

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\
 Data File : BF084480.D
 Acq On : 14 Jan 2016 10:07
 Operator : SJ/UM
 Sample : H1077-03 5X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-3-20160108

Quant Time: Jan 14 11:20:54 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	341778	20.00	ng	-0.07
21) Naphthalene-d8	8.12	136	1408859	20.00	ng	-0.07
38) Acenaphthene-d10	9.87	164	588356	20.00	ng	-0.08
63) Phenanthrene-d10	11.36	188	947551	20.00	ng	-0.07
75) Chrysene-d12	13.99	240	681491	20.00	ng	-0.08
86) Perylene-d12	15.41	264	683059	20.00	ng	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	489066	23.15	ng	-0.07
7) Phenol-d6	6.46	99	612357	23.07	ng	-0.07
23) Nitrobenzene-d5	7.39	82	352354	13.92	ng	-0.08
41) 2,4,6-Tribromophenol	10.66	330	108002	18.18	ng	-0.08
44) 2-Fluorobiphenyl	9.20	172	660196	14.49	ng	-0.07
78) Terphenyl-d14	12.93	244	395662	12.96	ng	-0.08

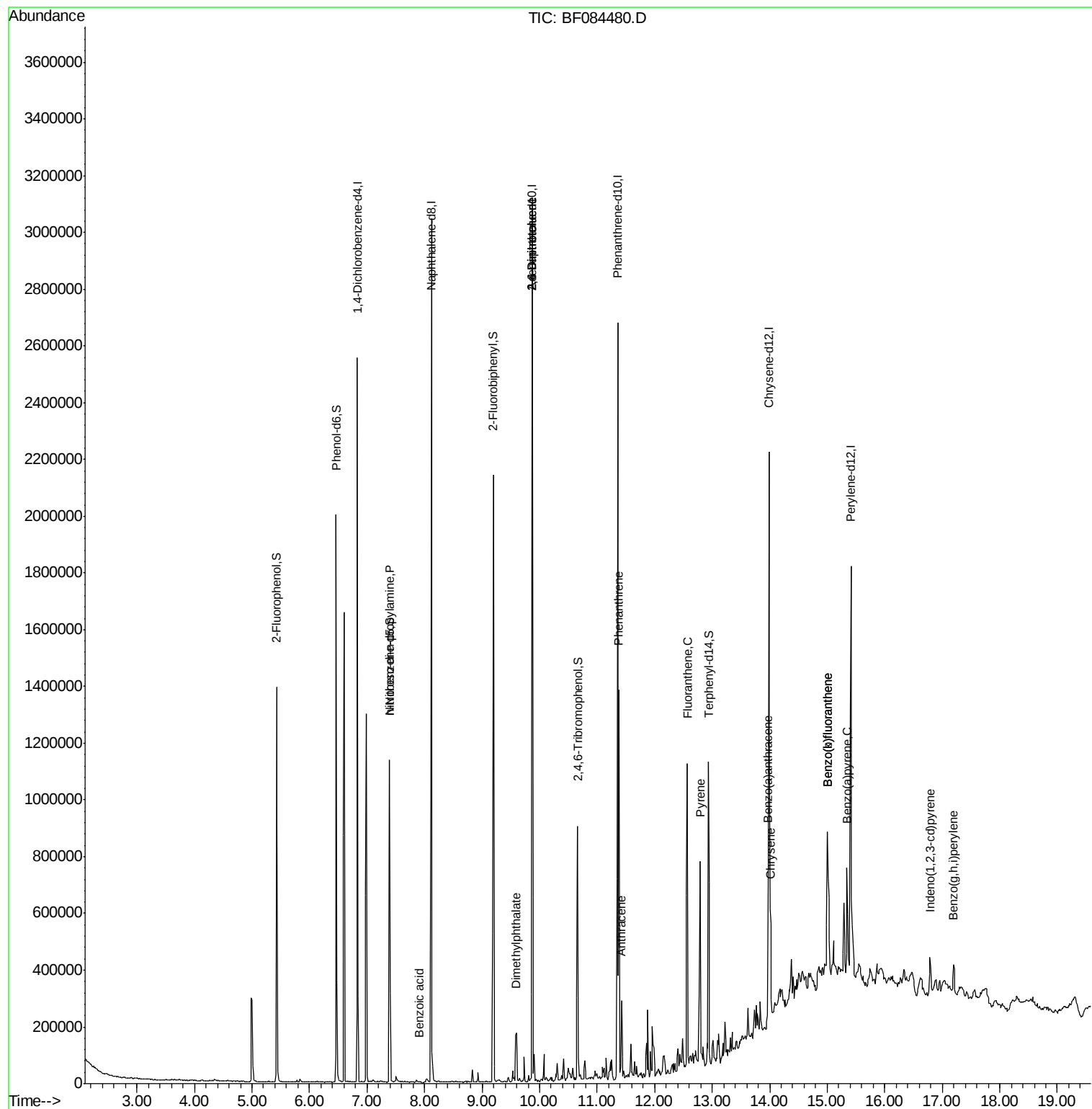
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	47758	2.66	ng	# 70
32) Benzoic acid	7.92	122	435	6.27	ng	# 1
49) Dimethylphthalate	9.60	163	108234	2.57	ng	# 90
50) 2,6-Dinitrotoluene	9.87	165	75270	8.16	ng	# 37
54) Dibenzofuran	10.08	168	31783	Below Cal		97
56) 2,4-Dinitrotoluene	9.87	165	75874	6.50	ng	# 21
57) Fluorene	10.42	166	21661	Below Cal		# 97
70) Phenanthrene	11.38	178	479770	9.68	ng	99
71) Anthracene	11.42	178	109084	2.25	ng	99
73) Di-n-butylphthalate	11.92	149	6293	Below Cal		# 94
74) Fluoranthene	12.57	202	517968	10.00	ng	95
77) Pyrene	12.80	202	421480	7.88	ng	98
80) Benzo(a)anthracene	13.97	228	249142	6.23	ng	98
82) Chrysene	14.02	228	196103	5.10	ng	98
85) Indeno(1,2,3-cd)pyrene	16.79	276	102113	3.35	ng	95
87) Benzo(b)fluoranthene	15.00	252	348528	7.80	ng	# 95
88) Benzo(k)fluoranthene	15.00	252	348528	9.54	ng	# 95
89) Benzo(a)pyrene	15.35	252	182644	4.82	ng	# 92
91) Benzo(a,h,i)perylene	17.20	276	87191	2.58	ng	# 92

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

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QLast Update : Mon Jan 04 12:22:40 2016
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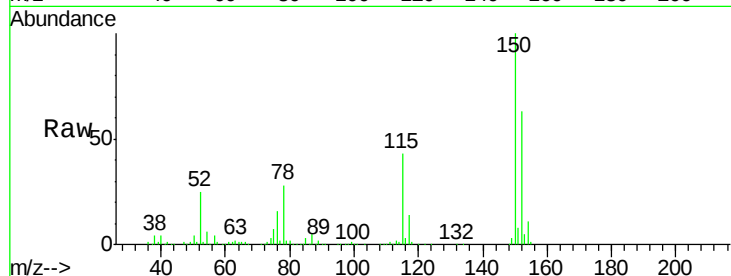


#1

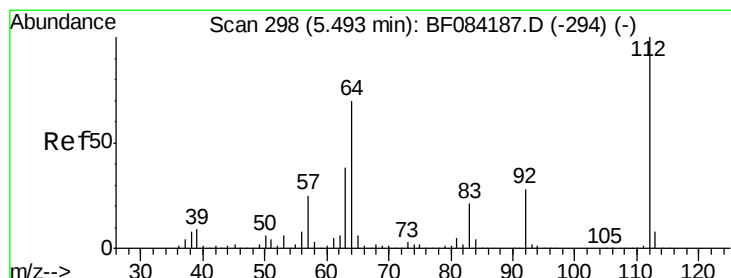
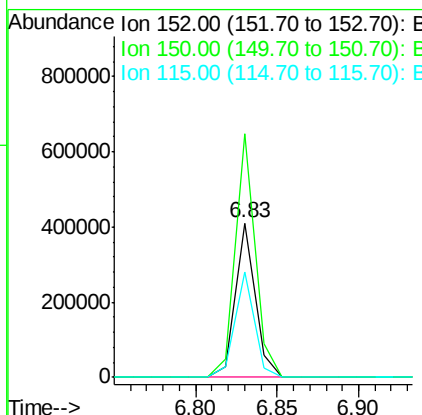
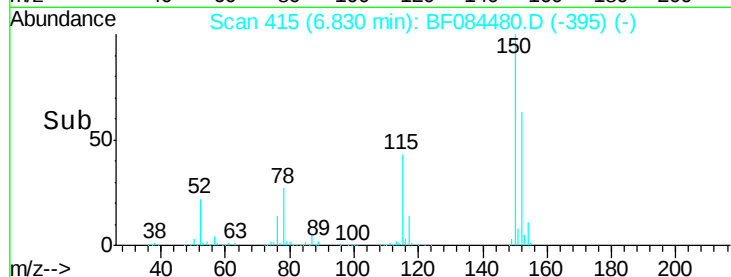
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.07 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Instrument :
BNA_F
ClientSampleId :
POST-EX-3-20160108

Tot Ion:152 Resp: 341778
Ion Ratio Lower Upper
152 100
150 157.6 123.0 184.4
115 68.5 51.4 77.2



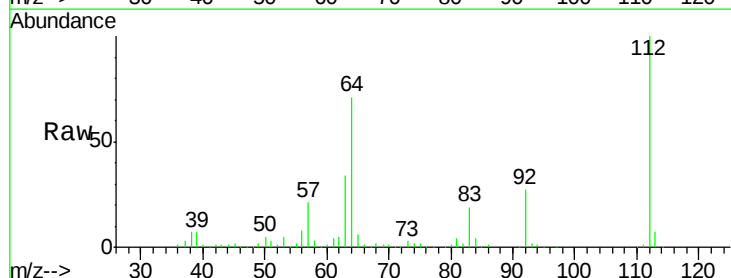
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



