

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041615\
 Data File : BF078571.D
 Acq On : 16 Apr 2015 17:54
 Operator : TP/IZ
 Sample : G1828-08RE
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02BRE

Quant Time: Apr 17 02:00:04 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 17 00:52:22 2015
 Response via : Initial Calibration

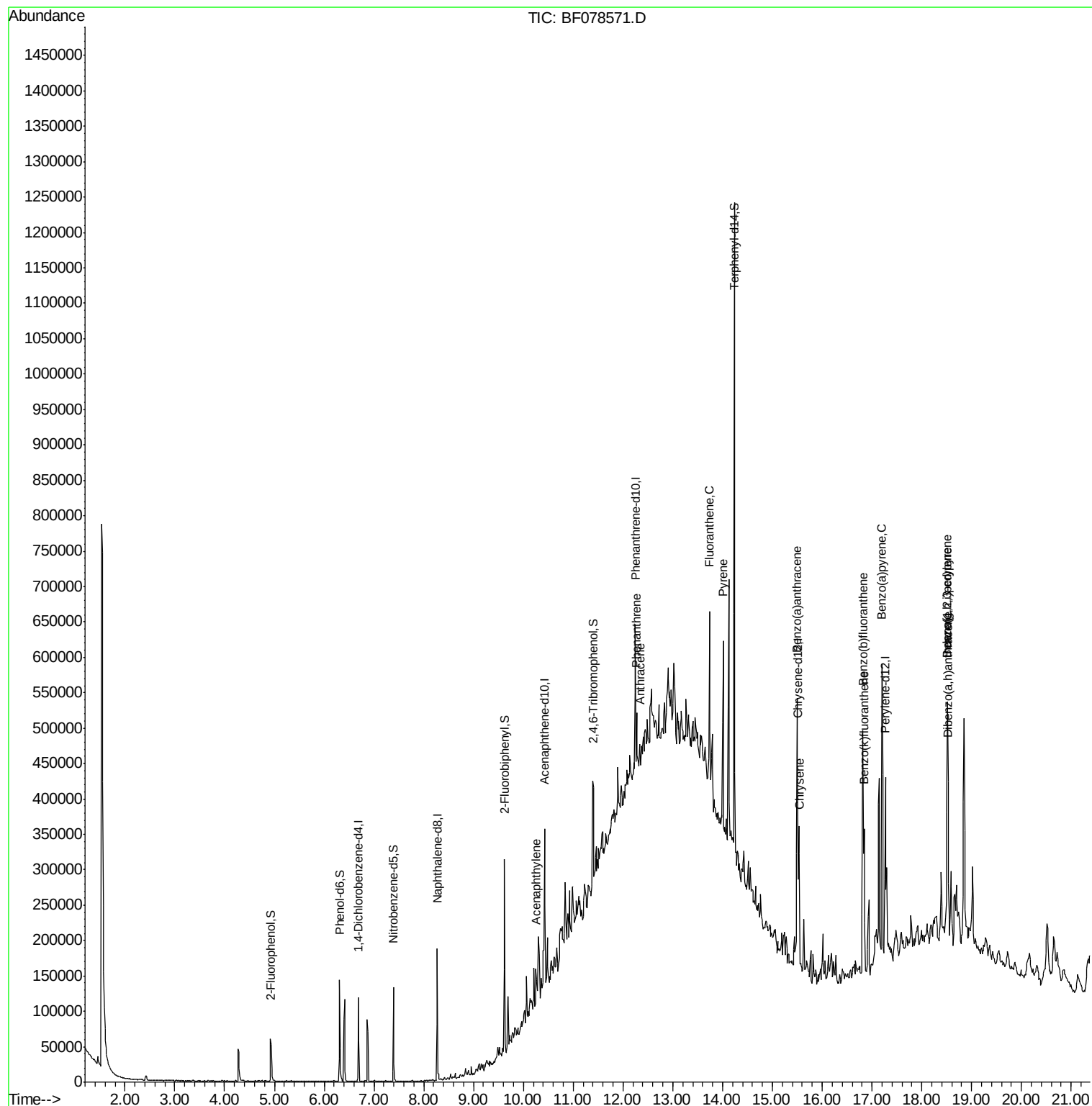
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	22292	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	95460	20.00	ng	0.00
38) Acenaphthene-d10	10.42	164	48162	20.00	ng	0.00
63) Phenanthrene-d10	12.25	188	94888	20.00	ng	0.01
75) Chrysene-d12	15.51	240	107540	20.00	ng	0.02
86) Perylene-d12	17.27	264	116778	20.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	4.94	112	31201m	23.08	ng	0.03
7) Phenol-d6	6.31	99	63366	37.40	ng	0.01
23) Nitrobenzene-d5	7.39	82	43303	27.50	ng	0.00
41) 2,4,6-Tribromophenol	11.41	330	22696	56.82	ng	0.01
44) 2-Fluorobiphenyl	9.62	172	95339	28.30	ng	0.00
78) Terphenyl-d14	14.24	244	346901	72.89	ng	0.01
Target Compounds						Qvalue
48) Acenaphthylene	10.25	152	12038	2.41	ng	# 87
70) Phenanthrene	12.27	178	36069	6.57	ng	# 95
71) Anthracene	12.34	178	13850	2.56	ng	# 76
74) Fluoranthene	13.74	202	105760	18.27	ng	# 98
77) Pyrene	14.01	202	130240	19.29	ng	# 94
80) Benzo(a)anthracene	15.50	228	140907	22.02	ng	# 96
82) Chrysene	15.54	228	98016m	16.30	ng	
85) Indeno(1,2,3-cd)pyrene	18.51	276	216156m	31.69	ng	
87) Benzo(b)fluoranthene	16.82	252	247430m	34.28	ng	
88) Benzo(k)fluoranthene	16.85	252	82285m	12.83	ng	
89) Benzo(a)pyrene	17.20	252	221896	35.23	ng	# 92
90) Dibenzo(a,h)anthracene	18.53	278	39774m	6.31	ng	
91) Benzo(g,h,i)perylene	18.51	276	212343m	33.58	ng	

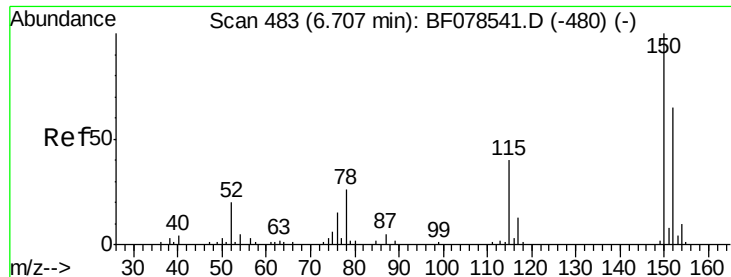
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 481

Delta R.T. 0.00 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

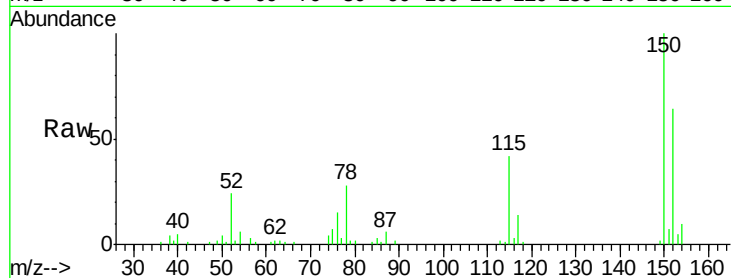
Tgt Ion:152 Resp: 22292

Ion Ratio Lower Upper

152 100

150 156.5 125.9 188.9

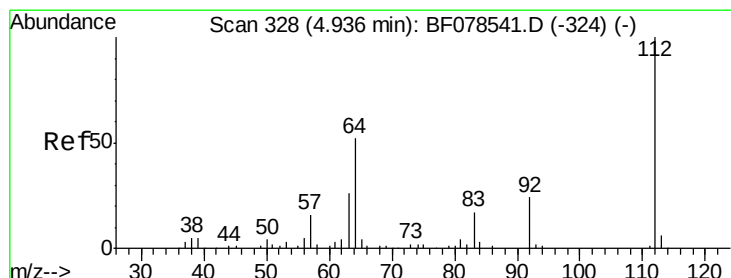
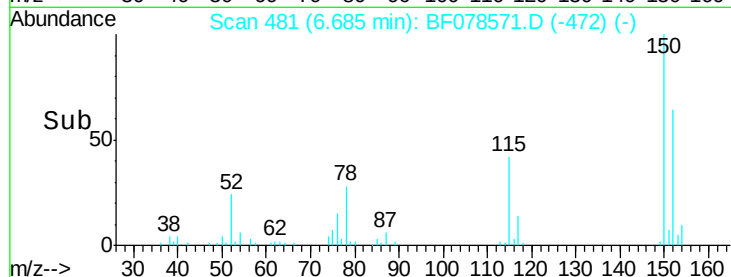
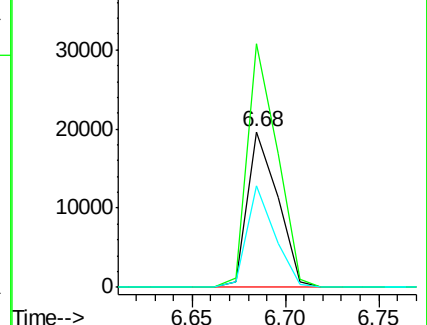
115 65.1 52.7 79.1



