

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121706.D
 Acq On : 28 Sep 2020 12:02
 Operator : JU/CG
 Sample : L4152-01DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2DL

Quant Time: Sep 28 12:37:42 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 11:40:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	155669	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	618532	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	323201	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	621013	20.00	ng	0.00
76) Chrysene-d12	13.96	240	464256	20.00	ng	0.00
86) Perylene-d12	15.40	264	398925	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	18368	1.75	ng	0.00
7) Phenol-d6	6.43	99	115983	8.44	ng	-0.01
23) Nitrobenzene-d5	7.35	82	87332	7.58	ng	-0.02
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.15	172	188103	8.81	ng	0.00
79) Terphenyl-d14	12.89	244	211113	9.21	ng	-0.01

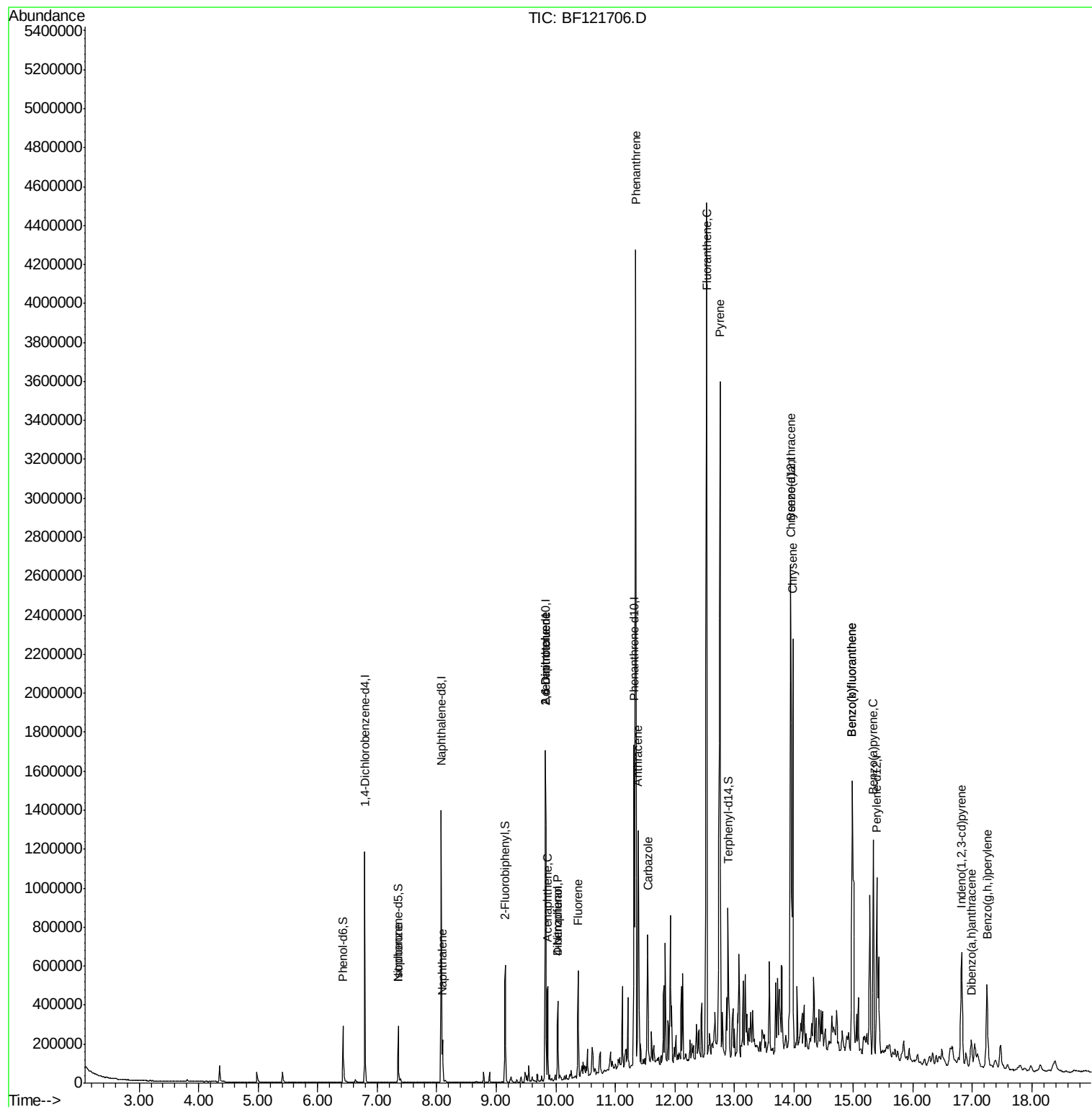
Target Compounds				Qvalue		
25) Isophorone	7.35	82	87331	3.766	ng	# 65
31) Naphthalene	8.10	128	73790	2.260	ng	100
51) 2,6-Dinitrotoluene	9.83	165	44052	8.830	ng	# 22
52) Acenaphthene	9.86	154	100373	5.073	ng	98
55) Dibenzofuran	10.03	168	137918	4.949	ng	95
56) 4-Nitrophenol	10.03	139	51473	11.168	ng	# 7
57) 2,4-Dinitrotoluene	9.83	165	44052	7.019	ng	# 24
58) Fluorene	10.37	166	126974	5.959	ng	100
71) Phenanthrene	11.34	178	1652127	48.828	ng	100
72) Anthracene	11.39	178	480336	13.757	ng	98
73) Carbazole	11.54	167	250751	7.958	ng	98
75) Fluoranthene	12.53	202	1967361	54.469	ng	98
78) Pyrene	12.76	202	1660738	48.961	ng	99
81) Benzo(a)anthracene	13.94	228	864014	29.417	ng	100
83) Chrysene	13.98	228	741670	24.937	ng	97
87) Indeno(1,2,3-cd)pyrene	16.82	276	384619	14.805	ng	94
88) Benzo(b)fluoranthene	14.98	252	1060384	39.762	ng	98
89) Benzo(k)fluoranthene	14.98	252	1060384	43.420	ng	# 96
90) Benzo(a)pyrene	15.33	252	542612	23.936	ng	98
91) Dibenzo(a,h)anthracene	16.98	278	81918	3.788	ng	99
92) Benzo(g,h,i)perylene	17.24	276	346674	16.308	ng	100

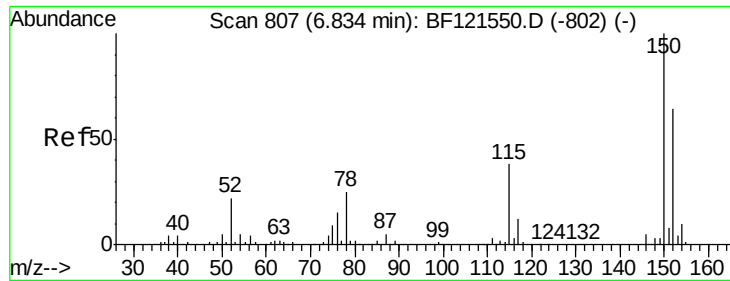
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2DL

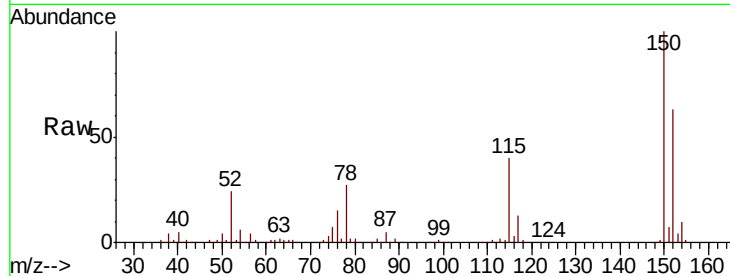
Tot Ion:152 Resp: 155669

Ion Ratio Lower Upper

152 100

150 157.8 122.6 184.0

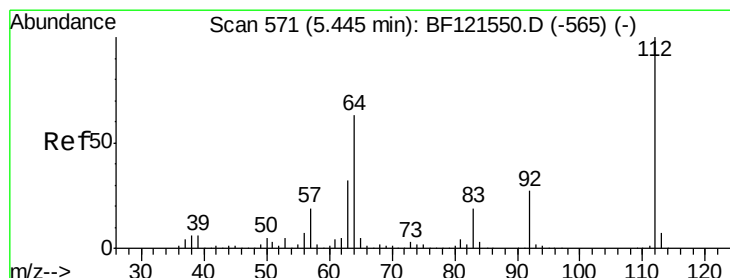
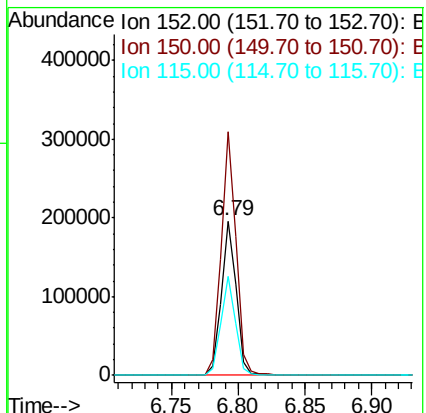
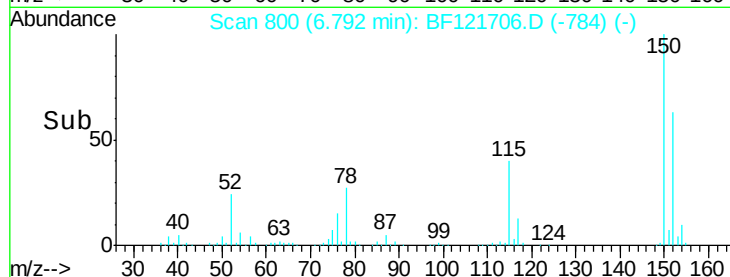
115 63.8 47.1 70.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 1.754 ng

RT: 5.41 min Scan# 565

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

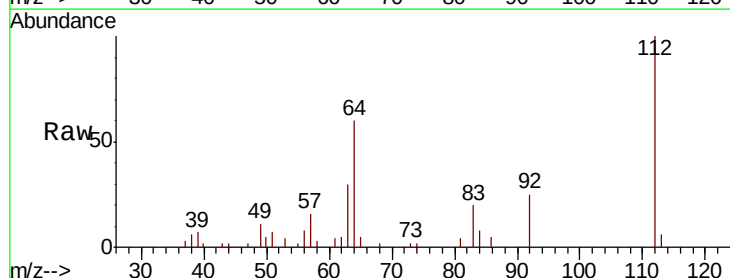
Tgt Ion:112 Resp: 18368

Ion Ratio Lower Upper

112 100

64 60.4 49.5 74.3

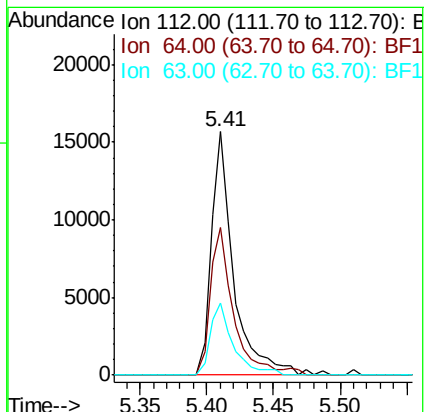
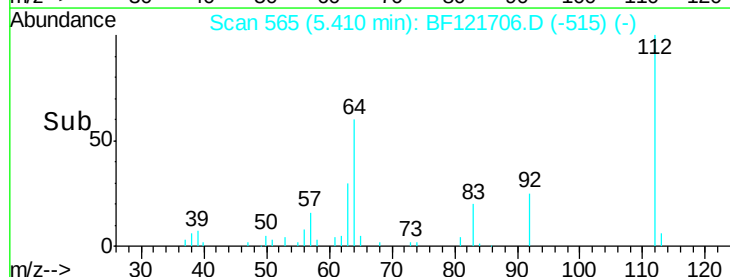
63 29.9 25.4 38.0

