

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092616\
 Data File : BF090236.D
 Acq On : 26 Sep 2016 22:01
 Operator : UM/SJ
 Sample : H4895-01RE
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILLRE

Quant Time: Sep 27 01:21:52 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 26 15:58:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	146572	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	573943	20.00	ng	0.00
38) Acenaphthene-d10	9.51	164	304539	20.00	ng	0.00
63) Phenanthrene-d10	10.97	188	406846	20.00	ng	-0.01
75) Chrysene-d12	13.59	240	282057	20.00	ng	-0.01
86) Perylene-d12	14.91	264	253328	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	247372	27.51	ng	0.00
7) Phenol-d6	6.14	99	903521	81.36	ng	0.00
23) Nitrobenzene-d5	7.05	82	670187	67.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.30	330	9819	3.76	ng	0.00
44) 2-Fluorobiphenyl	8.84	172	1084504	69.91	ng	-0.01
78) Terphenyl-d14	12.56	244	752508	67.73	ng	0.00

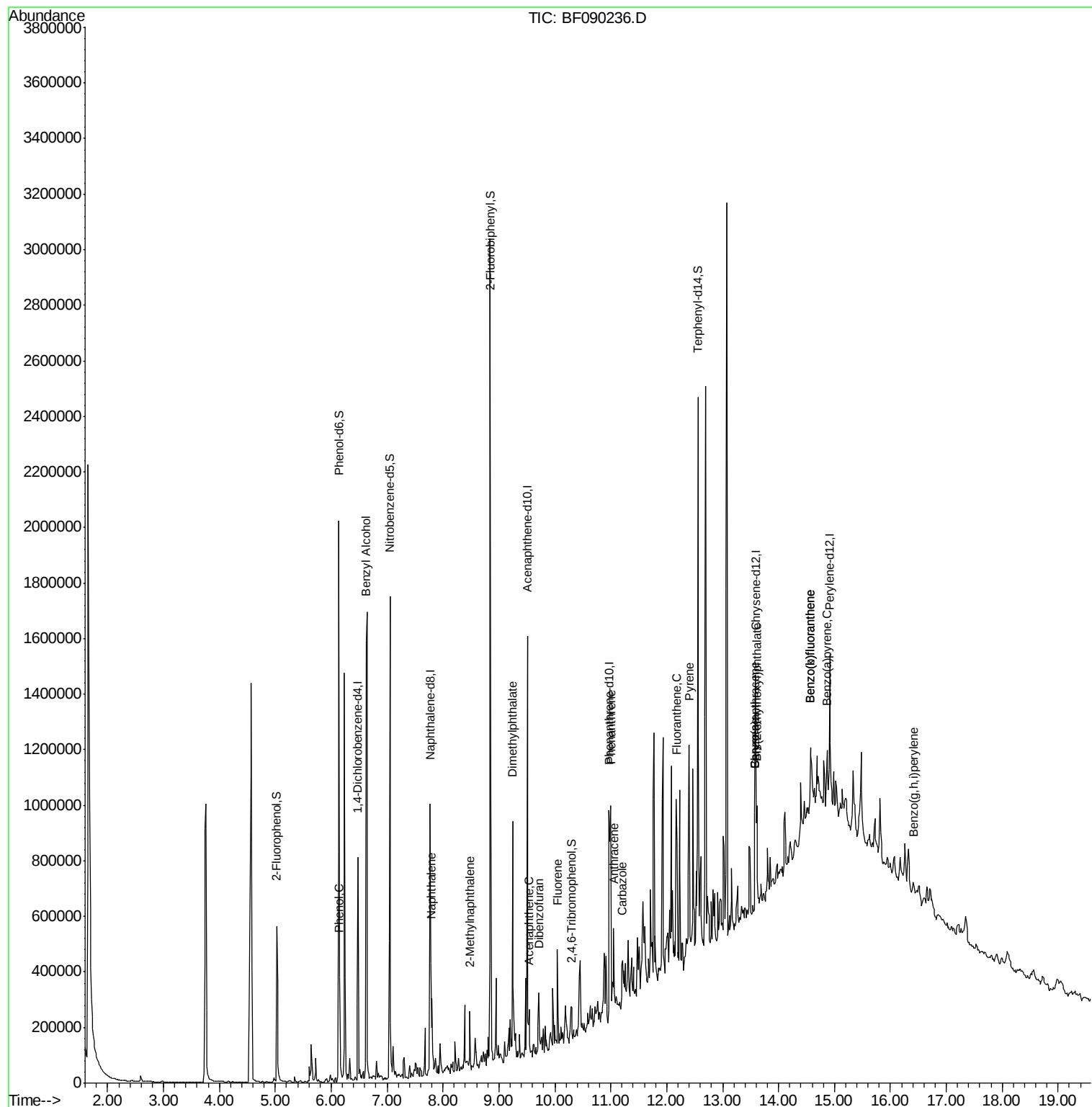
Target Compounds						Qvalue
10) Phenol	6.15	94	84951	6.47	ng	# 61
15) Benzyl Alcohol	6.63	79	14640	2.21	ng	# 51
31) Naphthalene	7.78	128	125262	4.58	ng	99
37) 2-Methylnaphthalene	8.48	142	54525	3.21	ng	98
49) Dimethylphthalate	9.24	163	356885	18.40	ng	98
51) Acenaphthene	9.54	154	43267	2.79	ng	98
54) Dibenzofuran	9.71	168	73414	3.60	ng	# 96
57) Fluorene	10.04	166	74224	4.83	ng	# 96
70) Phenanthrene	11.00	178	461331	24.25	ng	99
71) Anthracene	11.05	178	148702	7.45	ng	98
72) Carbazole	11.21	167	52372	2.48	ng	94
74) Fluoranthene	12.17	202	353917	17.33	ng	97
77) Pyrene	12.40	202	308363	15.98	ng	98
80) Benzo(a)anthracene	13.58	228	138473	9.13	ng	96
82) Chrysene	13.58	228	138473	9.37	ng	96
83) Bis(2-ethylhexyl)phthalate	13.61	149	33949	2.81	ng	# 97
87) Benzo(b)fluoranthene	14.57	252	172861	12.32	ng	# 89
88) Benzo(k)fluoranthene	14.57	252	172861	13.13	ng	# 83
89) Benzo(a)pyrene	14.87	252	89898	6.81	ng	# 83
91) Benzo(g,h,i)perylene	16.41	276	46707	4.63	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.48 min Scan# 428

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

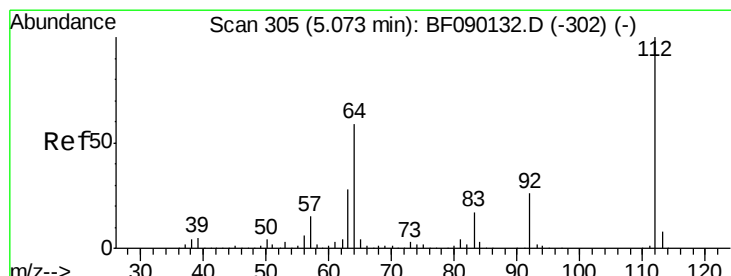
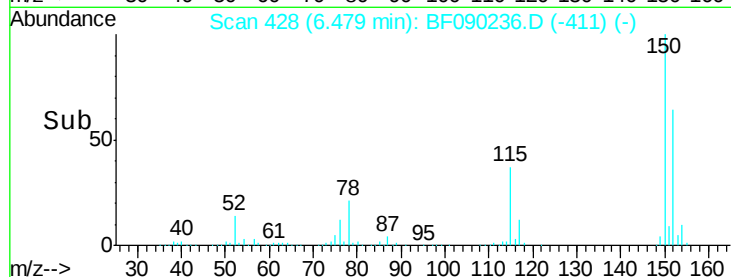
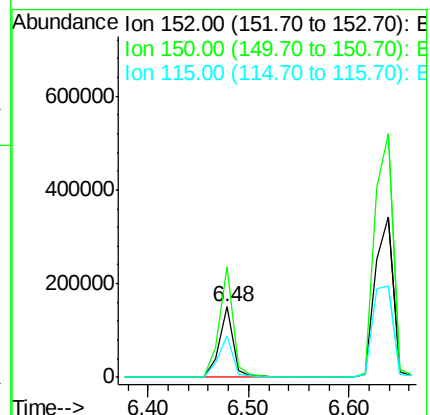
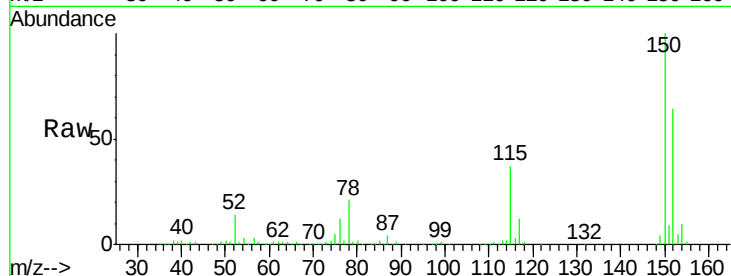
Tgt Ion:152 Resp: 146572

Ion Ratio Lower Upper

152 100

150 157.0 128.9 193.3

115 58.0 55.5 83.3



#5

2-Fluorophenol

Concen: 27.51 ng

RT: 5.03 min Scan# 301

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

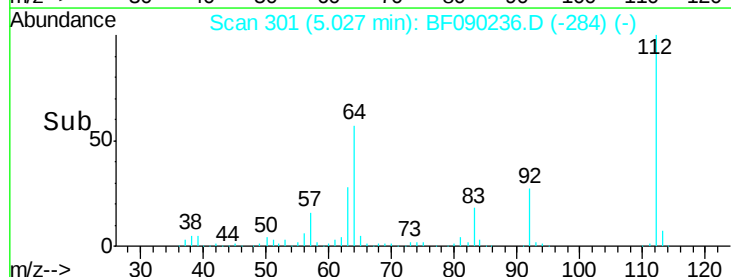
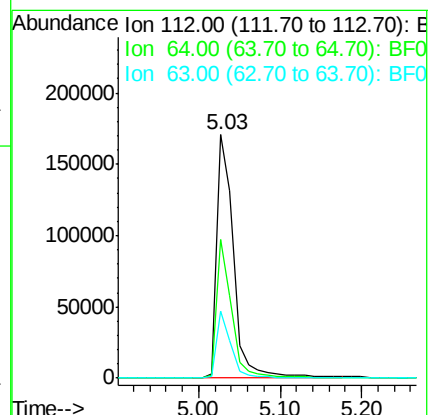
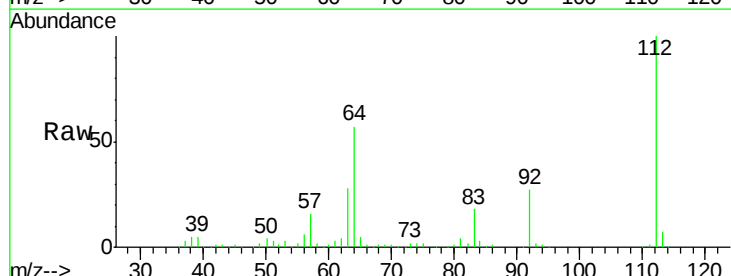
Tgt Ion:112 Resp: 247372

