

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061323\
 Data File : BF133727.D
 Acq On : 13 Jun 2023 13:10
 Operator : CG\JU
 Sample : 03103-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-8-060823

Quant Time: Jun 13 13:37:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 13 11:26:55 2023
 Response via : Initial Calibration

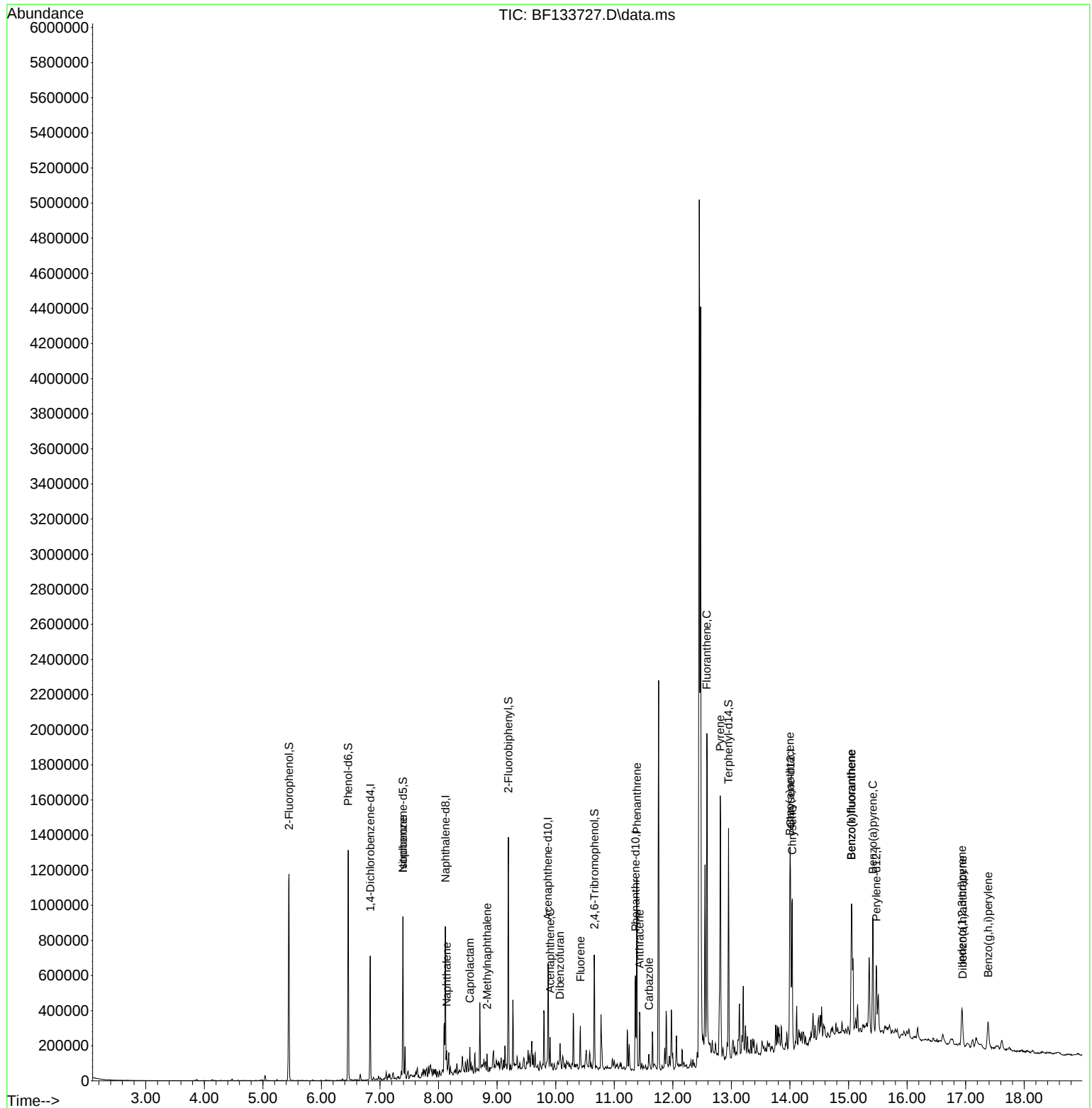
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.833	152	91885	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	297570	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	117094	20.000	ng	-0.01
64) Phenanthrene-d10	11.363	188	201698	20.000	ng	0.00
76) Chrysene-d12	14.009	240	198609	20.000	ng	0.00
86) Perylene-d12	15.474	264	177826	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	302046	57.227	ng	0.00
7) Phenol-d6	6.457	99	338250	49.234	ng	-0.01
23) Nitrobenzene-d5	7.392	82	230856	42.256	ng	-0.01
42) 2,4,6-Tribromophenol	10.663	330	67187	45.329	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	365998	44.432	ng	0.00
79) Terphenyl-d14	12.951	244	384157	29.929	ng	0.00
Target Compounds						
25) Isophorone	7.392	82	230856	23.016	ng	# 65
31) Naphthalene	8.139	128	41702	2.876	ng	100
35) Caprolactam	8.533	113	2810	2.002	ng	# 1
37) 2-Methylnaphthalene	8.827	142	21610	2.145	ng	99
52) Acenaphthene	9.904	154	28685	4.156	ng	96
55) Dibenzofuran	10.074	168	39870	3.786	ng	96
58) Fluorene	10.422	166	58923	7.317	ng	96
71) Phenanthrene	11.386	178	349364	34.140	ng	100
72) Anthracene	11.433	178	118422	11.099	ng	100
73) Carbazole	11.592	167	32764	3.297	ng	97
75) Fluoranthene	12.580	202	699813	64.399	ng	98
78) Pyrene	12.810	202	653752	35.336	ng	98
81) Benzo(a)anthracene	13.998	228	384920	28.019	ng	98
83) Chrysene	14.039	228	348792	26.843	ng	98
87) Indeno(1,2,3-cd)pyrene	16.939	276	148609	12.147	ng	94
88) Benzo(b)fluoranthene	15.051	252	585580	54.209	ng	99
89) Benzo(k)fluoranthene	15.051	252	585580	55.650	ng	99
90) Benzo(a)pyrene	15.415	252	302725	30.196	ng	99
91) Dibenzo(a,h)anthracene	16.950	278	35171	3.473	ng	# 85
92) Benzo(g,h,i)perylene	17.386	276	130964	13.042	ng	98

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

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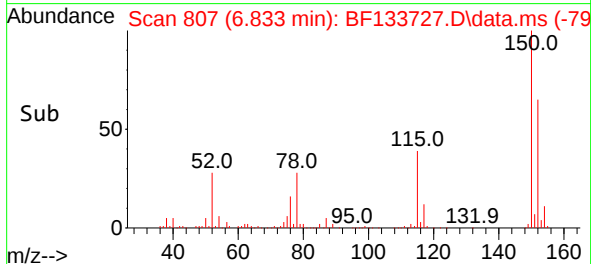
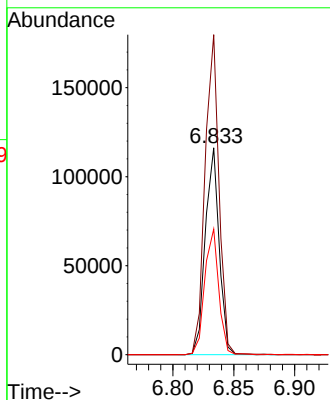
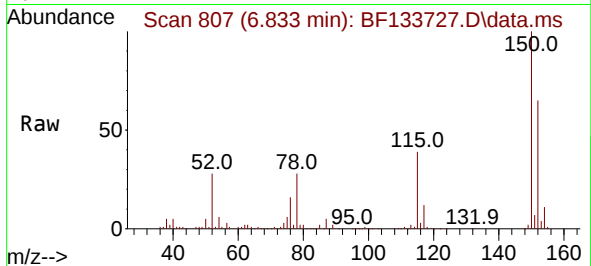




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.833 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

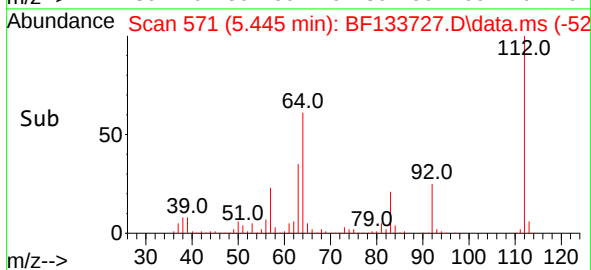
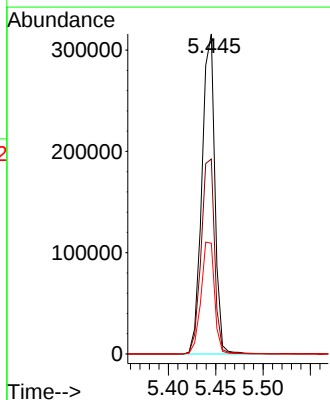
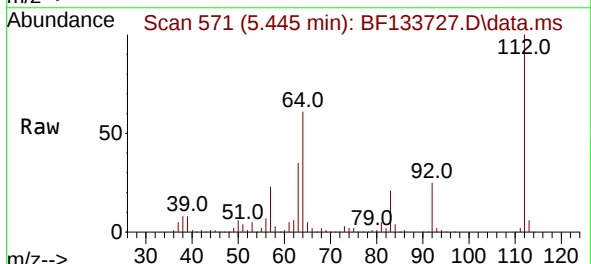
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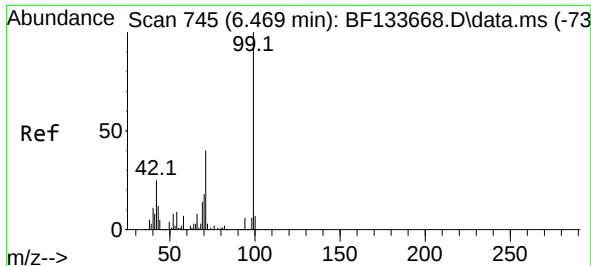
Tgt Ion:152 Resp: 91885
Ion Ratio Lower Upper
152 100
150 154.7 124.3 186.5
115 60.7 48.5 72.7



