

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070725\
 Data File : BF143018.D
 Acq On : 07 Jul 2025 19:51
 Operator : RC/JU
 Sample : Q2484-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-58

Quant Time: Jul 08 00:58:43 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)

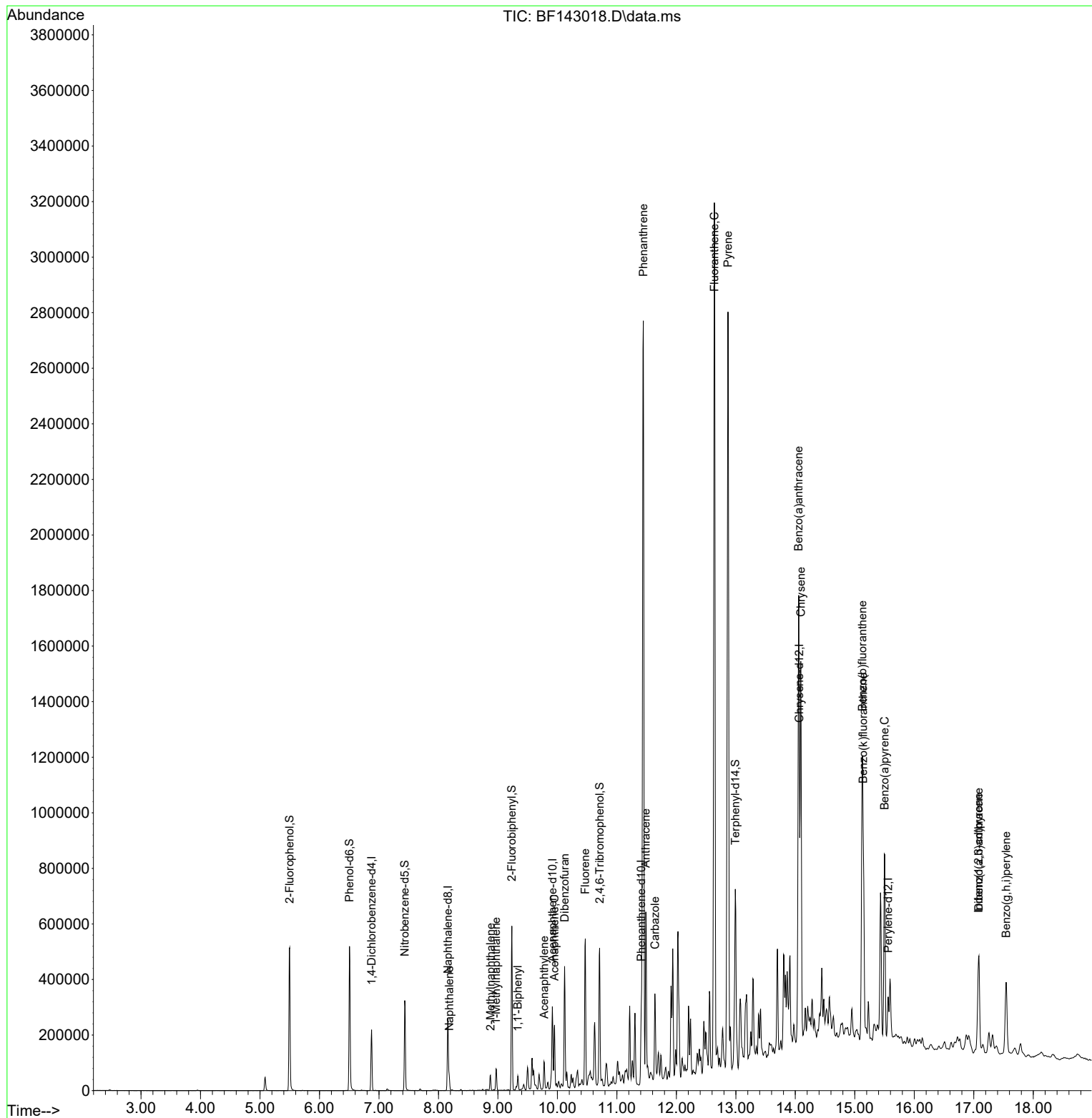
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	47809	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	165637	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	87479	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	153411	20.000	ng	0.00
76) Chrysene-d12	14.068	240	121305	20.000	ng	0.01
86) Perylene-d12	15.562	264	91137	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	212095	73.861	ng	0.00
7) Phenol-d6	6.504	99	240873	71.099	ng	0.00
23) Nitrobenzene-d5	7.434	82	138045	45.714	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	68149	75.703	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	255874	38.425	ng	-0.01
79) Terphenyl-d14	12.992	244	296623	33.786	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	30340	3.742	ng	99
37) 2-Methylnaphthalene	8.875	142	22330	4.442	ng	98
38) 1-Methylnaphthalene	8.969	142	30703	5.901	ng	98
46) 1,1'-Biphenyl	9.333	154	22726	3.289	ng	99
49) Acenaphthylene	9.780	152	50466	5.912	ng	98
52) Acenaphthene	9.951	154	69279	13.301	ng	97
55) Dibenzofuran	10.122	168	223776	29.961	ng	99
58) Fluorene	10.469	166	219122	37.565	ng	100
71) Phenanthrene	11.445	178	1749875	210.568	ng	99
72) Anthracene	11.486	178	345091	40.490	ng	99
73) Carbazole	11.639	167	170886	23.234	ng	99
75) Fluoranthene	12.639	202	2194081	278.194	ng	97
78) Pyrene	12.868	202	1818518	159.934	ng	97
81) Benzo(a)anthracene	14.057	228	926736	113.247	ng	97
83) Chrysene	14.092	228	688349	94.267	ng	98
87) Indeno(1,2,3-cd)pyrene	17.080	276	264615	38.119	ng	94
88) Benzo(b)fluoranthene	15.127	252	683187m	129.549	ng	
89) Benzo(k)fluoranthene	15.139	252	273984m	55.532	ng	
90) Benzo(a)pyrene	15.504	252	434413	85.268	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	65799m	11.666	ng	
92) Benzo(g,h,i)perylene	17.545	276	242264	43.074	ng	98

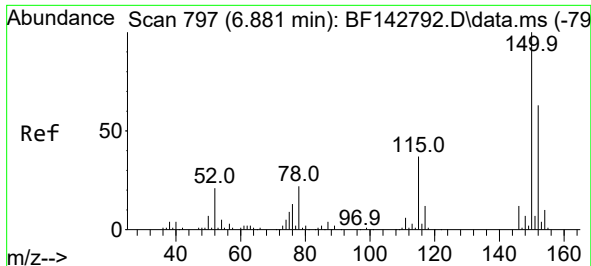
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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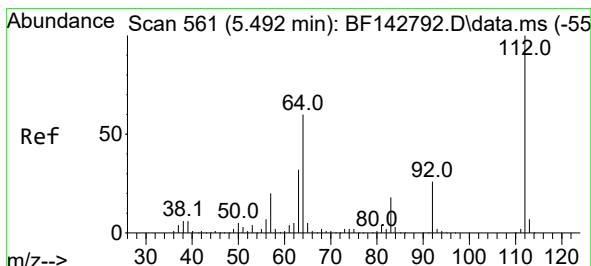
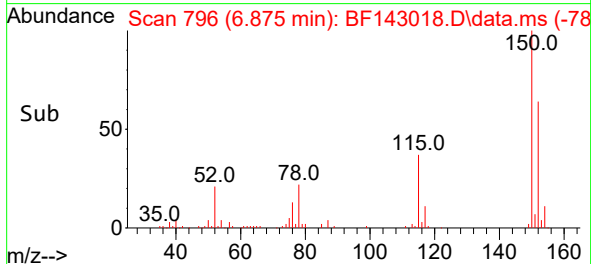
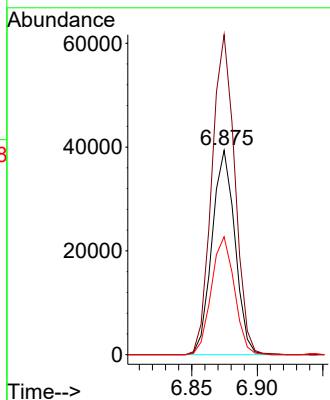
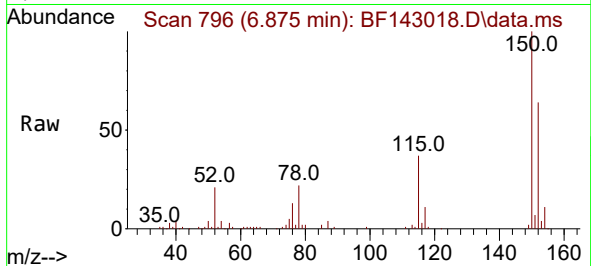




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

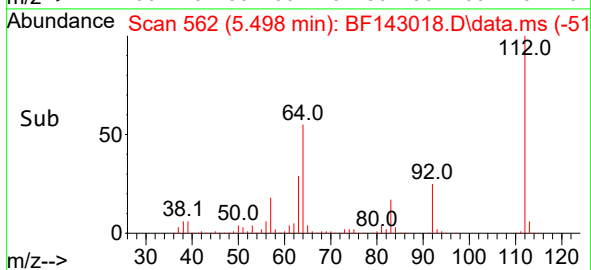
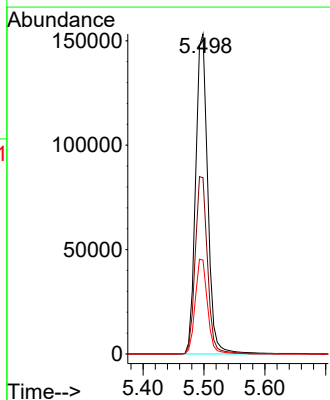
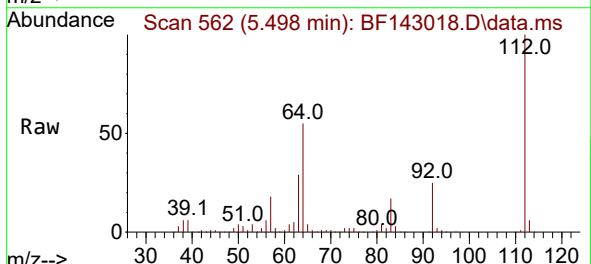
Instrument :
BNA_F
ClientSampleId :
TP-58

