

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143336.D
 Acq On : 06 Aug 2025 18:11
 Operator : RC/JU
 Sample : Q2780-05 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Quant Time: Aug 06 18:28:05 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)

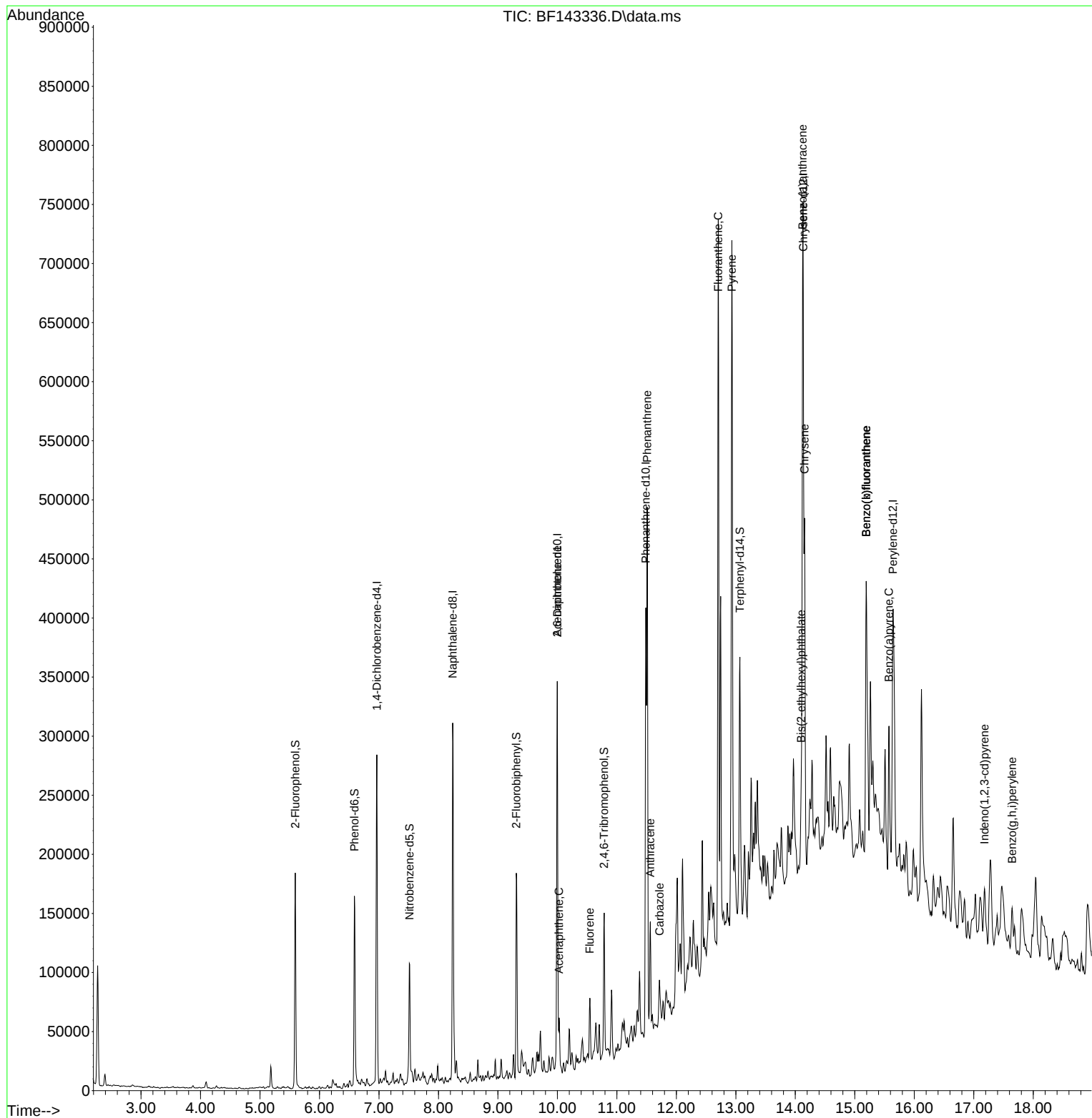
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	57393	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	194274	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	93202	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	181010	20.000	ng	0.00
76) Chrysene-d12	14.133	240	171328	20.000	ng	0.01
86) Perylene-d12	15.639	264	118704	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.592	112	66021	18.204	ng	0.00
7) Phenol-d6	6.587	99	78341	17.161	ng	0.00
23) Nitrobenzene-d5	7.516	82	44449	11.405	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	18406	19.117	ng	0.00
45) 2-Fluorobiphenyl	9.310	172	80221	11.771	ng	-0.01
79) Terphenyl-d14	13.068	244	101478	8.814	ng	0.00
Target Compounds						
						Qvalue
51) 2,6-Dinitrotoluene	9.998	165	12784	10.344	ng	# 23
52) Acenaphthene	10.027	154	12568	2.358	ng	97
58) Fluorene	10.545	166	19474	3.279	ng	99
71) Phenanthrene	11.510	178	227442	23.665	ng	99
72) Anthracene	11.563	178	55400	5.652	ng	100
73) Carbazole	11.716	167	18247	2.132	ng	98
75) Fluoranthene	12.704	202	335196	37.997	ng	100
78) Pyrene	12.933	202	317142	21.689	ng	99
81) Benzo(a)anthracene	14.121	228	163633	14.266	ng	98
83) Chrysene	14.157	228	136845	13.269	ng	97
84) Bis(2-ethylhexyl)phtha...	14.098	149	19170	2.829	ng	94
87) Indeno(1,2,3-cd)pyrene	17.180	276	36310	4.338	ng	95
88) Benzo(b)fluoranthene	15.192	252	173595	23.938	ng	# 96
89) Benzo(k)fluoranthene	15.192	252	173595	26.826	ng	# 96
90) Benzo(a)pyrene	15.574	252	77699	11.629	ng	96
92) Benzo(g,h,i)perylene	17.645	276	33886	5.142	ng	97

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

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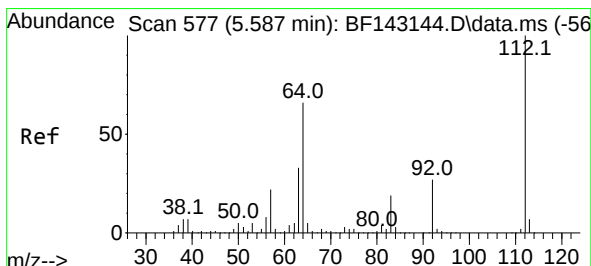
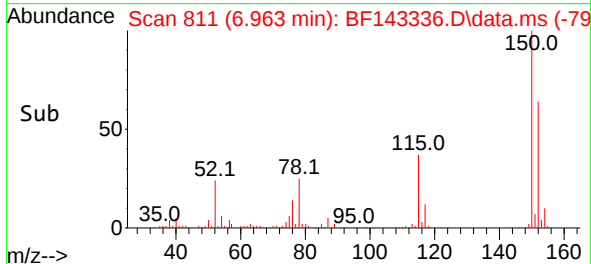
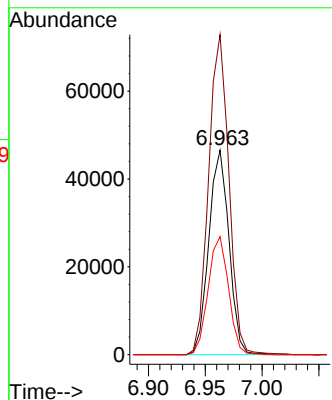
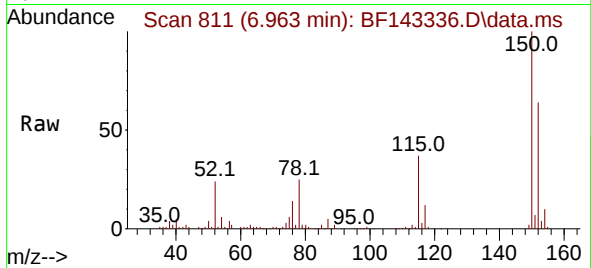




