

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092023\
 Data File : BF135367.D
 Acq On : 20 Sep 2023 20:18
 Operator : CG\JU
 Sample : 04423-01DL2 20X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023DL

Quant Time: Sep 21 01:53:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

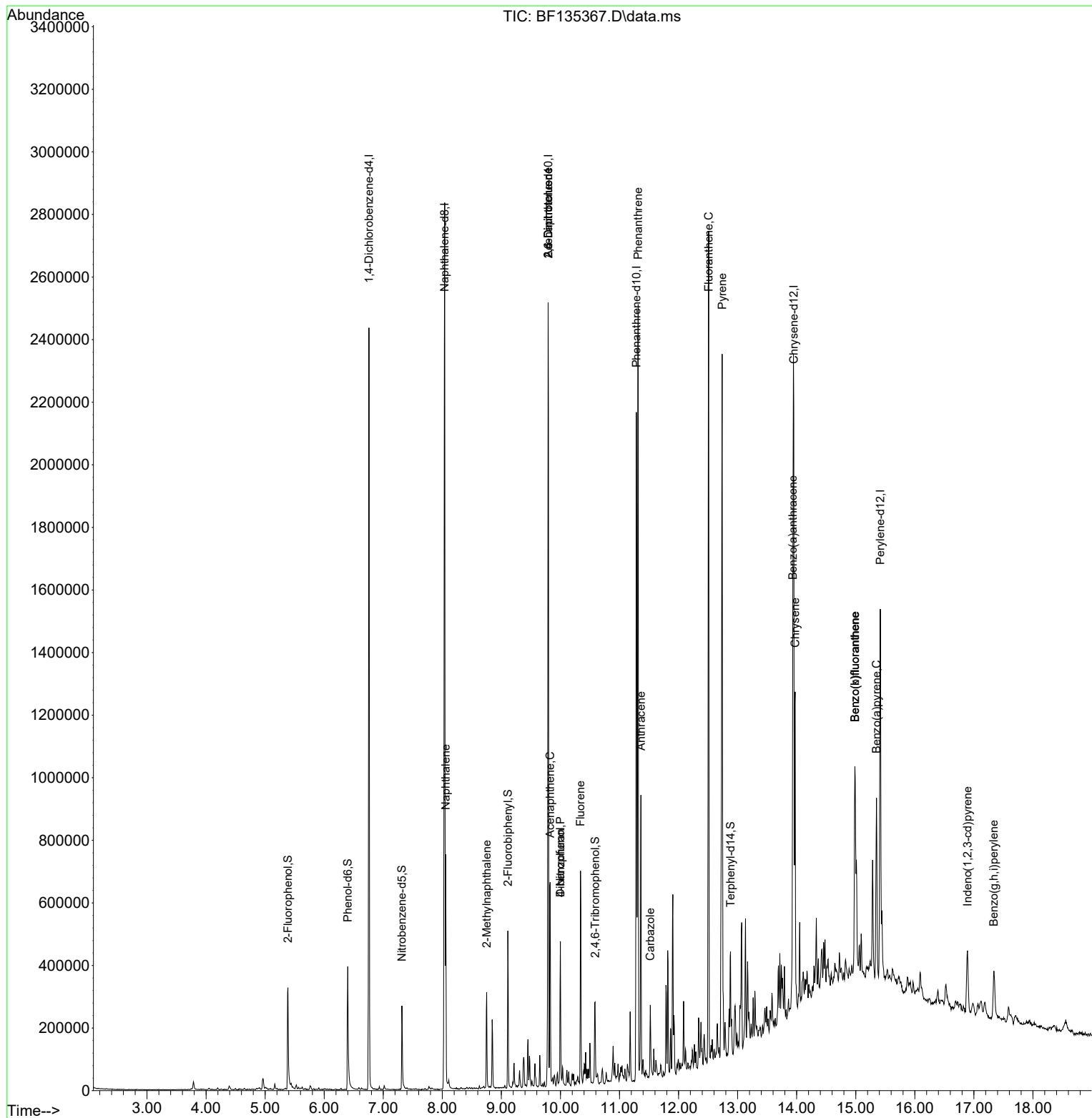
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	352379	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	1252978	20.000	ng	0.00
39) Acenaphthene-d10	9.792	164	518805	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	834602	20.000	ng	# 0.00
76) Chrysene-d12	13.951	240	638456	20.000	ng	0.00
86) Perylene-d12	15.415	264	577301	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	115891	5.349	ng	0.00
7) Phenol-d6	6.398	99	151601	5.503	ng	0.00
23) Nitrobenzene-d5	7.316	82	84632	3.670	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	19529	3.788	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	147384	4.286	ng	-0.02
79) Terphenyl-d14	12.880	244	113451	2.755	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.057	128	266555	4.378	ng	99
37) 2-Methylnaphthalene	8.751	142	83736	2.046	ng	100
51) 2,6-Dinitrotoluene	9.792	165	71406	9.293	ng	# 17
52) Acenaphthene	9.828	154	133409	4.697	ng	97
55) Dibenzofuran	9.998	168	161262	3.721	ng	96
56) 4-Nitrophenol	9.998	139	54283	9.469	ng	# 4
57) 2,4-Dinitrotoluene	9.792	165	71406	7.423	ng	# 19
58) Fluorene	10.339	166	190480	5.717	ng	99
71) Phenanthrene	11.316	178	948452	24.028	ng	99
72) Anthracene	11.363	178	318501	7.850	ng	99
73) Carbazole	11.522	167	87911	2.380	ng	99
75) Fluoranthene	12.510	202	1077802	26.204	ng	99
78) Pyrene	12.739	202	991288	16.308	ng	99
81) Benzo(a)anthracene	13.933	228	469585	11.390	ng	97
83) Chrysene	13.974	228	415652	10.141	ng	98
87) Indeno(1,2,3-cd)pyrene	16.892	276	133446	3.525	ng	98
88) Benzo(b)fluoranthene	14.986	252	529791	16.953	ng	# 95
89) Benzo(k)fluoranthene	14.986	252	529791	17.162	ng	# 95
90) Benzo(a)pyrene	15.351	252	277437	9.309	ng	97
92) Benzo(g,h,i)perylene	17.339	276	127193	3.932	ng	# 94

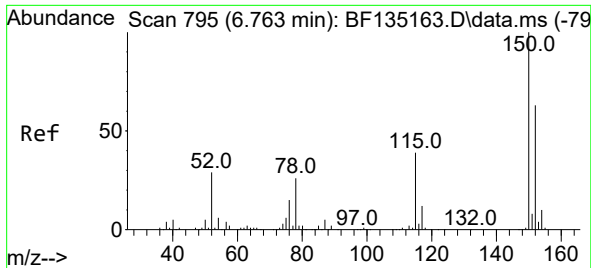
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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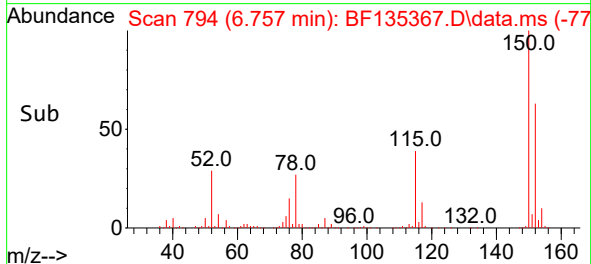
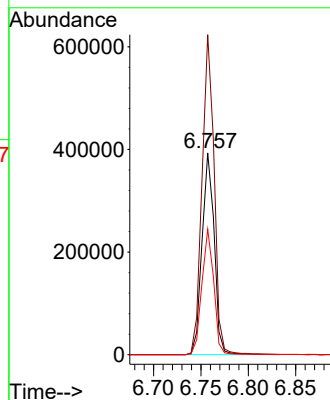
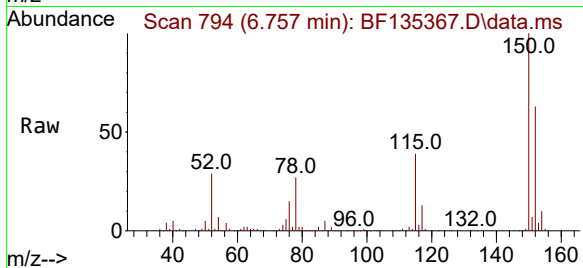




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

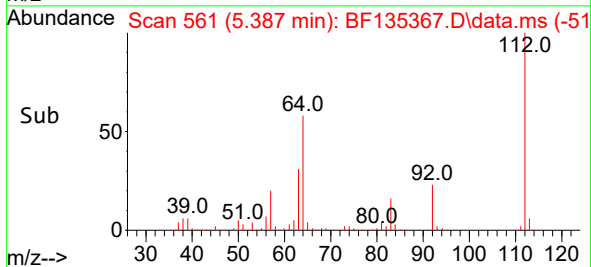
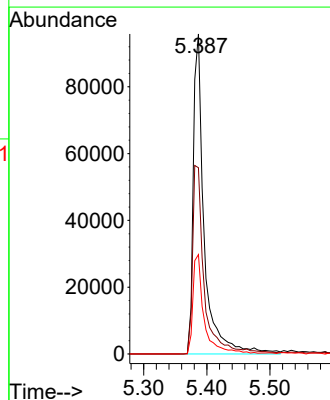
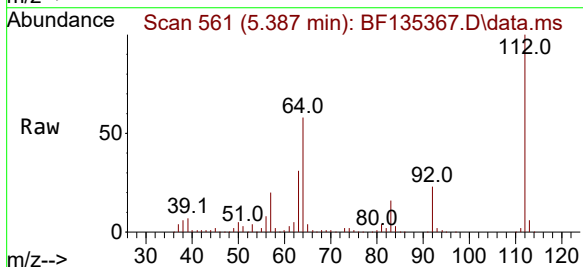
Instrument :
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ClientSampleId :
HD-01-09132023DL

