

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070925\
 Data File : BF143067.D
 Acq On : 09 Jul 2025 20:34
 Operator : RC/JU
 Sample : Q2487-16 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G1(6-12)

Quant Time: Jul 10 00:58:00 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)

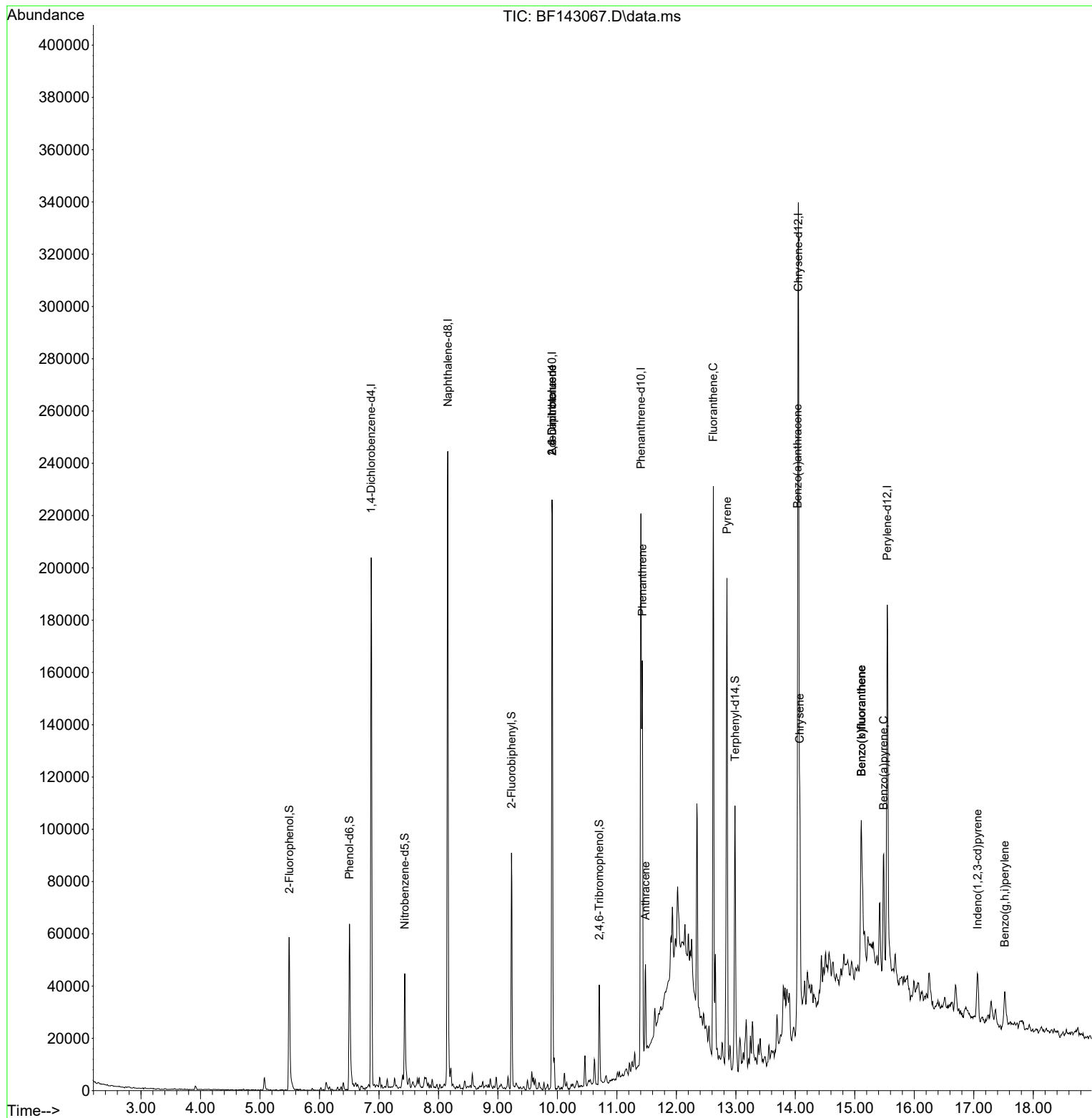
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	45228	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	159788	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	70306	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	107884	20.000	ng	0.00
76) Chrysene-d12	14.051	240	119286	20.000	ng	0.00
86) Perylene-d12	15.545	264	77504	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	30498	11.227	ng	0.00
7) Phenol-d6	6.504	99	36252	11.311	ng	0.00
23) Nitrobenzene-d5	7.434	82	21540	7.394	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	6743	9.320	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	42262	7.897	ng	-0.02
79) Terphenyl-d14	12.986	244	45867	5.313	ng	-0.01
Target Compounds						
						Qvalue
51) 2,6-Dinitrotoluene	9.910	165	9328	9.333	ng	# 26
57) 2,4-Dinitrotoluene	9.910	165	9328	7.027	ng	# 26
71) Phenanthrene	11.428	178	81242	13.902	ng	99
72) Anthracene	11.480	178	20608	3.438	ng	97
75) Fluoranthene	12.622	202	124150	22.384	ng	99
78) Pyrene	12.851	202	107901	9.650	ng	100
81) Benzo(a)anthracene	14.039	228	51670	6.421	ng	96
83) Chrysene	14.074	228	42774	5.957	ng	96
87) Indeno(1,2,3-cd)pyrene	17.062	276	13686	2.318	ng	96
88) Benzo(b)fluoranthene	15.110	252	48491	10.812	ng	# 94
89) Benzo(k)fluoranthene	15.110	252	48491	11.557	ng	# 94
90) Benzo(a)pyrene	15.486	252	25149	5.805	ng	99
92) Benzo(g,h,i)perylene	17.521	276	13218	2.764	ng	96

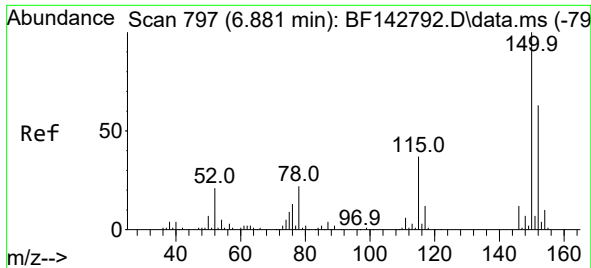
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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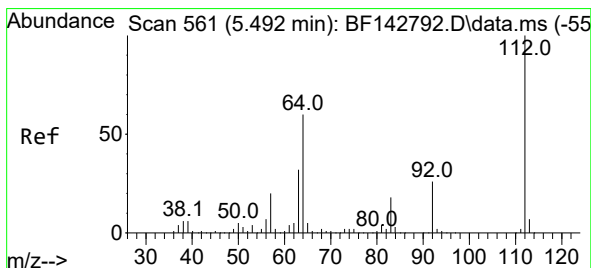
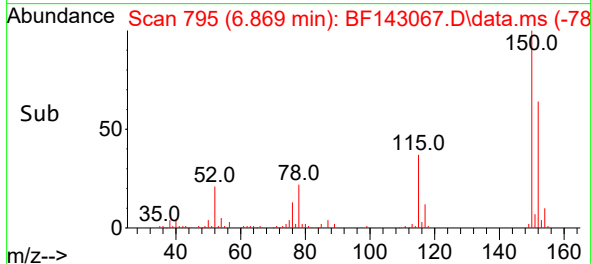
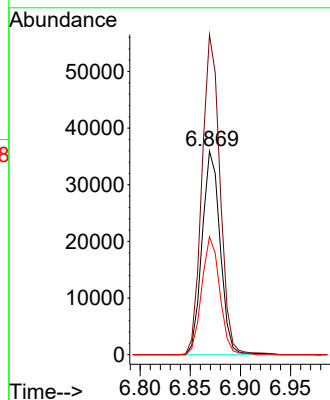
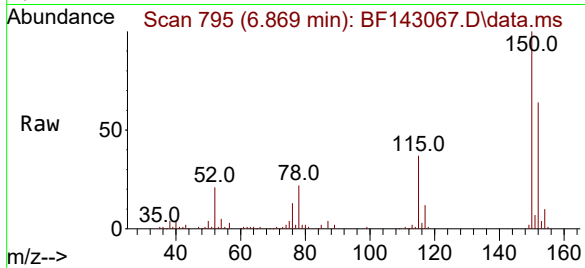




