

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042117\
 Data File : BF094570.D
 Acq On : 21 Apr 2017 18:46
 Operator : SJ/MA
 Sample : I2786-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 21 23:35:38 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

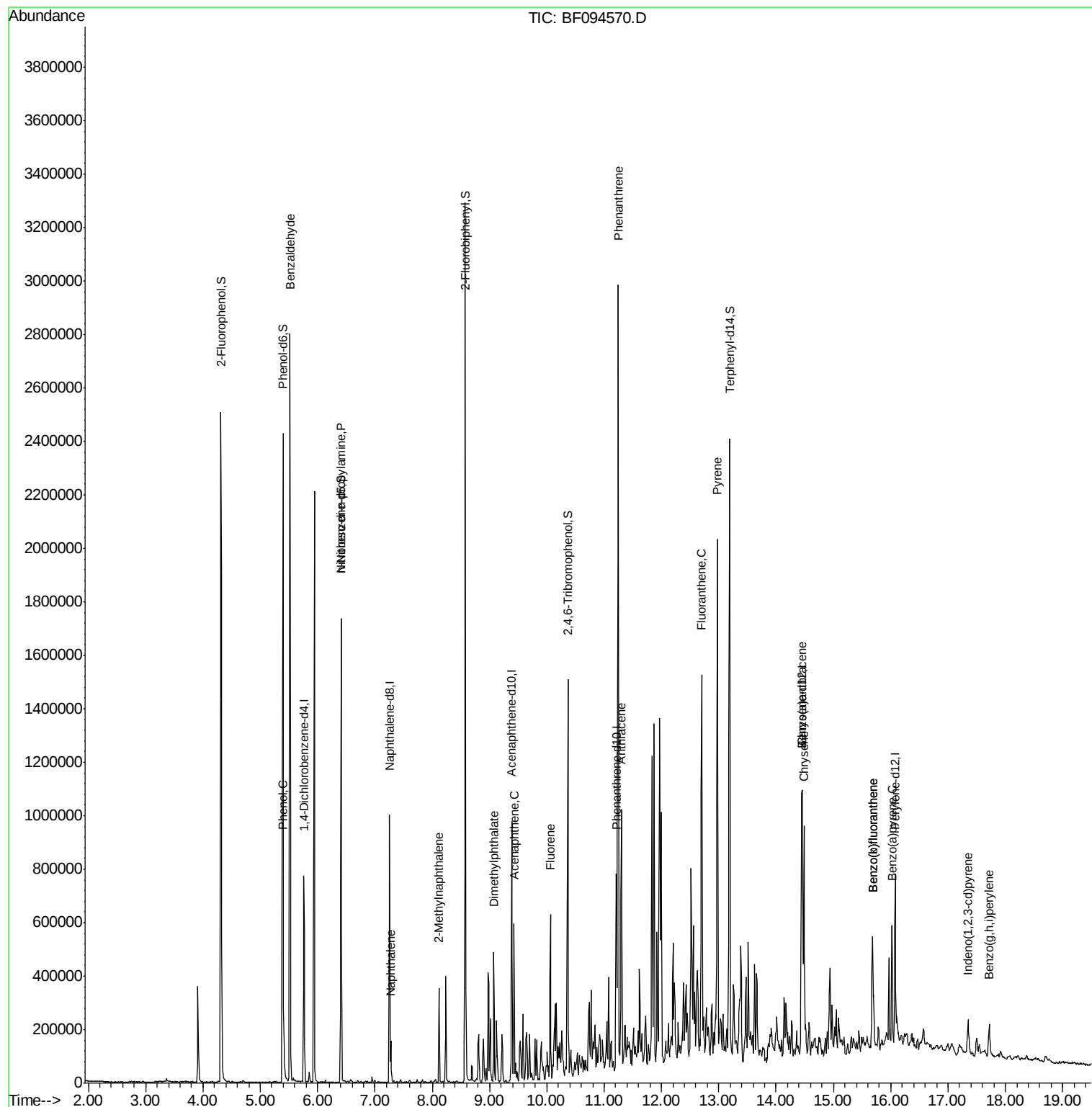
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.76	152	116542	20.00	ng	0.00
21) Naphthalene-d8	7.25	136	457049	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	204102	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	342460	20.00	ng	0.00
75) Chrysene-d12	14.46	240	265885	20.00	ng	0.00
86) Perylene-d12	16.08	264	250291	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.31	112	767053	109.20	ng	0.00
7) Phenol-d6	5.40	99	981336	118.50	ng	0.00
23) Nitrobenzene-d5	6.41	82	591122	79.86	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	179216	112.26	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	1152360	83.07	ng	0.00
78) Terphenyl-d14	13.19	244	816698	82.10	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	5.52	77	16993	2.70	ng	86
10) Phenol	5.41	94	54480	5.36	ng	89
19) n-Nitroso-di-n-propylamine	6.41	70	76200	13.89	ng	# 75
31) Naphthalene	7.28	128	68159	3.10	ng	99
37) 2-Methylnaphthalene	8.12	142	102695	6.83	ng	96
49) Dimethylphthalate	9.08	163	202821	13.33	ng	99
51) Acenaphthene	9.42	154	128660	10.39	ng	99
57) Fluorene	10.06	166	152007	10.85	ng	99
70) Phenanthrene	11.25	178	1372731	71.18	ng	99
71) Anthracene	11.30	178	379427	19.02	ng	98
74) Fluoranthene	12.70	202	635920	31.82	ng	98
77) Pyrene	12.98	202	857291	46.15	ng	98
80) Benzo(a)anthracene	14.44	228	354365	22.93	ng	97
82) Chrysene	14.49	228	355739	25.19	ng	97
85) Indeno(1,2,3-cd)pyrene	17.35	276	70493	5.25	ng	94
87) Benzo(b)fluoranthene	15.68	252	279349	18.24	ng	# 96
88) Benzo(k)fluoranthene	15.68	252	279349	19.28	ng	97
89) Benzo(a)pyrene	16.02	252	201998	14.18	ng	98
91) Benzo(a,h,i)perylene	17.72	276	75848	6.30	ng	98

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

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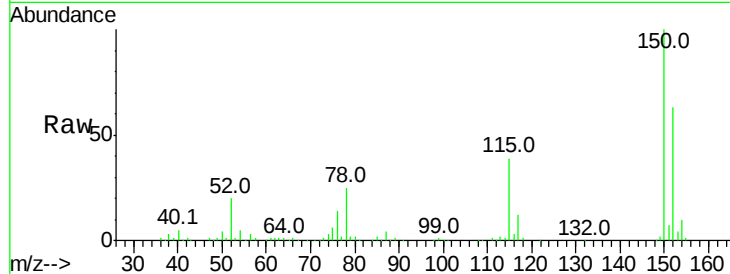


#1

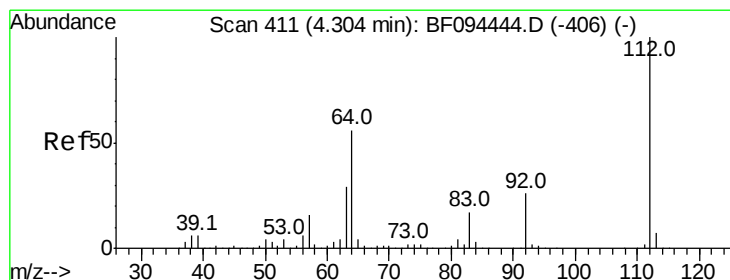
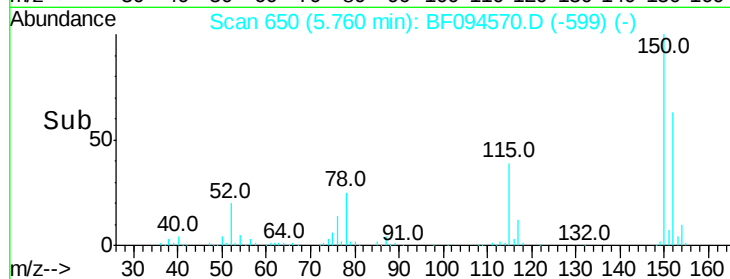
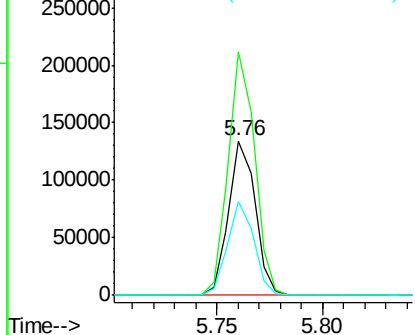
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.76 min Scan# 650
Delta R.T. -0.00 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 116542
Ion Ratio Lower Upper
152 100
150 158.1 126.2 189.2
115 61.1 52.2 78.2



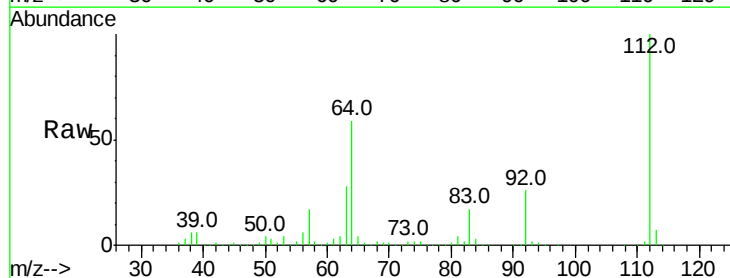
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



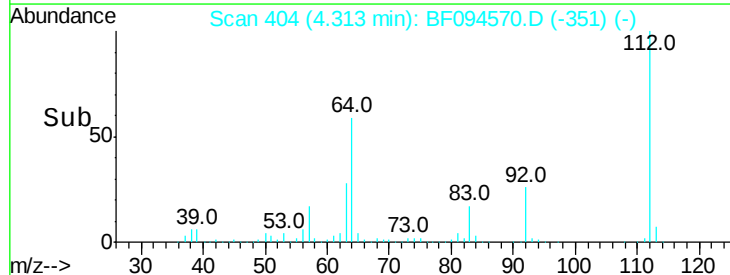
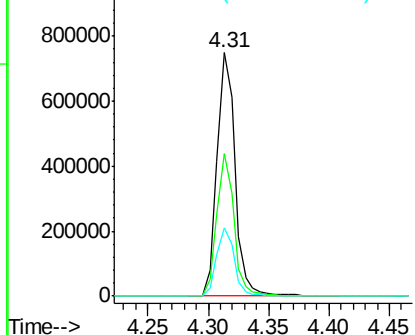
#5

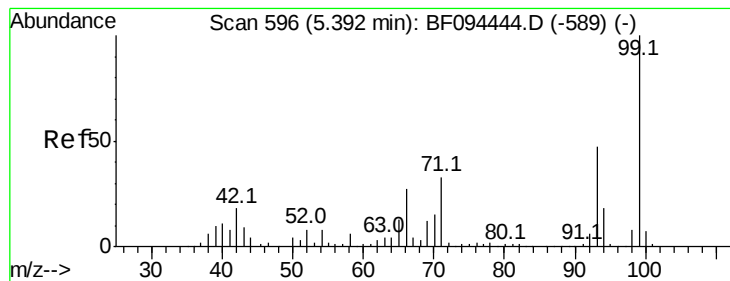
2-Fluorophenol
Concen: 109.20 ng
RT: 4.31 min Scan# 404
Delta R.T. 0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Tgt Ion:112 Resp: 767053
Ion Ratio Lower Upper
112 100
64 58.8 46.0 69.0
63 28.2 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: 118.50 ng

