

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050117\
 Data File : BF094783.D
 Acq On : 2 May 2017 7:18
 Operator : SJ/MA
 Sample : I2892-07
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OWS-S(4.5-5)

Quant Time: May 02 18:25:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

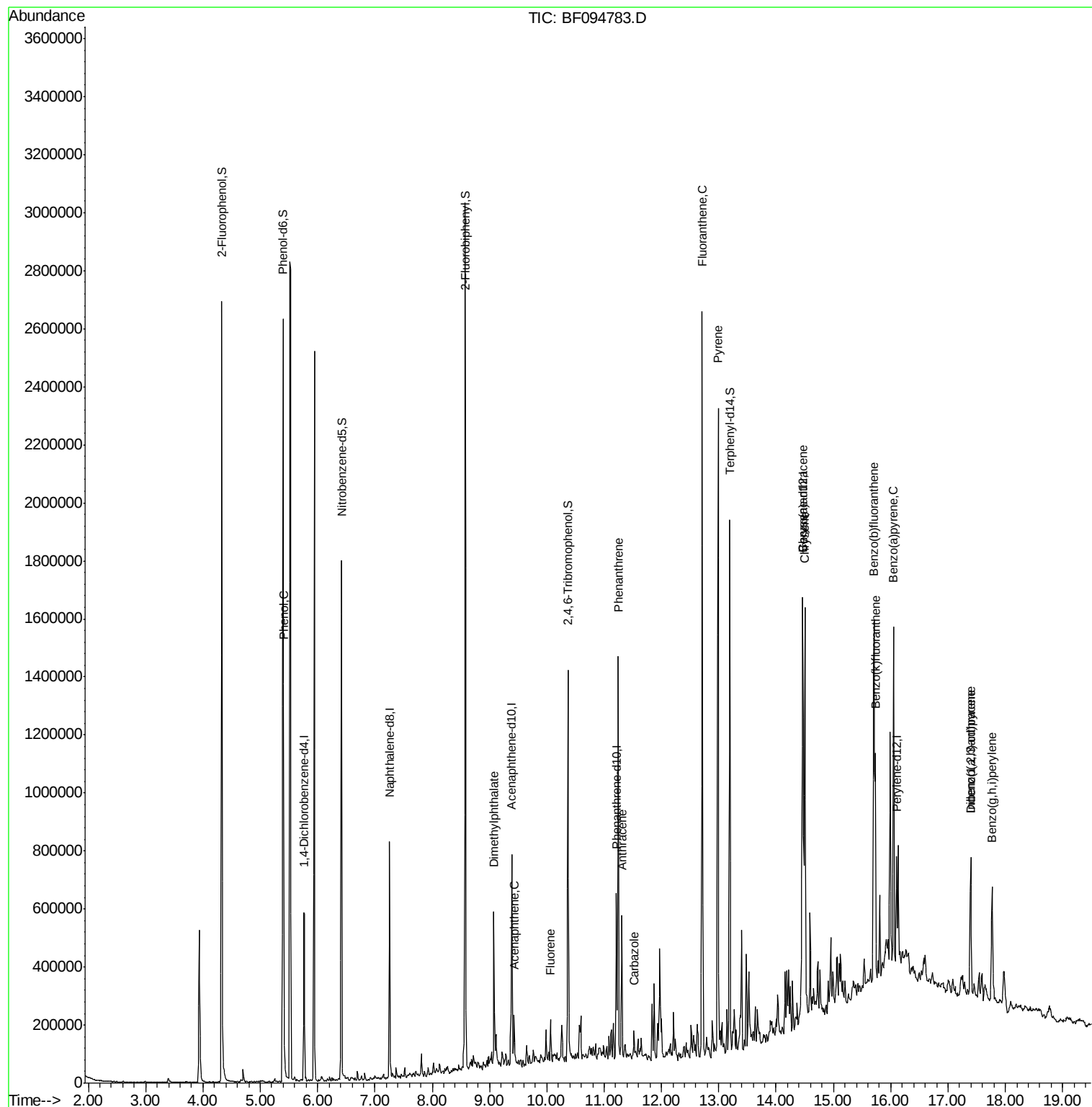
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	100249	20.00	ng	0.00
21) Naphthalene-d8	7.25	136	379532	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	156885	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	228797	20.00	ng	0.00
75) Chrysene-d12	14.47	240	190351	20.00	ng	0.00
86) Perylene-d12	16.10	264	157329	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	919517	152.17	ng	0.03
7) Phenol-d6	5.40	99	1113564	156.32	ng	0.00
23) Nitrobenzene-d5	6.42	82	663272	107.91	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	171307	139.60	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	1025996	96.22	ng	0.00
78) Terphenyl-d14	13.20	244	654309	91.88	ng	0.00
Target Compounds						Qvalue
10) Phenol	5.41	94	28912	3.30	ng	94
49) Dimethylphthalate	9.08	163	262837	22.48	ng	100
51) Acenaphthene	9.43	154	38359	4.03	ng	93
57) Fluorene	10.07	166	38238	3.55	ng	98
70) Phenanthrene	11.24	178	624196	48.45	ng	99
71) Anthracene	11.31	178	202571	15.20	ng	98
72) Carbazole	11.52	167	45965	3.67	ng	96
74) Fluoranthene	12.71	202	1321854	98.99	ng	99
77) Pyrene	12.99	202	1157973	87.07	ng	99
80) Benzo(a)anthracene	14.46	228	658628	59.53	ng	100
82) Chrysene	14.51	228	625673m	61.88	ng	
85) Indeno(1,2,3-cd)pyrene	17.39	276	278522m	28.95	ng	
87) Benzo(b)fluoranthene	15.71	252	681932m	70.86	ng	
88) Benzo(k)fluoranthene	15.73	252	278566m	30.59	ng	
89) Benzo(a)pyrene	16.05	252	527922	58.96	ng	97
90) Dibenzo(a,h)anthracene	17.39	278	65275m	8.78	ng	
91) Benzo(g,h,i)perylene	17.77	276	286968	37.91	ng	96

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

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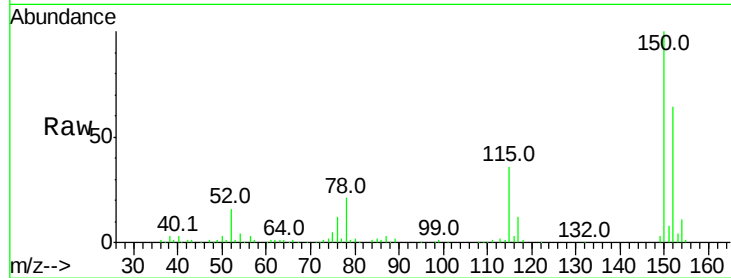


#1

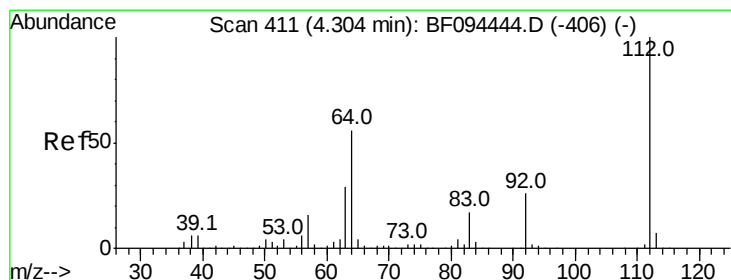
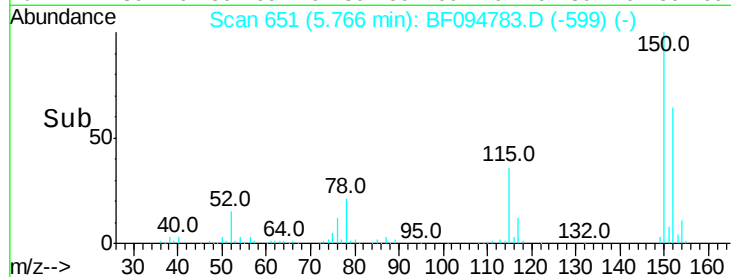
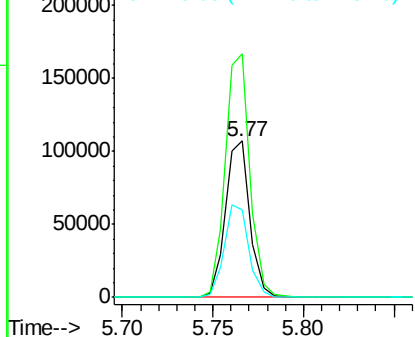
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 651
Delta R.T. 0.00 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Instrument :
BNA_F
ClientSampleId :
OWS-S(4.5-5)

Tot Ion:152 Resp: 100249
Ion Ratio Lower Upper
152 100
150 156.1 126.2 189.2
115 55.9 52.2 78.2



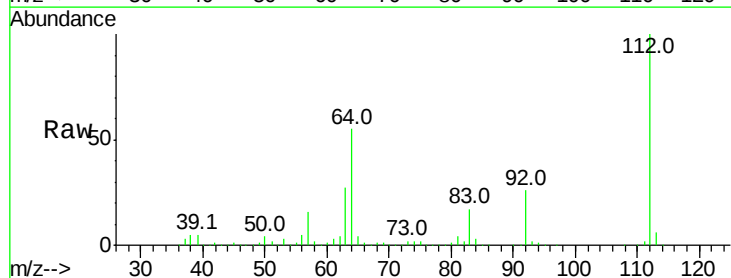
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



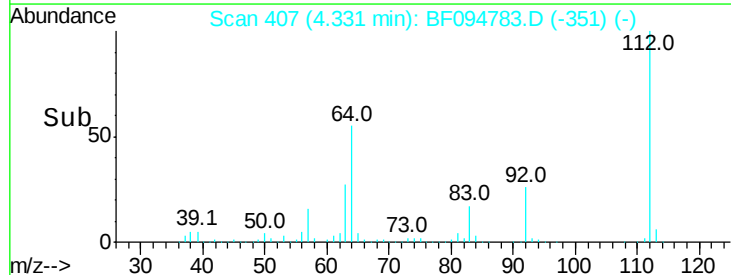
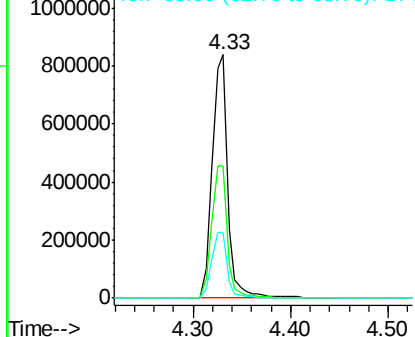
#5

