

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071716\
 Data File : BF089078.D
 Acq On : 17 Jul 2016 15:12
 Operator : UM/SJ
 Sample : H4046-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C5-6

Quant Time: Jul 18 03:45:49 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

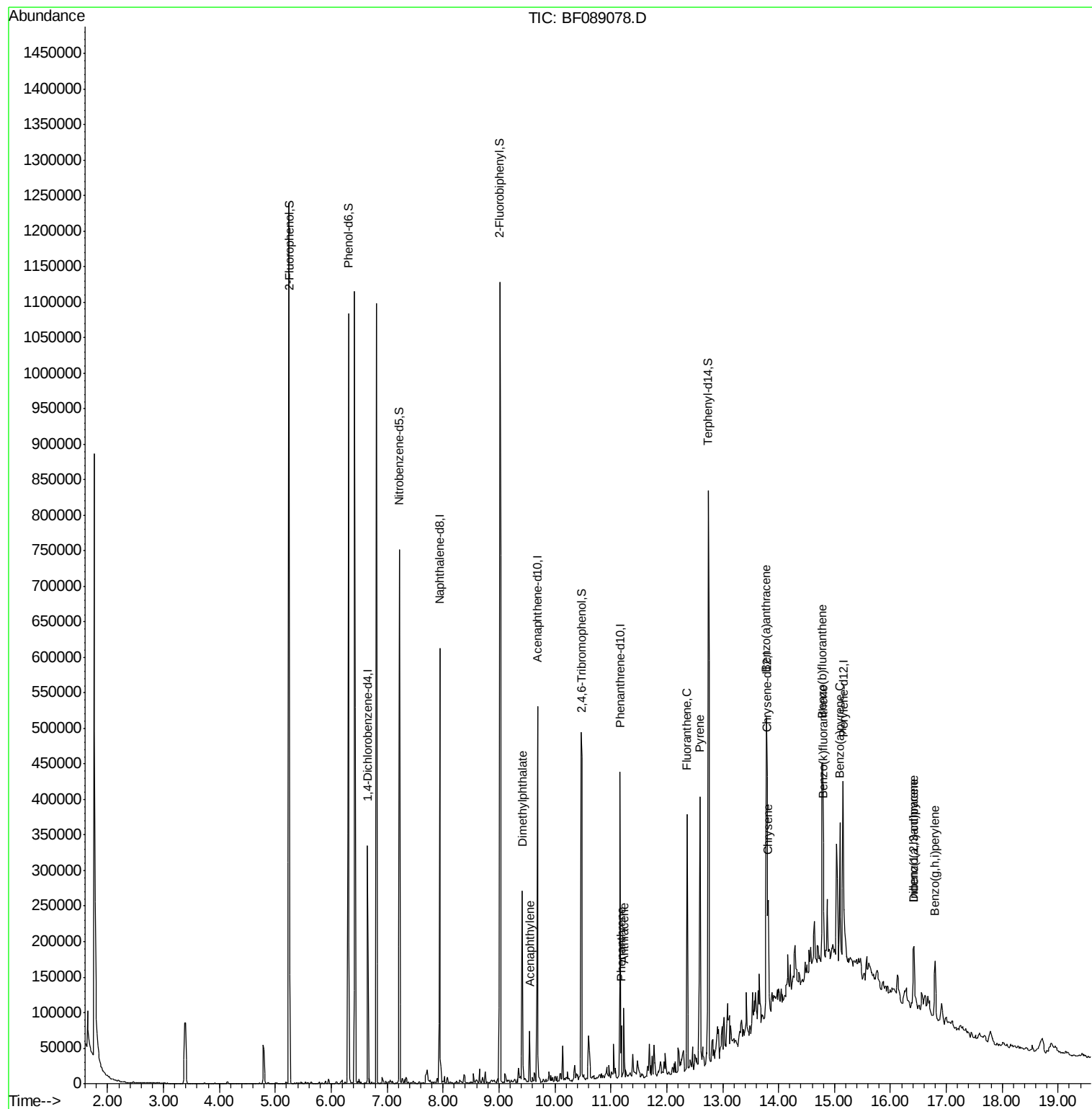
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	57044	20.00	ng	-0.06
21) Naphthalene-d8	7.94	136	236572	20.00	ng	-0.06
38) Acenaphthene-d10	9.69	164	98485	20.00	ng	-0.06
63) Phenanthrene-d10	11.16	188	153456	20.00	ng	-0.06
75) Chrysene-d12	13.79	240	114971	20.00	ng	-0.06
86) Perylene-d12	15.15	264	100095	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	327098	85.94	ng	-0.05
7) Phenol-d6	6.31	99	401190	81.57	ng	-0.05
23) Nitrobenzene-d5	7.22	82	255337	56.56	ng	-0.06
41) 2,4,6-Tribromophenol	10.48	330	71129	77.78	ng	-0.06
44) 2-Fluorobiphenyl	9.02	172	465784	74.71	ng	-0.06
78) Terphenyl-d14	12.74	244	301240	58.36	ng	-0.06
Target Compounds						Qvalue
48) Acenaphthylene	9.55	152	42101	4.13	ng	99
49) Dimethylphthalate	9.42	163	91172	12.99	ng	99
70) Phenanthrene	11.19	178	27667	3.30	ng	99
71) Anthracene	11.23	178	36038	4.32	ng	99
74) Fluoranthene	12.37	202	124942	14.69	ng	99
77) Pyrene	12.59	202	141896	14.56	ng	98
80) Benzo(a)anthracene	13.78	228	91226	12.32	ng	# 87
82) Chrysene	13.82	228	80630m	11.01	ng	
85) Indeno(1,2,3-cd)pyrene	16.42	276	51980	9.22	ng	# 100
87) Benzo(b)fluoranthene	14.79	252	177608m	28.29	ng	
88) Benzo(k)fluoranthene	14.80	252	24416m	4.47	ng	
89) Benzo(a)pyrene	15.10	252	73728	13.87	ng	96
90) Dibenzo(a,h)anthracene	16.42	278	12344m	2.78	ng	
91) Benzo(g,h,i)perylene	16.80	276	51450	11.20	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 443

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

C5-6

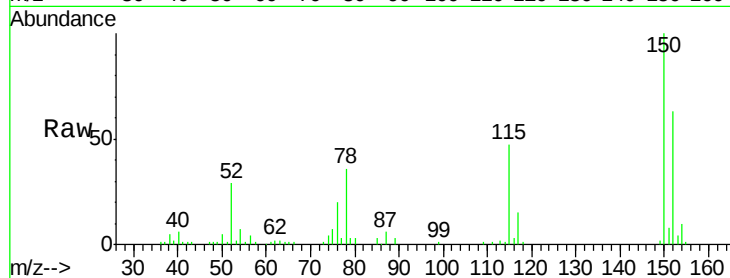
Tot Ion:152 Resp: 57044

Ion Ratio Lower Upper

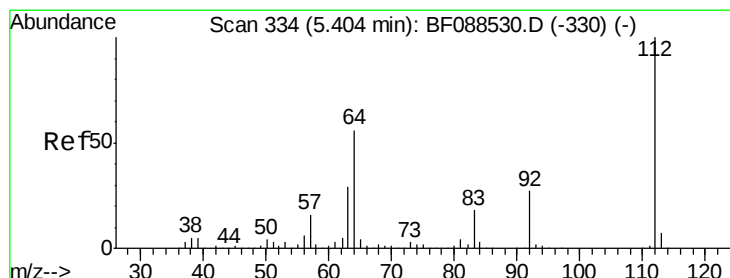
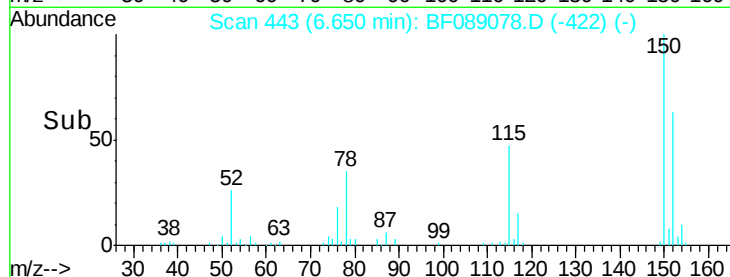
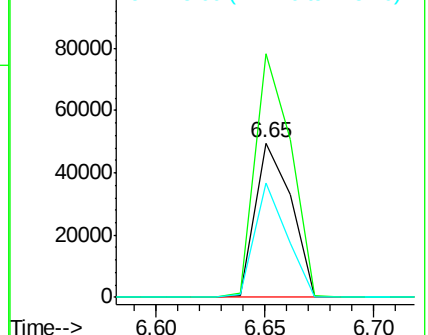
152 100

