

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042717\
 Data File : BF094666.D
 Acq On : 27 Apr 2017 14:38
 Operator : SJ/MA
 Sample : I2821-05 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 28 02:18:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

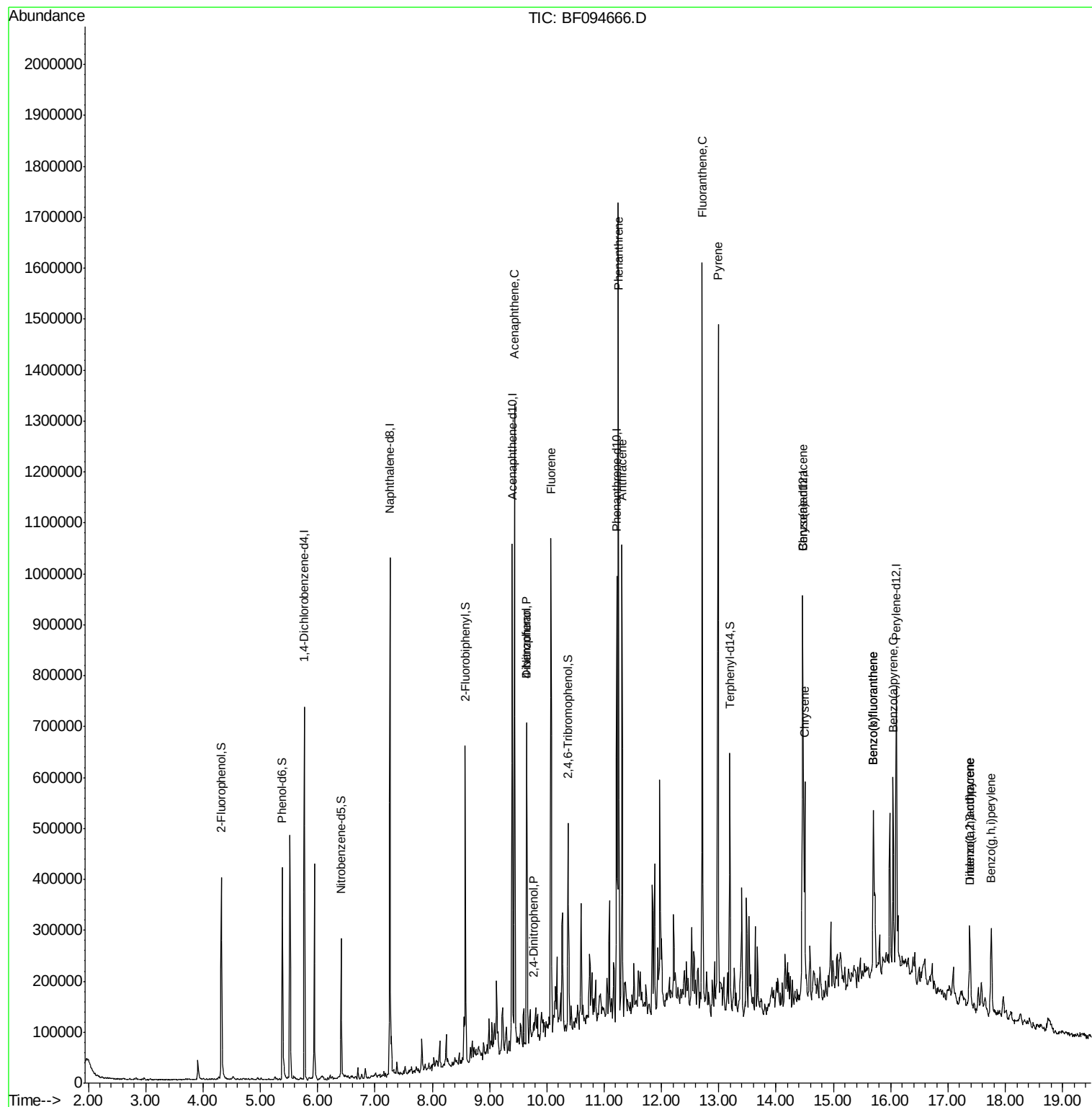
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	112011	20.00	ng	0.00
21) Naphthalene-d8	7.26	136	457528	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	212648	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	363716	20.00	ng	0.00
75) Chrysene-d12	14.47	240	258816	20.00	ng	0.00
86) Perylene-d12	16.10	264	220913	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	133695	19.80	ng	0.02
7) Phenol-d6	5.38	99	165996	20.86	ng	0.00
23) Nitrobenzene-d5	6.41	82	98933	13.35	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	32150	19.33	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	201637	13.95	ng	0.00
78) Terphenyl-d14	13.19	244	158001	16.32	ng	0.00
Target Compounds						Qvalue
51) Acenaphthene	9.44	154	275877	21.39	ng	99
53) 2,4-Dinitrophenol	9.77	184	115	5.81	ng	# 4
54) Dibenzofuran	9.65	168	270719	14.44	ng	98
55) 4-Nitrophenol	9.65	139	99680	34.28	ng	# 28
57) Fluorene	10.07	166	292866	20.06	ng	99
70) Phenanthrene	11.25	178	707347	34.54	ng	97
71) Anthracene	11.31	178	376226	17.76	ng	99
74) Fluoranthene	12.71	202	644243	30.35	ng	100
77) Pyrene	12.99	202	609235	33.69	ng	99
80) Benzo(a)anthracene	14.46	228	186879	12.42	ng	98
82) Chrysene	14.50	228	179864	13.08	ng	97
85) Indeno(1,2,3-cd)pyrene	17.38	276	89653	6.85	ng	94
87) Benzo(b)fluoranthene	15.70	252	229839	17.01	ng	97
88) Benzo(k)fluoranthene	15.70	252	229839	17.97	ng	96
89) Benzo(a)pyrene	16.04	252	152957	12.17	ng	98
90) Dibenzo(a,h)anthracene	17.39	278	25740	2.47	ng	# 86
91) Benzo(g,h,i)perylene	17.75	276	118161	11.12	ng	100

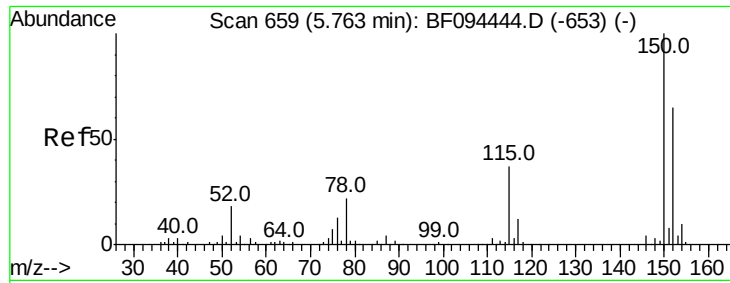
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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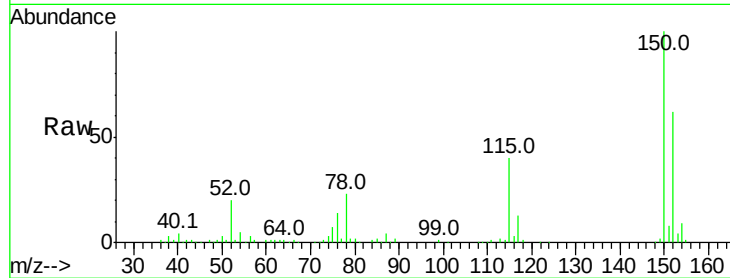


#1

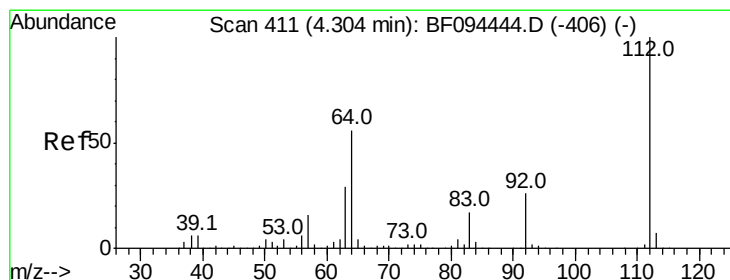
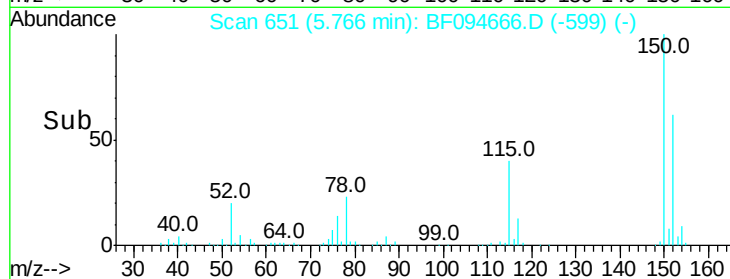
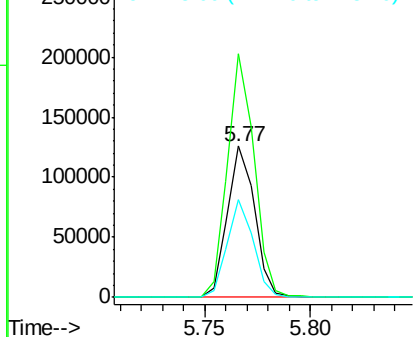
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 651
Delta R.T. 0.00 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 112011
Ion Ratio Lower Upper
152 100
150 161.2 126.2 189.2
115 64.7 52.2 78.2



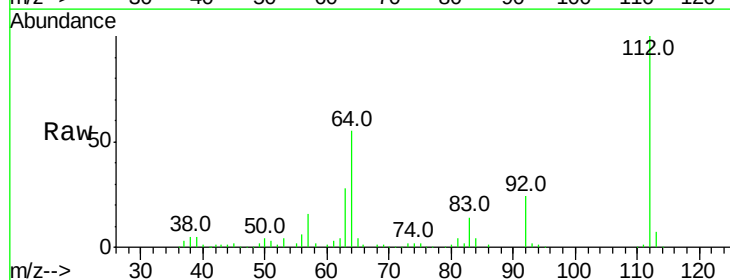
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



