

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121705.D
 Acq On : 28 Sep 2020 11:31
 Operator : JU/CG
 Sample : L4152-02DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

Quant Time: Sep 28 12:18:33 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	163589	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	642801	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	335819	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	663635	20.00	ng	0.00
76) Chrysene-d12	13.96	240	515934	20.00	ng	0.00
86) Perylene-d12	15.40	264	432411	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.41	112	32957	2.99	ng	0.00
7) Phenol-d6	6.43	99	92081	6.38	ng	-0.01
23) Nitrobenzene-d5	7.35	82	82145	6.86	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	1190	0.29	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	171482	7.73	ng	0.00
79) Terphenyl-d14	12.89	244	202238	7.94	ng	-0.01

Target Compounds

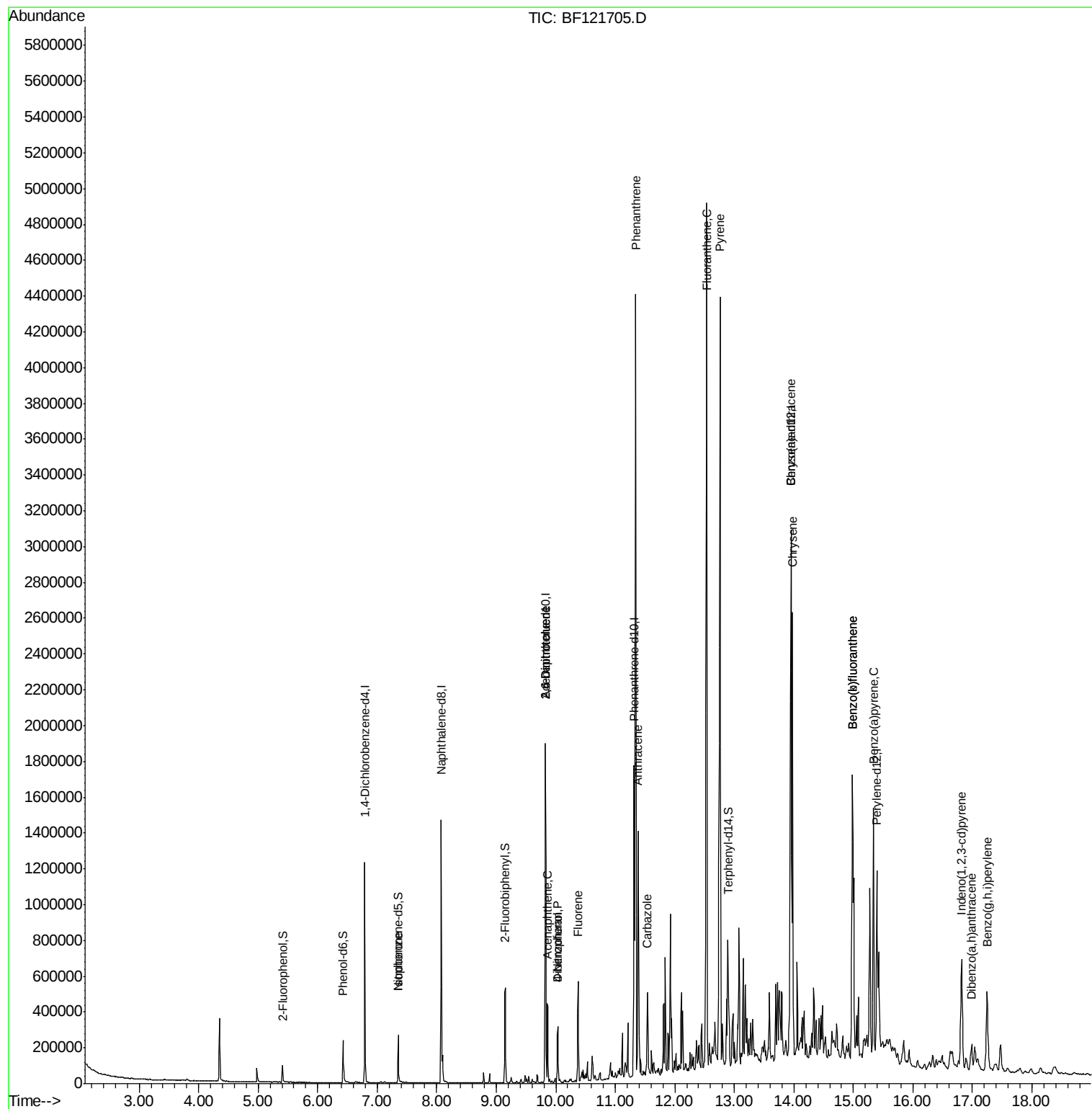
						Qvalue
25) Isophorone	7.35	82	79424	3.296	ng	# 65
51) 2,6-Dinitrotoluene	9.83	165	44963	8.674	ng	# 21
52) Acenaphthene	9.86	154	93946	4.569	ng	99
55) Dibenzofuran	10.03	168	115803	4.000	ng	93
56) 4-Nitrophenol	10.03	139	42712	8.919	ng	# 7
57) 2,4-Dinitrotoluene	9.83	165	44963	6.895	ng	# 23
58) Fluorene	10.37	166	139589	6.304	ng	100
71) Phenanthrene	11.35	178	1696655	46.924	ng	100
72) Anthracene	11.39	178	505129	13.538	ng	99
73) Carbazole	11.55	167	180853	5.371	ng	98
75) Fluoranthene	12.53	202	2235999	57.931	ng	99
78) Pyrene	12.76	202	1893441	50.230	ng	99
81) Benzo(a)anthracene	13.94	228	1088703	33.354	ng	99
83) Chrysene	13.98	228	853947	25.836	ng	97
87) Indeno(1,2,3-cd)pyrene	16.82	276	418187	14.850	ng	95
88) Benzo(b)fluoranthene	14.99	252	1263049	43.693	ng	98
89) Benzo(k)fluoranthene	14.99	252	1263049	47.714	ng	# 96
90) Benzo(a)pyrene	15.34	252	638599	25.989	ng	98
91) Dibenzo(a,h)anthracene	16.99	278	88258	3.765	ng	99
92) Benzo(a,h,i)perylene	17.24	276	378363	16.420	ng	99

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

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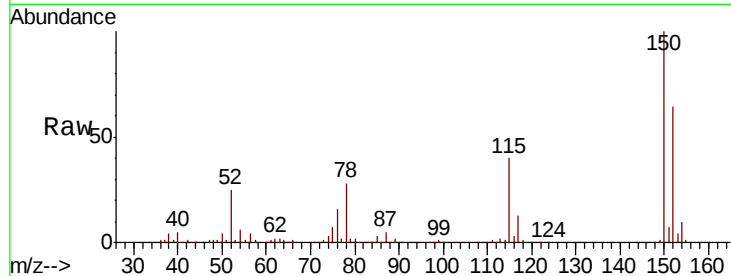


#1

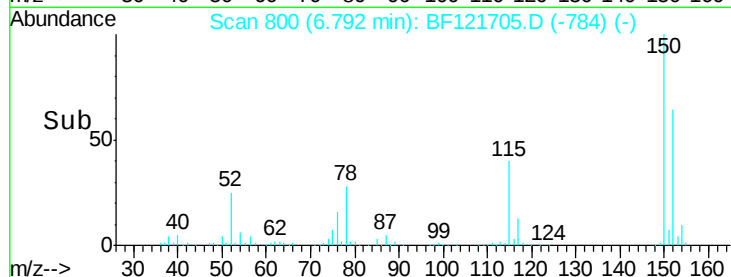
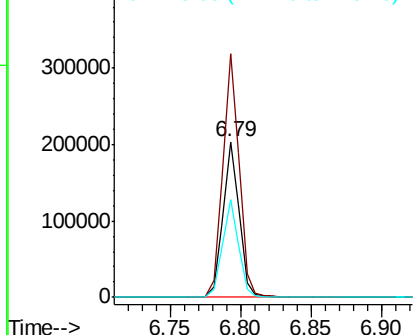
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

Tot Ion:152 Resp: 163589
Ion Ratio Lower Upper
152 100
150 156.7 122.6 184.0
115 62.9 47.1 70.7



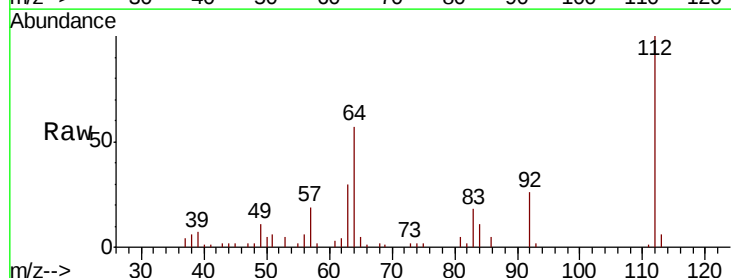
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



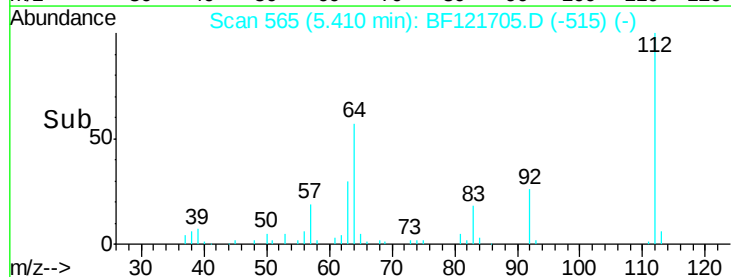
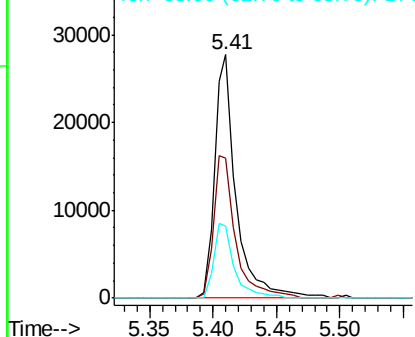
#5

2-Fluorophenol
Concen: 2.994 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:112 Resp: 32957
Ion Ratio Lower Upper
112 100
64 57.4 49.5 74.3
63 29.7 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: 6.376 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

Instrument :

BNA_F

ClientSampleId :

