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 Data File : BF140751.D
 Acq On : 05 Dec 2024 16:26
 Operator : RC/JU
 Sample : P5096-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

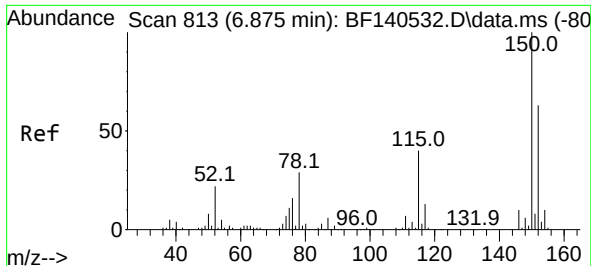
Instrument :
 BNA_F
 ClientSampleId :
 MH-B

Quant Time: Dec 05 16:47:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	67772	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	257536	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	140237	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	230543	20.000	ng	0.00
76) Chrysene-d12	14.051	240	124081	20.000	ng	0.00
86) Perylene-d12	15.556	264	139366	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	392022	98.694	ng	0.00
7) Phenol-d6	6.510	99	515763	98.219	ng	0.00
23) Nitrobenzene-d5	7.433	82	343892	68.302	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	135038	90.035	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	657927	69.901	ng	-0.01
79) Terphenyl-d14	12.980	244	473704	59.447	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.433	70	46345	14.933	ng	# 75
25) Isophorone	7.433	82	338728	40.335	ng	# 66
31) Naphthalene	8.169	128	32190	2.427	ng	99
32) Benzoic acid	7.975	122	173	7.253	ng	# 31
49) Acenaphthylene	9.769	152	62305	5.198	ng	99
51) 2,6-Dinitrotoluene	9.904	165	18685	8.920	ng	# 20
56) 4-Nitrophenol	10.116	139	4571	3.272	ng	# 1
63) Azobenzene	10.616	77	62208	7.000	ng	# 1
67) 4-Bromophenyl-phenylether	10.698	248	8585	3.616	ng	# 1
71) Phenanthrene	11.421	178	245570	22.159	ng	99
72) Anthracene	11.474	178	99511	9.180	ng	99
75) Fluoranthene	12.621	202	976682	81.173	ng	99
77) Benzidine	12.980	184	7221	2.002	ng	# 91
78) Pyrene	12.851	202	845052	73.657	ng	99
81) Benzo(a)anthracene	14.080	228	358669	43.667	ng	94
83) Chrysene	14.080	228	358669	47.756	ng	97
87) Indeno(1,2,3-cd)pyrene	17.074	276	173963	19.154	ng	97
88) Benzo(b)fluoranthene	15.121	252	690555	78.887	ng	98
89) Benzo(k)fluoranthene	15.121	252	690555	90.147	ng	98
90) Benzo(a)pyrene	15.498	252	384697	54.049	ng	99
91) Dibenzo(a,h)anthracene	17.250	278	44878	6.034	ng	94
92) Benzo(g,h,i)perylene	17.533	276	138725	18.277	ng	99

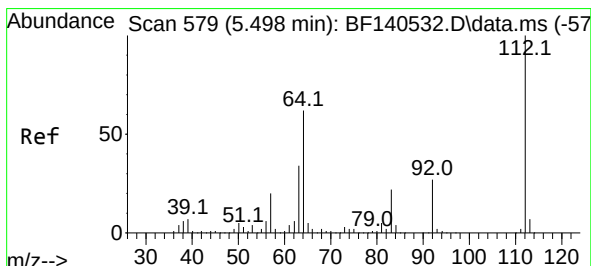
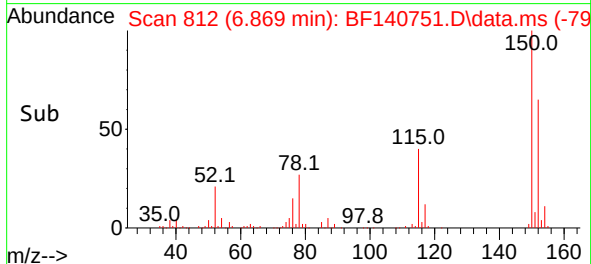
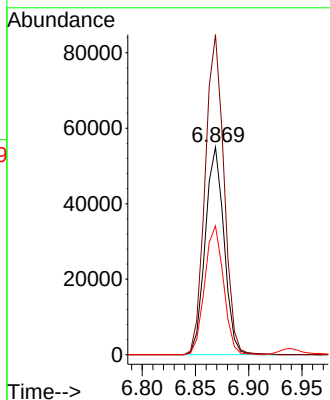
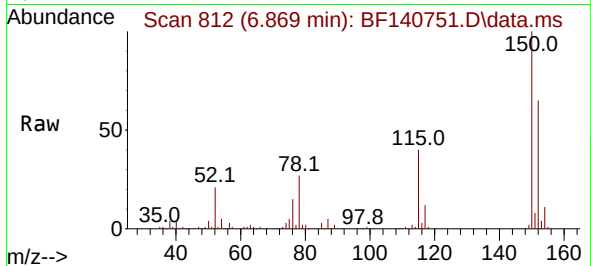
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

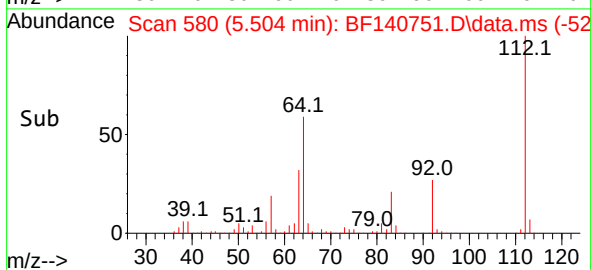
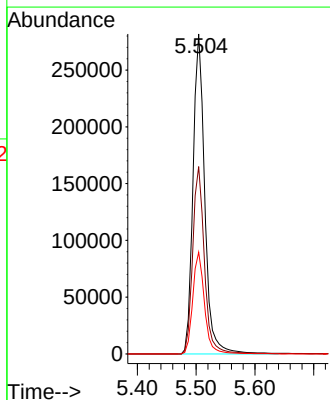
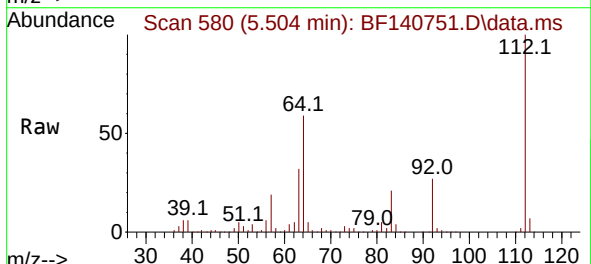
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ClientSampleId :
MH-B

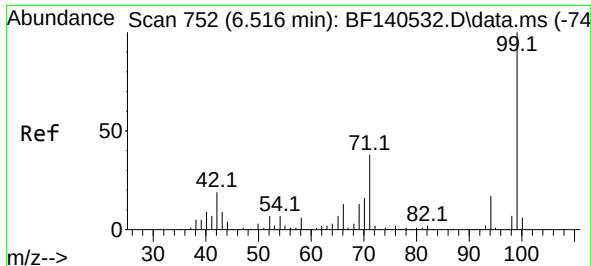
Tgt Ion:152 Resp: 67772
Ion Ratio Lower Upper
152 100
150 154.2 128.5 192.7
115 62.1 50.2 75.4



#5
2-Fluorophenol
Concen: 98.694 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

Tgt Ion:112 Resp: 392022
Ion Ratio Lower Upper
112 100
64 58.6 49.2 73.8
63 31.8 27.0 40.4





#7

Phenol-d6

Concen: 98.219 ng

RT: 6.510 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

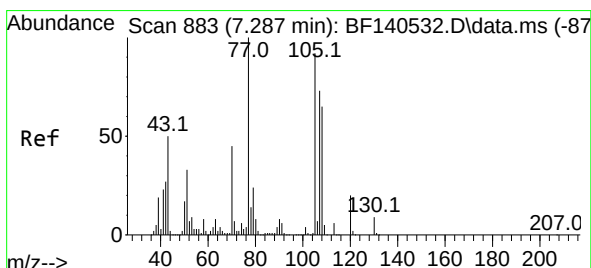
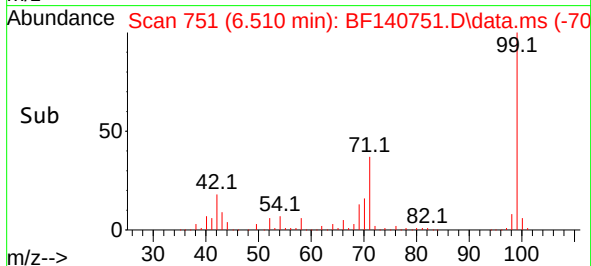
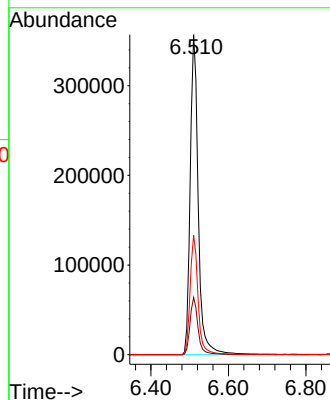
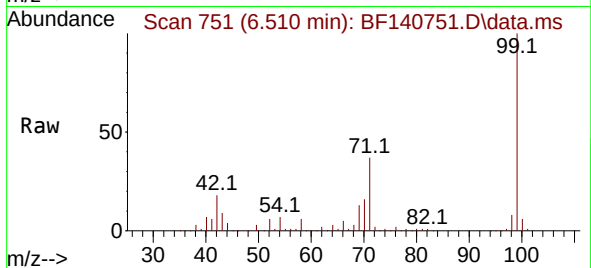
Tgt Ion: 99 Resp: 515763

Ion Ratio Lower Upper

99 100

42 17.9 15.4 23.0

71 37.3 30.6 46.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.933 ng

RT: 7.433 min Scan# 908

Delta R.T. 0.147 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Tgt Ion: 70 Resp: 46345