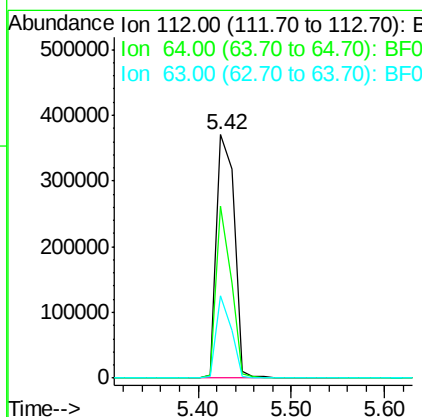
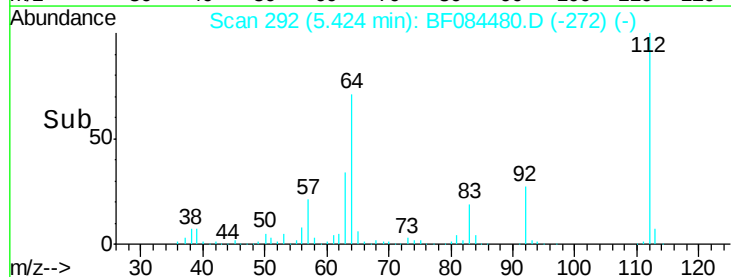
#5

2-Fluorophenol
Concen: 23.15 ng
RT: 5.42 min Scan# 292
Delta R.T. -0.07 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Tgt Ion:112 Resp: 489066
Ion Ratio Lower Upper
112 100
64 70.8 36.6 55.0#
63 33.9 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: 23.07 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

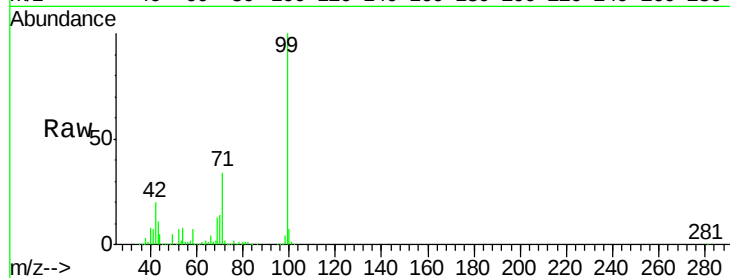
Tot Ion: 99 Resp: 612357

Ion Ratio Lower Upper

99 100

42 19.9 12.8 19.2#

71 34.0 30.9 46.3

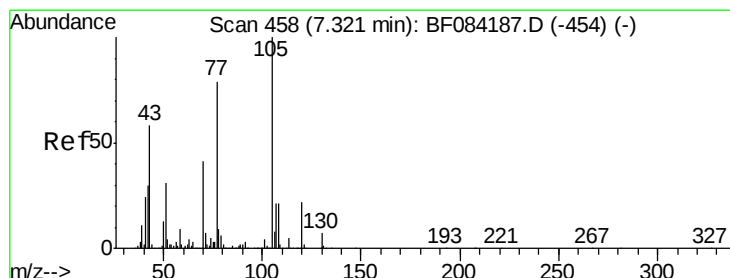
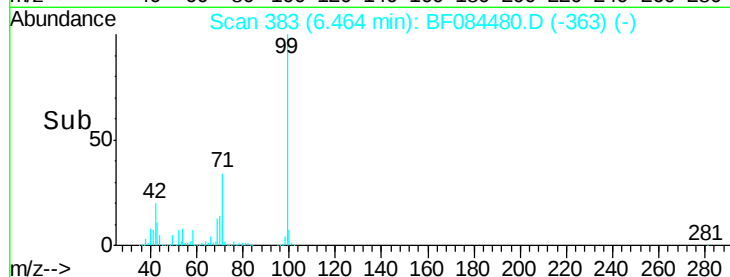
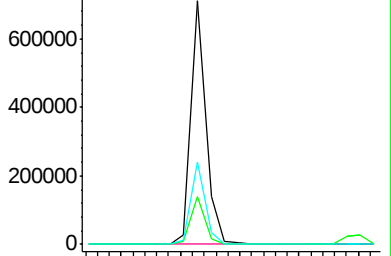


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

6.46



#19

n-Nitroso-di-n-propylamine

Concen: 2.66 ng

RT: 7.39 min Scan# 464

Delta R.T. 0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Tgt Ion: 70 Resp: 47758

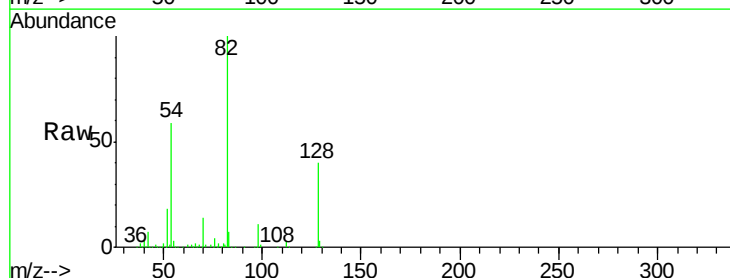
Ion Ratio Lower Upper

70 100

42 50.9 33.3 49.9#

101 0.0 9.3 13.9#

130 1.7 23.4 35.0#



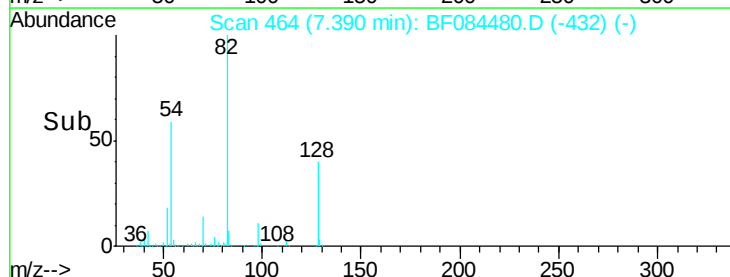
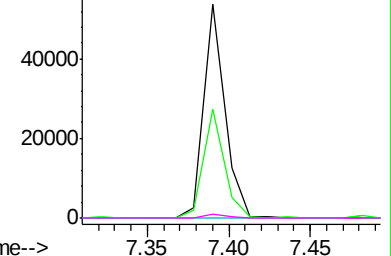
Abundance Ion 70.00 (69.70 to 70.70): BF0

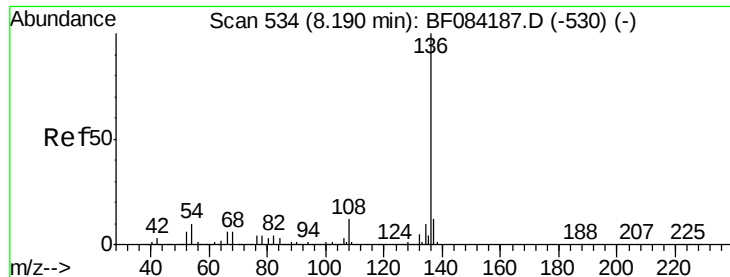
Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

7.39





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

Tot Ion:136 Resp: 1408859

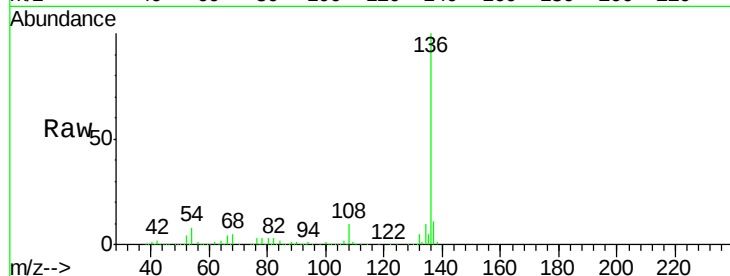
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 7.8 5.8 8.8

68 4.9 4.2 6.2

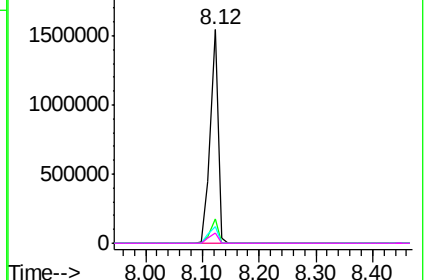
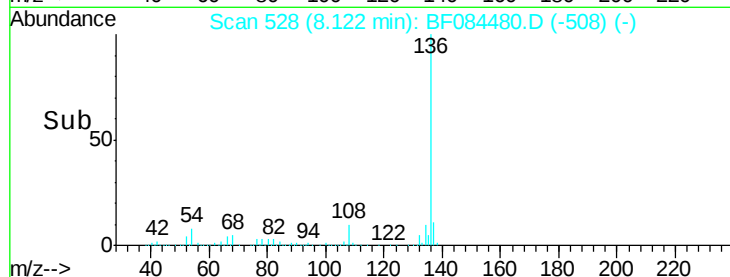


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.92 ng

RT: 7.39 min Scan# 464

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

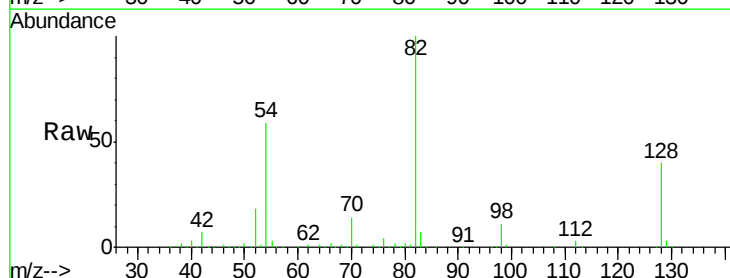
Tgt Ion: 82 Resp: 352354

Ion Ratio Lower Upper

82 100

128 39.8 34.6 51.8

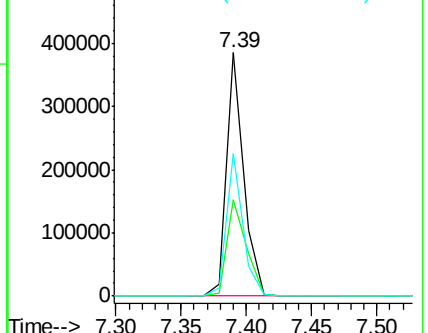
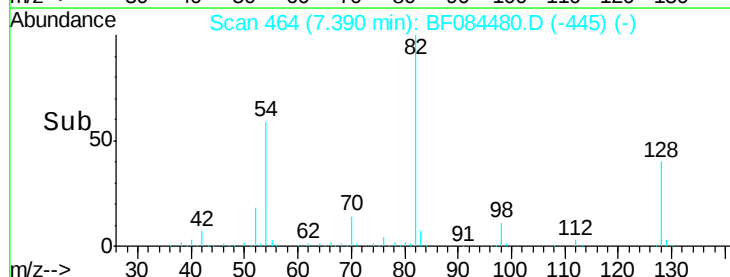
54 58.7 38.4 57.6#

