

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070125\
 Data File : BF142958.D
 Acq On : 01 Jul 2025 19:32
 Operator : RC/JU
 Sample : Q2450-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725

Quant Time: Jul 02 01:03:42 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)

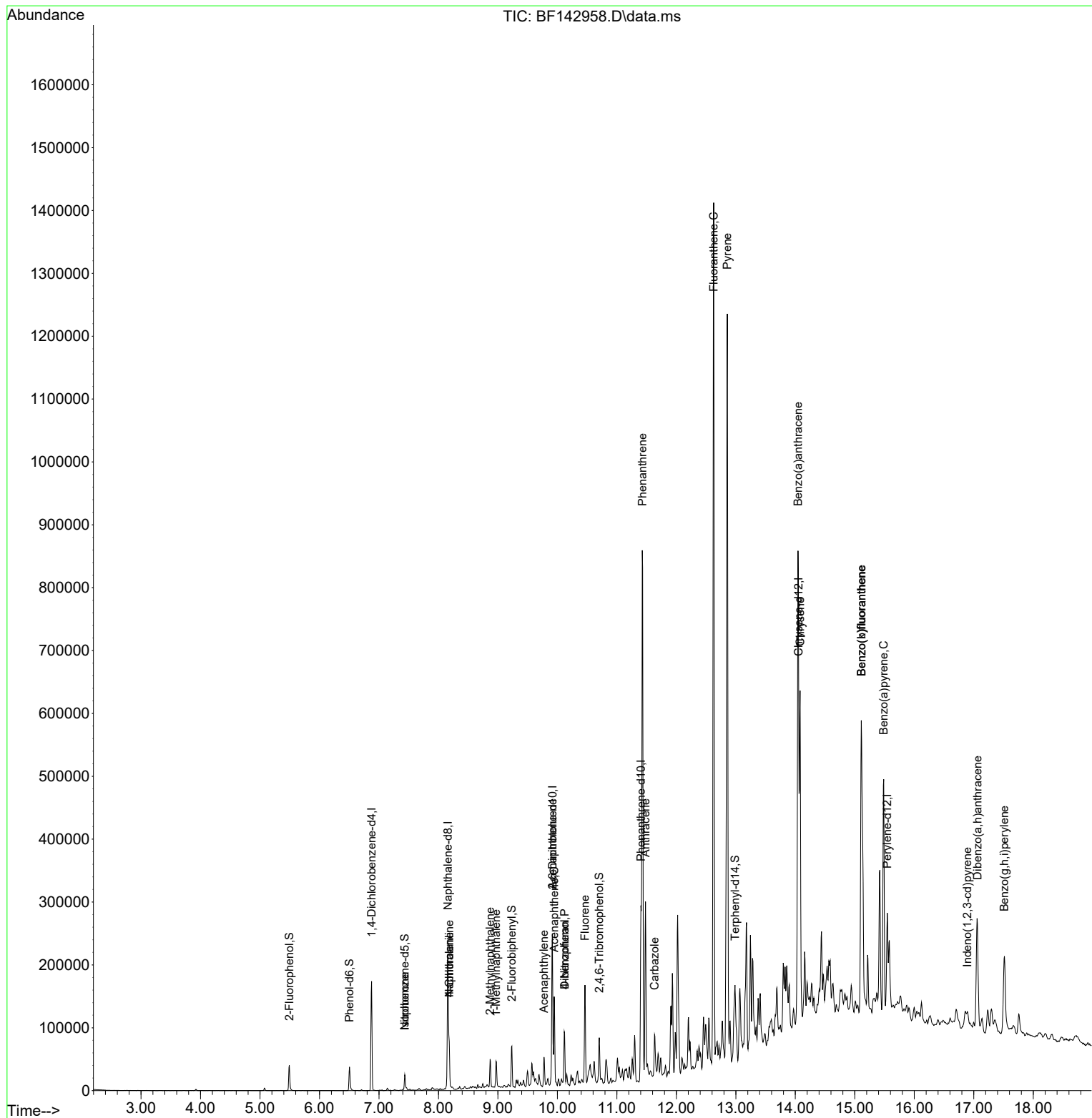
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	38437	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	134866	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	72232	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	141902	20.000	ng	0.00
76) Chrysene-d12	14.057	240	110597	20.000	ng	0.00
86) Perylene-d12	15.545	264	85135	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	18514	8.019	ng	0.00
7) Phenol-d6	6.504	99	20022	7.351	ng	0.00
23) Nitrobenzene-d5	7.434	82	11456	4.659	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	6568	8.836	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	30281	5.507	ng	-0.01
79) Terphenyl-d14	12.986	244	45154	5.641	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.434	82	11456	2.904	ng	# 62
31) Naphthalene	8.181	128	43279	6.556	ng	99
33) 4-Chloroaniline	8.181	127	5721	2.131	ng	# 33
37) 2-Methylnaphthalene	8.869	142	19181	4.687	ng	99
38) 1-Methylnaphthalene	8.969	142	14386	3.396	ng	96
49) Acenaphthylene	9.775	152	25124	3.564	ng	98
51) 2,6-Dinitrotoluene	9.916	165	10449	10.176	ng	# 26
52) Acenaphthene	9.945	154	43267	10.060	ng	99
55) Dibenzofuran	10.122	168	43772	7.098	ng	98
56) 4-Nitrophenol	10.122	139	16288	21.045	ng	# 13
58) Fluorene	10.463	166	62327	12.941	ng	97
71) Phenanthrene	11.427	178	463177	60.256	ng	99
72) Anthracene	11.480	178	157597	19.991	ng	100
73) Carbazole	11.633	167	36433	5.355	ng	100
75) Fluoranthene	12.627	202	818256	112.164	ng	100
78) Pyrene	12.857	202	717037	69.167	ng	98
81) Benzo(a)anthracene	14.045	228	368126	49.340	ng	97
83) Chrysene	14.080	228	265458	39.873	ng	98
87) Indeno(1,2,3-cd)pyrene	16.892	276	24252	3.740	ng	98
88) Benzo(b)fluoranthene	15.110	252	427539	86.787	ng	98
89) Benzo(k)fluoranthene	15.110	252	427539	92.763	ng	98
90) Benzo(a)pyrene	15.486	252	225949	47.477	ng	99
91) Dibenzo(a,h)anthracene	17.062	278	32399	6.149	ng	# 78
92) Benzo(g,h,i)perylene	17.515	276	121075	23.045	ng	97

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

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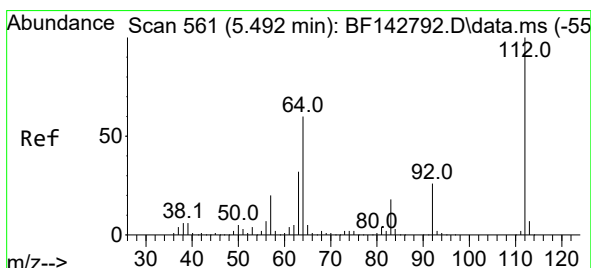
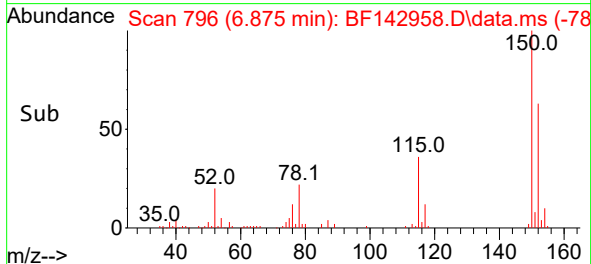
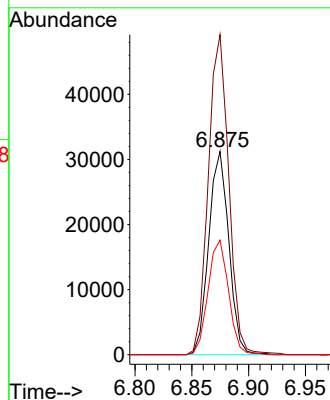
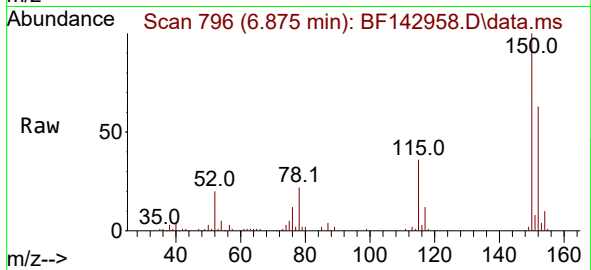




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

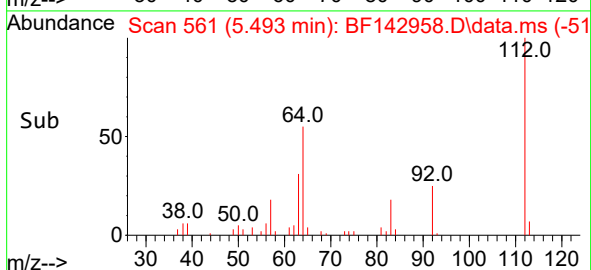
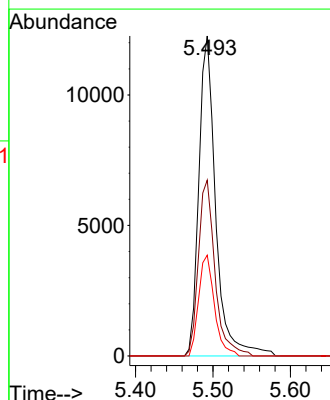
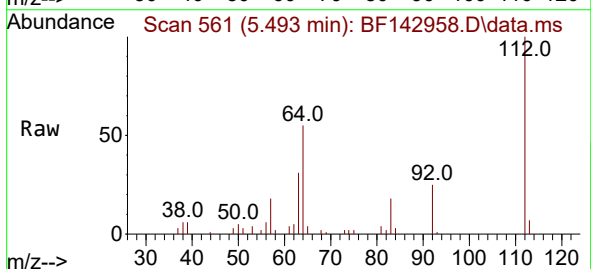
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

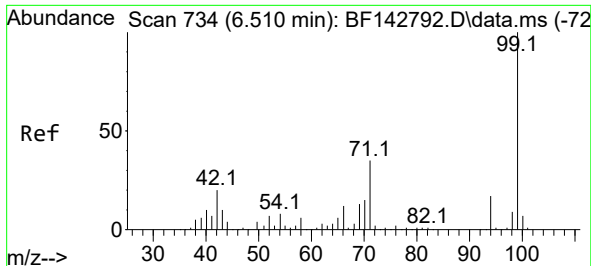
Tgt Ion:152 Resp: 38437
Ion Ratio Lower Upper
152 100
150 157.5 127.2 190.8
115 56.4 46.6 69.8



#5
2-Fluorophenol
Concen: 8.019 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:112 Resp: 18514
Ion Ratio Lower Upper
112 100
64 54.9 48.2 72.2
63 31.5 25.7 38.5

