

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120123\
 Data File : BF136370.D
 Acq On : 02 Dec 2023 09:56
 Operator : CG\JU
 Sample : 05577-01DL 20X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 03 07:24:44 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

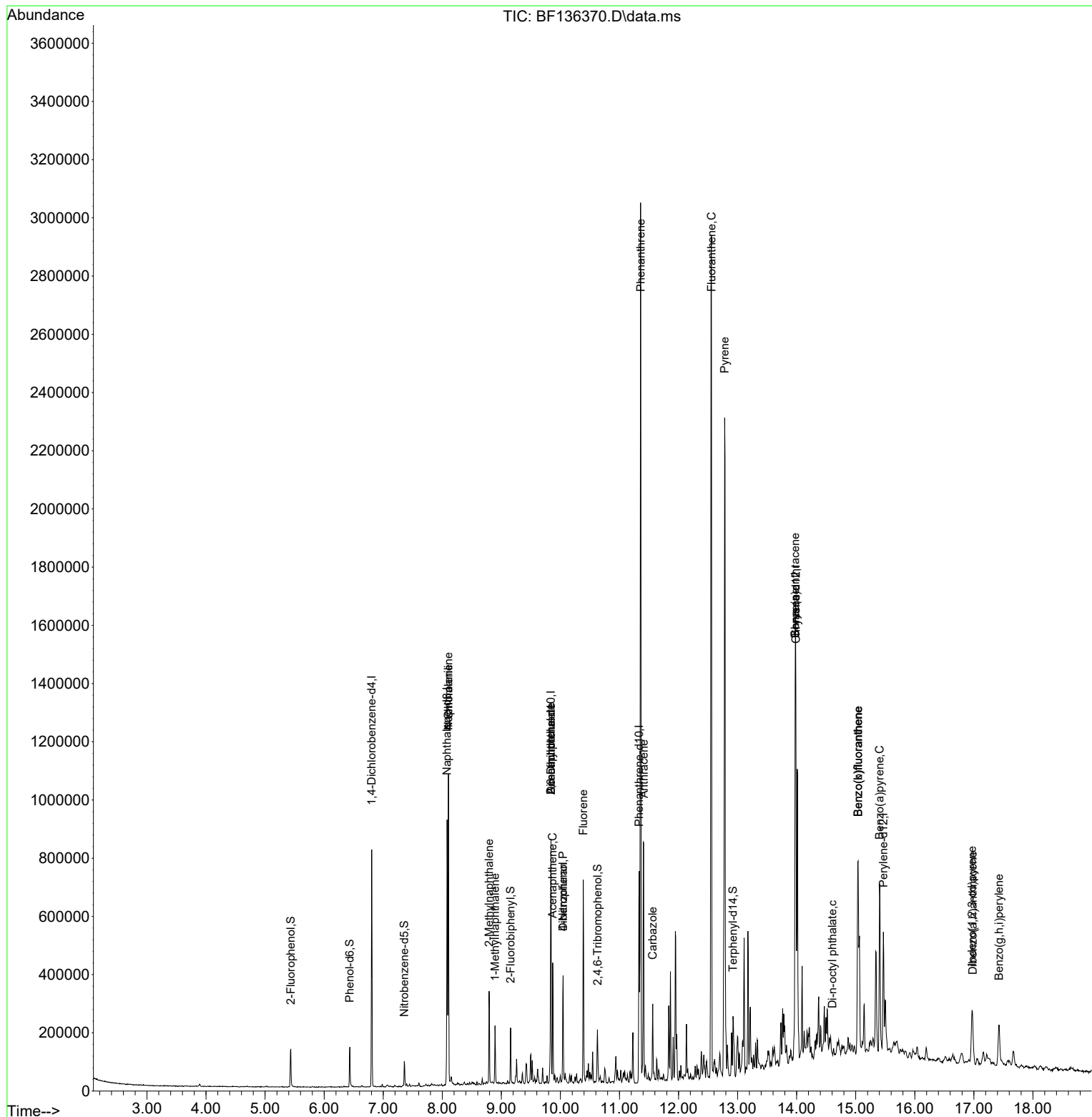
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	114655	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	383861	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	156696	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	279721	20.000	ng	0.00
76) Chrysene-d12	13.986	240	241761	20.000	ng	# 0.00
86) Perylene-d12	15.468	264	188228	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	41940	5.091	ng	0.00
7) Phenol-d6	6.434	99	47732	4.634	ng	-0.01
23) Nitrobenzene-d5	7.357	82	27646	3.806	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	9113	4.757	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	54586	4.450	ng	-0.01
79) Terphenyl-d14	12.922	244	62238	2.969	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	414617	19.217	ng	96
33) 4-Chloroaniline	8.104	127	55944	7.628	ng	# 33
37) 2-Methylnaphthalene	8.792	142	87552	6.469	ng	92
38) 1-Methylnaphthalene	8.892	142	48199	3.651	ng	88
50) Dimethylphthalate	9.839	163	31271	2.640	ng	# 1
51) 2,6-Dinitrotoluene	9.839	165	22042	9.110	ng	# 25
52) Acenaphthene	9.869	154	82978	8.574	ng	88
55) Dibenzofuran	10.045	168	140142	9.732	ng	97
56) 4-Nitrophenol	10.045	139	52744	28.927	ng	# 4
58) Fluorene	10.386	166	179868	15.924	ng	93
71) Phenanthrene	11.357	178	1156067	73.534	ng	98
72) Anthracene	11.410	178	333325	21.142	ng	97
73) Carbazole	11.563	167	98508	7.346	ng	96
75) Fluoranthene	12.557	202	1276195	79.962	ng	97
78) Pyrene	12.780	202	1034267	39.063	ng	96
81) Benzo(a)anthracene	13.974	228	532821	29.672	ng	98
83) Chrysene	13.974	228	532821	30.731	ng	94
85) Di-n-octyl phthalate	14.604	149	294	5.179	ng	# 1
87) Indeno(1,2,3-cd)pyrene	16.968	276	136947	11.869	ng	97
88) Benzo(b)fluoranthene	15.039	252	571860	43.304	ng	95
89) Benzo(k)fluoranthene	15.039	252	571860	45.594	ng	94
90) Benzo(a)pyrene	15.404	252	288599	26.733	ng	93
91) Dibenzo(a,h)anthracene	16.980	278	31770	5.368	ng	# 85
92) Benzo(g,h,i)perylene	17.427	276	122499	12.283	ng	97

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

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Instrument :
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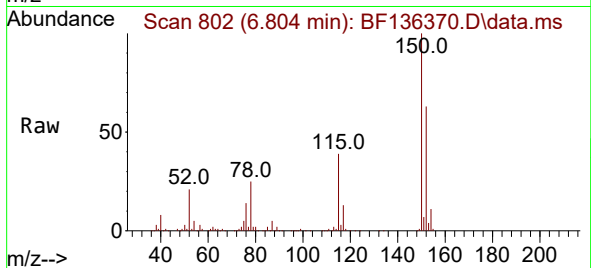
Quant Time: Dec 03 07:24:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
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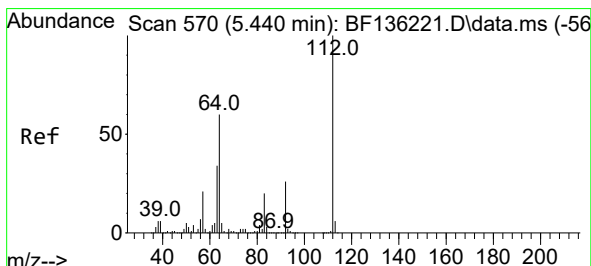
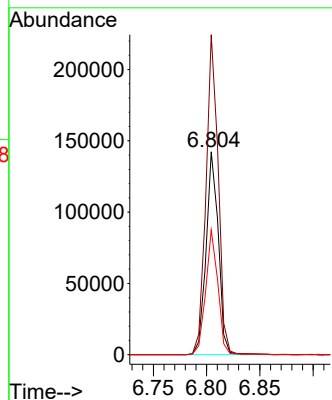
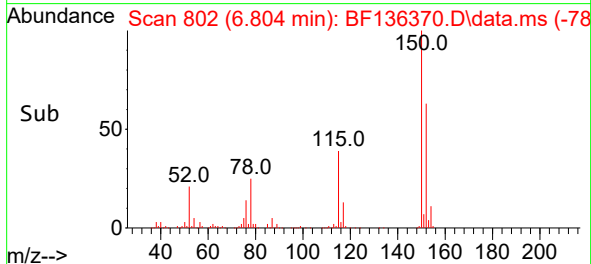


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Instrument :
BNA_F
ClientSampleId :

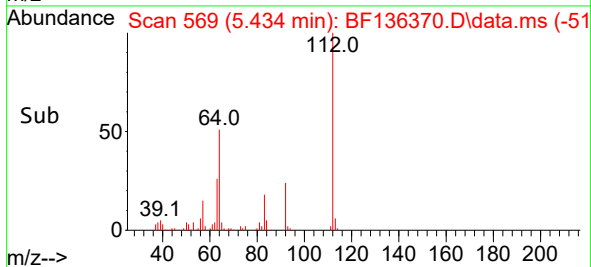
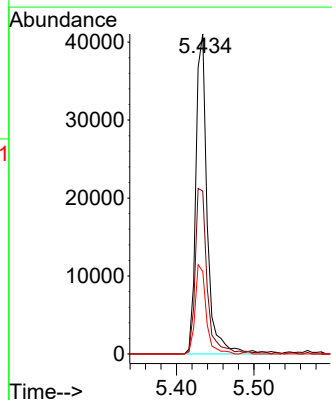
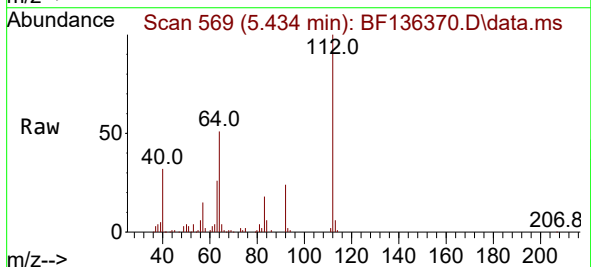


Tgt Ion:152 Resp: 114655
Ion Ratio Lower Upper
152 100
150 157.8 137.8 206.8
115 61.5 52.7 79.1



#5
2-Fluorophenol
Concen: 5.091 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:112 Resp: 41940
Ion Ratio Lower Upper
112 100
64 50.9 48.2 72.4
63 25.8 27.0 40.6#

