

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136048.D
 Acq On : 31 Oct 2023 13:31
 Operator : CG\JU
 Sample : 04707-03DL 20X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL

Quant Time: Oct 31 14:08:34 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)

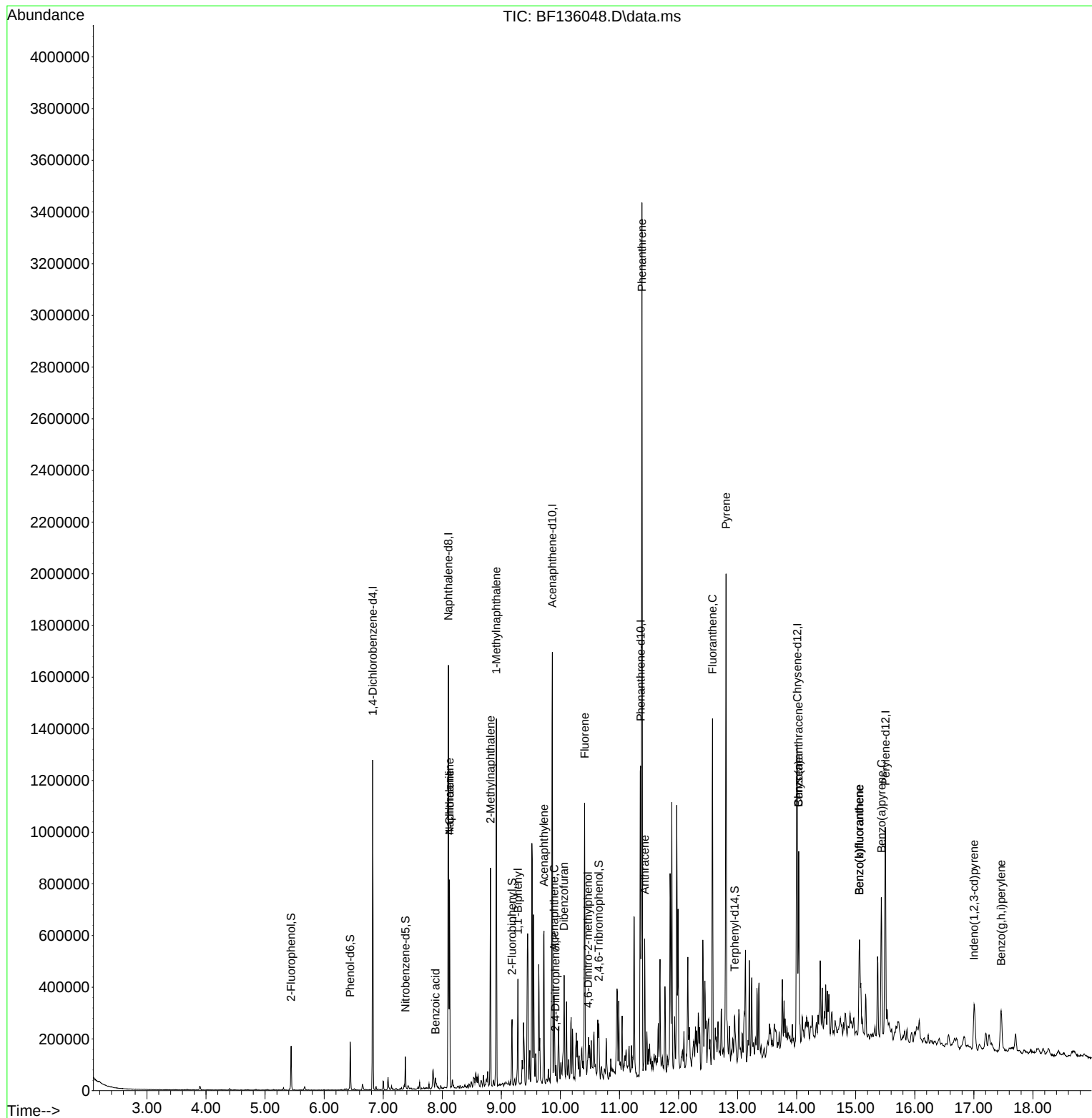
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	172243	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	664640	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	318534	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	496662	20.000	ng	0.00
76) Chrysene-d12	14.010	240	311161	20.000	ng	0.00
86) Perylene-d12	15.504	264	401983	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	41745	3.808	ng	-0.01
7) Phenol-d6	6.440	99	57548	4.214	ng	-0.02
23) Nitrobenzene-d5	7.375	82	30956	2.808	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	9910	2.915	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	67947	3.400	ng	0.00
79) Terphenyl-d14	12.951	244	52433	2.619	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	292644	9.131	ng	100
32) Benzoic acid	7.887	122	133	5.130	ng	# 1
33) 4-Chloroaniline	8.122	127	37922	2.702	ng	# 33
37) 2-Methylnaphthalene	8.816	142	190922	8.884	ng	99
38) 1-Methylnaphthalene	8.916	142	325853	16.293	ng	100
46) 1,1'-Biphenyl	9.281	154	109405	4.506	ng	97
49) Acenaphthylene	9.722	152	140184	5.020	ng	# 96
52) Acenaphthene	9.892	154	54202	3.053	ng	95
54) 2,4-Dinitrophenol	9.916	184	123	8.023	ng	# 1
55) Dibenzofuran	10.063	168	53113	2.052	ng	# 83
58) Fluorene	10.410	166	262406	13.539	ng	100
65) 4,6-Dinitro-2-methylph...	10.469	198	170	5.845	ng	# 1
71) Phenanthrene	11.380	178	1202218	48.075	ng	99
72) Anthracene	11.428	178	181547	7.085	ng	98
75) Fluoranthene	12.575	202	502954	19.578	ng	98
78) Pyrene	12.804	202	724741	26.418	ng	100
81) Benzo(a)anthracene	14.033	228	265828	12.904	ng	93
83) Chrysene	14.033	228	265828	13.103	ng	96
87) Indeno(1,2,3-cd)pyrene	17.004	276	123722	4.709	ng	96
88) Benzo(b)fluoranthene	15.063	252	313641	13.186	ng	# 96
89) Benzo(k)fluoranthene	15.063	252	313641	13.327	ng	# 96
90) Benzo(a)pyrene	15.433	252	267479	12.103	ng	99
92) Benzo(g,h,i)perylene	17.462	276	132381	7.972	ng	98

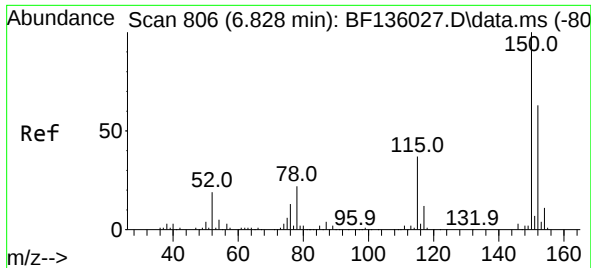
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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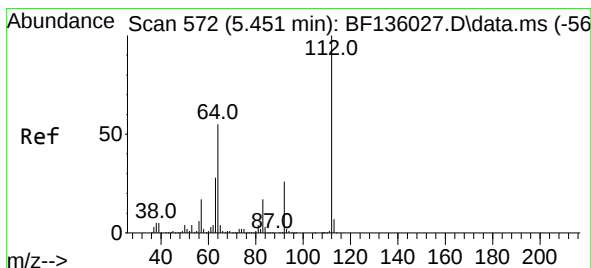
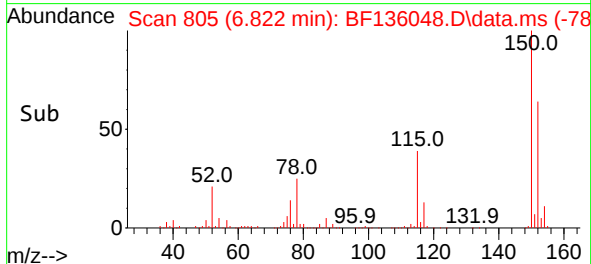
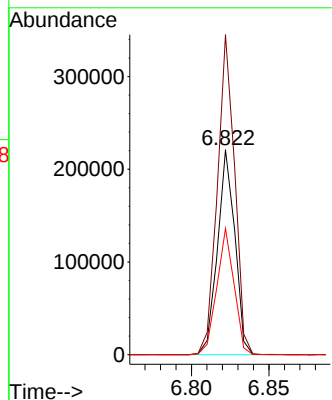
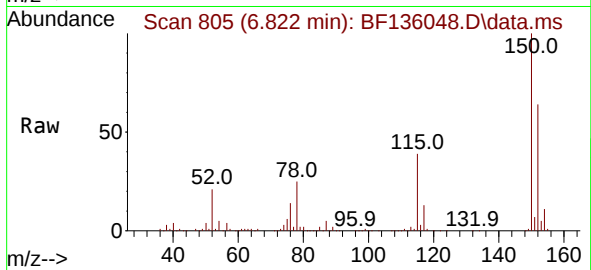




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

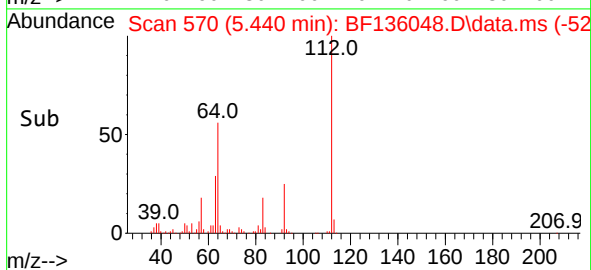
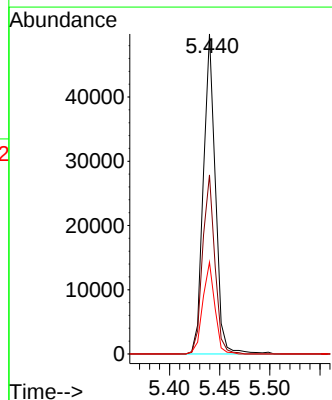
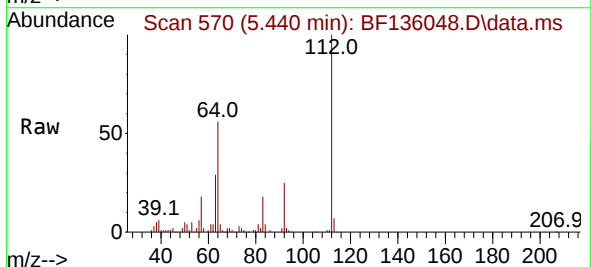
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