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

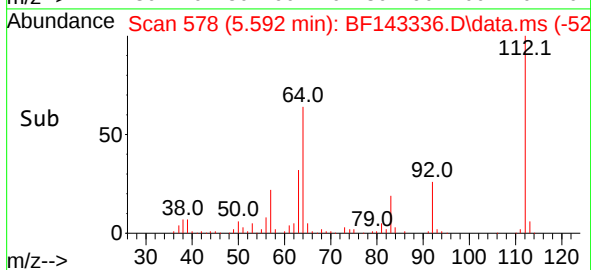
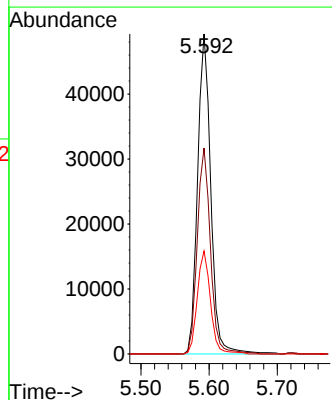
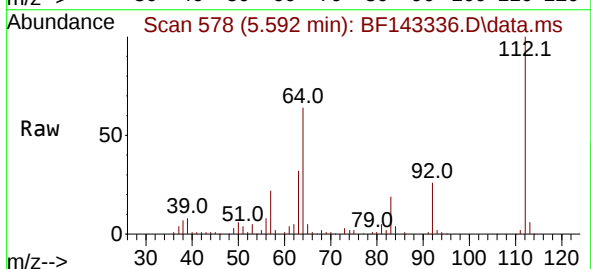
Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion:152 Resp: 57393
Ion Ratio Lower Upper
152 100
150 156.5 128.2 192.4
115 57.8 47.9 71.9



#5
2-Fluorophenol
Concen: 18.204 ng
RT: 5.592 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

Tgt Ion:112 Resp: 66021
Ion Ratio Lower Upper
112 100
64 64.3 53.1 79.7
63 32.2 26.6 40.0

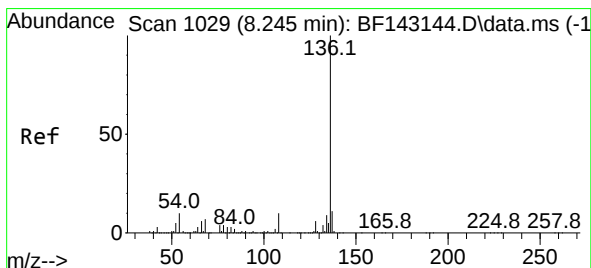
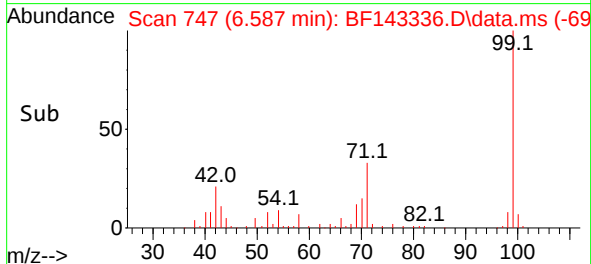
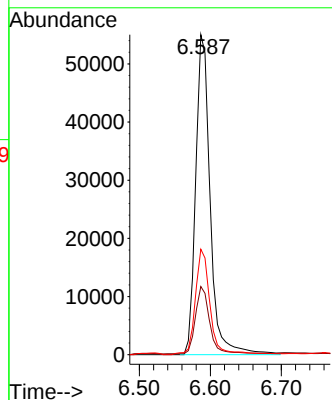
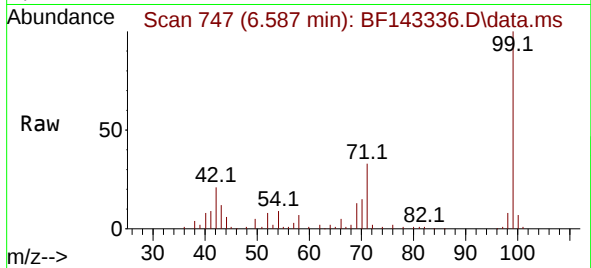




#7
Phenol-d6
Concen: 17.161 ng
RT: 6.587 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

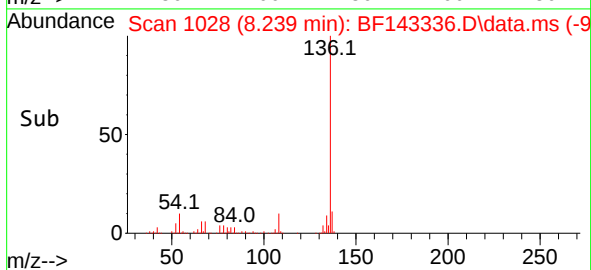
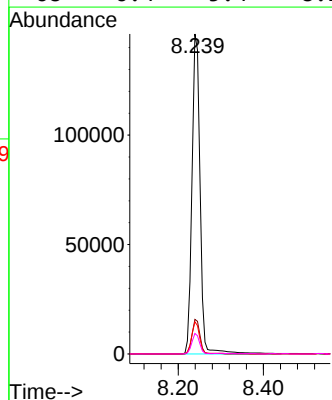
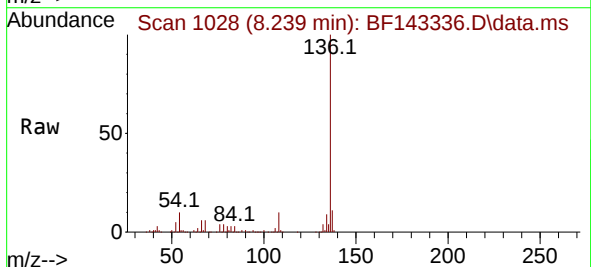
Instrument :
BNA_F
ClientSampleId :
TP-1

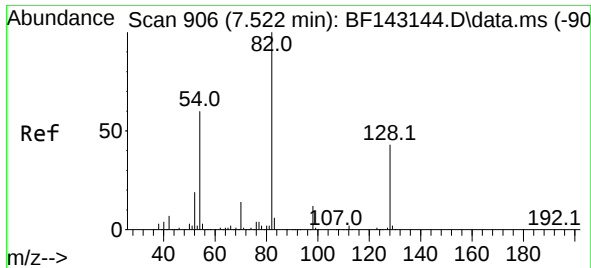
Tgt Ion: 99 Resp: 78341
Ion Ratio Lower Upper
99 100
42 21.3 17.0 25.6
71 33.0 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

Tgt Ion: 136 Resp: 194274
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 10.0 8.2 12.2
68 6.4 5.4 8.2

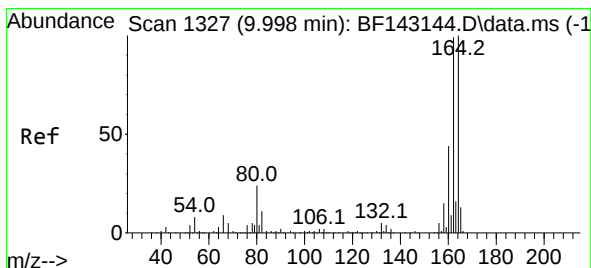
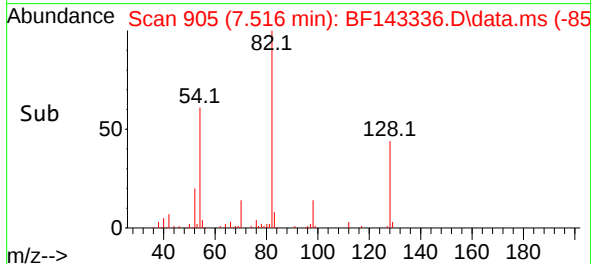
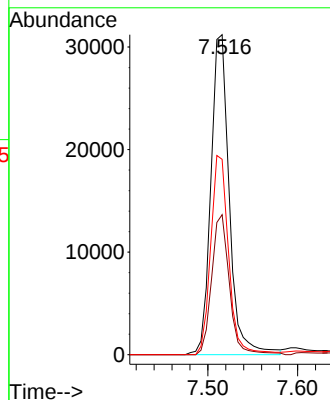
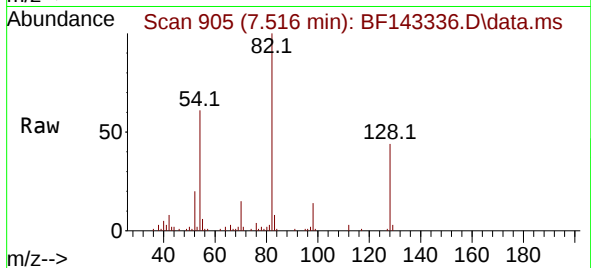




#23
Nitrobenzene-d5
Concen: 11.405 ng
RT: 7.516 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

