

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070225\
 Data File : BF142980.D
 Acq On : 02 Jul 2025 19:52
 Operator : RC/JU
 Sample : Q2450-01DL 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725DL

Quant Time: Jul 03 01:08:26 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)

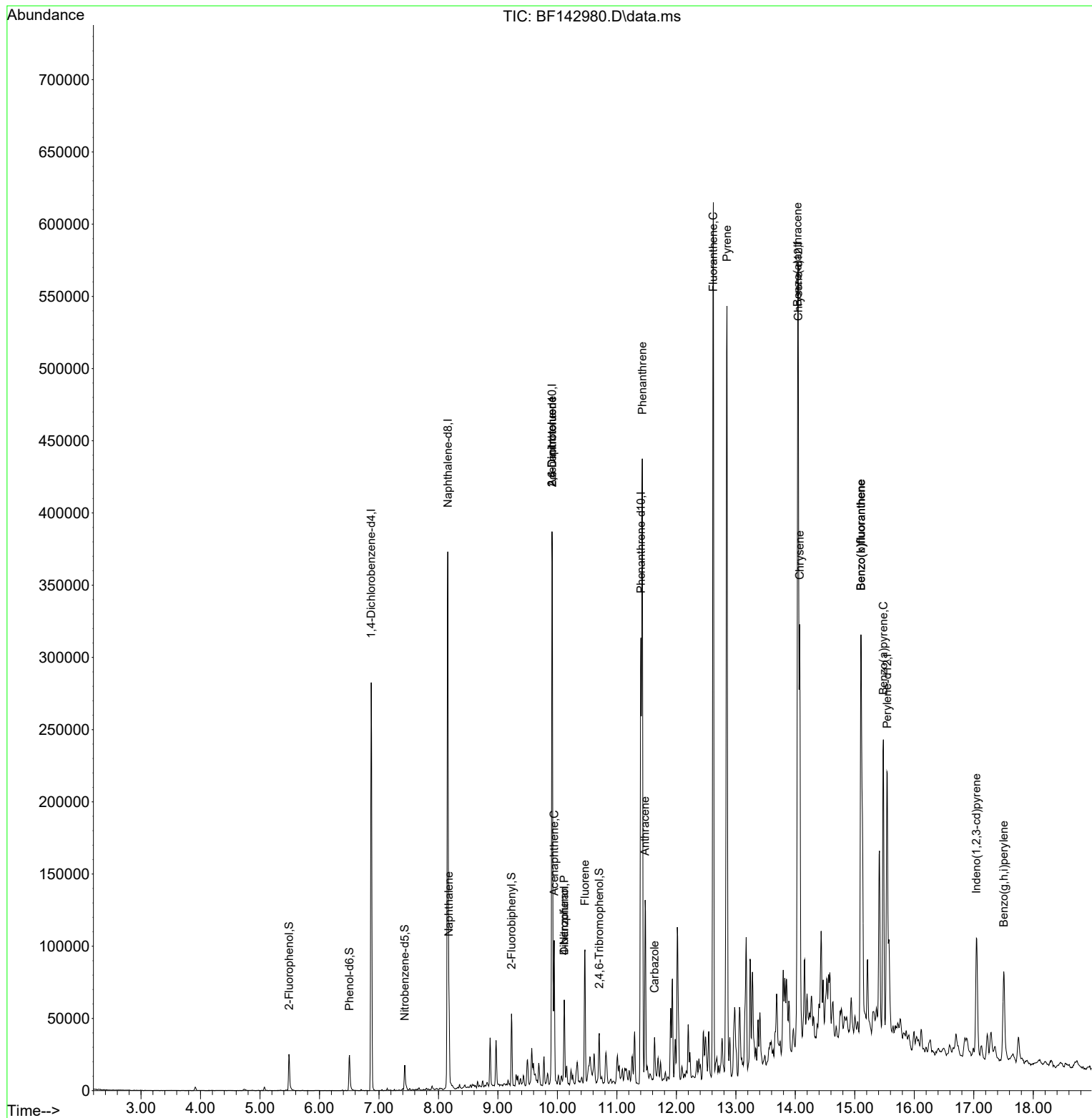
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	62710	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	237451	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	115579	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	161220	20.000	ng	0.00
76) Chrysene-d12	14.051	240	138134	20.000	ng	0.00
86) Perylene-d12	15.545	264	105923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	12421	3.298	ng	0.00
7) Phenol-d6	6.504	99	14925	3.359	ng	0.00
23) Nitrobenzene-d5	7.434	82	8919	2.060	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	3082	2.591	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	23117	2.627	ng	-0.02
79) Terphenyl-d14	12.986	244	18377	1.838	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	32980	2.838	ng	99
51) 2,6-Dinitrotoluene	9.910	165	15559	9.470	ng	# 27
52) Acenaphthene	9.945	154	30012	4.361	ng	99
55) Dibenzofuran	10.116	168	29163	2.955	ng	98
56) 4-Nitrophenol	10.116	139	10970	8.858	ng	# 13
57) 2,4-Dinitrotoluene	9.910	165	15560	7.130	ng	# 27
58) Fluorene	10.463	166	39709	5.152	ng	98
71) Phenanthrene	11.427	178	231618	26.521	ng	100
72) Anthracene	11.475	178	75665	8.448	ng	99
73) Carbazole	11.633	167	15519	2.008	ng	99
75) Fluoranthene	12.621	202	359441	43.367	ng	99
78) Pyrene	12.851	202	316070	24.411	ng	99
81) Benzo(a)anthracene	14.039	228	191568	20.558	ng	97
83) Chrysene	14.074	228	146513	17.620	ng	97
87) Indeno(1,2,3-cd)pyrene	17.045	276	59994	7.436	ng	95
88) Benzo(b)fluoranthene	15.104	252	243854	39.786	ng	98
89) Benzo(k)fluoranthene	15.104	252	243854	42.525	ng	98
90) Benzo(a)pyrene	15.480	252	122389	20.670	ng	99
92) Benzo(g,h,i)perylene	17.504	276	54762	8.377	ng	98

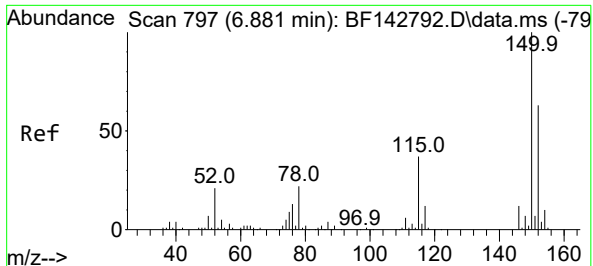
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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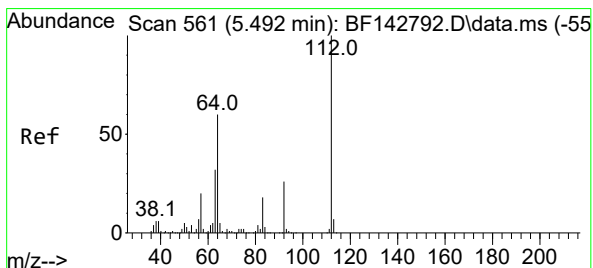
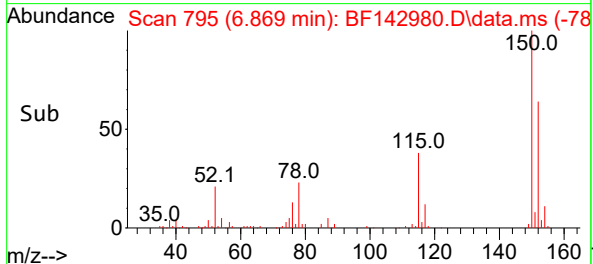
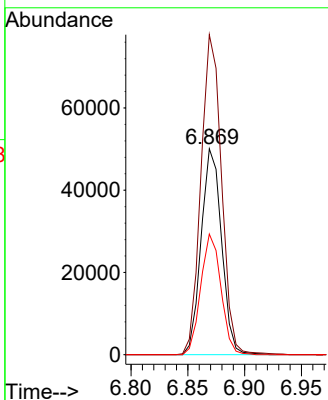
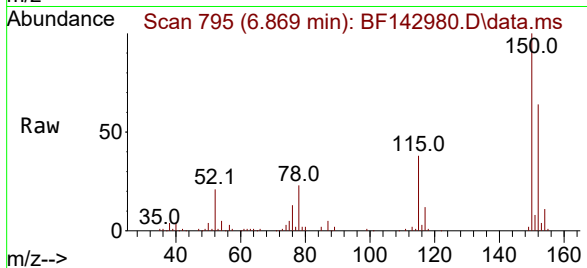




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

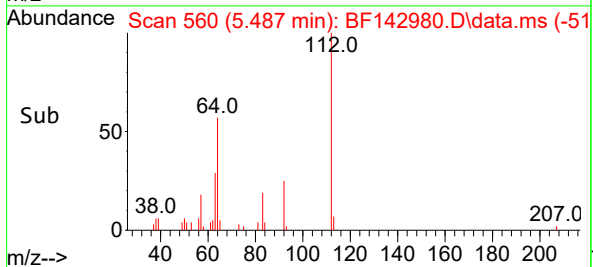
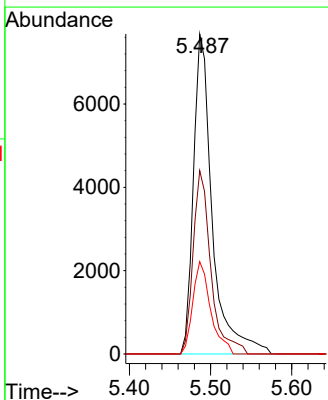
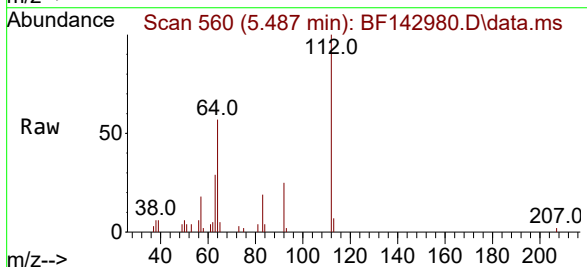
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