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

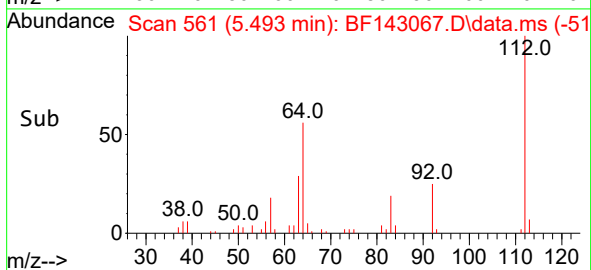
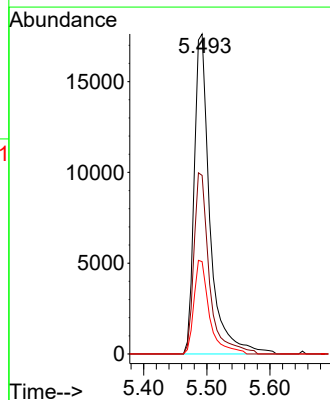
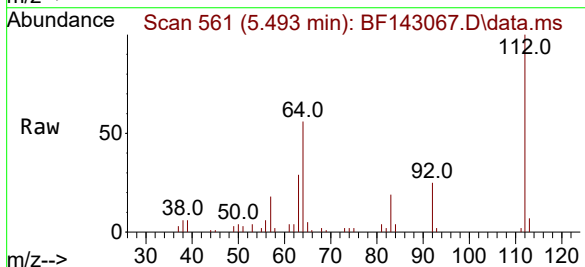
Instrument :
BNA_F
ClientSampleId :
G1(6-12)

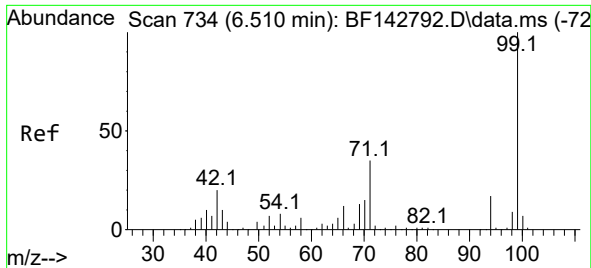
Tgt Ion:152 Resp: 45228
Ion Ratio Lower Upper
152 100
150 157.3 127.2 190.8
115 58.0 46.6 69.8



#5
2-Fluorophenol
Concen: 11.227 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion:112 Resp: 30498
Ion Ratio Lower Upper
112 100
64 55.8 48.2 72.2
63 28.9 25.7 38.5

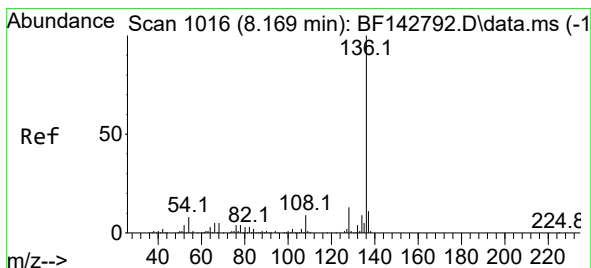
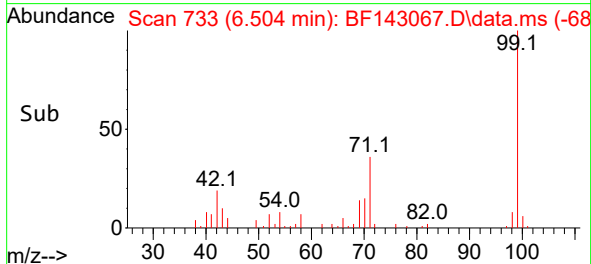
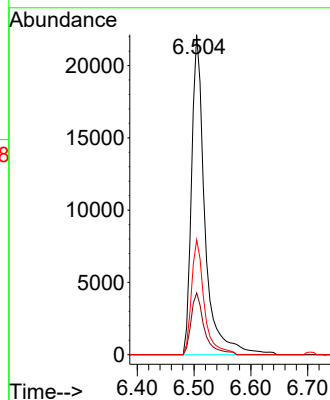
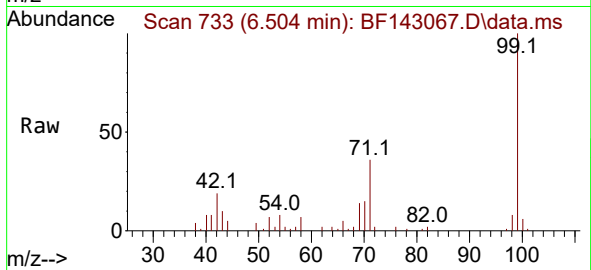




#7
Phenol-d6
Concen: 11.311 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

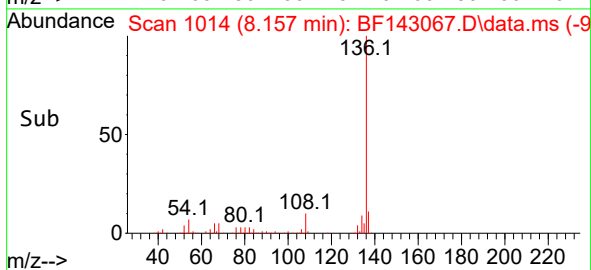
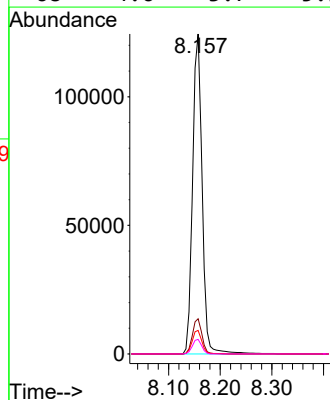
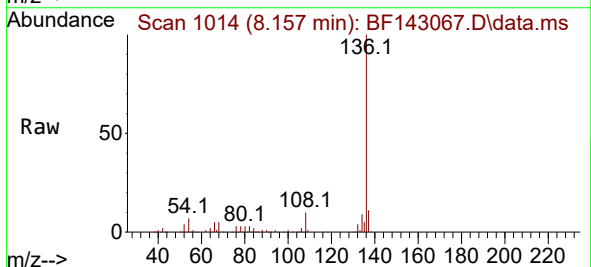
Instrument :
BNA_F
ClientSampleId :
G1(6-12)

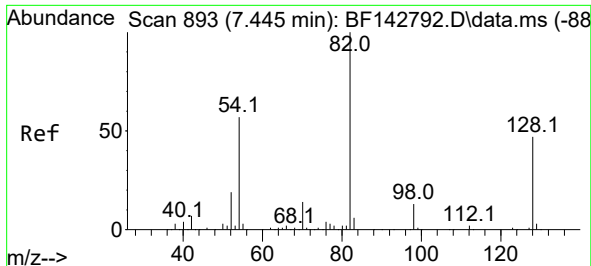
Tgt Ion: 99 Resp: 36252
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 35.9 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion: 136 Resp: 159788
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 7.4 6.3 9.5
68 4.6 3.7 5.5

