

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
 Data File : BF138750.D
 Acq On : 02 Aug 2024 16:42
 Operator : RC/JU
 Sample : P3414-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07312024-B

Quant Time: Aug 02 17:02:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 30 17:50:01 2024
 Response via : Initial Calibration

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

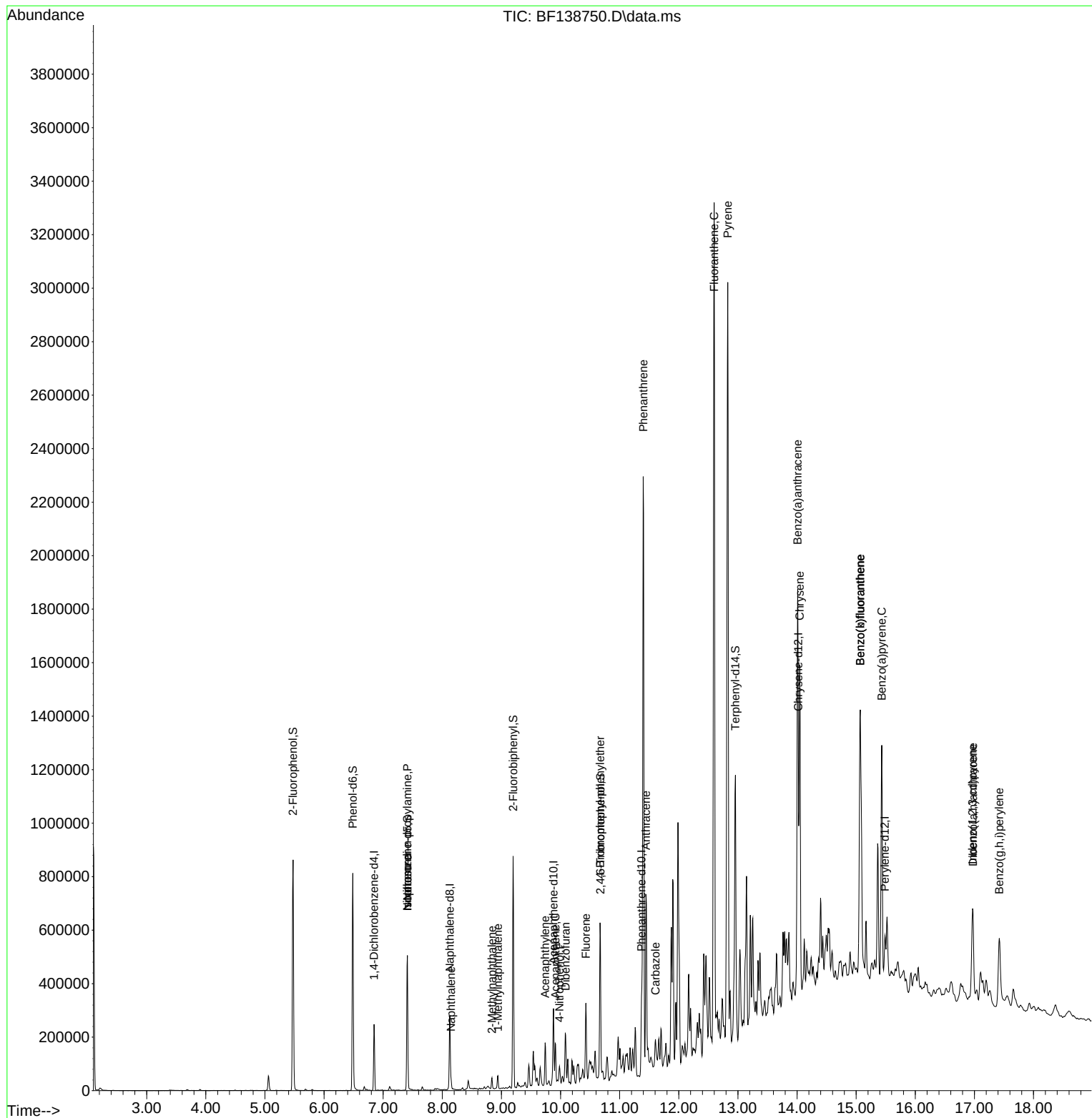
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	46406	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	157893	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	78797	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	155464	20.000	ng	0.00
76) Chrysene-d12	14.021	240	91131	20.000	ng	0.02
86) Perylene-d12	15.486	264	81559	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	292898	97.430	ng	0.00
7) Phenol-d6	6.487	99	348769	86.410	ng	0.00
23) Nitrobenzene-d5	7.410	82	210058	65.044	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	68415	105.995	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	346620	66.093	ng	0.00
79) Terphenyl-d14	12.957	244	457998	84.144	ng	0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.410	70	28527	11.702	ng	# 74
25) Isophorone	7.410	82	207900	37.701	ng	# 66
31) Naphthalene	8.145	128	19988	2.405	ng	99
37) 2-Methylnaphthalene	8.839	142	15466	2.947	ng	98
38) 1-Methylnaphthalene	8.939	142	17368	3.377	ng	97
49) Acenaphthylene	9.739	152	79516	12.215	ng	97
52) Acenaphthene	9.910	154	45859	10.480	ng	99
55) Dibenzofuran	10.086	168	65167	10.550	ng	# 97
56) 4-Nitrophenol	9.981	139	1797	2.542	ng	# 49
58) Fluorene	10.428	166	104226	21.188	ng	97
67) 4-Bromophenyl-phenylether	10.669	248	5282	3.138	ng	# 1
71) Phenanthrene	11.398	178	1246914	155.764	ng	99
72) Anthracene	11.445	178	364679	46.243	ng	99
73) Carbazole	11.604	167	41795	6.143	ng	93
75) Fluoranthene	12.598	202	1974060	264.149	ng	99
78) Pyrene	12.827	202	1758267	204.920	ng	97
81) Benzo(a)anthracene	14.010	228	821421	130.894	ng	96
83) Chrysene	14.045	228	605663	106.976	ng	96
87) Indeno(1,2,3-cd)pyrene	16.968	276	252169	43.144	ng	92
88) Benzo(b)fluoranthene	15.068	252	907265	179.448	ng	98
89) Benzo(k)fluoranthene	15.068	252	907265	207.259	ng	97
90) Benzo(a)pyrene	15.433	252	505875	118.954	ng	99
91) Dibenzo(a,h)anthracene	16.974	278	61304	12.777	ng	# 77
92) Benzo(g,h,i)perylene	17.421	276	228827	45.961	ng	99

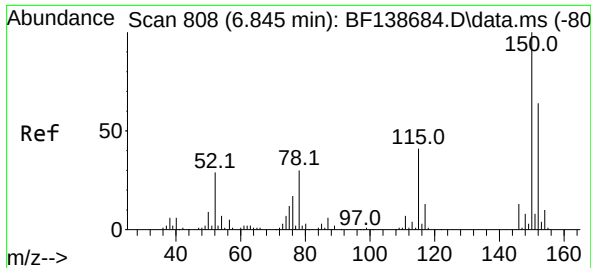
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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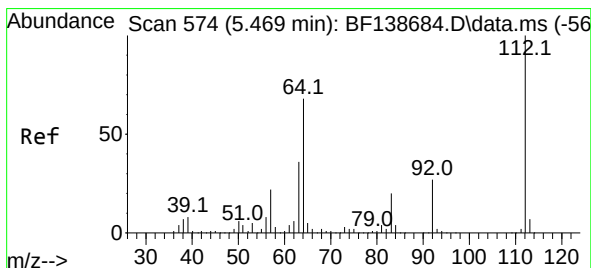
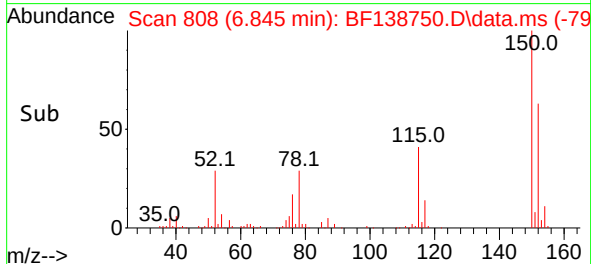
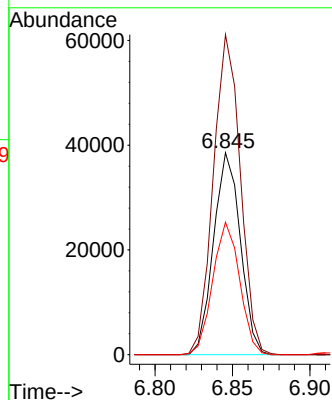
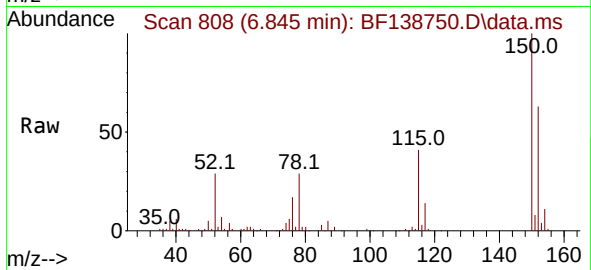




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.845 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: BF138750.D
 Acq: 02 Aug 2024 16:42

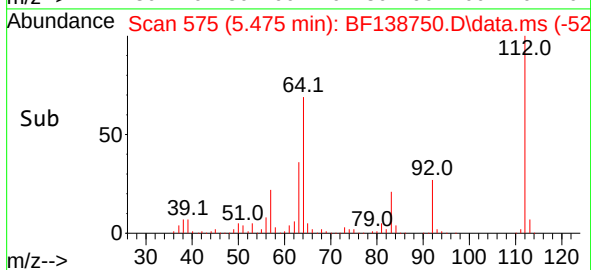
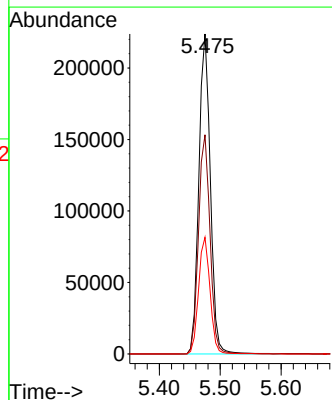
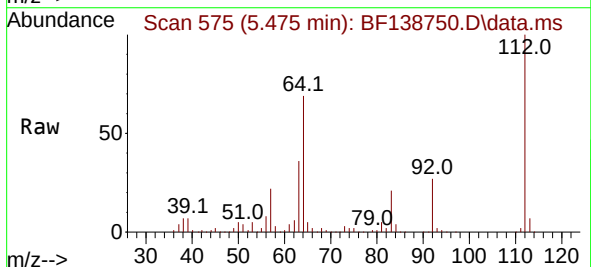
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07312024-B

