

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021125\
 Data File : BF141568.D
 Acq On : 11 Feb 2025 18:01
 Operator : RC/JU
 Sample : Q1285-01DL 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL

Quant Time: Feb 11 18:22:37 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)

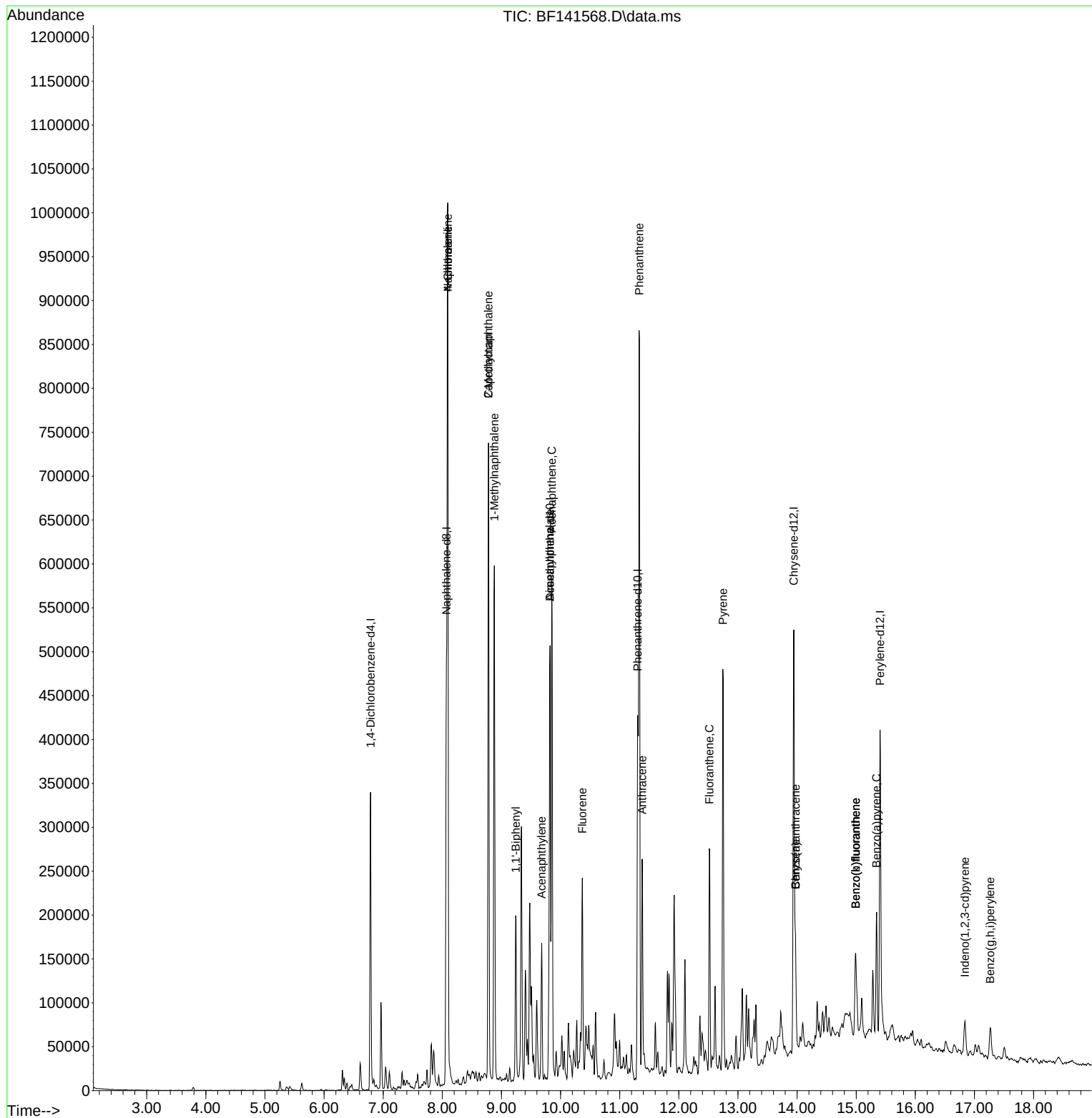
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.786	152	73262	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	283534	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	144692	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	212403	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	171943	20.000	ng	-0.02
86) Perylene-d12	15.404	264	199200	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	3069	0.657	ng	0.01
7) Phenol-d6	6.439	99	4248	0.719	ng	0.00
23) Nitrobenzene-d5	7.351	82	3235	0.595	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	739	0.508	ng	-0.01
45) 2-Fluorobiphenyl	9.139	172	5631	0.600	ng	-0.01
79) Terphenyl-d14	12.886	244	5948	0.584	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.092	128	624724	42.328	ng	100
33) 4-Chloroaniline	8.092	127	83763	16.255	ng	# 34
35) Caprolactam	8.780	113	6793	5.360	ng	# 1
37) 2-Methylnaphthalene	8.780	142	276935	28.835	ng	100
38) 1-Methylnaphthalene	8.880	142	225723	24.266	ng	97
46) 1,1'-Biphenyl	9.245	154	90597	8.076	ng	98
49) Acenaphthylene	9.680	152	61292	4.968	ng	# 95
50) Dimethylphthalate	9.822	163	23422	2.384	ng	# 1
52) Acenaphthene	9.851	154	170769	20.588	ng	99
58) Fluorene	10.369	166	104691	11.121	ng	97
71) Phenanthrene	11.333	178	472019	40.372	ng	99
72) Anthracene	11.380	178	146047	12.426	ng	99
75) Fluoranthene	12.516	202	139667	11.267	ng	100
78) Pyrene	12.745	202	274343	18.743	ng	99
81) Benzo(a)anthracene	13.974	228	65279	5.711	ng	97
83) Chrysene	13.974	228	65279	6.186	ng	100
87) Indeno(1,2,3-cd)pyrene	16.839	276	26517	2.154	ng	95
88) Benzo(b)fluoranthene	14.992	252	79668	5.956	ng	# 98
89) Benzo(k)fluoranthene	14.992	252	79668	6.975	ng	98
90) Benzo(a)pyrene	15.345	252	82036	7.580	ng	97
92) Benzo(g,h,i)perylene	17.268	276	28978	2.777	ng	98

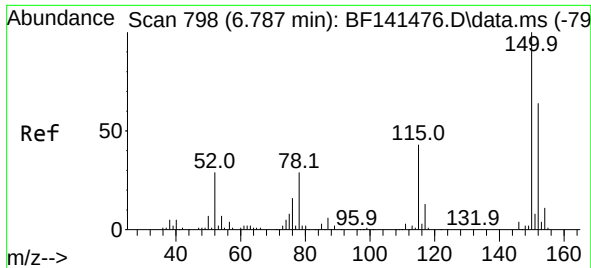
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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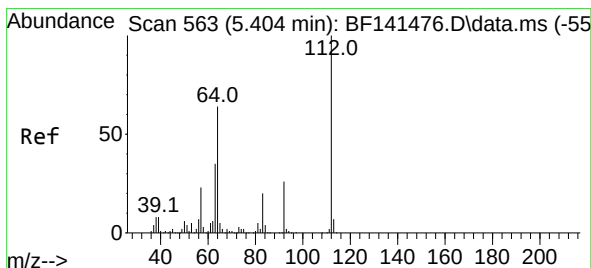
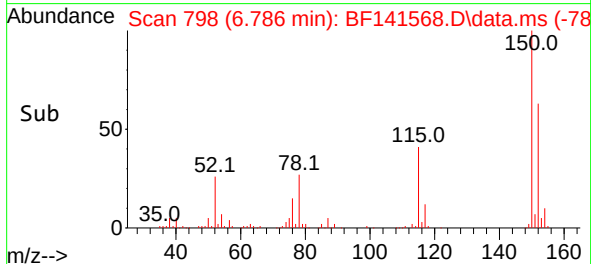
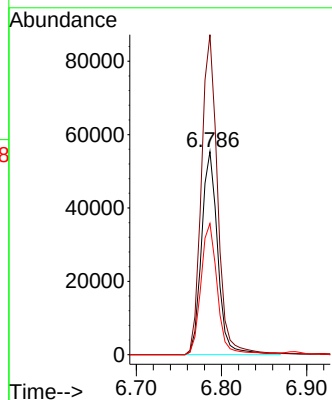
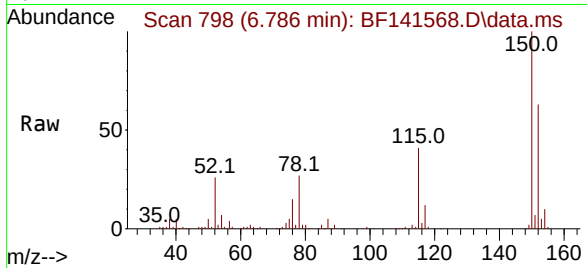




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.786 min Scan# 798
 Delta R.T. -0.006 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

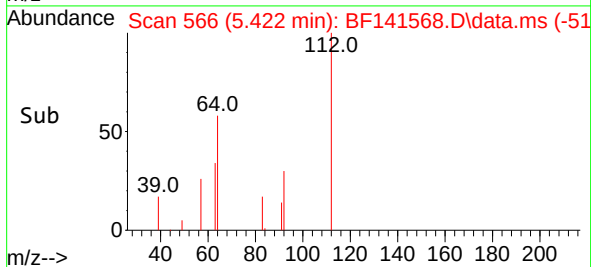
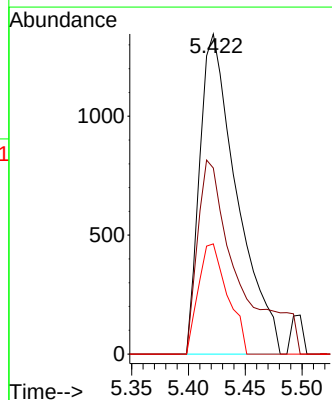
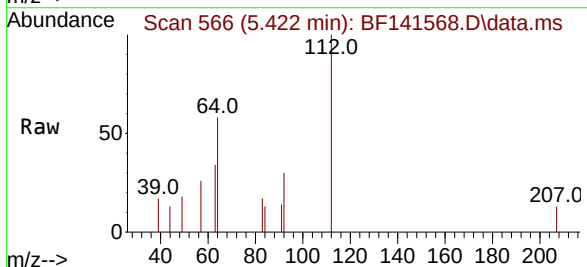
Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL

