

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
 Data File : BF136041.D
 Acq On : 30 Oct 2023 22:04
 Operator : CG\JU
 Sample : 04704-02DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

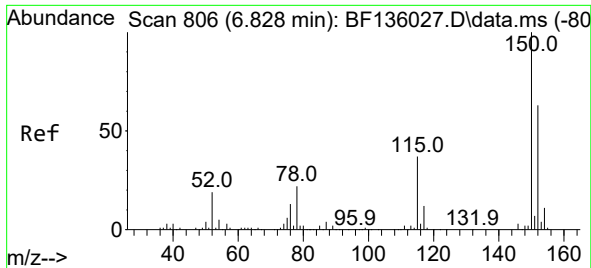
Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)DL

Quant Time: Oct 31 01:42:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	163898	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	622938	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	280080	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	428823	20.000	ng	0.00
76) Chrysene-d12	14.010	240	327612	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	249873	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	224963	21.569	ng	0.00
7) Phenol-d6	6.445	99	276288	21.261	ng	-0.01
23) Nitrobenzene-d5	7.381	82	144478	13.981	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	52791	17.659	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	293839	16.724	ng	0.00
79) Terphenyl-d14	12.951	244	281046	13.331	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.381	70	18324	2.468	ng	# 80
25) Isophorone	7.381	82	144474	7.406	ng	# 64
31) Naphthalene	8.122	128	221360	7.369	ng	99
32) Benzoic acid	7.887	122	175	5.136	ng	# 22
33) 4-Chloroaniline	8.122	127	29129	2.214	ng	# 31
37) 2-Methylnaphthalene	8.816	142	73819	3.665	ng	99
38) 1-Methylnaphthalene	8.916	142	91857	4.901	ng	99
50) Dimethylphthalate	9.863	163	57570	3.116	ng	# 1
51) 2,6-Dinitrotoluene	9.863	165	38572	9.762	ng	# 28
52) Acenaphthene	9.892	154	43697	2.799	ng	97
55) Dibenzofuran	10.069	168	53609	2.355	ng	# 95
58) Fluorene	10.410	166	137861	8.090	ng	99
65) 4,6-Dinitro-2-methylph...	10.645	198	146	5.845	ng	# 1
71) Phenanthrene	11.380	178	691348	32.020	ng	99
72) Anthracene	11.428	178	124821	5.642	ng	97
75) Fluoranthene	12.574	202	417252	18.811	ng	99
78) Pyrene	12.804	202	431872	14.952	ng	98
81) Benzo(a)anthracene	14.039	228	138291	6.376	ng	96
83) Chrysene	14.039	228	138291	6.474	ng	97
87) Indeno(1,2,3-cd)pyrene	17.009	276	41457	2.539	ng	# 92
88) Benzo(b)fluoranthene	15.063	252	136394	9.225	ng	# 92
89) Benzo(k)fluoranthene	15.063	252	136394	9.323	ng	# 92
90) Benzo(a)pyrene	15.439	252	85810	6.246	ng	96
92) Benzo(g,h,i)perylene	17.468	276	39998	5.363	ng	96

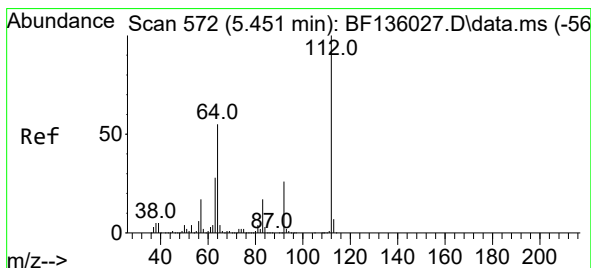
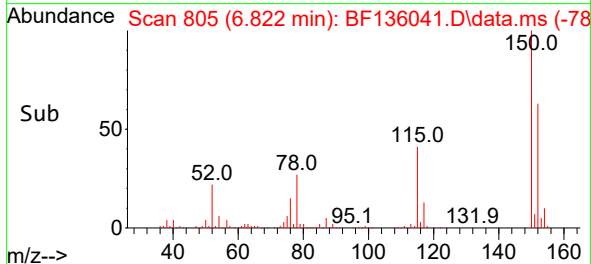
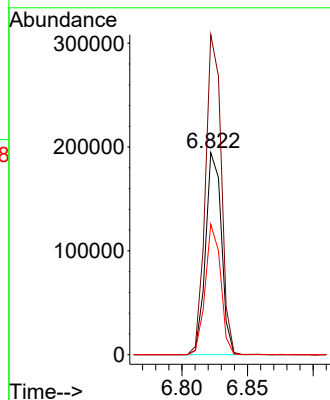
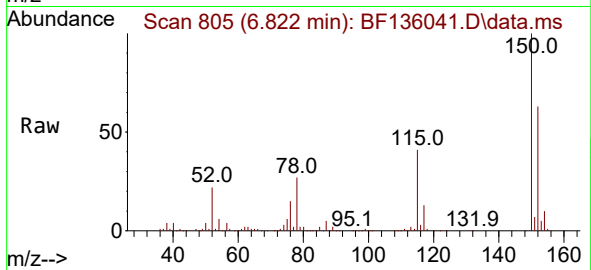
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.822 min Scan# 806
 Delta R.T. -0.006 min
 Lab File: BF136041.D
 Acq: 30 Oct 2023 22:04

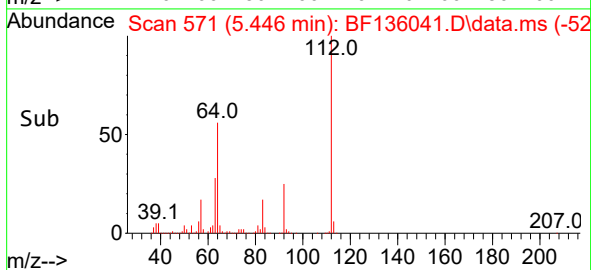
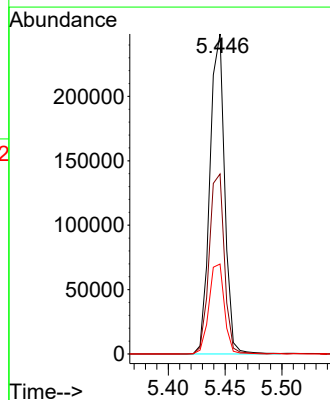
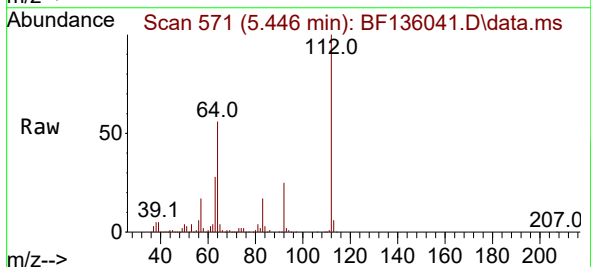
Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)DL

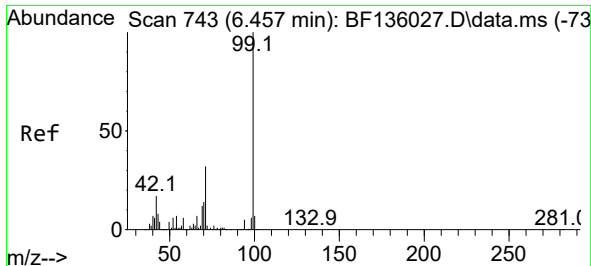
Tgt Ion:152 Resp: 163898
 Ion Ratio Lower Upper
 152 100
 150 158.3 126.4 189.6
 115 64.6 47.0 70.4



#5
 2-Fluorophenol
 Concen: 21.569 ng
 RT: 5.446 min Scan# 571
 Delta R.T. -0.006 min
 Lab File: BF136041.D
 Acq: 30 Oct 2023 22:04

Tgt Ion:112 Resp: 224963
 Ion Ratio Lower Upper
 112 100
 64 56.2 43.9 65.9
 63 28.1 22.4 33.6

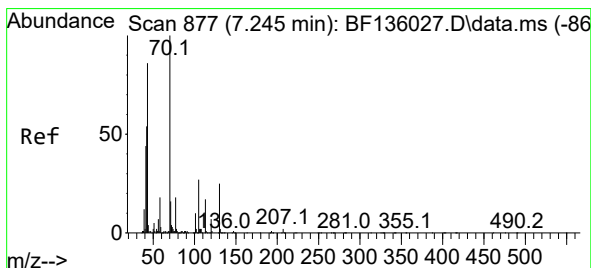
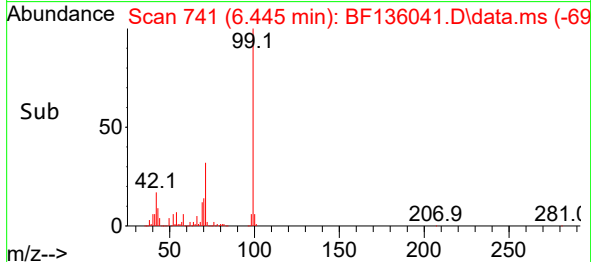
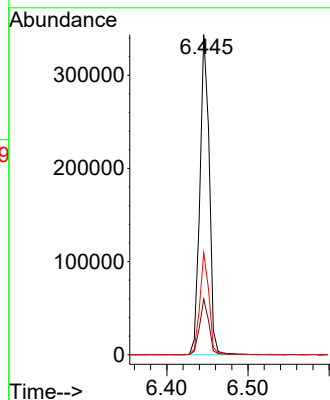
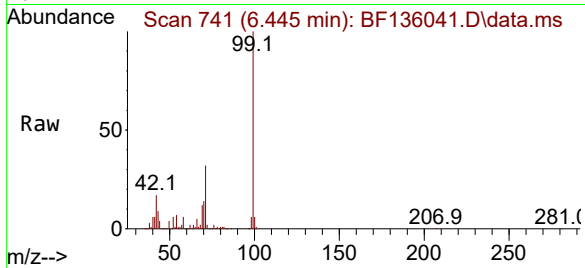




#7
Phenol-d6
Concen: 21.261 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

