

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050223\
 Data File : BF133197.D
 Acq On : 02 May 2023 19:24
 Operator : CG\JU
 Sample : 02562-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-04282023DL

Quant Time: May 03 05:55:04 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 04:52:44 2023
 Response via : Initial Calibration

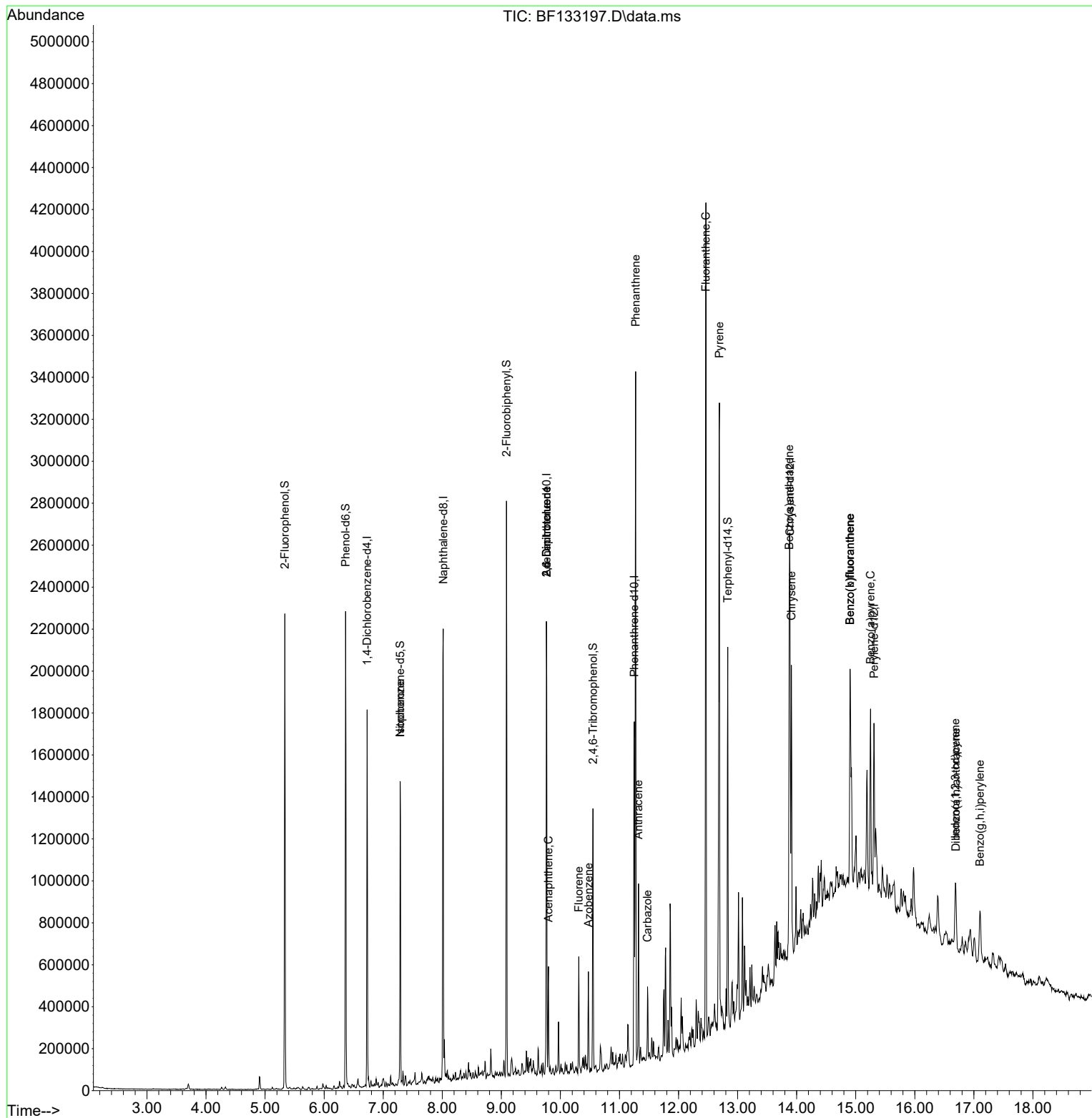
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.728	152	235427	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	900526	20.000	ng	0.00
39) Acenaphthene-d10	9.763	164	426064	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	624503	20.000	ng	0.00
76) Chrysene-d12	13.886	240	410335	20.000	ng	0.00
86) Perylene-d12	15.310	264	347202	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	592288	38.004	ng	0.00
7) Phenol-d6	6.363	99	707040	36.551	ng	-0.01
23) Nitrobenzene-d5	7.287	82	408676	24.496	ng	-0.01
42) 2,4,6-Tribromophenol	10.551	330	122494	28.587	ng	-0.01
45) 2-Fluorobiphenyl	9.086	172	742270	29.146	ng	-0.01
79) Terphenyl-d14	12.833	244	555950	23.367	ng	0.00
Target Compounds						
9) Benzaldehyde	6.287	77	732	Below Cal		Qvalue
25) Isophorone	7.287	82	404644	12.774	ng	# 63
51) 2,6-Dinitrotoluene	9.763	165	58349	8.726	ng	# 25
52) Acenaphthene	9.798	154	101740	3.845	ng	# 98
57) 2,4-Dinitrotoluene	9.763	165	58349	6.843	ng	# 24
58) Fluorene	10.310	166	134688	5.093	ng	# 99
63) Azobenzene	10.475	77	63092	2.122	ng	# 1
71) Phenanthrene	11.275	178	1154957	34.409	ng	100
72) Anthracene	11.322	178	280043	8.153	ng	99
73) Carbazole	11.475	167	129700	4.240	ng	99
75) Fluoranthene	12.463	202	1469838	43.633	ng	99
78) Pyrene	12.692	202	1296184	36.849	ng	100
81) Benzo(a)anthracene	13.874	228	592152	20.985	ng	98
83) Chrysene	13.910	228	518932	18.395	ng	97
87) Indeno(1,2,3-cd)pyrene	16.686	276	213238	10.797	ng	92
88) Benzo(b)fluoranthene	14.904	252	738487	33.433	ng	# 94
89) Benzo(k)fluoranthene	14.904	252	738487	33.727	ng	# 94
90) Benzo(a)pyrene	15.251	252	383701	19.085	ng	98
91) Dibenzo(a,h)anthracene	16.698	278	49060	2.978	ng	# 86
92) Benzo(g,h,i)perylene	17.104	276	194595	11.966	ng	98

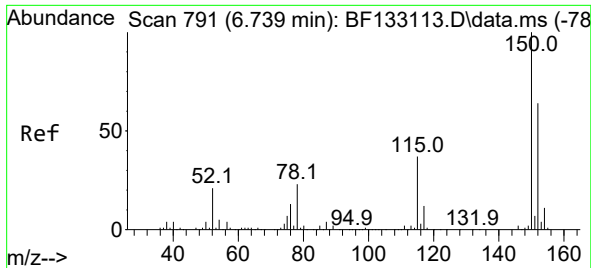
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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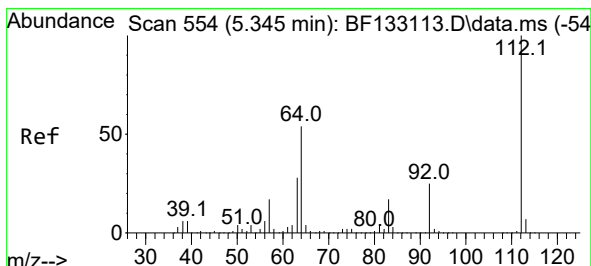
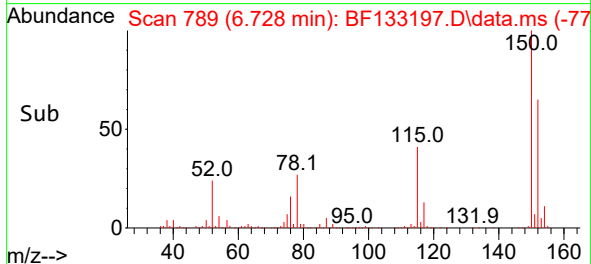
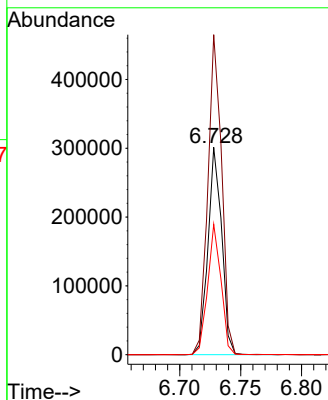
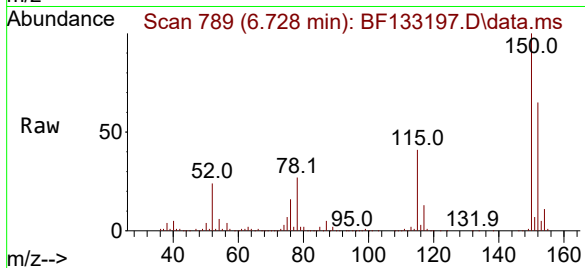




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.728 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

