

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
 Data File : BF135895.D
 Acq On : 19 Oct 2023 19:49
 Operator : CG\JU
 Sample : 04704-04DL2 25X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-3(10-15)DL

Quant Time: Oct 20 02:04:04 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

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

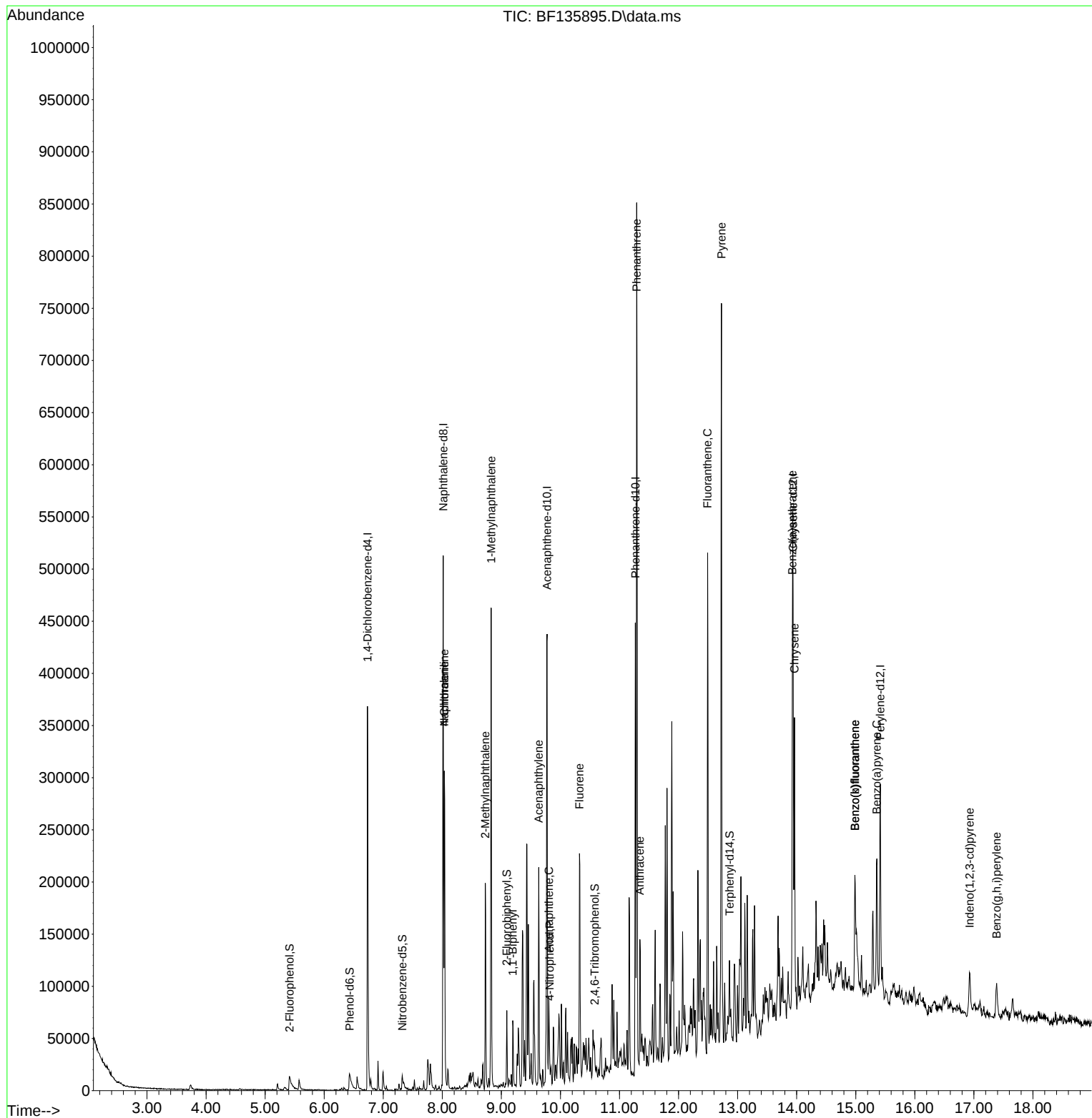
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	58049	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	203534	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	88532	20.000	ng	-0.01
64) Phenanthrene-d10	11.269	188	147628	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	116014	20.000	ng	-0.01
86) Perylene-d12	15.415	264	97445	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	12120	3.357	ng	0.04
7) Phenol-d6	6.434	99	16439	3.649	ng	0.04
23) Nitrobenzene-d5	7.322	82	9081	2.454	ng	0.00
42) 2,4,6-Tribromophenol	10.580	330	2727	3.210	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	19995	3.531	ng	-0.01
79) Terphenyl-d14	12.863	244	18744	2.992	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.033	128	134577	13.556	ng	99
33) 4-Chloroaniline	8.033	127	18026	4.157	ng	# 34
37) 2-Methylnaphthalene	8.727	142	48922	7.480	ng	96
38) 1-Methylnaphthalene	8.827	142	104626	17.343	ng	98
46) 1,1'-Biphenyl	9.192	154	20700	3.052	ng	98
49) Acenaphthylene	9.633	152	58414	7.222	ng	# 95
52) Acenaphthene	9.804	154	15120	3.119	ng	96
56) 4-Nitrophenol	9.816	139	501	6.139	ng	84
58) Fluorene	10.322	166	65023	11.354	ng	96
71) Phenanthrene	11.292	178	294717	41.673	ng	100
72) Anthracene	11.345	178	54461	7.432	ng	98
75) Fluoranthene	12.492	202	178245	22.709	ng	97
78) Pyrene	12.727	202	281350	30.518	ng	99
81) Benzo(a)anthracene	13.927	228	105384	13.829	ng	97
83) Chrysene	13.962	228	93815	12.711	ng	98
87) Indeno(1,2,3-cd)pyrene	16.927	276	25579	4.818	ng	95
88) Benzo(b)fluoranthene	14.986	252	80905	14.835	ng	# 97
89) Benzo(k)fluoranthene	14.986	252	80905	15.280	ng	98
90) Benzo(a)pyrene	15.356	252	61610	12.014	ng	98
92) Benzo(g,h,i)perylene	17.386	276	27342	6.115	ng	# 89

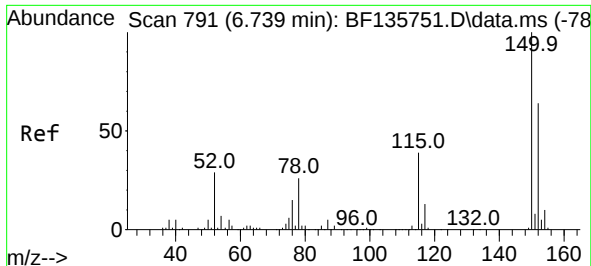
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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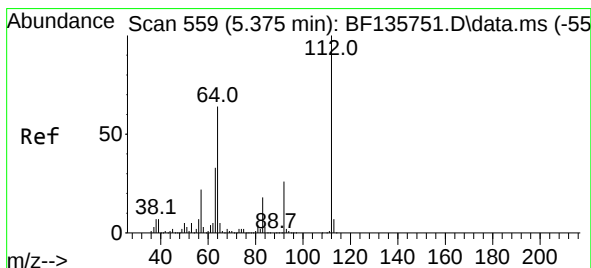
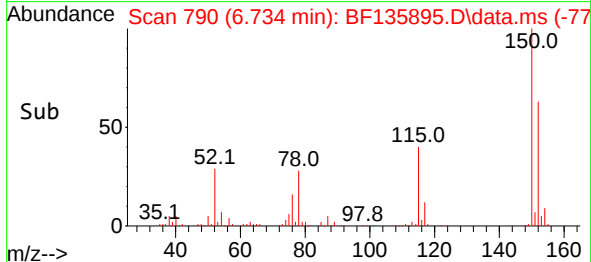
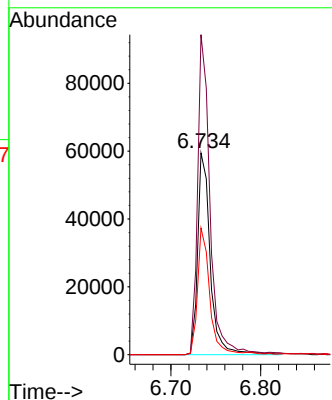
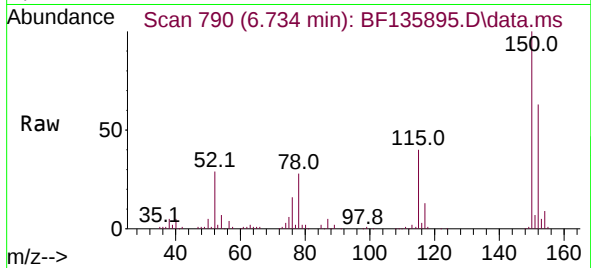




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.013 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

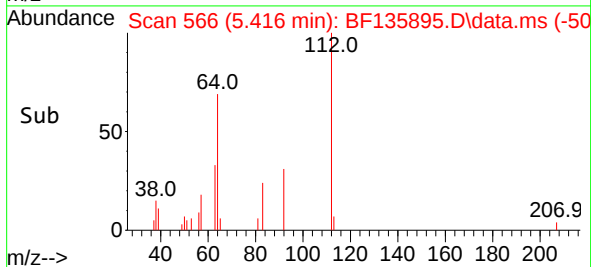
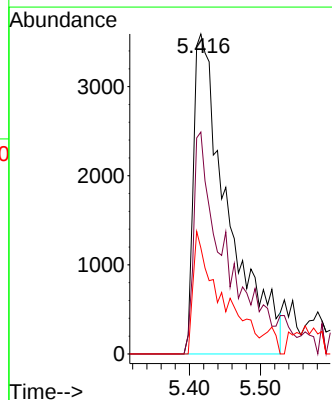
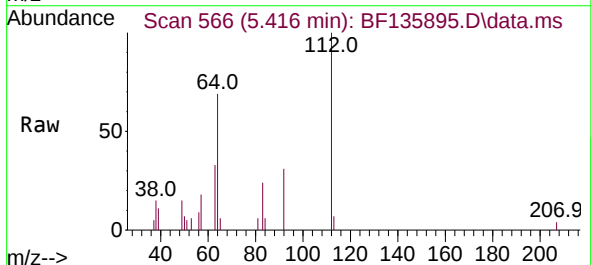
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