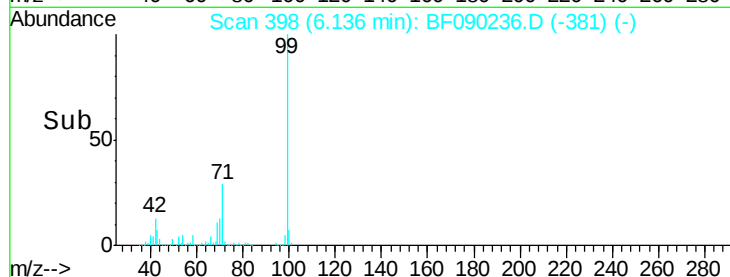
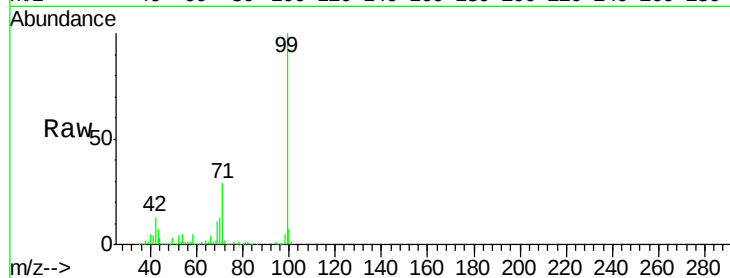
Ion Ratio Lower Upper

112 100

64 57.1 39.8 59.6

63 27.8 18.9 28.3





#7

Phenol-d6

Concen: 81.36 ng

RT: 6.14 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

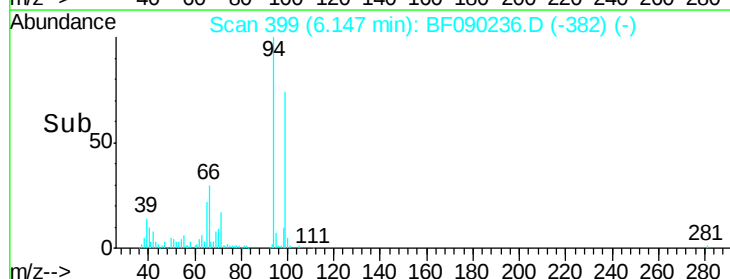
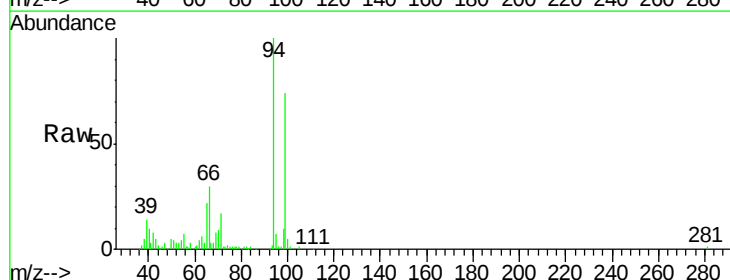
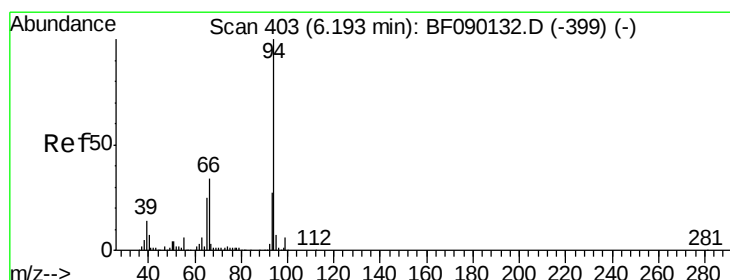
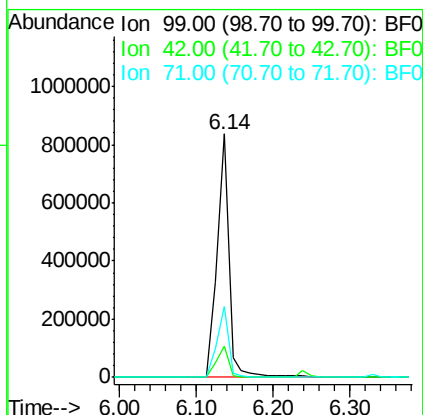
Tgt Ion: 99 Resp: 903521

Ion Ratio Lower Upper

99 100

42 12.6 10.6 15.8

71 29.2 23.0 34.6



#10

Phenol

Concen: 6.47 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

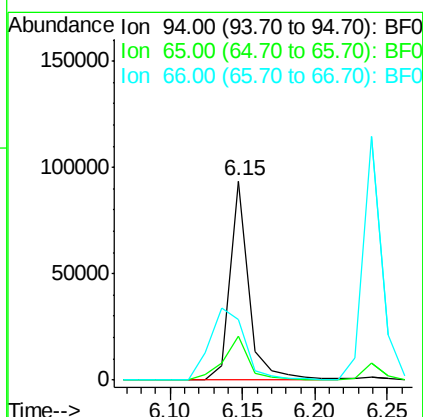
Tgt Ion: 94 Resp: 84951

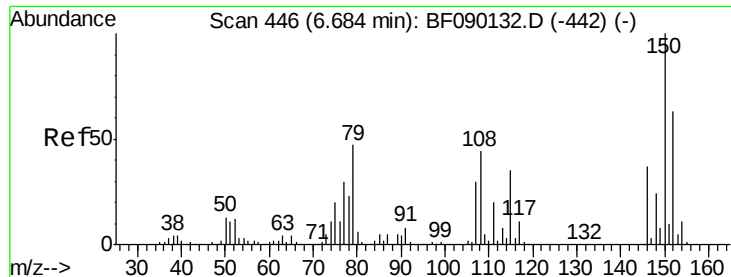
Ion Ratio Lower Upper

94 100

65 21.9 20.6 60.6

66 30.5 45.1 85.1#





#15

Benzyl Alcohol

Concen: 2.21 ng

RT: 6.63 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

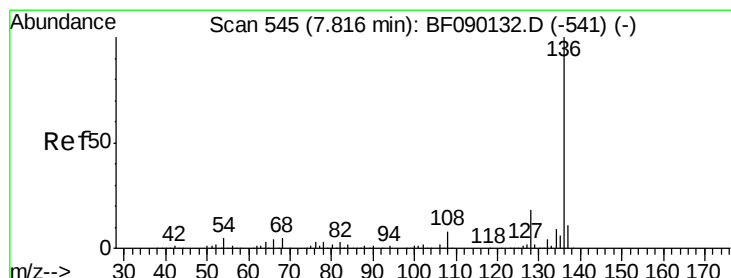
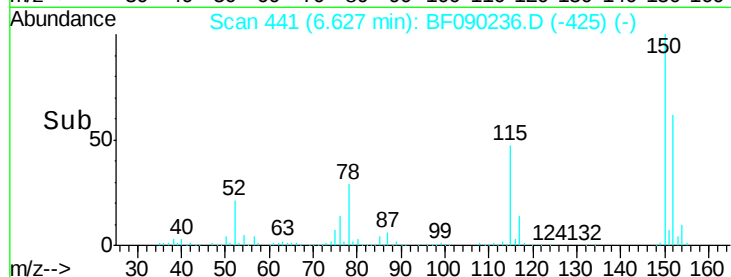
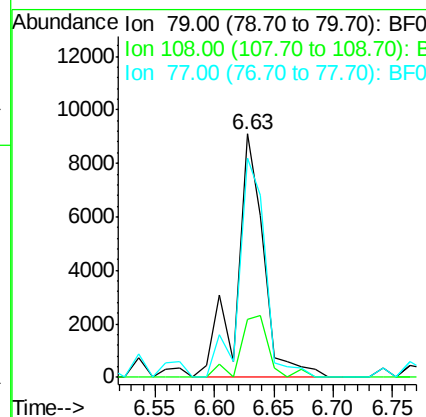
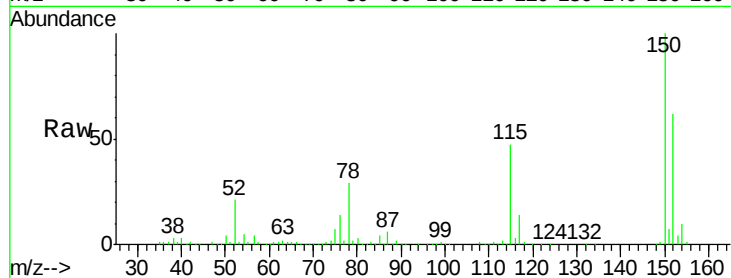
Tgt Ion: 79 Resp: 14640

Ion Ratio Lower Upper

79 100

108 23.7 62.2 93.4#

77 90.3 51.4 77.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 541

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion: 136 Resp: 573943

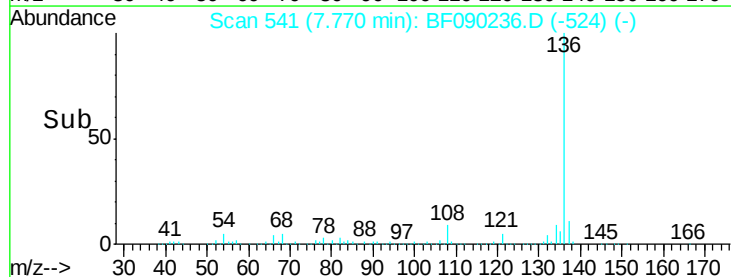
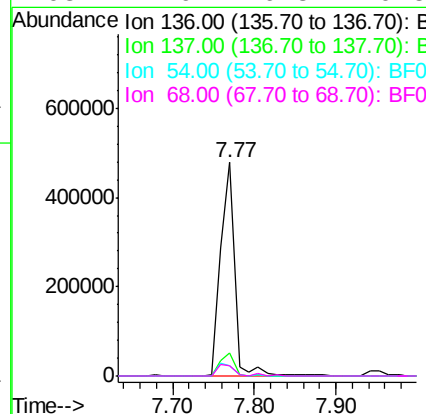
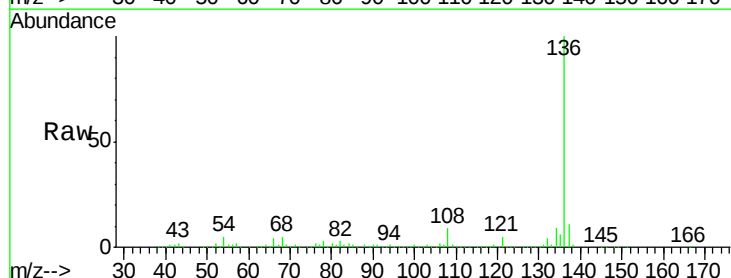
Ion Ratio Lower Upper