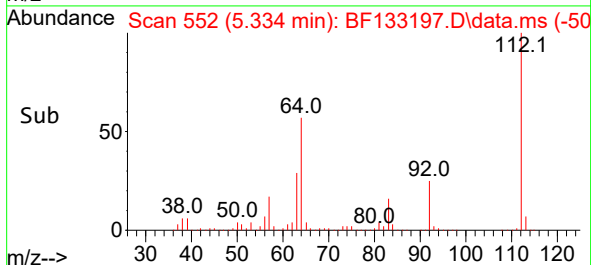
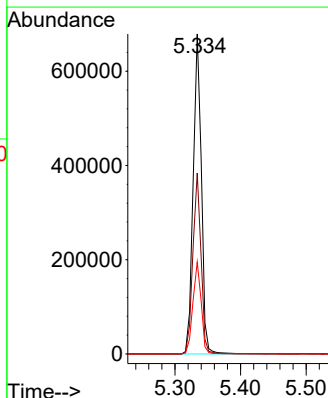
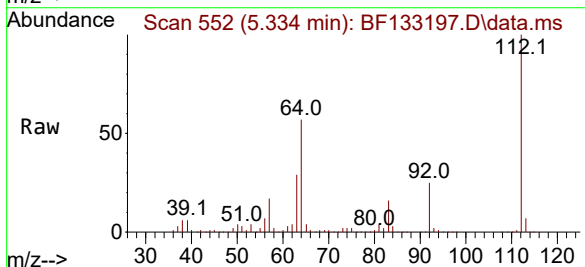
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL

Tgt Ion:152 Resp: 235427
Ion Ratio Lower Upper
152 100
150 154.4 124.8 187.2
115 62.9 49.9 74.9



#5
2-Fluorophenol
Concen: 38.004 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion:112 Resp: 592288
Ion Ratio Lower Upper
112 100
64 56.6 46.8 70.2
63 28.7 23.8 35.8

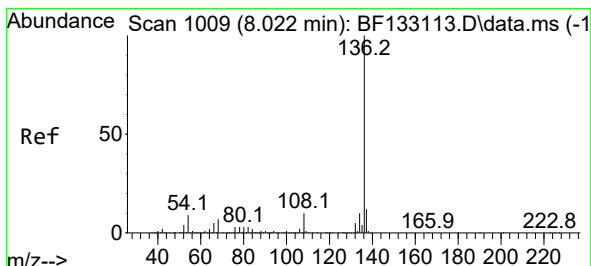
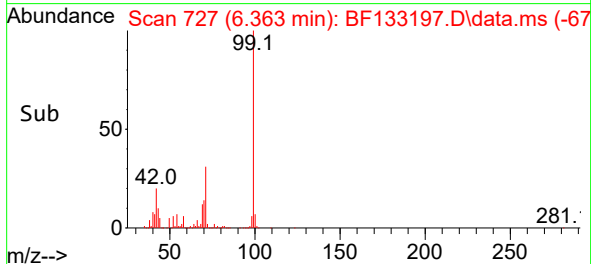
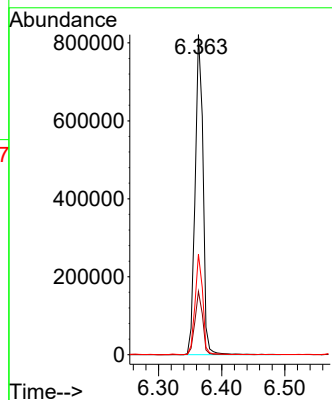
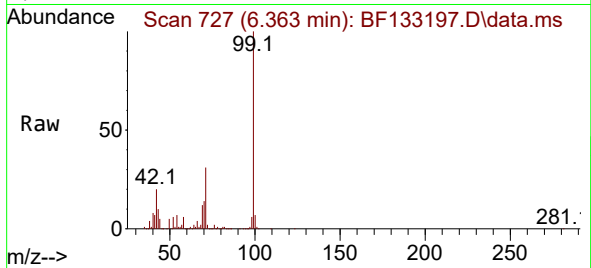




#7
Phenol-d6
Concen: 36.551 ng
RT: 6.363 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

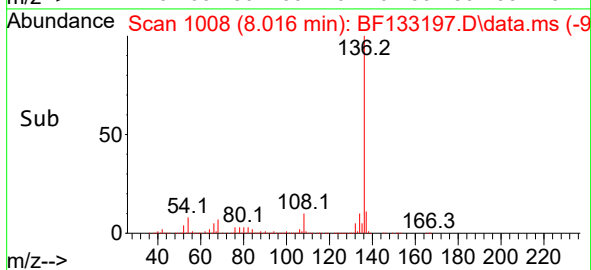
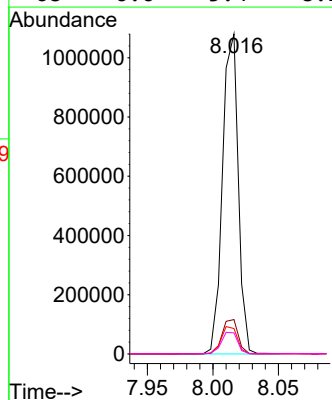
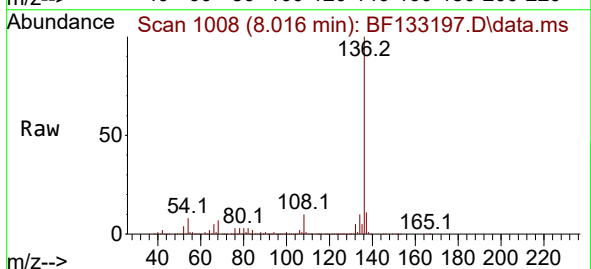
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL

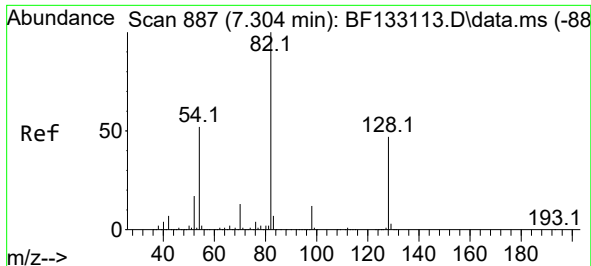
Tgt Ion: 99 Resp: 707040
Ion Ratio Lower Upper
99 100
42 19.8 16.3 24.5
71 31.4 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion: 136 Resp: 900526
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 7.9 7.0 10.4
68 6.6 5.4 8.2





#23

Nitrobenzene-d5

Concen: 24.496 ng

RT: 7.287 min Scan# 884

Delta R.T. -0.012 min

Lab File: BF133197.D

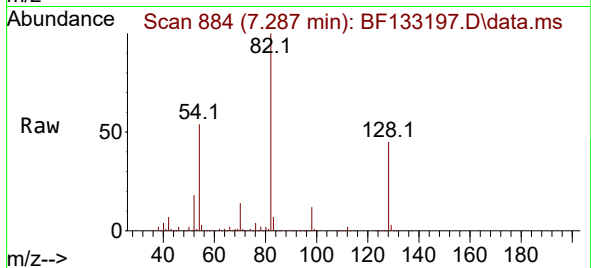
Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL



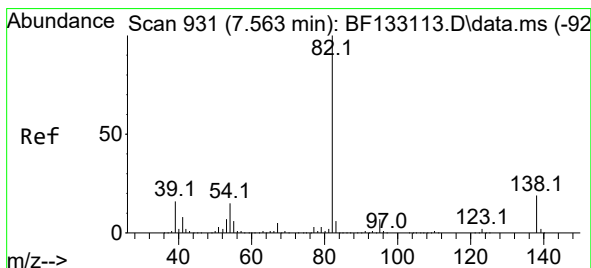
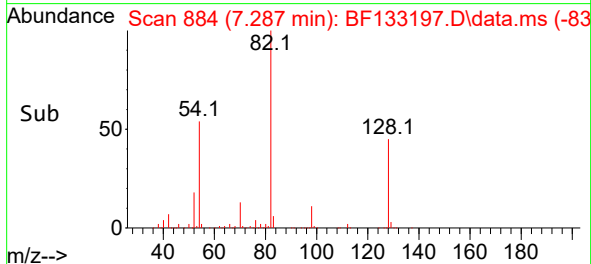
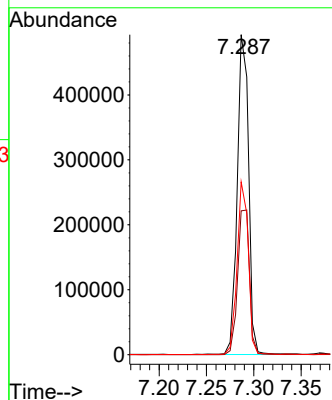
Tgt Ion: 82 Resp: 408676

Ion Ratio Lower Upper

82 100

128 45.0 37.7 56.5

54 54.0 43.0 64.4



#25

Isophorone

Concen: 12.774 ng

RT: 7.287 min Scan# 884

Delta R.T. -0.270 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

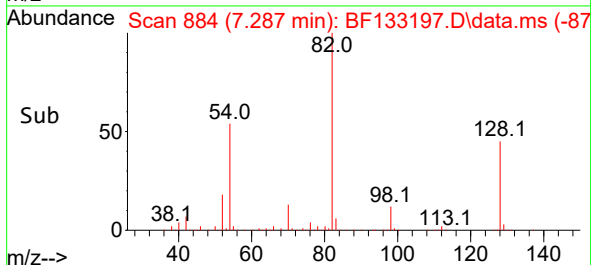
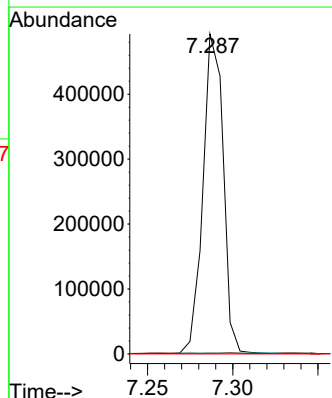
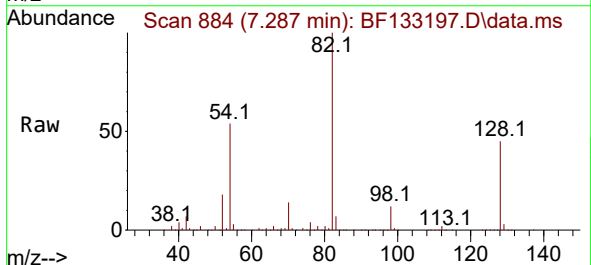
Tgt Ion: 82 Resp: 404644