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: 23.08 ng m

RT: 4.94 min Scan# 328

Delta R.T. 0.03 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

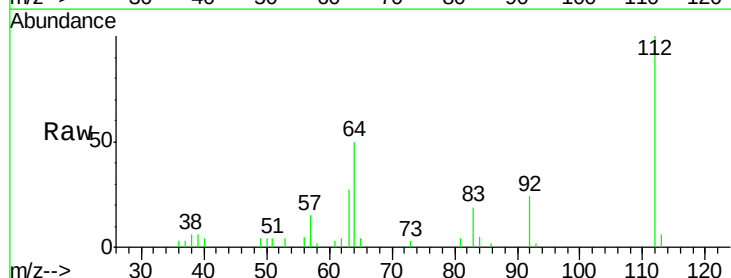
Tgt Ion:112 Resp: 31201

Ion Ratio Lower Upper

112 100

64 49.6 39.9 59.9

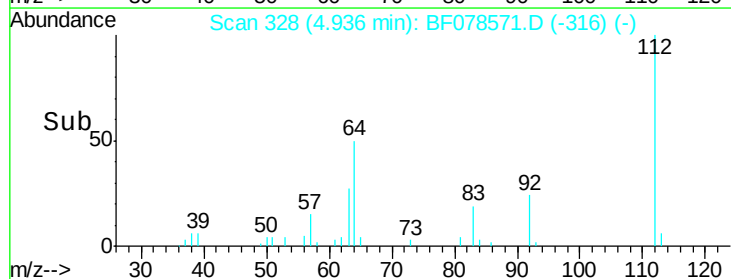
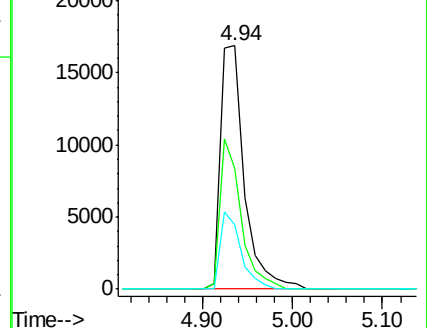
63 26.5 20.2 30.4

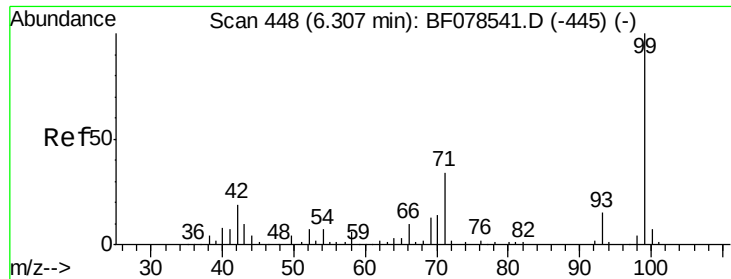


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 37.40 ng

RT: 6.31 min Scan# 448

Delta R.T. 0.01 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

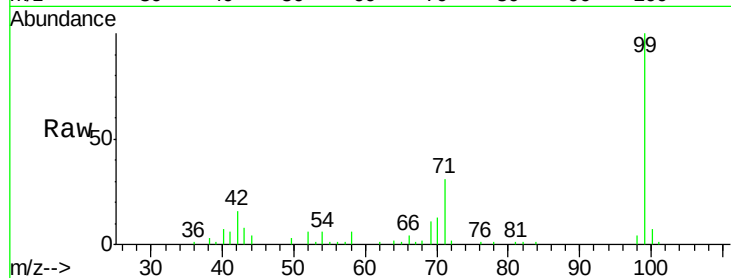
Tgt Ion: 99 Resp: 63366

Ion Ratio Lower Upper

99 100

42 16.0 14.8 22.2

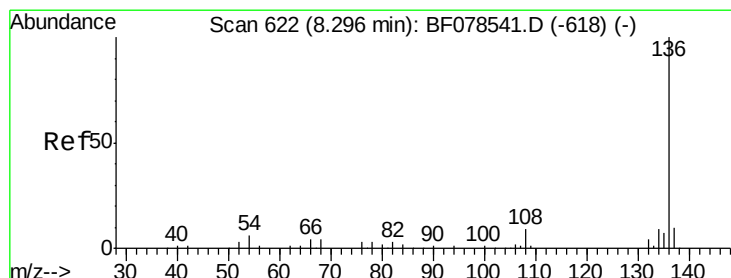
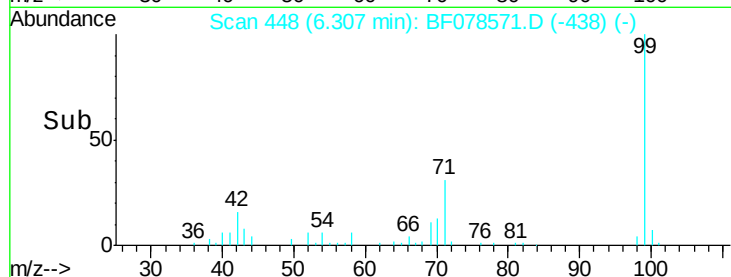
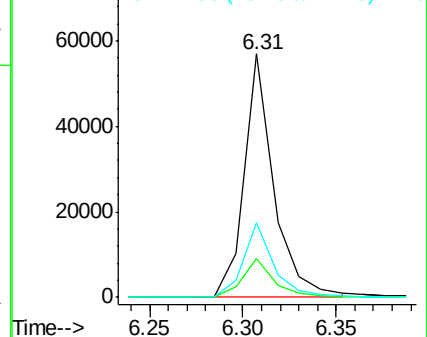
71 30.5 26.6 39.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.27 min Scan# 620

Delta R.T. 0.00 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Tgt Ion: 136 Resp: 95460

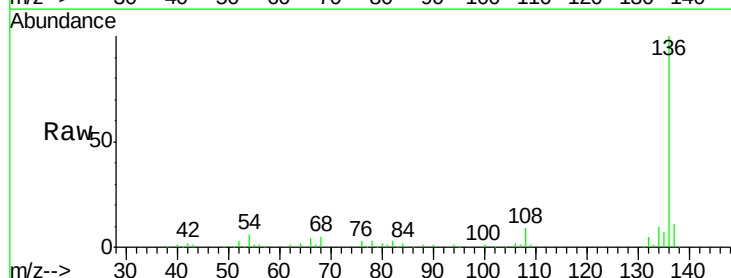
Ion Ratio Lower Upper

136 100

137 10.6 9.0 13.4

54 6.3 7.0 10.6#

68 4.7 5.4 8.2#

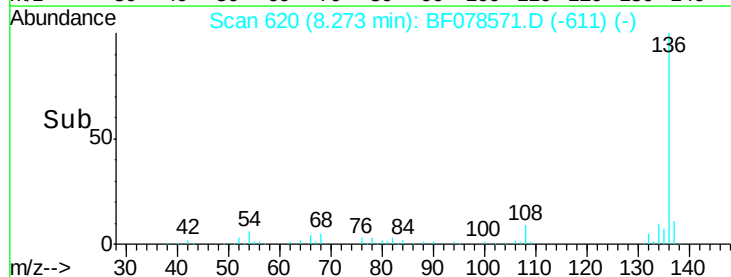
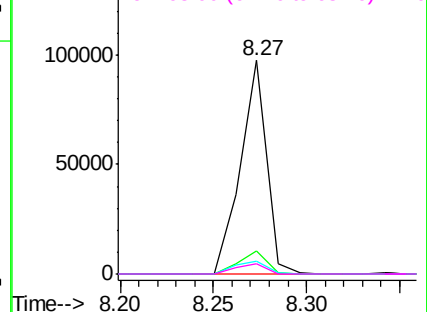


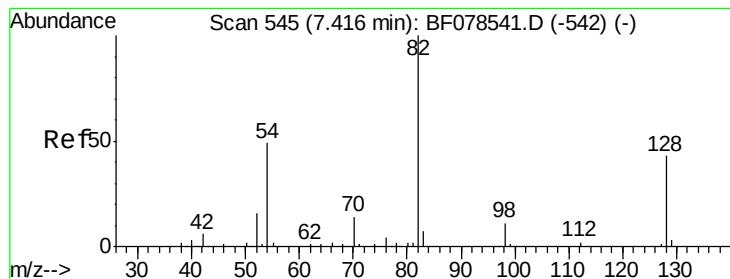
Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.50 ng

