

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092116\
 Data File : BF090177.D
 Acq On : 21 Sep 2016 23:37
 Operator : UM/SJ
 Sample : H4856-14 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

Quant Time: Sep 22 01:57:10 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

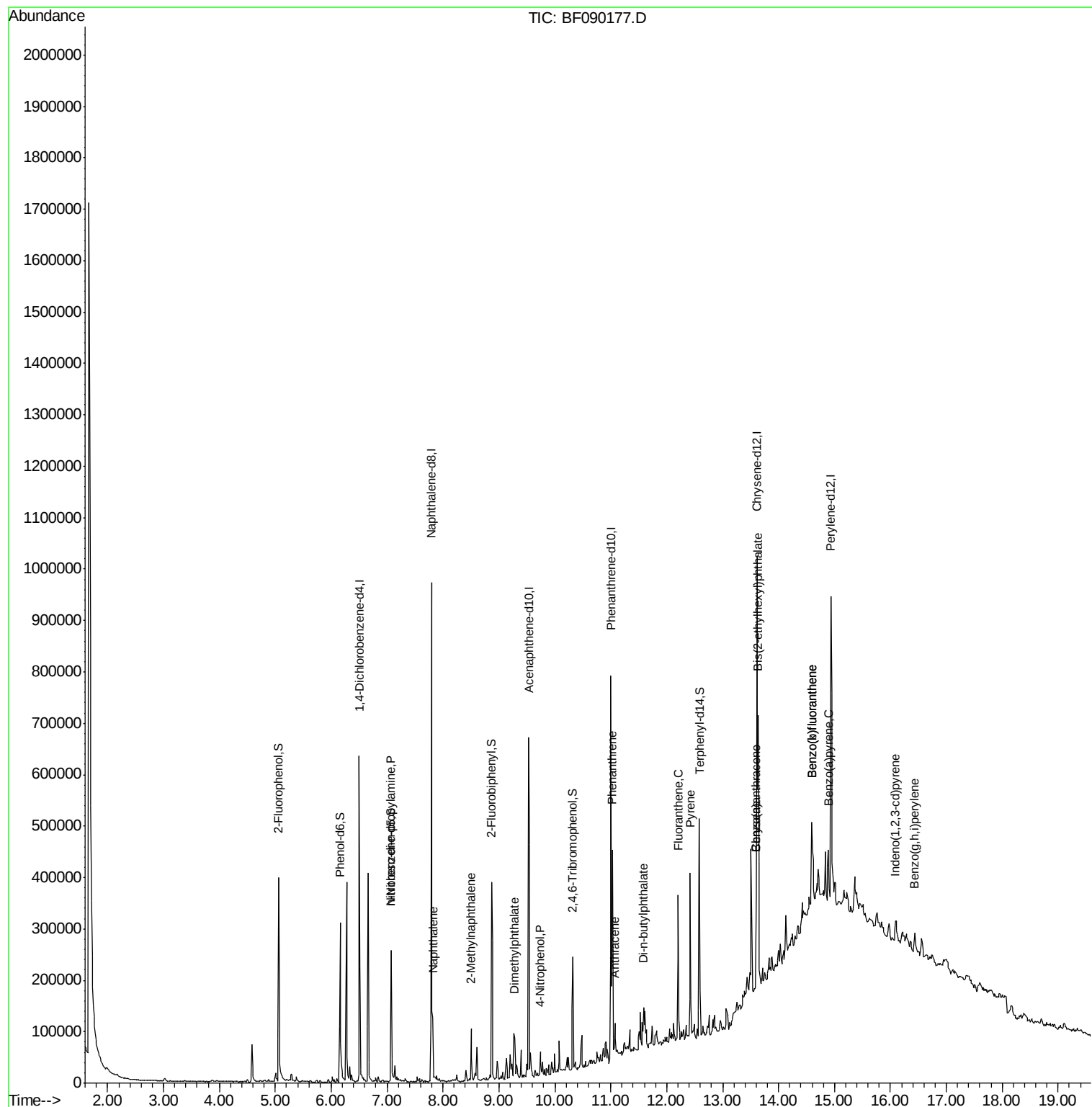
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	112262	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	425839	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	190005	20.00	ng	-0.02
63) Phenanthrene-d10	11.01	188	288435	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	310701	20.00	ng	-0.02
86) Perylene-d12	14.94	264	299347	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	156851	22.77	ng	-0.01
7) Phenol-d6	6.16	99	171553	20.17	ng	-0.01
23) Nitrobenzene-d5	7.07	82	103952	14.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	31768	19.49	ng	-0.02
44) 2-Fluorobiphenyl	8.87	172	175352	18.12	ng	-0.02
78) Terphenyl-d14	12.58	244	130983	10.70	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.07	70	9998	2.00	ng	# 80
31) Naphthalene	7.82	128	54313	2.68	ng	97
37) 2-Methylnaphthalene	8.50	142	35196	2.79	ng	99
49) Dimethylphthalate	9.28	163	55077	4.55	ng	99
55) 4-Nitrophenol	9.74	139	6974	3.22	ng	# 22
70) Phenanthrene	11.03	178	151395	11.22	ng	98
71) Anthracene	11.07	178	35269	2.49	ng	97
73) Di-n-butylphthalate	11.59	149	37255	2.14	ng	99
74) Fluoranthene	12.21	202	141903	9.80	ng	92
77) Pyrene	12.42	202	124313	5.85	ng	97
80) Benzo(a)anthracene	13.60	228	66963	4.01	ng	# 88
82) Chrysene	13.60	228	66963	4.11	ng	92
83) Bis(2-ethylhexyl)phthalate	13.63	149	125848	9.46	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.09	276	29246	2.22	ng	96
87) Benzo(b)fluoranthene	14.59	252	104487	6.30	ng	96
88) Benzo(k)fluoranthene	14.59	252	104487	6.72	ng	# 90
89) Benzo(a)pyrene	14.89	252	51250	3.29	ng	# 91
91) Benzo(g,h,i)perylene	16.43	276	27405	2.30	ng	92

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

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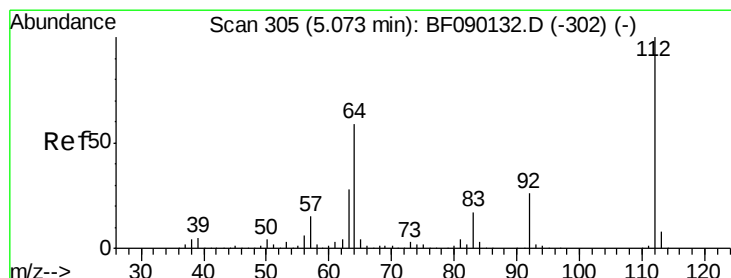
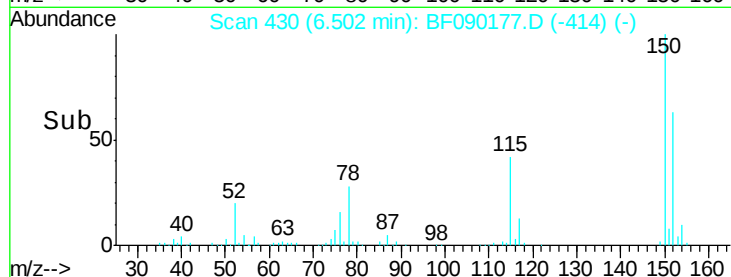
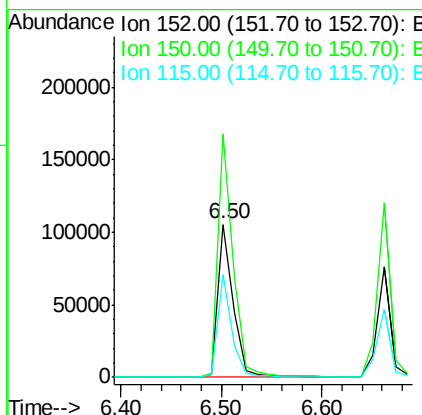
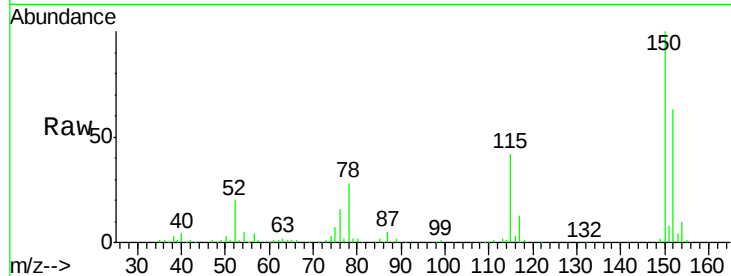




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.50 min Scan# 430
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

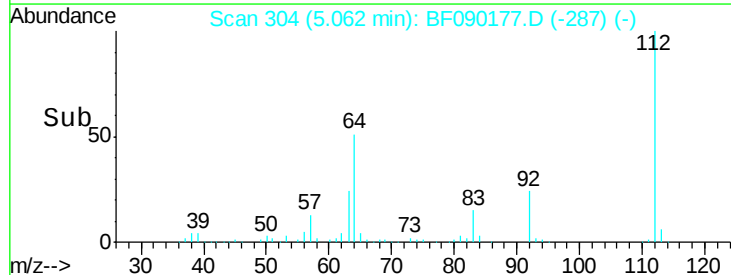
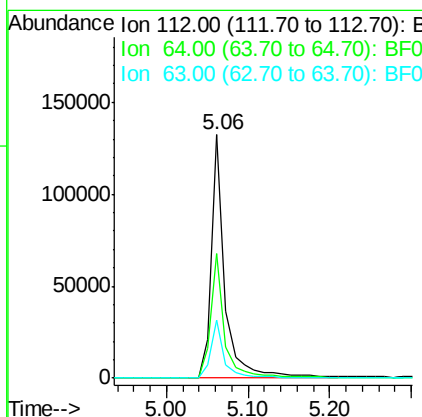
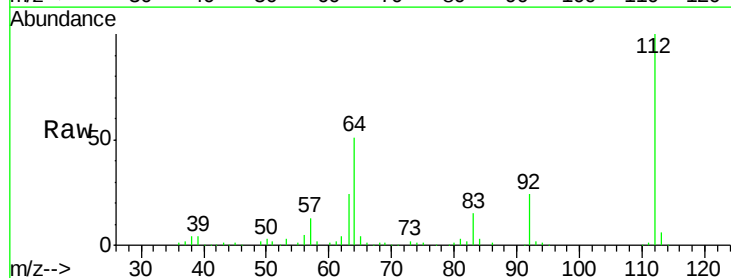
Instrument :
 BNA_F
 ClientSampled :
 SS-2

