

Data Path : Z:\HPCHEM1\BNA F\Data\BF092116\
 Data File : BF090158.D
 Acq On : 21 Sep 2016 14:02
 Operator : UM/SJ
 Sample : H4850-02DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 21 14:29:20 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

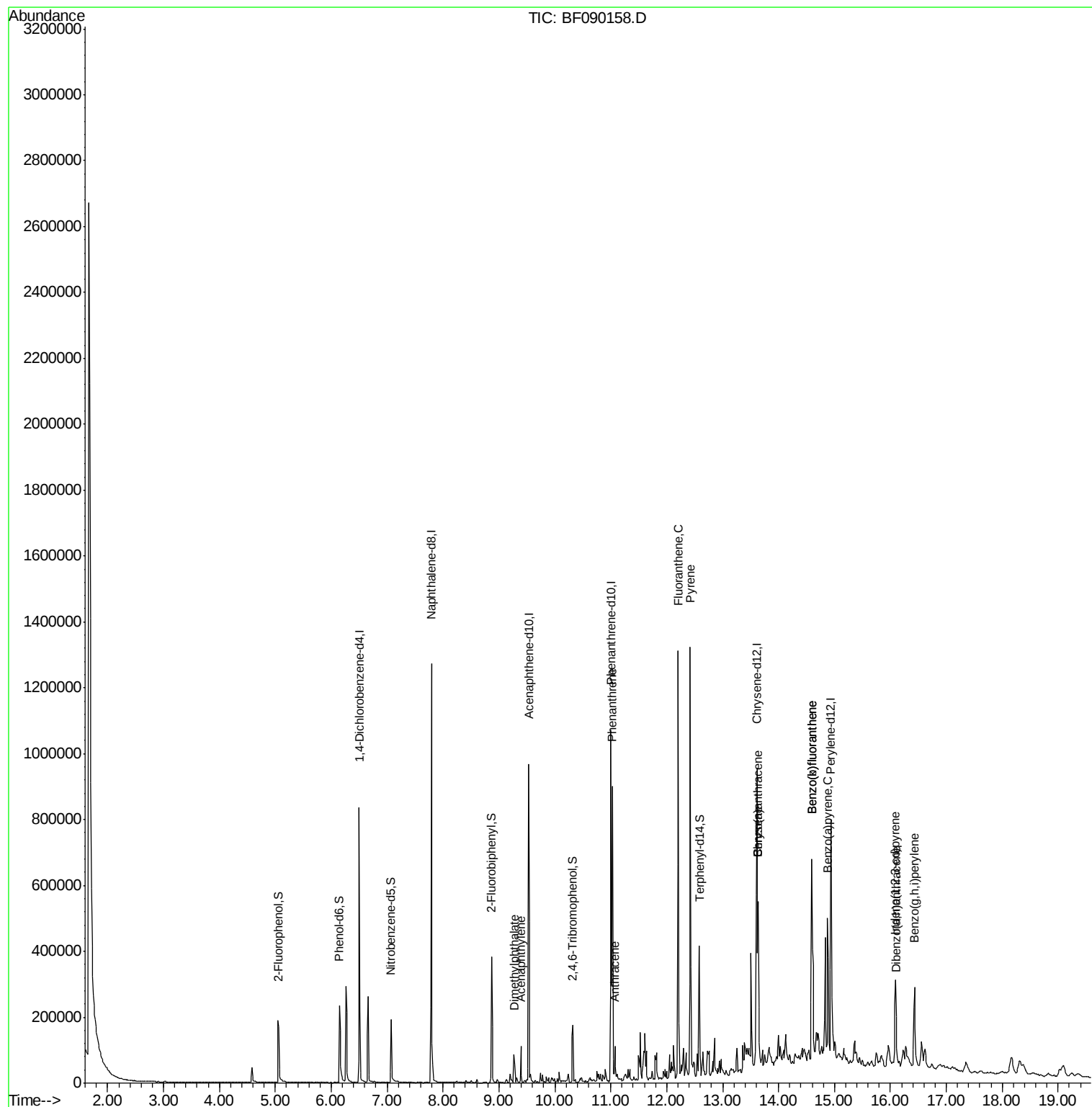
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	144498	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	590345	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	255646	20.00	ng	-0.02
63) Phenanthrene-d10	11.00	188	414855	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	257566	20.00	ng	-0.02
86) Perylene-d12	14.94	264	301465	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	108319	12.22	ng	-0.01
7) Phenol-d6	6.15	99	154186	14.08	ng	-0.02
23) Nitrobenzene-d5	7.07	82	84629	8.31	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	28357	12.93	ng	-0.02
44) 2-Fluorobiphenyl	8.87	172	151730	11.65	ng	-0.02
78) Terphenyl-d14	12.58	244	118717	11.70	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.39	152	48158	2.20	ng	98
49) Dimethylphthalate	9.27	163	47751	2.93	ng	98
70) Phenanthrene	11.03	178	343274	17.69	ng	98
71) Anthracene	11.07	178	53097	2.61	ng	97
74) Fluoranthene	12.21	202	619366	29.74	ng	93
77) Pyrene	12.42	202	524759	29.77	ng	98
80) Benzo(a)anthracene	13.63	228	169674	12.24	ng	96
82) Chrysene	13.63	228	172354	12.77	ng	98
85) Indeno(1,2,3-cd)pyrene	16.09	276	170270	15.60	ng	94
87) Benzo(b)fluoranthene	14.59	252	380252	22.78	ng	98
88) Benzo(k)fluoranthene	14.59	252	380252	24.27	ng	# 96
89) Benzo(a)pyrene	14.88	252	213586	13.60	ng	# 91
90) Dibenzo(a,h)anthracene	16.10	278	34966	2.85	ng	# 90
91) Benzo(g,h,i)perylene	16.43	276	171036	14.26	ng	95

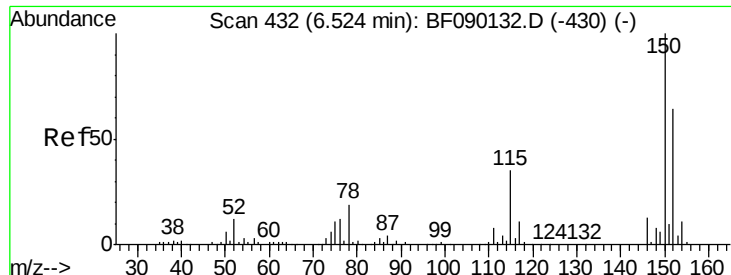
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\Data\BF092116\
Data File : BF090158.D
Acq On : 21 Sep 2016 14:02
Operator : UM/SJ
Sample : H4850-02DL 10X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Sep 21 14:29:20 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 20 17:58:29 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.50 min Scan# 430

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Instrument :

BNA_F

ClientSampleId :

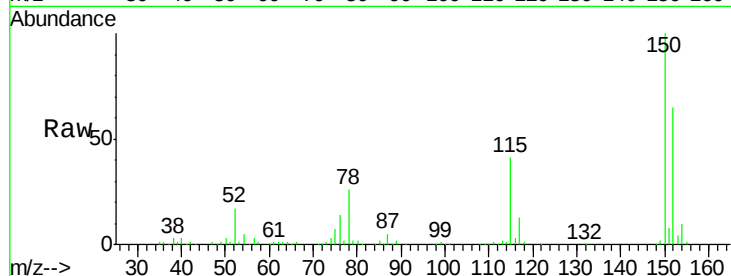
Tot Ion:152 Resp: 144498

Ion Ratio Lower Upper

152 100

150 154.9 128.9 193.3

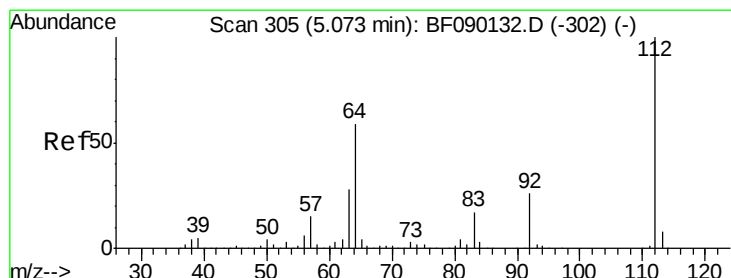
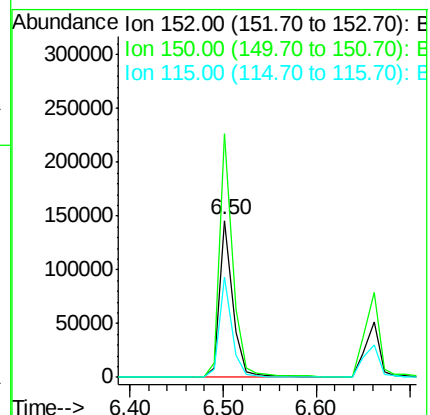
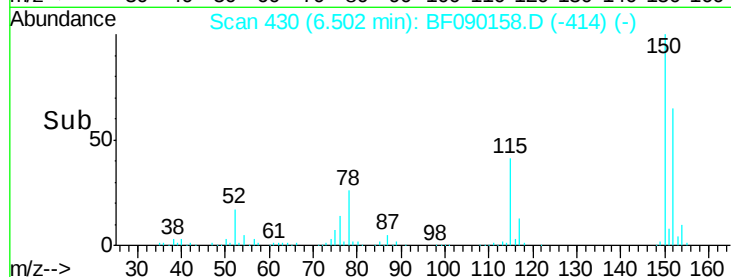
115 63.7 55.5 83.3



