

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080823\
 Data File : BF134673.D
 Acq On : 08 Aug 2023 15:55
 Operator : CG\JU
 Sample : 03815-03DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01DL

Quant Time: Aug 09 02:18:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

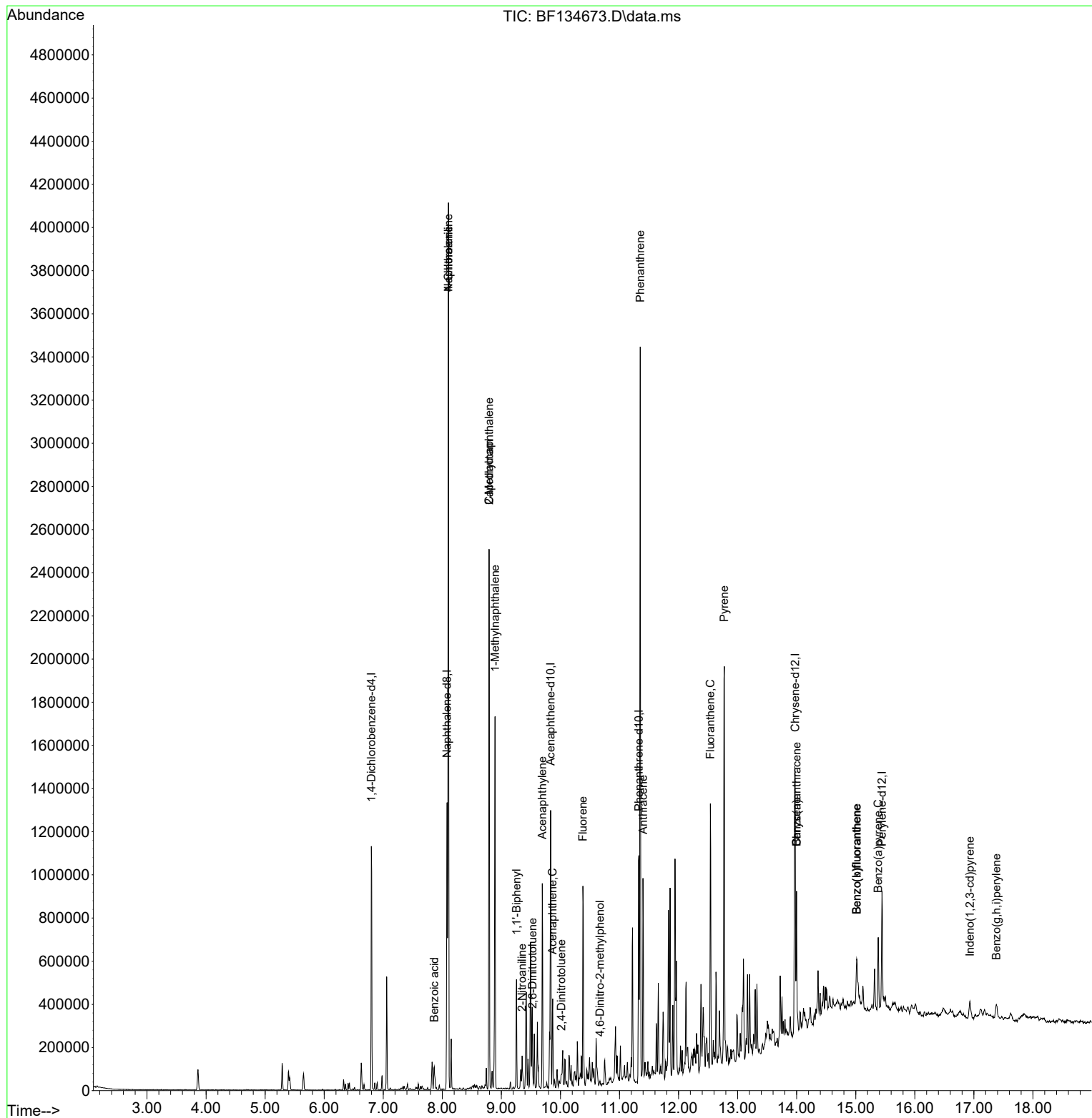
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	162589	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	561443	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	228948	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	417066	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	316790	20.000	ng	# 0.00
86) Perylene-d12	15.445	264	248974	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	6716	0.628	ng	0.00
7) Phenol-d6	6.428	99	8840	0.647	ng	-0.01
23) Nitrobenzene-d5	7.357	82	4244	0.472	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	1041	0.446	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	8284	0.602	ng	-0.01
79) Terphenyl-d14	12.916	244	11425	0.636	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.363	77	1206	Below Cal	#	1
31) Naphthalene	8.104	128	1649604	58.461	ng	99
32) Benzoic acid	7.863	122	143	7.888	ng	# 1
33) 4-Chloroaniline	8.104	127	220753	17.558	ng	# 32
35) Caprolactam	8.792	113	13240	5.171	ng	# 1
37) 2-Methylnaphthalene	8.792	142	583530	31.199	ng	100
38) 1-Methylnaphthalene	8.892	142	400947	23.053	ng	98
46) 1,1'-Biphenyl	9.257	154	147761	8.299	ng	97
48) 2-Nitroaniline	9.351	65	830	3.352	ng	# 8
49) Acenaphthylene	9.692	152	301332	14.370	ng	98
51) 2,6-Dinitrotoluene	9.528	165	2668	3.287	ng	86
52) Acenaphthene	9.869	154	75275	5.539	ng	97
57) 2,4-Dinitrotoluene	10.016	165	2940	3.567	ng	# 48
58) Fluorene	10.380	166	252023	17.886	ng	96
65) 4,6-Dinitro-2-methylph...	10.669	198	65	8.730	ng	# 1
71) Phenanthrene	11.351	178	1171595	52.887	ng	99
72) Anthracene	11.398	178	337033	14.894	ng	99
75) Fluoranthene	12.539	202	464137	19.835	ng	95
78) Pyrene	12.774	202	815804	29.761	ng	99
81) Benzo(a)anthracene	13.998	228	231545	10.222	ng	97
83) Chrysene	13.998	228	231545	10.492	ng	98
87) Indeno(1,2,3-cd)pyrene	16.933	276	51731	3.533	ng	# 92
88) Benzo(b)fluoranthene	15.015	252	174757	11.509	ng	# 93
89) Benzo(k)fluoranthene	15.015	252	174757	11.553	ng	# 95
90) Benzo(a)pyrene	15.380	252	155076	10.953	ng	# 95
92) Benzo(g,h,i)perylene	17.380	276	54790	4.539	ng	# 87

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

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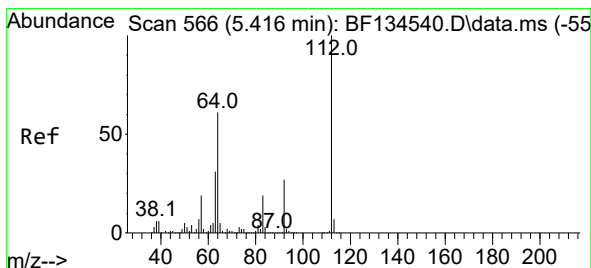
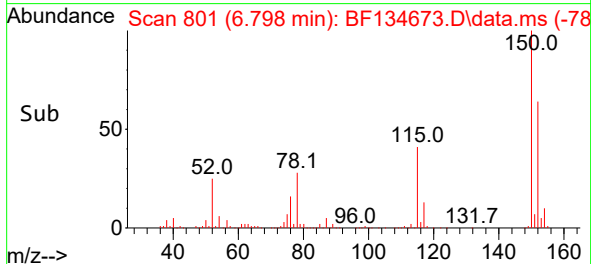
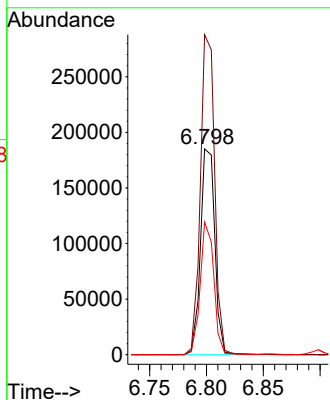
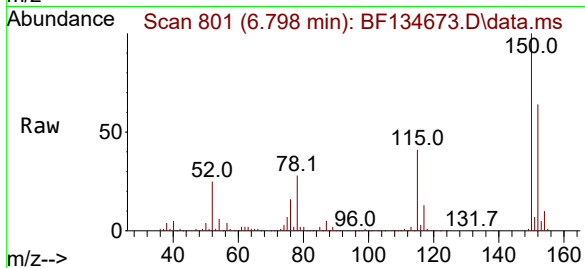




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

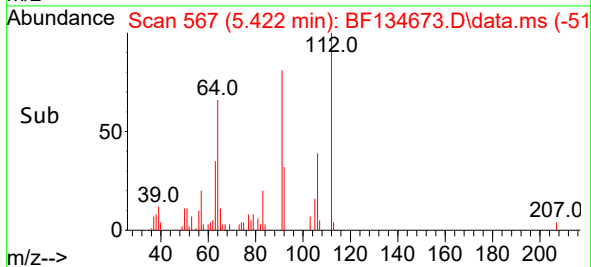
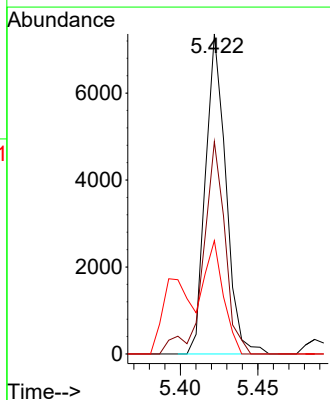
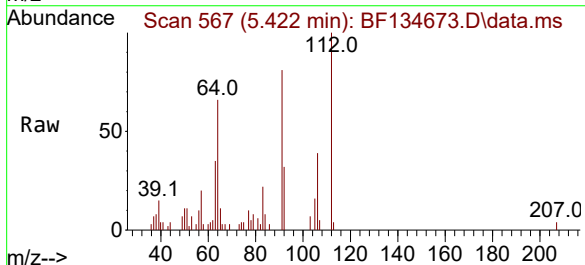
Instrument :
BNA_F
ClientSampleId :
DUP-01DL

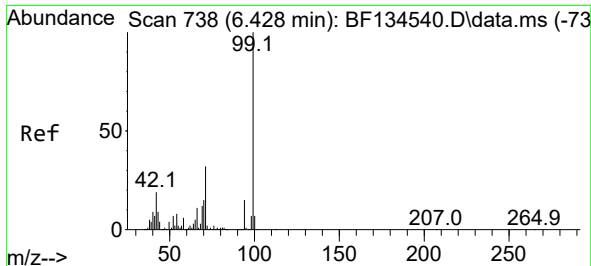
Tgt Ion:152 Resp: 162589
Ion Ratio Lower Upper
152 100
150 155.5 128.3 192.5
115 64.5 52.4 78.6



#5
2-Fluorophenol
Concen: 0.628 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:112 Resp: 6716
Ion Ratio Lower Upper
112 100
64 66.3 44.9 67.3
63 35.4 25.4 38.0