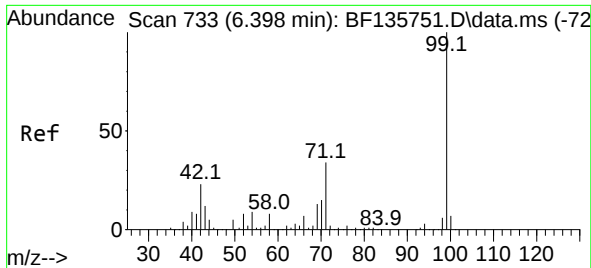
Tgt Ion:152 Resp: 58049
Ion Ratio Lower Upper
152 100
150 158.7 124.5 186.7
115 62.8 49.0 73.4



#5
2-Fluorophenol
Concen: 3.357 ng
RT: 5.416 min Scan# 566
Delta R.T. 0.041 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:112 Resp: 12120
Ion Ratio Lower Upper
112 100
64 69.3 51.2 76.8
63 33.2 26.1 39.1

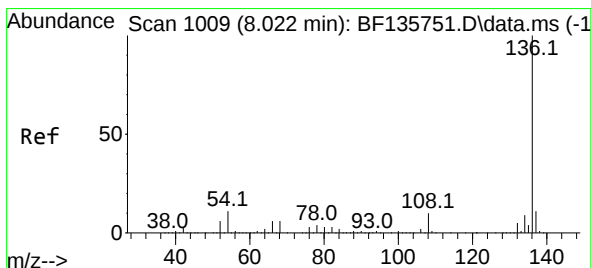
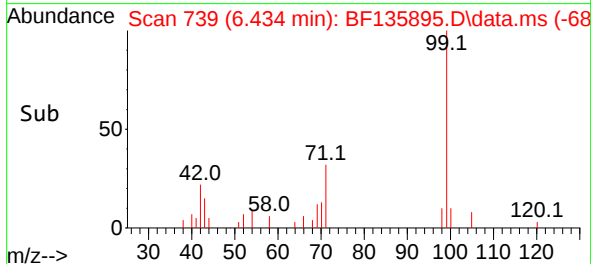
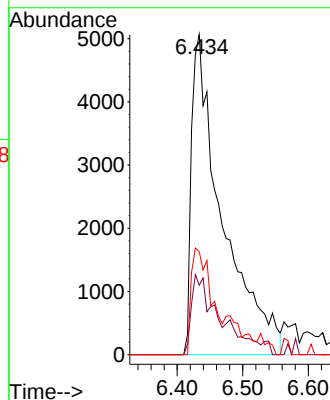
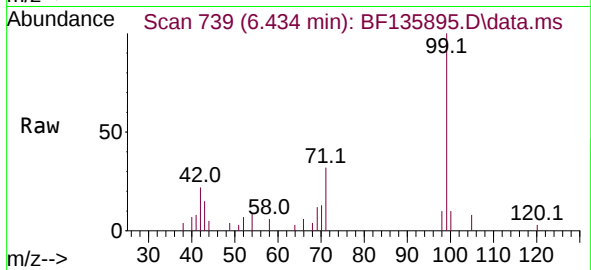




#7
Phenol-d6
Concen: 3.649 ng
RT: 6.434 min Scan# 71
Delta R.T. 0.035 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

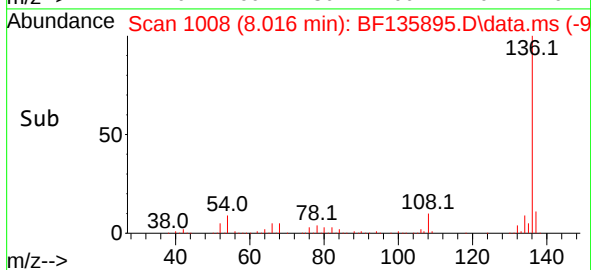
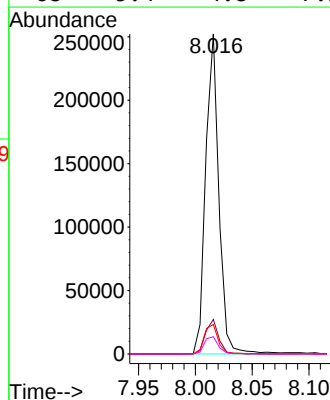
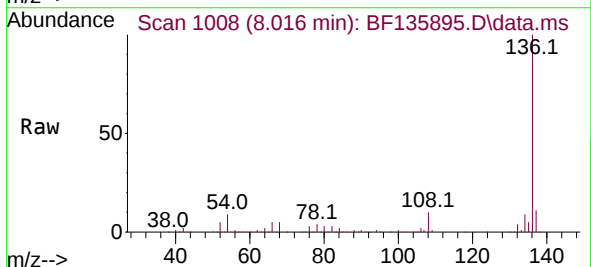
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

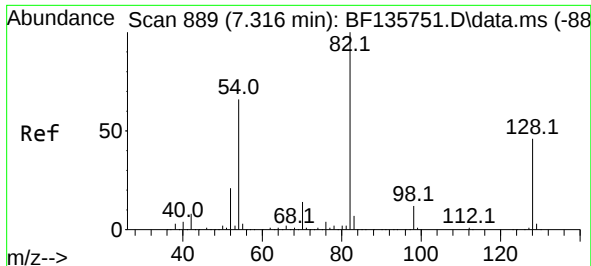
Tgt Ion: 99 Resp: 16439
Ion Ratio Lower Upper
99 100
42 21.7 18.4 27.6
71 32.2 27.2 40.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion: 136 Resp: 203534
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.2 8.5 12.7
68 5.4 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.454 ng

RT: 7.322 min Scan# 89

Delta R.T. 0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

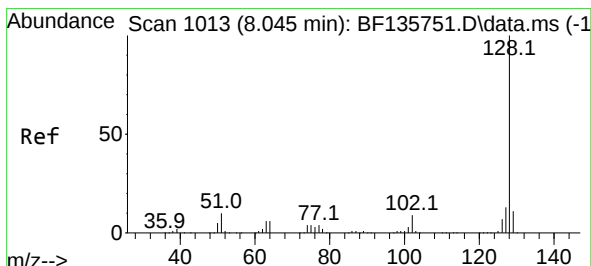
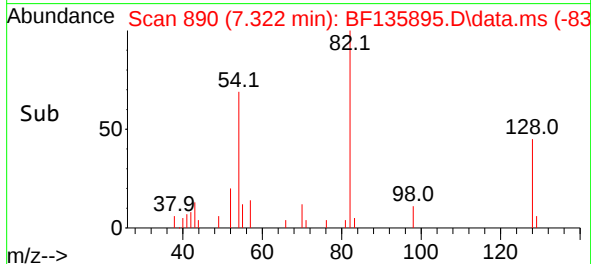
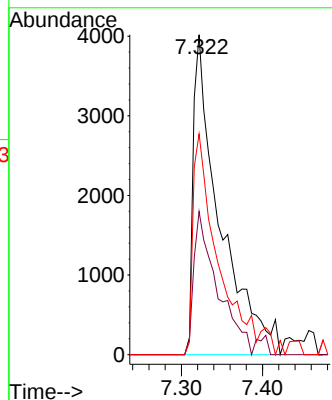
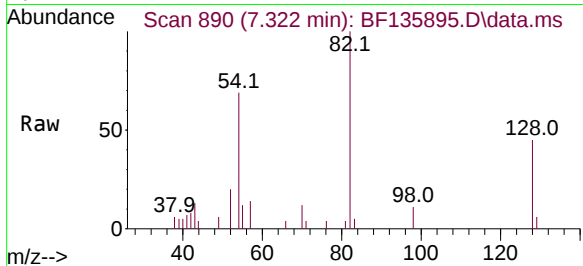
Tgt Ion: 82 Resp: 9081

Ion Ratio Lower Upper

82 100

128 44.8 37.0 55.6

54 69.0 52.8 79.2



#31

Naphthalene

Concen: 13.556 ng

RT: 8.033 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

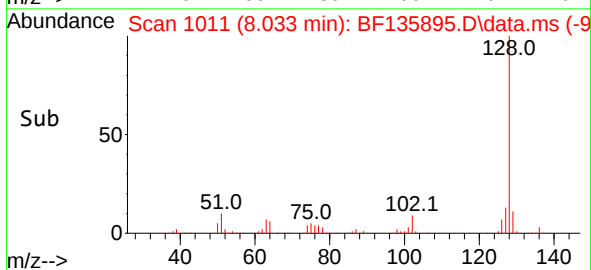
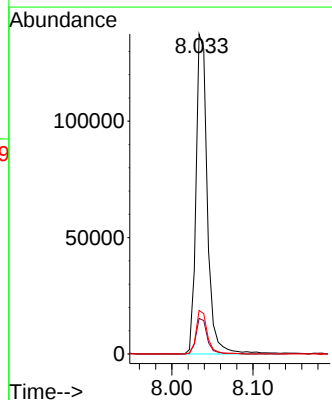
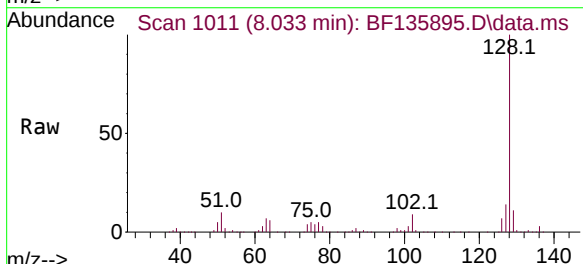
Tgt Ion: 128 Resp: 134577

