

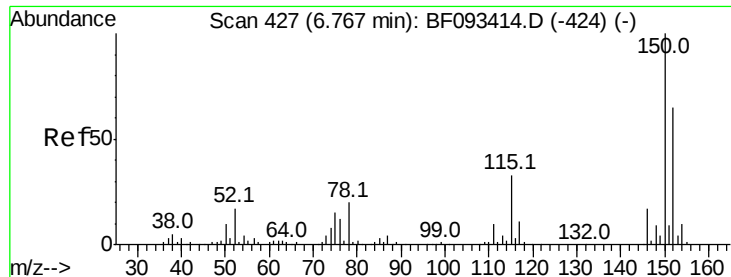
Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093681.D
 Acq On : 15 Mar 2017 21:21
 Operator : SJ/MA
 Sample : I2264-04
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB6-SSW

Quant Time: Mar 16 09:00:10 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	167785	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	631175	20.00	ng	-0.01
38) Acenaphthene-d10	9.75	164	236851	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	334860	20.00	ng	0.00
75) Chrysene-d12	13.89	240	309436	20.00	ng	0.00
86) Perylene-d12	15.31	264	300040	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1294600	128.42	ng	-0.01
7) Phenol-d6	6.37	99	1663627	130.86	ng	-0.01
23) Nitrobenzene-d5	7.28	82	946030	83.16	ng	-0.02
41) 2,4,6-Tribromophenol	10.55	330	201453	130.55	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	1206587	94.76	ng	-0.01
78) Terphenyl-d14	12.84	244	774752	65.10	ng	0.01
Target Compounds						Qvalue
10) Phenol	6.39	94	135915	8.72	ng	83
31) Naphthalene	8.02	128	90709	2.87	ng	99
49) Dimethylphthalate	9.49	163	369346	23.52	ng	99
51) Acenaphthene	9.78	154	73684	5.72	ng	96
54) Dibenzofuran	9.97	168	50084	3.11	ng	# 89
57) Fluorene	10.31	166	72338	5.30	ng	97
70) Phenanthrene	11.27	178	356310	18.64	ng	98
71) Anthracene	11.33	178	104824	5.42	ng	96
74) Fluoranthene	12.47	202	436161	23.62	ng	95
77) Pyrene	12.70	202	386831	17.19	ng	98
80) Benzo(a)anthracene	13.89	228	222057	12.15	ng	# 91
82) Chrysene	13.92	228	191221m	11.31	ng	
85) Indeno(1,2,3-cd)pyrene	16.67	276	96071	6.79	ng	93
87) Benzo(b)fluoranthene	14.91	252	220993m	12.09	ng	
88) Benzo(k)fluoranthene	14.92	252	107576m	6.10	ng	
89) Benzo(a)pyrene	15.25	252	180953	10.84	ng	# 93
90) Dibenzo(a,h)anthracene	16.67	278	28124m	2.04	ng	
91) Benzo(g,h,i)perylene	17.08	276	100751	7.10	ng	# 88

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

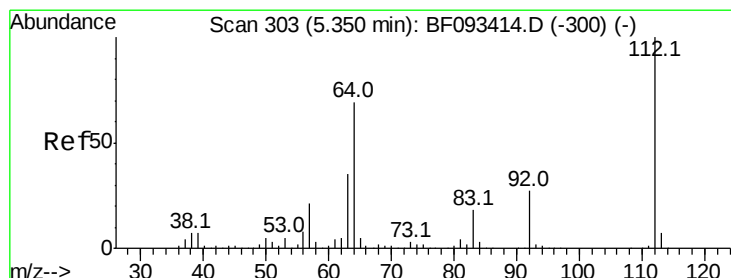
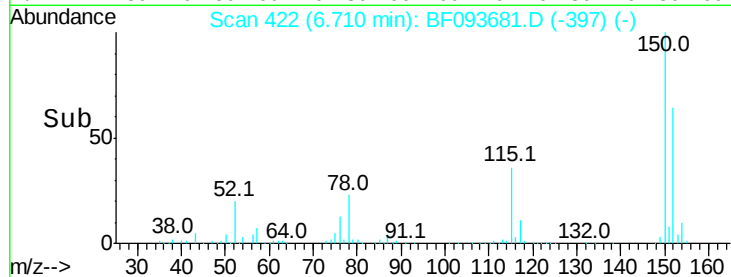
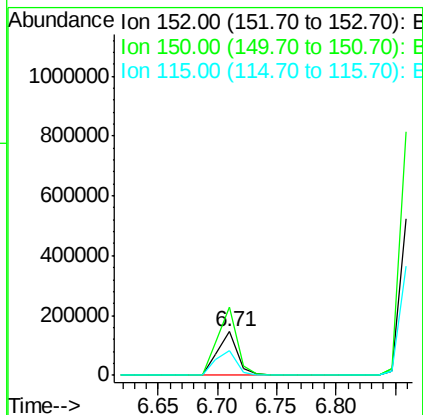
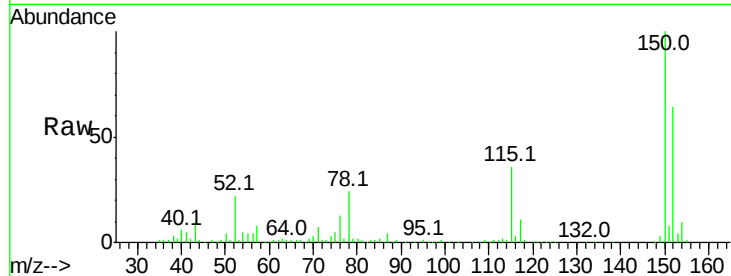


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 422
Delta R.T. -0.01 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

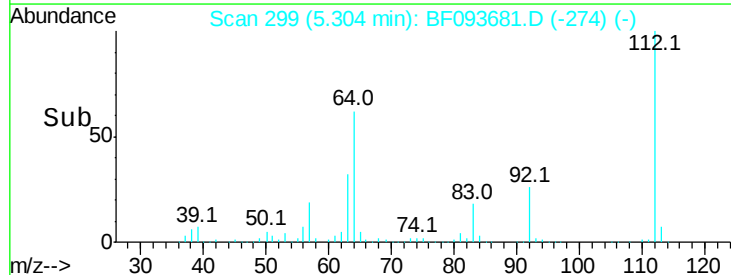
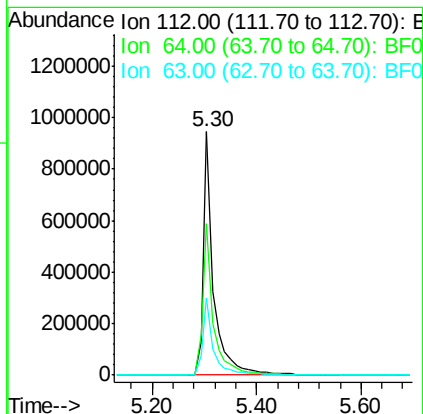
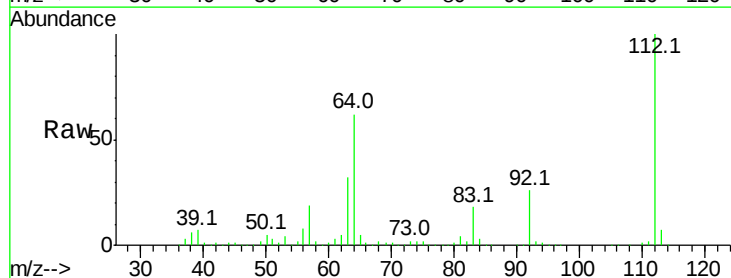
Tot Ion:152 Resp: 167785
Ion Ratio Lower Upper
152 100
150 156.9 124.9 187.3
115 55.8 46.0 69.0

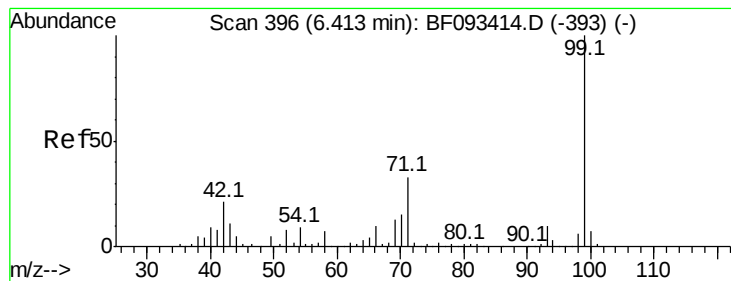


#5

2-Fluorophenol
Concen: 128.42 ng
RT: 5.30 min Scan# 299
Delta R.T. -0.01 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion:112 Resp: 1294600
Ion Ratio Lower Upper
112 100
64 62.1 46.1 69.1
63 31.5 23.8 35.6





#7

Phenol-d6

Concen: 130.86 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

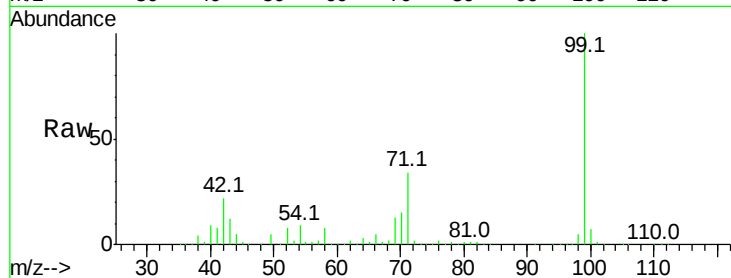
BNA_F

ClientSampleId :