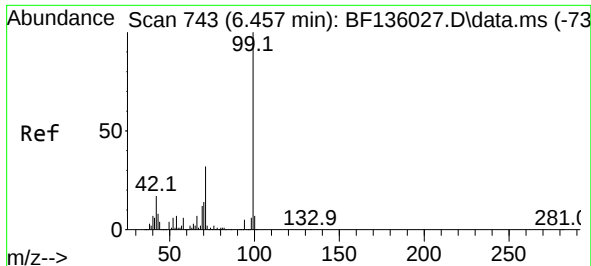
Tgt Ion:152 Resp: 172243
Ion Ratio Lower Upper
152 100
150 156.1 126.4 189.6
115 61.6 47.0 70.4



#5
2-Fluorophenol
Concen: 3.808 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:112 Resp: 41745
Ion Ratio Lower Upper
112 100
64 55.9 43.9 65.9
63 28.7 22.4 33.6

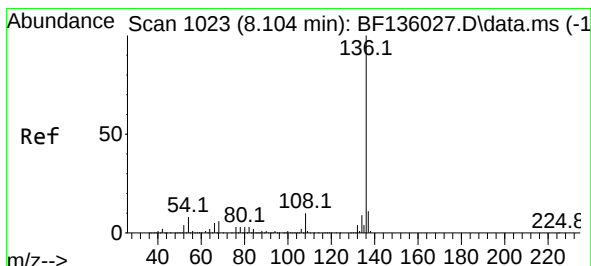
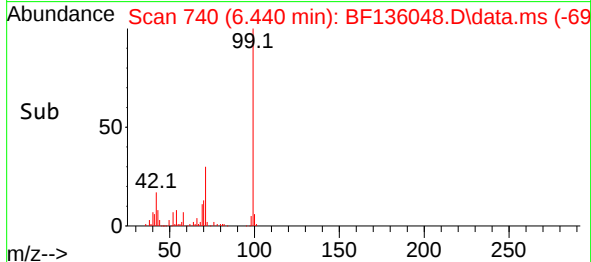
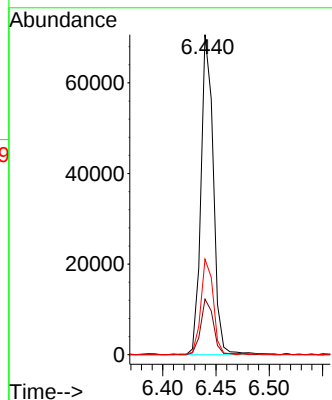
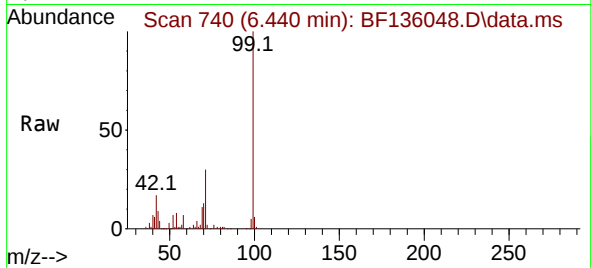




#7
Phenol-d6
Concen: 4.214 ng
RT: 6.440 min Scan# 743
Delta R.T. -0.017 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

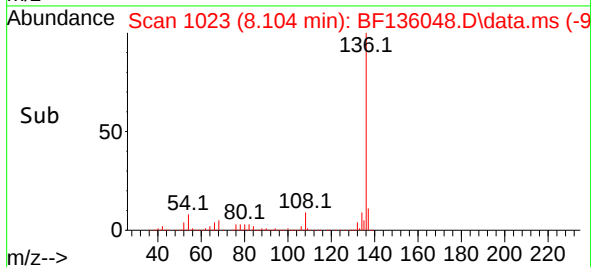
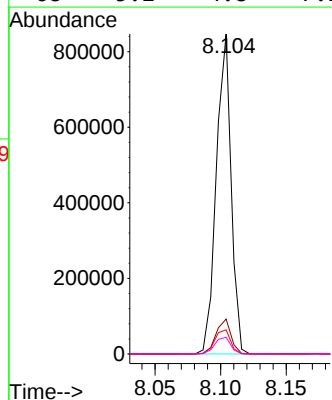
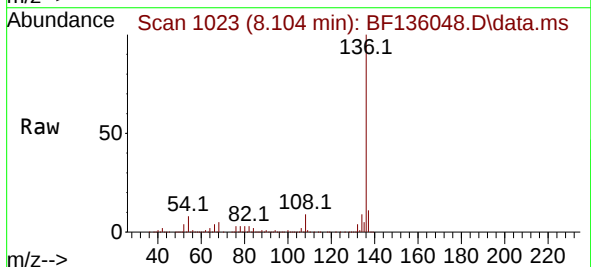
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

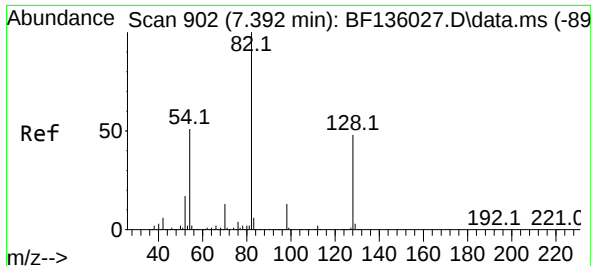
Tgt Ion: 99 Resp: 57548
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 29.8 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion: 136 Resp: 664640
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.5 6.6 9.8
68 5.2 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.808 ng

RT: 7.375 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

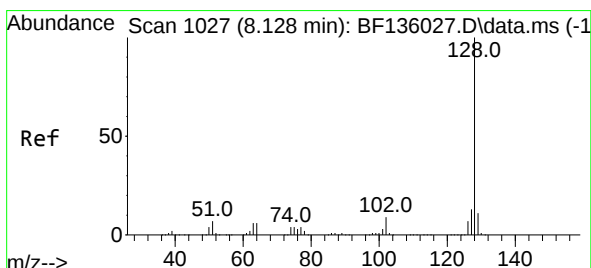
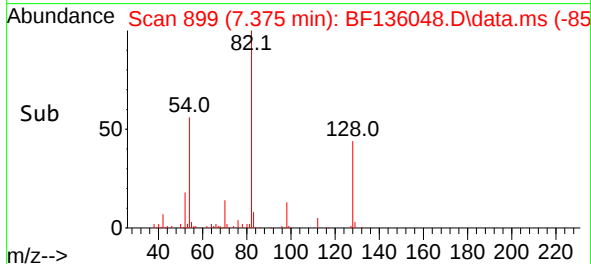
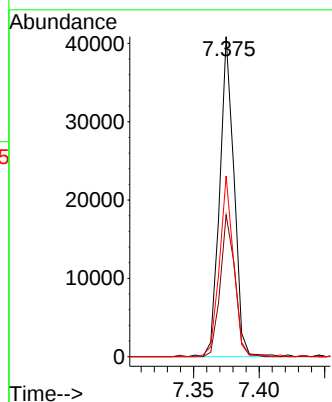
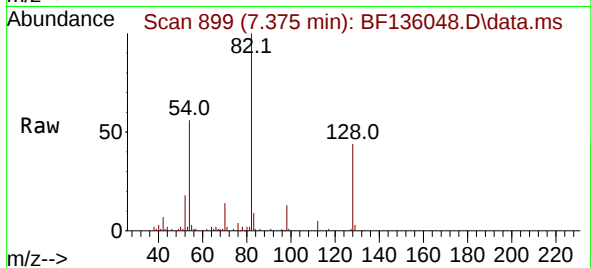
Tgt Ion: 82 Resp: 30956

Ion Ratio Lower Upper

82 100

128 44.3 38.6 57.8

54 56.4 40.8 61.2



#31

Naphthalene

Concen: 9.131 ng

RT: 8.122 min Scan# 1026

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

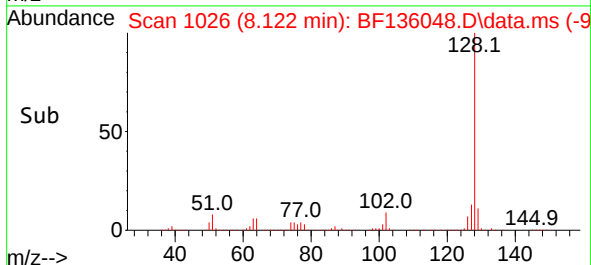
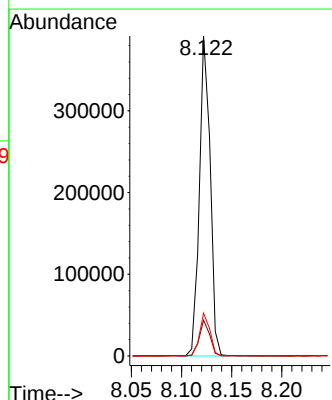
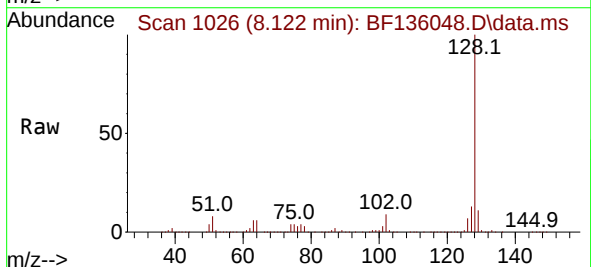
Tgt Ion:128 Resp: 292644

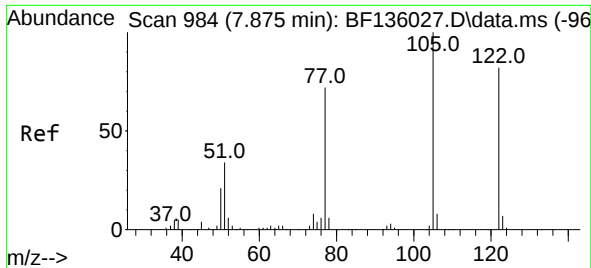
Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 13.3 10.5 15.7

