

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121707.D
 Acq On : 28 Sep 2020 12:32
 Operator : JU/CG
 Sample : L4152-03DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

Quant Time: Sep 28 13:45:06 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	173835	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	685192	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	360743	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	677678	20.00	ng	0.00
76) Chrysene-d12	13.96	240	482921	20.00	ng	0.00
86) Perylene-d12	15.40	264	421950	20.00	ng	0.00

System Monitoring Compounds

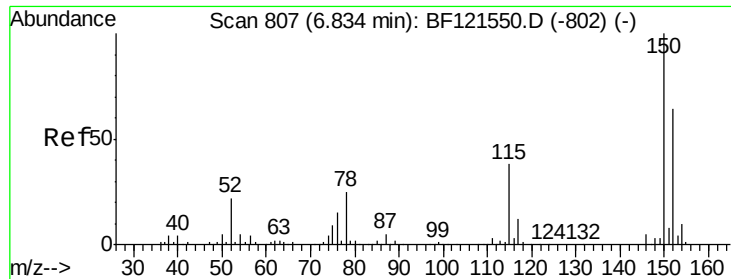
5) 2-Fluorophenol	5.42	112	1004	0.09	ng	0.00
7) Phenol-d6	6.43	99	32261	2.10	ng	-0.01
23) Nitrobenzene-d5	7.35	82	85410	6.69	ng	-0.02
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.15	172	175036	7.35	ng	0.00
79) Terphenyl-d14	12.89	244	189068	7.93	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.10	128	109548	3.029	ng	98
51) 2,6-Dinitrotoluene	9.83	165	47615	8.551	ng	# 22
52) Acenaphthene	9.86	154	139870	6.333	ng	99
55) Dibenzofuran	10.03	168	162304	5.218	ng	94
56) 4-Nitrophenol	10.03	139	60607	11.782	ng	# 7
57) 2,4-Dinitrotoluene	9.83	165	47615	6.797	ng	# 24
58) Fluorene	10.37	166	164121	6.900	ng	100
71) Phenanthrene	11.35	178	1995795	54.053	ng	100
72) Anthracene	11.39	178	565849	14.851	ng	97
73) Carbazole	11.55	167	235701	6.855	ng	98
75) Fluoranthene	12.53	202	2308637	58.573	ng	99
78) Pyrene	12.76	202	1879421	53.266	ng	99
81) Benzo(a)anthracene	13.94	228	1023750	33.508	ng	99
83) Chrysene	13.98	228	777726	25.138	ng	97
87) Indeno(1,2,3-cd)pyrene	16.82	276	424734	15.457	ng	95
88) Benzo(b)fluoranthene	14.99	252	1192255	42.267	ng	99
89) Benzo(k)fluoranthene	14.99	252	1192255	46.156	ng	# 97
90) Benzo(a)pyrene	15.34	252	616869	25.727	ng	98
91) Dibenzo(a,h)anthracene	16.99	278	93408	4.084	ng	98
92) Benzo(a,h,i)perylene	17.24	276	381840	16.982	ng	98

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

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ALS Vial : 7 Sample Multiplier: 1

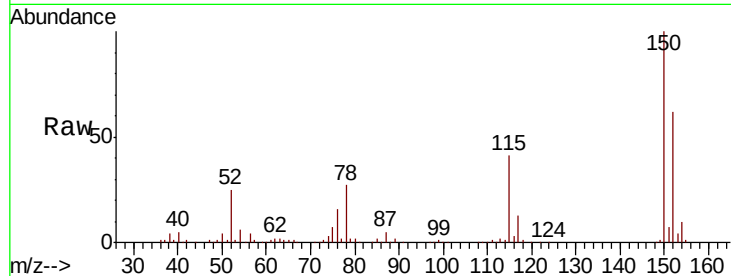


#1

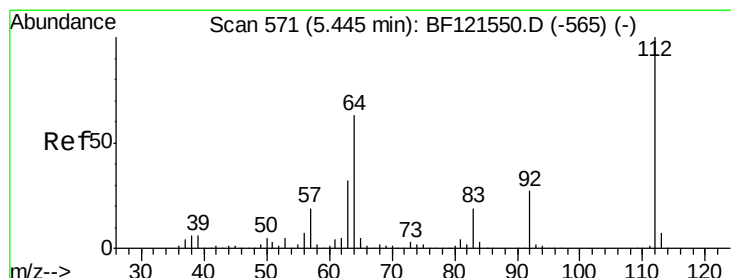
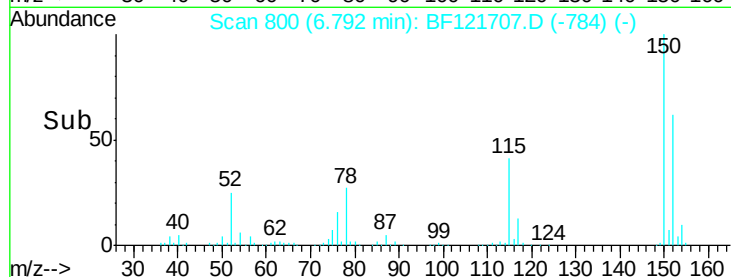
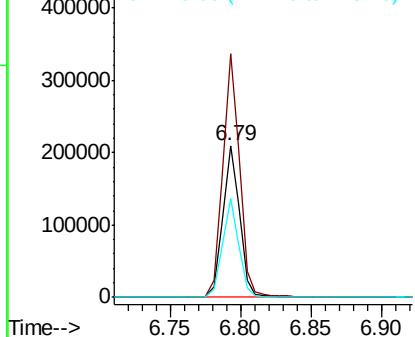
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion:152 Resp: 173835
Ion Ratio Lower Upper
152 100
150 160.4 122.6 184.0
115 65.0 47.1 70.7



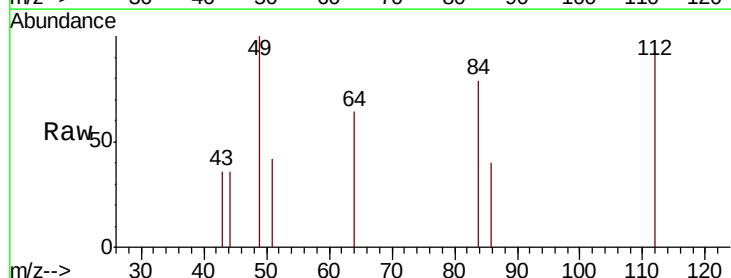
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



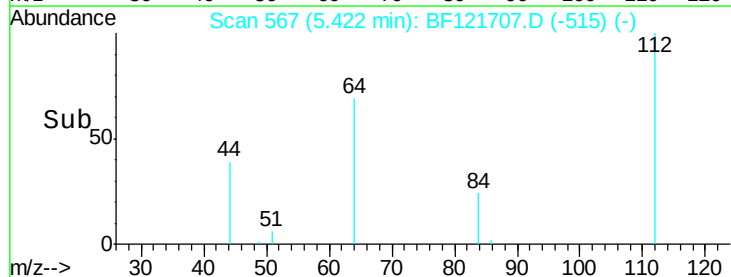
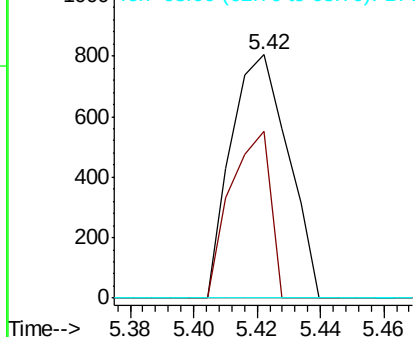
#5

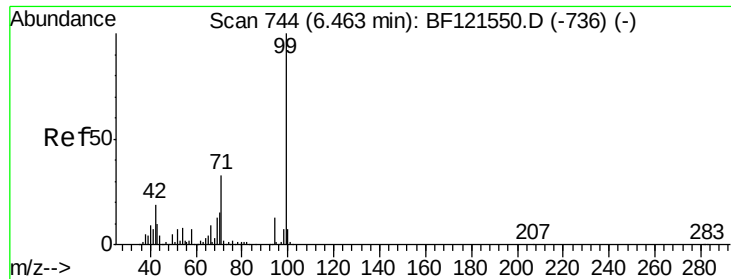
2-Fluorophenol
Concen: 0.086 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion:112 Resp: 1004
Ion Ratio Lower Upper
112 100
64 68.7 49.5 74.3
63 0.0 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: 2.102 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

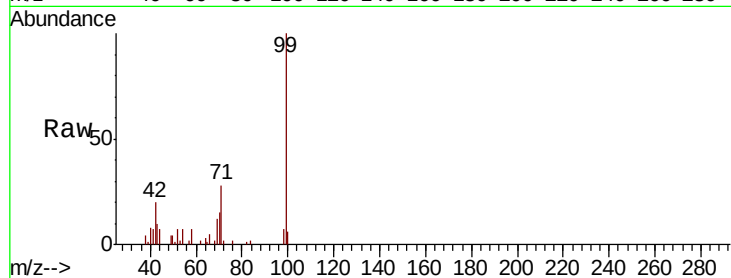
Tot Ion: 99 Resp: 32261

Ion Ratio Lower Upper

99 100

42 19.6 16.1 24.1

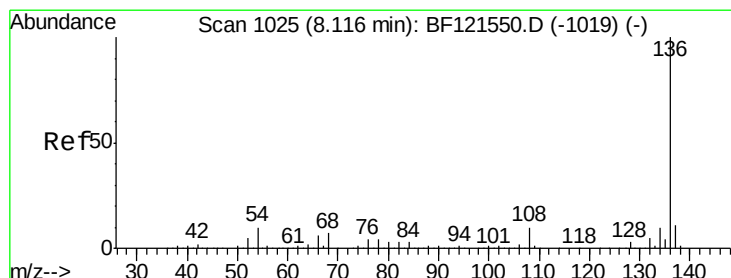
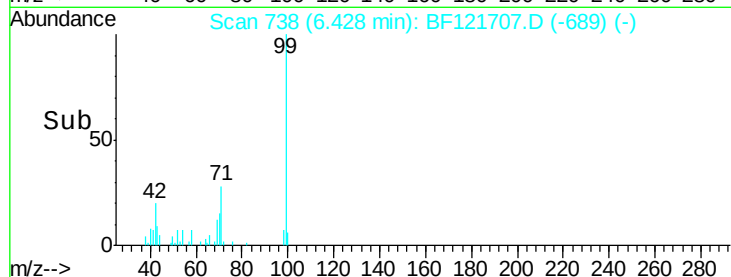
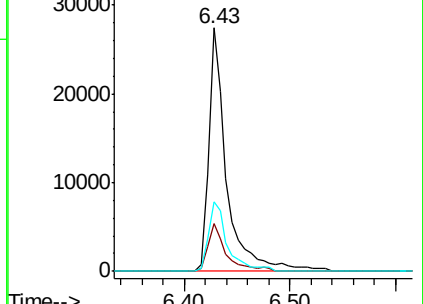
71 28.4 27.6 41.4



