

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022425\
 Data File : BF141740.D
 Acq On : 24 Feb 2025 12:55
 Operator : RC/JU
 Sample : Q1397-03
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7

Quant Time: Feb 24 13:25:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

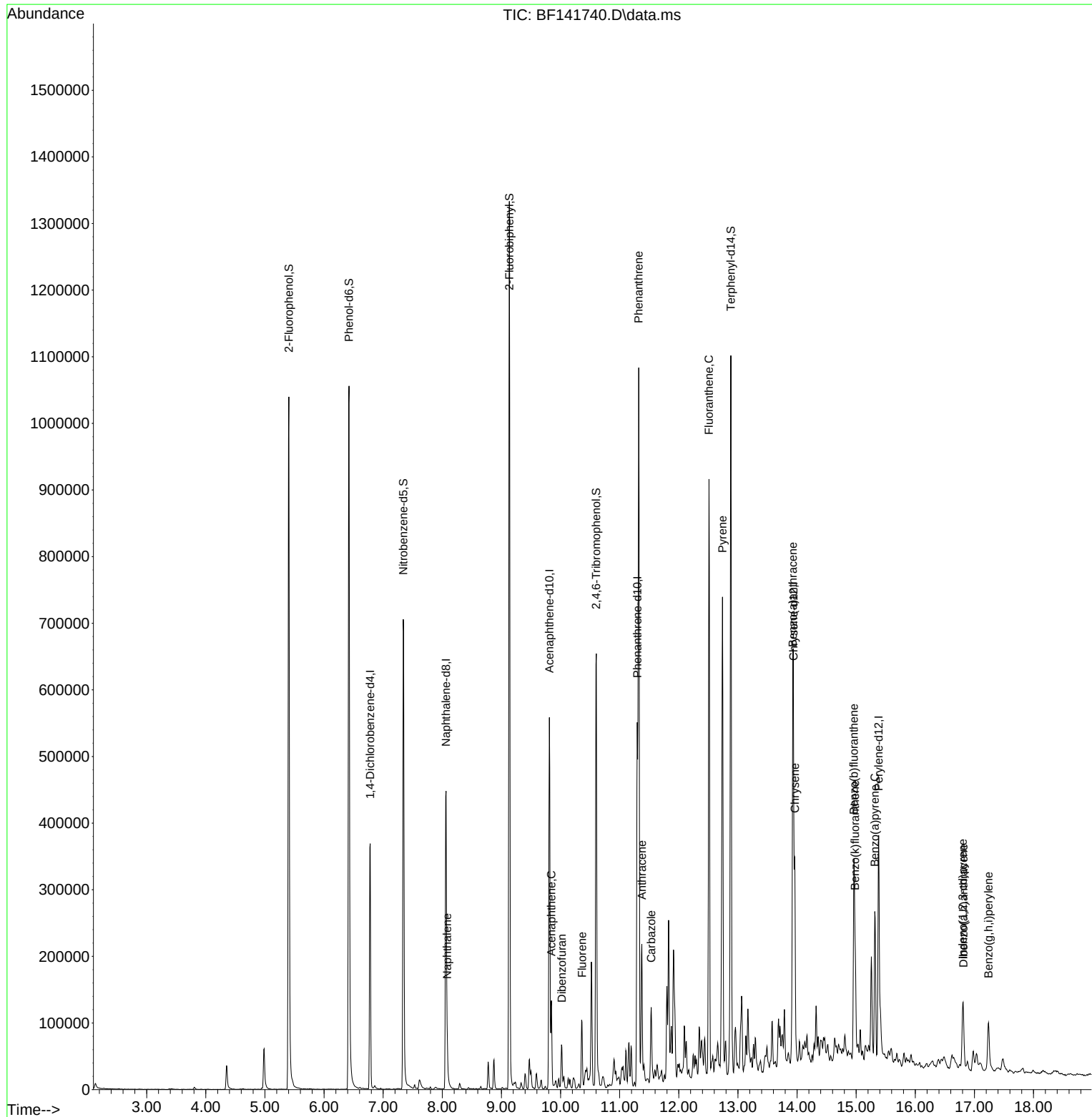
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	80753	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	318124	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	168089	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	274045	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	173929	20.000	ng	-0.02
86) Perylene-d12	15.380	264	196160	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	427207	82.938	ng	0.00
7) Phenol-d6	6.422	99	530942	81.554	ng	-0.02
23) Nitrobenzene-d5	7.340	82	341068	55.920	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	105194	62.299	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	588916	53.978	ng	-0.02
79) Terphenyl-d14	12.880	244	517259	50.206	ng	-0.02
Target Compounds						
						Qvalue
31) Naphthalene	8.081	128	36952	2.231	ng	98
52) Acenaphthene	9.845	154	40118	4.163	ng	99
55) Dibenzofuran	10.022	168	34164	2.415	ng	97
58) Fluorene	10.363	166	42079	3.848	ng	98
71) Phenanthrene	11.322	178	567812	37.641	ng	100
72) Anthracene	11.375	178	128583	8.479	ng	98
73) Carbazole	11.533	167	59109	4.332	ng	99
75) Fluoranthene	12.510	202	500217	31.277	ng	100
78) Pyrene	12.739	202	410272	27.710	ng	99
81) Benzo(a)anthracene	13.927	228	202446	17.510	ng	98
83) Chrysene	13.963	228	155023	14.521	ng	97
87) Indeno(1,2,3-cd)pyrene	16.804	276	70844	5.845	ng	99
88) Benzo(b)fluoranthene	14.963	252	194582m	14.773	ng	
89) Benzo(k)fluoranthene	14.980	252	61149m	5.437	ng	
90) Benzo(a)pyrene	15.315	252	139304	13.071	ng	97
91) Dibenzo(a,h)anthracene	16.815	278	21109m	2.149	ng	
92) Benzo(g,h,i)perylene	17.239	276	62895	6.120	ng	98

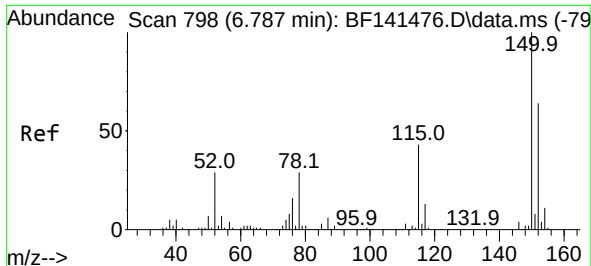
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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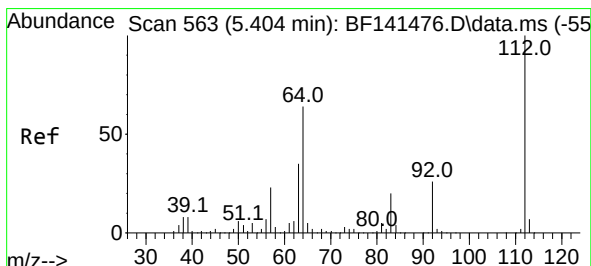
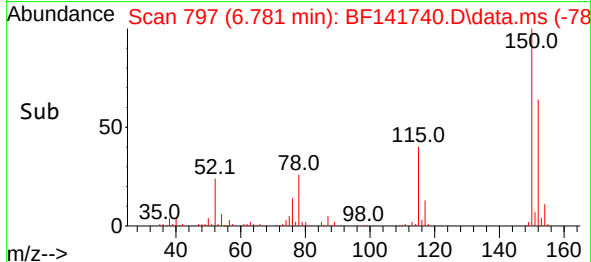
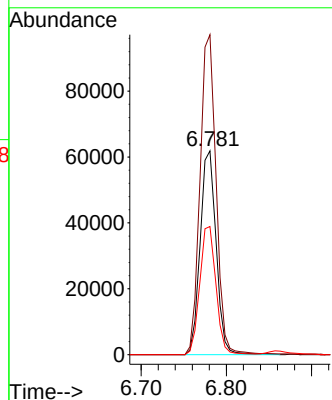
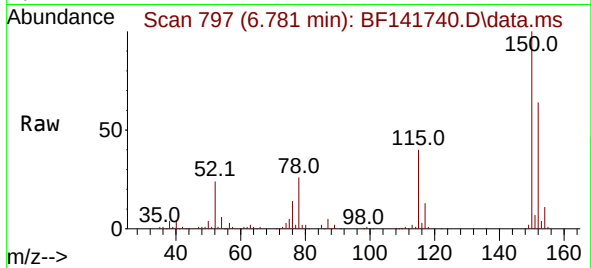