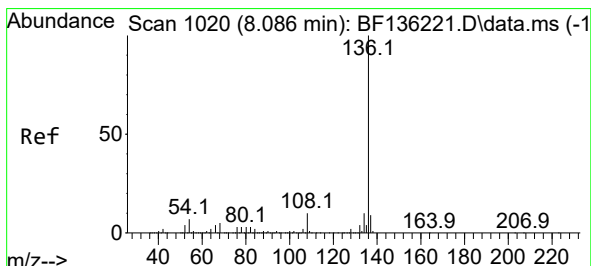
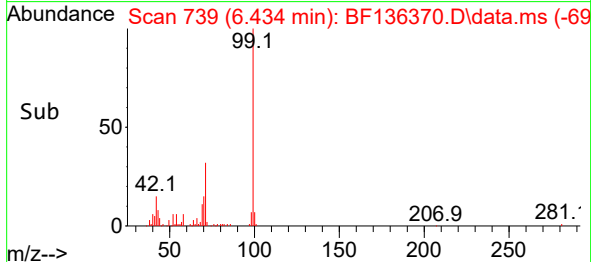
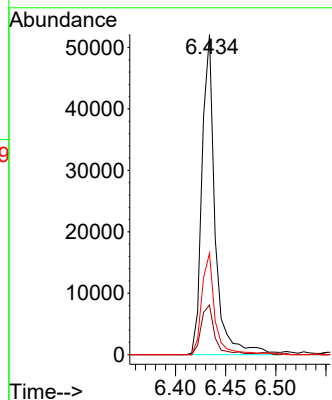
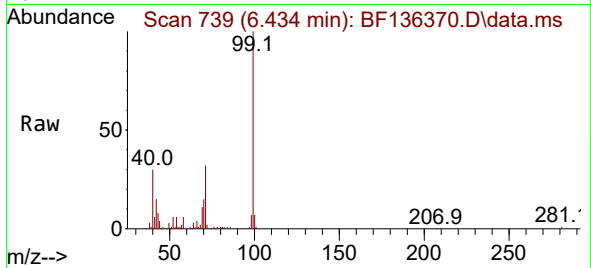




#7
Phenol-d6
Concen: 4.634 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

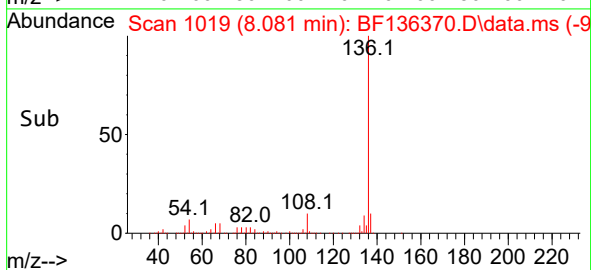
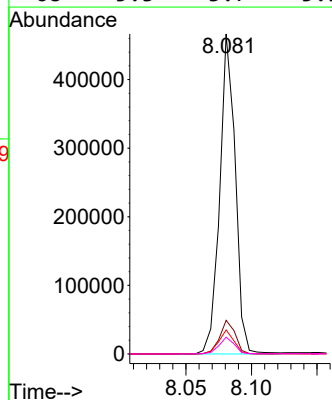
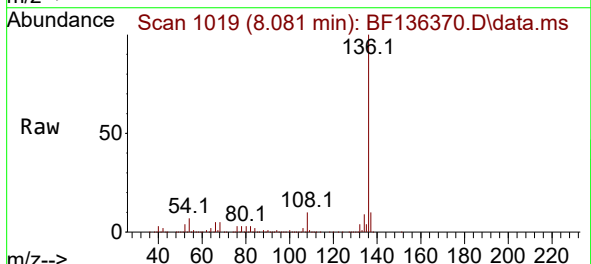
Instrument :
BNA_F
ClientSampleId :

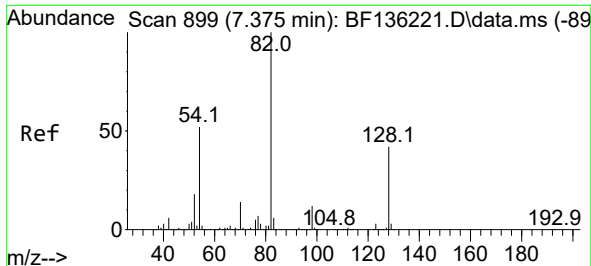
Tgt Ion: 99 Resp: 47732
Ion Ratio Lower Upper
99 100
42 15.5 15.0 22.6
71 31.7 28.9 43.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion: 136 Resp: 383861
Ion Ratio Lower Upper
136 100
137 10.5 7.4 11.2
54 7.5 5.5 8.3
68 5.3 3.7 5.5





#23

Nitrobenzene-d5

Concen: 3.806 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :

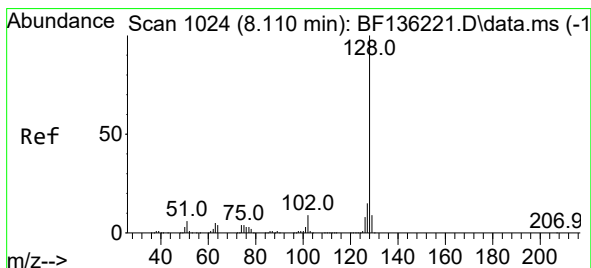
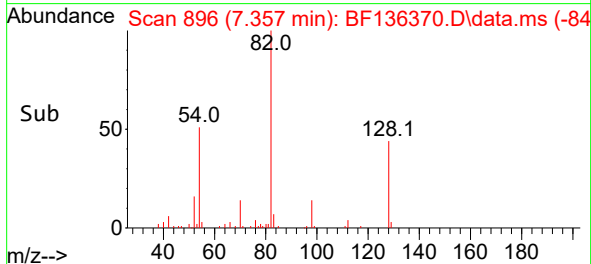
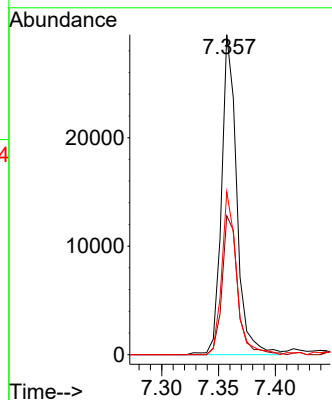
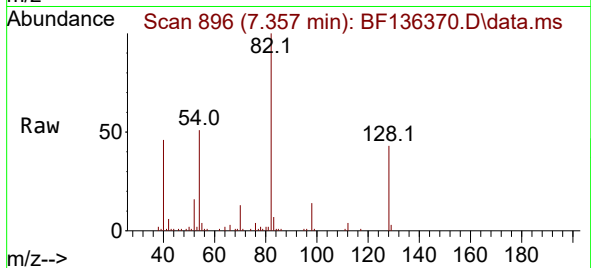
Tgt Ion: 82 Resp: 27646

Ion Ratio Lower Upper

82 100

128 43.4 33.4 50.2

54 50.9 41.7 62.5



#31

Naphthalene

Concen: 19.217 ng

RT: 8.104 min Scan# 1023

Delta R.T. -0.006 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

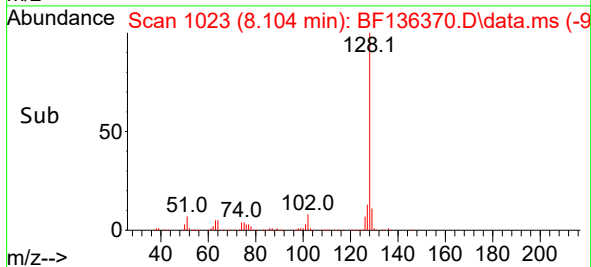
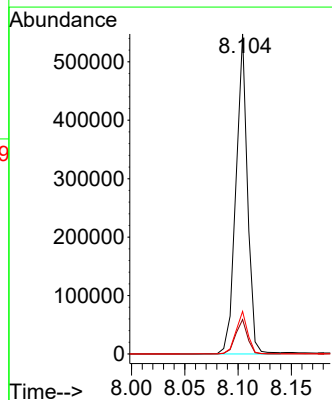
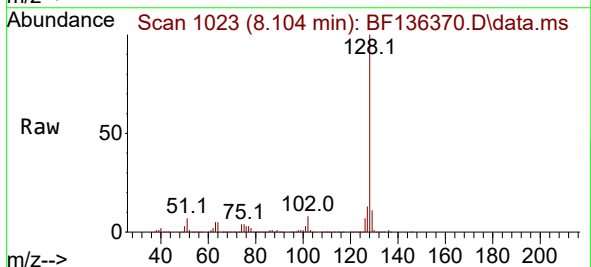
Tgt Ion: 128 Resp: 414617

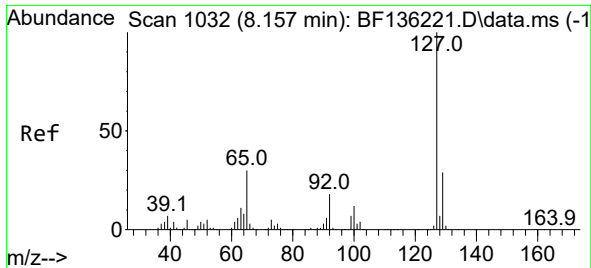
Ion Ratio Lower Upper

128 100

129 10.8 7.3 10.9

127 13.3 11.8 17.6

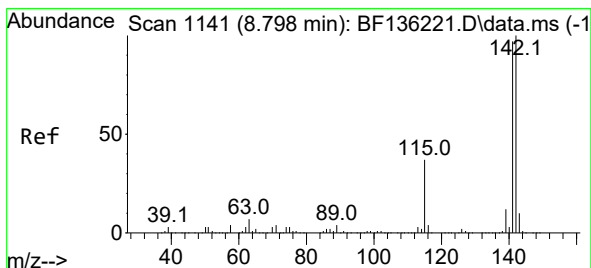
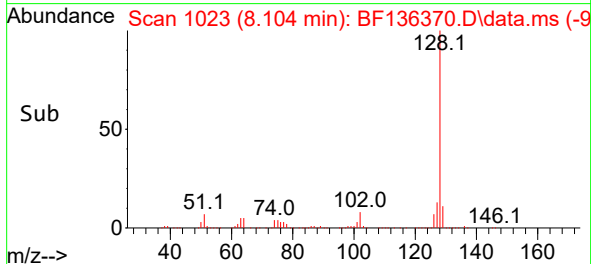
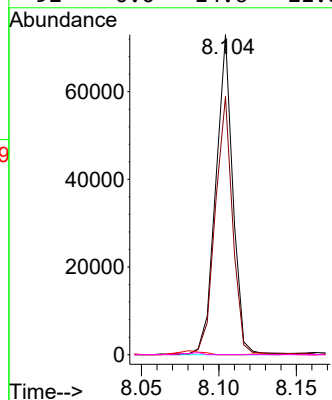
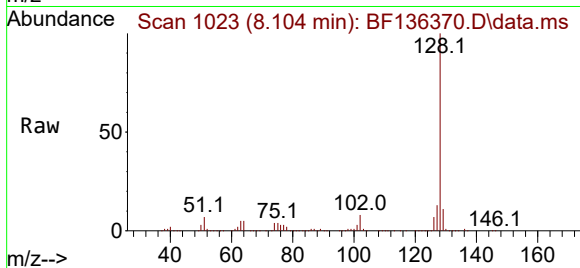




#33
4-Chloroaniline
Concen: 7.628 ng
RT: 8.104 min Scan# 110
Delta R.T. -0.053 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