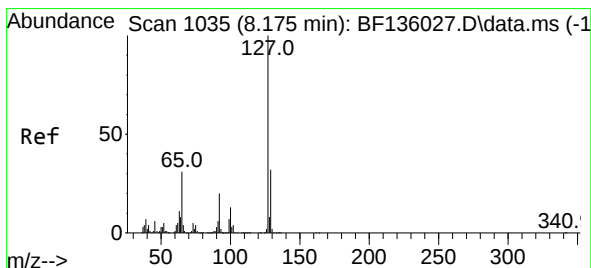
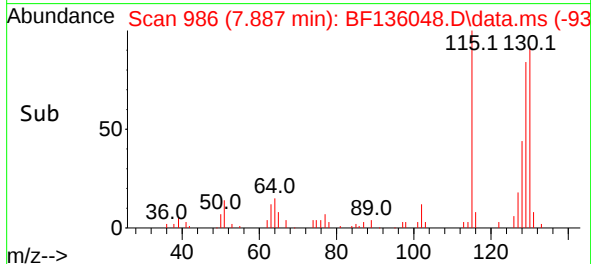
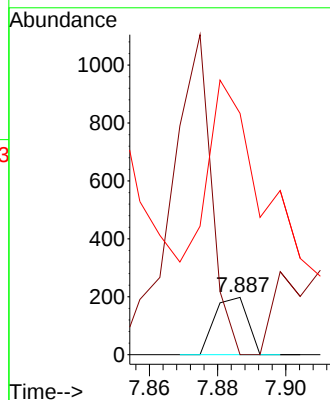
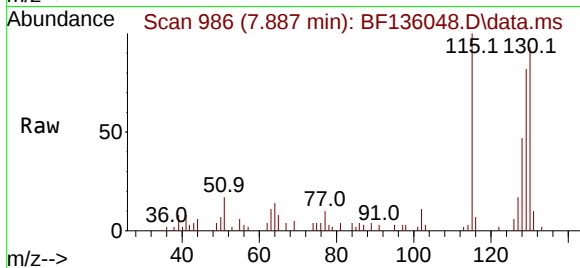




#32
Benzoic acid
Concen: 5.130 ng
RT: 7.887 min Scan# 91
Delta R.T. 0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

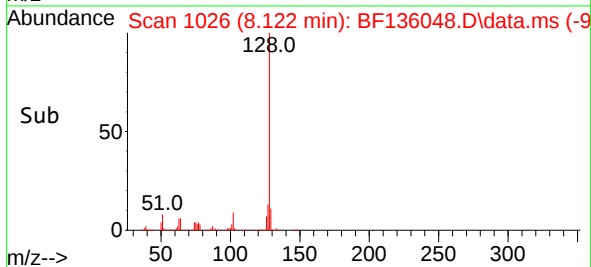
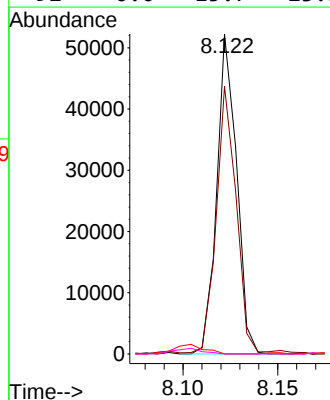
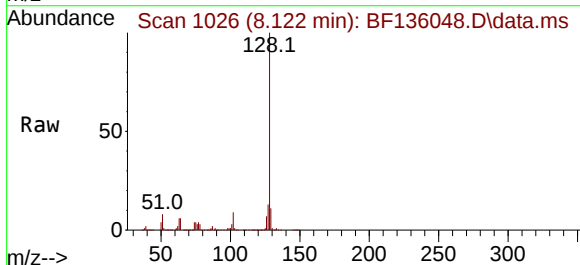
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

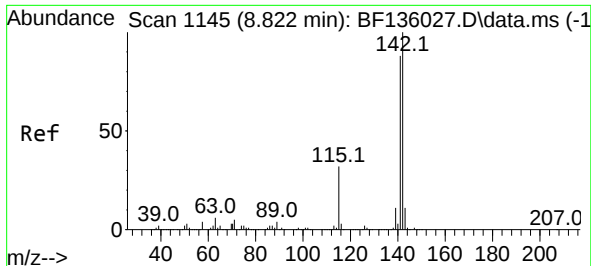
Tgt Ion:122 Resp: 133
Ion Ratio Lower Upper
122 100
105 0.0 99.5 139.5#
77 420.7 66.8 106.8#



#33
4-Chloroaniline
Concen: 2.702 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.053 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:127 Resp: 37922
Ion Ratio Lower Upper
127 100
129 83.7 25.9 38.9#
65 0.0 24.6 37.0#
92 0.0 15.7 23.5#





#37

2-Methylnaphthalene

Concen: 8.884 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

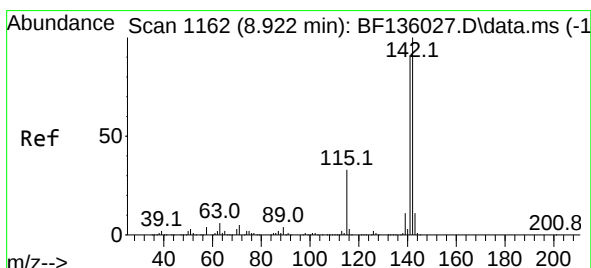
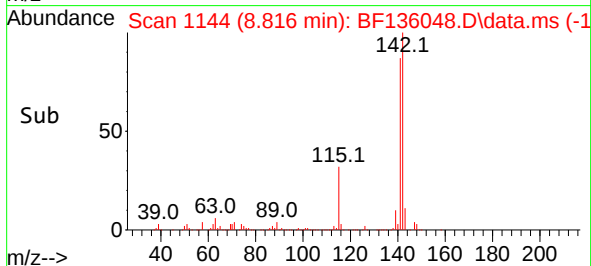
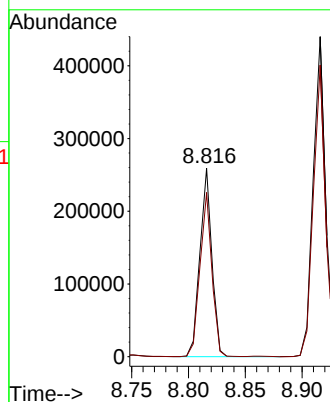
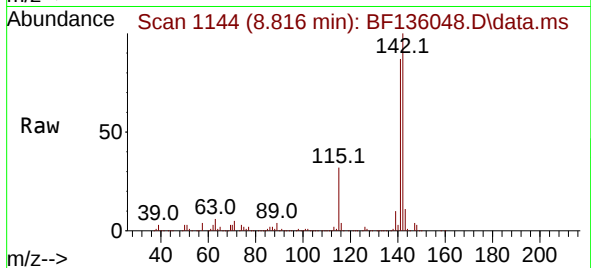
R-2(5-10)DL

Tgt Ion:142 Resp: 190922

Ion Ratio Lower Upper

142 100

141 87.1 70.4 105.6



#38

1-Methylnaphthalene

Concen: 16.293 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136048.D

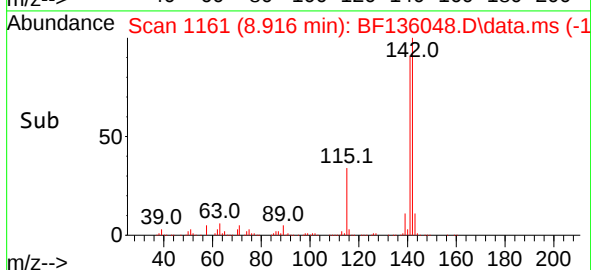
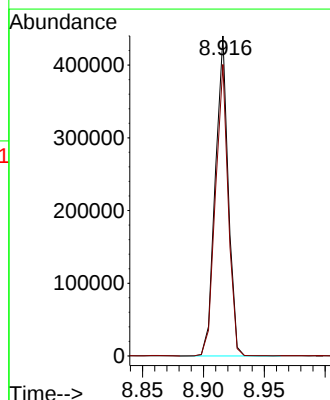
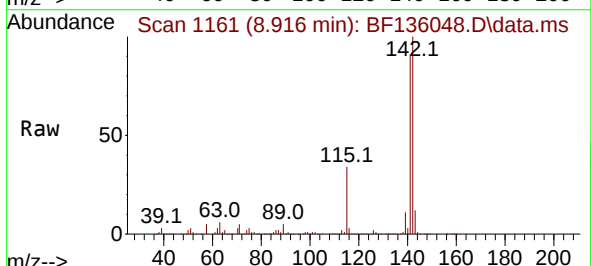
Acq: 31 Oct 2023 13:31

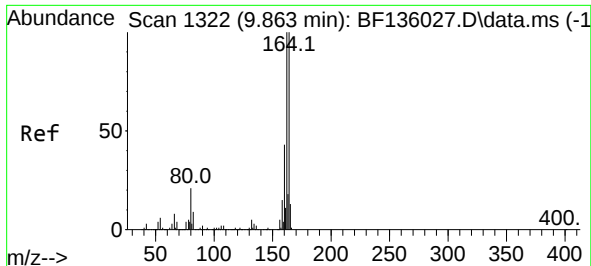
Tgt Ion:142 Resp: 325853

Ion Ratio Lower Upper

142 100

141 91.1 72.6 109.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.863 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

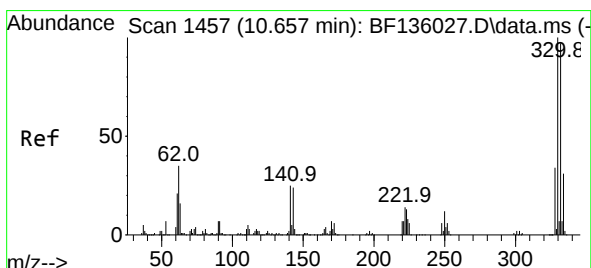
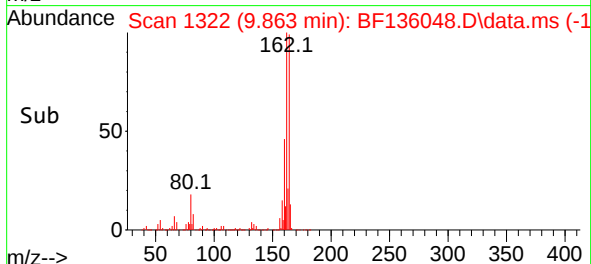
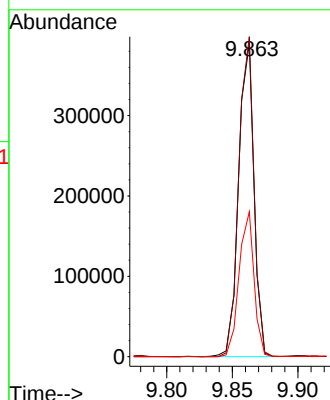
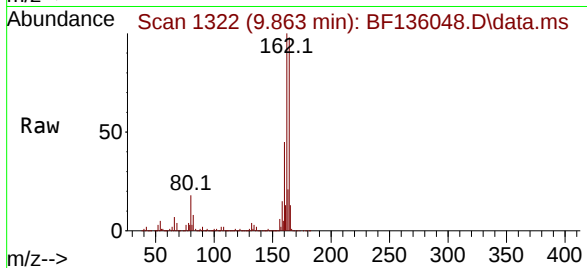
Tgt Ion:164 Resp: 318534