RT: 5.40 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :
BNA_F
ClientSampleId :

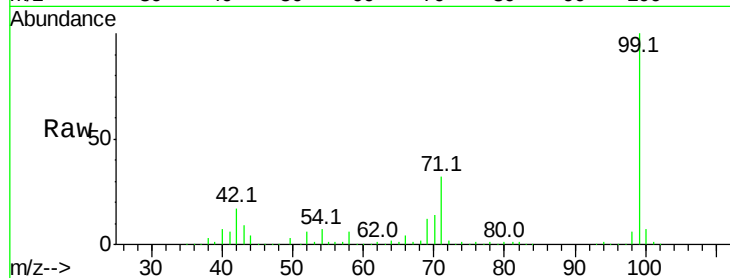
Tot Ion: 99 Resp: 981336

Ion Ratio Lower Upper

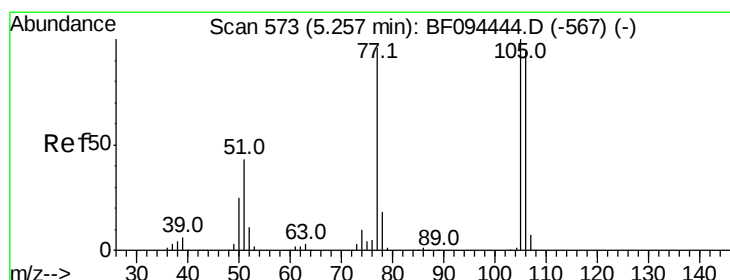
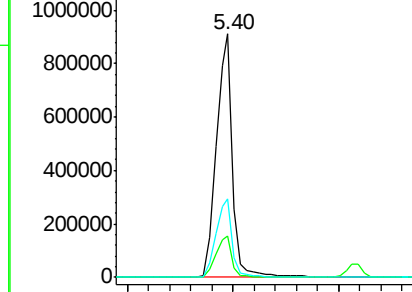
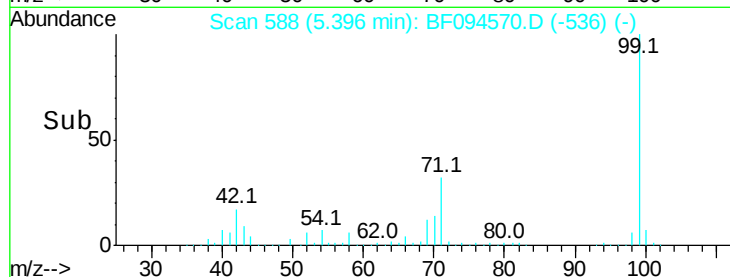
99 100

42 17.2 13.5 20.3

71 32.2 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



#9

Benzaldehyde

Concen: 2.70 ng

RT: 5.52 min Scan# 609

Delta R.T. 0.26 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

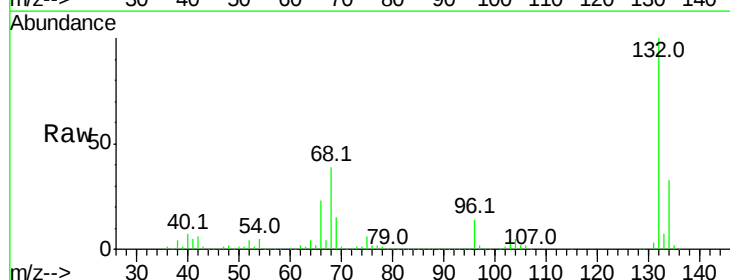
Tgt Ion: 77 Resp: 16993

Ion Ratio Lower Upper

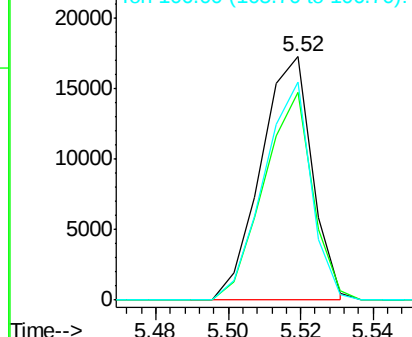
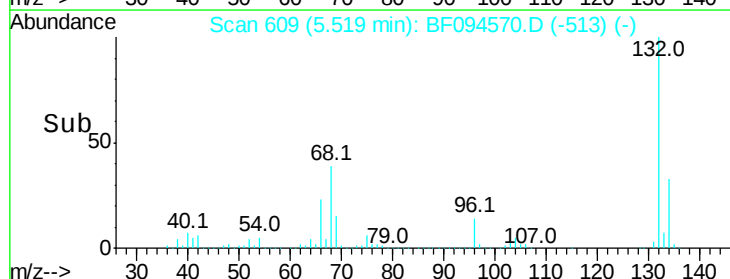
77 100

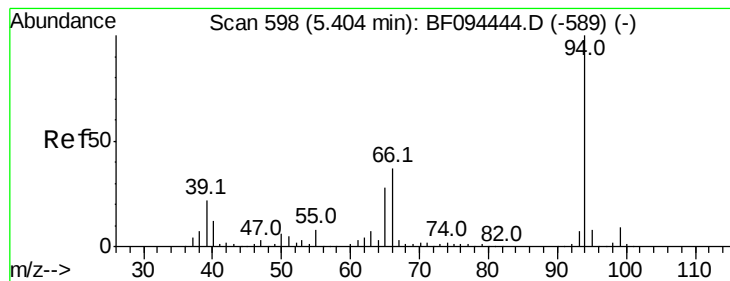
105 85.4 83.8 123.8

106 89.4 79.1 119.1



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 5.36 ng

RT: 5.41 min Scan# 590

Delta R.T. 0.00 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :
BNA_F
ClientSampled :

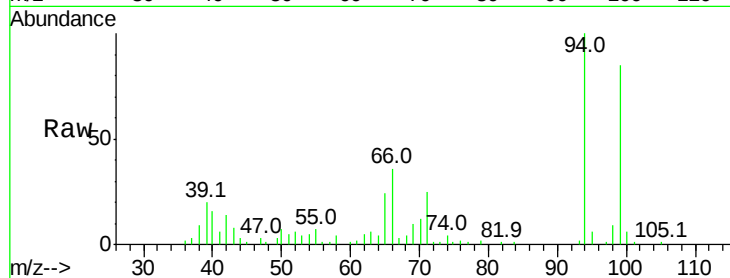
Tot Ion: 94 Resp: 54480

Ion Ratio Lower Upper

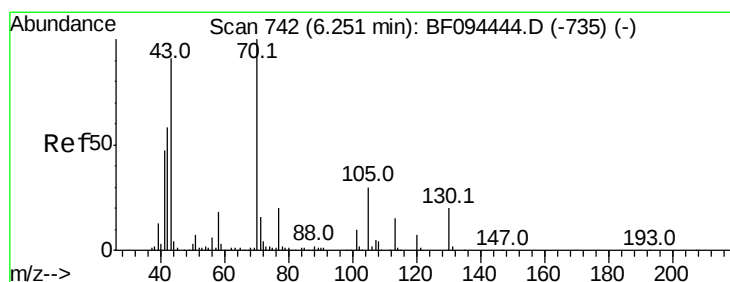
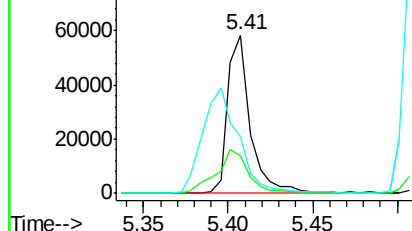
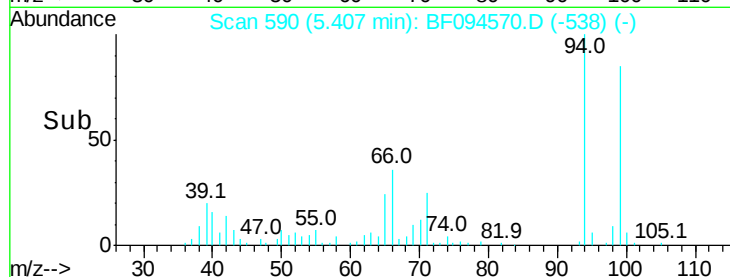
94 100

65 23.6 9.9 49.9

66 36.2 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



#19

n-Nitroso-di-n-propylamine

Concen: 13.89 ng

RT: 6.41 min Scan# 761

Delta R.T. 0.16 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Tgt Ion: 70 Resp: 76200

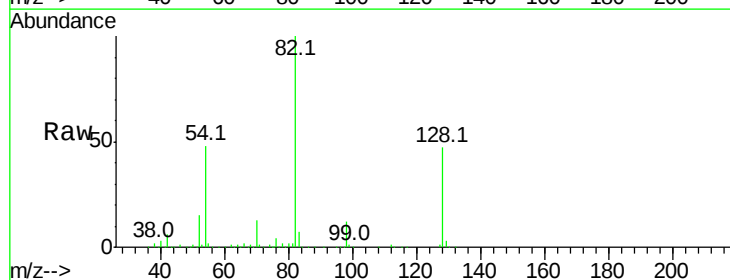
Ion Ratio Lower Upper

70 100

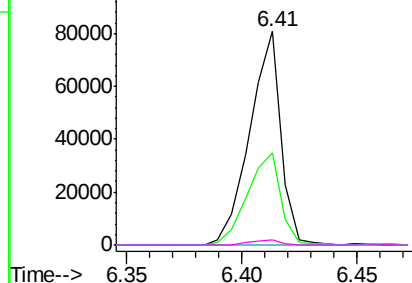
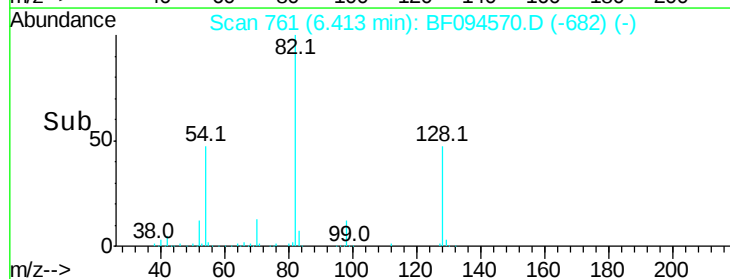
42 43.3 47.2 70.8#

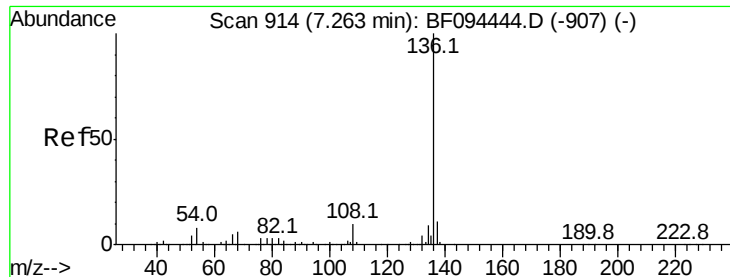
101 0.0 7.2 10.8#

130 2.7 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.25 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 457049