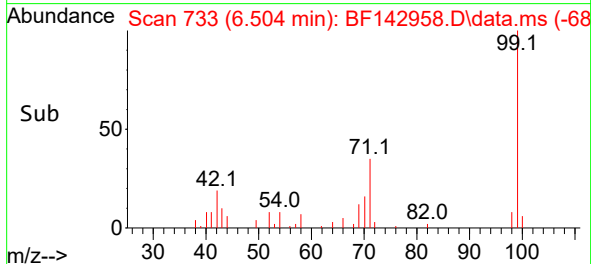
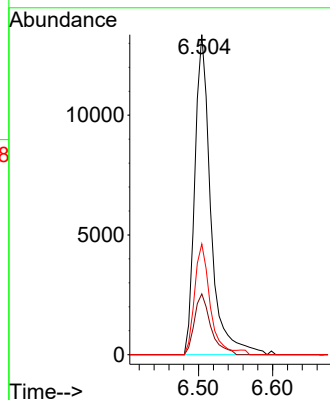
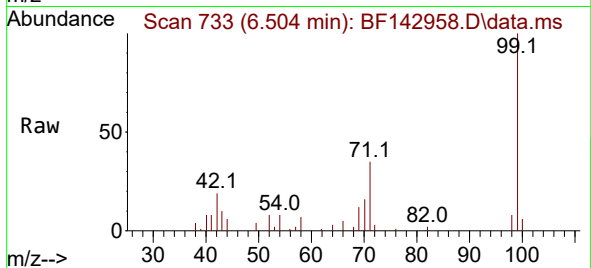




#7
Phenol-d6
Concen: 7.351 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

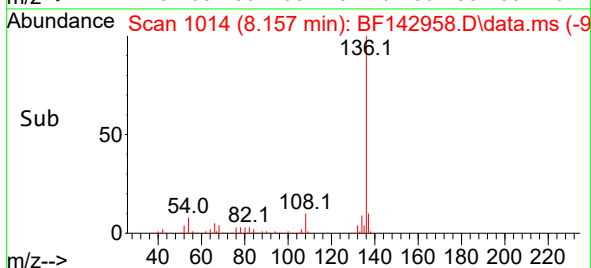
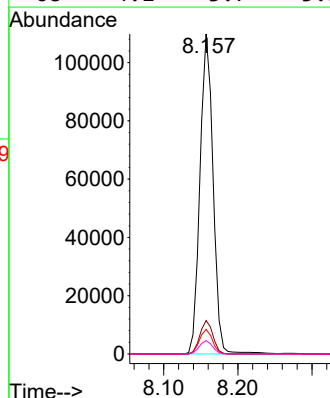
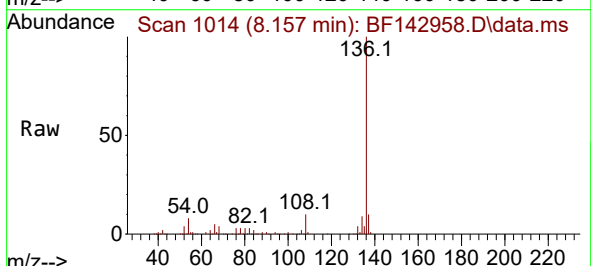
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

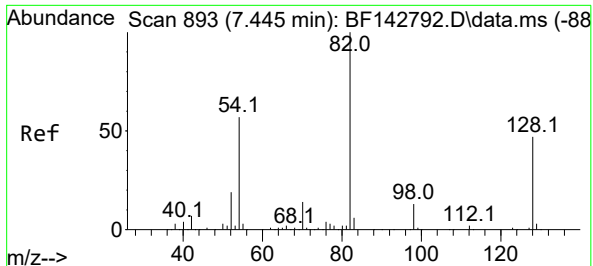
Tgt Ion: 99 Resp: 20022
Ion Ratio Lower Upper
99 100
42 19.0 15.9 23.9
71 34.6 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion: 136 Resp: 134866
Ion Ratio Lower Upper
136 100
137 10.5 8.4 12.6
54 7.7 6.3 9.5
68 4.1 3.7 5.5





#23

Nitrobenzene-d5

Concen: 4.659 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.011 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

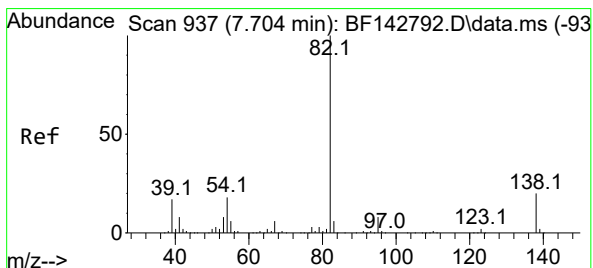
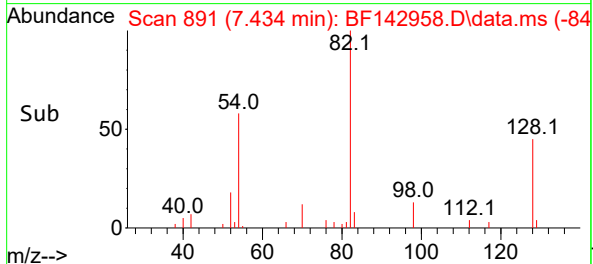
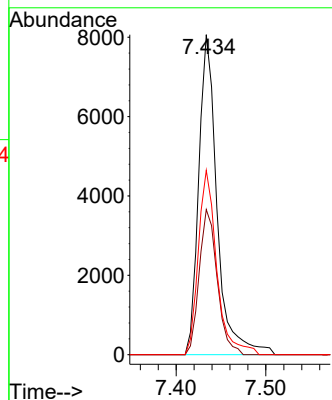
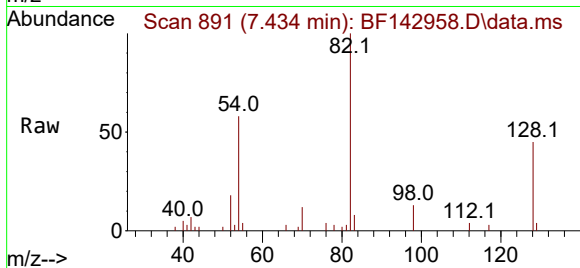
Tgt Ion: 82 Resp: 11456

Ion Ratio Lower Upper

82 100

128 45.3 37.7 56.5

54 57.6 45.7 68.5



#25

Isophorone

Concen: 2.904 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.271 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

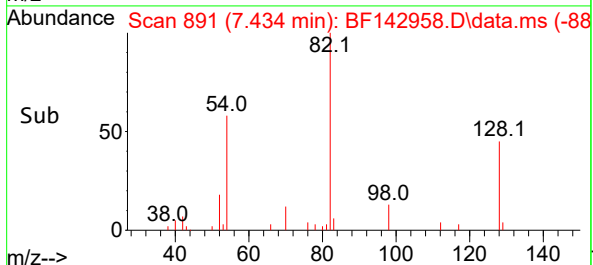
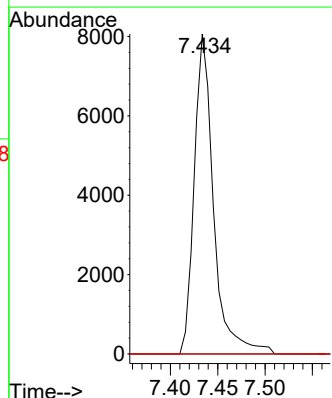
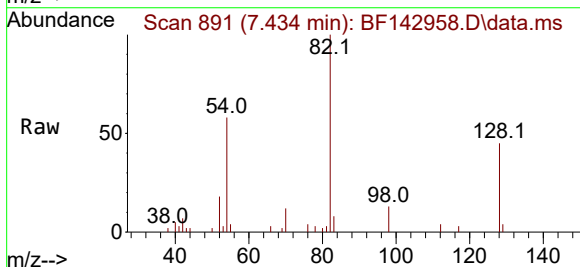
Tgt Ion: 82 Resp: 11456

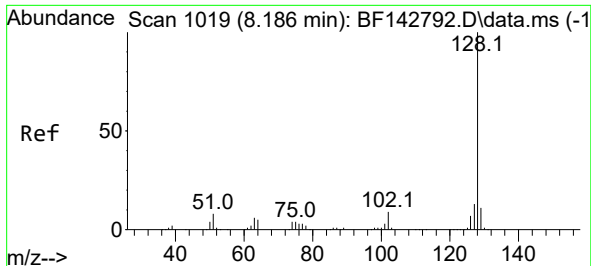
Ion Ratio Lower Upper

82 100

95 0.0 6.2 9.2#

138 0.0 16.2 24.4#

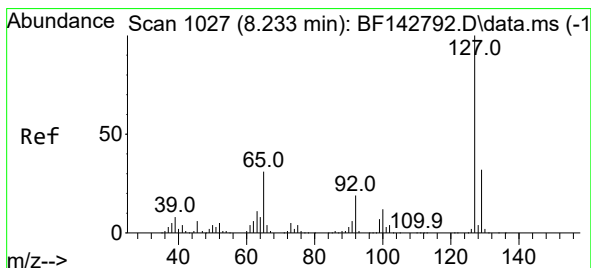
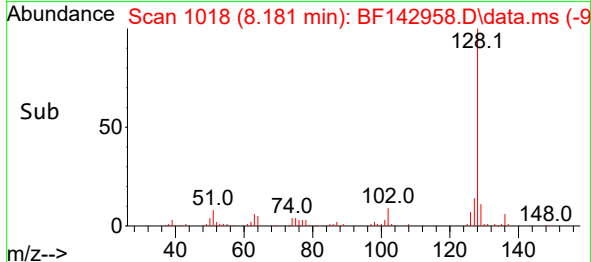
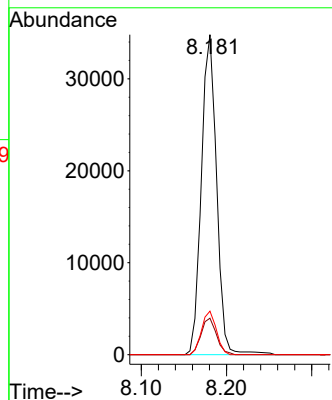
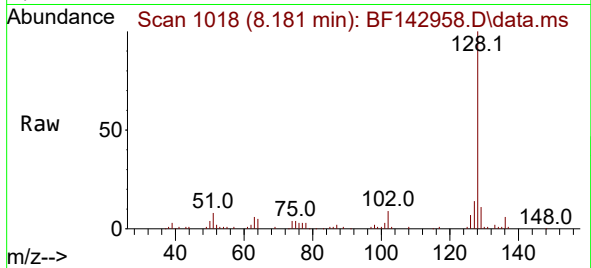




#31
Naphthalene
Concen: 6.556 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

