

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070725\
 Data File : BF143020.D
 Acq On : 07 Jul 2025 20:51
 Operator : RC/JU
 Sample : Q2473-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIT#1

Quant Time: Jul 08 00:59:25 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)

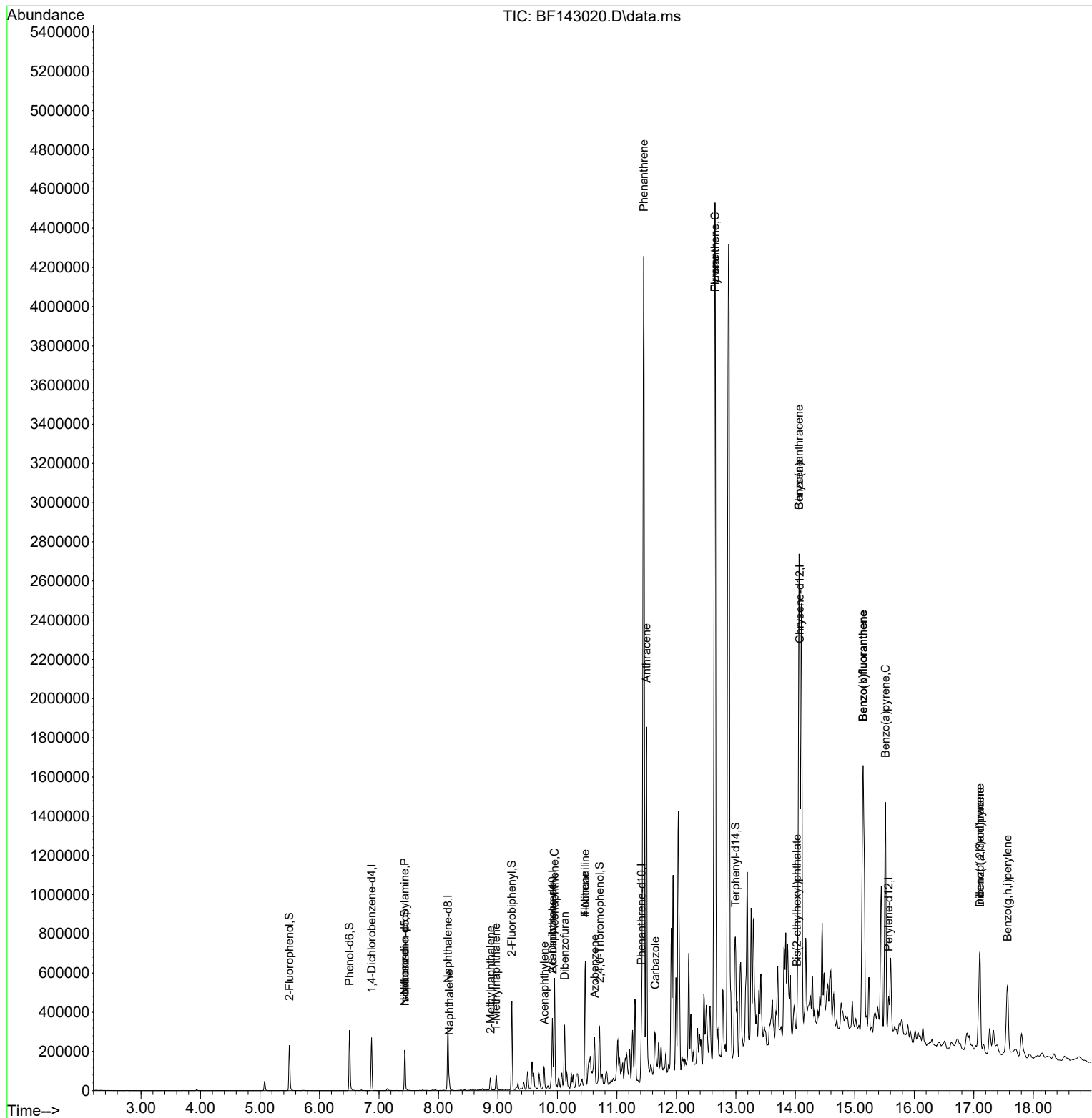
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	58496	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	207180	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	104486	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	183059	20.000	ng	0.00
76) Chrysene-d12	14.074	240	128705	20.000	ng	0.02
86) Perylene-d12	15.568	264	102828	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	93492	26.610	ng	0.00
7) Phenol-d6	6.504	99	144358	34.826	ng	0.00
23) Nitrobenzene-d5	7.433	82	87043	23.045	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	13691	12.733	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	196877	24.753	ng	-0.01
79) Terphenyl-d14	12.998	244	219359	23.549	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.433	70	11552	4.792	ng	# 77
25) Isophorone	7.433	82	87041	14.365	ng	# 62
31) Naphthalene	8.180	128	28711	2.831	ng	99
37) 2-Methylnaphthalene	8.875	142	24938	3.967	ng	100
38) 1-Methylnaphthalene	8.969	142	28845	4.432	ng	100
49) Acenaphthylene	9.780	152	51215	5.023	ng	97
51) 2,6-Dinitrotoluene	9.916	165	17387	11.706	ng	# 28
52) Acenaphthene	9.951	154	168399	27.069	ng	99
55) Dibenzofuran	10.122	168	148823	16.683	ng	98
58) Fluorene	10.469	166	243461	34.944	ng	99
62) 4-Nitroaniline	10.469	138	2992	2.000	ng	# 25
63) Azobenzene	10.627	77	16066	2.711	ng	# 1
71) Phenanthrene	11.451	178	2904839	292.936	ng	98
72) Anthracene	11.498	178	1019032	100.199	ng	99
73) Carbazole	11.645	167	102508	11.680	ng	98
75) Fluoranthene	12.651	202	3644986	387.308	ng	97
78) Pyrene	12.651	202	3644986	302.136	ng	97
81) Benzo(a)anthracene	14.062	228	1528136	176.001	ng	96
83) Chrysene	14.062	228	1528136	197.240	ng	96
84) Bis(2-ethylhexyl)phtha...	14.027	149	19810	3.935	ng	# 92
87) Indeno(1,2,3-cd)pyrene	17.103	276	403195	51.478	ng	# 93
88) Benzo(b)fluoranthene	15.139	252	1425170	239.521	ng	97
89) Benzo(k)fluoranthene	15.139	252	1425170	256.014	ng	97
90) Benzo(a)pyrene	15.515	252	802628	139.631	ng	98
91) Dibenzo(a,h)anthracene	17.103	278	104257	16.383	ng	94
92) Benzo(g,h,i)perylene	17.568	276	352094	55.484	ng	97

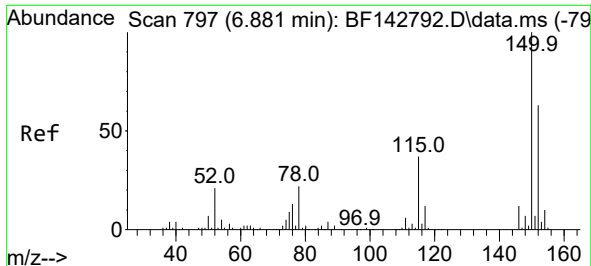
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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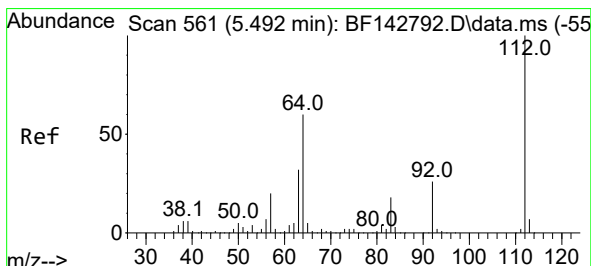
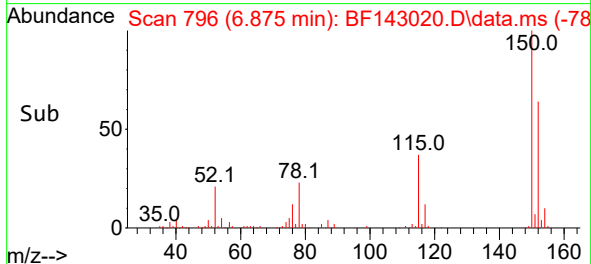
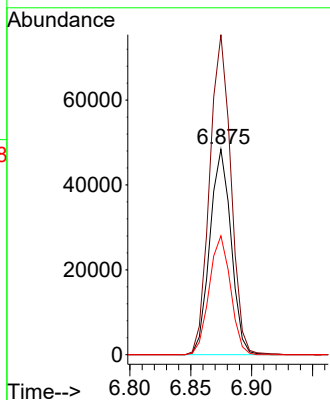
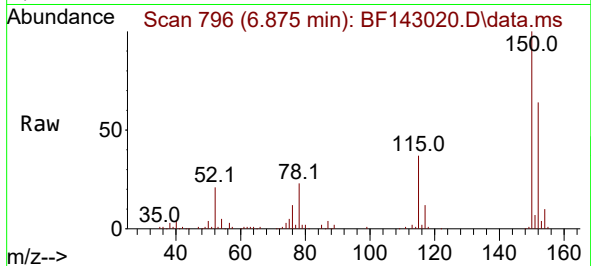




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

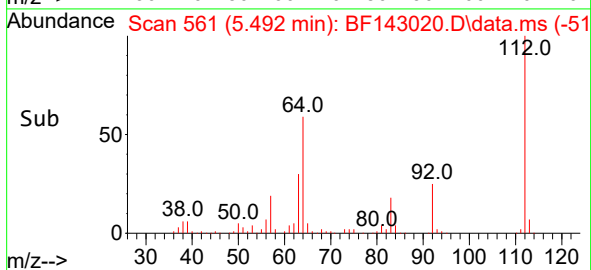
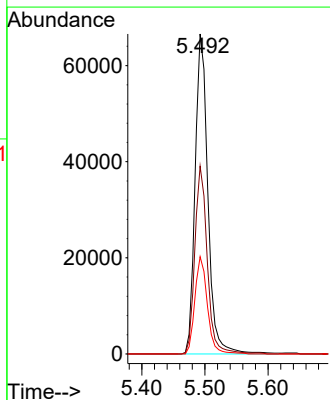
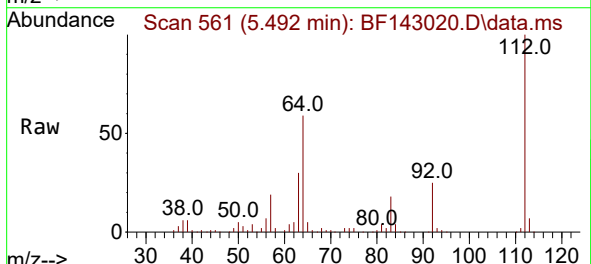
Instrument :
BNA_F
ClientSampleId :
PIT#1

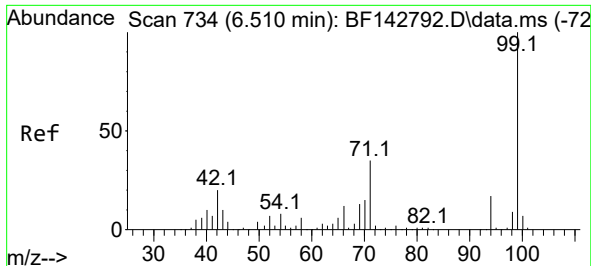
Tgt Ion:152 Resp: 58496
Ion Ratio Lower Upper
152 100
150 155.7 127.2 190.8
115 57.9 46.6 69.8



