

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094506.D
 Acq On : 19 Apr 2017 00:23
 Operator : SJ/MA
 Sample : I2707-04 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 19 03:03:30 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

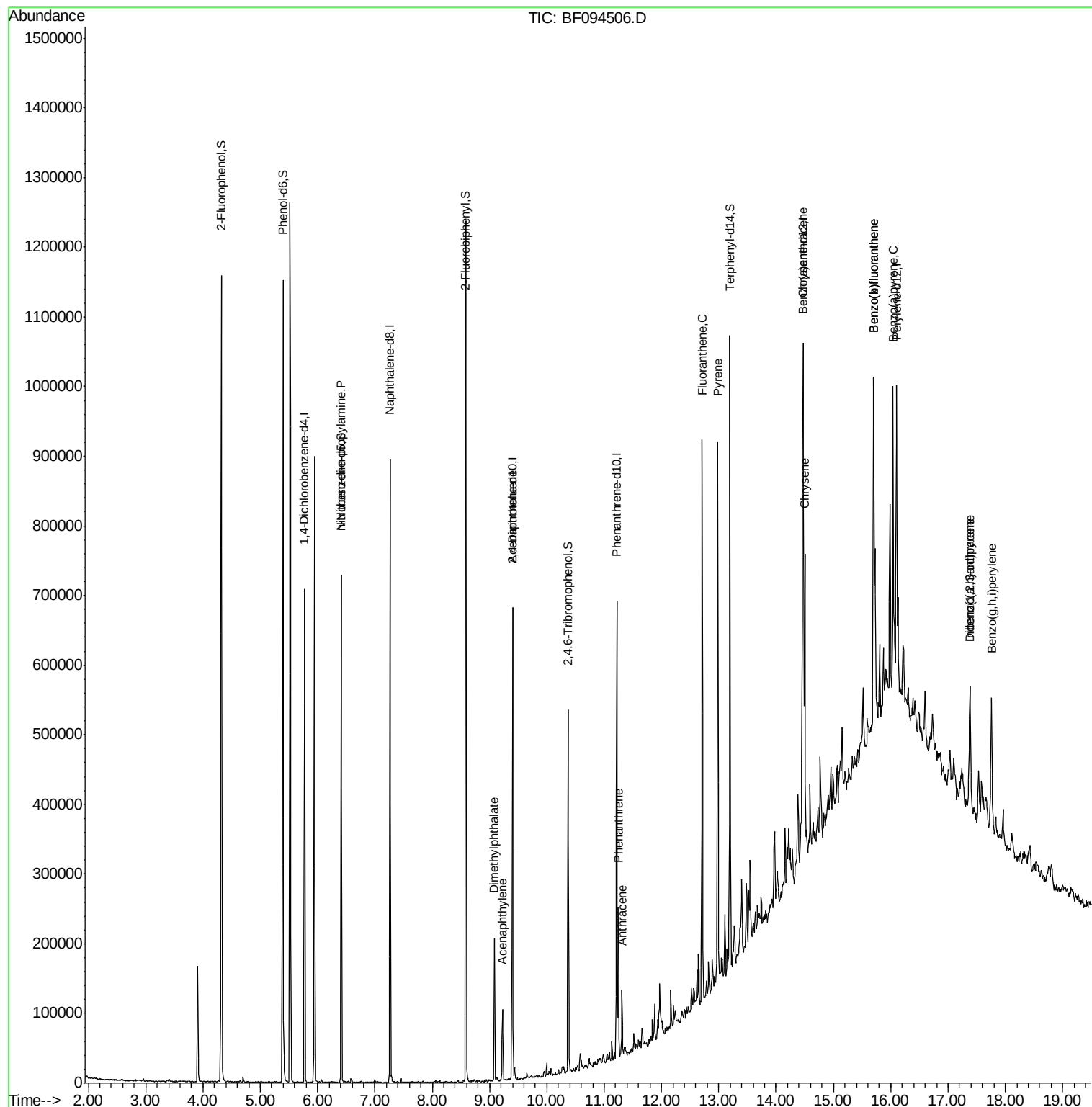
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	106936	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	404542	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	140816	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	254022	20.00	ng	0.00
75) Chrysene-d12	14.47	240	239660	20.00	ng	0.00
86) Perylene-d12	16.10	264	181425	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	327966	50.88	ng	0.02
7) Phenol-d6	5.40	99	388850	51.17	ng	0.00
23) Nitrobenzene-d5	6.41	82	218187	33.30	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	57631	52.32	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	401536	41.96	ng	0.00
78) Terphenyl-d14	13.19	244	295312	32.94	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.41	70	28200	5.60	ng	# 77
48) Acenaphthylene	9.22	152	47780	3.35	ng	98
49) Dimethylphthalate	9.09	163	92121	8.78	ng	98
56) 2,4-Dinitrotoluene	9.40	165	18479	6.39	ng	# 32
70) Phenanthrene	11.25	178	80801	5.65	ng	97
71) Anthracene	11.31	178	38421	2.60	ng	97
74) Fluoranthene	12.71	202	354883	23.94	ng	98
77) Pyrene	12.99	202	358941	21.44	ng	99
80) Benzo(a)anthracene	14.46	228	195147	14.01	ng	98
82) Chrysene	14.50	228	193933	15.23	ng	97
85) Indeno(1,2,3-cd)pyrene	17.38	276	112797	9.31	ng	96
87) Benzo(b)fluoranthene	15.70	252	361445	32.57	ng	# 96
88) Benzo(k)fluoranthene	15.70	252	361445	34.41	ng	100
89) Benzo(a)pyrene	16.04	252	181833	17.61	ng	96
90) Dibenzo(a,h)anthracene	17.39	278	31572	3.68	ng	# 79
91) Benzo(g,h,i)perylene	17.76	276	140451	16.09	ng	95

