

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051723\
 Data File : BF133428.D
 Acq On : 17 May 2023 22:56
 Operator : CG\JU
 Sample : 02812-06 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WG-0516-B3-0-10

Quant Time: May 18 04:07:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 16 14:39:29 2023
 Response via : Initial Calibration

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

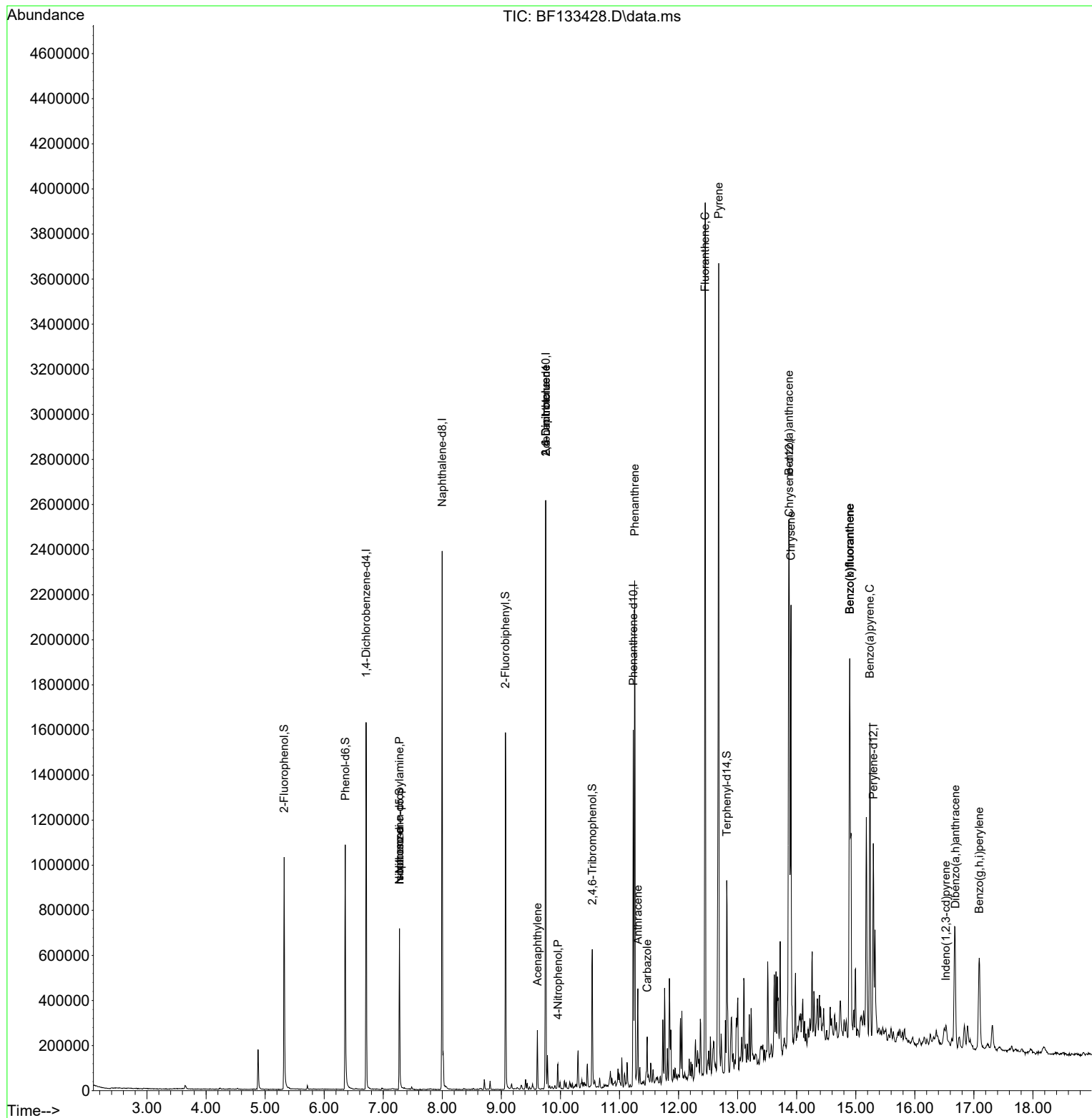
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.710	152	239881	20.000	ng	-0.01
21) Naphthalene-d8	7.998	136	958647	20.000	ng	-0.01
39) Acenaphthene-d10	9.751	164	467356	20.000	ng	-0.01
64) Phenanthrene-d10	11.233	188	548110	20.000	ng	-0.01
76) Chrysene-d12	13.874	240	391377	20.000	ng	-0.01
86) Perylene-d12	15.298	264	364195	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.322	112	308877	19.451	ng	-0.01
7) Phenol-d6	6.357	99	370673	18.806	ng	-0.01
23) Nitrobenzene-d5	7.275	82	208517	11.741	ng	-0.02
42) 2,4,6-Tribromophenol	10.539	330	66390	14.125	ng	-0.01
45) 2-Fluorobiphenyl	9.069	172	471532	16.879	ng	-0.02
79) Terphenyl-d14	12.816	244	274442	12.094	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	6.263	77	191	Below Cal	#	30
19) n-Nitroso-di-n-propyla...	7.275	70	25626	2.088	ng	# 75
25) Isophorone	7.275	82	208515	6.184	ng	# 62
49) Acenaphthylene	9.610	152	98299	2.268	ng	# 99
51) 2,6-Dinitrotoluene	9.751	165	62050	8.460	ng	# 25
56) 4-Nitrophenol	9.957	139	13745	2.035	ng	# 18
57) 2,4-Dinitrotoluene	9.751	165	62050	6.634	ng	# 23
71) Phenanthrene	11.257	178	826644	28.061	ng	99
72) Anthracene	11.310	178	156140	5.179	ng	98
73) Carbazole	11.469	167	81377	3.031	ng	99
75) Fluoranthene	12.451	202	1526618	51.635	ng	97
78) Pyrene	12.680	202	1479197	44.089	ng	100
81) Benzo(a)anthracene	13.868	228	813810	30.238	ng	97
83) Chrysene	13.904	228	763819	28.387	ng	96
87) Indeno(1,2,3-cd)pyrene	16.527	276	60318	2.912	ng	94
88) Benzo(b)fluoranthene	14.898	252	1210215	52.233	ng	98
89) Benzo(k)fluoranthene	14.898	252	1210215	52.692	ng	98
90) Benzo(a)pyrene	15.239	252	638916	30.296	ng	97
91) Dibenzo(a,h)anthracene	16.686	278	79932	4.626	ng	94
92) Benzo(g,h,i)perylene	17.092	276	317126	18.591	ng	97

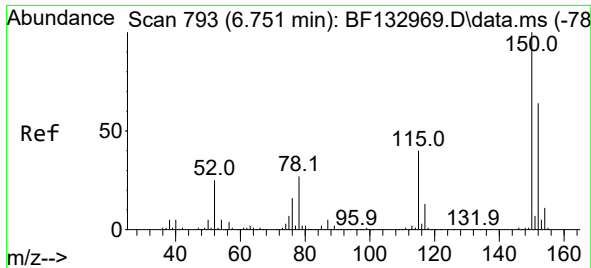
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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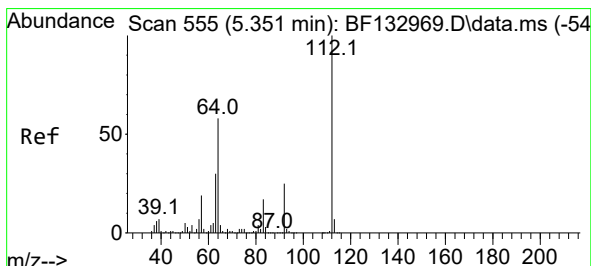
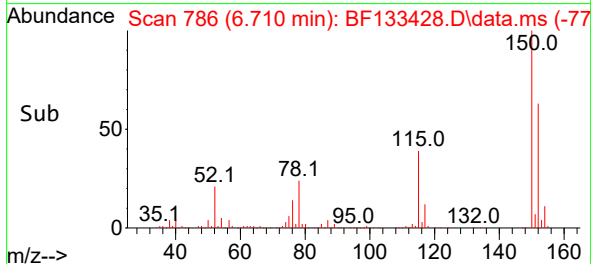
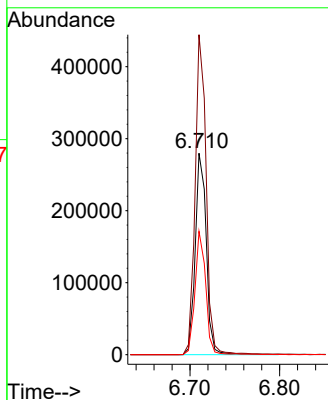
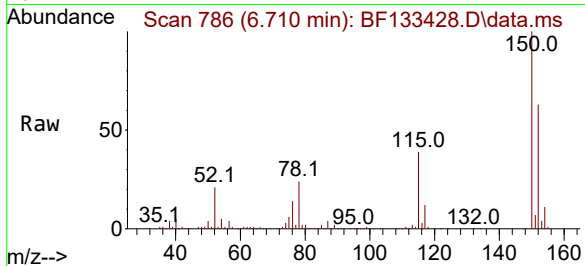




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.710 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