150 157.9 123.8 185.6

115 74.1 39.6 59.4#



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: 85.94 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.05 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

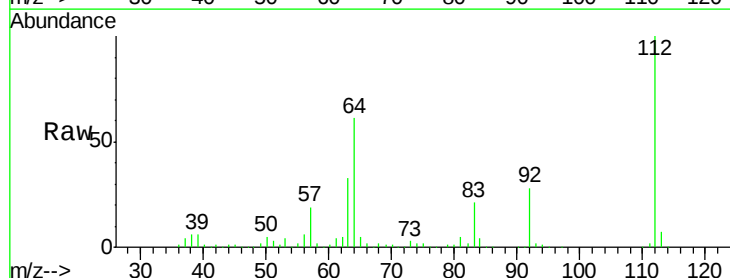
Tgt Ion:112 Resp: 327098

Ion Ratio Lower Upper

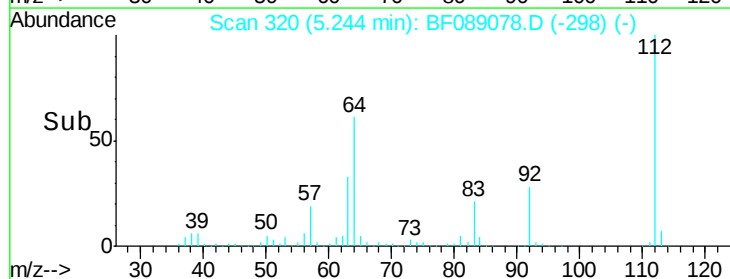
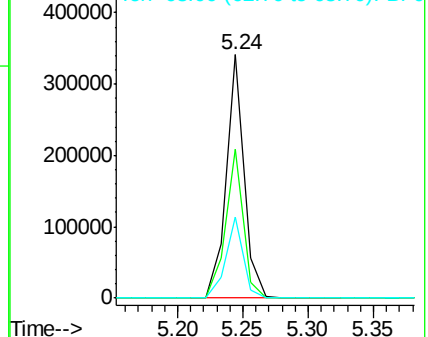
112 100

64 61.1 42.2 63.2

63 33.2 21.8 32.8#



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: 81.57 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampled :

C5-6

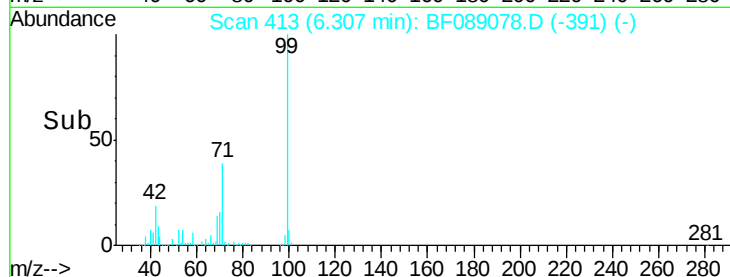
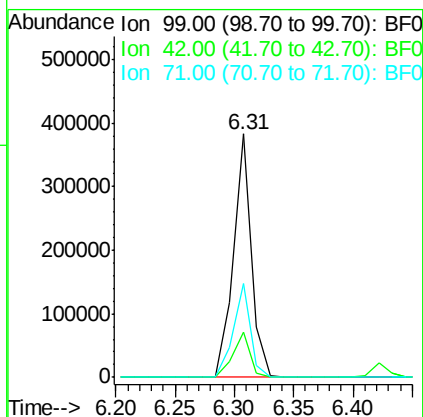
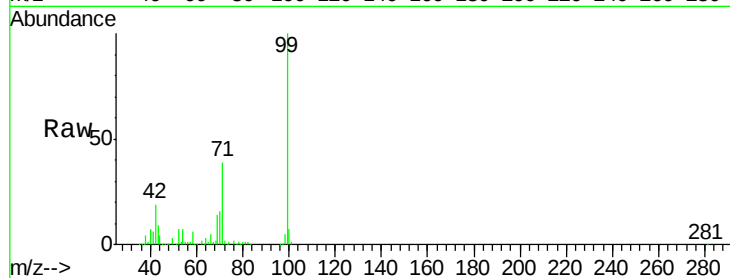
Tot Ion: 99 Resp: 401190

Ion Ratio Lower Upper

99 100

42 18.6 12.2 18.2#

71 38.7 23.4 35.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 556

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Tgt Ion: 136 Resp: 236572

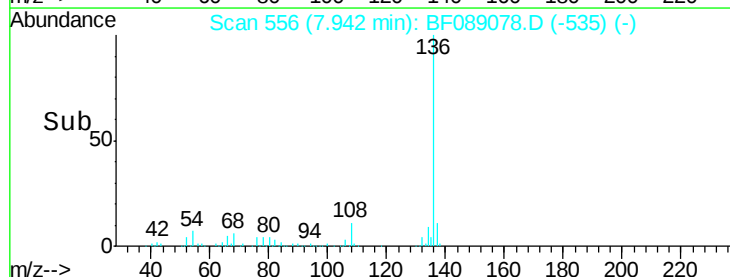
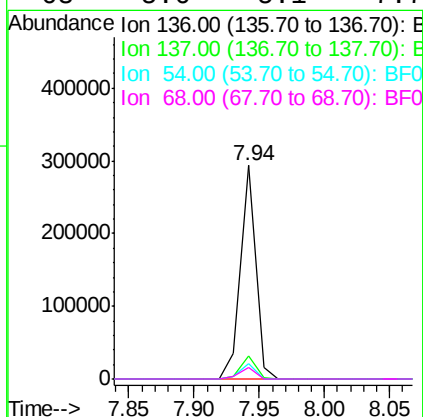
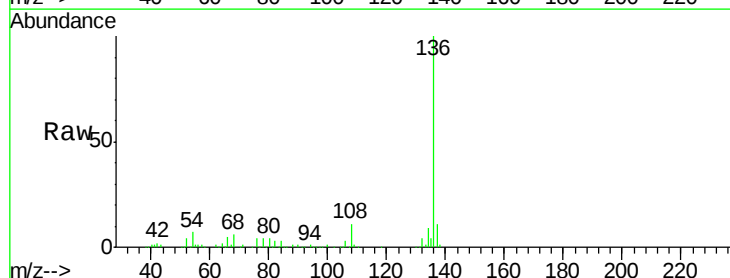
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 7.2 6.6 10.0

68 5.6 5.1 7.7

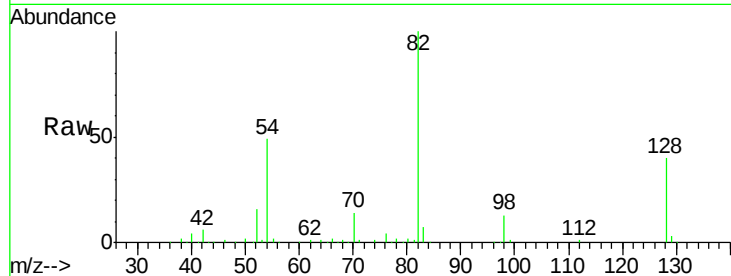




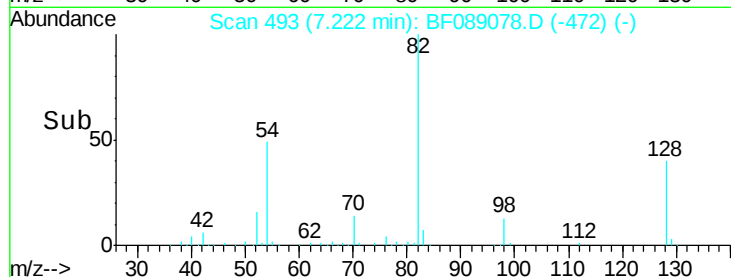
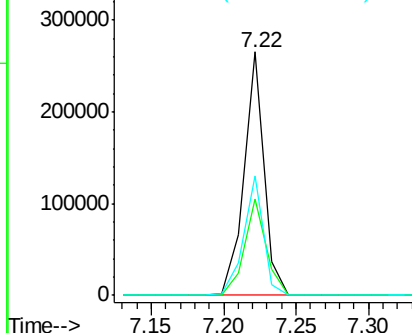
#23
 Nitrobenzene-d5
 Concen: 56.56 ng
 RT: 7.22 min Scan# 493
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampleID :
 C5-6

Tot Ion	82	Resp	255337
Ion Ratio	Lower	Upper	
82	100		
128	39.7	35.9	53.9
54	49.3	40.9	61.3