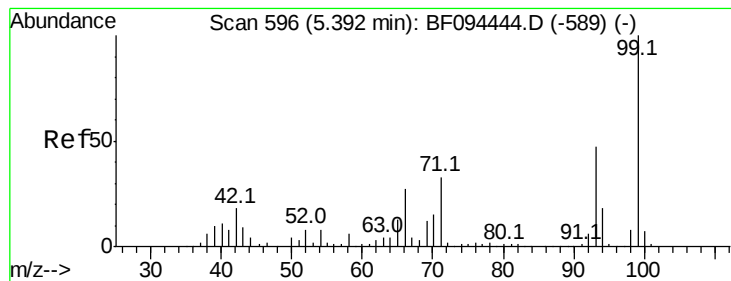
2-Fluorophenol
Concen: 152.17 ng
RT: 4.33 min Scan# 407
Delta R.T. 0.03 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Tgt Ion:112 Resp: 919517
Ion Ratio Lower Upper
112 100
64 54.5 46.0 69.0
63 27.0 23.4 35.0



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: 156.32 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

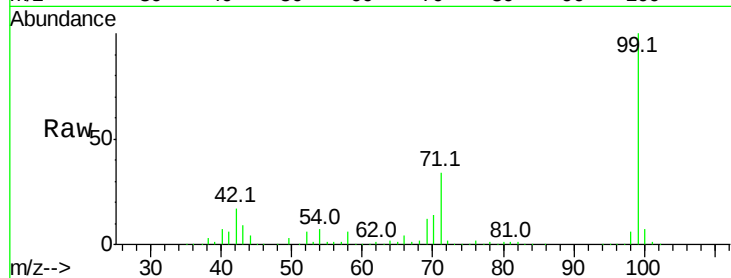
Tot Ion: 99 Resp: 1113564

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.5	20.3
71	34.2	24.5	36.7

99 100

42 17.1 13.5 20.3

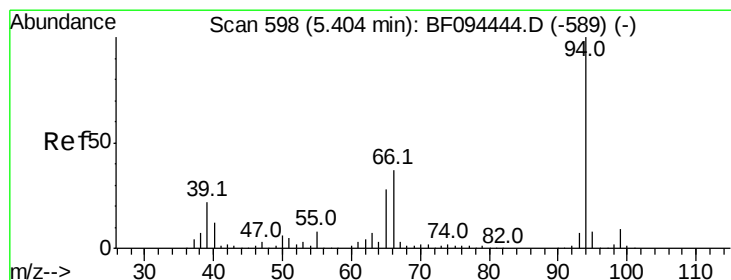
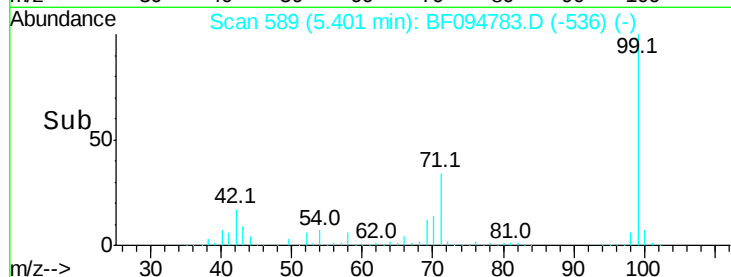
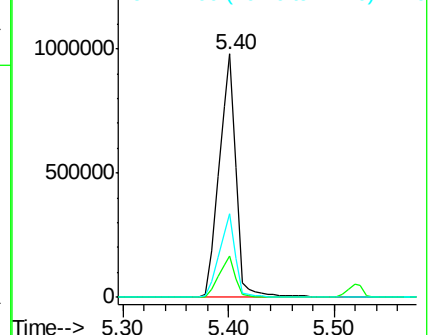
71 34.2 24.5 36.7



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: 3.30 ng

RT: 5.41 min Scan# 591

Delta R.T. 0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

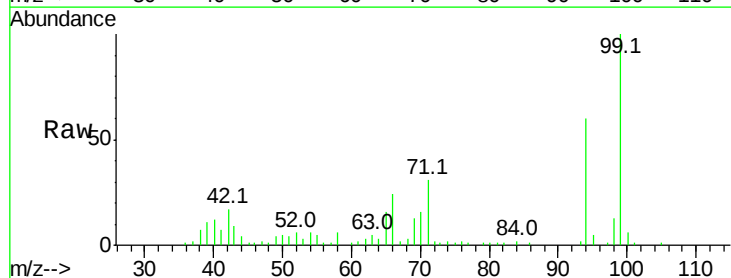
Tgt Ion: 94 Resp: 28912

Ion	Ratio	Lower	Upper
94	100		
65	26.6	9.9	49.9
66	39.7	23.1	63.1

94 100

65 26.6 9.9 49.9

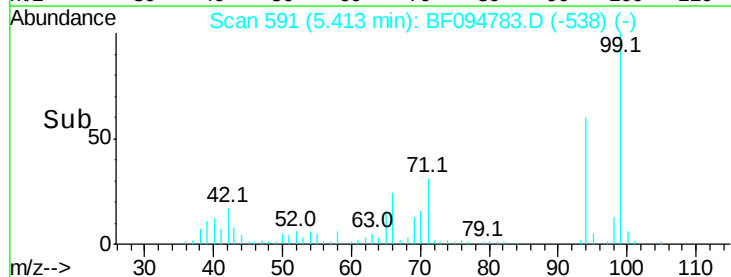
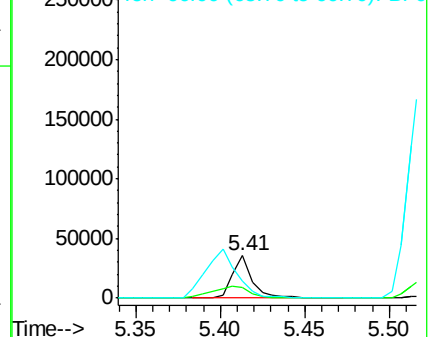
66 39.7 23.1 63.1

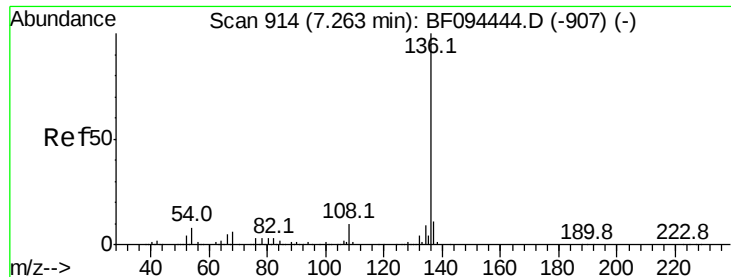


Abundance Ion 94.00 (93.70 to 94.70): BF0

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: 7.25 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

Tot Ion:136 Resp: 379532

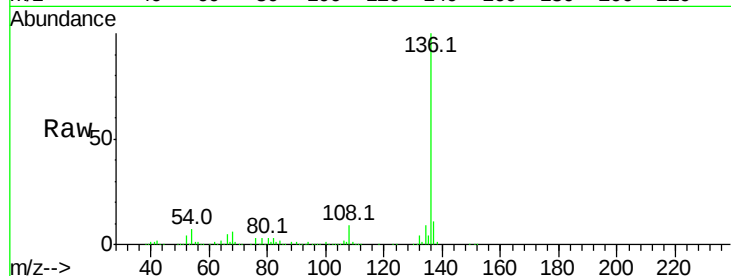
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 6.8 4.9 7.3

68 5.5 4.1 6.1

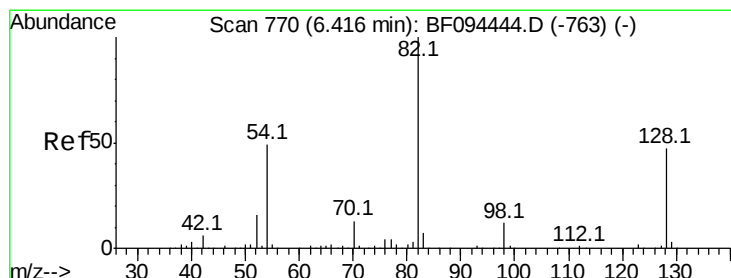
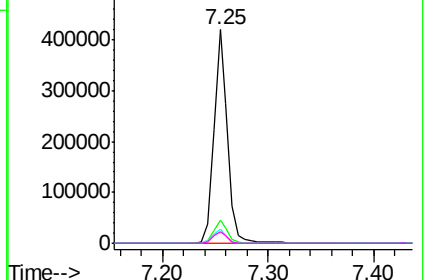
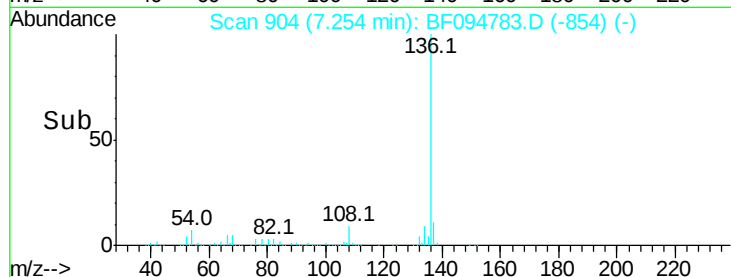


Abundance Ion 136.00 (135.70 to 136.70): E

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: 107.91 ng

RT: 6.42 min Scan# 762

Delta R.T. 0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

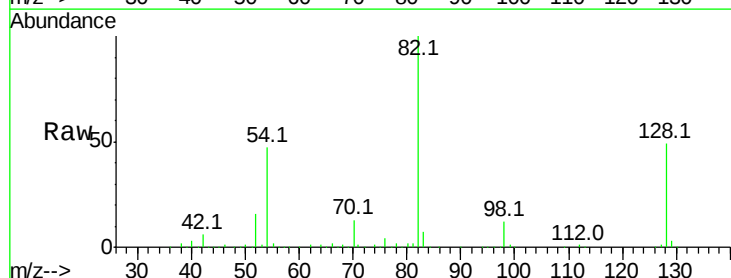
Tgt Ion: 82 Resp: 663272

Ion Ratio Lower Upper

82 100

128 49.0 34.0 51.0

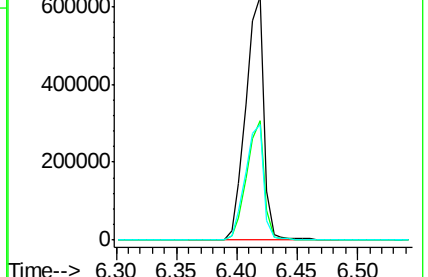
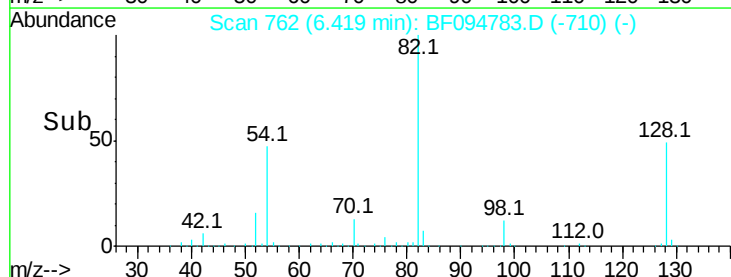
54 47.4 42.2 63.2

