

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143340.D
 Acq On : 06 Aug 2025 20:07
 Operator : RC/JU
 Sample : Q2774-13 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 254

Quant Time: Aug 07 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

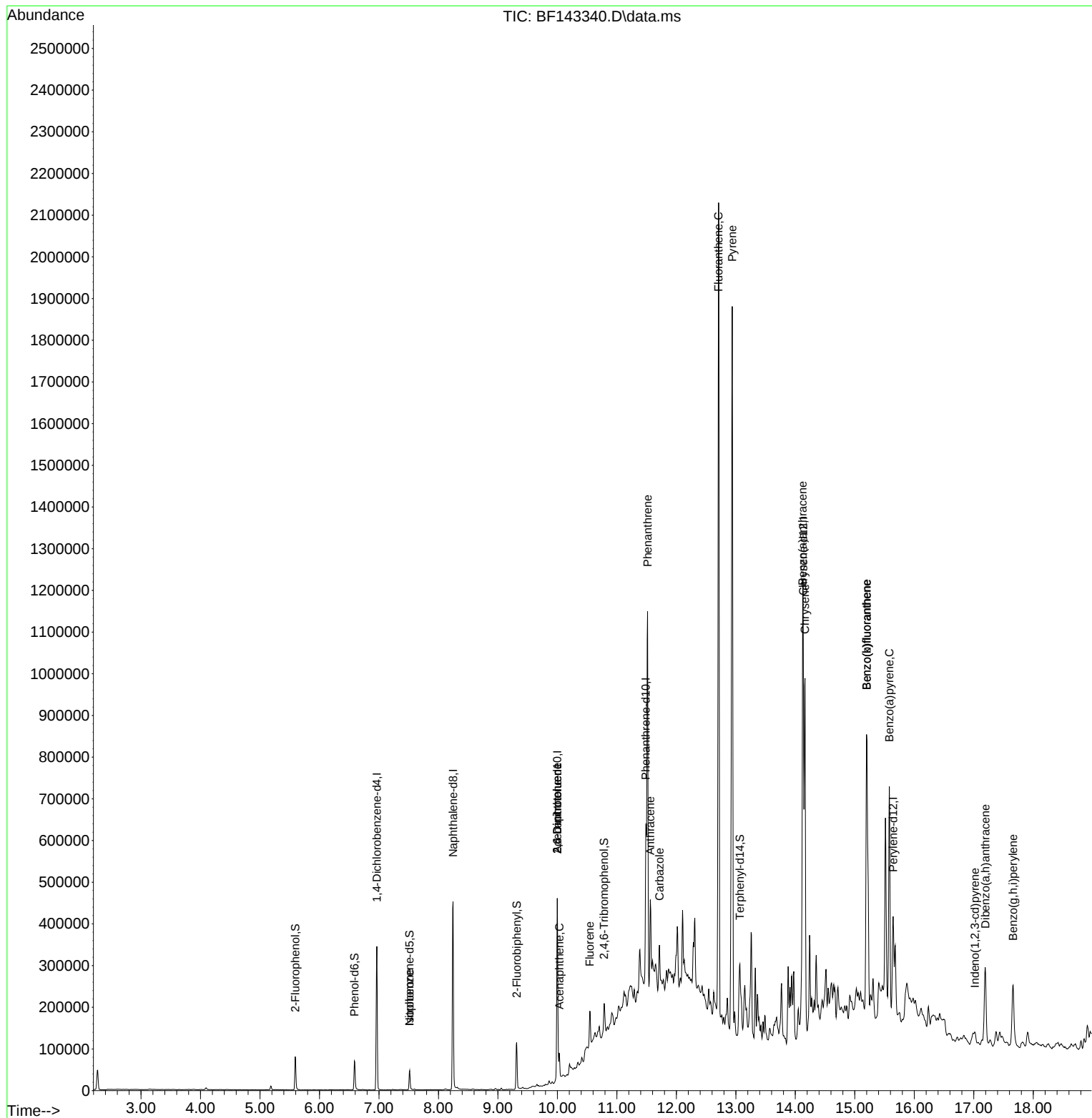
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	71191	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	290264	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	125529	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	204837	20.000	ng	0.00
76) Chrysene-d12	14.133	240	157784	20.000	ng	0.01
86) Perylene-d12	15.645	264	127868	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	30422	6.762	ng	0.00
7) Phenol-d6	6.587	99	35153	6.208	ng	0.00
23) Nitrobenzene-d5	7.516	82	22094	3.794	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	8659	6.677	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	52197	5.687	ng	0.00
79) Terphenyl-d14	13.069	244	60024	5.661	ng	0.00
Target Compounds						
						Qvalue
25) Isophorone	7.516	82	21968	2.137	ng	# 66
51) 2,6-Dinitrotoluene	9.998	165	16712	10.040	ng	# 23
52) Acenaphthene	10.034	154	18763	2.614	ng	94
57) 2,4-Dinitrotoluene	9.998	165	16779	8.035	ng	# 21
58) Fluorene	10.545	166	30703	3.839	ng	98
71) Phenanthrene	11.516	178	488970	44.958	ng	99
72) Anthracene	11.563	178	119059	10.733	ng	99
73) Carbazole	11.716	167	60180	6.213	ng	98
75) Fluoranthene	12.710	202	1176687	117.870	ng	99
78) Pyrene	12.939	202	1049188	77.914	ng	98
81) Benzo(a)anthracene	14.121	228	461371	43.675	ng	98
83) Chrysene	14.163	228	462456	48.691	ng	97
87) Indeno(1,2,3-cd)pyrene	17.021	276	22854	2.535	ng	97
88) Benzo(b)fluoranthene	15.198	252	631370	80.825	ng	97
89) Benzo(k)fluoranthene	15.198	252	631370	90.576	ng	98
90) Benzo(a)pyrene	15.580	252	317565	44.124	ng	99
91) Dibenzo(a,h)anthracene	17.198	278	30048	4.094	ng	95
92) Benzo(g,h,i)perylene	17.662	276	135518	19.090	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
Data File : BF143340.D
Acq On : 06 Aug 2025 20:07
Operator : RC/JU
Sample : Q2774-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
254

Quant Time: Aug 07 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration

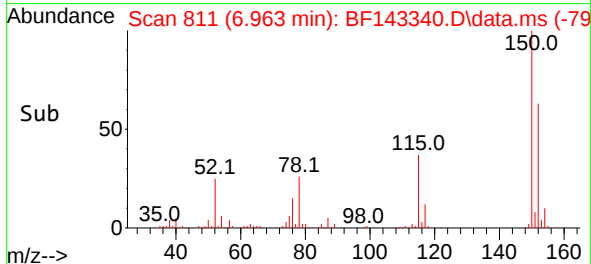
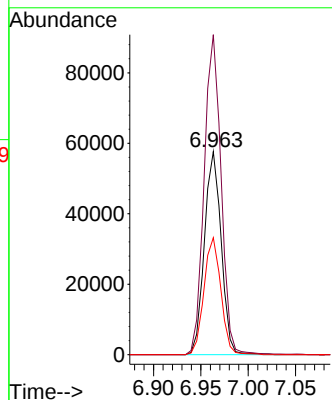
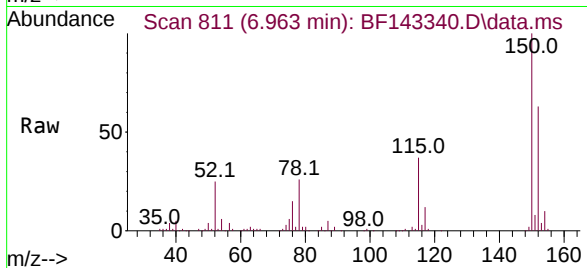




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

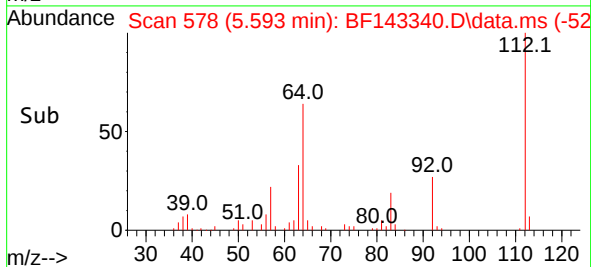
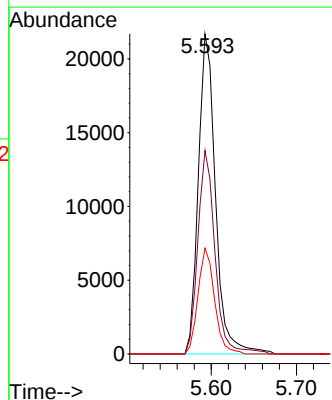
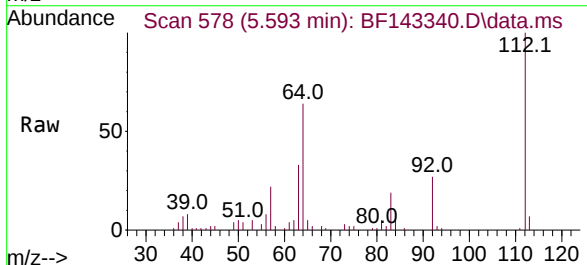
Instrument :
BNA_F
ClientSampleId :
254