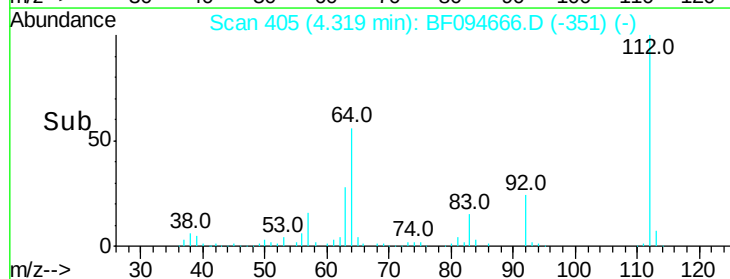
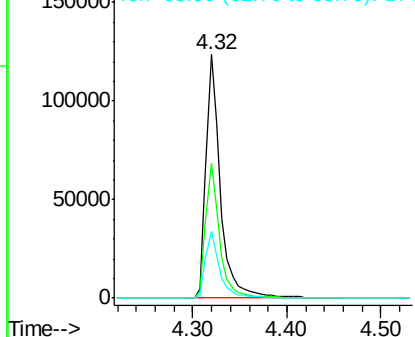
#5

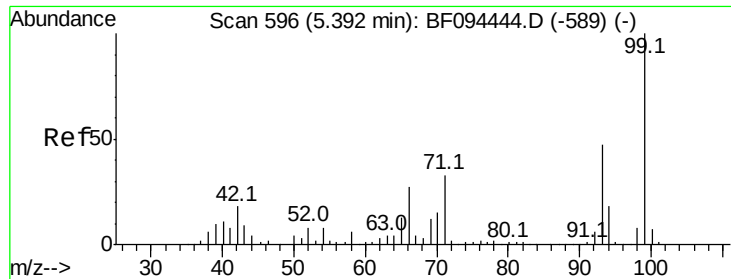
2-Fluorophenol
Concen: 19.80 ng
RT: 4.32 min Scan# 405
Delta R.T. 0.02 min
Lab File: BF094666.D
Acq: 27 Apr 2017 14:38

Tgt Ion:112 Resp: 133695
Ion Ratio Lower Upper
112 100
64 55.3 46.0 69.0
63 27.6 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: 20.86 ng

RT: 5.38 min Scan# 586

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

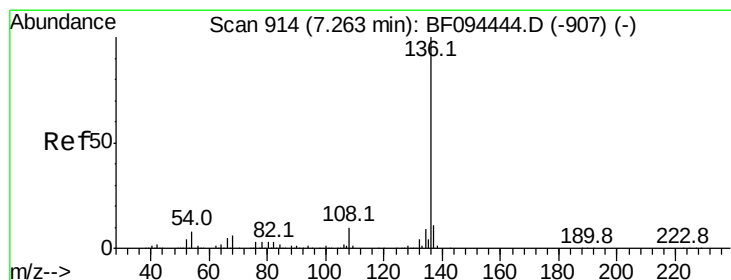
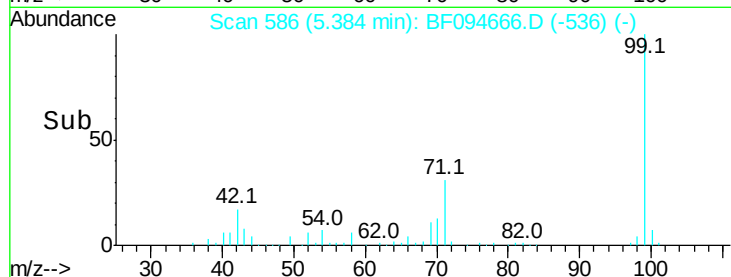
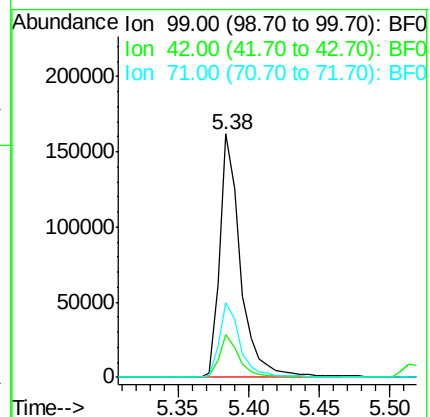
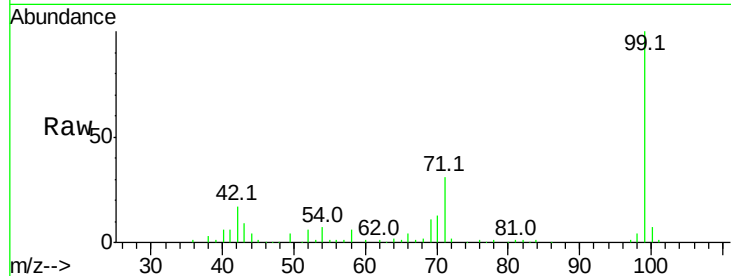
Tot Ion: 99 Resp: 165996

Ion Ratio Lower Upper

99 100

42 17.3 13.5 20.3

71 30.6 24.5 36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Tgt Ion: 136 Resp: 457528

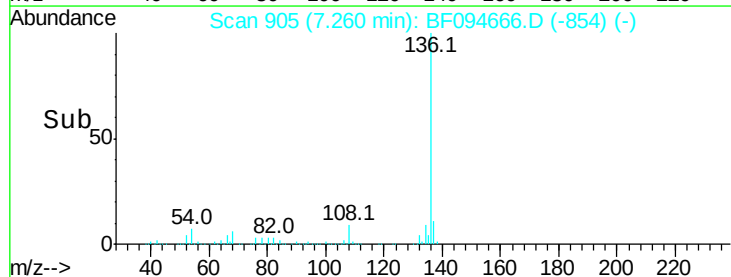
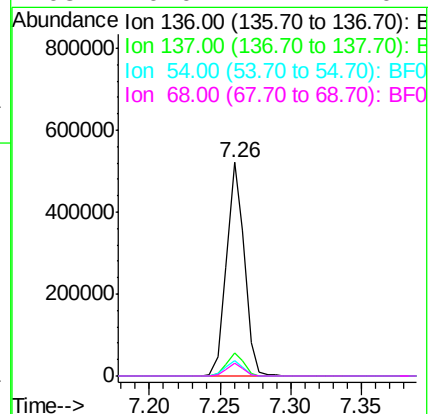
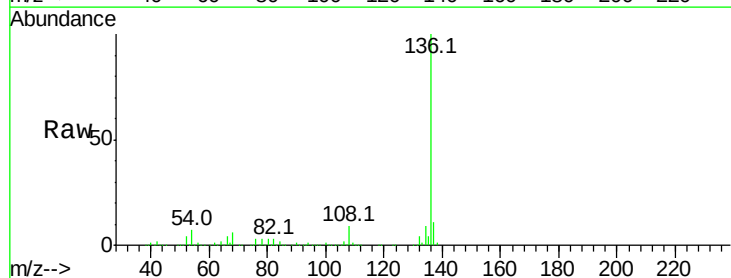
Ion Ratio Lower Upper

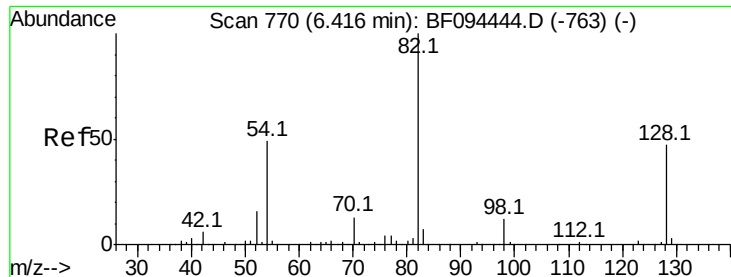
136 100

137 10.7 8.5 12.7

54 7.1 4.9 7.3

68 6.0 4.1 6.1





#23

Nitrobenzene-d5

Concen: 13.35 ng

RT: 6.41 min Scan# 761

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampled :

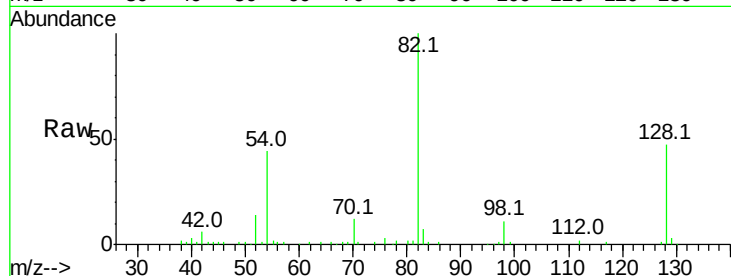
Tot Ion: 82 Resp: 98933

Ion Ratio Lower Upper

82 100

128 46.9 34.0 51.0

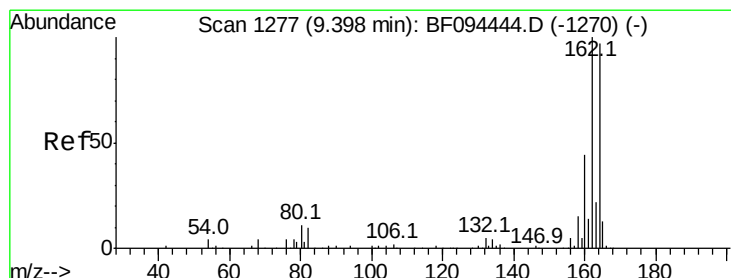
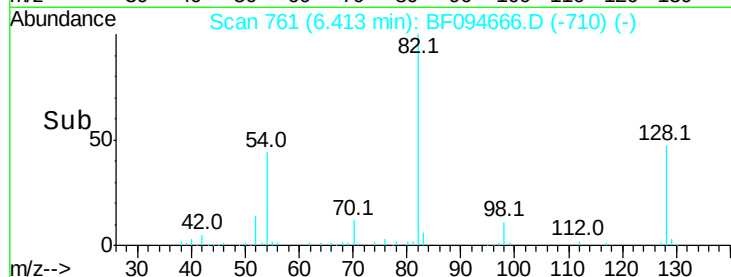
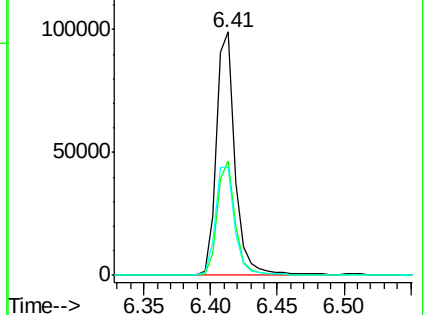
54 44.2 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.40 min Scan# 1268