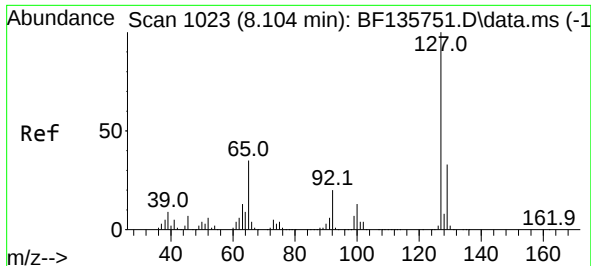
Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

127 13.6 10.2 15.4

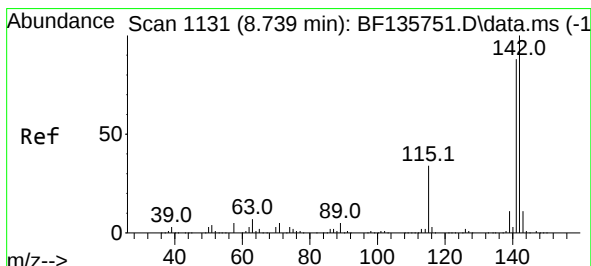
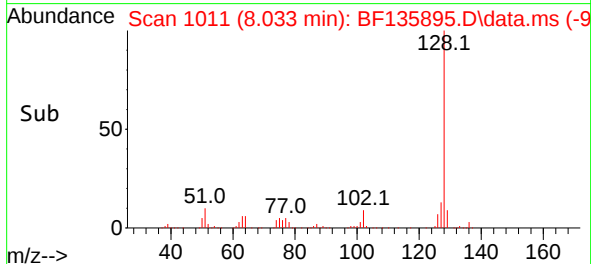
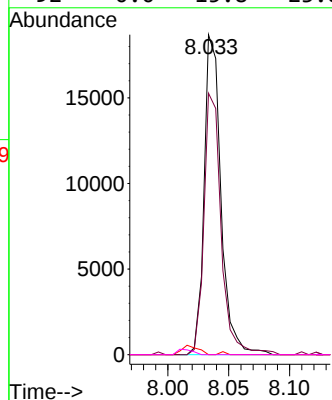
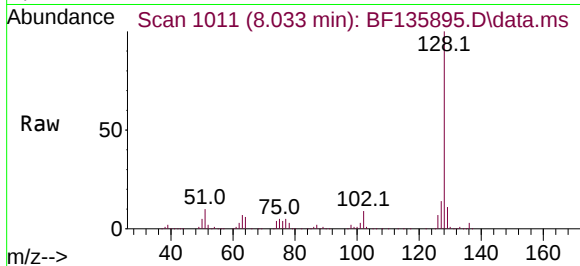




#33
4-Chloroaniline
Concen: 4.157 ng
RT: 8.033 min Scan# 110
Delta R.T. -0.071 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

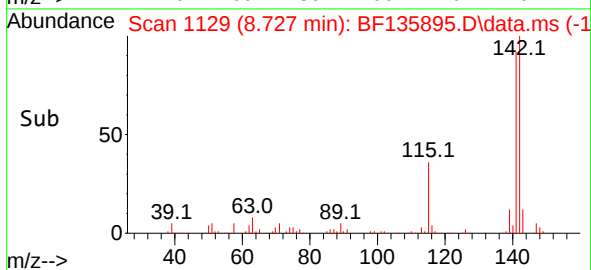
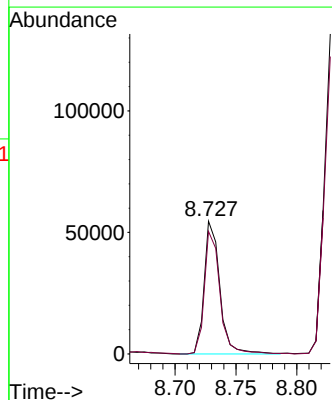
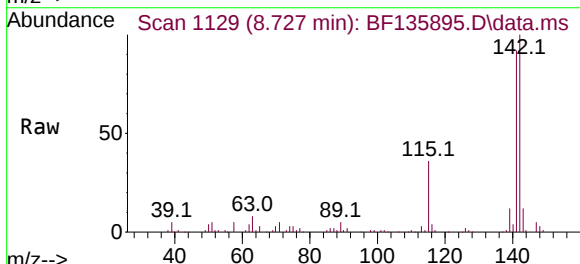
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

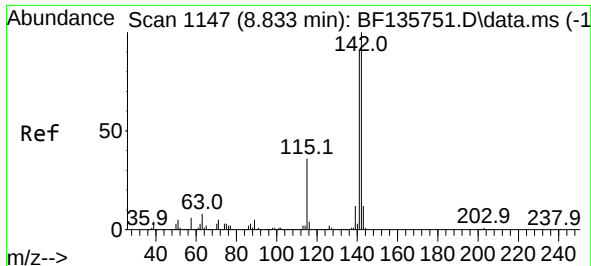
Tgt Ion:127	Resp:	18026
Ion Ratio	Lower	Upper
127	100	
129	81.7	26.5 39.7#
65	0.0	27.9 41.9#
92	0.0	15.8 23.8#



#37
2-Methylnaphthalene
Concen: 7.480 ng
RT: 8.727 min Scan# 1129
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:142	Resp:	48922
Ion Ratio	Lower	Upper
142	100	
141	92.3	70.6 105.8

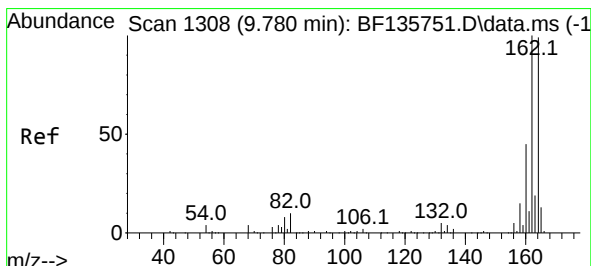
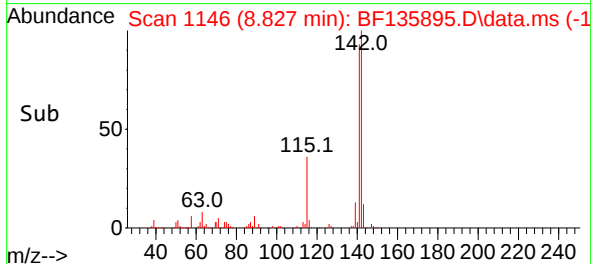
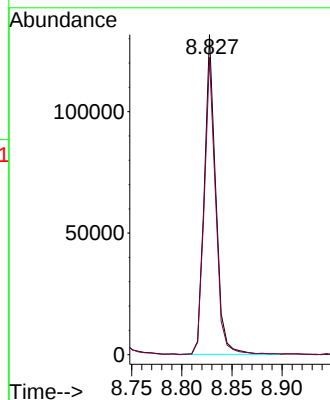
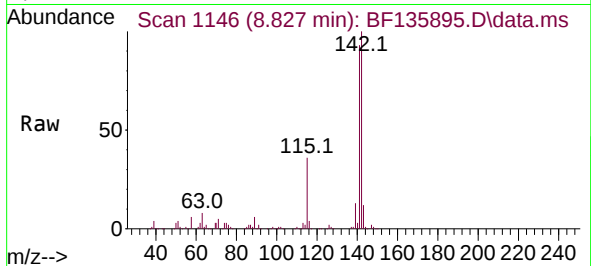




#38
1-Methylnaphthalene
Concen: 17.343 ng
RT: 8.827 min Scan# 1146
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

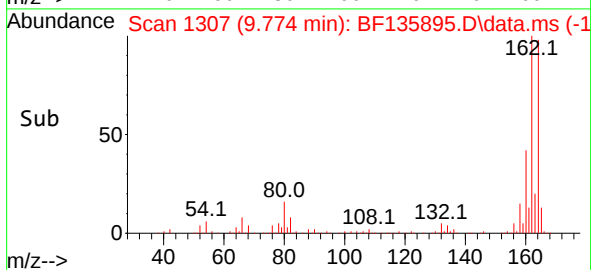
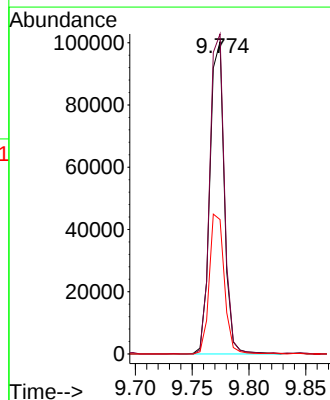
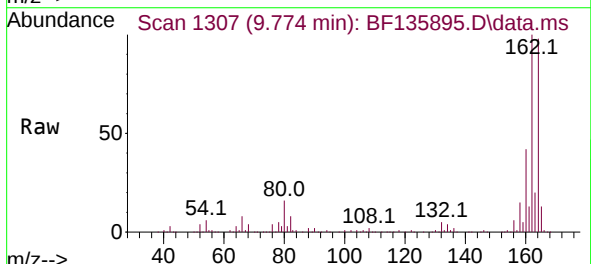
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

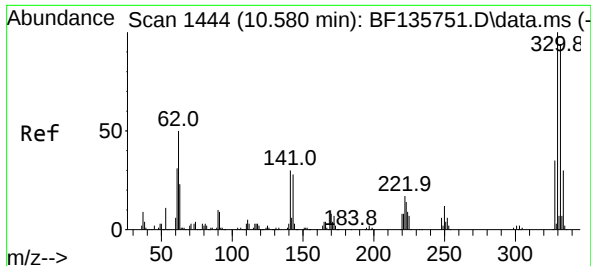
Tgt Ion:142 Resp: 104626
Ion Ratio Lower Upper
142 100
141 92.9 72.7 109.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:164 Resp: 88532
Ion Ratio Lower Upper
164 100
162 102.5 80.8 121.2
160 43.1 36.6 54.8