Tgt Ion:152 Resp: 71191
Ion Ratio Lower Upper
152 100
150 157.5 128.2 192.4
115 57.6 47.9 71.9



#5
2-Fluorophenol
Concen: 6.762 ng
RT: 5.593 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:112 Resp: 30422
Ion Ratio Lower Upper
112 100
64 63.6 53.1 79.7
63 33.0 26.6 40.0

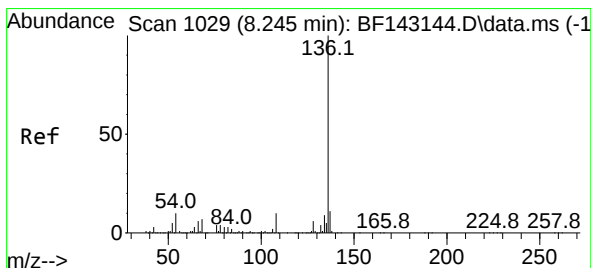
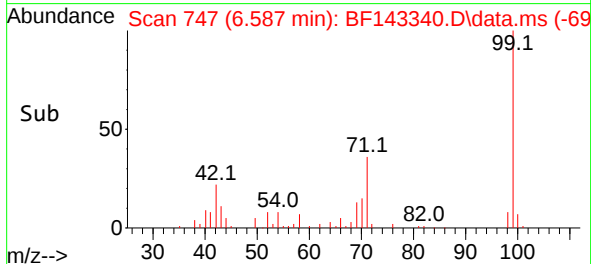
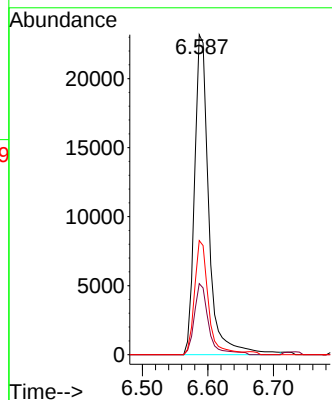
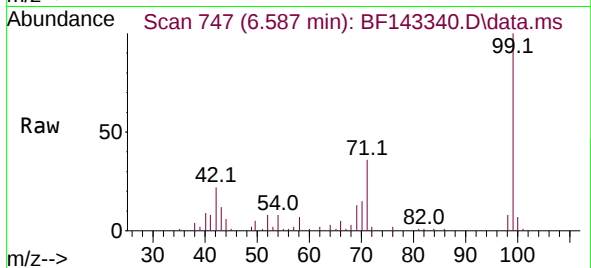




#7
Phenol-d6
Concen: 6.208 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

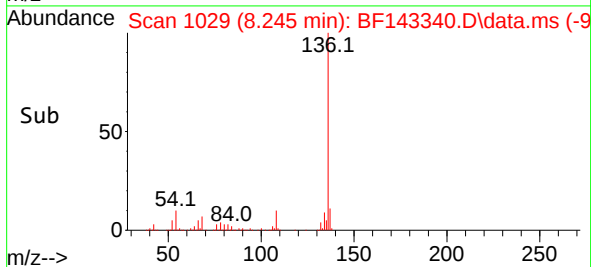
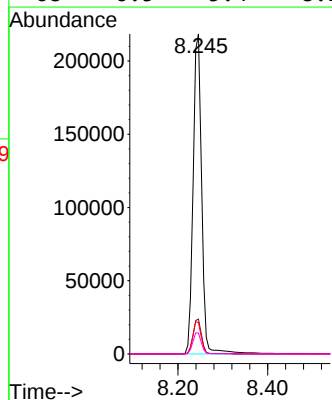
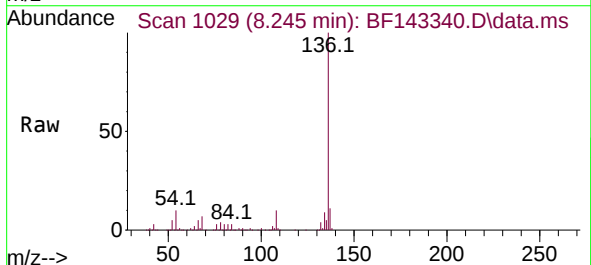
Instrument :
BNA_F
ClientSampleId :
254

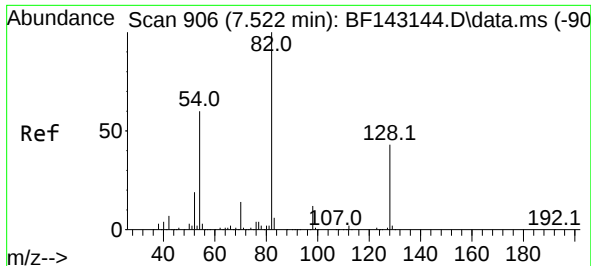
Tgt Ion: 99 Resp: 35153
Ion Ratio Lower Upper
99 100
42 22.2 17.0 25.6
71 35.7 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion: 136 Resp: 290264
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.8 8.2 12.2
68 6.5 5.4 8.2





#23

Nitrobenzene-d5

Concen: 3.794 ng

RT: 7.516 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

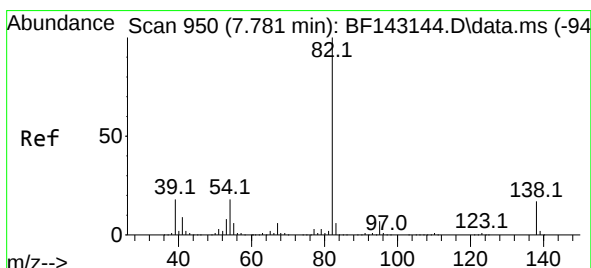
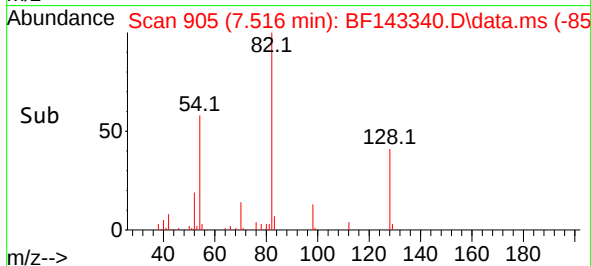
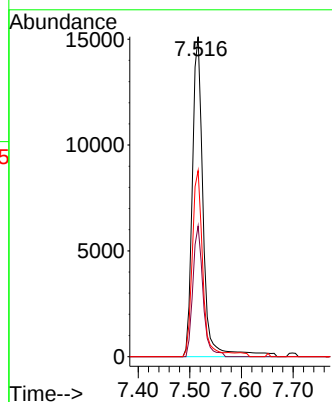
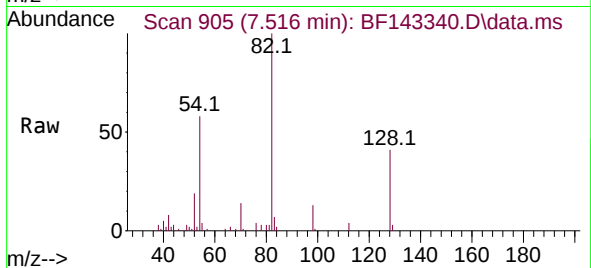
Tgt Ion: 82 Resp: 22094

Ion Ratio Lower Upper

82 100

128 40.9 33.6 50.4

54 58.2 47.1 70.7



#25

Isophorone

Concen: 2.137 ng

RT: 7.516 min Scan# 905

Delta R.T. -0.265 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

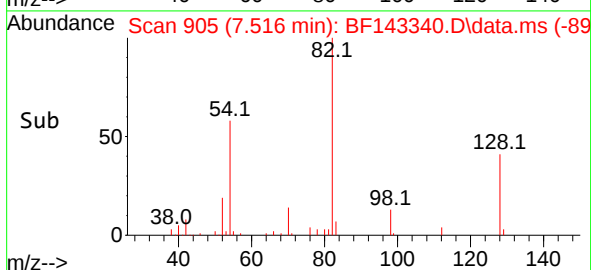
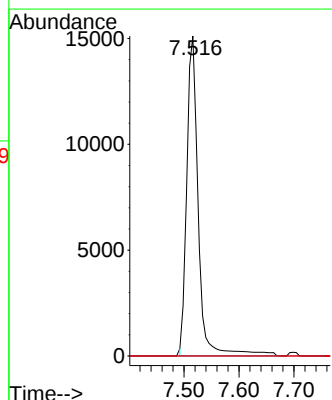
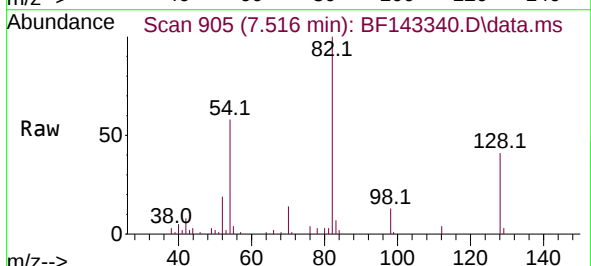
Tgt Ion: 82 Resp: 21968

