

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050323\
 Data File : BF133220.D
 Acq On : 03 May 2023 21:54
 Operator : CG\JU
 Sample : 02582-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-050223

Quant Time: May 04 01:42:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:31:52 2023
 Response via : Initial Calibration

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

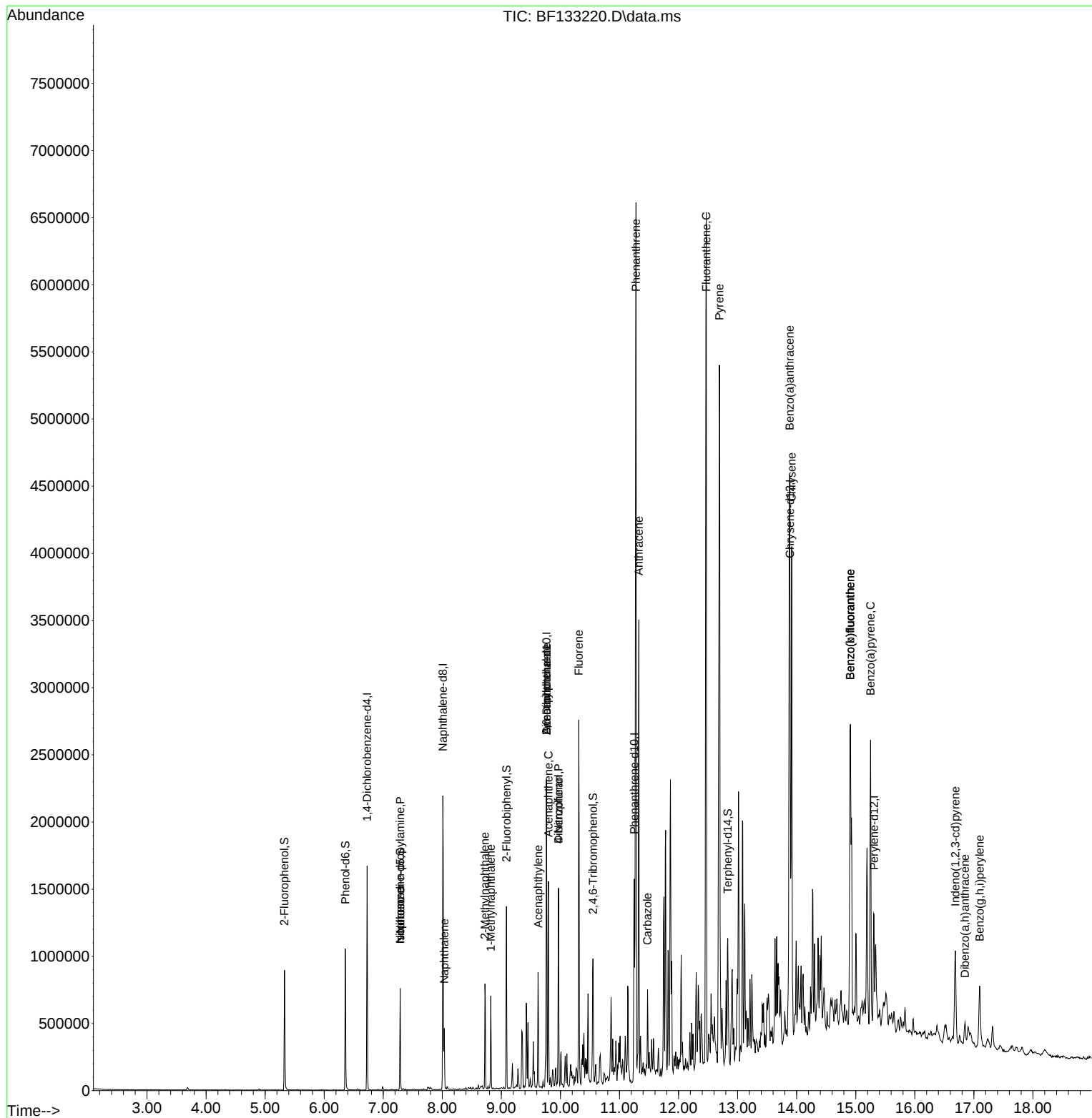
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.728	152	214229	20.000	ng	0.00
21) Naphthalene-d8	8.010	136	878666	20.000	ng	0.00
39) Acenaphthene-d10	9.763	164	421862	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	642134	20.000	ng	# 0.00
76) Chrysene-d12	13.886	240	401971	20.000	ng	0.00
86) Perylene-d12	15.310	264	370058	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.328	112	238072	16.787	ng	-0.01
7) Phenol-d6	6.357	99	301042	17.102	ng	-0.02
23) Nitrobenzene-d5	7.287	82	185066	11.369	ng	-0.01
42) 2,4,6-Tribromophenol	10.551	330	37533	8.847	ng	0.00
45) 2-Fluorobiphenyl	9.086	172	356770	14.149	ng	0.00
79) Terphenyl-d14	12.833	244	276483	11.863	ng	0.00
Target Compounds						
9) Benzaldehyde	6.281	77	267	Below Cal		Qvalue # 28
19) n-Nitroso-di-n-propyla...	7.287	70	24674	2.252	ng	# 79
25) Isophorone	7.287	82	185062	5.988	ng	# 63
31) Naphthalene	8.034	128	160825	3.661	ng	98
37) 2-Methylnaphthalene	8.722	142	199537	6.644	ng	97
38) 1-Methylnaphthalene	8.822	142	151332	5.386	ng	98
49) Acenaphthylene	9.622	152	267312	6.833	ng	99
50) Dimethylphthalate	9.763	163	81831	2.782	ng	# 1
51) 2,6-Dinitrotoluene	9.763	165	65196	9.847	ng	# 25
52) Acenaphthene	9.798	154	310709	11.858	ng	98
55) Dibenzofuran	9.969	168	431839	12.082	ng	99
56) 4-Nitrophenol	9.969	139	165122	27.082	ng	# 17
58) Fluorene	10.310	166	673168	25.707	ng	100
71) Phenanthrene	11.280	178	2753242	79.774	ng	98
72) Anthracene	11.327	178	1219442	34.526	ng	100
73) Carbazole	11.475	167	204733	6.510	ng	99
75) Fluoranthene	12.469	202	2805657	81.001	ng	98
78) Pyrene	12.692	202	2528156	73.369	ng	98
81) Benzo(a)anthracene	13.880	228	1584126	57.308	ng	95
83) Chrysene	13.916	228	1345786	48.698	ng	97
87) Indeno(1,2,3-cd)pyrene	16.686	276	409565	19.457	ng	93
88) Benzo(b)fluoranthene	14.910	252	1824752	77.508	ng	# 96
89) Benzo(k)fluoranthene	14.910	252	1824752	78.190	ng	# 96
90) Benzo(a)pyrene	15.251	252	931169	43.454	ng	98
91) Dibenzo(a,h)anthracene	16.851	278	102721	5.851	ng	95
92) Benzo(g,h,i)perylene	17.098	276	333873	19.263	ng	97

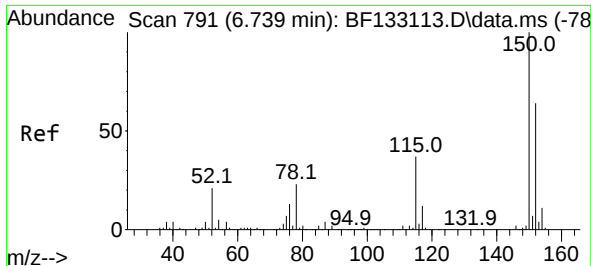
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050323\
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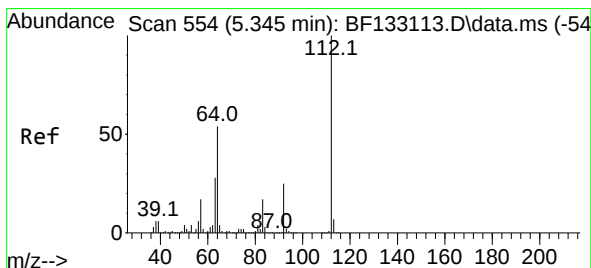
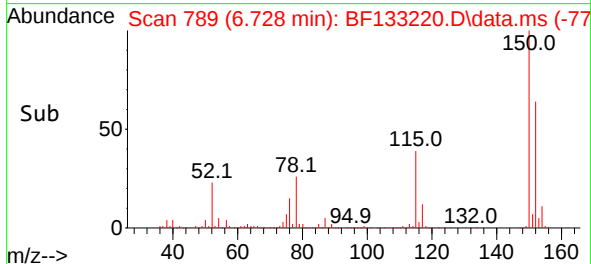
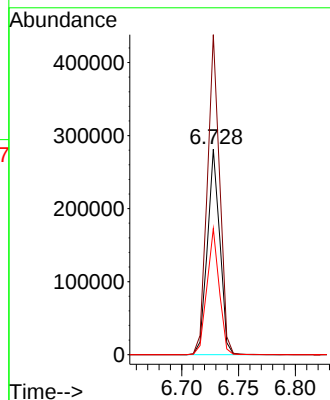
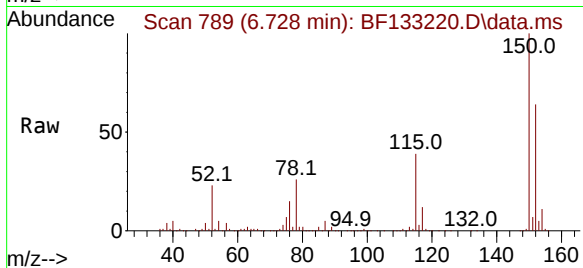




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.728 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: BF133220.D
 Acq: 03 May 2023 21:54

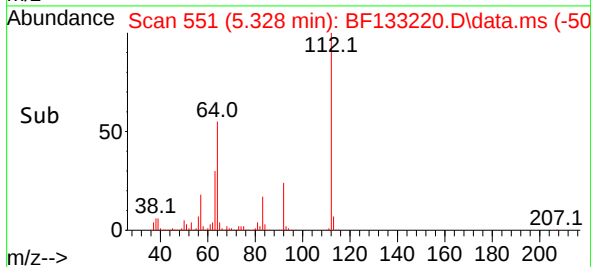
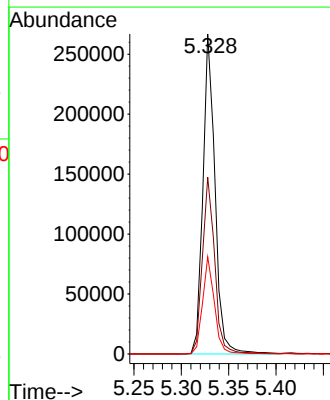
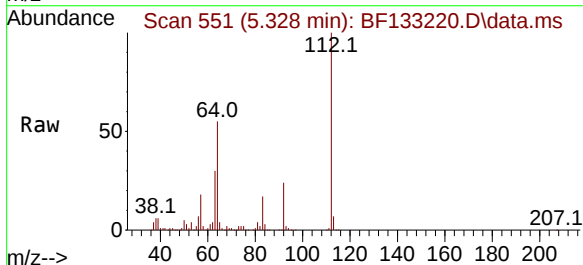
Instrument :
 BNA_F
 ClientSampleId :
 HD-02-050223

Tgt Ion:152 Resp: 214229
 Ion Ratio Lower Upper
 152 100
 150 155.7 124.8 187.2
 115 61.4 49.9 74.9