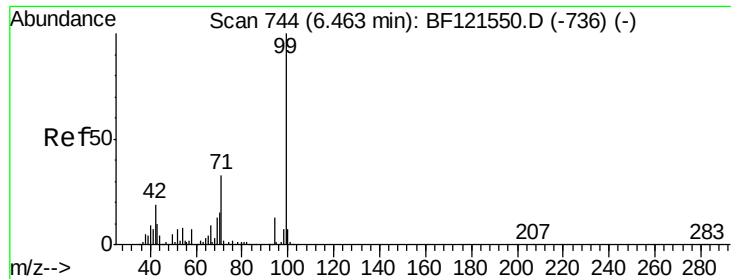


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 8.440 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Instrument :

BNA_F

ClientSampled :

WR-PILE-1-2DL

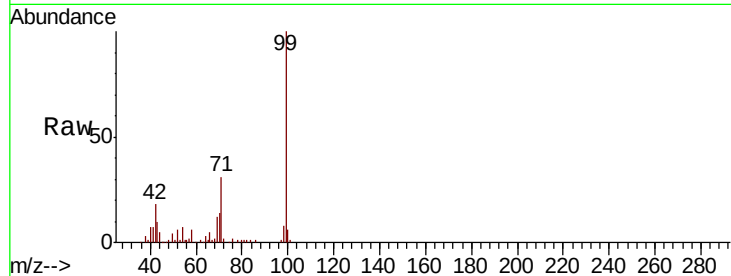
Tot Ion: 99 Resp: 115983

Ion Ratio Lower Upper

99 100

42 18.1 16.1 24.1

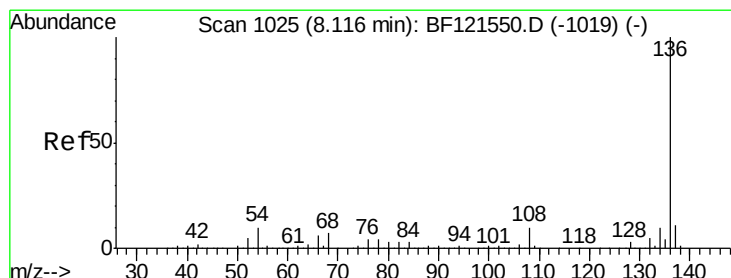
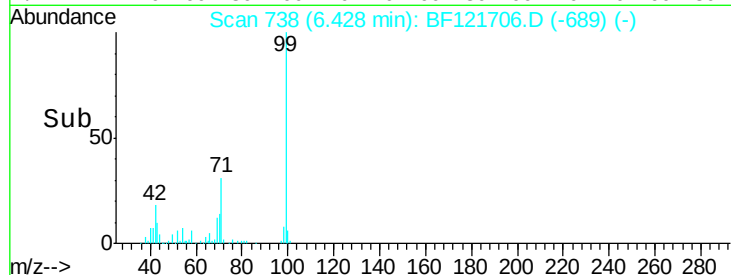
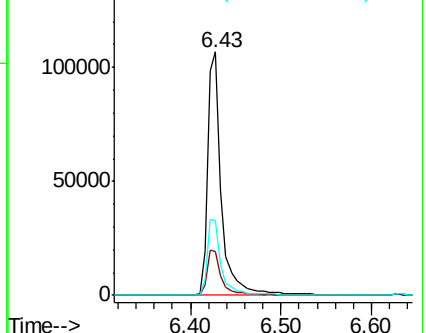
71 30.7 27.6 41.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Tgt Ion: 136 Resp: 618532

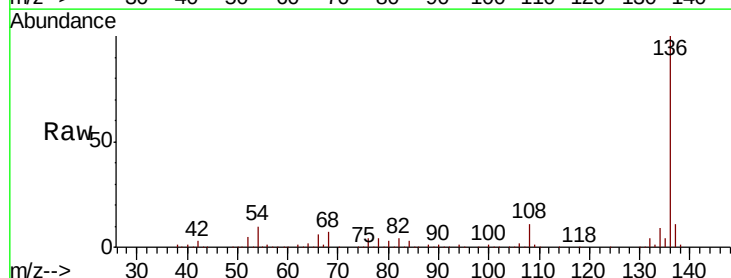
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 10.1 7.5 11.3

68 7.2 5.5 8.3

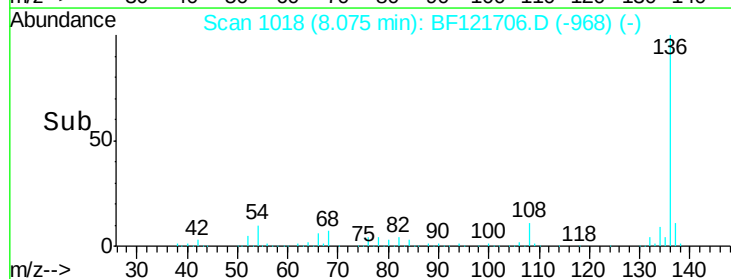
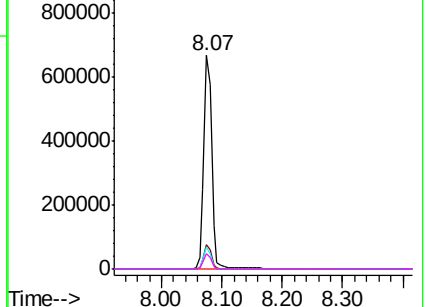


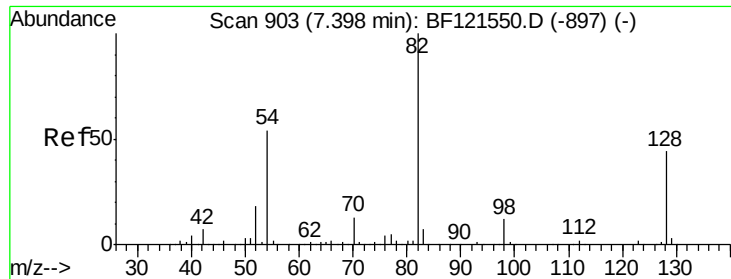
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

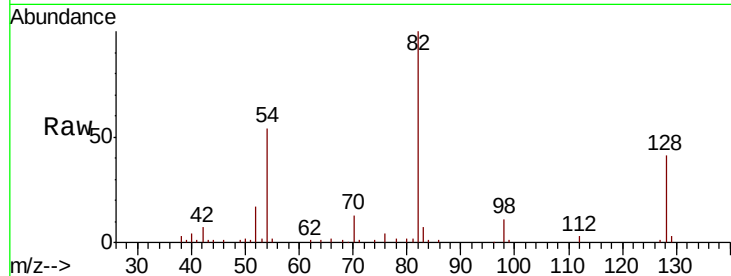




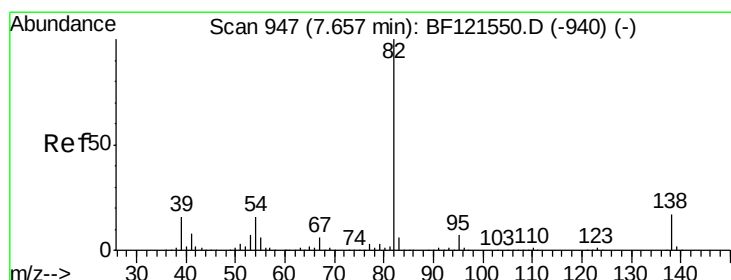
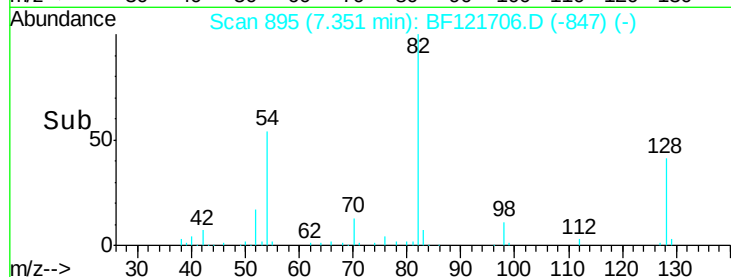
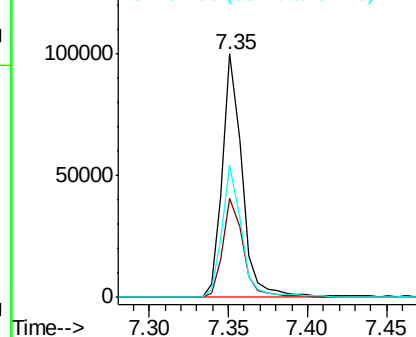
#23
Nitrobenzene-d5
Concen: 7.581 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

Tot Ion	82	Resp	87332
Ion Ratio	Lower	Upper	
82	100		
128	40.5	35.8	53.6
54	54.3	42.6	63.8

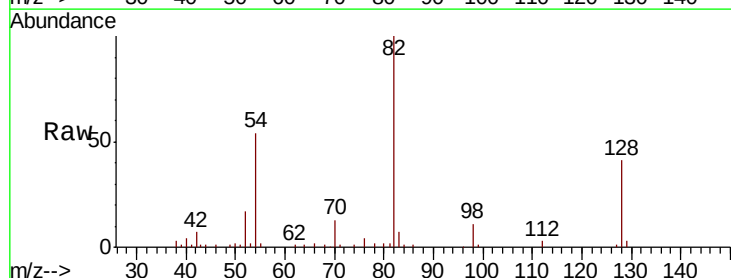


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

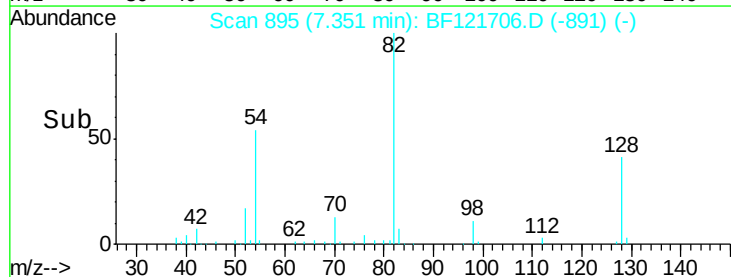
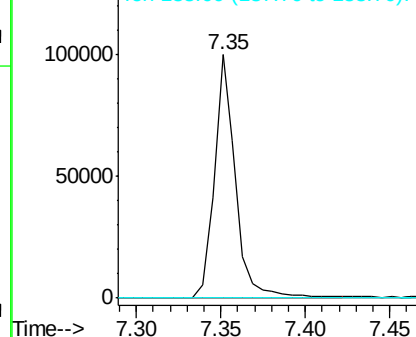


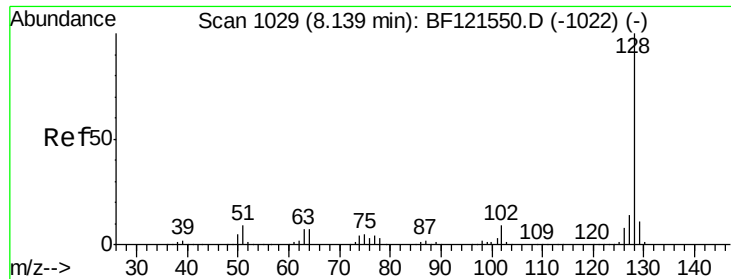
#25
Isophorone
Concen: 3.766 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.28 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion	82	Resp	87331
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.7	8.5#
138	0.0	14.2	21.4#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