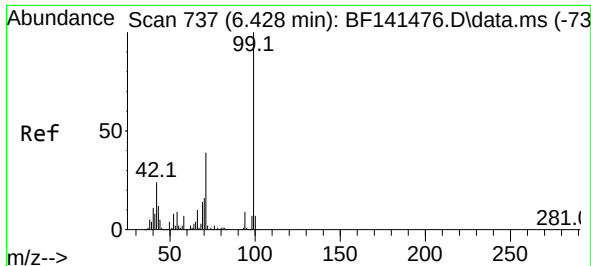
Tgt Ion:152 Resp: 73262
 Ion Ratio Lower Upper
 152 100
 150 157.7 125.0 187.4
 115 64.7 53.6 80.4



#5
 2-Fluorophenol
 Concen: 0.657 ng
 RT: 5.422 min Scan# 566
 Delta R.T. 0.012 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

Tgt Ion:112 Resp: 3069
 Ion Ratio Lower Upper
 112 100
 64 58.1 51.1 76.7
 63 34.4 28.4 42.6

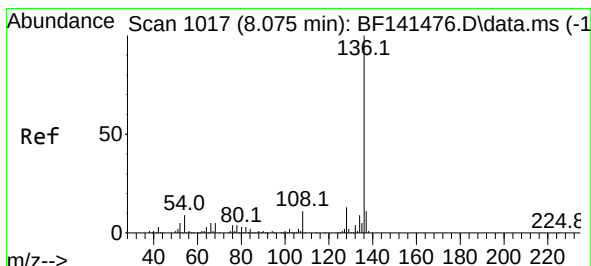
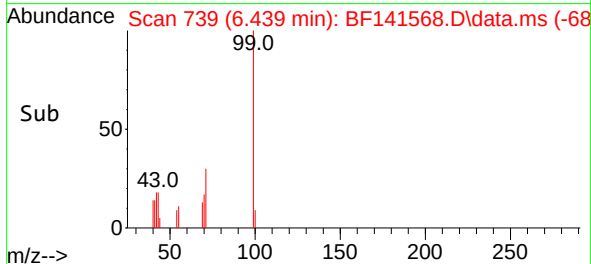
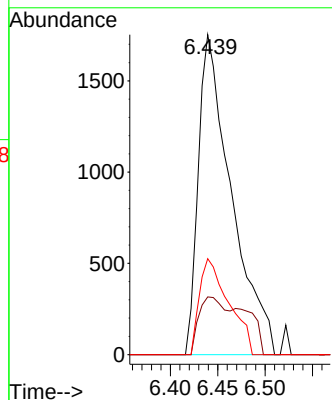
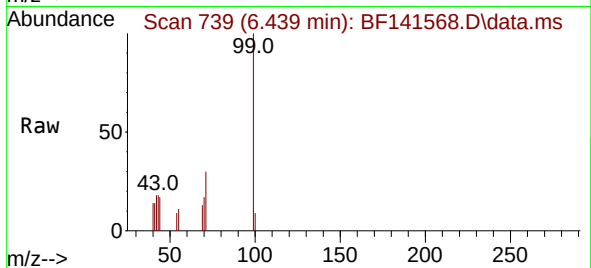




#7
Phenol-d6
Concen: 0.719 ng
RT: 6.439 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

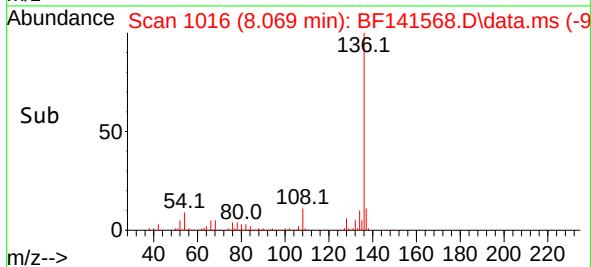
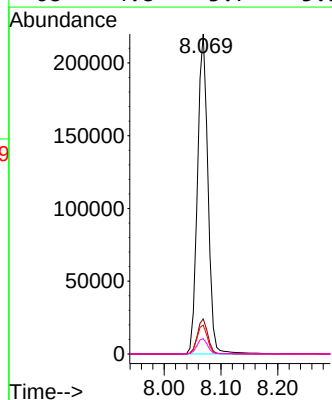
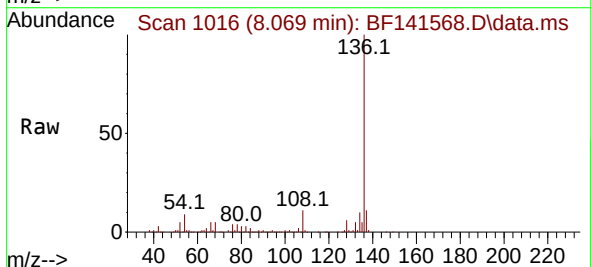
Instrument :
BNA_F
ClientSampleId :
72-11977DL

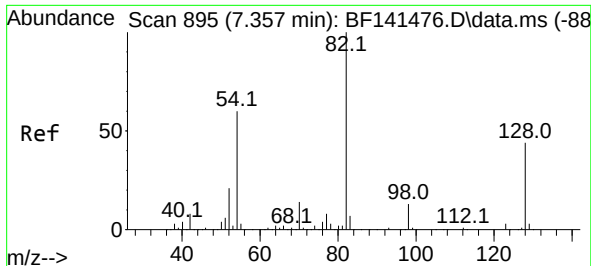
Tgt Ion: 99 Resp: 4248
Ion Ratio Lower Upper
99 100
42 18.0 19.1 28.7#
71 30.0 31.1 46.7#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion: 136 Resp: 283534
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.0 7.2 10.8
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 0.595 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

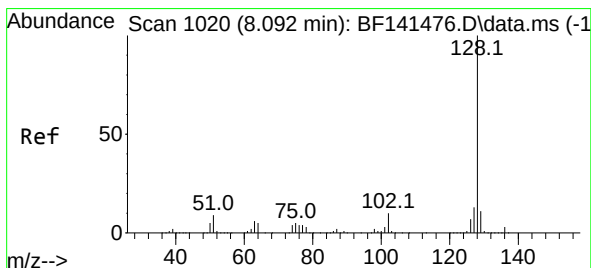
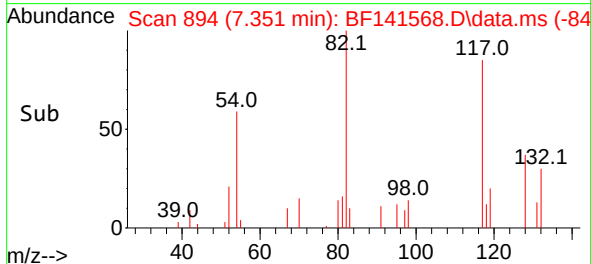
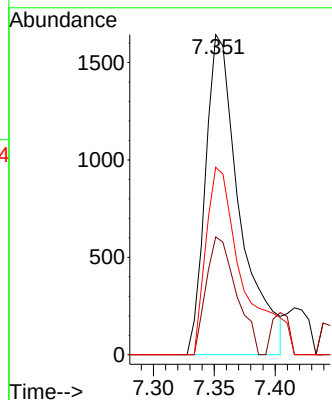
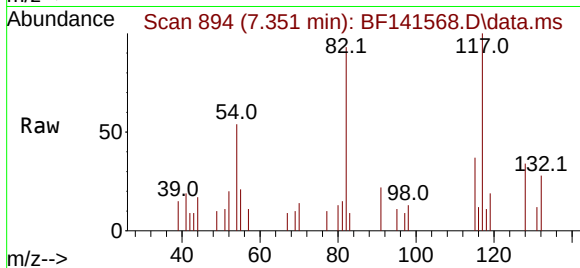
Tgt Ion: 82 Resp: 3235

Ion Ratio Lower Upper

82 100

128 36.8 34.8 52.2

54 58.6 48.2 72.4



#31

Naphthalene

Concen: 42.328 ng

RT: 8.092 min Scan# 1020

Delta R.T. -0.006 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

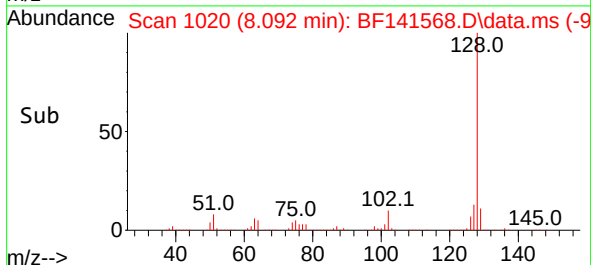
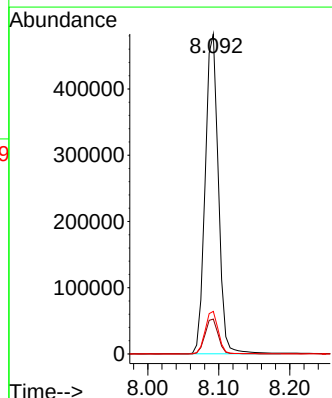
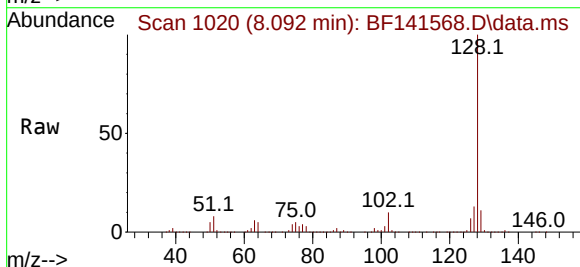
Tgt Ion:128 Resp: 624724

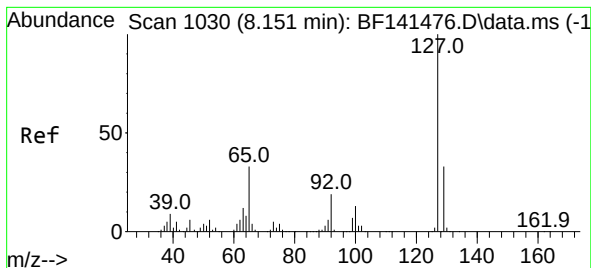
Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