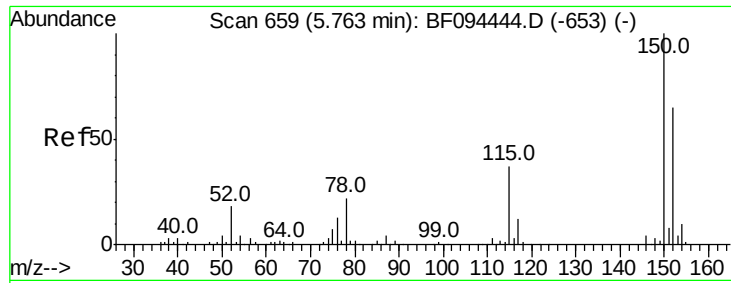
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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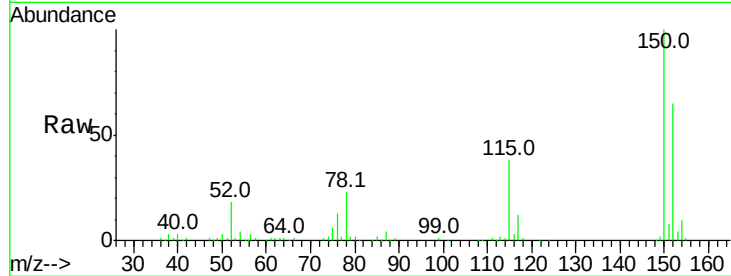