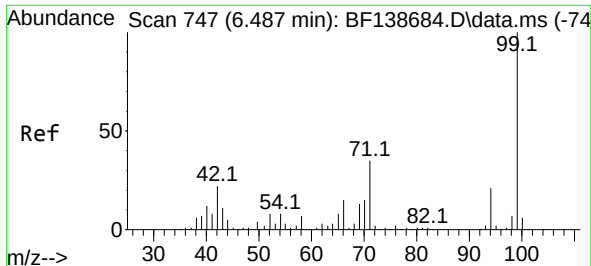
Tgt Ion:152 Resp: 46406
 Ion Ratio Lower Upper
 152 100
 150 158.5 126.0 189.0
 115 65.6 51.7 77.5



#5
 2-Fluorophenol
 Concen: 97.430 ng
 RT: 5.475 min Scan# 575
 Delta R.T. 0.006 min
 Lab File: BF138750.D
 Acq: 02 Aug 2024 16:42

Tgt Ion:112 Resp: 292898
 Ion Ratio Lower Upper
 112 100
 64 68.5 54.2 81.4
 63 36.4 28.7 43.1

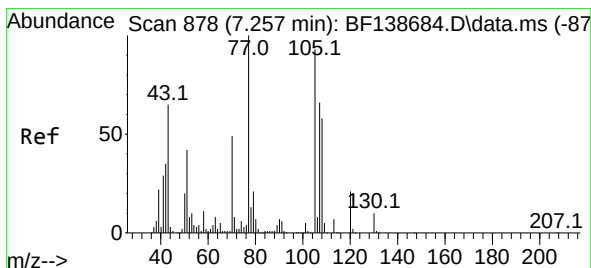
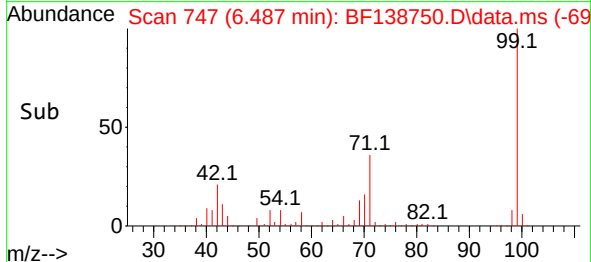
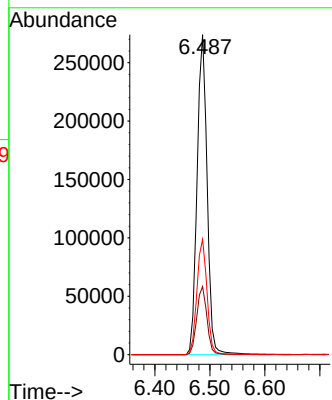
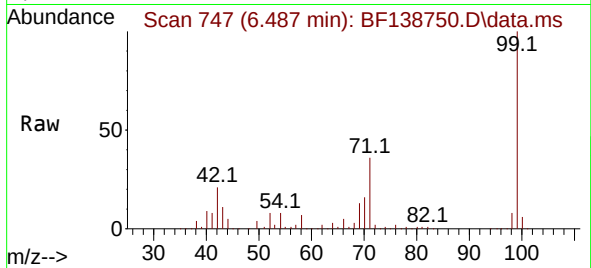




#7
Phenol-d6
Concen: 86.410 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

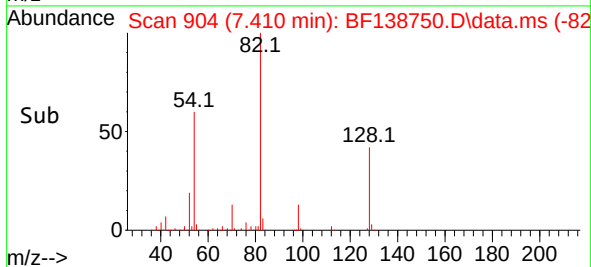
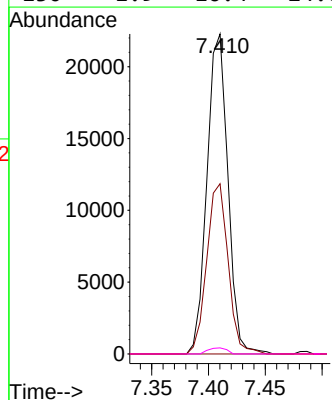
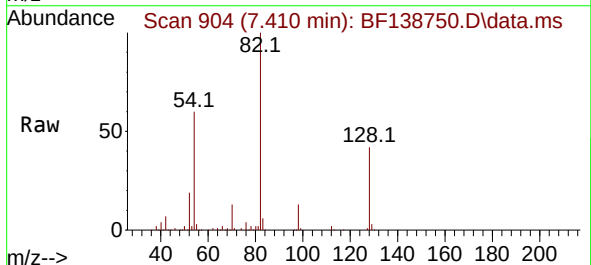
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B

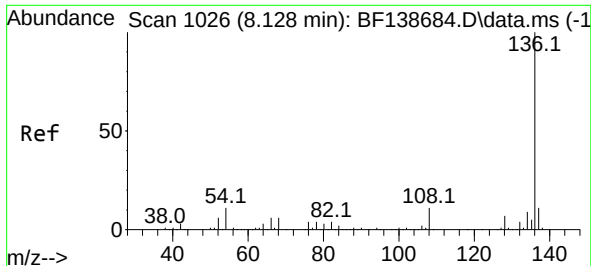
Tgt Ion: 99 Resp: 348769
Ion Ratio Lower Upper
99 100
42 21.3 17.4 26.0
71 36.1 28.1 42.1



#19
n-Nitroso-di-n-propylamine
Concen: 11.702 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.153 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

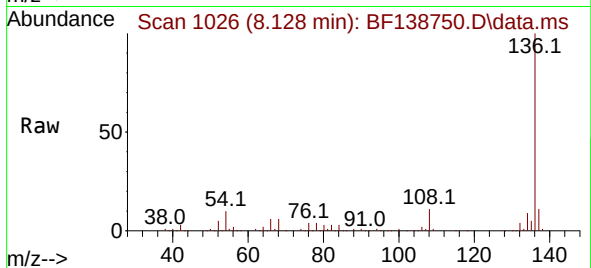
Tgt Ion: 70 Resp: 28527
Ion Ratio Lower Upper
70 100
42 53.2 57.4 86.0#
101 0.0 7.5 11.3#
130 1.9 16.4 24.6#



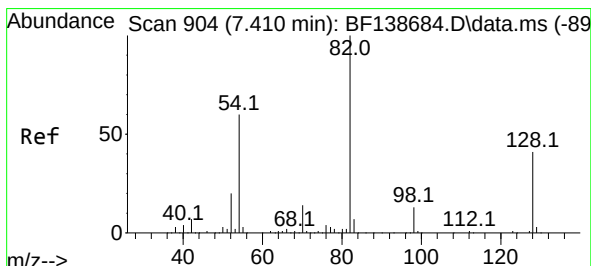
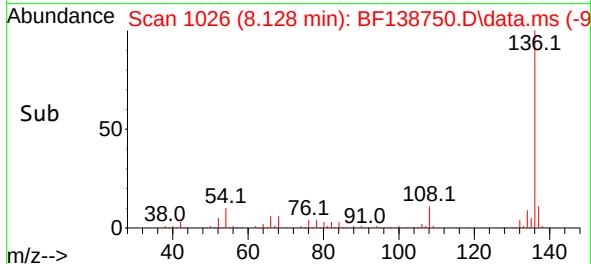
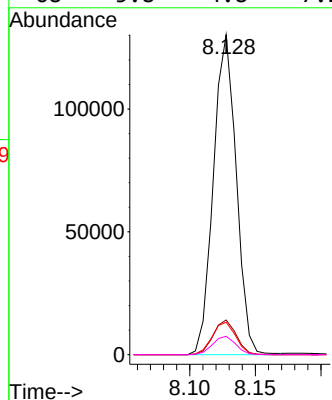


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B

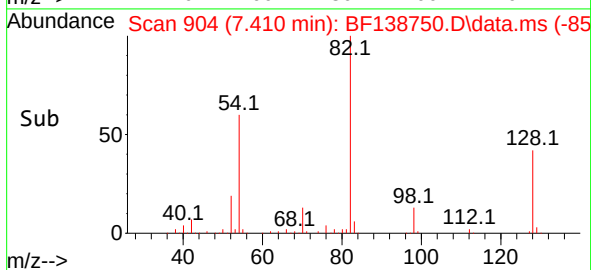
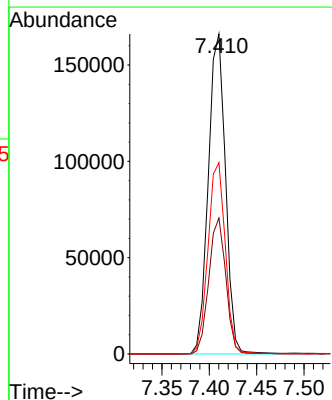
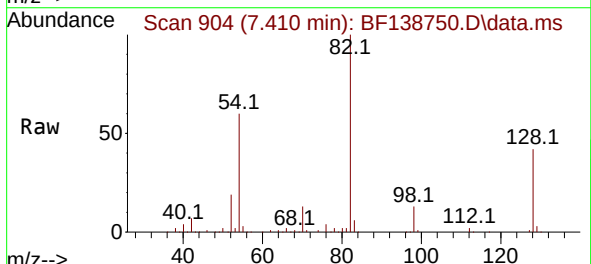


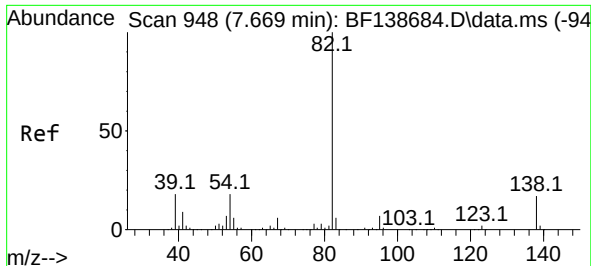
Tgt Ion:	136	Resp:	157893
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	10.1	8.6	12.8
68	5.8	4.8	7.2



#23
Nitrobenzene-d5
Concen: 65.044 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:	82	Resp:	210058
Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.8	49.2
54	59.8	48.3	72.5

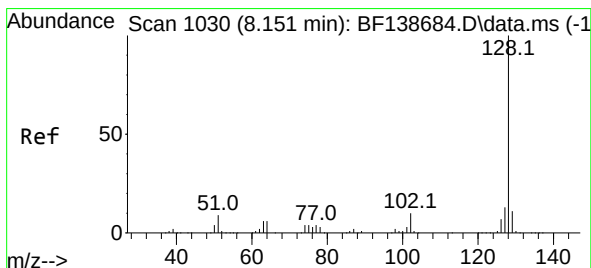
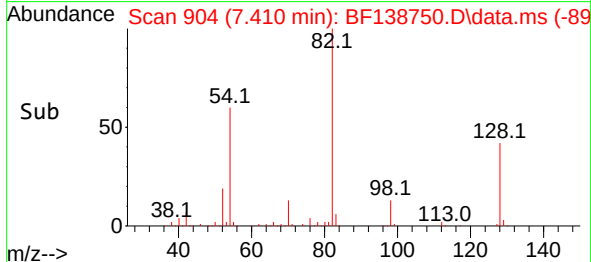
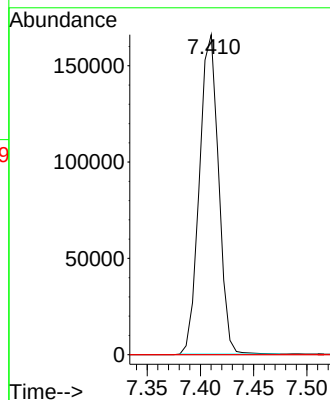
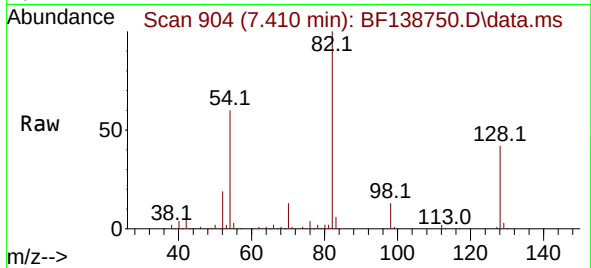