E2-BB6-SSW

Tot Ion: 99 Resp: 1663627

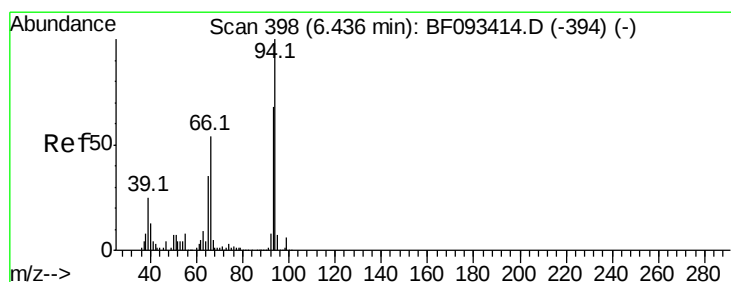
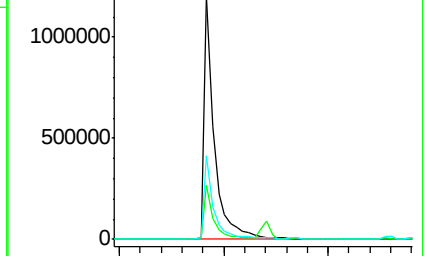
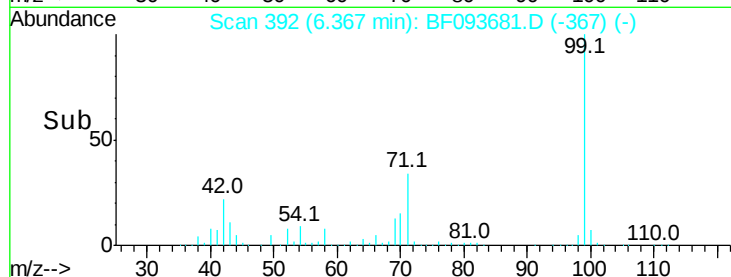
Ion	Ratio	Lower	Upper
99	100		
42	22.2	15.6	23.4
71	34.5	27.5	41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 8.72 ng

RT: 6.39 min Scan# 394

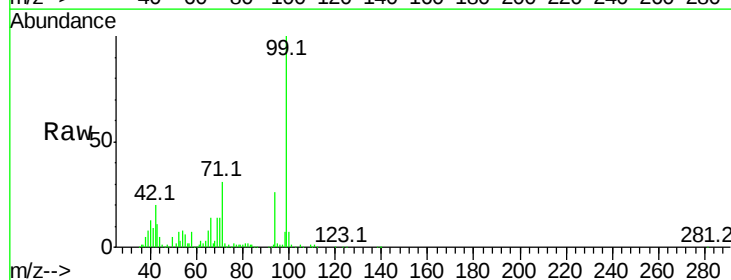
Delta R.T. -0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Tgt Ion: 94 Resp: 135915

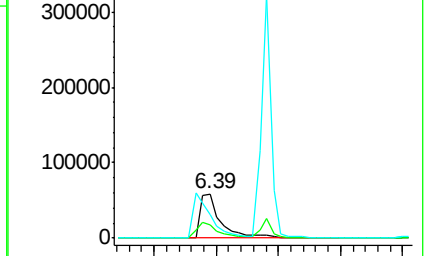
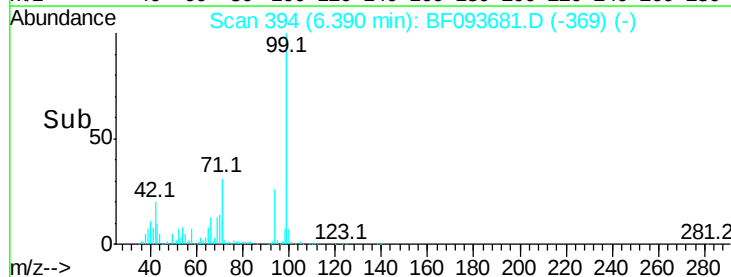
Ion	Ratio	Lower	Upper
94	100		
65	29.8	21.4	61.4
66	51.5	44.0	84.0

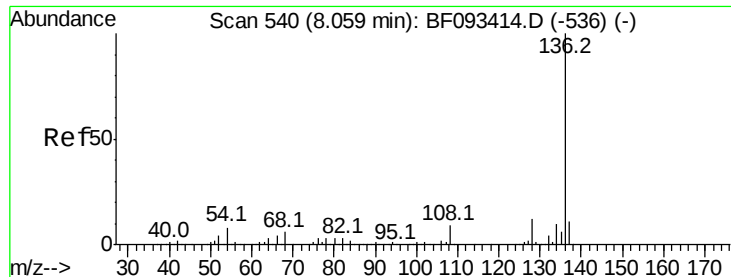


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

Tot Ion:136 Resp: 631175

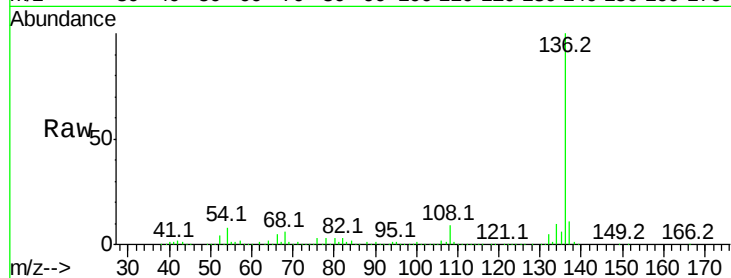
Ion Ratio Lower Upper

136 100

137 10.7 8.4 12.6

54 8.0 4.5 6.7#

68 6.0 3.6 5.4#

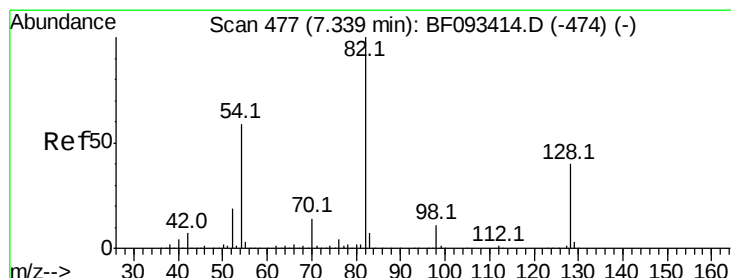
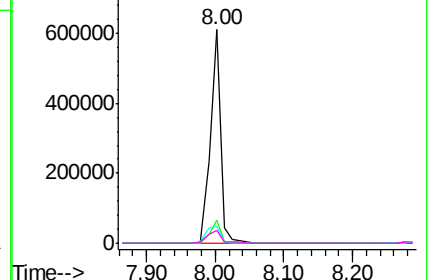
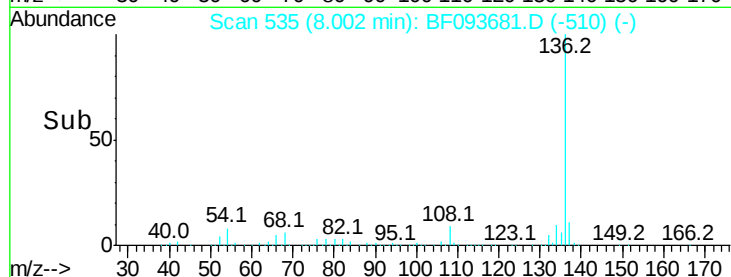


Abundance Ion 136.00 (135.70 to 136.70): E

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: 83.16 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.02 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

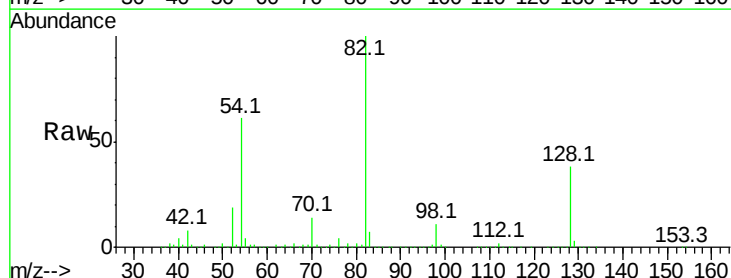
Tgt Ion: 82 Resp: 946030

Ion Ratio Lower Upper

82 100

128 37.6 34.6 52.0

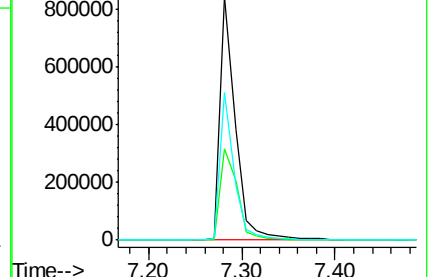
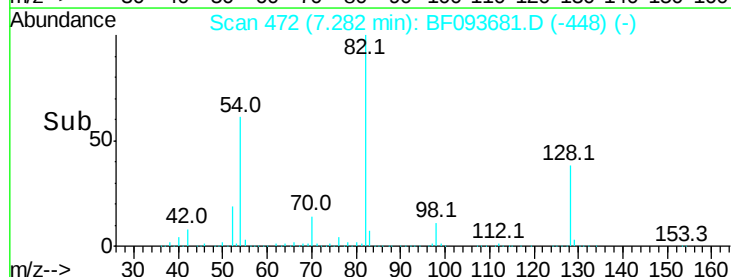
54 60.8 39.5 59.3#

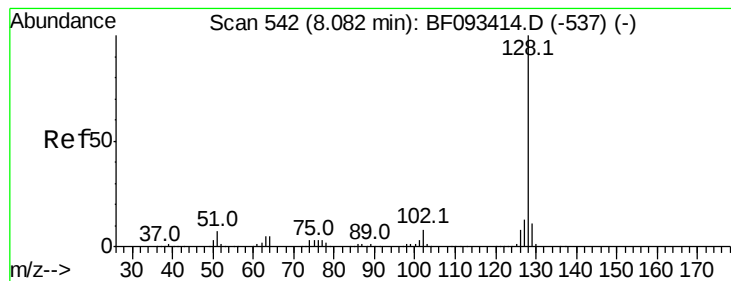


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.87 ng

RT: 8.02 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

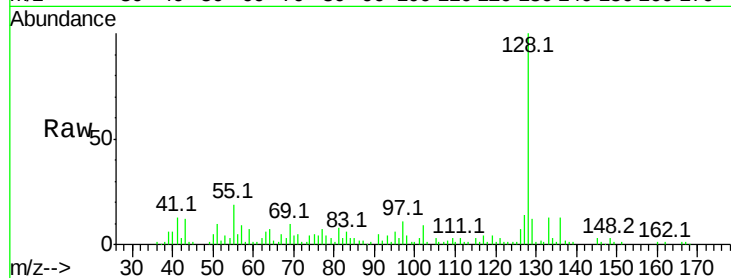
Tot Ion:128 Resp: 90709

Ion Ratio Lower Upper

128 100

129 11.9 9.5 14.3

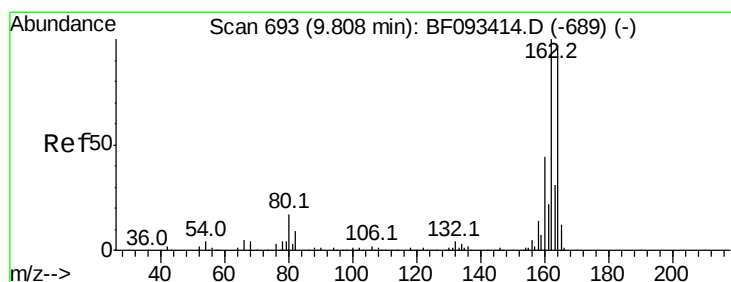
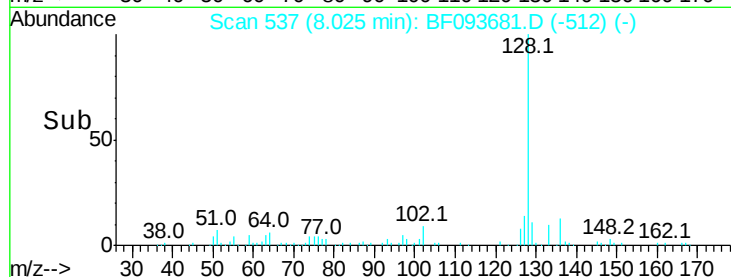
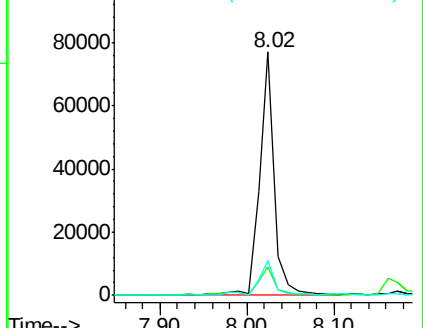
127 14.4 10.8 16.2