#5
 2-Fluorophenol
 Concen: 16.787 ng
 RT: 5.328 min Scan# 551
 Delta R.T. -0.012 min
 Lab File: BF133220.D
 Acq: 03 May 2023 21:54

Tgt Ion:112 Resp: 238072
 Ion Ratio Lower Upper
 112 100
 64 55.2 46.8 70.2
 63 30.4 23.8 35.8

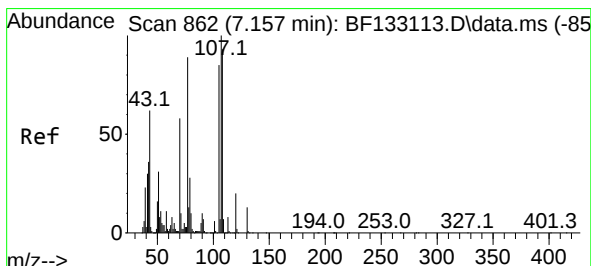
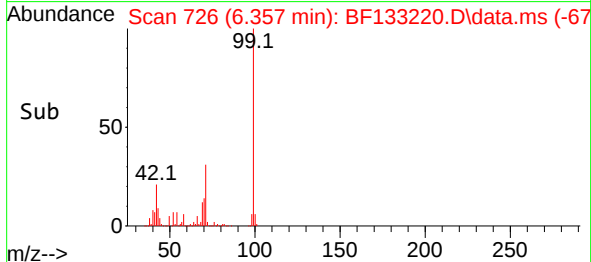
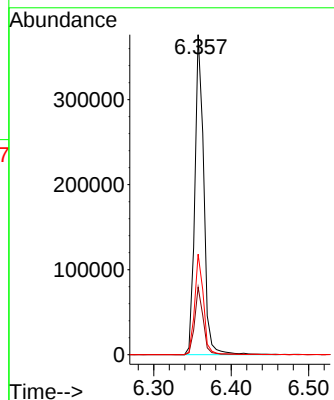
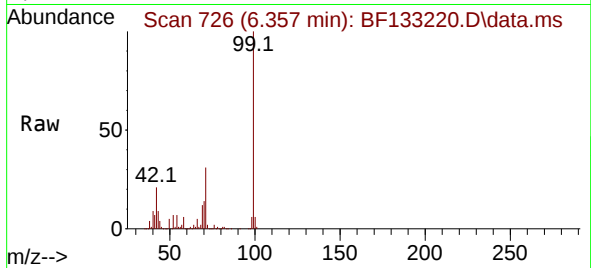




#7
Phenol-d6
Concen: 17.102 ng
RT: 6.357 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

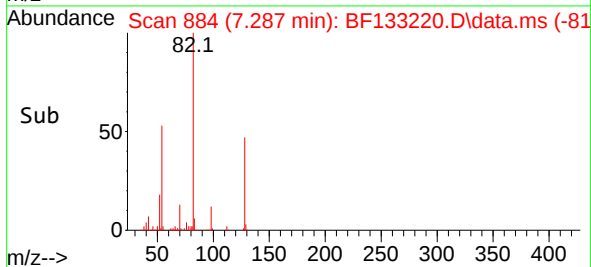
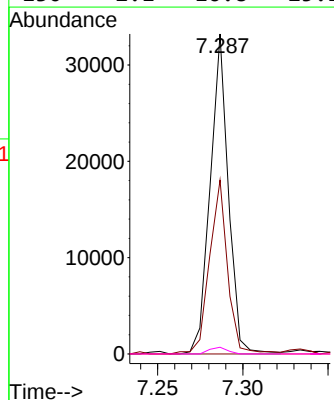
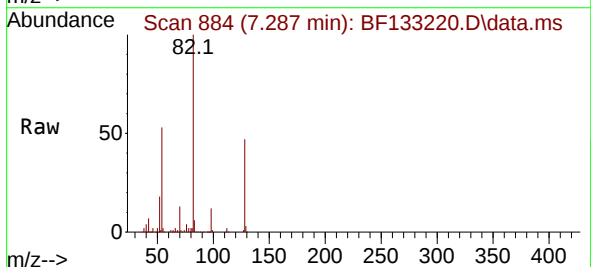
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

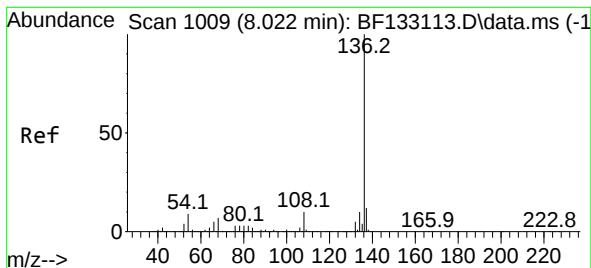
Tgt Ion: 99 Resp: 301042
Ion Ratio Lower Upper
99 100
42 21.1 16.3 24.5
71 31.4 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 2.252 ng
RT: 7.287 min Scan# 884
Delta R.T. 0.135 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion: 70 Resp: 24674
Ion Ratio Lower Upper
70 100
42 54.4 51.8 77.6
101 0.0 8.0 12.0#
130 2.1 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.010 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

Tgt Ion:136 Resp: 878666

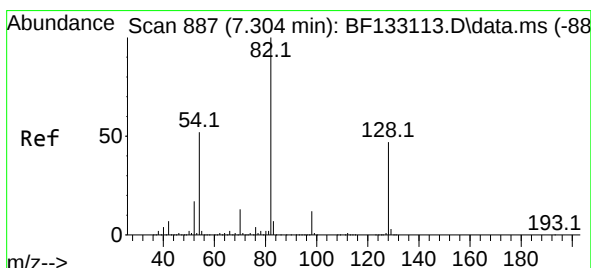
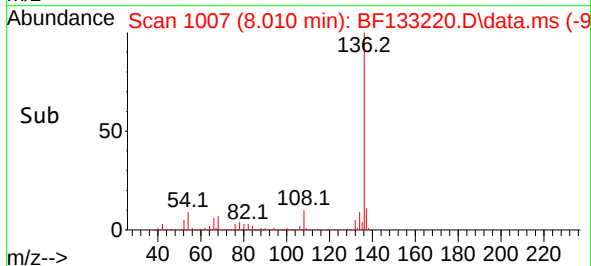
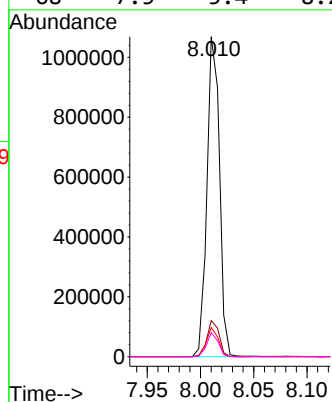
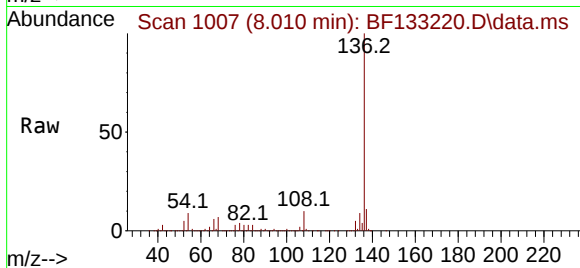
Ion Ratio Lower Upper

136 100

137 11.2 8.6 13.0

54 9.1 7.0 10.4

68 7.5 5.4 8.2



#23

Nitrobenzene-d5

Concen: 11.369 ng

RT: 7.287 min Scan# 884

Delta R.T. -0.012 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

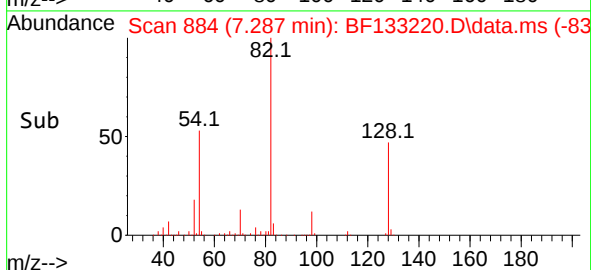
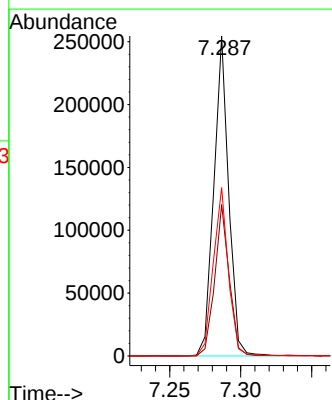
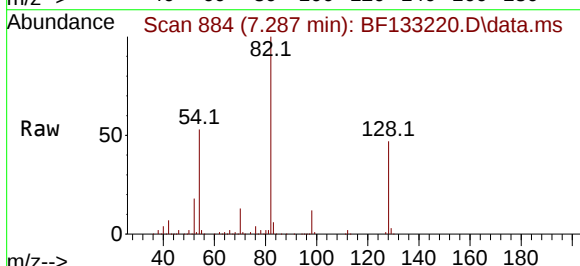
Tgt Ion: 82 Resp: 185066

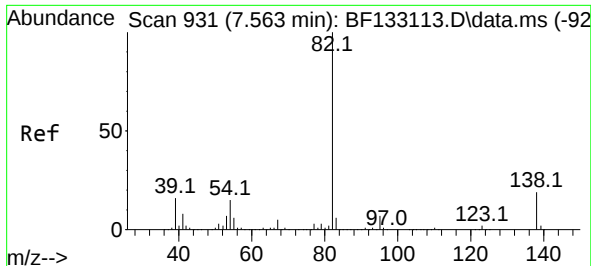
Ion Ratio Lower Upper

82 100

128 47.3 37.7 56.5

54 52.6 43.0 64.4

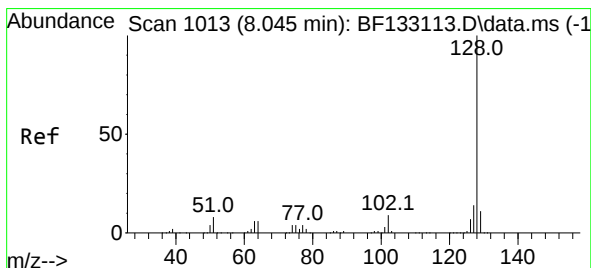
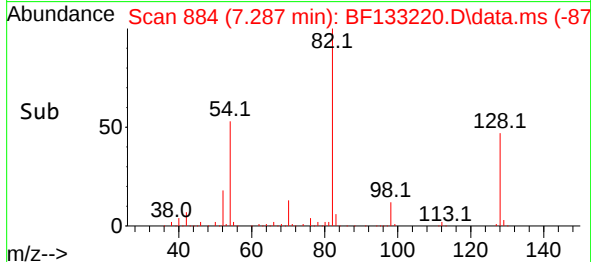
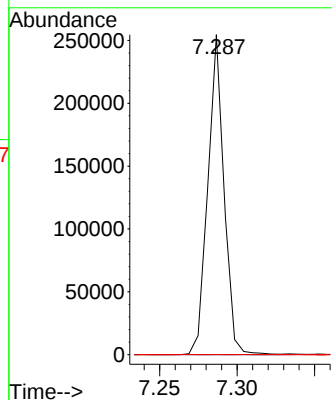
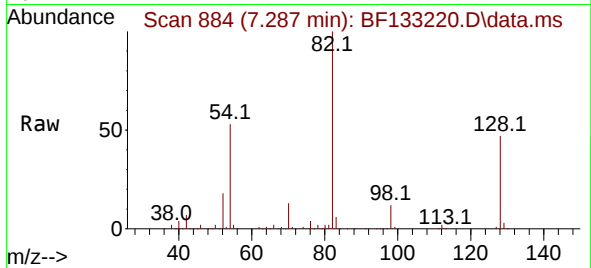