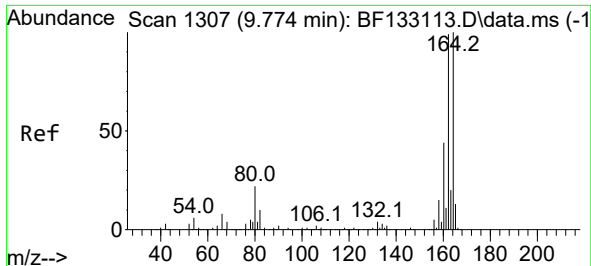
Ion Ratio Lower Upper

82 100

95 0.3 5.4 8.0#

138 0.0 16.0 24.0#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.763 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

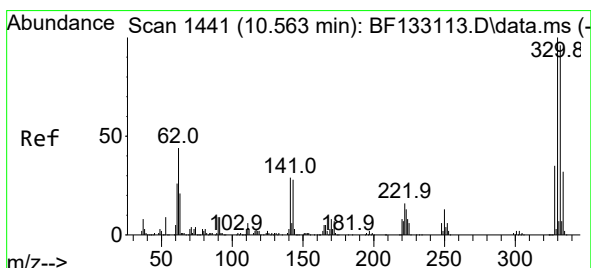
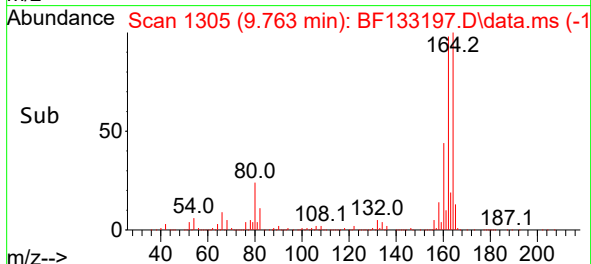
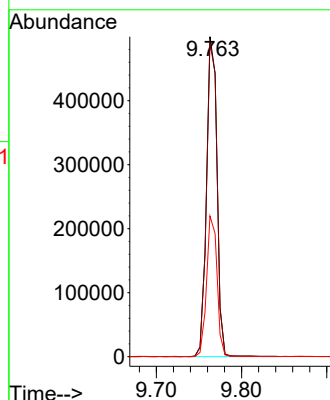
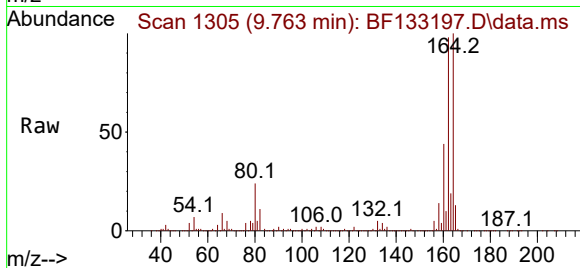
Tgt Ion:164 Resp: 426064

Ion Ratio Lower Upper

164 100

162 98.1 78.7 118.1

160 44.0 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 28.587 ng

RT: 10.551 min Scan# 1439

Delta R.T. -0.012 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

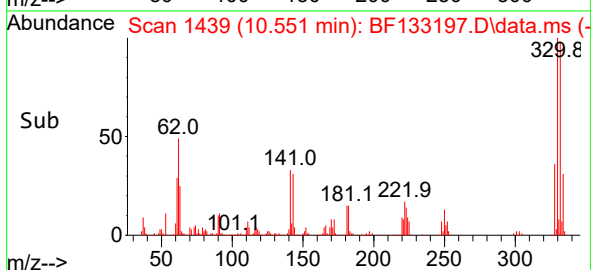
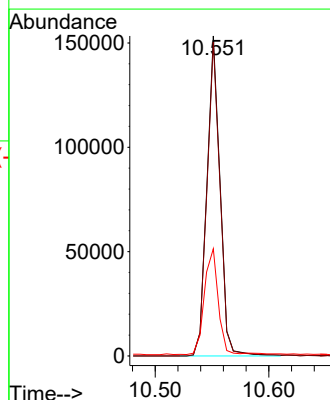
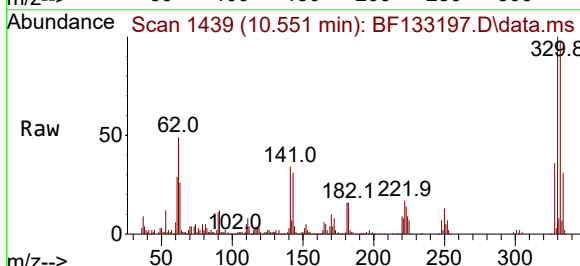
Tgt Ion:330 Resp: 122494

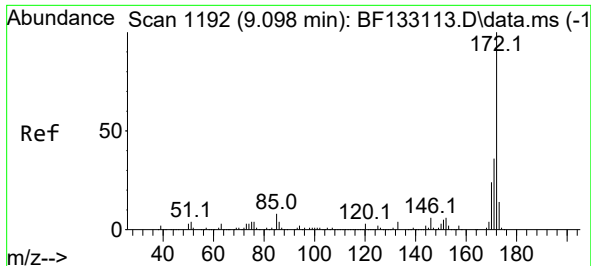
Ion Ratio Lower Upper

330 100

332 98.3 77.1 115.7

141 34.7 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 29.146 ng

RT: 9.086 min Scan# 1192

Delta R.T. -0.012 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

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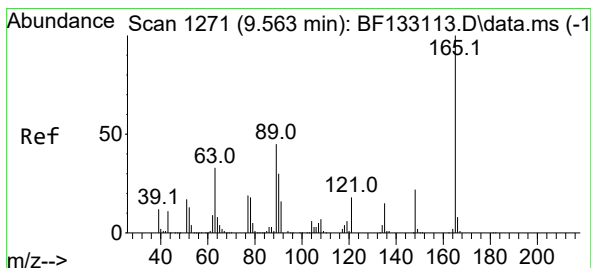
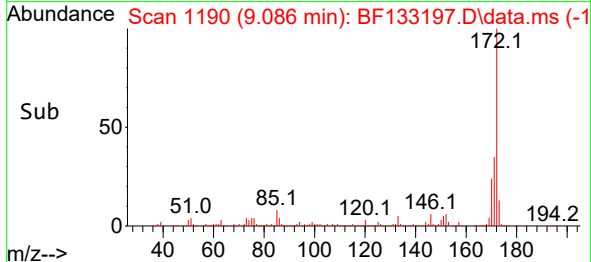
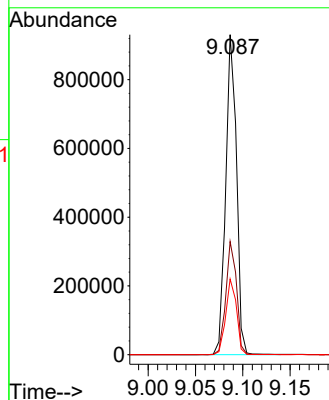
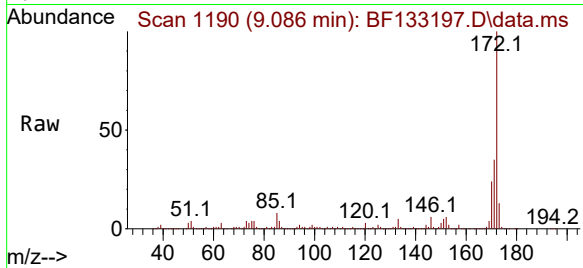
Tgt Ion:172 Resp: 742270

Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

170 23.7 19.4 29.2



#51

2,6-Dinitrotoluene

Concen: 8.726 ng

RT: 9.763 min Scan# 1305

Delta R.T. 0.206 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

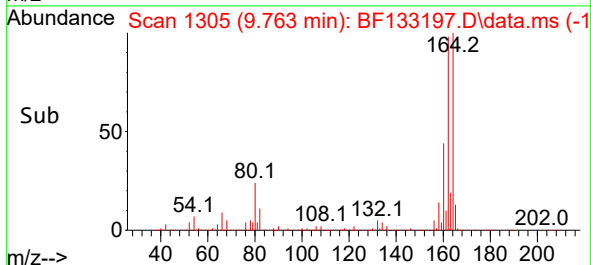
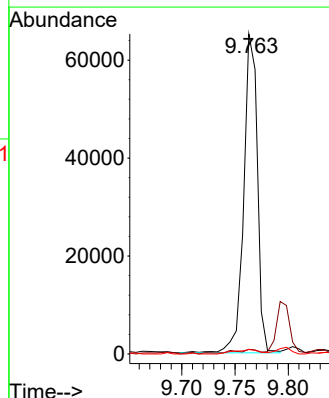
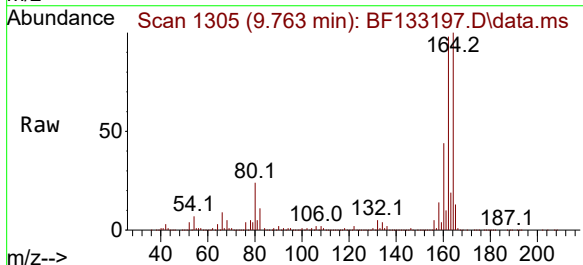
Tgt Ion:165 Resp: 58349