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: BF121707.D

Acq: 28 Sep 2020 12:32

Tgt Ion: 136 Resp: 685192

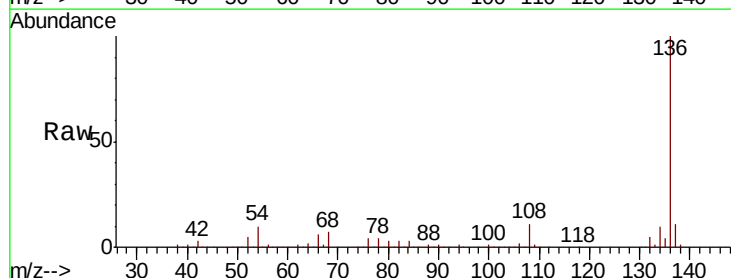
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 10.0 7.5 11.3

68 7.2 5.5 8.3

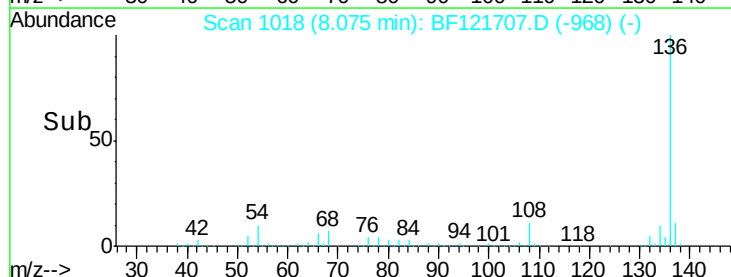
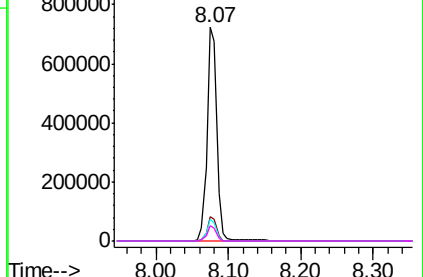


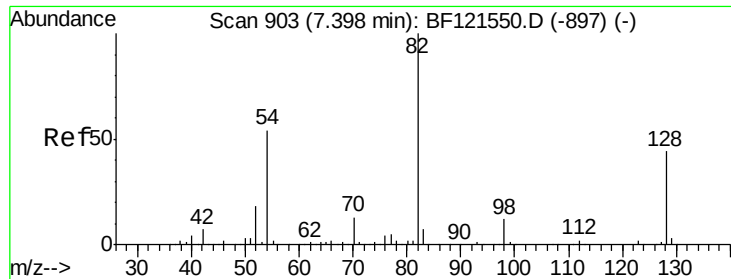
Abundance Ion 136.00 (135.70 to 136.70): E

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

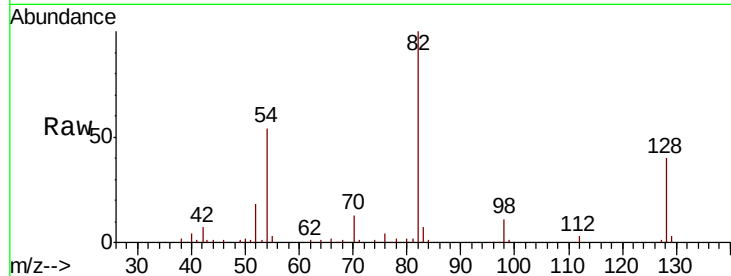




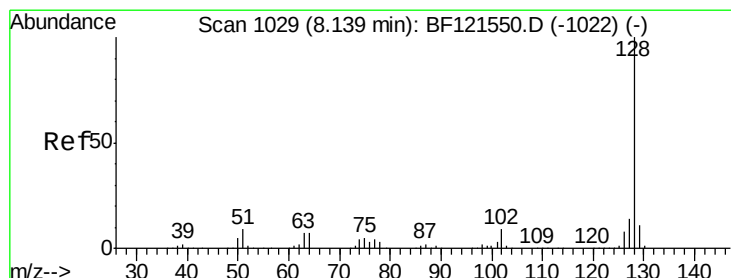
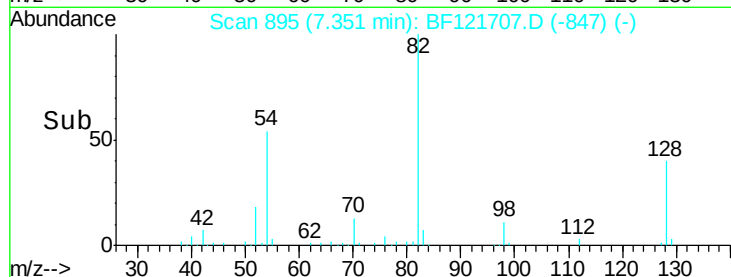
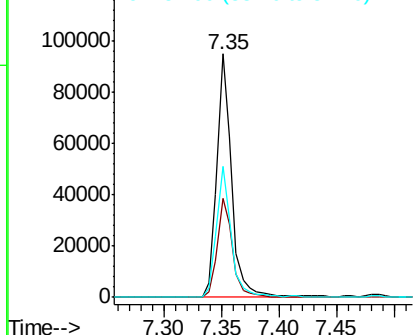
#23
Nitrobenzene-d5
Concen: 6.693 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

Tot Ion: 82 Resp: 85410
Ion Ratio Lower Upper
82 100
128 40.5 35.8 53.6
54 53.9 42.6 63.8

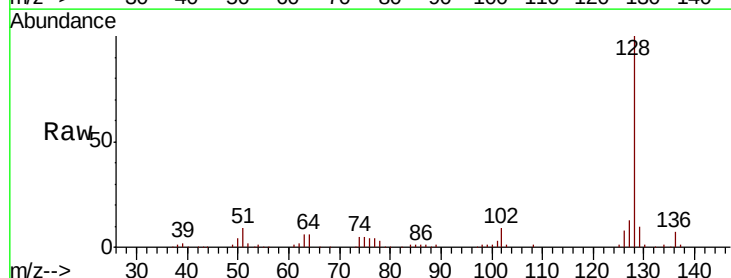


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

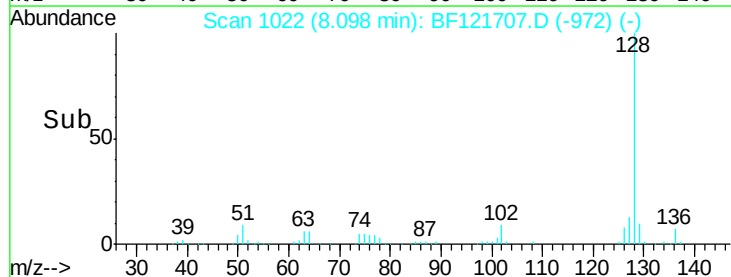
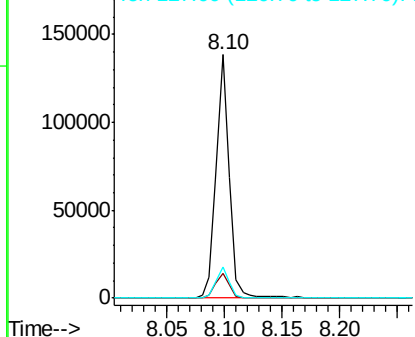


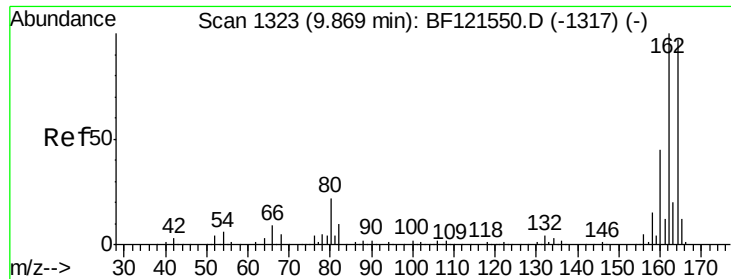
#31
Naphthalene
Concen: 3.029 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion: 128 Resp: 109548
Ion Ratio Lower Upper
128 100
129 10.4 9.1 13.7
127 13.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

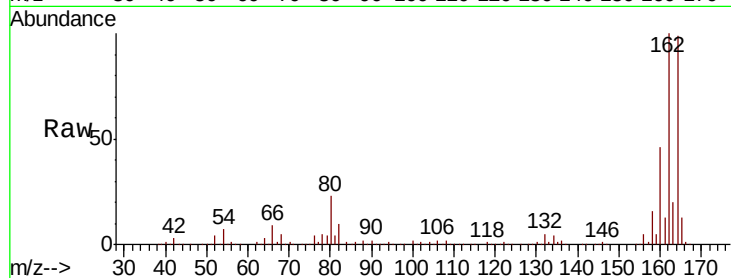
Tot Ion:164 Resp: 360743

Ion Ratio Lower Upper

164 100

162 101.0 82.1 123.1

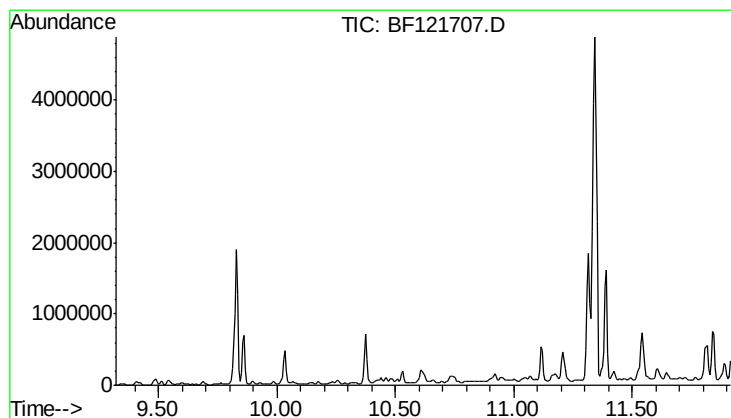
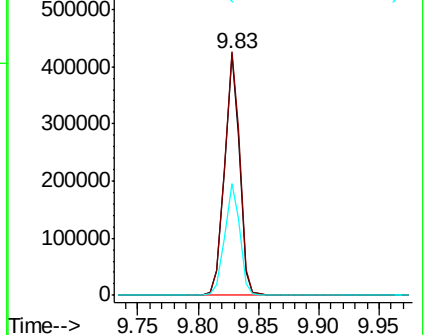
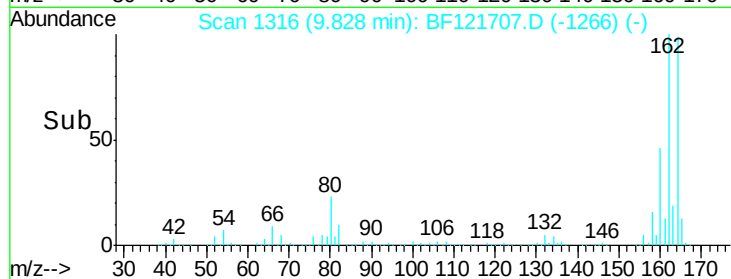
160 46.1 36.8 55.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.62 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