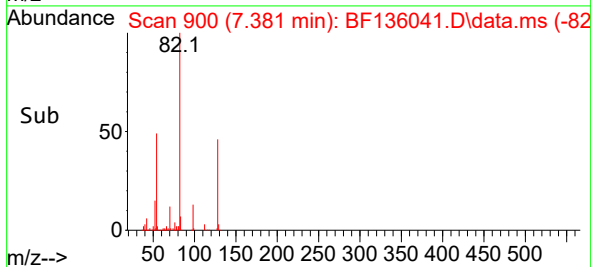
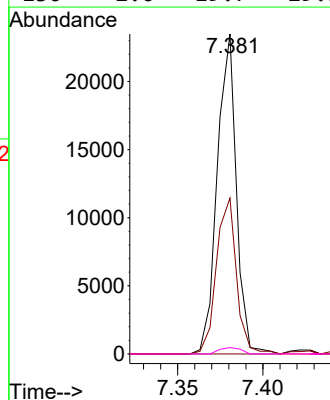
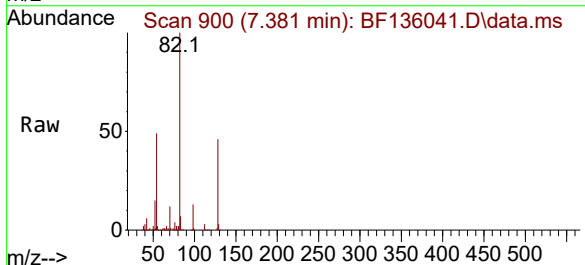
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

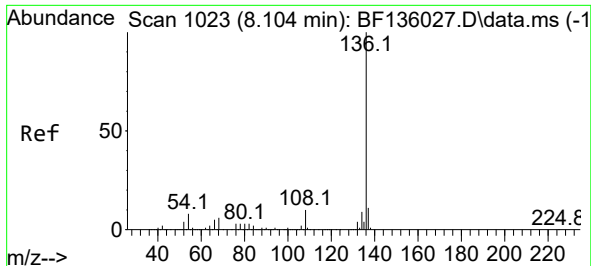
Tgt Ion: 99 Resp: 276288
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 31.8 25.9 38.9



#19
n-Nitroso-di-n-propylamine
Concen: 2.468 ng
RT: 7.381 min Scan# 900
Delta R.T. 0.135 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion: 70 Resp: 18324
Ion Ratio Lower Upper
70 100
42 48.7 43.0 64.4
101 0.0 8.0 12.0#
130 2.0 19.7 29.5#



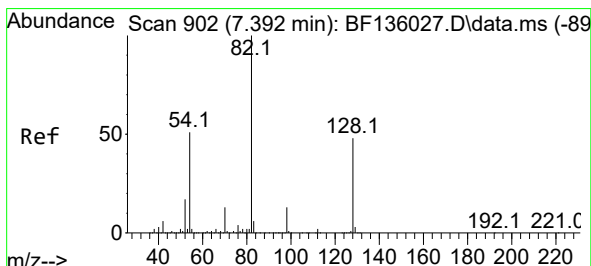
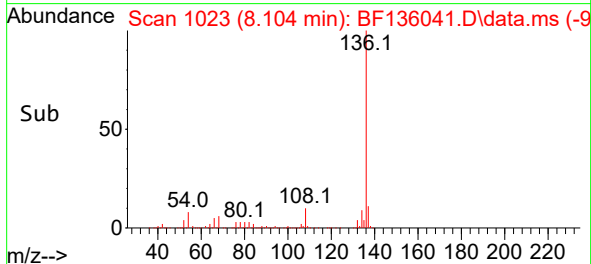
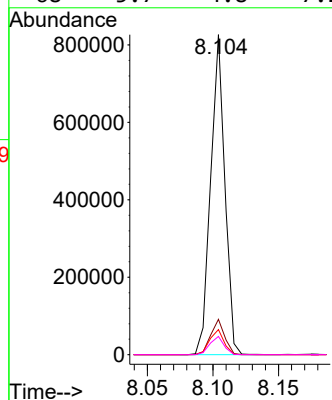
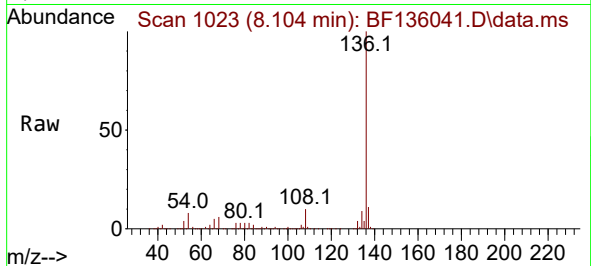


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

Tgt Ion:136 Resp: 622938

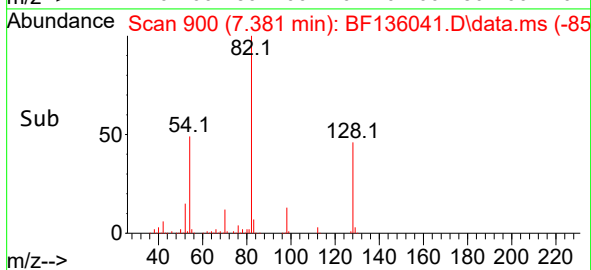
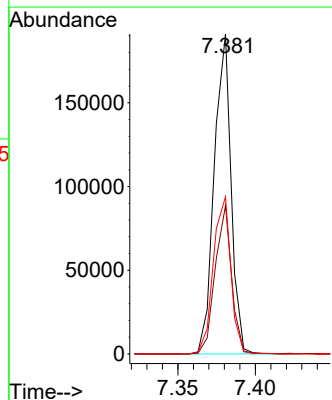
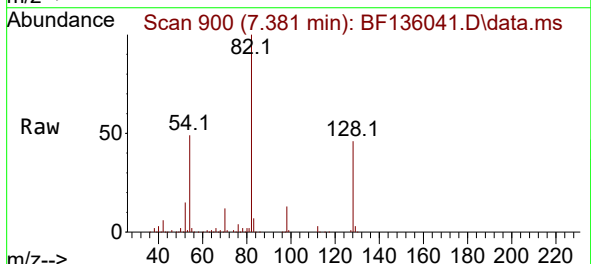
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	7.8	6.6	9.8
68	5.7	4.8	7.2

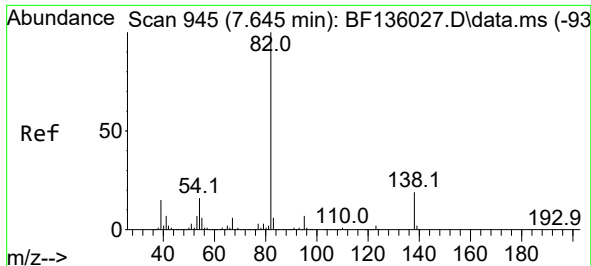


#23
Nitrobenzene-d5
Concen: 13.981 ng
RT: 7.381 min Scan# 900
Delta R.T. -0.012 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion: 82 Resp: 144478

Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.6	57.8
54	49.1	40.8	61.2

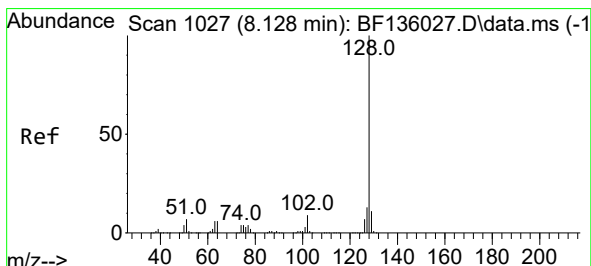
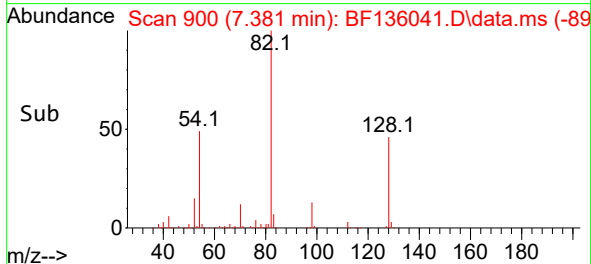
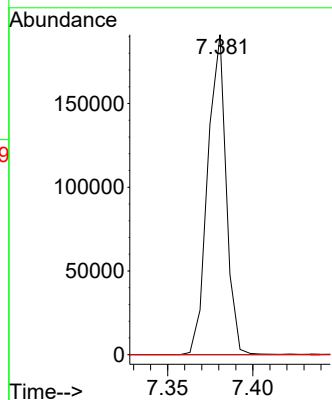
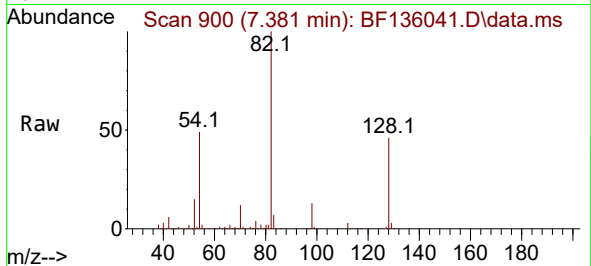




#25
Isophorone
Concen: 7.406 ng
RT: 7.381 min Scan# 90
Delta R.T. -0.264 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

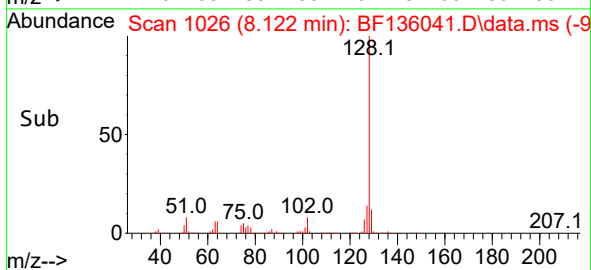
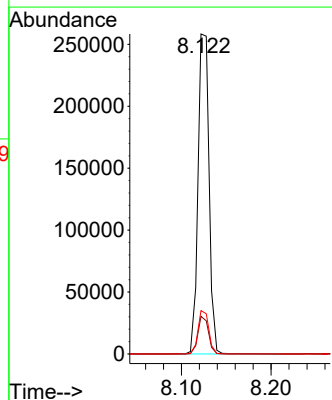
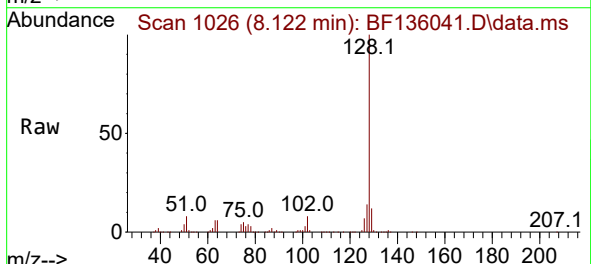
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

