

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
 Data File : BF143513.D
 Acq On : 21 Aug 2025 05:18
 Operator : RC/JU
 Sample : Q2900-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-11C-081825

Quant Time: Aug 21 07:06:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 21 06:12:21 2025
 Response via : Initial Calibration

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

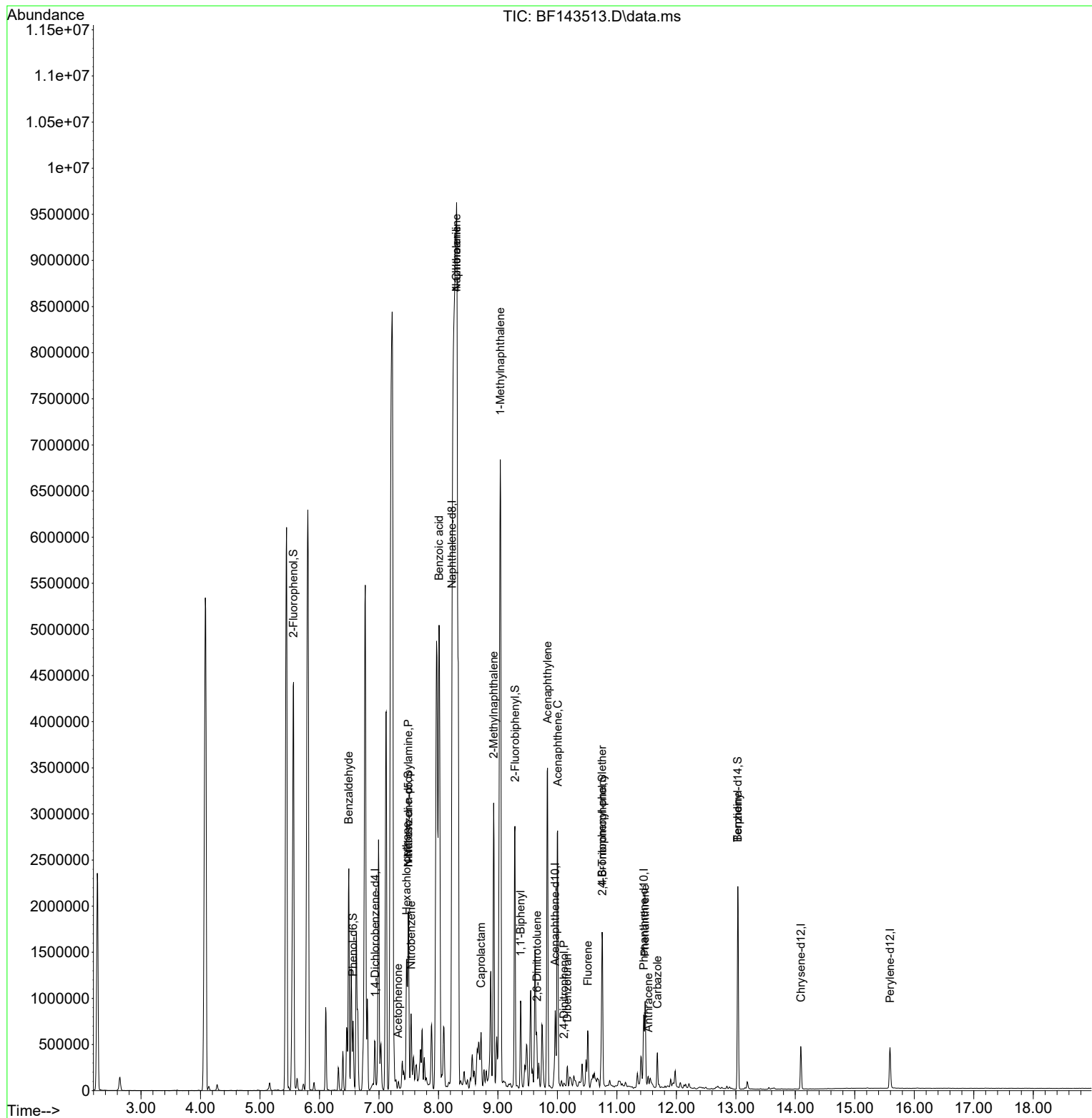
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.934	152	125223	20.000	ng	0.00
21) Naphthalene-d8	8.228	136	212422	20.000	ng	0.02
39) Acenaphthene-d10	9.963	164	251603	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	379796	20.000	ng	0.00
76) Chrysene-d12	14.092	240	223331	20.000	ng	-0.01
86) Perylene-d12	15.592	264	273794	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	344694	48.066	ng	0.00
7) Phenol-d6	6.563	99	334252	37.757	ng	-0.01
23) Nitrobenzene-d5	7.492	82	727322	199.804	ng	0.00
42) 2,4,6-Tribromophenol	10.757	330	317039	135.368	ng	0.00
45) 2-Fluorobiphenyl	9.286	172	1285416	84.433	ng	0.00
79) Terphenyl-d14	13.033	244	1068479	83.488	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.493	77	152948	21.340	ng	# 1
18) Hexachloroethane	7.463	117	179567	59.160	ng	# 1
19) n-Nitroso-di-n-propyla...	7.492	70	98388	18.183	ng	# 79
22) Acetophenone	7.322	105	41482	9.039	ng	# 52
24) Nitrobenzene	7.540	77	26203	6.994	ng	# 5
31) Naphthalene	8.304	128	21360853	2094.533	ng	# 94
32) Benzoic acid	8.010	122	6600	9.117	ng	# 1
33) 4-Chloroaniline	8.304	127	3296166	910.631	ng	# 34
35) Caprolactam	8.716	113	2090	2.851	ng	# 5
37) 2-Methylnaphthalene	8.928	142	1026866	150.758	ng	100
38) 1-Methylnaphthalene	9.039	142	3520155	540.282	ng	99
46) 1,1'-Biphenyl	9.381	154	407321	22.809	ng	100
49) Acenaphthylene	9.834	152	2111265	105.231	ng	98
51) 2,6-Dinitrotoluene	9.657	165	9382	2.987	ng	# 63
52) Acenaphthene	10.004	154	894990	65.702	ng	99
54) 2,4-Dinitrophenol	10.110	184	890	5.788	ng	# 1
55) Dibenzofuran	10.169	168	92324	4.754	ng	# 97
58) Fluorene	10.510	166	254691	17.039	ng	98
67) 4-Bromophenyl-phenylether	10.751	248	20202	4.458	ng	# 1
71) Phenanthrene	11.475	178	456787	22.459	ng	99
72) Anthracene	11.528	178	64117	3.112	ng	100
73) Carbazole	11.680	167	210655	12.478	ng	99
77) Benzidine	13.033	184	12898	2.371	ng	# 93

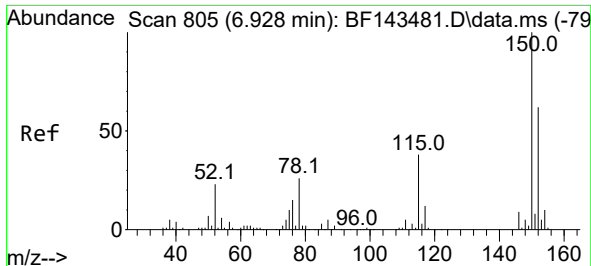
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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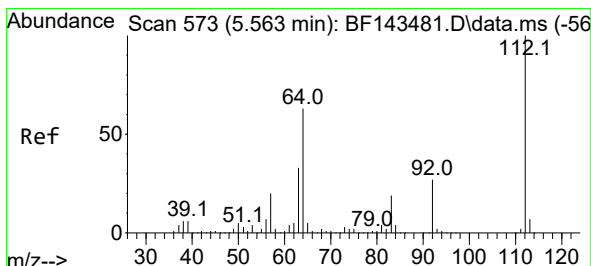
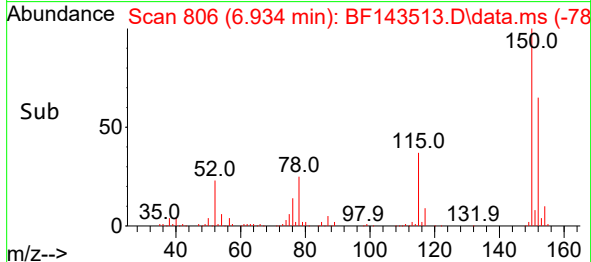
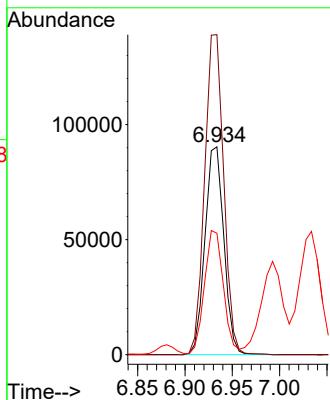
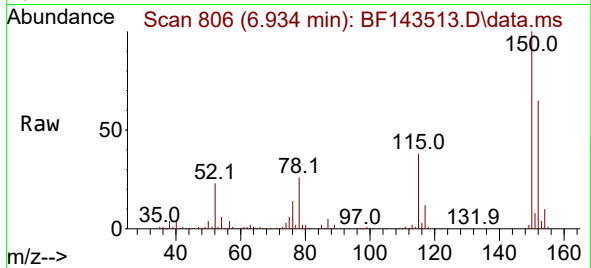




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.934 min Scan# 805
Delta R.T. 0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

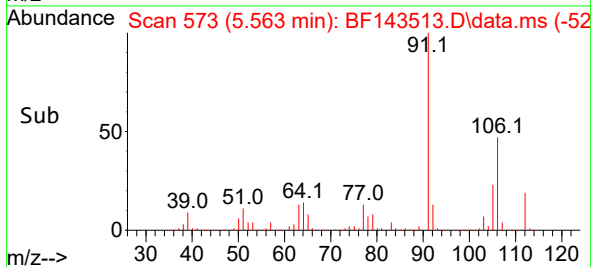
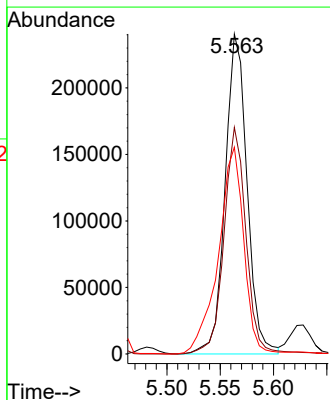
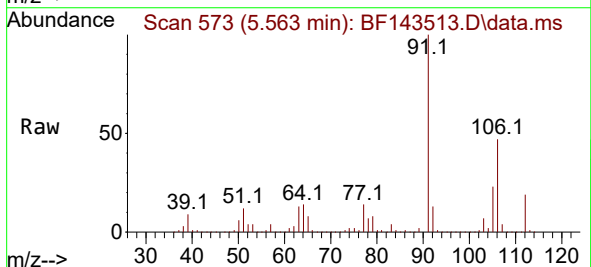
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