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: 12.22 ng

RT: 5.06 min Scan# 304

Delta R.T. -0.01 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

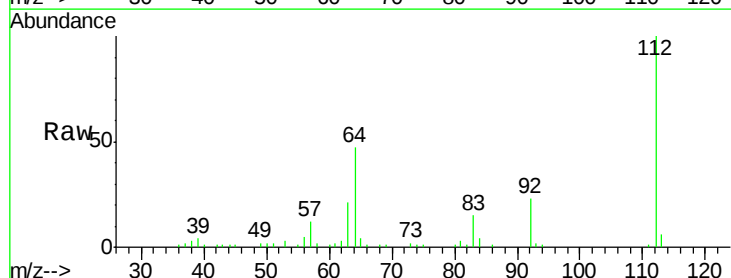
Tgt Ion:112 Resp: 108319

Ion Ratio Lower Upper

112 100

64 47.0 39.8 59.6

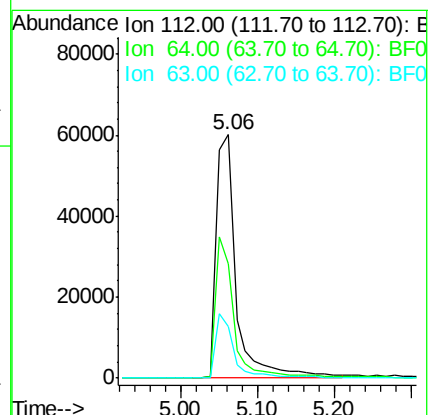
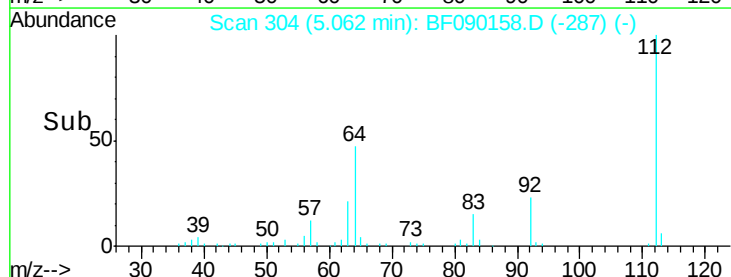
63 21.4 18.9 28.3



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: 14.08 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Instrument :

BNA_F

ClientSampleId :

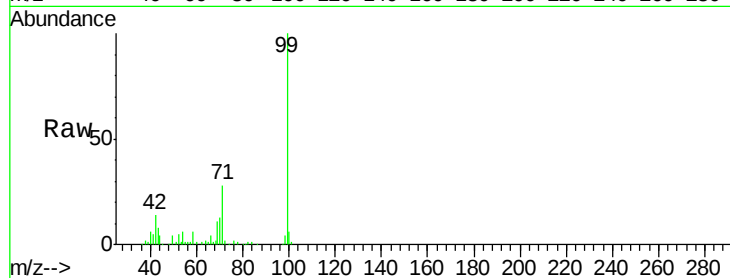
Tot Ion: 99 Resp: 154186

Ion Ratio Lower Upper

99 100

42 14.1 10.6 15.8

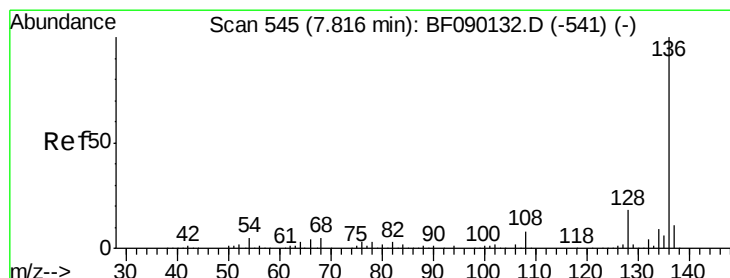
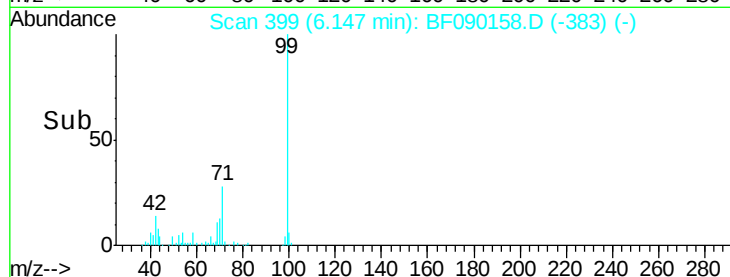
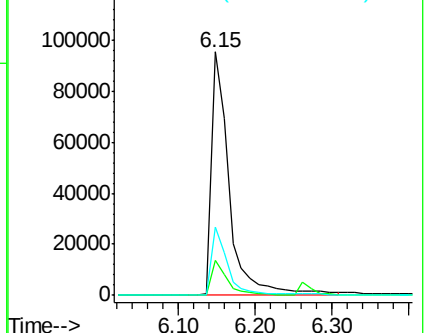
71 28.0 23.0 34.6



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.79 min Scan# 543

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Tgt Ion: 136 Resp: 590345

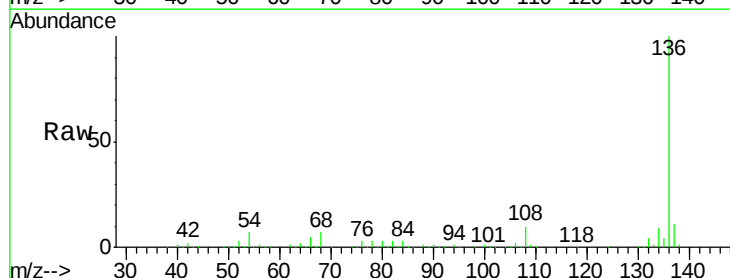
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.0 6.4 9.6

68 6.7 6.3 9.5

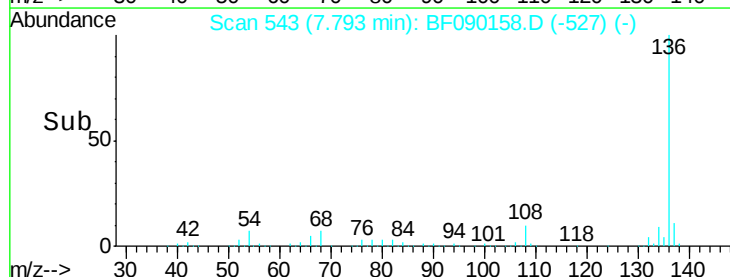
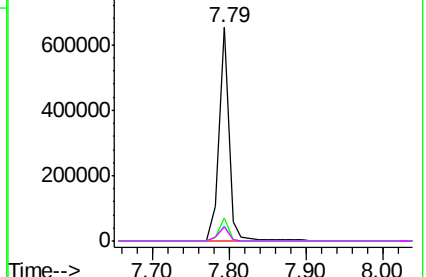


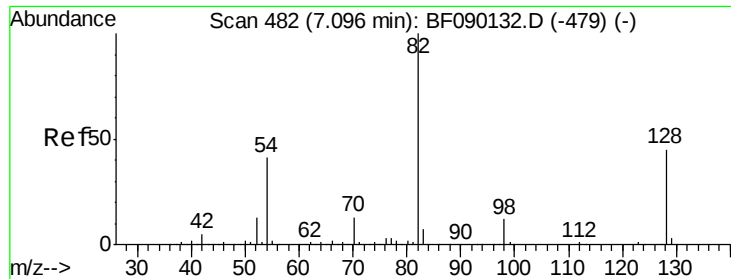
Abundance Ion 136.00 (135.70 to 136.70): E

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

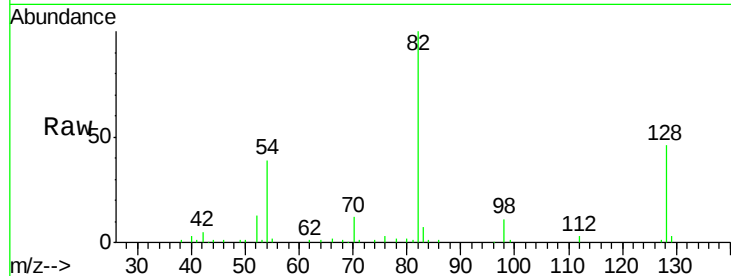




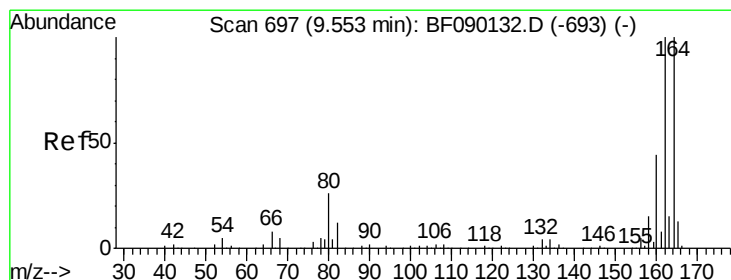
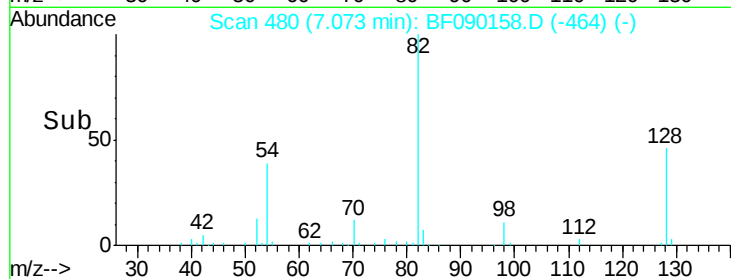
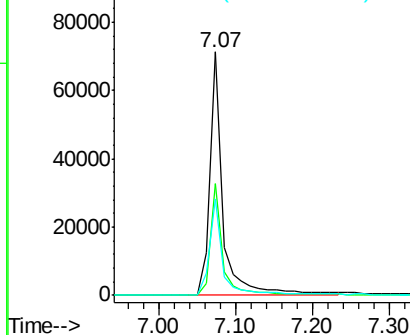
#23
 Nitrobenzene-d5
 Concen: 8.31 ng
 RT: 7.07 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	84629
Ion Ratio	100	Lower	Upper
128	46.2	37.5	56.3
54	39.4	31.9	47.9