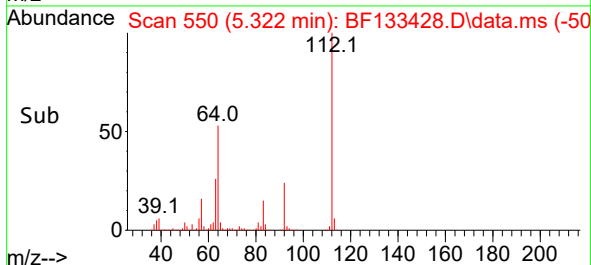
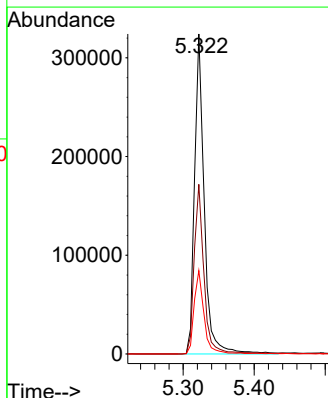
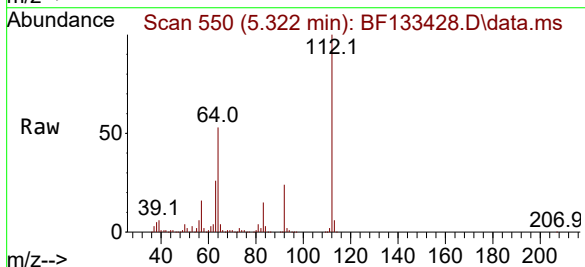
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

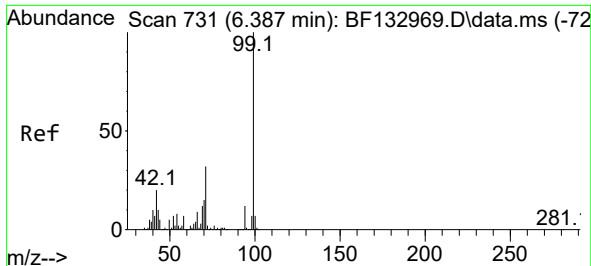
Tgt Ion:152 Resp: 239881
Ion Ratio Lower Upper
152 100
150 158.9 124.8 187.2
115 61.3 49.9 74.9



#5
2-Fluorophenol
Concen: 19.451 ng
RT: 5.322 min Scan# 550
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:112 Resp: 308877
Ion Ratio Lower Upper
112 100
64 53.0 46.8 70.2
63 26.1 23.8 35.8

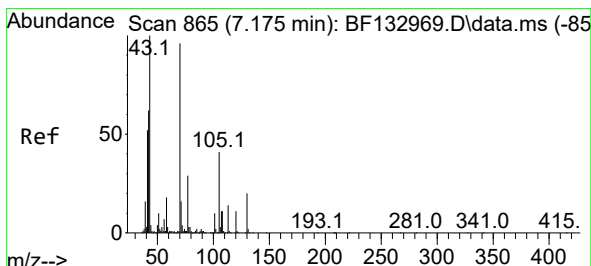
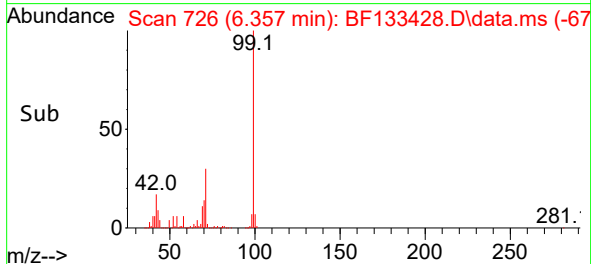
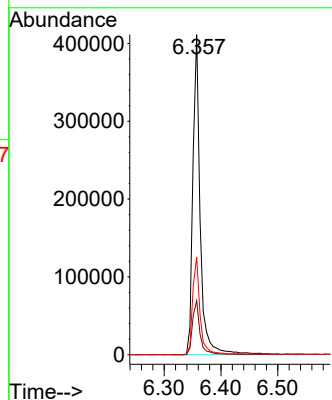
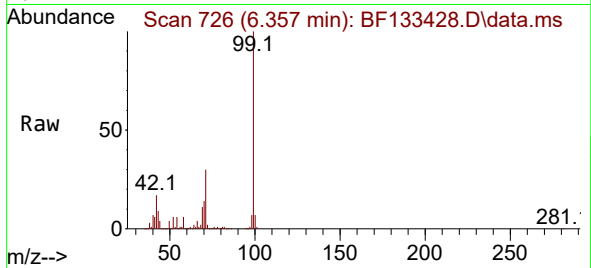




#7
Phenol-d6
Concen: 18.806 ng
RT: 6.357 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

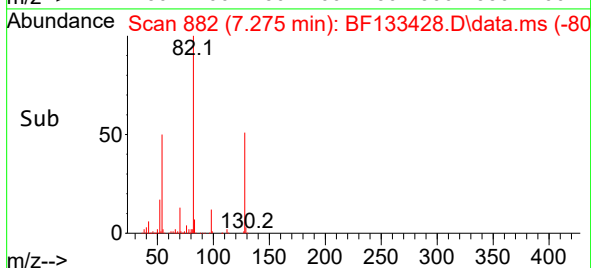
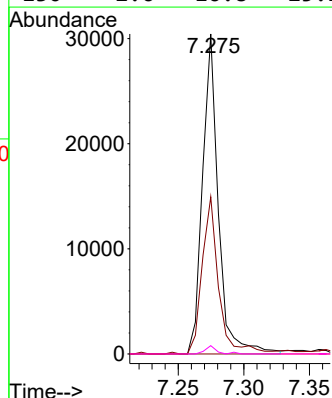
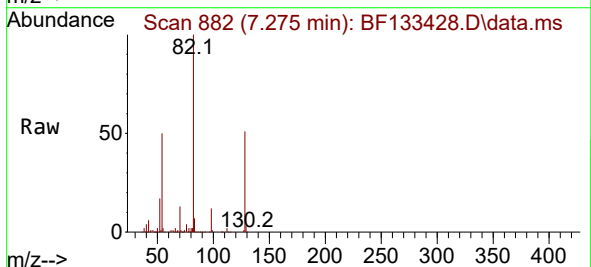
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

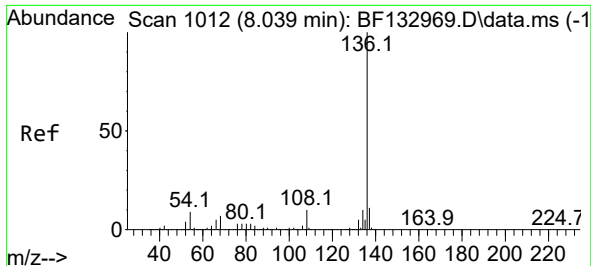
Tgt Ion: 99 Resp: 370673
Ion Ratio Lower Upper
99 100
42 16.8 16.3 24.5
71 30.5 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 2.088 ng
RT: 7.275 min Scan# 882
Delta R.T. 0.129 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion: 70 Resp: 25626
Ion Ratio Lower Upper
70 100
42 49.1 51.8 77.6#
101 0.0 8.0 12.0#
130 2.6 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.998 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10

Tgt Ion:136 Resp: 958647

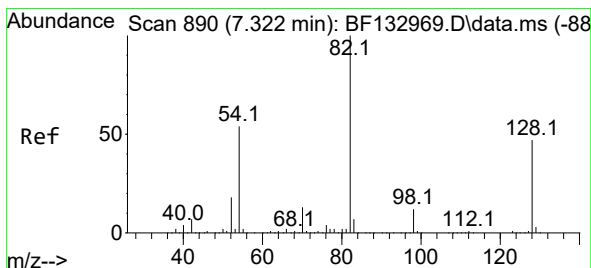
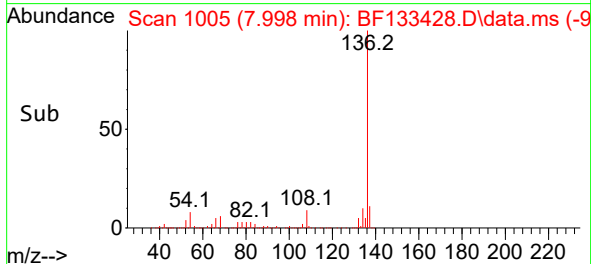
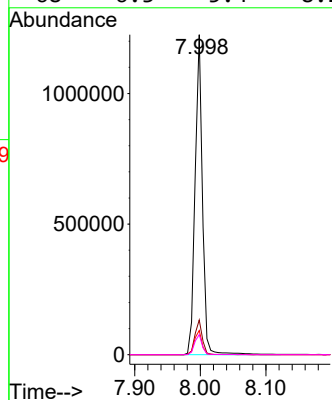
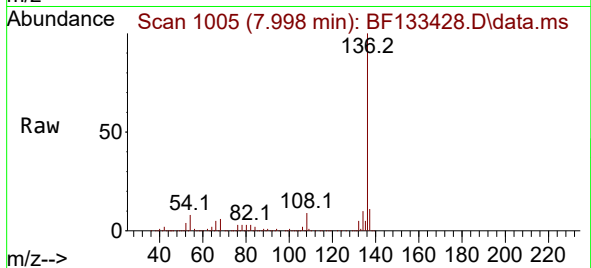
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 7.6 7.0 10.4