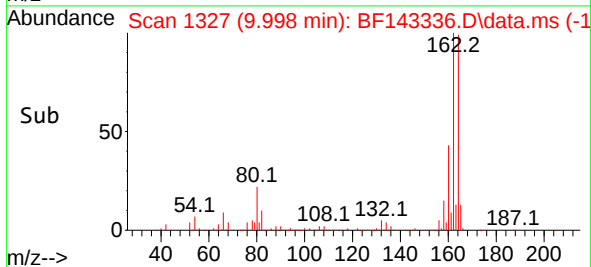
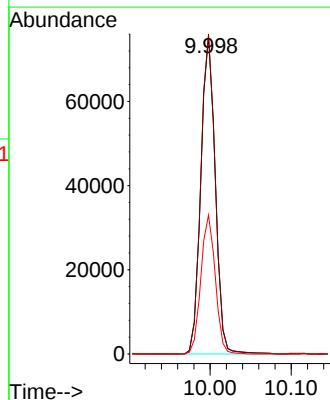
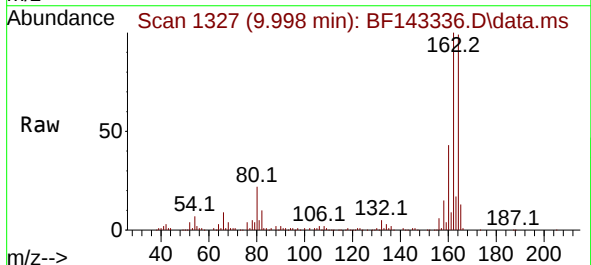
Instrument :
BNA_F
ClientSampleId :
TP-1

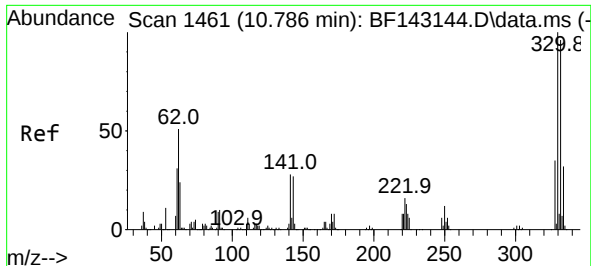
Tgt Ion: 82 Resp: 44449
Ion Ratio Lower Upper
82 100
128 43.8 33.6 50.4
54 61.1 47.1 70.7



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

Tgt Ion:164 Resp: 93202
Ion Ratio Lower Upper
164 100
162 100.7 79.0 118.6
160 43.7 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 19.117 ng

RT: 10.786 min Scan# 1461

Delta R.T. -0.000 min

Lab File: BF143336.D

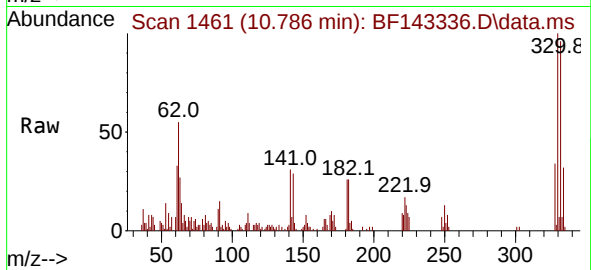
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Instrument :

BNA_F

ClientSampleId :

TP-1



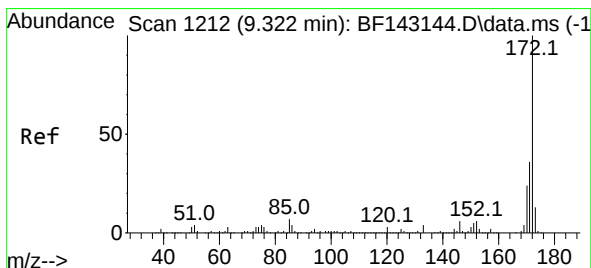
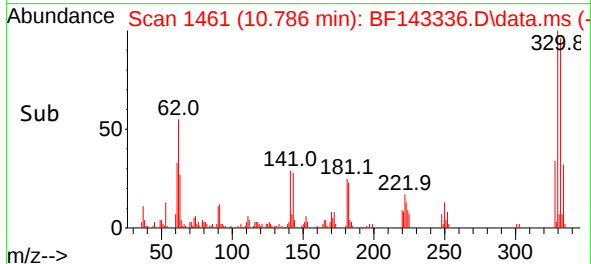
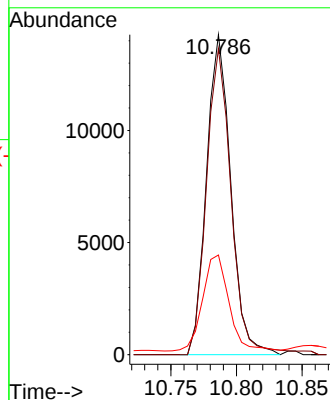
Tgt Ion:330 Resp: 18406

Ion Ratio Lower Upper

330 100

332 97.5 76.7 115.1

141 32.4 23.3 34.9



#45

2-Fluorobiphenyl

Concen: 11.771 ng

RT: 9.310 min Scan# 1210

Delta R.T. -0.012 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

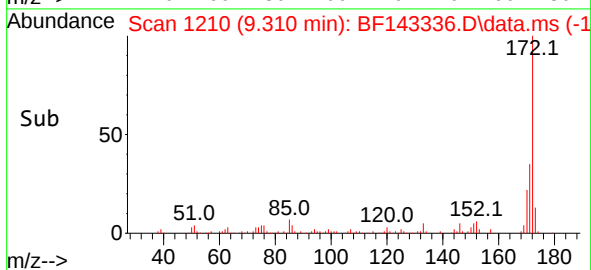
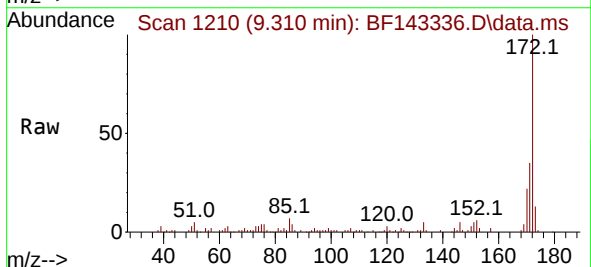
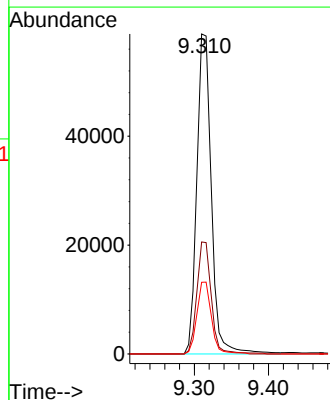
Tgt Ion:172 Resp: 80221

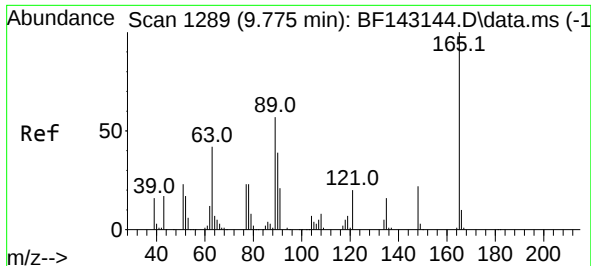
Ion Ratio Lower Upper

172 100

171 35.0 28.6 42.8

170 22.4 18.8 28.2

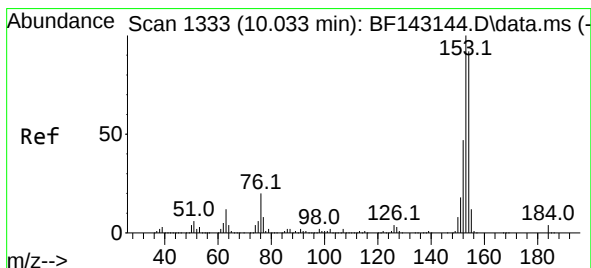
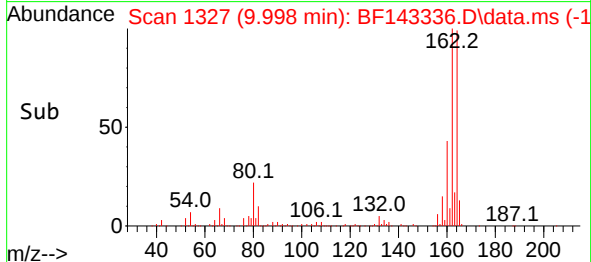
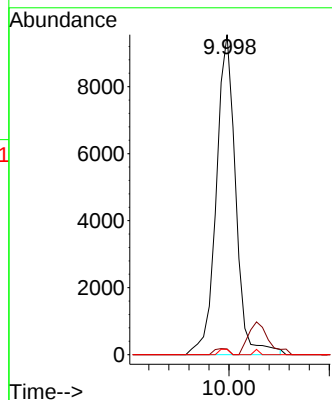
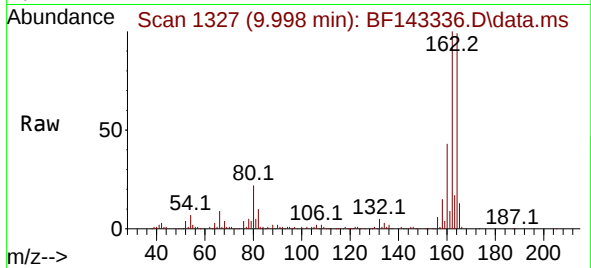