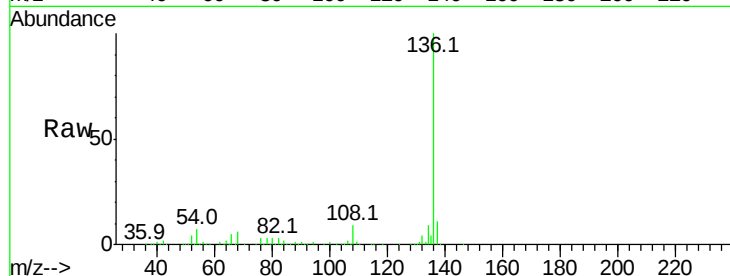
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.3 4.9 7.3

68 5.7 4.1 6.1

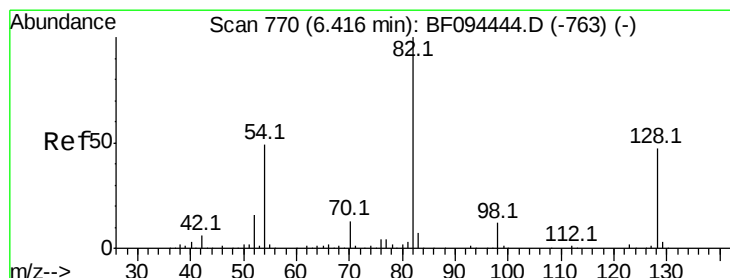
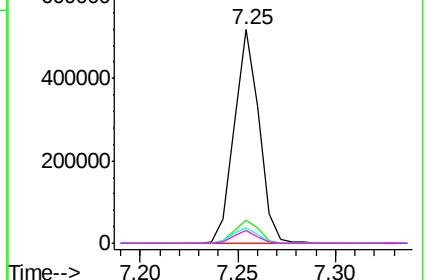
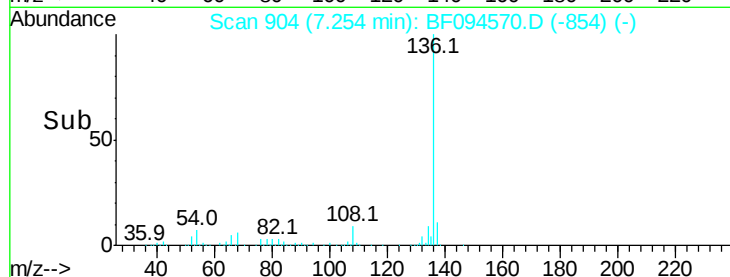


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.86 ng

RT: 6.41 min Scan# 761

Delta R.T. -0.00 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

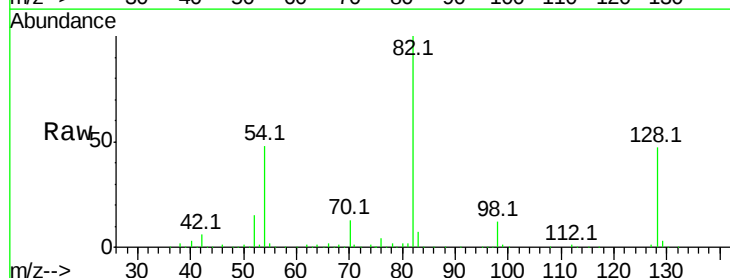
Tgt Ion: 82 Resp: 591122

Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

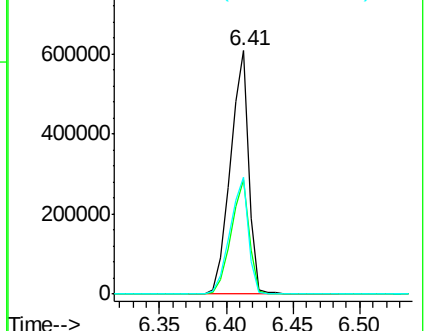
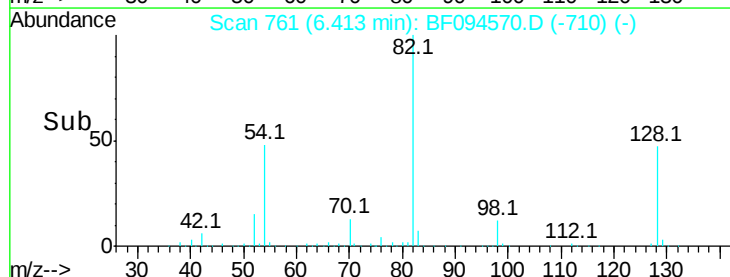
54 48.0 42.2 63.2

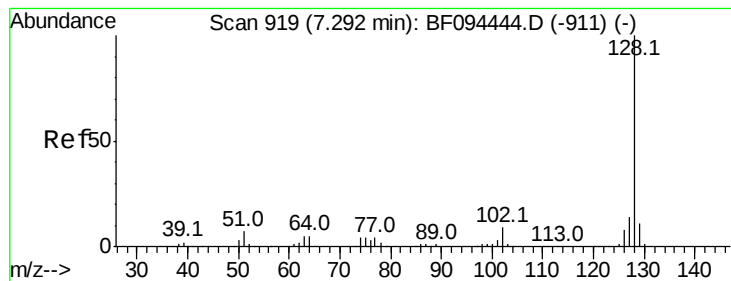


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 3.10 ng

RT: 7.28 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampled :

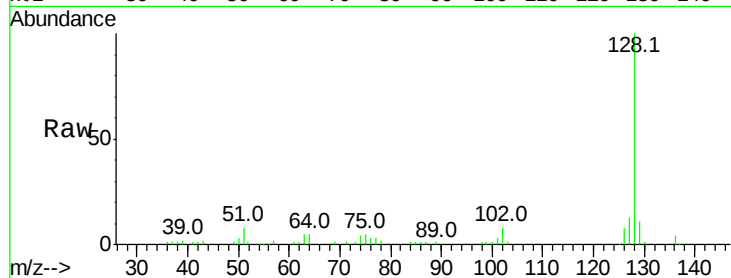
Tot Ion:128 Resp: 68159

Ion Ratio Lower Upper

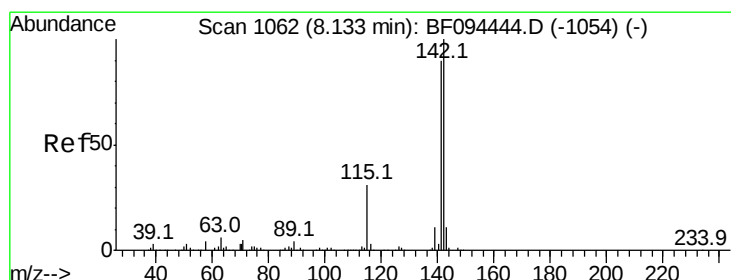
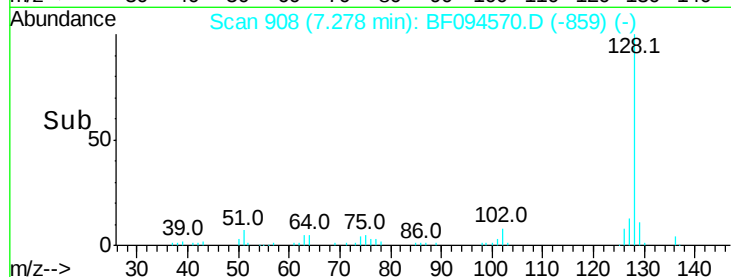
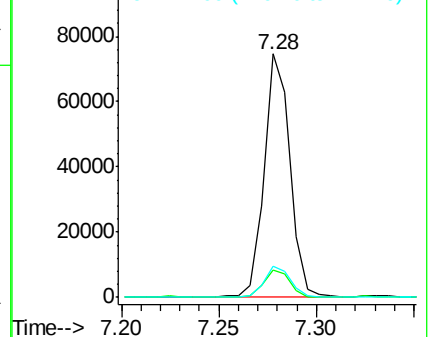
128 100

129 11.0 9.0 13.6

127 12.8 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: 6.83 ng

RT: 8.12 min Scan# 1051

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

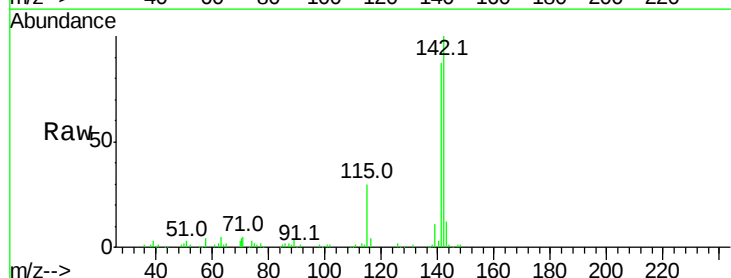
Tgt Ion:142 Resp: 102695

Ion Ratio Lower Upper

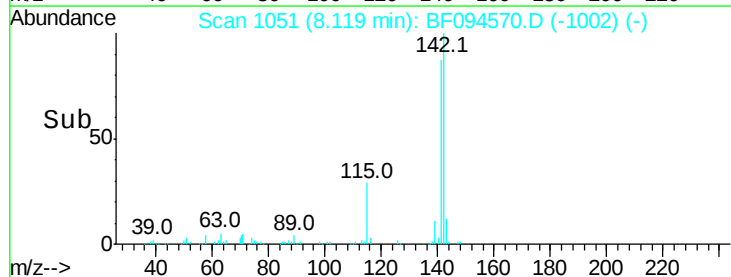
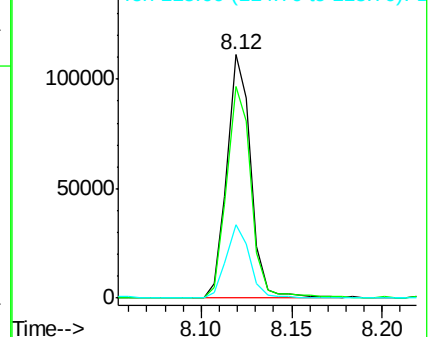
142 100