Tgt Ion:152 Resp: 125223
Ion Ratio Lower Upper
152 100
150 153.9 128.9 193.3
115 58.5 49.2 73.8



#5
2-Fluorophenol
Concen: 48.066 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:112 Resp: 344694
Ion Ratio Lower Upper
112 100
64 70.8 50.4 75.6
63 64.6 26.4 39.6#

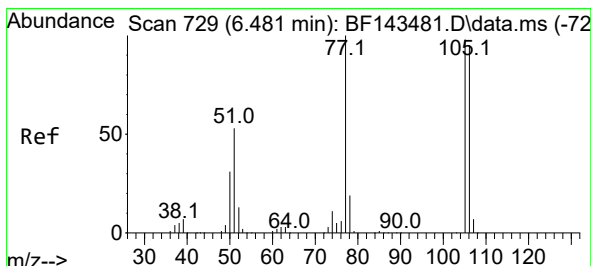
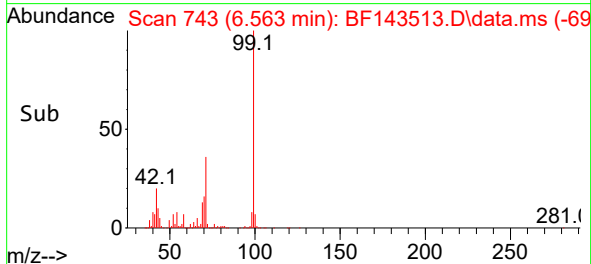
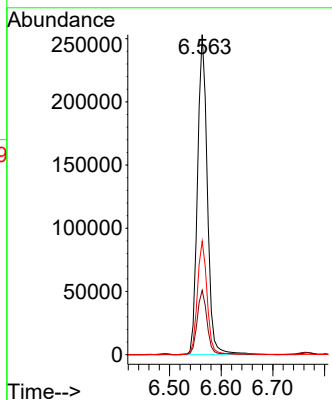
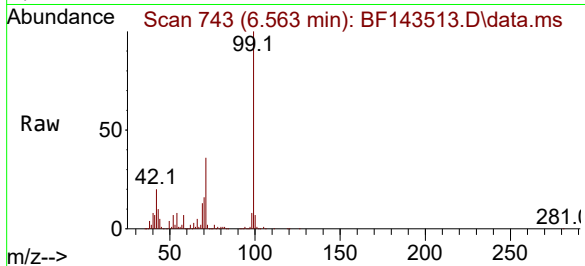




#7
Phenol-d6
Concen: 37.757 ng
RT: 6.563 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

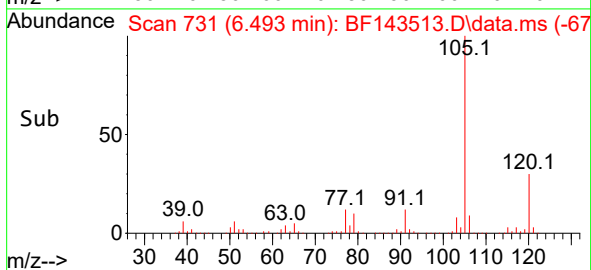
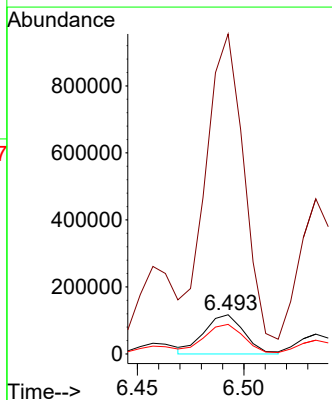
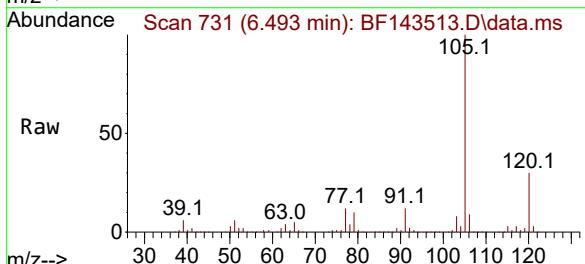
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ClientSampleId :
MW-11C-081825

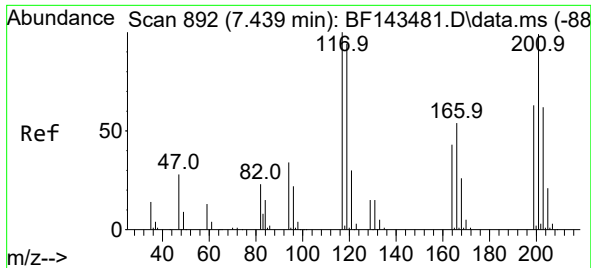
Tgt Ion: 99 Resp: 334252
Ion Ratio Lower Upper
99 100
42 20.1 16.3 24.5
71 35.5 28.2 42.2



#9
Benzaldehyde
Concen: 21.340 ng
RT: 6.493 min Scan# 731
Delta R.T. 0.012 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion: 77 Resp: 152948
Ion Ratio Lower Upper
77 100
105 815.7 78.1 118.1#
106 75.3 74.9 114.9

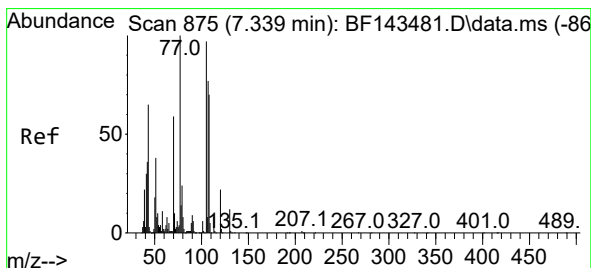
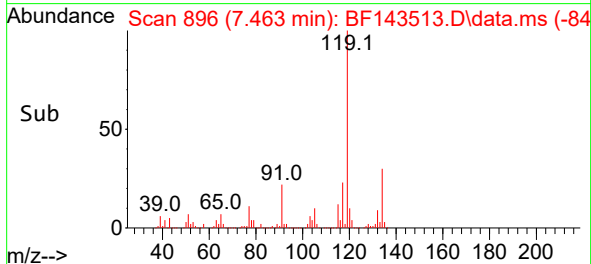
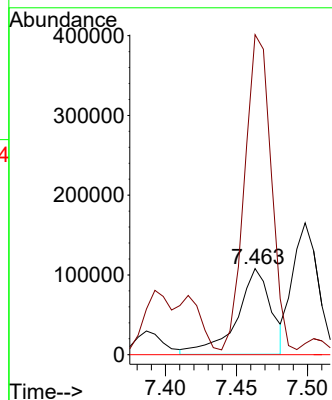
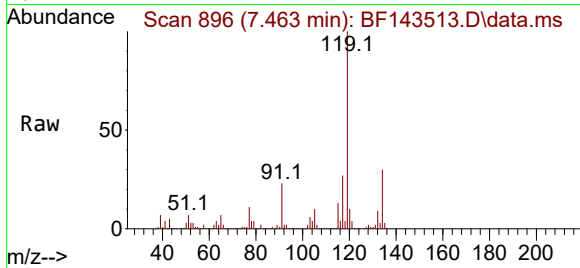




#18
Hexachloroethane
Concen: 59.160 ng
RT: 7.463 min Scan# 892
Delta R.T. 0.018 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

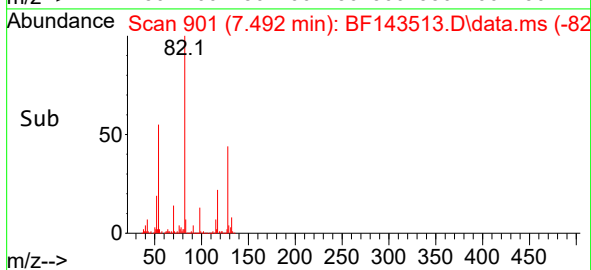
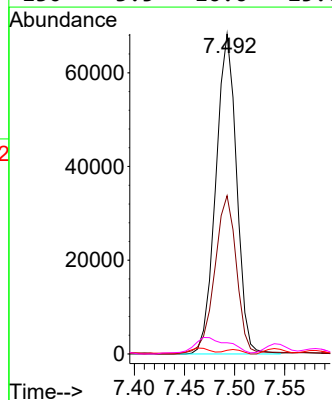
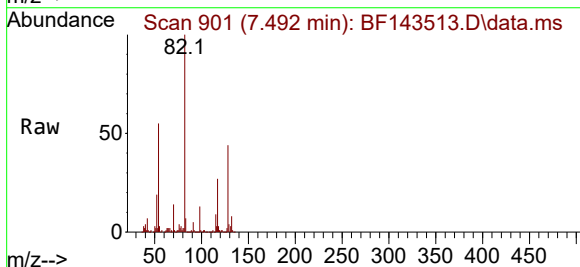
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

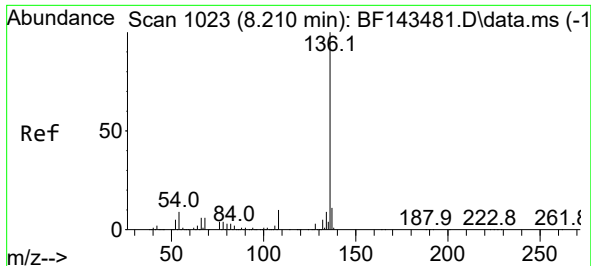
Tgt Ion:117 Resp: 179567
Ion Ratio Lower Upper
117 100
119 371.6 75.4 113.0#
201 0.0 79.0 118.4#



#19
n-Nitroso-di-n-propylamine
Concen: 18.183 ng
RT: 7.492 min Scan# 901
Delta R.T. 0.141 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion: 70 Resp: 98388
Ion Ratio Lower Upper
70 100
42 49.4 49.3 73.9
101 1.2 7.8 11.8#
130 3.5 16.6 25.0#

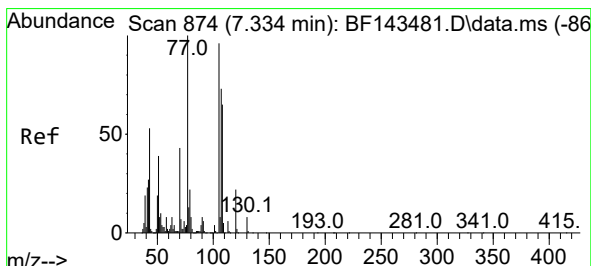
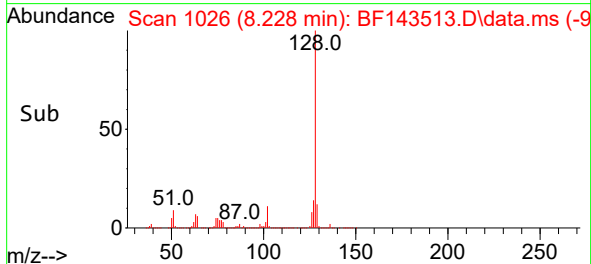
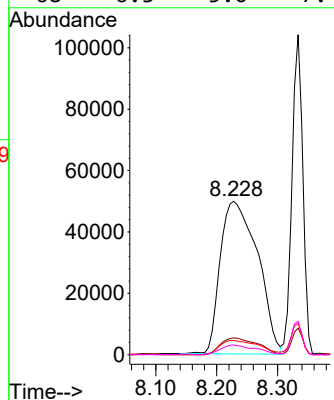
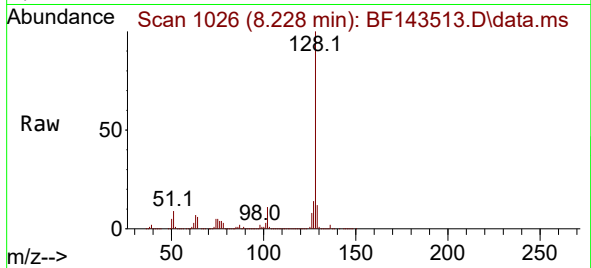