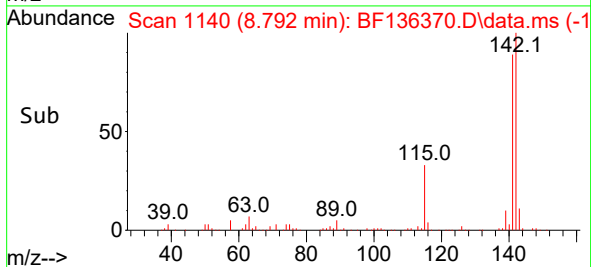
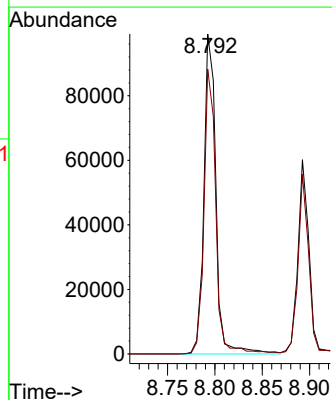
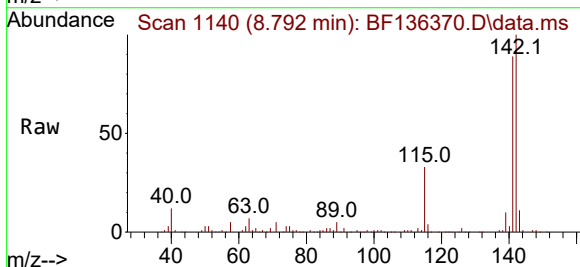
Instrument :
BNA_F
ClientSampleId :

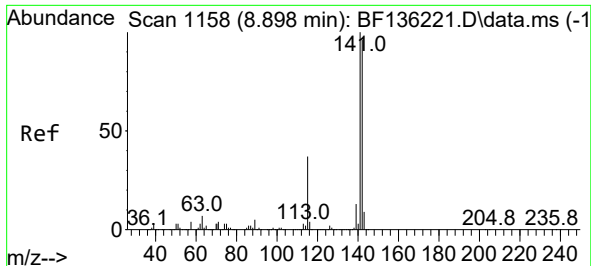
Tgt Ion:127	Resp:	55944
Ion Ratio	Lower	Upper
127	100	
129	80.6	23.4 35.2#
65	0.0	23.8 35.6#
92	0.0	14.6 21.8#



#37
2-Methylnaphthalene
Concen: 6.469 ng
RT: 8.792 min Scan# 1140
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:142	Resp:	87552
Ion Ratio	Lower	Upper
142	100	
141	89.0	77.8 116.8





#38

1-Methylnaphthalene

Concen: 3.651 ng

RT: 8.892 min Scan# 1157

Delta R.T. -0.006 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

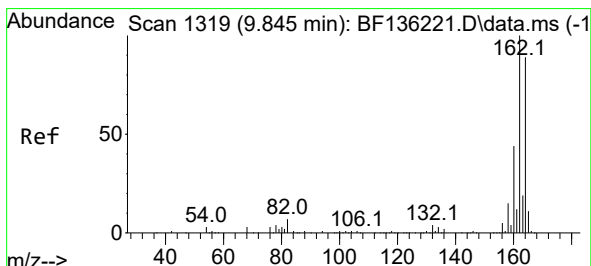
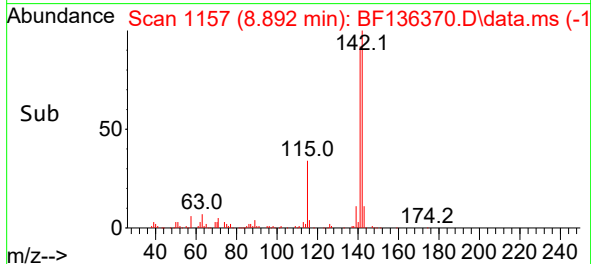
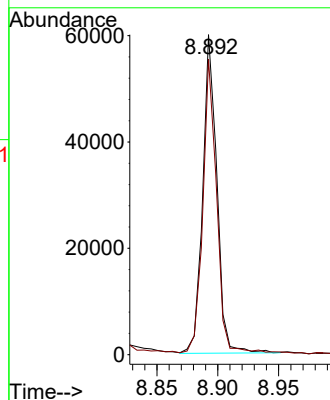
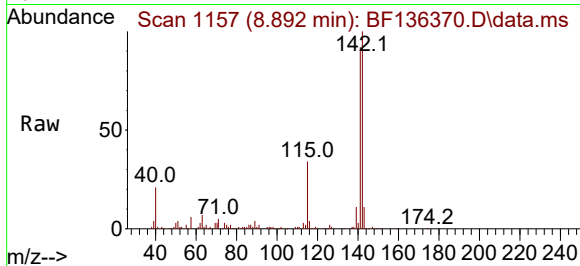
ClientSampleId :

Tgt Ion:142 Resp: 48199

Ion Ratio Lower Upper

142 100

141 92.4 83.8 125.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1318

Delta R.T. -0.006 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

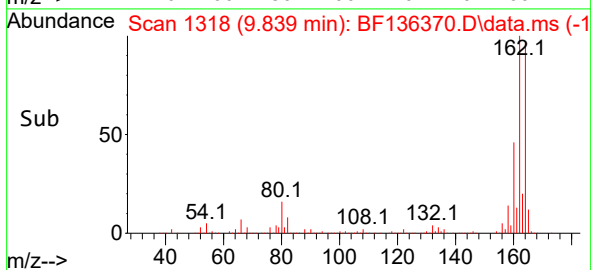
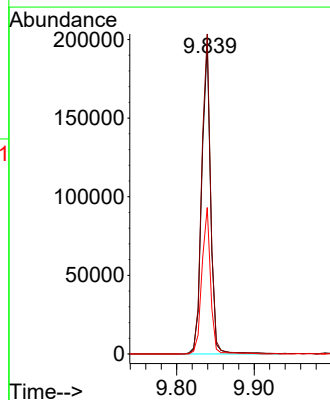
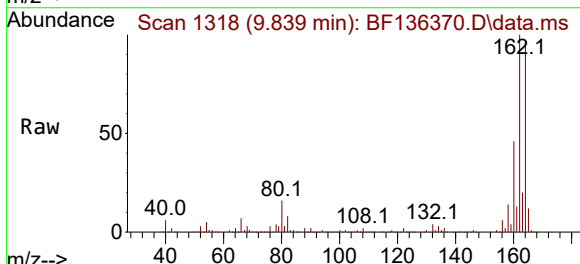
Tgt Ion:164 Resp: 156696

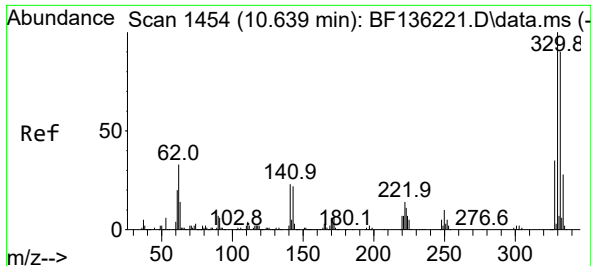
Ion Ratio Lower Upper

164 100

162 103.2 89.5 134.3

160 47.2 39.6 59.4





#42

2,4,6-Tribromophenol

Concen: 4.757 ng

RT: 10.628 min Scan# 1454

Delta R.T. -0.012 min

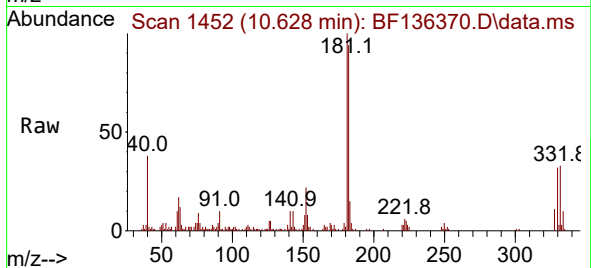
Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :



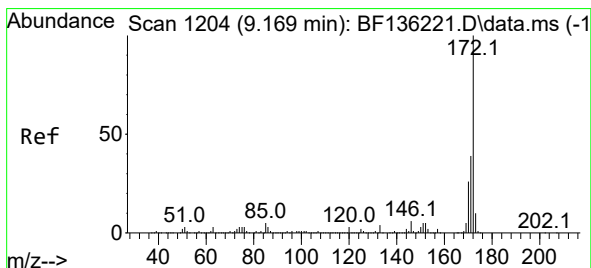
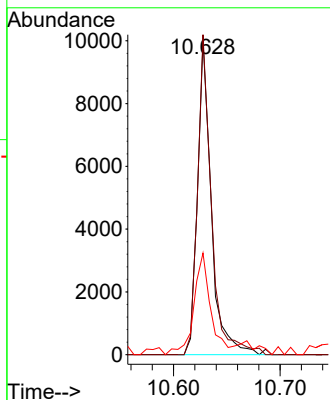
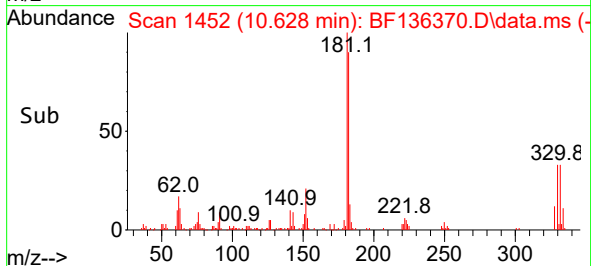
Tgt Ion:330 Resp: 9113

Ion Ratio Lower Upper

330 100

332 102.1 73.0 109.6

141 39.9 24.2 36.2#



#45

2-Fluorobiphenyl

Concen: 4.450 ng

RT: 9.157 min Scan# 1202

Delta R.T. -0.012 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

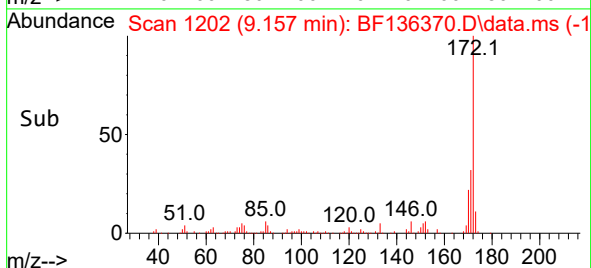
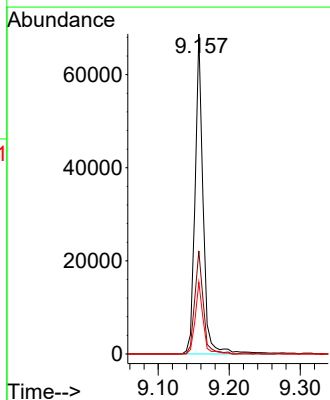
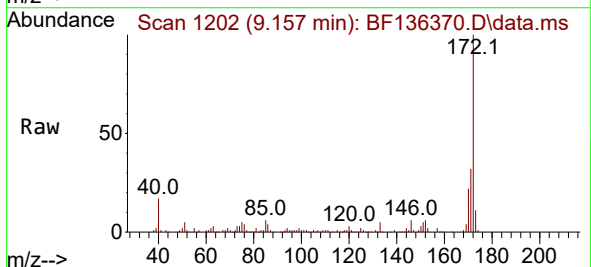
Tgt Ion:172 Resp: 54586