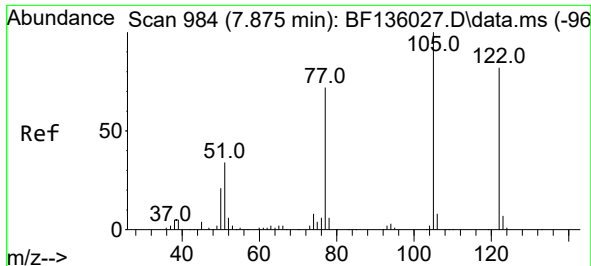
Tgt Ion: 82 Resp: 144474
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 15.3 22.9#



#31
Naphthalene
Concen: 7.369 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:128 Resp: 221360
Ion Ratio Lower Upper
128 100
129 11.7 8.9 13.3
127 13.5 10.5 15.7

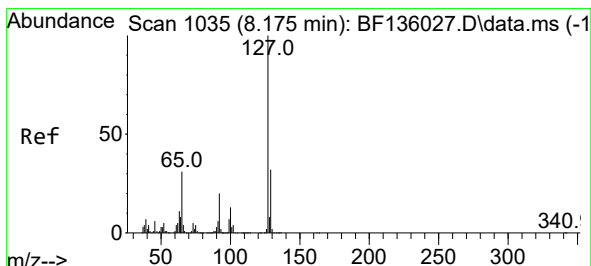
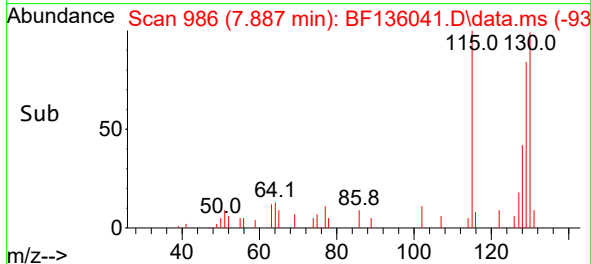
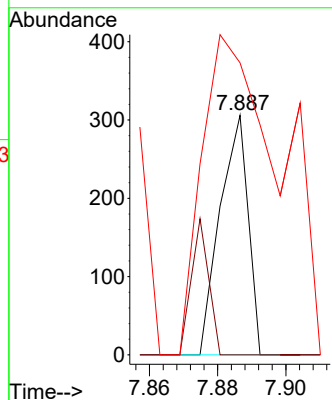
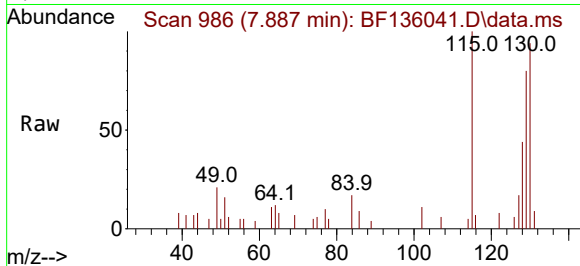




#32
Benzoic acid
Concen: 5.136 ng
RT: 7.887 min Scan# 91
Delta R.T. 0.012 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

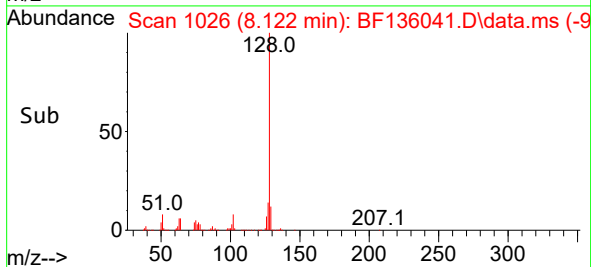
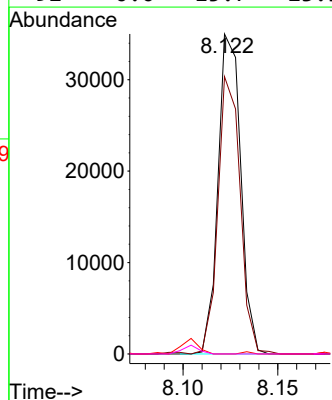
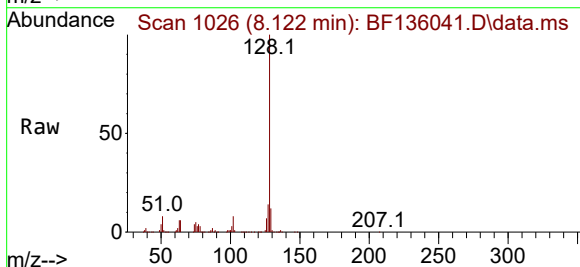
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

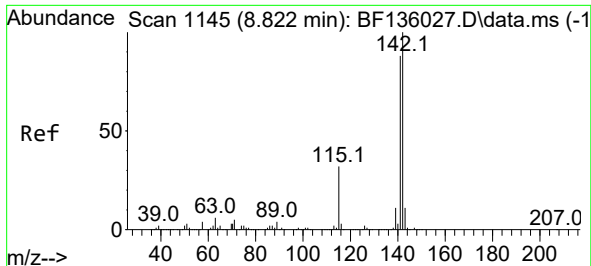
Tgt Ion:122 Resp: 175
Ion Ratio Lower Upper
122 100
105 0.0 99.5 139.5#
77 121.9 66.8 106.8#



#33
4-Chloroaniline
Concen: 2.214 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.053 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:127 Resp: 29129
Ion Ratio Lower Upper
127 100
129 86.7 25.9 38.9#
65 0.0 24.6 37.0#
92 0.0 15.7 23.5#





#37

2-Methylnaphthalene

Concen: 3.665 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

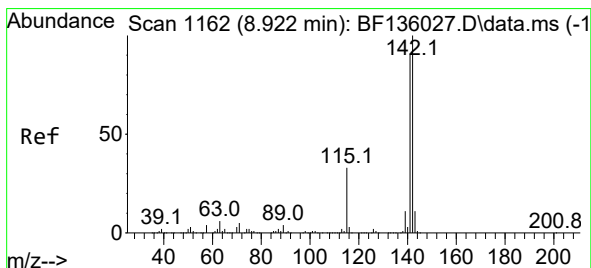
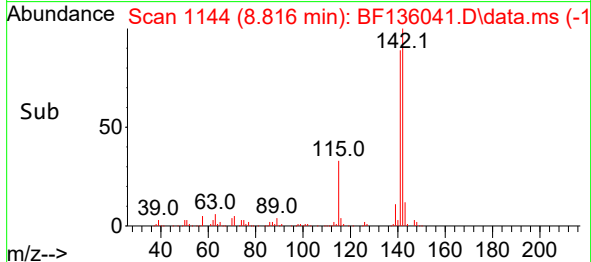
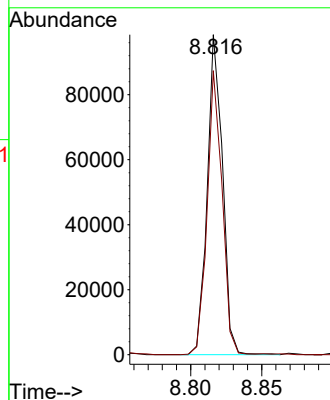
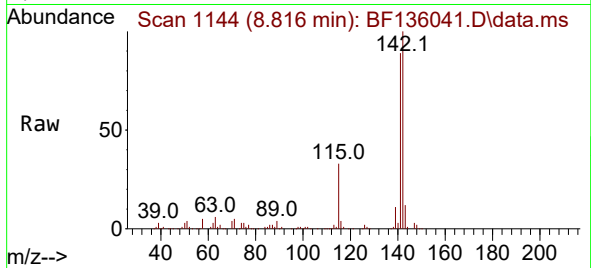
R-1(10-15)DL

Tgt Ion:142 Resp: 73819

Ion Ratio Lower Upper

142 100

141 88.8 70.4 105.6



#38

1-Methylnaphthalene

Concen: 4.901 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136041.D

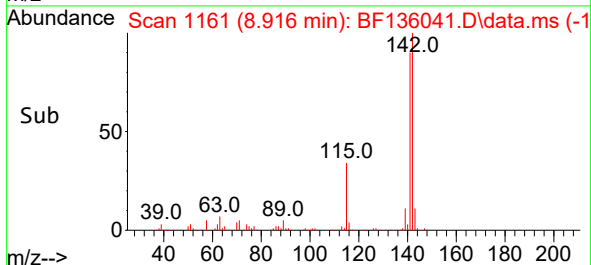
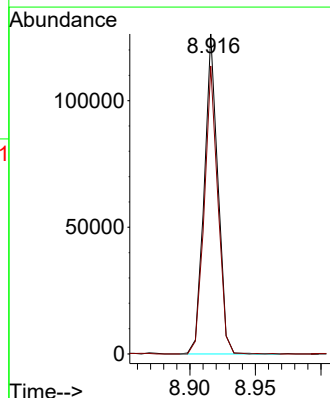
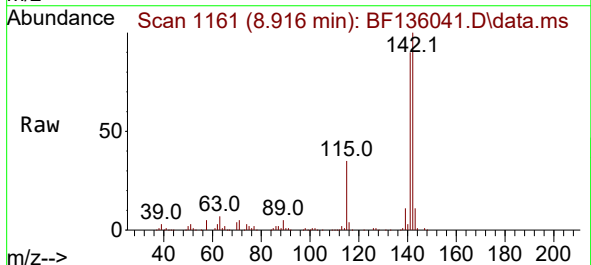
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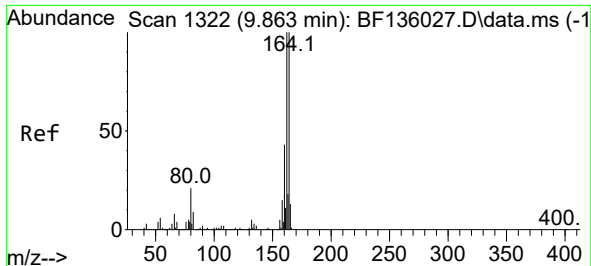
Tgt Ion:142 Resp: 91857