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.228 min Scan# 1023
Delta R.T. 0.018 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

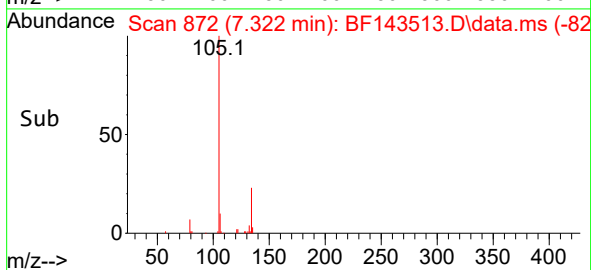
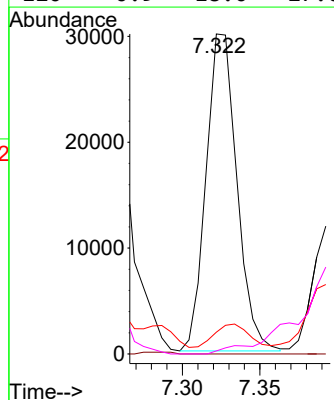
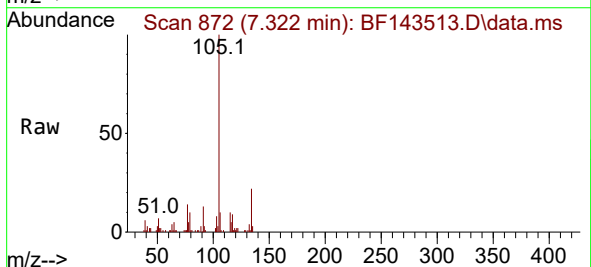
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ClientSampleId :
MW-11C-081825

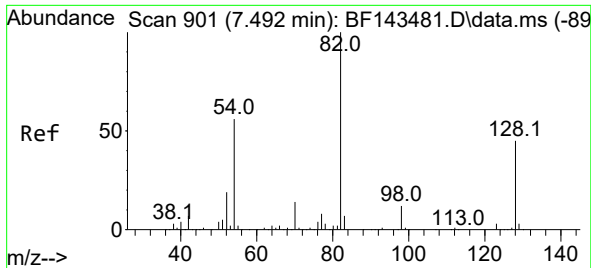
Tgt Ion:136 Resp: 212422
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.4
54 9.2 7.4 11.2
68 6.3 5.0 7.4



#22
Acetophenone
Concen: 9.039 ng
RT: 7.322 min Scan# 872
Delta R.T. -0.018 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:105 Resp: 41482
Ion Ratio Lower Upper
105 100
71 0.0 5.9 8.9#
51 6.8 32.5 48.7#
120 0.9 18.0 27.0#

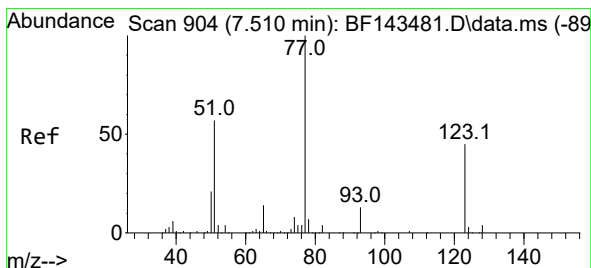
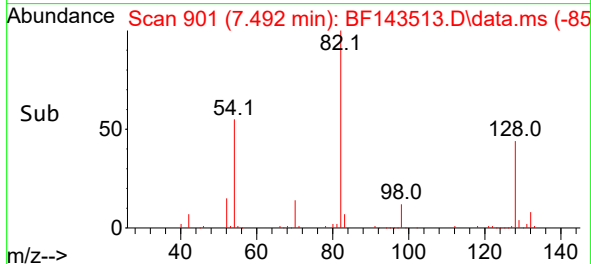
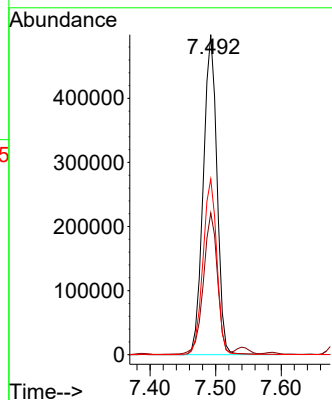
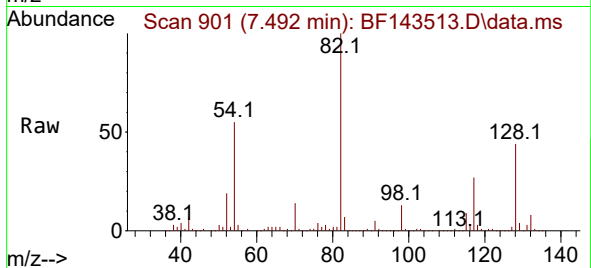




#23
Nitrobenzene-d5
Concen: 199.804 ng
RT: 7.492 min Scan# 901
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

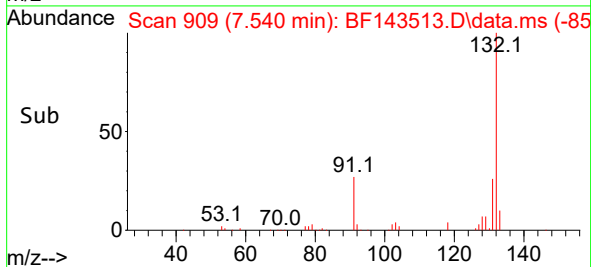
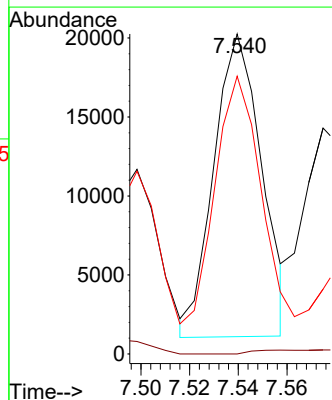
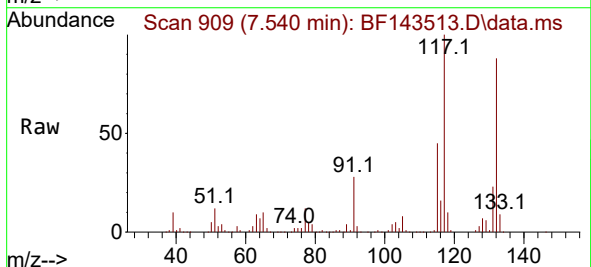
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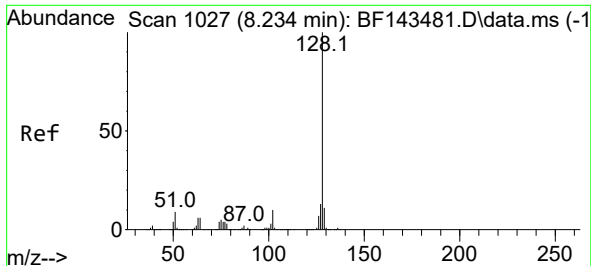
Tgt Ion: 82 Resp: 727322
Ion Ratio Lower Upper
82 100
128 44.3 35.5 53.3
54 54.9 44.3 66.5



#24
Nitrobenzene
Concen: 6.994 ng
RT: 7.540 min Scan# 909
Delta R.T. 0.024 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion: 77 Resp: 26203
Ion Ratio Lower Upper
77 100
123 0.0 36.1 54.1#
65 86.8 11.0 16.6#

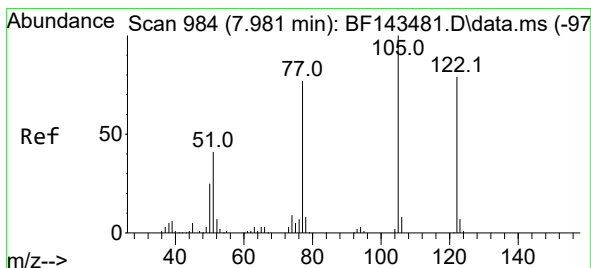
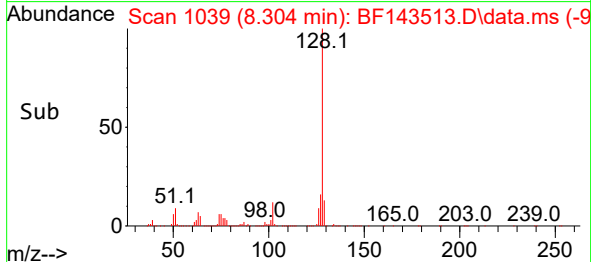
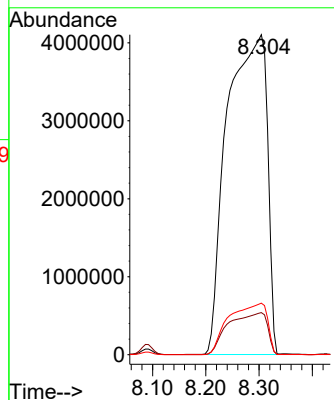
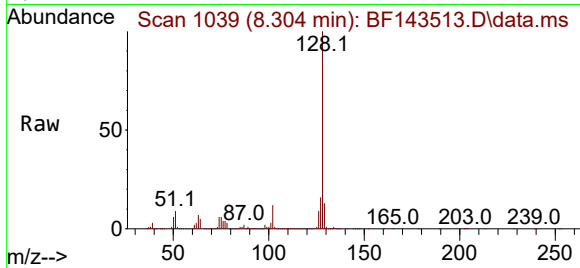




#31
Naphthalene
Concen: 2094.533 ng
RT: 8.304 min Scan# 1027
Delta R.T. 0.071 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