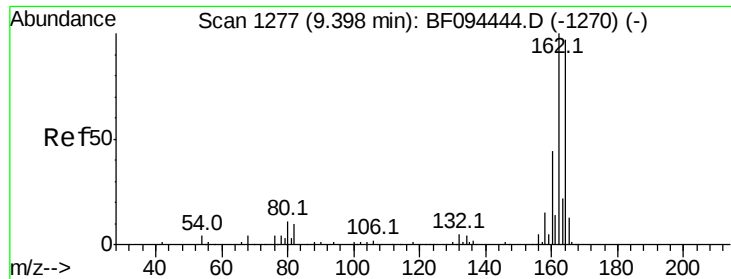


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.39 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

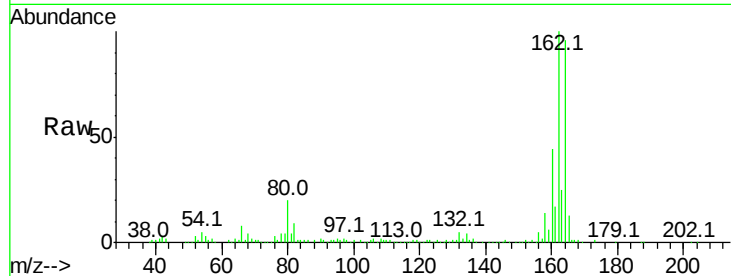
Tot Ion:164 Resp: 156885

Ion Ratio Lower Upper

164 100

162 103.7 82.6 123.8

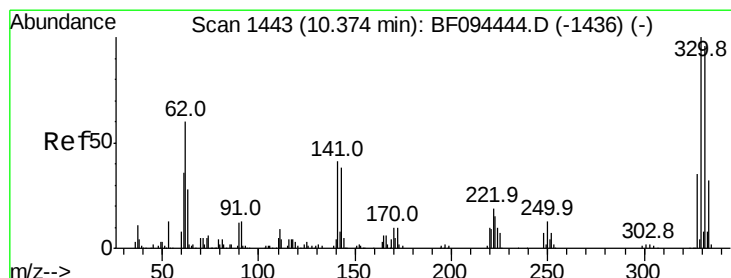
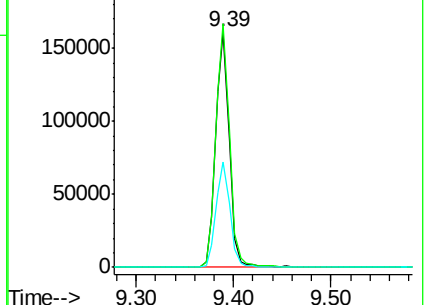
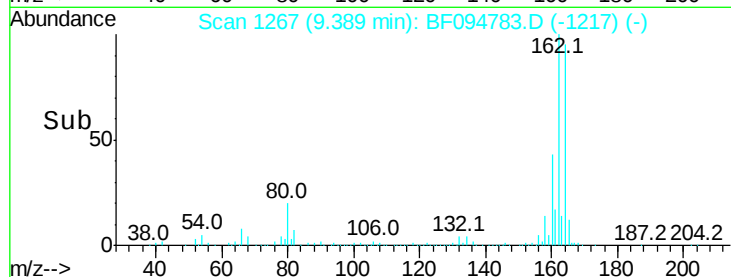
160 45.2 36.2 54.2



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: 139.60 ng

RT: 10.37 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

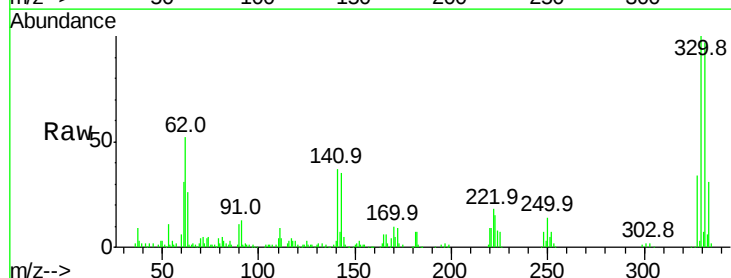
Tgt Ion:330 Resp: 171307

Ion Ratio Lower Upper

330 100

332 95.8 76.6 115.0

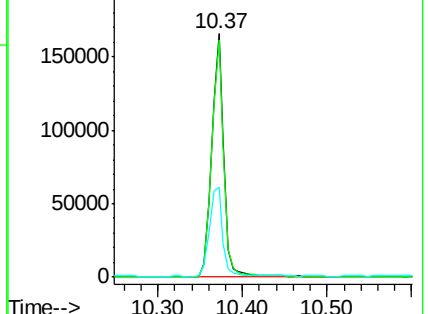
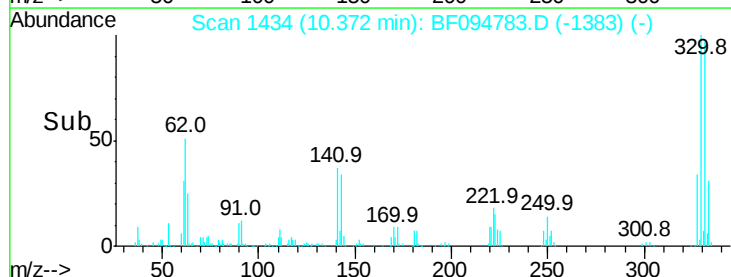
141 39.7 31.4 47.2

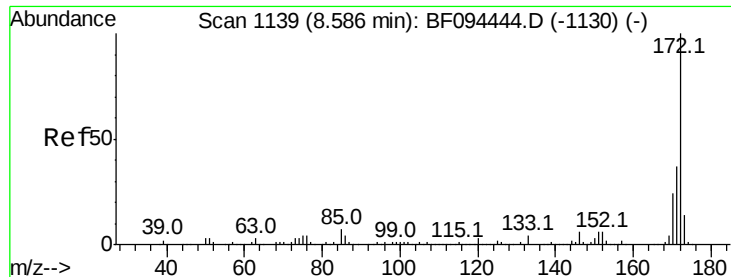


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

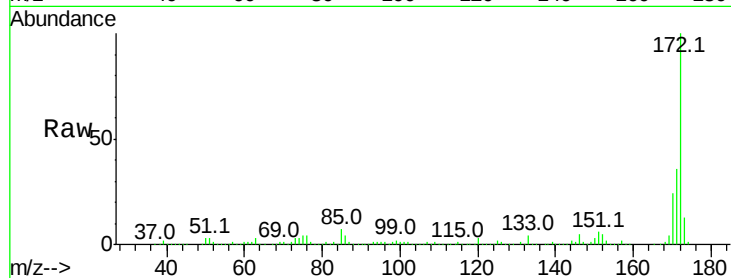




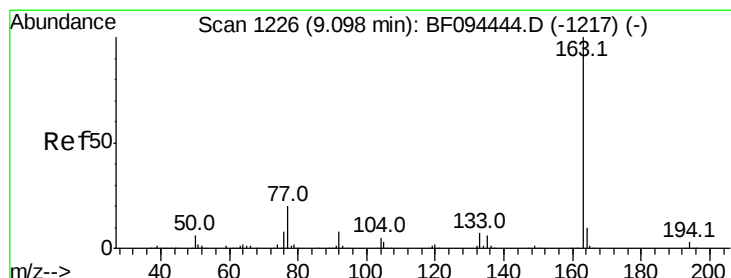
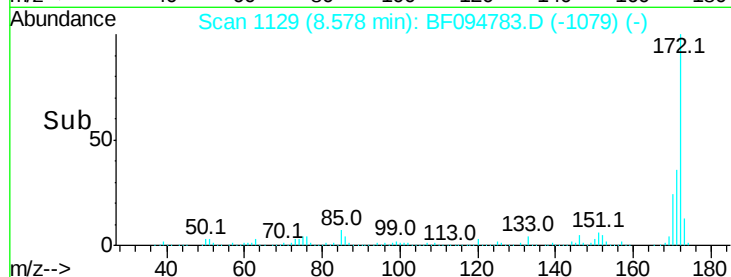
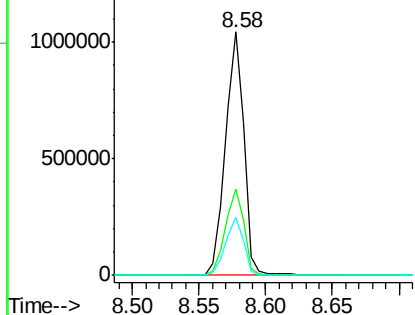
#44
2-Fluorobiphenyl
Concen: 96.22 ng
RT: 8.58 min Scan# 1129
Delta R.T. -0.01 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Instrument :
BNA_F
ClientSampleId :
OWS-S(4.5-5)

Tot Ion:172 Resp: 1025996
Ion Ratio Lower Upper
172 100
171 35.6 29.6 44.4
170 23.7 19.8 29.8

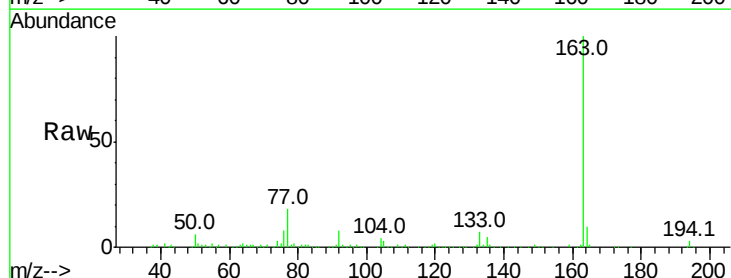


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

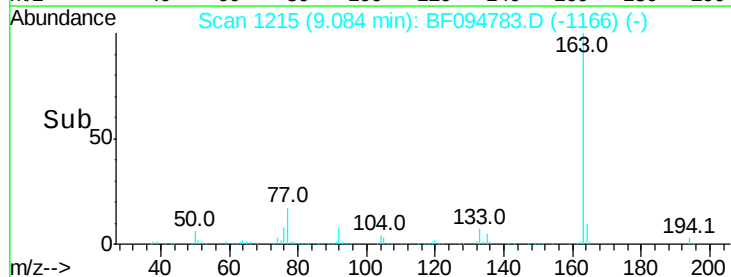
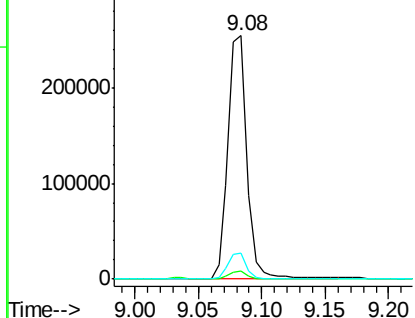