Ion Ratio Lower Upper

142 100

141 90.0 72.6 109.0

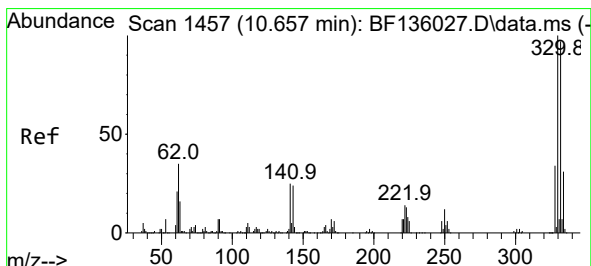
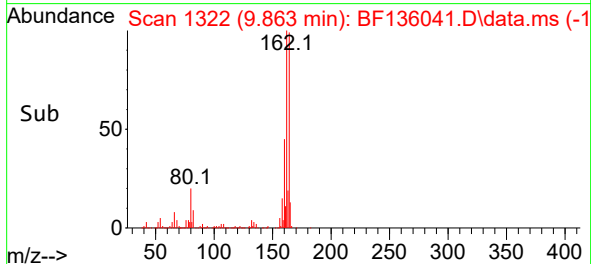
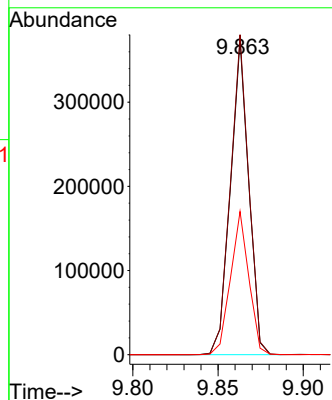
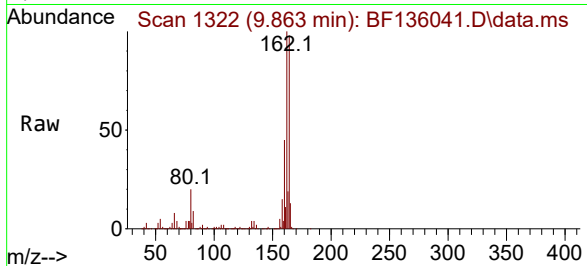




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

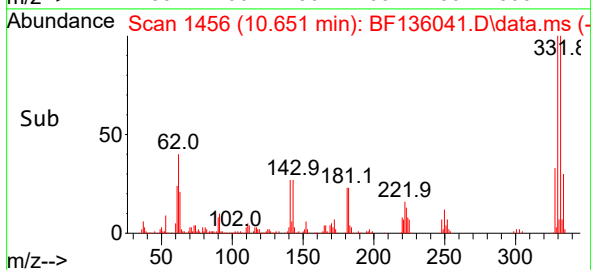
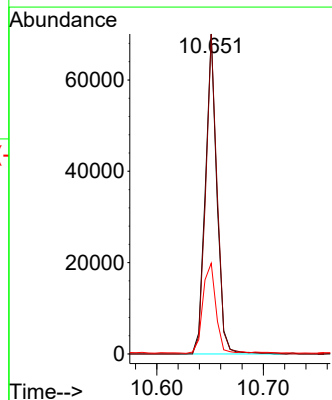
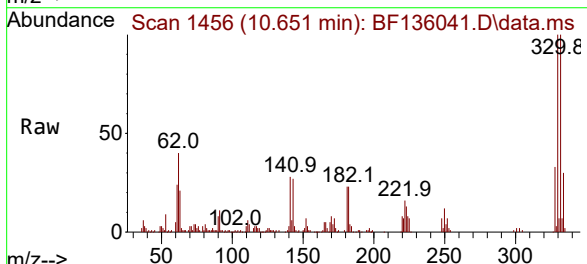
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

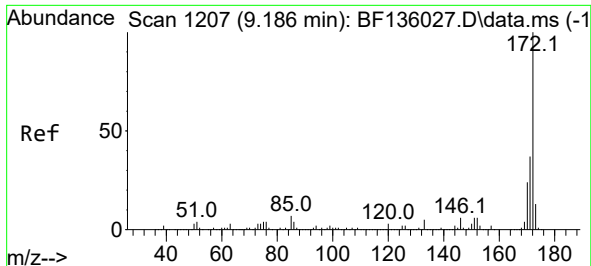
Tgt Ion:164 Resp: 280080
Ion Ratio Lower Upper
164 100
162 101.7 80.1 120.1
160 45.5 34.8 52.2



#42
2,4,6-Tribromophenol
Concen: 17.659 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:330 Resp: 52791
Ion Ratio Lower Upper
330 100
332 98.9 76.9 115.3
141 31.6 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 16.724 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

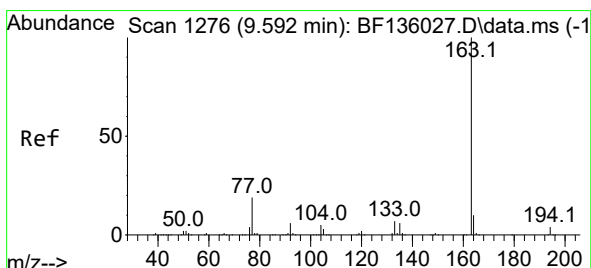
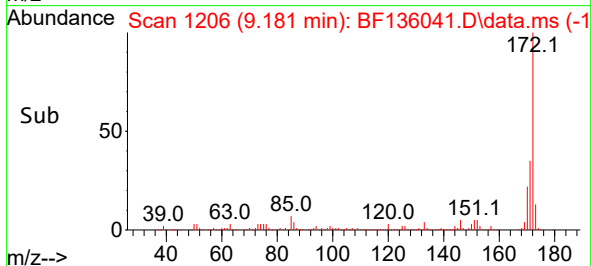
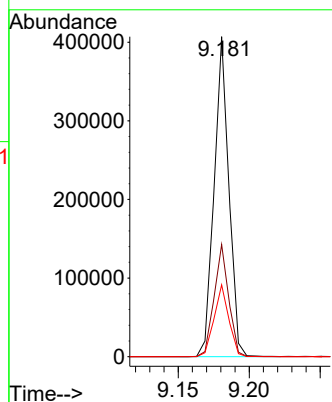
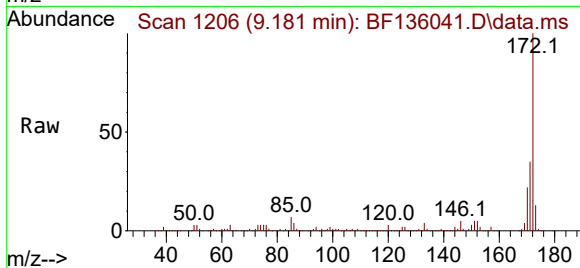
Tgt Ion:172 Resp: 293839

Ion Ratio Lower Upper

172 100

171 35.1 29.4 44.0

170 22.5 19.3 28.9



#50

Dimethylphthalate

Concen: 3.116 ng

RT: 9.863 min Scan# 1322

Delta R.T. 0.271 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

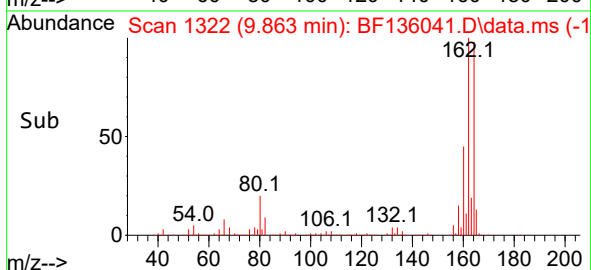
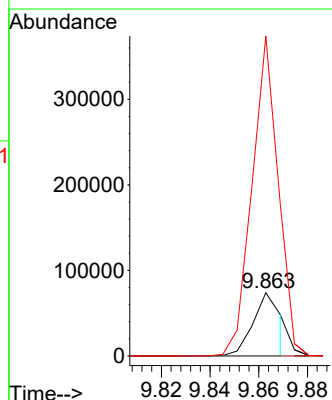
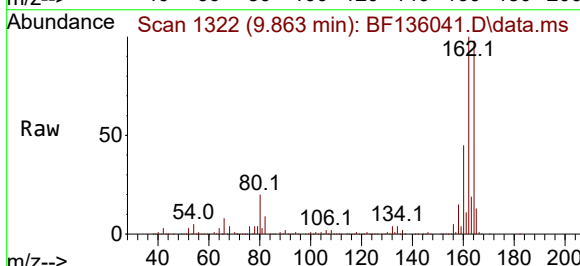
Tgt Ion:163 Resp: 57570

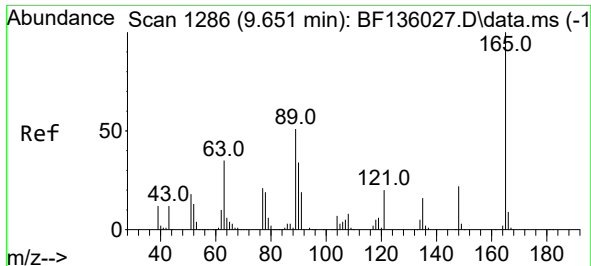
Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

164 506.2 8.1 12.1#

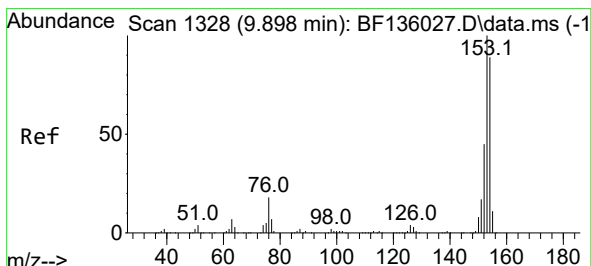
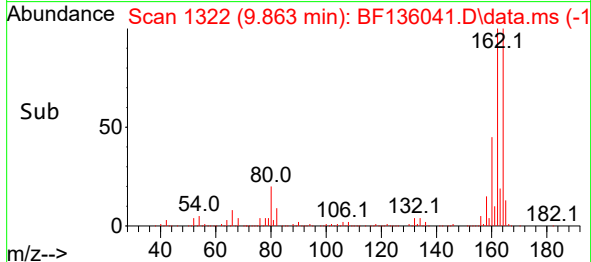
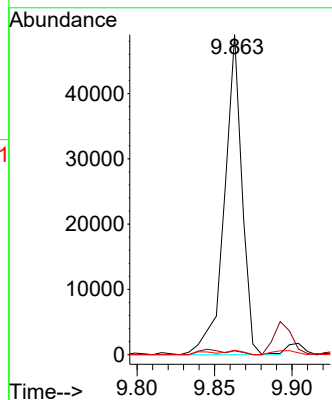
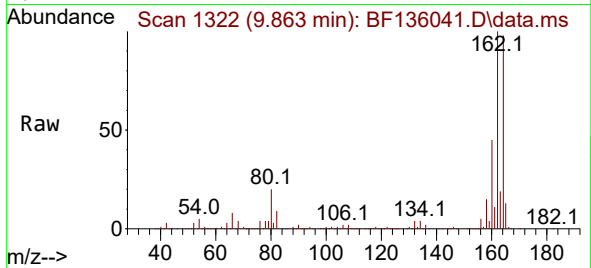