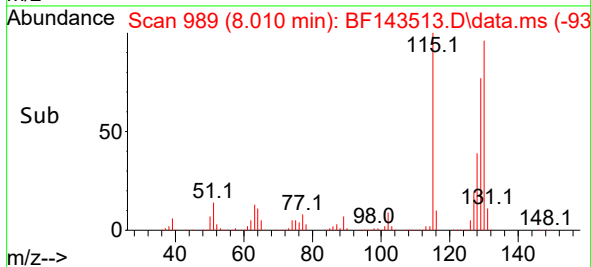
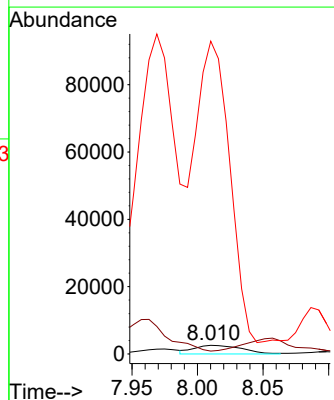
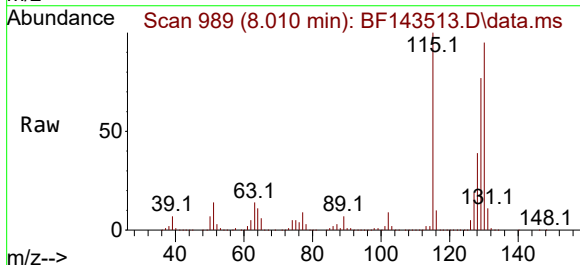
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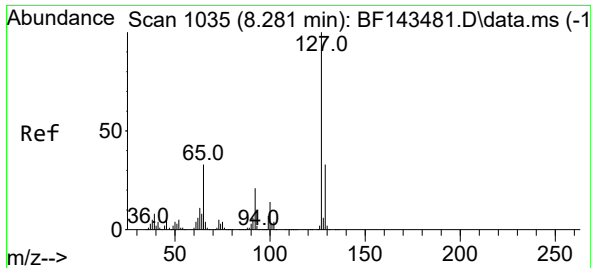
Tgt Ion:128 Resp:21360853
Ion Ratio Lower Upper
128 100
129 13.2 8.8 13.2
127 16.1 10.6 16.0#



#32
Benzoic acid
Concen: 9.117 ng
RT: 8.010 min Scan# 989
Delta R.T. 0.000 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:122 Resp: 6600
Ion Ratio Lower Upper
122 100
105 33.8 104.7 144.7#
77 3595.2 77.3 117.3#

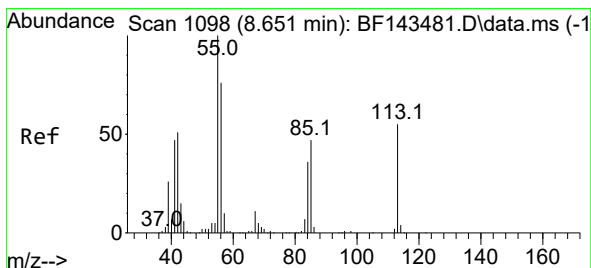
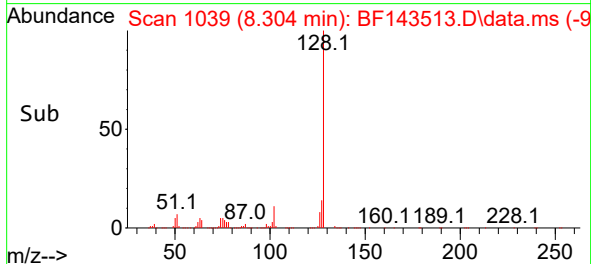
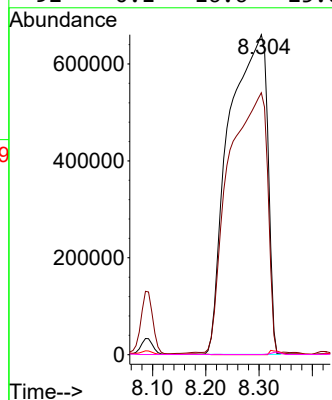
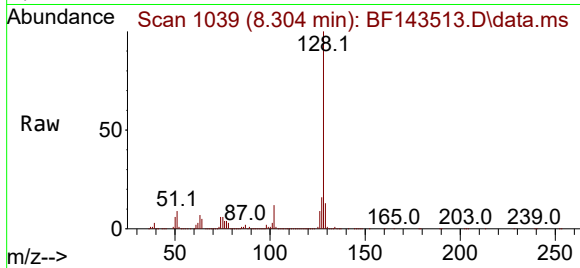




#33
4-Chloroaniline
Concen: 910.631 ng
RT: 8.304 min Scan# 1109
Delta R.T. 0.024 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

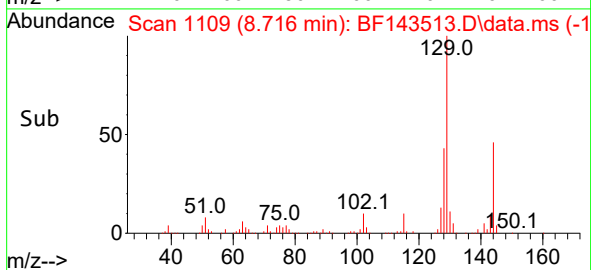
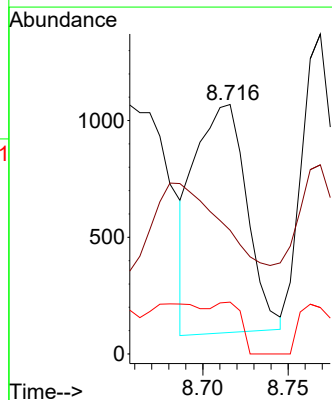
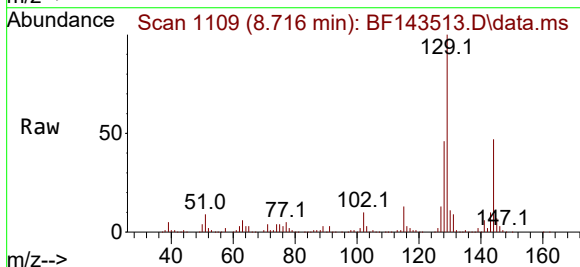
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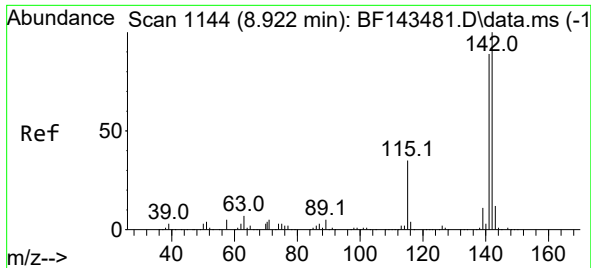
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Ion Ratio Lower Upper
127 100
129 81.8 26.1 39.1#
65 0.0 26.2 39.2#
92 0.1 16.6 25.0#



#35
Caprolactam
Concen: 2.851 ng
RT: 8.716 min Scan# 1109
Delta R.T. 0.041 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:113 Resp: 2090
Ion Ratio Lower Upper
113 100
55 49.6 162.8 202.8#
56 20.8 118.1 158.1#

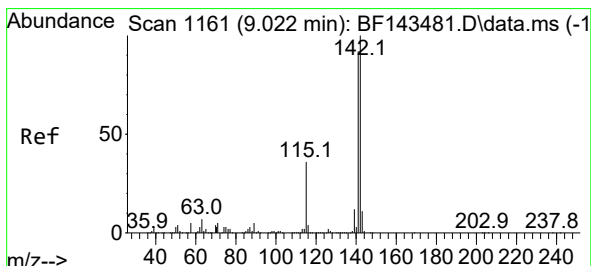
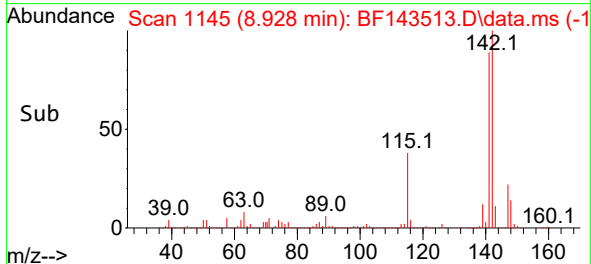
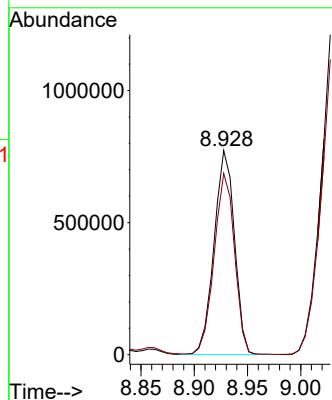
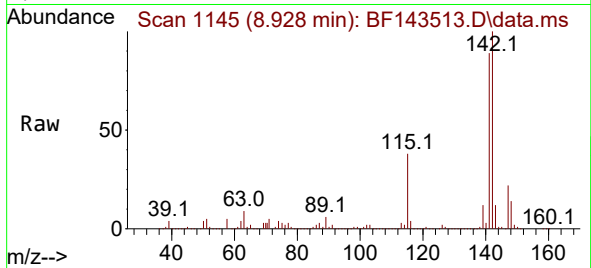




#37
2-Methylnaphthalene
Concen: 150.758 ng
RT: 8.928 min Scan# 1144
Delta R.T. 0.000 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

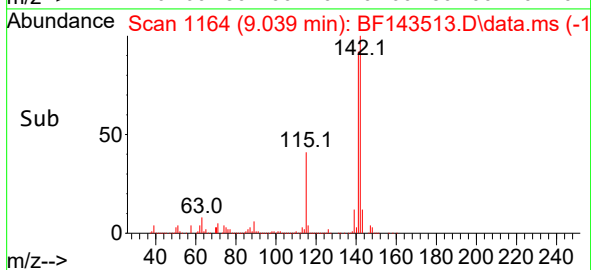
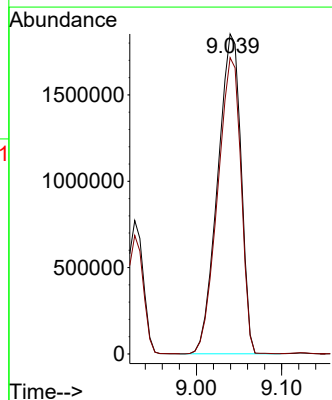
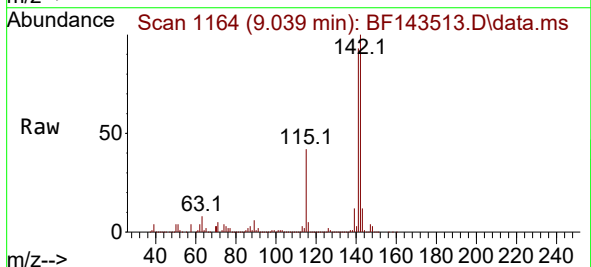
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