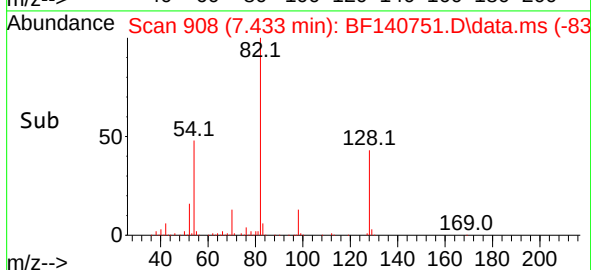
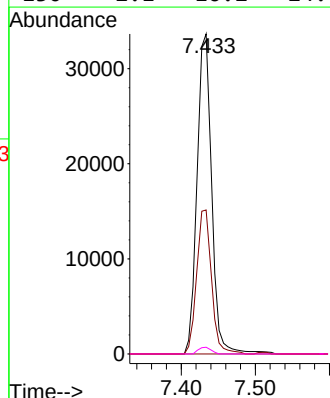
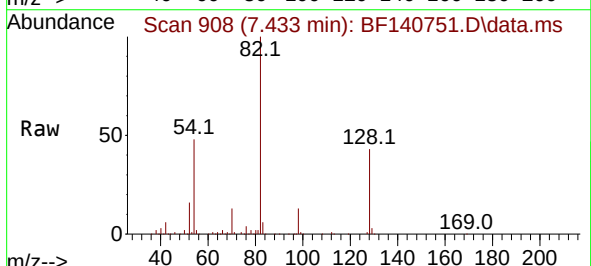
Ion Ratio Lower Upper

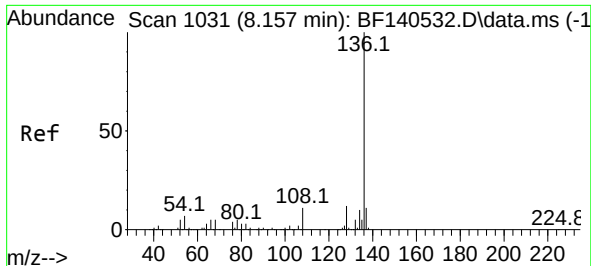
70 100

42 45.0 47.6 71.4#

101 0.0 7.6 11.4#

130 2.1 16.2 24.4#

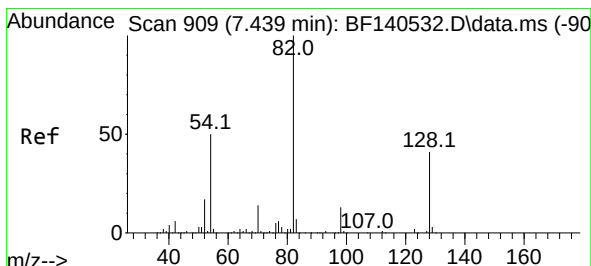
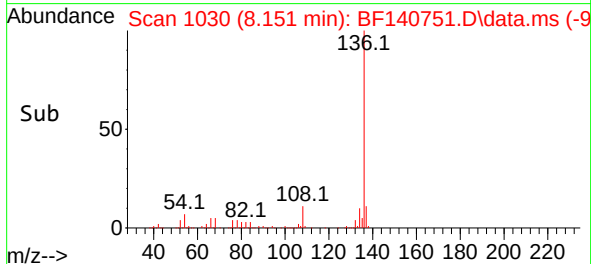
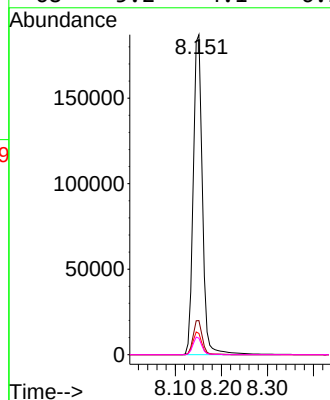
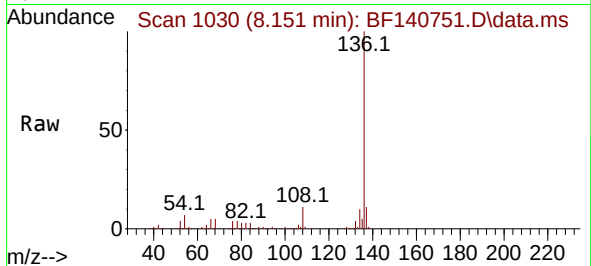




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

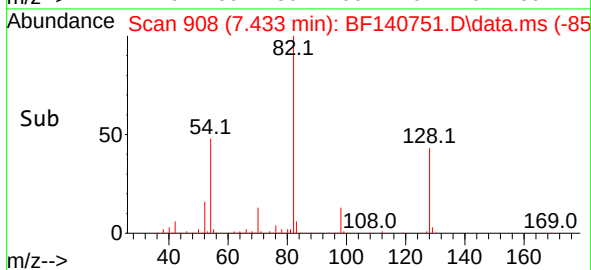
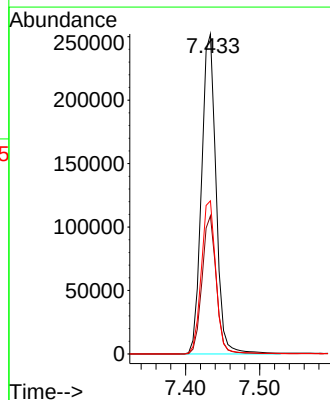
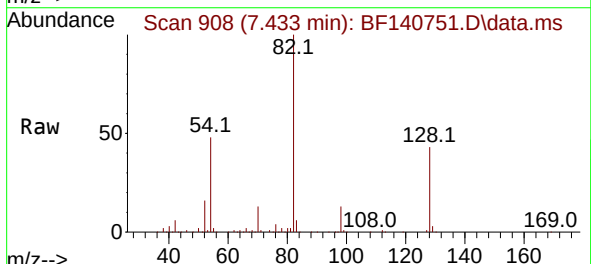
Instrument :
BNA_F
ClientSampleId :
MH-B

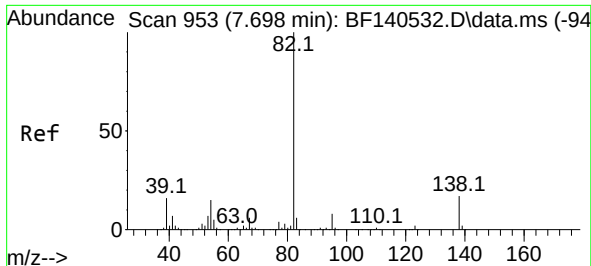
Tgt Ion:136	Resp: 257536
Ion Ratio	Lower Upper
136 100	
137 10.6	8.6 13.0
54 6.6	5.8 8.8
68 5.2	4.1 6.1



#23
Nitrobenzene-d5
Concen: 68.302 ng
RT: 7.433 min Scan# 908
Delta R.T. -0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

Tgt Ion: 82	Resp: 343892
Ion Ratio	Lower Upper
82 100	
128 43.2	33.0 49.4
54 47.9	39.5 59.3

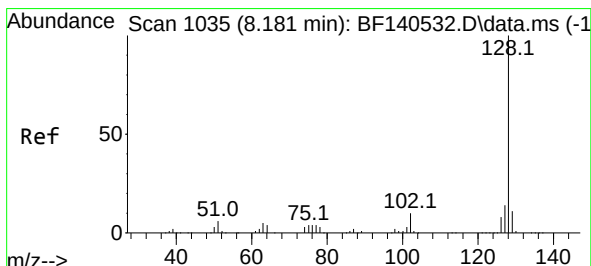
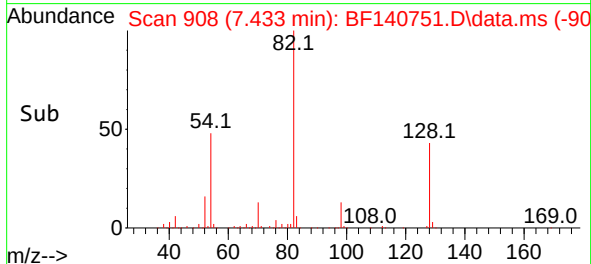
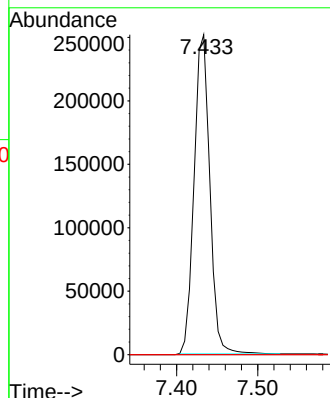
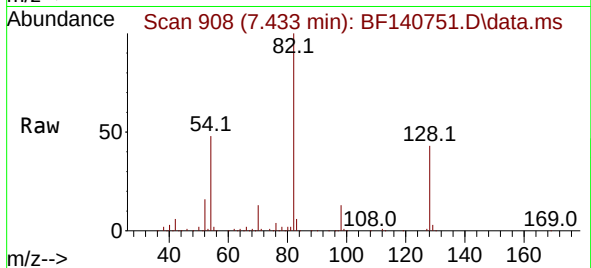




#25
Isophorone
Concen: 40.335 ng
RT: 7.433 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