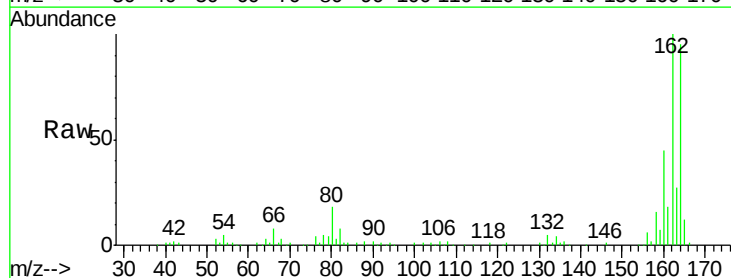


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

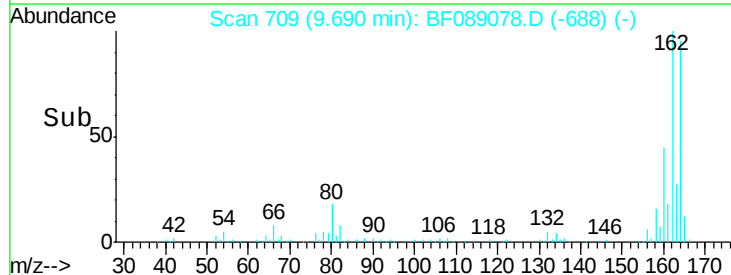
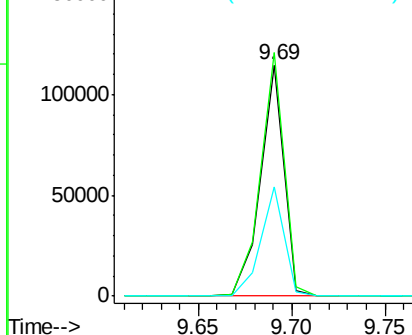


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.69 min Scan# 709
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion	164	Resp	98485
Ion Ratio	Lower	Upper	
164	100		
162	105.2	85.4	128.2
160	46.9	39.5	59.3



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

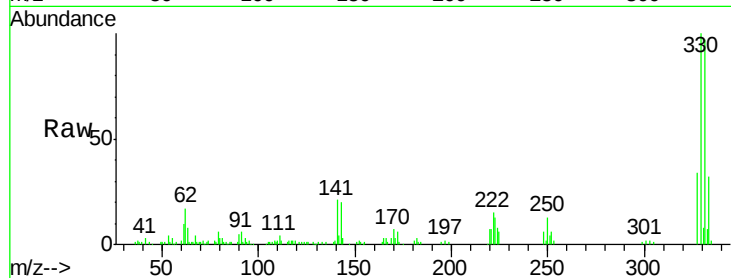




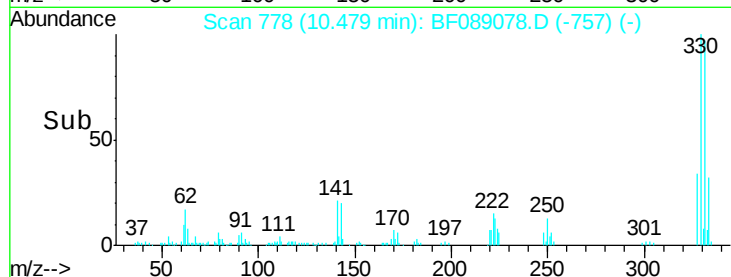
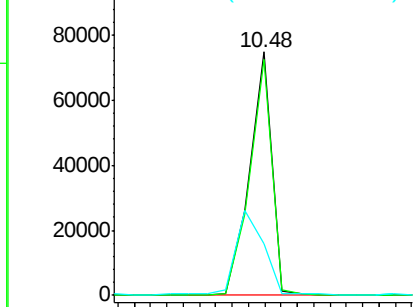
#41
 2,4,6-Tribromophenol
 Concen: 77.78 ng
 RT: 10.48 min Scan# 778
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampled :
 C5-6

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	44.5	0.0	0.0#

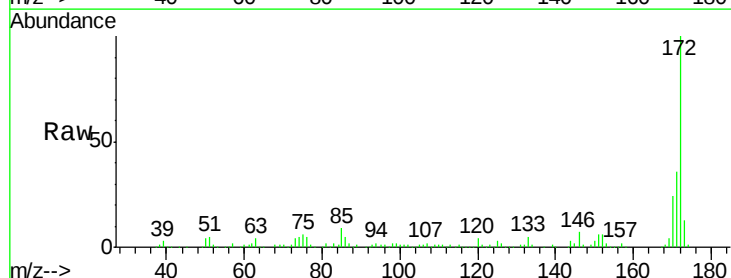


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

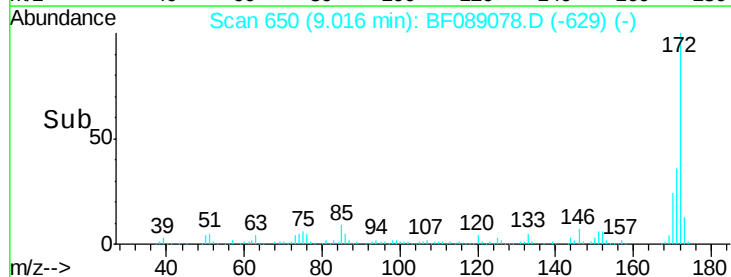
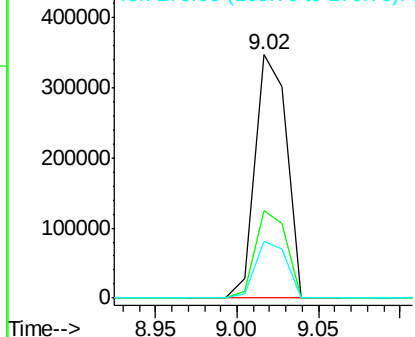


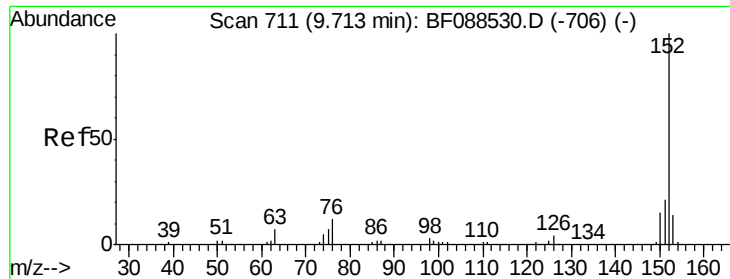
#44
 2-Fluorobiphenyl
 Concen: 74.71 ng
 RT: 9.02 min Scan# 650
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.5	19.2	28.8



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: 4.13 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

C5-6

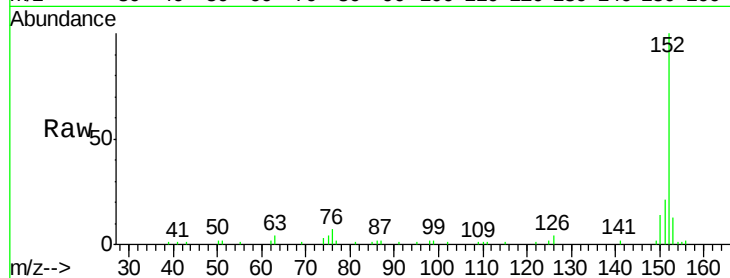
Tot Ion:152 Resp: 42101

Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.4

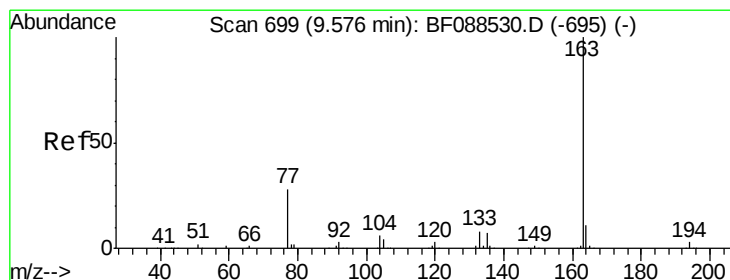
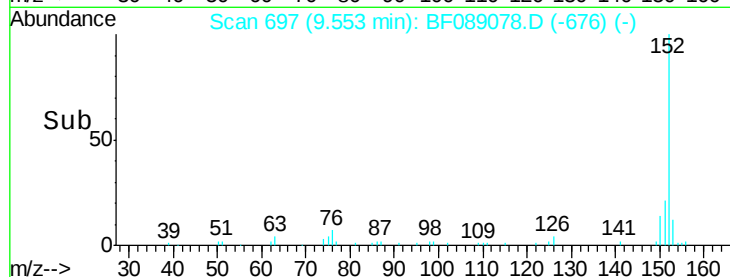
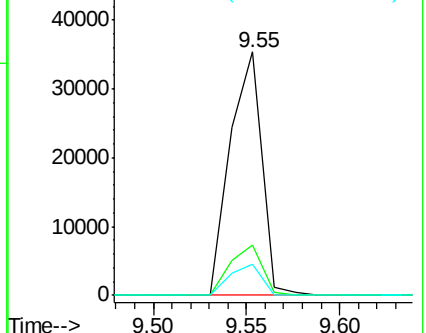
153 13.0 11.0 16.6