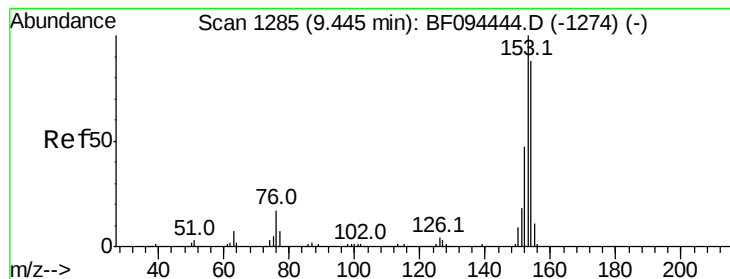
#49
Dimethylphthalate
Concen: 22.48 ng
RT: 9.08 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Tgt Ion:163 Resp: 262837
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 10.4 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 4.03 ng

RT: 9.43 min Scan# 1274

Delta R.T. -0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

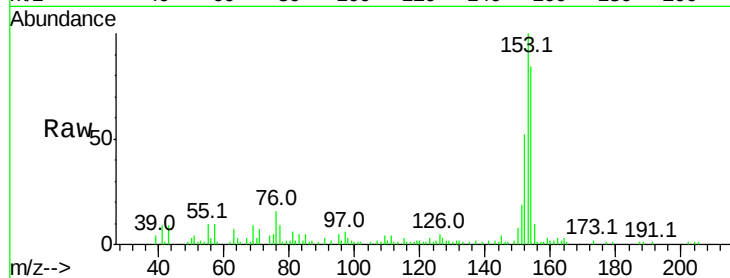
Tot Ion:154 Resp: 38359

Ion Ratio Lower Upper

154 100

153 118.8 90.5 135.7

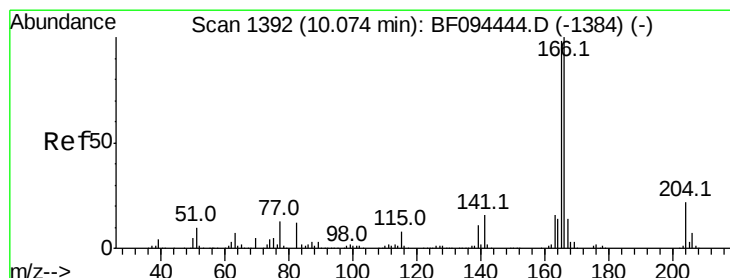
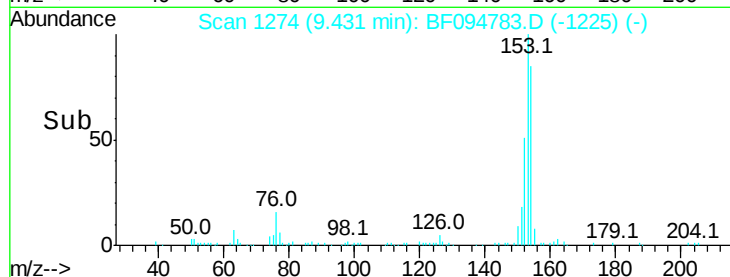
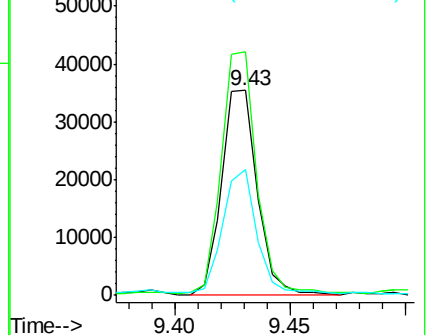
152 61.4 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 3.55 ng

RT: 10.07 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

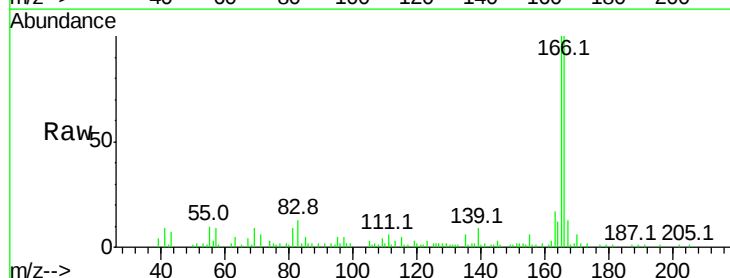
Tgt Ion:166 Resp: 38238

Ion Ratio Lower Upper

166 100

165 100.4 78.8 118.2

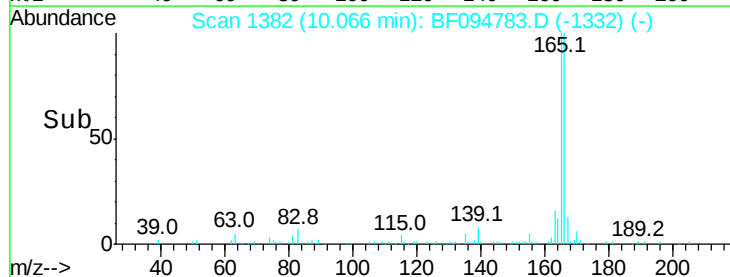
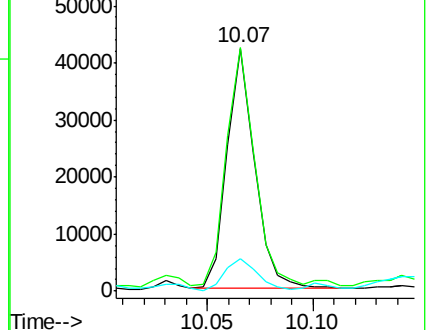
167 13.2 10.6 16.0

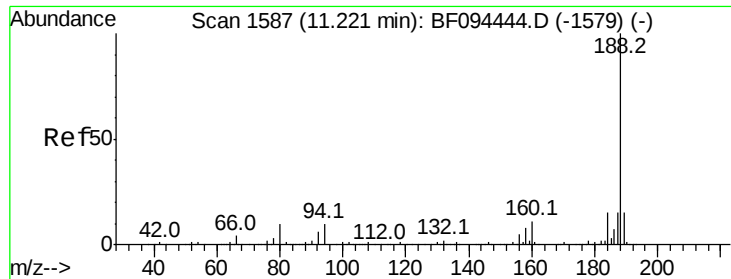


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

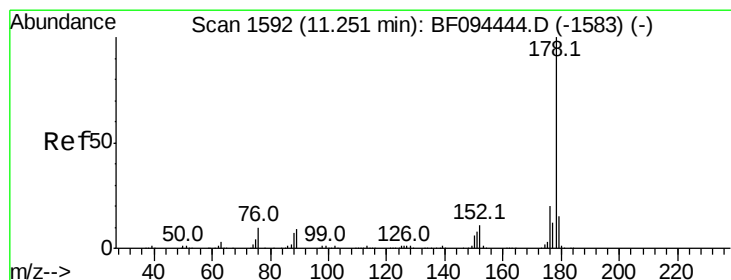
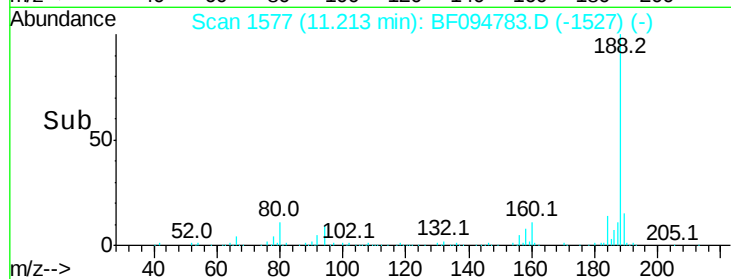
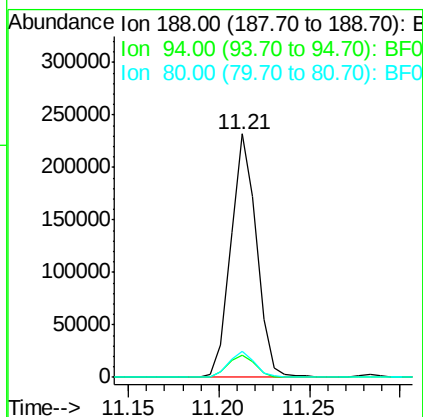
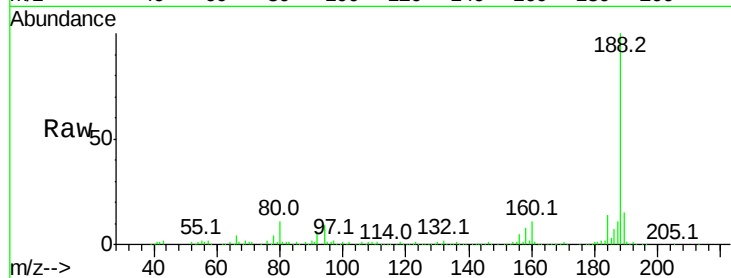




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.21 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

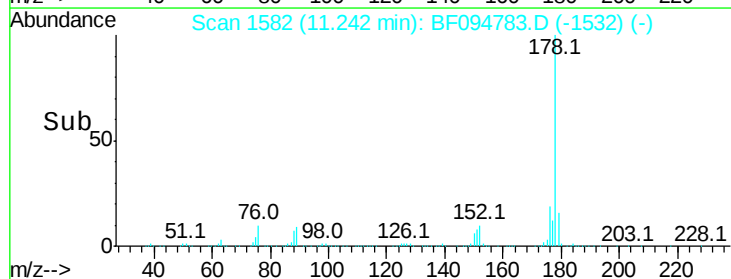
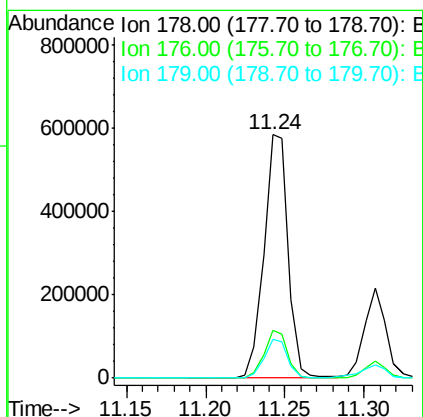
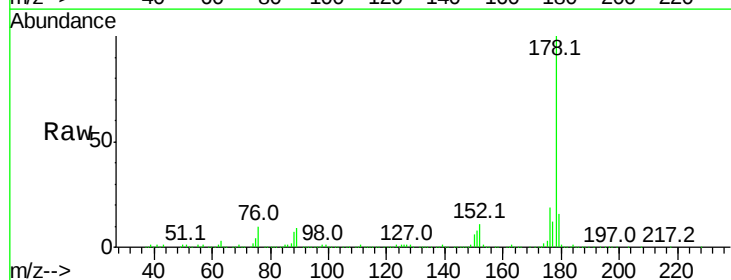
Instrument :
BNA_F
ClientSampleId :
OWS-S(4.5-5)