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

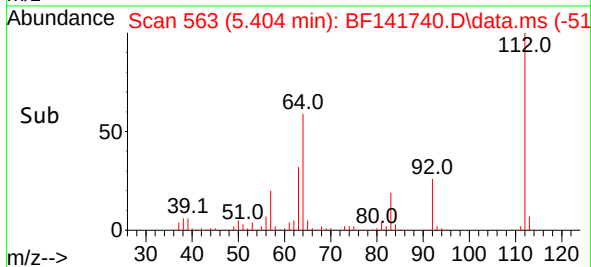
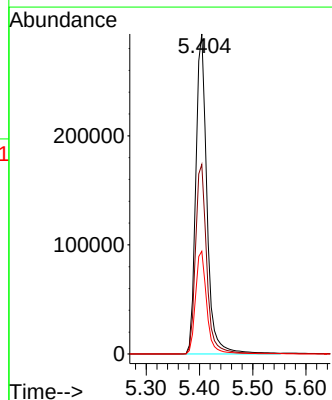
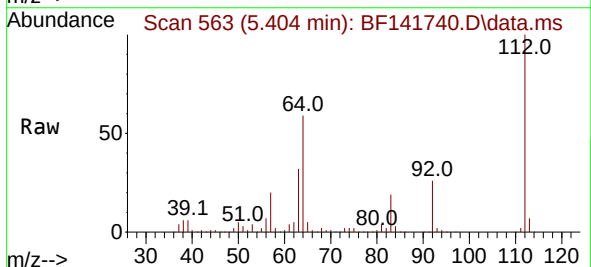
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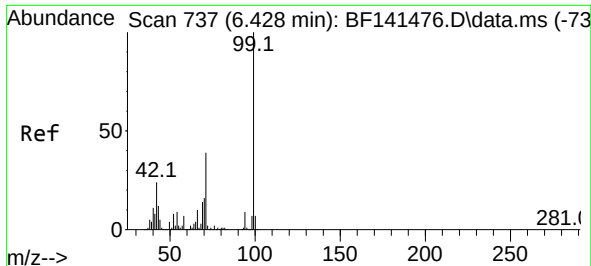
Tgt Ion:152 Resp: 80753
Ion Ratio Lower Upper
152 100
150 156.9 125.0 187.4
115 62.8 53.6 80.4



#5
2-Fluorophenol
Concen: 82.938 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:112 Resp: 427207
Ion Ratio Lower Upper
112 100
64 59.2 51.1 76.7
63 32.1 28.4 42.6

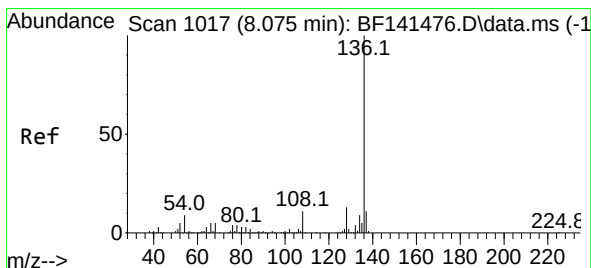
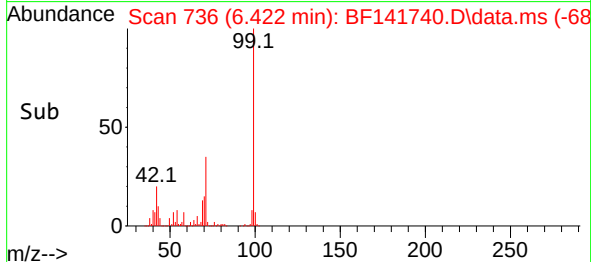
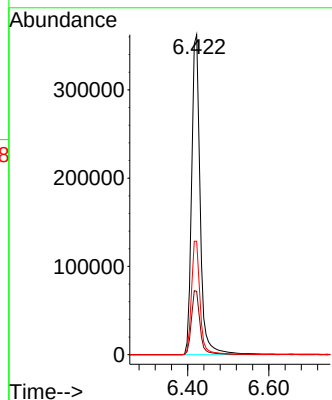
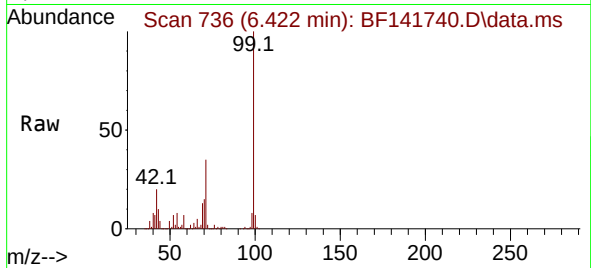




#7
Phenol-d6
Concen: 81.554 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

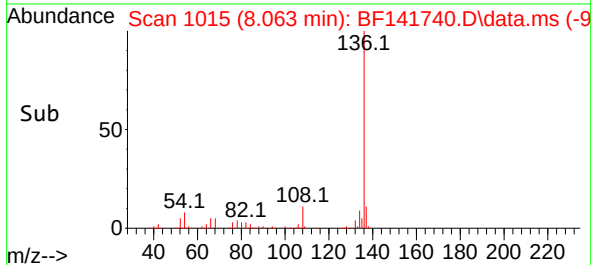
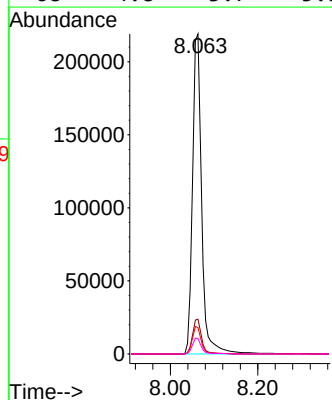
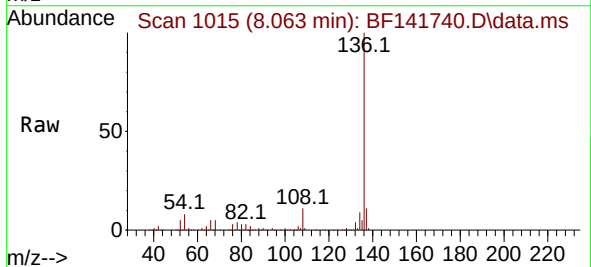
Instrument :
BNA_F
ClientSampleId :
TP7

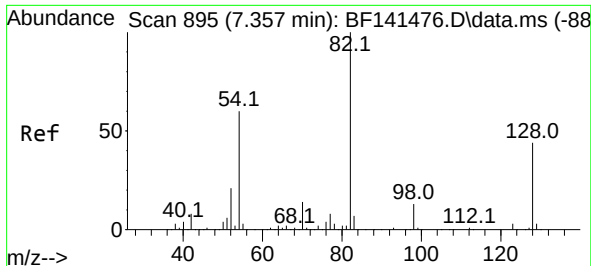
Tgt Ion: 99 Resp: 530942
Ion Ratio Lower Upper
99 100
42 19.8 19.1 28.7
71 35.5 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion: 136 Resp: 318124
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.3 7.2 10.8
68 4.8 3.7 5.5

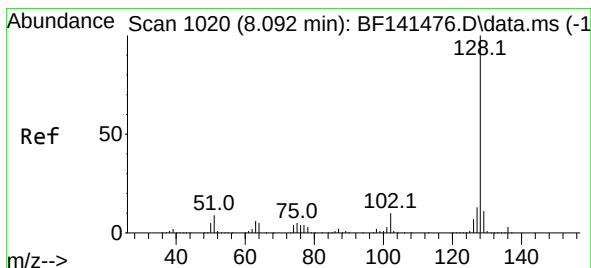
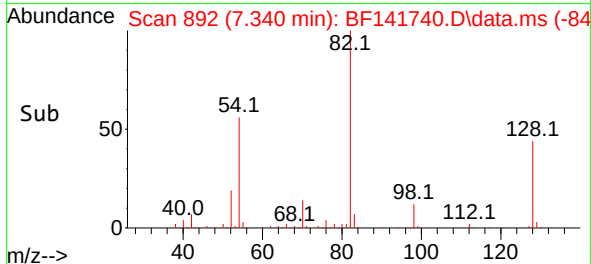
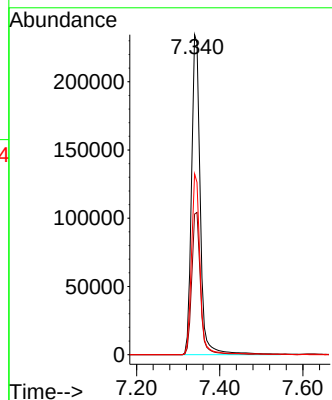
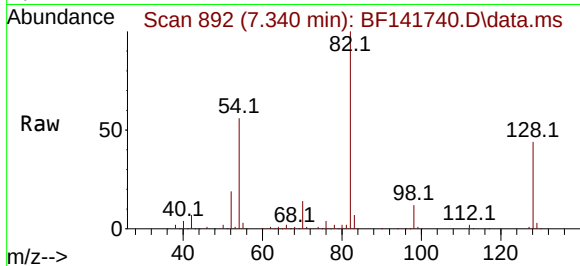




#23
 Nitrobenzene-d5
 Concen: 55.920 ng
 RT: 7.340 min Scan# 895
 Delta R.T. -0.023 min
 Lab File: BF141740.D
 Acq: 24 Feb 2025 12:55