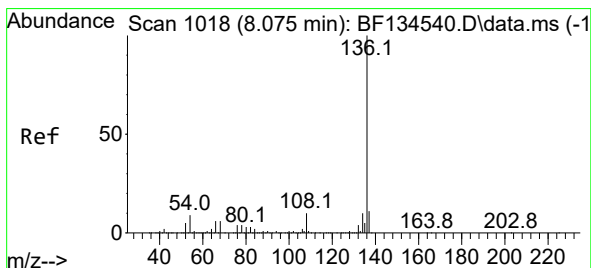
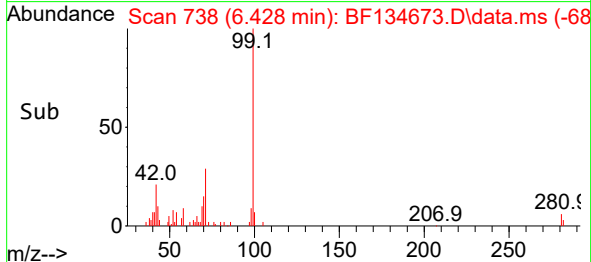
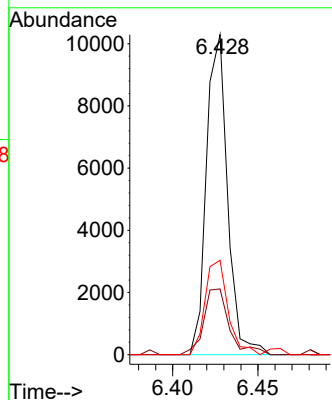
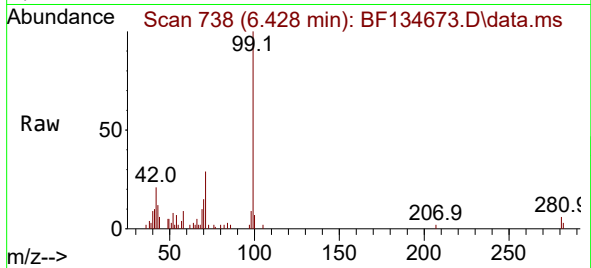




#7
Phenol-d6
Concen: 0.647 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

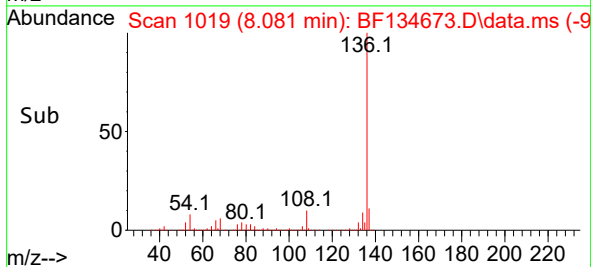
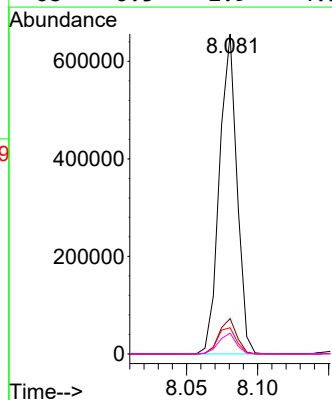
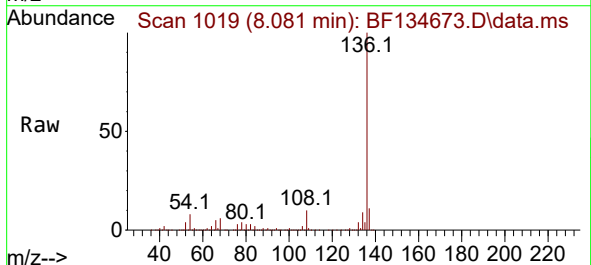
Instrument :
BNA_F
ClientSampleId :
DUP-01DL

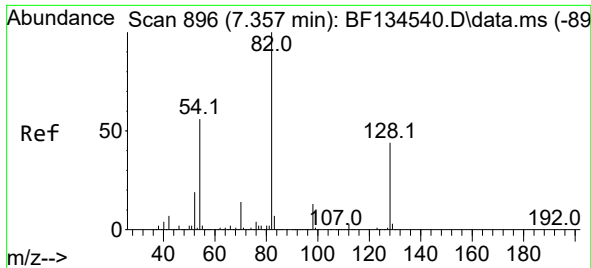
Tgt Ion: 99 Resp: 8840
Ion Ratio Lower Upper
99 100
42 20.5 18.7 28.1
71 29.5 36.4 54.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion: 136 Resp: 561443
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.2 5.2 7.8#
68 6.5 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 0.472 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

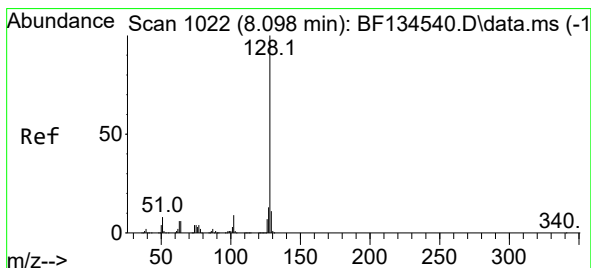
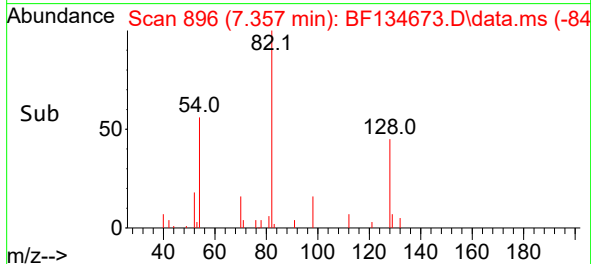
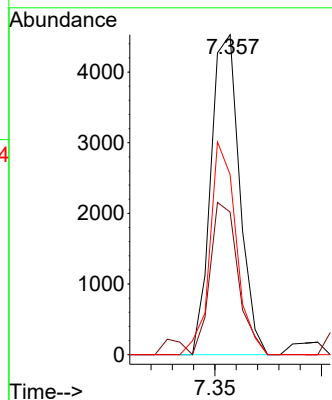
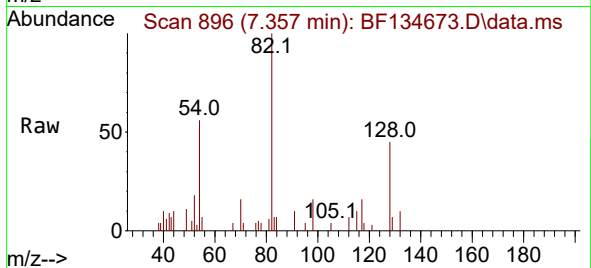
Tgt Ion: 82 Resp: 4244

Ion Ratio Lower Upper

82 100

128 44.6 34.3 51.5

54 56.3 43.8 65.6



#31

Naphthalene

Concen: 58.461 ng

RT: 8.104 min Scan# 1023

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

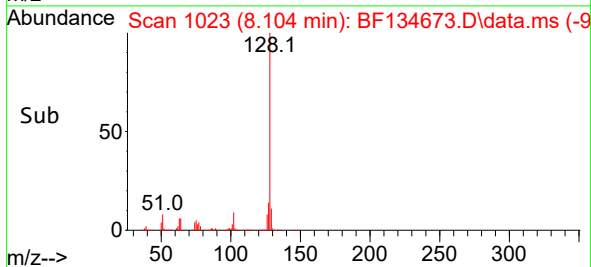
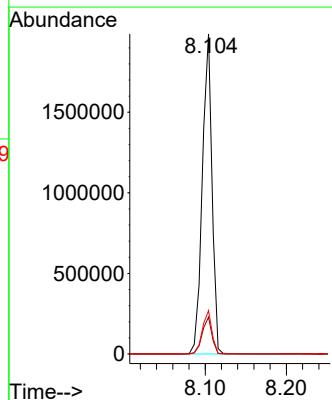
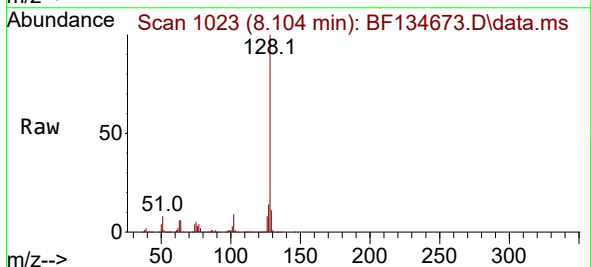
Tgt Ion: 128 Resp: 1649604

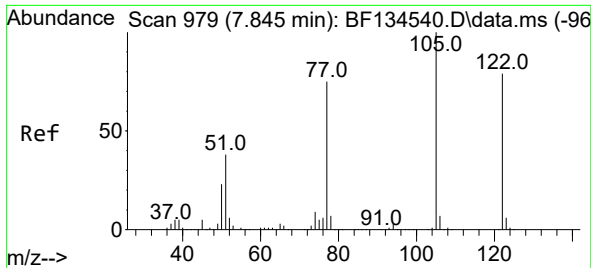
Ion Ratio Lower Upper

128 100

129 11.5 8.4 12.6

127 13.5 10.7 16.1

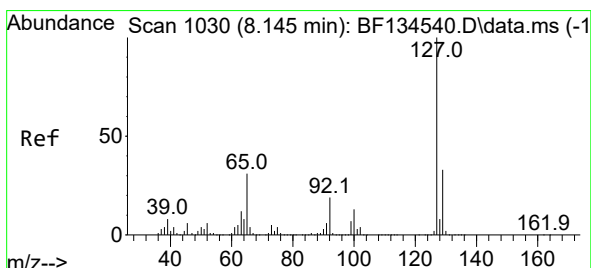
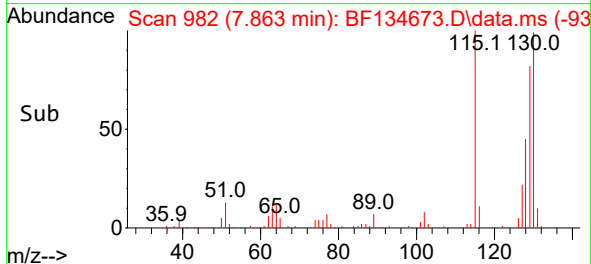
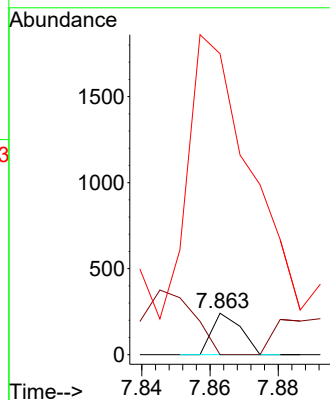
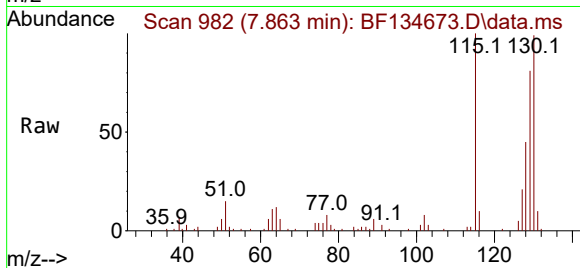




#32
Benzoic acid
Concen: 7.888 ng
RT: 7.863 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