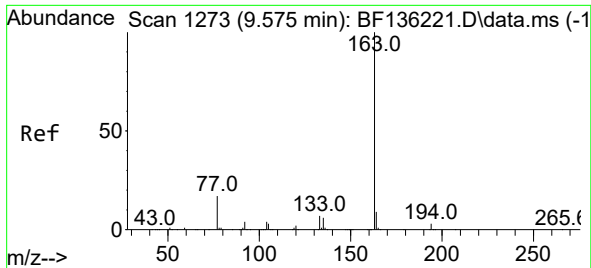
Ion Ratio Lower Upper

172 100

171 32.2 31.5 47.3

170 22.4 20.8 31.2

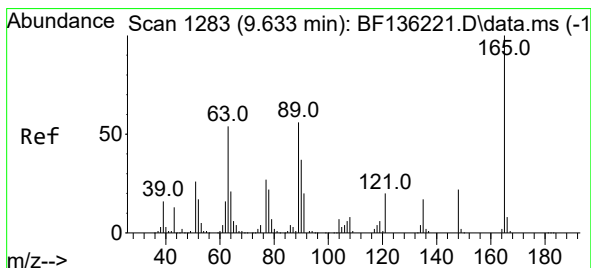
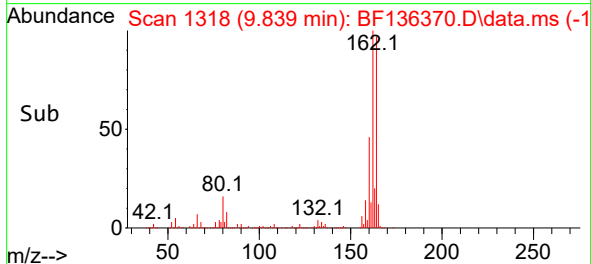
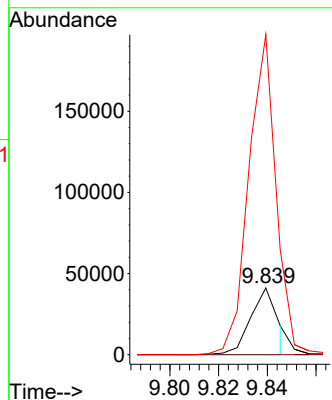
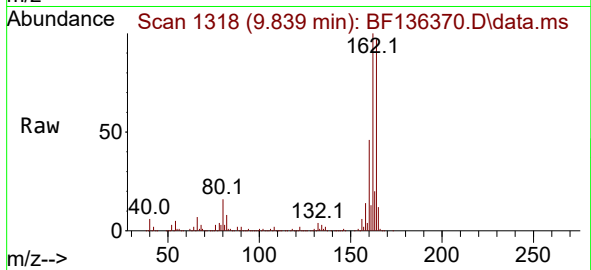




#50
Dimethylphthalate
Concen: 2.640 ng
RT: 9.839 min Scan# 1318
Delta R.T. 0.265 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

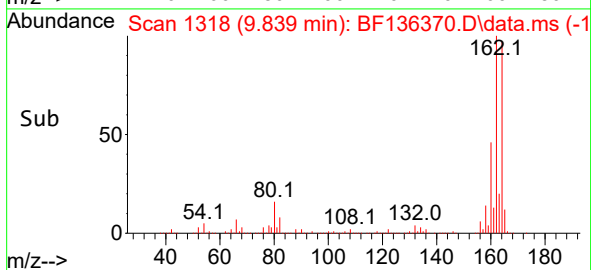
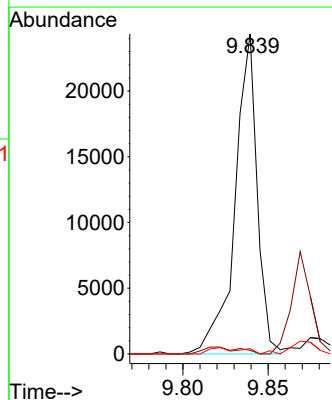
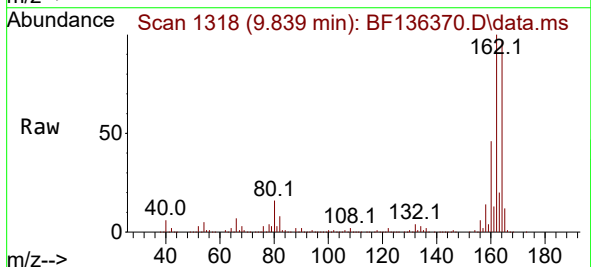
Instrument :
BNA_F
ClientSampleId :

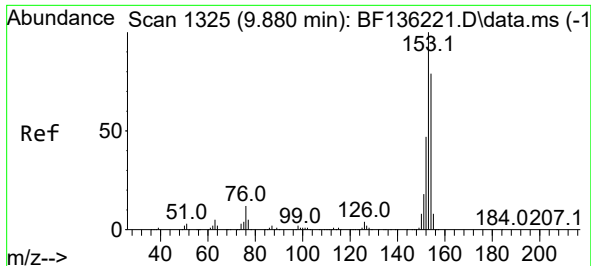
Tgt Ion:163 Resp: 31271
Ion Ratio Lower Upper
163 100
194 0.0 2.5 3.7#
164 479.6 7.0 10.6#



#51
2,6-Dinitrotoluene
Concen: 9.110 ng
RT: 9.839 min Scan# 1318
Delta R.T. 0.206 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:165 Resp: 22042
Ion Ratio Lower Upper
165 100
63 1.1 46.2 69.2#
89 1.6 44.9 67.3#

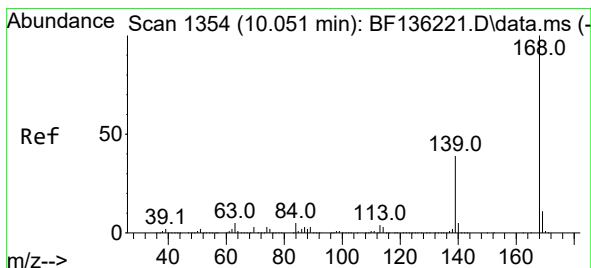
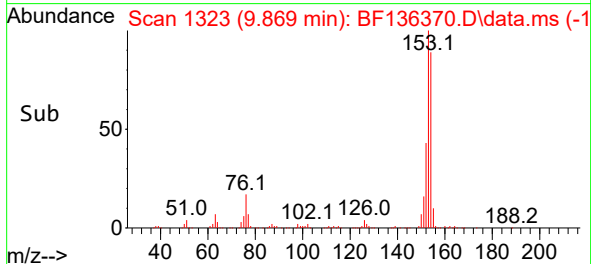
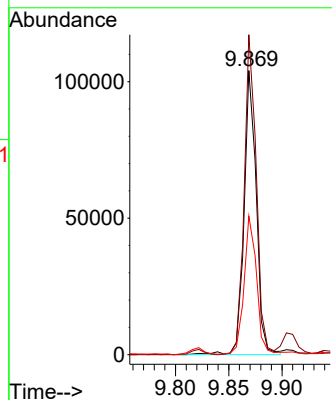
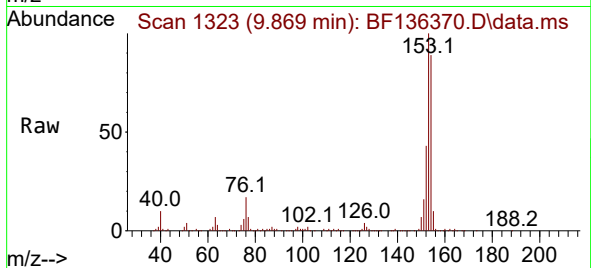




#52
Acenaphthene
Concen: 8.574 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

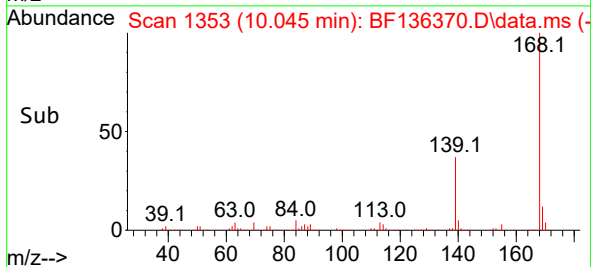
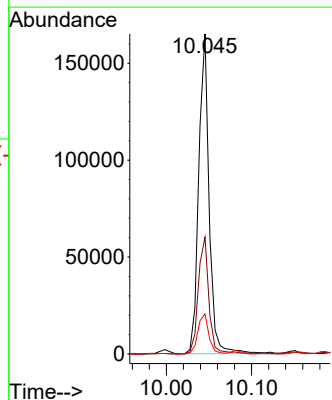
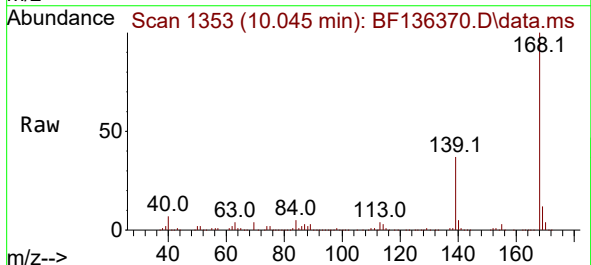
Instrument :
BNA_F
ClientSampleId :

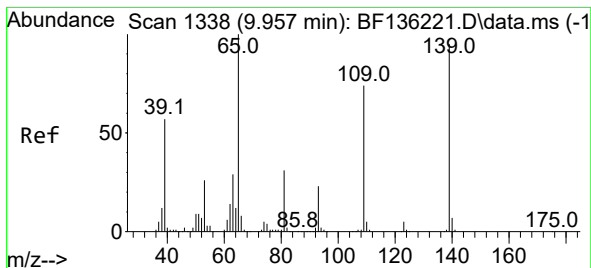
Tgt Ion:154 Resp: 82978
Ion Ratio Lower Upper
154 100
153 112.6 100.8 151.2
152 48.8 47.0 70.6



#55
Dibenzofuran
Concen: 9.732 ng
RT: 10.045 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:168 Resp: 140142
Ion Ratio Lower Upper
168 100
139 36.5 30.9 46.3
169 12.5 9.1 13.7





#56

4-Nitrophenol

Concen: 28.927 ng

RT: 10.045 min Scan# 1

Delta R.T. 0.088 min

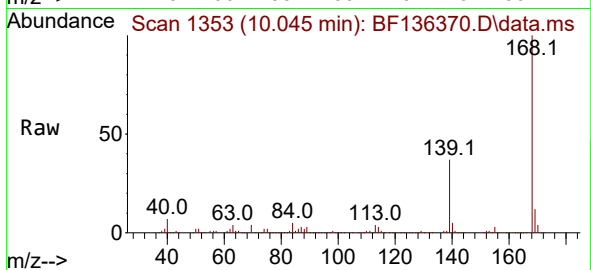
Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :