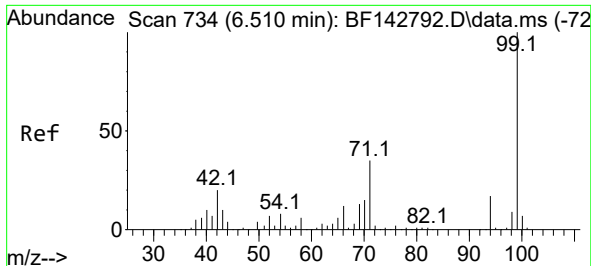
Tgt Ion:152 Resp: 47809
Ion Ratio Lower Upper
152 100
150 156.6 127.2 190.8
115 57.7 46.6 69.8



#5
2-Fluorophenol
Concen: 73.861 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion:112 Resp: 212095
Ion Ratio Lower Upper
112 100
64 55.1 48.2 72.2
63 29.3 25.7 38.5

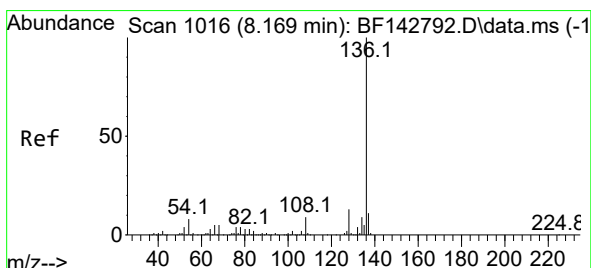
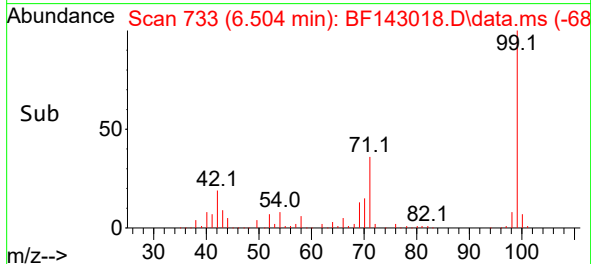
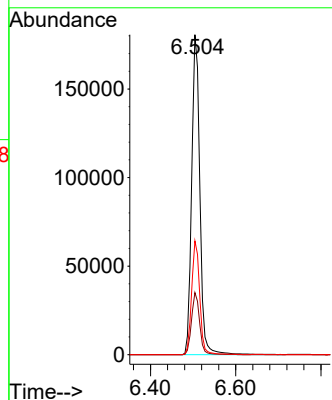
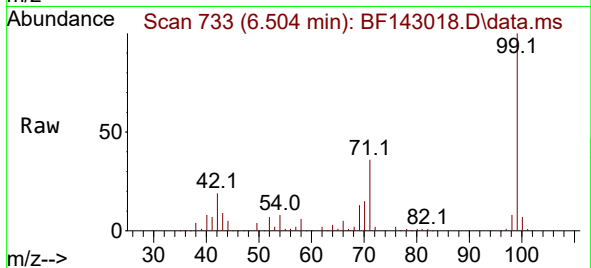




#7
Phenol-d6
Concen: 71.099 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

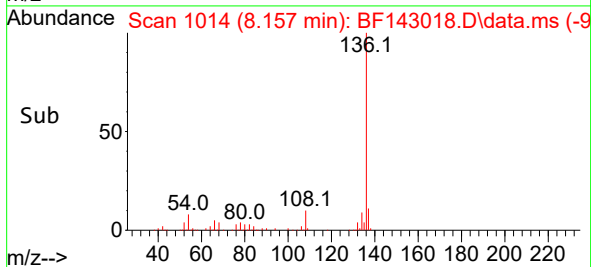
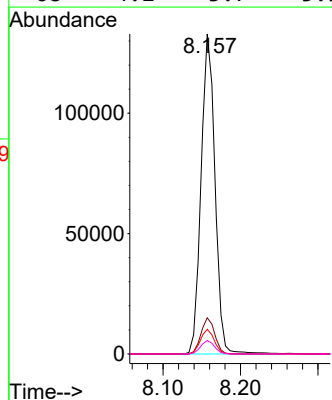
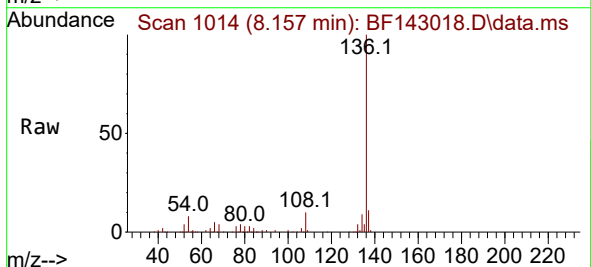
Instrument :
BNA_F
ClientSampleId :
TP-58

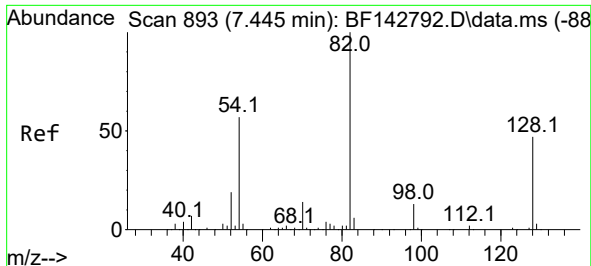
Tgt Ion: 99 Resp: 240873
Ion Ratio Lower Upper
99 100
42 19.4 15.9 23.9
71 35.5 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion: 136 Resp: 165637
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 7.7 6.3 9.5
68 4.2 3.7 5.5

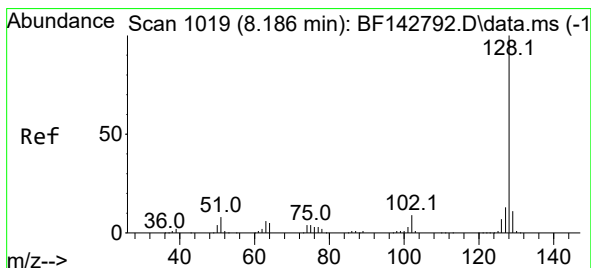
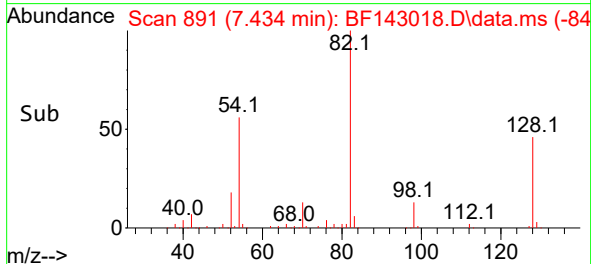
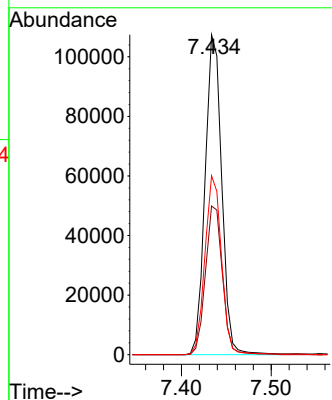
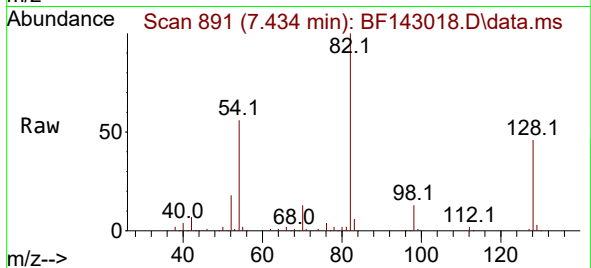




#23
Nitrobenzene-d5
Concen: 45.714 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.011 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

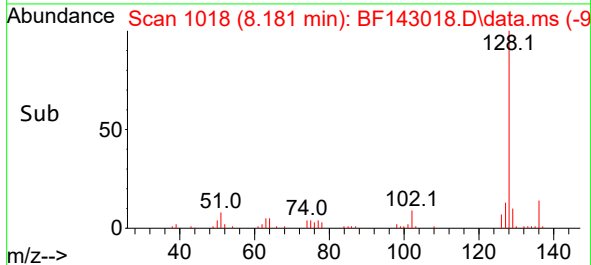
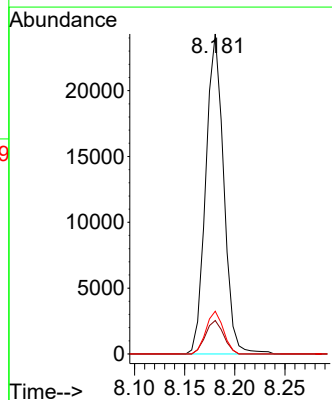
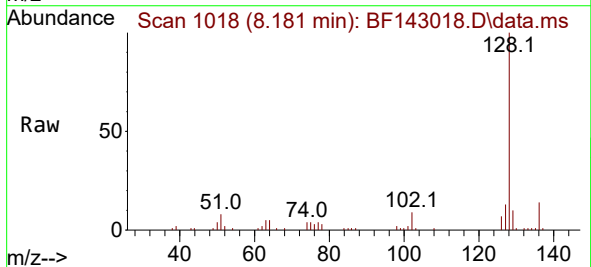
Instrument :
BNA_F
ClientSampleId :
TP-58

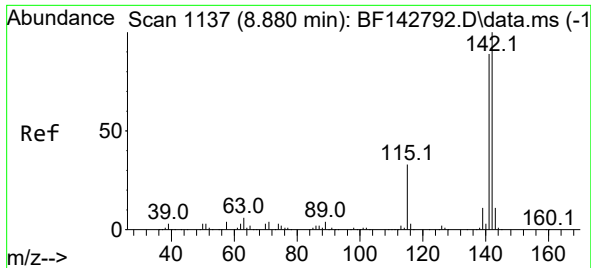
Tgt Ion: 82 Resp: 138045
Ion Ratio Lower Upper
82 100
128 46.5 37.7 56.5
54 55.9 45.7 68.5