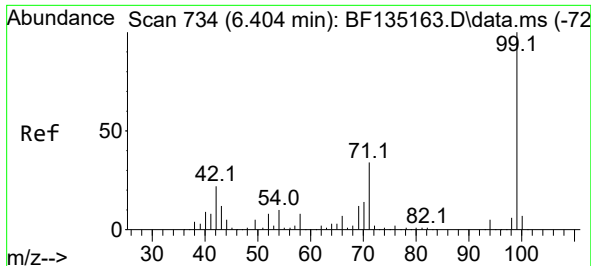
Tgt Ion:152 Resp: 352379
Ion Ratio Lower Upper
152 100
150 158.6 127.8 191.6
115 62.2 49.8 74.8



#5
2-Fluorophenol
Concen: 5.349 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:112 Resp: 115891
Ion Ratio Lower Upper
112 100
64 58.2 55.9 83.9
63 31.1 29.0 43.6

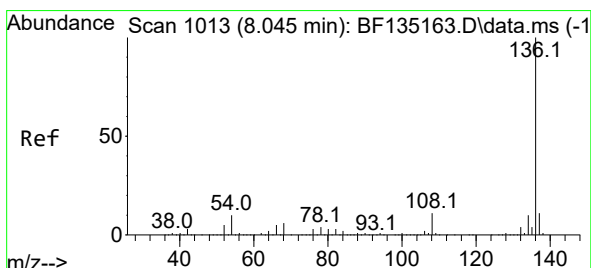
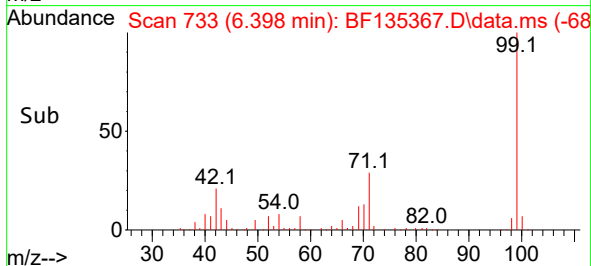
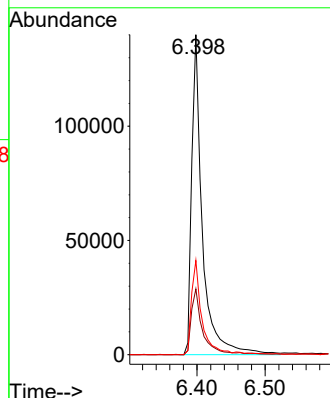
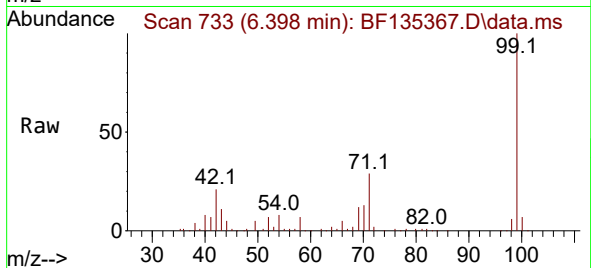




#7
Phenol-d6
Concen: 5.503 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

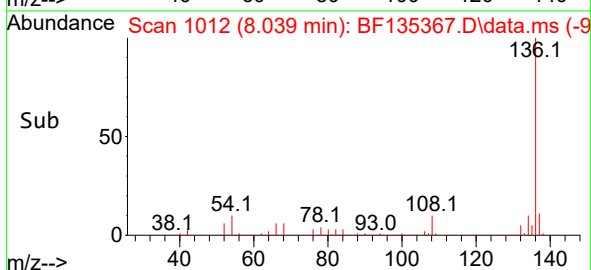
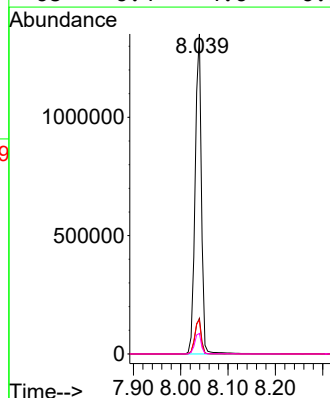
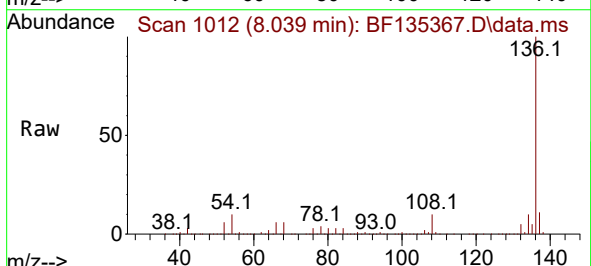
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

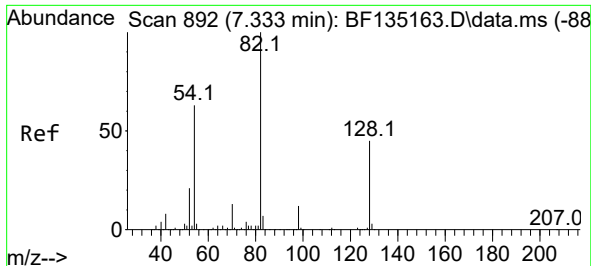
Tgt Ion: 99 Resp: 151601
Ion Ratio Lower Upper
99 100
42 20.5 17.9 26.9
71 29.5 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion: 136 Resp: 1252978
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 10.5 7.7 11.5
68 6.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 3.670 ng

RT: 7.316 min Scan# 81

Delta R.T. -0.017 min

Lab File: BF135367.D

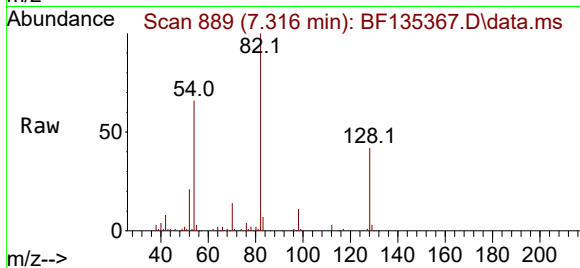
Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL



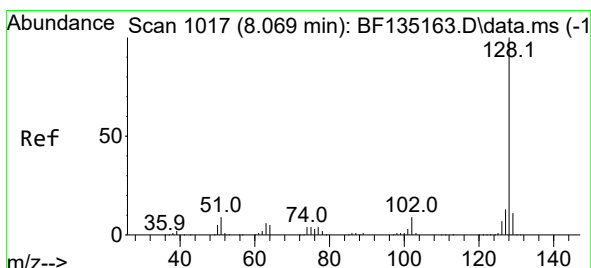
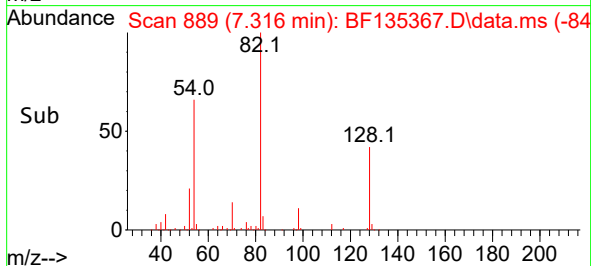
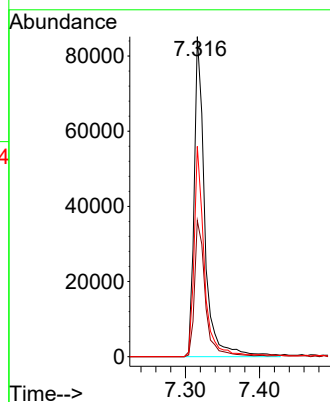
Tgt Ion: 82 Resp: 84632

Ion Ratio Lower Upper

82 100

128 42.5 35.8 53.6

54 65.7 50.6 76.0



#31

Naphthalene

Concen: 4.378 ng

RT: 8.057 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

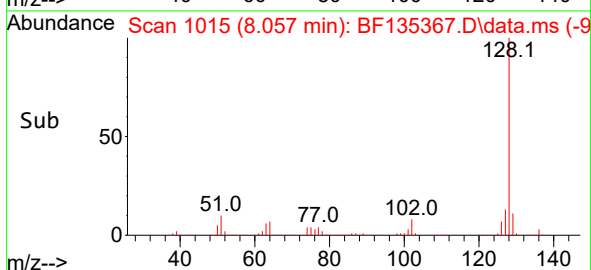
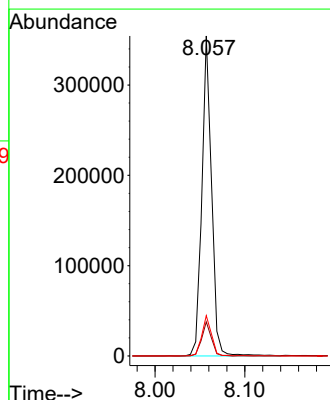
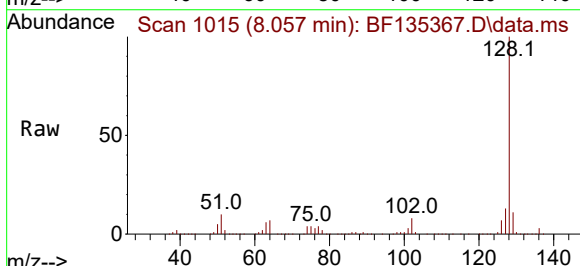
Tgt Ion: 128 Resp: 266555