#51
2,6-Dinitrotoluene
Concen: 9.762 ng
RT: 9.863 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

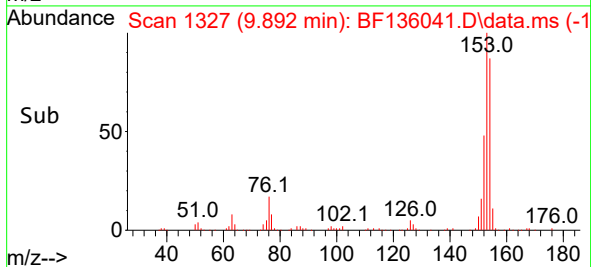
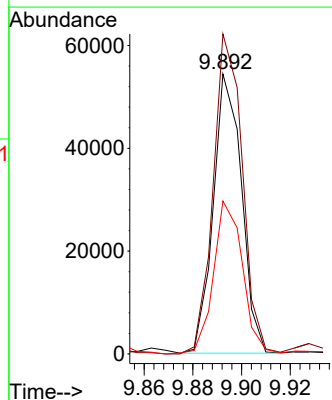
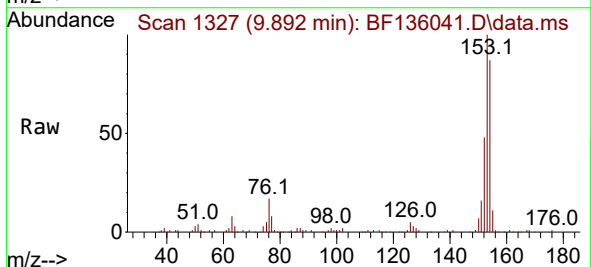
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

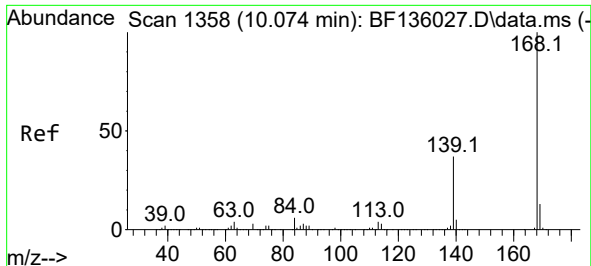
Tgt Ion:165 Resp: 38572
Ion Ratio Lower Upper
165 100
63 1.2 40.8 61.2#
89 1.4 41.1 61.7#



#52
Acenaphthene
Concen: 2.799 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:154 Resp: 43697
Ion Ratio Lower Upper
154 100
153 114.3 89.9 134.9
152 54.7 40.2 60.2

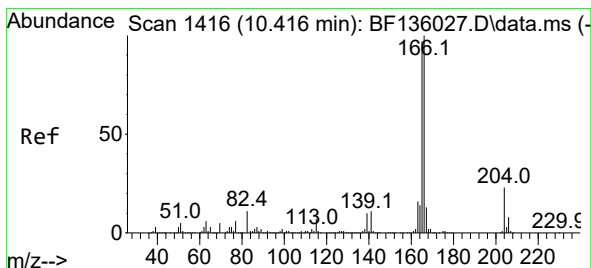
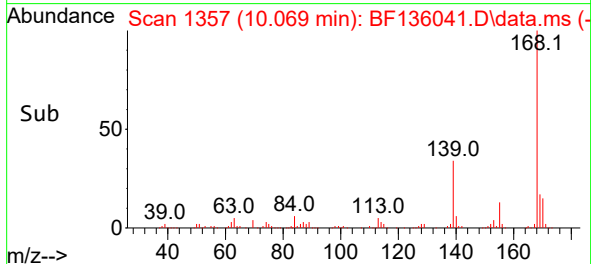
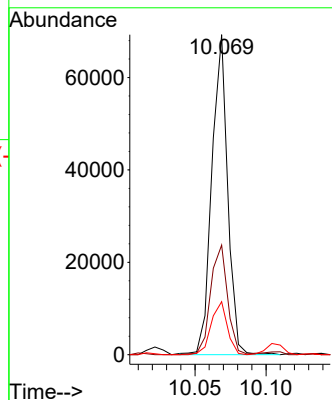
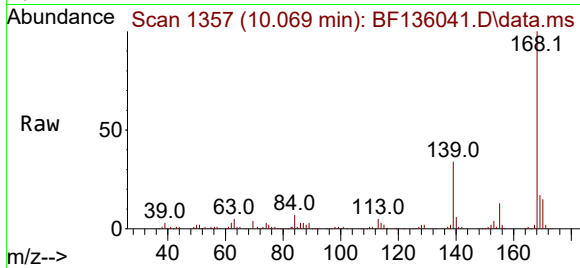




#55
Dibenzofuran
Concen: 2.355 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

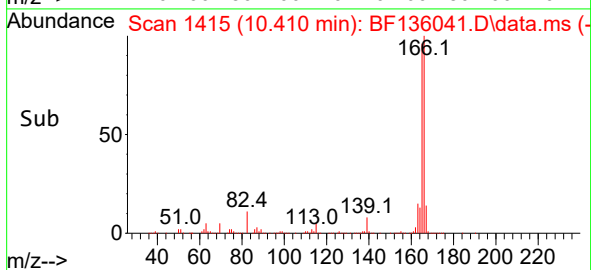
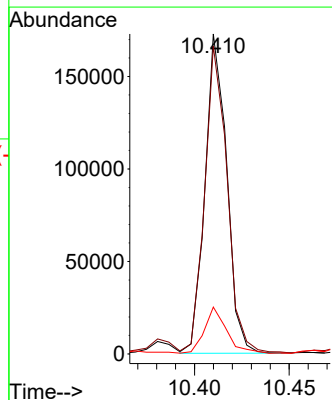
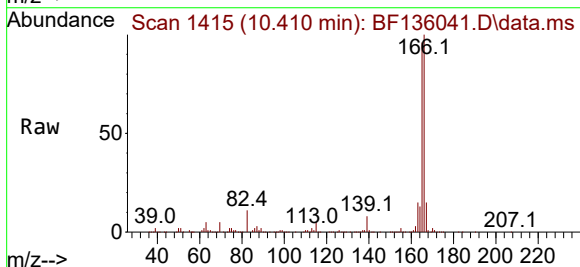
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

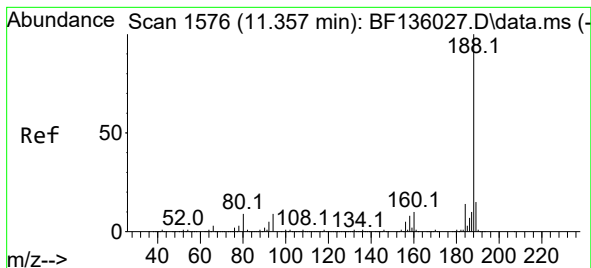
Tgt Ion:168 Resp: 53609
Ion Ratio Lower Upper
168 100
139 34.2 29.4 44.0
169 16.5 10.5 15.7#



#58
Fluorene
Concen: 8.090 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:166 Resp: 137861
Ion Ratio Lower Upper
166 100
165 96.2 77.7 116.5
167 14.7 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

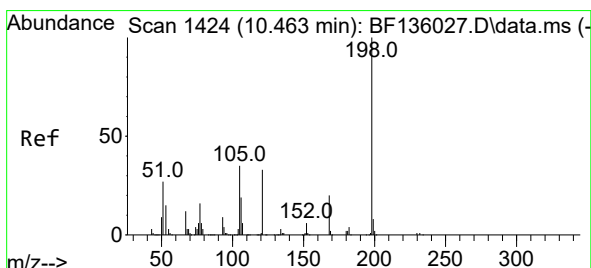
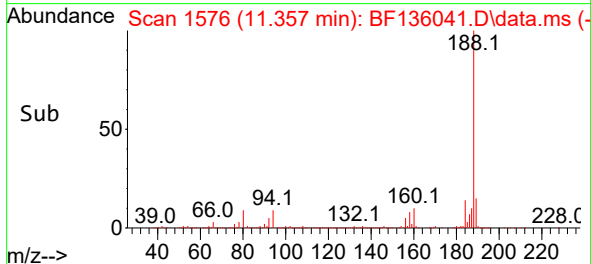
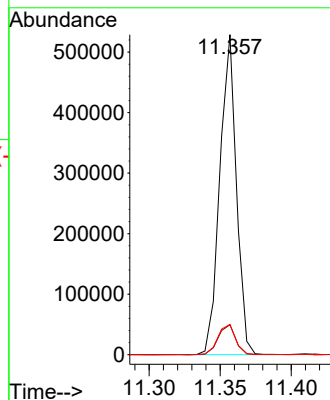
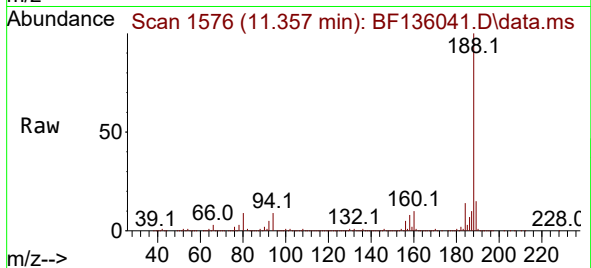
Tgt Ion:188 Resp: 428823

Ion Ratio Lower Upper

188 100

94 9.4 7.2 10.8

80 9.4 7.4 11.0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.845 ng

RT: 10.645 min Scan# 1455

Delta R.T. 0.182 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

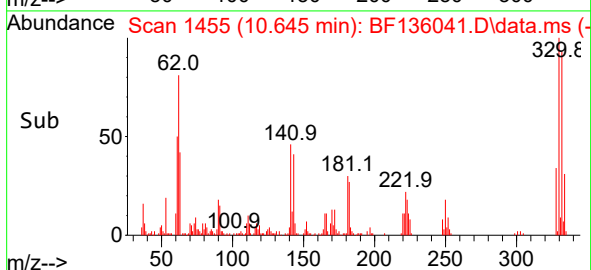
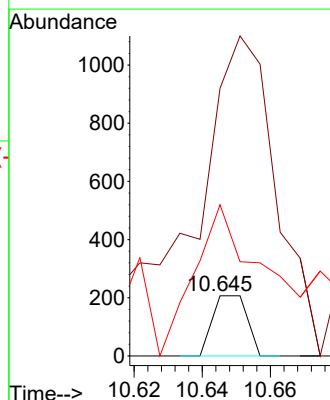
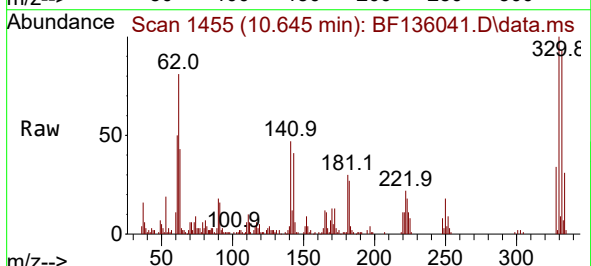
Tgt Ion:198 Resp: 146