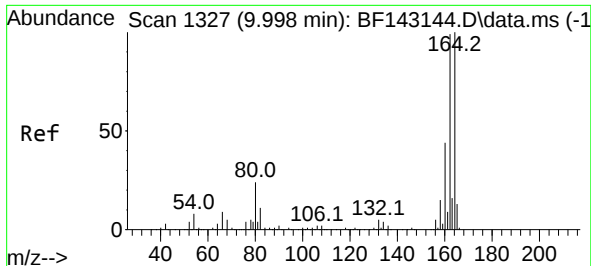
Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

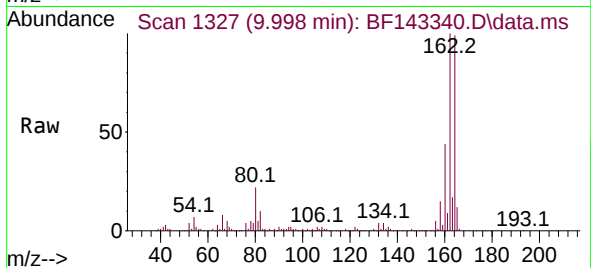
138 0.0 13.8 20.8#



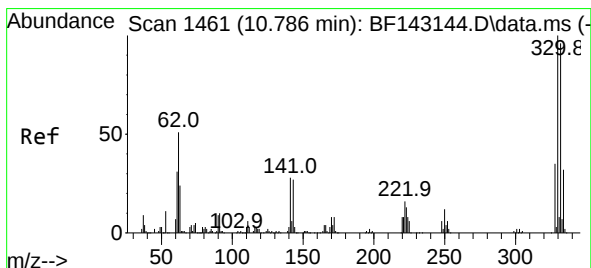
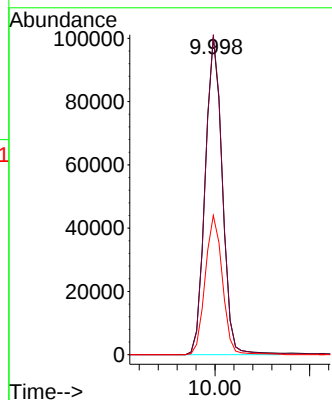
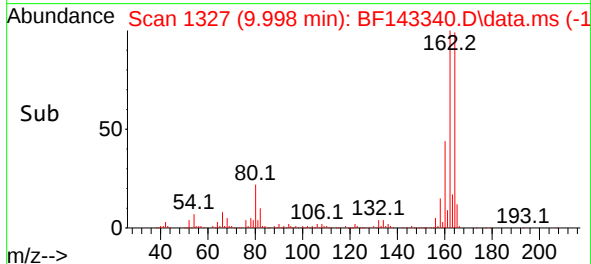


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

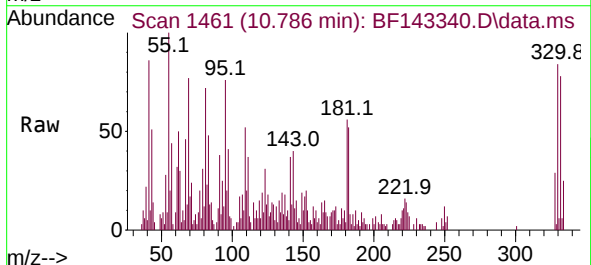
Instrument :
BNA_F
ClientSampleId :
254



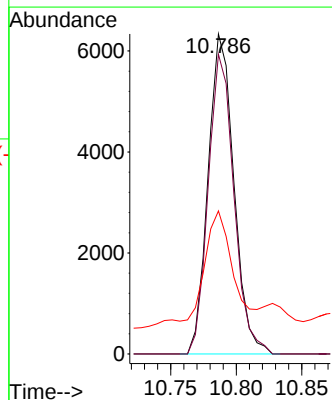
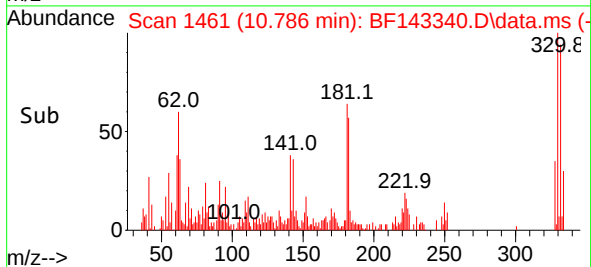
Tgt Ion:164 Resp: 125529
Ion Ratio Lower Upper
164 100
162 100.8 79.0 118.6
160 43.9 35.1 52.7

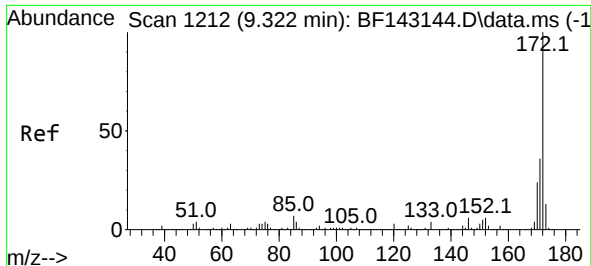


#42
2,4,6-Tribromophenol
Concen: 6.677 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07



Tgt Ion:330 Resp: 8659
Ion Ratio Lower Upper
330 100
332 93.4 76.7 115.1
141 43.5 23.3 34.9#





#45

2-Fluorobiphenyl

Concen: 5.687 ng

RT: 9.316 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

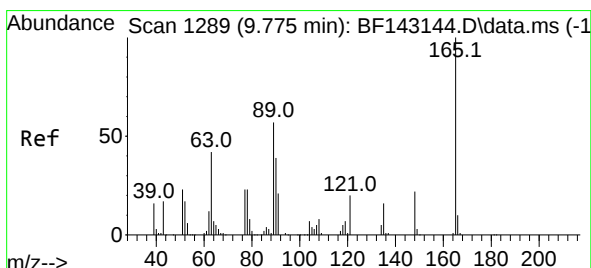
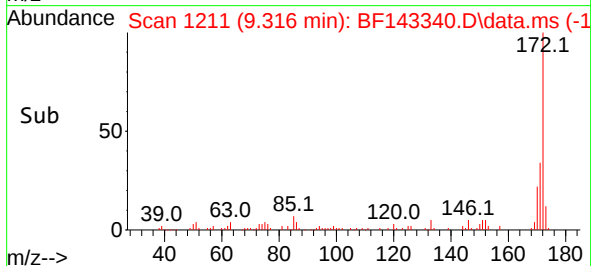
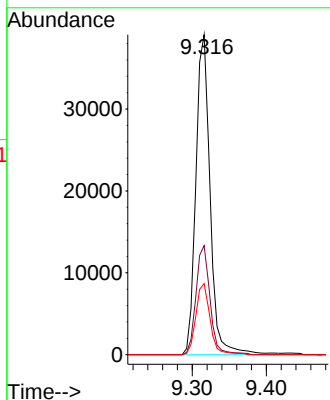
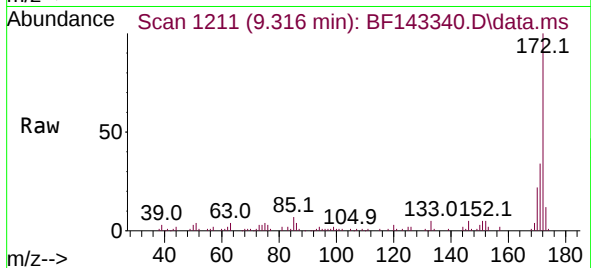
Tgt Ion:172 Resp: 52197

Ion Ratio Lower Upper

172 100

171 34.1 28.6 42.8

170 22.2 18.8 28.2



#51

2,6-Dinitrotoluene

Concen: 10.040 ng

RT: 9.998 min Scan# 1327

Delta R.T. 0.224 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

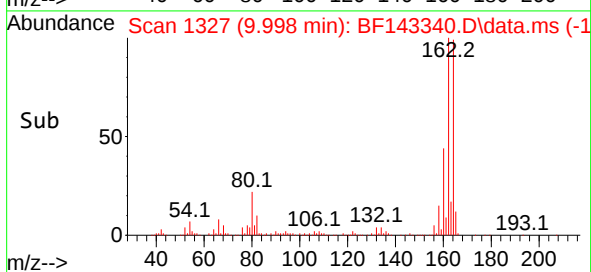
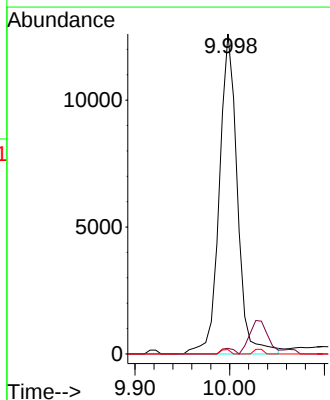
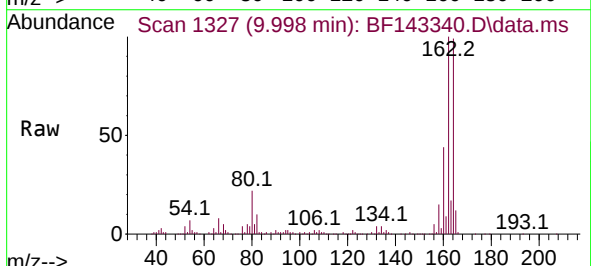
Tgt Ion:165 Resp: 16712