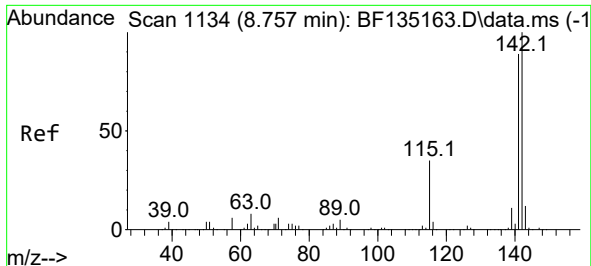
Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

127 12.6 10.7 16.1

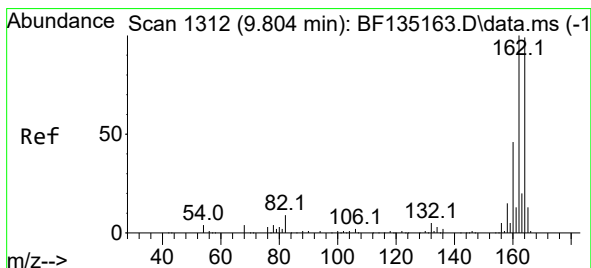
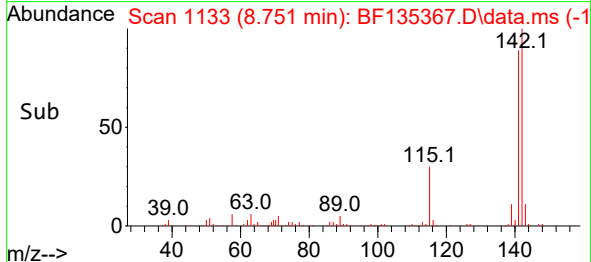
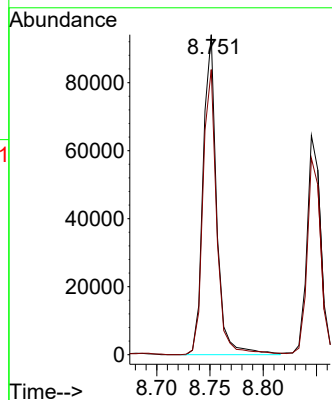
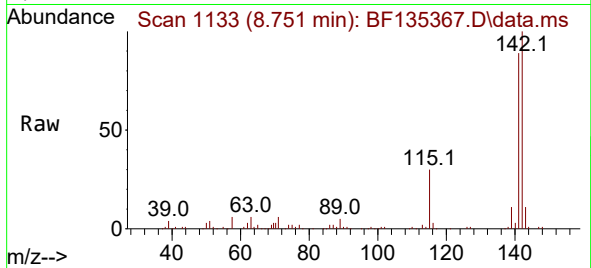




#37
2-Methylnaphthalene
Concen: 2.046 ng
RT: 8.751 min Scan# 1134
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

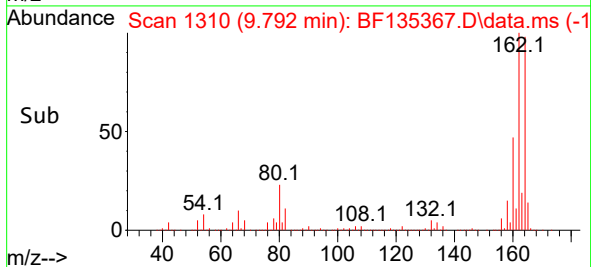
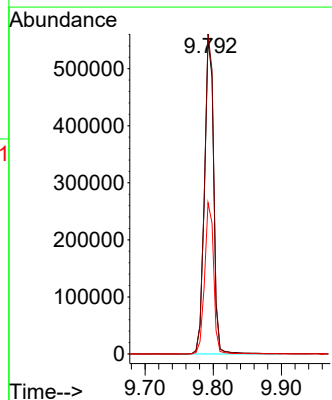
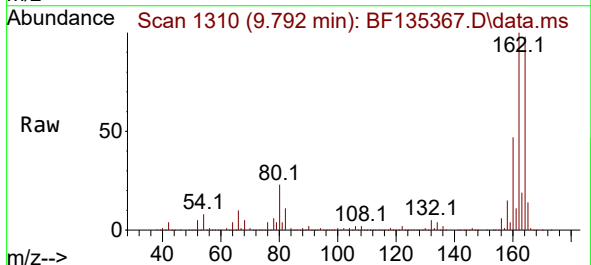
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

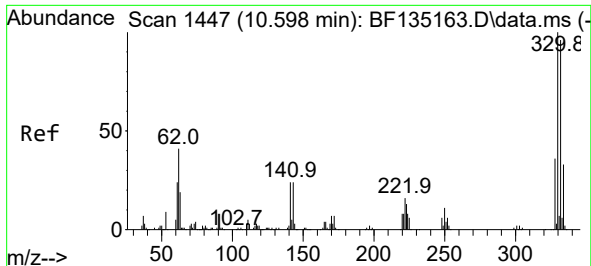
Tgt Ion:142 Resp: 83736
Ion Ratio Lower Upper
142 100
141 89.1 71.0 106.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:164 Resp: 518805
Ion Ratio Lower Upper
164 100
162 101.6 81.0 121.4
160 48.0 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 3.788 ng

RT: 10.586 min Scan# 1445

Delta R.T. -0.012 min

Lab File: BF135367.D

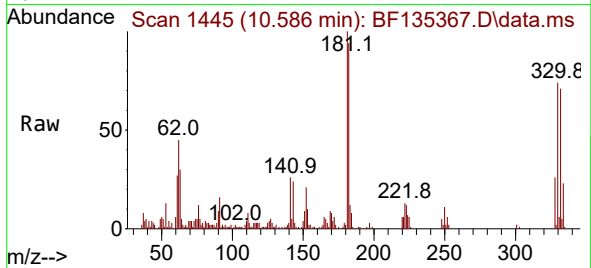
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Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL



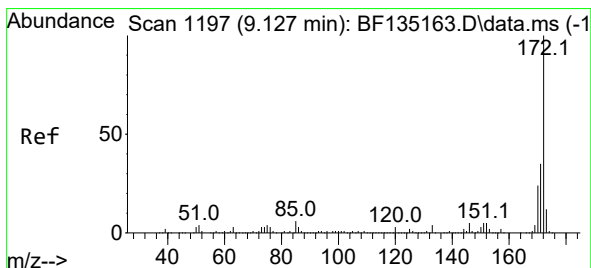
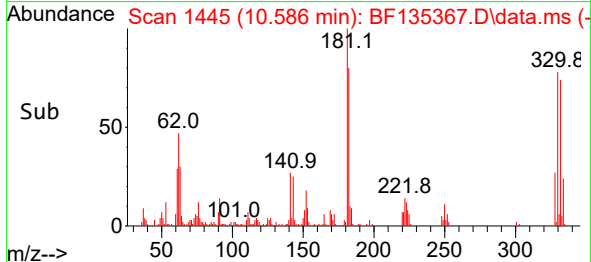
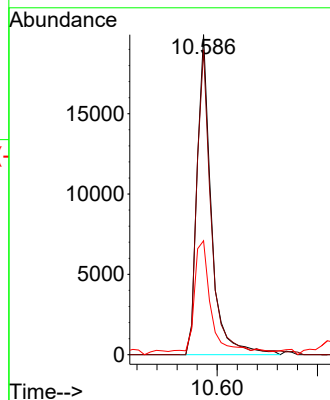
Tgt Ion:330 Resp: 19529

Ion Ratio Lower Upper

330 100

332 98.1 77.3 115.9

141 41.6 25.8 38.8#



#45

2-Fluorobiphenyl

Concen: 4.286 ng

RT: 9.110 min Scan# 1194

Delta R.T. -0.017 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

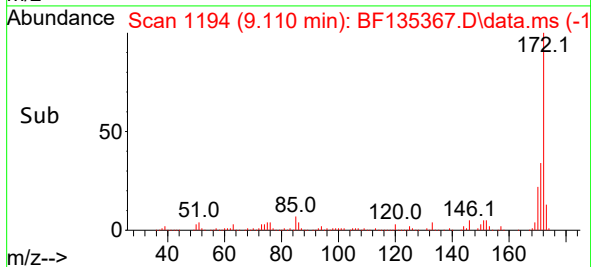
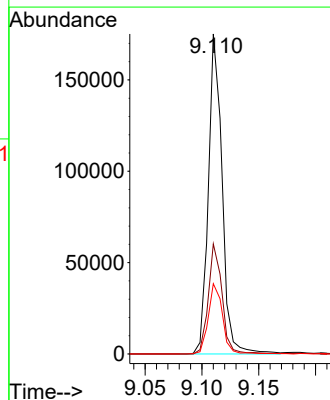
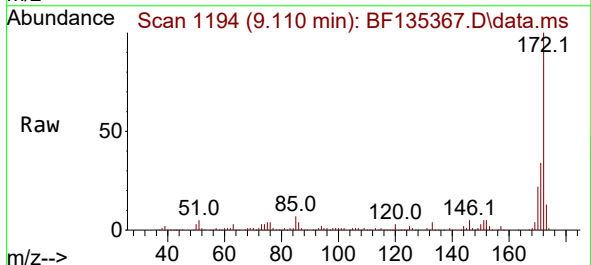
Tgt Ion:172 Resp: 147384