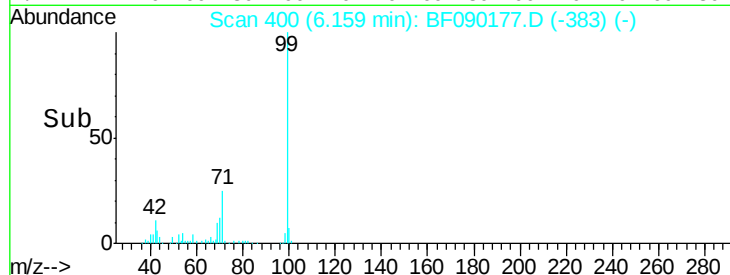
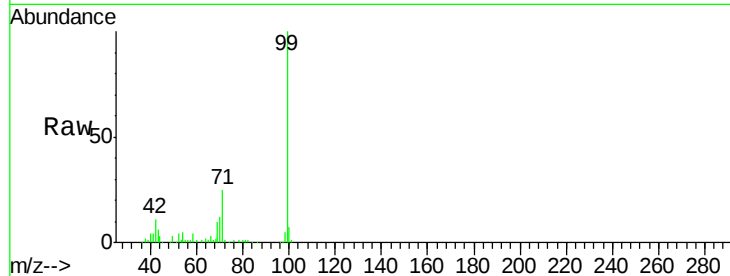
Tgt Ion:152 Resp: 112262
 Ion Ratio Lower Upper
 152 100
 150 159.1 128.9 193.3
 115 67.2 55.5 83.3



#5
 2-Fluorophenol
 Concen: 22.77 ng
 RT: 5.06 min Scan# 304
 Delta R.T. -0.01 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Tgt Ion:112 Resp: 156851
 Ion Ratio Lower Upper
 112 100
 64 51.0 39.8 59.6
 63 24.1 18.9 28.3





#7

Phenol-d6

Concen: 20.17 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

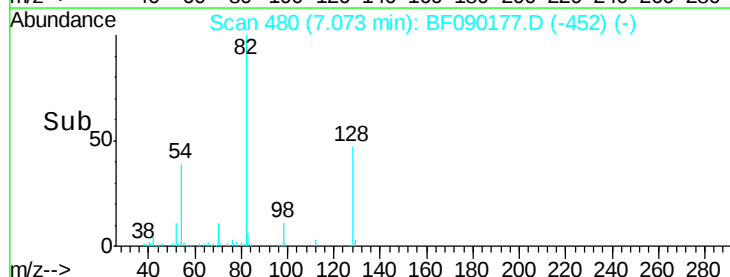
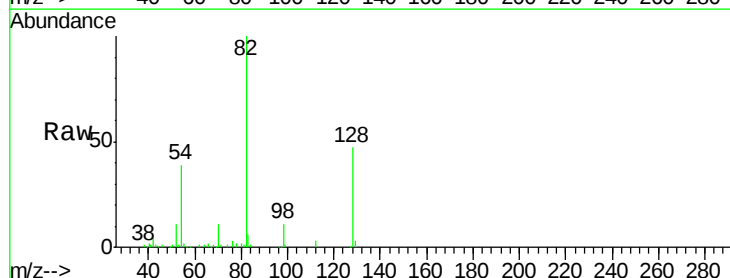
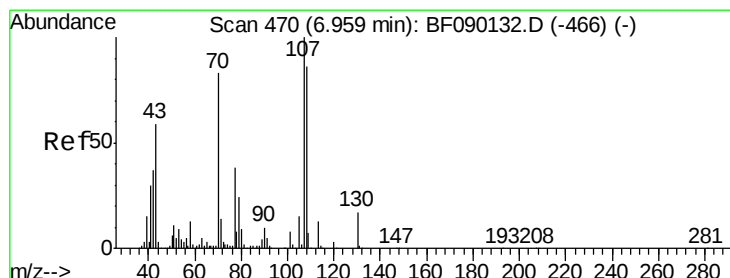
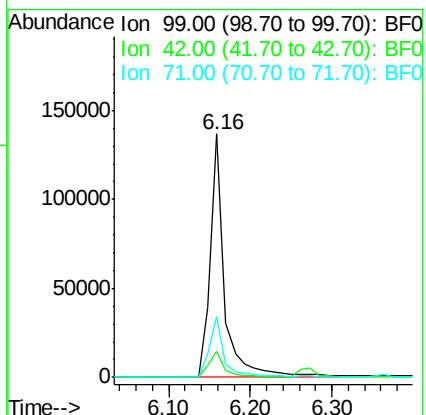
Tgt Ion: 99 Resp: 171553

Ion Ratio Lower Upper

99 100

42 10.8 10.6 15.8

71 25.1 23.0 34.6



#19

n-Nitroso-di-n-propylamine

Concen: 2.00 ng

RT: 7.07 min Scan# 480

Delta R.T. 0.12 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Tgt Ion: 70 Resp: 9998

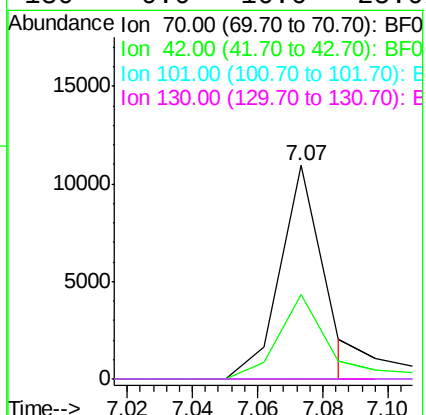
Ion Ratio Lower Upper

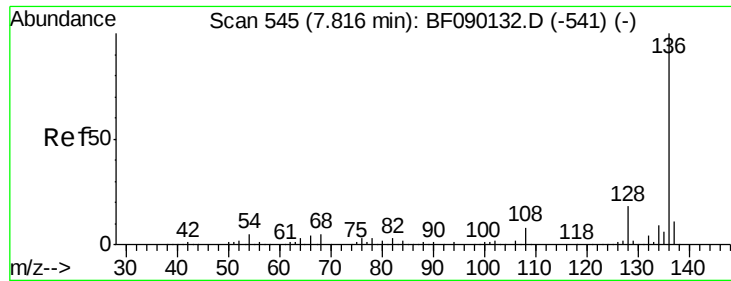
70 100

42 39.4 35.1 52.7

101 0.0 7.5 11.3#

130 0.0 16.6 25.0#

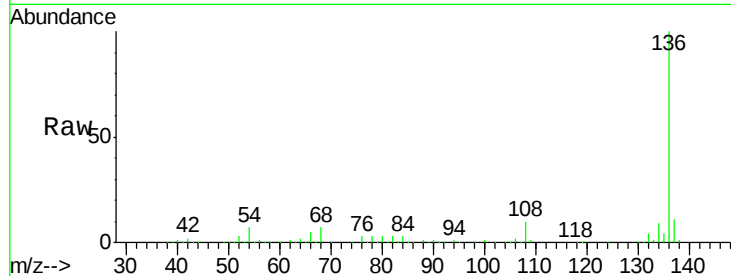




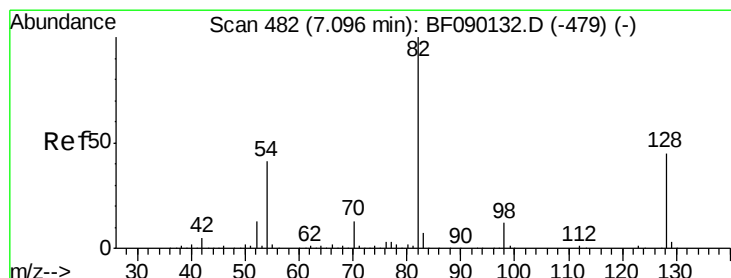
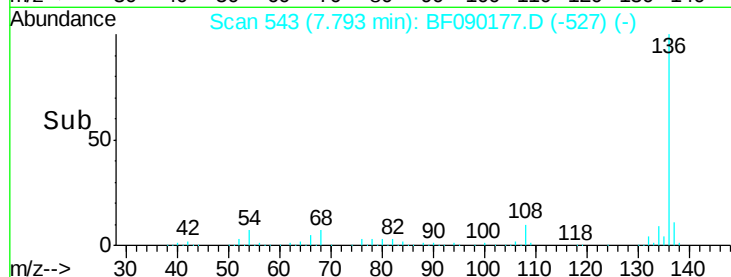
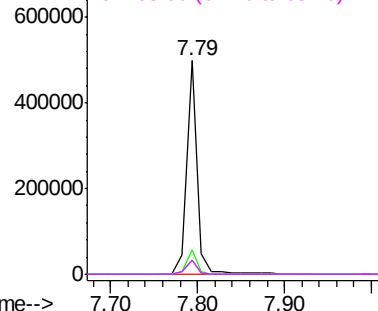
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.79 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Instrument :
BNA_F
ClientSampleId :
SS-2

Tgt Ion:	136	Resp:	425839
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.7	6.4	9.6
68	6.7	6.3	9.5

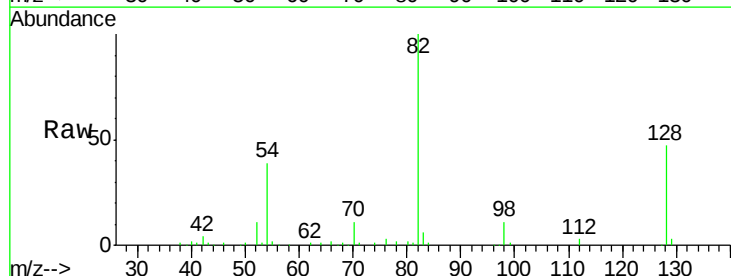


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

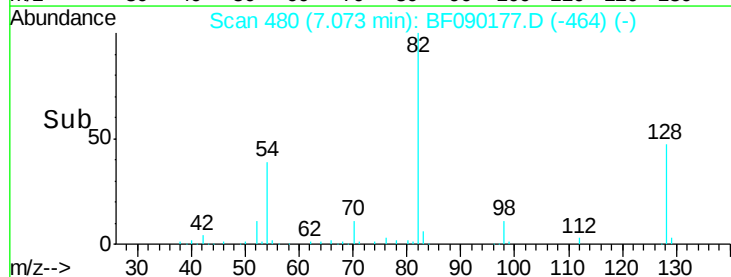
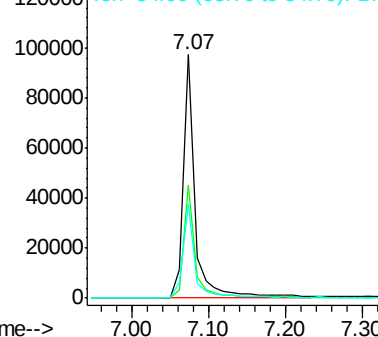