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

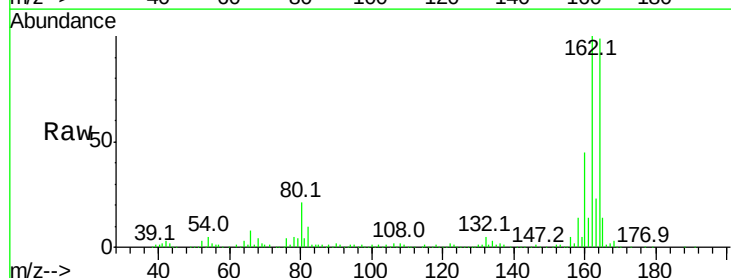
Tgt Ion:164 Resp: 212648

Ion Ratio Lower Upper

164 100

162 100.7 82.6 123.8

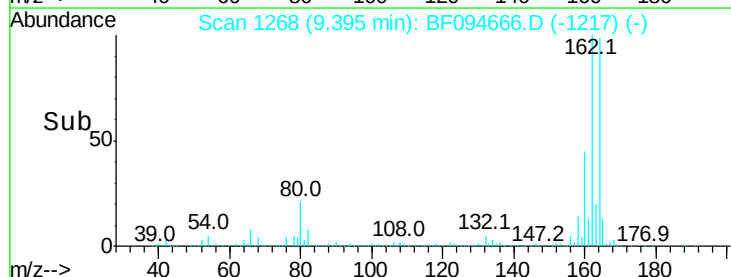
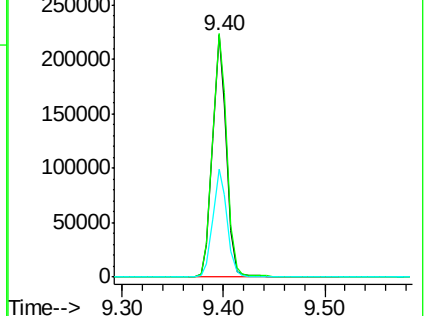
160 44.8 36.2 54.2

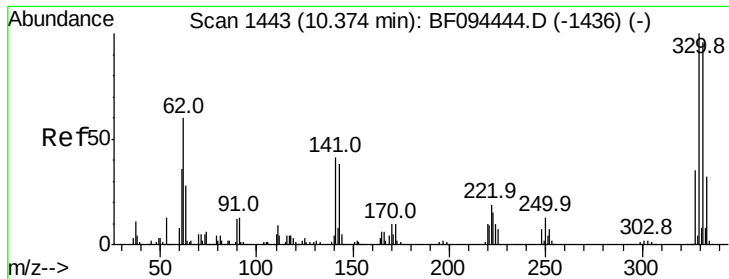


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

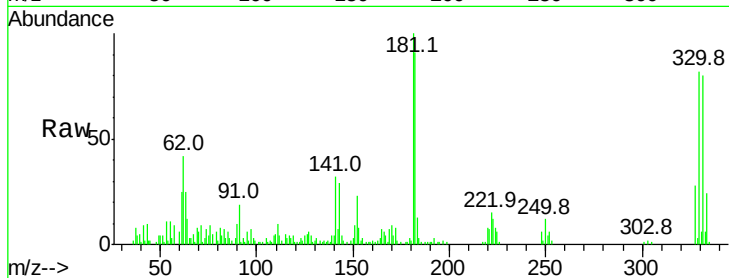




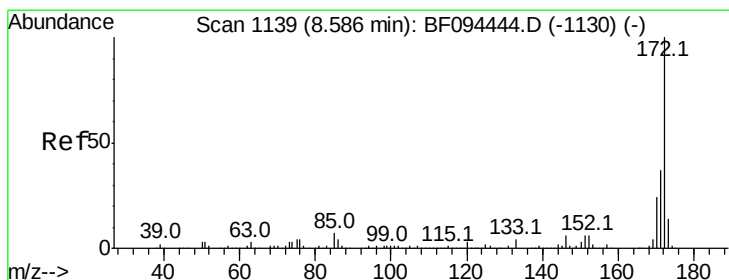
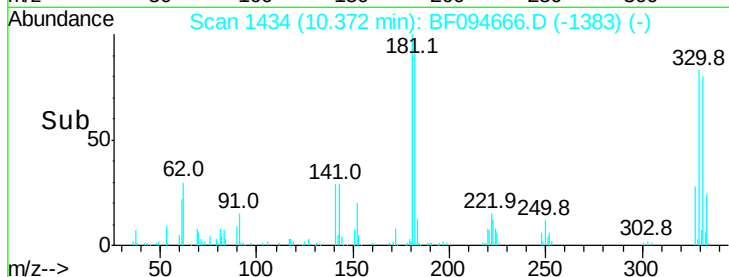
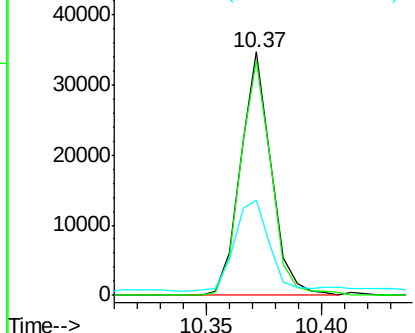
#41
 2,4,6-Tribromophenol
 Concen: 19.33 ng
 RT: 10.37 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 32150
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 115.0
 141 42.6 31.4 47.2

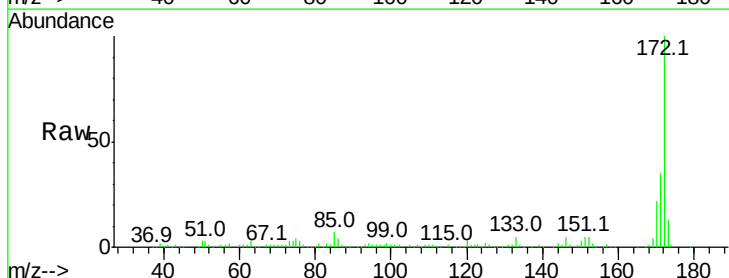


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

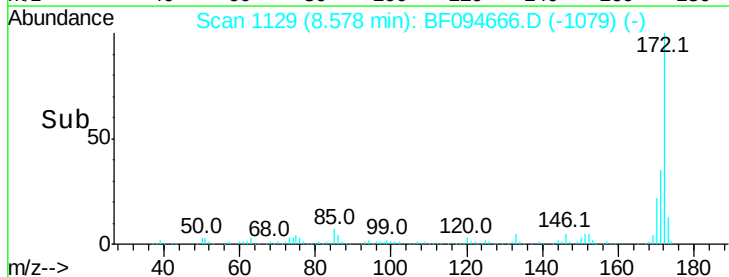
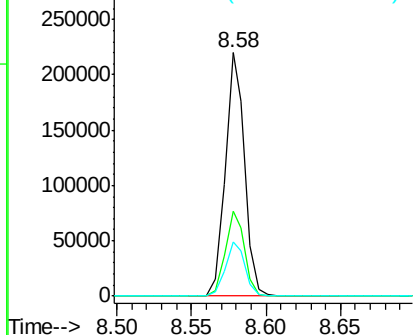


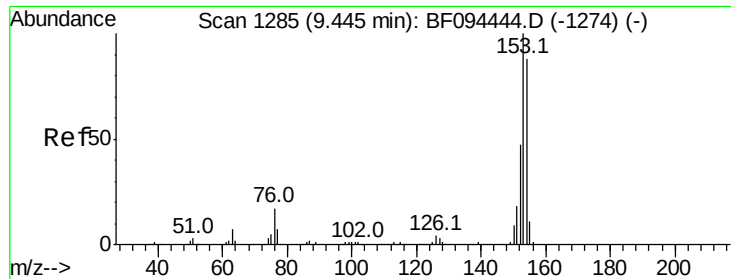
#44
 2-Fluorobiphenyl
 Concen: 13.95 ng
 RT: 8.58 min Scan# 1129
 Delta R.T. -0.01 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion:172 Resp: 201637
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 22.4 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





#51

Acenaphthene

Concen: 21.39 ng

RT: 9.44 min Scan# 1275

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampled :

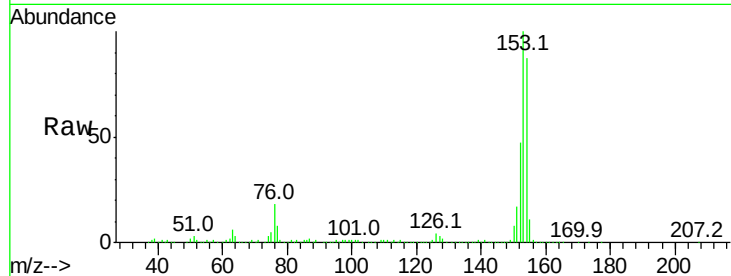
Tot Ion:154 Resp: 275877

Ion Ratio Lower Upper

154 100

153 114.4 90.5 135.7

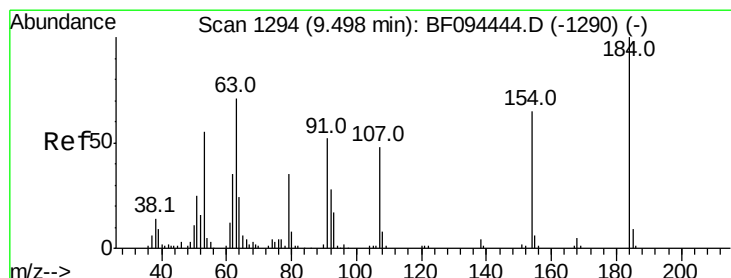
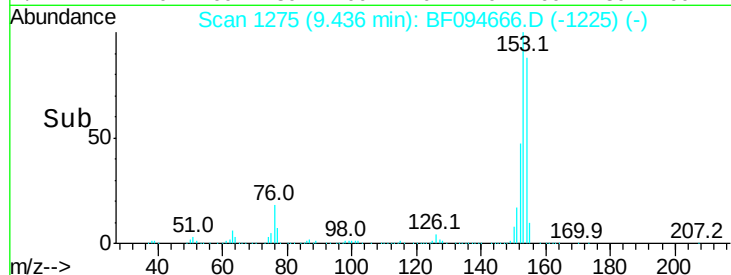
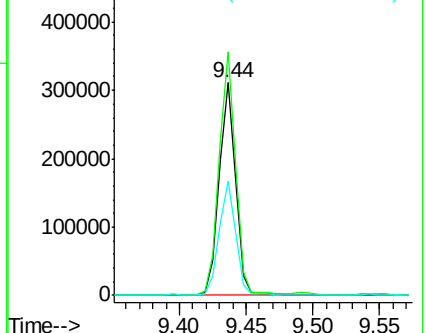
152 53.7 43.6 65.4



