

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051521\
 Data File : BF123954.D
 Acq On : 15 May 2021 19:58
 Operator : JU/CG
 Sample : M2383-06 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01-05112021

Quant Time: May 16 05:21:18 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 14 19:05:57 2021
 Response via : Initial Calibration

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

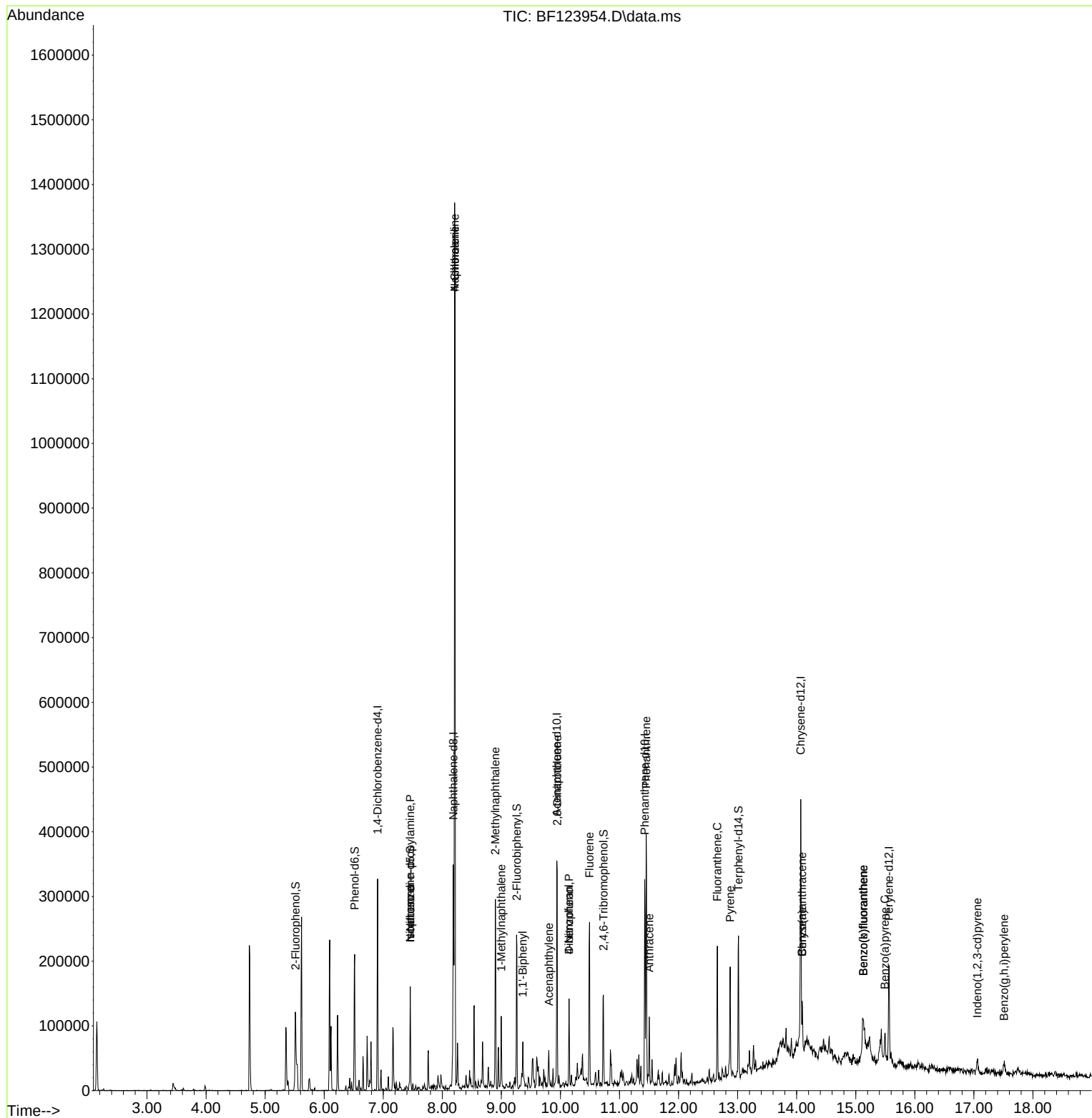
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	35355	20.00	ng	0.00
21) Naphthalene-d8	8.186	136	131626	20.00	ng	0.00
39) Acenaphthene-d10	9.939	164	65198	20.00	ng	0.00
64) Phenanthrene-d10	11.427	188	103823	20.00	ng	# 0.00
76) Chrysene-d12	14.068	240	90702	20.00	ng	# 0.00
86) Perylene-d12	15.562	264	57845	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	41908	16.64	ng	0.00
7) Phenol-d6	6.516	99	52065	15.94	ng	0.00
23) Nitrobenzene-d5	7.457	82	36896	12.08	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	11836	15.11	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	59882	11.30	ng	0.00
79) Terphenyl-d14	13.016	244	57168	9.55	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	5583	2.53	ng	# 87
25) Isophorone	7.457	82	36896	6.28	ng	# 69
31) Naphthalene	8.210	128	513552	65.93	ng	99
33) 4-Chloroaniline	8.210	127	73220	24.69	ng	# 37
37) 2-Methylnaphthalene	8.898	142	52462	9.94	ng	91
38) 1-Methylnaphthalene	8.998	142	21989	4.46	ng	96
46) 1,1'-Biphenyl	9.363	154	14793	2.58	ng	95
49) Acenaphthylene	9.804	152	15473	2.30	ng	# 90
51) 2,6-Dinitrotoluene	9.945	165	9020	8.57	ng	# 12
55) Dibenzofuran	10.145	168	37152	5.61	ng	98
56) 4-Nitrophenol	10.145	139	15443	17.84	ng	# 1
58) Fluorene	10.492	166	57307	11.48	ng	95
71) Phenanthrene	11.451	178	127631	19.40	ng	97
72) Anthracene	11.504	178	34544	5.18	ng	96
75) Fluoranthene	12.657	202	66312	9.73	ng	98
78) Pyrene	12.874	202	58660	7.28	ng	98
81) Benzo(a)anthracene	14.092	228	23097	3.52	ng	97
83) Chrysene	14.092	228	23097	3.66	ng	94
87) Indeno(1,2,3-cd)pyrene	17.057	276	10457	2.34	ng	# 92
88) Benzo(b)fluoranthene	15.127	252	30262	6.76	ng	# 92
89) Benzo(k)fluoranthene	15.127	252	30262	7.42	ng	# 92
90) Benzo(a)pyrene	15.492	252	15053	3.89	ng	# 77
92) Benzo(g,h,i)perylene	17.509	276	13592	3.60	ng	# 93

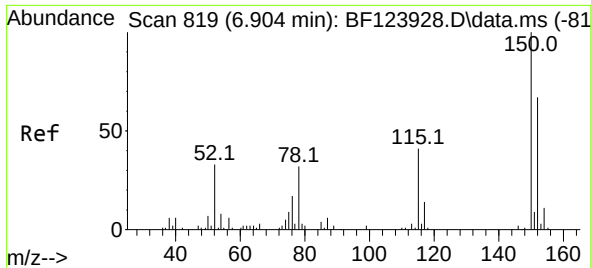
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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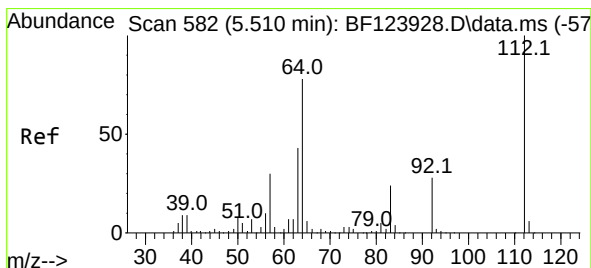
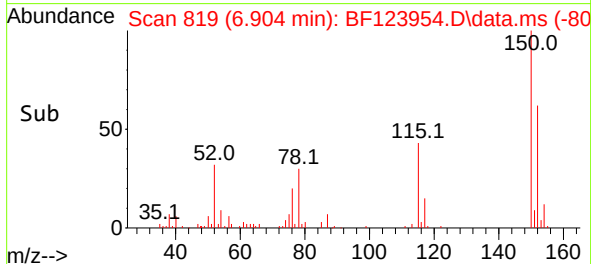
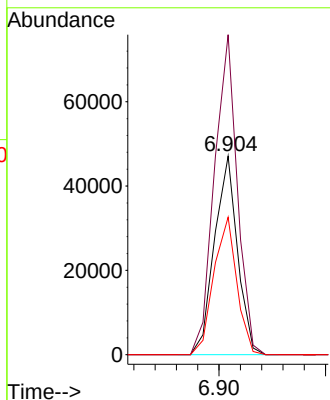
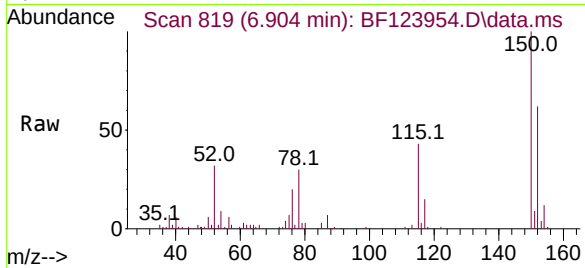




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.904 min Scan# 819
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

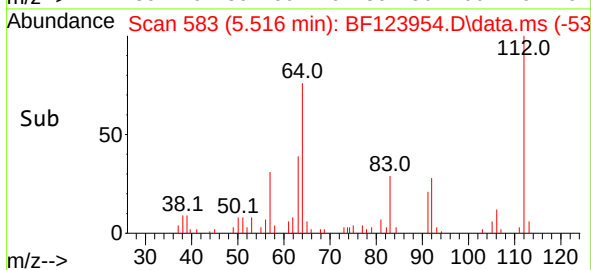
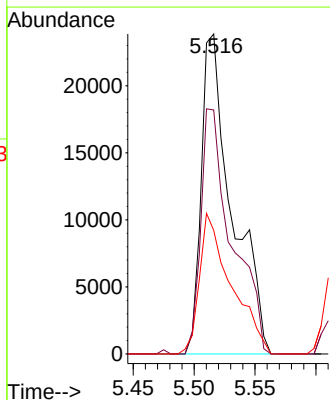
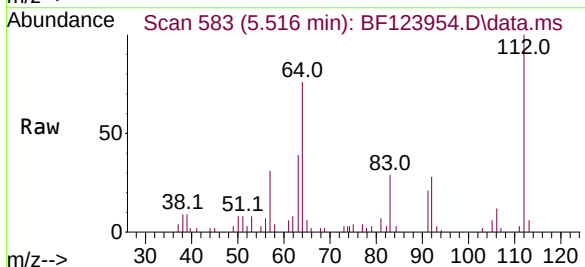
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

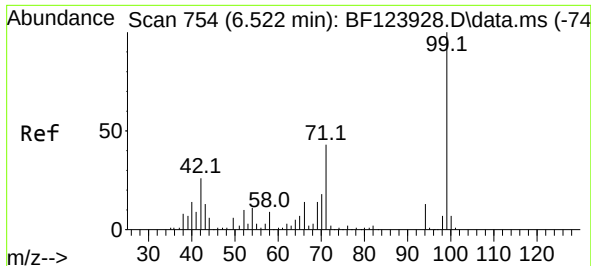
Tgt Ion:152 Resp: 35355
Ion Ratio Lower Upper
152 100
150 161.2 127.0 190.6
115 69.2 54.3 81.5