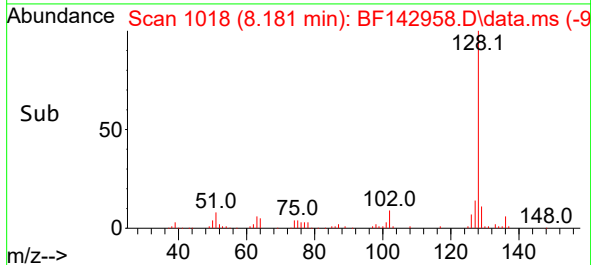
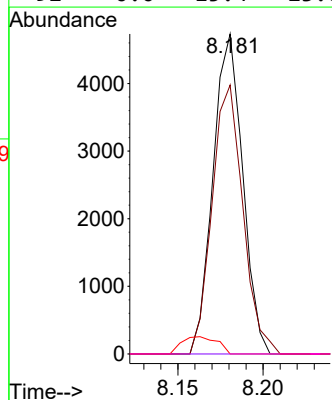
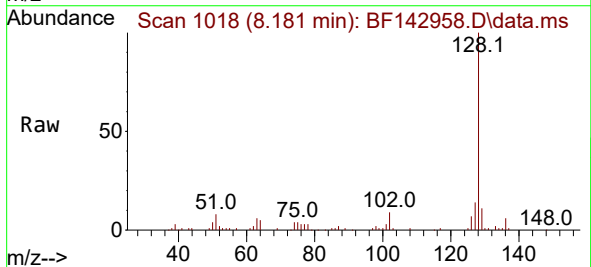
Instrument :
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PL-2-062725

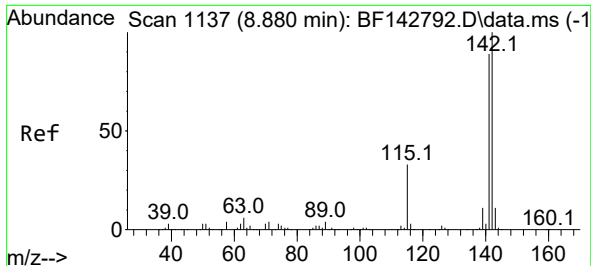
Tgt Ion:128 Resp: 43279
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.6 10.4 15.6



#33
4-Chloroaniline
Concen: 2.131 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.053 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:127 Resp: 5721
Ion Ratio Lower Upper
127 100
129 84.0 25.9 38.9#
65 0.0 24.6 36.8#
92 0.0 15.4 23.0#

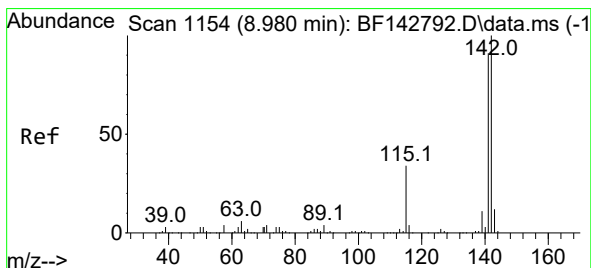
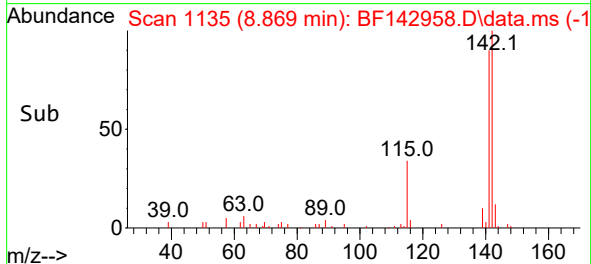
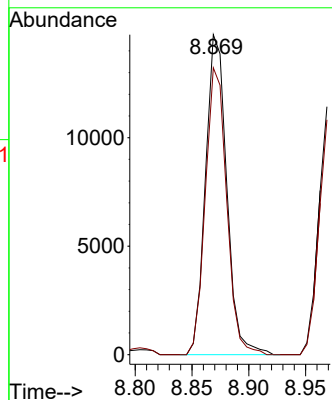
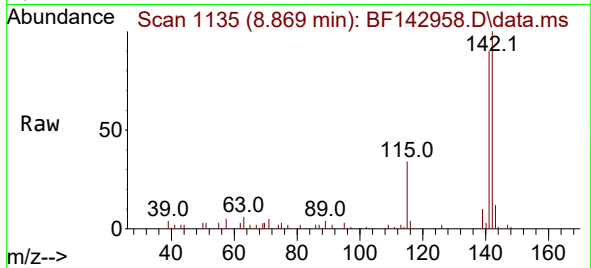




#37
2-Methylnaphthalene
Concen: 4.687 ng
RT: 8.869 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

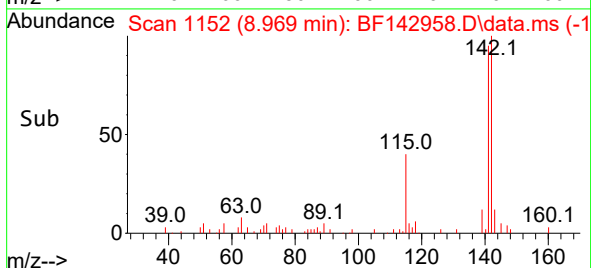
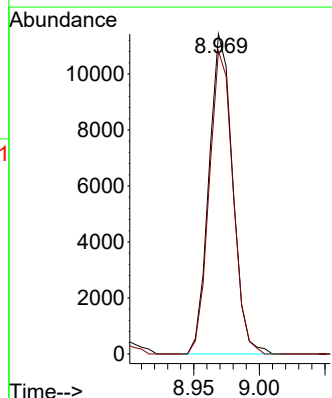
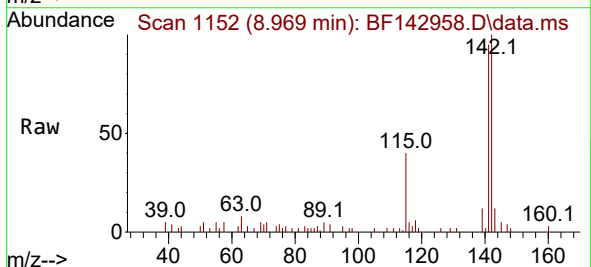
Instrument :
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ClientSampleId :
PL-2-062725

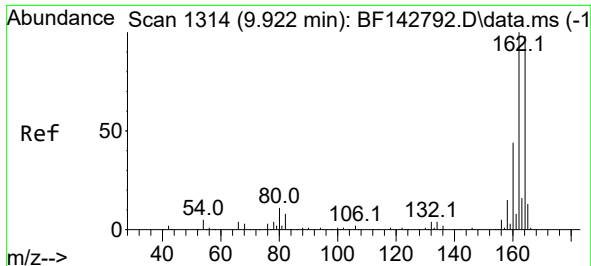
Tgt Ion:142 Resp: 19181
Ion Ratio Lower Upper
142 100
141 89.6 70.9 106.3



#38
1-Methylnaphthalene
Concen: 3.396 ng
RT: 8.969 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:142 Resp: 14386
Ion Ratio Lower Upper
142 100
141 94.7 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: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

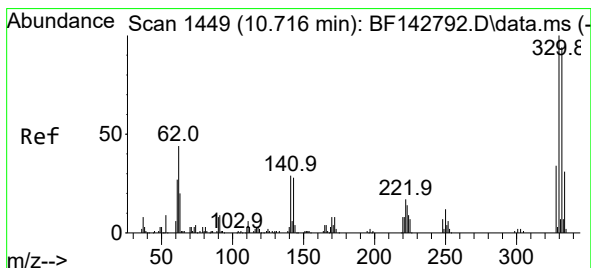
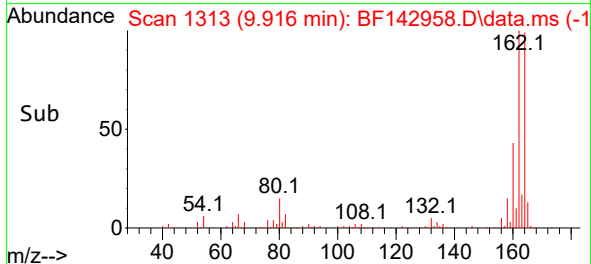
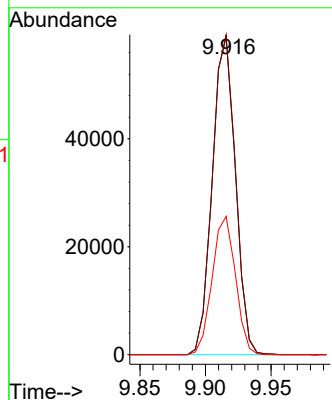
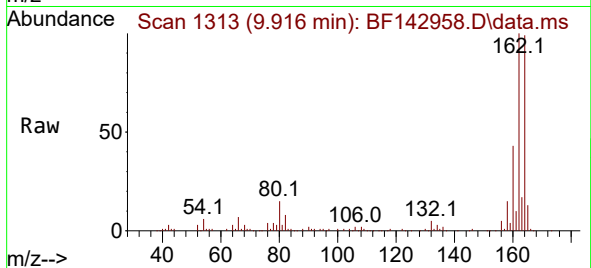
Tgt Ion:164 Resp: 72232

Ion Ratio Lower Upper

164 100

162 100.8 81.8 122.8

160 43.6 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 8.836 ng

RT: 10.704 min Scan# 1447

Delta R.T. -0.012 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

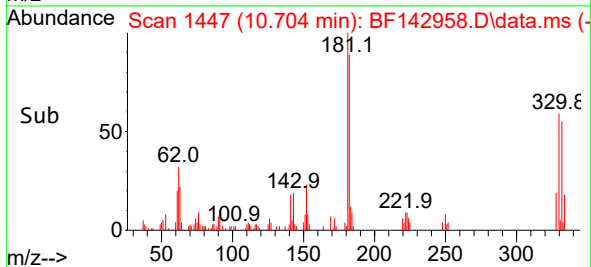
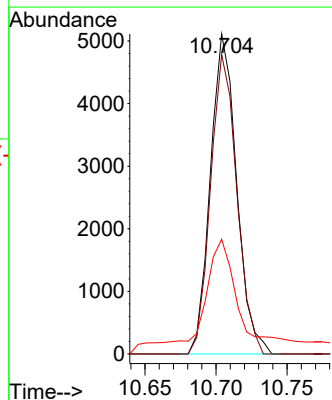
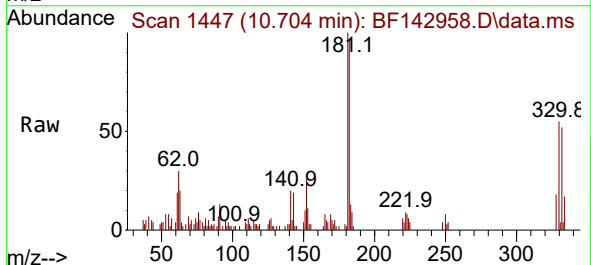
Tgt Ion:330 Resp: 6568