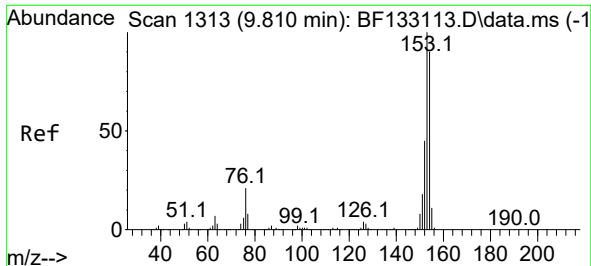
Ion Ratio Lower Upper

165 100

63 1.4 45.9 68.9#

89 1.4 44.0 66.0#

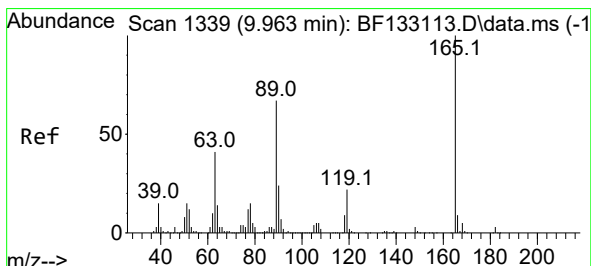
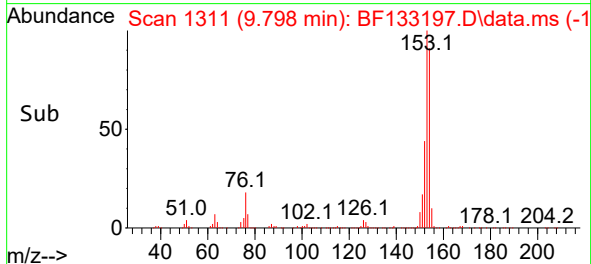
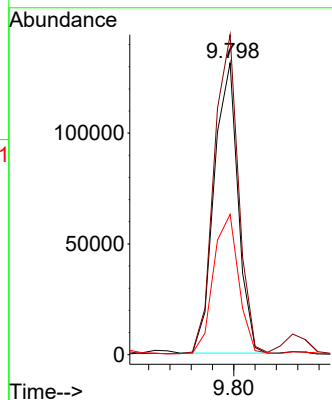
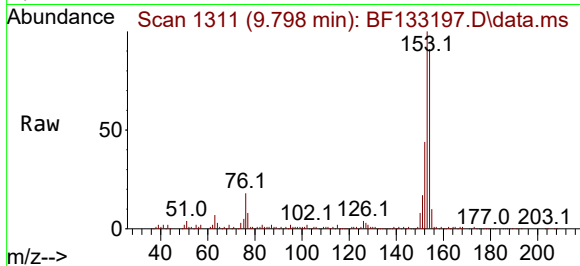




#52
Acenaphthene
Concen: 3.845 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

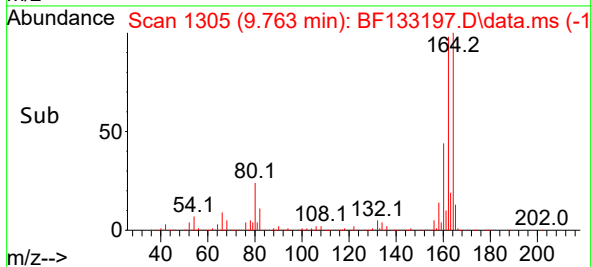
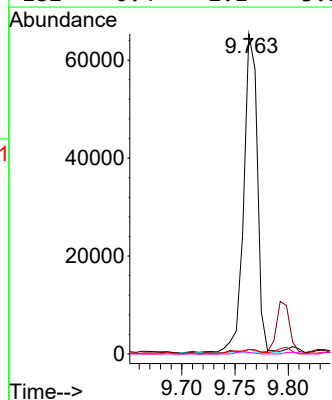
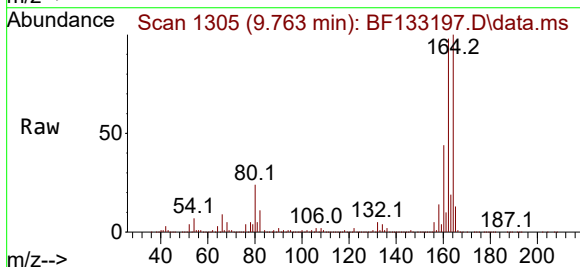
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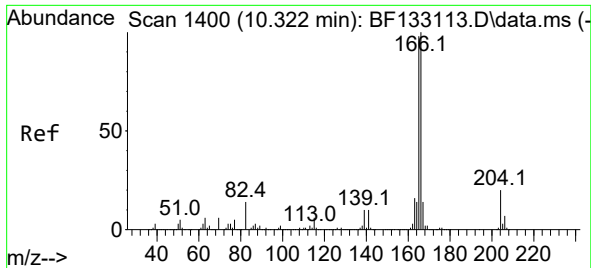
Tgt Ion:154 Resp: 101740
Ion Ratio Lower Upper
154 100
153 109.7 89.0 133.6
152 48.1 40.4 60.6



#57
2,4-Dinitrotoluene
Concen: 6.843 ng
RT: 9.763 min Scan# 1305
Delta R.T. -0.200 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion:165 Resp: 58349
Ion Ratio Lower Upper
165 100
63 1.4 37.7 56.5#
89 1.4 57.0 85.4#
182 0.4 2.1 3.1#

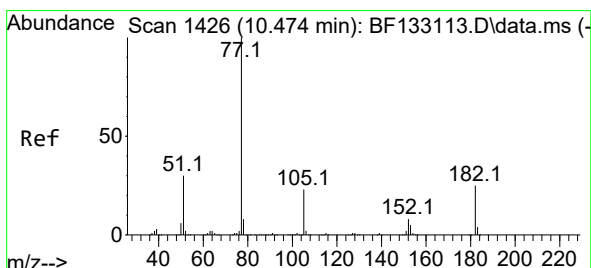
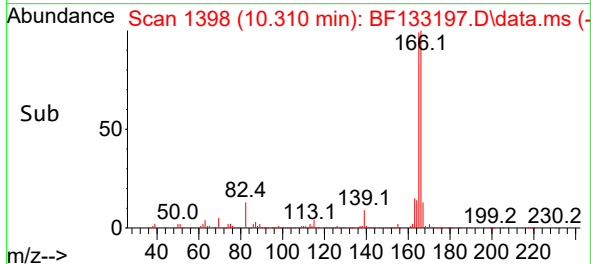
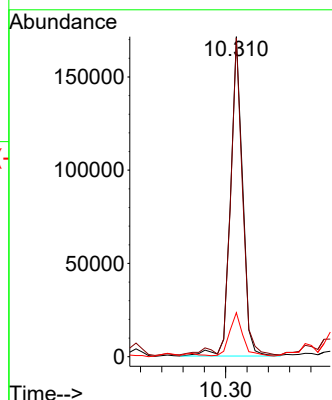
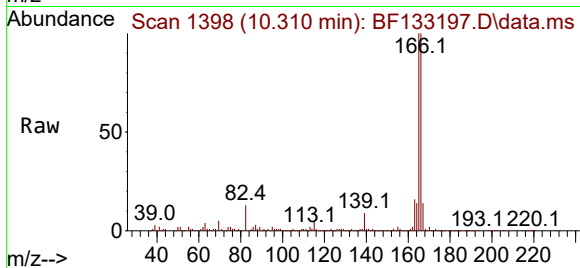




#58
Fluorene
Concen: 5.093 ng
RT: 10.310 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

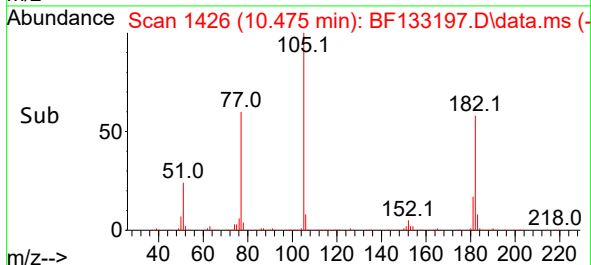
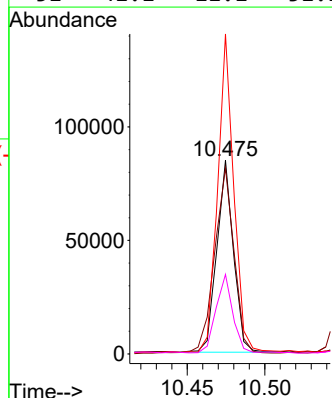
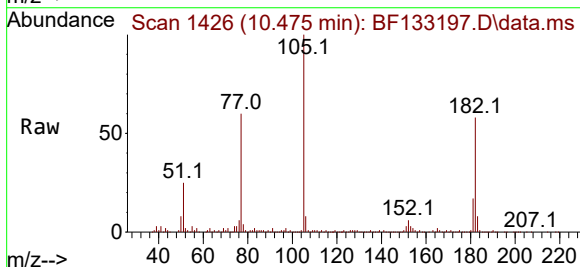
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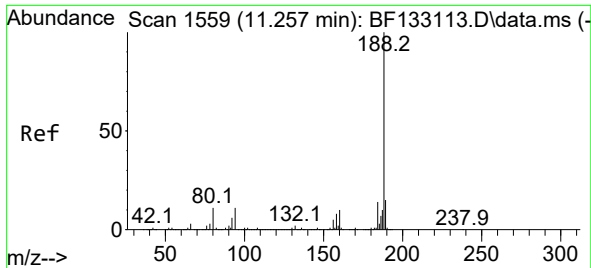
Tgt Ion:166 Resp: 134688
Ion Ratio Lower Upper
166 100
165 99.6 78.6 117.8
167 13.7 11.0 16.4



