

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120423\
 Data File : BF136384.D
 Acq On : 04 Dec 2023 16:23
 Operator : CG\JU
 Sample : 05577-01DL 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 04 17:02:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:30:53 2023
 Response via : Initial Calibration

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

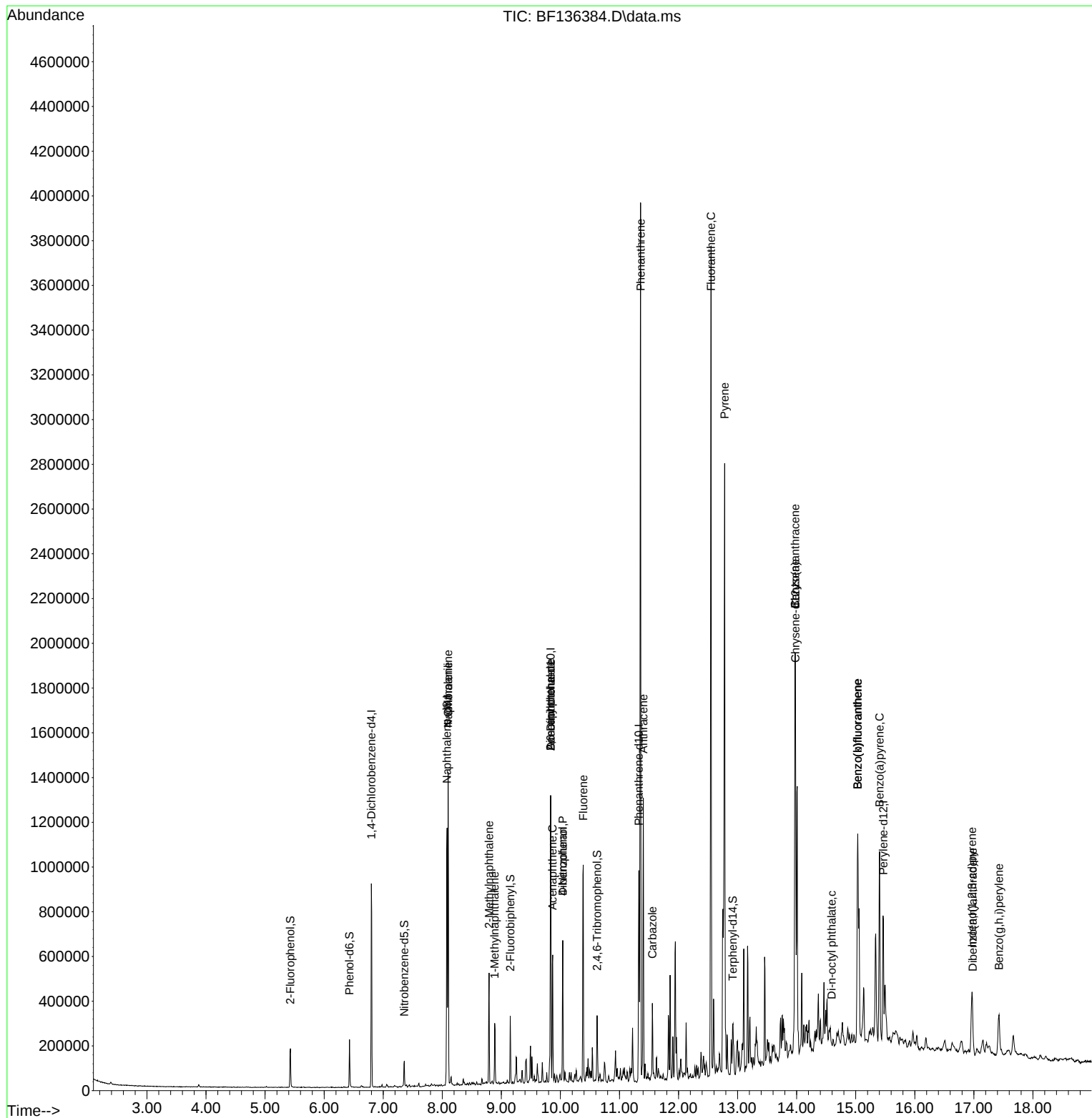
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	132754	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	515929	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	229984	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	363878	20.000	ng	0.00
76) Chrysene-d12	13.980	240	287211	20.000	ng	0.00
86) Perylene-d12	15.468	264	268568	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	50061	5.249	ng	-0.01
7) Phenol-d6	6.428	99	62385	5.231	ng	-0.02
23) Nitrobenzene-d5	7.357	82	35325	3.618	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	13347	4.747	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	79905	4.438	ng	-0.01
79) Terphenyl-d14	12.916	244	72564	2.914	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	549651	18.954	ng	# 96
33) 4-Chloroaniline	8.098	127	73764	7.483	ng	# 32
37) 2-Methylnaphthalene	8.792	142	122686	6.744	ng	91
38) 1-Methylnaphthalene	8.886	142	70195	3.956	ng	88
50) Dimethylphthalate	9.833	163	45965	2.644	ng	# 1
51) 2,6-Dinitrotoluene	9.833	165	32433	9.133	ng	# 25
52) Acenaphthene	9.869	154	118551	8.346	ng	89
55) Dibenzofuran	10.039	168	213575	10.105	ng	# 97
56) 4-Nitrophenol	10.039	139	79833	29.831	ng	# 4
58) Fluorene	10.386	166	265277	16.001	ng	95
71) Phenanthrene	11.357	178	1462559	71.513	ng	99
72) Anthracene	11.404	178	441343	21.519	ng	98
73) Carbazole	11.557	167	120666	6.918	ng	99
75) Fluoranthene	12.551	202	1437572	69.241	ng	96
78) Pyrene	12.780	202	1147351	36.476	ng	97
81) Benzo(a)anthracene	13.974	228	618289	28.983	ng	98
83) Chrysene	13.974	228	618289	30.017	ng	95
85) Di-n-octyl phthalate	14.592	149	955	5.207	ng	# 1
87) Indeno(1,2,3-cd)pyrene	16.968	276	193499	11.780	ng	98
88) Benzo(b)fluoranthene	15.033	252	778054	41.293	ng	96
89) Benzo(k)fluoranthene	15.033	252	778054	43.477	ng	95
90) Benzo(a)pyrene	15.404	252	412268	26.765	ng	95
91) Dibenzo(a,h)anthracene	16.980	278	45530	5.379	ng	# 82
92) Benzo(g,h,i)perylene	17.427	276	163953	11.640	ng	99

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

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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

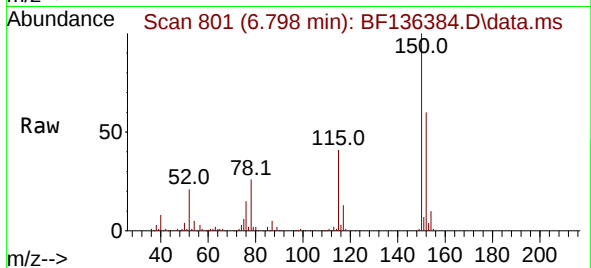
Quant Time: Dec 04 17:02:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 04 13:30:53 2023
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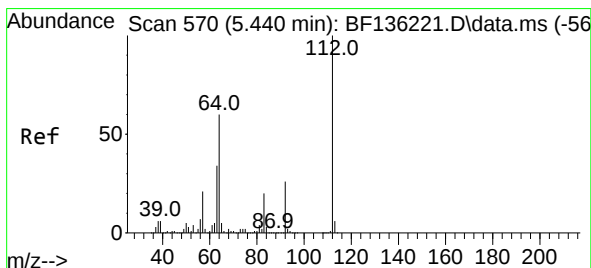
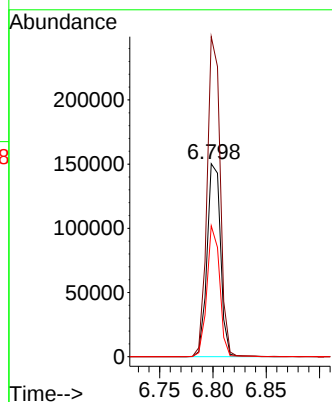
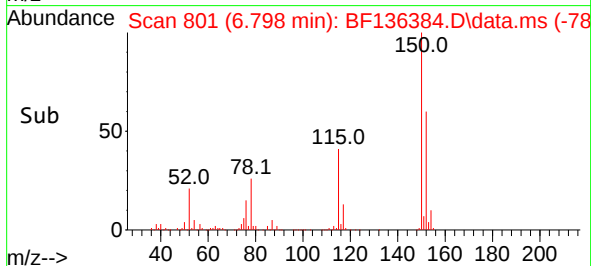


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :

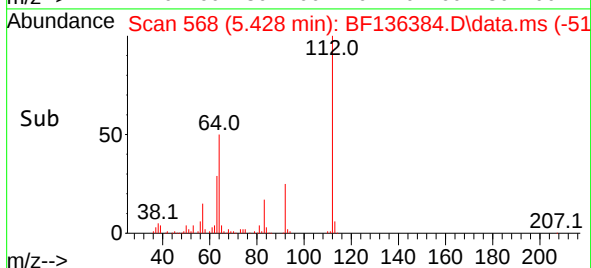
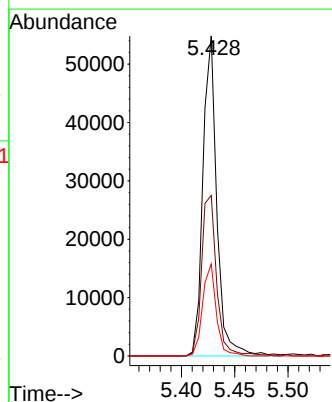
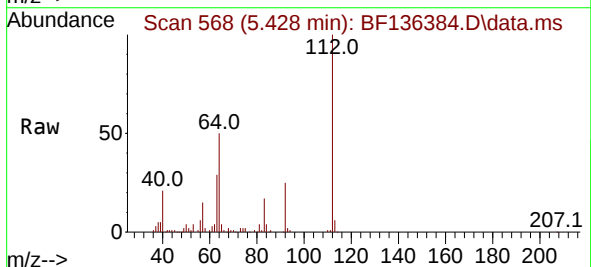


Tgt Ion:152 Resp: 132754
Ion Ratio Lower Upper
152 100
150 165.8 137.8 206.8
115 67.9 52.7 79.1



#5
2-Fluorophenol
Concen: 5.249 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:112 Resp: 50061
Ion Ratio Lower Upper
112 100
64 50.1 48.2 72.4
63 28.8 27.0 40.6