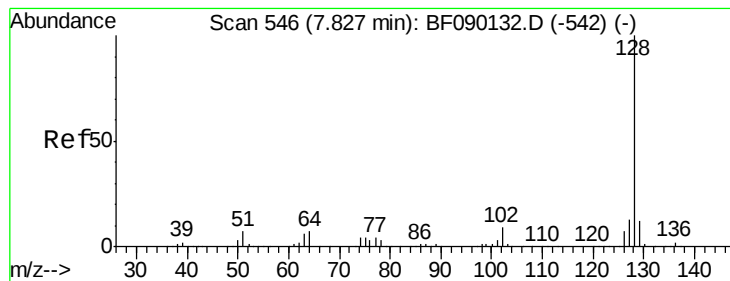
#23
Nitrobenzene-d5
Concen: 14.15 ng
RT: 7.07 min Scan# 480
Delta R.T. -0.02 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Tgt Ion:	82	Resp:	103952
Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.5	56.3
54	38.7	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: 2.68 ng

RT: 7.82 min Scan# 545

Delta R.T. -0.01 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

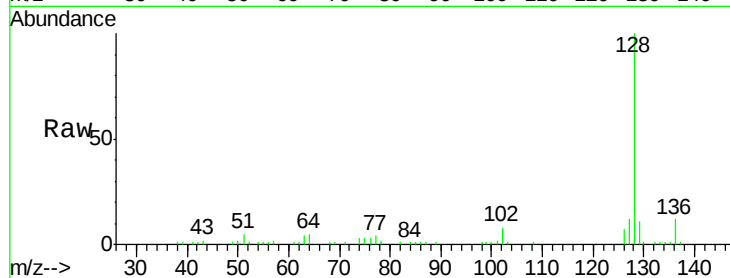
Tgt Ion:128 Resp: 54313

Ion Ratio Lower Upper

128 100

129 10.8 9.3 13.9

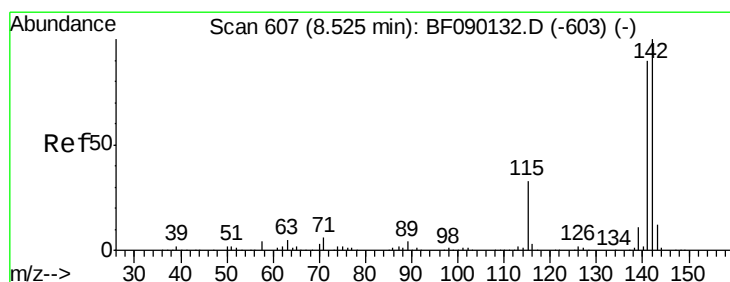
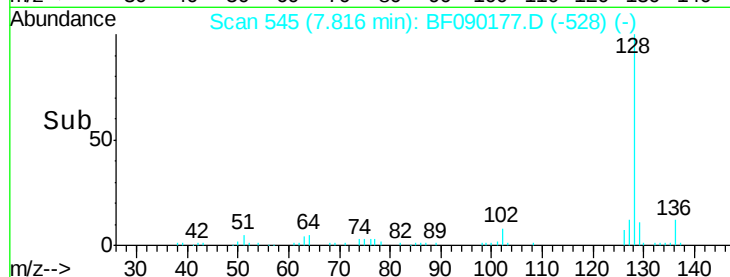
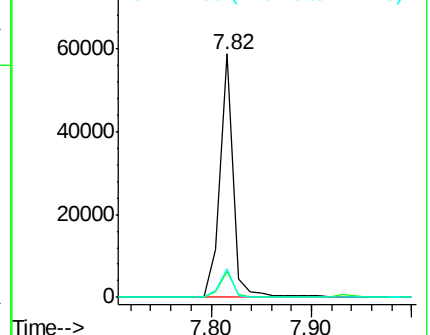
127 11.7 10.8 16.2



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: 2.79 ng

RT: 8.50 min Scan# 605

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

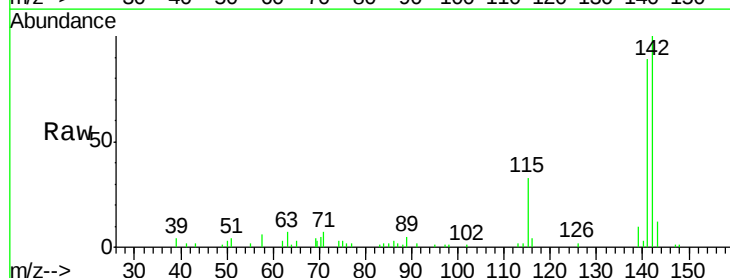
Tgt Ion:142 Resp: 35196

Ion Ratio Lower Upper

142 100

141 89.2 71.4 107.2

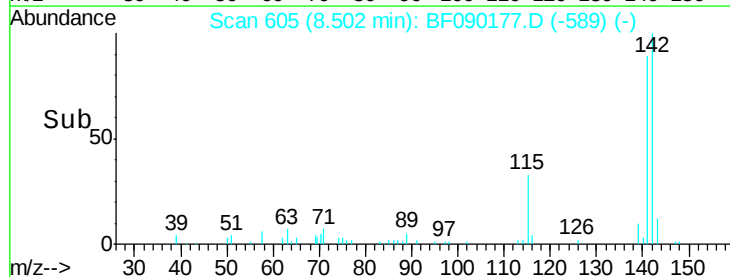
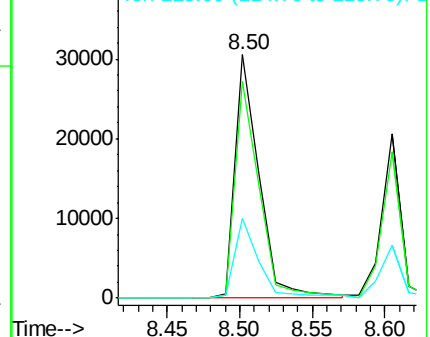
115 32.9 28.3 42.5

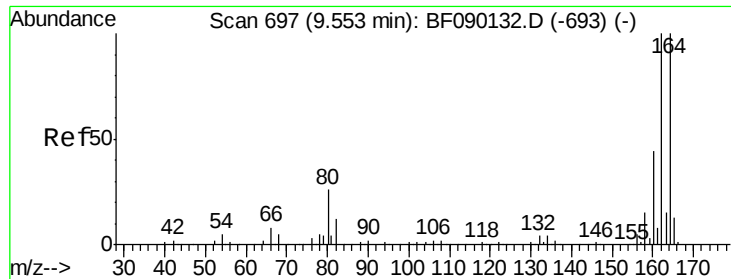


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

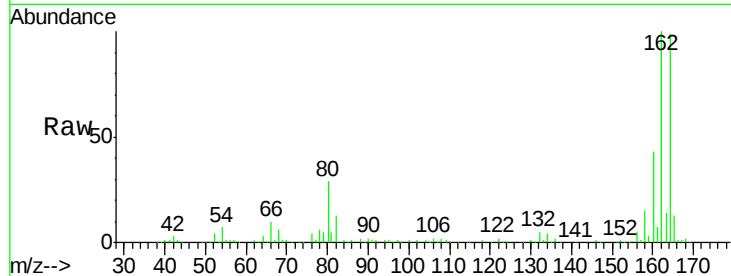




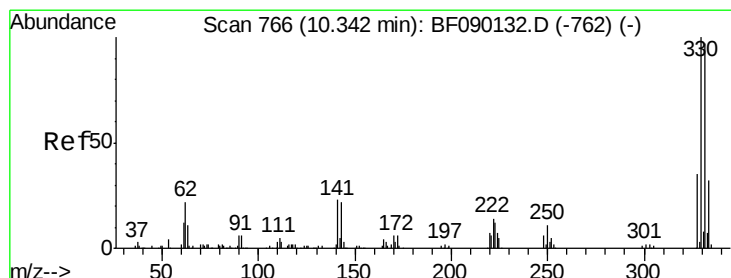
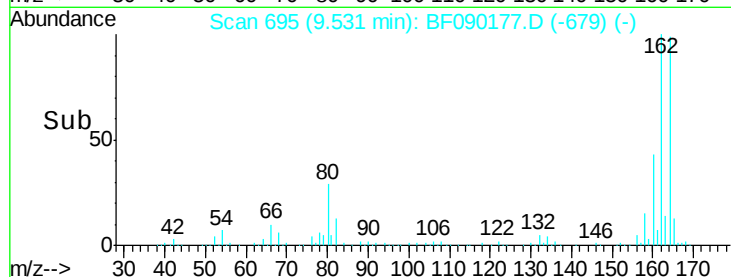
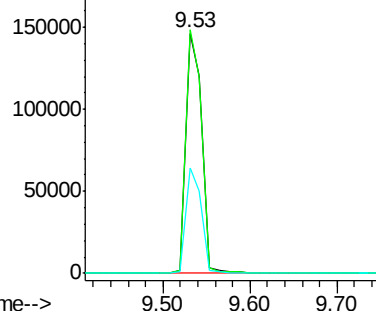
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 695
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

Tgt Ion:164 Resp: 190005
 Ion Ratio Lower Upper
 164 100
 162 101.3 81.4 122.2
 160 43.8 36.6 54.8

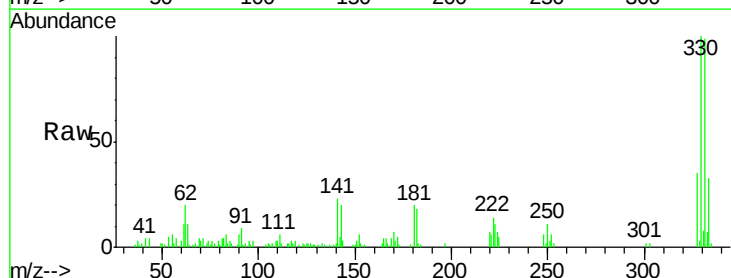


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

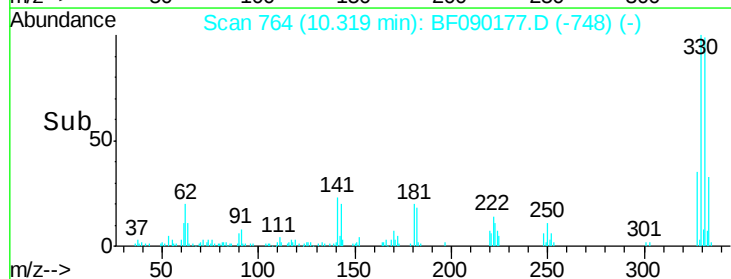
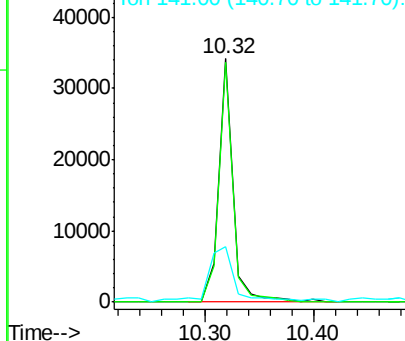