#25
Isophorone
Concen: 5.988 ng
RT: 7.287 min Scan# 81
Delta R.T. -0.271 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

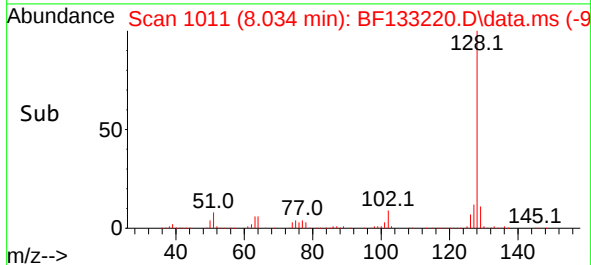
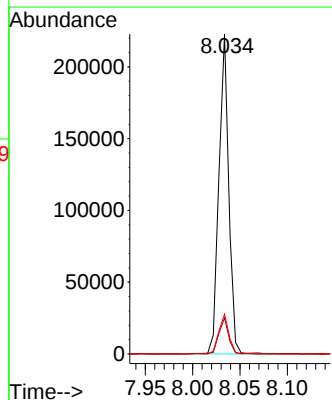
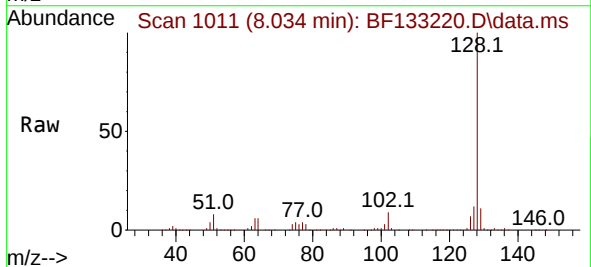
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

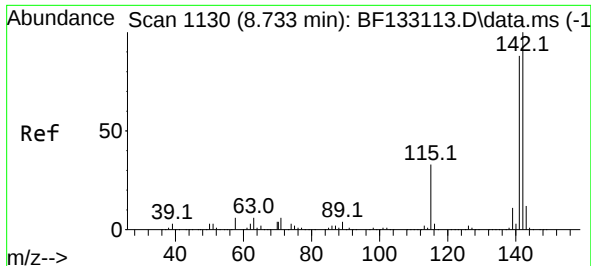
Tgt Ion: 82 Resp: 185062
Ion Ratio Lower Upper
82 100
95 0.1 5.4 8.0#
138 0.0 16.0 24.0#



#31
Naphthalene
Concen: 3.661 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion: 128 Resp: 160825
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 12.5 10.7 16.1





#37

2-Methylnaphthalene

Concen: 6.644 ng

RT: 8.722 min Scan# 1128

Delta R.T. -0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

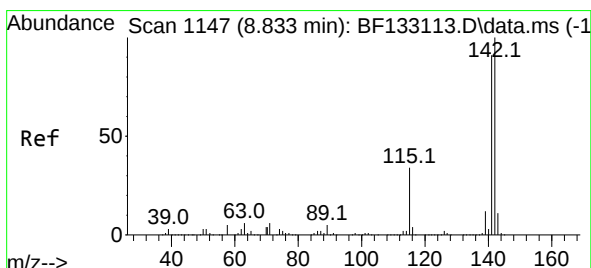
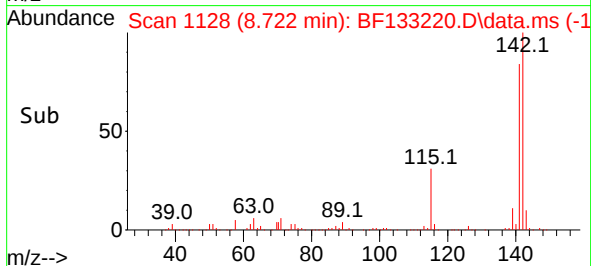
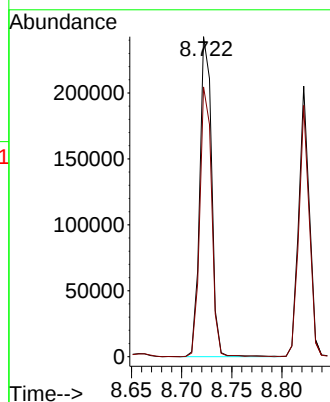
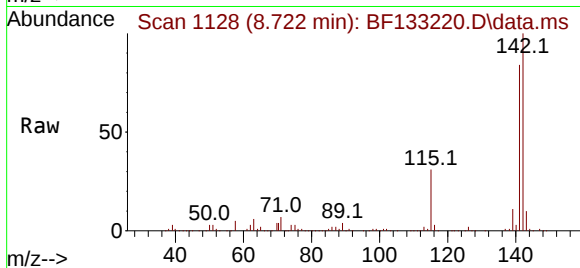
HD-02-050223

Tgt Ion:142 Resp: 199537

Ion Ratio Lower Upper

142 100

141 84.3 69.4 104.0



#38

1-Methylnaphthalene

Concen: 5.386 ng

RT: 8.822 min Scan# 1145

Delta R.T. -0.006 min

Lab File: BF133220.D

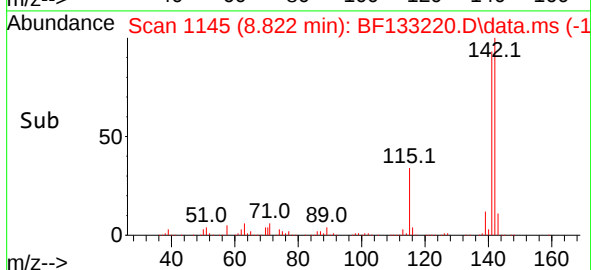
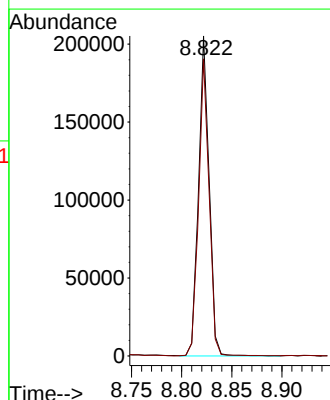
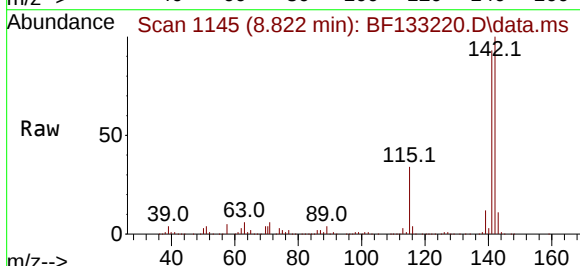
Acq: 03 May 2023 21:54

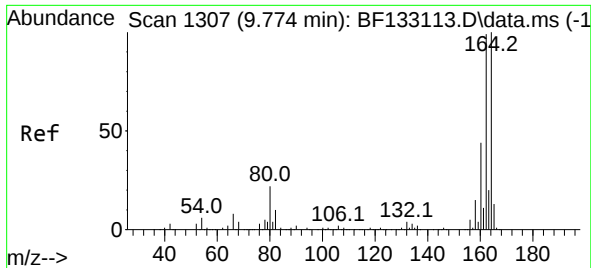
Tgt Ion:142 Resp: 151332

Ion Ratio Lower Upper

142 100

141 92.8 73.1 109.7

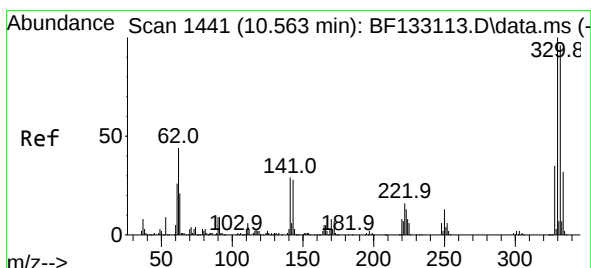
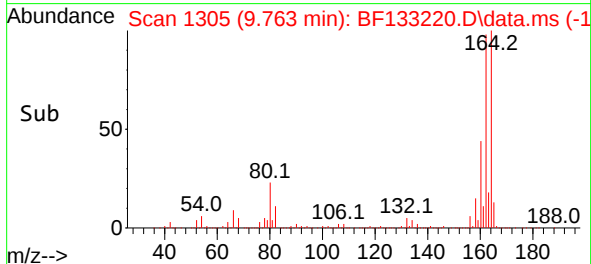
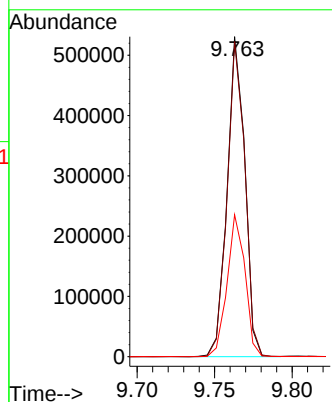
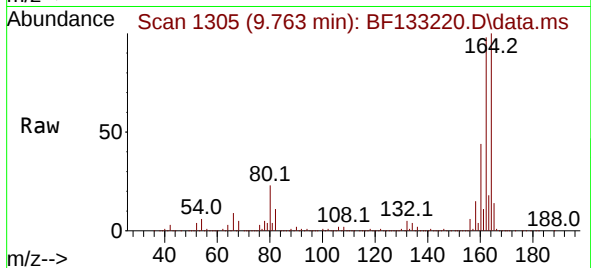




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.763 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

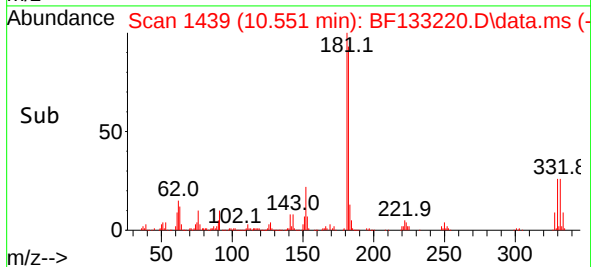
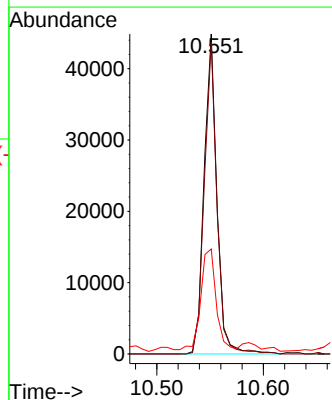
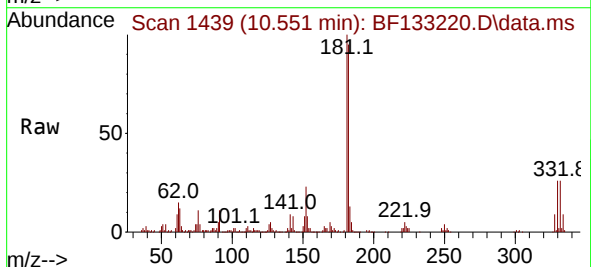
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