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: 12.99 ng

RT: 9.42 min Scan# 685

Delta R.T. -0.07 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

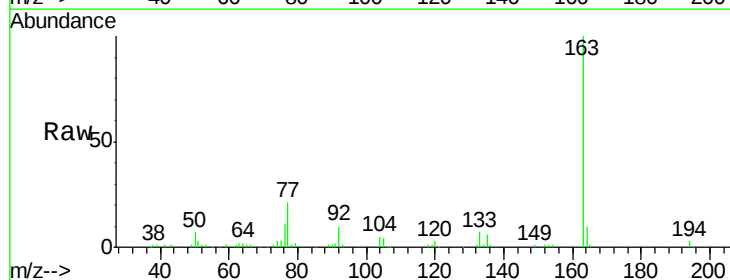
Tgt Ion:163 Resp: 91172

Ion Ratio Lower Upper

163 100

194 3.4 2.8 4.2

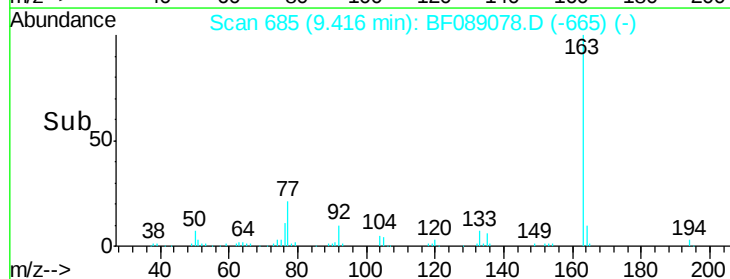
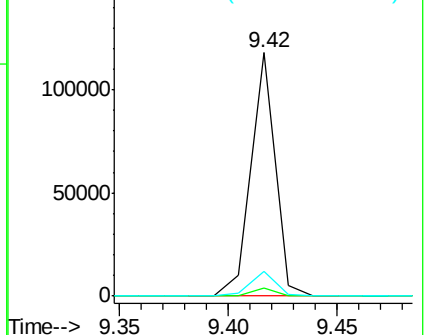
164 9.9 8.3 12.5

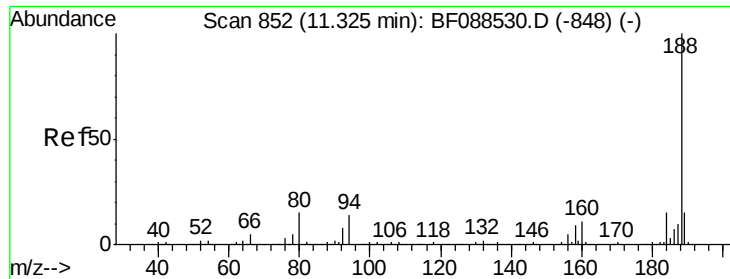


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

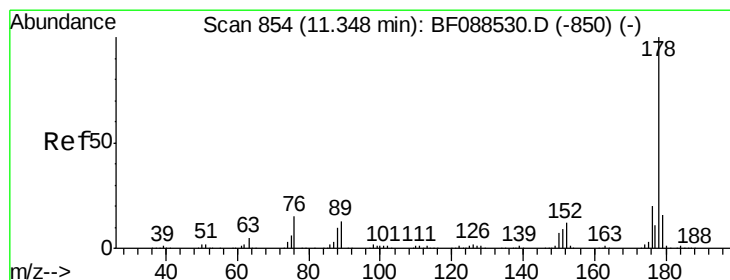
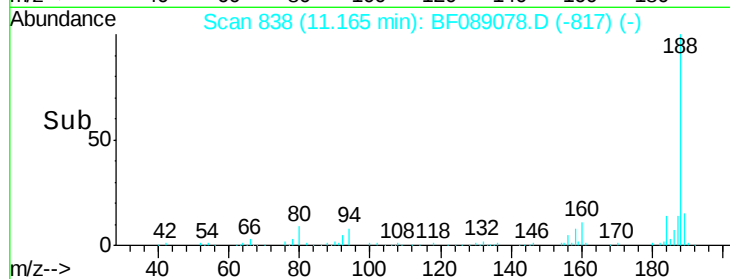
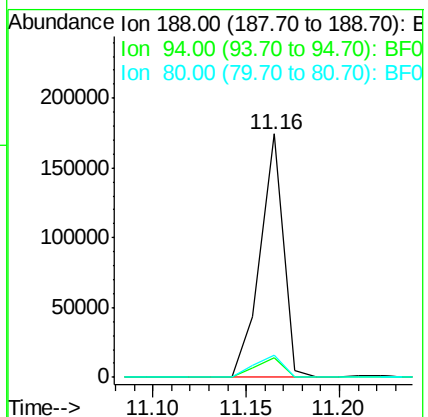
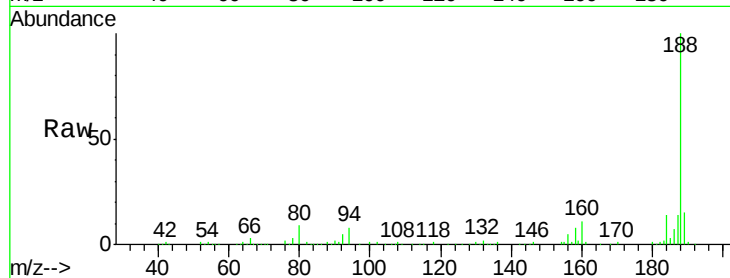




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.06 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

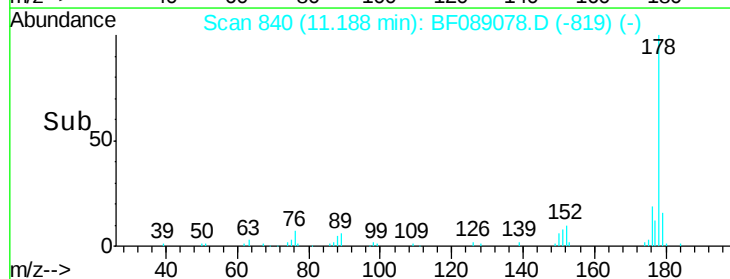
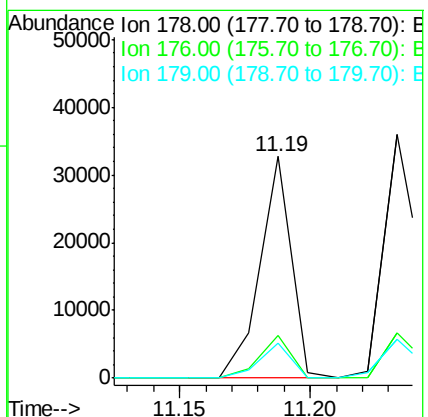
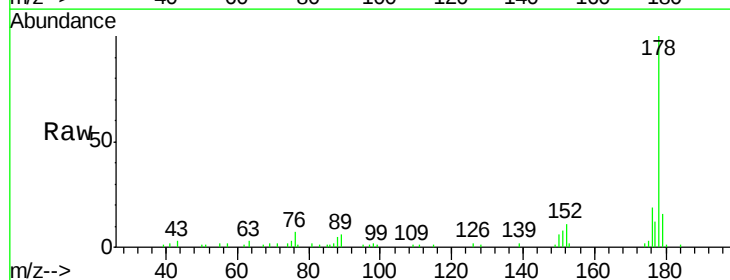
Instrument :
BNA_F
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C5-6

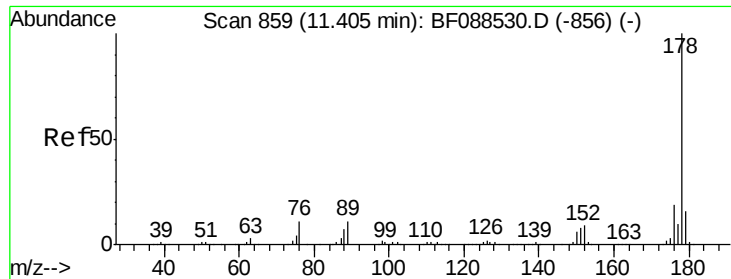
Tot Ion:188 Resp: 153456
Ion Ratio Lower Upper
188 100
94 8.0 9.0 13.6#
80 9.2 10.0 15.0#



#70
Phenanthrene
Concen: 3.30 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.06 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

Tgt Ion:178 Resp: 27667
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 15.7 13.0 19.4