#31
Naphthalene
Concen: 3.742 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion: 128 Resp: 30340
Ion Ratio Lower Upper
128 100
129 10.5 8.9 13.3
127 13.3 10.4 15.6

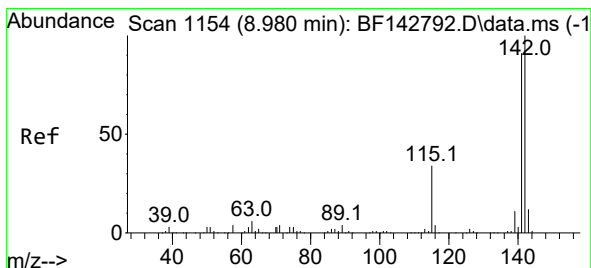
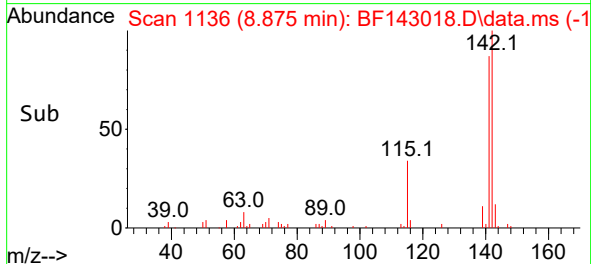
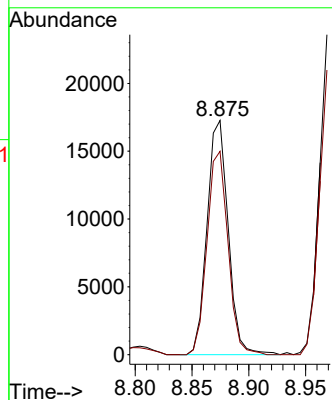
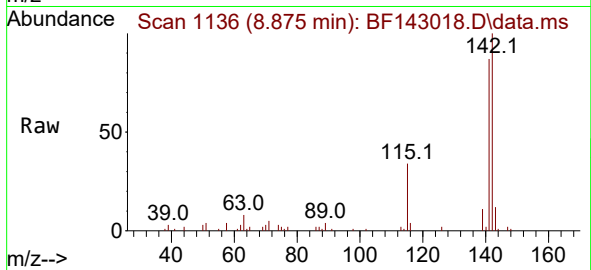




#37
2-Methylnaphthalene
Concen: 4.442 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

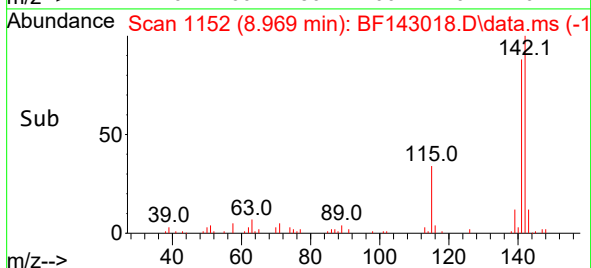
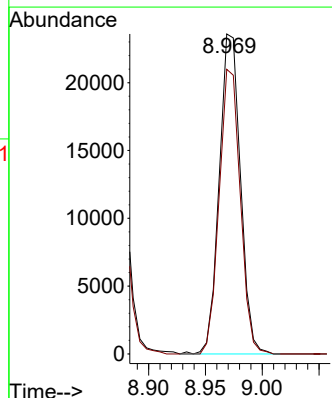
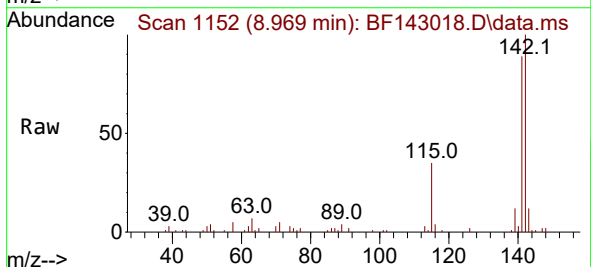
Instrument :
BNA_F
ClientSampleId :
TP-58

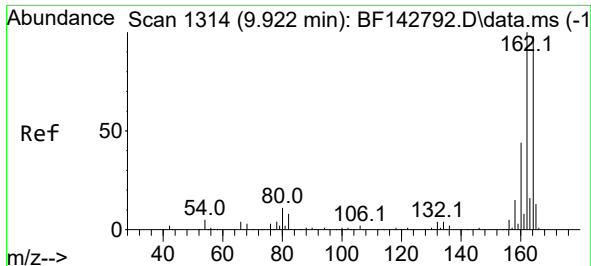
Tgt Ion:142 Resp: 22330
Ion Ratio Lower Upper
142 100
141 86.9 70.9 106.3



#38
1-Methylnaphthalene
Concen: 5.901 ng
RT: 8.969 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion:142 Resp: 30703
Ion Ratio Lower Upper
142 100
141 88.9 73.0 109.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

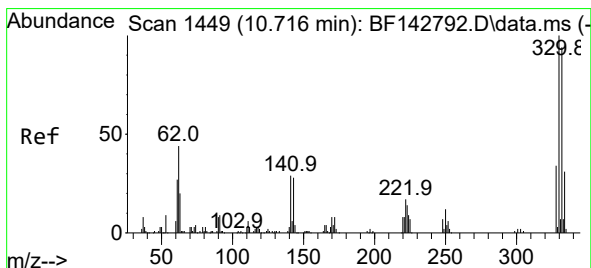
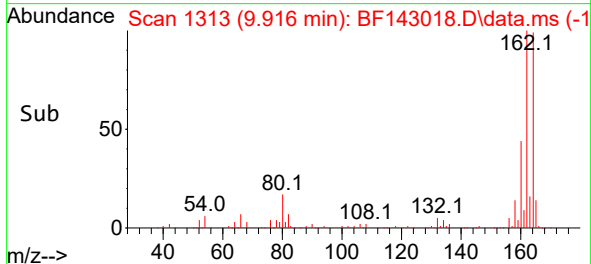
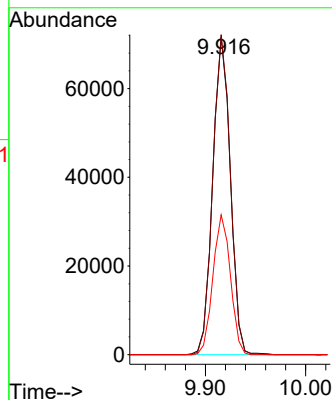
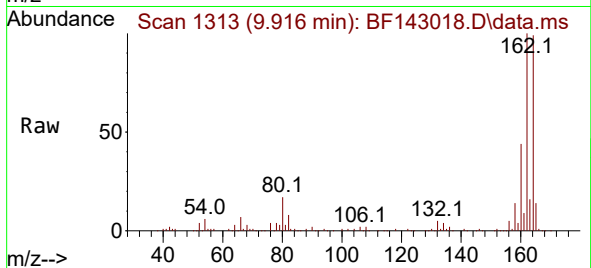
Tgt Ion:164 Resp: 87479

Ion Ratio Lower Upper

164 100

162 100.7 81.8 122.8

160 44.0 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 75.703 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

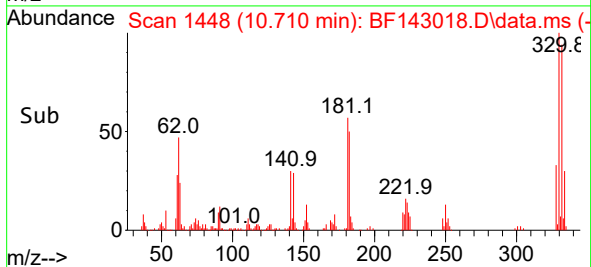
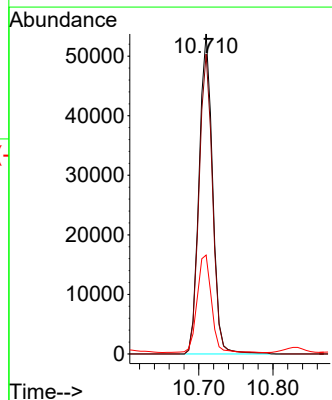
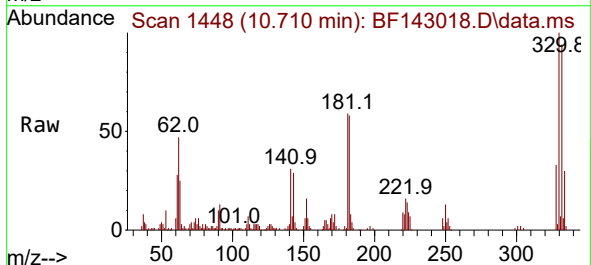
Tgt Ion:330 Resp: 68149

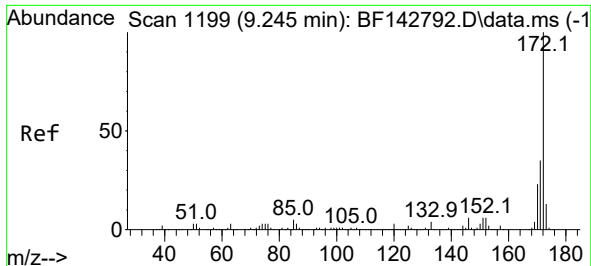
Ion Ratio Lower Upper

330 100

332 93.8 75.0 112.6

141 32.2 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 38.425 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