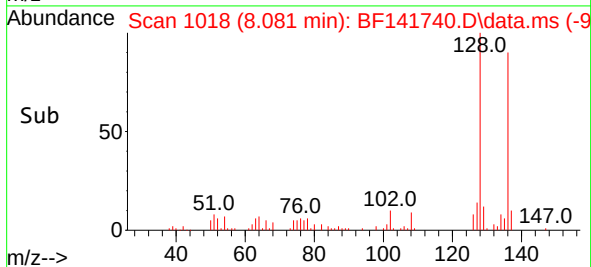
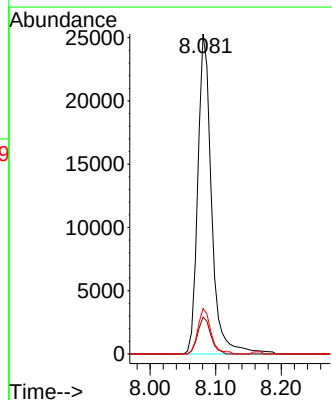
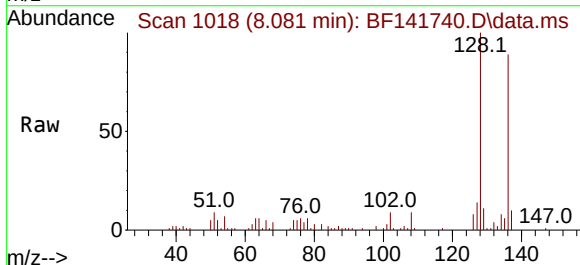
Instrument :
 BNA_F
 ClientSampleId :
 TP7

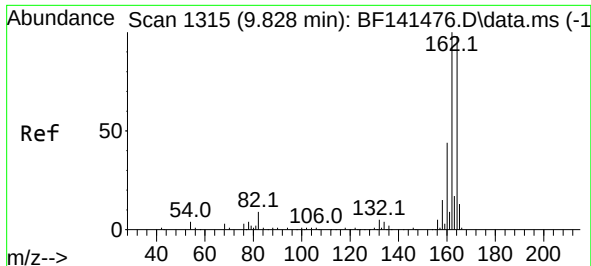
Tgt Ion: 82 Resp: 341068
 Ion Ratio Lower Upper
 82 100
 128 44.0 34.8 52.2
 54 56.5 48.2 72.4



#31
 Naphthalene
 Concen: 2.231 ng
 RT: 8.081 min Scan# 1018
 Delta R.T. -0.017 min
 Lab File: BF141740.D
 Acq: 24 Feb 2025 12:55

Tgt Ion: 128 Resp: 36952
 Ion Ratio Lower Upper
 128 100
 129 11.5 8.9 13.3
 127 14.2 10.7 16.1

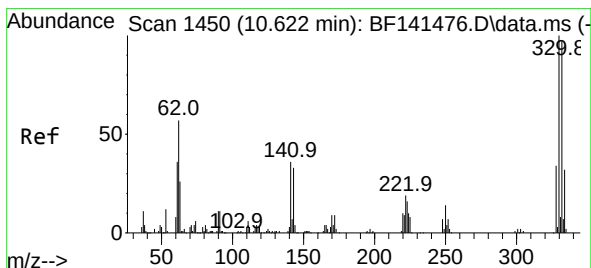
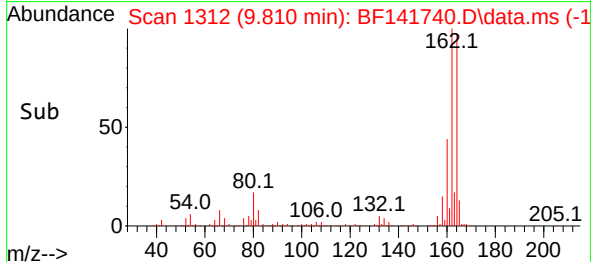
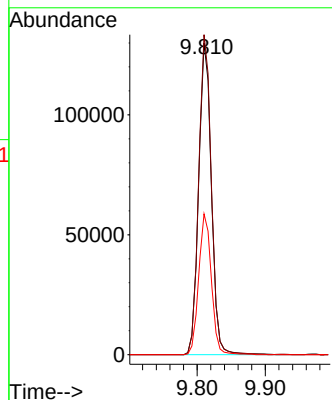
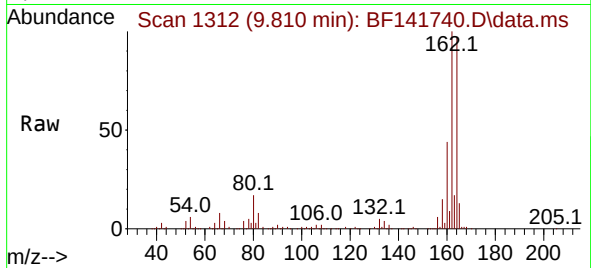




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

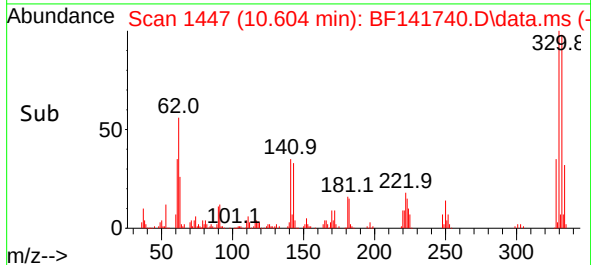
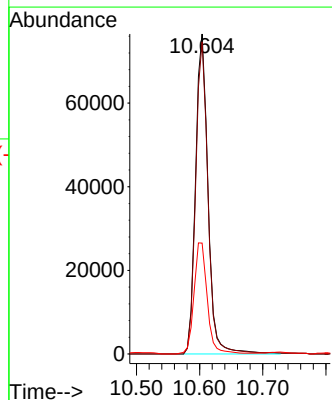
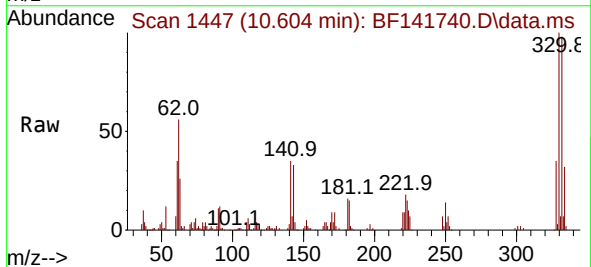
Instrument :
BNA_F
ClientSampleId :
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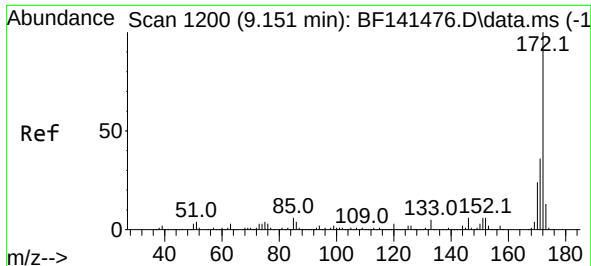
Tgt Ion:164 Resp: 168089
Ion Ratio Lower Upper
164 100
162 102.7 81.3 121.9
160 45.2 35.9 53.9



#42
2,4,6-Tribromophenol
Concen: 62.299 ng
RT: 10.604 min Scan# 1447
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:330 Resp: 105194
Ion Ratio Lower Upper
330 100
332 96.1 78.5 117.7
141 37.0 31.0 46.4





#45

2-Fluorobiphenyl

Concen: 53.978 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

TP7

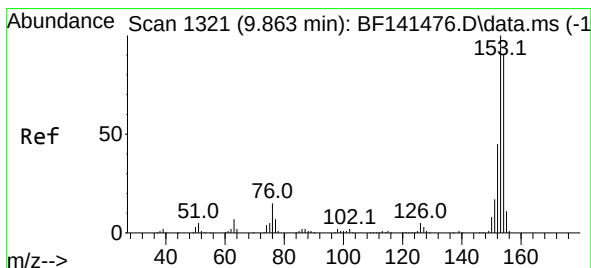
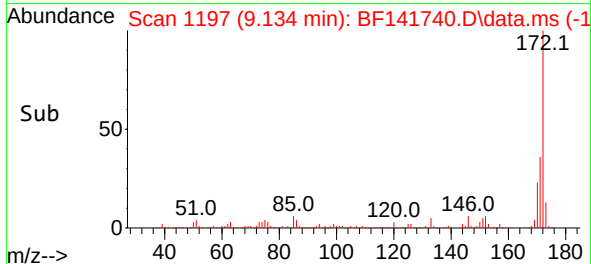
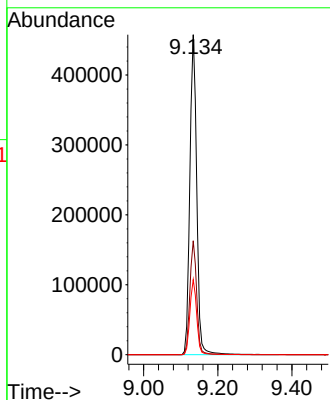
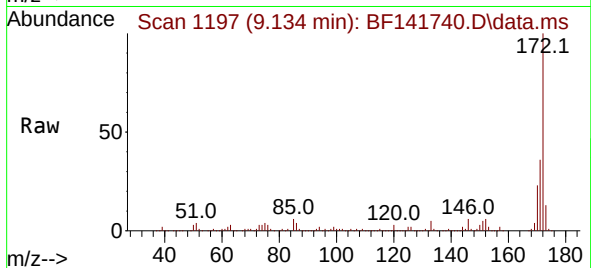
Tgt Ion:172 Resp: 588916