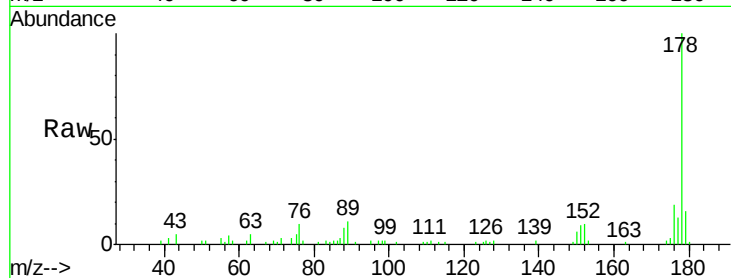




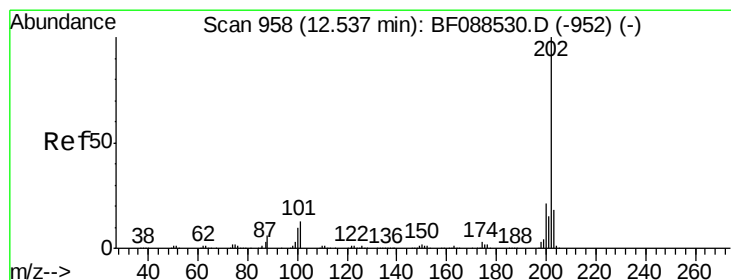
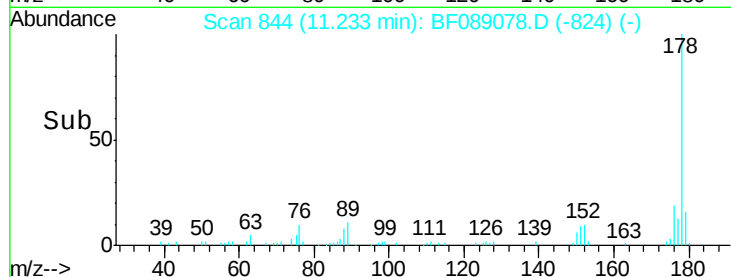
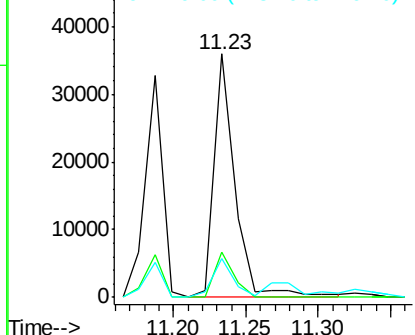
#71
 Anthracene
 Concen: 4.32 ng
 RT: 11.23 min Scan# 844
 Delta R.T. -0.07 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Instrument :
 BNA_F
 ClientSampleID :
 C5-6

Tot Ion:178 Resp: 36038
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.6 23.4
 179 15.8 12.8 19.2

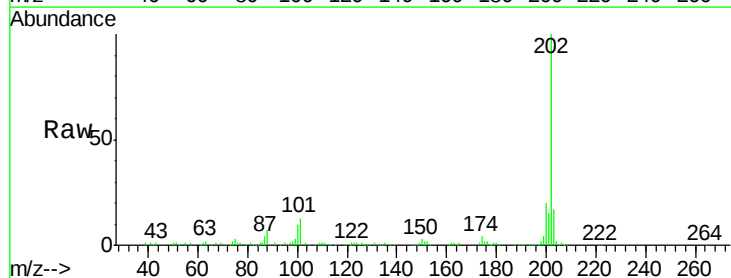


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

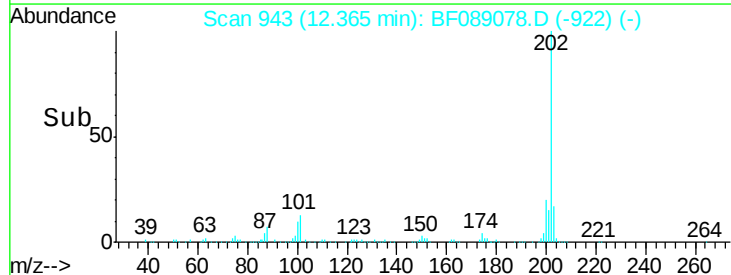
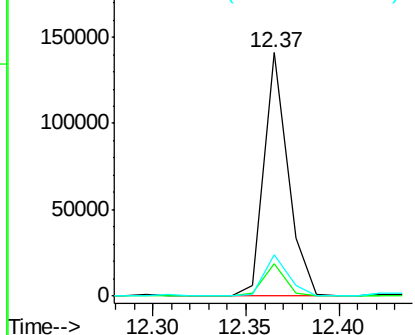


#74
 Fluoranthene
 Concen: 14.69 ng
 RT: 12.37 min Scan# 943
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion:202 Resp: 124942
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 33.1
 203 17.2 0.0 38.1



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: 13.79 min Scan# 1068

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

C5-6

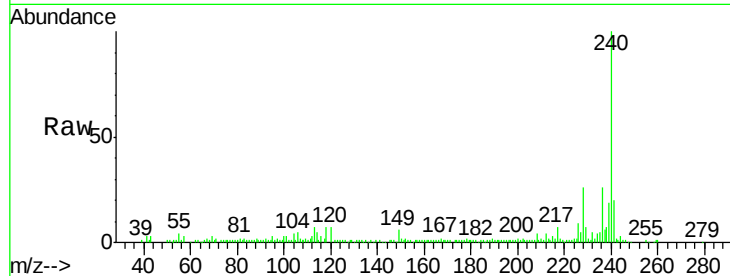
Tot Ion:240 Resp: 114971

Ion Ratio Lower Upper

240 100

120 7.2 6.8 10.2

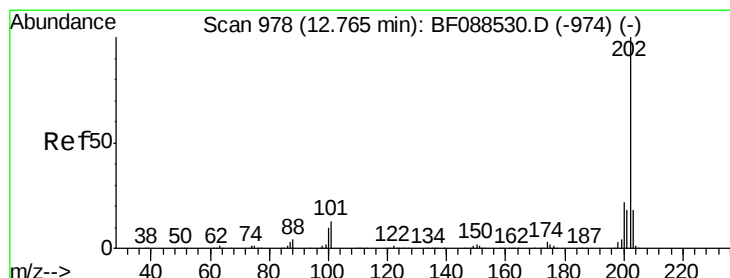
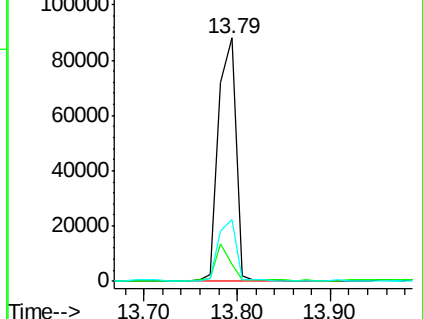
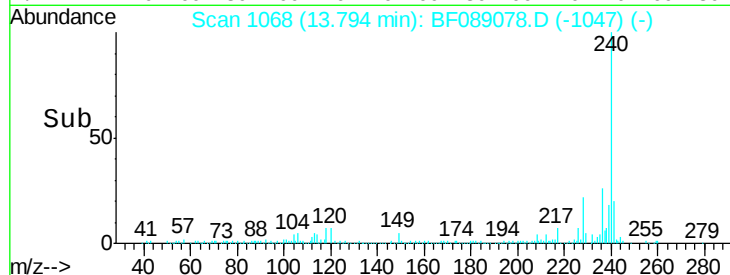
236 25.6 20.2 30.2



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: 14.56 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

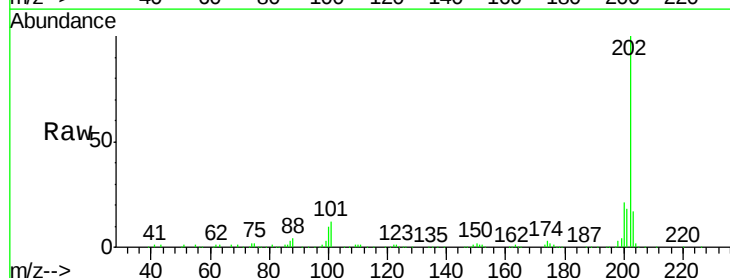
Tgt Ion:202 Resp: 141896

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

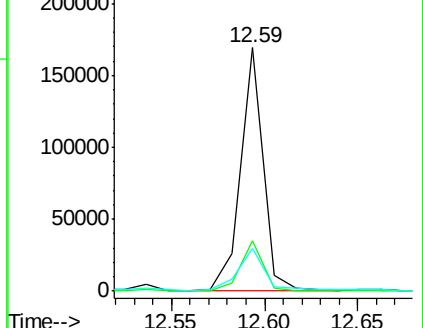
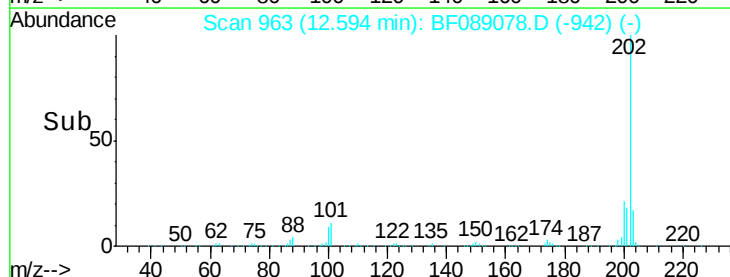
203 17.3 14.5 21.7