WR-PILE-3-4DL

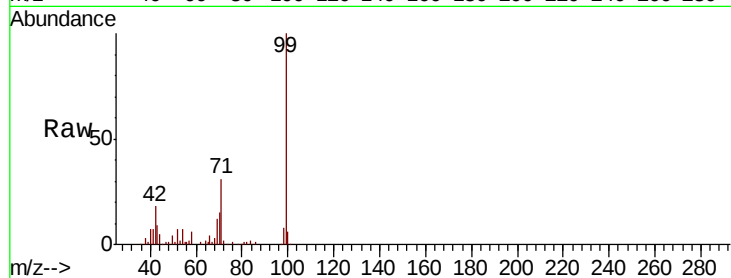
Tot Ion: 99 Resp: 92081

Ion Ratio Lower Upper

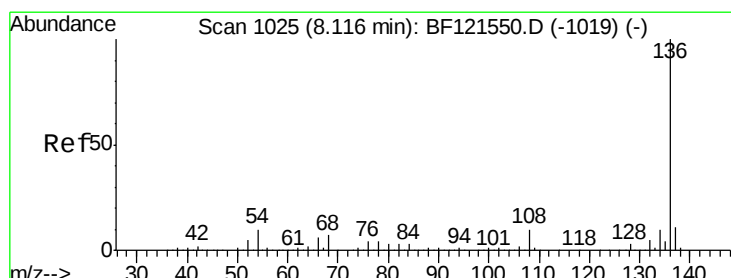
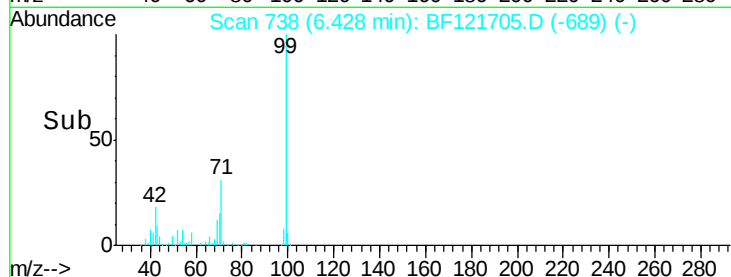
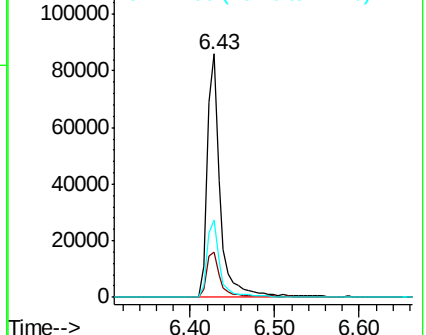
99 100

42 18.4 16.1 24.1

71 31.5 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: BF121705.D

Acq: 28 Sep 2020 11:31

Tgt Ion: 136 Resp: 642801

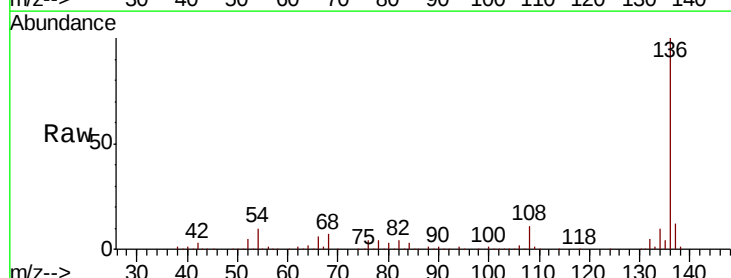
Ion Ratio Lower Upper

136 100

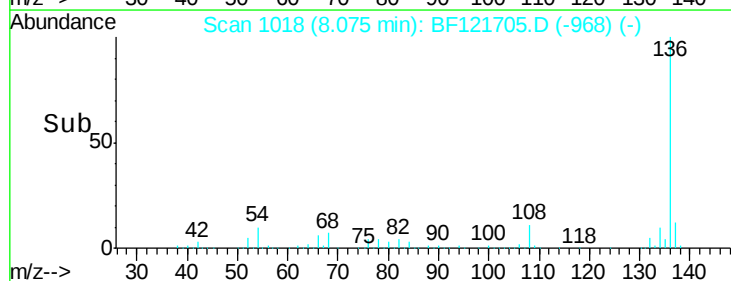
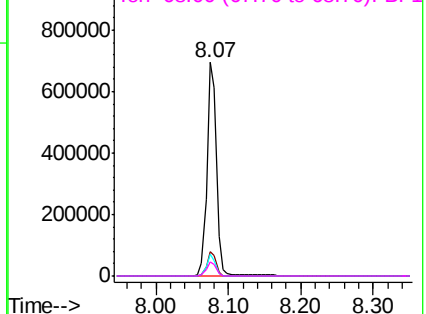
137 11.6 8.8 13.2

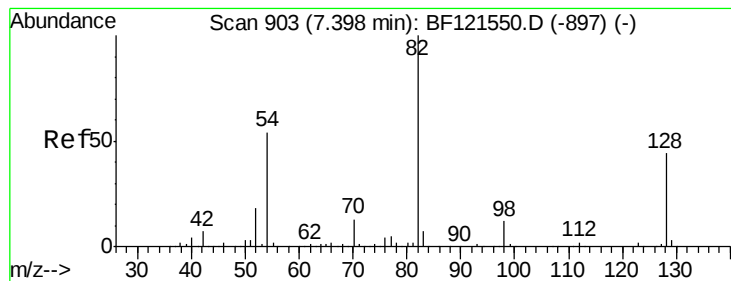
54 10.2 7.5 11.3

68 6.9 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: 6.861 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

Instrument :

BNA_F

ClientSampleId :

WR-PILE-3-4DL

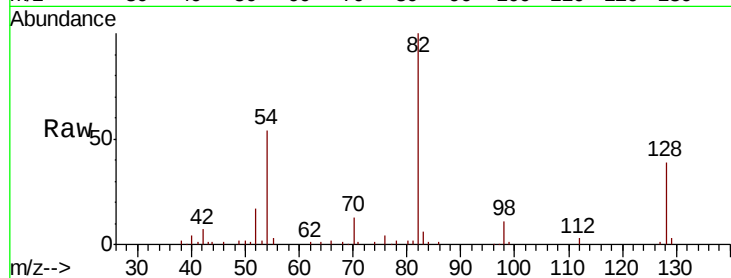
Tot Ion: 82 Resp: 82145

Ion Ratio Lower Upper

82 100

128 39.1 35.8 53.6

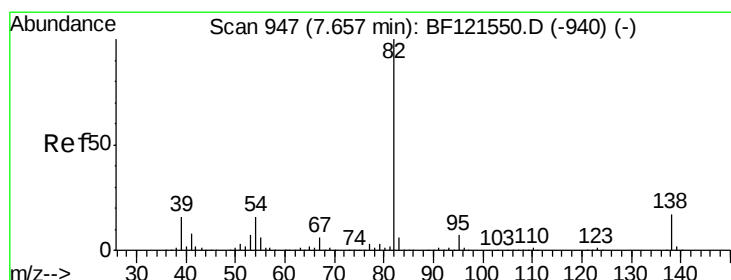
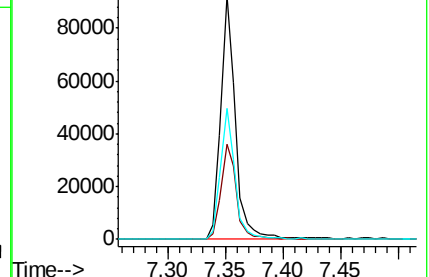
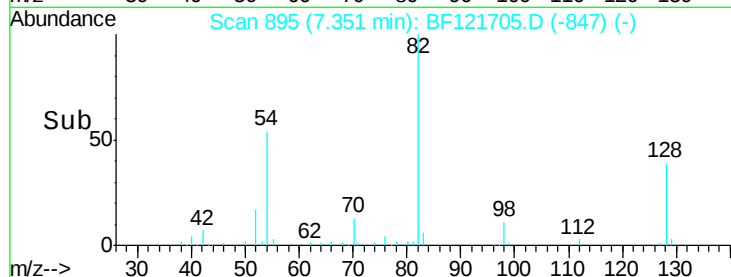
54 53.6 42.6 63.8



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: 3.296 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.28 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

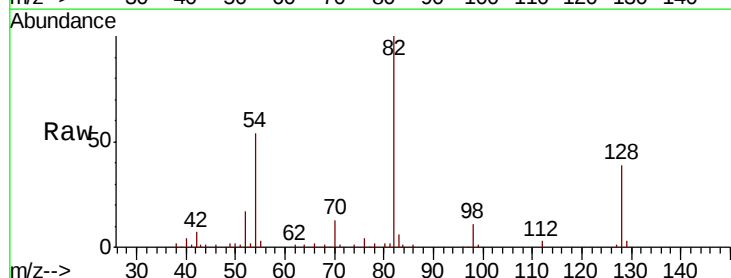
Tgt Ion: 82 Resp: 79424

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

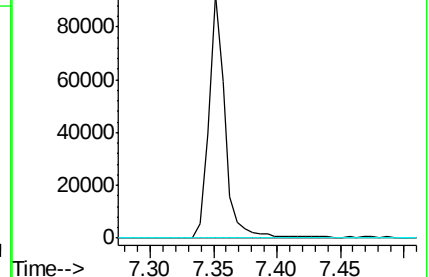
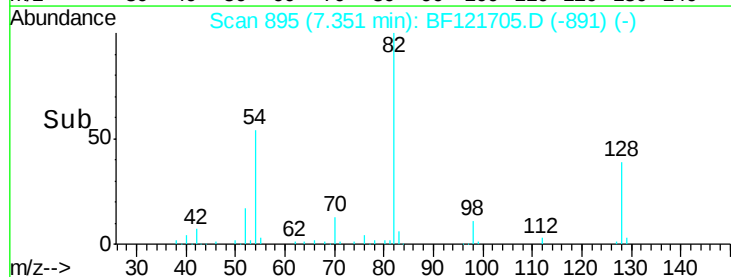
138 0.0 14.2 21.4#

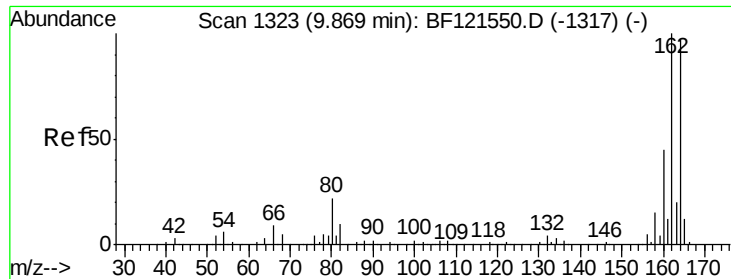


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

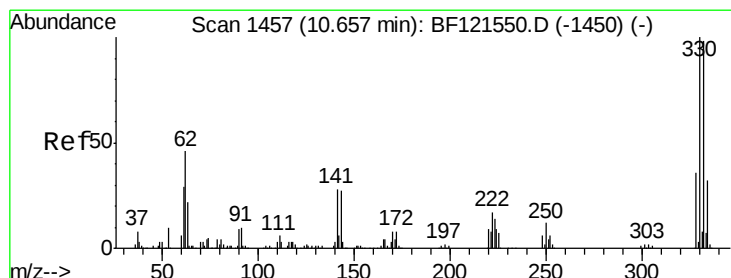
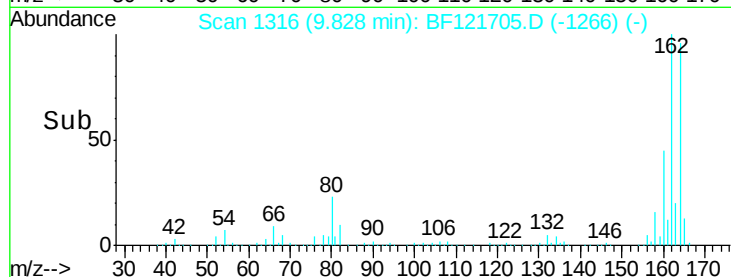
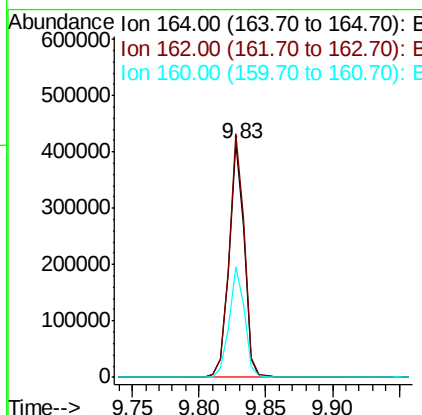
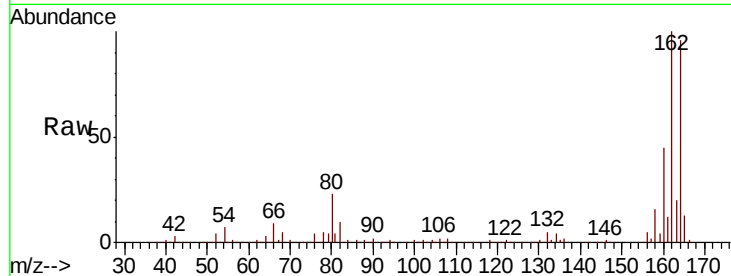