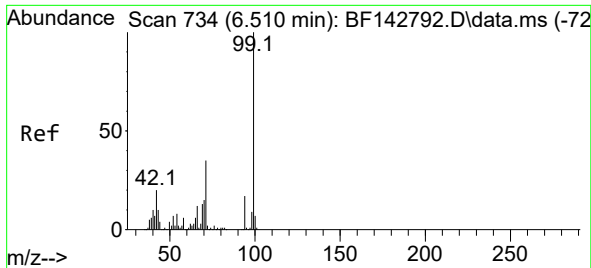
Tgt Ion:152 Resp: 62710
Ion Ratio Lower Upper
152 100
150 155.4 127.2 190.8
115 58.6 46.6 69.8



#5
2-Fluorophenol
Concen: 3.298 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.005 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:112 Resp: 12421
Ion Ratio Lower Upper
112 100
64 57.3 48.2 72.2
63 28.9 25.7 38.5

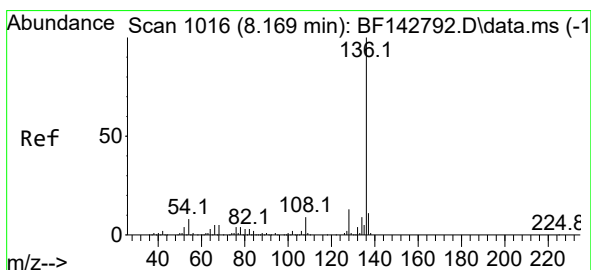
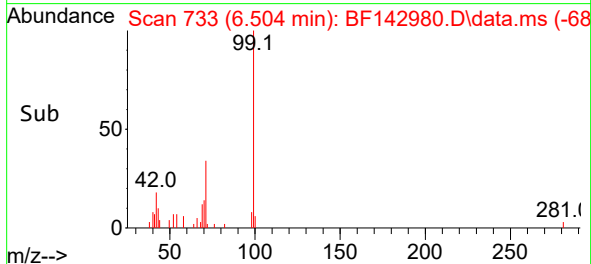
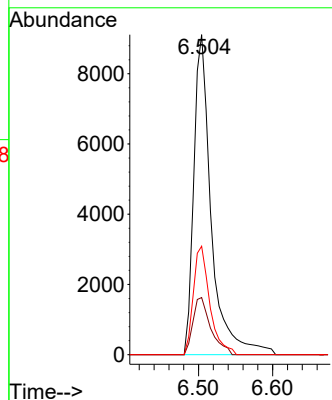
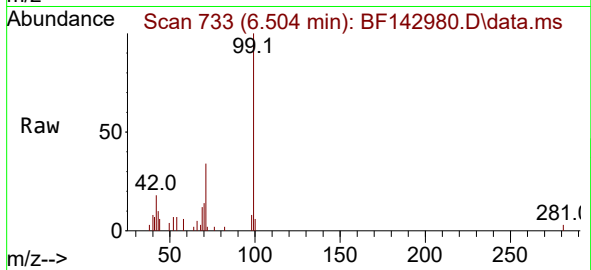




#7
Phenol-d6
Concen: 3.359 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

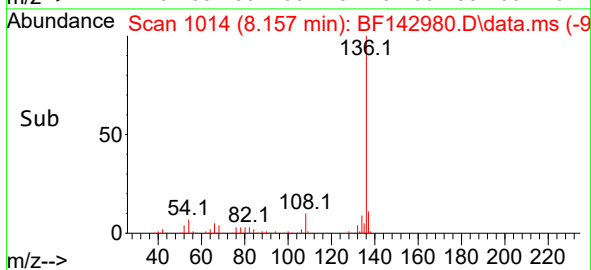
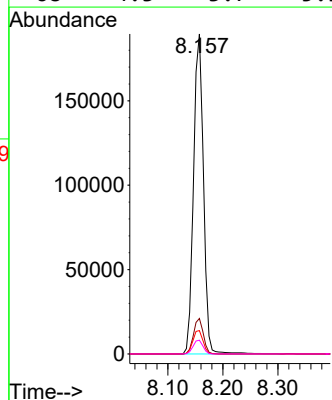
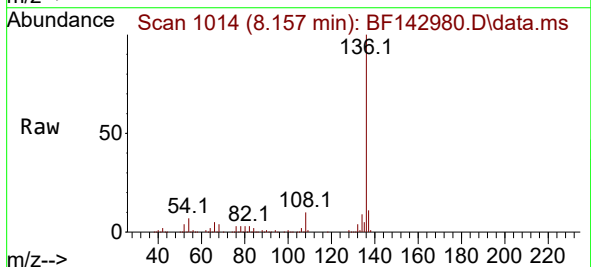
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

Tgt Ion: 99 Resp: 14925
Ion Ratio Lower Upper
99 100
42 17.9 15.9 23.9
71 33.9 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: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion: 136 Resp: 237451
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 7.3 6.3 9.5
68 4.3 3.7 5.5

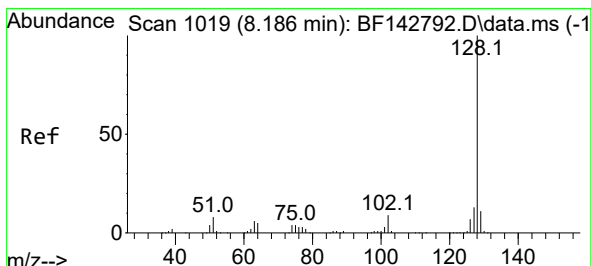
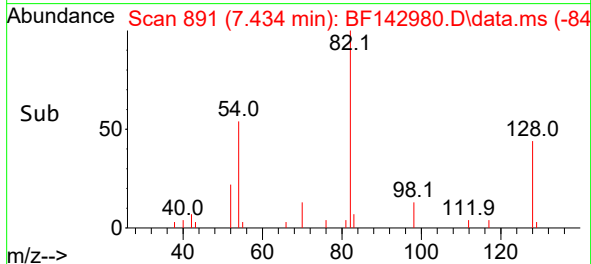
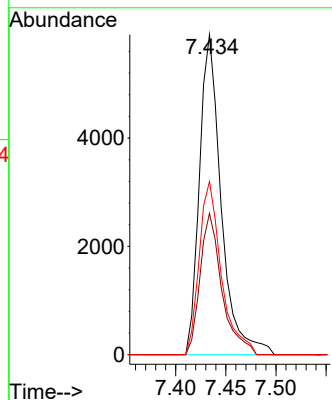
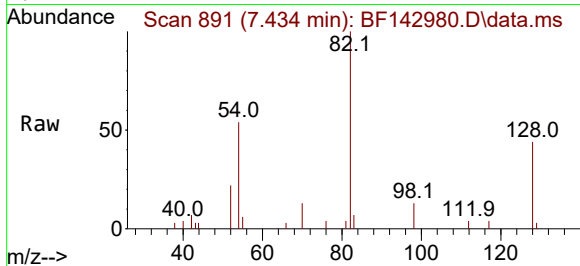




#23
 Nitrobenzene-d5
 Concen: 2.060 ng
 RT: 7.434 min Scan# 891
 Delta R.T. -0.011 min
 Lab File: BF142980.D
 Acq: 02 Jul 2025 19:52

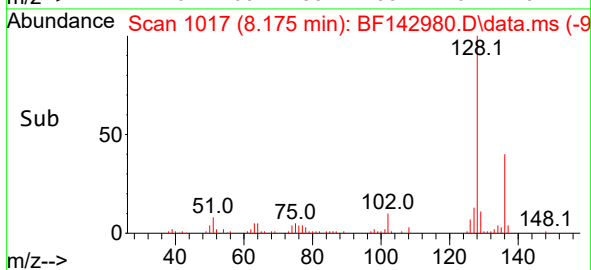
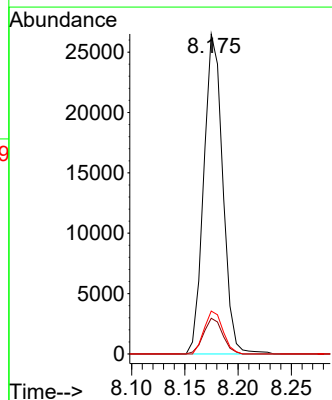
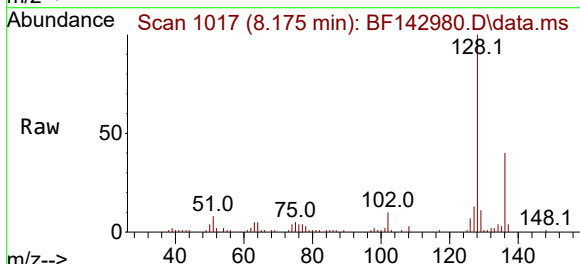
Instrument :
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 ClientSampleId :
 PL-2-062725DL

