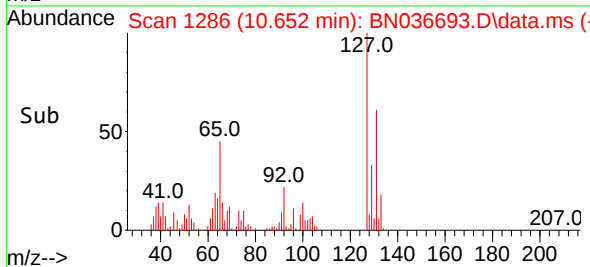
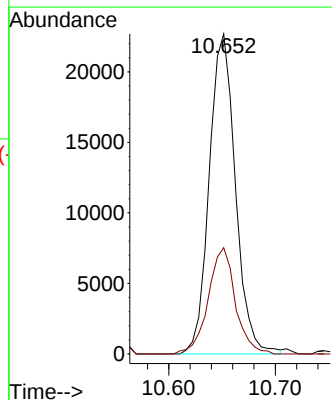
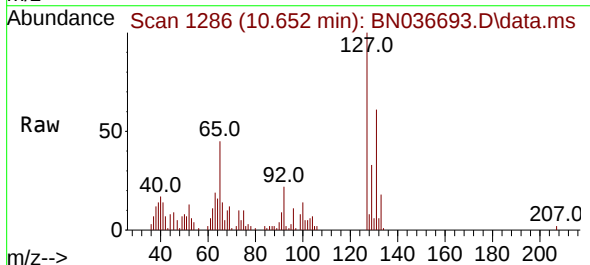
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

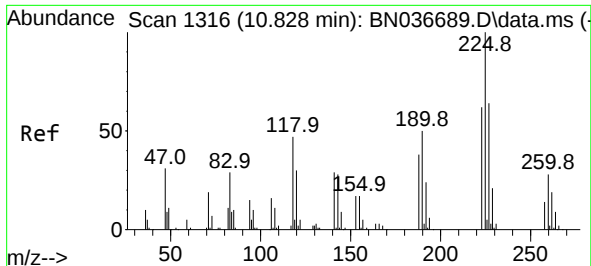
Tgt Ion:128 Resp: 103341
Ion Ratio Lower Upper
128 100
129 11.5 8.7 13.1
127 13.5 11.4 17.0



#32
4-Chloroaniline
Concen: 4.398 ng/ul
RT: 10.652 min Scan# 1286
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

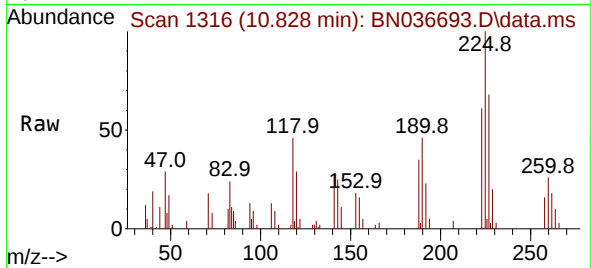
Tgt Ion:127 Resp: 38720
Ion Ratio Lower Upper
127 100
129 33.2 25.0 37.6



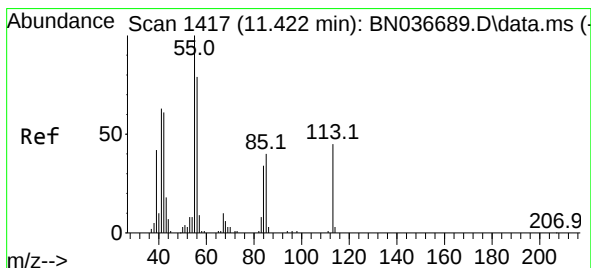
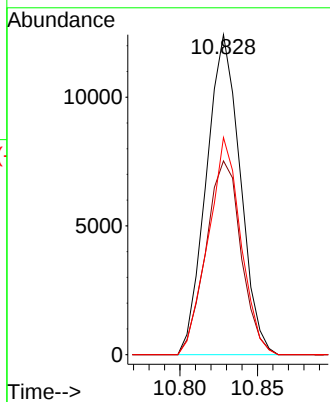
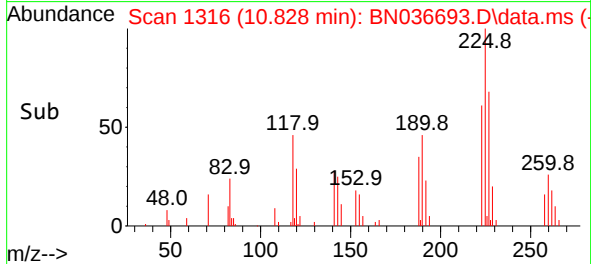


#33
Hexachlorobutadiene
Concen: 4.744 ng/ul
RT: 10.828 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

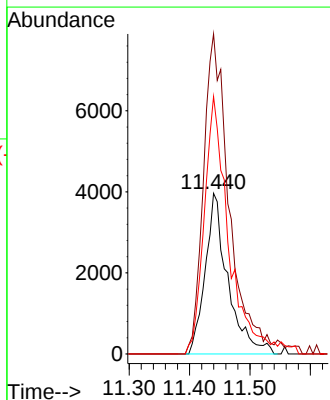
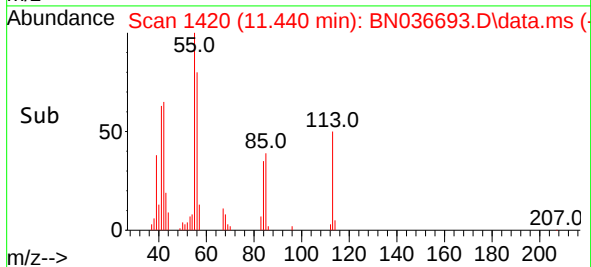
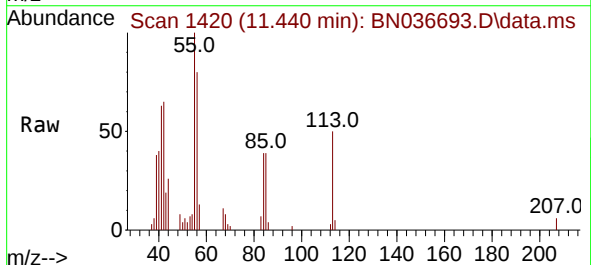


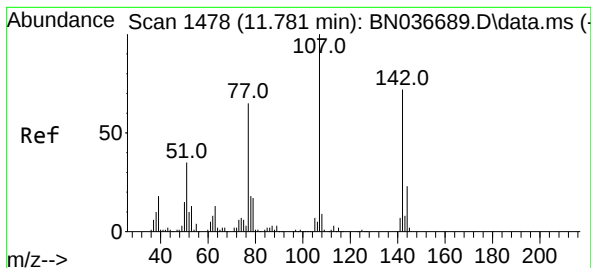
Tgt Ion:225 Resp: 18881
Ion Ratio Lower Upper
225 100
223 60.6 48.7 73.1
227 70.4 49.5 74.3



#34
Caprolactam
Concen: 4.118 ng/ul m
RT: 11.440 min Scan# 1420
Delta R.T. 0.018 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:113 Resp: 10306
Ion Ratio Lower Upper
113 100
55 199.3 182.8 274.2
56 160.3 137.3 205.9





#35

4-Chloro-3-methylphenol

Concen: 3.974 ng/ul

RT: 11.781 min Scan# 1478

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

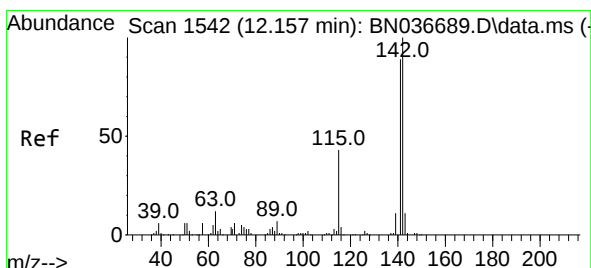
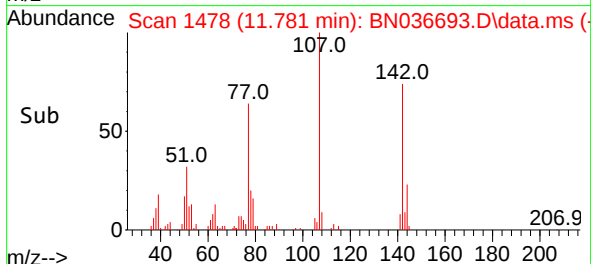
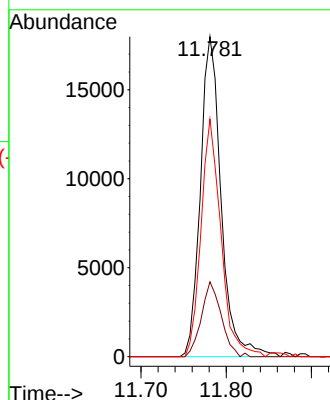
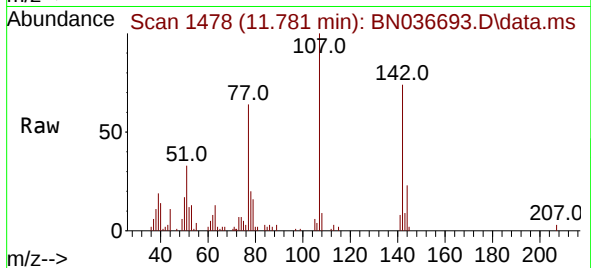
Tgt Ion:107 Resp: 30452

Ion Ratio Lower Upper

107 100

144 23.4 17.7 26.5

142 74.2 55.8 83.6



#36

2-Methylnaphthalene

Concen: 4.516 ng/ul

RT: 12.157 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN036693.D

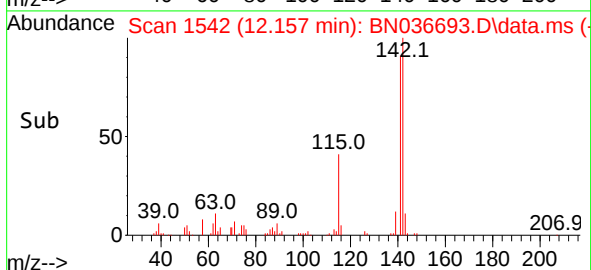
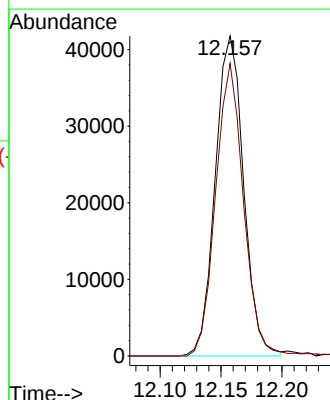
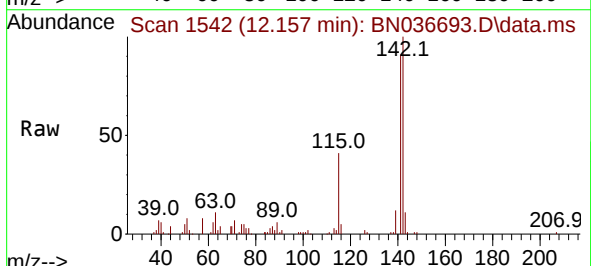
Acq: 20 Mar 2025 12:49

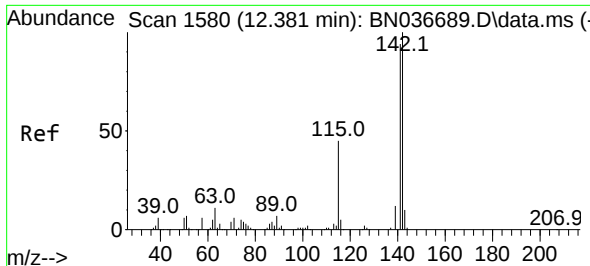
Tgt Ion:142 Resp: 67606

Ion Ratio Lower Upper

142 100

141 91.4 71.6 107.4

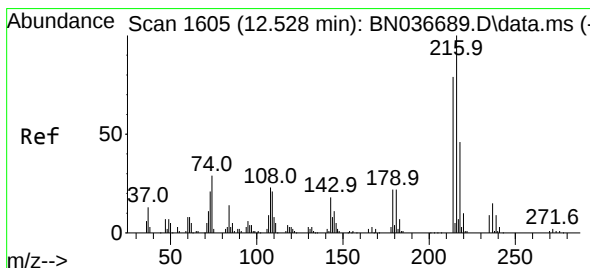
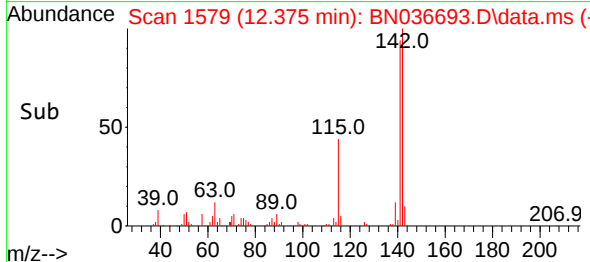
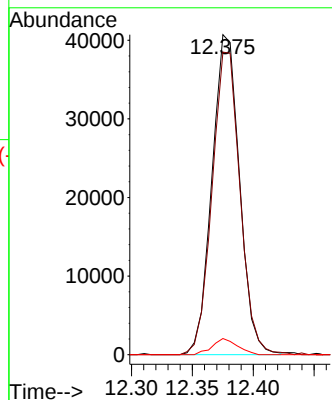
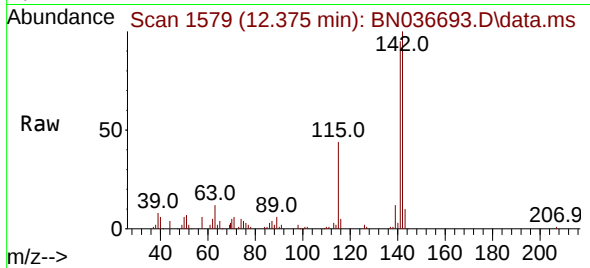




#37
1-Methylnaphthalene
Concen: 4.250 ng/ul
RT: 12.375 min Scan# 11
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

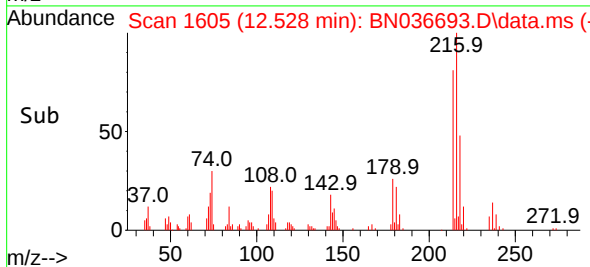
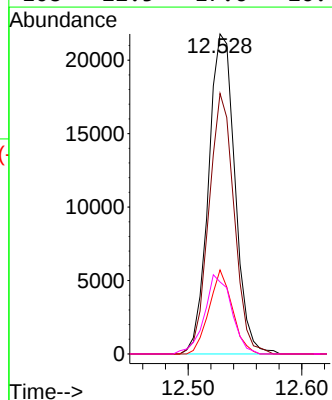
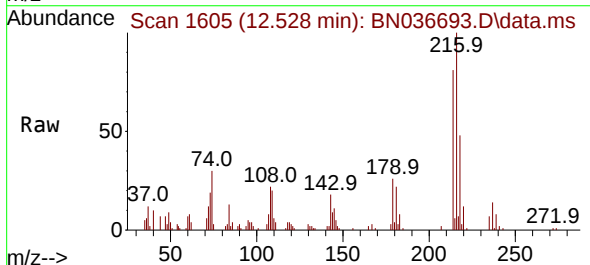
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