68 6.3 5.4 8.2



#23

Nitrobenzene-d5

Concen: 11.741 ng

RT: 7.275 min Scan# 882

Delta R.T. -0.018 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

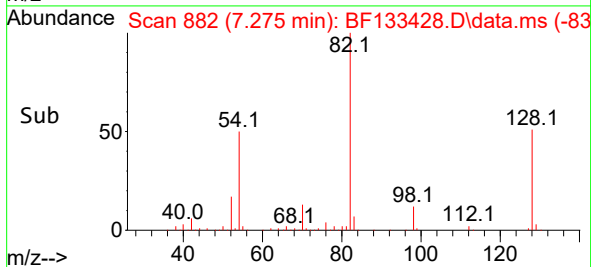
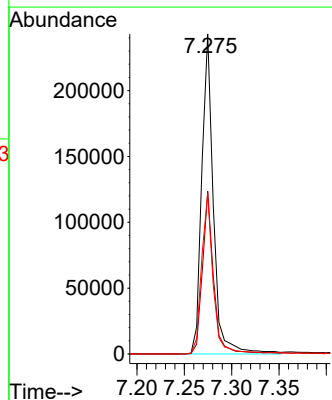
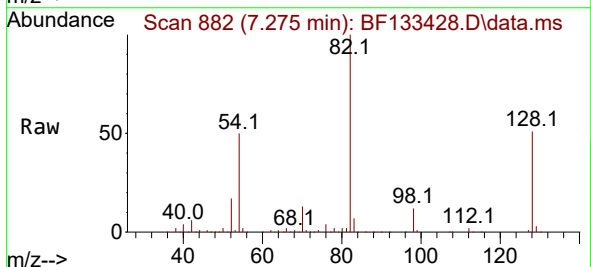
Tgt Ion: 82 Resp: 208517

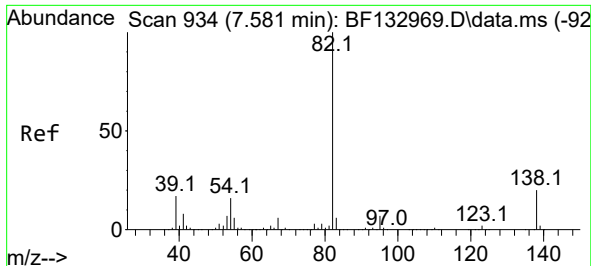
Ion Ratio Lower Upper

82 100

128 50.9 37.7 56.5

54 50.2 43.0 64.4

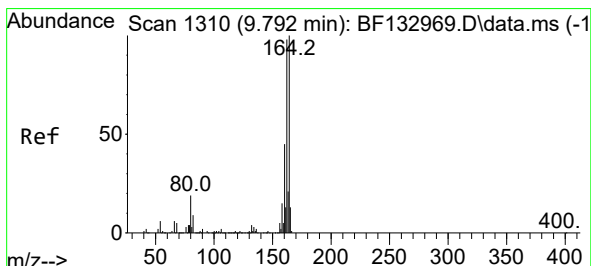
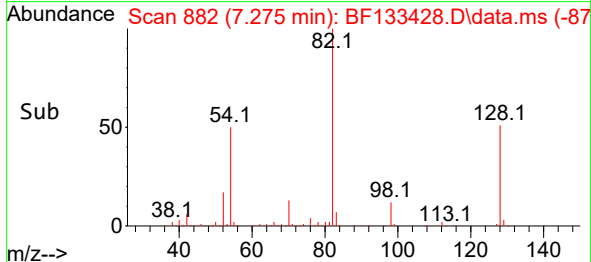
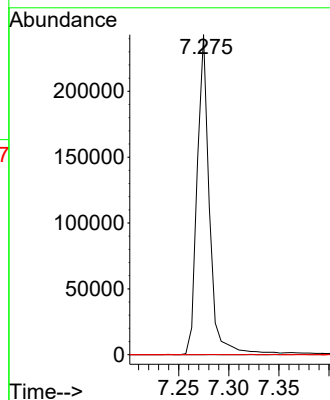
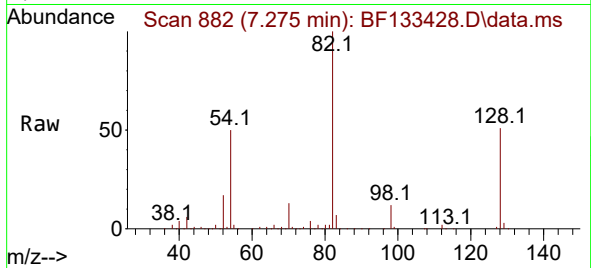




#25
Isophorone
Concen: 6.184 ng
RT: 7.275 min Scan# 81
Delta R.T. -0.277 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

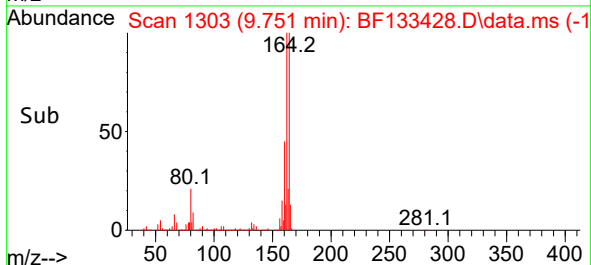
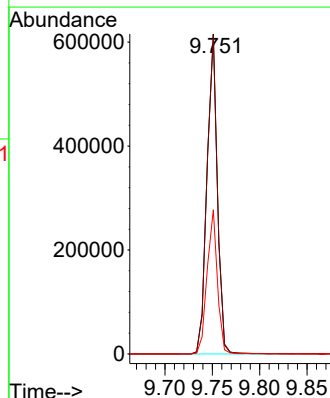
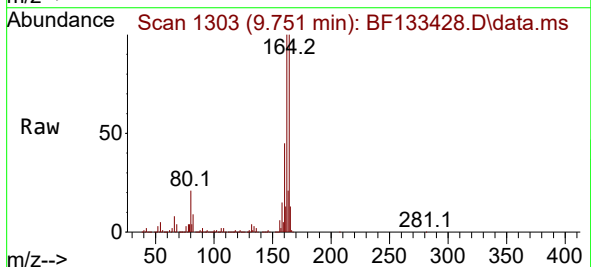
Instrument :
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WG-0516-B3-0-10

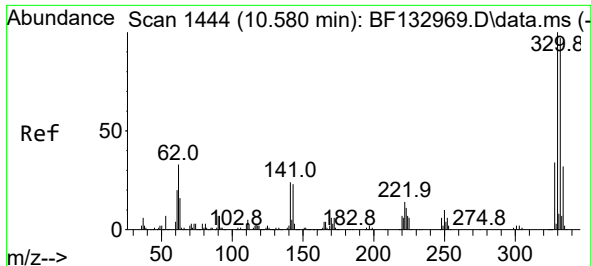
Tgt Ion: 82 Resp: 208515
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 16.0 24.0#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.751 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:164 Resp: 467356
Ion Ratio Lower Upper
164 100
162 99.8 78.7 118.1
160 45.0 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 14.125 ng

RT: 10.539 min Scan# 1444

Delta R.T. -0.012 min

Lab File: BF133428.D

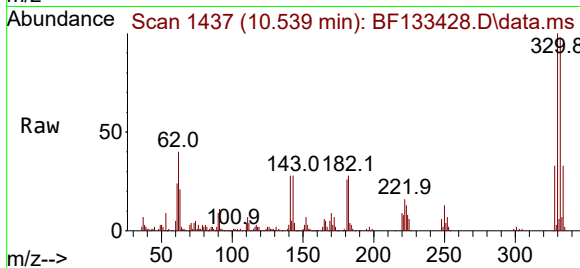
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Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10



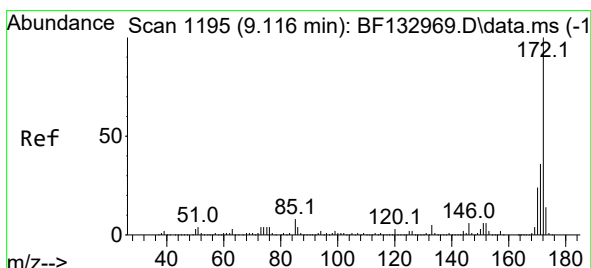
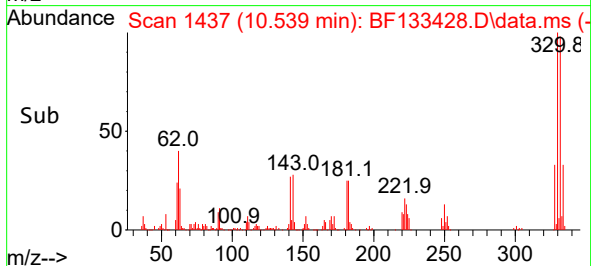
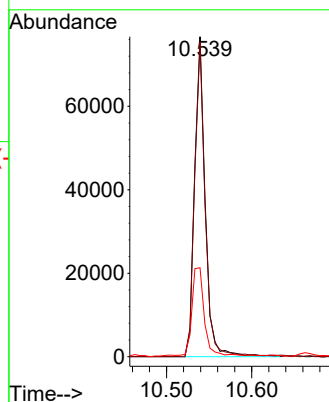
Tgt Ion:330 Resp: 66390

Ion Ratio Lower Upper

330 100

332 97.3 77.1 115.7

141 34.5 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 16.879 ng

RT: 9.069 min Scan# 1187

Delta R.T. -0.018 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

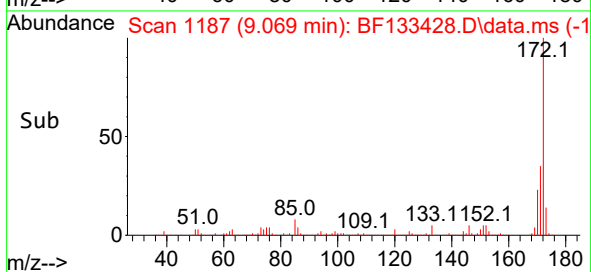
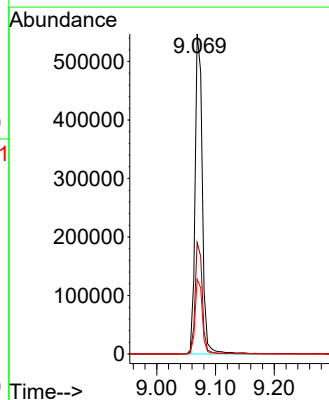
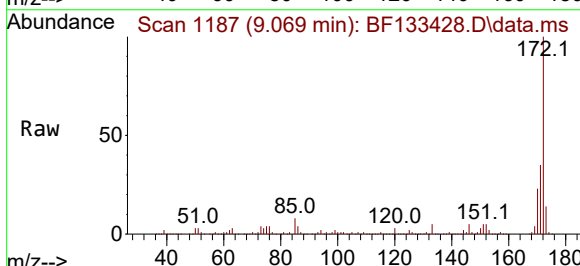
Tgt Ion:172 Resp: 471532