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

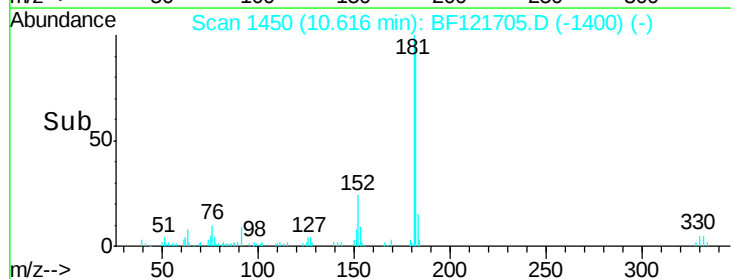
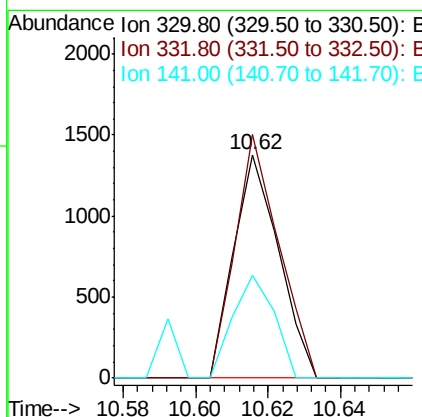
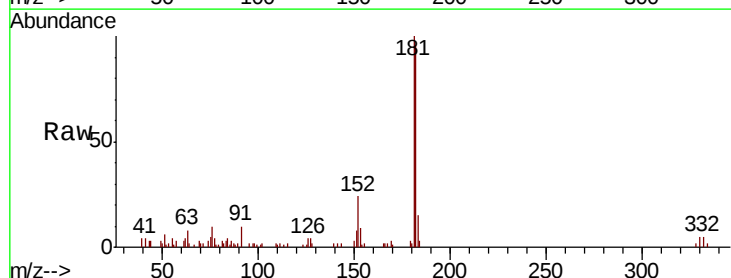
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

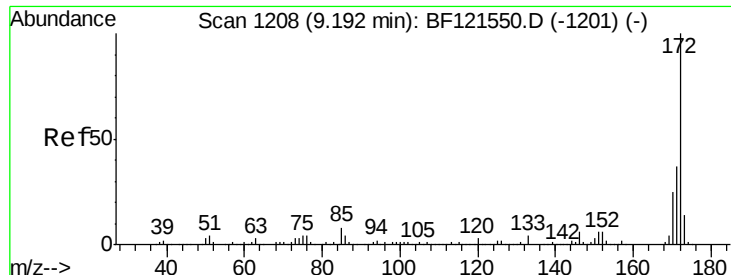
Tot Ion:164 Resp: 335819
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.1 123.1
 160 47.0 36.8 55.2



#42
 2,4,6-Tribromophenol
 Concen: 0.285 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Tgt Ion:330 Resp: 1190
 Ion Ratio Lower Upper
 330 100
 332 106.1 76.0 114.0
 141 42.2 22.2 33.4#

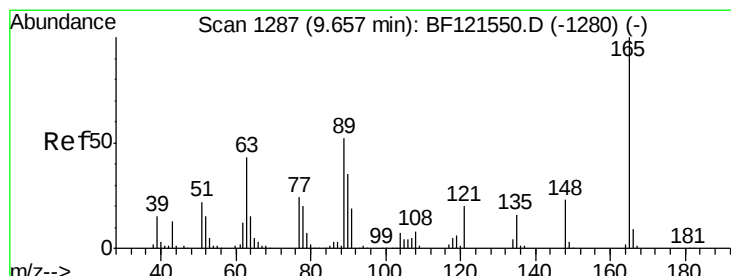
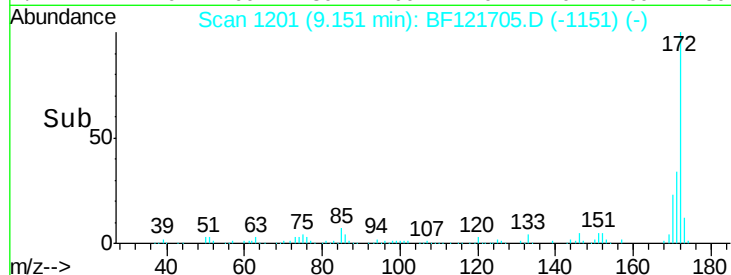
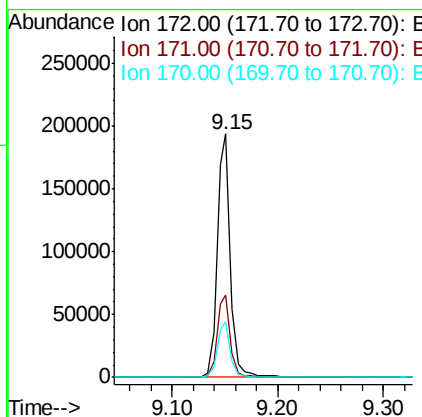
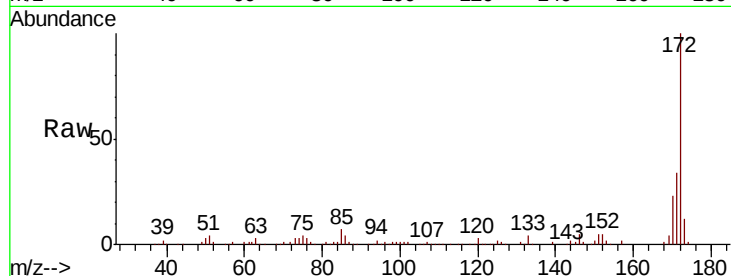




#45
 2-Fluorobiphenyl
 Concen: 7.734 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

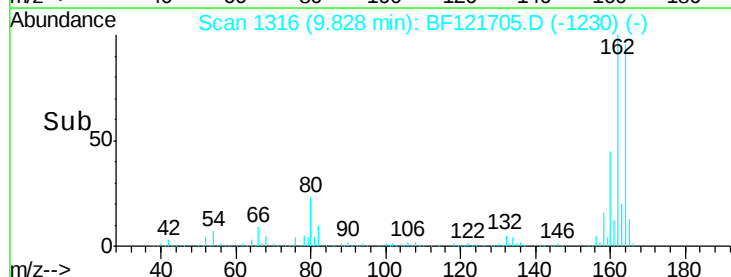
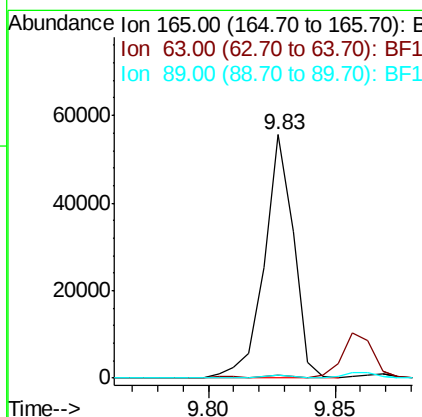
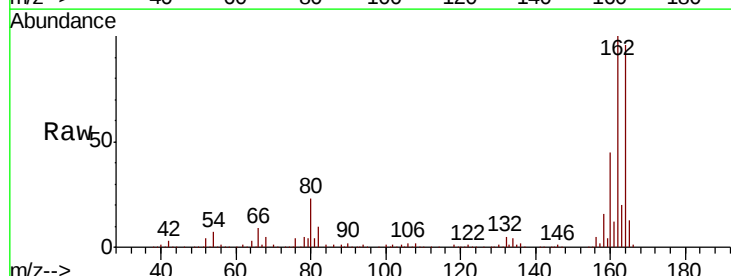
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

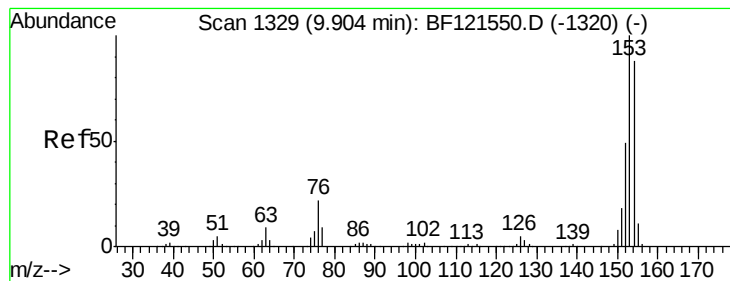
Tot Ion:172 Resp: 171482
 Ion Ratio Lower Upper
 172 100
 171 33.7 29.0 43.6
 170 22.9 19.5 29.3



#51
 2,6-Dinitrotoluene
 Concen: 8.674 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. 0.21 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Tgt Ion:165 Resp: 44963
 Ion Ratio Lower Upper
 165 100
 63 1.2 49.8 74.6#
 89 1.1 48.2 72.2#





#52

Acenaphthene

Concen: 4.569 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

Instrument :

BNA_F

ClientSampleId :

WR-PILE-3-4DL

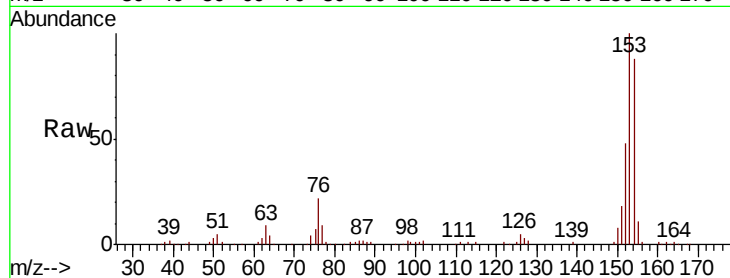
Tot Ion:154 Resp: 93946

Ion Ratio Lower Upper

154 100

153 113.3 91.7 137.5

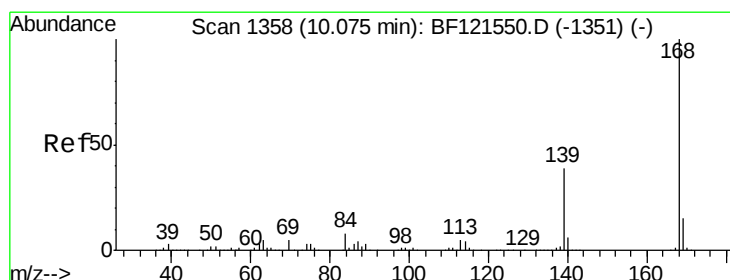
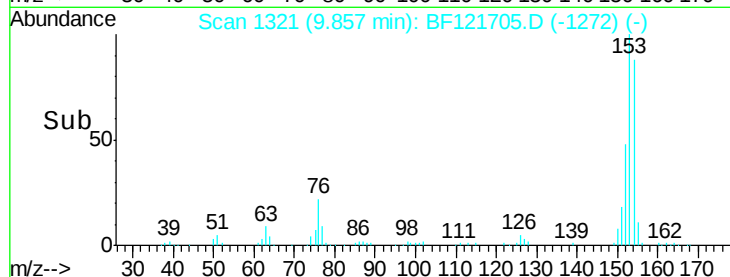
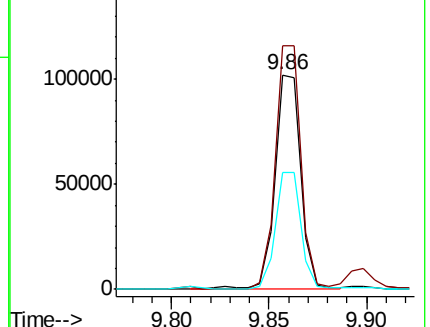
152 54.4 44.0 66.0