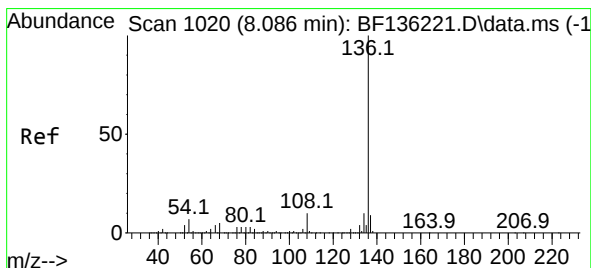
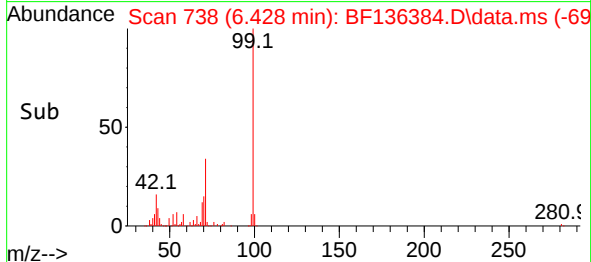
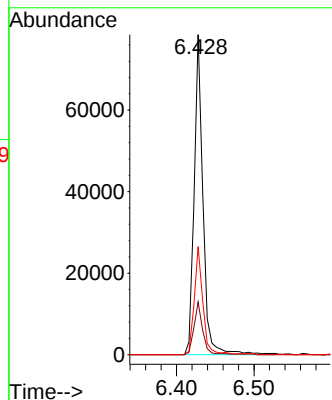
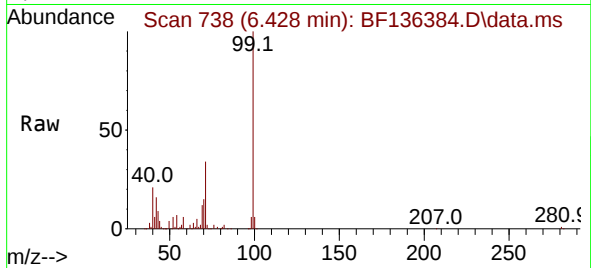




#7
Phenol-d6
Concen: 5.231 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

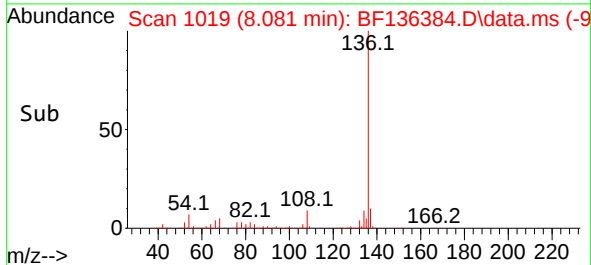
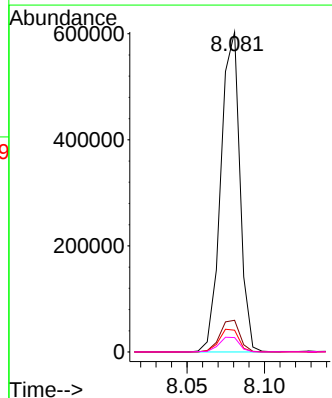
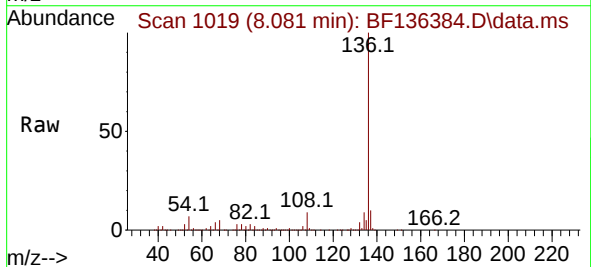
Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 99 Resp: 62385
Ion Ratio Lower Upper
99 100
42 16.5 15.0 22.6
71 33.7 28.9 43.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion: 136 Resp: 515929
Ion Ratio Lower Upper
136 100
137 9.9 7.4 11.2
54 6.8 5.5 8.3
68 4.5 3.7 5.5





#23

Nitrobenzene-d5

Concen: 3.618 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.012 min

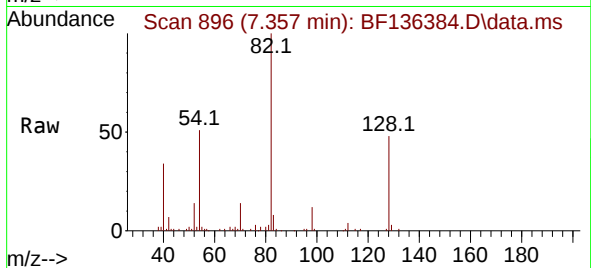
Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :



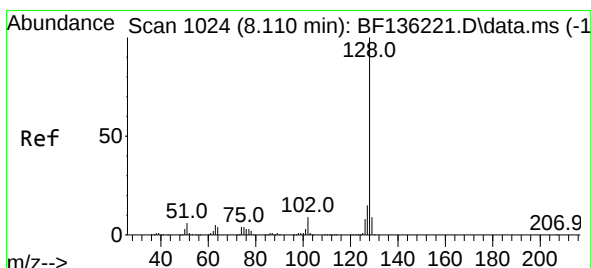
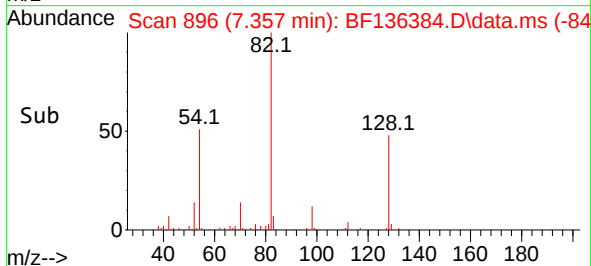
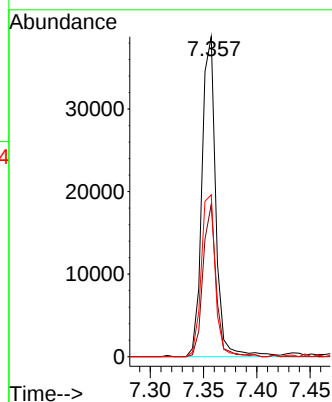
Tgt Ion: 82 Resp: 35325

Ion Ratio Lower Upper

82 100

128 47.6 33.4 50.2

54 50.6 41.7 62.5



#31

Naphthalene

Concen: 18.954 ng

RT: 8.098 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

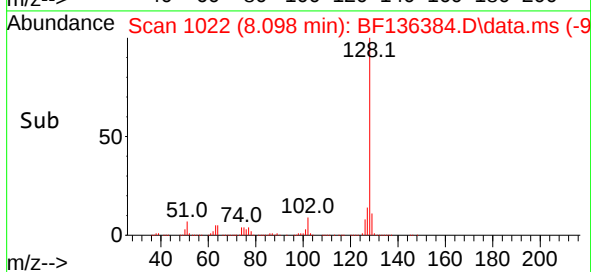
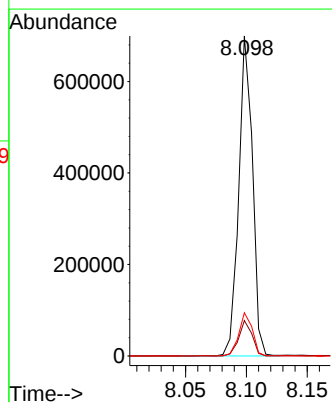
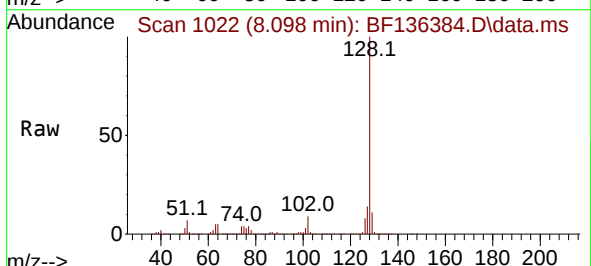
Tgt Ion: 128 Resp: 549651

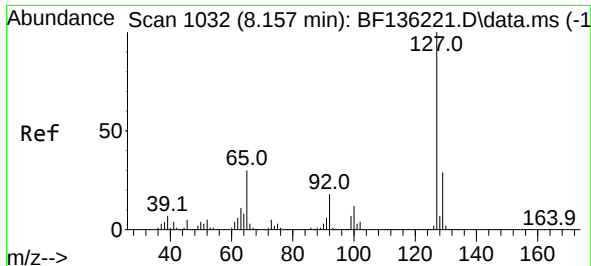
Ion Ratio Lower Upper

128 100

129 11.1 7.3 10.9#

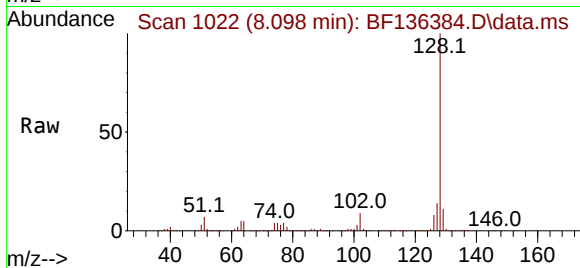
127 13.5 11.8 17.6



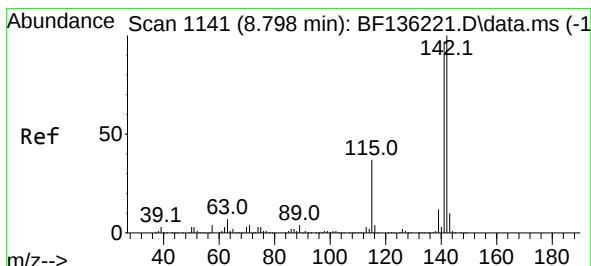
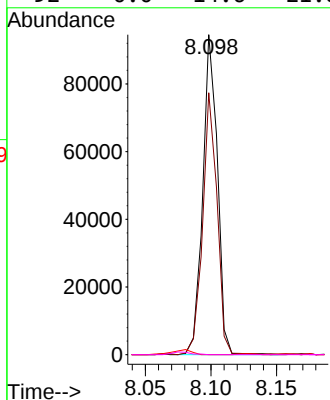
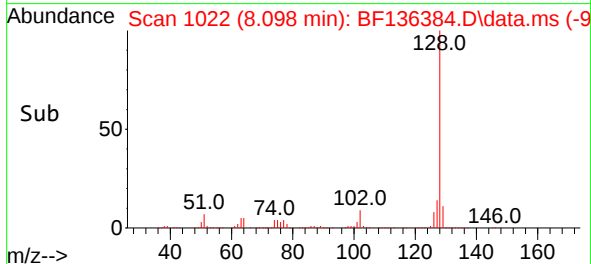


#33
4-Chloroaniline
Concen: 7.483 ng
RT: 8.098 min Scan# 110
Delta R.T. -0.059 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :