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



#53

2,4-Dinitrophenol

Concen: 5.81 ng

RT: 9.77 min Scan# 1331

Delta R.T. 0.27 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

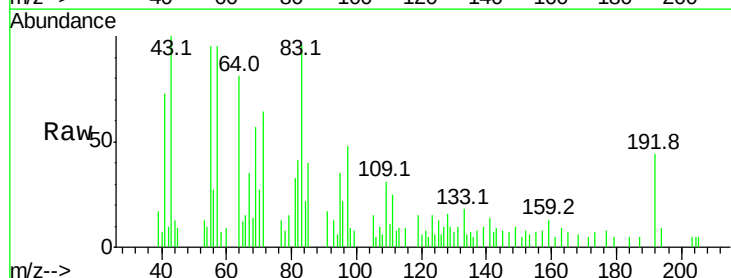
Tgt Ion:184 Resp: 115

Ion Ratio Lower Upper

184 100

63 0.0 62.7 94.1#

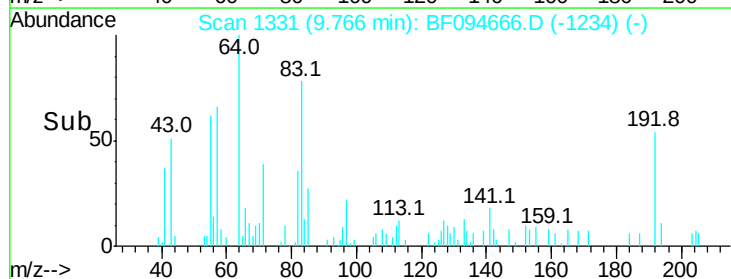
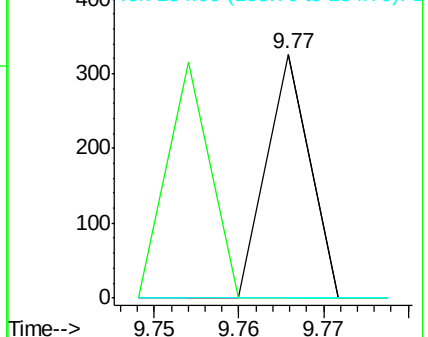
154 0.0 81.1 121.7#

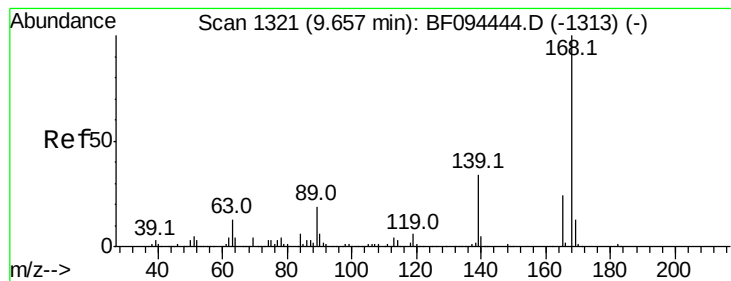


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 14.44 ng

RT: 9.65 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

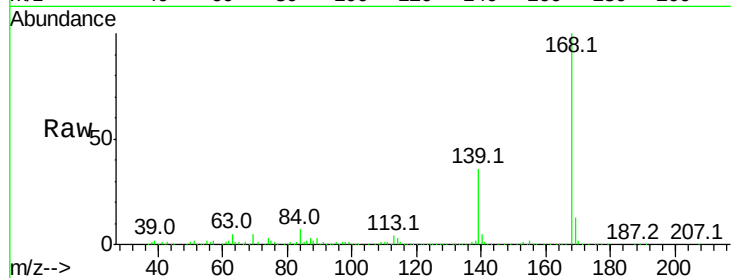
Tot Ion:168 Resp: 270719

Ion Ratio Lower Upper

168 100

139 36.4 30.6 45.8

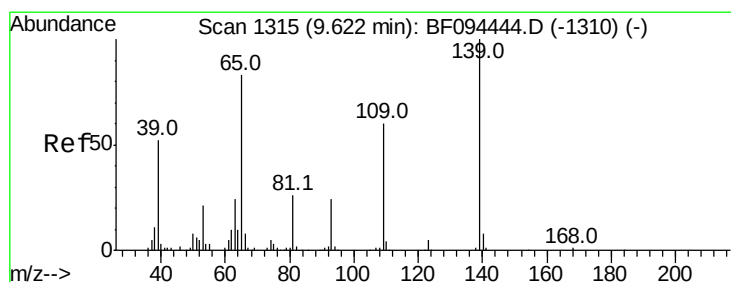
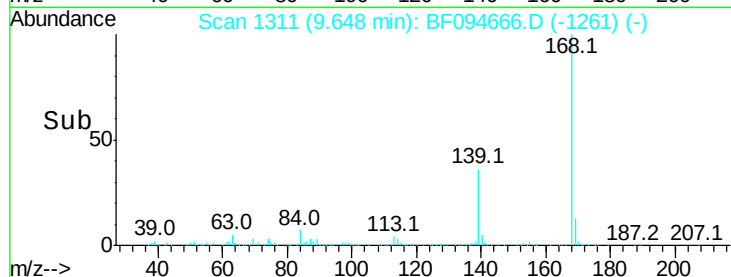
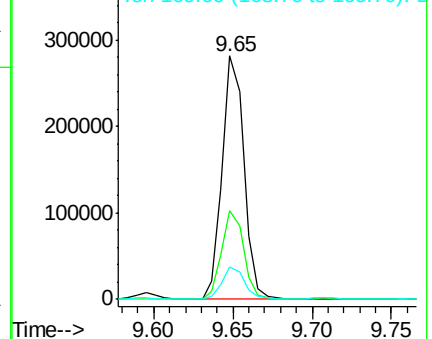
169 13.2 10.8 16.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 34.28 ng

RT: 9.65 min Scan# 1311

Delta R.T. 0.03 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

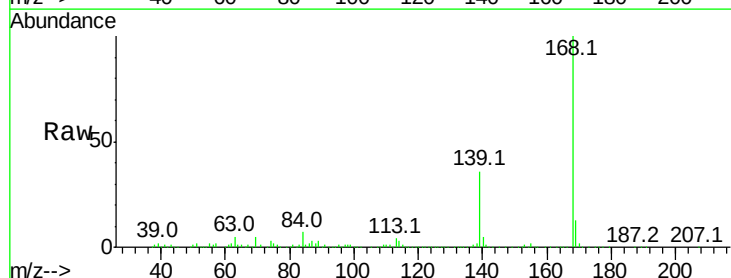
Tgt Ion:139 Resp: 99680

Ion Ratio Lower Upper

139 100

109 2.2 34.1 74.1#

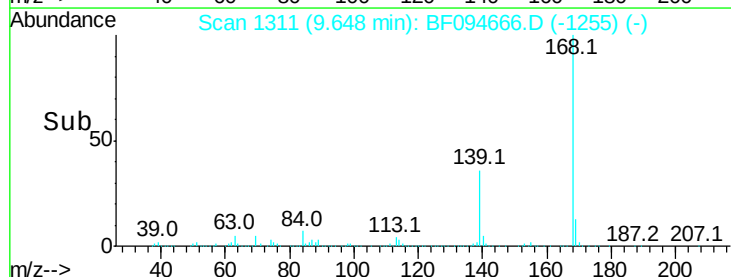
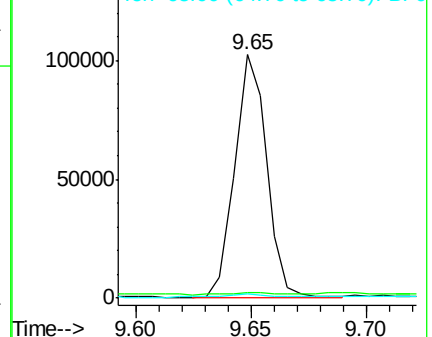
65 1.6 31.4 71.4#

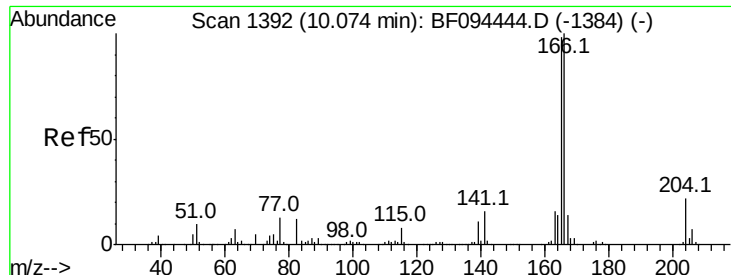


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

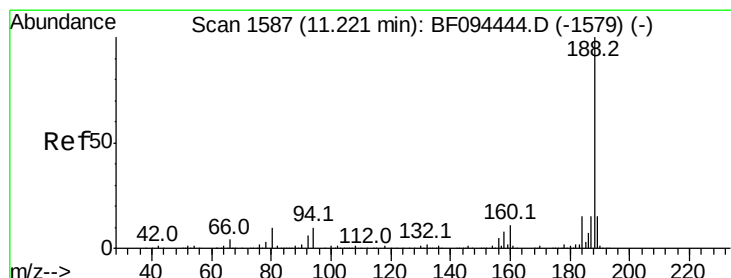
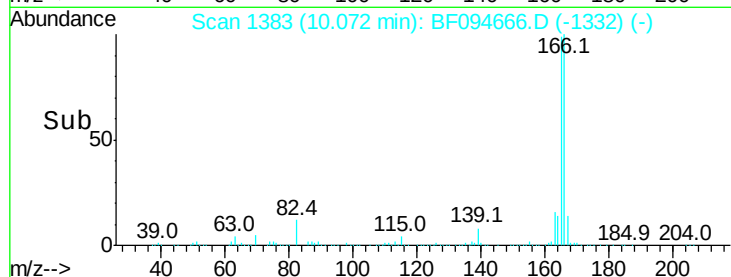
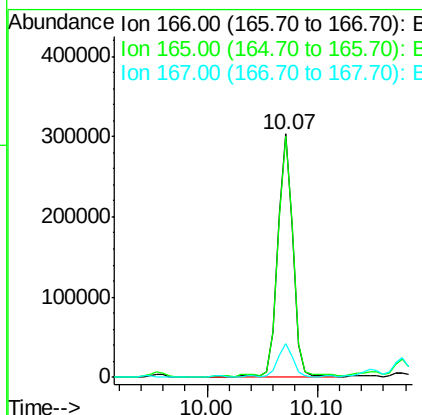
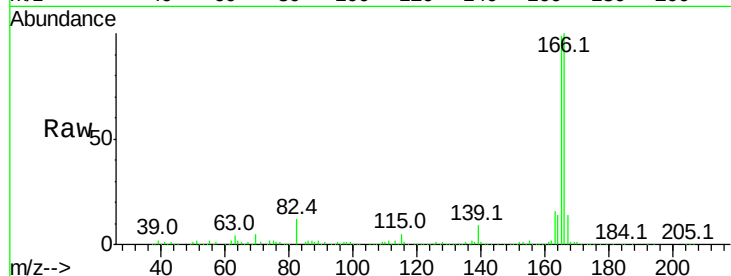