Ion Ratio Lower Upper

172 100

171 35.6 28.7 43.1

170 23.5 18.9 28.3



#52

Acenaphthene

Concen: 4.163 ng

RT: 9.845 min Scan# 1318

Delta R.T. -0.023 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

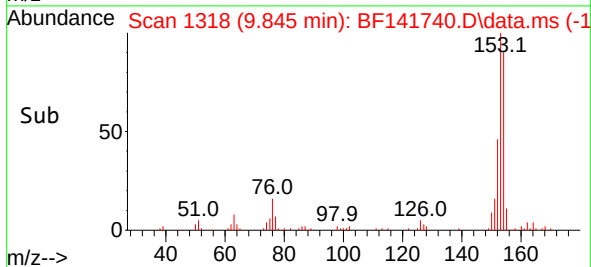
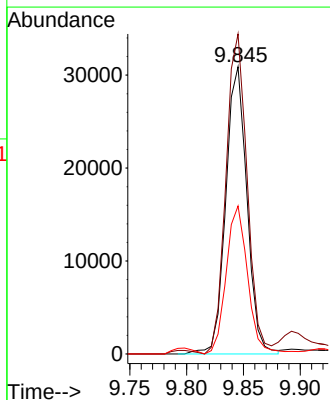
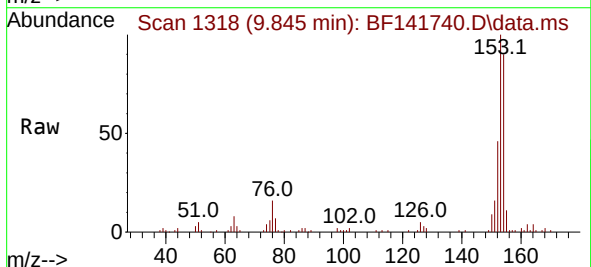
Tgt Ion:154 Resp: 40118

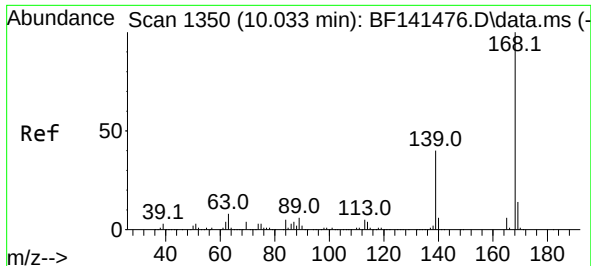
Ion Ratio Lower Upper

154 100

153 111.4 89.2 133.8

152 51.5 39.8 59.8

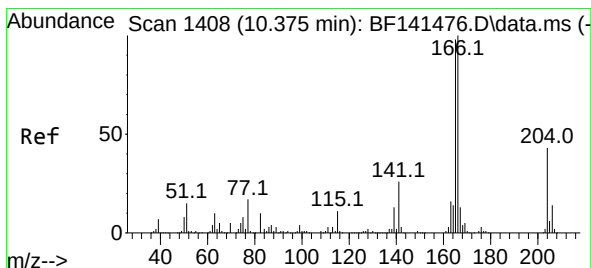
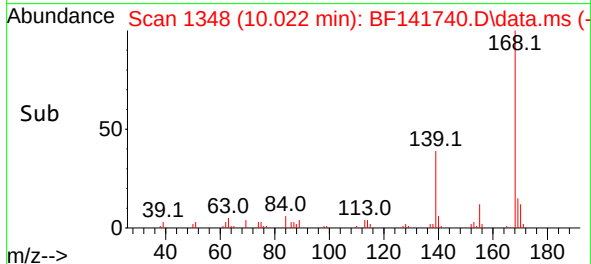
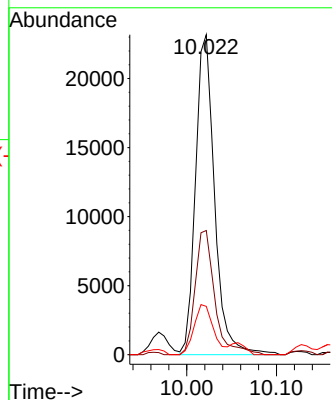
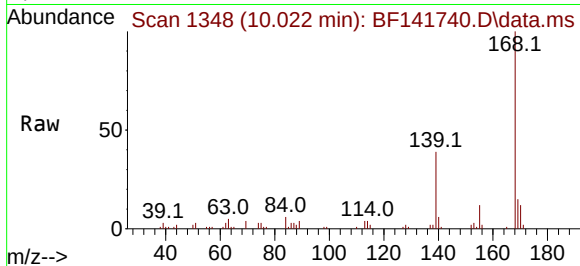




#55
Dibenzenofuran
Concen: 2.415 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

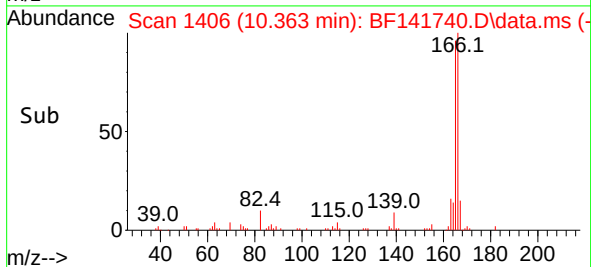
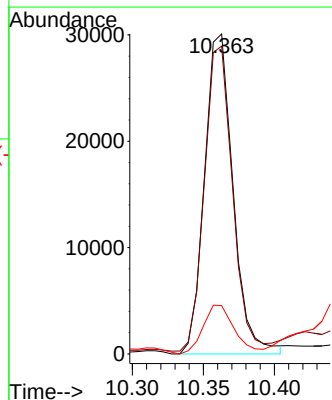
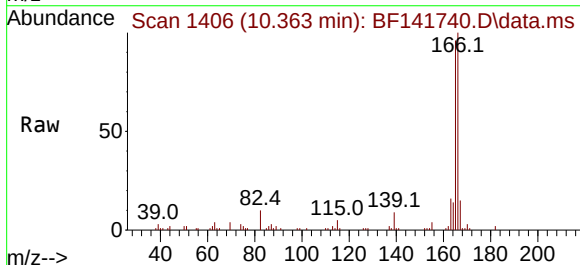
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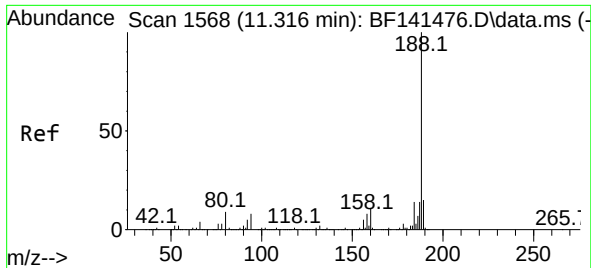
Tgt Ion:168 Resp: 34164
Ion Ratio Lower Upper
168 100
139 38.8 32.7 49.1
169 15.1 10.8 16.2



#58
Fluorene
Concen: 3.848 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.017 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:166 Resp: 42079
Ion Ratio Lower Upper
166 100
165 96.2 78.2 117.2
167 15.1 10.7 16.1

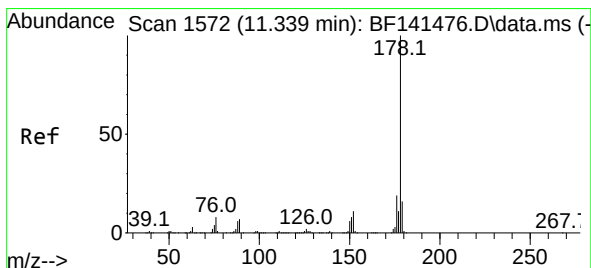
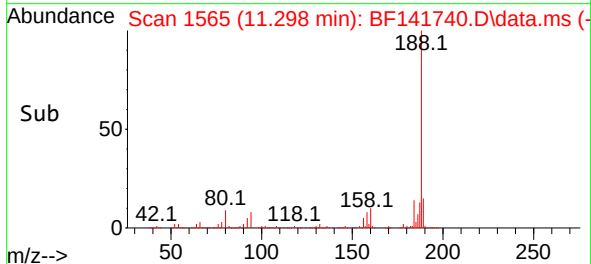
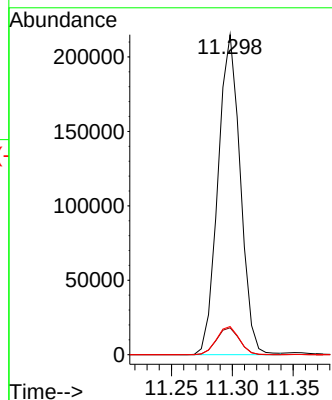
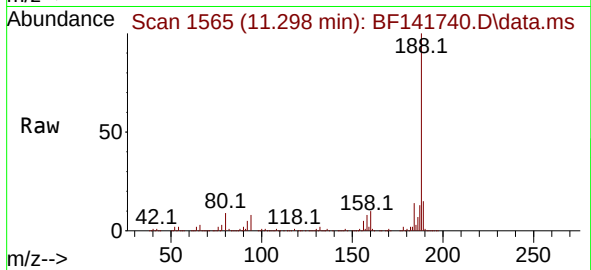




