

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\
 Data File : BF084478.D
 Acq On : 14 Jan 2016 9:12
 Operator : SJ/UM
 Sample : H1077-01 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-1-20160108

Quant Time: Jan 14 11:20:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 04 12:22:40 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	320179	20.00	ng	-0.07
21) Naphthalene-d8	8.12	136	1320283	20.00	ng	-0.07
38) Acenaphthene-d10	9.87	164	541472	20.00	ng	-0.08
63) Phenanthrene-d10	11.36	188	903400	20.00	ng	-0.07
75) Chrysene-d12	13.99	240	596096	20.00	ng	-0.08
86) Perylene-d12	15.41	264	602819	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	504626	25.49	ng	-0.07
7) Phenol-d6	6.46	99	619998	24.94	ng	-0.07
23) Nitrobenzene-d5	7.39	82	358427	15.11	ng	-0.08
41) 2,4,6-Tribromophenol	10.66	330	119969	21.95	ng	-0.08
44) 2-Fluorobiphenyl	9.20	172	653307	16.10	ng	-0.07
78) Terphenyl-d14	12.93	244	372420	13.95	ng	-0.08

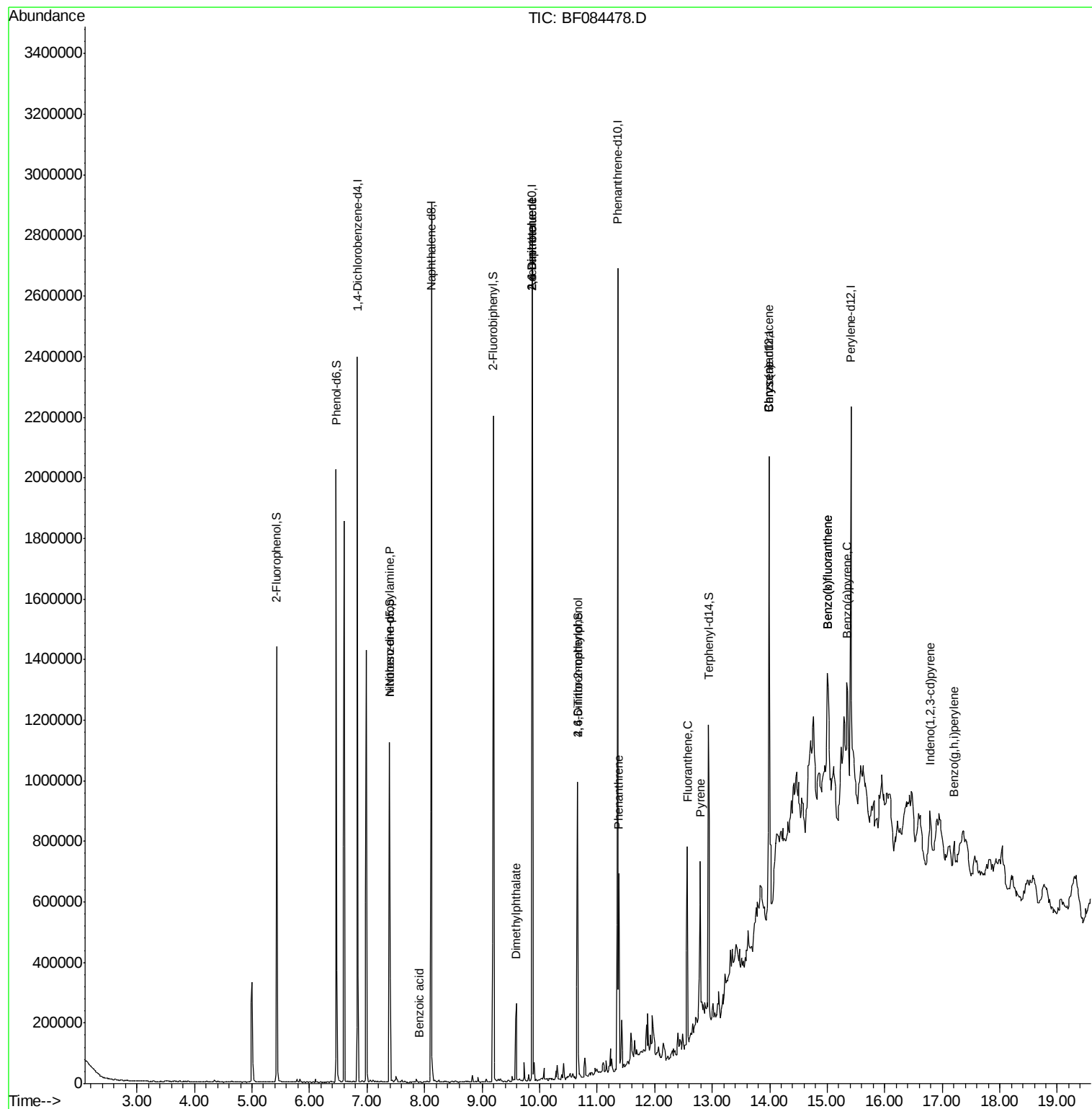
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	47861	2.84	ng	# 73
32) Benzoic acid	7.92	122	351	6.27	ng	# 1
49) Dimethylphthalate	9.60	163	152773	3.95	ng	# 92
50) 2,6-Dinitrotoluene	9.87	165	69274	8.16	ng	# 38
54) Dibenzofuran	10.08	168	12293	Below Cal		99
56) 2,4-Dinitrotoluene	9.87	165	69261	6.45	ng	# 21
57) Fluorene	10.42	166	16010	Below Cal		95
64) 4,6-Dinitro-2-methylphenol	10.66	198	229	6.46	ng	# 1
70) Phenanthrene	11.38	178	224898	4.76	ng	# 99
73) Di-n-butylphthalate	11.93	149	7010	Below Cal		# 70
74) Fluoranthene	12.57	202	305995	6.20	ng	94
77) Pvrene	12.80	202	279015	5.96	ng	98
80) Benzo(a)anthracene	13.99	228	151254	4.32	ng	95
82) Chrysene	13.99	228	151254	4.50	ng	99
85) Indeno(1,2,3-cd)pyrene	16.79	276	76791	2.88	ng	95
87) Benzo(b)fluoranthene	15.00	252	233651	5.93	ng	# 85
88) Benzo(k)fluoranthene	15.00	252	233651	7.24	ng	# 88
89) Benzo(a)pyrene	15.35	252	127529	3.81	ng	# 77
91) Benzo(a,h,i)perylene	17.21	276	74899	2.51	ng	95

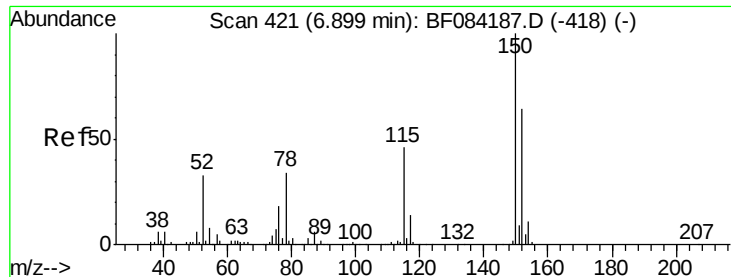
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
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QLast Update : Mon Jan 04 12:22:40 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

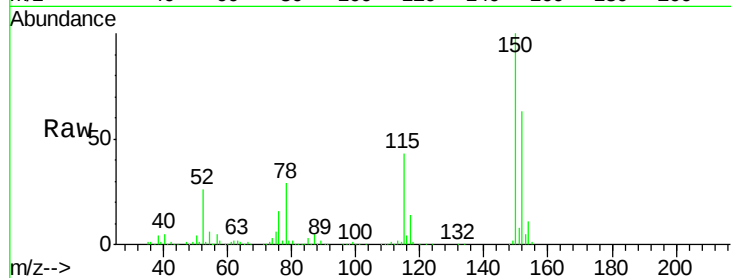
Tot Ion:152 Resp: 320179

Ion Ratio Lower Upper

152 100

150 158.0 123.0 184.4

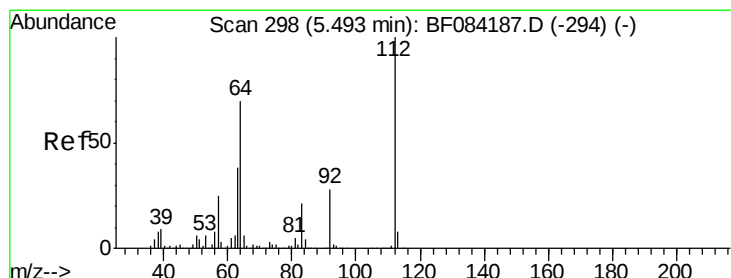
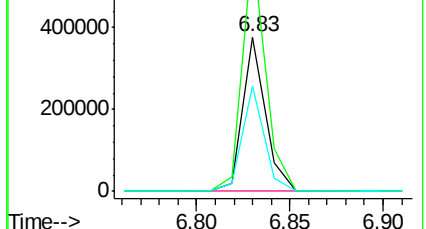
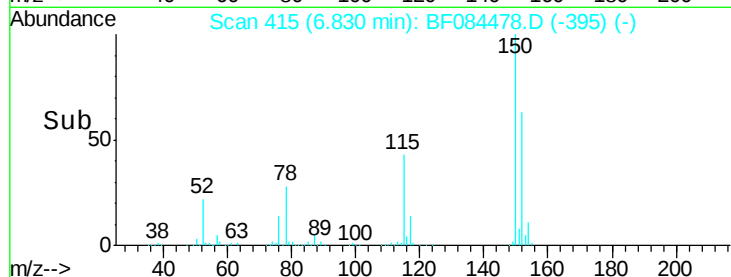
115 68.5 51.4 77.2



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: 25.49 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

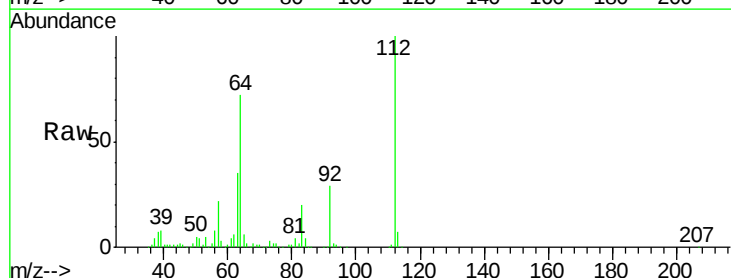
Tgt Ion:112 Resp: 504626

Ion Ratio Lower Upper

112 100

64 71.6 36.6 55.0#

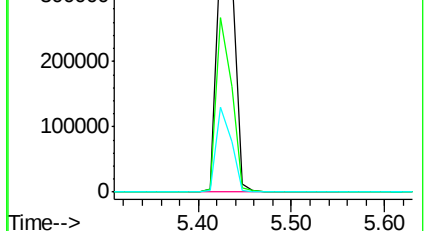
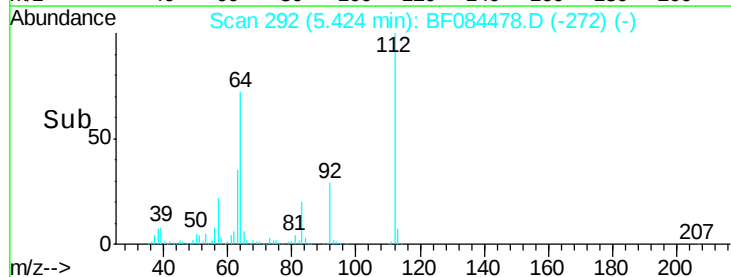
63 35.0 19.4 29.0#