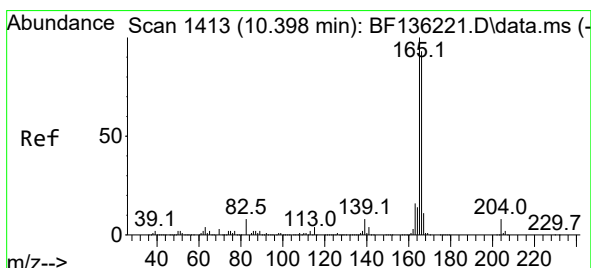
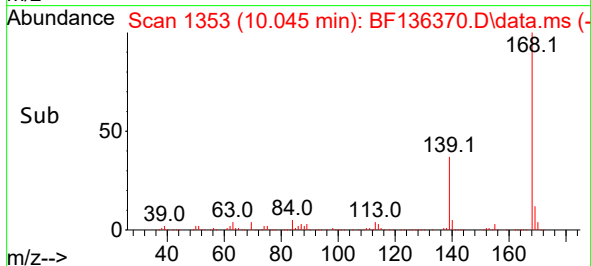
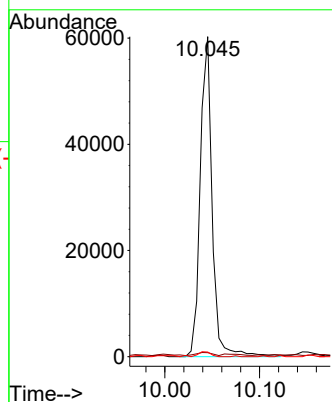
Tgt Ion:139 Resp: 52744

Ion Ratio Lower Upper

139 100

109 1.2 57.8 97.8#

65 1.4 86.0 126.0#



#58

Fluorene

Concen: 15.924 ng

RT: 10.386 min Scan# 1411

Delta R.T. -0.012 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

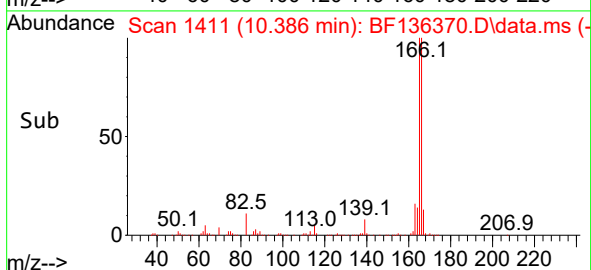
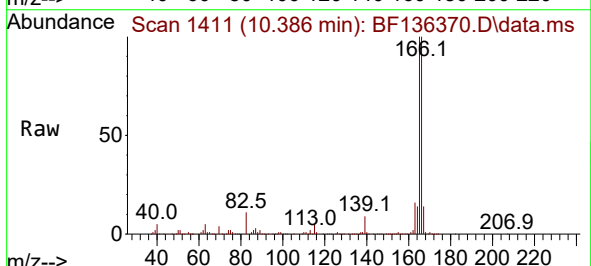
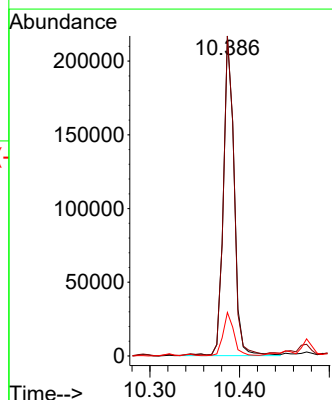
Tgt Ion:166 Resp: 179868

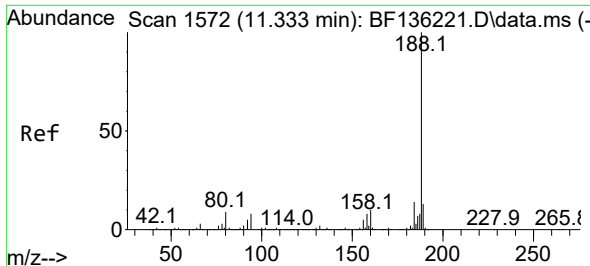
Ion Ratio Lower Upper

166 100

165 99.9 86.2 129.4

167 13.6 9.1 13.7

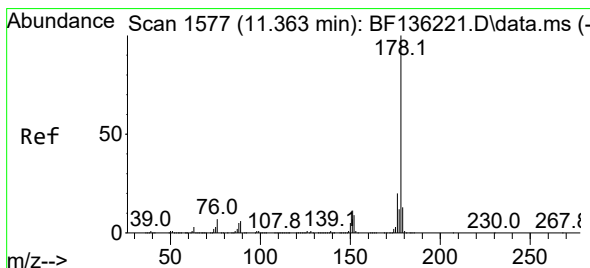
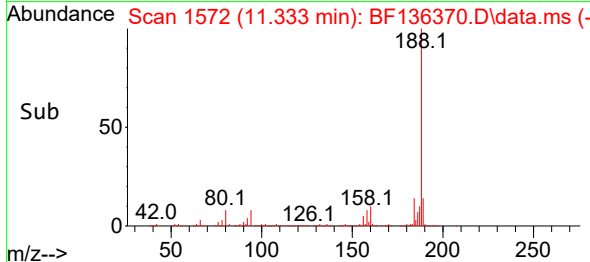
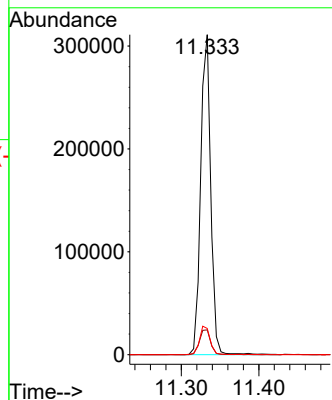
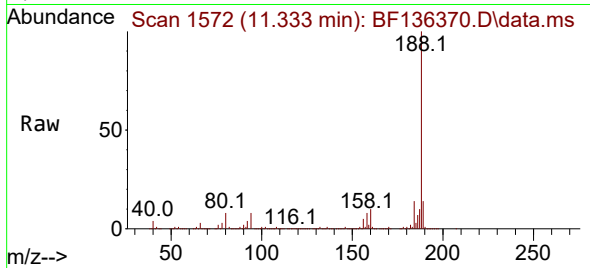




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

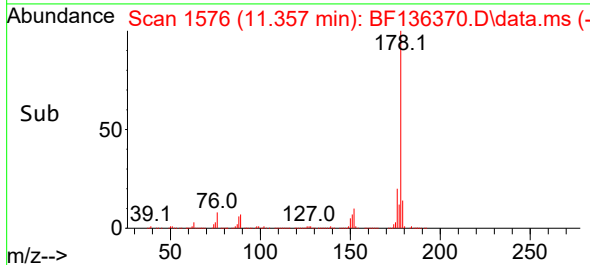
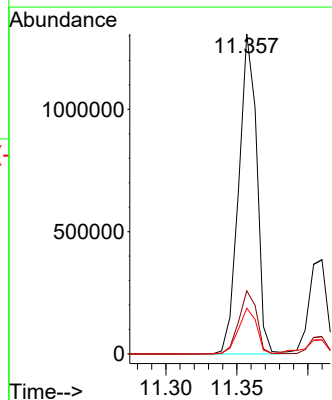
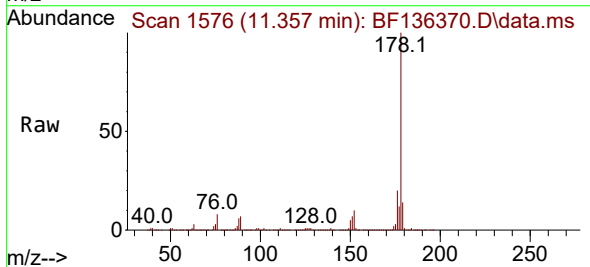
Instrument :
BNA_F
ClientSampleId :

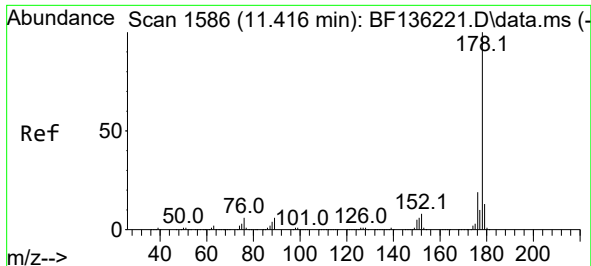
Tgt Ion:188 Resp: 279721
Ion Ratio Lower Upper
188 100
94 7.7 6.7 10.1
80 8.2 7.2 10.8



#71
Phenanthrene
Concen: 73.534 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:178 Resp: 1156067
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.2
179 14.3 10.3 15.5

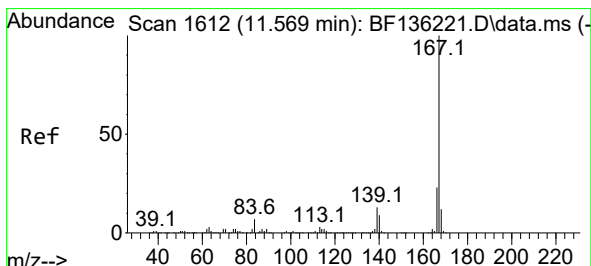
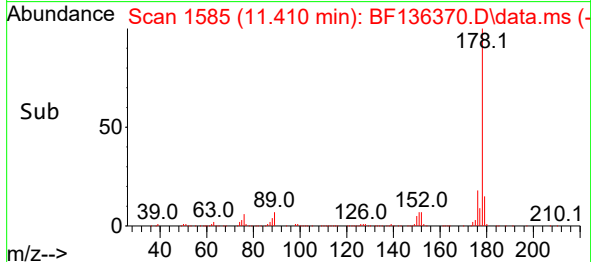
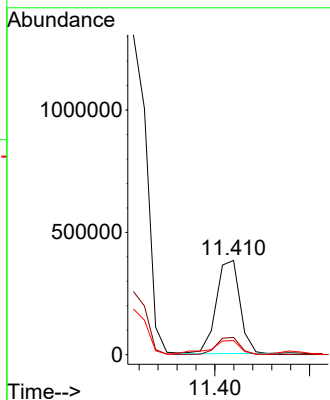
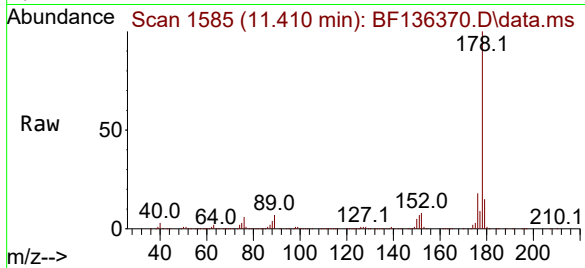




#72
 Anthracene
 Concen: 21.142 ng
 RT: 11.410 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136370.D
 Acq: 02 Dec 2023 09:56