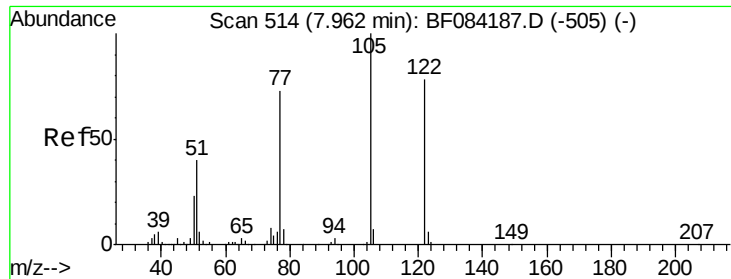


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

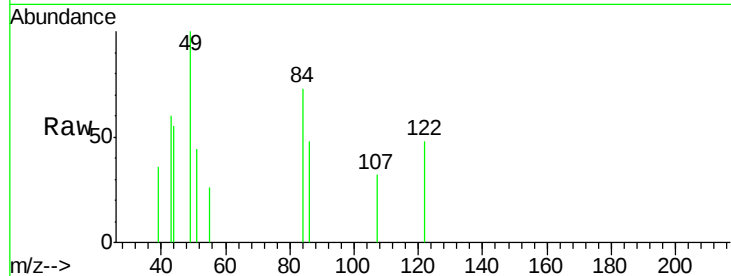
Tot Ion:122 Resp: 435

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

7.92

600

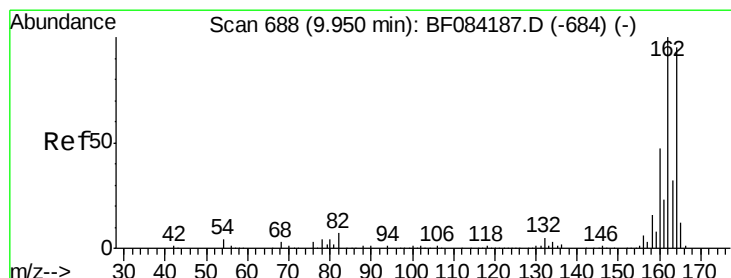
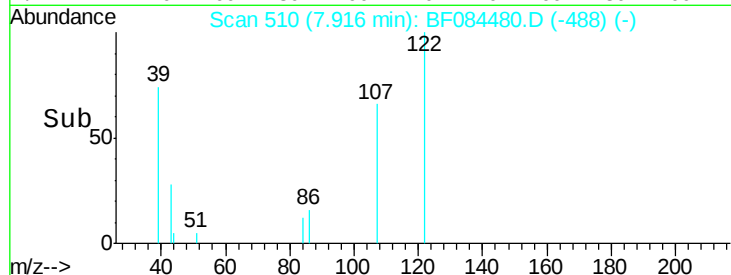
400

200

0

7.88 7.90 7.92 7.94

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

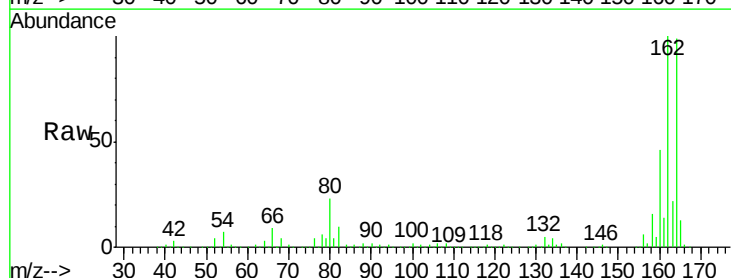
Tgt Ion:164 Resp: 588356

Ion Ratio Lower Upper

164 100

162 101.2 85.1 127.7

160 46.7 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

9.87

800000

600000

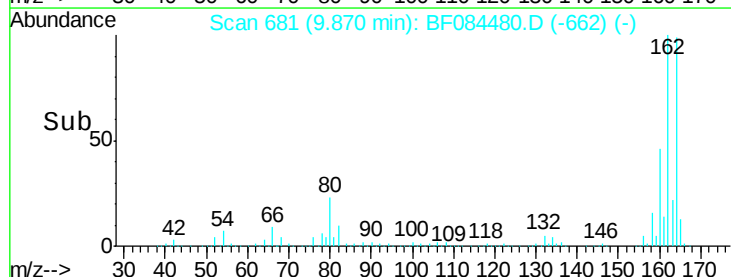
400000

200000

0

9.80 9.90 10.00

Time-->

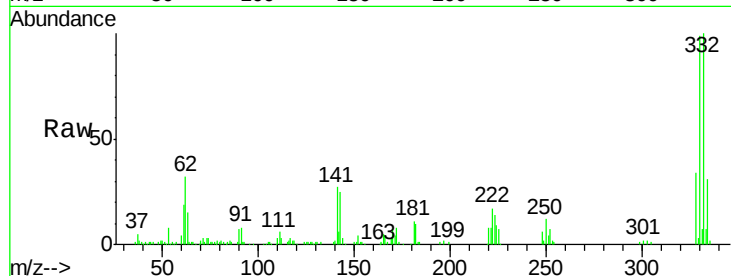




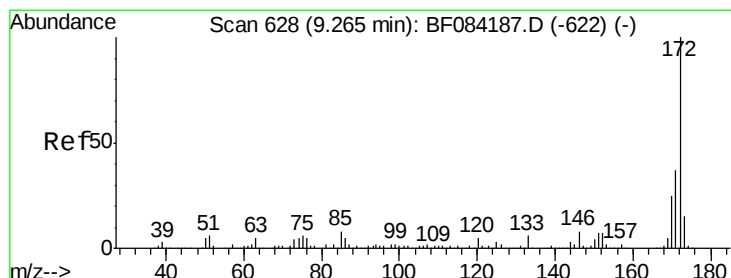
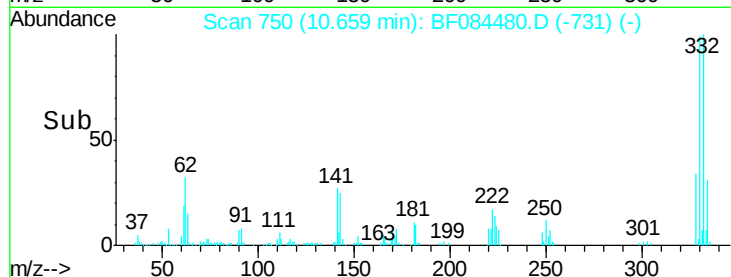
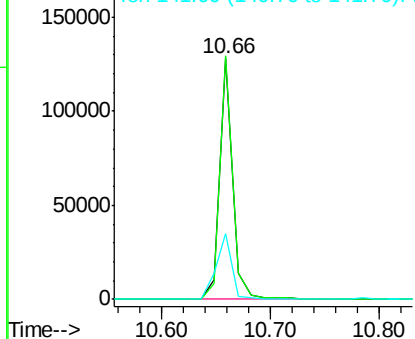
#41
 2,4,6-Tribromophenol
 Concen: 18.18 ng
 RT: 10.66 min Scan# 750
 Delta R.T. -0.08 min
 Lab File: BF084480.D
 Acq: 14 Jan 2016 10:07

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-3-20160108

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.2	76.6	114.8
141	33.0	27.8	41.6

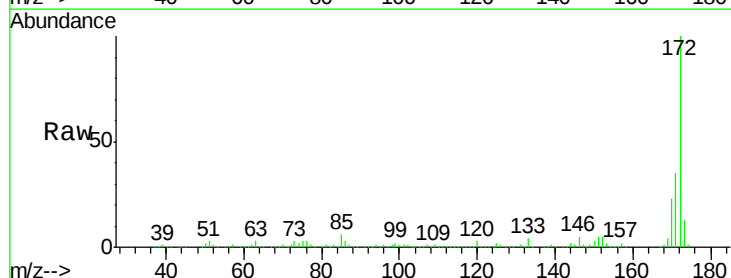


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

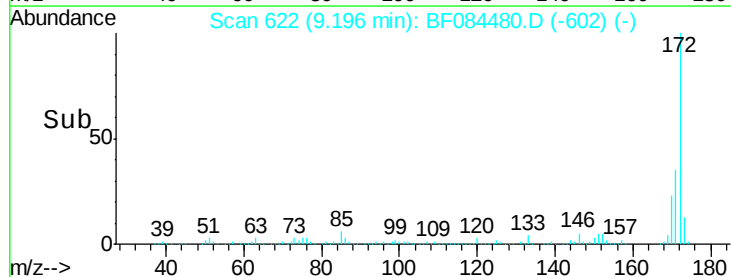
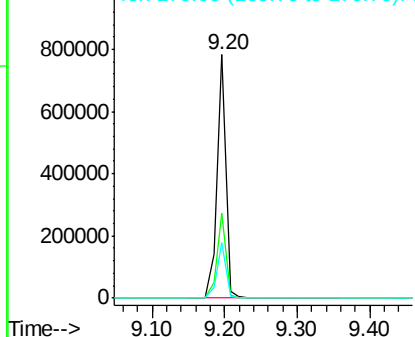