#5
2-Fluorophenol
Concen: 16.64 ng
RT: 5.516 min Scan# 583
Delta R.T. 0.006 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:112 Resp: 41908
Ion Ratio Lower Upper
112 100
64 76.2 61.4 92.0
63 38.6 33.0 49.4

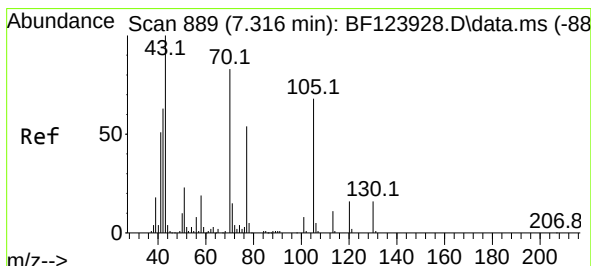
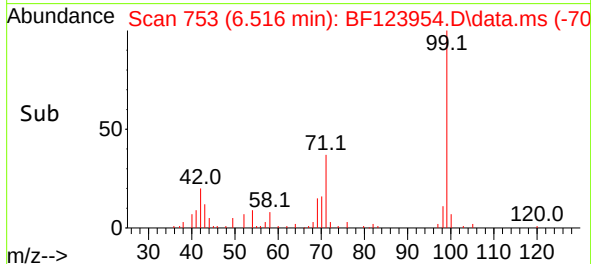
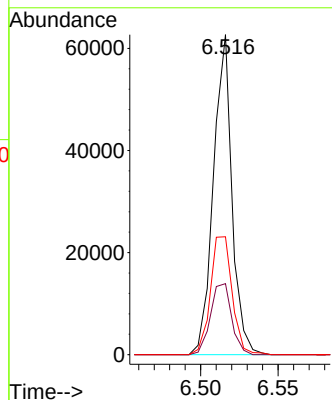
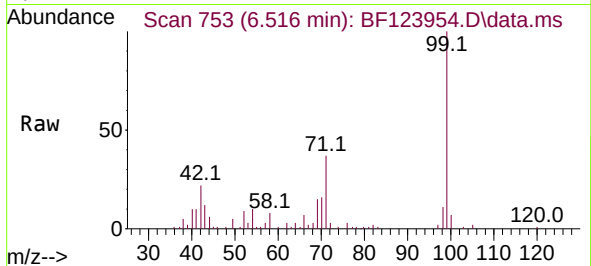




#7
Phenol-d6
Concen: 15.94 ng
RT: 6.516 min Scan# 753
Delta R.T. -0.006 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

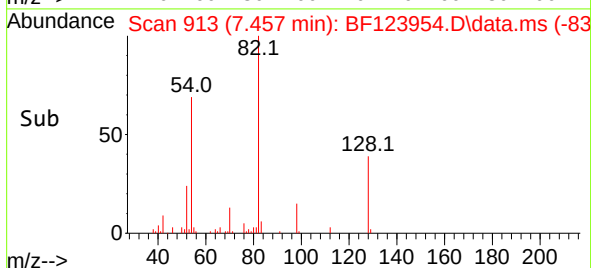
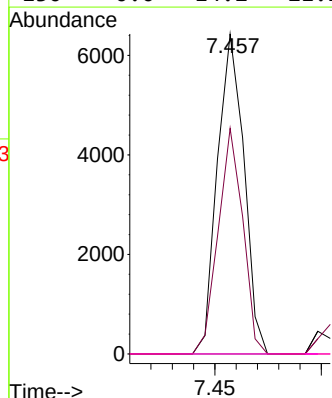
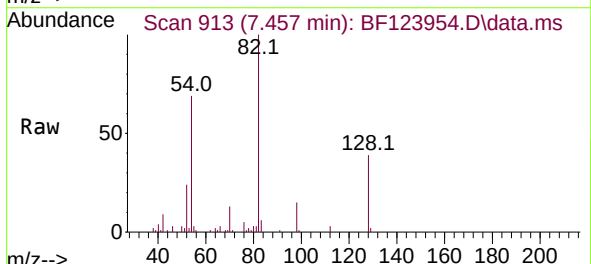
Instrument :
BNA_F
ClientSampleId :
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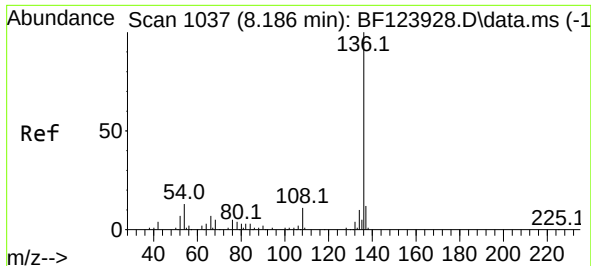
Tgt Ion:	99	Resp:	52065
Ion Ratio	Lower	Upper	
99	100		
42	22.2	19.8	29.8
71	36.8	31.1	46.7



#19
n-Nitroso-di-n-propylamine
Concen: 2.53 ng
RT: 7.457 min Scan# 913
Delta R.T. 0.141 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:	70	Resp:	5583
Ion Ratio	Lower	Upper	
70	100		
42	70.5	60.1	90.1
101	0.0	7.4	11.2#
130	0.0	14.2	21.2#

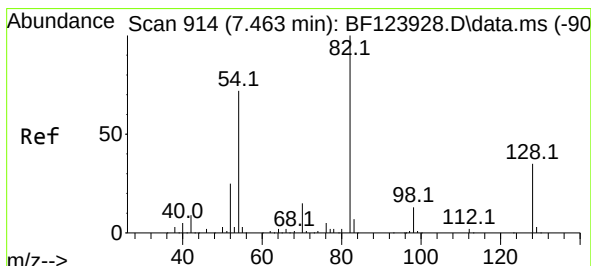
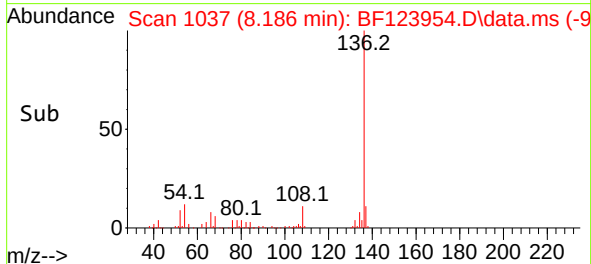
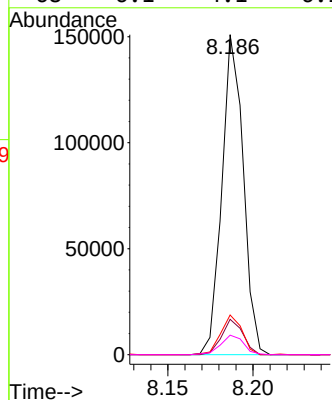
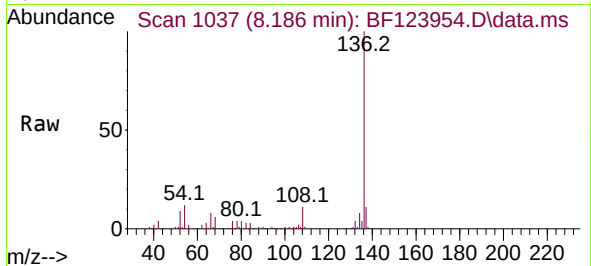




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.186 min Scan# 1037
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

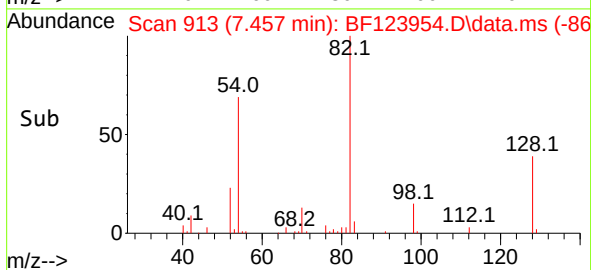
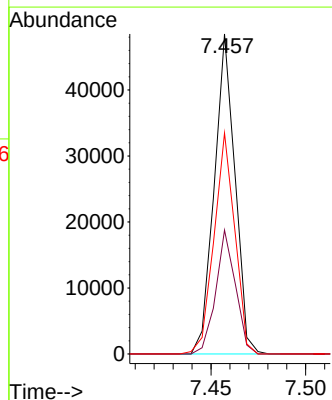
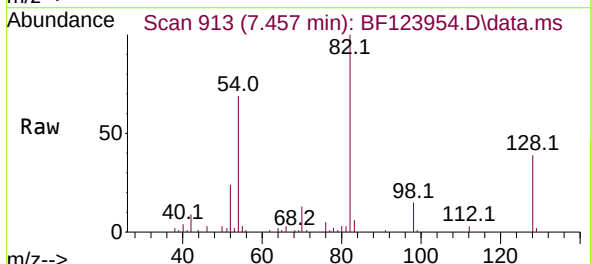
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

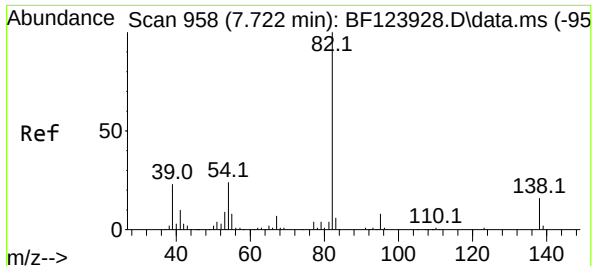
Tgt Ion:	136	Resp:	131626
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.7	13.1
54	12.4	9.8	14.6
68	6.1	4.1	6.1



#23
Nitrobenzene-d5
Concen: 12.08 ng
RT: 7.457 min Scan# 913
Delta R.T. -0.006 min
Lab File: BF123954.D
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Tgt Ion:	82	Resp:	36896
Ion Ratio	Lower	Upper	
82	100		
128	38.7	29.4	44.2
54	69.0	54.1	81.1