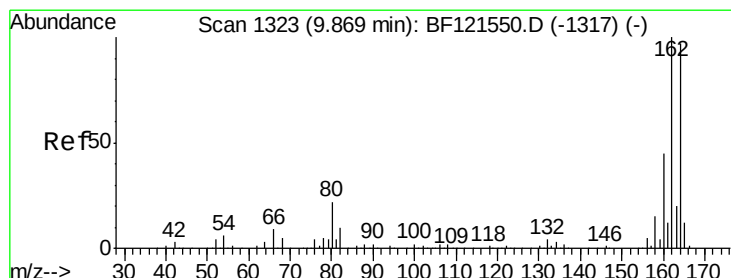
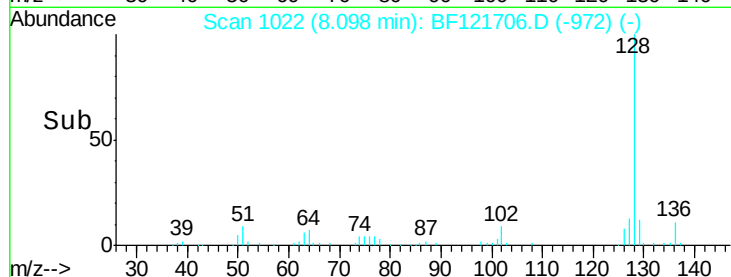
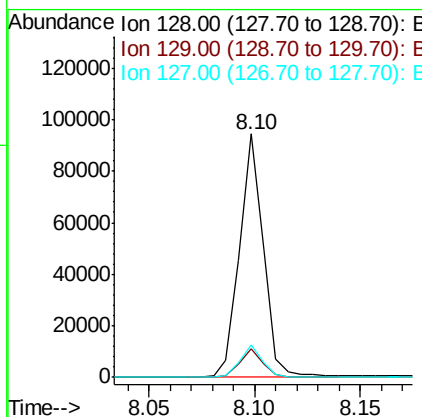
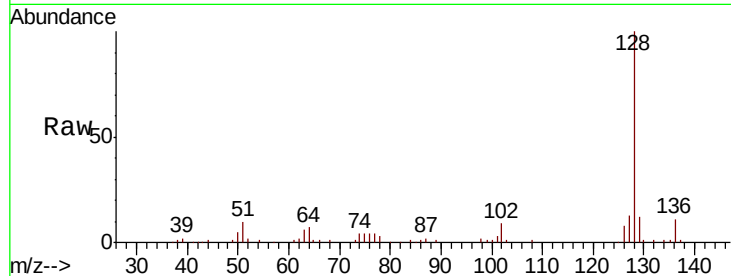




#31
Naphthalene
Concen: 2.260 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

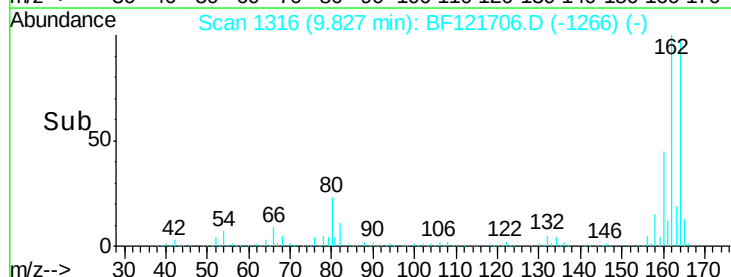
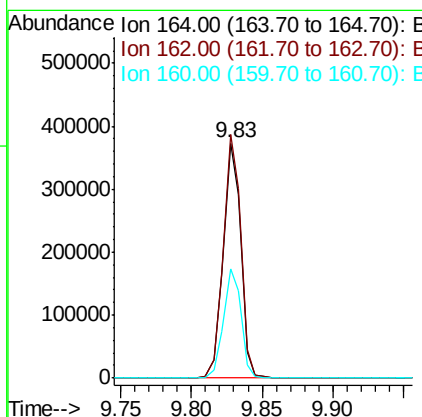
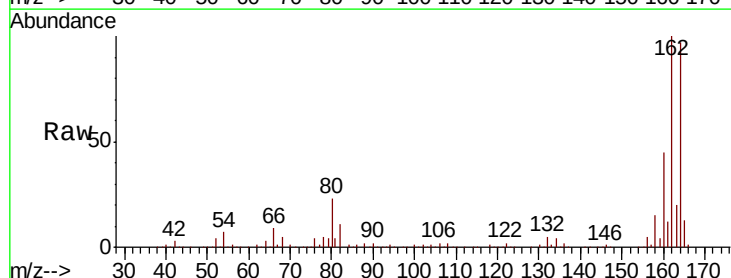
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

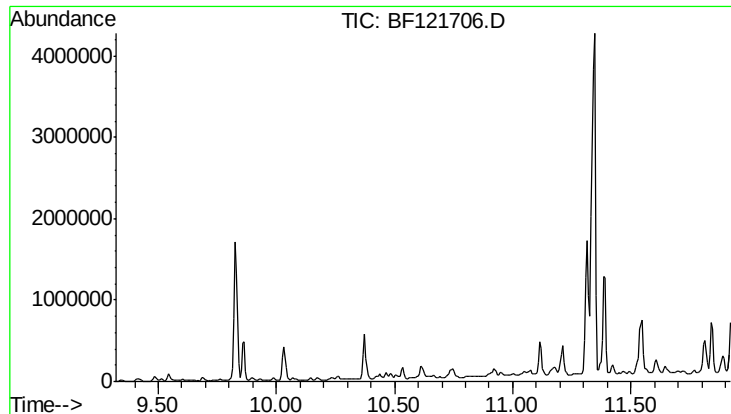
Tot Ion:128 Resp: 73790
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.3 10.8 16.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion:164 Resp: 323201
Ion Ratio Lower Upper
164 100
162 103.6 82.1 123.1
160 46.7 36.8 55.2

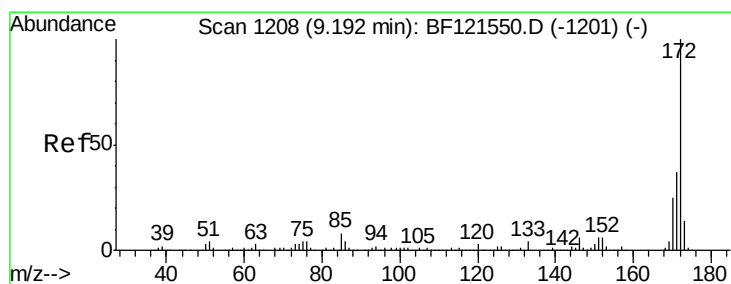
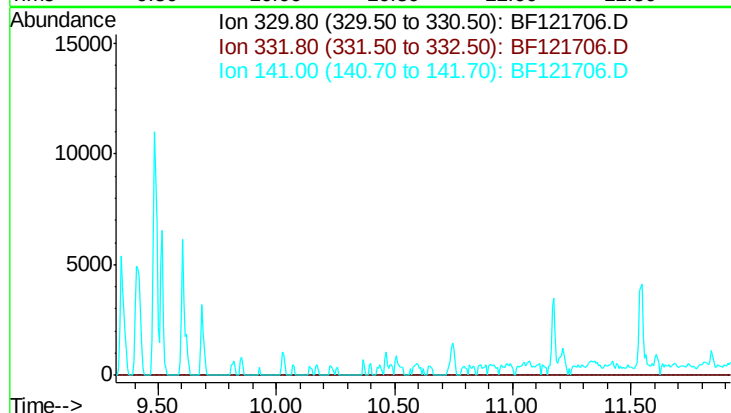




#42
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.62 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

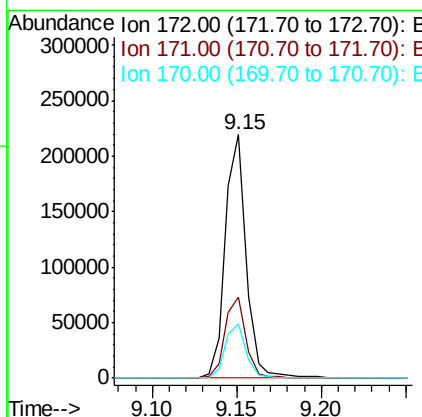
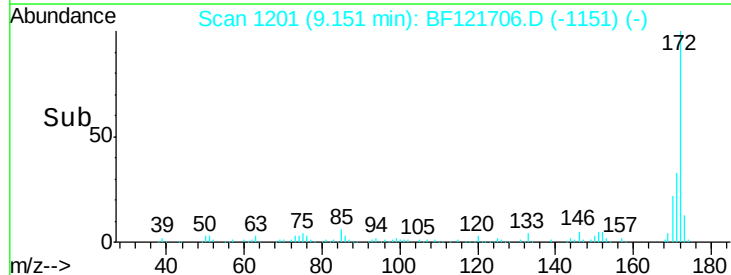
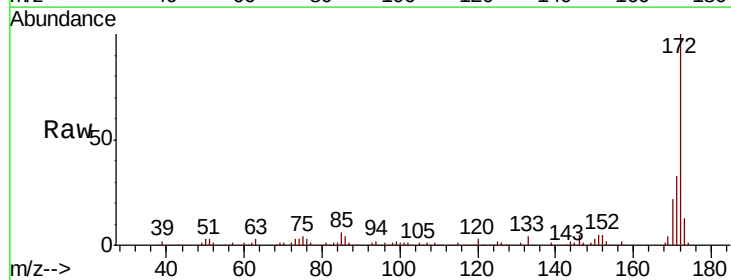
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2DL

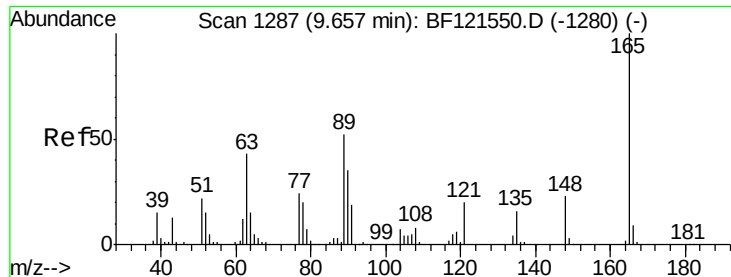
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 95.0
 141 27.8



#45
 2-Fluorobiphenyl
 Concen: 8.815 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Tgt Ion: 172 Resp: 188103
 Ion Ratio Lower Upper
 172 100
 171 33.4 29.0 43.6
 170 22.5 19.5 29.3





#51

2,6-Dinitrotoluene

Concen: 8.830 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.21 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2DL

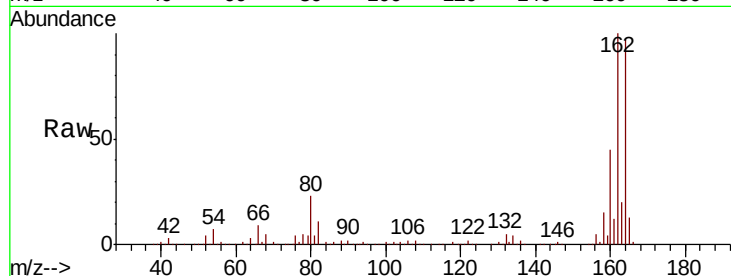
Tot Ion:165 Resp: 44052

Ion Ratio Lower Upper

165 100

63 1.0 49.8 74.6#

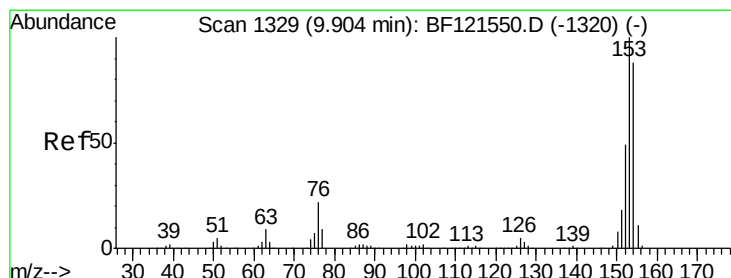
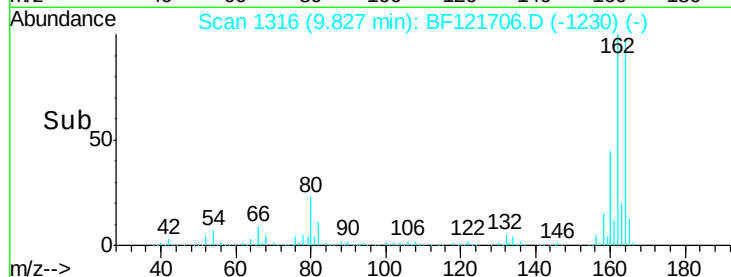
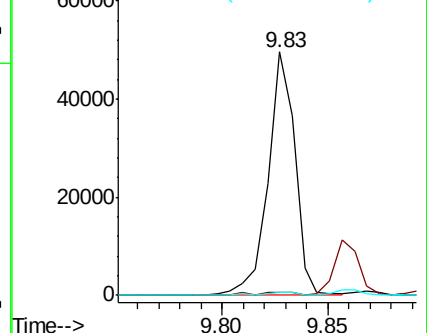
89 1.4 48.2 72.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 5.073 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