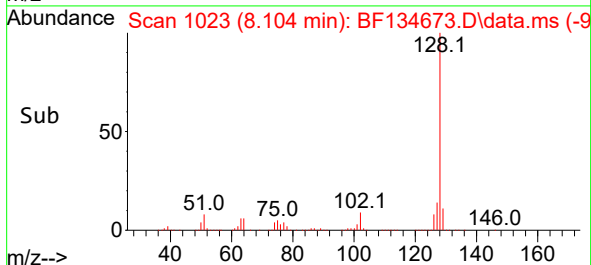
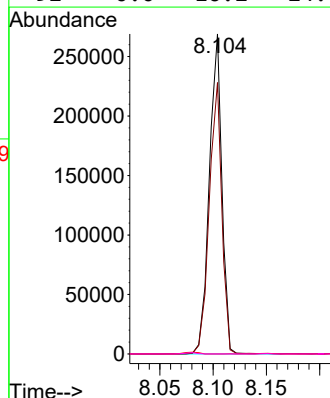
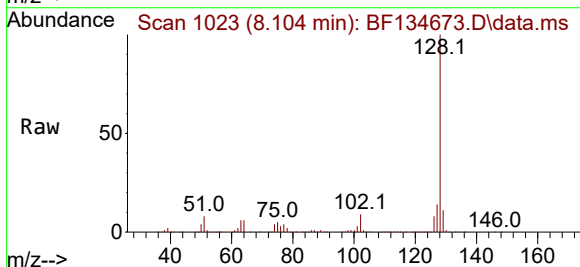
Instrument :
BNA_F
ClientSampleId :
DUP-01DL

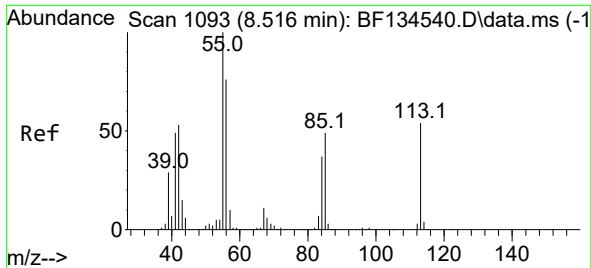
Tgt Ion:122 Resp: 143
Ion Ratio Lower Upper
122 100
105 0.0 87.5 127.5#
77 725.7 71.4 111.4#



#33
4-Chloroaniline
Concen: 17.558 ng
RT: 8.104 min Scan# 1023
Delta R.T. -0.047 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:127 Resp: 220753
Ion Ratio Lower Upper
127 100
129 84.8 25.6 38.4#
65 0.0 25.4 38.0#
92 0.0 16.2 24.4#

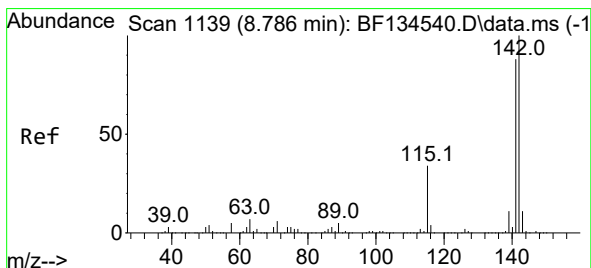
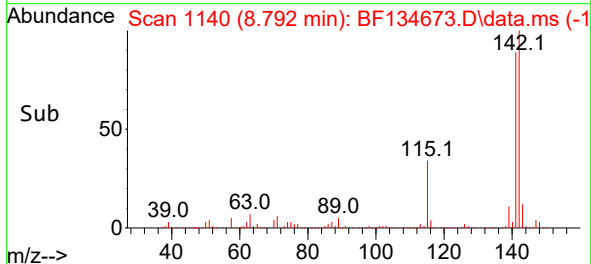
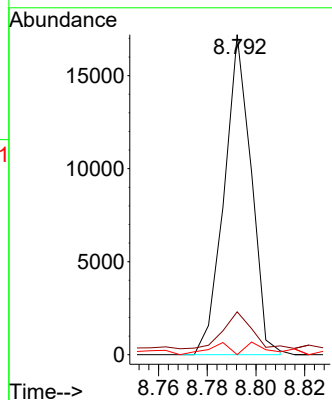
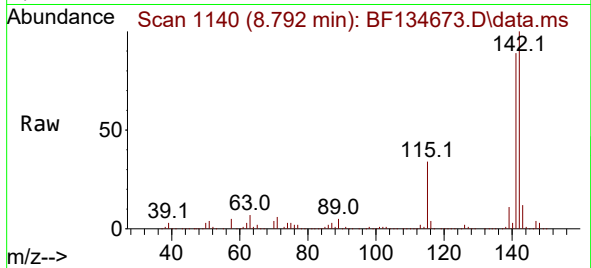




#35
 Caprolactam
 Concen: 5.171 ng
 RT: 8.792 min Scan# 1140
 Delta R.T. 0.259 min
 Lab File: BF134673.D
 Acq: 08 Aug 2023 15:55

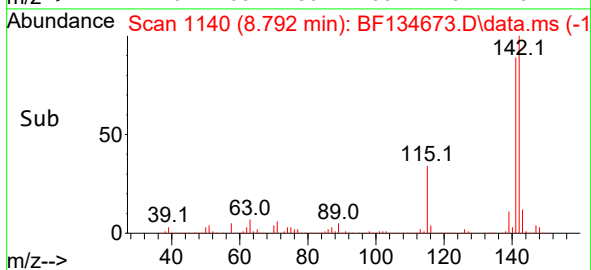
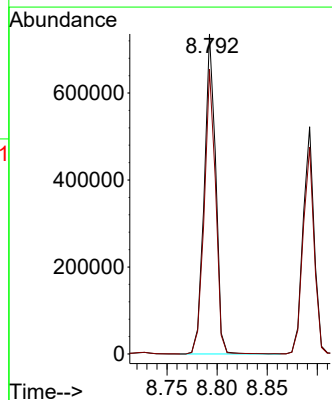
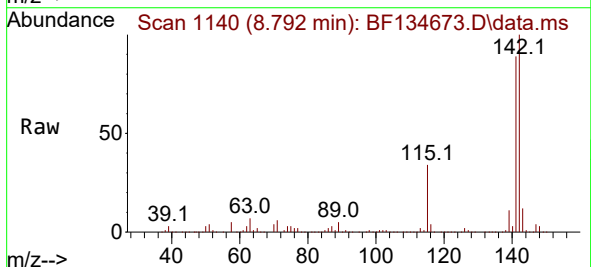
Instrument :
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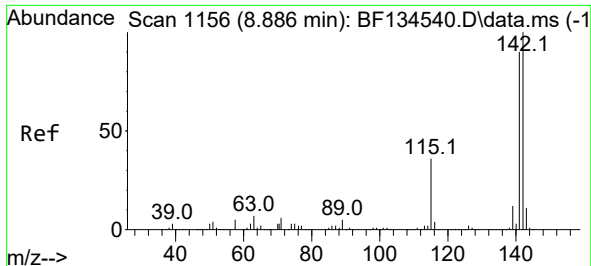
Tgt Ion:113 Resp: 13240
 Ion Ratio Lower Upper
 113 100
 55 13.4 161.5 201.5#
 56 0.0 117.8 157.8#



#37
 2-Methylnaphthalene
 Concen: 31.199 ng
 RT: 8.792 min Scan# 1140
 Delta R.T. 0.000 min
 Lab File: BF134673.D
 Acq: 08 Aug 2023 15:55

Tgt Ion:142 Resp: 583530
 Ion Ratio Lower Upper
 142 100
 141 88.9 70.8 106.2





#38

1-Methylnaphthalene

Concen: 23.053 ng

RT: 8.892 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

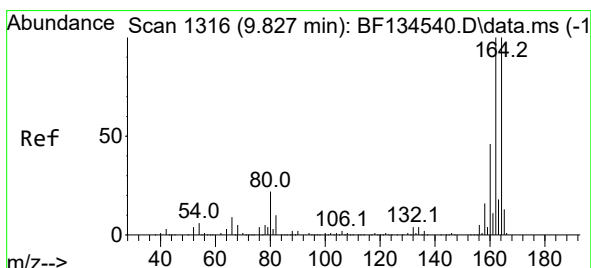
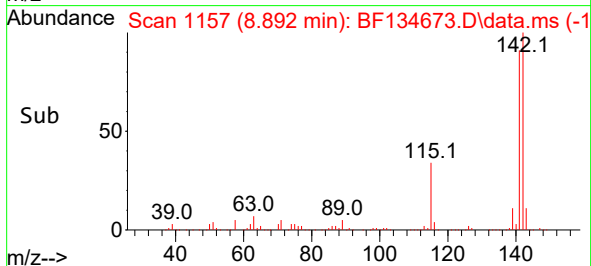
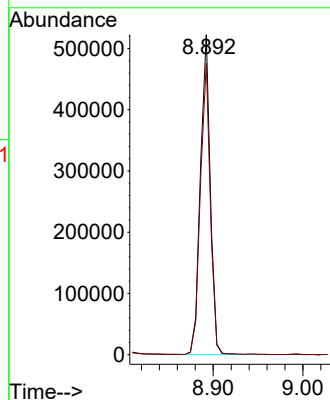
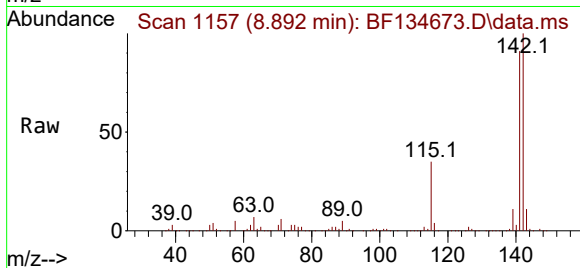
DUP-01DL

Tgt Ion:142 Resp: 400947

Ion Ratio Lower Upper

142 100

141 91.0 71.4 107.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 1317

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

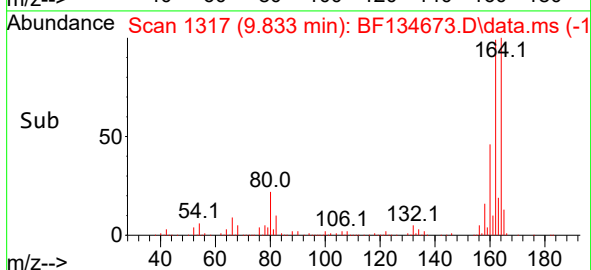
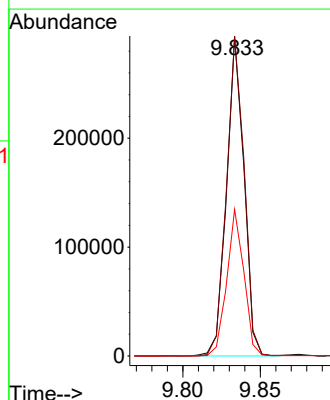
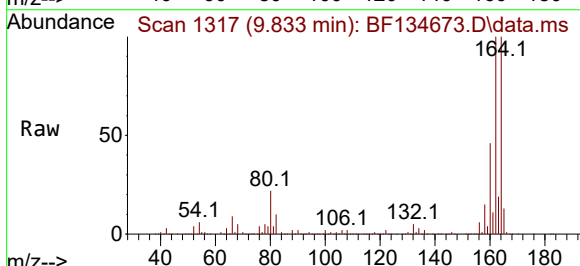
Tgt Ion:164 Resp: 228948