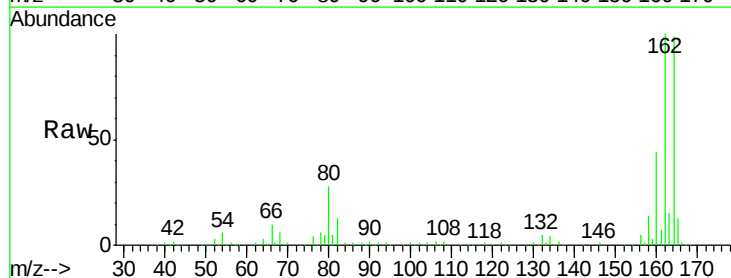


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

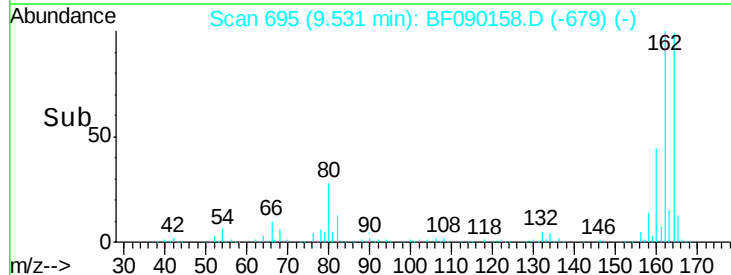
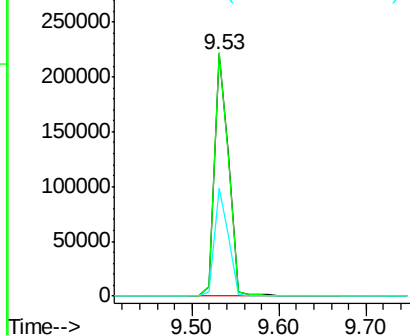


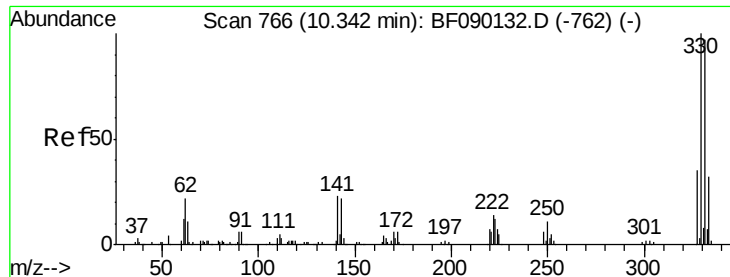
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 695
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Tgt Ion	164	Resp	255646
Ion Ratio	100	Lower	Upper
162	100.7	81.4	122.2
160	44.6	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

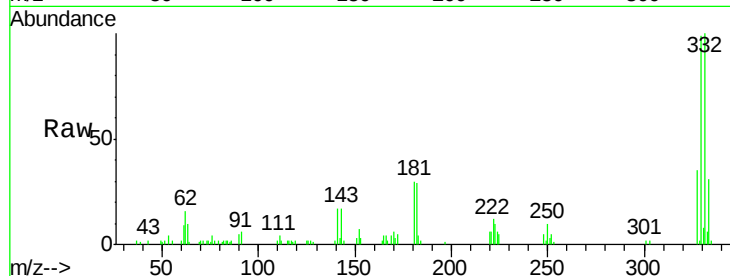




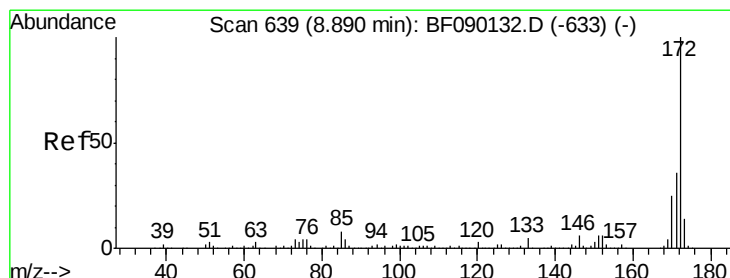
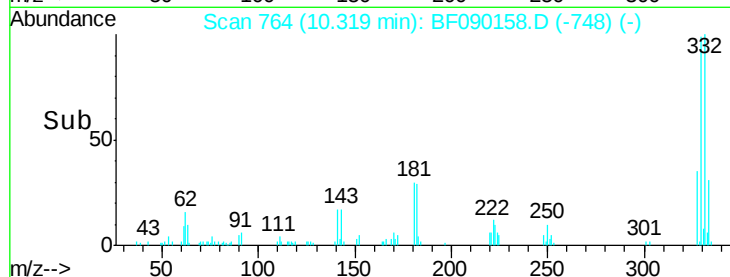
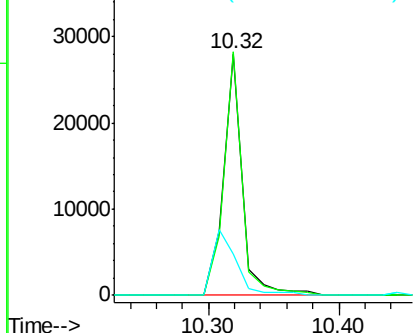
#41
 2,4,6-Tribromophenol
 Concen: 12.93 ng
 RT: 10.32 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.1	117.1
141	34.5	23.9	35.9

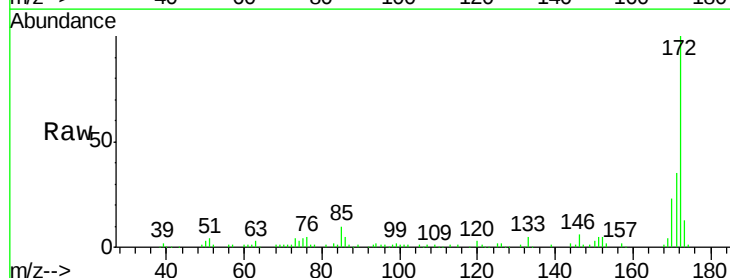


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

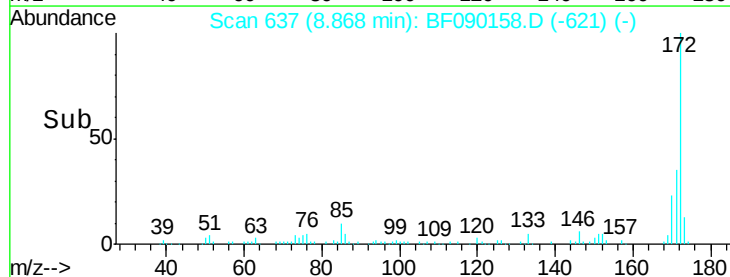
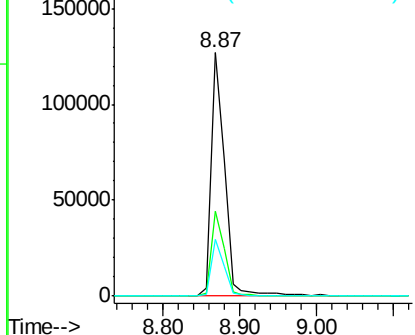


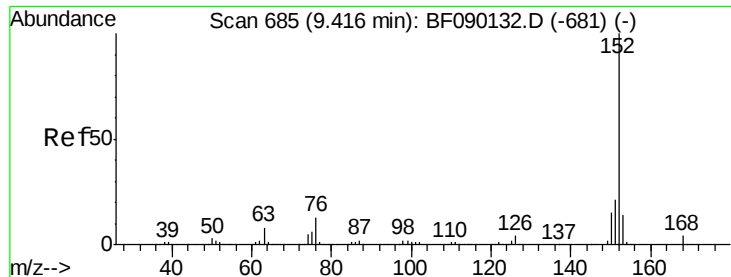
#44
 2-Fluorobiphenyl
 Concen: 11.65 ng
 RT: 8.87 min Scan# 637
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.2	43.8
170	23.3	19.8	29.8



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





#48

Acenaphthylene

Concen: 2.20 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Instrument :

BNA_F

ClientSampleId :