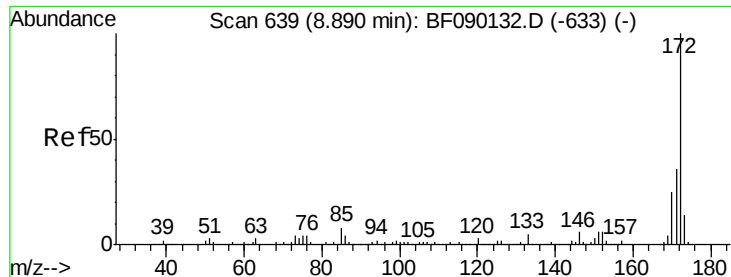
#41
 2,4,6-Tribromophenol
 Concen: 19.49 ng
 RT: 10.32 min Scan# 764
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Tgt Ion:330 Resp: 31768
 Ion Ratio Lower Upper
 330 100
 332 96.9 78.1 117.1
 141 44.3 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

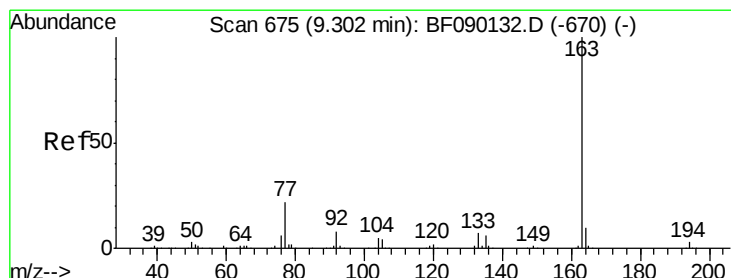
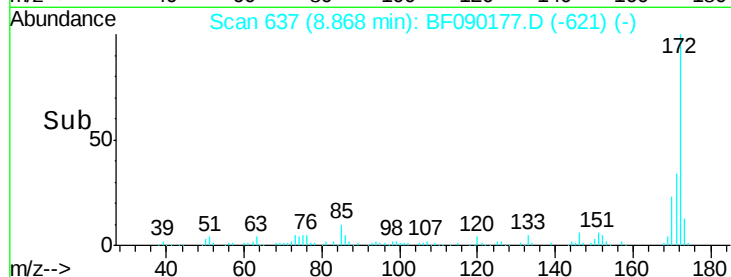
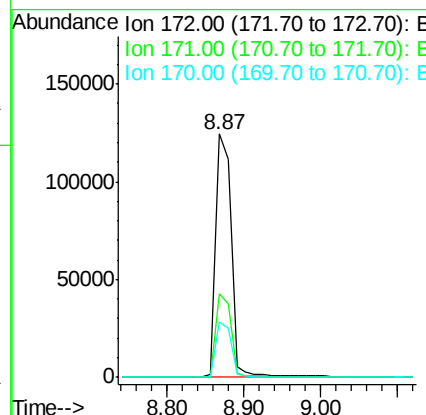
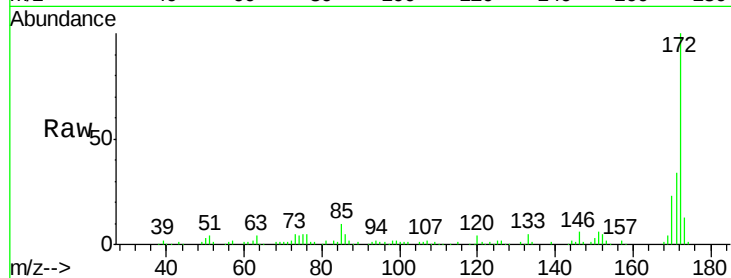




#44
 2-Fluorobiphenyl
 Concen: 18.12 ng
 RT: 8.87 min Scan# 637
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

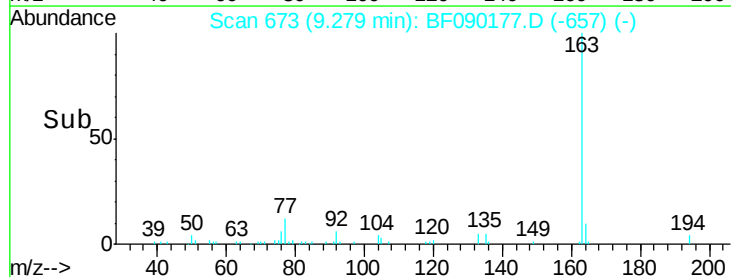
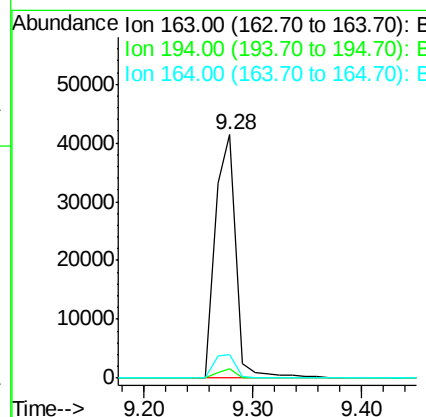
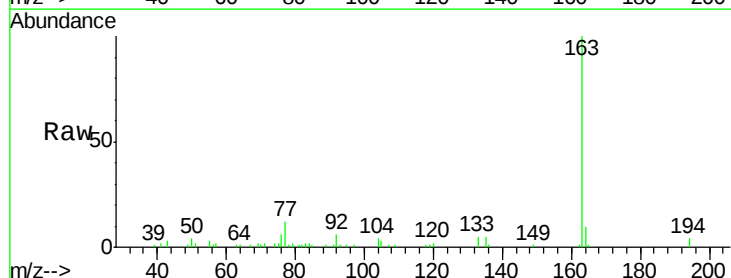
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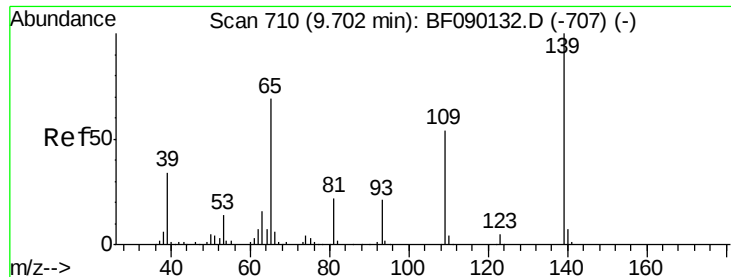
Tgt Ion:172 Resp: 175352
 Ion Ratio Lower Upper
 172 100
 171 34.1 29.2 43.8
 170 22.8 19.8 29.8



#49
 Dimethylphthalate
 Concen: 4.55 ng
 RT: 9.28 min Scan# 673
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Tgt Ion:163 Resp: 55077
 Ion Ratio Lower Upper
 163 100
 194 3.8 2.8 4.2
 164 9.8 8.1 12.1

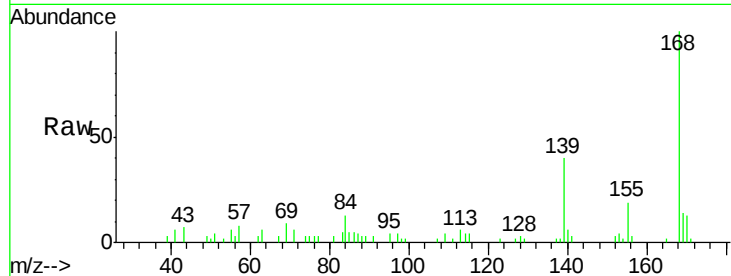




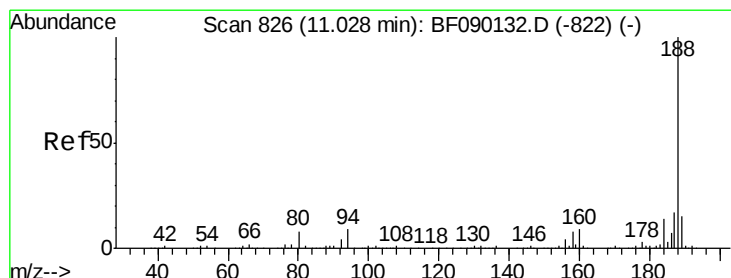
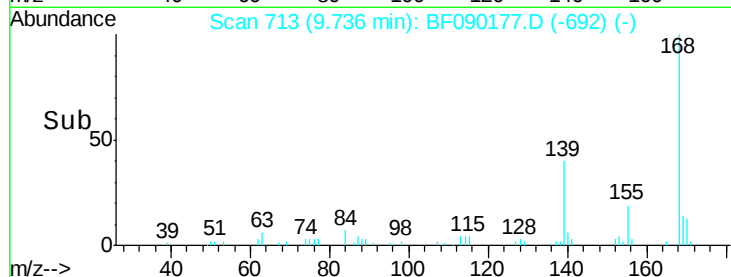
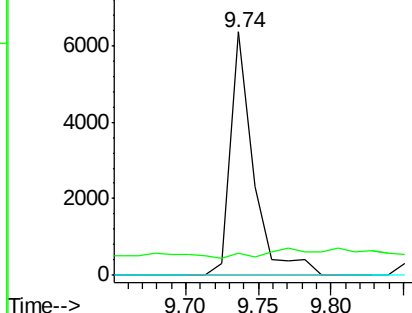
#55
4-Nitrophenol
Concen: 3.22 ng
RT: 9.74 min Scan# 713
Delta R.T. 0.04 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Instrument :
BNA_F
ClientSampleId :
SS-2

Tgt Ion:139 Resp: 6974
Ion Ratio Lower Upper
139 100
109 9.2 35.6 75.6#
65 0.0 55.5 95.5#

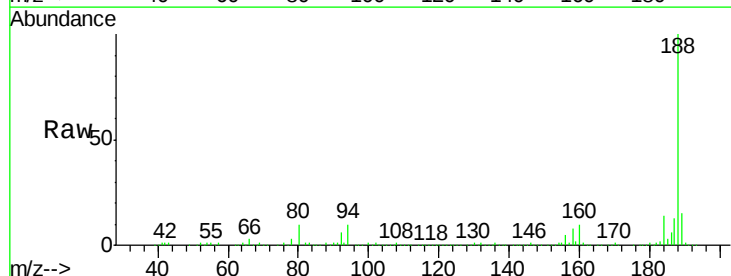


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

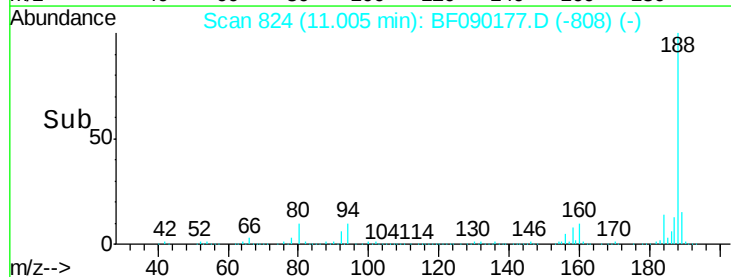
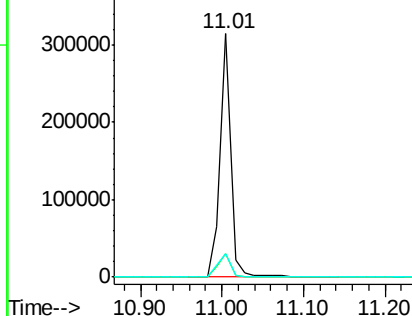