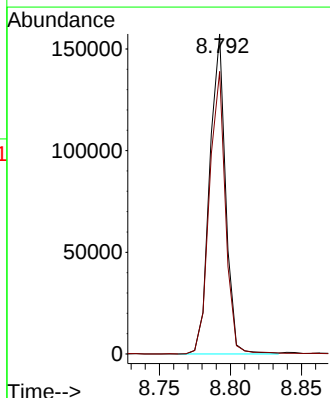
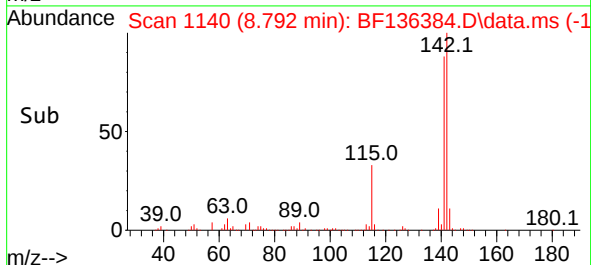
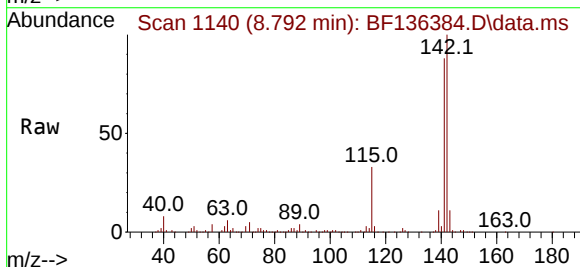


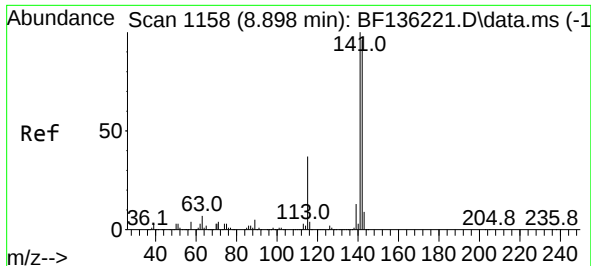
Tgt Ion:127 Resp: 73764
Ion Ratio Lower Upper
127 100
129 81.9 23.4 35.2#
65 0.0 23.8 35.6#
92 0.0 14.6 21.8#



#37
2-Methylnaphthalene
Concen: 6.744 ng
RT: 8.792 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:142 Resp: 122686
Ion Ratio Lower Upper
142 100
141 88.2 77.8 116.8





#38

1-Methylnaphthalene

Concen: 3.956 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

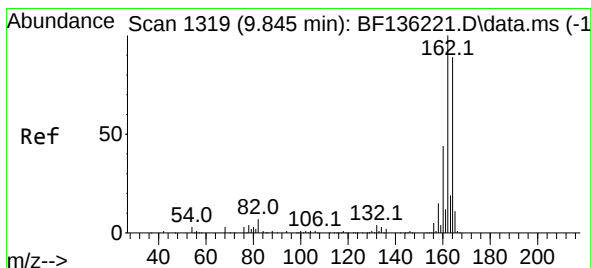
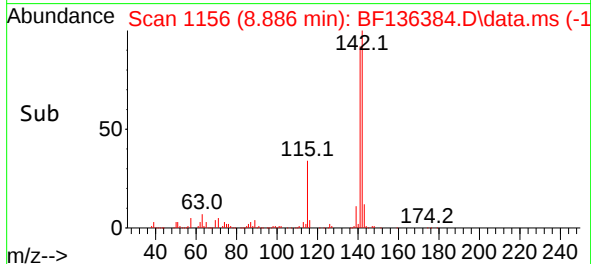
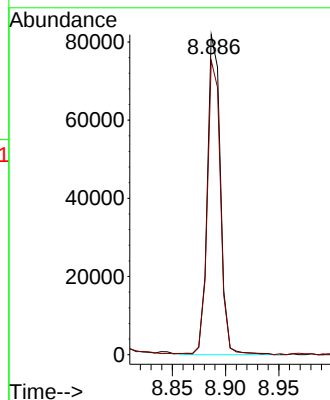
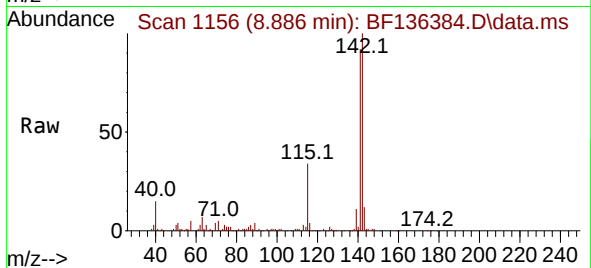
ClientSampleId :

Tgt Ion:142 Resp: 70195

Ion Ratio Lower Upper

142 100

141 91.9 83.8 125.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

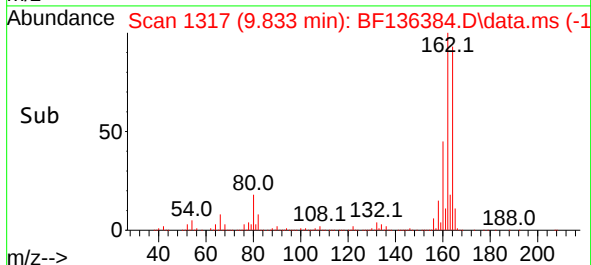
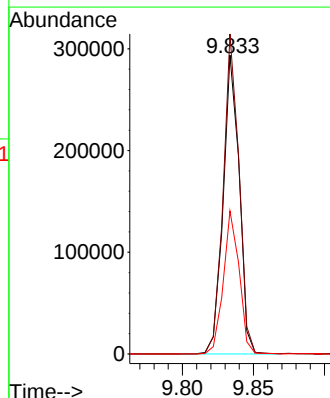
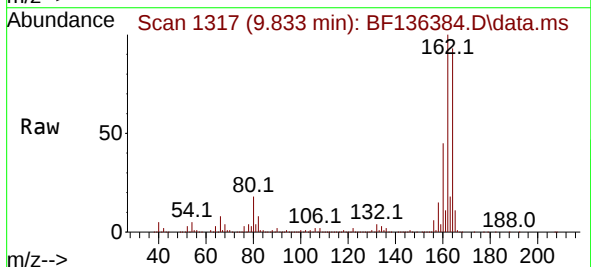
Tgt Ion:164 Resp: 229984

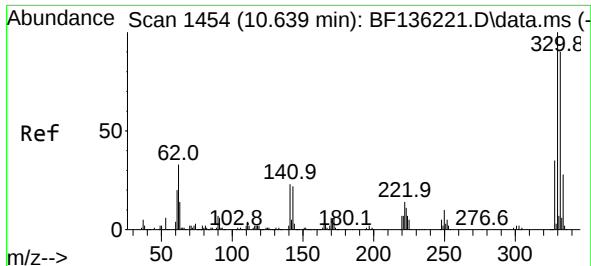
Ion Ratio Lower Upper

164 100

162 107.1 89.5 134.3

160 47.8 39.6 59.4





#42

2,4,6-Tribromophenol

Concen: 4.747 ng

RT: 10.622 min Scan# 1454

Delta R.T. -0.012 min

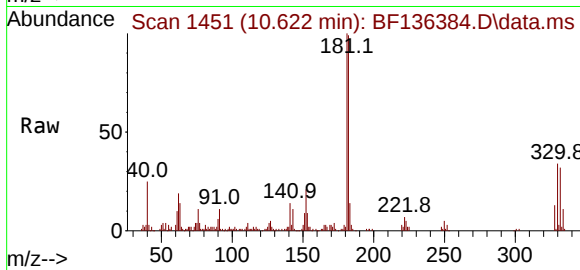
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Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :



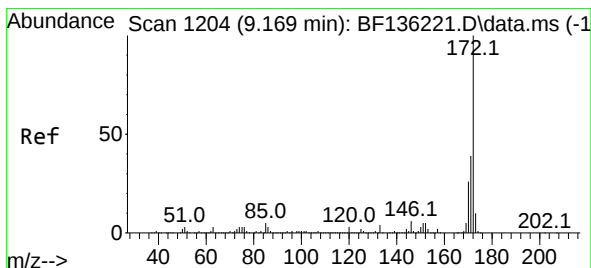
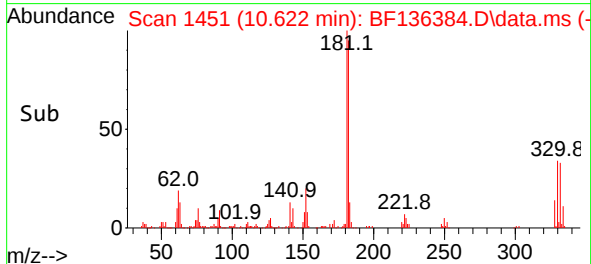
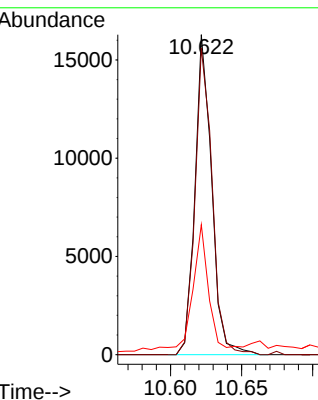
Tgt Ion:330 Resp: 13347

Ion Ratio Lower Upper

330 100

332 98.4 73.0 109.6

141 38.9 24.2 36.2#



#45

2-Fluorobiphenyl

Concen: 4.438 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

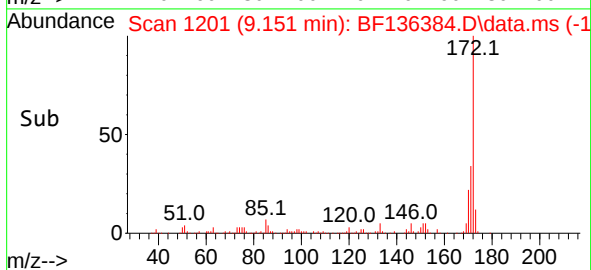
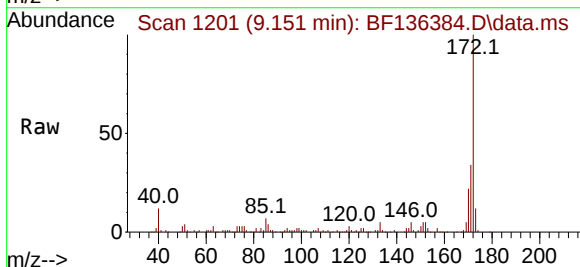
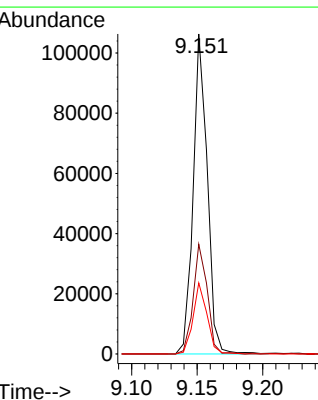
Tgt Ion:172 Resp: 79905