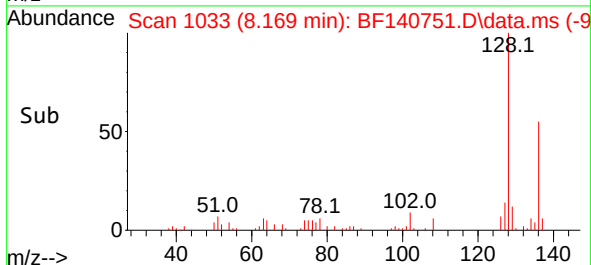
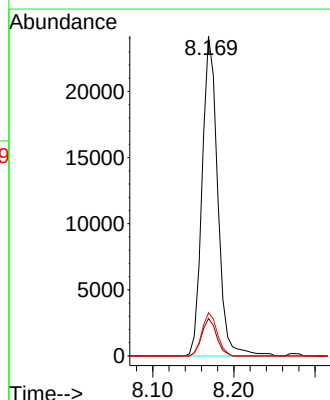
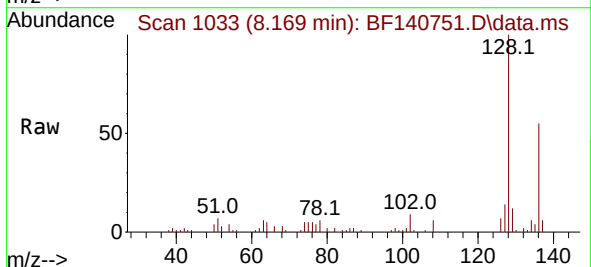
Instrument :
BNA_F
ClientSampleId :
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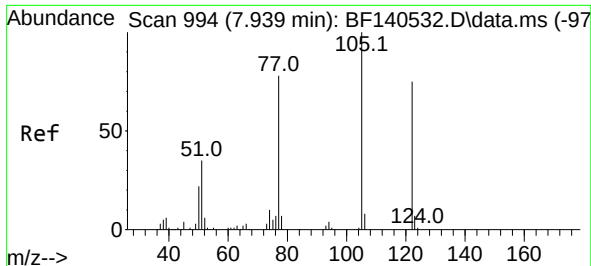
Tgt Ion: 82 Resp: 338728
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 13.8 20.6#



#31
Naphthalene
Concen: 2.427 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.012 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

Tgt Ion: 128 Resp: 32190
Ion Ratio Lower Upper
128 100
129 11.7 8.6 13.0
127 13.5 10.8 16.2

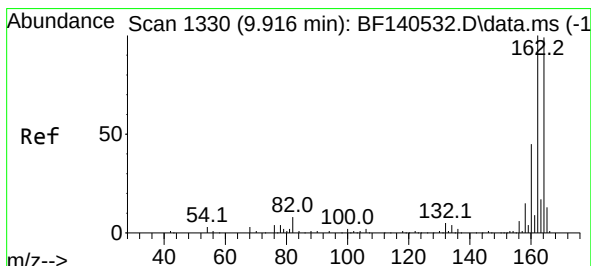
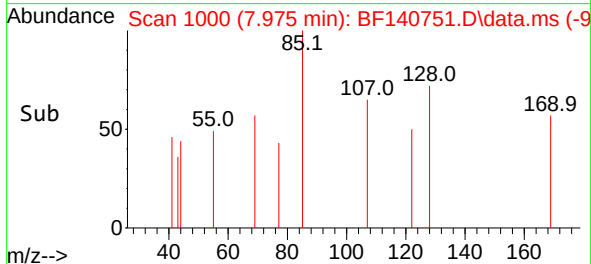
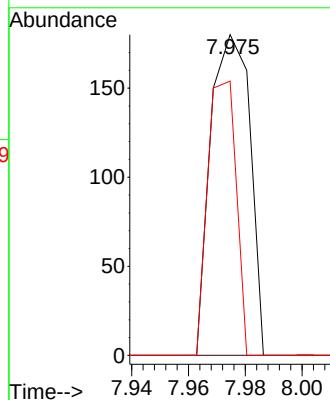
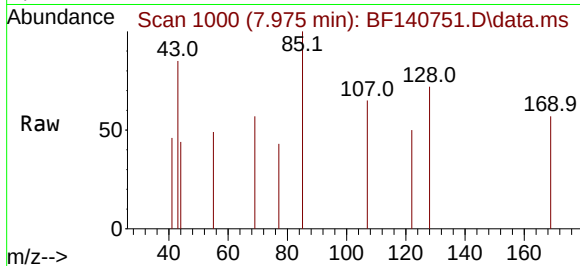




#32
Benzoic acid
Concen: 7.253 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.036 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

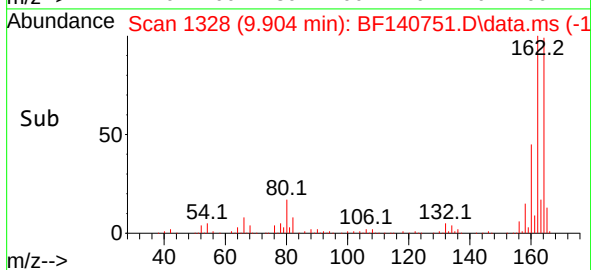
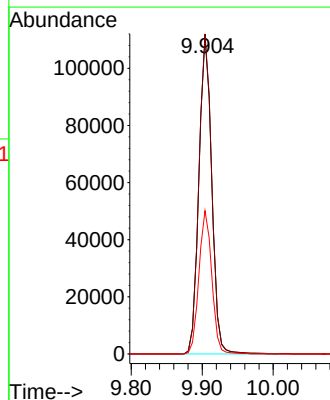
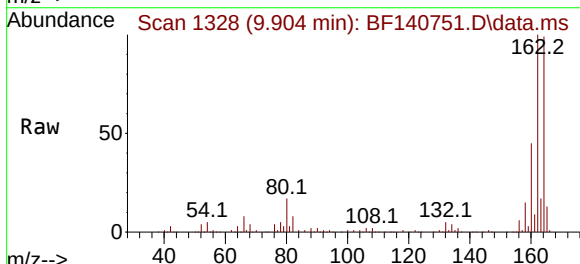
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ClientSampleId :
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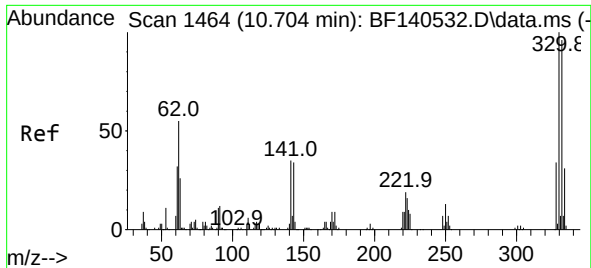
Tgt Ion:122 Resp: 173
Ion Ratio Lower Upper
122 100
105 0.0 109.3 149.3#
77 85.6 82.3 122.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

Tgt Ion:164 Resp: 140237
Ion Ratio Lower Upper
164 100
162 100.8 80.6 120.8
160 45.1 36.2 54.4

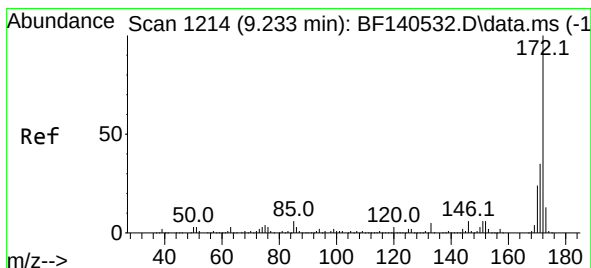
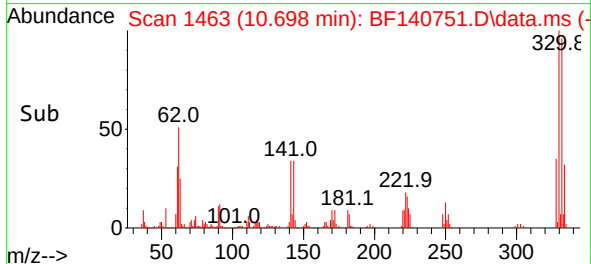
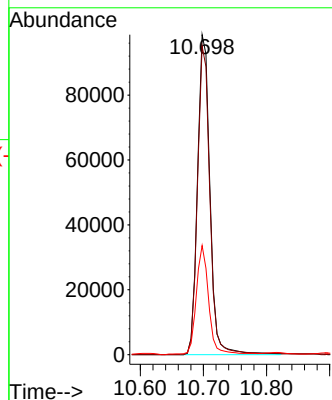
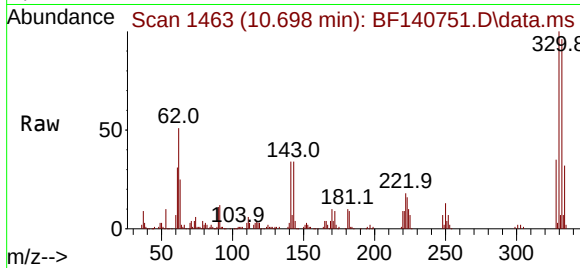




#42
 2,4,6-Tribromophenol
 Concen: 90.035 ng
 RT: 10.698 min Scan# 1463
 Delta R.T. -0.006 min
 Lab File: BF140751.D
 Acq: 05 Dec 2024 16:26

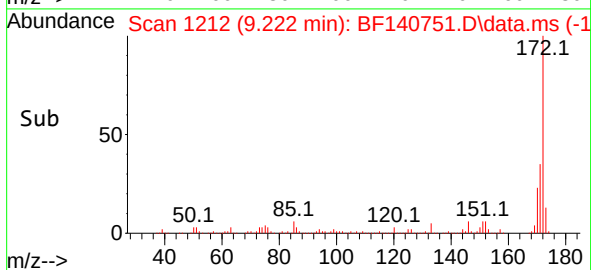
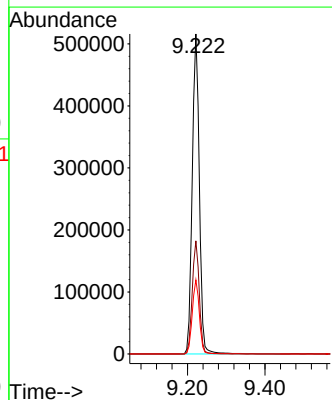
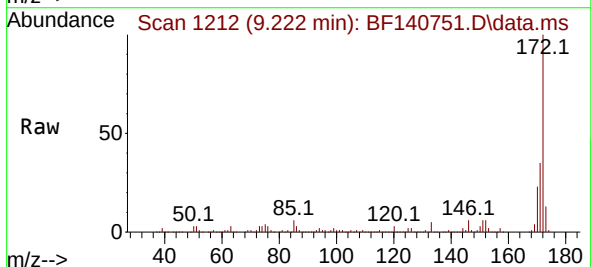
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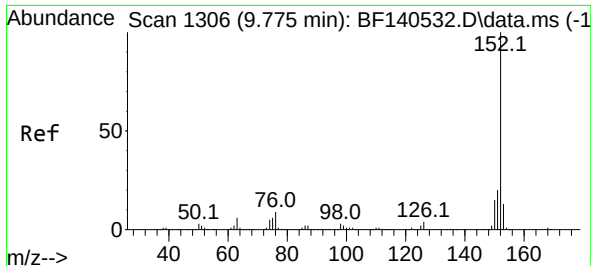
Tgt Ion:330 Resp: 135038
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.9 115.3
 141 34.5 26.7 40.1