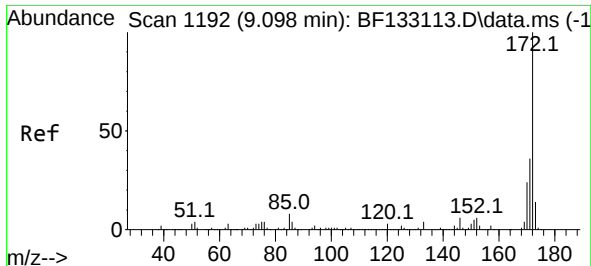
Tgt Ion:164 Resp: 421862
Ion Ratio Lower Upper
164 100
162 98.4 78.7 118.1
160 44.3 35.8 53.6



#42
2,4,6-Tribromophenol
Concen: 8.847 ng
RT: 10.551 min Scan# 1439
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:330 Resp: 37533
Ion Ratio Lower Upper
330 100
332 96.1 77.1 115.7
141 37.1 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 14.149 ng

RT: 9.086 min Scan# 1192

Delta R.T. -0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

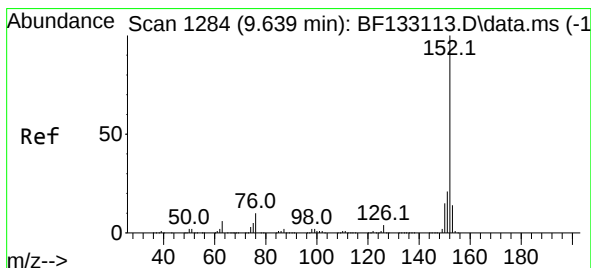
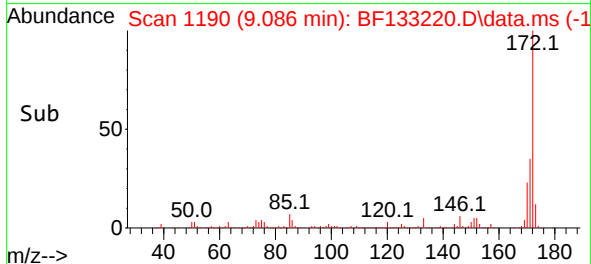
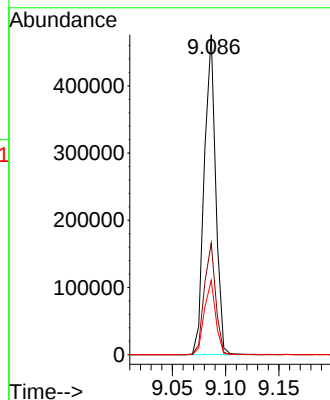
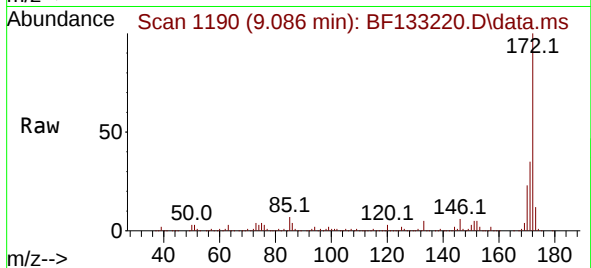
Tgt Ion:172 Resp: 356770

Ion Ratio Lower Upper

172 100

171 34.9 28.8 43.2

170 23.2 19.4 29.2



#49

Acenaphthylene

Concen: 6.833 ng

RT: 9.622 min Scan# 1281

Delta R.T. -0.012 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

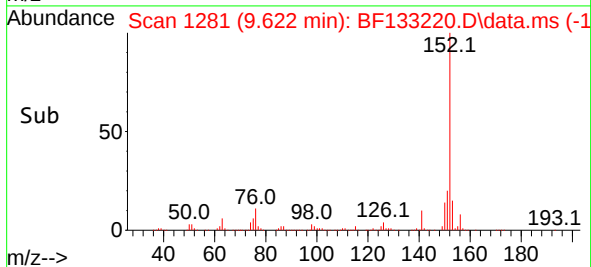
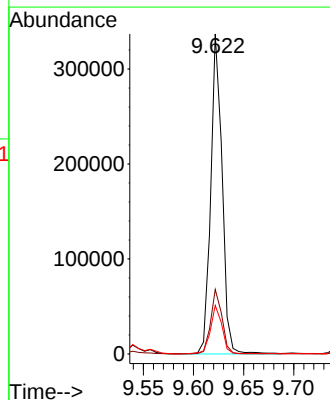
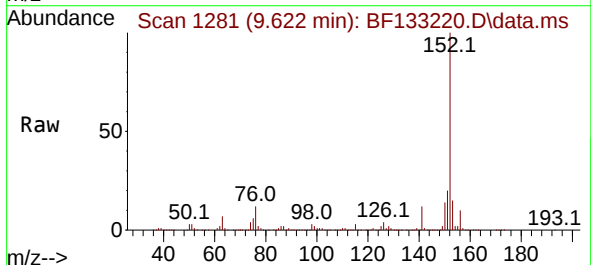
Tgt Ion:152 Resp: 267312

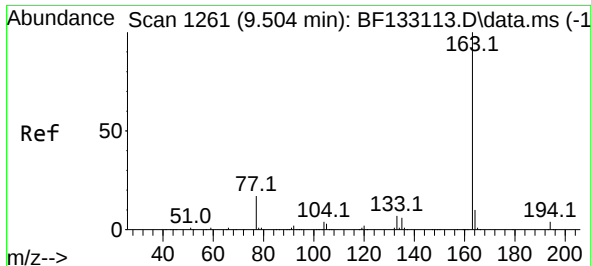
Ion Ratio Lower Upper

152 100

151 20.2 16.6 24.8

153 15.1 11.5 17.3

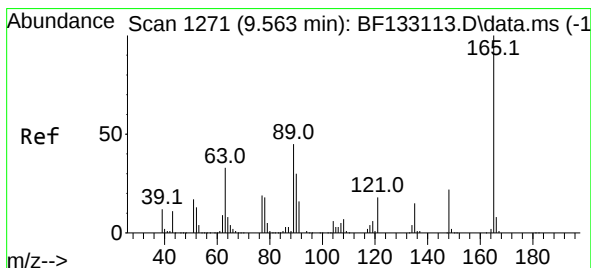
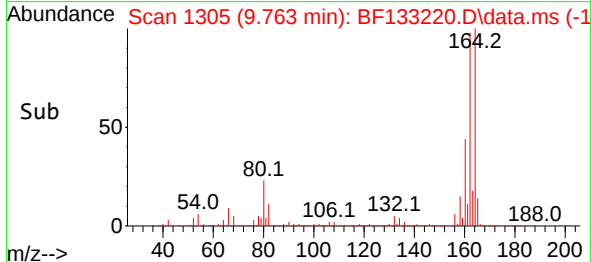
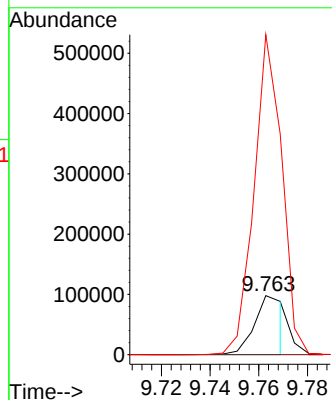
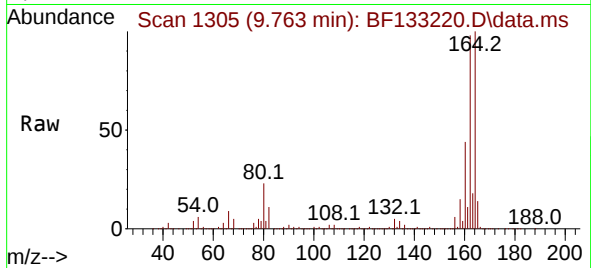




#50
Dimethylphthalate
Concen: 2.782 ng
RT: 9.763 min Scan# 11
Delta R.T. 0.264 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

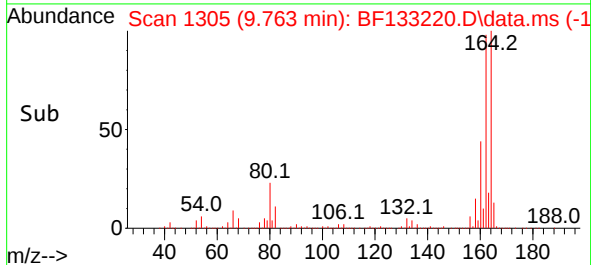
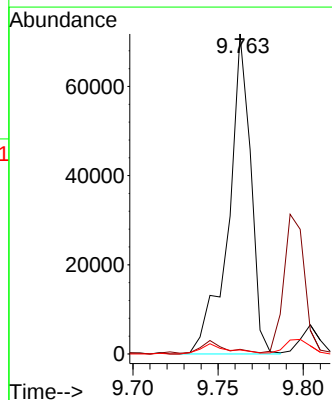
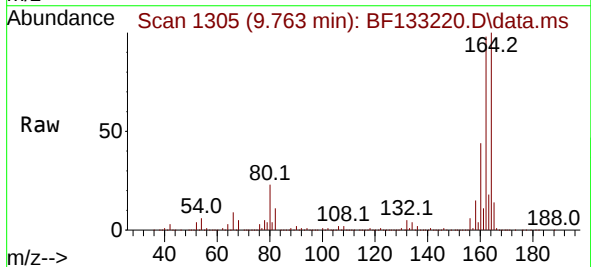
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

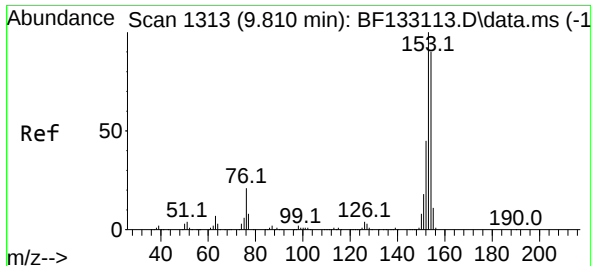
Tgt Ion:163 Resp: 81831
Ion Ratio Lower Upper
163 100
194 0.0 3.1 4.7#
164 542.5 8.5 12.7#



#51
2,6-Dinitrotoluene
Concen: 9.847 ng
RT: 9.763 min Scan# 1305
Delta R.T. 0.206 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:165 Resp: 65196
Ion Ratio Lower Upper
165 100
63 1.4 45.9 68.9#
89 1.2 44.0 66.0#

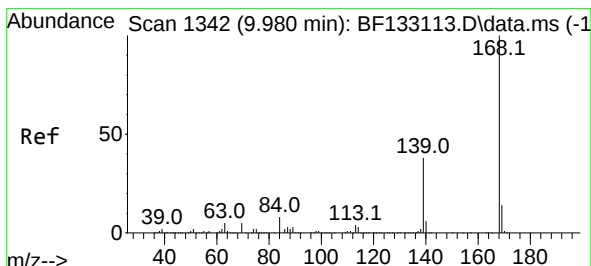
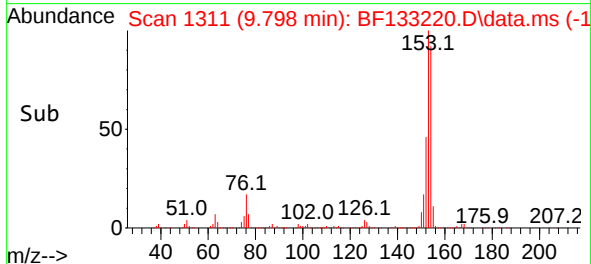
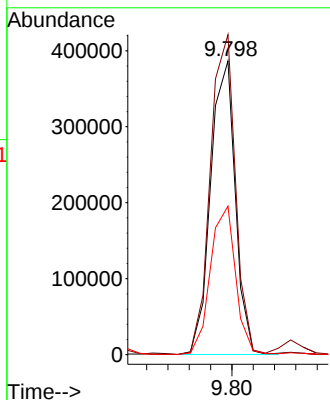
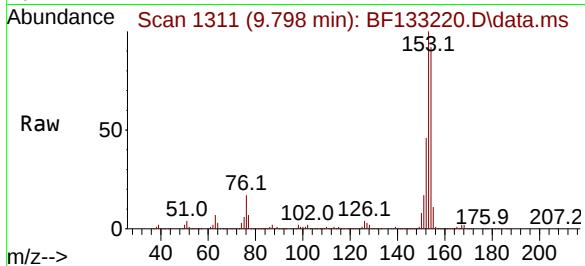