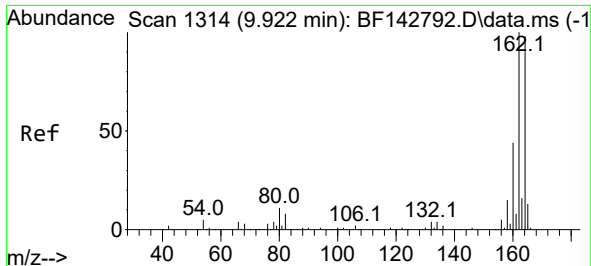
Tgt Ion: 82 Resp: 8919
 Ion Ratio Lower Upper
 82 100
 128 44.2 37.7 56.5
 54 54.2 45.7 68.5



#31
 Naphthalene
 Concen: 2.838 ng
 RT: 8.175 min Scan# 1017
 Delta R.T. -0.012 min
 Lab File: BF142980.D
 Acq: 02 Jul 2025 19:52

Tgt Ion: 128 Resp: 32980
 Ion Ratio Lower Upper
 128 100
 129 11.2 8.9 13.3
 127 13.4 10.4 15.6

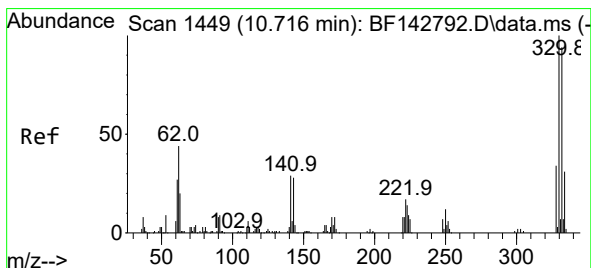
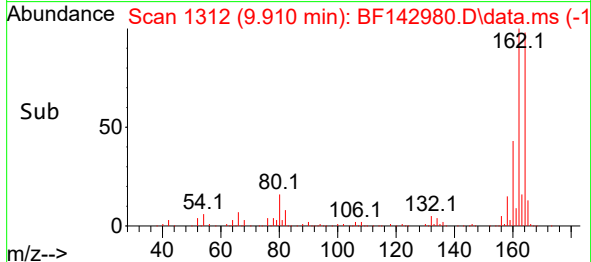
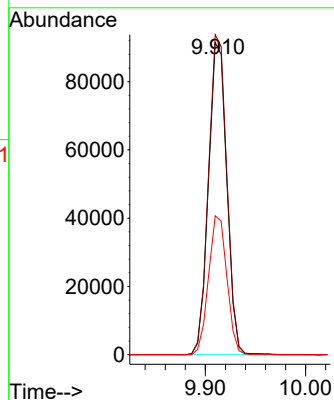
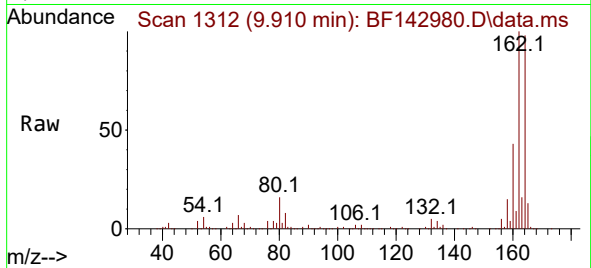




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

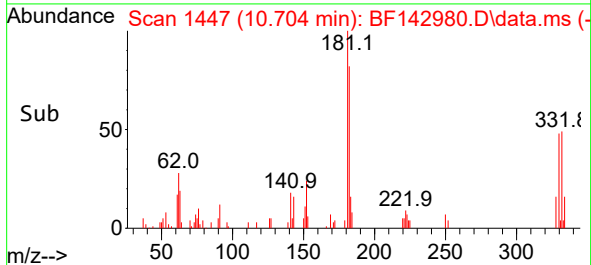
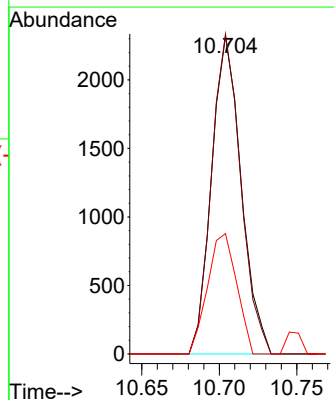
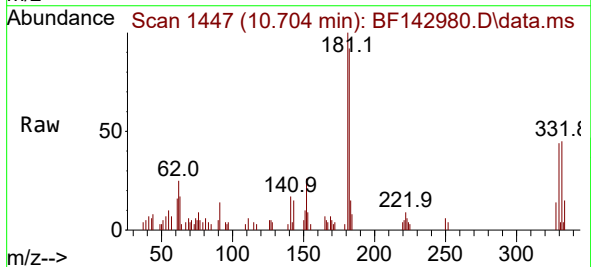
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ClientSampleId :
PL-2-062725DL

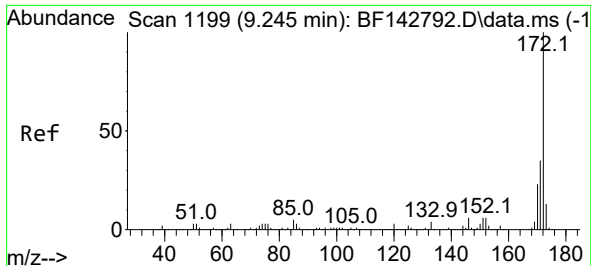
Tgt Ion:164 Resp: 115579
Ion Ratio Lower Upper
164 100
162 102.6 81.8 122.8
160 44.5 36.0 54.0



#42
2,4,6-Tribromophenol
Concen: 2.591 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:330 Resp: 3082
Ion Ratio Lower Upper
330 100
332 98.9 75.0 112.6
141 37.2 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 2.627 ng

RT: 9.228 min Scan# 1196

Delta R.T. -0.017 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

Instrument :

BNA_F

ClientSampleId :

PL-2-062725DL

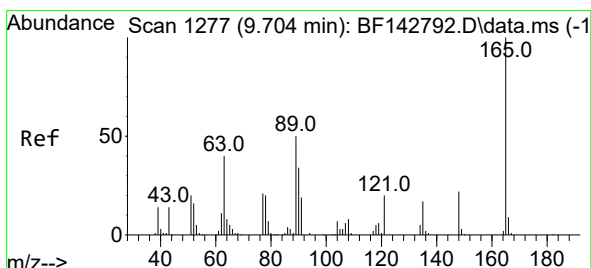
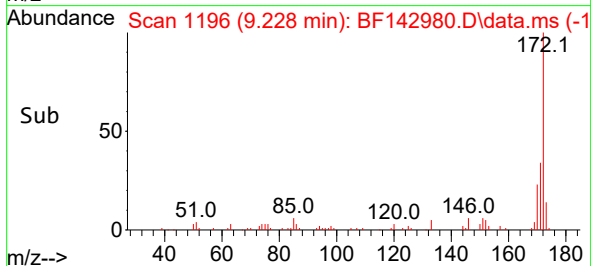
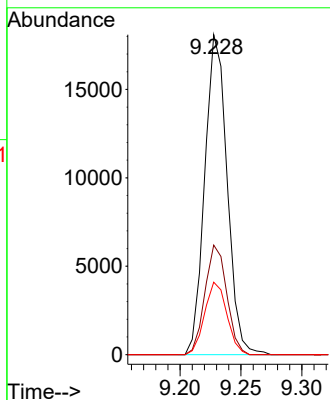
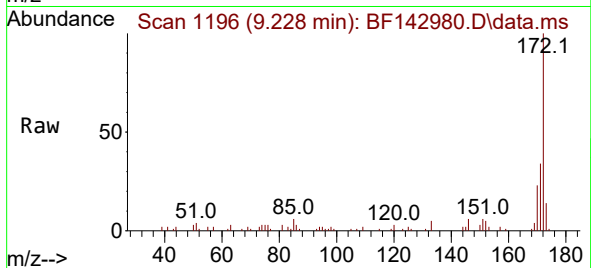
Tgt Ion:172 Resp: 23117

Ion Ratio Lower Upper

172 100

171 34.3 28.2 42.4

170 22.7 18.5 27.7



#51

2,6-Dinitrotoluene

Concen: 9.470 ng

RT: 9.910 min Scan# 1312

Delta R.T. 0.206 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

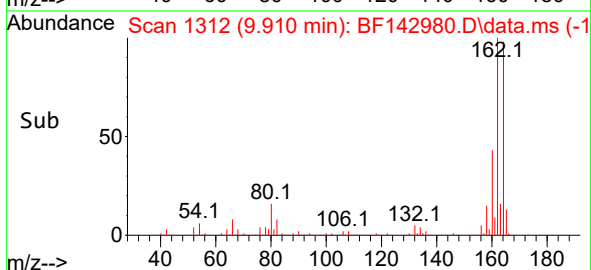
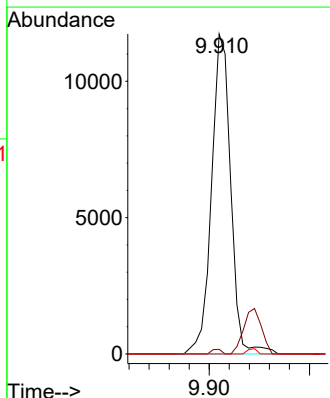
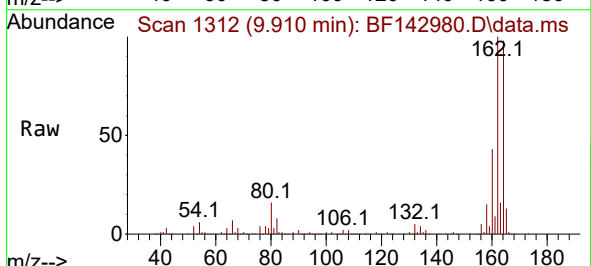
Tgt Ion:165 Resp: 15559