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: 4.000 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

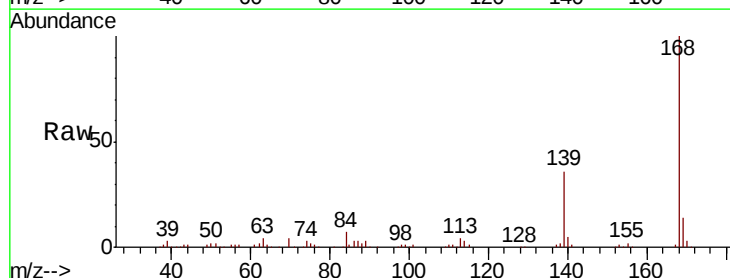
Tgt Ion:168 Resp: 115803

Ion Ratio Lower Upper

168 100

139 35.5 32.6 49.0

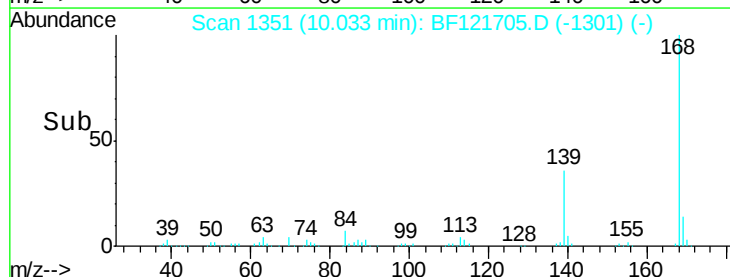
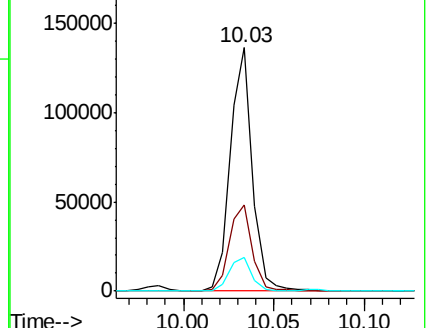
169 13.6 11.7 17.5

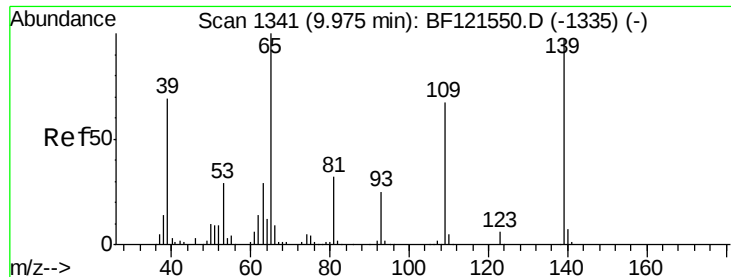


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

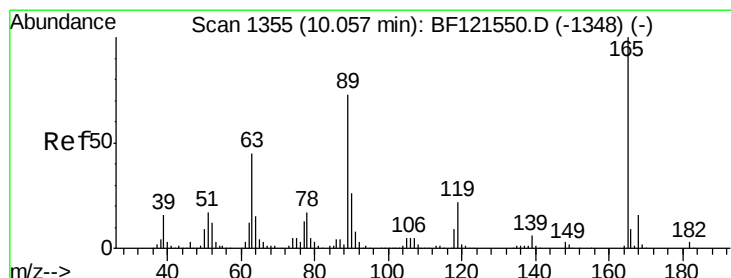
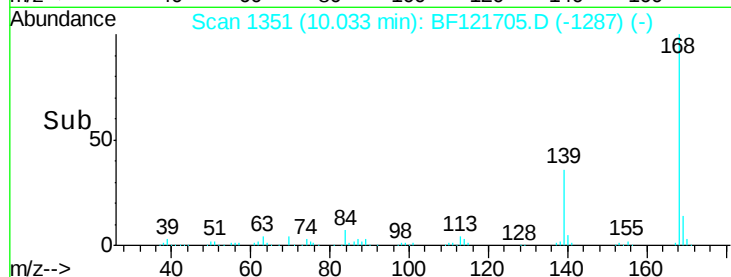
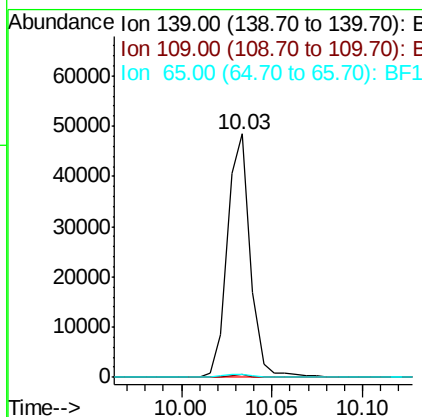
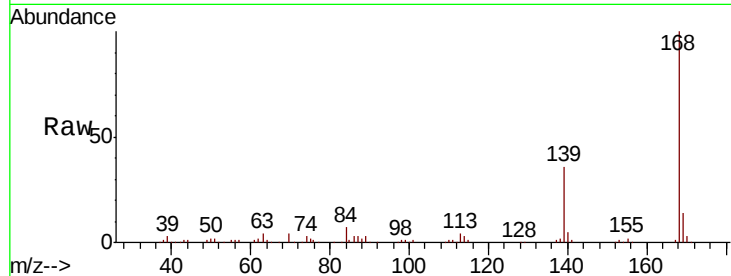




#56
4-Nitrophenol
Concen: 8.919 ng
RT: 10.03 min Scan# 1351
Delta R.T. 0.08 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

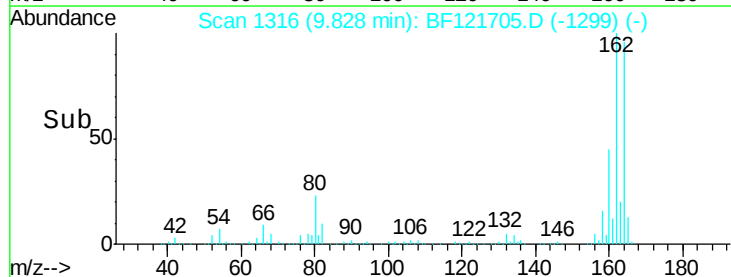
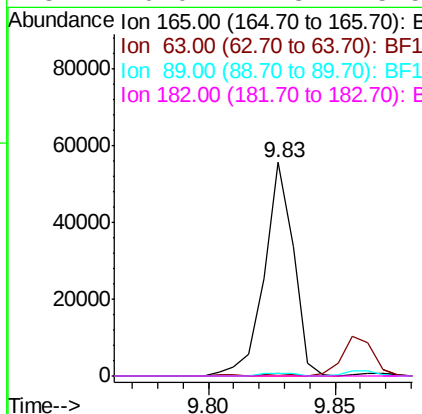
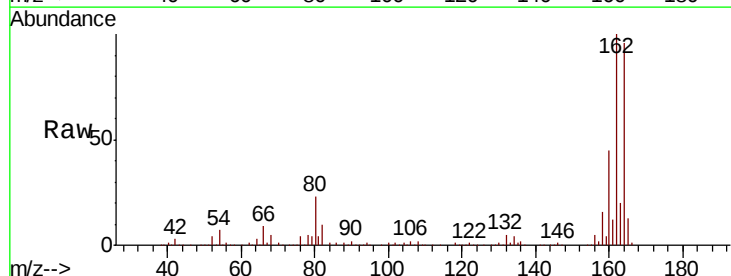
Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

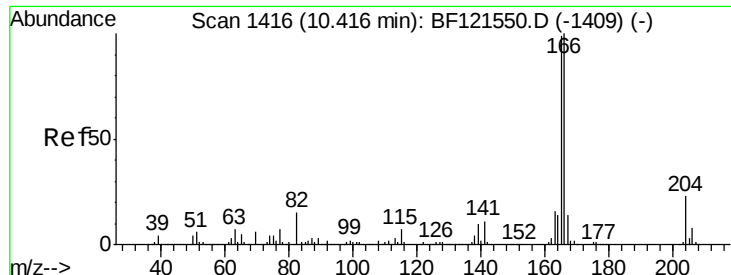
Tot Ion:139 Resp: 42712
Ion Ratio Lower Upper
139 100
109 1.3 49.0 89.0#
65 1.3 82.5 122.5#



#57
2,4-Dinitrotoluene
Concen: 6.895 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.20 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:165 Resp: 44963
Ion Ratio Lower Upper
165 100
63 1.2 36.6 55.0#
89 1.1 57.6 86.4#
182 0.0 2.3 3.5#





#58

Fluorene

Concen: 6.304 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.01 min

Lab File: BF121705.D

Acq: 28 Sep 2020 11:31

Instrument :

BNA_F

ClientSampleId :

WR-PILE-3-4DL

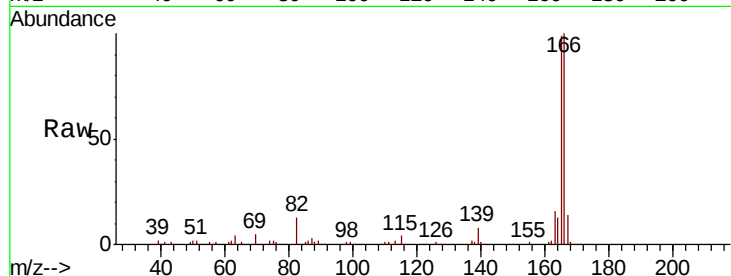
Tot Ion:166 Resp: 139589

Ion Ratio Lower Upper

166 100

165 98.8 78.8 118.2

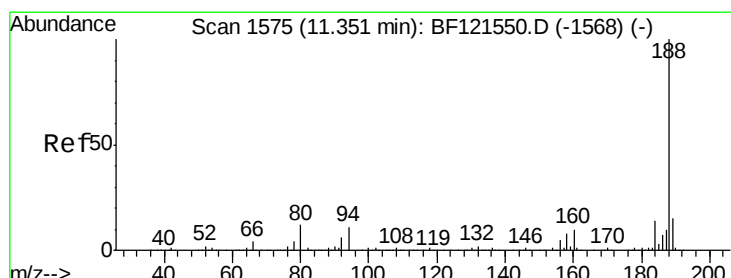
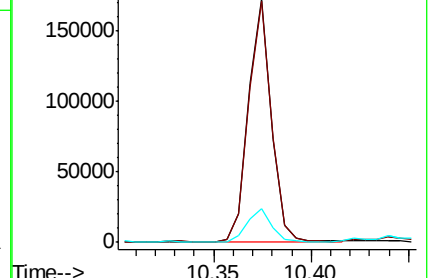
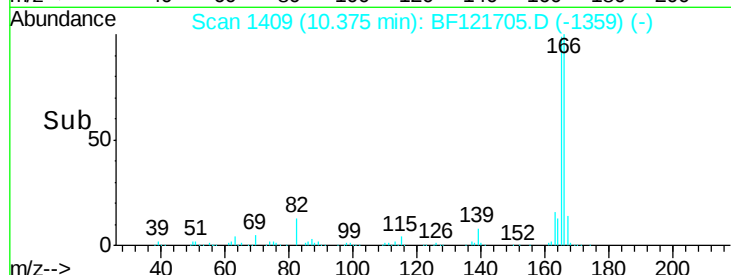
167 13.7 11.0 16.4