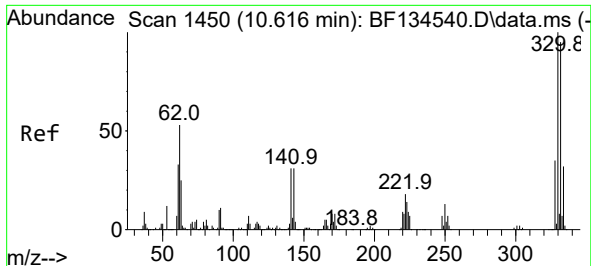
Ion Ratio Lower Upper

164 100

162 100.3 82.6 123.8

160 45.9 37.2 55.8





#42

2,4,6-Tribromophenol

Concen: 0.446 ng

RT: 10.622 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF134673.D

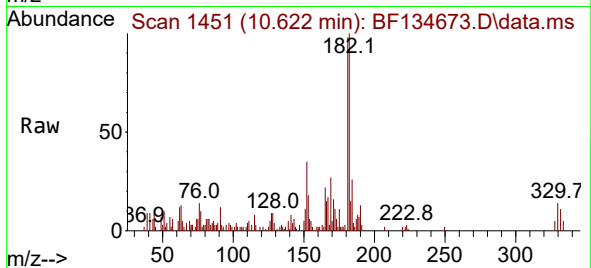
Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL



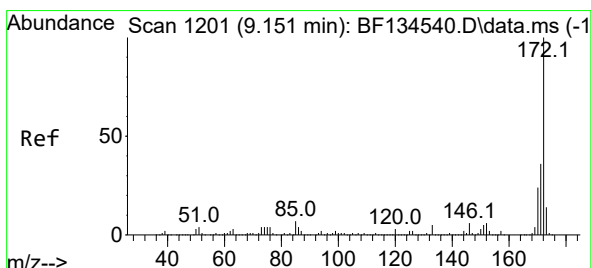
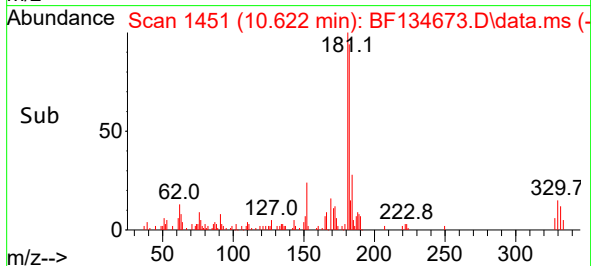
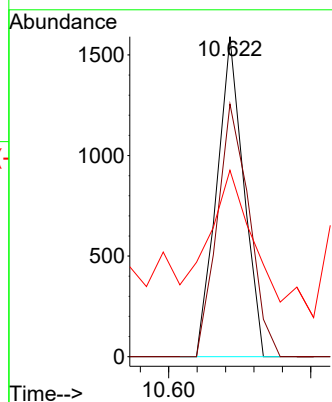
Tgt Ion:330 Resp: 1041

Ion Ratio Lower Upper

330 100

332 94.0 78.8 118.2

141 61.0 25.4 38.2#



#45

2-Fluorobiphenyl

Concen: 0.602 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

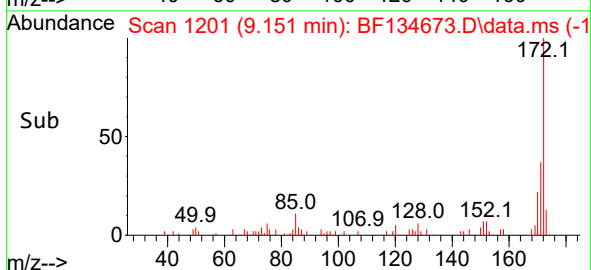
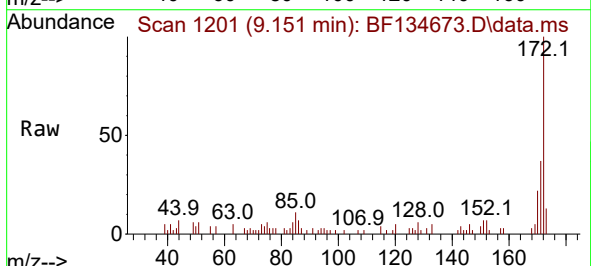
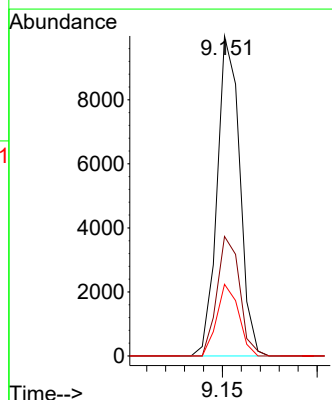
Tgt Ion:172 Resp: 8284

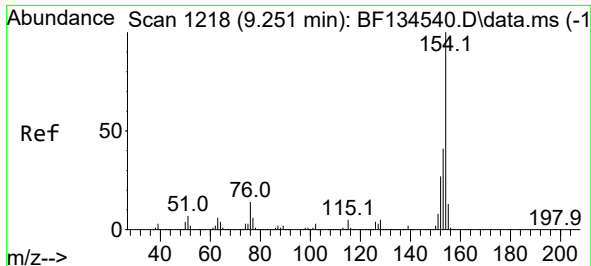
Ion Ratio Lower Upper

172 100

171 37.3 28.8 43.2

170 22.4 18.7 28.1





#46

1,1'-Biphenyl

Concen: 8.299 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

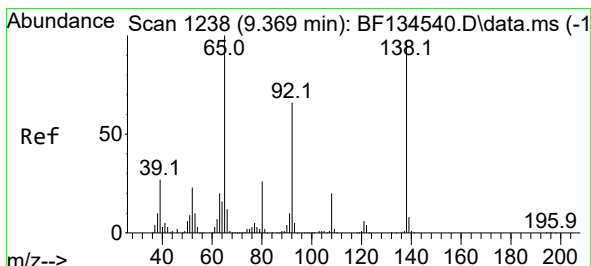
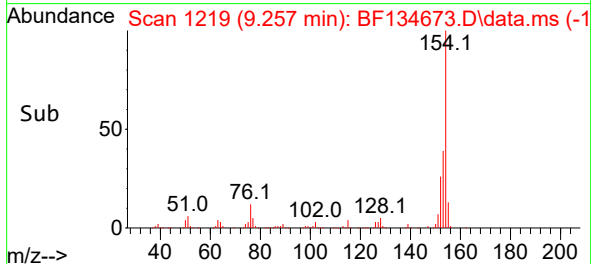
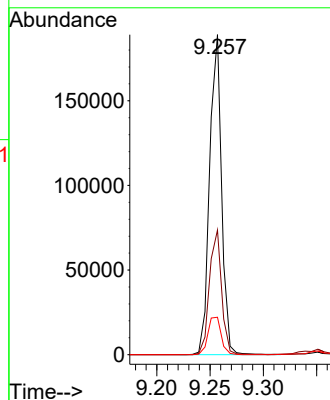
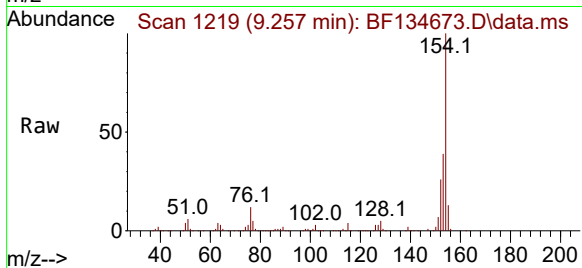
Tgt Ion:154 Resp: 147761

Ion Ratio Lower Upper

154 100

153 39.0 20.8 60.8

76 11.7 0.0 30.2



#48

2-Nitroaniline

Concen: 3.352 ng

RT: 9.351 min Scan# 1235

Delta R.T. -0.029 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

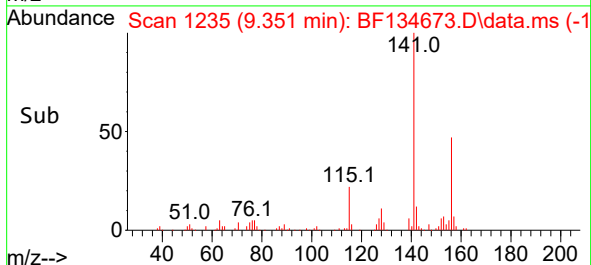
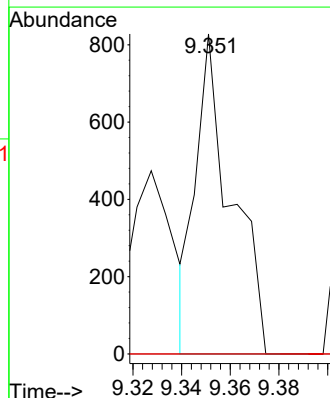
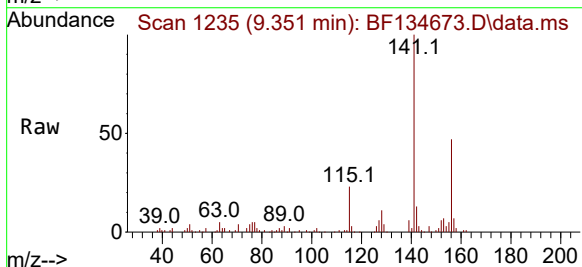
Tgt Ion: 65 Resp: 830

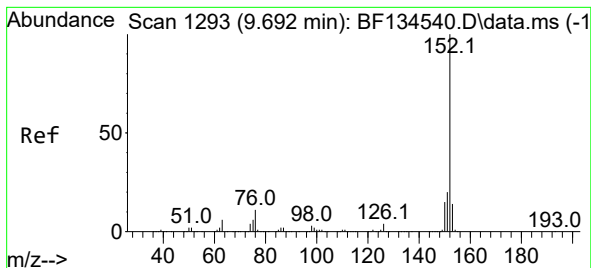
Ion Ratio Lower Upper

65 100

92 0.0 50.7 76.1#

138 0.0 78.2 117.4#





#49

Acenaphthylene

Concen: 14.370 ng

RT: 9.692 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

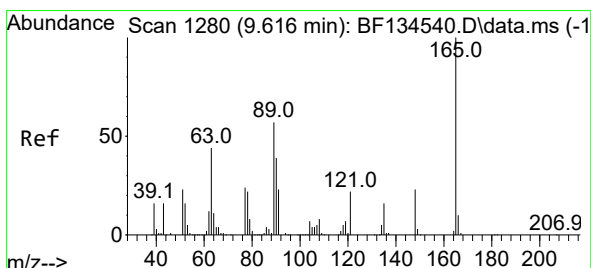
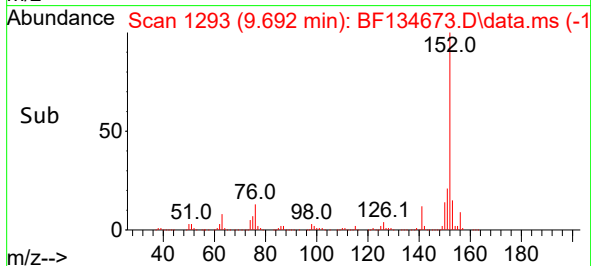
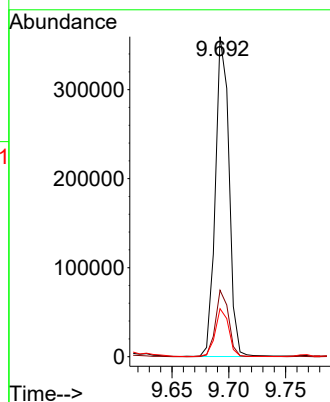
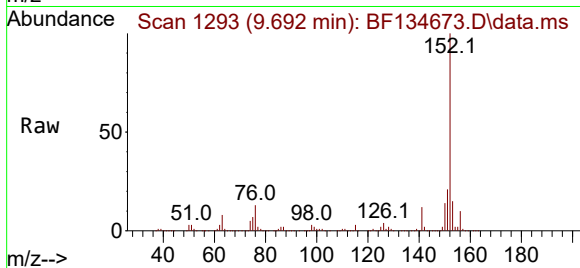
Tgt Ion:152 Resp: 301332