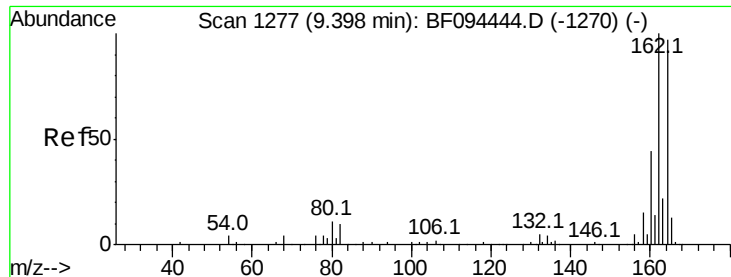
141 86.9 71.3 106.9

115 30.0 27.1 40.7



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

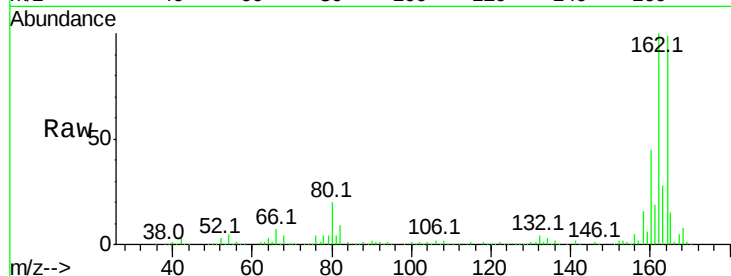




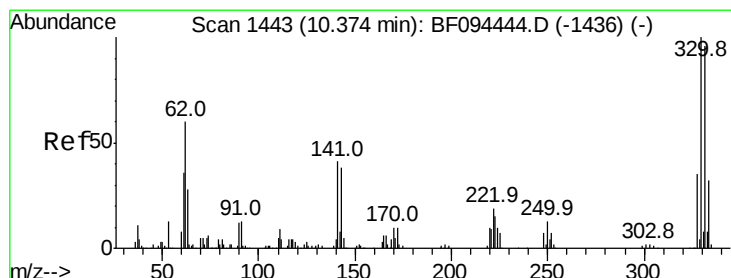
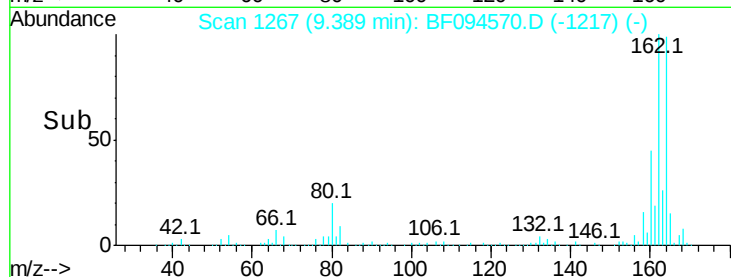
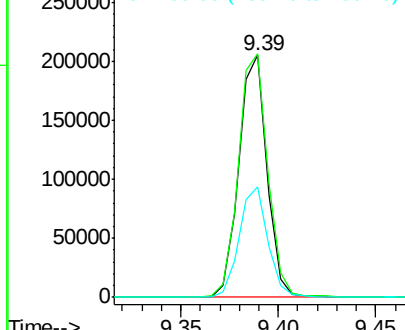
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.39 min Scan# 1267
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 204102
Ion Ratio Lower Upper
164 100
162 100.7 82.6 123.8
160 45.7 36.2 54.2

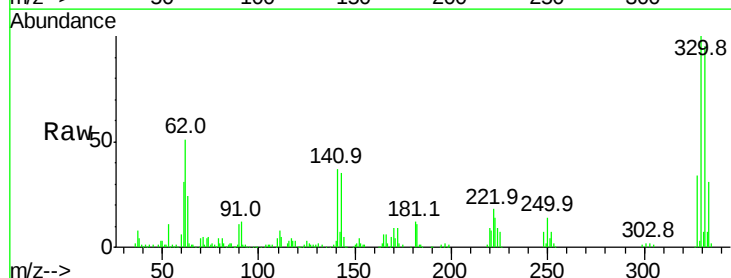


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

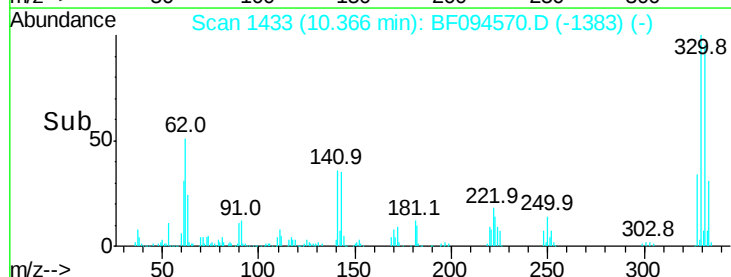
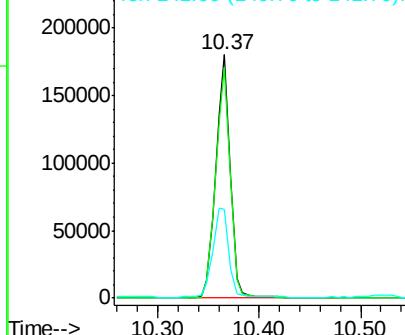


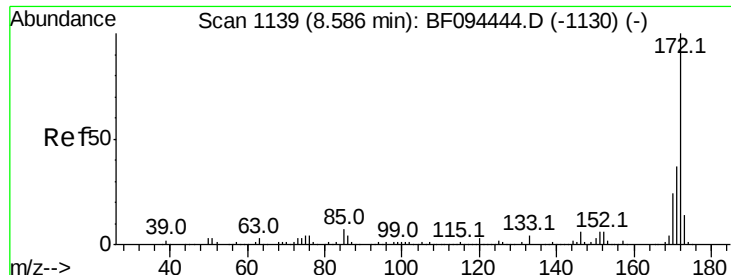
#41
2,4,6-Tribromophenol
Concen: 112.26 ng
RT: 10.37 min Scan# 1433
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Tgt Ion:330 Resp: 179216
Ion Ratio Lower Upper
330 100
332 95.8 76.6 115.0
141 41.0 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

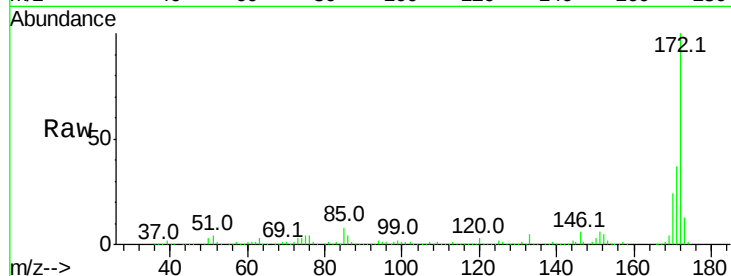




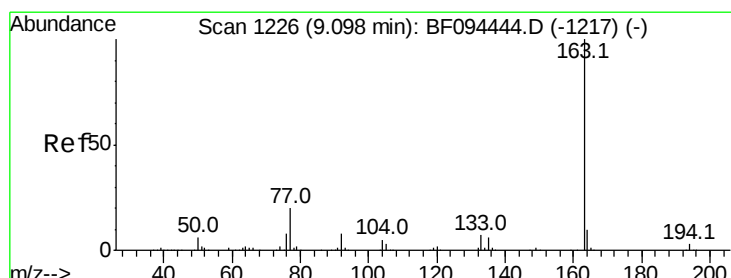
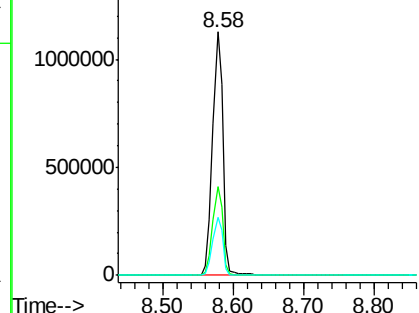
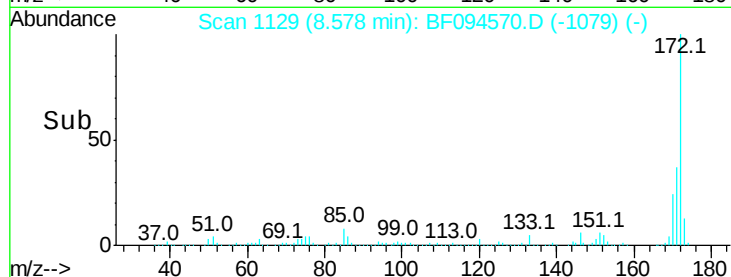
#44
2-Fluorobiphenyl
Concen: 83.07 ng
RT: 8.58 min Scan# 1129
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 1152360
Ion Ratio Lower Upper
172 100
171 36.7 29.6 44.4
170 24.1 19.8 29.8

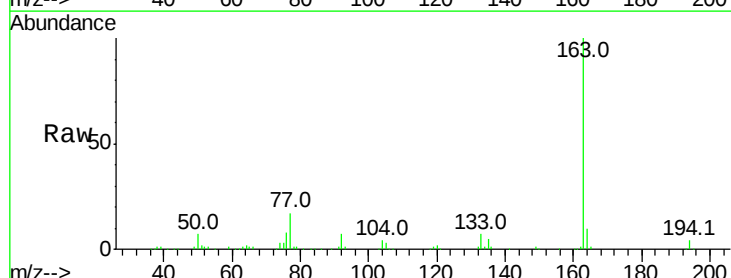


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

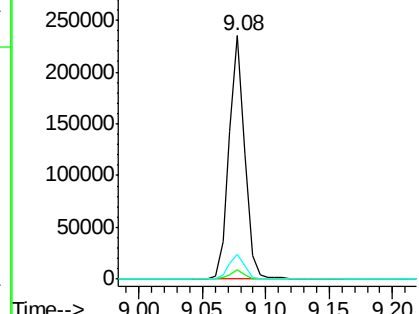
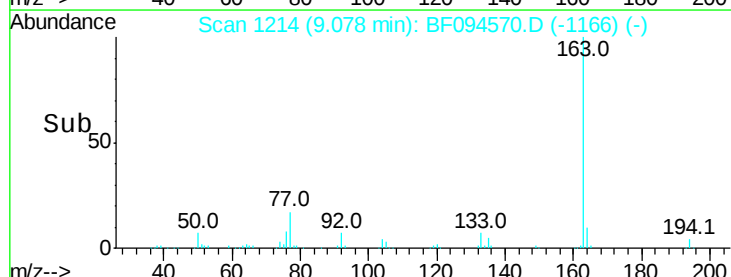


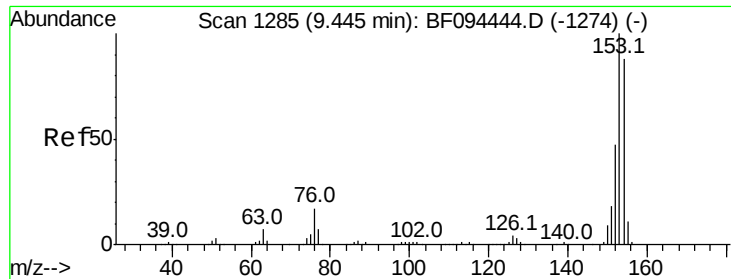
#49
Dimethylphthalate
Concen: 13.33 ng
RT: 9.08 min Scan# 1214
Delta R.T. -0.02 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Tgt Ion:163 Resp: 202821
Ion Ratio Lower Upper
163 100
194 3.6 2.6 4.0
164 10.1 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: 10.39 ng

RT: 9.42 min Scan# 1273

Delta R.T. -0.02 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampleId :