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

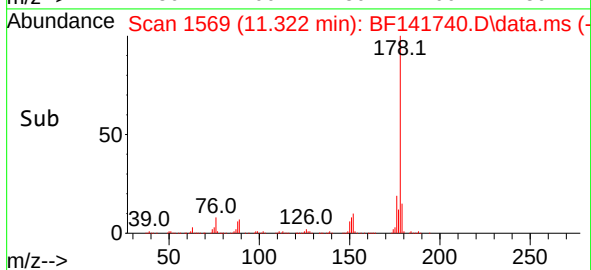
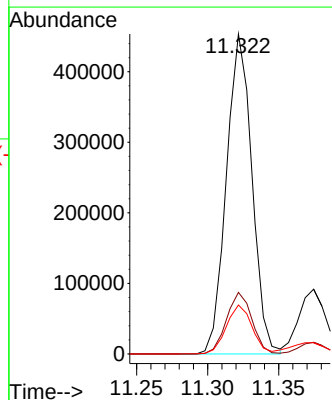
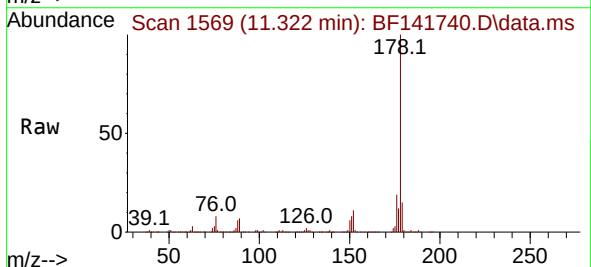
Instrument :
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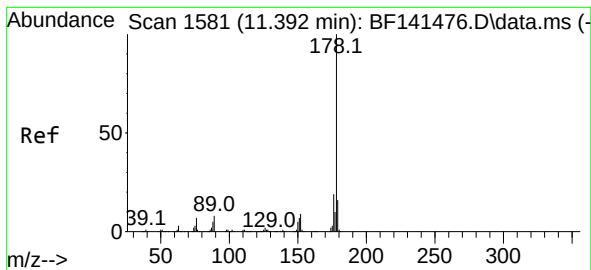
Tgt Ion:188 Resp: 274045
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 8.8 7.3 10.9



#71
Phenanthrene
Concen: 37.641 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:178 Resp: 567812
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.3 12.4 18.6





#72

Anthracene

Concen: 8.479 ng

RT: 11.375 min Scan# 1

Delta R.T. -0.023 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

TP7

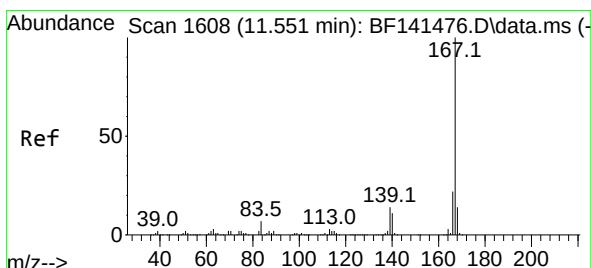
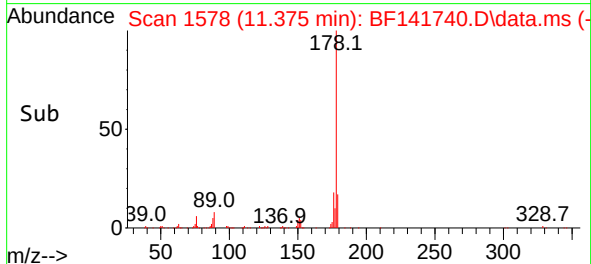
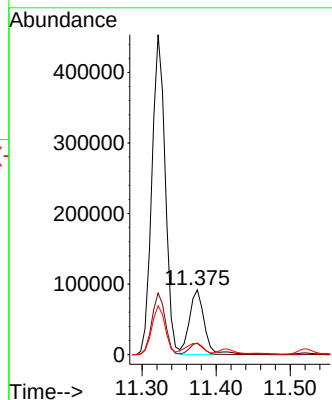
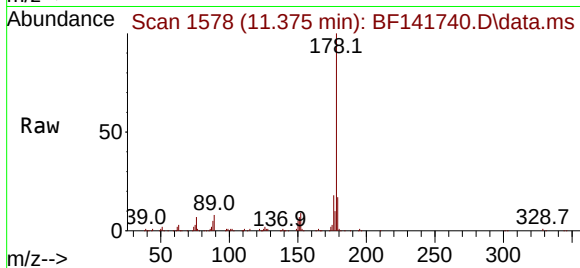
Tgt Ion:178 Resp: 128583

Ion Ratio Lower Upper

178 100

176 18.1 14.8 22.2

179 17.3 12.4 18.6



#73

Carbazole

Concen: 4.332 ng

RT: 11.533 min Scan# 1605

Delta R.T. -0.017 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

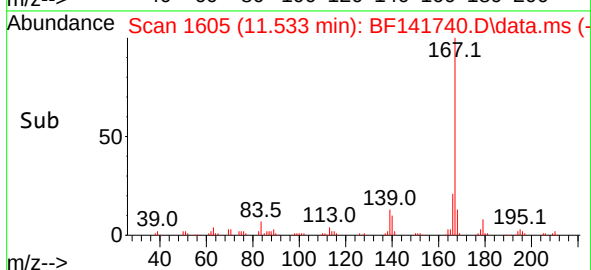
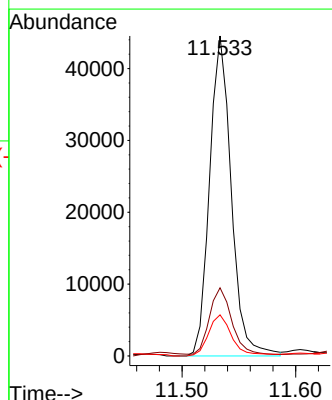
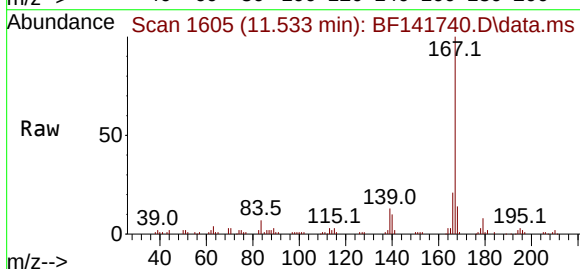
Tgt Ion:167 Resp: 59109

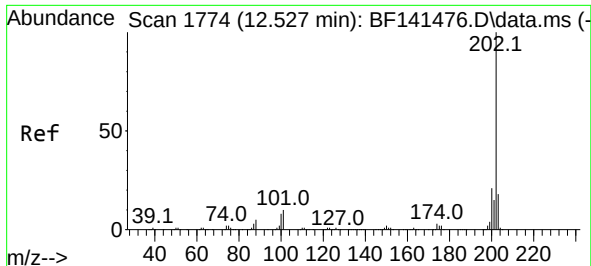
Ion Ratio Lower Upper

167 100

166 21.3 17.4 26.2

139 12.8 10.9 16.3

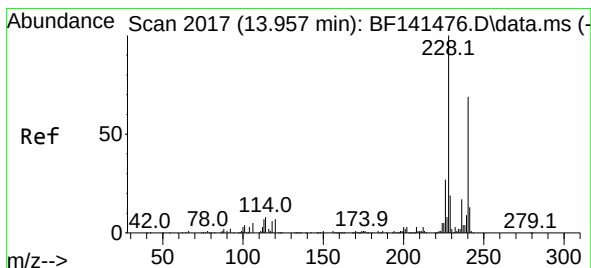
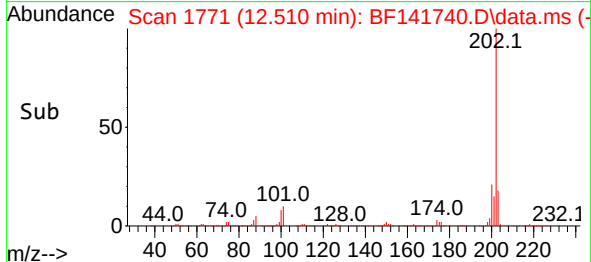
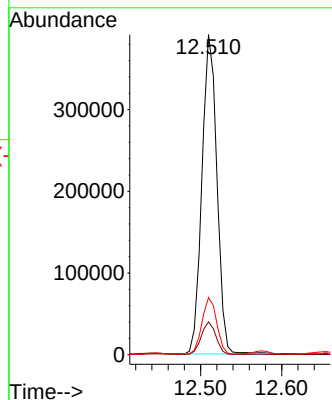
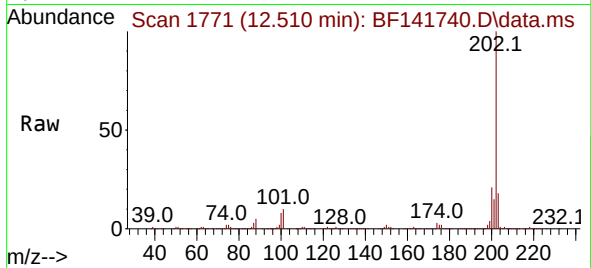