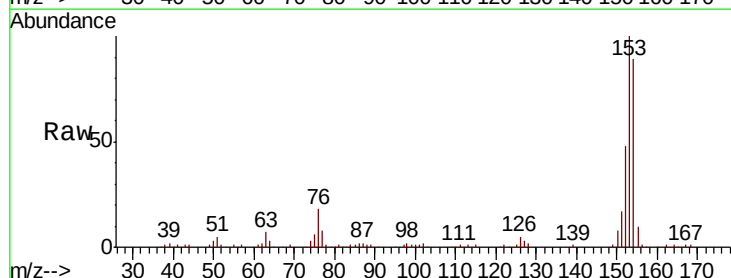
Tgt Ion:154 Resp: 100373

Ion Ratio Lower Upper

154 100

153 112.5 91.7 137.5

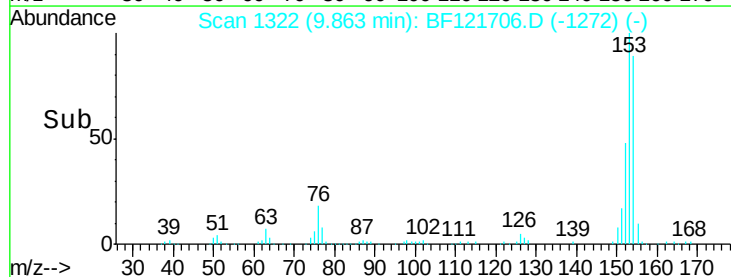
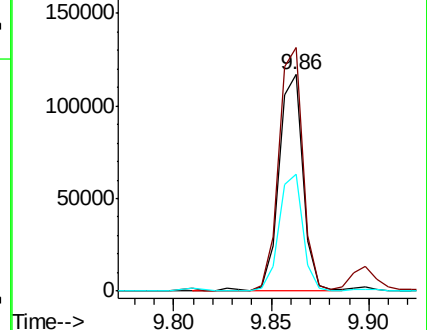
152 54.1 44.0 66.0

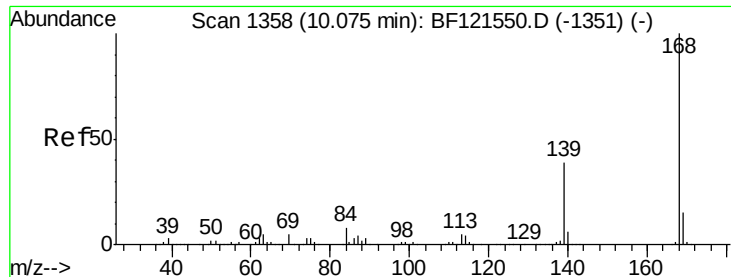


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

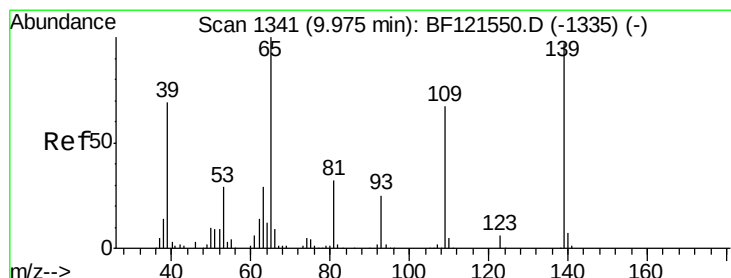
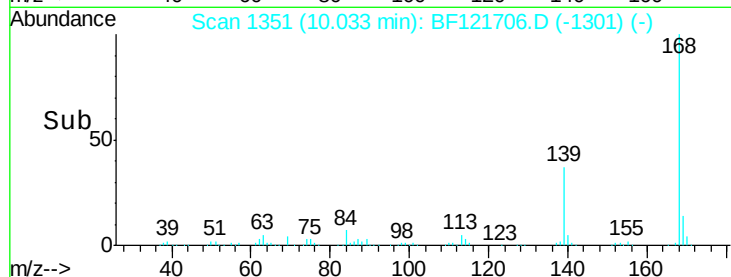
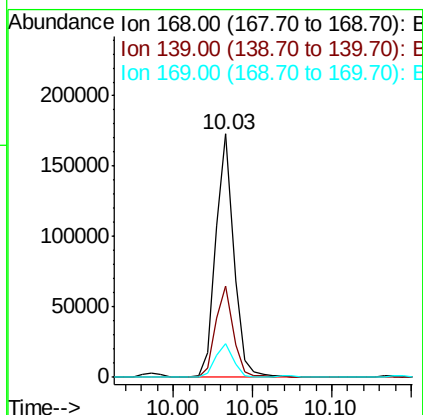
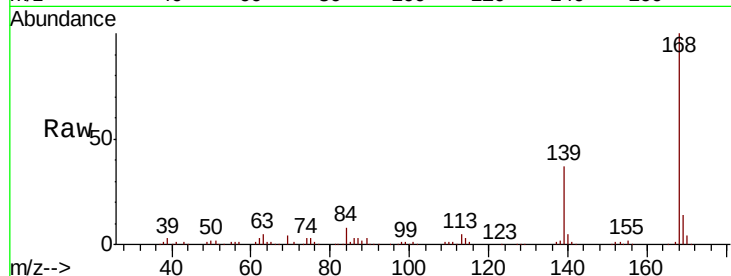




#55
Dibenzofuran
Concen: 4.949 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

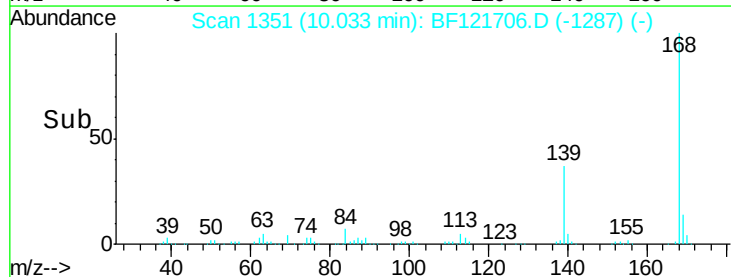
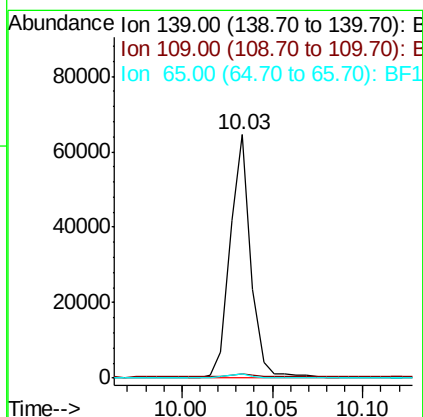
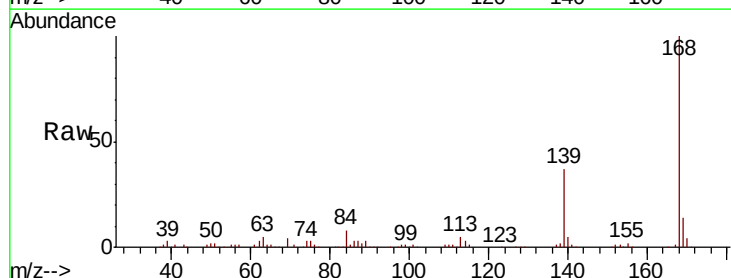
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

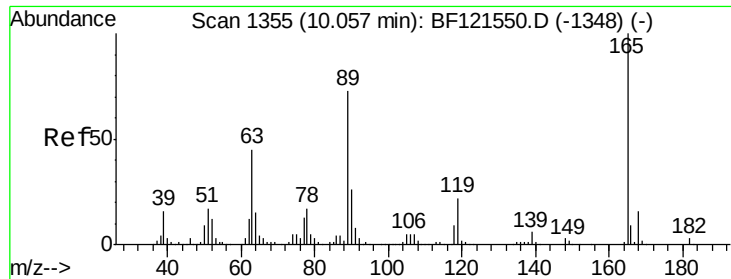
Tot Ion:168 Resp: 137918
Ion Ratio Lower Upper
168 100
139 37.3 32.6 49.0
169 13.9 11.7 17.5



#56
4-Nitrophenol
Concen: 11.168 ng
RT: 10.03 min Scan# 1351
Delta R.T. 0.08 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion:139 Resp: 51473
Ion Ratio Lower Upper
139 100
109 1.6 49.0 89.0#
65 1.7 82.5 122.5#

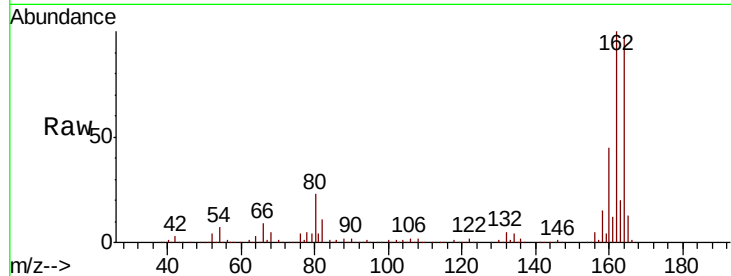




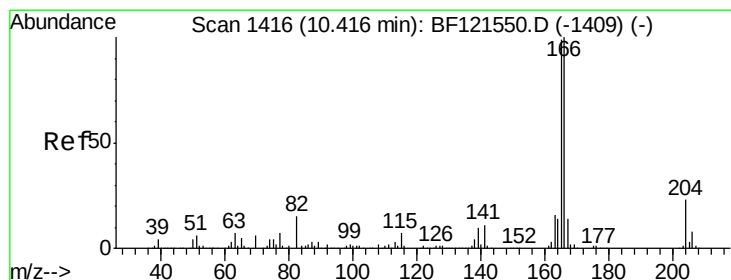
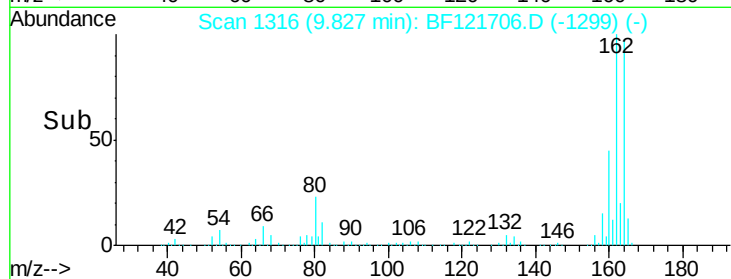
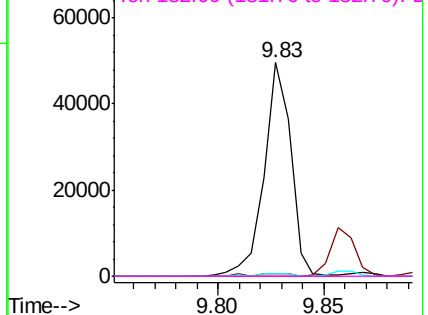
#57
 2,4-Dinitrotoluene
 Concen: 7.019 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. -0.20 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2DL

Tot Ion:165	Resp:	44052
Ion Ratio	Lower	Upper
165	100	
63	1.0	36.6 55.0#
89	1.4	57.6 86.4#
182	0.0	2.3 3.5#