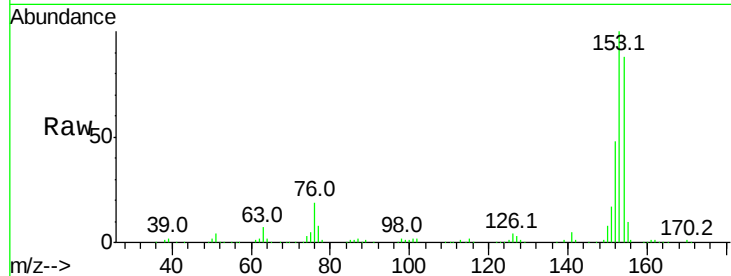
Tot Ion:154 Resp: 128660

Ion Ratio Lower Upper

154 100

153 114.1 90.5 135.7

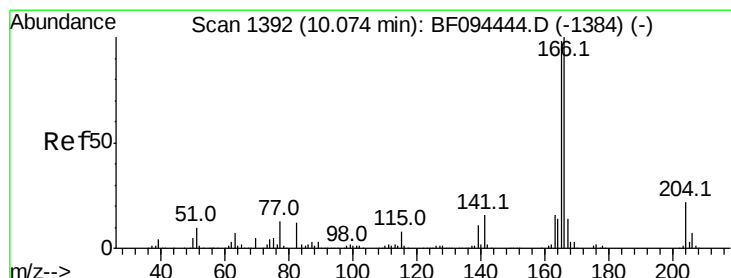
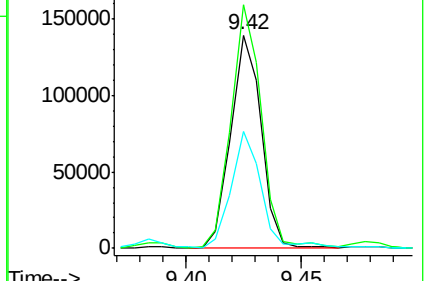
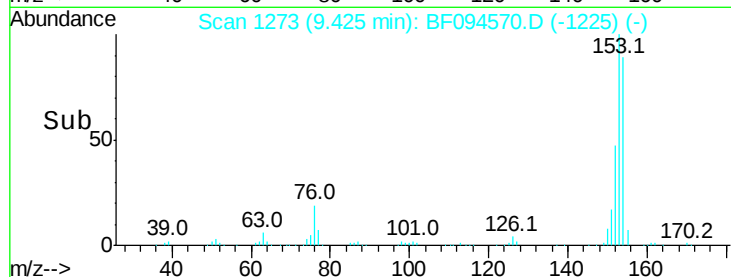
152 54.6 43.6 65.4



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: 10.85 ng

RT: 10.06 min Scan# 1381

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

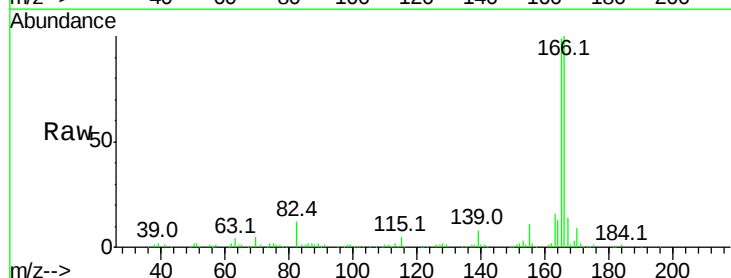
Tgt Ion:166 Resp: 152007

Ion Ratio Lower Upper

166 100

165 99.3 78.8 118.2

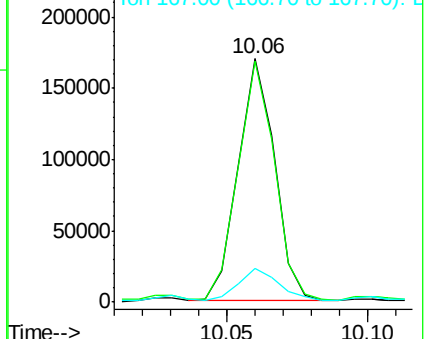
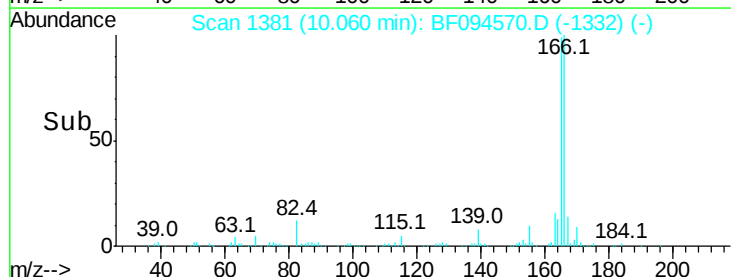
167 13.8 10.6 16.0

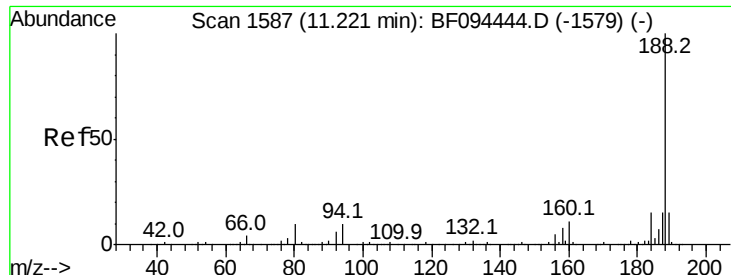


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

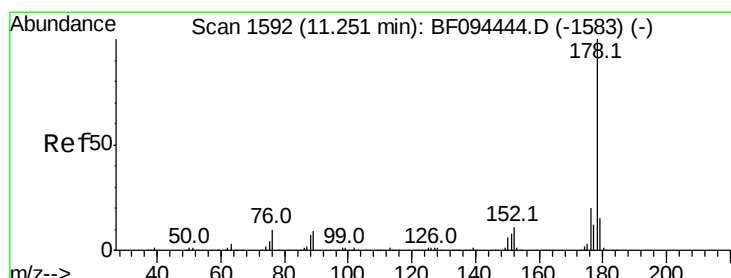
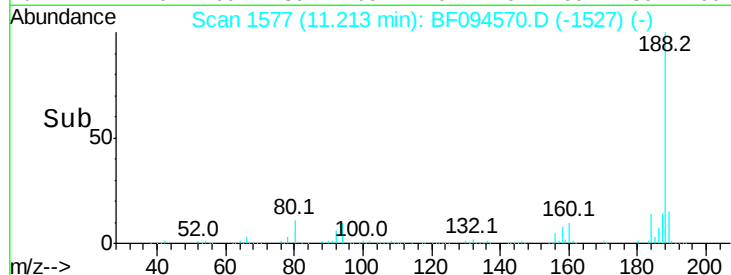
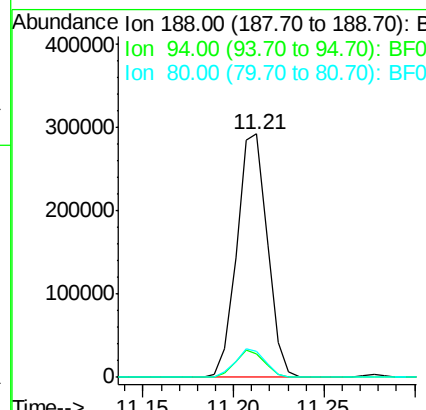
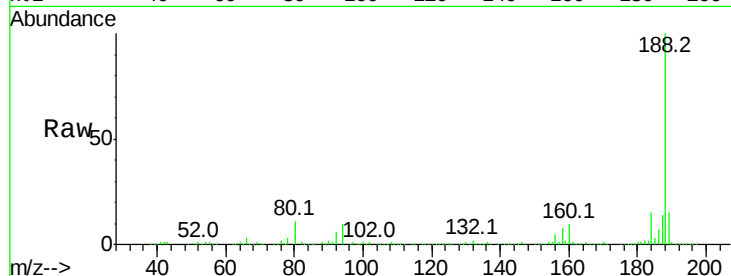




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.21 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

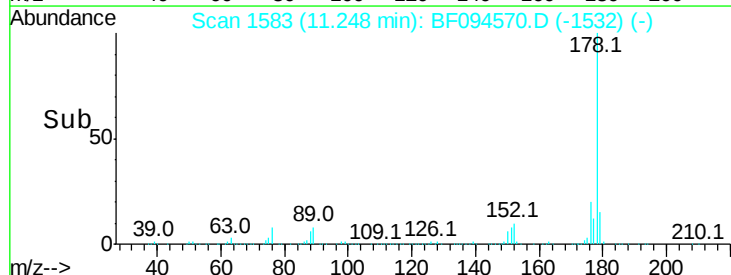
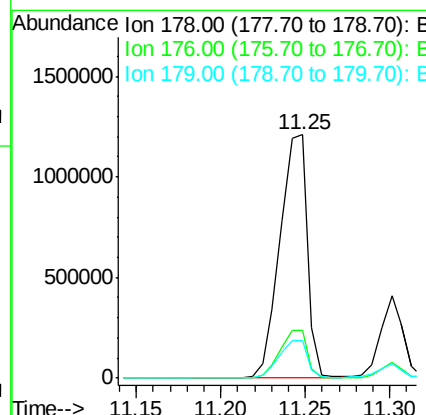
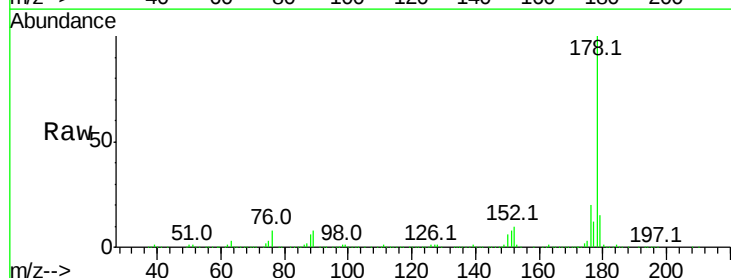
Instrument :
 BNA_F
 ClientSampleId :

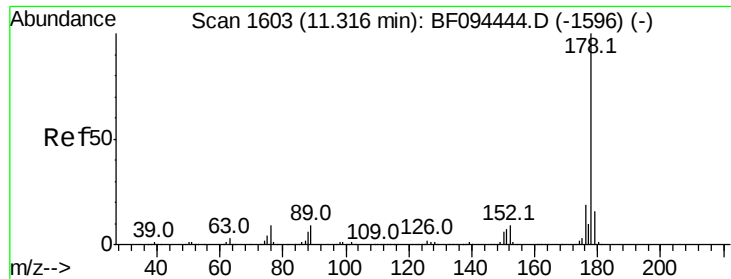
Tot Ion:188 Resp: 342460
 Ion Ratio Lower Upper
 188 100
 94 9.7 9.4 14.2
 80 10.8 10.2 15.2



#70
 Phenanthrene
 Concen: 71.18 ng
 RT: 11.25 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

Tgt Ion:178 Resp: 1372731
 Ion Ratio Lower Upper
 178 100
 176 19.5 16.2 24.4
 179 15.4 12.6 19.0