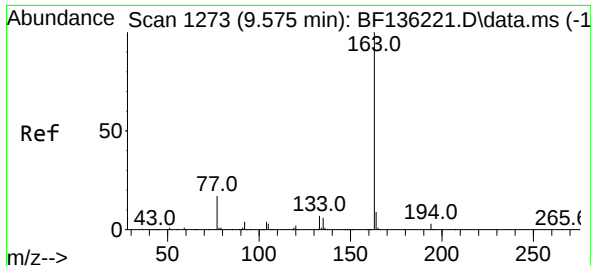
Ion Ratio Lower Upper

172 100

171 34.3 31.5 47.3

170 22.2 20.8 31.2

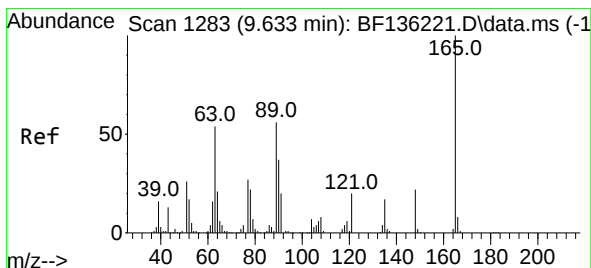
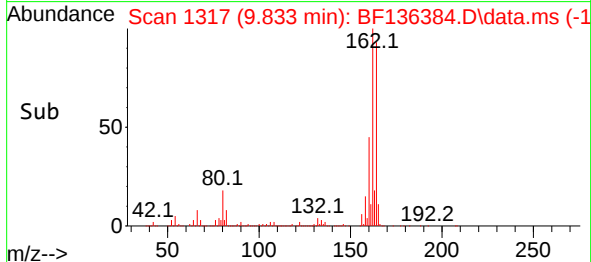
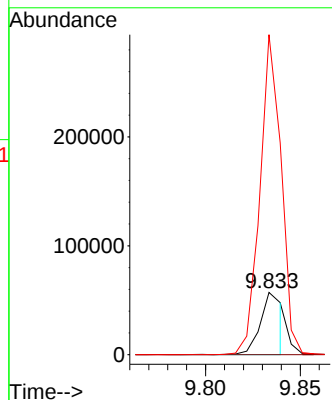
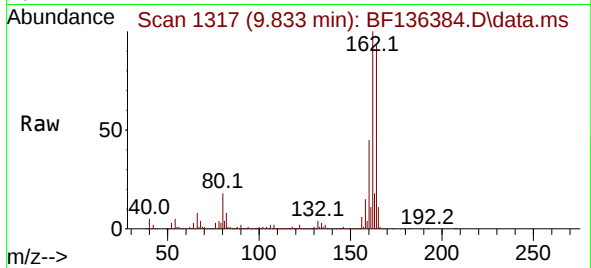




#50
Dimethylphthalate
Concen: 2.644 ng
RT: 9.833 min Scan# 1317
Delta R.T. 0.265 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

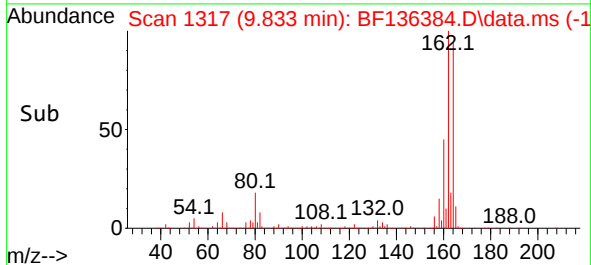
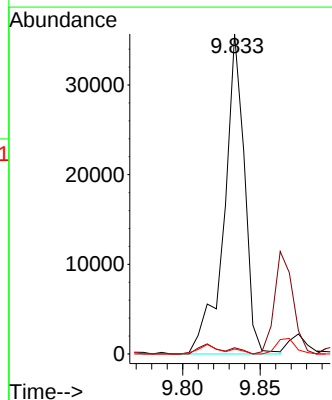
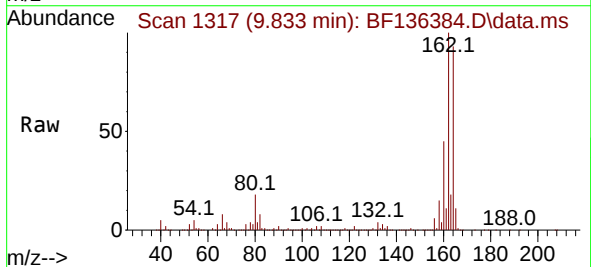
Instrument :
BNA_F
ClientSampleId :

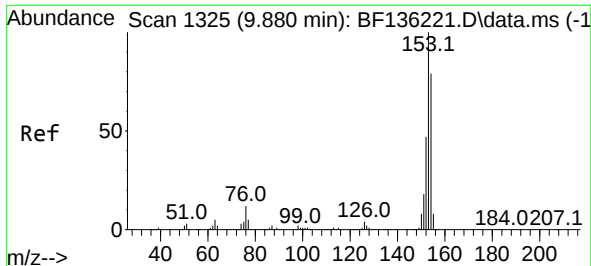
Tgt Ion:163 Resp: 45965
Ion Ratio Lower Upper
163 100
194 0.0 2.5 3.7#
164 514.7 7.0 10.6#



#51
2,6-Dinitrotoluene
Concen: 9.133 ng
RT: 9.833 min Scan# 1317
Delta R.T. 0.206 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:165 Resp: 32433
Ion Ratio Lower Upper
165 100
63 2.0 46.2 69.2#
89 1.5 44.9 67.3#

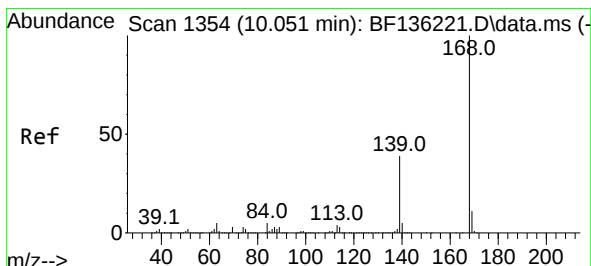
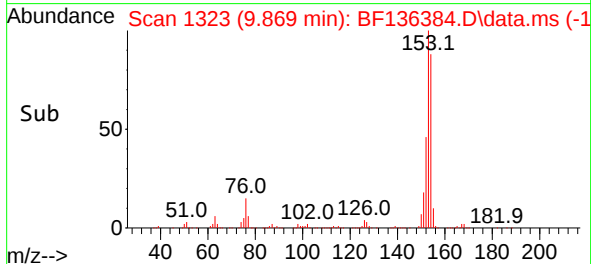
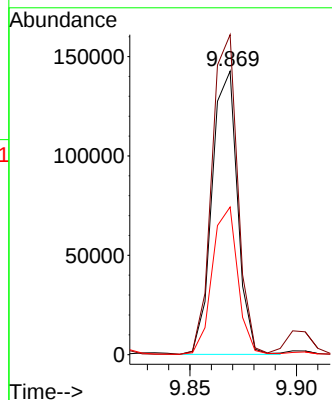
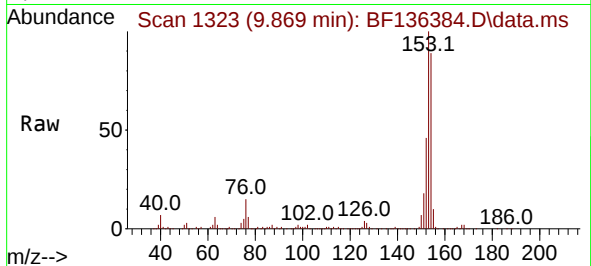




#52
Acenaphthene
Concen: 8.346 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

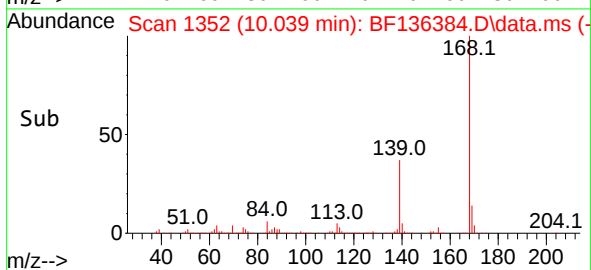
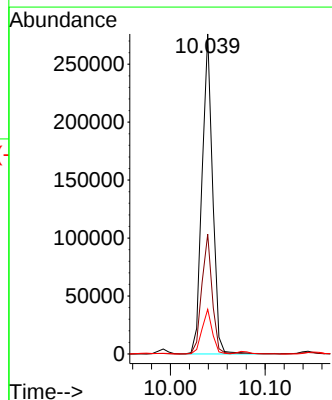
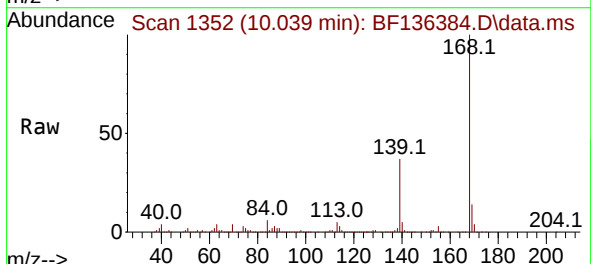
Instrument :
BNA_F
ClientSampleId :

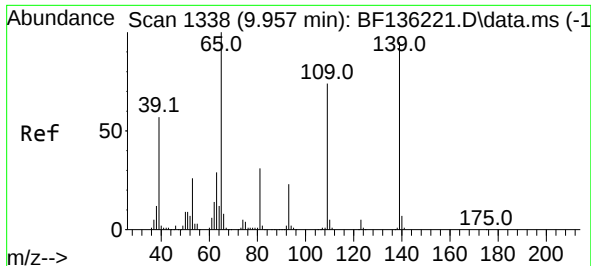
Tgt Ion:154 Resp: 118551
Ion Ratio Lower Upper
154 100
153 112.9 100.8 151.2
152 52.1 47.0 70.6



#55
Dibenzofuran
Concen: 10.105 ng
RT: 10.039 min Scan# 1352
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:168 Resp: 213575
Ion Ratio Lower Upper
168 100
139 37.5 30.9 46.3
169 14.0 9.1 13.7#