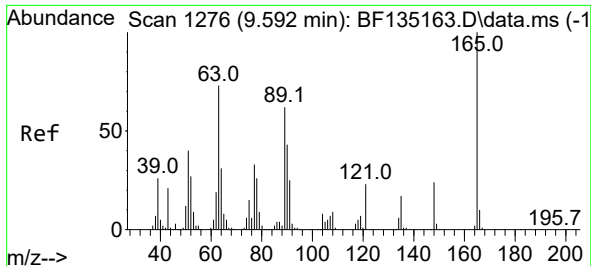
Ion Ratio Lower Upper

172 100

171 34.4 28.4 42.6

170 21.9 19.0 28.4

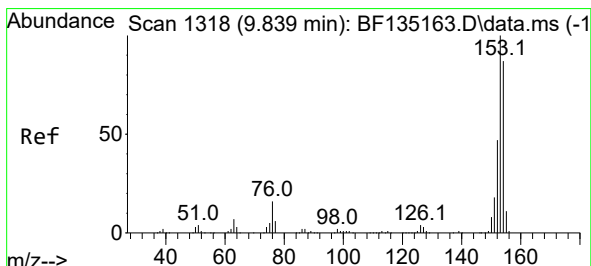
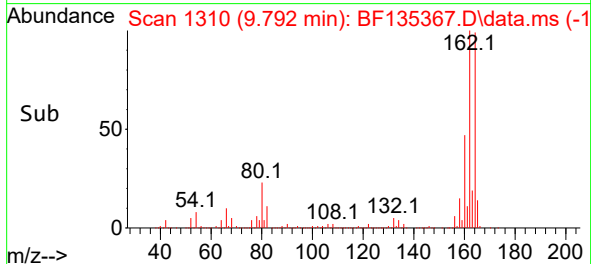
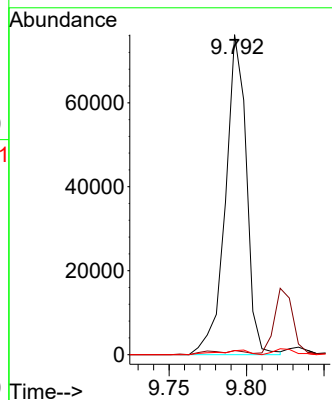
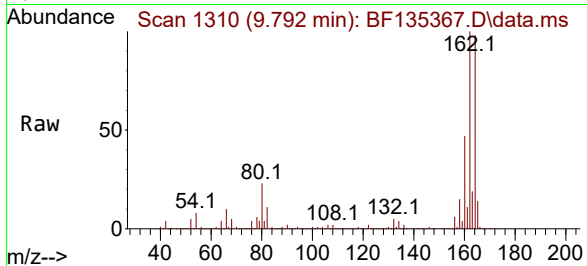




#51
2,6-Dinitrotoluene
Concen: 9.293 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

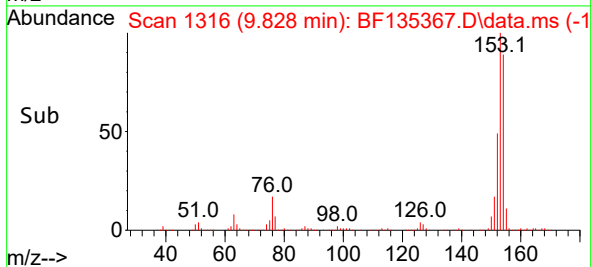
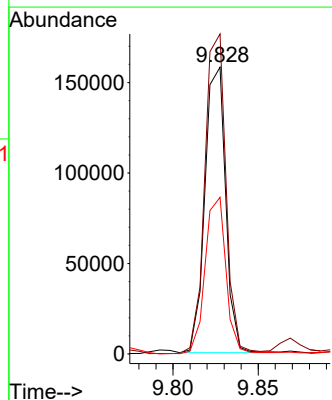
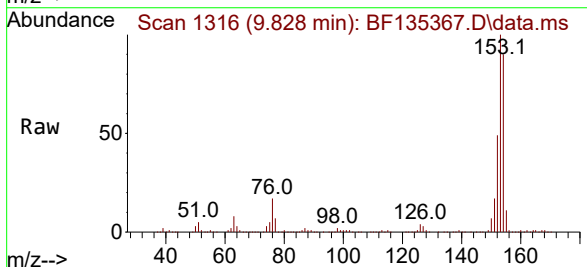
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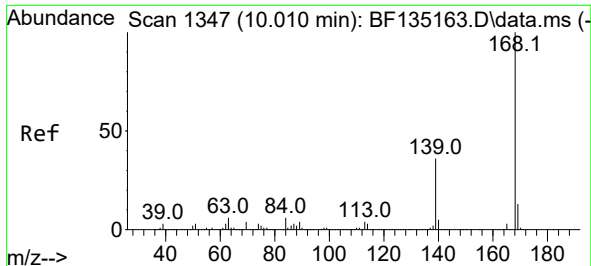
Tgt Ion:165 Resp: 71406
Ion Ratio Lower Upper
165 100
63 1.3 59.4 89.2#
89 1.2 49.8 74.8#



#52
Acenaphthene
Concen: 4.697 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.011 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:154 Resp: 133409
Ion Ratio Lower Upper
154 100
153 111.6 92.1 138.1
152 54.6 43.1 64.7

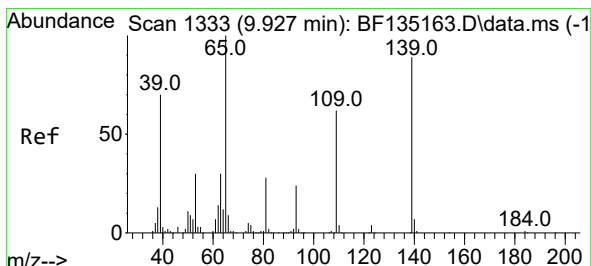
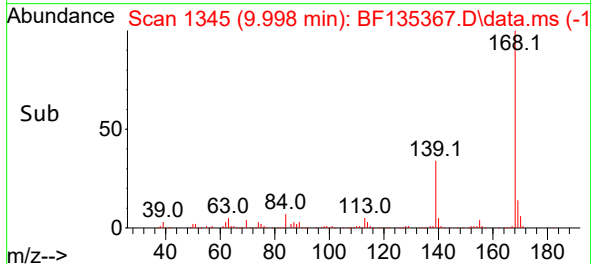
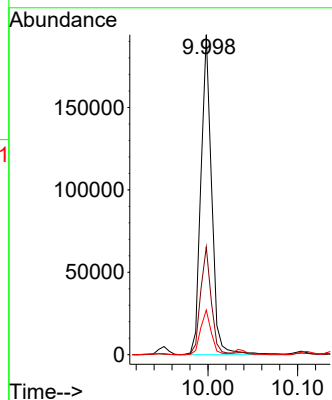
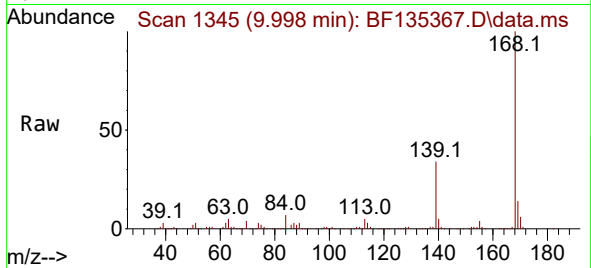




#55
Dibenzenofuran
Concen: 3.721 ng
RT: 9.998 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

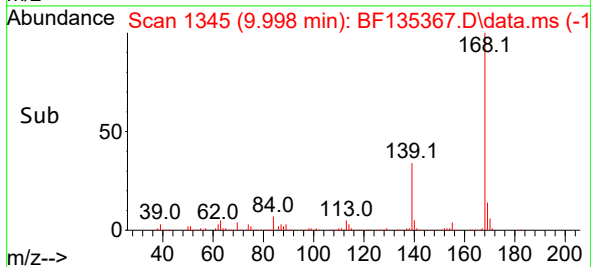
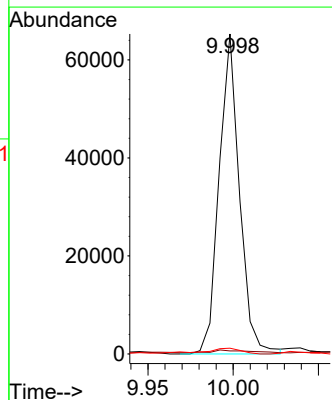
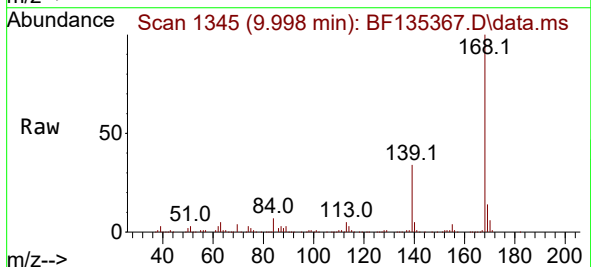
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

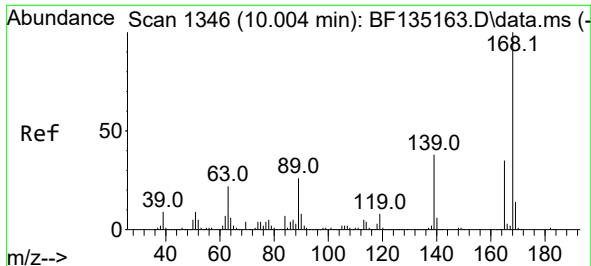
Tgt Ion:168 Resp: 161262
Ion Ratio Lower Upper
168 100
139 33.6 29.0 43.6
169 13.9 10.4 15.6



#56
4-Nitrophenol
Concen: 9.469 ng
RT: 9.998 min Scan# 1345
Delta R.T. 0.071 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:139 Resp: 54283
Ion Ratio Lower Upper
139 100
109 1.0 49.8 89.8#
65 1.8 92.7 132.7#