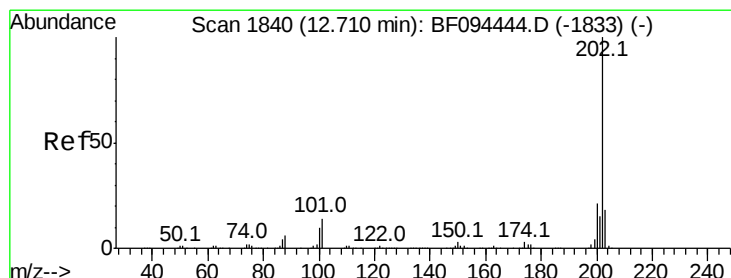
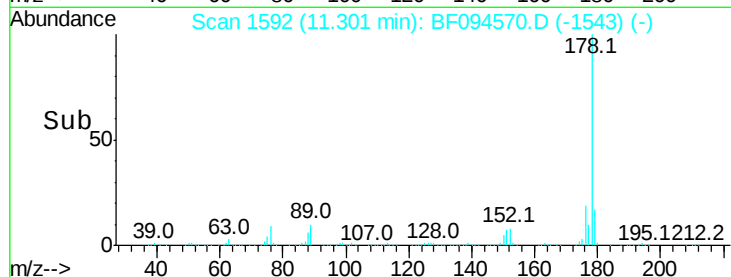
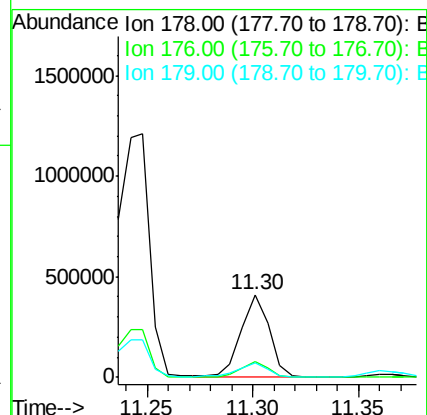
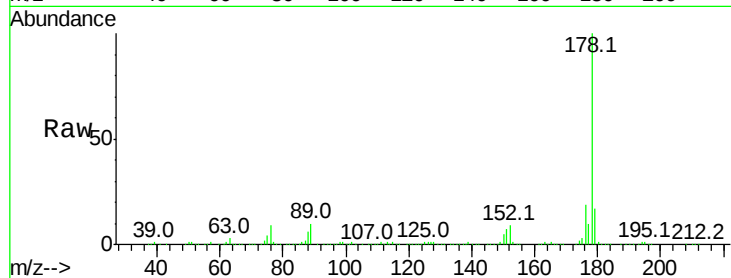




#71
 Anthracene
 Concen: 19.02 ng
 RT: 11.30 min Scan# 1592
 Delta R.T. -0.01 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

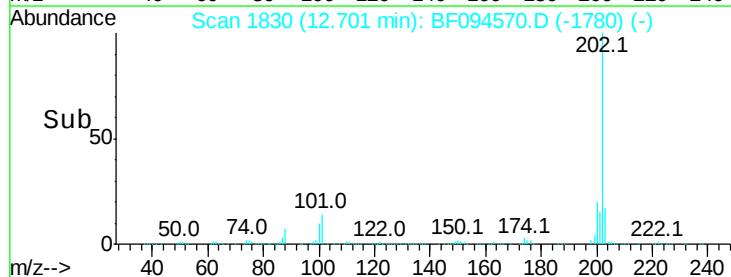
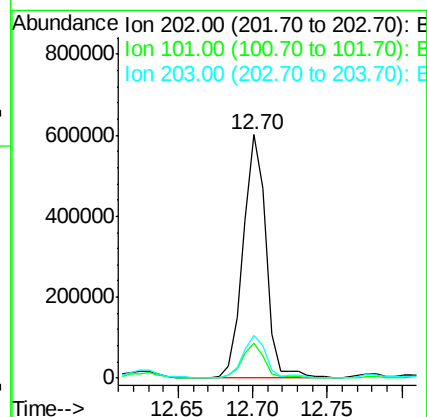
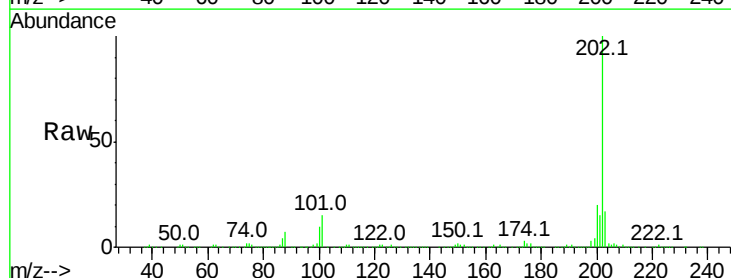
Instrument :
 BNA_F
 ClientSampleId :

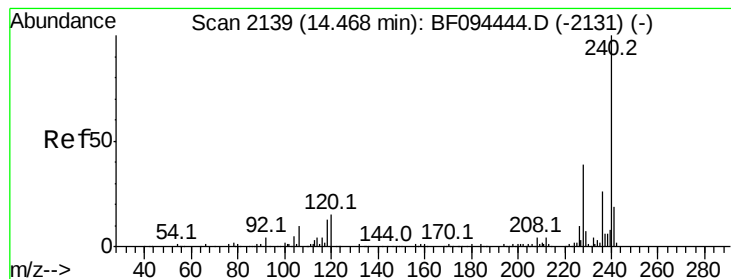
Tot Ion:178 Resp: 379427
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 17.0 12.7 19.1



#74
 Fluoranthene
 Concen: 31.82 ng
 RT: 12.70 min Scan# 1830
 Delta R.T. -0.01 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

Tgt Ion:202 Resp: 635920
 Ion Ratio Lower Upper
 202 100
 101 14.6 0.0 33.2
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampleId :

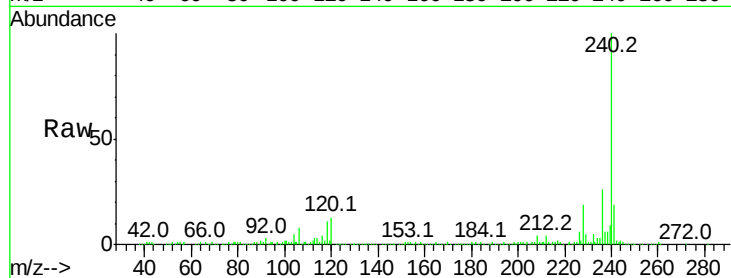
Tot Ion:240 Resp: 265885

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

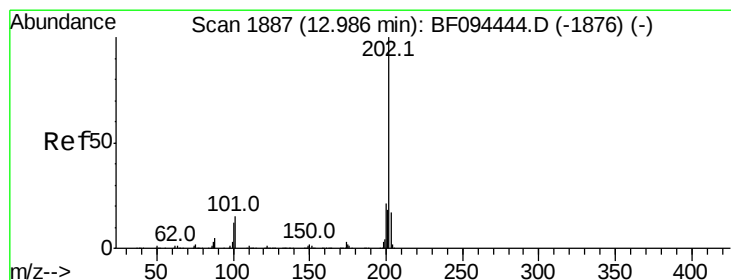
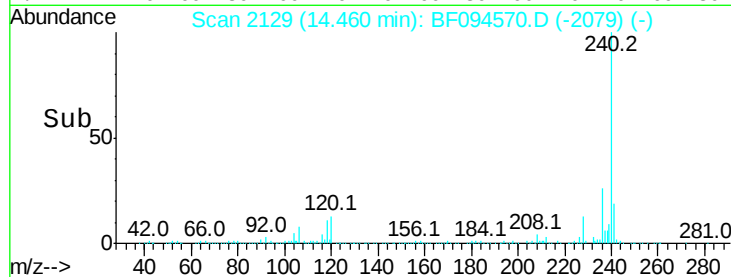
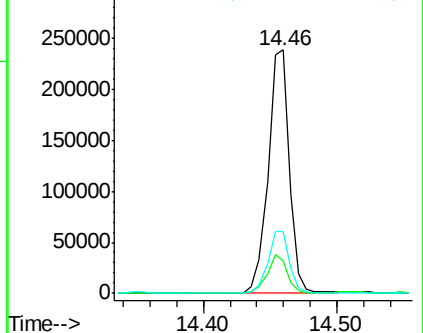
236 25.6 20.5 30.7



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

Pyrene

Concen: 46.15 ng

RT: 12.98 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

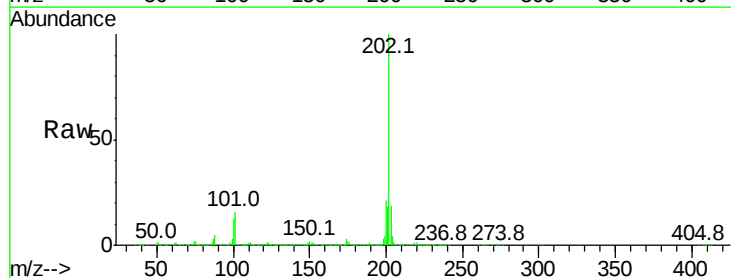
Tgt Ion:202 Resp: 857291

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

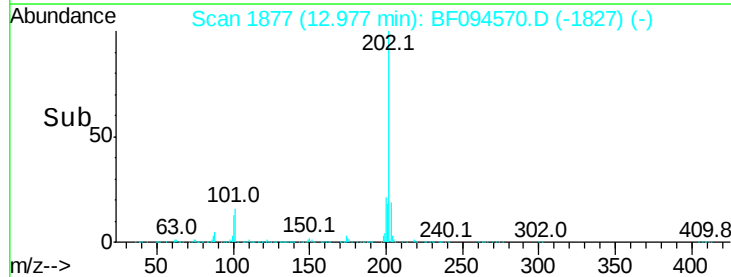
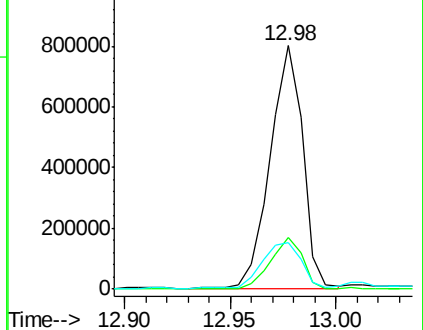
203 19.2 14.4 21.6

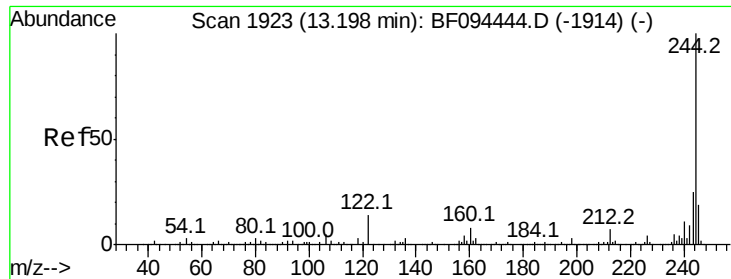


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

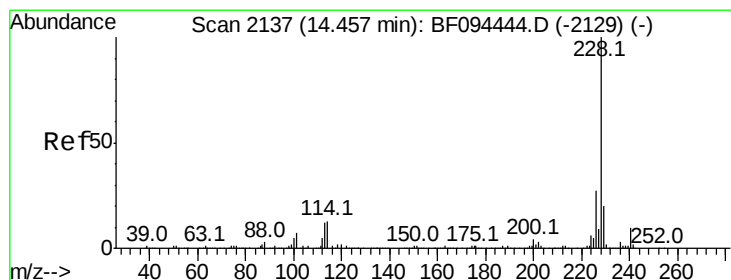
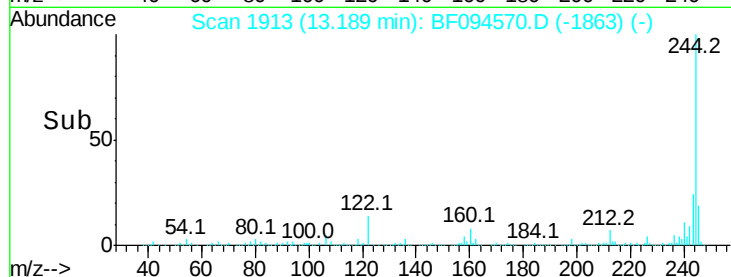
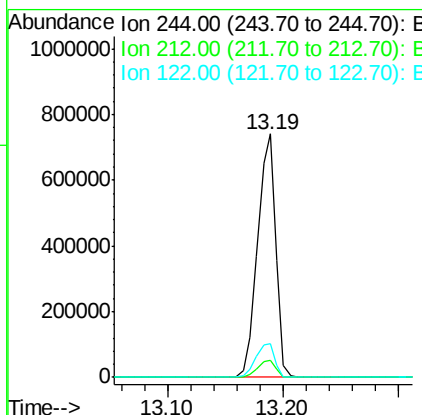
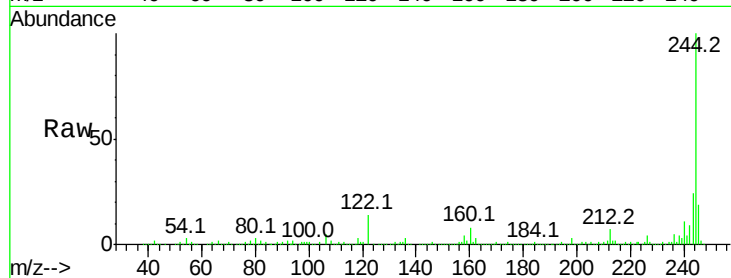