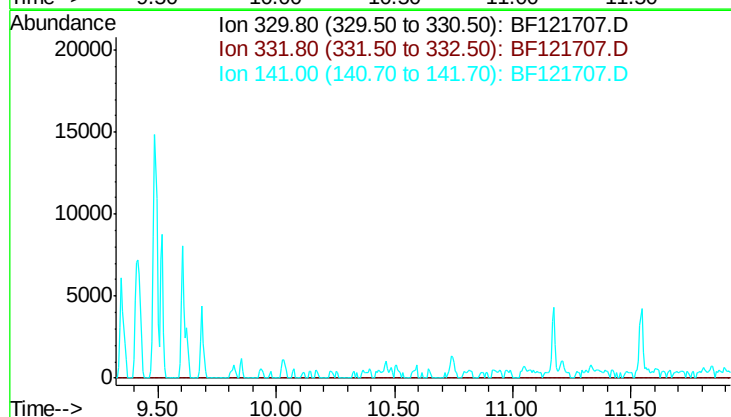
Tgt Ion: 330

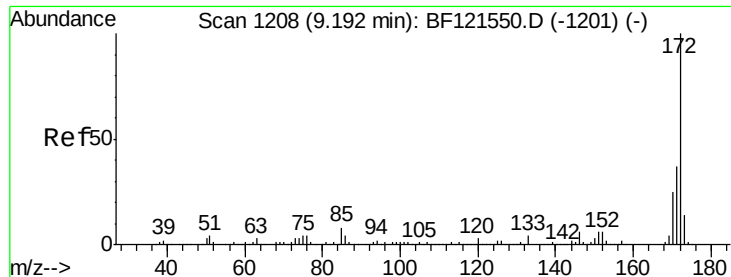
Sig Exp Ratio

330 100

332 95.0

141 27.8

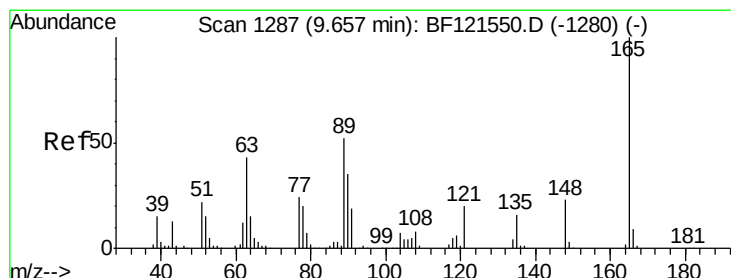
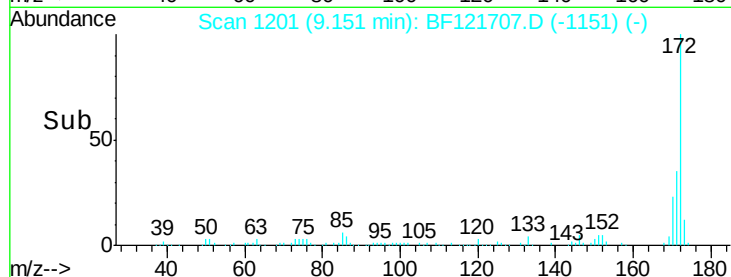
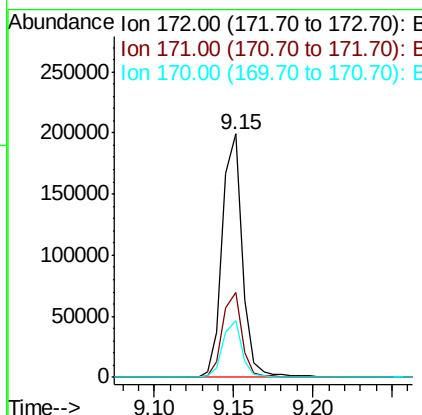
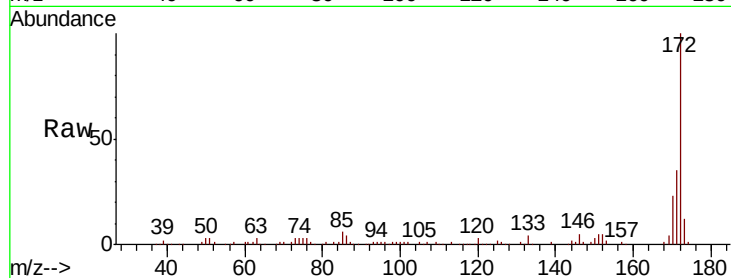




#45
2-Fluorobiphenyl
Concen: 7.349 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

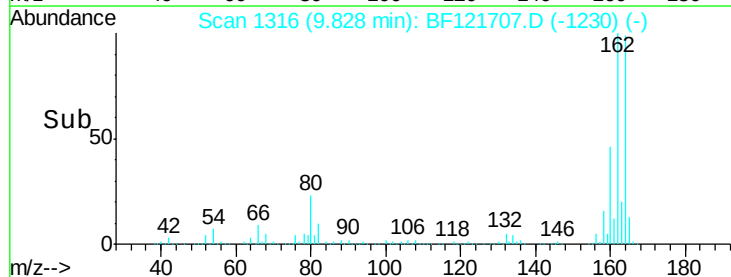
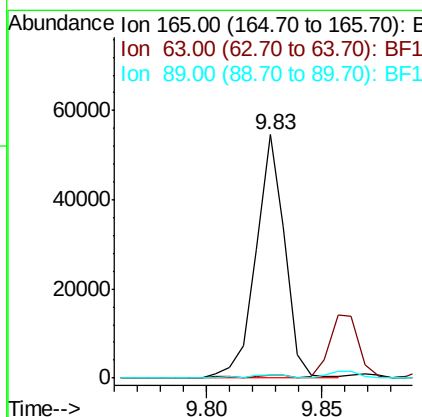
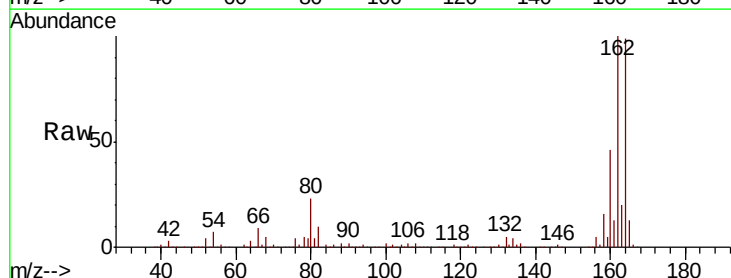
Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

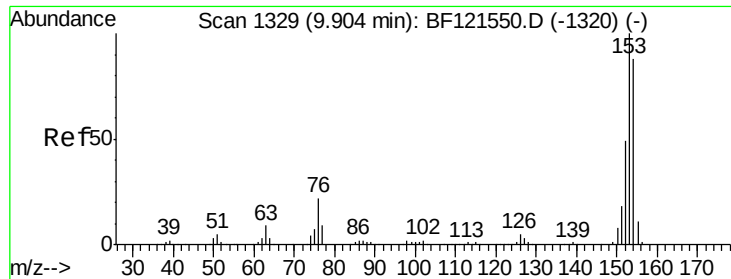
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.6
170	23.2	19.5	29.3



#51
2,6-Dinitrotoluene
Concen: 8.551 ng
RT: 9.83 min Scan# 1316
Delta R.T. 0.21 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	49.8	74.6#
89	1.3	48.2	72.2#





#52

Acenaphthene

Concen: 6.333 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

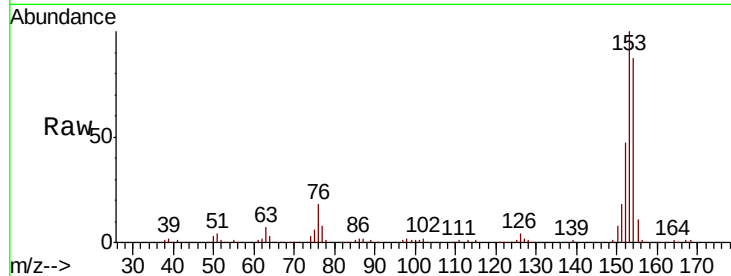
Tot Ion:154 Resp: 139870

Ion Ratio Lower Upper

154 100

153 114.8 91.7 137.5

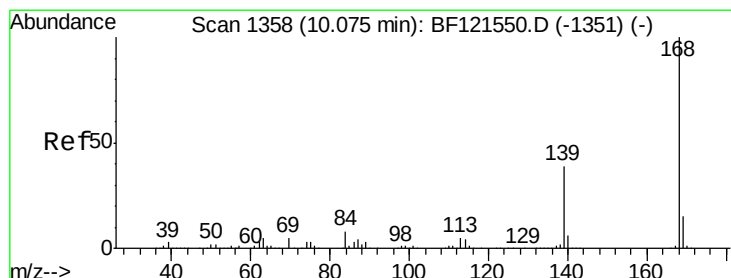
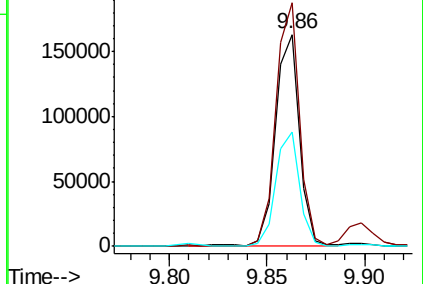
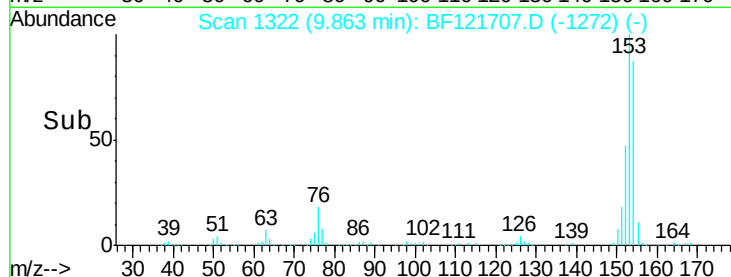
152 54.0 44.0 66.0



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: 5.218 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

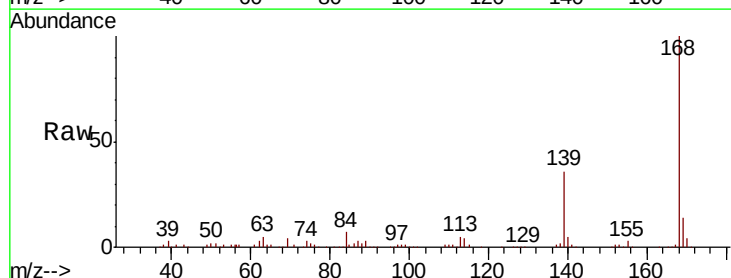
Tgt Ion:168 Resp: 162304

Ion Ratio Lower Upper

168 100

139 36.4 32.6 49.0

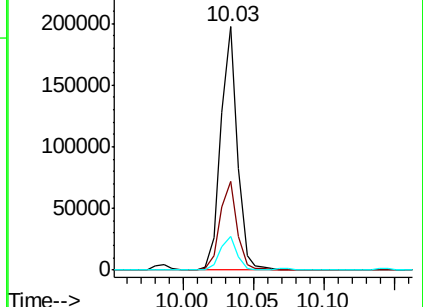
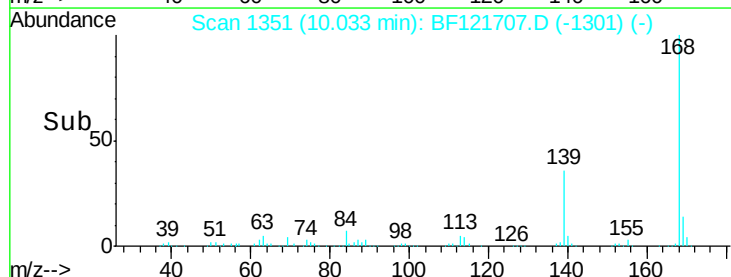
169 14.0 11.7 17.5