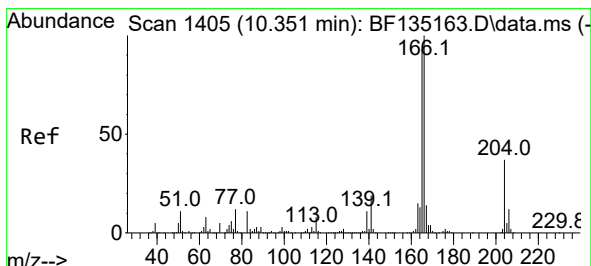
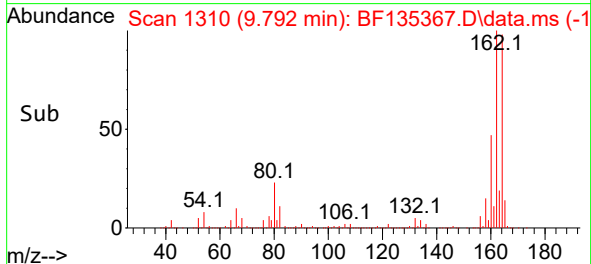
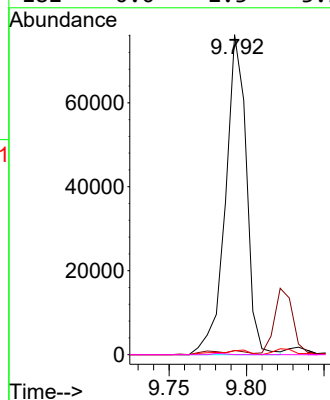
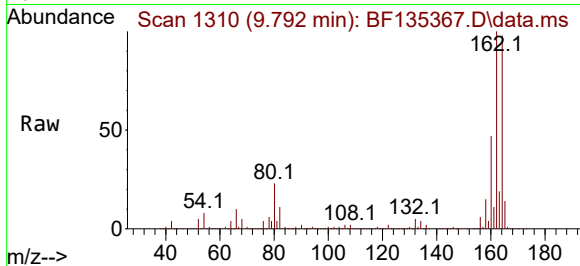




#57
2,4-Dinitrotoluene
Concen: 7.423 ng
RT: 9.792 min Scan# 11
Delta R.T. -0.212 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

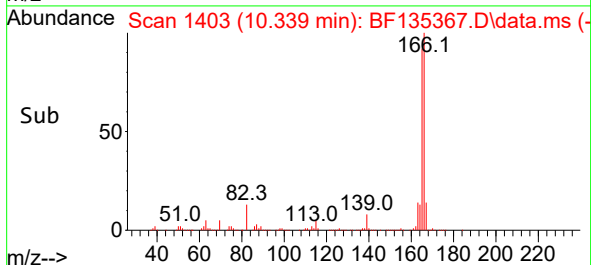
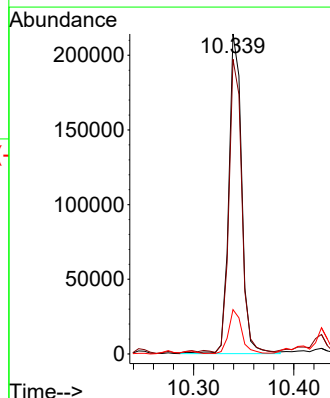
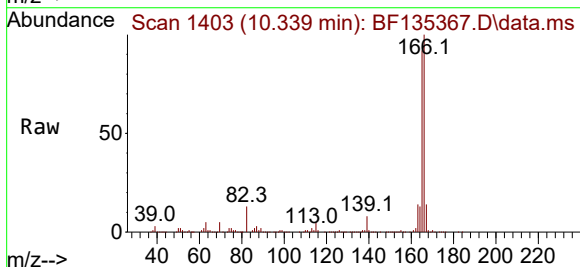
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

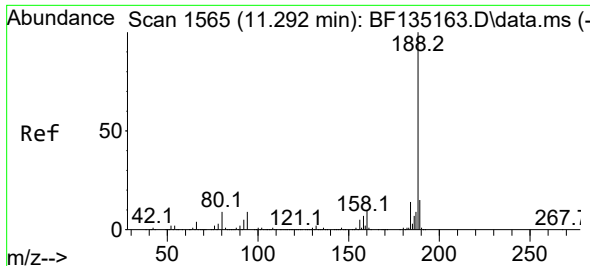
Tgt Ion:165 Resp: 71406
Ion Ratio Lower Upper
165 100
63 1.3 50.1 75.1#
89 1.2 59.3 88.9#
182 0.0 2.3 3.5#



#58
Fluorene
Concen: 5.717 ng
RT: 10.339 min Scan# 1403
Delta R.T. -0.012 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:166 Resp: 190480
Ion Ratio Lower Upper
166 100
165 92.1 74.3 111.5
167 13.9 10.9 16.3

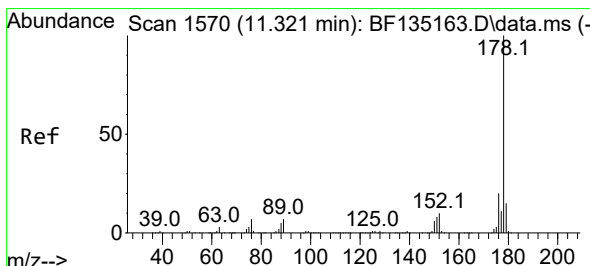
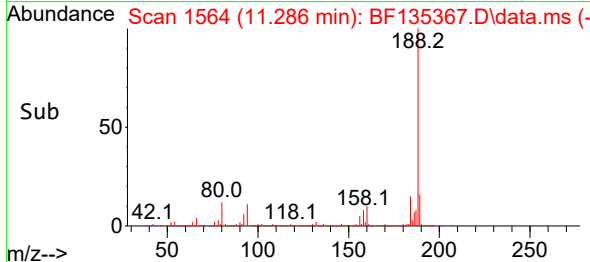
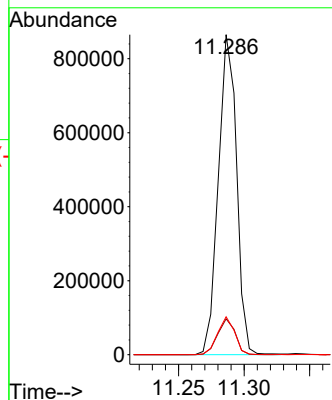
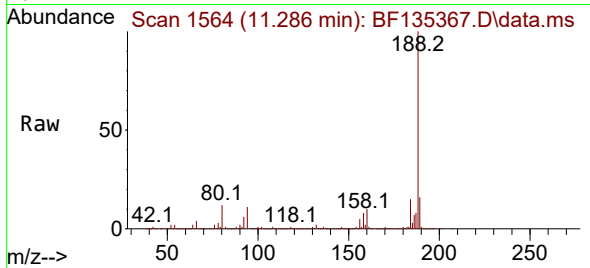




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

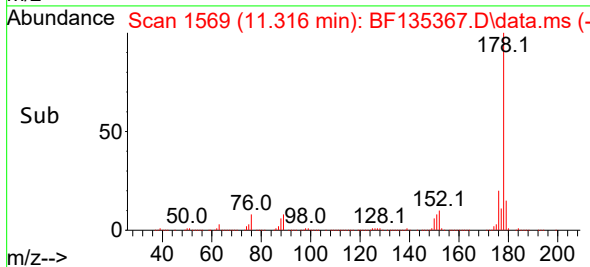
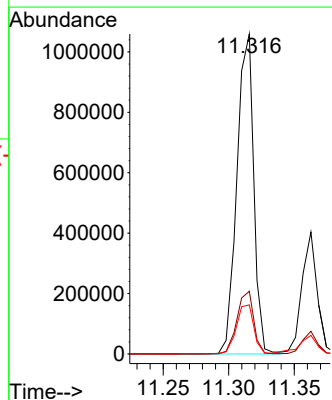
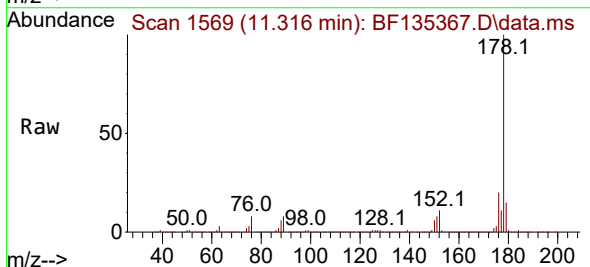
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

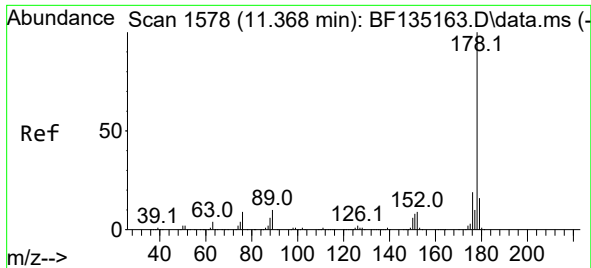
Tgt Ion:188 Resp: 834602
Ion Ratio Lower Upper
188 100
94 11.2 7.0 10.6#
80 11.8 7.5 11.3#



#71
Phenanthrene
Concen: 24.028 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:178 Resp: 948452
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.4 12.0 18.0