127 13.3 10.7 16.1





#33

4-Chloroaniline

Concen: 16.255 ng

RT: 8.092 min Scan# 1137

Delta R.T. -0.065 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

Tgt Ion:127 Resp: 83763

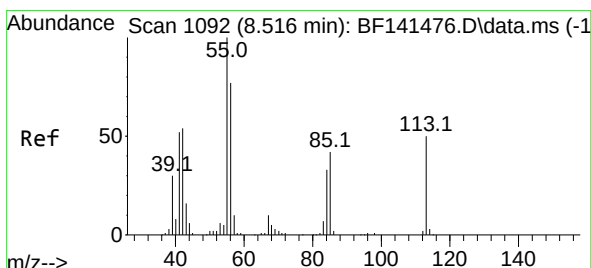
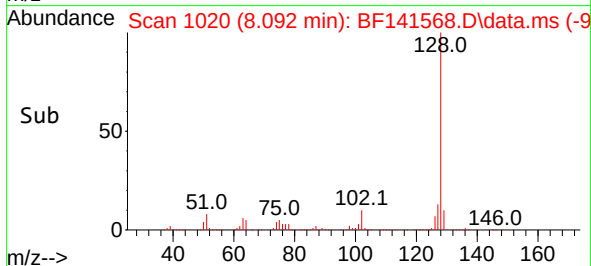
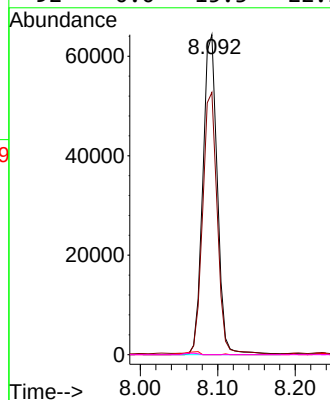
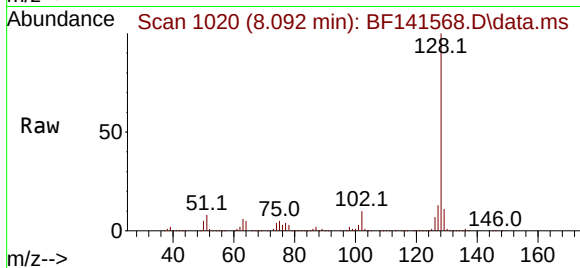
Ion Ratio Lower Upper

127 100

129 82.0 26.5 39.7#

65 0.0 26.4 39.6#

92 0.0 15.3 22.9#



#35

Caprolactam

Concen: 5.360 ng

RT: 8.780 min Scan# 1137

Delta R.T. 0.235 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

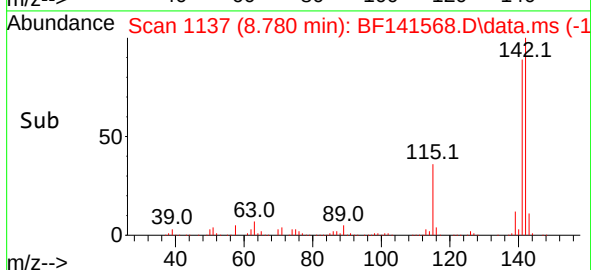
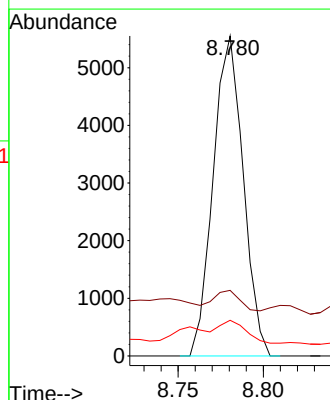
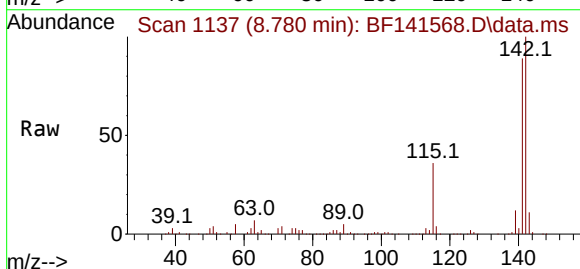
Tgt Ion:113 Resp: 6793

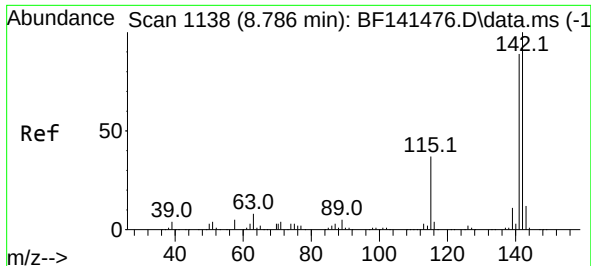
Ion Ratio Lower Upper

113 100

55 20.5 180.8 220.8#

56 11.1 133.6 173.6#

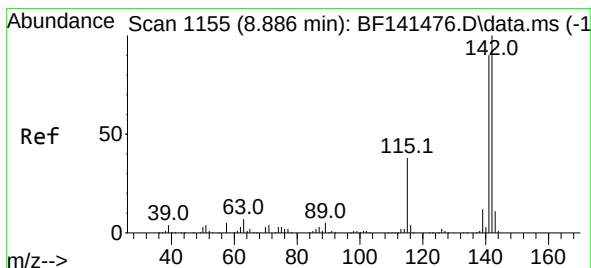
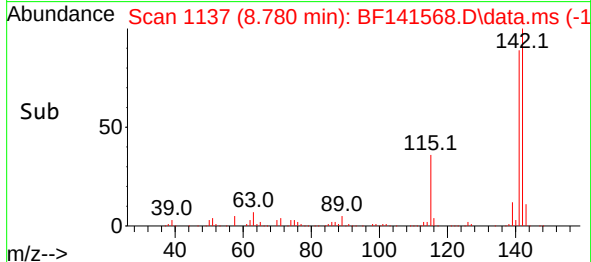
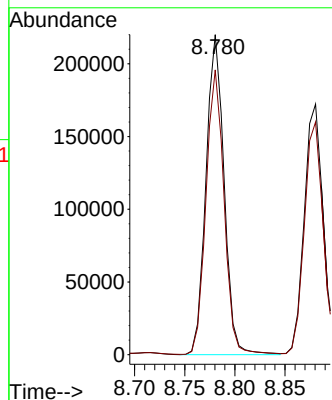
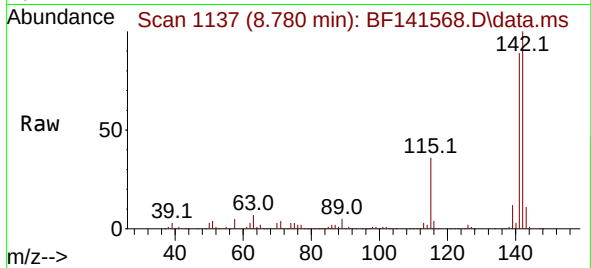




#37
2-Methylnaphthalene
Concen: 28.835 ng
RT: 8.780 min Scan# 1138
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

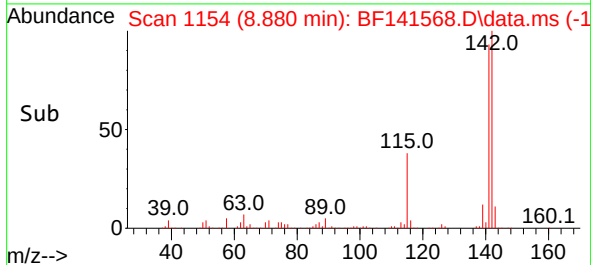
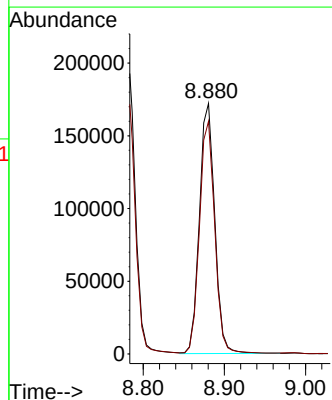
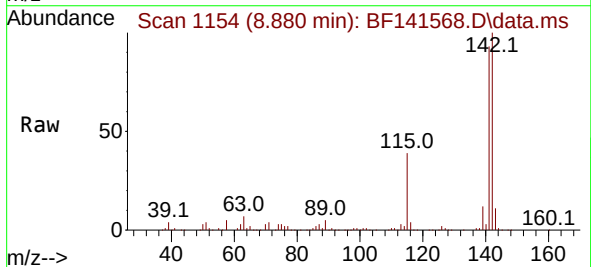
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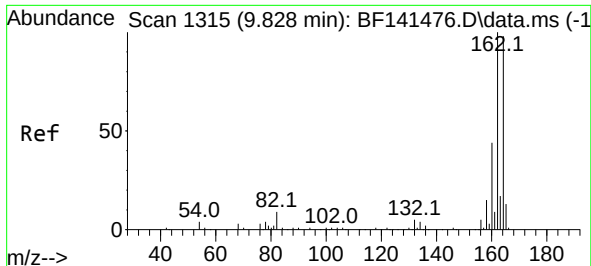
Tgt Ion:142 Resp: 276935
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8



#38
1-Methylnaphthalene
Concen: 24.266 ng
RT: 8.880 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:142 Resp: 225723
Ion Ratio Lower Upper
142 100
141 92.9 72.1 108.1