#5
2-Fluorophenol
Concen: 57.227 ng
RT: 5.445 min Scan# 571
Delta R.T. -0.000 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

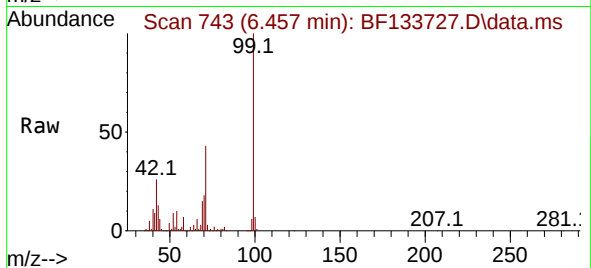
Tgt Ion:112 Resp: 302046
Ion Ratio Lower Upper
112 100
64 60.9 49.0 73.4
63 34.6 26.8 40.2



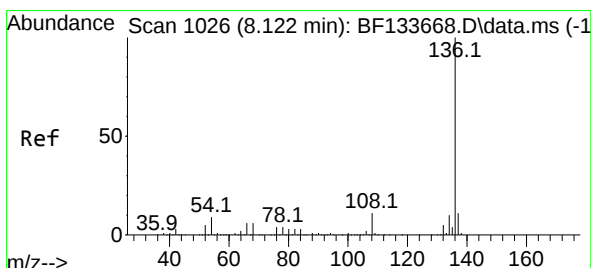
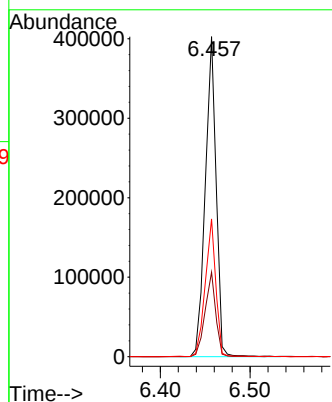
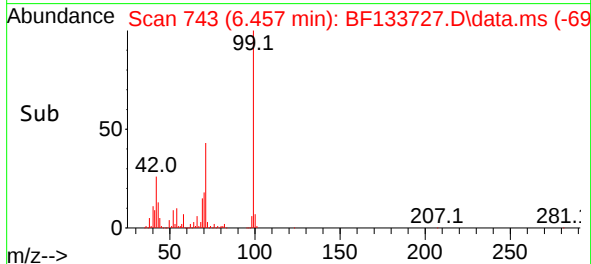


#7
Phenol-d6
Concen: 49.234 ng
RT: 6.457 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

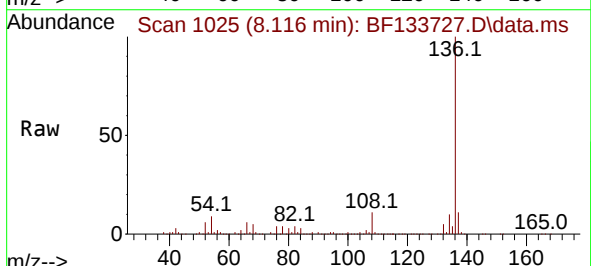
Instrument :
BNA_F
ClientSampleId :
NB-8-060823



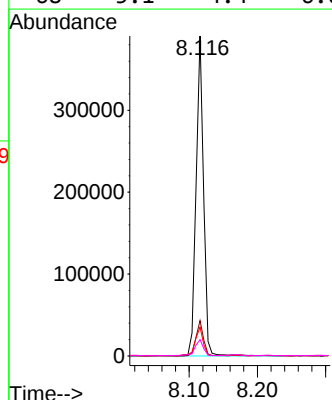
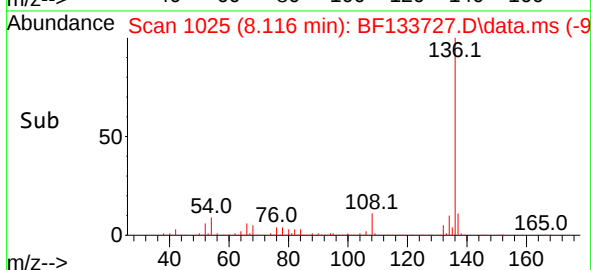
Tgt Ion: 99 Resp: 338250
Ion Ratio Lower Upper
99 100
42 26.4 19.9 29.9
71 43.0 32.2 48.4

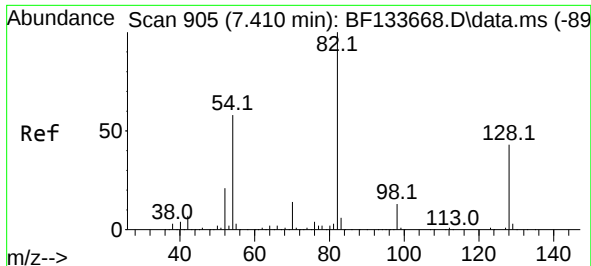


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10



Tgt Ion: 136 Resp: 297570
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 9.0 7.4 11.0
68 5.1 4.4 6.6





#23

Nitrobenzene-d5

Concen: 42.256 ng

RT: 7.392 min Scan# 902

Delta R.T. -0.012 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

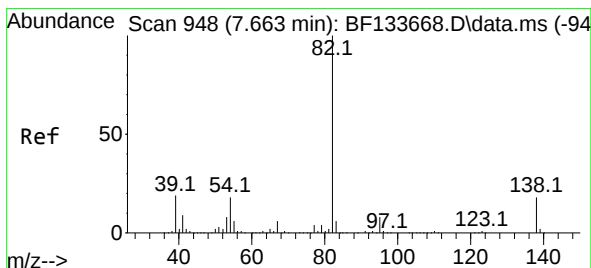
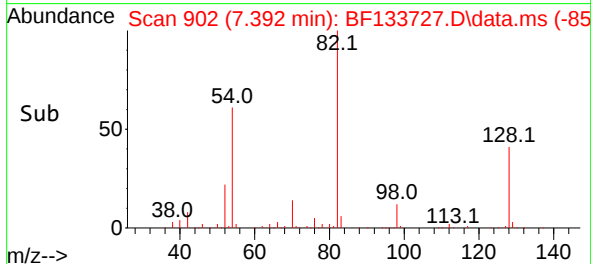
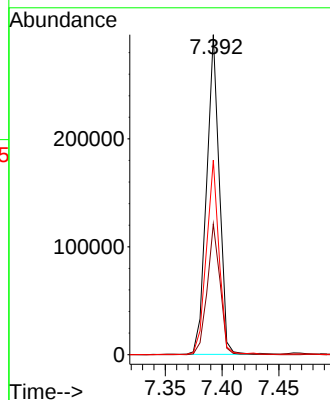
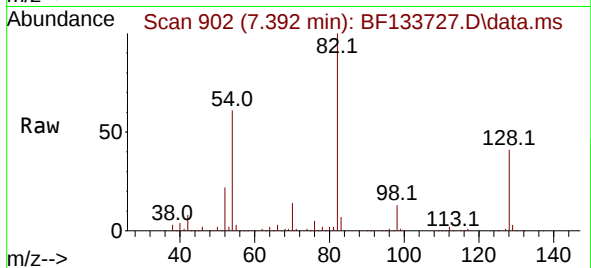
Tgt Ion: 82 Resp: 230856

Ion Ratio Lower Upper

82 100

128 40.9 34.2 51.2

54 60.8 46.5 69.7



#25

Isophorone

Concen: 23.016 ng

RT: 7.392 min Scan# 902

Delta R.T. -0.265 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

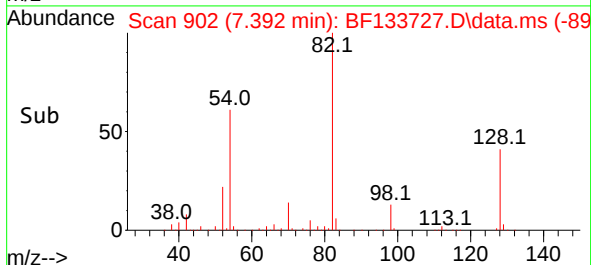
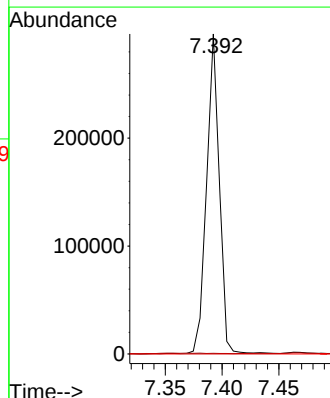
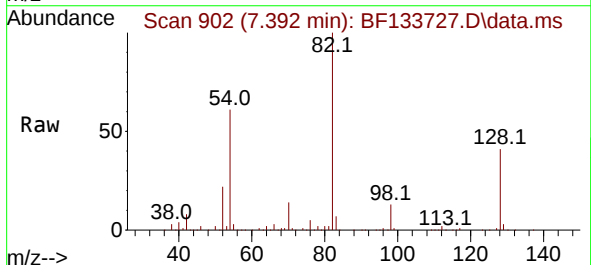
Tgt Ion: 82 Resp: 230856