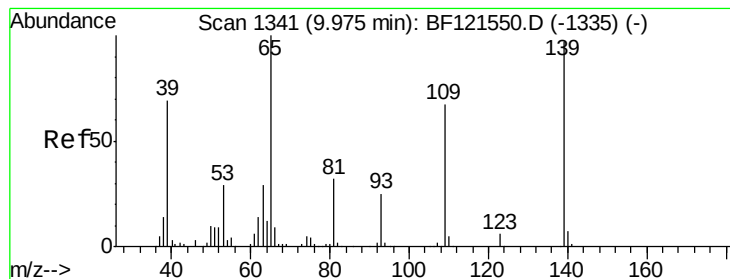


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

4-Nitrophenol

Concen: 11.782 ng

RT: 10.03 min Scan# 1351

Delta R.T. 0.08 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

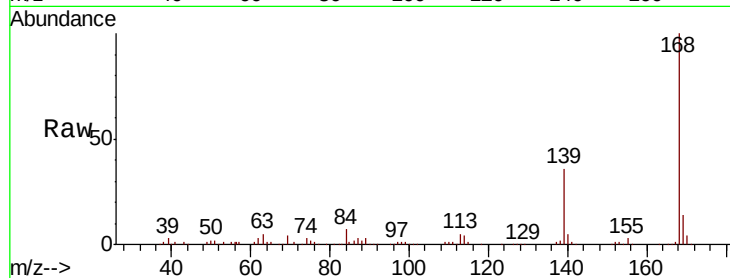
Tot Ion:139 Resp: 60607

Ion Ratio Lower Upper

139 100

109 1.7 49.0 89.0#

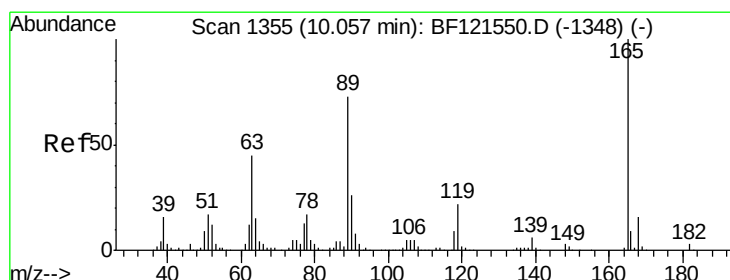
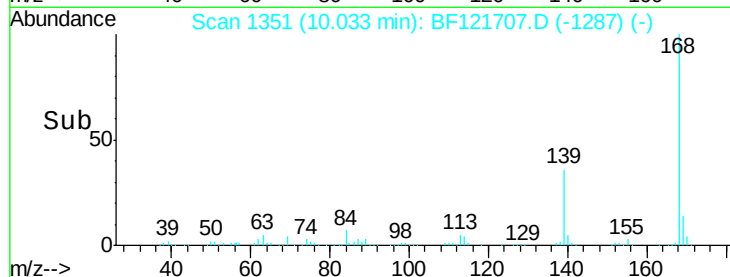
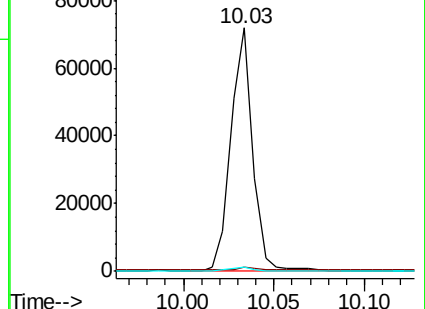
65 1.6 82.5 122.5#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.797 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.20 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Tgt Ion:165 Resp: 47615

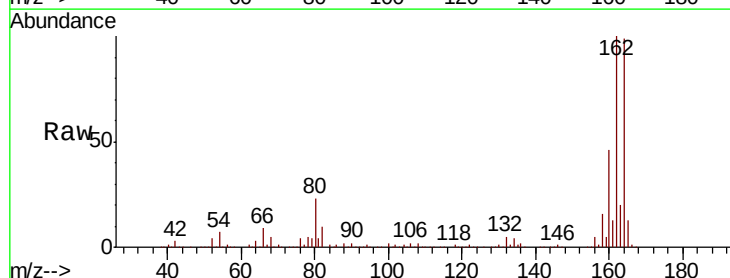
Ion Ratio Lower Upper

165 100

63 1.4 36.6 55.0#

89 1.3 57.6 86.4#

182 0.0 2.3 3.5#

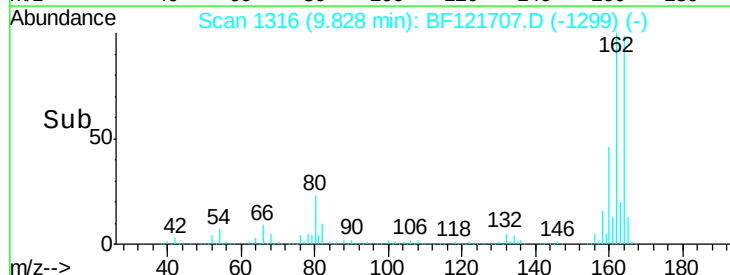
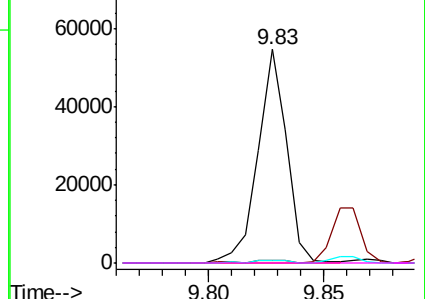


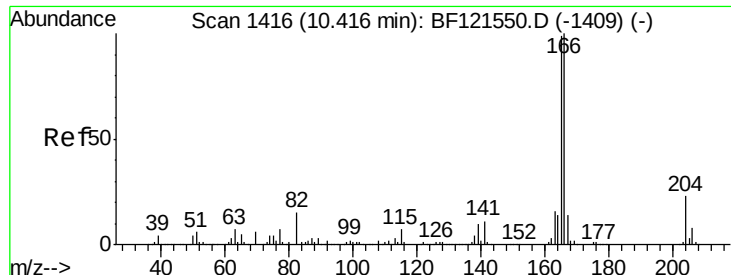
Abundance Ion 165.00 (164.70 to 165.70): E

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

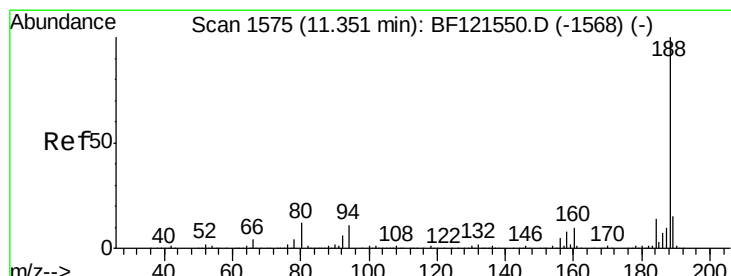
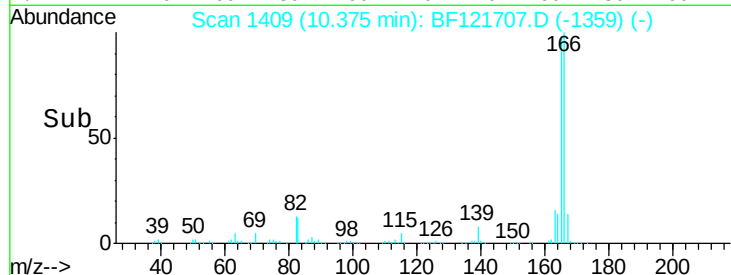
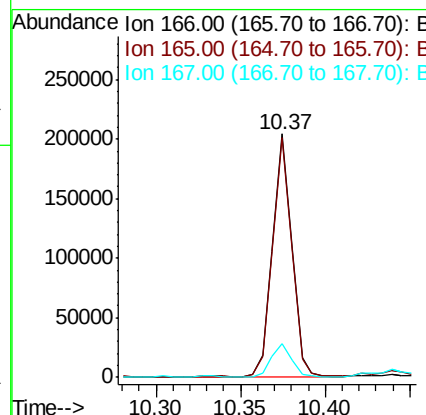
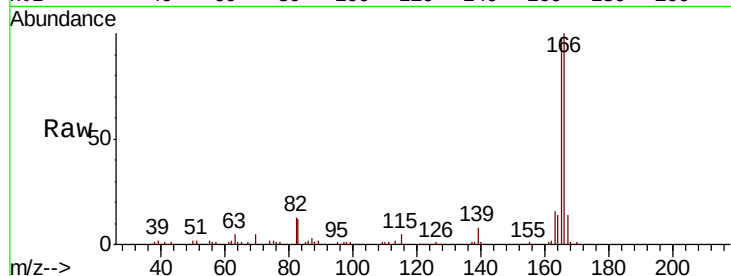




#58
 Fluorene
 Concen: 6.900 ng
 RT: 10.37 min Scan# 1409
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

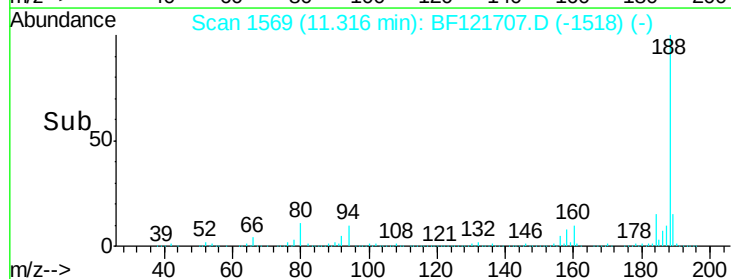
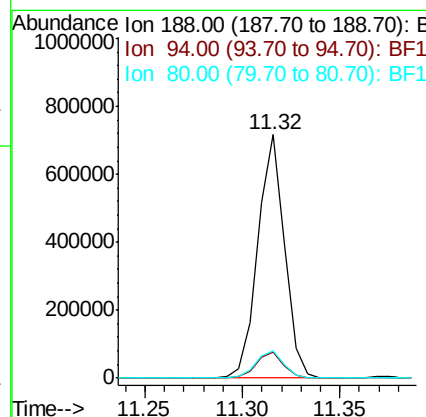
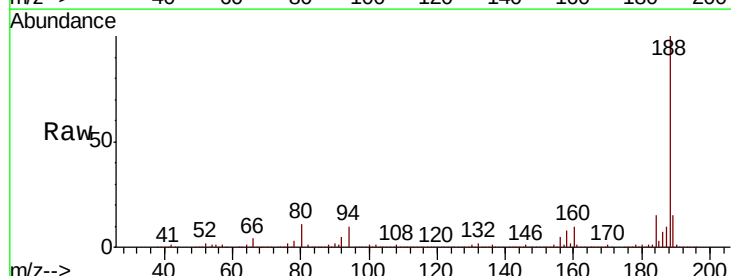
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

