

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\
 Data File : BF093685.D
 Acq On : 15 Mar 2017 23:11
 Operator : SJ/MA
 Sample : I2106-04DL 20X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413ADL

Quant Time: Mar 16 01:44:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	150024	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	564459	20.00	ng	-0.01
38) Acenaphthene-d10	9.75	164	223891	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	358370	20.00	ng	0.00
75) Chrysene-d12	13.89	240	305699	20.00	ng	0.00
86) Perylene-d12	15.31	264	259479	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	33042	3.67	ng	0.05
7) Phenol-d6	6.42	99	49667	4.37	ng	0.05
23) Nitrobenzene-d5	7.30	82	31257	3.07	ng	0.00
41) 2,4,6-Tribromophenol	10.56	330	4788	3.28	ng	0.01
44) 2-Fluorobiphenyl	9.08	172	53812	4.47	ng	-0.01
78) Terphenyl-d14	12.82	244	33674	2.86	ng	0.00

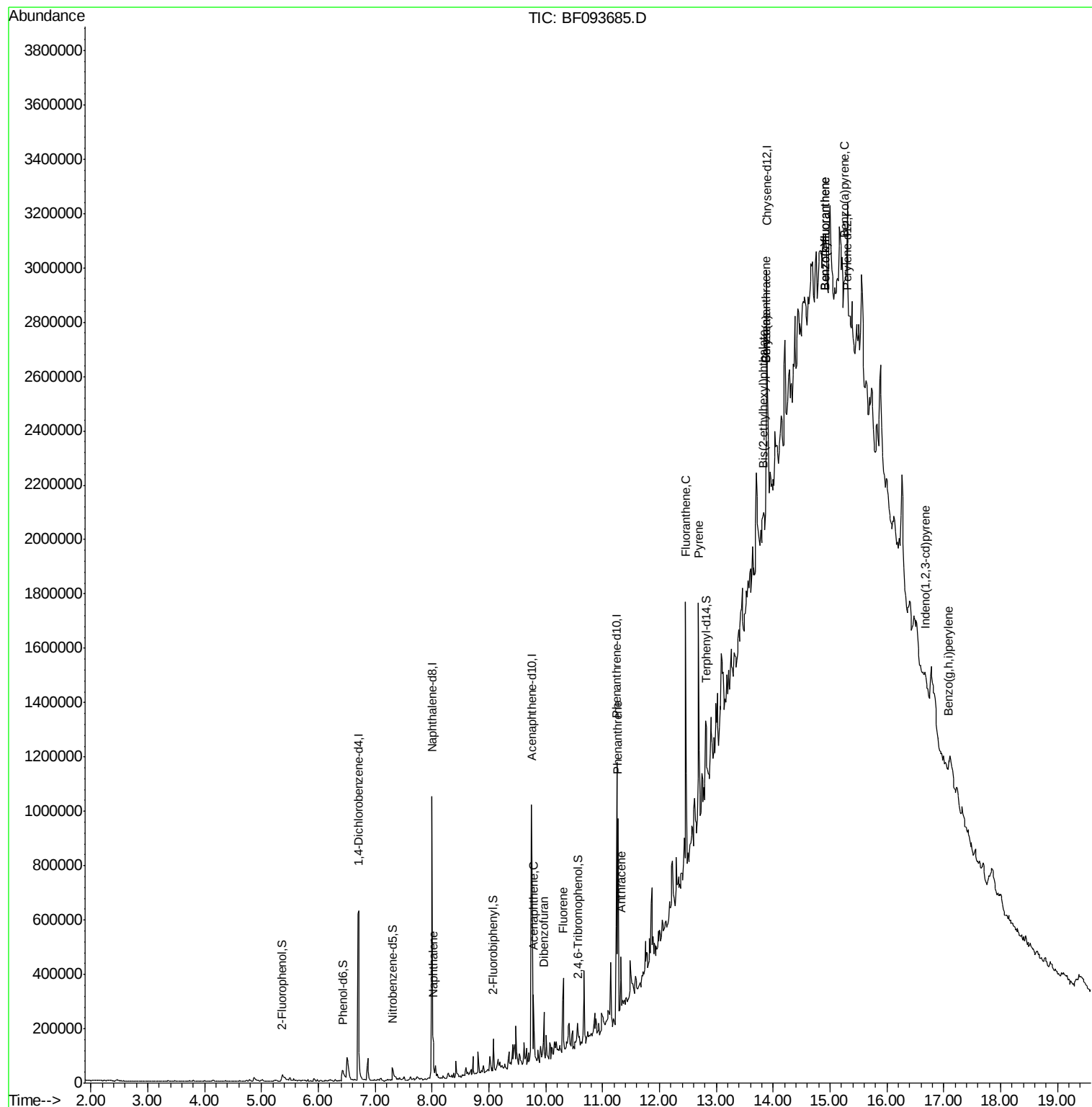
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.30	77	216	Below Cal		# 1
31) Naphthalene	8.02	128	57845	2.04	ng	98
51) Acenaphthene	9.78	154	51524	4.23	ng	95
54) Dibenzofuran	9.97	168	59786	3.92	ng	94
57) Fluorene	10.31	166	88343	6.84	ng	94
70) Phenanthrene	11.27	178	277531	13.57	ng	98
71) Anthracene	11.33	178	105339	5.09	ng	97
74) Fluoranthene	12.46	202	424721	21.50	ng	99
77) Pyrene	12.69	202	362428	16.30	ng	99
80) Benzo(a)anthracene	13.88	228	149752	8.30	ng	# 85
82) Chrysene	13.88	228	149752	8.97	ng	# 85
83) Bis(2-ethylhexyl)phthalate	13.83	149	35385	2.71	ng	# 68
85) Indeno(1,2,3-cd)pyrene	16.68	276	35065	2.51	ng	92
87) Benzo(b)fluoranthene	14.92	252	155237	9.82	ng	# 60
88) Benzo(k)fluoranthene	14.92	252	155237	10.19	ng	# 61
89) Benzo(a)pyrene	15.25	252	61106	4.23	ng	# 35
91) Benzo(a,h,i)perylene	17.09	276	28530	2.33	ng	# 62

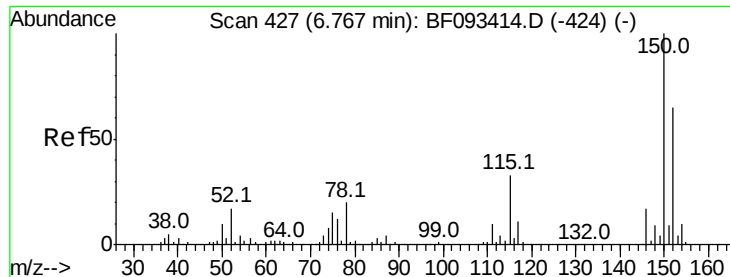
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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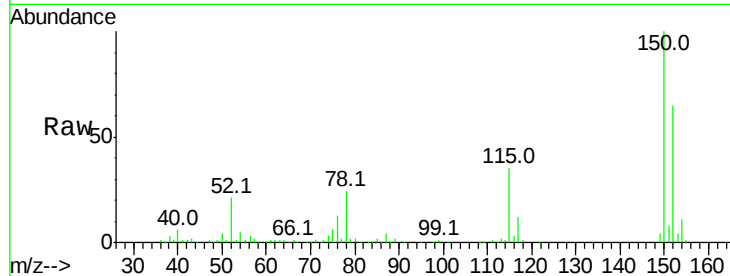


#1

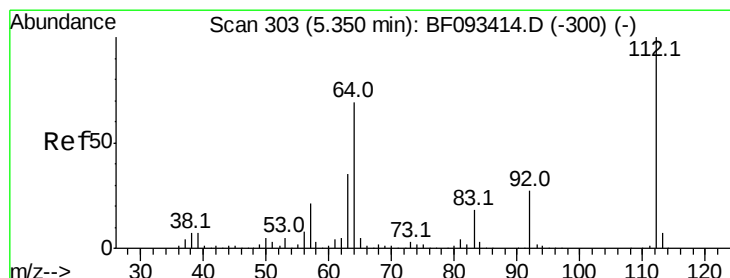
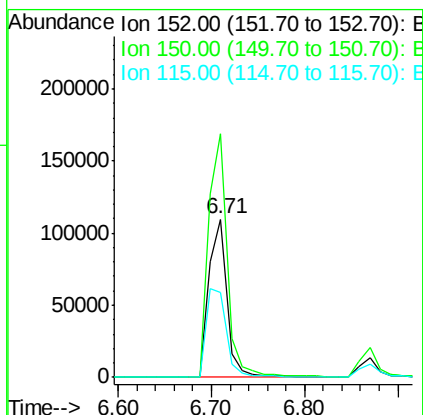
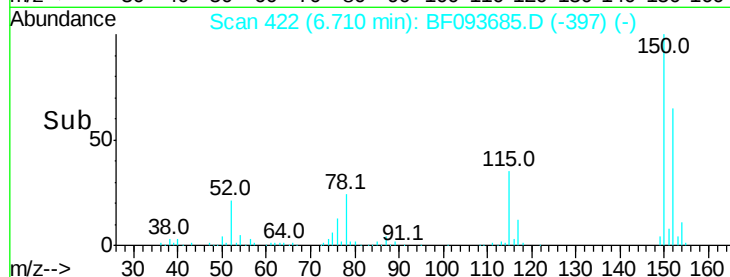
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.71 min Scan# 422
 Delta R.T. -0.01 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413ADL

Tot Ion:152 Resp: 150024
 Ion Ratio Lower Upper
 152 100
 150 153.9 124.9 187.3
 115 53.9 46.0 69.0



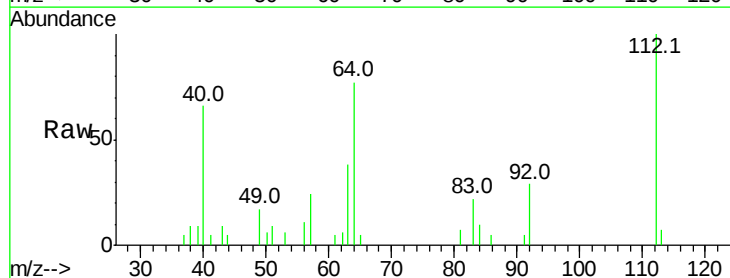
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