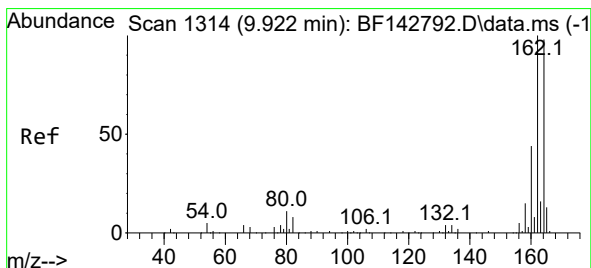
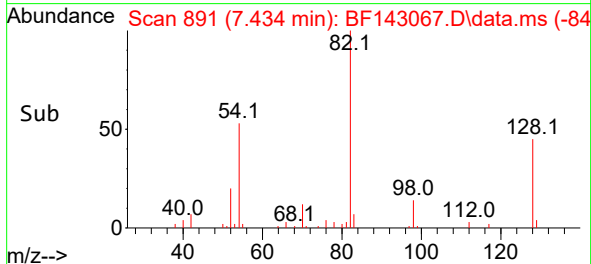
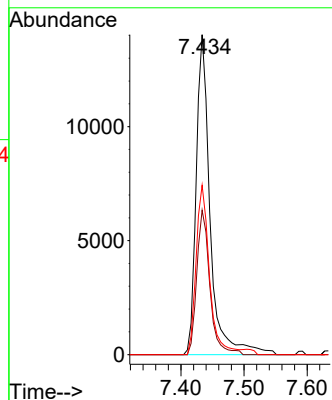
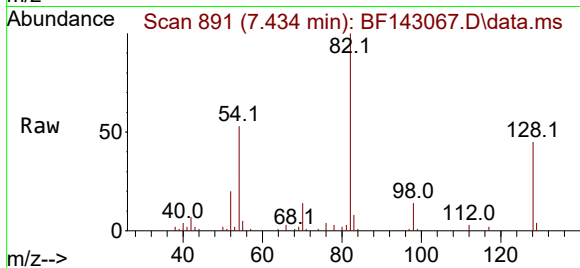




#23
Nitrobenzene-d5
Concen: 7.394 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.011 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

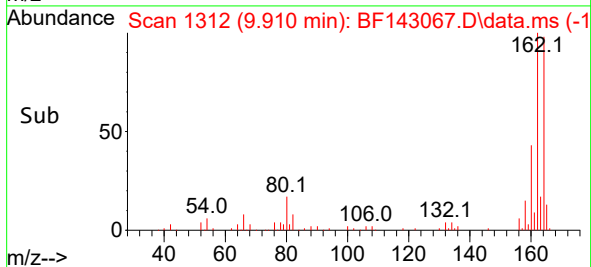
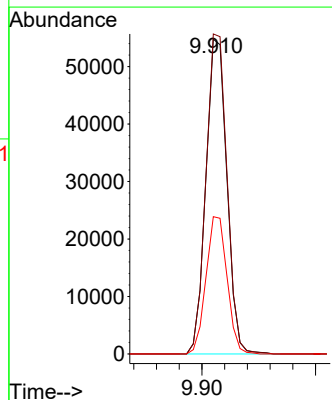
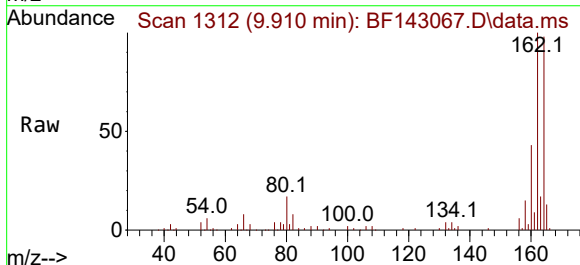
Instrument :
BNA_F
ClientSampleId :
G1(6-12)

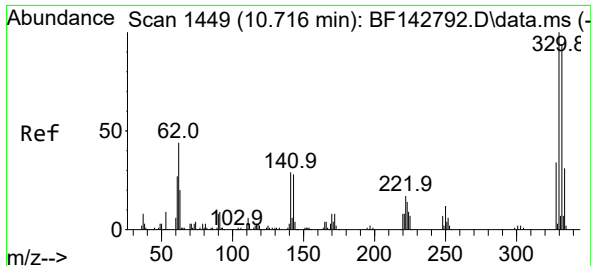
Tgt Ion: 82 Resp: 21540
Ion Ratio Lower Upper
82 100
128 45.1 37.7 56.5
54 52.9 45.7 68.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion:164 Resp: 70306
Ion Ratio Lower Upper
164 100
162 101.7 81.8 122.8
160 43.6 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 9.320 ng

RT: 10.704 min Scan# 1447

Delta R.T. -0.012 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

Instrument :

BNA_F

ClientSampleId :

G1(6-12)

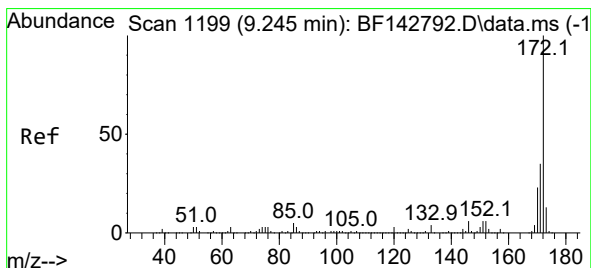
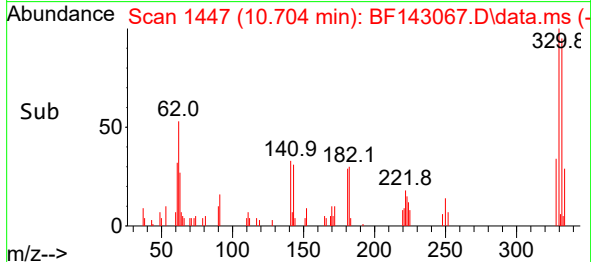
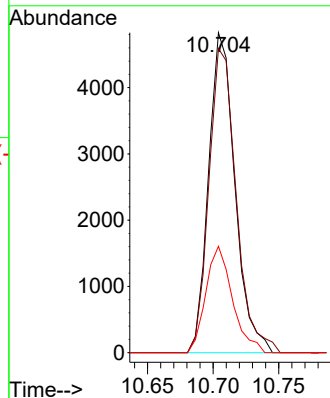
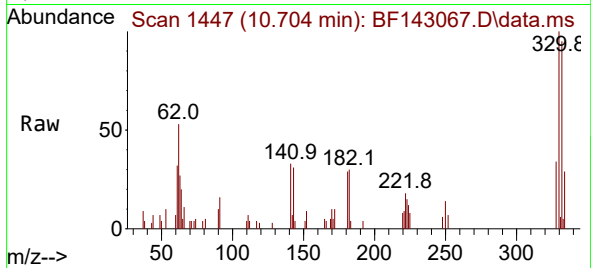
Tgt Ion:330 Resp: 6743

Ion Ratio Lower Upper

330 100

332 98.4 75.0 112.6

141 33.7 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 7.897 ng

RT: 9.228 min Scan# 1196

Delta R.T. -0.017 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

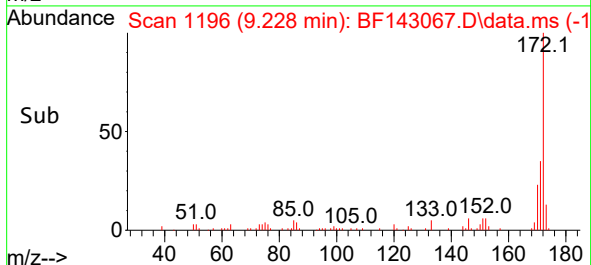
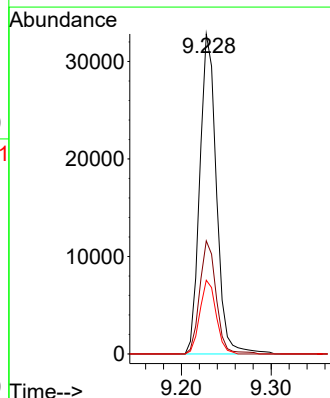
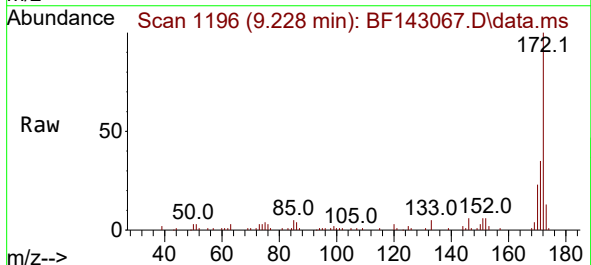
Tgt Ion:172 Resp: 42262