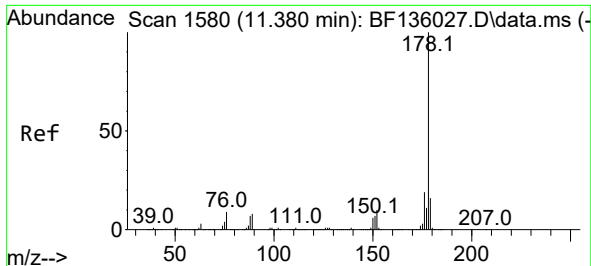
Ion Ratio Lower Upper

198 100

51 136.7 12.9 52.9#

105 77.3 16.0 56.0#

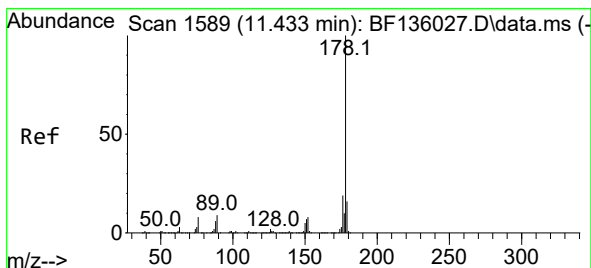
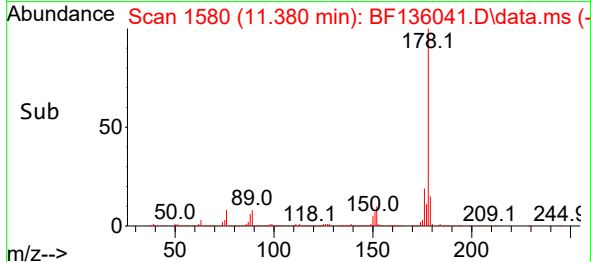
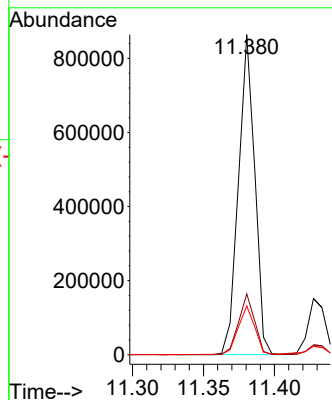
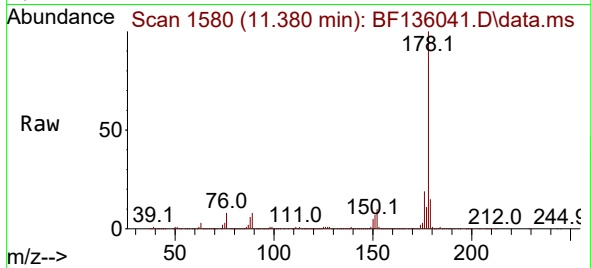




#71
Phenanthrene
Concen: 32.020 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

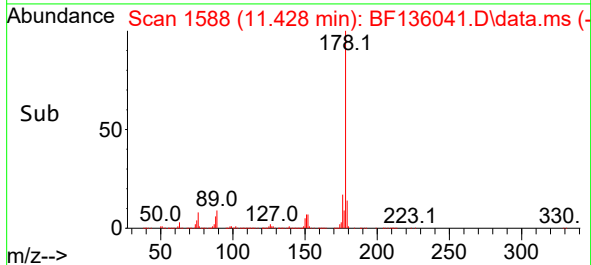
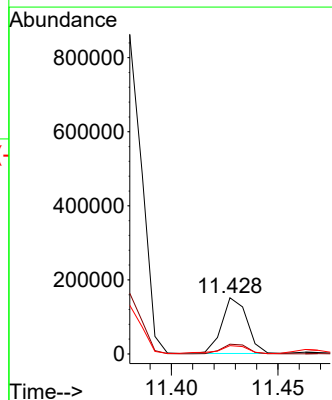
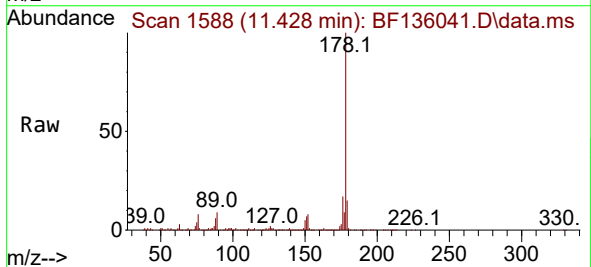
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

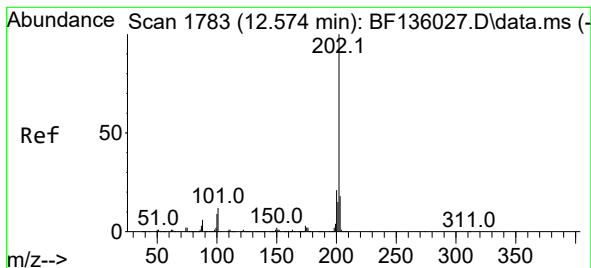
Tgt Ion:178 Resp: 691348
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.3 12.9 19.3



#72
Anthracene
Concen: 5.642 ng
RT: 11.428 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:178 Resp: 124821
Ion Ratio Lower Upper
178 100
176 17.4 15.0 22.4
179 14.8 12.6 18.8





#75

Fluoranthene

Concen: 18.811 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

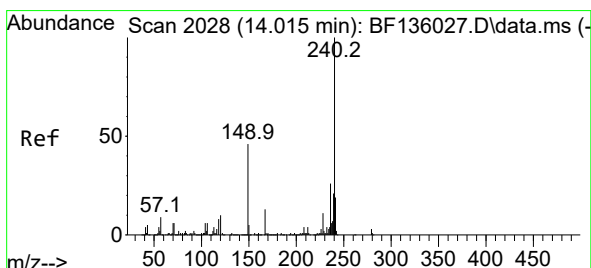
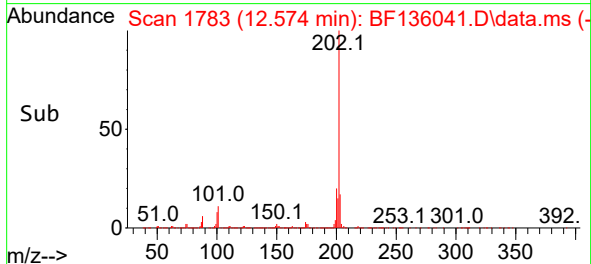
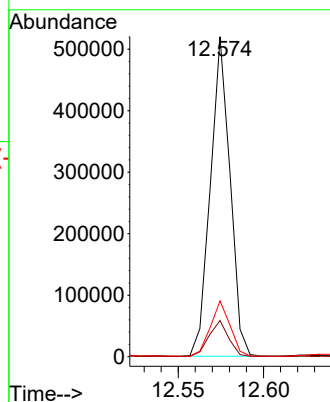
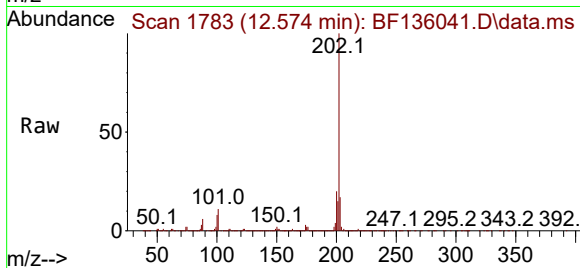
Tgt Ion:202 Resp: 417252

Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.8

203 17.5 0.0 37.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

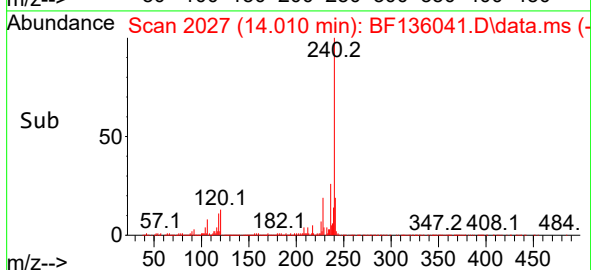
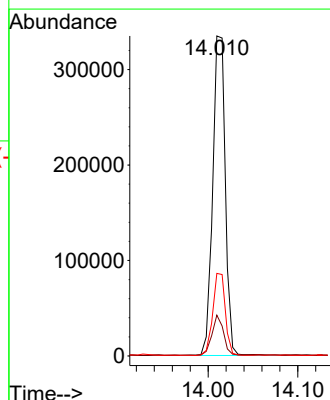
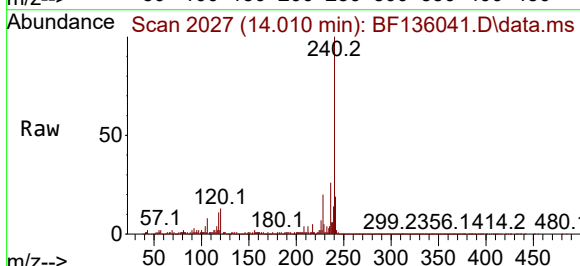
Tgt Ion:240 Resp: 327612