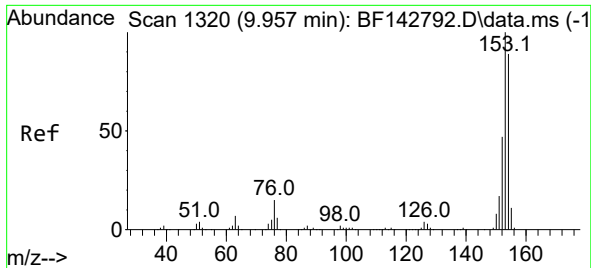
Ion Ratio Lower Upper

165 100

63 1.4 44.2 66.4#

89 0.0 39.8 59.8#

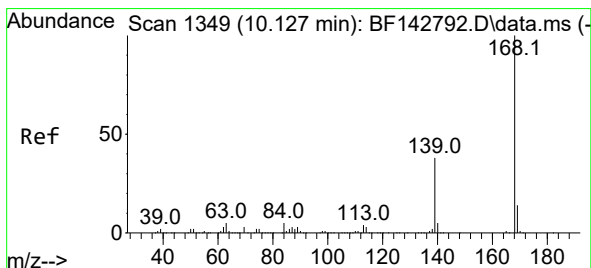
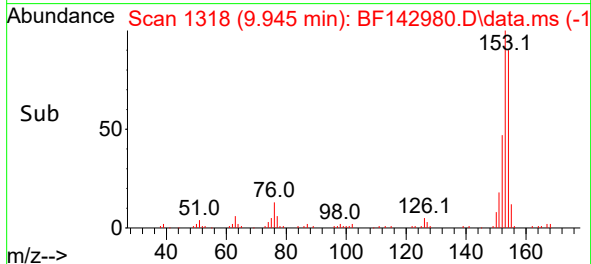
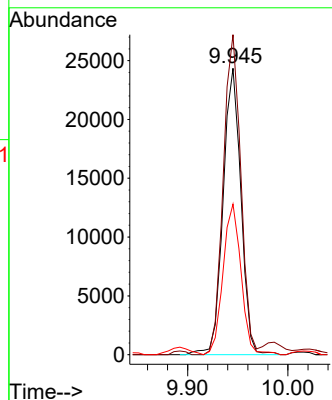
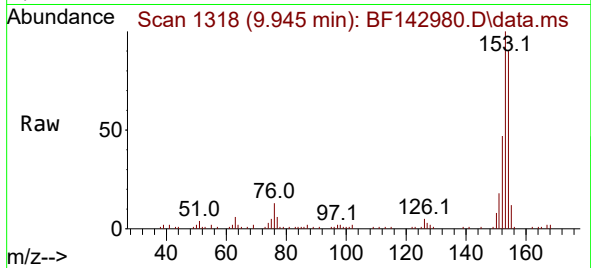




#52
Acenaphthene
Concen: 4.361 ng
RT: 9.945 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

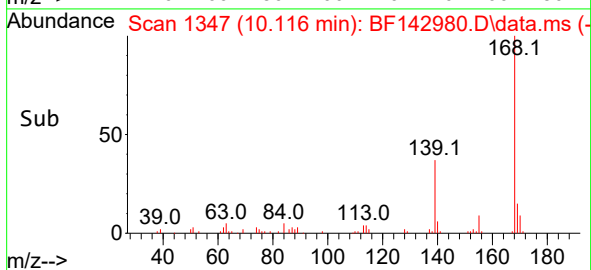
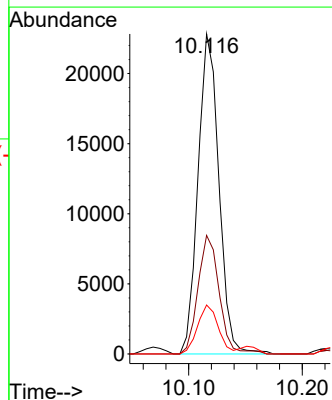
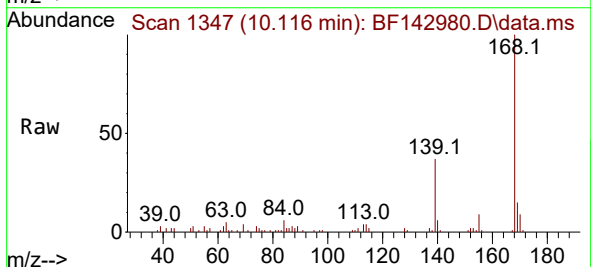
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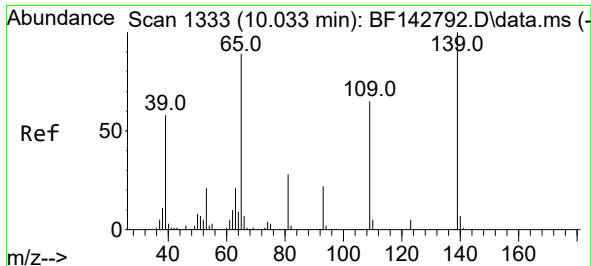
Tgt Ion:154 Resp: 30012
Ion Ratio Lower Upper
154 100
153 111.7 90.0 135.0
152 52.6 41.9 62.9



#55
Dibenzofuran
Concen: 2.955 ng
RT: 10.116 min Scan# 1347
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:168 Resp: 29163
Ion Ratio Lower Upper
168 100
139 37.0 30.2 45.4
169 15.3 10.8 16.2





#56

4-Nitrophenol

Concen: 8.858 ng

RT: 10.116 min Scan# 1333

Delta R.T. 0.082 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

Instrument :

BNA_F

ClientSampleId :

PL-2-062725DL

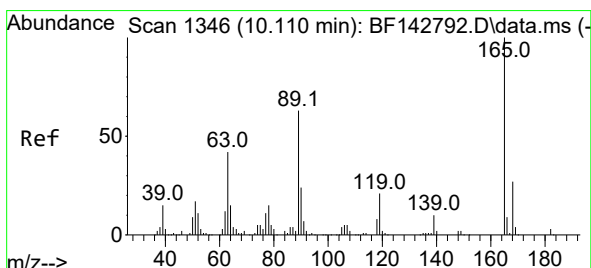
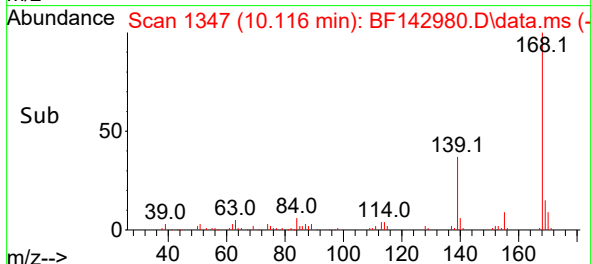
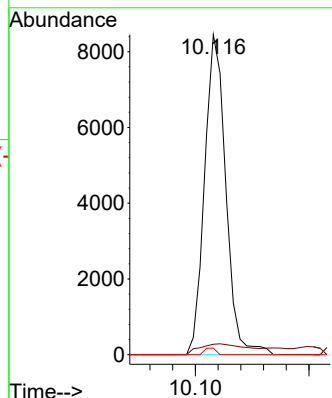
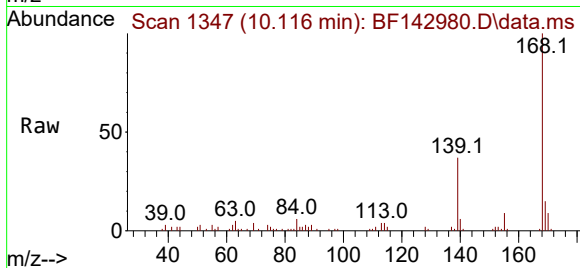
Tgt Ion:139 Resp: 10970

Ion Ratio Lower Upper

139 100

109 3.3 44.7 84.7#

65 2.1 69.8 109.8#



#57

2,4-Dinitrotoluene

Concen: 7.130 ng

RT: 9.910 min Scan# 1312

Delta R.T. -0.200 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

Tgt Ion:165 Resp: 15560

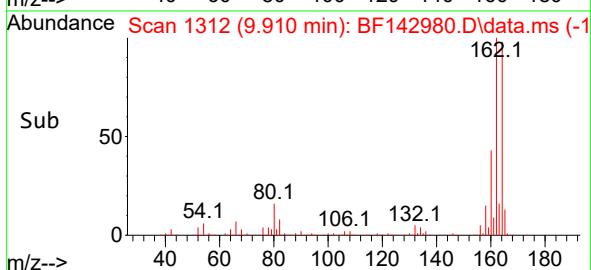
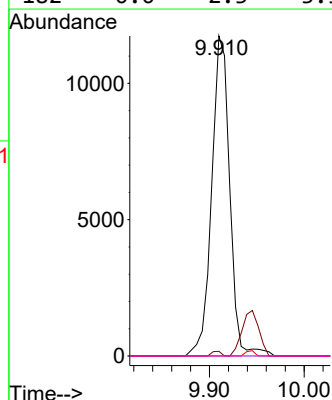
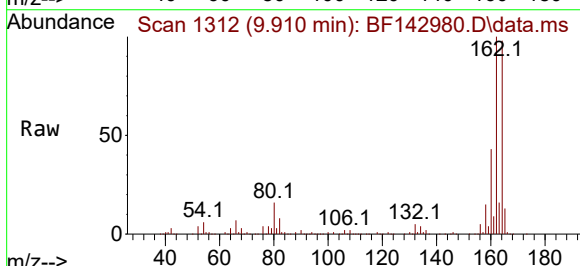
Ion Ratio Lower Upper

