

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070925\
 Data File : BF143063.D
 Acq On : 09 Jul 2025 18:31
 Operator : RC/JU
 Sample : Q2487-13 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G2(0-6)

Quant Time: Jul 10 00:56:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

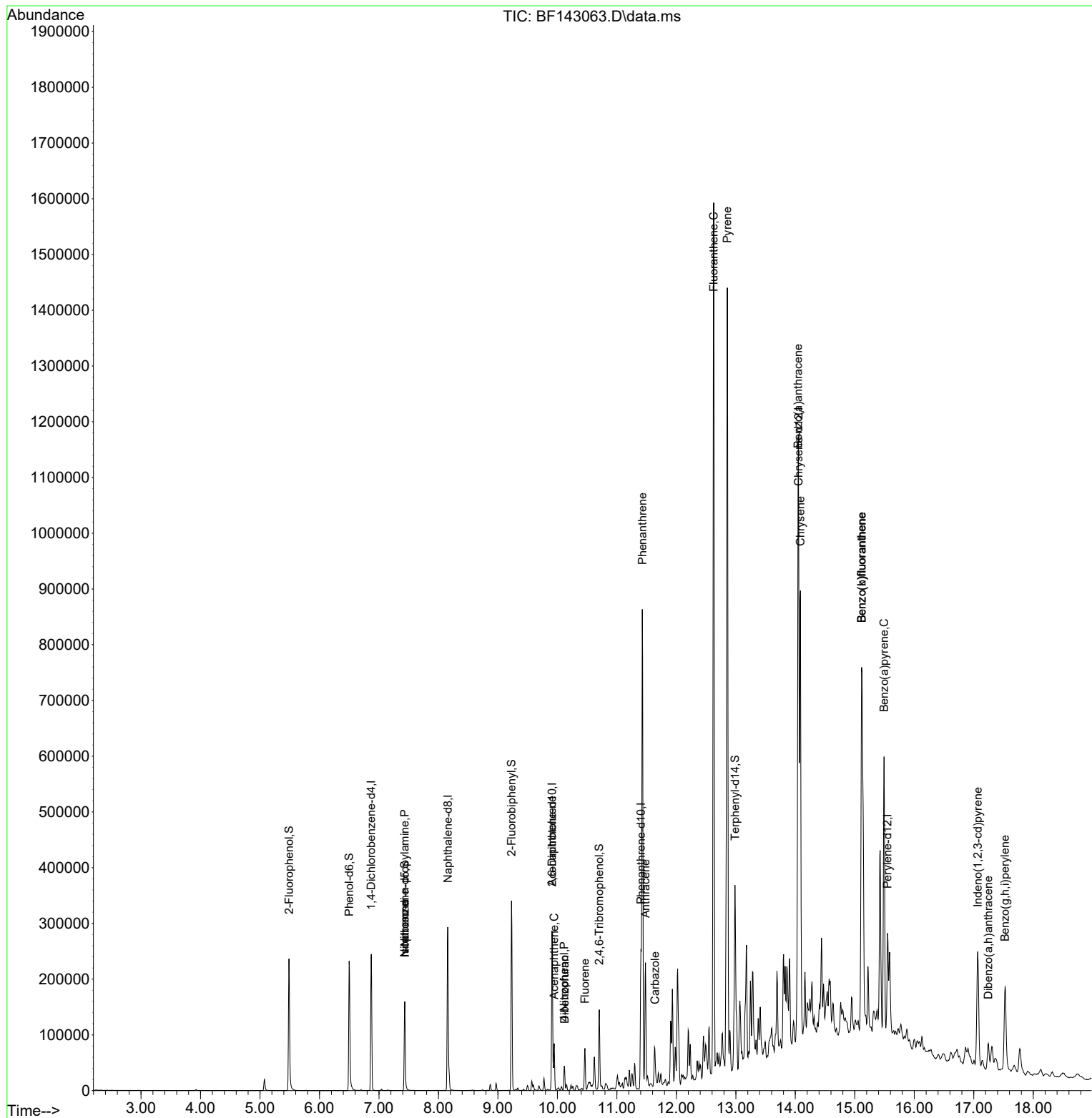
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	53547	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	191945	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	87788	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	125484	20.000	ng	0.00
76) Chrysene-d12	14.057	240	131113	20.000	ng	0.00
86) Perylene-d12	15.551	264	102046	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	101567	31.580	ng	0.00
7) Phenol-d6	6.498	99	120208	31.680	ng	-0.01
23) Nitrobenzene-d5	7.433	82	71601	20.461	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	20016	22.156	ng	-0.01
45) 2-Fluorobiphenyl	9.227	172	152568	22.830	ng	-0.02
79) Terphenyl-d14	12.986	244	146109	15.397	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.433	70	9263	4.197	ng	# 76
25) Isophorone	7.433	82	71608	12.756	ng	# 62
51) 2,6-Dinitrotoluene	9.910	165	11459	9.182	ng	# 26
52) Acenaphthene	9.945	154	25387	4.857	ng	95
55) Dibenzofuran	10.122	168	22470	2.998	ng	98
56) 4-Nitrophenol	10.116	139	8662	9.209	ng	# 10
58) Fluorene	10.463	166	29648	5.065	ng	99
71) Phenanthrene	11.427	178	471057	69.299	ng	100
72) Anthracene	11.480	178	122517	17.574	ng	100
73) Carbazole	11.639	167	37240	6.190	ng	99
75) Fluoranthene	12.627	202	947686	146.902	ng	100
78) Pyrene	12.857	202	854954	69.566	ng	98
81) Benzo(a)anthracene	14.045	228	578291	65.381	ng	98
83) Chrysene	14.086	228	397747	50.395	ng	96
87) Indeno(1,2,3-cd)pyrene	17.068	276	149643	19.252	ng	# 94
88) Benzo(b)fluoranthene	15.115	252	627825	106.324	ng	97
89) Benzo(k)fluoranthene	15.115	252	627825	113.645	ng	97
90) Benzo(a)pyrene	15.492	252	302708	53.065	ng	98
91) Dibenzo(a,h)anthracene	17.245	278	31205	4.941	ng	93
92) Benzo(g,h,i)perylene	17.527	276	137189	21.784	ng	98

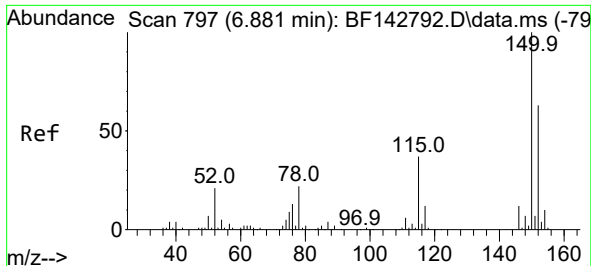
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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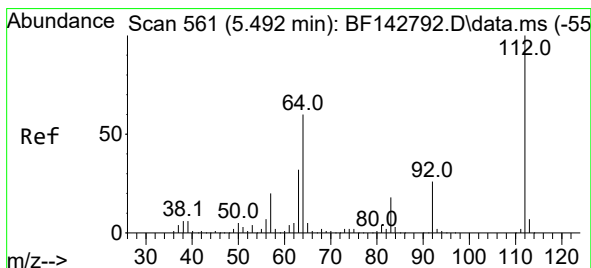
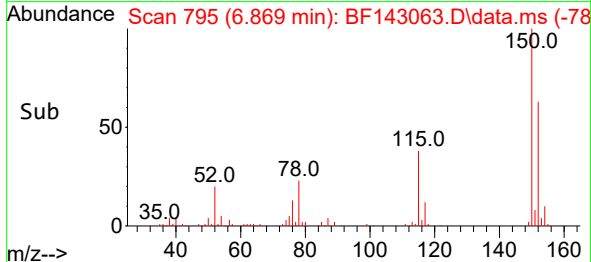
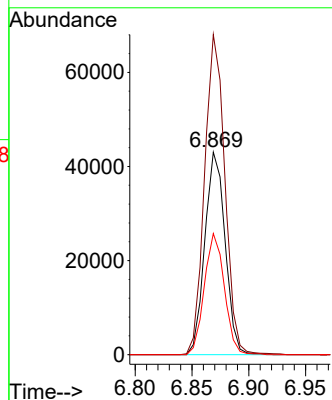
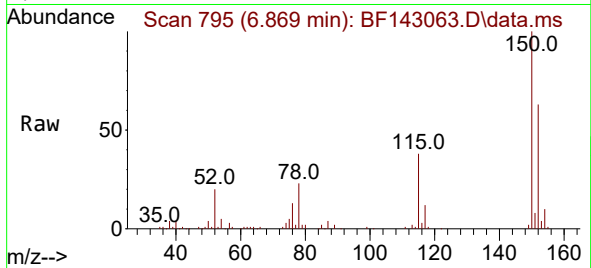




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

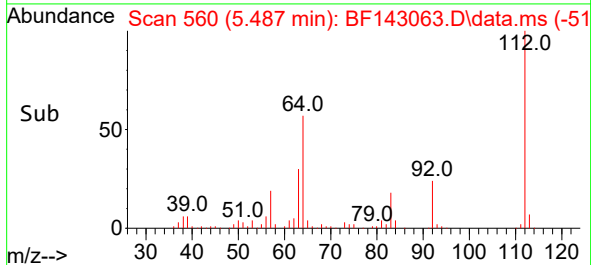
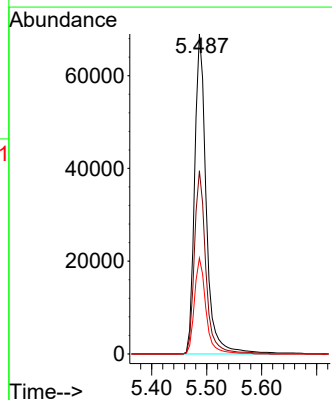
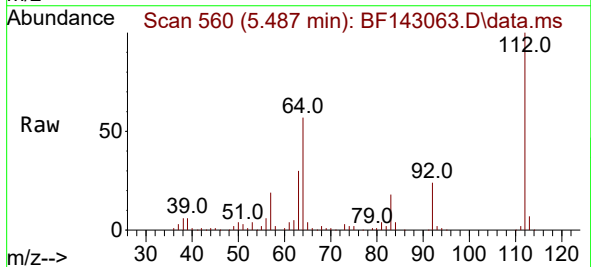
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