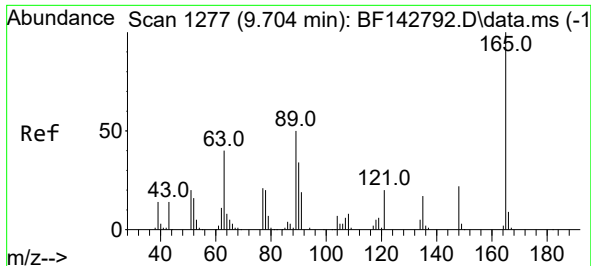
Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.4

170 23.0 18.5 27.7

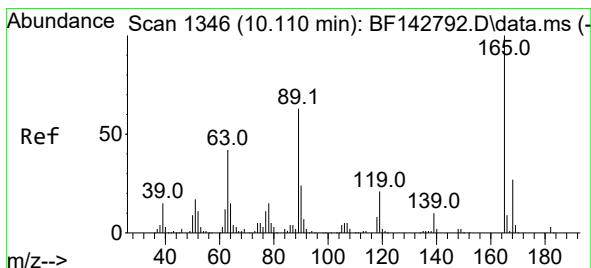
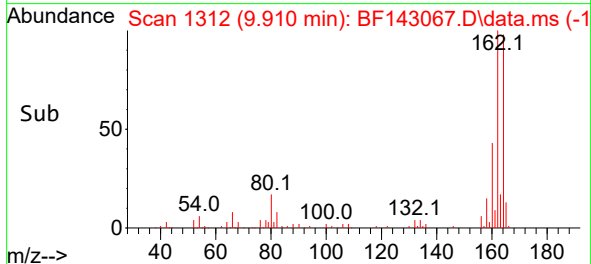
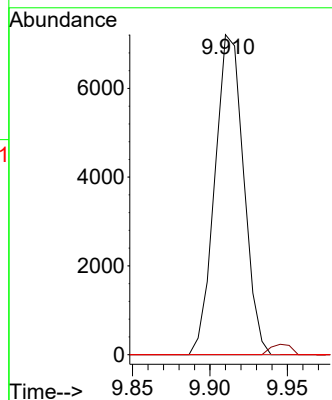
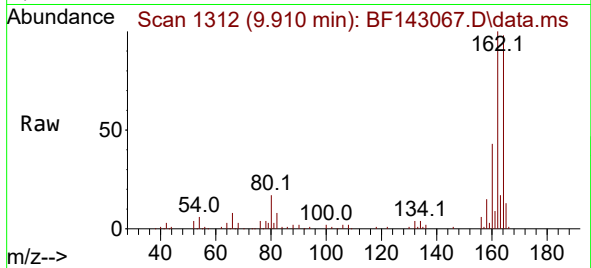




#51
2,6-Dinitrotoluene
Concen: 9.333 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

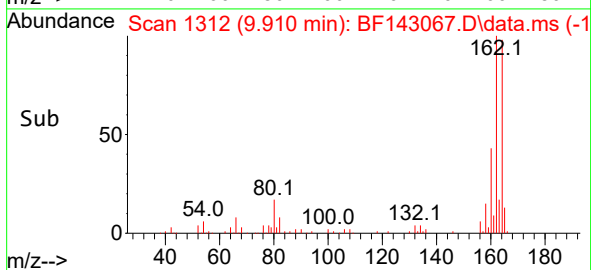
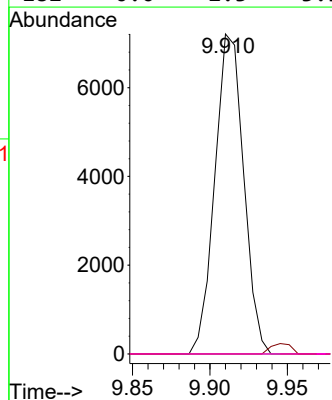
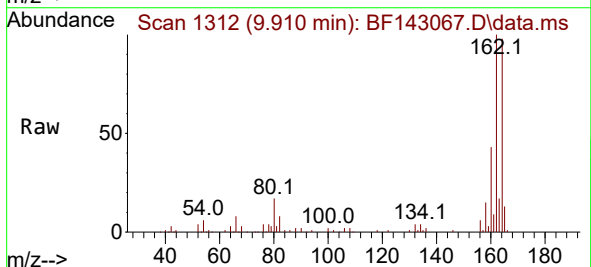
Instrument :
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ClientSampleId :
G1(6-12)

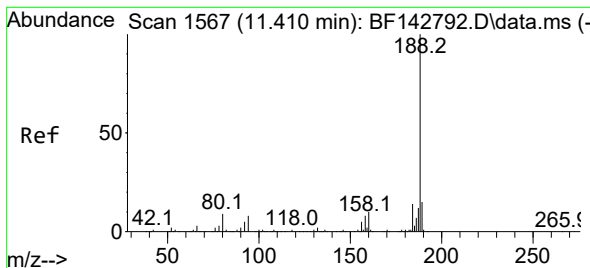
Tgt Ion:165 Resp: 9328
Ion Ratio Lower Upper
165 100
63 0.0 44.2 66.4#
89 0.0 39.8 59.8#



#57
2,4-Dinitrotoluene
Concen: 7.027 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.200 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion:165 Resp: 9328
Ion Ratio Lower Upper
165 100
63 0.0 33.9 50.9#
89 0.0 50.6 75.8#
182 0.0 2.3 3.5#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

Instrument :

BNA_F

ClientSampleId :

G1(6-12)

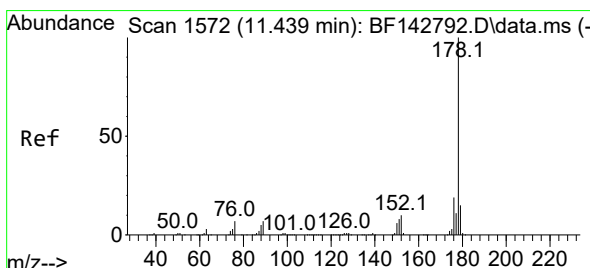
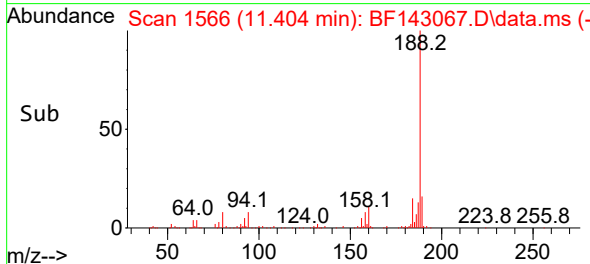
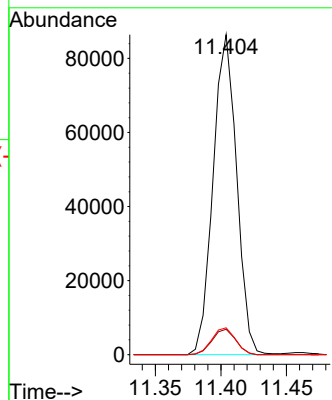
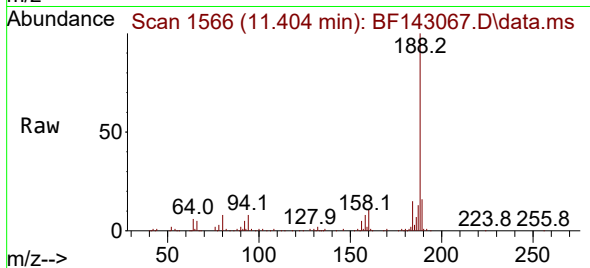
Tgt Ion:188 Resp: 107884