#78
 Terphenyl-d14
 Concen: 82.10 ng
 RT: 13.19 min Scan# 1913
 Delta R.T. -0.01 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

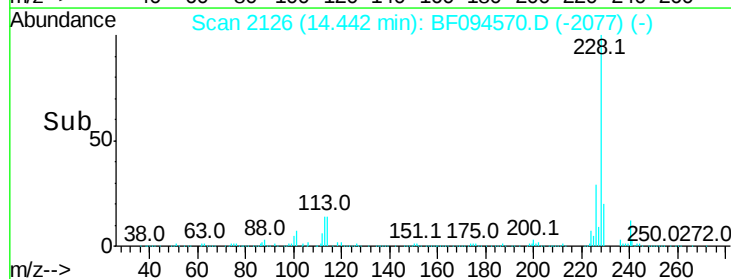
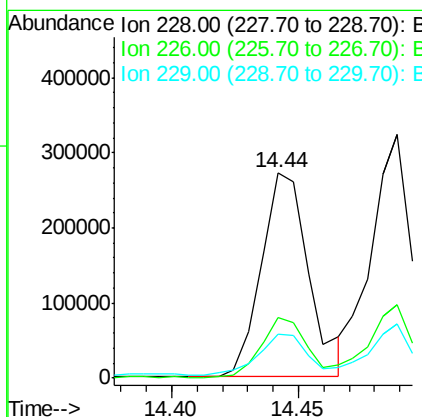
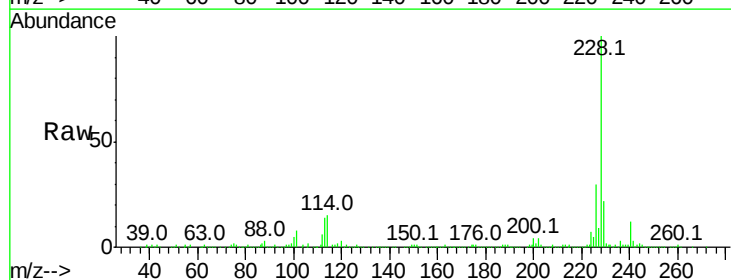
Instrument :
 BNA_F
 ClientSampleId :

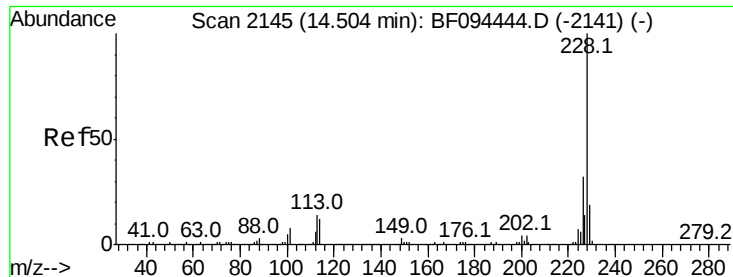
Tot Ion:244 Resp: 816698
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.0 9.0
 122 13.9 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 22.93 ng
 RT: 14.44 min Scan# 2126
 Delta R.T. -0.01 min
 Lab File: BF094570.D
 Acq: 21 Apr 2017 18:46

Tgt Ion:228 Resp: 354365
 Ion Ratio Lower Upper
 228 100
 226 29.7 22.6 33.8
 229 21.6 16.3 24.5

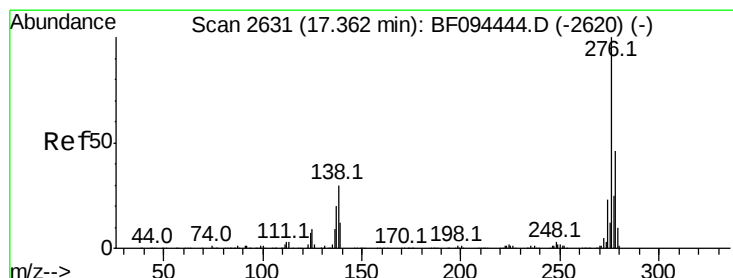
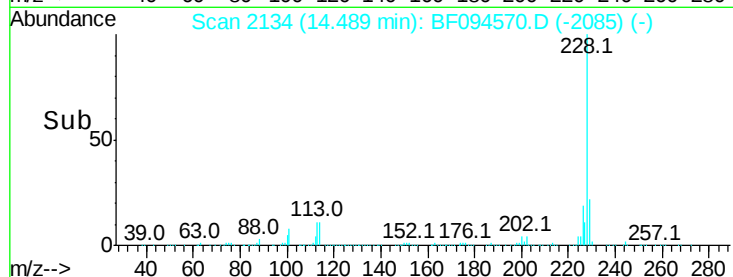
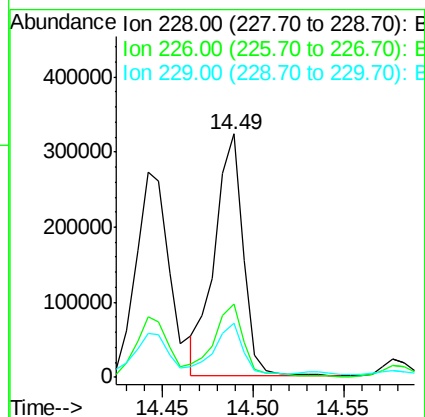
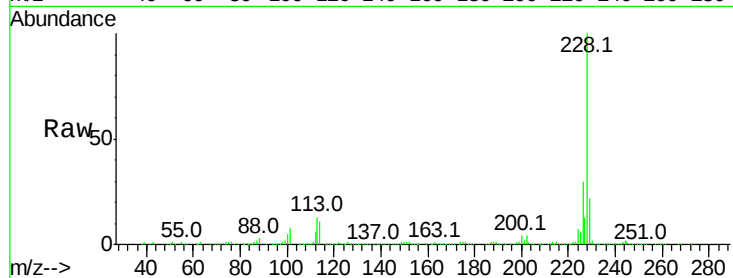




#82
Chrysene
Concen: 25.19 ng
RT: 14.49 min Scan# 2134
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

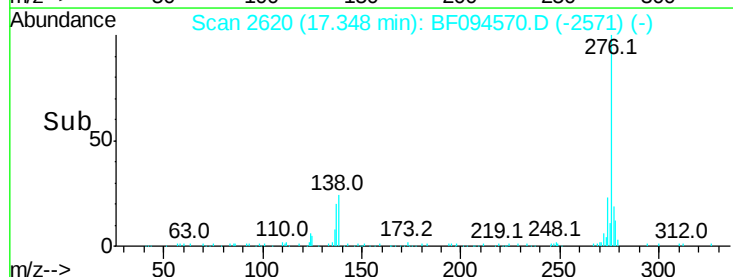
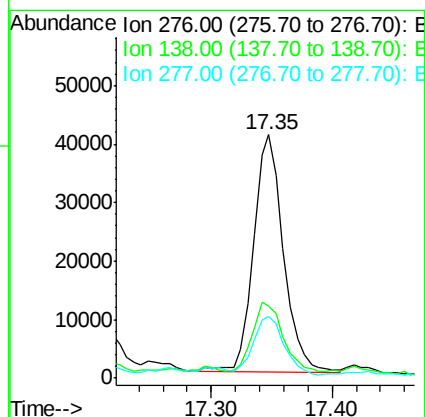
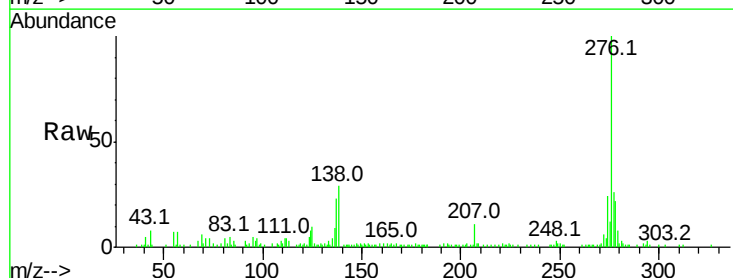
Instrument :
BNA_F
ClientSampleId :

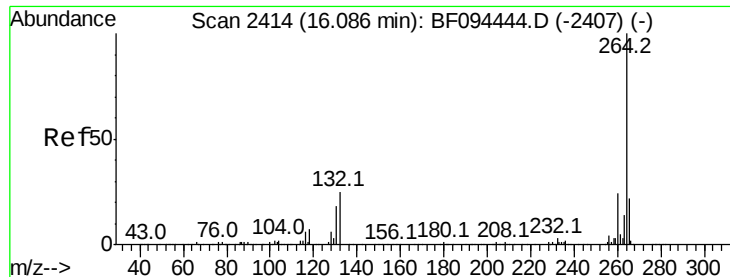
Tot Ion:228 Resp: 355739
Ion Ratio Lower Upper
228 100
226 29.9 24.9 37.3
229 22.1 15.8 23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.25 ng
RT: 17.35 min Scan# 2620
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Tgt Ion:276 Resp: 70493
Ion Ratio Lower Upper
276 100
138 29.4 27.8 41.6
277 24.6 20.2 30.4