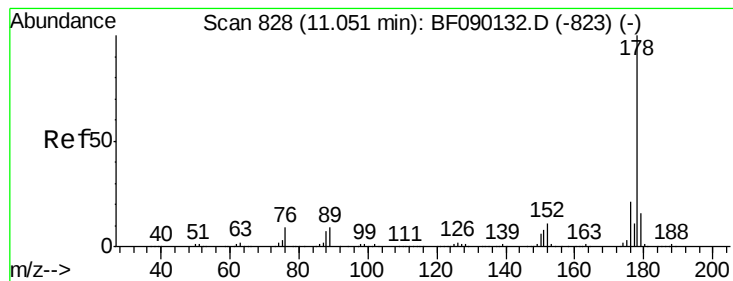
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.01 min Scan# 824
Delta R.T. -0.02 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Tgt Ion:188 Resp: 288435
Ion Ratio Lower Upper
188 100
94 9.8 10.5 15.7#
80 9.6 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: 11.22 ng

RT: 11.03 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

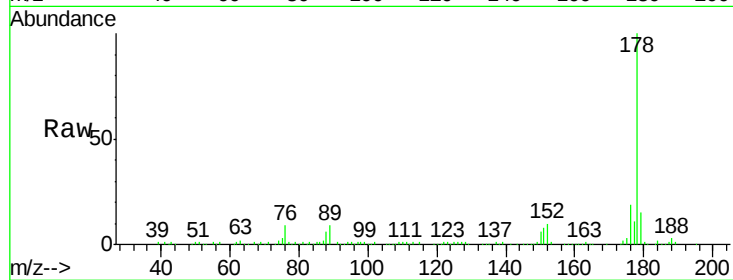
Tgt Ion:178 Resp: 151395

Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

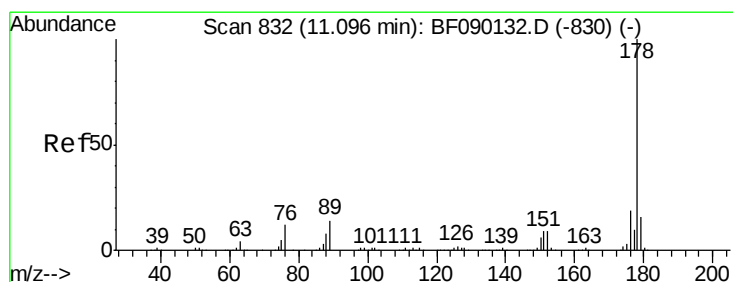
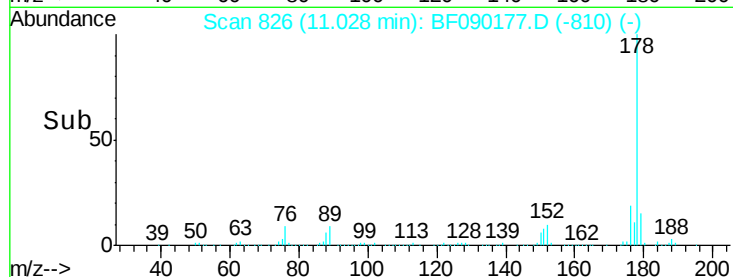
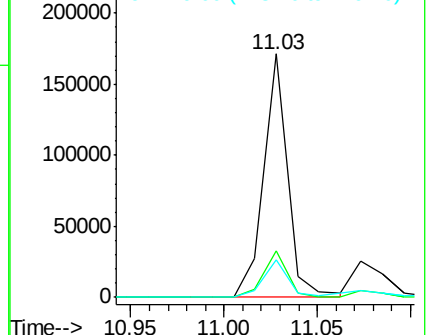
179 15.3 12.9 19.3



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: 2.49 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

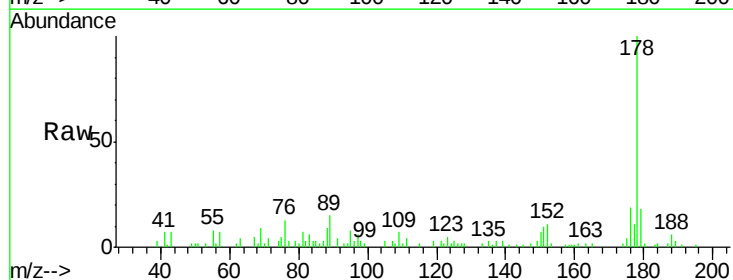
Tgt Ion:178 Resp: 35269

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.6

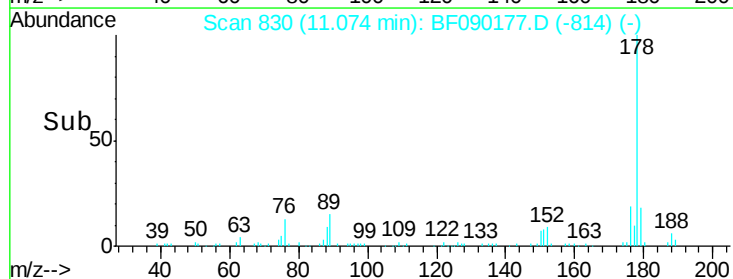
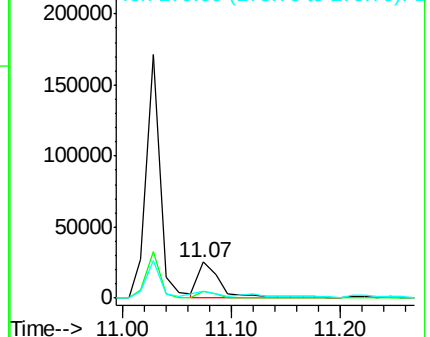
179 18.2 12.6 19.0

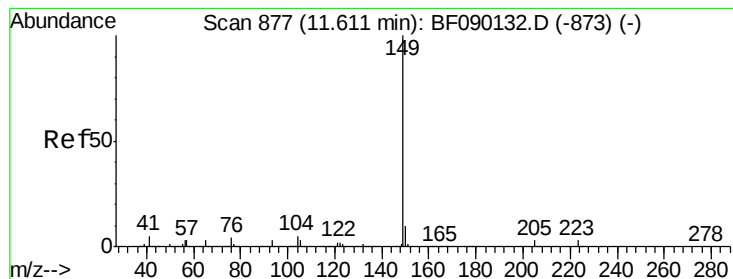


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 2.14 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

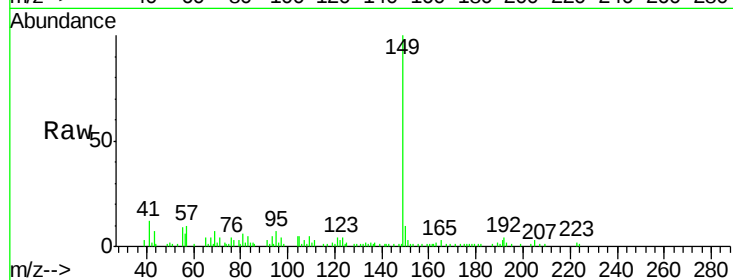
Tgt Ion:149 Resp: 37255

Ion Ratio Lower Upper

149 100

150 10.3 7.8 11.8

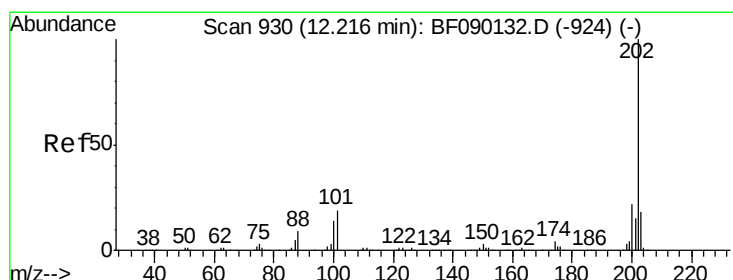
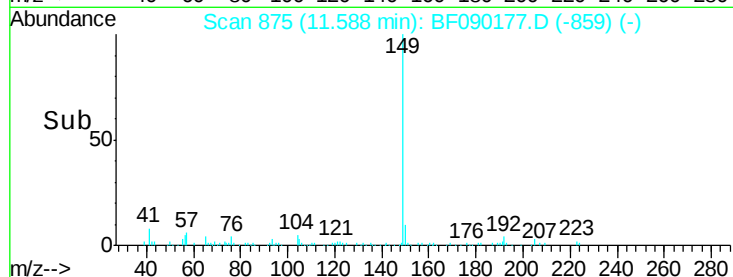
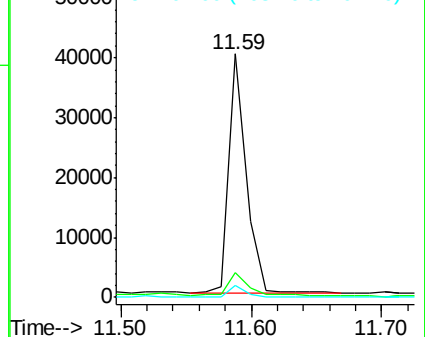
104 4.7 3.9 5.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 9.80 ng

RT: 12.21 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

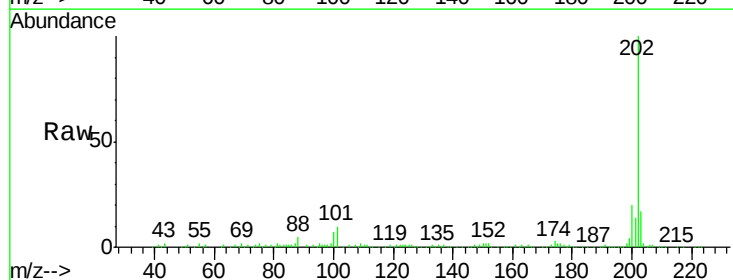
Tgt Ion:202 Resp: 141903

Ion Ratio Lower Upper

202 100

101 10.1 0.0 36.1

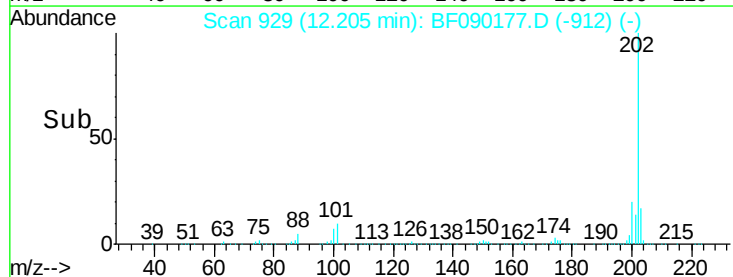
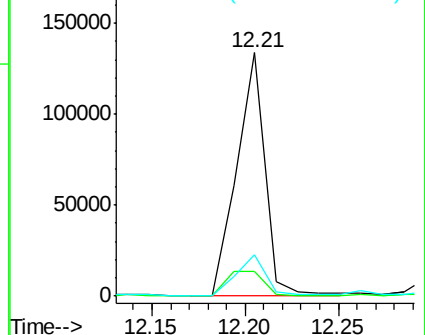
203 17.2 0.0 38.2