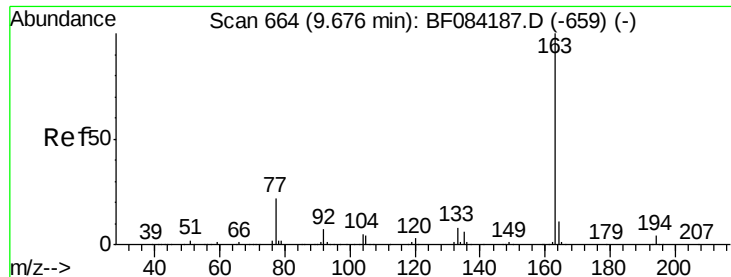
#44
 2-Fluorobiphenyl
 Concen: 14.49 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.07 min
 Lab File: BF084480.D
 Acq: 14 Jan 2016 10:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.9	43.3
170	22.8	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

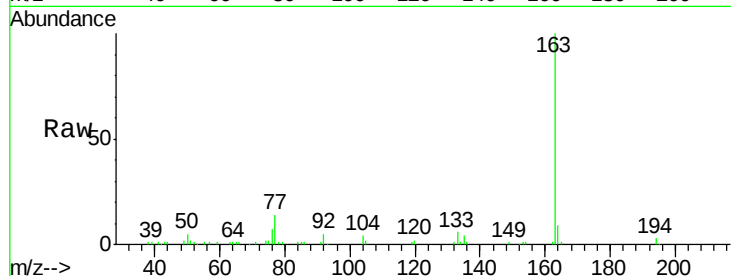




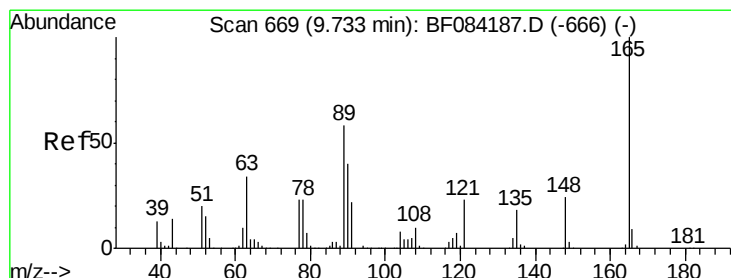
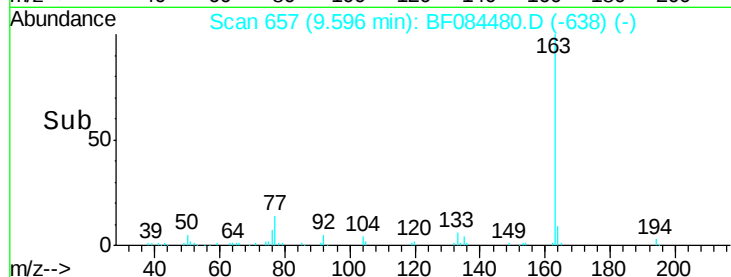
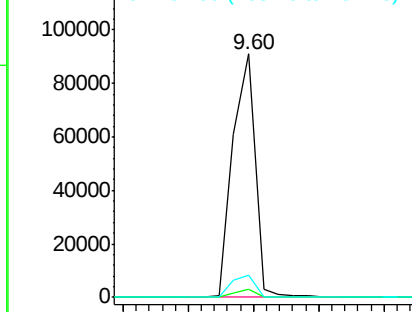
#49
Dimethylphthalate
Concen: 2.57 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.08 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
163	100		
194	3.4	8.0	12.0#
164	9.3	8.0	12.0

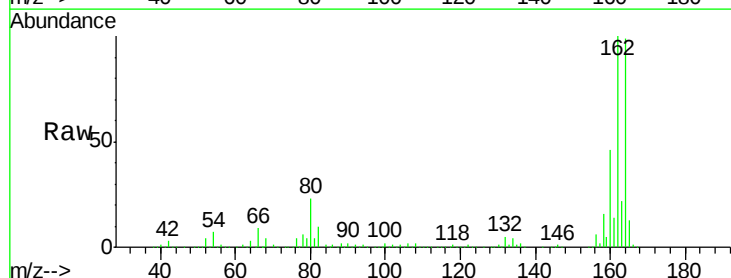


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

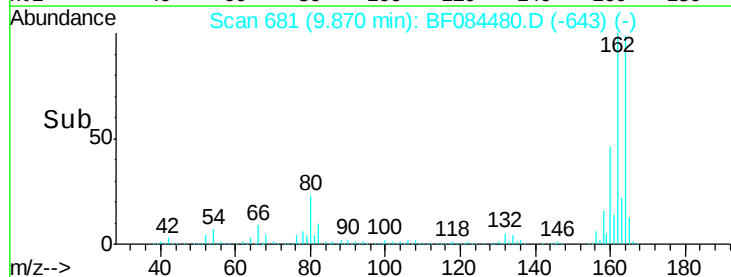
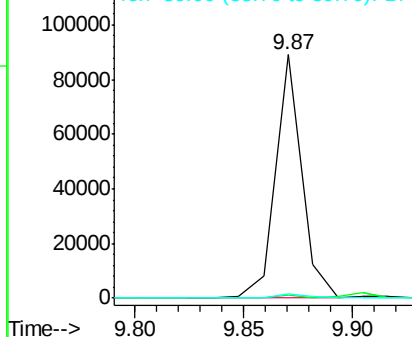


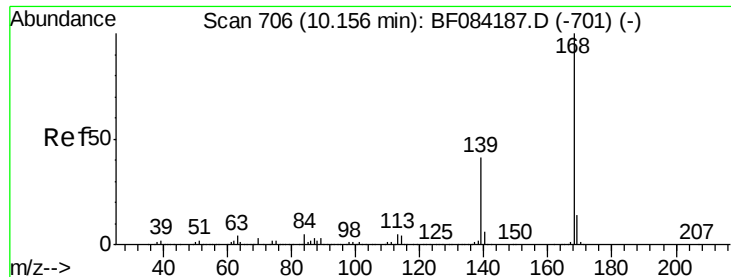
#50
2,6-Dinitrotoluene
Concen: 8.16 ng
RT: 9.87 min Scan# 681
Delta R.T. 0.14 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	28.8	43.2#
89	1.6	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

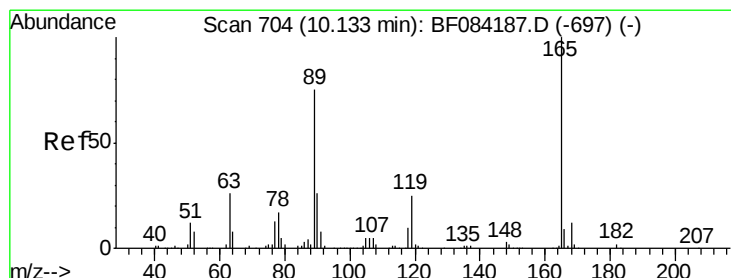
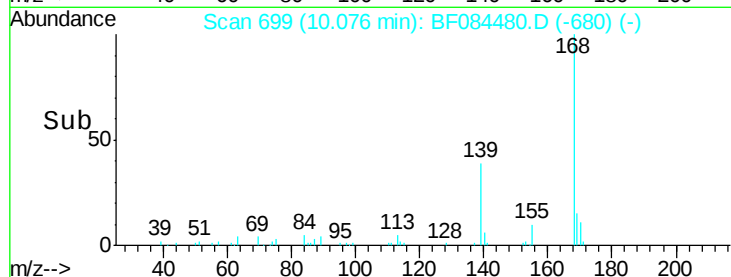
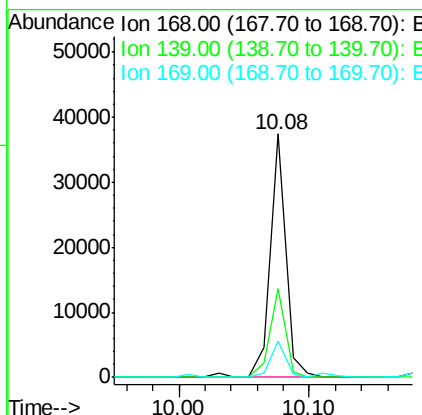
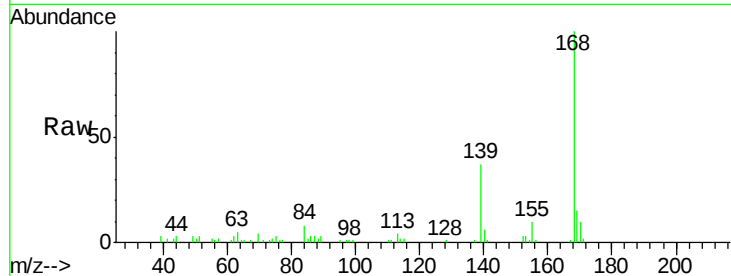




#54
Dibenzofuran
Concen: Below Cal
RT: 10.08 min Scan# 699
Delta R.T. -0.08 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

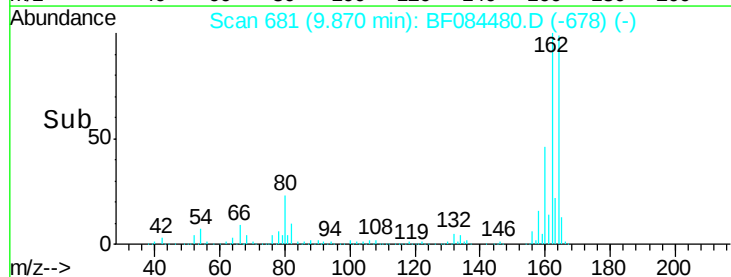
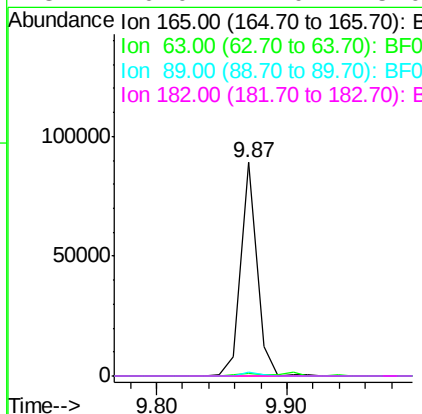
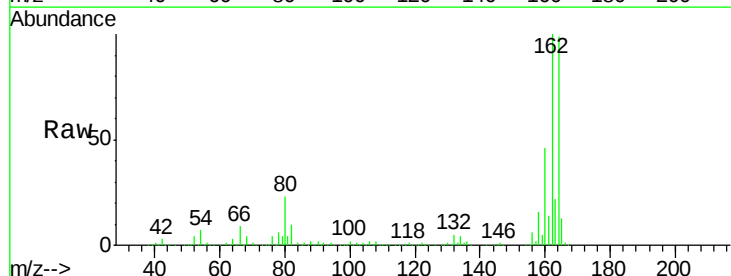
Instrument :
BNA_F
ClientSampleId :
POST-EX-3-20160108