#51
2,6-Dinitrotoluene
Concen: 10.344 ng
RT: 9.998 min Scan# 11
Delta R.T. 0.223 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

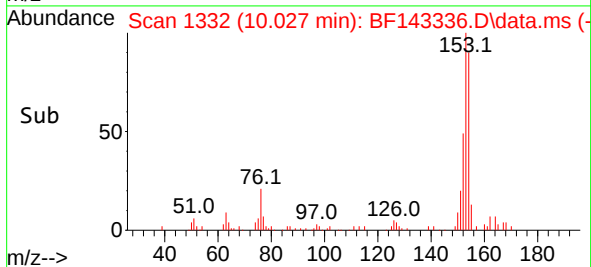
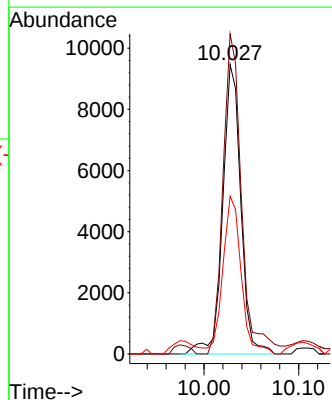
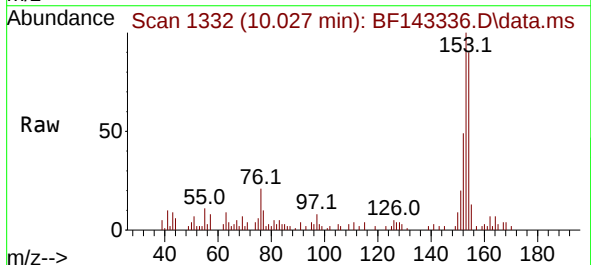
Instrument :
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TP-1

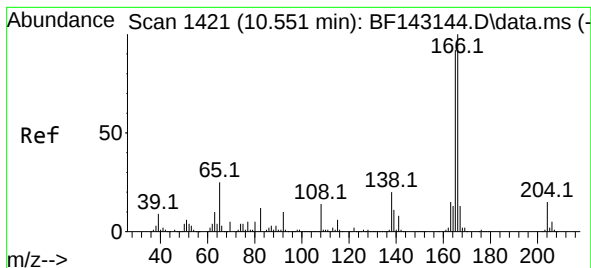
Tgt Ion:165 Resp: 12784
Ion Ratio Lower Upper
165 100
63 1.8 49.4 74.2#
89 1.7 46.2 69.2#



#52
Acenaphthene
Concen: 2.358 ng
RT: 10.027 min Scan# 1332
Delta R.T. -0.006 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

Tgt Ion:154 Resp: 12568
Ion Ratio Lower Upper
154 100
153 110.6 86.6 129.8
152 54.5 40.4 60.6





#58

Fluorene

Concen: 3.279 ng

RT: 10.545 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

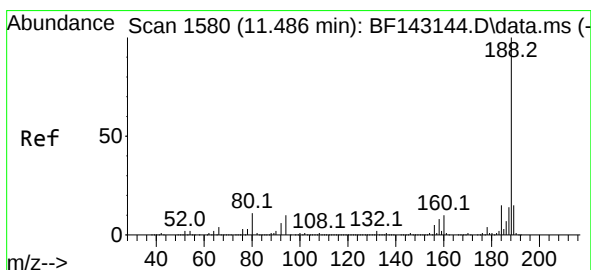
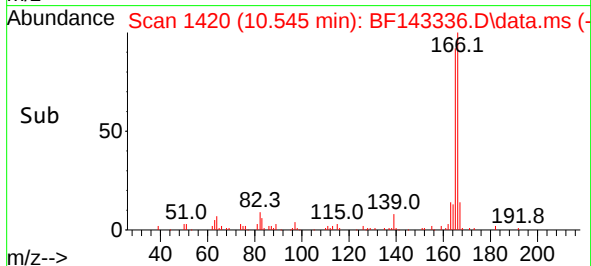
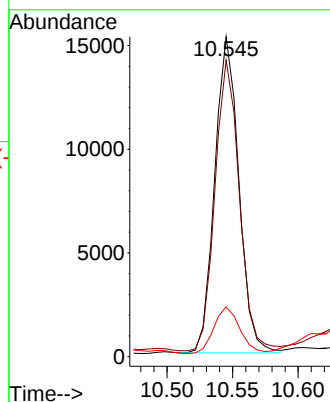
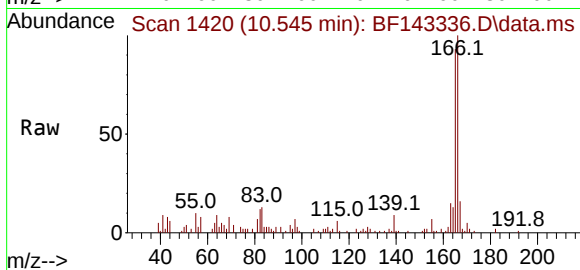
Tgt Ion:166 Resp: 19474

Ion Ratio Lower Upper

166 100

165 92.7 73.7 110.5

167 15.5 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: BF143336.D

Acq: 06 Aug 2025 18:11

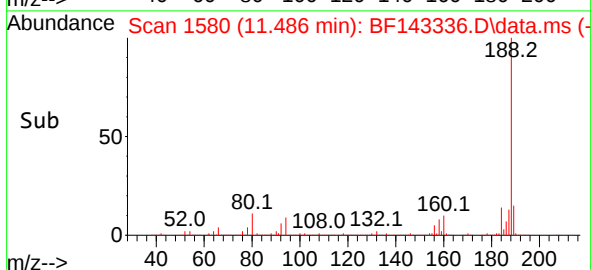
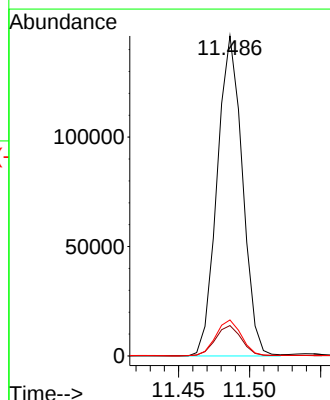
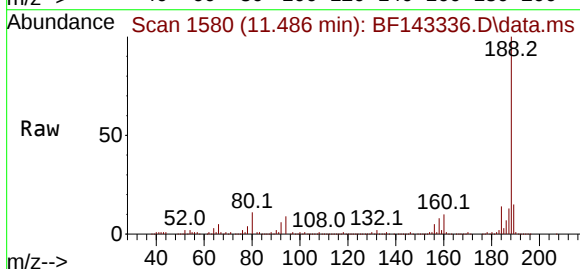
Tgt Ion:188 Resp: 181010