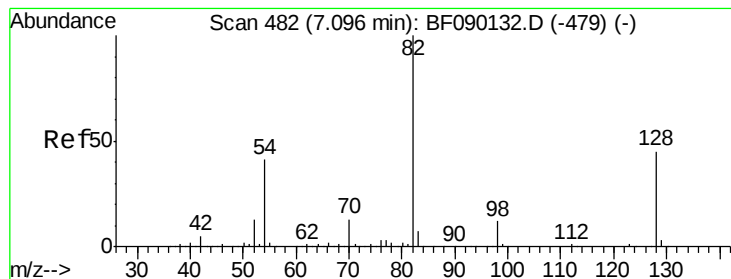
136 100

137 10.6 9.0 13.4

54 4.8 6.4 9.6#

68 4.9 6.3 9.5#





#23

Nitrobenzene-d5

Concen: 67.69 ng

RT: 7.05 min Scan# 478

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

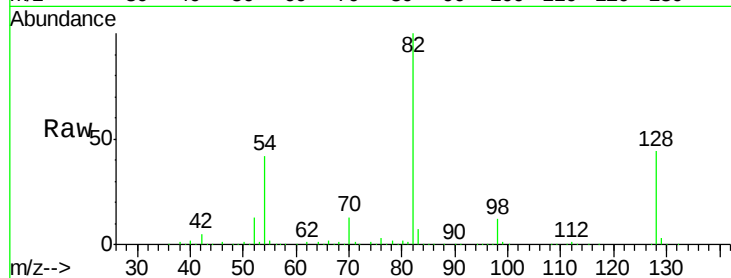
Tgt Ion: 82 Resp: 670187

Ion Ratio Lower Upper

82 100

128 44.1 37.5 56.3

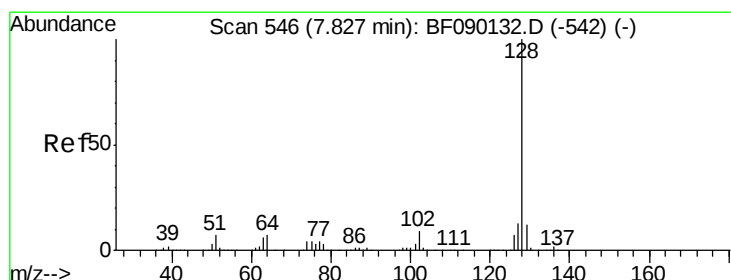
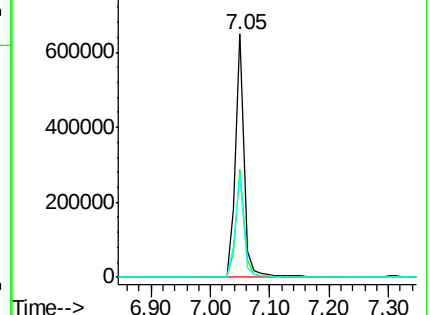
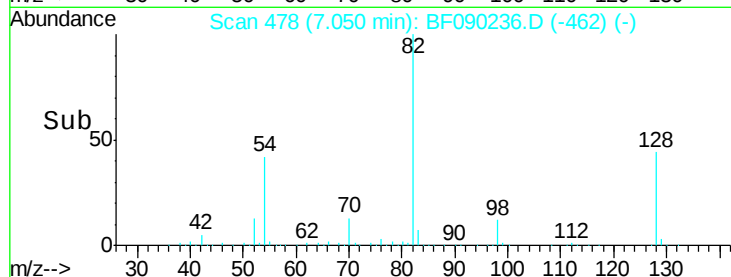
54 42.0 31.9 47.9



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



#31

Naphthalene

Concen: 4.58 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

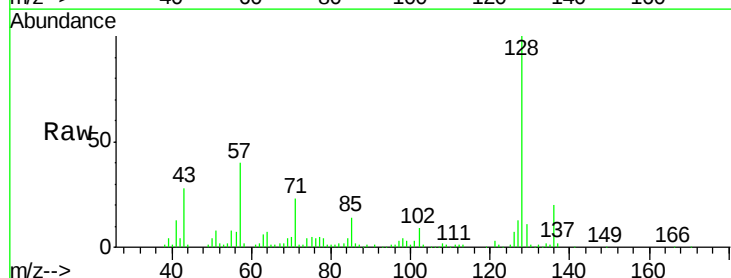
Tgt Ion: 128 Resp: 125262

Ion Ratio Lower Upper

128 100

129 11.0 9.3 13.9

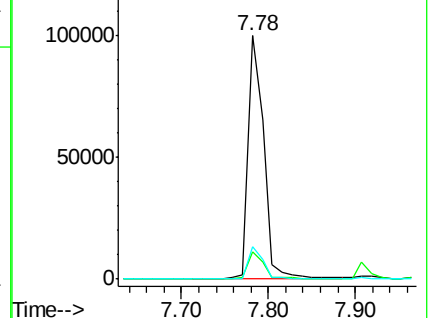
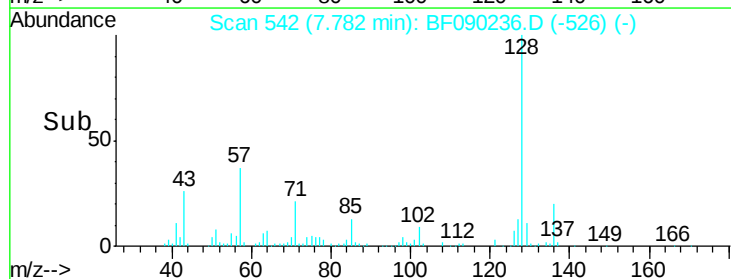
127 13.1 10.8 16.2

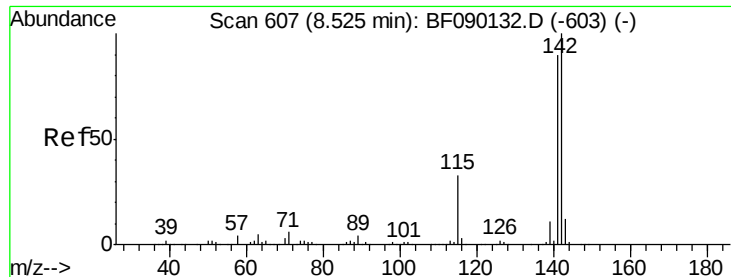


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

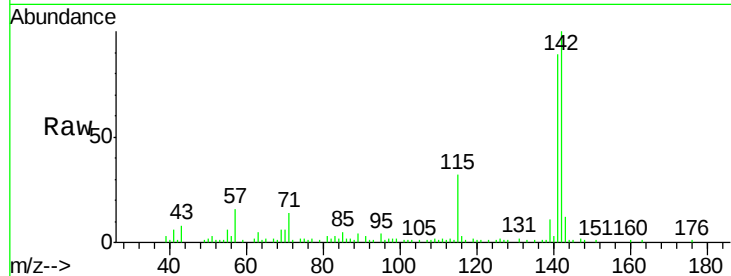




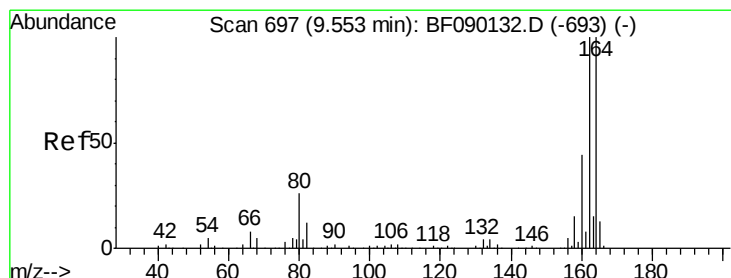
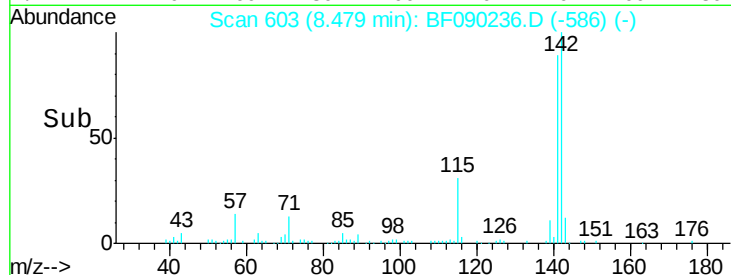
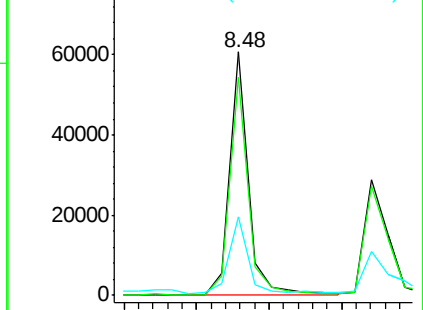
#37
2-Methylnaphthalene
Concen: 3.21 ng
RT: 8.48 min Scan# 603
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tgt Ion:142 Resp: 54525
Ion Ratio Lower Upper
142 100
141 89.3 71.4 107.2
115 32.1 28.3 42.5

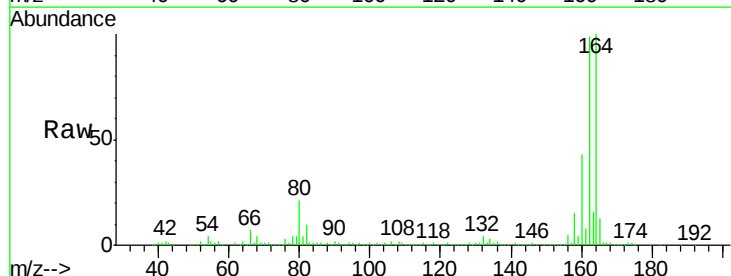


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

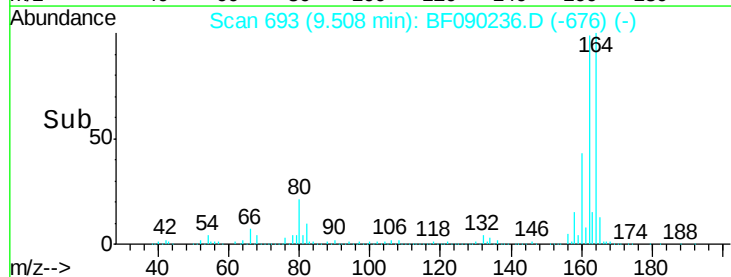
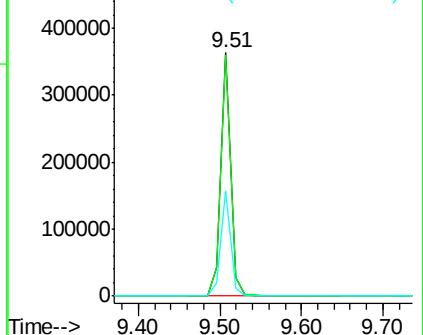


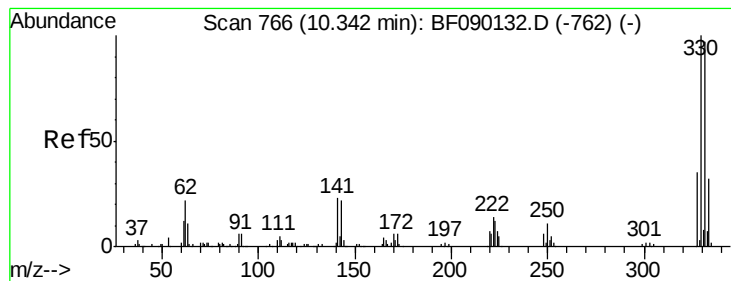
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.51 min Scan# 693
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion:164 Resp: 304539
Ion Ratio Lower Upper
164 100
162 98.9 81.4 122.2
160 43.3 36.6 54.8