#42

2,4,6-Tribromophenol

Concen: 3.210 ng

RT: 10.580 min Scan# 1444

Delta R.T. -0.006 min

Lab File: BF135895.D

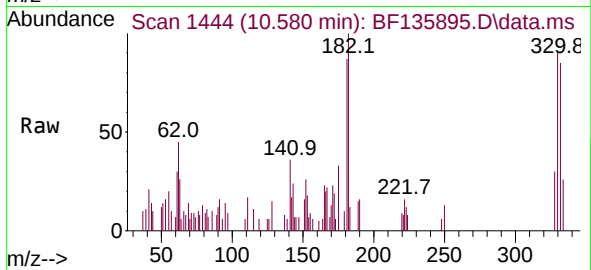
Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL



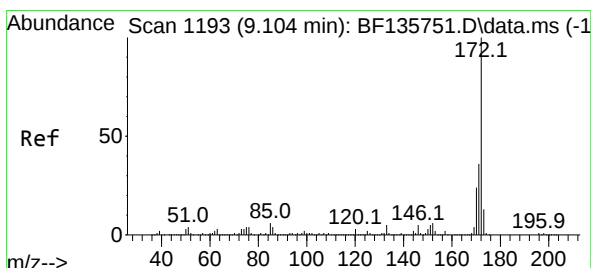
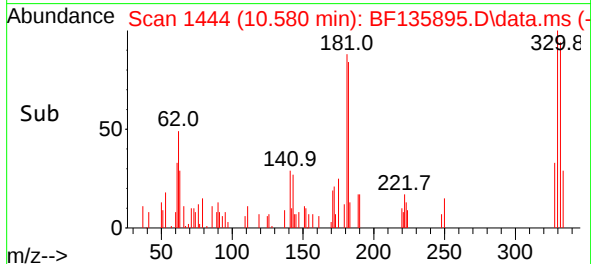
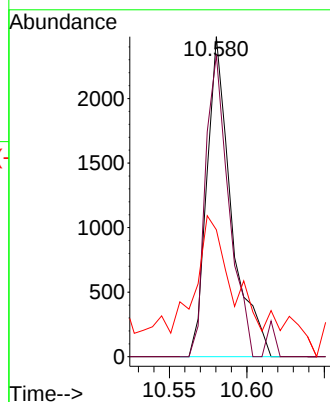
Tgt Ion:330 Resp: 2727

Ion Ratio Lower Upper

330 100

332 90.1 75.0 112.4

141 49.0 25.8 38.6#



#45

2-Fluorobiphenyl

Concen: 3.531 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

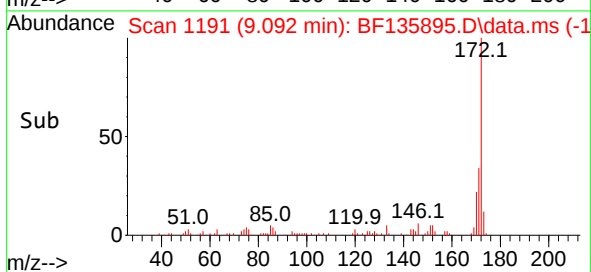
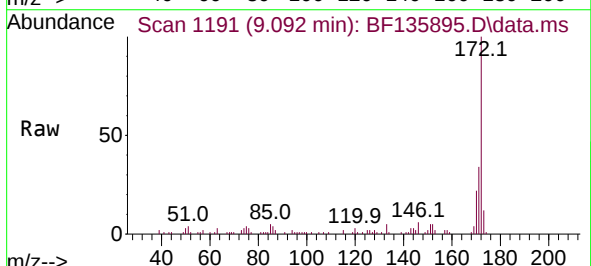
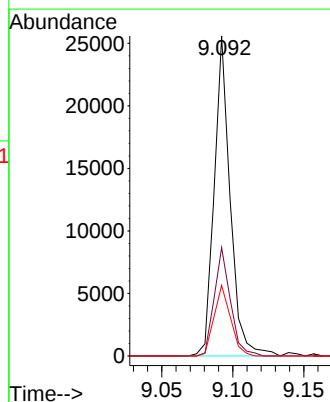
Tgt Ion:172 Resp: 19995

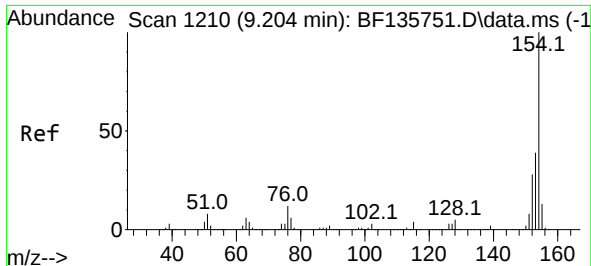
Ion Ratio Lower Upper

172 100

171 33.8 28.4 42.6

170 22.0 18.8 28.2





#46

1,1'-Biphenyl

Concen: 3.052 ng

RT: 9.192 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

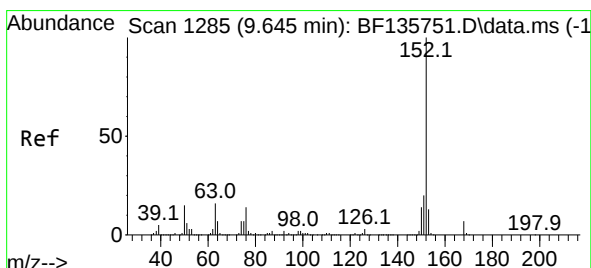
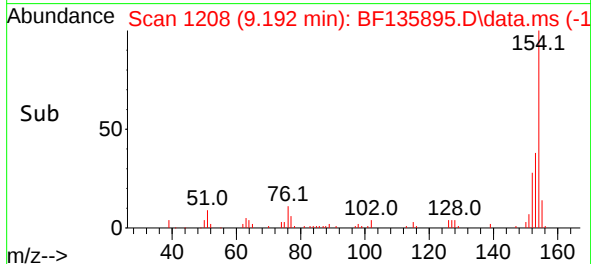
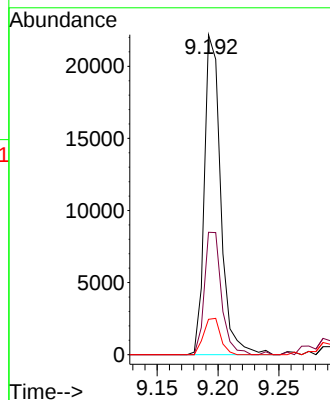
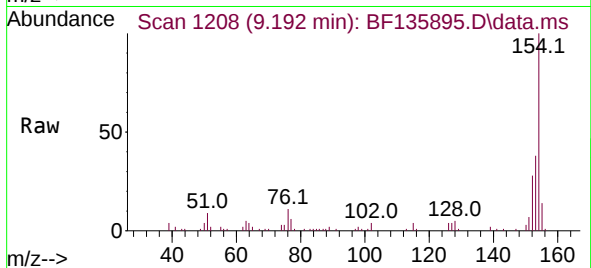
Tgt Ion:154 Resp: 20700

Ion Ratio Lower Upper

154 100

153 38.3 19.4 59.4

76 11.1 0.0 31.7



#49

Acenaphthylene

Concen: 7.222 ng

RT: 9.633 min Scan# 1283

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

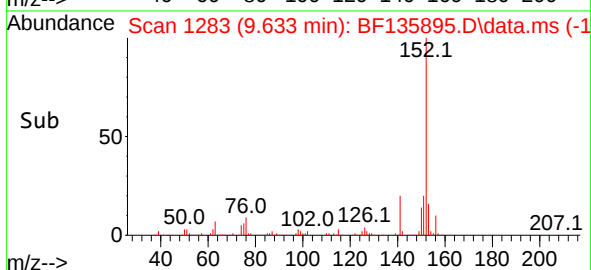
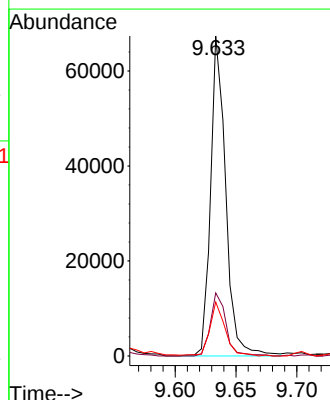
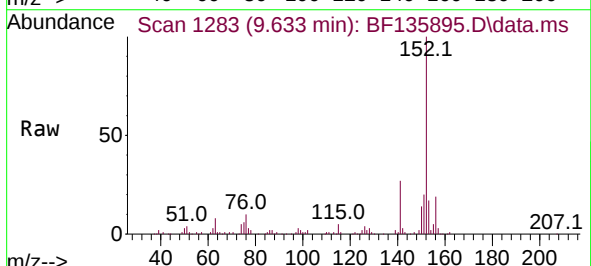
Tgt Ion:152 Resp: 58414