#52
Acenaphthene
Concen: 11.858 ng
RT: 9.798 min Scan# 1311
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

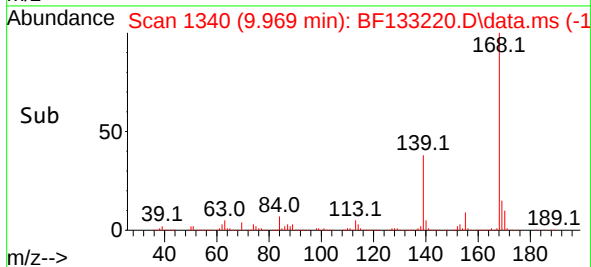
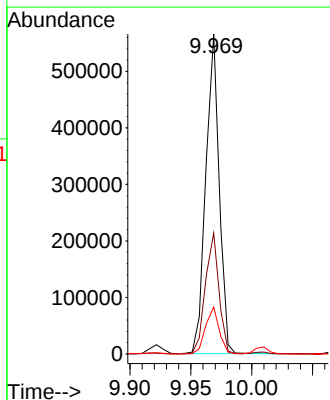
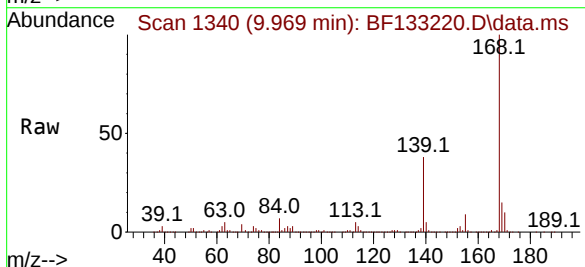
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

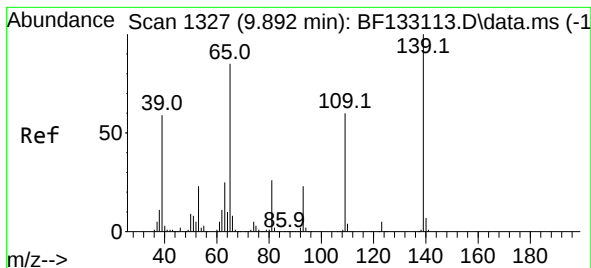
Tgt Ion:154 Resp: 310709
Ion Ratio Lower Upper
154 100
153 108.9 89.0 133.6
152 50.5 40.4 60.6



#55
Dibenzofuran
Concen: 12.082 ng
RT: 9.969 min Scan# 1340
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:168 Resp: 431839
Ion Ratio Lower Upper
168 100
139 37.8 29.8 44.8
169 14.7 10.8 16.2

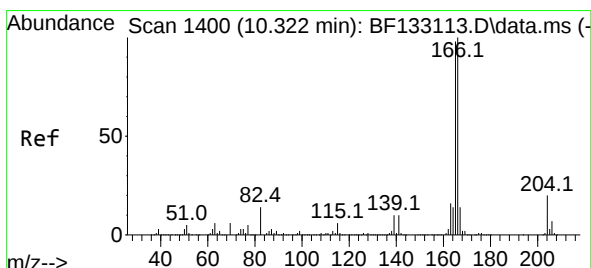
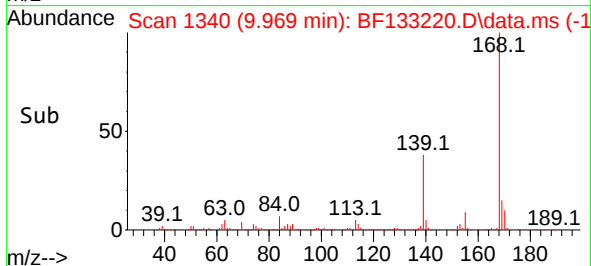
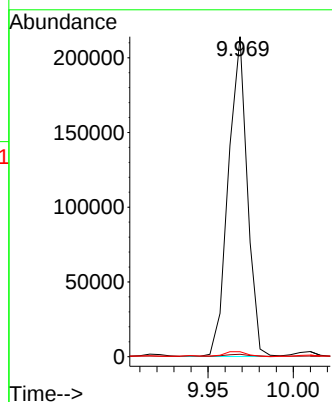
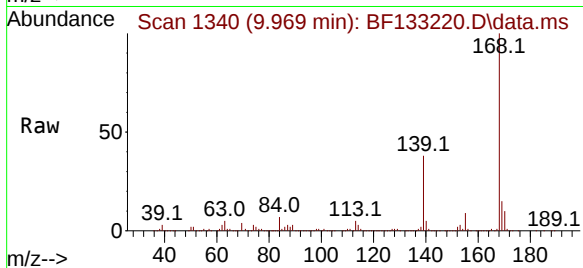




#56
4-Nitrophenol
Concen: 27.082 ng
RT: 9.969 min Scan# 1340
Delta R.T. 0.082 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

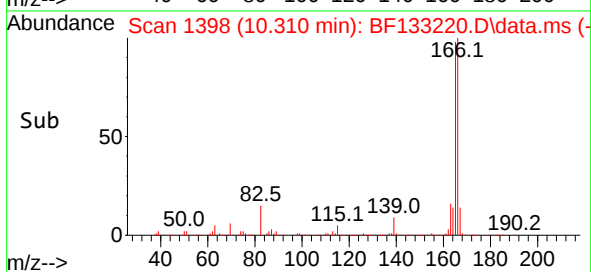
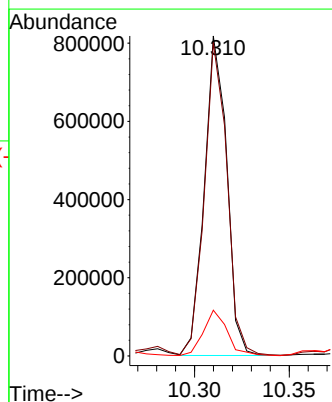
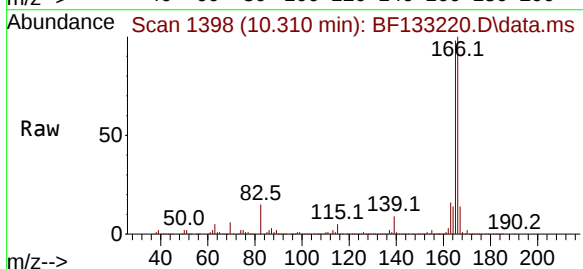
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

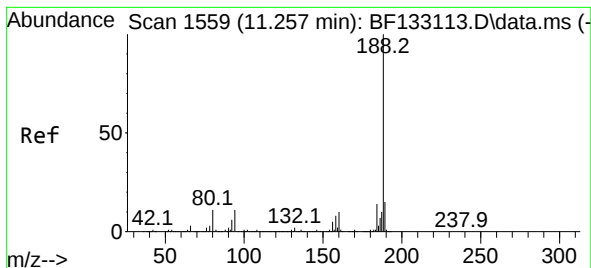
Tgt Ion:139 Resp: 165122
Ion Ratio Lower Upper
139 100
109 0.7 39.4 79.4#
65 1.6 57.5 97.5#



#58
Fluorene
Concen: 25.707 ng
RT: 10.310 min Scan# 1398
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:166 Resp: 673168
Ion Ratio Lower Upper
166 100
165 97.9 78.6 117.8
167 14.3 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.251 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

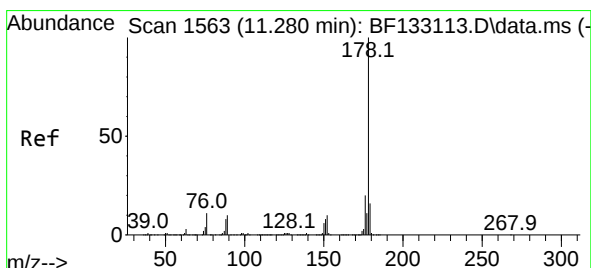
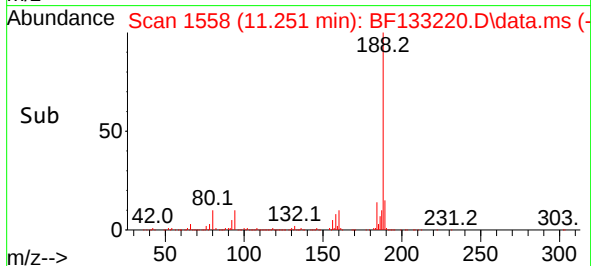
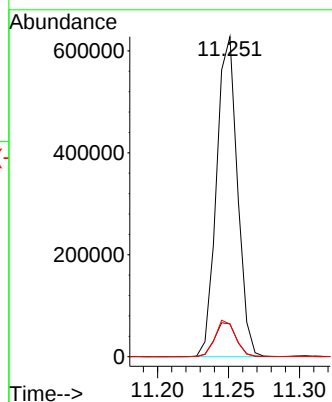
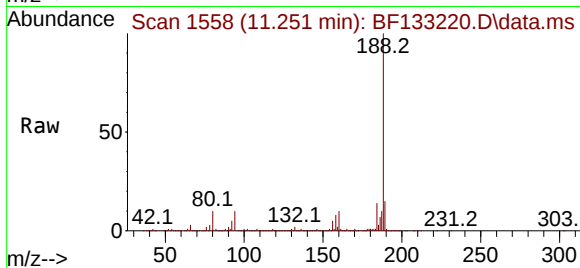
Tgt Ion:188 Resp: 642134

Ion Ratio Lower Upper

188 100

94 10.3 9.7 14.5

80 10.2 10.4 15.6#



#71

Phenanthrene

Concen: 79.774 ng

RT: 11.280 min Scan# 1563

Delta R.T. 0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

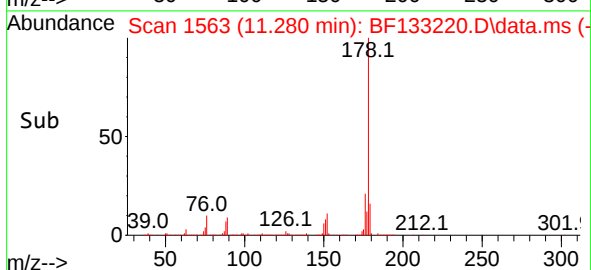
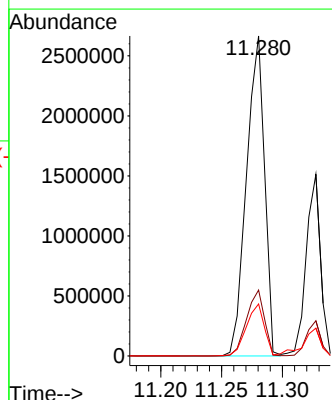
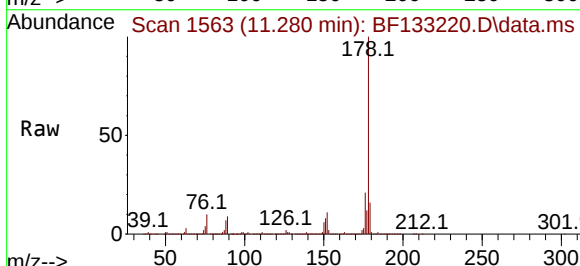
Tgt Ion:178 Resp: 2753242