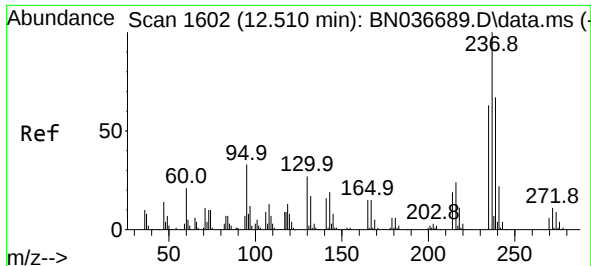
Tgt Ion:142 Resp: 64161
Ion Ratio Lower Upper
142 100
141 94.6 74.3 111.5
116 5.0 3.5 5.3



#39
1,2,4,5-Tetrachlorobenzene
Concen: 4.820 ng/ul
RT: 12.528 min Scan# 1605
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:216 Resp: 35187
Ion Ratio Lower Upper
216 100
214 81.4 65.9 98.9
179 26.2 18.2 27.2
108 22.5 17.6 26.4

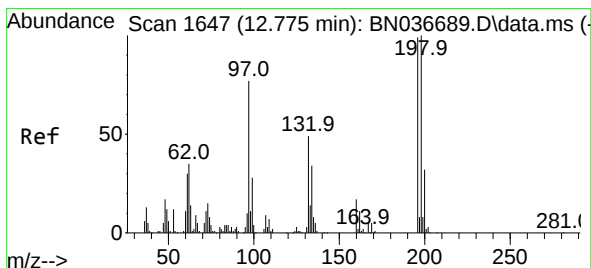
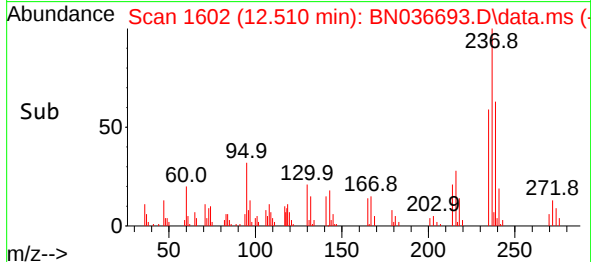
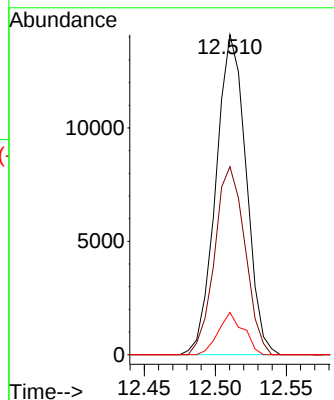
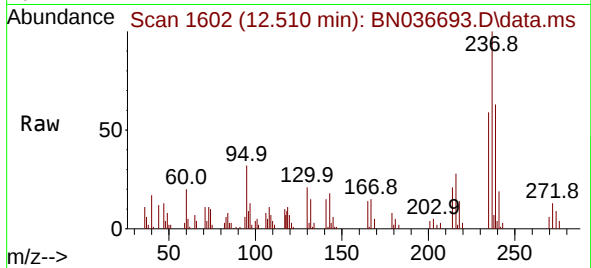




#40
Hexachlorocyclopentadiene
Concen: 4.848 ng/ul
RT: 12.510 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

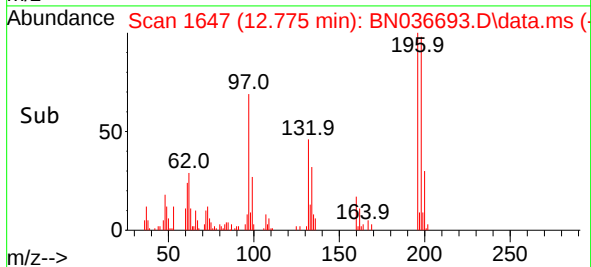
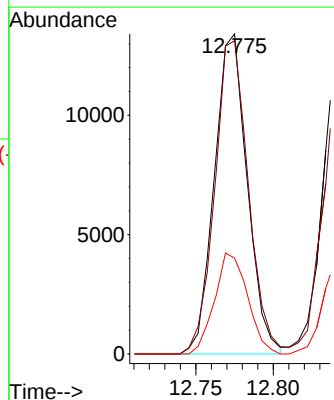
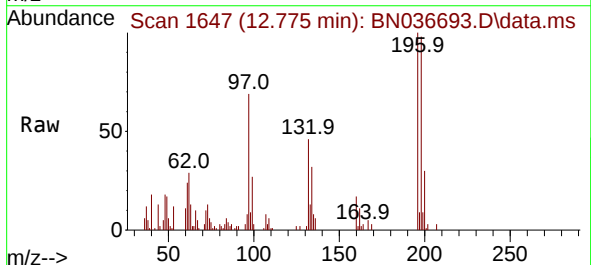
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

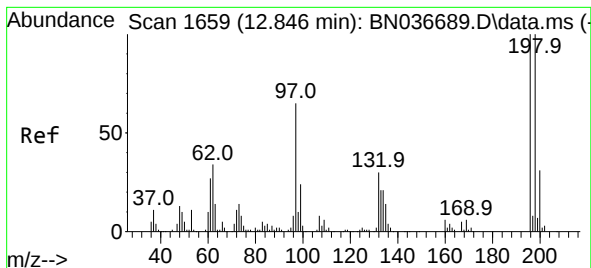
Tgt Ion:237 Resp: 20888
Ion Ratio Lower Upper
237 100
235 58.7 50.3 75.5
272 13.2 8.7 13.1#



#41
2,4,6-Trichlorophenol
Concen: 4.120 ng/ul
RT: 12.775 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:196 Resp: 19785
Ion Ratio Lower Upper
196 100
198 97.9 73.9 110.9
200 30.0 26.1 39.1





#42

2,4,5-Trichlorophenol

Concen: 4.183 ng/ul

RT: 12.846 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

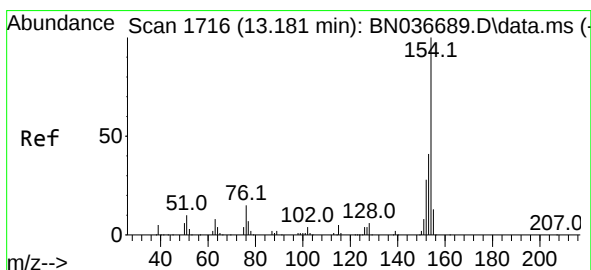
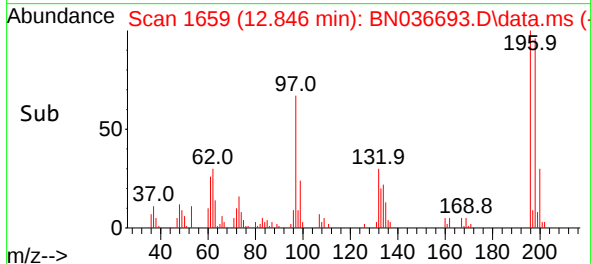
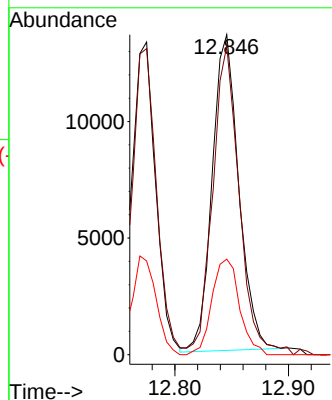
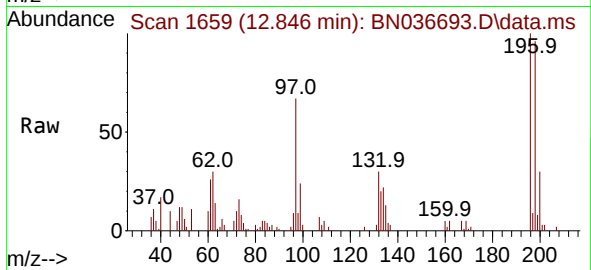
Tgt Ion:196 Resp: 22008

Ion Ratio Lower Upper

196 100

198 96.5 75.6 113.4

200 29.8 25.9 38.9



#43

1,1'-Biphenyl

Concen: 4.914 ng/ul

RT: 13.175 min Scan# 1715

Delta R.T. -0.006 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

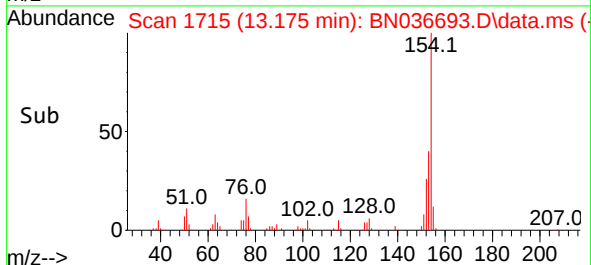
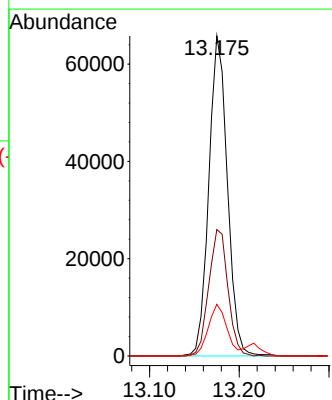
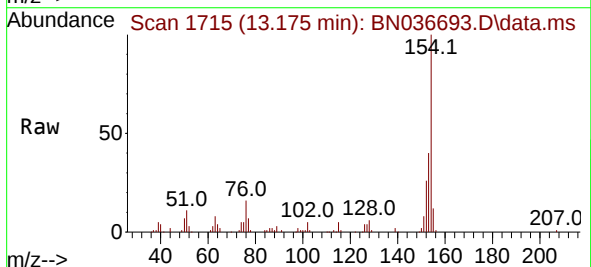
Tgt Ion:154 Resp: 94474

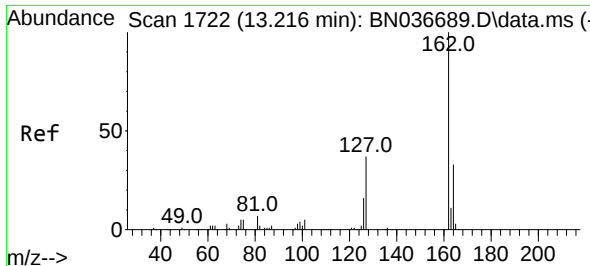
Ion Ratio Lower Upper

154 100

153 39.5 32.7 49.1

76 16.2 12.7 19.1

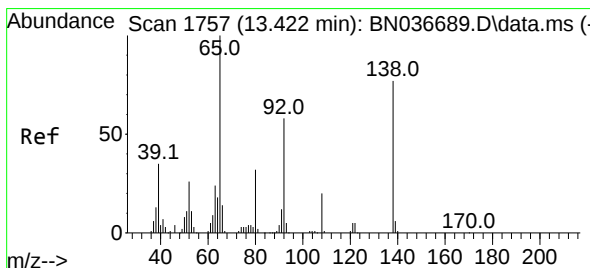
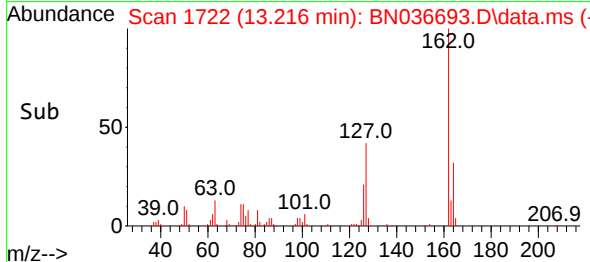
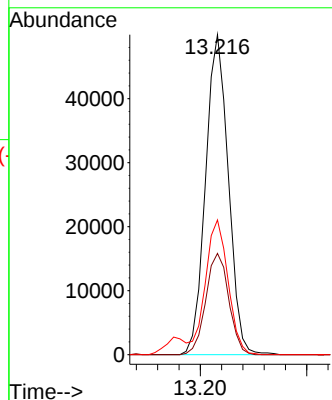
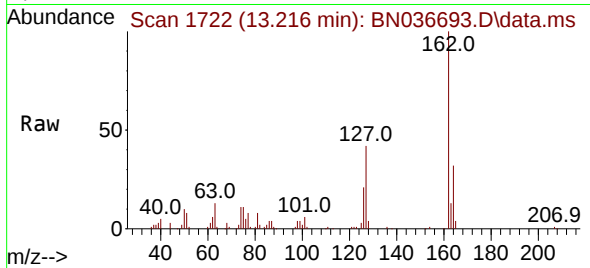




#44
2-Chloronaphthalene
Concen: 4.977 ng/ul
RT: 13.216 min Scan# 1722
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

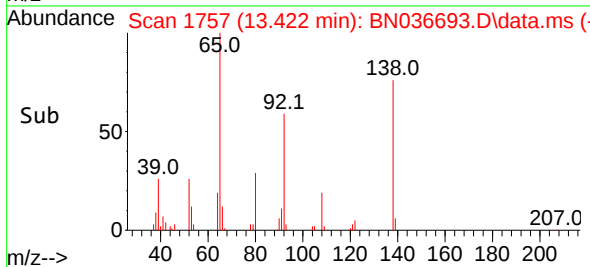
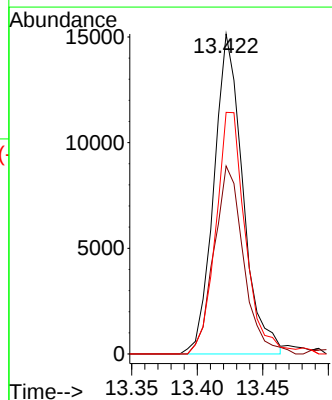
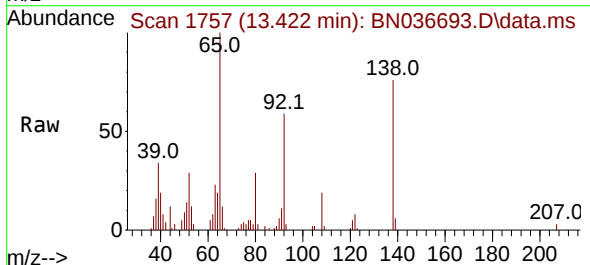
Instrument : BNA_N
ClientSampleId : MDL-WATER-QT1-2025-01

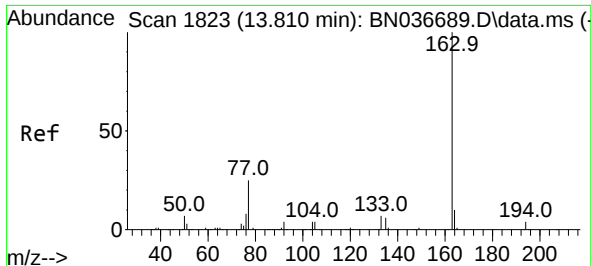
Tgt Ion:	162	Resp:	74203
Ion	Ratio	Lower	Upper
162	100		
164	31.6	26.3	39.5
127	42.1	34.2	51.4



#45
2-Nitroaniline
Concen: 3.889 ng/ul
RT: 13.422 min Scan# 1757
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:	65	Resp:	23274
Ion	Ratio	Lower	Upper
65	100		
92	58.8	48.6	72.8
138	75.5	62.8	94.2