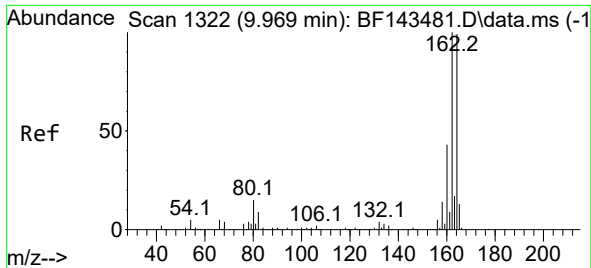
Tgt Ion:142 Resp: 1026866
Ion Ratio Lower Upper
142 100
141 88.8 71.0 106.4



#38
1-Methylnaphthalene
Concen: 540.282 ng
RT: 9.039 min Scan# 1164
Delta R.T. 0.012 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:142 Resp: 3520155
Ion Ratio Lower Upper
142 100
141 92.6 73.3 109.9

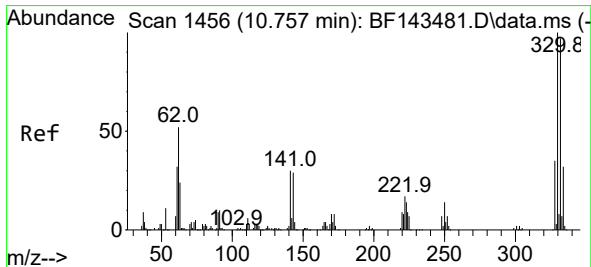
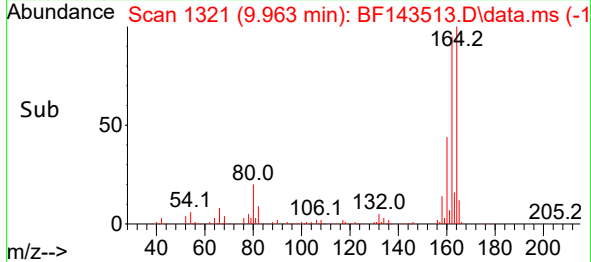
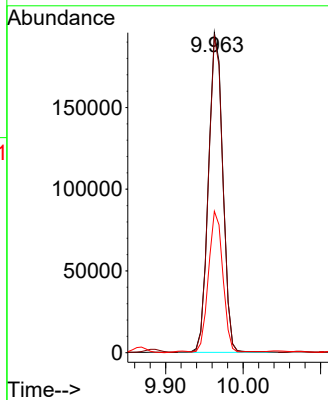
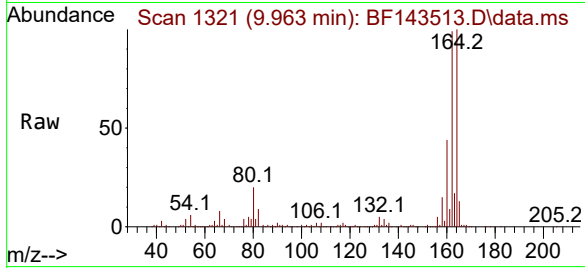




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

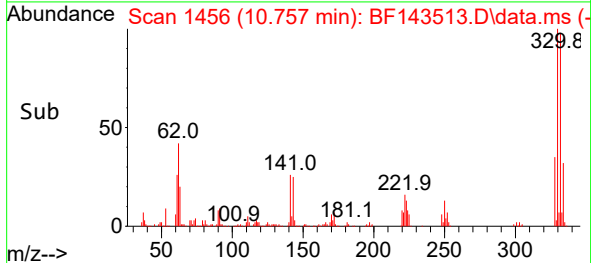
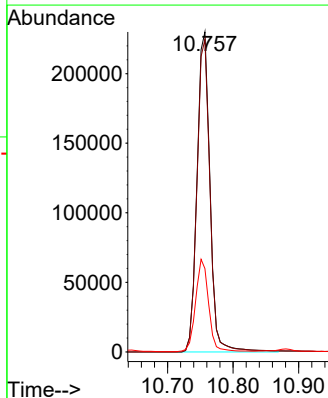
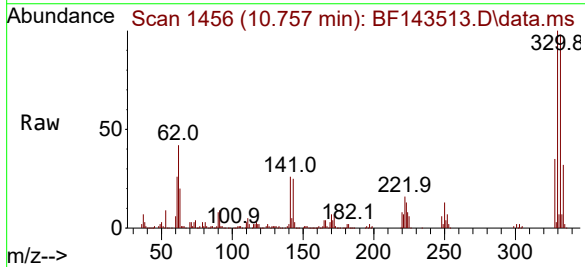
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

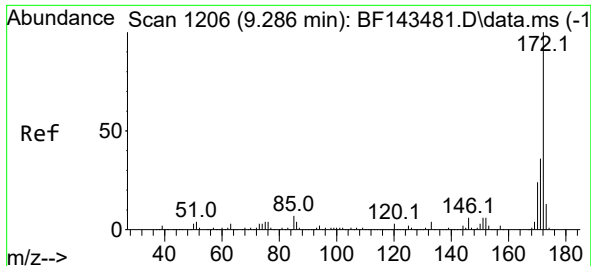
Tgt Ion:164 Resp: 251603
Ion Ratio Lower Upper
164 100
162 98.7 80.5 120.7
160 44.2 34.3 51.5



#42
2,4,6-Tribromophenol
Concen: 135.368 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:330 Resp: 317039
Ion Ratio Lower Upper
330 100
332 98.7 78.0 117.0
141 29.0 23.7 35.5





#45

2-Fluorobiphenyl

Concen: 84.433 ng

RT: 9.286 min Scan# 1206

Delta R.T. 0.000 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

Instrument :

BNA_F

ClientSampleId :

MW-11C-081825

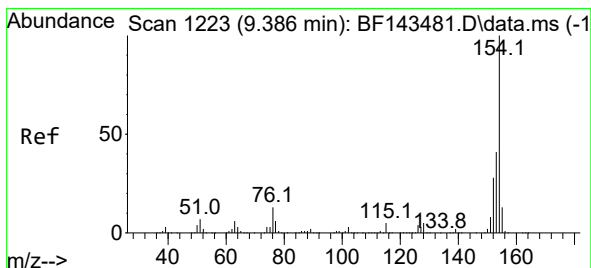
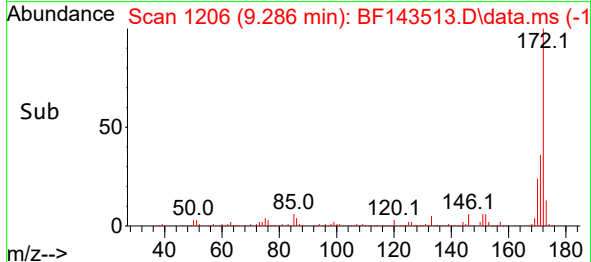
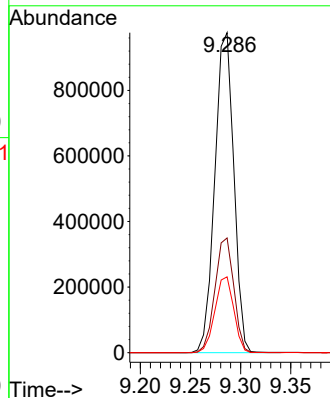
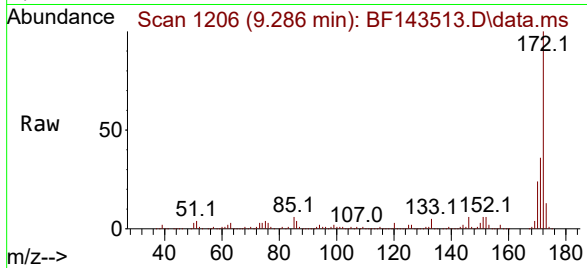
Tgt Ion:172 Resp: 1285416

Ion Ratio Lower Upper

172 100

171 35.9 28.8 43.2

170 23.7 18.8 28.2



#46

1,1'-Biphenyl

Concen: 22.809 ng

RT: 9.381 min Scan# 1222

Delta R.T. -0.012 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

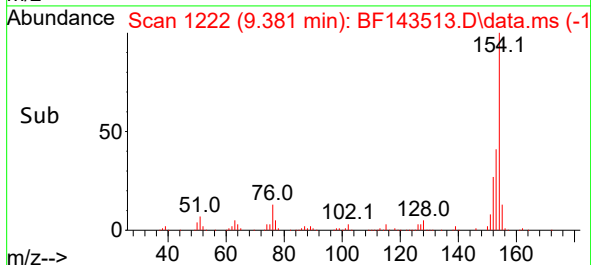
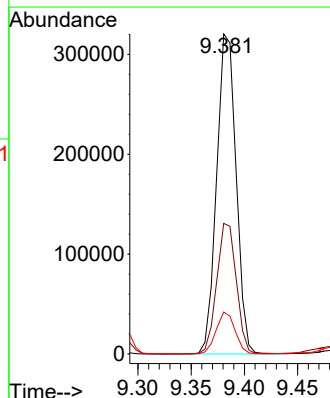
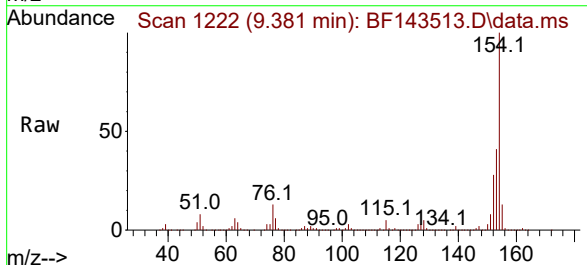
Tgt Ion:154 Resp: 407321

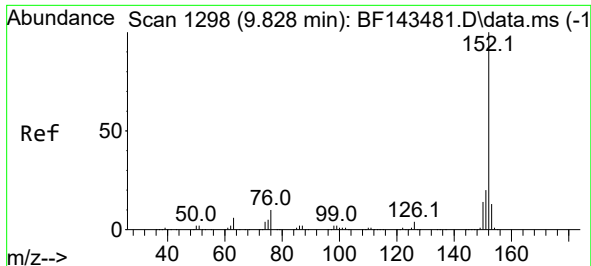
Ion Ratio Lower Upper

154 100

153 40.8 20.6 60.6

76 13.1 0.0 33.0





#49

Acenaphthylene

Concen: 105.231 ng

RT: 9.834 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

Instrument :

BNA_F

ClientSampleId :