Ion Ratio Lower Upper

152 100

151 20.8 16.4 24.6

153 15.0 10.9 16.3



#51

2,6-Dinitrotoluene

Concen: 3.287 ng

RT: 9.528 min Scan# 1265

Delta R.T. -0.100 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

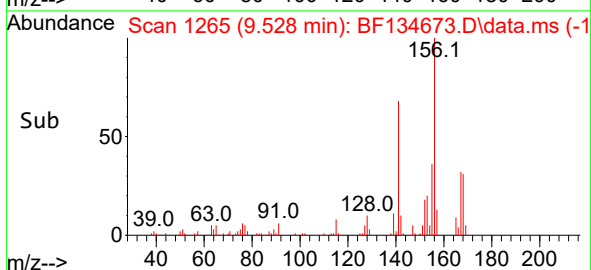
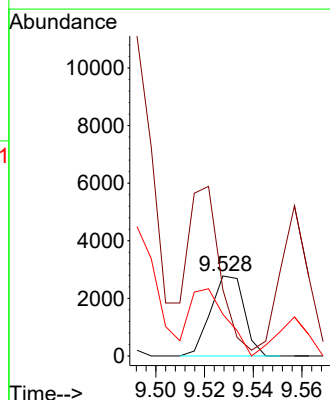
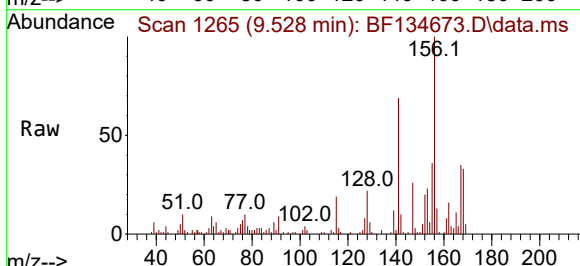
Tgt Ion:165 Resp: 2668

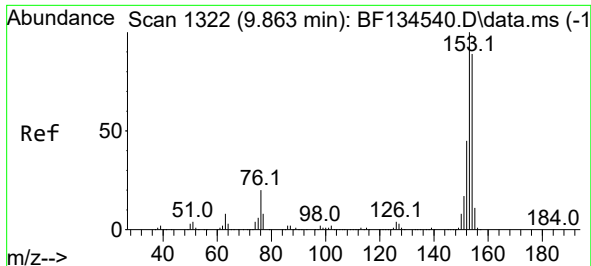
Ion Ratio Lower Upper

165 100

63 82.5 57.8 86.6

89 52.0 51.8 77.8

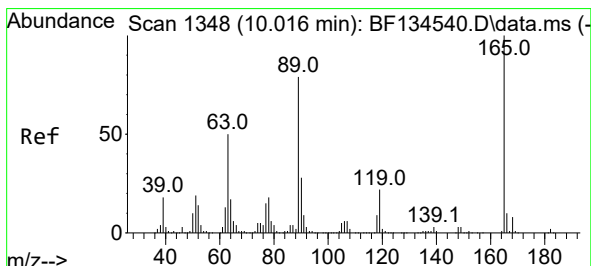
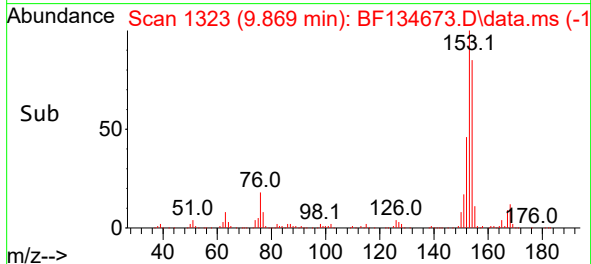
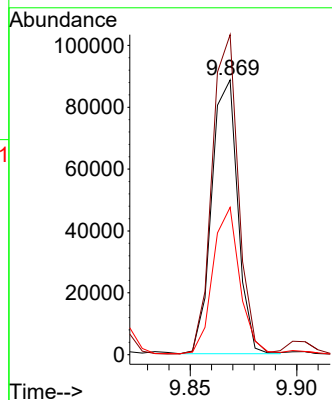
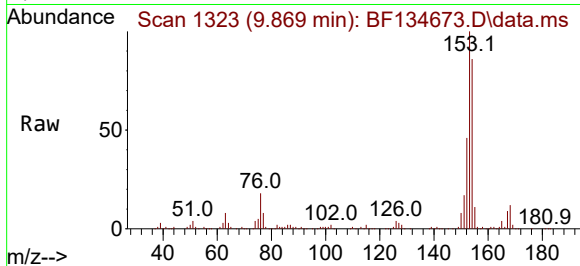




#52
Acenaphthene
Concen: 5.539 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

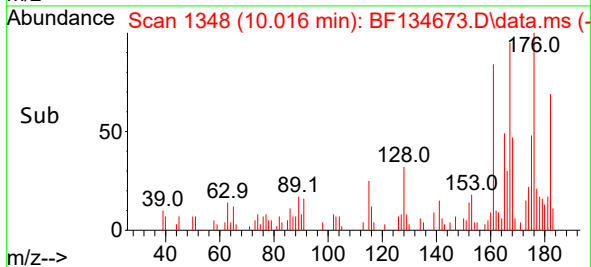
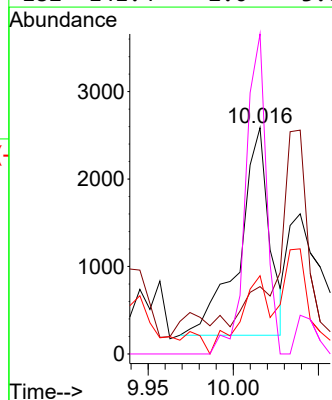
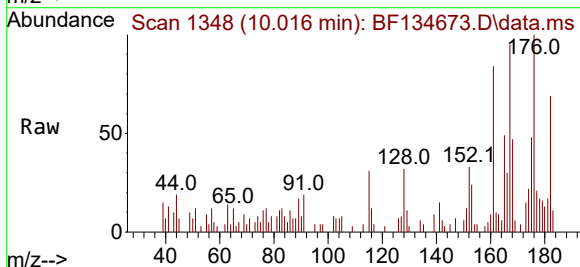
Instrument :
BNA_F
ClientSampleId :
DUP-01DL

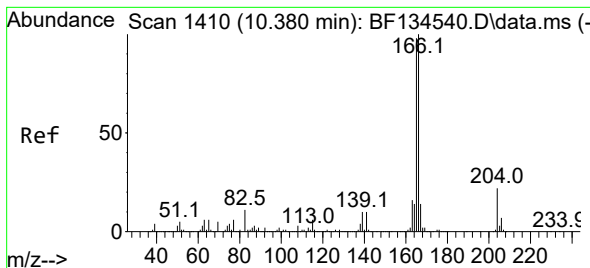
Tgt Ion:154 Resp: 75275
Ion Ratio Lower Upper
154 100
153 116.5 90.0 135.0
152 53.6 42.4 63.6



#57
2,4-Dinitrotoluene
Concen: 3.567 ng
RT: 10.016 min Scan# 1348
Delta R.T. -0.012 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:165 Resp: 2940
Ion Ratio Lower Upper
165 100
63 29.8 48.9 73.3#
89 34.6 61.7 92.5#
182 141.4 2.0 3.0#





#58

Fluorene

Concen: 17.886 ng

RT: 10.380 min Scan# 1410

Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

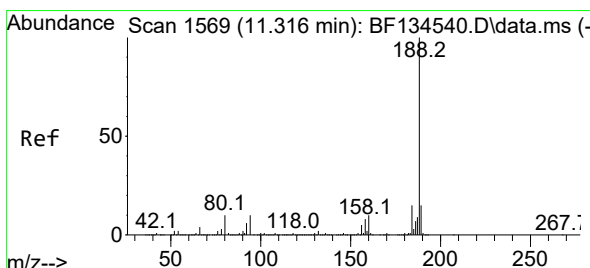
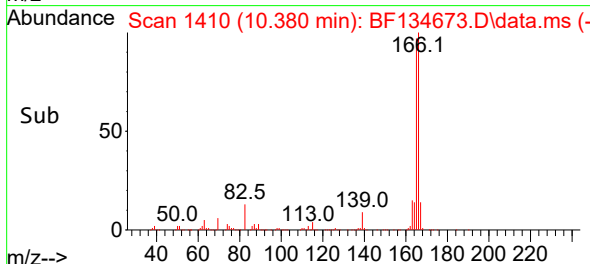
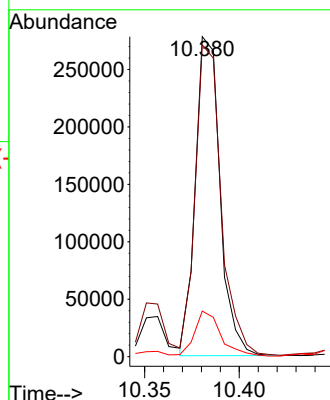
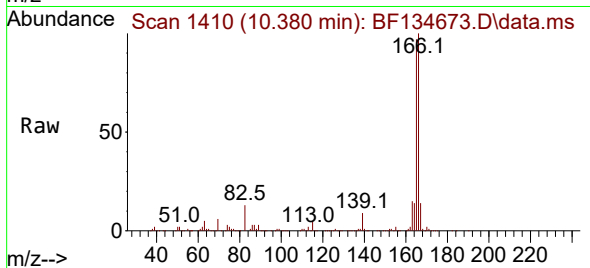
Tgt Ion:166 Resp: 252023

Ion Ratio Lower Upper

166 100

165 97.5 74.5 111.7

167 14.3 10.6 16.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.327 min Scan# 1571

Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

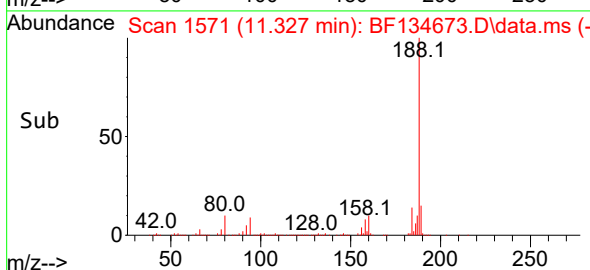
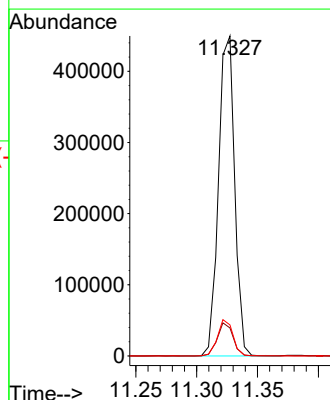
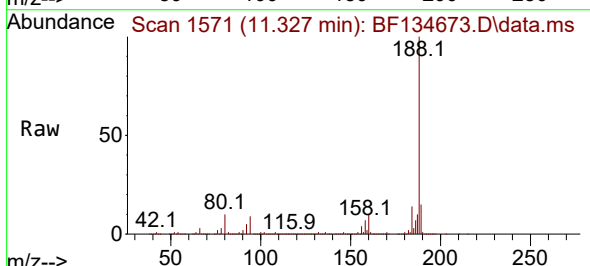
Tgt Ion:188 Resp: 417066