Ion Ratio Lower Upper

164 100

162 102.2 80.1 120.1

160 46.3 34.8 52.2



#42

2,4,6-Tribromophenol

Concen: 2.915 ng

RT: 10.651 min Scan# 1456

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

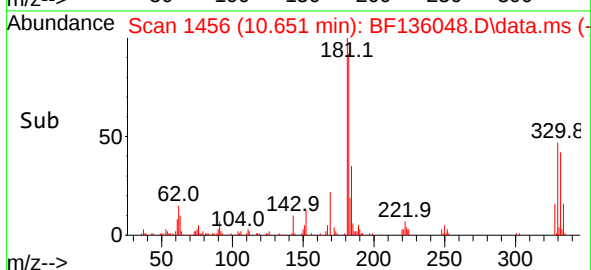
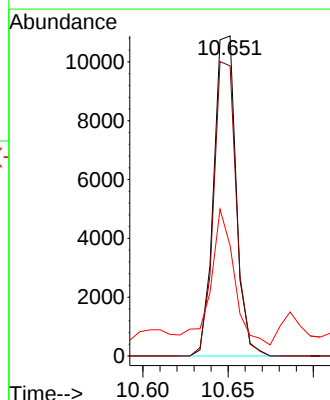
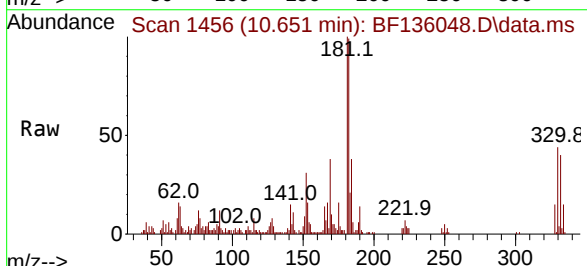
Tgt Ion:330 Resp: 9910

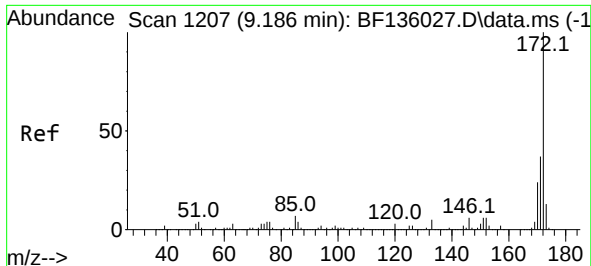
Ion Ratio Lower Upper

330 100

332 93.2 76.9 115.3

141 44.4 23.2 34.8#





#45

2-Fluorobiphenyl

Concen: 3.400 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

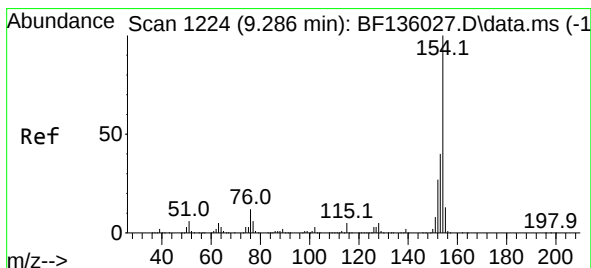
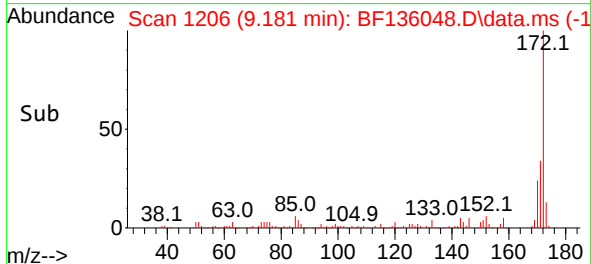
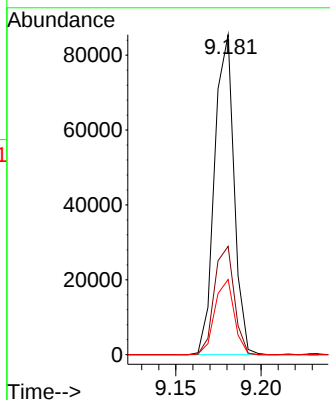
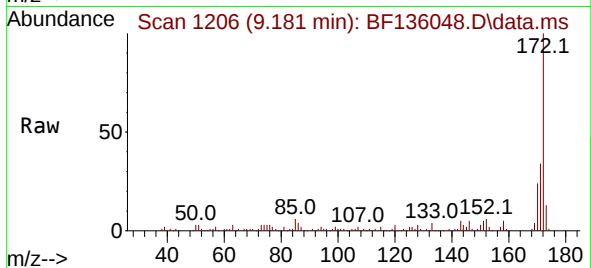
Tgt Ion:172 Resp: 67947

Ion Ratio Lower Upper

172 100

171 33.9 29.4 44.0

170 23.5 19.3 28.9



#46

1,1'-Biphenyl

Concen: 4.506 ng

RT: 9.281 min Scan# 1223

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

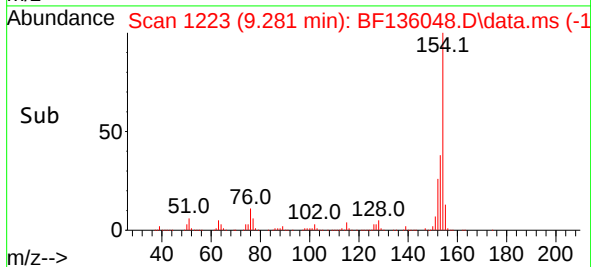
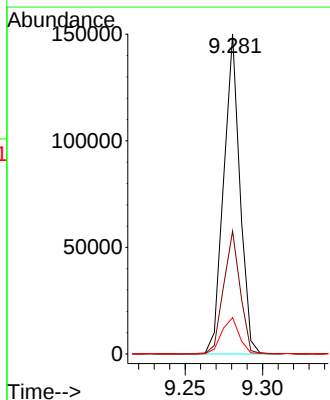
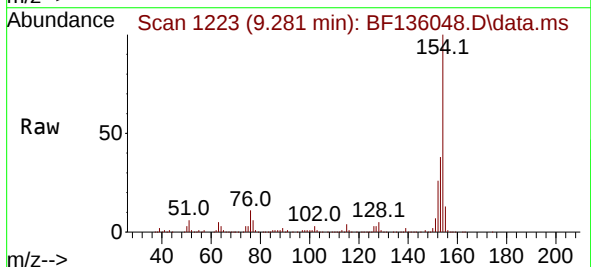
Tgt Ion:154 Resp: 109405

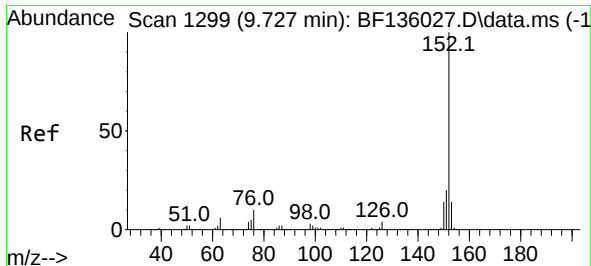
Ion Ratio Lower Upper

154 100

153 38.4 20.1 60.1

76 11.4 0.0 32.5





#49

Acenaphthylene

Concen: 5.020 ng

RT: 9.722 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

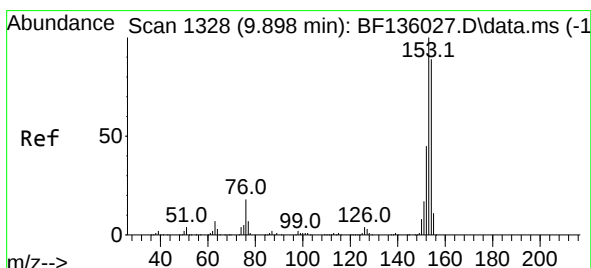
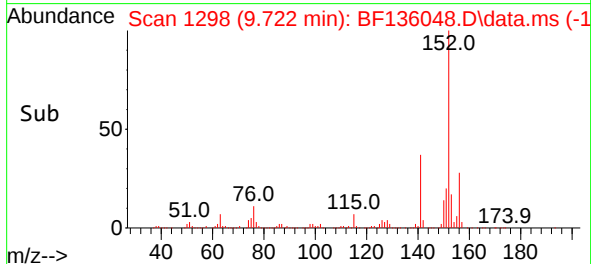
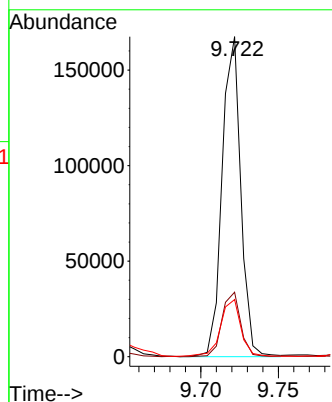
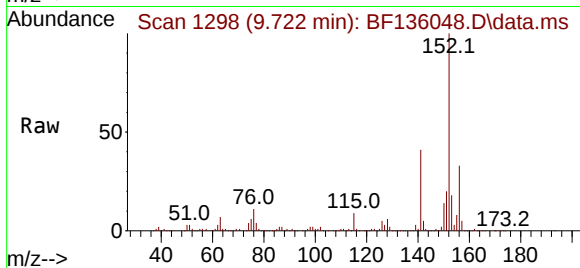
Tgt Ion:152 Resp: 140184

Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 17.9 11.4 17.2#



#52

Acenaphthene

Concen: 3.053 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

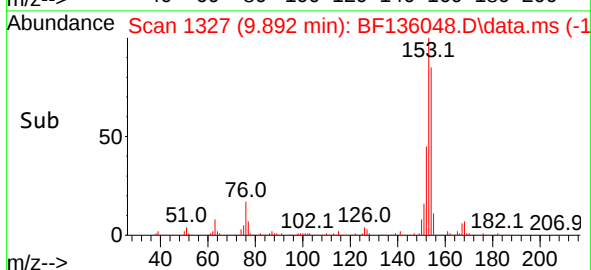
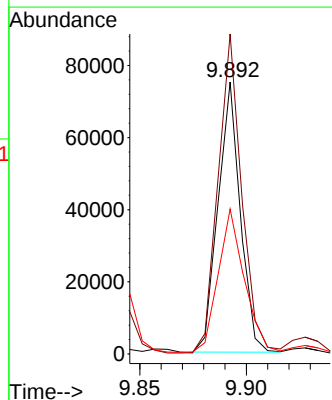
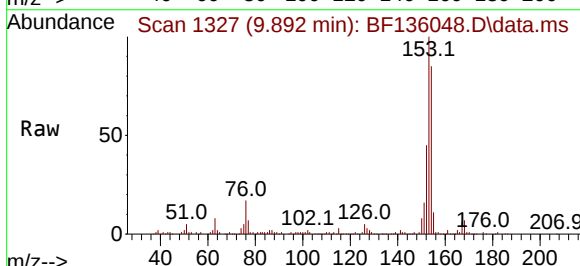
Tgt Ion:154 Resp: 54202