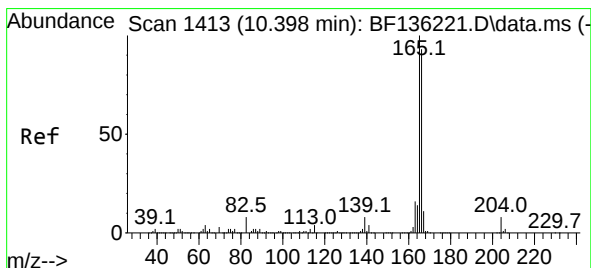
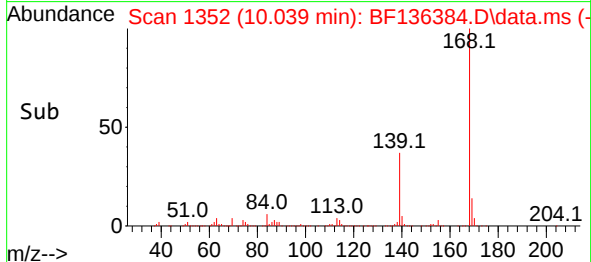
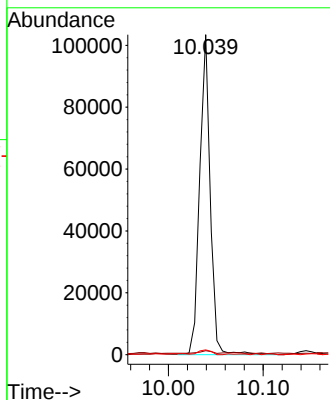
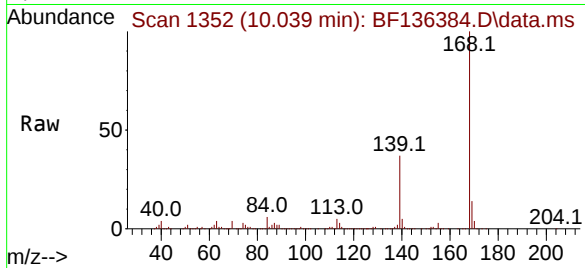




#56
4-Nitrophenol
Concen: 29.831 ng
RT: 10.039 min Scan# 11
Delta R.T. 0.083 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

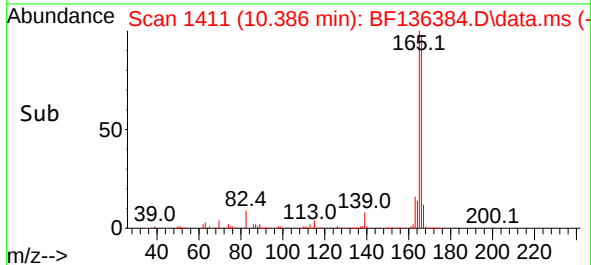
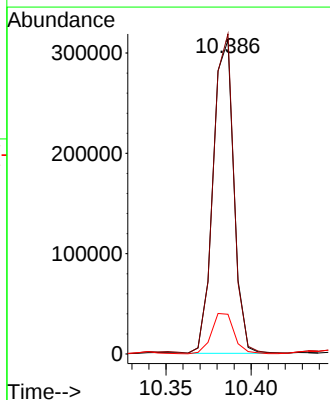
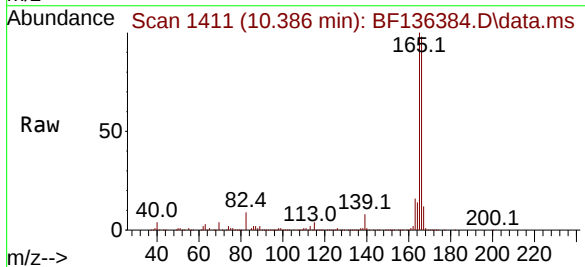
Instrument :
BNA_F
ClientSampleId :

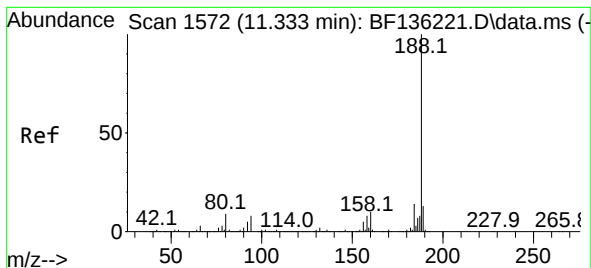
Tgt Ion:139 Resp: 79833
Ion Ratio Lower Upper
139 100
109 1.3 57.8 97.8#
65 1.5 86.0 126.0#



#58
Fluorene
Concen: 16.001 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:166 Resp: 265277
Ion Ratio Lower Upper
166 100
165 102.0 86.2 129.4
167 12.7 9.1 13.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.328 min Scan# 1571

Delta R.T. 0.000 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

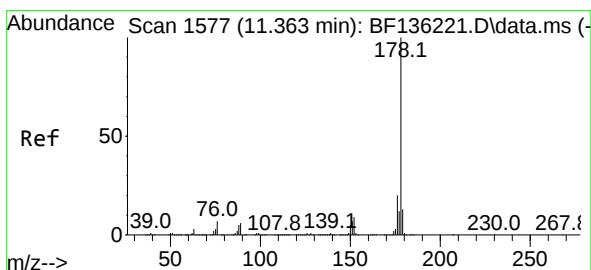
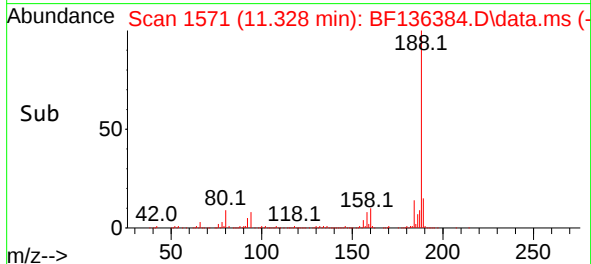
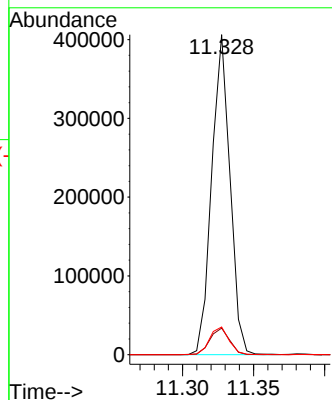
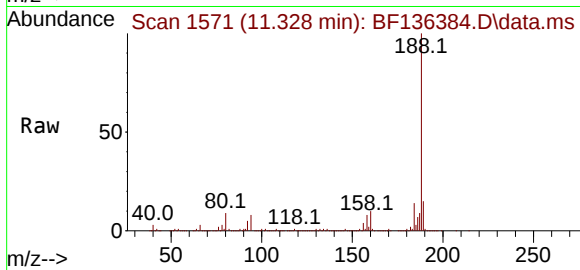
Tgt Ion:188 Resp: 363878

Ion Ratio Lower Upper

188 100

94 8.3 6.7 10.1

80 8.7 7.2 10.8



#71

Phenanthrene

Concen: 71.513 ng

RT: 11.357 min Scan# 1576

Delta R.T. 0.000 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

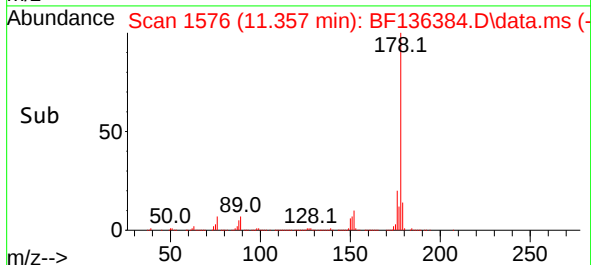
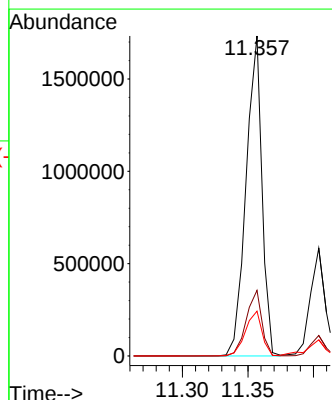
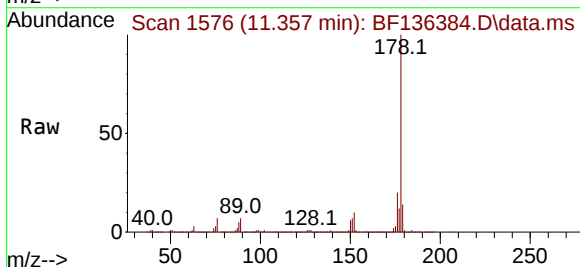
Tgt Ion:178 Resp: 1462559

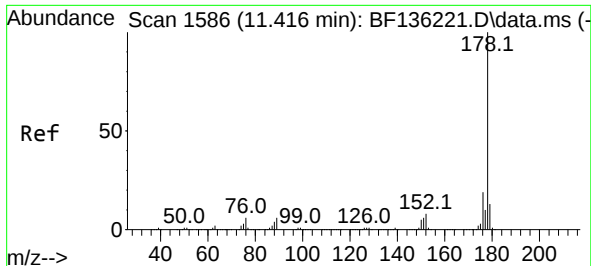
Ion Ratio Lower Upper

178 100

176 20.5 16.2 24.2

179 14.0 10.3 15.5

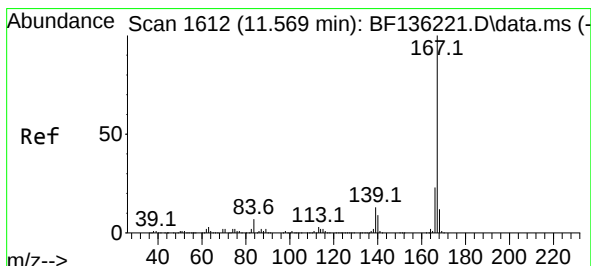
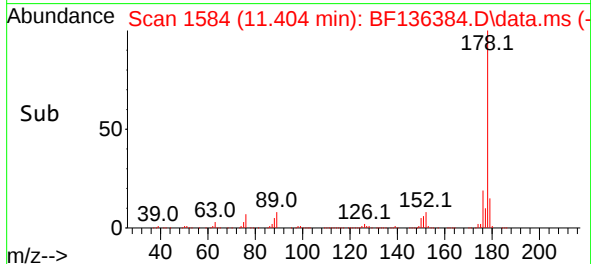
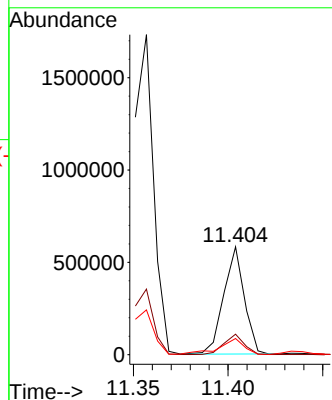
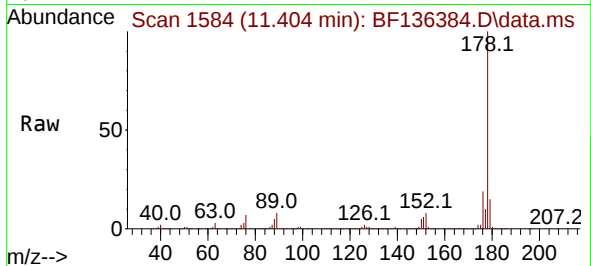




#72
Anthracene
Concen: 21.519 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