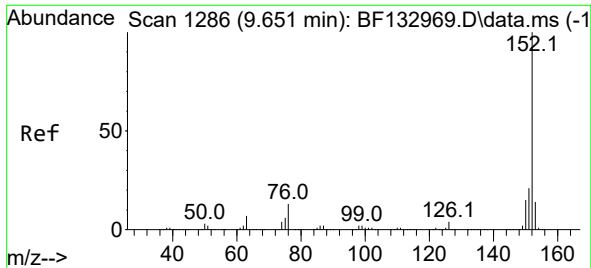
Ion Ratio Lower Upper

172 100

171 34.8 28.8 43.2

170 23.3 19.4 29.2





#49

Acenaphthylene

Concen: 2.268 ng

RT: 9.610 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

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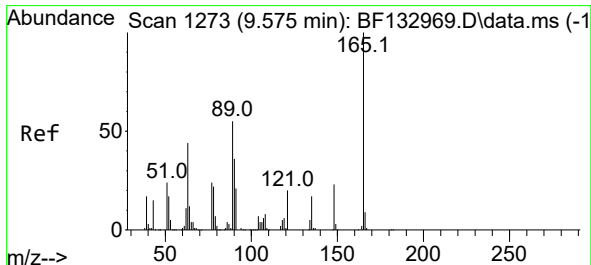
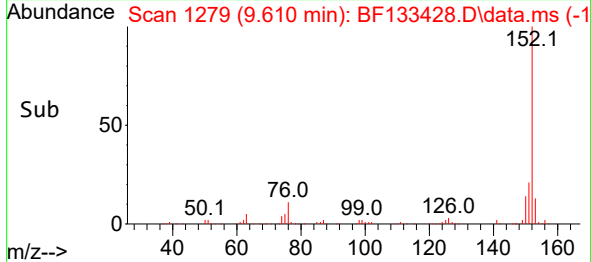
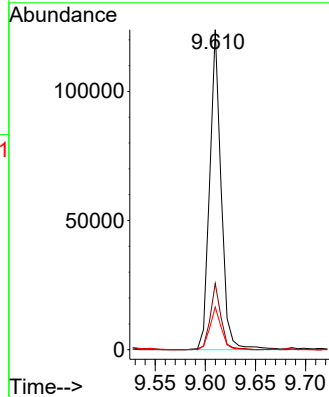
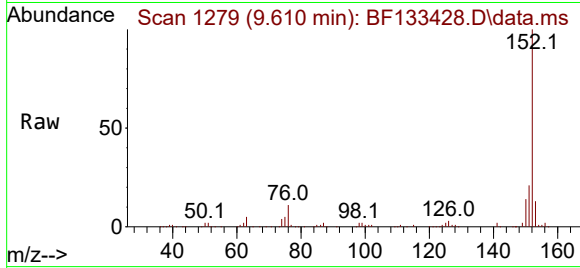
Tgt Ion:152 Resp: 98299

Ion Ratio Lower Upper

152 100

151 20.7 16.6 24.8

153 13.4 11.5 17.3



#51

2,6-Dinitrotoluene

Concen: 8.460 ng

RT: 9.751 min Scan# 1303

Delta R.T. 0.200 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

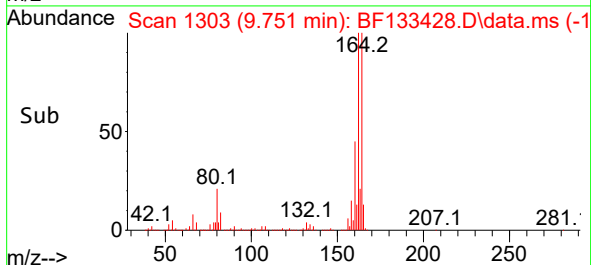
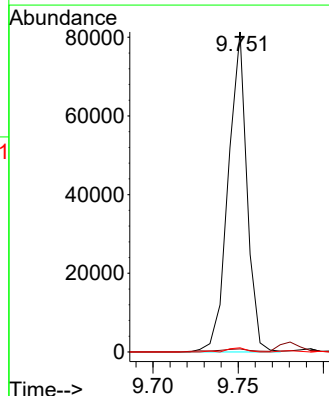
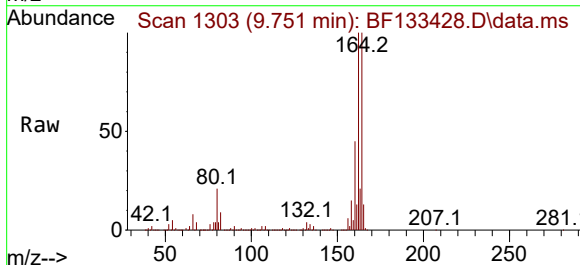
Tgt Ion:165 Resp: 62050

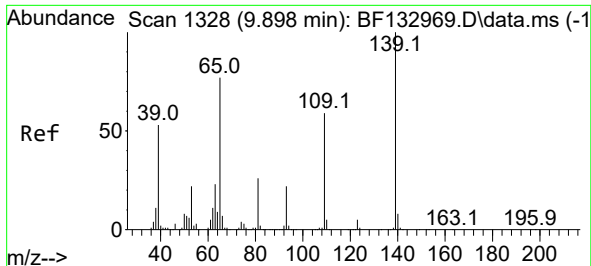
Ion Ratio Lower Upper

165 100

63 0.9 45.9 68.9#

89 1.3 44.0 66.0#

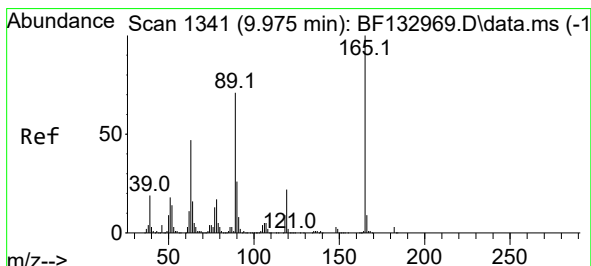
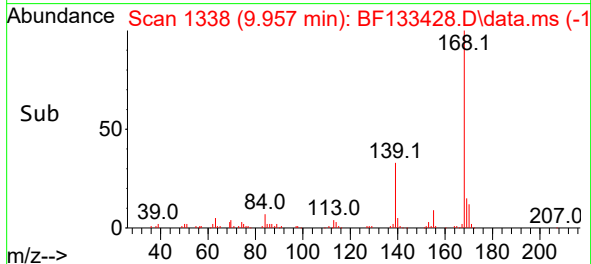
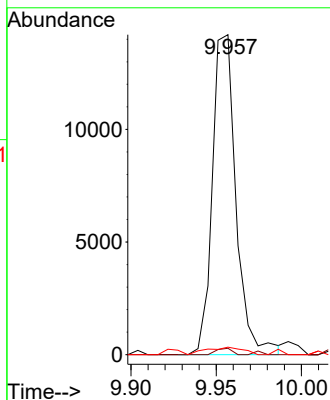
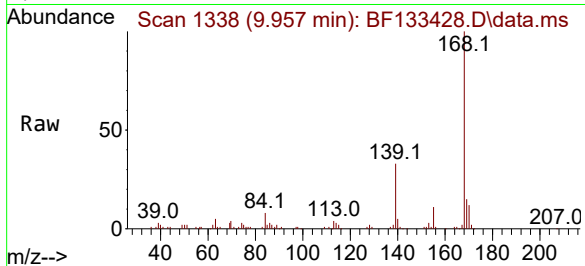




#56
4-Nitrophenol
Concen: 2.035 ng
RT: 9.957 min Scan# 1338
Delta R.T. 0.065 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

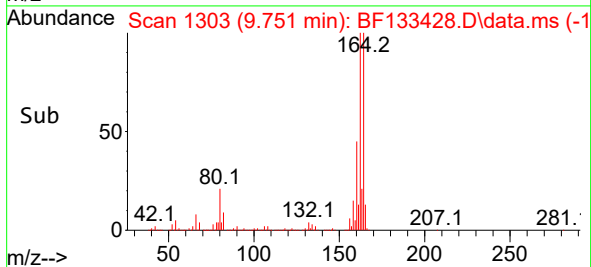
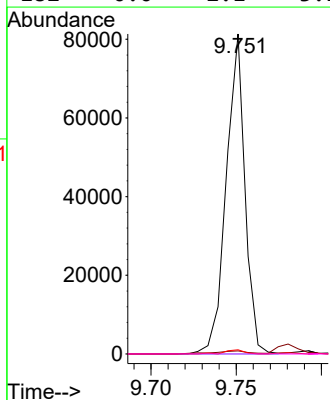
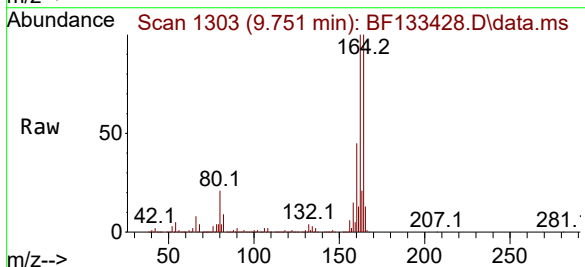
Instrument :
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ClientSampleId :
WG-0516-B3-0-10