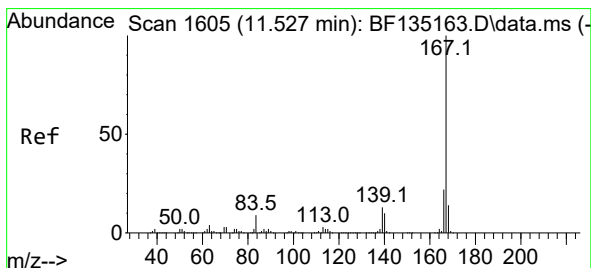
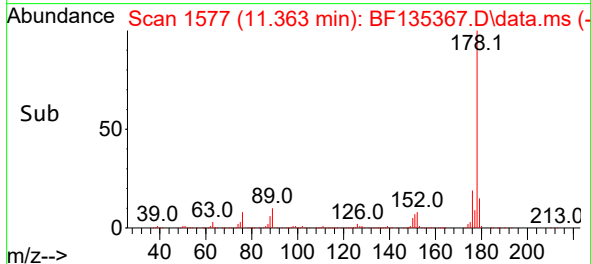
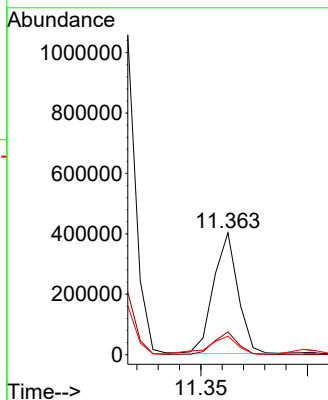
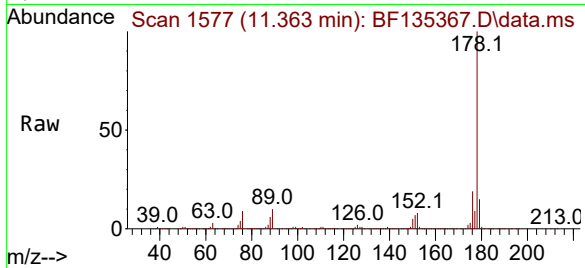




#72
 Anthracene
 Concen: 7.850 ng
 RT: 11.363 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135367.D
 Acq: 20 Sep 2023 20:18

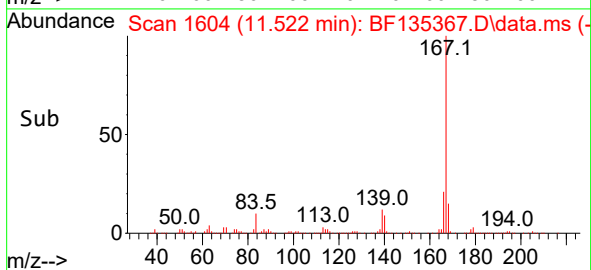
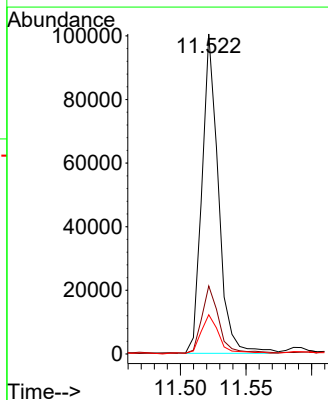
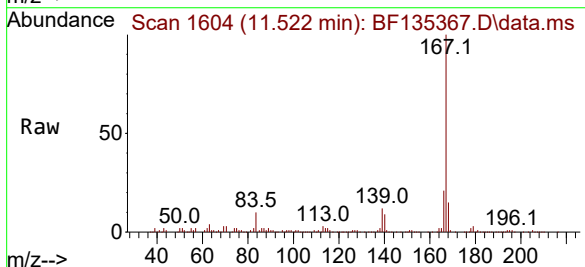
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023DL

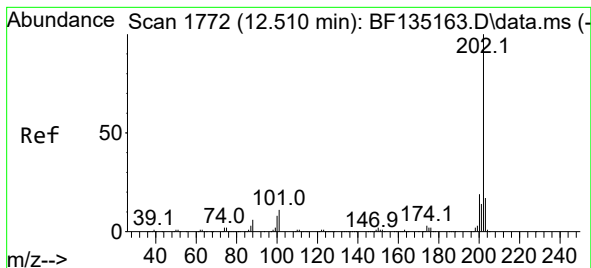
Tgt Ion:178 Resp: 318501
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 15.2 12.6 19.0



#73
 Carbazole
 Concen: 2.380 ng
 RT: 11.522 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135367.D
 Acq: 20 Sep 2023 20:18

Tgt Ion:167 Resp: 87911
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.4 26.0
 139 12.3 10.6 15.8





#75

Fluoranthene

Concen: 26.204 ng

RT: 12.510 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

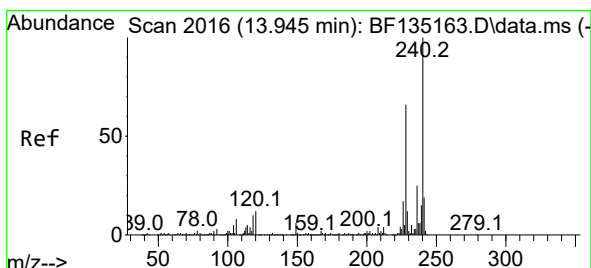
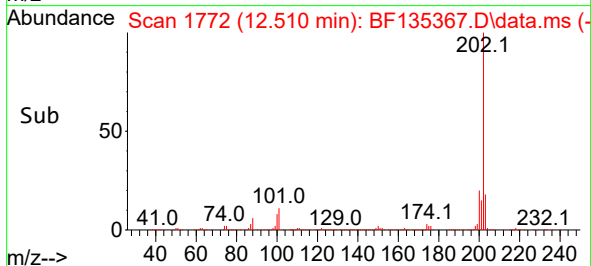
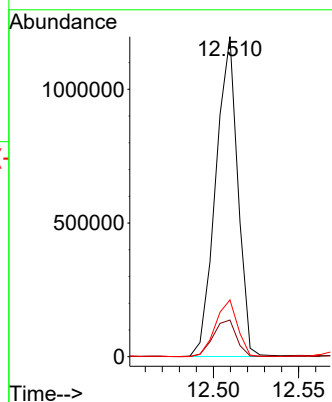
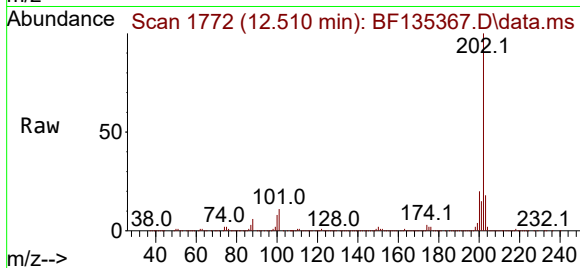
Tgt Ion:202 Resp: 1077802

Ion Ratio Lower Upper

202 100

101 11.5 0.0 31.3

203 17.8 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2017

Delta R.T. 0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

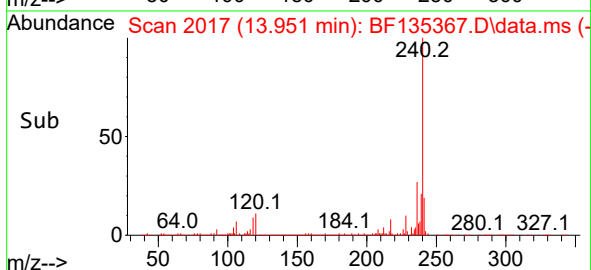
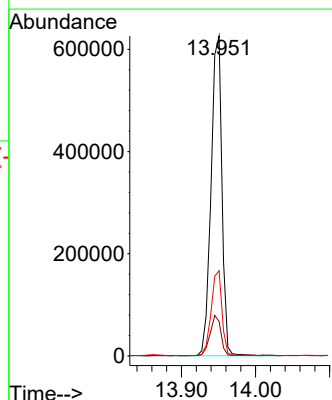
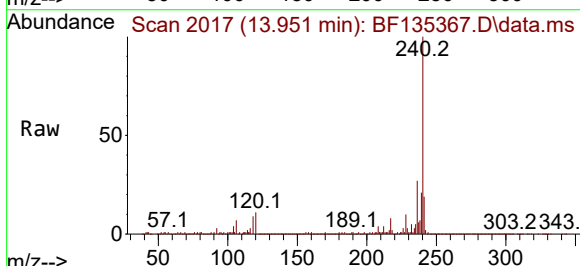
Tgt Ion:240 Resp: 638456

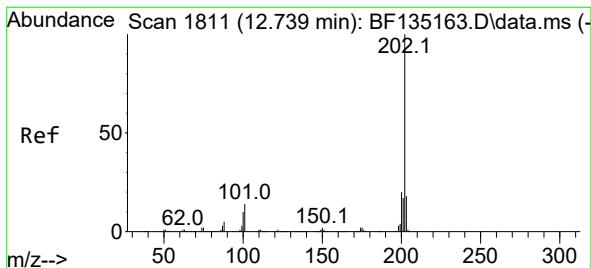
Ion Ratio Lower Upper

240 100

120 10.8 9.4 14.2

236 26.6 19.8 29.8





#78

Pyrene

Concen: 16.308 ng

RT: 12.739 min Scan# 1811

Delta R.T. 0.000 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

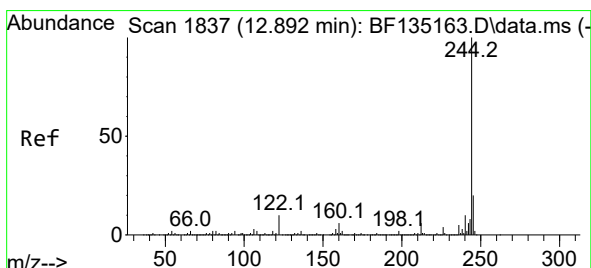
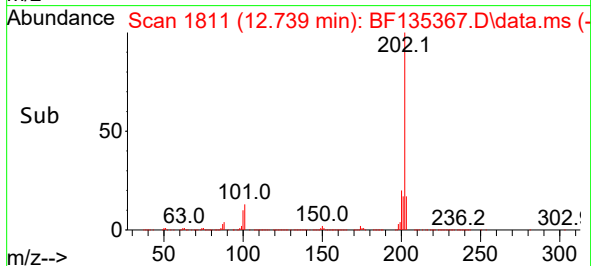
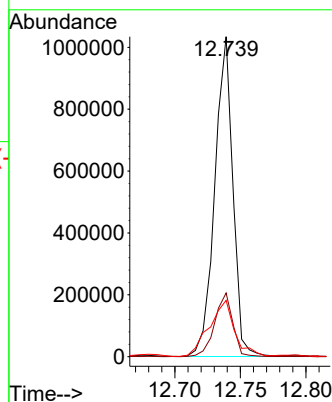
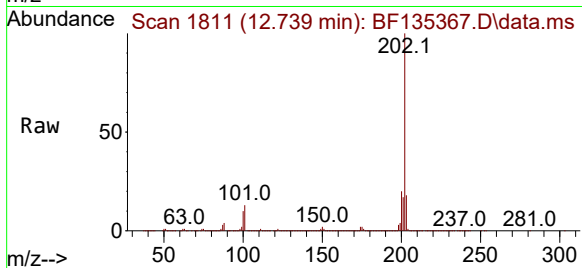
Tgt Ion:202 Resp: 991288