#45
 2-Fluorobiphenyl
 Concen: 69.901 ng
 RT: 9.222 min Scan# 1212
 Delta R.T. -0.012 min
 Lab File: BF140751.D
 Acq: 05 Dec 2024 16:26

Tgt Ion:172 Resp: 657927
 Ion Ratio Lower Upper
 172 100
 171 35.3 28.4 42.6
 170 23.2 19.0 28.6





#49

Acenaphthylene

Concen: 5.198 ng

RT: 9.769 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

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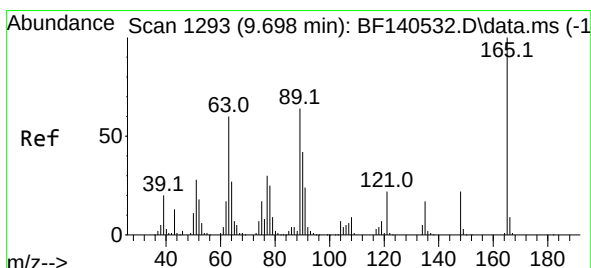
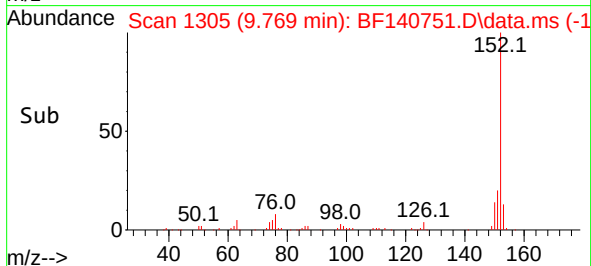
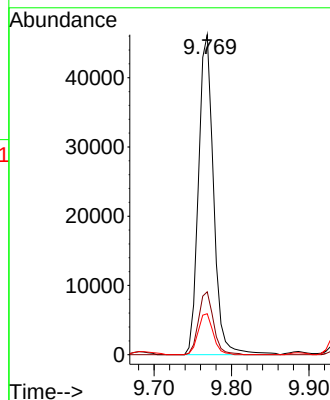
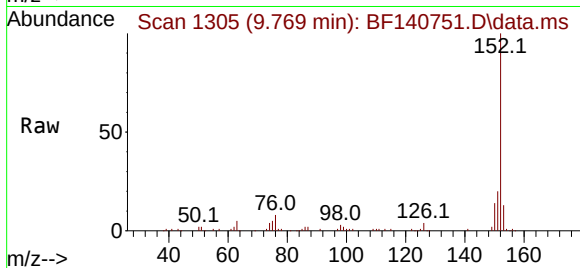
Tgt Ion:152 Resp: 62305

Ion Ratio Lower Upper

152 100

151 19.7 15.9 23.9

153 12.8 10.6 16.0



#51

2,6-Dinitrotoluene

Concen: 8.920 ng

RT: 9.904 min Scan# 1328

Delta R.T. 0.206 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

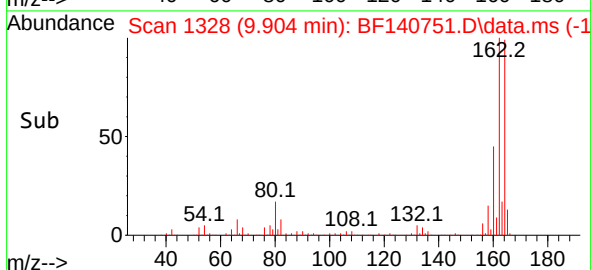
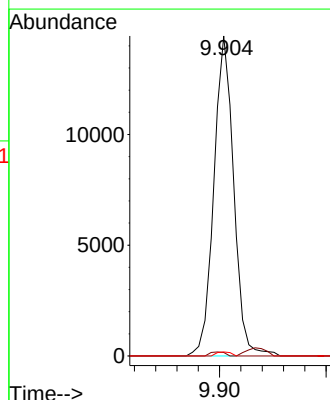
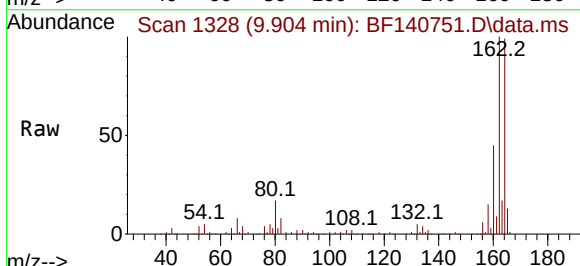
Tgt Ion:165 Resp: 18685

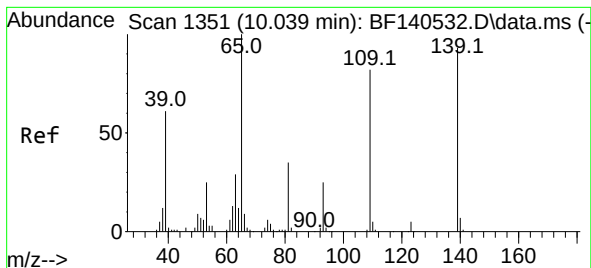
Ion Ratio Lower Upper

165 100

63 1.1 49.9 74.9#

89 1.3 50.9 76.3#





#56

4-Nitrophenol

Concen: 3.272 ng

RT: 10.116 min Scan# 1

Delta R.T. 0.077 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

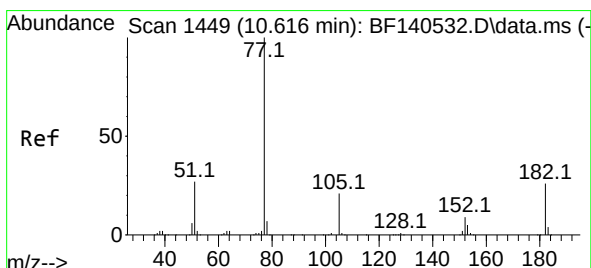
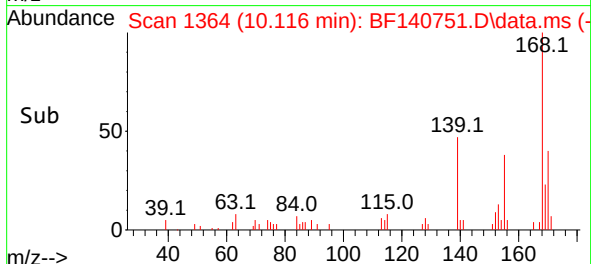
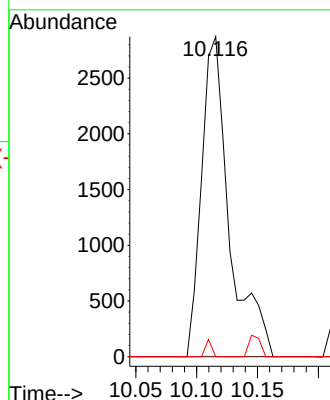
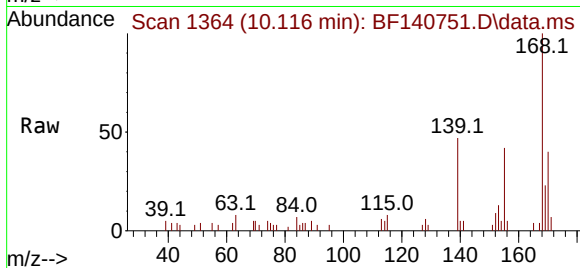
Tgt Ion:139 Resp: 4571

Ion Ratio Lower Upper

139 100

109 0.0 68.4 108.4#

65 0.0 88.6 128.6#



#63

Azobenzene

Concen: 7.000 ng

RT: 10.616 min Scan# 1449

Delta R.T. -0.000 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Tgt Ion: 77 Resp: 62208

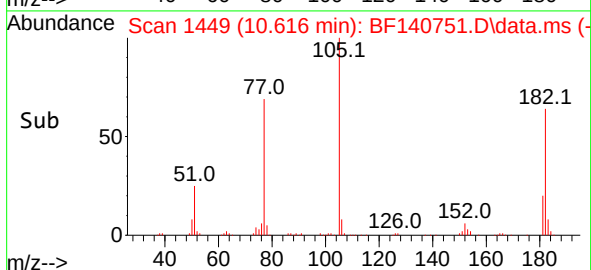
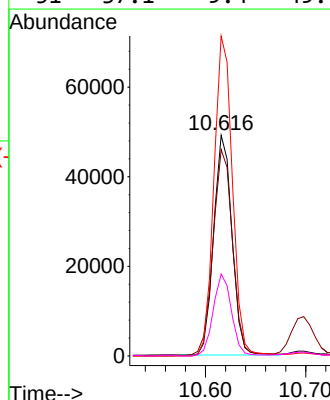
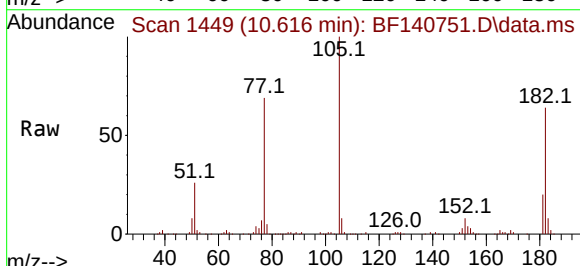
Ion Ratio Lower Upper