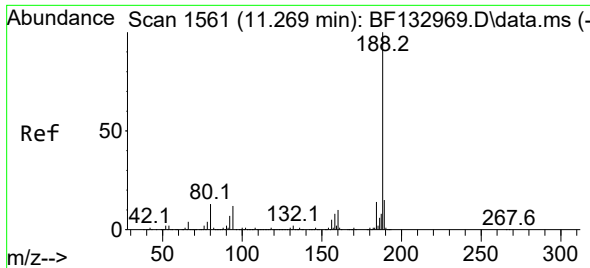
Tgt Ion:139 Resp: 13745
Ion Ratio Lower Upper
139 100
109 2.0 39.4 79.4#
65 2.4 57.5 97.5#



#57
2,4-Dinitrotoluene
Concen: 6.634 ng
RT: 9.751 min Scan# 1303
Delta R.T. -0.206 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:165 Resp: 62050
Ion Ratio Lower Upper
165 100
63 0.9 37.7 56.5#
89 1.3 57.0 85.4#
182 0.0 2.1 3.1#

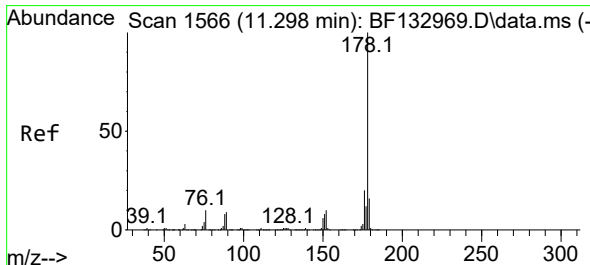
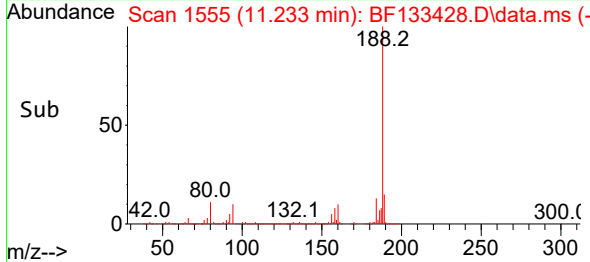
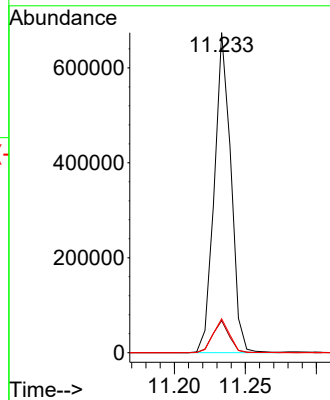
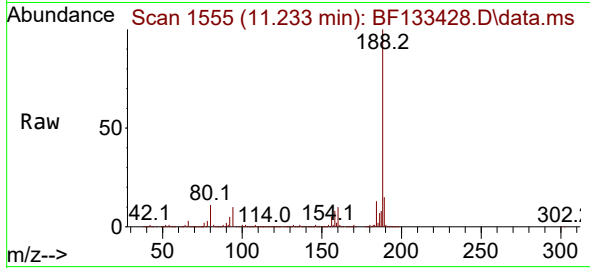




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.233 min Scan# 1555
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

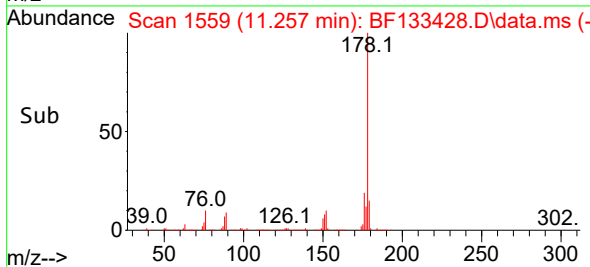
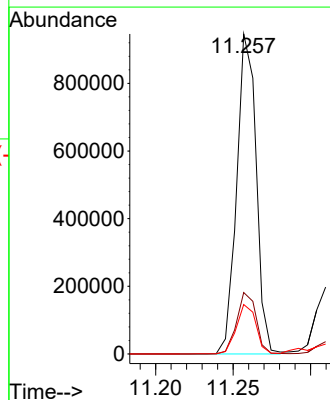
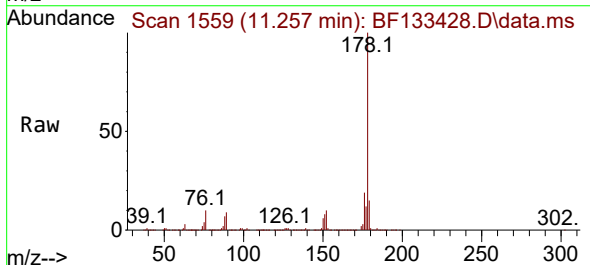
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

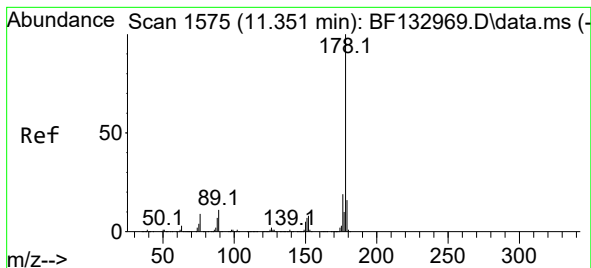
Tgt Ion:188 Resp: 548110
Ion Ratio Lower Upper
188 100
94 10.0 9.7 14.5
80 10.6 10.4 15.6



#71
Phenanthrene
Concen: 28.061 ng
RT: 11.257 min Scan# 1559
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:178 Resp: 826644
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.5 12.5 18.7





#72

Anthracene

Concen: 5.179 ng

RT: 11.310 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10

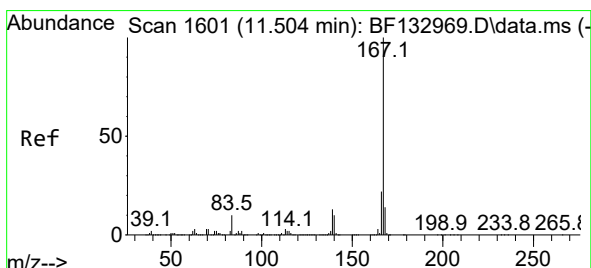
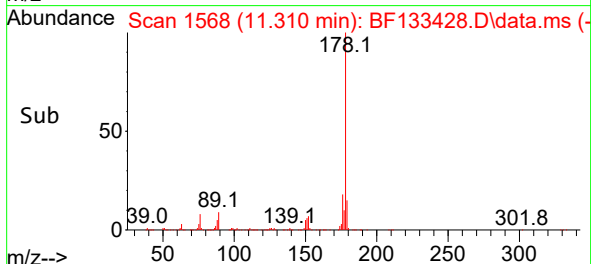
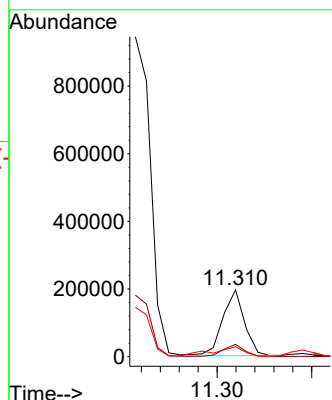
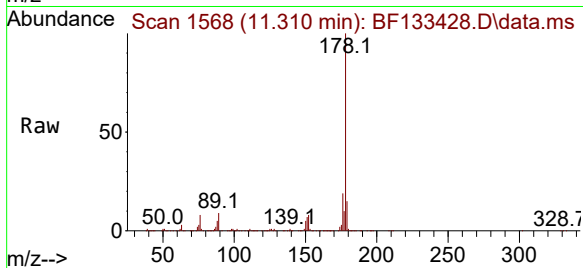
Tgt Ion:178 Resp: 156140

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.0

179 14.9 12.4 18.6



#73

Carbazole

Concen: 3.031 ng

RT: 11.469 min Scan# 1595

Delta R.T. -0.012 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

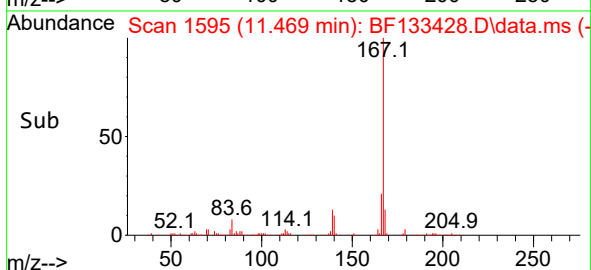
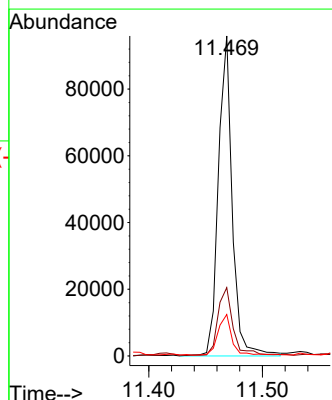
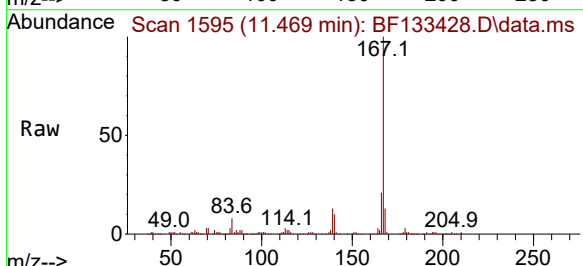
Tgt Ion:167 Resp: 81377