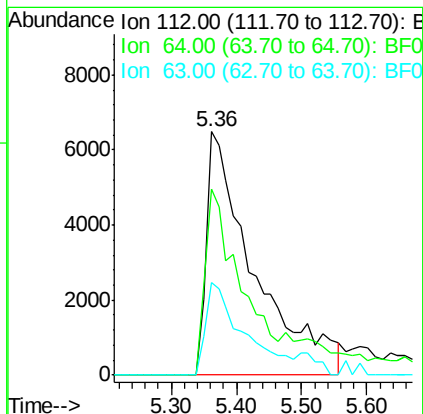
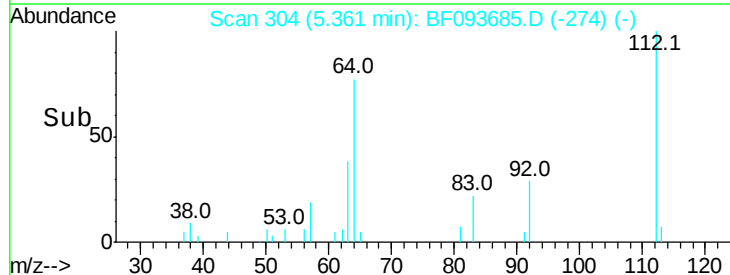
#5

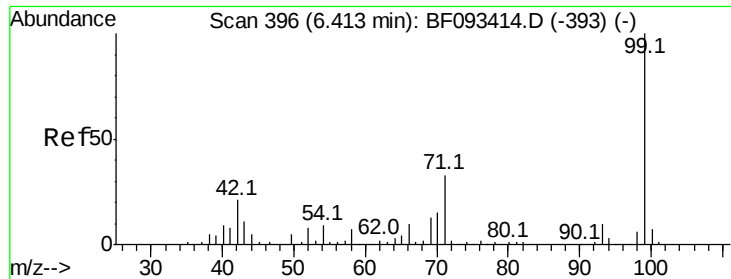
2-Fluorophenol
 Concen: 3.67 ng
 RT: 5.36 min Scan# 304
 Delta R.T. 0.05 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

Tgt Ion:112 Resp: 33042
 Ion Ratio Lower Upper
 112 100
 64 76.5 46.1 69.1#
 63 38.2 23.8 35.6#



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: 4.37 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.05 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

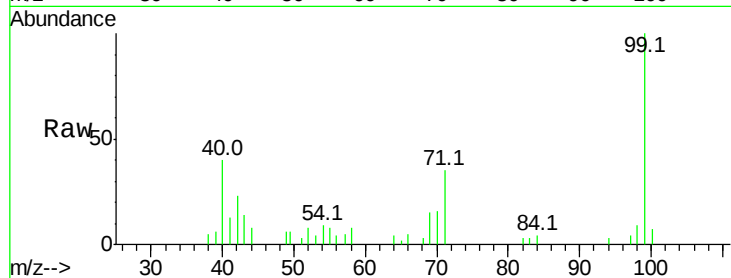
Tot Ion: 99 Resp: 49667

Ion Ratio Lower Upper

99 100

42 23.1 15.6 23.4

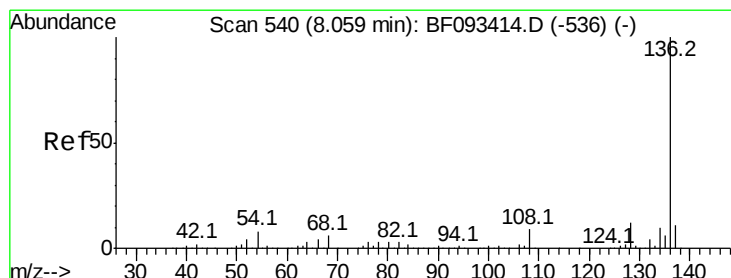
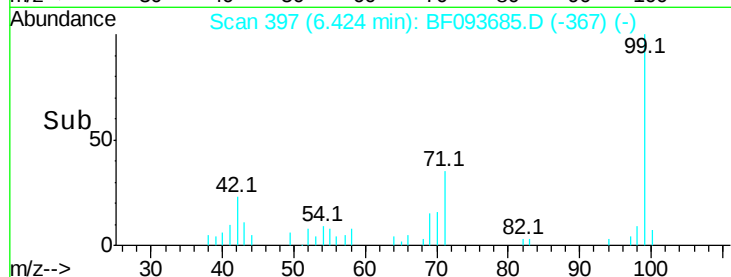
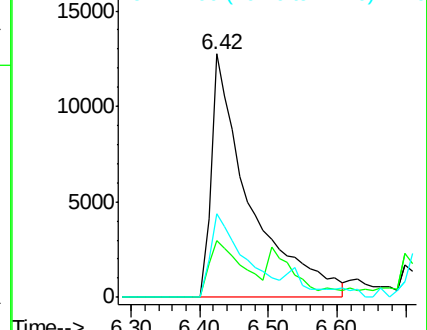
71 34.6 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Tgt Ion: 136 Resp: 564459

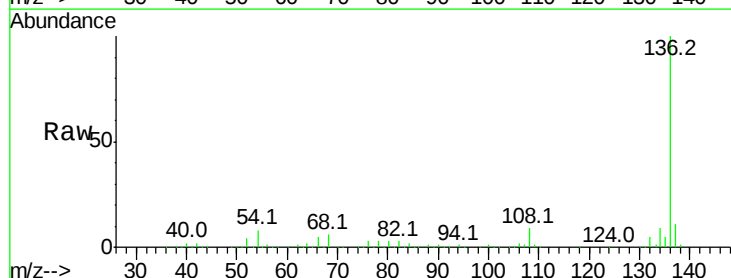
Ion Ratio Lower Upper

136 100

137 10.8 8.4 12.6

54 8.2 4.5 6.7#

68 6.1 3.6 5.4#

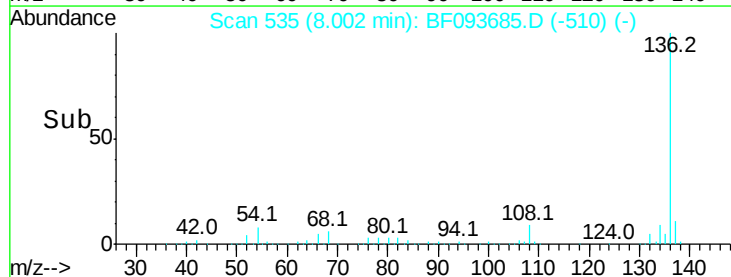
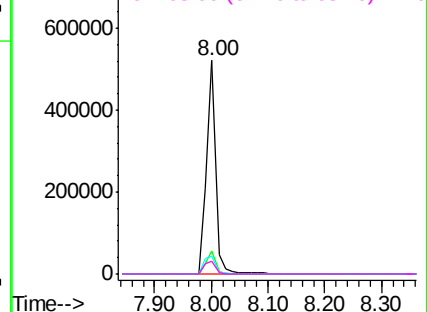


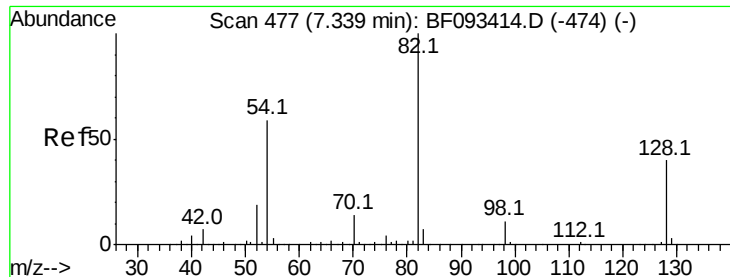
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

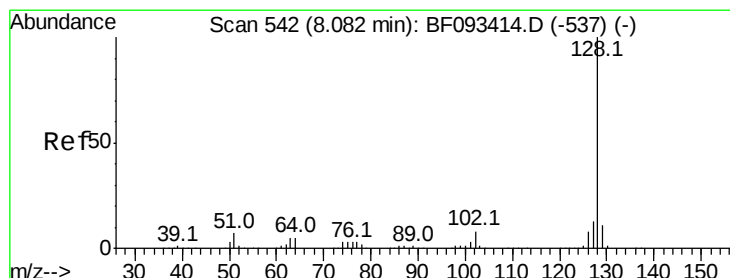
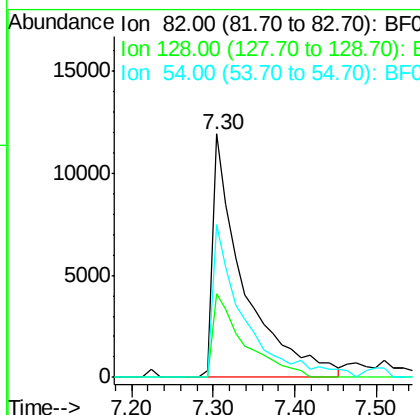
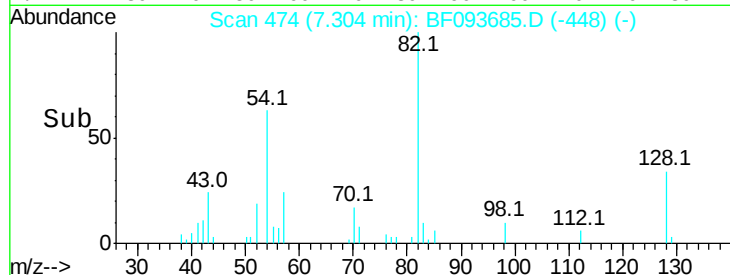
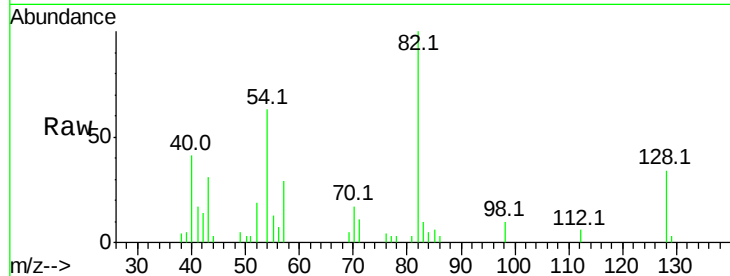




#23
 Nitrobenzene-d5
 Concen: 3.07 ng
 RT: 7.30 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