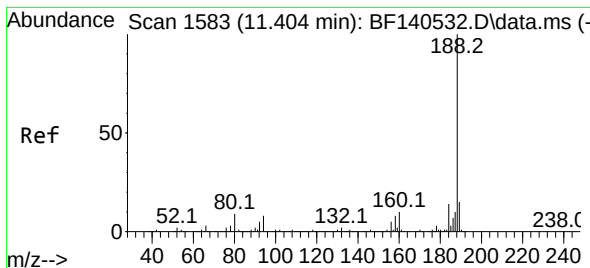
77 100

182 93.5 5.3 45.3#

105 145.0 0.3 40.3#

51 37.1 9.4 49.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

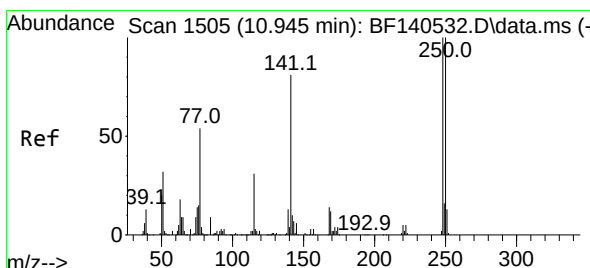
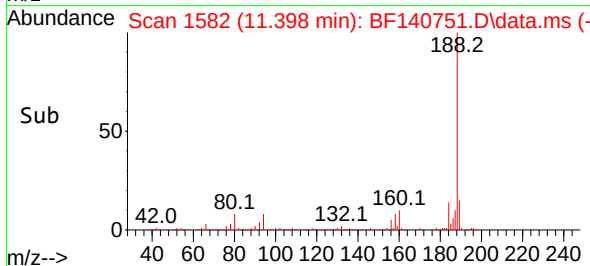
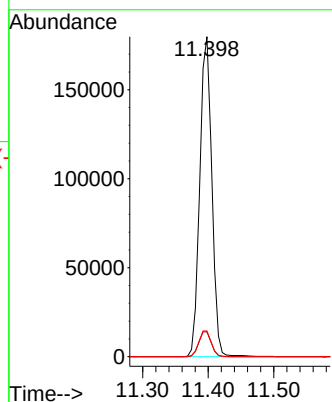
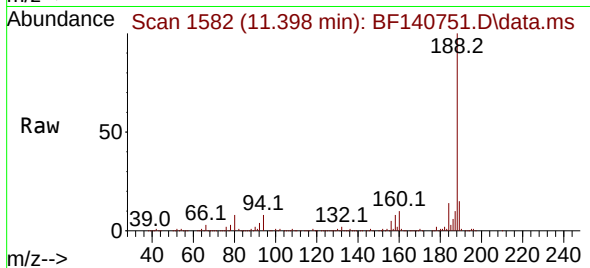
Tgt Ion:188 Resp: 230543

Ion Ratio Lower Upper

188 100

94 7.8 6.4 9.6

80 8.0 6.9 10.3



#67

4-Bromophenyl-phenylether

Concen: 3.616 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.247 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

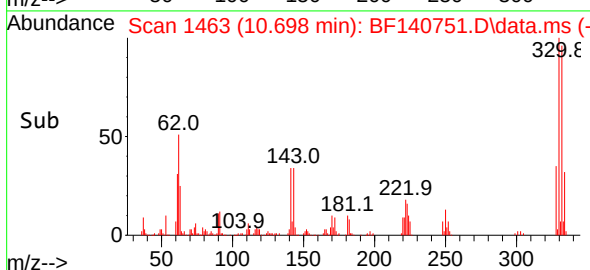
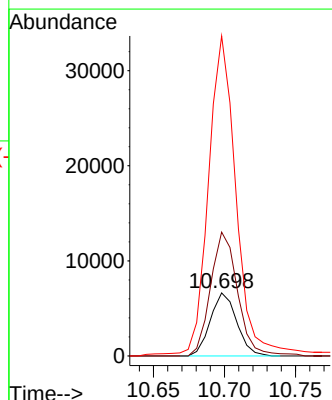
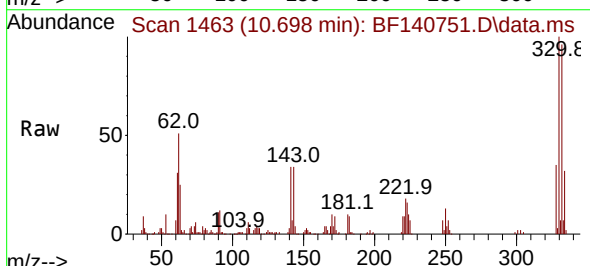
Tgt Ion:248 Resp: 8585

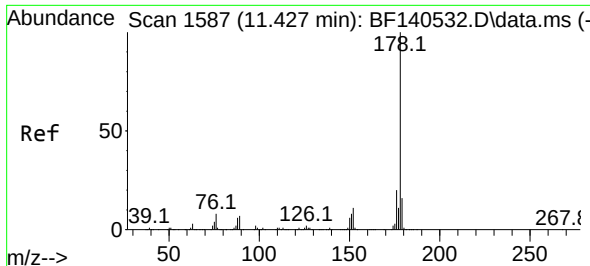
Ion Ratio Lower Upper

248 100

250 196.6 79.8 119.8#

141 508.0 64.7 97.1#

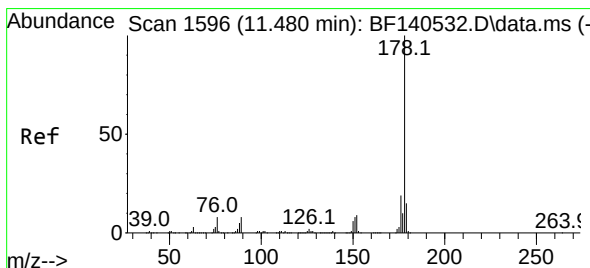
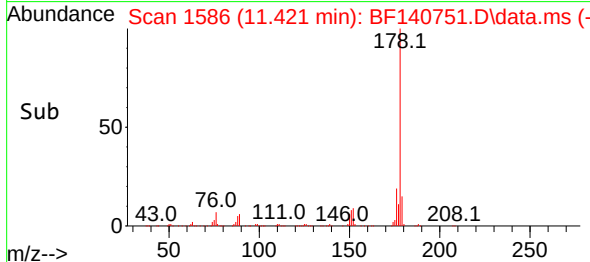
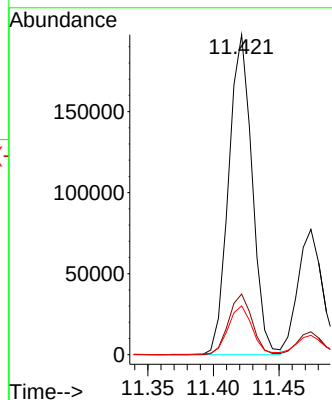
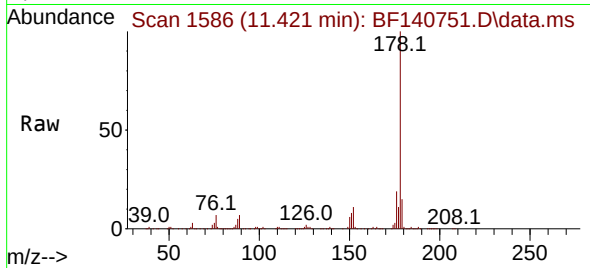




#71
Phenanthrene
Concen: 22.159 ng
RT: 11.421 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

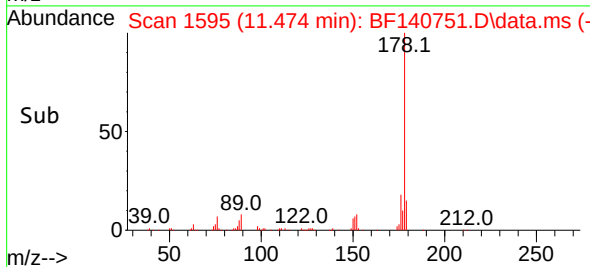
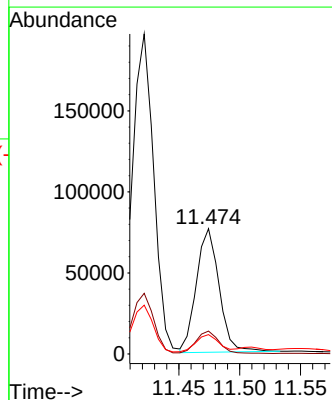
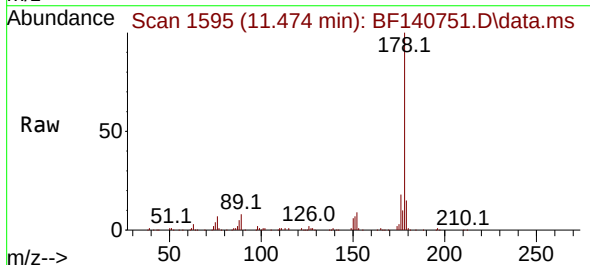
Instrument :
BNA_F
ClientSampleId :
MH-B

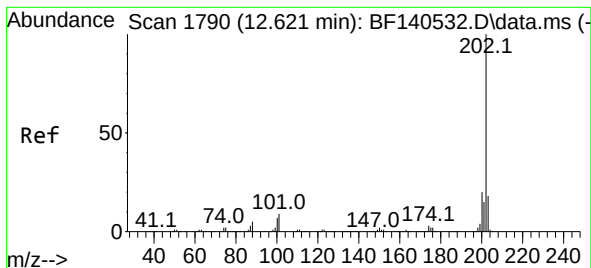
Tgt Ion:178 Resp: 245570
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.3 12.4 18.6



#72
Anthracene
Concen: 9.180 ng
RT: 11.474 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF140751.D
Acq: 05 Dec 2024 16:26

Tgt Ion:178 Resp: 99511
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.4
179 15.4 12.2 18.4