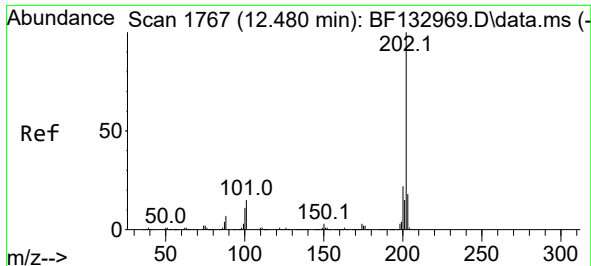
Ion Ratio Lower Upper

167 100

166 21.3 17.4 26.0

139 12.9 10.6 16.0

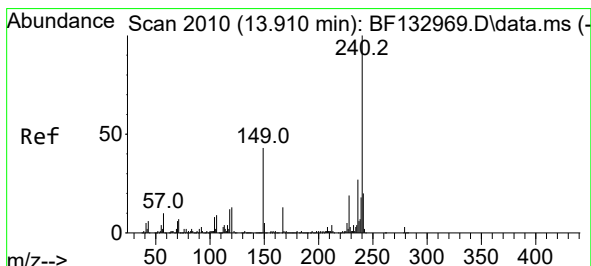
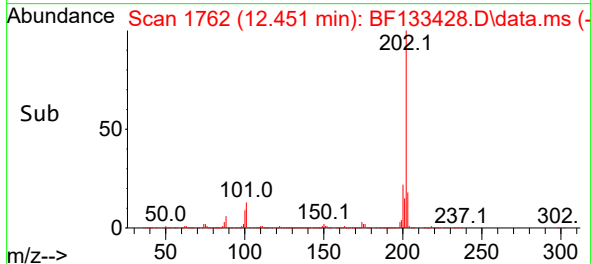
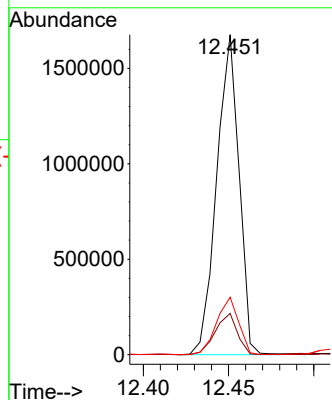
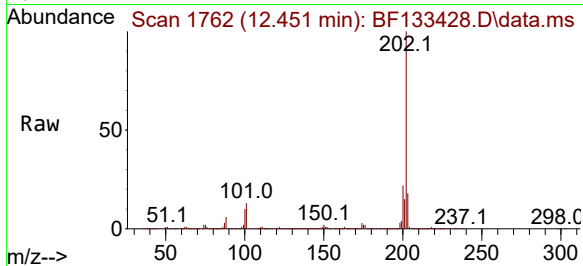




#75
Fluoranthene
Concen: 51.635 ng
RT: 12.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

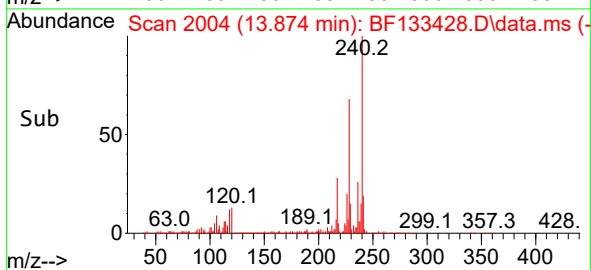
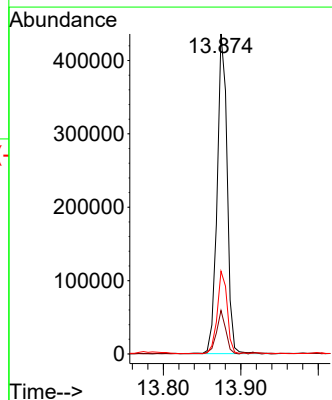
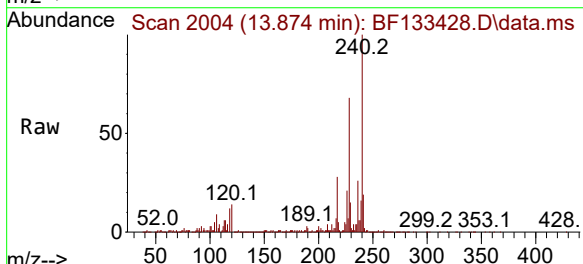
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

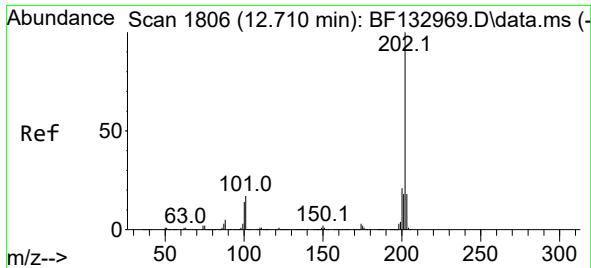
Tgt Ion:202 Resp: 1526618
Ion Ratio Lower Upper
202 100
101 12.9 0.0 35.3
203 17.9 0.0 38.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.874 min Scan# 2004
Delta R.T. -0.012 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:240 Resp: 391377
Ion Ratio Lower Upper
240 100
120 13.6 10.5 15.7
236 25.8 21.5 32.3

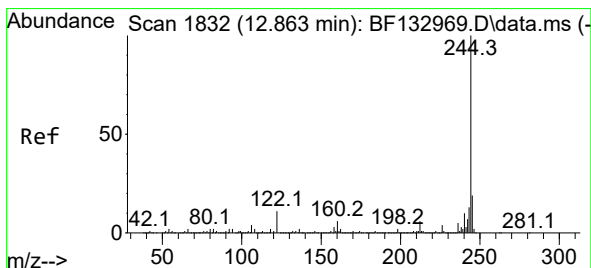
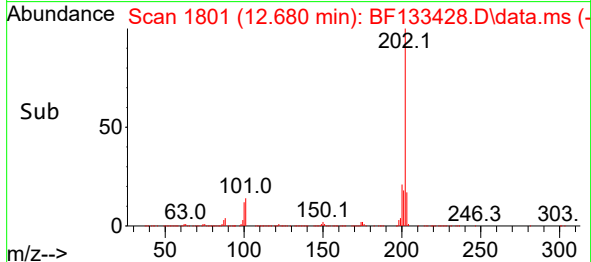
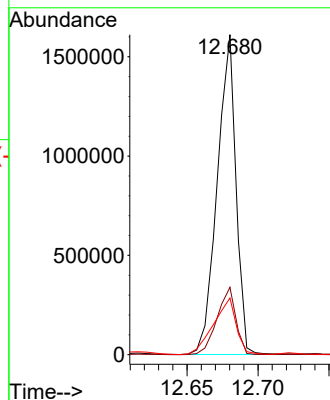
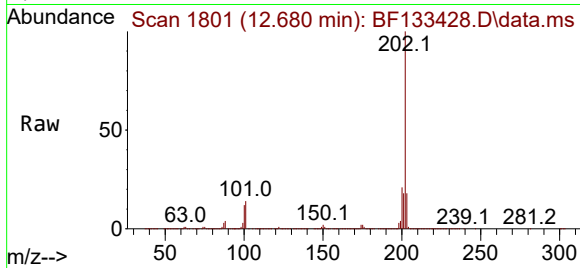




#78
Pyrene
Concen: 44.089 ng
RT: 12.680 min Scan# 1806
Delta R.T. -0.006 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

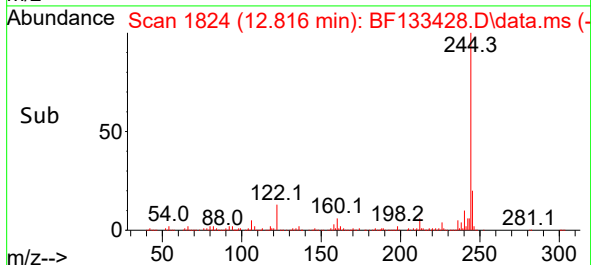
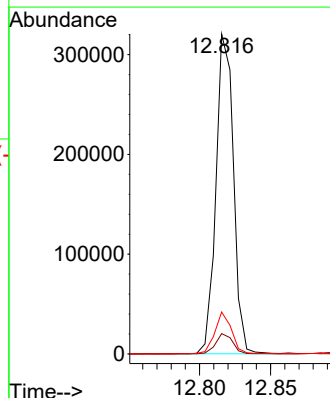
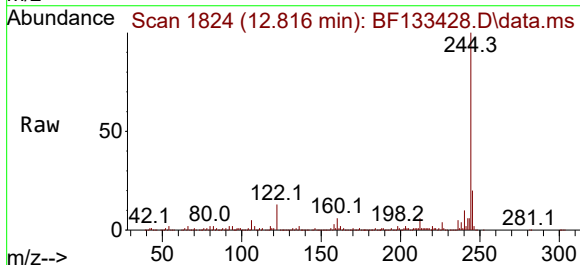
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

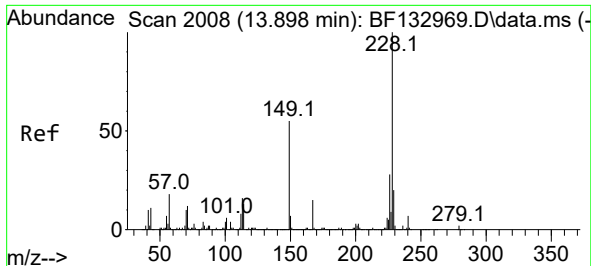
Tgt Ion:202 Resp: 1479197
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.7 14.1 21.1



#79
Terphenyl-d14
Concen: 12.094 ng
RT: 12.816 min Scan# 1824
Delta R.T. -0.018 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:244 Resp: 274442
Ion Ratio Lower Upper
244 100
212 6.4 5.1 7.7
122 13.1 8.6 13.0#