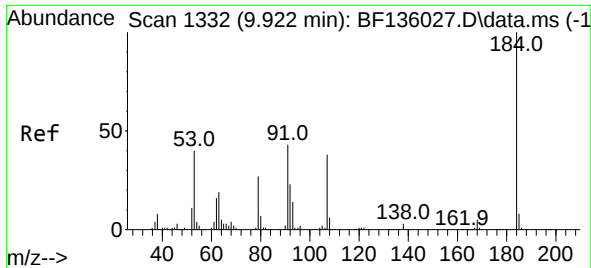
Ion Ratio Lower Upper

154 100

153 117.6 89.9 134.9

152 53.3 40.2 60.2

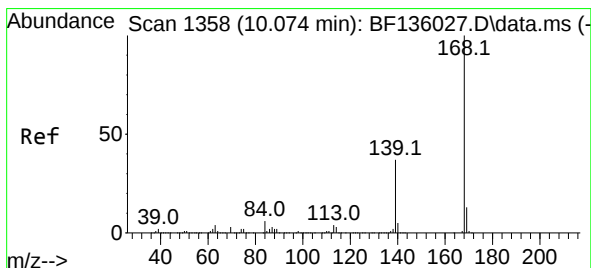
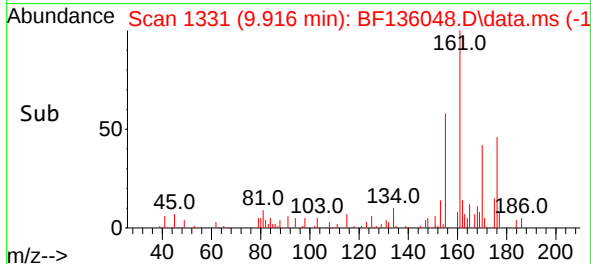
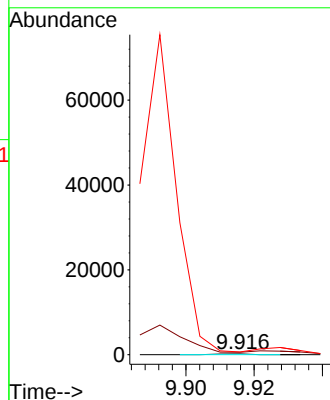
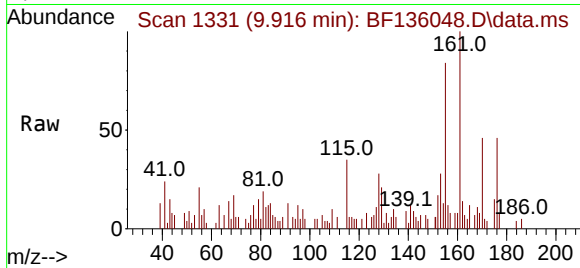




#54
2,4-Dinitrophenol
Concen: 8.023 ng
RT: 9.916 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

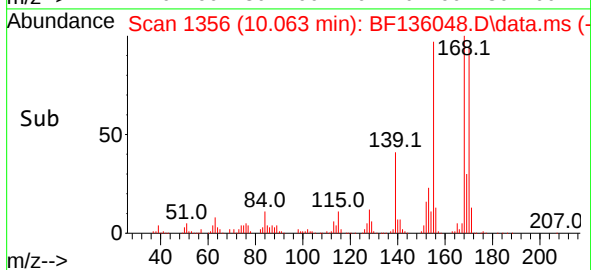
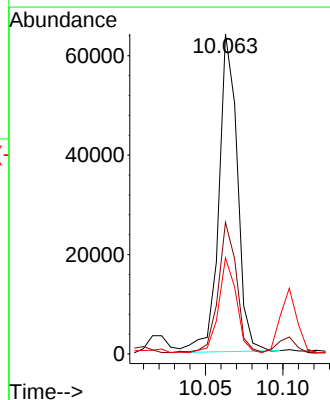
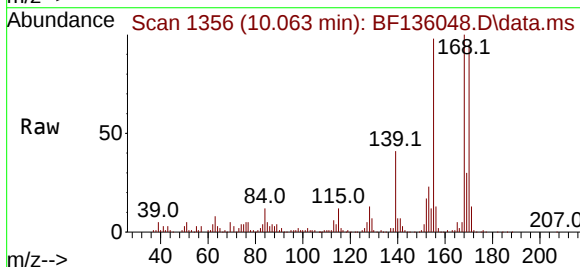
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

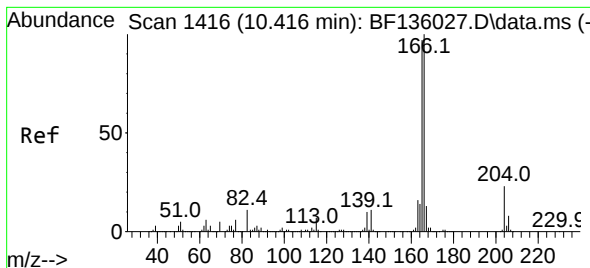
Tgt Ion:184 Resp: 123
Ion Ratio Lower Upper
184 100
63 293.0 43.7 65.5#
154 313.5 51.2 76.8#



#55
Dibenzofuran
Concen: 2.052 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.012 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:168 Resp: 53113
Ion Ratio Lower Upper
168 100
139 41.2 29.4 44.0
169 30.1 10.5 15.7#





#58

Fluorene

Concen: 13.539 ng

RT: 10.410 min Scan# 1416

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

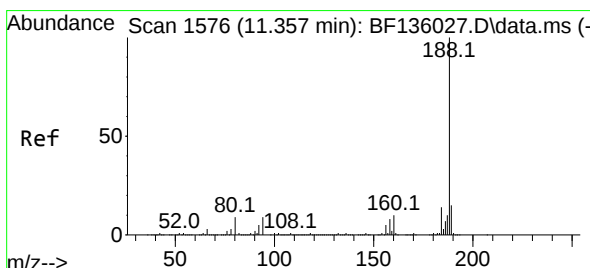
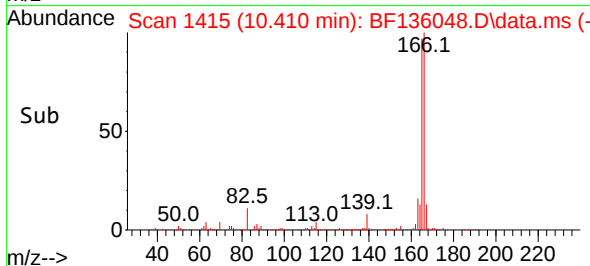
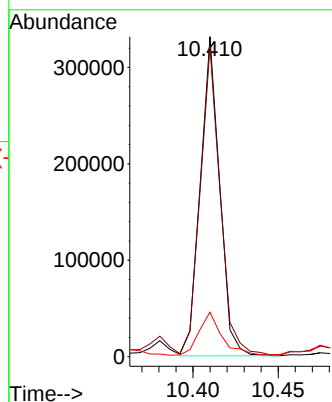
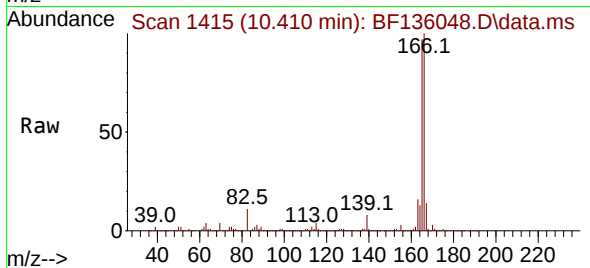
Tgt Ion:166 Resp: 262406

Ion Ratio Lower Upper

166 100

165 96.8 77.7 116.5

167 13.9 10.6 16.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

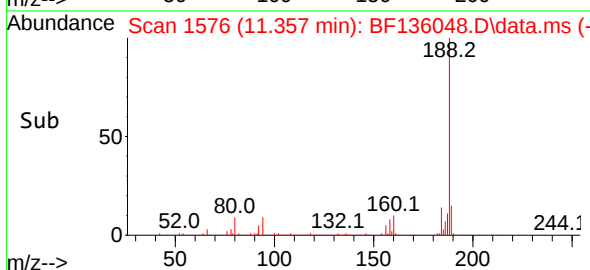
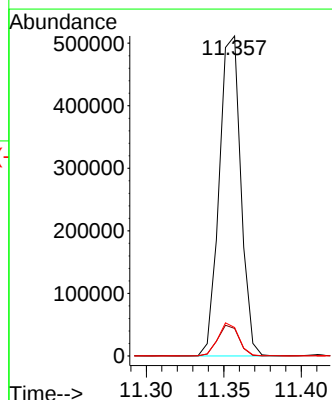
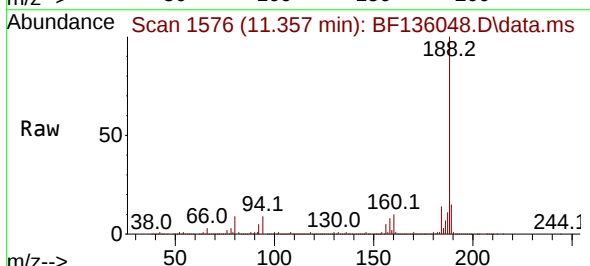
Tgt Ion:188 Resp: 496662

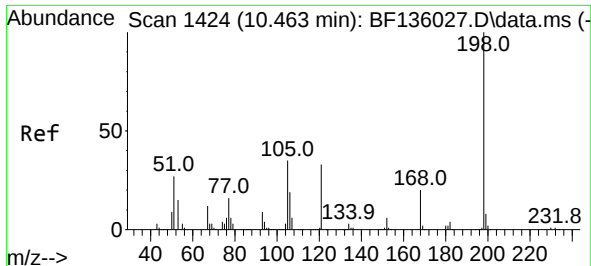
Ion Ratio Lower Upper

188 100

94 8.6 7.2 10.8

80 8.9 7.4 11.0

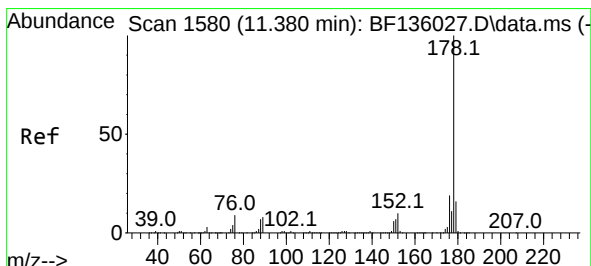
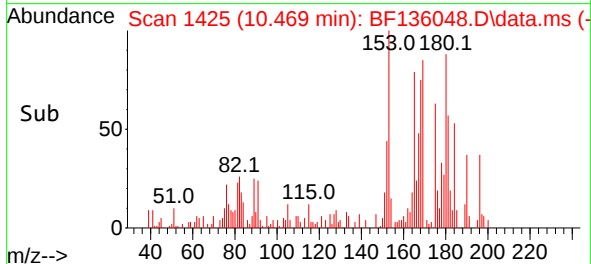
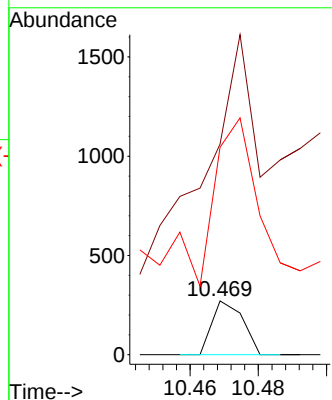
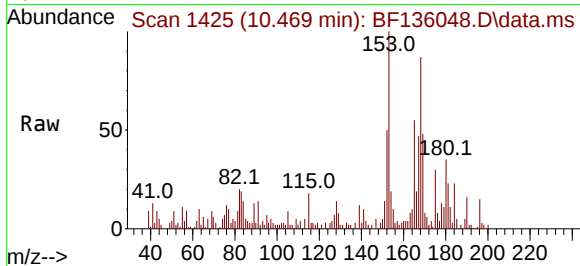