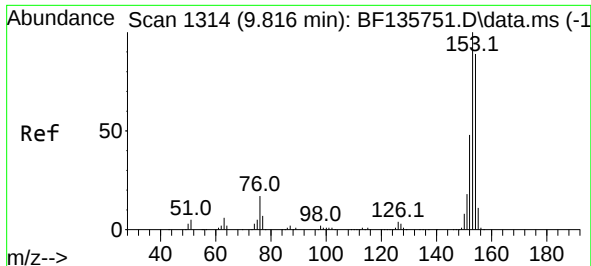
Ion Ratio Lower Upper

152 100

151 19.7 16.2 24.2

153 16.8 10.2 15.4#

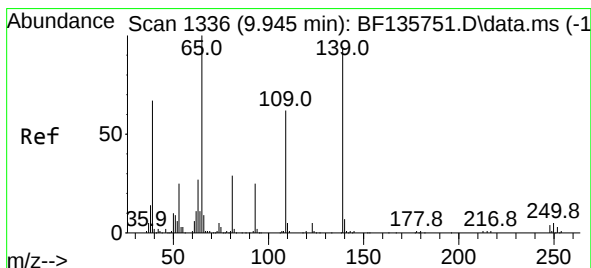
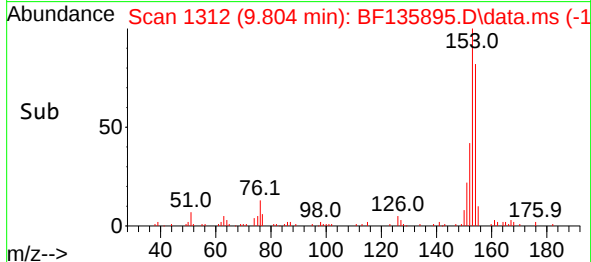
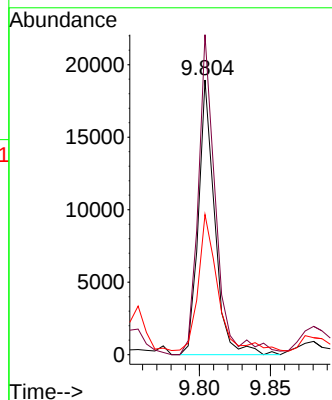
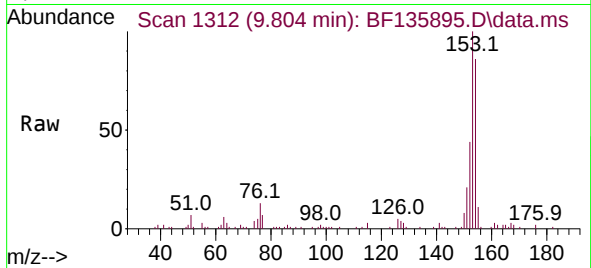




#52
Acenaphthene
Concen: 3.119 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

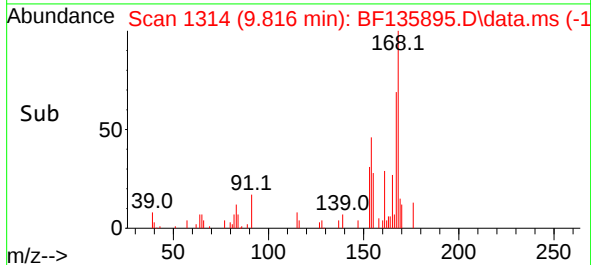
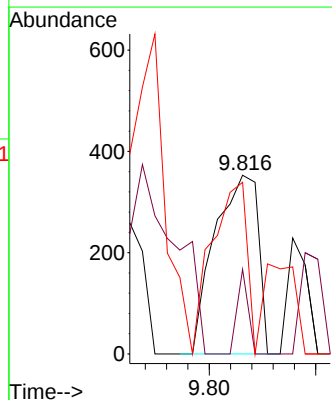
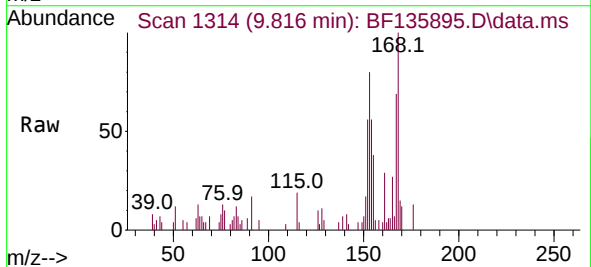
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

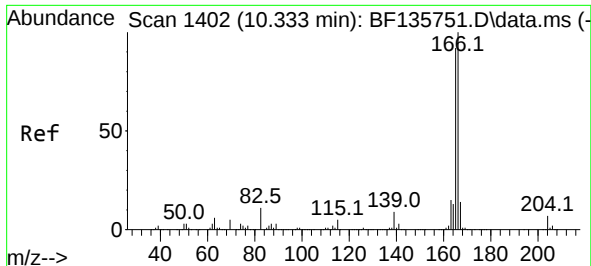
Tgt Ion:154 Resp: 15120
Ion Ratio Lower Upper
154 100
153 116.5 90.1 135.1
152 51.0 43.1 64.7



#56
4-Nitrophenol
Concen: 6.139 ng
RT: 9.816 min Scan# 1314
Delta R.T. -0.130 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:139 Resp: 501
Ion Ratio Lower Upper
139 100
109 47.3 45.6 85.6
65 96.0 87.5 127.5

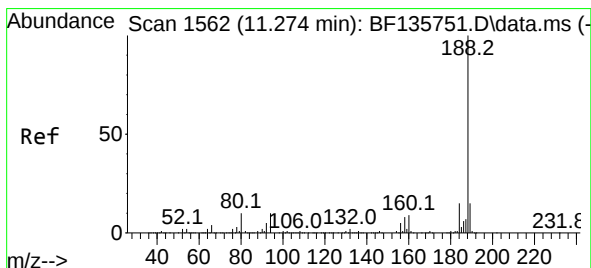
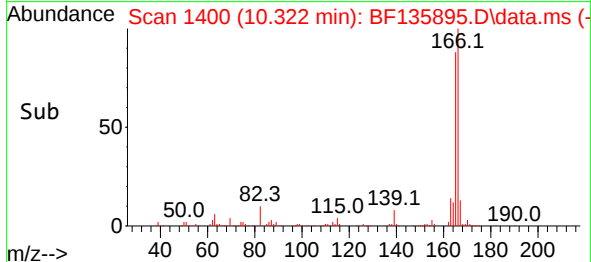
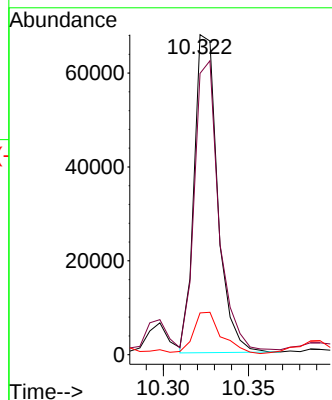
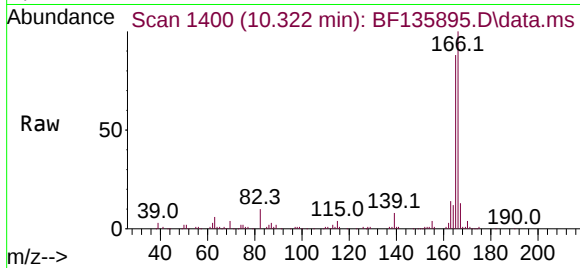




#58
Fluorene
Concen: 11.354 ng
RT: 10.322 min Scan# 1402
Delta R.T. -0.018 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

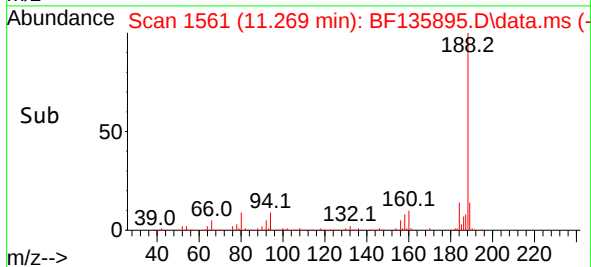
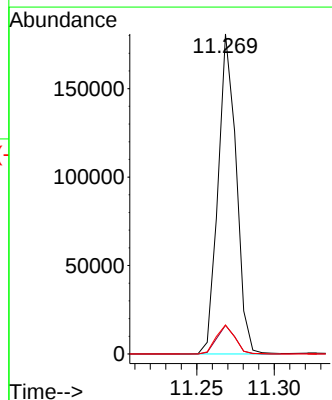
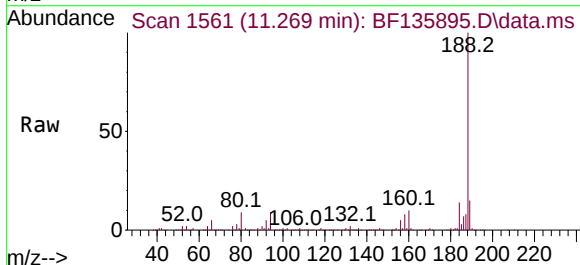
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

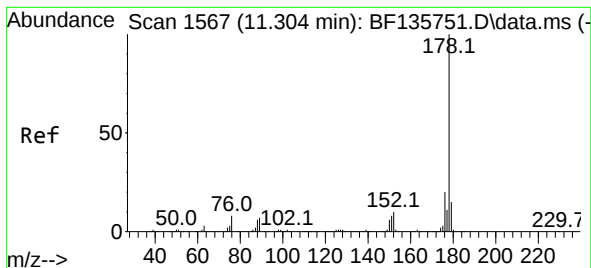
Tgt Ion:166 Resp: 65023
Ion Ratio Lower Upper
166 100
165 87.9 73.4 110.0
167 13.0 11.0 16.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:188 Resp: 147628
Ion Ratio Lower Upper
188 100
94 9.0 8.0 12.0
80 9.0 8.3 12.5