#57
 Fluorene
 Concen: 20.06 ng
 RT: 10.07 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

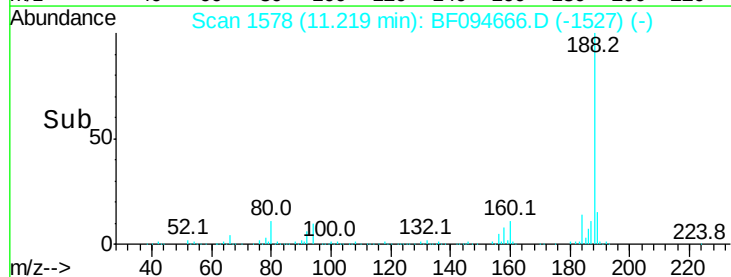
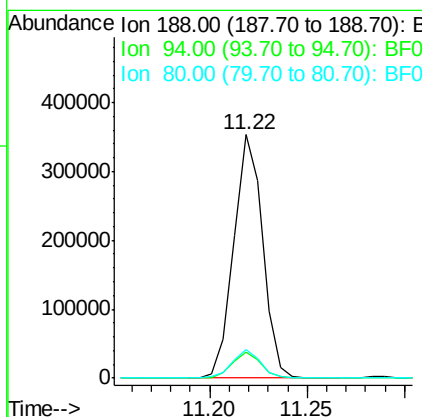
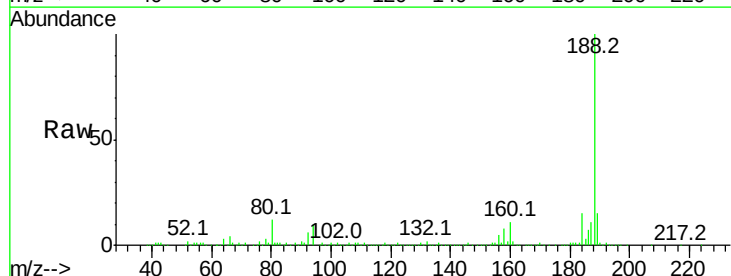
Instrument :
 BNA_F
 ClientSampleId :

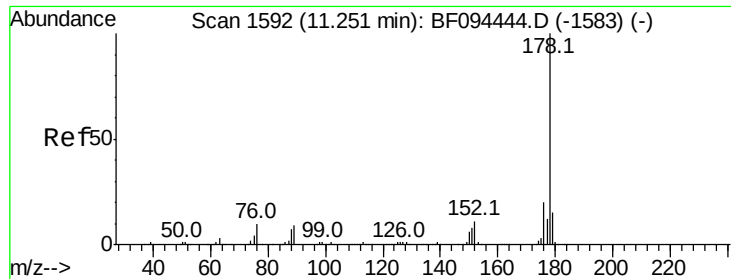
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	78.8	118.2
167	13.7	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF094666.D
 Acq: 27 Apr 2017 14:38

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.4	14.2
80	11.5	10.2	15.2





#70

Phenanthrene

Concen: 34.54 ng

RT: 11.25 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampled :

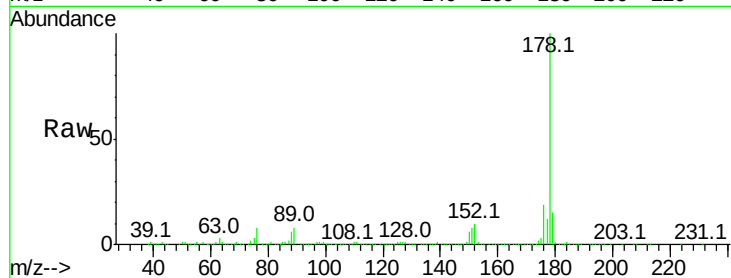
Tot Ion:178 Resp: 707347

Ion Ratio Lower Upper

178 100

176 18.7 16.2 24.4

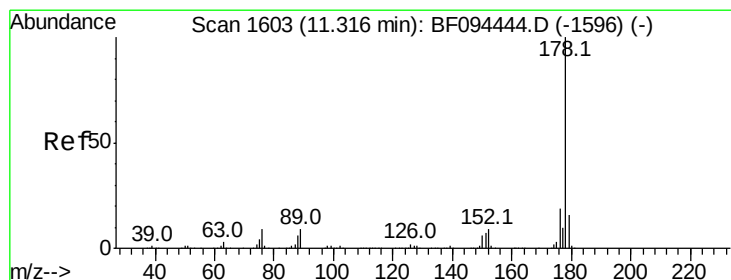
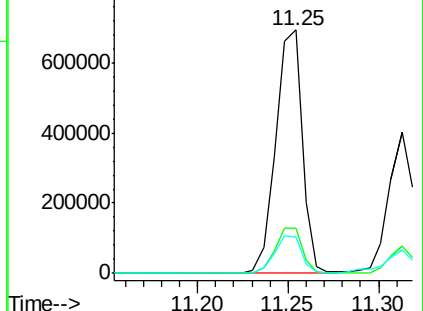
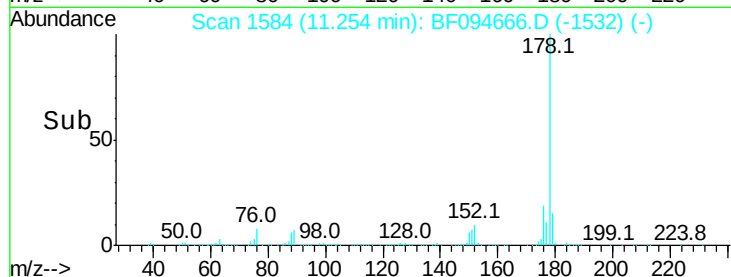
179 14.9 12.6 19.0



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: 17.76 ng

RT: 11.31 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

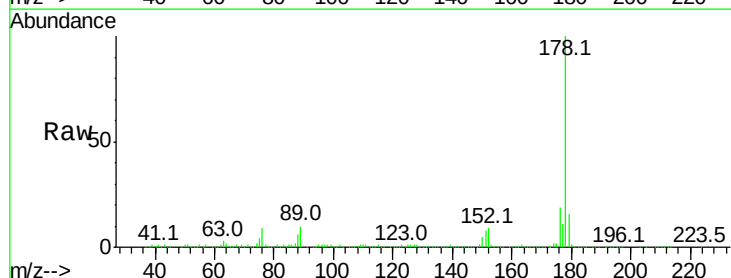
Tgt Ion:178 Resp: 376226

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

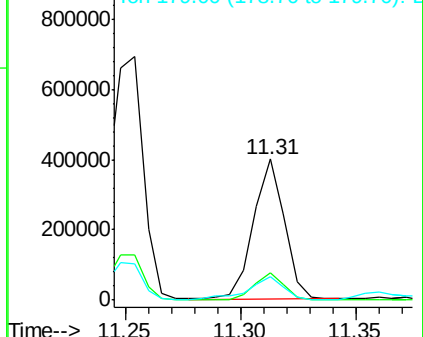
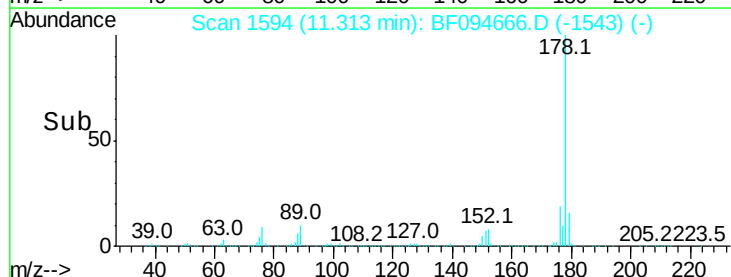
179 16.5 12.7 19.1

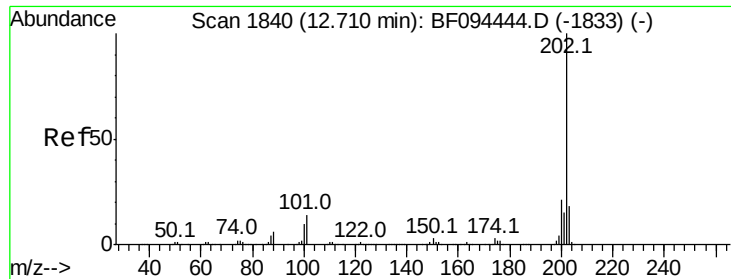


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 30.35 ng

RT: 12.71 min Scan# 1832

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

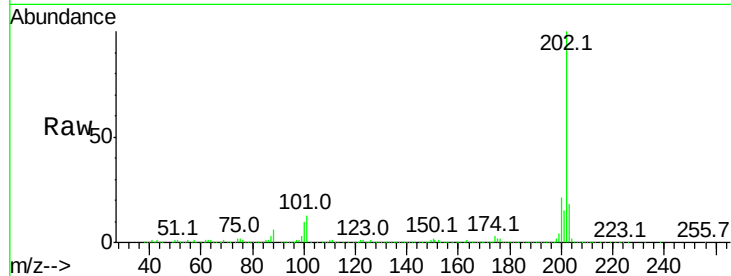
Tot Ion:202 Resp: 644243

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

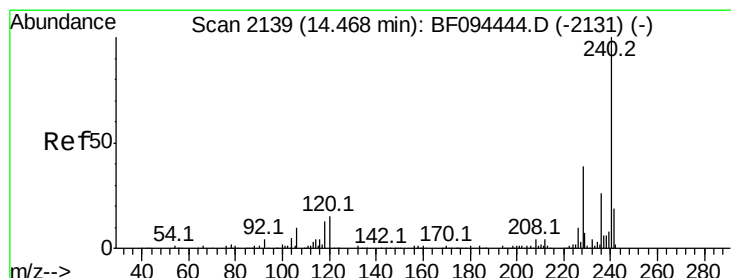
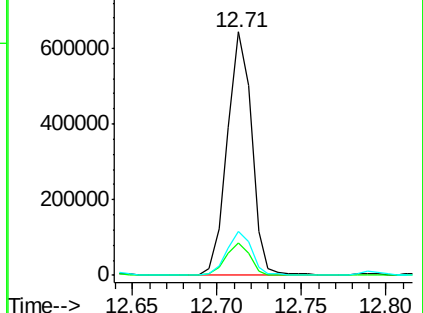
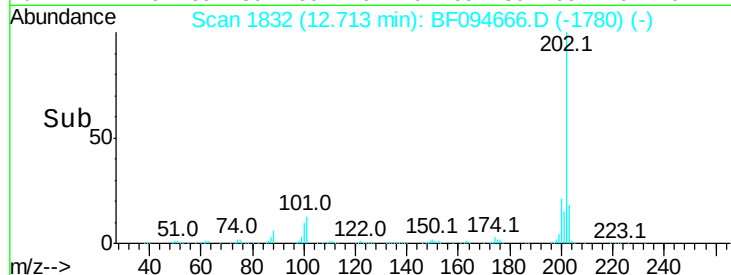
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.47 min Scan# 2131