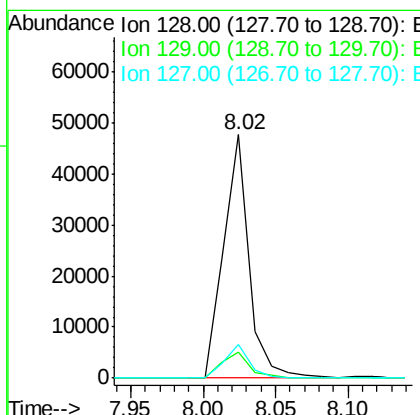
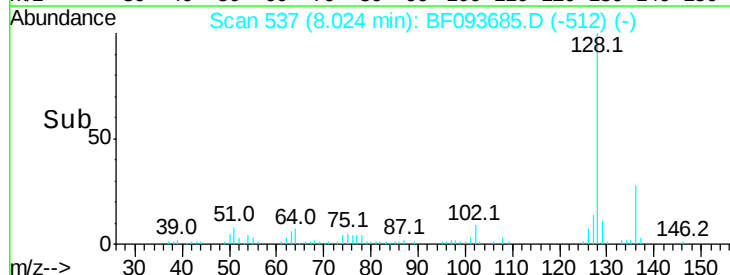
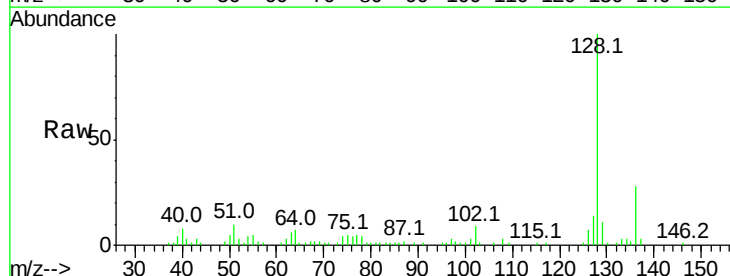
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413ADL

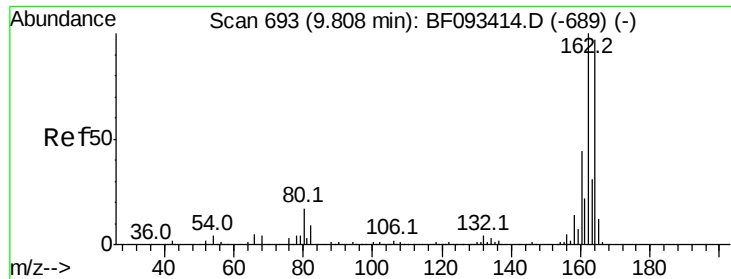
Tot Ion: 82 Resp: 31257
 Ion Ratio Lower Upper
 82 100
 128 34.2 34.6 52.0#
 54 62.6 39.5 59.3#



#31
 Naphthalene
 Concen: 2.04 ng
 RT: 8.02 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

Tgt Ion: 128 Resp: 57845
 Ion Ratio Lower Upper
 128 100
 129 10.9 9.5 14.3
 127 13.9 10.8 16.2

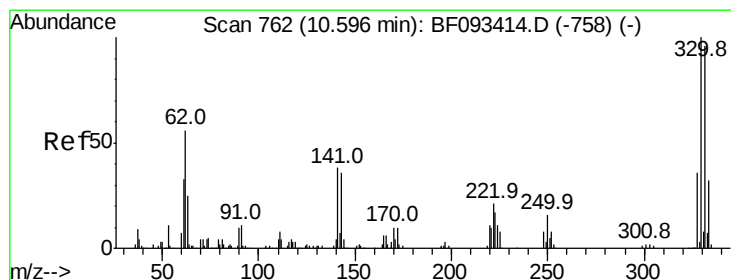
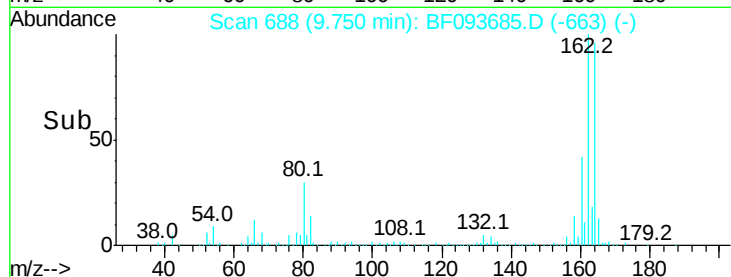
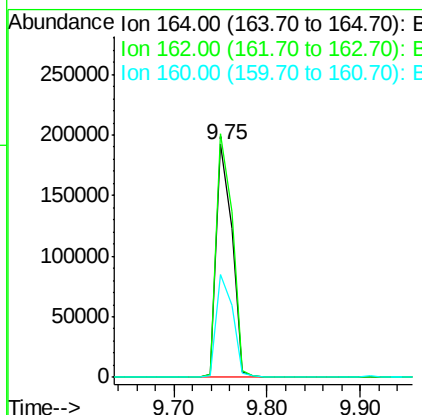
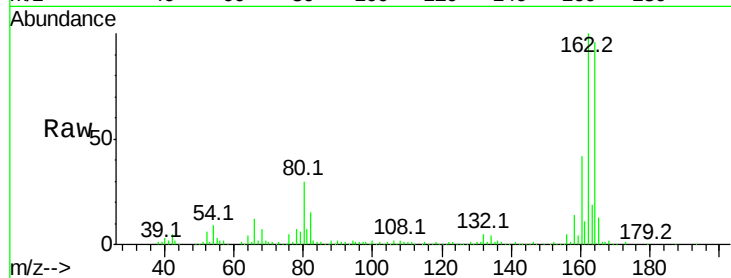




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.75 min Scan# 688
Delta R.T. -0.01 min
Lab File: BF093685.D
Acq: 15 Mar 2017 23:11

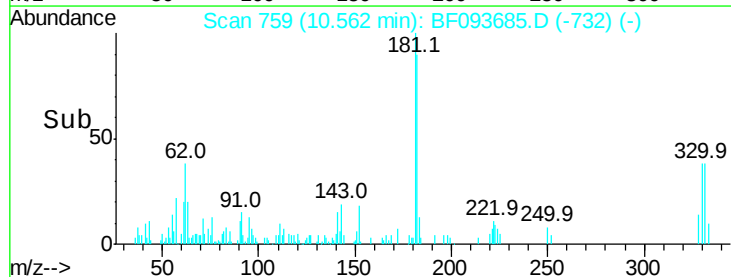
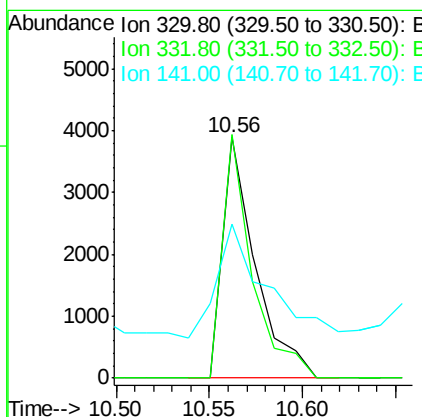
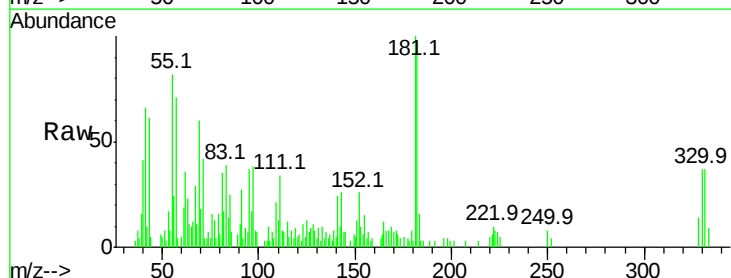
Instrument :
BNA_F
ClientSampleId :
HY-SB413ADL

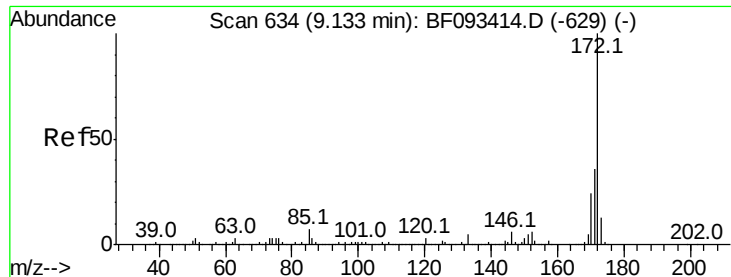
Tot Ion:164 Resp: 223891
Ion Ratio Lower Upper
164 100
162 104.4 80.2 120.2
160 44.1 36.9 55.3



#41
2,4,6-Tribromophenol
Concen: 3.28 ng
RT: 10.56 min Scan# 759
Delta R.T. 0.01 min
Lab File: BF093685.D
Acq: 15 Mar 2017 23:11

Tgt Ion:330 Resp: 4788
Ion Ratio Lower Upper
330 100
332 91.2 77.4 116.2
141 62.7 34.1 51.1#





#44

2-Fluorobiphenyl

Concen: 4.47 ng

RT: 9.08 min Scan# 629

Delta R.T. -0.01 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

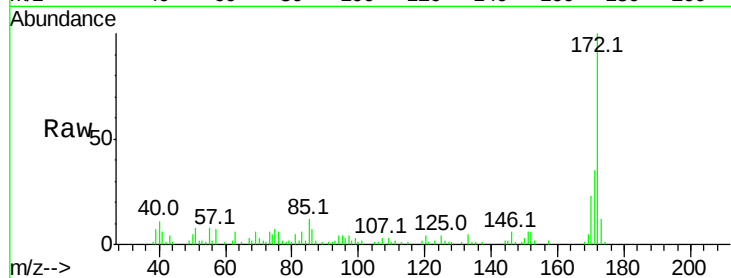
Tot Ion:172 Resp: 53812

Ion Ratio Lower Upper

172 100

171 35.5 29.4 44.0

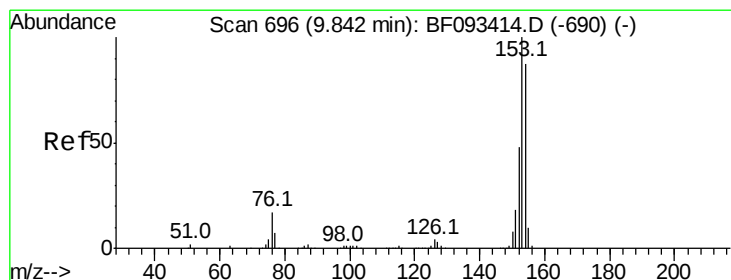
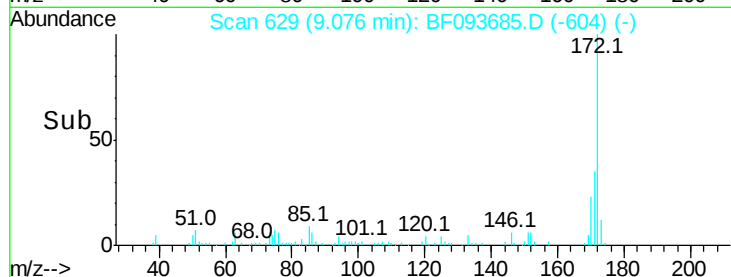
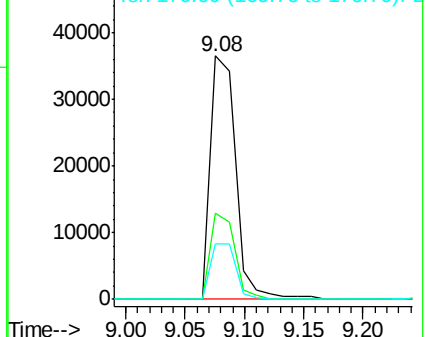
170 23.0 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51