#5
2-Fluorophenol
Concen: 26.610 ng
RT: 5.492 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:112 Resp: 93492
Ion Ratio Lower Upper
112 100
64 58.7 48.2 72.2
63 30.4 25.7 38.5

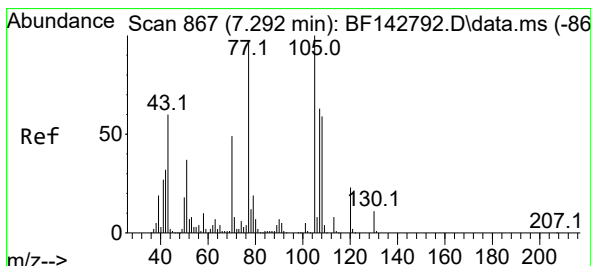
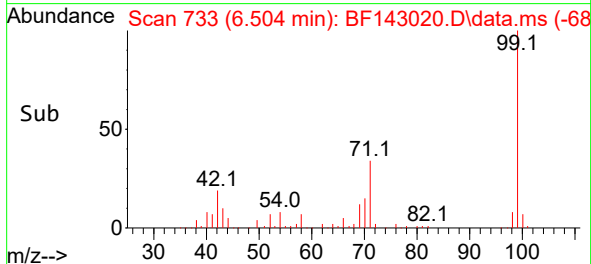
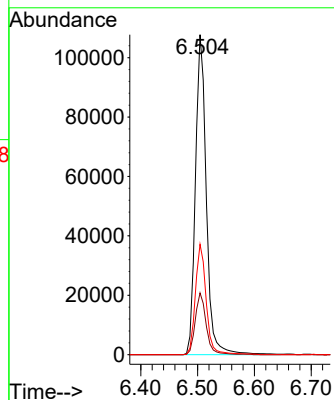
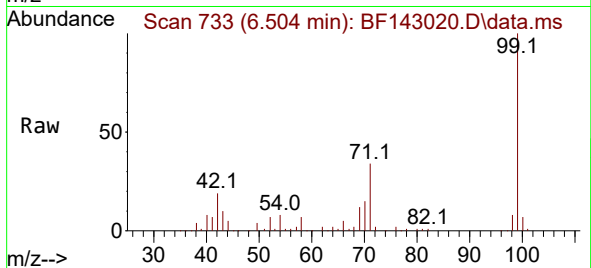




#7
Phenol-d6
Concen: 34.826 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

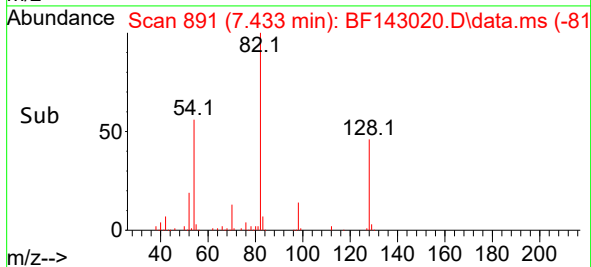
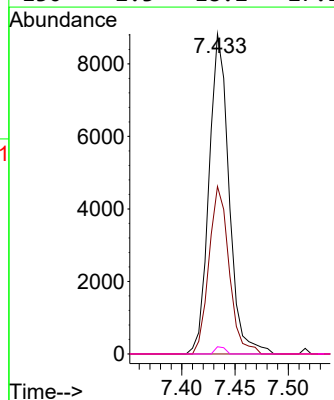
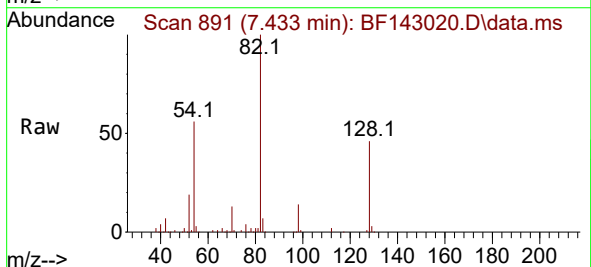
Instrument :
BNA_F
ClientSampleId :
PIT#1

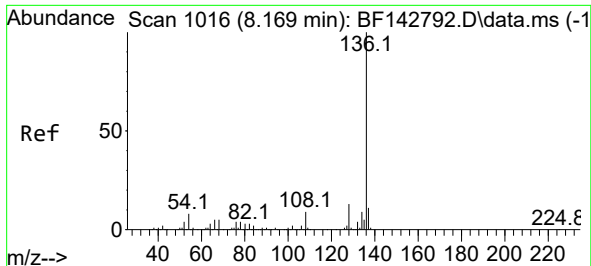
Tgt Ion: 99 Resp: 144358
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 34.5 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 4.792 ng
RT: 7.433 min Scan# 891
Delta R.T. 0.141 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion: 70 Resp: 11552
Ion Ratio Lower Upper
70 100
42 52.3 52.1 78.1
101 0.0 8.2 12.2#
130 2.3 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: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

Tgt Ion:136 Resp: 207180

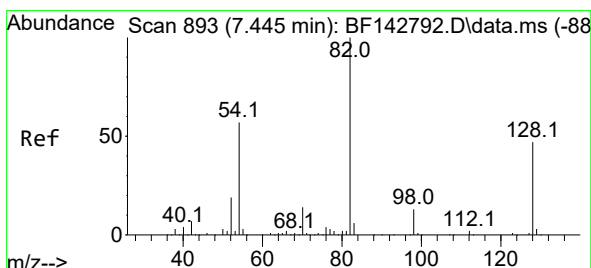
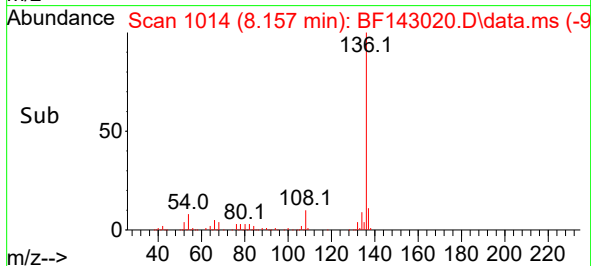
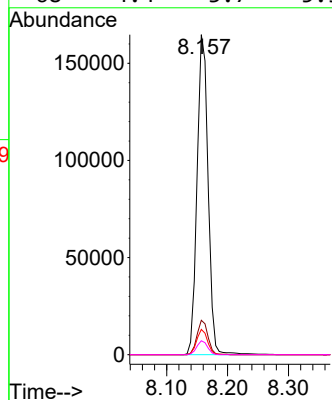
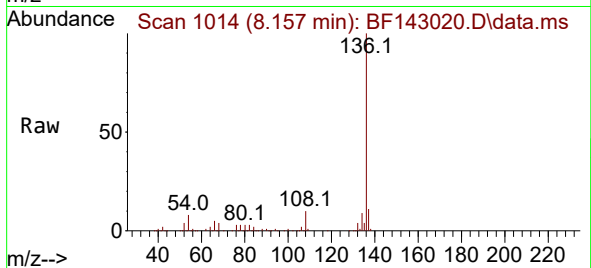
Ion Ratio Lower Upper

136 100

137 10.8 8.4 12.6

54 7.9 6.3 9.5

68 4.4 3.7 5.5



#23

Nitrobenzene-d5

Concen: 23.045 ng

RT: 7.433 min Scan# 891

Delta R.T. -0.012 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

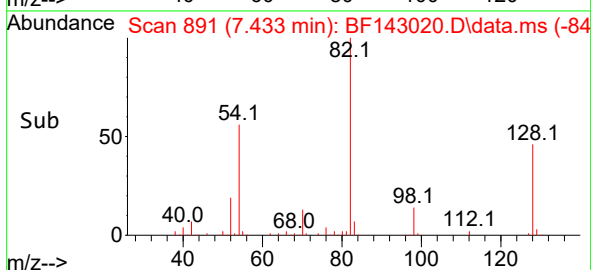
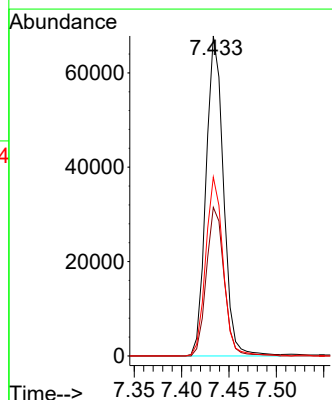
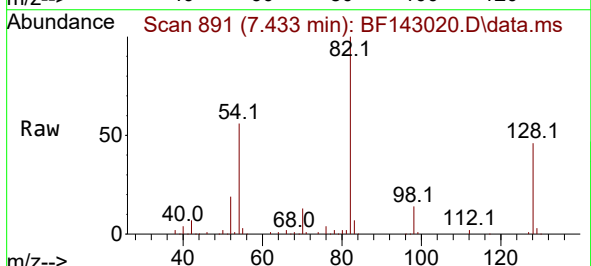
Tgt Ion: 82 Resp: 87043

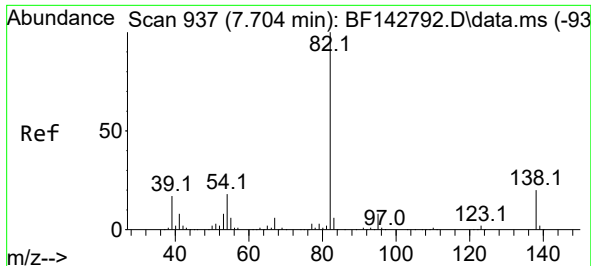
Ion Ratio Lower Upper

82 100

128 46.4 37.7 56.5

54 55.9 45.7 68.5

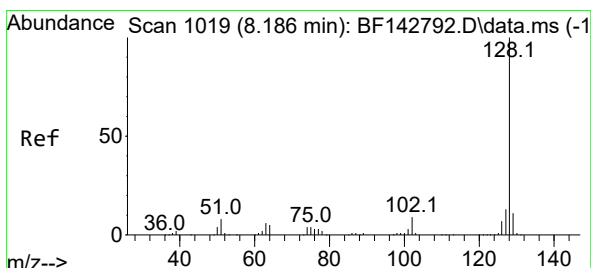
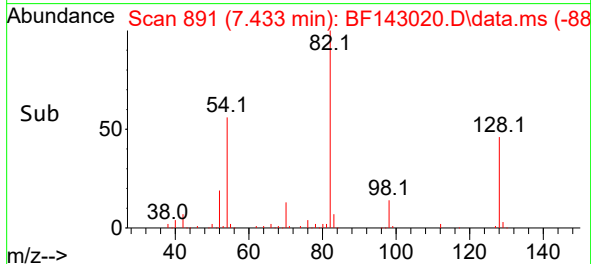
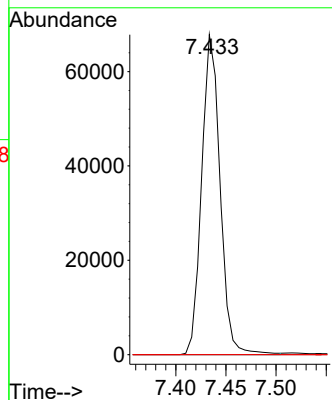
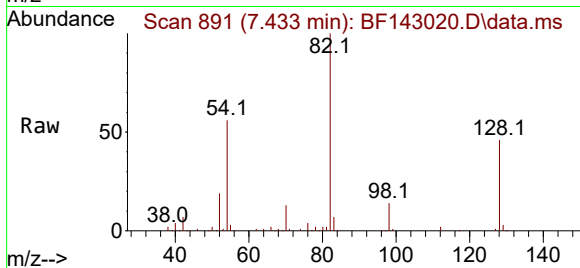




#25
Isophorone
Concen: 14.365 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.271 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