#25
Isophorone
Concen: 37.701 ng
RT: 7.410 min Scan# 90
Delta R.T. -0.259 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

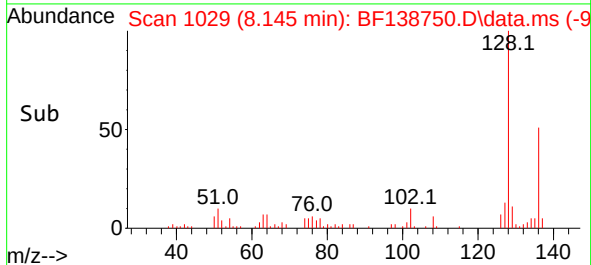
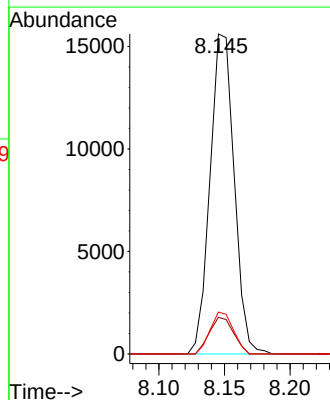
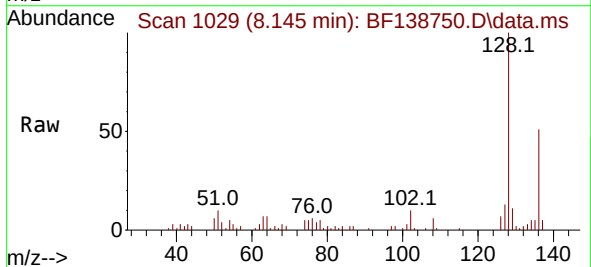
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B

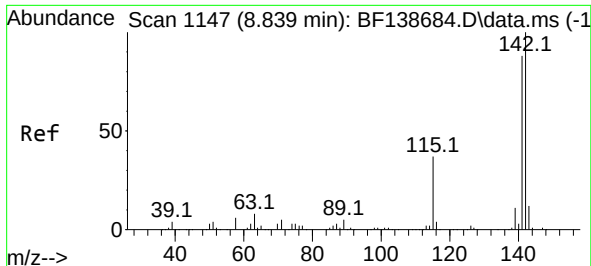
Tgt Ion: 82 Resp: 207900
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.7 20.5#



#31
Naphthalene
Concen: 2.405 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:128 Resp: 19988
Ion Ratio Lower Upper
128 100
129 11.4 8.7 13.1
127 13.1 10.6 16.0





#37

2-Methylnaphthalene

Concen: 2.947 ng

RT: 8.839 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

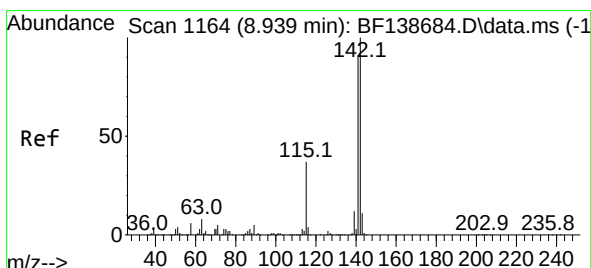
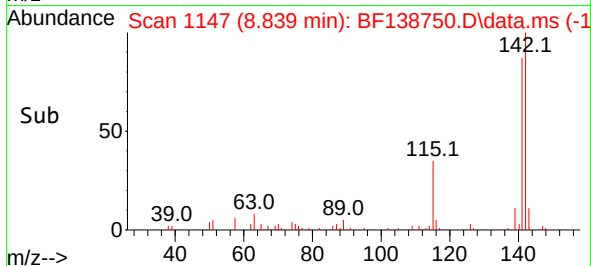
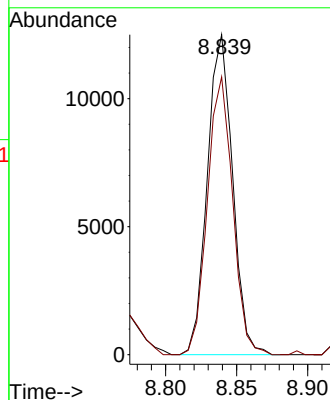
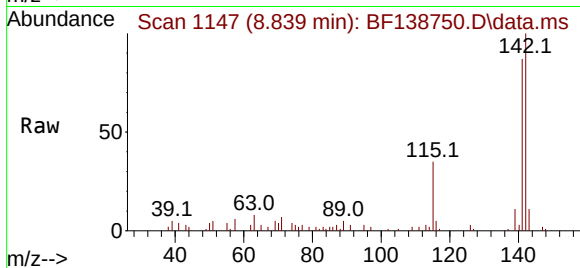
PL-02-07312024-B

Tgt Ion:142 Resp: 15466

Ion Ratio Lower Upper

142 100

141 86.8 70.8 106.2



#38

1-Methylnaphthalene

Concen: 3.377 ng

RT: 8.939 min Scan# 1164

Delta R.T. 0.000 min

Lab File: BF138750.D

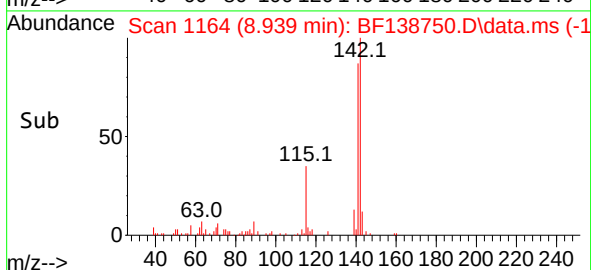
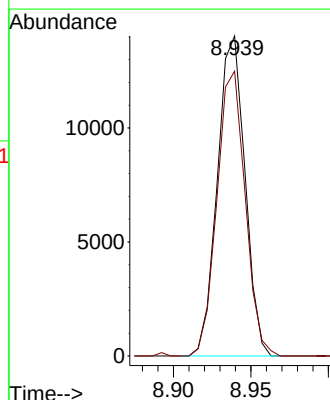
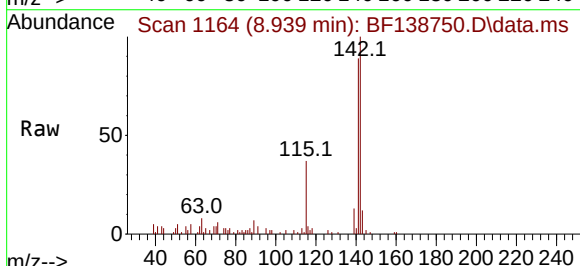
Acq: 02 Aug 2024 16:42

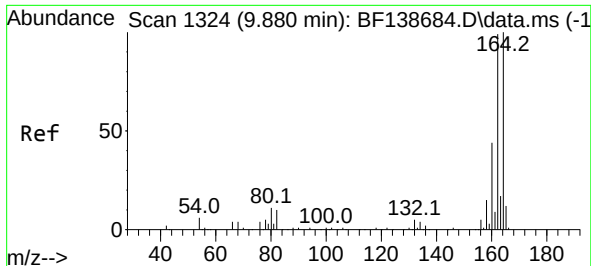
Tgt Ion:142 Resp: 17368

Ion Ratio Lower Upper

142 100

141 89.0 73.1 109.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.881 min Scan# 11

Delta R.T. 0.001 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

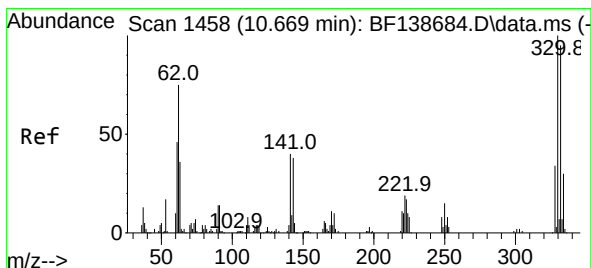
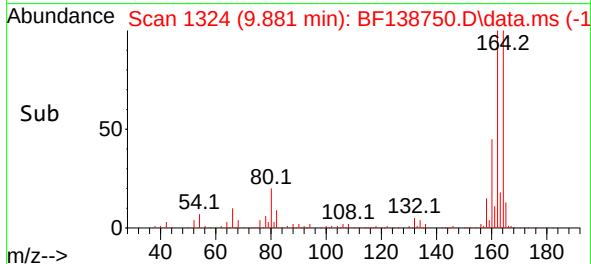
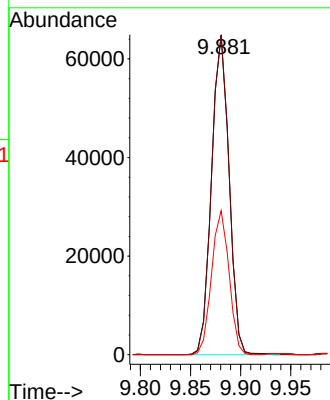
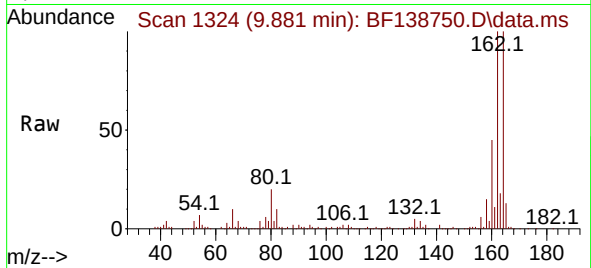
Tgt Ion:164 Resp: 78797