RT: 7.39 min Scan# 543

Delta R.T. 0.00 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

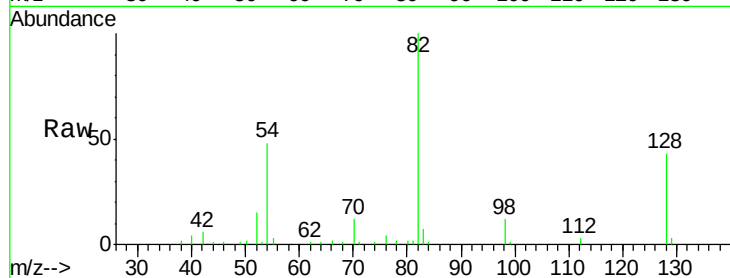
Tgt Ion: 82 Resp: 43303

Ion Ratio Lower Upper

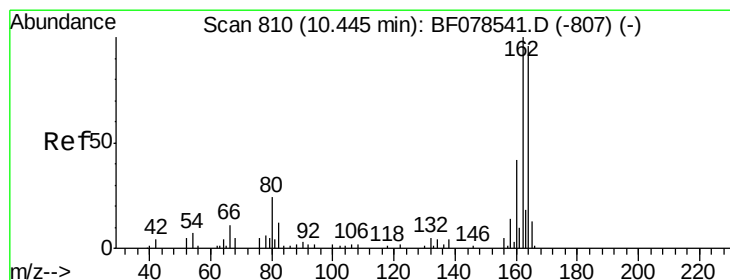
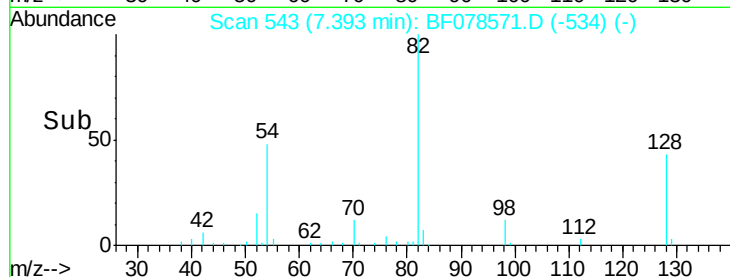
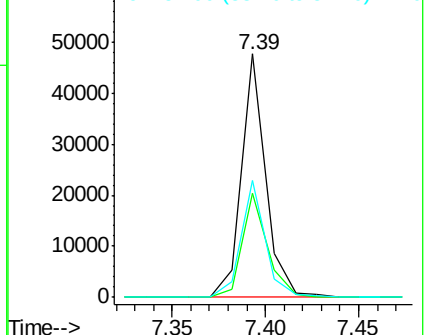
82 100

128 42.8 31.8 47.8

54 47.9 41.5 62.3



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.42 min Scan# 808

Delta R.T. 0.00 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

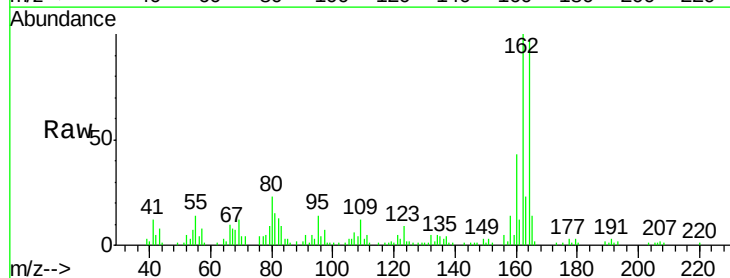
Tgt Ion: 164 Resp: 48162

Ion Ratio Lower Upper

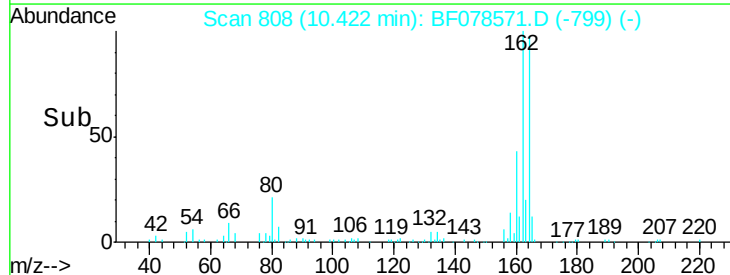
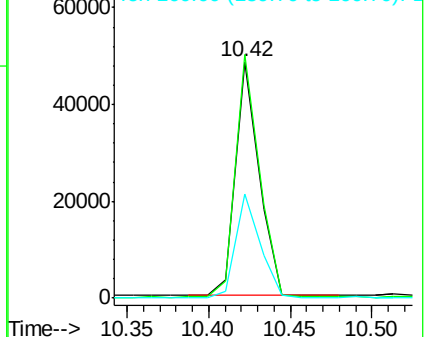
164 100

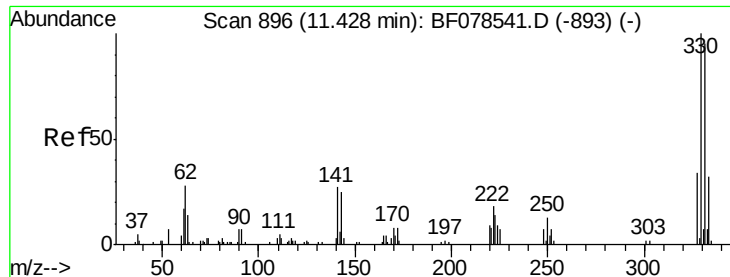
162 102.9 82.2 123.2

160 43.9 34.7 52.1



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

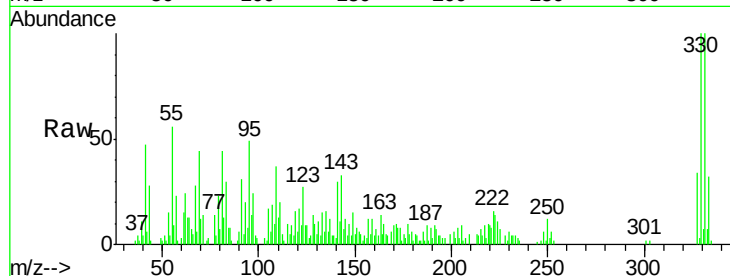




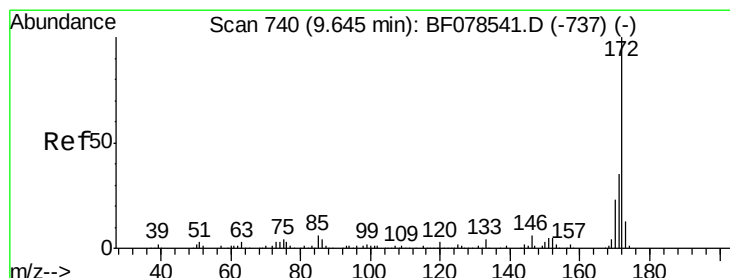
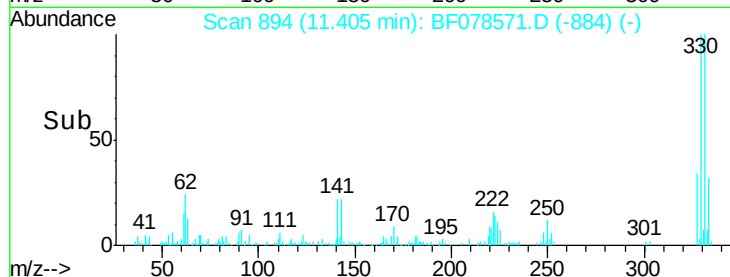
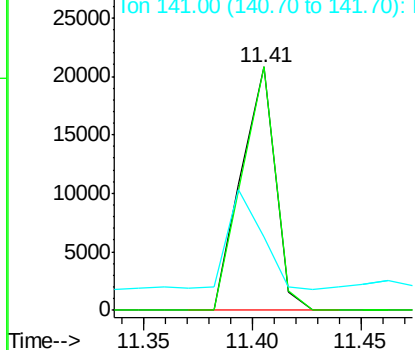
#41
 2,4,6-Tribromophenol
 Concen: 56.82 ng
 RT: 11.41 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02BRE

Tgt Ion:330 Resp: 22696
 Ion Ratio Lower Upper
 330 100
 332 98.9 78.6 117.8
 141 47.4 31.2 46.8#

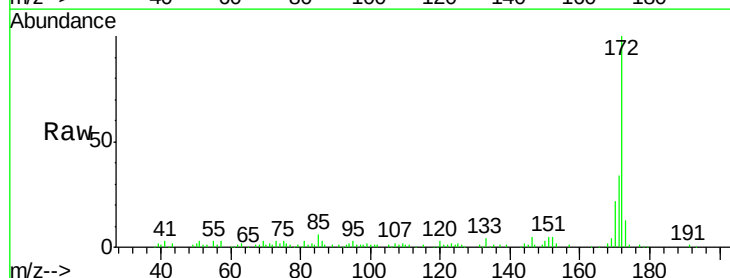


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

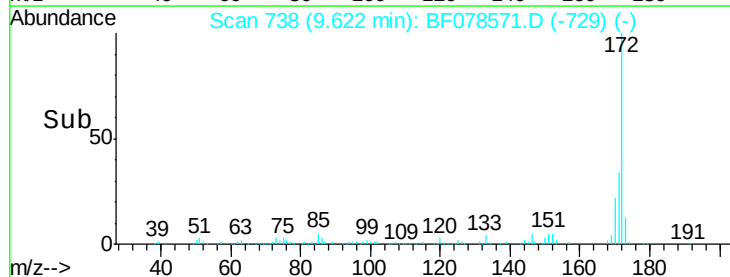
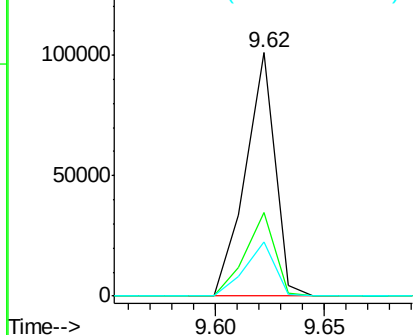