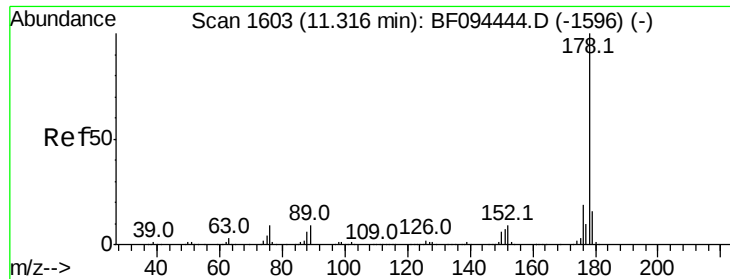
Tot Ion:188 Resp: 228797
Ion Ratio Lower Upper
188 100
94 9.2 9.4 14.2#
80 10.8 10.2 15.2



#70
Phenanthrene
Concen: 48.45 ng
RT: 11.24 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Tgt Ion:178 Resp: 624196
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.9 12.6 19.0

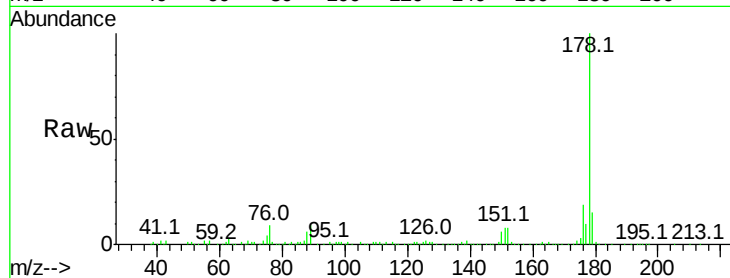




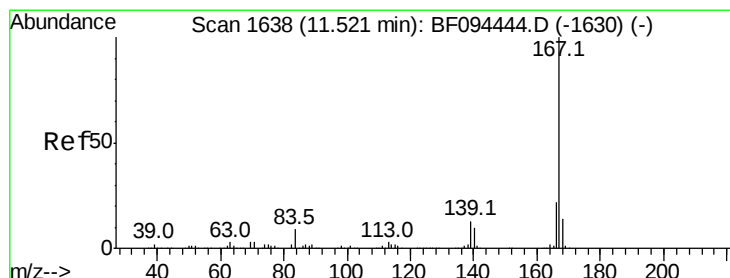
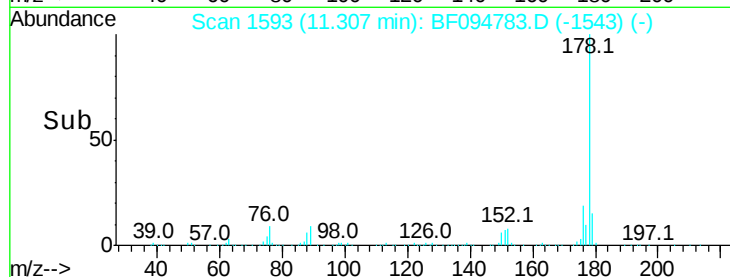
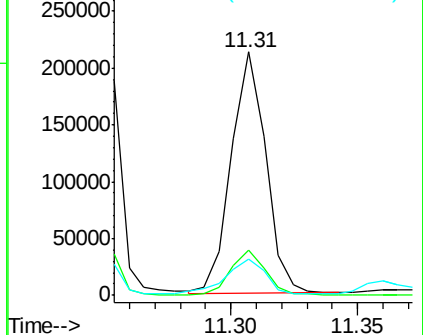
#71
 Anthracene
 Concen: 15.20 ng
 RT: 11.31 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF094783.D
 Acq: 2 May 2017 7:18

Instrument :
 BNA_F
 ClientSampleId :
 OWS-S(4.5-5)

Tot Ion:178 Resp: 202571
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.8 23.8
 179 15.1 12.7 19.1

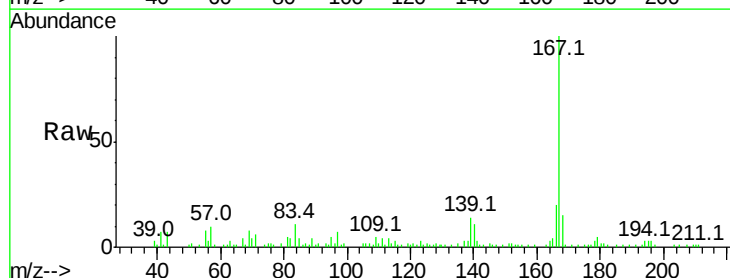


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

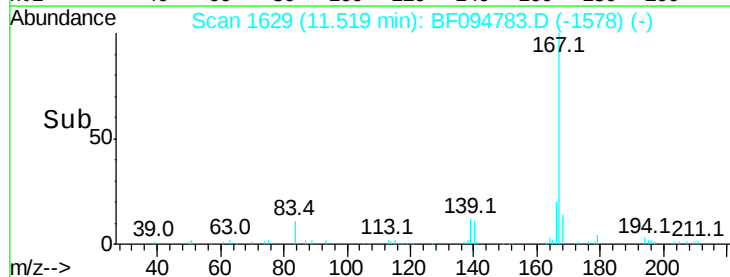
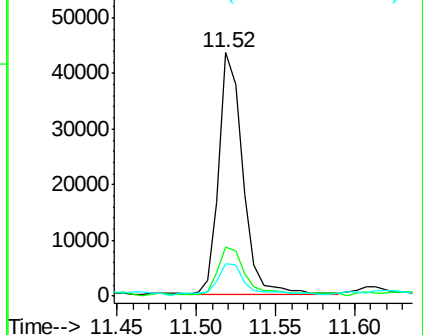


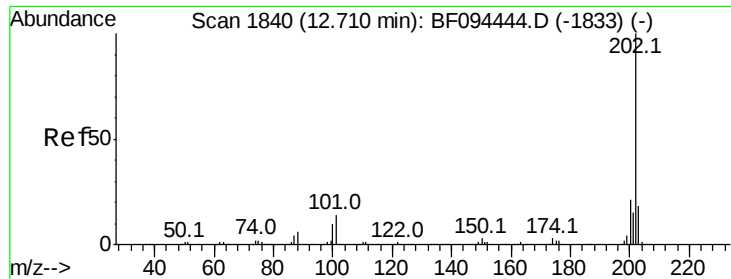
#72
 Carbazole
 Concen: 3.67 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: BF094783.D
 Acq: 2 May 2017 7:18

Tgt Ion:167 Resp: 45965
 Ion Ratio Lower Upper
 167 100
 166 20.1 18.1 27.1
 139 13.6 11.7 17.5



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





#74

Fluoranthene

Concen: 98.99 ng

RT: 12.71 min Scan# 1832

Delta R.T. 0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

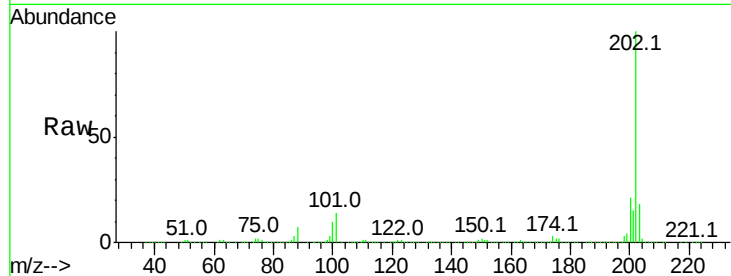
Tot Ion:202 Resp: 1321854

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

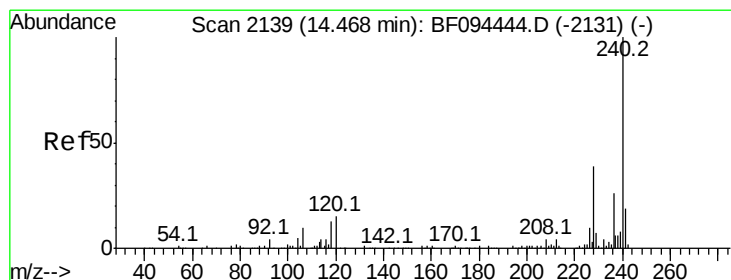
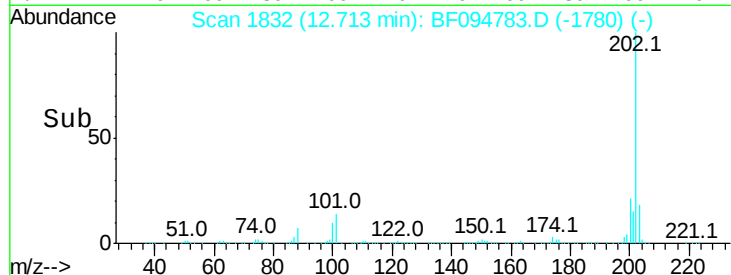
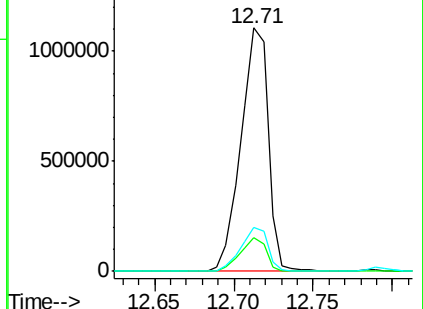
203 17.8 0.0 38.1