#63
Azobenzene
Concen: 2.122 ng
RT: 10.475 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion: 77 Resp: 63092
Ion Ratio Lower Upper
77 100
182 96.0 5.9 45.9#
105 165.3 2.3 42.3#
51 41.1 11.1 51.1

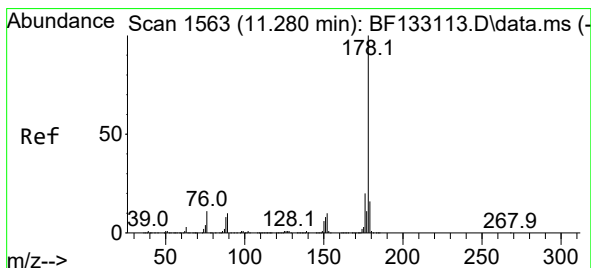
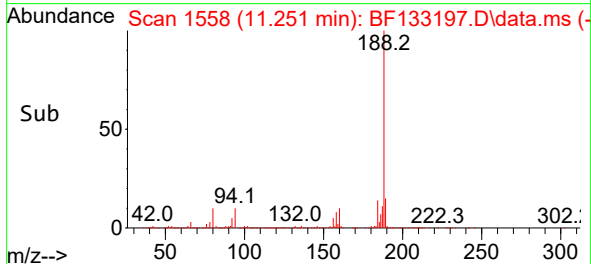
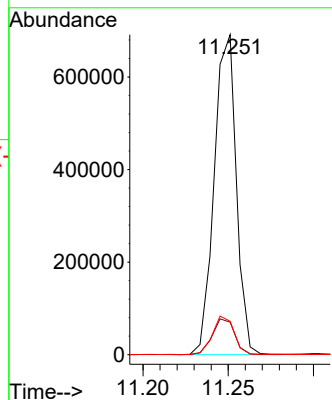
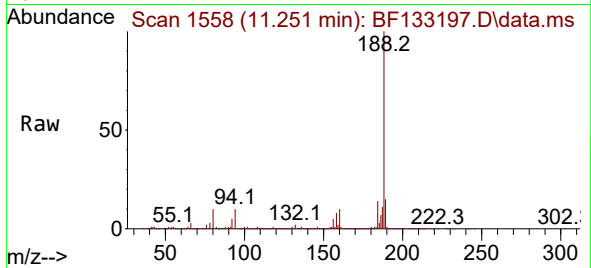




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.251 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

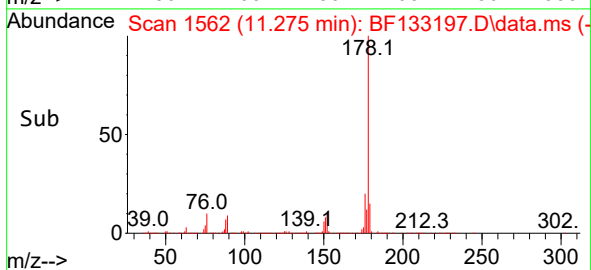
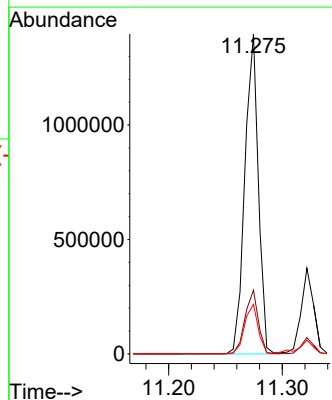
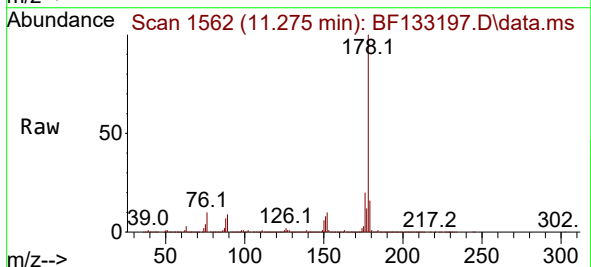
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL

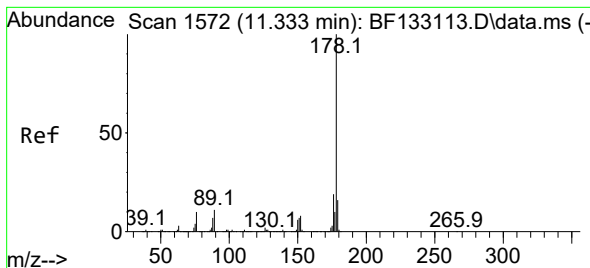
Tgt Ion:188 Resp: 624503
Ion Ratio Lower Upper
188 100
94 10.2 9.7 14.5
80 10.5 10.4 15.6



#71
Phenanthrene
Concen: 34.409 ng
RT: 11.275 min Scan# 1562
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion:178 Resp: 1154957
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.5 12.5 18.7





#72

Anthracene

Concen: 8.153 ng

RT: 11.322 min Scan# 1572

Delta R.T. -0.006 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

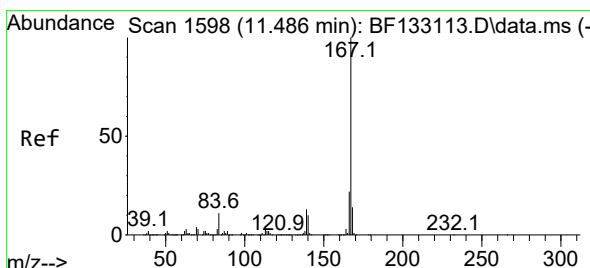
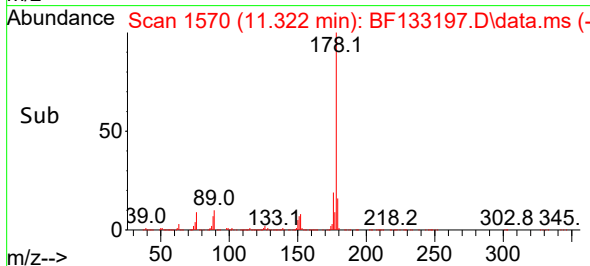
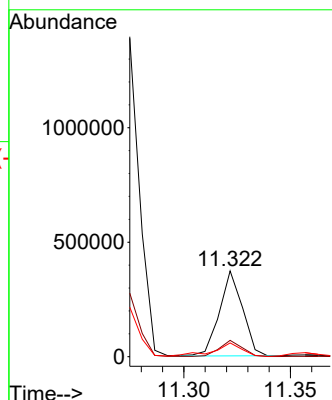
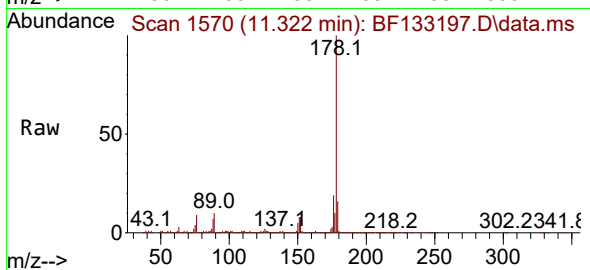
Tgt Ion:178 Resp: 280043

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

179 16.0 12.4 18.6



#73

Carbazole

Concen: 4.240 ng

RT: 11.475 min Scan# 1596

Delta R.T. -0.012 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

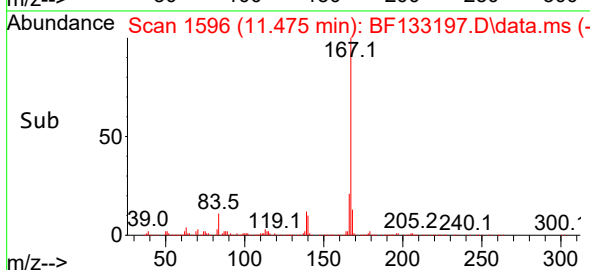
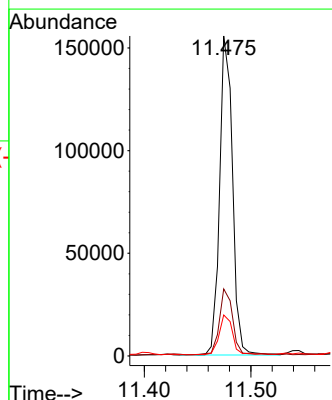
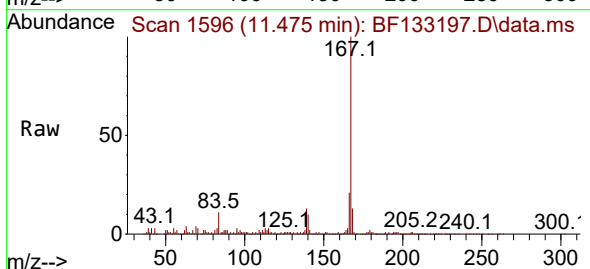
Tgt Ion:167 Resp: 129700