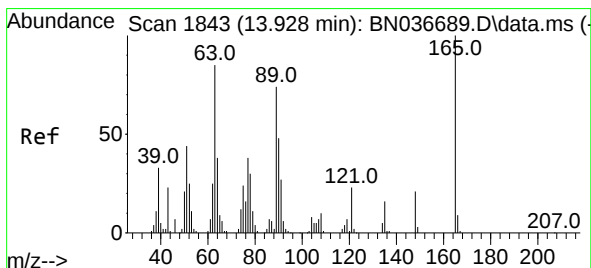
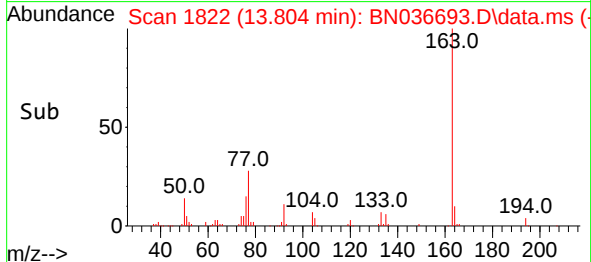
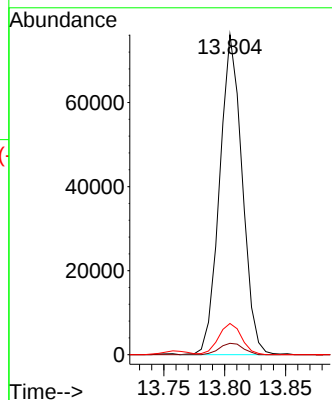
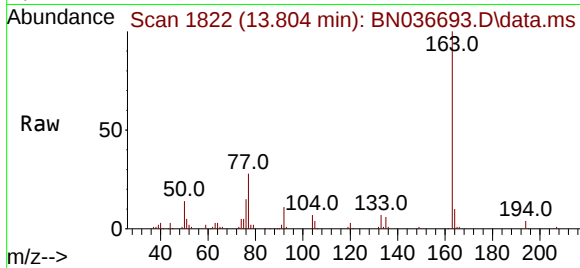




#47
Dimethylphthalate
Concen: 4.973 ng/ul
RT: 13.804 min Scan# 1822
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

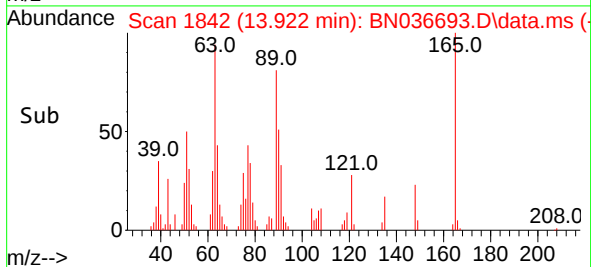
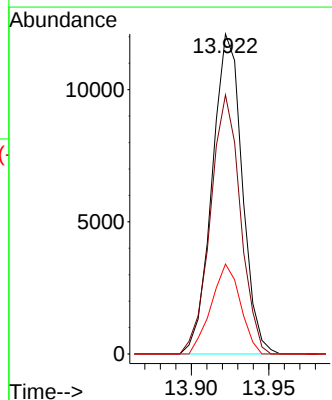
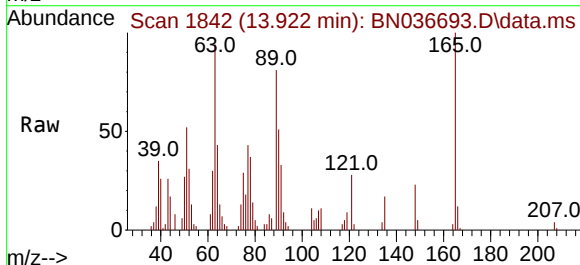
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

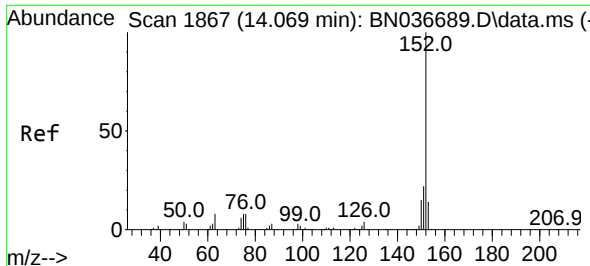
Tgt Ion:163	Resp:	98190
Ion Ratio	Lower	Upper
163	100	
194	3.6	3.0 4.4
164	9.7	7.8 11.6



#48
2,6-Dinitrotoluene
Concen: 4.229 ng/ul
RT: 13.922 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:165	Resp:	16302
Ion Ratio	Lower	Upper
165	100	
89	80.9	60.4 90.6
121	28.1	20.9 31.3

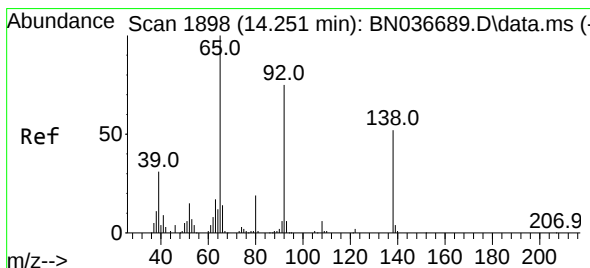
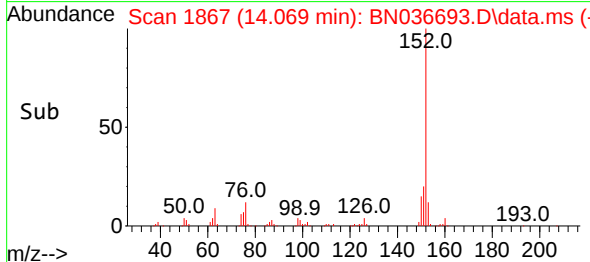
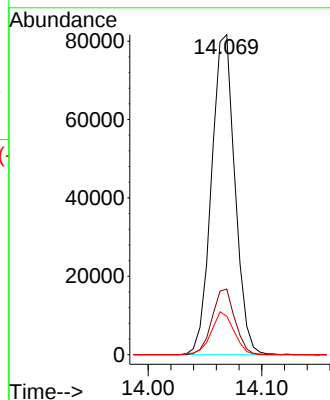
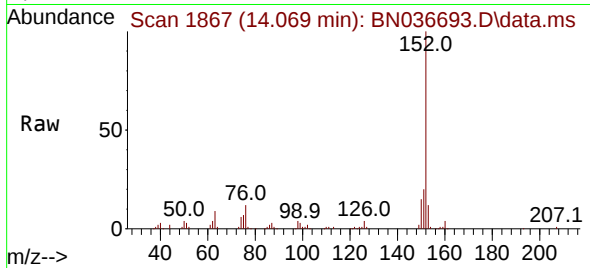




#50
Acenaphthylene
Concen: 4.946 ng/ul
RT: 14.069 min Scan# 1867
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

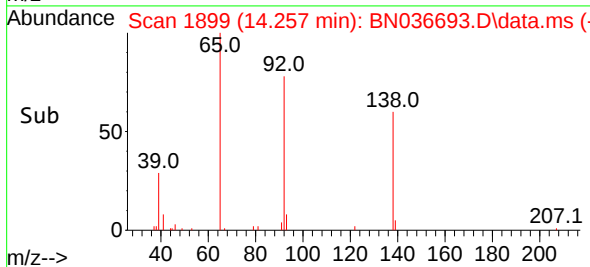
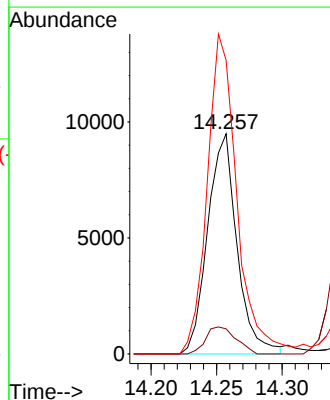
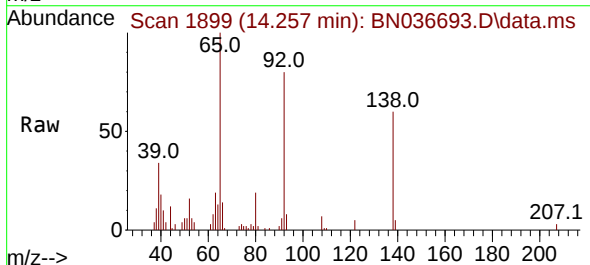
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

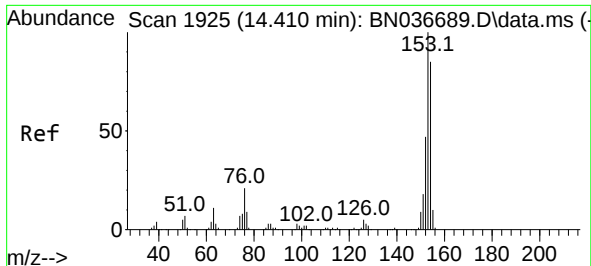
Tgt Ion:152	Resp:	117075
Ion Ratio	Lower	Upper
152	100	
151	20.5	17.2 25.8
153	12.1	11.0 16.4



#51
3-Nitroaniline
Concen: 3.552 ng/ul
RT: 14.257 min Scan# 1899
Delta R.T. 0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:138	Resp:	14787
Ion Ratio	Lower	Upper
138	100	
108	11.4	10.2 15.4
92	133.3	107.4 161.0

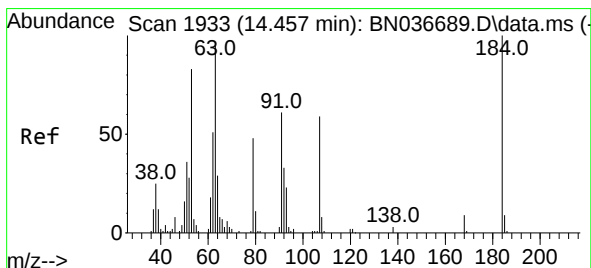
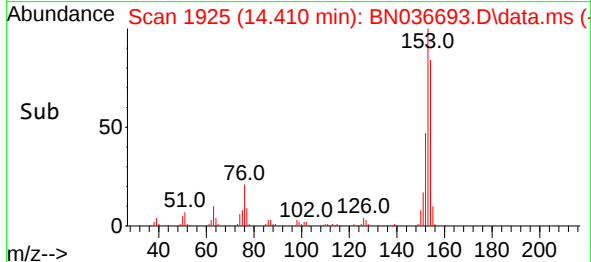
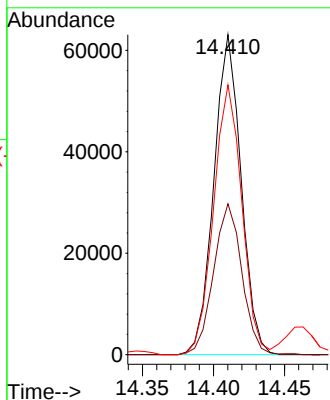
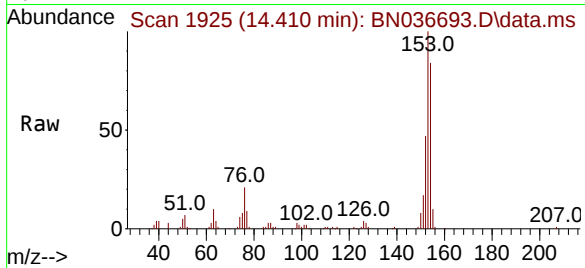




#52
Acenaphthene
Concen: 4.934 ng/ul
RT: 14.410 min Scan# 1925
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

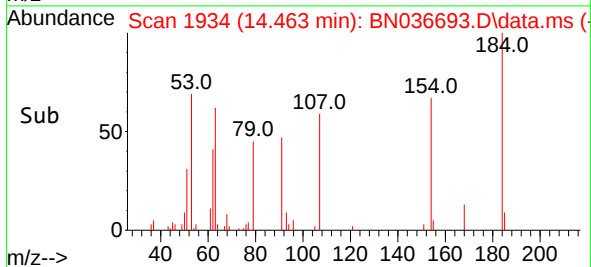
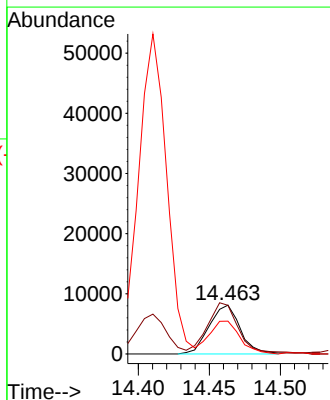
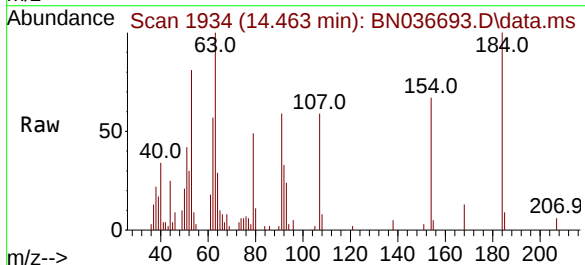
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

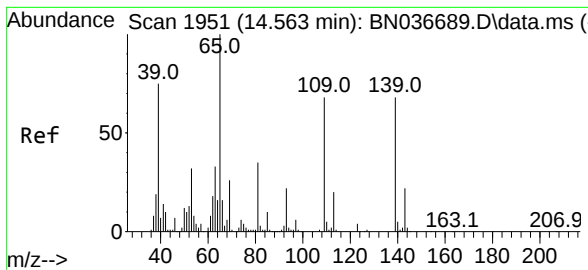
Tgt Ion:153	Resp:	84195
Ion Ratio	Lower	Upper
153	100	
152	47.2	40.8 61.2
154	84.3	71.6 107.4



#53
2,4-Dinitrophenol
Concen: 4.640 ng/ul
RT: 14.463 min Scan# 1934
Delta R.T. 0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:184	Resp:	12297
Ion Ratio	Lower	Upper
184	100	
63	99.6	74.1 111.1
154	67.1	53.4 80.2

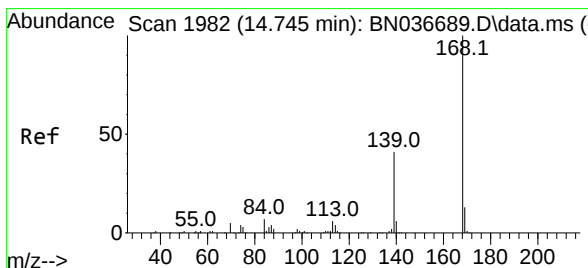
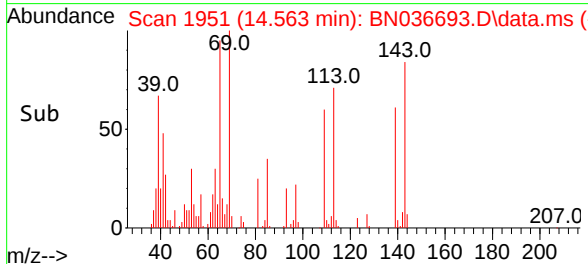
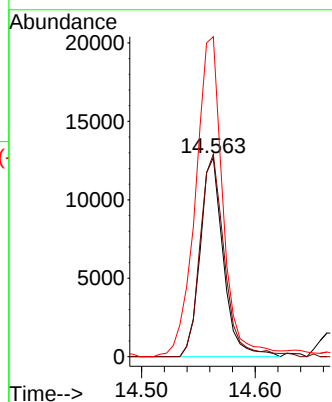
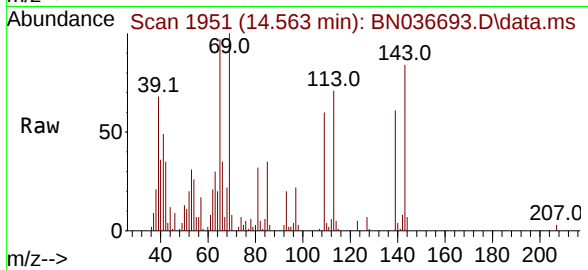