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

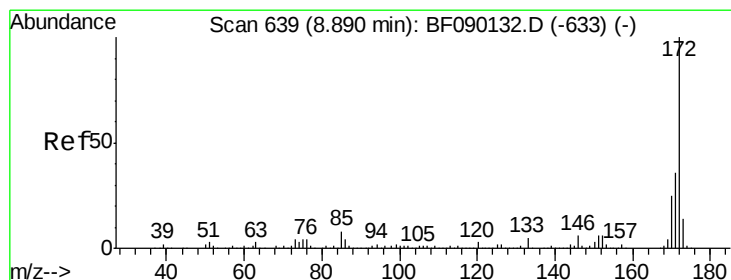
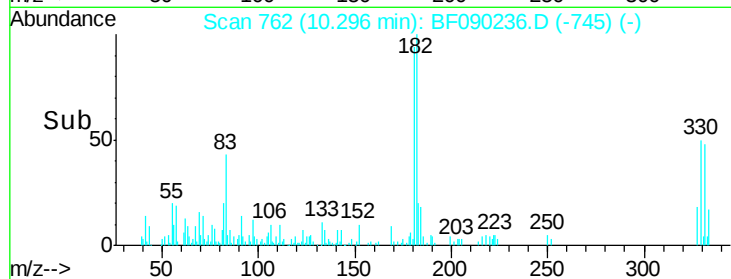
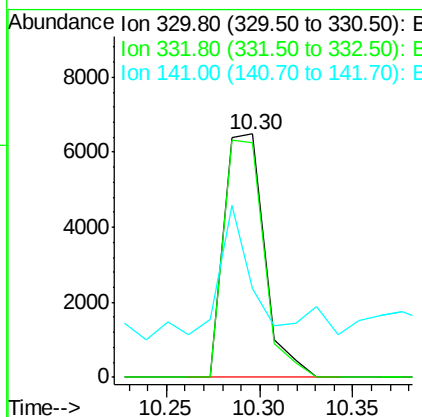
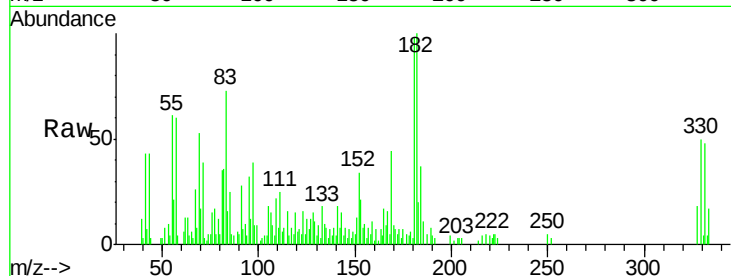




#41
 2,4,6-Tribromophenol
 Concen: 3.76 ng
 RT: 10.30 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

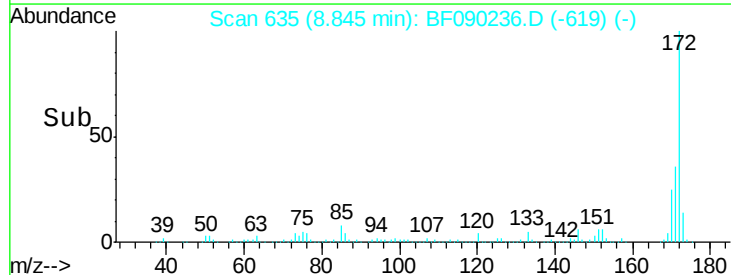
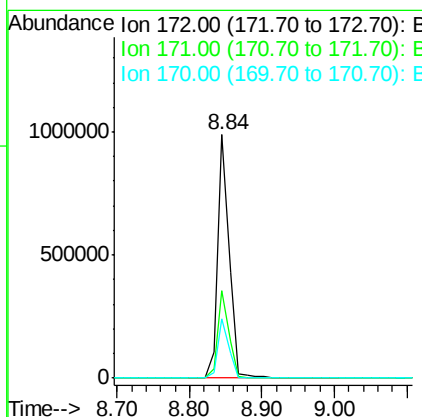
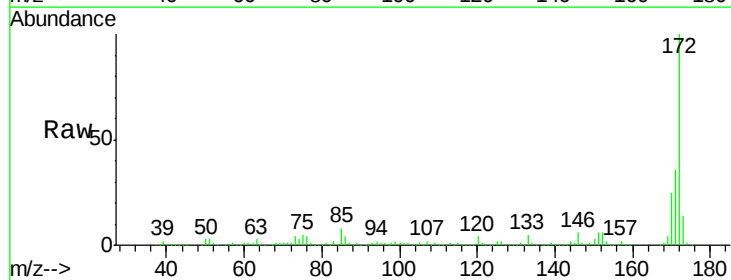
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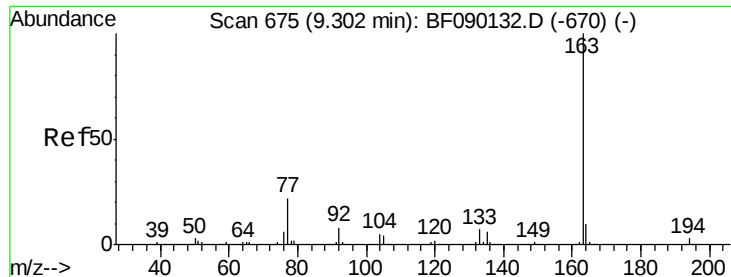
Tgt Ion:330 Resp: 9819
 Ion Ratio Lower Upper
 330 100
 332 97.0 78.1 117.1
 141 48.7 23.9 35.9#



#44
 2-Fluorobiphenyl
 Concen: 69.91 ng
 RT: 8.84 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Tgt Ion:172 Resp: 1084504
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.2 43.8
 170 24.6 19.8 29.8





#49

Dimethylphthalate

Concen: 18.40 ng

RT: 9.24 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

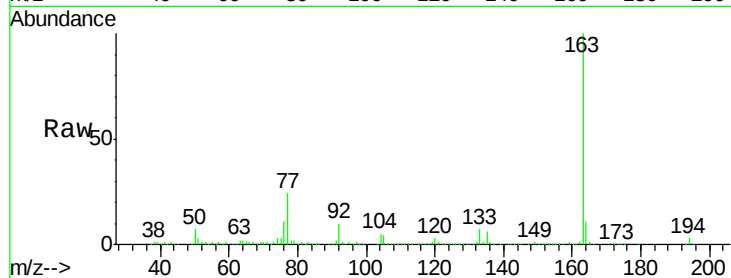
Tgt Ion:163 Resp: 356885

Ion Ratio Lower Upper

163 100

194 2.9 2.8 4.2

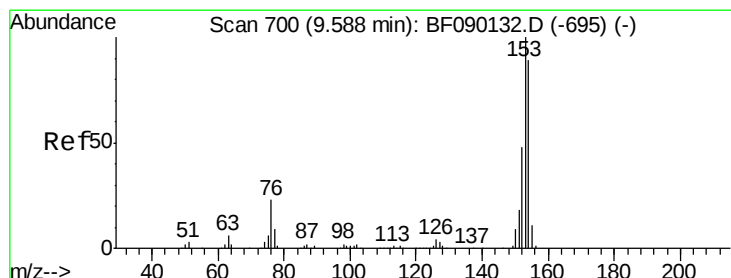
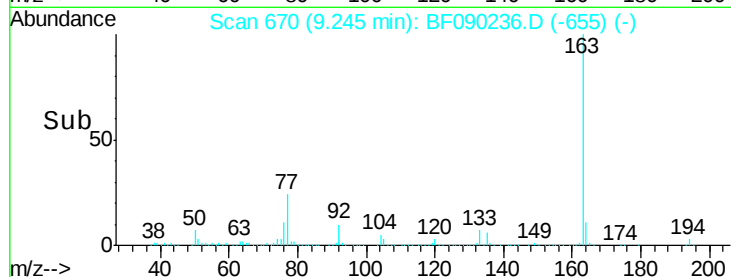
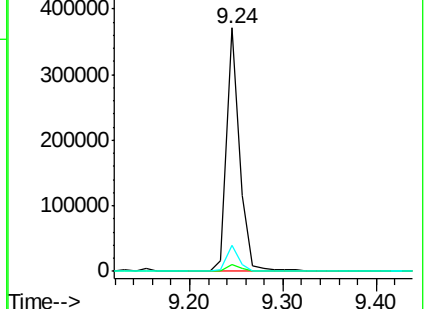
164 10.9 8.1 12.1



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



#51

Acenaphthene

Concen: 2.79 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

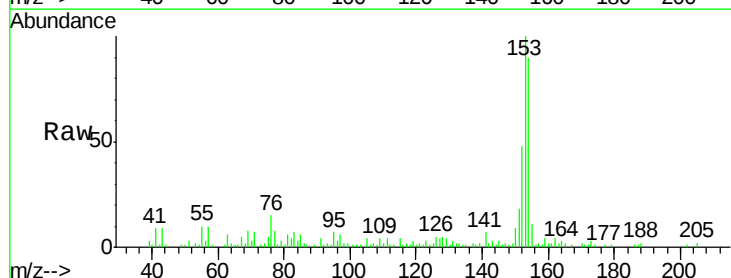
Tgt Ion:154 Resp: 43267

Ion Ratio Lower Upper

154 100

153 111.4 90.8 136.2

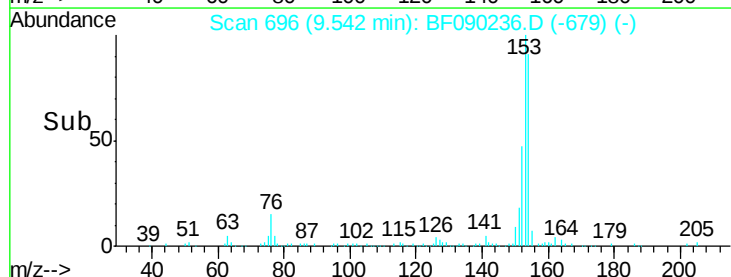
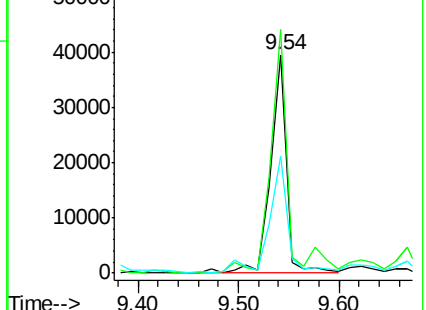
152 53.4 44.2 66.4

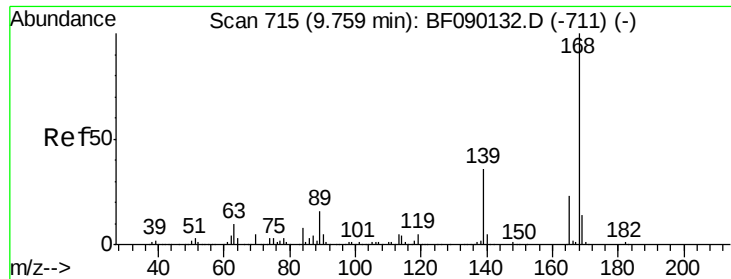


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

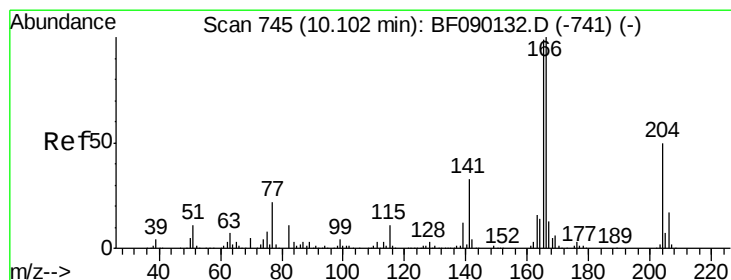
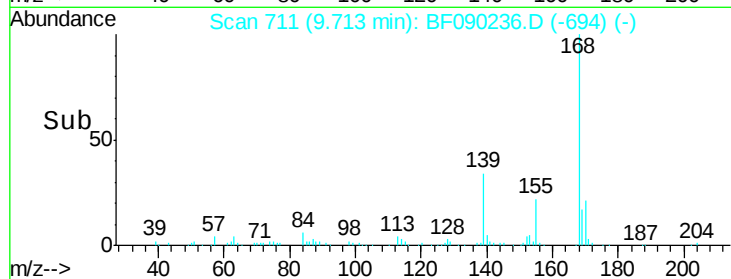
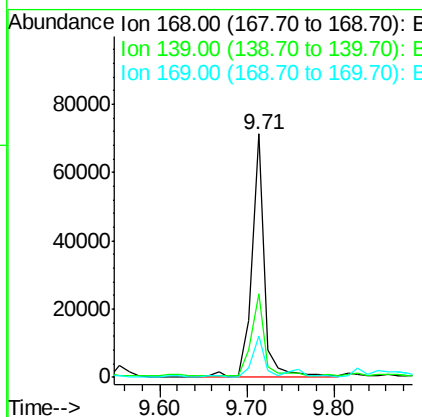
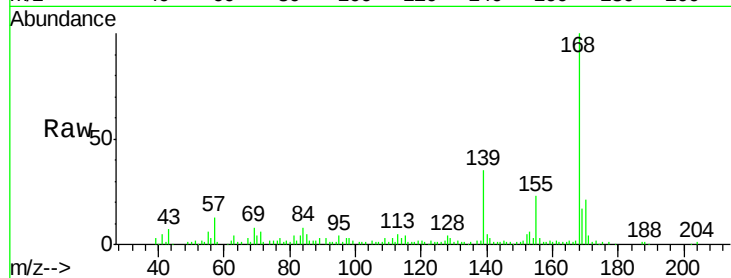