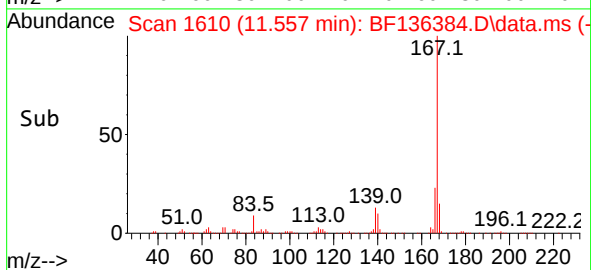
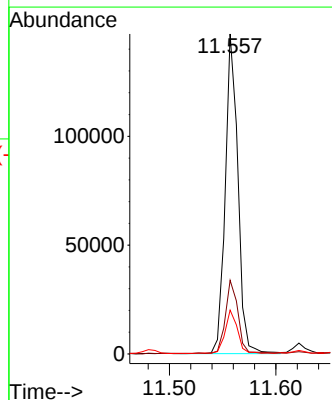
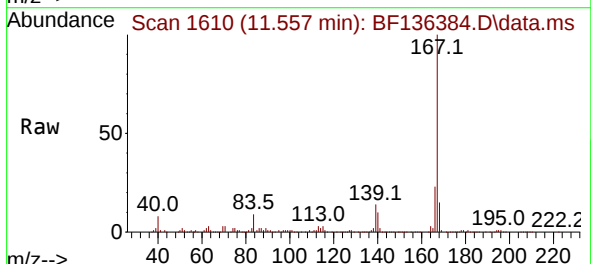
Instrument :
BNA_F
ClientSampleId :

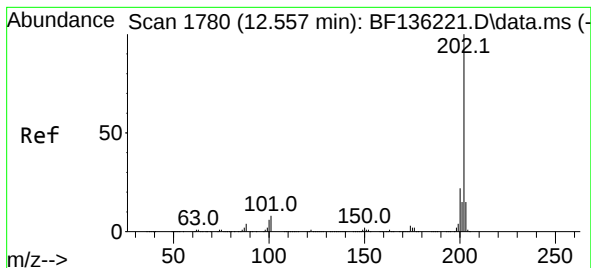
Tgt Ion:178 Resp: 441343
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.0 10.5 15.7



#73
Carbazole
Concen: 6.918 ng
RT: 11.557 min Scan# 1610
Delta R.T. -0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

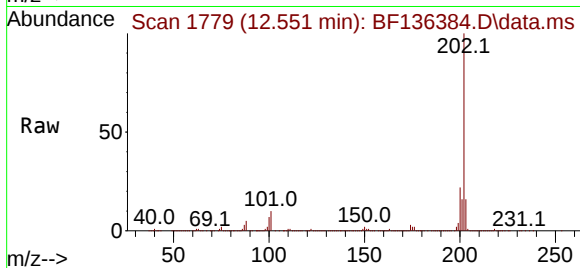
Tgt Ion:167 Resp: 120666
Ion Ratio Lower Upper
167 100
166 23.0 18.4 27.6
139 13.7 10.5 15.7



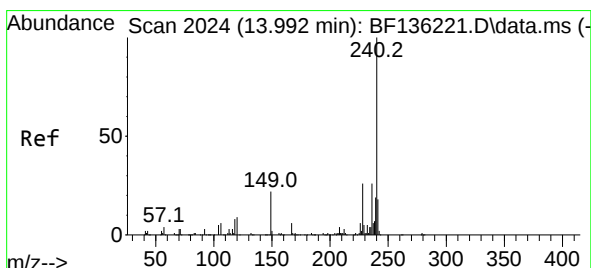
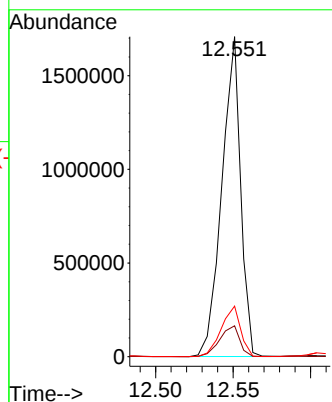
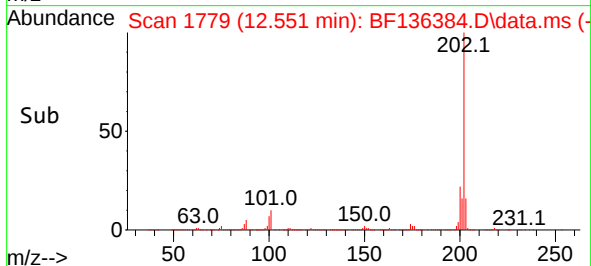


#75
Fluoranthene
Concen: 69.241 ng
RT: 12.551 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Instrument :
BNA_F
ClientSampleId :

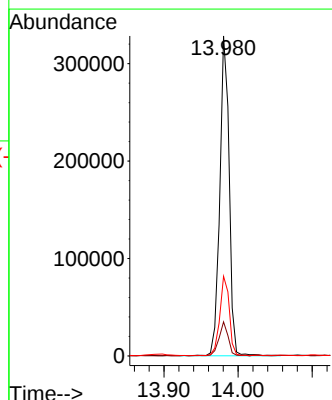
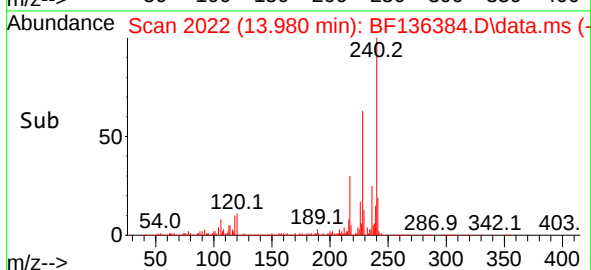
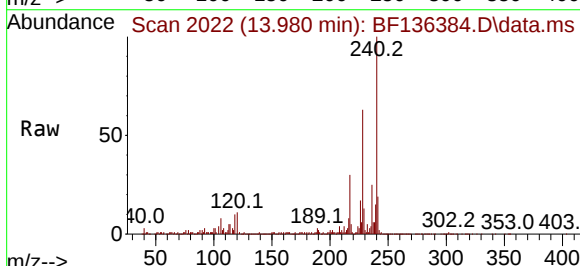


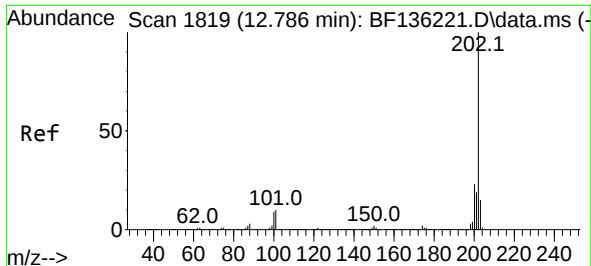
Tgt Ion:202 Resp: 1437572
Ion Ratio Lower Upper
202 100
101 9.7 0.0 27.8
203 15.8 0.0 34.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:240 Resp: 287211
Ion Ratio Lower Upper
240 100
120 10.7 7.4 11.2
236 24.9 21.1 31.7

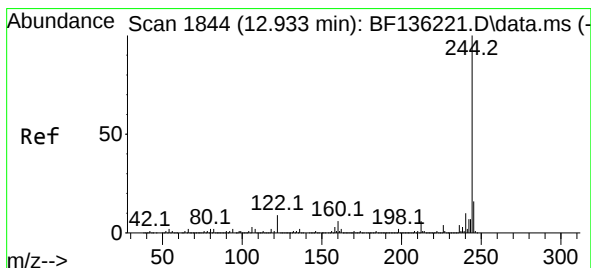
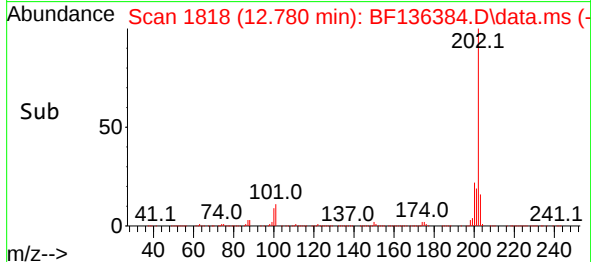
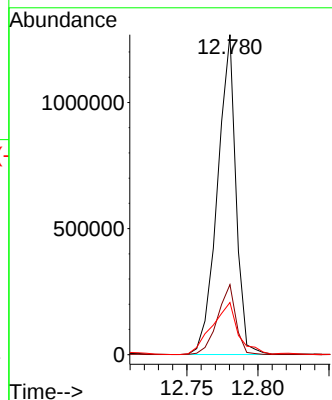
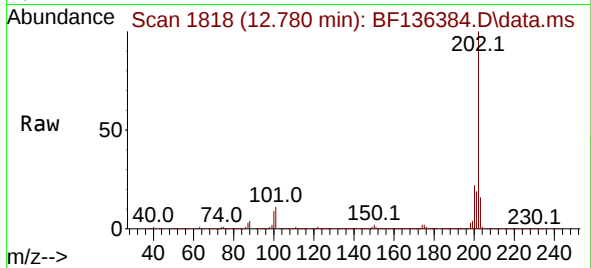




#78
Pyrene
Concen: 36.476 ng
RT: 12.780 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

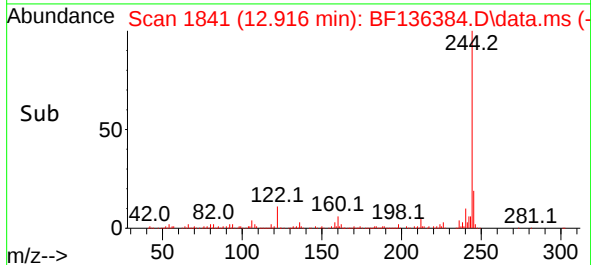
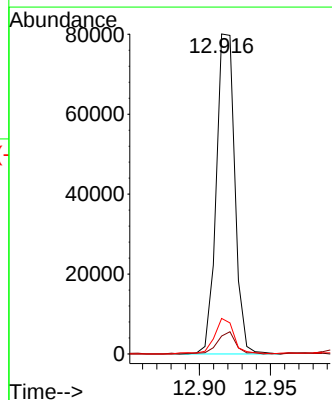
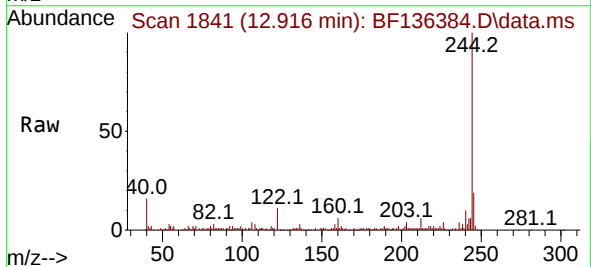
Instrument :
BNA_F
ClientSampleId :

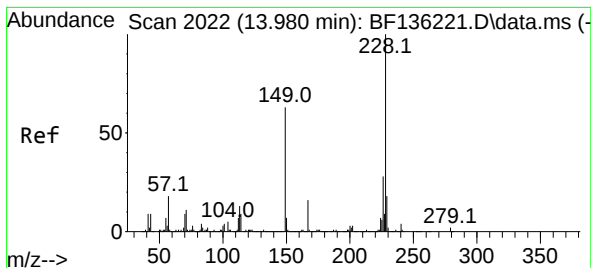
Tgt Ion:202 Resp: 1147351
Ion Ratio Lower Upper
202 100
200 21.9 18.4 27.6
203 16.3 11.8 17.6