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

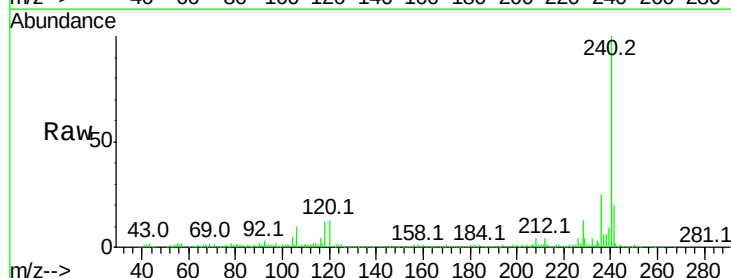
Tgt Ion:240 Resp: 258816

Ion Ratio Lower Upper

240 100

120 13.1 5.8 8.8#

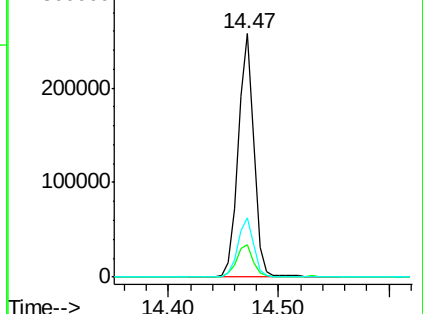
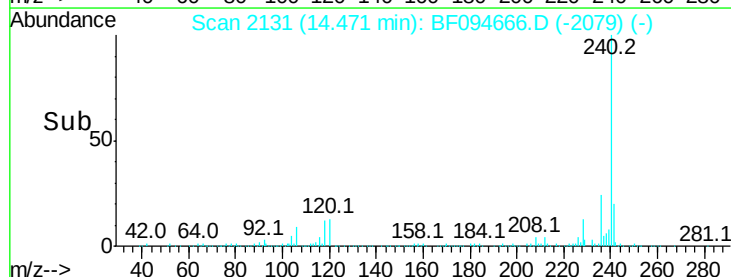
236 24.5 20.5 30.7

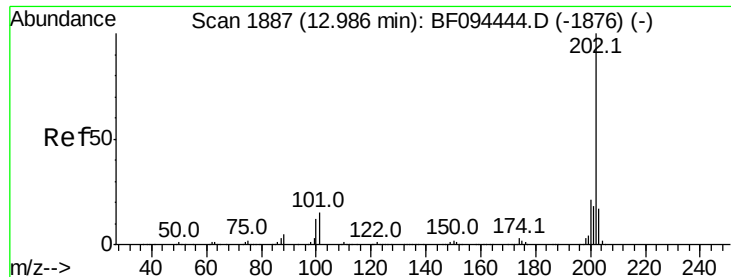


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 33.69 ng

RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

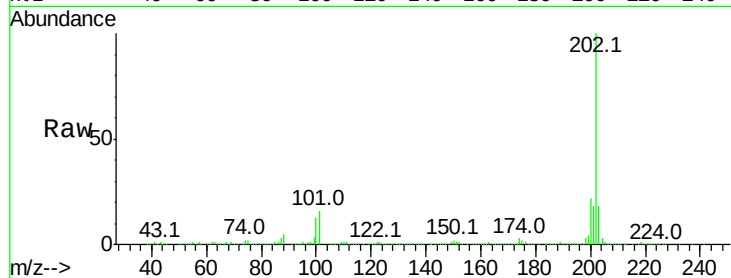
Tot Ion:202 Resp: 609235

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

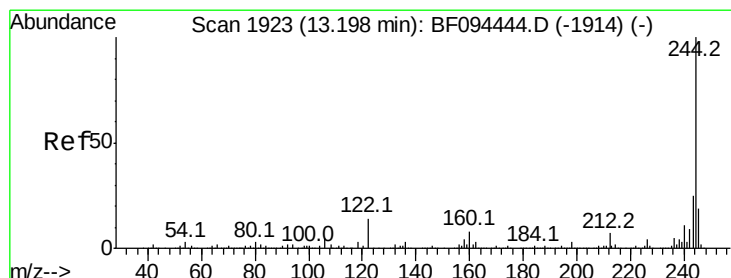
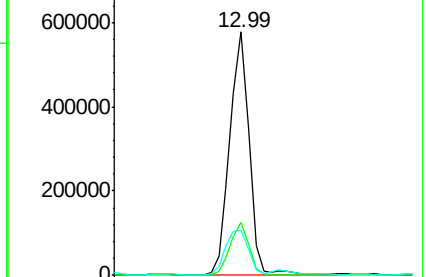
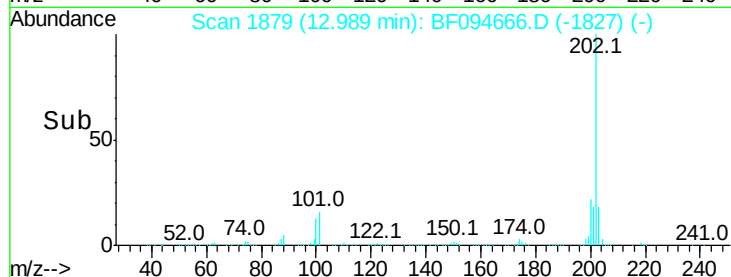
203 18.4 14.4 21.6



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: 16.32 ng

RT: 13.19 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

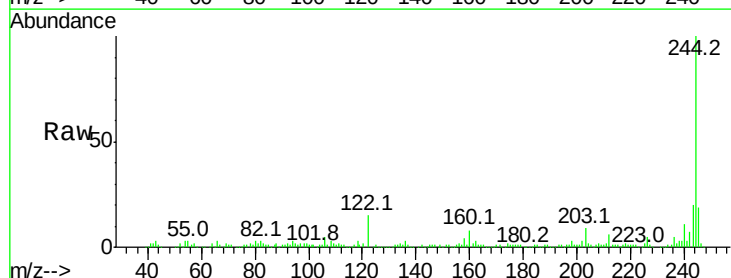
Tgt Ion:244 Resp: 158001

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

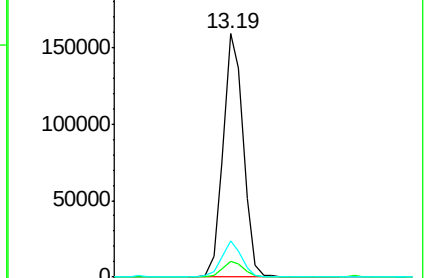
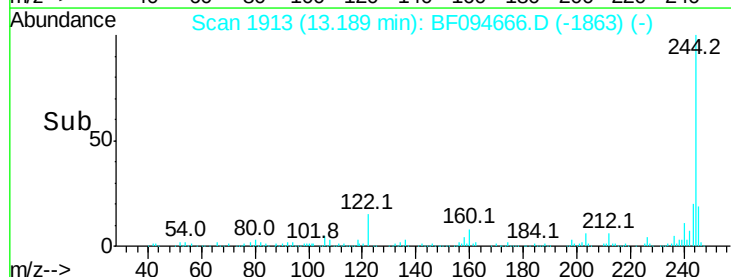
122 15.0 10.3 15.5

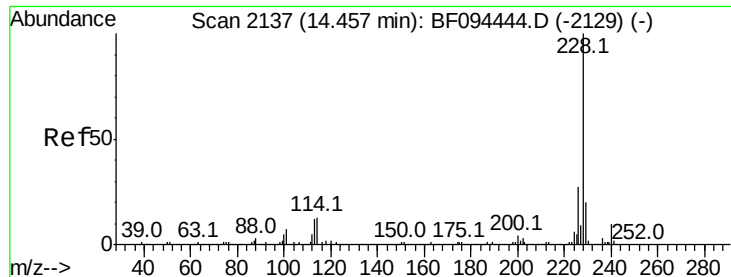


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.42 ng

RT: 14.46 min Scan# 2129

Delta R.T. 0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

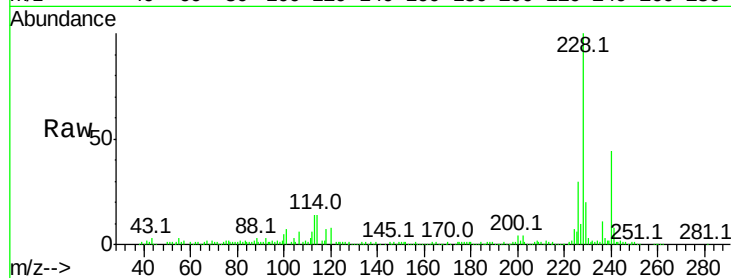
Tot Ion:228 Resp: 186879

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

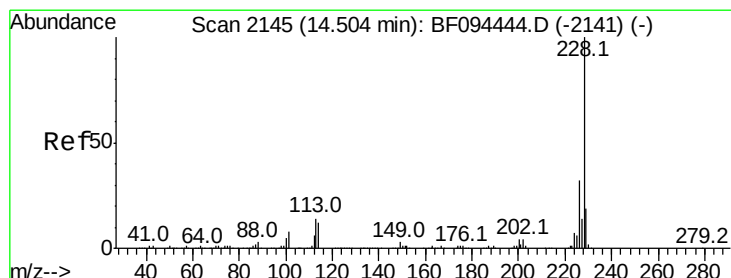
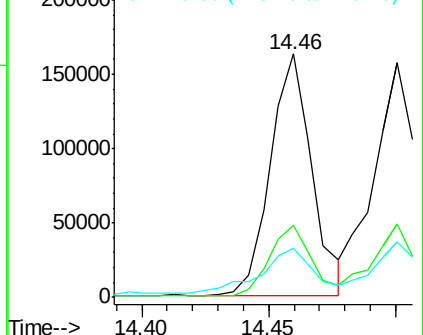
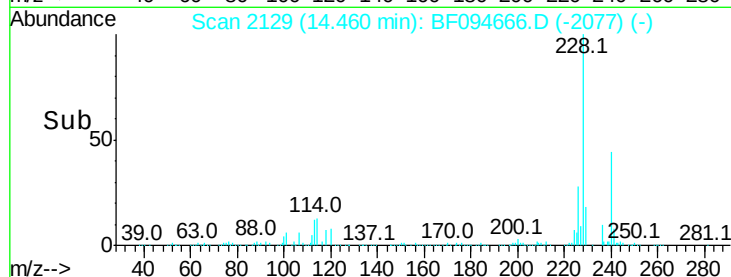
229 20.3 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 13.08 ng