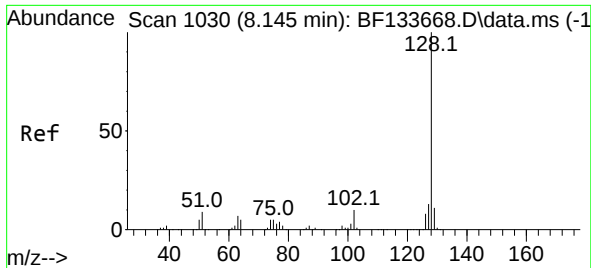
Ion Ratio Lower Upper

82 100

95 0.2 6.0 9.0#

138 0.0 14.2 21.2#

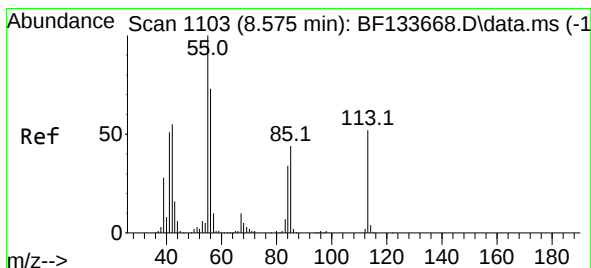
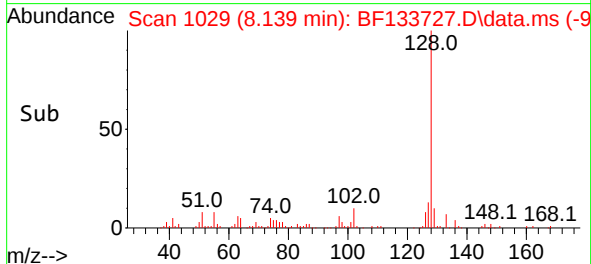
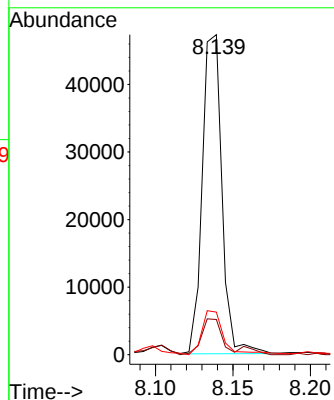
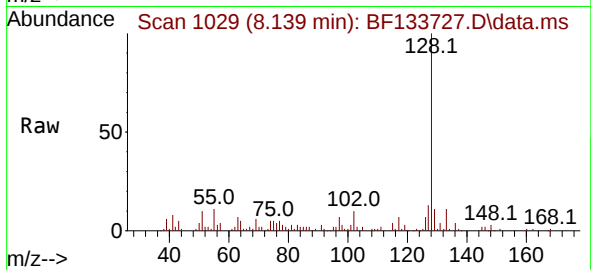




#31
Naphthalene
Concen: 2.876 ng
RT: 8.139 min Scan# 1096
Delta R.T. -0.006 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

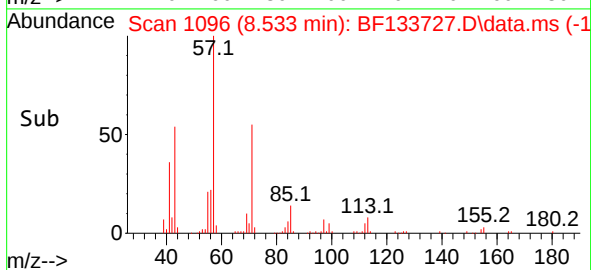
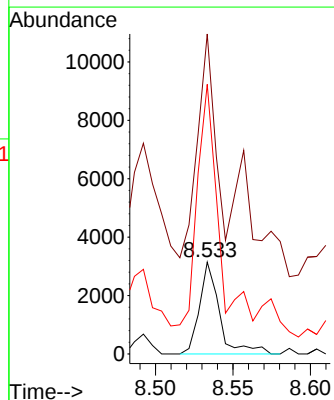
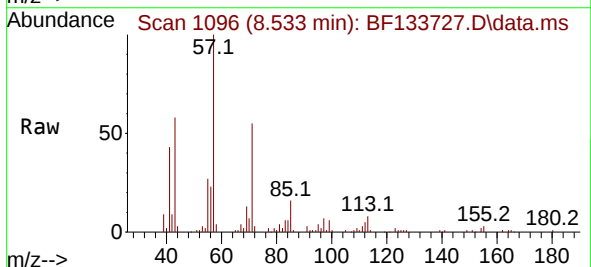
Instrument :
BNA_F
ClientSampleId :
NB-8-060823

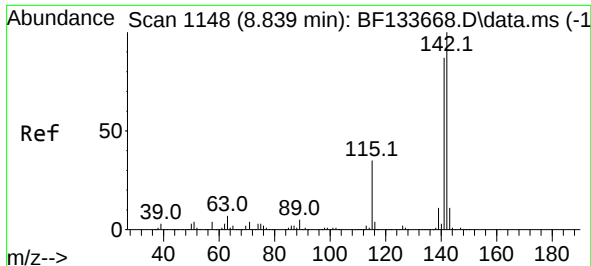
Tgt Ion:128 Resp: 41702
Ion Ratio Lower Upper
128 100
129 11.0 8.9 13.3
127 13.3 10.5 15.7



#35
Caprolactam
Concen: 2.002 ng
RT: 8.533 min Scan# 1096
Delta R.T. -0.035 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

Tgt Ion:113 Resp: 2810
Ion Ratio Lower Upper
113 100
55 348.7 173.3 213.3#
56 293.8 120.5 160.5#





#37

2-Methylnaphthalene

Concen: 2.145 ng

RT: 8.827 min Scan# 1146

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

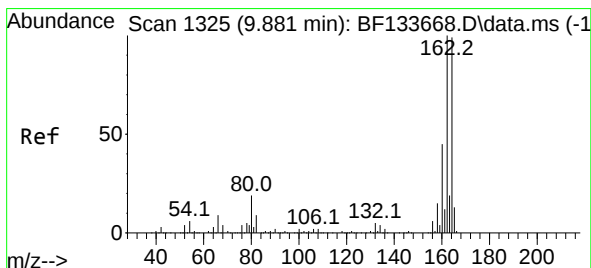
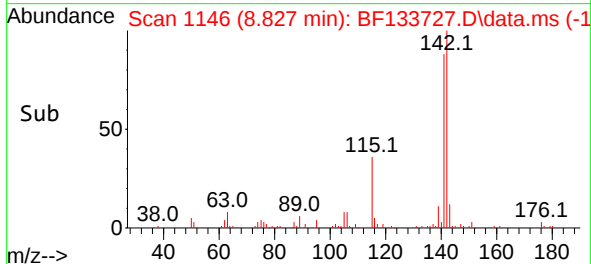
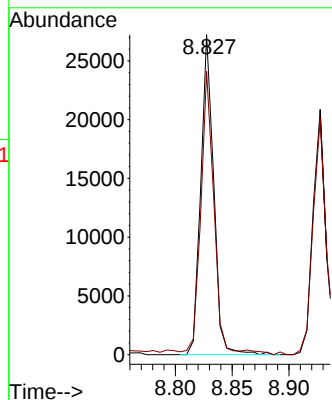
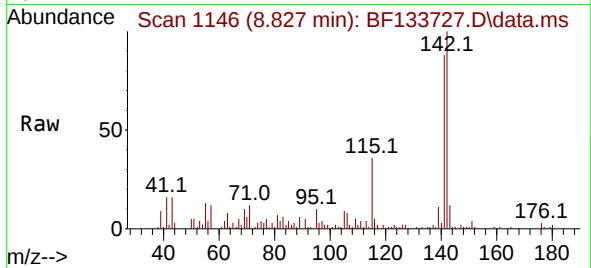
NB-8-060823

Tgt Ion:142 Resp: 21610

Ion Ratio Lower Upper

142 100

141 88.5 69.8 104.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.869 min Scan# 1323

Delta R.T. -0.012 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

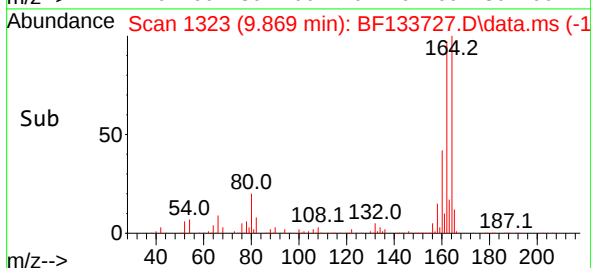
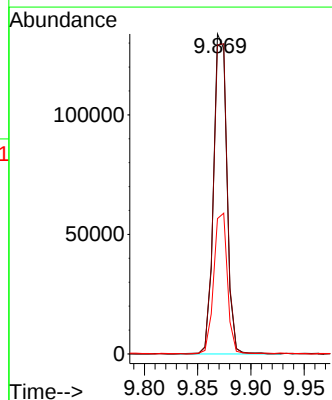
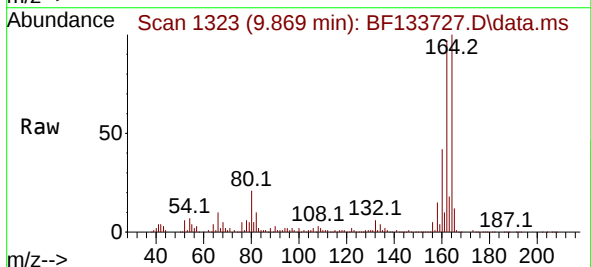
Tgt Ion:164 Resp: 117094

