

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100223\
 Data File : BF135535.D
 Acq On : 02 Oct 2023 19:18
 Operator : CG\JU
 Sample : 04636-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023

Quant Time: Oct 03 02:57:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

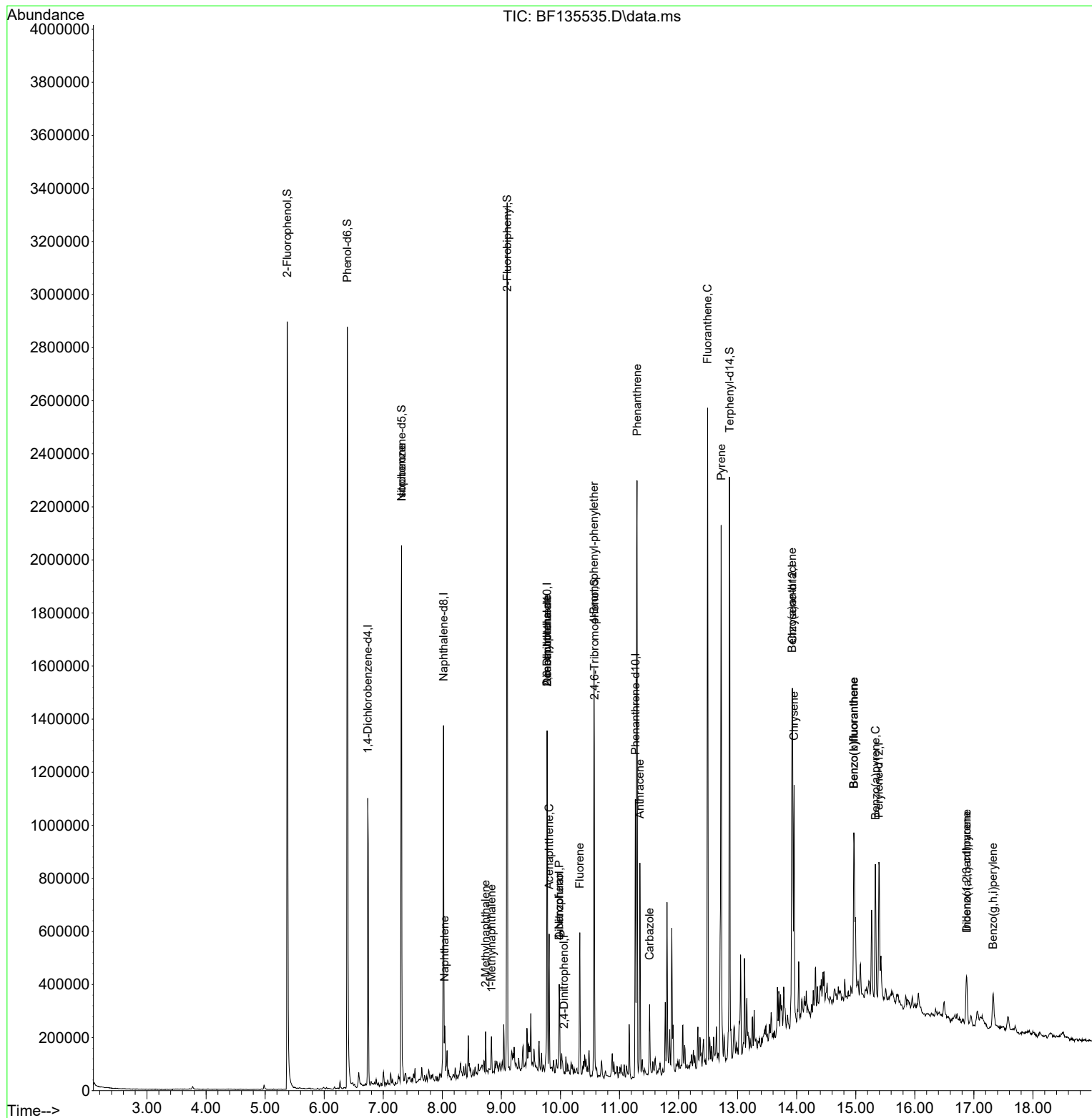
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	157825	20.000	ng	-0.01
21) Naphthalene-d8	8.022	136	561700	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	241324	20.000	ng	-0.01
64) Phenanthrene-d10	11.269	188	385562	20.000	ng	# 0.00
76) Chrysene-d12	13.927	240	280231	20.000	ng	# 0.00
86) Perylene-d12	15.392	264	254698	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	843526	86.929	ng	0.00
7) Phenol-d6	6.392	99	1042029	84.452	ng	-0.01
23) Nitrobenzene-d5	7.310	82	623420	60.299	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	160445	66.903	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	969475	60.610	ng	-0.01
79) Terphenyl-d14	12.863	244	768126	42.491	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.310	82	621291	32.726	ng	# 65
31) Naphthalene	8.039	128	73696	2.700	ng	99
37) 2-Methylnaphthalene	8.733	142	40365	2.200	ng	99
38) 1-Methylnaphthalene	8.833	142	35022	2.039	ng	97
50) Dimethylphthalate	9.775	163	45365	2.780	ng	# 1
51) 2,6-Dinitrotoluene	9.775	165	33270	9.308	ng	# 17
52) Acenaphthene	9.810	154	97050	7.346	ng	100
54) 2,4-Dinitrophenol	10.063	184	197	6.337	ng	# 7
55) Dibenzofuran	9.980	168	108519	5.383	ng	97
56) 4-Nitrophenol	9.980	139	38475	14.429	ng	# 6
58) Fluorene	10.327	166	146863	9.477	ng	98
67) 4-Bromophenyl-phenylether	10.569	248	10658	2.779	ng	# 1
71) Phenanthrene	11.298	178	845010	46.339	ng	99
72) Anthracene	11.345	178	285607	15.237	ng	97
73) Carbazole	11.510	167	95156	5.577	ng	98
75) Fluoranthene	12.492	202	967846	50.936	ng	98
78) Pyrene	12.721	202	840447	31.501	ng	99
81) Benzo(a)anthracene	13.921	228	403937	22.323	ng	99
83) Chrysene	13.957	228	369833	20.557	ng	98
87) Indeno(1,2,3-cd)pyrene	16.874	276	118137	7.074	ng	99
88) Benzo(b)fluoranthene	14.968	252	463783	33.637	ng	# 94
89) Benzo(k)fluoranthene	14.968	252	463783	34.052	ng	# 95
90) Benzo(a)pyrene	15.333	252	239881	18.244	ng	96
91) Dibenzo(a,h)anthracene	16.880	278	29385	2.151	ng	# 87
92) Benzo(g,h,i)perylene	17.327	276	110061	7.713	ng	96

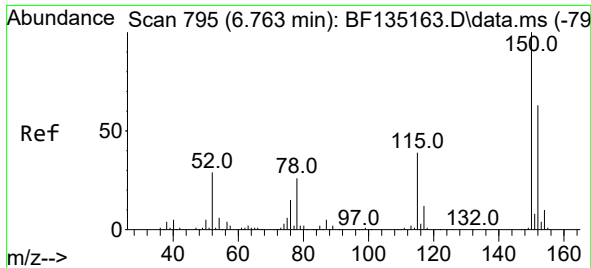
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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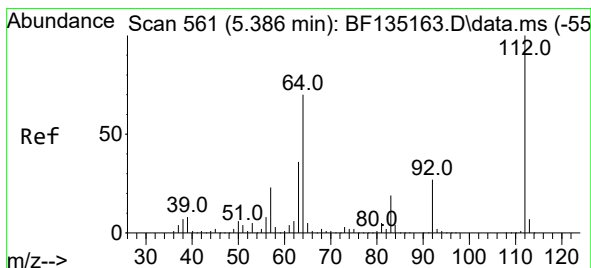
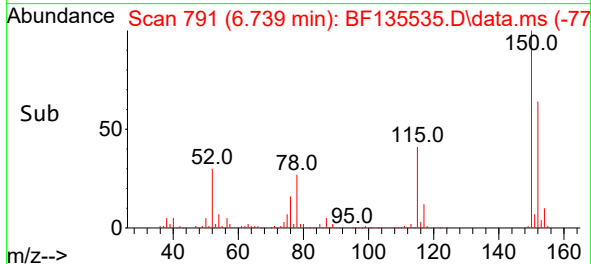
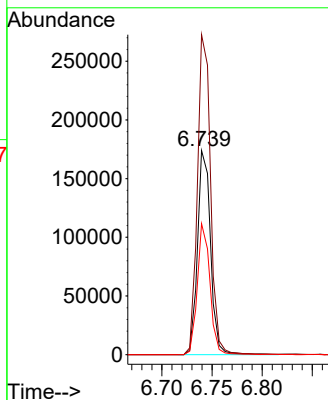
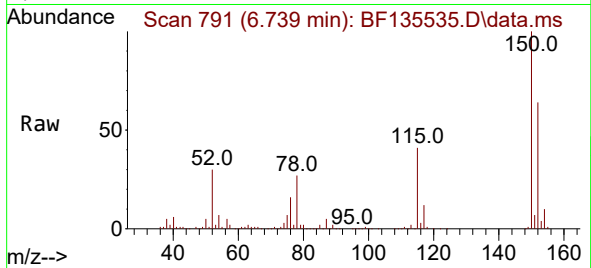




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

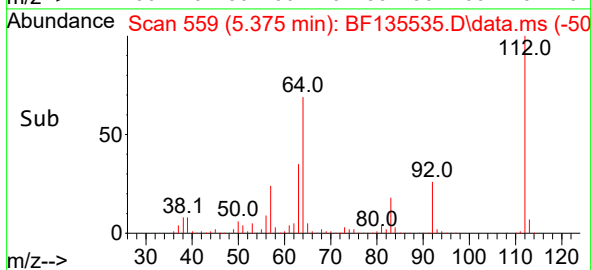
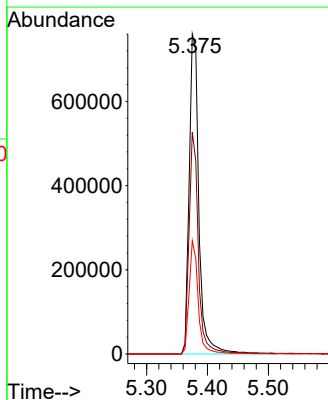
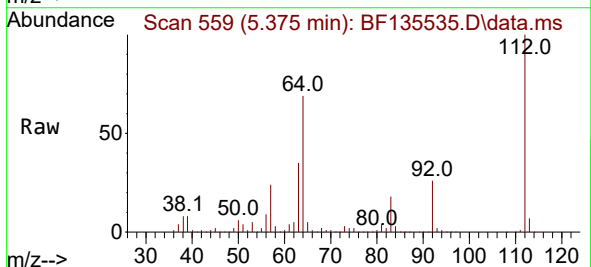
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

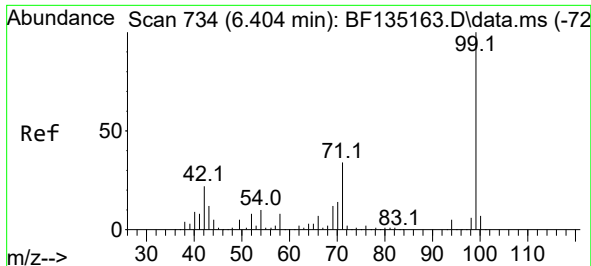
Tgt Ion:152 Resp: 157825
Ion Ratio Lower Upper
152 100
150 156.7 127.8 191.6
115 64.1 49.8 74.8