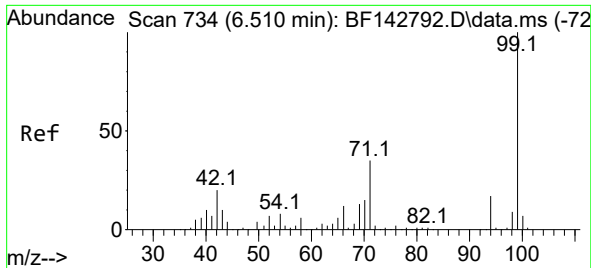
Tgt Ion:152 Resp: 53547
Ion Ratio Lower Upper
152 100
150 157.9 127.2 190.8
115 59.8 46.6 69.8



#5
2-Fluorophenol
Concen: 31.580 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.005 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:112 Resp: 101567
Ion Ratio Lower Upper
112 100
64 57.3 48.2 72.2
63 30.0 25.7 38.5

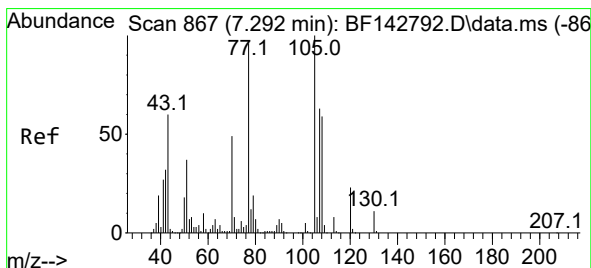
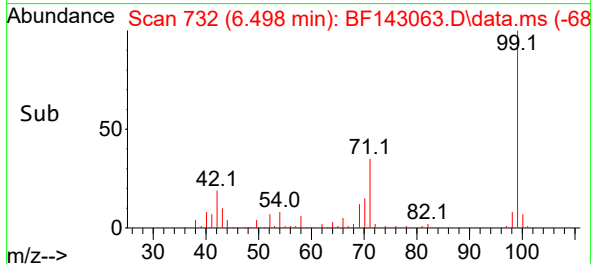
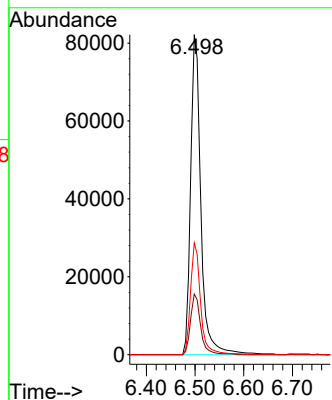
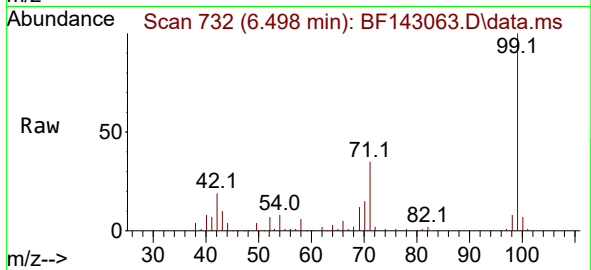




#7
Phenol-d6
Concen: 31.680 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

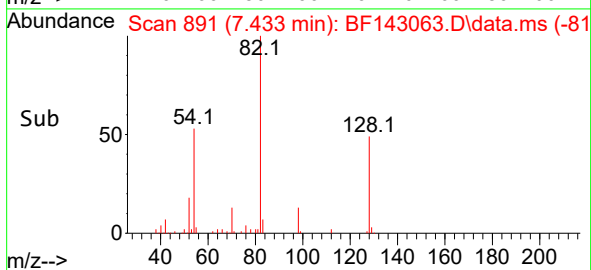
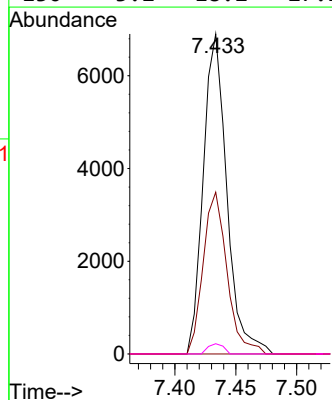
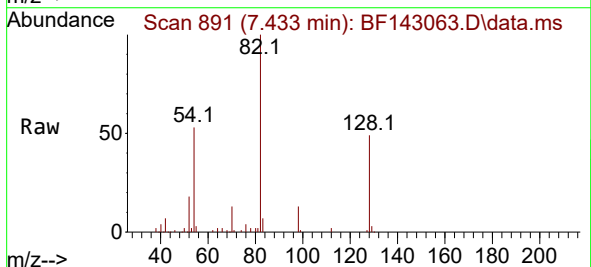
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

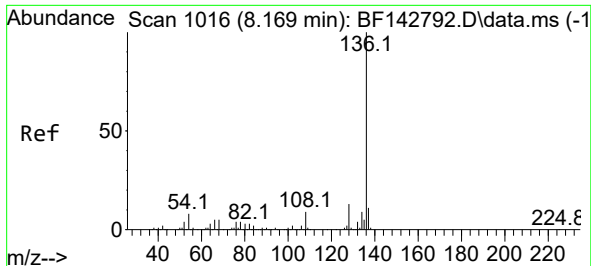
Tgt Ion: 99 Resp: 120208
Ion Ratio Lower Upper
99 100
42 19.0 15.9 23.9
71 35.0 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 4.197 ng
RT: 7.433 min Scan# 891
Delta R.T. 0.141 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion: 70 Resp: 9263
Ion Ratio Lower Upper
70 100
42 50.5 52.1 78.1#
101 0.0 8.2 12.2#
130 3.2 18.2 27.2#

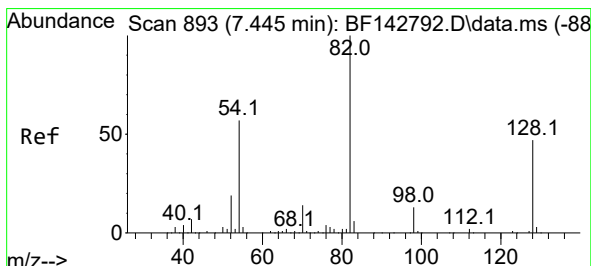
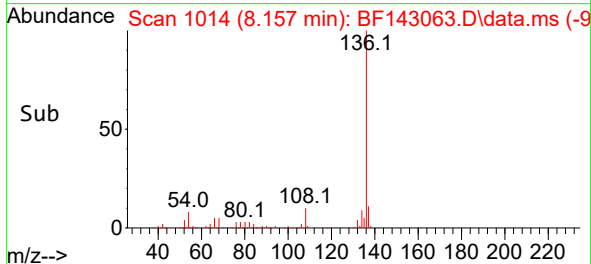
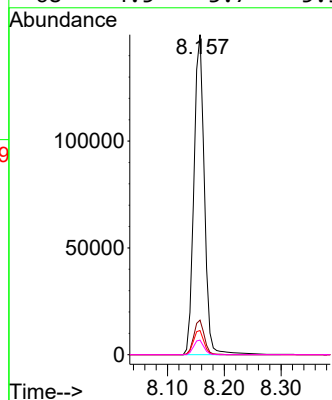
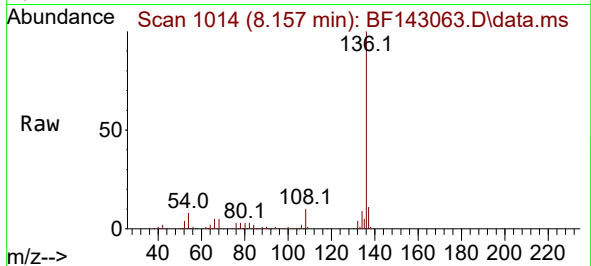




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

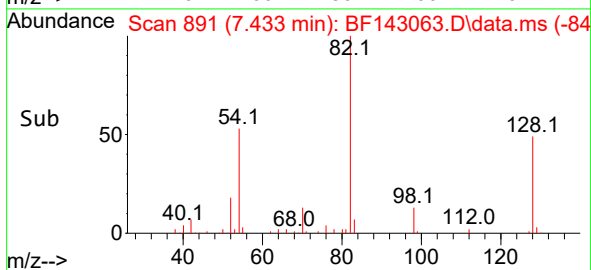
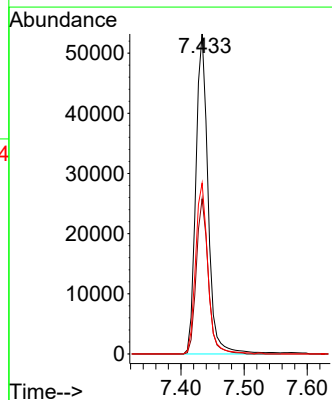
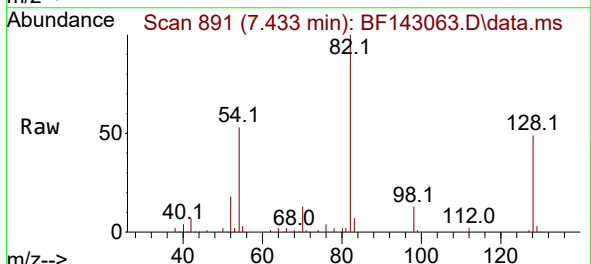
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