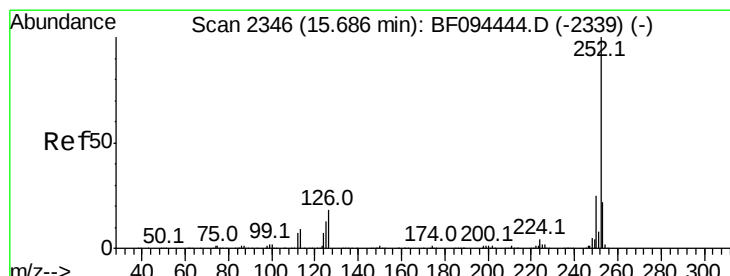
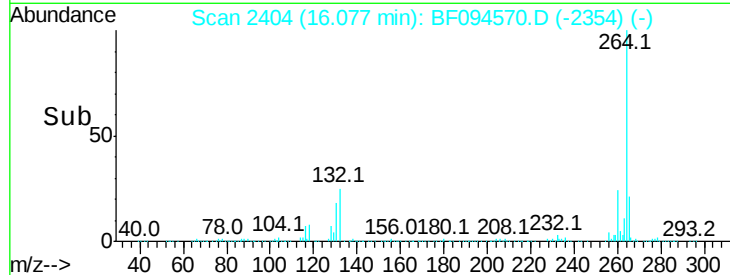
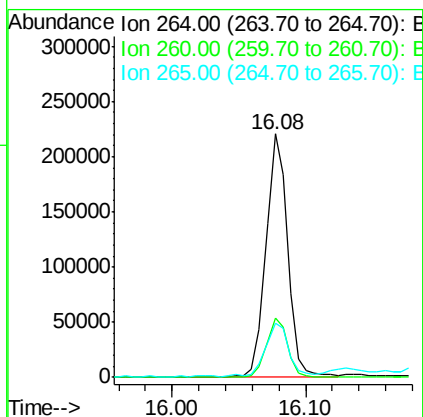
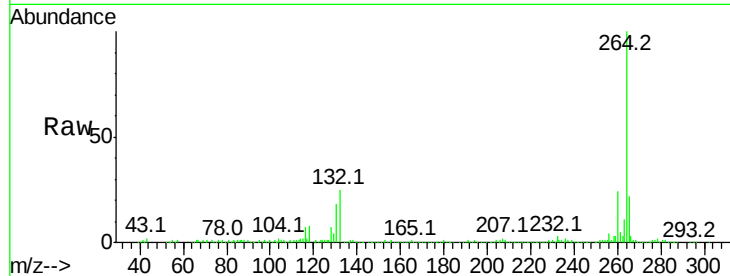




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.08 min Scan# 2404
Delta R.T. -0.01 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

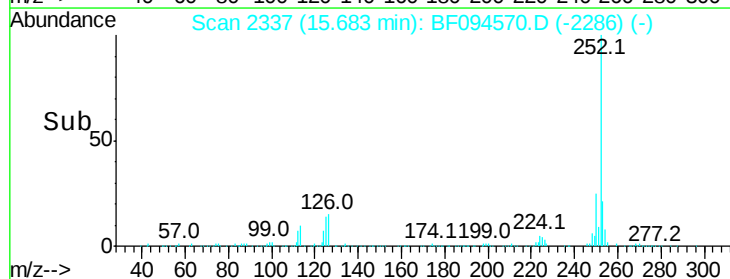
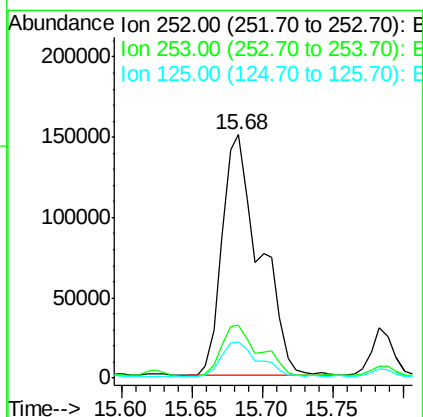
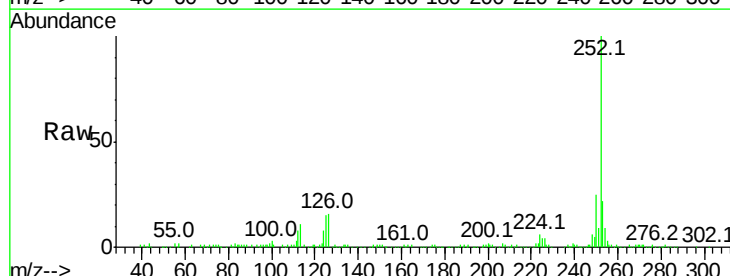
Instrument :
BNA_F
ClientSampled :

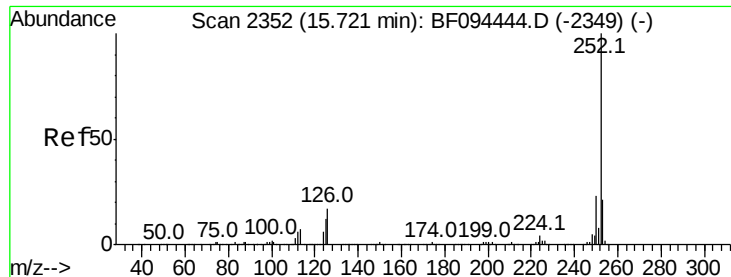
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.0	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 18.24 ng
RT: 15.68 min Scan# 2337
Delta R.T. -0.00 min
Lab File: BF094570.D
Acq: 21 Apr 2017 18:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	15.0	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 19.28 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.04 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampleId :

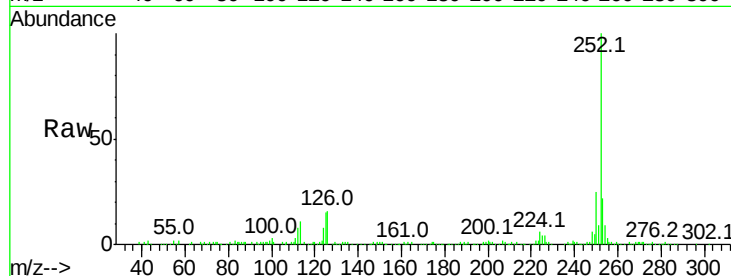
Tot Ion:252 Resp: 279349

Ion Ratio Lower Upper

252 100

253 21.6 18.4 27.6

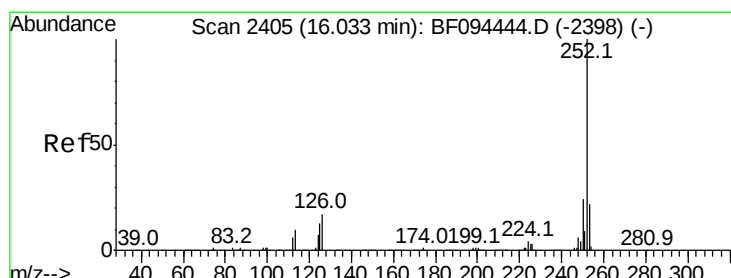
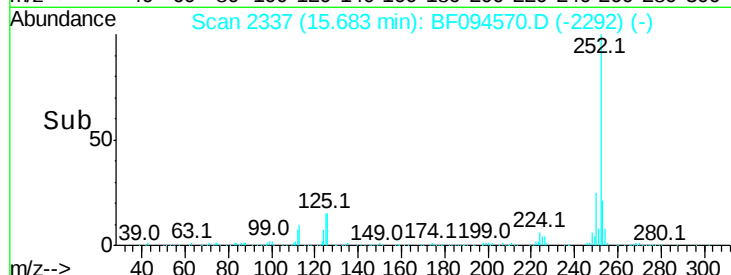
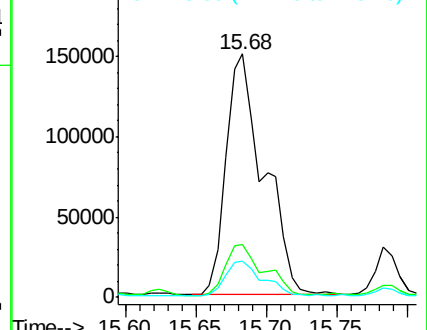
125 15.0 13.1 19.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 14.18 ng

RT: 16.02 min Scan# 2395

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

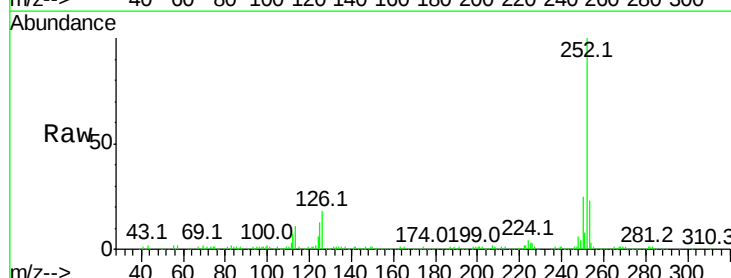
Tgt Ion:252 Resp: 201998

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

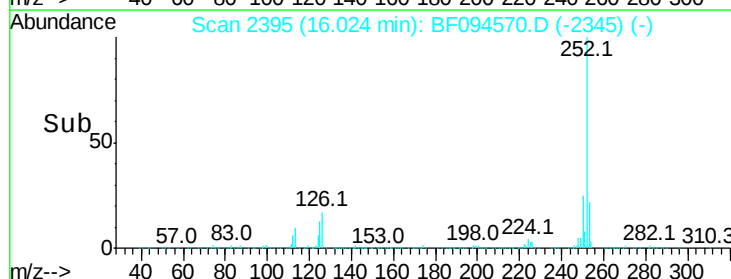
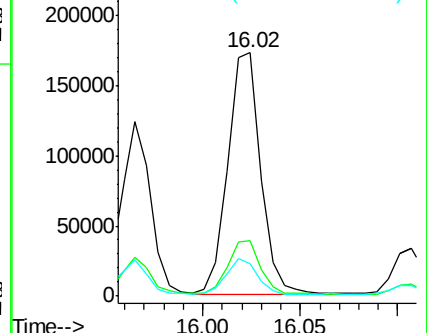
125 13.2 11.0 16.4

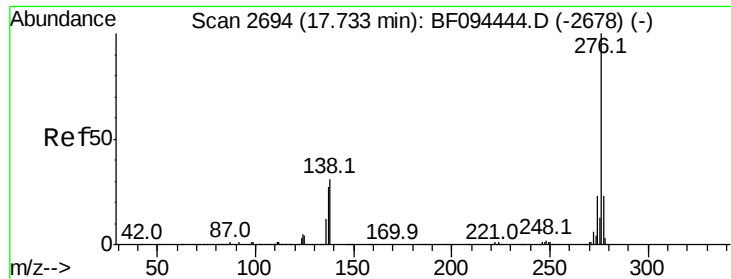


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.30 ng

RT: 17.72 min Scan# 2683

Delta R.T. -0.01 min

Lab File: BF094570.D

Acq: 21 Apr 2017 18:46

Instrument :

BNA_F

ClientSampleId :

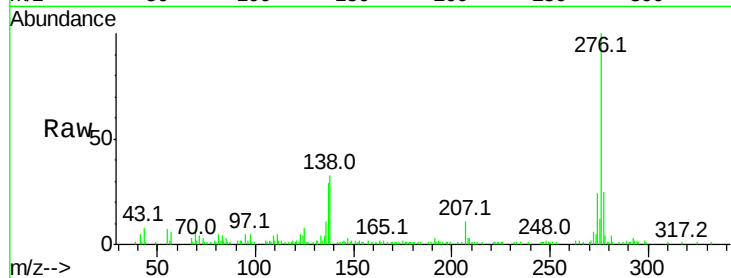
Tot Ion: 276 Resp: 75848

Ion Ratio Lower Upper

276 100

277 25.2 18.6 28.0

138 32.5 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