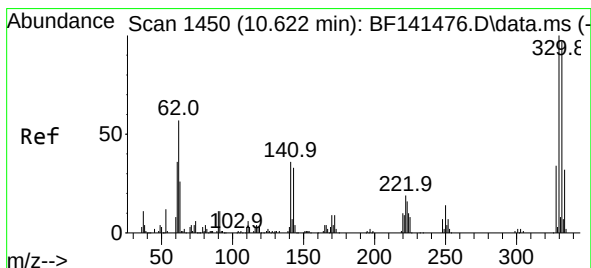
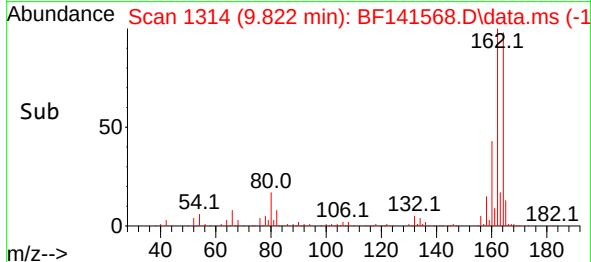
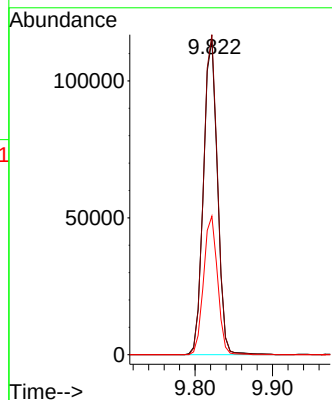
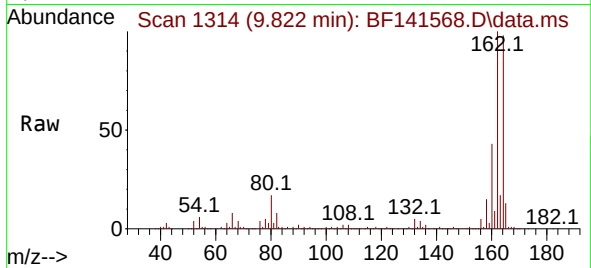




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

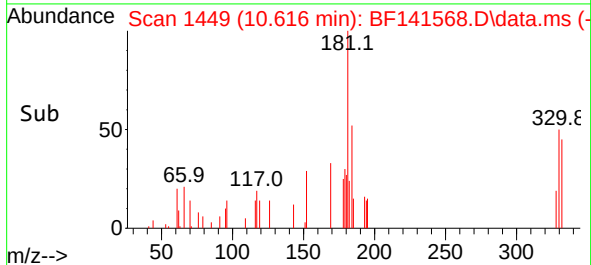
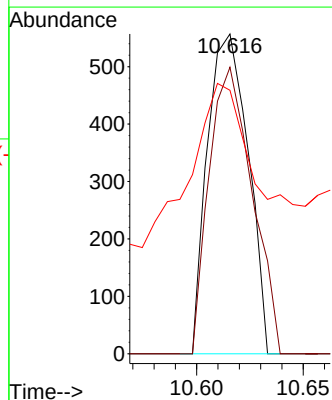
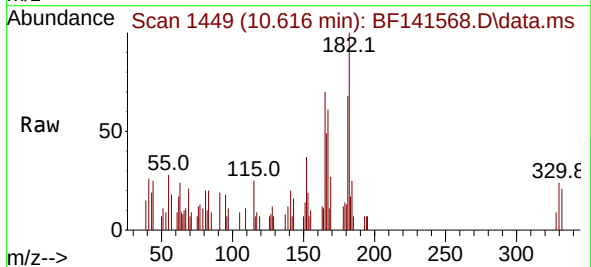
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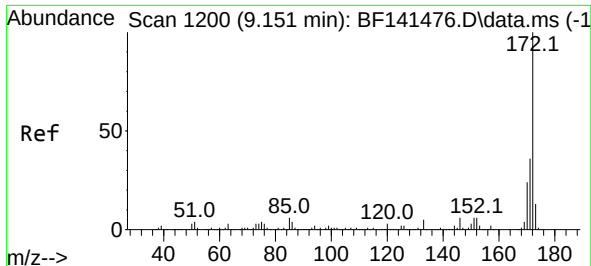
Tgt Ion:164 Resp: 144692
Ion Ratio Lower Upper
164 100
162 101.6 81.3 121.9
160 44.0 35.9 53.9



#42
2,4,6-Tribromophenol
Concen: 0.508 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:330 Resp: 739
Ion Ratio Lower Upper
330 100
332 95.0 78.5 117.7
141 82.9 31.0 46.4#

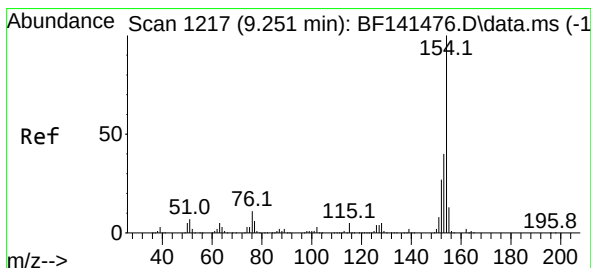
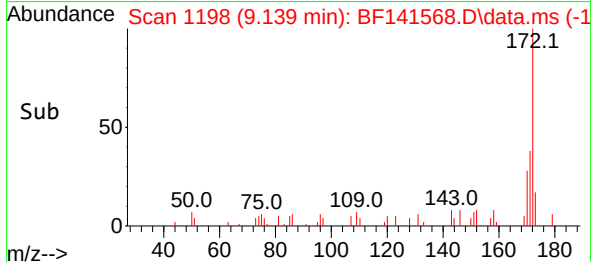
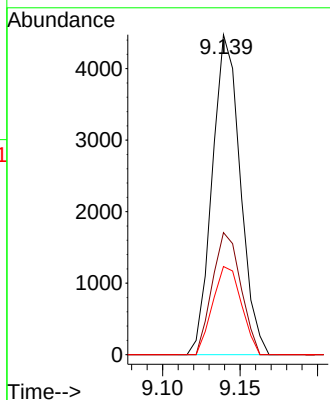
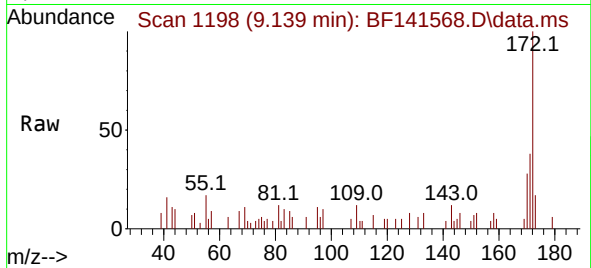




#45
2-Fluorobiphenyl
Concen: 0.600 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

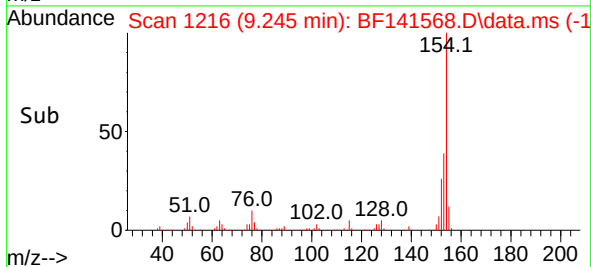
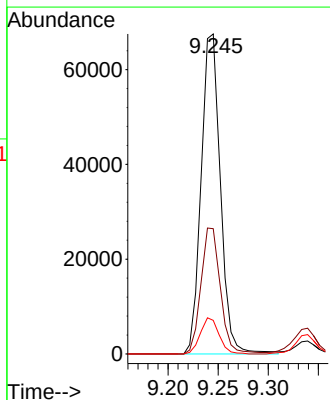
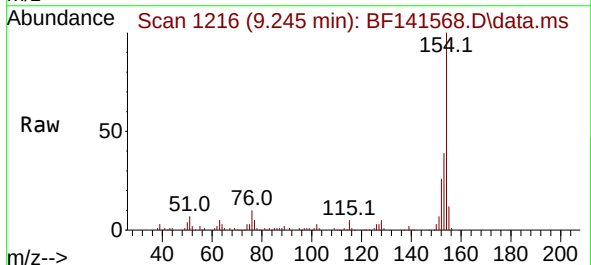
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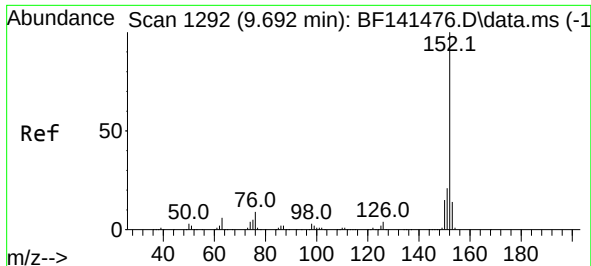
Tgt Ion:172 Resp: 5631
Ion Ratio Lower Upper
172 100
171 38.1 28.7 43.1
170 27.5 18.9 28.3



#46
1,1'-Biphenyl
Concen: 8.076 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:154 Resp: 90597
Ion Ratio Lower Upper
154 100
153 39.2 20.4 60.4
76 10.5 0.0 30.8





#49

Acenaphthylene

Concen: 4.968 ng

RT: 9.680 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

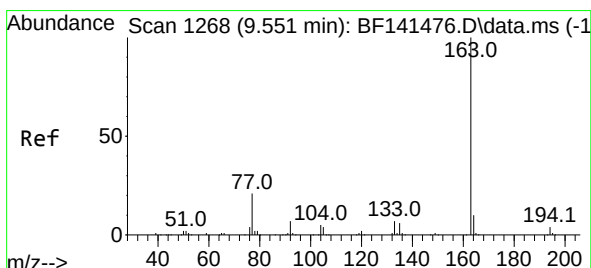
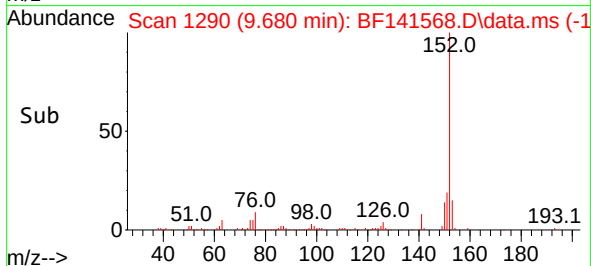
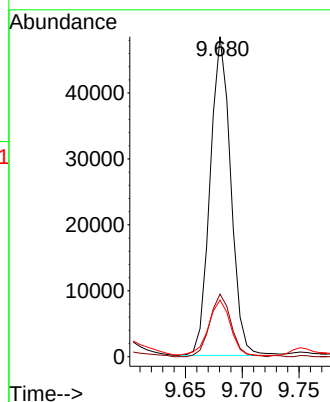
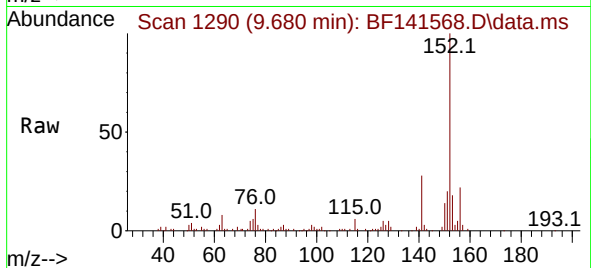
Tgt Ion:152 Resp: 61292