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: BF121705.D

Acq: 28 Sep 2020 11:31

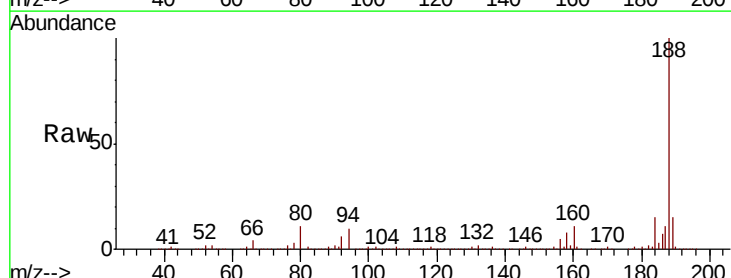
Tgt Ion:188 Resp: 663635

Ion Ratio Lower Upper

188 100

94 10.0 8.4 12.6

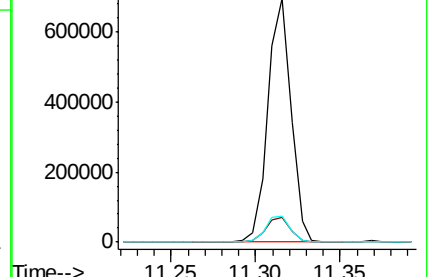
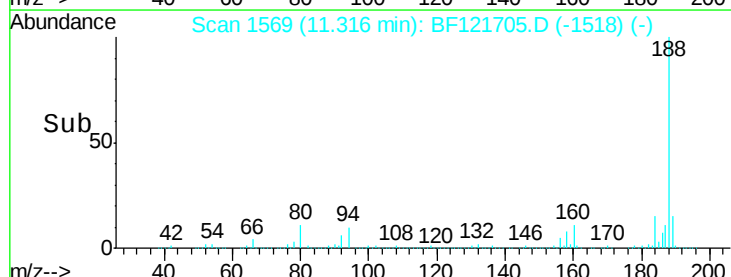
80 10.8 9.3 13.9

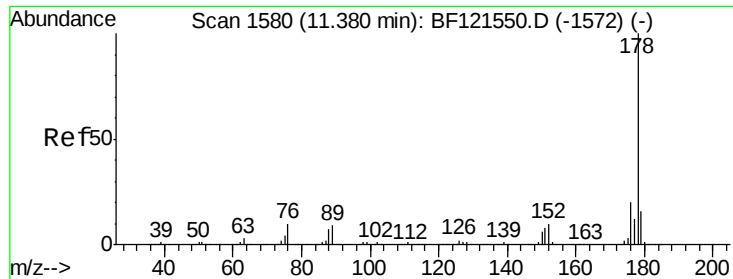


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

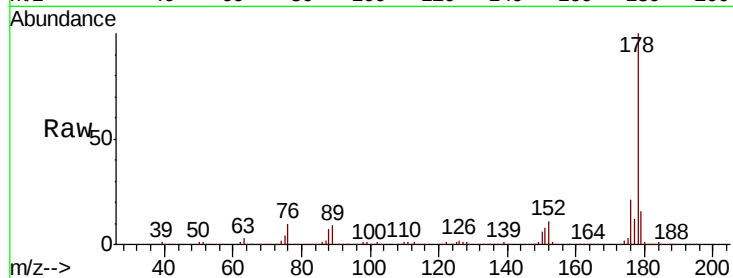




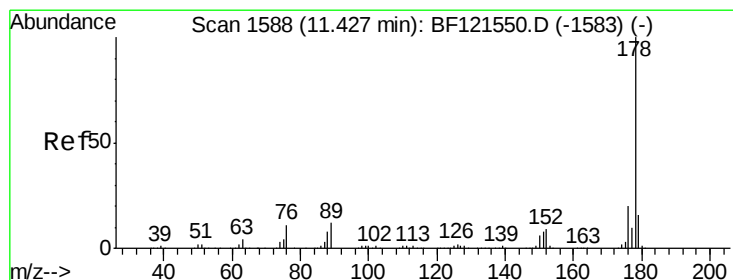
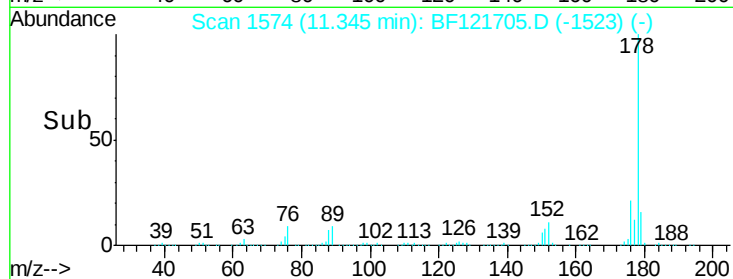
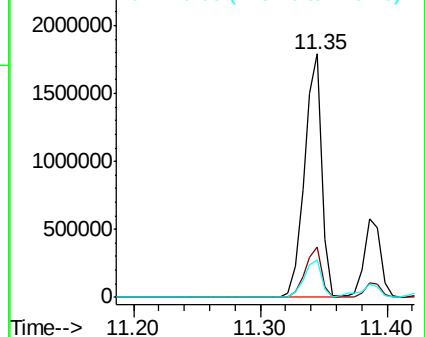
#71
Phenanthrene
Concen: 46.924 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

Tot Ion:178 Resp: 1696655
Ion Ratio Lower Upper
178 100
176 20.6 16.2 24.4
179 15.7 12.5 18.7

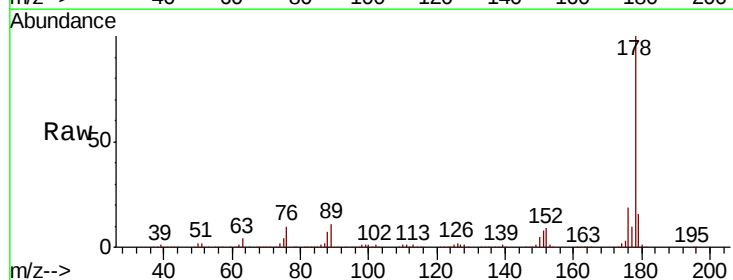


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

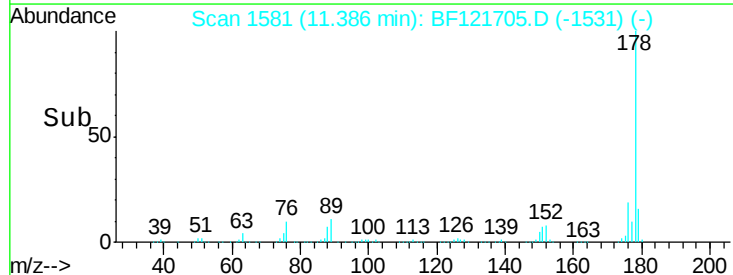
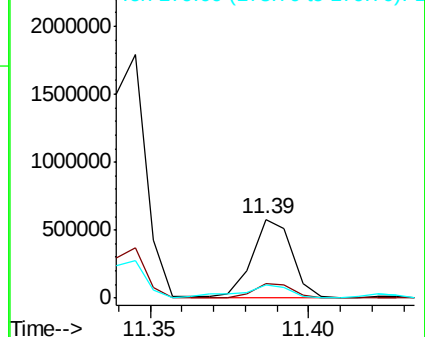


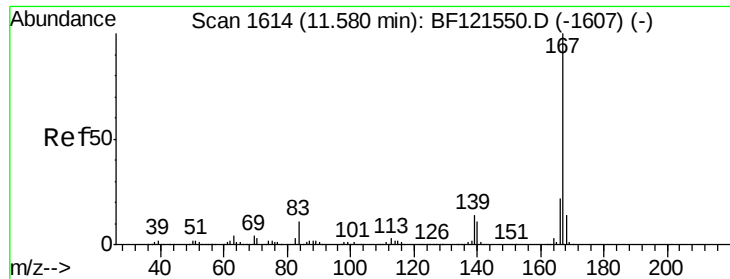
#72
Anthracene
Concen: 13.538 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:178 Resp: 505129
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 16.1 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

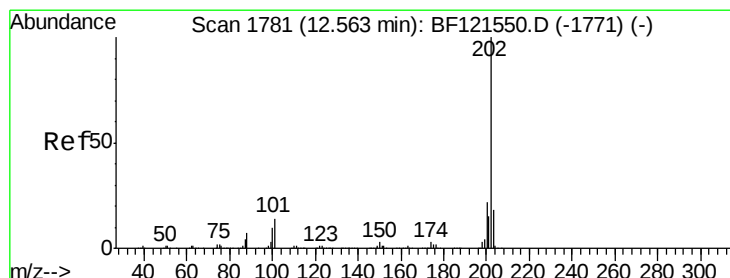
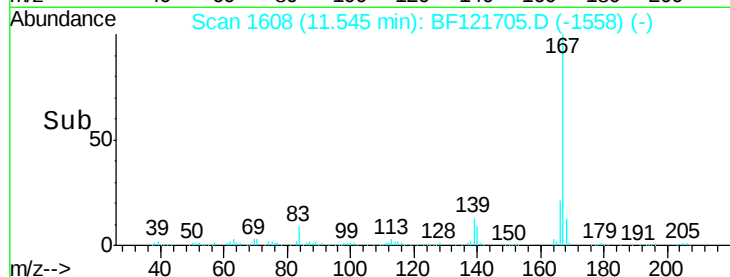
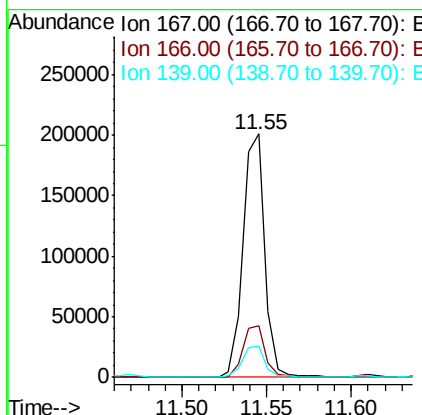
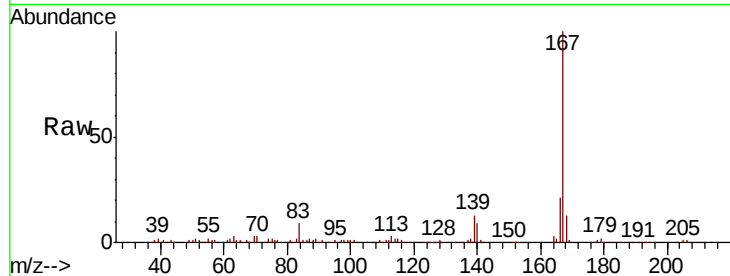