#71

Phenanthrene

Concen: 41.673 ng

RT: 11.292 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

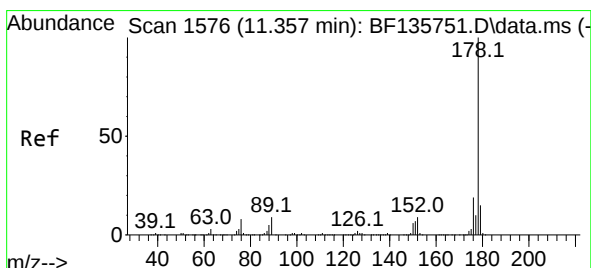
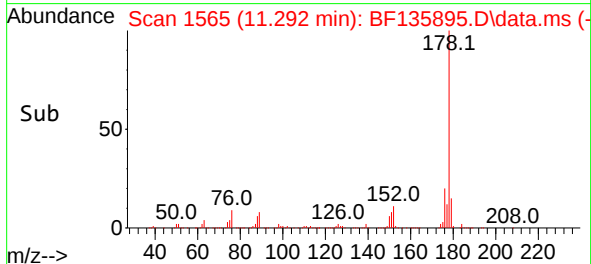
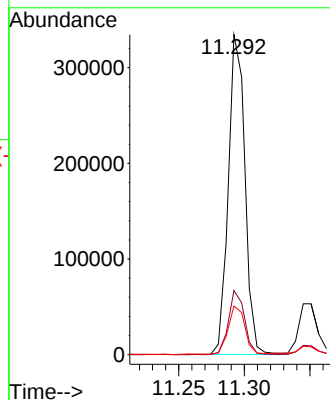
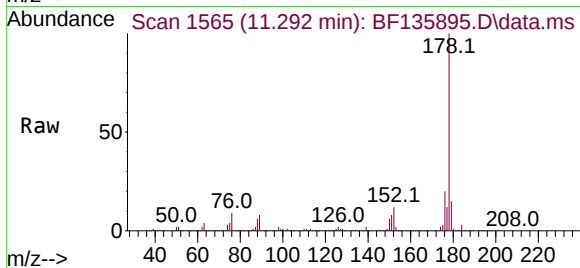
Tgt Ion:178 Resp: 294717

Ion Ratio Lower Upper

178 100

176 20.1 16.0 24.0

179 15.2 12.2 18.4



#72

Anthracene

Concen: 7.432 ng

RT: 11.345 min Scan# 1574

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

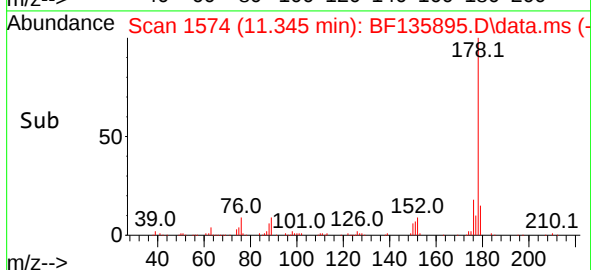
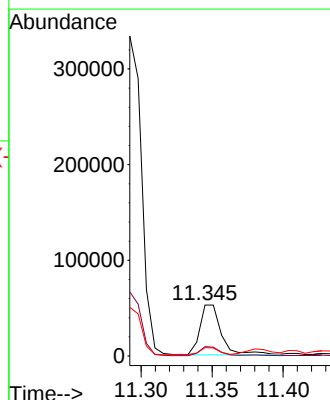
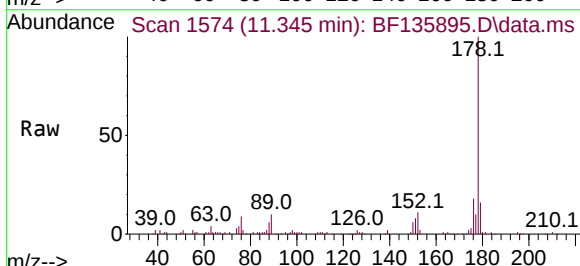
Tgt Ion:178 Resp: 54461

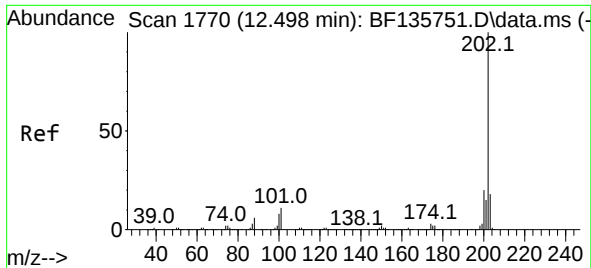
Ion Ratio Lower Upper

178 100

176 18.2 15.1 22.7

179 16.3 12.3 18.5

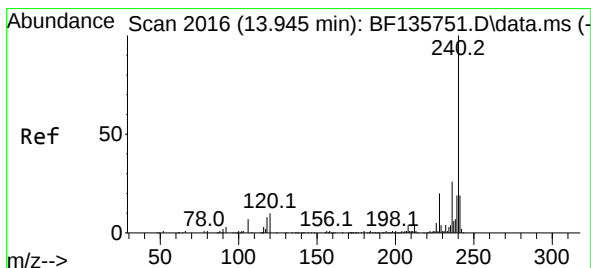
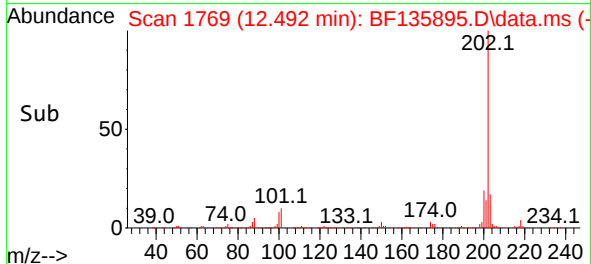
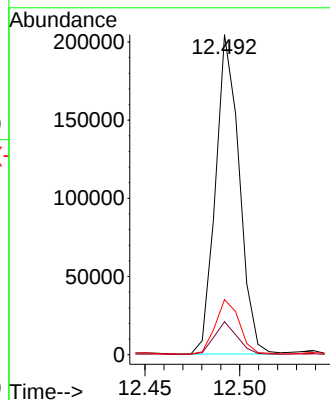
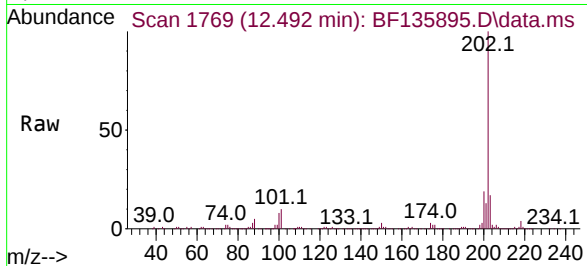




#75
Fluoranthene
Concen: 22.709 ng
RT: 12.492 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

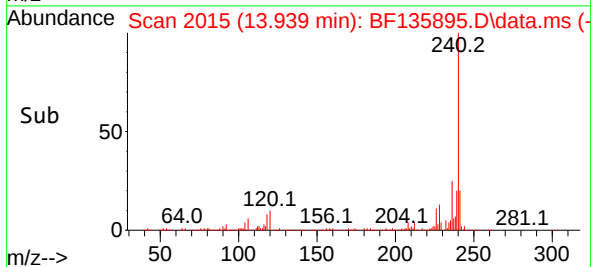
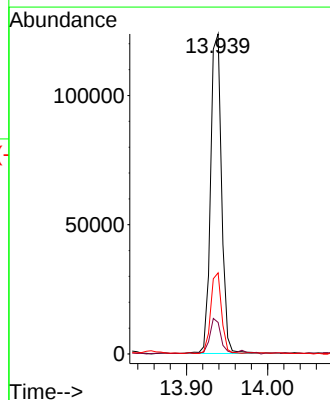
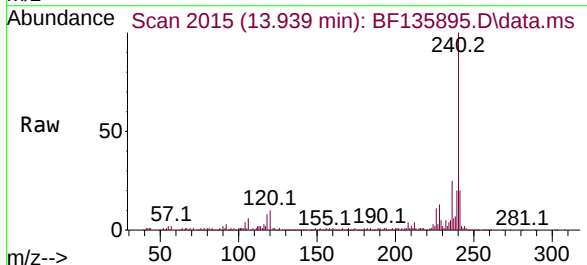
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

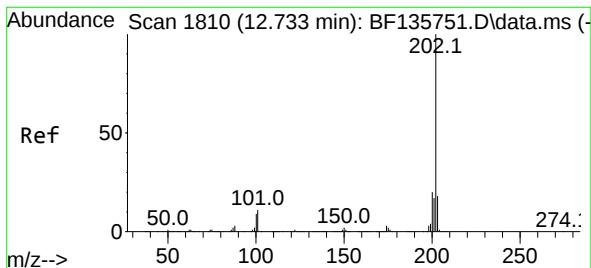
Tgt Ion:202 Resp: 178245
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.5
203 17.2 0.0 38.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF135895.D
Acq: 19 Oct 2023 19:49

Tgt Ion:240 Resp: 116014
Ion Ratio Lower Upper
240 100
120 9.9 8.2 12.2
236 25.3 21.2 31.8