Ion Ratio Lower Upper

152 100

151 19.6 16.4 24.6

153 17.7 10.9 16.3#



#50

Dimethylphthalate

Concen: 2.384 ng

RT: 9.822 min Scan# 1314

Delta R.T. 0.259 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

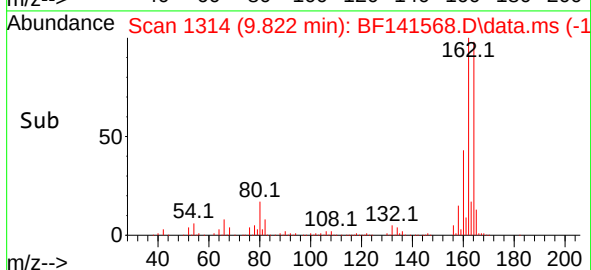
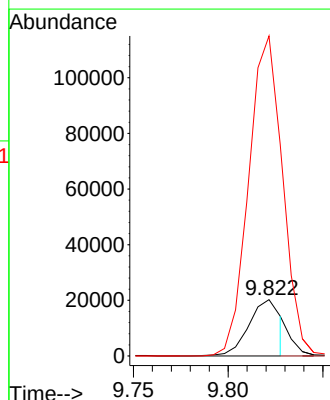
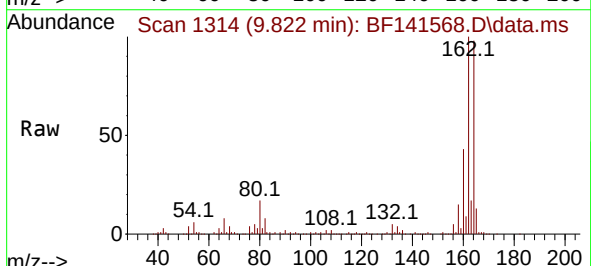
Tgt Ion:163 Resp: 23422

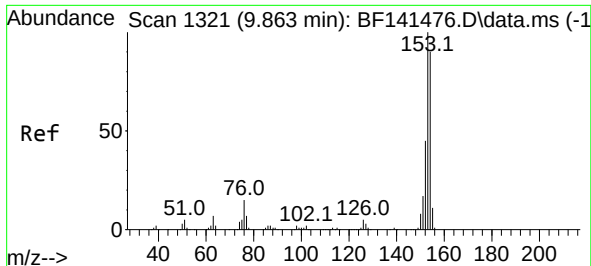
Ion Ratio Lower Upper

163 100

194 0.0 3.0 4.4#

164 567.4 7.9 11.9#

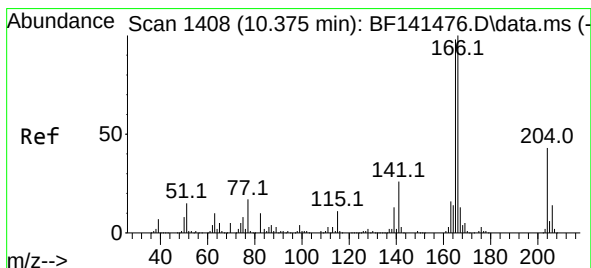
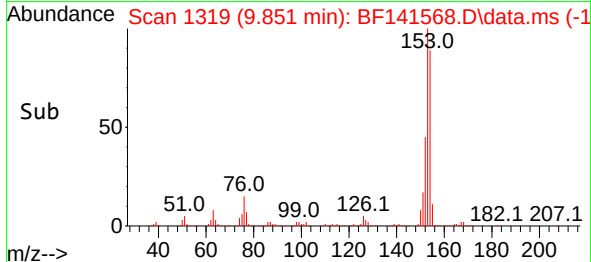
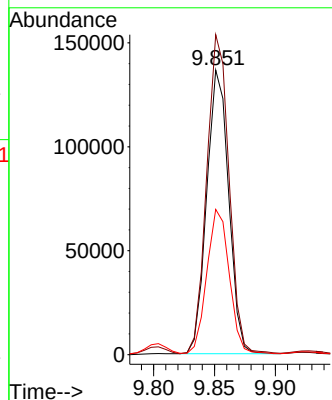
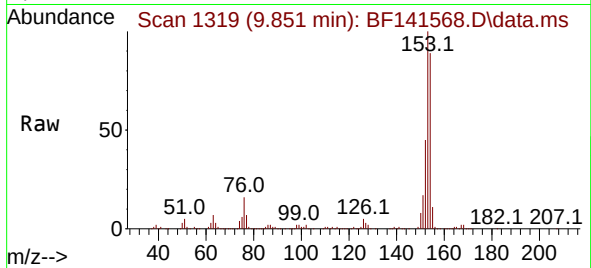




#52
Acenaphthene
Concen: 20.588 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

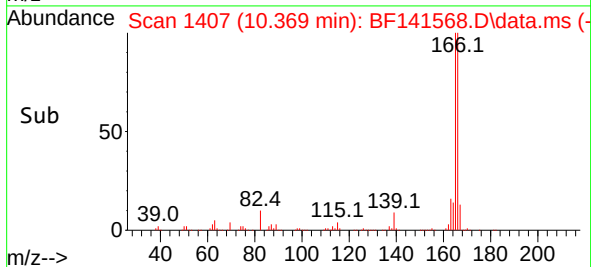
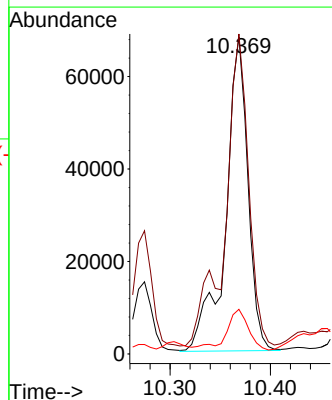
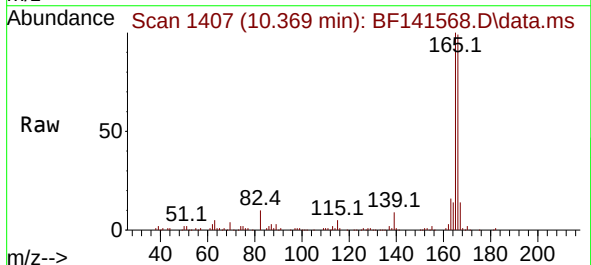
Instrument :
BNA_F
ClientSampleId :
72-11977DL

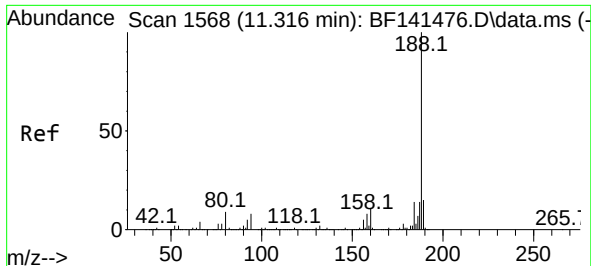
Tgt Ion:154 Resp: 170769
Ion Ratio Lower Upper
154 100
153 112.4 89.2 133.8
152 51.0 39.8 59.8



#58
Fluorene
Concen: 11.121 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:166 Resp: 104691
Ion Ratio Lower Upper
166 100
165 100.9 78.2 117.2
167 14.1 10.7 16.1

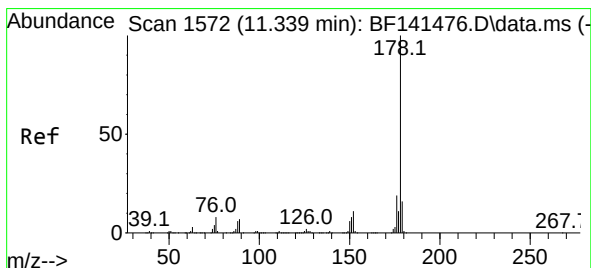
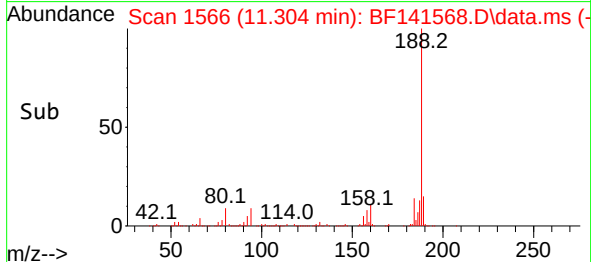
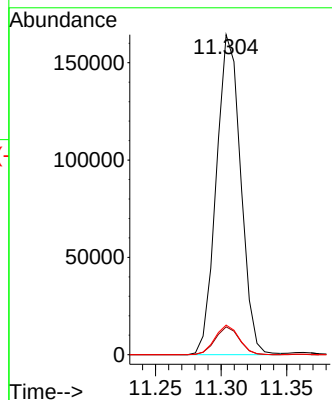
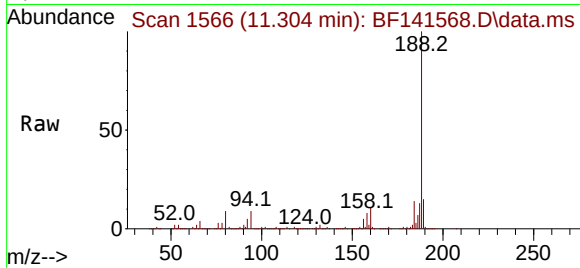