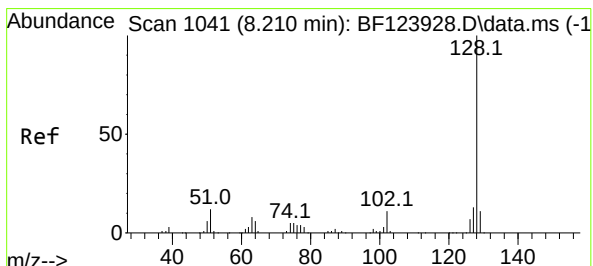
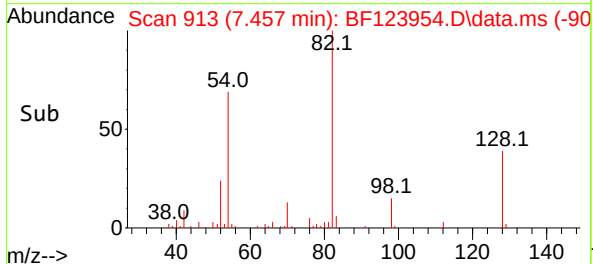
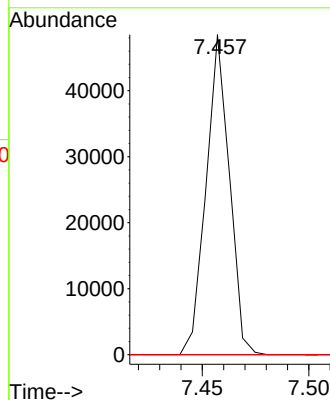
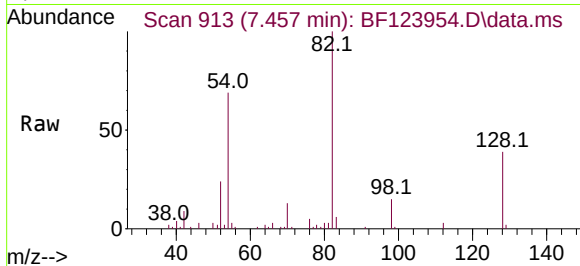




#25
Isophorone
Concen: 6.28 ng
RT: 7.457 min Scan# 913
Delta R.T. -0.265 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

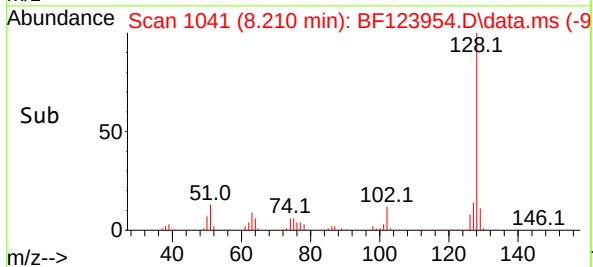
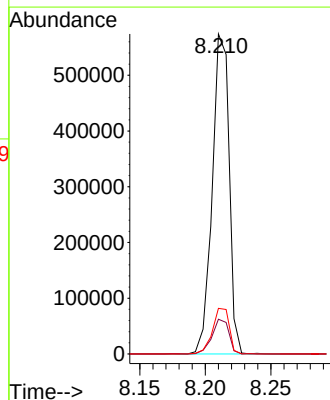
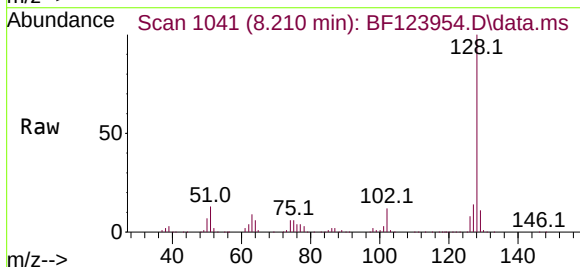
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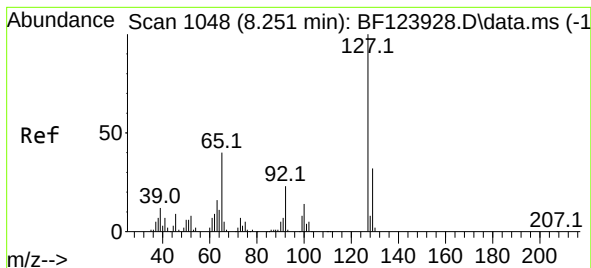
Tgt Ion: 82 Resp: 36896
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.6#
138 0.0 11.8 17.8#



#31
Naphthalene
Concen: 65.93 ng
RT: 8.210 min Scan# 1041
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion: 128 Resp: 513552
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 14.3 10.8 16.2

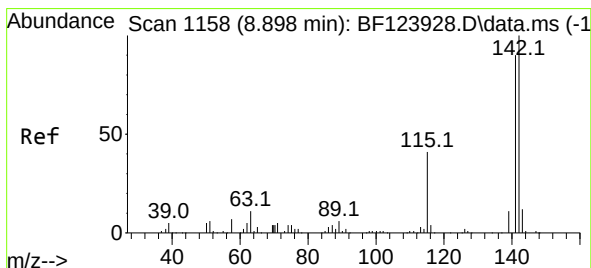
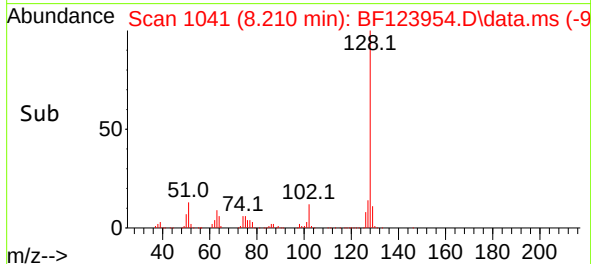
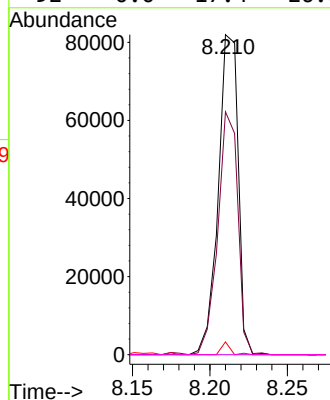
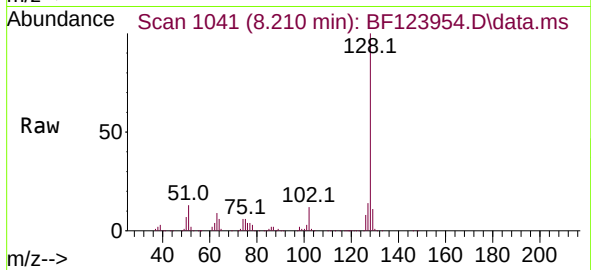




#33
4-Chloroaniline
Concen: 24.69 ng
RT: 8.210 min Scan# 1041
Delta R.T. -0.041 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

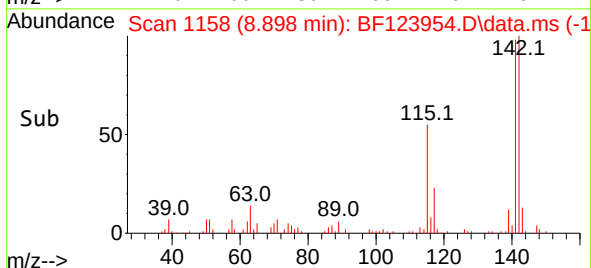
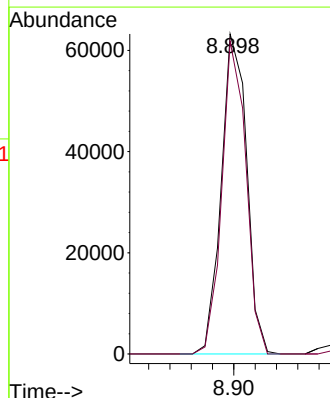
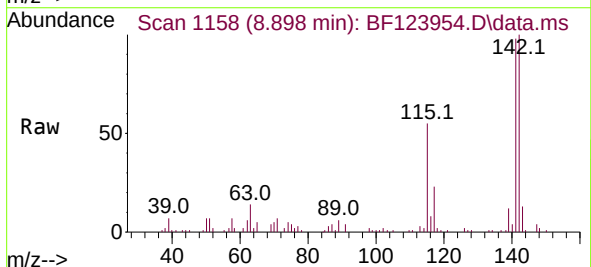
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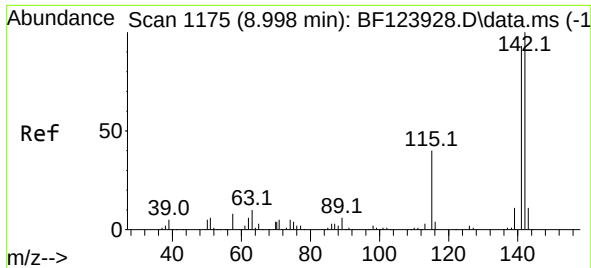
Tgt Ion:127	Resp:	73220
Ion Ratio	Lower	Upper
127	100	
129	75.9	25.7 38.5#
65	4.0	34.5 51.7#
92	0.0	17.4 26.0#



#37
2-Methylnaphthalene
Concen: 9.94 ng
RT: 8.898 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:142	Resp:	52462
Ion Ratio	Lower	Upper
142	100	
141	97.7	71.8 107.6

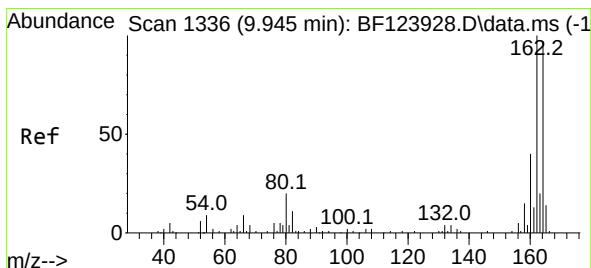
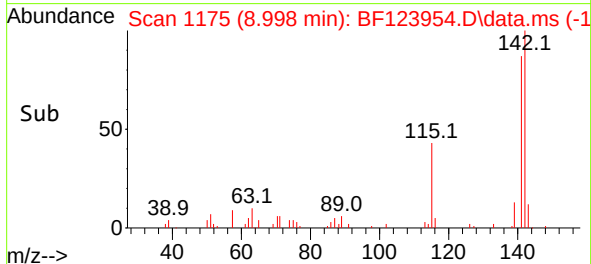
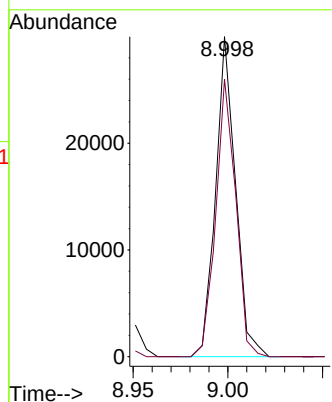
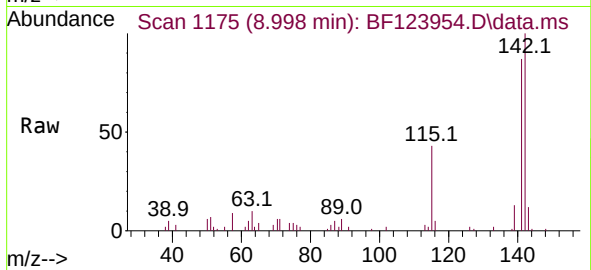




#38
1-Methylnaphthalene
Concen: 4.46 ng
RT: 8.998 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