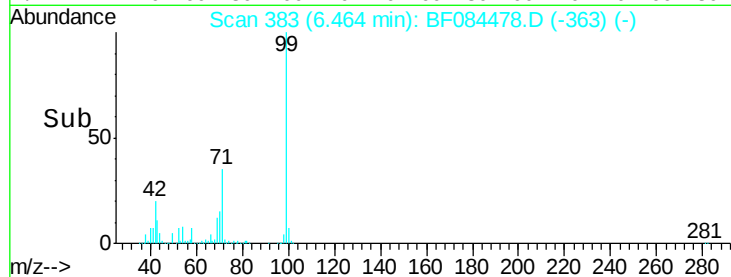
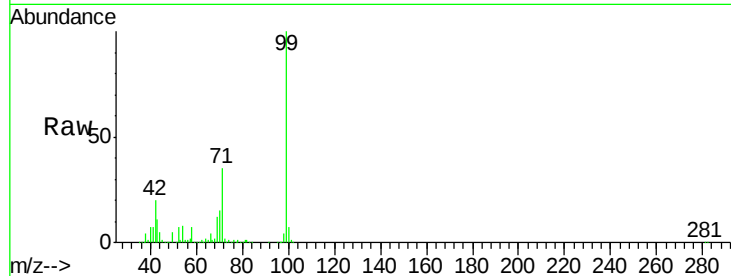
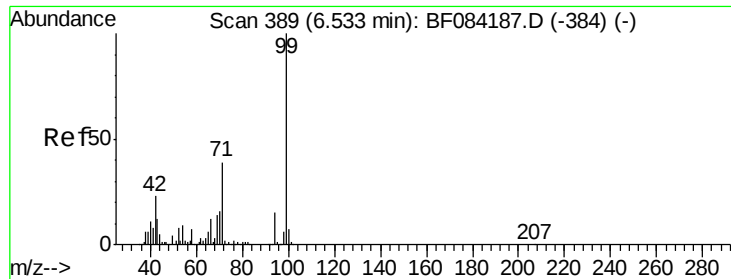


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 24.94 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

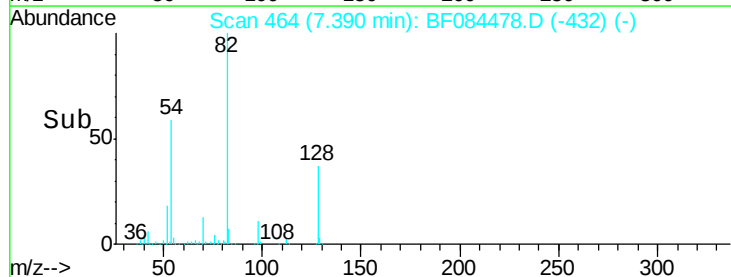
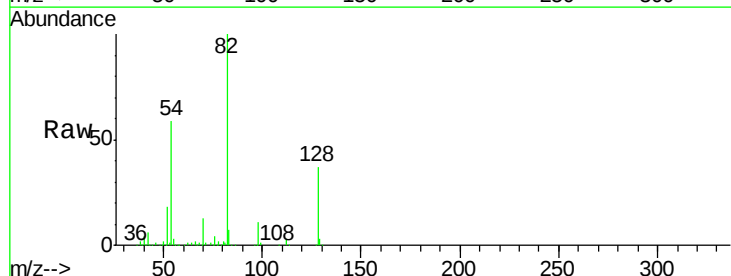
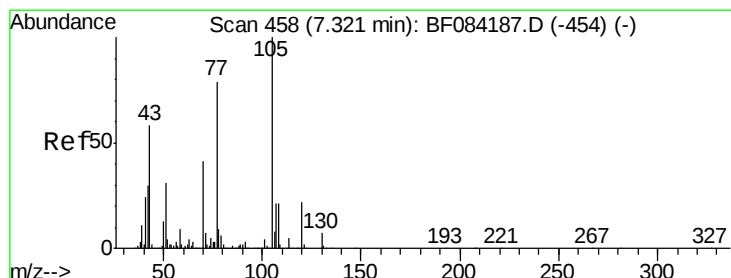
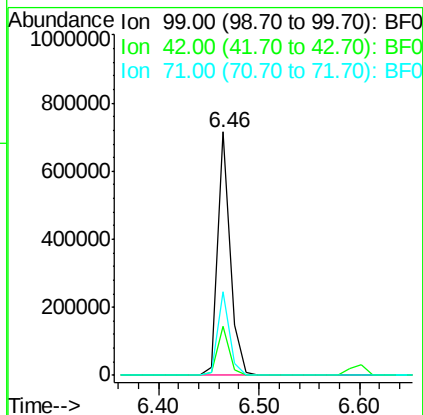
Tot Ion: 99 Resp: 619998

Ion Ratio Lower Upper

99 100

42 20.3 12.8 19.2#

71 34.5 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 2.84 ng

RT: 7.39 min Scan# 464

Delta R.T. 0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Tgt Ion: 70 Resp: 47861

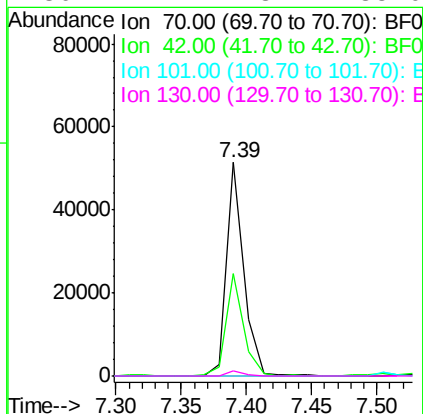
Ion Ratio Lower Upper

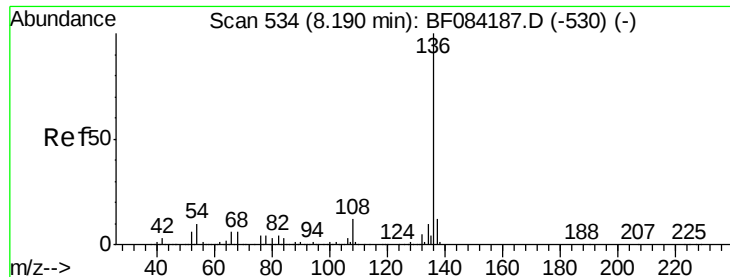
70 100

42 48.1 33.3 49.9

101 0.0 9.3 13.9#

130 2.4 23.4 35.0#

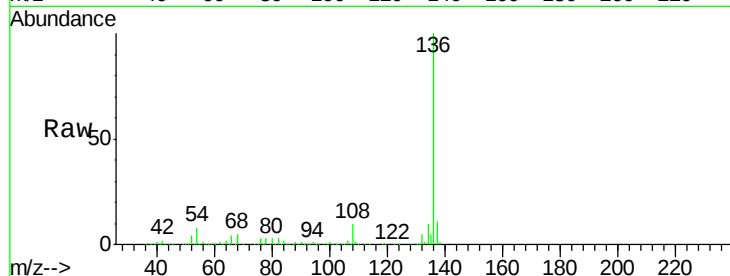




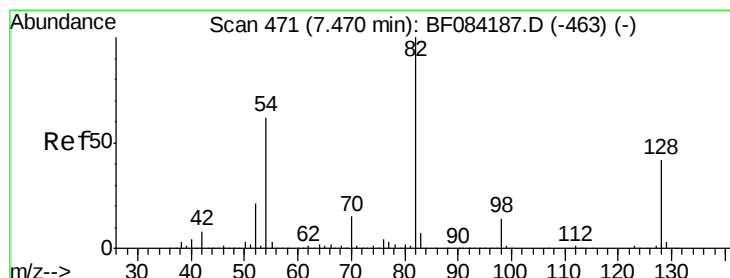
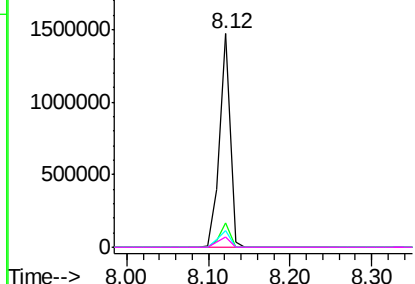
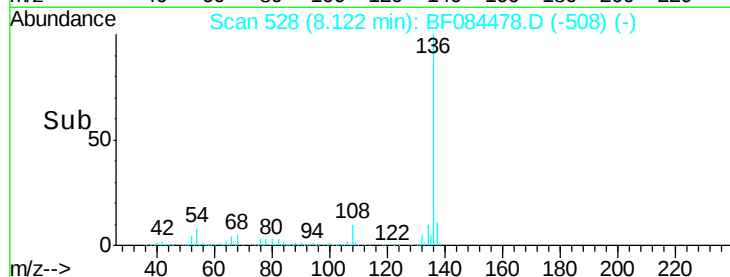
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.07 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Instrument :
BNA_F
ClientSampleId :
POST-EX-1-20160108

Tot Ion:136 Resp: 1320283
Ion Ratio Lower Upper
136 100
137 11.5 8.7 13.1
54 7.6 5.8 8.8
68 5.1 4.2 6.2

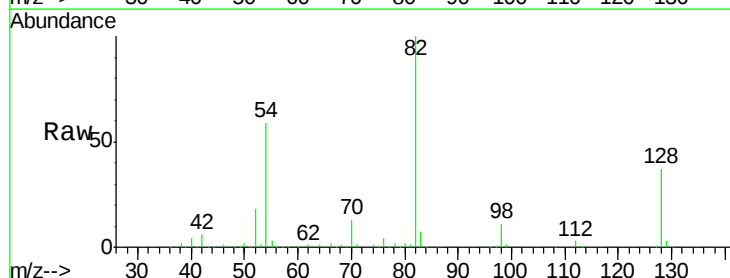


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

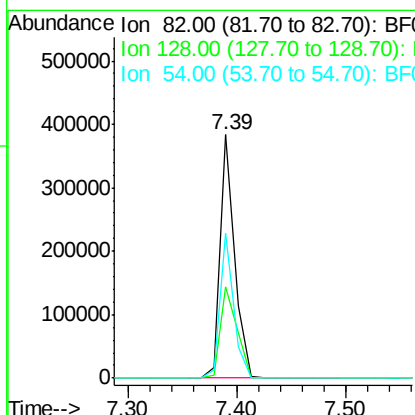
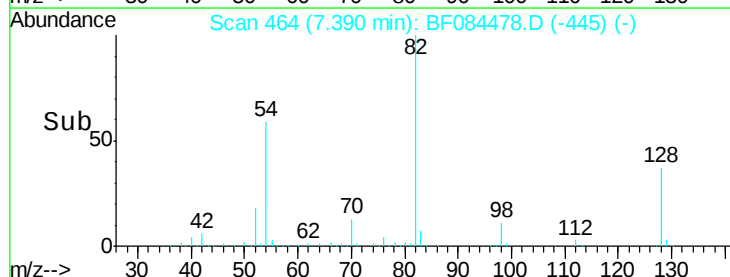