#54
Dibenzofuran
Concen: 3.60 ng
RT: 9.71 min Scan# 711
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

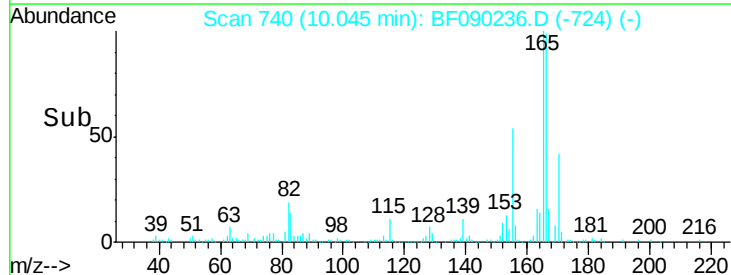
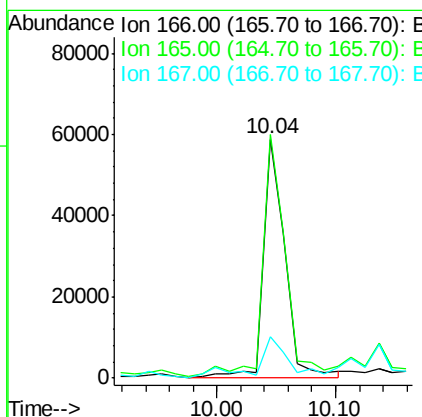
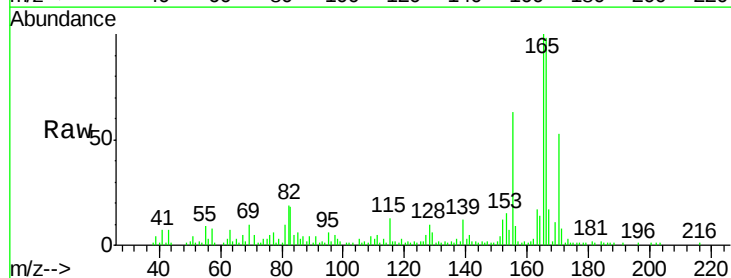
Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

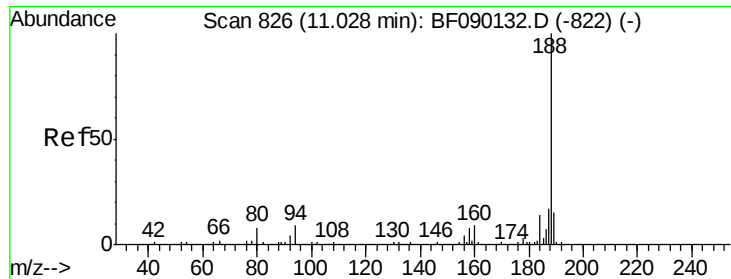
Tgt Ion:168 Resp: 73414
Ion Ratio Lower Upper
168 100
139 34.6 28.8 43.2
169 17.0 10.7 16.1#



#57
Fluorene
Concen: 4.83 ng
RT: 10.04 min Scan# 740
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion:166 Resp: 74224
Ion Ratio Lower Upper
166 100
165 102.1 78.5 117.7
167 17.1 11.2 16.8#

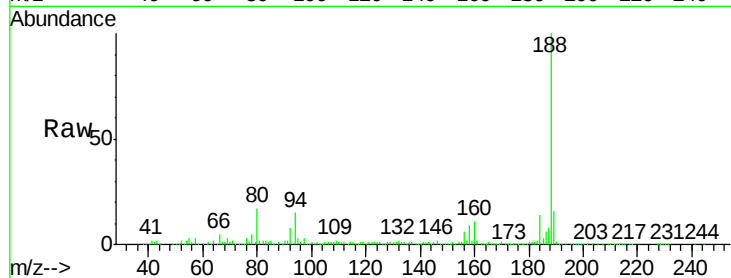




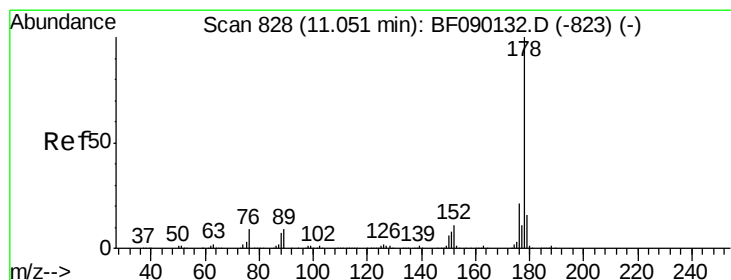
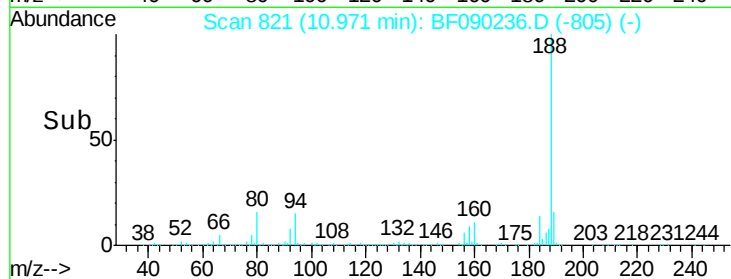
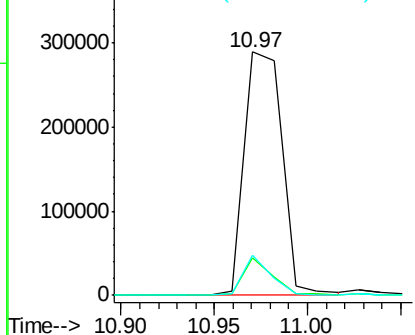
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.97 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tgt Ion:188 Resp: 406846
Ion Ratio Lower Upper
188 100
94 15.2 10.5 15.7
80 16.6 11.2 16.8

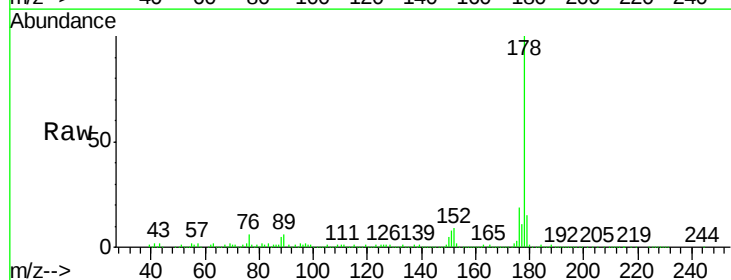


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

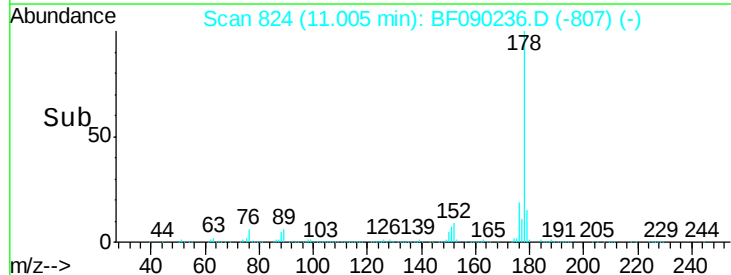
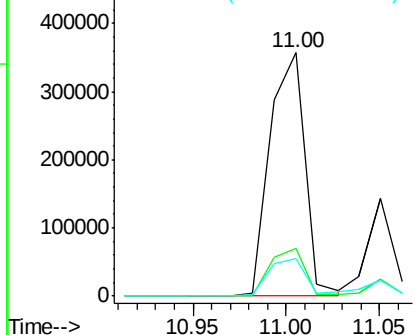


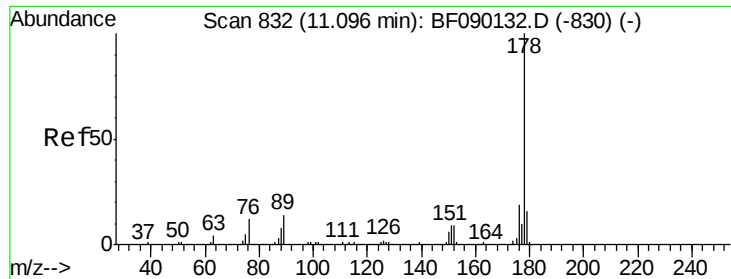
#70
Phenanthrene
Concen: 24.25 ng
RT: 11.00 min Scan# 824
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion:178 Resp: 461331
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.4 12.9 19.3



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

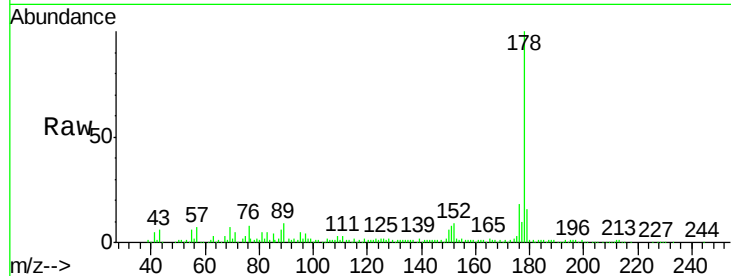




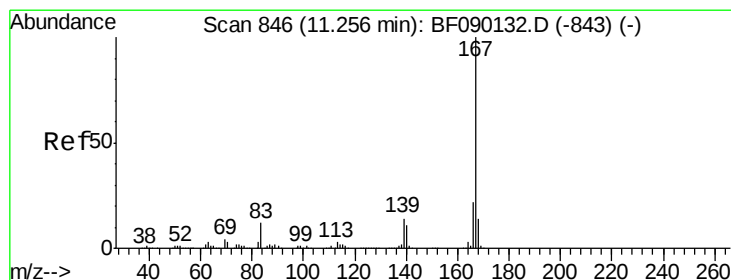
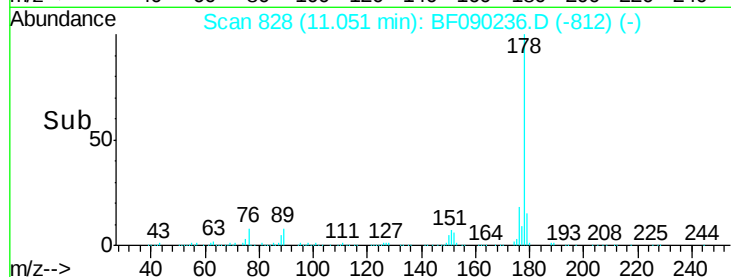
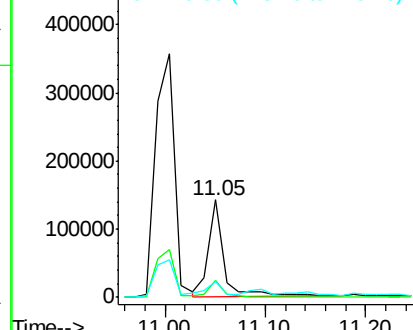
#71
 Anthracene
 Concen: 7.45 ng
 RT: 11.05 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILLRE