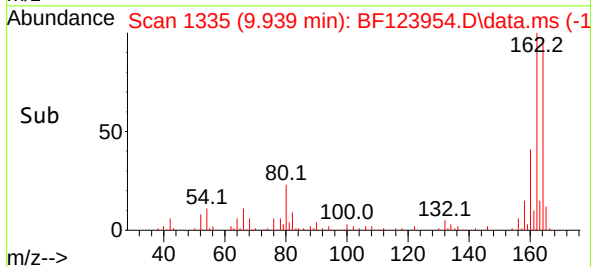
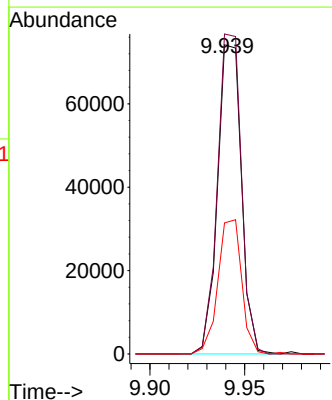
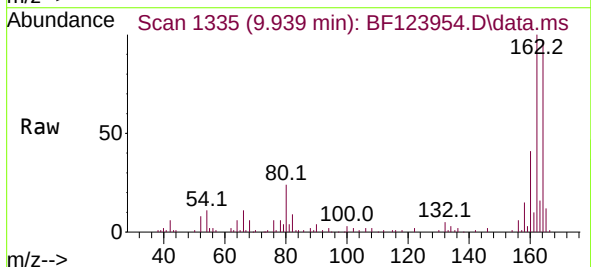
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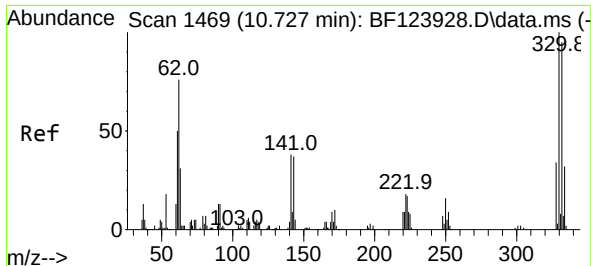
Tgt Ion:142 Resp: 21989
Ion Ratio Lower Upper
142 100
141 86.7 72.8 109.2



#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.939 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:164 Resp: 65198
Ion Ratio Lower Upper
164 100
162 103.5 80.7 121.1
160 42.4 37.3 55.9

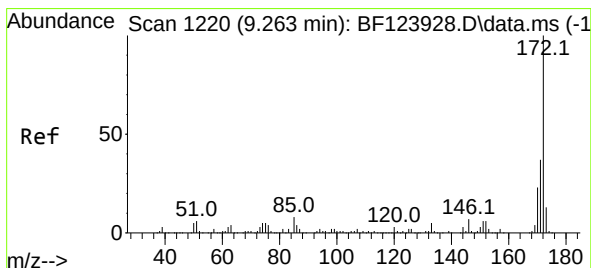
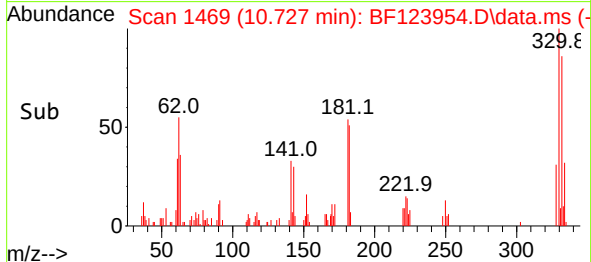
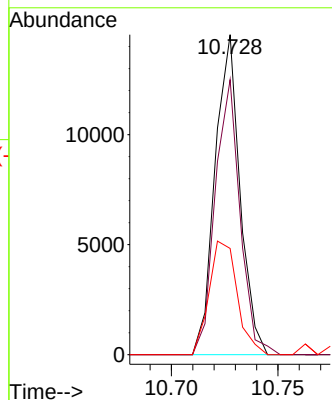
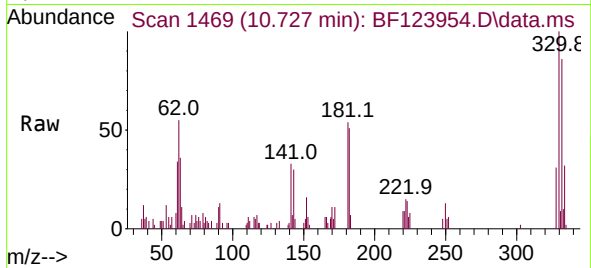




#42
2,4,6-Tribromophenol
Concen: 15.11 ng
RT: 10.727 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

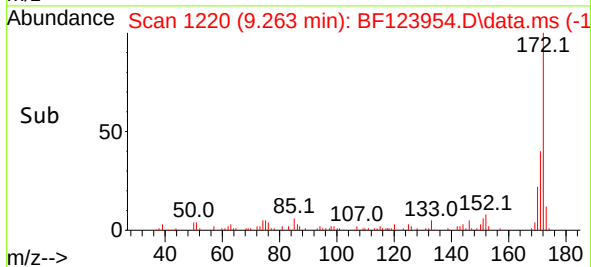
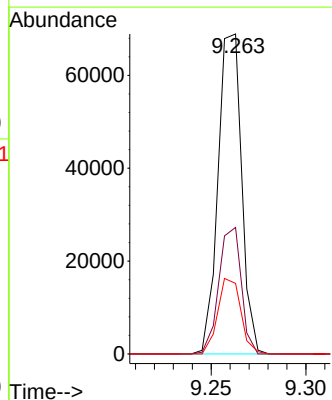
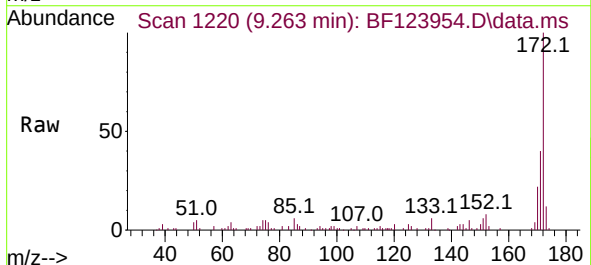
Instrument :
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DUP-01-05112021

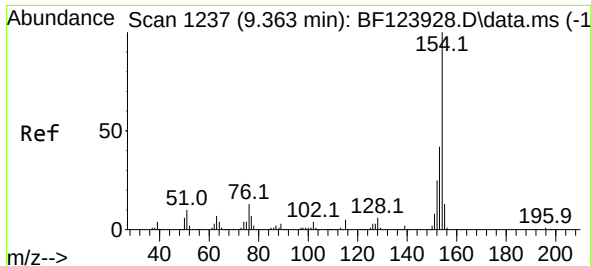
Tgt Ion: 330 Resp: 11836
Ion Ratio Lower Upper
330 100
332 85.3 77.1 115.7
141 40.1 27.9 41.9



#45
2-Fluorobiphenyl
Concen: 11.30 ng
RT: 9.263 min Scan# 1220
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion: 172 Resp: 59882
Ion Ratio Lower Upper
172 100
171 39.6 28.1 42.1
170 22.1 19.2 28.8





#46

1,1'-Biphenyl

Concen: 2.58 ng

RT: 9.363 min Scan# 1237

Delta R.T. 0.000 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

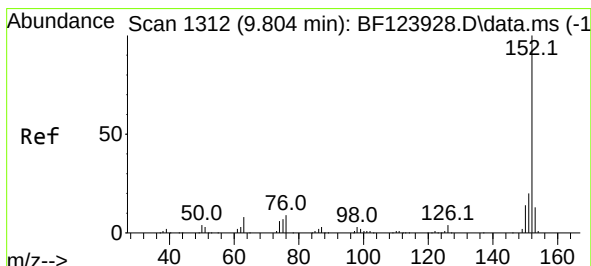
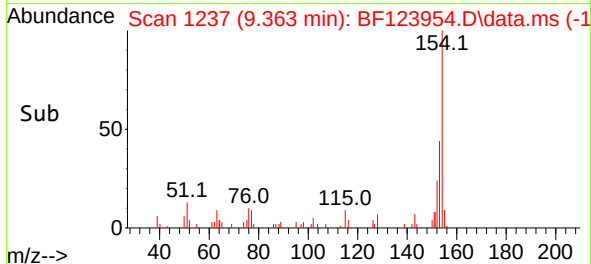
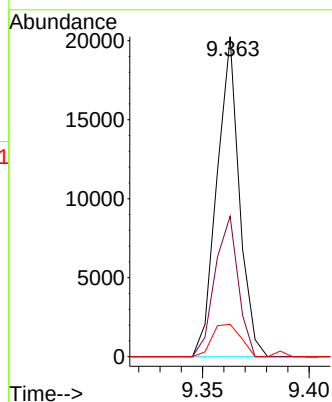
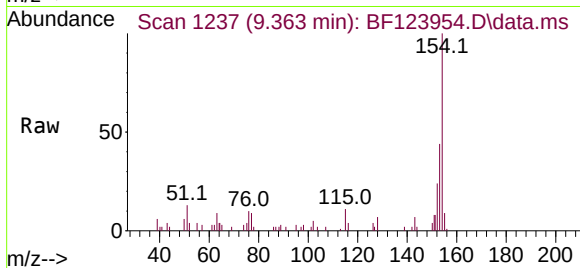
Instrument :

BNA_F

ClientSampleId :

DUP-01-05112021

Tgt Ion:154	Resp:	14793
Ion Ratio	Lower	Upper
154	100	
153	43.9	20.7 60.7
76	10.1	0.0 31.7



#49

Acenaphthylene

Concen: 2.30 ng

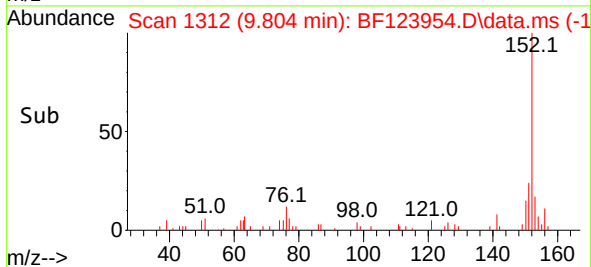
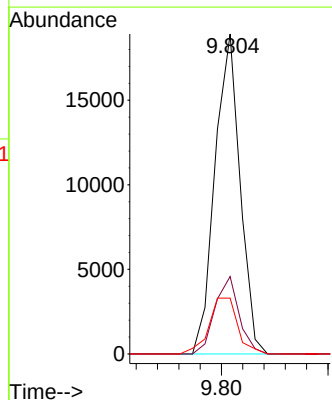
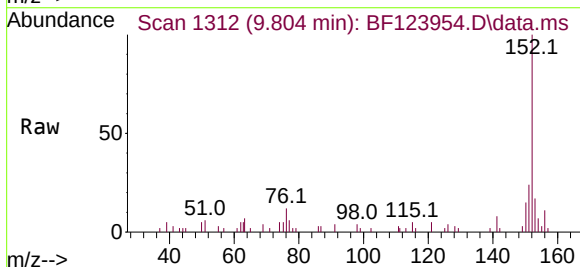
RT: 9.804 min Scan# 1312

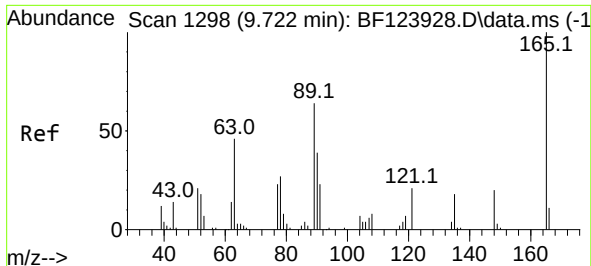
Delta R.T. 0.000 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

Tgt Ion:152	Resp:	15473
Ion Ratio	Lower	Upper
152	100	
151	24.2	16.0 24.0#
153	17.4	10.4 15.6#