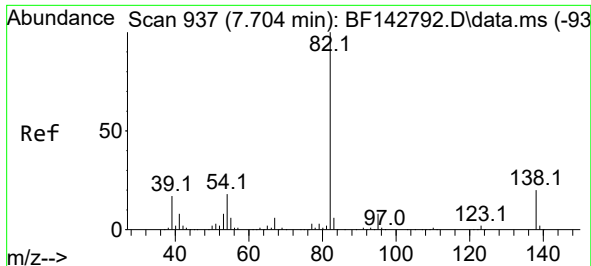
Tgt Ion	136	Resp: Lower	191945 Upper
136	100		
137	10.8	8.4	12.6
54	7.5	6.3	9.5
68	4.5	3.7	5.5



#23
Nitrobenzene-d5
Concen: 20.461 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion: 82	Resp: 71601
Ion Ratio	Lower Upper
82 100	
128 48.5	37.7 56.5
54 53.4	45.7 68.5

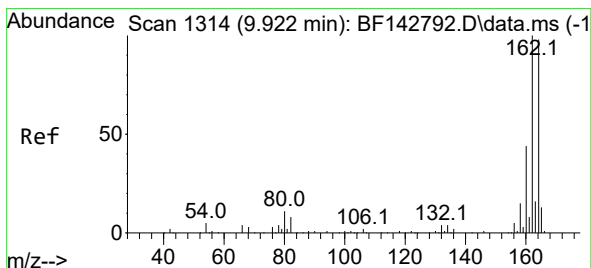
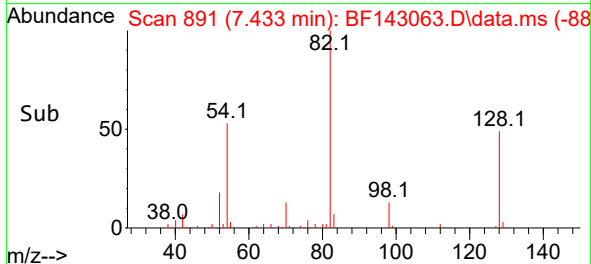
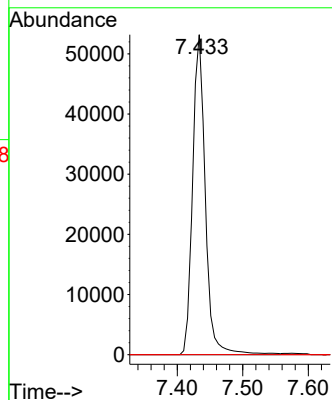
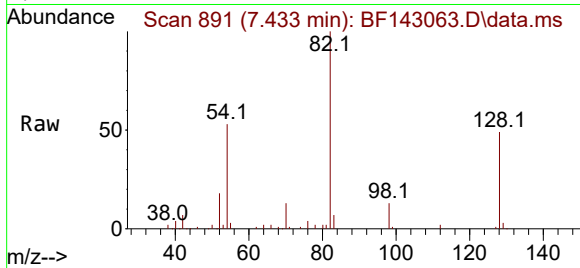




#25
Isophorone
Concen: 12.756 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.271 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

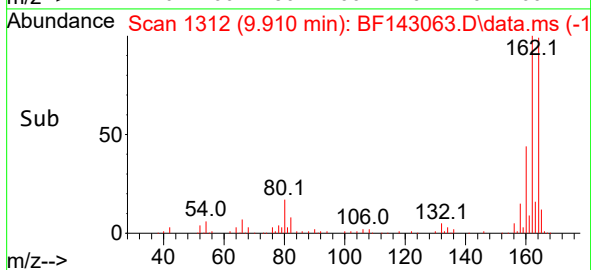
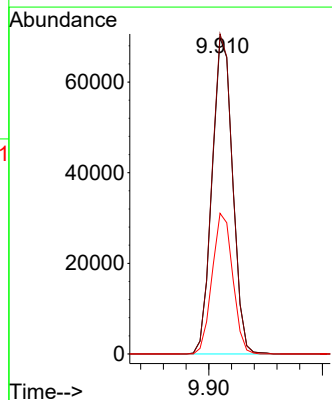
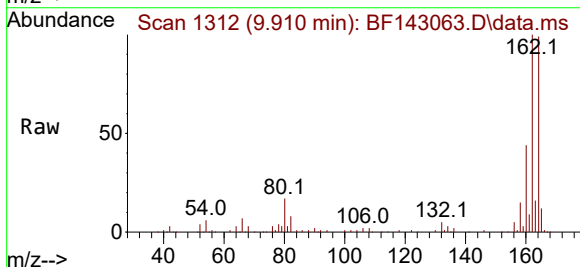
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

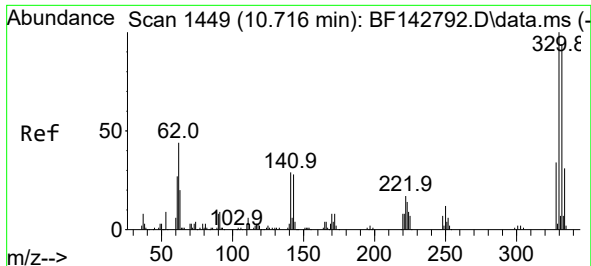
Tgt Ion: 82 Resp: 71608
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:164 Resp: 87788
Ion Ratio Lower Upper
164 100
162 101.2 81.8 122.8
160 44.5 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 22.156 ng

RT: 10.704 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

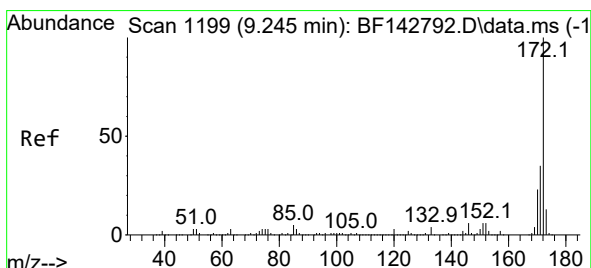
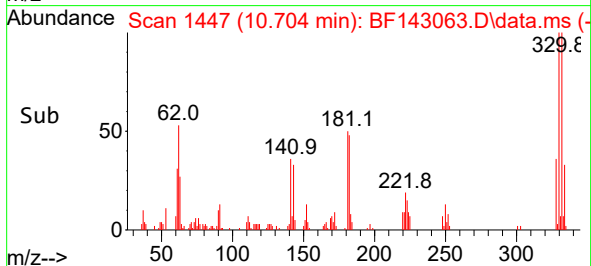
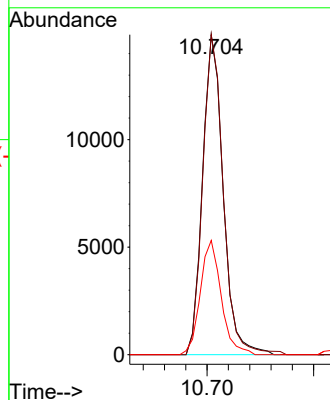
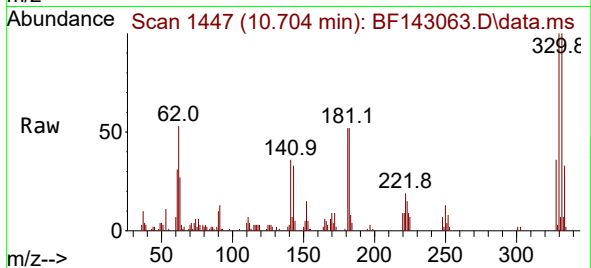
Tgt Ion:330 Resp: 20016

Ion Ratio Lower Upper

330 100

332 99.7 75.0 112.6

141 36.3 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 22.830 ng

RT: 9.227 min Scan# 1196

Delta R.T. -0.018 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

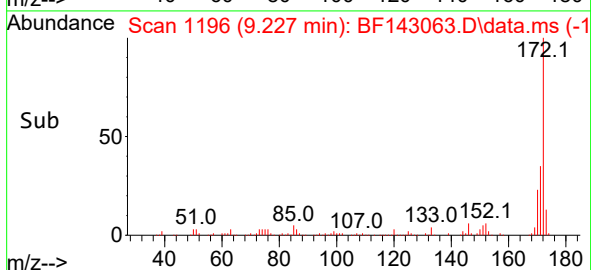
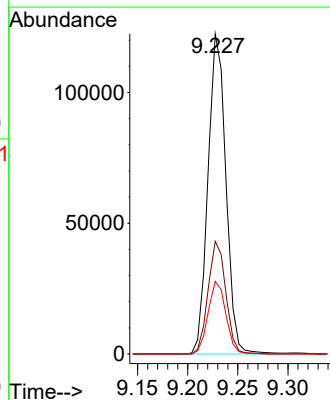
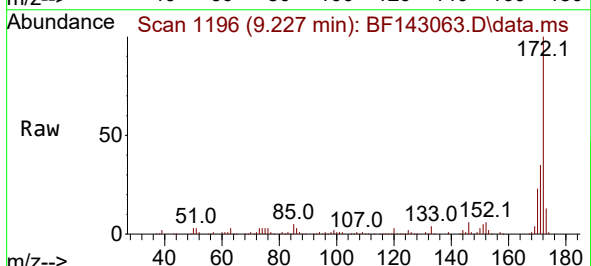
Tgt Ion:172 Resp: 152568