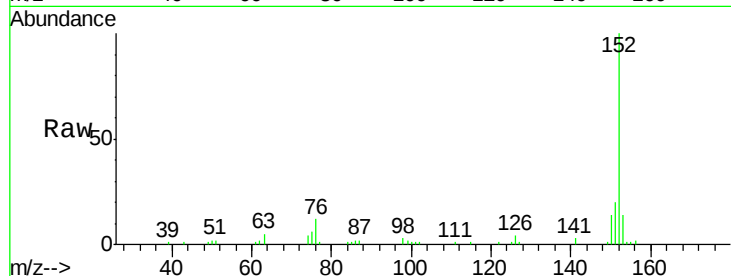
Tot Ion:152 Resp: 48158

Ion Ratio Lower Upper

152 100

151 19.8 16.5 24.7

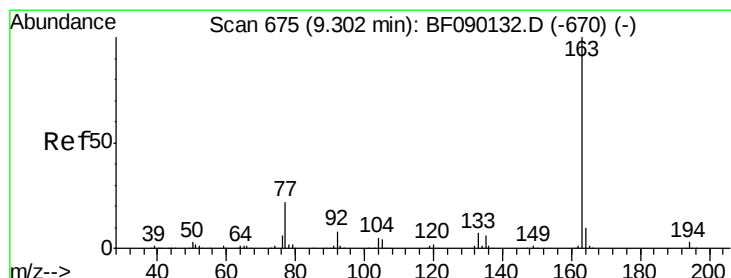
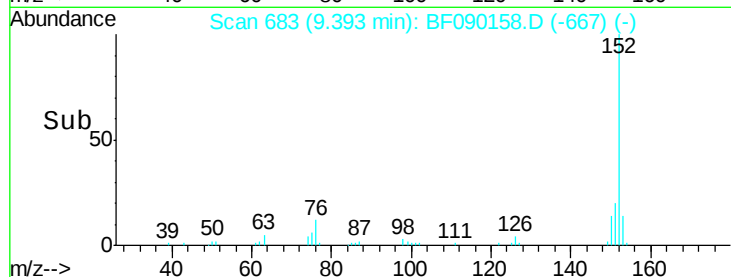
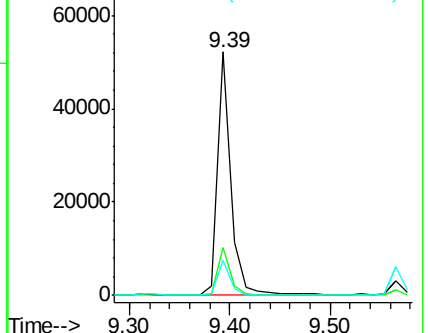
153 14.2 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.93 ng

RT: 9.27 min Scan# 672

Delta R.T. -0.03 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

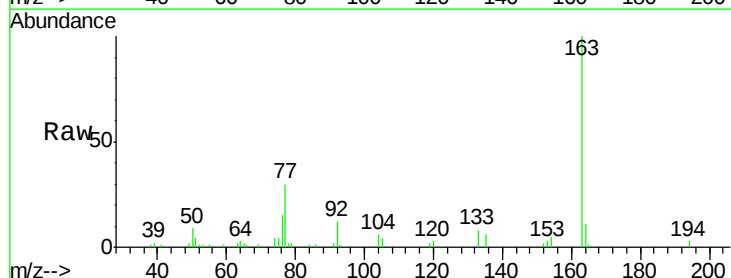
Tgt Ion:163 Resp: 47751

Ion Ratio Lower Upper

163 100

194 2.8 2.8 4.2

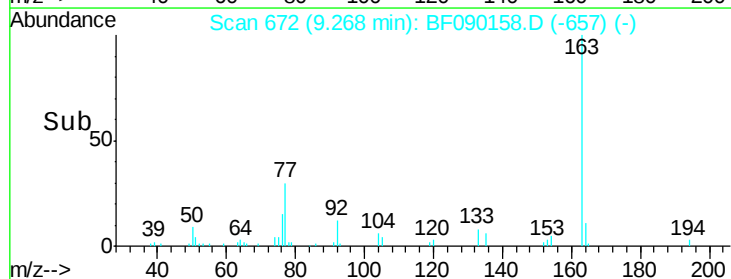
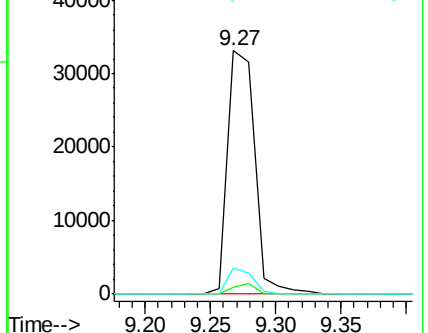
164 10.6 8.1 12.1

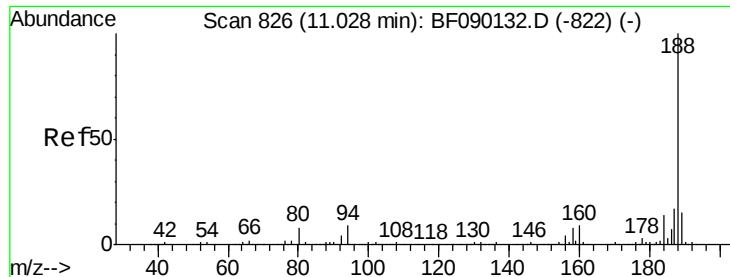


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

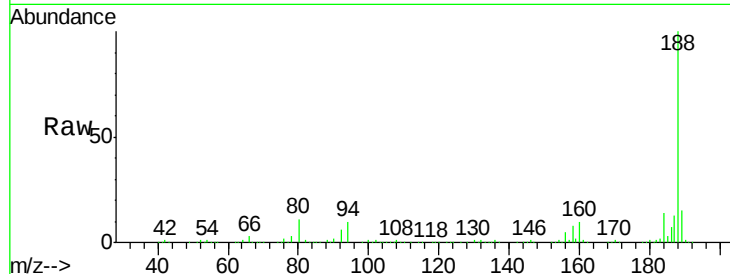




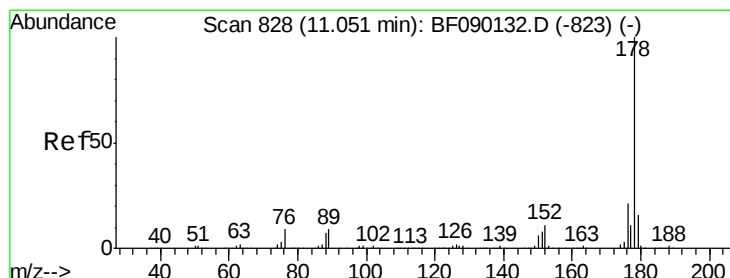
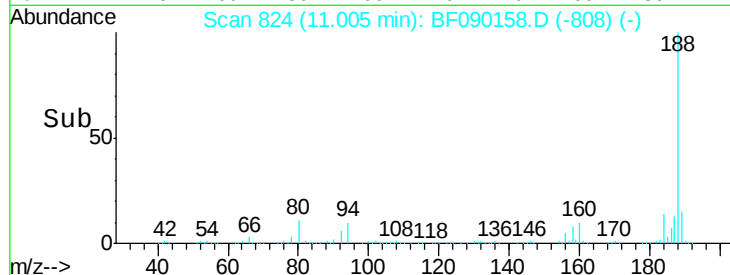
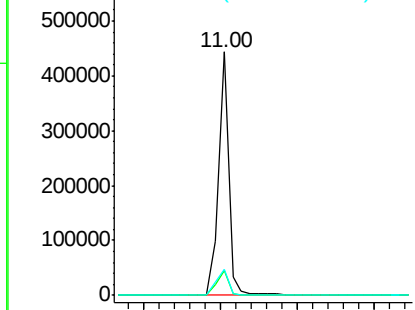
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.00 min Scan# 824
Delta R.T. -0.02 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 414855
Ion Ratio Lower Upper
188 100
94 10.3 10.5 15.7#
80 10.5 11.2 16.8#

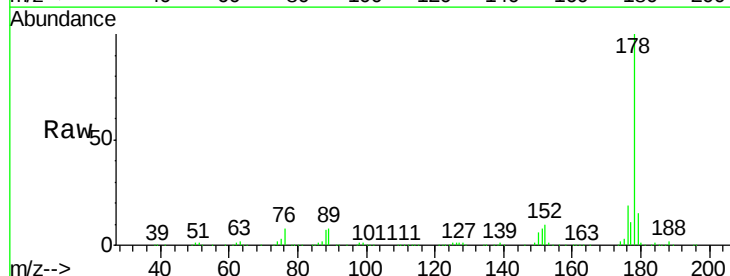


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

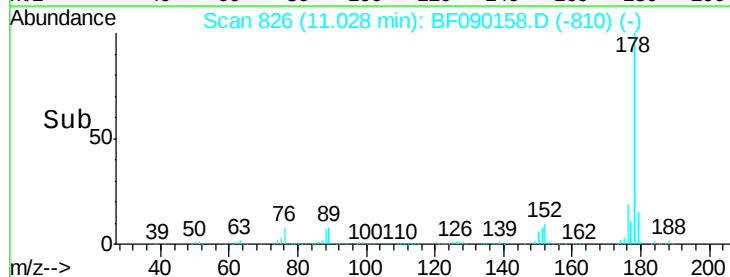
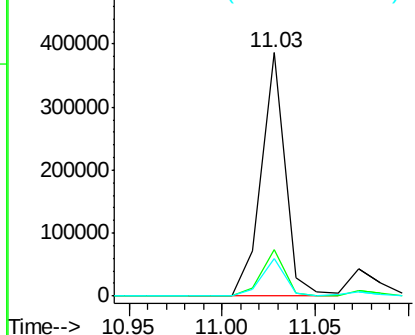