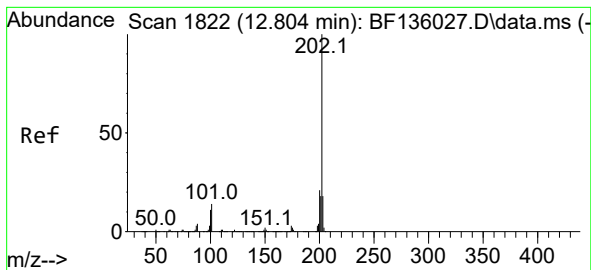
Ion Ratio Lower Upper

240 100

120 12.7 7.6 11.4#

236 25.8 20.6 31.0





#78

Pyrene

Concen: 14.952 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

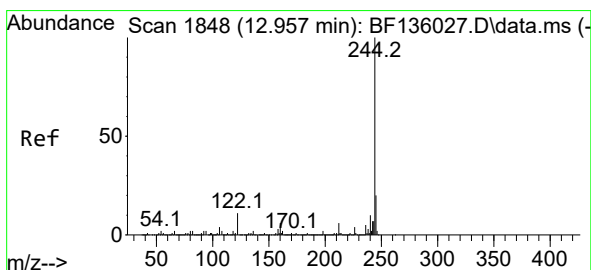
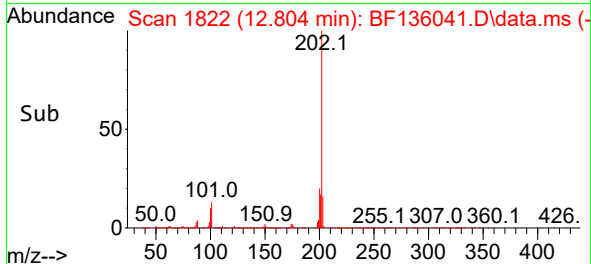
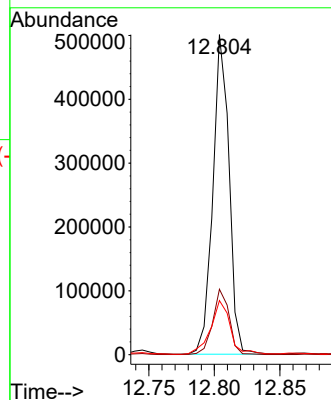
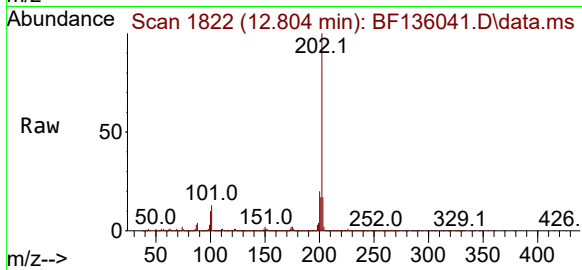
Tgt Ion:202 Resp: 431872

Ion Ratio Lower Upper

202 100

200 20.5 17.0 25.4

203 16.9 14.4 21.6



#79

Terphenyl-d14

Concen: 13.331 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

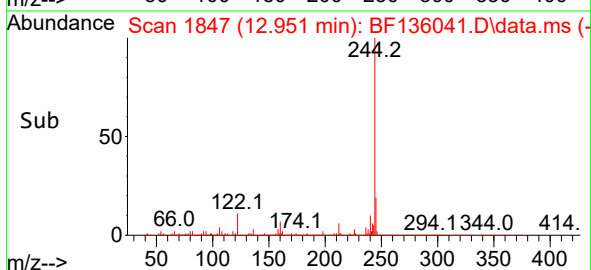
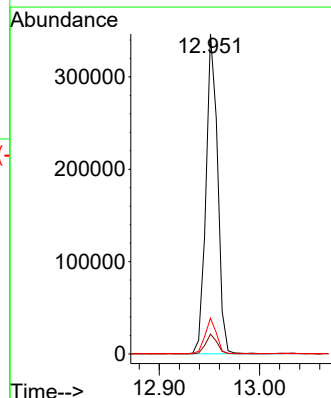
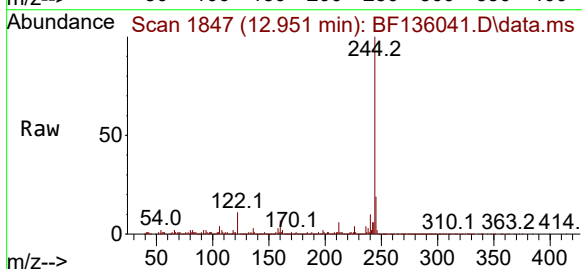
Tgt Ion:244 Resp: 281046

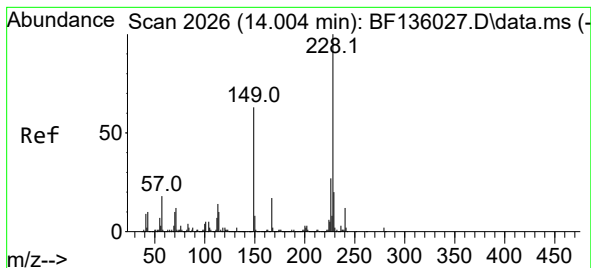
Ion Ratio Lower Upper

244 100

212 6.2 5.1 7.7

122 11.2 8.6 12.8





#81

Benzo(a)anthracene

Concen: 6.376 ng

RT: 14.039 min Scan# 2026

Delta R.T. 0.035 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

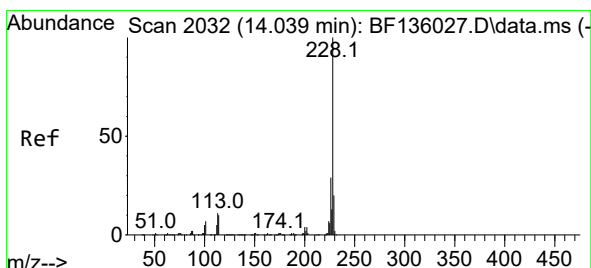
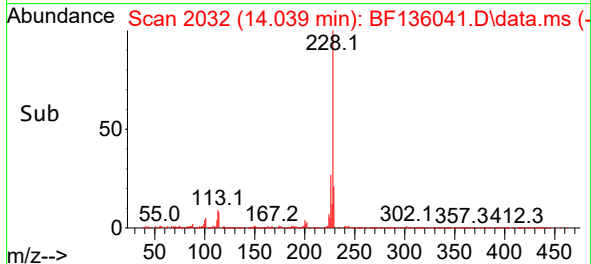
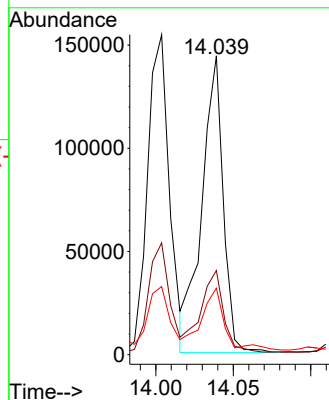
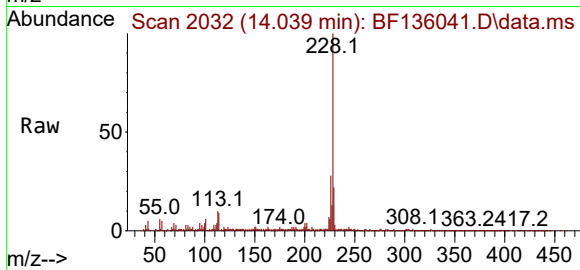
Tgt Ion:228 Resp: 138291

Ion Ratio Lower Upper

228 100

226 28.1 21.5 32.3

229 22.3 15.8 23.6



#83

Chrysene

Concen: 6.474 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

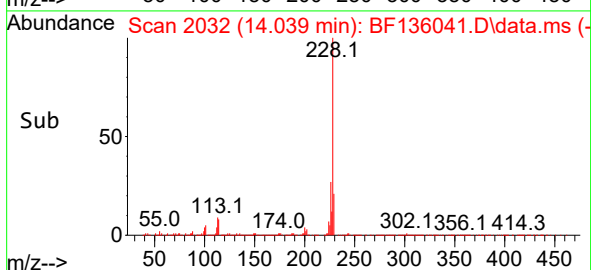
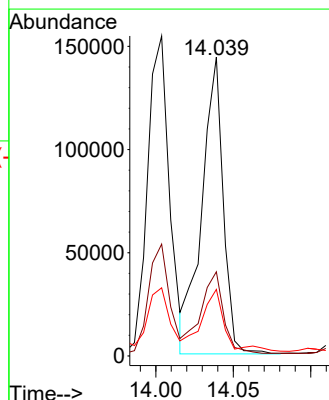
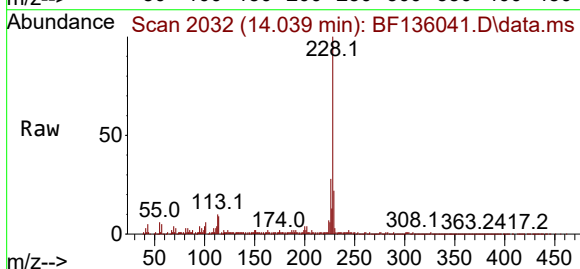
Tgt Ion:228 Resp: 138291

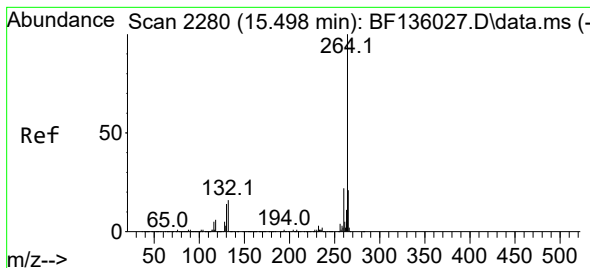
Ion Ratio Lower Upper

228 100

226 28.1 23.5 35.3

229 22.3 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

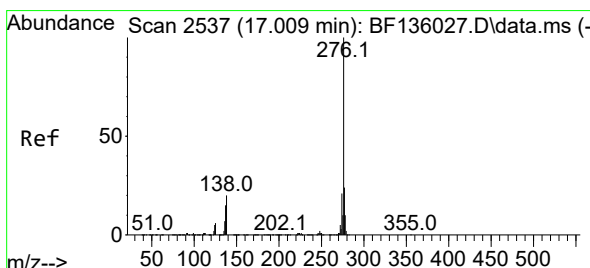
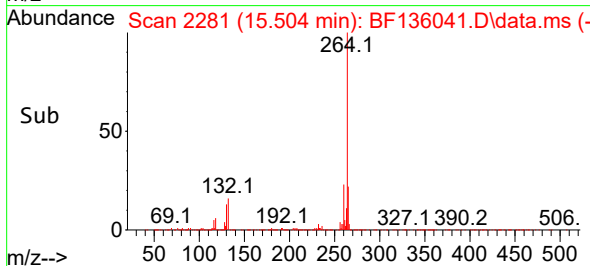
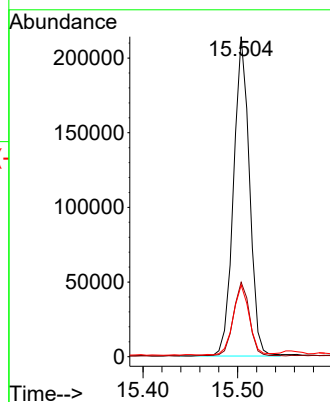
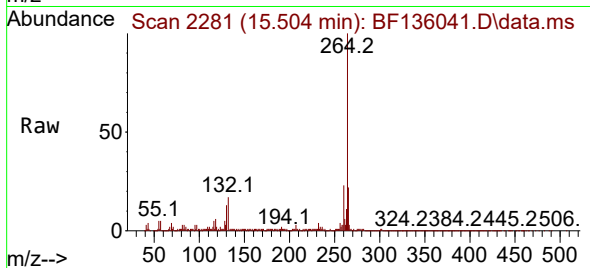
Tgt Ion:264 Resp: 249873