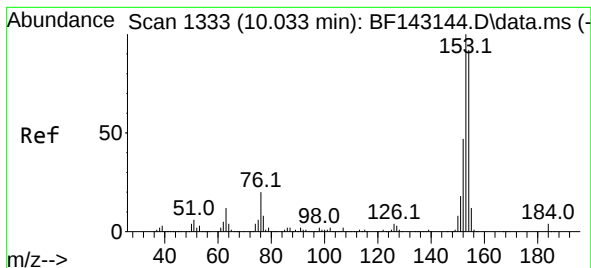
Ion Ratio Lower Upper

165 100

63 1.8 49.4 74.2#

89 1.4 46.2 69.2#





#52

Acenaphthene

Concen: 2.614 ng

RT: 10.034 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

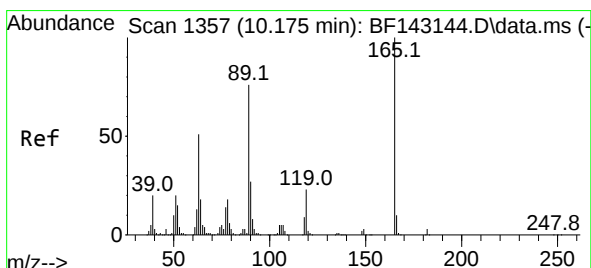
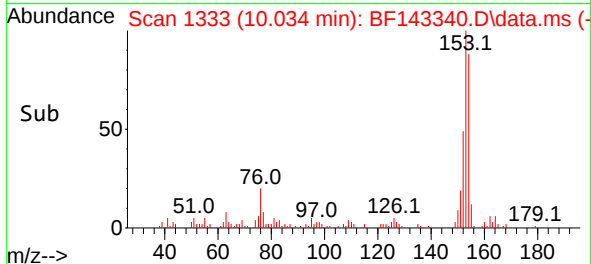
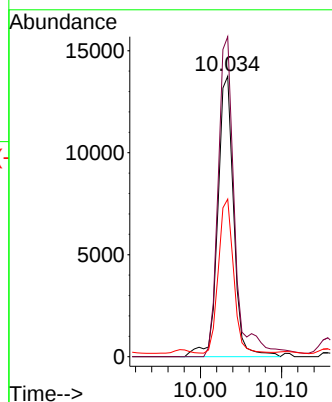
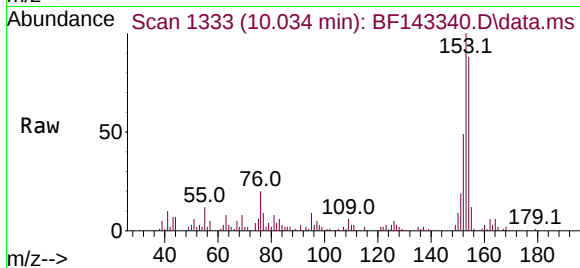
Tgt Ion:154 Resp: 18763

Ion Ratio Lower Upper

154 100

153 114.1 86.6 129.8

152 56.2 40.4 60.6



#57

2,4-Dinitrotoluene

Concen: 8.035 ng

RT: 9.998 min Scan# 1327

Delta R.T. -0.176 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Tgt Ion:165 Resp: 16779

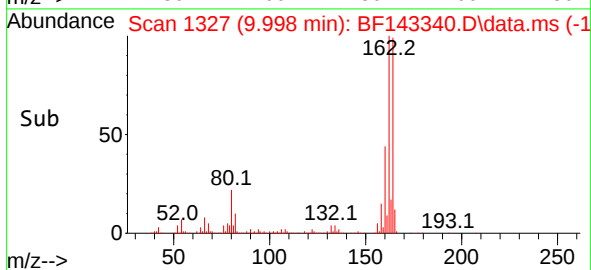
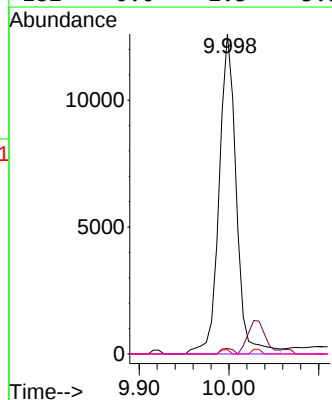
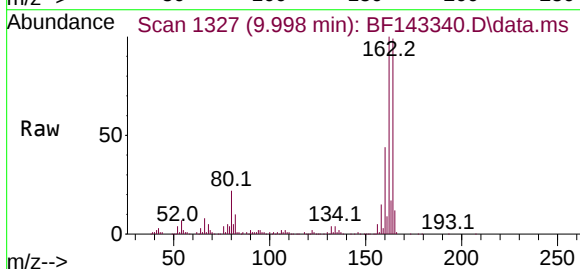
Ion Ratio Lower Upper

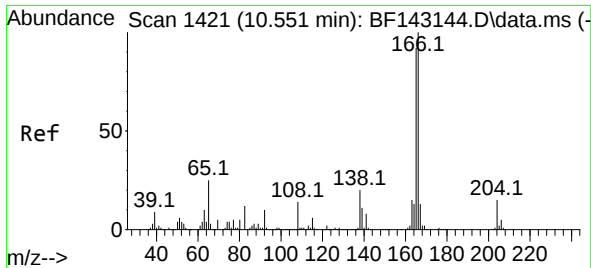
165 100

63 1.8 41.0 61.4#

89 1.4 61.1 91.7#

182 0.0 2.3 3.5#

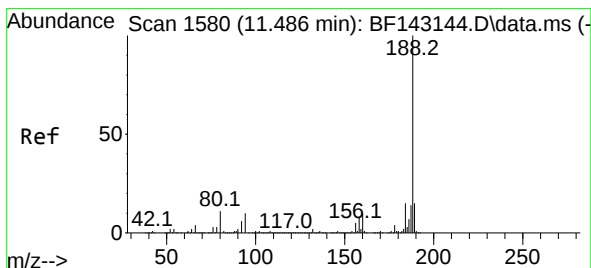
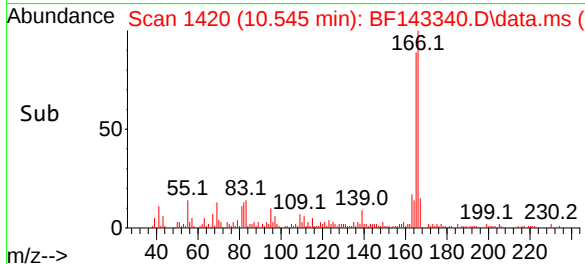
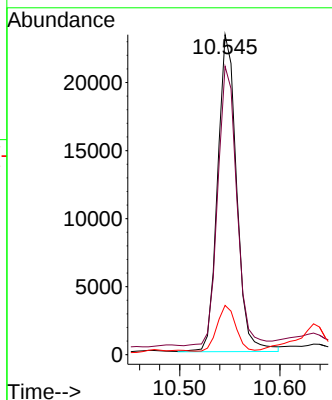
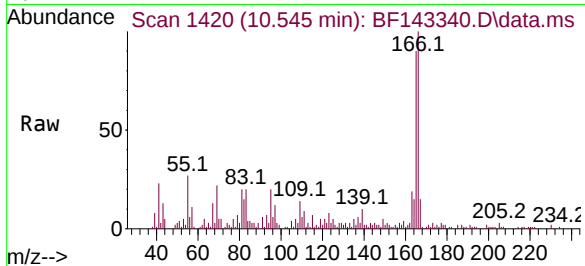




#58
Fluorene
Concen: 3.839 ng
RT: 10.545 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

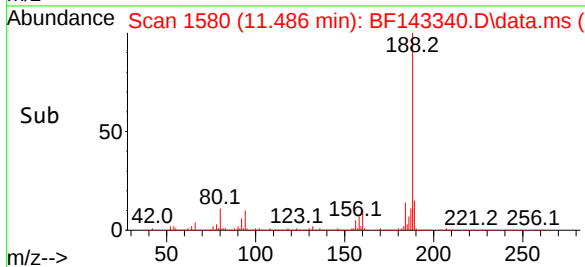
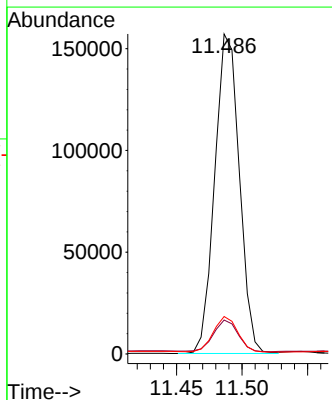
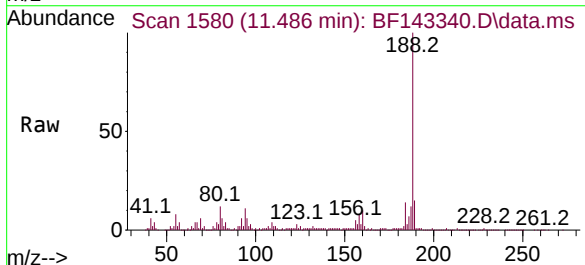
Instrument :
BNA_F
ClientSampleId :
254