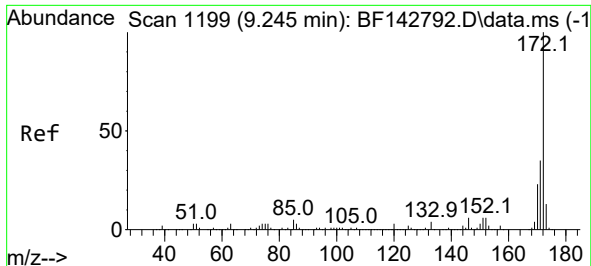
Ion Ratio Lower Upper

330 100

332 93.1 75.0 112.6

141 57.5 25.3 37.9#





#45

2-Fluorobiphenyl

Concen: 5.507 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

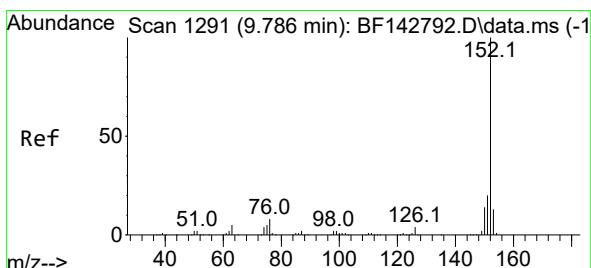
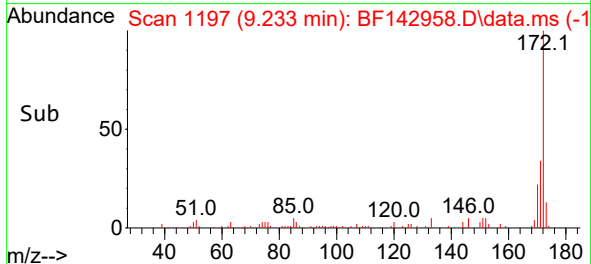
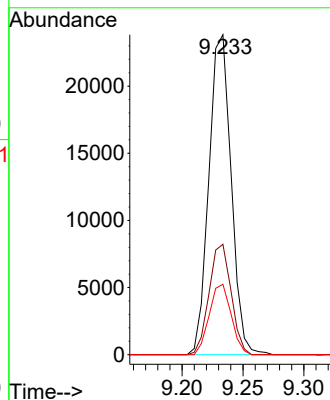
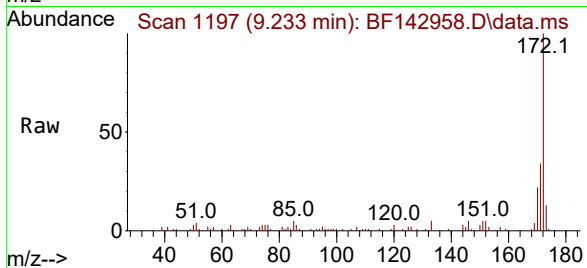
Tgt Ion:172 Resp: 30281

Ion Ratio Lower Upper

172 100

171 34.5 28.2 42.4

170 22.0 18.5 27.7



#49

Acenaphthylene

Concen: 3.564 ng

RT: 9.775 min Scan# 1289

Delta R.T. -0.012 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

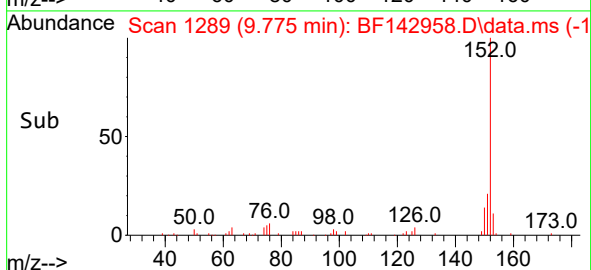
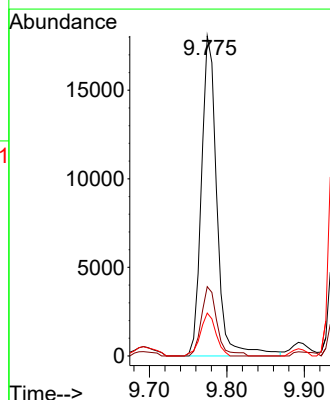
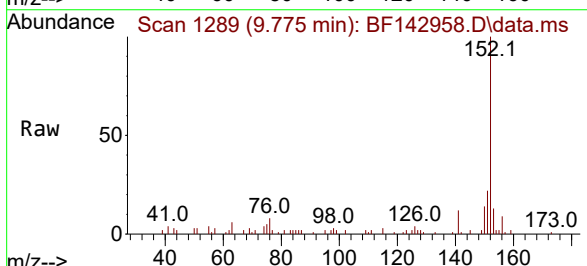
Tgt Ion:152 Resp: 25124

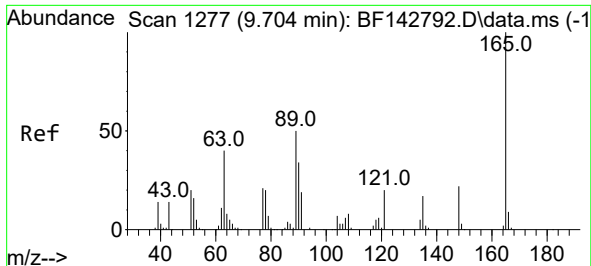
Ion Ratio Lower Upper

152 100

151 21.7 16.1 24.1

153 13.4 10.4 15.6

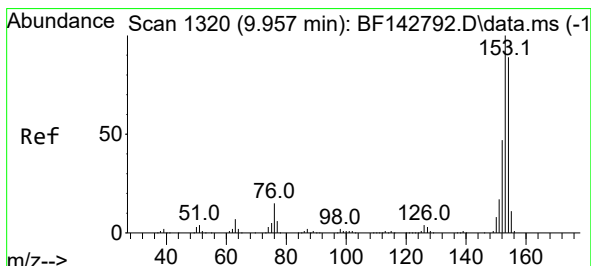
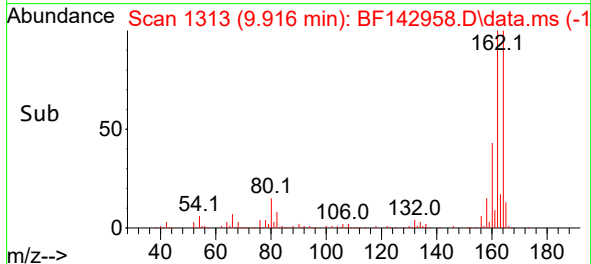
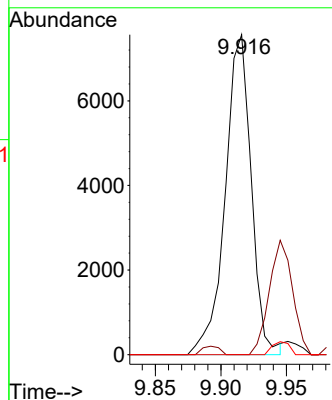
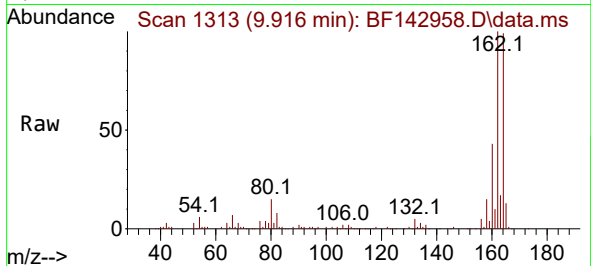




#51
2,6-Dinitrotoluene
Concen: 10.176 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

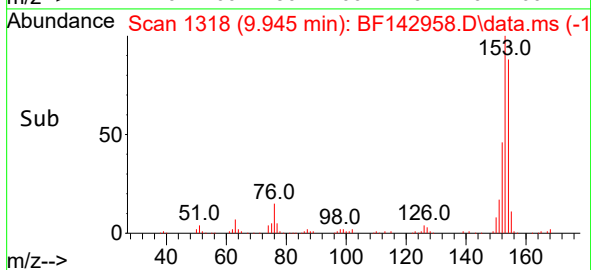
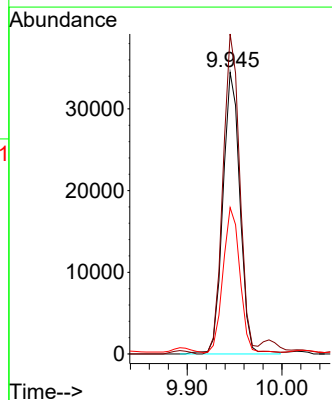
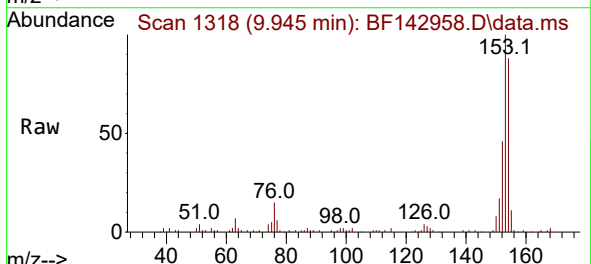
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

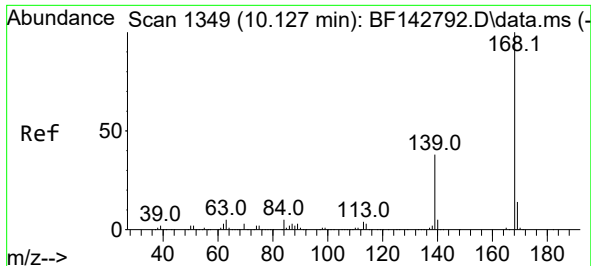
Tgt Ion:165 Resp: 10449
Ion Ratio Lower Upper
165 100
63 0.0 44.2 66.4#
89 0.0 39.8 59.8#



#52
Acenaphthene
Concen: 10.060 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:154 Resp: 43267
Ion Ratio Lower Upper
154 100
153 113.6 90.0 135.0
152 52.0 41.9 62.9