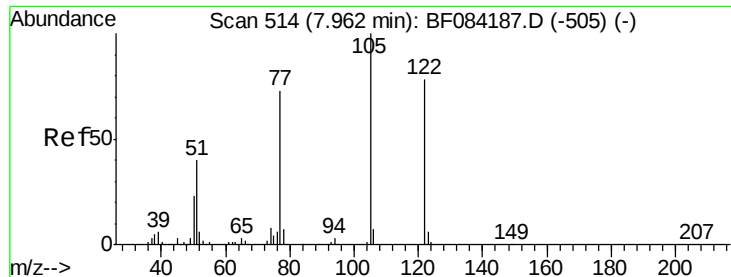
#23
Nitrobenzene-d5
Concen: 15.11 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.08 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Tgt Ion: 82 Resp: 358427
Ion Ratio Lower Upper
82 100
128 37.4 34.6 51.8
54 59.4 38.4 57.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 6.27 ng

RT: 7.92 min Scan# 510

Delta R.T. -0.05 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

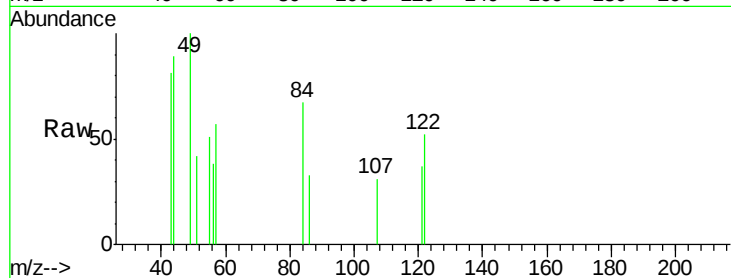
BNA_F

ClientSampleId :

POST-EX-1-20160108

Tot Ion:122 Resp: 351

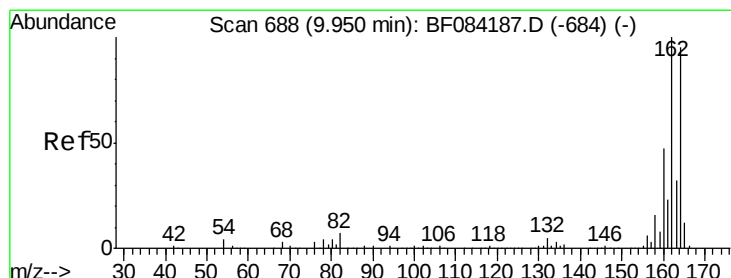
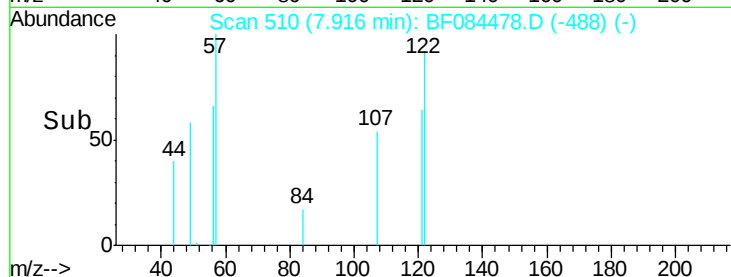
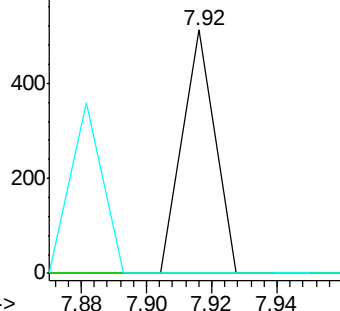
Ion	Ratio	Lower	Upper
122	100		
105	0.0	100.3	140.3#
77	0.0	63.5	103.5#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

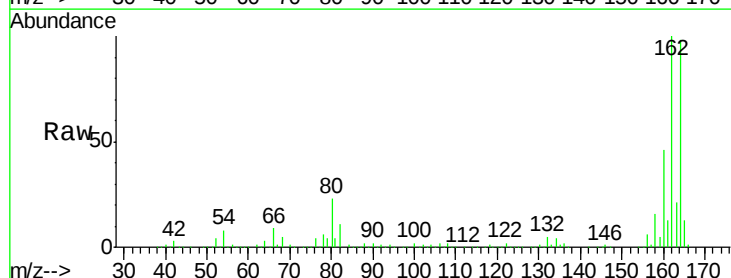
Delta R.T. -0.08 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Tgt Ion:164 Resp: 541472

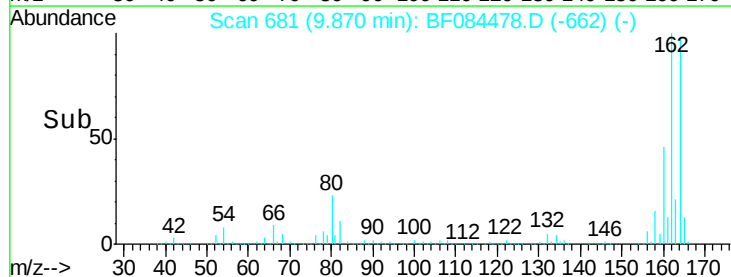
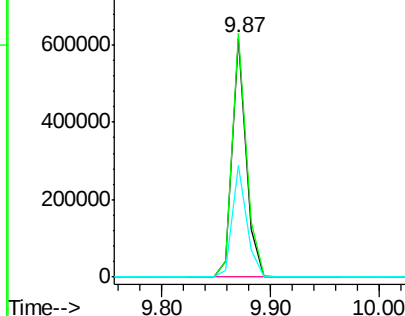
Ion	Ratio	Lower	Upper
164	100		
162	101.9	85.1	127.7
160	47.0	37.5	56.3

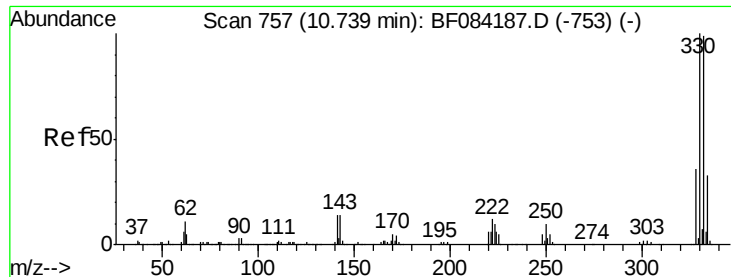


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

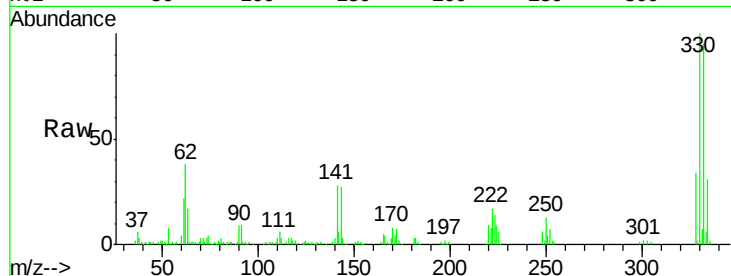




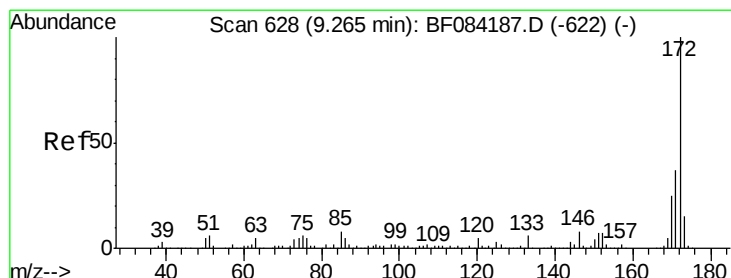
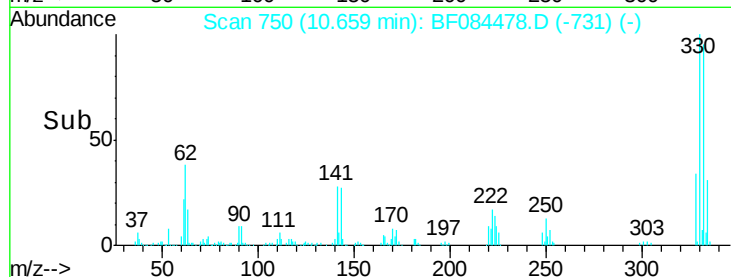
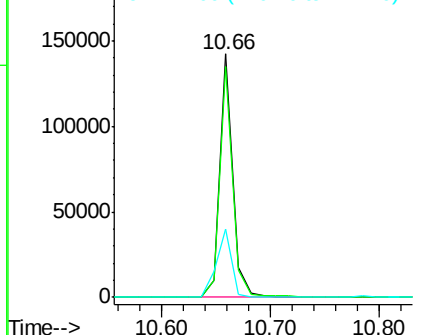
#41
 2,4,6-Tribromophenol
 Concen: 21.95 ng
 RT: 10.66 min Scan# 750
 Delta R.T. -0.08 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

Instrument :
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 POST-EX-1-20160108