#75
Fluoranthene
Concen: 31.277 ng
RT: 12.510 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

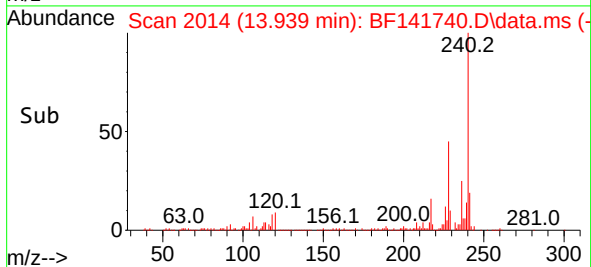
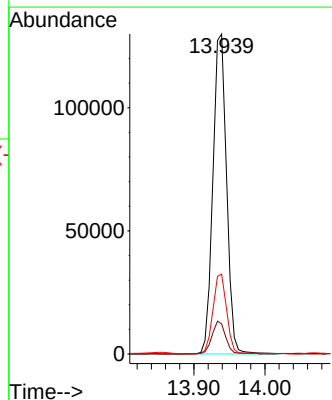
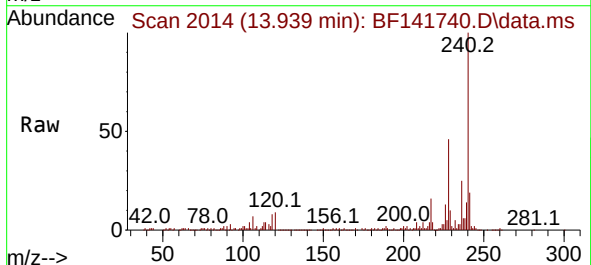
Instrument :
BNA_F
ClientSampleId :
TP7

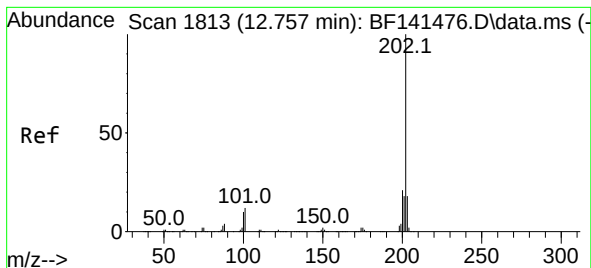
Tgt Ion:202 Resp: 500217
Ion Ratio Lower Upper
202 100
101 10.3 0.0 30.2
203 17.9 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:240 Resp: 173929
Ion Ratio Lower Upper
240 100
120 9.4 8.0 12.0
236 25.0 19.8 29.8





#78

Pyrene

Concen: 27.710 ng

RT: 12.739 min Scan# 1810

Delta R.T. -0.023 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

TP7

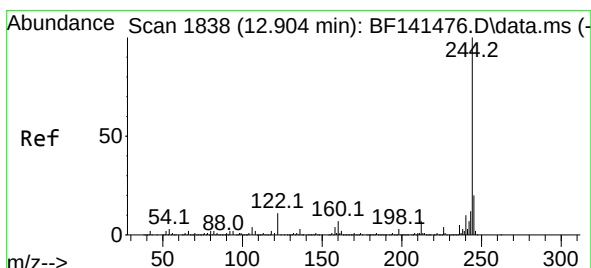
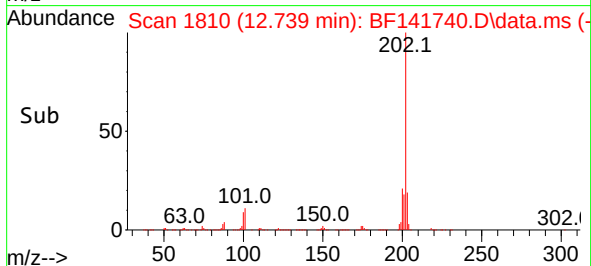
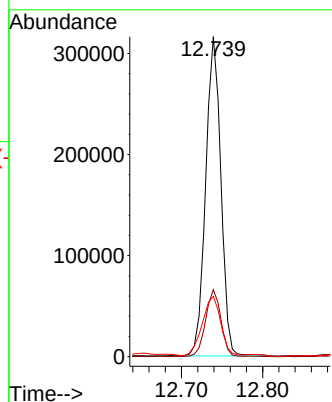
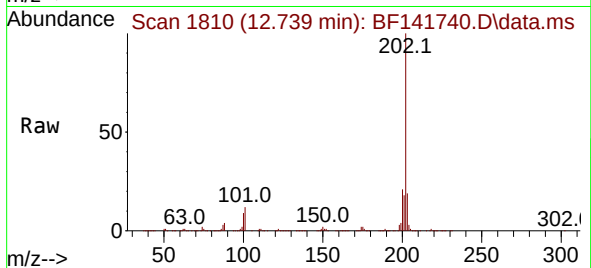
Tgt Ion:202 Resp: 410272

Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 18.8 14.3 21.5



#79

Terphenyl-d14

Concen: 50.206 ng

RT: 12.880 min Scan# 1834

Delta R.T. -0.023 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

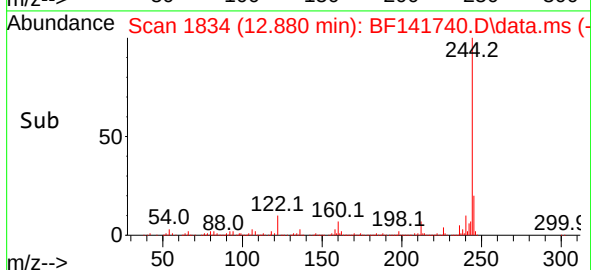
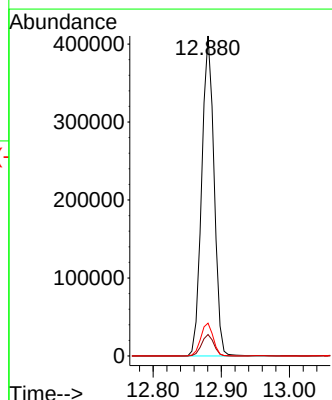
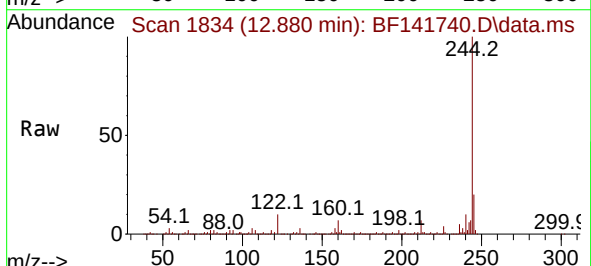
Tgt Ion:244 Resp: 517259

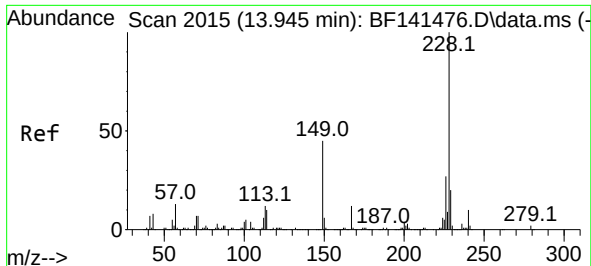
Ion Ratio Lower Upper

244 100

212 6.7 5.6 8.4

122 10.3 8.4 12.6

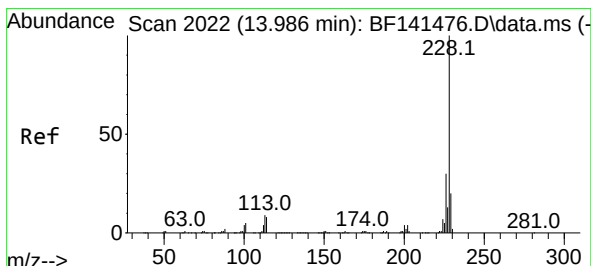
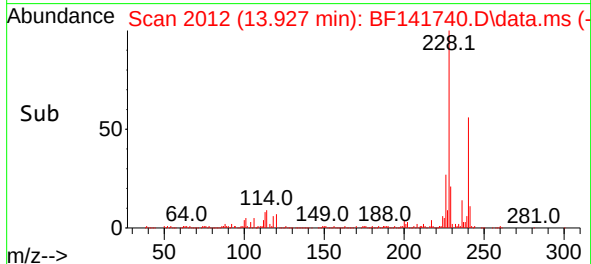
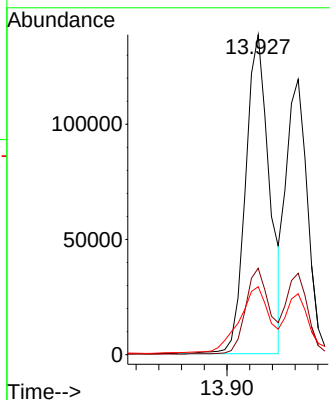
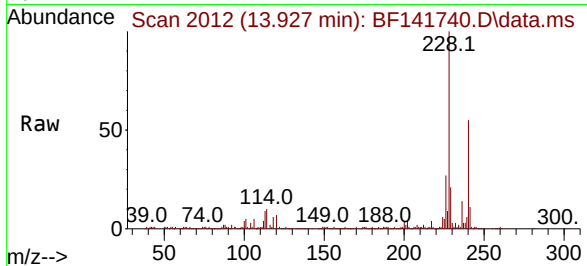