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

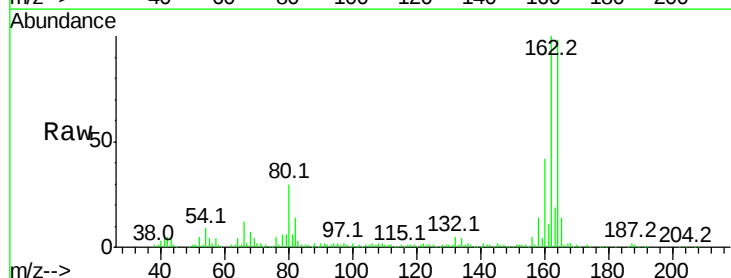
Tgt Ion:164 Resp: 236851

Ion Ratio Lower Upper

164 100

162 102.3 80.2 120.2

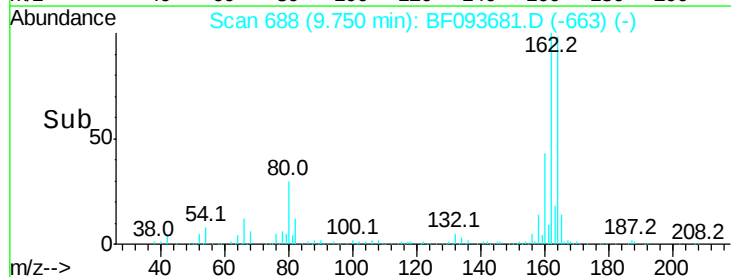
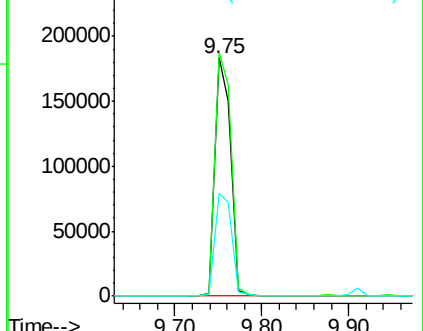
160 43.2 36.9 55.3

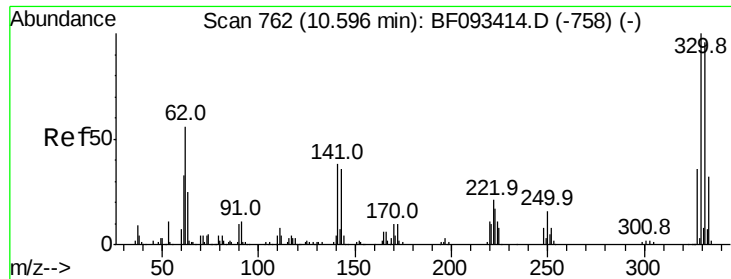


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

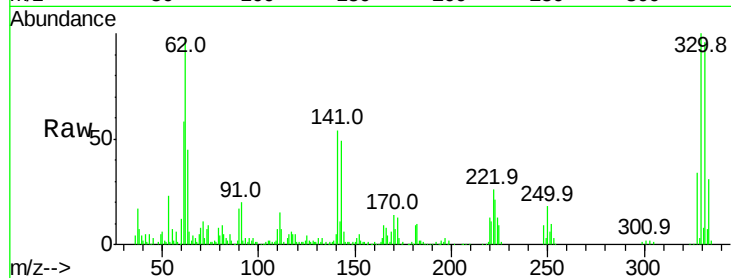




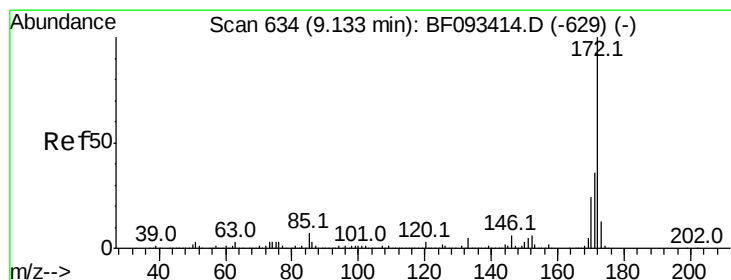
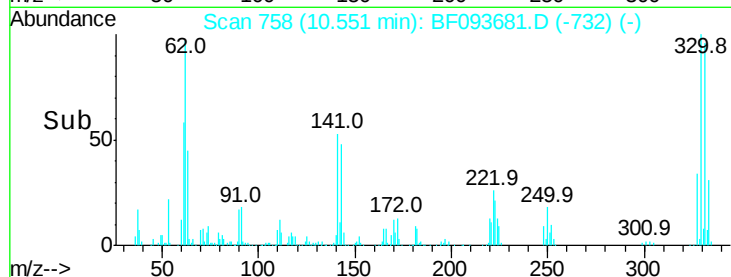
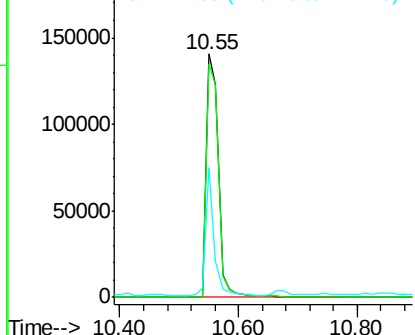
#41
 2,4,6-Tribromophenol
 Concen: 130.55 ng
 RT: 10.55 min Scan# 758
 Delta R.T. -0.00 min
 Lab File: BF093681.D
 Acq: 15 Mar 2017 21:21

Instrument :
 BNA_F
 ClientSampleId :
 E2-BB6-SSW

Tot Ion:330 Resp: 201453
 Ion Ratio Lower Upper
 330 100
 332 97.3 77.4 116.2
 141 36.8 34.1 51.1

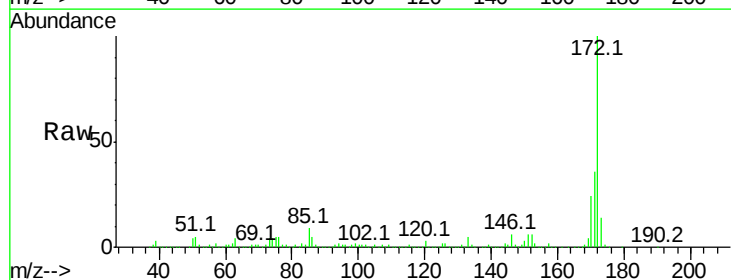


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

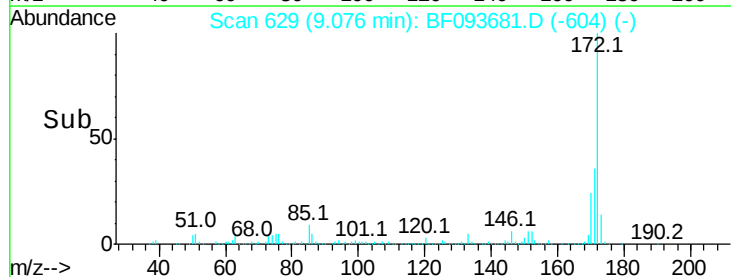
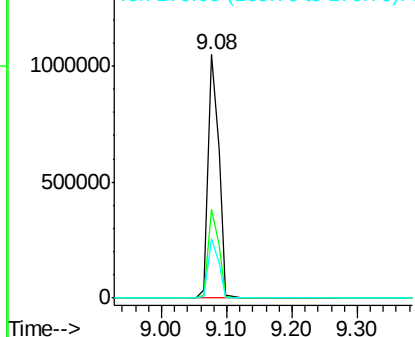


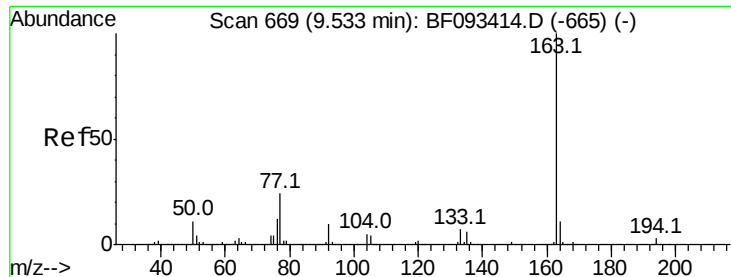
#44
 2-Fluorobiphenyl
 Concen: 94.76 ng
 RT: 9.08 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF093681.D
 Acq: 15 Mar 2017 21:21

Tgt Ion:172 Resp: 1206587
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.4 44.0
 170 24.3 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