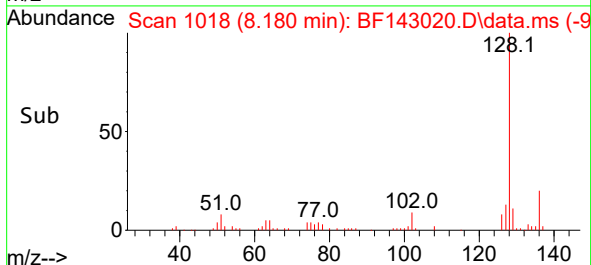
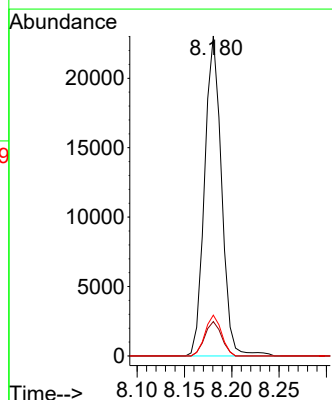
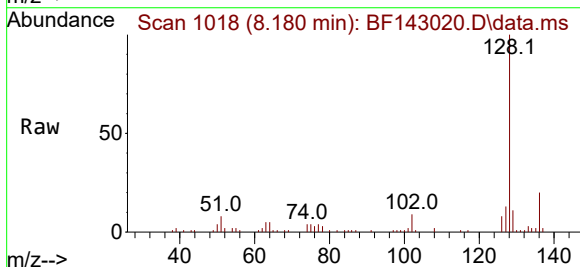
Instrument :
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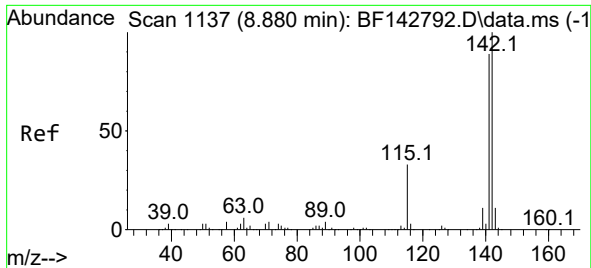
Tgt Ion: 82 Resp: 87041
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#31
Naphthalene
Concen: 2.831 ng
RT: 8.180 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion: 128 Resp: 28711
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.8 10.4 15.6

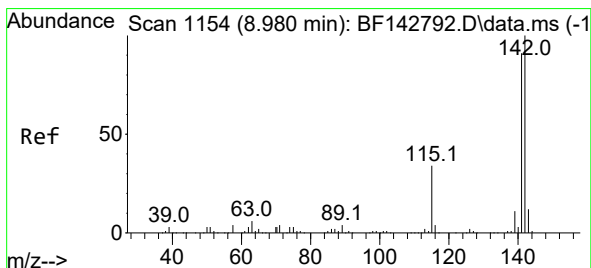
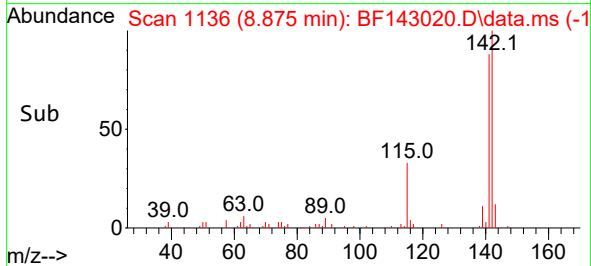
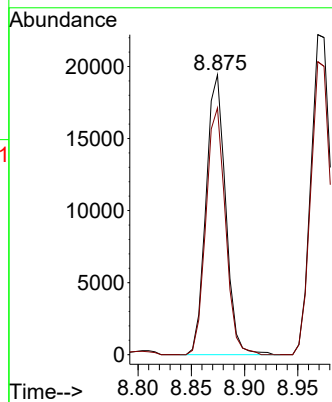
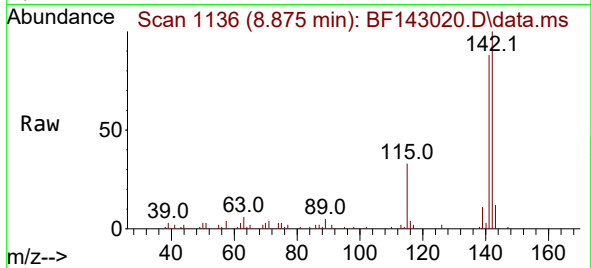




#37
2-Methylnaphthalene
Concen: 3.967 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

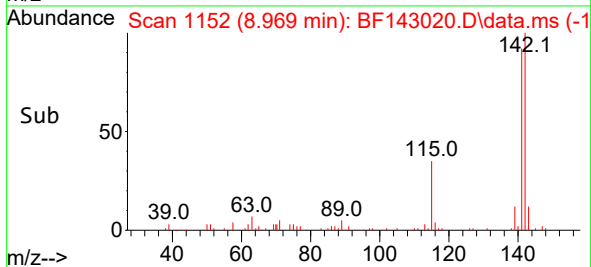
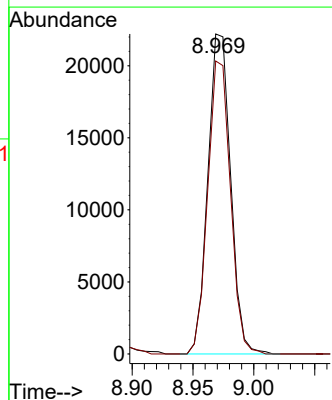
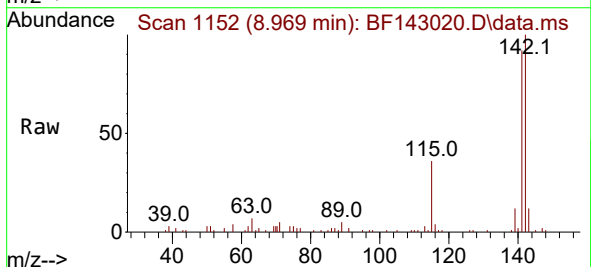
Instrument :
BNA_F
ClientSampleId :
PIT#1

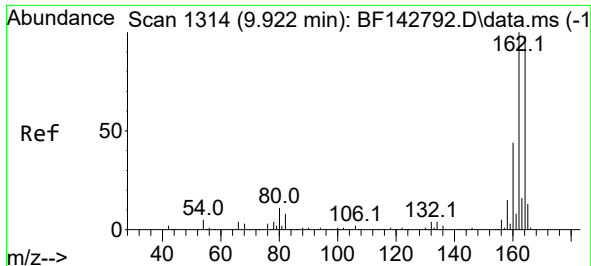
Tgt Ion:142 Resp: 24938
Ion Ratio Lower Upper
142 100
141 88.2 70.9 106.3



#38
1-Methylnaphthalene
Concen: 4.432 ng
RT: 8.969 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:142 Resp: 28845
Ion Ratio Lower Upper
142 100
141 91.6 73.0 109.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

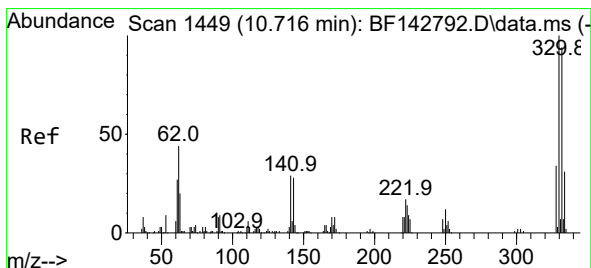
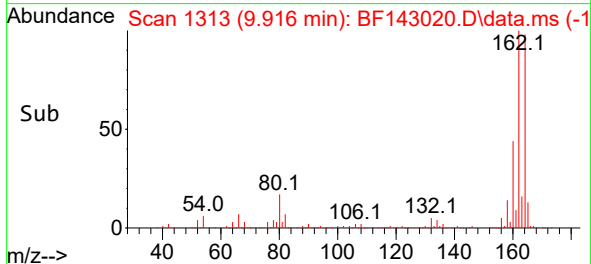
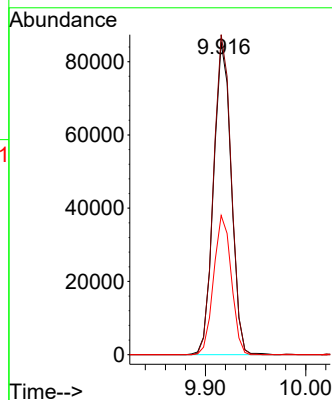
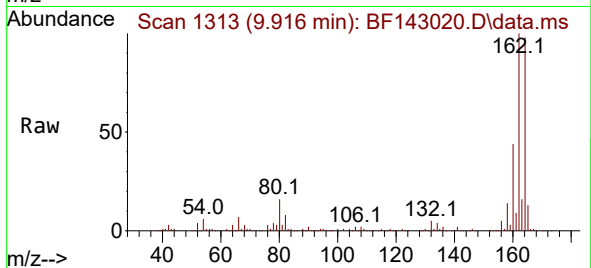
Tgt Ion:164 Resp: 104486

Ion Ratio Lower Upper

164 100

162 102.5 81.8 122.8

160 44.6 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 12.733 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

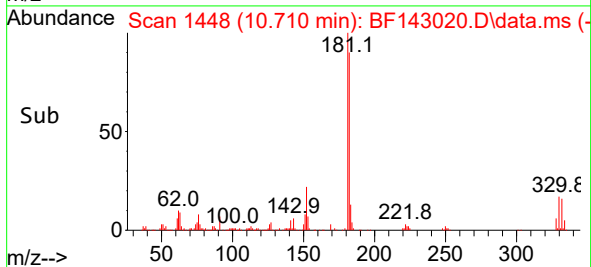
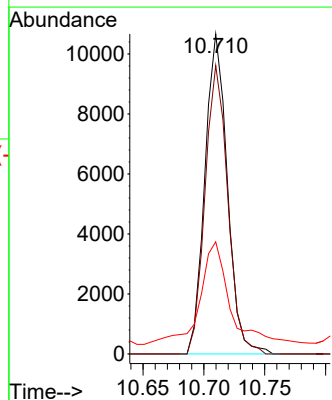
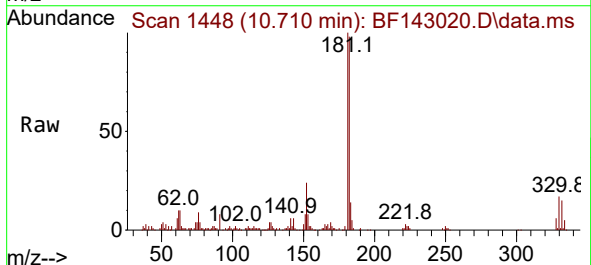
Tgt Ion:330 Resp: 13691