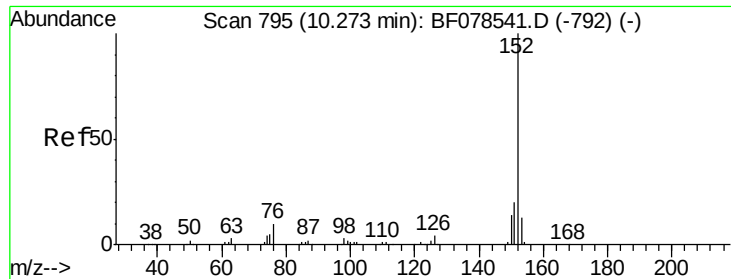
#44
 2-Fluorobiphenyl
 Concen: 28.30 ng
 RT: 9.62 min Scan# 738
 Delta R.T. 0.00 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

Tgt Ion:172 Resp: 95339
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.6 42.8
 170 22.4 18.5 27.7



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





#48

Acenaphthylene

Concen: 2.41 ng

RT: 10.25 min Scan# 793

Delta R.T. 0.00 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

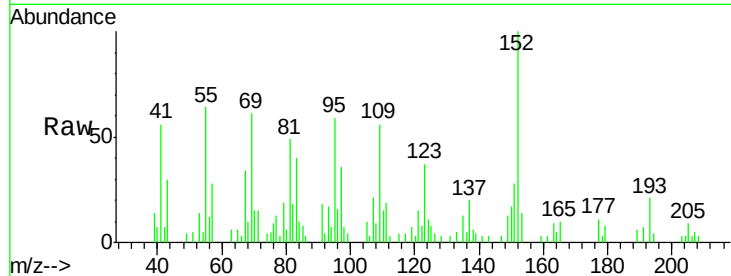
Tgt Ion:152 Resp: 12038

Ion Ratio Lower Upper

152 100

151 27.9 15.7 23.5#

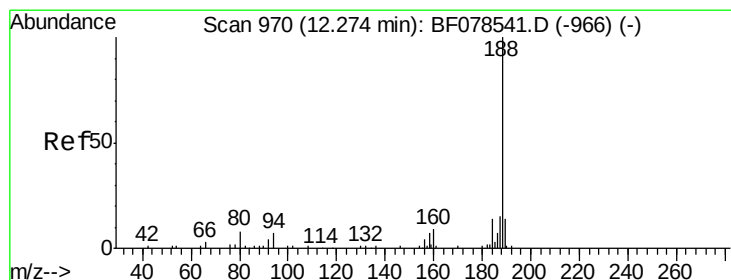
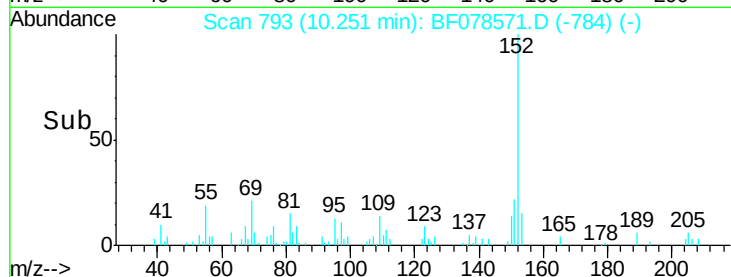
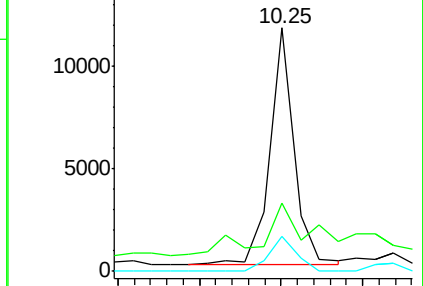
153 14.4 10.2 15.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.25 min Scan# 968

Delta R.T. 0.01 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

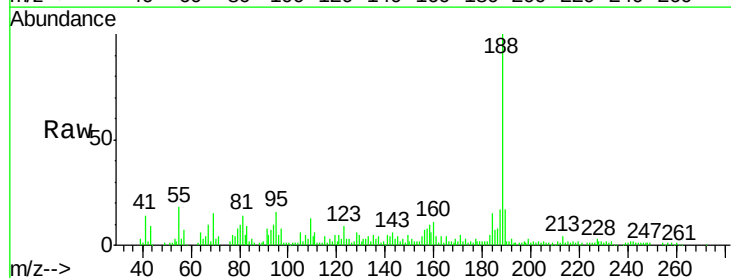
Tgt Ion:188 Resp: 94888

Ion Ratio Lower Upper

188 100

94 10.3 9.0 13.4

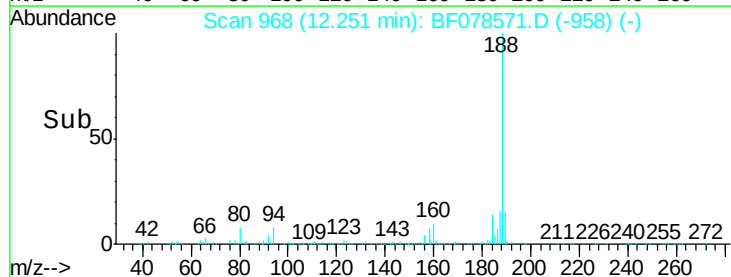
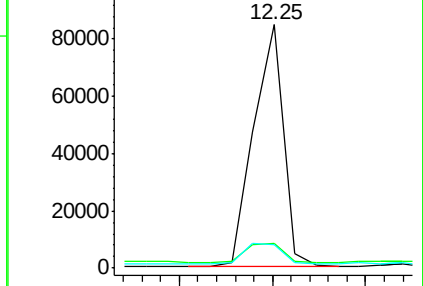
80 9.9 9.5 14.3

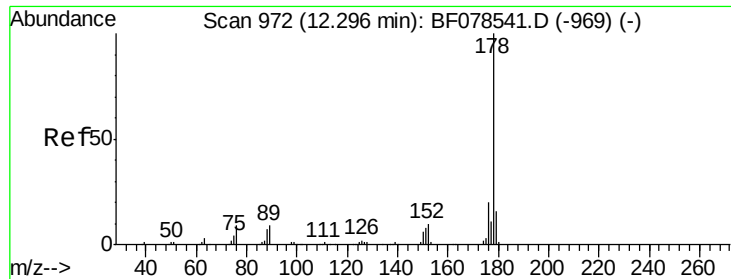


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 6.57 ng

RT: 12.27 min Scan# 970

Delta R.T. 0.00 min

Lab File: BF078571.D

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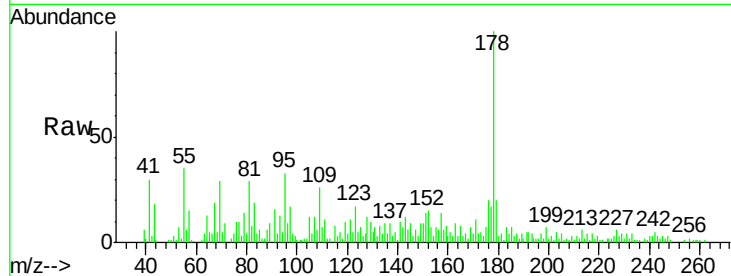
Tgt Ion:178 Resp: 36069

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.0

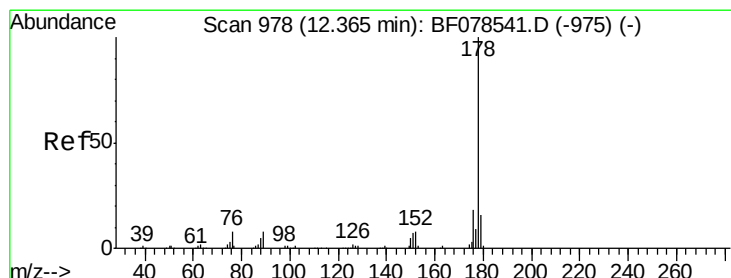
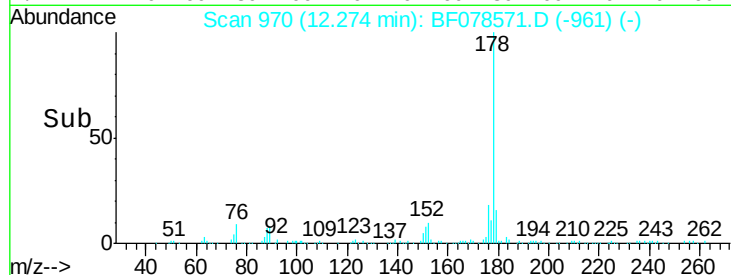
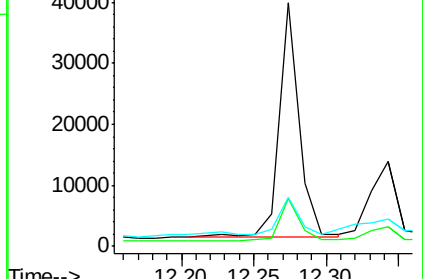
179 19.9 12.2 18.2#