Acenaphthene

Concen: 4.23 ng

RT: 9.78 min Scan# 691

Delta R.T. -0.01 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

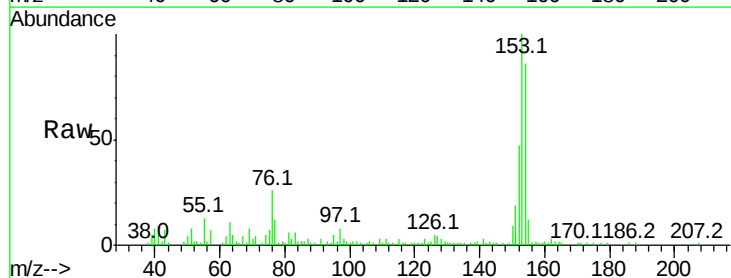
Tgt Ion:154 Resp: 51524

Ion Ratio Lower Upper

154 100

153 116.9 88.6 133.0

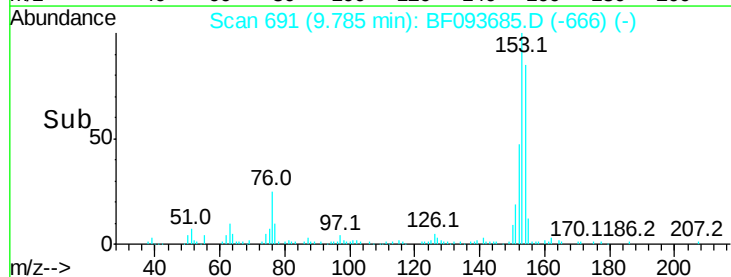
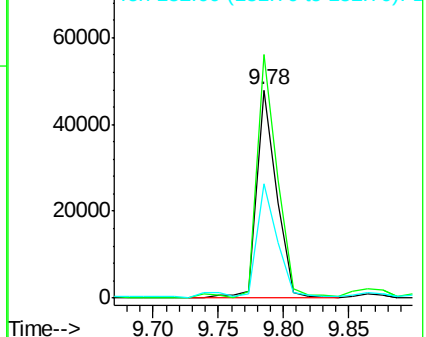
152 55.2 41.6 62.4

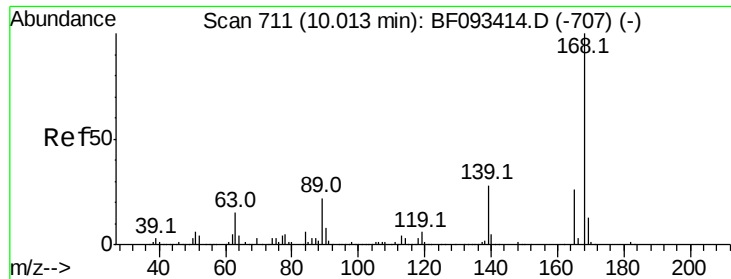


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

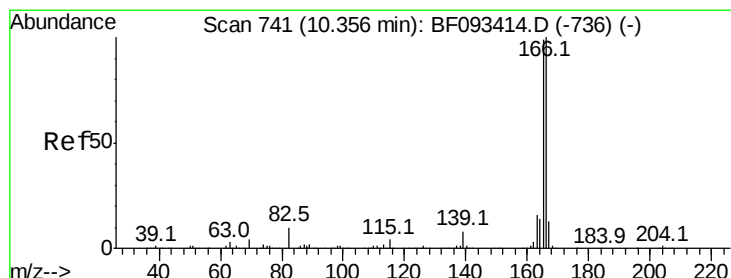
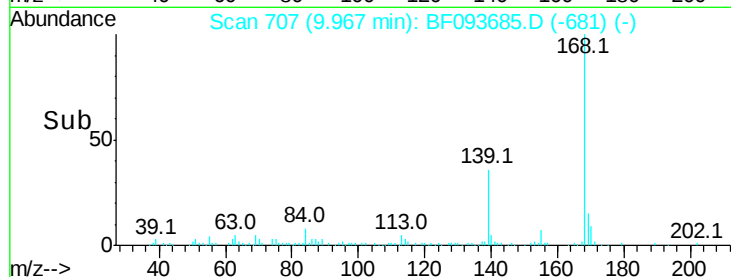
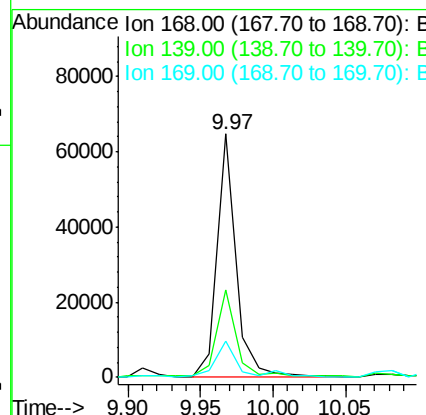
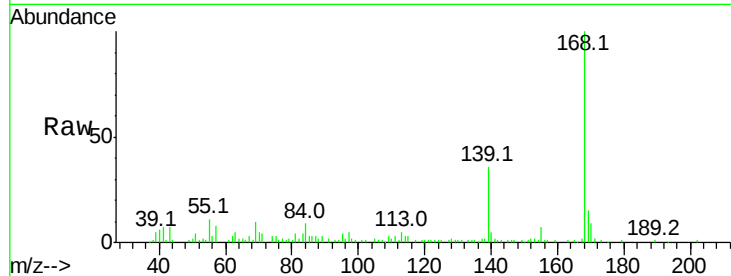




#54
Dibenzofuran
Concen: 3.92 ng
RT: 9.97 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF093685.D
Acq: 15 Mar 2017 23:11

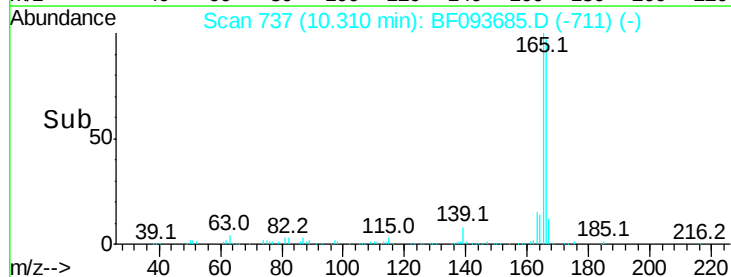
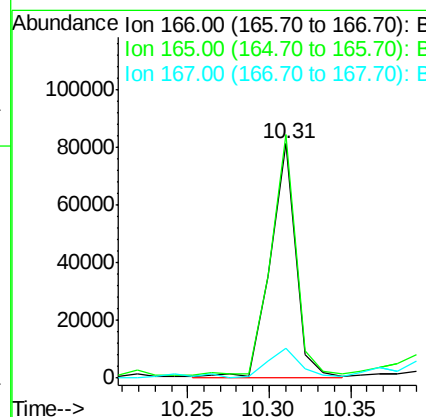
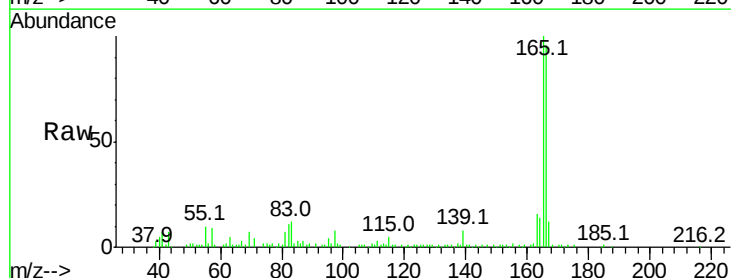
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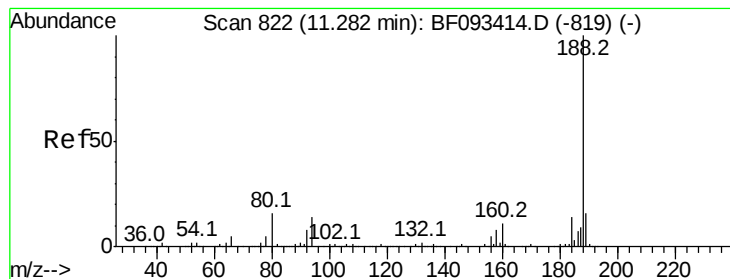
Tot Ion:168 Resp: 59786
Ion Ratio Lower Upper
168 100
139 36.0 32.6 49.0
169 14.9 11.3 16.9



#57
Fluorene
Concen: 6.84 ng
RT: 10.31 min Scan# 737
Delta R.T. -0.00 min
Lab File: BF093685.D
Acq: 15 Mar 2017 23:11

Tgt Ion:166 Resp: 88343
Ion Ratio Lower Upper
166 100
165 104.0 77.8 116.8
167 12.8 10.8 16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.25 min Scan# 819