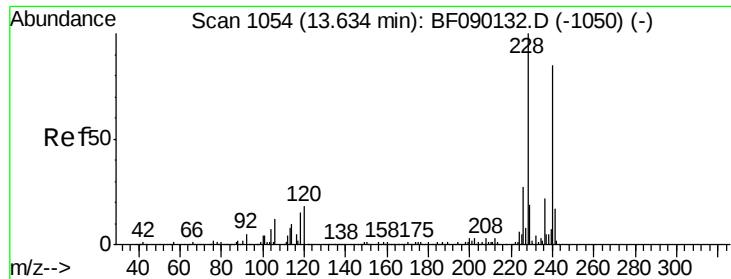


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

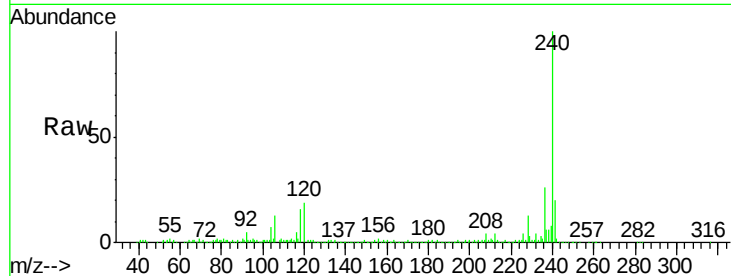
Tgt Ion:240 Resp: 310701

Ion Ratio Lower Upper

240 100

120 19.2 10.6 16.0#

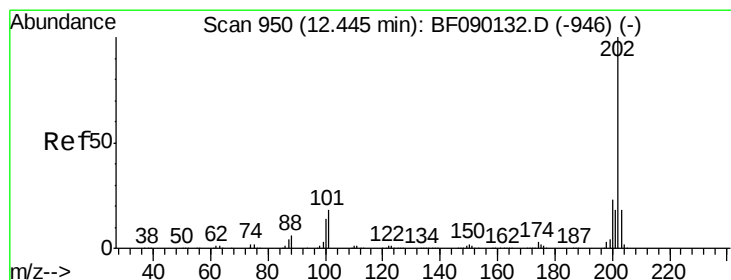
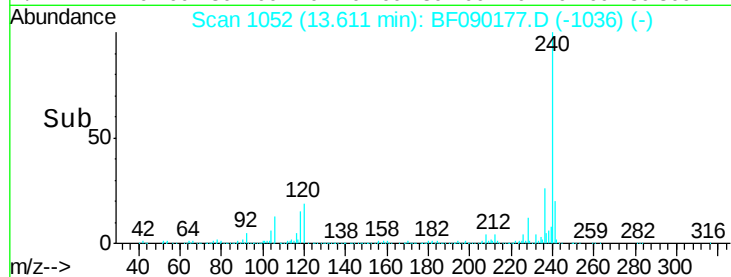
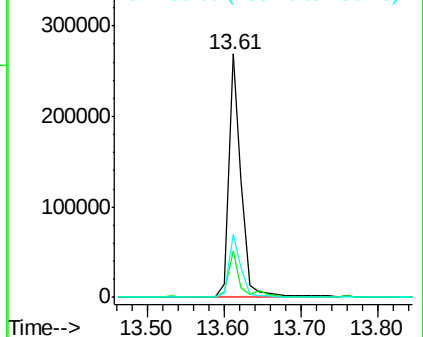
236 25.9 21.6 32.4



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: 5.85 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

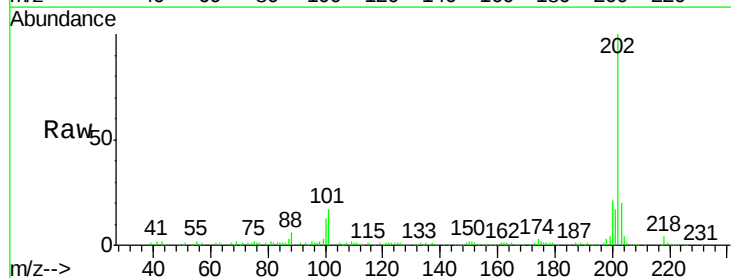
Tgt Ion:202 Resp: 124313

Ion Ratio Lower Upper

202 100

200 21.2 17.9 26.9

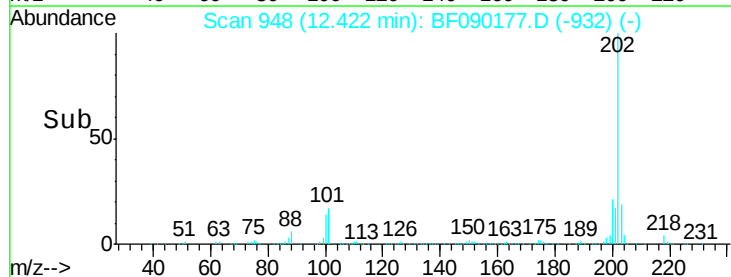
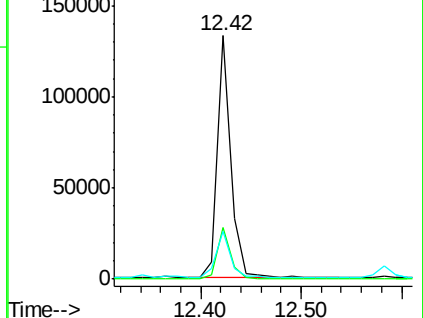
203 19.7 14.2 21.4

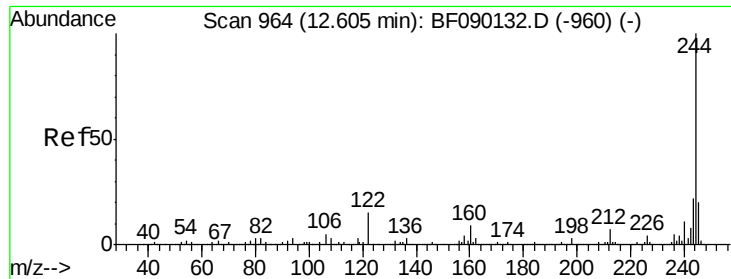


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

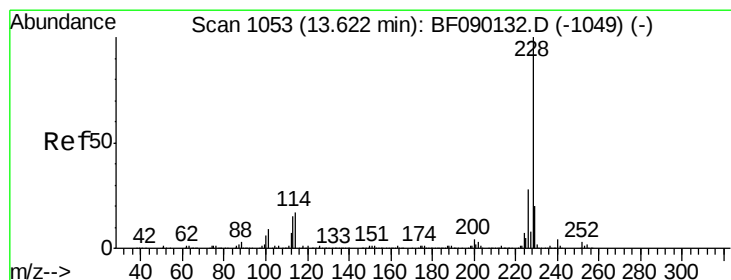
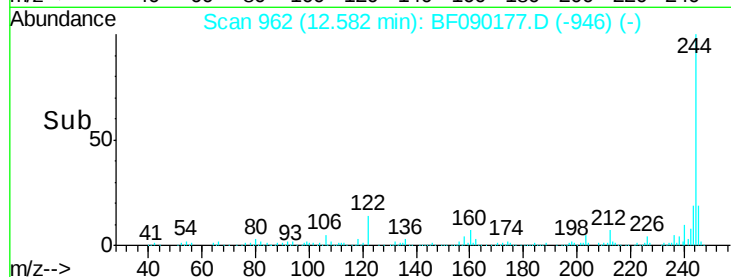
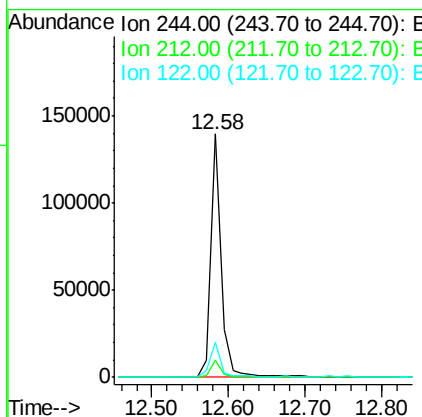
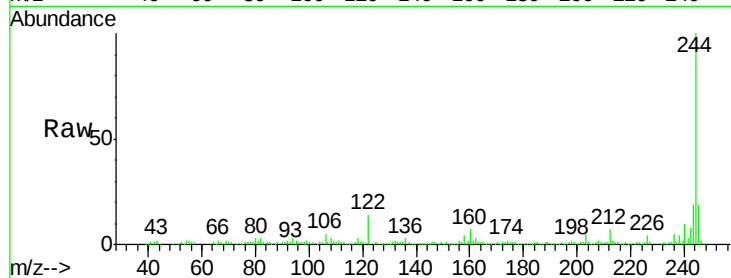




#78
 Terphenyl-d14
 Concen: 10.70 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

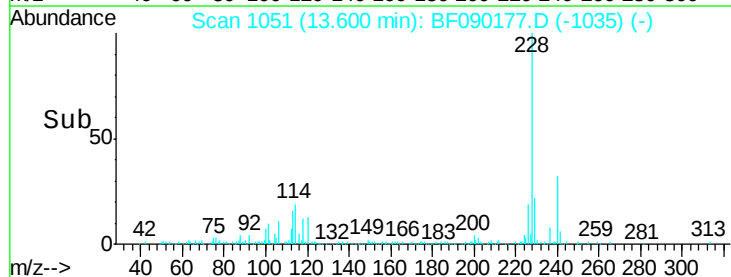
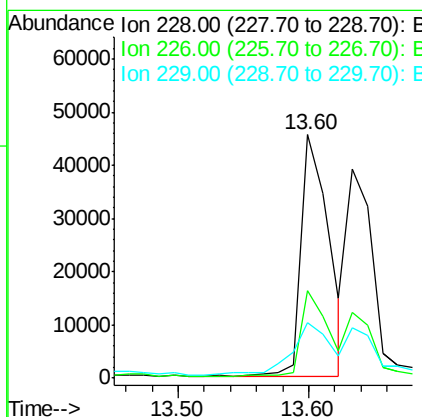
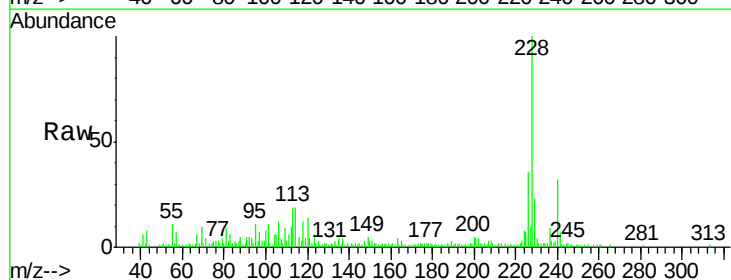
Instrument :
 BNA_F
 ClientSampleId :
 SS-2