Tgt Ion:178 Resp: 148702
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.8 23.6
 179 16.0 12.6 19.0

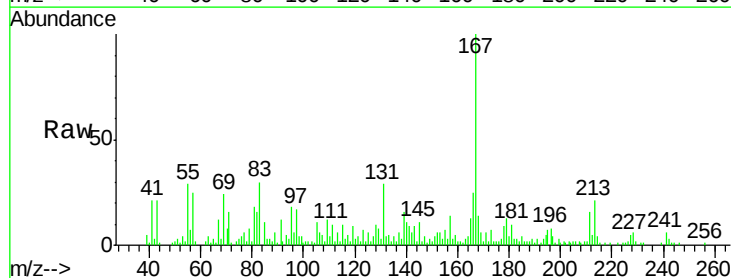


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

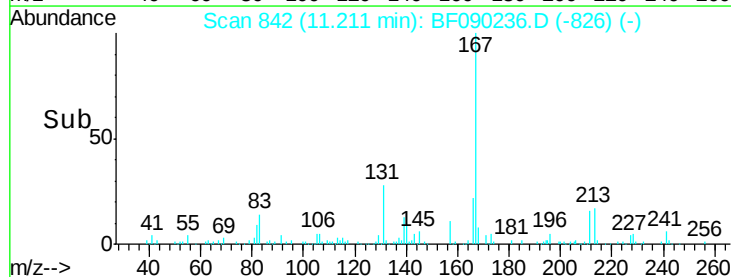
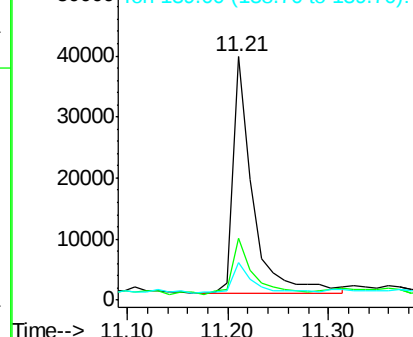


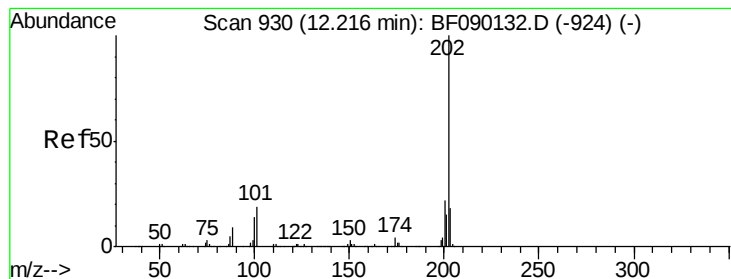
#72
 Carbazole
 Concen: 2.48 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.01 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Tgt Ion:167 Resp: 52372
 Ion Ratio Lower Upper
 167 100
 166 25.4 18.0 27.0
 139 15.5 10.4 15.6



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





#74

Fluoranthene

Concen: 17.33 ng

RT: 12.17 min Scan# 926

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

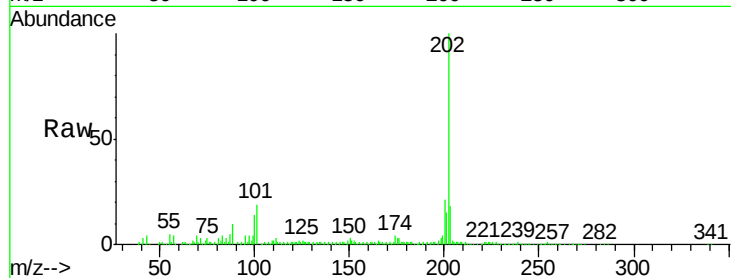
Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

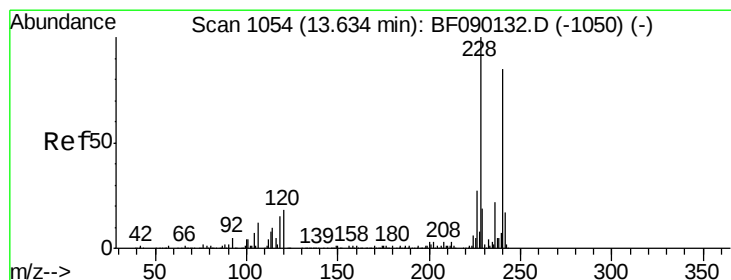
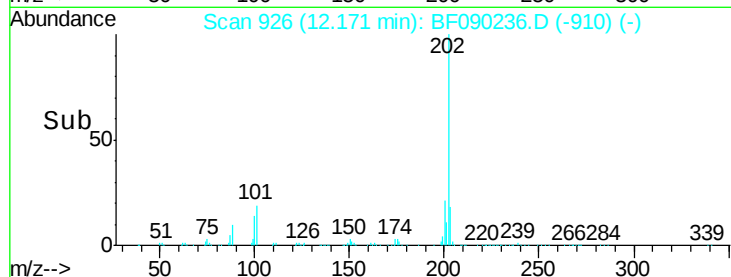
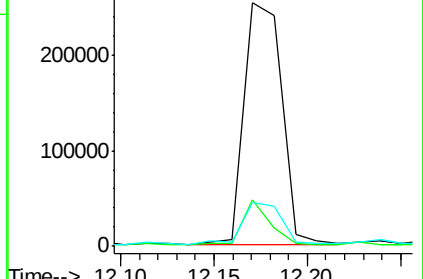
Tgt Ion:	202	Resp:	353917
Ion Ratio	Lower	Upper	
202	100		
101	19.0	0.0	36.1
203	18.2	0.0	38.2



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

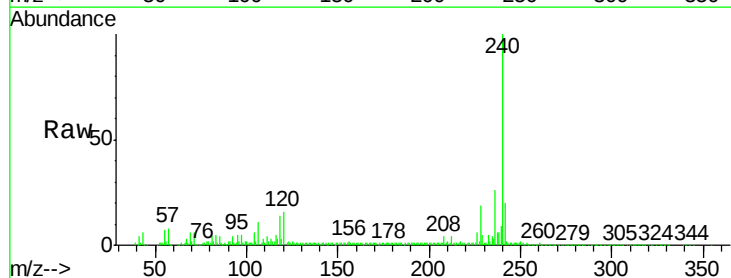
RT: 13.59 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

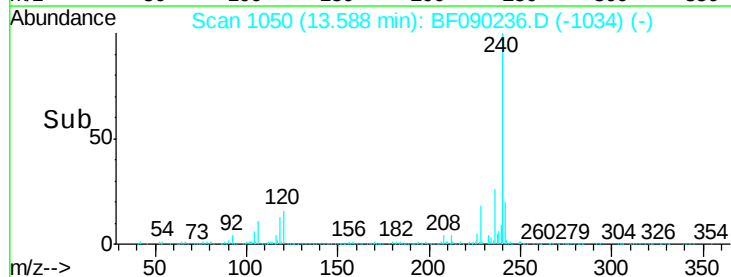
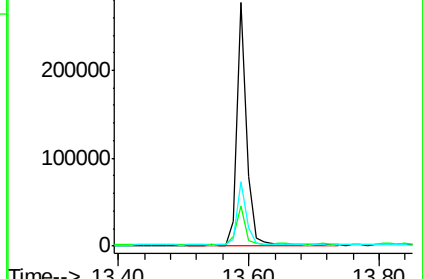
Tgt Ion:	240	Resp:	282057
Ion Ratio	Lower	Upper	
240	100		
120	16.3	10.6	16.0#
236	26.4	21.6	32.4

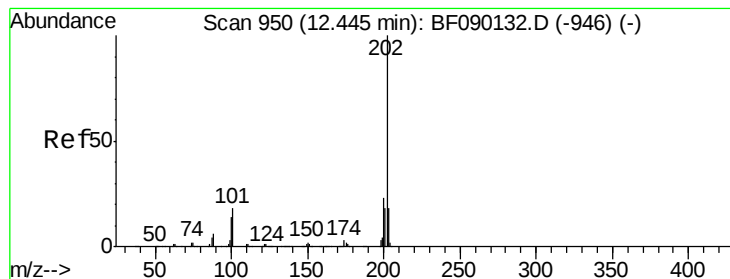


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 15.98 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

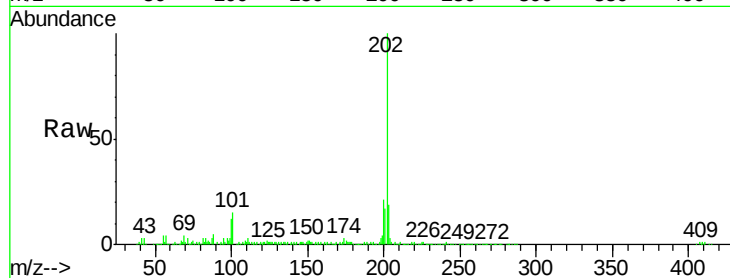
Tgt Ion:202 Resp: 308363

Ion Ratio Lower Upper

202 100

200 21.3 17.9 26.9

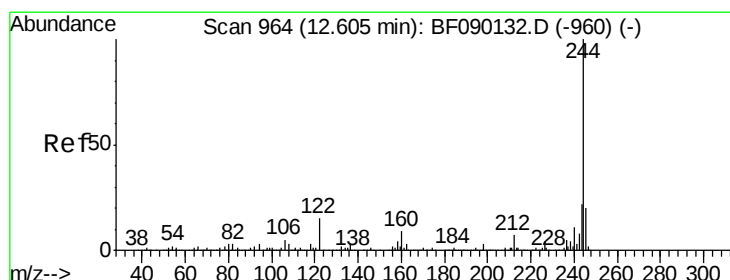
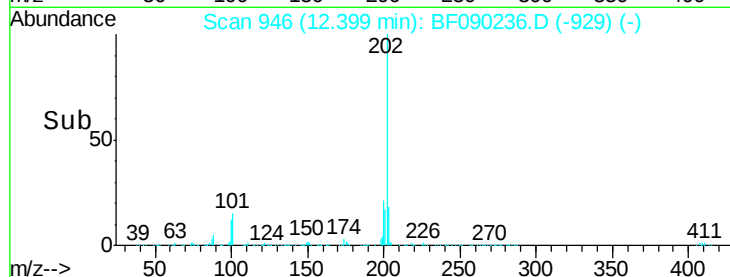
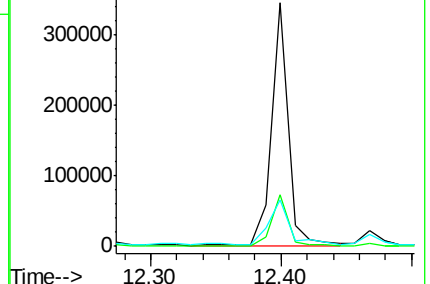
203 18.9 14.2 21.4