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: 14.47 min Scan# 2131

Delta R.T. 0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

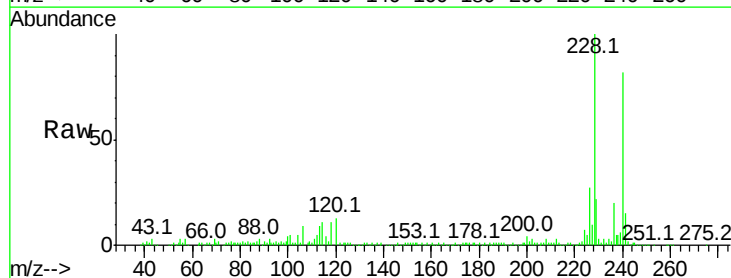
Tgt Ion:240 Resp: 190351

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

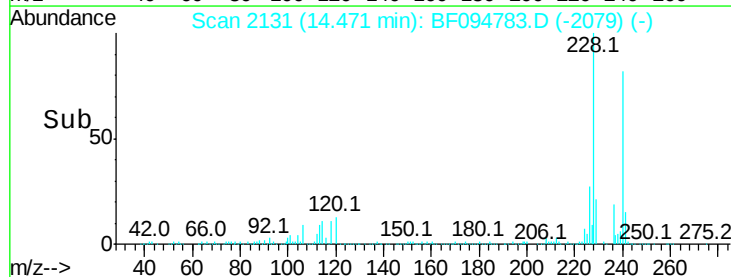
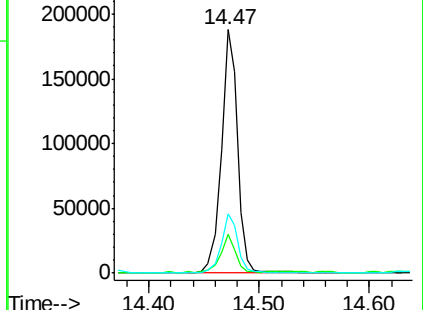
236 24.6 20.5 30.7

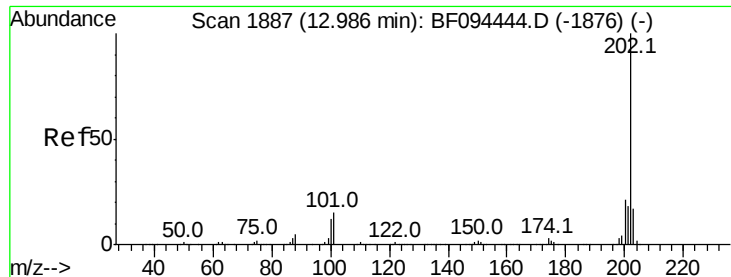


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

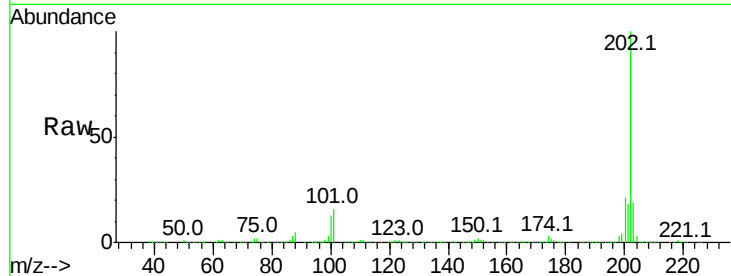




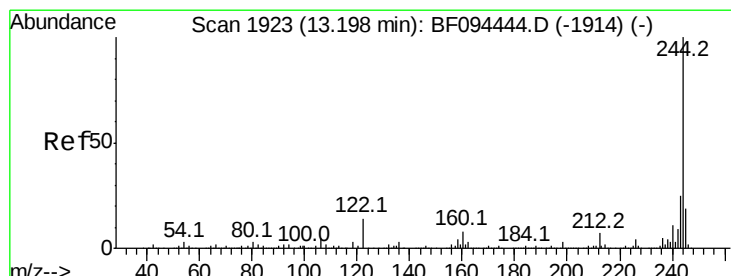
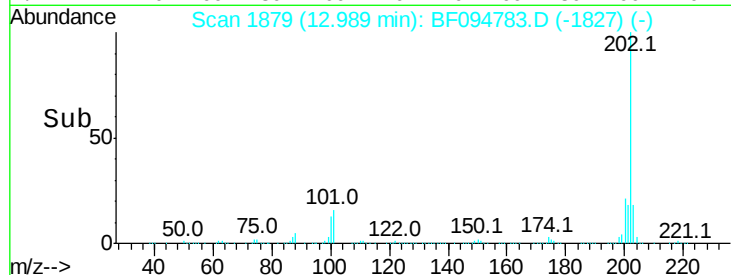
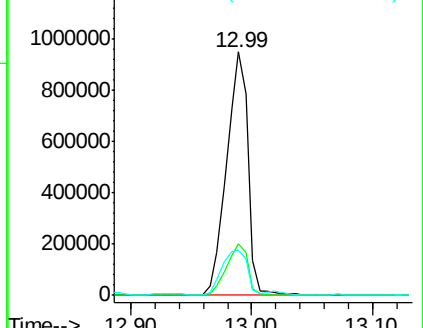
#77
Pvrene
Concen: 87.07 ng
RT: 12.99 min Scan# 1879
Delta R.T. 0.00 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Instrument :
BNA_F
ClientSampleId :
OWS-S(4.5-5)

Tot Ion:202 Resp: 1157973
Ion Ratio Lower Upper
202 100
200 21.3 17.6 26.4
203 18.5 14.4 21.6

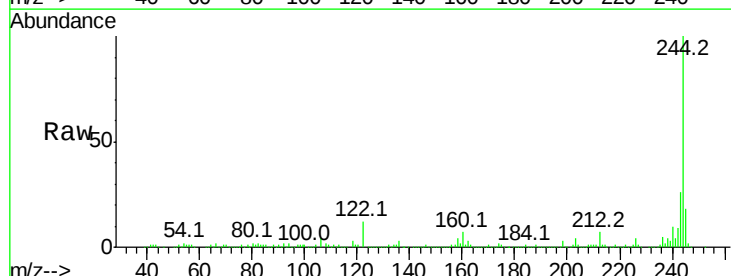


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

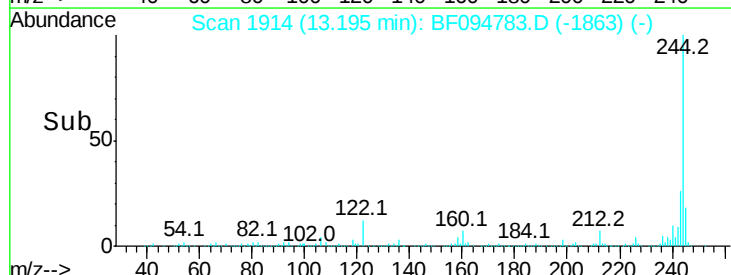
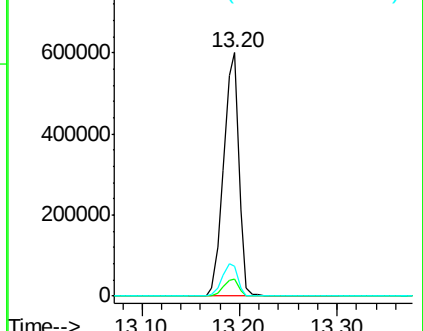


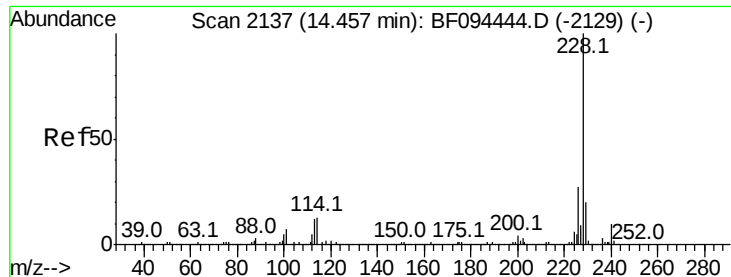
#78
Terphenyl-d14
Concen: 91.88 ng
RT: 13.20 min Scan# 1914
Delta R.T. -0.00 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Tgt Ion:244 Resp: 654309
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 12.3 10.3 15.5



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: 59.53 ng

RT: 14.46 min Scan# 2129

Delta R.T. 0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

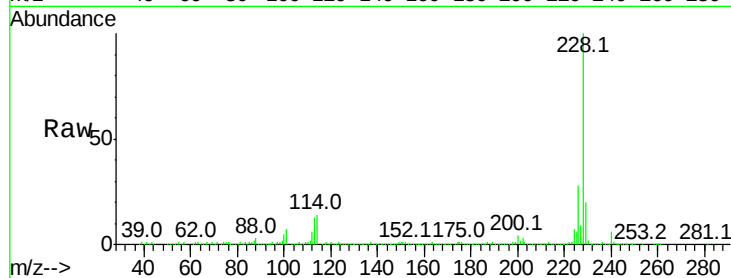
Tot Ion:228 Resp: 658628

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

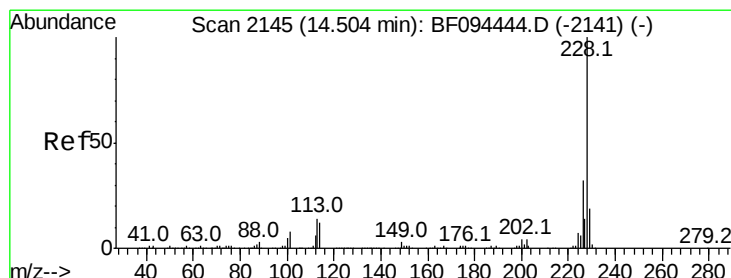
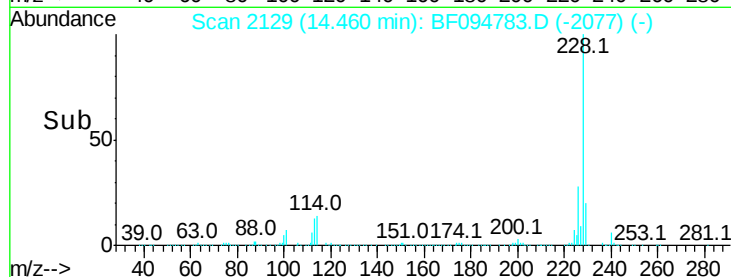
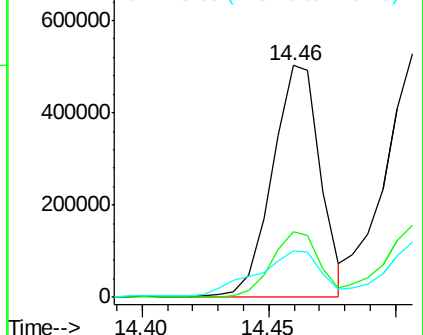
229 20.1 16.3 24.5