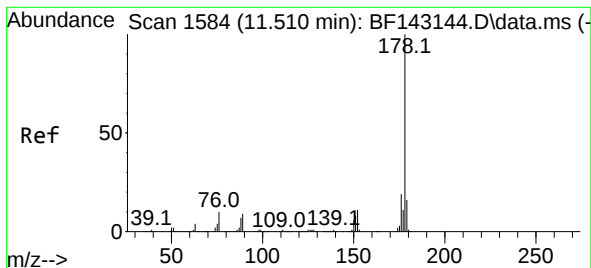
Tgt Ion:166 Resp: 30703
Ion Ratio Lower Upper
166 100
165 90.1 73.7 110.5
167 15.4 10.6 16.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:188 Resp: 204837
Ion Ratio Lower Upper
188 100
94 10.6 8.3 12.5
80 11.7 9.0 13.6





#71

Phenanthrene

Concen: 44.958 ng

RT: 11.516 min Scan# 1584

Delta R.T. 0.006 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

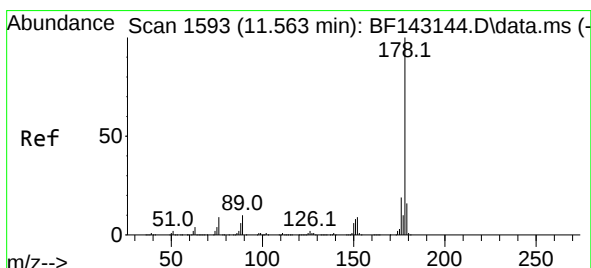
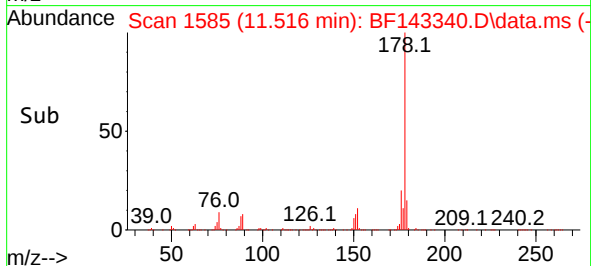
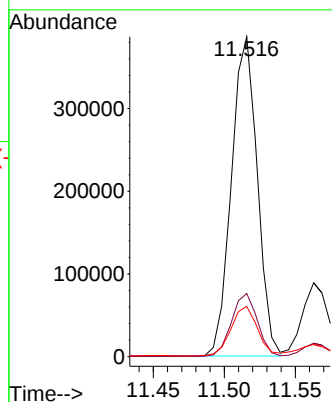
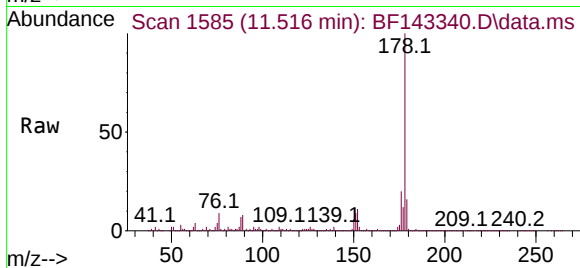
Tgt Ion:178 Resp: 488970

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

179 15.7 12.5 18.7



#72

Anthracene

Concen: 10.733 ng

RT: 11.563 min Scan# 1593

Delta R.T. 0.000 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

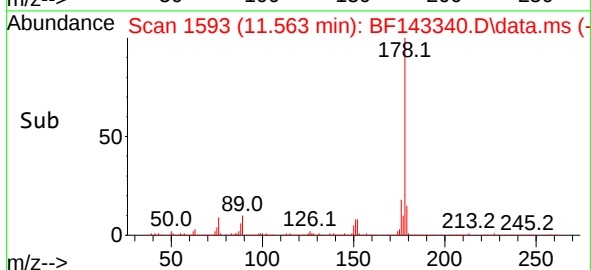
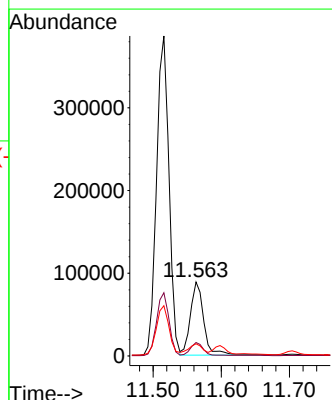
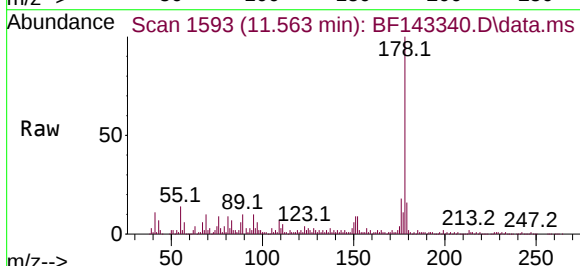
Tgt Ion:178 Resp: 119059

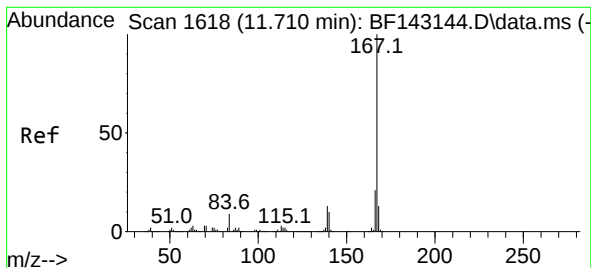
Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.4

179 16.4 12.5 18.7





#73

Carbazole

Concen: 6.213 ng

RT: 11.716 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

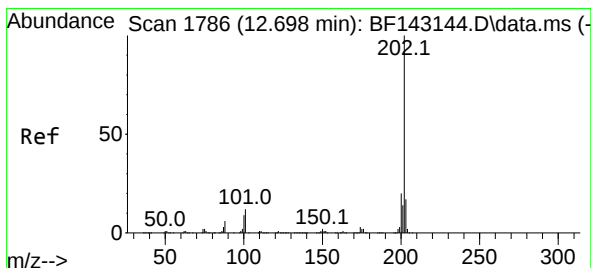
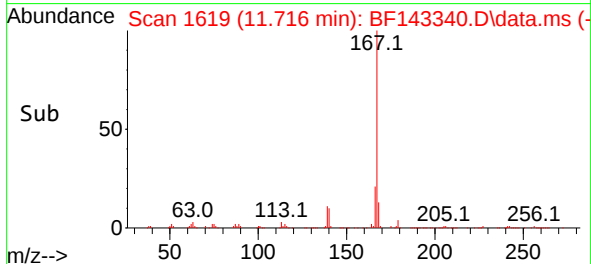
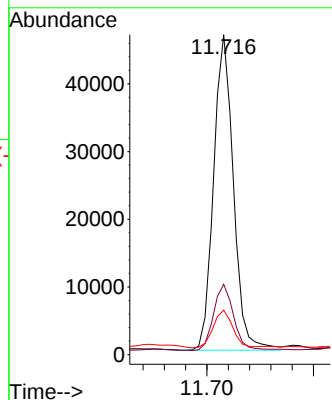
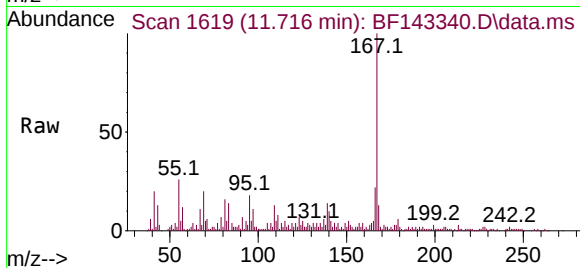
Tgt Ion:167 Resp: 60180

Ion Ratio Lower Upper

167 100

166 22.0 17.0 25.6

139 13.9 10.0 15.0



#75

Fluoranthene

Concen: 117.870 ng

RT: 12.710 min Scan# 1788

Delta R.T. 0.012 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

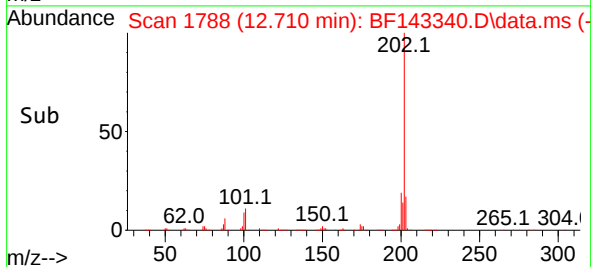
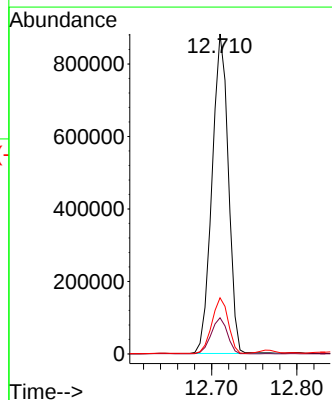
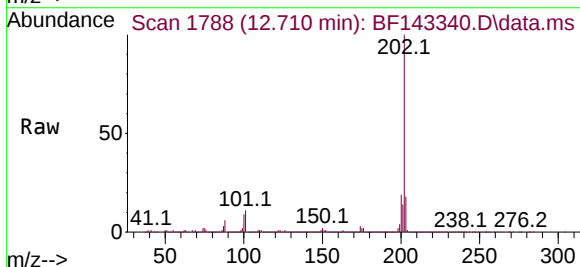
Tgt Ion:202 Resp: 1176687