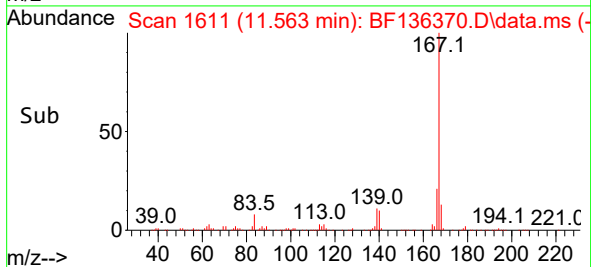
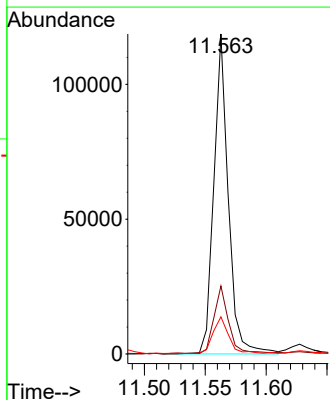
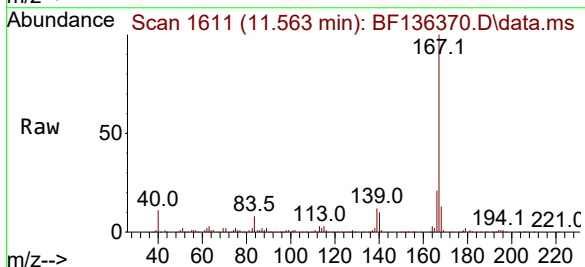
Instrument :
 BNA_F
 ClientSampleId :

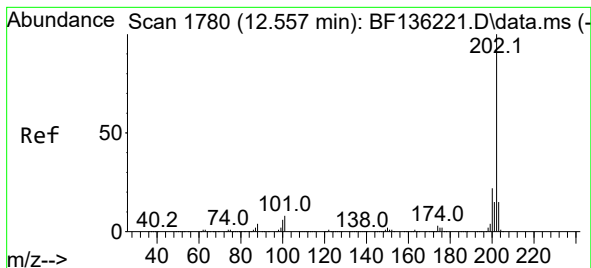
Tgt Ion:178 Resp: 333325
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.5 23.3
 179 14.9 10.5 15.7



#73
 Carbazole
 Concen: 7.346 ng
 RT: 11.563 min Scan# 1611
 Delta R.T. -0.006 min
 Lab File: BF136370.D
 Acq: 02 Dec 2023 09:56

Tgt Ion:167 Resp: 98508
 Ion Ratio Lower Upper
 167 100
 166 21.2 18.4 27.6
 139 11.6 10.5 15.7

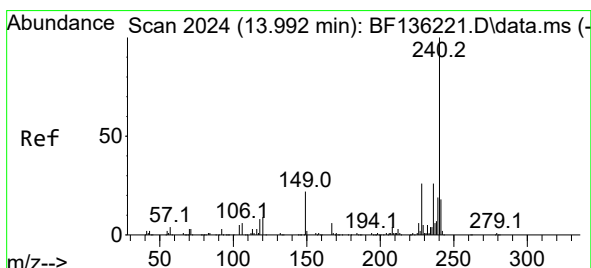
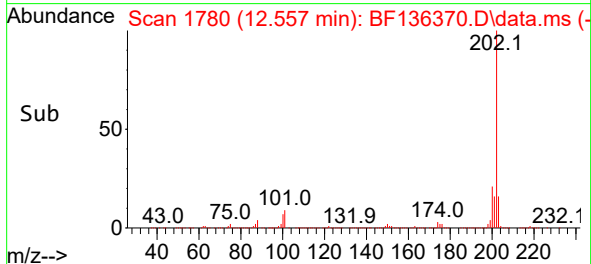
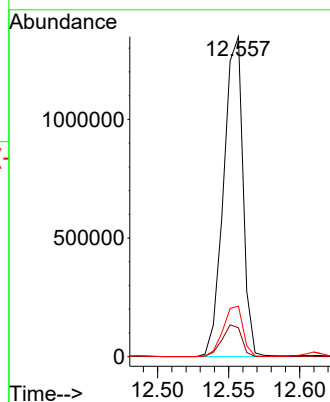
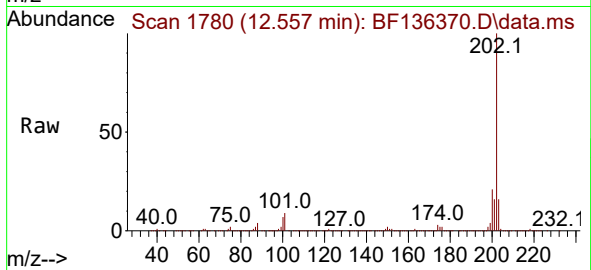




#75
Fluoranthene
Concen: 79.962 ng
RT: 12.557 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

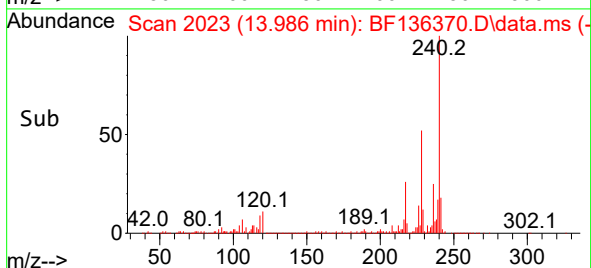
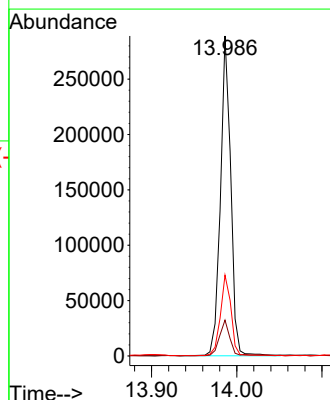
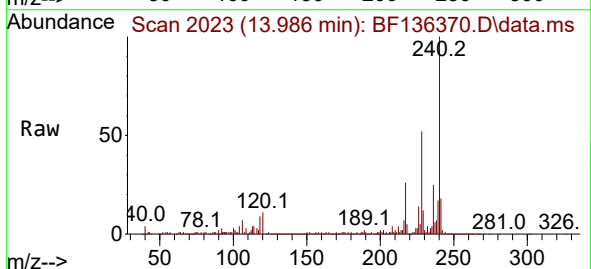
Instrument :
BNA_F
ClientSampleId :

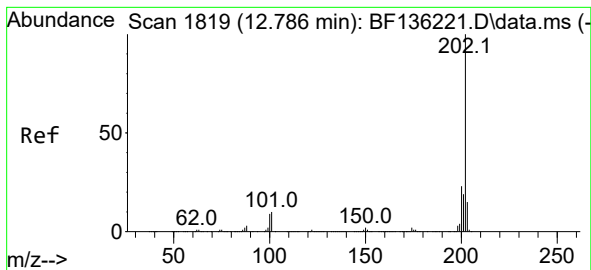
Tgt Ion:202 Resp: 1276195
Ion Ratio Lower Upper
202 100
101 9.0 0.0 27.8
203 15.8 0.0 34.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:240 Resp: 241761
Ion Ratio Lower Upper
240 100
120 11.2 7.4 11.2#
236 25.2 21.1 31.7





#78

Pyrene

Concen: 39.063 ng

RT: 12.780 min Scan# 1819

Delta R.T. -0.006 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :

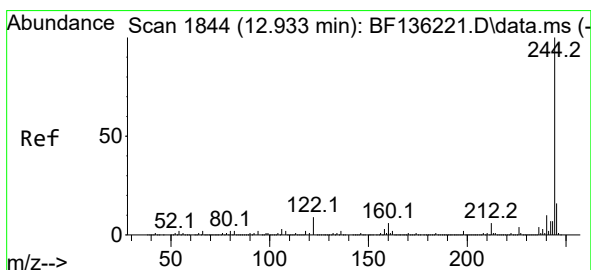
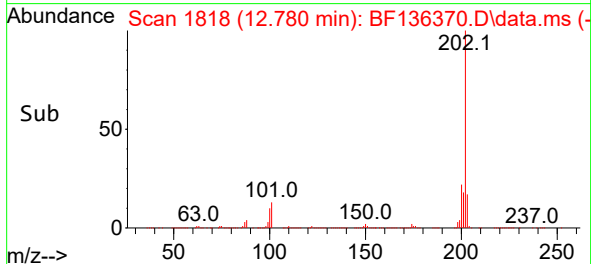
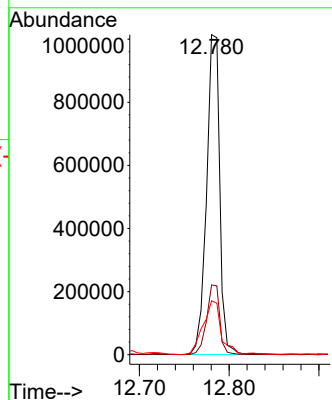
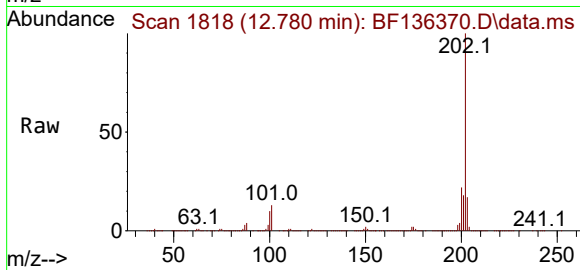
Tgt Ion:202 Resp: 1034267

Ion Ratio Lower Upper

202 100

200 21.8 18.4 27.6

203 16.9 11.8 17.6



#79

Terphenyl-d14

Concen: 2.969 ng

RT: 12.922 min Scan# 1842

Delta R.T. -0.012 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

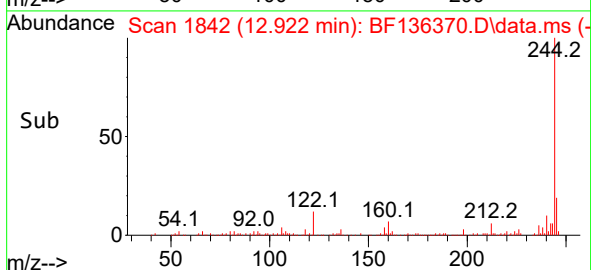
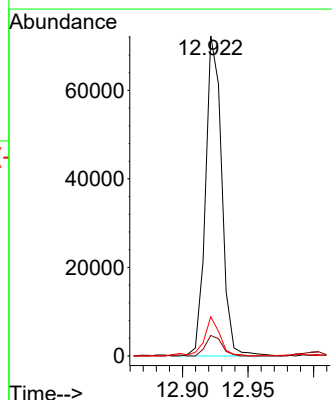
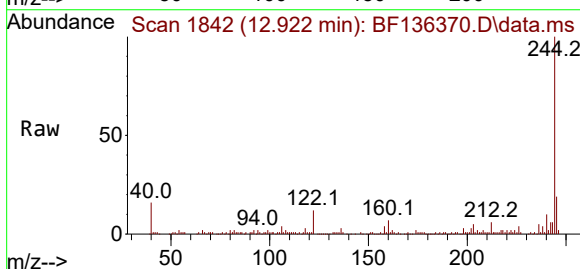
Tgt Ion:244 Resp: 62238