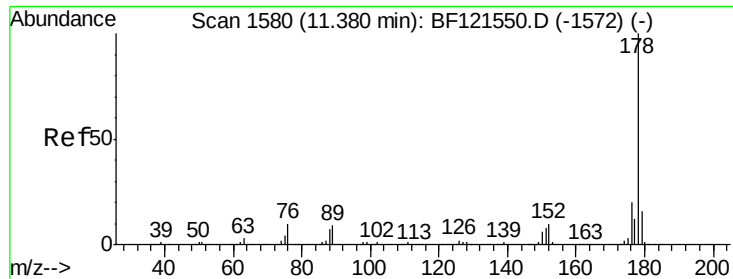
Tot Ion:166 Resp: 164121
 Ion Ratio Lower Upper
 166 100
 165 98.4 78.8 118.2
 167 13.7 11.0 16.4



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion:188 Resp: 677678
 Ion Ratio Lower Upper
 188 100
 94 10.5 8.4 12.6
 80 11.1 9.3 13.9

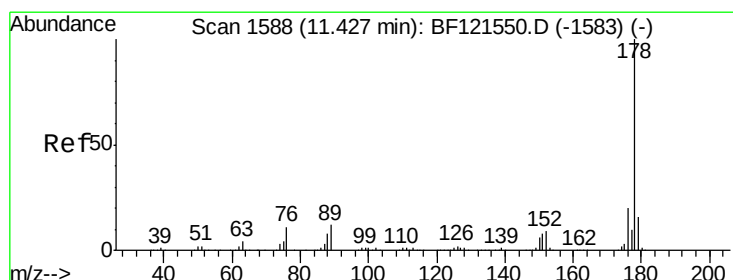
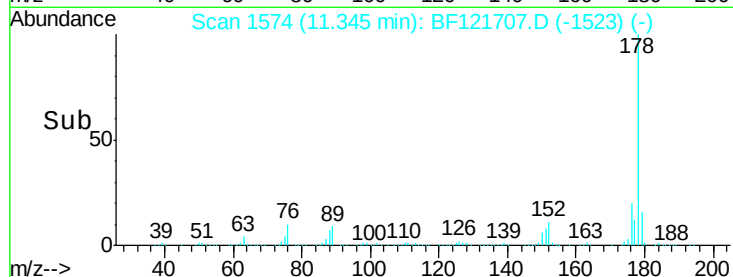
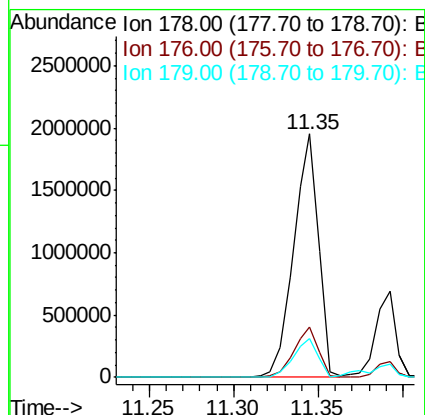
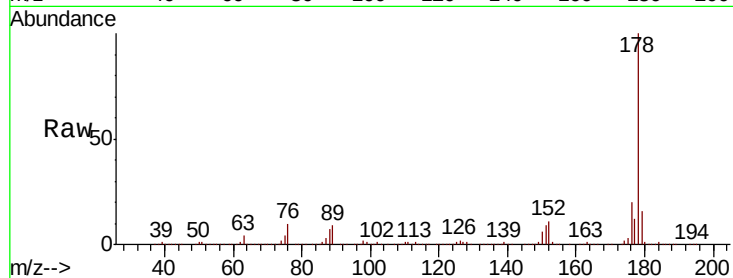




#71
Phenanthrene
Concen: 54.053 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

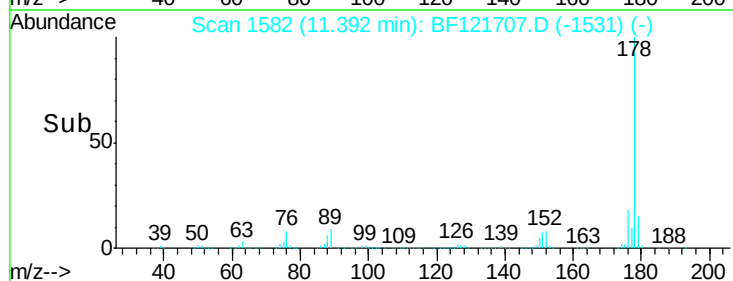
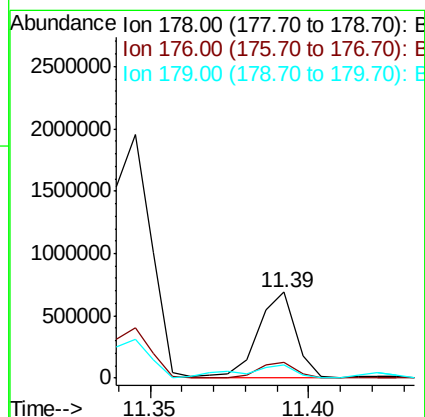
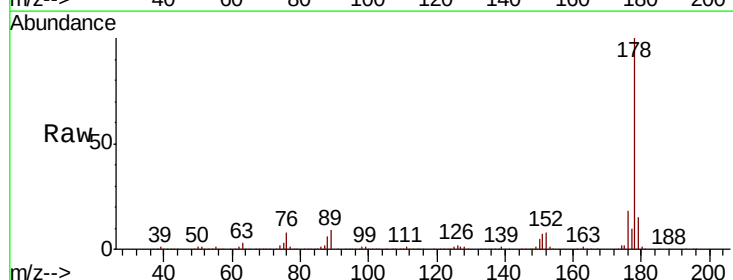
Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

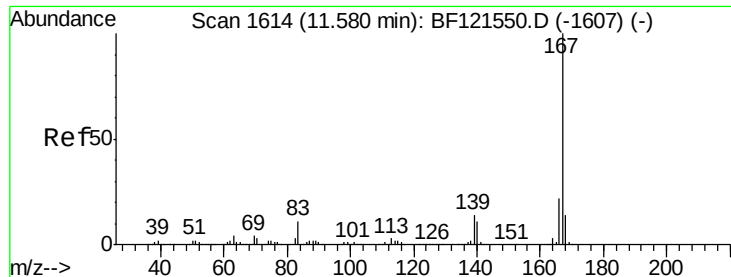
Tot Ion:178 Resp: 1995795
Ion Ratio Lower Upper
178 100
176 20.5 16.2 24.4
179 15.9 12.5 18.7



#72
Anthracene
Concen: 14.851 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.00 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion:178 Resp: 565849
Ion Ratio Lower Upper
178 100
176 18.1 15.6 23.4
179 15.0 12.7 19.1

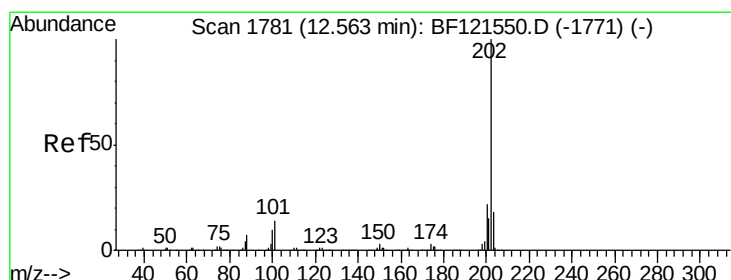
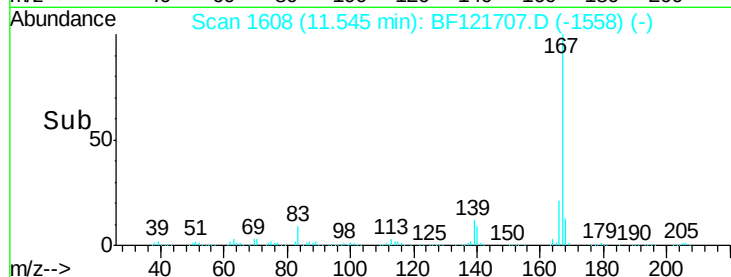
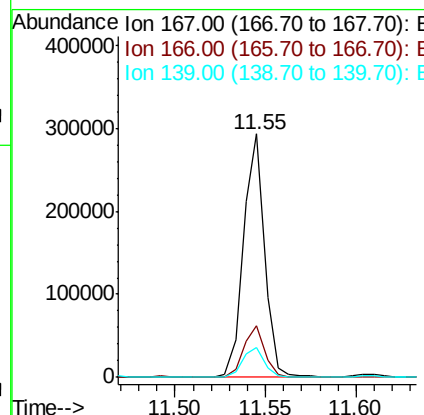
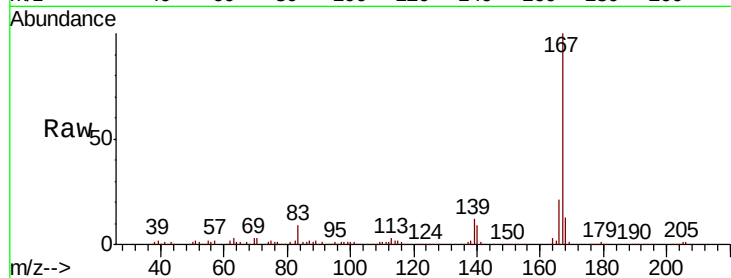




#73
 Carbazole
 Concen: 6.855 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