Delta R.T. -0.00 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

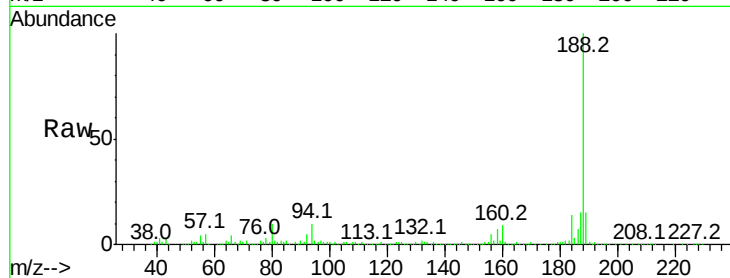
Tot Ion:188 Resp: 358370

Ion Ratio Lower Upper

188 100

94 9.6 10.0 15.0#

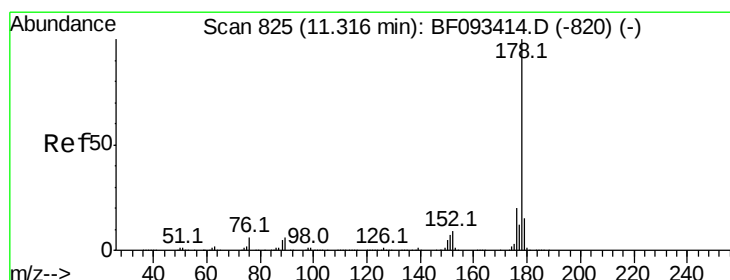
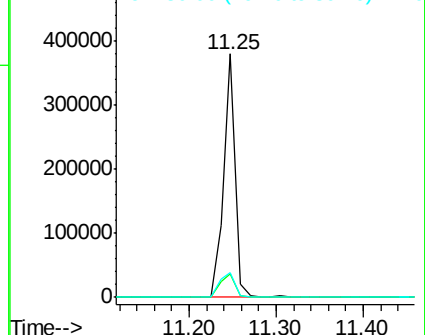
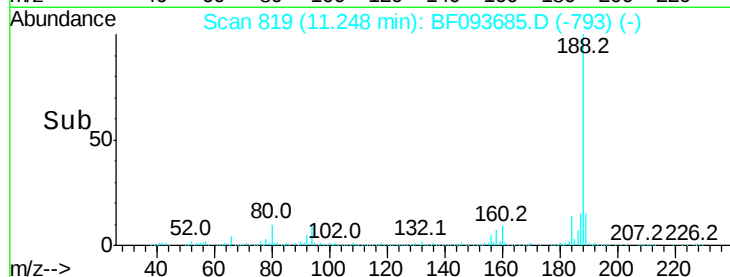
80 10.4 11.2 16.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 13.57 ng

RT: 11.27 min Scan# 821

Delta R.T. -0.00 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

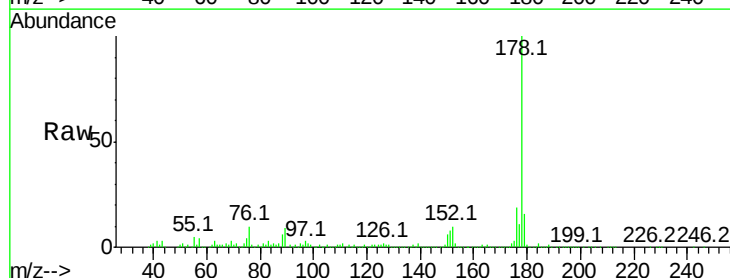
Tgt Ion:178 Resp: 277531

Ion Ratio Lower Upper

178 100

176 18.9 16.6 25.0

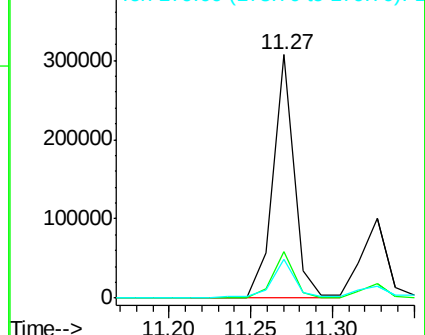
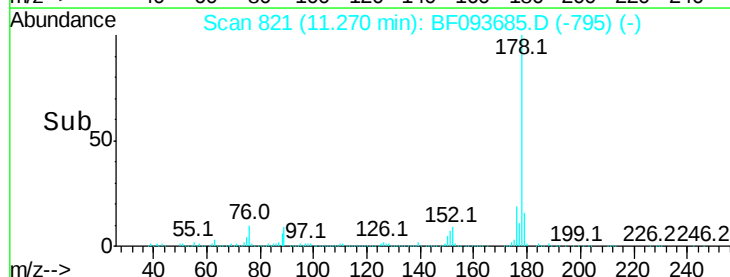
179 16.0 12.8 19.2

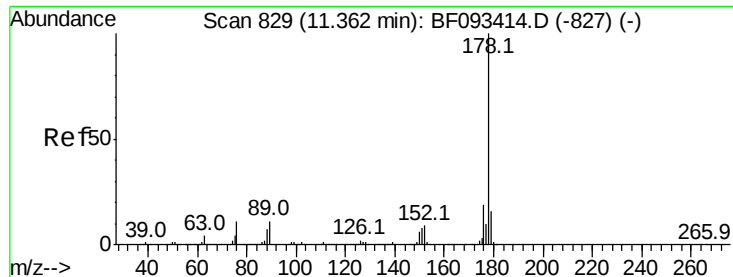


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

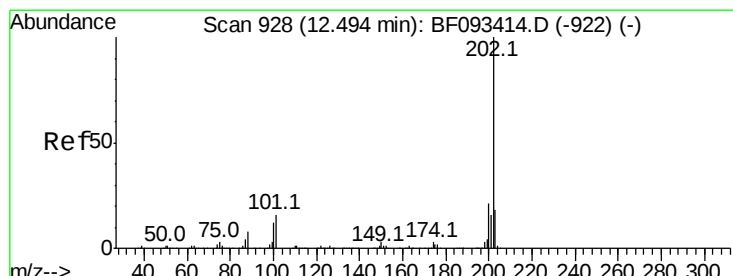
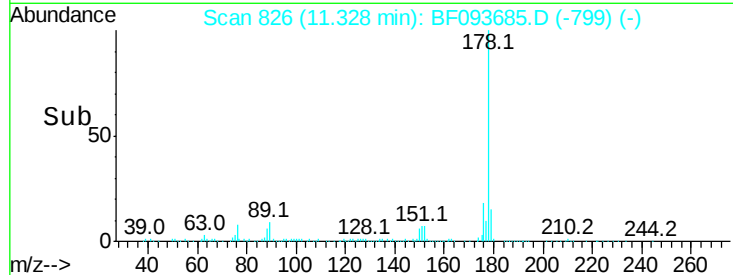
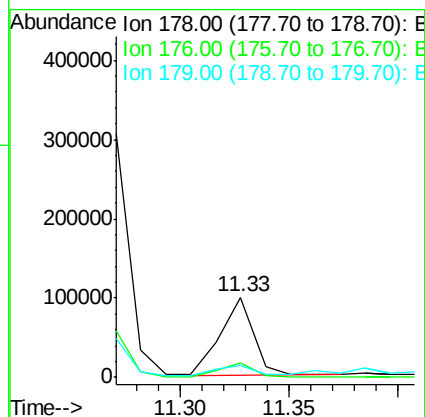
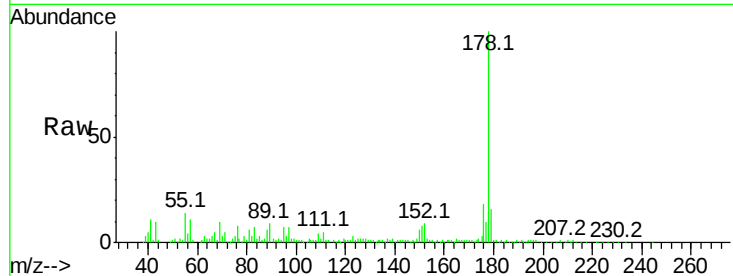




#71
 Anthracene
 Concen: 5.09 ng
 RT: 11.33 min Scan# 826
 Delta R.T. 0.01 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

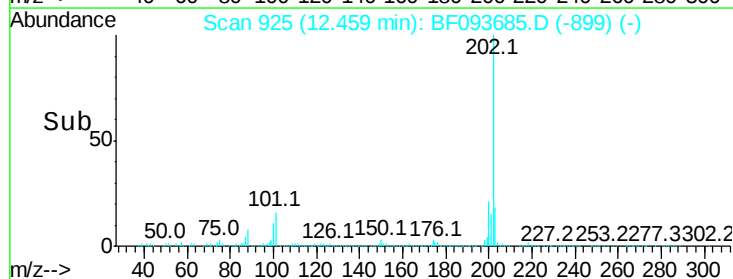
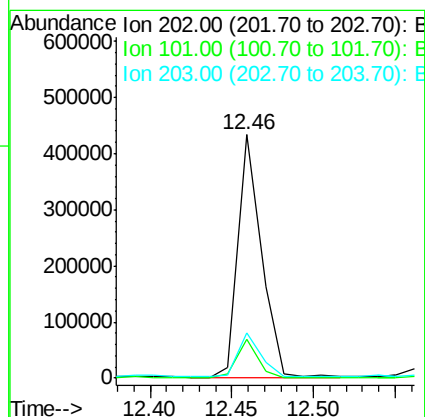
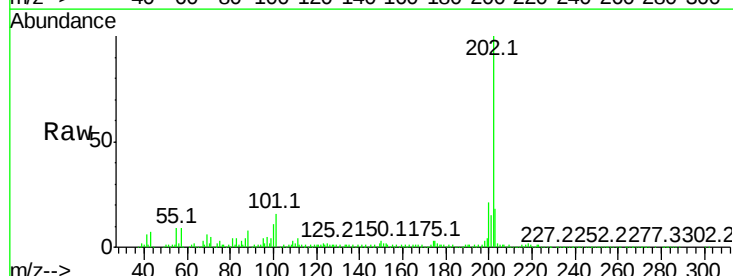
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413ADL

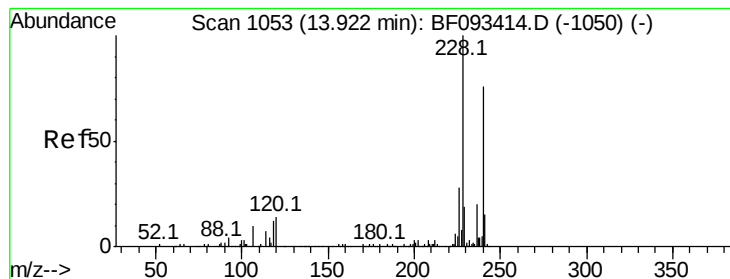
Tot Ion:178 Resp: 105339
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.9 23.9
 179 15.7 13.2 19.8