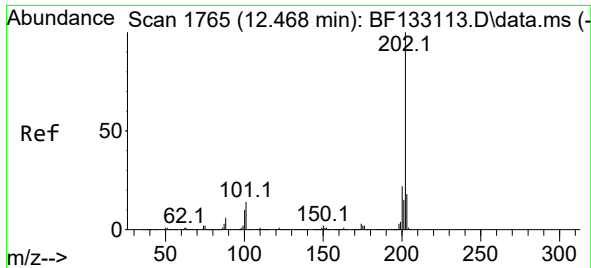
Ion Ratio Lower Upper

167 100

166 21.0 17.4 26.0

139 12.8 10.6 16.0

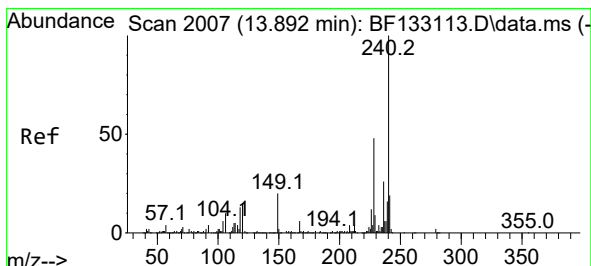
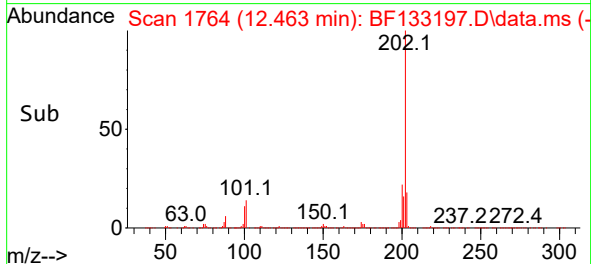
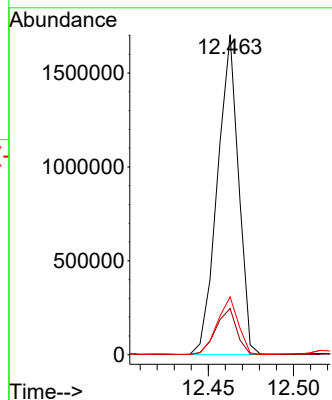
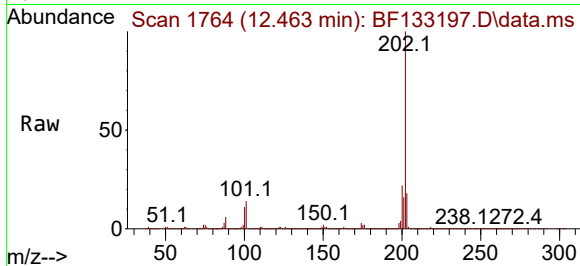




#75
Fluoranthene
Concen: 43.633 ng
RT: 12.463 min Scan# 1764
Delta R.T. 0.000 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

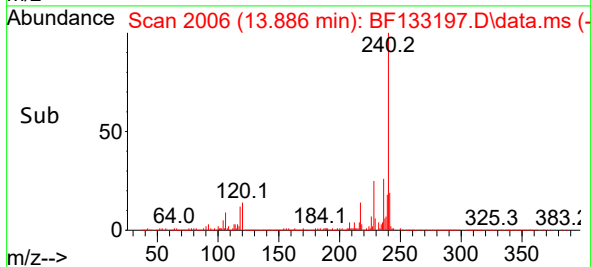
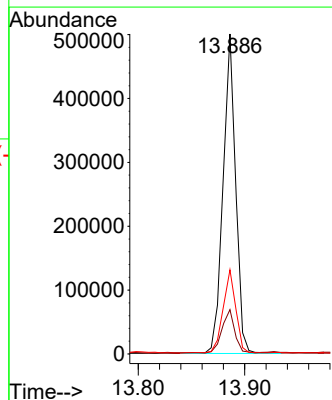
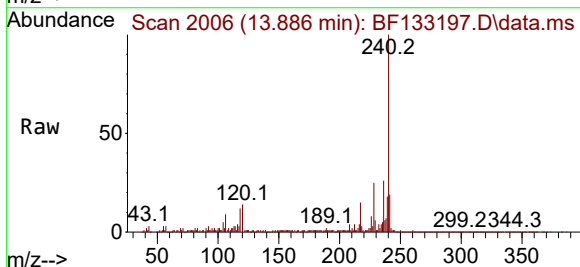
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL

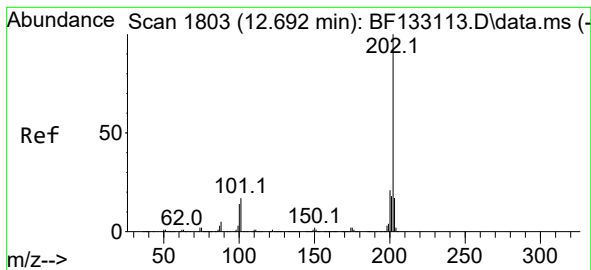
Tgt Ion:202 Resp: 1469838
Ion Ratio Lower Upper
202 100
101 14.5 0.0 35.3
203 18.0 0.0 38.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.886 min Scan# 2006
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion:240 Resp: 410335
Ion Ratio Lower Upper
240 100
120 13.9 10.5 15.7
236 26.3 21.5 32.3





#78

Pyrene

Concen: 36.849 ng

RT: 12.692 min Scan# 1803

Delta R.T. 0.000 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

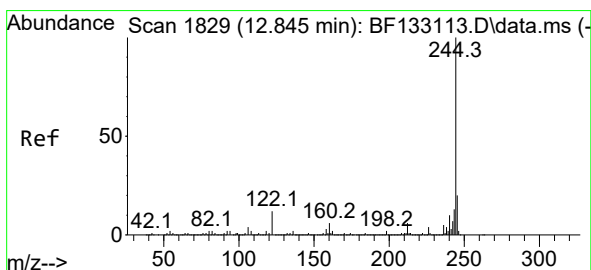
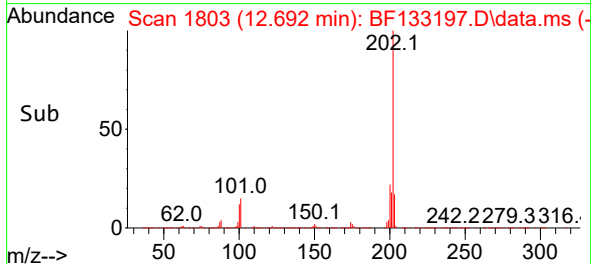
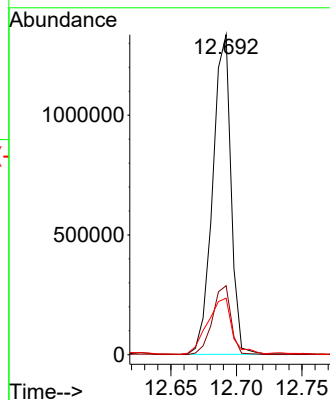
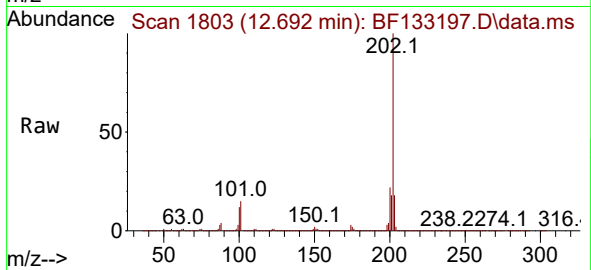
Tgt Ion:202 Resp: 1296184

Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.7 14.1 21.1



#79

Terphenyl-d14

Concen: 23.367 ng

RT: 12.833 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

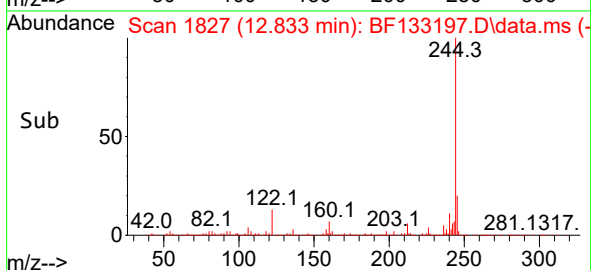
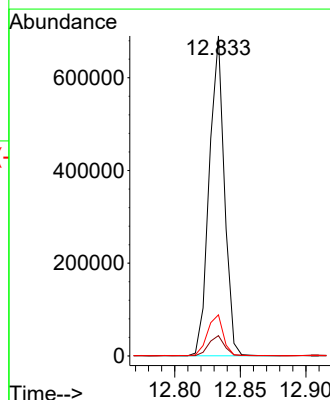
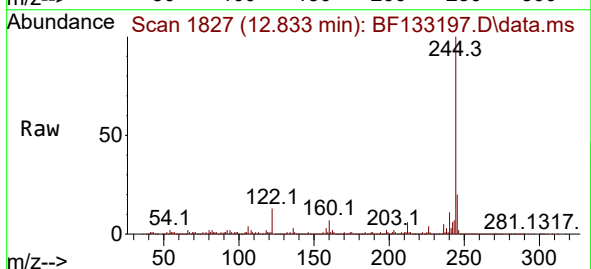
Tgt Ion:244 Resp: 555950