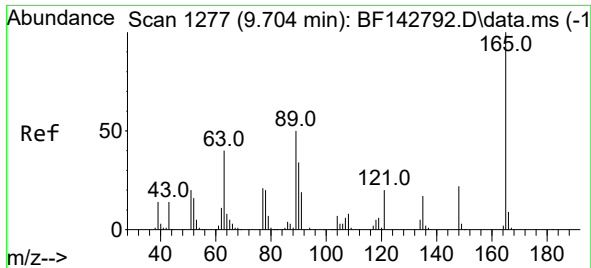
Ion Ratio Lower Upper

172 100

171 35.2 28.2 42.4

170 22.7 18.5 27.7

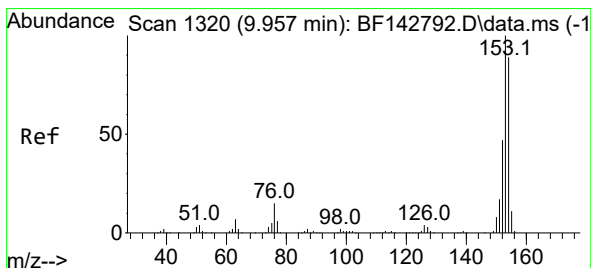
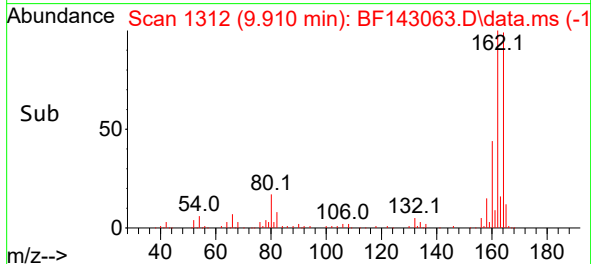
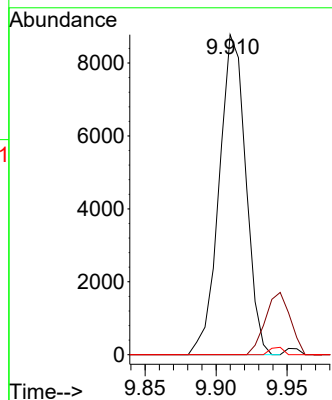
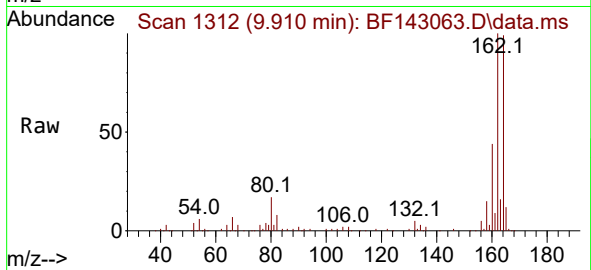




#51
2,6-Dinitrotoluene
Concen: 9.182 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

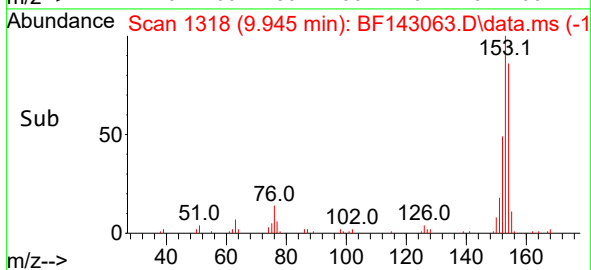
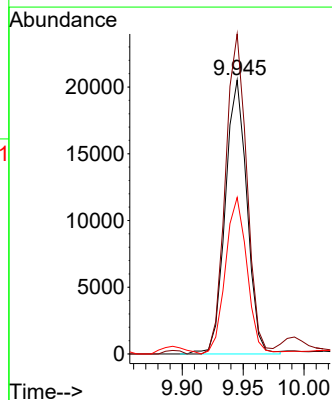
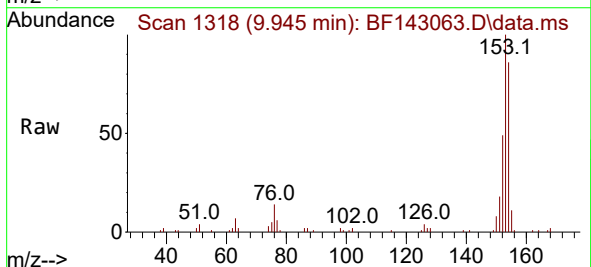
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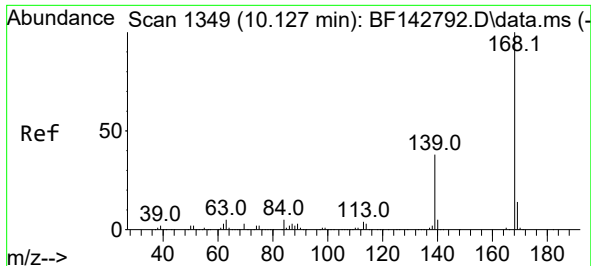
Tgt Ion:165 Resp: 11459
Ion Ratio Lower Upper
165 100
63 0.0 44.2 66.4#
89 0.0 39.8 59.8#



#52
Acenaphthene
Concen: 4.857 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:154 Resp: 25387
Ion Ratio Lower Upper
154 100
153 116.8 90.0 135.0
152 57.1 41.9 62.9





#55

Dibenzenofuran

Concen: 2.998 ng

RT: 10.122 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

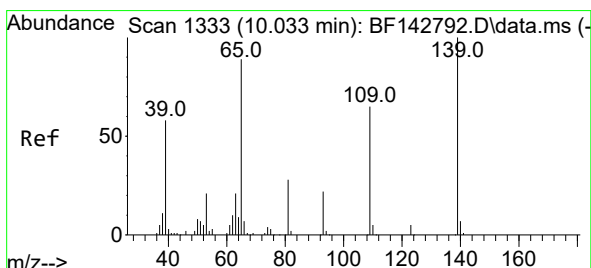
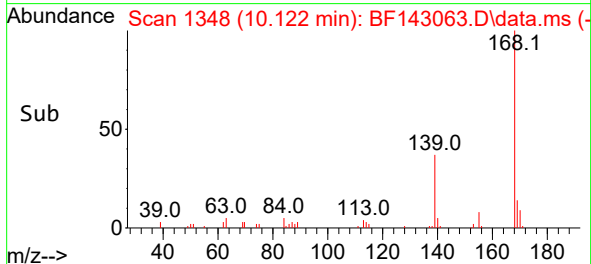
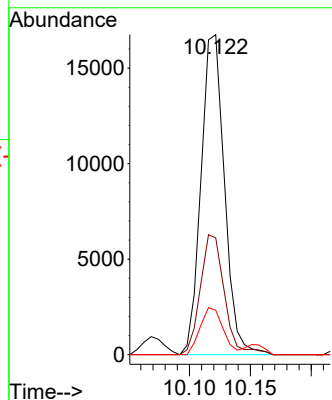
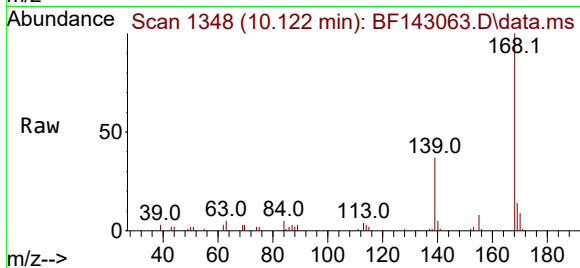
Tgt Ion:168 Resp: 22470

Ion Ratio Lower Upper

168 100

139 36.5 30.2 45.4

169 13.9 10.8 16.2



#56

4-Nitrophenol

Concen: 9.209 ng

RT: 10.116 min Scan# 1347

Delta R.T. 0.082 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

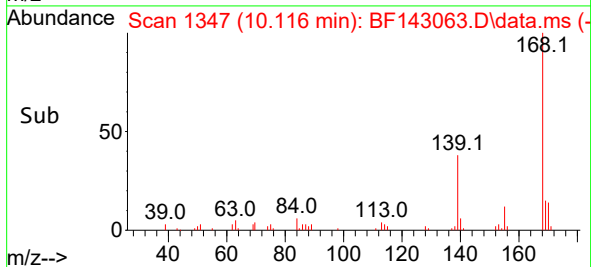
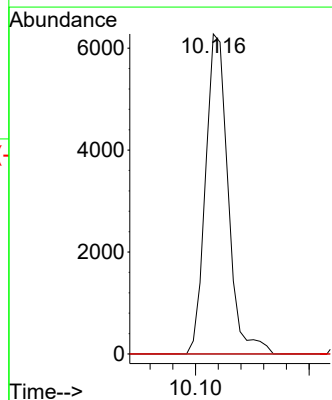
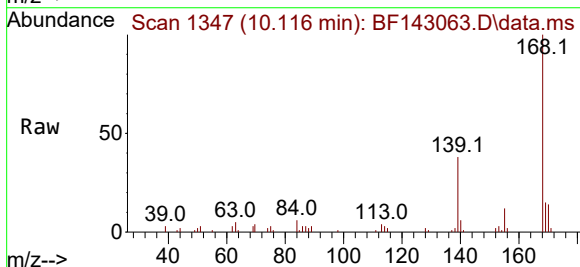
Tgt Ion:139 Resp: 8662