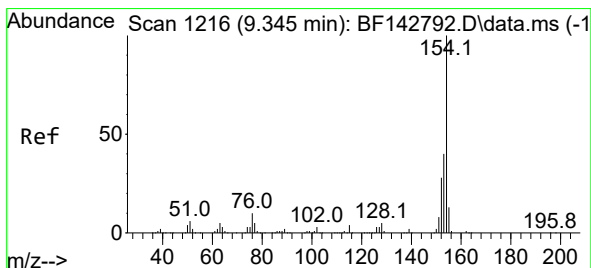
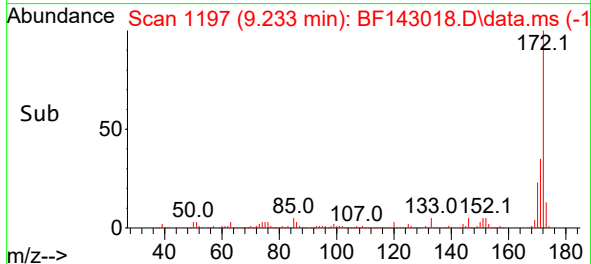
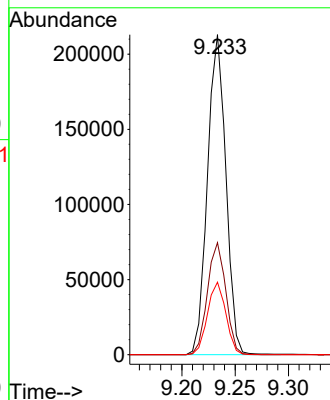
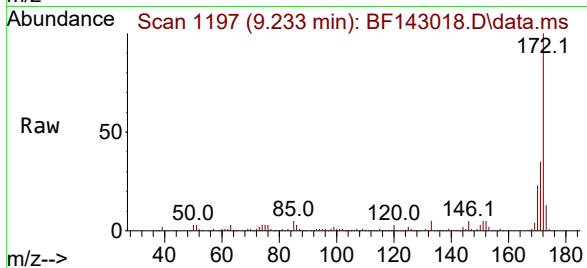
Tgt Ion:172 Resp: 255874

Ion Ratio Lower Upper

172 100

171 35.0 28.2 42.4

170 22.7 18.5 27.7



#46

1,1'-Biphenyl

Concen: 3.289 ng

RT: 9.333 min Scan# 1214

Delta R.T. -0.012 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

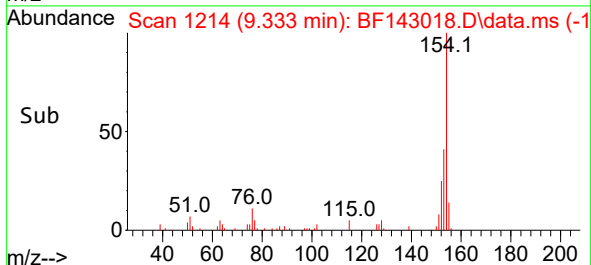
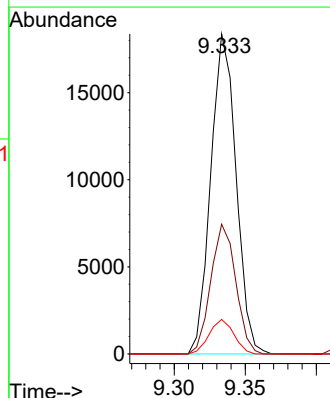
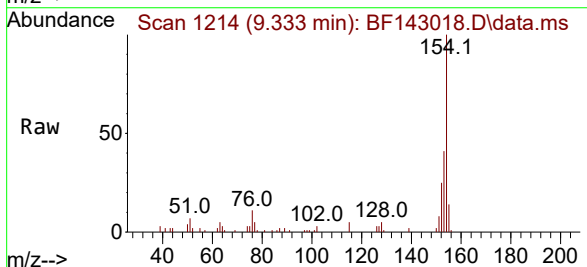
Tgt Ion:154 Resp: 22726

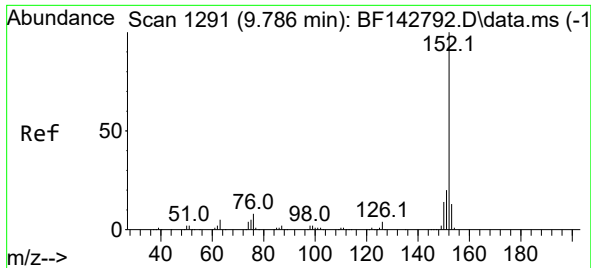
Ion Ratio Lower Upper

154 100

153 40.6 20.3 60.3

76 10.8 0.0 30.3





#49

Acenaphthylene

Concen: 5.912 ng

RT: 9.780 min Scan# 1319

Delta R.T. -0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

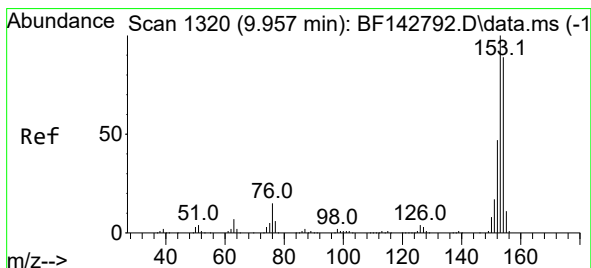
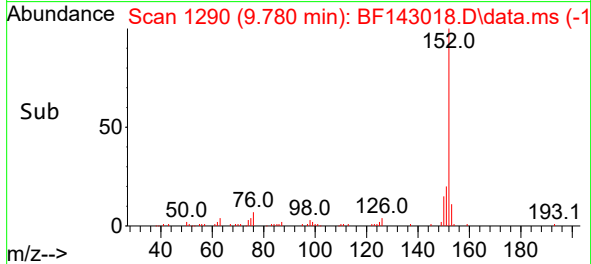
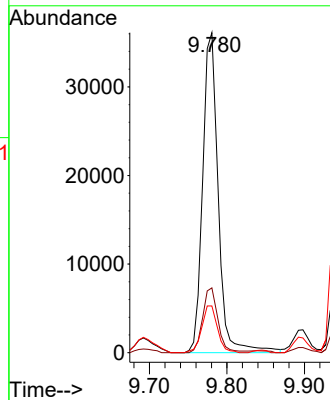
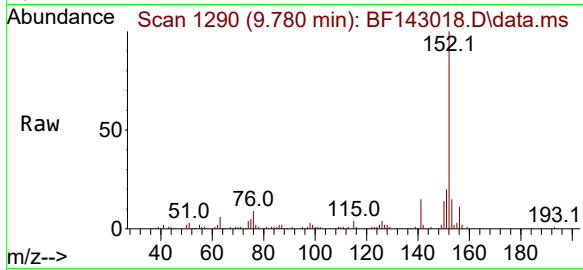
Tgt Ion:152 Resp: 50466

Ion Ratio Lower Upper

152 100

151 20.2 16.1 24.1

153 14.6 10.4 15.6



#52

Acenaphthene

Concen: 13.301 ng

RT: 9.951 min Scan# 1319

Delta R.T. -0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

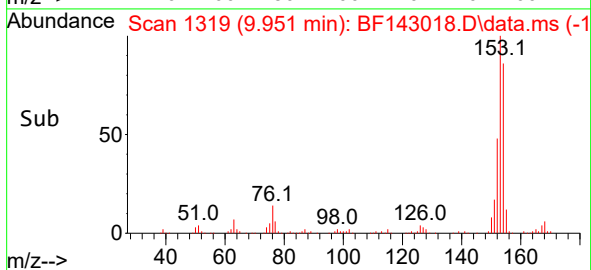
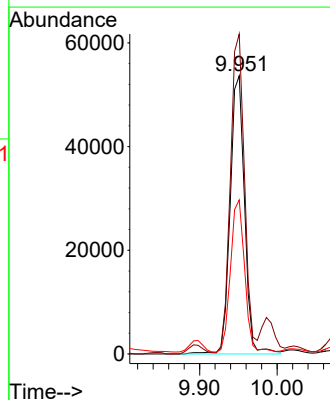
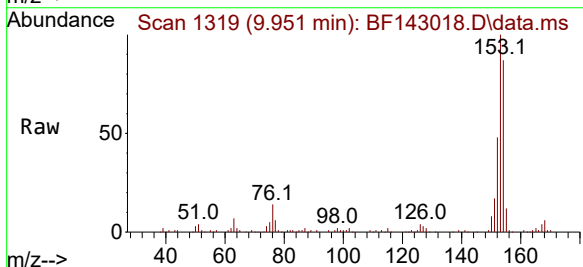
Tgt Ion:154 Resp: 69279

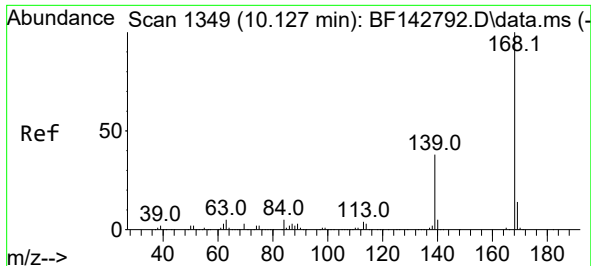
Ion Ratio Lower Upper

154 100

153 115.0 90.0 135.0

152 55.4 41.9 62.9

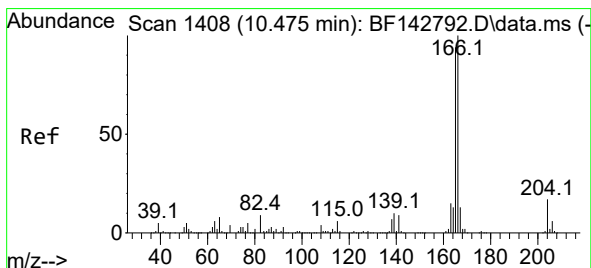
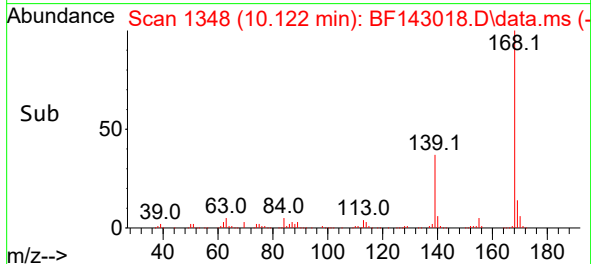
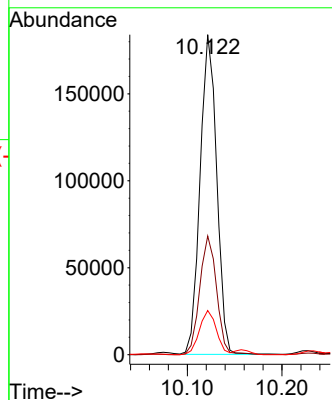
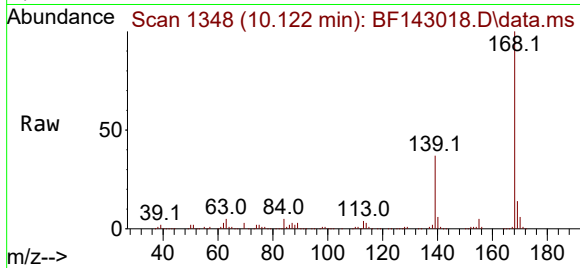