#78

Pyrene

Concen: 30.518 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

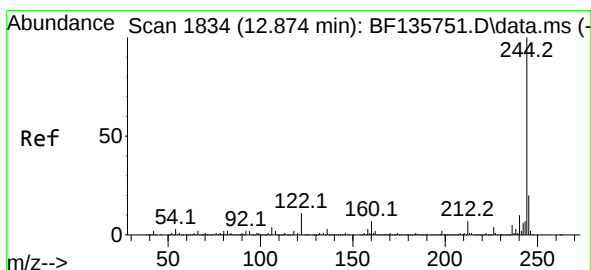
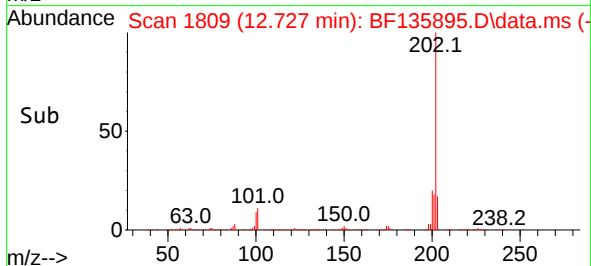
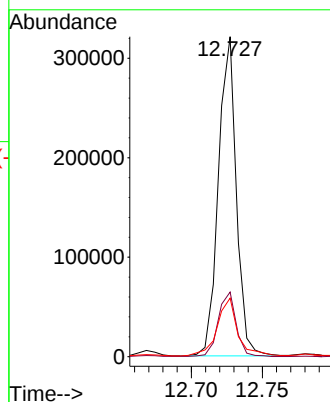
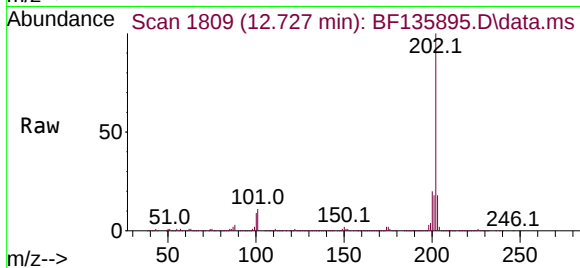
Tgt Ion:202 Resp: 281350

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

203 18.3 14.2 21.2



#79

Terphenyl-d14

Concen: 2.992 ng

RT: 12.863 min Scan# 1832

Delta R.T. -0.018 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

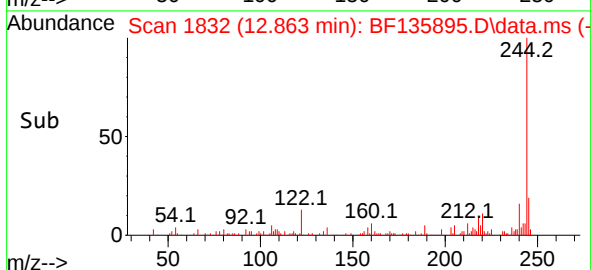
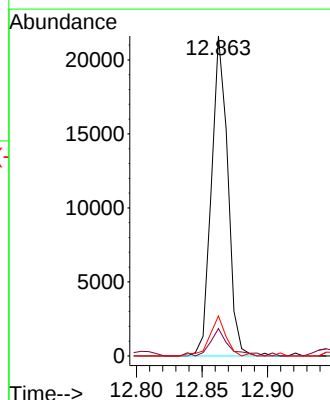
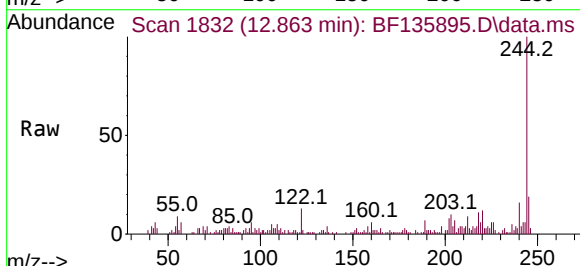
Tgt Ion:244 Resp: 18744

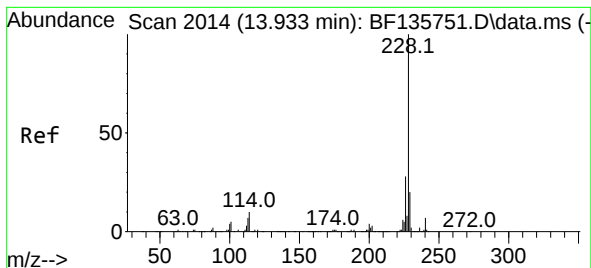
Ion Ratio Lower Upper

244 100

212 8.5 5.6 8.4#

122 12.5 9.0 13.6





#81

Benzo(a)anthracene

Concen: 13.829 ng

RT: 13.927 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

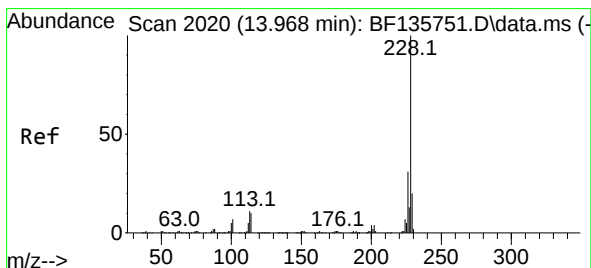
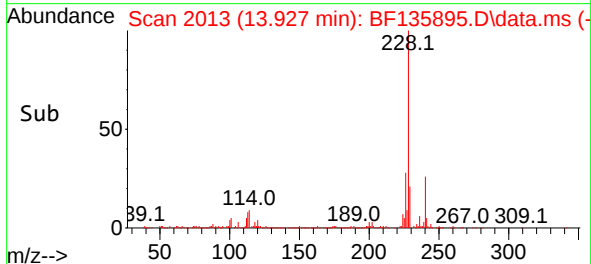
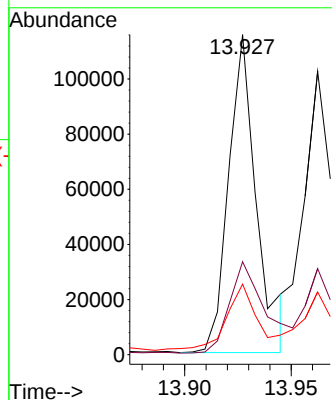
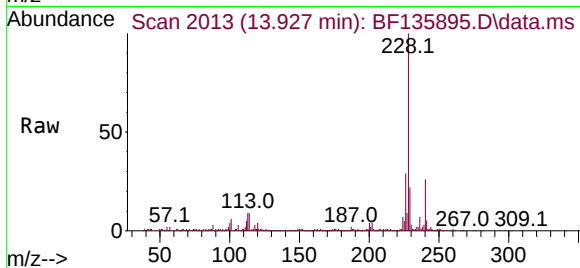
Tgt Ion:228 Resp: 105384

Ion Ratio Lower Upper

228 100

226 29.0 22.2 33.2

229 22.1 16.1 24.1



#83

Chrysene

Concen: 12.711 ng

RT: 13.962 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

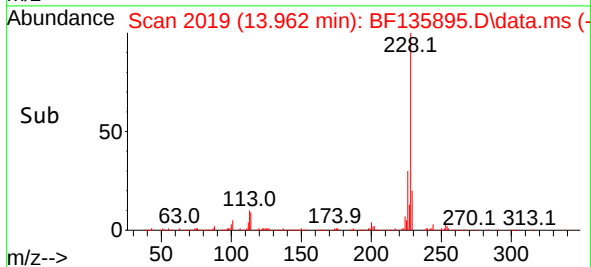
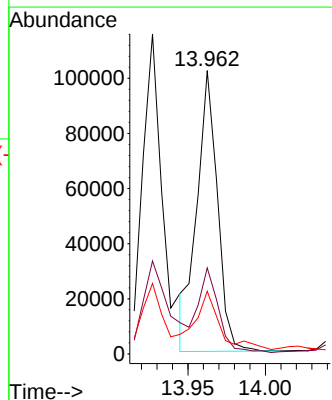
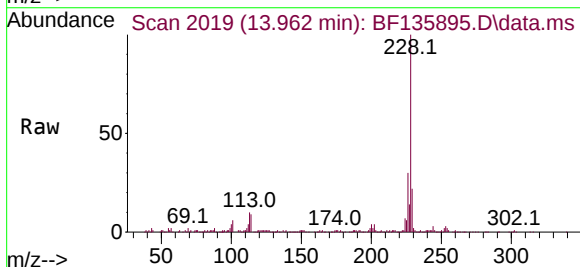
Tgt Ion:228 Resp: 93815

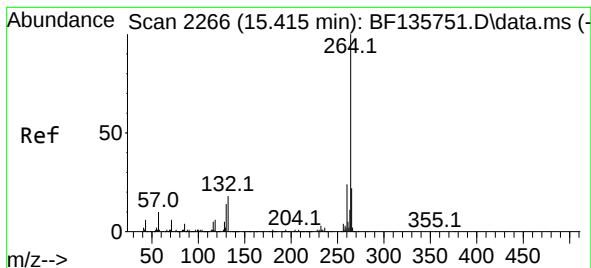
Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 22.1 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

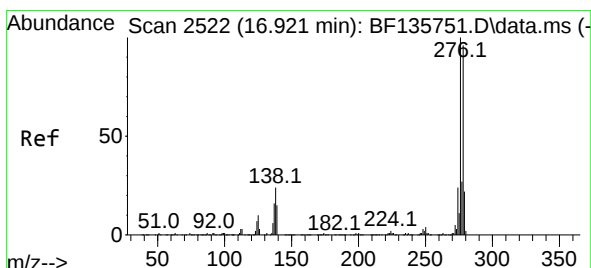
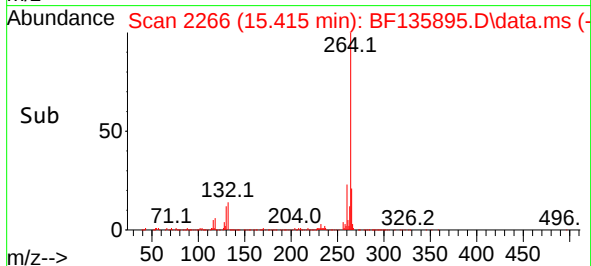
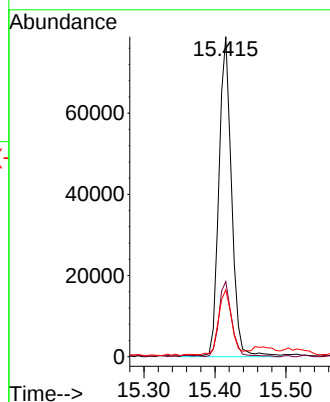
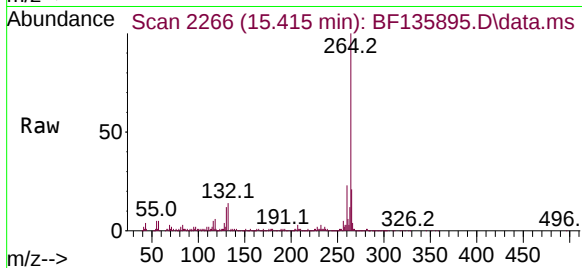
Tgt Ion:264 Resp: 97445