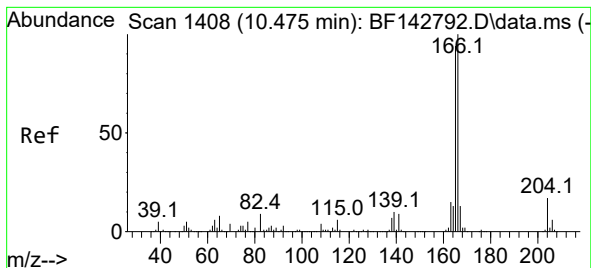
Ion Ratio Lower Upper

139 100

109 0.0 44.7 84.7#

65 0.0 69.8 109.8#

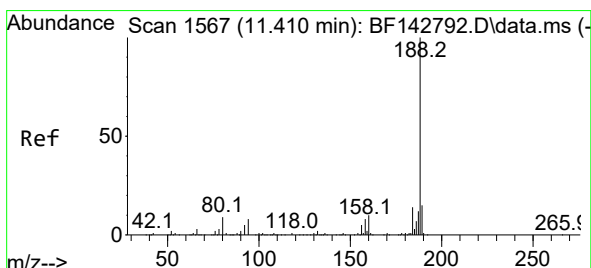
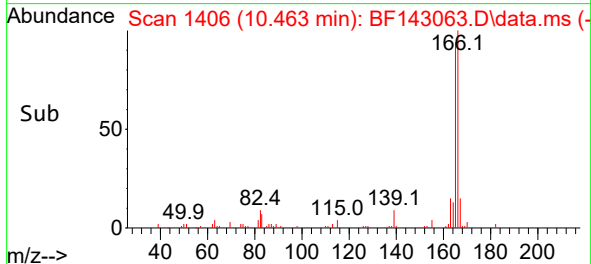
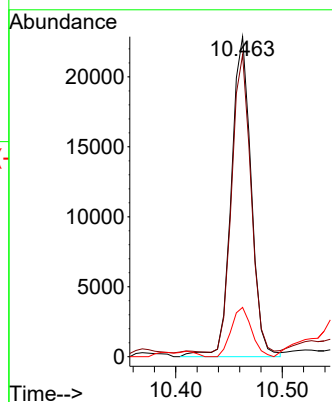
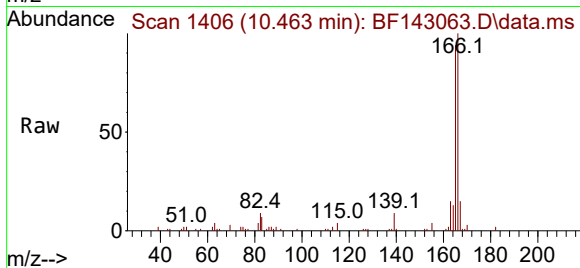




#58
Fluorene
Concen: 5.065 ng
RT: 10.463 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

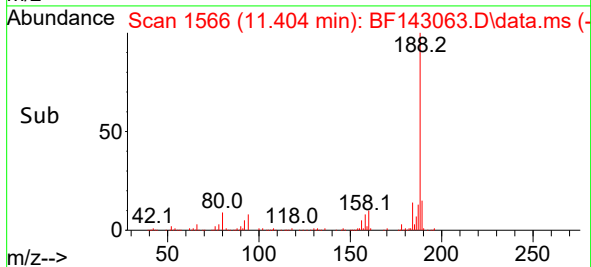
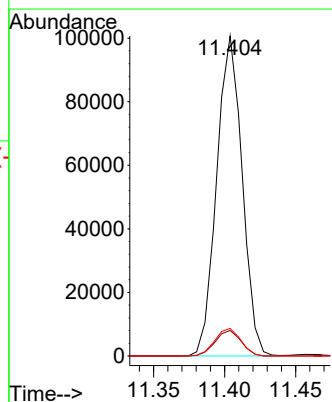
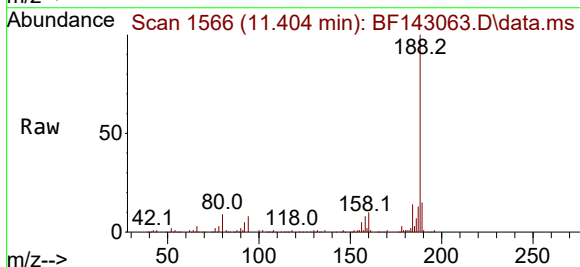
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

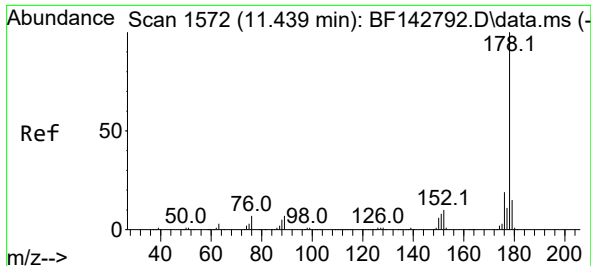
Tgt Ion:166 Resp: 29648
Ion Ratio Lower Upper
166 100
165 94.3 75.2 112.8
167 15.4 10.6 15.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:188 Resp: 125484
Ion Ratio Lower Upper
188 100
94 8.0 6.7 10.1
80 8.6 6.9 10.3

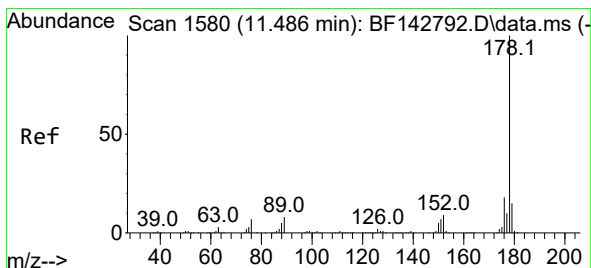
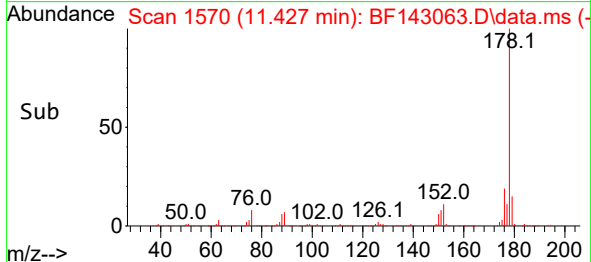
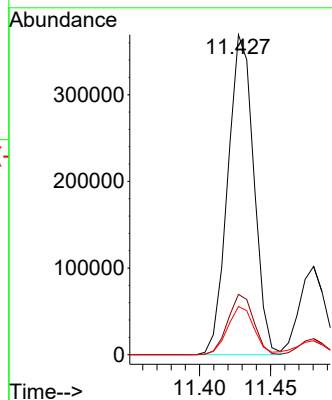
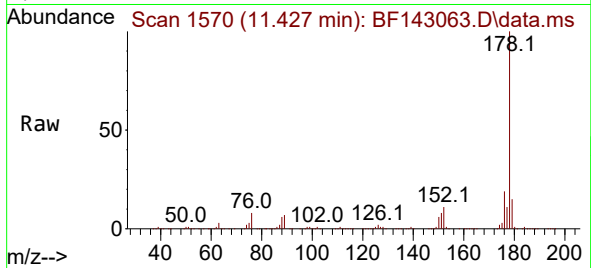




#71
Phenanthrene
Concen: 69.299 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

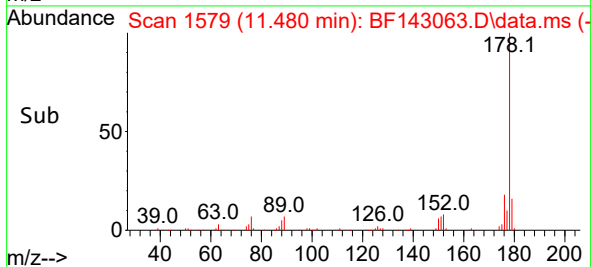
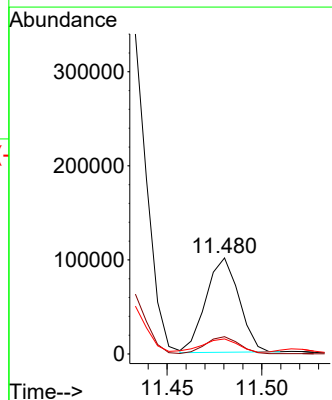
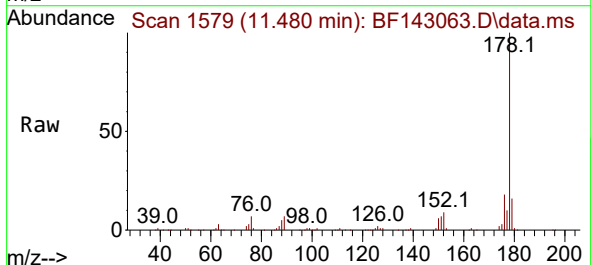
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

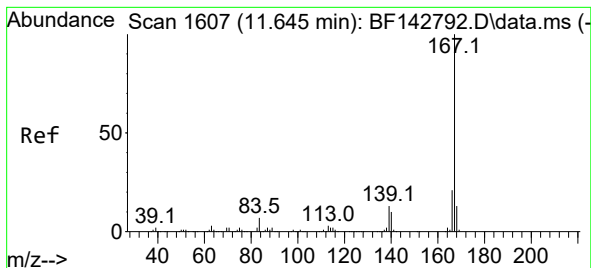
Tgt Ion:178 Resp: 471057
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.0 12.0 18.0



#72
Anthracene
Concen: 17.574 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:178 Resp: 122517
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 15.7 12.4 18.6





#73

Carbazole

Concen: 6.190 ng

RT: 11.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

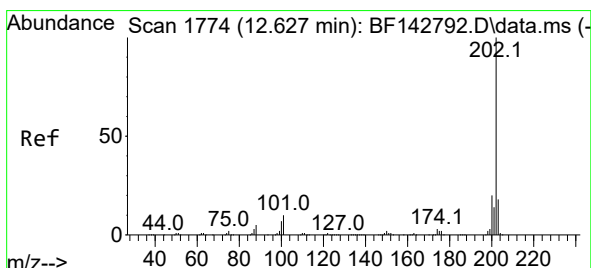
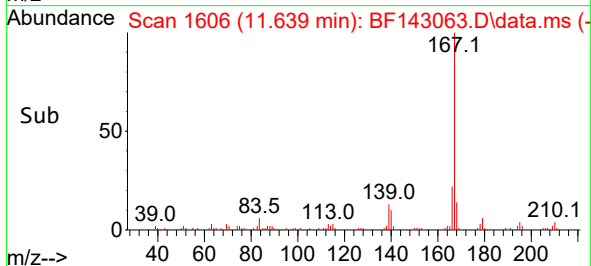
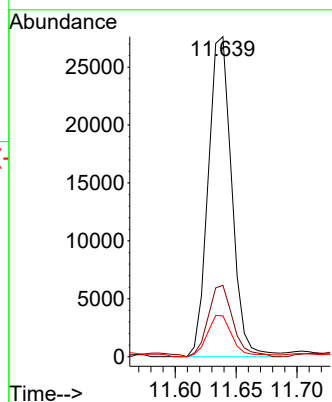
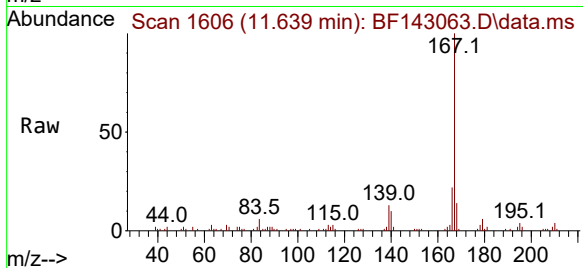
Tgt Ion:167 Resp: 37240