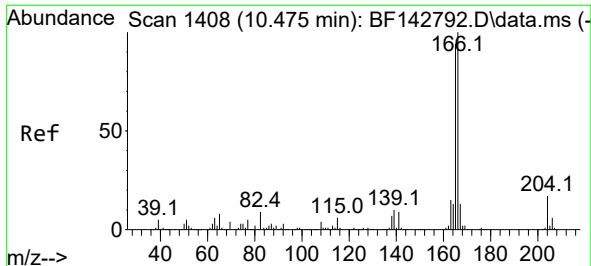
165 100

63 1.4 33.9 50.9#

89 0.0 50.6 75.8#

182 0.0 2.3 3.5#

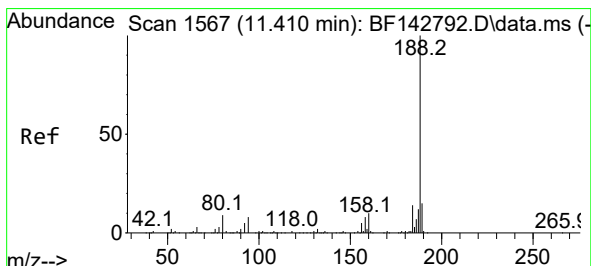
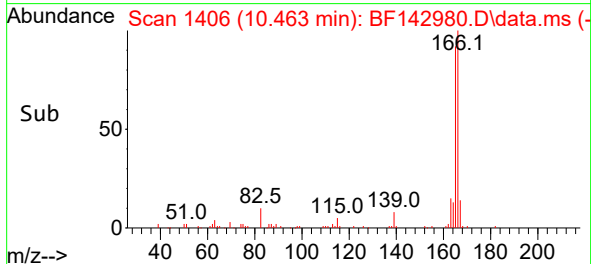
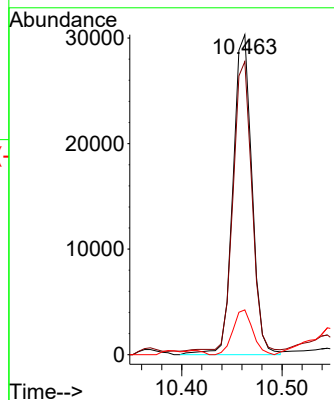
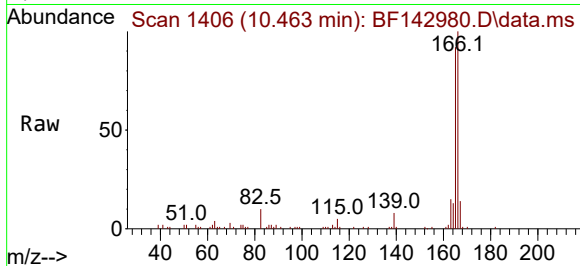




#58
Fluorene
Concen: 5.152 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

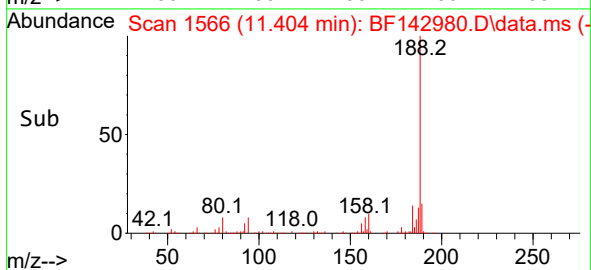
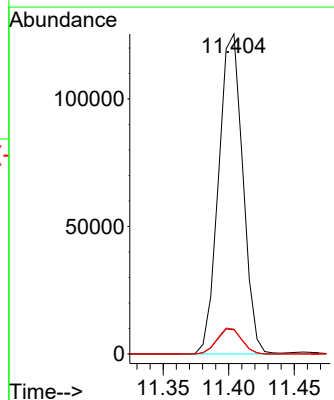
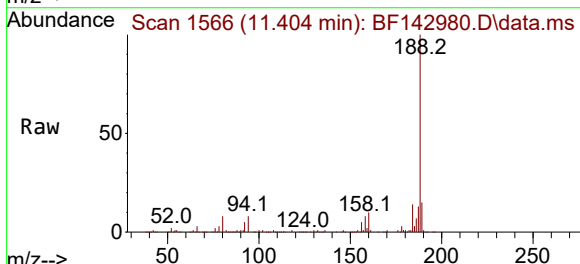
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

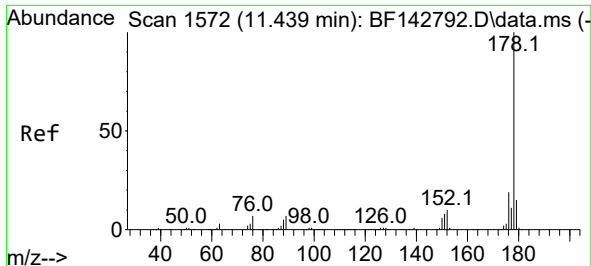
Tgt Ion:166 Resp: 39709
Ion Ratio Lower Upper
166 100
165 91.6 75.2 112.8
167 14.0 10.6 15.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:188 Resp: 161220
Ion Ratio Lower Upper
188 100
94 7.6 6.7 10.1
80 7.8 6.9 10.3

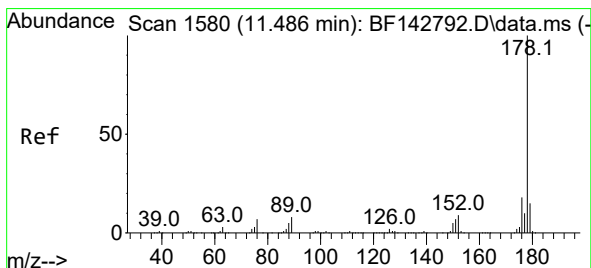
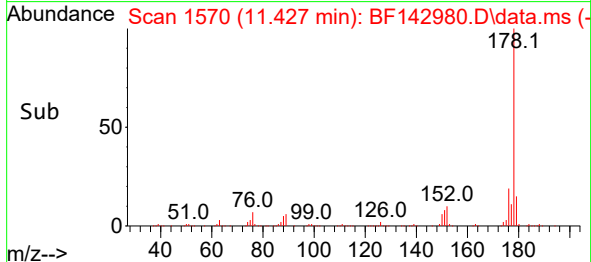
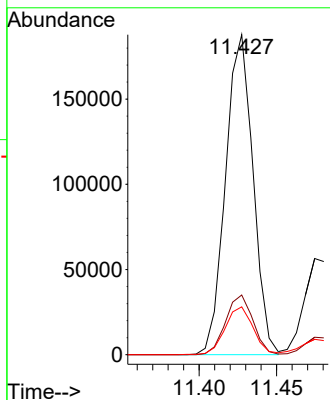
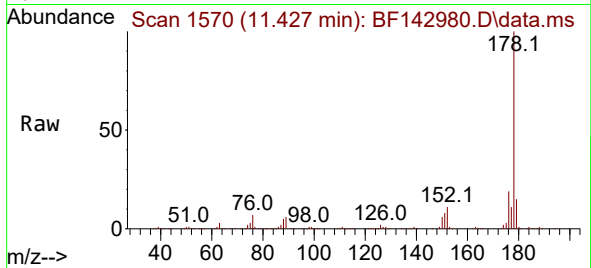




#71
Phenanthrene
Concen: 26.521 ng
RT: 11.427 min Scan# 1572
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

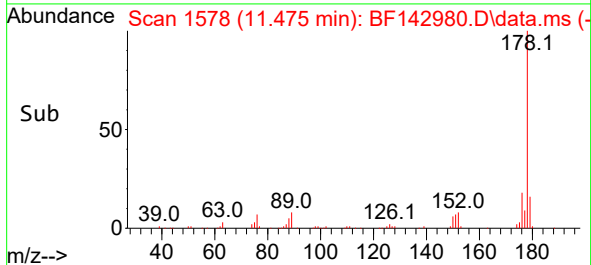
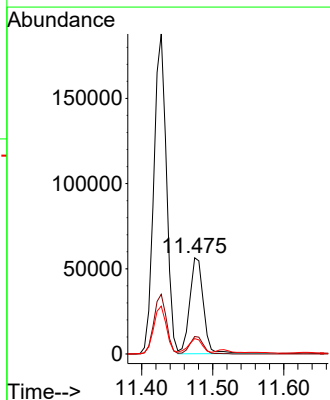
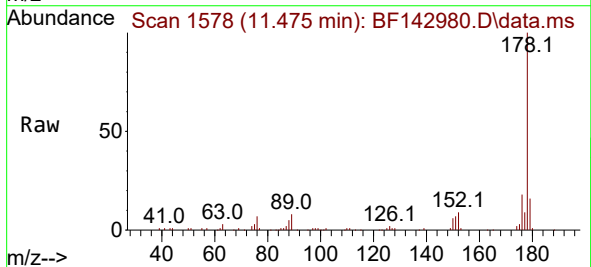
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

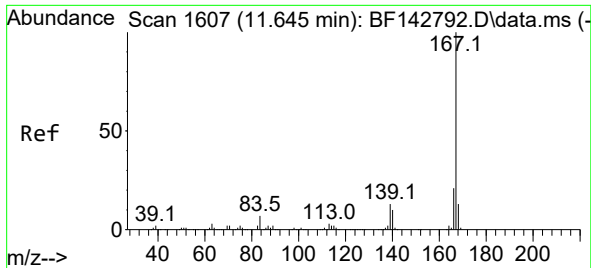
Tgt Ion:178 Resp: 231618
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.0 12.0 18.0



#72
Anthracene
Concen: 8.448 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.012 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:178 Resp: 75665
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 16.0 12.4 18.6