Ion Ratio Lower Upper

164 100

162 100.3 79.4 119.0

160 45.1 35.1 52.7



#42

2,4,6-Tribromophenol

Concen: 105.995 ng

RT: 10.675 min Scan# 1459

Delta R.T. 0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

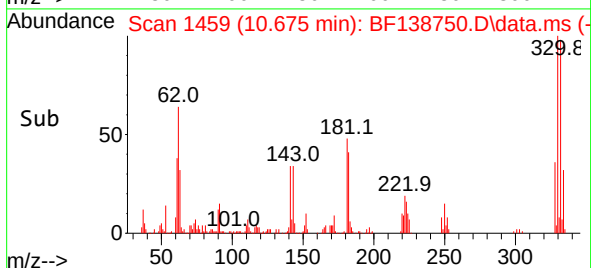
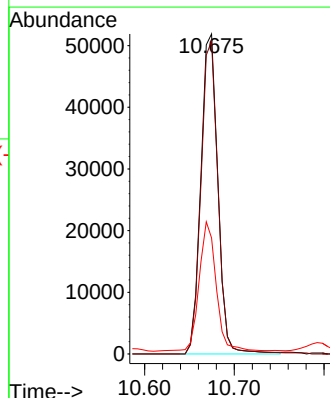
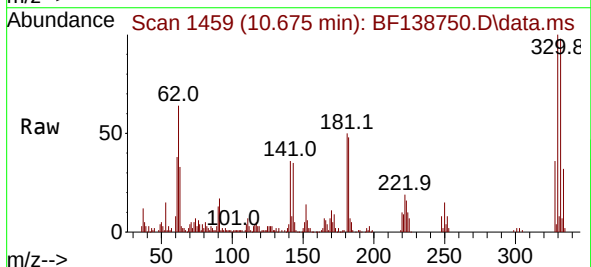
Tgt Ion:330 Resp: 68415

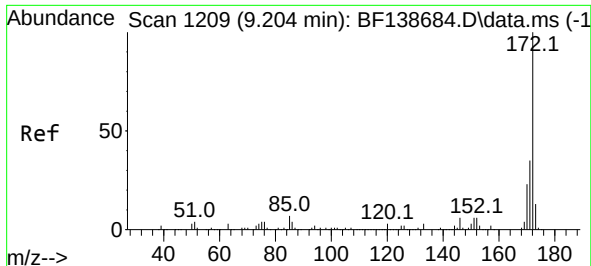
Ion Ratio Lower Upper

330 100

332 97.5 76.4 114.6

141 40.6 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 66.093 ng

RT: 9.198 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

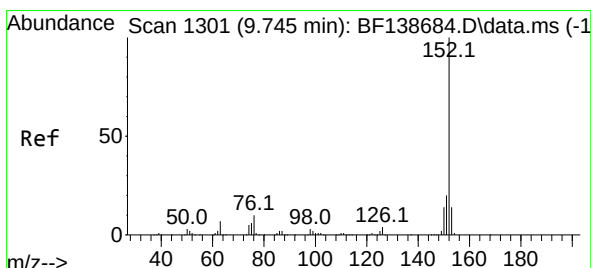
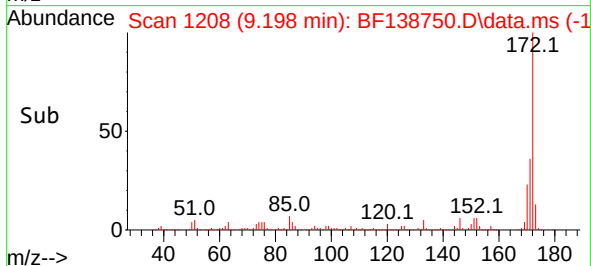
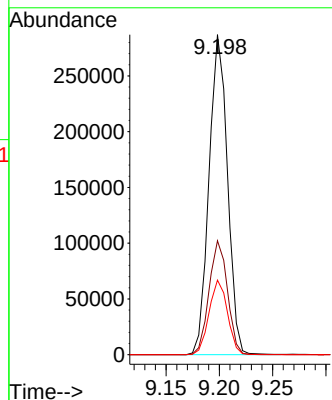
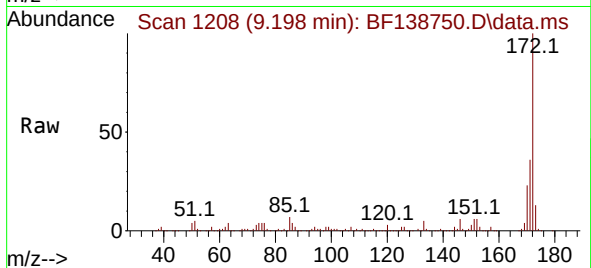
Tgt Ion:172 Resp: 346620

Ion Ratio Lower Upper

172 100

171 35.6 28.3 42.5

170 23.3 18.8 28.2



#49

Acenaphthylene

Concen: 12.215 ng

RT: 9.739 min Scan# 1300

Delta R.T. -0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

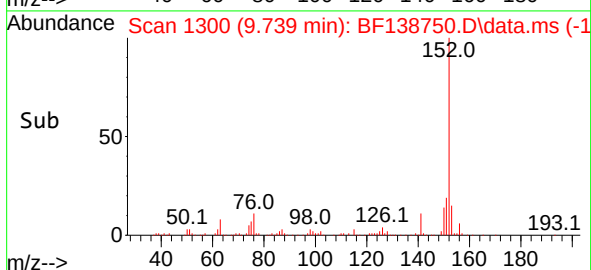
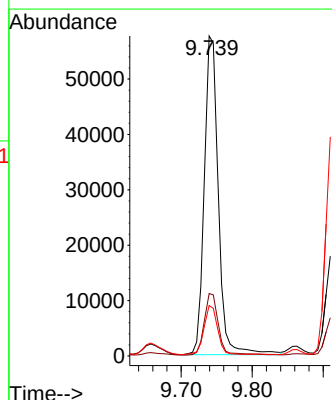
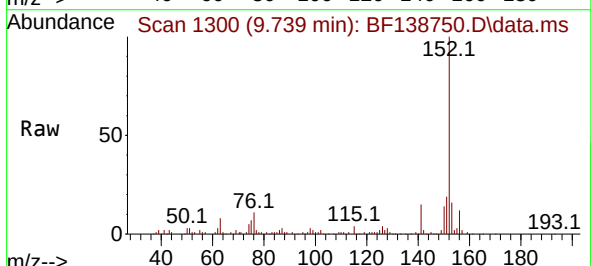
Tgt Ion:152 Resp: 79516

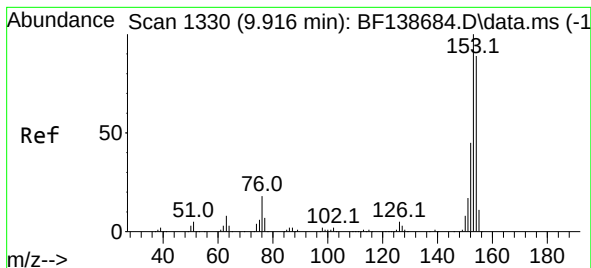
Ion Ratio Lower Upper

152 100

151 19.5 16.0 24.0

153 15.7 11.0 16.4





#52

Acenaphthene

Concen: 10.480 ng

RT: 9.910 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

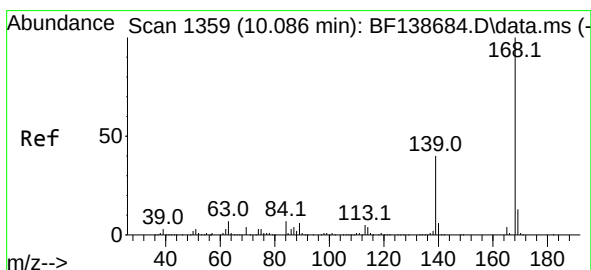
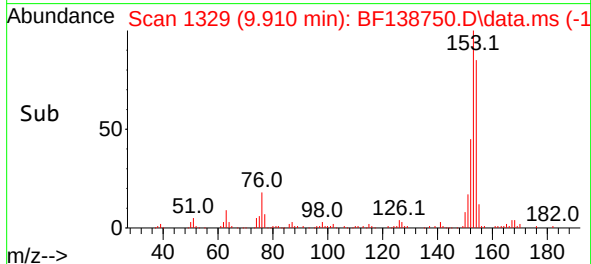
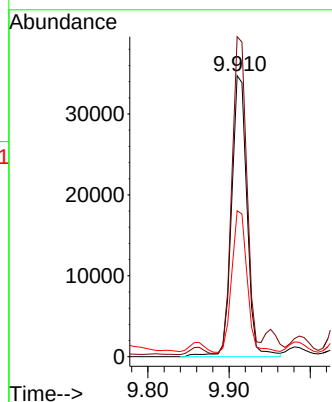
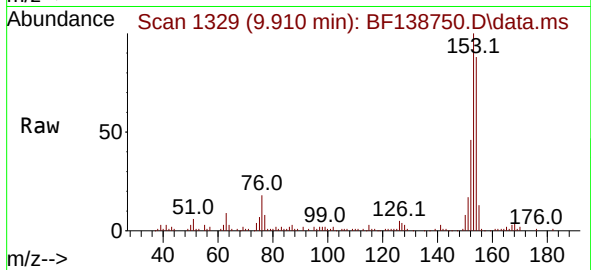
Tgt Ion:154 Resp: 45859

Ion Ratio Lower Upper

154 100

153 113.9 89.9 134.9

152 51.9 40.6 60.8



#55

Dibenzofuran

Concen: 10.550 ng

RT: 10.086 min Scan# 1359

Delta R.T. 0.000 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

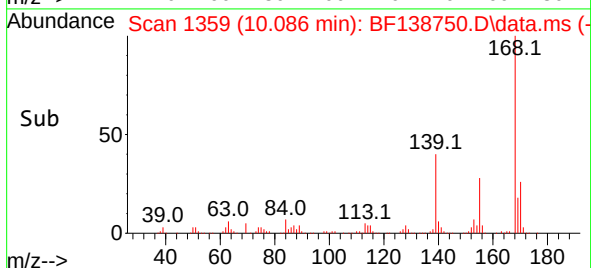
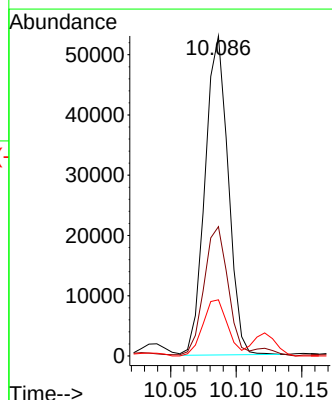
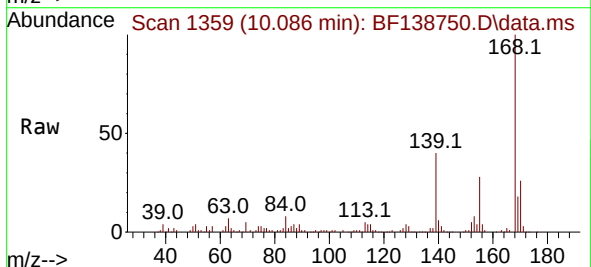
Tgt Ion:168 Resp: 65167