#55
Dibenzenofuran
Concen: 29.961 ng
RT: 10.122 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

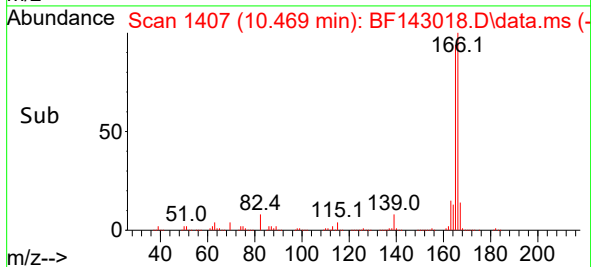
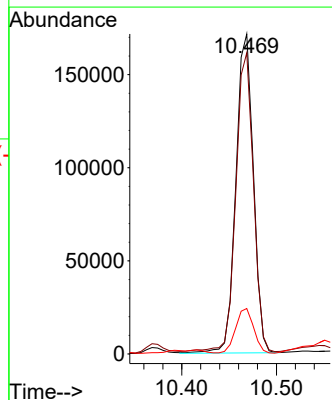
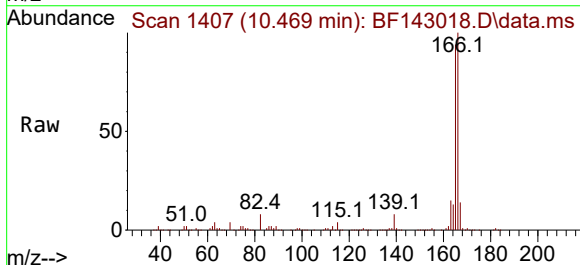
Instrument :
BNA_F
ClientSampleId :
TP-58

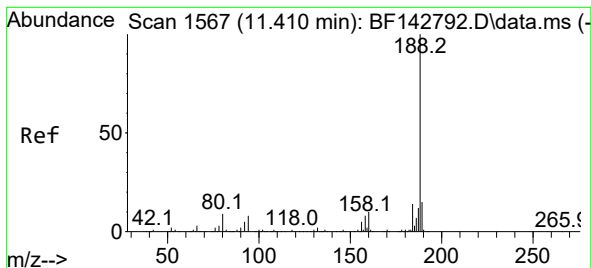
Tgt Ion:168 Resp: 223776
Ion Ratio Lower Upper
168 100
139 37.1 30.2 45.4
169 13.8 10.8 16.2



#58
Fluorene
Concen: 37.565 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion:166 Resp: 219122
Ion Ratio Lower Upper
166 100
165 94.1 75.2 112.8
167 14.2 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

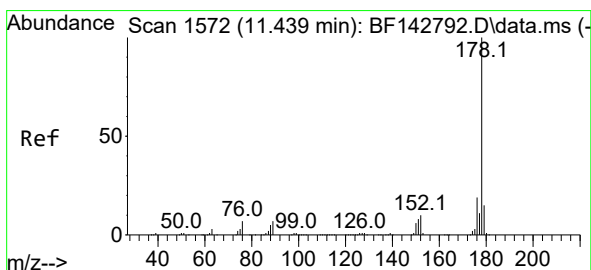
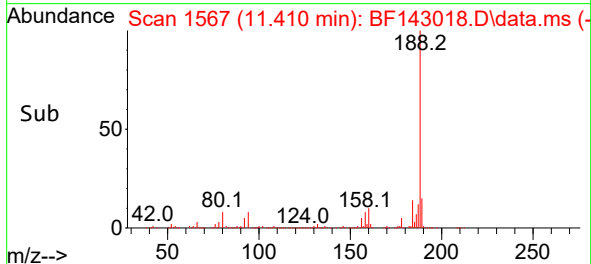
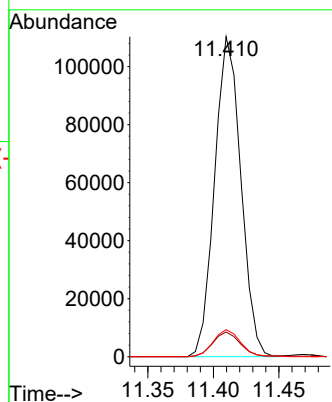
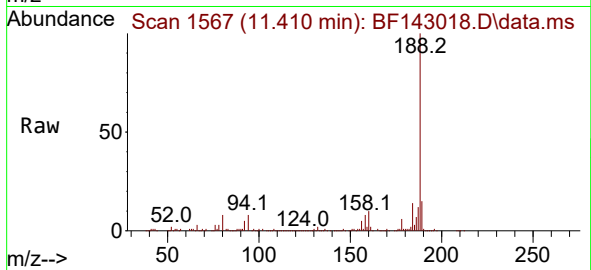
Tgt Ion:188 Resp: 153411

Ion Ratio Lower Upper

188 100

94 7.7 6.7 10.1

80 8.4 6.9 10.3



#71

Phenanthrene

Concen: 210.568 ng

RT: 11.445 min Scan# 1573

Delta R.T. 0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

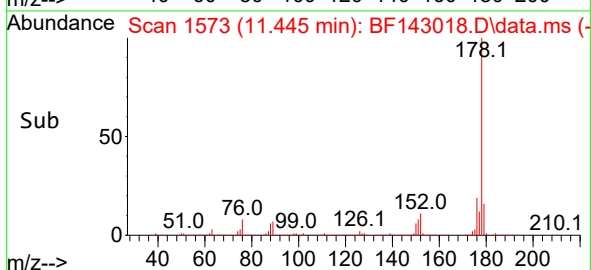
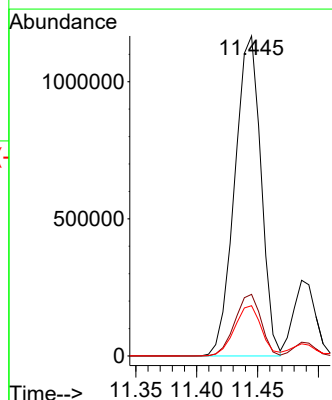
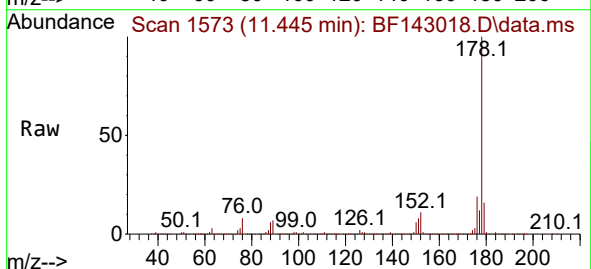
Tgt Ion:178 Resp: 1749875

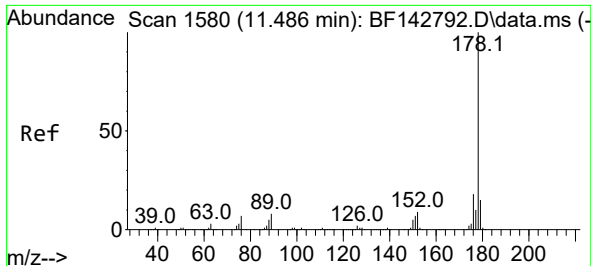
Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

179 15.7 12.0 18.0

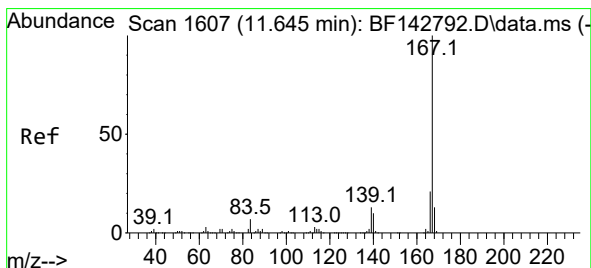
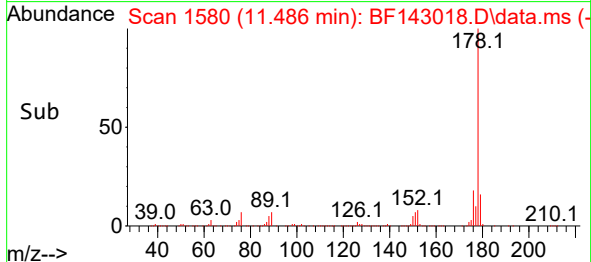
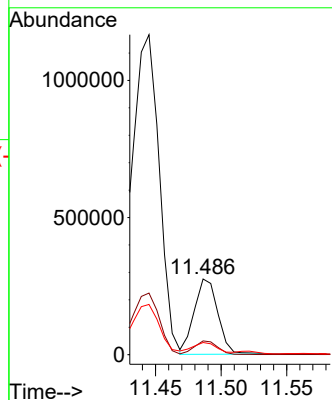
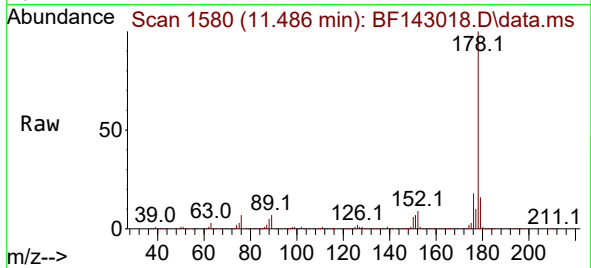




#72
 Anthracene
 Concen: 40.490 ng
 RT: 11.486 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF143018.D
 Acq: 07 Jul 2025 19:51