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.6	114.8
141	34.4	27.8	41.6

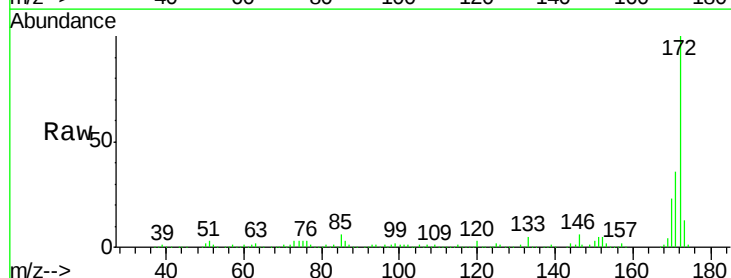


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

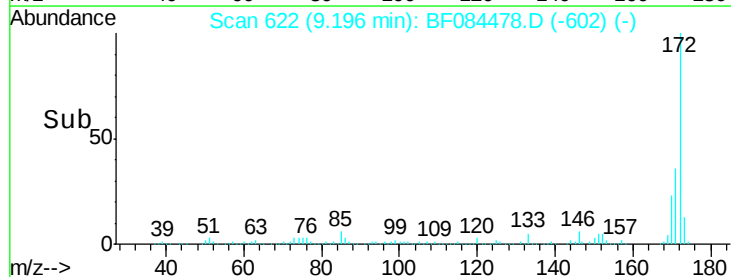
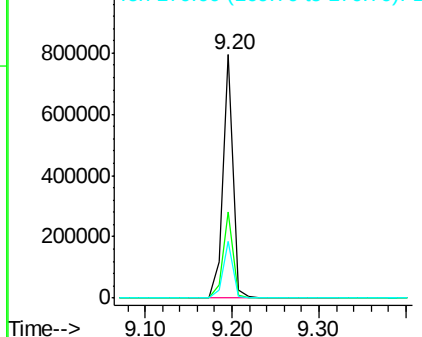


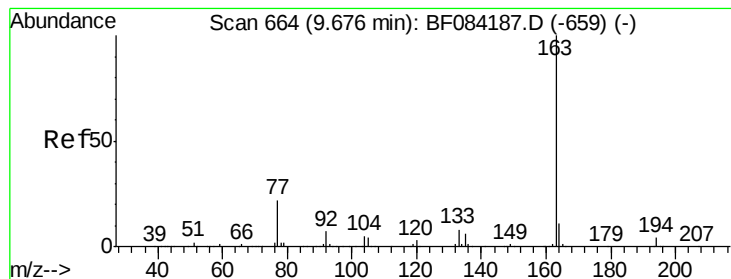
#44
 2-Fluorobiphenyl
 Concen: 16.10 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.07 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.9	43.3
170	23.3	18.6	27.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 3.95 ng

RT: 9.60 min Scan# 657

Delta R.T. -0.08 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

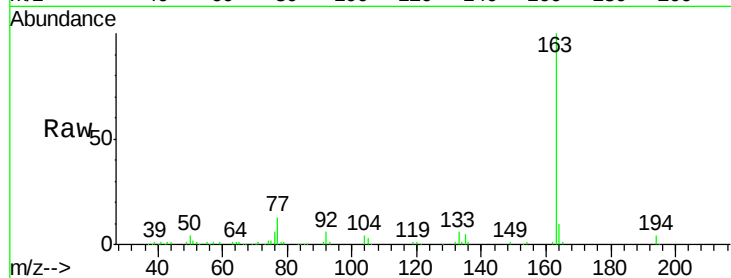
Tot Ion:163 Resp: 152773

Ion Ratio Lower Upper

163 100

194 3.8 8.0 12.0#

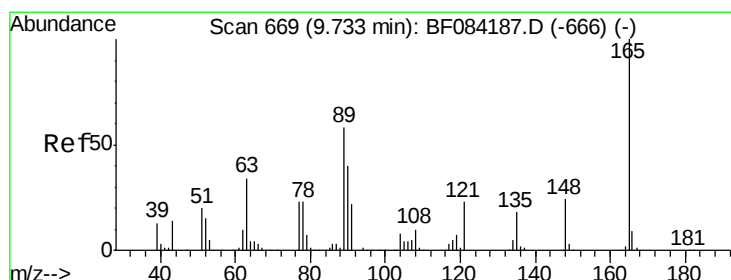
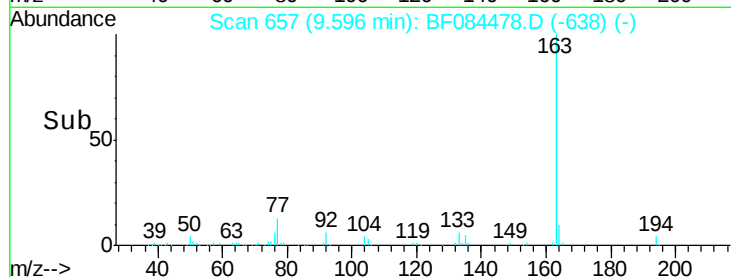
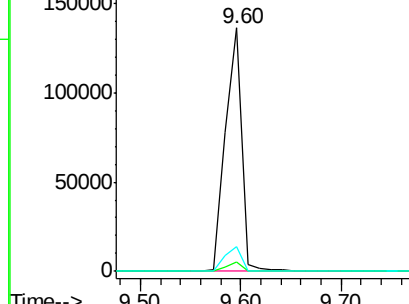
164 10.0 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.16 ng

RT: 9.87 min Scan# 681

Delta R.T. 0.14 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

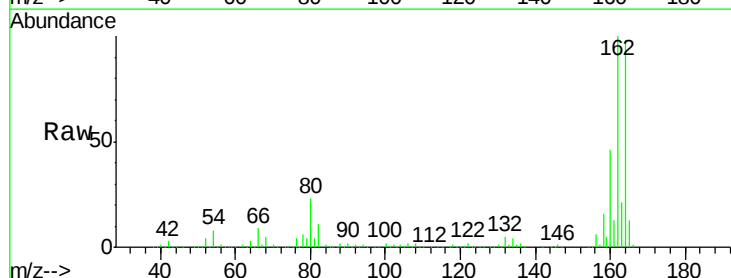
Tgt Ion:165 Resp: 69274

Ion Ratio Lower Upper

165 100

63 1.5 28.8 43.2#

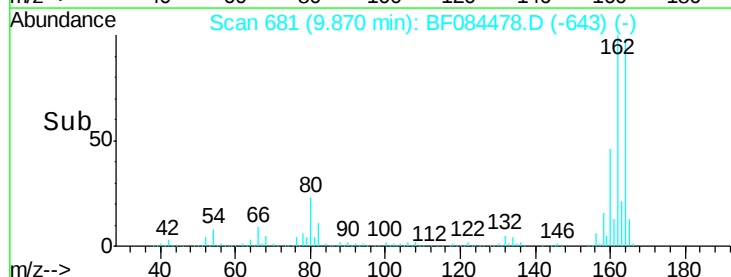
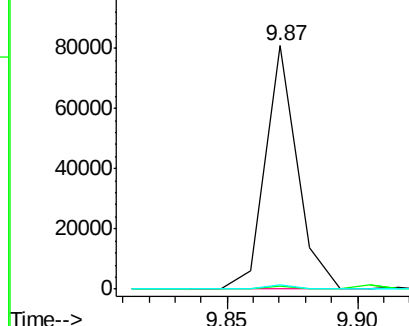
89 1.5 35.1 52.7#

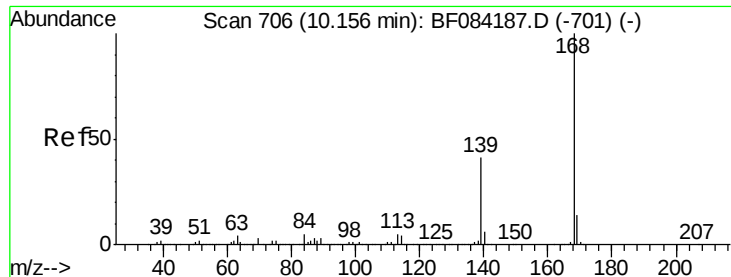


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

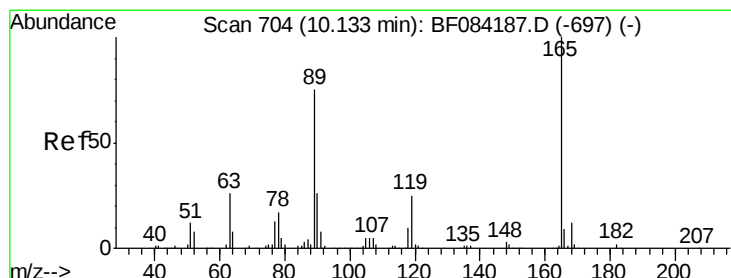
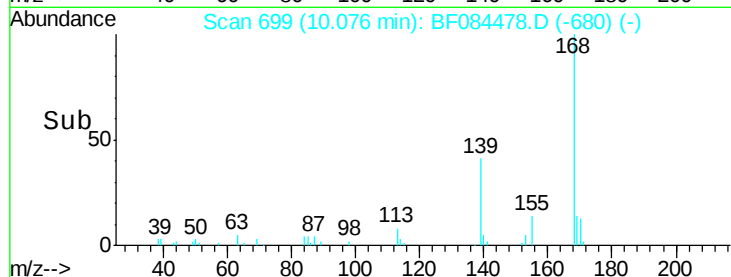
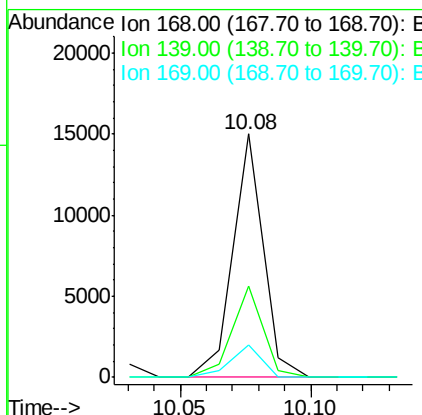
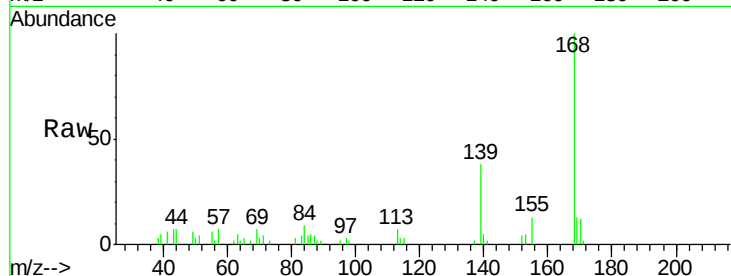




#54
Dibenzofuran
Concen: Below Cal
RT: 10.08 min Scan# 699
Delta R.T. -0.08 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