#1

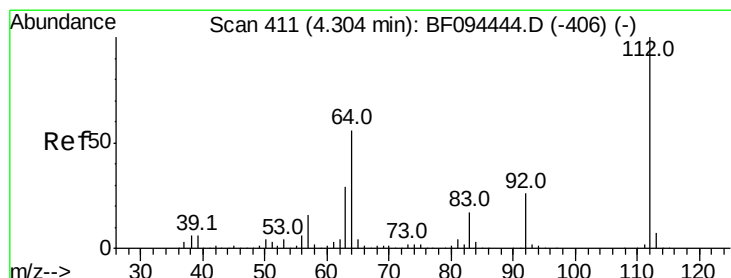
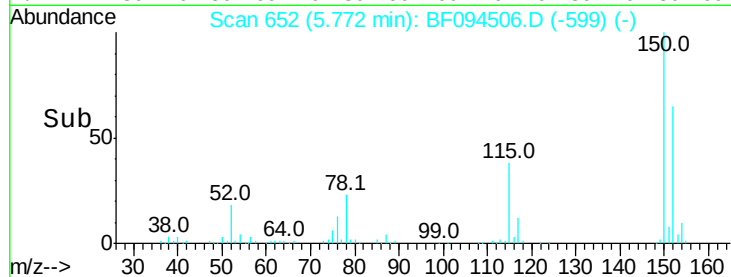
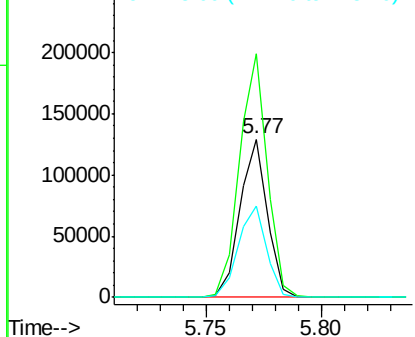
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 106936
Ion Ratio Lower Upper
152 100
150 154.1 126.2 189.2
115 58.1 52.2 78.2



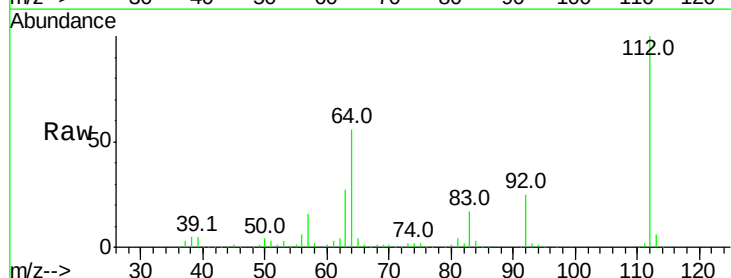
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



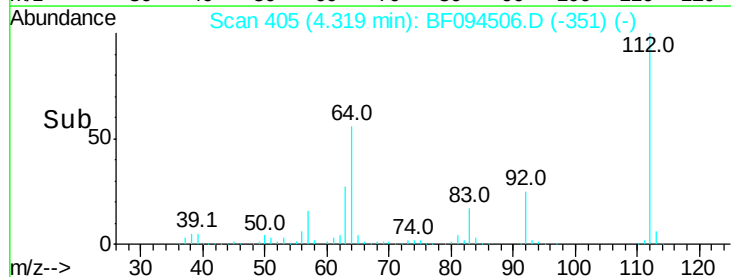
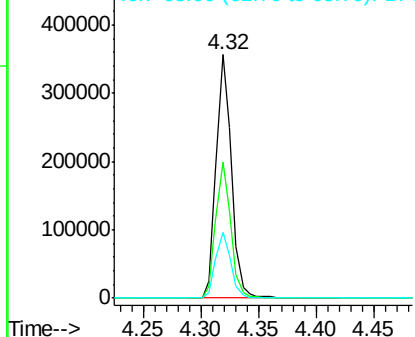
#5