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

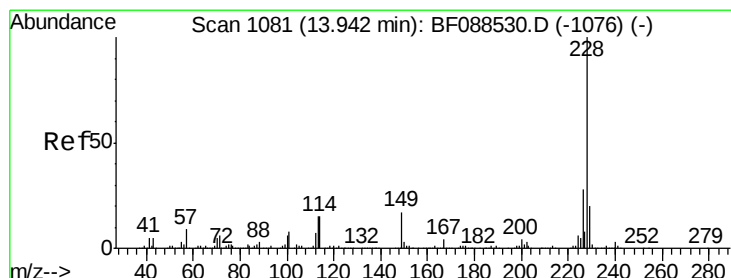
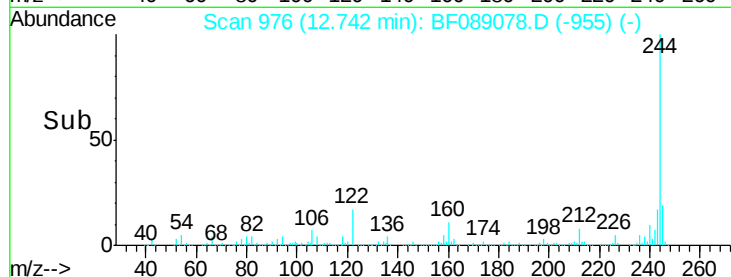
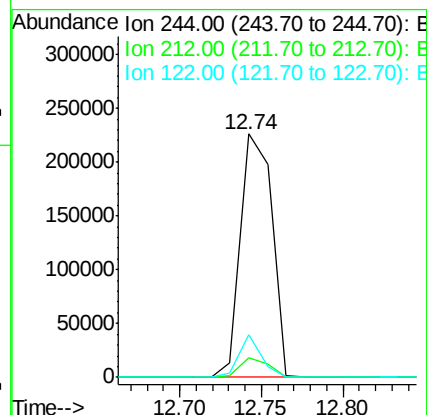
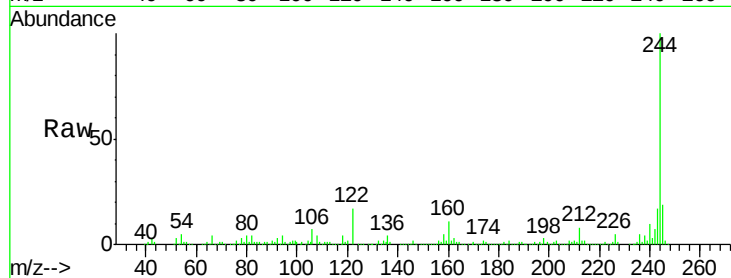




#78
 Terphenyl-d14
 Concen: 58.36 ng
 RT: 12.74 min Scan# 976
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

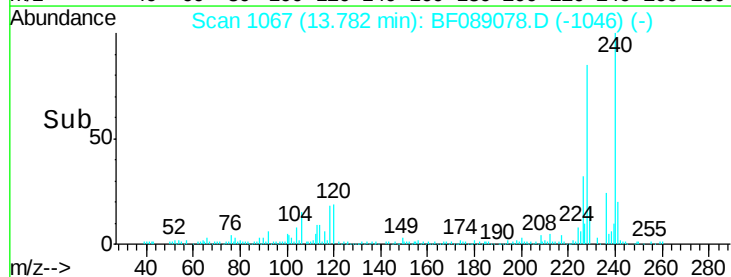
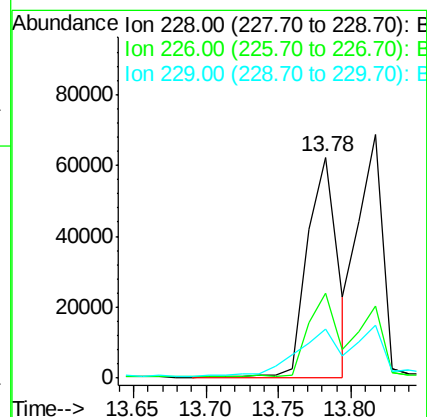
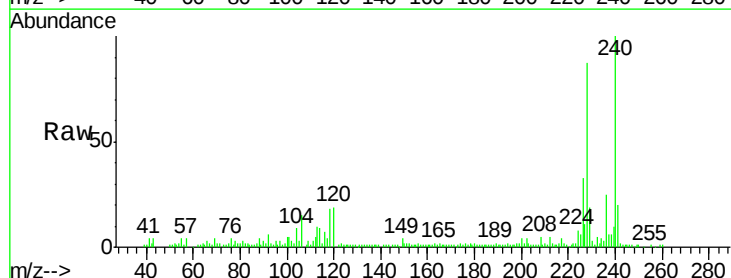
Instrument :
 BNA_F
 ClientSampleId :
 C5-6

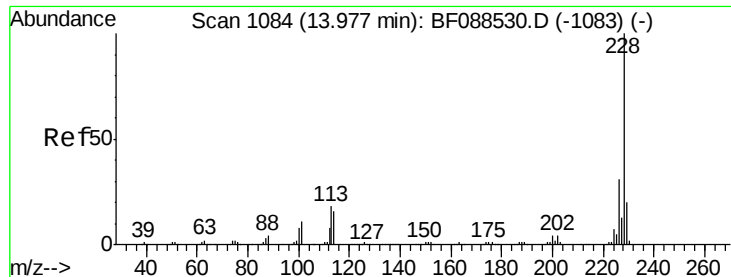
Tot Ion:244 Resp: 301240
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.0 9.0
 122 17.4 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 12.32 ng
 RT: 13.78 min Scan# 1067
 Delta R.T. -0.06 min
 Lab File: BF089078.D
 Acq: 17 Jul 2016 15:12

Tgt Ion:228 Resp: 91226
 Ion Ratio Lower Upper
 228 100
 226 38.4 22.3 33.5#
 229 22.0 16.0 24.0





#82

Chrysene

Concen: 11.01 ng/mL

RT: 13.82 min Scan# 1070

Delta R.T. -0.06 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleId :

C5-6

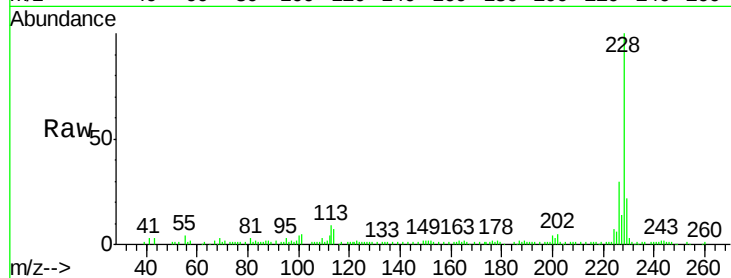
Tot Ion:228 Resp: 80630

Ion Ratio Lower Upper

228 100

226 29.6 25.4 38.2

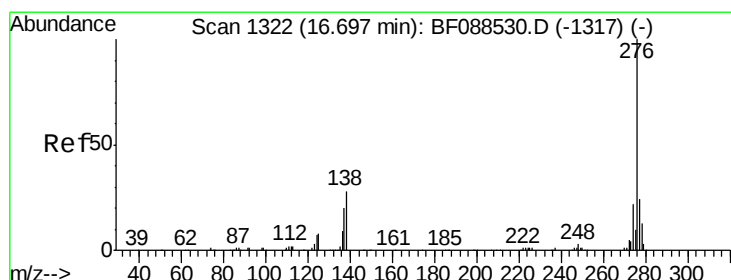
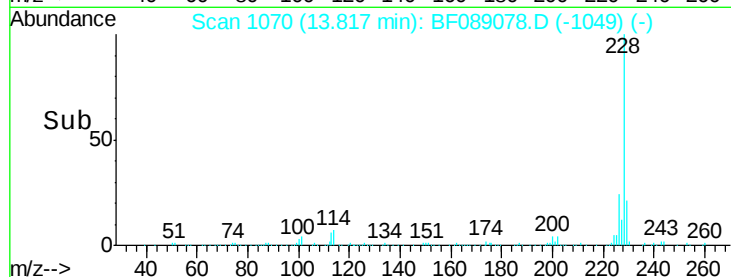
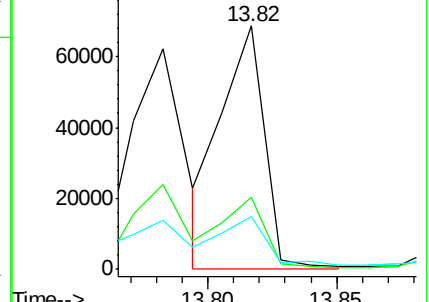
229 21.9 16.3 24.5