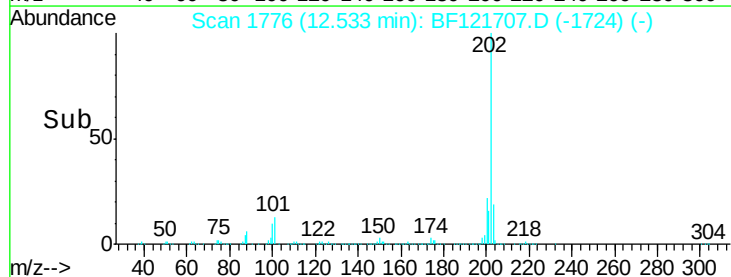
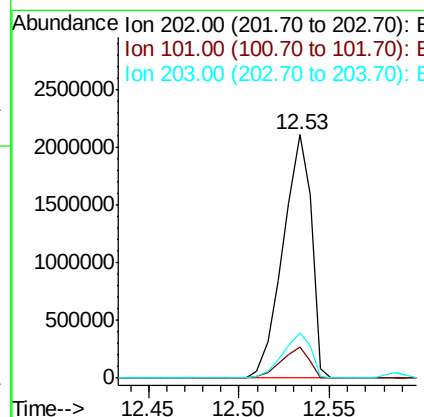
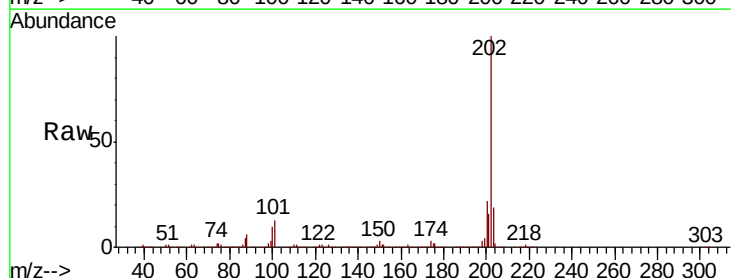
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

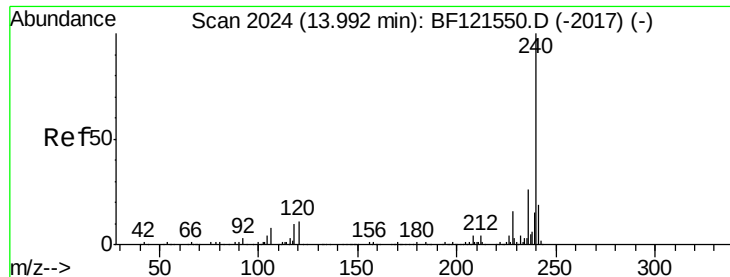
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	12.4	10.7	16.1



#75
 Fluoranthene
 Concen: 58.573 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	33.7
203	18.5	0.0	38.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.00 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

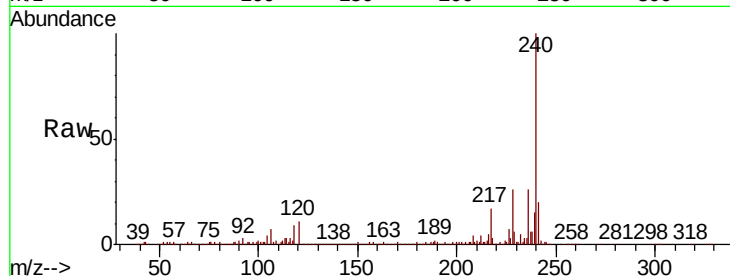
Tot Ion:240 Resp: 482921

Ion Ratio Lower Upper

240 100

120 10.8 9.1 13.7

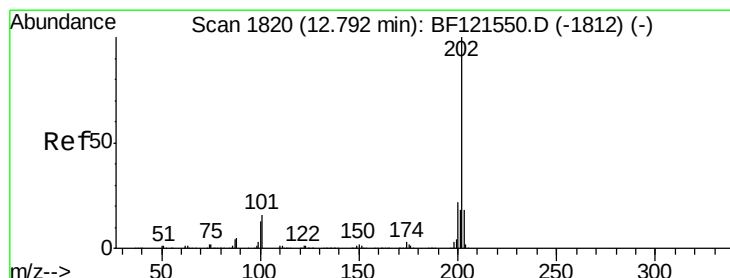
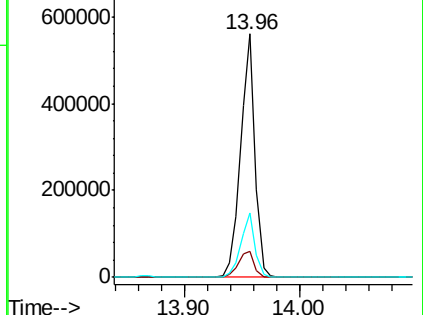
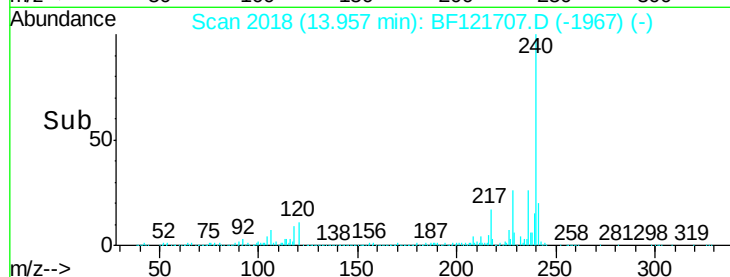
236 26.2 20.6 30.8



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

Pyrene

Concen: 53.266 ng

RT: 12.76 min Scan# 1815

Delta R.T. 0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

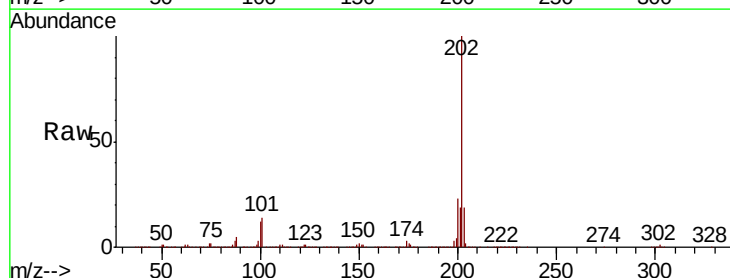
Tgt Ion:202 Resp: 1879421

Ion Ratio Lower Upper

202 100

200 22.6 17.8 26.8

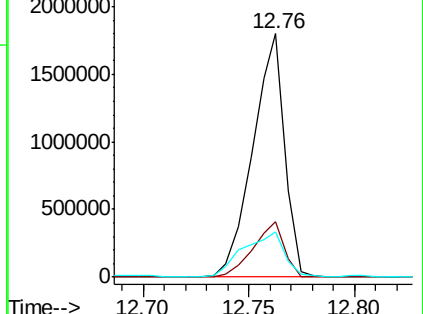
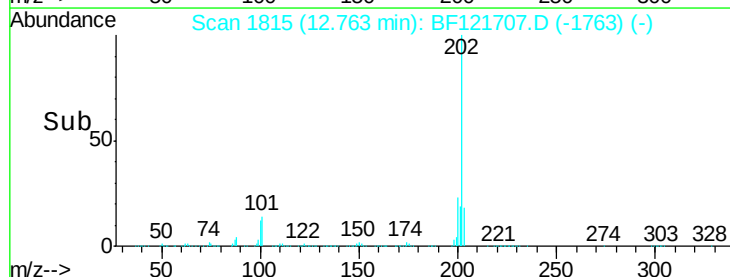
203 18.6 14.3 21.5

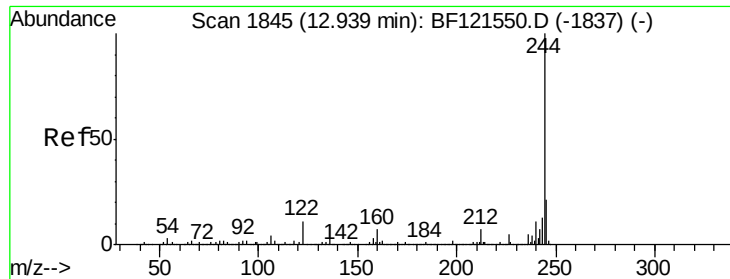


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 7.932 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

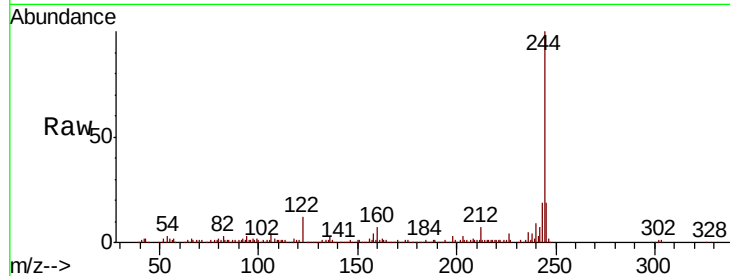
Tot Ion:244 Resp: 189068

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

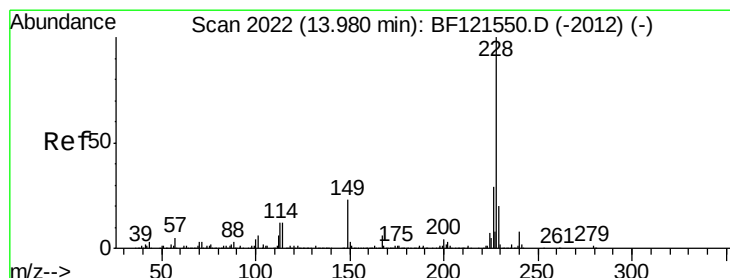
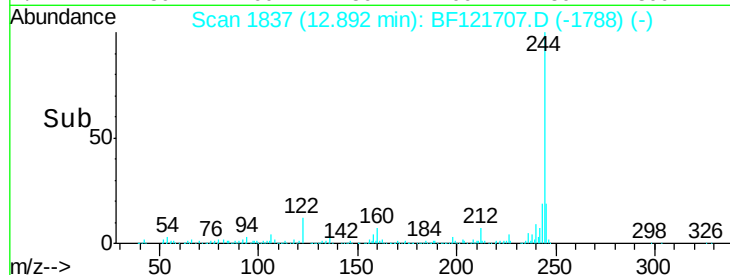
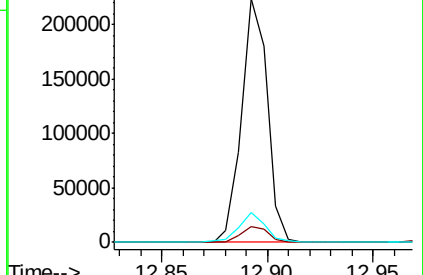
122 12.2 8.0 12.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 33.508 ng

RT: 13.94 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

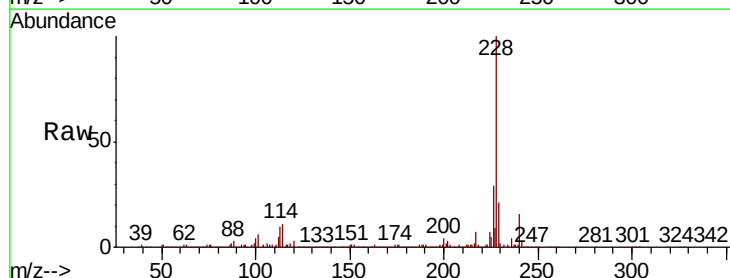
Tgt Ion:228 Resp: 1023750

Ion Ratio Lower Upper

228 100

226 29.0 22.5 33.7

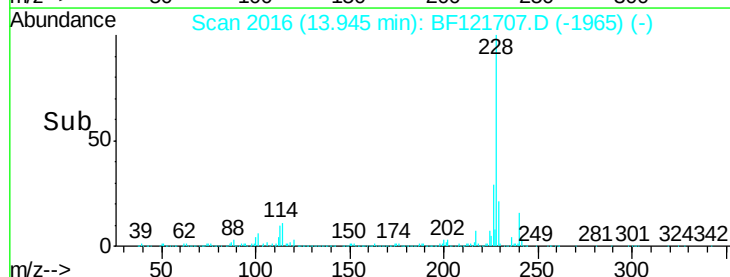
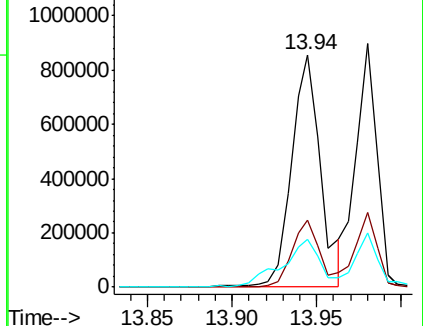
229 20.8 16.2 24.4