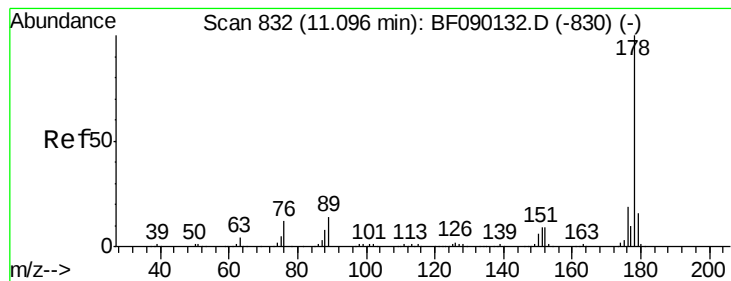
#70
Phenanthrene
Concen: 17.69 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.02 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Tgt Ion:178 Resp: 343274
Ion Ratio Lower Upper
178 100
176 19.1 15.9 23.9
179 15.2 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

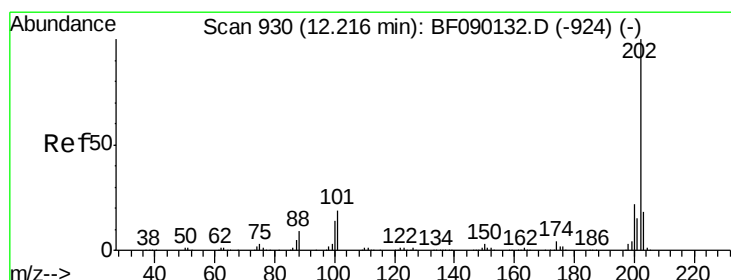
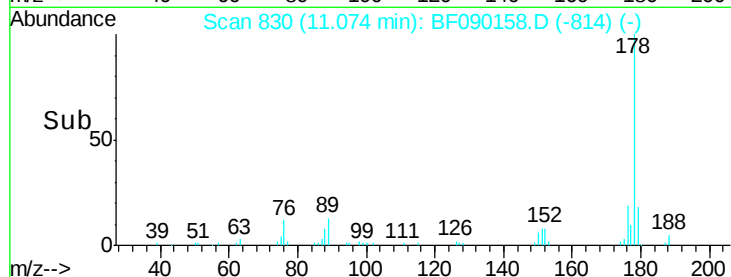
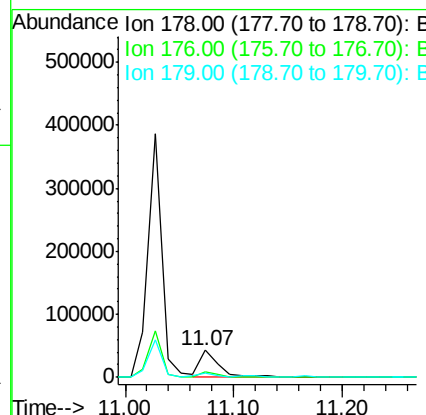
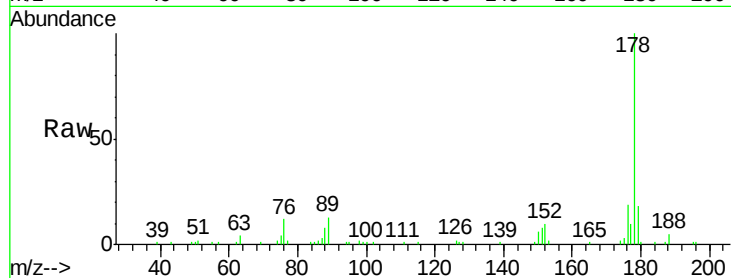




#71
 Anthracene
 Concen: 2.61 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

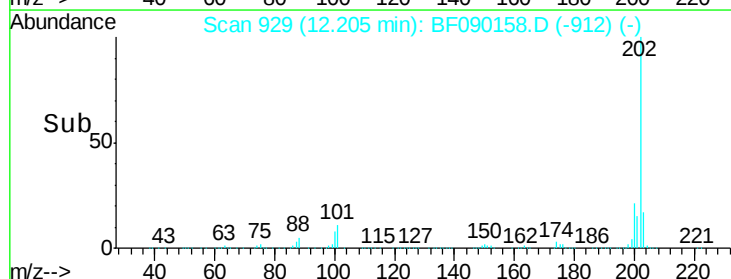
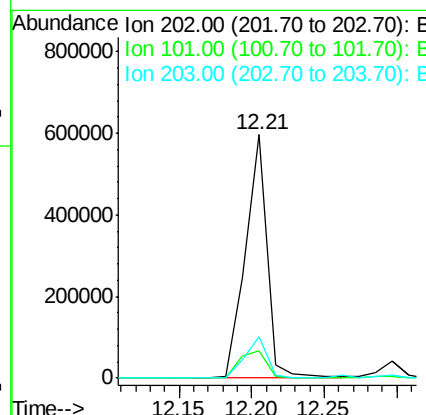
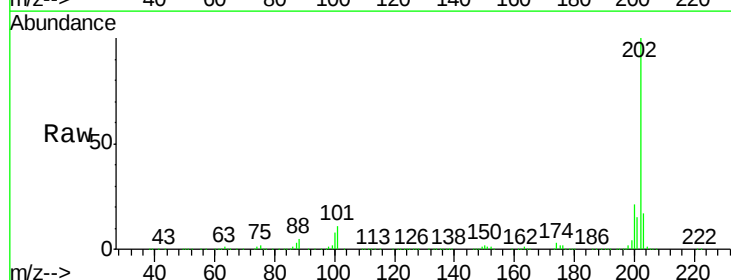
Instrument :
 BNA_F
 ClientSampled :

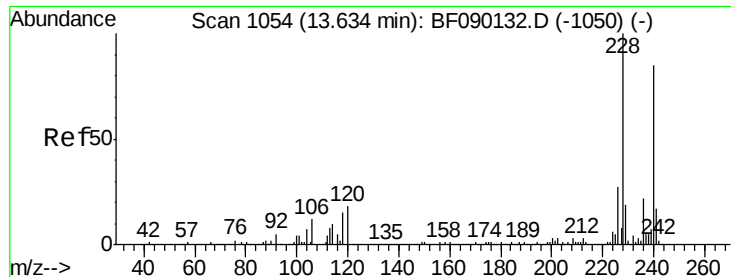
Tot Ion:178 Resp: 53097
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.6
 179 18.1 12.6 19.0



#74
 Fluoranthene
 Concen: 29.74 ng
 RT: 12.21 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Tgt Ion:202 Resp: 619366
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 36.1
 203 17.2 0.0 38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Instrument :

BNA_F

ClientSampleId :

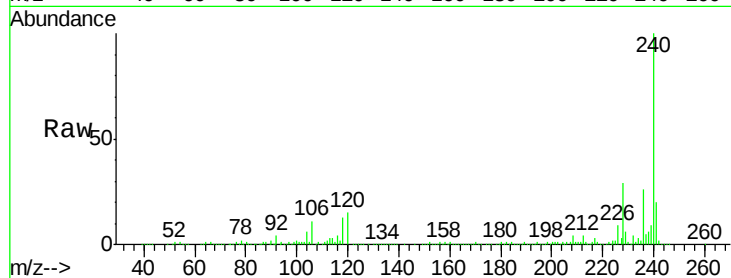
Tot Ion:240 Resp: 257566

Ion Ratio Lower Upper

240 100

120 15.5 10.6 16.0

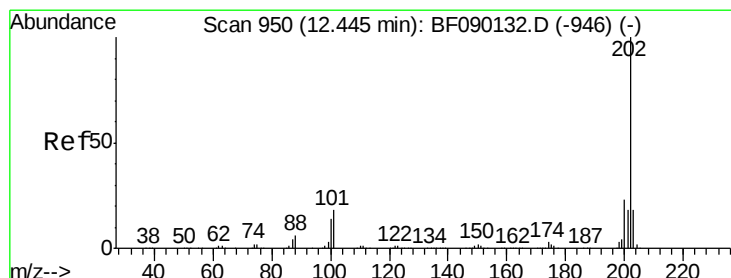
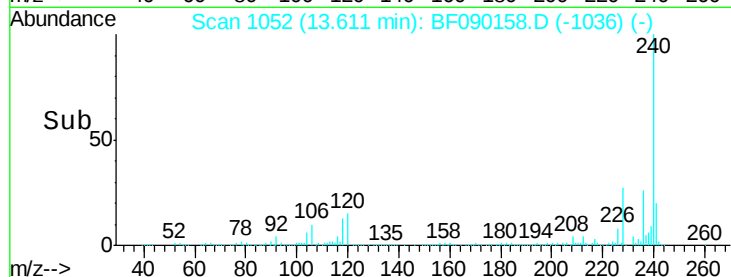
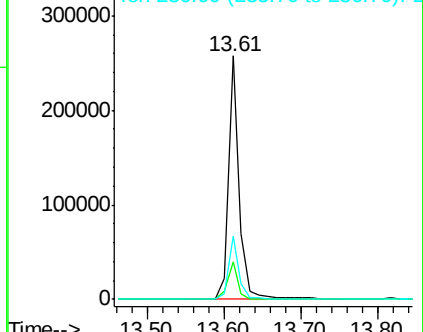
236 26.1 21.6 32.4



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: 29.77 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