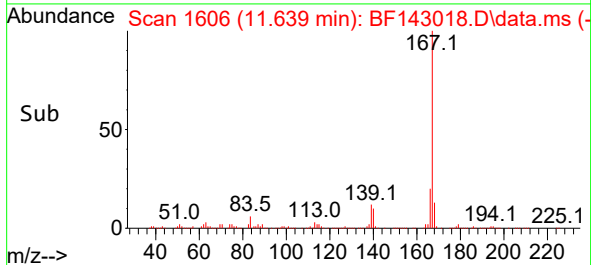
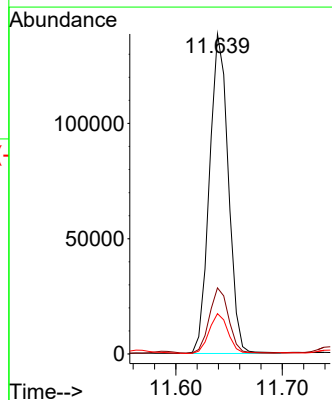
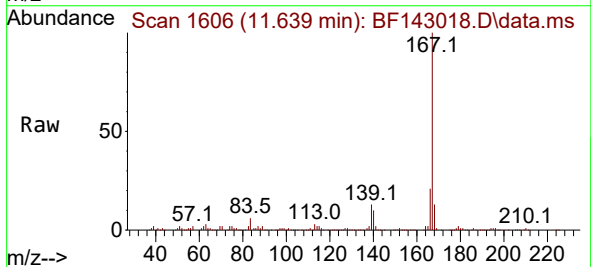
Instrument :
 BNA_F
 ClientSampleId :
 TP-58

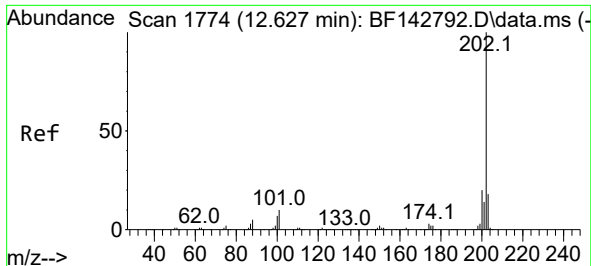
Tgt Ion:178 Resp: 345091
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 21.8
 179 16.0 12.4 18.6



#73
 Carbazole
 Concen: 23.234 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143018.D
 Acq: 07 Jul 2025 19:51

Tgt Ion:167 Resp: 170886
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.0 25.4
 139 12.6 10.2 15.2

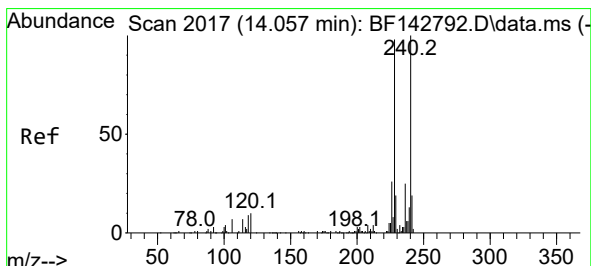
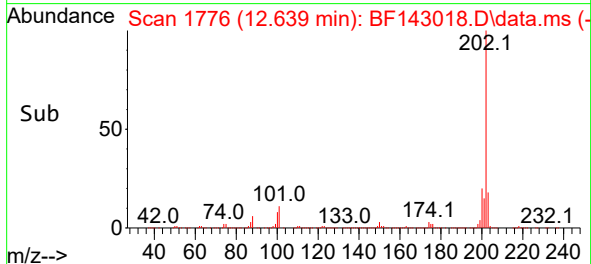
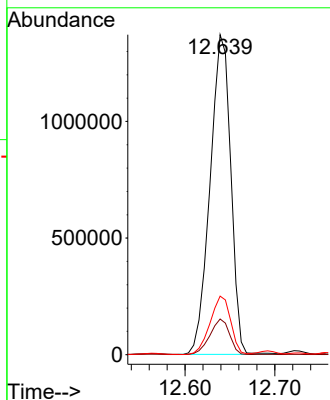
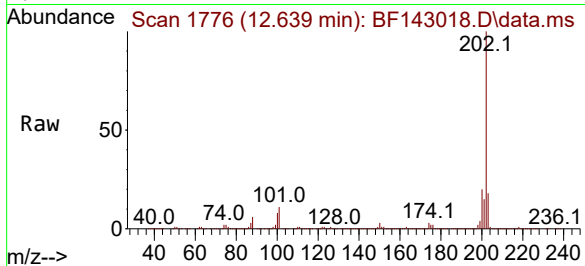




#75
Fluoranthene
Concen: 278.194 ng
RT: 12.639 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

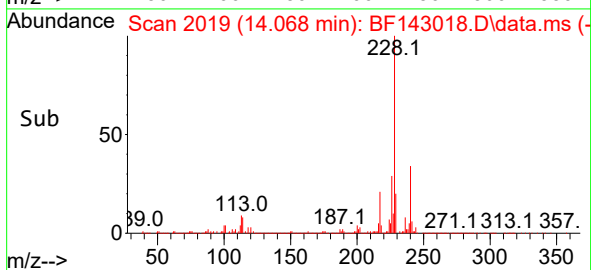
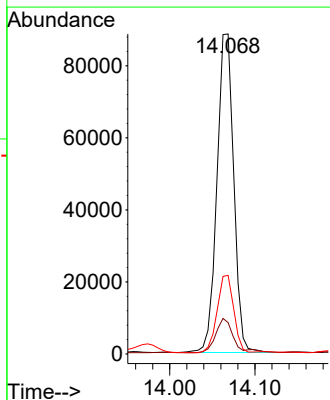
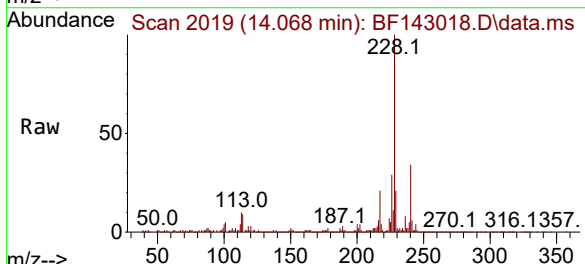
Instrument :
BNA_F
ClientSampleId :
TP-58

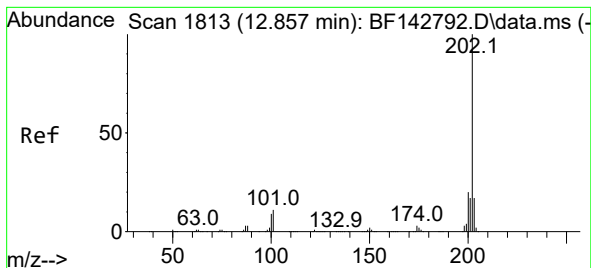
Tgt Ion:202 Resp: 2194081
Ion Ratio Lower Upper
202 100
101 11.2 0.0 29.7
203 18.3 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. 0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion:240 Resp: 121305
Ion Ratio Lower Upper
240 100
120 9.8 8.2 12.2
236 24.5 19.8 29.8





#78

Pyrene

Concen: 159.934 ng

RT: 12.868 min Scan# 1815

Delta R.T. 0.012 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

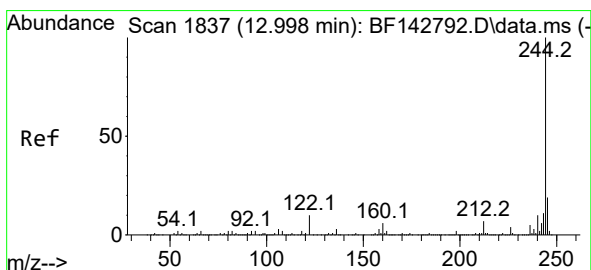
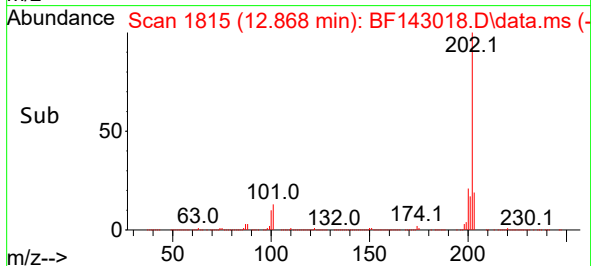
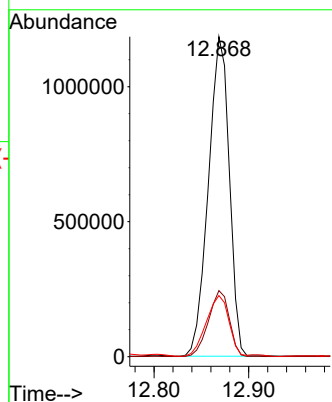
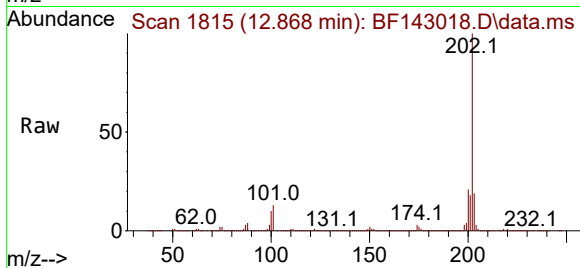
Tgt Ion:202 Resp: 1818518

Ion Ratio Lower Upper

202 100

200 20.7 15.7 23.5

203 19.1 13.8 20.6



#79

Terphenyl-d14

Concen: 33.786 ng

RT: 12.992 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

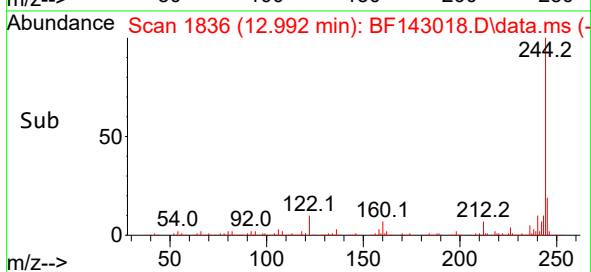
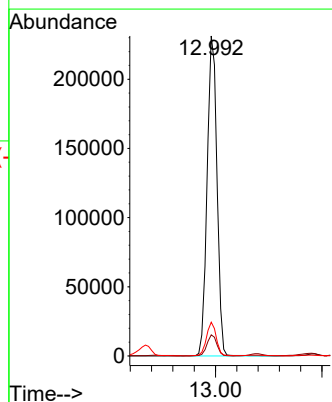
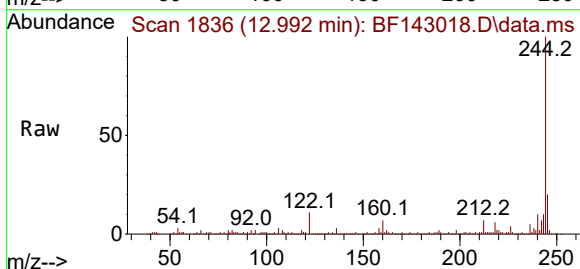
Tgt Ion:244 Resp: 296623