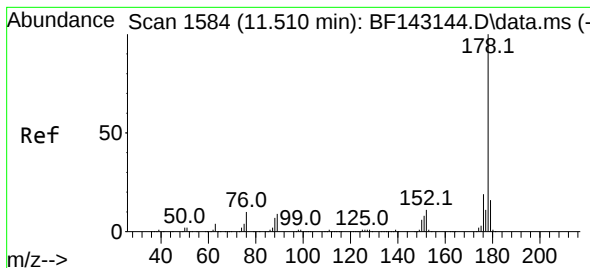
Ion Ratio Lower Upper

188 100

94 9.5 8.3 12.5

80 11.2 9.0 13.6





#71

Phenanthrene

Concen: 23.665 ng

RT: 11.510 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

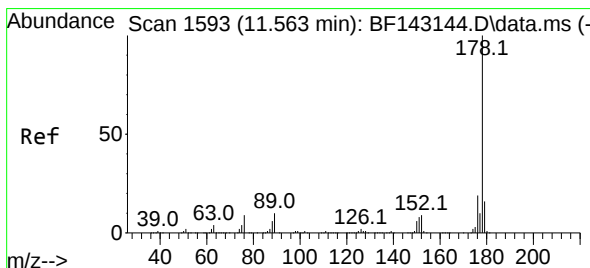
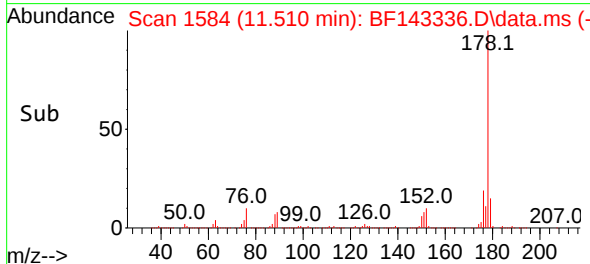
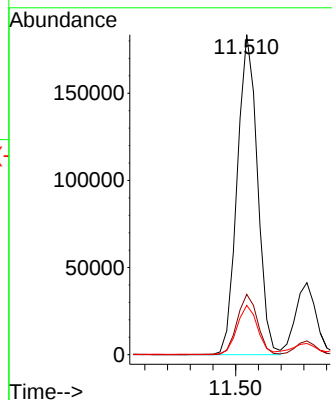
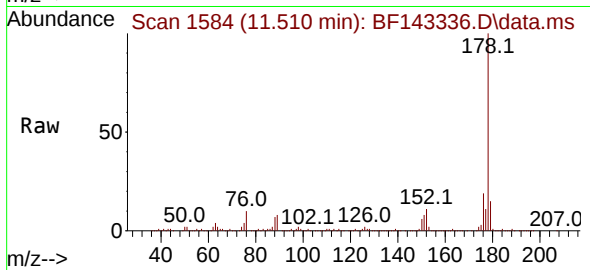
Tgt Ion:178 Resp: 227442

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

179 15.4 12.5 18.7



#72

Anthracene

Concen: 5.652 ng

RT: 11.563 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

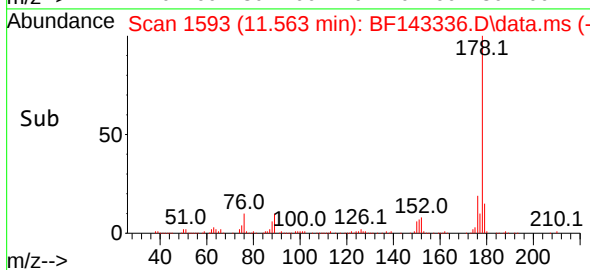
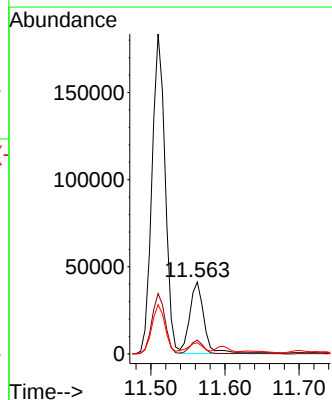
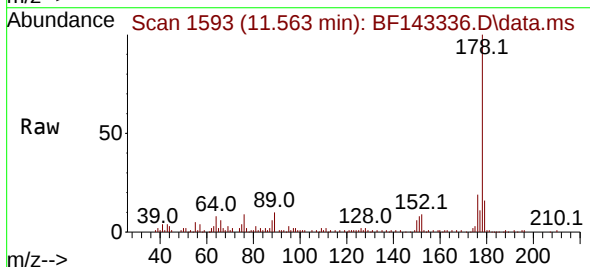
Tgt Ion:178 Resp: 55400

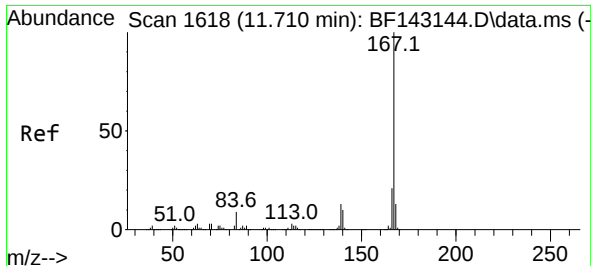
Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

179 15.6 12.5 18.7

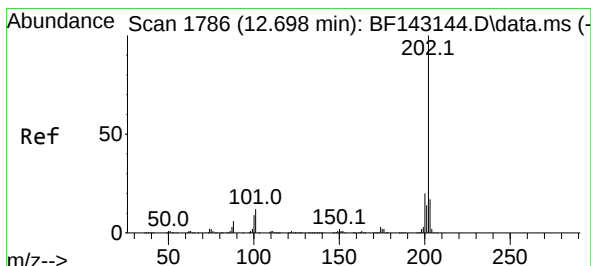
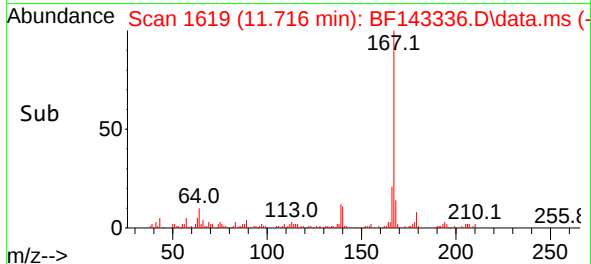
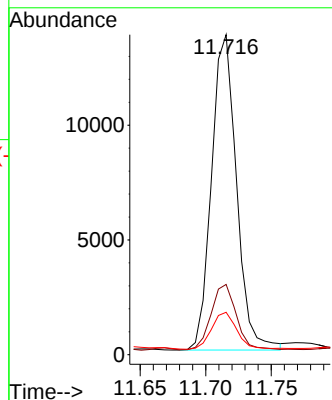
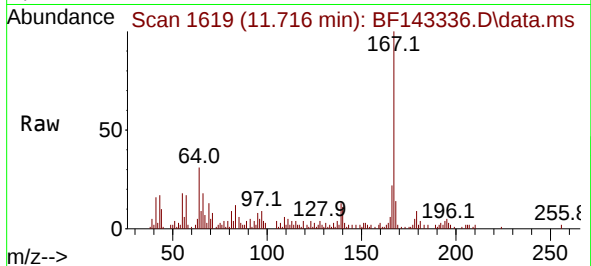




#73
 Carbazole
 Concen: 2.132 ng
 RT: 11.716 min Scan# 1618
 Delta R.T. 0.006 min
 Lab File: BF143336.D
 Acq: 06 Aug 2025 18:11

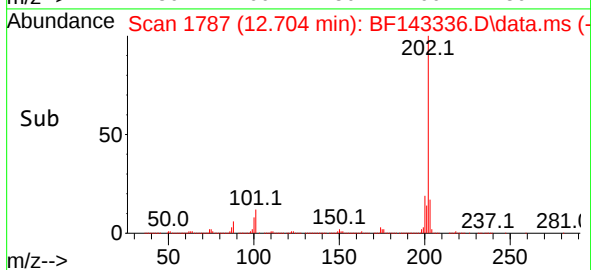
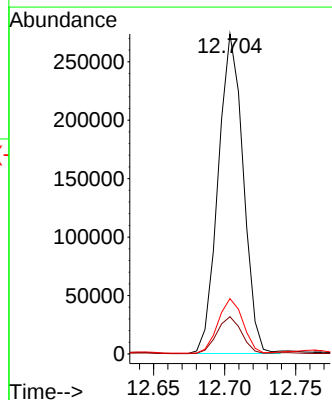
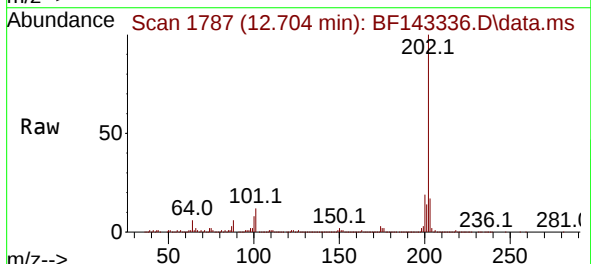
Instrument :
 BNA_F
 ClientSampleId :
 TP-1

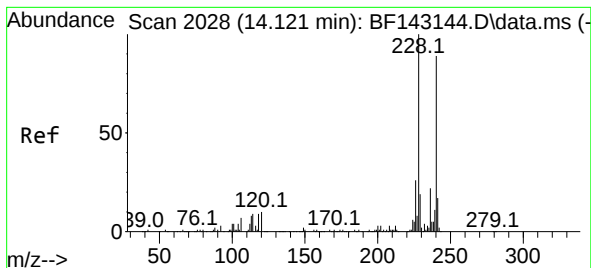
Tgt Ion:167 Resp: 18247
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.0 25.6
 139 13.3 10.0 15.0



#75
 Fluoranthene
 Concen: 37.997 ng
 RT: 12.704 min Scan# 1787
 Delta R.T. 0.006 min
 Lab File: BF143336.D
 Acq: 06 Aug 2025 18:11

Tgt Ion:202 Resp: 335196
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 31.7
 203 17.3 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: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