#55
4-Nitrophenol
Concen: 4.705 ng/ul
RT: 14.563 min Scan# 1951
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

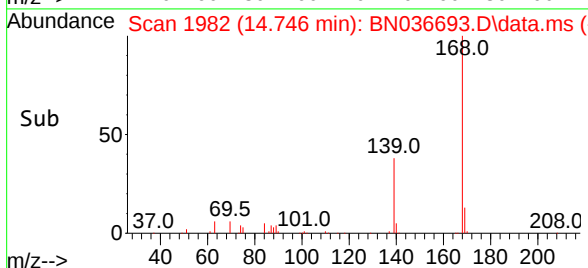
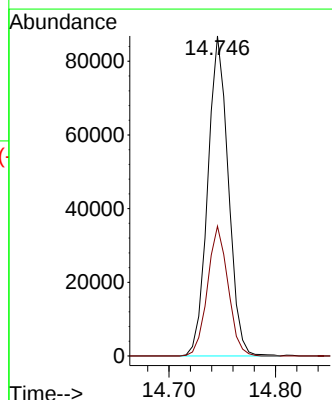
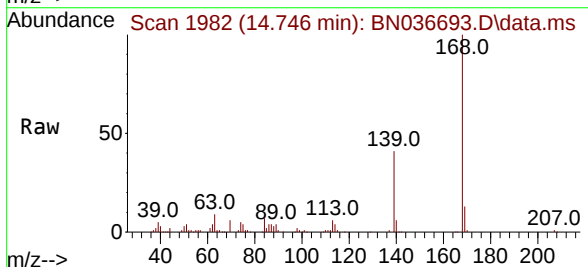
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

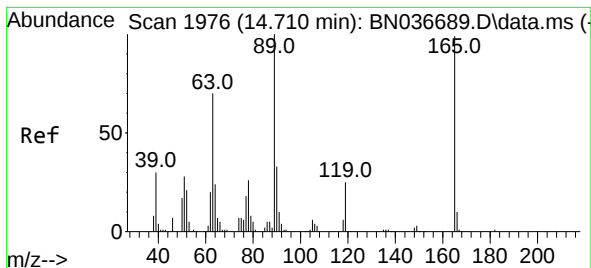
Tgt Ion:109 Resp: 17962
Ion Ratio Lower Upper
109 100
139 101.8 85.9 128.9
65 160.8 118.6 178.0



#56
Dibenzofuran
Concen: 4.948 ng/ul
RT: 14.746 min Scan# 1982
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:168 Resp: 116354
Ion Ratio Lower Upper
168 100
139 40.5 33.0 49.6





#57

2,4-Dinitrotoluene

Concen: 4.382 ng/ul

RT: 14.710 min Scan# 1976

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

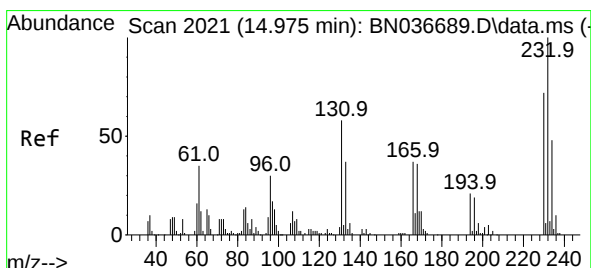
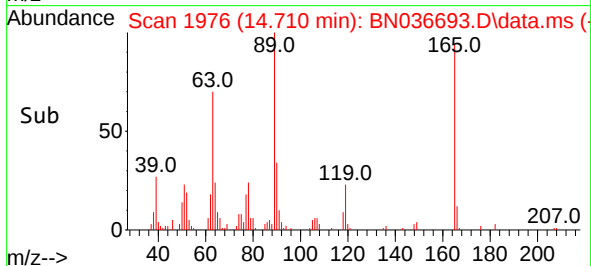
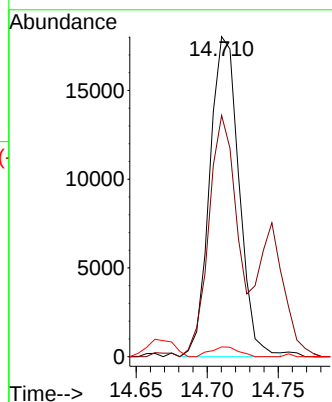
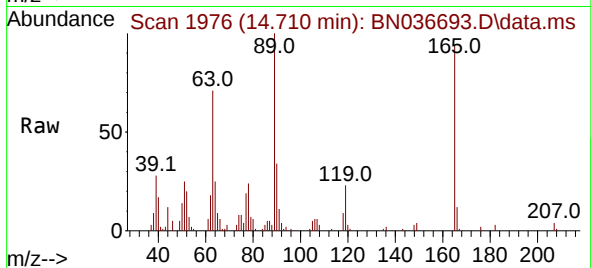
Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

Tgt Ion:	165	Resp:	25866
Ion Ratio	Lower	Upper	
165	100		
63	75.4	47.5	71.3#
182	3.0	2.3	3.5



#58

2,3,4,6-Tetrachlorophenol

Concen: 4.440 ng/ul

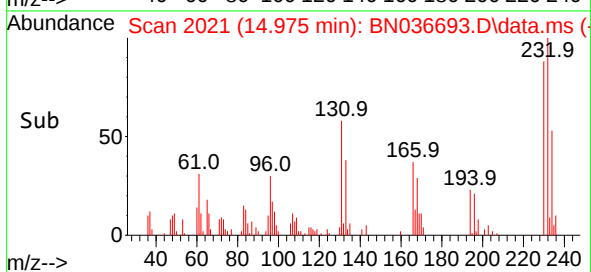
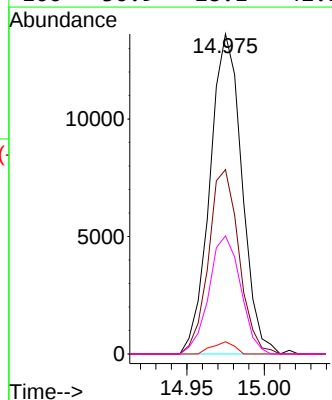
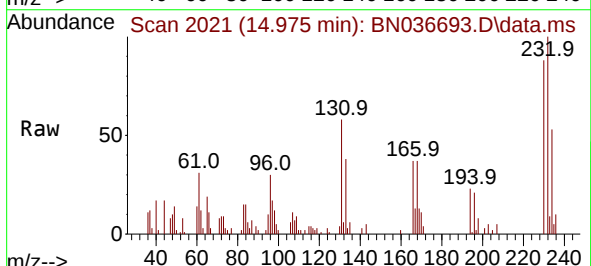
RT: 14.975 min Scan# 2021

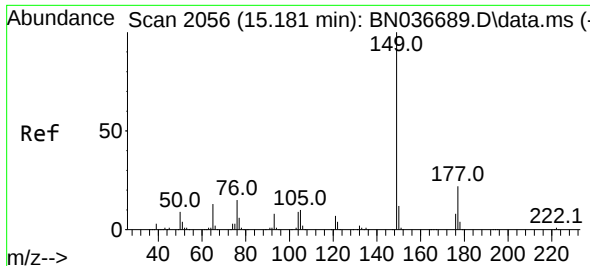
Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Tgt Ion:	232	Resp:	19531
Ion Ratio	Lower	Upper	
232	100		
131	57.6	43.4	65.2
130	3.8	2.5	3.7#
166	36.9	28.1	42.1

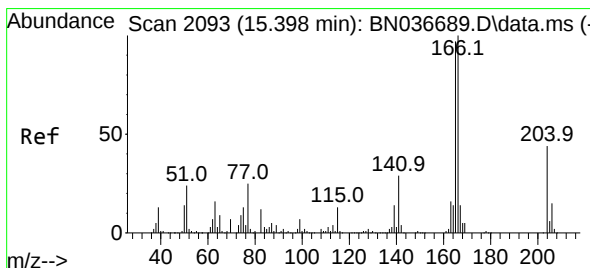
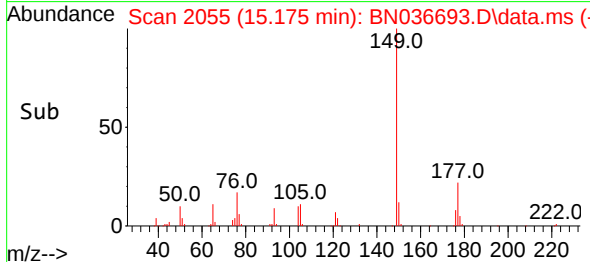
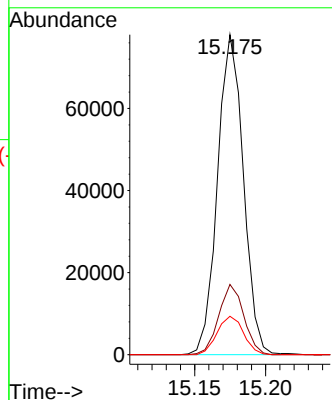
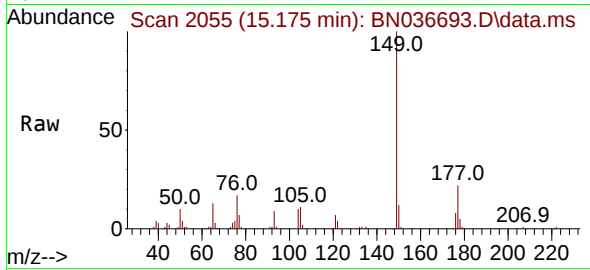




#59
Diethylphthalate
Concen: 4.810 ng/ul
RT: 15.175 min Scan# 2055
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

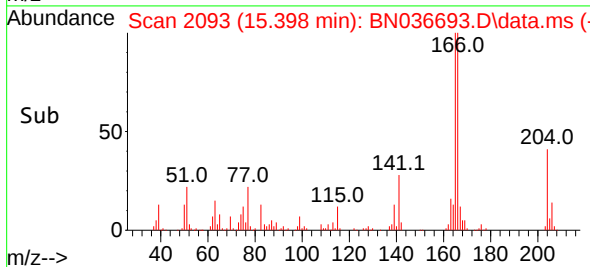
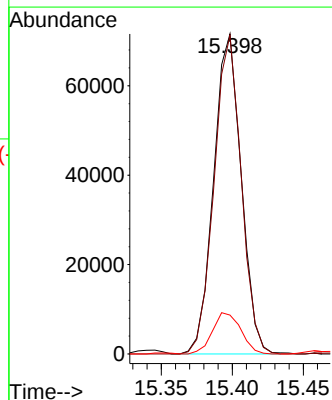
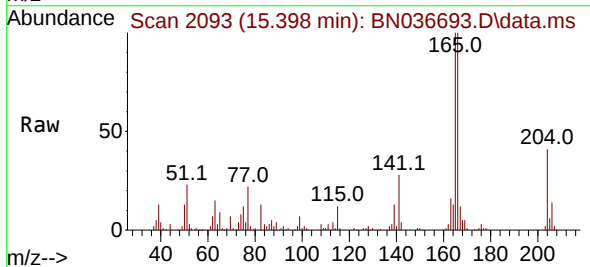
Instrument : BNA_N
ClientSampleId : MDL-WATER-QT1-2025-01

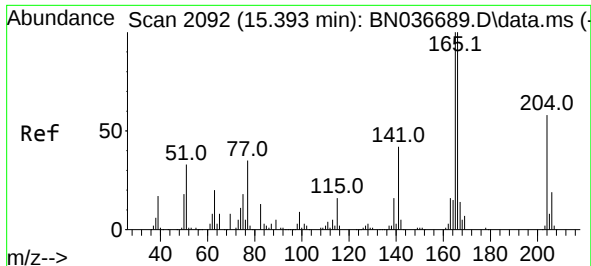
Tgt Ion:149 Resp: 98639
Ion Ratio Lower Upper
149 100
177 22.0 16.7 25.1
150 12.0 9.5 14.3



#61
Fluorene
Concen: 4.969 ng/ul
RT: 15.398 min Scan# 2093
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:166 Resp: 96588
Ion Ratio Lower Upper
166 100
165 99.6 80.2 120.2
167 12.2 10.6 16.0

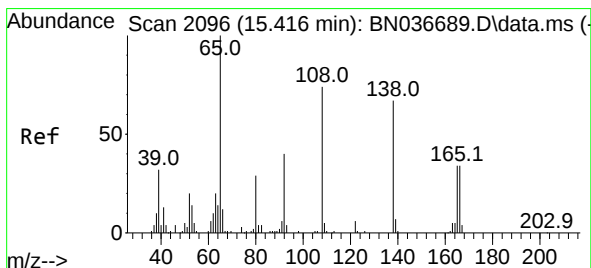
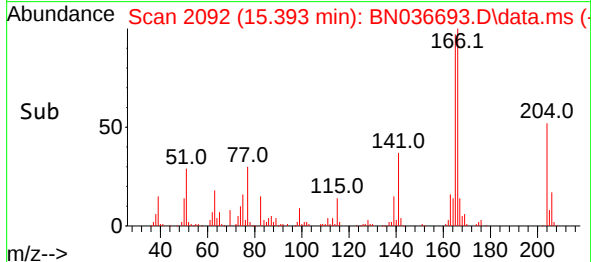
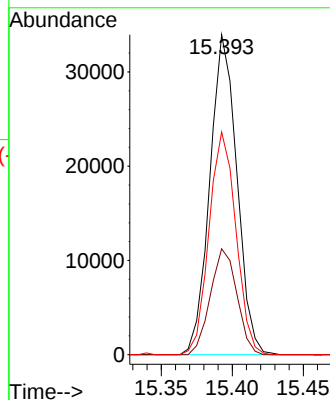
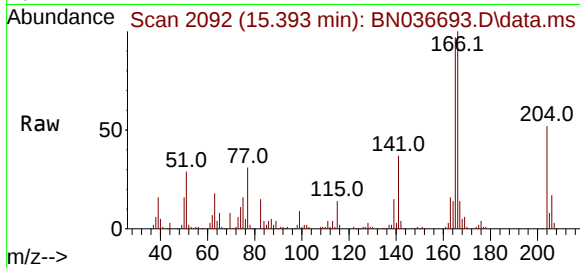




#62
4-Chlorophenyl-phenylether
Concen: 4.861 ng/ul
RT: 15.393 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