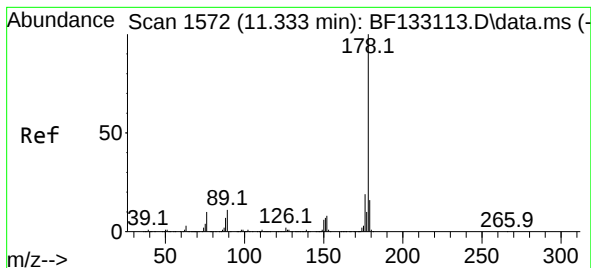
Ion Ratio Lower Upper

178 100

176 20.6 15.9 23.9

179 16.2 12.5 18.7





#72

Anthracene

Concen: 34.526 ng

RT: 11.327 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

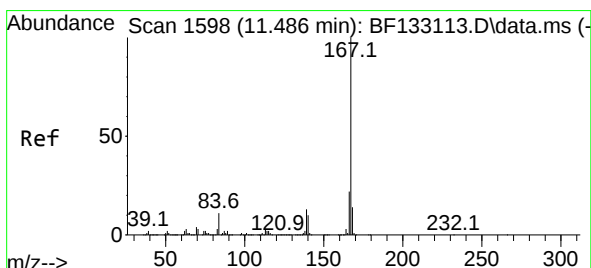
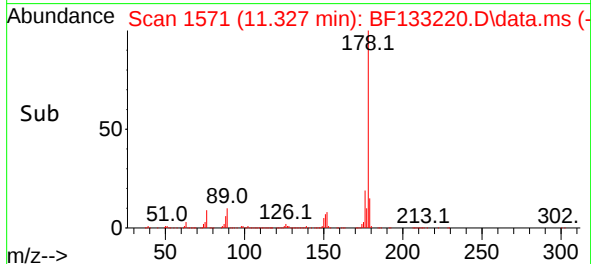
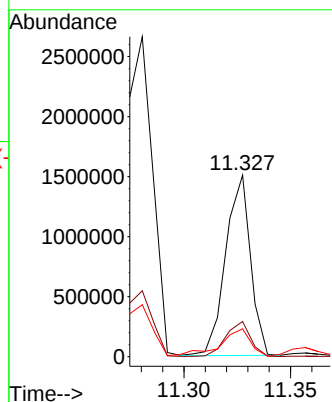
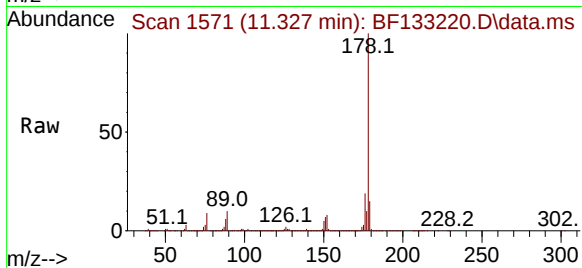
Tgt Ion:178 Resp: 1219442

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

179 15.3 12.4 18.6



#73

Carbazole

Concen: 6.510 ng

RT: 11.475 min Scan# 1596

Delta R.T. -0.012 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

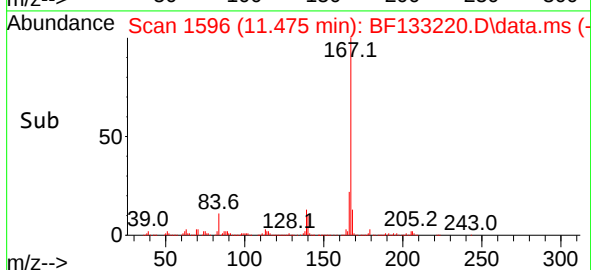
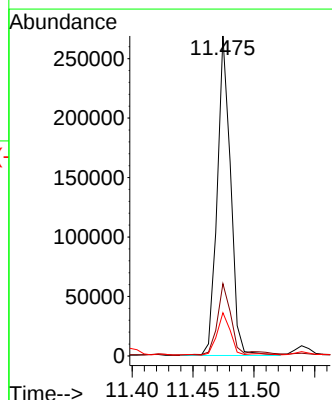
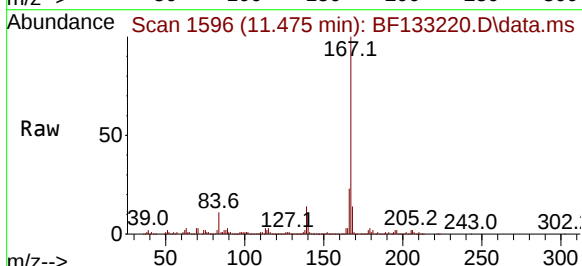
Tgt Ion:167 Resp: 204733

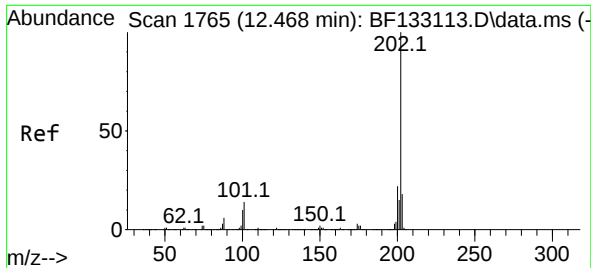
Ion Ratio Lower Upper

167 100

166 22.6 17.4 26.0

139 13.5 10.6 16.0

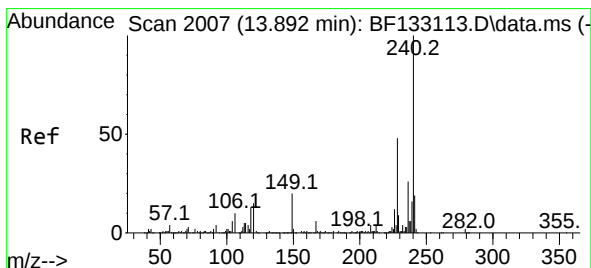
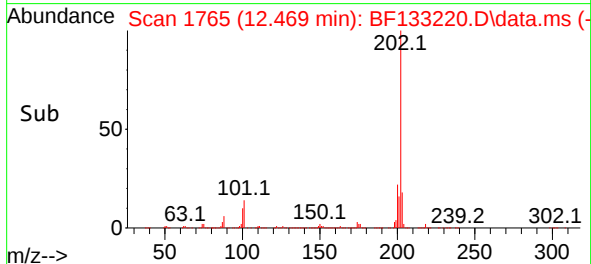
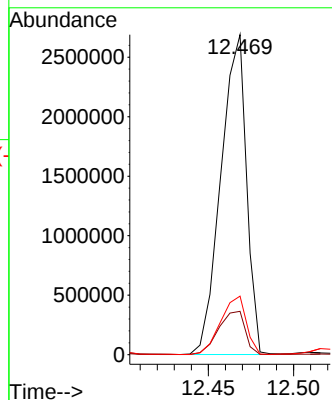
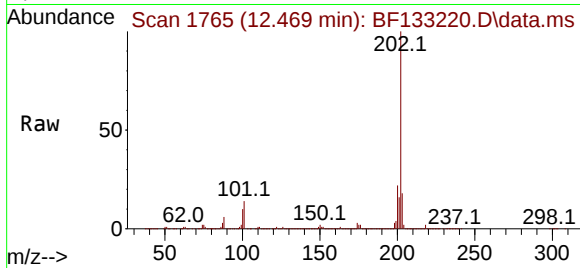




#75
Fluoranthene
Concen: 81.001 ng
RT: 12.469 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

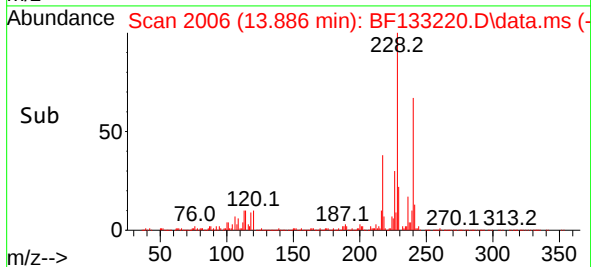
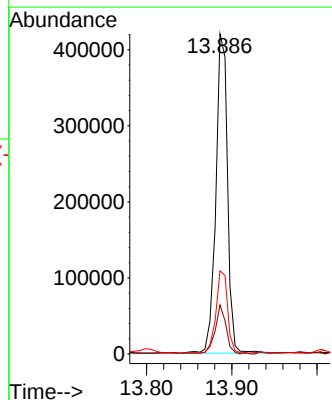
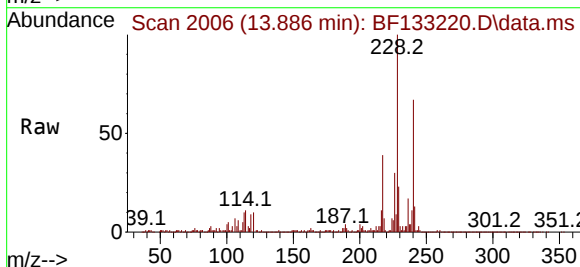
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

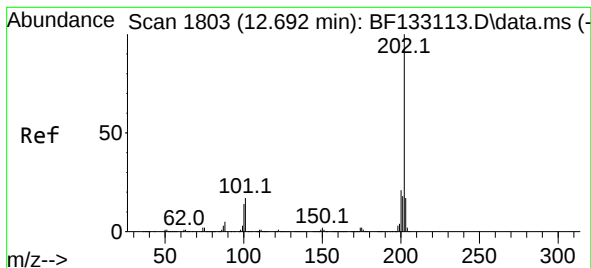
Tgt Ion:202 Resp: 2805657
Ion Ratio Lower Upper
202 100
101 13.6 0.0 35.3
203 18.3 0.0 38.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.886 min Scan# 2006
Delta R.T. -0.006 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:240 Resp: 401971
Ion Ratio Lower Upper
240 100
120 15.3 10.5 15.7
236 26.0 21.5 32.3





#78

Pyrene

Concen: 73.369 ng

RT: 12.692 min Scan# 1803

Delta R.T. -0.000 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

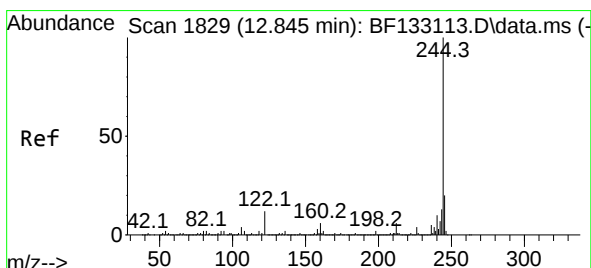
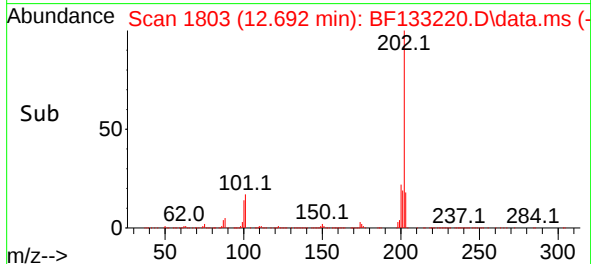
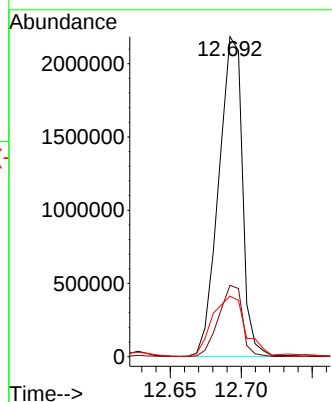
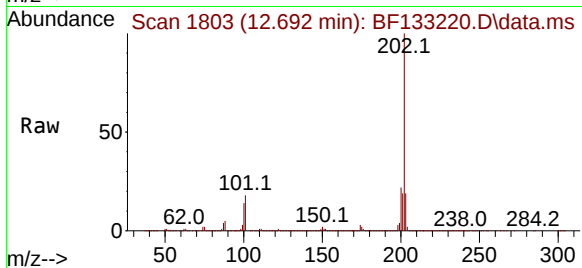
BNA_F