#65
4,6-Dinitro-2-methylphenol
Concen: 5.845 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

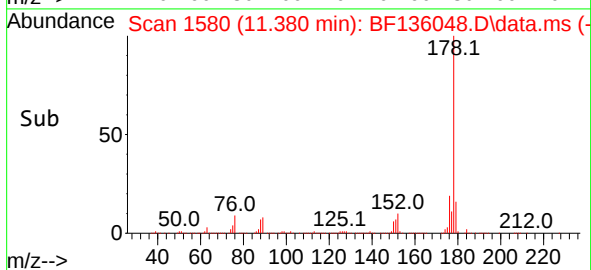
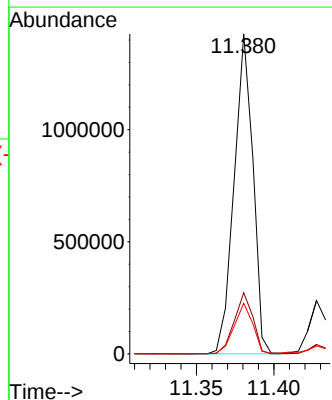
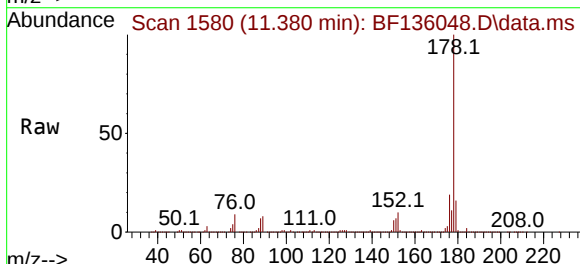
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

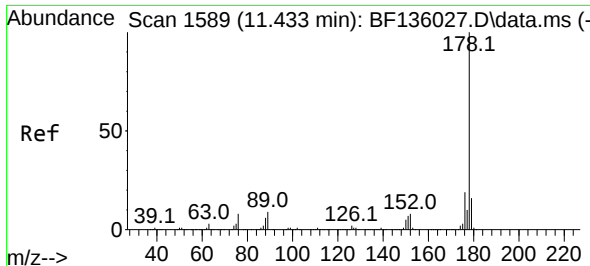
Tgt Ion:198 Resp: 170
Ion Ratio Lower Upper
198 100
51 391.5 12.9 52.9#
105 385.6 16.0 56.0#



#71
Phenanthrene
Concen: 48.075 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:178 Resp: 1202218
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.9 12.9 19.3

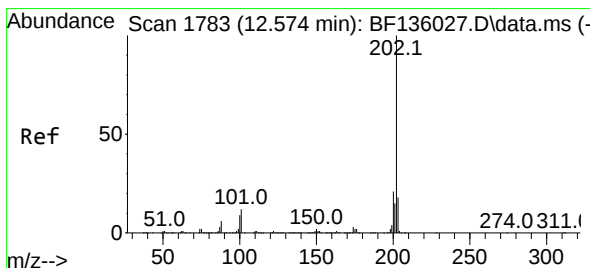
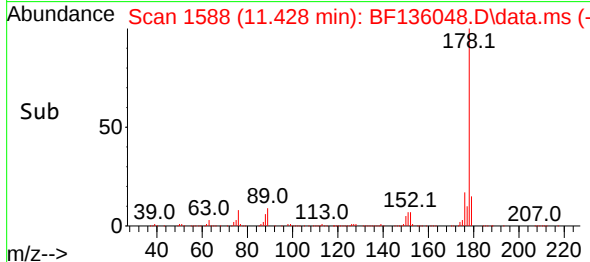
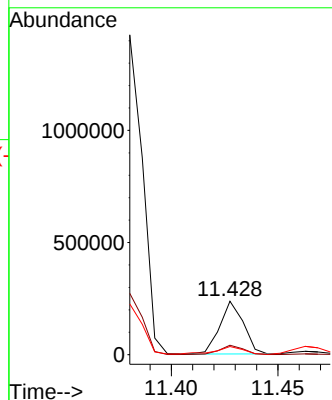
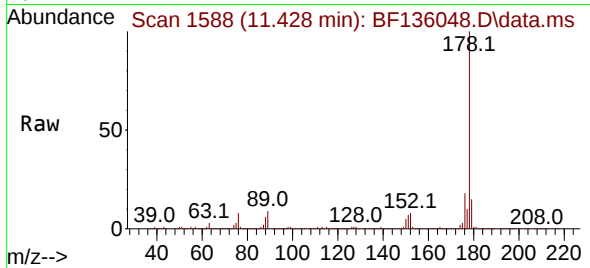




#72
 Anthracene
 Concen: 7.085 ng
 RT: 11.428 min Scan# 1589
 Delta R.T. -0.006 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31

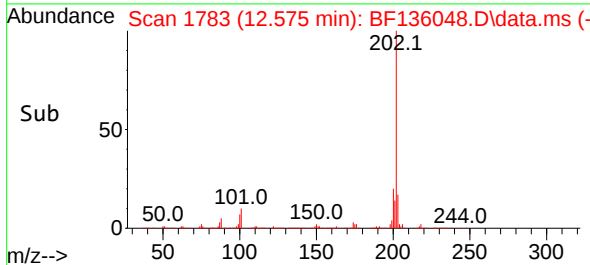
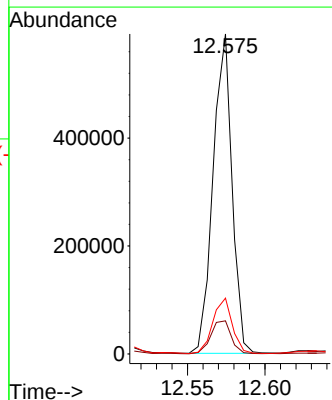
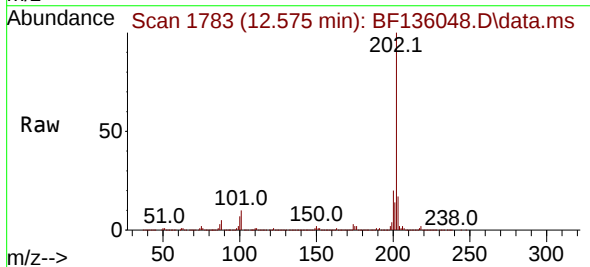
Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL

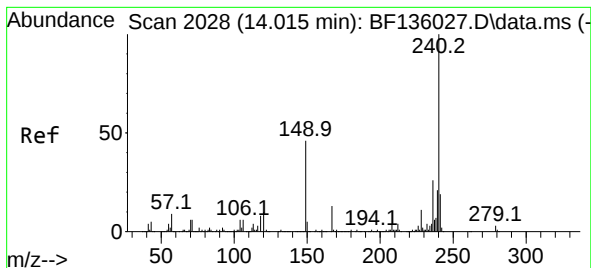
Tgt Ion:178 Resp: 181547
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.0 22.4
 179 15.3 12.6 18.8



#75
 Fluoranthene
 Concen: 19.578 ng
 RT: 12.575 min Scan# 1783
 Delta R.T. 0.000 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31

Tgt Ion:202 Resp: 502954
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 31.8
 203 17.4 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

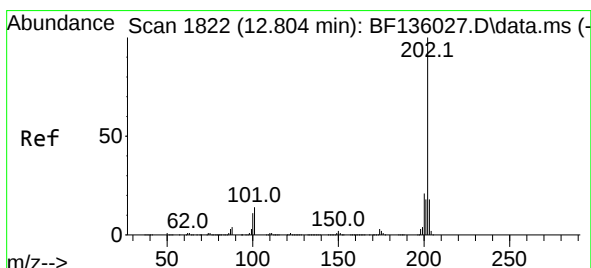
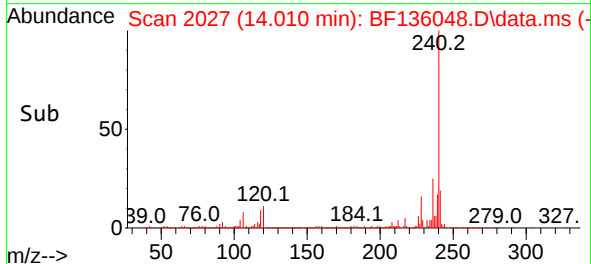
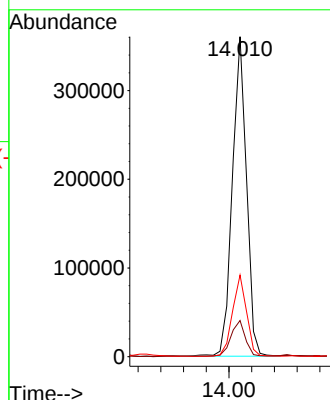
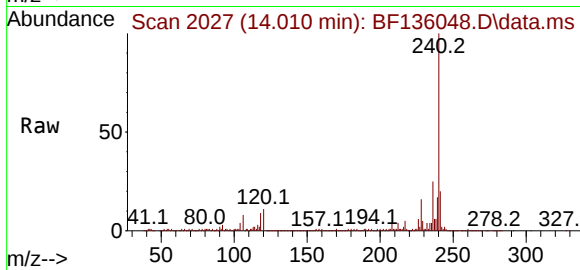
Tgt Ion:240 Resp: 311161