#5
2-Fluorophenol
Concen: 86.929 ng
RT: 5.375 min Scan# 559
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:112 Resp: 843526
Ion Ratio Lower Upper
112 100
64 69.4 55.9 83.9
63 35.4 29.0 43.6

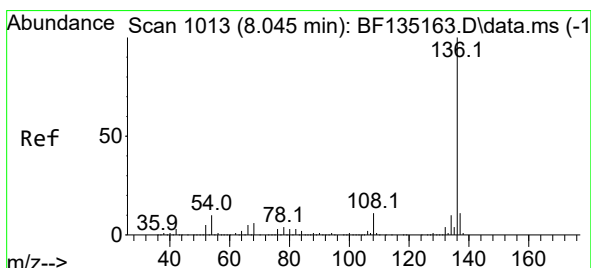
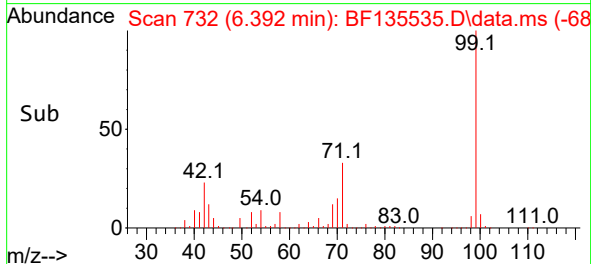
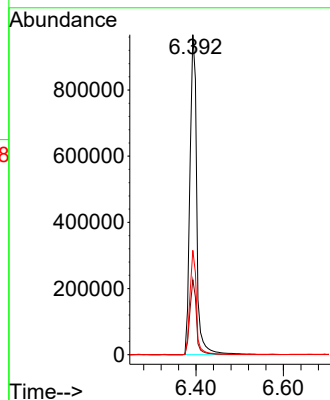
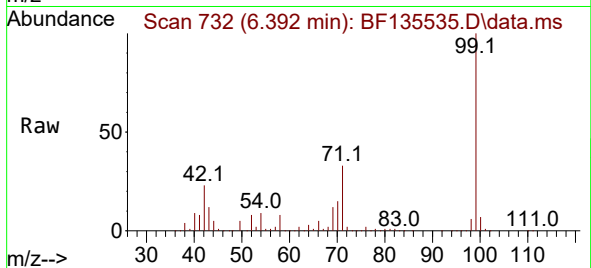




#7
Phenol-d6
Concen: 84.452 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

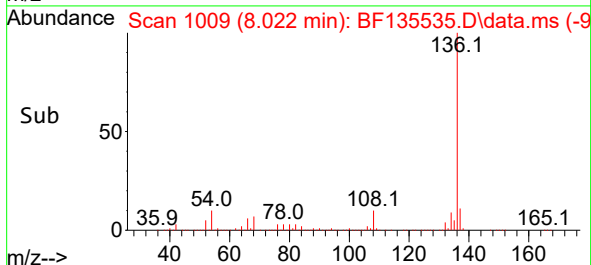
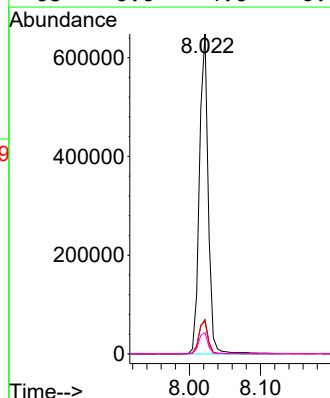
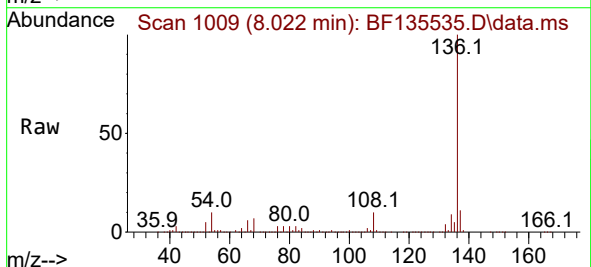
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

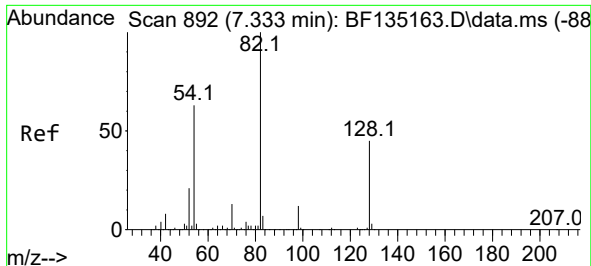
Tgt Ion: 99 Resp: 1042029
Ion Ratio Lower Upper
99 100
42 23.4 17.9 26.9
71 32.6 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion: 136 Resp: 561700
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.0 7.7 11.5
68 6.6 4.6 6.8





#23

Nitrobenzene-d5

Concen: 60.299 ng

RT: 7.310 min Scan# 888

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

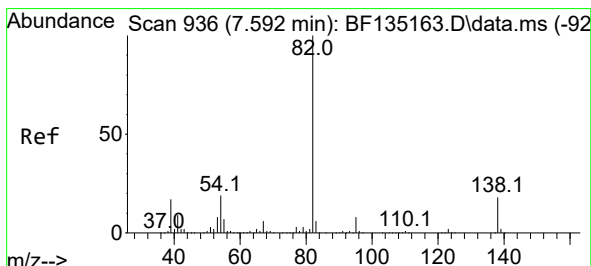
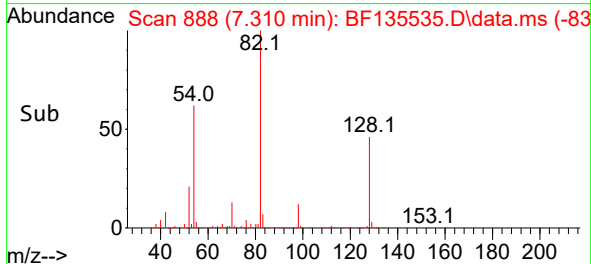
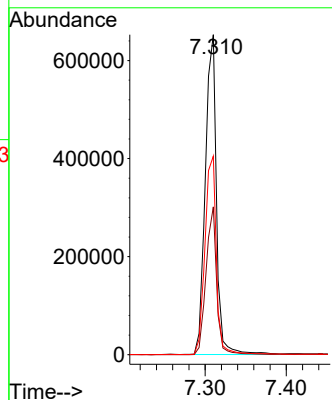
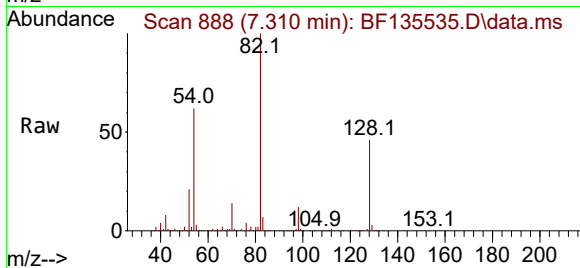
Tgt Ion: 82 Resp: 623420

Ion Ratio Lower Upper

82 100

128 46.2 35.8 53.6

54 62.0 50.6 76.0



#25

Isophorone

Concen: 32.726 ng

RT: 7.310 min Scan# 888

Delta R.T. -0.265 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

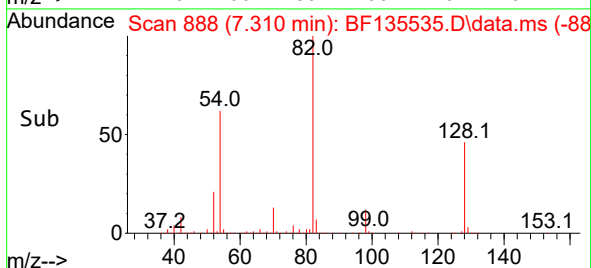
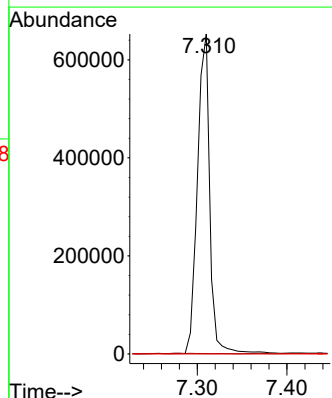
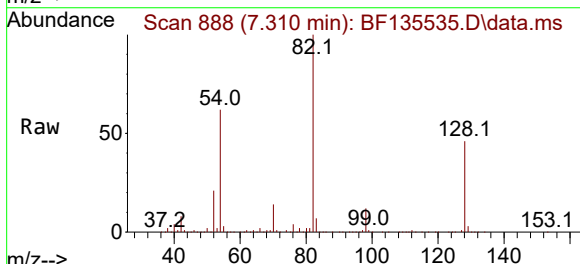
Tgt Ion: 82 Resp: 621291

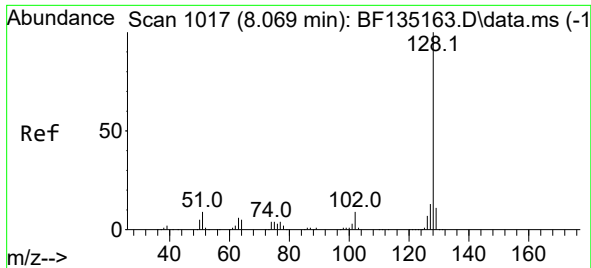
Ion Ratio Lower Upper

82 100

95 0.1 6.0 9.0#

138 0.0 14.5 21.7#

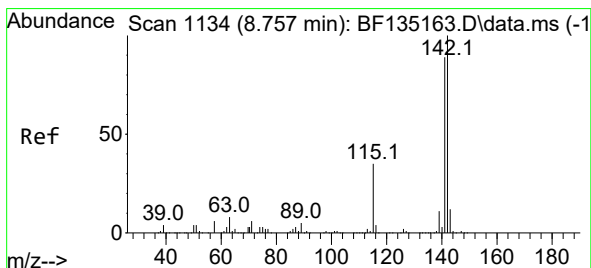
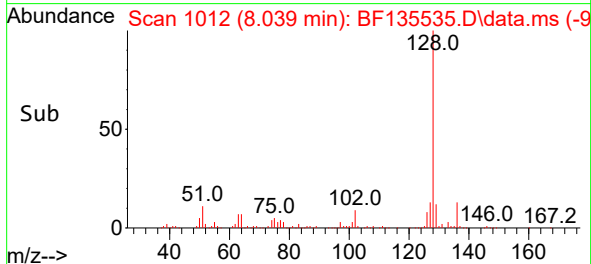
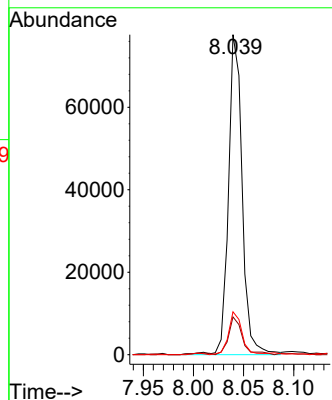
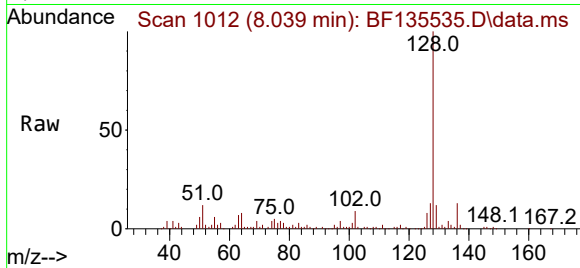