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

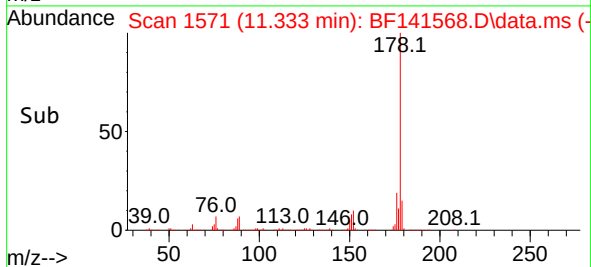
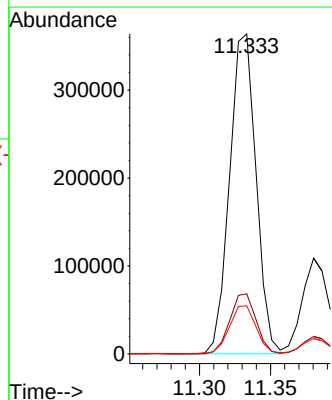
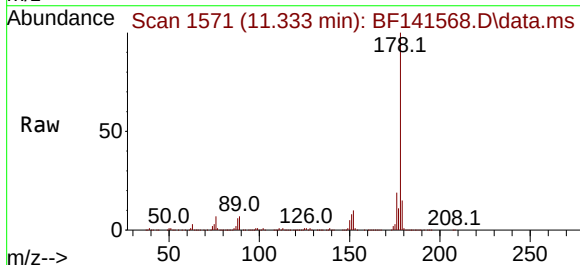
Instrument :
BNA_F
ClientSampleId :
72-11977DL

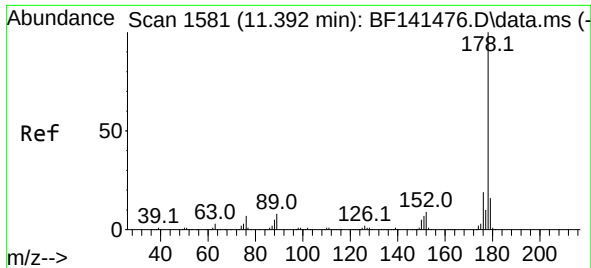
Tgt Ion:188 Resp: 212403
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 9.3 7.3 10.9



#71
Phenanthrene
Concen: 40.372 ng
RT: 11.333 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:178 Resp: 472019
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.1 12.4 18.6

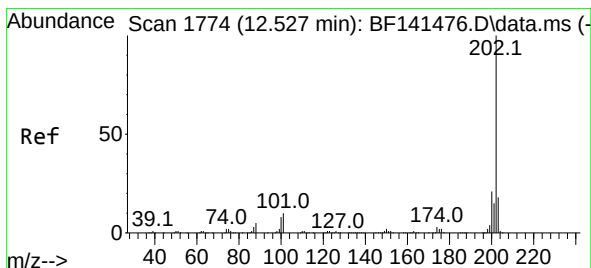
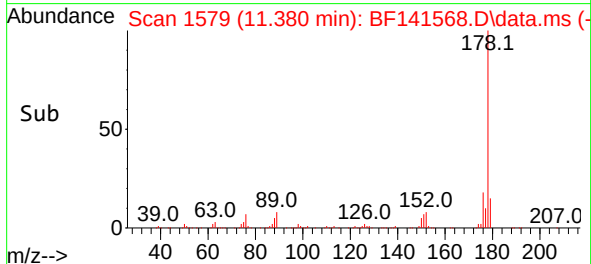
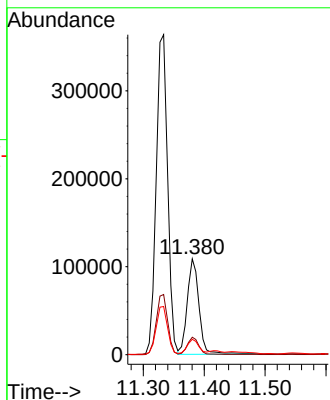
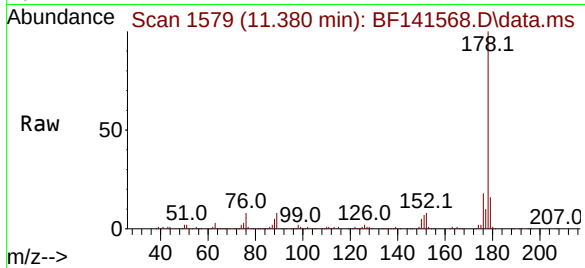




#72
 Anthracene
 Concen: 12.426 ng
 RT: 11.380 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

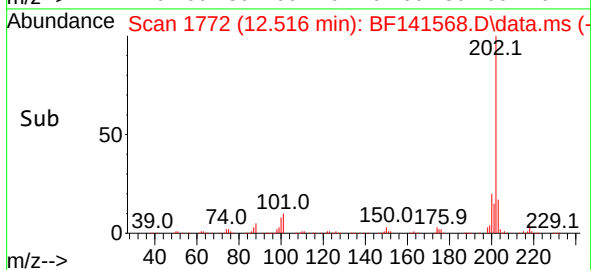
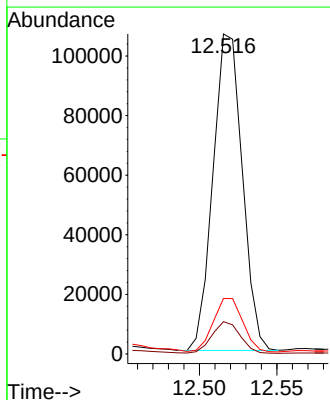
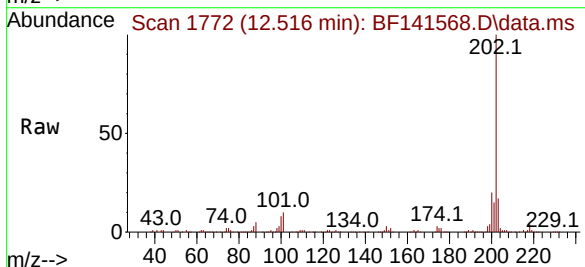
Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL

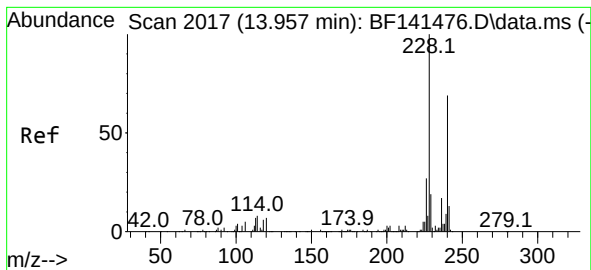
Tgt Ion:178 Resp: 146047
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.8 22.2
 179 16.1 12.4 18.6



#75
 Fluoranthene
 Concen: 11.267 ng
 RT: 12.516 min Scan# 1772
 Delta R.T. -0.018 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

Tgt Ion:202 Resp: 139667
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 30.2
 203 17.4 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 20

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

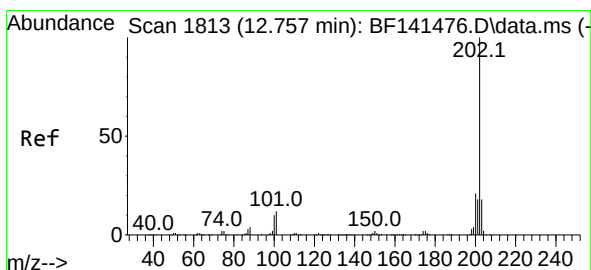
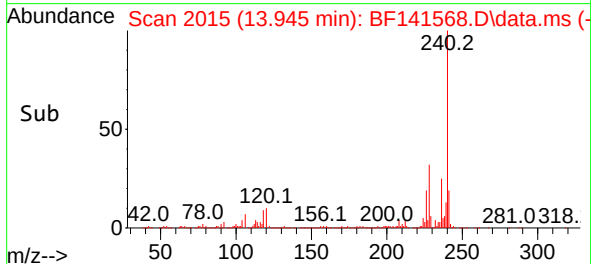
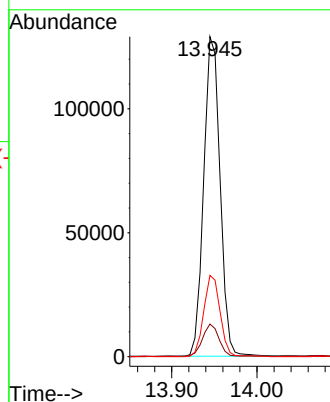
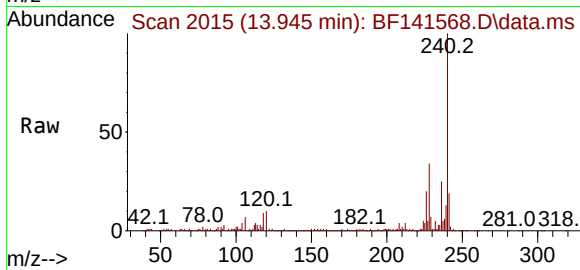
Tgt Ion:240 Resp: 171943

Ion Ratio Lower Upper

240 100

120 10.2 8.0 12.0

236 25.4 19.8 29.8



#78

Pyrene

Concen: 18.743 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

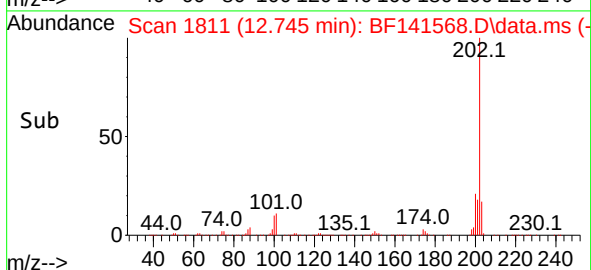
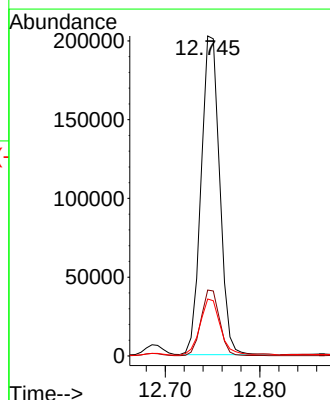
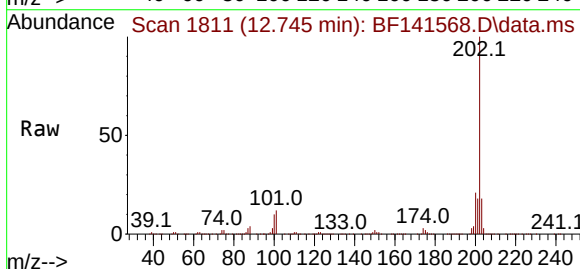
Tgt Ion:202 Resp: 274343