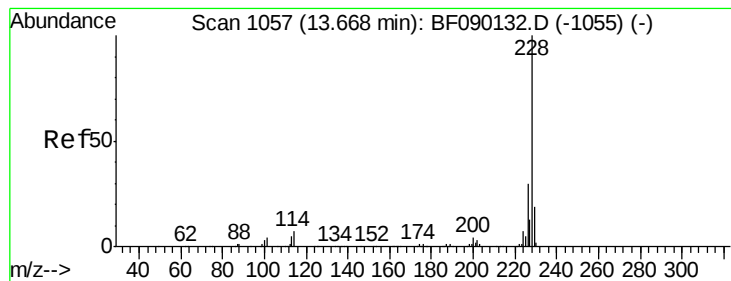
Tgt Ion:244 Resp: 130983
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.8
 122 14.1 9.4 14.0#



#80
 Benzo(a)anthracene
 Concen: 4.01 ng
 RT: 13.60 min Scan# 1051
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Tgt Ion:228 Resp: 66963
 Ion Ratio Lower Upper
 228 100
 226 35.8 22.0 33.0#
 229 22.9 16.2 24.2





#82

Chrysene

Concen: 4.11 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.07 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

SS-2

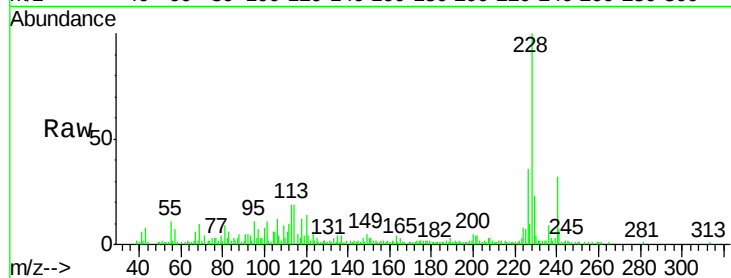
Tgt Ion:228 Resp: 66963

Ion Ratio Lower Upper

228 100

226 35.8 24.6 37.0

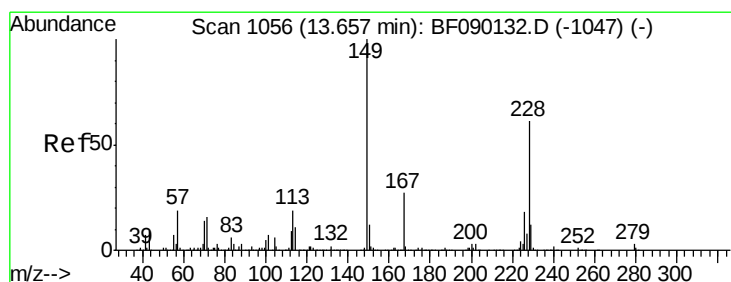
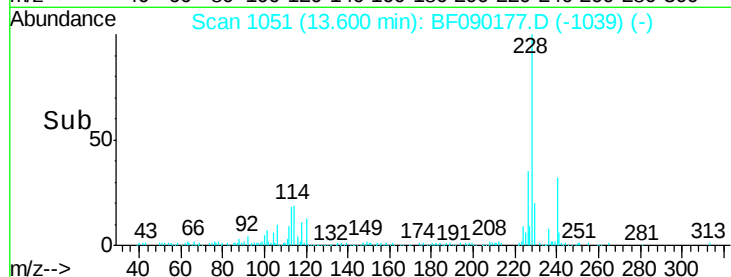
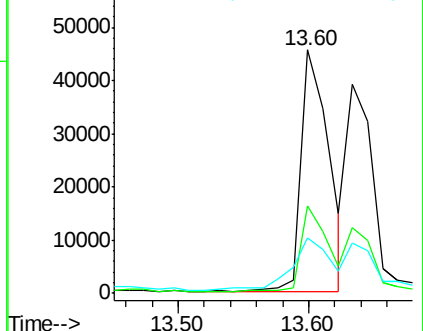
229 22.9 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 9.46 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF090177.D

Acq: 21 Sep 2016 23:37

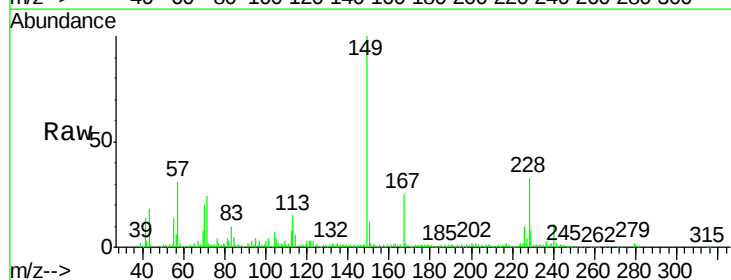
Tgt Ion:149 Resp: 125848

Ion Ratio Lower Upper

149 100

167 25.1 21.2 31.8

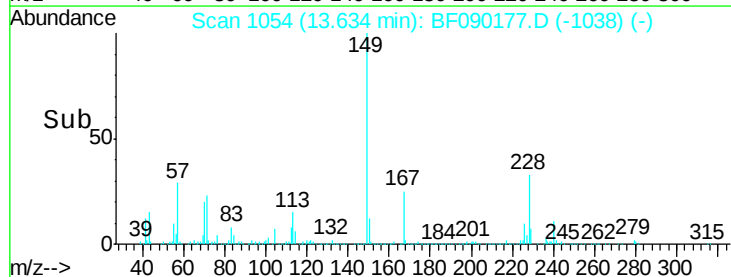
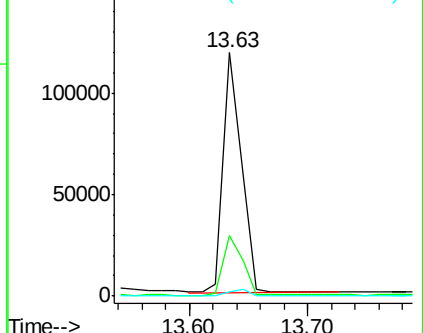
279 2.0 2.2 3.2#

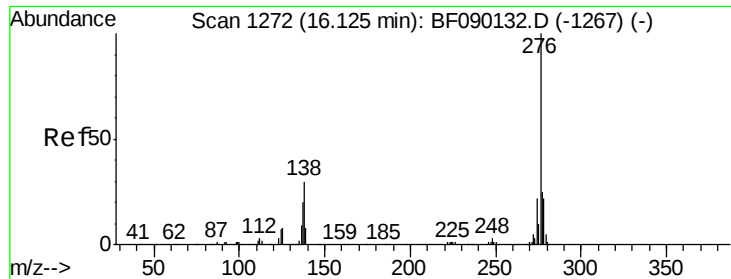


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

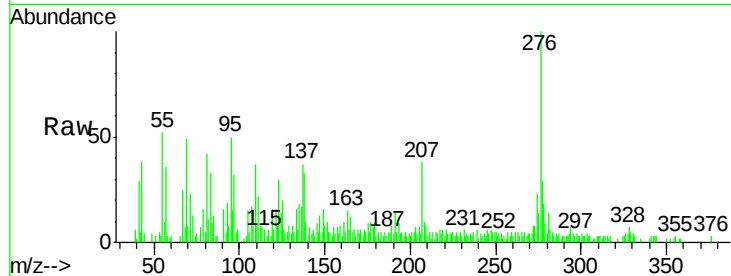




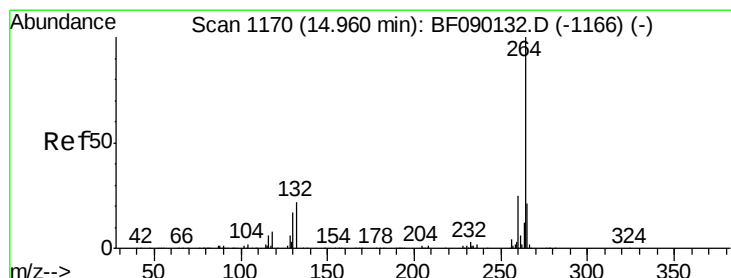
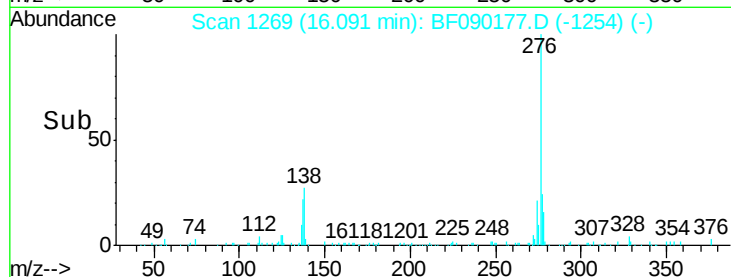
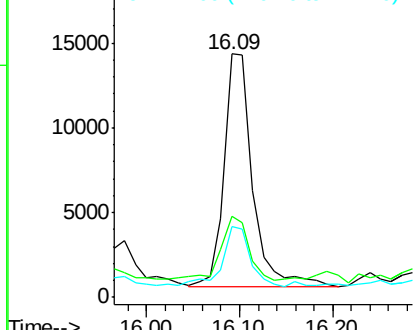
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.22 ng
 RT: 16.09 min Scan# 1269
 Delta R.T. -0.03 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

Tgt Ion:	276	Resp:	29246
Ion	Ratio	Lower	Upper
276	100		
138	29.5	25.9	38.9
277	26.2	19.9	29.9

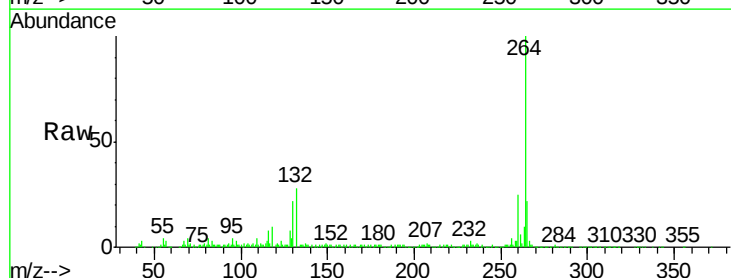


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

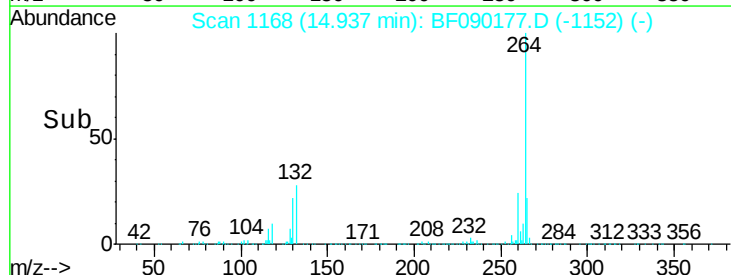
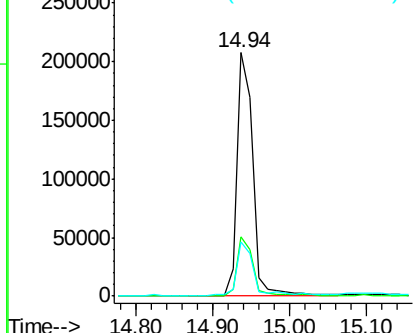