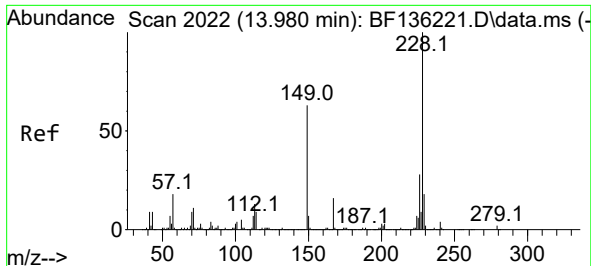
Ion Ratio Lower Upper

244 100

212 6.4 4.6 7.0

122 12.2 7.3 10.9#

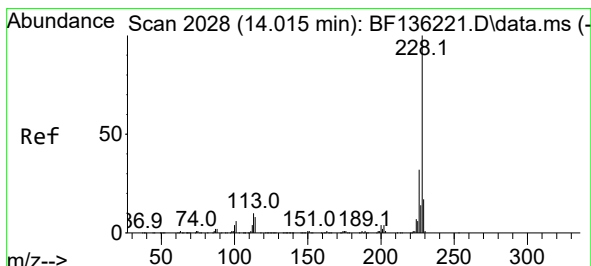
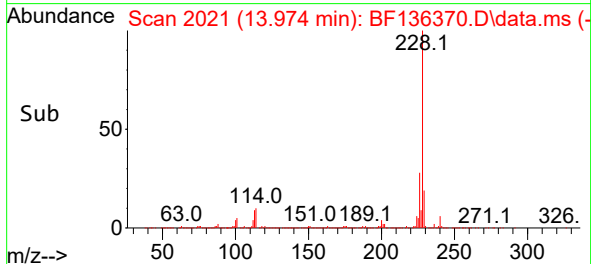
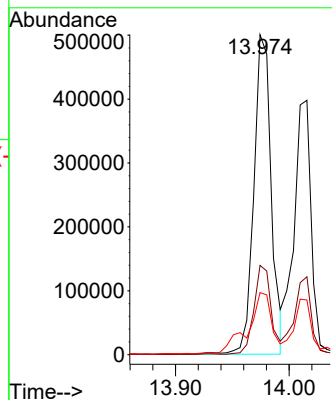
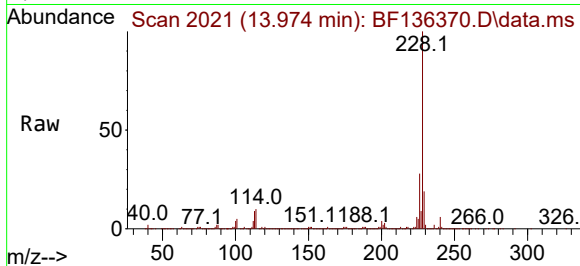




#81
Benzo(a)anthracene
Concen: 29.672 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

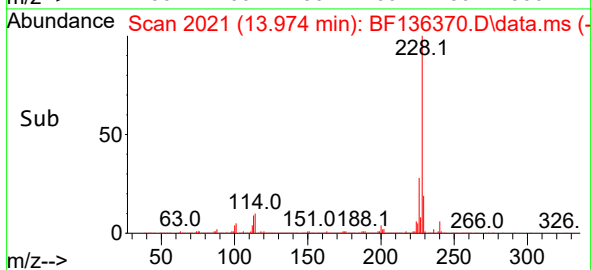
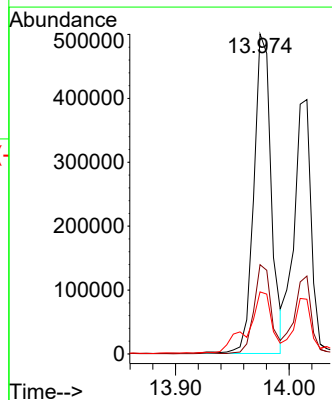
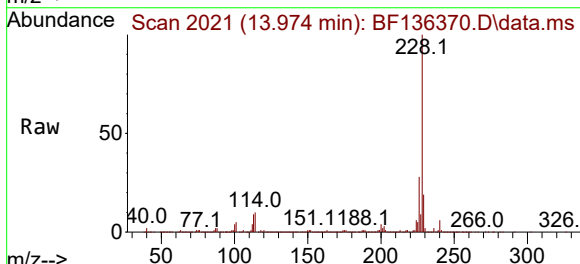
Instrument :
BNA_F
ClientSampleId :

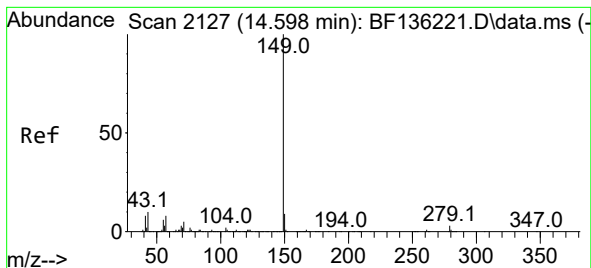
Tgt Ion:228 Resp: 532821
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.4 14.0 21.0



#83
Chrysene
Concen: 30.731 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.041 min
Lab File: BF136370.D
Acq: 02 Dec 2023 09:56

Tgt Ion:228 Resp: 532821
Ion Ratio Lower Upper
228 100
226 27.9 25.5 38.3
229 19.4 13.9 20.9





#85

Di-n-octyl phthalate

Concen: 5.179 ng

RT: 14.604 min Scan# 2127

Delta R.T. 0.006 min

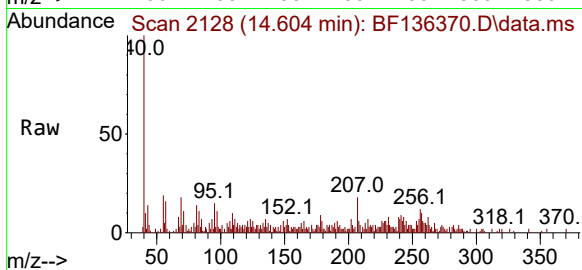
Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :



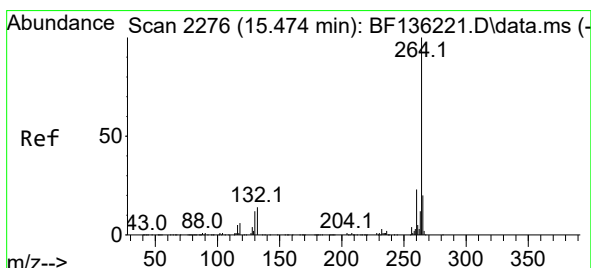
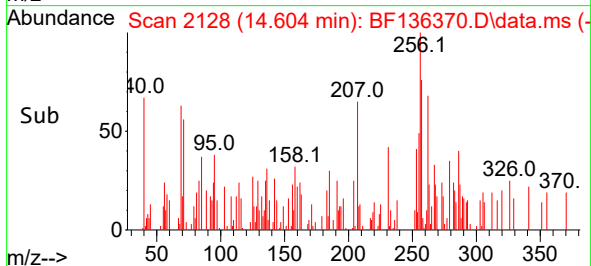
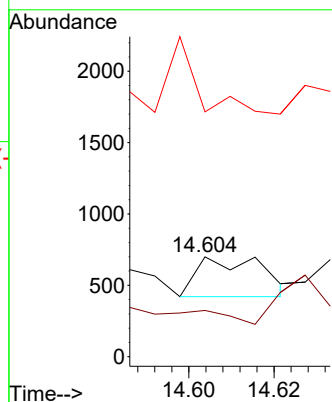
Tgt Ion:149 Resp: 294

Ion Ratio Lower Upper

149 100

167 0.0 1.0 1.6#

43 193.5 7.2 10.8#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

Delta R.T. -0.006 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

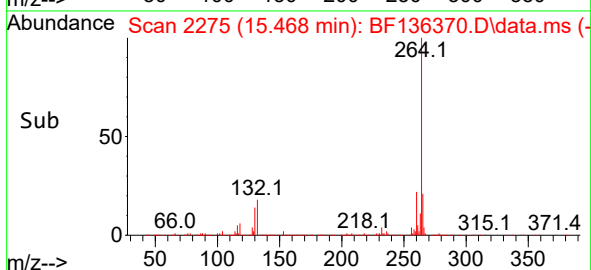
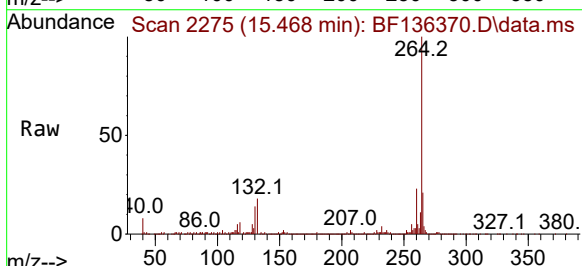
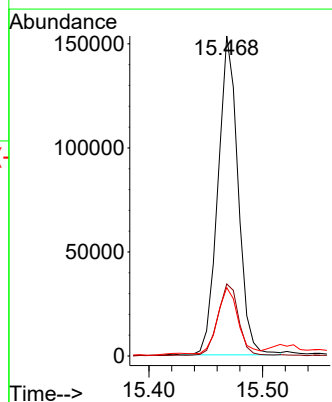
Tgt Ion:264 Resp: 188228

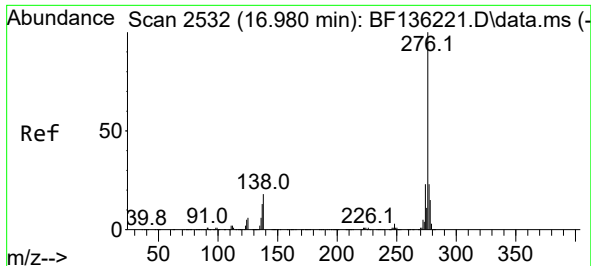
Ion Ratio Lower Upper

264 100

260 22.5 18.6 27.8

265 21.3 15.7 23.5

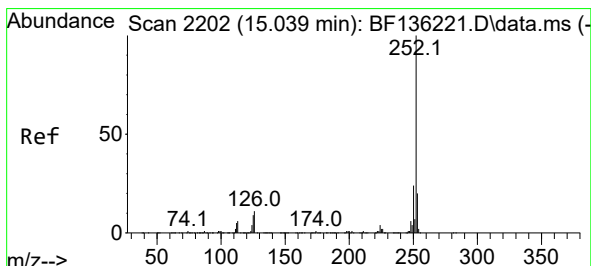
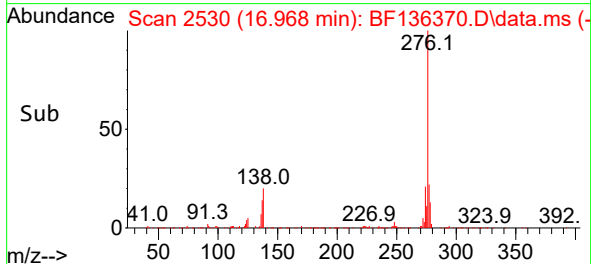
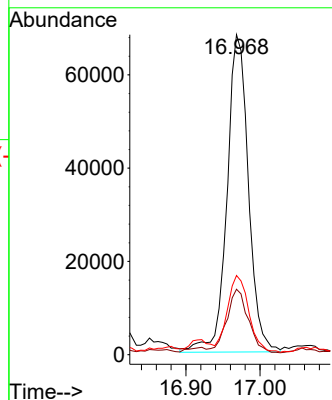
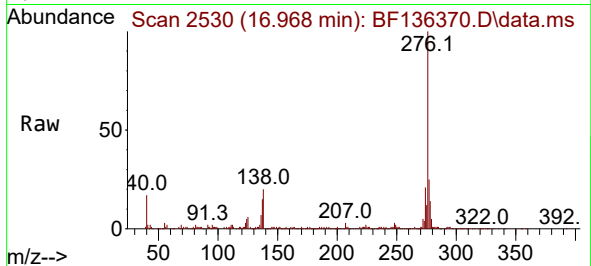