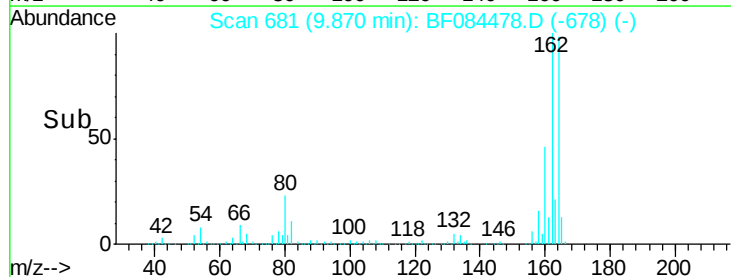
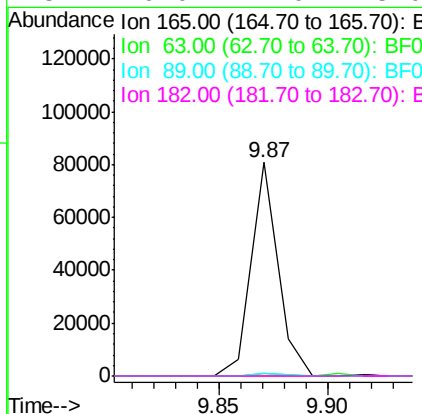
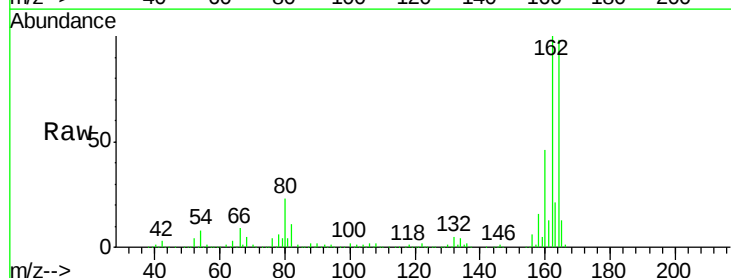
Instrument :
BNA_F
ClientSampleId :
POST-EX-1-20160108

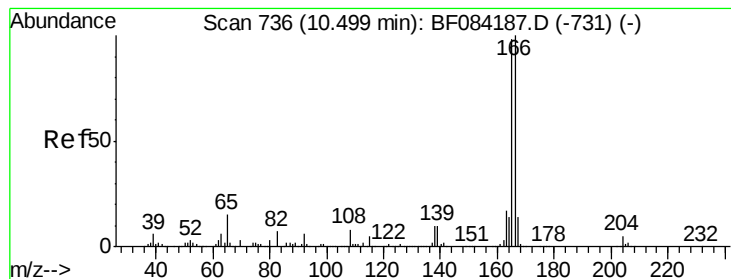
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.5	30.5	45.7
169	13.3	10.4	15.6



#56
2,4-Dinitrotoluene
Concen: 6.45 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.26 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	36.7	55.1#
89	1.5	61.9	92.9#
182	0.0	2.0	3.0#





#57

Fluorene

Concen: Below Cal

RT: 10.42 min Scan# 729

Delta R.T. -0.08 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

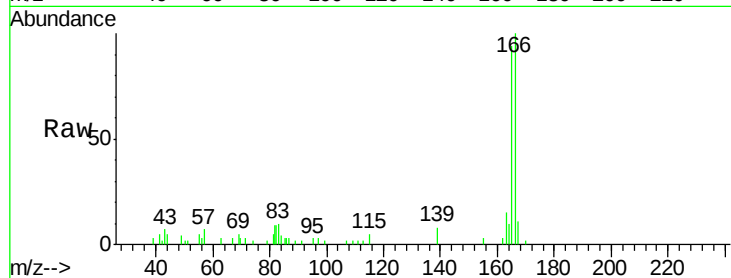
Tot Ion:166 Resp: 16010

Ion Ratio Lower Upper

166 100

165 94.4 79.1 118.7

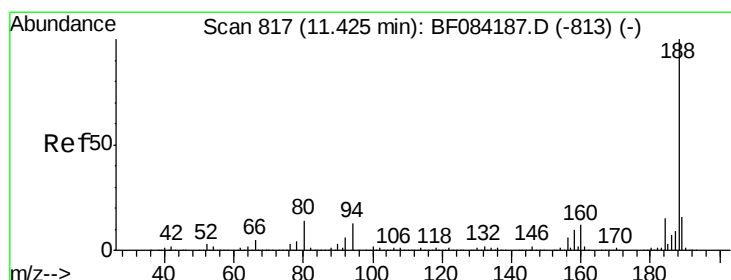
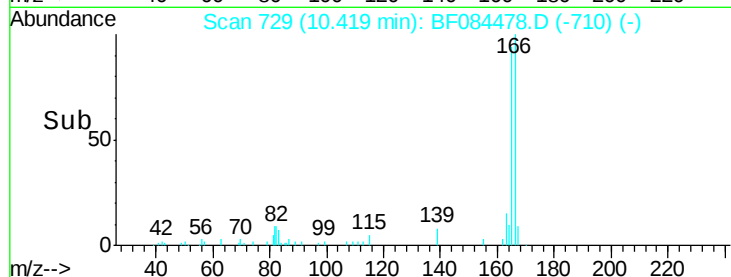
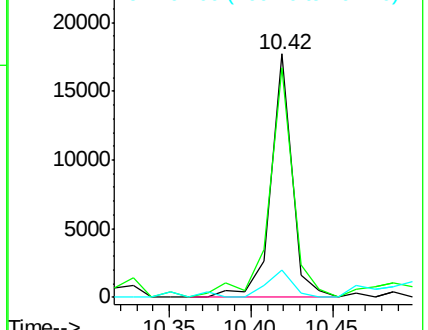
167 11.0 10.4 15.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

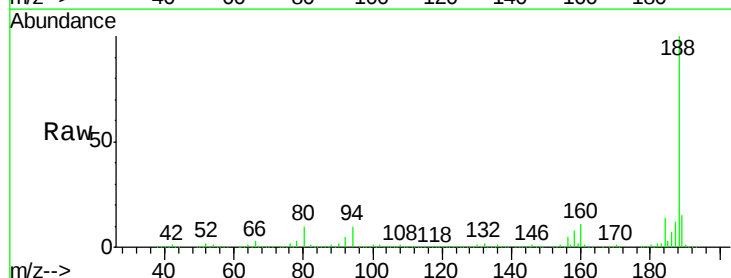
Tgt Ion:188 Resp: 903400

Ion Ratio Lower Upper

188 100

94 9.6 9.0 13.4

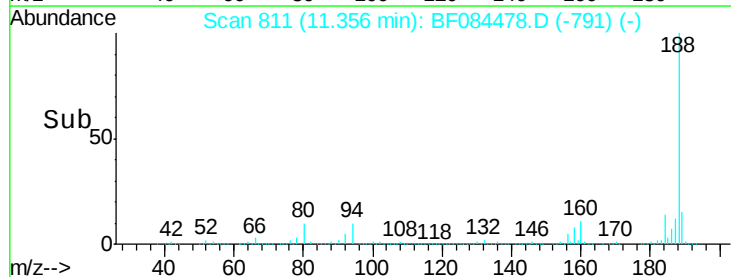
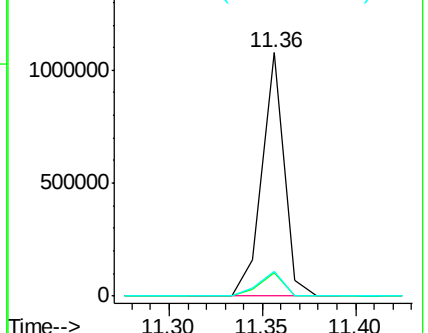
80 10.2 9.6 14.4

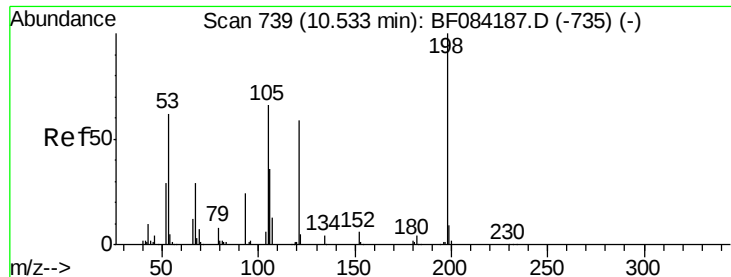


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

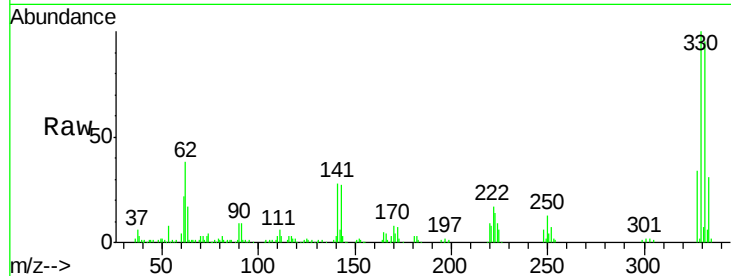




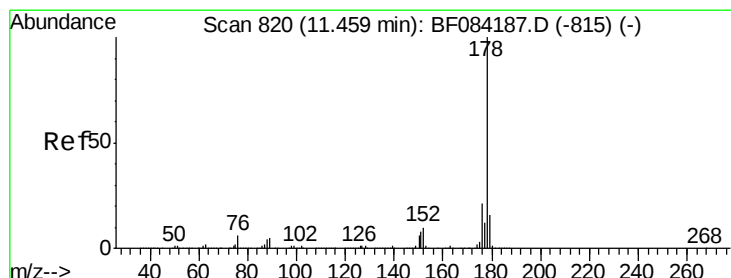
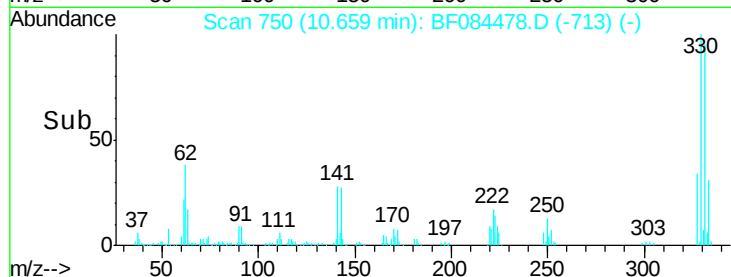
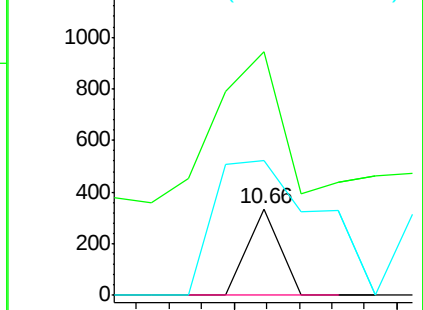
#64
 4,6-Dinitro-2-methylphenol
 Concen: 6.46 ng
 RT: 10.66 min Scan# 750
 Delta R.T. 0.13 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-1-20160108

Tot Ion:198 Resp: 229
 Ion Ratio Lower Upper
 198 100
 51 282.3 18.9 58.9#
 105 155.7 26.4 66.4#

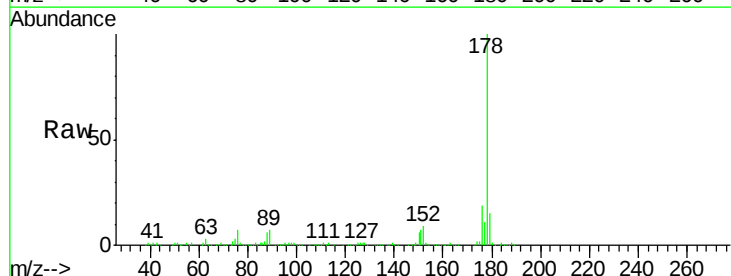


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF0
 Ion 105.00 (104.70 to 105.70): E