#31
Naphthalene
Concen: 2.700 ng
RT: 8.039 min Scan# 110
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

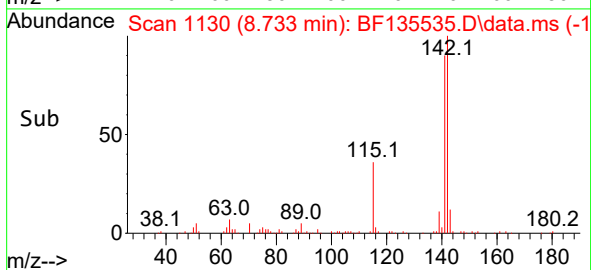
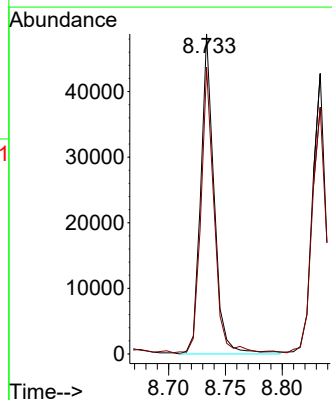
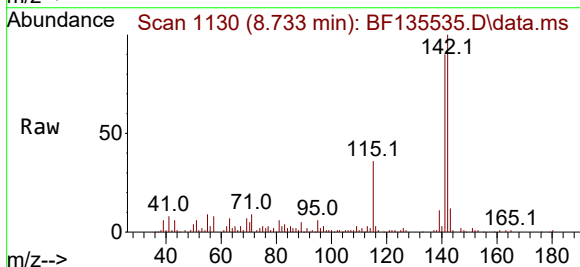
Instrument :
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OR-03-09272023

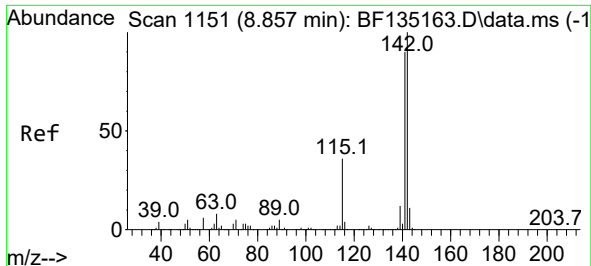
Tgt Ion:128 Resp: 73696
Ion Ratio Lower Upper
128 100
129 11.8 8.7 13.1
127 13.4 10.7 16.1



#37
2-Methylnaphthalene
Concen: 2.200 ng
RT: 8.733 min Scan# 1130
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:142 Resp: 40365
Ion Ratio Lower Upper
142 100
141 89.6 71.0 106.6





#38

1-Methylnaphthalene

Concen: 2.039 ng

RT: 8.833 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

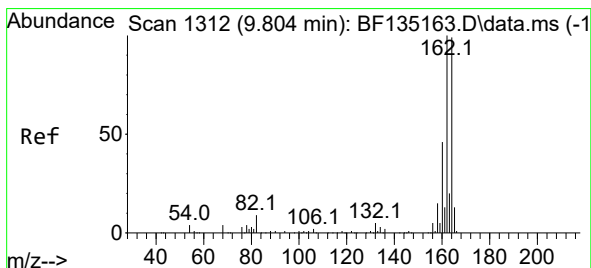
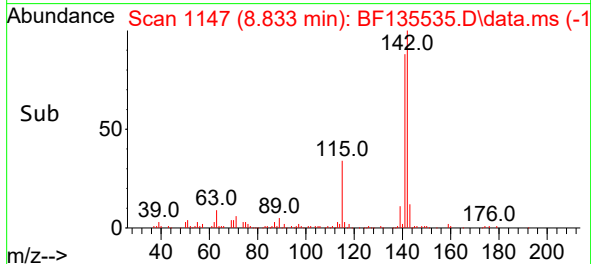
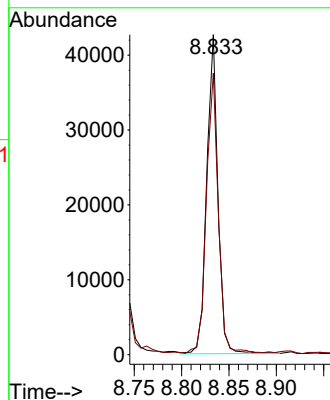
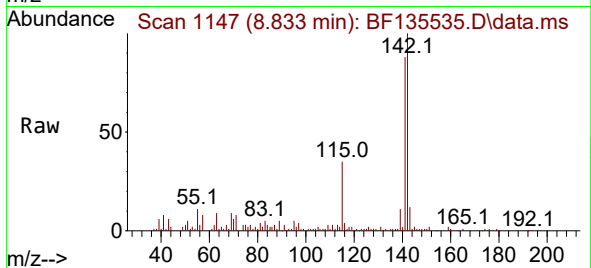
OR-03-09272023

Tgt Ion:142 Resp: 35022

Ion Ratio Lower Upper

142 100

141 88.0 72.4 108.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1307

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

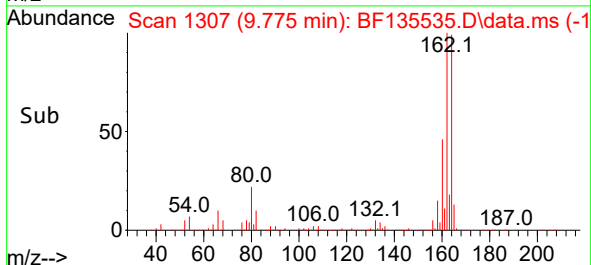
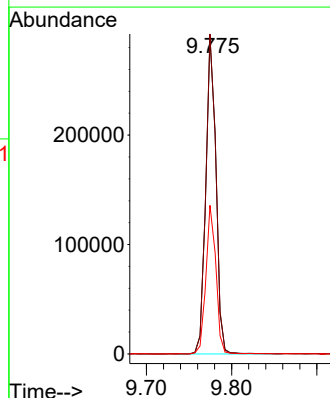
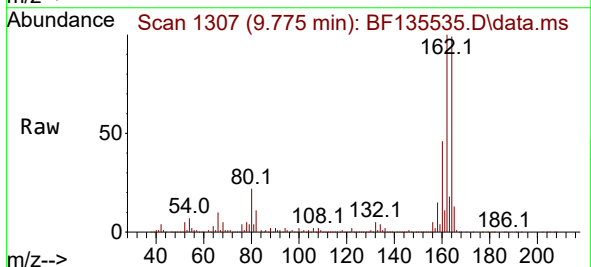
Tgt Ion:164 Resp: 241324

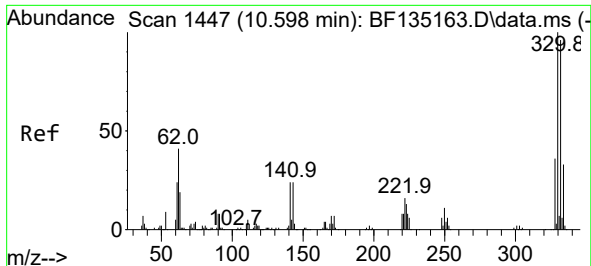
Ion Ratio Lower Upper

164 100

162 101.0 81.0 121.4

160 46.9 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 66.903 ng

RT: 10.575 min Scan# 1443

Delta R.T. -0.006 min

Lab File: BF135535.D

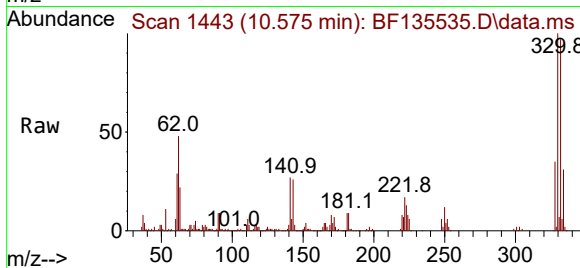
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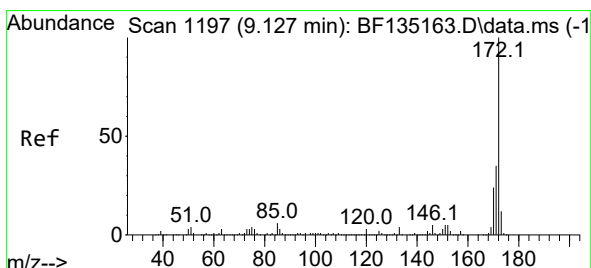
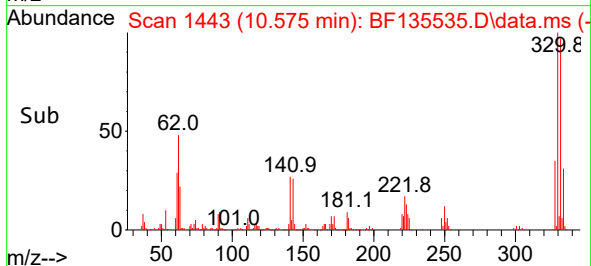
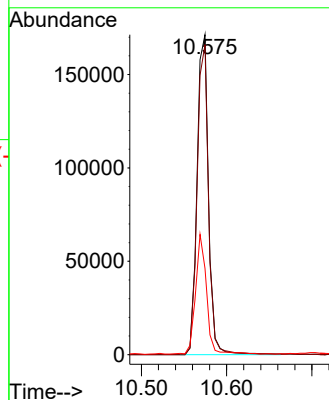
Tgt Ion:330 Resp: 160445

Ion Ratio Lower Upper

330 100

332 96.1 77.3 115.9

141 35.5 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 60.610 ng

RT: 9.098 min Scan# 1192

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

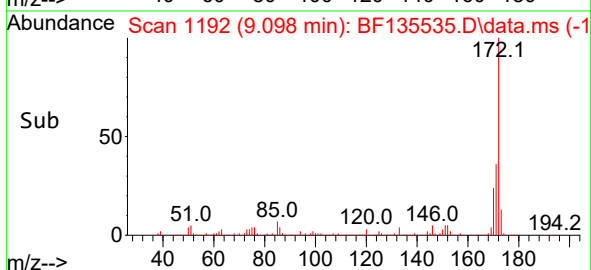
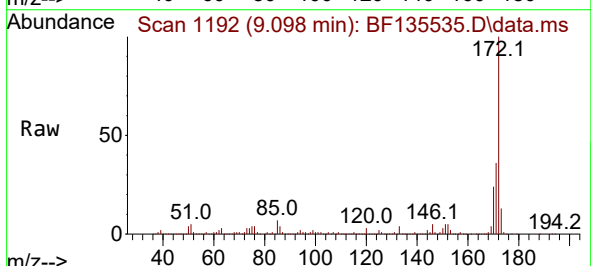
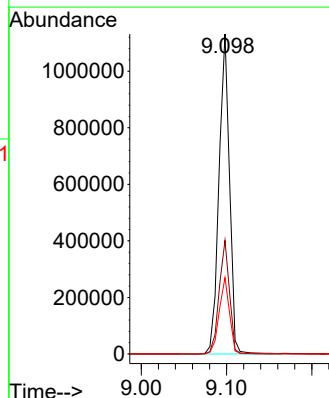
Tgt Ion:172 Resp: 969475