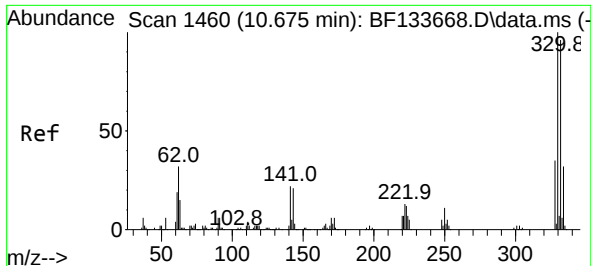
Ion Ratio Lower Upper

164 100

162 96.6 80.8 121.2

160 42.3 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 45.329 ng

RT: 10.663 min Scan# 1458

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

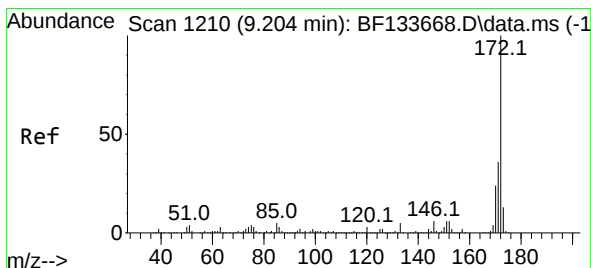
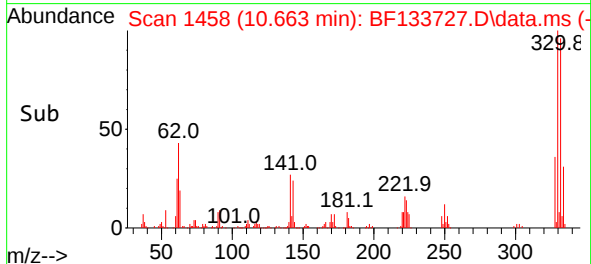
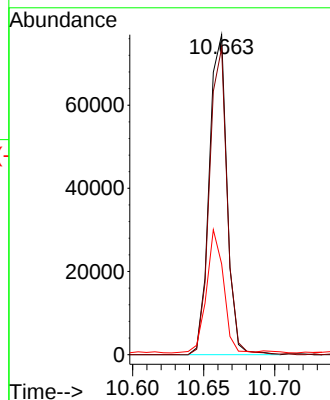
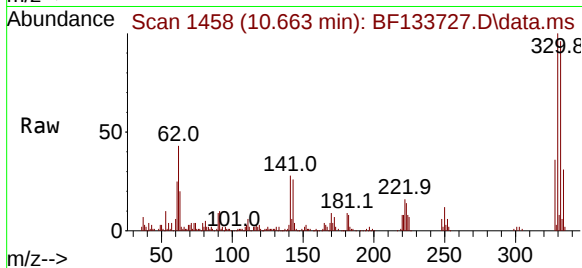
Tgt Ion:330 Resp: 67187

Ion Ratio Lower Upper

330 100

332 95.7 77.2 115.8

141 36.9 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 44.432 ng

RT: 9.192 min Scan# 1208

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

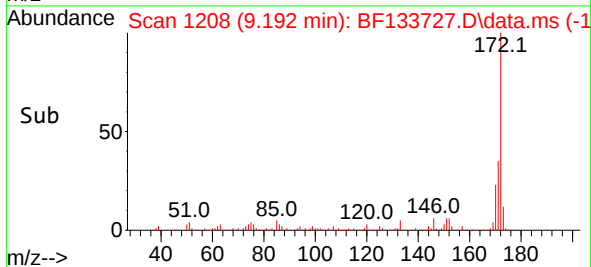
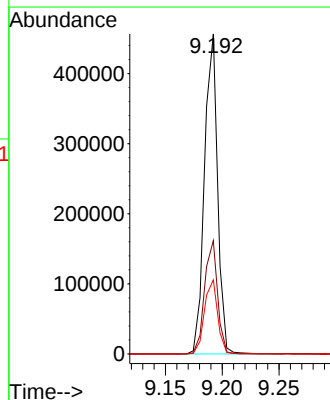
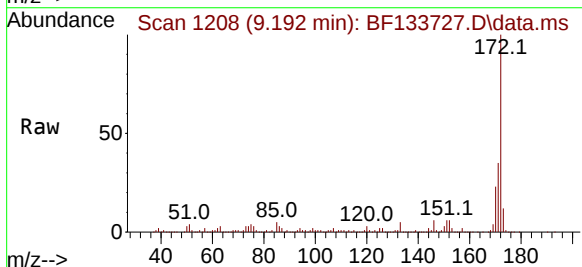
Tgt Ion:172 Resp: 365998

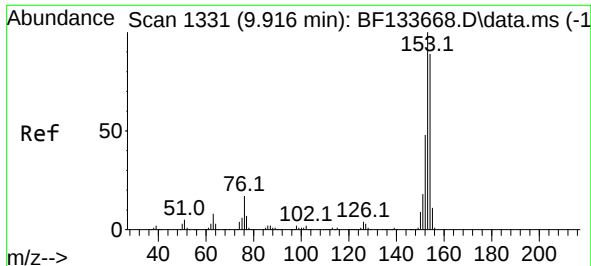
Ion Ratio Lower Upper

172 100

171 35.4 28.6 43.0

170 23.2 19.1 28.7

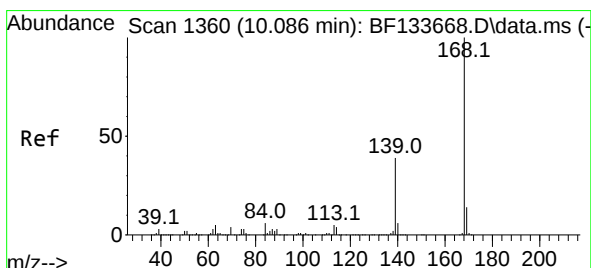
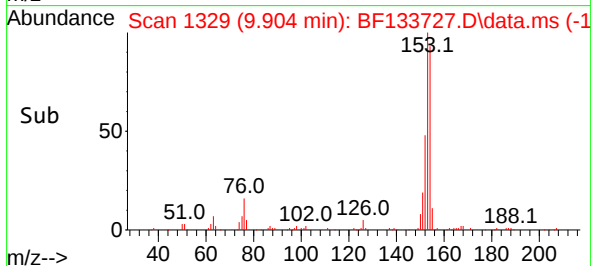
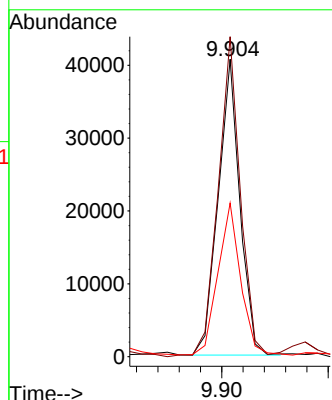
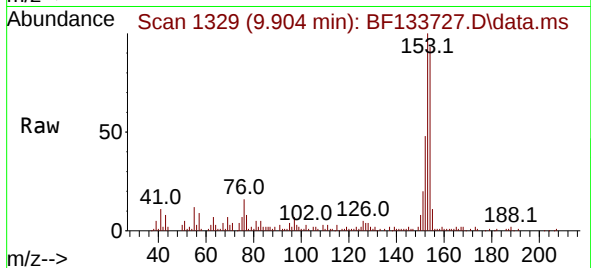




#52
Acenaphthene
Concen: 4.156 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

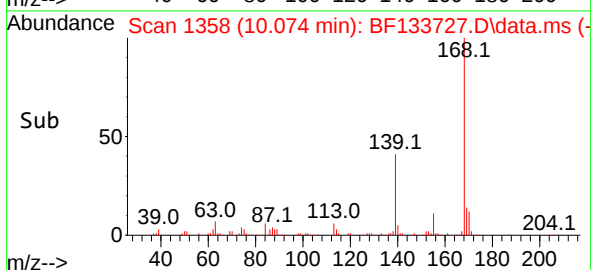
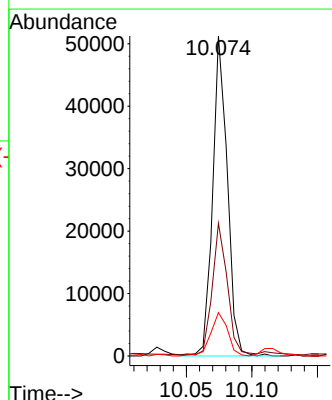
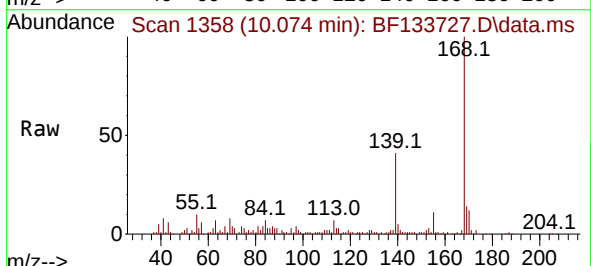
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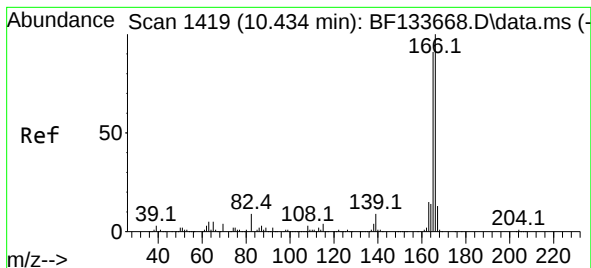
Tgt Ion:154 Resp: 28685
Ion Ratio Lower Upper
154 100
153 107.6 89.8 134.8
152 51.7 43.4 65.2



#55
Dibenzofuran
Concen: 3.786 ng
RT: 10.074 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

Tgt Ion:168 Resp: 39870
Ion Ratio Lower Upper
168 100
139 41.5 30.9 46.3
169 13.6 10.9 16.3