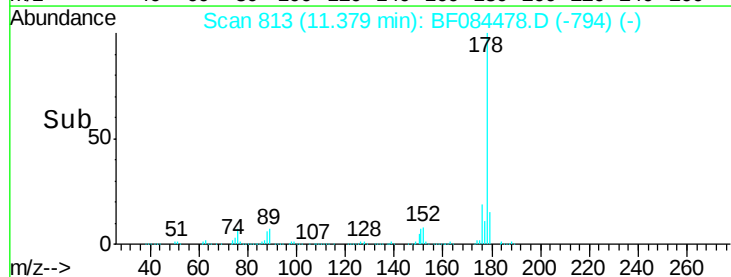
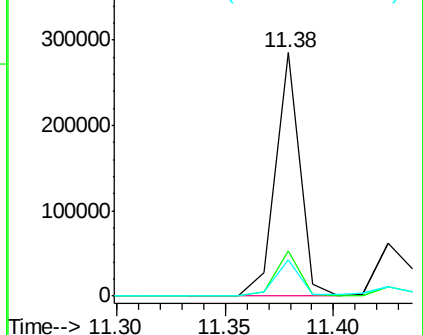


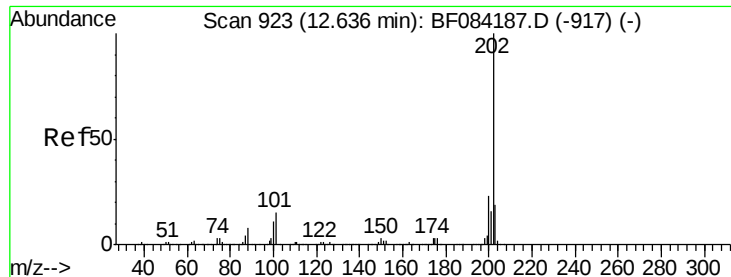
#70
 Phenanthrene
 Concen: 4.76 ng
 RT: 11.38 min Scan# 813
 Delta R.T. -0.08 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

Tgt Ion:178 Resp: 224898
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.3 22.9
 179 14.9 12.0 18.0



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

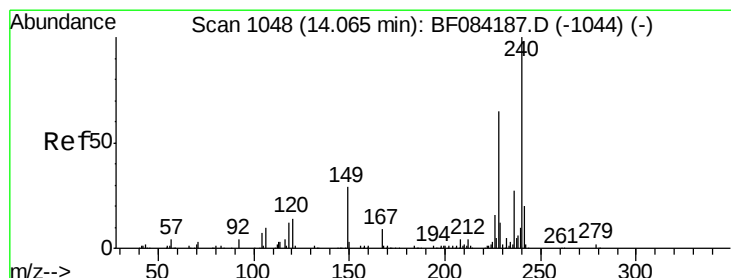
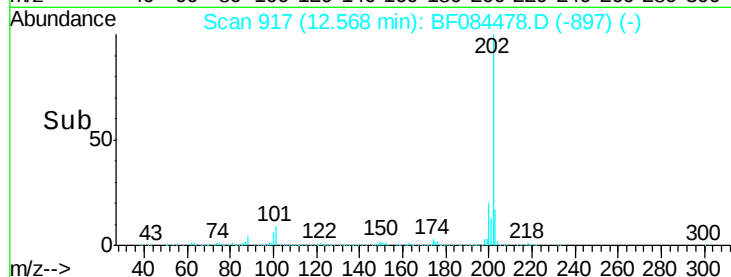
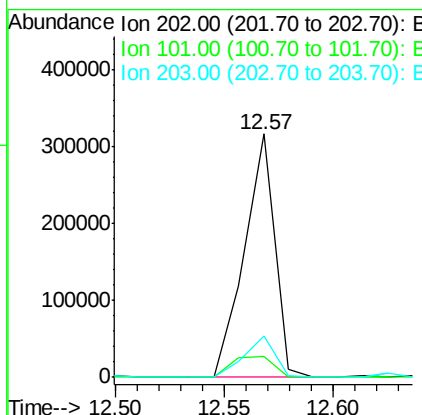
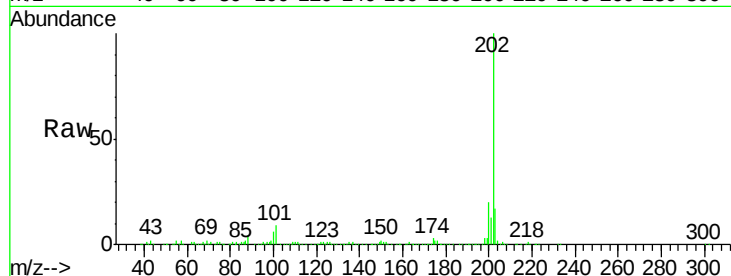




#74
Fluoranthene
Concen: 6.20 ng
RT: 12.57 min Scan# 917
Delta R.T. -0.07 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

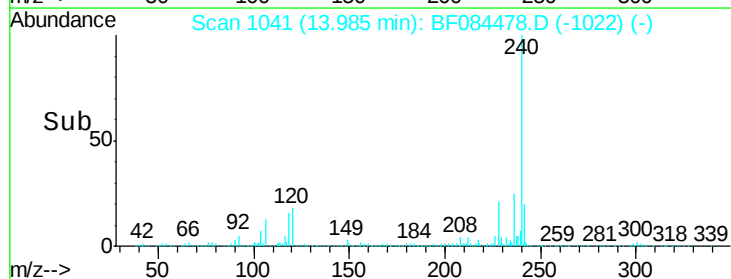
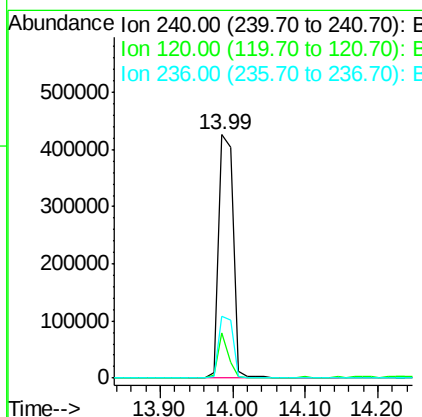
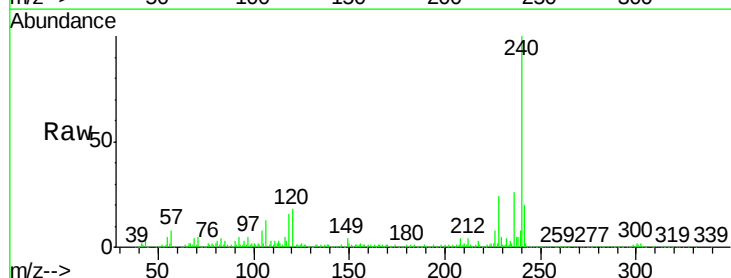
Instrument :
BNA_F
ClientSampleId :
POST-EX-1-20160108

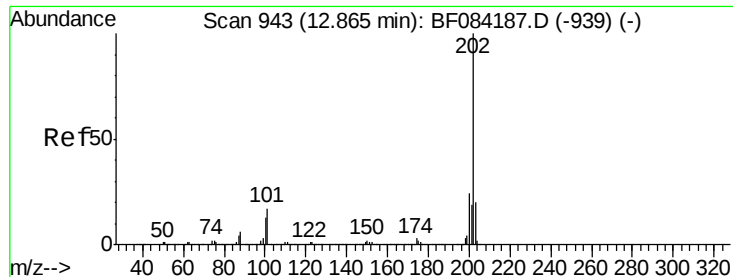
Tot Ion	Ratio	Lower	Upper
202	100		
101	8.6	0.0	32.8
203	17.0	0.0	37.9



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.99 min Scan# 1041
Delta R.T. -0.08 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.5	9.5	14.3#
236	25.5	20.6	31.0





#77

Pvrene

Concen: 5.96 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

Tot Ion:202 Resp: 279015

Ion Ratio Lower Upper

202 100

200 20.5 17.2 25.8

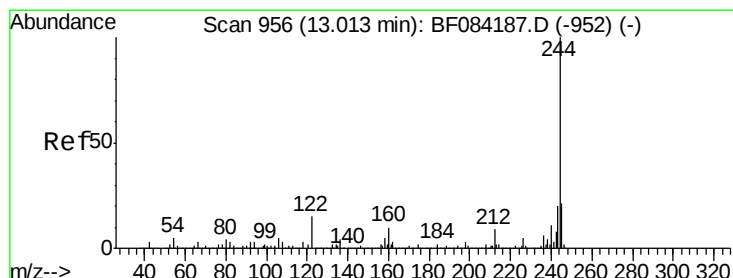
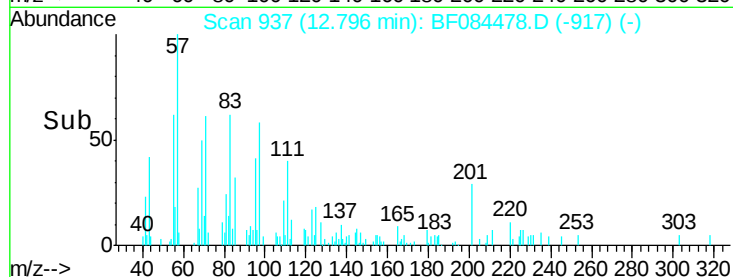
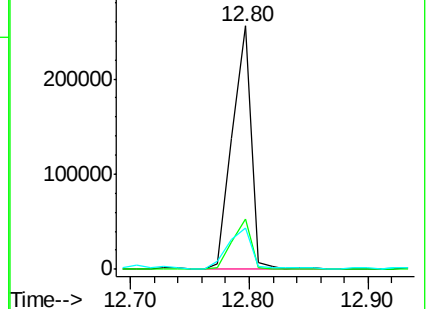
203 17.0 14.3 21.5