#73
 Carbazole
 Concen: 5.371 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

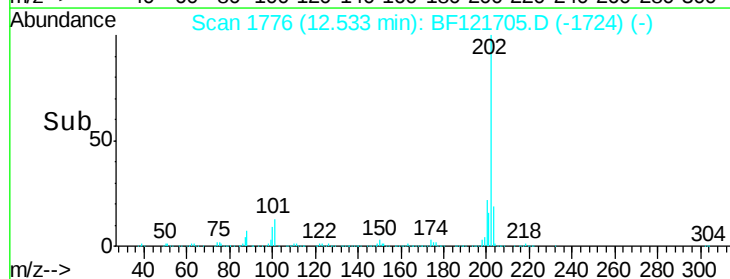
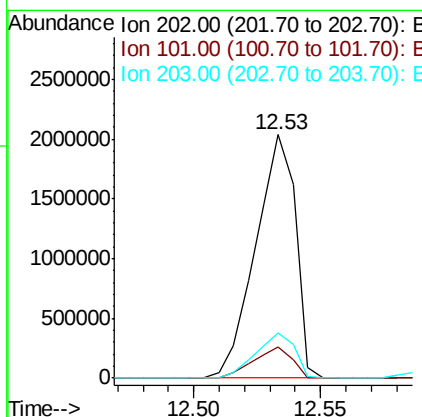
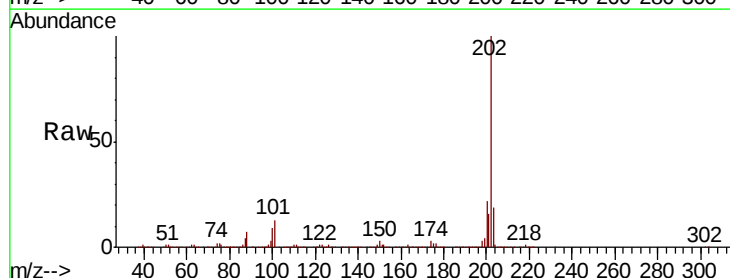
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

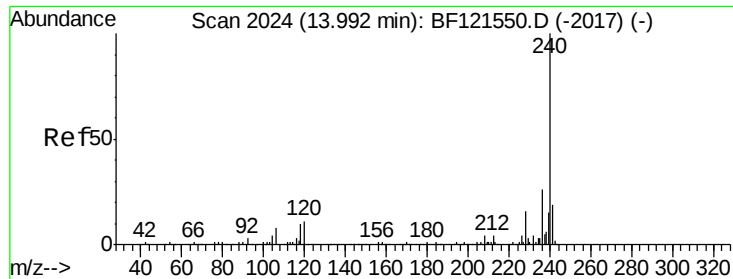
Tot Ion:167 Resp: 180853
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.6 26.4
 139 12.8 10.7 16.1



#75
 Fluoranthene
 Concen: 57.931 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Tgt Ion:202 Resp: 2235999
 Ion Ratio Lower Upper
 202 100
 101 12.6 0.0 33.7
 203 18.6 0.0 38.5

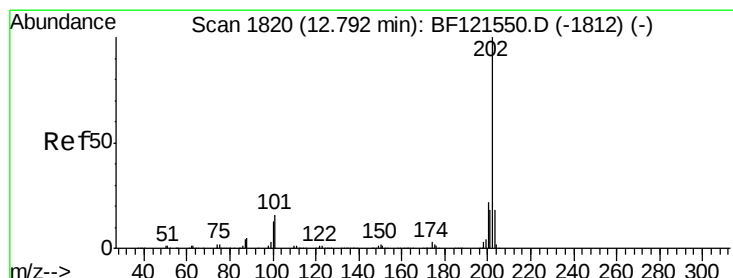
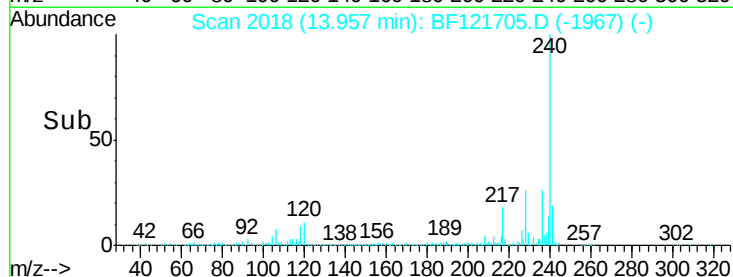
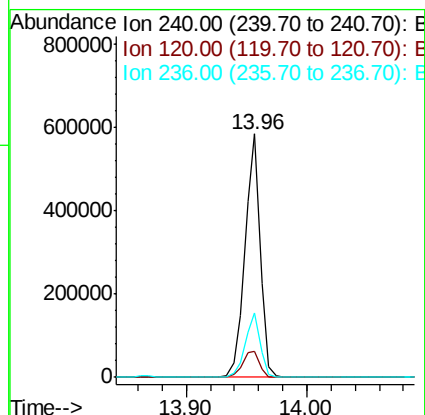
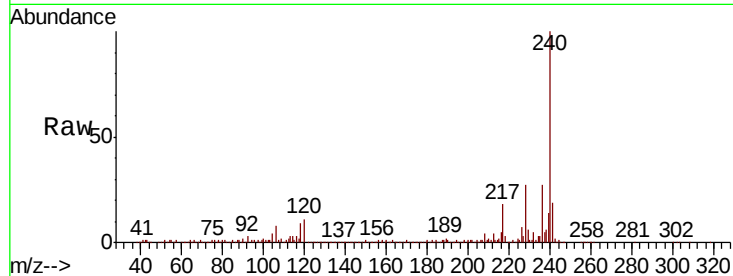




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.00 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

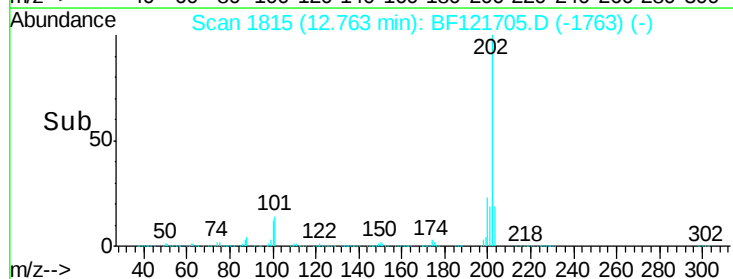
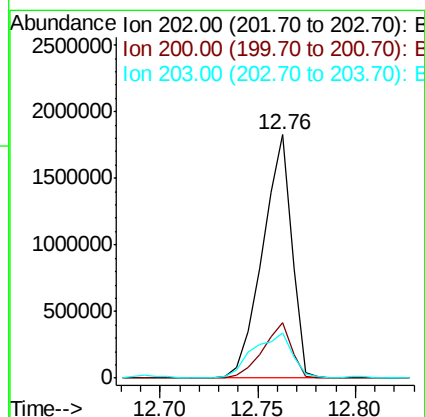
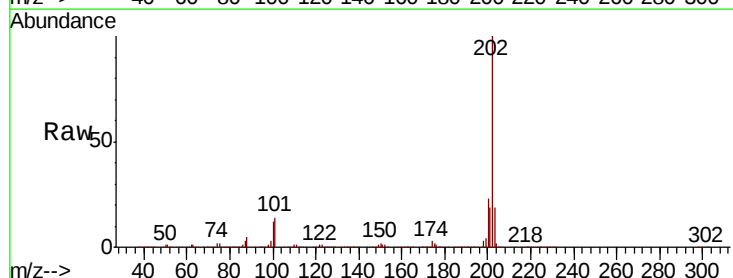
Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

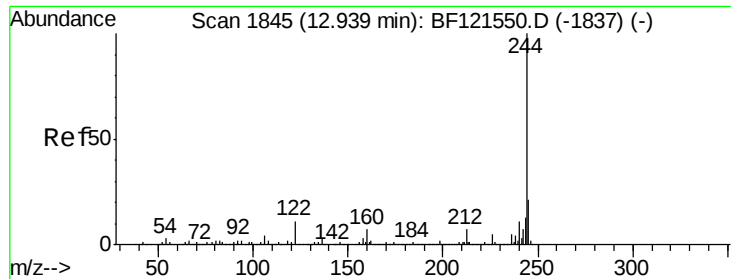
Tot Ion:240 Resp: 515934
Ion Ratio Lower Upper
240 100
120 10.9 9.1 13.7
236 26.5 20.6 30.8



#78
Pyrene
Concen: 50.230 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:202 Resp: 1893441
Ion Ratio Lower Upper
202 100
200 22.7 17.8 26.8
203 18.7 14.3 21.5

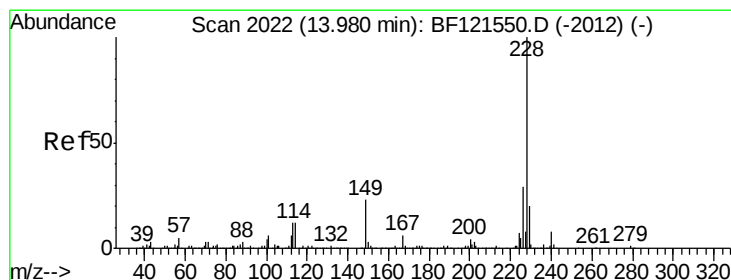
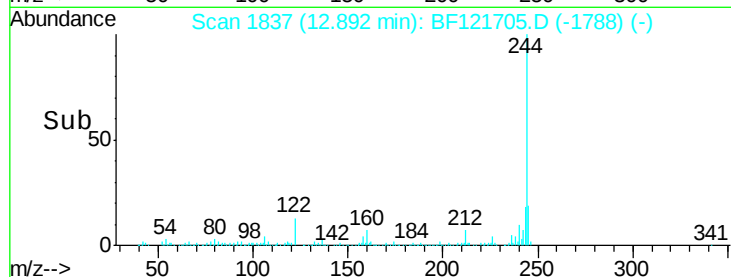
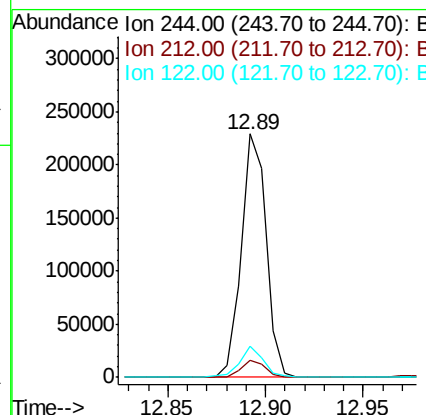
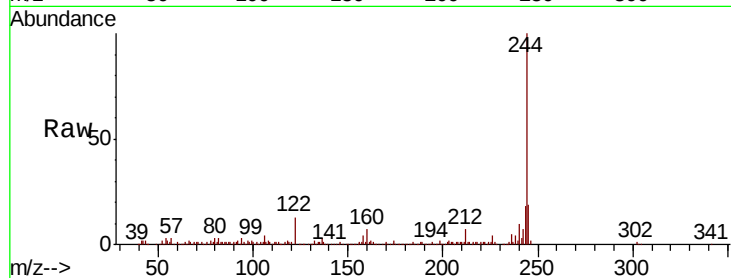