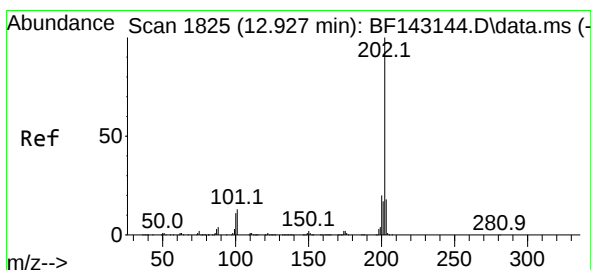
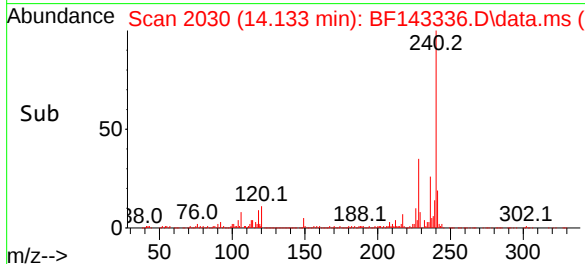
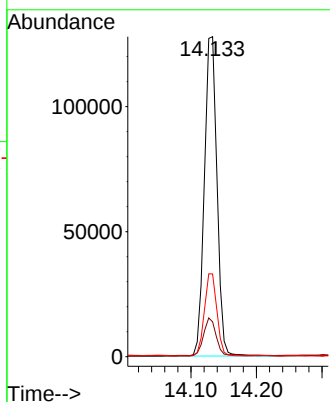
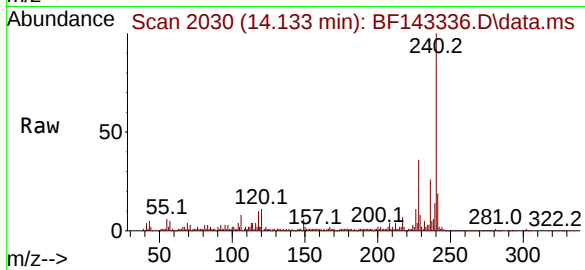
Tgt Ion:240 Resp: 171328

Ion Ratio Lower Upper

240 100

120 10.9 9.4 14.2

236 25.8 20.2 30.4



#78

Pyrene

Concen: 21.689 ng

RT: 12.933 min Scan# 1826

Delta R.T. 0.006 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

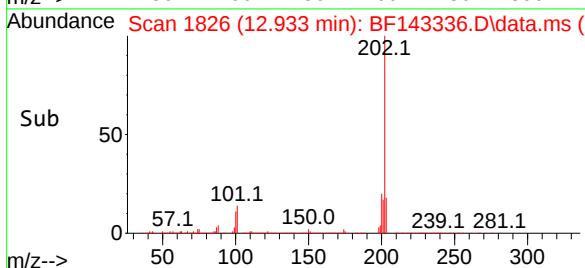
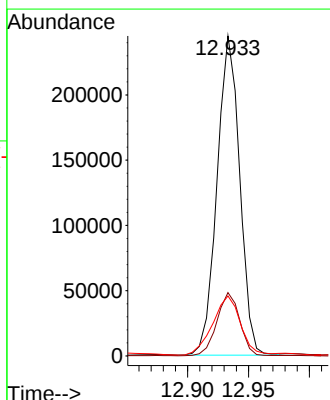
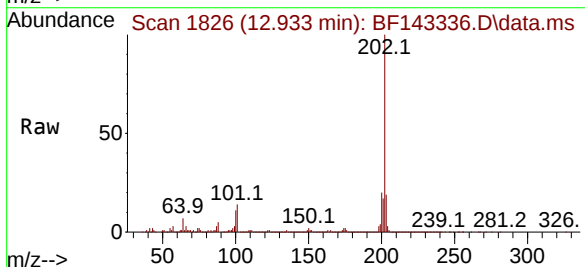
Tgt Ion:202 Resp: 317142

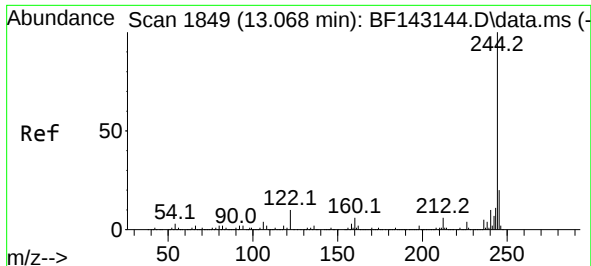
Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

203 18.8 14.2 21.2

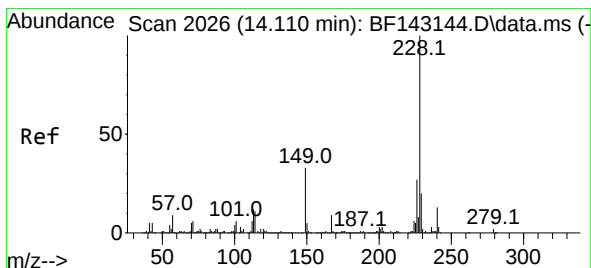
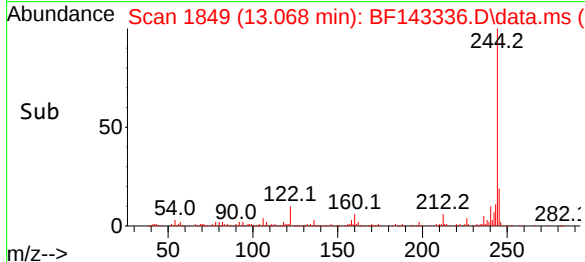
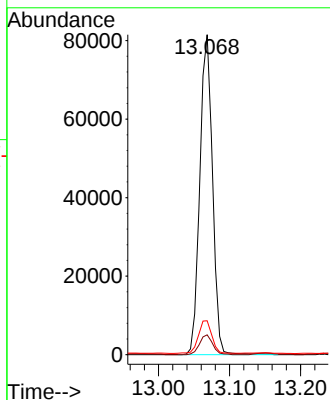
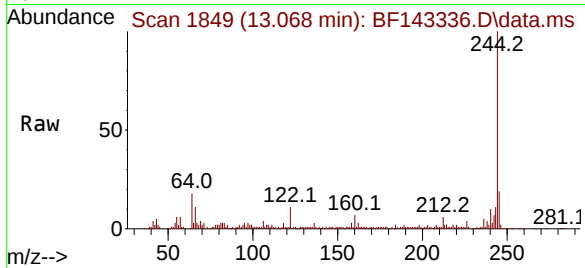




#79
 Terphenyl-d14
 Concen: 8.814 ng
 RT: 13.068 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF143336.D
 Acq: 06 Aug 2025 18:11

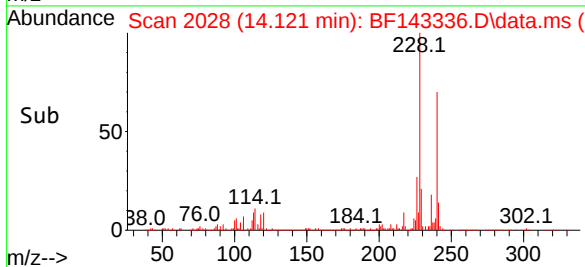
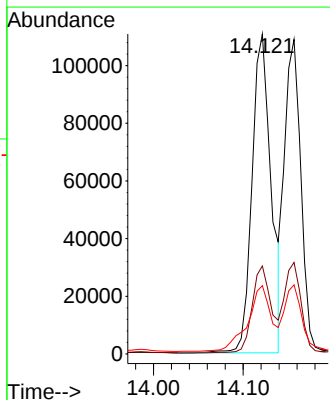
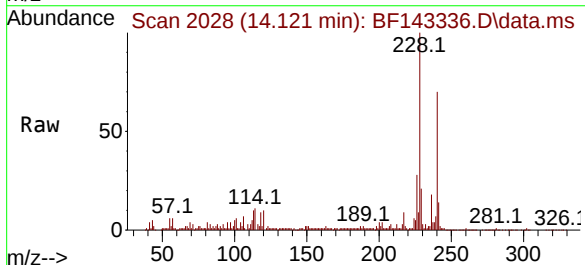
Instrument :
 BNA_F
 ClientSampleId :
 TP-1