MW-11C-081825

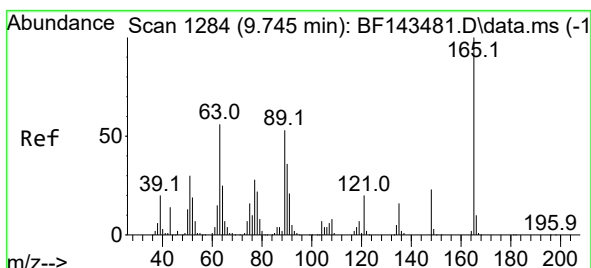
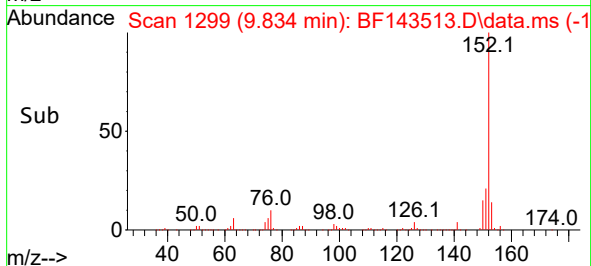
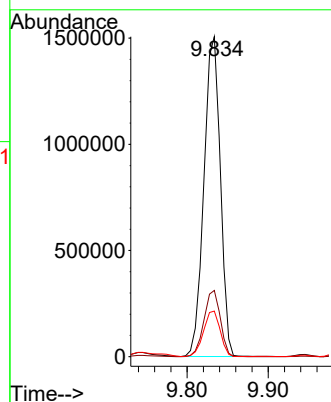
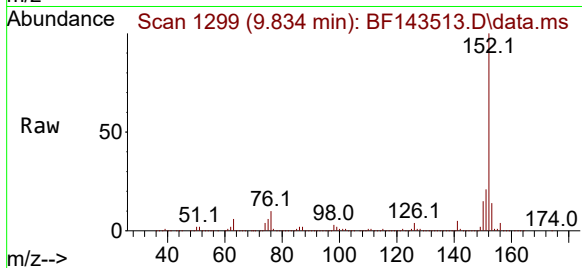
Tgt Ion:152 Resp: 2111265

Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.4

153 14.2 10.6 15.8



#51

2,6-Dinitrotoluene

Concen: 2.987 ng

RT: 9.657 min Scan# 1269

Delta R.T. -0.094 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

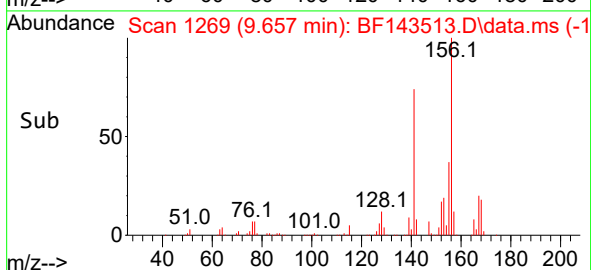
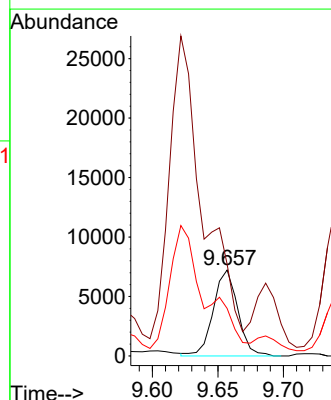
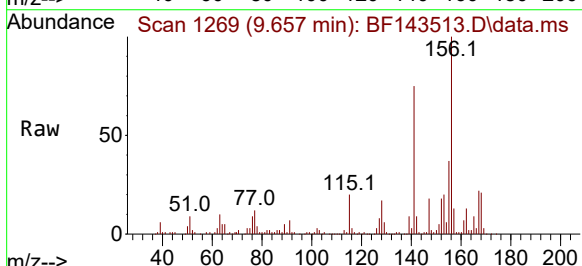
Tgt Ion:165 Resp: 9382

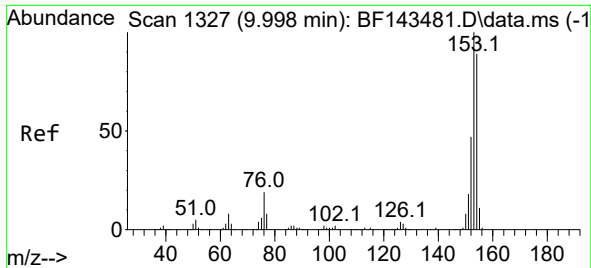
Ion Ratio Lower Upper

165 100

63 106.9 45.0 67.6#

89 55.3 42.5 63.7

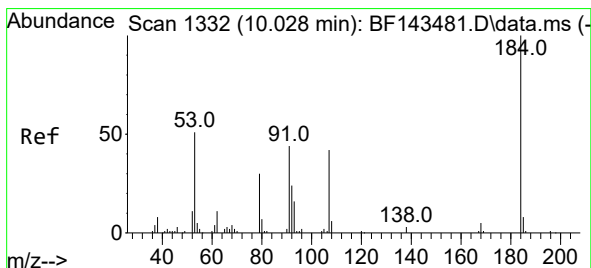
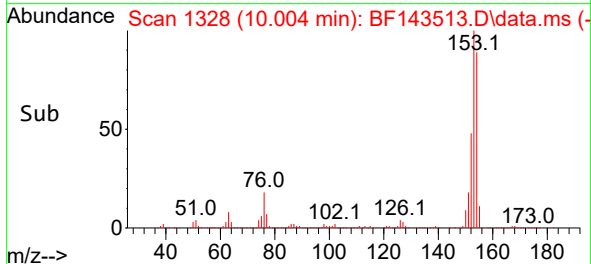
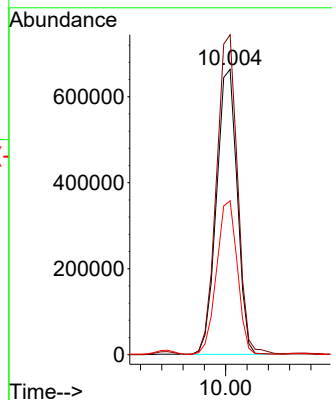
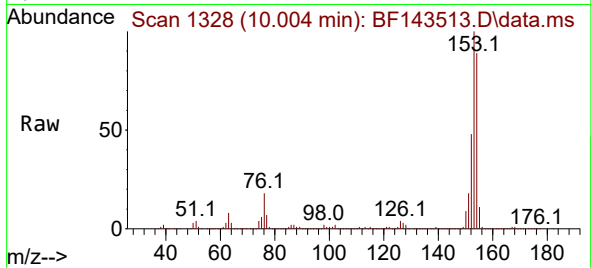




#52
Acenaphthene
Concen: 65.702 ng
RT: 10.004 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

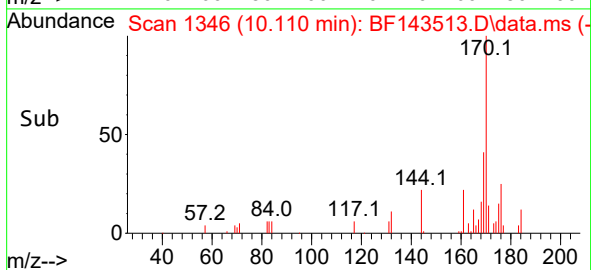
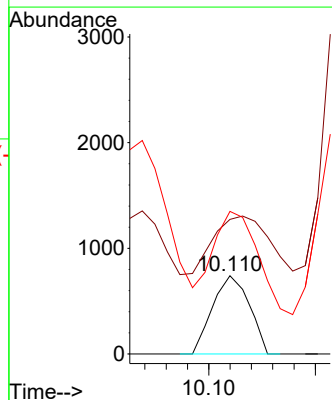
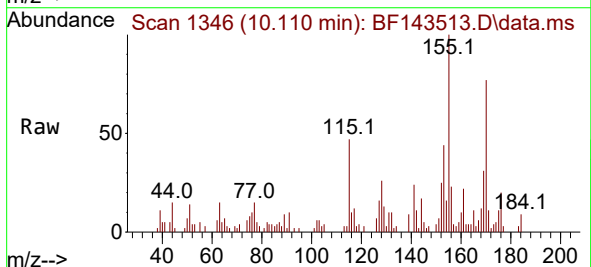
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

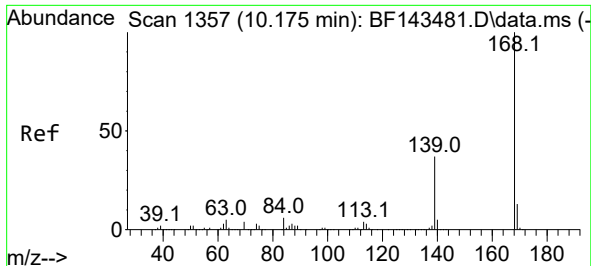
Tgt Ion:154 Resp: 894990
Ion Ratio Lower Upper
154 100
153 112.2 89.5 134.3
152 53.9 42.5 63.7



#54
2,4-Dinitrophenol
Concen: 5.788 ng
RT: 10.110 min Scan# 1346
Delta R.T. 0.082 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:184 Resp: 890
Ion Ratio Lower Upper
184 100
63 172.0 52.6 78.8#
154 182.4 51.0 76.4#

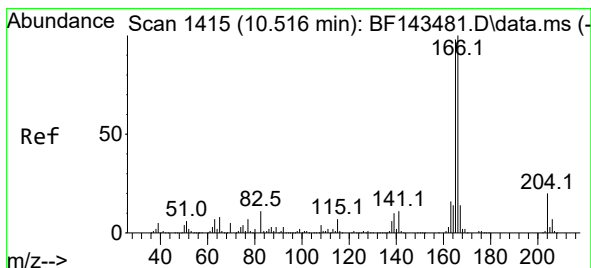
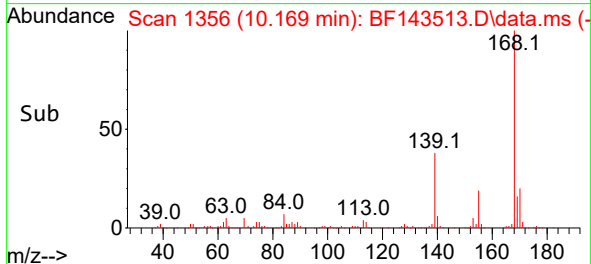
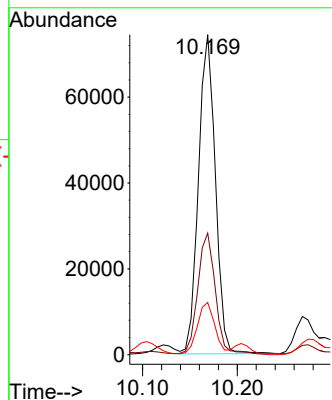
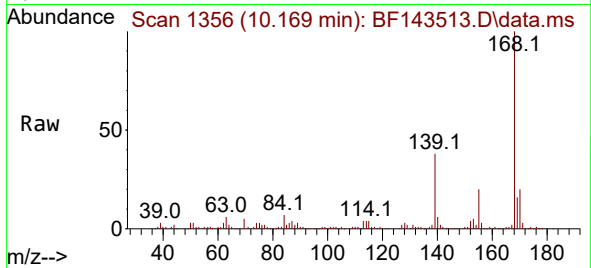




#55
Dibenzenofuran
Concen: 4.754 ng
RT: 10.169 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