#79
 Terphenyl-d14
 Concen: 7.941 ng
 RT: 12.89 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

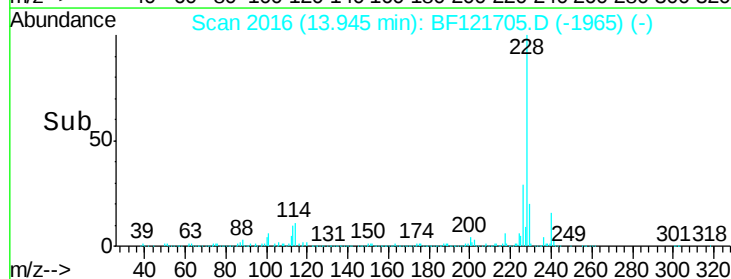
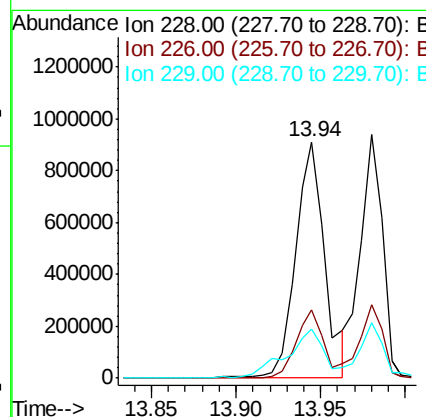
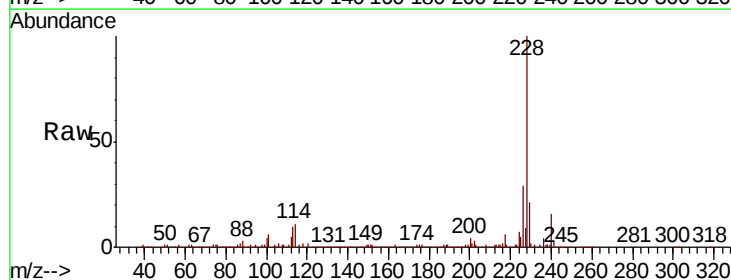
Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

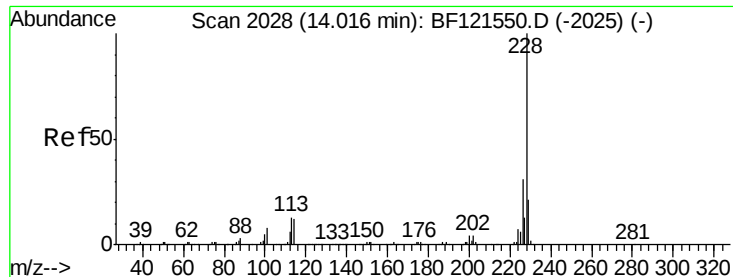
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	12.8	8.0	12.0



#81
 Benzo(a)anthracene
 Concen: 33.354 ng
 RT: 13.94 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.8	16.2	24.4

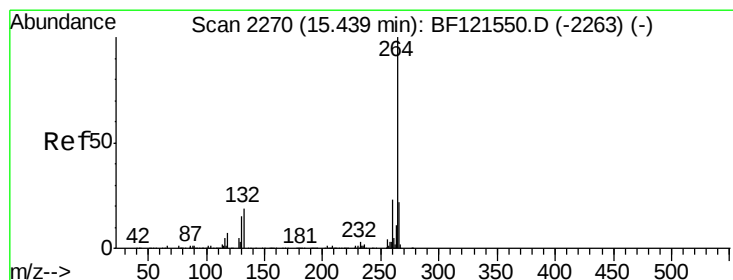
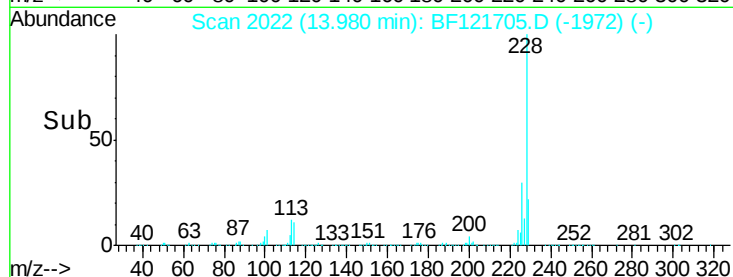
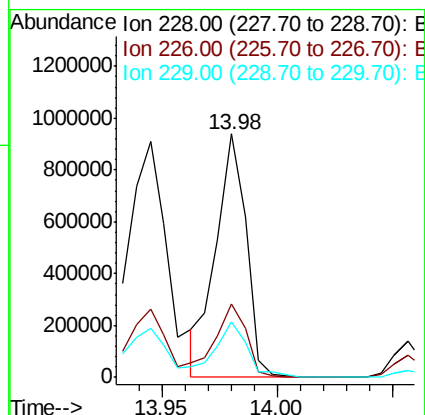
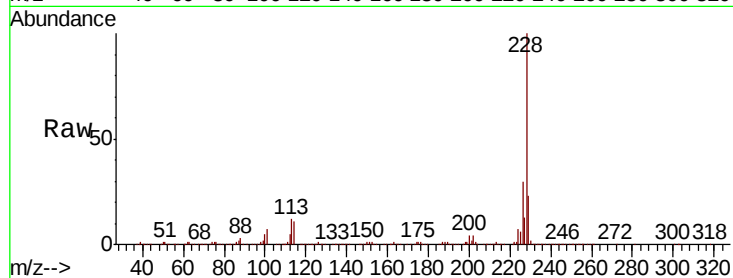




#83
Chrysene
Concen: 25.836 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

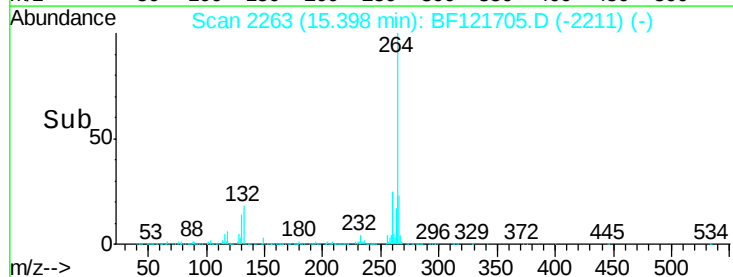
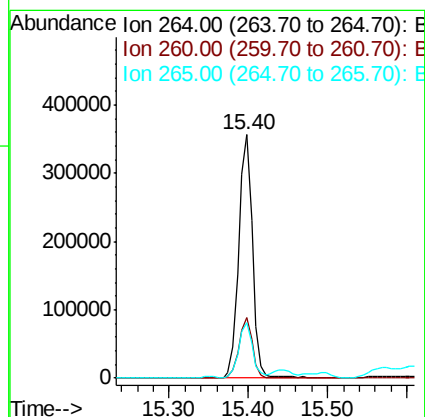
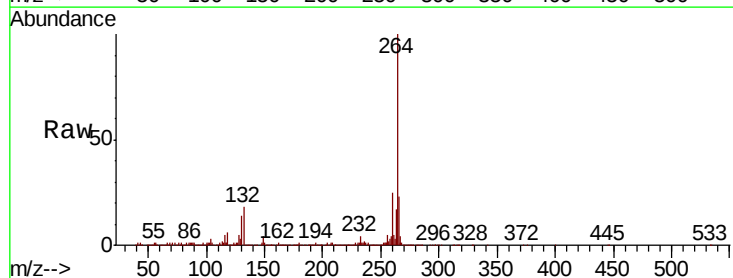
Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

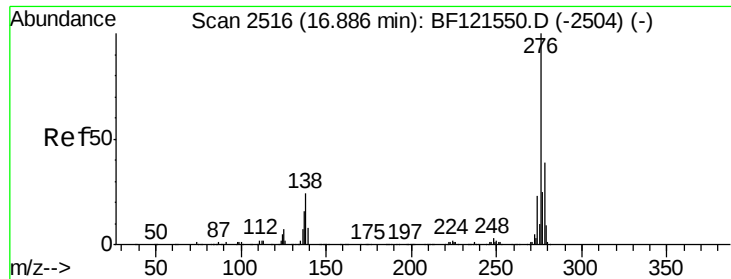
Tot Ion:228 Resp: 853947
Ion Ratio Lower Upper
228 100
226 30.2 25.0 37.4
229 22.5 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:264 Resp: 432411
Ion Ratio Lower Upper
264 100
260 24.7 18.4 27.6
265 22.6 17.2 25.8

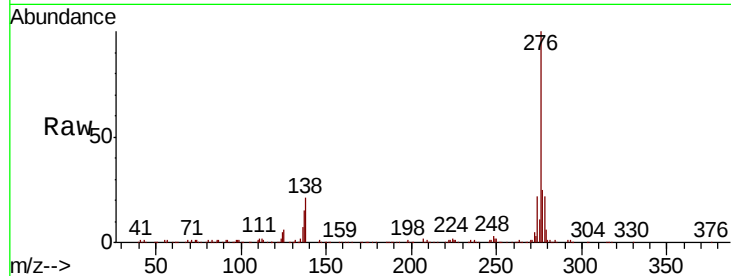




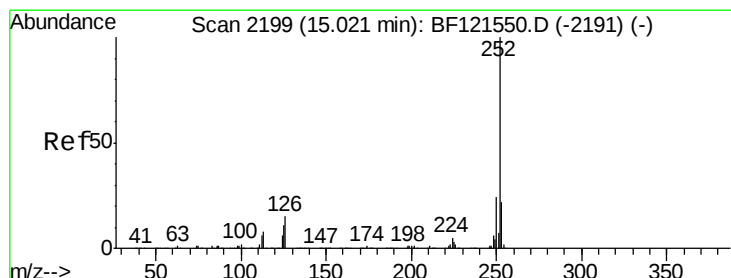
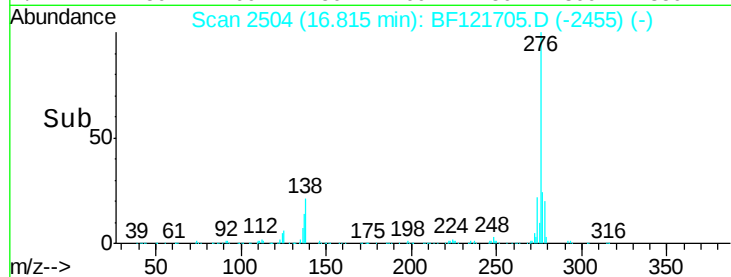
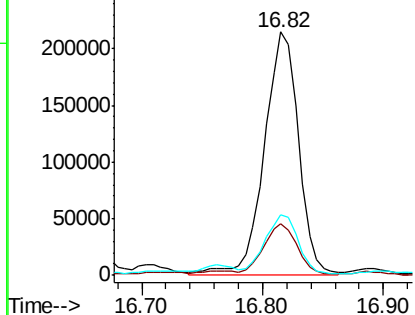
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 14.850 ng
 RT: 16.82 min Scan# 2504
 Delta R.T. -0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Instrument :
 BNA_F
 ClientSampleId :
 WR-PILE-3-4DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.3	19.5	29.3
277	24.0	20.2	30.4