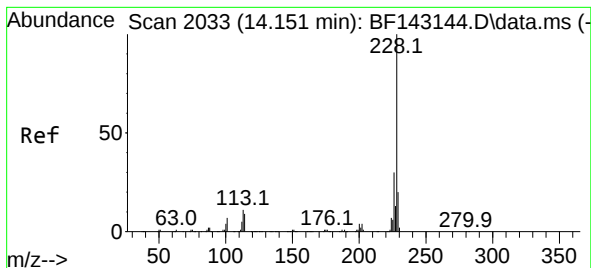
Tgt Ion:244 Resp: 101478
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.2 7.8
 122 10.6 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 14.266 ng
 RT: 14.121 min Scan# 2028
 Delta R.T. 0.012 min
 Lab File: BF143336.D
 Acq: 06 Aug 2025 18:11

Tgt Ion:228 Resp: 163633
 Ion Ratio Lower Upper
 228 100
 226 27.5 21.7 32.5
 229 21.3 15.8 23.6





#83

Chrysene

Concen: 13.269 ng

RT: 14.157 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

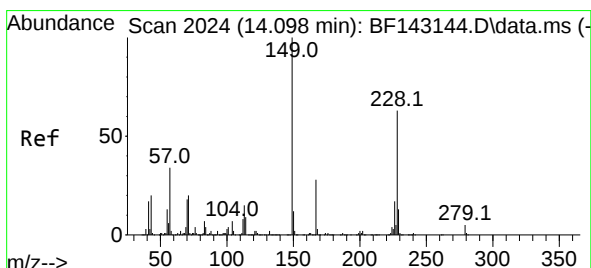
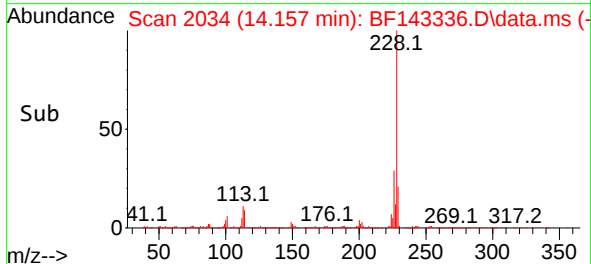
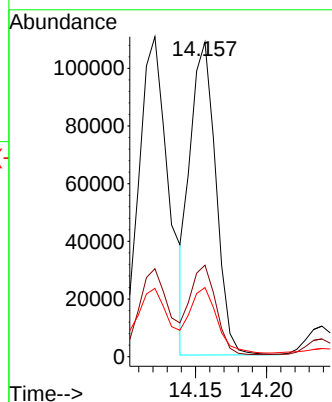
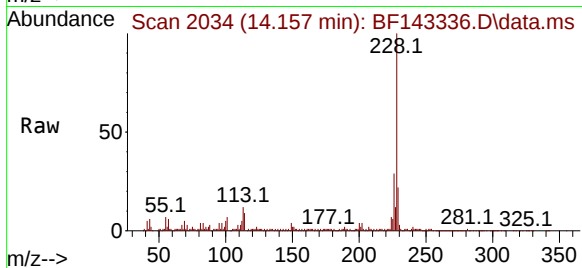
Tgt Ion:228 Resp: 136845

Ion Ratio Lower Upper

228 100

226 29.1 23.8 35.8

229 22.0 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.829 ng

RT: 14.098 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

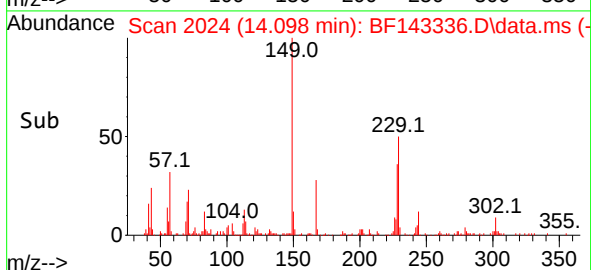
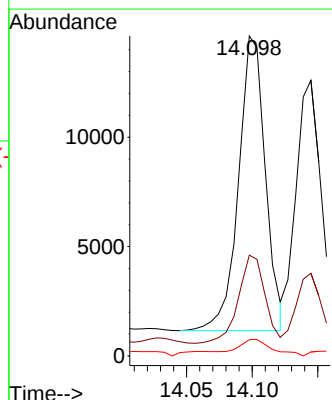
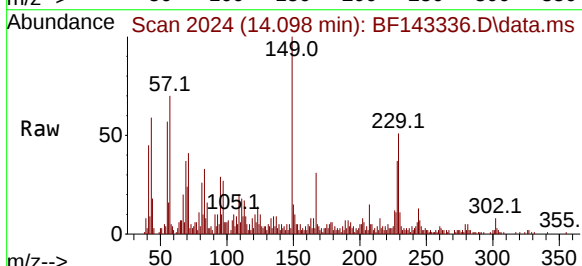
Tgt Ion:149 Resp: 19170

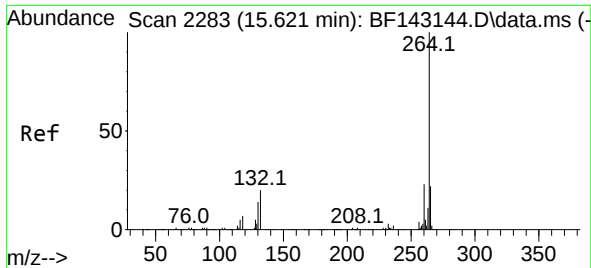
Ion Ratio Lower Upper

149 100

167 31.5 22.3 33.5

279 5.1 3.6 5.4

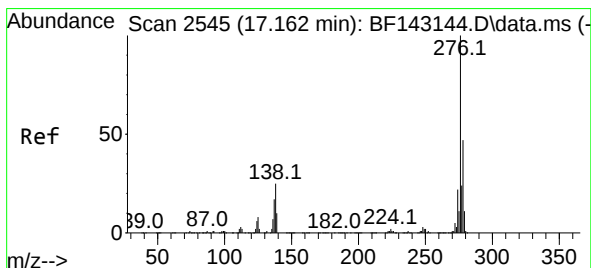
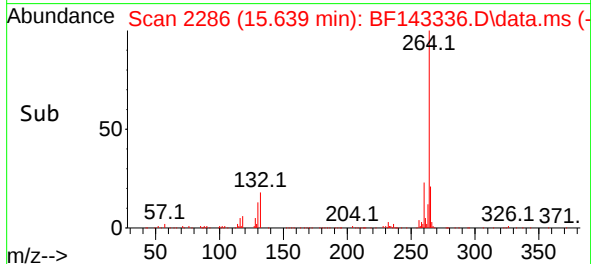
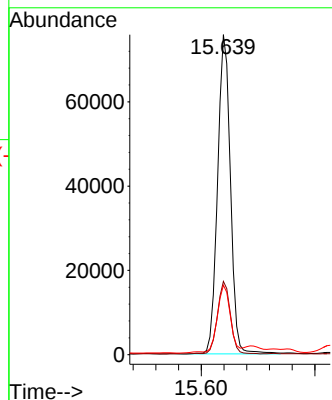
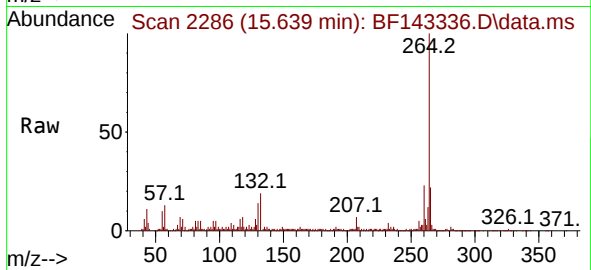




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

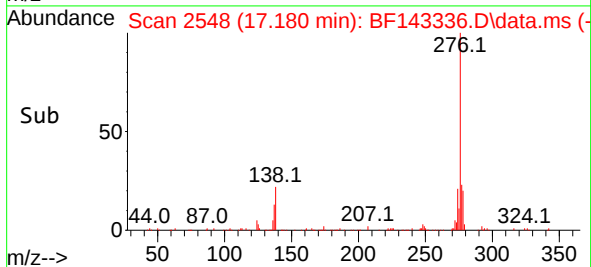
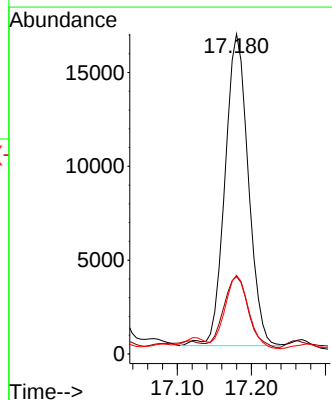
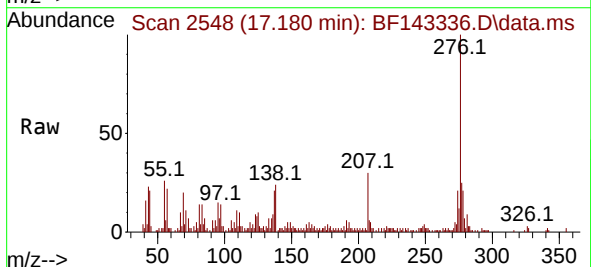
Instrument :
BNA_F
ClientSampleId :
TP-1