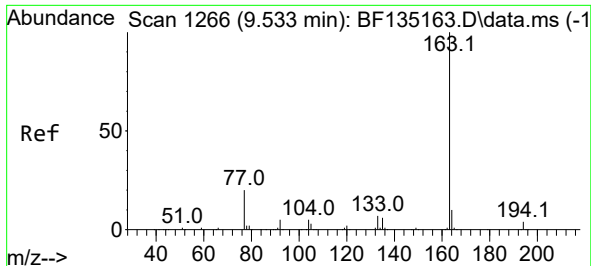
Ion Ratio Lower Upper

172 100

171 35.5 28.4 42.6

170 23.9 19.0 28.4

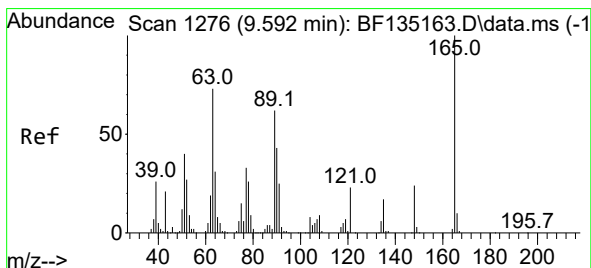
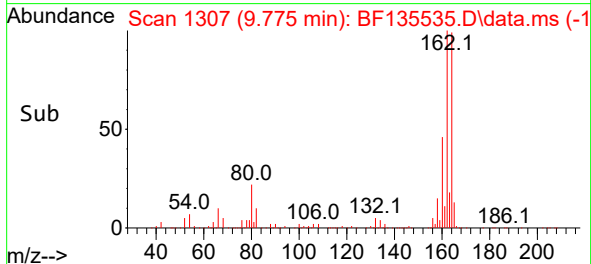
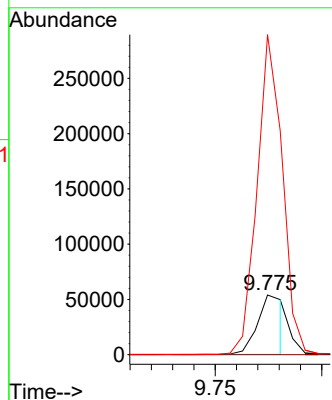
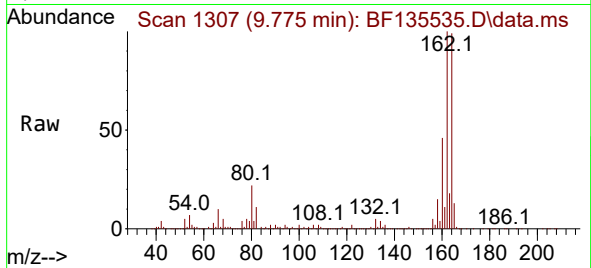




#50
Dimethylphthalate
Concen: 2.780 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.259 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

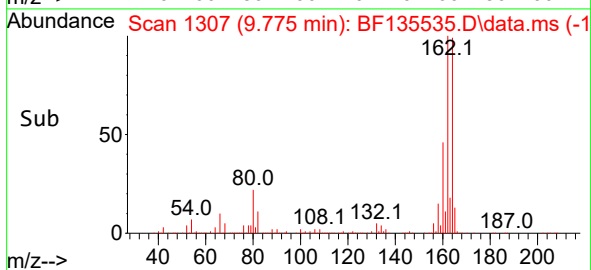
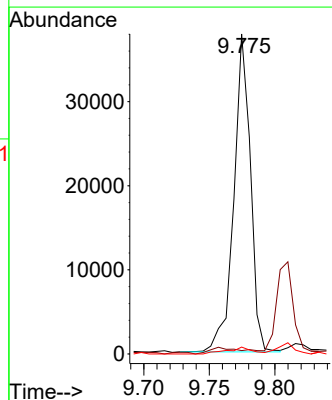
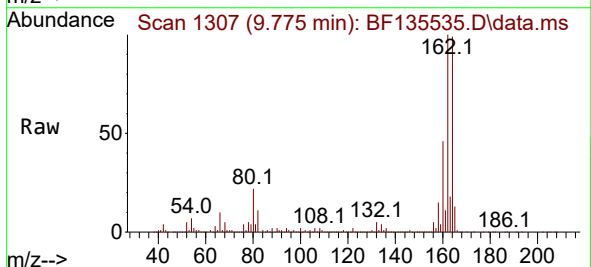
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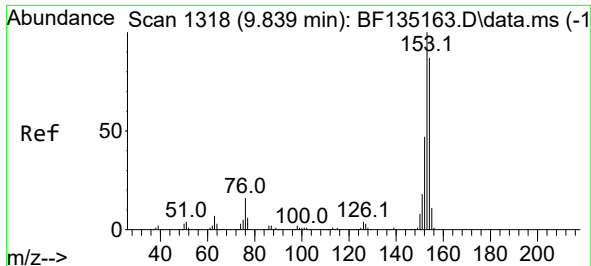
Tgt Ion:163 Resp: 45365
Ion Ratio Lower Upper
163 100
194 0.0 3.1 4.7#
164 535.6 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 9.308 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.188 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:165 Resp: 33270
Ion Ratio Lower Upper
165 100
63 1.0 59.4 89.2#
89 2.2 49.8 74.8#

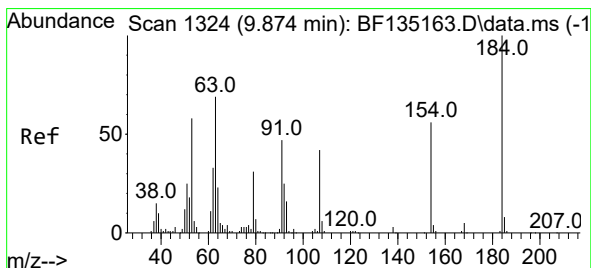
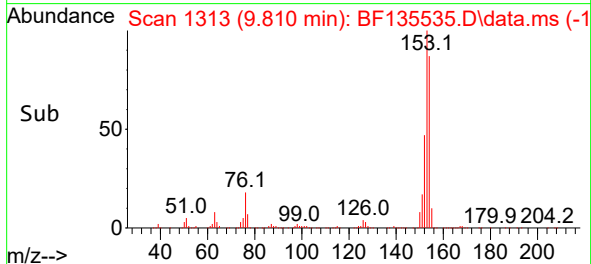
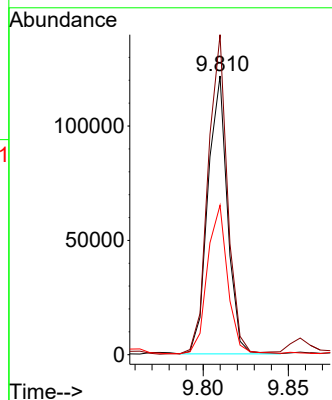
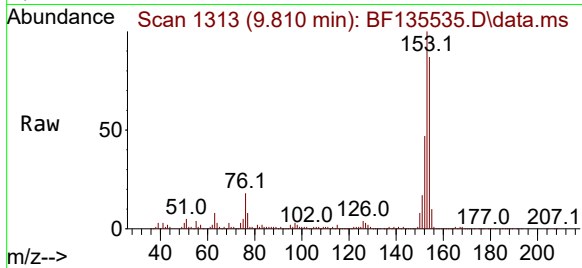




#52
Acenaphthene
Concen: 7.346 ng
RT: 9.810 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

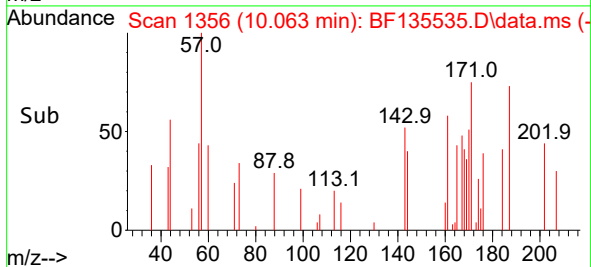
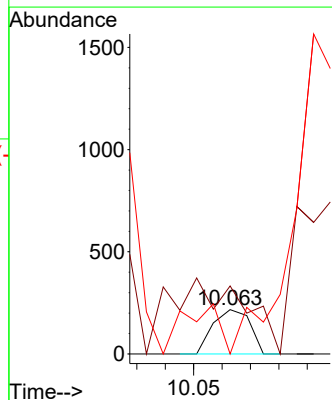
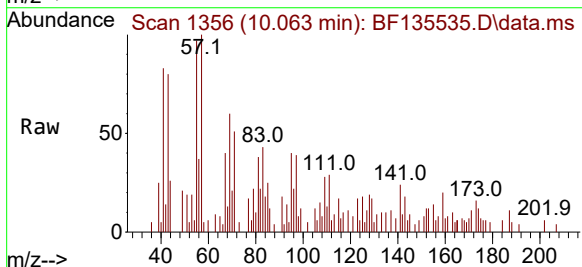
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

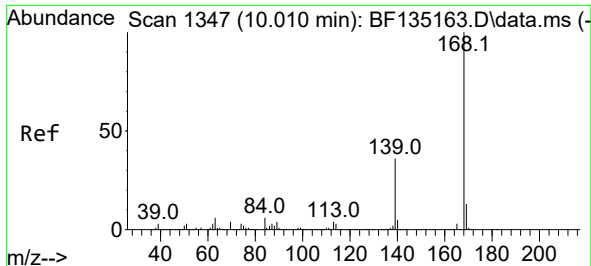
Tgt Ion:154 Resp: 97050
Ion Ratio Lower Upper
154 100
153 114.8 92.1 138.1
152 53.6 43.1 64.7



#54
2,4-Dinitrophenol
Concen: 6.337 ng
RT: 10.063 min Scan# 1356
Delta R.T. 0.194 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:184 Resp: 197
Ion Ratio Lower Upper
184 100
63 153.5 55.1 82.7#
154 0.0 48.4 72.6#





#55

Dibenzenofuran

Concen: 5.383 ng

RT: 9.980 min Scan# 1342

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

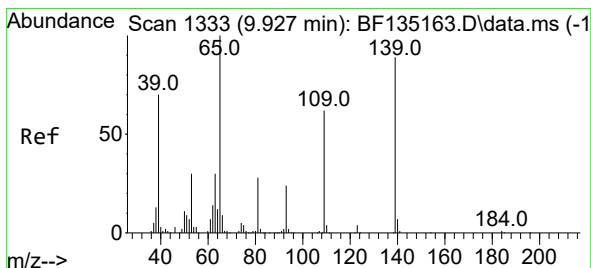
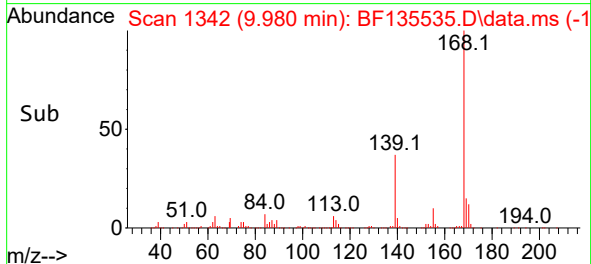
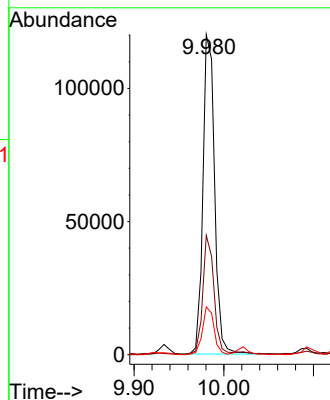
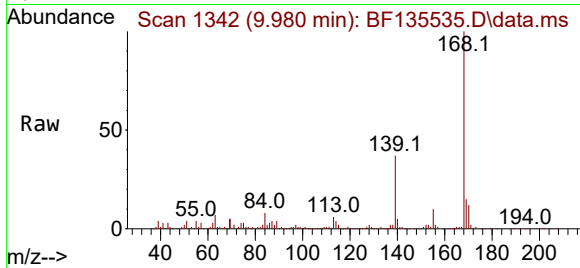
Tgt Ion:168 Resp: 108519