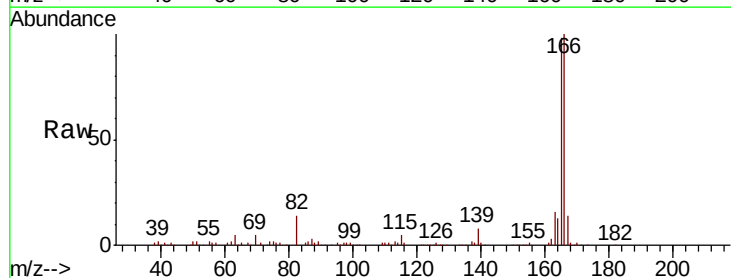


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

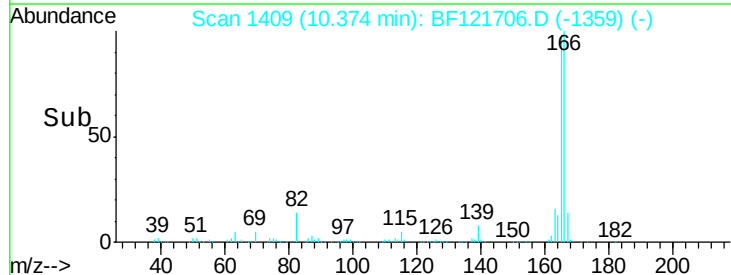
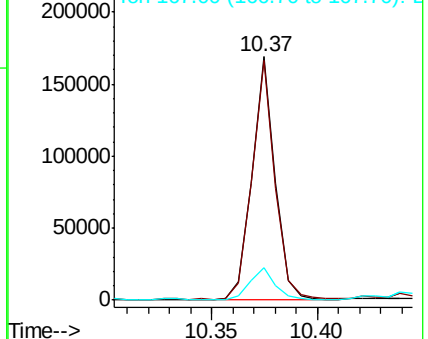


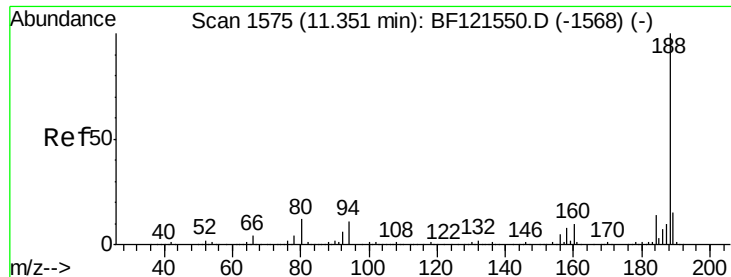
#58
 Fluorene
 Concen: 5.959 ng
 RT: 10.37 min Scan# 1409
 Delta R.T. -0.01 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Tgt Ion:166	Resp:	126974
Ion Ratio	Lower	Upper
166	100	
165	98.4	78.8 118.2
167	13.6	11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

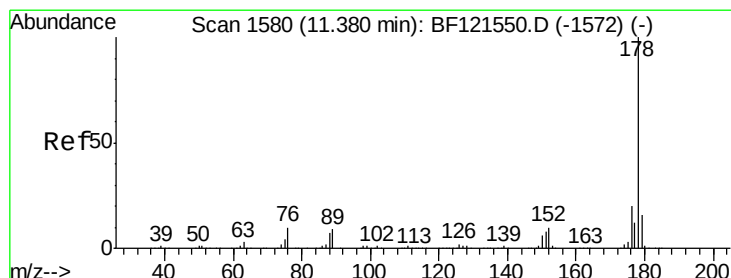
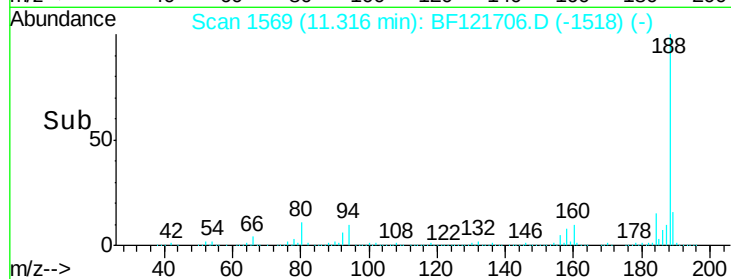
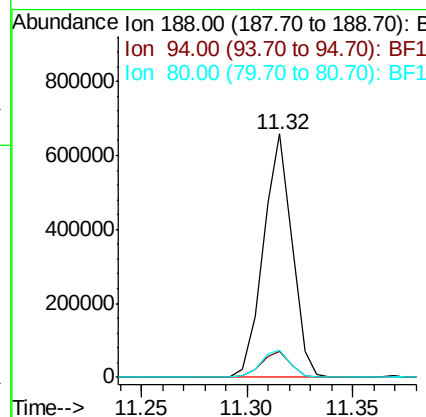
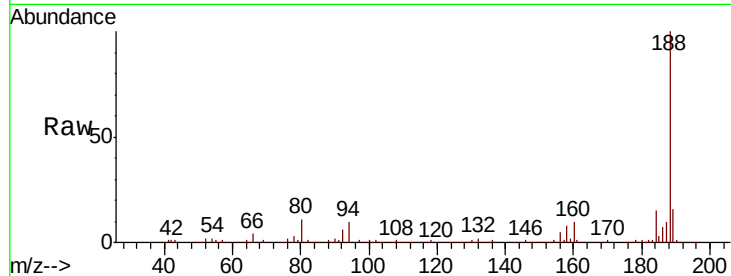




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

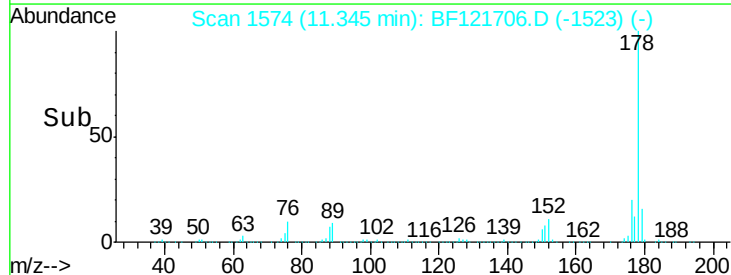
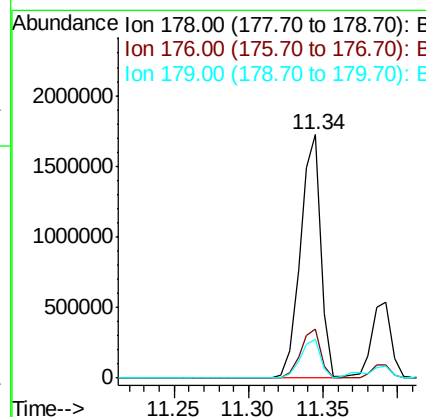
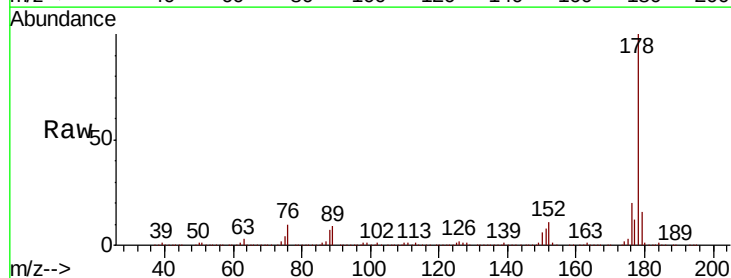
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2DL

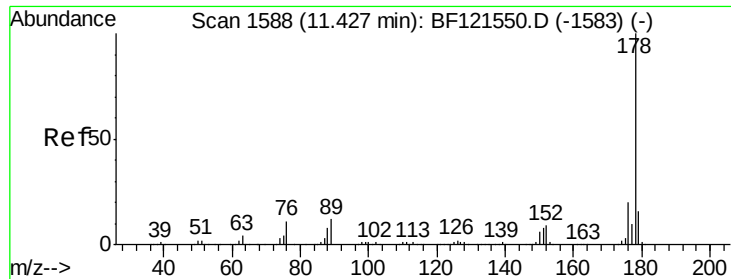
Tot Ion:188 Resp: 621013
 Ion Ratio Lower Upper
 188 100
 94 10.5 8.4 12.6
 80 11.3 9.3 13.9



#71
 Phenanthrene
 Concen: 48.828 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Tgt Ion:178 Resp: 1652127
 Ion Ratio Lower Upper
 178 100
 176 20.4 16.2 24.4
 179 15.7 12.5 18.7

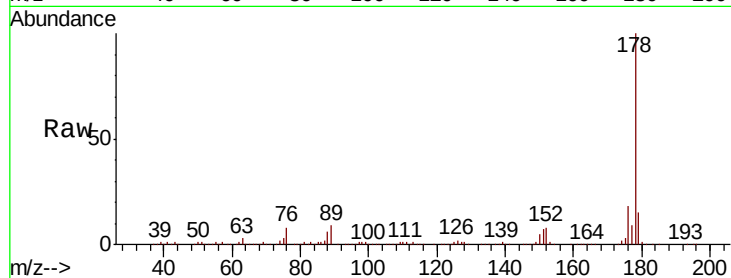




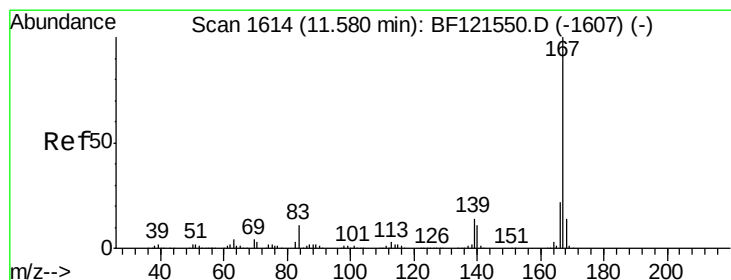
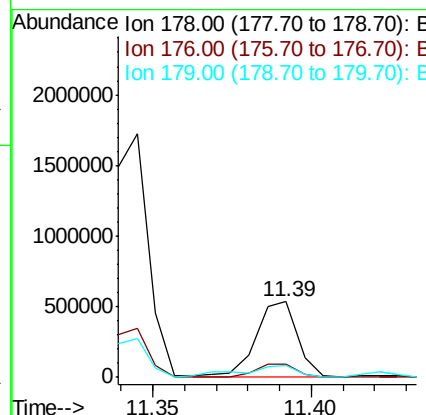
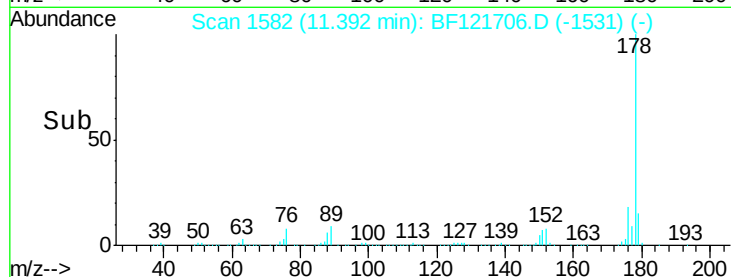
#72
 Anthracene
 Concen: 13.757 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-1-2DL

Tot Ion:178 Resp: 480336
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.6 23.4
 179 15.0 12.7 19.1

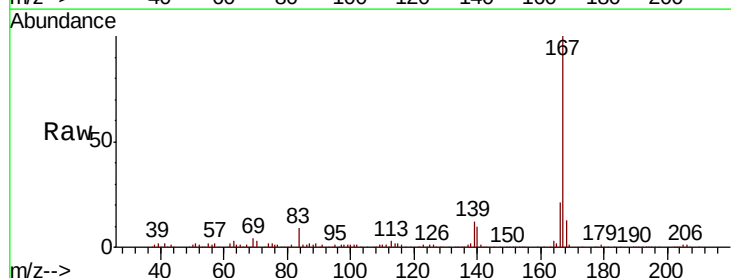


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

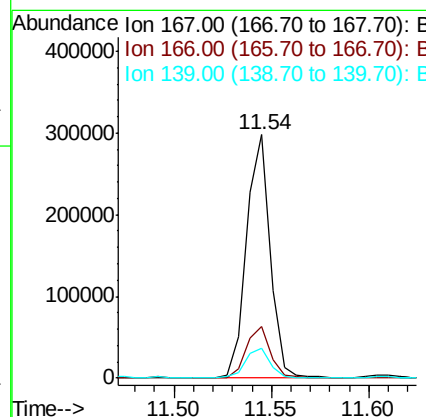
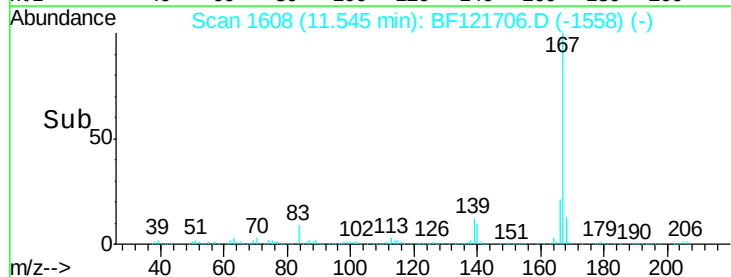