#75

Fluoranthene

Concen: 81.173 ng

RT: 12.621 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

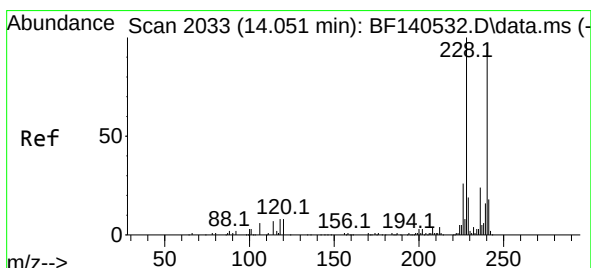
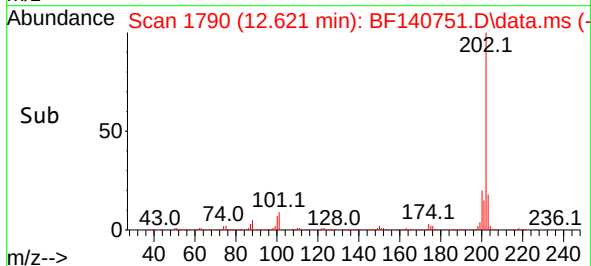
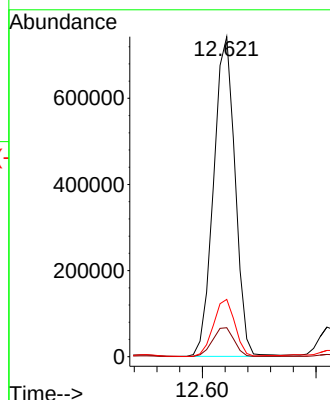
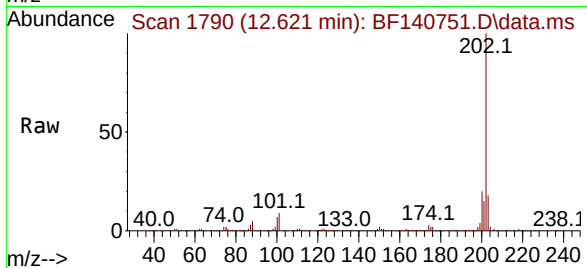
Tgt Ion:202 Resp: 976682

Ion Ratio Lower Upper

202 100

101 9.1 0.0 28.9

203 17.9 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.000 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

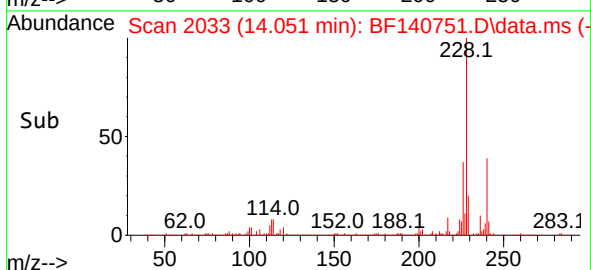
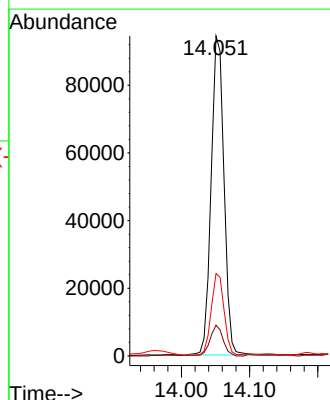
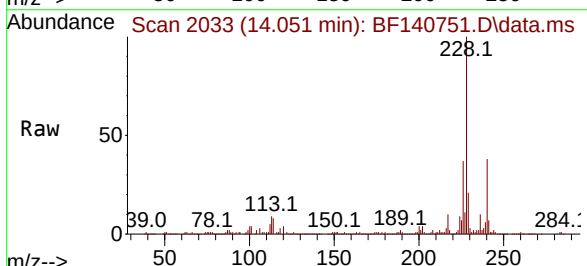
Tgt Ion:240 Resp: 124081

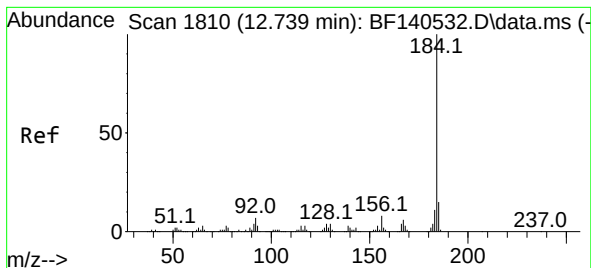
Ion Ratio Lower Upper

240 100

120 9.6 7.3 10.9

236 25.8 20.6 31.0





#77

Benzidine

Concen: 2.002 ng

RT: 12.980 min Scan# 1851

Delta R.T. 0.241 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

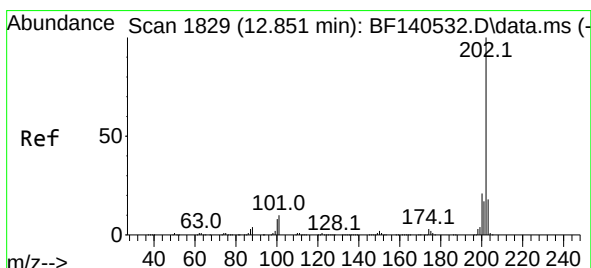
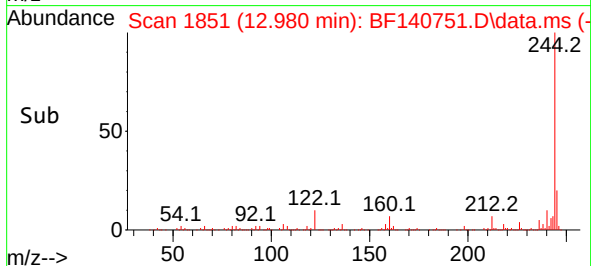
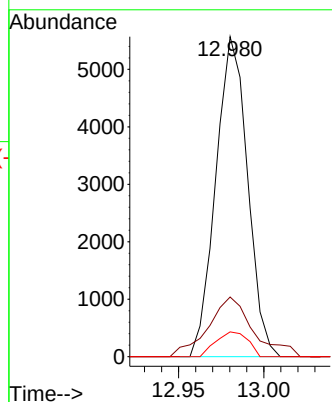
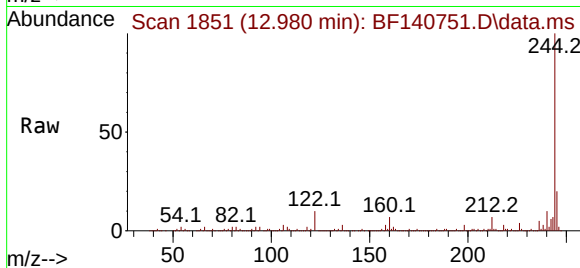
Tgt Ion:184 Resp: 7221

Ion Ratio Lower Upper

184 100

185 18.6 11.7 17.5#

183 7.8 8.8 13.2#



#78

Pyrene

Concen: 73.657 ng

RT: 12.851 min Scan# 1829

Delta R.T. -0.000 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

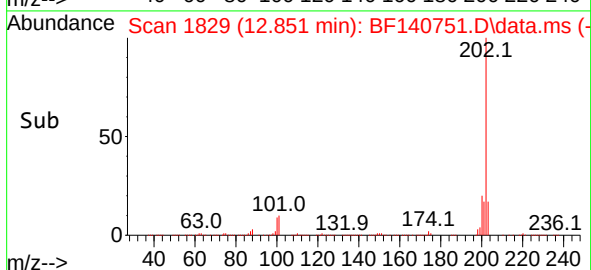
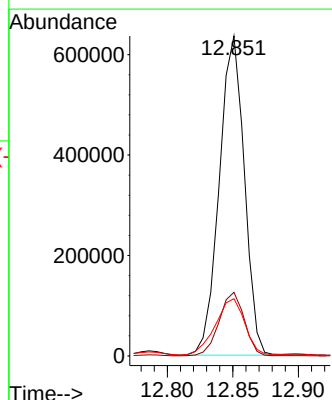
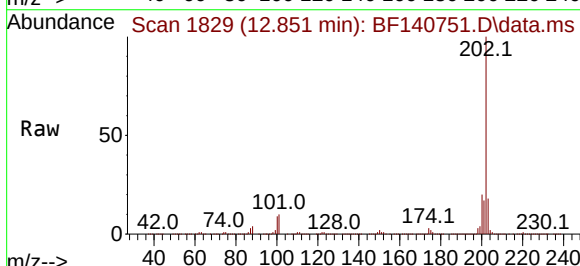
Tgt Ion:202 Resp: 845052

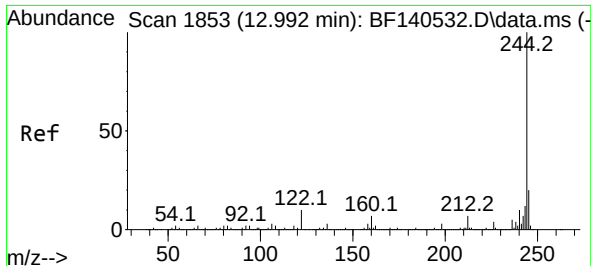
Ion Ratio Lower Upper

202 100

200 19.9 16.5 24.7

203 17.9 14.2 21.4

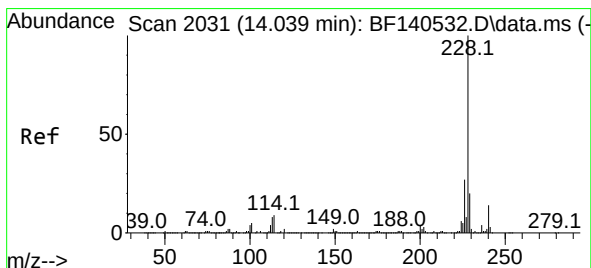
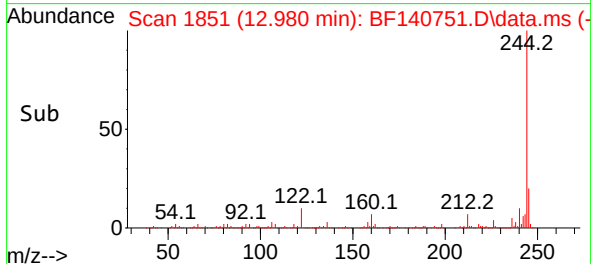
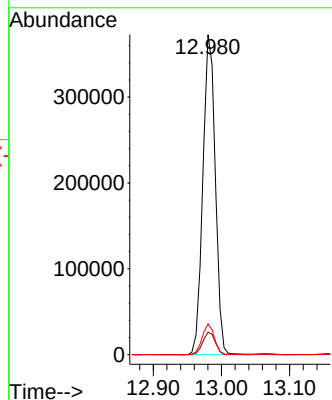
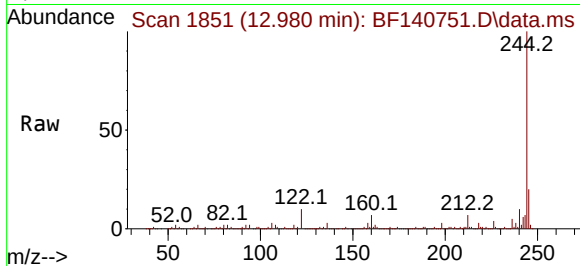