Ion Ratio Lower Upper

168 100

139 37.3 29.0 43.6

169 15.0 10.4 15.6



#56

4-Nitrophenol

Concen: 14.429 ng

RT: 9.980 min Scan# 1342

Delta R.T. 0.047 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

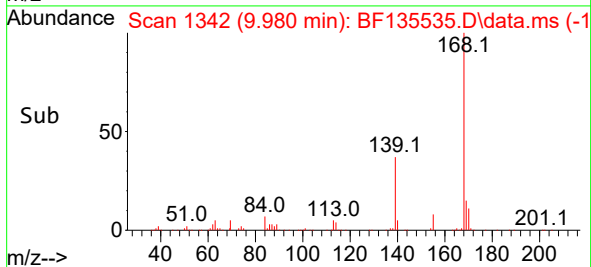
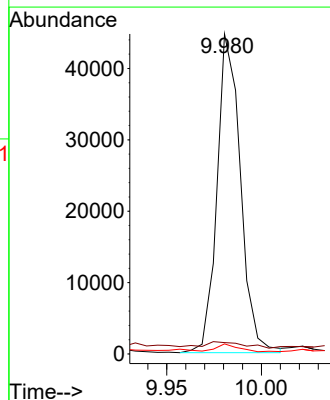
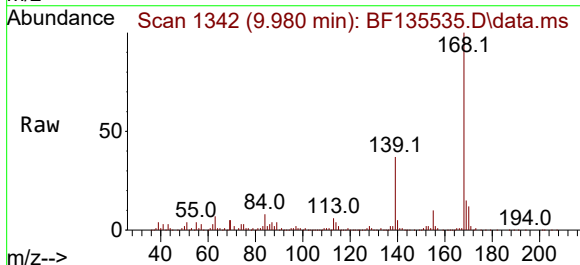
Tgt Ion:139 Resp: 38475

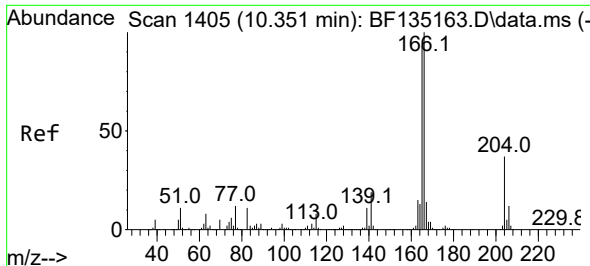
Ion Ratio Lower Upper

139 100

109 3.6 49.8 89.8#

65 3.1 92.7 132.7#

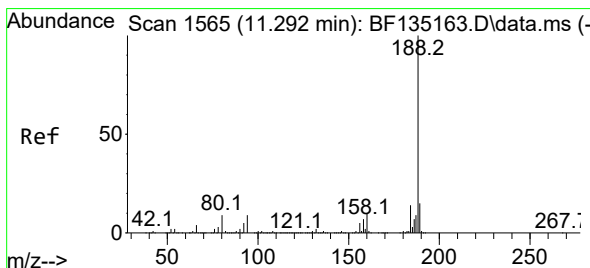
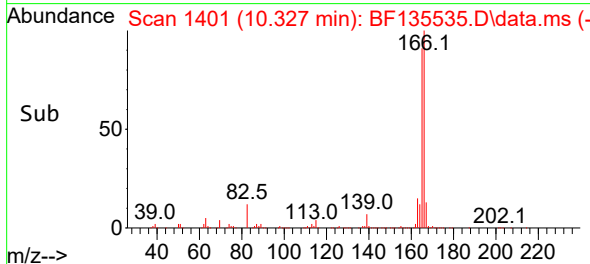
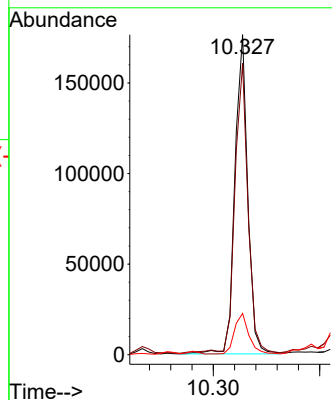
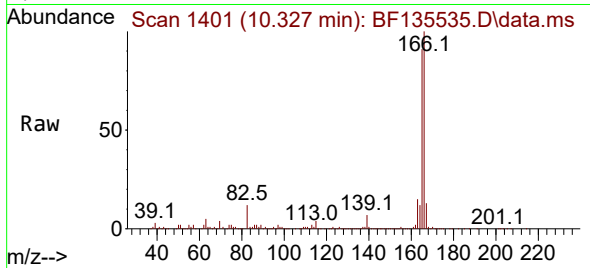




#58
Fluorene
Concen: 9.477 ng
RT: 10.327 min Scan# 1405
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

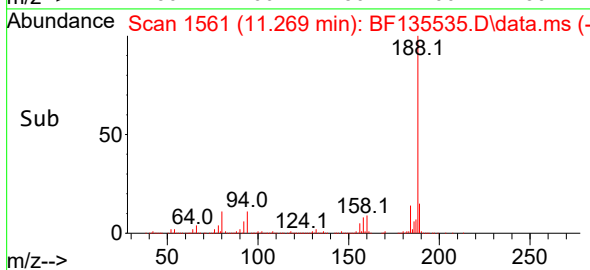
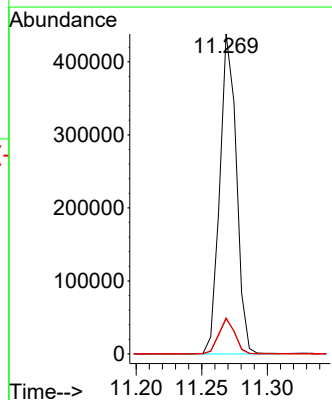
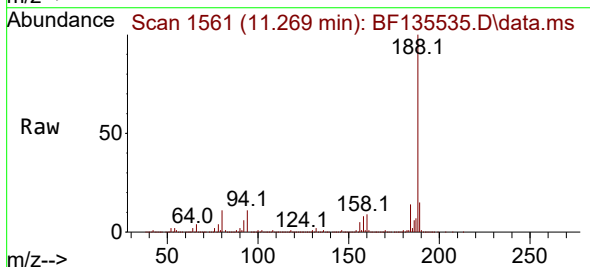
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

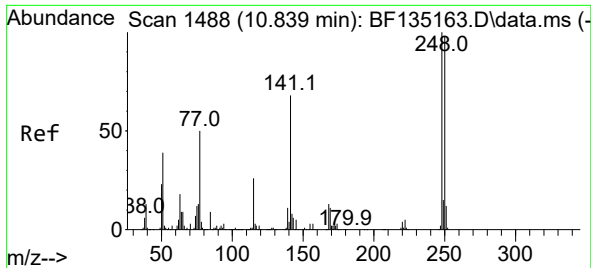
Tgt Ion:166 Resp: 146863
Ion Ratio Lower Upper
166 100
165 91.0 74.3 111.5
167 12.9 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:188 Resp: 385562
Ion Ratio Lower Upper
188 100
94 10.9 7.0 10.6#
80 11.3 7.5 11.3#

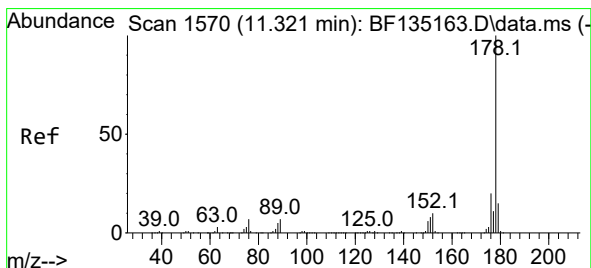
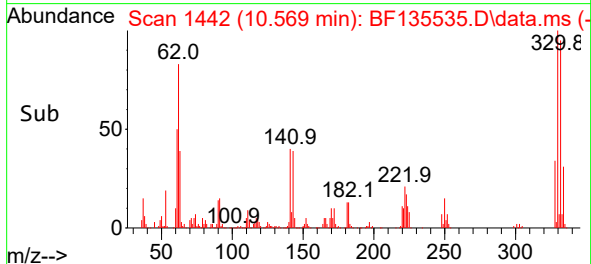
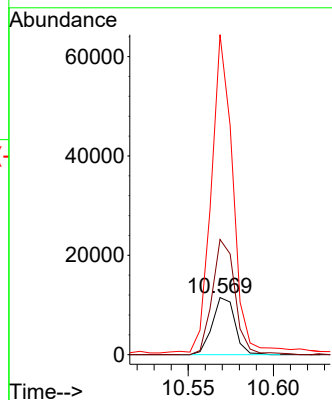
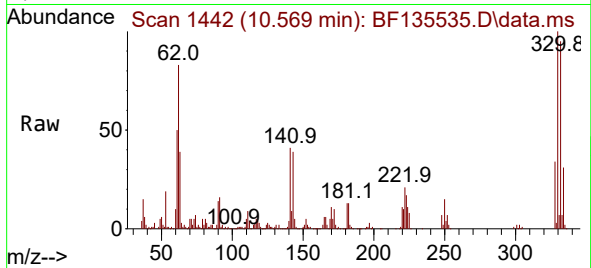




#67
4-Bromophenyl-phenylether
Concen: 2.779 ng
RT: 10.569 min Scan# 1488
Delta R.T. -0.253 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

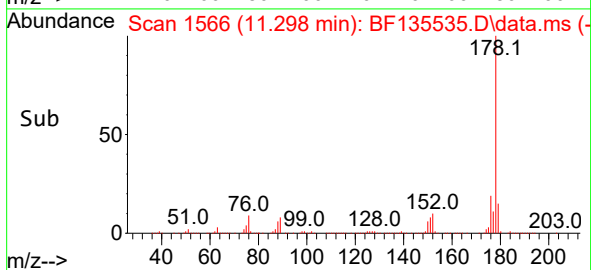
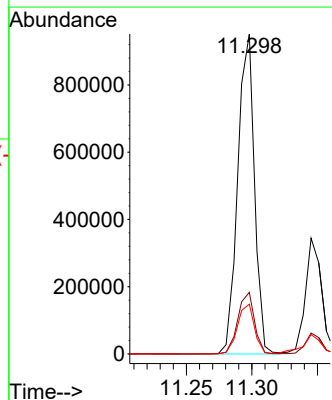
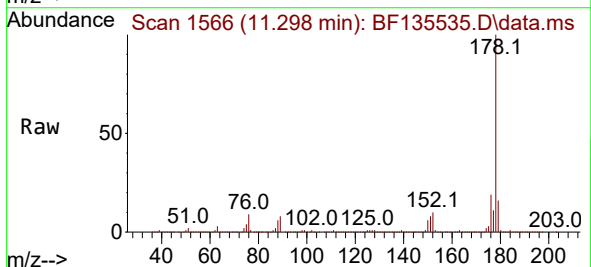
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