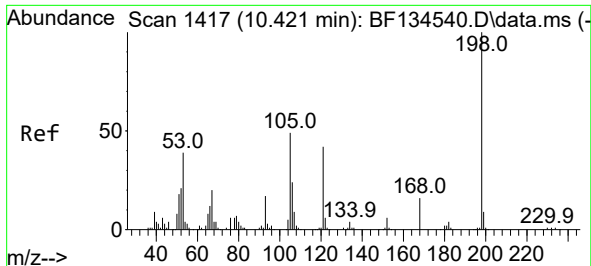
Ion Ratio Lower Upper

188 100

94 8.8 5.1 7.7#

80 9.7 6.6 9.8

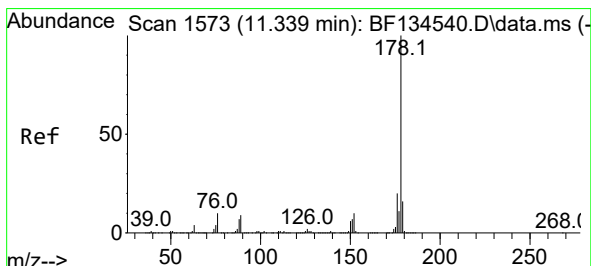
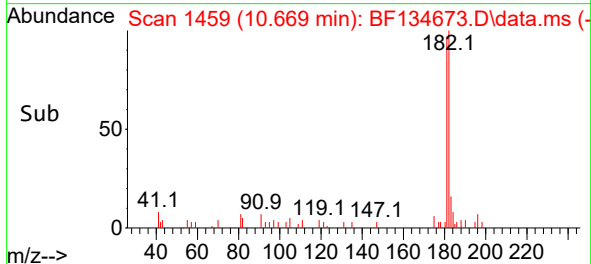
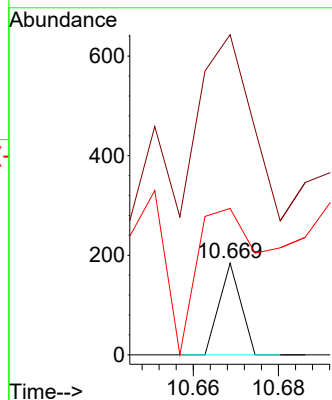
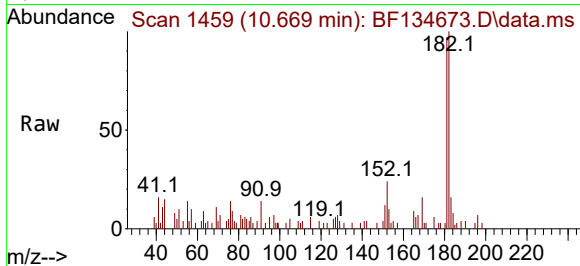




#65
 4,6-Dinitro-2-methylphenol
 Concen: 8.730 ng
 RT: 10.669 min Scan# 1417
 Delta R.T. 0.229 min
 Lab File: BF134673.D
 Acq: 08 Aug 2023 15:55

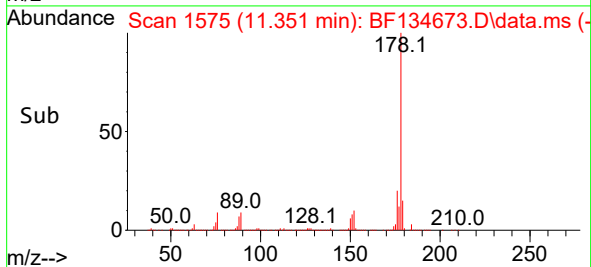
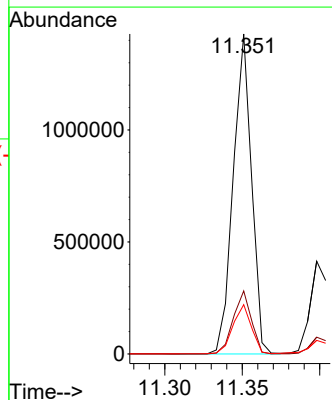
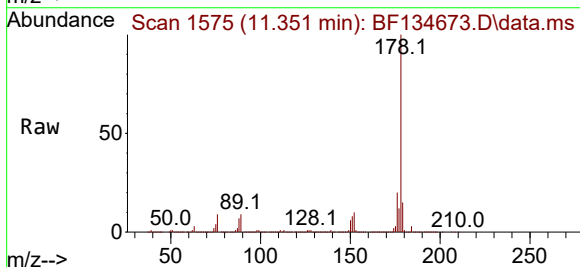
Instrument :
 BNA_F
 ClientSampleId :
 DUP-01DL

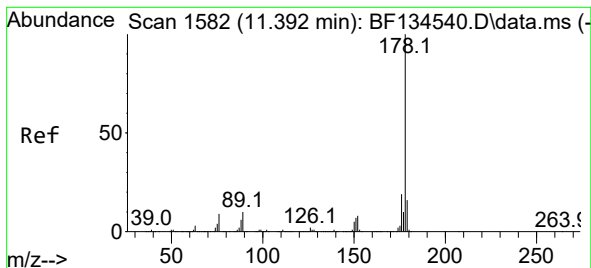
Tgt Ion:198 Resp: 65
 Ion Ratio Lower Upper
 198 100
 51 349.5 38.6 78.6#
 105 159.8 27.9 67.9#



#71
 Phenanthrene
 Concen: 52.887 ng
 RT: 11.351 min Scan# 1575
 Delta R.T. 0.000 min
 Lab File: BF134673.D
 Acq: 08 Aug 2023 15:55

Tgt Ion:178 Resp: 1171595
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.6
 179 15.4 12.7 19.1





#72

Anthracene

Concen: 14.894 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

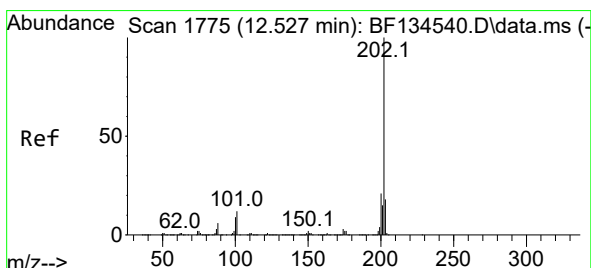
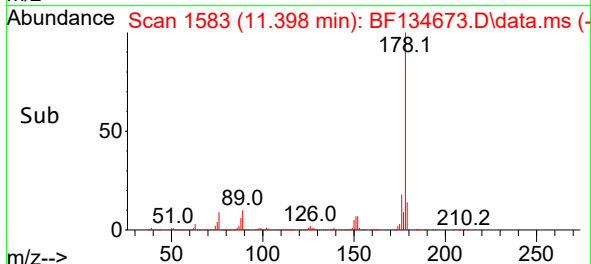
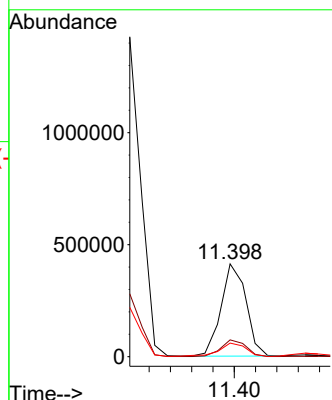
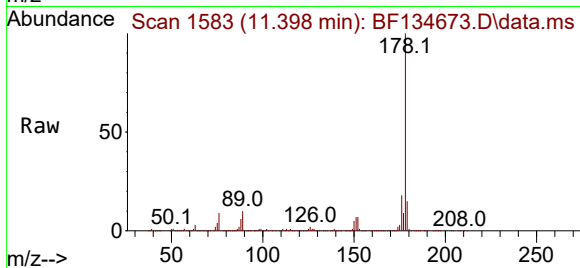
Tgt Ion:178 Resp: 337033

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

179 14.7 12.3 18.5



#75

Fluoranthene

Concen: 19.835 ng

RT: 12.539 min Scan# 1777

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

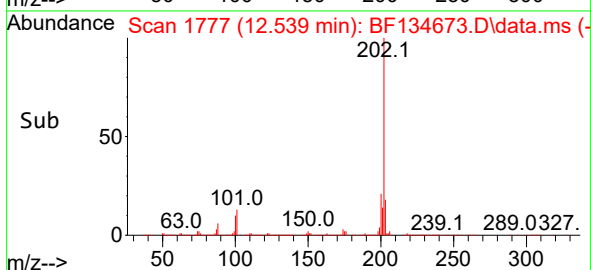
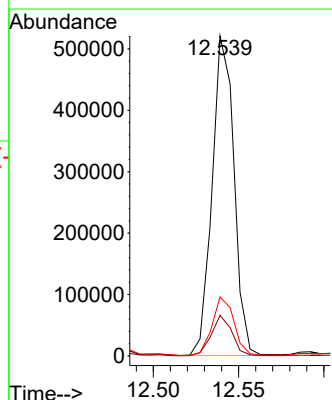
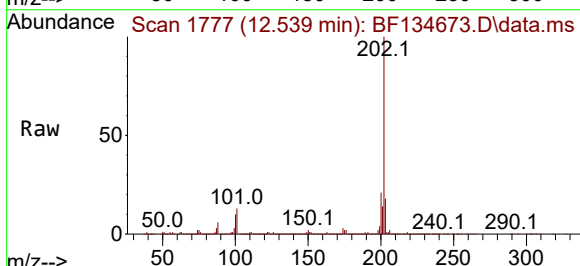
Tgt Ion:202 Resp: 464137

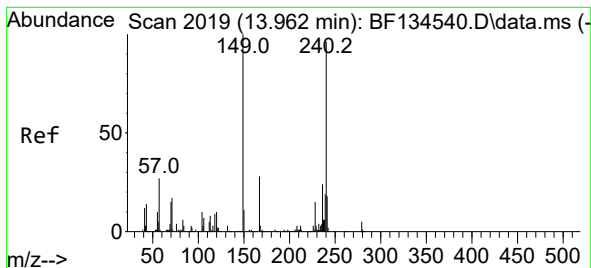
Ion Ratio Lower Upper

202 100

101 12.7 0.0 28.5

203 18.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

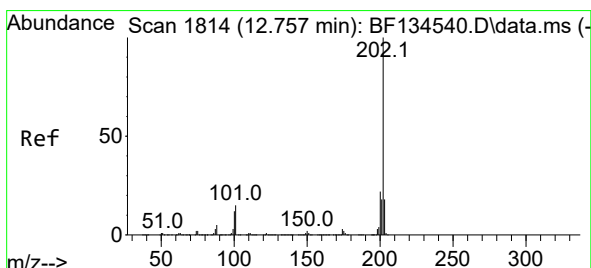
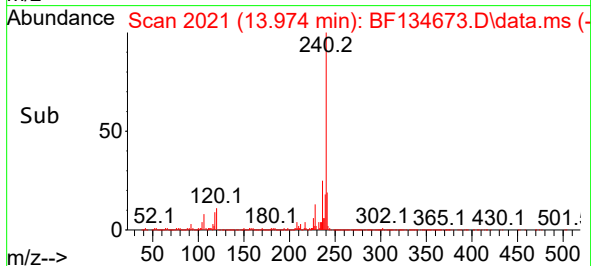
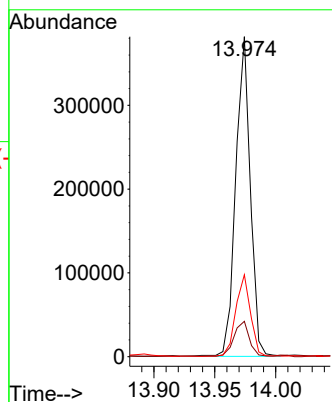
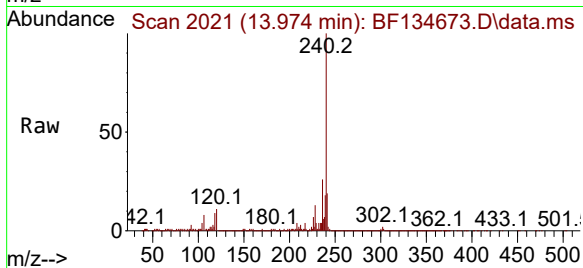
Tgt Ion:240 Resp: 316790