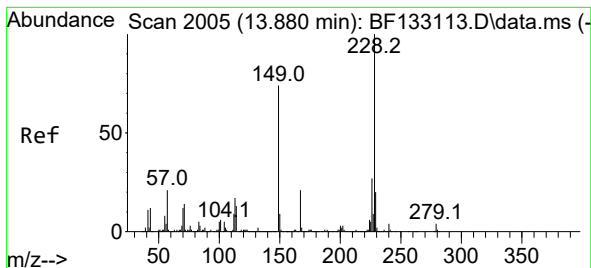
Ion Ratio Lower Upper

244 100

212 6.3 5.1 7.7

122 12.9 8.6 13.0





#81

Benzo(a)anthracene

Concen: 20.985 ng

RT: 13.874 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

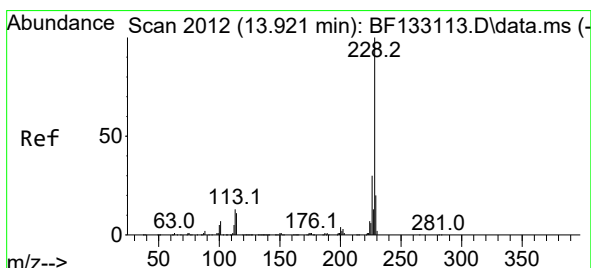
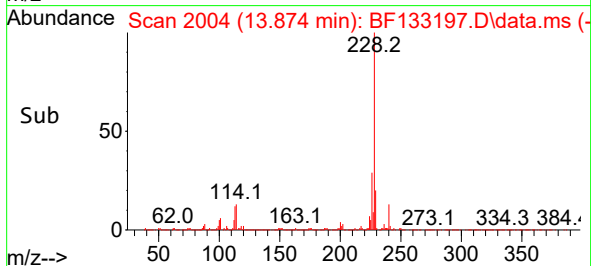
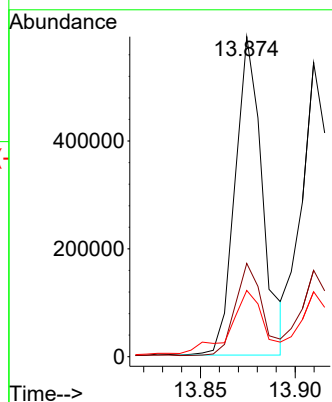
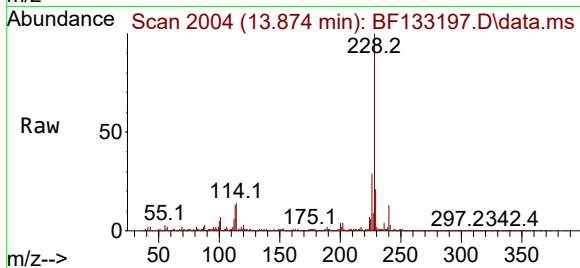
Tgt Ion:228 Resp: 592152

Ion Ratio Lower Upper

228 100

226 29.2 22.2 33.4

229 20.7 16.0 24.0



#83

Chrysene

Concen: 18.395 ng

RT: 13.910 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

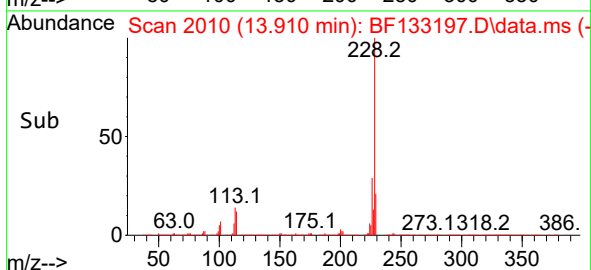
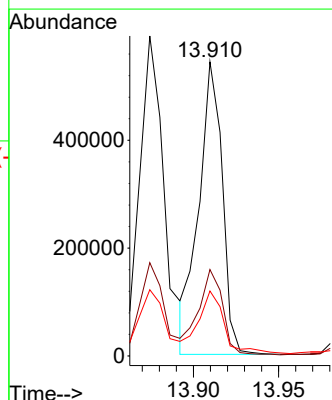
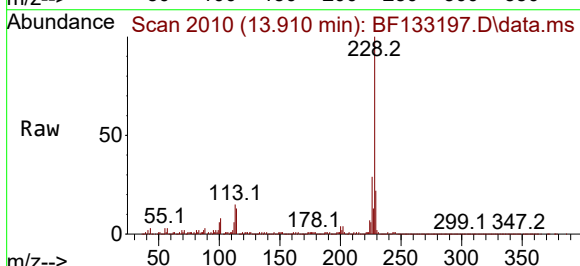
Tgt Ion:228 Resp: 518932

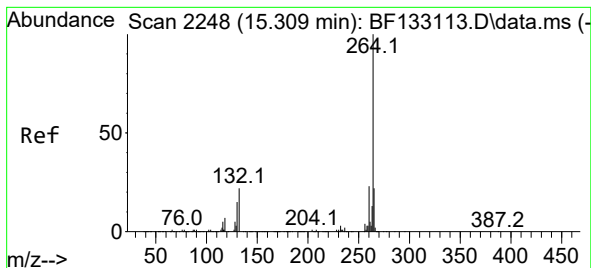
Ion Ratio Lower Upper

228 100

226 29.4 24.7 37.1

229 22.1 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.310 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

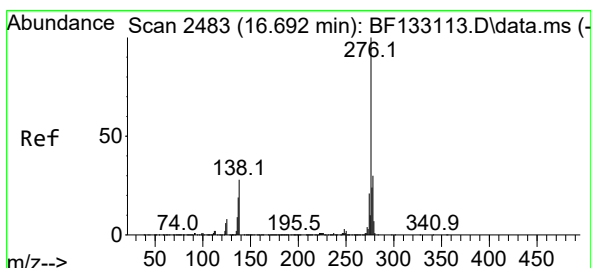
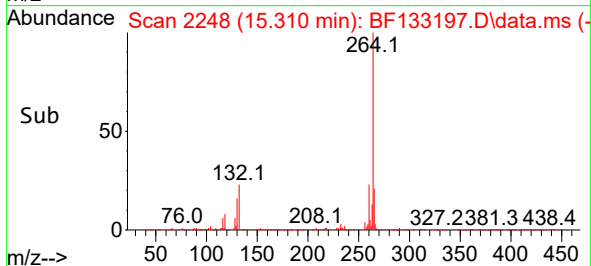
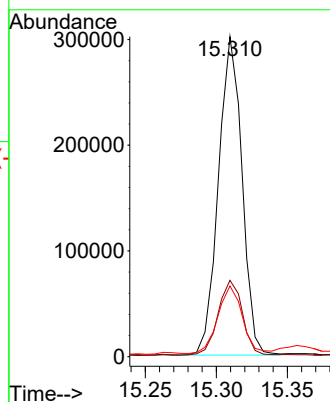
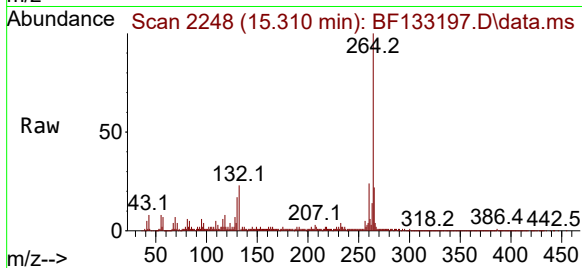
Tgt Ion:264 Resp: 347202

Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

265 22.1 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.797 ng

RT: 16.686 min Scan# 2482

Delta R.T. -0.006 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

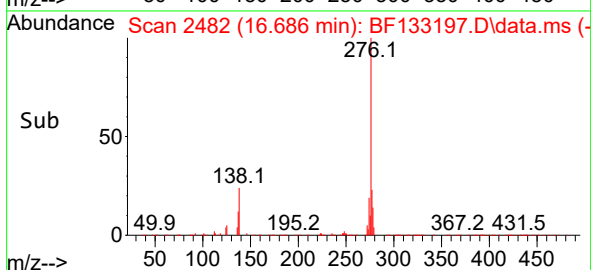
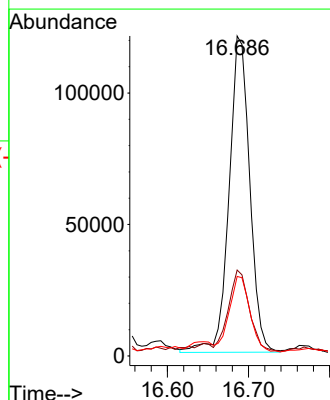
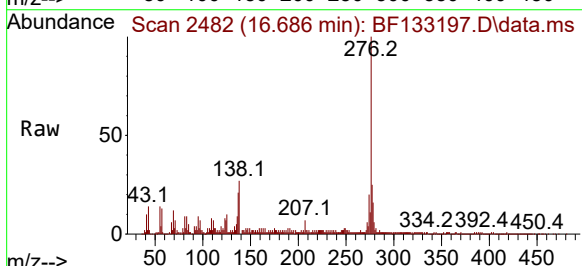
Tgt Ion:276 Resp: 213238

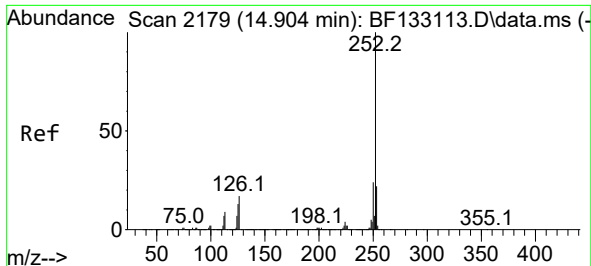
Ion Ratio Lower Upper

276 100

138 25.6 25.5 38.3

277 24.0 20.4 30.6

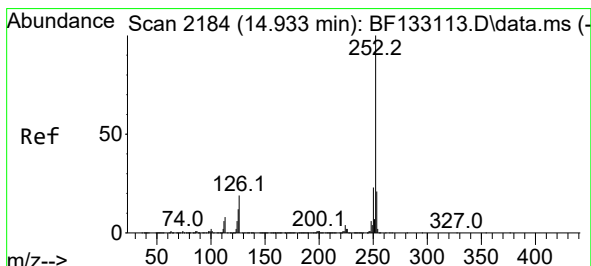
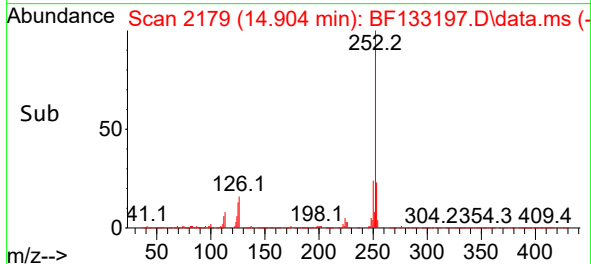
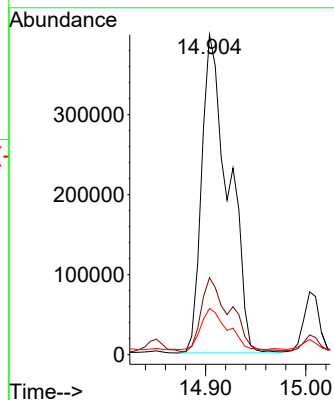
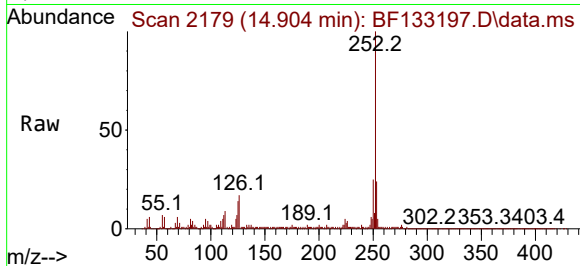