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



#78

Terphenyl-d14

Concen: 13.95 ng

RT: 12.93 min Scan# 949

Delta R.T. -0.08 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

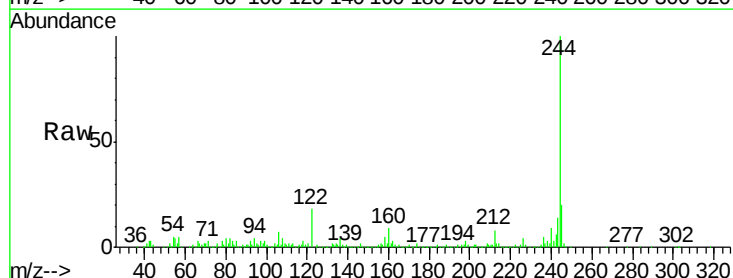
Tgt Ion:244 Resp: 372420

Ion Ratio Lower Upper

244 100

212 7.6 5.7 8.5

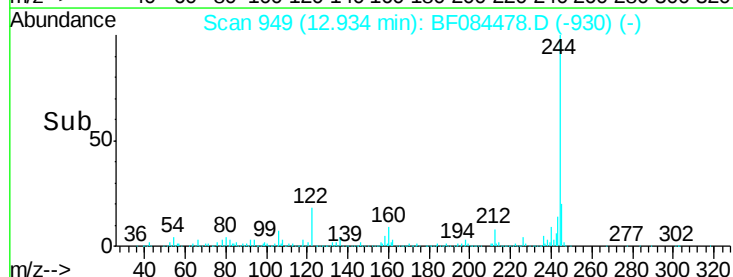
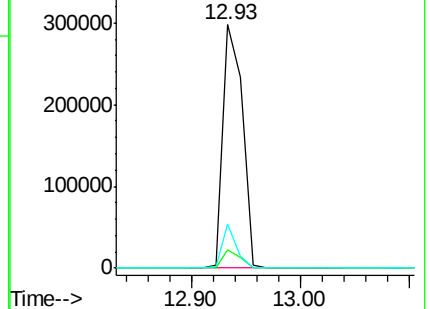
122 17.8 7.4 11.0#

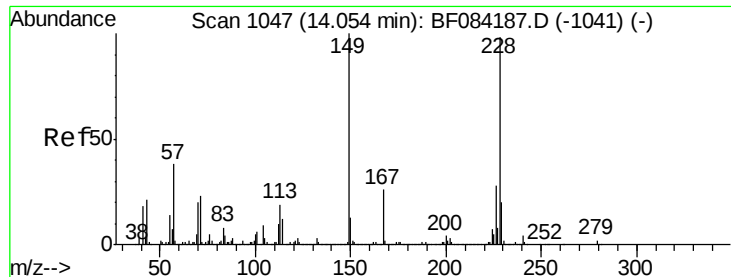


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.32 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.07 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

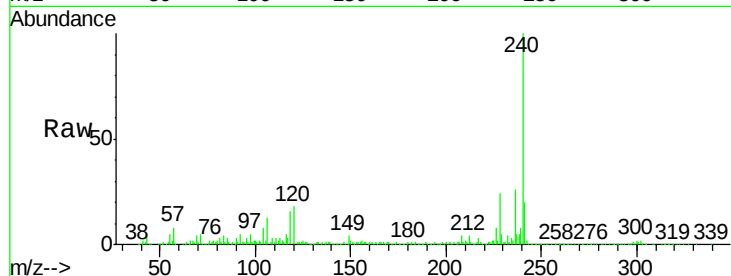
Tot Ion:228 Resp: 151254

Ion Ratio Lower Upper

228 100

226 31.1 21.8 32.6

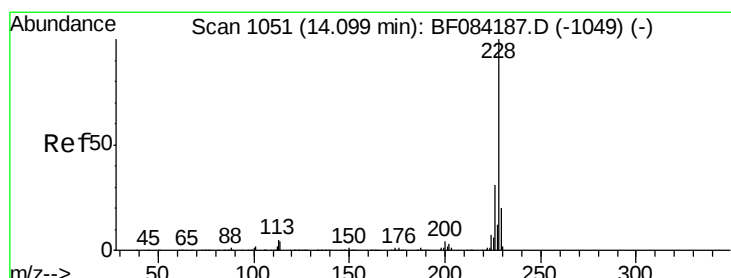
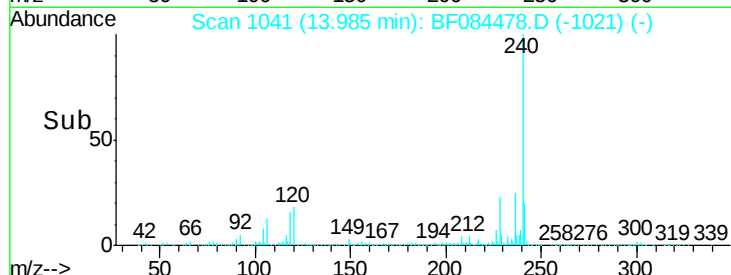
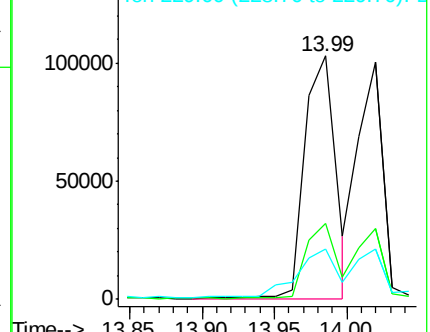
229 20.5 15.8 23.8



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



#82

Chrysene

Concen: 4.50 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.11 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

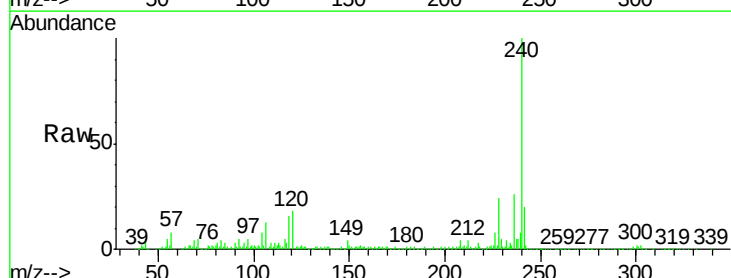
Tgt Ion:228 Resp: 151254

Ion Ratio Lower Upper

228 100

226 31.1 24.3 36.5

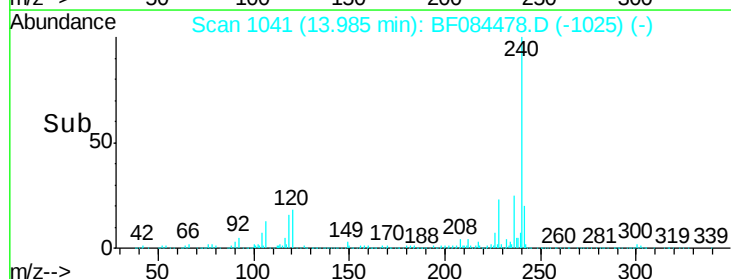
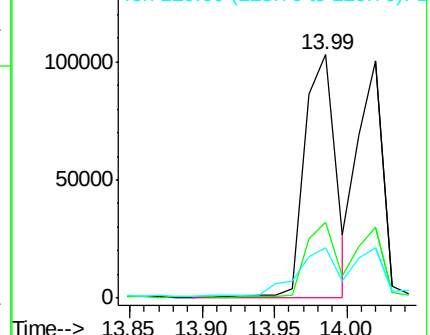
229 20.5 16.1 24.1

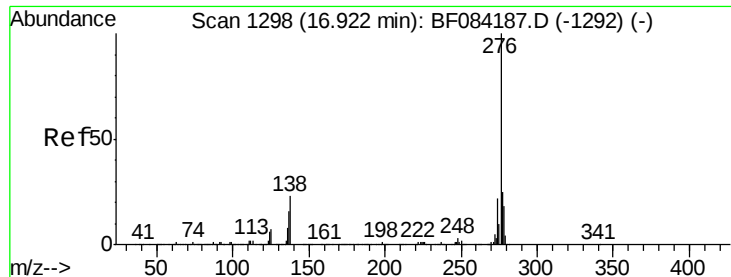


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

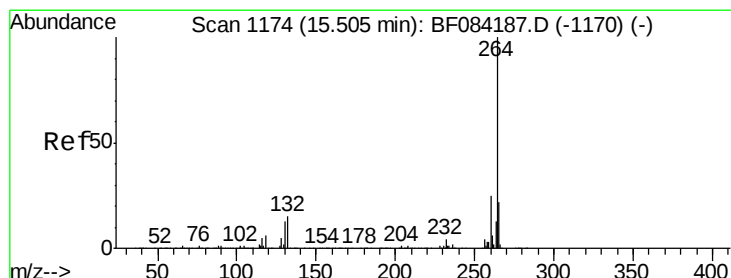
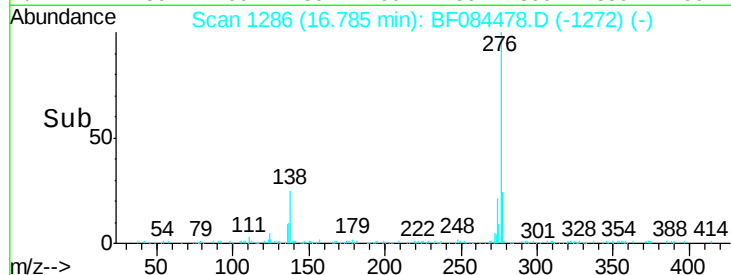
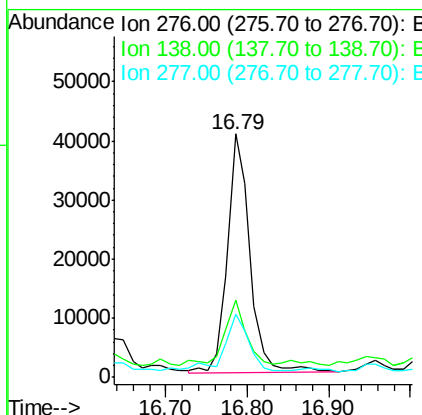
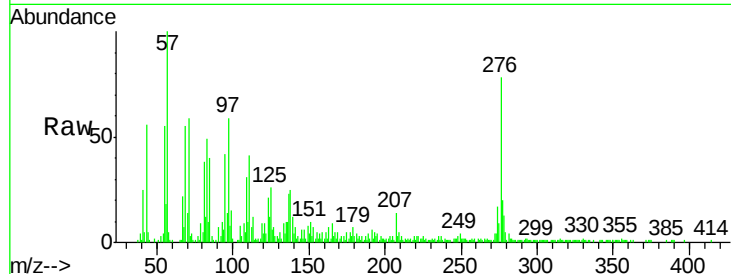




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.88 ng
 RT: 16.79 min Scan# 1286
 Delta R.T. -0.14 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