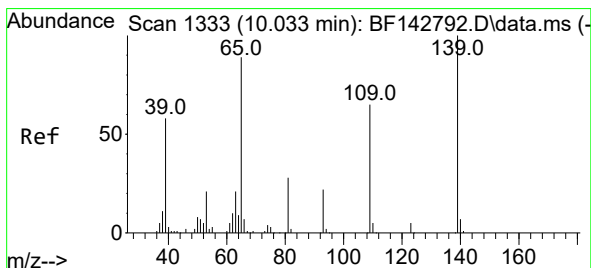
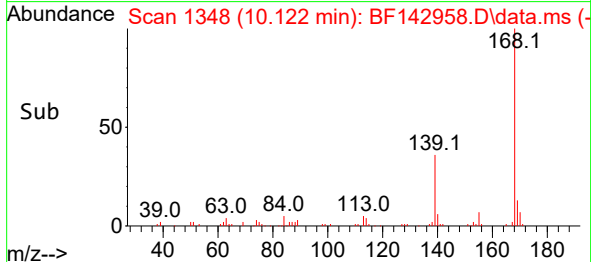
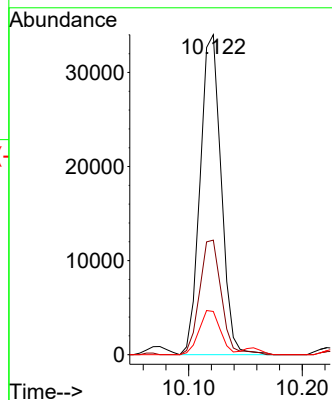
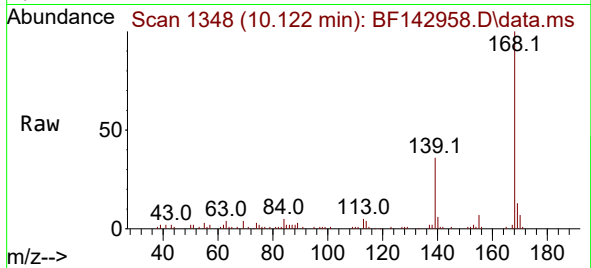




#55
Dibenzenofuran
Concen: 7.098 ng
RT: 10.122 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

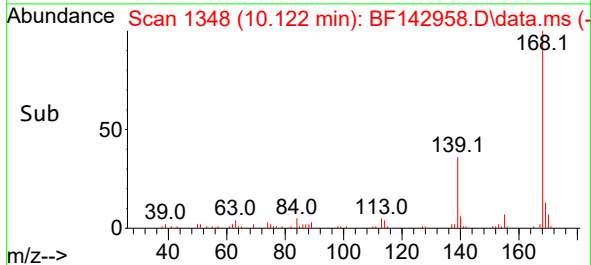
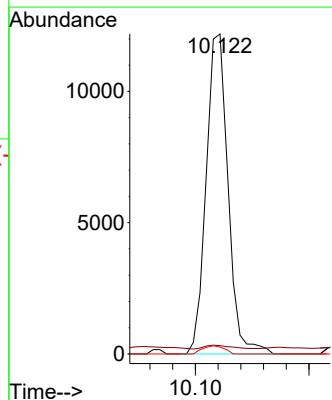
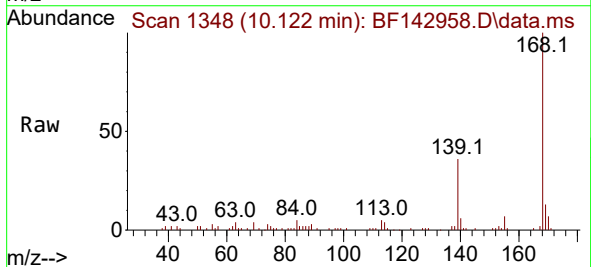
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

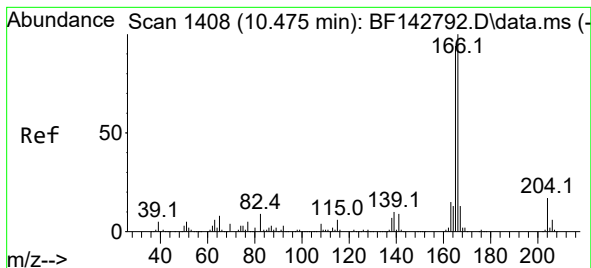
Tgt Ion:168 Resp: 43772
Ion Ratio Lower Upper
168 100
139 35.8 30.2 45.4
169 13.5 10.8 16.2



#56
4-Nitrophenol
Concen: 21.045 ng
RT: 10.122 min Scan# 1348
Delta R.T. 0.088 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:139 Resp: 16288
Ion Ratio Lower Upper
139 100
109 2.6 44.7 84.7#
65 2.1 69.8 109.8#





#58

Fluorene

Concen: 12.941 ng

RT: 10.463 min Scan# 1408

Delta R.T. -0.012 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

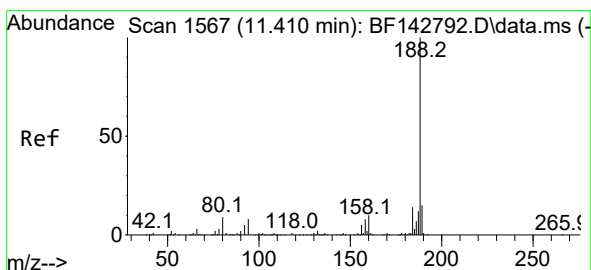
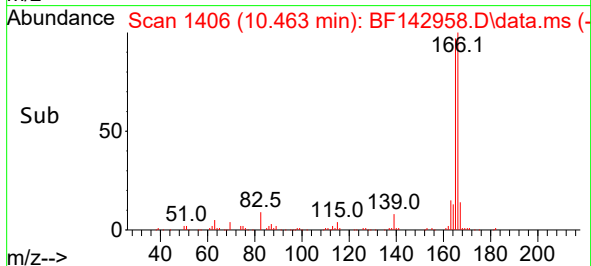
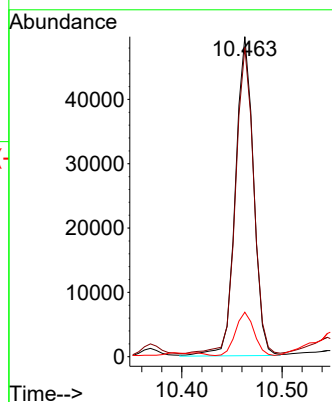
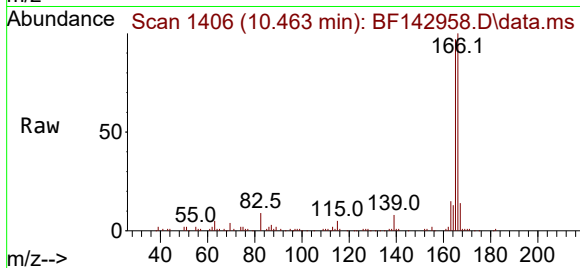
Tgt Ion:166 Resp: 62327

Ion Ratio Lower Upper

166 100

165 96.6 75.2 112.8

167 13.9 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: BF142958.D

Acq: 01 Jul 2025 19:32

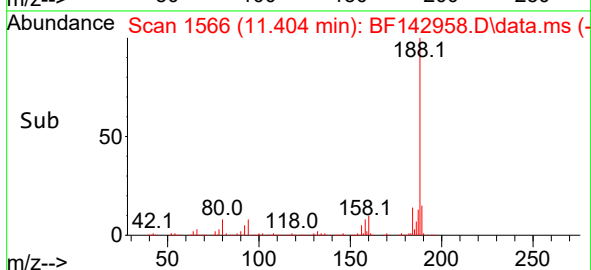
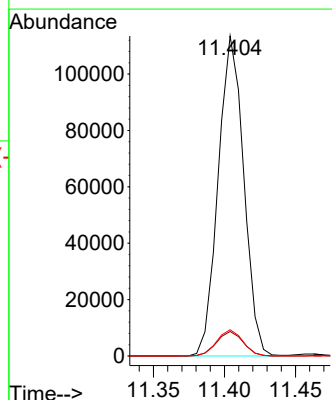
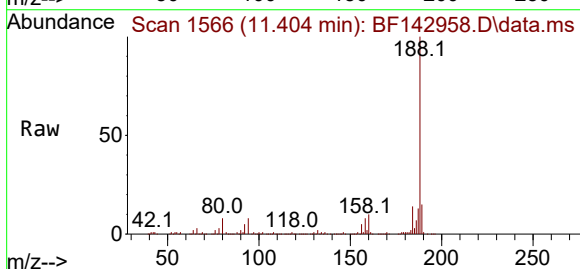
Tgt Ion:188 Resp: 141902

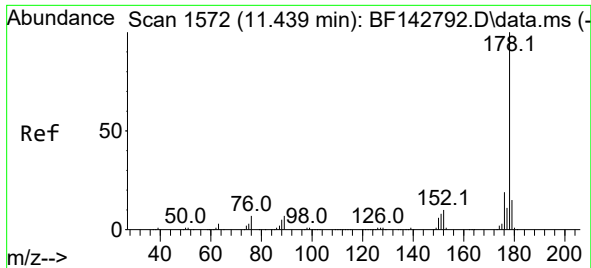
Ion Ratio Lower Upper

188 100

94 7.6 6.7 10.1

80 8.2 6.9 10.3

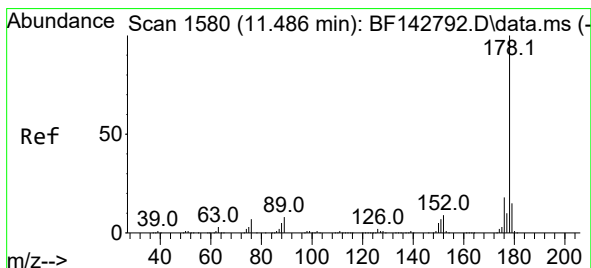
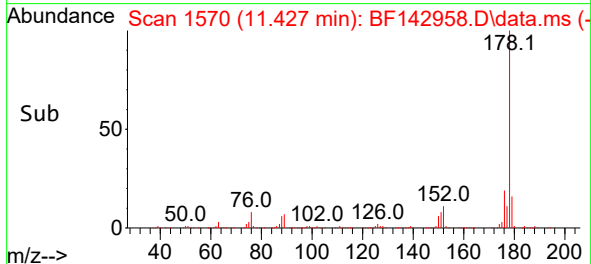
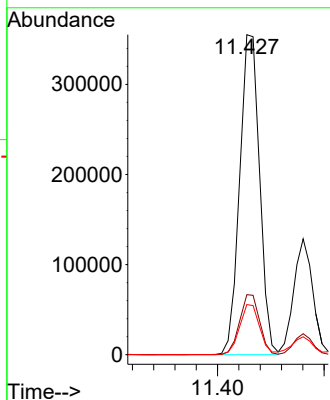
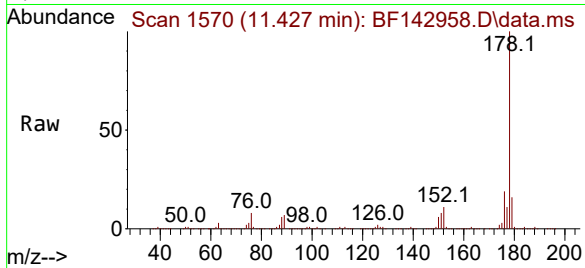




#71
Phenanthrene
Concen: 60.256 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