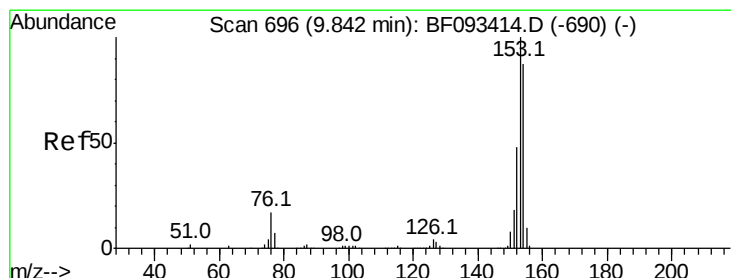
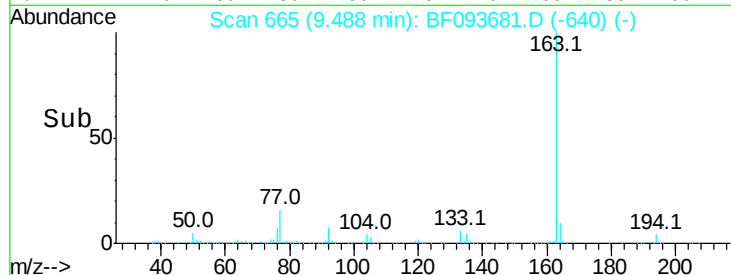
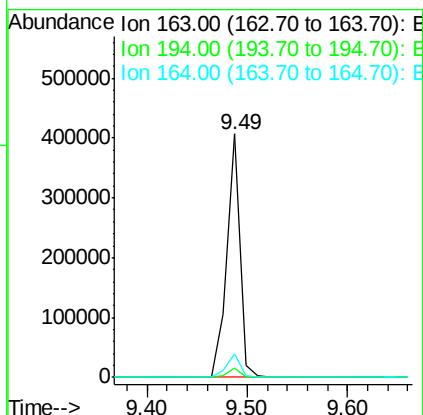
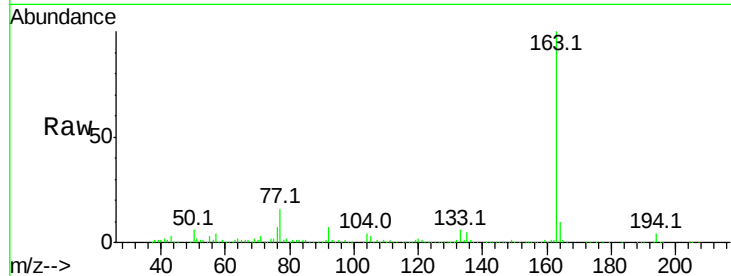




#49
Dimethylphthalate
Concen: 23.52 ng
RT: 9.49 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

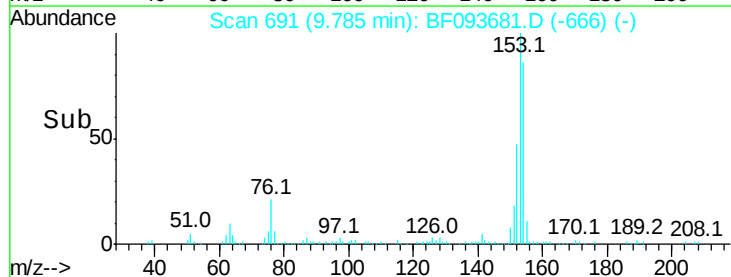
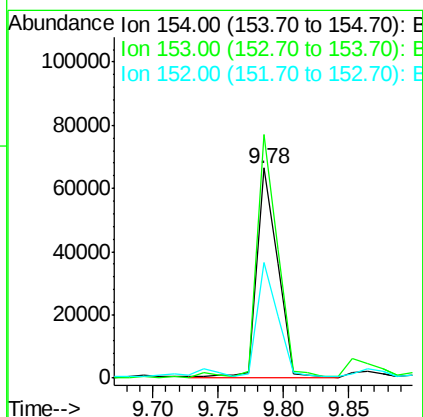
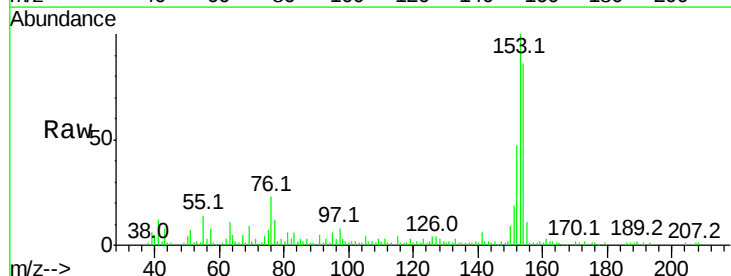
Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

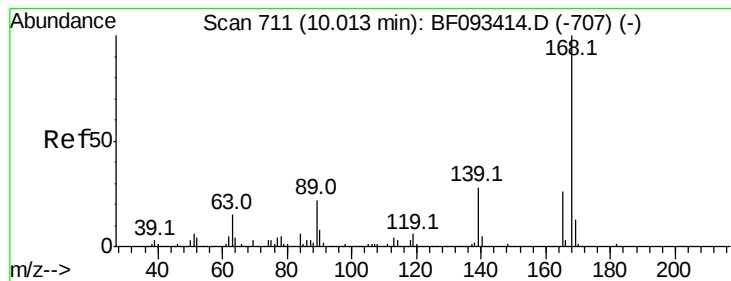
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	9.7	8.0	12.0



#51
Acenaphthene
Concen: 5.72 ng
RT: 9.78 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.8	88.6	133.0
152	54.7	41.6	62.4





#54

Dibenzofuran

Concen: 3.11 ng

RT: 9.97 min Scan# 707

Delta R.T. -0.00 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

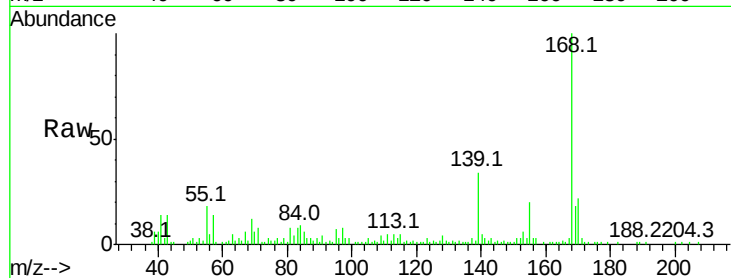
Tot Ion:168 Resp: 50084

Ion Ratio Lower Upper

168 100

139 33.8 32.6 49.0

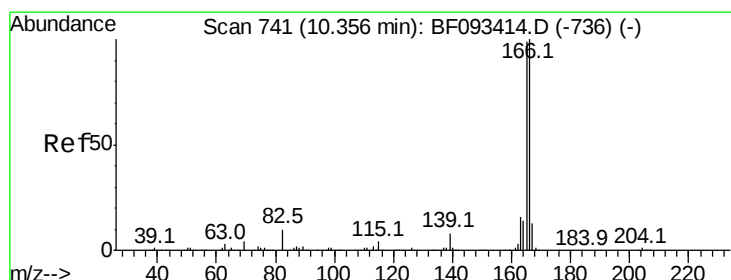
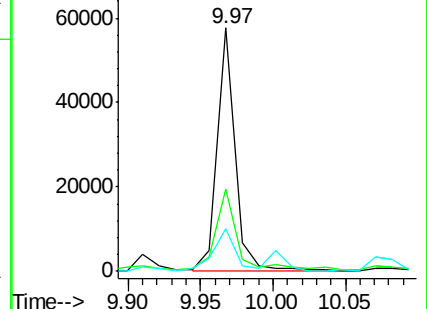
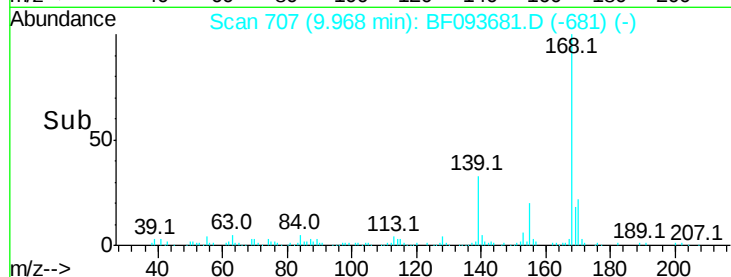
169 17.8 11.3 16.9#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 5.30 ng

RT: 10.31 min Scan# 737

Delta R.T. -0.00 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

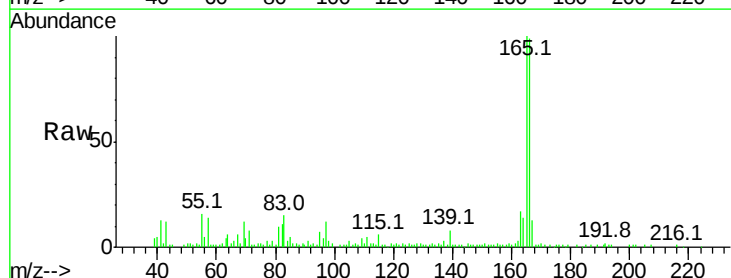
Tgt Ion:166 Resp: 72338

Ion Ratio Lower Upper

166 100

165 100.6 77.8 116.8

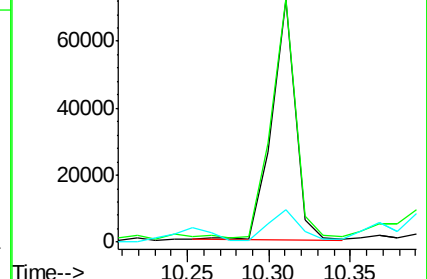
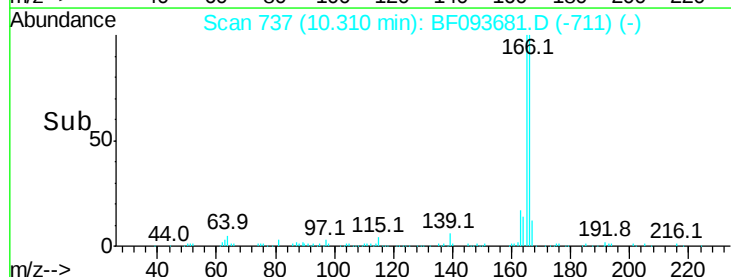
167 13.3 10.8 16.2