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: 2.56 ng

RT: 12.34 min Scan# 976

Delta R.T. 0.01 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

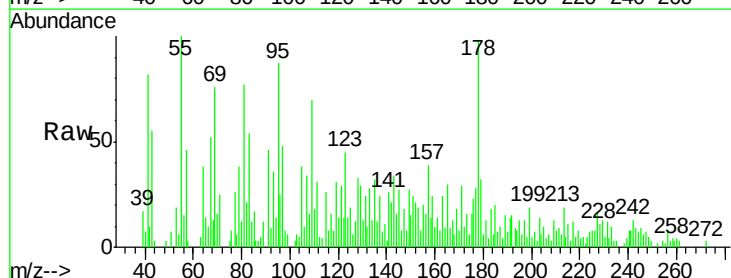
Tgt Ion:178 Resp: 13850

Ion Ratio Lower Upper

178 100

176 23.1 14.8 22.2#

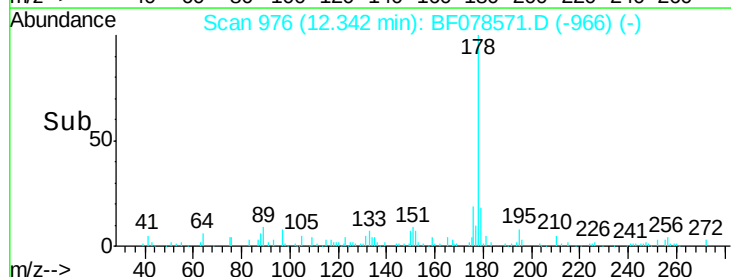
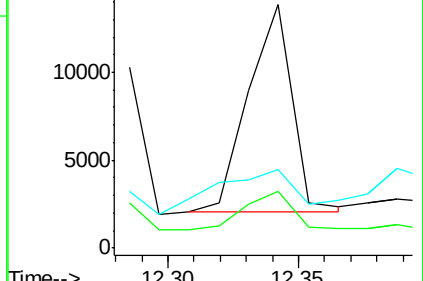
179 32.4 12.4 18.6#

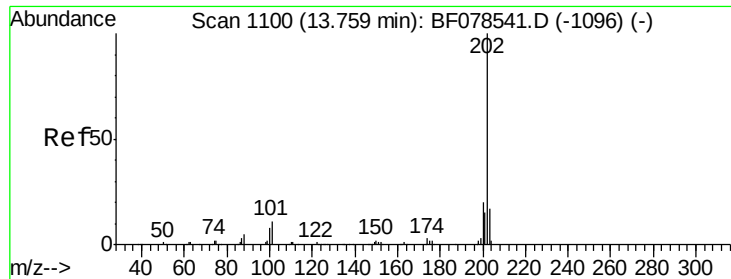


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

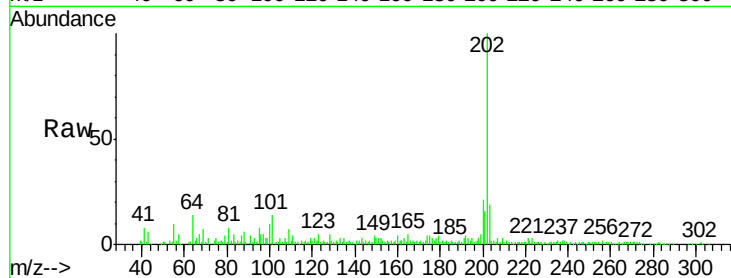




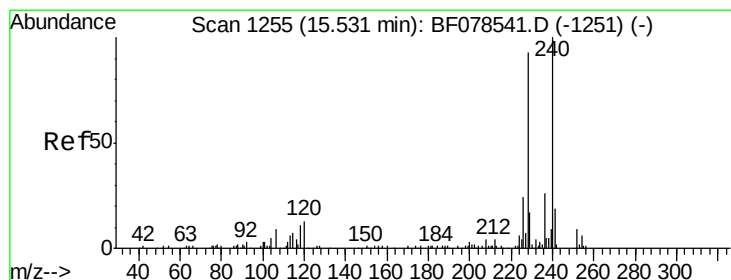
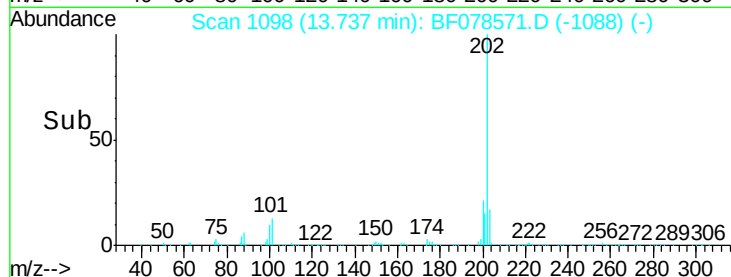
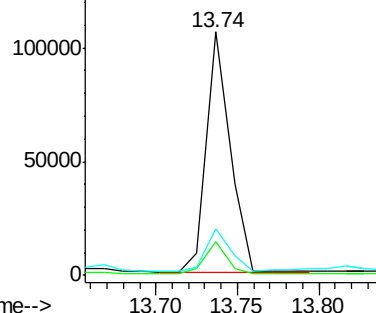
#74
Fluoranthene
Concen: 18.27 ng
RT: 13.74 min Scan# 1098
Delta R.T. 0.01 min
Lab File: BF078571.D
Acq: 16 Apr 2015 17:54

Instrument :
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Tgt Ion:	202	Resp:	105760
Ion	Ratio	Lower	Upper
202	100		
101	13.8	0.0	35.2
203	19.1	0.0	38.5

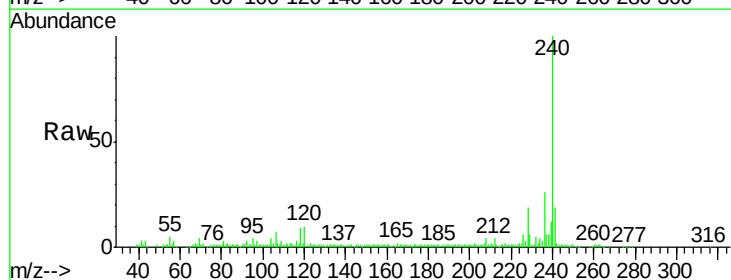


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

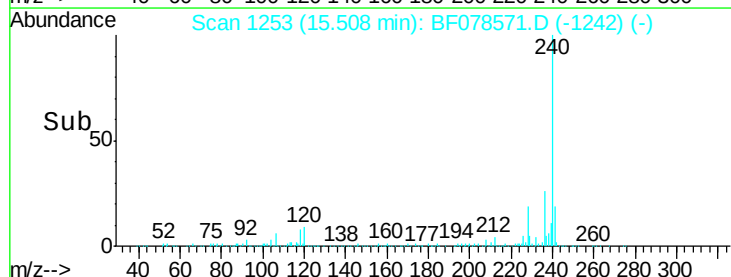
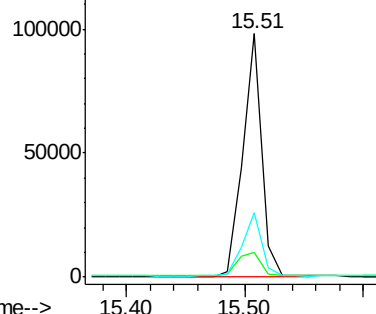


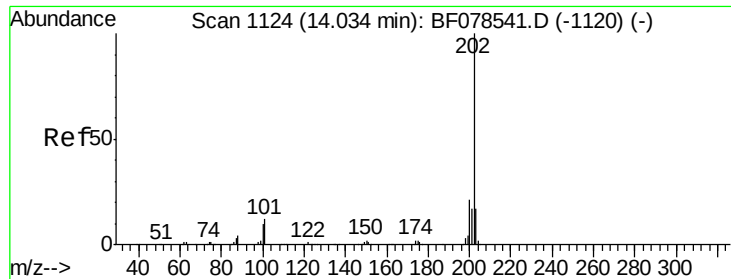
#75
Chrysene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1253
Delta R.T. 0.02 min
Lab File: BF078571.D
Acq: 16 Apr 2015 17:54

Tgt Ion:	240	Resp:	107540
Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.1	10.7
236	26.3	21.4	32.2