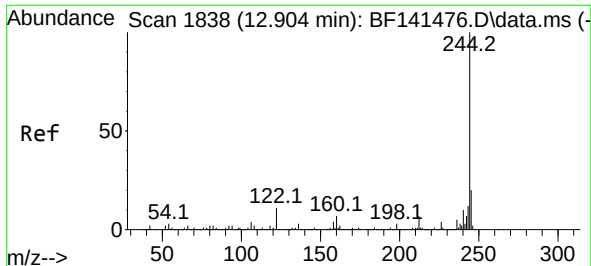
Ion Ratio Lower Upper

202 100

200 20.6 17.0 25.4

203 17.8 14.3 21.5

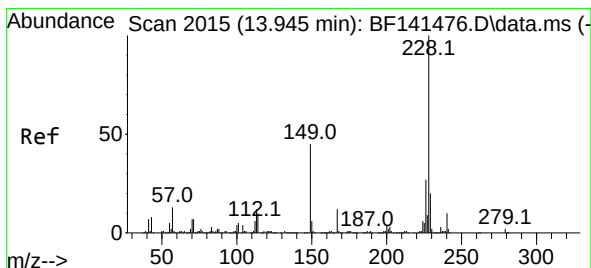
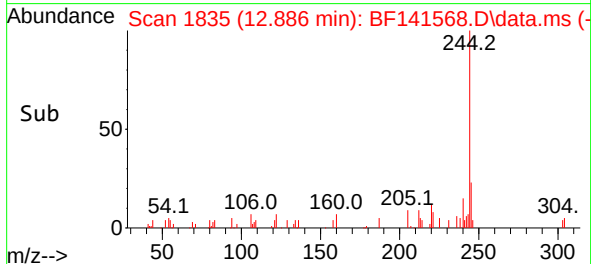
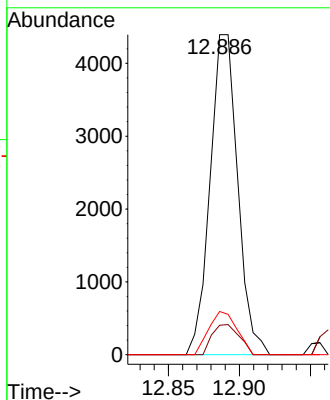
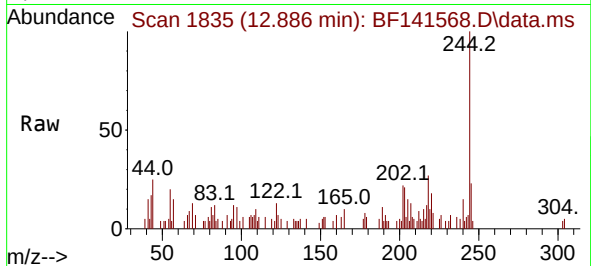




#79
 Terphenyl-d14
 Concen: 0.584 ng
 RT: 12.886 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

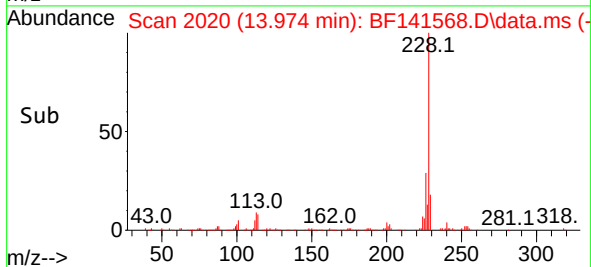
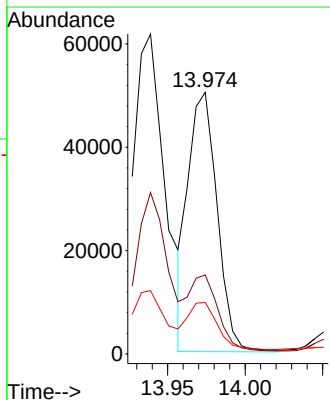
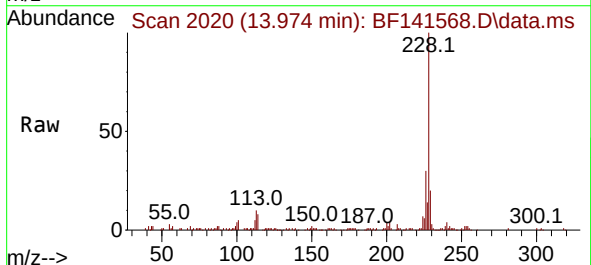
Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL

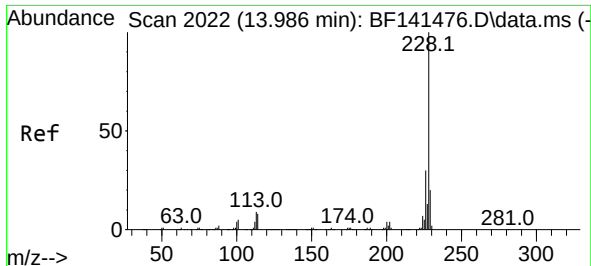
Tgt Ion:244 Resp: 5948
 Ion Ratio Lower Upper
 244 100
 212 9.2 5.6 8.4#
 122 13.5 8.4 12.6#



#81
 Benzo(a)anthracene
 Concen: 5.711 ng
 RT: 13.974 min Scan# 2020
 Delta R.T. 0.024 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

Tgt Ion:228 Resp: 65279
 Ion Ratio Lower Upper
 228 100
 226 30.2 21.8 32.8
 229 19.7 15.8 23.6

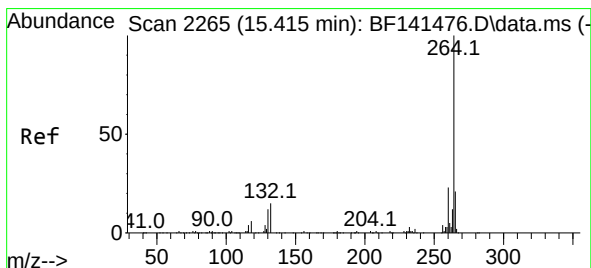
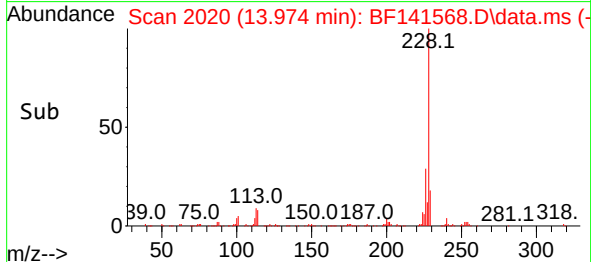
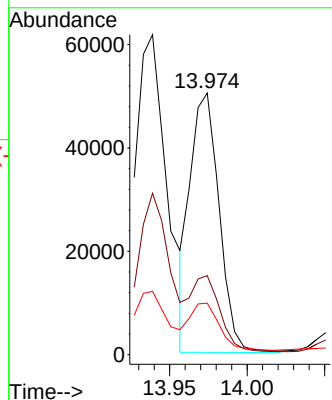
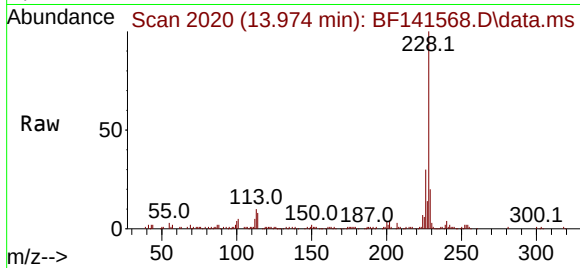




#83
Chrysene
Concen: 6.186 ng
RT: 13.974 min Scan# 20
Delta R.T. -0.018 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

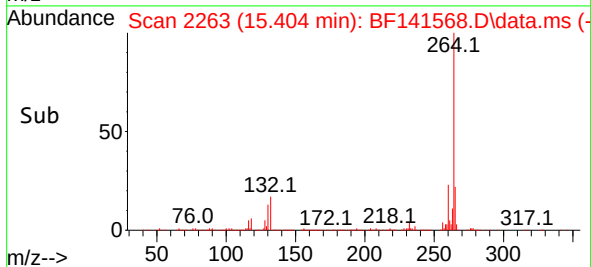
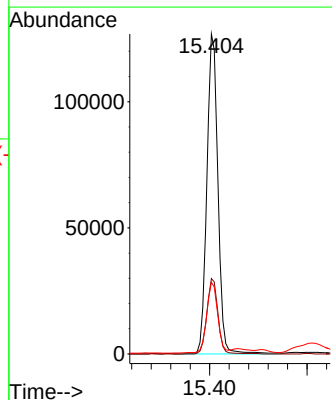
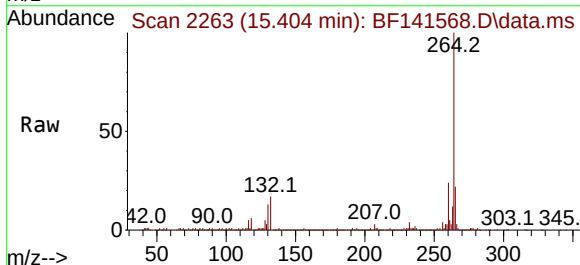
Instrument :
BNA_F
ClientSampleId :
72-11977DL

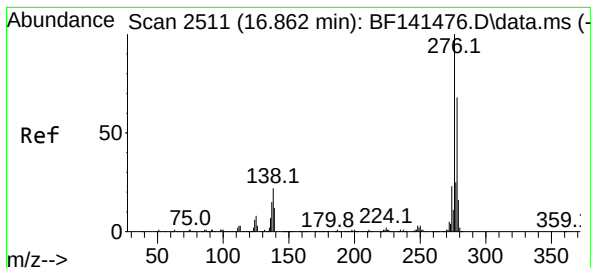
Tgt Ion:228 Resp: 65279
Ion Ratio Lower Upper
228 100
226 30.2 24.0 36.0
229 19.7 15.7 23.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.012 min
Lab File: BF141568.D
Acq: 11 Feb 2025 18:01

Tgt Ion:264 Resp: 199200
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 22.4 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.154 ng