#88
Benzo(b)fluoranthene
Concen: 33.433 ng
RT: 14.904 min Scan# 2179
Delta R.T. 0.000 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

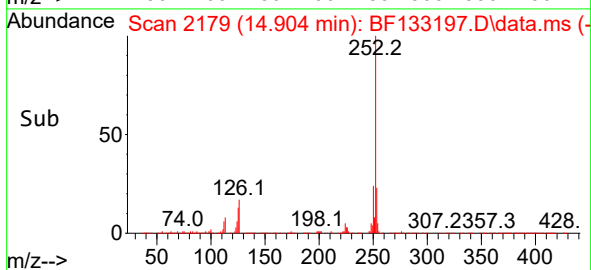
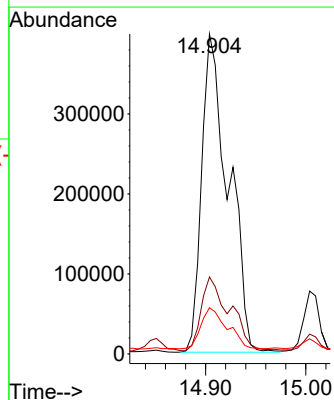
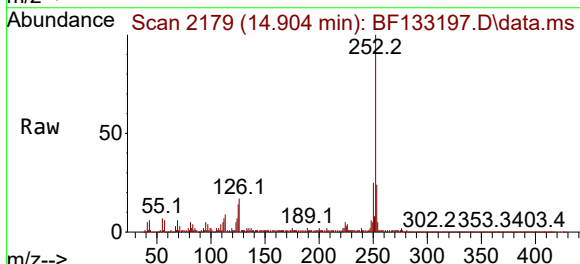
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL

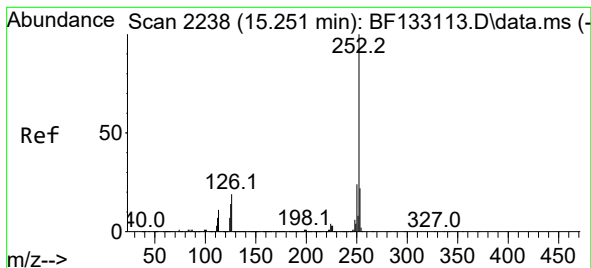
Tgt Ion:252 Resp: 738487
Ion Ratio Lower Upper
252 100
253 24.0 17.6 26.4
125 14.4 8.9 13.3#



#89
Benzo(k)fluoranthene
Concen: 33.727 ng
RT: 14.904 min Scan# 2179
Delta R.T. -0.029 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Tgt Ion:252 Resp: 738487
Ion Ratio Lower Upper
252 100
253 24.0 17.7 26.5
125 14.4 9.0 13.4#





#90

Benzo(a)pyrene

Concen: 19.085 ng

RT: 15.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023DL

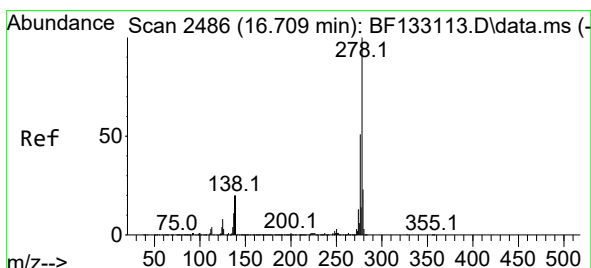
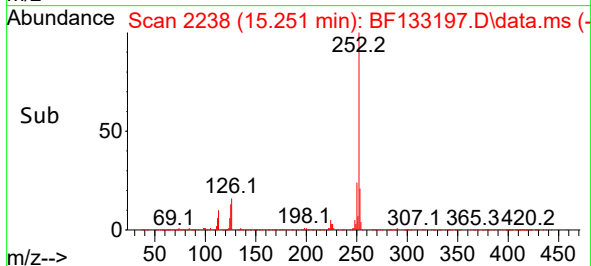
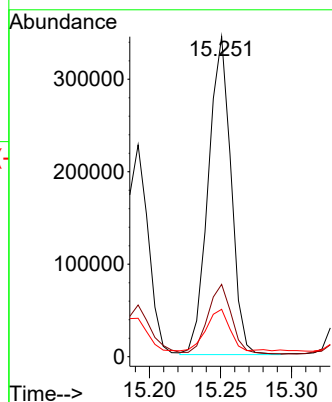
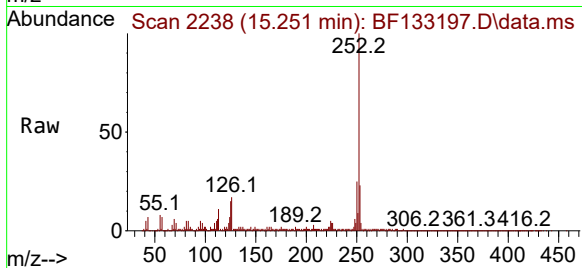
Tgt Ion:252 Resp: 383701

Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 14.8 10.5 15.7



#91

Dibenzo(a,h)anthracene

Concen: 2.978 ng

RT: 16.698 min Scan# 2484

Delta R.T. -0.012 min

Lab File: BF133197.D

Acq: 02 May 2023 19:24

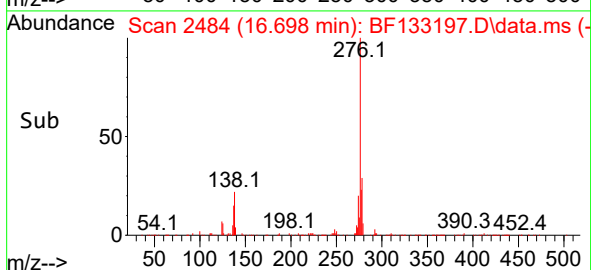
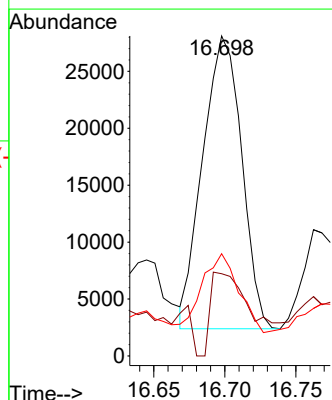
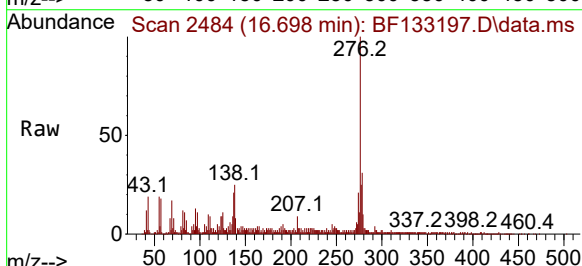
Tgt Ion:278 Resp: 49060

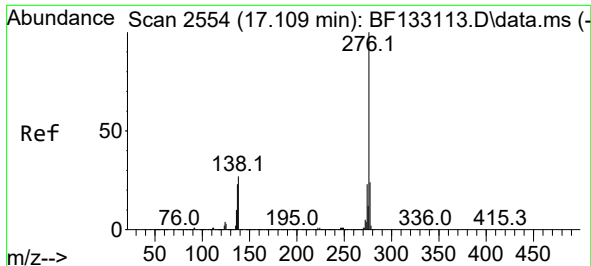
Ion Ratio Lower Upper

278 100

139 25.7 16.6 24.8#

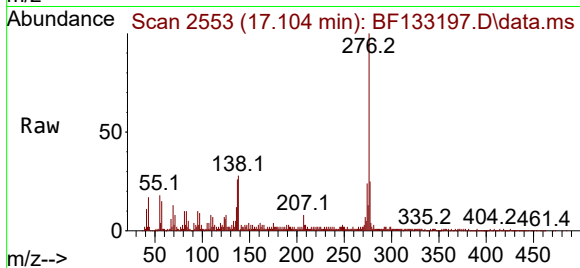
279 31.9 18.8 28.2#





#92
Benzo(g,h,i)perylene
Concen: 11.966 ng
RT: 17.104 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133197.D
Acq: 02 May 2023 19:24

Instrument :
BNA_F
ClientSampleId :
OR-02-04282023DL



Tgt Ion:276 Resp: 194595
Ion Ratio Lower Upper
276 100
277 25.1 19.4 29.0
138 27.5 22.7 34.1