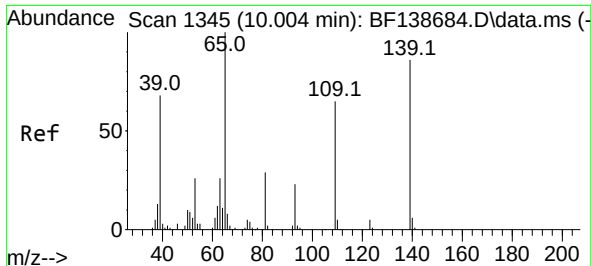
Ion Ratio Lower Upper

168 100

139 40.4 32.6 49.0

169 17.5 10.7 16.1#

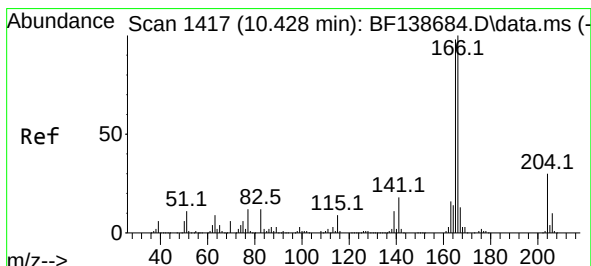
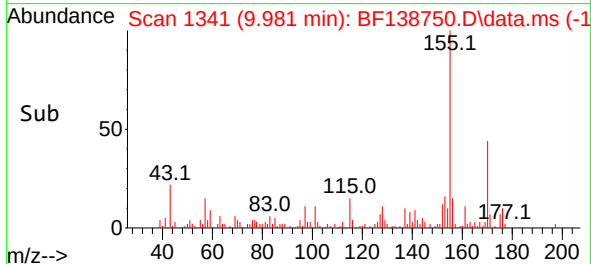
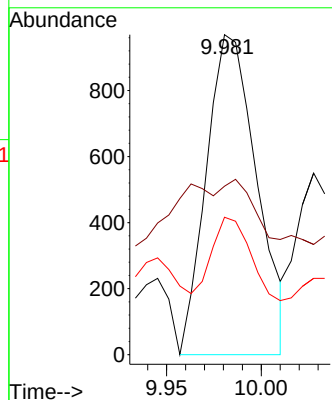
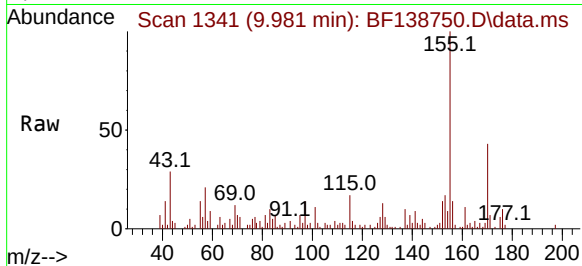




#56
4-Nitrophenol
Concen: 2.542 ng
RT: 9.981 min Scan# 1345
Delta R.T. -0.023 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

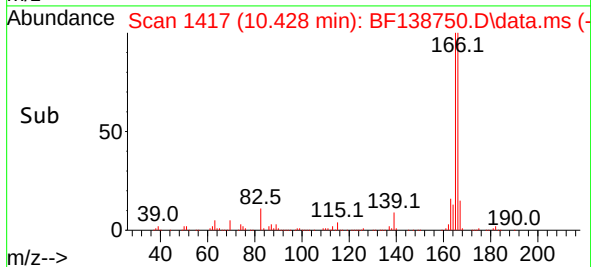
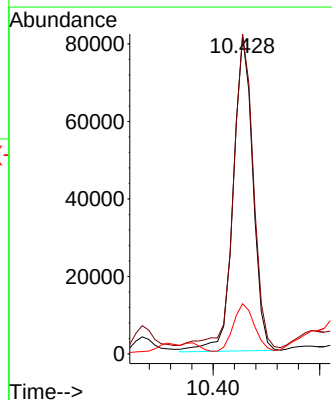
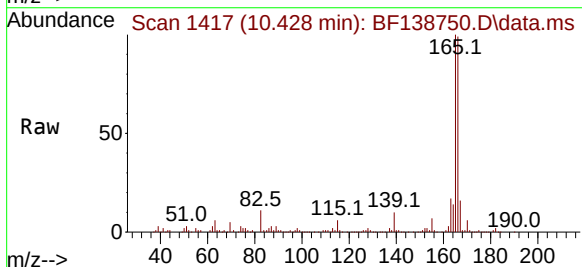
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B

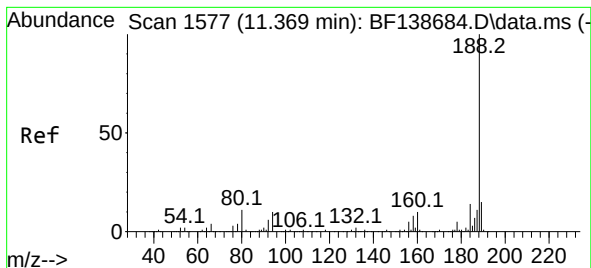
Tgt Ion:139 Resp: 1797
Ion Ratio Lower Upper
139 100
109 52.6 55.5 95.5#
65 42.9 96.7 136.7#



#58
Fluorene
Concen: 21.188 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:166 Resp: 104226
Ion Ratio Lower Upper
166 100
165 100.7 78.4 117.6
167 15.8 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.369 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

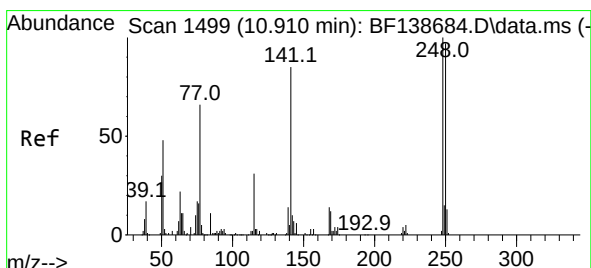
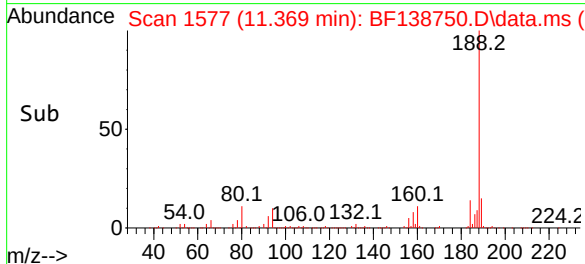
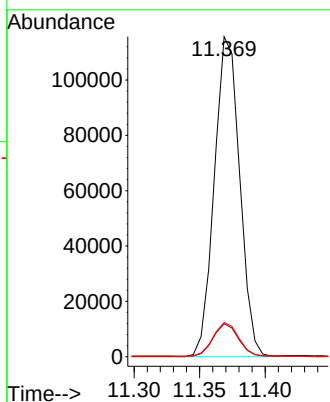
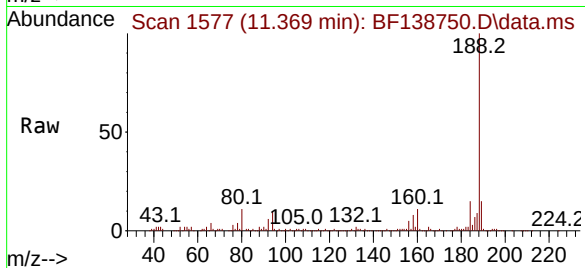
Tgt Ion:188 Resp: 155464

Ion Ratio Lower Upper

188 100

94 10.3 7.6 11.4

80 10.7 8.6 12.8



#67

4-Bromophenyl-phenylether

Concen: 3.138 ng

RT: 10.669 min Scan# 1458

Delta R.T. -0.241 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

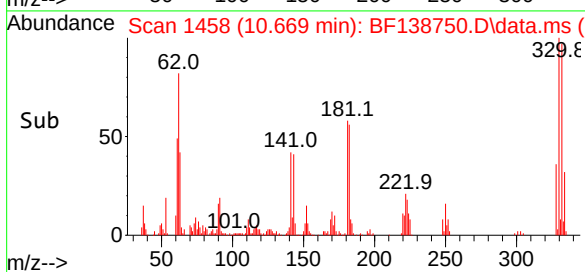
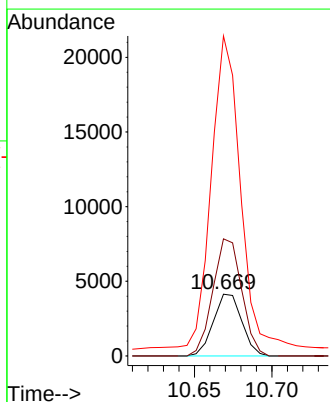
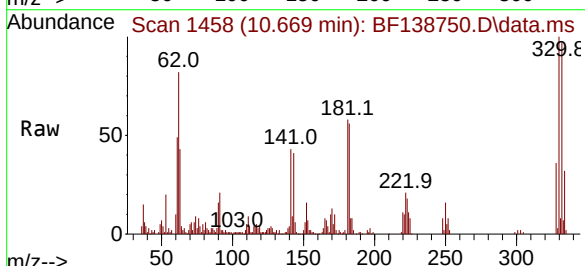
Tgt Ion:248 Resp: 5282

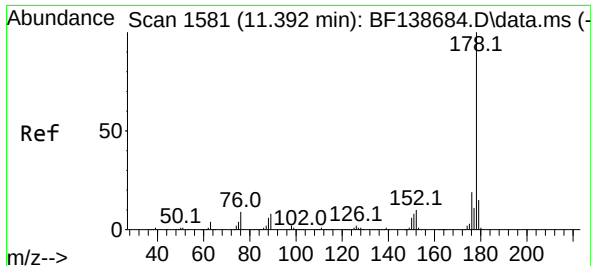
Ion Ratio Lower Upper

248 100

250 189.8 77.7 116.5#

141 518.6 68.0 102.0#

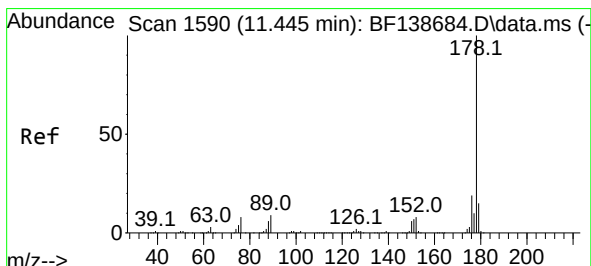
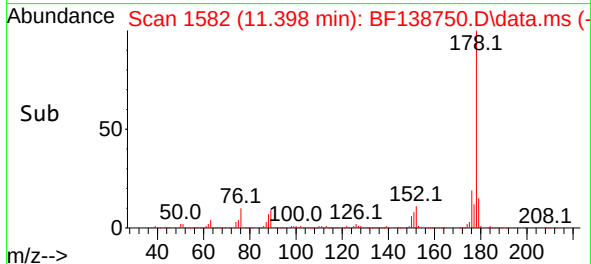
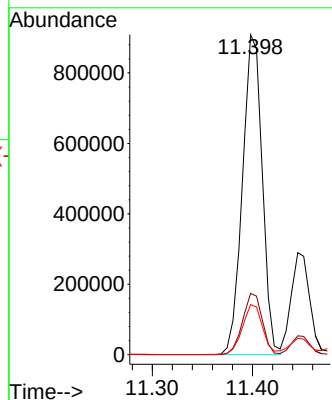
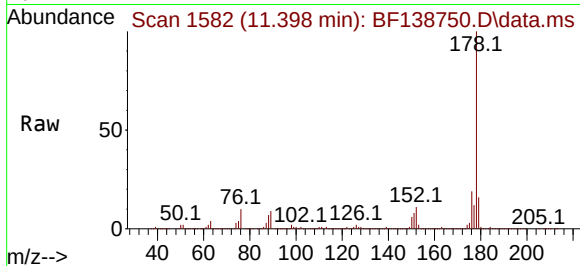