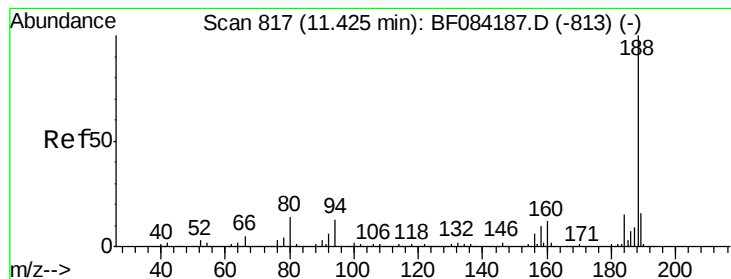
Tot Ion:168 Resp: 31783
Ion Ratio Lower Upper
168 100
139 36.7 30.5 45.7
169 14.9 10.4 15.6



#56
2,4-Dinitrotoluene
Concen: 6.50 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.26 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Tgt Ion:165 Resp: 75874
Ion Ratio Lower Upper
165 100
63 1.3 36.7 55.1#
89 1.6 61.9 92.9#
182 0.0 2.0 3.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

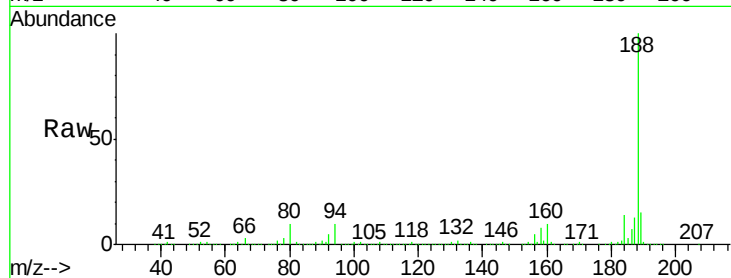
Tot Ion:188 Resp: 947551

Ion Ratio Lower Upper

188 100

94 9.6 9.0 13.4

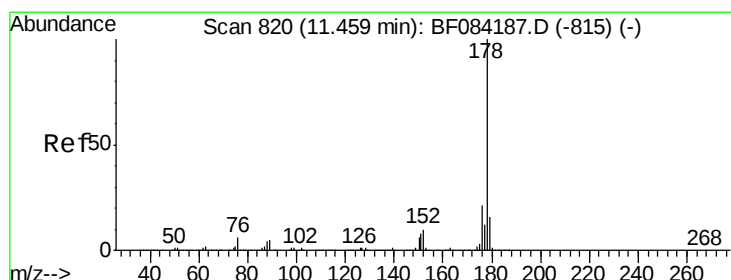
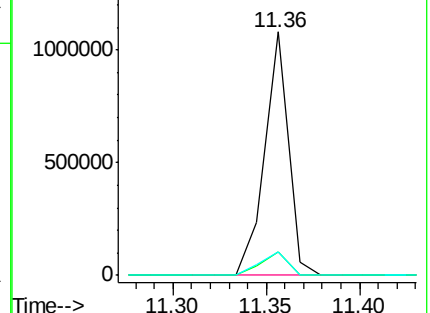
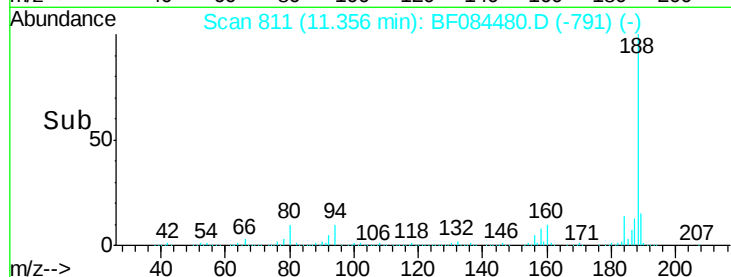
80 9.9 9.6 14.4



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



#70

Phenanthrene

Concen: 9.68 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

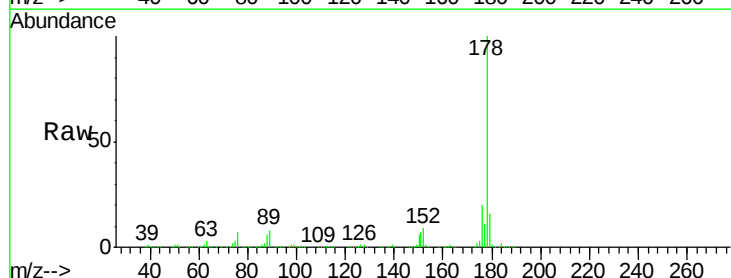
Tgt Ion:178 Resp: 479770

Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

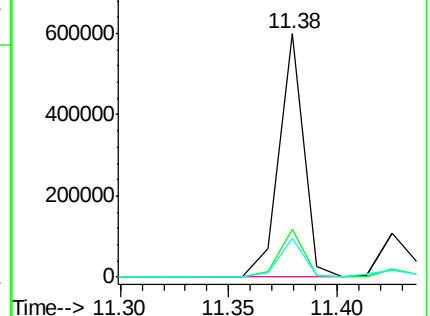
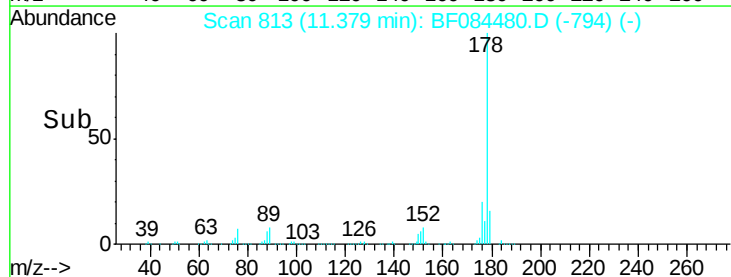
179 15.8 12.0 18.0

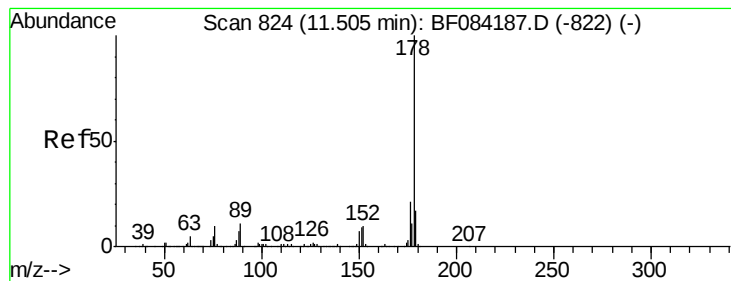


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.25 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

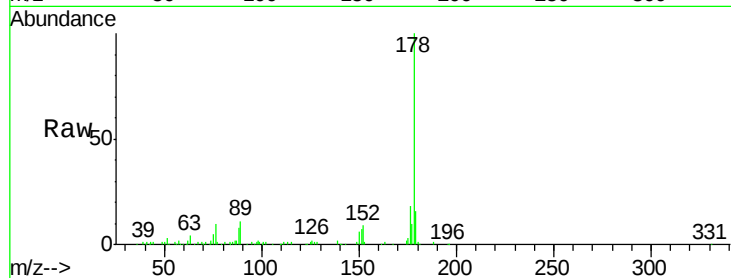
Tot Ion:178 Resp: 109084

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

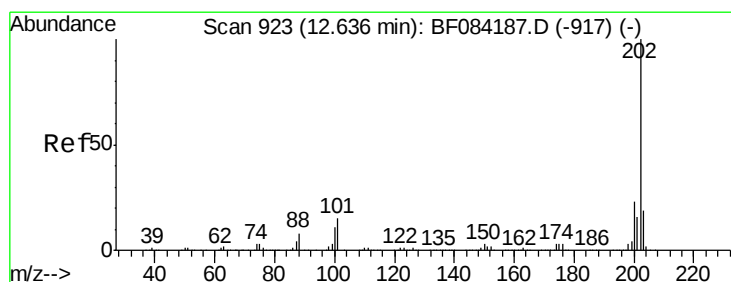
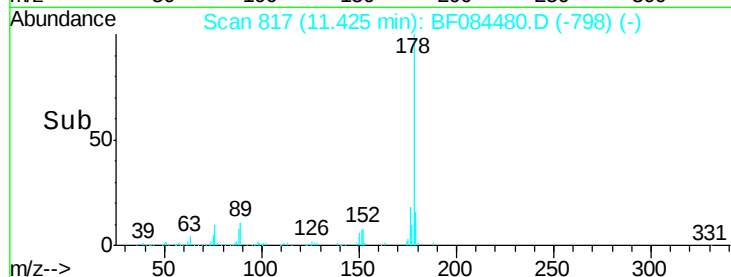
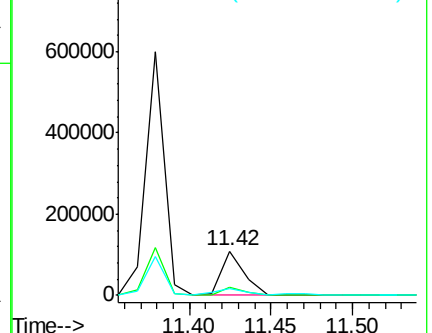
179 16.1 12.5 18.7