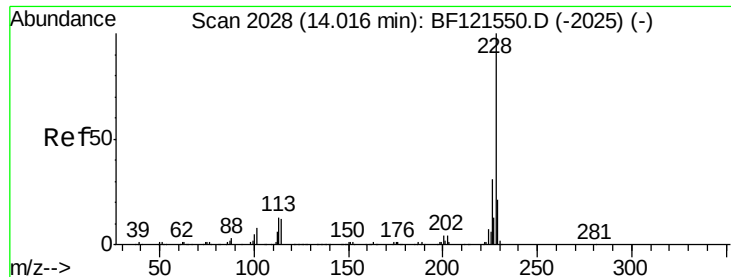


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

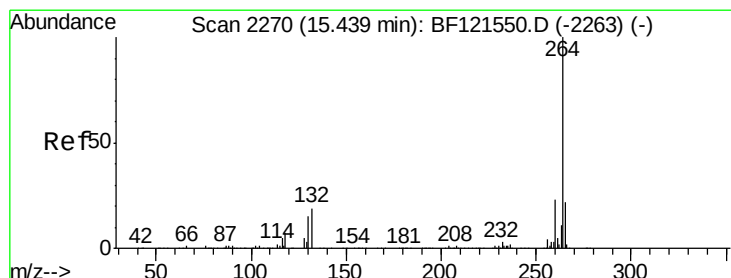
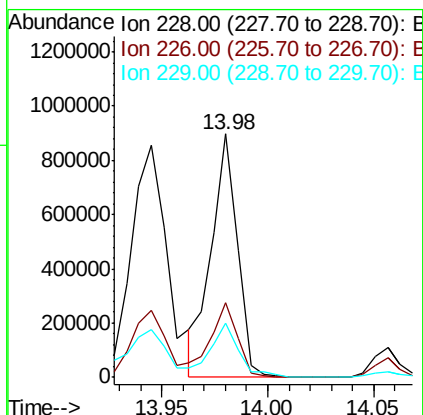
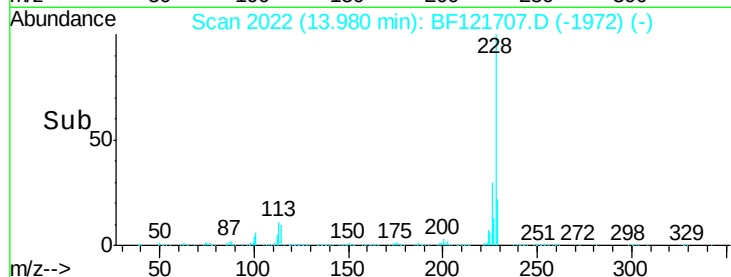
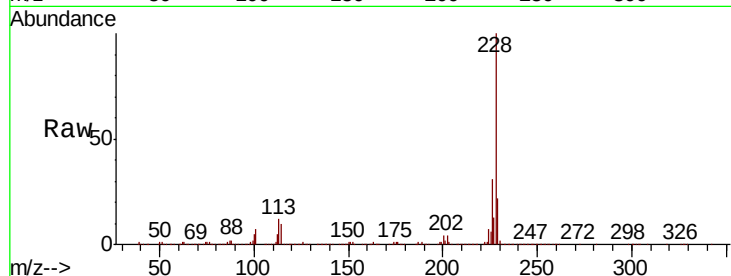




#83
 Chrysene
 Concen: 25.138 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

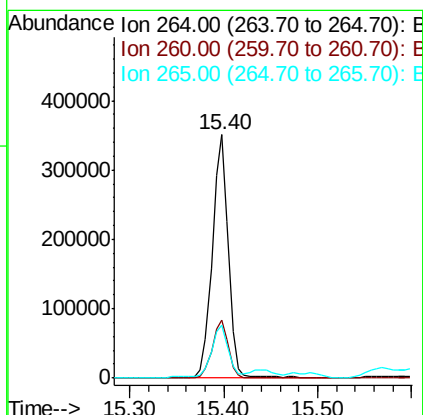
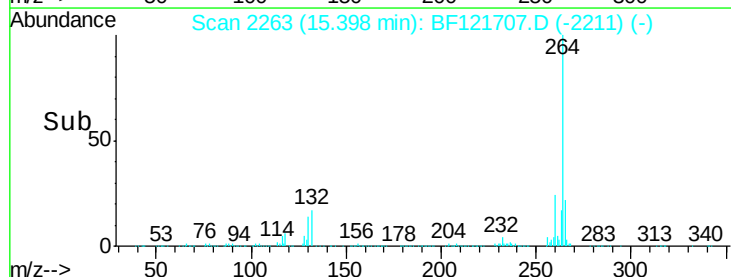
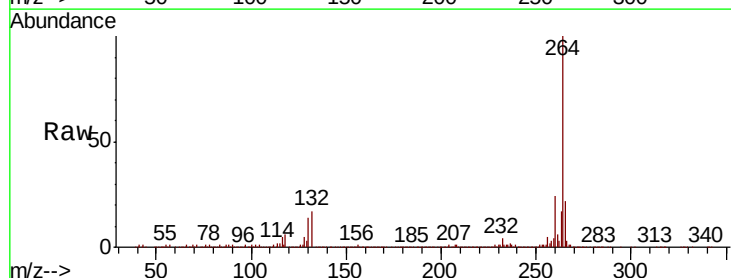
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

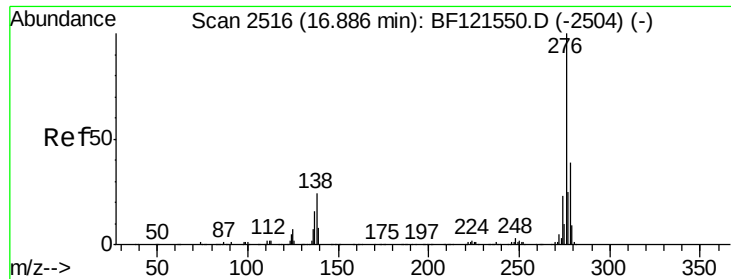
Tot	Ion:228	Resp:	777726
Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.4
229	22.2	16.0	24.0



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.40 min Scan# 2263
 Delta R.T. 0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion:264	Resp: 421950
Ion Ratio	Lower Upper
264 100	
260 23.8	18.4 27.6
265 21.9	17.2 25.8

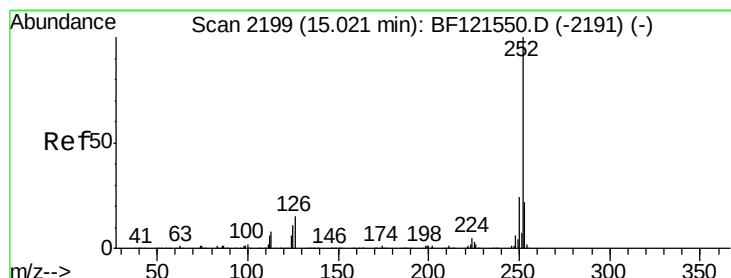
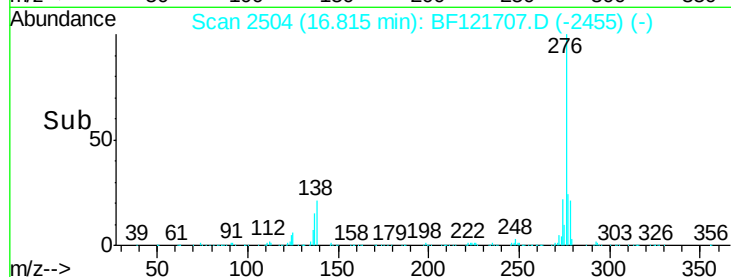
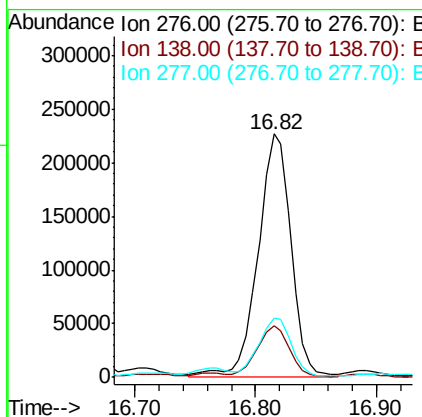
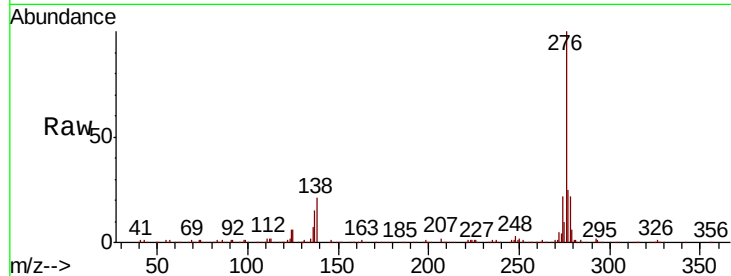




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 15.457 ng
 RT: 16.82 min Scan# 2504
 Delta R.T. -0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

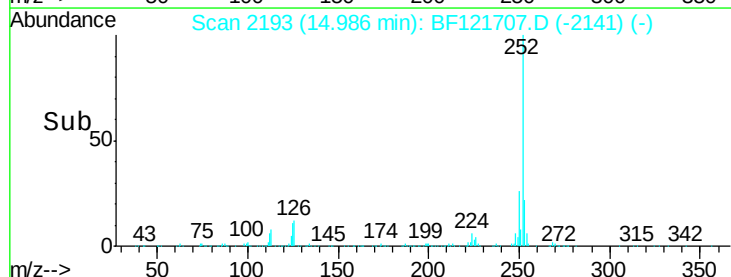
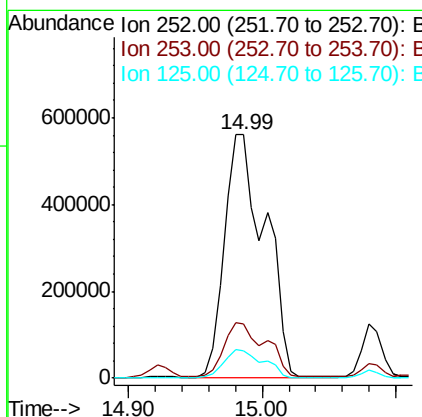
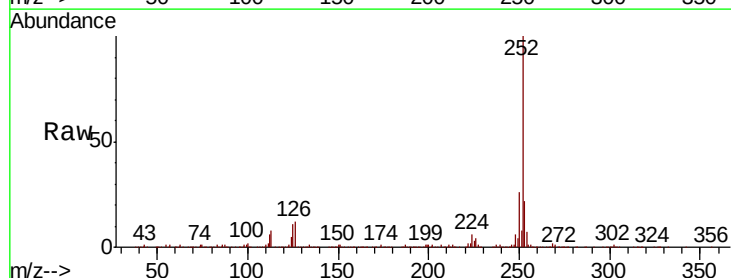
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-5-7DL