#79
 Terphenyl-d14
 Concen: 59.447 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.012 min
 Lab File: BF140751.D
 Acq: 05 Dec 2024 16:26

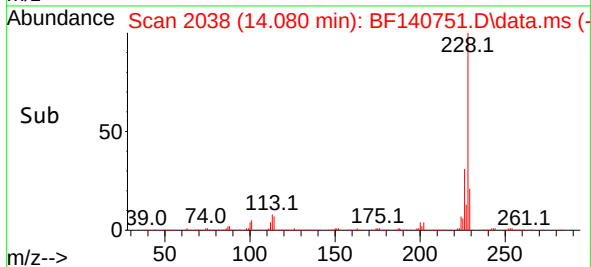
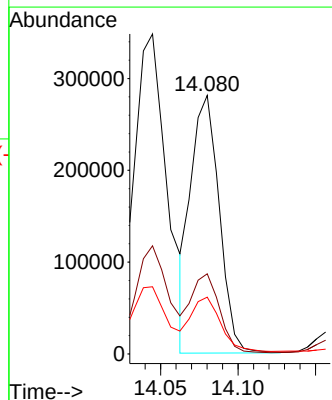
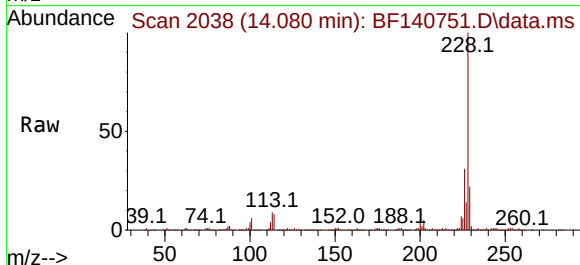
Instrument :
 BNA_F
 ClientSampleId :
 MH-B

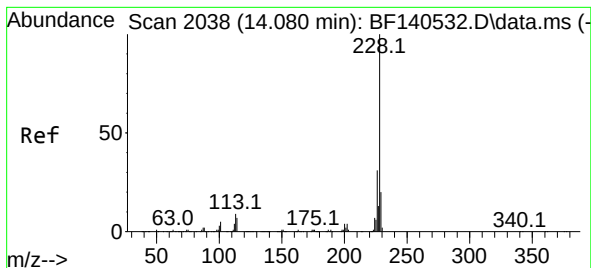
Tgt Ion:244 Resp: 473704
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.8
 122 9.6 8.0 12.0



#81
 Benzo(a)anthracene
 Concen: 43.667 ng
 RT: 14.080 min Scan# 2038
 Delta R.T. 0.041 min
 Lab File: BF140751.D
 Acq: 05 Dec 2024 16:26

Tgt Ion:228 Resp: 358669
 Ion Ratio Lower Upper
 228 100
 226 31.0 21.8 32.8
 229 22.0 15.8 23.6





#83

Chrysene

Concen: 47.756 ng

RT: 14.080 min Scan# 2038

Delta R.T. -0.000 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

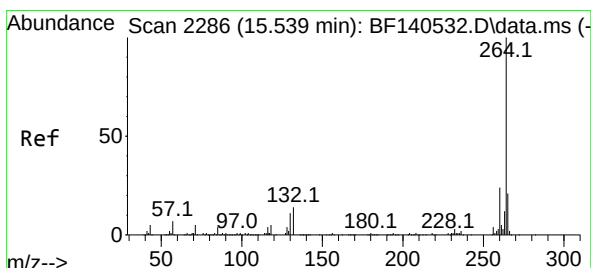
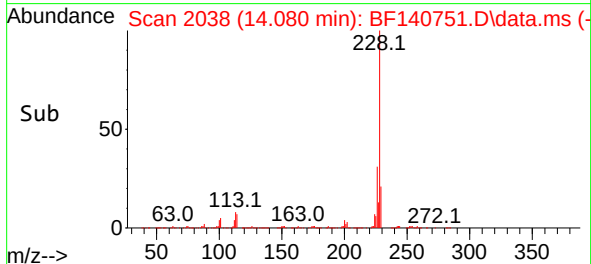
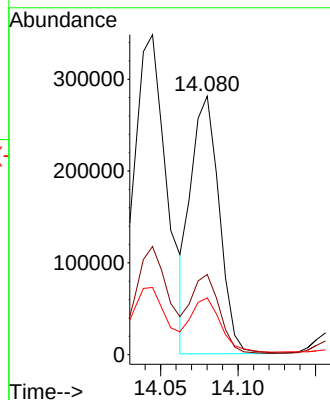
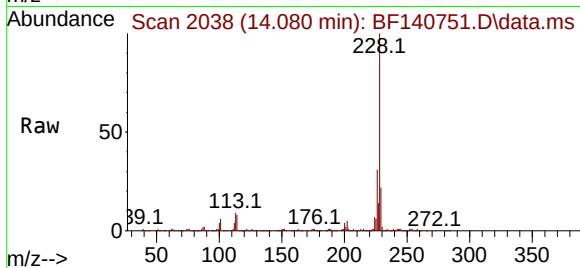
Tgt Ion:228 Resp: 358669

Ion Ratio Lower Upper

228 100

226 31.0 24.4 36.6

229 22.0 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.556 min Scan# 2289

Delta R.T. 0.018 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

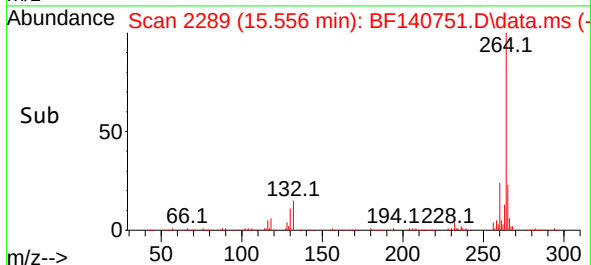
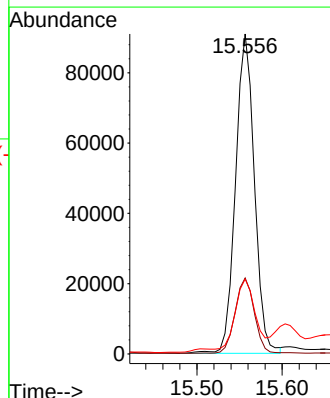
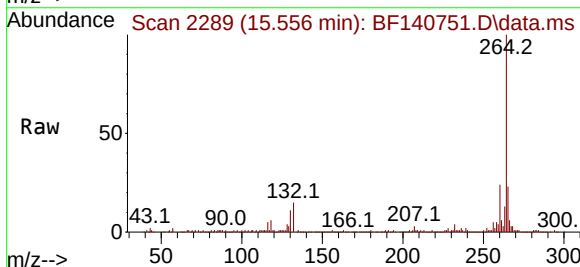
Tgt Ion:264 Resp: 139366

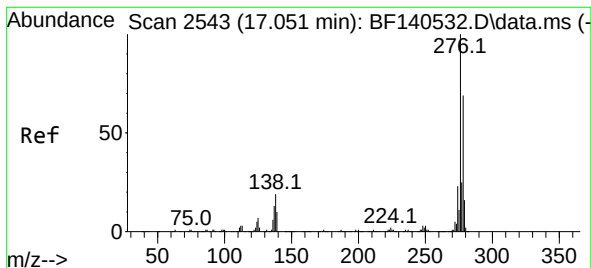
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.6

265 23.4 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 19.154 ng

RT: 17.074 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

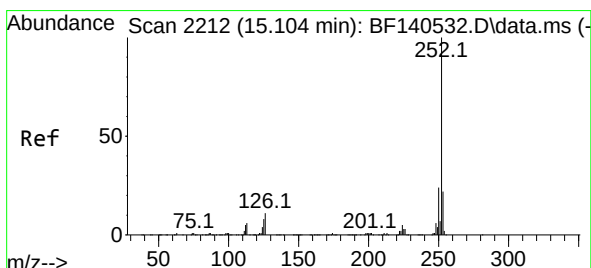
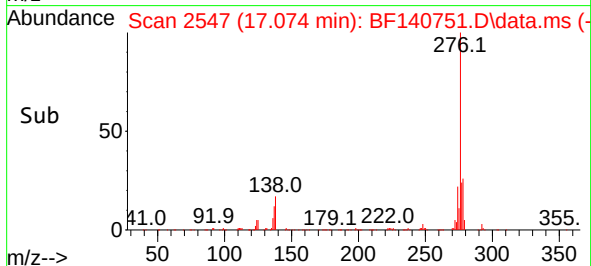
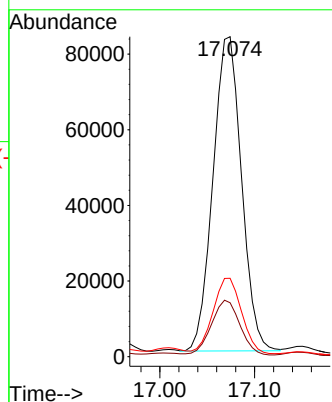
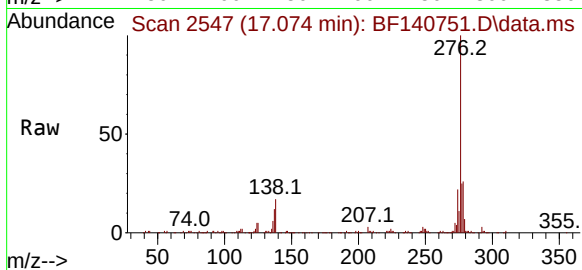
Tgt Ion:276 Resp: 173963