#71
Phenanthrene
Concen: 155.764 ng
RT: 11.398 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

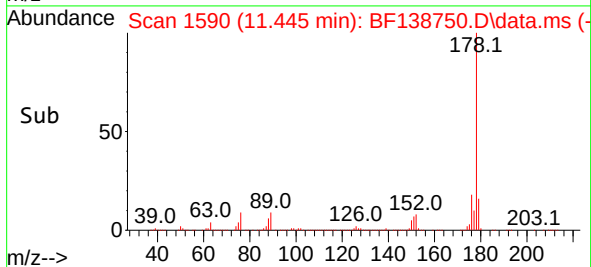
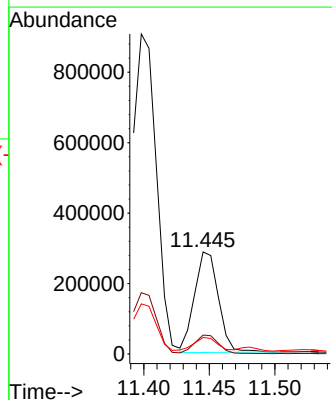
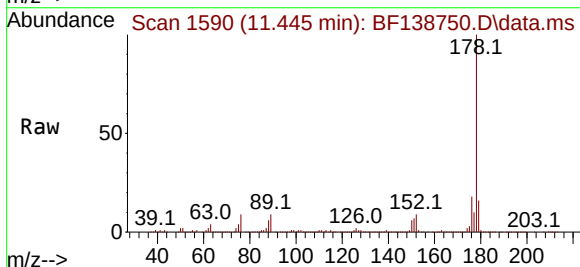
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B

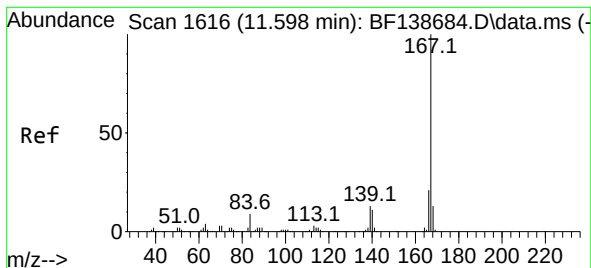
Tgt Ion:178 Resp: 1246914
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.7 12.2 18.2



#72
Anthracene
Concen: 46.243 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:178 Resp: 364679
Ion Ratio Lower Upper
178 100
176 18.4 14.9 22.3
179 16.1 12.4 18.6





#73

Carbazole

Concen: 6.143 ng

RT: 11.604 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

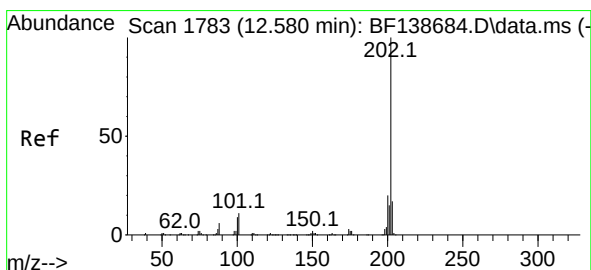
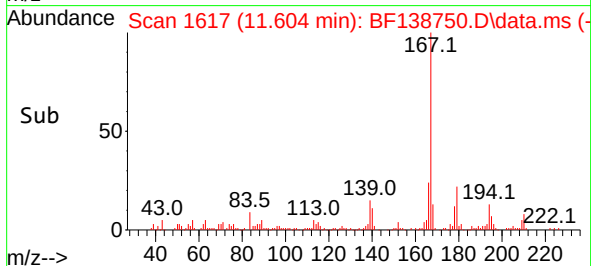
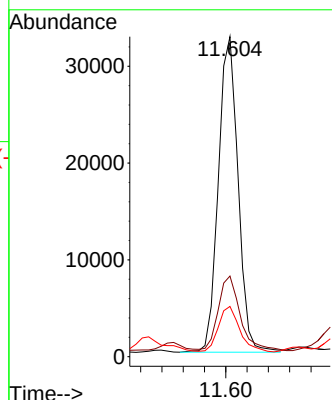
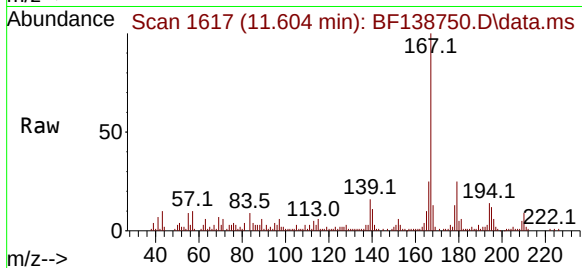
Tgt Ion:167 Resp: 41795

Ion Ratio Lower Upper

167 100

166 25.2 17.2 25.8

139 15.7 10.6 16.0



#75

Fluoranthene

Concen: 264.149 ng

RT: 12.598 min Scan# 1786

Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

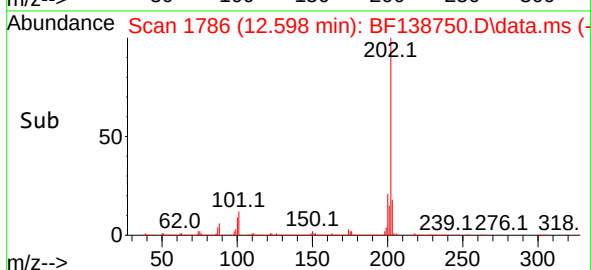
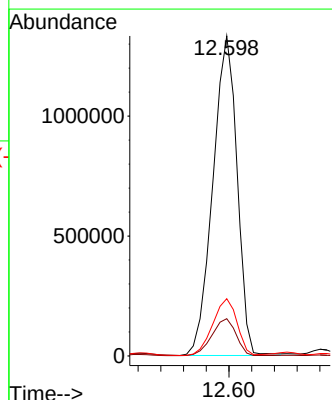
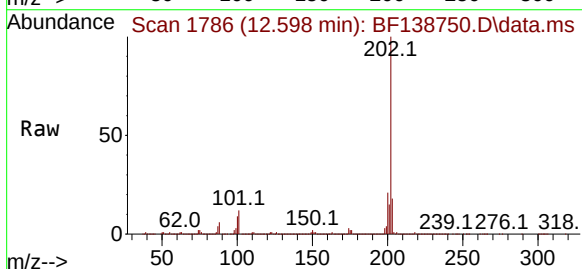
Tgt Ion:202 Resp: 1974060

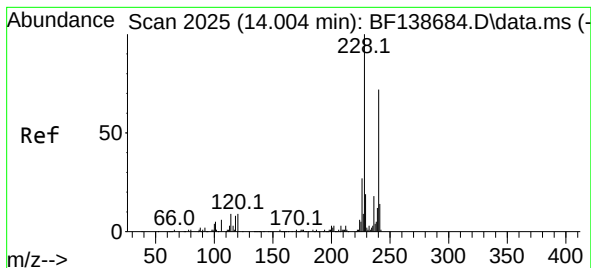
Ion Ratio Lower Upper

202 100

101 11.6 0.0 31.2

203 17.9 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.021 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

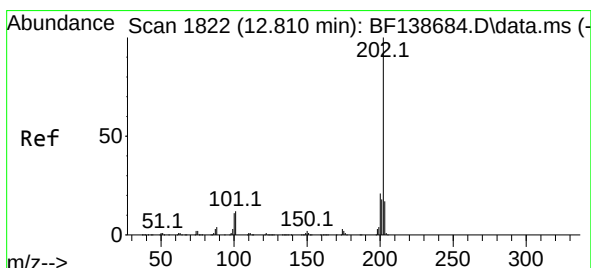
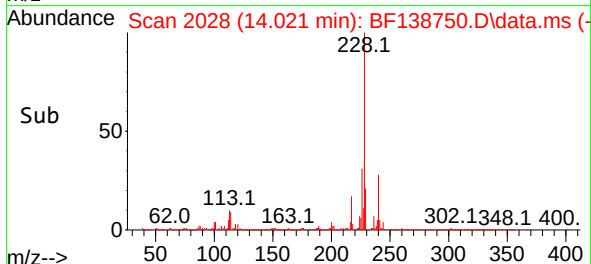
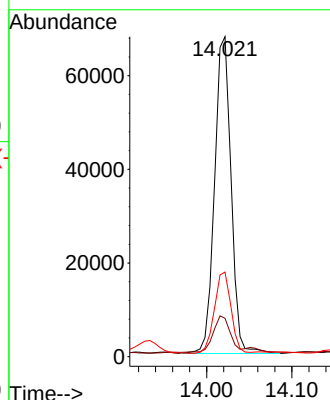
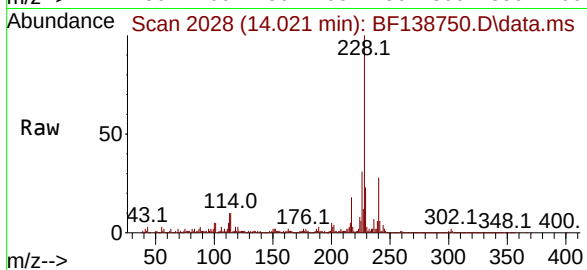
Tgt Ion:240 Resp: 91131

Ion Ratio Lower Upper

240 100

120 12.0 10.2 15.4

236 26.4 19.8 29.8



#78

Pyrene

Concen: 204.920 ng

RT: 12.827 min Scan# 1825

Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

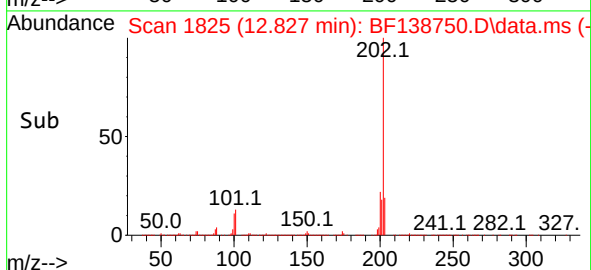
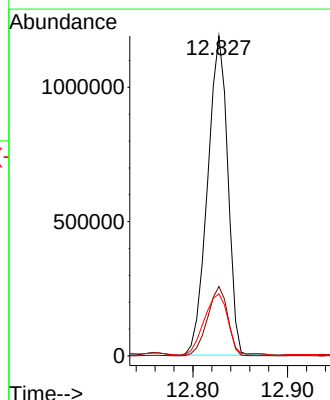
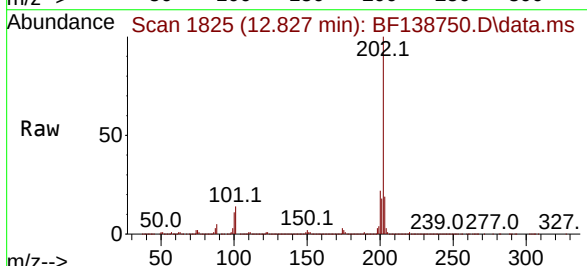
Tgt Ion:202 Resp: 1758267