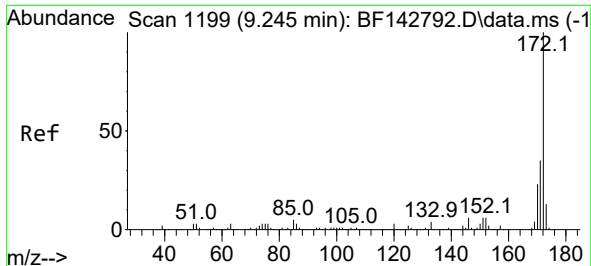
Ion Ratio Lower Upper

330 100

332 91.4 75.0 112.6

141 43.0 25.3 37.9#





#45

2-Fluorobiphenyl

Concen: 24.753 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

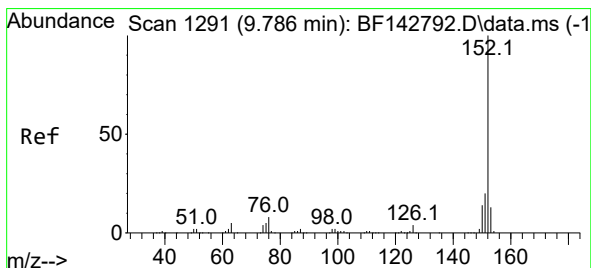
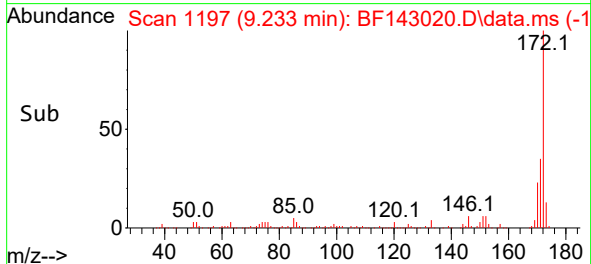
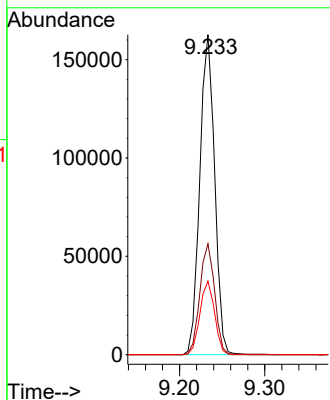
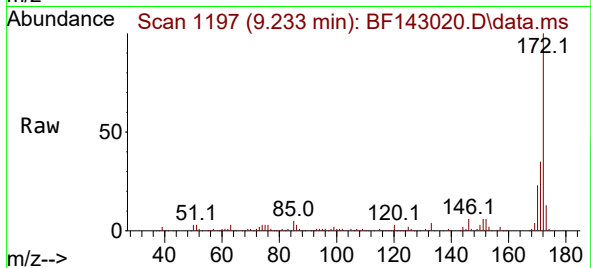
Tgt Ion:172 Resp: 196877

Ion Ratio Lower Upper

172 100

171 34.7 28.2 42.4

170 22.9 18.5 27.7



#49

Acenaphthylene

Concen: 5.023 ng

RT: 9.780 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

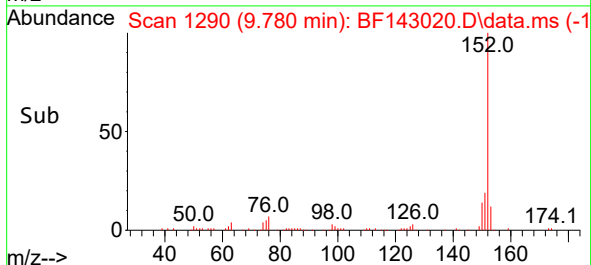
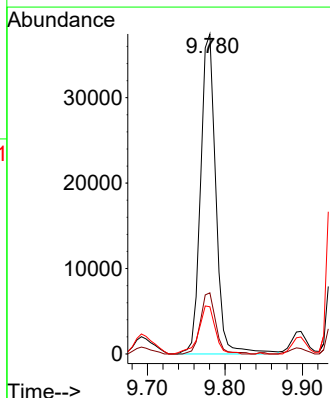
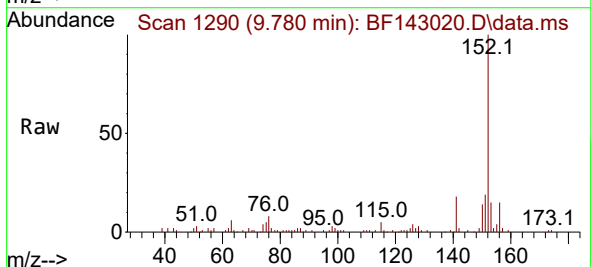
Tgt Ion:152 Resp: 51215

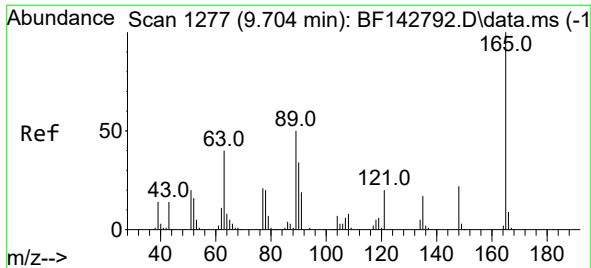
Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

153 14.8 10.4 15.6

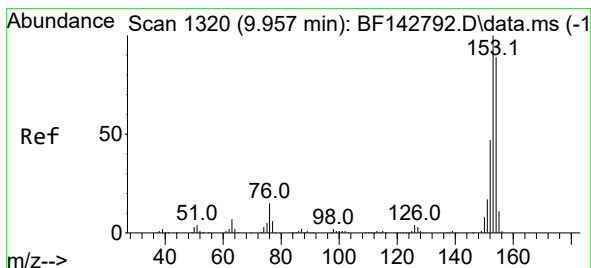
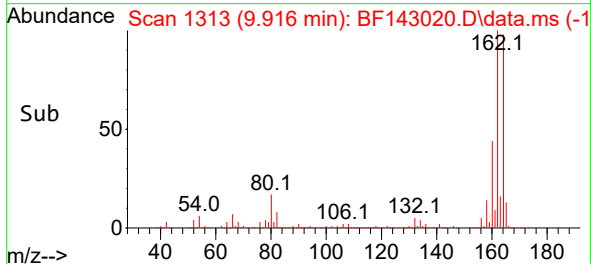
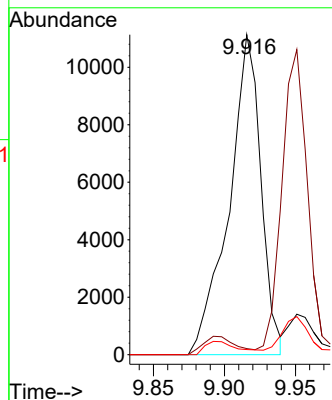
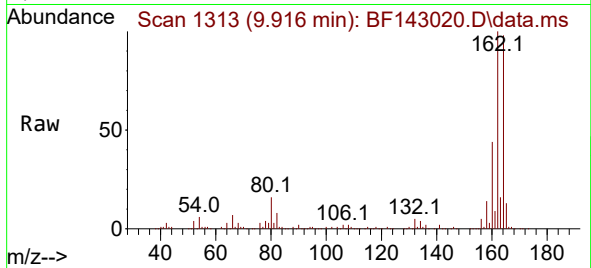




#51
2,6-Dinitrotoluene
Concen: 11.706 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

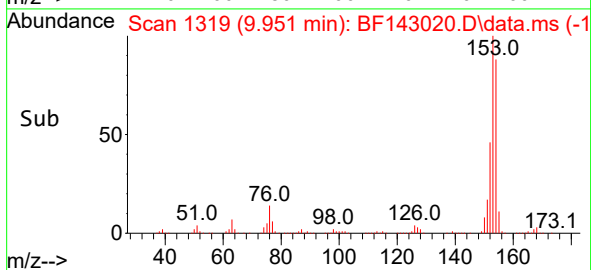
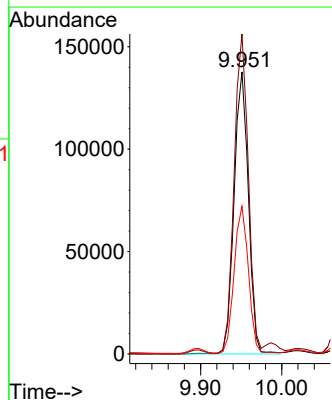
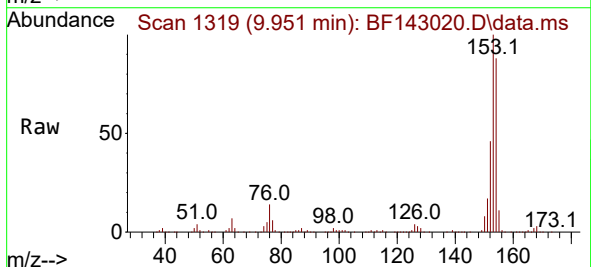
Instrument :
BNA_F
ClientSampleId :
PIT#1

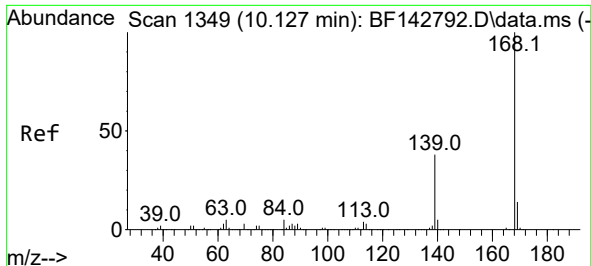
Tgt Ion:165 Resp: 17387
Ion Ratio Lower Upper
165 100
63 1.9 44.2 66.4#
89 1.6 39.8 59.8#



#52
Acenaphthene
Concen: 27.069 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:154 Resp: 168399
Ion Ratio Lower Upper
154 100
153 113.4 90.0 135.0
152 52.4 41.9 62.9





#55

Dibenzenofuran

Concen: 16.683 ng

RT: 10.122 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

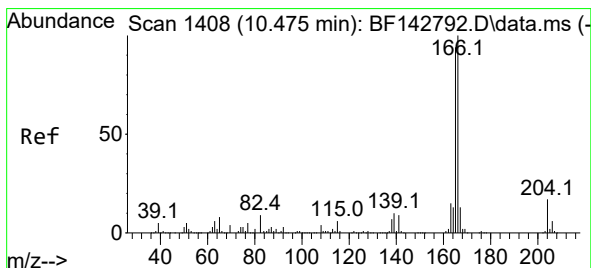
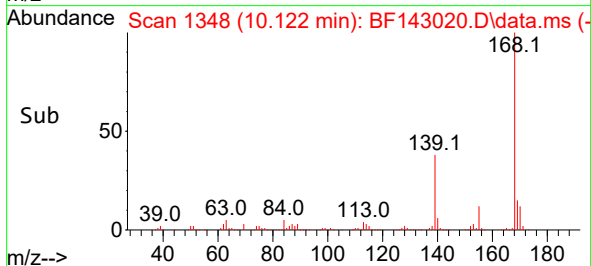
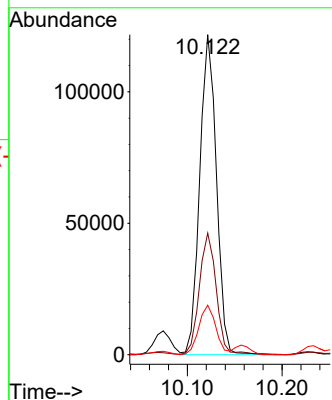
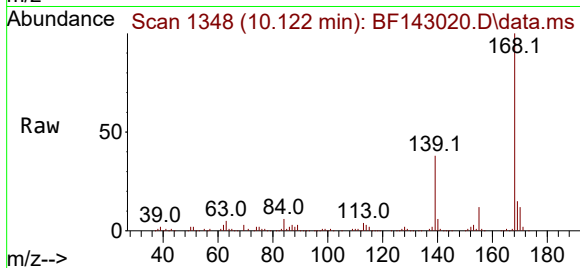
Tgt Ion:168 Resp: 148823