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



#82

Chrysene

Concen: 61.88 ng m

RT: 14.51 min Scan# 2137

Delta R.T. 0.00 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

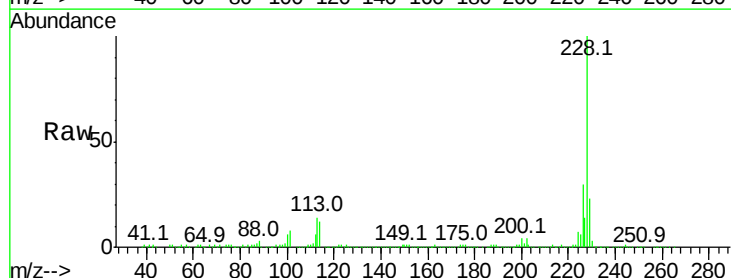
Tgt Ion:228 Resp: 625673

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

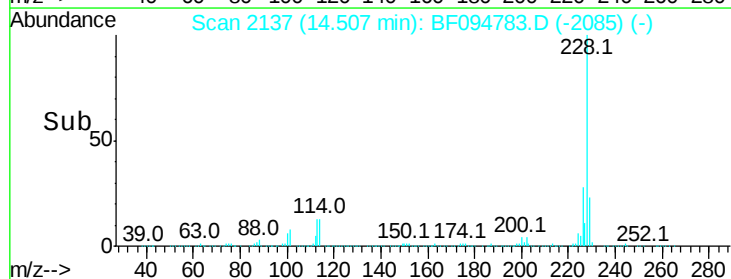
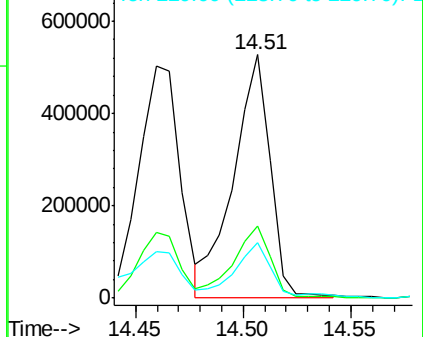
229 22.8 15.8 23.6

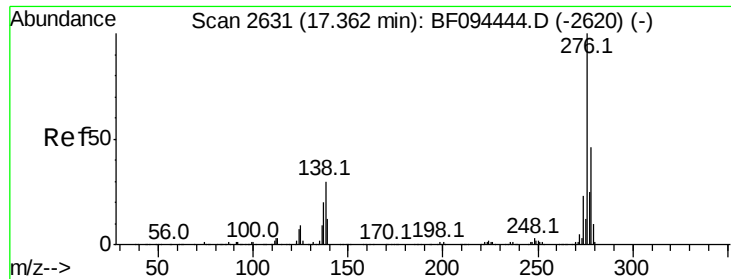


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

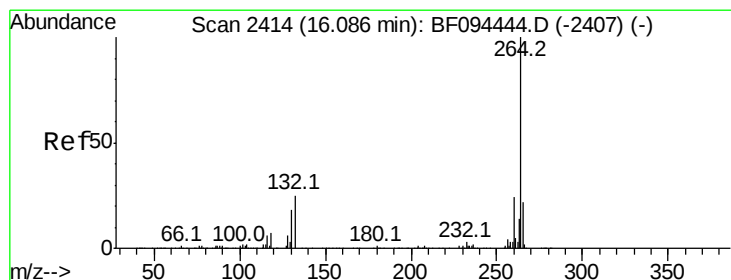
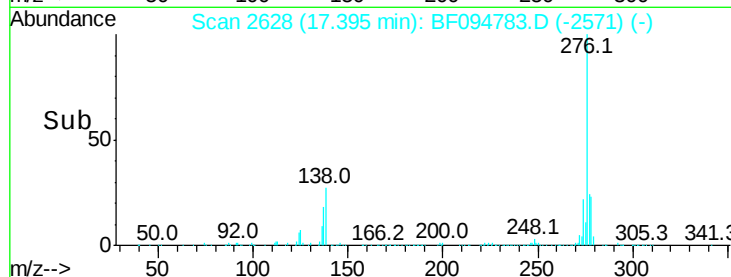
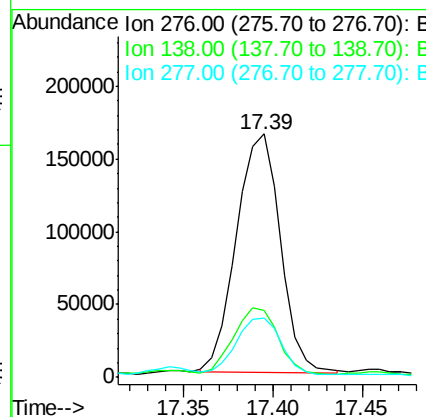
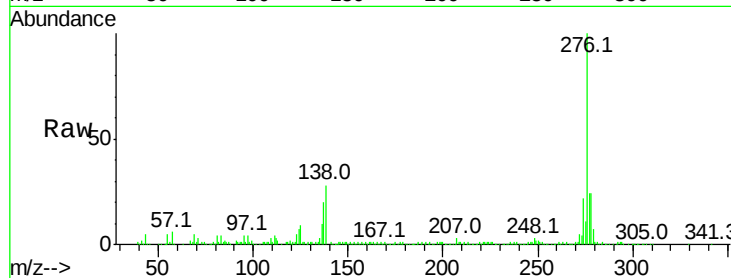




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 28.95 ng/mL
 RT: 17.39 min Scan# 2628
 Delta R.T. 0.03 min
 Lab File: BF094783.D
 Acq: 2 May 2017 7:18

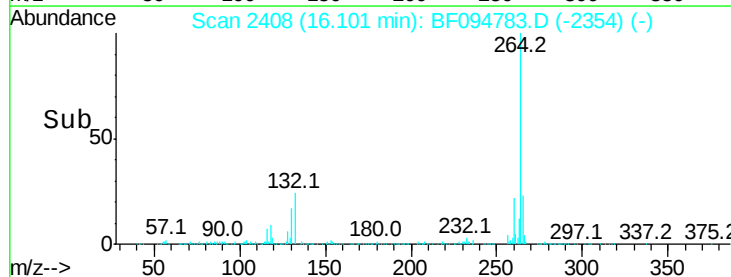
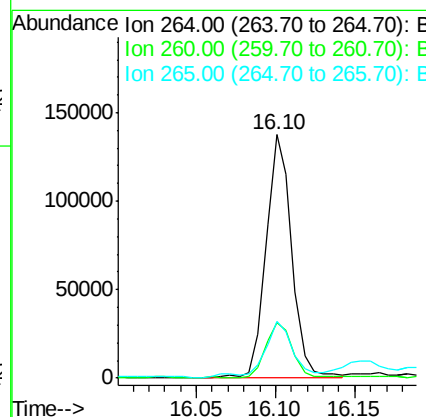
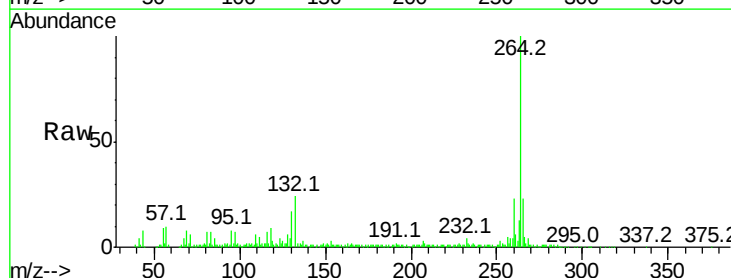
Instrument :
 BNA_F
 ClientSampleId :
 OWS-S(4.5-5)

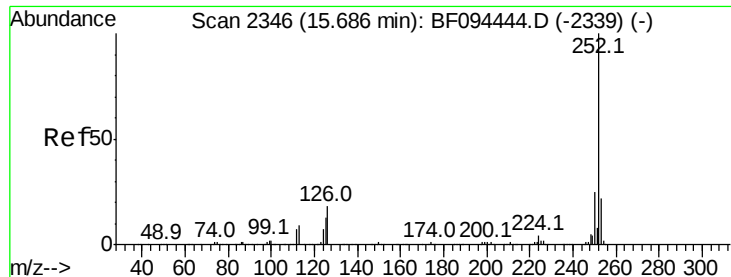
Tot Ion	Ratio	Lower	Upper
276	100		
138	5.6	27.8	41.6#
277	4.1	20.2	30.4#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.10 min Scan# 2408
 Delta R.T. 0.01 min
 Lab File: BF094783.D
 Acq: 2 May 2017 7:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	23.3	17.2	25.8

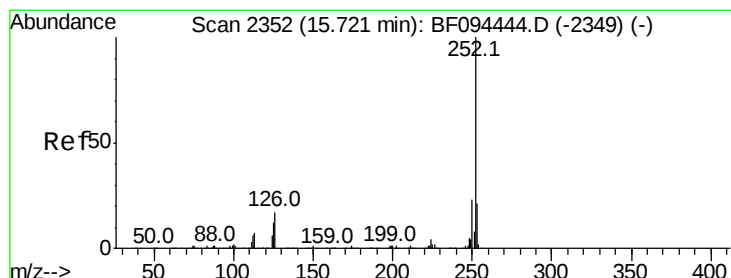
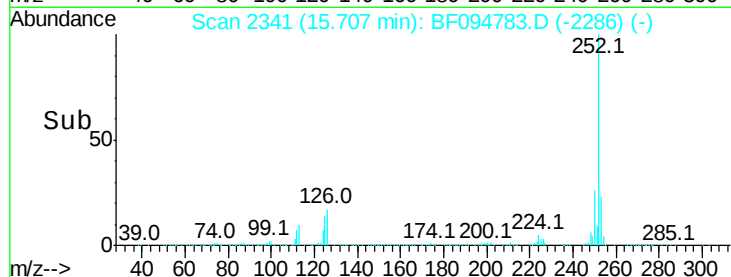
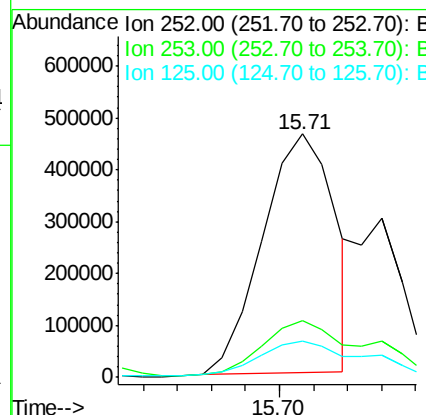
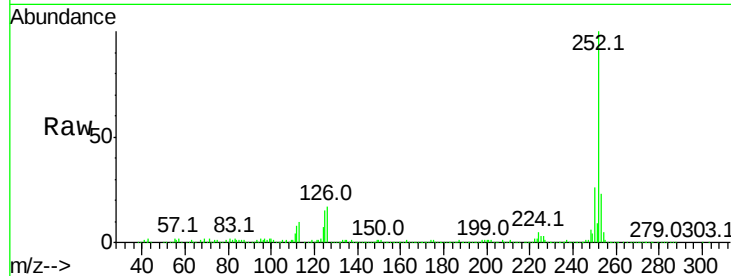