Ion Ratio Lower Upper

167 100

166 22.3 17.0 25.4

139 12.8 10.2 15.2



#75

Fluoranthene

Concen: 146.902 ng

RT: 12.627 min Scan# 1774

Delta R.T. -0.000 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

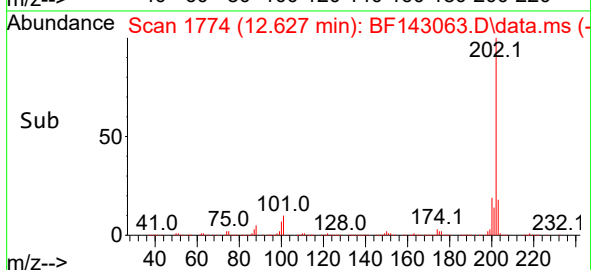
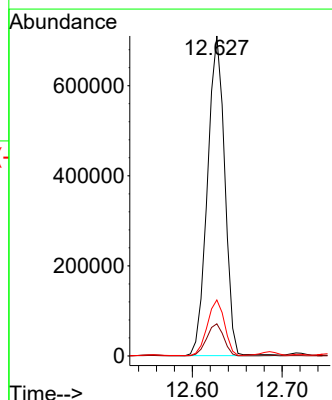
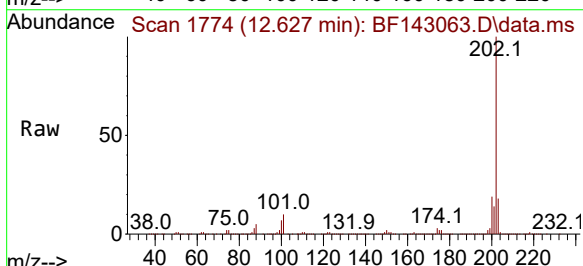
Tgt Ion:202 Resp: 947686

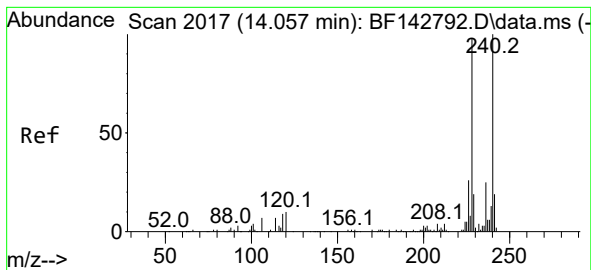
Ion Ratio Lower Upper

202 100

101 10.0 0.0 29.7

203 17.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

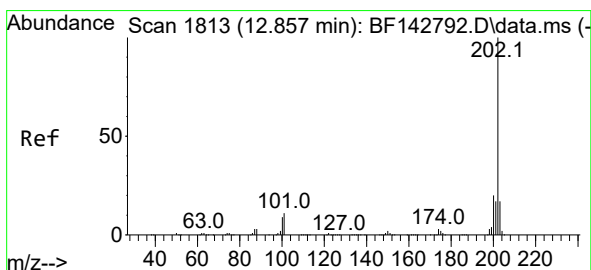
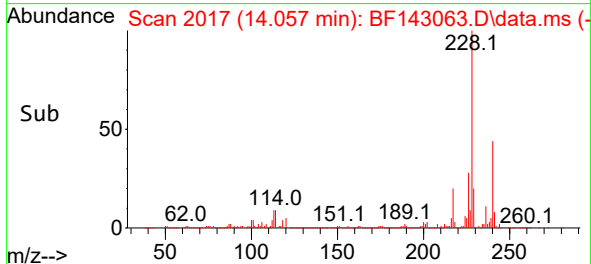
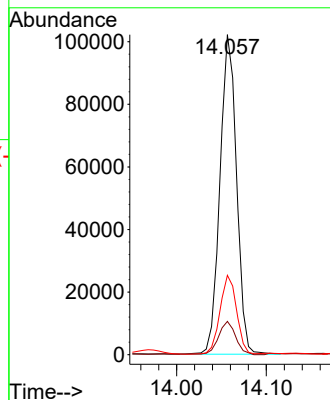
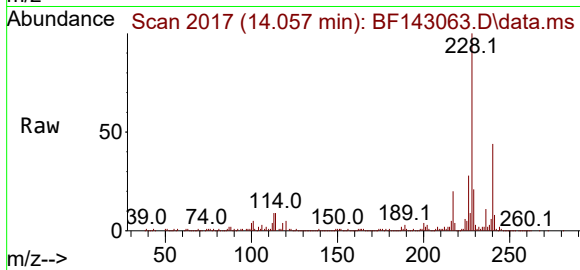
Tgt Ion:240 Resp: 131113

Ion Ratio Lower Upper

240 100

120 10.4 8.2 12.2

236 24.8 19.8 29.8



#78

Pyrene

Concen: 69.566 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.000 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

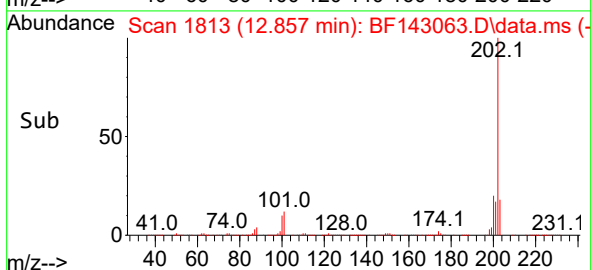
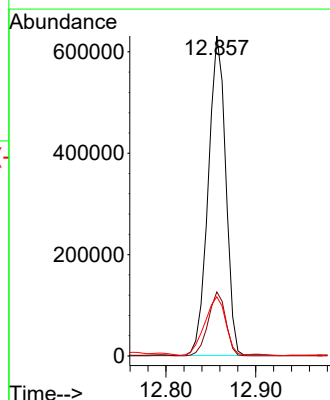
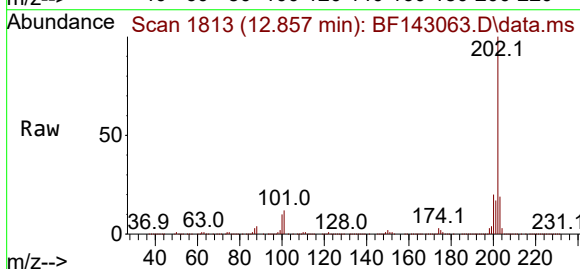
Tgt Ion:202 Resp: 854954

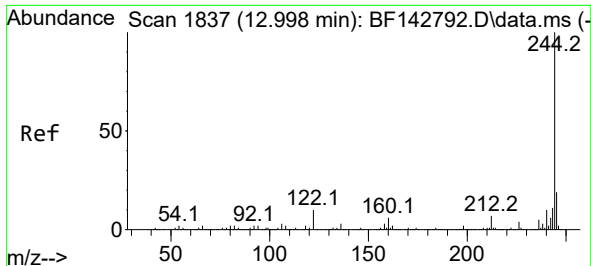
Ion Ratio Lower Upper

202 100

200 20.0 15.7 23.5

203 18.5 13.8 20.6

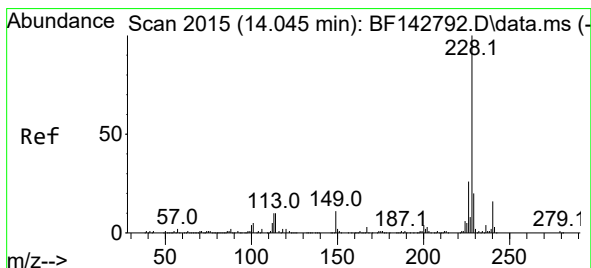
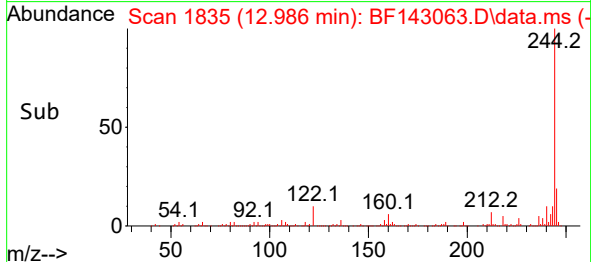
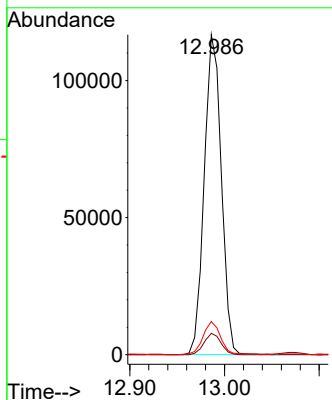
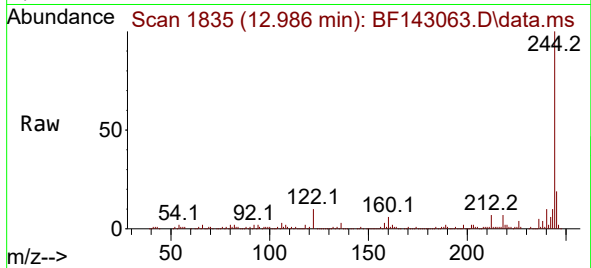