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

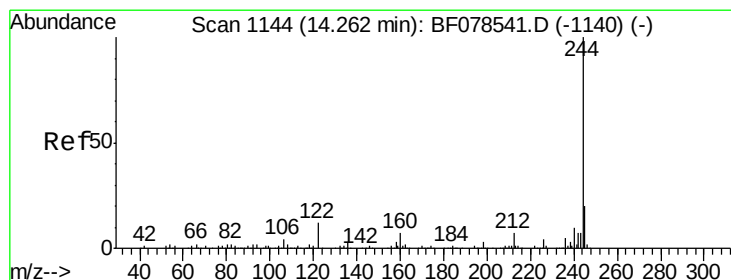
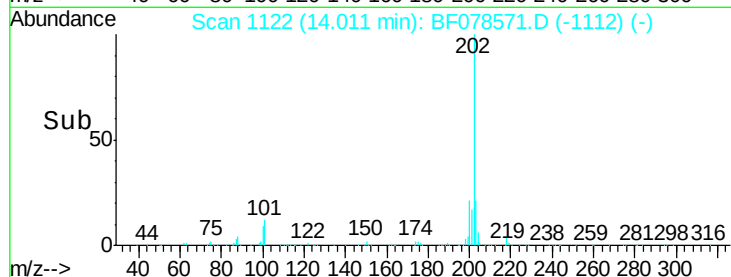
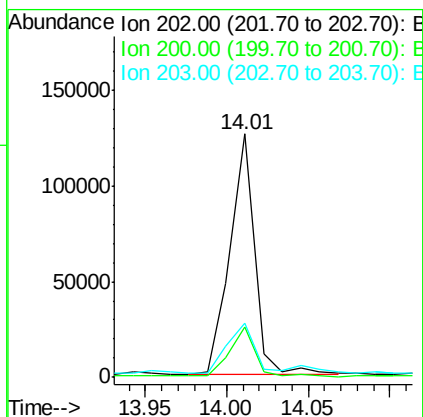
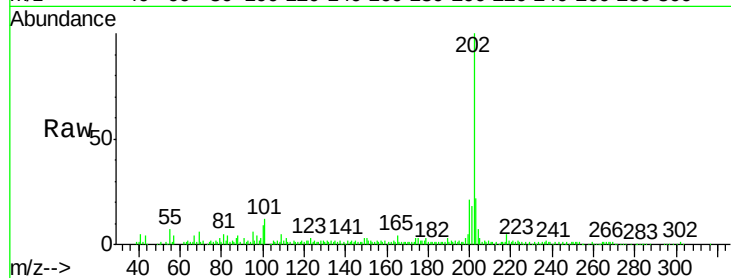




#77
 Pyrene
 Concen: 19.29 ng
 RT: 14.01 min Scan# 1122
 Delta R.T. 0.01 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

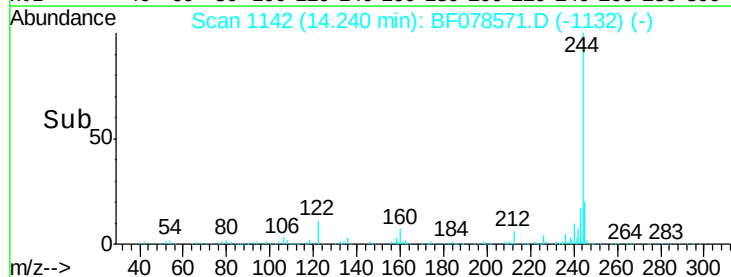
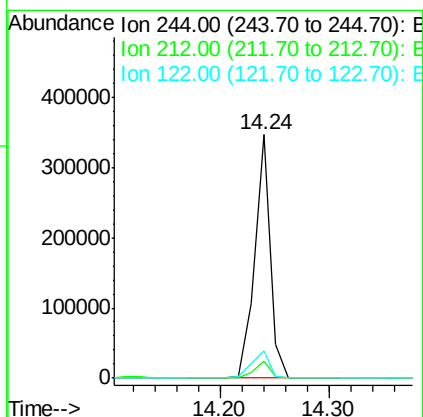
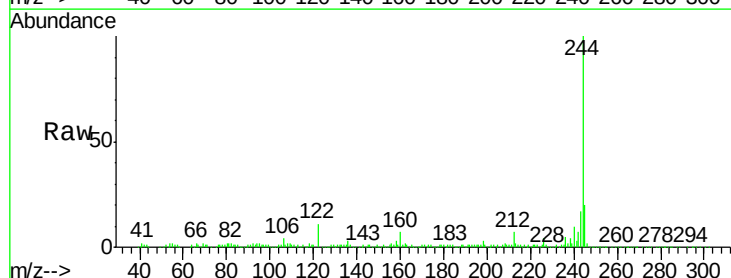
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02BRE

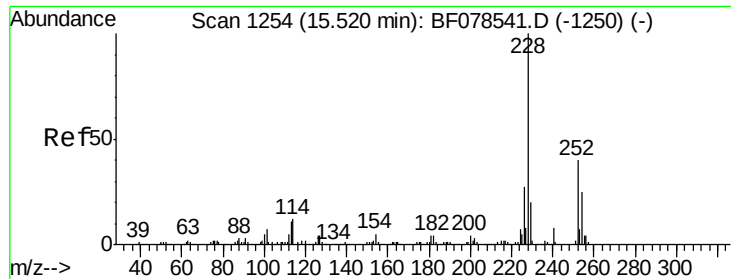
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.3	24.5
203	22.4	13.8	20.6



#78
 Terphenyl-d14
 Concen: 72.89 ng
 RT: 14.24 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.0	7.4
122	11.2	7.1	10.7





#80

Benzo(a)anthracene

Concen: 22.02 ng

RT: 15.50 min Scan# 1252

Delta R.T. 0.02 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

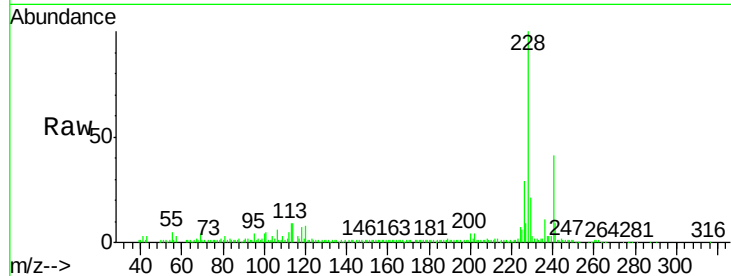
Tgt Ion:228 Resp: 140907

Ion Ratio Lower Upper

228 100

226 28.6 21.3 31.9

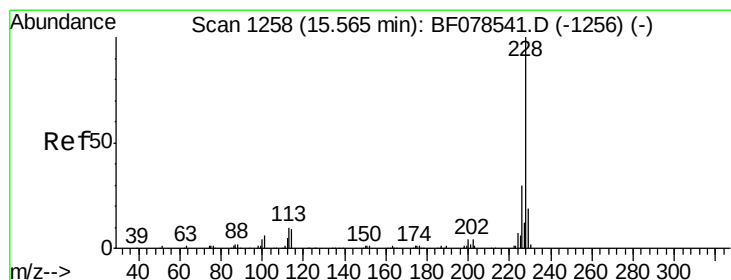
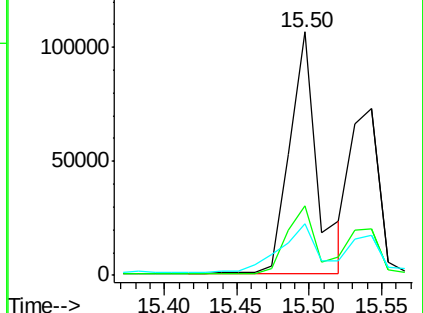
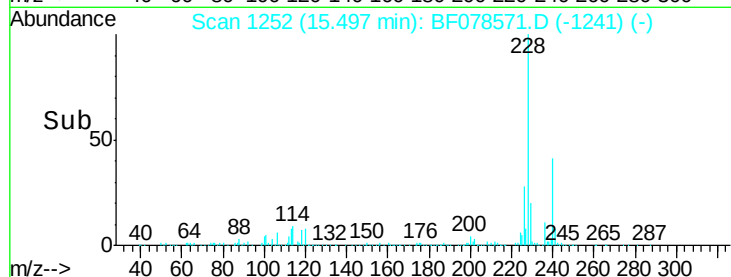
229 21.2 15.4 23.2



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



#82

Chrysene

Concen: 16.30 ng m

RT: 15.54 min Scan# 1256

Delta R.T. 0.02 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

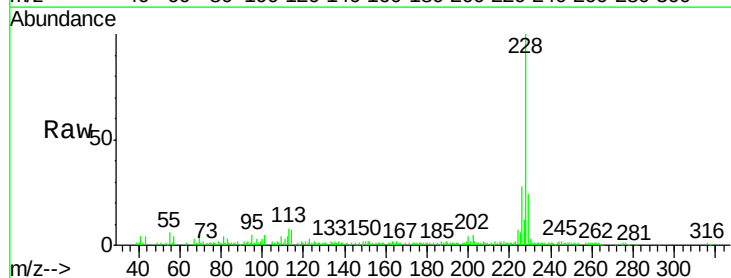
Tgt Ion:228 Resp: 98016

Ion Ratio Lower Upper

228 100

226 28.2 24.2 36.4

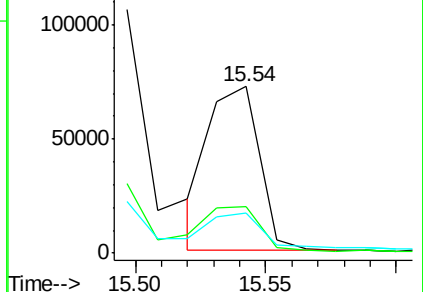
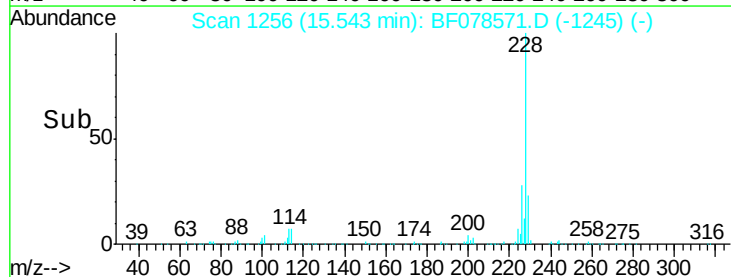
229 24.3 15.8 23.8#