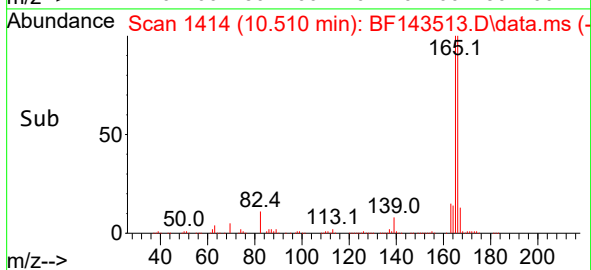
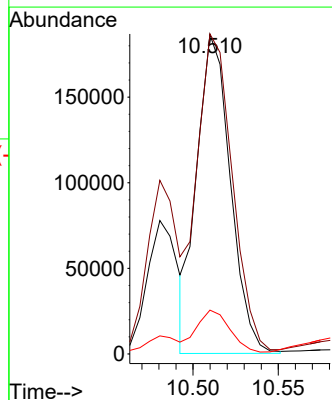
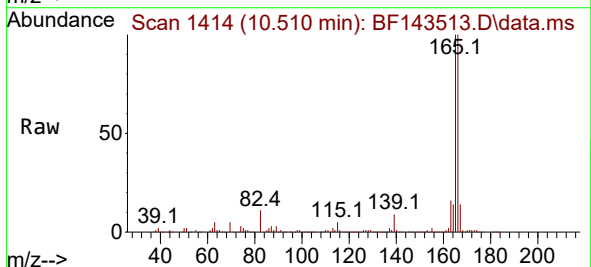
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

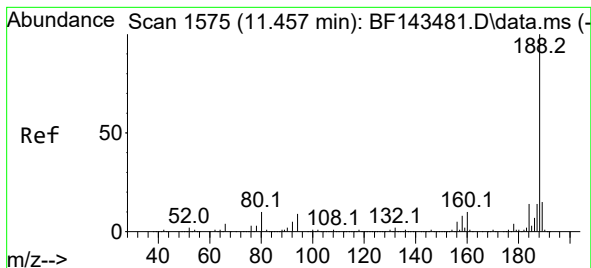
Tgt Ion:168 Resp: 92324
Ion Ratio Lower Upper
168 100
139 38.0 29.8 44.6
169 16.3 10.8 16.2#



#58
Fluorene
Concen: 17.039 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:166 Resp: 254691
Ion Ratio Lower Upper
166 100
165 100.1 78.3 117.5
167 13.7 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.451 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

Instrument :

BNA_F

ClientSampleId :

MW-11C-081825

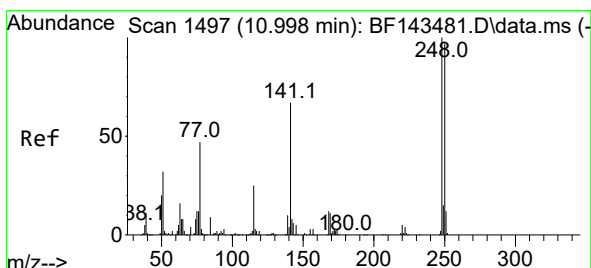
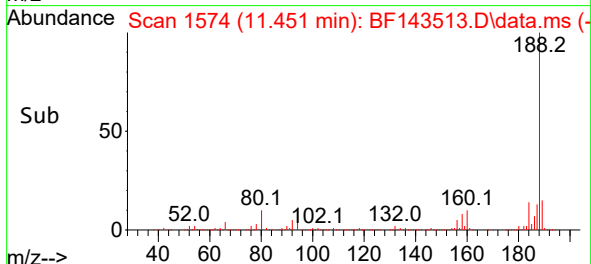
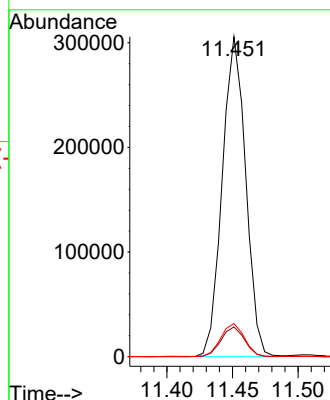
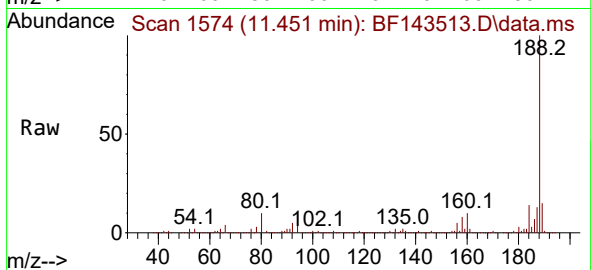
Tgt Ion:188 Resp: 379796

Ion Ratio Lower Upper

188 100

94 9.3 7.4 11.2

80 10.4 8.2 12.4



#67

4-Bromophenyl-phenylether

Concen: 4.458 ng

RT: 10.751 min Scan# 1455

Delta R.T. -0.247 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

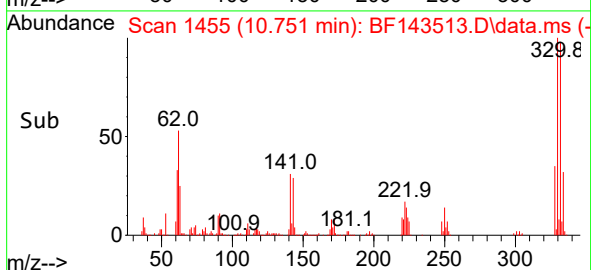
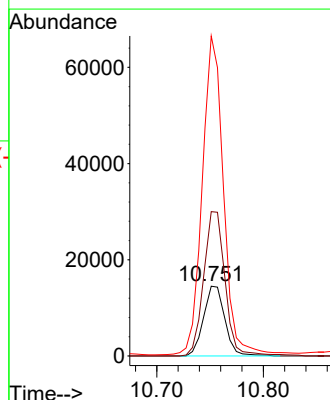
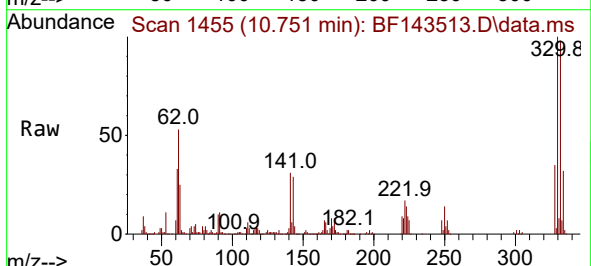
Tgt Ion:248 Resp: 20202

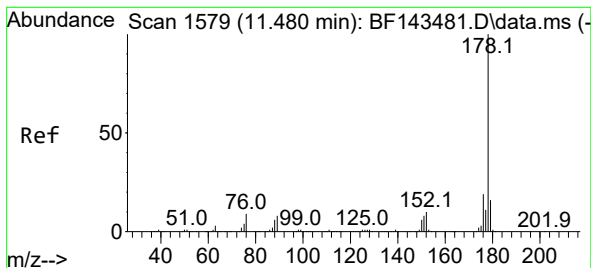
Ion Ratio Lower Upper

248 100

250 206.8 77.8 116.8#

141 458.7 54.0 81.0#





#71

Phenanthrene

Concen: 22.459 ng

RT: 11.475 min Scan# 1578

Delta R.T. -0.006 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

Instrument :

BNA_F

ClientSampleId :

MW-11C-081825

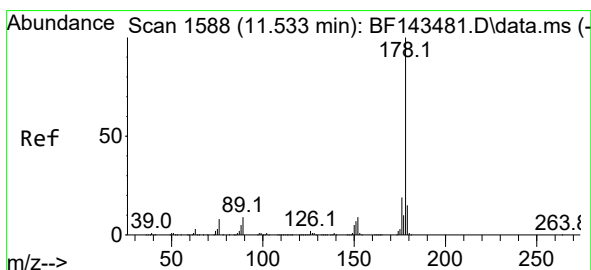
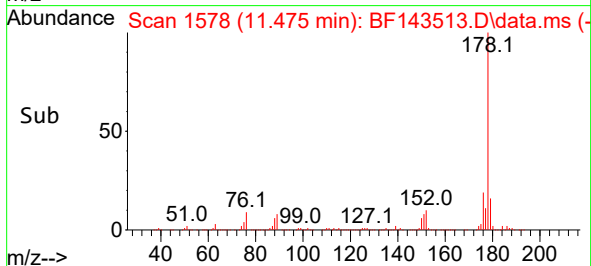
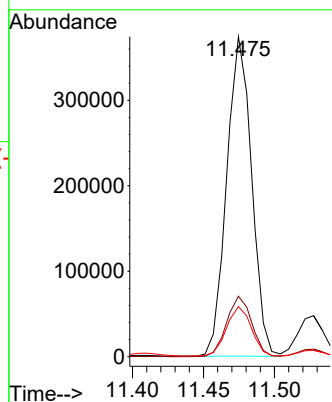
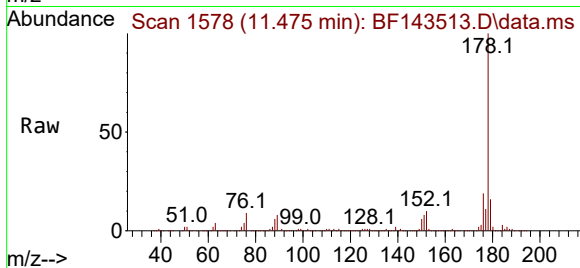
Tgt Ion:178 Resp: 456787

Ion Ratio Lower Upper

178 100

176 18.9 15.5 23.3

179 15.7 12.5 18.7



#72

Anthracene

Concen: 3.112 ng

RT: 11.528 min Scan# 1587

Delta R.T. -0.006 min

Lab File: BF143513.D

Acq: 21 Aug 2025 05:18

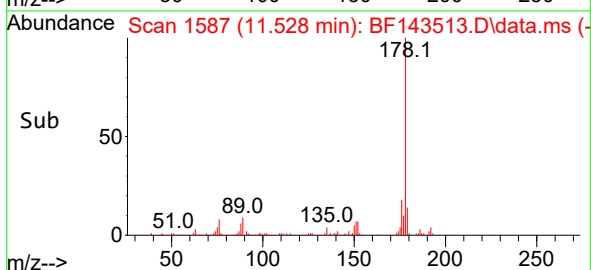
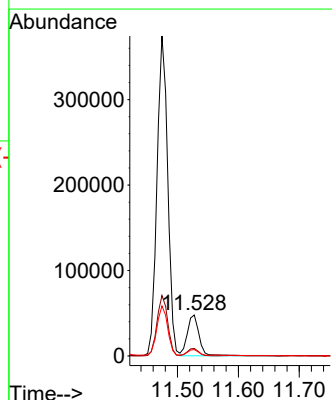
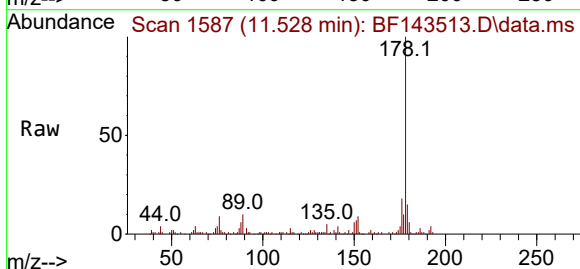
Tgt Ion:178 Resp: 64117