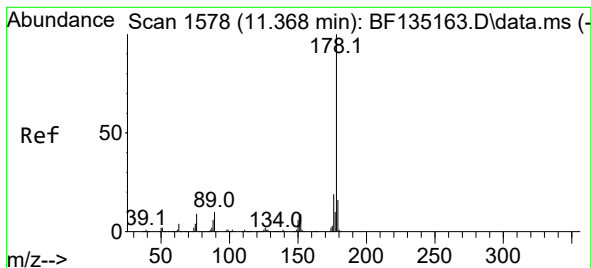
Tgt Ion:248 Resp: 10658
Ion Ratio Lower Upper
248 100
250 201.3 78.6 117.8#
141 559.4 54.2 81.2#



#71
Phenanthrene
Concen: 46.339 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:178 Resp: 845010
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.5 12.0 18.0





#72

Anthracene

Concen: 15.237 ng

RT: 11.345 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

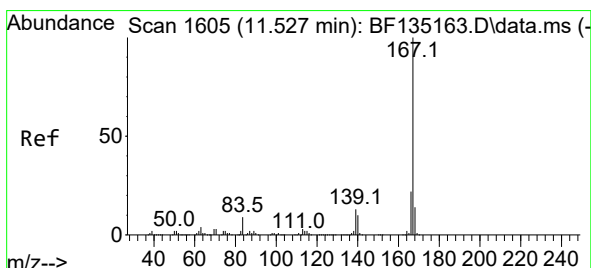
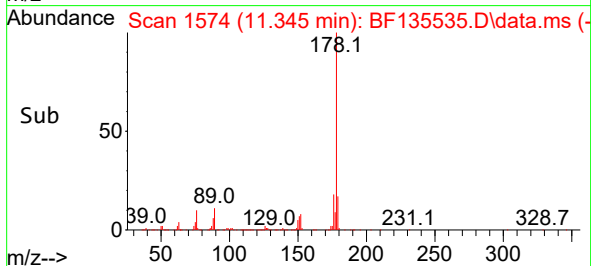
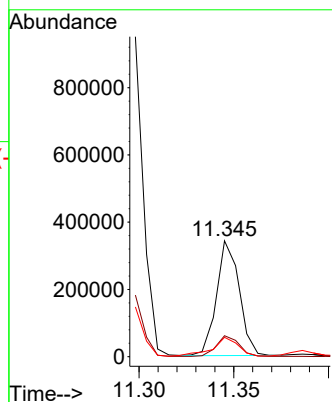
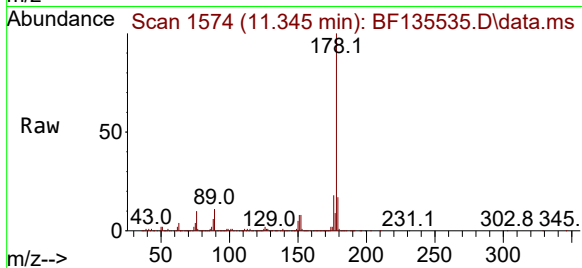
Tgt Ion:178 Resp: 285607

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

179 16.7 12.6 19.0



#73

Carbazole

Concen: 5.577 ng

RT: 11.510 min Scan# 1602

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

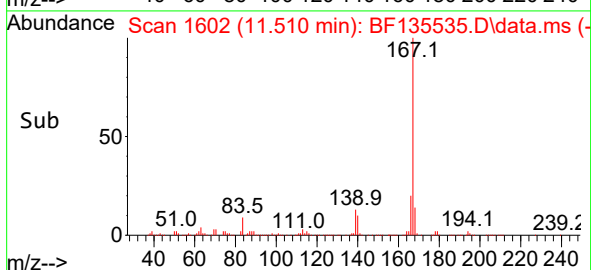
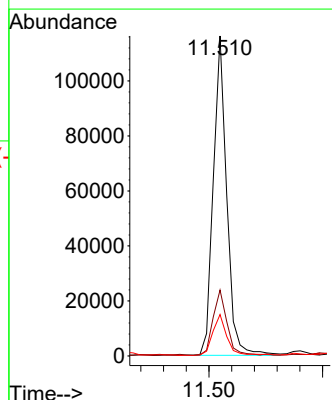
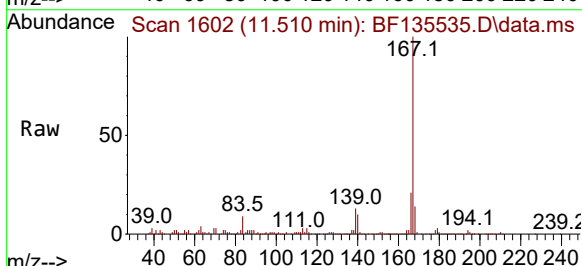
Tgt Ion:167 Resp: 95156

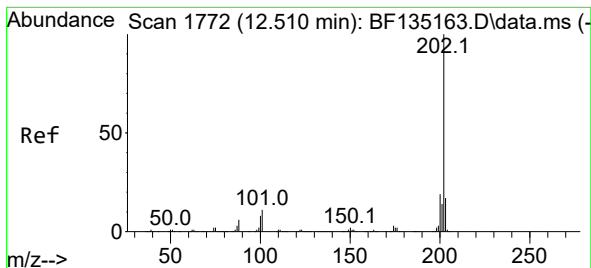
Ion Ratio Lower Upper

167 100

166 20.6 17.4 26.0

139 13.0 10.6 15.8





#75

Fluoranthene

Concen: 50.936 ng

RT: 12.492 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

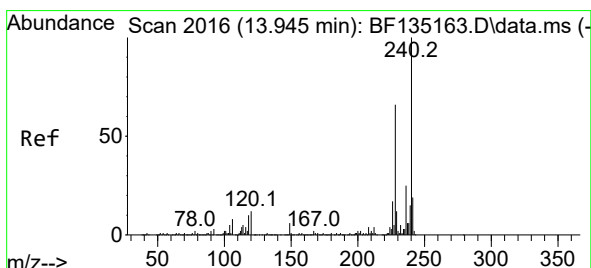
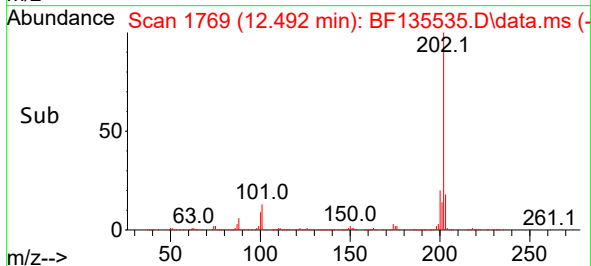
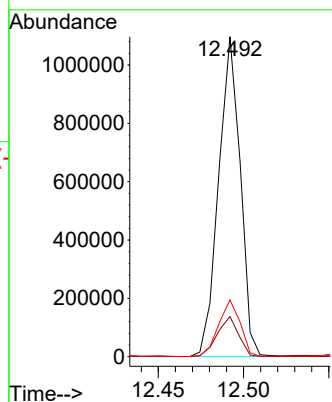
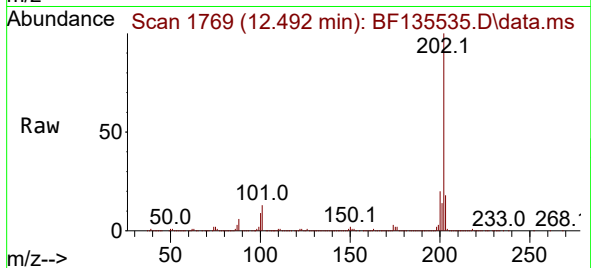
Tgt Ion:202 Resp: 967846

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.3

203 17.7 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.927 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

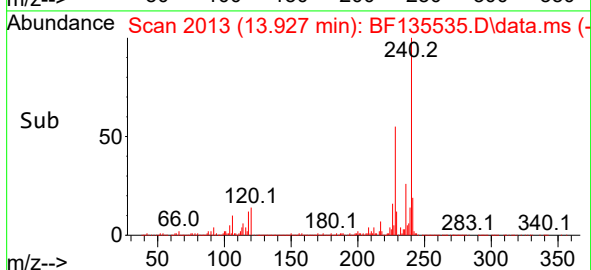
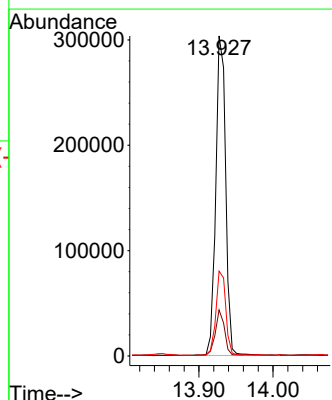
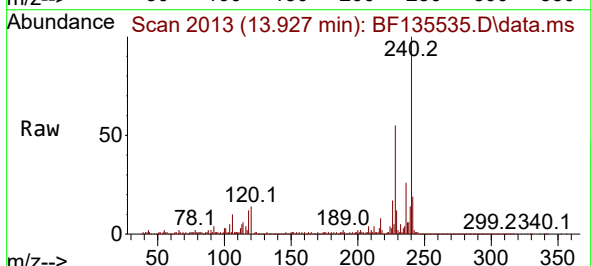
Tgt Ion:240 Resp: 280231

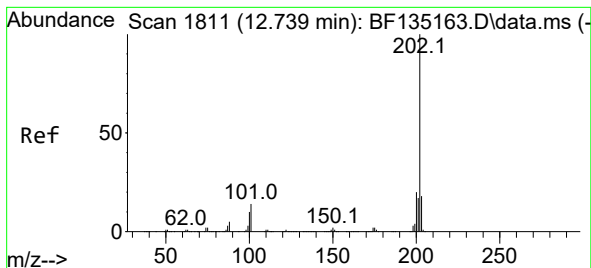
Ion Ratio Lower Upper

240 100

120 14.4 9.4 14.2#

236 26.5 19.8 29.8





#78

Pyrene

Concen: 31.501 ng

RT: 12.721 min Scan# 1808

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

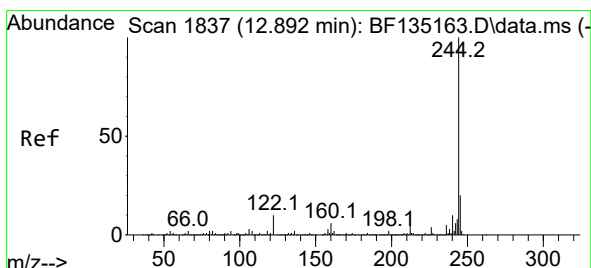
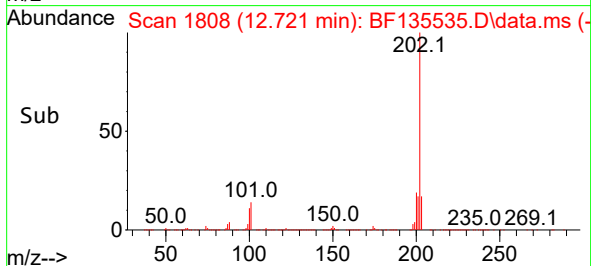
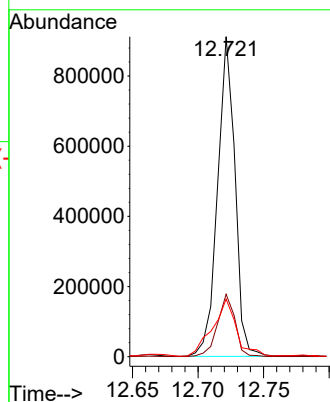
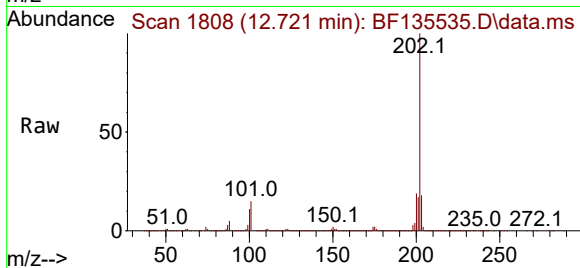
Tgt Ion:202 Resp: 840447