RT: 14.50 min Scan# 2136

Delta R.T. -0.00 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

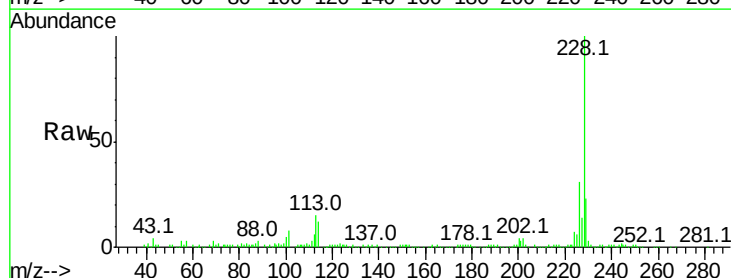
Tgt Ion:228 Resp: 179864

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

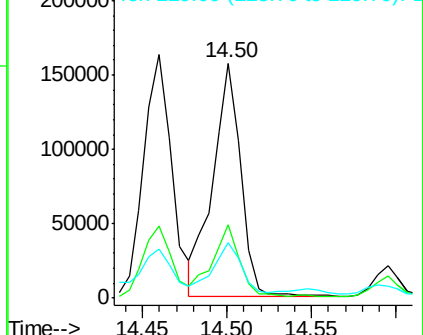
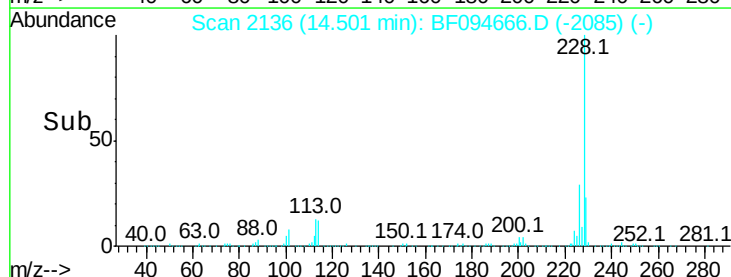
229 23.4 15.8 23.6

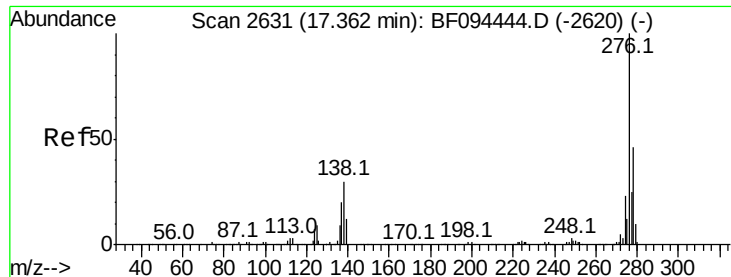


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.85 ng

RT: 17.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

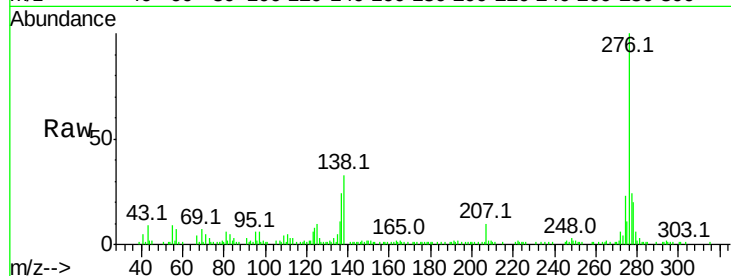
Tot Ion:276 Resp: 89653

Ion Ratio Lower Upper

276 100

138 30.0 27.8 41.6

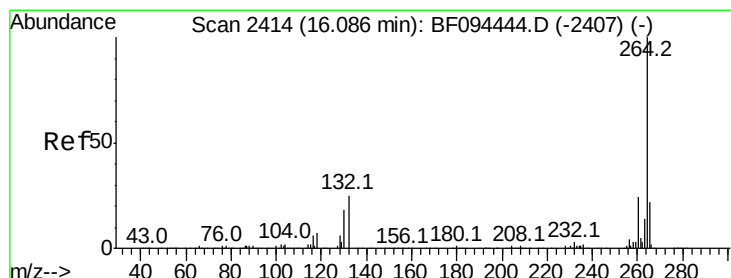
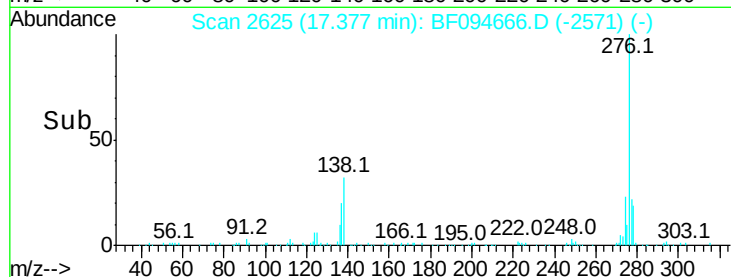
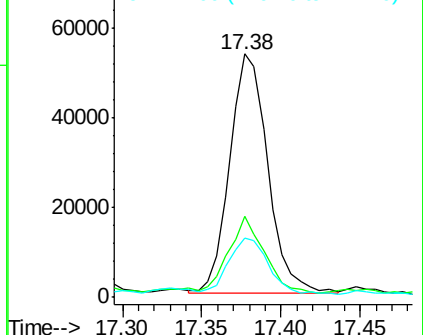
277 24.3 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.10 min Scan# 2408

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

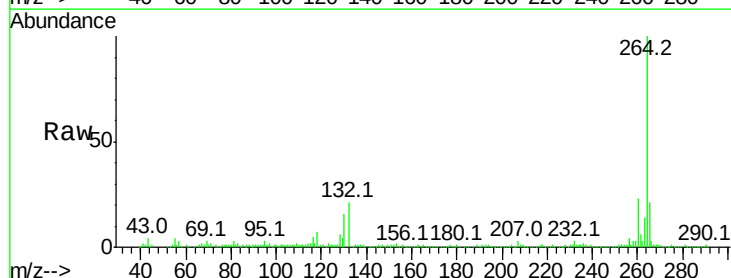
Tgt Ion:264 Resp: 220913

Ion Ratio Lower Upper

264 100

260 23.1 19.5 29.3

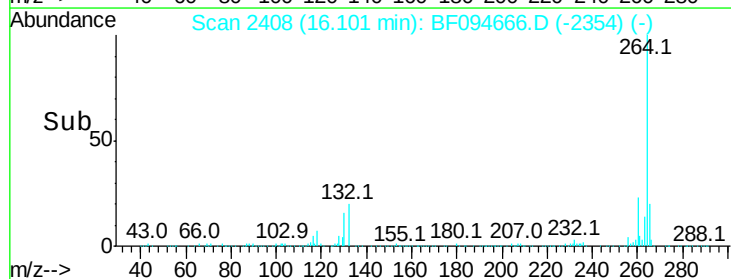
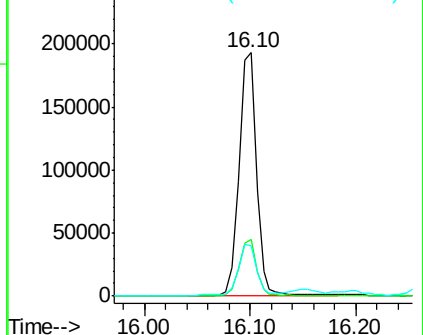
265 20.7 17.2 25.8

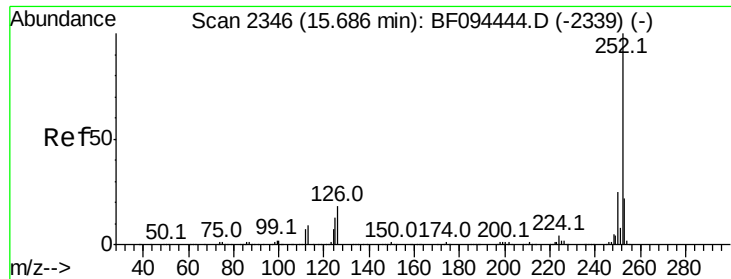


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 17.01 ng

RT: 15.70 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

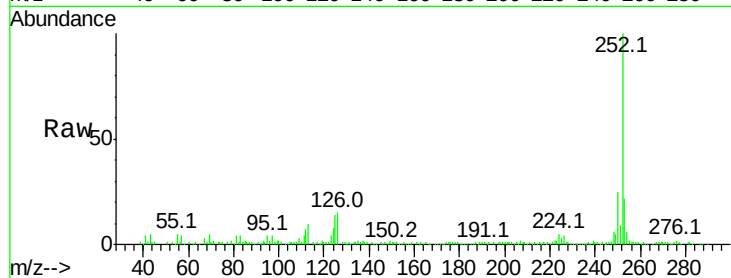
Tot Ion:252 Resp: 229839

Ion Ratio Lower Upper

252 100

253 21.8 18.1 27.1

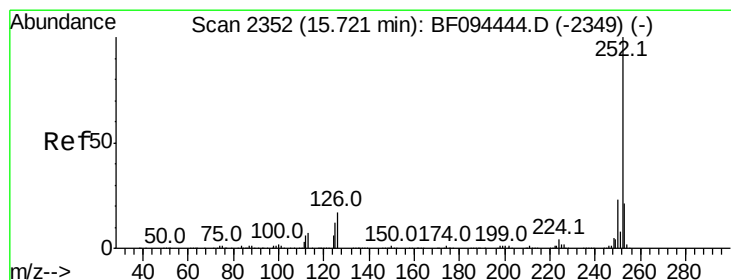
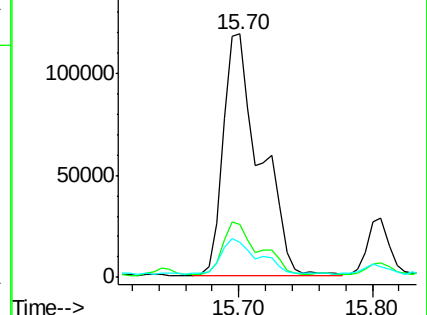
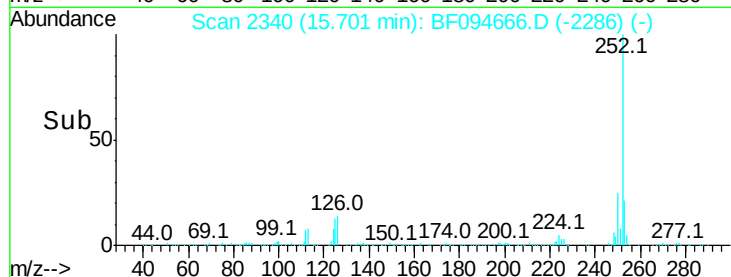
125 14.2 9.8 14.8