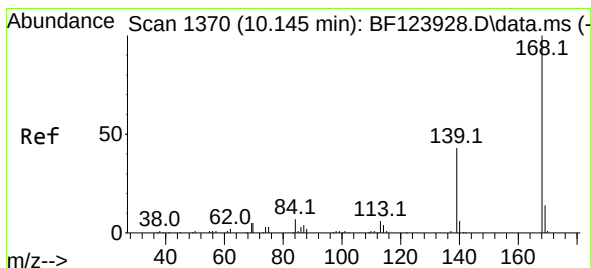
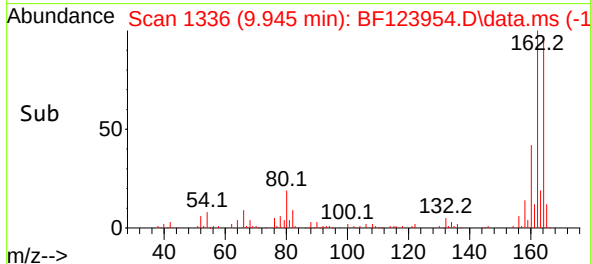
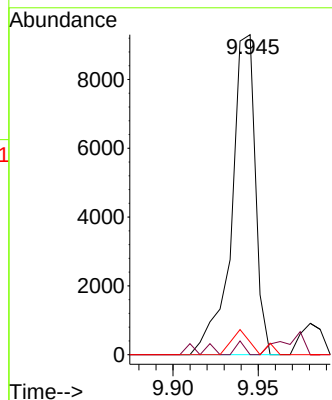
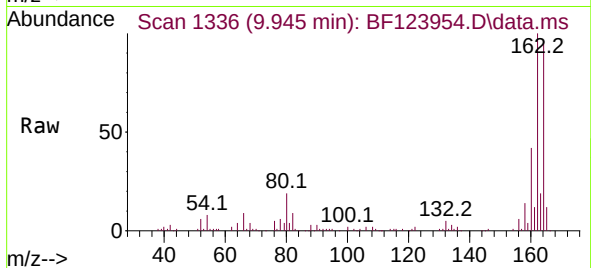




#51
2,6-Dinitrotoluene
Concen: 8.57 ng
RT: 9.945 min Scan# 1336
Delta R.T. 0.224 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

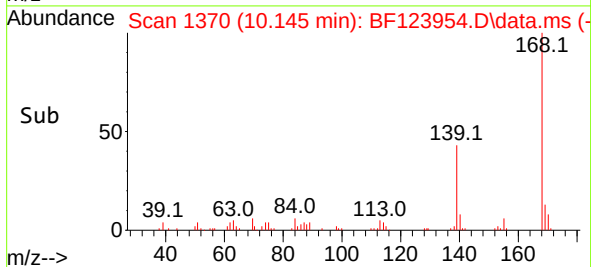
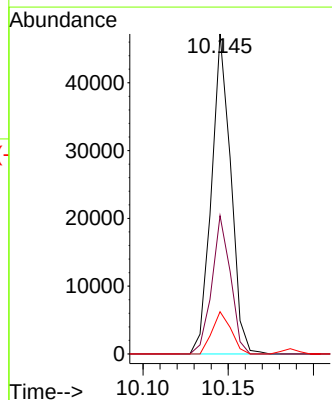
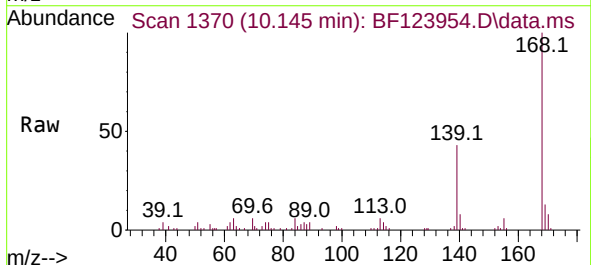
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

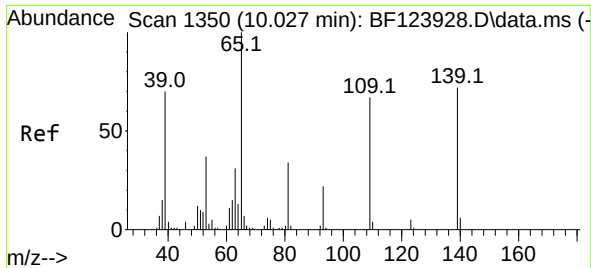
Tgt Ion:165 Resp: 9020
Ion Ratio Lower Upper
165 100
63 0.0 67.7 101.5#
89 3.9 58.8 88.2#



#55
Dibenzofuran
Concen: 5.61 ng
RT: 10.145 min Scan# 1370
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:168 Resp: 37152
Ion Ratio Lower Upper
168 100
139 43.2 33.2 49.8
169 13.2 10.8 16.2

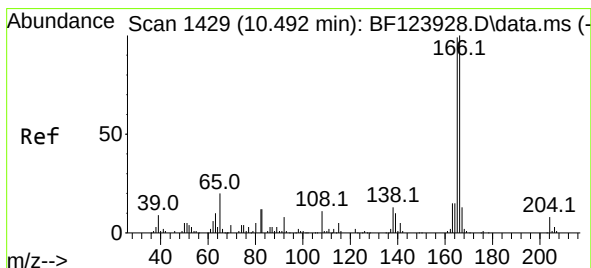
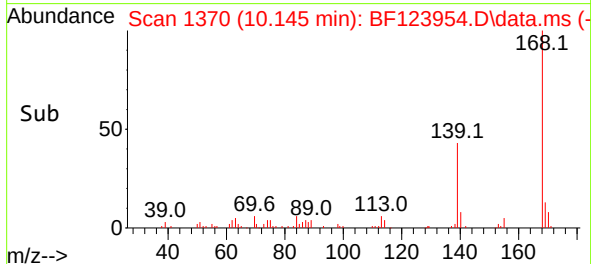
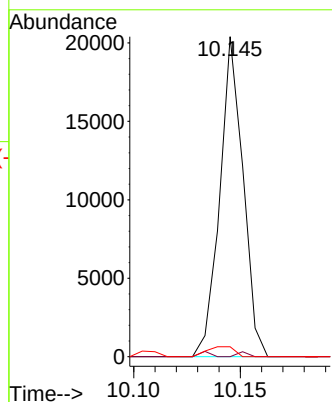
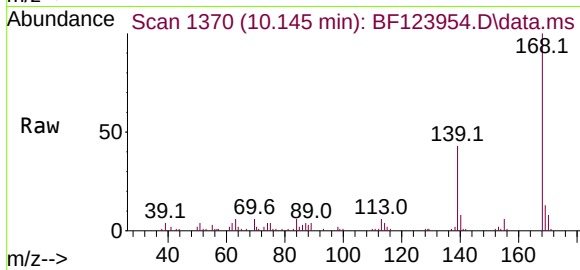




#56
4-Nitrophenol
Concen: 17.84 ng
RT: 10.145 min Scan# 1370
Delta R.T. 0.118 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

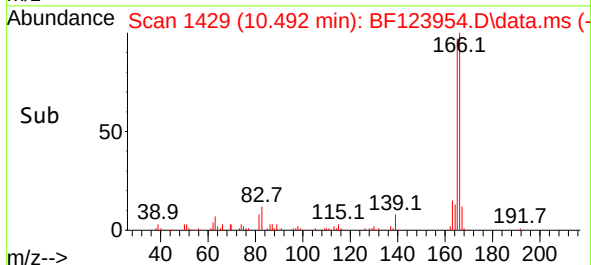
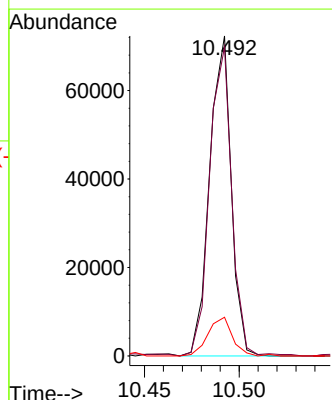
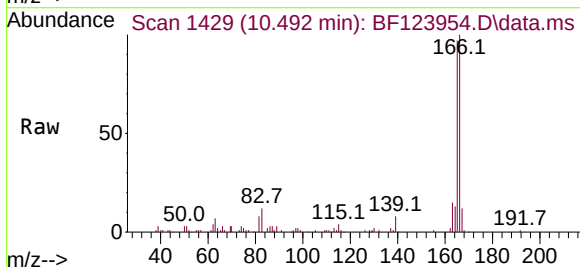
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

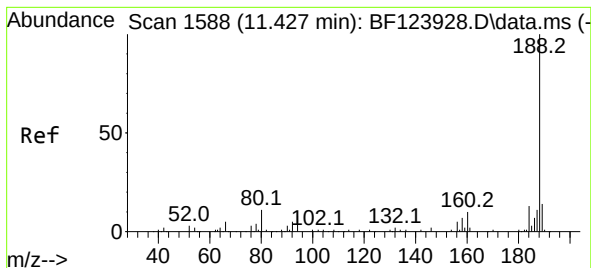
Tgt Ion:139 Resp: 15443
Ion Ratio Lower Upper
139 100
109 0.0 63.2 103.2#
65 3.1 110.0 150.0#



#58
Fluorene
Concen: 11.48 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:166 Resp: 57307
Ion Ratio Lower Upper
166 100
165 96.6 73.5 110.3
167 12.1 10.7 16.1

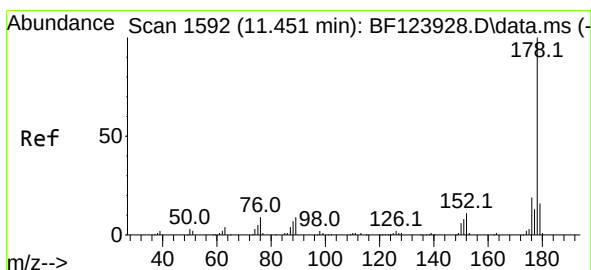
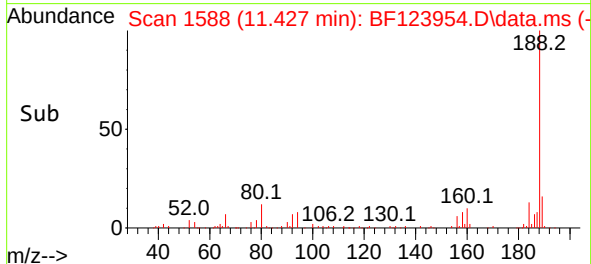
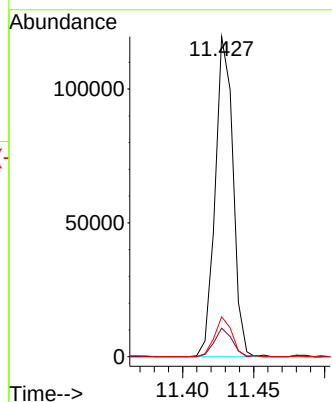
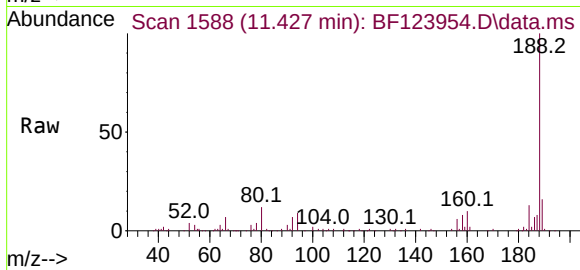