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

265 20.9 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.818 ng

RT: 16.927 min Scan# 2523

Delta R.T. -0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

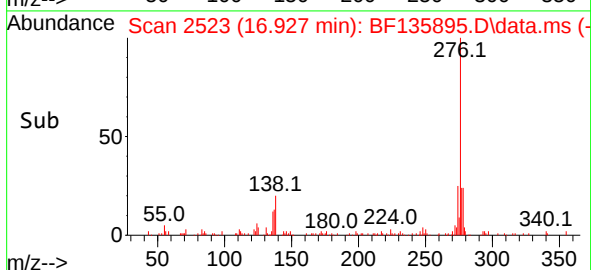
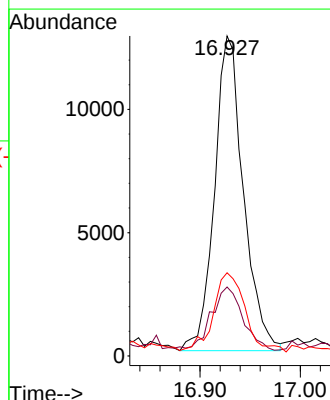
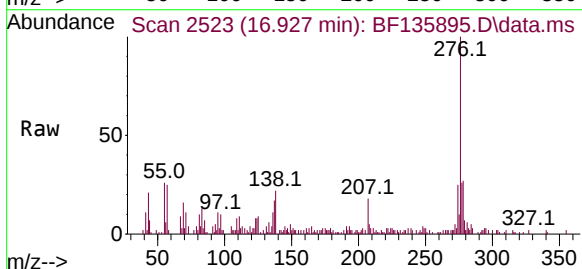
Tgt Ion:276 Resp: 25579

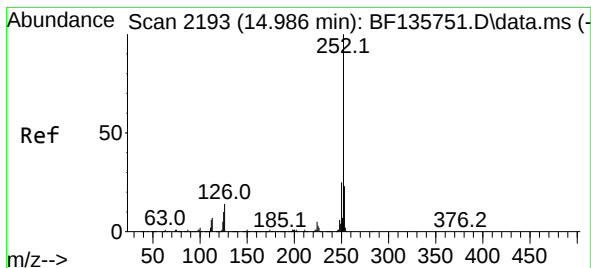
Ion Ratio Lower Upper

276 100

138 21.6 19.8 29.6

277 27.5 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 14.835 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

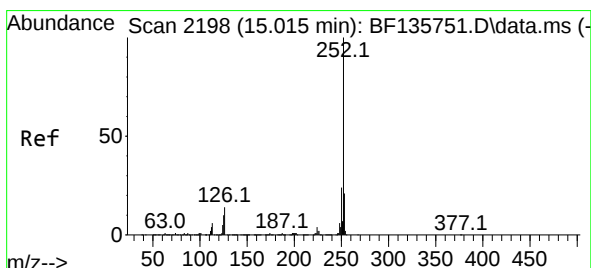
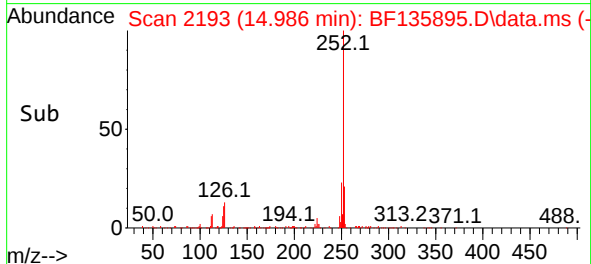
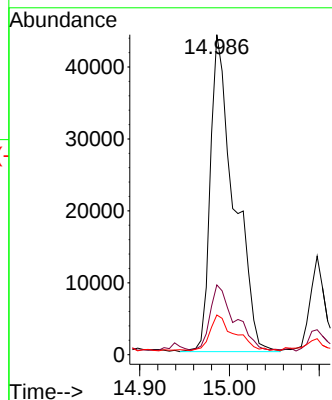
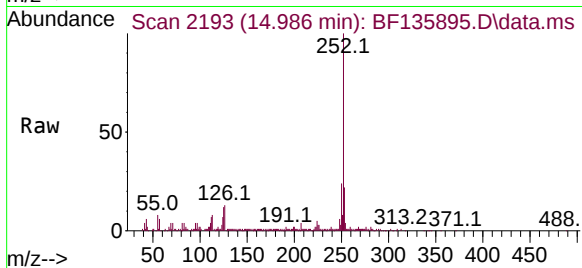
Tgt Ion:252 Resp: 80905

Ion Ratio Lower Upper

252 100

253 21.8 18.2 27.2

125 12.4 8.2 12.2#



#89

Benzo(k)fluoranthene

Concen: 15.280 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.036 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

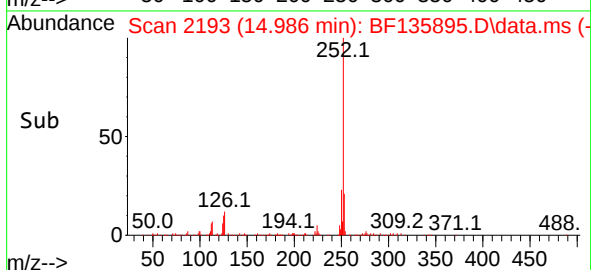
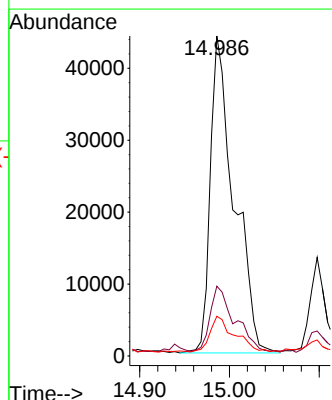
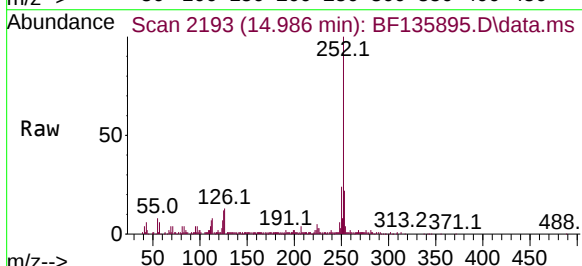
Tgt Ion:252 Resp: 80905

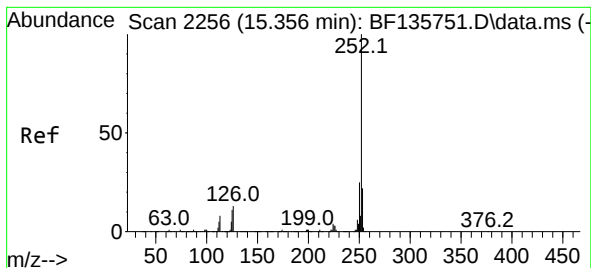
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

125 12.4 8.3 12.5





#90

Benzo(a)pyrene

Concen: 12.014 ng

RT: 15.356 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Instrument :

BNL_F

ClientSampleId :

R-3(10-15)DL

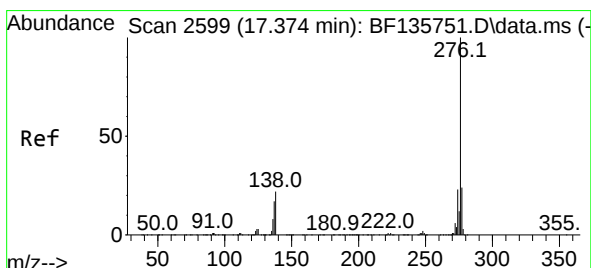
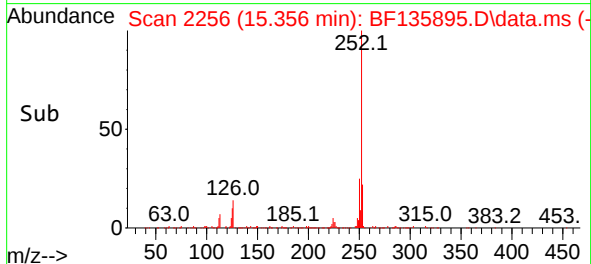
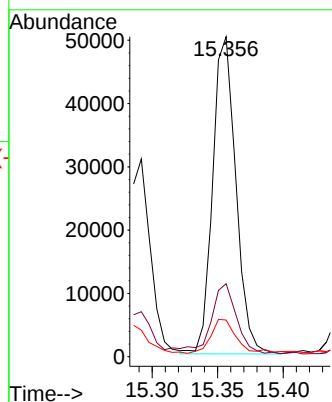
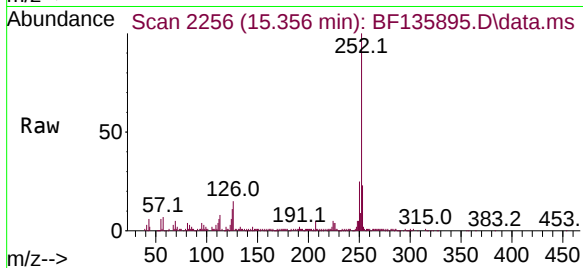
Tgt Ion:252 Resp: 61610

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

125 11.5 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 6.115 ng

RT: 17.386 min Scan# 2601

Delta R.T. -0.000 min

Lab File: BF135895.D

Acq: 19 Oct 2023 19:49

Tgt Ion:276 Resp: 27342

Ion Ratio Lower Upper

276 100

277 32.5 19.4 29.2#

138 23.5 17.3 25.9