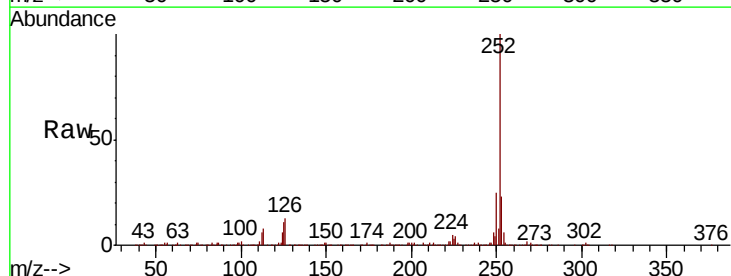


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

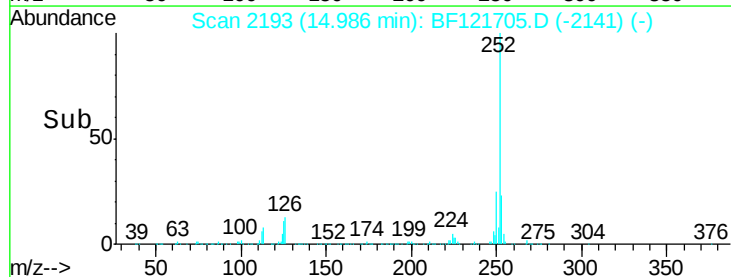
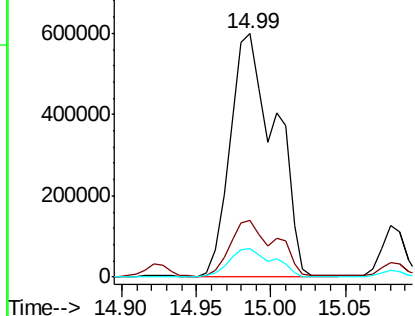


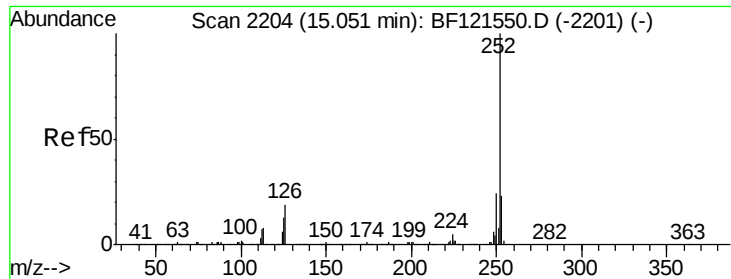
#88
 Benzo(b)fluoranthene
 Concen: 43.693 ng
 RT: 14.99 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: BF121705.D
 Acq: 28 Sep 2020 11:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	11.5	8.6	13.0



Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E

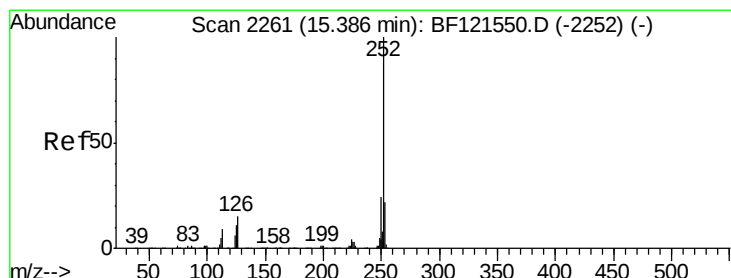
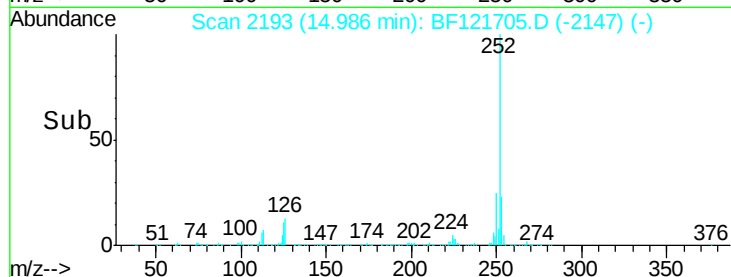
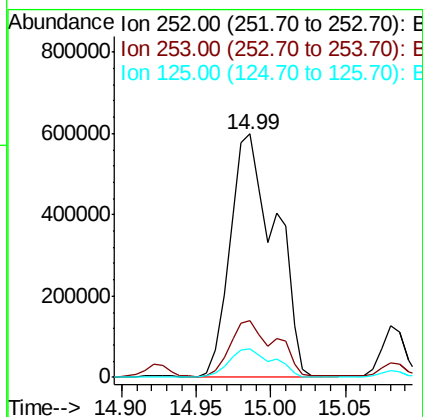
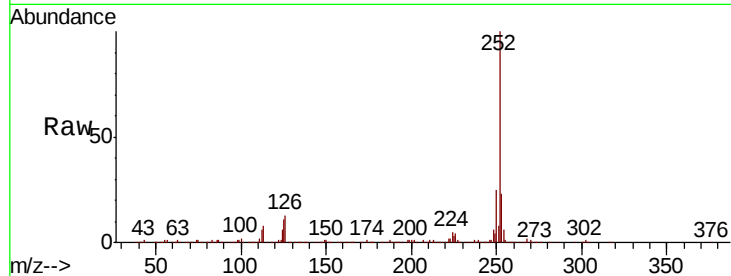




#89
Benzo(k)fluoranthene
Concen: 47.714 ng
RT: 14.99 min Scan# 2193
Delta R.T. -0.03 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

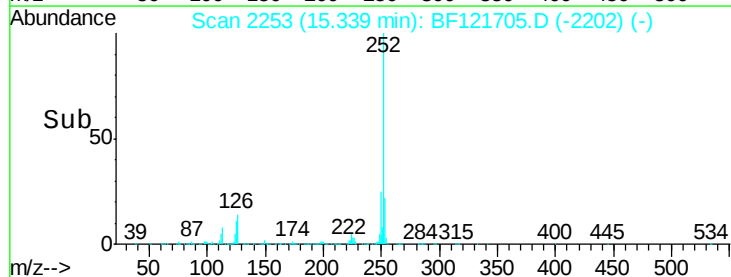
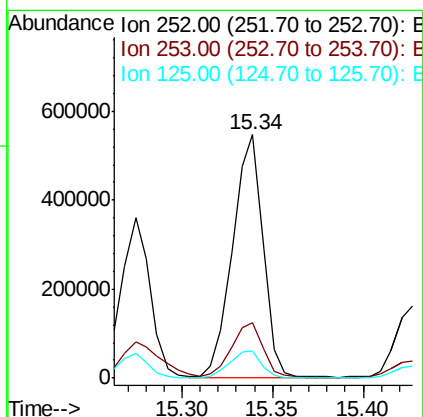
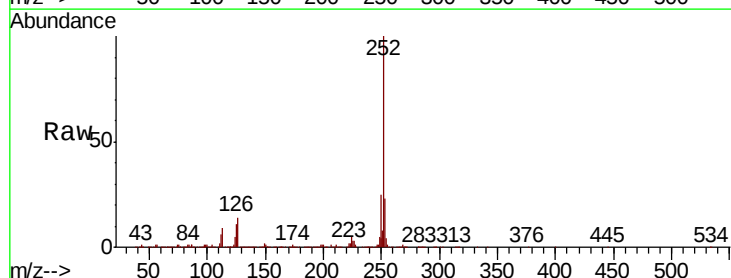
Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

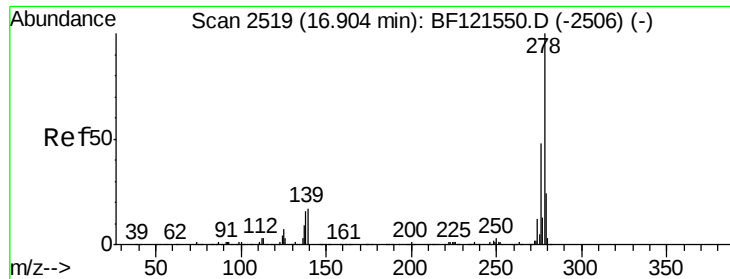
Tot Ion:252 Resp: 1263049
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 11.5 7.1 10.7#



#90
Benzo(a)pyrene
Concen: 25.989 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.00 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:252 Resp: 638599
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 11.0 9.2 13.8

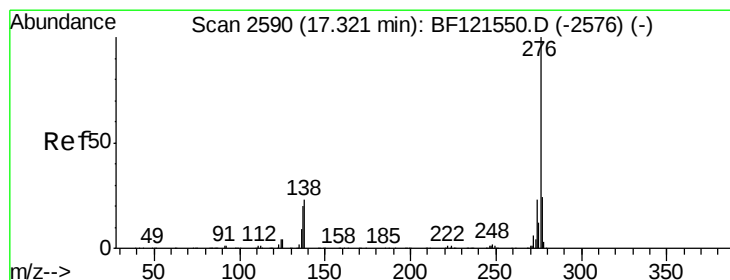
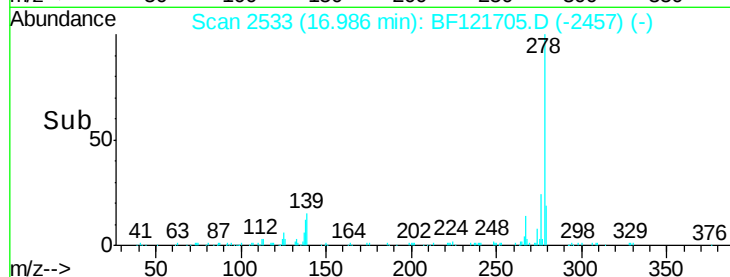
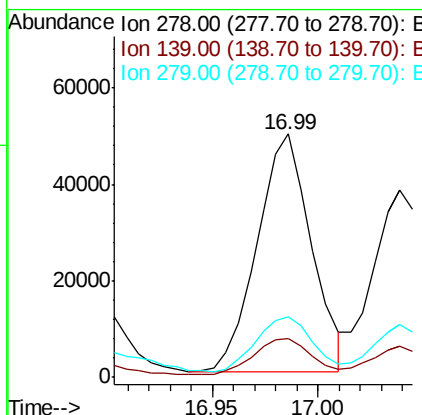
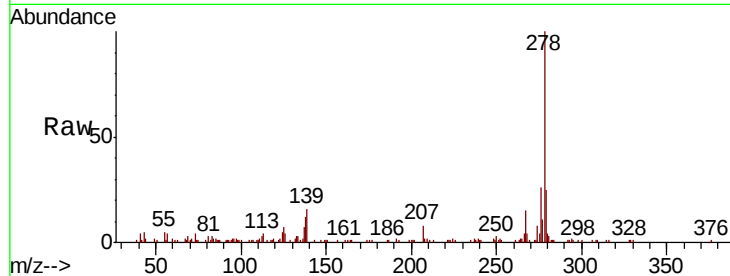




#91
Dibenzo(a,h)anthracene
Concen: 3.765 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.15 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Instrument :
BNA_F
ClientSampleId :
WR-PILE-3-4DL

Tot Ion:278 Resp: 88258
Ion Ratio Lower Upper
278 100
139 15.9 13.0 19.4
279 24.9 19.3 28.9



#92
Benzo(g,h,i)perylene
Concen: 16.420 ng
RT: 17.24 min Scan# 2577
Delta R.T. -0.01 min
Lab File: BF121705.D
Acq: 28 Sep 2020 11:31

Tgt Ion:276 Resp: 378363
Ion Ratio Lower Upper
276 100
277 22.8 18.8 28.2
138 21.4 16.6 25.0