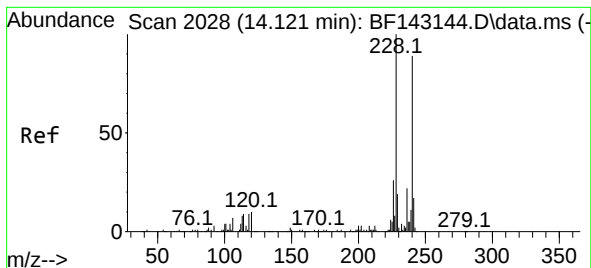
Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.7

203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.133 min Scan# 2028

Delta R.T. 0.012 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

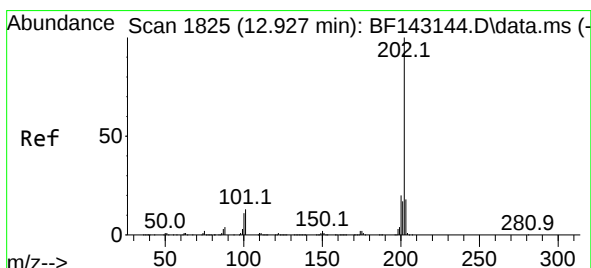
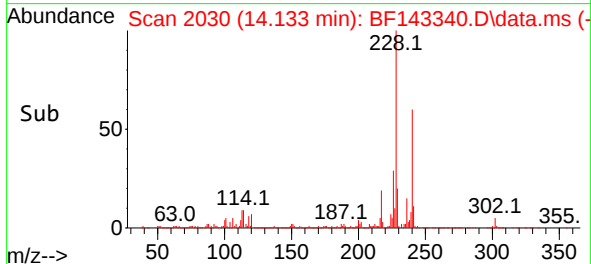
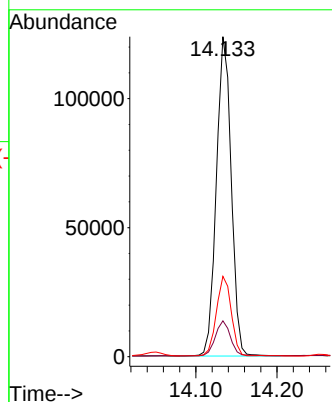
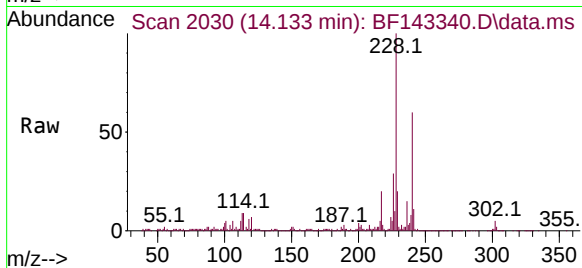
Tgt Ion:240 Resp: 157784

Ion Ratio Lower Upper

240 100

120 11.2 9.4 14.2

236 25.1 20.2 30.4



#78

Pyrene

Concen: 77.914 ng

RT: 12.939 min Scan# 1827

Delta R.T. 0.012 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

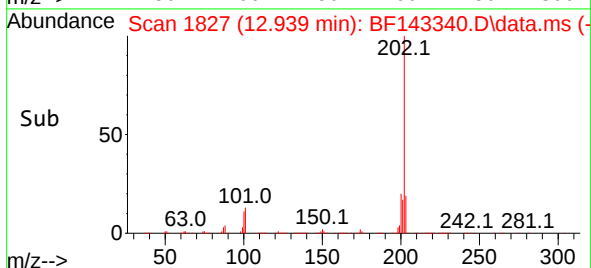
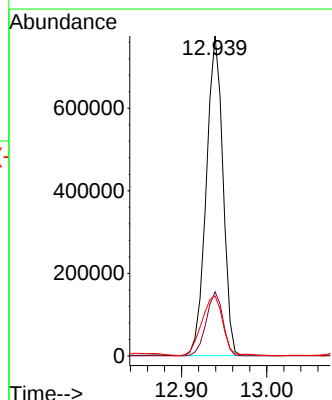
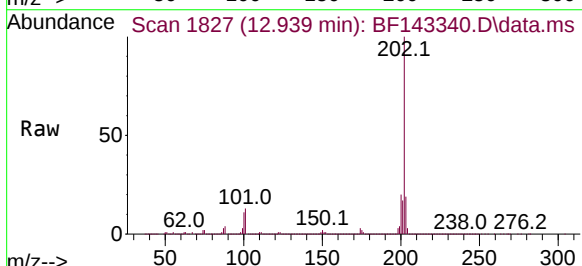
Tgt Ion:202 Resp: 1049188

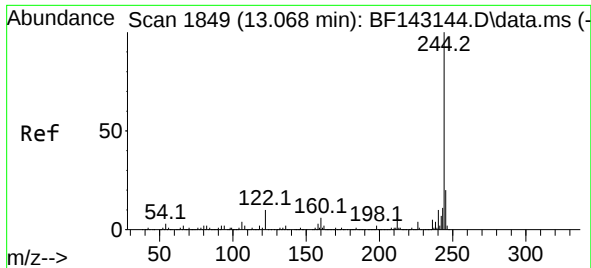
Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

203 18.8 14.2 21.2

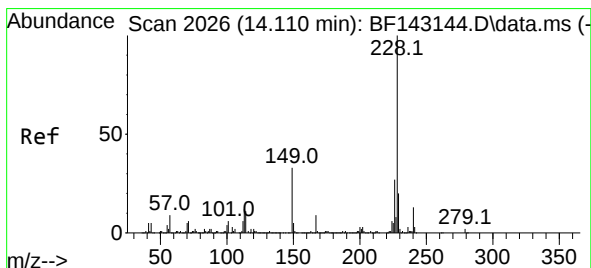
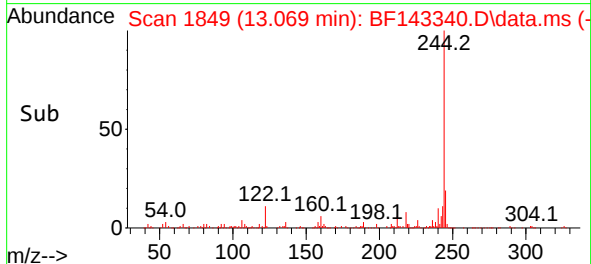
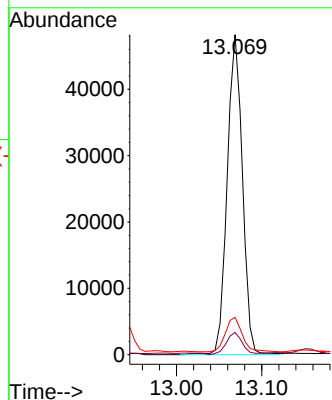
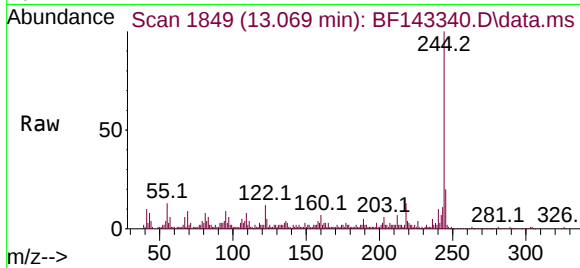




#79
 Terphenyl-d14
 Concen: 5.661 ng
 RT: 13.069 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF143340.D
 Acq: 06 Aug 2025 20:07

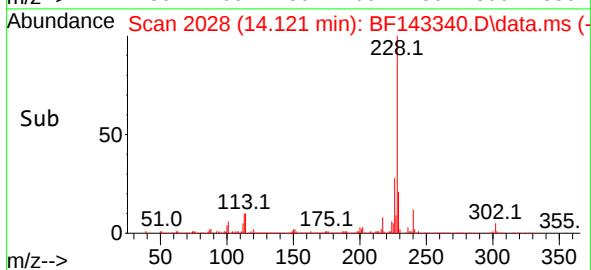
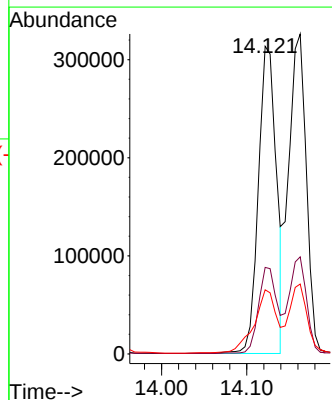
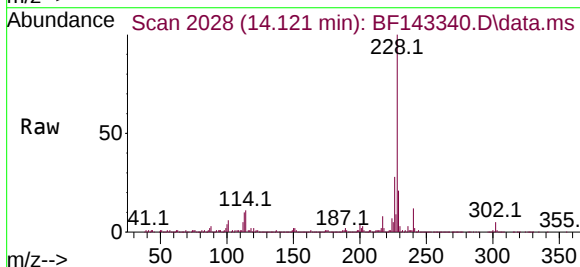
Instrument :
 BNA_F
 ClientSampleId :
 254