#58

Fluorene

Concen: 7.317 ng

RT: 10.422 min Scan# 1419

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

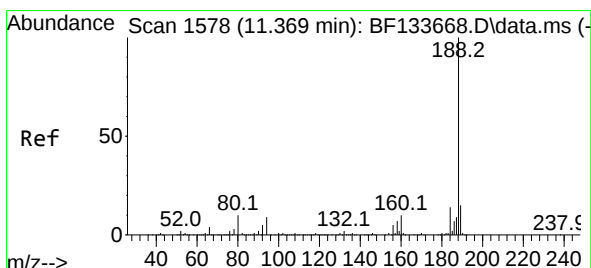
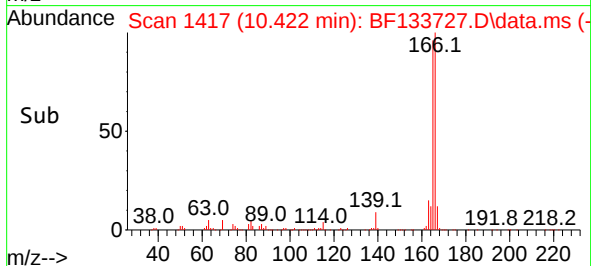
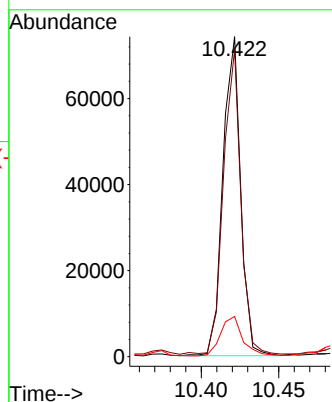
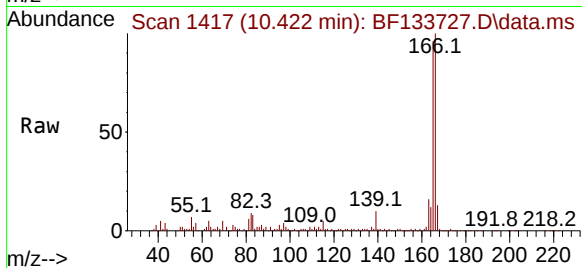
Tgt Ion:166 Resp: 58923

Ion Ratio Lower Upper

166 100

165 96.1 73.1 109.7

167 12.5 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.363 min Scan# 1577

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

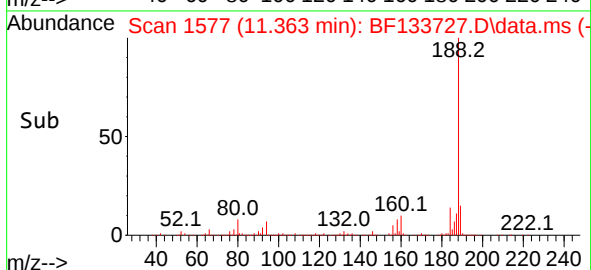
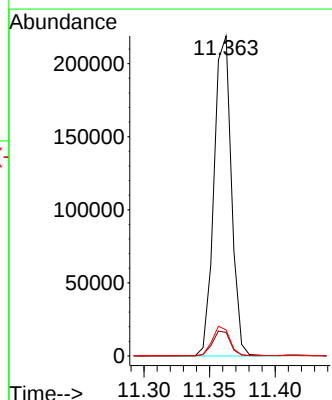
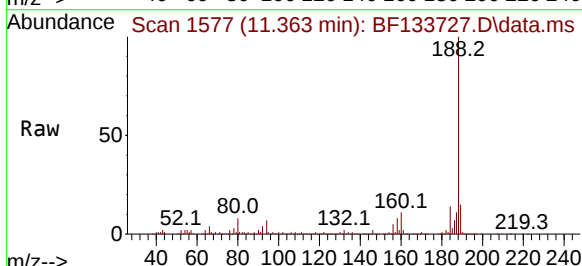
Tgt Ion:188 Resp: 201698

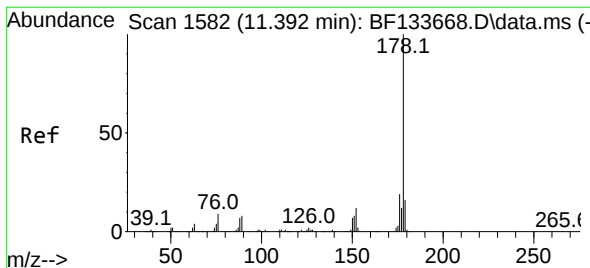
Ion Ratio Lower Upper

188 100

94 7.3 6.8 10.2

80 8.1 7.8 11.6





#71

Phenanthrene

Concen: 34.140 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

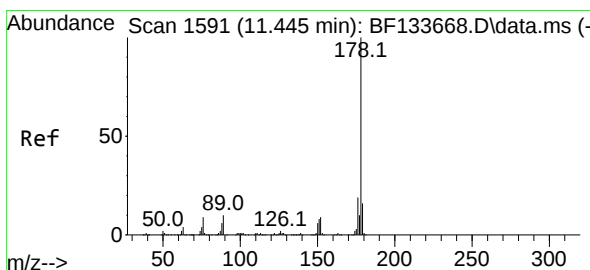
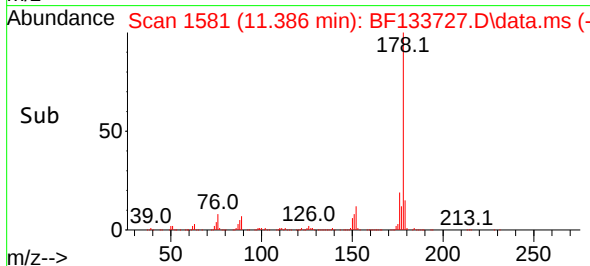
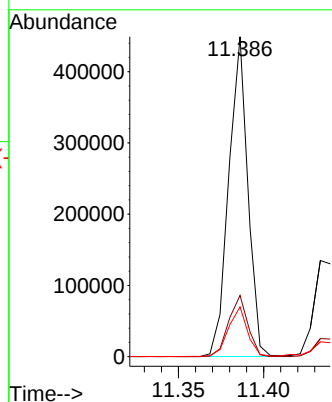
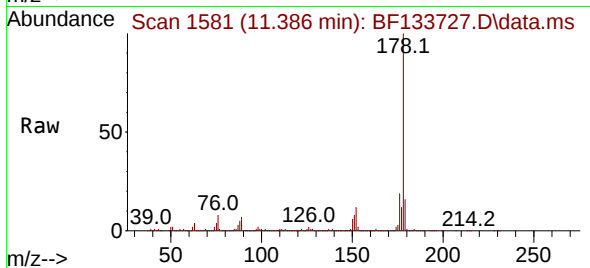
Tgt Ion:178 Resp: 349364

Ion Ratio Lower Upper

178 100

176 19.1 15.6 23.4

179 15.6 12.4 18.6



#72

Anthracene

Concen: 11.099 ng

RT: 11.433 min Scan# 1589

Delta R.T. -0.012 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

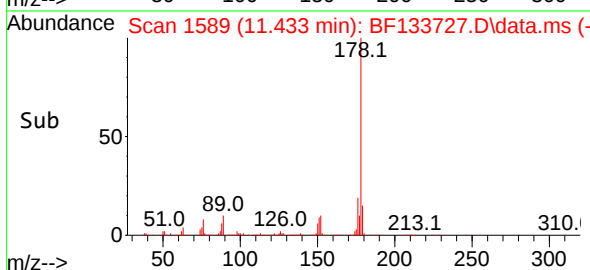
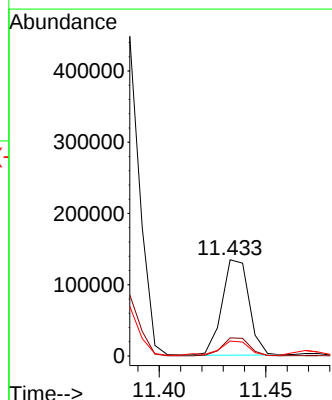
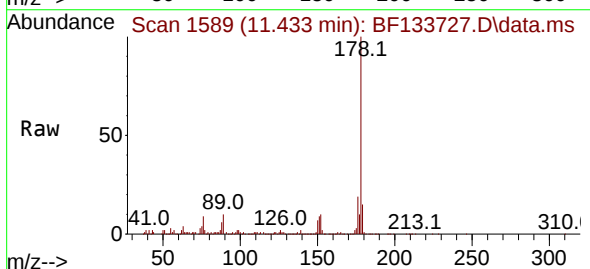
Tgt Ion:178 Resp: 118422

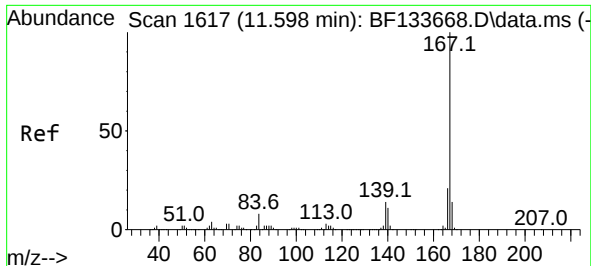
Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

179 15.5 12.6 18.8

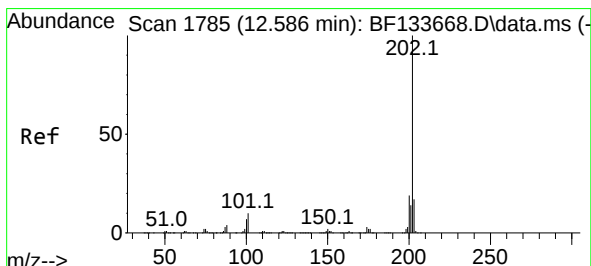
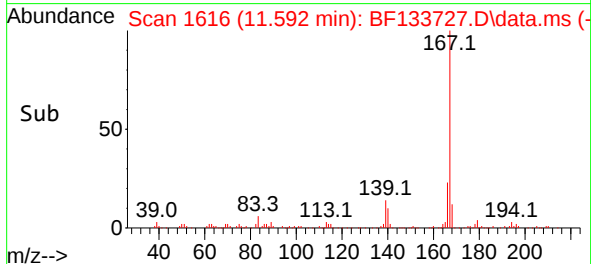
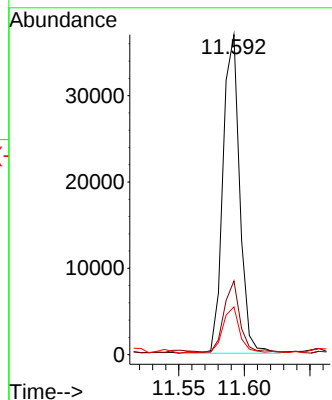
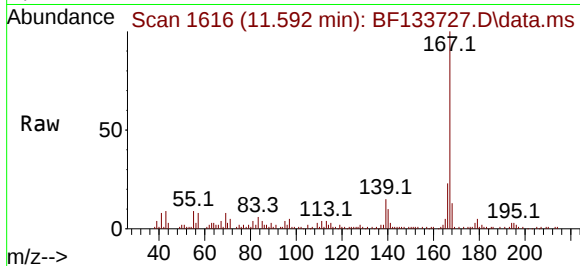