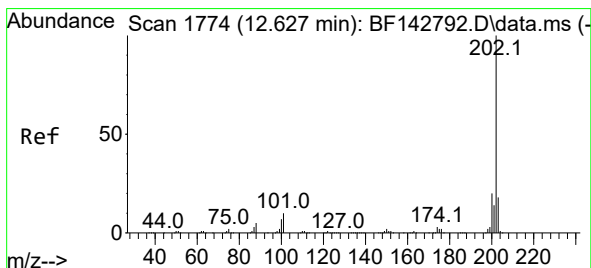
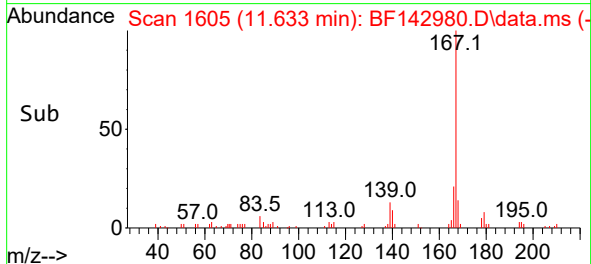
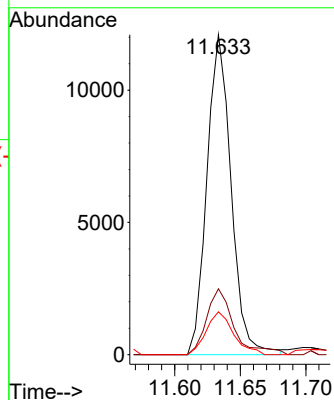
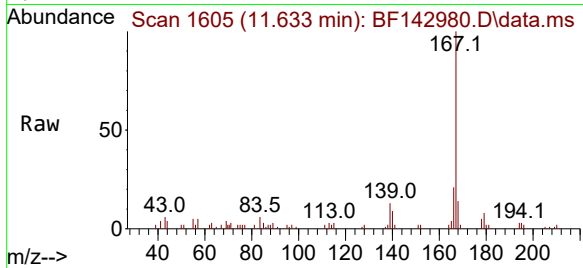




#73
 Carbazole
 Concen: 2.008 ng
 RT: 11.633 min Scan# 1605
 Delta R.T. -0.012 min
 Lab File: BF142980.D
 Acq: 02 Jul 2025 19:52

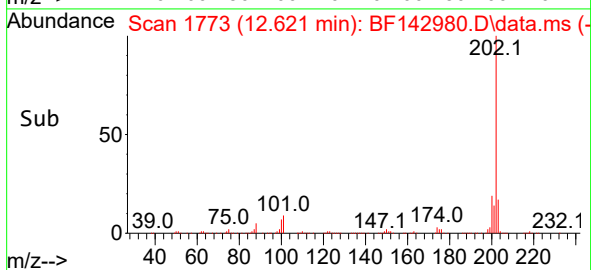
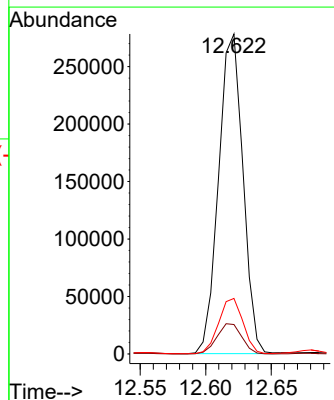
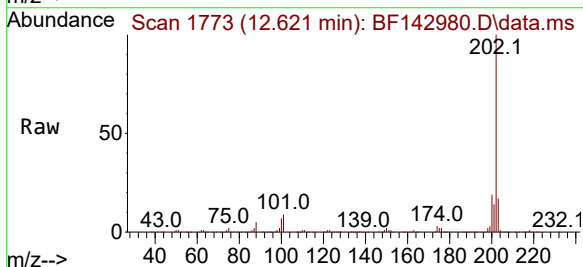
Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725DL

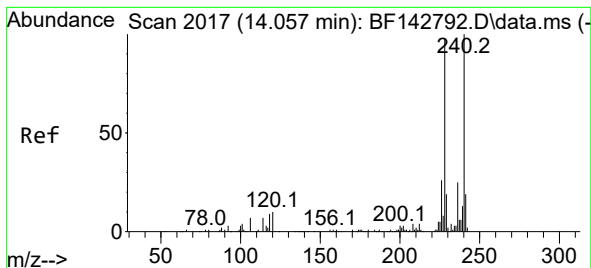
Tgt Ion:167 Resp: 15519
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.0 25.4
 139 13.4 10.2 15.2



#75
 Fluoranthene
 Concen: 43.367 ng
 RT: 12.621 min Scan# 1773
 Delta R.T. -0.006 min
 Lab File: BF142980.D
 Acq: 02 Jul 2025 19:52

Tgt Ion:202 Resp: 359441
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 29.7
 203 17.4 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: BF142980.D

Acq: 02 Jul 2025 19:52

Instrument :

BNA_F

ClientSampleId :

PL-2-062725DL

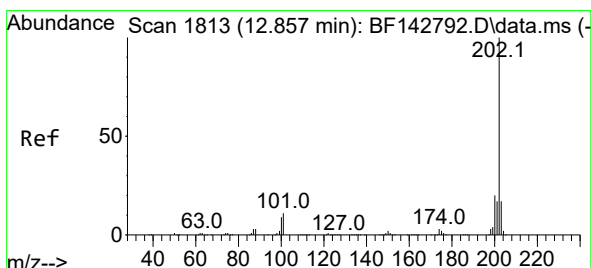
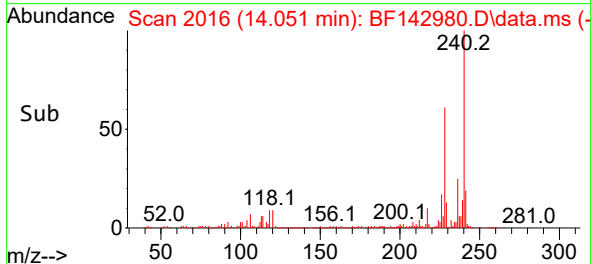
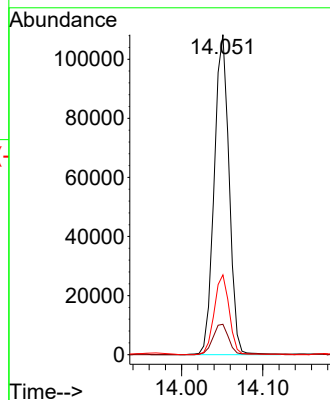
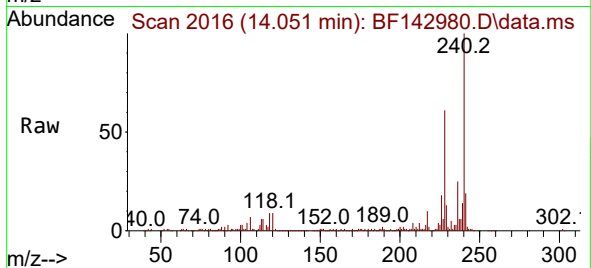
Tgt Ion:240 Resp: 138134

Ion Ratio Lower Upper

240 100

120 9.5 8.2 12.2

236 25.0 19.8 29.8



#78

Pyrene

Concen: 24.411 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

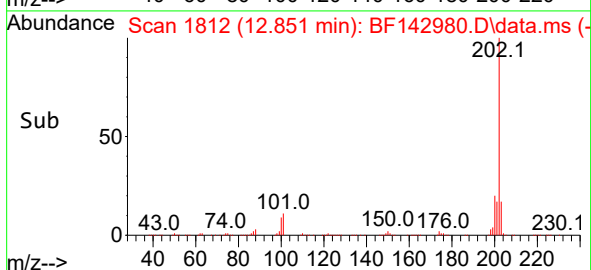
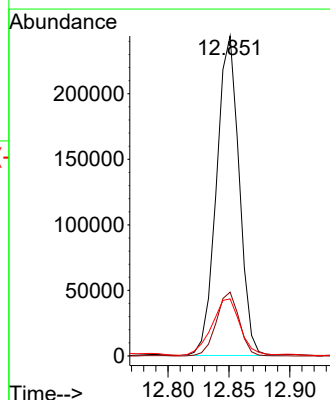
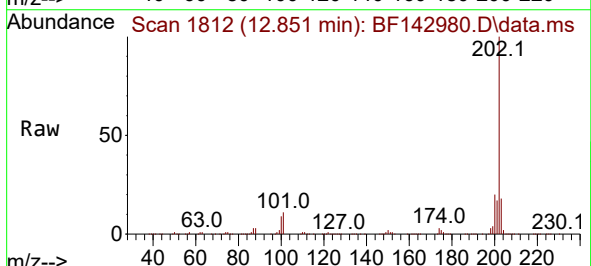
Tgt Ion:202 Resp: 316070

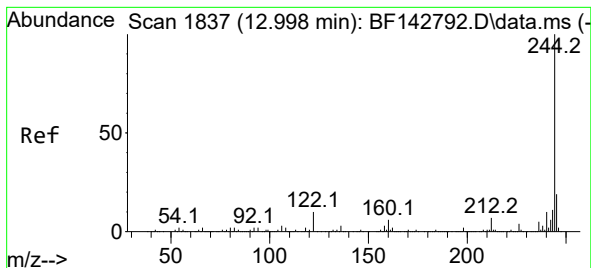
Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

203 17.9 13.8 20.6





#79

Terphenyl-d14

Concen: 1.838 ng

RT: 12.986 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

Instrument :

BNA_F

ClientSampleId :