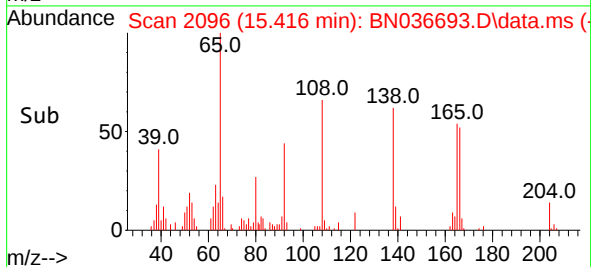
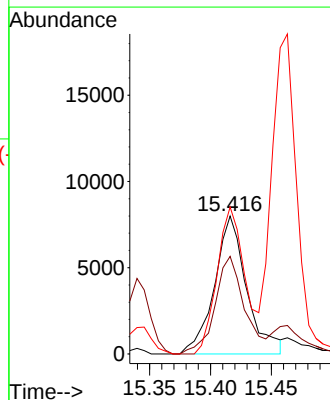
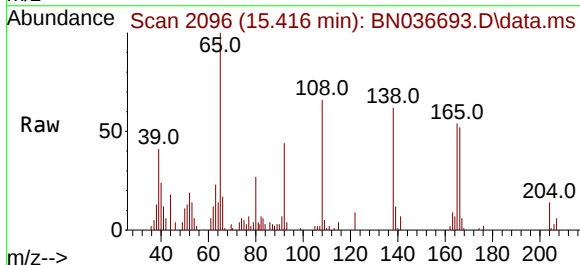
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

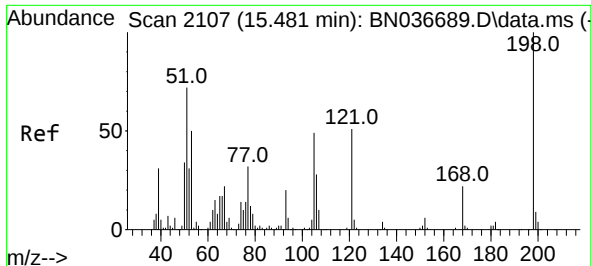
Tgt Ion:	204	Resp:	45064
Ion Ratio	Lower	Upper	
204	100		
206	33.1	26.6	39.8
141	69.6	53.9	80.9



#63
4-Nitroaniline
Concen: 3.589 ng/ul
RT: 15.416 min Scan# 2096
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:	138	Resp:	14702
Ion Ratio	Lower	Upper	
138	100		
92	70.7	50.2	75.2
108	106.6	78.4	117.6

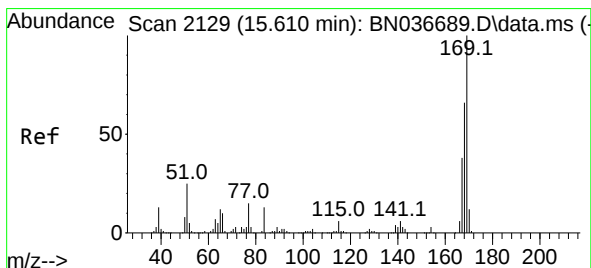
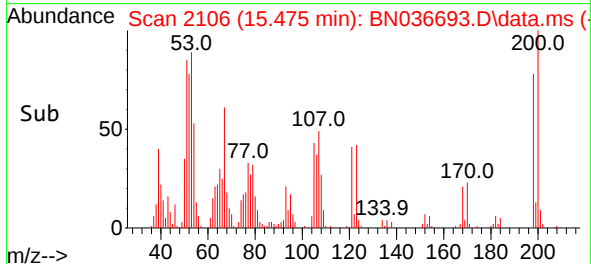
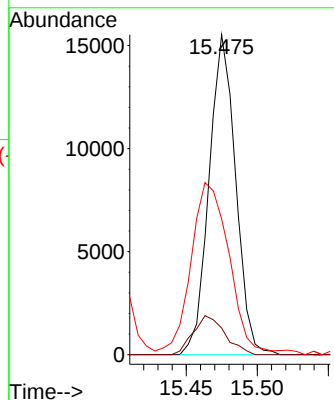
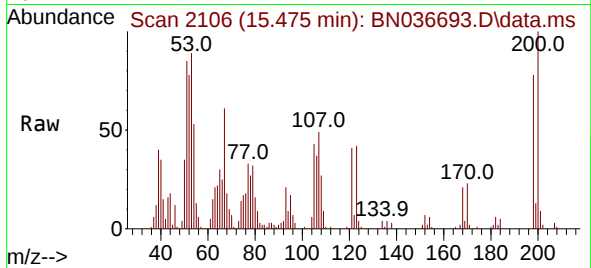




#66
4,6-Dinitro-2-methylphenol
Concen: 5.084 ng/ul
RT: 15.475 min Scan# 2106
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

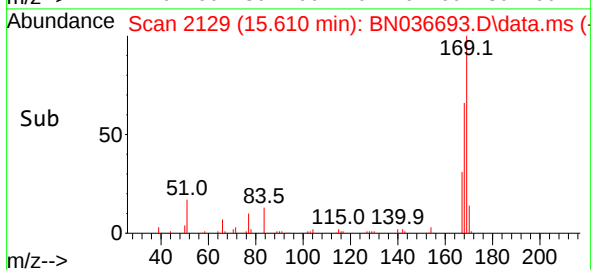
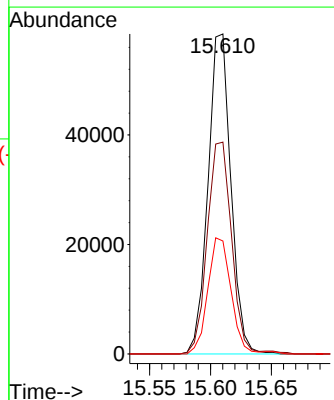
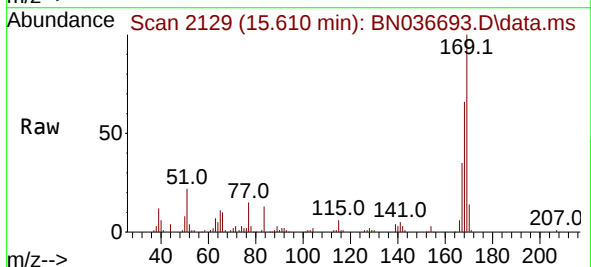
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

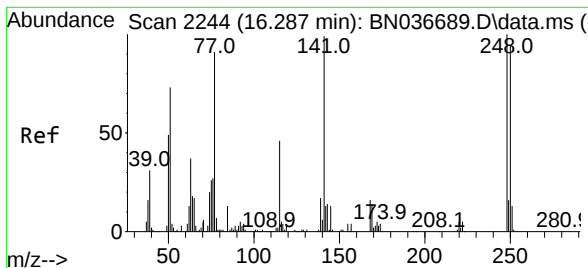
Tgt Ion:198 Resp: 20212
Ion Ratio Lower Upper
198 100
182 8.3 3.5 5.3#
77 42.4 27.2 40.8#



#67
N-Nitrosodiphenylamine
Concen: 4.637 ng/ul
RT: 15.610 min Scan# 2129
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:169 Resp: 76559
Ion Ratio Lower Upper
169 100
168 66.2 53.2 79.8
167 35.3 28.2 42.2

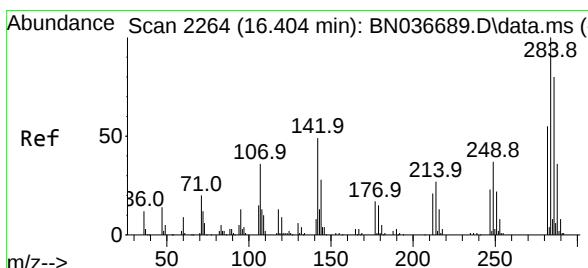
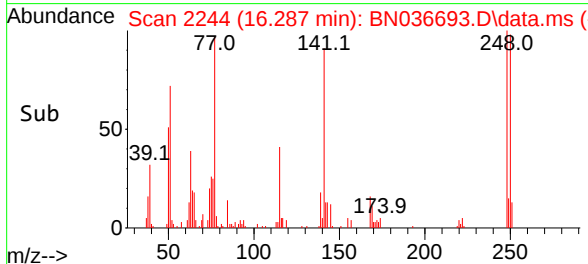
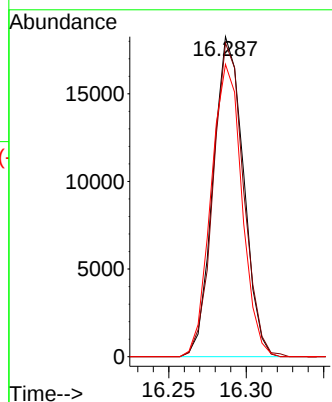
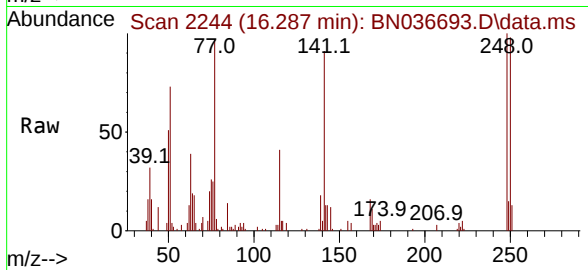




#68
4-Bromophenyl-phenylether
Concen: 4.746 ng/ul
RT: 16.287 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

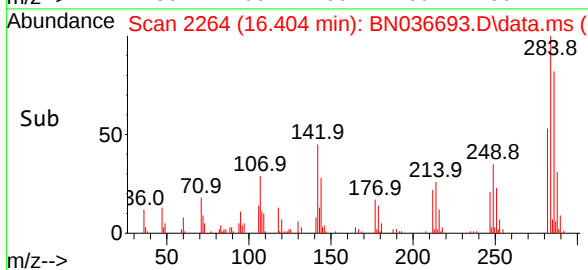
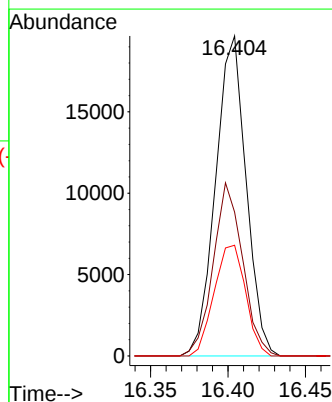
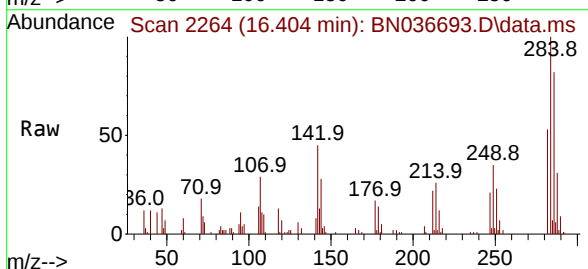
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

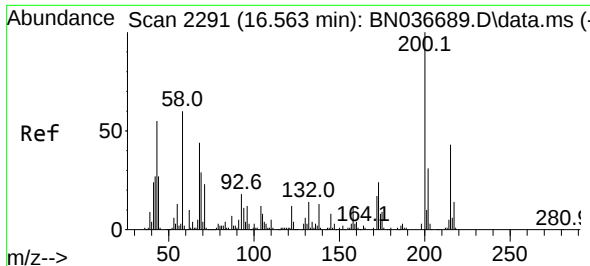
Tgt Ion:248	Resp:	24871
Ion	Ratio	Lower Upper
248	100	
250	98.0	76.1 114.1
141	91.4	71.8 107.8



#69
Hexachlorobenzene
Concen: 4.613 ng/ul
RT: 16.404 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:284	Resp:	26933
Ion	Ratio	Lower Upper
284	100	
142	45.0	37.4 56.2
249	37.9	27.4 41.2





#70

Atrazine

Concen: 5.025 ng/ul

RT: 16.563 min Scan# 2291

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

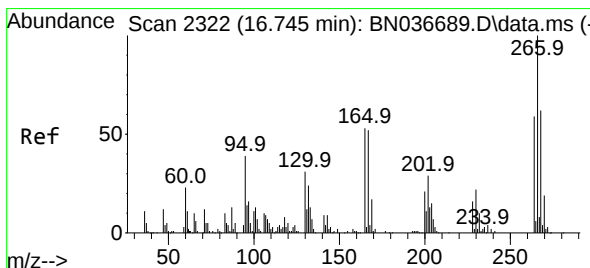
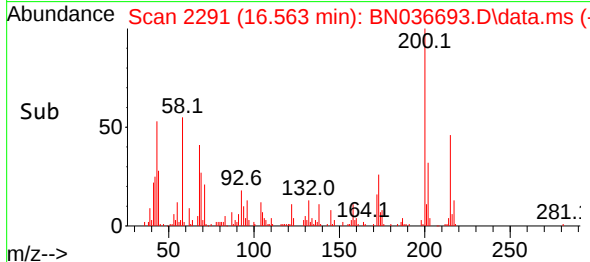
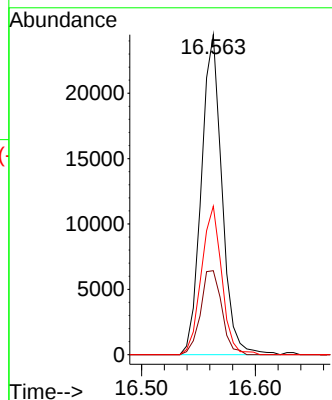
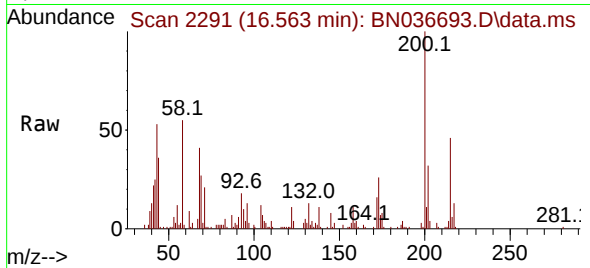
Tgt Ion:200 Resp: 30858

Ion Ratio Lower Upper

200 100

173 26.3 23.0 34.4

215 46.4 39.6 59.4



#71

Pentachlorophenol

Concen: 4.778 ng/ul

RT: 16.745 min Scan# 2322

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

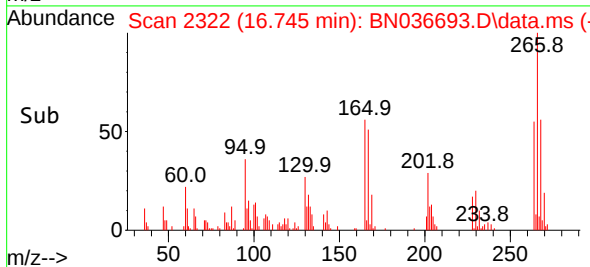
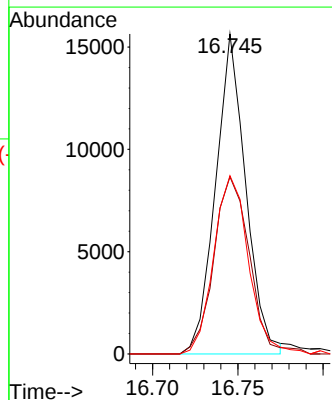
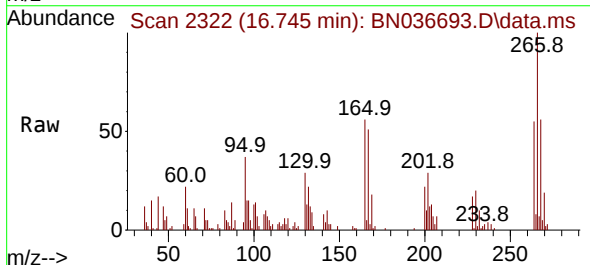
Tgt Ion:266 Resp: 19277