#79
 Terphenyl-d14
 Concen: 15.397 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF143063.D
 Acq: 09 Jul 2025 18:31

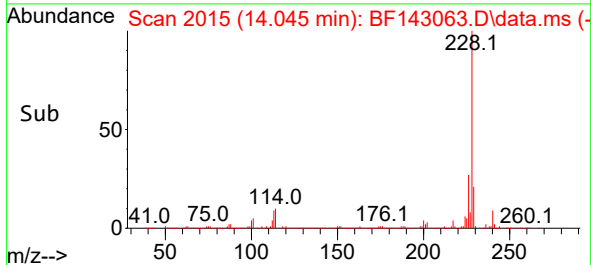
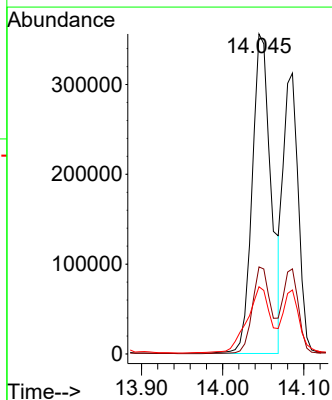
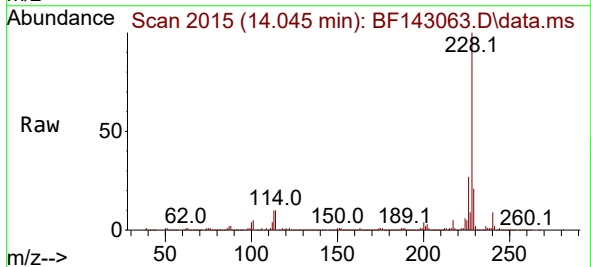
Instrument :
 BNA_F
 ClientSampleId :
 G2(0-6)

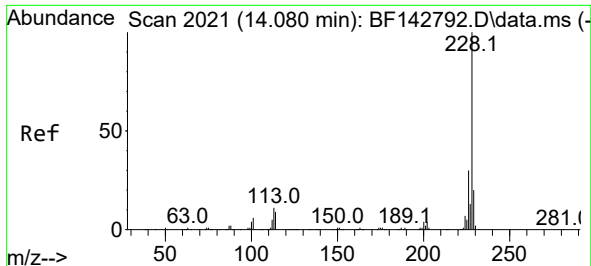
Tgt Ion:244 Resp: 146109
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.4 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 65.381 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. -0.000 min
 Lab File: BF143063.D
 Acq: 09 Jul 2025 18:31

Tgt Ion:228 Resp: 578291
 Ion Ratio Lower Upper
 228 100
 226 27.2 21.2 31.8
 229 21.0 15.6 23.4

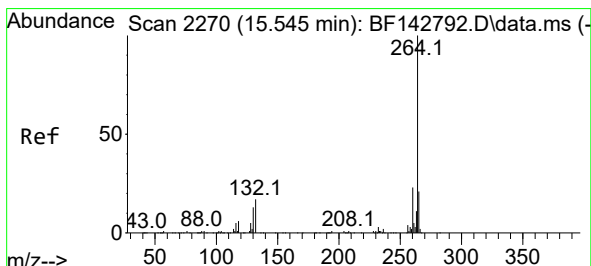
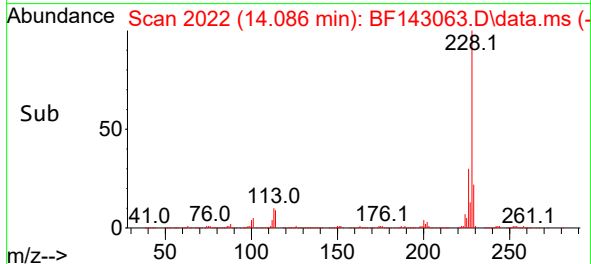
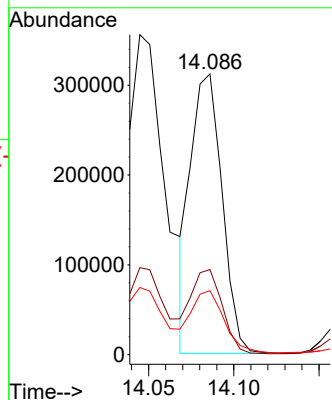
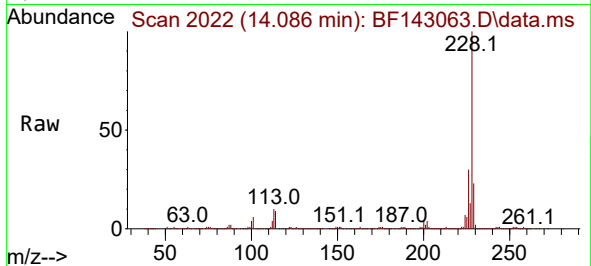




#83
Chrysene
Concen: 50.395 ng
RT: 14.086 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

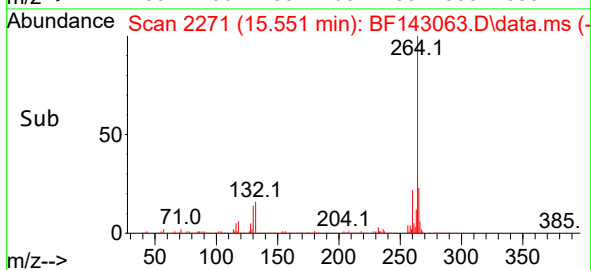
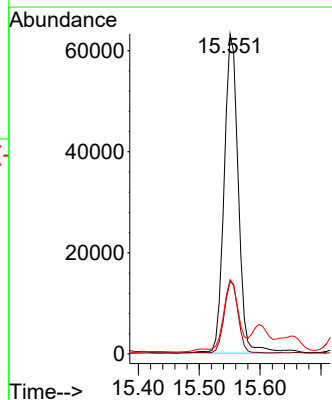
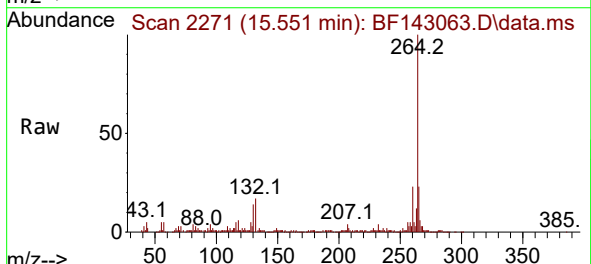
Instrument :
BNA_F
ClientSampleId :
G2(0-6)

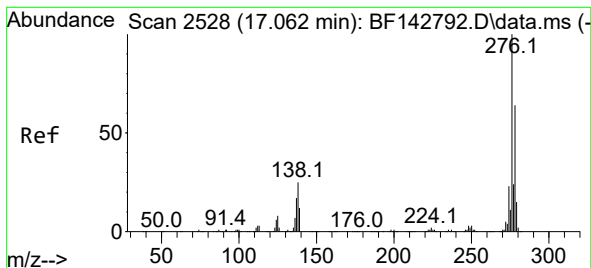
Tgt Ion:228 Resp: 397747
Ion Ratio Lower Upper
228 100
226 30.3 23.7 35.5
229 22.8 15.7 23.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2271
Delta R.T. 0.006 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:264 Resp: 102046
Ion Ratio Lower Upper
264 100
260 22.7 18.1 27.1
265 23.2 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 19.252 ng

RT: 17.068 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

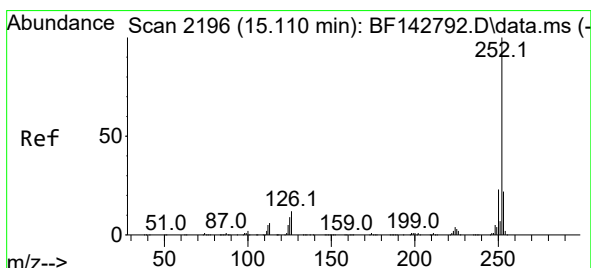
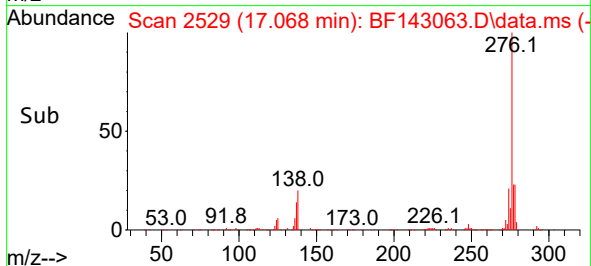
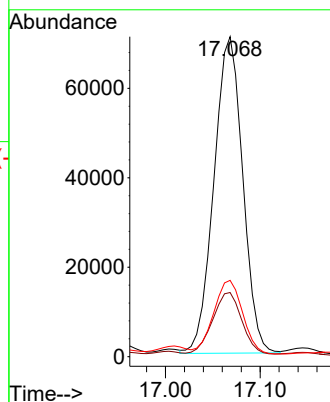
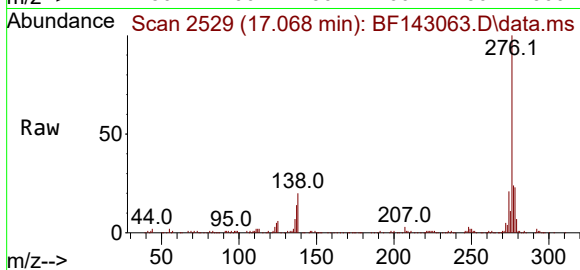
Tgt Ion:276 Resp: 149643