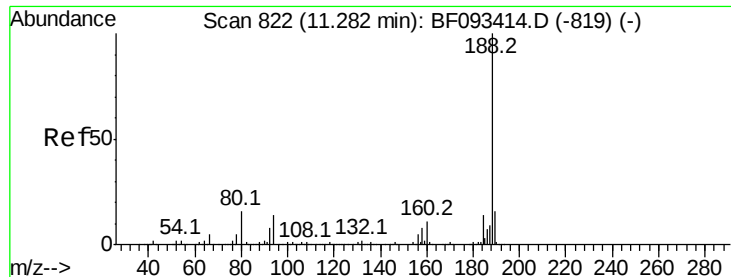


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

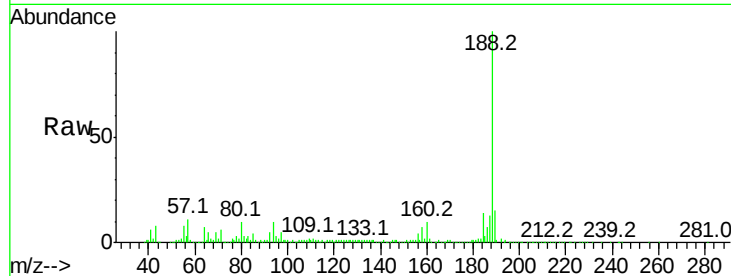




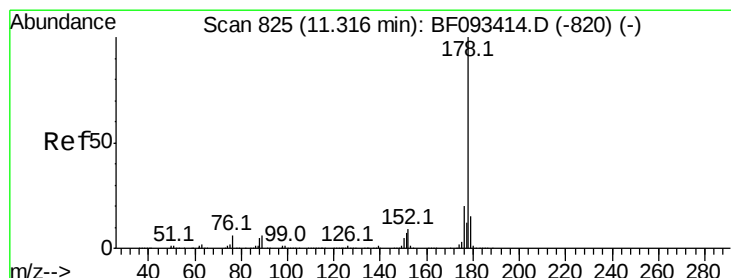
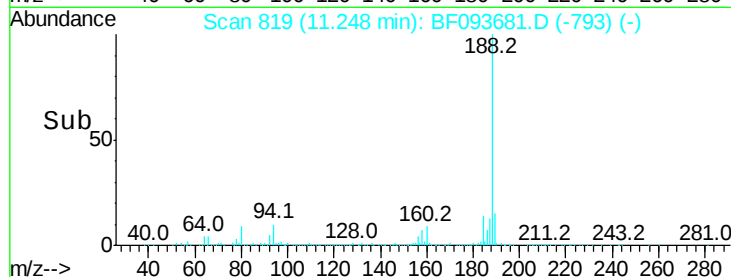
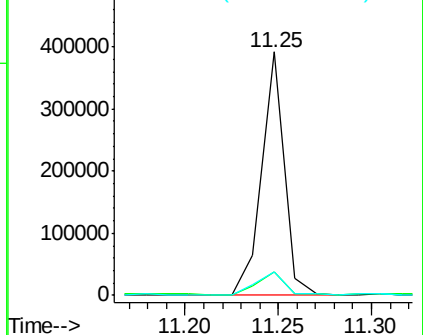
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 819
Delta R.T. -0.00 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

Tot Ion:188 Resp: 334860
Ion Ratio Lower Upper
188 100
94 9.9 10.0 15.0#
80 9.5 11.2 16.8#

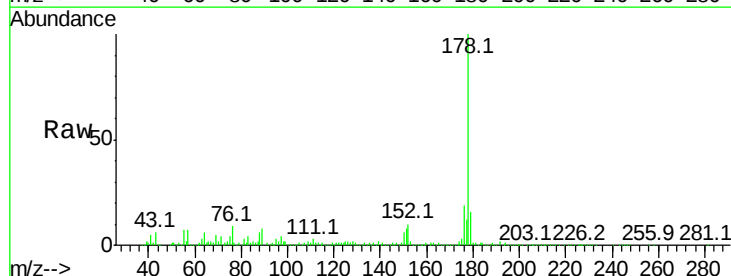


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

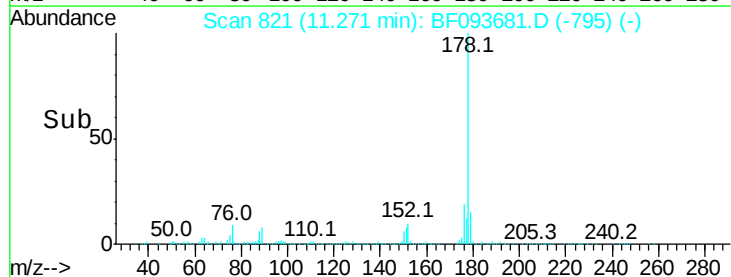
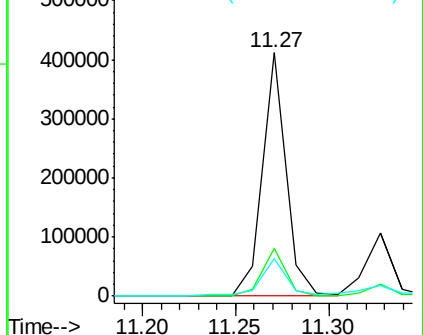


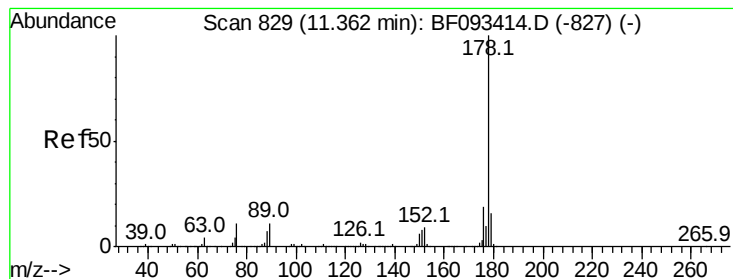
#70
Phenanthrene
Concen: 18.64 ng
RT: 11.27 min Scan# 821
Delta R.T. -0.00 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion:178 Resp: 356310
Ion Ratio Lower Upper
178 100
176 19.5 16.6 25.0
179 15.6 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





#71

Anthracene

Concen: 5.42 ng

RT: 11.33 min Scan# 826

Delta R.T. 0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

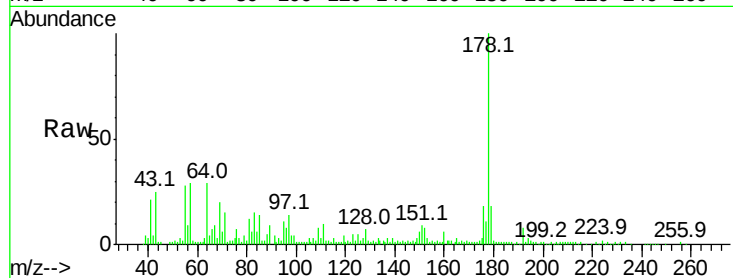
Tot Ion:178 Resp: 104824

Ion Ratio Lower Upper

178 100

176 18.0 15.9 23.9

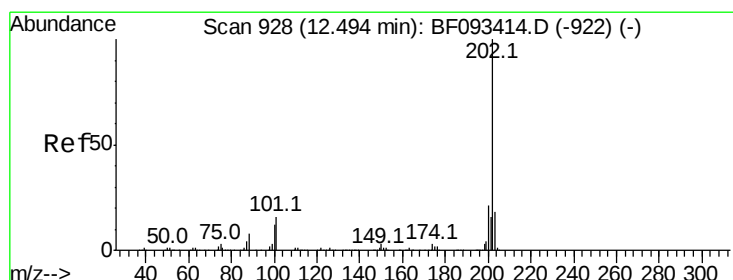
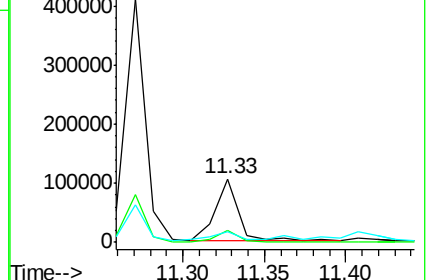
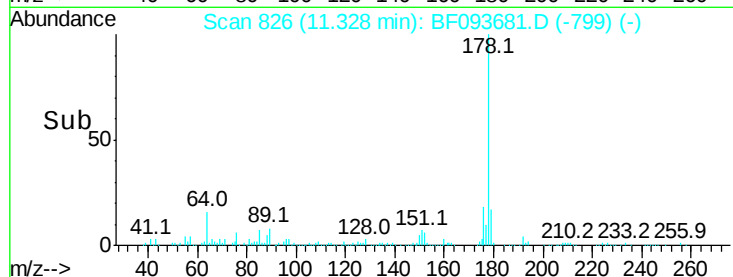
179 17.7 13.2 19.8



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: 23.62 ng

RT: 12.47 min Scan# 926

Delta R.T. 0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

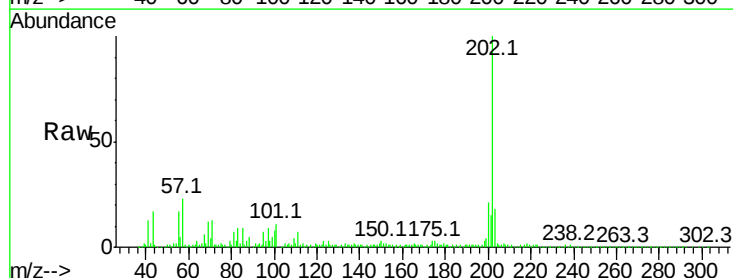
Tgt Ion:202 Resp: 436161

Ion Ratio Lower Upper

202 100

101 10.8 0.0 34.6

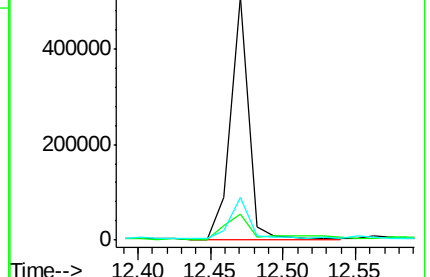
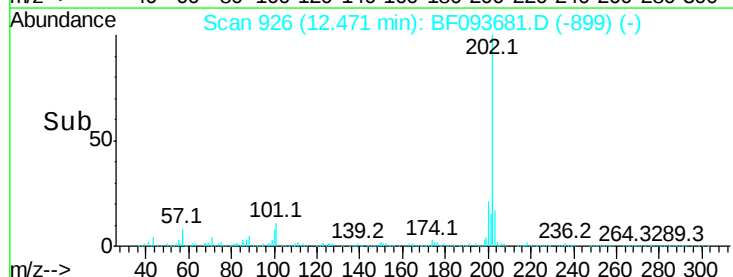
203 17.7 0.0 38.7