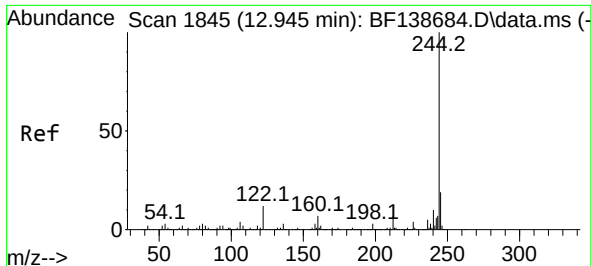
Ion Ratio Lower Upper

202 100

200 21.7 16.8 25.2

203 19.4 13.8 20.6

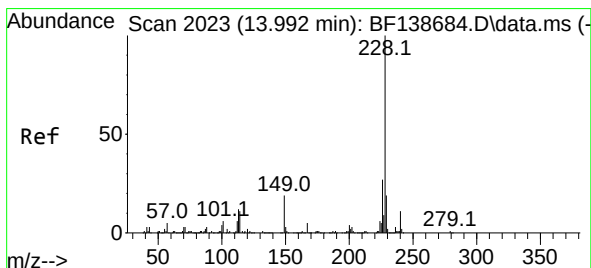
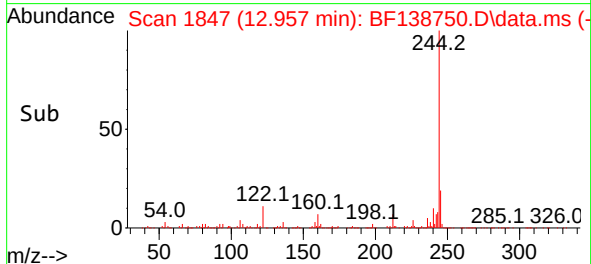
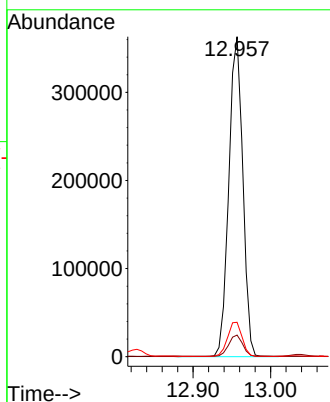
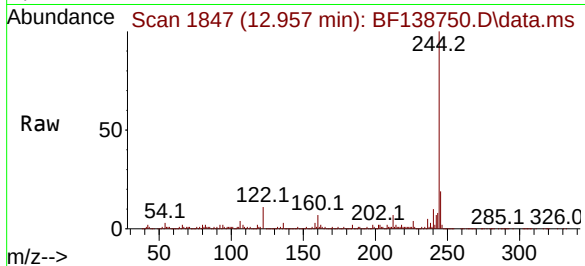




#79
 Terphenyl-d14
 Concen: 84.144 ng
 RT: 12.957 min Scan# 11
 Delta R.T. 0.012 min
 Lab File: BF138750.D
 Acq: 02 Aug 2024 16:42

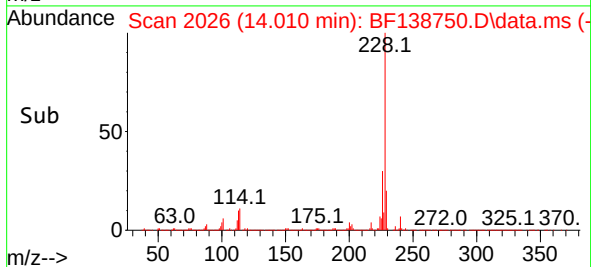
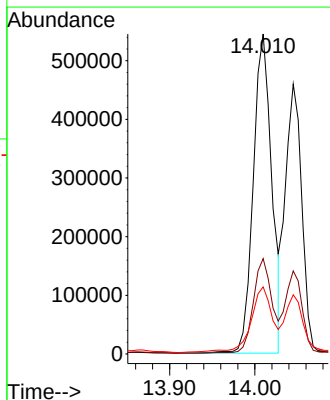
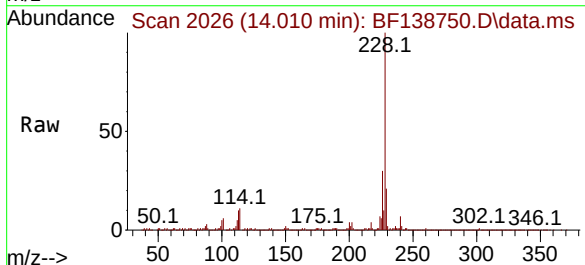
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07312024-B

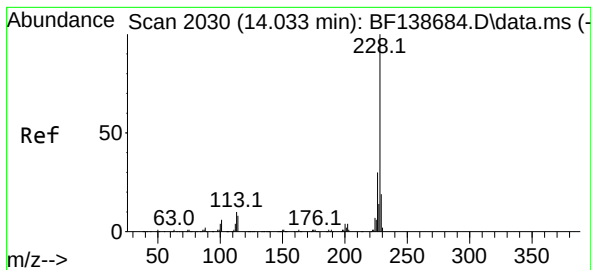
Tgt Ion:244 Resp: 457998
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.2
 122 10.7 9.6 14.4



#81
 Benzo(a)anthracene
 Concen: 130.894 ng
 RT: 14.010 min Scan# 2026
 Delta R.T. 0.018 min
 Lab File: BF138750.D
 Acq: 02 Aug 2024 16:42

Tgt Ion:228 Resp: 821421
 Ion Ratio Lower Upper
 228 100
 226 29.8 22.1 33.1
 229 20.9 15.4 23.0





#83

Chrysene

Concen: 106.976 ng

RT: 14.045 min Scan# 2030

Delta R.T. 0.012 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

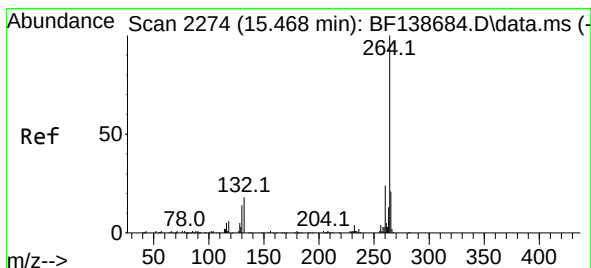
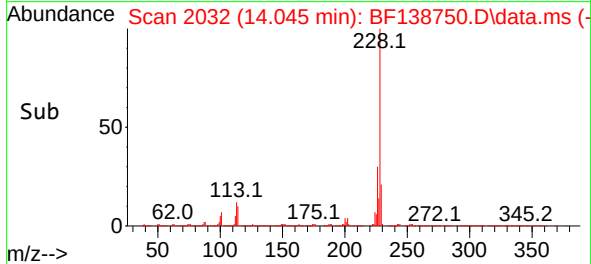
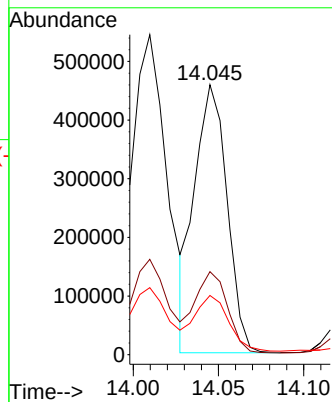
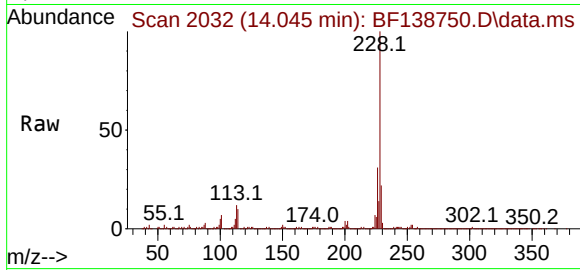
Tgt Ion:228 Resp: 605663

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 21.9 15.0 22.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.486 min Scan# 2277

Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

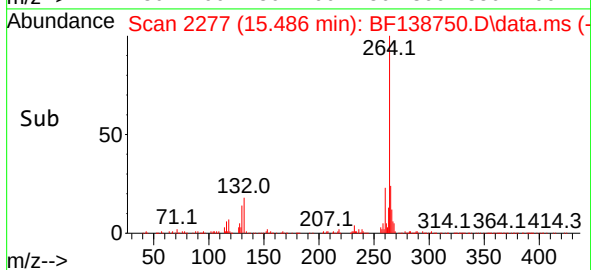
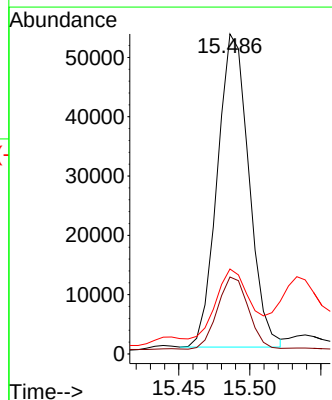
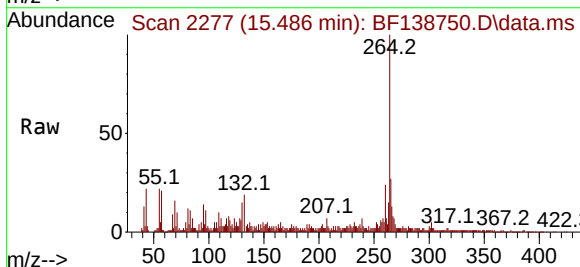
Tgt Ion:264 Resp: 81559

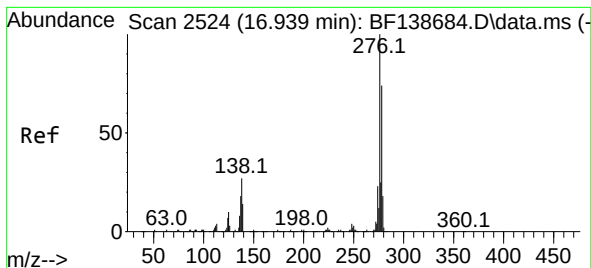
Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.6