Ion Ratio Lower Upper

264 100

260 23.3 17.9 26.9

265 22.3 16.8 25.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.539 ng

RT: 17.009 min Scan# 2537

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

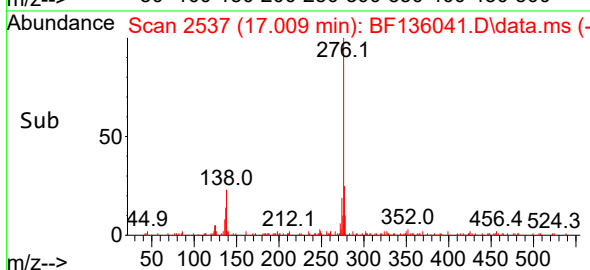
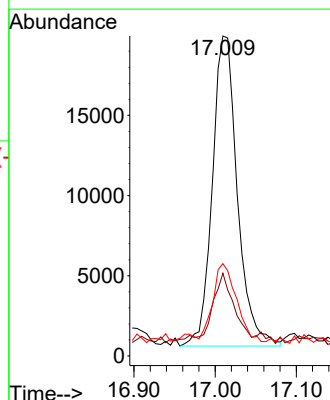
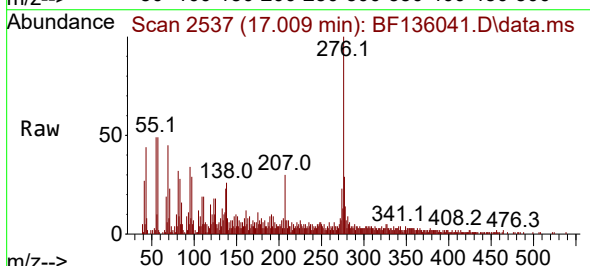
Tgt Ion:276 Resp: 41457

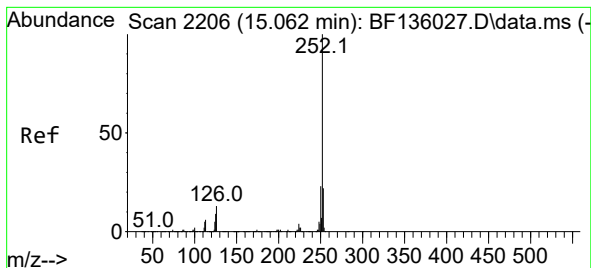
Ion Ratio Lower Upper

276 100

138 18.6 20.4 30.6#

277 23.7 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 9.225 ng

RT: 15.063 min Scan# 2206

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

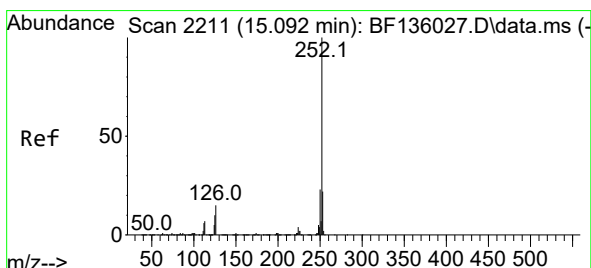
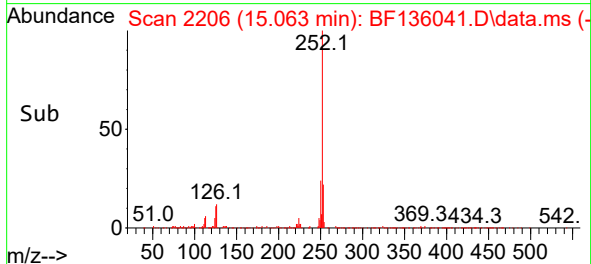
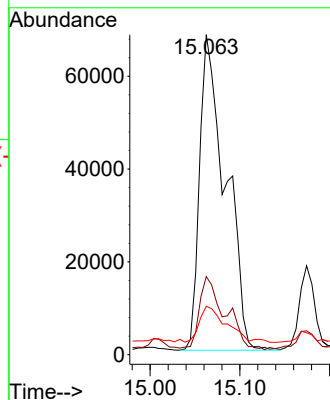
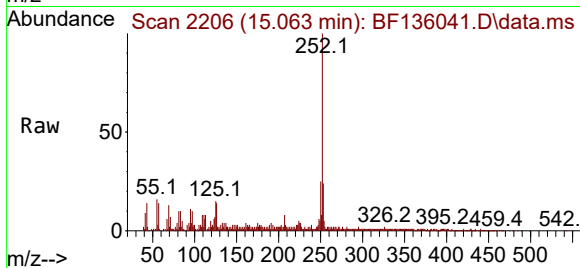
Tgt Ion:252 Resp: 136394

Ion Ratio Lower Upper

252 100

253 24.4 17.7 26.5

125 15.1 7.5 11.3#



#89

Benzo(k)fluoranthene

Concen: 9.323 ng

RT: 15.063 min Scan# 2206

Delta R.T. -0.029 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

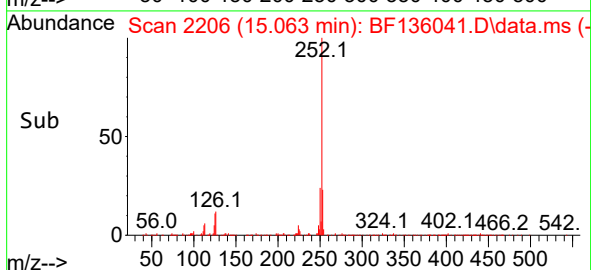
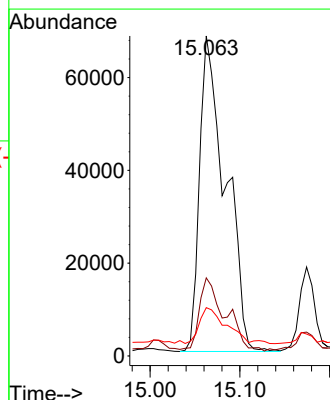
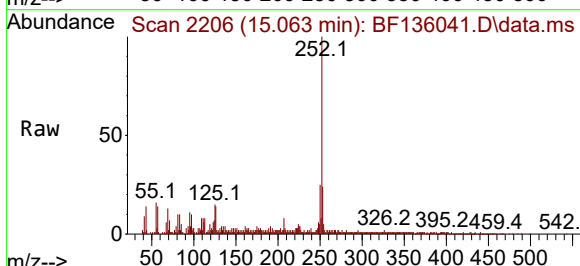
Tgt Ion:252 Resp: 136394

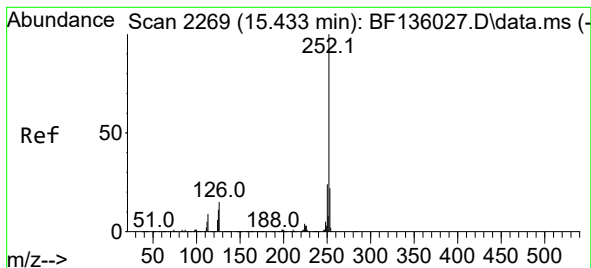
Ion Ratio Lower Upper

252 100

253 24.4 17.4 26.0

125 15.1 8.0 12.0#





#90

Benzo(a)pyrene

Concen: 6.246 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

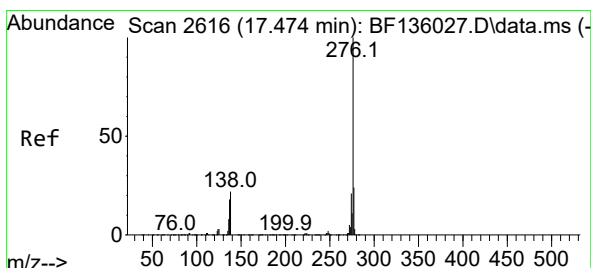
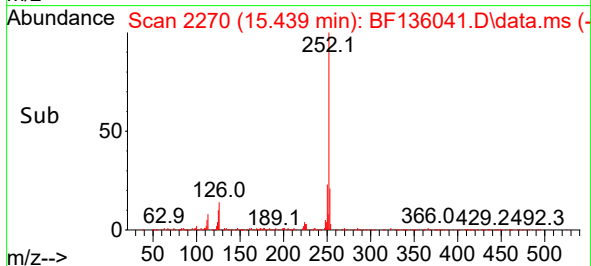
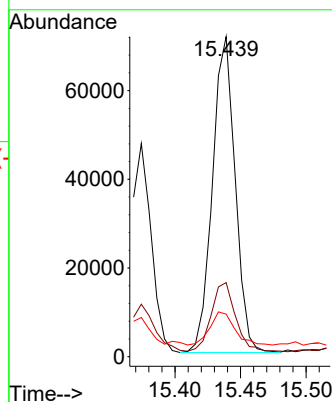
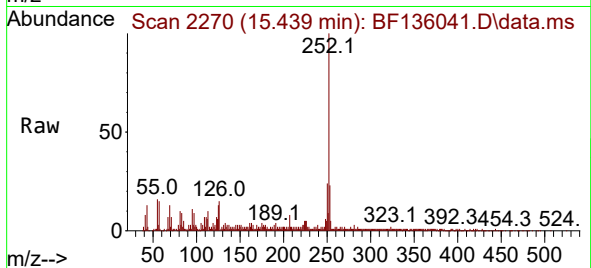
Tgt Ion:252 Resp: 85810

Ion Ratio Lower Upper

252 100

253 23.1 17.3 25.9

125 13.3 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 5.363 ng

RT: 17.468 min Scan# 2615

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:276 Resp: 39998

Ion Ratio Lower Upper

276 100

277 25.1 19.0 28.4

138 24.2 17.4 26.2