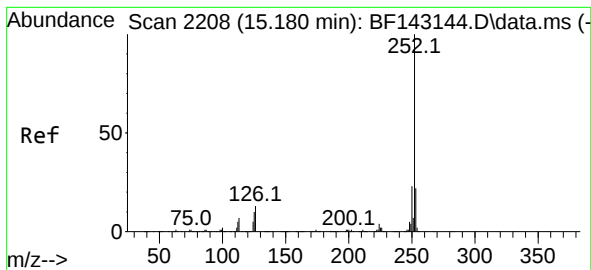
Tgt Ion:264 Resp: 118704
Ion Ratio Lower Upper
264 100
260 22.9 18.5 27.7
265 21.7 17.4 26.2



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.338 ng
RT: 17.180 min Scan# 2548
Delta R.T. 0.018 min
Lab File: BF143336.D
Acq: 06 Aug 2025 18:11

Tgt Ion:276 Resp: 36310
Ion Ratio Lower Upper
276 100
138 23.8 21.8 32.6
277 23.5 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 23.938 ng

RT: 15.192 min Scan# 2110

Delta R.T. 0.012 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

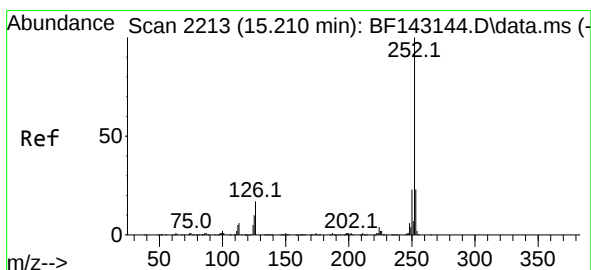
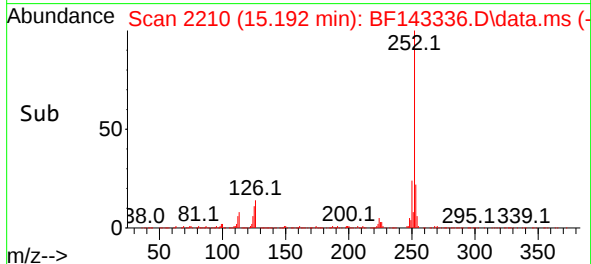
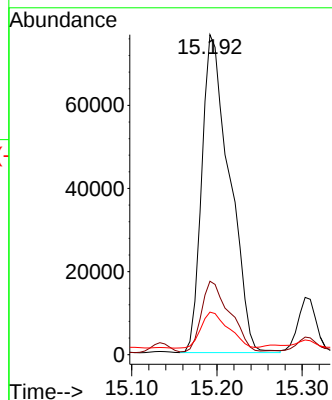
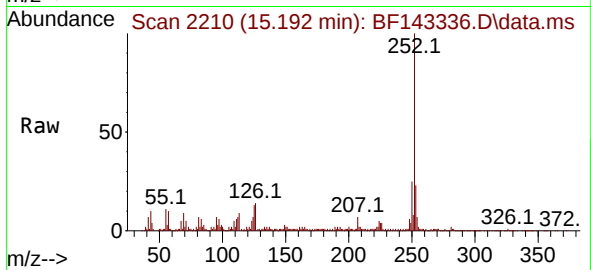
Tgt Ion:252 Resp: 173595

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 13.3 8.0 12.0#



#89

Benzo(k)fluoranthene

Concen: 26.826 ng

RT: 15.192 min Scan# 2210

Delta R.T. -0.018 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

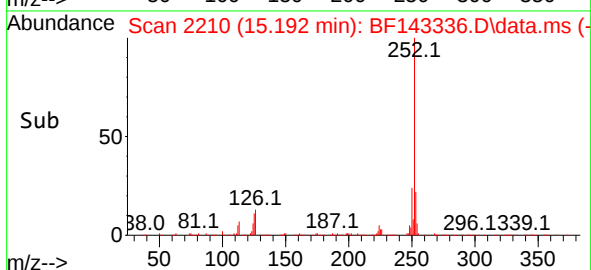
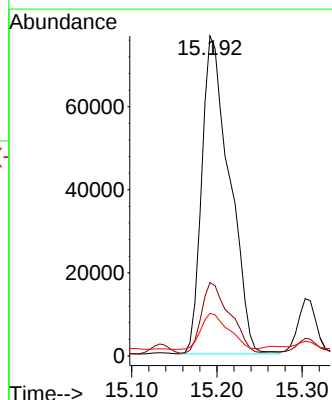
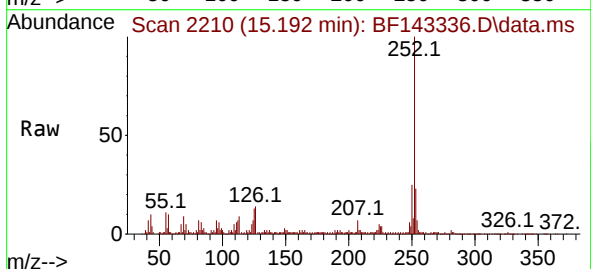
Tgt Ion:252 Resp: 173595

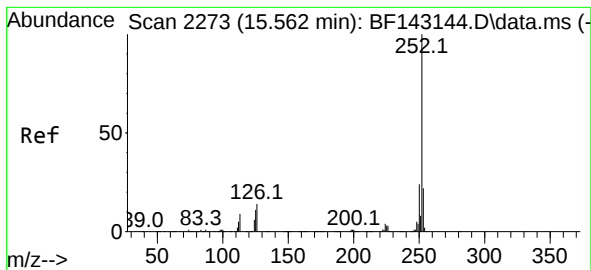
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 13.3 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 11.629 ng

RT: 15.574 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Instrument :

BNA_F

ClientSampleId :

TP-1

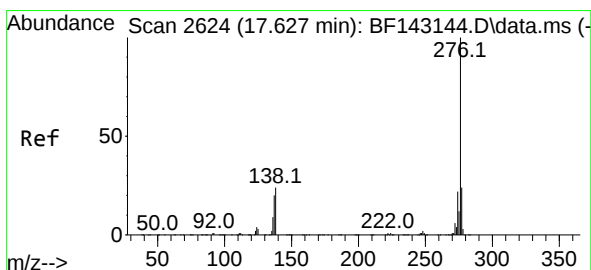
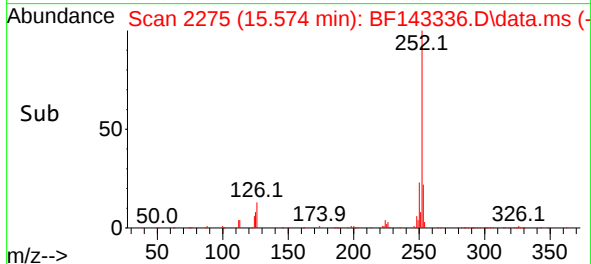
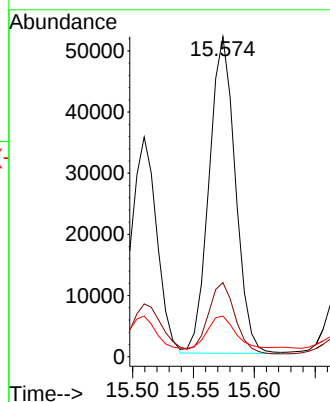
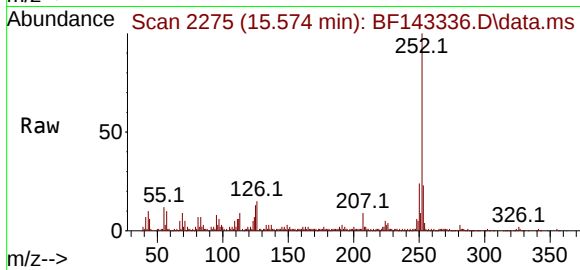
Tgt Ion:252 Resp: 77699

Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

125 12.7 8.6 13.0



#92

Benzo(g,h,i)perylene

Concen: 5.142 ng

RT: 17.645 min Scan# 2627

Delta R.T. 0.018 min

Lab File: BF143336.D

Acq: 06 Aug 2025 18:11

Tgt Ion:276 Resp: 33886

Ion Ratio Lower Upper

276 100

277 23.3 19.1 28.7

138 25.6 18.9 28.3