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: 67.73 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

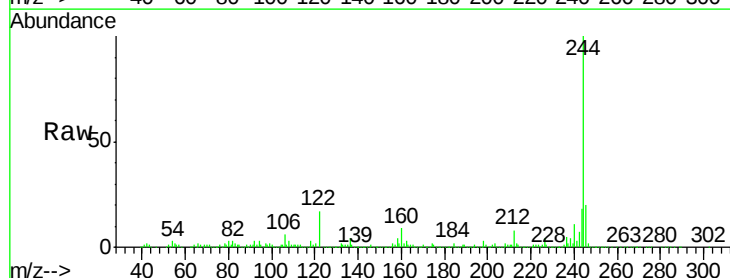
Tgt Ion:244 Resp: 752508

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.8

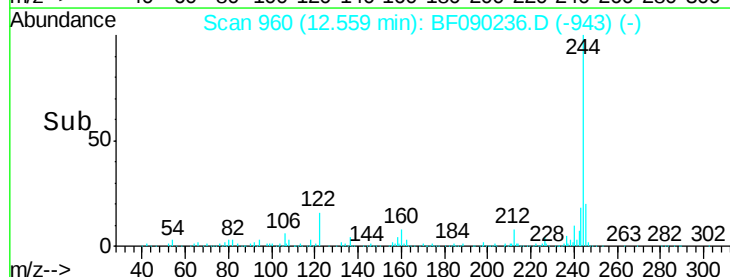
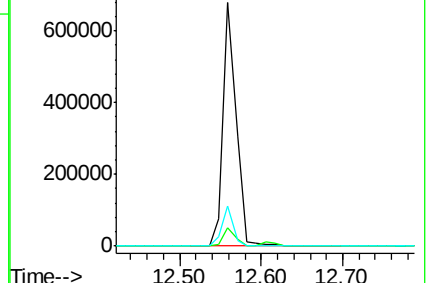
122 16.6 9.4 14.0#

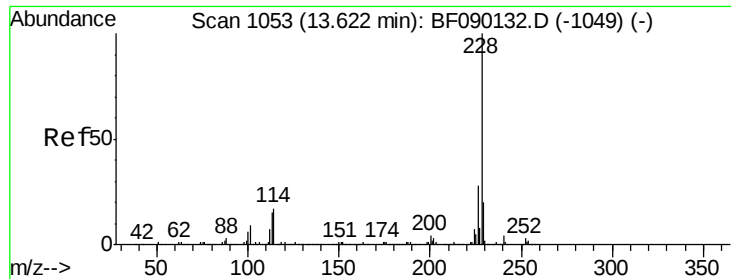


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

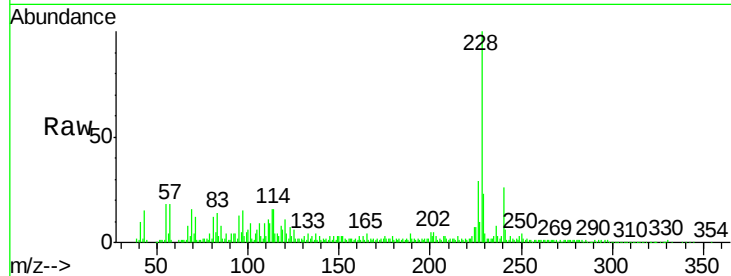




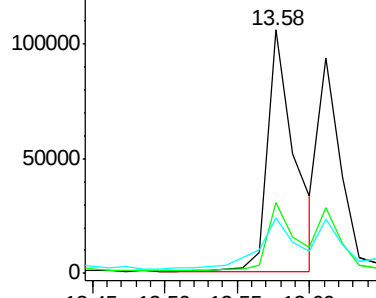
#80
Benzo(a)anthracene
Concen: 9.13 ng
RT: 13.58 min Scan# 1049
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

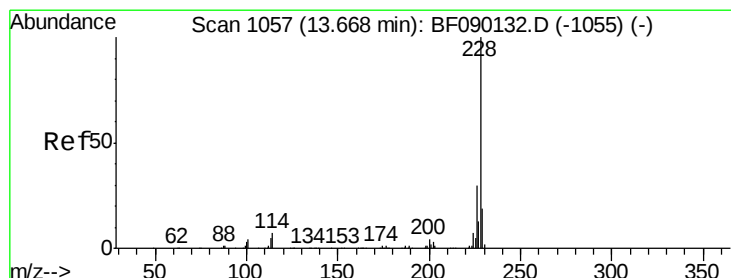
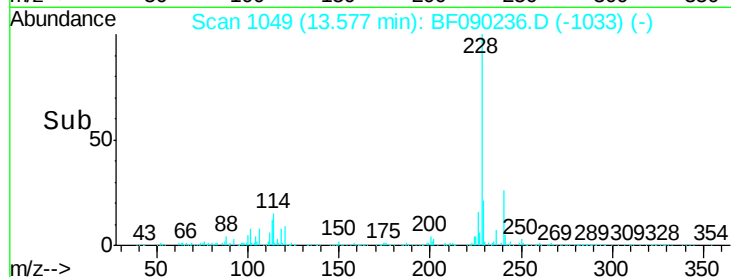
Tgt Ion:228 Resp: 138473
Ion Ratio Lower Upper
228 100
226 29.2 22.0 33.0
229 22.9 16.2 24.2



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

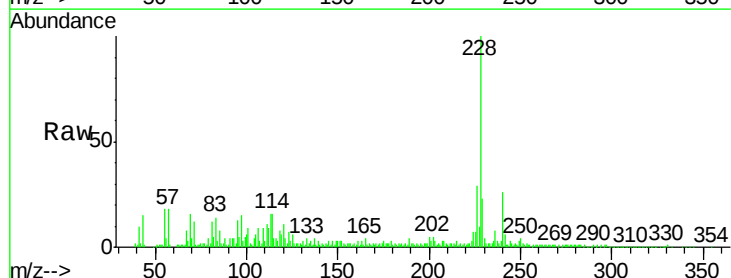


Time--> 13.45 13.50 13.55 13.60

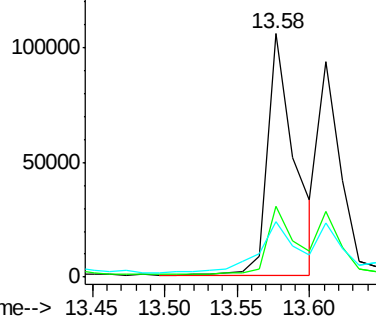


#82
Chrysene
Concen: 9.37 ng
RT: 13.58 min Scan# 1049
Delta R.T. -0.05 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

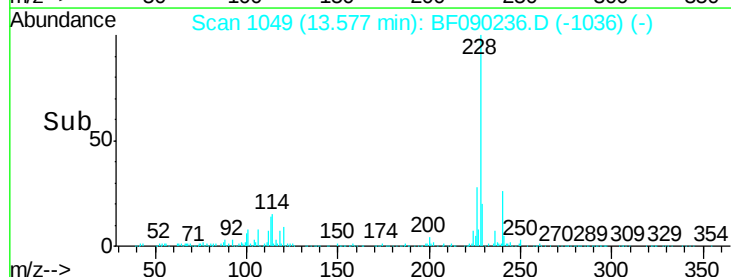
Tgt Ion:228 Resp: 138473
Ion Ratio Lower Upper
228 100
226 29.2 24.6 37.0
229 22.9 16.2 24.4

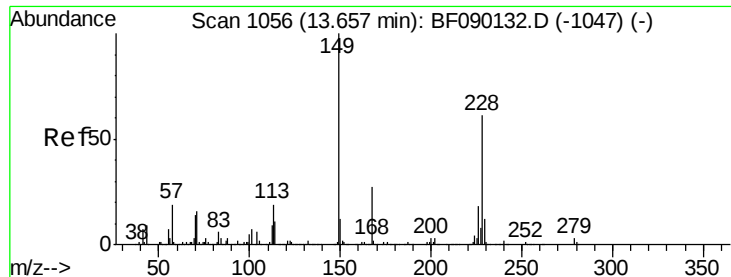


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time--> 13.45 13.50 13.55 13.60

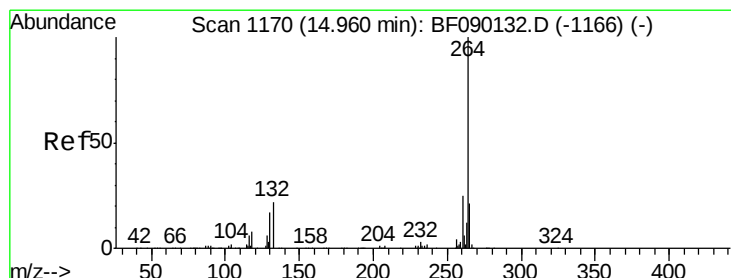
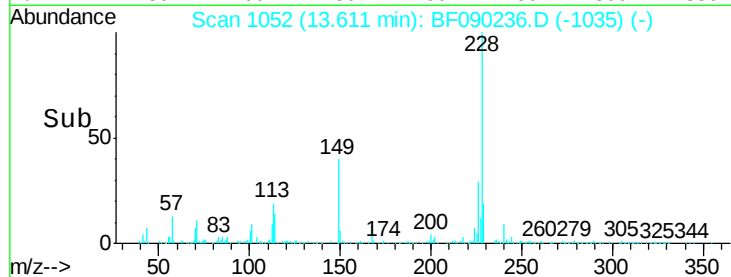
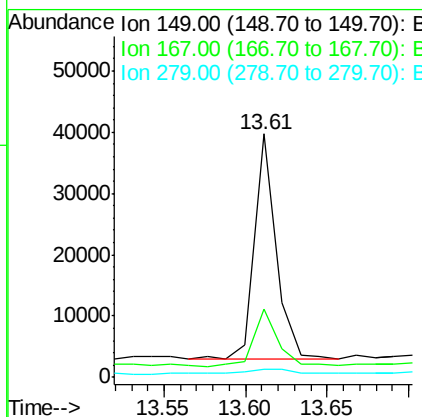
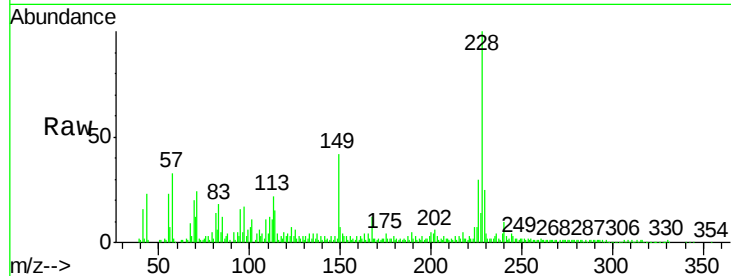




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.81 ng
 RT: 13.61 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