Ion Ratio Lower Upper

240 100

120 11.0 6.6 10.0#

236 25.6 20.2 30.2



#78

Pyrene

Concen: 29.761 ng

RT: 12.774 min Scan# 1817

Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

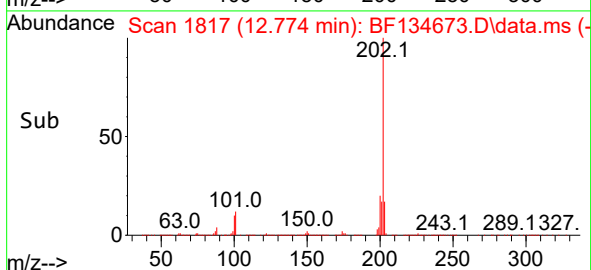
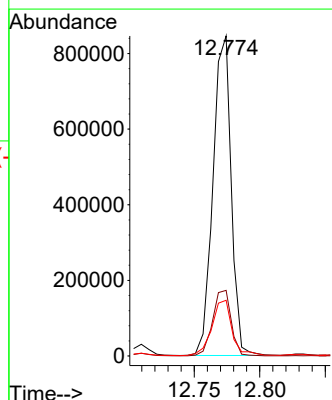
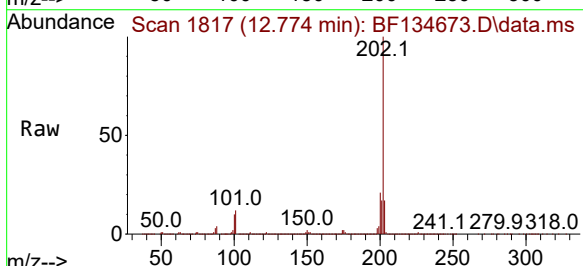
Tgt Ion:202 Resp: 815804

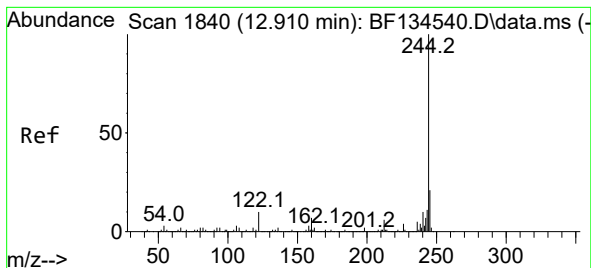
Ion Ratio Lower Upper

202 100

200 20.5 15.8 23.8

203 17.4 13.5 20.3





#79

Terphenyl-d14

Concen: 0.636 ng

RT: 12.916 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

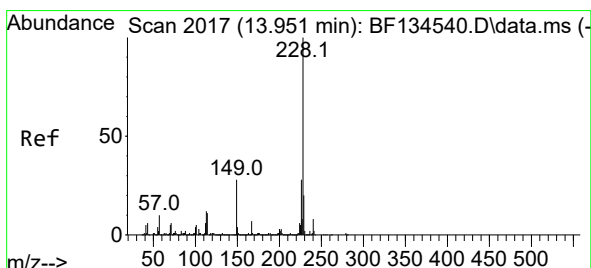
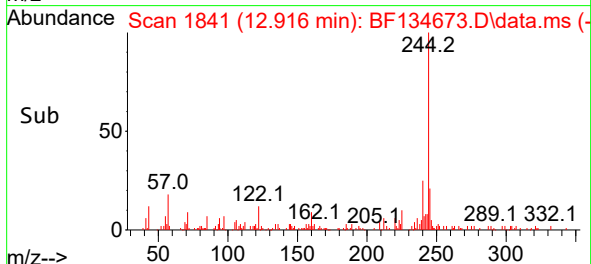
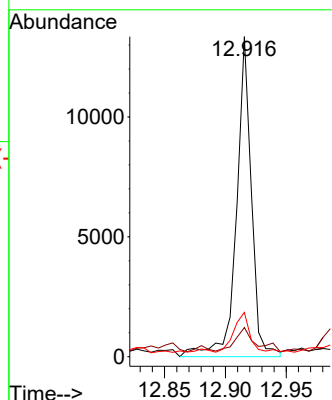
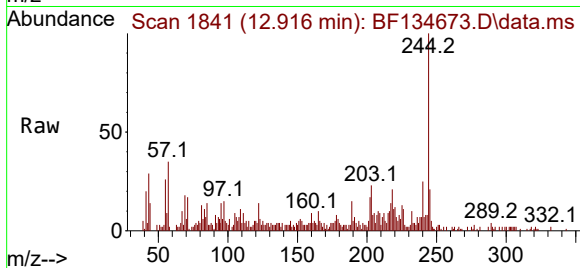
Tgt Ion:244 Resp: 11425

Ion Ratio Lower Upper

244 100

212 9.1 5.6 8.4#

122 13.9 8.0 12.0#



#81

Benzo(a)anthracene

Concen: 10.222 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.035 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

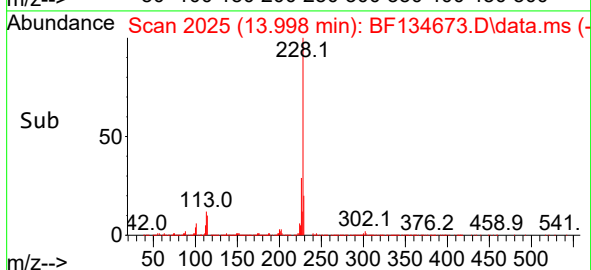
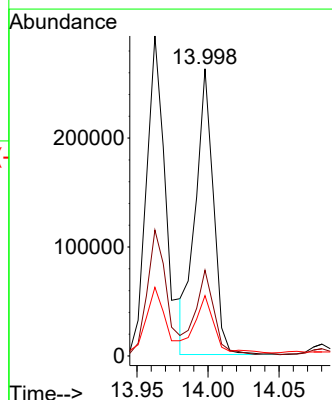
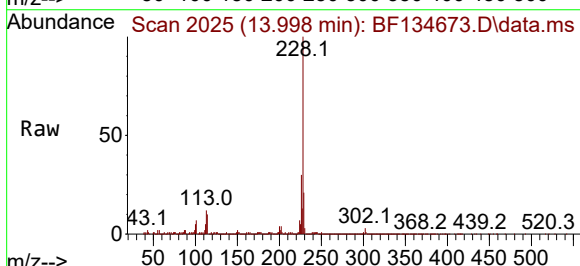
Tgt Ion:228 Resp: 231545

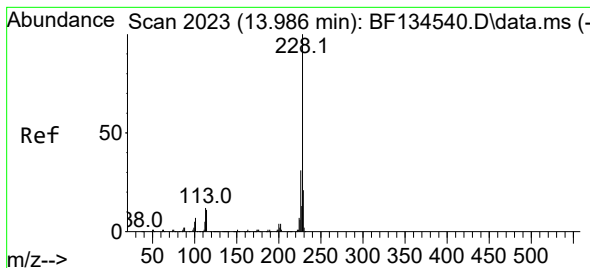
Ion Ratio Lower Upper

228 100

226 29.8 22.3 33.5

229 21.0 15.8 23.6





#83

Chrysene

Concen: 10.492 ng

RT: 13.998 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNA_F

ClientSampleId :

DUP-01DL

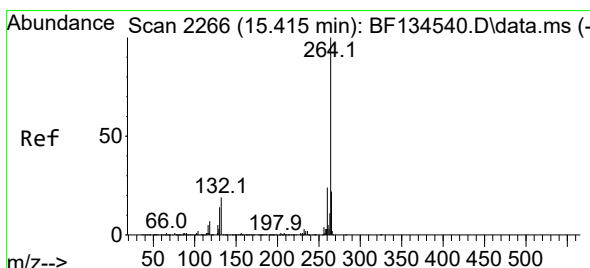
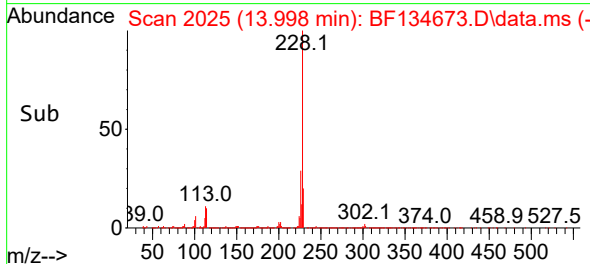
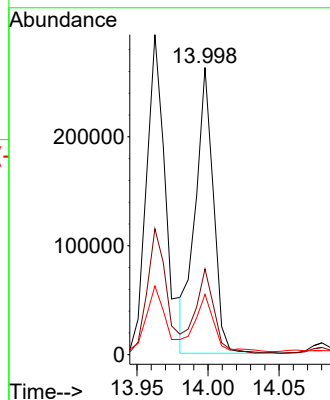
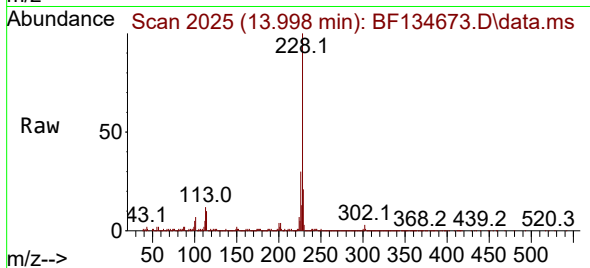
Tgt Ion:228 Resp: 231545