Ion Ratio Lower Upper

240 100

120 11.3 7.6 11.4

236 25.5 20.6 31.0



#78

Pyrene

Concen: 26.418 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

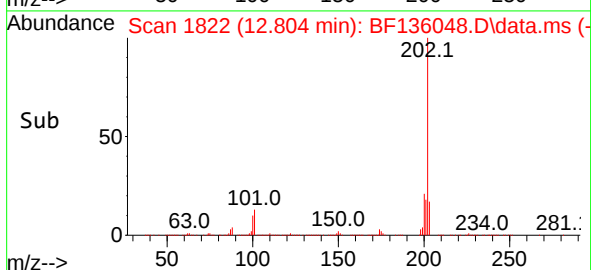
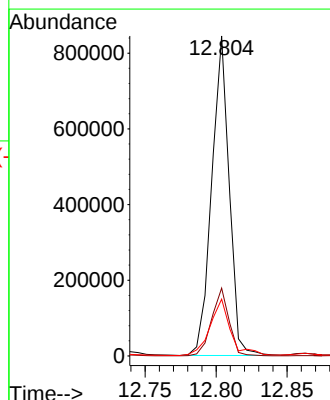
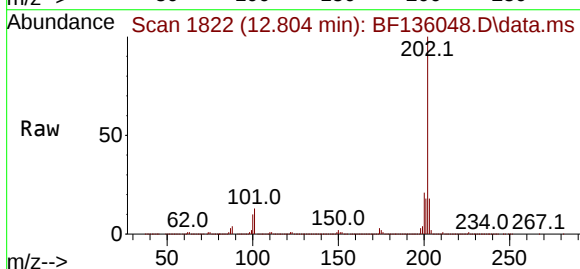
Tgt Ion:202 Resp: 724741

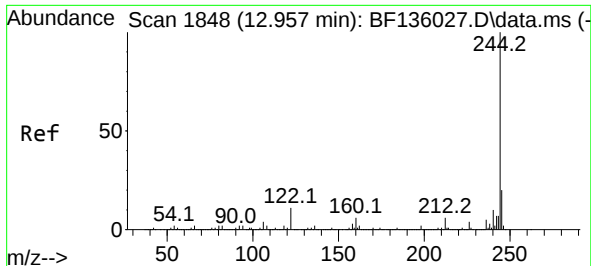
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.4 21.6

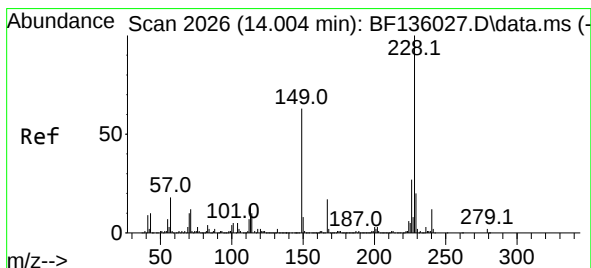
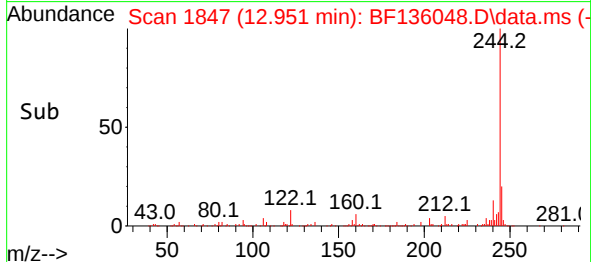
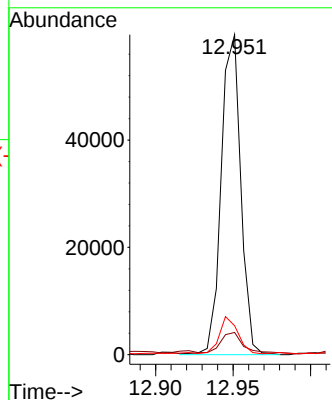
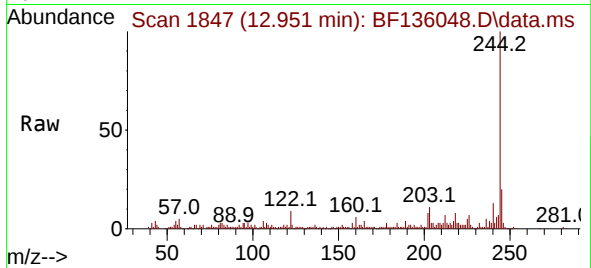




#79
 Terphenyl-d14
 Concen: 2.619 ng
 RT: 12.951 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31

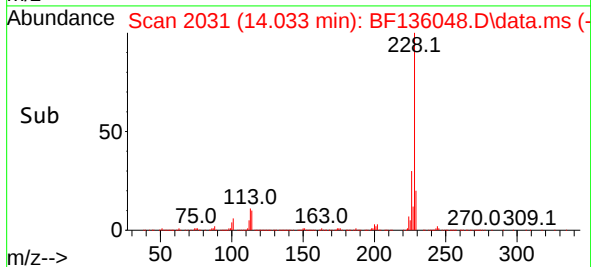
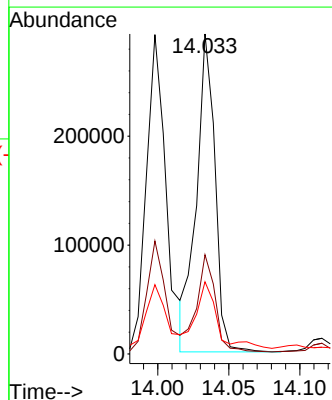
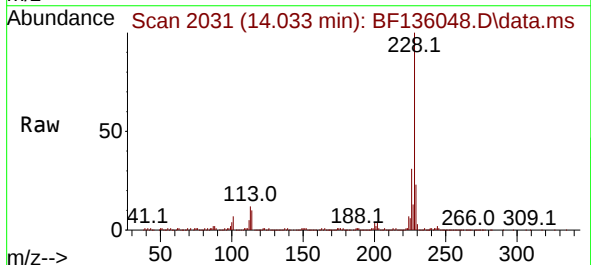
Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL

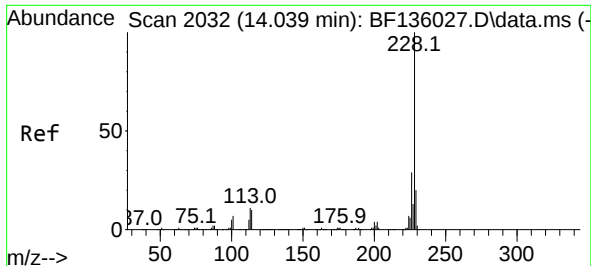
Tgt Ion:244 Resp: 52433
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.1 7.7
 122 9.0 8.6 12.8



#81
 Benzo(a)anthracene
 Concen: 12.904 ng
 RT: 14.033 min Scan# 2031
 Delta R.T. 0.030 min
 Lab File: BF136048.D
 Acq: 31 Oct 2023 13:31

Tgt Ion:228 Resp: 265828
 Ion Ratio Lower Upper
 228 100
 226 31.0 21.5 32.3
 229 22.6 15.8 23.6

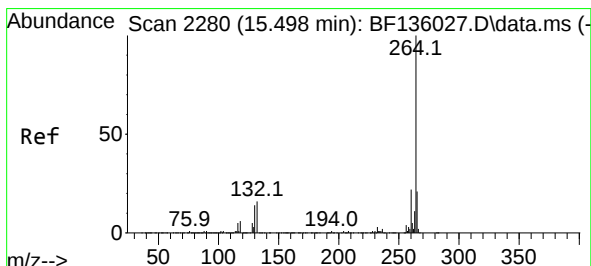
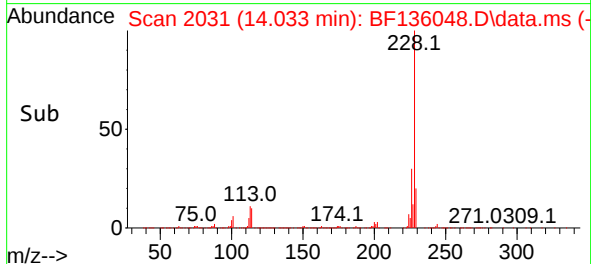
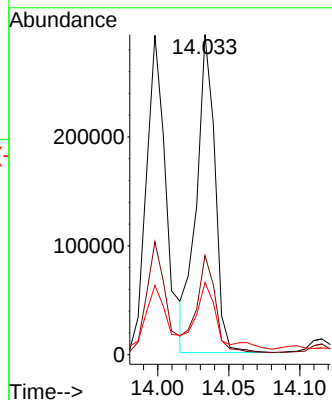
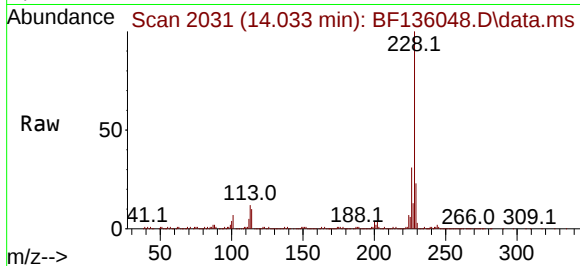




#83
Chrysene
Concen: 13.103 ng
RT: 14.033 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

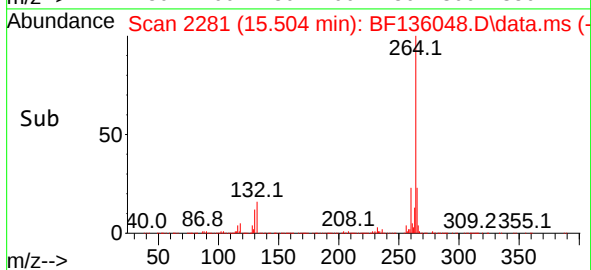
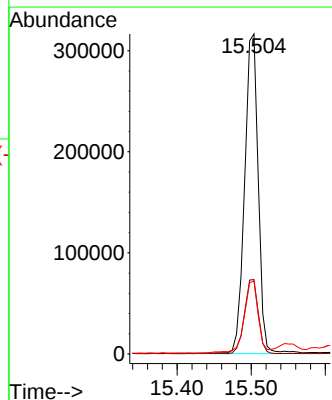
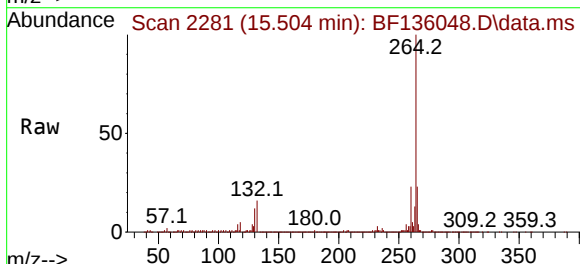
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