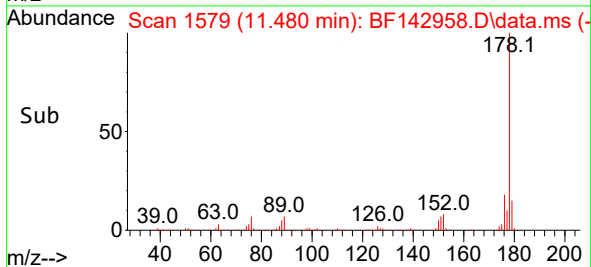
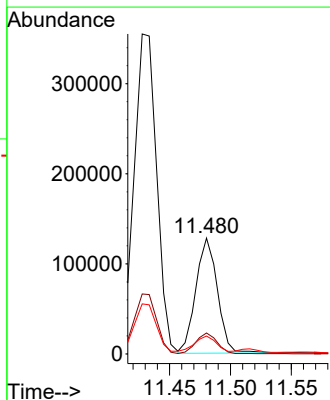
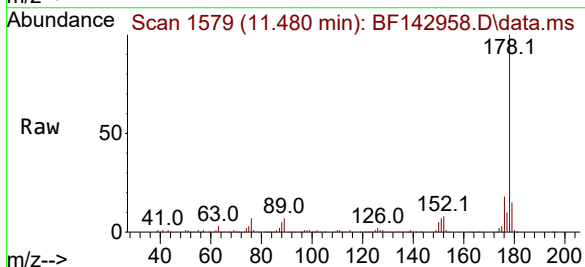
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

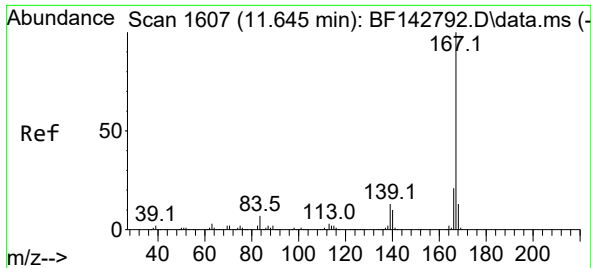
Tgt Ion:178 Resp: 463177
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.6 12.0 18.0



#72
Anthracene
Concen: 19.991 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:178 Resp: 157597
Ion Ratio Lower Upper
178 100
176 18.1 14.6 21.8
179 15.4 12.4 18.6

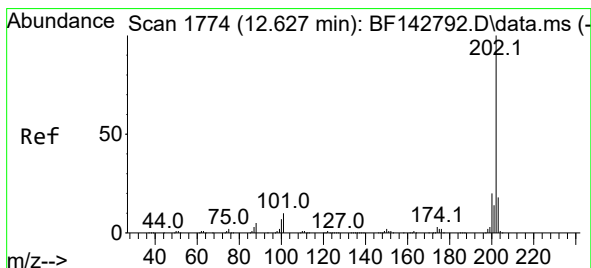
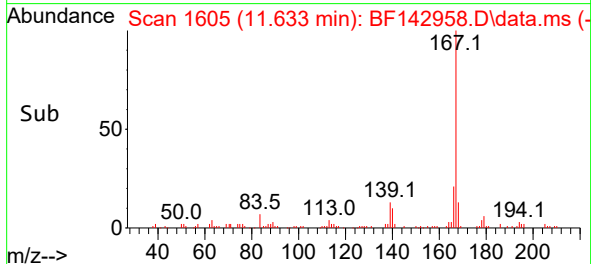
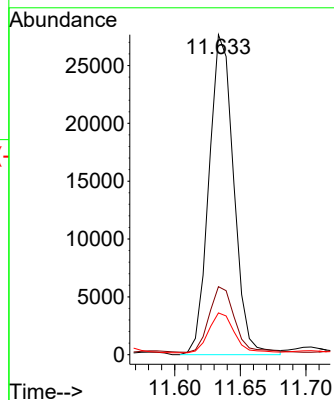
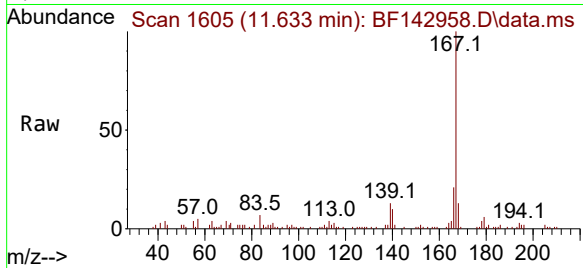




#73
 Carbazole
 Concen: 5.355 ng
 RT: 11.633 min Scan# 1605
 Delta R.T. -0.012 min
 Lab File: BF142958.D
 Acq: 01 Jul 2025 19:32

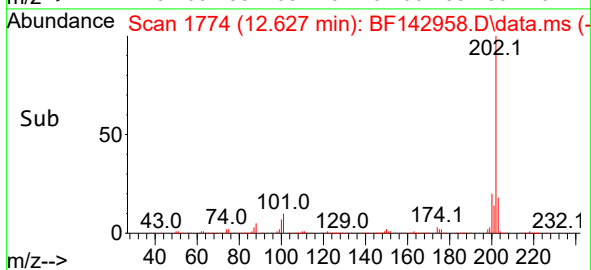
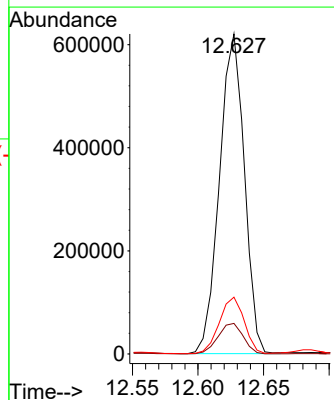
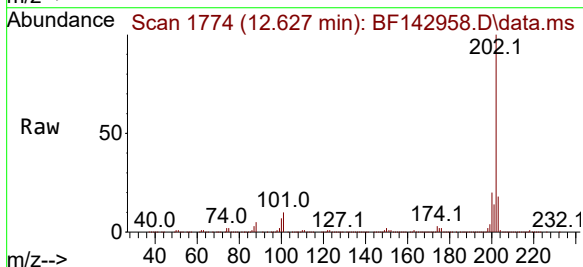
Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725

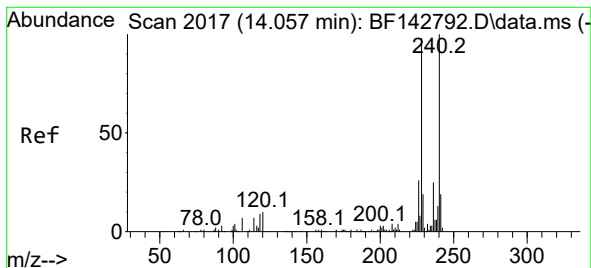
Tgt Ion:167 Resp: 36433
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.0 25.4
 139 13.1 10.2 15.2



#75
 Fluoranthene
 Concen: 112.164 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF142958.D
 Acq: 01 Jul 2025 19:32

Tgt Ion:202 Resp: 818256
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 29.7
 203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

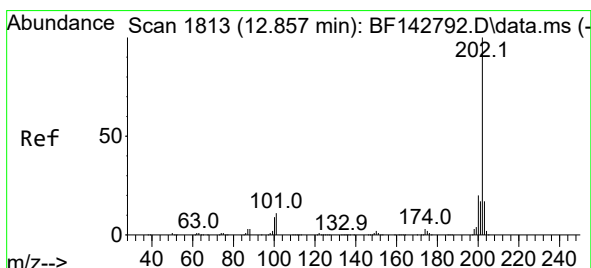
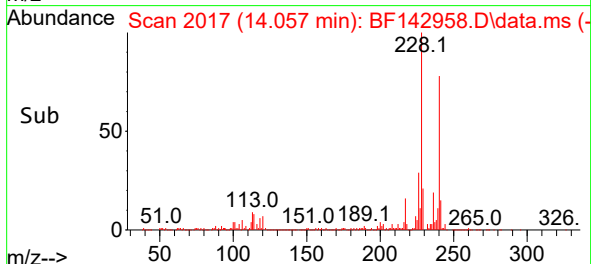
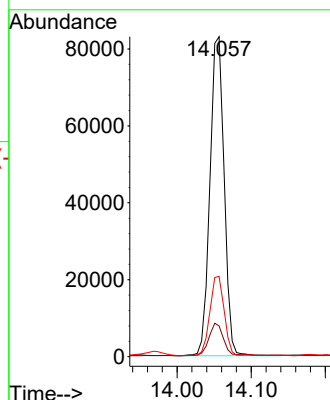
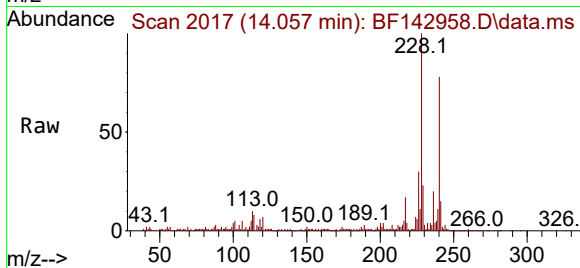
Tgt Ion:240 Resp: 110597

Ion Ratio Lower Upper

240 100

120 9.6 8.2 12.2

236 25.1 19.8 29.8



#78

Pyrene

Concen: 69.167 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

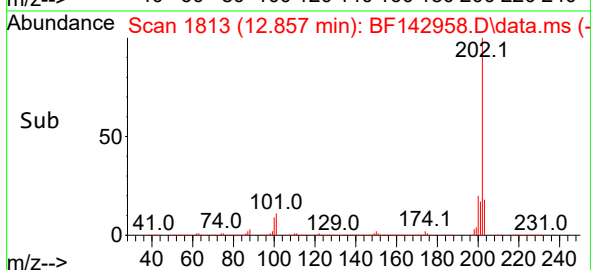
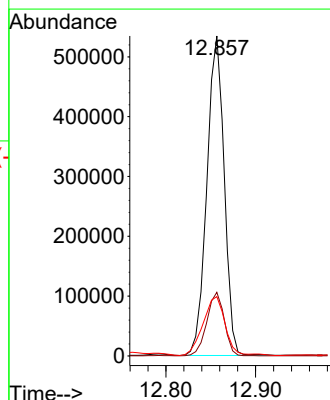
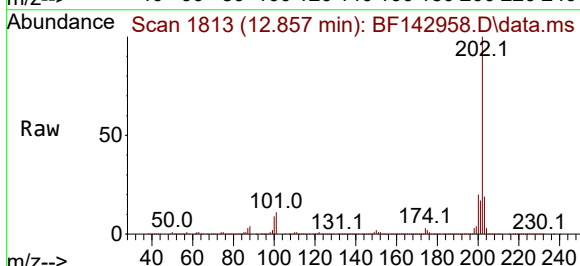
Tgt Ion:202 Resp: 717037