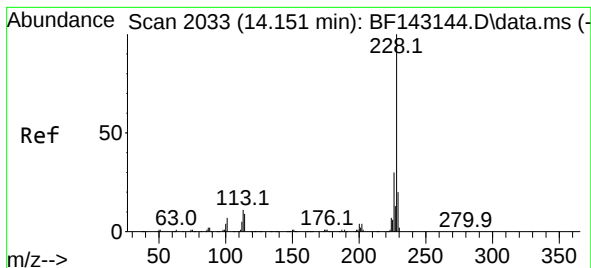
Tgt Ion:244 Resp: 60024
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.2 7.8
 122 11.7 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 43.675 ng
 RT: 14.121 min Scan# 2028
 Delta R.T. 0.012 min
 Lab File: BF143340.D
 Acq: 06 Aug 2025 20:07

Tgt Ion:228 Resp: 461371
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.7 32.5
 229 20.8 15.8 23.6





#83

Chrysene

Concen: 48.691 ng

RT: 14.163 min Scan# 2033

Delta R.T. 0.012 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

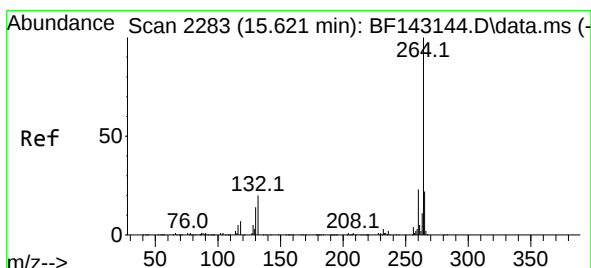
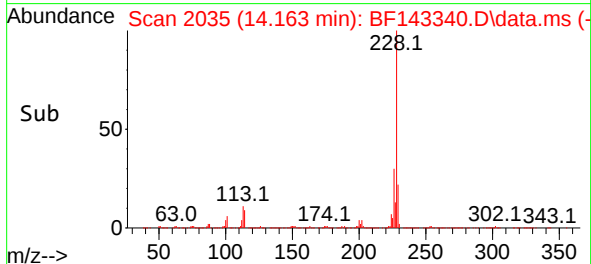
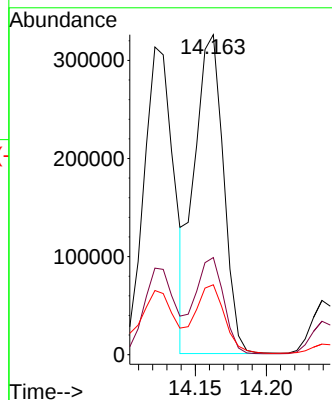
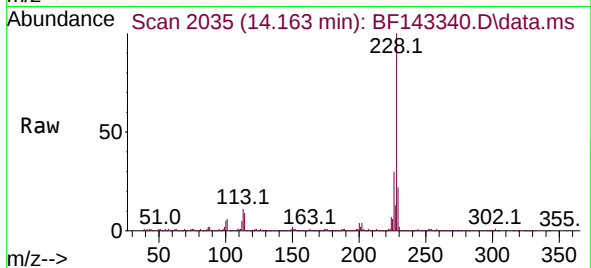
Tgt Ion:228 Resp: 462456

Ion Ratio Lower Upper

228 100

226 30.3 23.8 35.8

229 21.8 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.645 min Scan# 2287

Delta R.T. 0.024 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

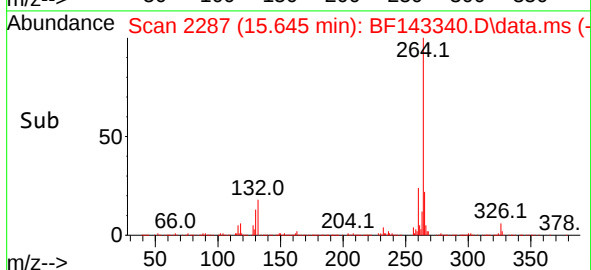
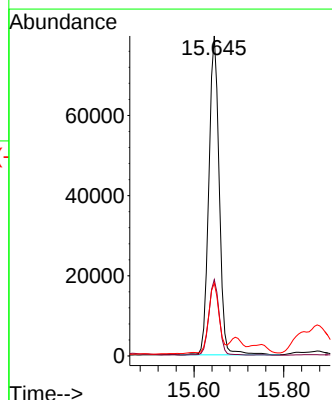
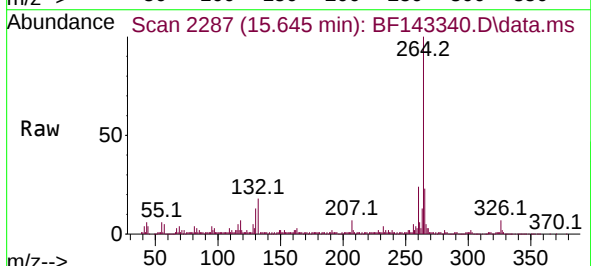
Tgt Ion:264 Resp: 127868

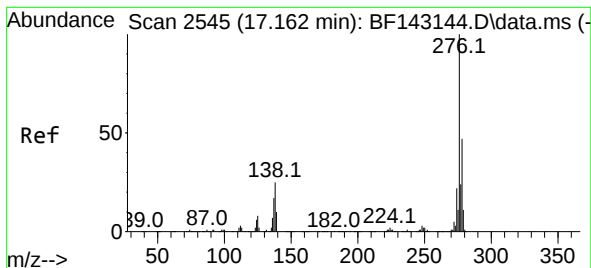
Ion Ratio Lower Upper

264 100

260 23.8 18.5 27.7

265 22.8 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.535 ng

RT: 17.021 min Scan# 2111

Delta R.T. -0.141 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

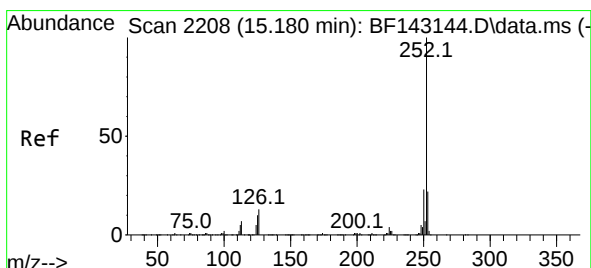
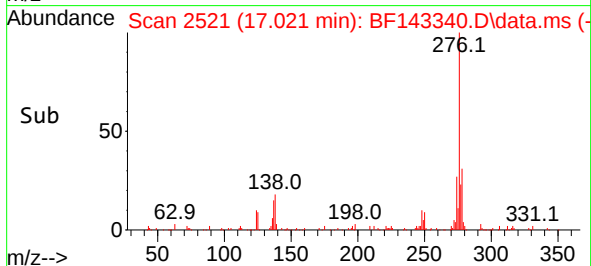
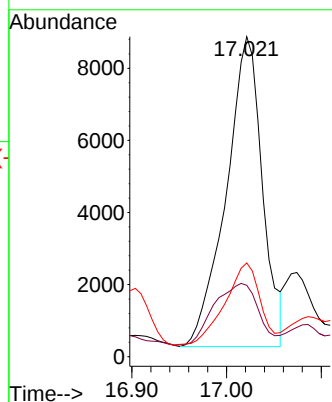
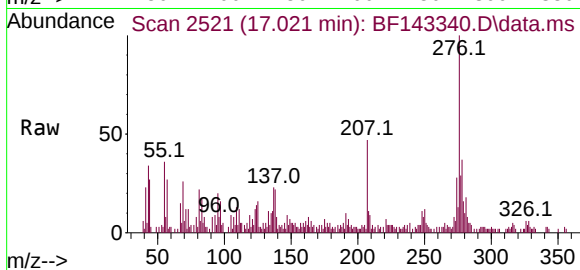
Tgt Ion:276 Resp: 22854