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



#74

Fluoranthene

Concen: 10.00 ng

RT: 12.57 min Scan# 917

Delta R.T. -0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

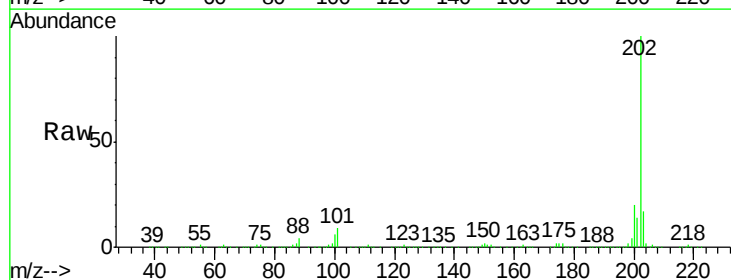
Tgt Ion:202 Resp: 517968

Ion Ratio Lower Upper

202 100

101 8.7 0.0 32.8

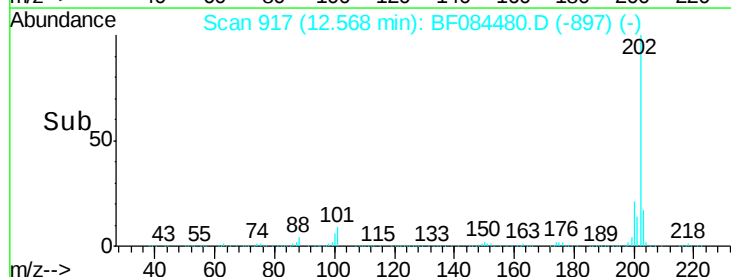
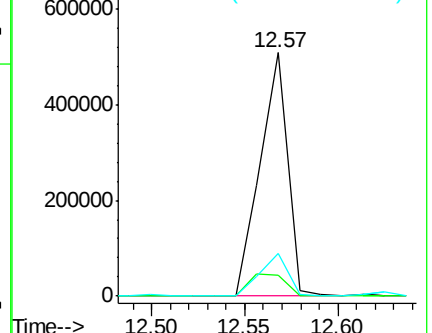
203 17.3 0.0 37.9

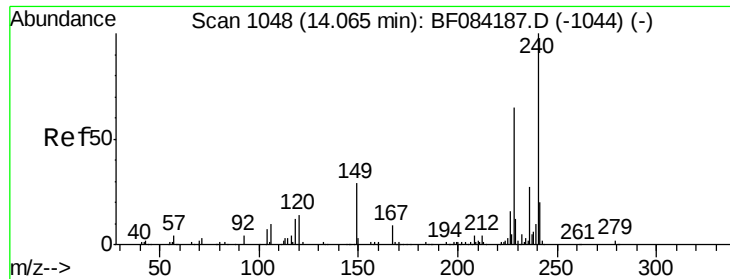


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

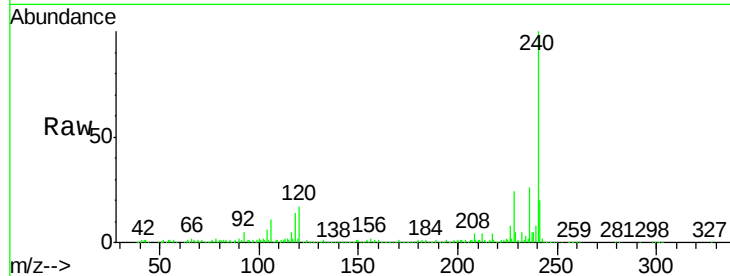
Tot Ion:240 Resp: 681491

Ion Ratio Lower Upper

240 100

120 16.7 9.5 14.3#

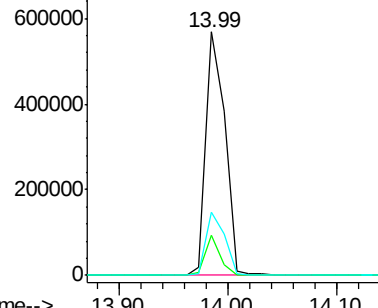
236 25.9 20.6 31.0



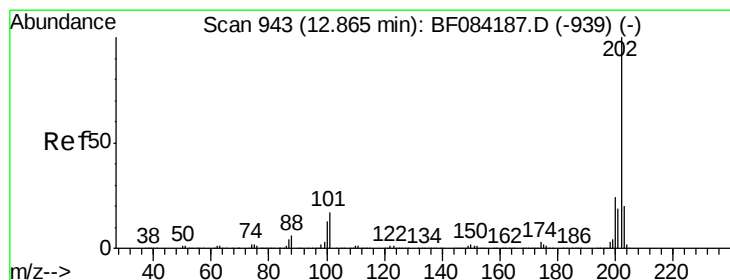
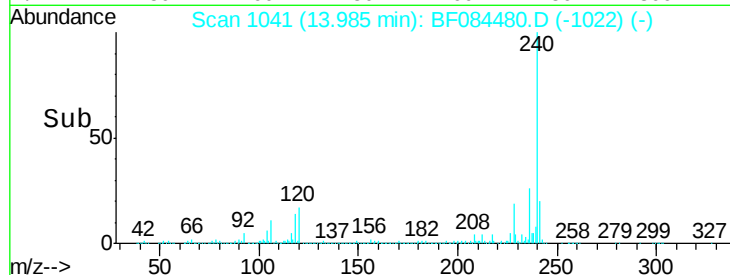
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 13.90 14.00 14.10



#77

Pyrene

Concen: 7.88 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.07 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

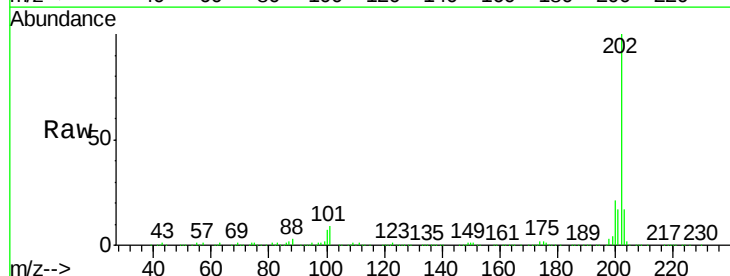
Tgt Ion:202 Resp: 421480

Ion Ratio Lower Upper

202 100

200 20.8 17.2 25.8

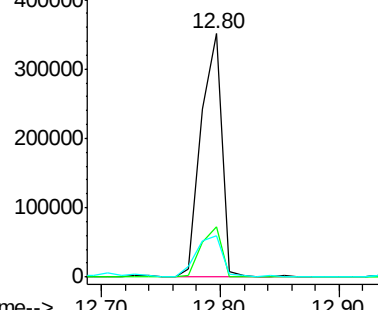
203 17.0 14.3 21.5



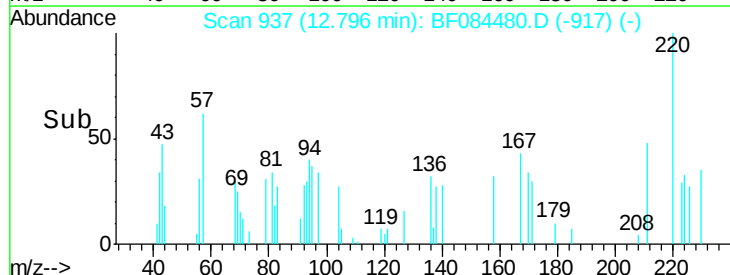
Abundance Ion 202.00 (201.70 to 202.70): E

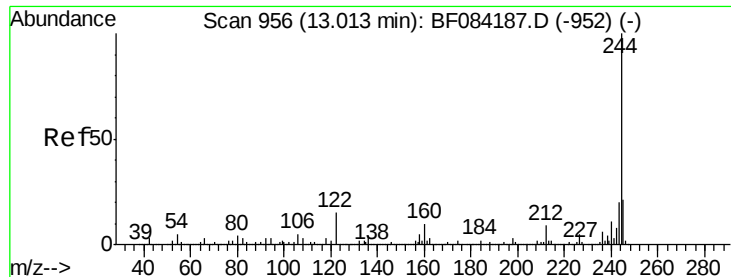
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.70 12.80 12.90





#78

Terphenyl-d14

Concen: 12.96 ng

RT: 12.93 min Scan# 949

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

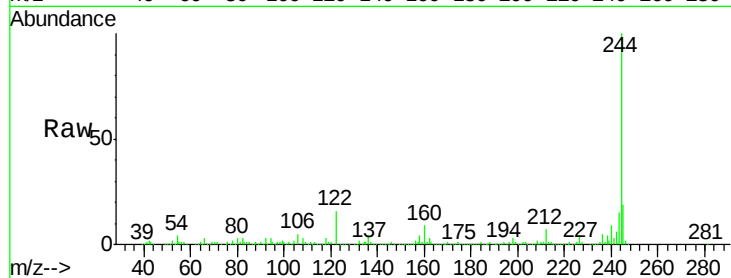
Tot Ion:244 Resp: 395662

Ion Ratio Lower Upper

244 100

212 7.2 5.7 8.5

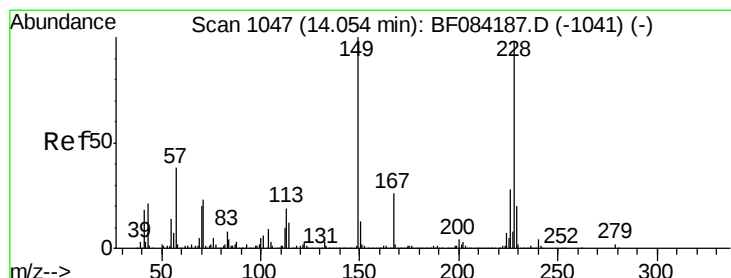
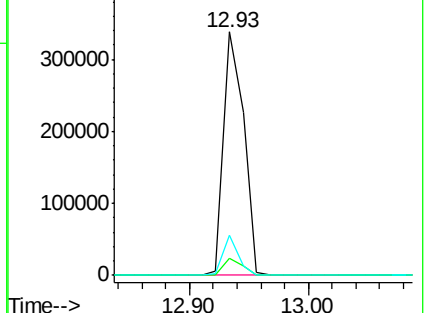
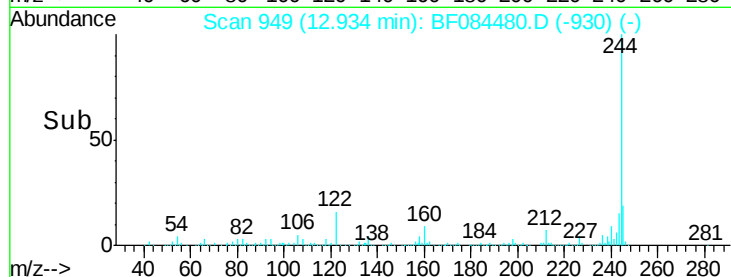
122 16.3 7.4 11.0#