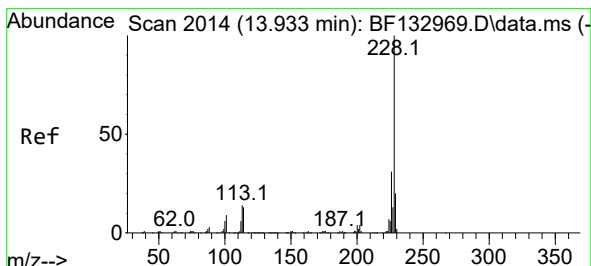
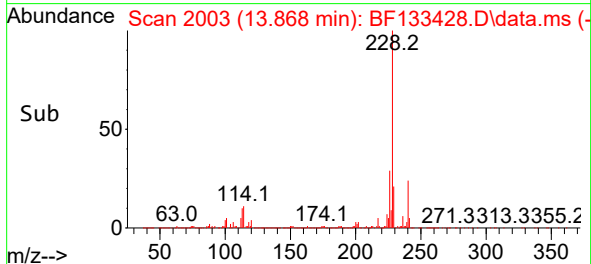
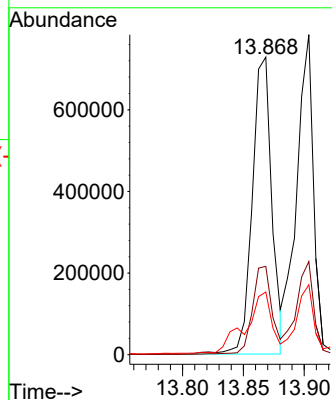
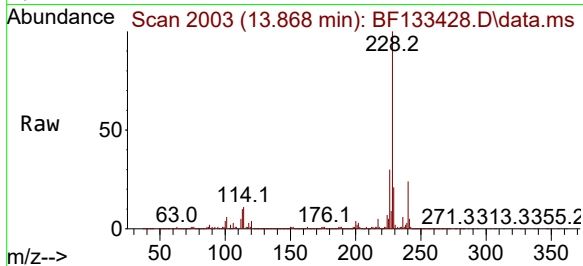




#81
Benzo(a)anthracene
Concen: 30.238 ng
RT: 13.868 min Scan# 2008
Delta R.T. -0.006 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

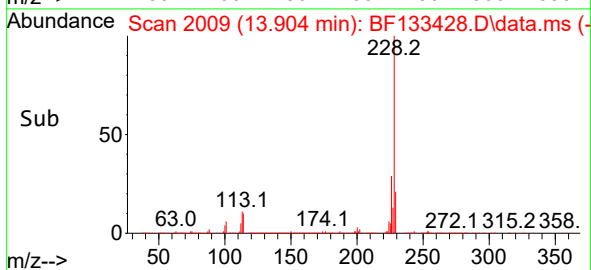
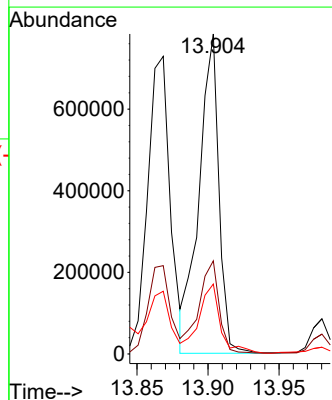
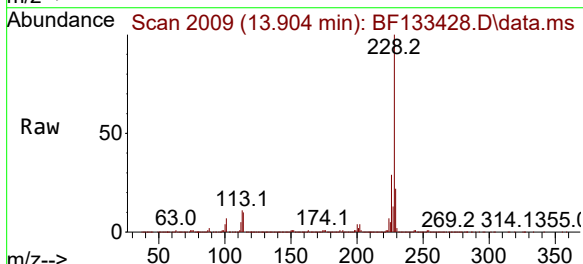
Instrument :
BNA_F
ClientSampleId :
WG-0516-B3-0-10

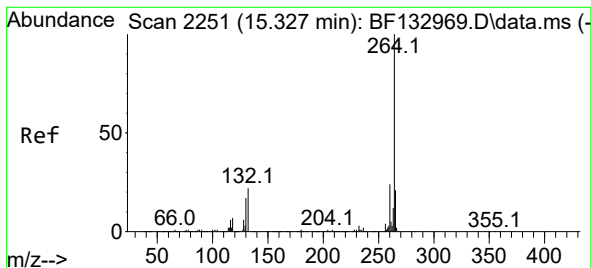
Tgt Ion:228 Resp: 813810
Ion Ratio Lower Upper
228 100
226 29.7 22.2 33.4
229 21.1 16.0 24.0



#83
Chrysene
Concen: 28.387 ng
RT: 13.904 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF133428.D
Acq: 17 May 2023 22:56

Tgt Ion:228 Resp: 763819
Ion Ratio Lower Upper
228 100
226 29.1 24.7 37.1
229 21.9 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.298 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10

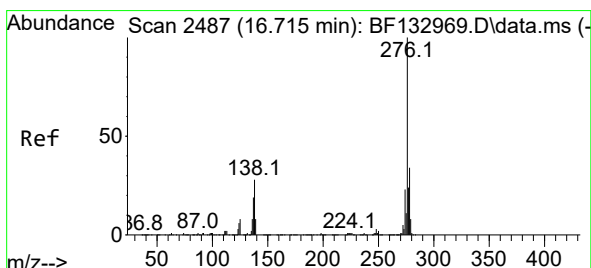
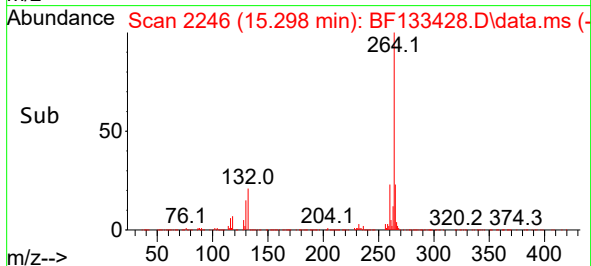
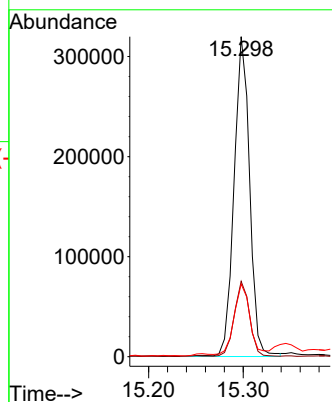
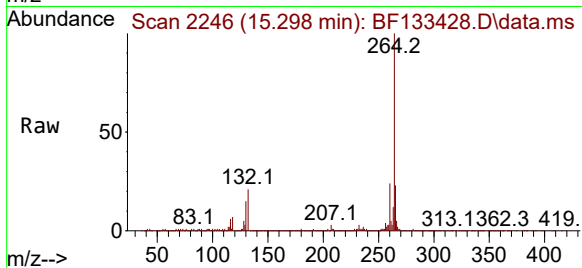
Tgt Ion:264 Resp: 364195

Ion Ratio Lower Upper

264 100

260 23.6 18.8 28.2

265 22.7 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.912 ng

RT: 16.527 min Scan# 2455

Delta R.T. -0.171 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

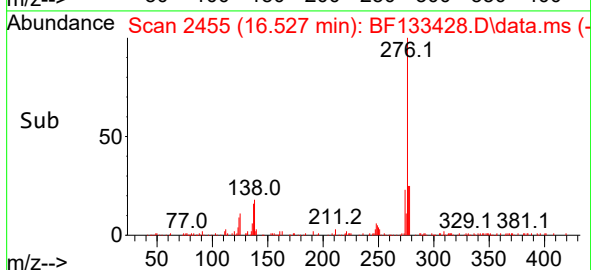
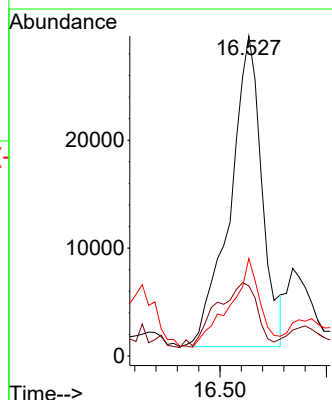
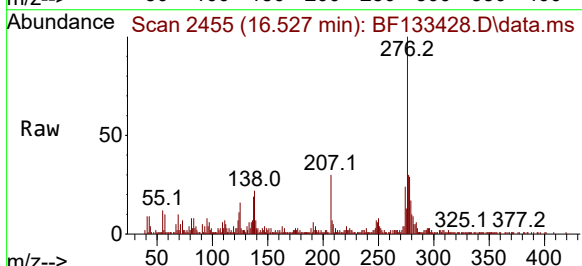
Tgt Ion:276 Resp: 60318