PL-2-062725DL

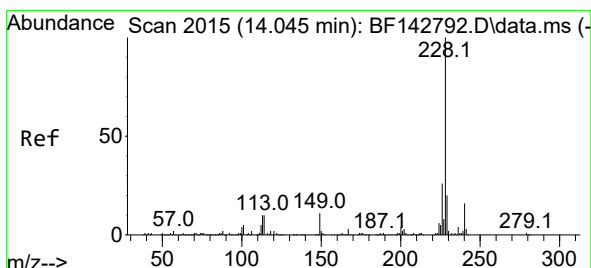
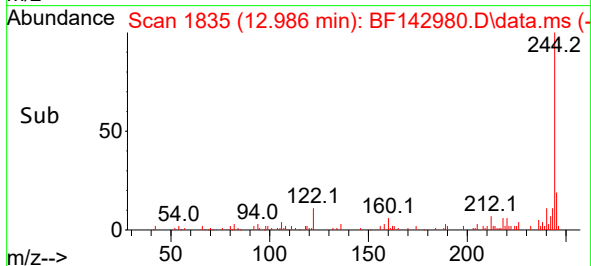
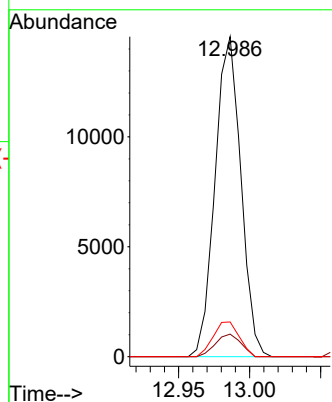
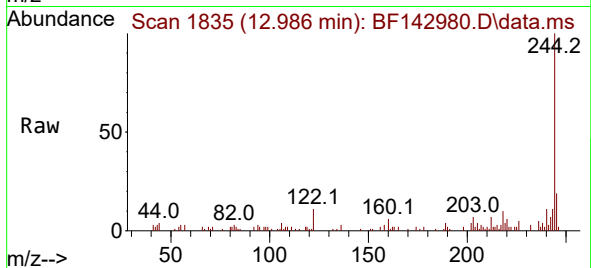
Tgt Ion:244 Resp: 18377

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

122 10.8 8.2 12.2



#81

Benzo(a)anthracene

Concen: 20.558 ng

RT: 14.039 min Scan# 2014

Delta R.T. -0.006 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

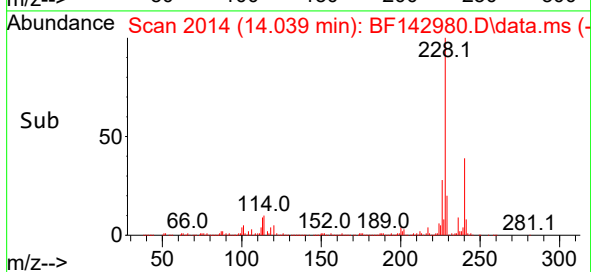
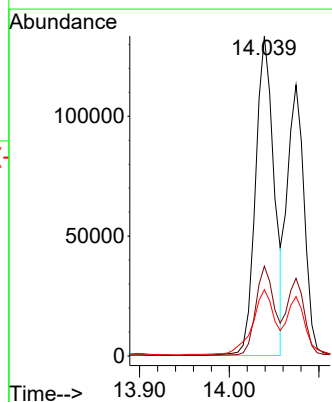
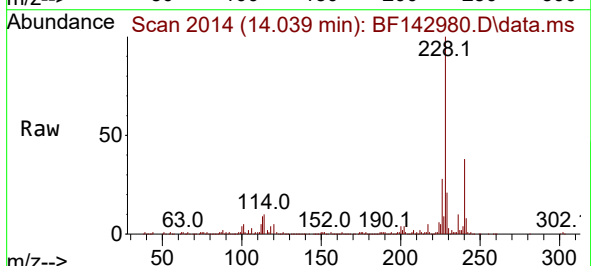
Tgt Ion:228 Resp: 191568

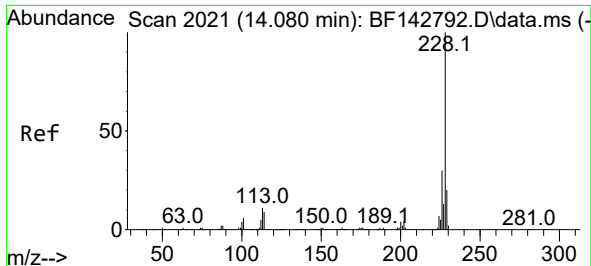
Ion Ratio Lower Upper

228 100

226 28.1 21.2 31.8

229 20.7 15.6 23.4

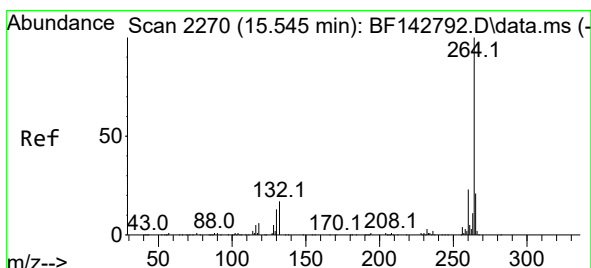
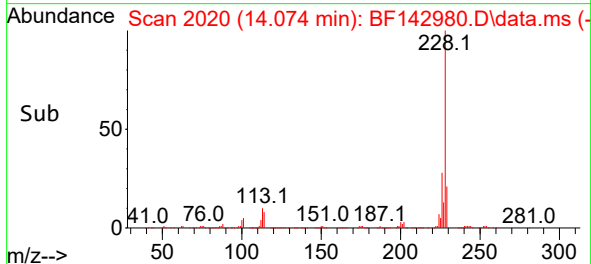
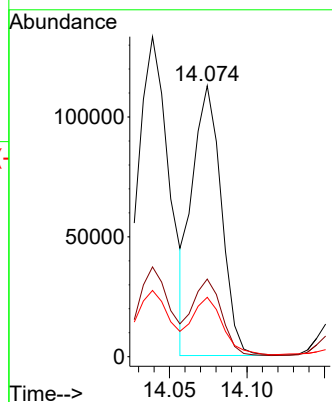
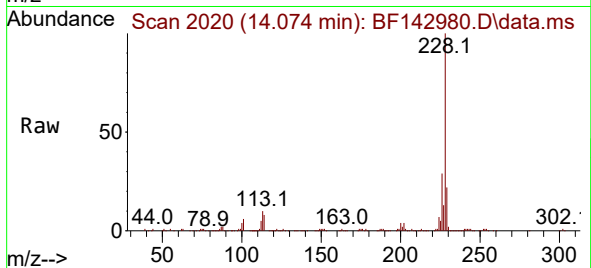




#83
Chrysene
Concen: 17.620 ng
RT: 14.074 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

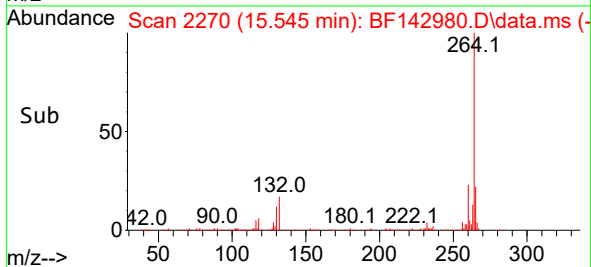
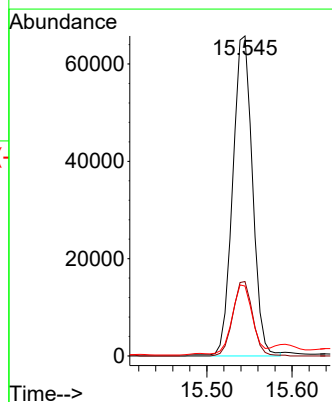
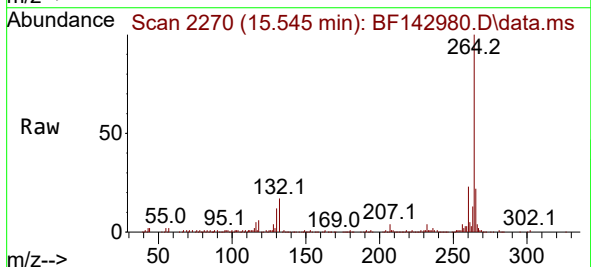
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

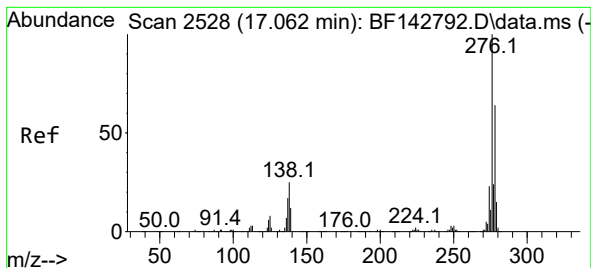
Tgt Ion:228 Resp: 146513
Ion Ratio Lower Upper
228 100
226 28.6 23.7 35.5
229 21.9 15.7 23.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

Tgt Ion:264 Resp: 105923
Ion Ratio Lower Upper
264 100
260 23.3 18.1 27.1
265 21.8 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.436 ng

RT: 17.045 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

Instrument :

BNA_F

ClientSampleId :