#79
Terphenyl-d14
Concen: 2.914 ng
RT: 12.916 min Scan# 1841
Delta R.T. -0.012 min
Lab File: BF136384.D
Acq: 04 Dec 2023 16:23

Tgt Ion:244 Resp: 72564
Ion Ratio Lower Upper
244 100
212 5.6 4.6 7.0
122 11.1 7.3 10.9#





#81

Benzo(a)anthracene

Concen: 28.983 ng

RT: 13.974 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

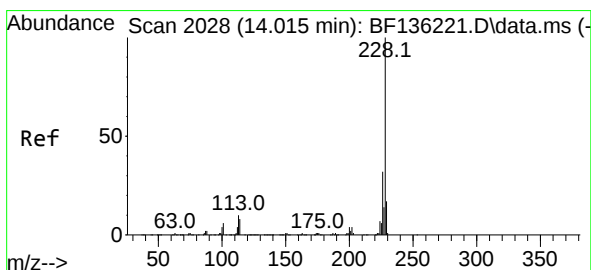
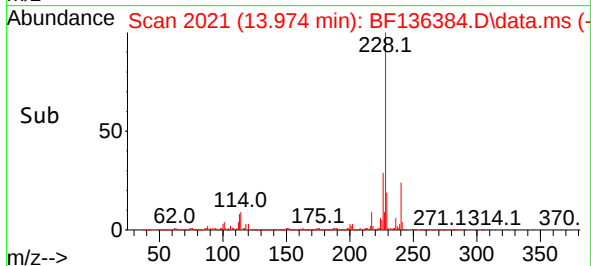
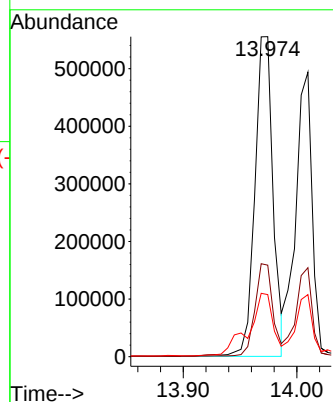
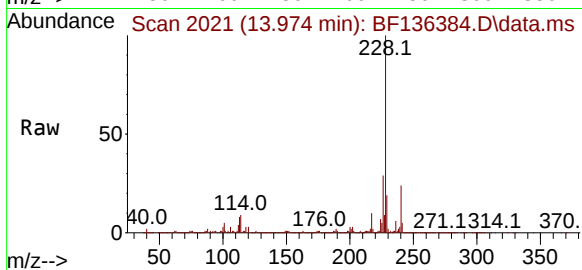
Tgt Ion:228 Resp: 618289

Ion Ratio Lower Upper

228 100

226 28.6 22.6 34.0

229 19.4 14.0 21.0



#83

Chrysene

Concen: 30.017 ng

RT: 13.974 min Scan# 2021

Delta R.T. -0.035 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

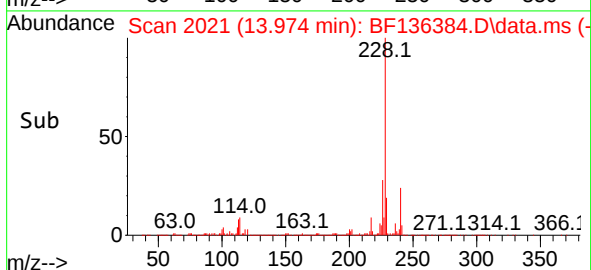
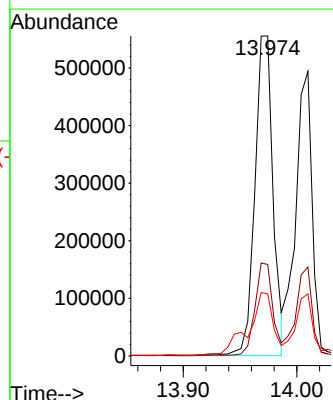
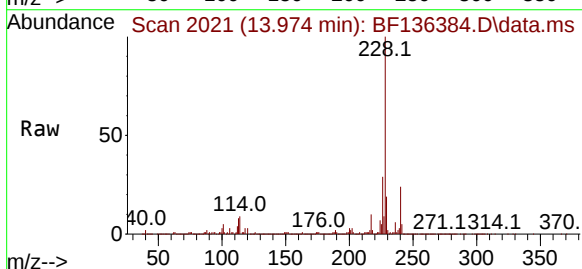
Tgt Ion:228 Resp: 618289

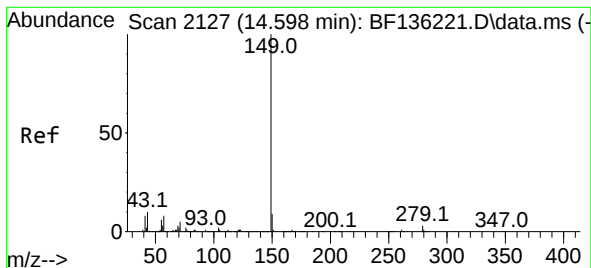
Ion Ratio Lower Upper

228 100

226 28.6 25.5 38.3

229 19.4 13.9 20.9





#85

Di-n-octyl phthalate

Concen: 5.207 ng

RT: 14.592 min Scan# 2127

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

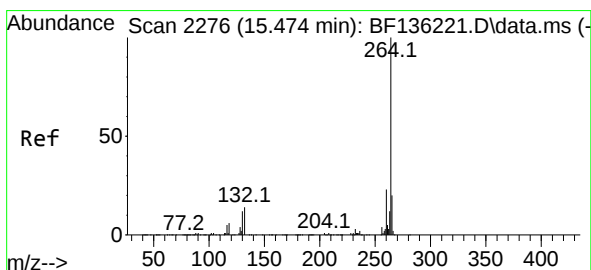
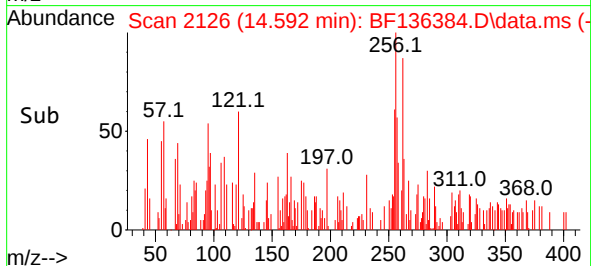
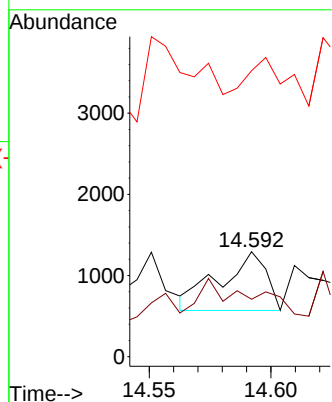
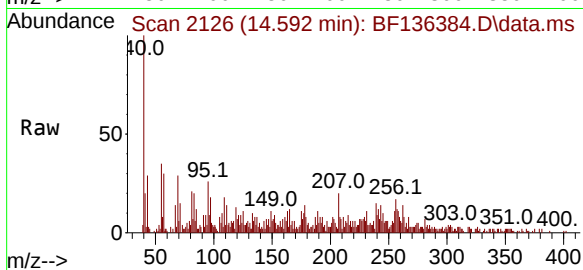
Tgt Ion:149 Resp: 955

Ion Ratio Lower Upper

149 100

167 0.0 1.0 1.6#

43 62.7 7.2 10.8#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

Delta R.T. 0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

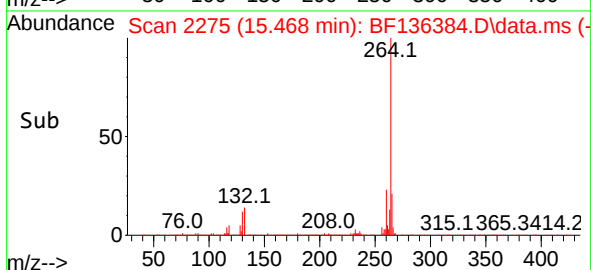
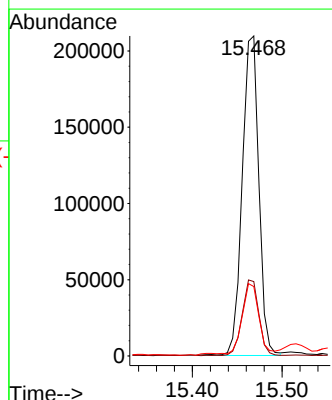
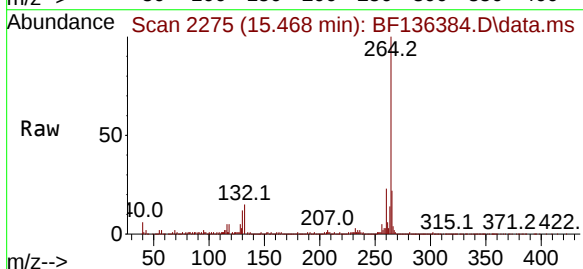
Tgt Ion:264 Resp: 268568

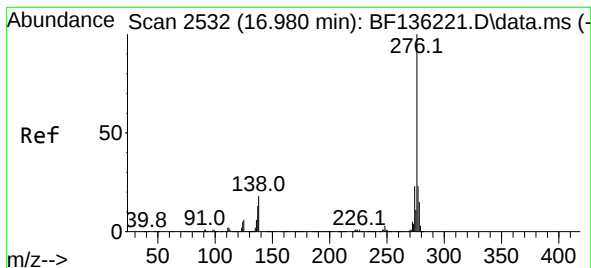
Ion Ratio Lower Upper

264 100

260 23.2 18.6 27.8

265 21.7 15.7 23.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.780 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

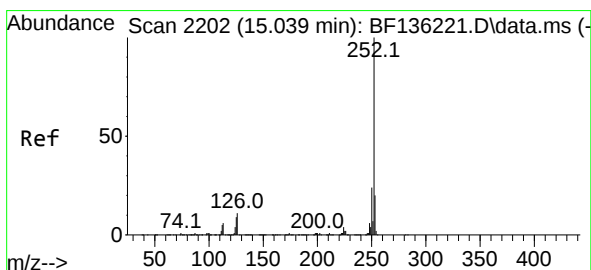
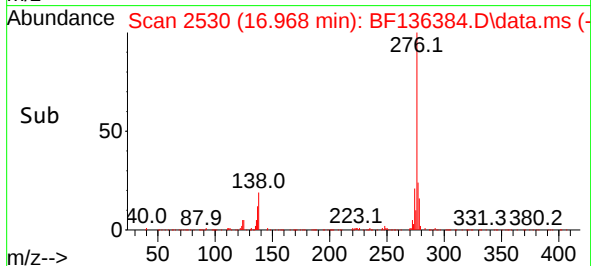
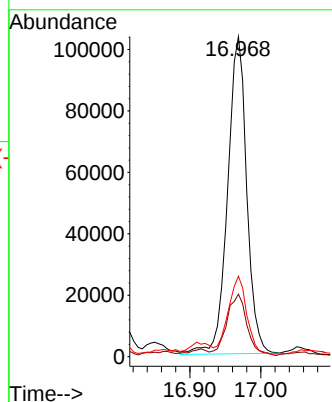
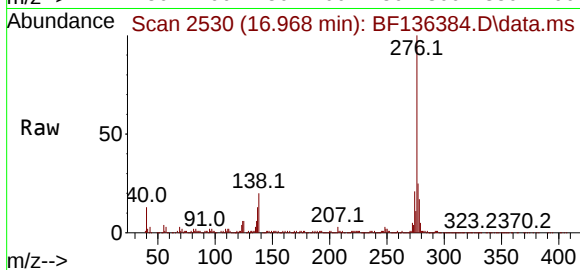
Tgt Ion:276 Resp: 193499