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: 6.23 ng

RT: 13.97 min Scan# 1040

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

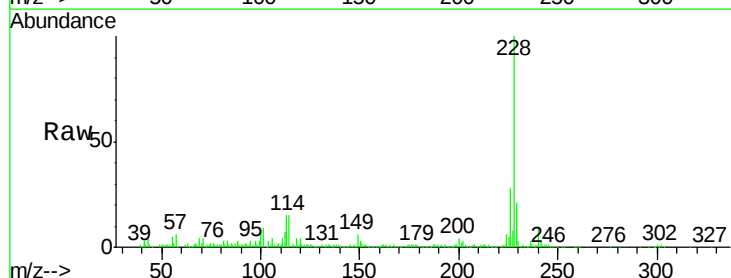
Tgt Ion:228 Resp: 249142

Ion Ratio Lower Upper

228 100

226 28.5 21.8 32.6

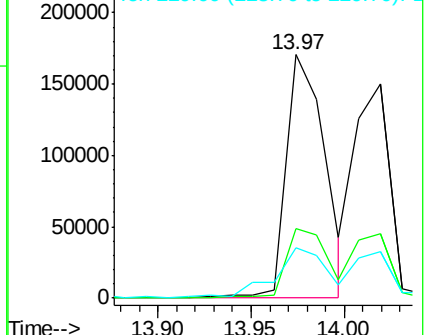
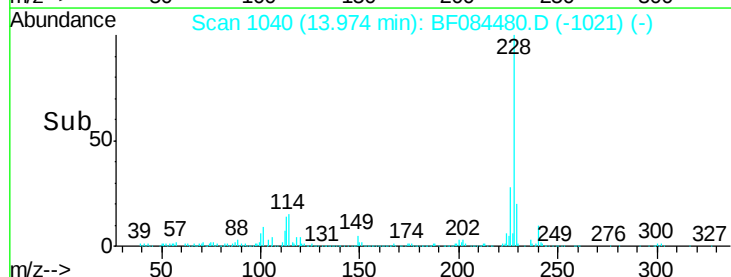
229 20.8 15.8 23.8

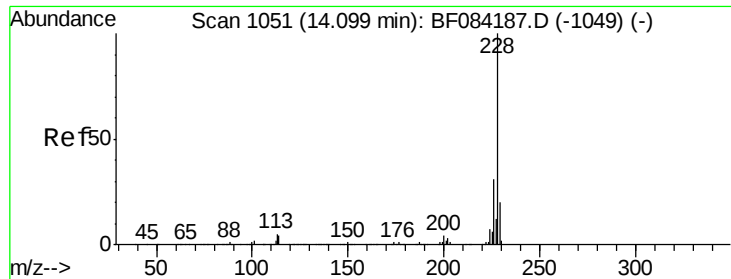


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 5.10 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.08 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

Instrument :

BNA_F

ClientSampleId :

POST-EX-3-20160108

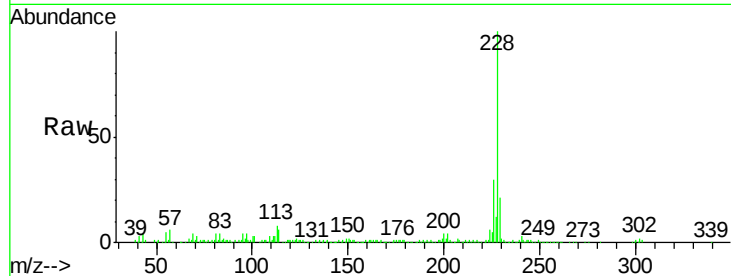
Tot Ion:228 Resp: 196103

Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

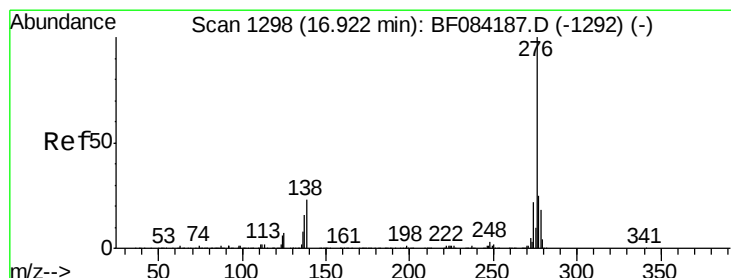
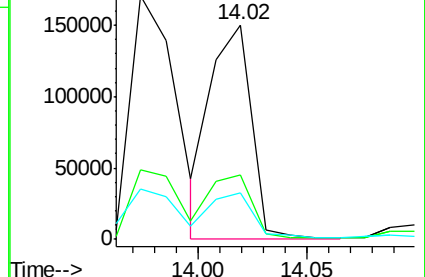
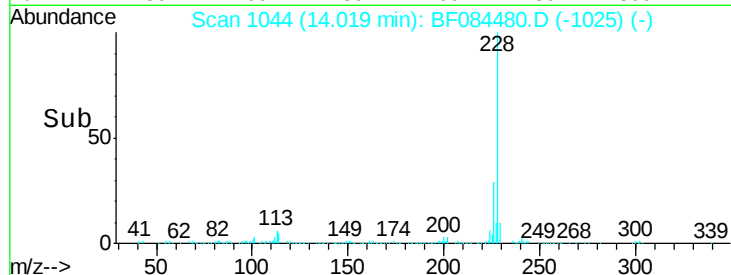
229 21.5 16.1 24.1



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: 3.35 ng

RT: 16.79 min Scan# 1286

Delta R.T. -0.14 min

Lab File: BF084480.D

Acq: 14 Jan 2016 10:07

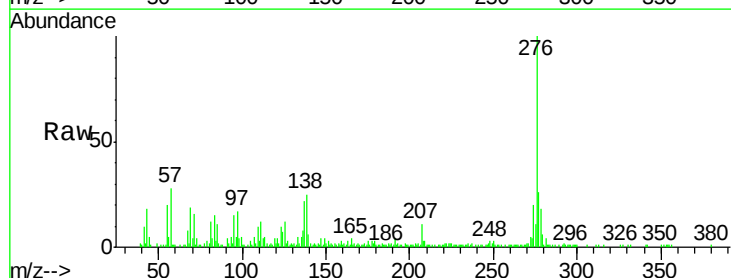
Tgt Ion:276 Resp: 102113

Ion Ratio Lower Upper

276 100

138 22.2 20.6 30.8

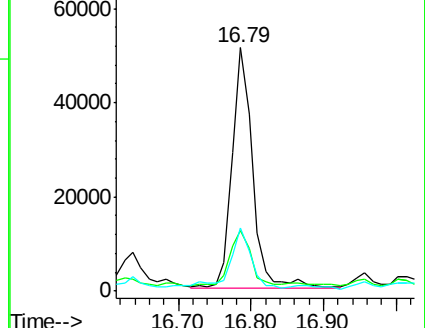
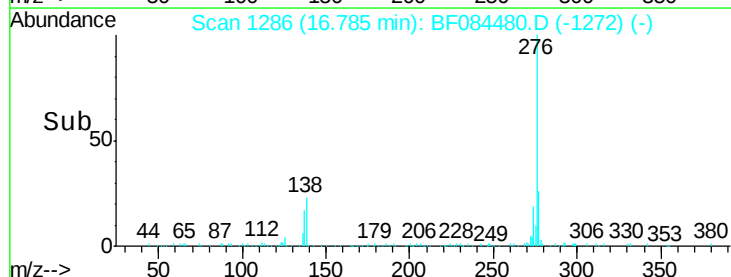
277 26.4 20.1 30.1

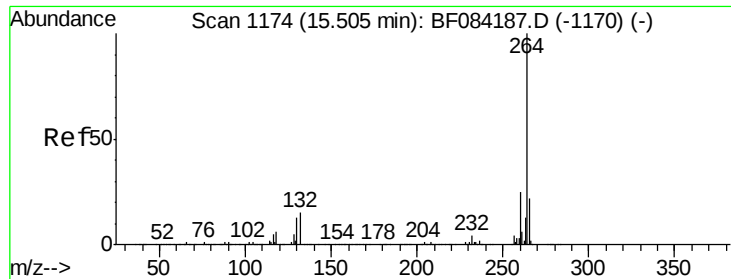


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

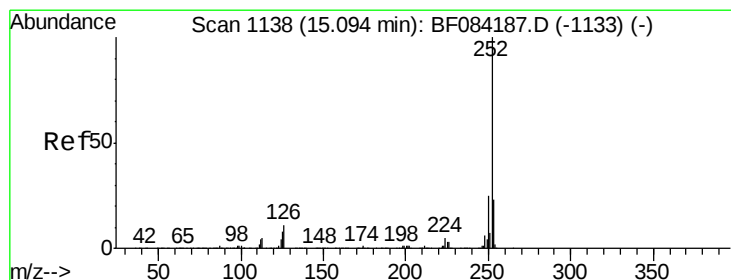
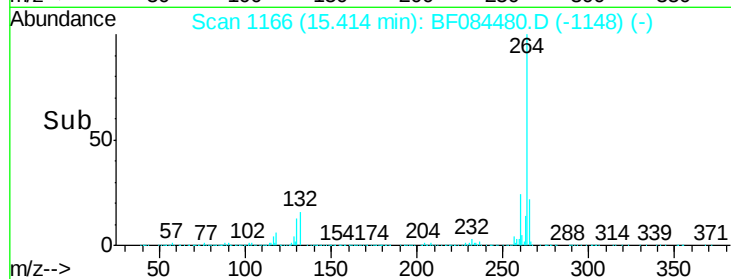
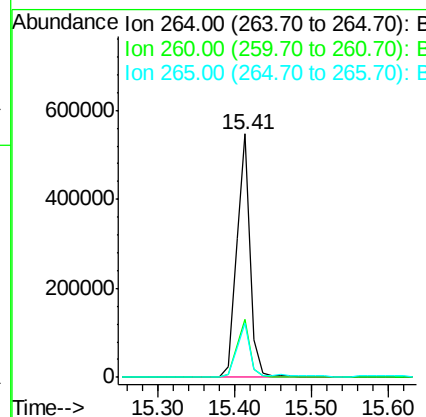
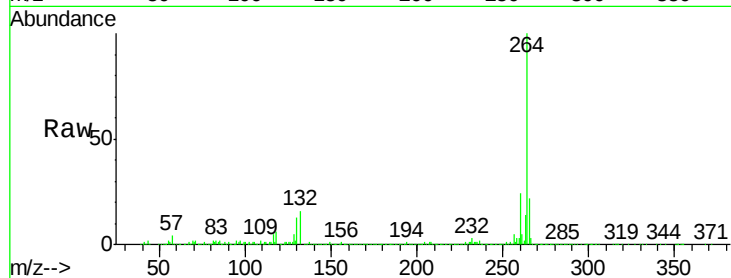