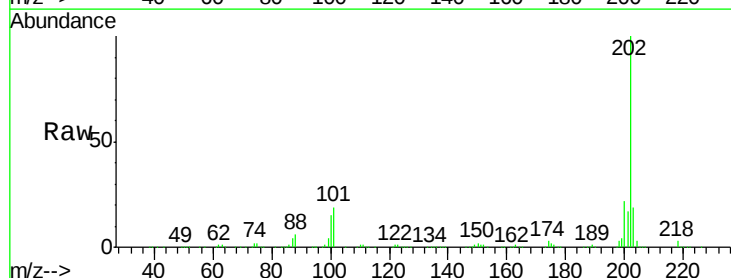
Tgt Ion:202 Resp: 524759

Ion Ratio Lower Upper

202 100

200 21.5 17.9 26.9

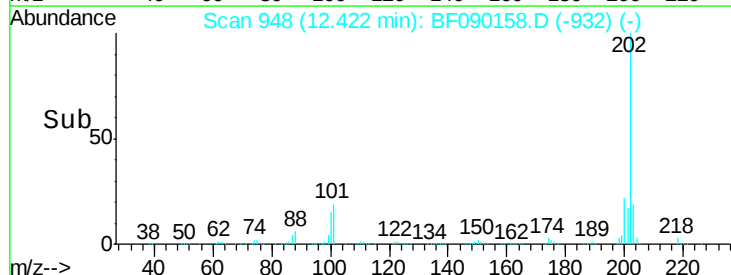
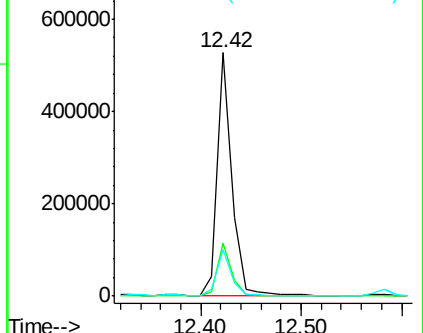
203 19.1 14.2 21.4

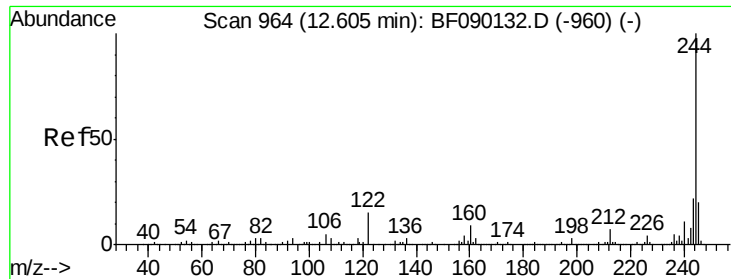


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

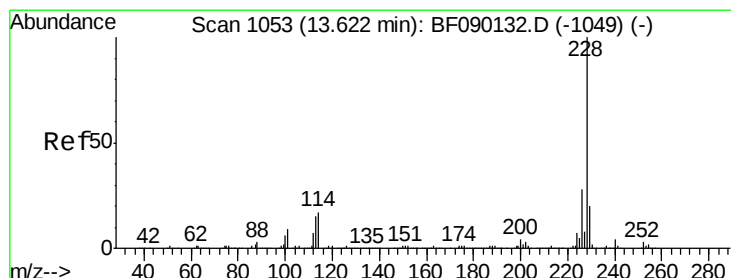
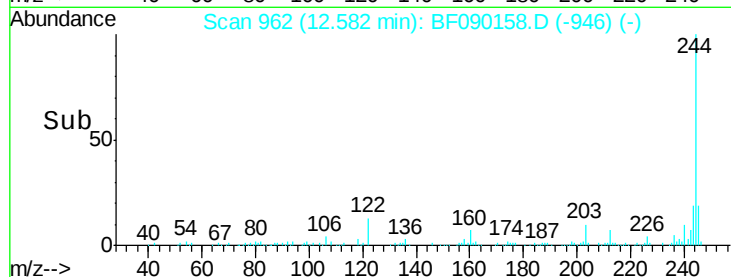
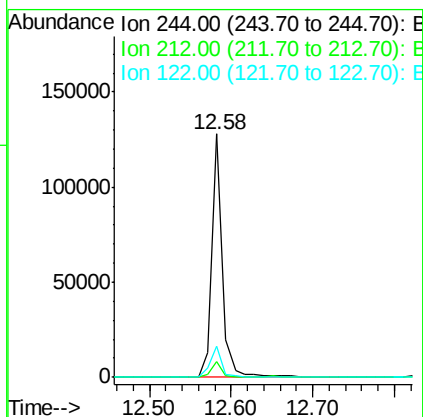
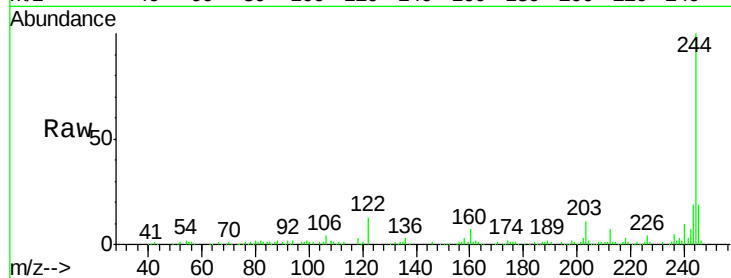




#78
 Terphenyl-d14
 Concen: 11.70 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

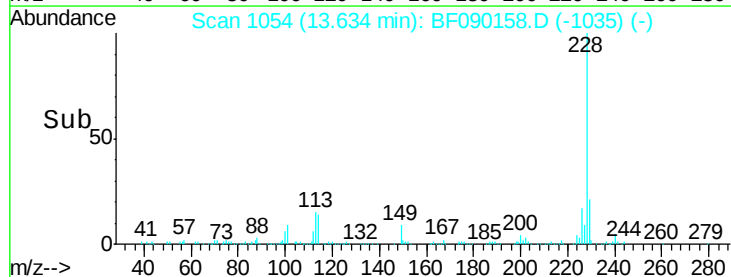
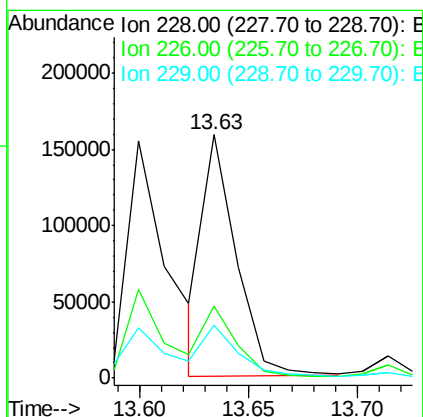
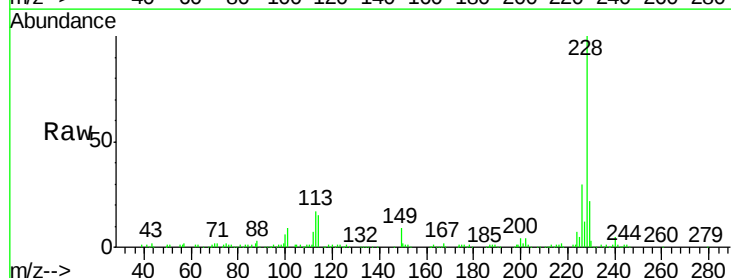
Instrument :
 BNA_F
 ClientSampleId :

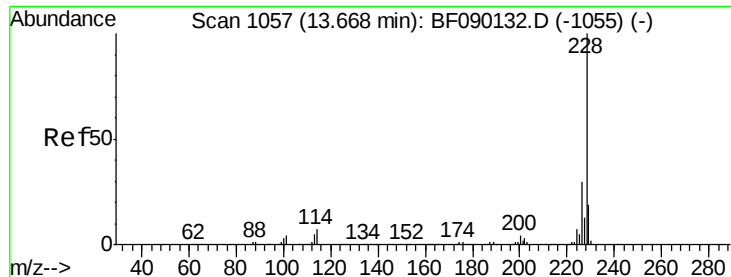
Tot Ion:244 Resp: 118717
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.8 8.8
 122 12.8 9.4 14.0



#80
 Benzo(a)anthracene
 Concen: 12.24 ng
 RT: 13.63 min Scan# 1054
 Delta R.T. 0.01 min
 Lab File: BF090158.D
 Acq: 21 Sep 2016 14:02

Tgt Ion:228 Resp: 169674
 Ion Ratio Lower Upper
 228 100
 226 29.8 22.0 33.0
 229 21.7 16.2 24.2





#82

Chrysene

Concen: 12.77 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.03 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

Instrument :

BNA_F

ClientSampleId :

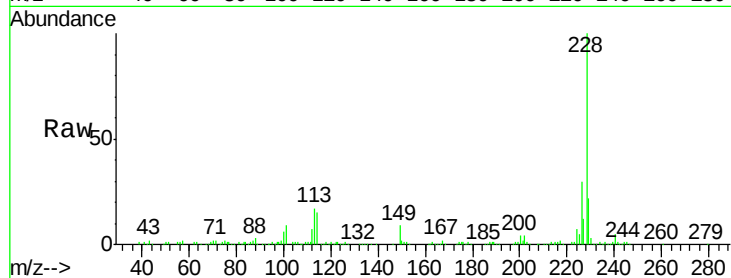
Tot Ion:228 Resp: 172354

Ion Ratio Lower Upper

228 100

226 29.8 24.6 37.0

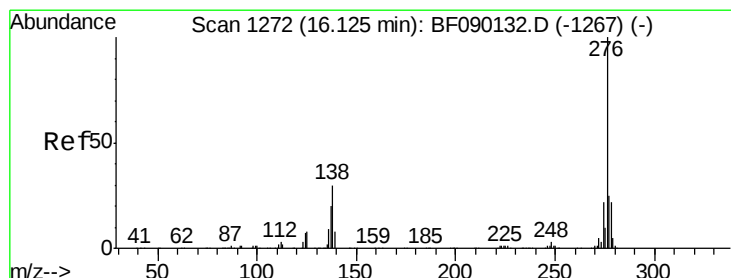
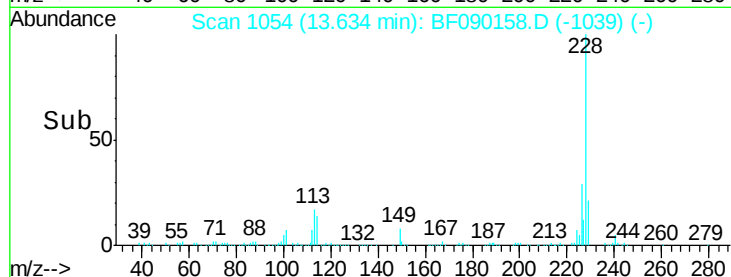
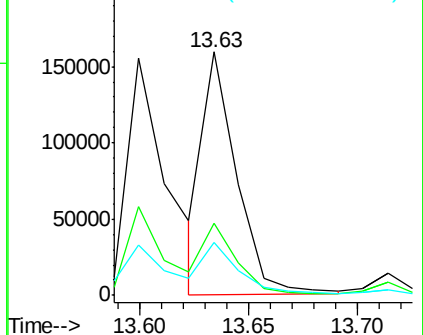
229 21.7 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.60 ng