Ion Ratio Lower Upper

188 100

94 7.9 6.7 10.1

80 8.4 6.9 10.3



#71

Phenanthrene

Concen: 13.902 ng

RT: 11.428 min Scan# 1570

Delta R.T. -0.012 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

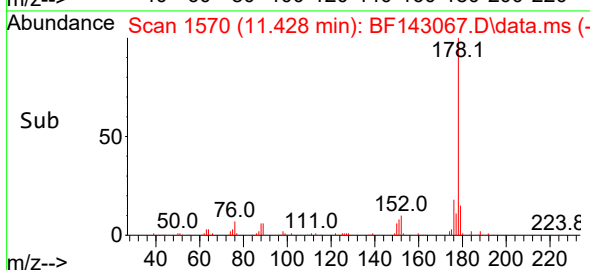
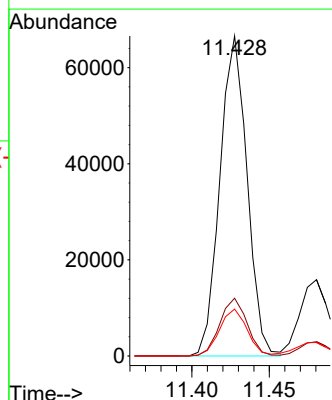
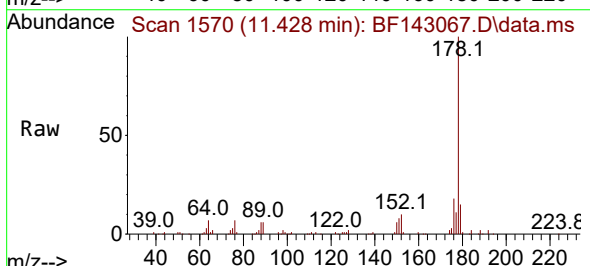
Tgt Ion:178 Resp: 81242

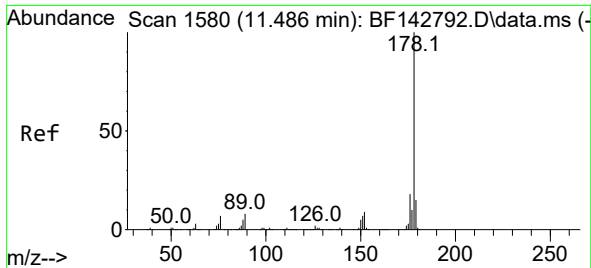
Ion Ratio Lower Upper

178 100

176 18.1 15.1 22.7

179 14.7 12.0 18.0

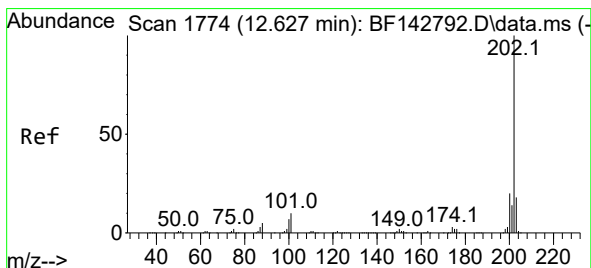
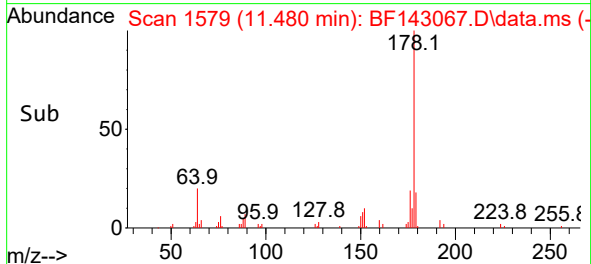
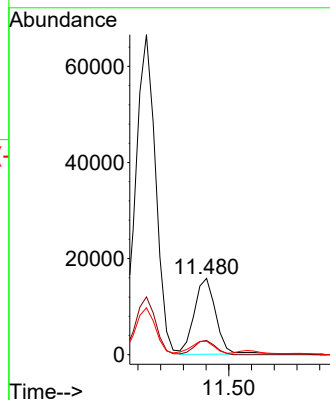
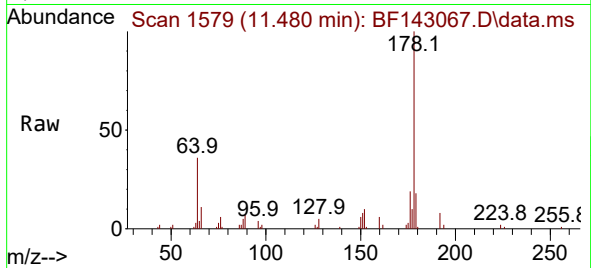




#72
 Anthracene
 Concen: 3.438 ng
 RT: 11.480 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF143067.D
 Acq: 09 Jul 2025 20:34

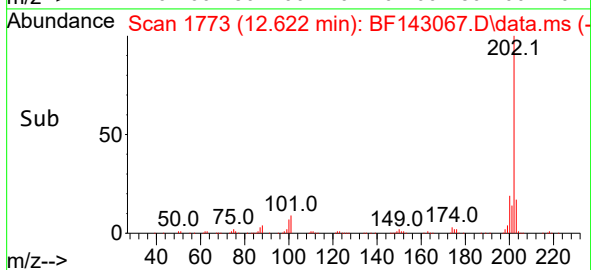
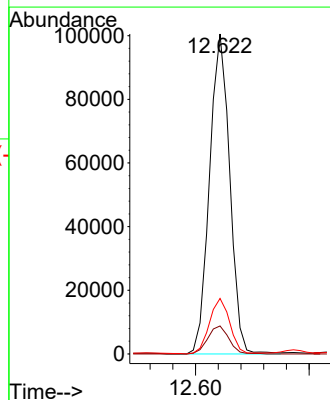
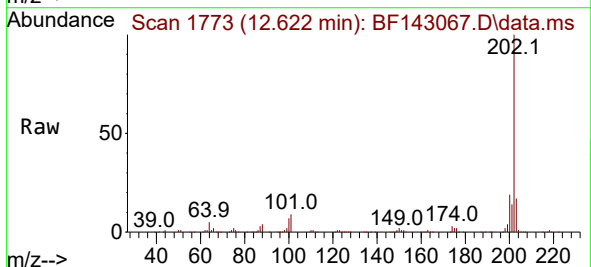
Instrument :
 BNA_F
 ClientSampleId :
 G1(6-12)

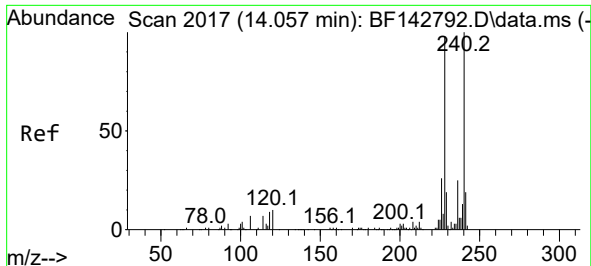
Tgt Ion:178 Resp: 20608
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.6 21.8
 179 17.6 12.4 18.6



#75
 Fluoranthene
 Concen: 22.384 ng
 RT: 12.622 min Scan# 1773
 Delta R.T. -0.006 min
 Lab File: BF143067.D
 Acq: 09 Jul 2025 20:34

Tgt Ion:202 Resp: 124150
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 29.7
 203 17.3 0.0 37.5