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 11.869 ng
 RT: 16.968 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF136370.D
 Acq: 02 Dec 2023 09:56

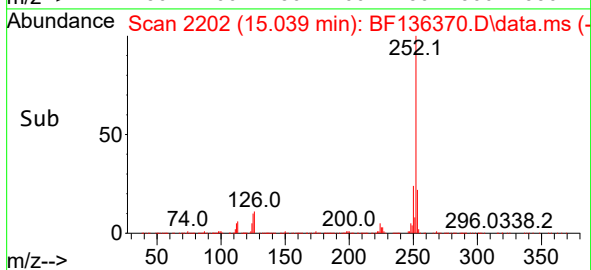
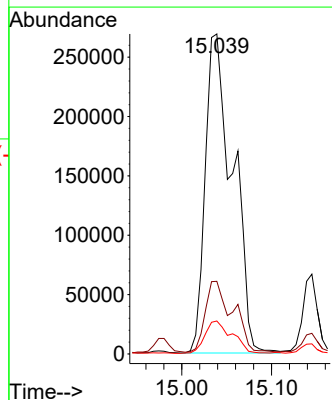
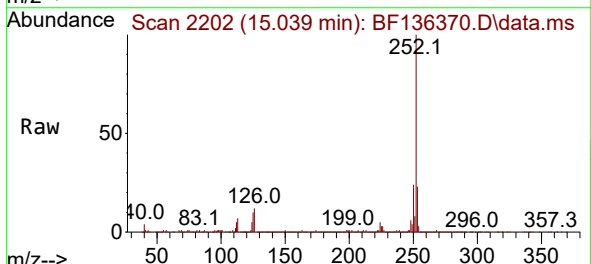
Instrument :
 BNA_F
 ClientSampleId :

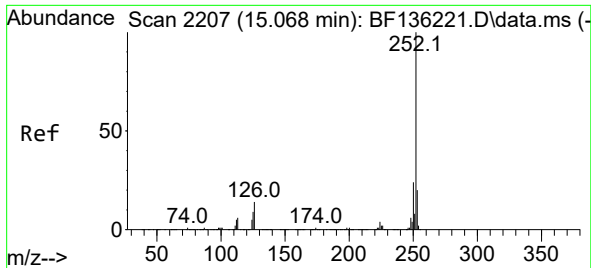
Tgt Ion:276 Resp: 136947
 Ion Ratio Lower Upper
 276 100
 138 20.2 17.7 26.5
 277 23.9 19.6 29.4



#88
 Benzo(b)fluoranthene
 Concen: 43.304 ng
 RT: 15.039 min Scan# 2202
 Delta R.T. 0.000 min
 Lab File: BF136370.D
 Acq: 02 Dec 2023 09:56

Tgt Ion:252 Resp: 571860
 Ion Ratio Lower Upper
 252 100
 253 22.7 16.2 24.2
 125 10.3 6.9 10.3





#89

Benzo(k)fluoranthene

Concen: 45.594 ng

RT: 15.039 min Scan# 2207

Delta R.T. -0.029 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :

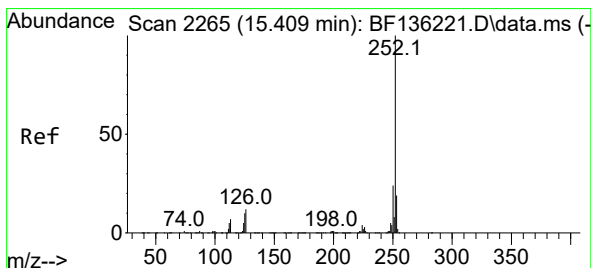
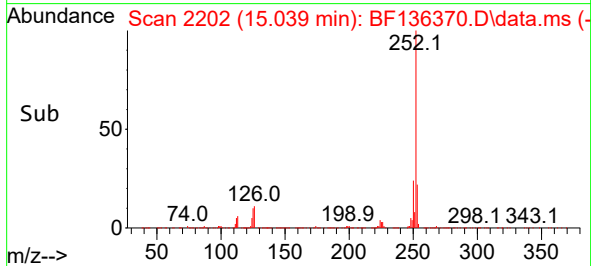
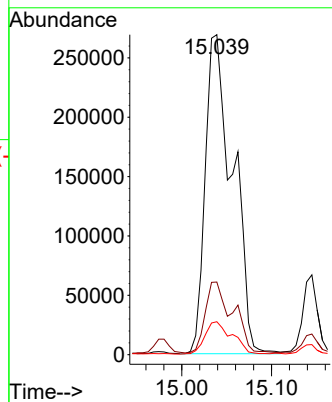
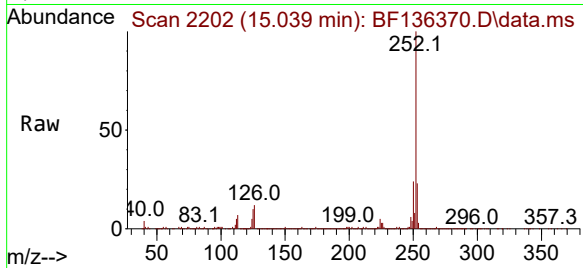
Tgt Ion:252 Resp: 571860

Ion Ratio Lower Upper

252 100

253 22.7 15.6 23.4

125 10.3 7.0 10.4



#90

Benzo(a)pyrene

Concen: 26.733 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.005 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

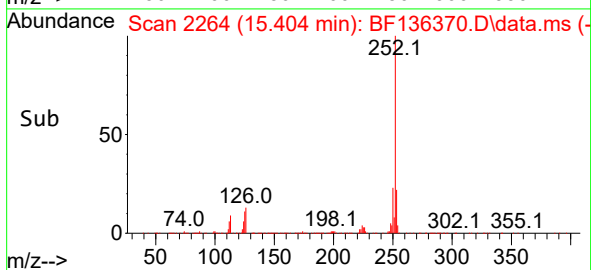
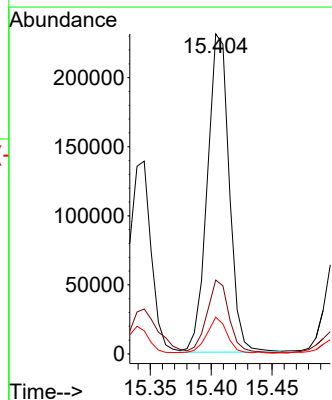
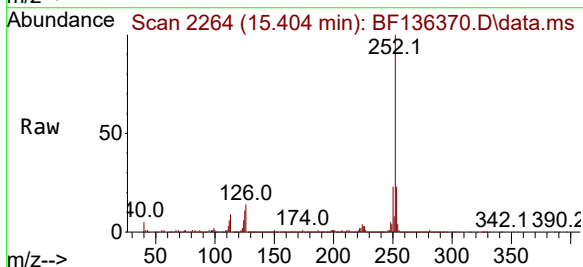
Tgt Ion:252 Resp: 288599

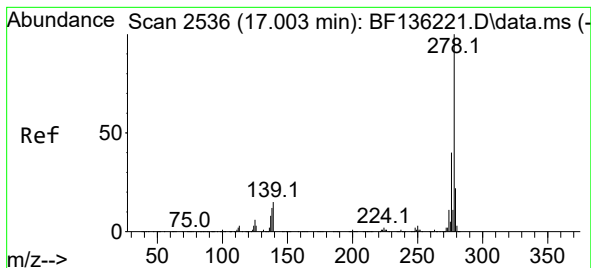
Ion Ratio Lower Upper

252 100

253 23.1 15.5 23.3

125 11.5 7.9 11.9





#91

Dibenzo(a,h)anthracene

Concen: 5.368 ng

RT: 16.980 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF136370.D

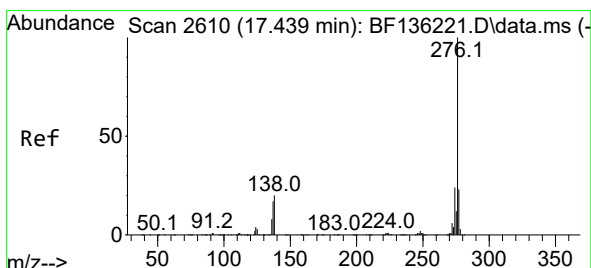
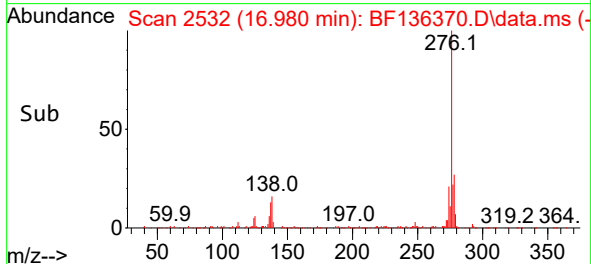
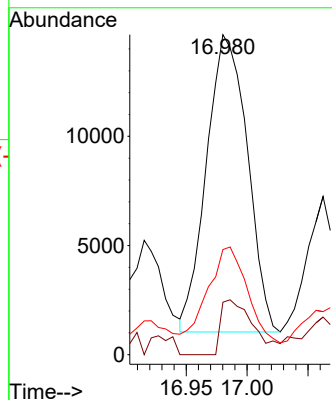
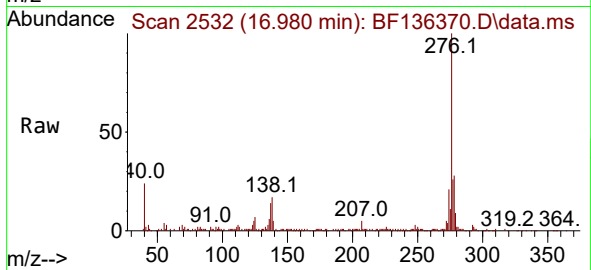
Acq: 02 Dec 2023 09:56

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:278 Resp: 31770
 Ion Ratio Lower Upper
 278 100
 139 16.4 11.7 17.5
 279 32.8 17.8 26.8#



#92

Benzo(g,h,i)perylene

Concen: 12.283 ng

RT: 17.427 min Scan# 2608

Delta R.T. -0.012 min

Lab File: BF136370.D

Acq: 02 Dec 2023 09:56

Tgt Ion:276 Resp: 122499
 Ion Ratio Lower Upper
 276 100
 277 25.1 18.6 27.8
 138 20.6 15.8 23.8