RT: 16.839 min Scan# 2150

Delta R.T. -0.035 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

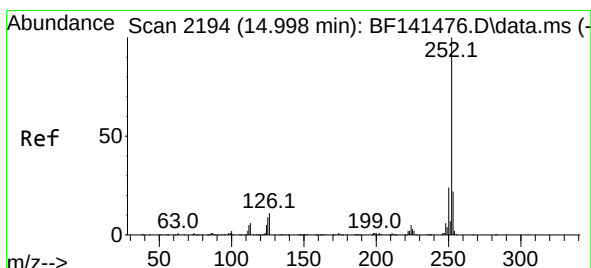
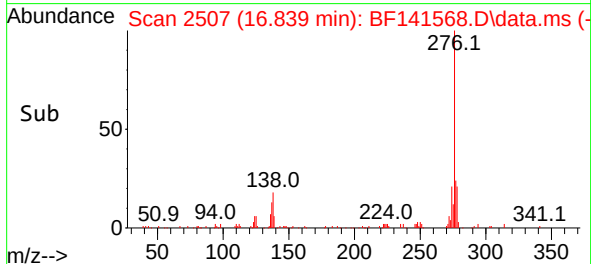
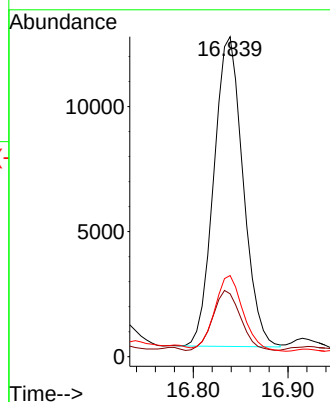
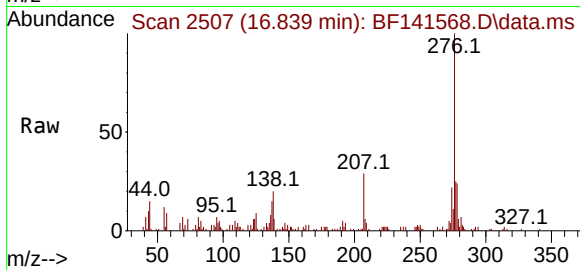
Tgt Ion:276 Resp: 26517

Ion Ratio Lower Upper

276 100

138 19.3 18.0 27.0

277 23.9 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 5.956 ng

RT: 14.992 min Scan# 2193

Delta R.T. -0.012 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

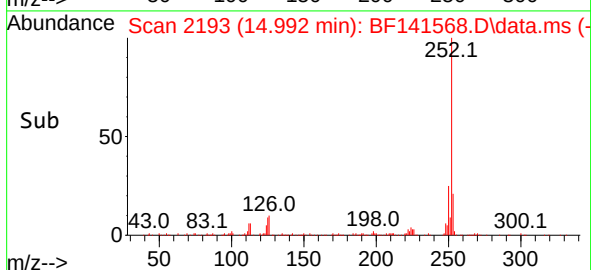
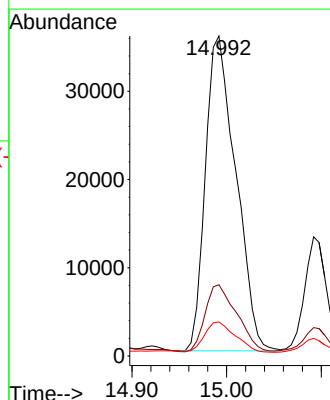
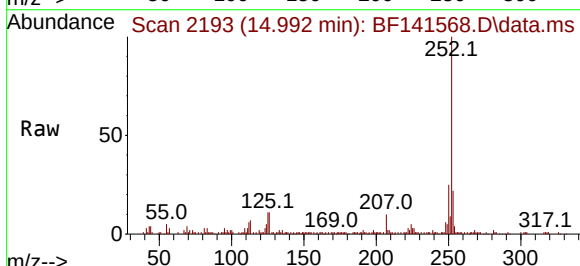
Tgt Ion:252 Resp: 79668

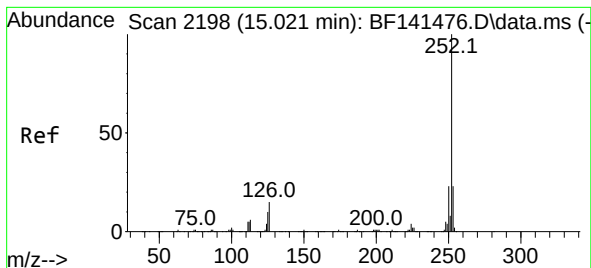
Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 10.6 7.0 10.6#





#89

Benzo(k)fluoranthene

Concen: 6.975 ng

RT: 14.992 min Scan# 2193

Delta R.T. -0.041 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

72-11977DL

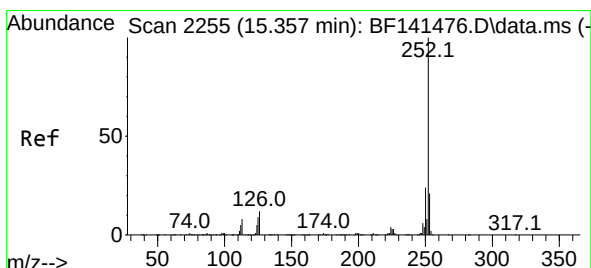
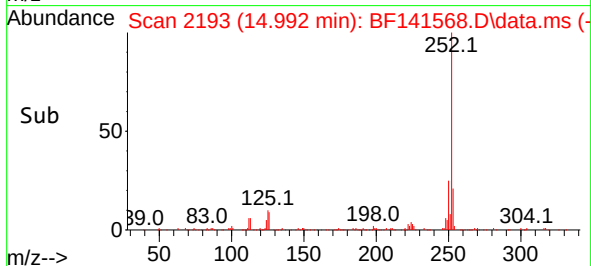
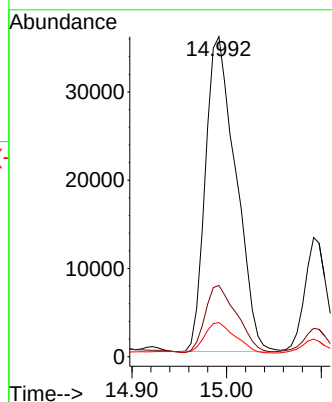
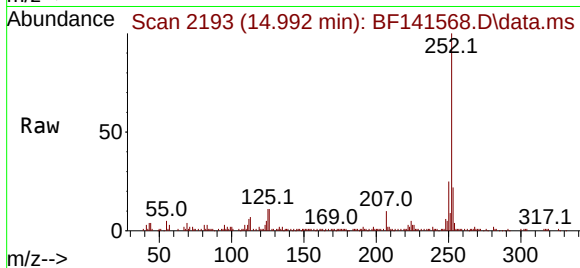
Tgt Ion:252 Resp: 79668

Ion Ratio Lower Upper

252 100

253 22.2 18.0 27.0

125 10.6 7.4 11.0



#90

Benzo(a)pyrene

Concen: 7.580 ng

RT: 15.345 min Scan# 2253

Delta R.T. -0.018 min

Lab File: BF141568.D

Acq: 11 Feb 2025 18:01

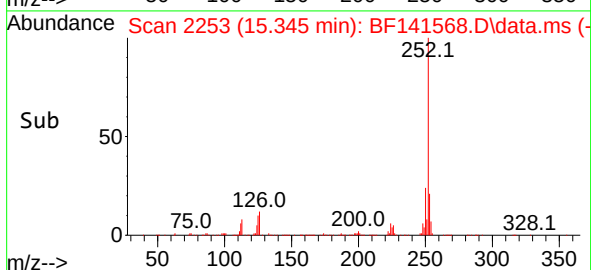
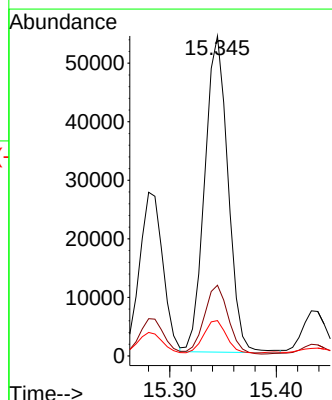
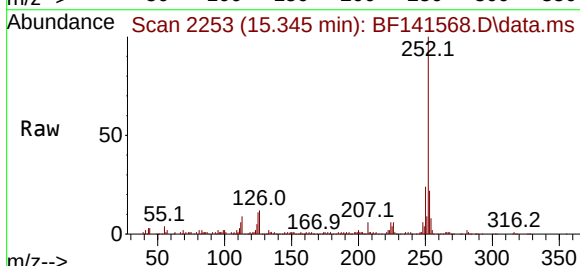
Tgt Ion:252 Resp: 82036

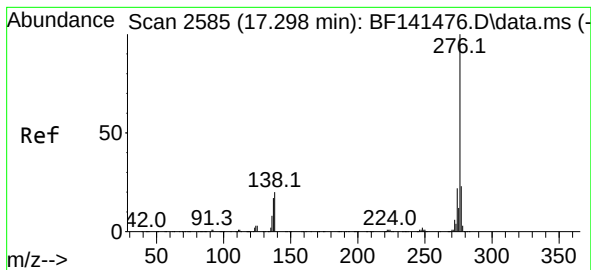
Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

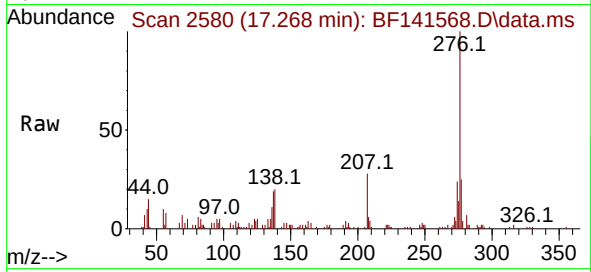
125 11.1 7.4 11.2





#92
 Benzo(g,h,i)perylene
 Concen: 2.777 ng
 RT: 17.268 min Scan# 21
 Delta R.T. -0.047 min
 Lab File: BF141568.D
 Acq: 11 Feb 2025 18:01

Instrument :
 BNA_F
 ClientSampleId :
 72-11977DL



Tgt Ion:	276	Resp:	28978
Ion Ratio	Lower	Upper	
276	100		
277	25.0	18.6	28.0
138	20.4	15.9	23.9