#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.427 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

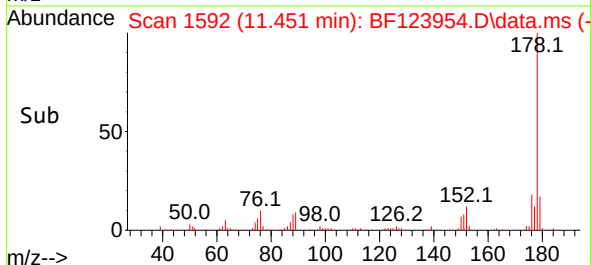
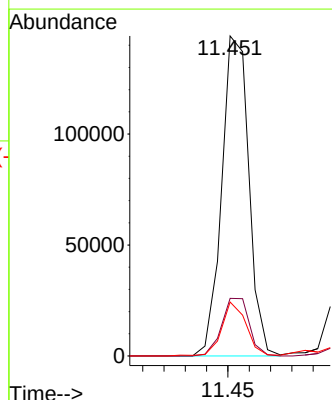
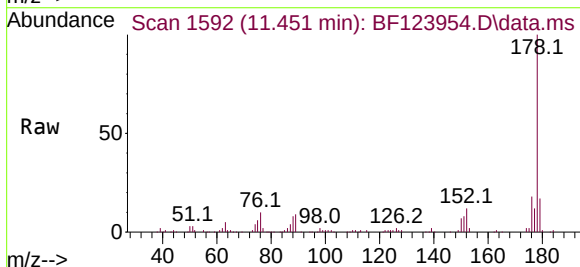
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

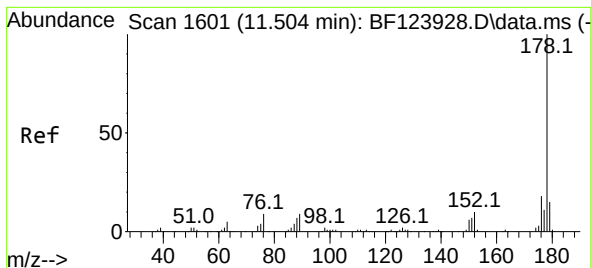
Tgt Ion:188 Resp: 103823
Ion Ratio Lower Upper
188 100
94 8.9 6.9 10.3
80 12.5 8.2 12.2#



#71
Phenanthrene
Concen: 19.40 ng
RT: 11.451 min Scan# 1592
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:178 Resp: 127631
Ion Ratio Lower Upper
178 100
176 18.0 15.6 23.4
179 16.9 12.5 18.7





#72

Anthracene

Concen: 5.18 ng

RT: 11.504 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

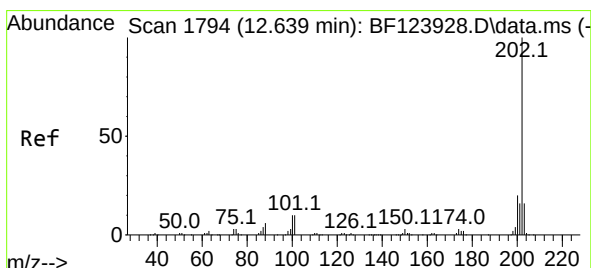
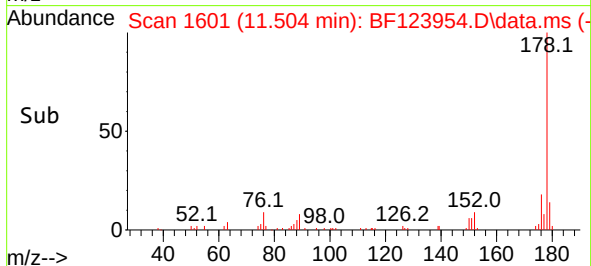
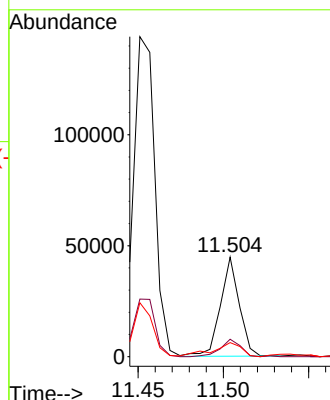
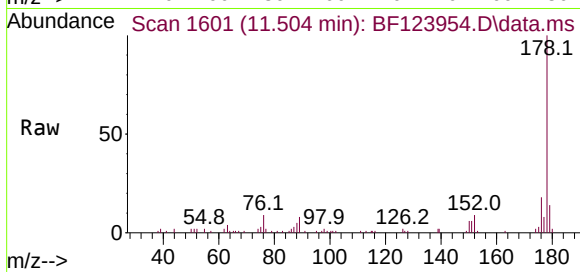
Instrument :

BNA_F

ClientSampleId :

DUP-01-05112021

Tgt Ion:178	Resp:	34544
Ion Ratio	Lower	Upper
178	100	
176	17.5	15.4 23.0
179	14.1	12.6 18.8



#75

Fluoranthene

Concen: 9.73 ng

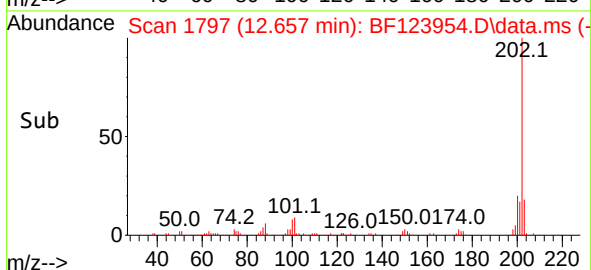
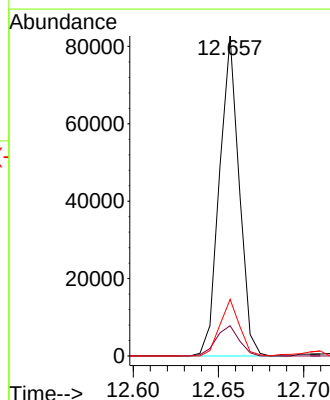
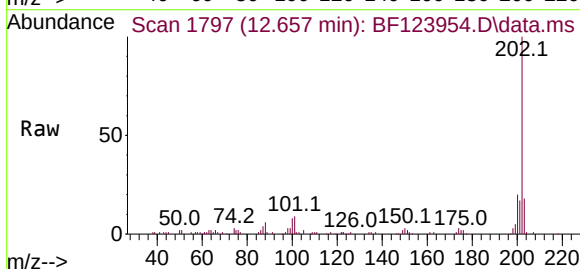
RT: 12.657 min Scan# 1797

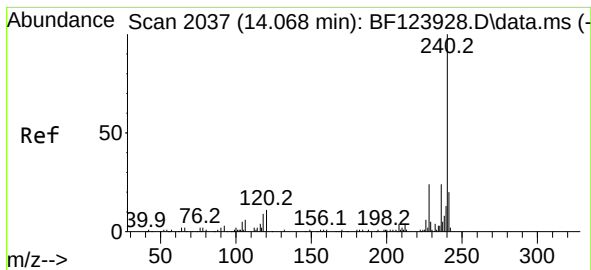
Delta R.T. 0.018 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

Tgt Ion:202	Resp:	66312
Ion Ratio	Lower	Upper
202	100	
101	9.5	0.0 30.9
203	17.7	0.0 37.5

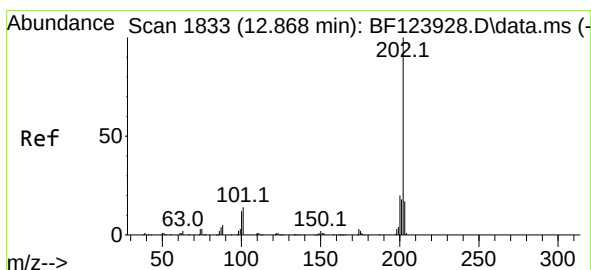
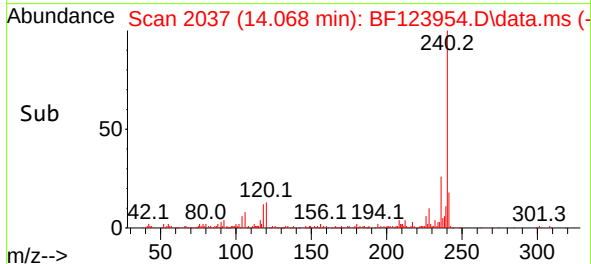
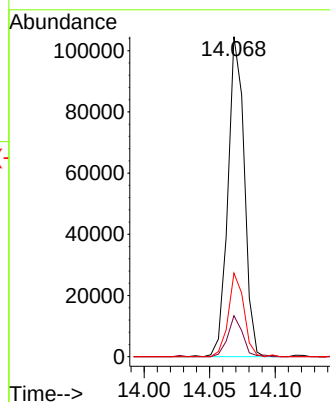
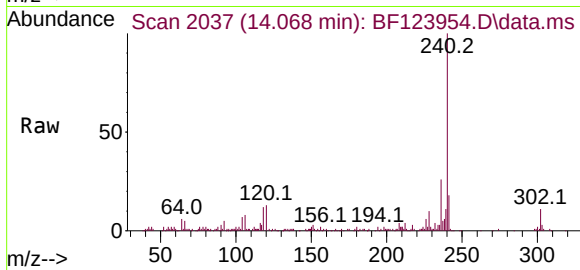




#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.068 min Scan# 2037
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

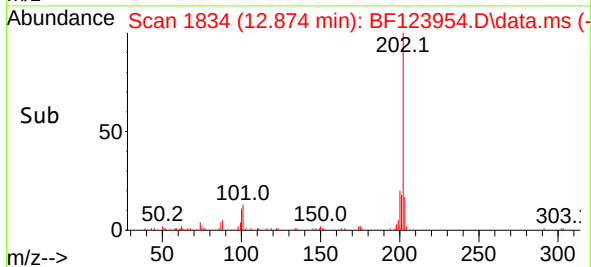
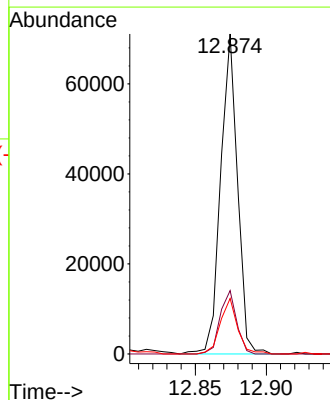
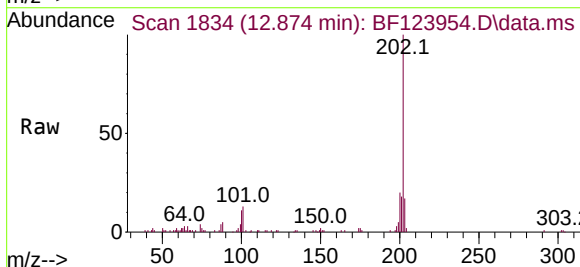
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