265 26.5 17.0 25.6#





#87

Indeno(1,2,3-cd)pyrene

Concen: 43.144 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

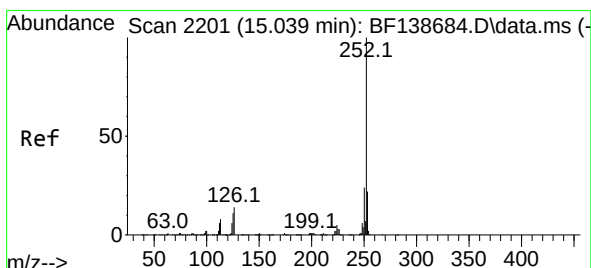
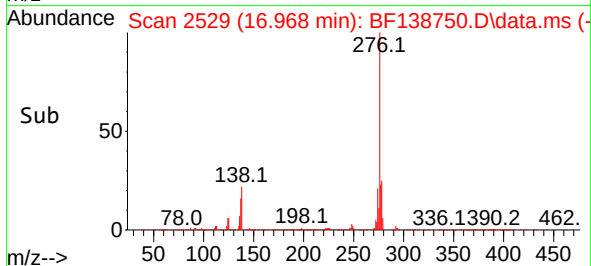
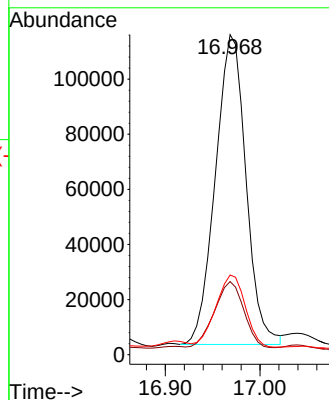
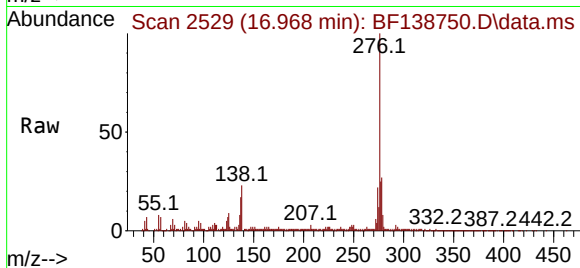
Tgt Ion:276 Resp: 252169

Ion Ratio Lower Upper

276 100

138 22.1 21.8 32.8

277 22.9 20.6 30.8



#88

Benzo(b)fluoranthene

Concen: 179.448 ng

RT: 15.068 min Scan# 2206

Delta R.T. 0.029 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

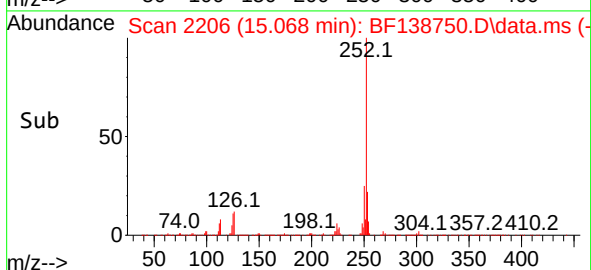
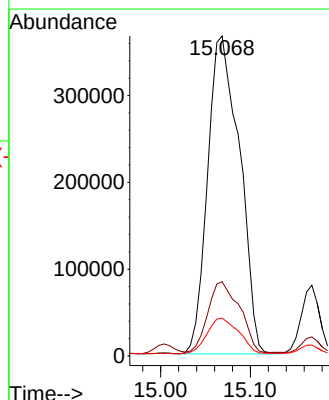
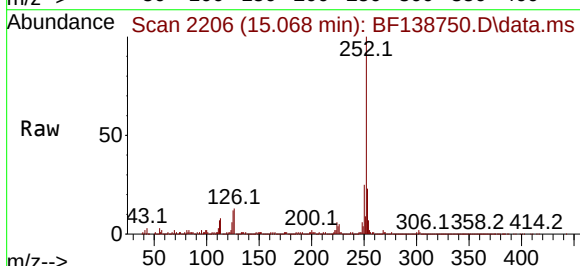
Tgt Ion:252 Resp: 907265

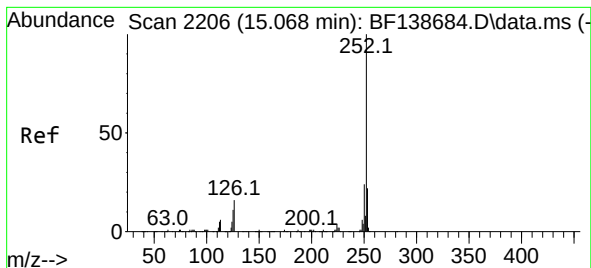
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 11.8 8.9 13.3





#89

Benzo(k)fluoranthene

Concen: 207.259 ng

RT: 15.068 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNF

ClientSampleId :

PL-02-07312024-B

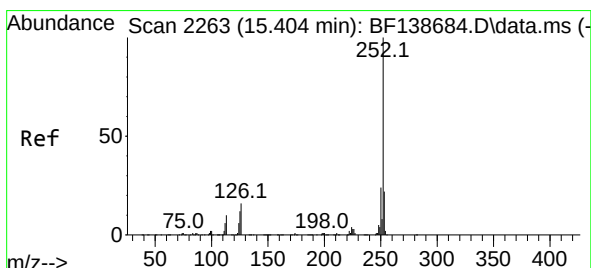
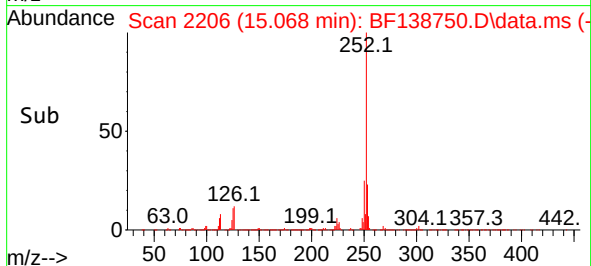
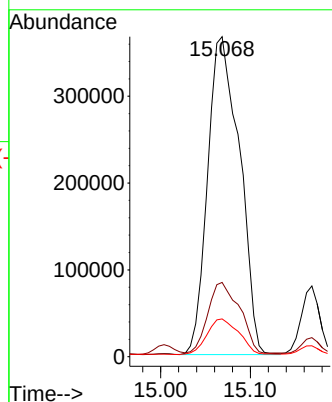
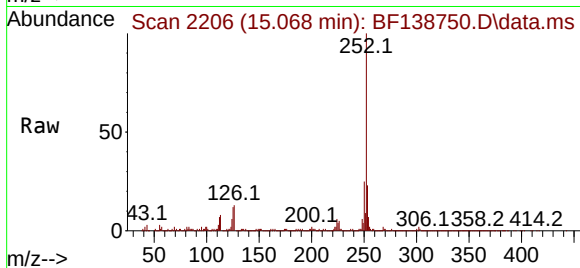
Tgt Ion:252 Resp: 907265

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 11.8 8.6 13.0



#90

Benzo(a)pyrene

Concen: 118.954 ng

RT: 15.433 min Scan# 2268

Delta R.T. 0.029 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

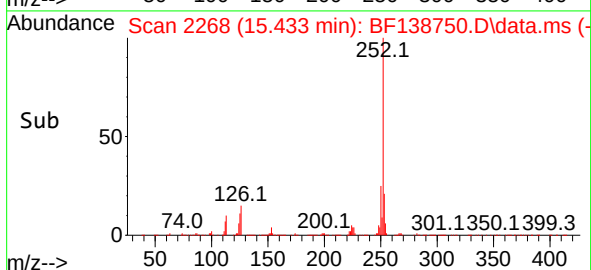
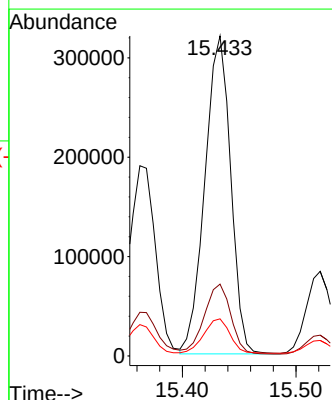
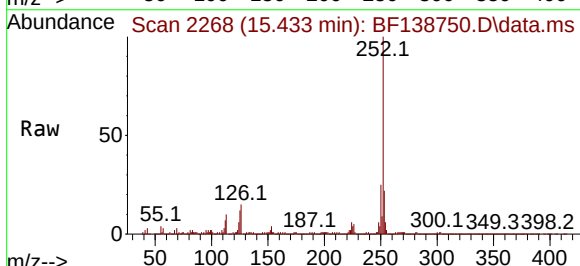
Tgt Ion:252 Resp: 505875

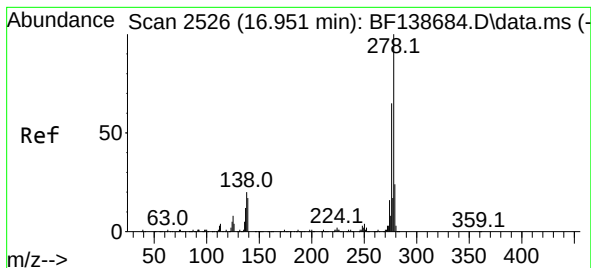
Ion Ratio Lower Upper

252 100

253 22.5 17.3 25.9

125 11.6 9.5 14.3





#91

Dibenzo(a,h)anthracene

Concen: 12.777 ng

RT: 16.974 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

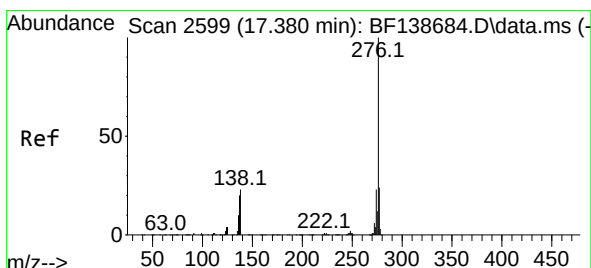
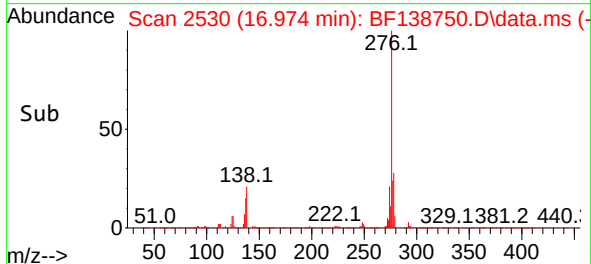
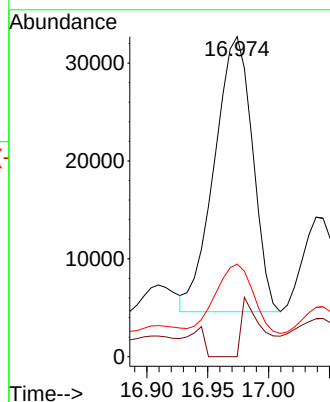
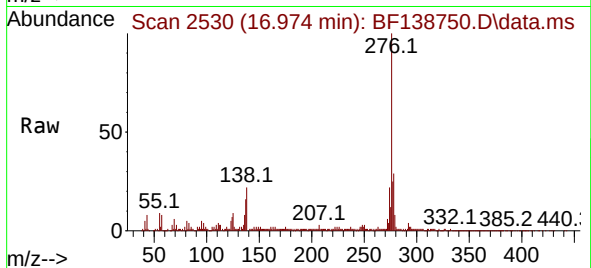
Tgt Ion:278 Resp: 61304

Ion Ratio Lower Upper

278 100

139 0.0 14.0 21.0#

279 29.0 19.0 28.4#



#92

Benzo(g,h,i)perylene

Concen: 45.961 ng

RT: 17.421 min Scan# 2606

Delta R.T. 0.041 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Tgt Ion:276 Resp: 228827

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.4

138 22.7 18.5 27.7