#81
Benzo(a)anthracene
Concen: 17.510 ng
RT: 13.927 min Scan# 2012
Delta R.T. -0.023 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

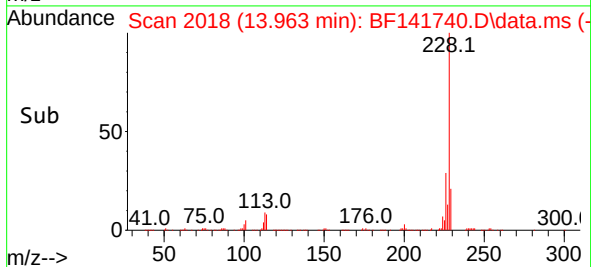
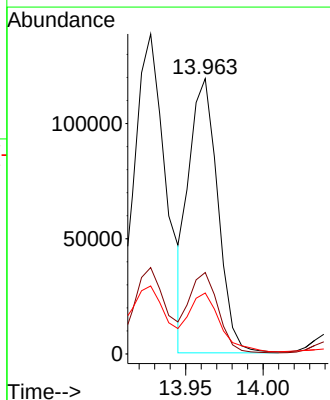
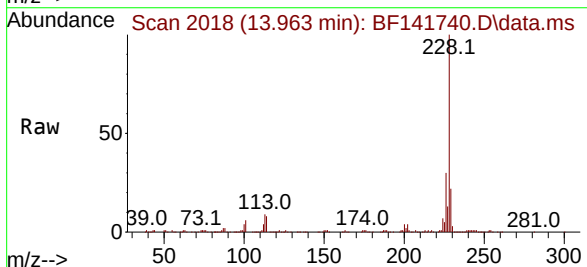
Instrument :
BNA_F
ClientSampleId :
TP7

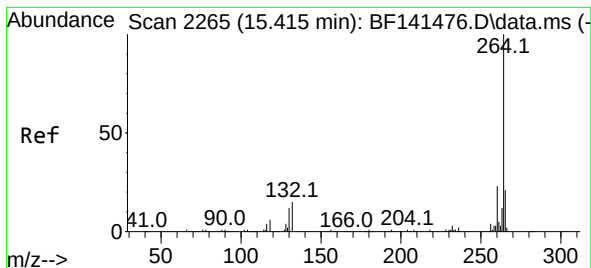
Tgt Ion:228 Resp: 202446
Ion Ratio Lower Upper
228 100
226 27.0 21.8 32.8
229 21.3 15.8 23.6



#83
Chrysene
Concen: 14.521 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.029 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:228 Resp: 155023
Ion Ratio Lower Upper
228 100
226 29.6 24.0 36.0
229 22.2 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.380 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

TP7

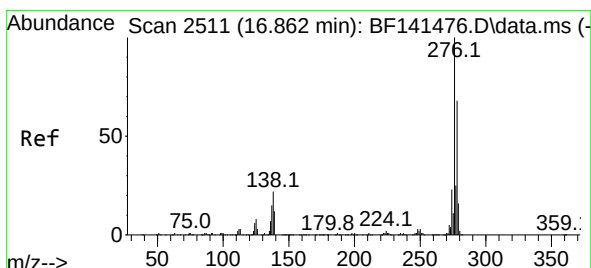
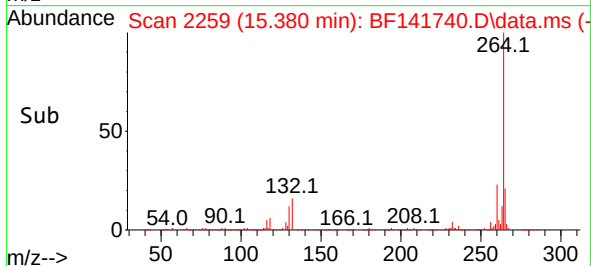
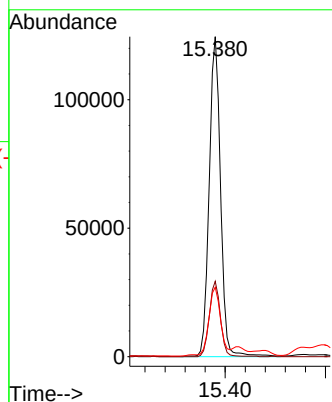
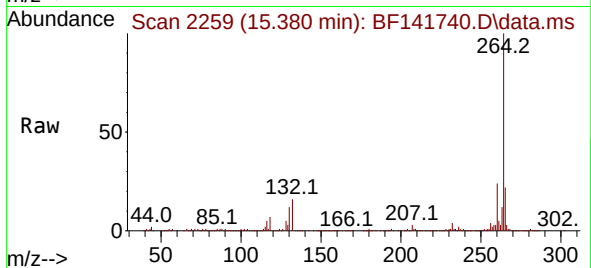
Tgt Ion:264 Resp: 196160

Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 21.7 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.845 ng

RT: 16.804 min Scan# 2501

Delta R.T. -0.070 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

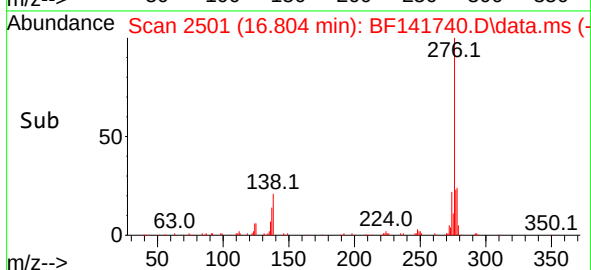
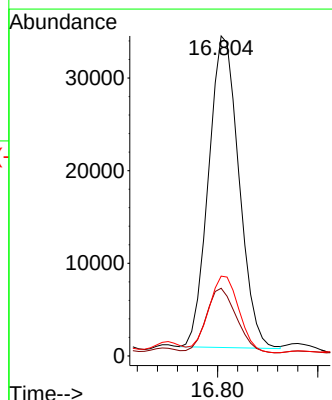
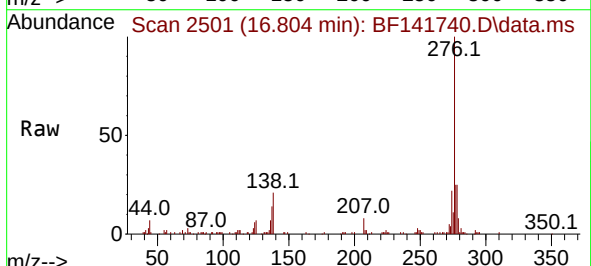
Tgt Ion:276 Resp: 70844