Ion Ratio Lower Upper

168 100

139 38.0 30.2 45.4

169 15.5 10.8 16.2



#58

Fluorene

Concen: 34.944 ng

RT: 10.469 min Scan# 1407

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

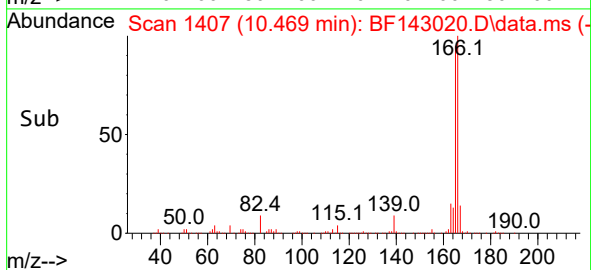
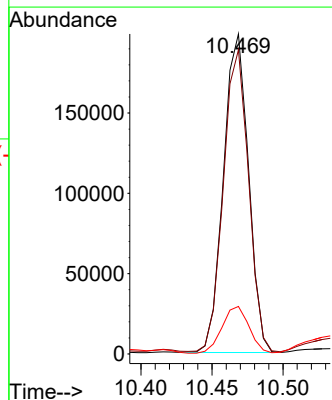
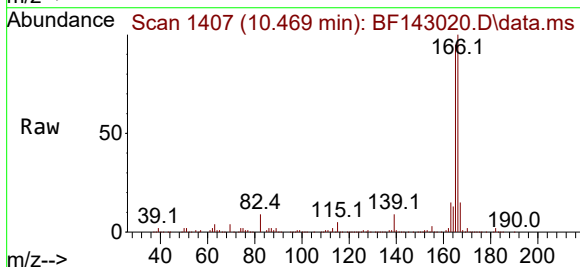
Tgt Ion:166 Resp: 243461

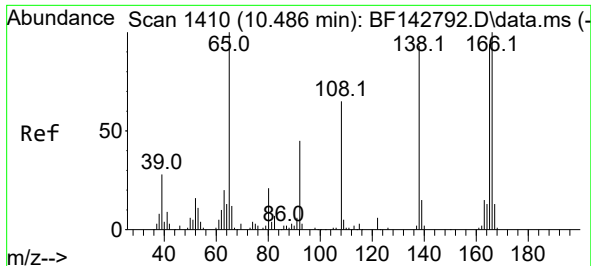
Ion Ratio Lower Upper

166 100

165 95.1 75.2 112.8

167 14.9 10.6 15.8

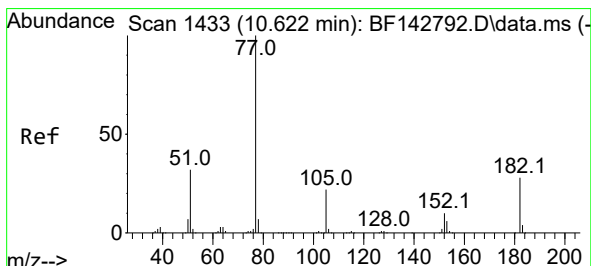
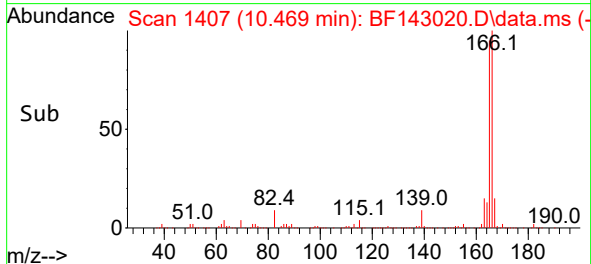
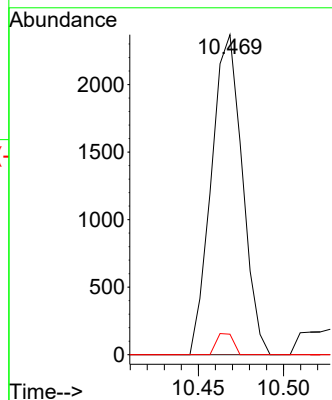
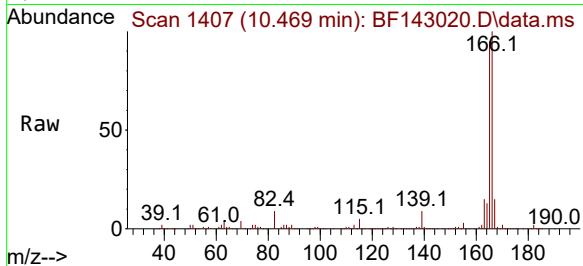




#62
4-Nitroaniline
Concen: 2.000 ng
RT: 10.469 min Scan# 1410
Delta R.T. -0.018 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

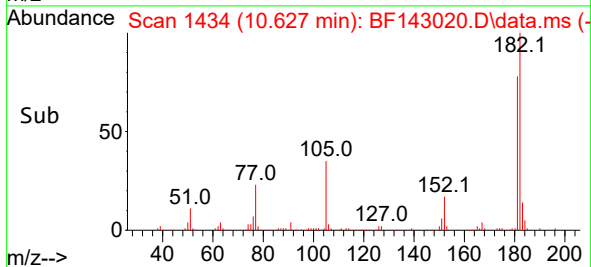
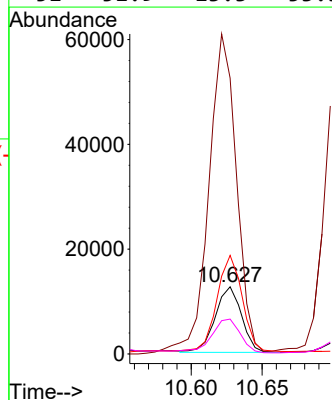
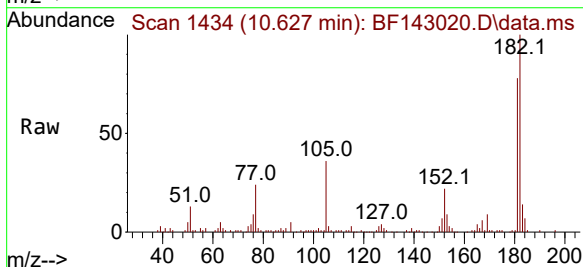
Instrument :
BNA_F
ClientSampleId :
PIT#1

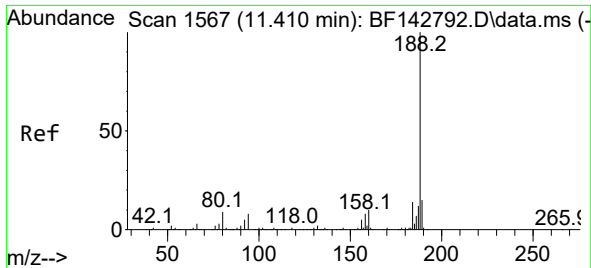
Tgt Ion:138 Resp: 2992
Ion Ratio Lower Upper
138 100
92 0.0 28.4 68.4#
108 6.4 50.2 90.2#



#63
Azobenzene
Concen: 2.711 ng
RT: 10.627 min Scan# 1434
Delta R.T. 0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion: 77 Resp: 16066
Ion Ratio Lower Upper
77 100
182 410.1 7.7 47.7#
105 146.5 1.9 41.9#
51 51.9 13.3 53.3

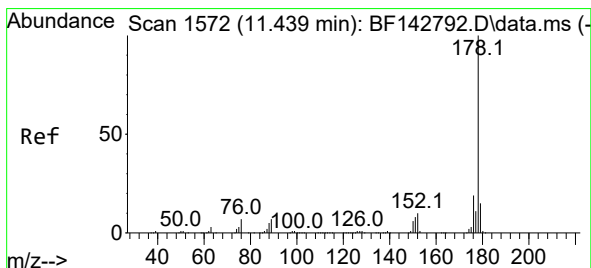
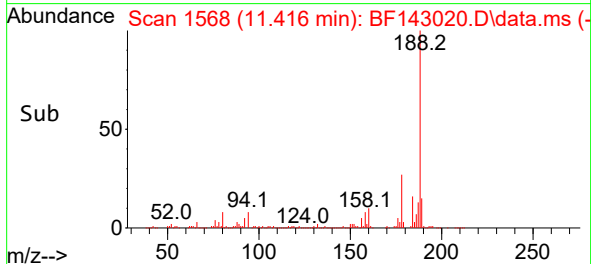
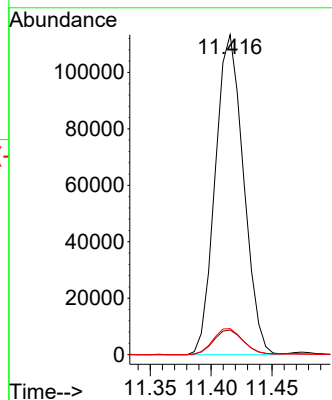
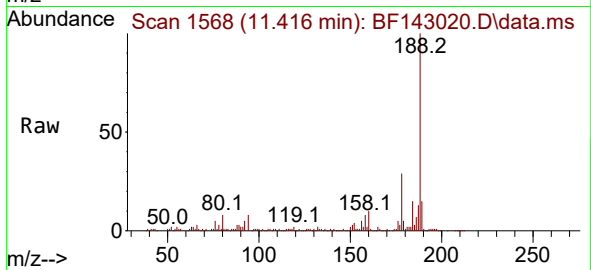




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

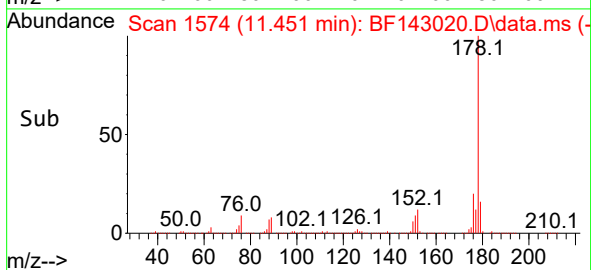
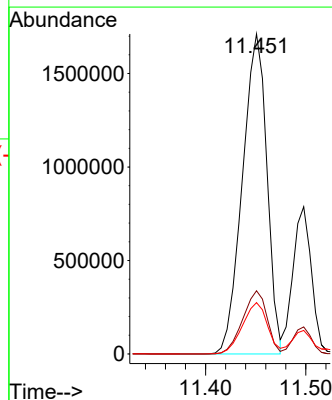
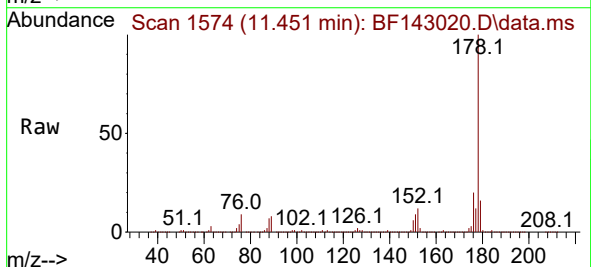
Instrument :
BNA_F
ClientSampleId :
PIT#1

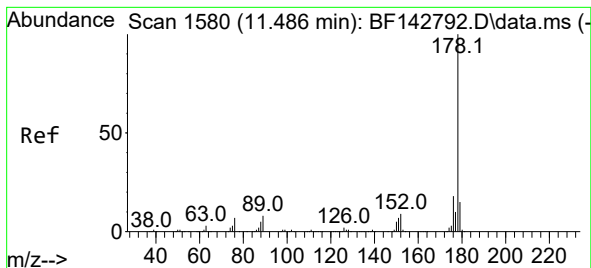
Tgt Ion:188 Resp: 183059
Ion Ratio Lower Upper
188 100
94 7.7 6.7 10.1
80 8.2 6.9 10.3



#71
Phenanthrene
Concen: 292.936 ng
RT: 11.451 min Scan# 1574
Delta R.T. 0.012 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:178 Resp: 2904839
Ion Ratio Lower Upper
178 100
176 19.7 15.1 22.7
179 16.0 12.0 18.0