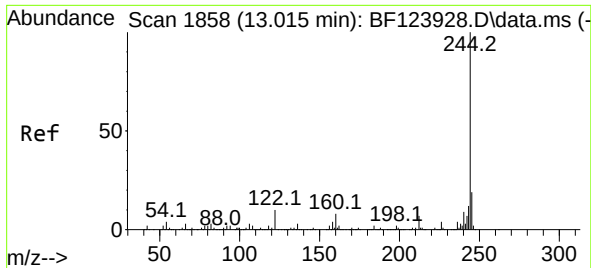
Tgt Ion:240 Resp: 90702
Ion Ratio Lower Upper
240 100
120 12.8 7.2 10.8#
236 26.1 19.0 28.4



#78
Pyrene
Concen: 7.28 ng
RT: 12.874 min Scan# 1834
Delta R.T. 0.006 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:202 Resp: 58660
Ion Ratio Lower Upper
202 100
200 19.8 16.1 24.1
203 17.4 14.8 22.2

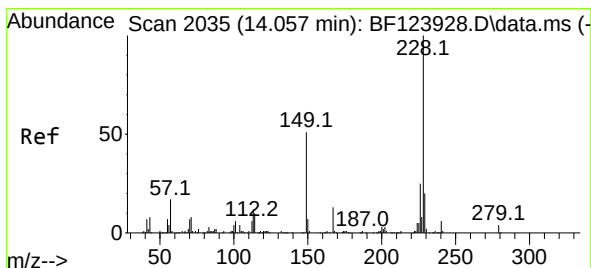
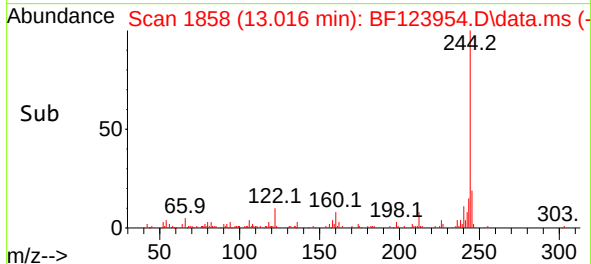
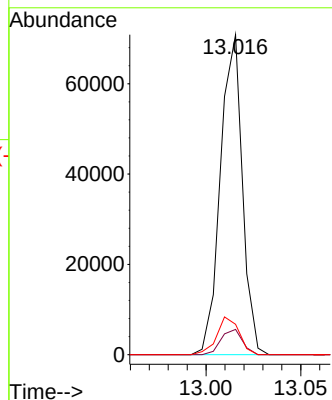
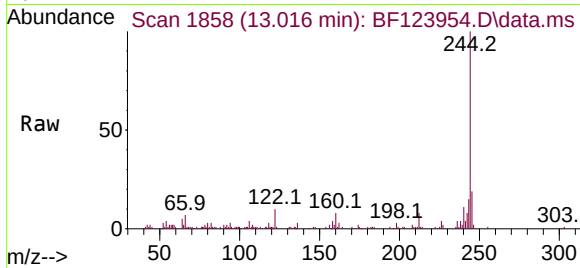




#79
 Terphenyl-d14
 Concen: 9.55 ng
 RT: 13.016 min Scan# 1858
 Delta R.T. 0.000 min
 Lab File: BF123954.D
 Acq: 15 May 2021 19:58

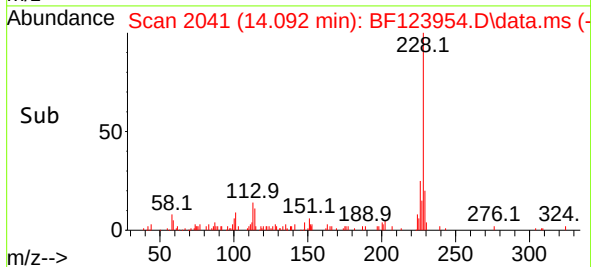
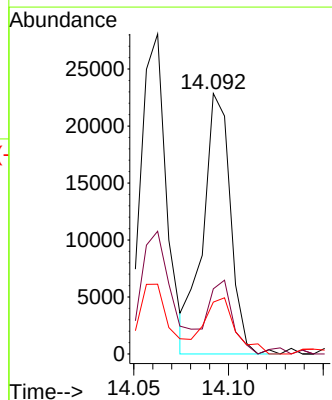
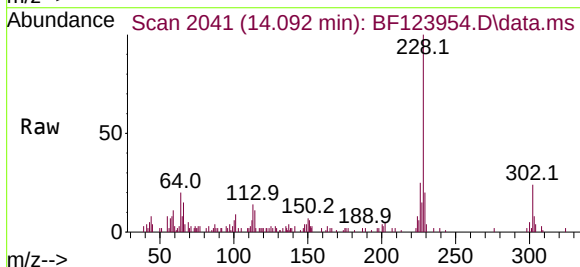
Instrument :
 BNA_F
 ClientSampleId :
 DUP-01-05112021

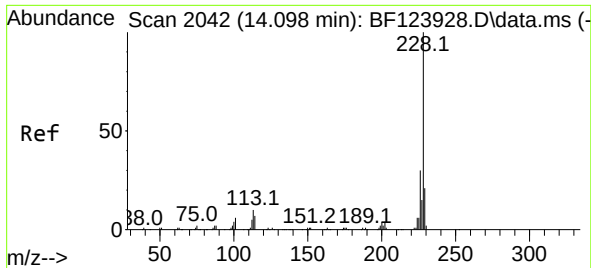
Tgt Ion:244 Resp: 57168
 Ion Ratio Lower Upper
 244 100
 212 7.9 5.7 8.5
 122 9.5 9.7 14.5#



#81
 Benzo(a)anthracene
 Concen: 3.52 ng
 RT: 14.092 min Scan# 2041
 Delta R.T. 0.035 min
 Lab File: BF123954.D
 Acq: 15 May 2021 19:58

Tgt Ion:228 Resp: 23097
 Ion Ratio Lower Upper
 228 100
 226 25.0 22.4 33.6
 229 19.9 16.0 24.0

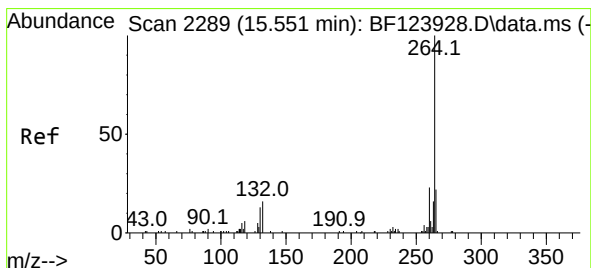
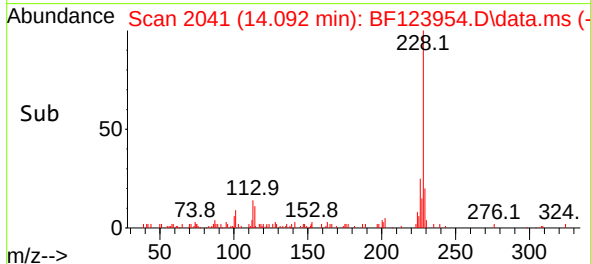
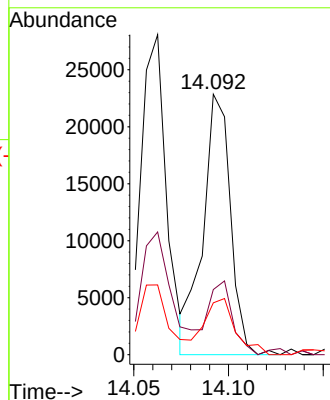
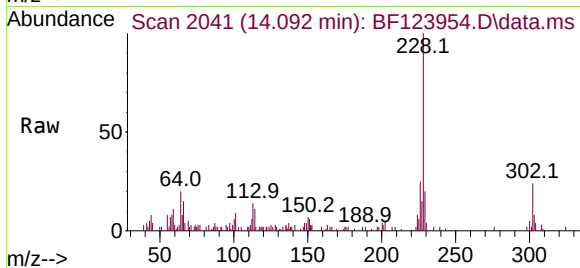




#83
Chrysene
Concen: 3.66 ng
RT: 14.092 min Scan# 2041
Delta R.T. -0.006 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

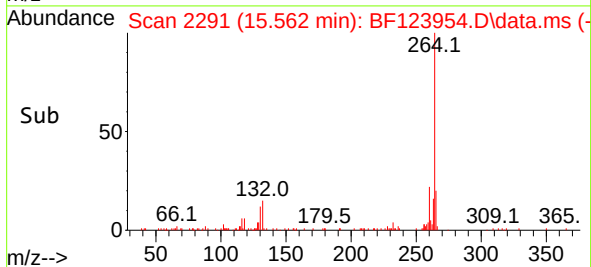
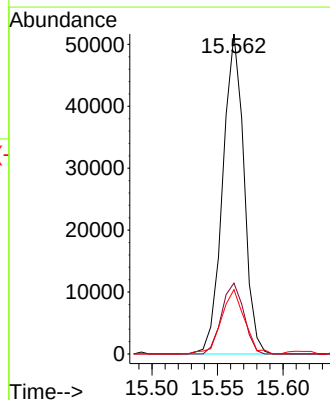
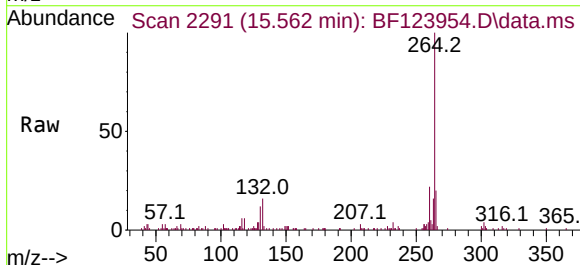
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

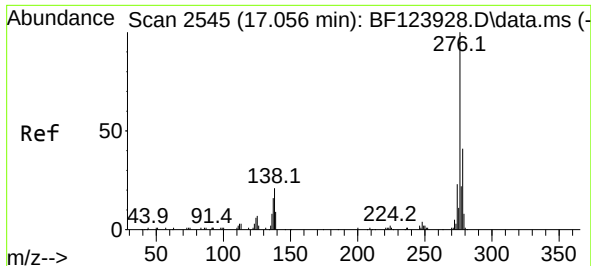
Tgt Ion:	228	Resp:	23097
Ion Ratio	Lower	Upper	
228	100		
226	25.0	24.3	36.5
229	19.9	16.2	24.2



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.562 min Scan# 2291
Delta R.T. 0.012 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:	264	Resp:	57845
Ion Ratio	Lower	Upper	
264	100		
260	22.2	18.7	28.1
265	20.1	17.8	26.8