Ion Ratio Lower Upper

202 100

200 19.9 16.2 24.2

203 17.6 14.2 21.4



#79

Terphenyl-d14

Concen: 2.755 ng

RT: 12.880 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

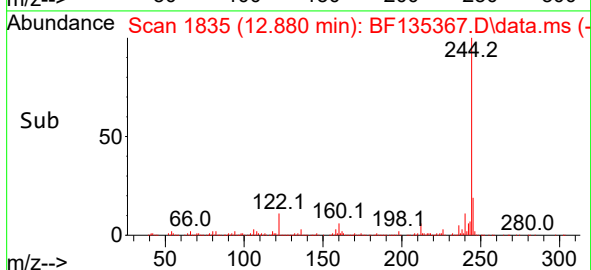
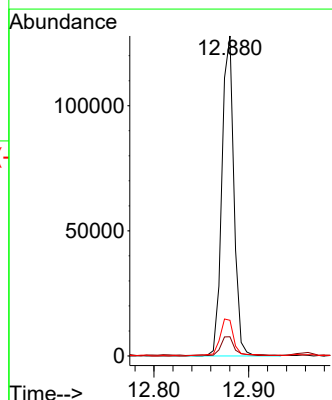
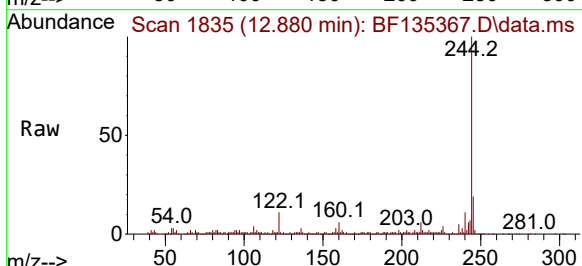
Tgt Ion:244 Resp: 113451

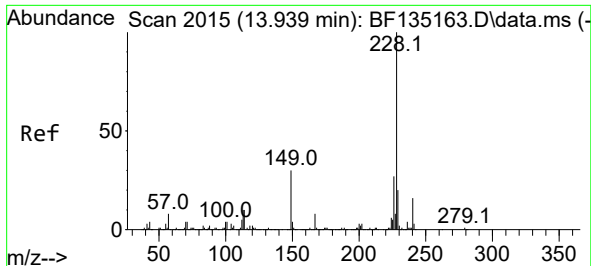
Ion Ratio Lower Upper

244 100

212 6.0 5.1 7.7

122 11.1 7.9 11.9

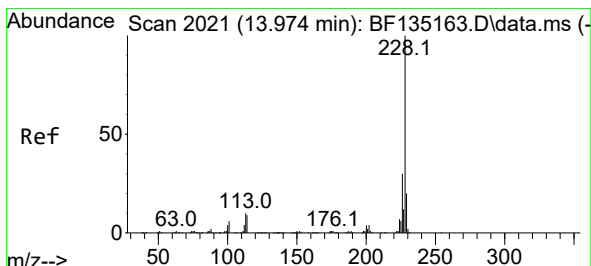
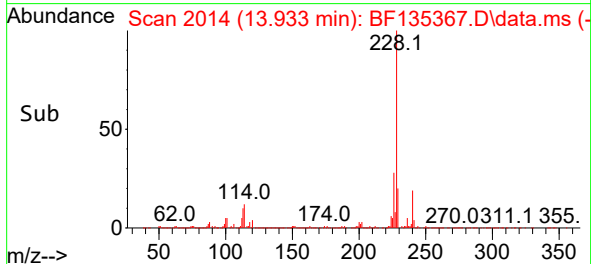
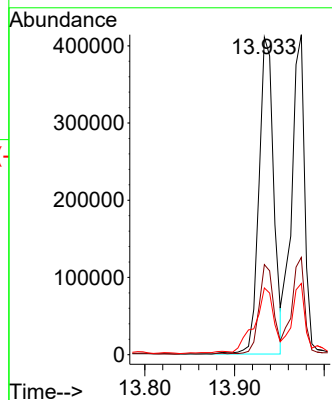
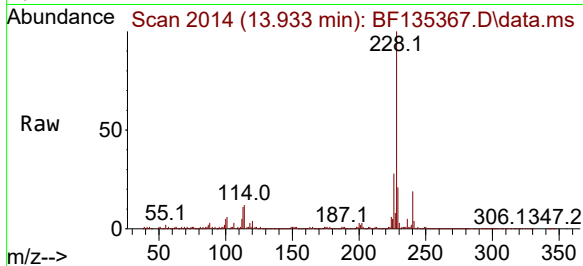




#81
Benzo(a)anthracene
Concen: 11.390 ng
RT: 13.933 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

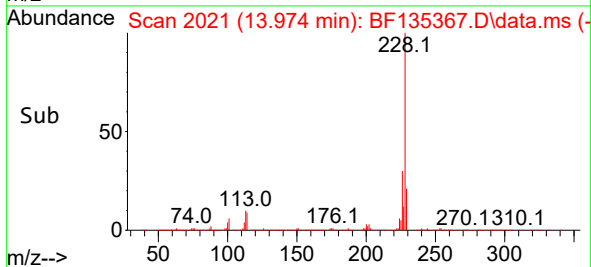
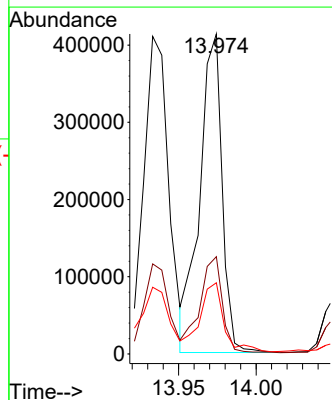
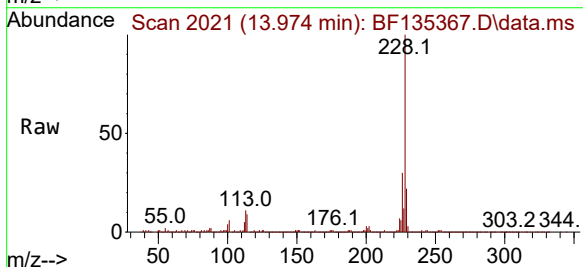
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

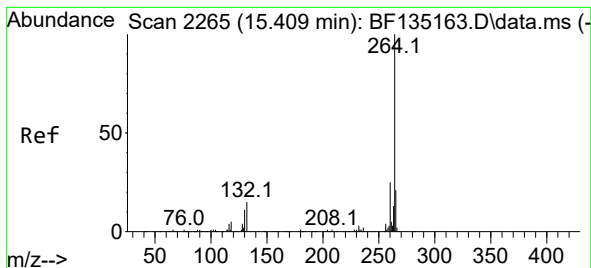
Tgt Ion:228 Resp: 469585
Ion Ratio Lower Upper
228 100
226 28.4 21.7 32.5
229 21.0 15.8 23.8



#83
Chrysene
Concen: 10.141 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:228 Resp: 415652
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 22.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

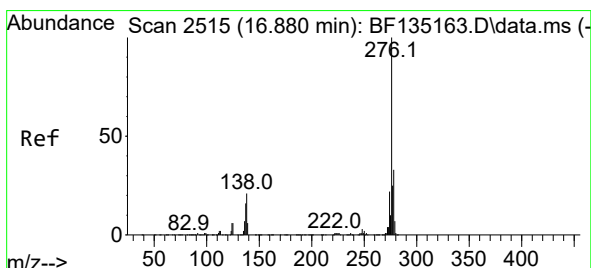
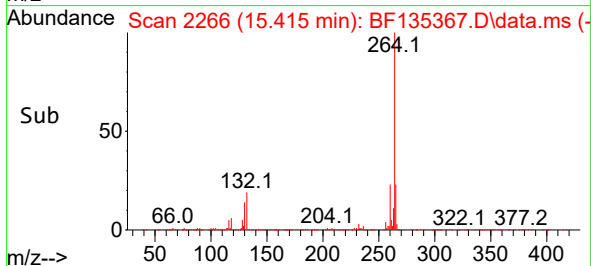
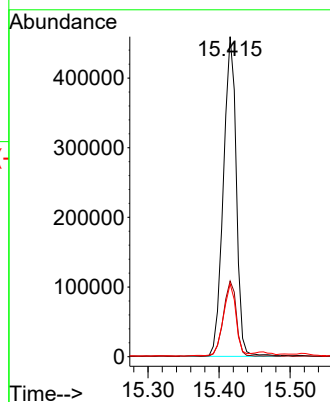
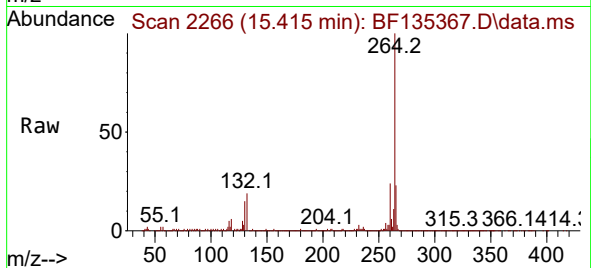
Tgt Ion:264 Resp: 577301