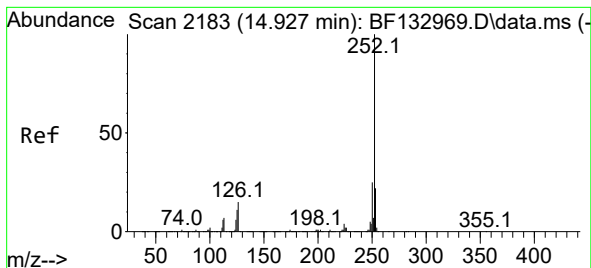
Ion Ratio Lower Upper

276 100

138 26.9 25.5 38.3

277 27.2 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 52.233 ng

RT: 14.898 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10

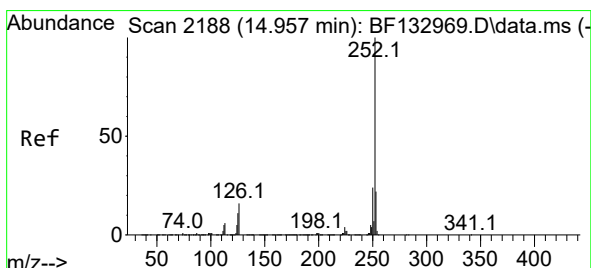
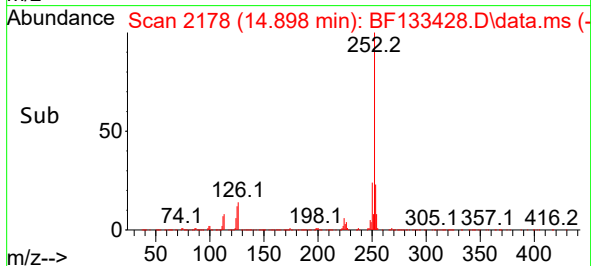
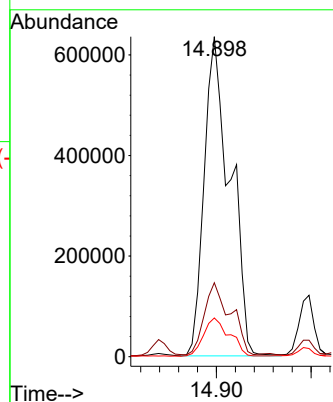
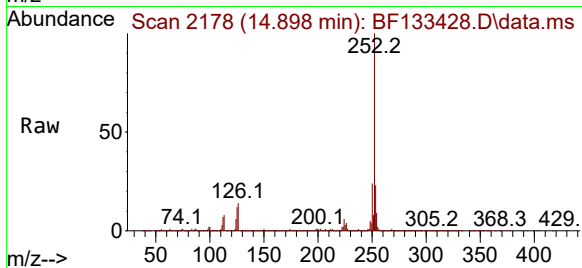
Tgt Ion:252 Resp: 1210215

Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 12.1 8.9 13.3



#89

Benzo(k)fluoranthene

Concen: 52.692 ng

RT: 14.898 min Scan# 2178

Delta R.T. -0.029 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

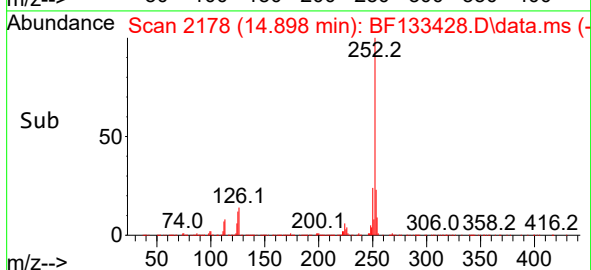
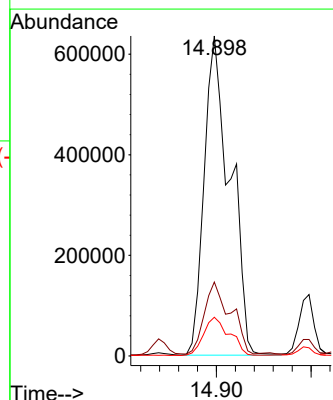
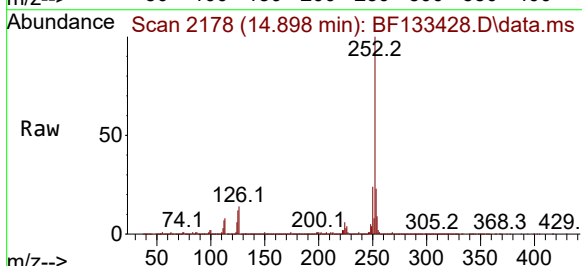
Tgt Ion:252 Resp: 1210215

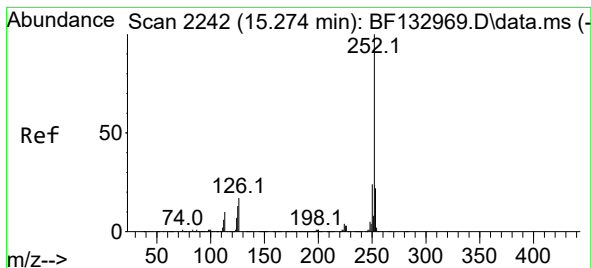
Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

125 12.1 9.0 13.4





#90

Benzo(a)pyrene

Concen: 30.296 ng

RT: 15.239 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

Instrument :

BNA_F

ClientSampleId :

WG-0516-B3-0-10

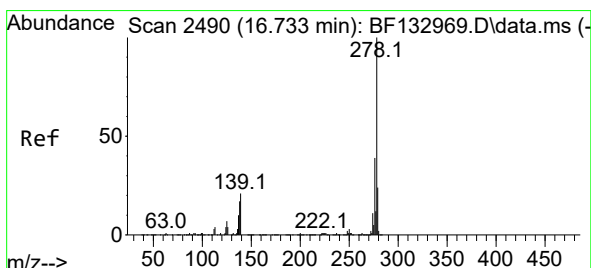
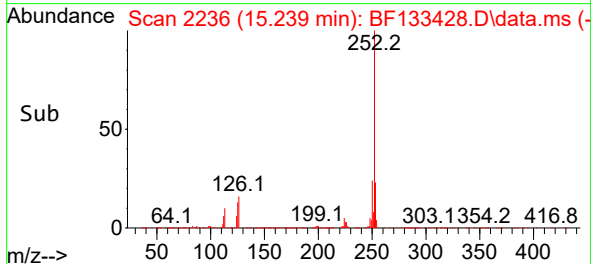
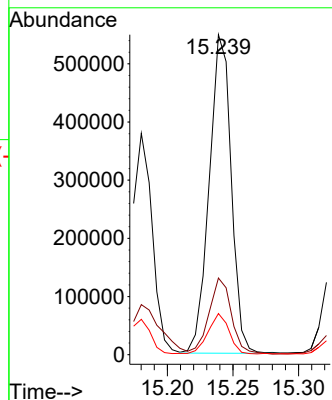
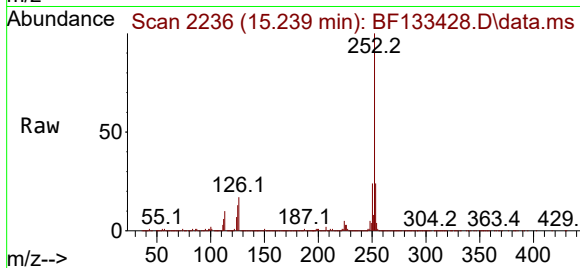
Tgt Ion:252 Resp: 638916

Ion Ratio Lower Upper

252 100

253 23.9 17.7 26.5

125 12.9 10.5 15.7



#91

Dibenzo(a,h)anthracene

Concen: 4.626 ng

RT: 16.686 min Scan# 2482

Delta R.T. -0.018 min

Lab File: BF133428.D

Acq: 17 May 2023 22:56

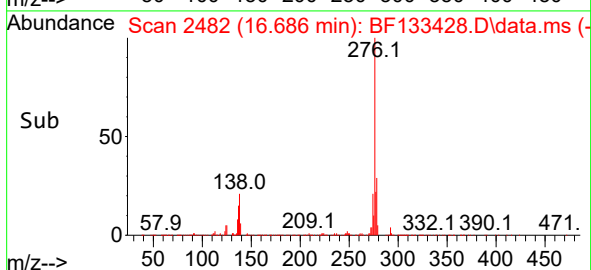
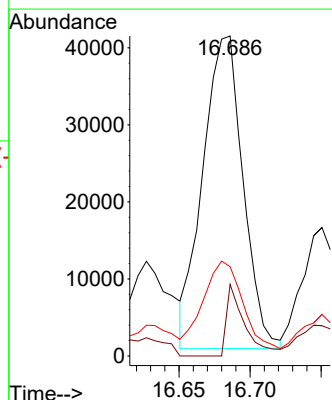
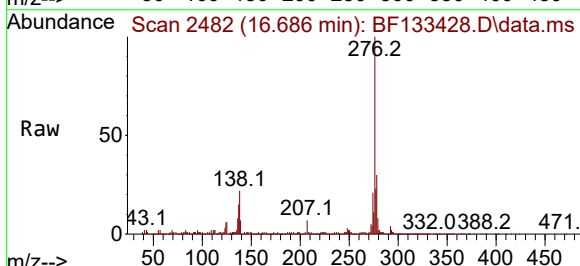
Tgt Ion:278 Resp: 79932

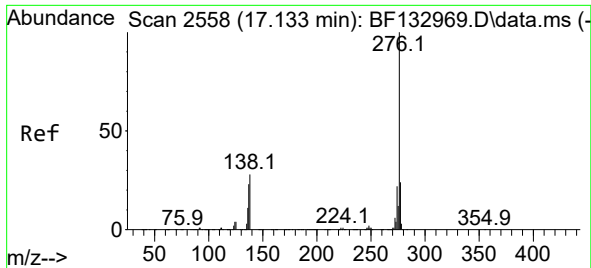
Ion Ratio Lower Upper

278 100

139 22.4 16.6 24.8

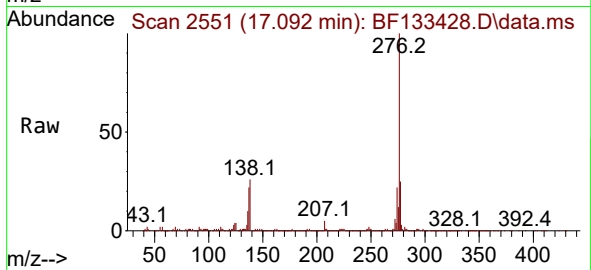
279 27.9 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 18.591 ng
 RT: 17.092 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BF133428.D
 Acq: 17 May 2023 22:56

Instrument :
 BNA_F
 ClientSampleId :
 WG-0516-B3-0-10



Tgt Ion:276 Resp: 317126
 Ion Ratio Lower Upper
 276 100
 277 24.5 19.4 29.0
 138 25.8 22.7 34.1