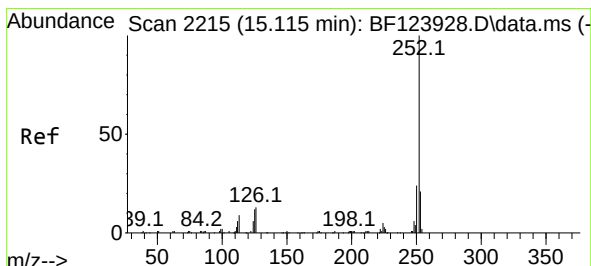
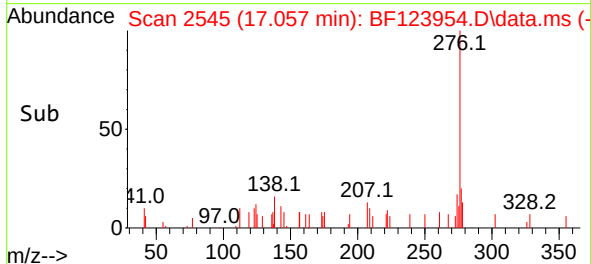
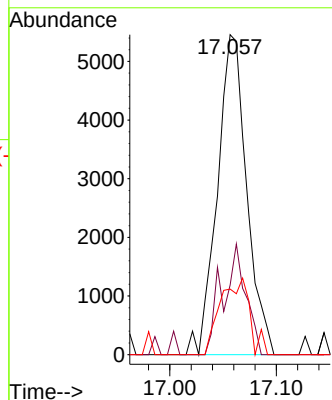
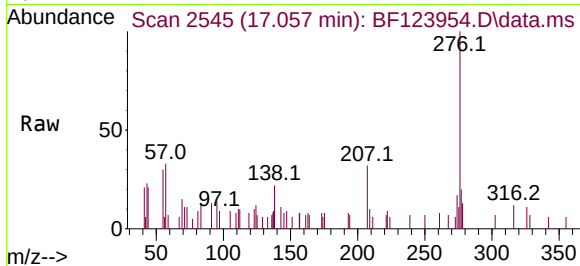




#87
Indeno(1,2,3-cd)pyrene
Concen: 2.34 ng
RT: 17.057 min Scan# 2545
Delta R.T. 0.000 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

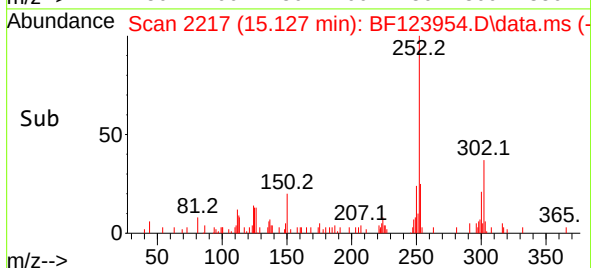
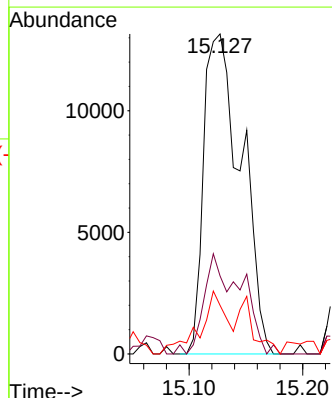
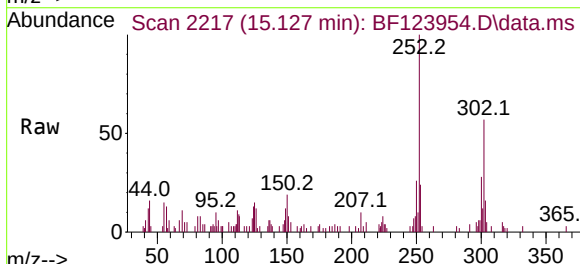
Instrument :
BNA_F
ClientSampleId :
DUP-01-05112021

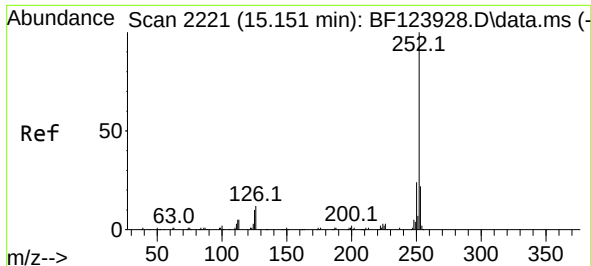
Tgt Ion:276 Resp: 10457
Ion Ratio Lower Upper
276 100
138 27.6 16.2 24.2#
277 23.9 20.1 30.1



#88
Benzo(b)fluoranthene
Concen: 6.76 ng
RT: 15.127 min Scan# 2217
Delta R.T. 0.012 min
Lab File: BF123954.D
Acq: 15 May 2021 19:58

Tgt Ion:252 Resp: 30262
Ion Ratio Lower Upper
252 100
253 24.4 18.1 27.1
125 15.2 6.2 9.4#





#89

Benzo(k)fluoranthene

Concen: 7.42 ng

RT: 15.127 min Scan# 2217

Delta R.T. -0.023 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

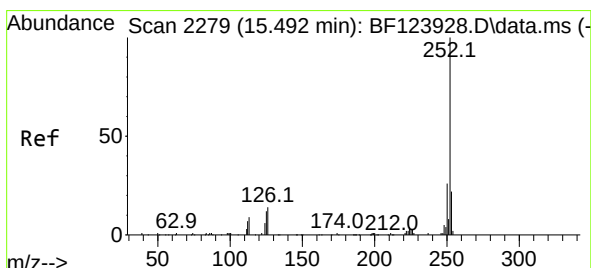
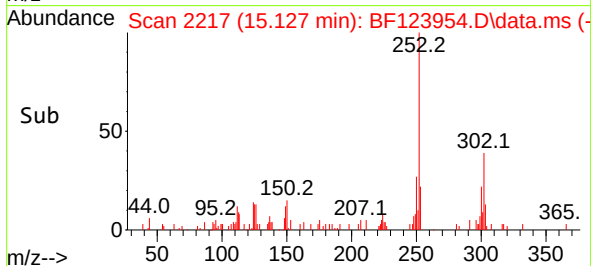
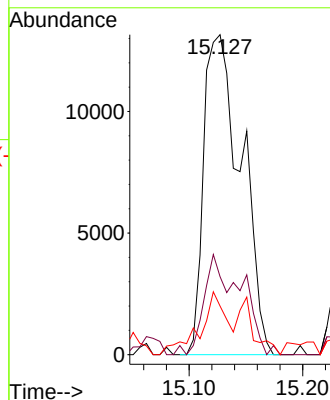
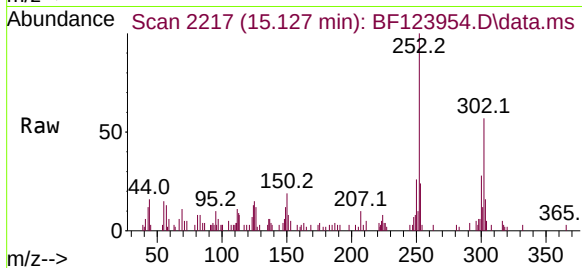
Tgt Ion:	252	Resp:	30262
Ion Ratio	Lower	Upper	
252	100		
253	24.4	17.9	26.9
125	15.2	7.0	10.6#

Instrument :

BNA_F

ClientSampleId :

DUP-01-05112021



#90

Benzo(a)pyrene

Concen: 3.89 ng

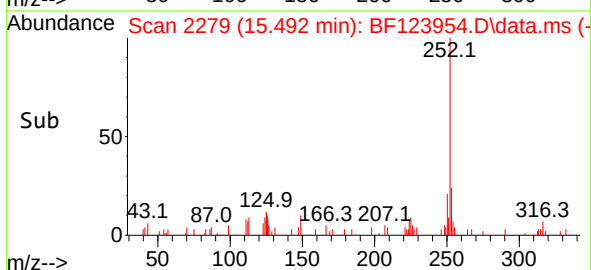
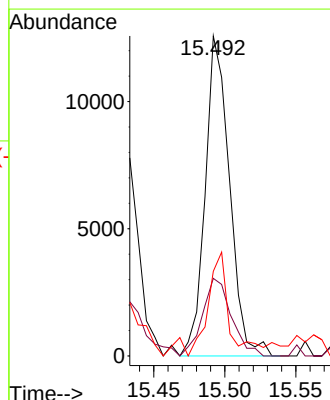
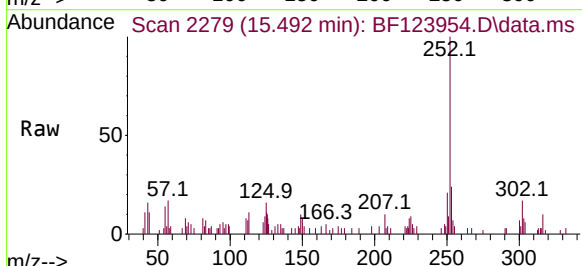
RT: 15.492 min Scan# 2279

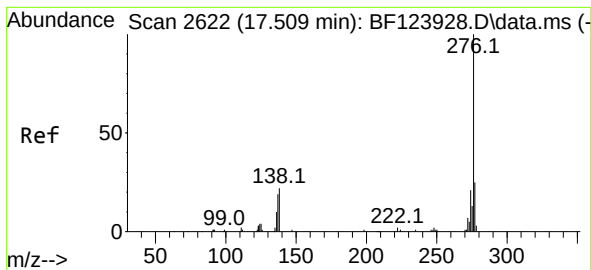
Delta R.T. 0.000 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58

Tgt Ion:	252	Resp:	15053
Ion Ratio	Lower	Upper	
252	100		
253	24.2	18.4	27.6
125	36.2	8.0	12.0#





#92

Benzo(g,h,i)perylene

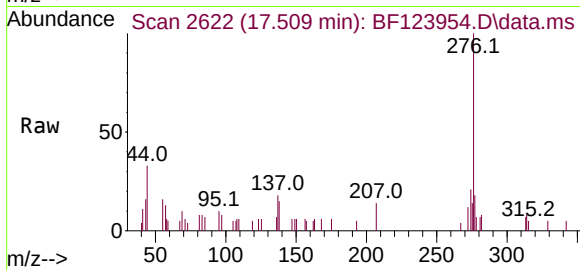
Concen: 3.60 ng

RT: 17.509 min Scan# 2622

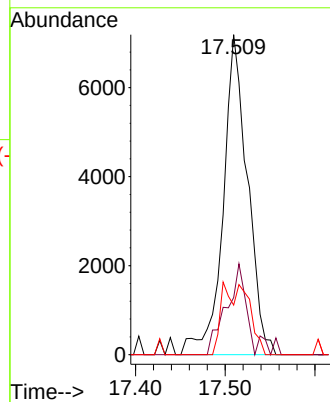
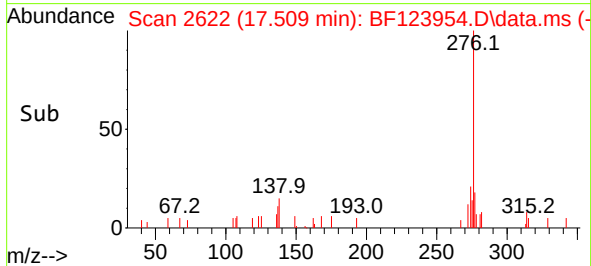
Delta R.T. 0.000 min

Lab File: BF123954.D

Acq: 15 May 2021 19:58



Tgt Ion:	276	Resp:	13592
Ion	Ratio	Lower	Upper
276	100		
277	17.9	18.2	27.2#
138	15.5	13.8	20.6



Instrument :

BNA_F

ClientSampleId :

DUP-01-05112021