#73
 Carbazole
 Concen: 3.297 ng
 RT: 11.592 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: BF133727.D
 Acq: 13 Jun 2023 13:10

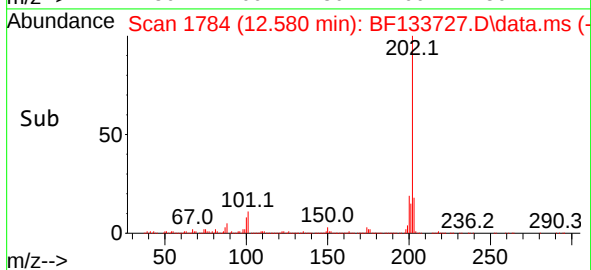
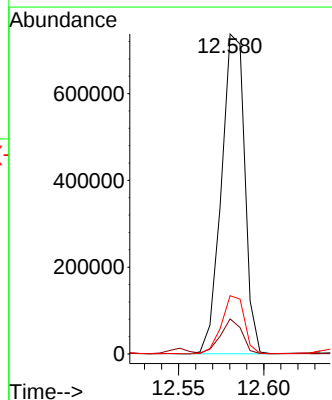
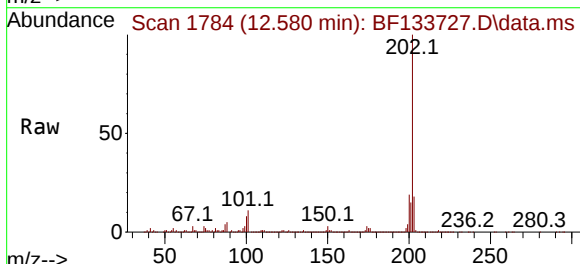
Instrument :
 BNA_F
 ClientSampleId :
 NB-8-060823

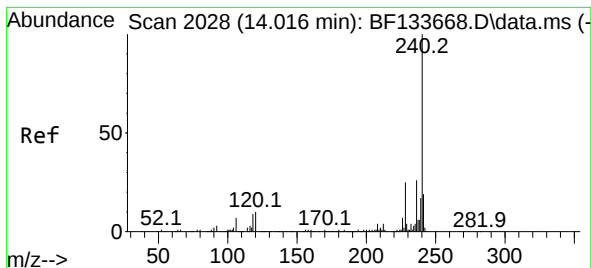
Tgt Ion:167 Resp: 32764
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.0 25.6
 139 14.9 11.2 16.8



#75
 Fluoranthene
 Concen: 64.399 ng
 RT: 12.580 min Scan# 1784
 Delta R.T. -0.006 min
 Lab File: BF133727.D
 Acq: 13 Jun 2023 13:10

Tgt Ion:202 Resp: 699813
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 29.6
 203 18.2 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.009 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

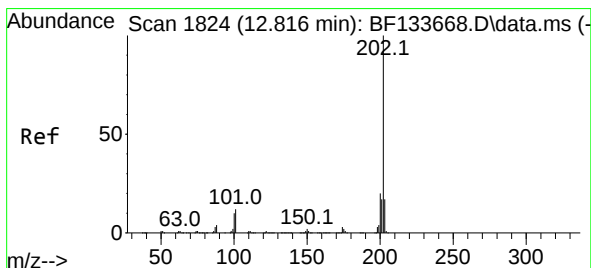
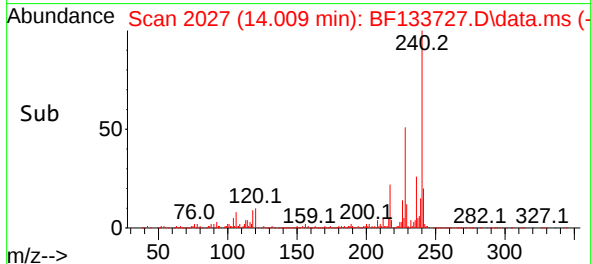
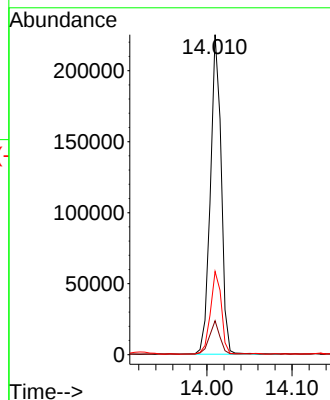
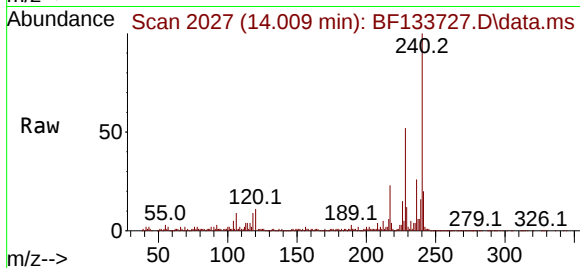
Tgt Ion:240 Resp: 198609

Ion Ratio Lower Upper

240 100

120 10.6 8.1 12.1

236 26.0 20.5 30.7



#78

Pyrene

Concen: 35.336 ng

RT: 12.810 min Scan# 1823

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

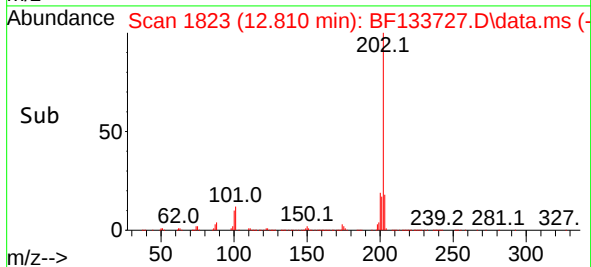
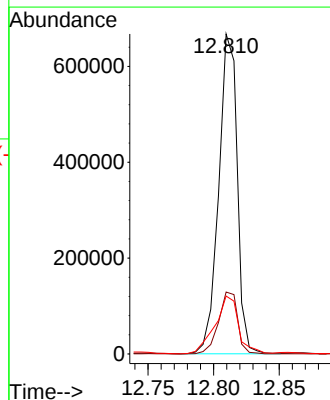
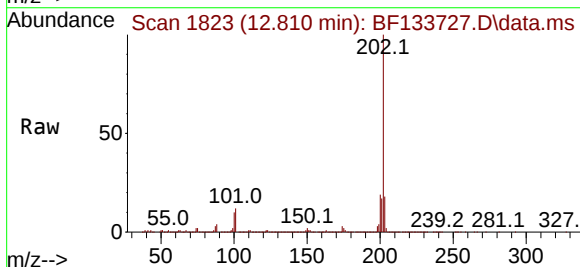
Tgt Ion:202 Resp: 653752

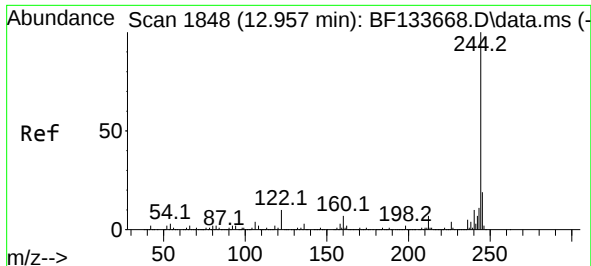
Ion Ratio Lower Upper

202 100

200 19.4 16.2 24.2

203 18.1 13.9 20.9

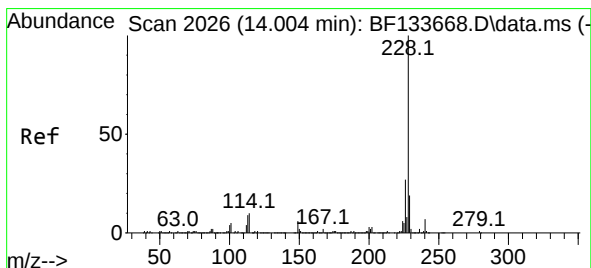
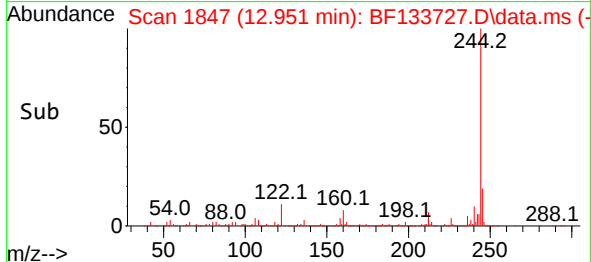
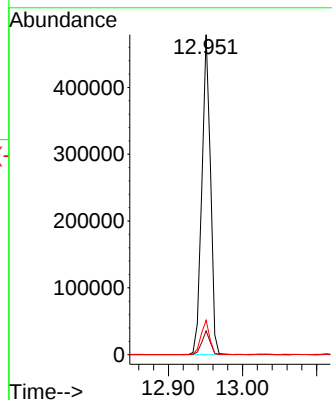
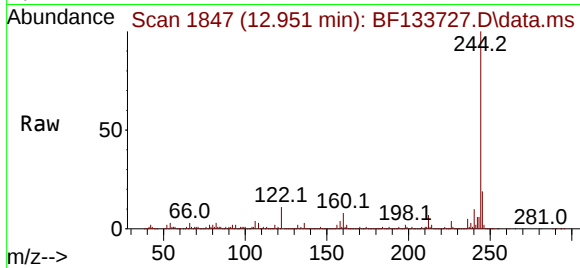