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: 9.22 ng/mL

RT: 16.42 min Scan# 1298

Delta R.T. -0.08 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

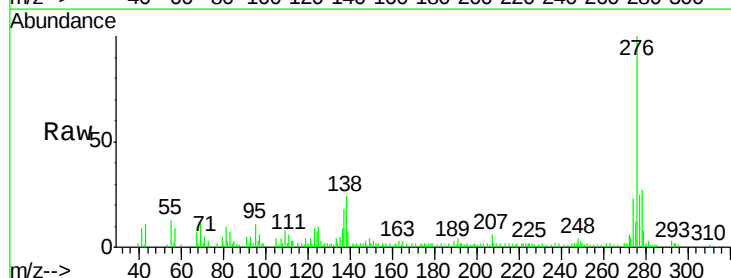
Tgt Ion:276 Resp: 51980

Ion Ratio Lower Upper

276 100

138 25.5 0.0 0.0#

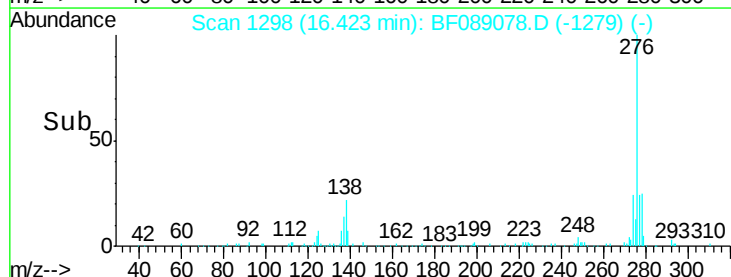
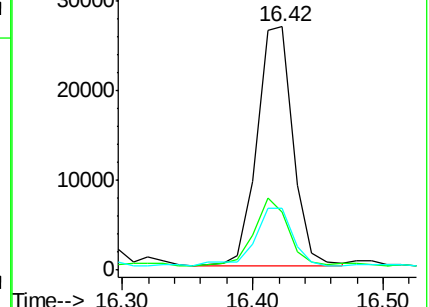
277 27.2 0.0 0.0#

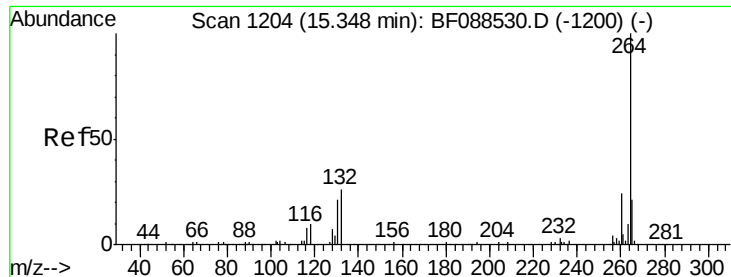


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

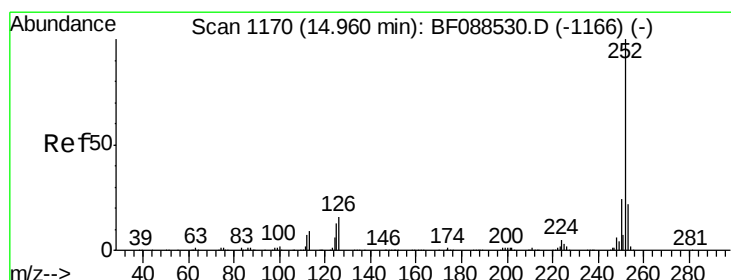
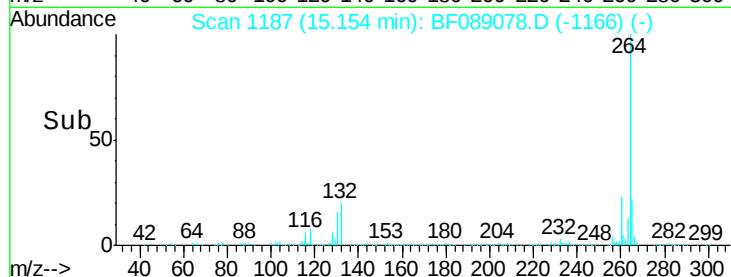
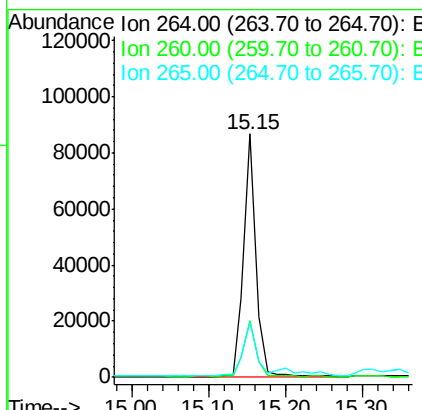
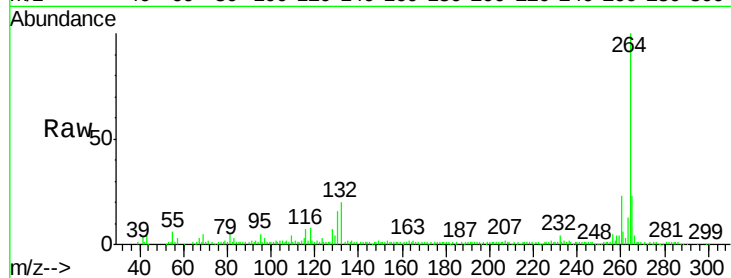




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.06 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

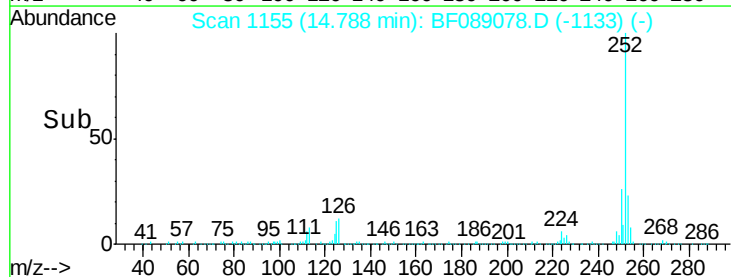
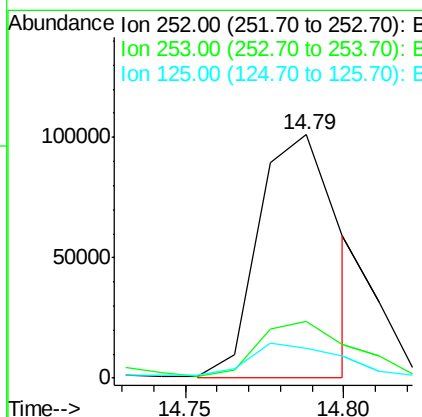
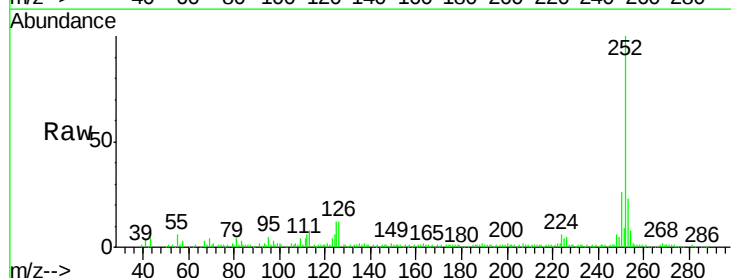
Instrument :
BNA_F
ClientSampled :
C5-6

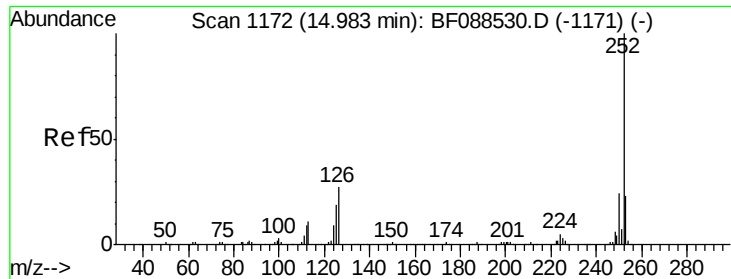
Tot Ion:264 Resp: 100095
Ion Ratio Lower Upper
264 100
260 23.3 19.2 28.8
265 22.8 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 28.29 ng m
RT: 14.79 min Scan# 1155
Delta R.T. -0.05 min
Lab File: BF089078.D
Acq: 17 Jul 2016 15:12