#72

Anthracene

Concen: 100.199 ng

RT: 11.498 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

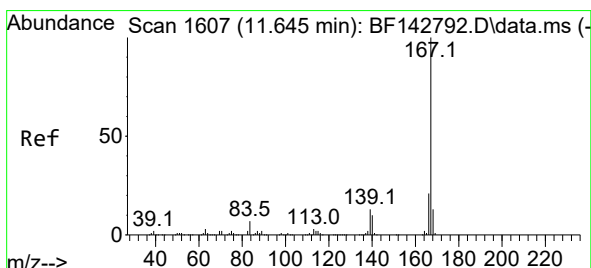
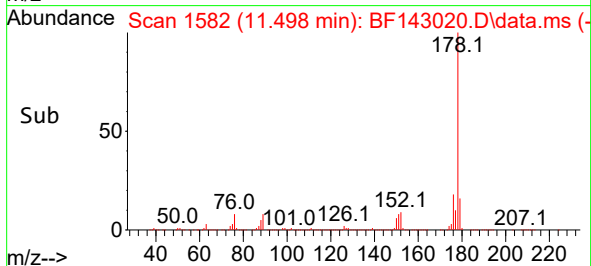
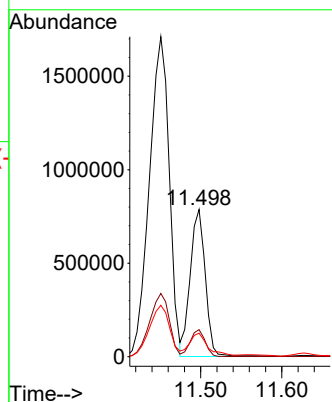
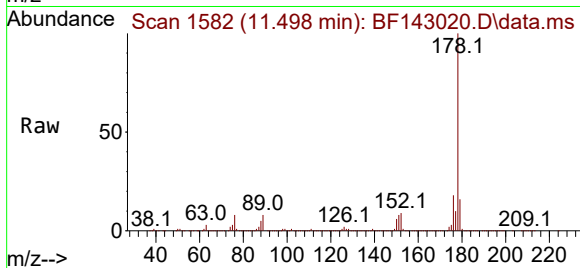
Tgt Ion:178 Resp: 1019032

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 16.0 12.4 18.6



#73

Carbazole

Concen: 11.680 ng

RT: 11.645 min Scan# 1607

Delta R.T. -0.000 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

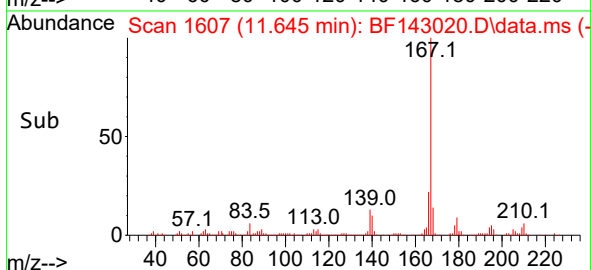
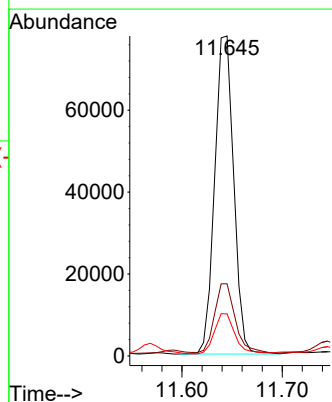
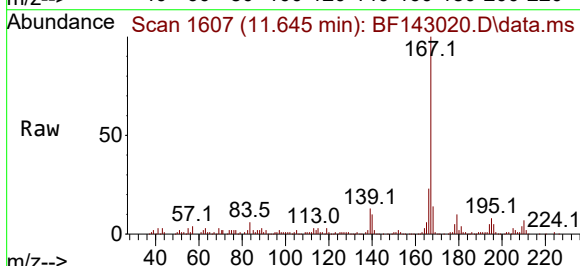
Tgt Ion:167 Resp: 102508

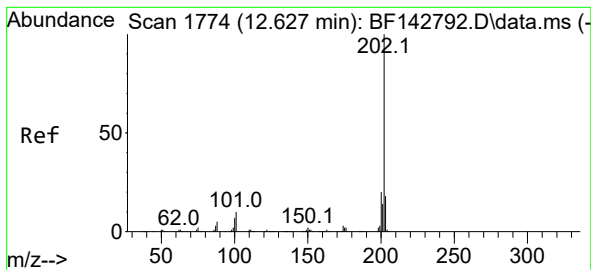
Ion Ratio Lower Upper

167 100

166 22.6 17.0 25.4

139 13.2 10.2 15.2





#75

Fluoranthene

Concen: 387.308 ng

RT: 12.651 min Scan# 1

Delta R.T. 0.023 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

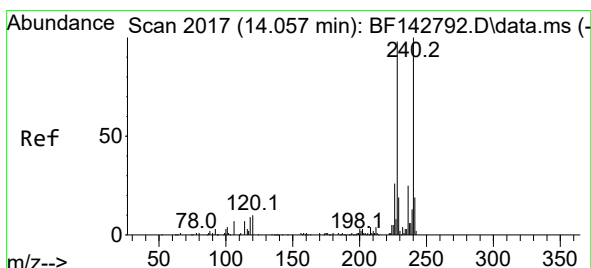
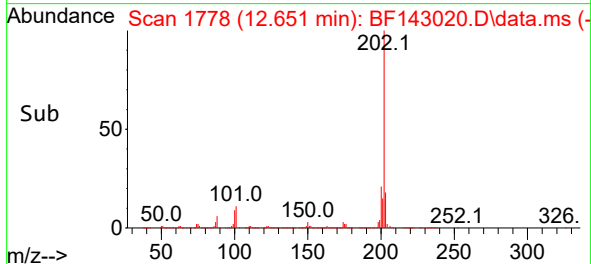
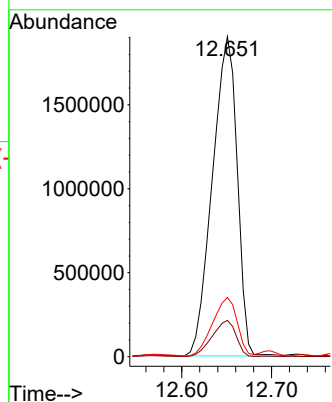
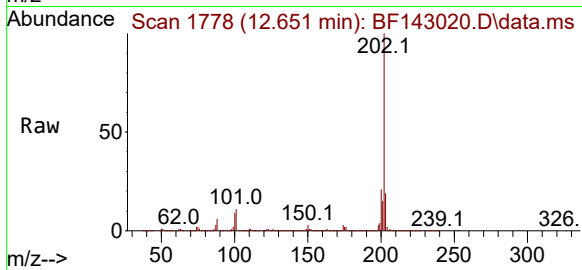
Tgt Ion:202 Resp: 3644986

Ion Ratio Lower Upper

202 100

101 11.4 0.0 29.7

203 18.5 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 2020

Delta R.T. 0.018 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

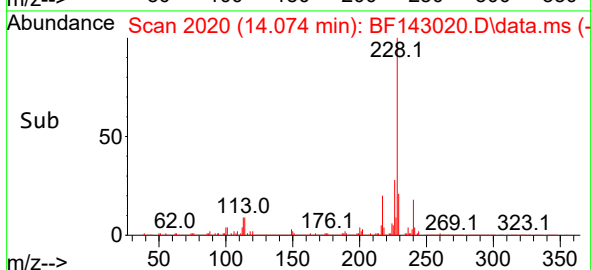
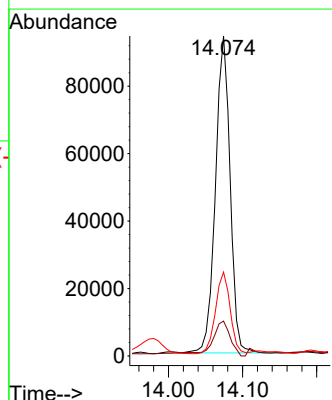
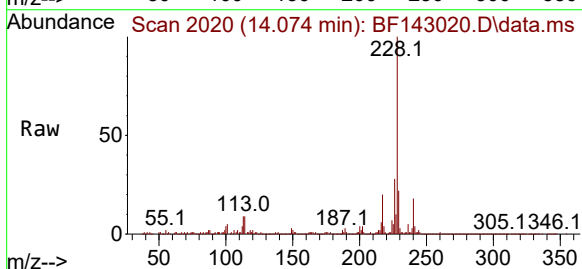
Tgt Ion:240 Resp: 128705

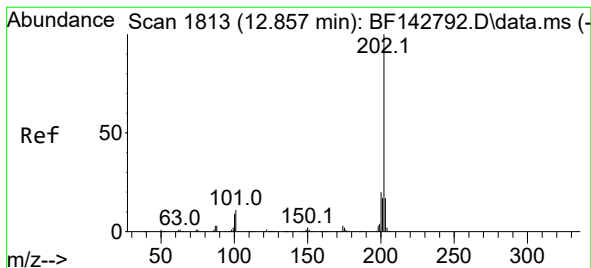
Ion Ratio Lower Upper

240 100

120 10.9 8.2 12.2

236 26.2 19.8 29.8





#78

Pyrene

Concen: 302.136 ng

RT: 12.651 min Scan# 1

Delta R.T. -0.206 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

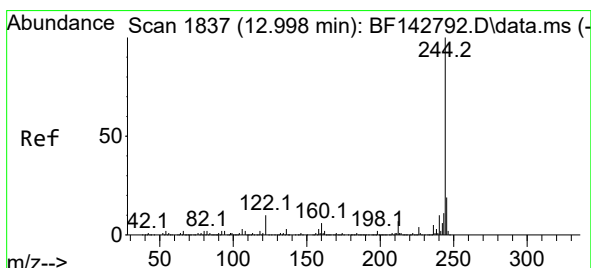
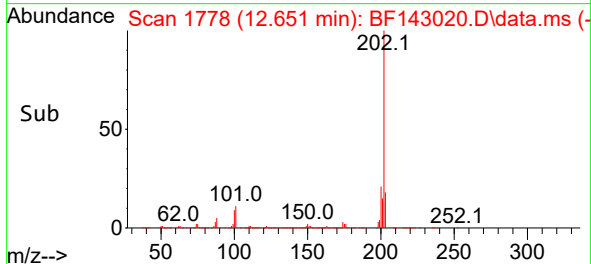
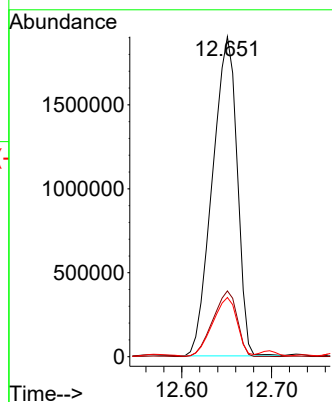
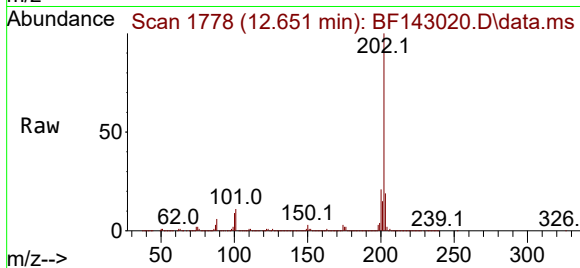
BNA_F

ClientSampleId :