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: 17.97 ng

RT: 15.70 min Scan# 2340

Delta R.T. -0.02 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

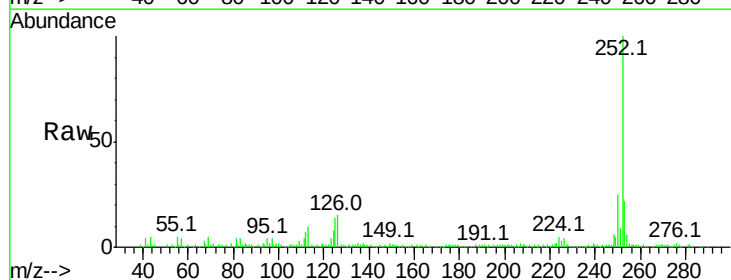
Tgt Ion:252 Resp: 229839

Ion Ratio Lower Upper

252 100

253 21.8 18.4 27.6

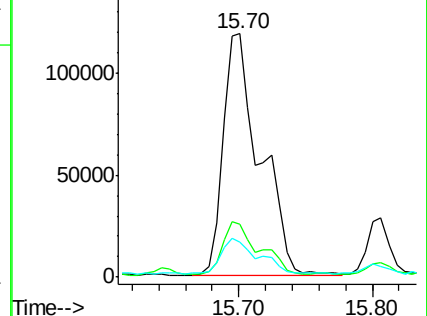
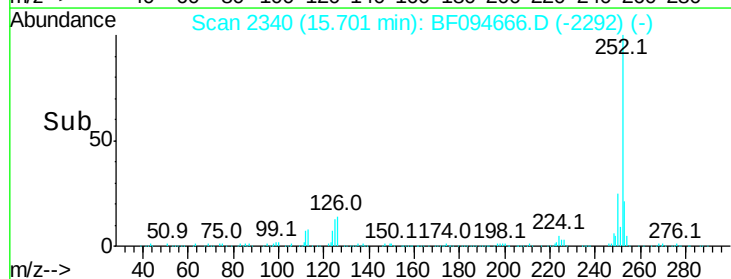
125 14.2 13.1 19.7

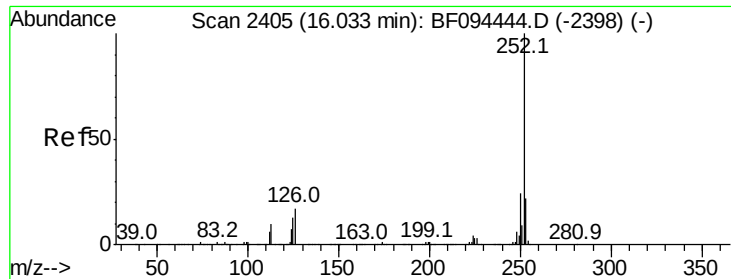


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 12.17 ng

RT: 16.04 min Scan# 2398

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

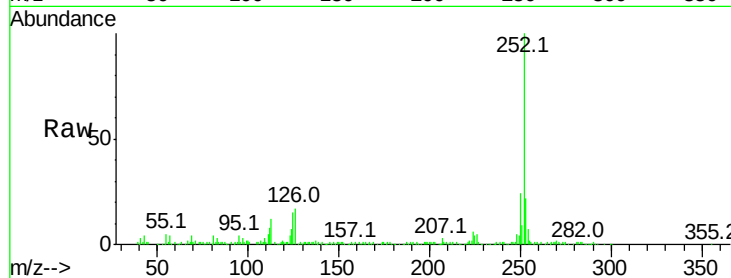
Tot Ion:252 Resp: 152957

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

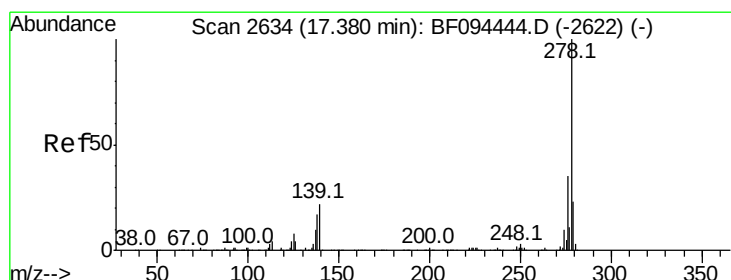
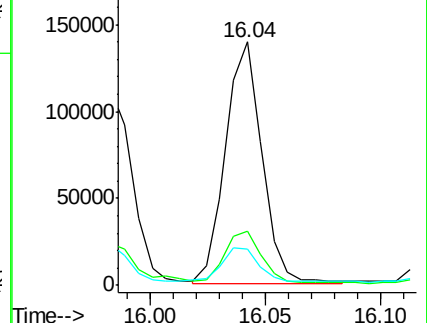
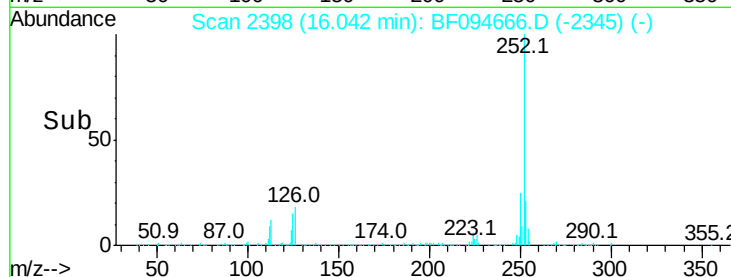
125 14.8 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.47 ng

RT: 17.39 min Scan# 2627

Delta R.T. 0.01 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

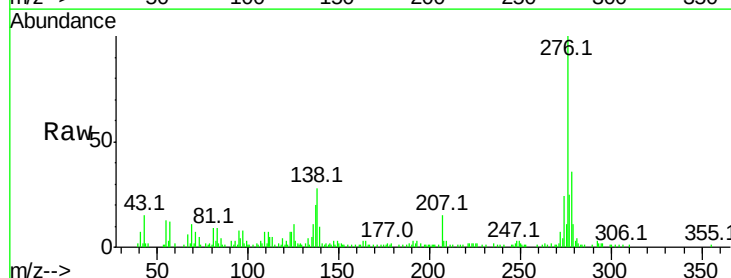
Tgt Ion:278 Resp: 25740

Ion Ratio Lower Upper

278 100

139 28.9 16.6 24.8#

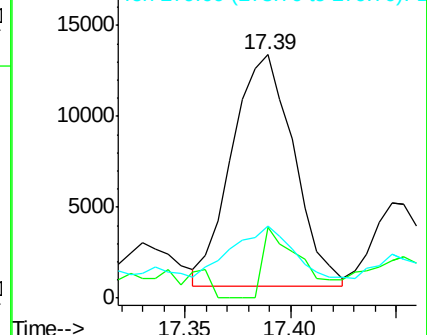
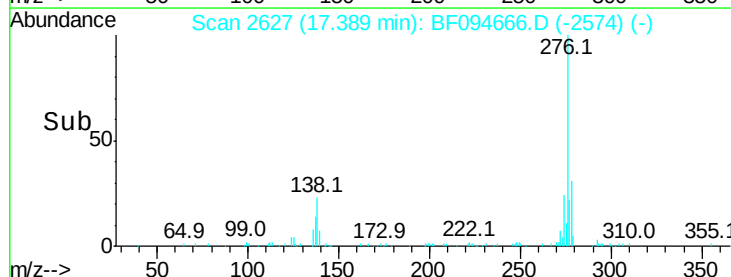
279 29.6 19.3 28.9#

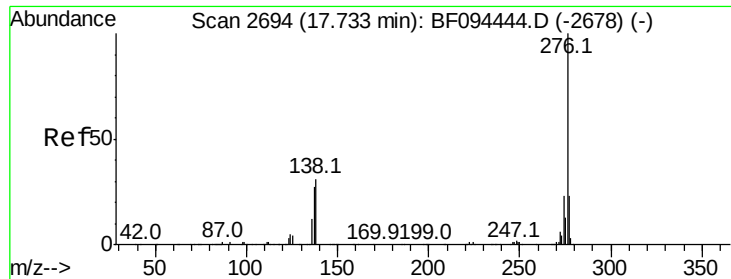


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 11.12 ng

RT: 17.75 min Scan# 2689

Delta R.T. 0.02 min

Lab File: BF094666.D

Acq: 27 Apr 2017 14:38

Instrument :

BNA_F

ClientSampleId :

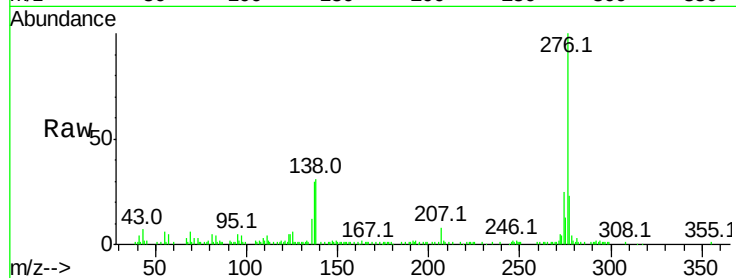
Tot Ion:276 Resp: 118161

Ion Ratio Lower Upper

276 100

277 23.4 18.6 28.0

138 31.3 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