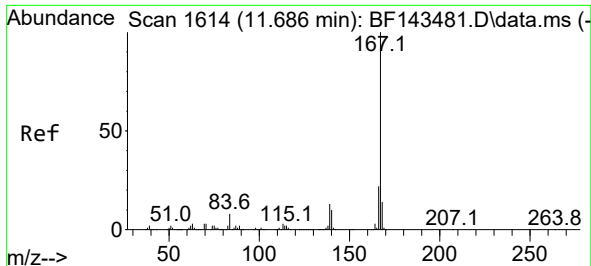
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

179 15.5 12.3 18.5

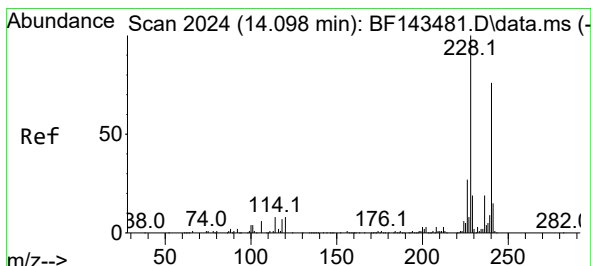
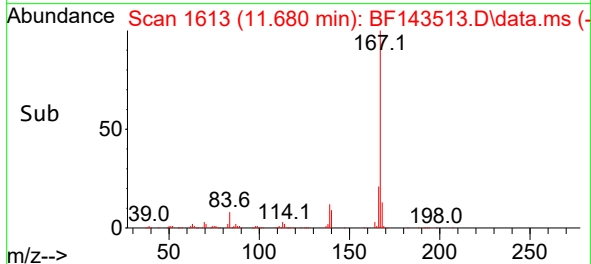
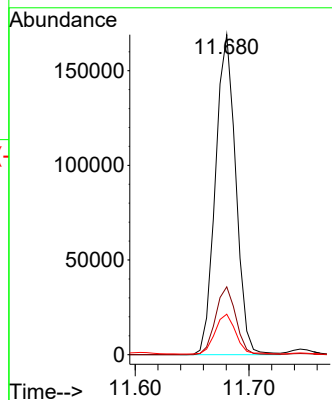
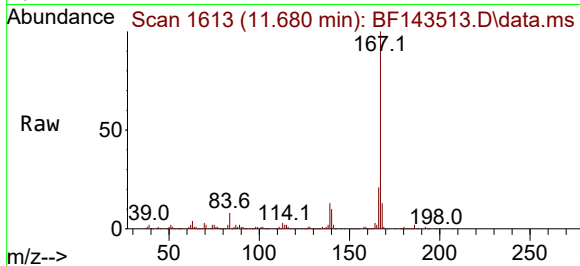




#73
Carbazole
Concen: 12.478 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

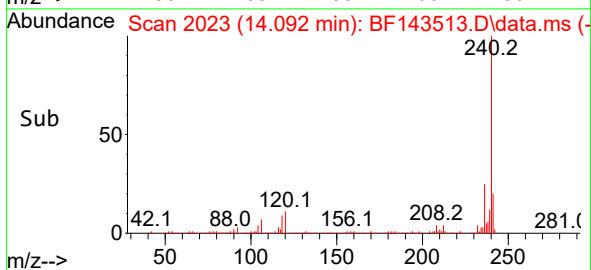
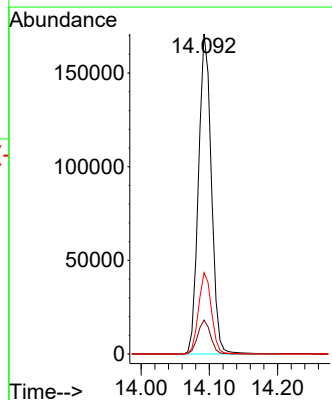
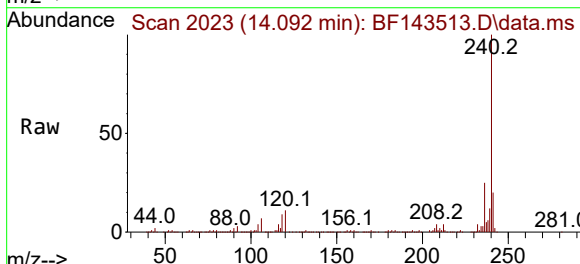
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

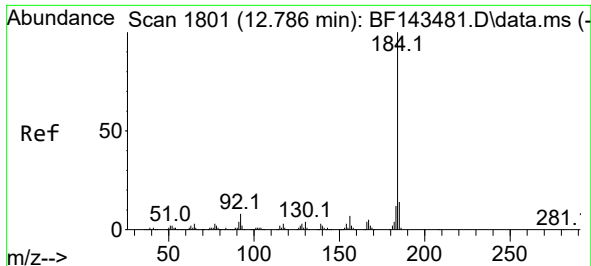
Tgt Ion:167 Resp: 210655
Ion Ratio Lower Upper
167 100
166 21.2 17.3 25.9
139 12.7 10.0 15.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Tgt Ion:240 Resp: 223331
Ion Ratio Lower Upper
240 100
120 10.6 8.6 12.8
236 25.4 20.4 30.6

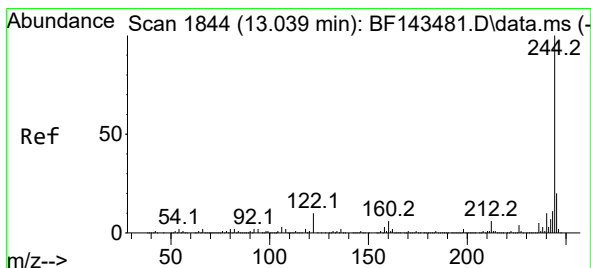
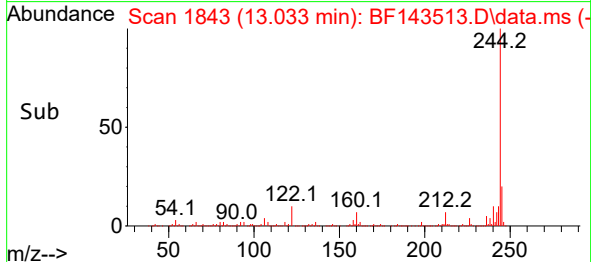
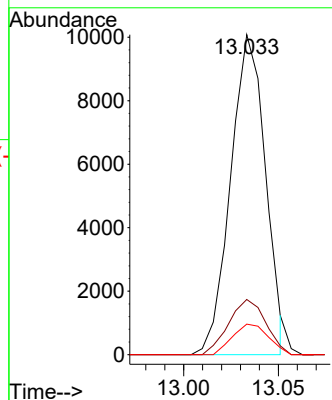
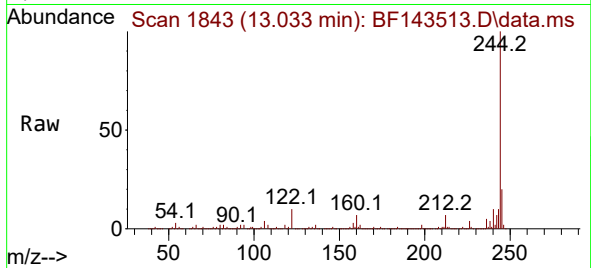




#77
Benzidine
Concen: 2.371 ng
RT: 13.033 min Scan# 1843
Delta R.T. 0.247 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

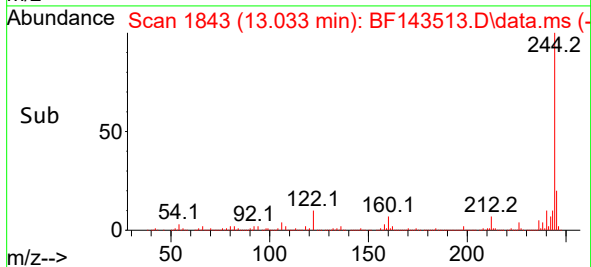
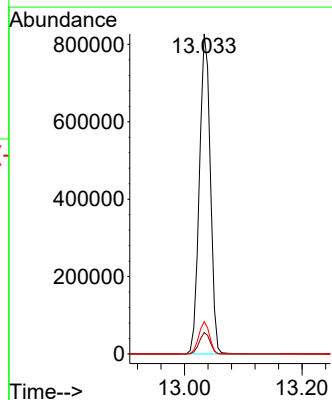
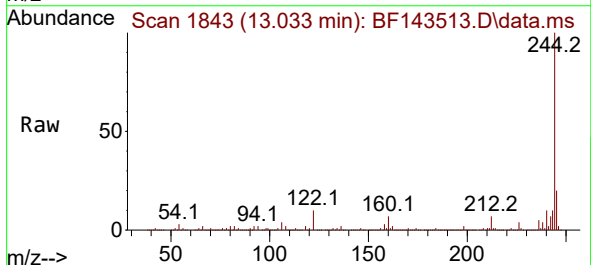
Instrument :
BNA_F
ClientSampleId :
MW-11C-081825

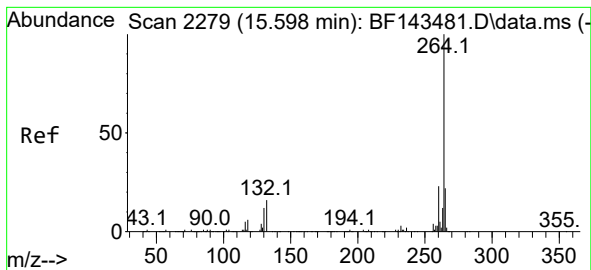
Tgt Ion:184 Resp: 12898
Ion Ratio Lower Upper
184 100
185 17.3 11.3 16.9#
183 9.5 9.5 14.3



#79
Terphenyl-d14
Concen: 83.488 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

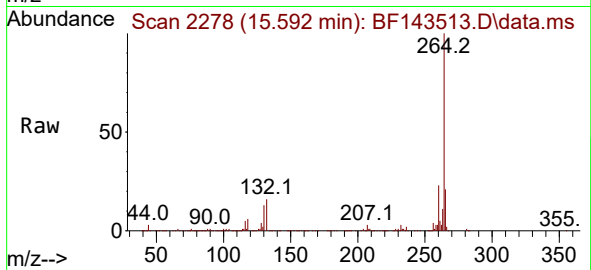
Tgt Ion:244 Resp: 1068479
Ion Ratio Lower Upper
244 100
212 6.7 5.2 7.8
122 10.1 7.9 11.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143513.D
Acq: 21 Aug 2025 05:18

Instrument :
BNA_F
ClientSampleId :
MW-11C-081825



Tgt Ion:264 Resp: 273794
Ion Ratio Lower Upper
264 100
260 23.0 18.7 28.1
265 21.1 17.6 26.4