PIT#1

Tgt Ion:202 Resp: 3644986

Ion	Ratio	Lower	Upper
202	100		
200	20.6	15.7	23.5
203	18.5	13.8	20.6



#79

Terphenyl-d14

Concen: 23.549 ng

RT: 12.998 min Scan# 1837

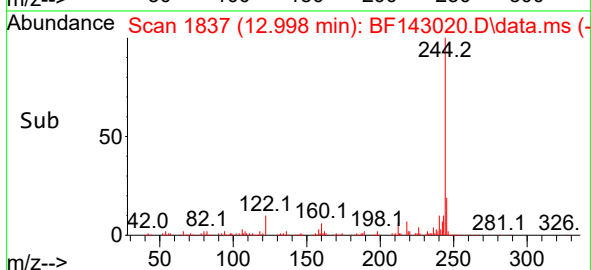
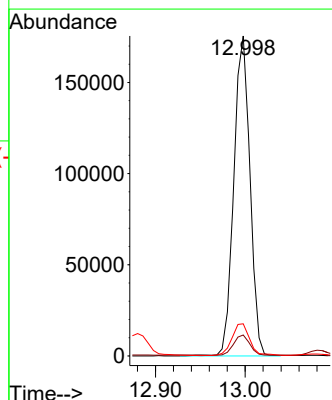
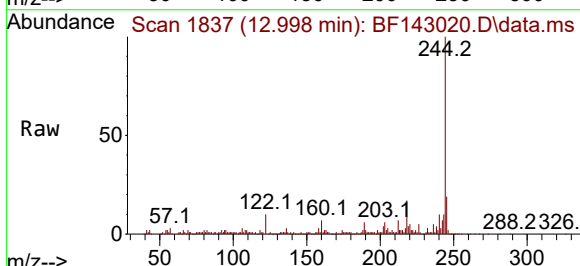
Delta R.T. -0.000 min

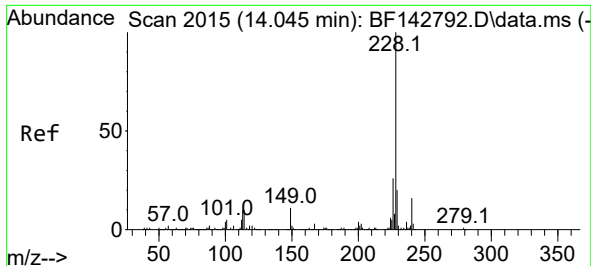
Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Tgt Ion:244 Resp: 219359

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	10.0	8.2	12.2

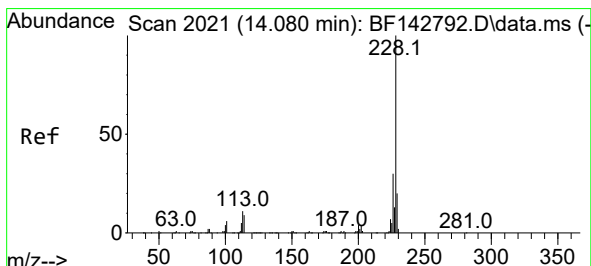
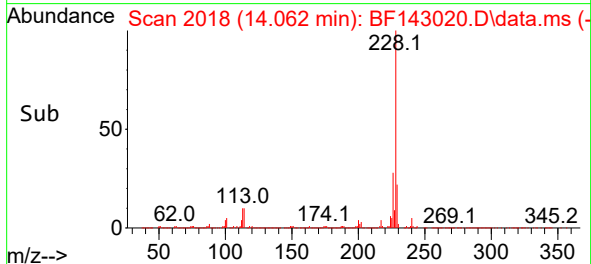
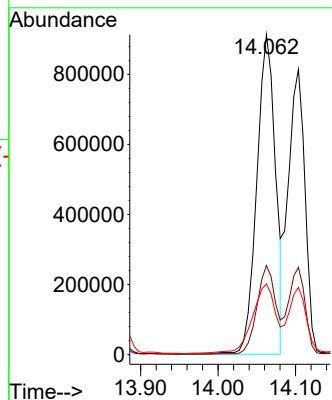
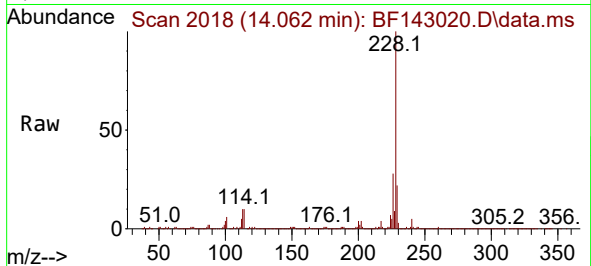




#81
Benzo(a)anthracene
Concen: 176.001 ng
RT: 14.062 min Scan# 2018
Delta R.T. 0.018 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

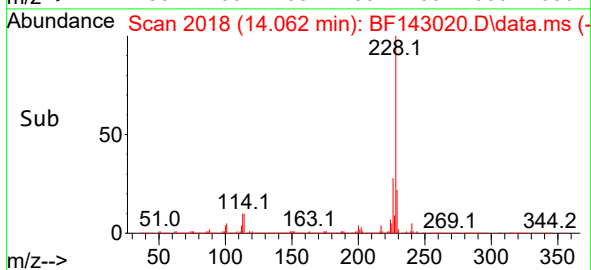
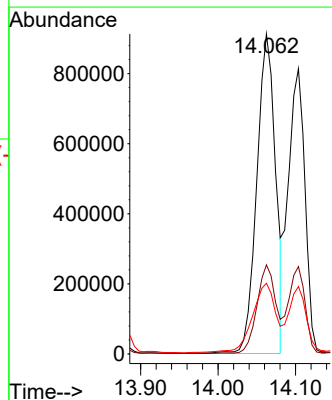
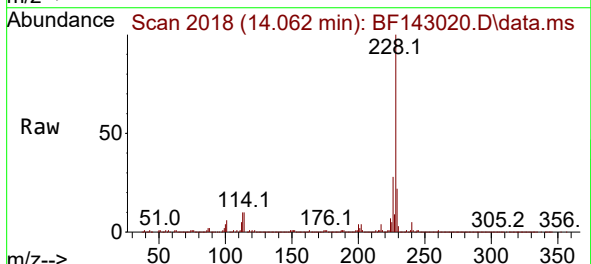
Instrument :
BNA_F
ClientSampleId :
PIT#1

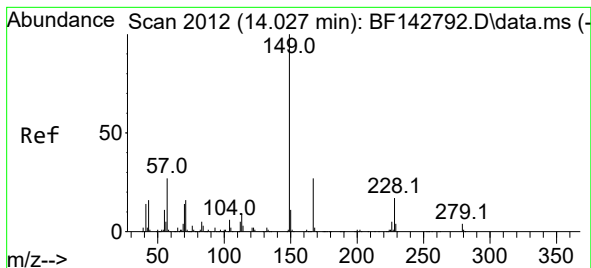
Tgt Ion:228 Resp: 1528136
Ion Ratio Lower Upper
228 100
226 27.9 21.2 31.8
229 22.1 15.6 23.4



#83
Chrysene
Concen: 197.240 ng
RT: 14.062 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:228 Resp: 1528136
Ion Ratio Lower Upper
228 100
226 27.9 23.7 35.5
229 22.1 15.7 23.5

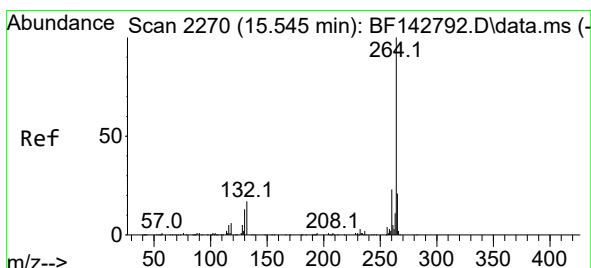
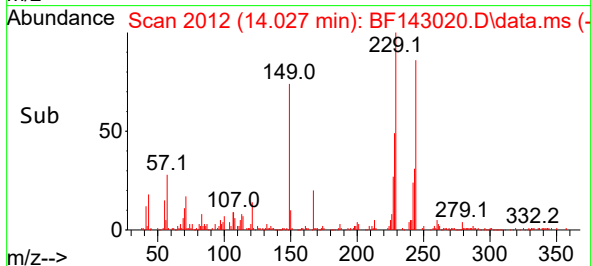
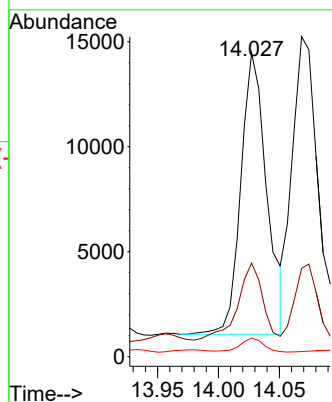
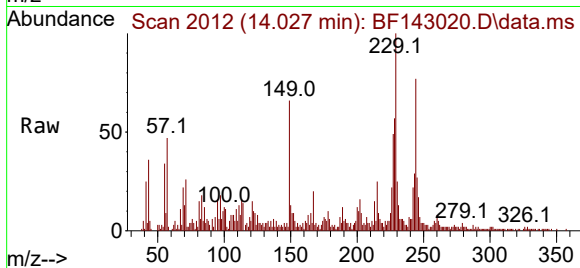




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 3.935 ng
 RT: 14.027 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: BF143020.D
 Acq: 07 Jul 2025 20:51

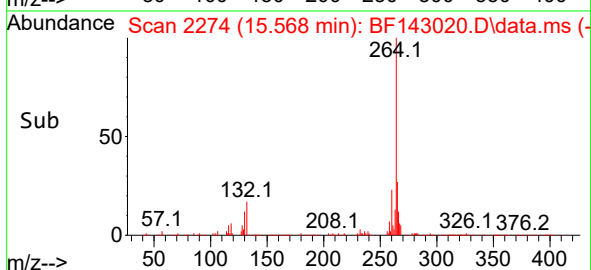
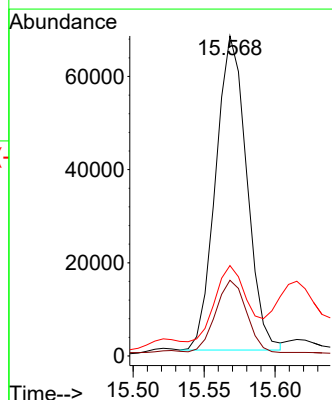
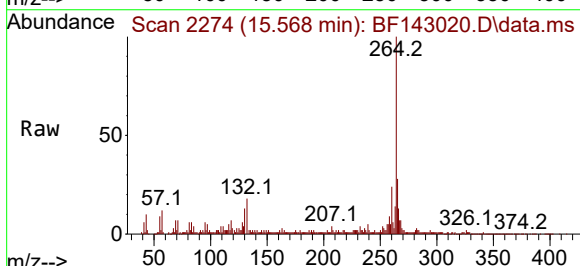
Instrument :
 BNA_F
 ClientSampleId :
 PIT#1

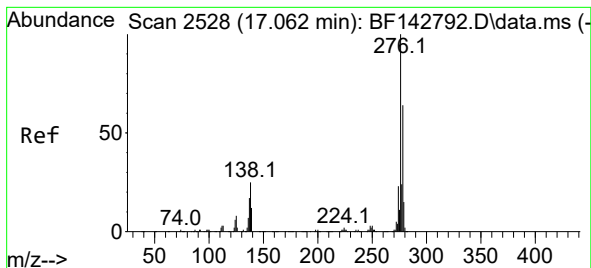
Tgt Ion:149 Resp: 19810
 Ion Ratio Lower Upper
 149 100
 167 30.8 21.4 32.0
 279 6.2 3.0 4.6#



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.568 min Scan# 2274
 Delta R.T. 0.023 min
 Lab File: BF143020.D
 Acq: 07 Jul 2025 20:51