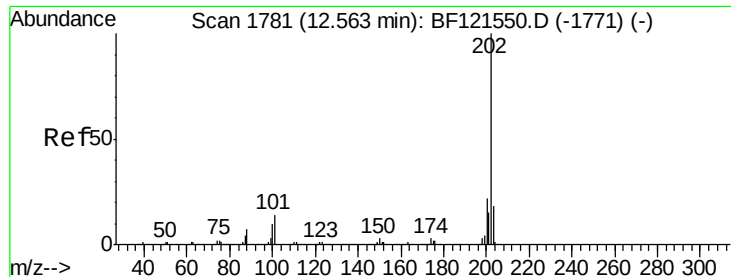
#73
 Carbazole
 Concen: 7.958 ng
 RT: 11.54 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF121706.D
 Acq: 28 Sep 2020 12:02

Tgt Ion:167 Resp: 250751
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.6 26.4
 139 12.3 10.7 16.1



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 54.469 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2DL

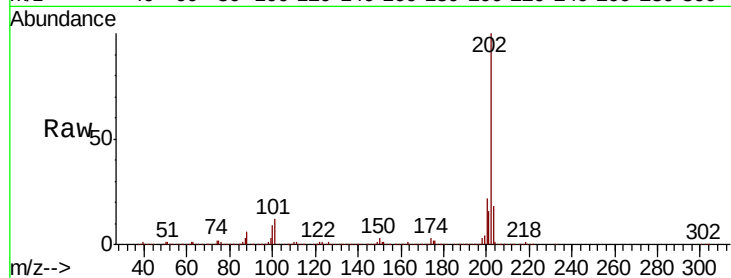
Tot Ion:202 Resp: 1967361

Ion Ratio Lower Upper

202 100

101 12.3 0.0 33.7

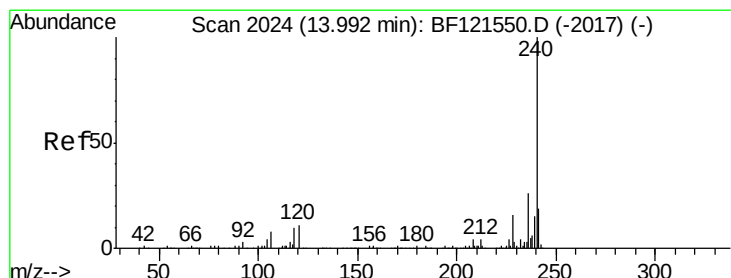
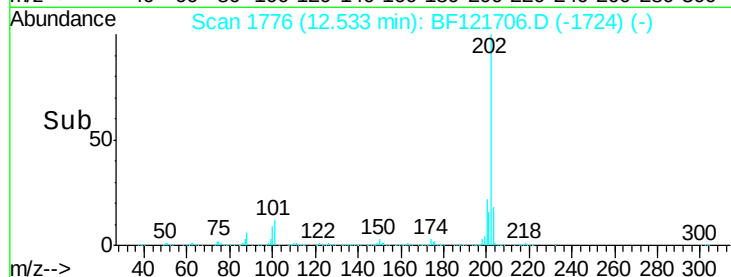
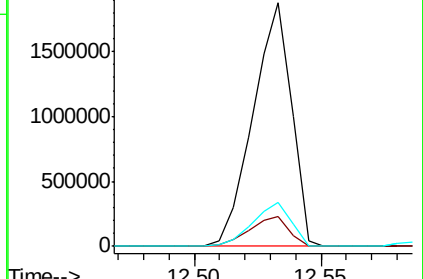
203 18.3 0.0 38.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

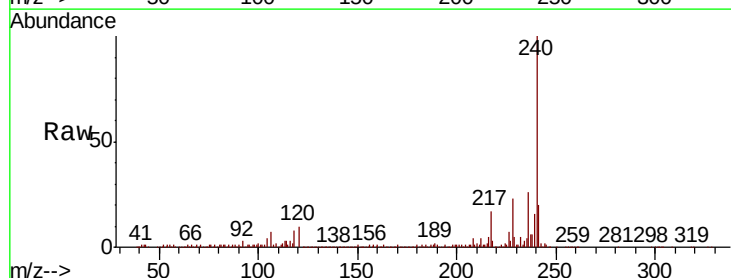
Tgt Ion:240 Resp: 464256

Ion Ratio Lower Upper

240 100

120 10.0 9.1 13.7

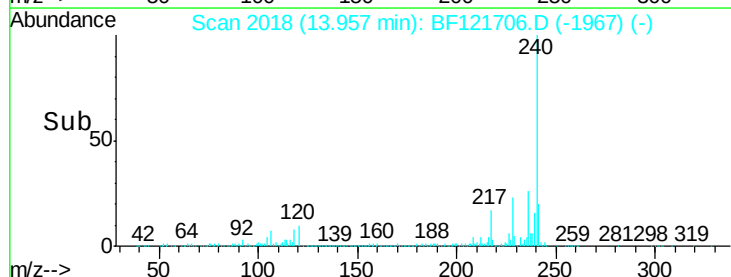
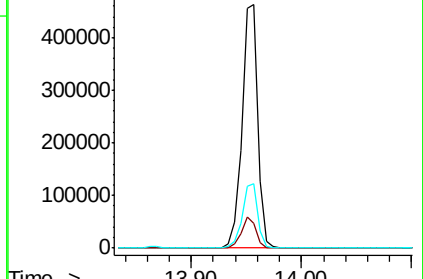
236 26.3 20.6 30.8

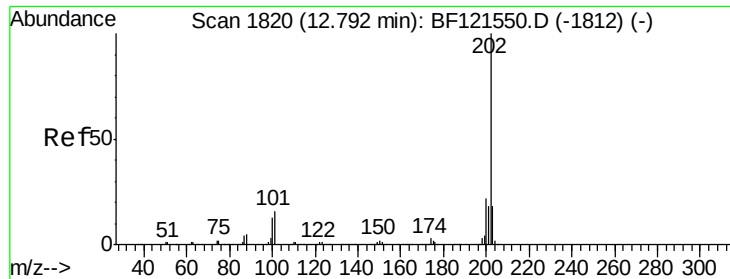


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

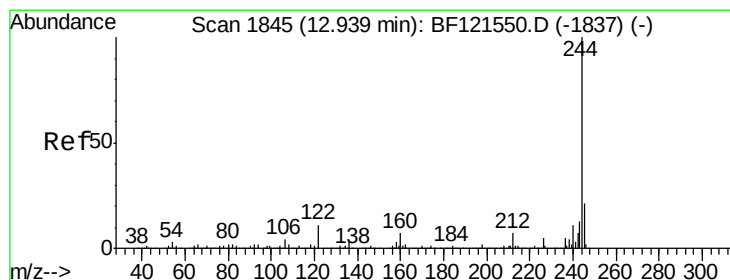
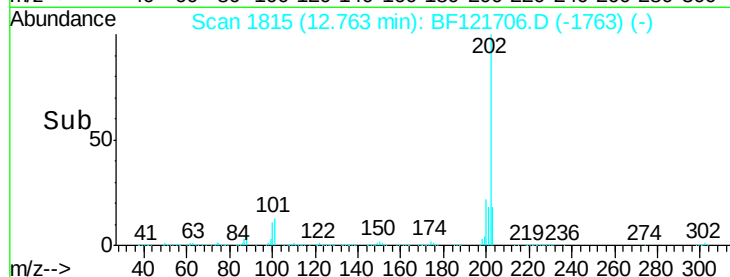
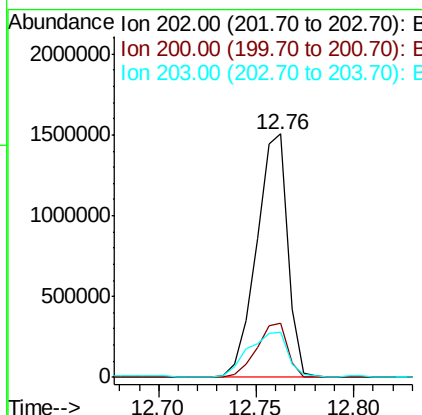
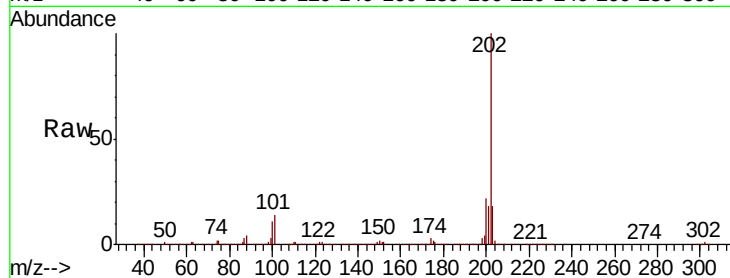




#78
Pvrene
Concen: 48.961 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

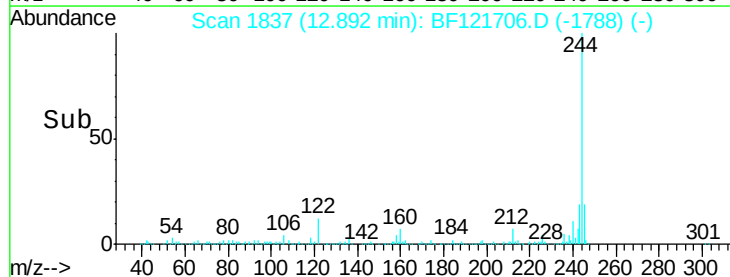
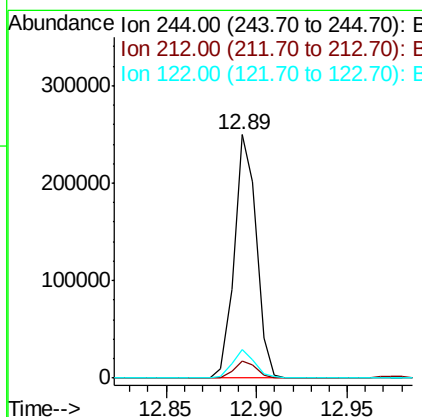
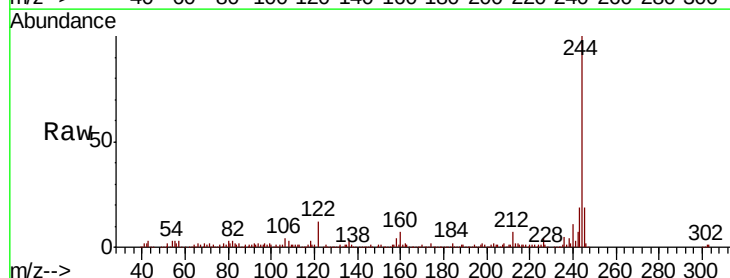
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

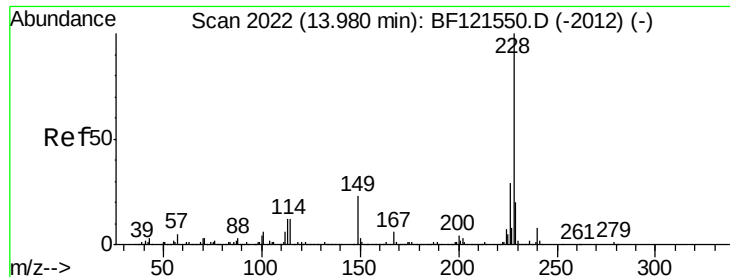
Tot Ion:202 Resp: 1660738
Ion Ratio Lower Upper
202 100
200 22.4 17.8 26.8
203 18.5 14.3 21.5