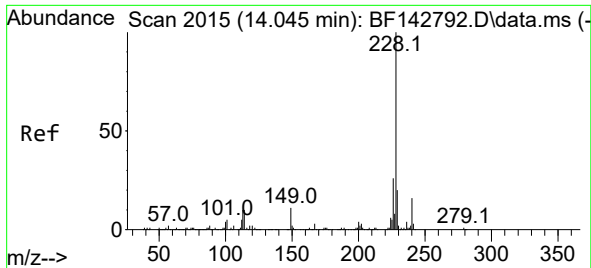
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.5 8.2 12.2

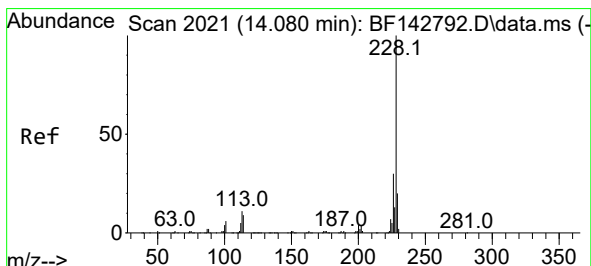
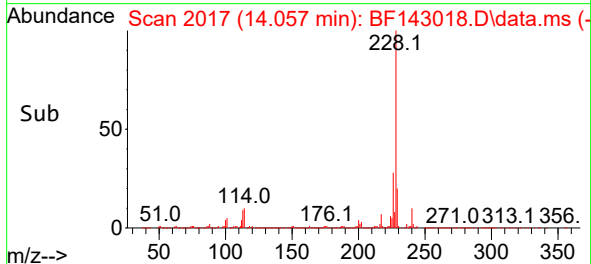
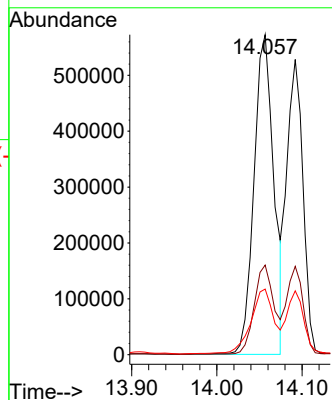
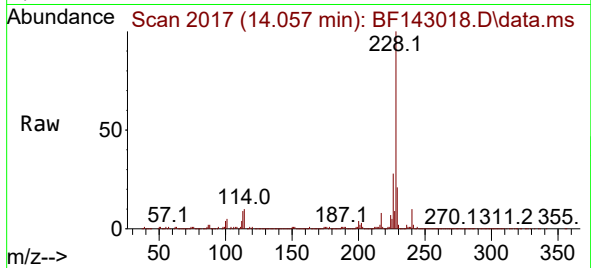




#81
Benzo(a)anthracene
Concen: 113.247 ng
RT: 14.057 min Scan# 20
Delta R.T. 0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

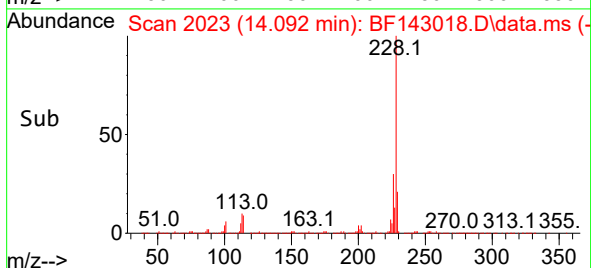
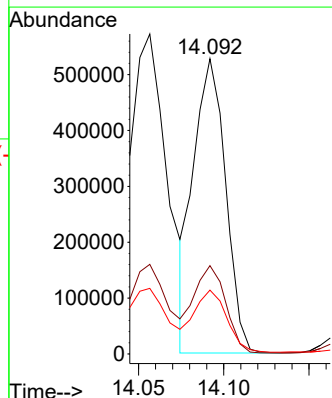
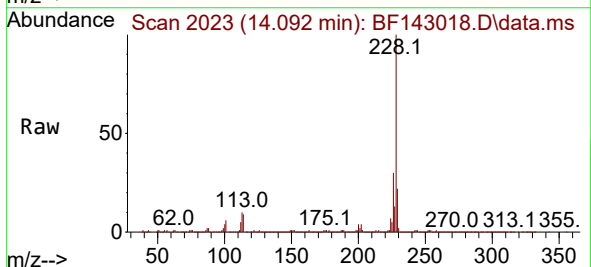
Instrument :
BNA_F
ClientSampleId :
TP-58

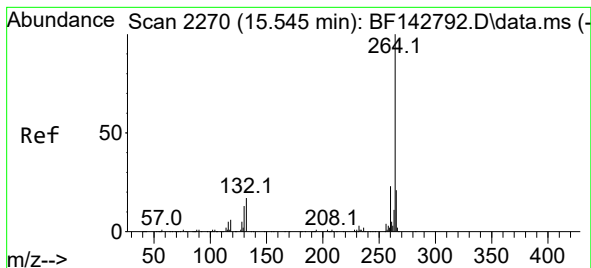
Tgt Ion:228 Resp: 926736
Ion Ratio Lower Upper
228 100
226 28.0 21.2 31.8
229 20.5 15.6 23.4



#83
Chrysene
Concen: 94.267 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.012 min
Lab File: BF143018.D
Acq: 07 Jul 2025 19:51

Tgt Ion:228 Resp: 688349
Ion Ratio Lower Upper
228 100
226 29.9 23.7 35.5
229 21.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

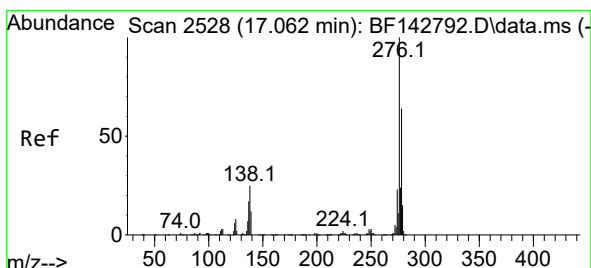
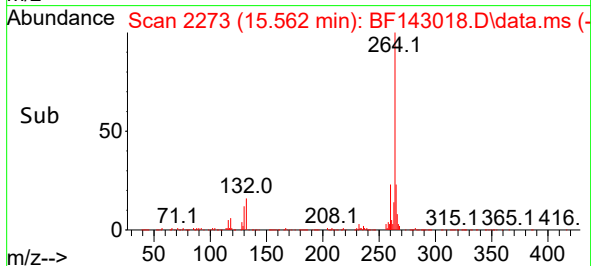
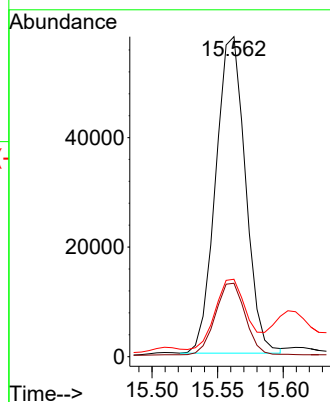
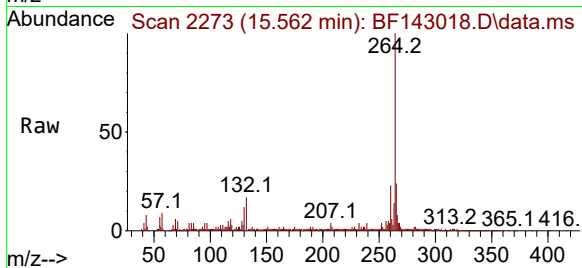
Tgt Ion:264 Resp: 91137

Ion Ratio Lower Upper

264 100

260 23.0 18.1 27.1

265 24.2 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 38.119 ng

RT: 17.080 min Scan# 2531

Delta R.T. 0.018 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

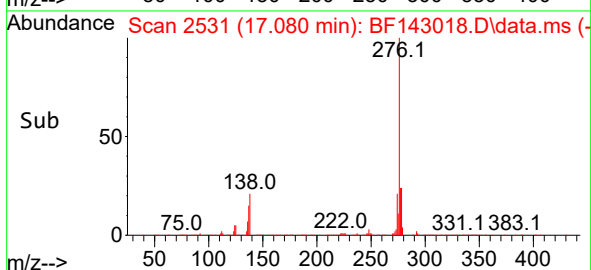
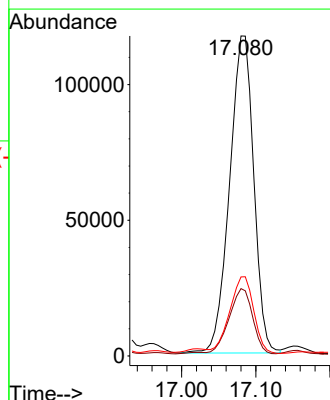
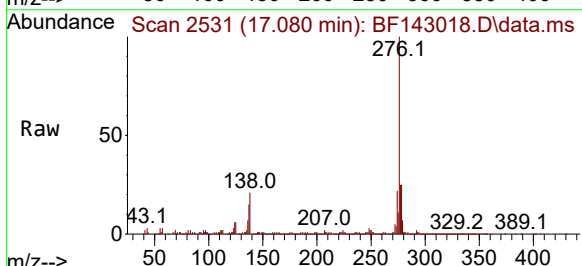
Tgt Ion:276 Resp: 264615