Tgt Ion:252 Resp: 177608
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 12.1 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 4.47 ng/mL

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

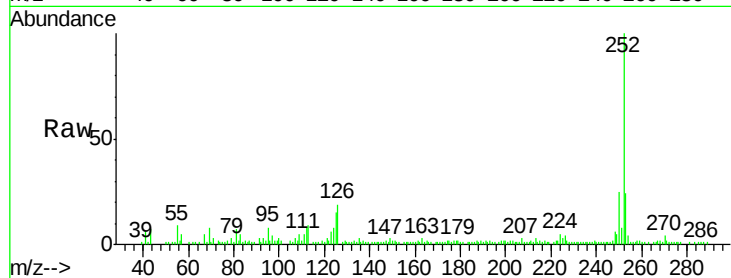
Instrument :

BNA_F

ClientSampled :

C5-6

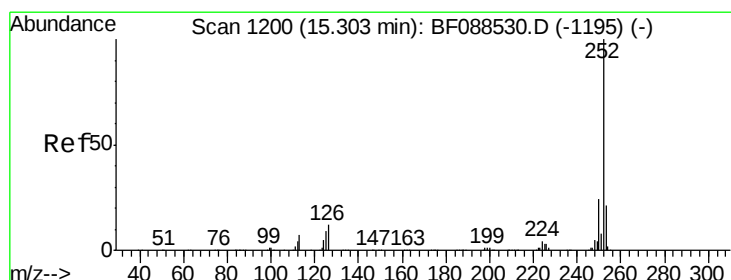
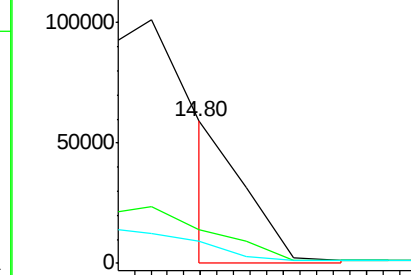
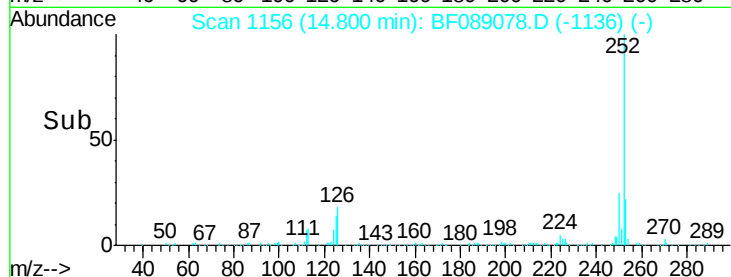
Tot Ion:252	Resp:	24416
Ion Ratio	Lower	Upper
252	100	
253	23.5	18.0 27.0
125	15.5	11.2 16.8



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: 13.87 ng/mL

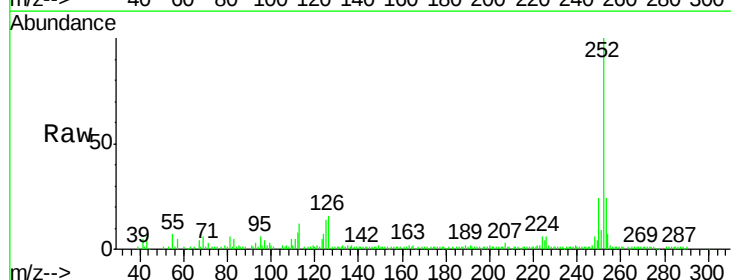
RT: 15.10 min Scan# 1182

Delta R.T. -0.07 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

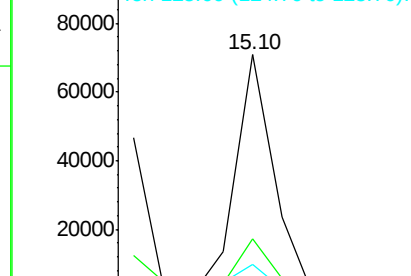
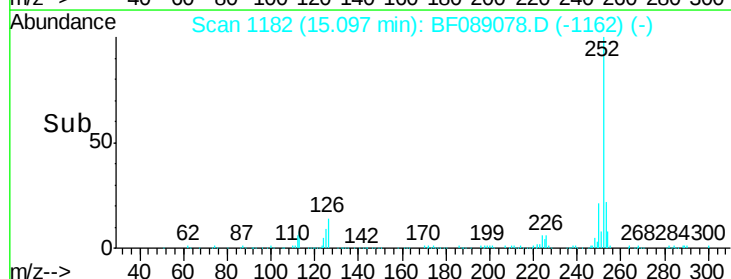
Tgt Ion:252	Resp:	73728
Ion Ratio	Lower	Upper
252	100	
253	24.5	17.9 26.9
125	14.0	12.5 18.7

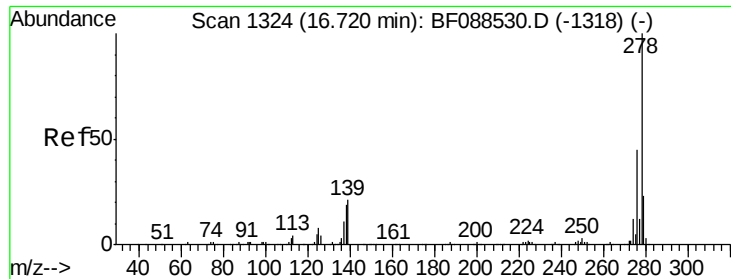


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.78 ng/mL

RT: 16.42 min Scan# 1298

Delta R.T. -0.09 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Instrument :

BNA_F

ClientSampleID :

C5-6

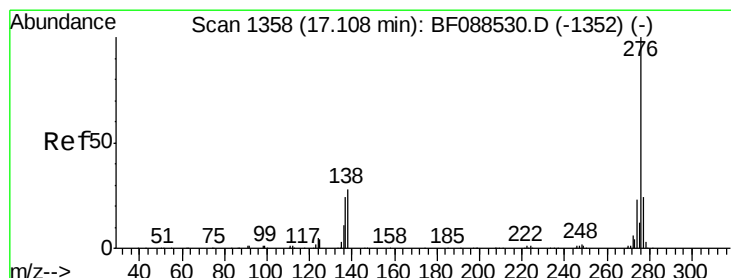
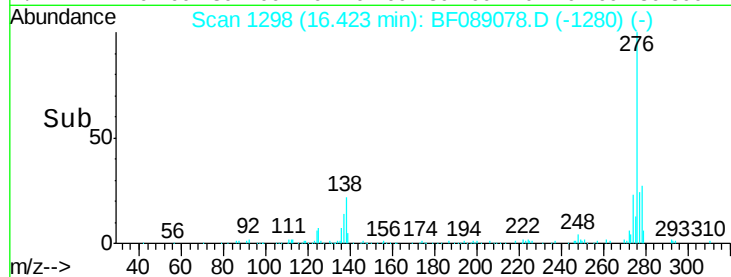
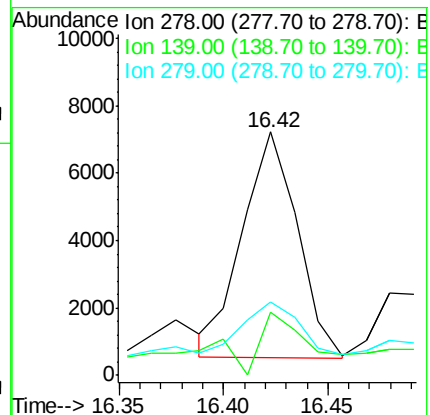
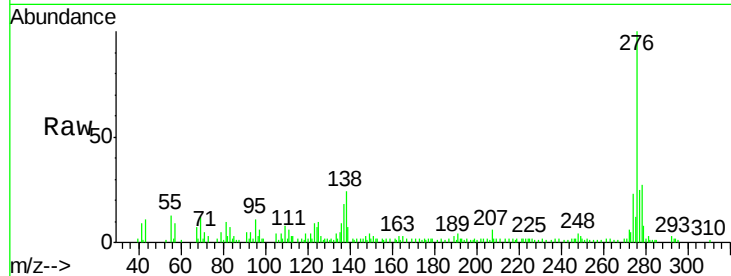
Tot Ion:278 Resp: 12344

Ion Ratio Lower Upper

278 100

139 25.9 15.7 23.5#

279 29.9 19.4 29.2#



#91

Benzo(g,h,i)perylene

Concen: 11.20 ng/mL

RT: 16.80 min Scan# 1331

Delta R.T. -0.09 min

Lab File: BF089078.D

Acq: 17 Jul 2016 15:12

Tgt Ion:276 Resp: 51450

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 24.0 21.4 32.2