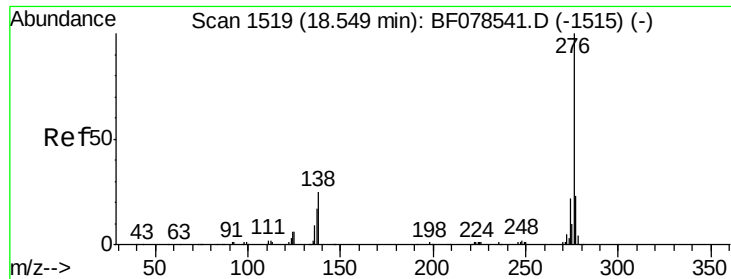


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

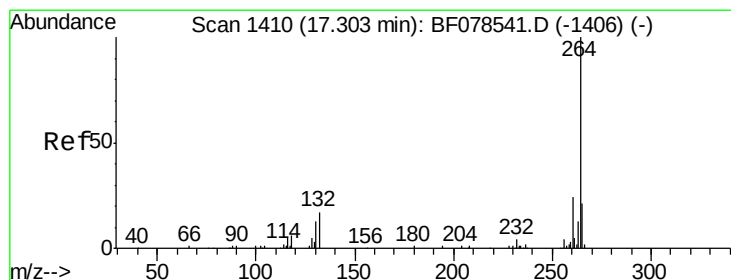
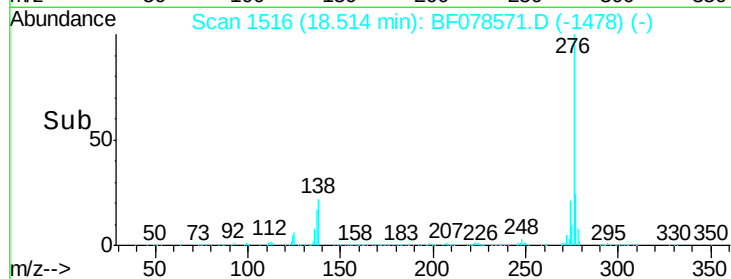
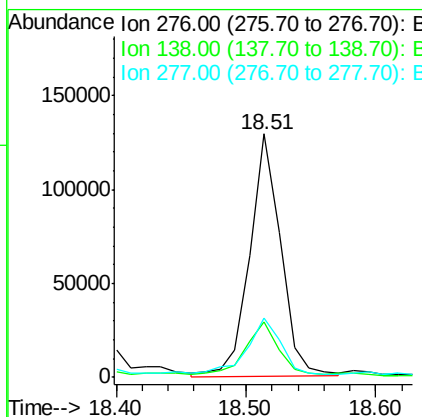
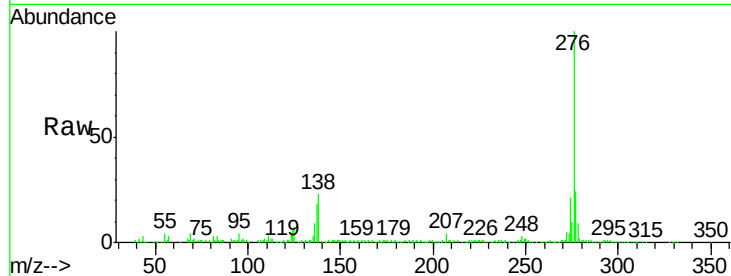




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 31.69 ng m
 RT: 18.51 min Scan# 1516
 Delta R.T. 0.14 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

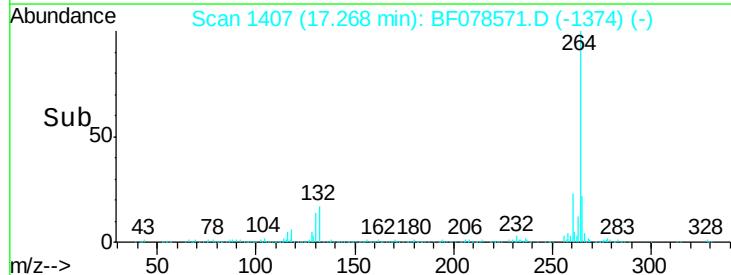
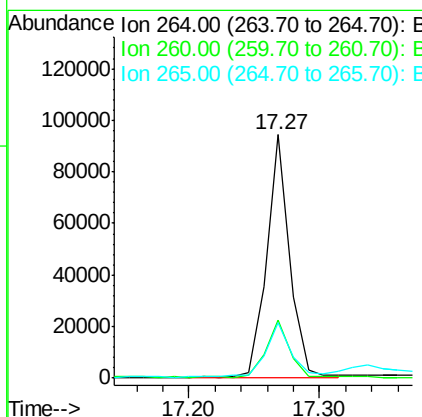
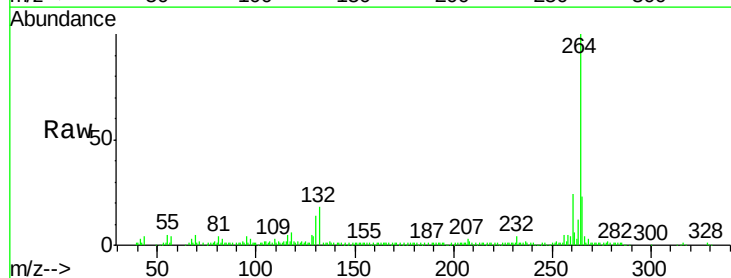
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02BRE

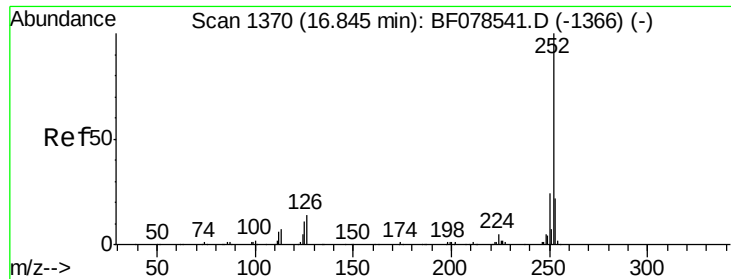
Tgt Ion	Ratio	Lower	Upper
276	100		
138	4.9	16.9	25.3#
277	4.4	15.8	23.6#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.27 min Scan# 1407
 Delta R.T. 0.08 min
 Lab File: BF078571.D
 Acq: 16 Apr 2015 17:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	27.8
265	22.9	17.0	25.6





#87

Benzo(b)fluoranthene

Concen: 34.28 ng m

RT: 16.82 min Scan# 1368

Delta R.T. 0.07 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

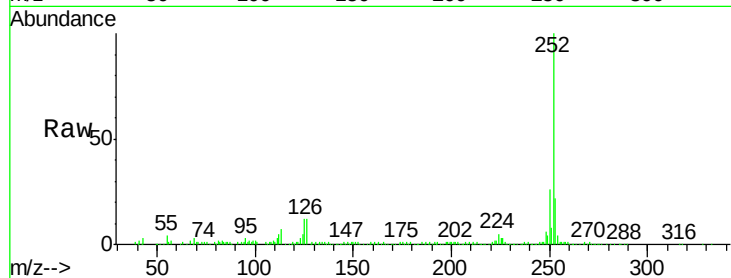
Tgt Ion:252 Resp: 247430

Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

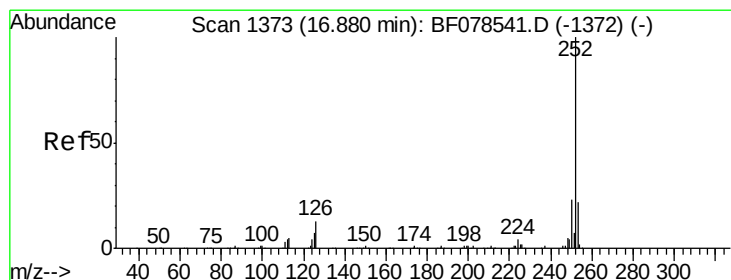
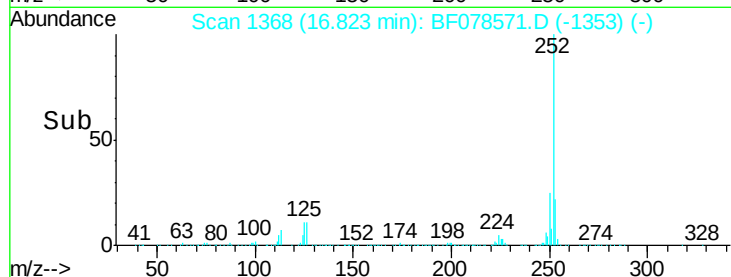
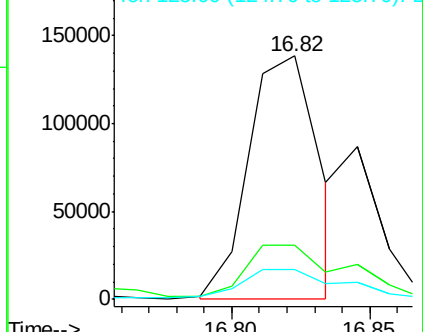
125 12.3 7.0 10.4#