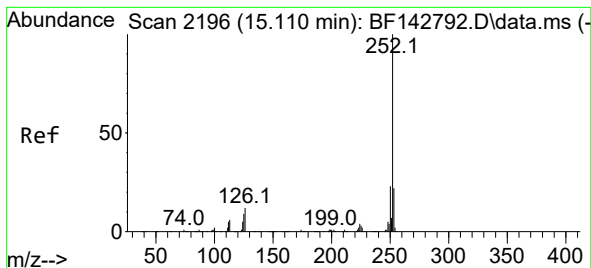
Ion Ratio Lower Upper

276 100

138 20.4 20.2 30.4

277 24.0 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 129.549 ng m

RT: 15.127 min Scan# 2199

Delta R.T. 0.018 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

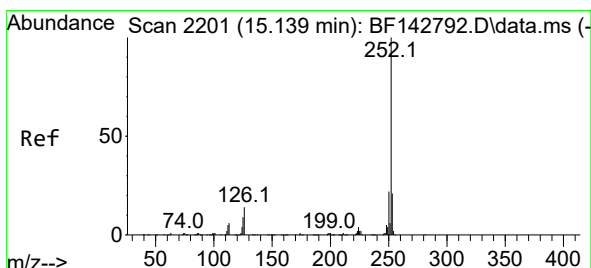
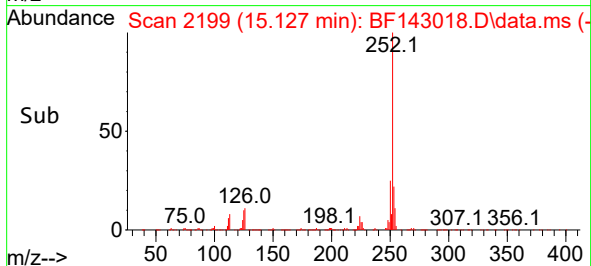
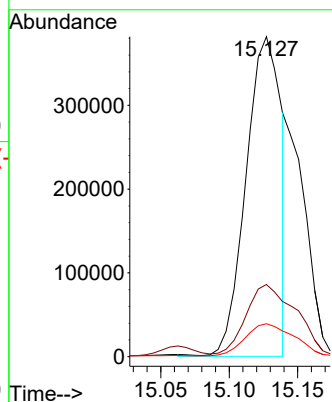
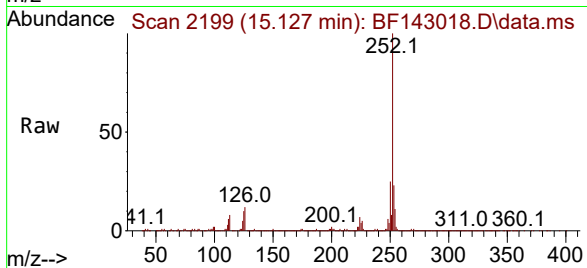
Tgt Ion:252 Resp: 683187

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 10.3 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 55.532 ng m

RT: 15.139 min Scan# 2201

Delta R.T. 0.000 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

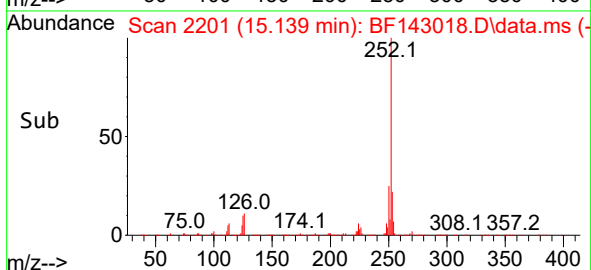
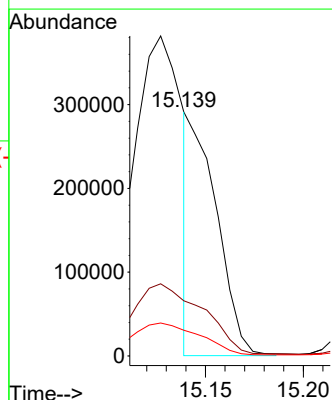
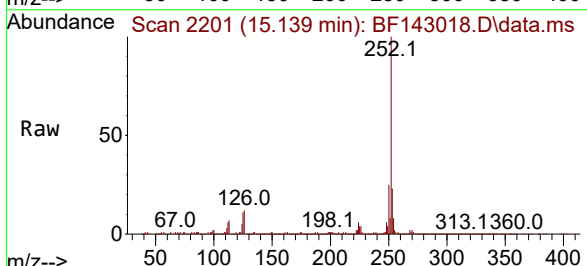
Tgt Ion:252 Resp: 273984

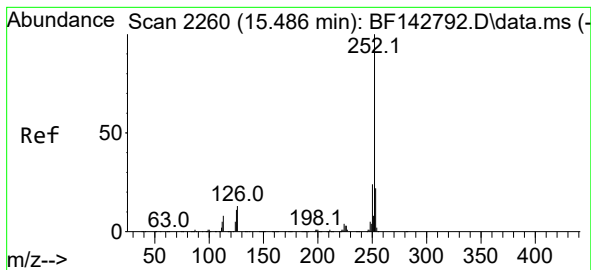
Ion Ratio Lower Upper

252 100

253 22.6 17.2 25.8

125 10.5 7.4 11.2





#90

Benzo(a)pyrene

Concen: 85.268 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

Instrument :

BNA_F

ClientSampleId :

TP-58

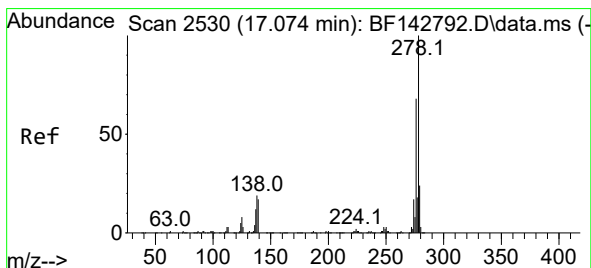
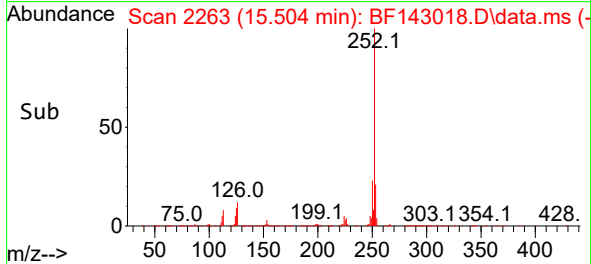
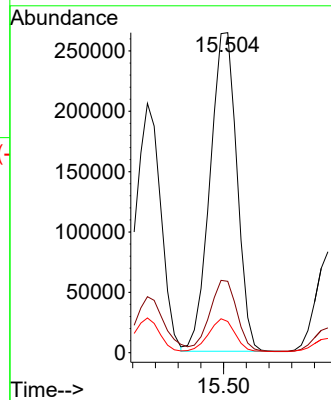
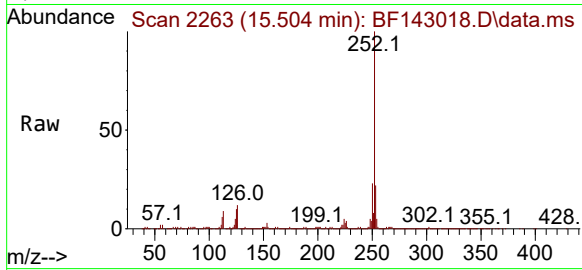
Tgt Ion:252 Resp: 434413

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 9.8 8.6 12.8



#91

Dibenzo(a,h)anthracene

Concen: 11.666 ng m

RT: 17.086 min Scan# 2532

Delta R.T. 0.012 min

Lab File: BF143018.D

Acq: 07 Jul 2025 19:51

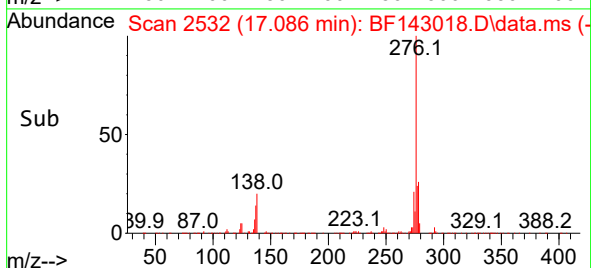
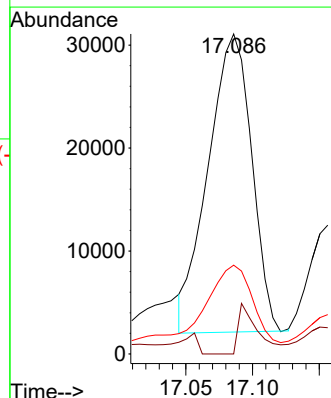
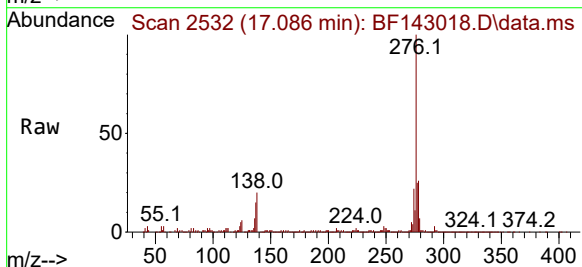
Tgt Ion:278 Resp: 65799

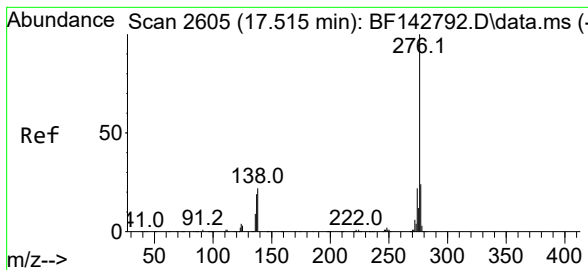
Ion Ratio Lower Upper

278 100

139 0.0 13.5 20.3#

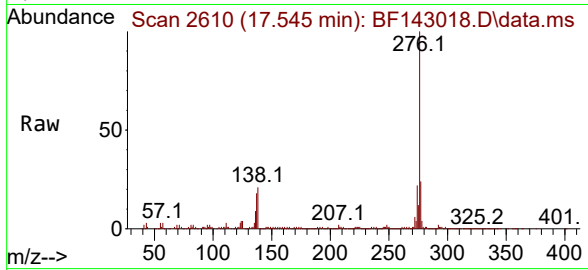
279 27.8 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 43.074 ng
 RT: 17.545 min Scan# 20
 Delta R.T. 0.029 min
 Lab File: BF143018.D
 Acq: 07 Jul 2025 19:51

Instrument :
 BNA_F
 ClientSampleId :
 TP-58



Tgt Ion: 276 Resp: 242264

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.8	28.2
138	20.6	17.6	26.4