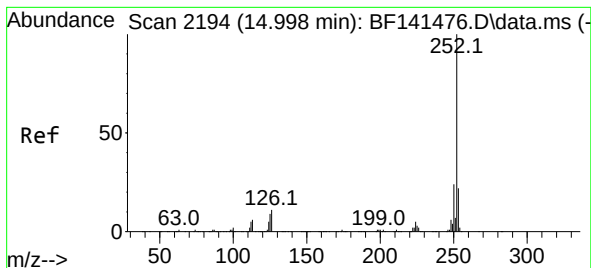
Ion Ratio Lower Upper

276 100

138 22.0 18.0 27.0

277 24.7 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 14.773 ng m

RT: 14.963 min Scan# 2188

Delta R.T. -0.041 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

TP7

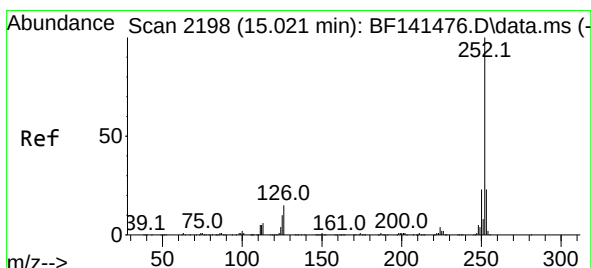
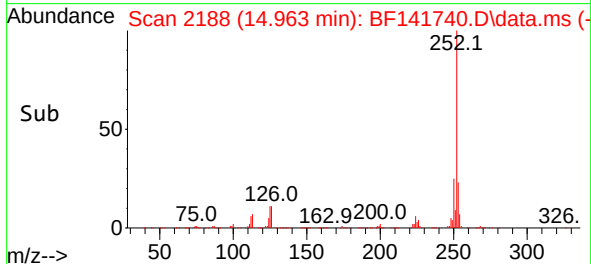
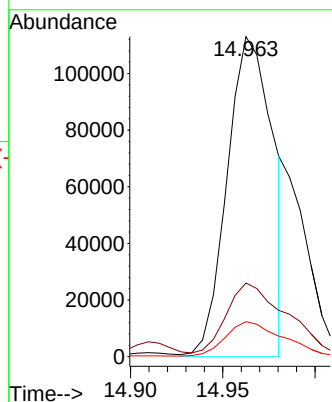
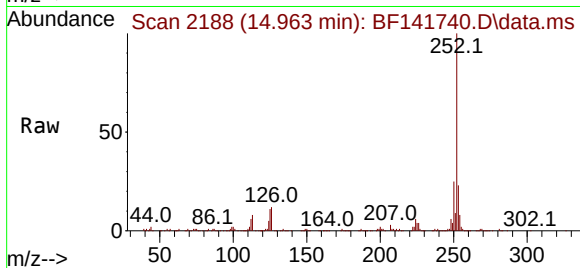
Tgt Ion:252 Resp: 194582

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 10.9 7.0 10.6#



#89

Benzo(k)fluoranthene

Concen: 5.437 ng m

RT: 14.980 min Scan# 2191

Delta R.T. -0.053 min

Lab File: BF141740.D

Acq: 24 Feb 2025 12:55

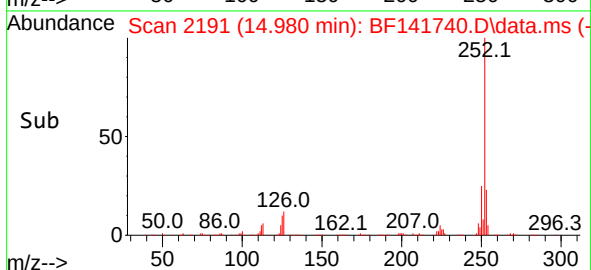
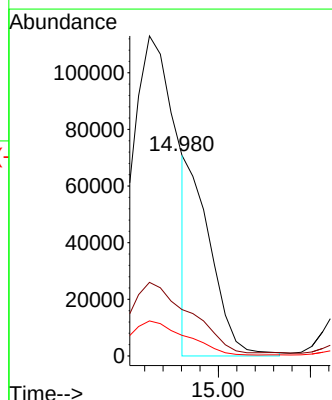
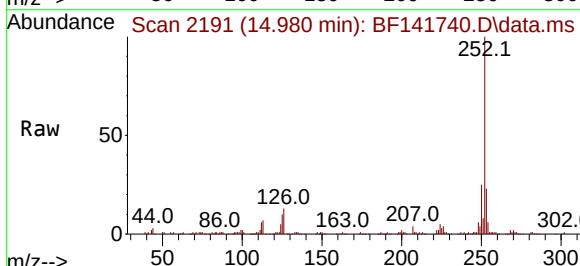
Tgt Ion:252 Resp: 61149

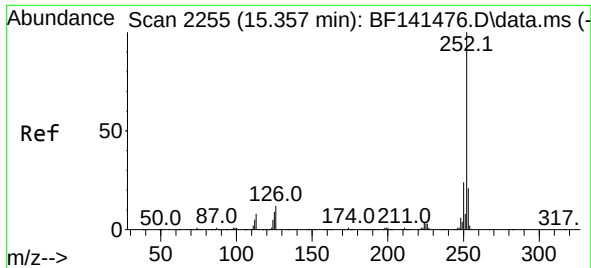
Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

125 10.3 7.4 11.0

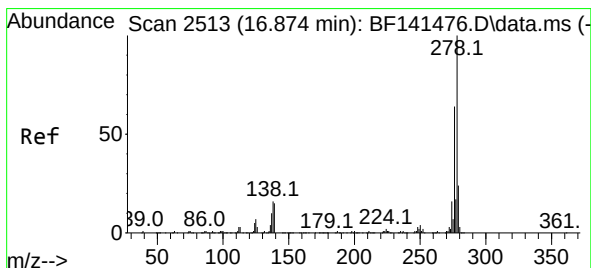
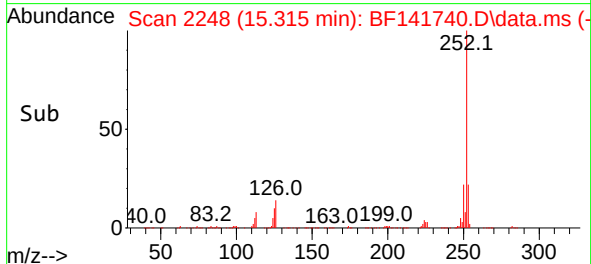
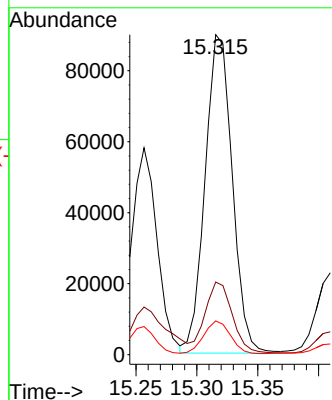
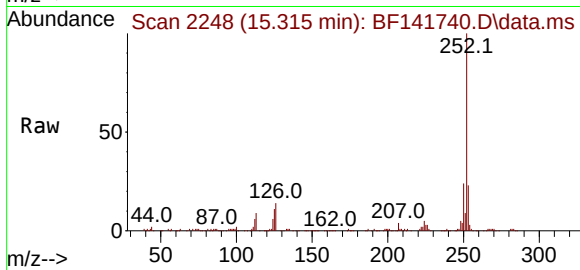




#90
Benzo(a)pyrene
Concen: 13.071 ng
RT: 15.315 min Scan# 21
Delta R.T. -0.047 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

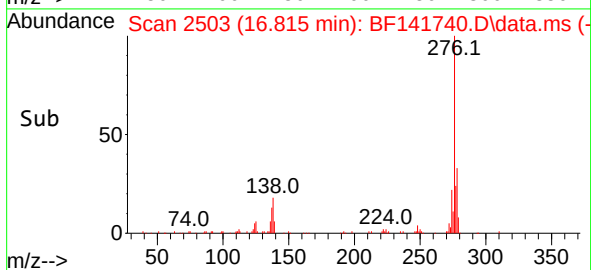
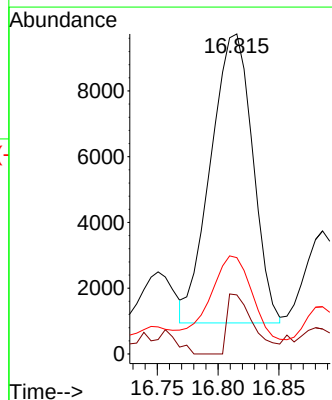
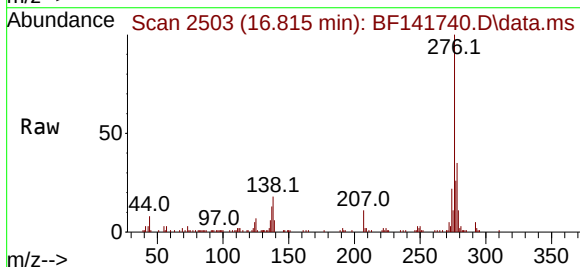
Instrument :
BNA_F
ClientSampleId :
TP7

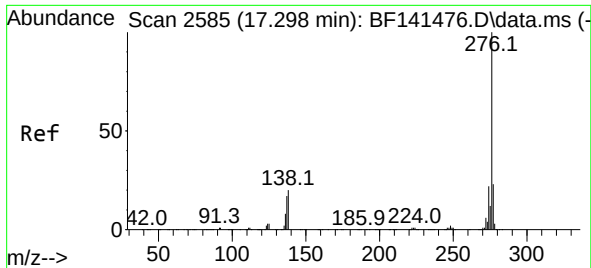
Tgt Ion:252 Resp: 139304
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 10.5 7.4 11.2



#91
Dibenzo(a,h)anthracene
Concen: 2.149 ng m
RT: 16.815 min Scan# 2503
Delta R.T. -0.076 min
Lab File: BF141740.D
Acq: 24 Feb 2025 12:55

Tgt Ion:278 Resp: 21109
Ion Ratio Lower Upper
278 100
139 18.4 11.8 17.6#
279 30.1 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 6.120 ng
 RT: 17.239 min Scan# 21
 Delta R.T. -0.076 min
 Lab File: BF141740.D
 Acq: 24 Feb 2025 12:55

Instrument :
 BNA_F
 ClientSampleId :
 TP7

Tgt Ion:	276	Resp:	62895
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.6	28.0
138	20.8	15.9	23.9