#74
 Fluoranthene
 Concen: 21.50 ng
 RT: 12.46 min Scan# 925
 Delta R.T. -0.00 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

Tgt Ion:202 Resp: 424721
 Ion Ratio Lower Upper
 202 100
 101 15.7 0.0 34.6
 203 18.5 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

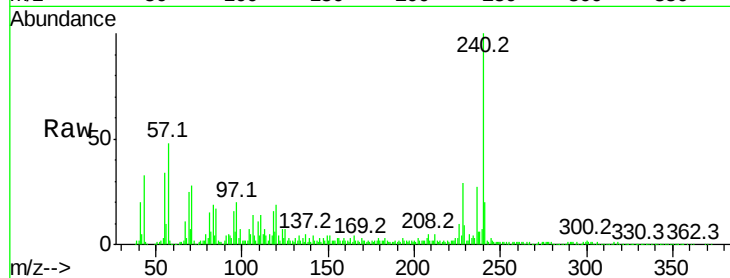
Tot Ion:240 Resp: 305699

Ion Ratio Lower Upper

240 100

120 19.4 12.9 19.3#

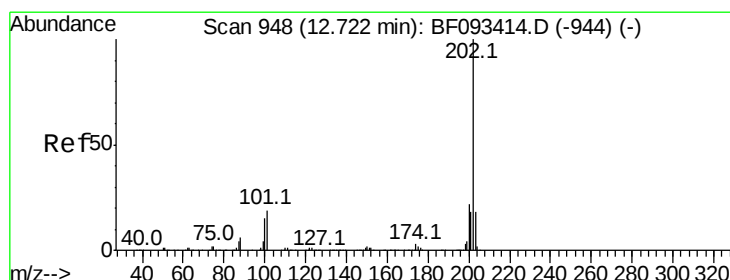
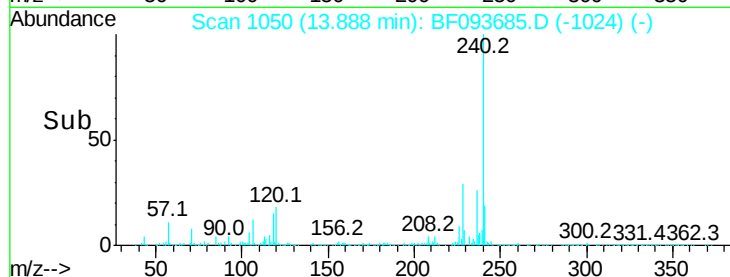
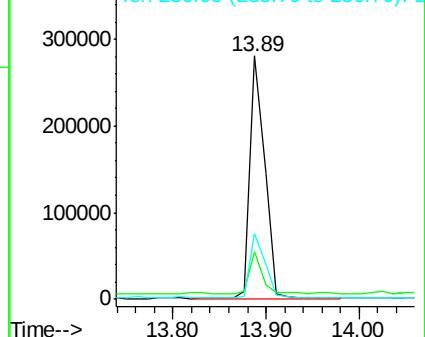
236 27.1 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.30 ng

RT: 12.69 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

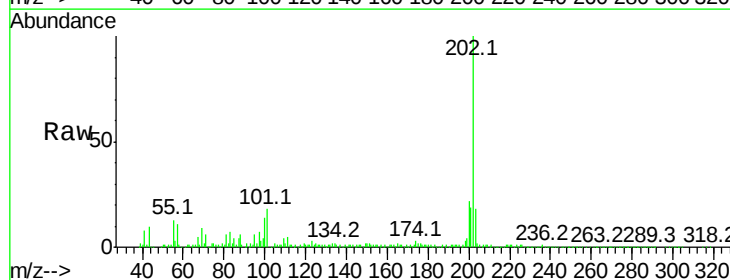
Tgt Ion:202 Resp: 362428

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

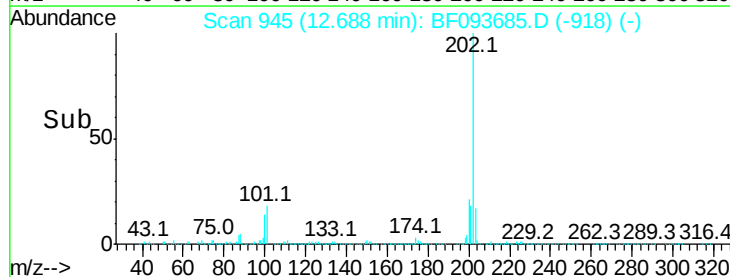
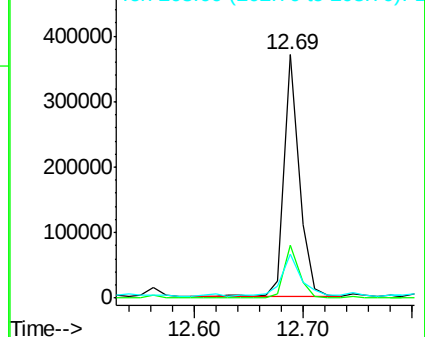
203 18.1 14.7 22.1

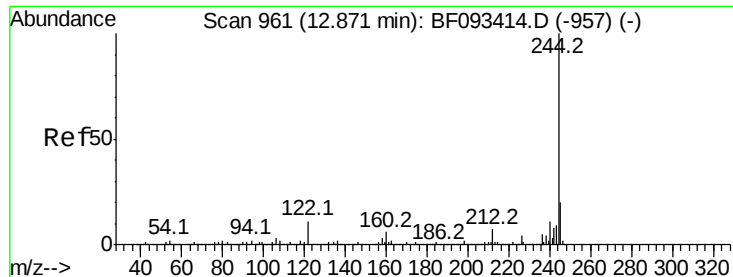


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 2.86 ng

RT: 12.82 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

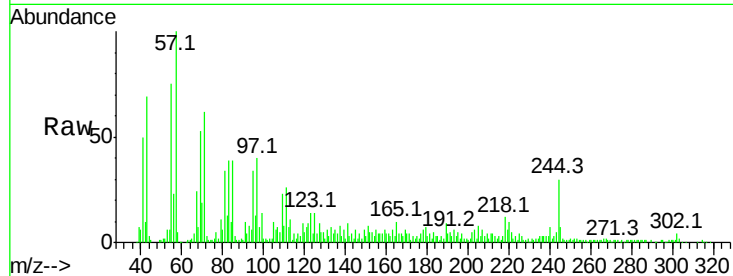
Tot Ion:244 Resp: 33674

Ion Ratio Lower Upper

244 100

212 12.9 6.2 9.2#

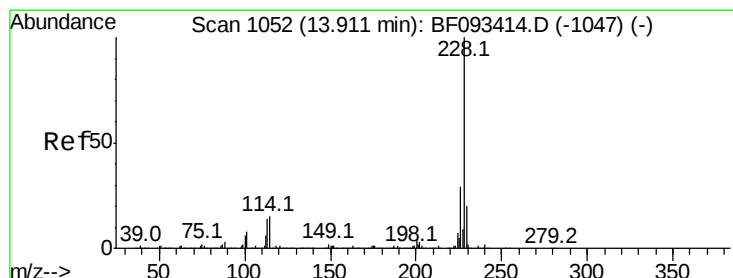
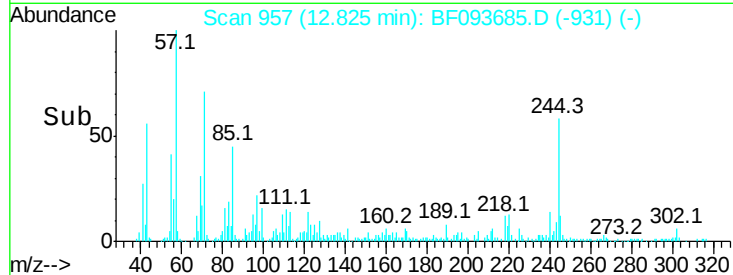
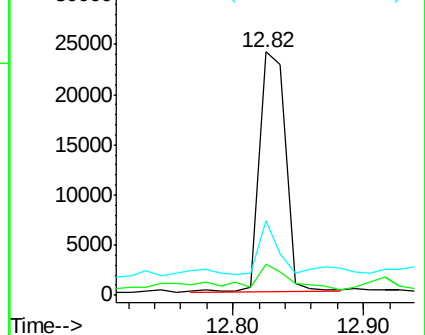
122 30.5 11.4 17.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 8.30 ng

RT: 13.88 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

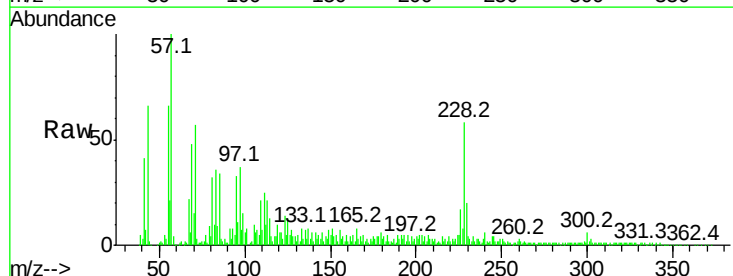
Tgt Ion:228 Resp: 149752

Ion Ratio Lower Upper

228 100

226 29.6 22.4 33.6

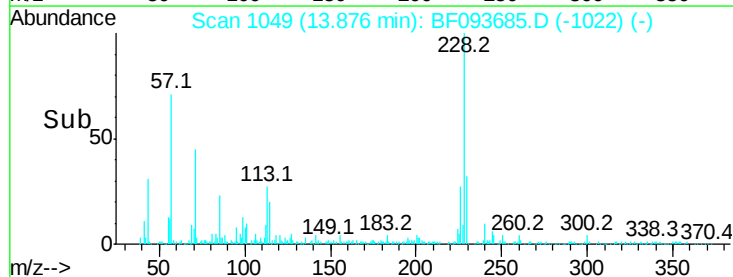
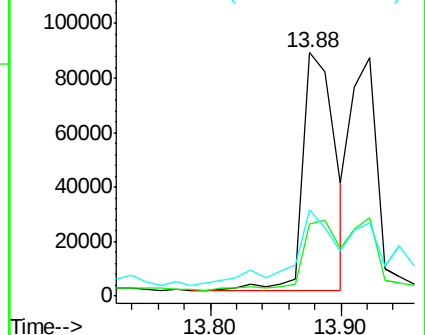
229 35.2 16.2 24.4#