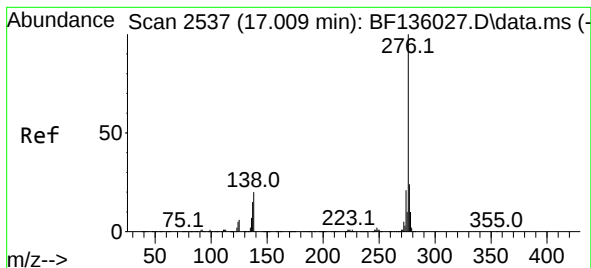
Tgt Ion:228 Resp: 265828
Ion Ratio Lower Upper
228 100
226 31.0 23.5 35.3
229 22.6 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2281
Delta R.T. 0.006 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:264 Resp: 401983
Ion Ratio Lower Upper
264 100
260 23.3 17.9 26.9
265 22.8 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.709 ng

RT: 17.004 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

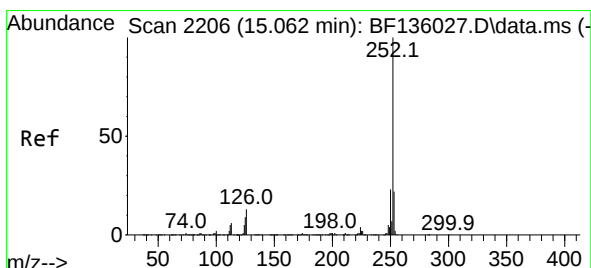
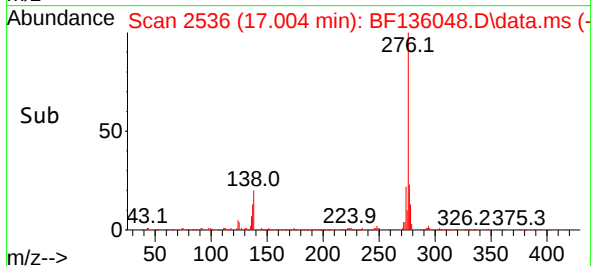
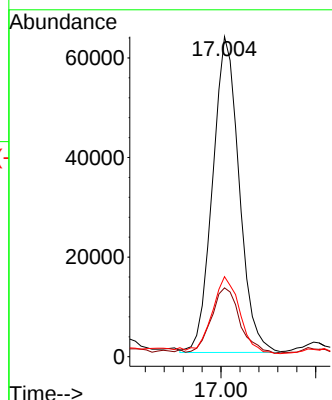
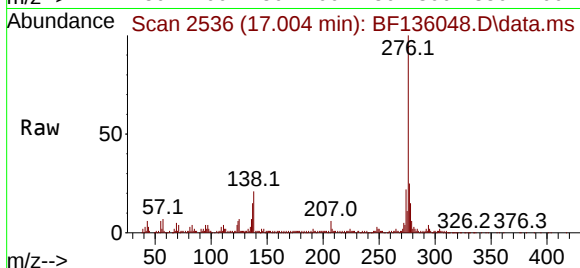
Tgt Ion:276 Resp: 123722

Ion Ratio Lower Upper

276 100

138 21.8 20.4 30.6

277 25.3 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 13.186 ng

RT: 15.063 min Scan# 2206

Delta R.T. 0.000 min

Lab File: BF136048.D

Acq: 31 Oct 2023 13:31

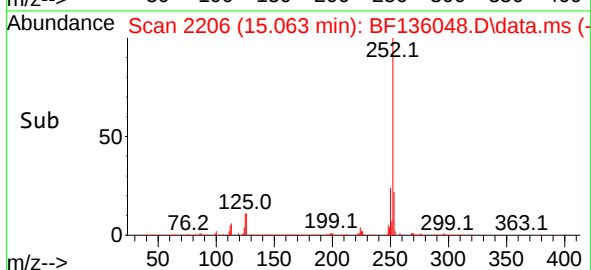
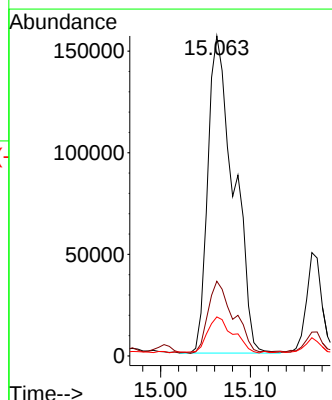
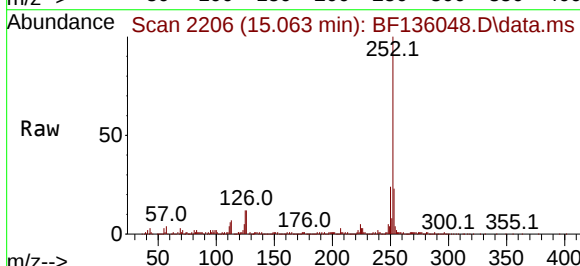
Tgt Ion:252 Resp: 313641

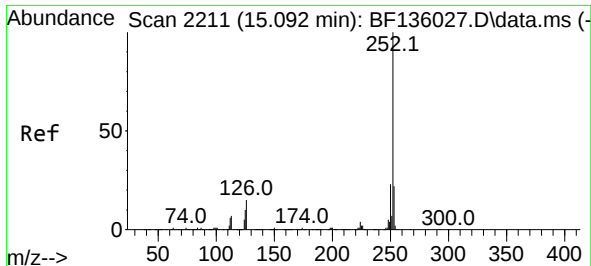
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 12.2 7.5 11.3#

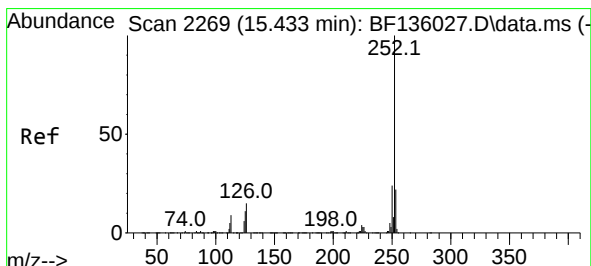
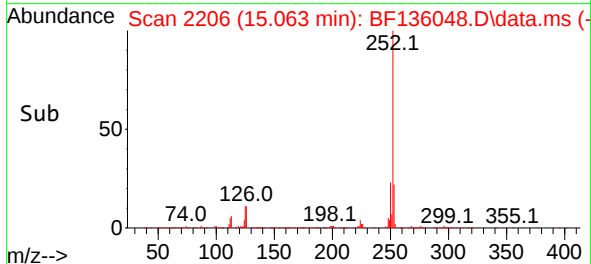
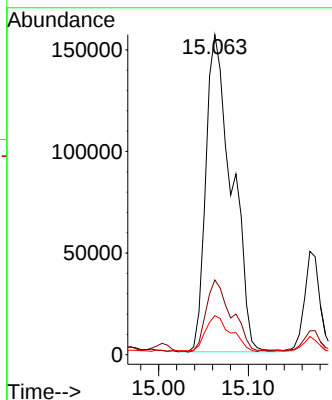
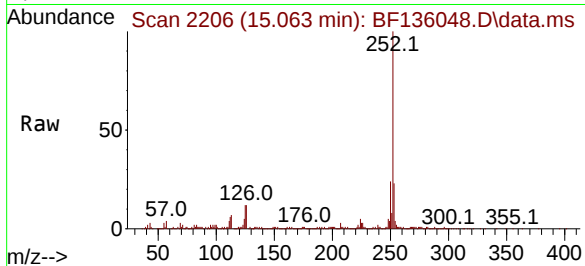




#89
Benzo(k)fluoranthene
Concen: 13.327 ng
RT: 15.063 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

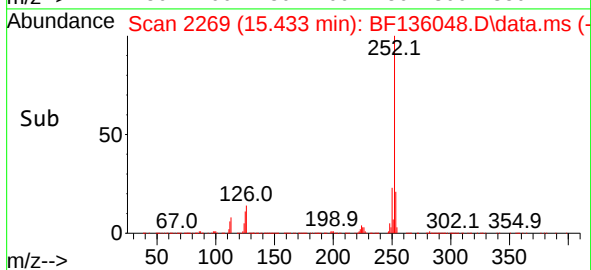
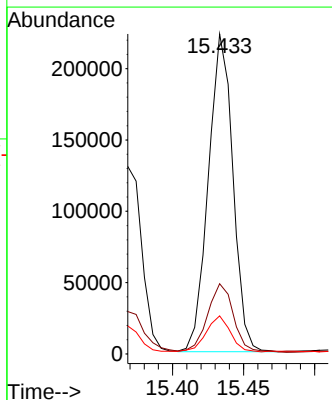
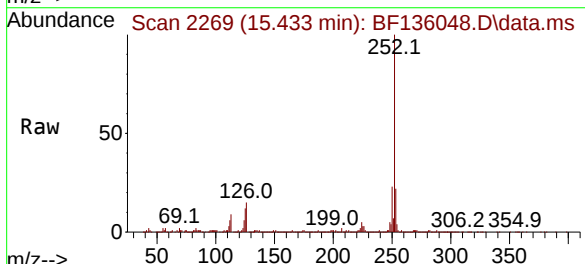
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL

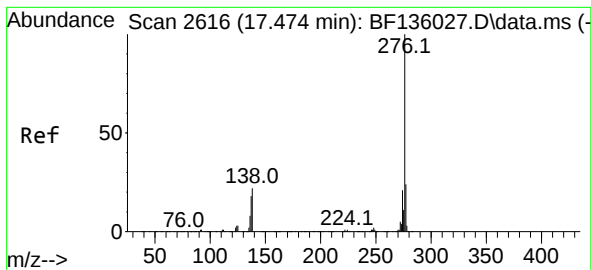
Tgt Ion:252 Resp: 313641
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 12.2 8.0 12.0#



#90
Benzo(a)pyrene
Concen: 12.103 ng
RT: 15.433 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF136048.D
Acq: 31 Oct 2023 13:31

Tgt Ion:252 Resp: 267479
Ion Ratio Lower Upper
252 100
253 21.9 17.3 25.9
125 11.9 9.0 13.6





#92

Benzo(g,h,i)perylene

Concen: 7.972 ng

RT: 17.462 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136048.D

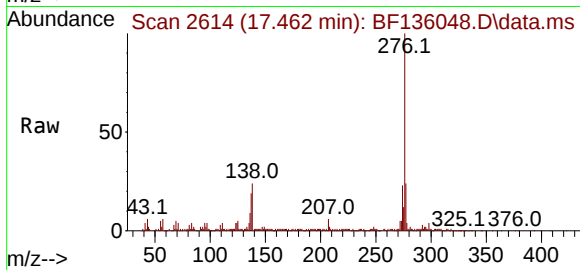
Acq: 31 Oct 2023 13:31

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL



Tgt Ion:276 Resp: 132381

Ion Ratio Lower Upper

276 100

277 23.7 19.0 28.4

138 23.5 17.4 26.2