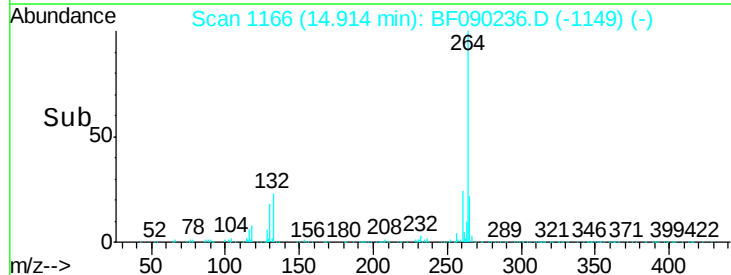
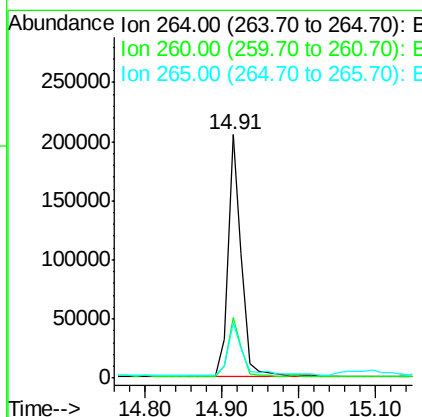
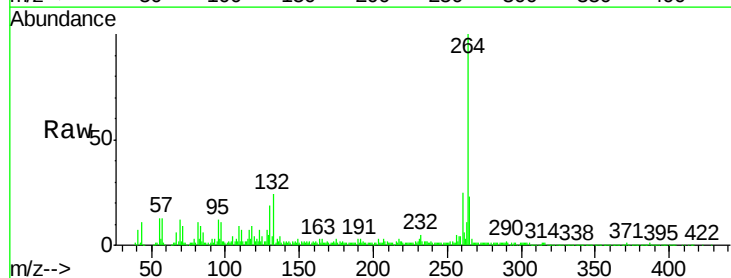
Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILLRE

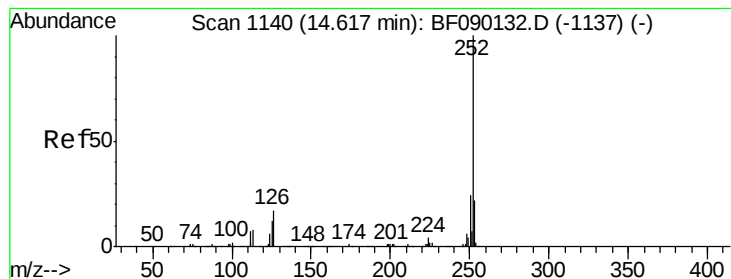
Tgt Ion:149 Resp: 33949
 Ion Ratio Lower Upper
 149 100
 167 28.3 21.2 31.8
 279 3.5 2.2 3.2#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.91 min Scan# 1166
 Delta R.T. -0.00 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Tgt Ion:264 Resp: 253328
 Ion Ratio Lower Upper
 264 100
 260 25.0 19.5 29.3
 265 22.7 17.0 25.4





#87

Benzo(b)fluoranthene

Concen: 12.32 ng

RT: 14.57 min Scan# 1136

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

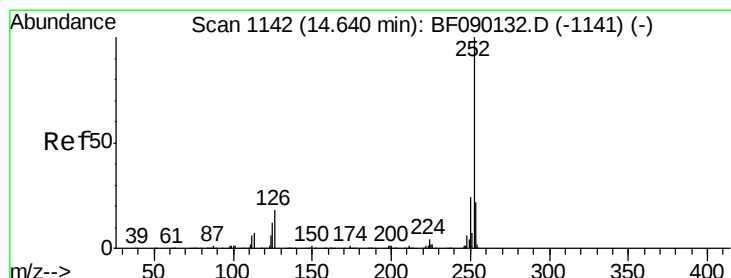
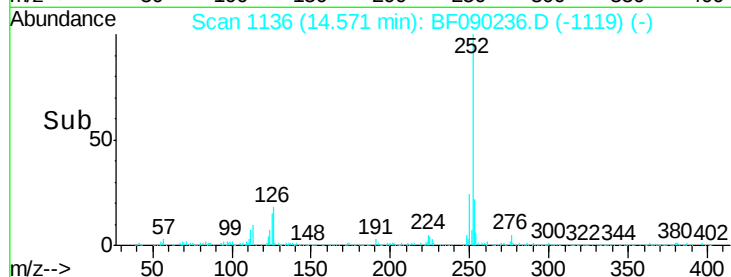
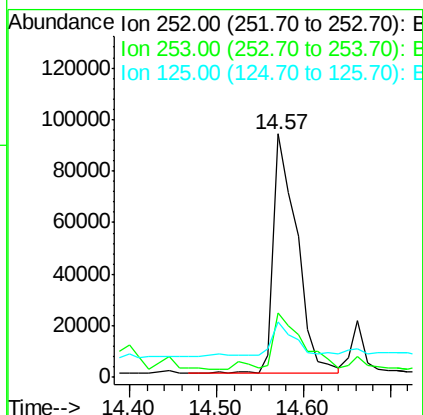
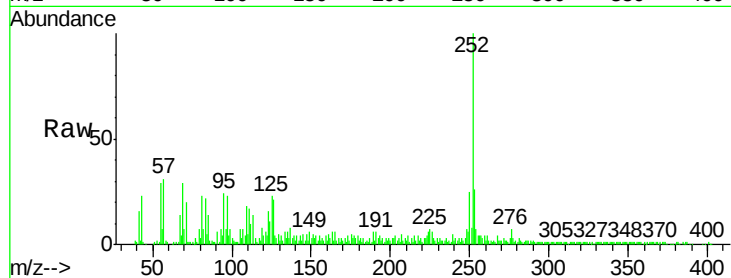
Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

Tgt Ion:	252	Resp:	172861
Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.9	26.9
125	22.9	12.7	19.1#



#88

Benzo(k)fluoranthene

Concen: 13.13 ng

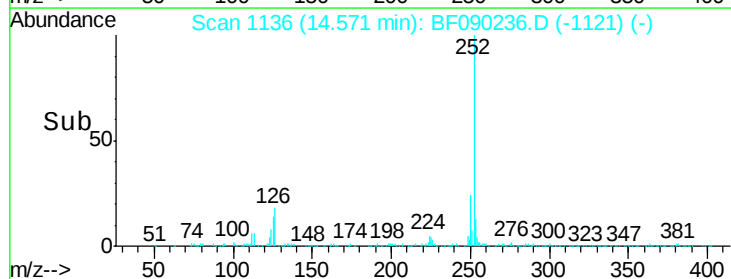
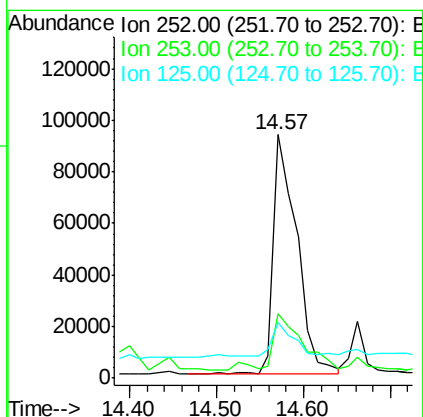
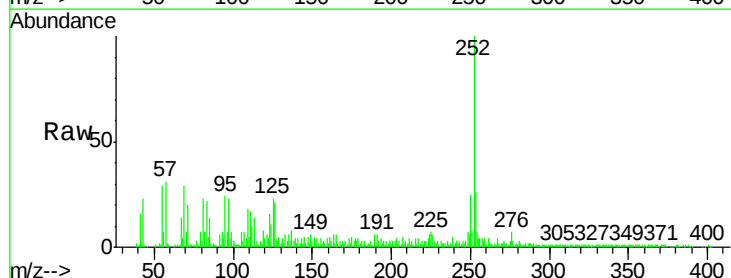
RT: 14.57 min Scan# 1136

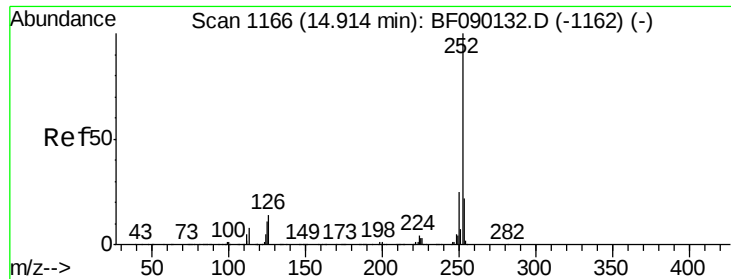
Delta R.T. -0.02 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion:	252	Resp:	172861
Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.8	26.8
125	22.9	7.8	11.6#

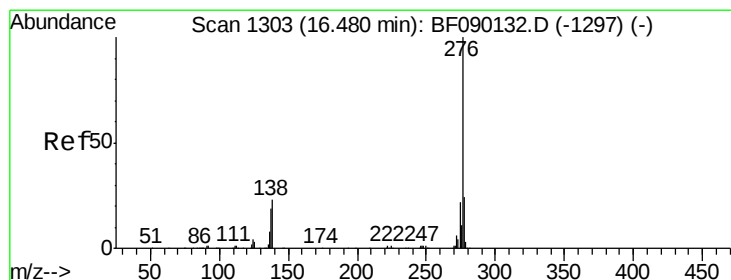
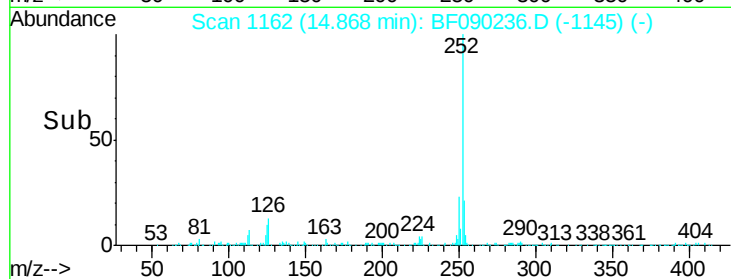
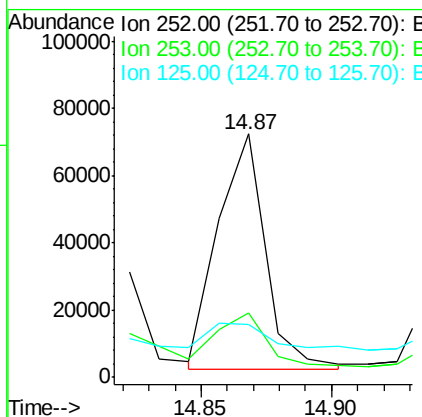
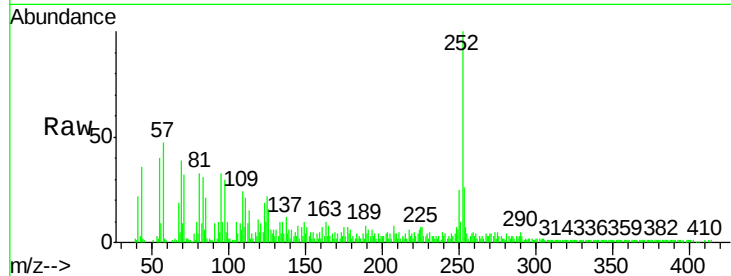




#89
Benzo(a)pyrene
Concen: 6.81 ng
RT: 14.87 min Scan# 1162
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tgt Ion: 252 Resp: 89898
Ion Ratio Lower Upper
252 100
253 26.2 17.4 26.0#
125 21.5 7.7 11.5#



#91
Benzo(g,h,i)perylene
Concen: 4.63 ng
RT: 16.41 min Scan# 1297
Delta R.T. 0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion: 276 Resp: 46707
Ion Ratio Lower Upper
276 100
277 28.1 18.9 28.3
138 29.9 23.3 34.9