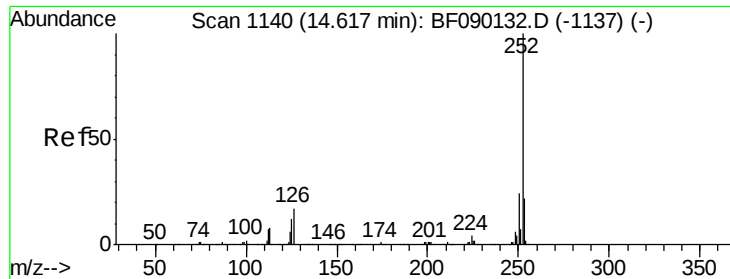
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.94 min Scan# 1168
 Delta R.T. -0.02 min
 Lab File: BF090177.D
 Acq: 21 Sep 2016 23:37

Tgt Ion:	264	Resp:	299347
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.1	17.0	25.4



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

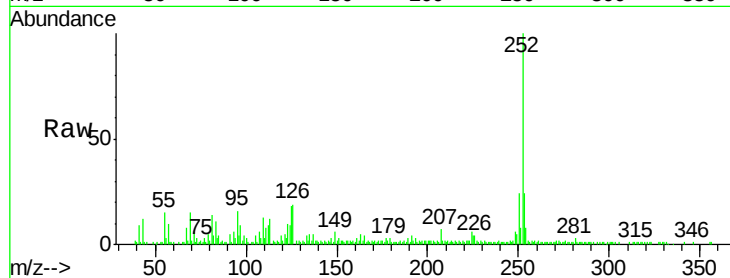




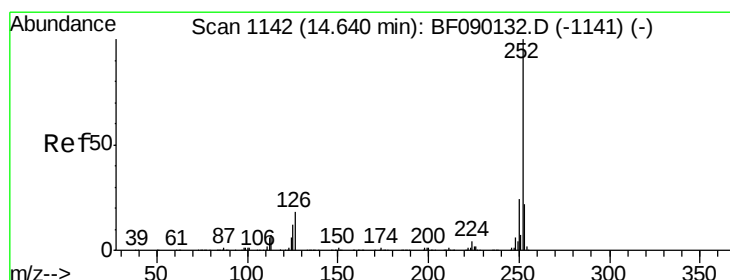
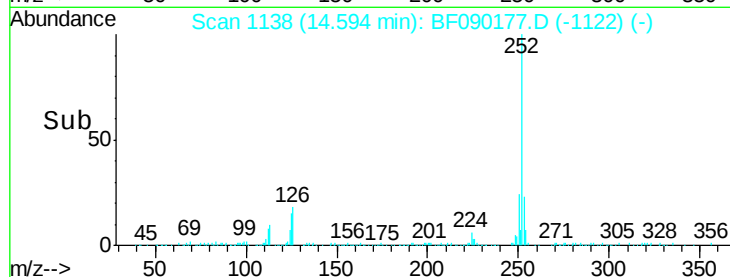
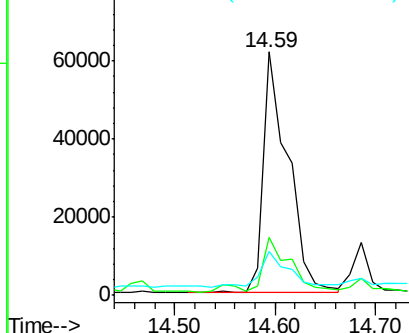
#87
Benzo(b)fluoranthene
Concen: 6.30 ng
RT: 14.59 min Scan# 1138
Delta R.T. -0.02 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Instrument :
BNA_F
ClientSampleId :
SS-2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	18.2	12.7	19.1

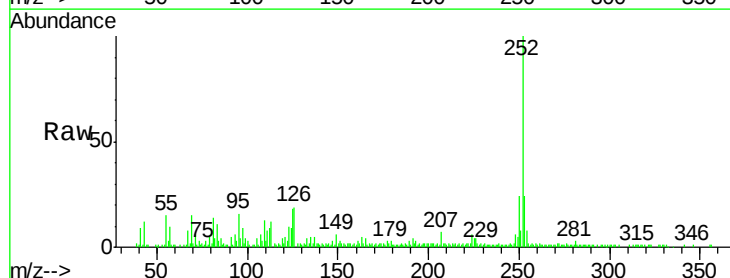


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

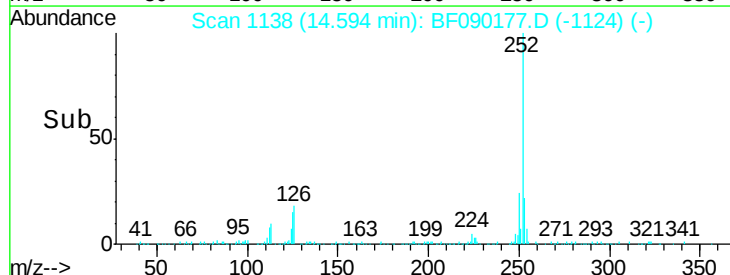
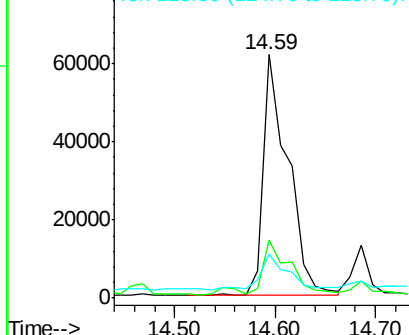


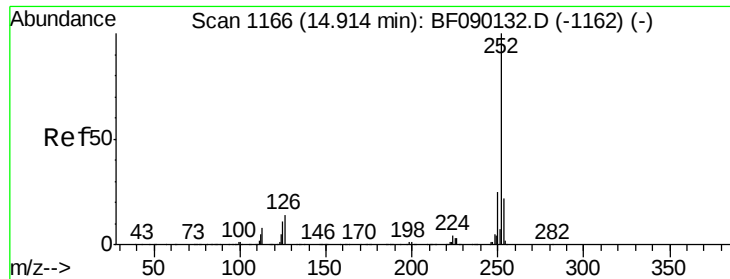
#88
Benzo(k)fluoranthene
Concen: 6.72 ng
RT: 14.59 min Scan# 1138
Delta R.T. -0.05 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.8	26.8
125	18.2	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

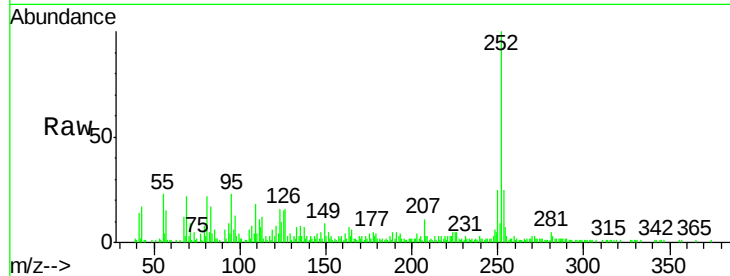




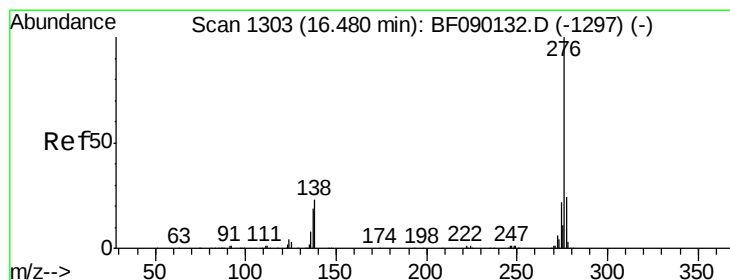
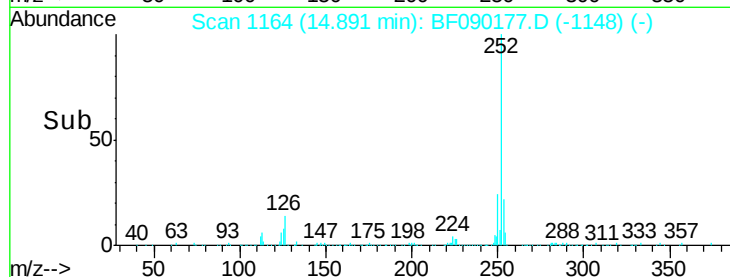
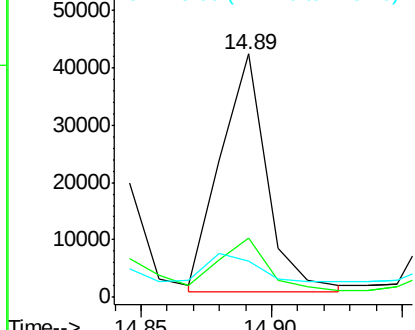
#89
Benzo(a)pyrene
Concen: 3.29 ng
RT: 14.89 min Scan# 1164
Delta R.T. -0.02 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Instrument :
BNA_F
ClientSampleId :
SS-2

Tgt Ion: 252 Resp: 51250
Ion Ratio Lower Upper
252 100
253 24.6 17.4 26.0
125 15.0 7.7 11.5#

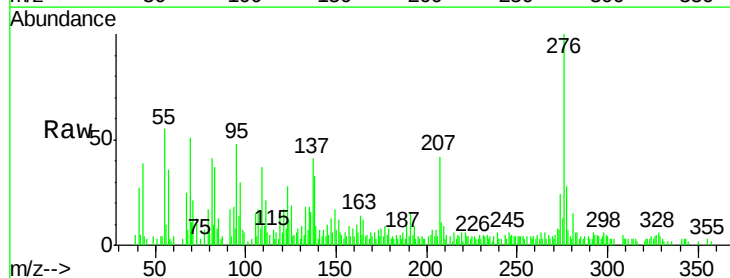


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.30 ng
RT: 16.43 min Scan# 1299
Delta R.T. -0.05 min
Lab File: BF090177.D
Acq: 21 Sep 2016 23:37

Tgt Ion: 276 Resp: 27405
Ion Ratio Lower Upper
276 100
277 27.9 18.9 28.3
138 33.3 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