Ion Ratio Lower Upper

202 100

200 19.5 16.2 24.2

203 18.0 14.2 21.4



#79

Terphenyl-d14

Concen: 42.491 ng

RT: 12.863 min Scan# 1832

Delta R.T. -0.012 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

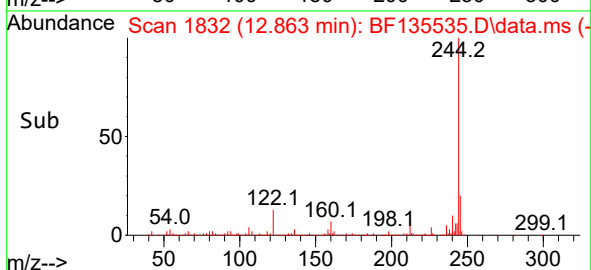
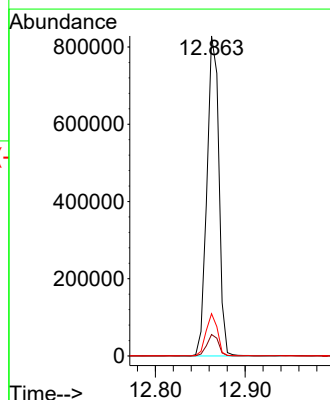
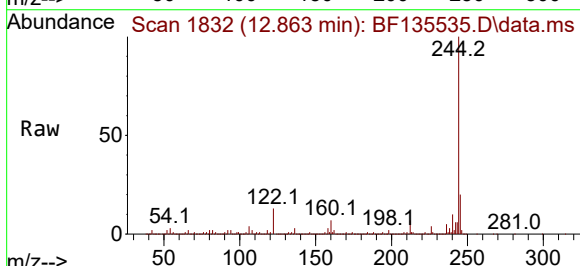
Tgt Ion:244 Resp: 768126

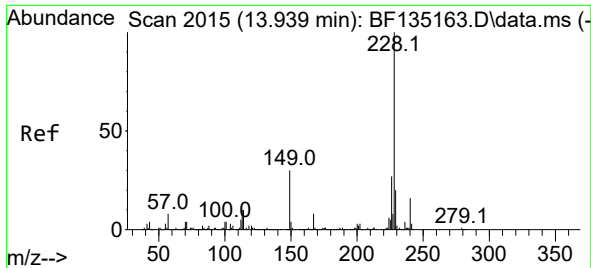
Ion Ratio Lower Upper

244 100

212 6.7 5.1 7.7

122 13.2 7.9 11.9#

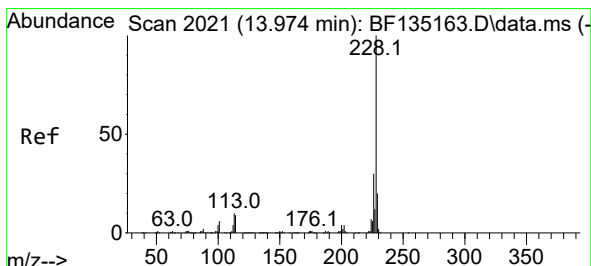
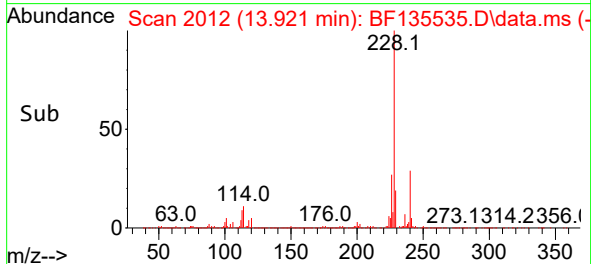
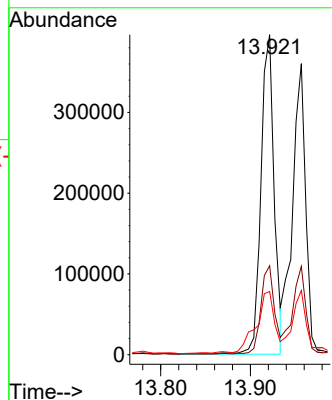
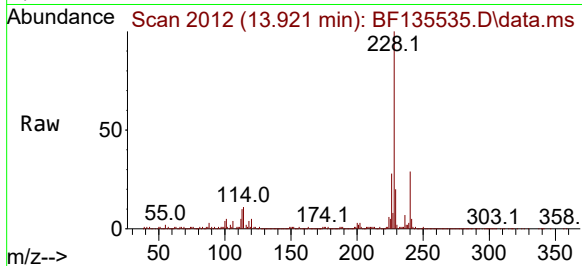




#81
Benzo(a)anthracene
Concen: 22.323 ng
RT: 13.921 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

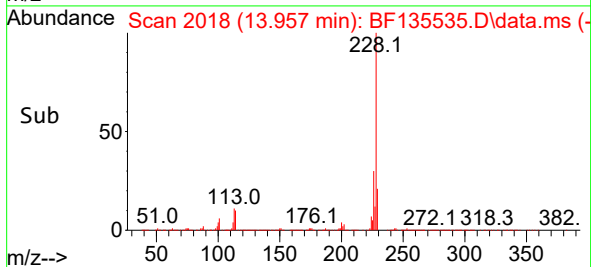
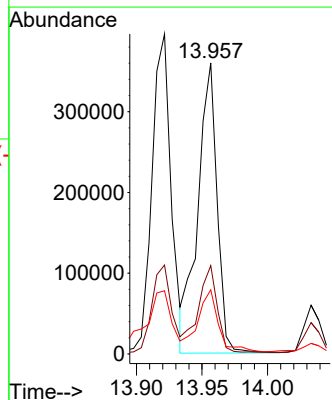
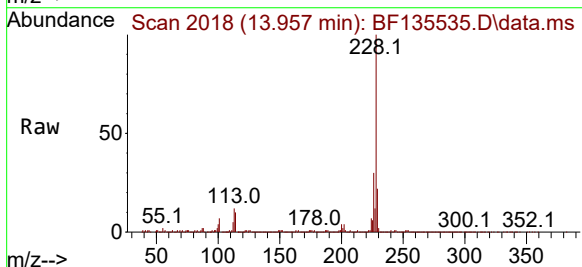
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

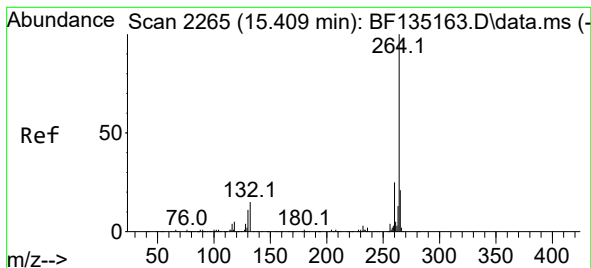
Tgt Ion:228 Resp: 403937
Ion Ratio Lower Upper
228 100
226 27.8 21.7 32.5
229 19.8 15.8 23.8



#83
Chrysene
Concen: 20.557 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:228 Resp: 369833
Ion Ratio Lower Upper
228 100
226 30.3 24.3 36.5
229 22.1 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

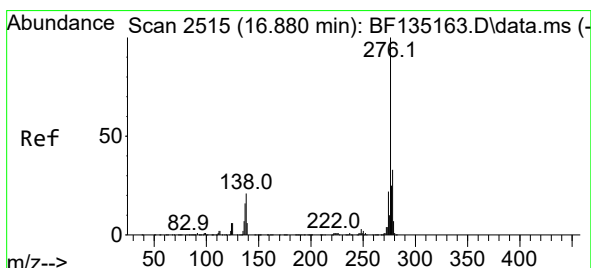
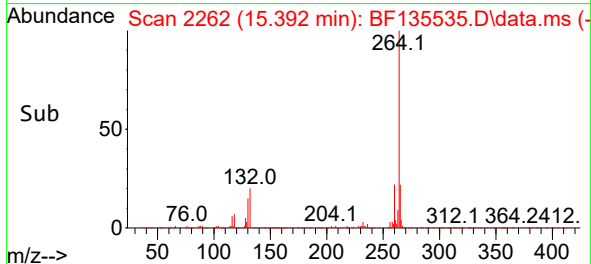
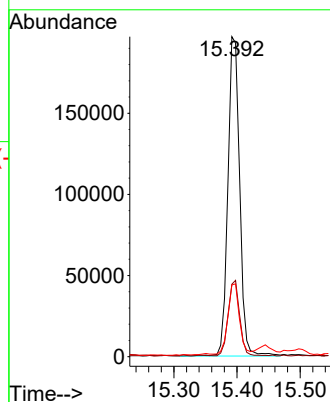
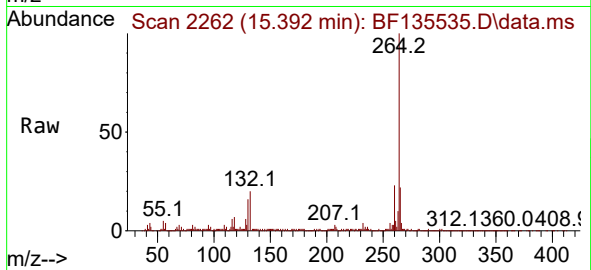
Tgt Ion:264 Resp: 254698

Ion Ratio Lower Upper

264 100

260 22.6 19.8 29.6

265 22.4 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.074 ng

RT: 16.874 min Scan# 2514

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

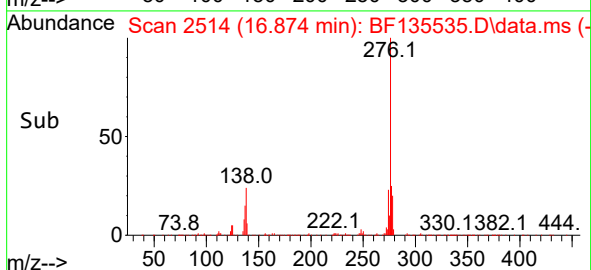
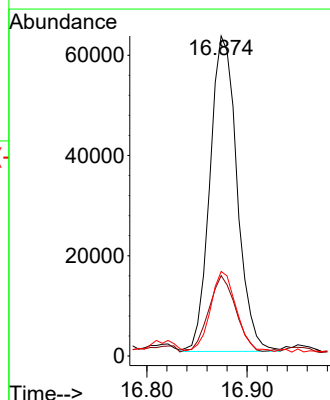
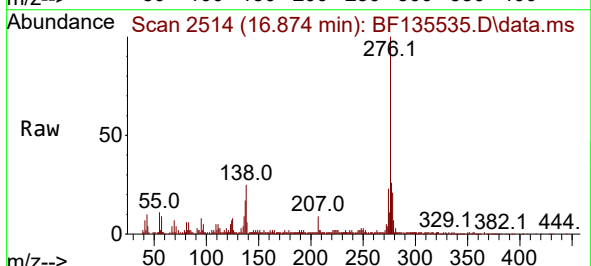
Tgt Ion:276 Resp: 118137