RT: 16.09 min Scan# 1269

Delta R.T. -0.03 min

Lab File: BF090158.D

Acq: 21 Sep 2016 14:02

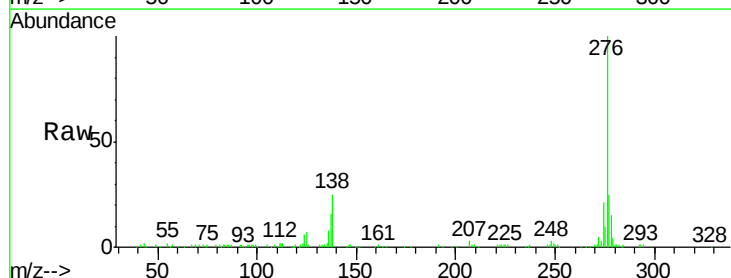
Tgt Ion:276 Resp: 170270

Ion Ratio Lower Upper

276 100

138 27.4 25.9 38.9

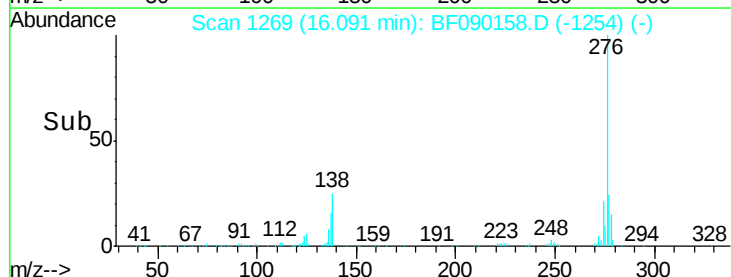
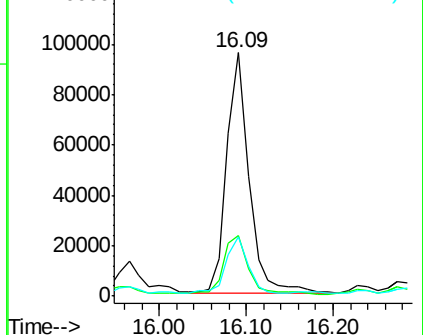
277 24.1 19.9 29.9

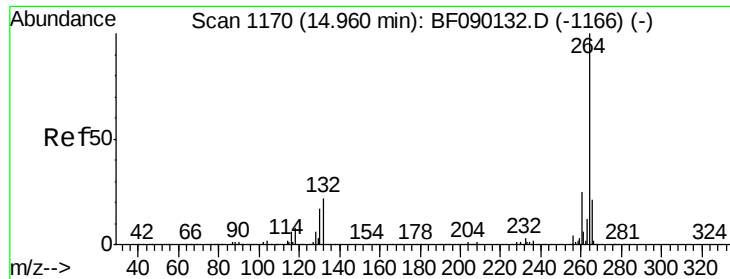


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

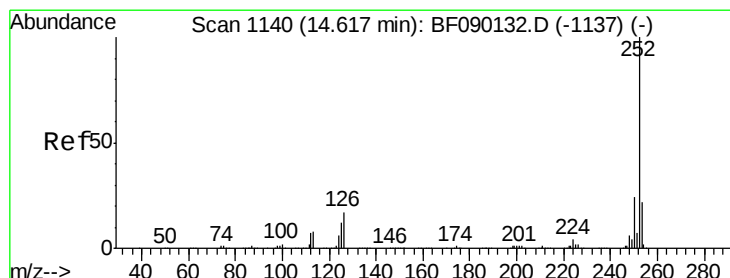
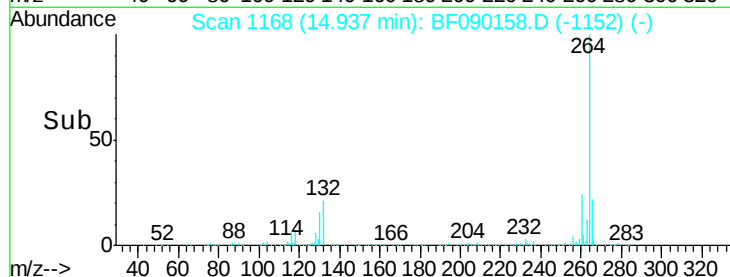
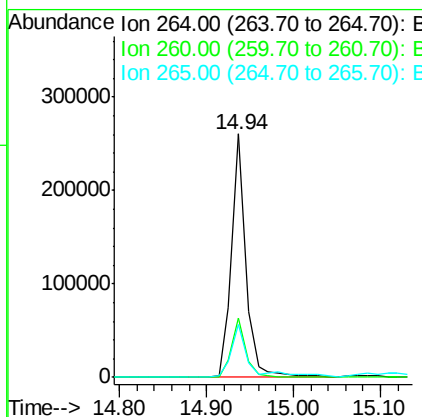
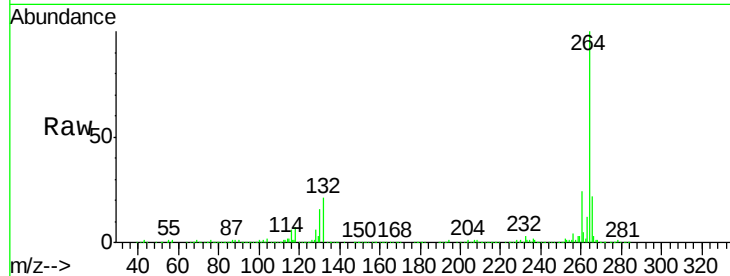




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.94 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

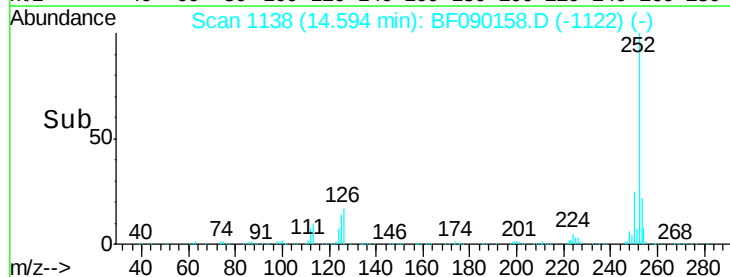
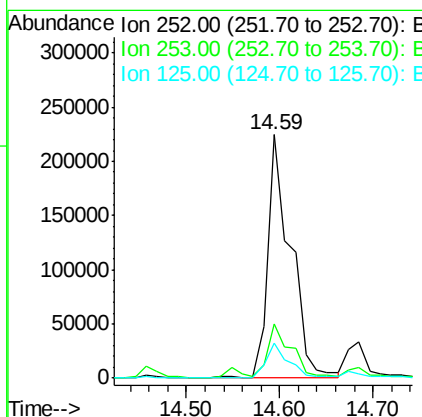
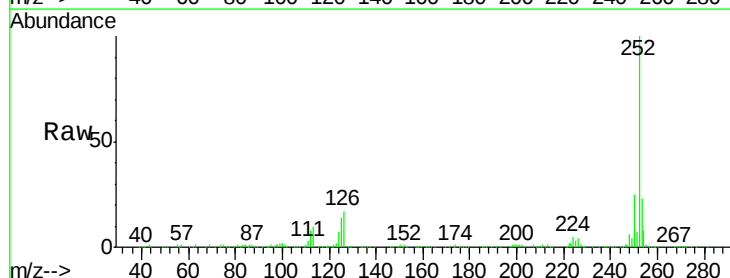
Instrument :
BNA_F
ClientSampleId :

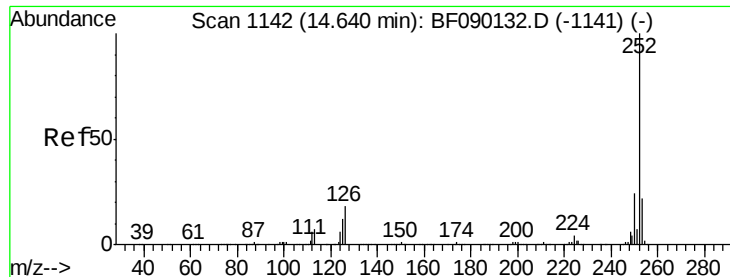
Tot Ion:264 Resp: 301465
Ion Ratio Lower Upper
264 100
260 24.4 19.5 29.3
265 21.6 17.0 25.4