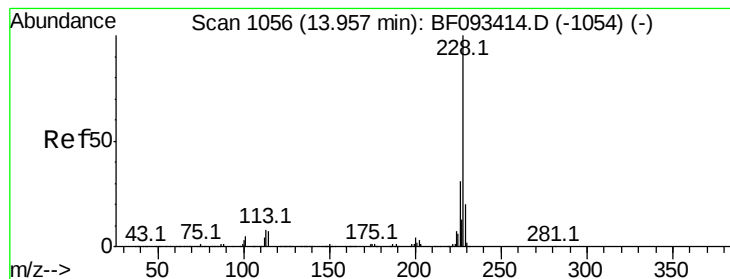


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 8.97 ng

RT: 13.88 min Scan# 1049

Delta R.T. -0.03 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

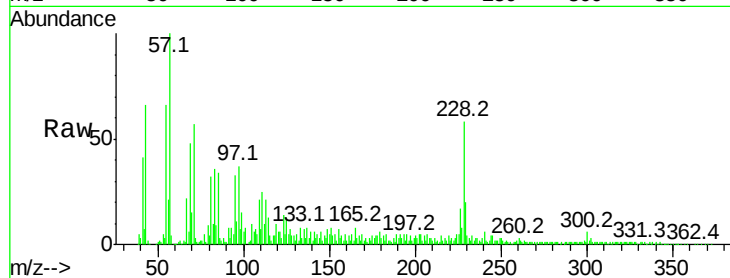
Tot Ion:228 Resp: 149752

Ion Ratio Lower Upper

228 100

226 29.6 25.4 38.0

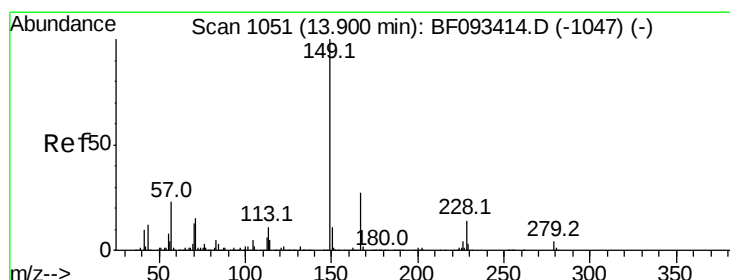
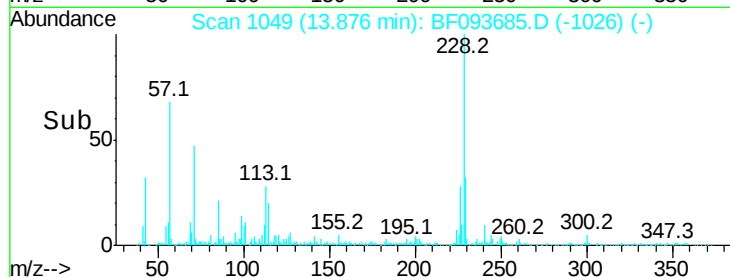
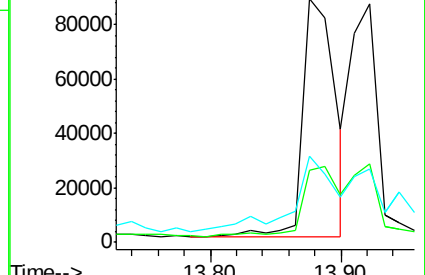
229 35.2 16.2 24.2#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.71 ng

RT: 13.83 min Scan# 1045

Delta R.T. -0.02 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

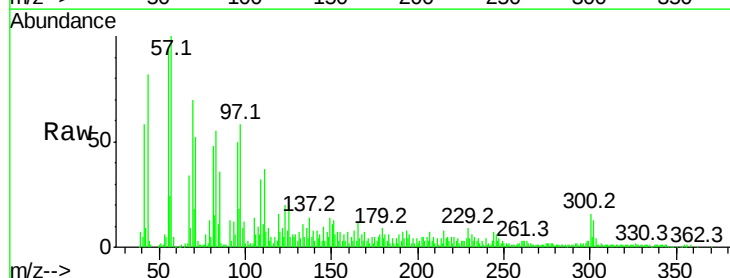
Tgt Ion:149 Resp: 35385

Ion Ratio Lower Upper

149 100

167 41.9 20.2 30.4#

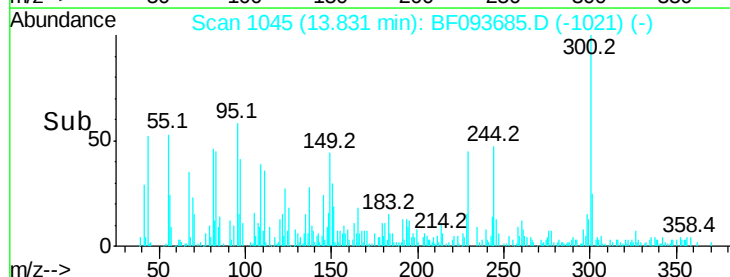
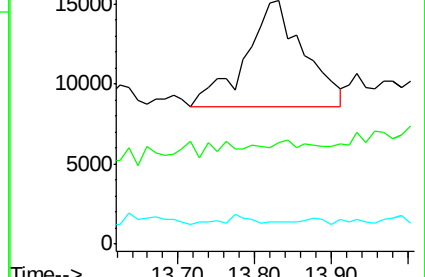
279 9.2 1.8 2.8#

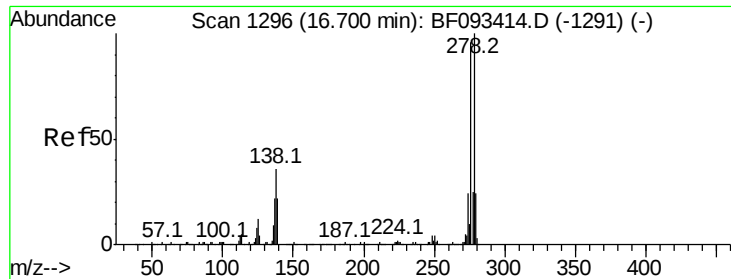


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

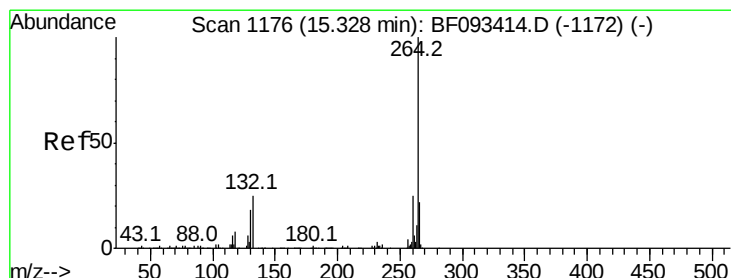
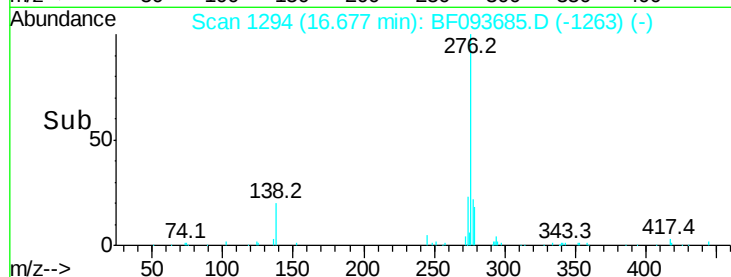
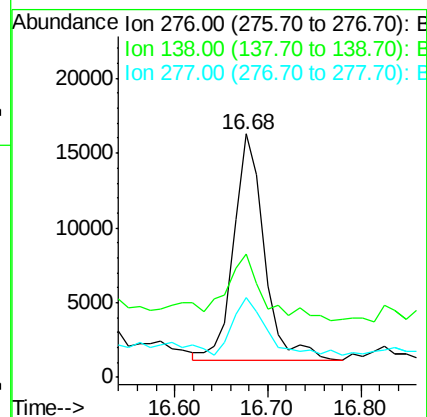
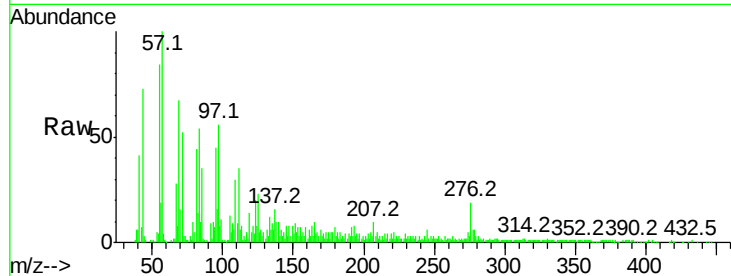




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.51 ng
 RT: 16.68 min Scan# 1294
 Delta R.T. 0.06 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

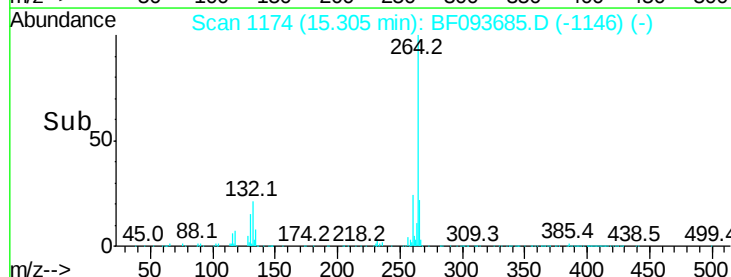
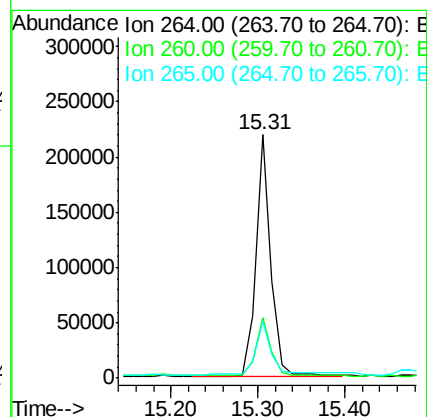
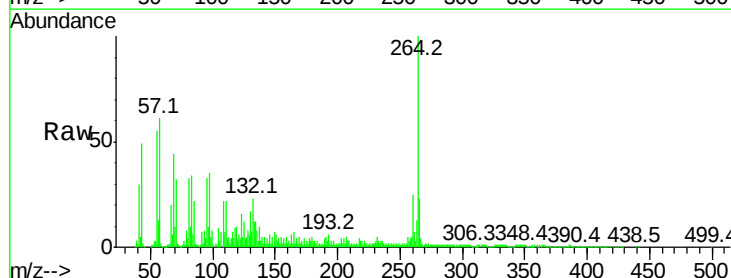
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB413ADL