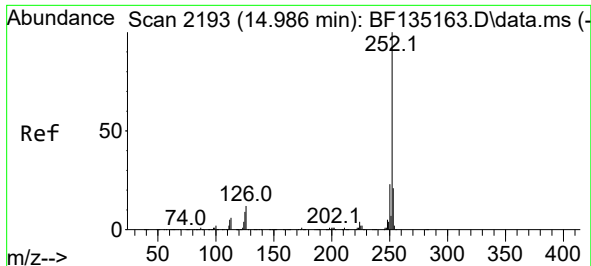
Ion Ratio Lower Upper

276 100

138 24.2 19.2 28.8

277 24.3 19.7 29.5

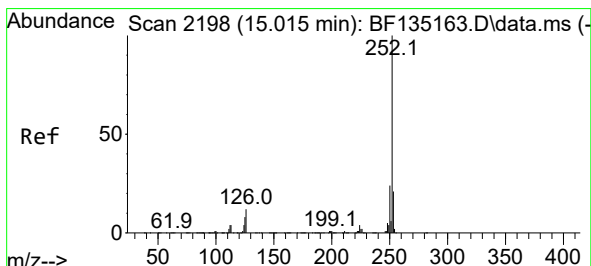
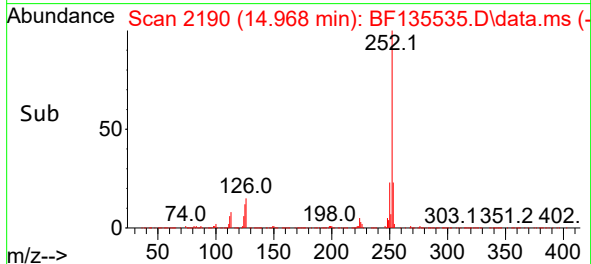
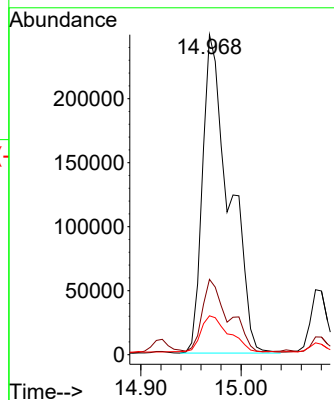
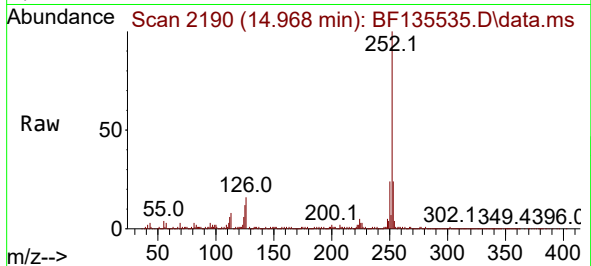




#88
Benzo(b)fluoranthene
Concen: 33.637 ng
RT: 14.968 min Scan# 2190
Delta R.T. 0.000 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

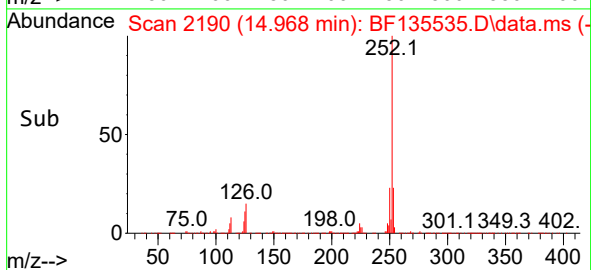
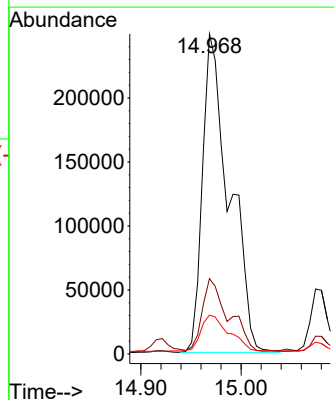
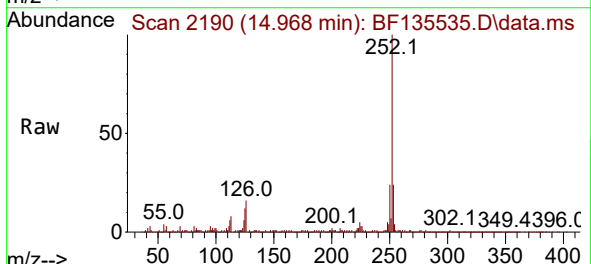
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

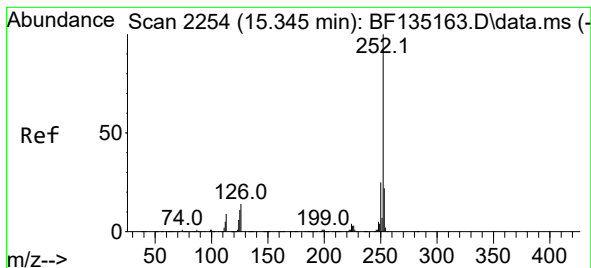
Tgt Ion:252 Resp: 463783
Ion Ratio Lower Upper
252 100
253 23.6 17.2 25.8
125 12.2 7.1 10.7#



#89
Benzo(k)fluoranthene
Concen: 34.052 ng
RT: 14.968 min Scan# 2190
Delta R.T. -0.029 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:252 Resp: 463783
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.0
125 12.2 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 18.244 ng

RT: 15.333 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

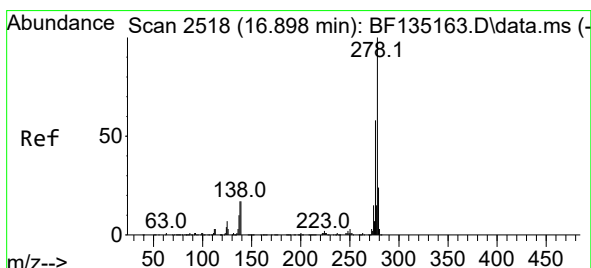
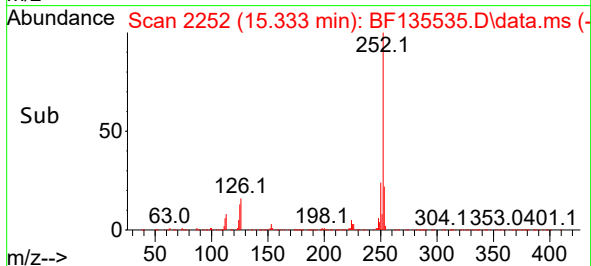
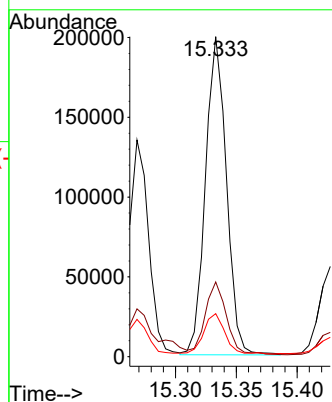
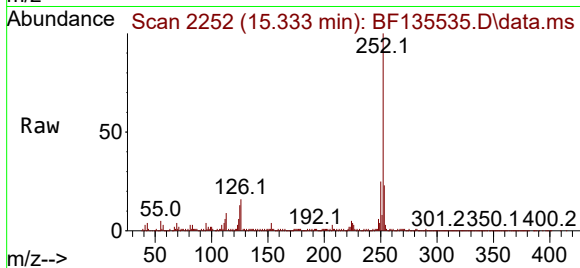
Tgt Ion:252 Resp: 239881

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 13.5 9.2 13.8



#91

Dibenzo(a,h)anthracene

Concen: 2.151 ng

RT: 16.880 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

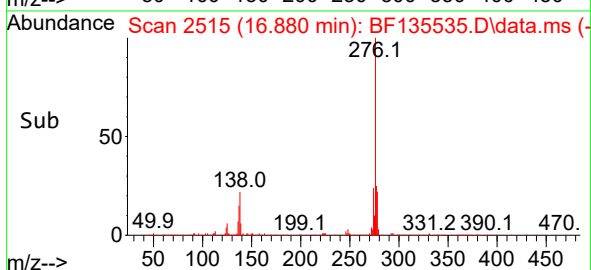
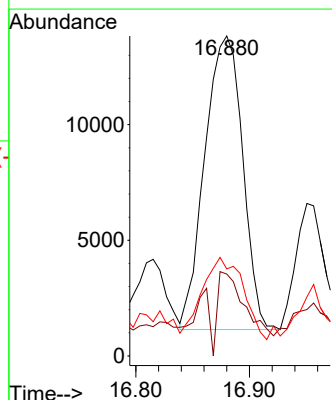
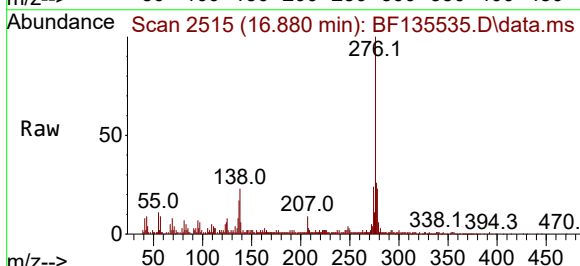
Tgt Ion:278 Resp: 29385

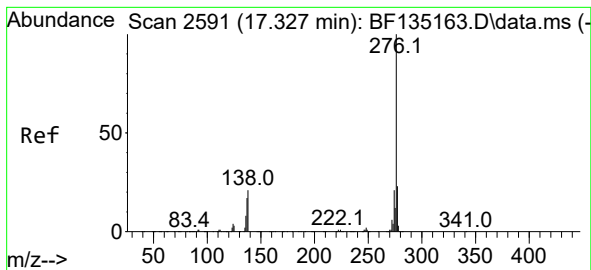
Ion Ratio Lower Upper

278 100

139 25.6 13.4 20.0#

279 27.2 19.0 28.6





#92

Benzo(g,h,i)perylene

Concen: 7.713 ng

RT: 17.327 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135535.D

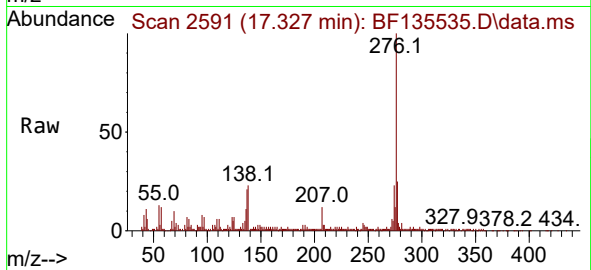
Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023



Tgt Ion:276 Resp: 110061

Ion Ratio Lower Upper

276 100

277 24.9 18.8 28.2

138 23.2 16.9 25.3