Ion Ratio Lower Upper

264 100

260 23.6 19.8 29.6

265 22.7 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.525 ng

RT: 16.892 min Scan# 2517

Delta R.T. 0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

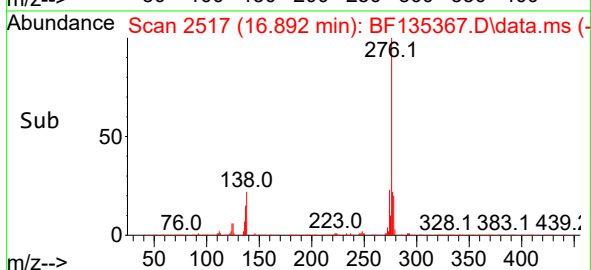
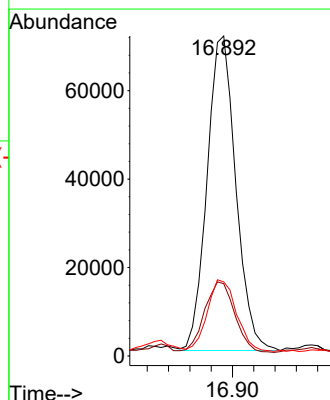
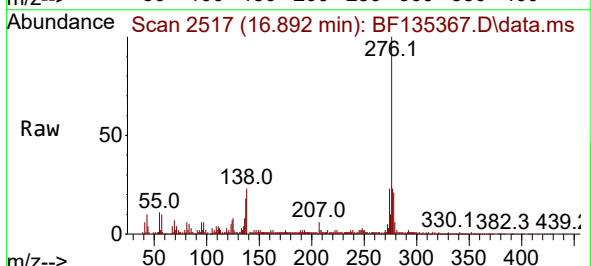
Tgt Ion:276 Resp: 133446

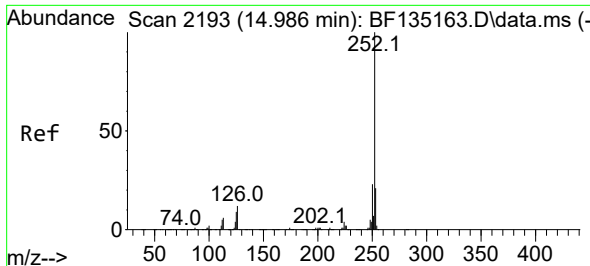
Ion Ratio Lower Upper

276 100

138 23.6 19.2 28.8

277 22.9 19.7 29.5

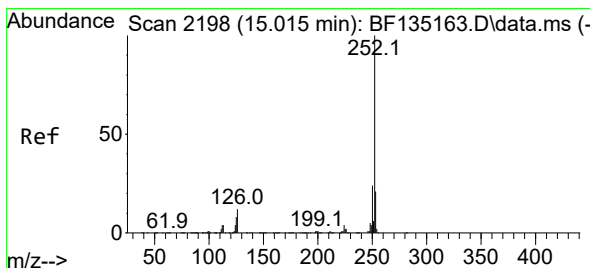
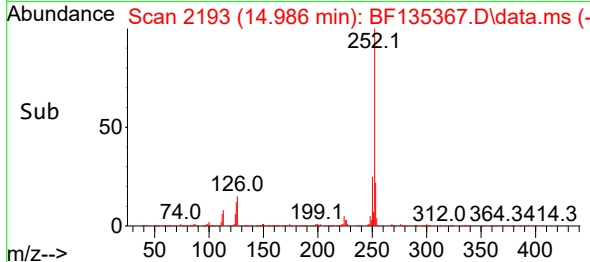
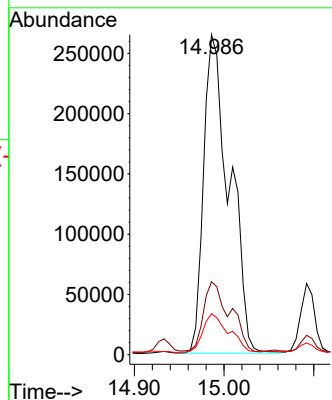
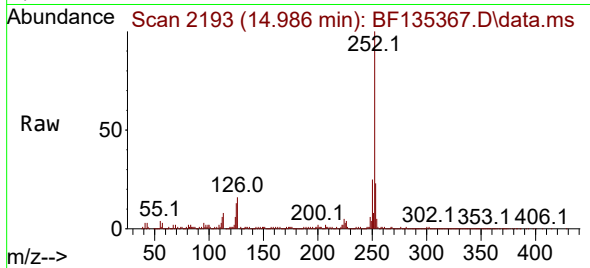




#88
Benzo(b)fluoranthene
Concen: 16.953 ng
RT: 14.986 min Scan# 2193
Delta R.T. 0.000 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

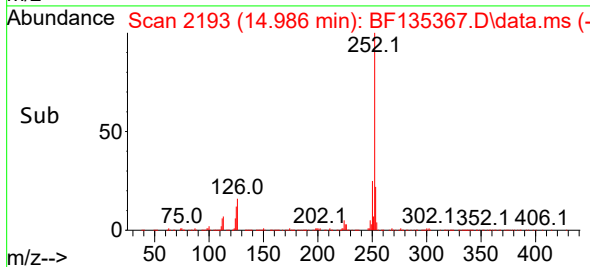
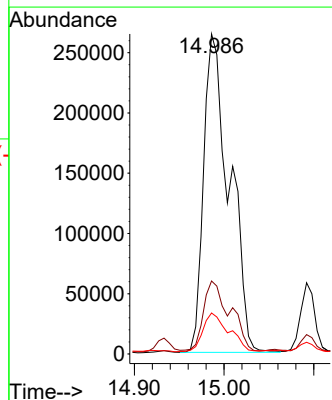
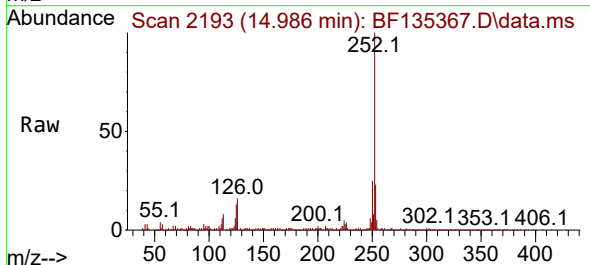
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023DL

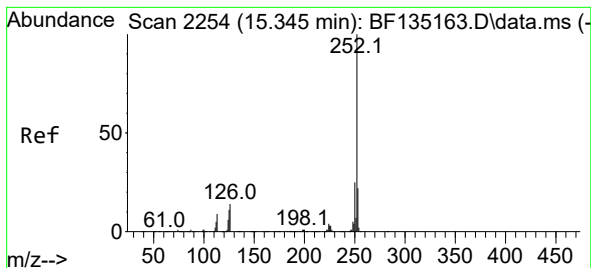
Tgt Ion:252 Resp: 529791
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 12.8 7.1 10.7#



#89
Benzo(k)fluoranthene
Concen: 17.162 ng
RT: 14.986 min Scan# 2193
Delta R.T. -0.029 min
Lab File: BF135367.D
Acq: 20 Sep 2023 20:18

Tgt Ion:252 Resp: 529791
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 12.8 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 9.309 ng

RT: 15.351 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023DL

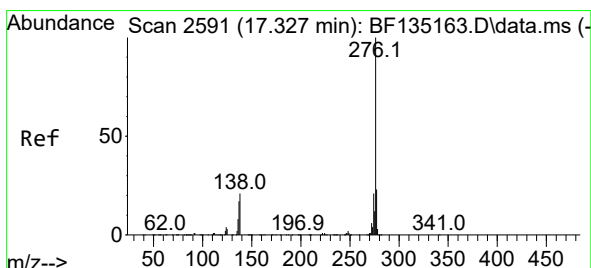
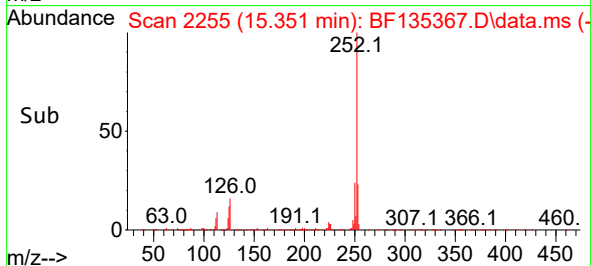
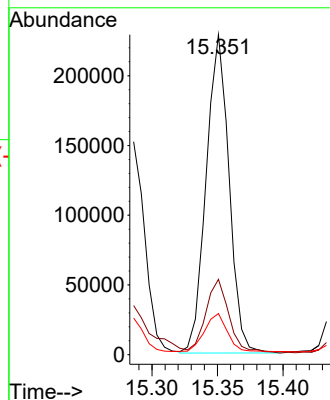
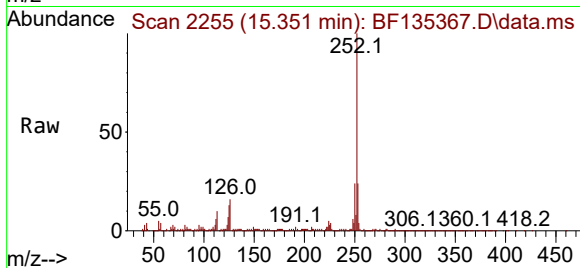
Tgt Ion:252 Resp: 277437

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

125 12.8 9.2 13.8



#92

Benzo(g,h,i)perylene

Concen: 3.932 ng

RT: 17.339 min Scan# 2593

Delta R.T. 0.012 min

Lab File: BF135367.D

Acq: 20 Sep 2023 20:18

Tgt Ion:276 Resp: 127193

Ion Ratio Lower Upper

276 100

277 24.9 18.8 28.2

138 25.8 16.9 25.3#