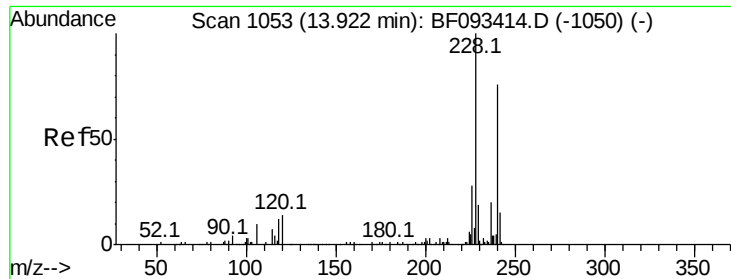


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

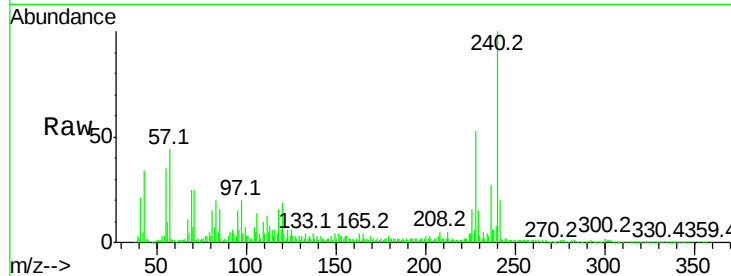




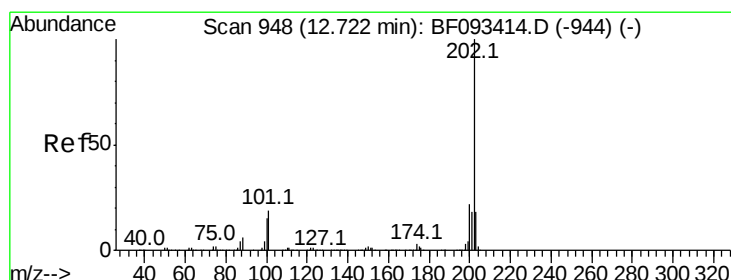
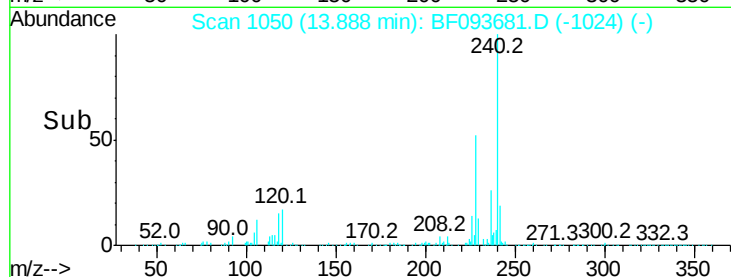
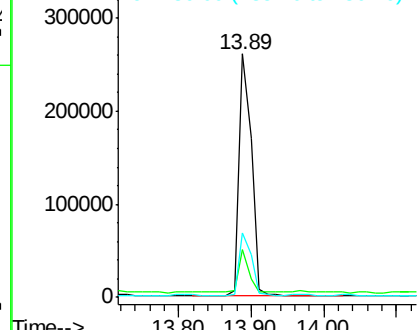
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.89 min Scan# 1050
Delta R.T. -0.00 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

Tot Ion:240 Resp: 309436
Ion Ratio Lower Upper
240 100
120 19.4 12.9 19.3#
236 26.7 20.9 31.3

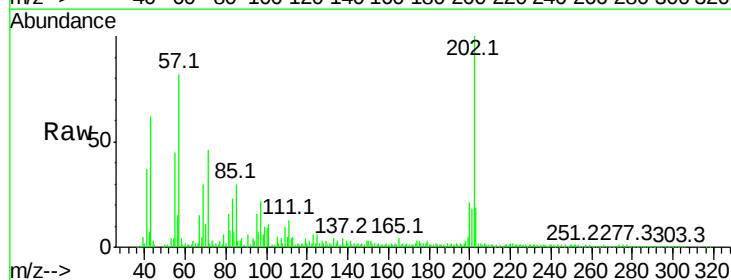


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

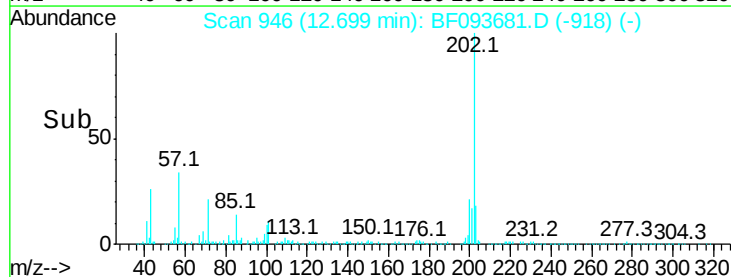
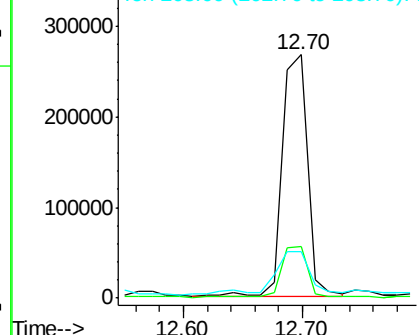


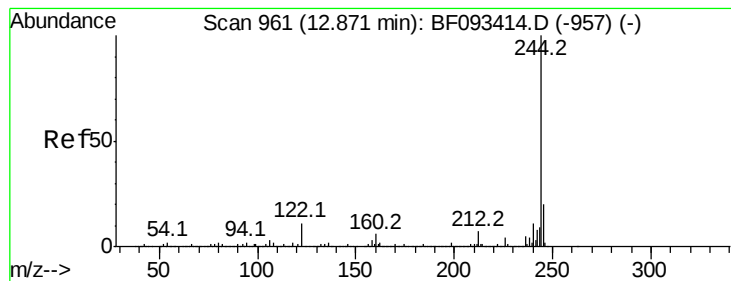
#77
Pyrene
Concen: 17.19 ng
RT: 12.70 min Scan# 946
Delta R.T. 0.02 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion:202 Resp: 386831
Ion Ratio Lower Upper
202 100
200 21.3 17.7 26.5
203 19.3 14.7 22.1



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: 65.10 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

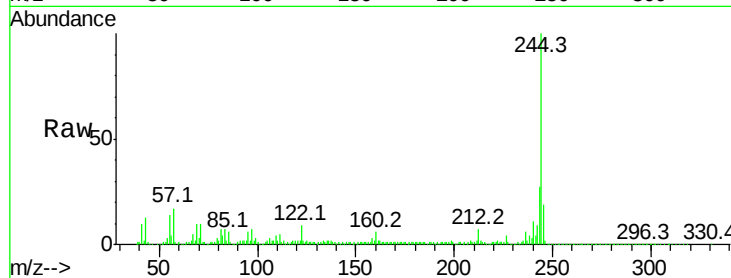
Tot Ion:244 Resp: 774752

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

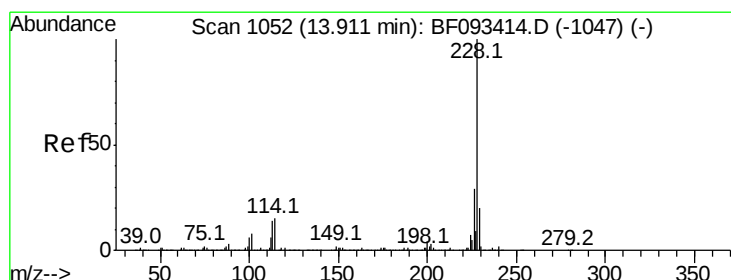
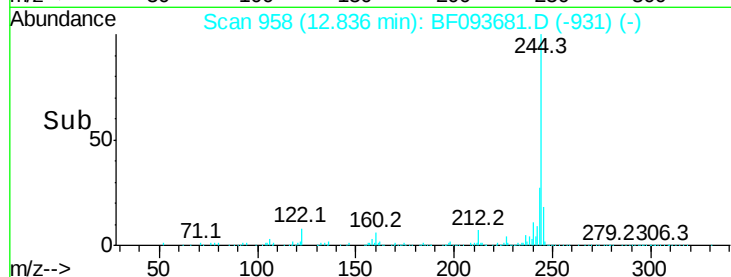
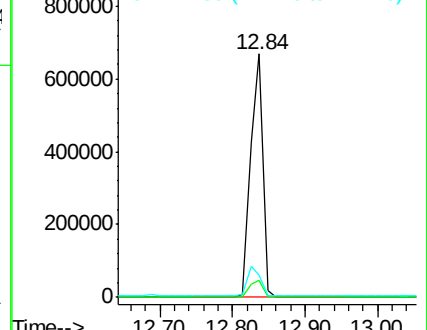
122 8.9 11.4 17.2#



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: 12.15 ng

RT: 13.89 min Scan# 1050

Delta R.T. 0.02 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

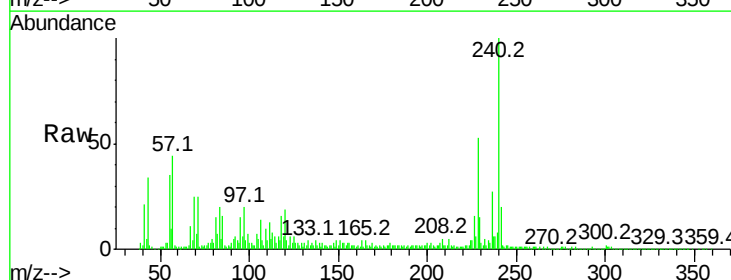
Tgt Ion:228 Resp: 222057

Ion Ratio Lower Upper

228 100

226 29.6 22.4 33.6

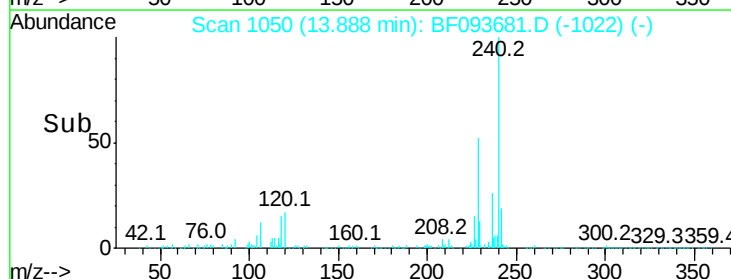
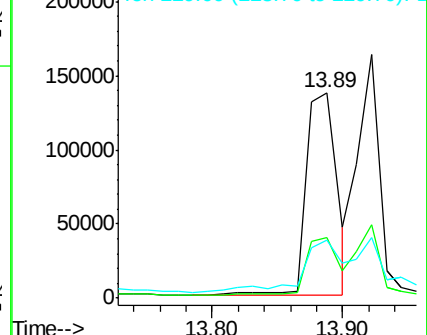
229 28.0 16.2 24.4#