PL-2-062725DL

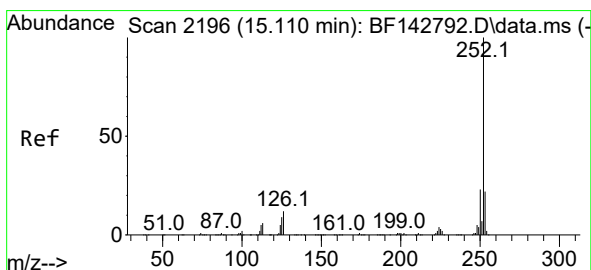
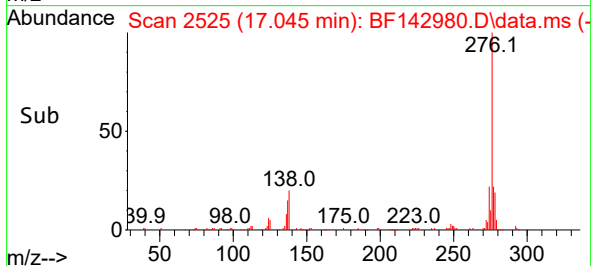
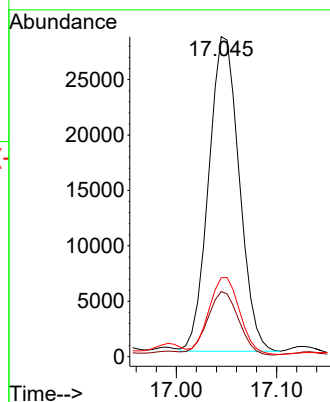
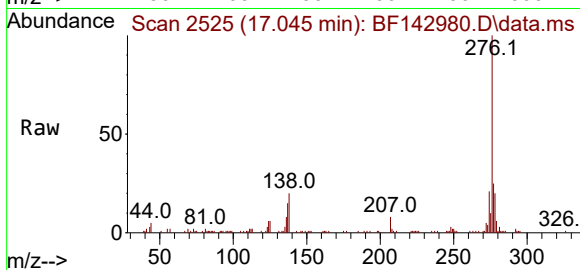
Tgt Ion:276 Resp: 59994

Ion Ratio Lower Upper

276 100

138 20.6 20.2 30.4

277 24.9 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 39.786 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF142980.D

Acq: 02 Jul 2025 19:52

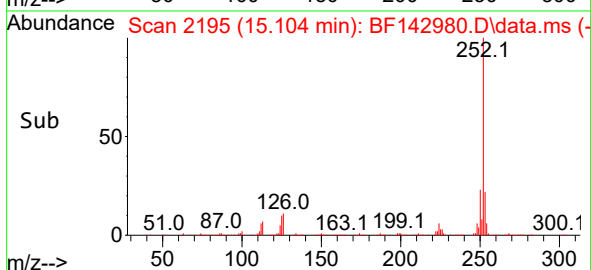
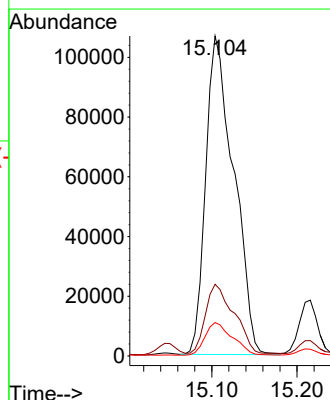
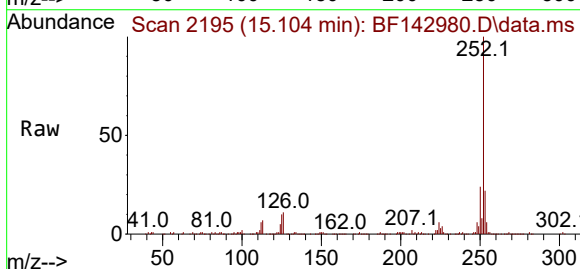
Tgt Ion:252 Resp: 243854

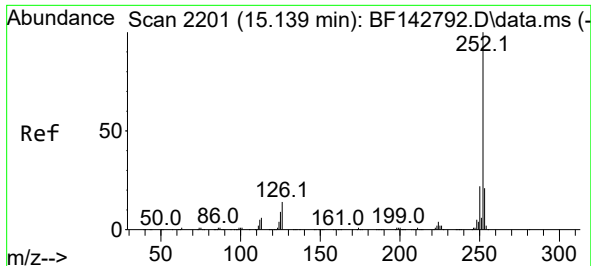
Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 10.5 7.4 11.0

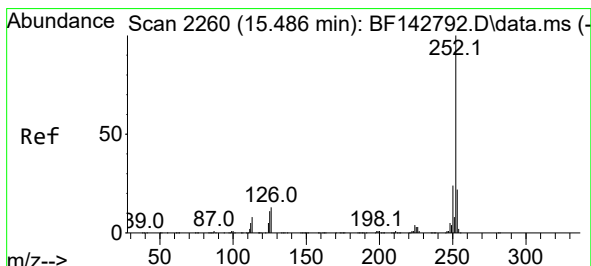
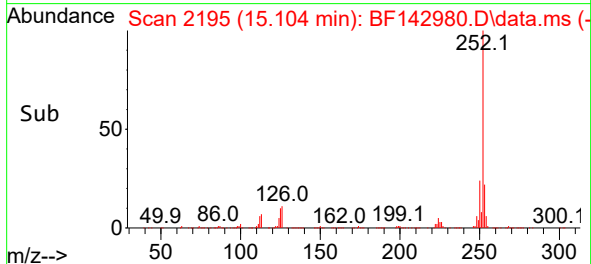
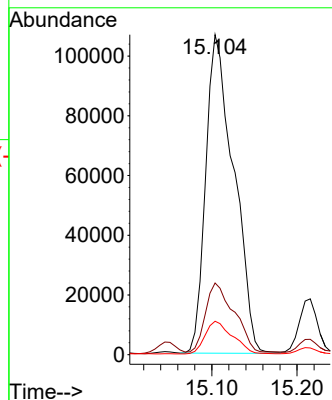
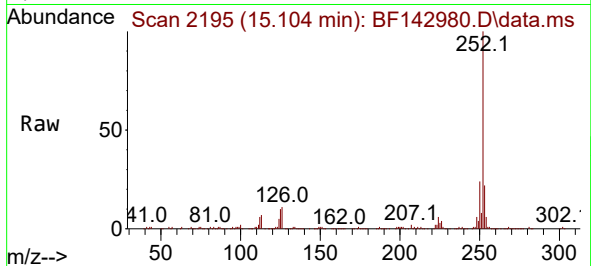




#89
Benzo(k)fluoranthene
Concen: 42.525 ng
RT: 15.104 min Scan# 2195
Delta R.T. -0.035 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

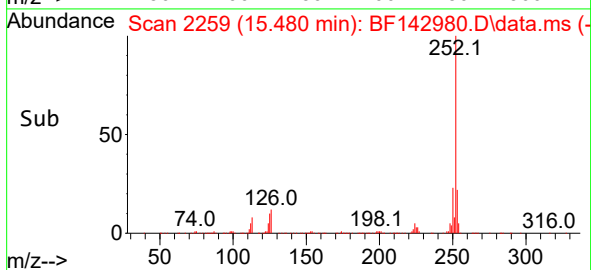
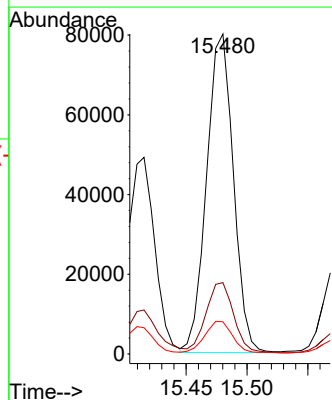
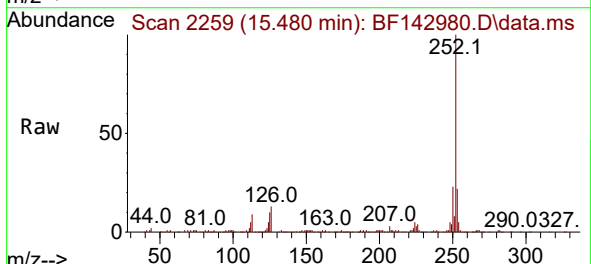
Instrument :
BNA_F
ClientSampleId :
PL-2-062725DL

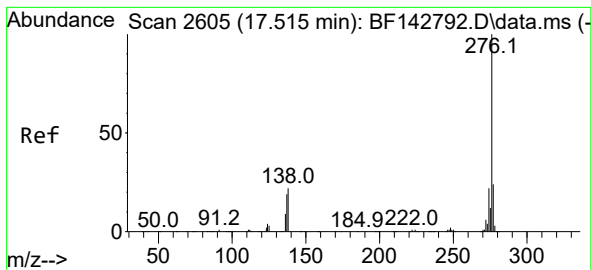
Tgt Ion:252 Resp: 243854
Ion Ratio Lower Upper
252 100
253 22.4 17.2 25.8
125 10.5 7.4 11.2



#90
Benzo(a)pyrene
Concen: 20.670 ng
RT: 15.480 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF142980.D
Acq: 02 Jul 2025 19:52

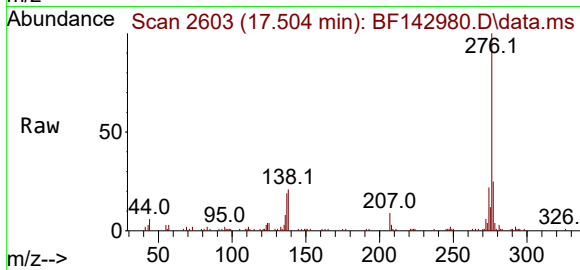
Tgt Ion:252 Resp: 122389
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.0 8.6 12.8





#92
 Benzo(g,h,i)perylene
 Concen: 8.377 ng
 RT: 17.504 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF142980.D
 Acq: 02 Jul 2025 19:52

Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725DL



Tgt Ion:276 Resp: 54762
 Ion Ratio Lower Upper
 276 100
 277 25.0 18.8 28.2
 138 21.4 17.6 26.4