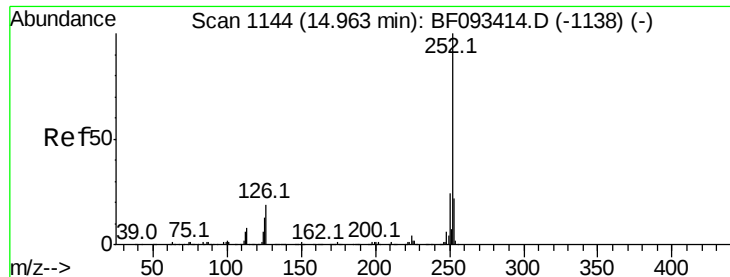
Tot Ion:276 Resp: 35065
 Ion Ratio Lower Upper
 276 100
 138 32.0 21.8 32.6
 277 28.7 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.31 min Scan# 1174
 Delta R.T. 0.02 min
 Lab File: BF093685.D
 Acq: 15 Mar 2017 23:11

Tgt Ion:264 Resp: 259479
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.2 28.8
 265 23.4 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 9.82 ng

RT: 14.92 min Scan# 1140

Delta R.T. 0.02 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

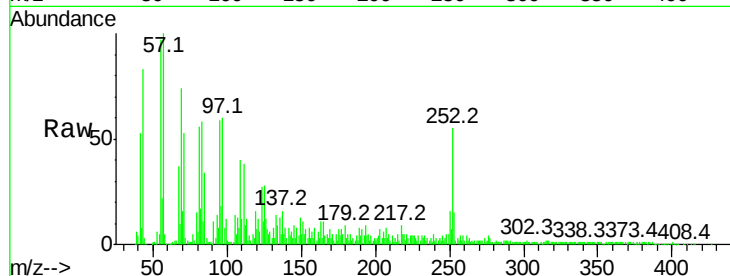
Tot Ion:252 Resp: 155237

Ion Ratio Lower Upper

252 100

253 26.5 18.2 27.4

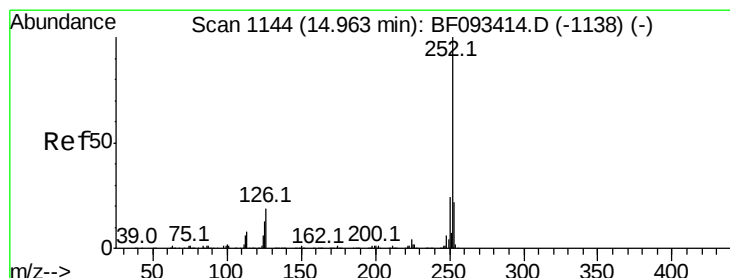
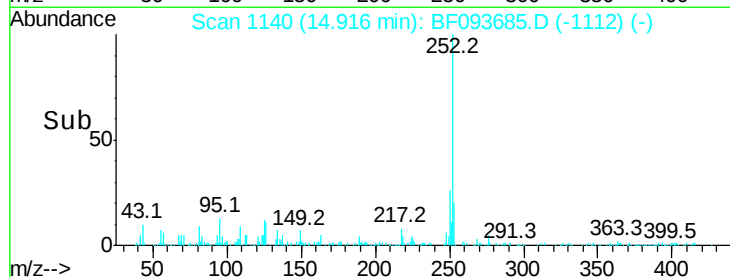
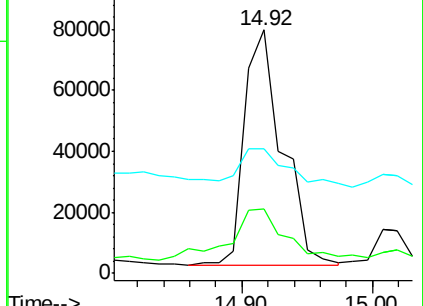
125 51.0 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 10.19 ng

RT: 14.92 min Scan# 1140

Delta R.T. -0.00 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

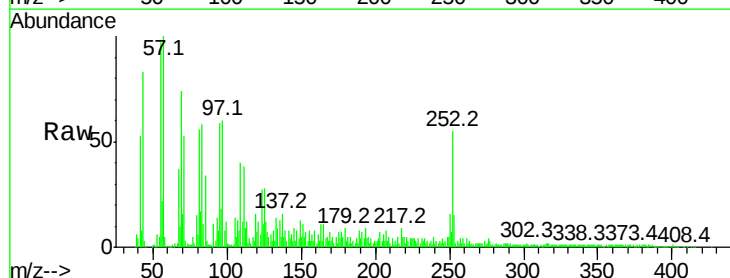
Tgt Ion:252 Resp: 155237

Ion Ratio Lower Upper

252 100

253 26.5 18.5 27.7

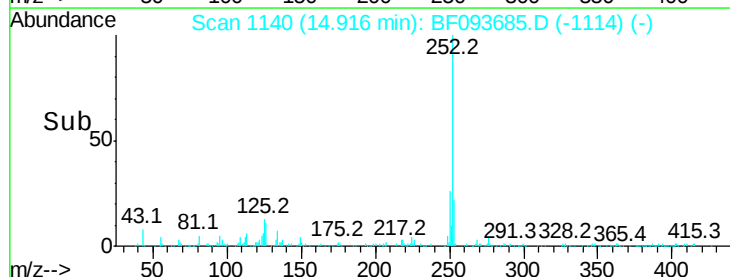
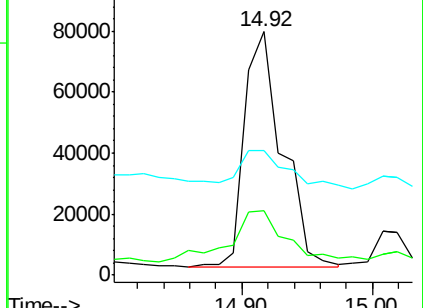
125 51.0 8.9 13.3#

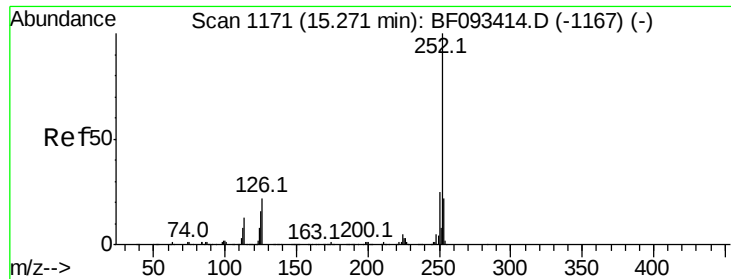


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.23 ng

RT: 15.25 min Scan# 1169

Delta R.T. 0.02 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Instrument :

BNA_F

ClientSampleId :

HY-SB413ADL

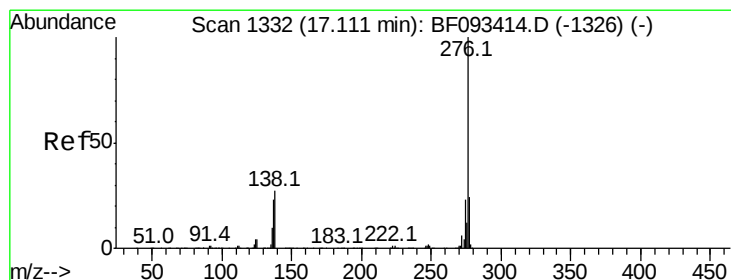
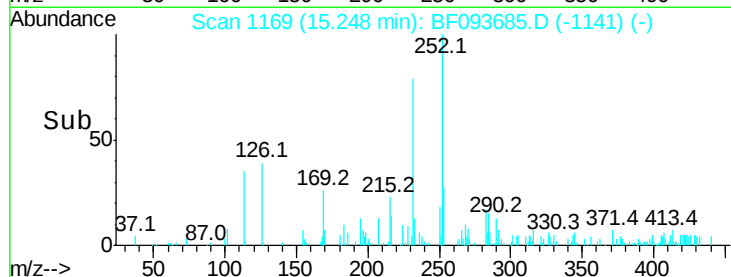
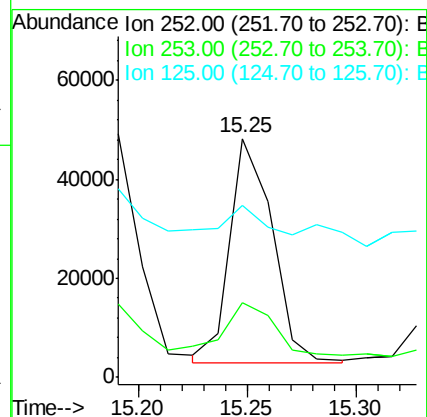
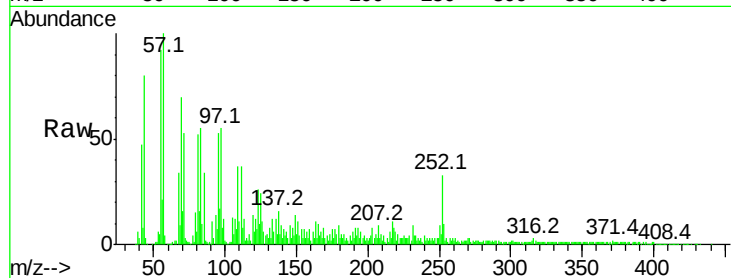
Tot Ion:252 Resp: 61106

Ion Ratio Lower Upper

252 100

253 31.2 18.2 27.2#

125 72.3 10.0 15.0#



#91

Benzo(g,h,i)perylene

Concen: 2.33 ng

RT: 17.09 min Scan# 1330

Delta R.T. 0.07 min

Lab File: BF093685.D

Acq: 15 Mar 2017 23:11

Tgt Ion:276 Resp: 28530

Ion Ratio Lower Upper

276 100

277 32.6 19.2 28.8#

138 48.4 16.0 24.0#