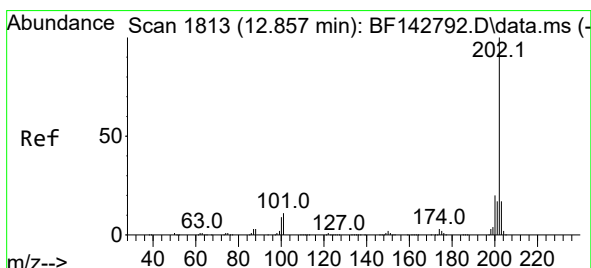
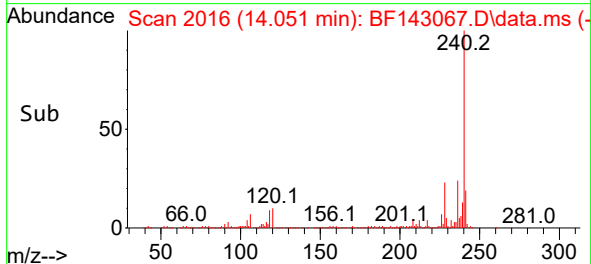
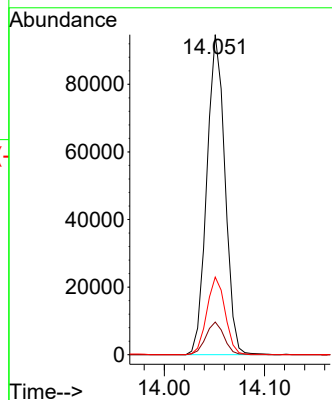
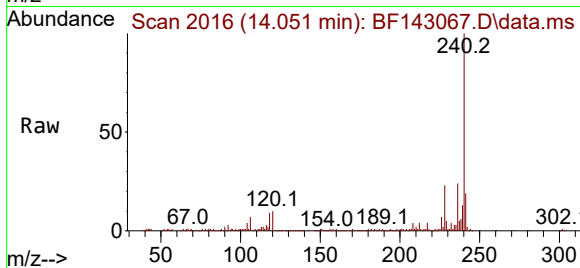




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

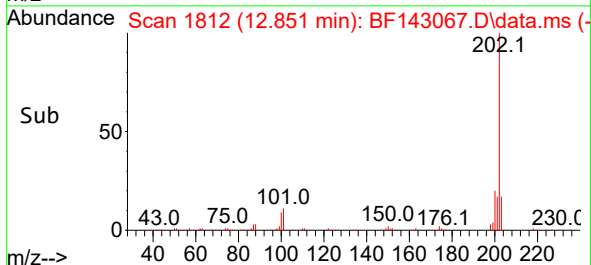
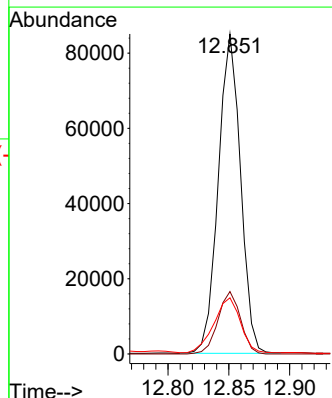
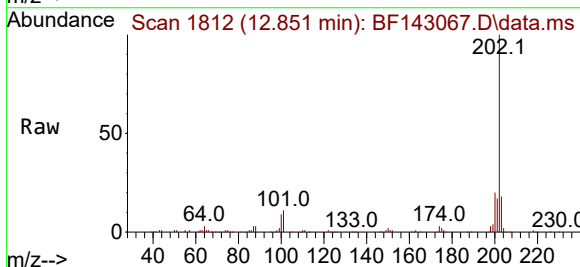
Instrument :
BNA_F
ClientSampleId :
G1(6-12)

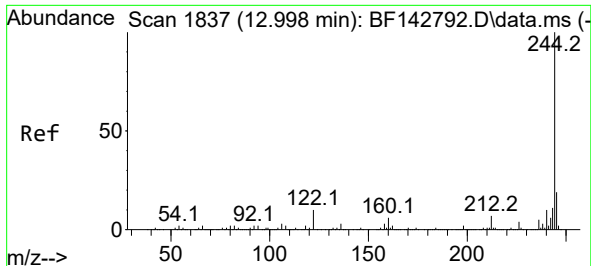
Tgt Ion:240 Resp: 119286
Ion Ratio Lower Upper
240 100
120 10.2 8.2 12.2
236 24.2 19.8 29.8



#78
Pyrene
Concen: 9.650 ng
RT: 12.851 min Scan# 1812
Delta R.T. -0.006 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion:202 Resp: 107901
Ion Ratio Lower Upper
202 100
200 19.5 15.7 23.5
203 17.6 13.8 20.6

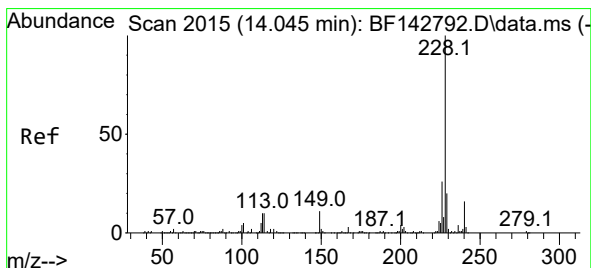
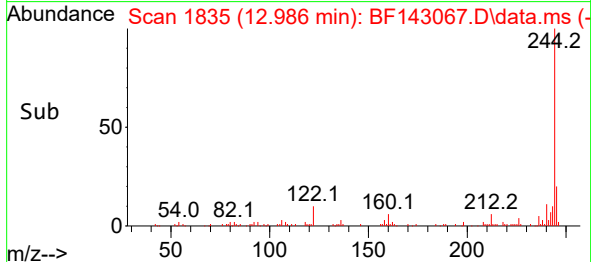
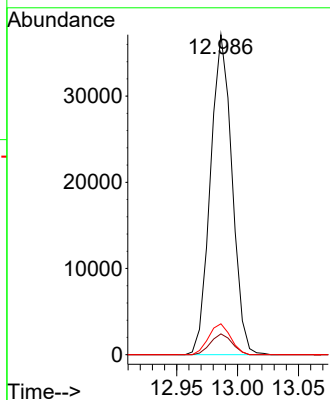
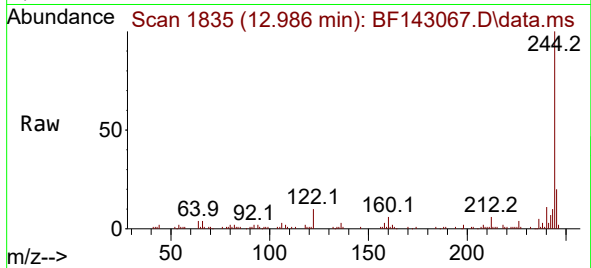




#79
 Terphenyl-d14
 Concen: 5.313 ng
 RT: 12.986 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF143067.D
 Acq: 09 Jul 2025 20:34

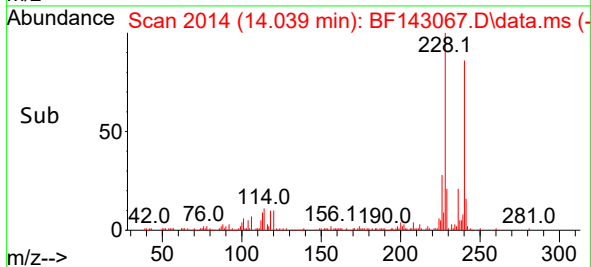
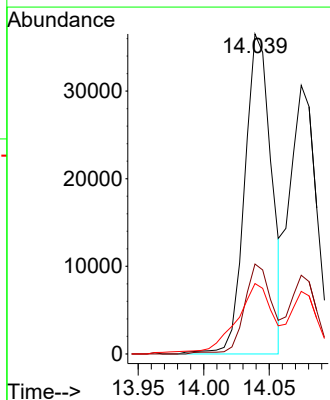
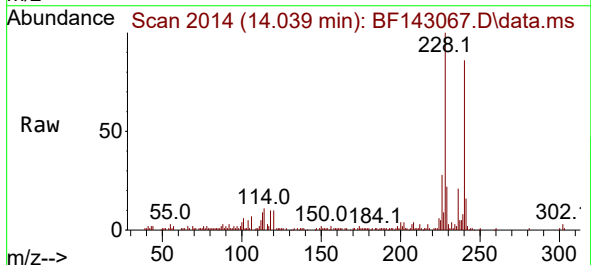
Instrument :
 BNA_F
 ClientSampleId :
 G1(6-12)