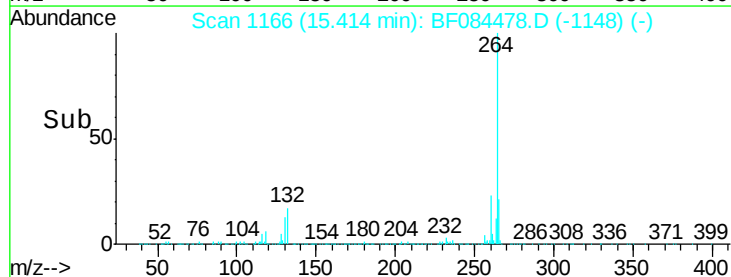
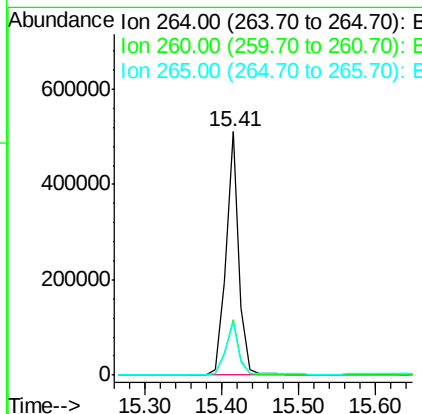
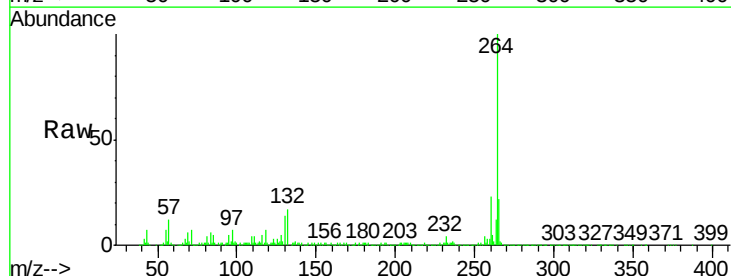
Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-1-20160108

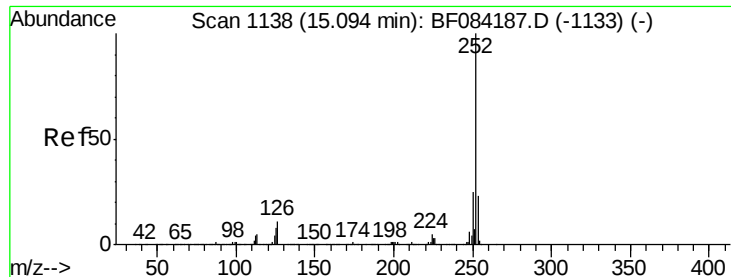
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.6	20.6	30.8
277	28.9	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.41 min Scan# 1166
 Delta R.T. -0.09 min
 Lab File: BF084478.D
 Acq: 14 Jan 2016 9:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.4	29.2
265	21.7	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 5.93 ng

RT: 15.00 min Scan# 1130

Delta R.T. -0.09 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

Instrument :

BNA_F

ClientSampleId :

POST-EX-1-20160108

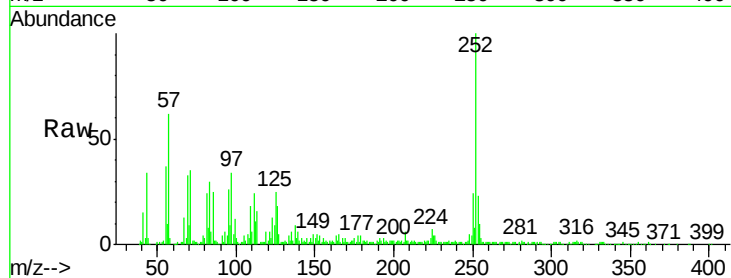
Tot Ion:252 Resp: 233651

Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

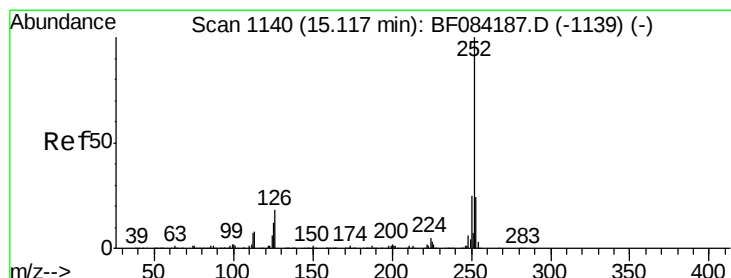
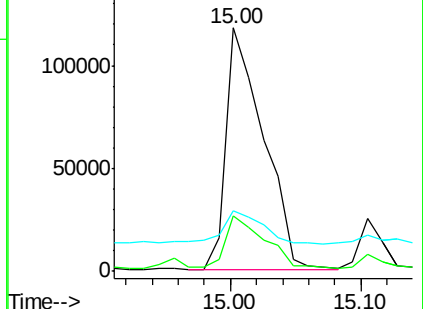
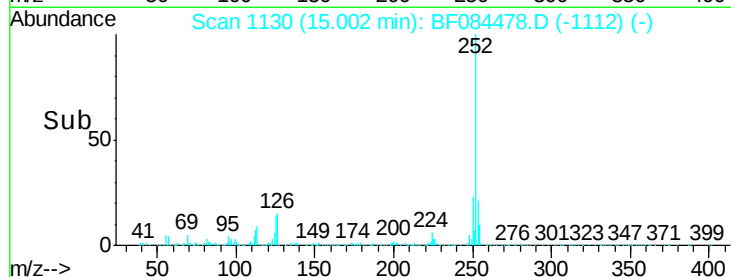
125 25.0 6.5 9.7#



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



#88

Benzo(k)fluoranthene

Concen: 7.24 ng

RT: 15.00 min Scan# 1130

Delta R.T. -0.11 min

Lab File: BF084478.D

Acq: 14 Jan 2016 9:12

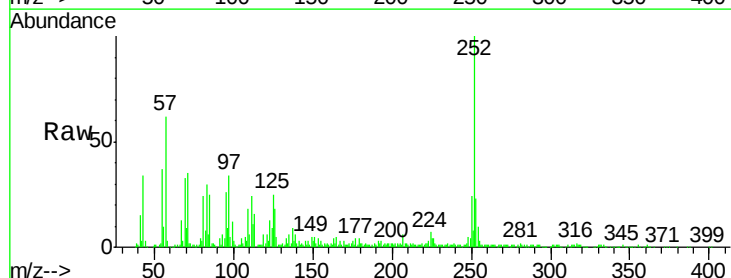
Tgt Ion:252 Resp: 233651

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

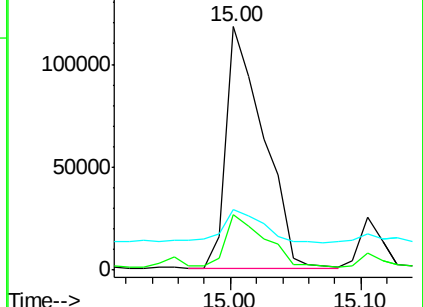
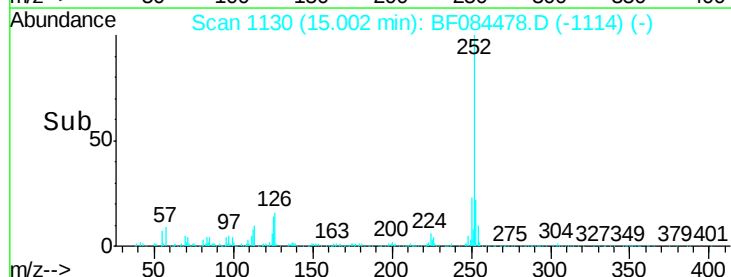
125 25.0 9.0 13.6#

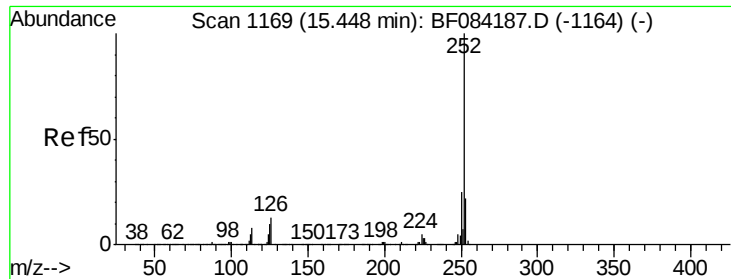


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

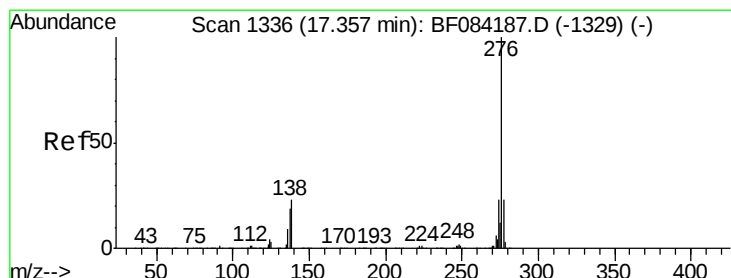
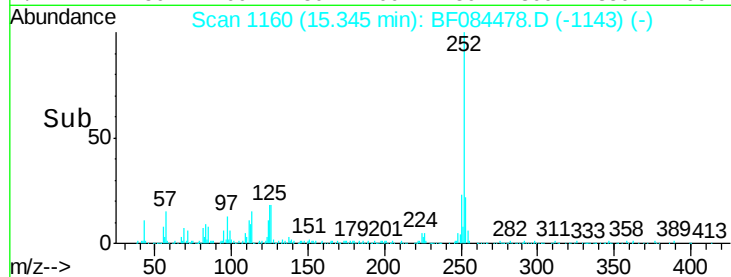
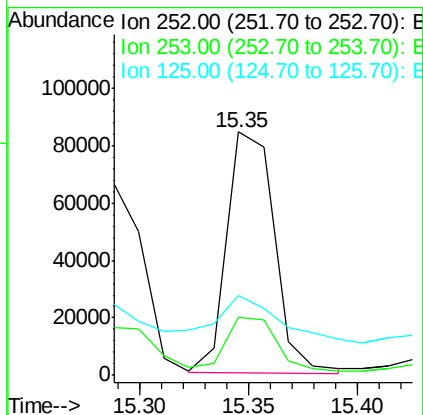
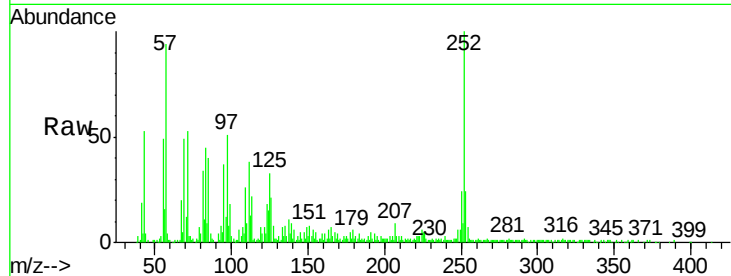




#89
Benzo(a)pyrene
Concen: 3.81 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.10 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Instrument :
BNA_F
ClientSampleId :
POST-EX-1-20160108

Tot Ion:252 Resp: 127529
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 32.7 7.0 10.4#



#91
Benzo(g,h,i)perylene
Concen: 2.51 ng
RT: 17.21 min Scan# 1323
Delta R.T. -0.15 min
Lab File: BF084478.D
Acq: 14 Jan 2016 9:12

Tgt Ion:276 Resp: 74899
Ion Ratio Lower Upper
276 100
277 24.5 18.8 28.2
138 25.8 17.8 26.6