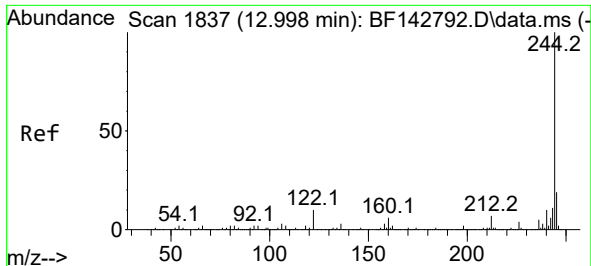
Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

203 18.5 13.8 20.6

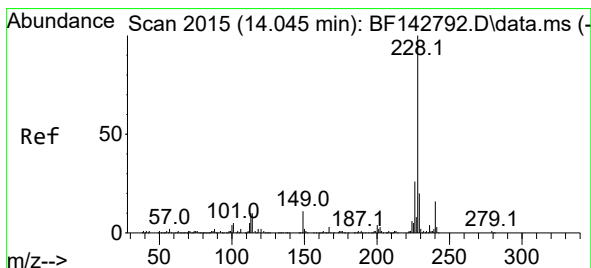
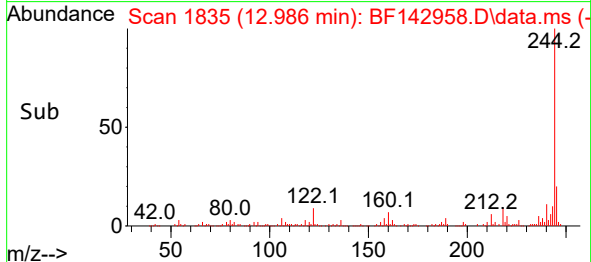
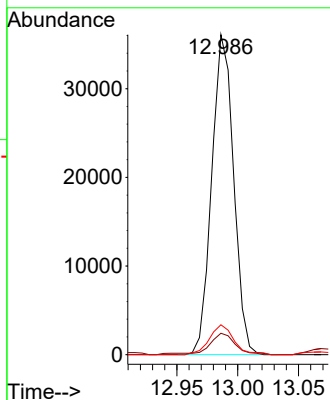
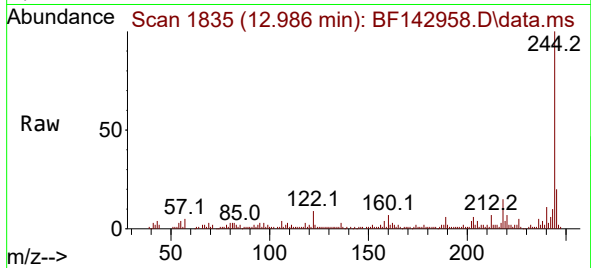




#79
 Terphenyl-d14
 Concen: 5.641 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF142958.D
 Acq: 01 Jul 2025 19:32

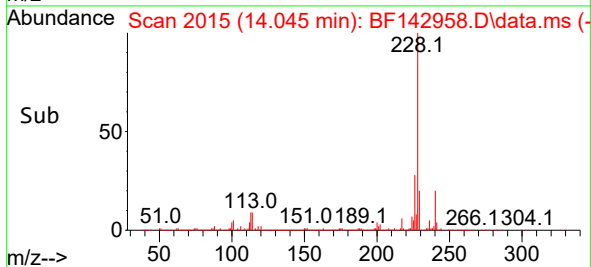
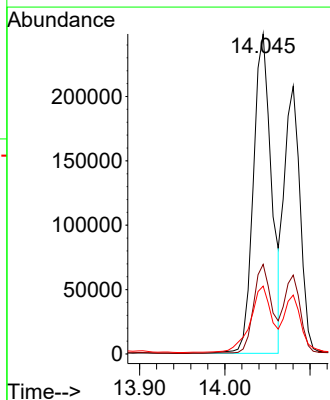
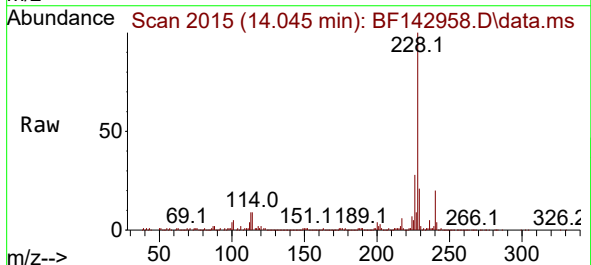
Instrument :
 BNA_F
 ClientSampleId :
 PL-2-062725

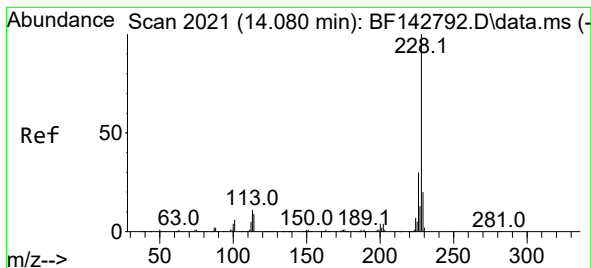
Tgt Ion:244 Resp: 45154
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 9.4 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 49.340 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: BF142958.D
 Acq: 01 Jul 2025 19:32

Tgt Ion:228 Resp: 368126
 Ion Ratio Lower Upper
 228 100
 226 28.0 21.2 31.8
 229 21.2 15.6 23.4





#83

Chrysene

Concen: 39.873 ng

RT: 14.080 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

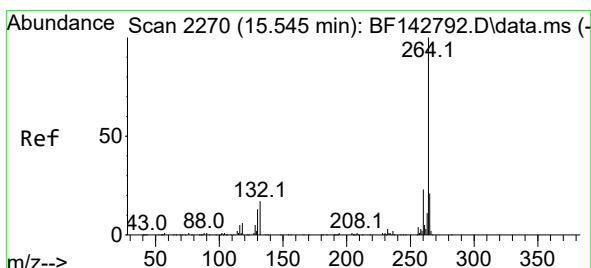
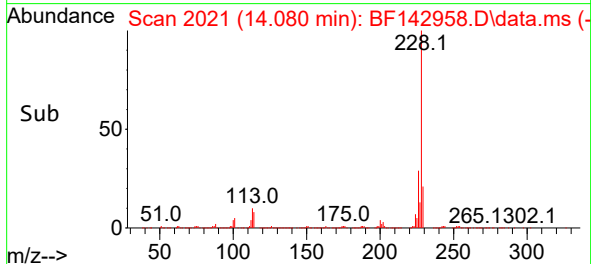
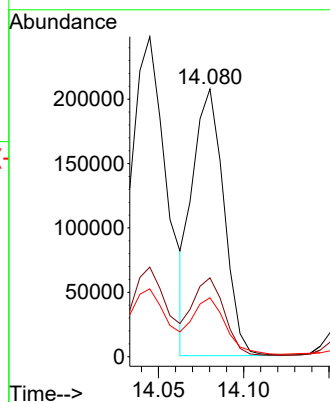
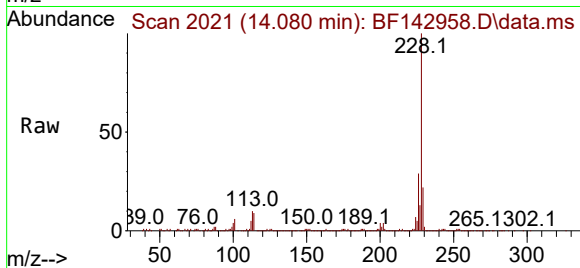
Tgt Ion:228 Resp: 265458

Ion Ratio Lower Upper

228 100

226 29.4 23.7 35.5

229 22.0 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: BF142958.D

Acq: 01 Jul 2025 19:32

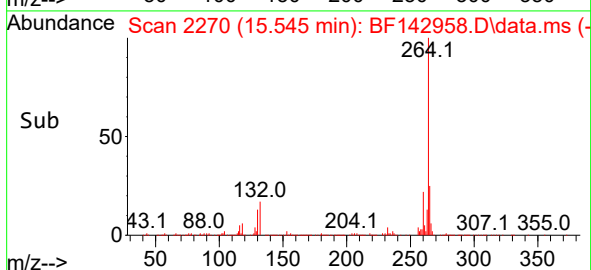
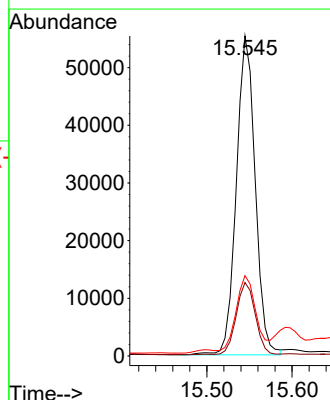
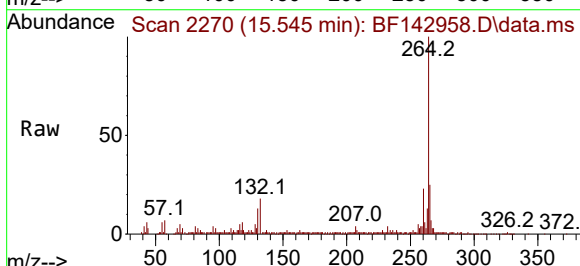
Tgt Ion:264 Resp: 85135

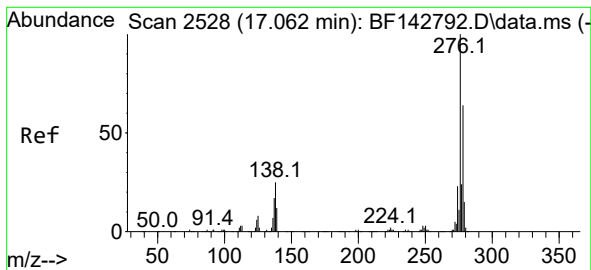
Ion Ratio Lower Upper

264 100

260 22.9 18.1 27.1

265 25.1 16.6 25.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.740 ng

RT: 16.892 min Scan# 2499

Delta R.T. -0.171 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

Instrument :

BNA_F

ClientSampleId :