ClientSampleId :

HD-02-050223

Tgt Ion:202 Resp: 2528156

Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.1	25.7
203	18.9	14.1	21.1



#79

Terphenyl-d14

Concen: 11.863 ng

RT: 12.833 min Scan# 1827

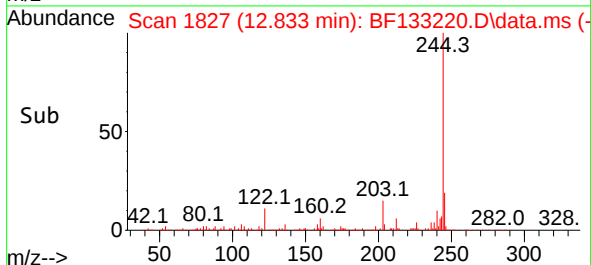
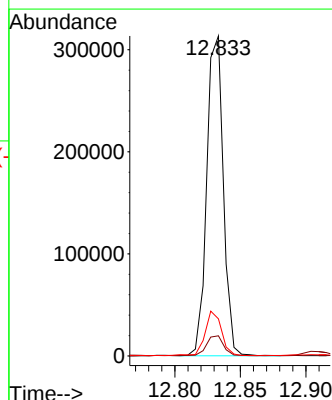
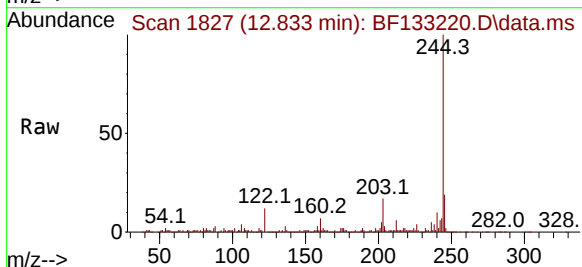
Delta R.T. -0.006 min

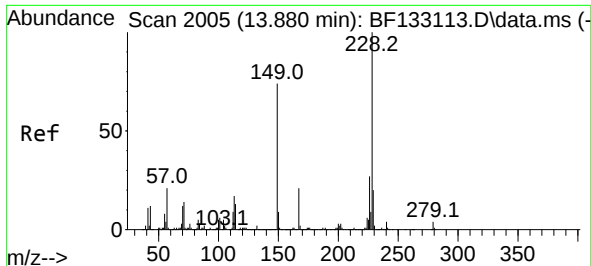
Lab File: BF133220.D

Acq: 03 May 2023 21:54

Tgt Ion:244 Resp: 276483

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.1	7.7
122	11.6	8.6	13.0

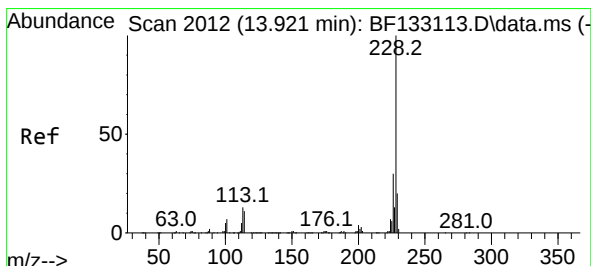
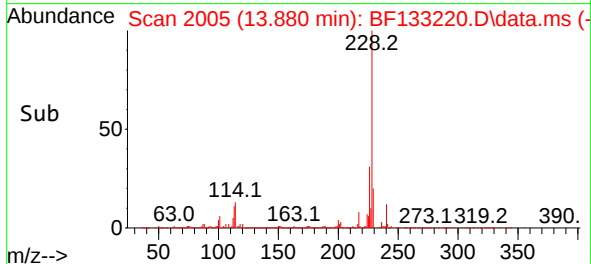
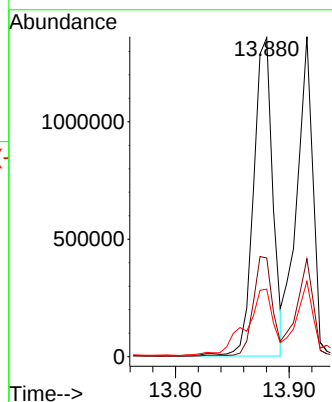
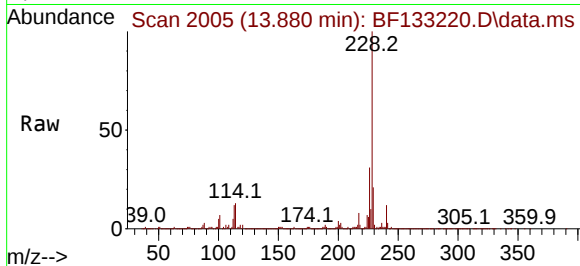




#81
Benzo(a)anthracene
Concen: 57.308 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.000 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

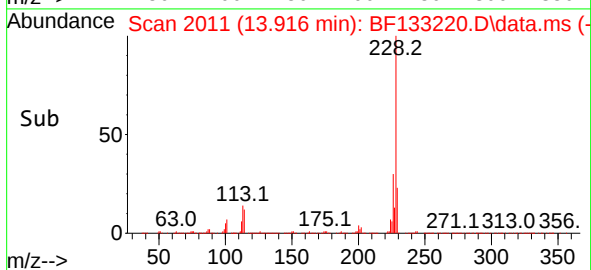
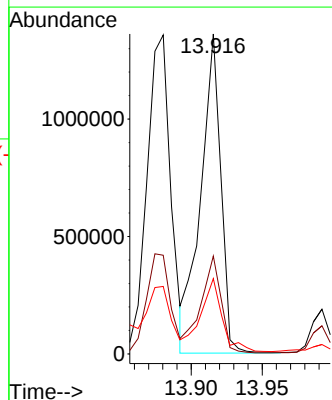
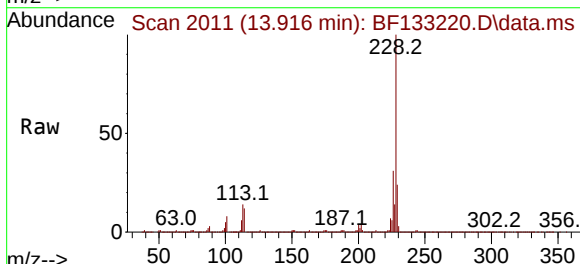
Instrument :
BNA_F
ClientSampleId :
HD-02-050223

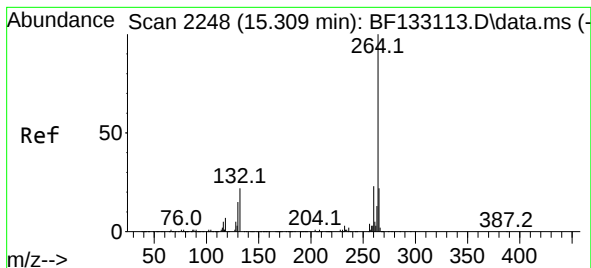
Tgt Ion:228 Resp: 1584126
Ion Ratio Lower Upper
228 100
226 31.0 22.2 33.4
229 21.2 16.0 24.0



#83
Chrysene
Concen: 48.698 ng
RT: 13.916 min Scan# 2011
Delta R.T. -0.000 min
Lab File: BF133220.D
Acq: 03 May 2023 21:54

Tgt Ion:228 Resp: 1345786
Ion Ratio Lower Upper
228 100
226 30.6 24.7 37.1
229 23.6 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.310 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

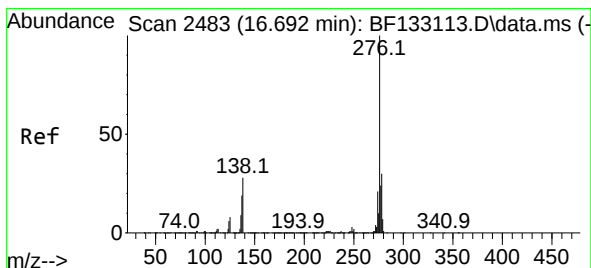
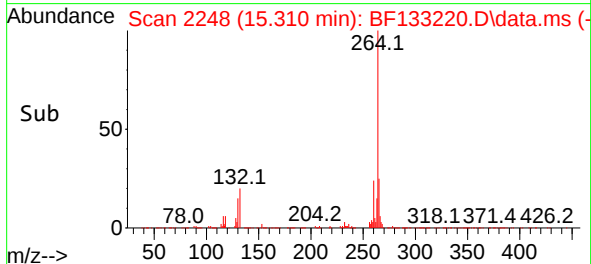
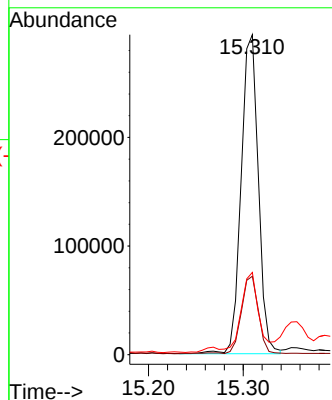
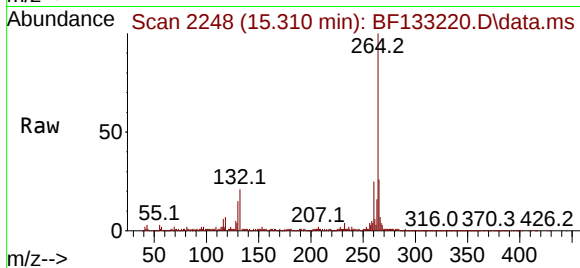
Tgt Ion:264 Resp: 370058

Ion Ratio Lower Upper

264 100

260 24.5 18.8 28.2

265 25.7 17.0 25.4#



#87

Indeno(1,2,3-cd)pyrene

Concen: 19.457 ng

RT: 16.686 min Scan# 2482

Delta R.T. -0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

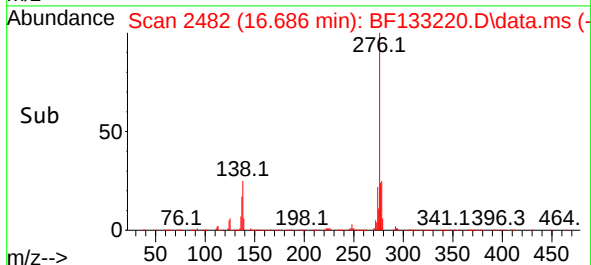
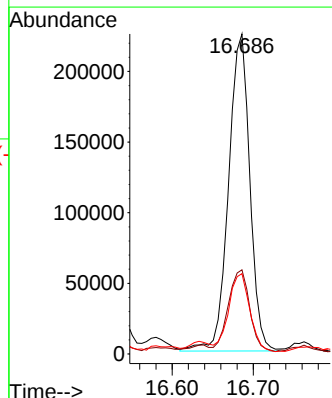
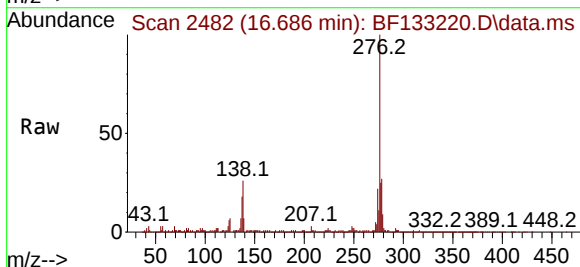
Tgt Ion:276 Resp: 409565