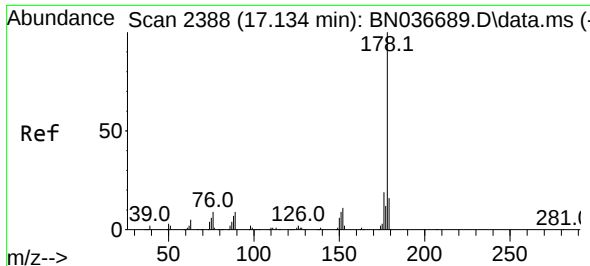
Ion Ratio Lower Upper

266 100

264 55.4 51.7 77.5

268 60.6 50.1 75.1

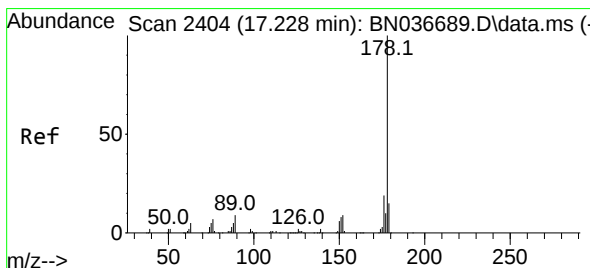
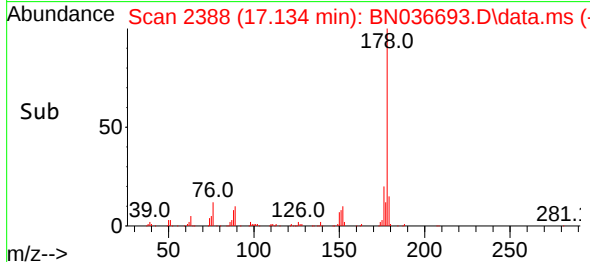
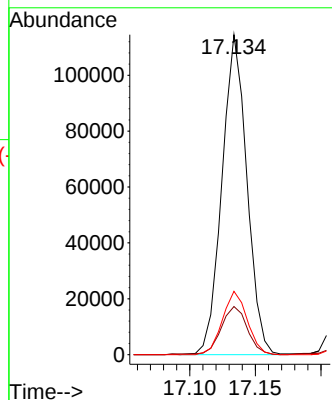
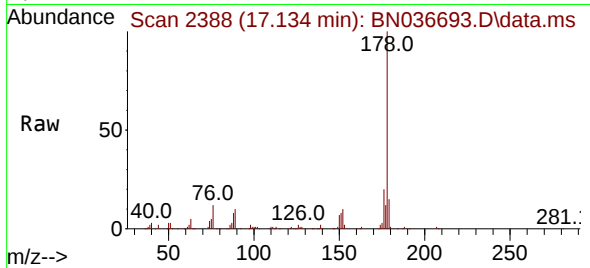




#72
Phenanthrene
Concen: 4.841 ng/ul
RT: 17.134 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

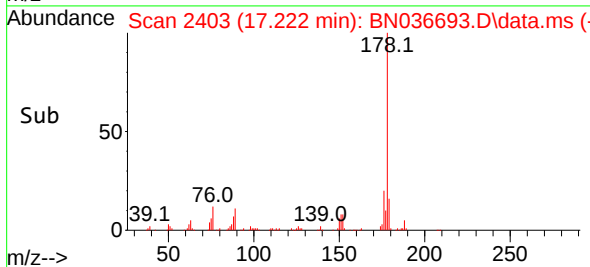
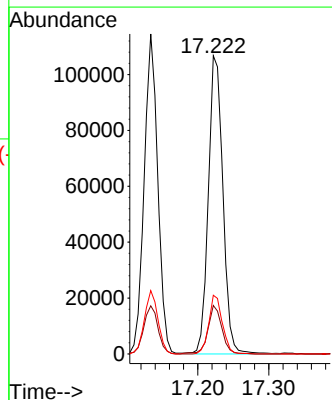
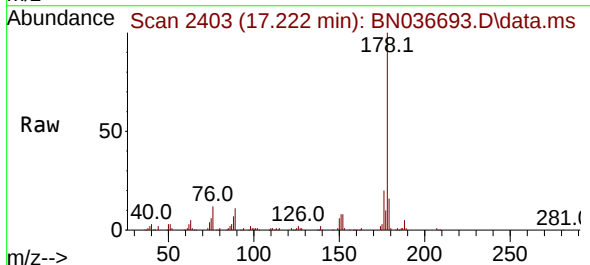
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

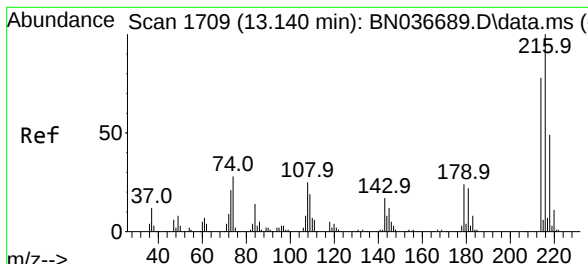
Tgt Ion:178 Resp: 151534
Ion Ratio Lower Upper
178 100
179 15.1 12.6 18.8
176 19.8 15.2 22.8



#74
Anthracene
Concen: 4.788 ng/ul
RT: 17.222 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:178 Resp: 152606
Ion Ratio Lower Upper
178 100
179 16.2 12.4 18.6
176 19.7 15.0 22.6

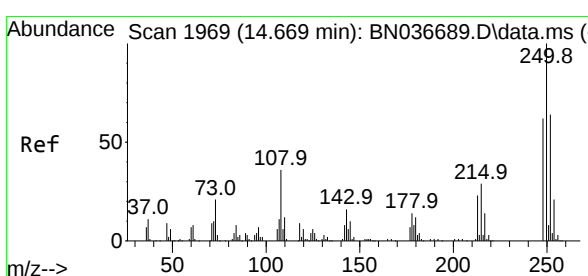
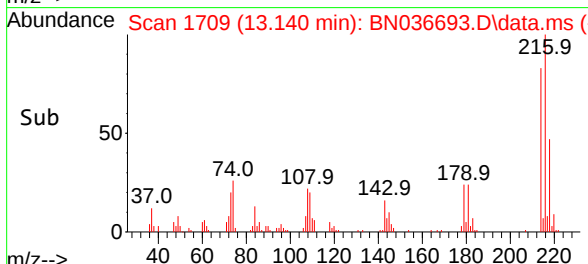
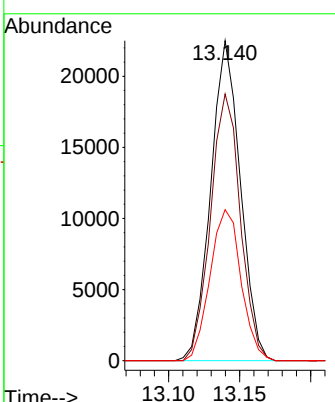
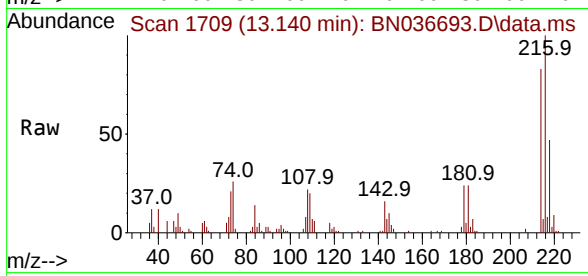




#75
 1,2,3,4-Tetrachlorobenzene
 Concen: 4.421 ng/uL
 RT: 13.140 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

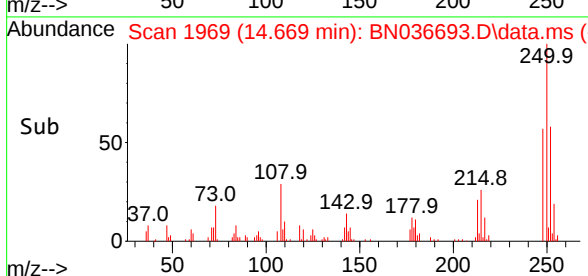
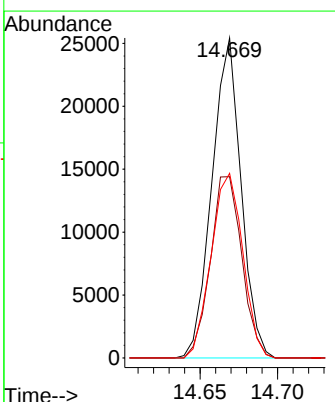
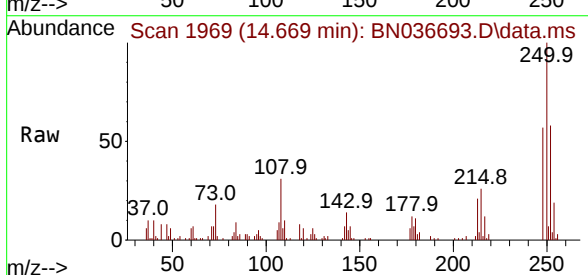
Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-QT1-2025-01

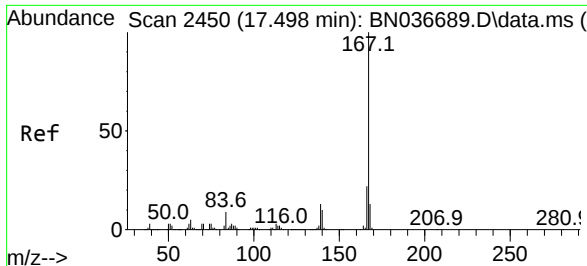
Tgt Ion:	216	Resp:	32698
Ion Ratio	Lower	Upper	
216	100		
214	83.3	59.9	89.9
218	47.2	35.8	53.8



#76
 Pentachlorobenzene
 Concen: 4.464 ng/uL
 RT: 14.669 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

Tgt Ion:	250	Resp:	33245
Ion Ratio	Lower	Upper	
250	100		
248	56.7	46.3	69.5
252	57.7	50.2	75.4

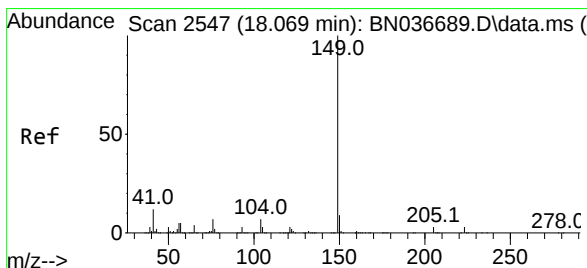
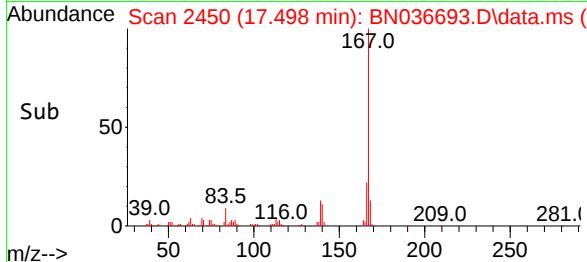
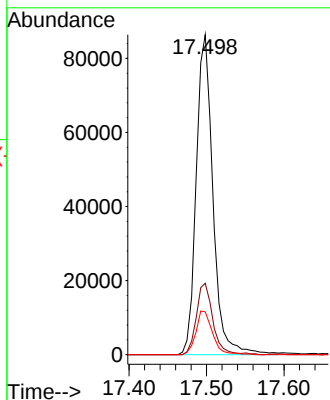
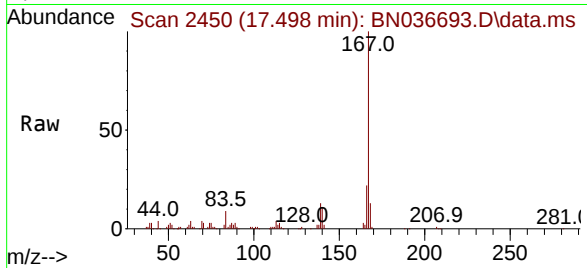




#77
 Carbazole
 Concen: 4.532 ng/ul
 RT: 17.498 min Scan# 2450
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

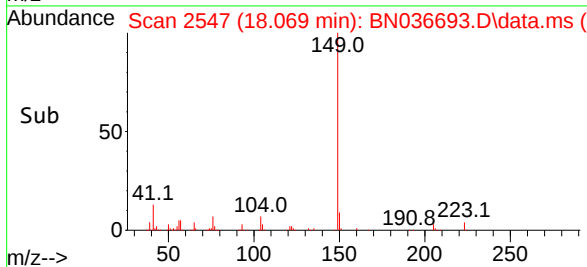
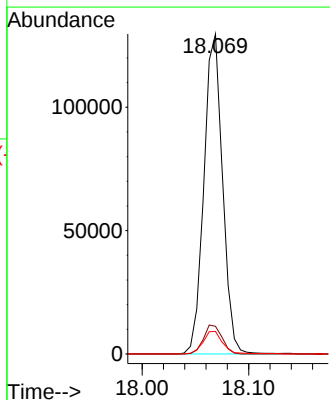
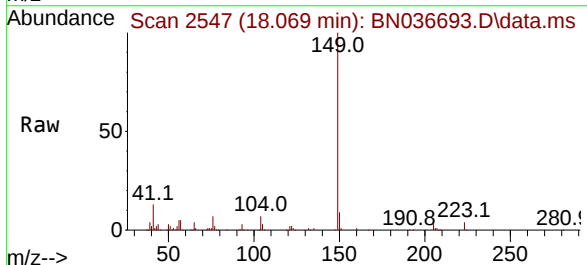
Instrument : BNA_N
 ClientSampleId : MDL-WATER-QT1-2025-01

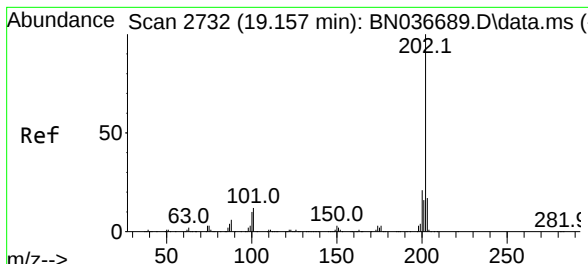
Tgt Ion:167 Resp: 129805
 Ion Ratio Lower Upper
 167 100
 166 22.3 18.0 27.0
 139 13.4 11.1 16.7



#78
 Di-n-butylphthalate
 Concen: 4.435 ng/ul
 RT: 18.069 min Scan# 2547
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

Tgt Ion:149 Resp: 158006
 Ion Ratio Lower Upper
 149 100
 150 8.6 7.4 11.2
 104 7.1 5.1 7.7