#79
Terphenyl-d14
Concen: 9.212 ng
RT: 12.89 min Scan# 1837
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion:244 Resp: 211113
Ion Ratio Lower Upper
244 100
212 6.9 5.6 8.4
122 12.0 8.0 12.0#

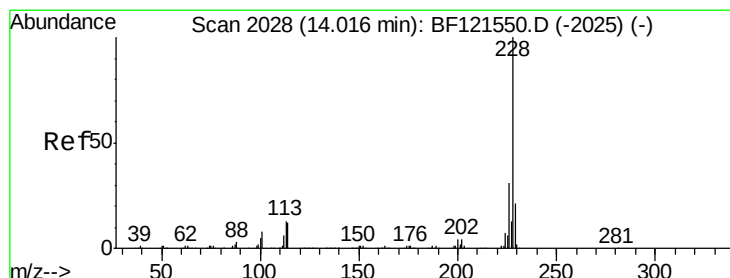
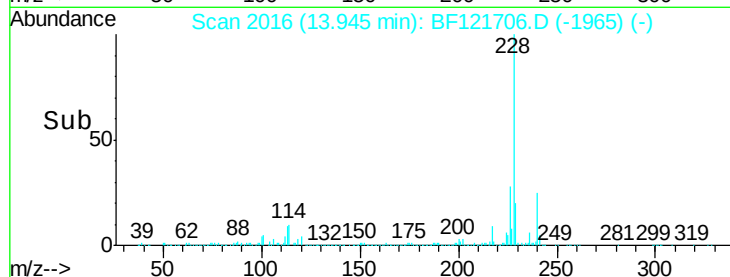
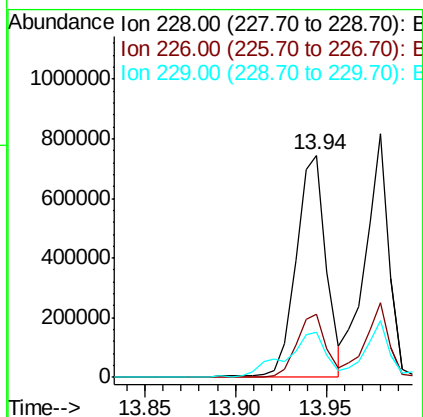
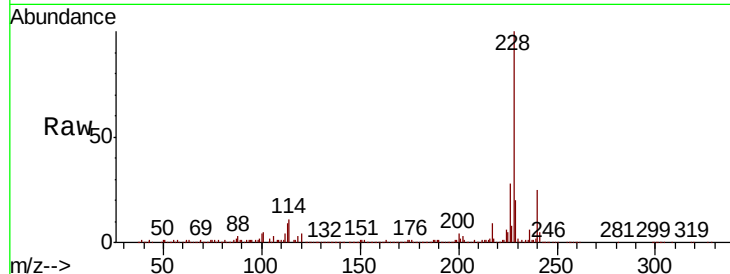




#81
Benzo(a)anthracene
Concen: 29.417 ng
RT: 13.94 min Scan# 2016
Delta R.T. -0.00 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

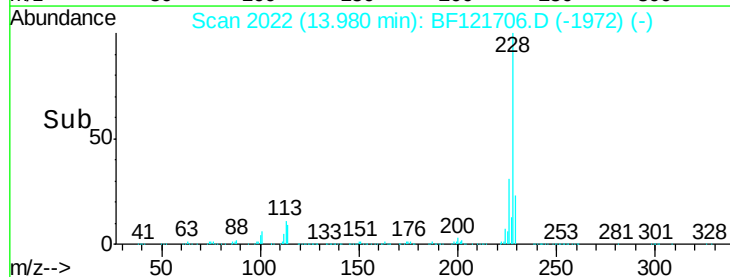
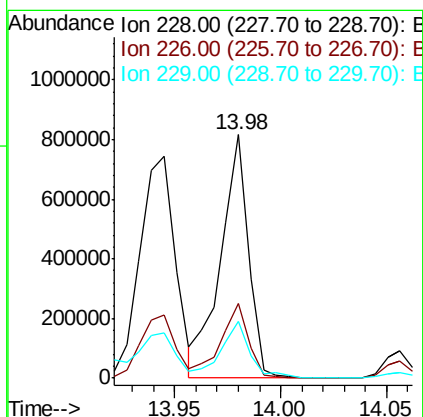
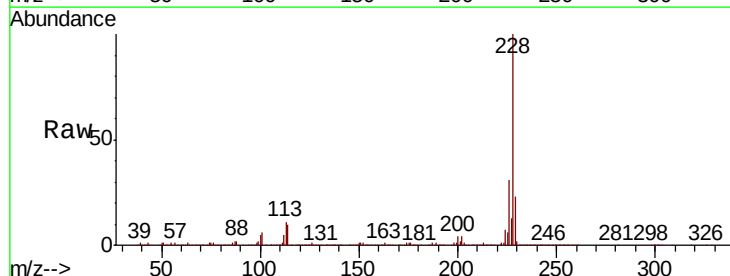
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

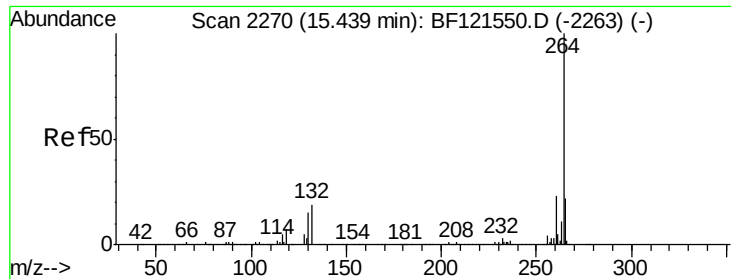
Tot Ion:228 Resp: 864014
Ion Ratio Lower Upper
228 100
226 28.4 22.5 33.7
229 20.4 16.2 24.4



#83
Chrysene
Concen: 24.937 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion:228 Resp: 741670
Ion Ratio Lower Upper
228 100
226 30.6 25.0 37.4
229 23.1 16.0 24.0

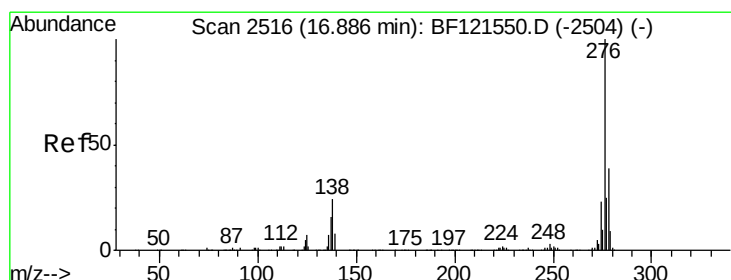
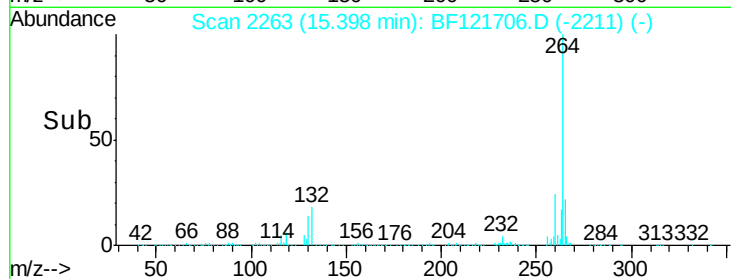
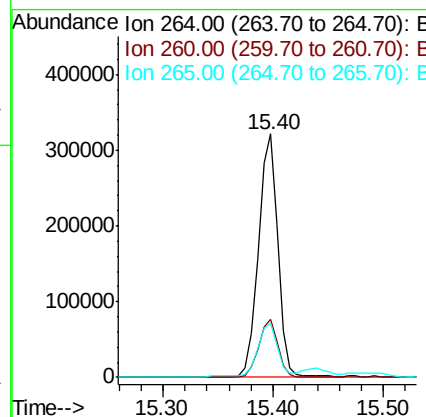
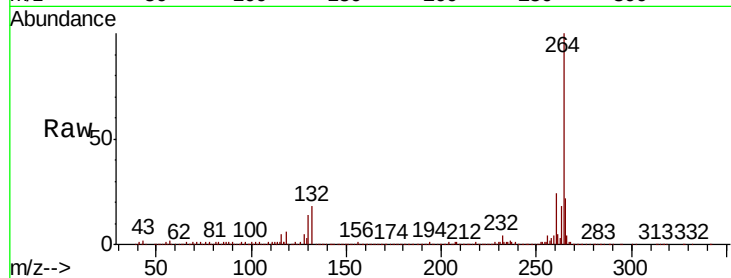




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

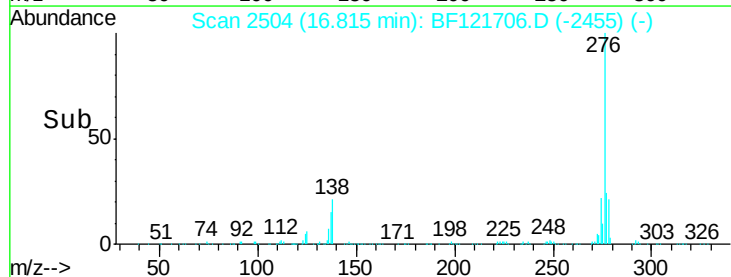
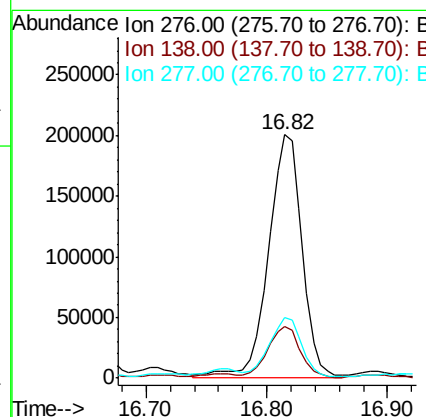
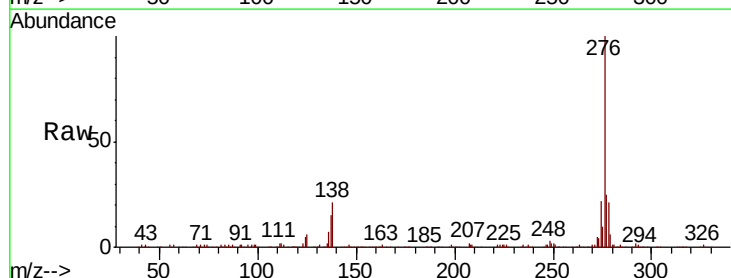
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

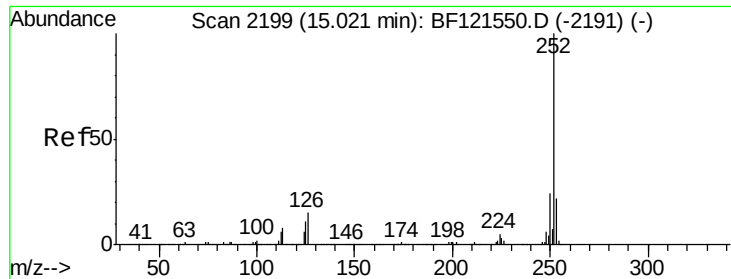
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.4	27.6
265	22.3	17.2	25.8



#87
Indeno(1,2,3-cd)pyrene
Concen: 14.805 ng
RT: 16.82 min Scan# 2504
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.5	19.5	29.3
277	23.4	20.2	30.4