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

229 21.0 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

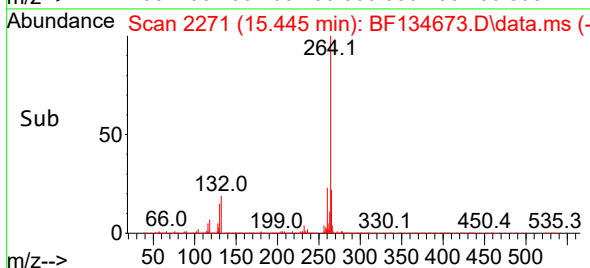
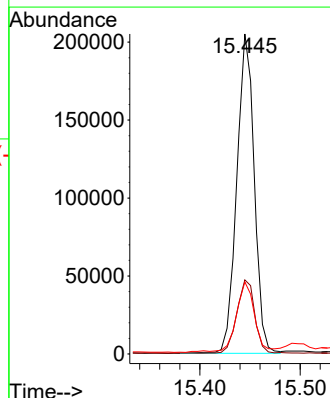
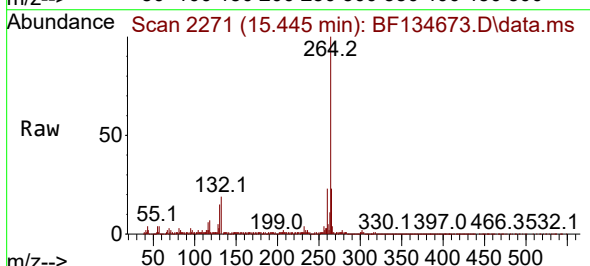
Tgt Ion:264 Resp: 248974

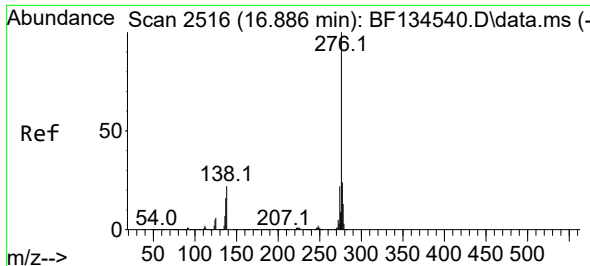
Ion Ratio Lower Upper

264 100

260 23.1 18.4 27.6

265 22.5 15.8 23.8

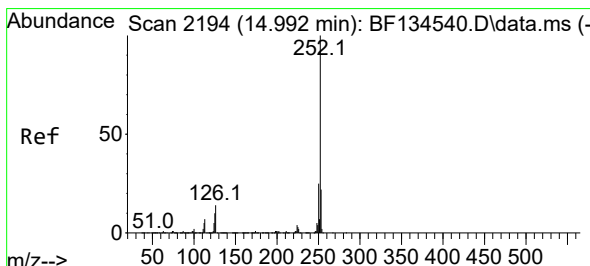
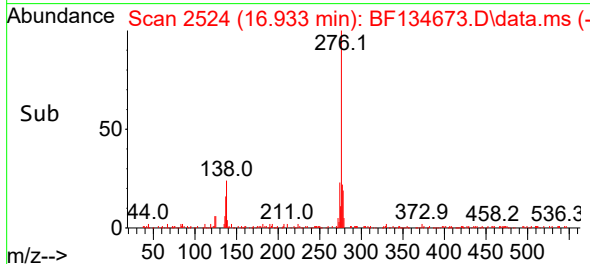
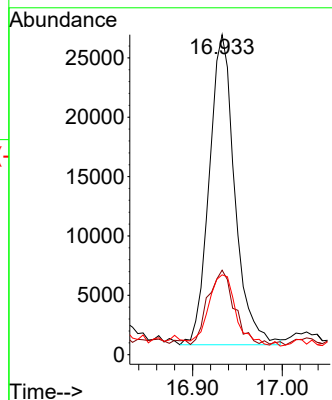
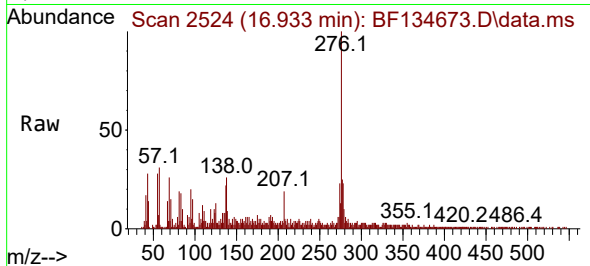




#87
Indeno(1,2,3-cd)pyrene
Concen: 3.533 ng
RT: 16.933 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

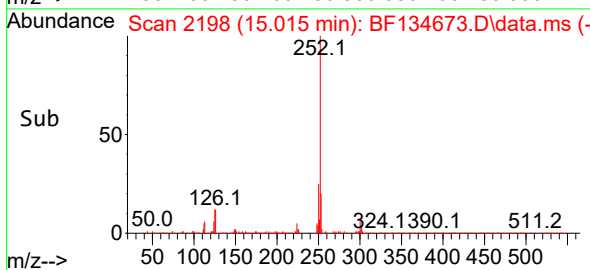
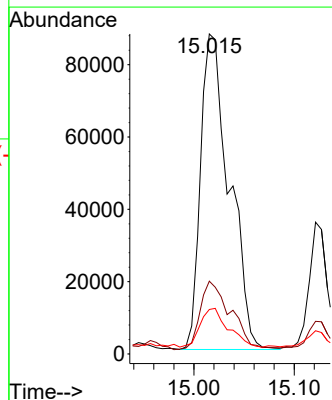
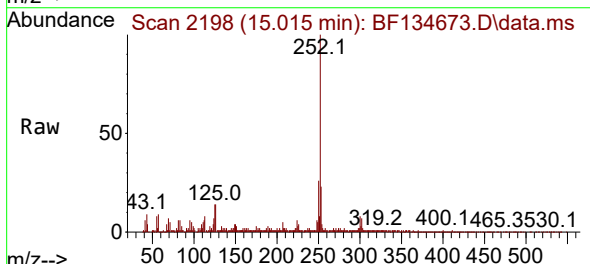
Instrument :
BNA_F
ClientSampleId :
DUP-01DL

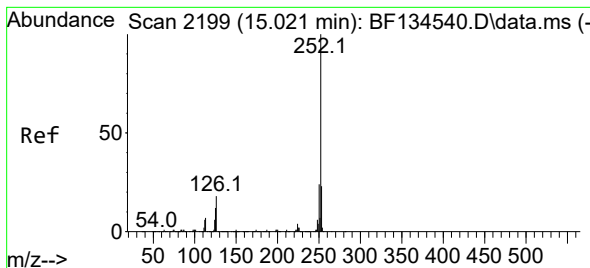
Tgt Ion:276 Resp: 51731
Ion Ratio Lower Upper
276 100
138 24.6 14.2 21.4#
277 23.7 19.9 29.9



#88
Benzo(b)fluoranthene
Concen: 11.509 ng
RT: 15.015 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF134673.D
Acq: 08 Aug 2023 15:55

Tgt Ion:252 Resp: 174757
Ion Ratio Lower Upper
252 100
253 22.7 17.3 25.9
125 13.9 6.0 9.0#





#89

Benzo(k)fluoranthene

Concen: 11.553 ng

RT: 15.015 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

Instrument :

BNF_F

ClientSampleId :

DUP-01DL

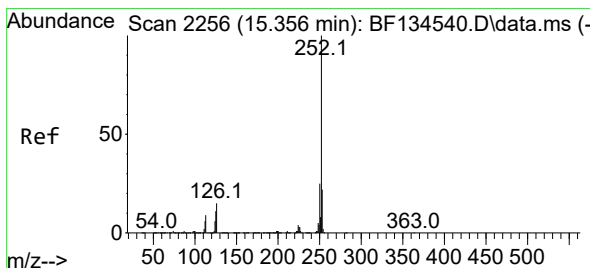
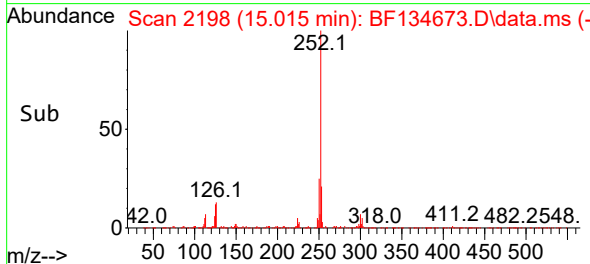
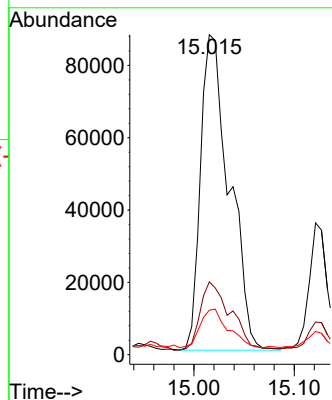
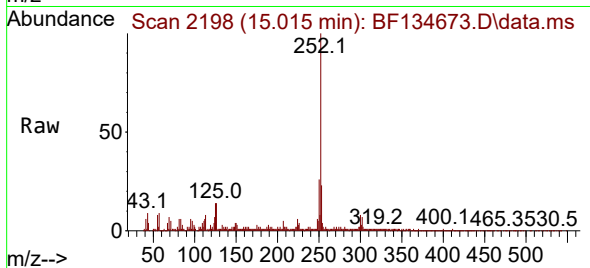
Tgt Ion:252 Resp: 174757

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

125 13.9 6.3 9.5#



#90

Benzo(a)pyrene

Concen: 10.953 ng

RT: 15.380 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF134673.D

Acq: 08 Aug 2023 15:55

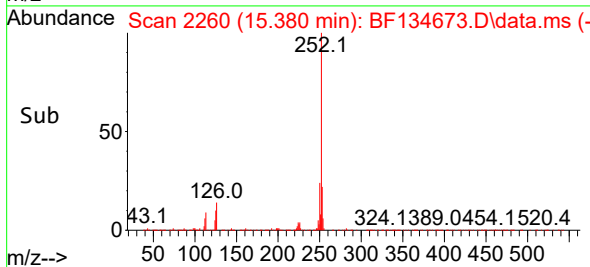
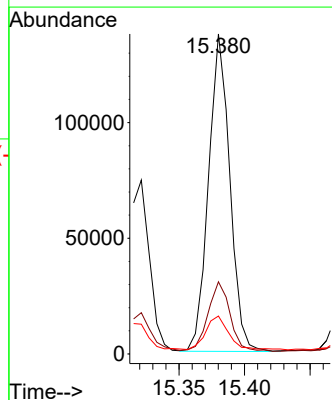
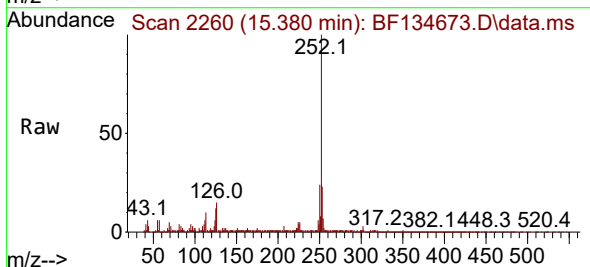
Tgt Ion:252 Resp: 155076

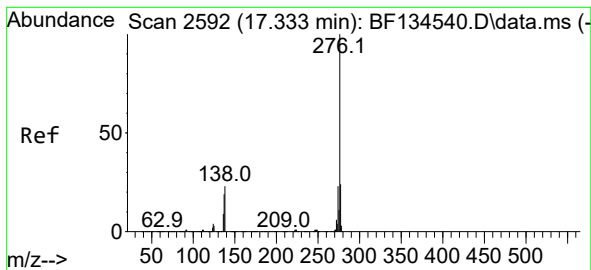
Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.4

125 11.9 6.2 9.4#





#92
 Benzo(g,h,i)perylene
 Concen: 4.539 ng
 RT: 17.380 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF134673.D
 Acq: 08 Aug 2023 15:55

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01DL

Tgt Ion:276 Resp: 54790
 Ion Ratio Lower Upper
 276 100
 277 24.0 19.0 28.6
 138 28.3 12.2 18.2#