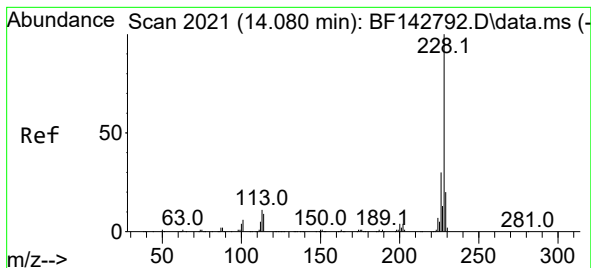
Tgt Ion:244 Resp: 45867
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.0
 122 9.7 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 6.421 ng
 RT: 14.039 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF143067.D
 Acq: 09 Jul 2025 20:34

Tgt Ion:228 Resp: 51670
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.2 31.8
 229 22.0 15.6 23.4





#83

Chrysene

Concen: 5.957 ng

RT: 14.074 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

Instrument :

BNA_F

ClientSampleId :

G1(6-12)

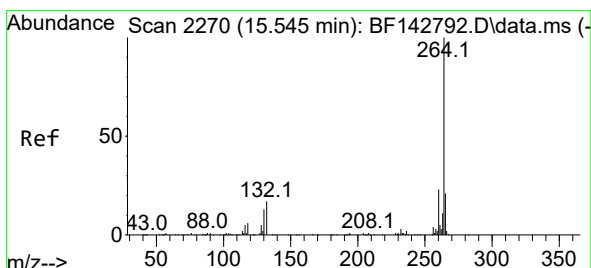
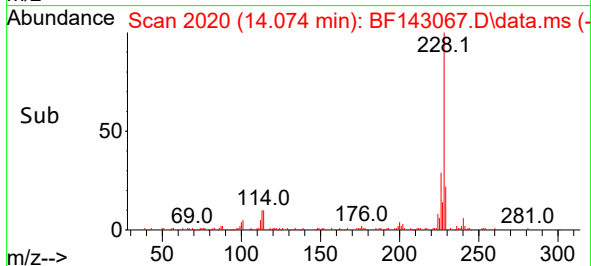
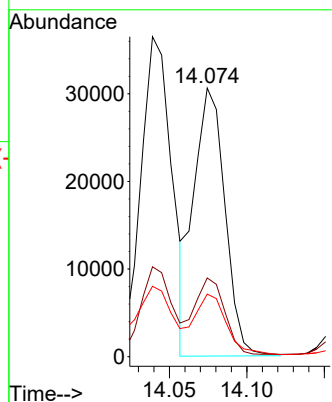
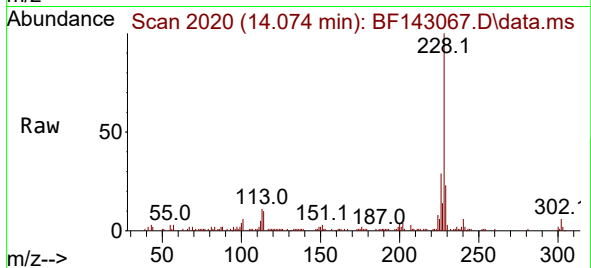
Tgt Ion:228 Resp: 42774

Ion Ratio Lower Upper

228 100

226 29.3 23.7 35.5

229 23.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

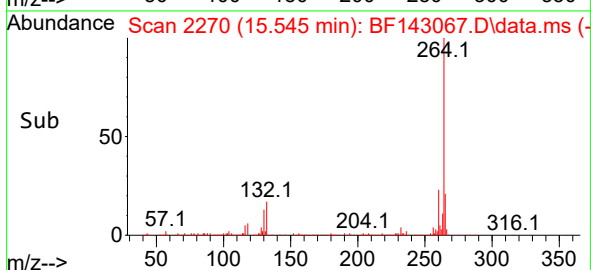
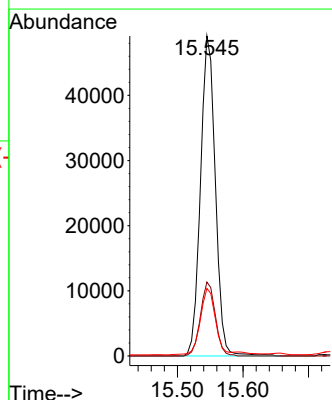
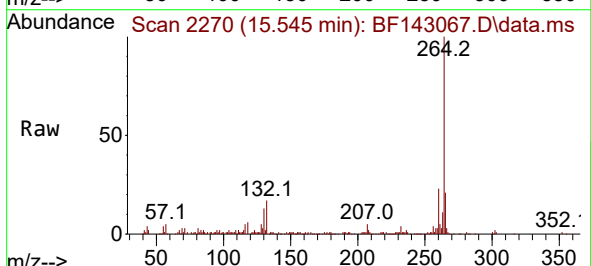
Tgt Ion:264 Resp: 77504

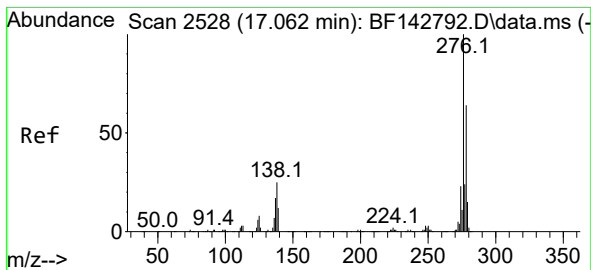
Ion Ratio Lower Upper

264 100

260 23.1 18.1 27.1

265 21.1 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.318 ng

RT: 17.062 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

Instrument :

BNA_F

ClientSampleId :

G1(6-12)

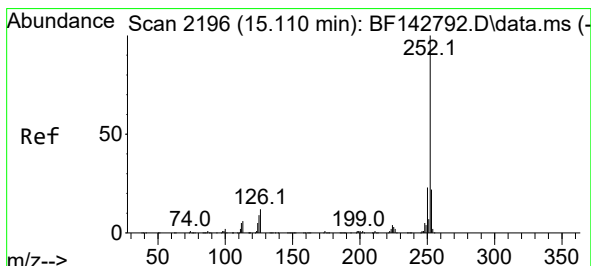
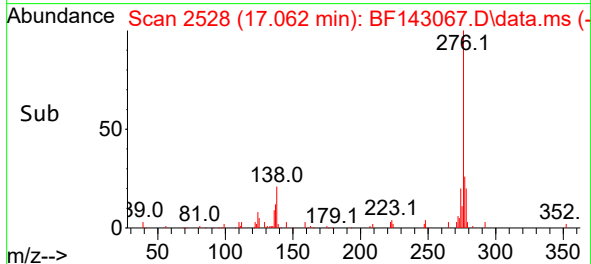
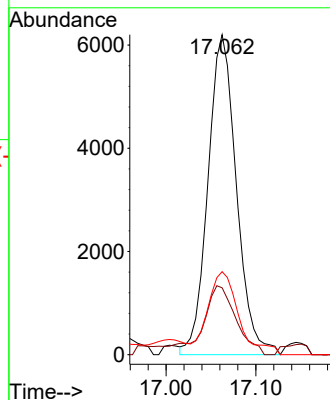
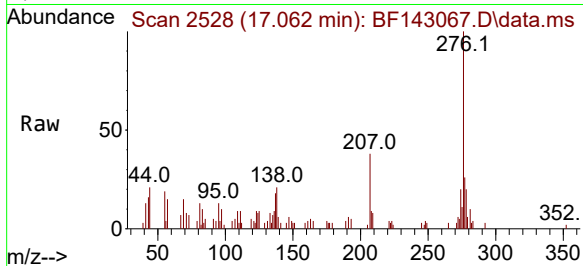
Tgt Ion:276 Resp: 13686

Ion Ratio Lower Upper

276 100

138 24.9 20.2 30.4

277 28.0 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 10.812 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF143067.D