Tgt Ion:264 Resp: 102828
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.1 27.1
 265 28.2 16.6 25.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 51.478 ng

RT: 17.103 min Scan# 21

Delta R.T. 0.041 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

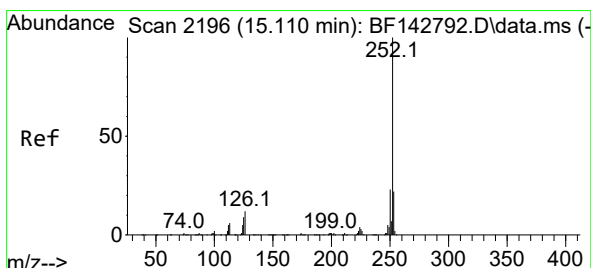
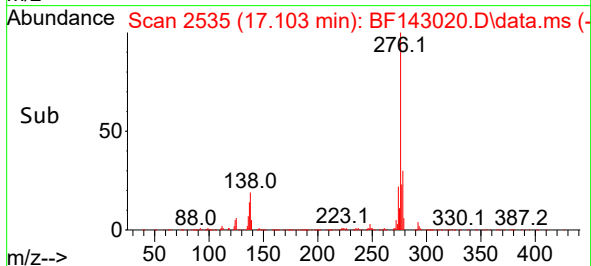
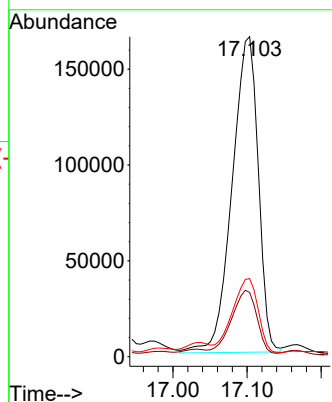
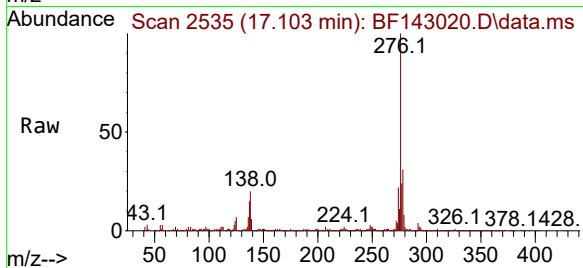
Tgt Ion:276 Resp: 403195

Ion Ratio Lower Upper

276 100

138 19.8 20.2 30.4#

277 23.2 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 239.521 ng

RT: 15.139 min Scan# 2201

Delta R.T. 0.029 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

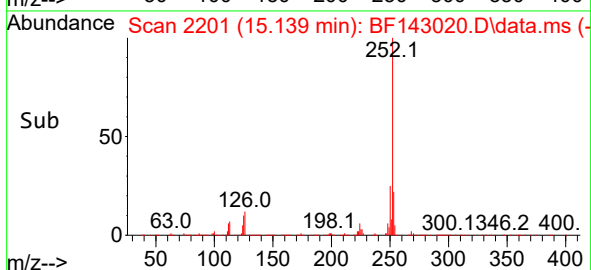
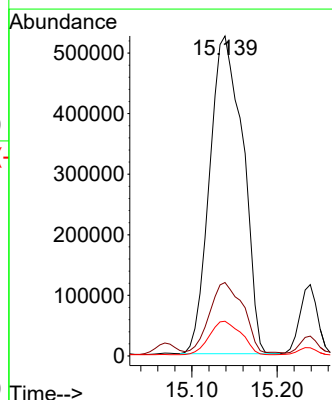
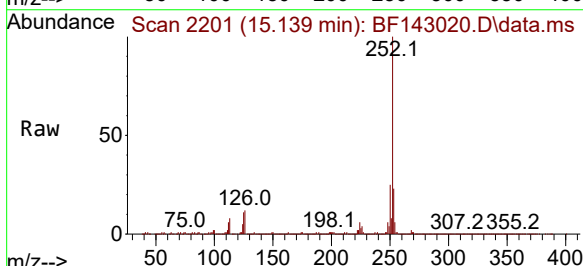
Tgt Ion:252 Resp: 1425170

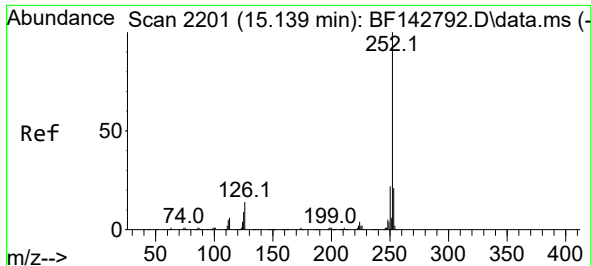
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 10.8 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 256.014 ng

RT: 15.139 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

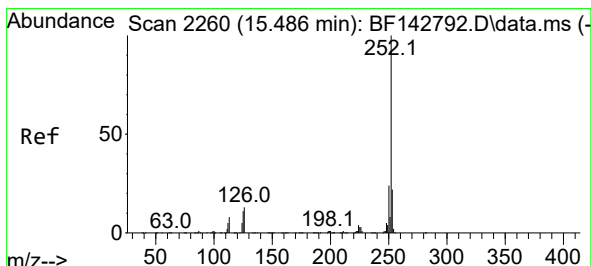
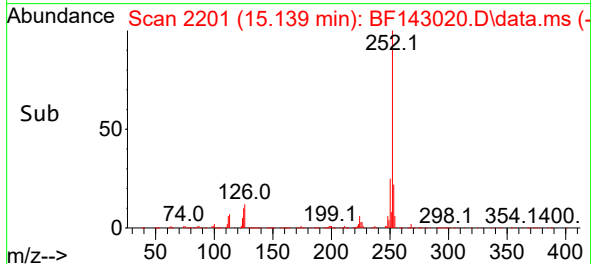
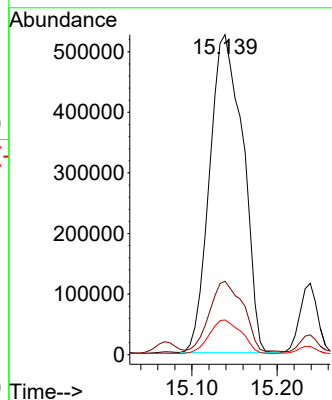
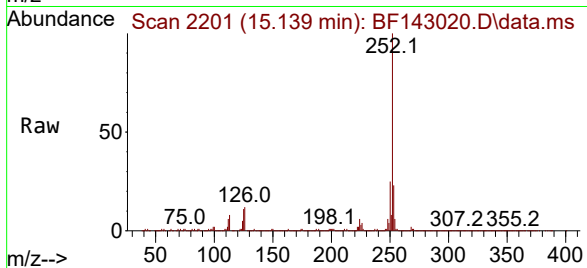
Tgt Ion:252 Resp: 1425170

Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

125 10.8 7.4 11.2



#90

Benzo(a)pyrene

Concen: 139.631 ng

RT: 15.515 min Scan# 2265

Delta R.T. 0.029 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

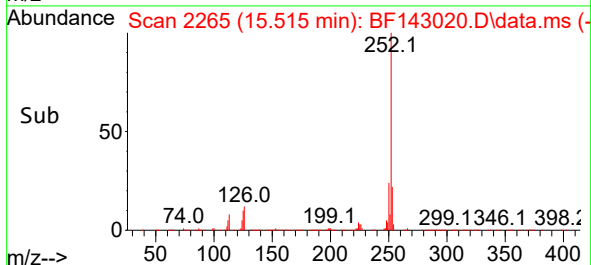
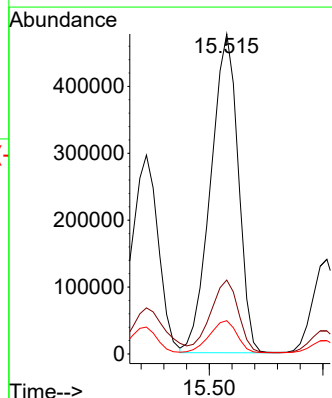
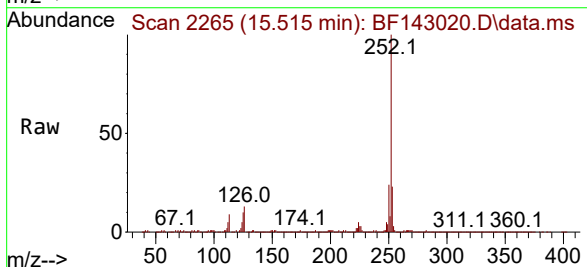
Tgt Ion:252 Resp: 802628

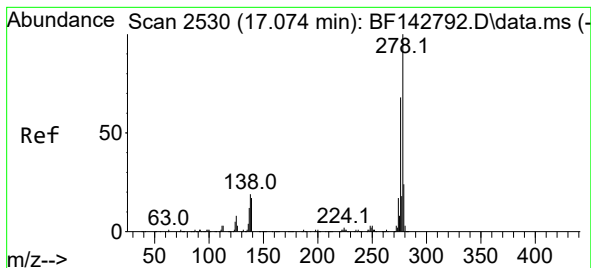
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 10.4 8.6 12.8





#91

Dibenzo(a,h)anthracene

Concen: 16.383 ng

RT: 17.103 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

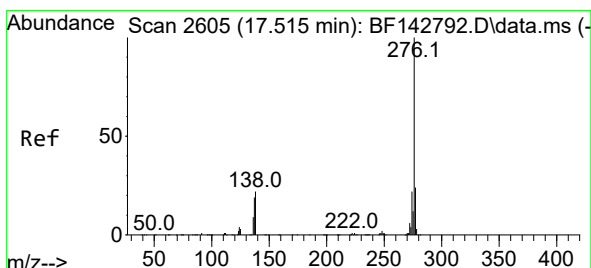
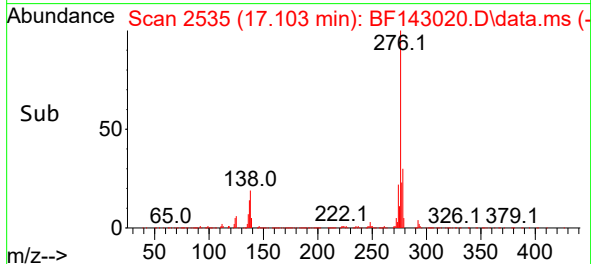
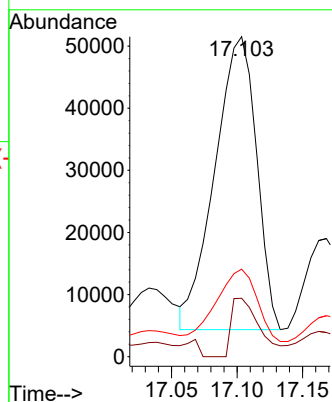
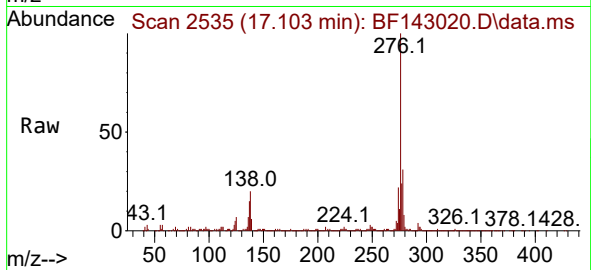
Tgt Ion:278 Resp: 104257

Ion Ratio Lower Upper

278 100

139 18.2 13.5 20.3

279 27.3 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 55.484 ng

RT: 17.568 min Scan# 2614

Delta R.T. 0.053 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Tgt Ion:276 Resp: 352094

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 20.9 17.6 26.4