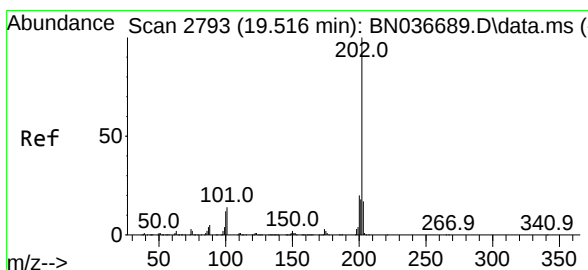
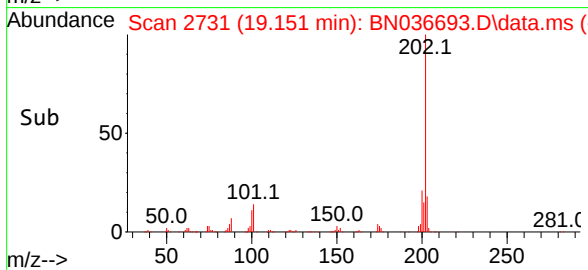
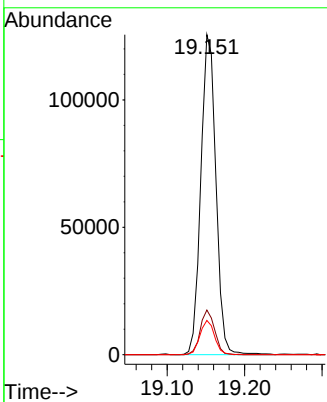
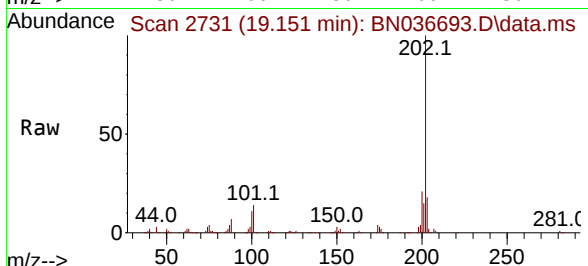




#80
 Fluoranthene
 Concen: 4.811 ng/ul
 RT: 19.151 min Scan# 2731
 Delta R.T. -0.006 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

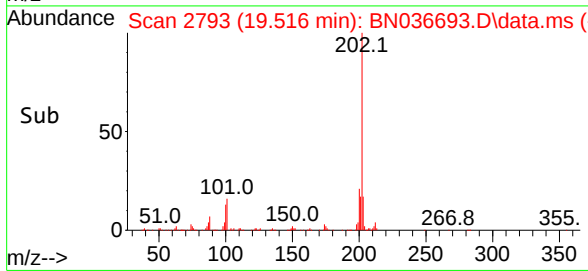
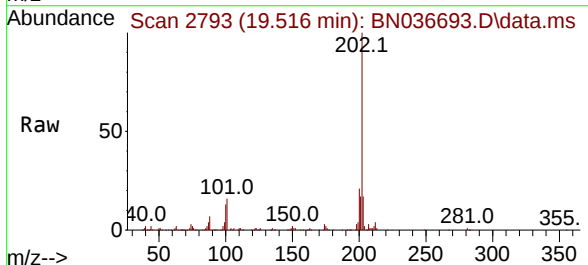
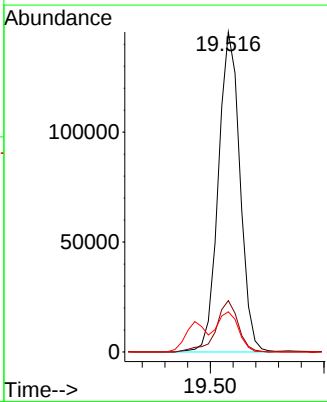
Instrument : BNA_N
 ClientSampleId : MDL-WATER-QT1-2025-01

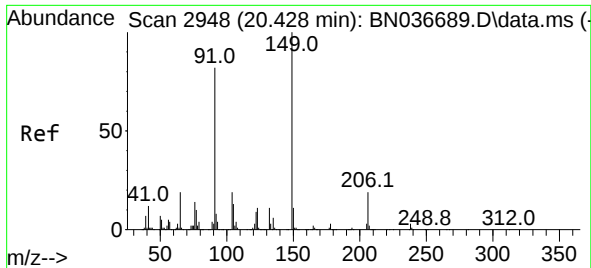
Tgt Ion:	202	Resp:	169807
Ion Ratio	Lower	Upper	
202	100		
101	13.9	10.2	15.2
100	10.7	7.8	11.8



#82
 Pyrene
 Concen: 5.012 ng/ul
 RT: 19.516 min Scan# 2793
 Delta R.T. 0.000 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

Tgt Ion:	202	Resp:	192555
Ion Ratio	Lower	Upper	
202	100		
101	16.0	12.2	18.2
100	12.5	10.9	16.3

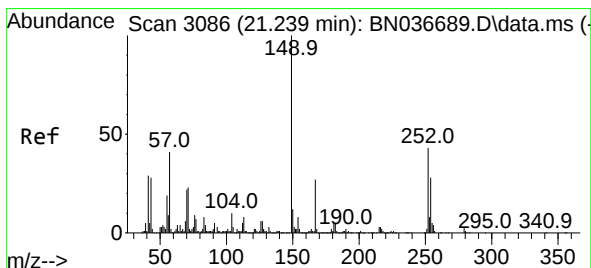
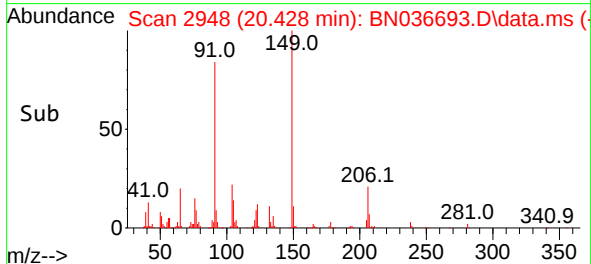
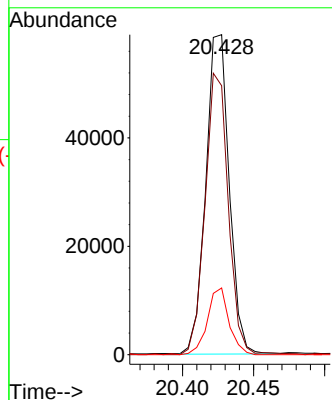
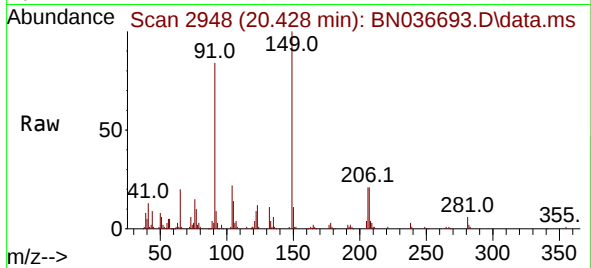




#83
Butylbenzylphthalate
Concen: 4.285 ng/ul
RT: 20.428 min Scan# 2948
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

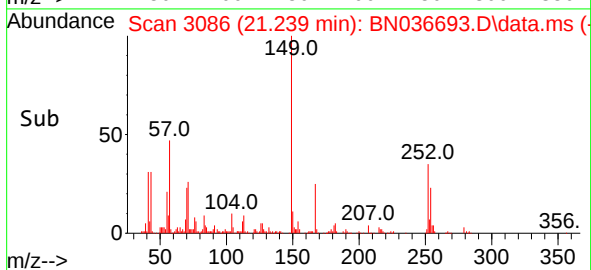
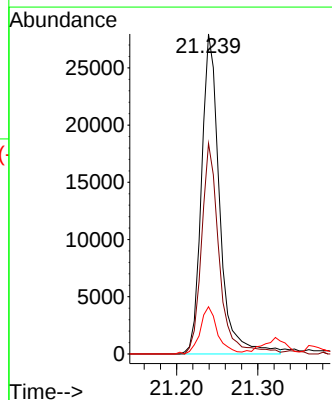
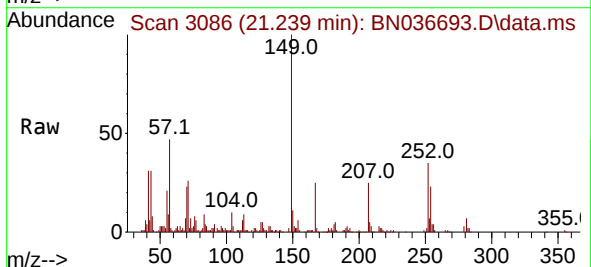
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

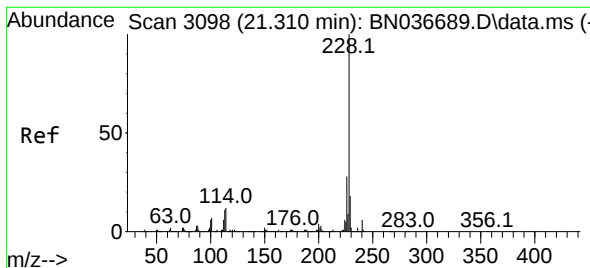
Tgt Ion:149 Resp: 67891
Ion Ratio Lower Upper
149 100
91 84.0 68.8 103.2
206 20.9 15.3 22.9



#84
3,3'-Dichlorobenzidine
Concen: 4.269 ng/ul
RT: 21.239 min Scan# 3086
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:252 Resp: 43390
Ion Ratio Lower Upper
252 100
254 65.8 52.2 78.4
126 14.7 10.8 16.2





#85

Benzo(a)anthracene

Concen: 4.786 ng/ul

RT: 21.310 min Scan# 3098

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

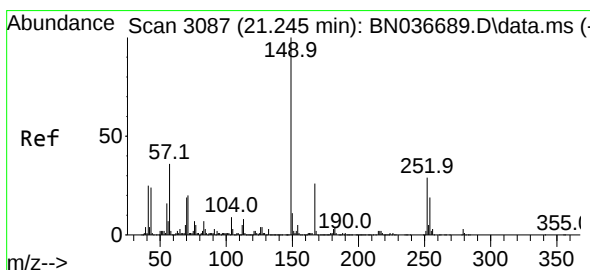
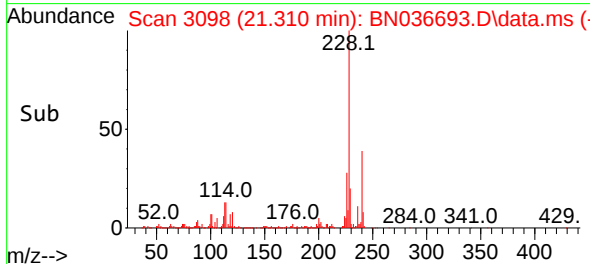
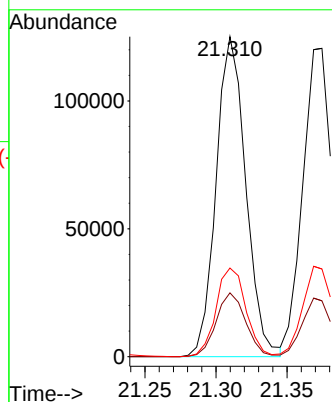
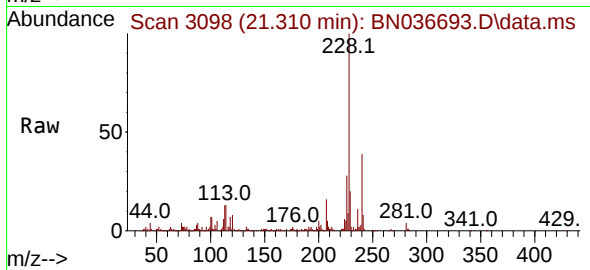
Tgt Ion:228 Resp: 182024

Ion Ratio Lower Upper

228 100

229 20.0 15.7 23.5

226 27.7 21.4 32.2



#86

Bis(2-ethylhexyl)phthalate

Concen: 4.771 ng/ul

RT: 21.245 min Scan# 3087

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

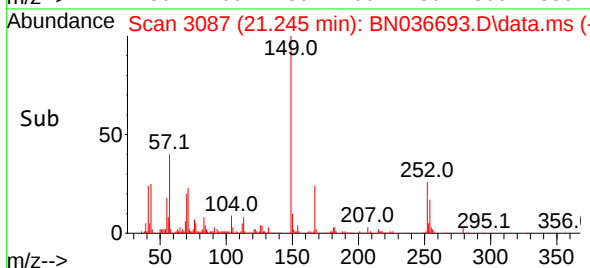
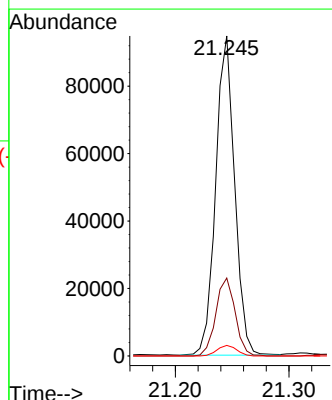
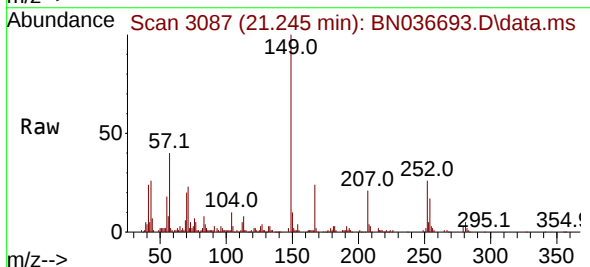
Tgt Ion:149 Resp: 109817

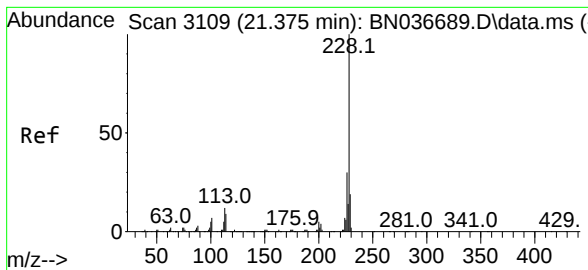
Ion Ratio Lower Upper

149 100

167 24.4 21.1 31.7

279 3.3 2.8 4.2





#87

Chrysene

Concen: 4.782 ng/ul

RT: 21.375 min Scan# 3109

Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

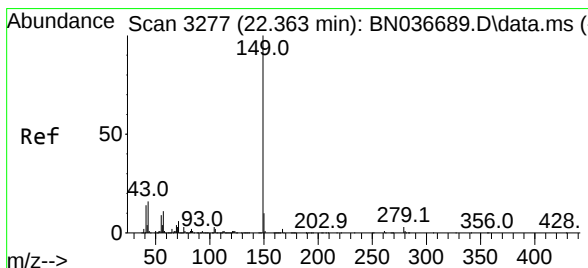
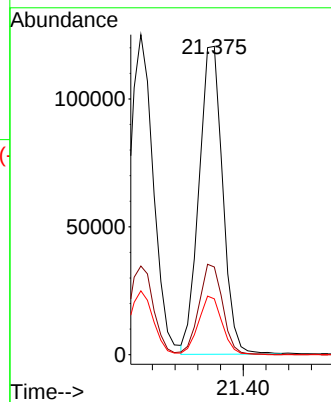
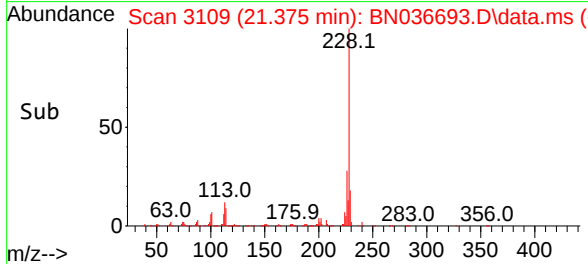
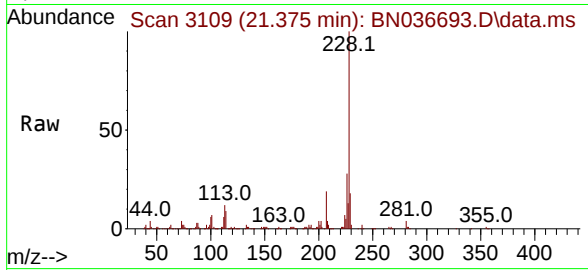
Tgt Ion:228 Resp: 175068