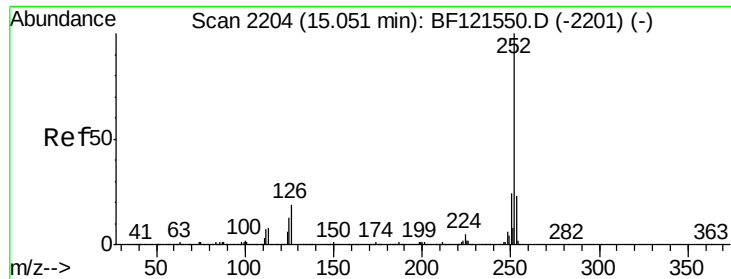
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.9	19.5	29.3
277	23.9	20.2	30.4



#88
 Benzo(b)fluoranthene
 Concen: 42.267 ng
 RT: 14.99 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: BF121707.D
 Acq: 28 Sep 2020 12:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.6
125	11.5	8.6	13.0

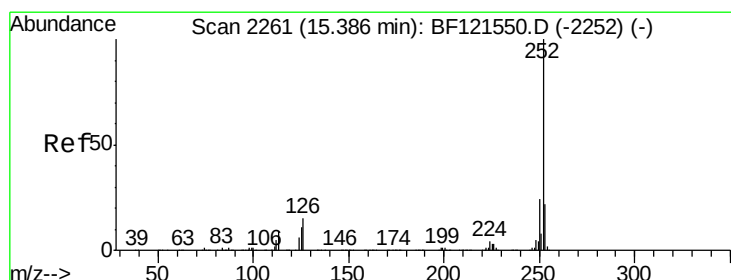
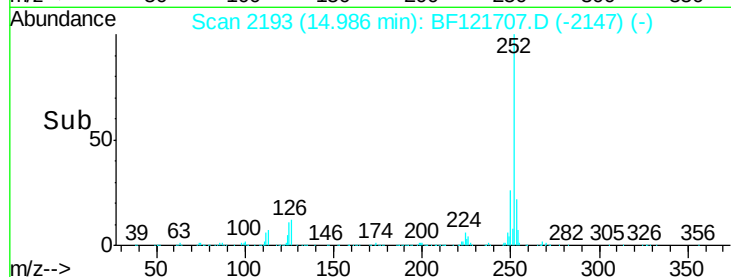
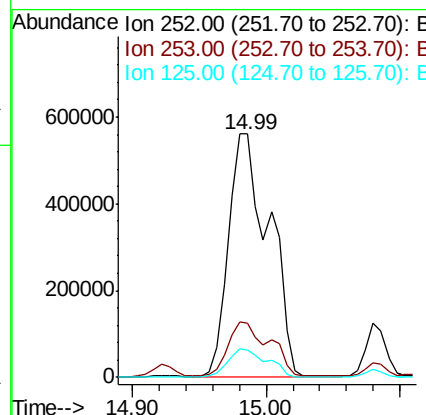
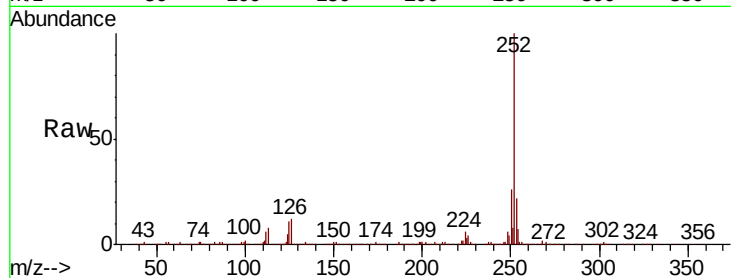




#89
Benzo(k)fluoranthene
Concen: 46.156 ng
RT: 14.99 min Scan# 2193
Delta R.T. -0.03 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

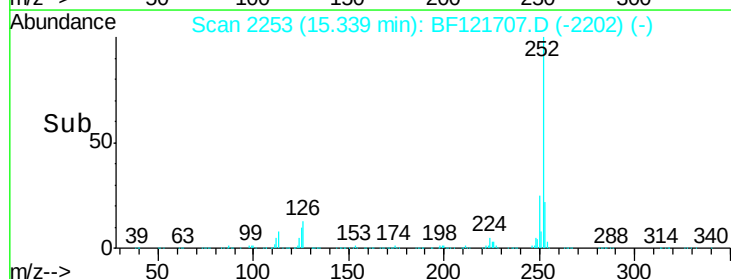
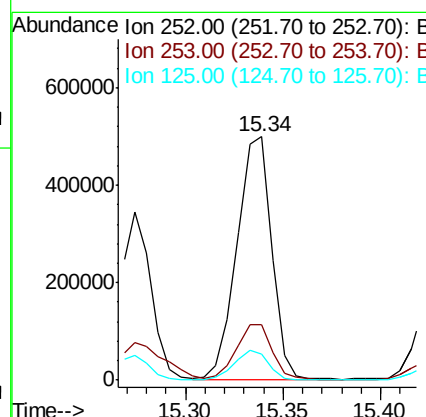
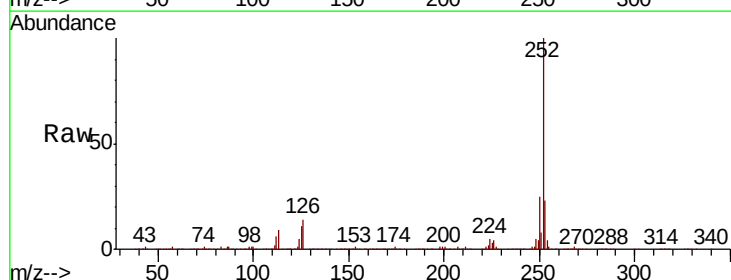
Instrument :
BNA_F
ClientSampleId :
WR-PILE-5-7DL

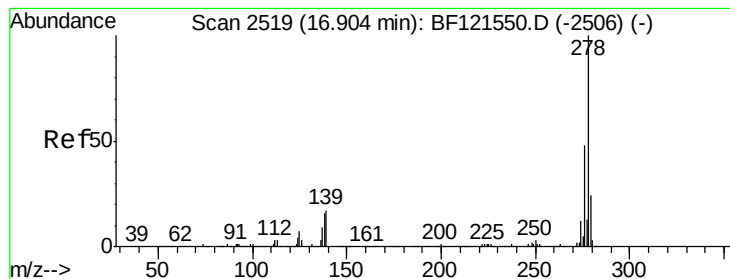
Tot Ion:252 Resp: 1192255
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 11.5 7.1 10.7#



#90
Benzo(a)pyrene
Concen: 25.727 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.00 min
Lab File: BF121707.D
Acq: 28 Sep 2020 12:32

Tgt Ion:252 Resp: 616869
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 10.7 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 4.084 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.15 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

Instrument :

BNA_F

ClientSampleId :

WR-PILE-5-7DL

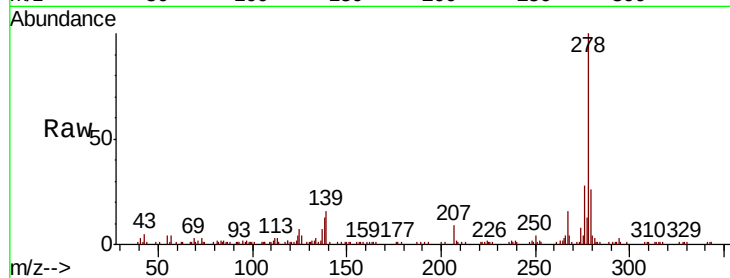
Tot Ion:278 Resp: 93408

Ion Ratio Lower Upper

278 100

139 16.3 13.0 19.4

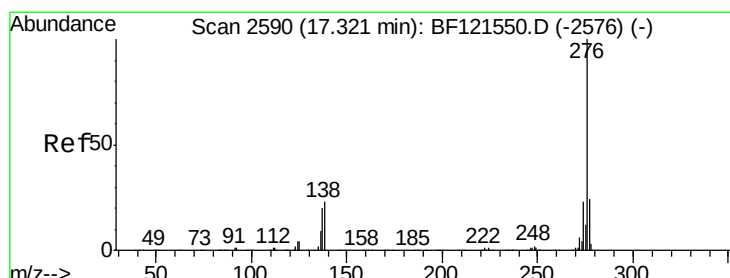
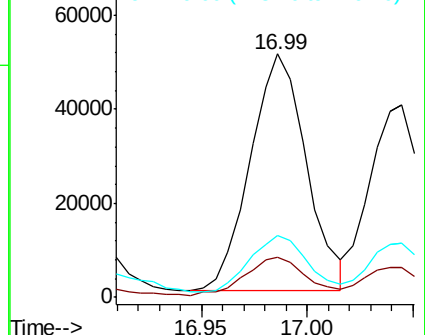
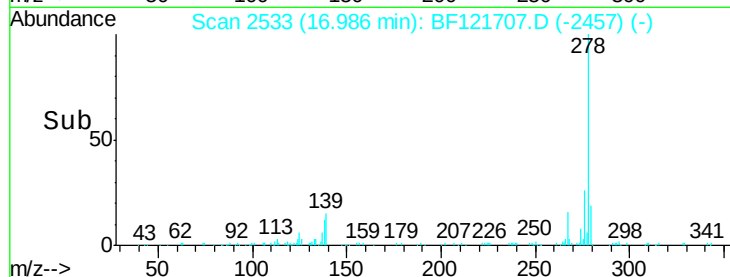
279 25.6 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 16.982 ng

RT: 17.24 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BF121707.D

Acq: 28 Sep 2020 12:32

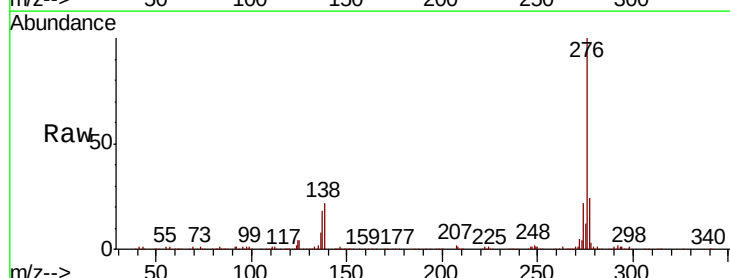
Tgt Ion:276 Resp: 381840

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 22.1 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