Ion Ratio Lower Upper

276 100

138 20.1 20.2 30.4#

277 23.4 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 106.324 ng

RT: 15.115 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

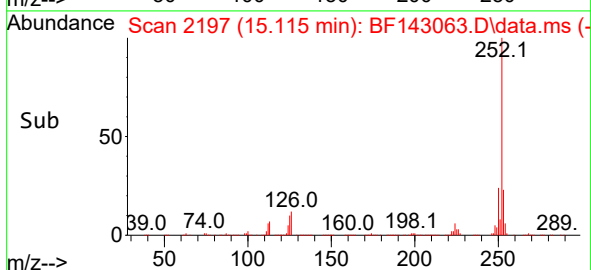
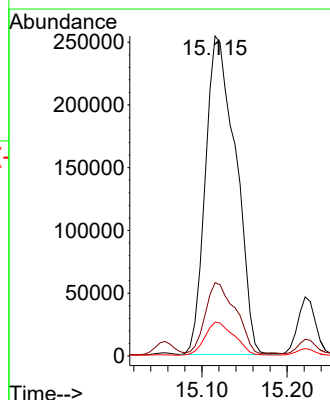
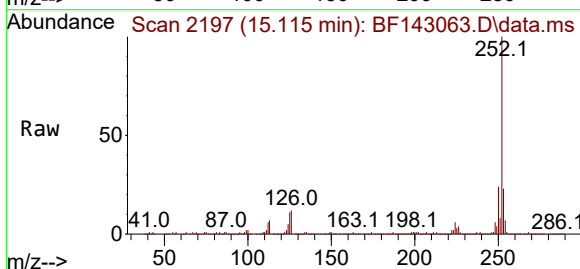
Tgt Ion:252 Resp: 627825

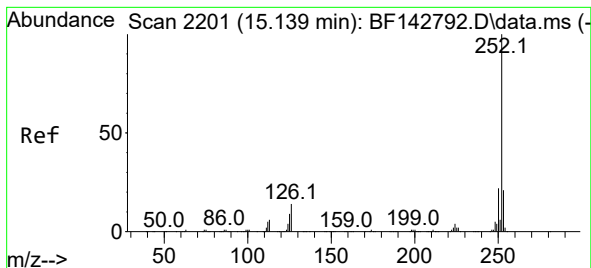
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 10.6 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 113.645 ng

RT: 15.115 min Scan# 2197

Delta R.T. -0.024 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

Instrument :

BNA_F

ClientSampleId :

G2(0-6)

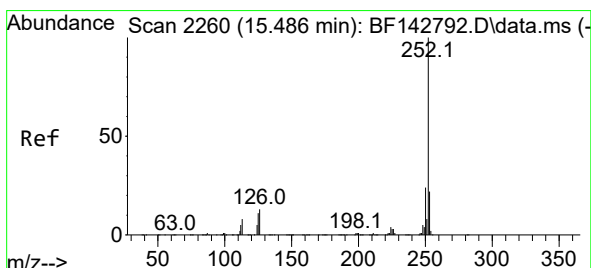
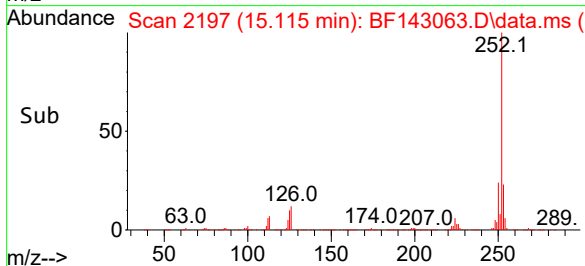
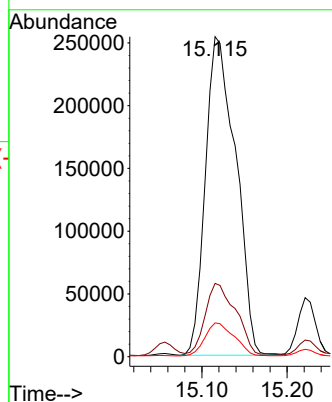
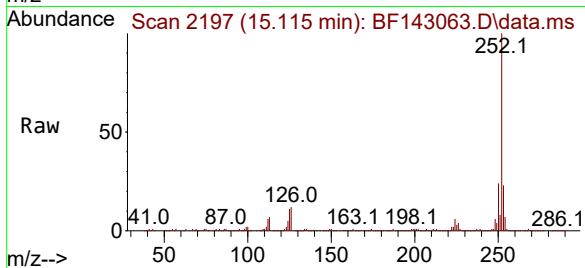
Tgt Ion:252 Resp: 627825

Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

125 10.6 7.4 11.2



#90

Benzo(a)pyrene

Concen: 53.065 ng

RT: 15.492 min Scan# 2261

Delta R.T. 0.006 min

Lab File: BF143063.D

Acq: 09 Jul 2025 18:31

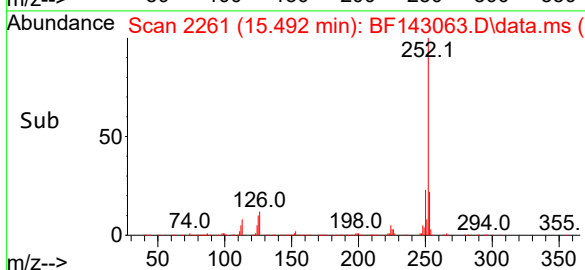
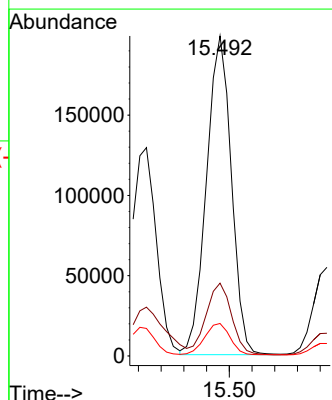
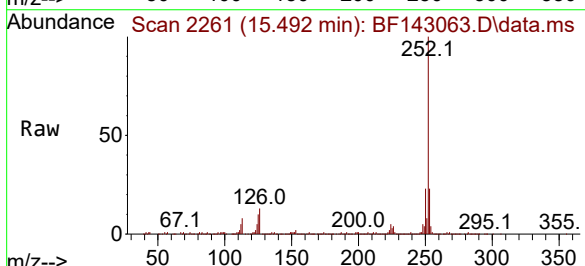
Tgt Ion:252 Resp: 302708

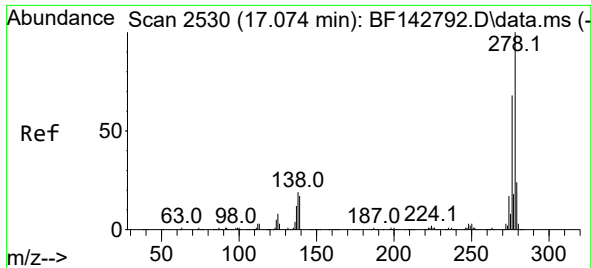
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 10.2 8.6 12.8

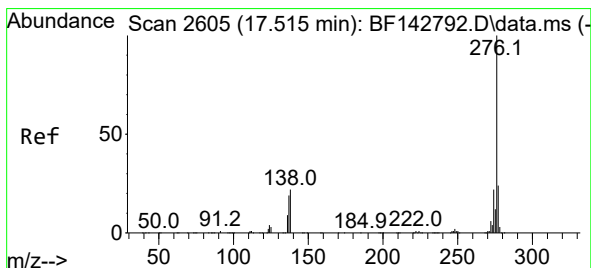
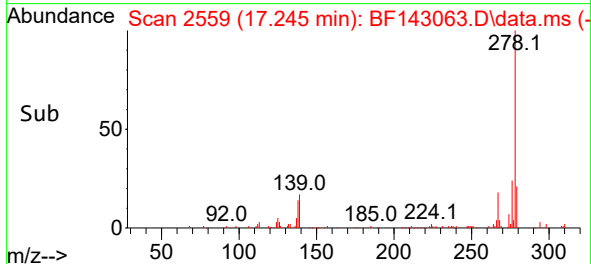
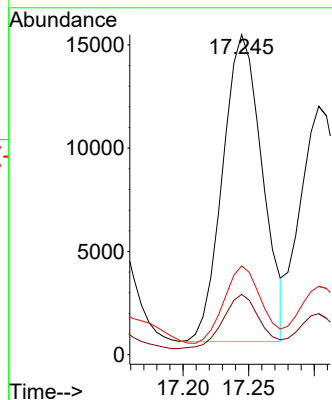
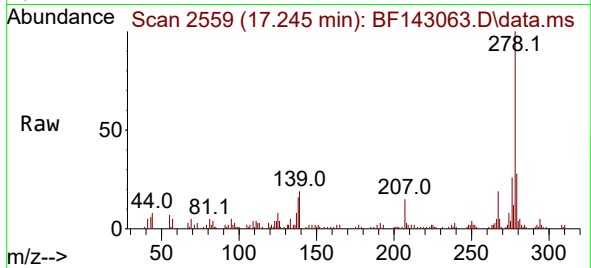




#91
Dibenzo(a,h)anthracene
Concen: 4.941 ng
RT: 17.245 min Scan# 21
Delta R.T. 0.171 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Instrument :
BNA_F
ClientSampleId :
G2(0-6)

Tgt Ion:278 Resp: 31205
Ion Ratio Lower Upper
278 100
139 18.9 13.5 20.3
279 27.8 18.8 28.2



#92
Benzo(g,h,i)perylene
Concen: 21.784 ng
RT: 17.527 min Scan# 2607
Delta R.T. 0.012 min
Lab File: BF143063.D
Acq: 09 Jul 2025 18:31

Tgt Ion:276 Resp: 137189
Ion Ratio Lower Upper
276 100
277 23.8 18.8 28.2
138 20.4 17.6 26.4