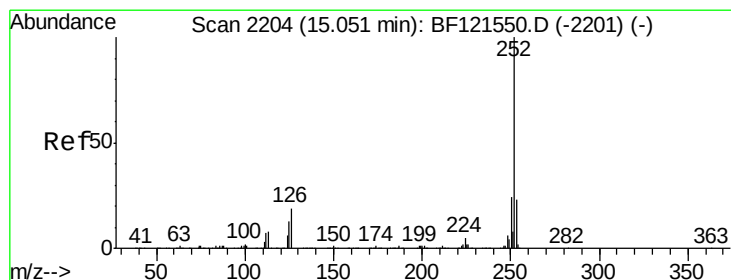
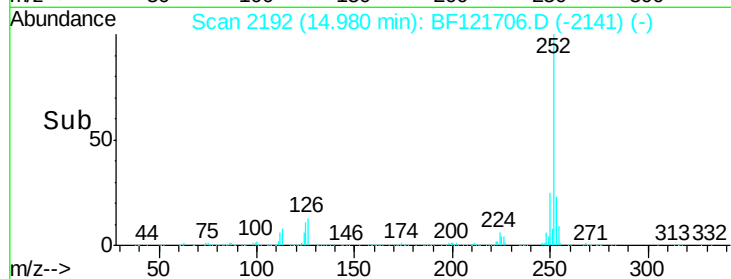
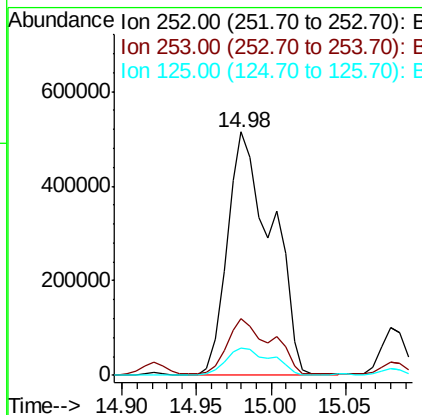
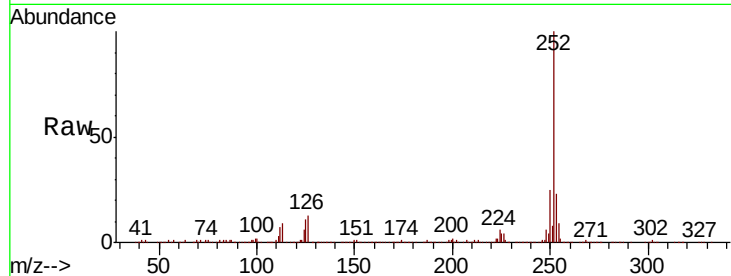




#88
Benzo(b)fluoranthene
Concen: 39.762 ng
RT: 14.98 min Scan# 2192
Delta R.T. -0.00 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

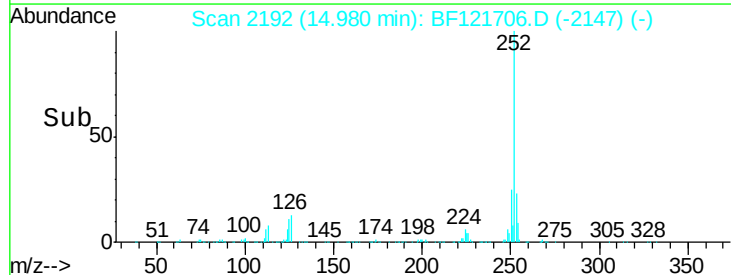
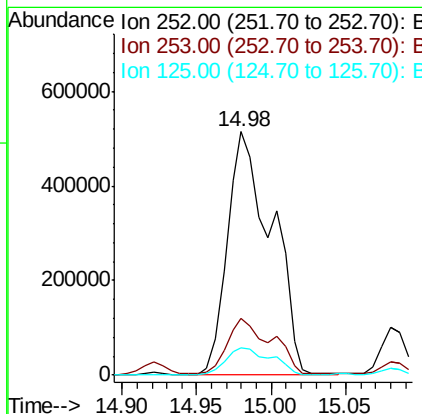
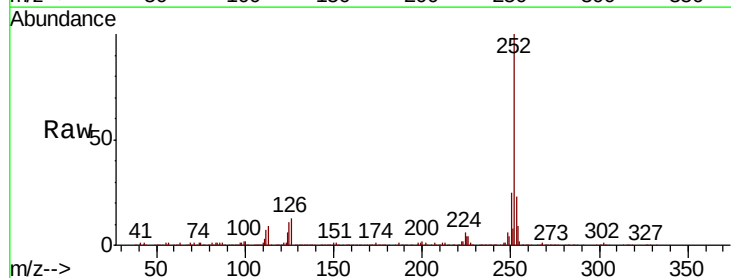
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

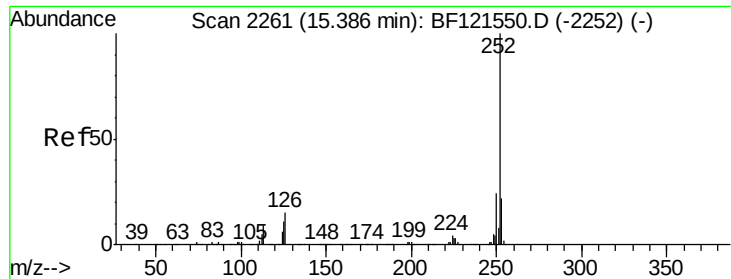
Tot Ion:252 Resp: 1060384
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 11.3 8.6 13.0



#89
Benzo(k)fluoranthene
Concen: 43.420 ng
RT: 14.98 min Scan# 2192
Delta R.T. -0.04 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion:252 Resp: 1060384
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 11.3 7.1 10.7#

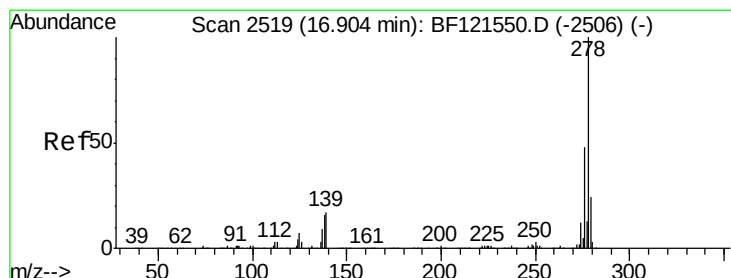
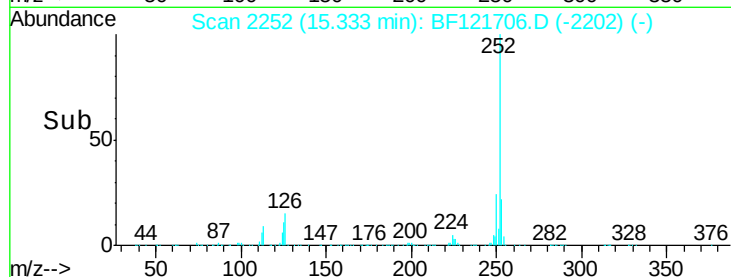
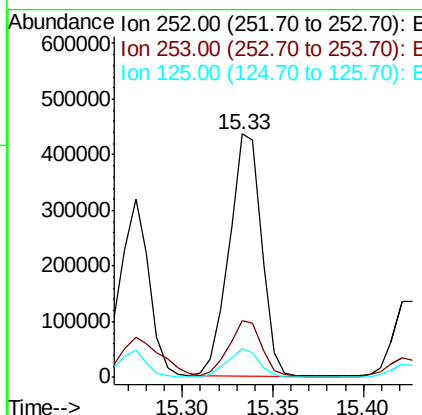
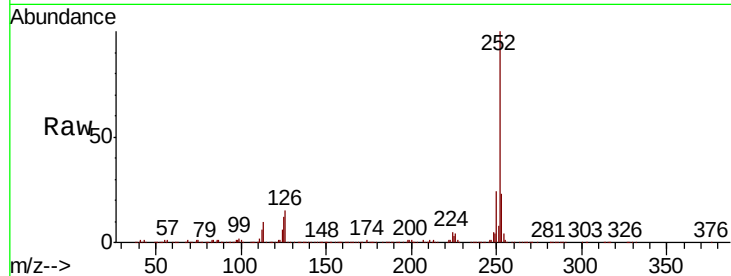




#90
Benzo(a)pyrene
Concen: 23.936 ng
RT: 15.33 min Scan# 2252
Delta R.T. -0.01 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

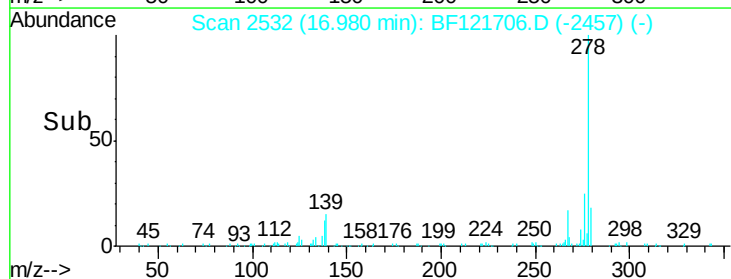
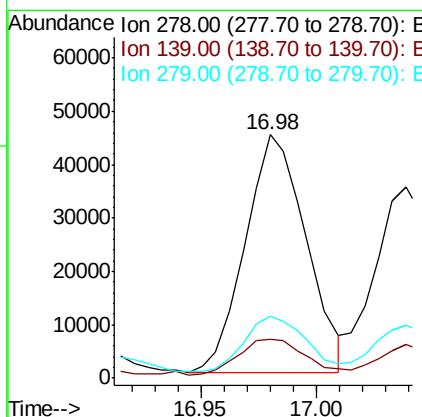
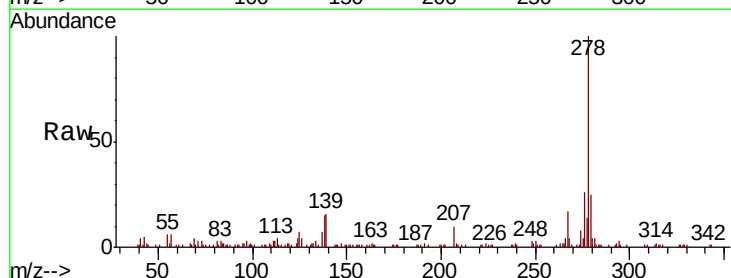
Instrument :
BNA_F
ClientSampleId :
WR-PILE-1-2DL

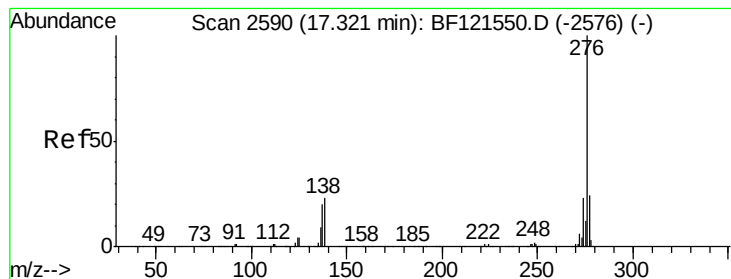
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.2
125	11.9	9.2	13.8



#91
Dibenzo(a,h)anthracene
Concen: 3.788 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.14 min
Lab File: BF121706.D
Acq: 28 Sep 2020 12:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.0	19.4
279	25.3	19.3	28.9





#92

Benzo(a,h,i)perylene

Concen: 16.308 ng

RT: 17.24 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BF121706.D

Acq: 28 Sep 2020 12:02

Instrument :

BNA_F

ClientSampleId :

WR-PILE-1-2DL

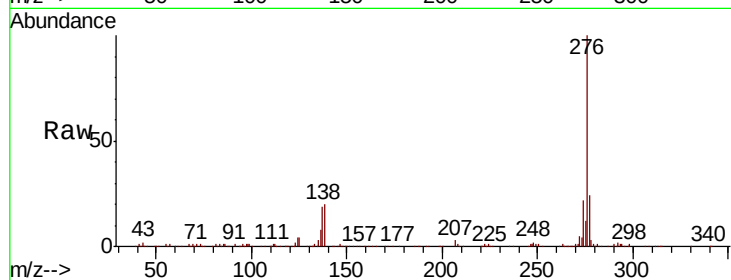
Tot Ion: 276 Resp: 346674

Ion Ratio Lower Upper

276 100

277 23.6 18.8 28.2

138 20.5 16.6 25.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