Ion Ratio Lower Upper

276 100

138 20.3 17.7 26.5

277 23.9 19.6 29.4



#88

Benzo(b)fluoranthene

Concen: 41.293 ng

RT: 15.033 min Scan# 2201

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

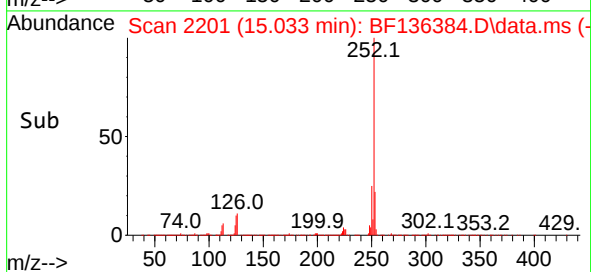
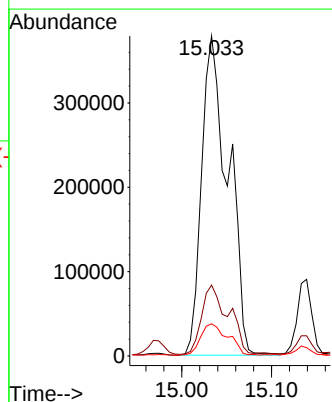
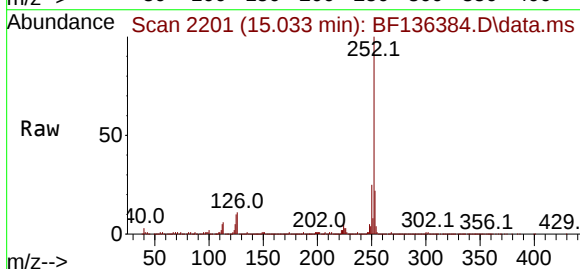
Tgt Ion:252 Resp: 778054

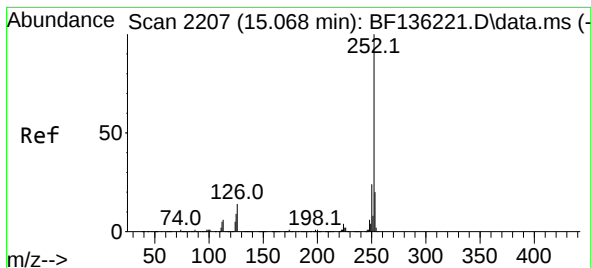
Ion Ratio Lower Upper

252 100

253 22.2 16.2 24.2

125 10.0 6.9 10.3





#89

Benzo(k)fluoranthene

Concen: 43.477 ng

RT: 15.033 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

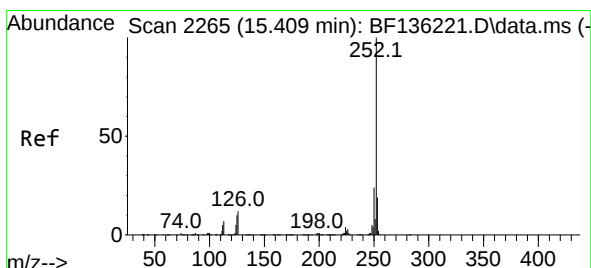
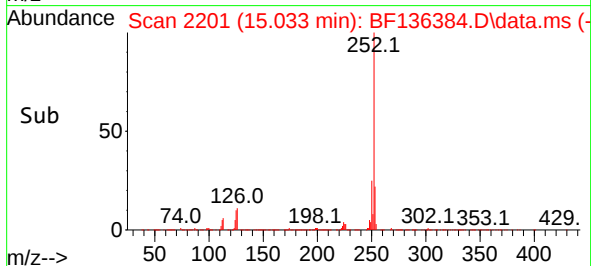
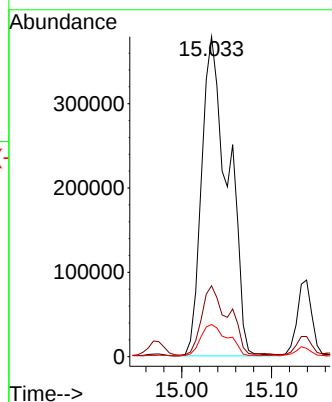
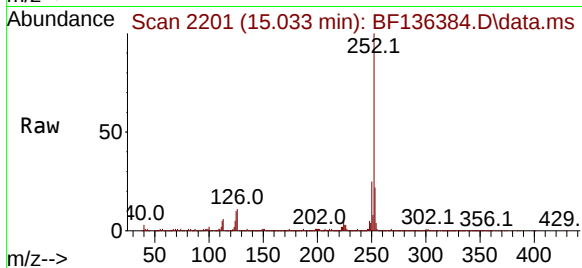
Tgt Ion:252 Resp: 778054

Ion Ratio Lower Upper

252 100

253 22.2 15.6 23.4

125 10.0 7.0 10.4



#90

Benzo(a)pyrene

Concen: 26.765 ng

RT: 15.404 min Scan# 2264

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

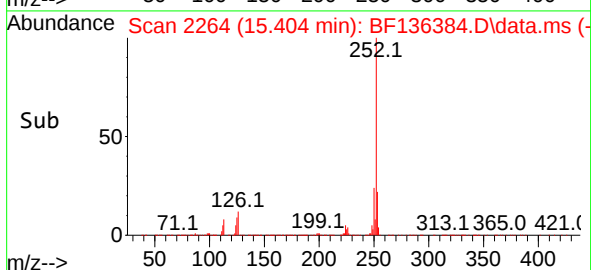
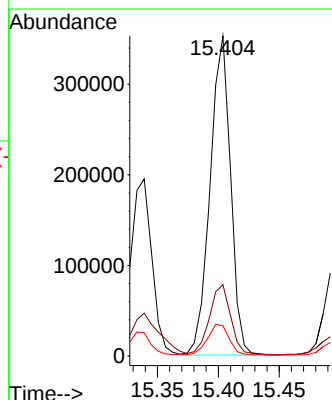
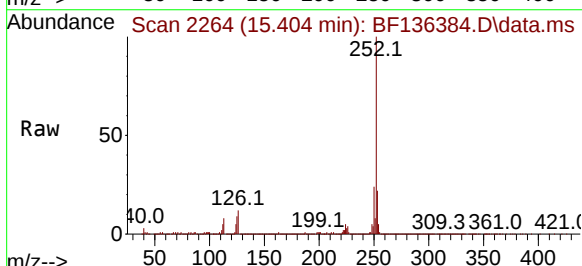
Tgt Ion:252 Resp: 412268

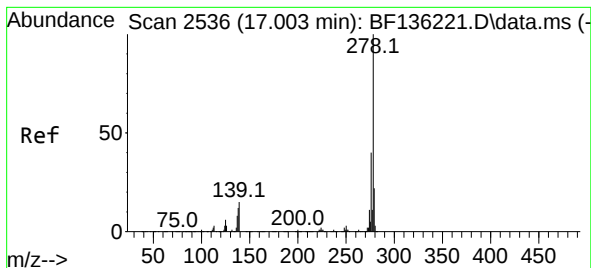
Ion Ratio Lower Upper

252 100

253 22.3 15.5 23.3

125 9.4 7.9 11.9





#91

Dibenzo(a,h)anthracene

Concen: 5.379 ng

RT: 16.980 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Instrument :

BNA_F

ClientSampleId :

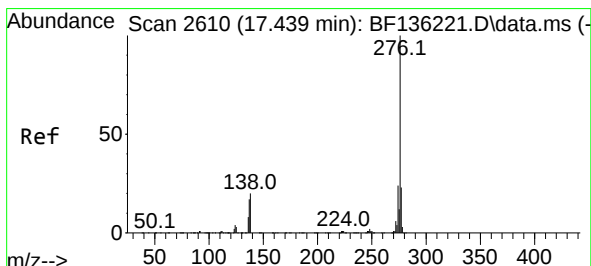
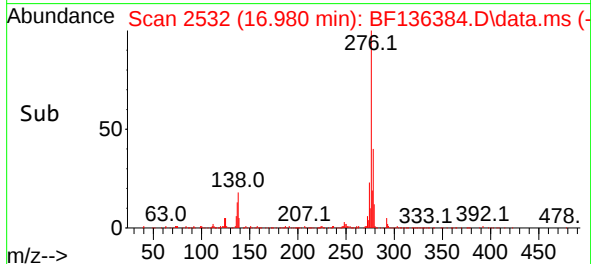
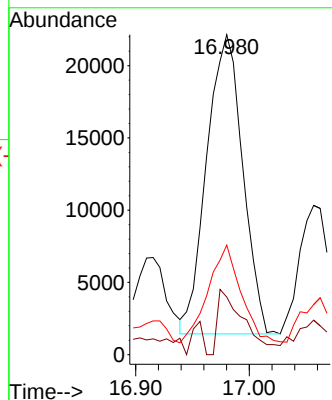
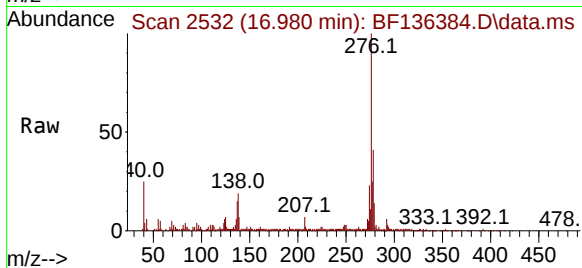
Tgt Ion:278 Resp: 45530

Ion Ratio Lower Upper

278 100

139 18.0 11.7 17.5#

279 34.2 17.8 26.8#



#92

Benzo(g,h,i)perylene

Concen: 11.640 ng

RT: 17.427 min Scan# 2608

Delta R.T. 0.006 min

Lab File: BF136384.D

Acq: 04 Dec 2023 16:23

Tgt Ion:276 Resp: 163953

Ion Ratio Lower Upper

276 100

277 22.8 18.6 27.8

138 19.7 15.8 23.8