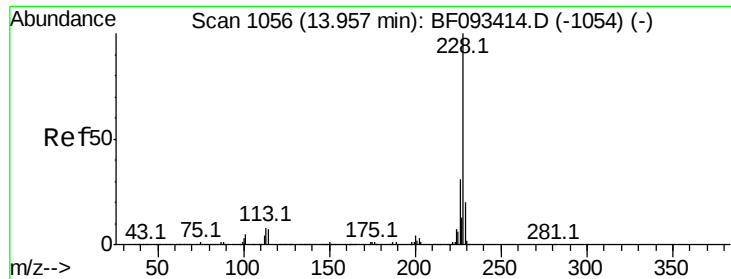


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.31 ng/mL

RT: 13.92 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleID :

E2-BB6-SSW

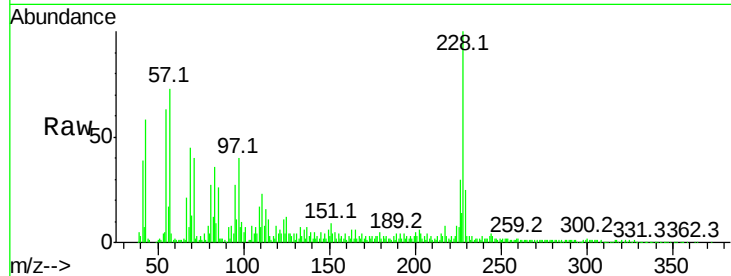
Tot Ion: 228 Resp: 191221

Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.0

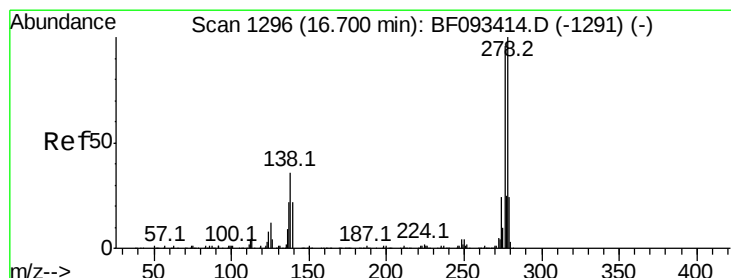
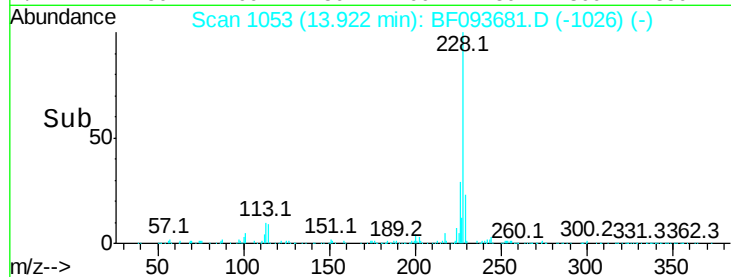
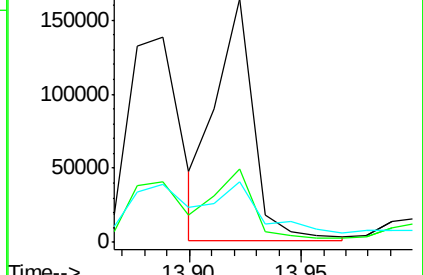
229 24.9 16.2 24.2#



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.79 ng/mL

RT: 16.67 min Scan# 1293

Delta R.T. 0.05 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

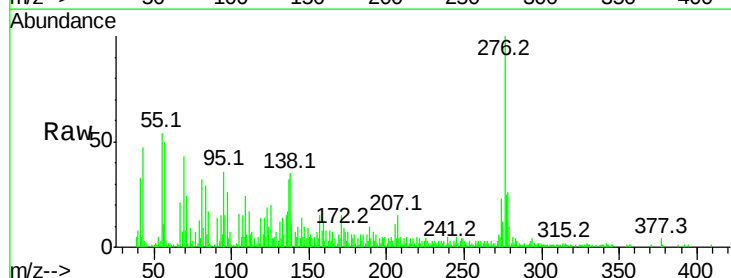
Tgt Ion: 276 Resp: 96071

Ion Ratio Lower Upper

276 100

138 32.6 21.8 32.6

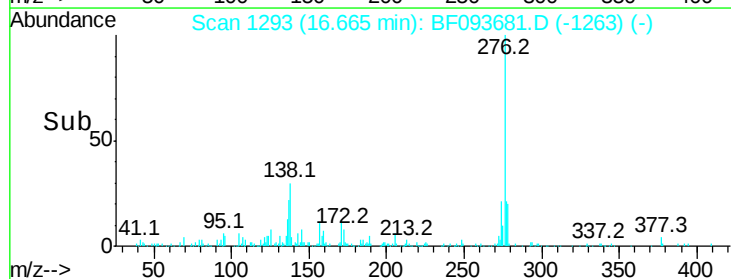
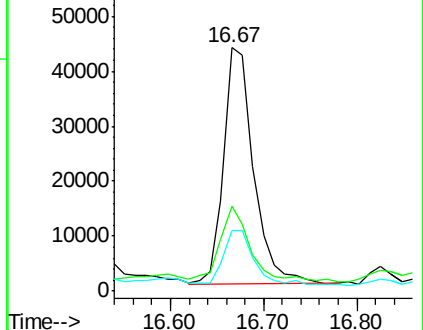
277 23.3 20.2 30.4

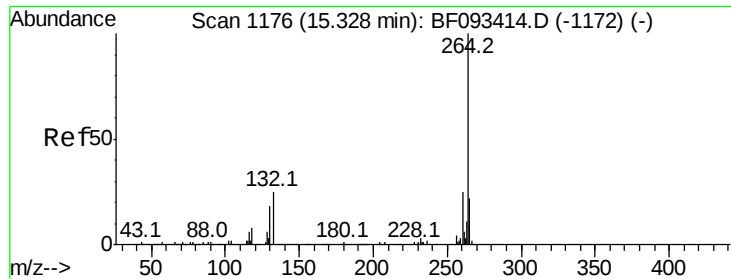


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

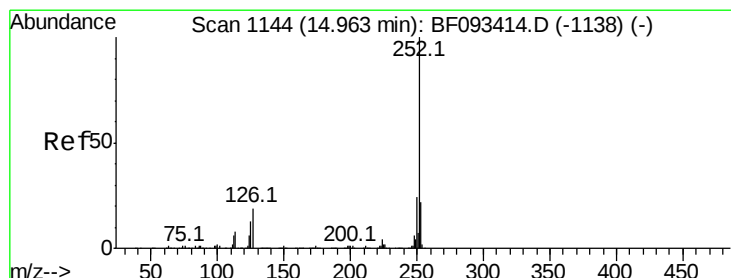
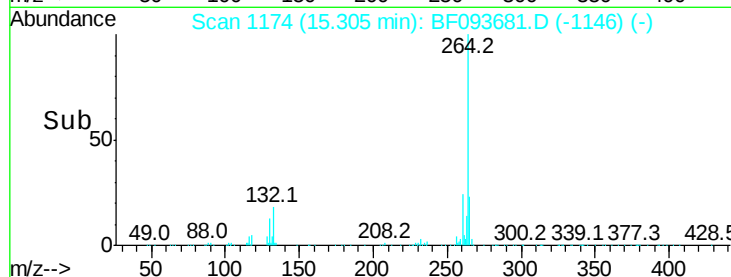
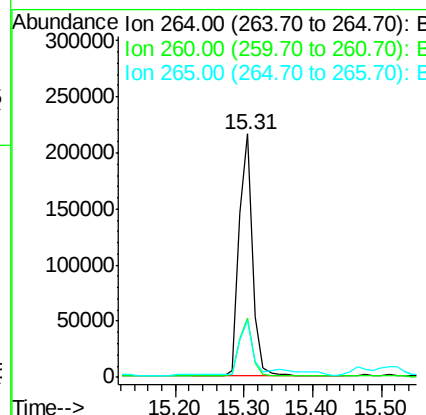
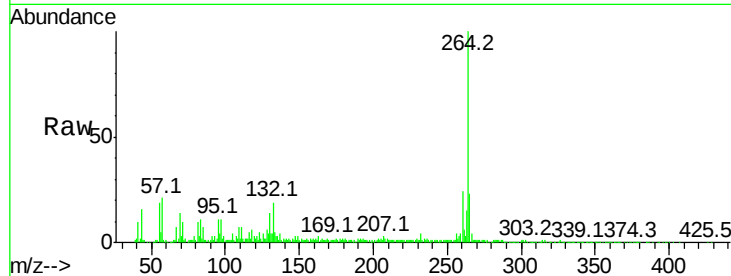




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1174
Delta R.T. 0.02 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

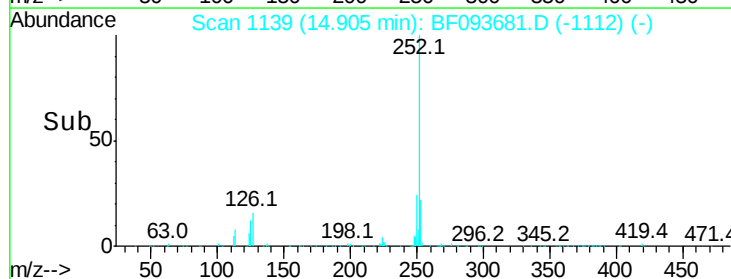
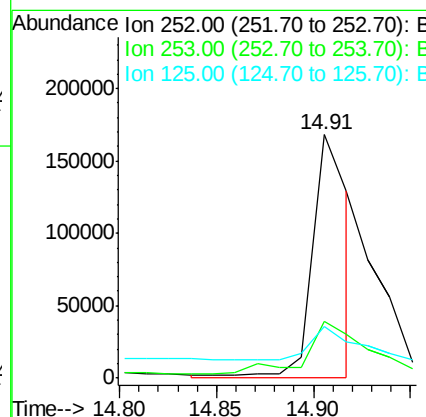
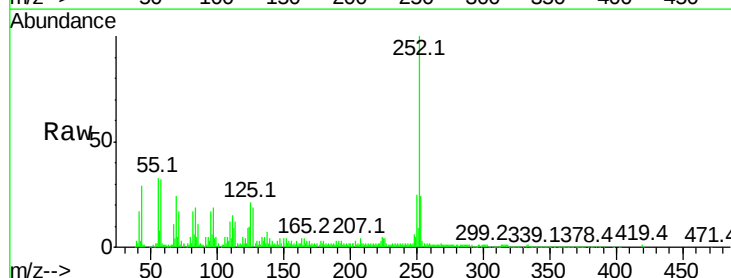
Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