PL-2-062725

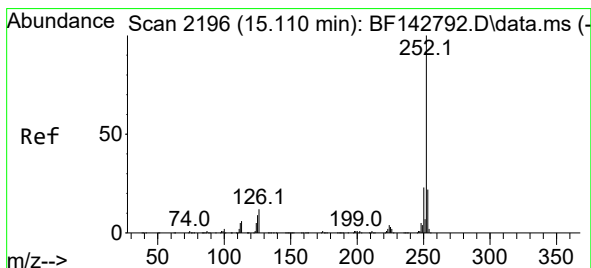
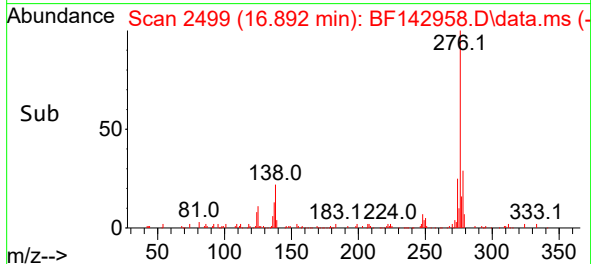
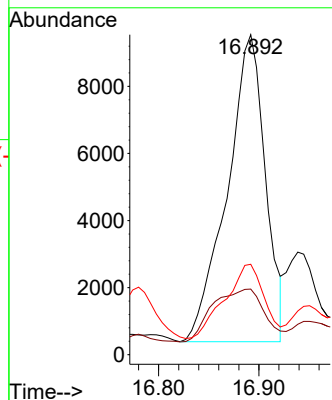
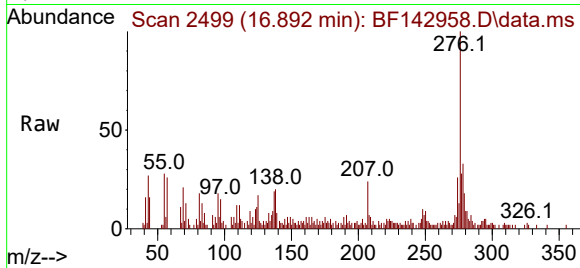
Tgt Ion:276 Resp: 24252

Ion Ratio Lower Upper

276 100

138 23.5 20.2 30.4

277 24.7 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 86.787 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF142958.D

Acq: 01 Jul 2025 19:32

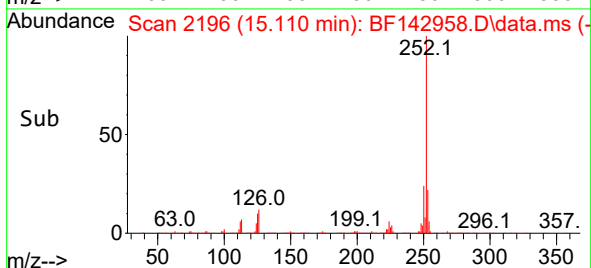
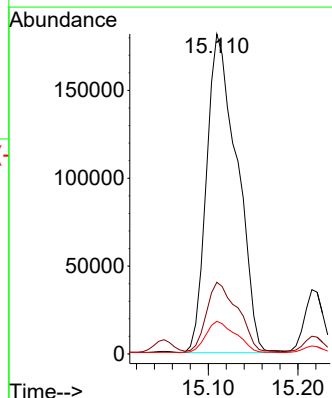
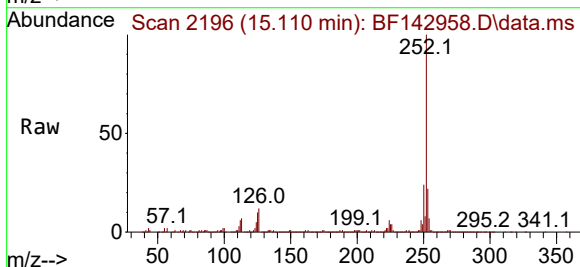
Tgt Ion:252 Resp: 427539

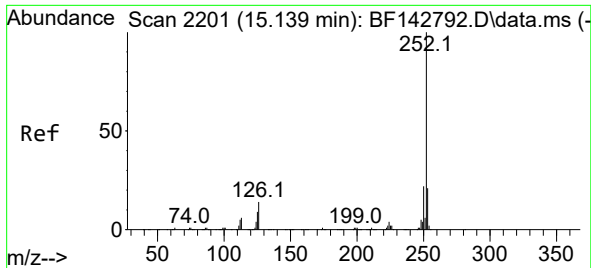
Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 10.2 7.4 11.0

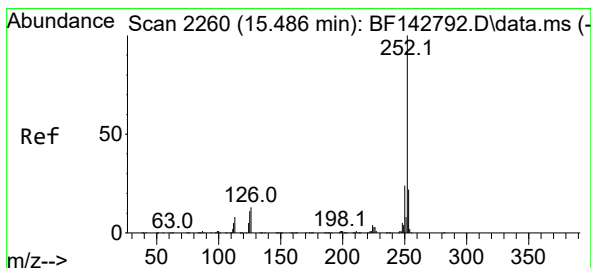
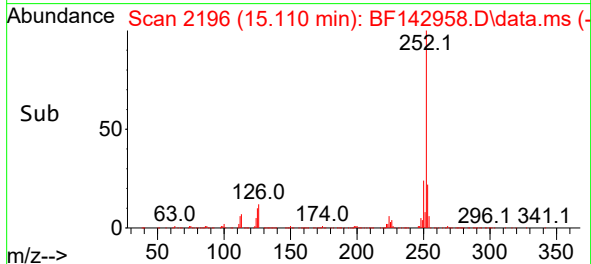
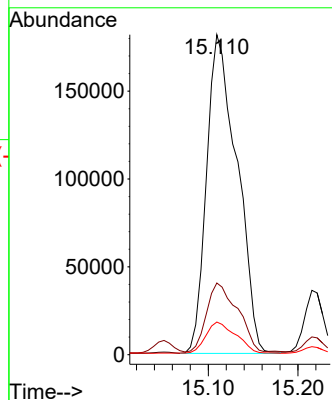
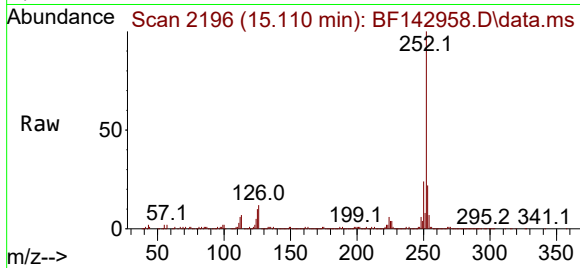




#89
Benzo(k)fluoranthene
Concen: 92.763 ng
RT: 15.110 min Scan# 2196
Delta R.T. -0.029 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

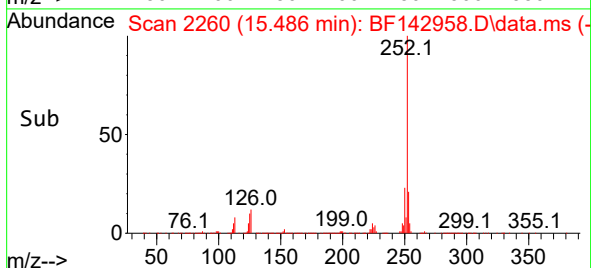
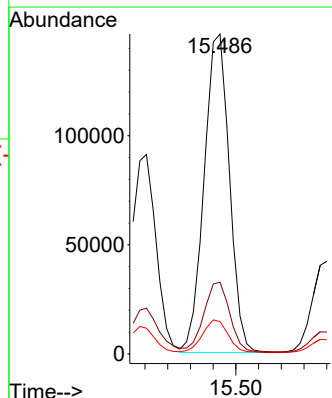
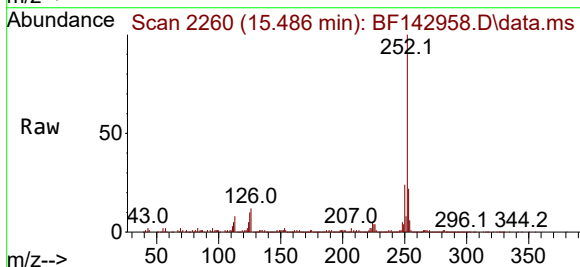
Instrument :
BNA_F
ClientSampleId :
PL-2-062725

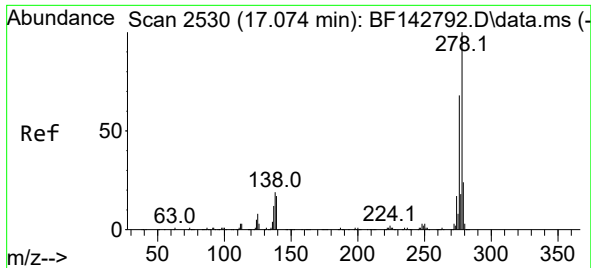
Tgt Ion:252 Resp: 427539
Ion Ratio Lower Upper
252 100
253 22.4 17.2 25.8
125 10.2 7.4 11.2



#90
Benzo(a)pyrene
Concen: 47.477 ng
RT: 15.486 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:252 Resp: 225949
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 10.1 8.6 12.8

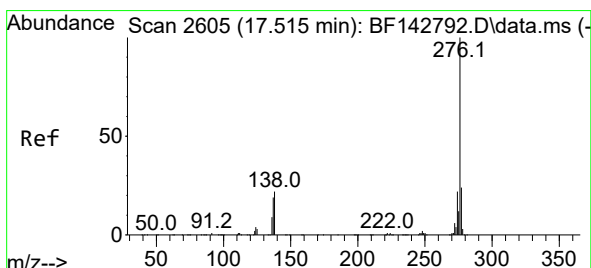
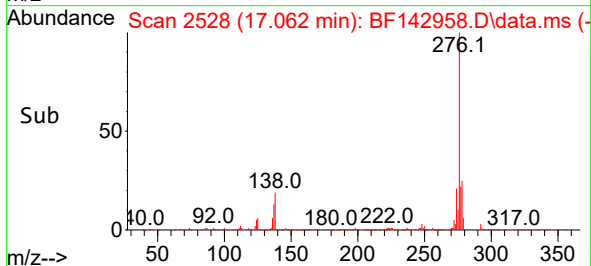
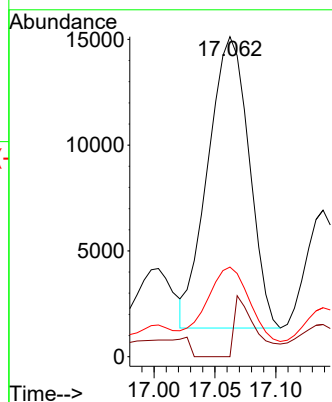
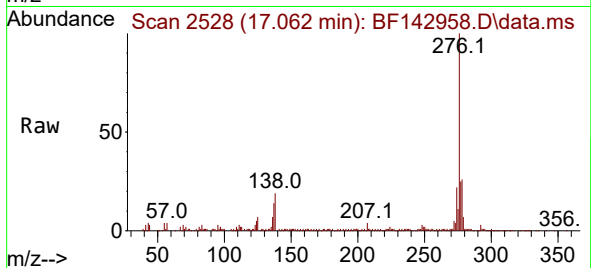




#91
Dibenzo(a,h)anthracene
Concen: 6.149 ng
RT: 17.062 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Instrument :
BNA_F
ClientSampleId :
PL-2-062725

Tgt Ion:278 Resp: 32399
Ion Ratio Lower Upper
278 100
139 0.0 13.5 20.3#
279 28.0 18.8 28.2



#92
Benzo(g,h,i)perylene
Concen: 23.045 ng
RT: 17.515 min Scan# 2605
Delta R.T. 0.000 min
Lab File: BF142958.D
Acq: 01 Jul 2025 19:32

Tgt Ion:276 Resp: 121075
Ion Ratio Lower Upper
276 100
277 24.4 18.8 28.2
138 20.3 17.6 26.4