#79
 Terphenyl-d14
 Concen: 29.929 ng
 RT: 12.951 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF133727.D
 Acq: 13 Jun 2023 13:10

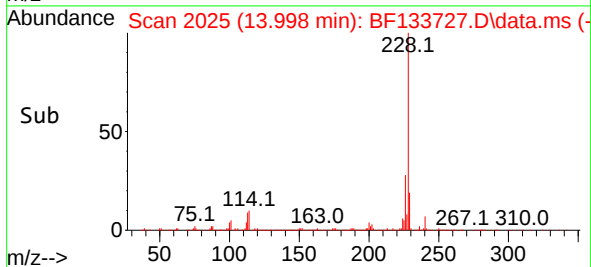
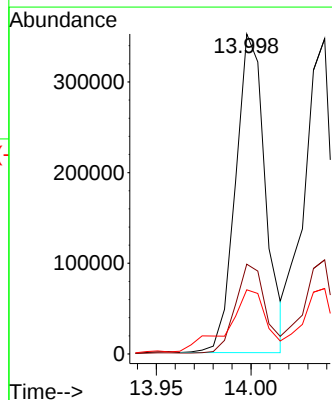
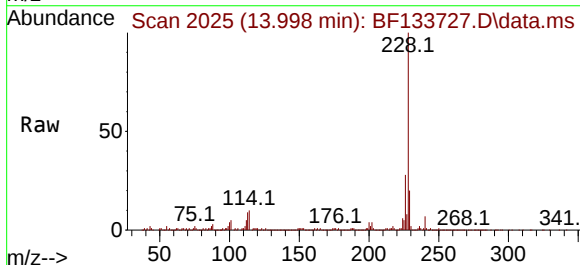
Instrument :
 BNA_F
 ClientSampleId :
 NB-8-060823

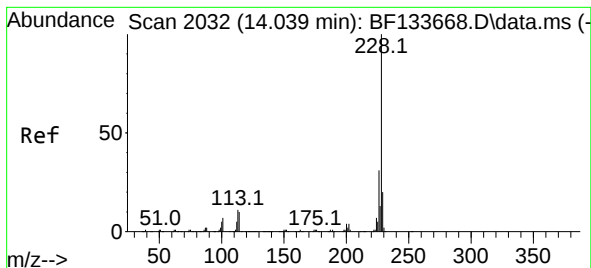
Tgt Ion:244 Resp: 384157
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.4 8.2
 122 10.7 8.1 12.1



#81
 Benzo(a)anthracene
 Concen: 28.019 ng
 RT: 13.998 min Scan# 2025
 Delta R.T. -0.006 min
 Lab File: BF133727.D
 Acq: 13 Jun 2023 13:10

Tgt Ion:228 Resp: 384920
 Ion Ratio Lower Upper
 228 100
 226 28.0 21.7 32.5
 229 20.0 15.4 23.2





#83

Chrysene

Concen: 26.843 ng

RT: 14.039 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

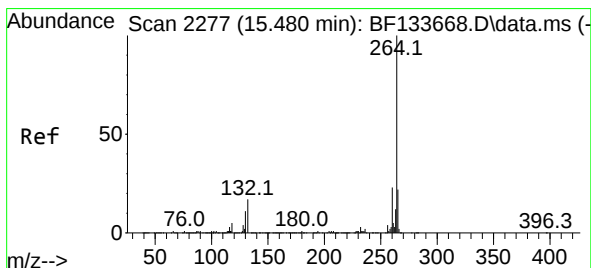
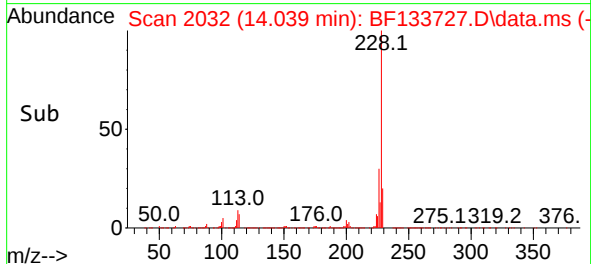
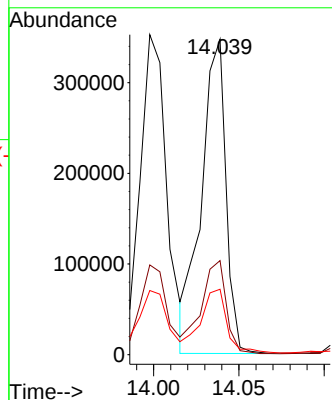
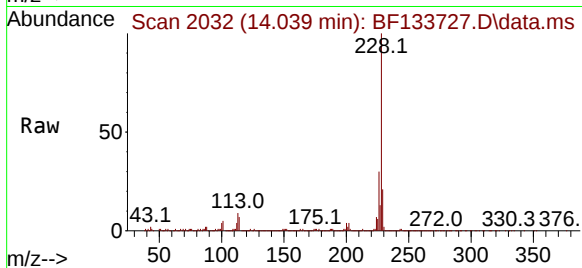
Tgt Ion:228 Resp: 348792

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

229 20.8 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.474 min Scan# 2276

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

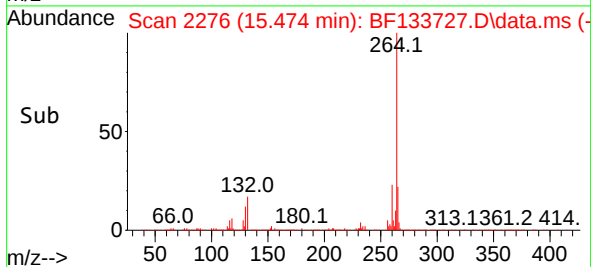
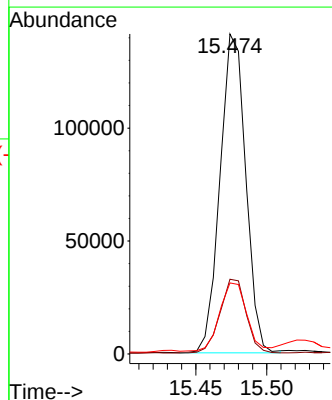
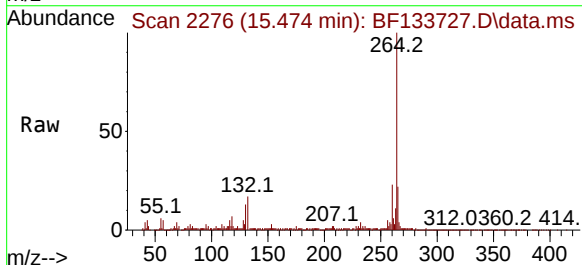
Tgt Ion:264 Resp: 177826

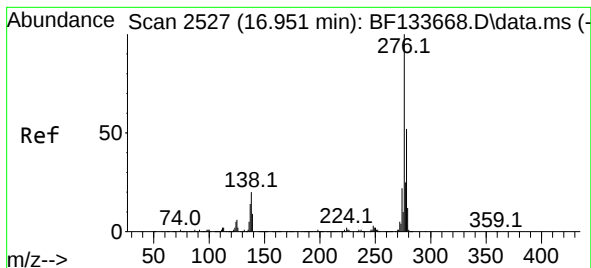
Ion Ratio Lower Upper

264 100

260 23.3 18.2 27.2

265 22.2 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.147 ng

RT: 16.939 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

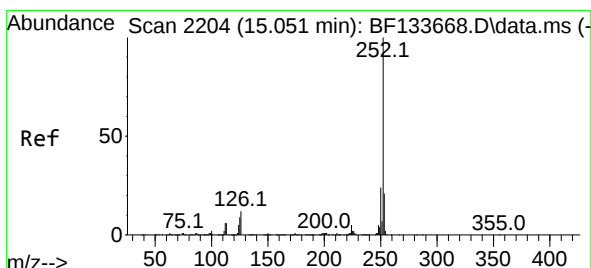
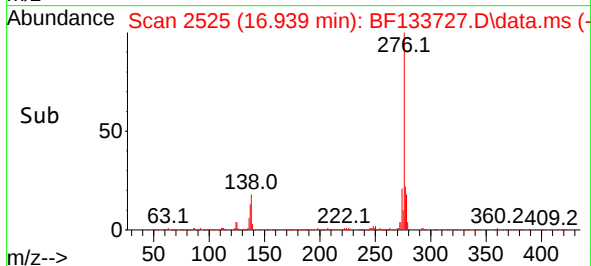
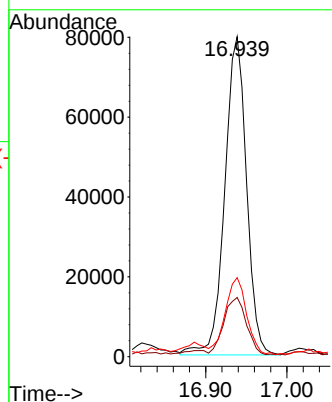
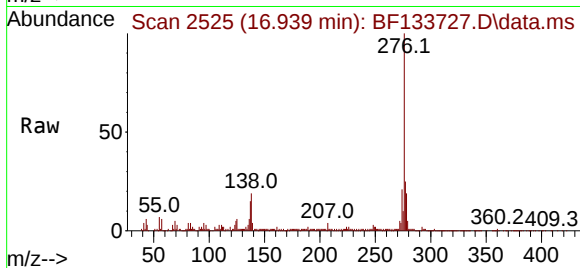
Tgt Ion:276 Resp: 148609