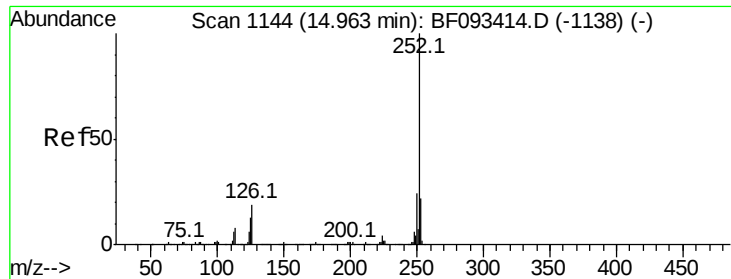
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	23.5	17.4	26.0



#87
Benzo(b)fluoranthene
Concen: 12.09 ng m
RT: 14.91 min Scan# 1139
Delta R.T. 0.01 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	21.1	9.8	14.6

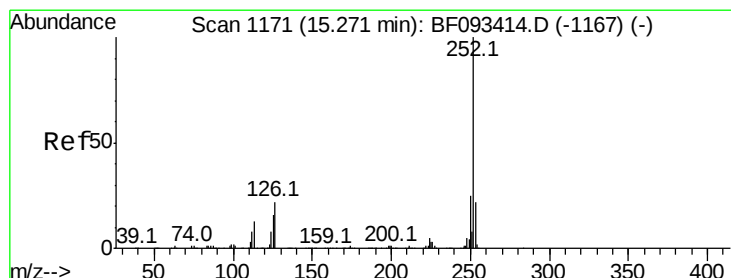
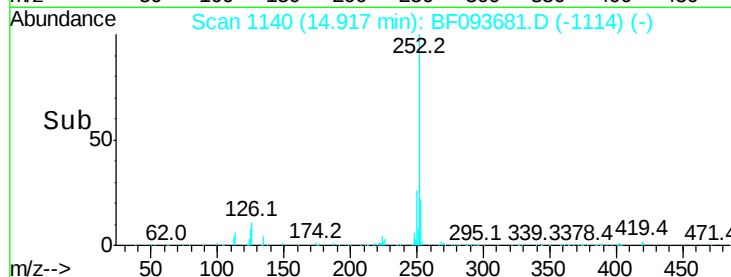
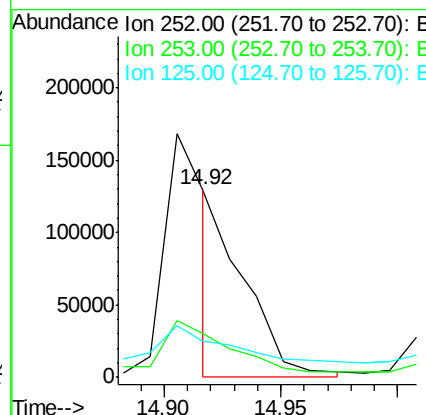
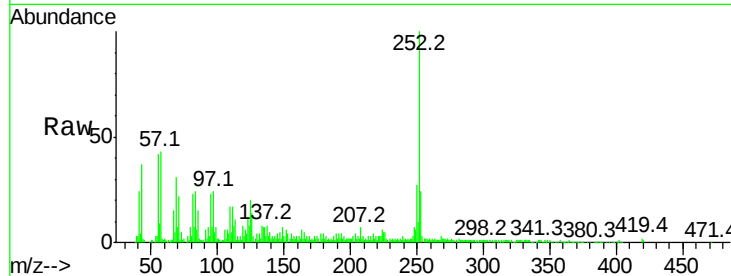




#88
Benzo(k)fluoranthene
Concen: 6.10 ng/ml
RT: 14.92 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

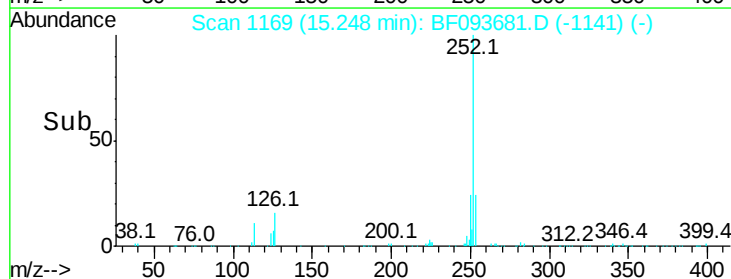
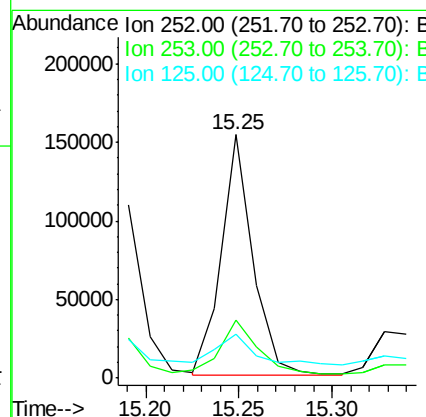
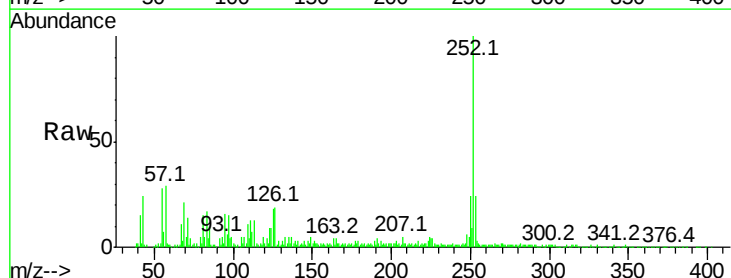
Instrument :
BNA_F
ClientSampleId :
E2-BB6-SSW

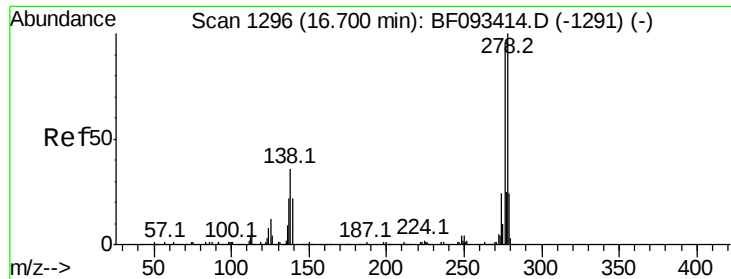
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.5	27.7
125	19.5	8.9	13.3



#89
Benzo(a)pyrene
Concen: 10.84 ng/ml
RT: 15.25 min Scan# 1169
Delta R.T. 0.02 min
Lab File: BF093681.D
Acq: 15 Mar 2017 21:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	17.9	10.0	15.0





#90

Dibenzo(a,h)anthracene

Concen: 2.04 ng/mL

RT: 16.67 min Scan# 1293

Delta R.T. 0.05 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

Instrument :

BNA_F

ClientSampleId :

E2-BB6-SSW

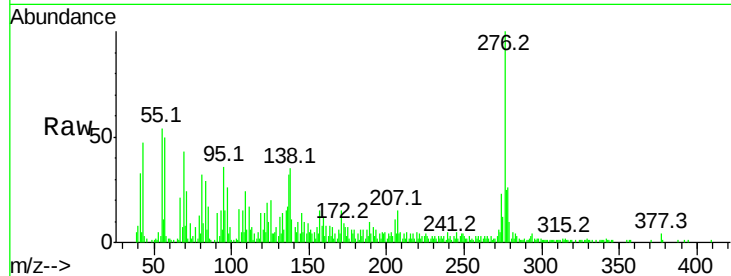
Tot Ion:278 Resp: 28124

Ion Ratio Lower Upper

278 100

139 41.6 14.8 22.2#

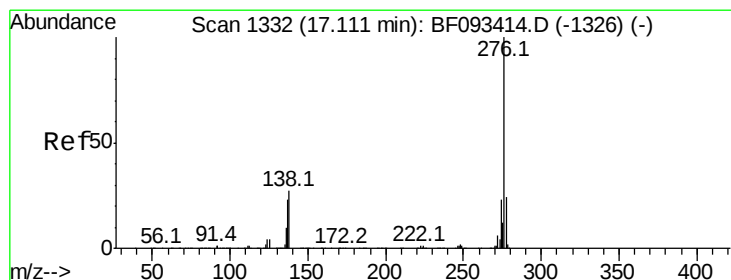
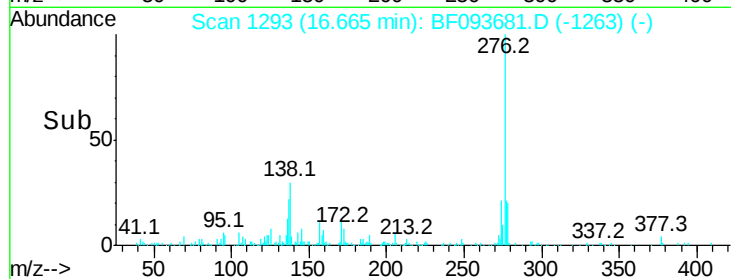
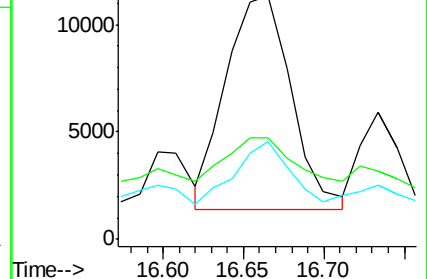
279 40.2 19.8 29.6#



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: 7.10 ng/mL

RT: 17.08 min Scan# 1329

Delta R.T. 0.06 min

Lab File: BF093681.D

Acq: 15 Mar 2017 21:21

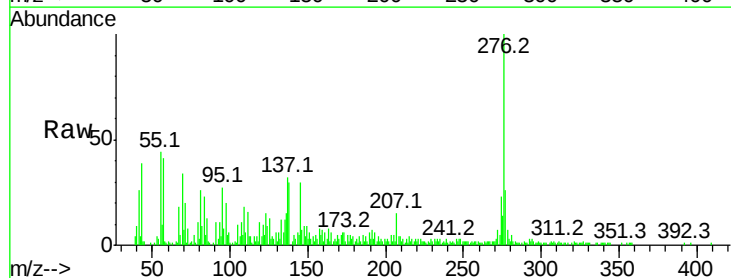
Tgt Ion:276 Resp: 100751

Ion Ratio Lower Upper

276 100

277 26.4 19.2 28.8

138 30.0 16.0 24.0#



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