Ion Ratio Lower Upper

228 100

226 28.5 25.7 38.5

229 18.1 15.4 23.0



#89

Di-n-octyl phthalate

Concen: 4.176 ng/ul

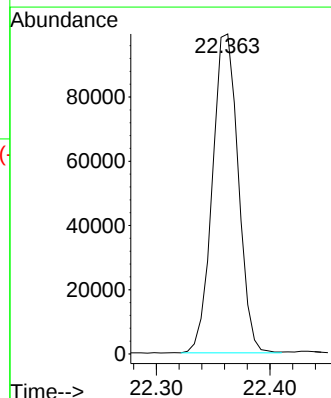
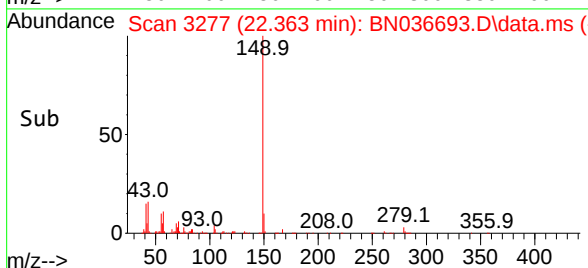
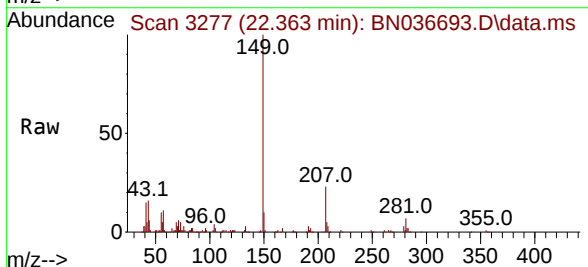
RT: 22.363 min Scan# 3277

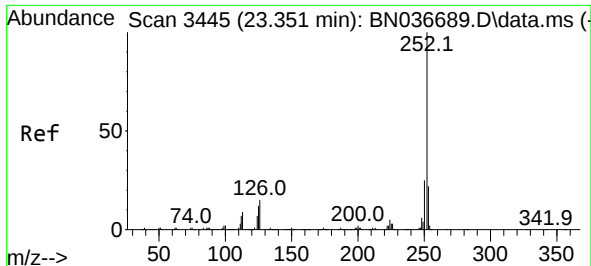
Delta R.T. 0.000 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Tgt Ion:149 Resp: 157075

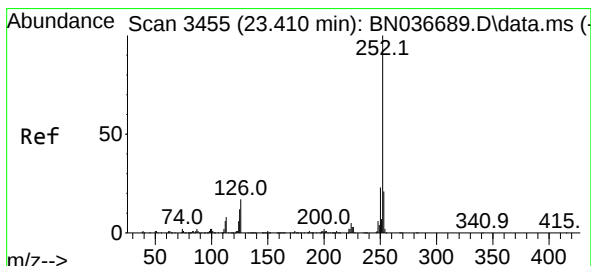
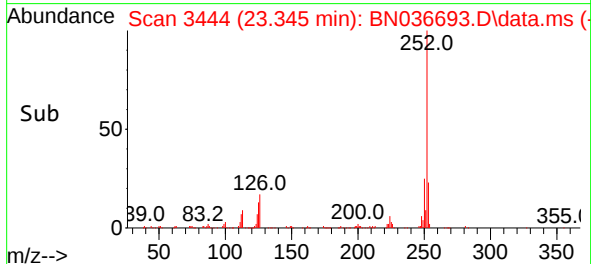
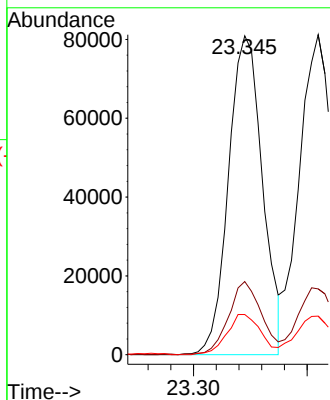
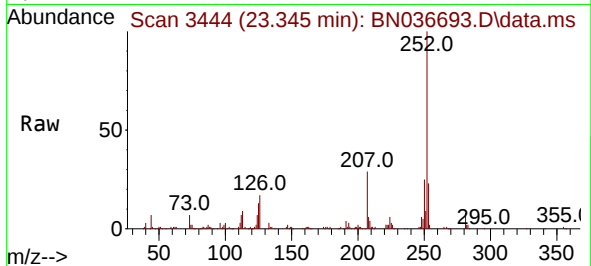




#90
Benzo(b)fluoranthene
Concen: 4.919 ng/ul
RT: 23.345 min Scan# 3444
Delta R.T. -0.006 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

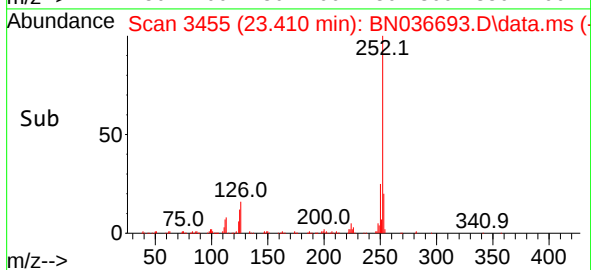
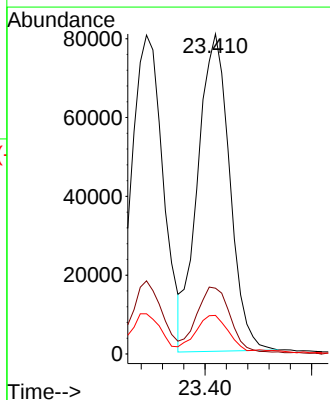
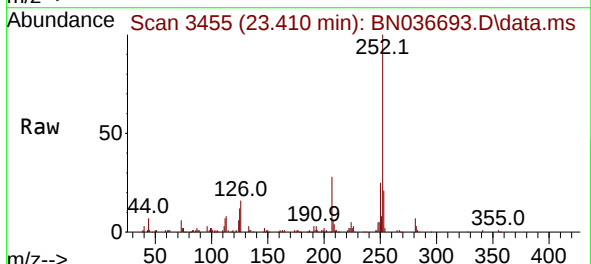
Instrument :
BNA_N
ClientSampleId :
MDL-WATER-QT1-2025-01

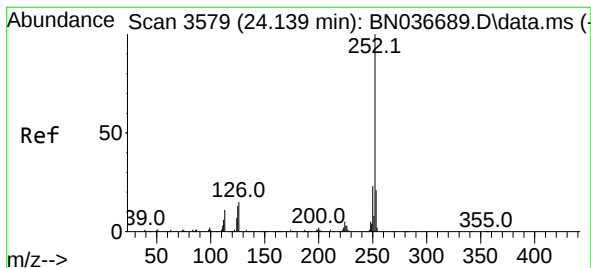
Tgt Ion:252 Resp: 168620
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.6
125 12.6 9.8 14.6



#91
Benzo(k)fluoranthene
Concen: 4.858 ng/ul
RT: 23.410 min Scan# 3455
Delta R.T. 0.000 min
Lab File: BN036693.D
Acq: 20 Mar 2025 12:49

Tgt Ion:252 Resp: 168092
Ion Ratio Lower Upper
252 100
253 20.5 18.2 27.2
125 12.0 9.6 14.4





#93

Benzo(a)pyrene

Concen: 4.857 ng/ul

RT: 24.145 min Scan# 3580

Delta R.T. 0.006 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

Instrument :

BNA_N

ClientSampleId :

MDL-WATER-QT1-2025-01

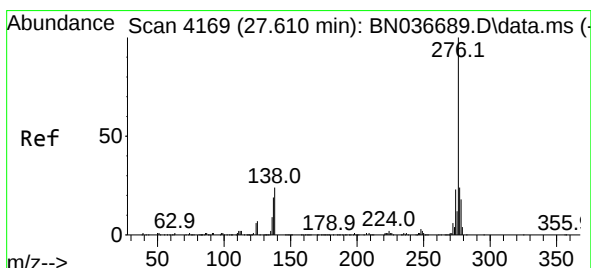
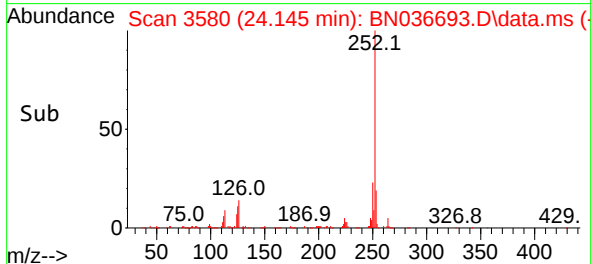
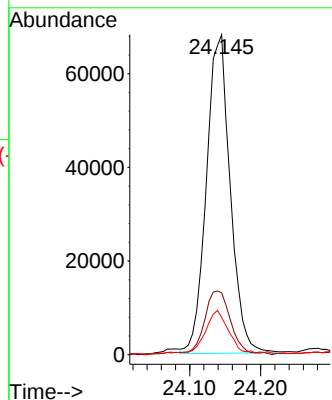
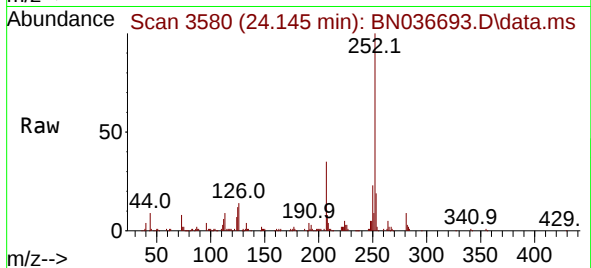
Tgt Ion:252 Resp: 158938

Ion Ratio Lower Upper

252 100

253 19.4 16.6 24.8

125 11.7 10.1 15.1



#94

Indeno(1,2,3-cd)pyrene

Concen: 4.671 ng/ul

RT: 27.592 min Scan# 4166

Delta R.T. -0.018 min

Lab File: BN036693.D

Acq: 20 Mar 2025 12:49

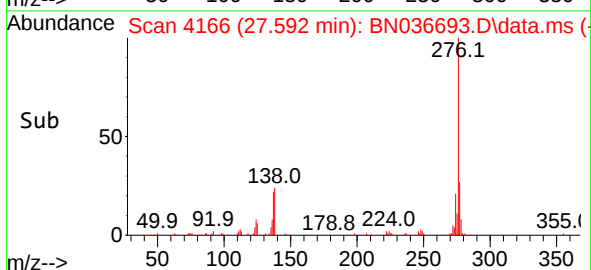
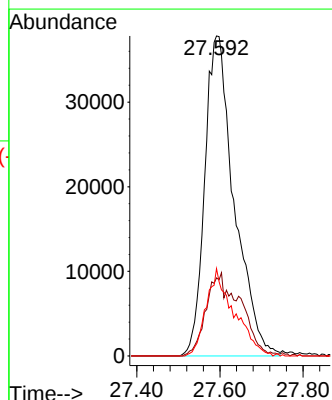
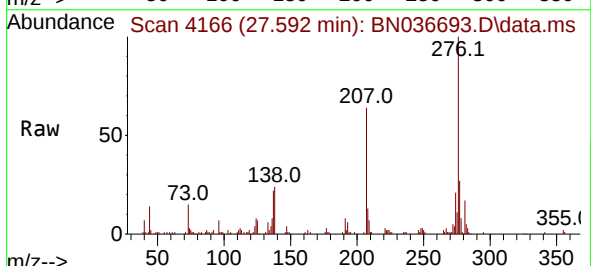
Tgt Ion:276 Resp: 186629

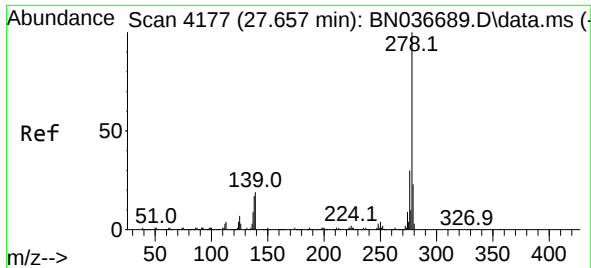
Ion Ratio Lower Upper

276 100

138 24.4 20.6 30.8

277 27.3 18.8 28.2

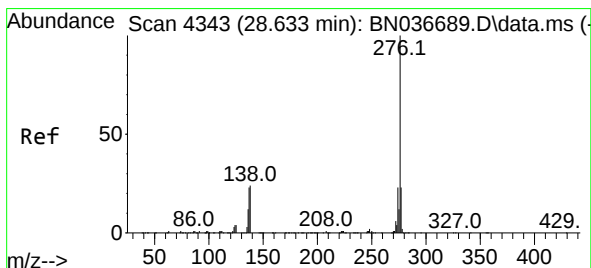
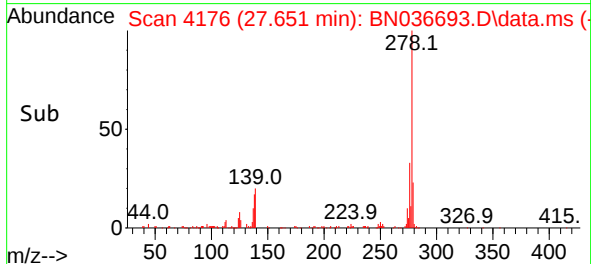
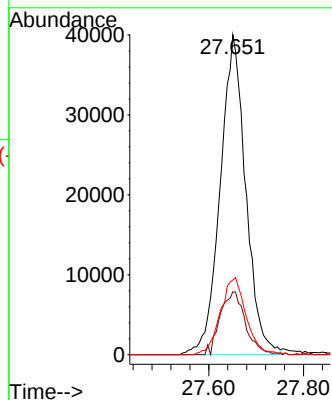
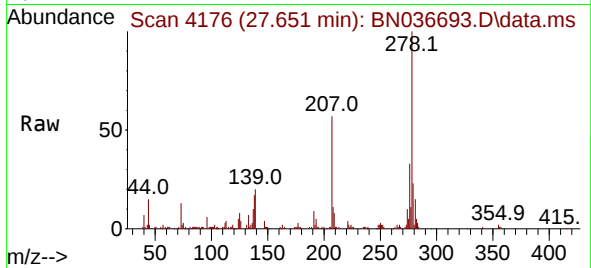




#95
 Dibenzo(a,h)anthracene
 Concen: 4.706 ng/ul
 RT: 27.651 min Scan# 4176
 Delta R.T. -0.006 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

Instrument :
 BNA_N
 ClientSampleId :
 MDL-WATER-QT1-2025-01

Tgt Ion:278	Resp:	149894
Ion	Ratio	Lower Upper
278	100	
139	19.6	15.4 23.0
279	23.3	20.1 30.1



#96
 Benzo(g,h,i)perylene
 Concen: 4.618 ng/ul
 RT: 28.621 min Scan# 4341
 Delta R.T. -0.012 min
 Lab File: BN036693.D
 Acq: 20 Mar 2025 12:49

Tgt Ion:276	Resp:	143690
Ion	Ratio	Lower Upper
276	100	
138	25.9	19.8 29.8
277	23.4	18.6 28.0