#87
Benzo(b)fluoranthene
Concen: 70.86 ng m
RT: 15.71 min Scan# 2341
Delta R.T. 0.02 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

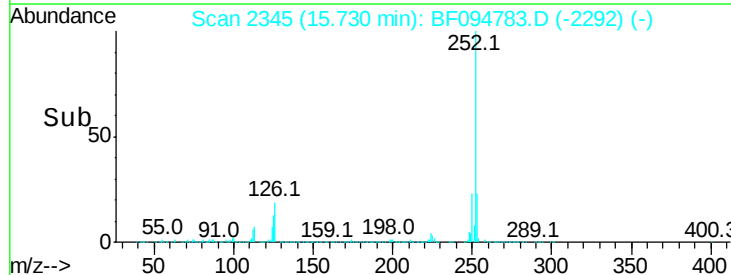
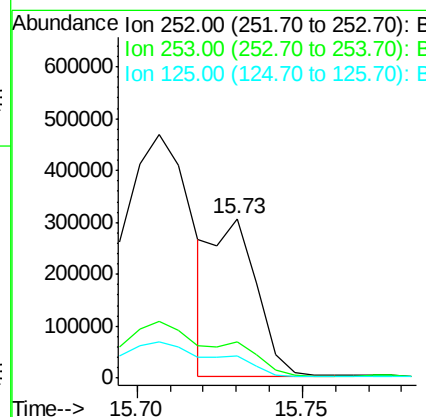
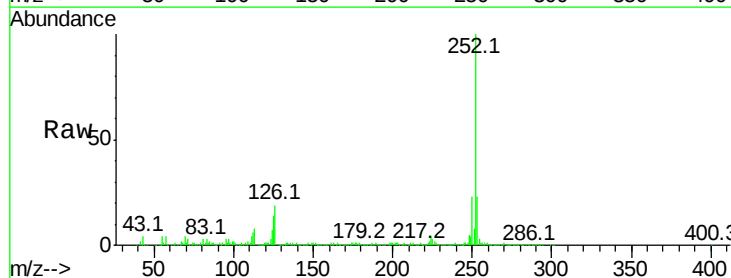
Instrument :
BNA_F
ClientSampleId :
OWS-S(4.5-5)

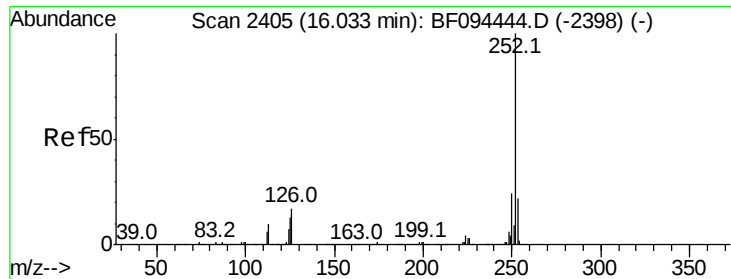
Tot Ion:252 Resp: 681932
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 14.8 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 30.59 ng m
RT: 15.73 min Scan# 2345
Delta R.T. 0.01 min
Lab File: BF094783.D
Acq: 2 May 2017 7:18

Tgt Ion:252 Resp: 278566
Ion Ratio Lower Upper
252 100
253 23.1 18.4 27.6
125 13.8 13.1 19.7





#89

Benzo(a)pyrene

Concen: 58.96 ng

RT: 16.05 min Scan# 2399

Delta R.T. 0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

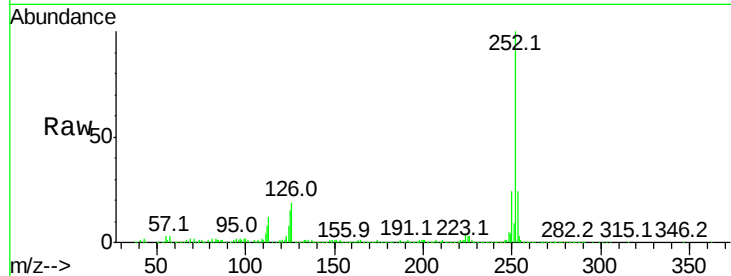
Tot Ion:252 Resp: 527922

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

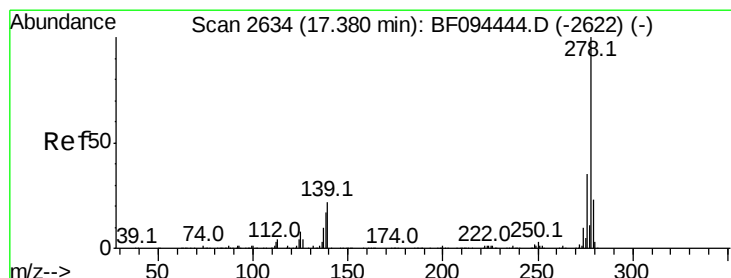
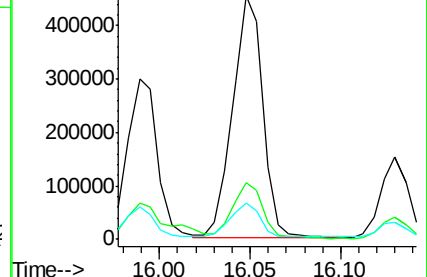
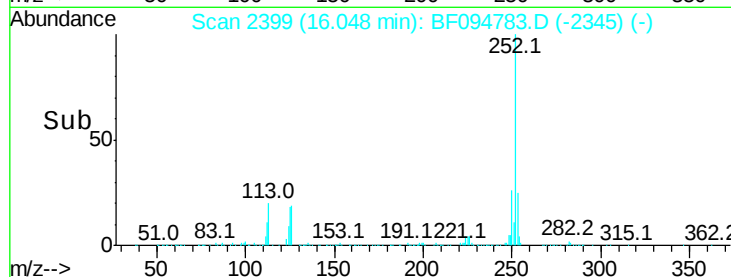
125 15.0 11.0 16.4



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: 8.78 ng m

RT: 17.39 min Scan# 2628

Delta R.T. 0.01 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

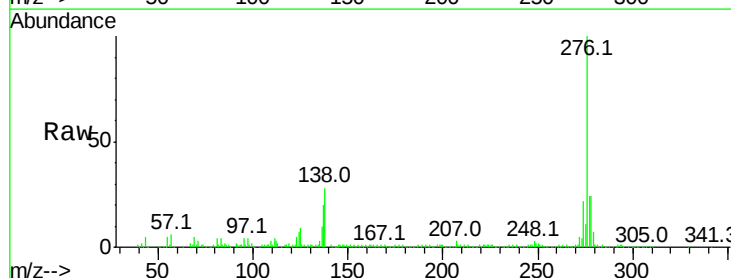
Tgt Ion:278 Resp: 65275

Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

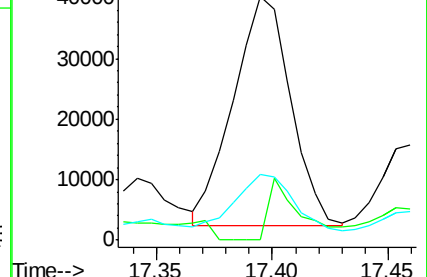
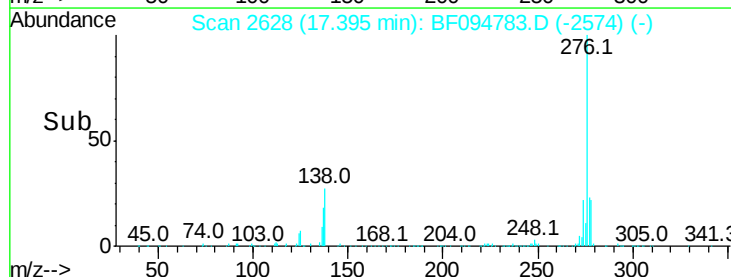
279 27.2 19.3 28.9

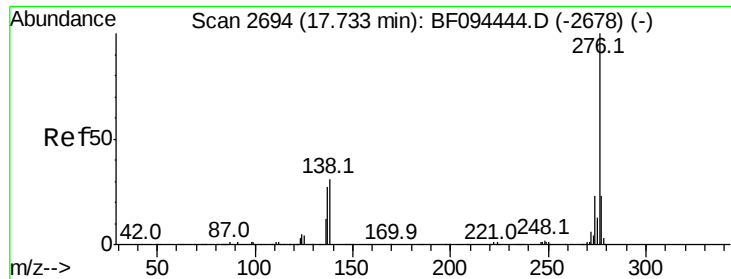


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 37.91 ng

RT: 17.77 min Scan# 2692

Delta R.T. 0.04 min

Lab File: BF094783.D

Acq: 2 May 2017 7:18

Instrument :

BNA_F

ClientSampleId :

OWS-S(4.5-5)

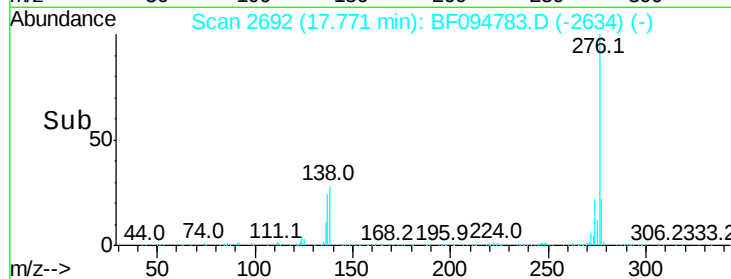
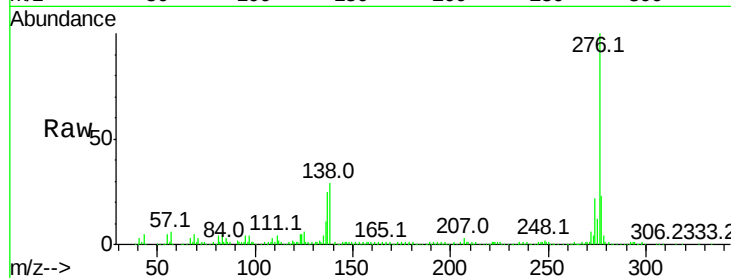
Tot Ion:276 Resp: 286968

Ion Ratio Lower Upper

276 100

277 22.8 18.6 28.0

138 28.7 25.4 38.0



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