Acq: 09 Jul 2025 20:34

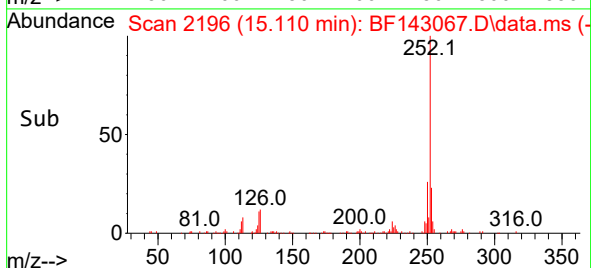
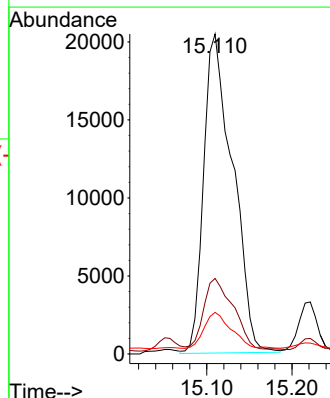
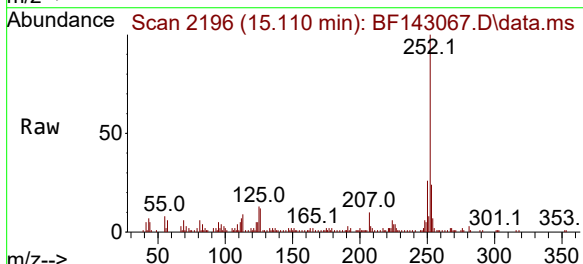
Tgt Ion:252 Resp: 48491

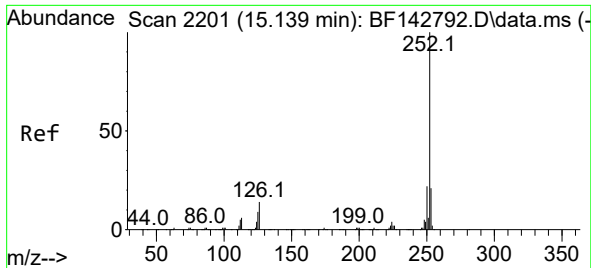
Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 13.0 7.4 11.0#

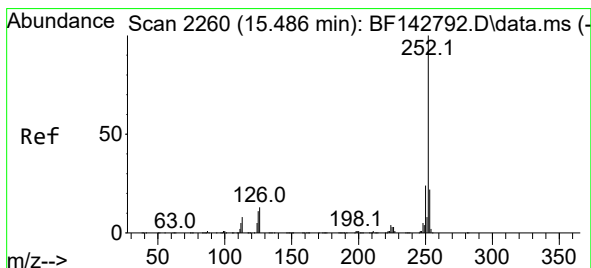
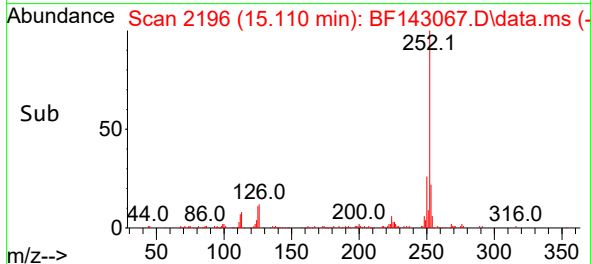
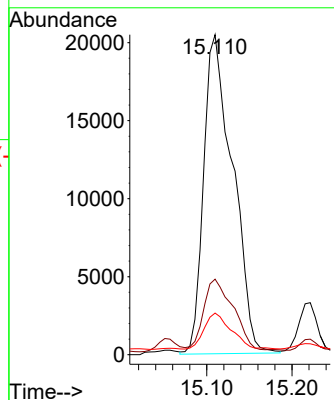
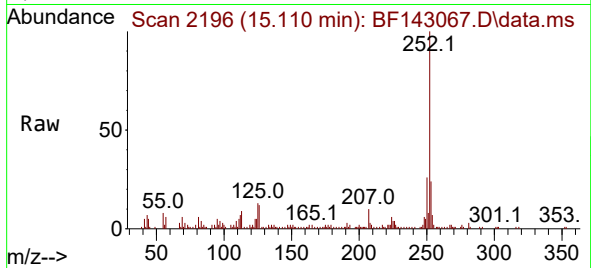




#89
Benzo(k)fluoranthene
Concen: 11.557 ng
RT: 15.110 min Scan# 2196
Delta R.T. -0.029 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

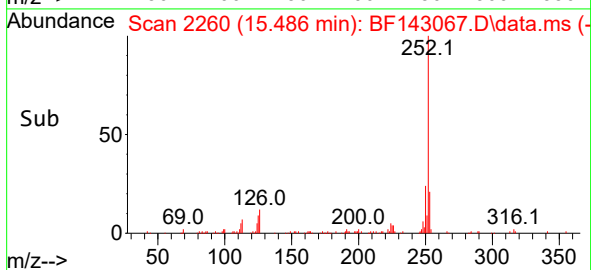
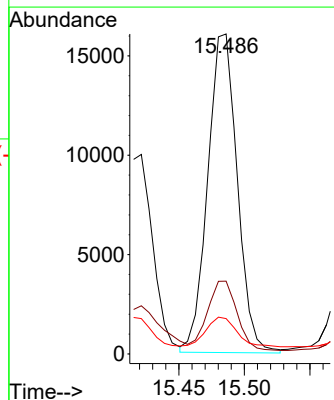
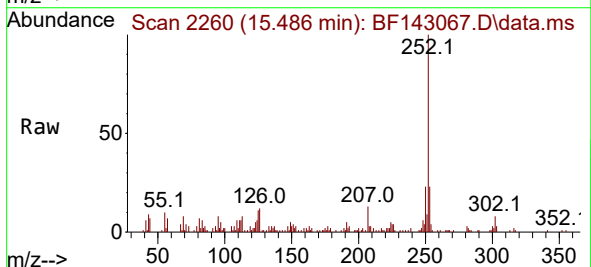
Instrument :
BNA_F
ClientSampleId :
G1(6-12)

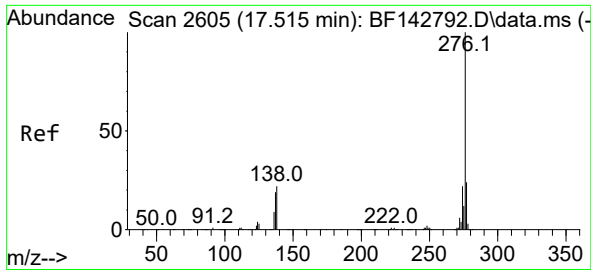
Tgt Ion:252 Resp: 48491
Ion Ratio Lower Upper
252 100
253 23.6 17.2 25.8
125 13.0 7.4 11.2#



#90
Benzo(a)pyrene
Concen: 5.805 ng
RT: 15.486 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BF143067.D
Acq: 09 Jul 2025 20:34

Tgt Ion:252 Resp: 25149
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 11.0 8.6 12.8





#92

Benzo(g,h,i)perylene

Concen: 2.764 ng

RT: 17.521 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF143067.D

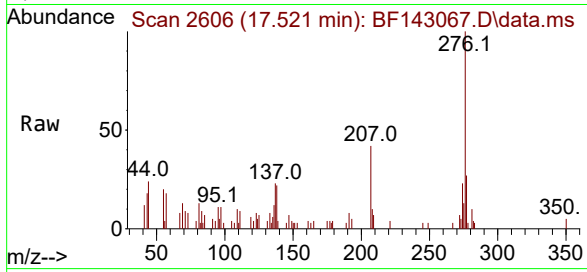
Acq: 09 Jul 2025 20:34

Instrument :

BNA_F

ClientSampleId :

G1(6-12)



Tgt Ion:276 Resp: 13218

Ion Ratio Lower Upper

276 100

277 27.3 18.8 28.2

138 21.5 17.6 26.4