Ion Ratio Lower Upper

276 100

138 24.3 21.8 32.6

277 25.4 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 80.825 ng

RT: 15.198 min Scan# 2211

Delta R.T. 0.018 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

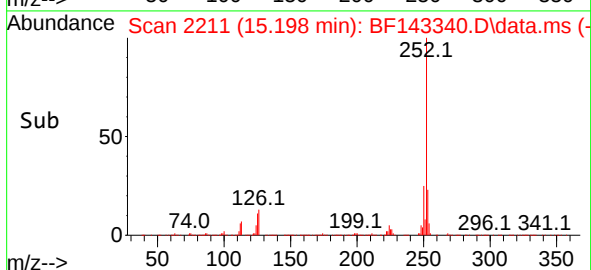
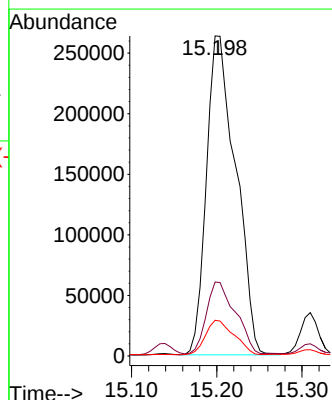
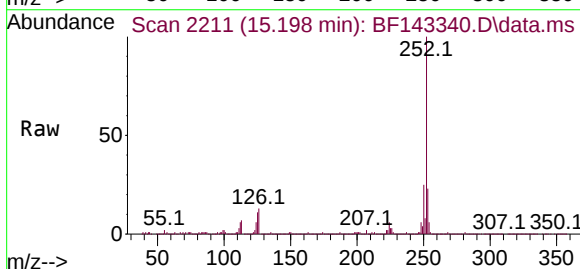
Tgt Ion:252 Resp: 631370

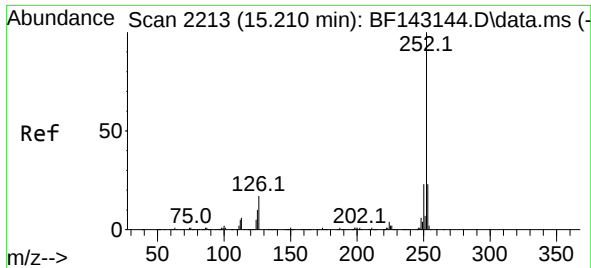
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 11.2 8.0 12.0

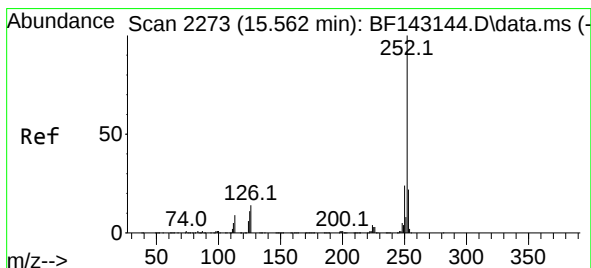
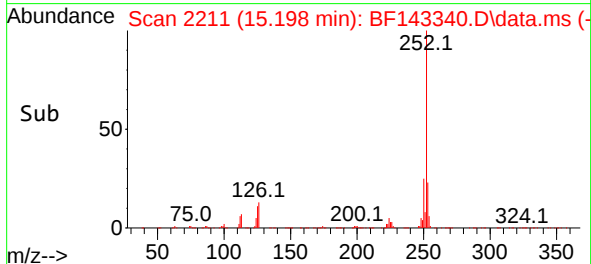
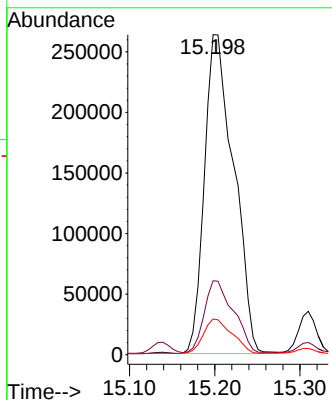
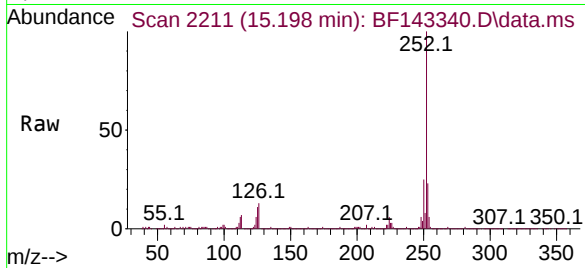




#89
Benzo(k)fluoranthene
Concen: 90.576 ng
RT: 15.198 min Scan# 211
Delta R.T. -0.012 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

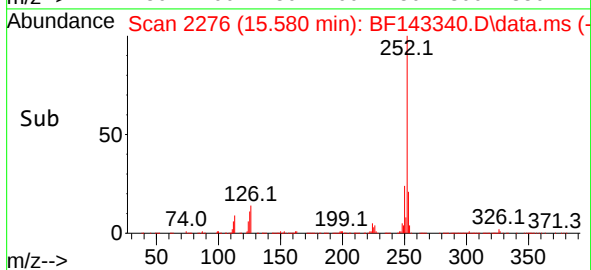
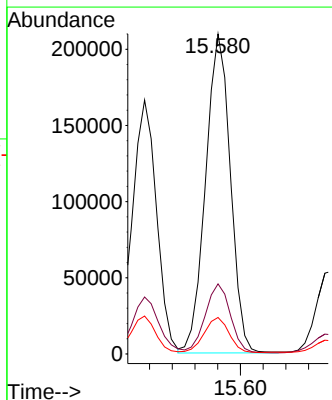
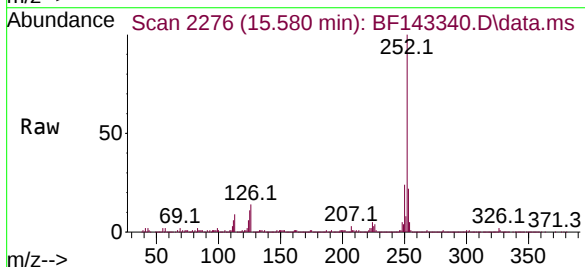
Instrument :
BNA_F
ClientSampleId :
254

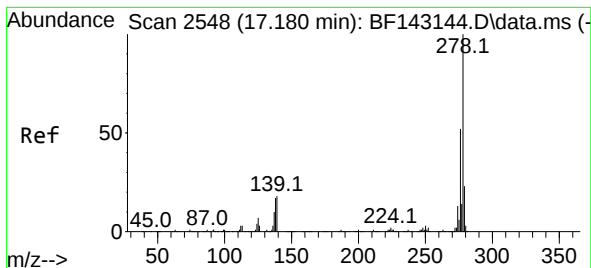
Tgt Ion:252 Resp: 631370
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 11.2 8.1 12.1



#90
Benzo(a)pyrene
Concen: 44.124 ng
RT: 15.580 min Scan# 2276
Delta R.T. 0.018 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:252 Resp: 317565
Ion Ratio Lower Upper
252 100
253 21.9 17.3 25.9
125 11.4 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 4.094 ng

RT: 17.198 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

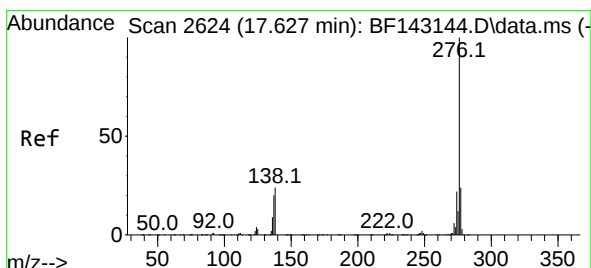
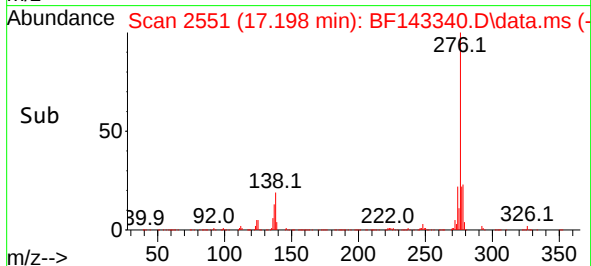
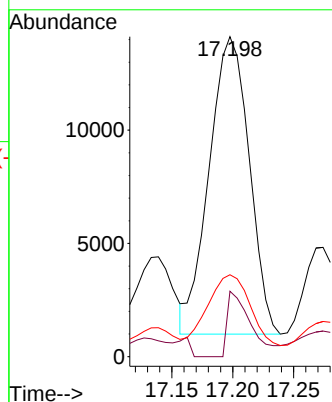
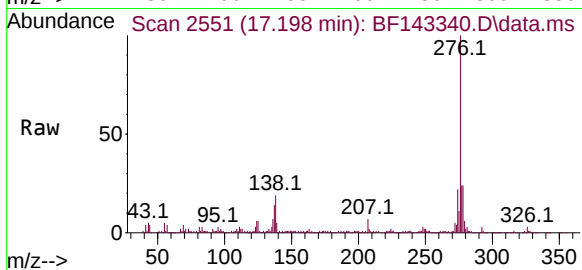
Tgt Ion:278 Resp: 30048

Ion Ratio Lower Upper

278 100

139 20.4 14.1 21.1

279 25.6 18.6 28.0



#92

Benzo(g,h,i)perylene

Concen: 19.090 ng

RT: 17.662 min Scan# 2630

Delta R.T. 0.035 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Tgt Ion:276 Resp: 135518

Ion Ratio Lower Upper

276 100

277 23.8 19.1 28.7

138 21.5 18.9 28.3