#87
Benzo(b)fluoranthene
Concen: 22.78 ng
RT: 14.59 min Scan# 1138
Delta R.T. -0.02 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Tgt Ion:252 Resp: 380252
Ion Ratio Lower Upper
252 100
253 22.5 17.9 26.9
125 14.4 12.7 19.1

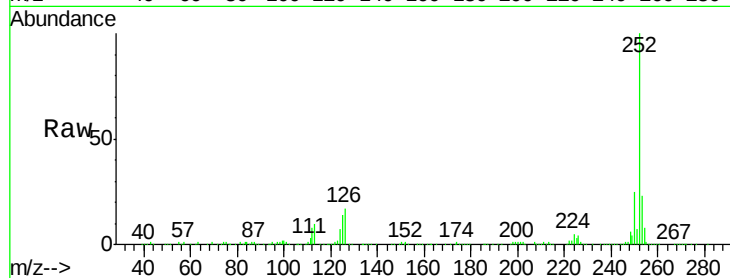




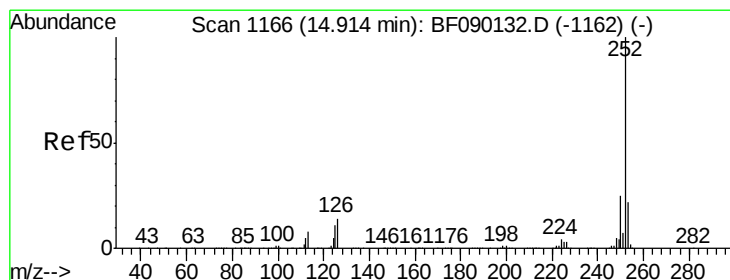
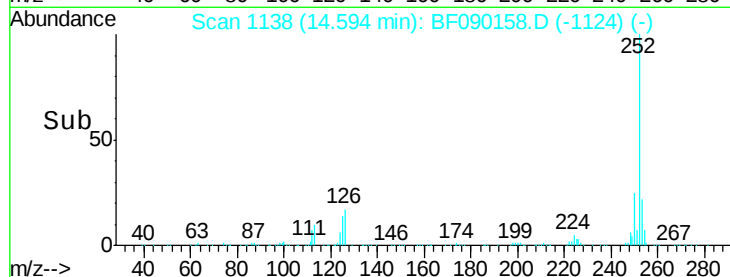
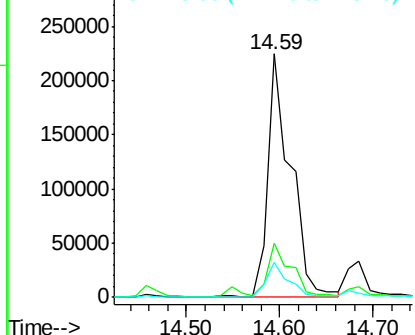
#88
Benzo(k)fluoranthene
Concen: 24.27 ng
RT: 14.59 min Scan# 1138
Delta R.T. -0.05 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	14.4	7.8	11.6

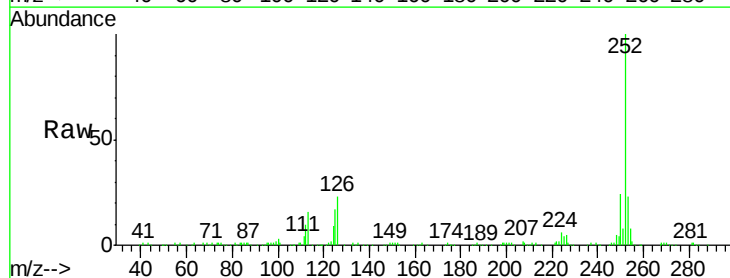


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

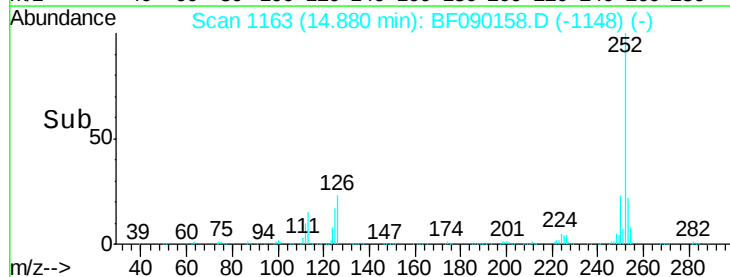
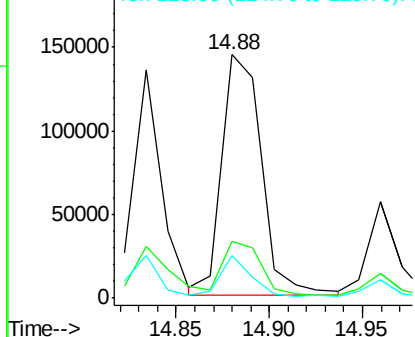


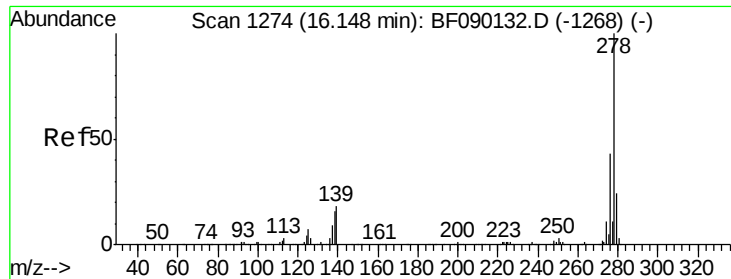
#89
Benzo(a)pyrene
Concen: 13.60 ng
RT: 14.88 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.4	26.0
125	17.3	7.7	11.5



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

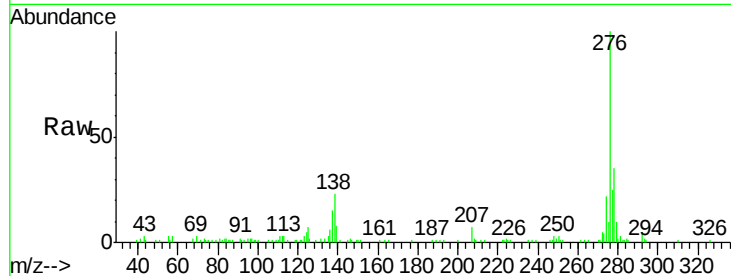




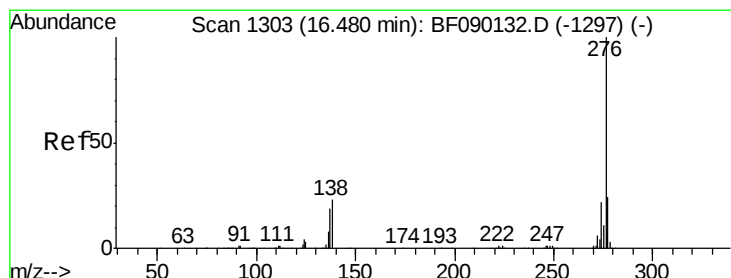
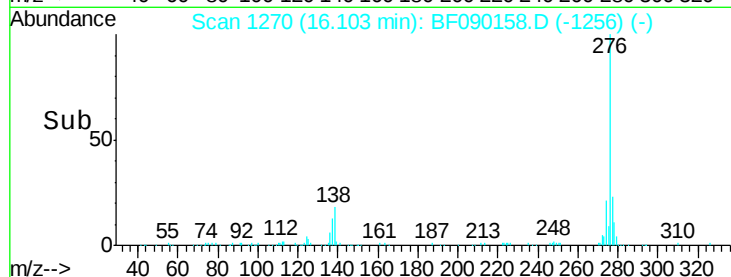
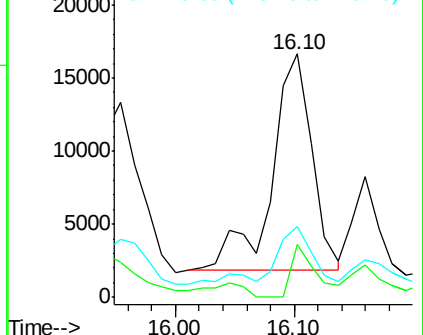
#90
Dibenzo(a,h)anthracene
Concen: 2.85 ng
RT: 16.10 min Scan# 1270
Delta R.T. -0.05 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 34966
Ion Ratio Lower Upper
278 100
139 22.0 14.6 21.8#
279 29.0 18.8 28.2#

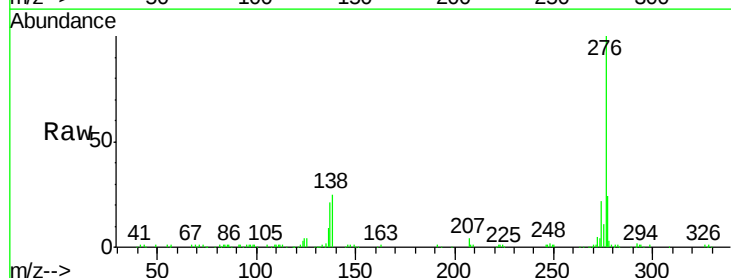


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 14.26 ng
RT: 16.43 min Scan# 1299
Delta R.T. -0.05 min
Lab File: BF090158.D
Acq: 21 Sep 2016 14:02

Tgt Ion:276 Resp: 171036
Ion Ratio Lower Upper
276 100
277 24.2 18.9 28.3
138 25.0 23.3 34.9



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