Ion Ratio Lower Upper

276 100

138 18.3 17.9 26.9

277 23.9 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 54.209 ng

RT: 15.051 min Scan# 2204

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

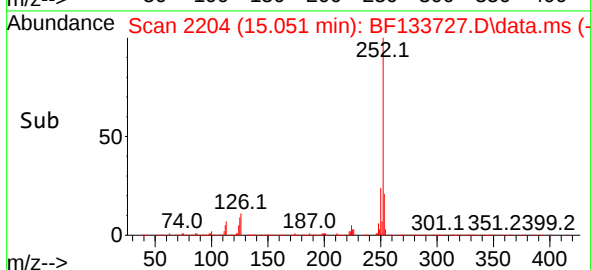
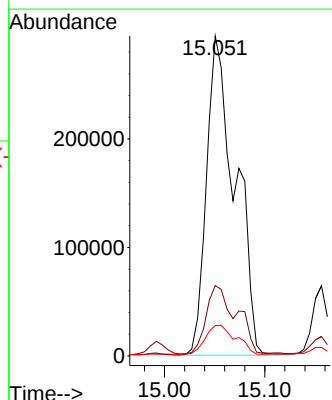
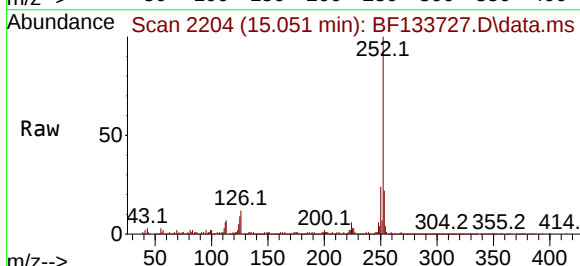
Tgt Ion:252 Resp: 585580

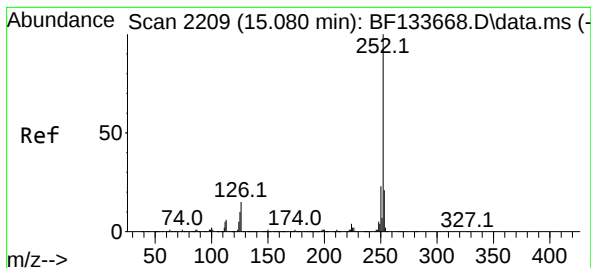
Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

125 9.5 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 55.650 ng

RT: 15.051 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

Instrument :

BNA_F

ClientSampleId :

NB-8-060823

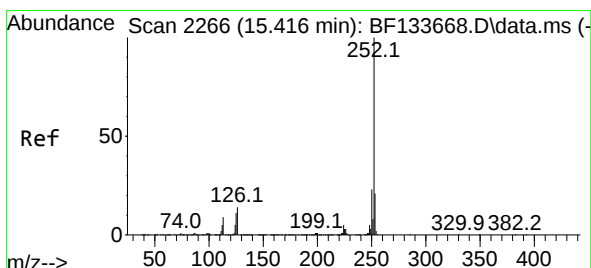
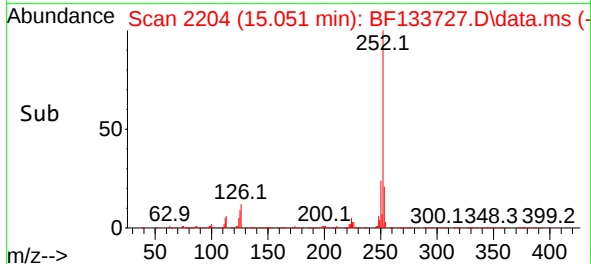
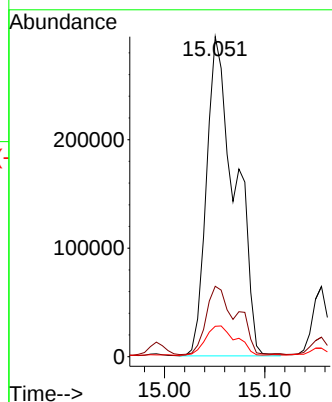
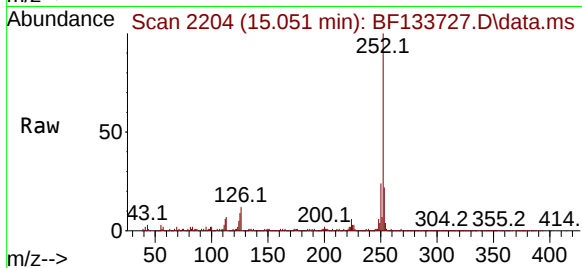
Tgt Ion:252 Resp: 585580

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.4

125 9.5 7.8 11.6



#90

Benzo(a)pyrene

Concen: 30.196 ng

RT: 15.415 min Scan# 2266

Delta R.T. -0.006 min

Lab File: BF133727.D

Acq: 13 Jun 2023 13:10

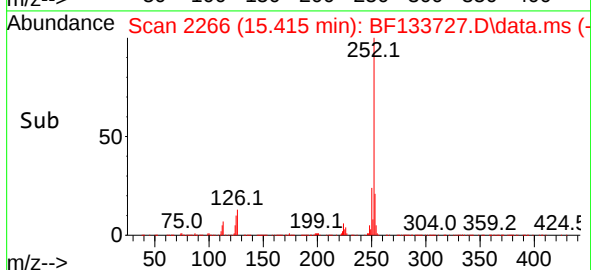
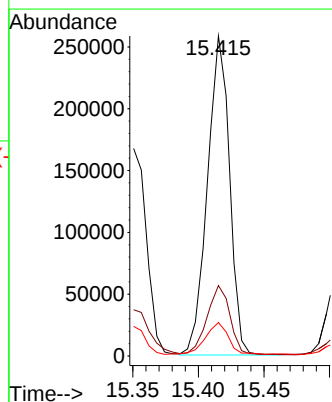
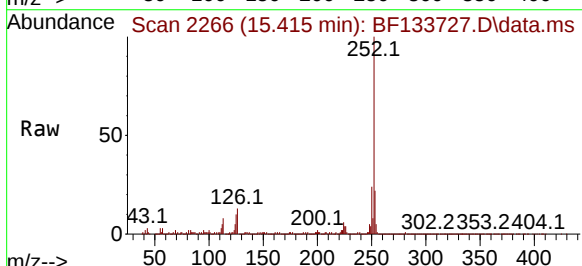
Tgt Ion:252 Resp: 302725

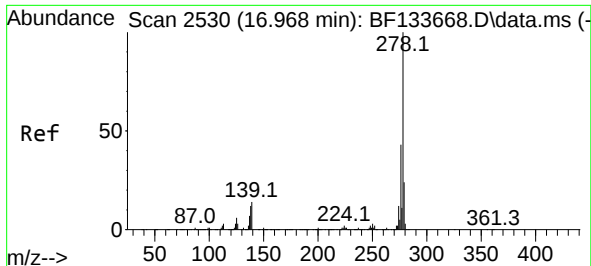
Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

125 10.5 8.6 13.0

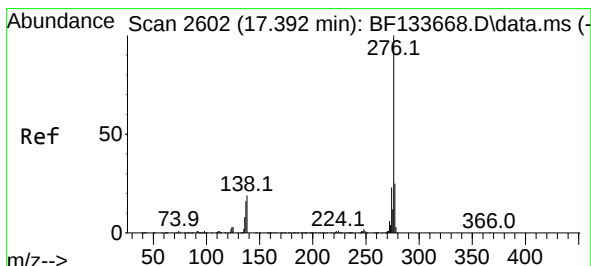
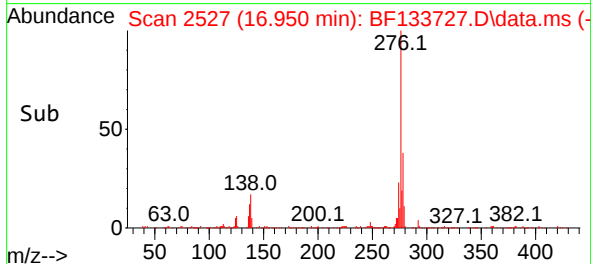
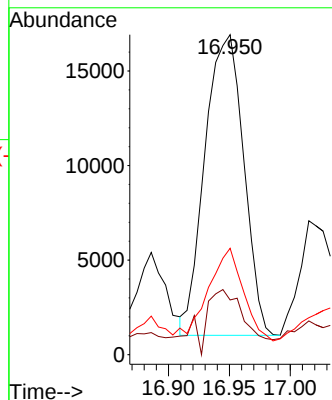
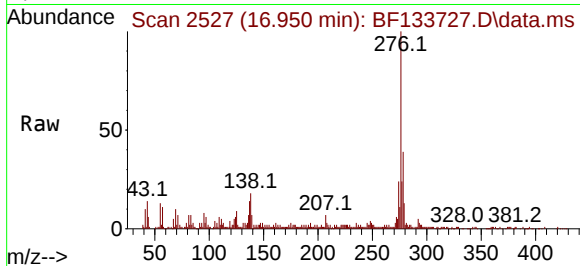




#91
Dibenzo(a,h)anthracene
Concen: 3.473 ng
RT: 16.950 min Scan# 2530
Delta R.T. -0.024 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

Instrument :
BNA_F
ClientSampleId :
NB-8-060823

Tgt Ion:278 Resp: 35171
Ion Ratio Lower Upper
278 100
139 17.1 11.4 17.2
279 33.3 19.0 28.4#



#92
Benzo(g,h,i)perylene
Concen: 13.042 ng
RT: 17.386 min Scan# 2601
Delta R.T. -0.018 min
Lab File: BF133727.D
Acq: 13 Jun 2023 13:10

Tgt Ion:276 Resp: 130964
Ion Ratio Lower Upper
276 100
277 23.0 19.8 29.8
138 19.1 15.0 22.4