Ion Ratio Lower Upper

276 100

138 17.4 15.5 23.3

277 24.6 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 78.887 ng

RT: 15.121 min Scan# 2215

Delta R.T. 0.018 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

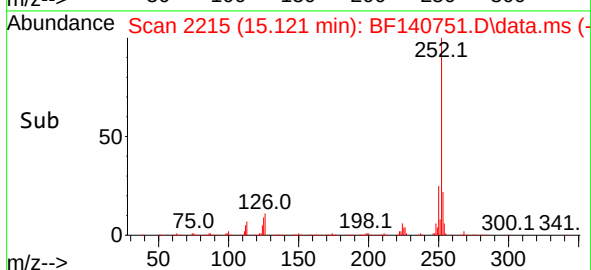
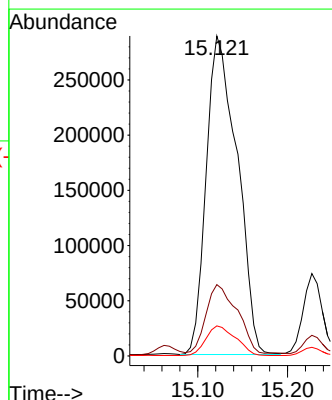
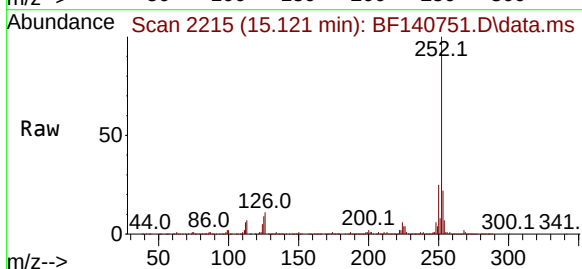
Tgt Ion:252 Resp: 690555

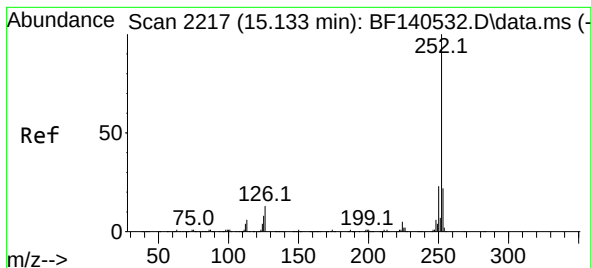
Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

125 9.4 6.7 10.1





#89

Benzo(k)fluoranthene

Concen: 90.147 ng

RT: 15.121 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

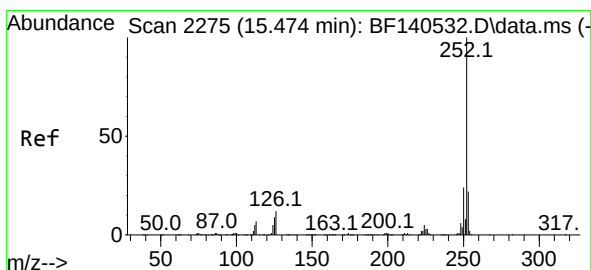
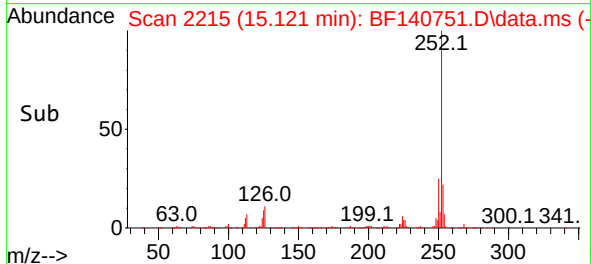
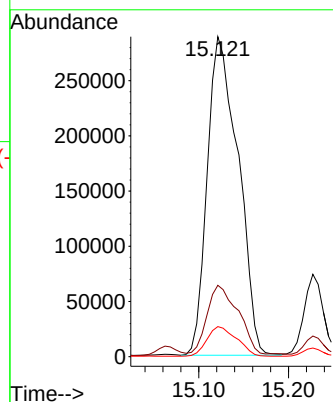
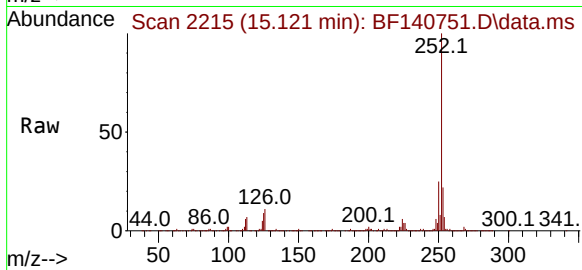
Tgt Ion:252 Resp: 690555

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 9.4 6.5 9.7



#90

Benzo(a)pyrene

Concen: 54.049 ng

RT: 15.498 min Scan# 2279

Delta R.T. 0.023 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

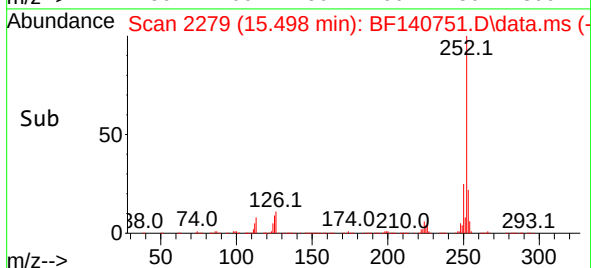
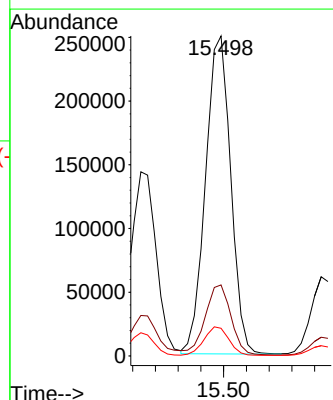
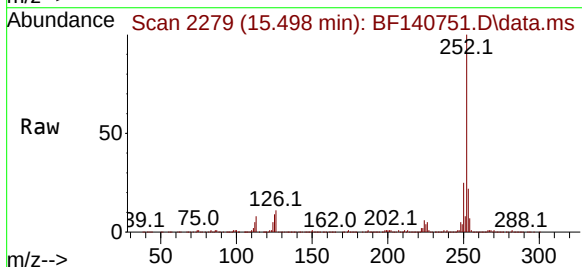
Tgt Ion:252 Resp: 384697

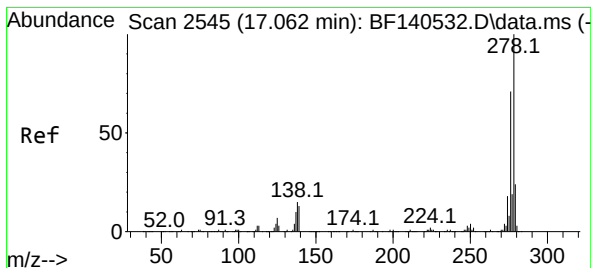
Ion Ratio Lower Upper

252 100

253 22.2 17.3 25.9

125 8.7 7.0 10.6





#91

Dibenzo(a,h)anthracene

Concen: 6.034 ng

RT: 17.250 min Scan# 21

Delta R.T. 0.188 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Instrument :

BNA_F

ClientSampleId :

MH-B

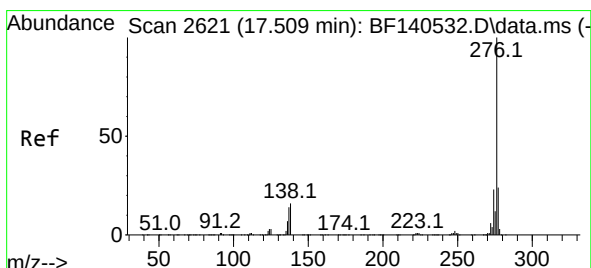
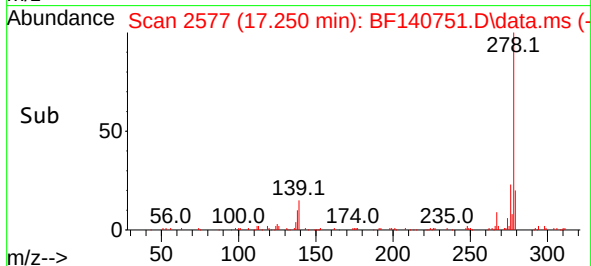
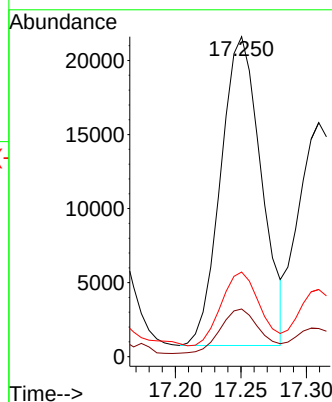
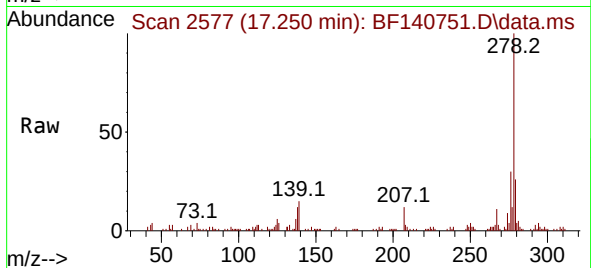
Tgt Ion:278 Resp: 44878

Ion Ratio Lower Upper

278 100

139 14.9 10.2 15.4

279 26.4 18.9 28.3



#92

Benzo(g,h,i)perylene

Concen: 18.277 ng

RT: 17.533 min Scan# 2625

Delta R.T. 0.023 min

Lab File: BF140751.D

Acq: 05 Dec 2024 16:26

Tgt Ion:276 Resp: 138725

Ion Ratio Lower Upper

276 100

277 23.6 18.9 28.3

138 17.5 13.2 19.8