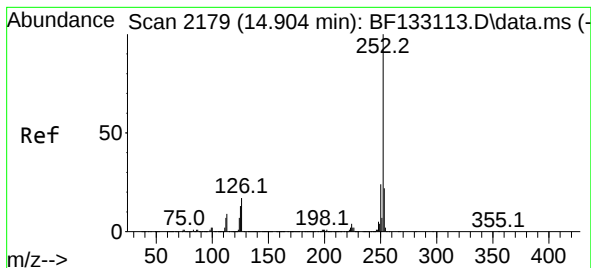
Ion Ratio Lower Upper

276 100

138 25.8 25.5 38.3

277 24.3 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 77.508 ng

RT: 14.910 min Scan# 2180

Delta R.T. 0.006 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

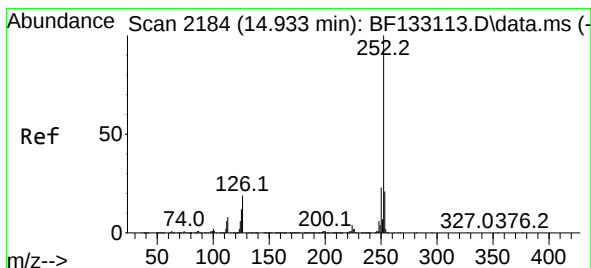
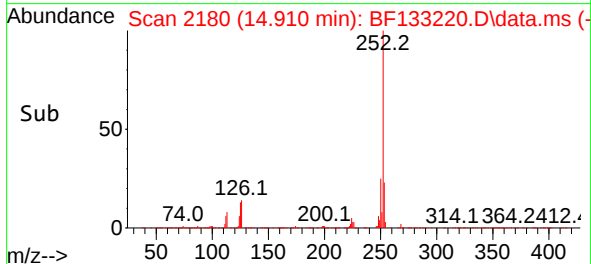
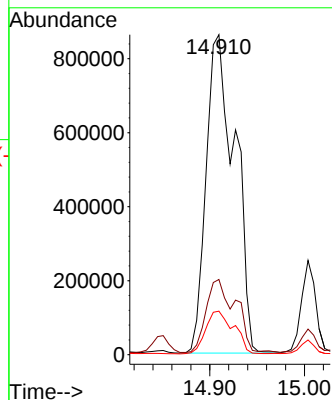
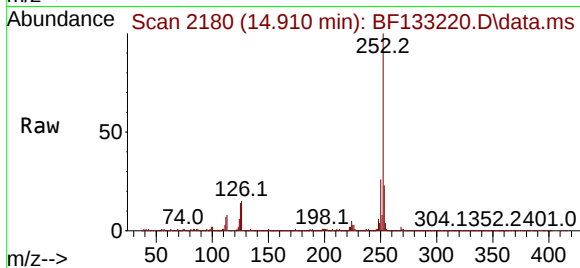
Tgt Ion:252 Resp: 1824752

Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

125 13.6 8.9 13.3#



#89

Benzo(k)fluoranthene

Concen: 78.190 ng

RT: 14.910 min Scan# 2180

Delta R.T. -0.024 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

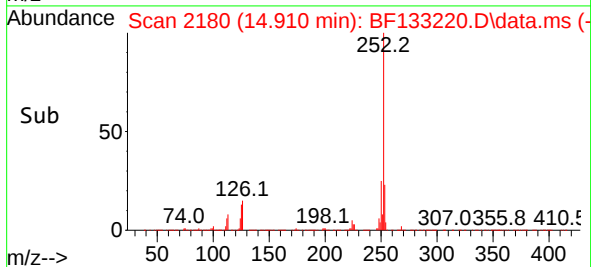
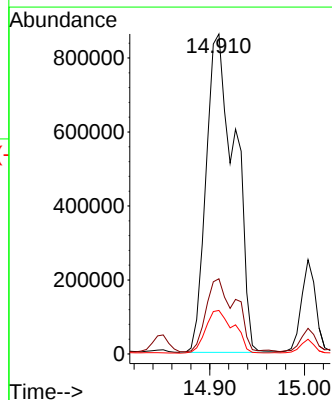
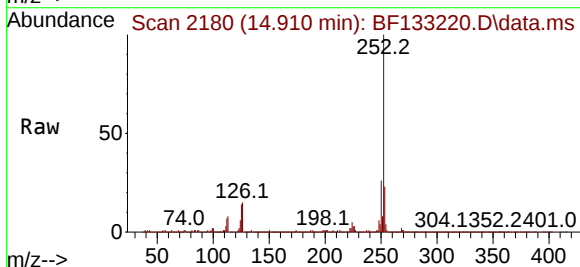
Tgt Ion:252 Resp: 1824752

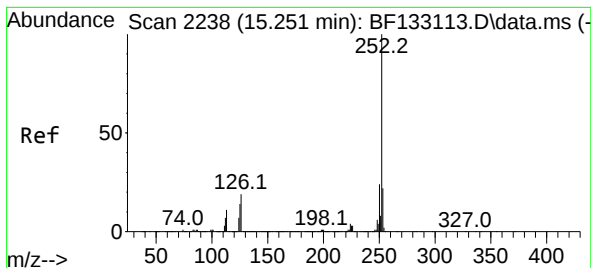
Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 13.6 9.0 13.4#





#90

Benzo(a)pyrene

Concen: 43.454 ng

RT: 15.251 min Scan# 2510

Delta R.T. -0.000 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223

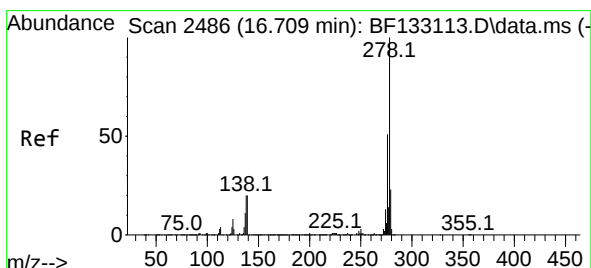
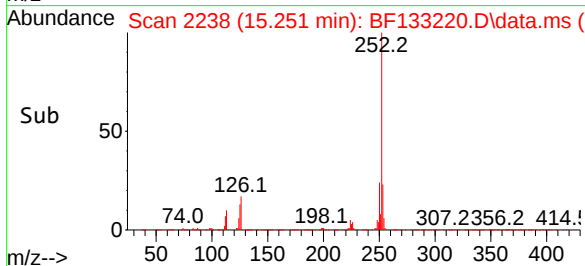
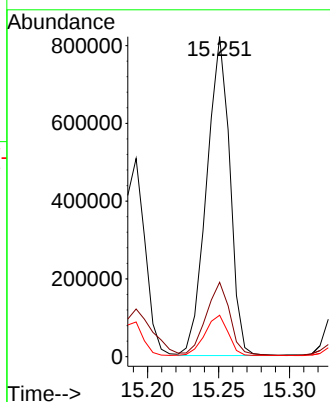
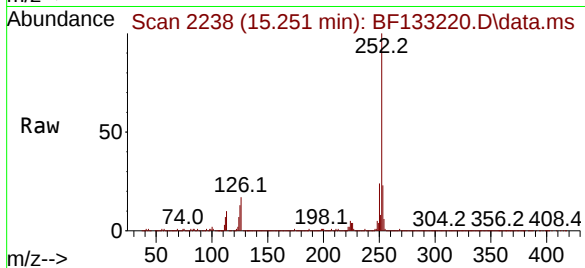
Tgt Ion:252 Resp: 931169

Ion Ratio Lower Upper

252 100

253 23.3 17.7 26.5

125 13.0 10.5 15.7



#91

Dibenzo(a,h)anthracene

Concen: 5.851 ng

RT: 16.851 min Scan# 2510

Delta R.T. 0.147 min

Lab File: BF133220.D

Acq: 03 May 2023 21:54

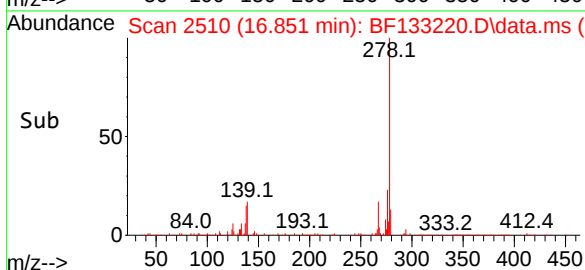
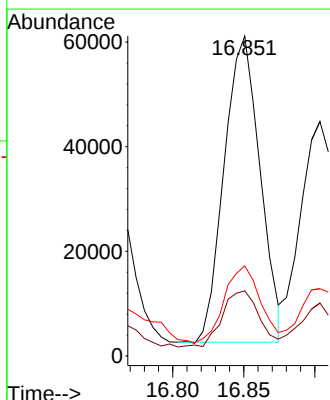
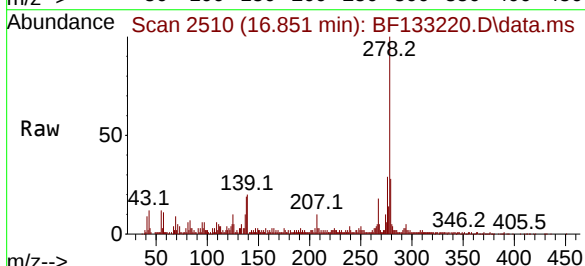
Tgt Ion:278 Resp: 102721

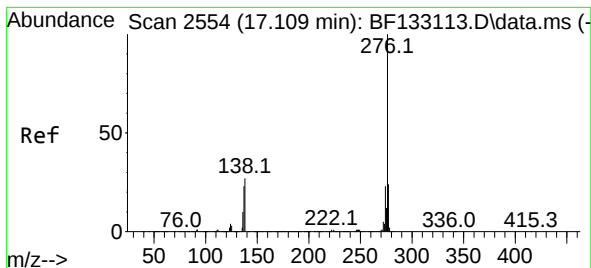
Ion Ratio Lower Upper

278 100

139 20.4 16.6 24.8

279 28.1 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 19.263 ng

RT: 17.098 min Scan# 2

Delta R.T. -0.006 min

Lab File: BF133220.D

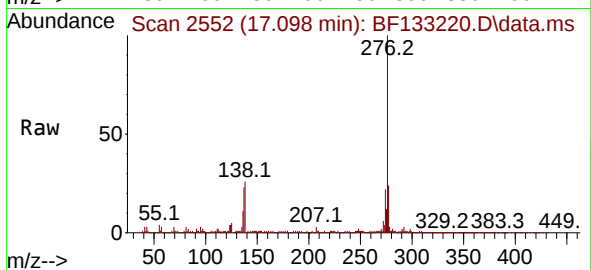
Acq: 03 May 2023 21:54

Instrument :

BNA_F

ClientSampleId :

HD-02-050223



Tgt Ion:276 Resp: 333873

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.0

138 25.8 22.7 34.1