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



#88

Benzo(k)fluoranthene

Concen: 12.83 ng m

RT: 16.85 min Scan# 1370

Delta R.T. 0.06 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

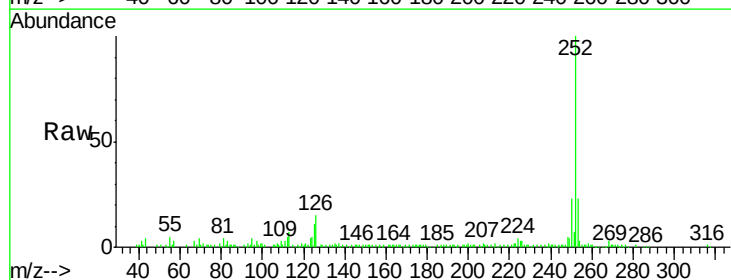
Tgt Ion:252 Resp: 82285

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

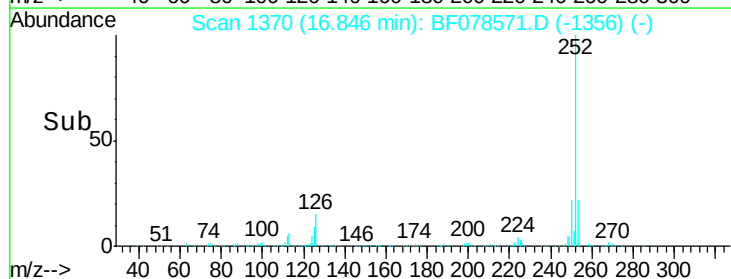
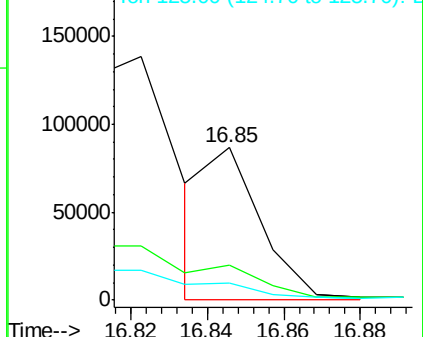
125 11.0 11.6 17.4#

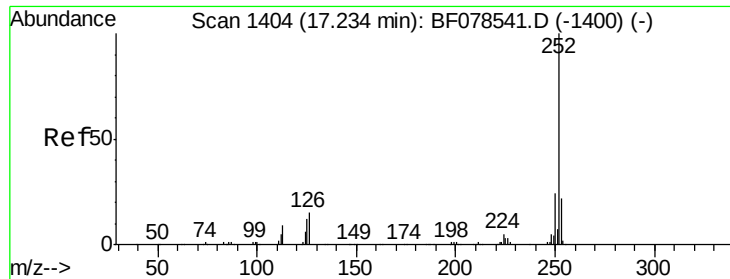


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 35.23 ng

RT: 17.20 min Scan# 1401

Delta R.T. 0.07 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

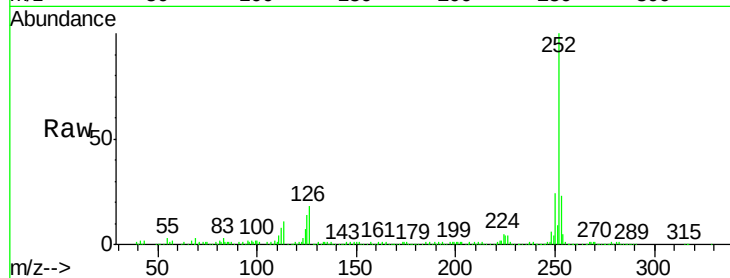
Tgt Ion:252 Resp: 221896

Ion Ratio Lower Upper

252 100

253 23.5 16.8 25.2

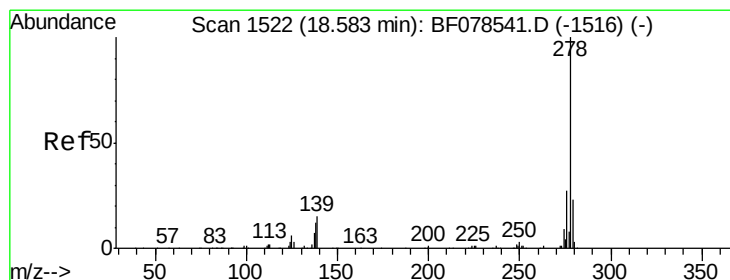
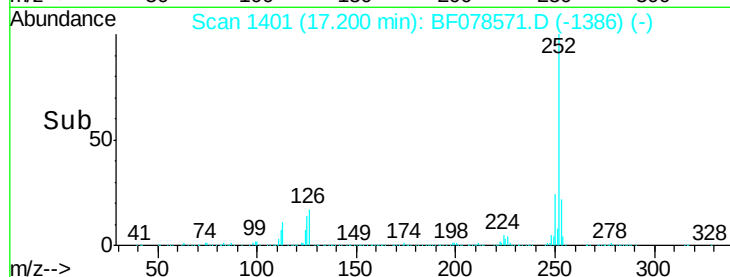
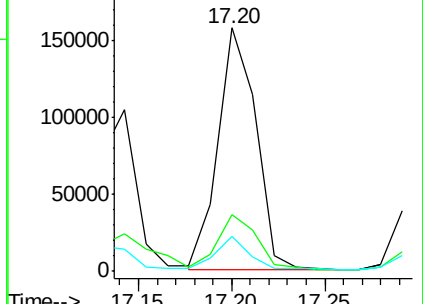
125 14.5 7.4 11.0#



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: 6.31 ng m

RT: 18.53 min Scan# 1517

Delta R.T. 0.11 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

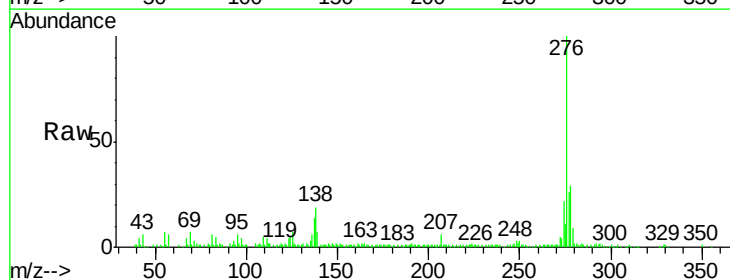
Tgt Ion:278 Resp: 39774

Ion Ratio Lower Upper

278 100

139 23.7 13.6 20.4#

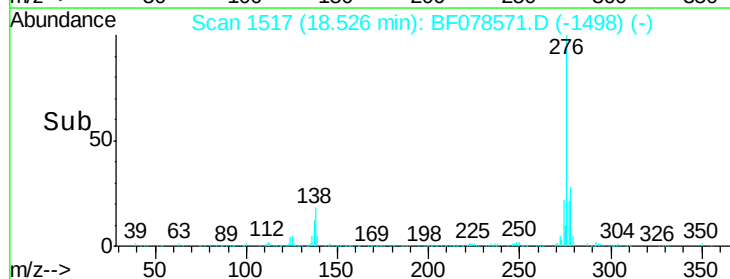
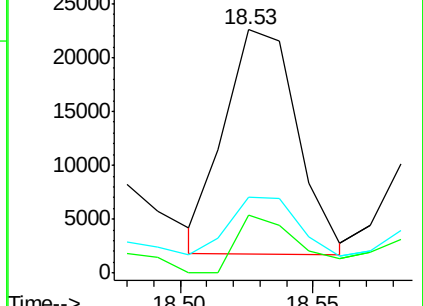
279 31.1 19.0 28.6#

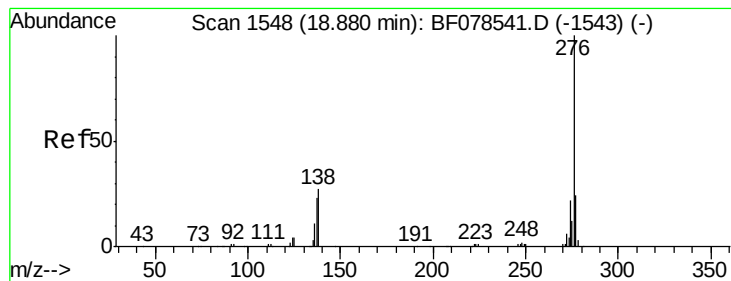


Abundance Ion 278.00 (277.70 to 278.70): E

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: 33.58 ng m

RT: 18.51 min Scan# 1516

Delta R.T. -0.19 min

Lab File: BF078571.D

Acq: 16 Apr 2015 17:54

Instrument :

BNA_F

ClientSampleId :

HS-SB02BRE

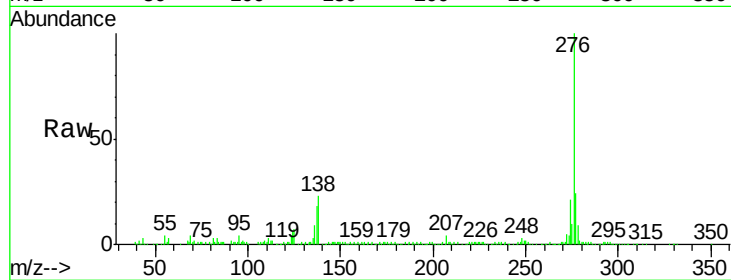
Tgt Ion: 276 Resp: 212343

Ion Ratio Lower Upper

276 100

277 24.1 19.0 28.4

138 22.9 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