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.09 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

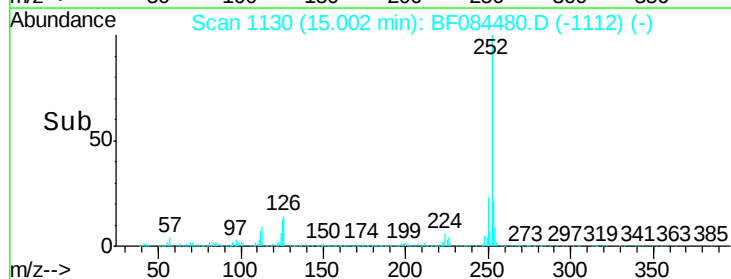
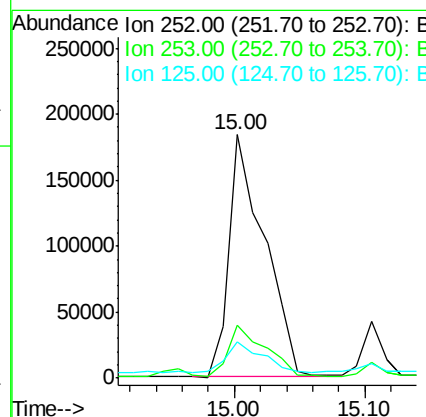
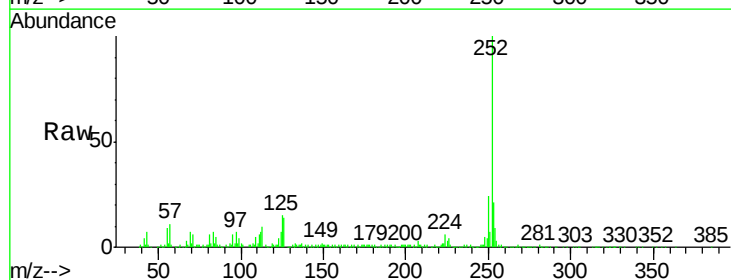
Instrument :
BNA_F
ClientSampleId :
POST-EX-3-20160108

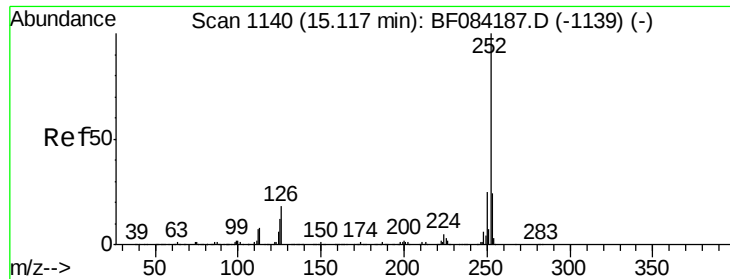
Tot Ion:264 Resp: 683059
Ion Ratio Lower Upper
264 100
260 23.7 19.4 29.2
265 22.2 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 7.80 ng
RT: 15.00 min Scan# 1130
Delta R.T. -0.09 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Tgt Ion:252 Resp: 348528
Ion Ratio Lower Upper
252 100
253 21.5 17.3 25.9
125 14.9 6.5 9.7#

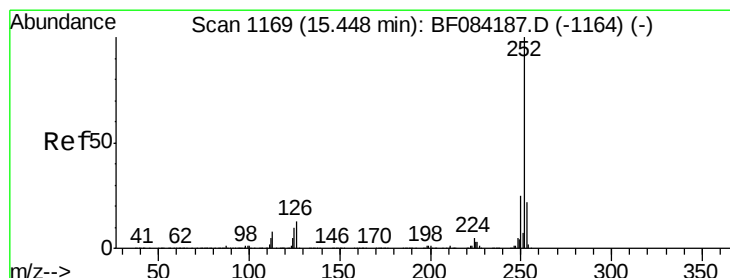
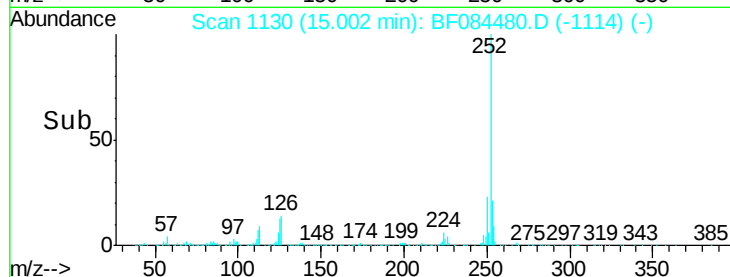
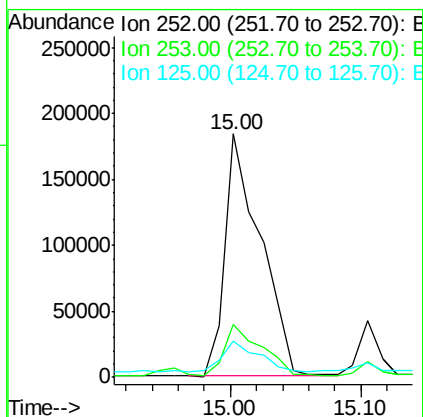
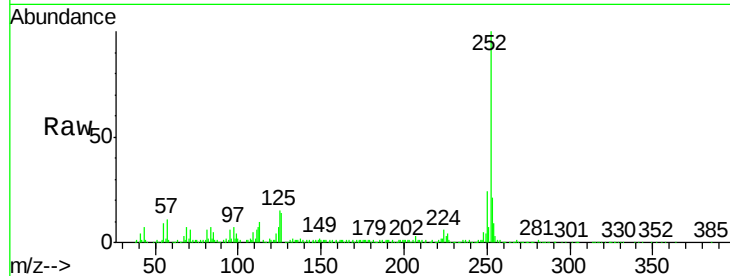




#88
Benzo(k)fluoranthene
Concen: 9.54 ng
RT: 15.00 min Scan# 1130
Delta R.T. -0.11 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

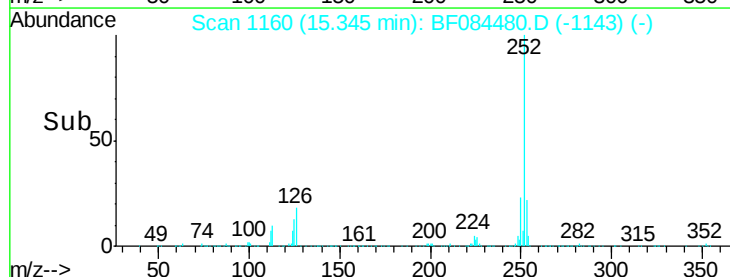
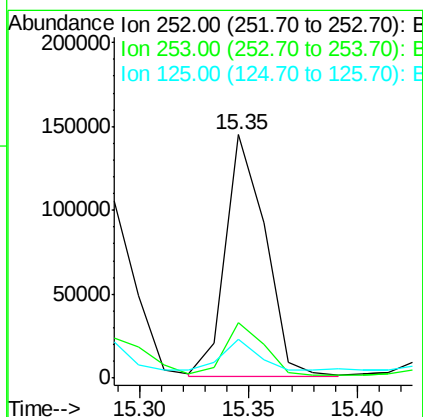
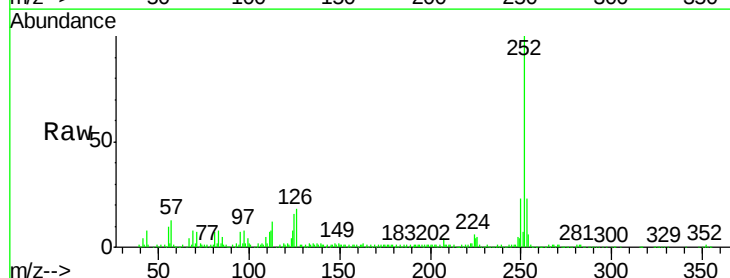
Instrument :
BNA_F
ClientSampleId :
POST-EX-3-20160108

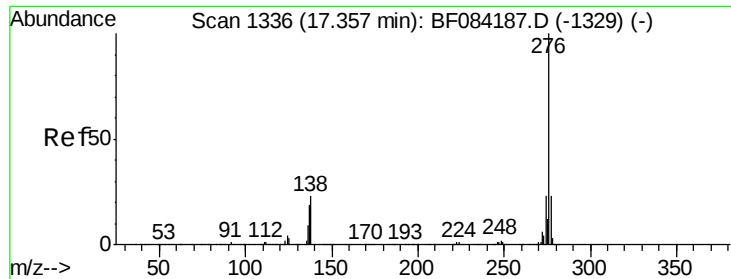
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.1	27.1
125	14.9	9.0	13.6



#89
Benzo(a)pyrene
Concen: 4.82 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.10 min
Lab File: BF084480.D
Acq: 14 Jan 2016 10:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	16.1	7.0	10.4





#91
 Benzo(a,h,i)perylene
 Concen: 2.58 ng
 RT: 17.20 min Scan# 1322
 Delta R.T. -0.16 min
 Lab File: BF084480.D
 Acq: 14 Jan 2016 10:07

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-3-20160108

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	18.8	28.2
138	27.7	17.8	26.6