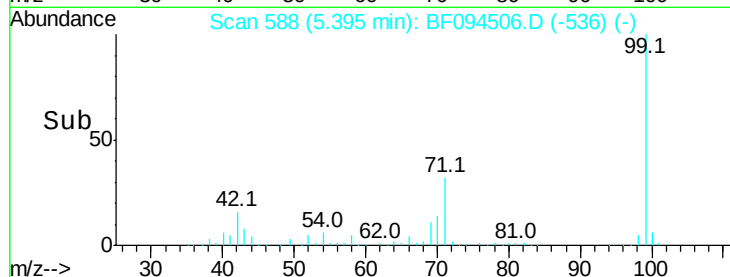
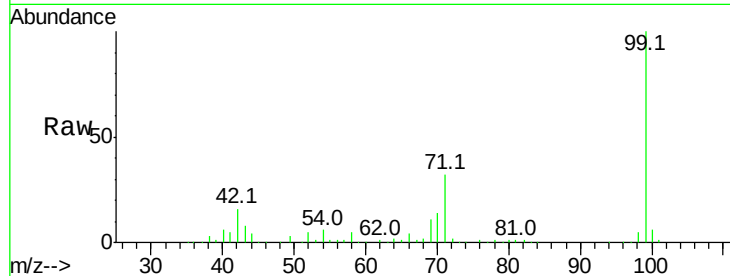
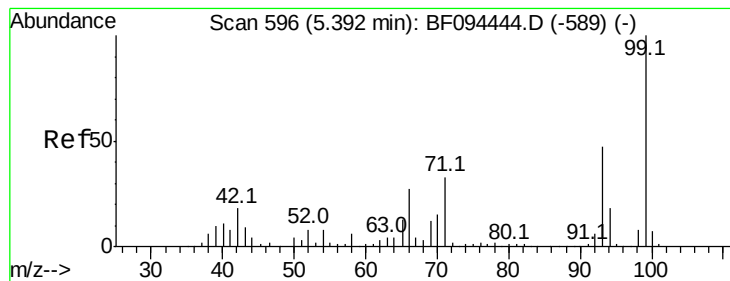
2-Fluorophenol
Concen: 50.88 ng
RT: 4.32 min Scan# 405
Delta R.T. 0.02 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion:112 Resp: 327966
Ion Ratio Lower Upper
112 100
64 55.8 46.0 69.0
63 26.7 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: 51.17 ng

RT: 5.40 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

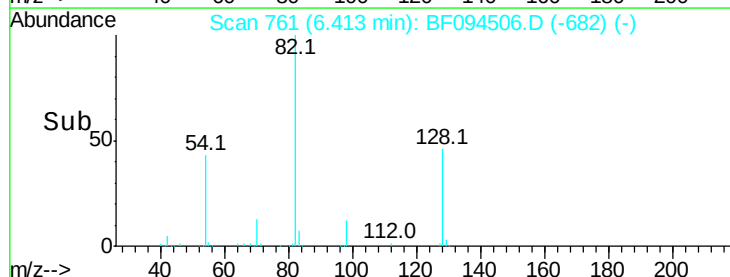
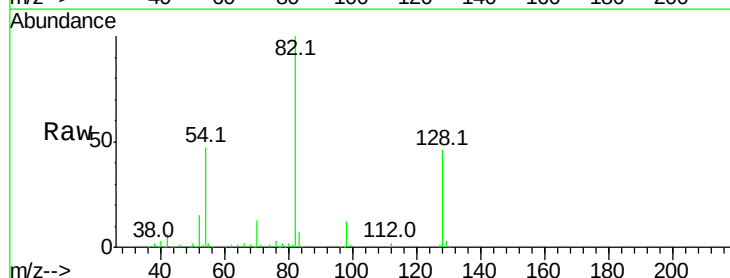
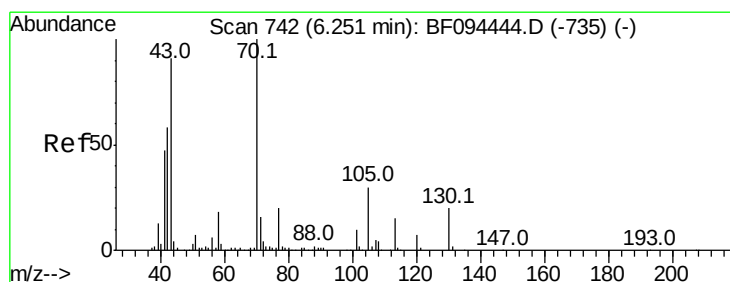
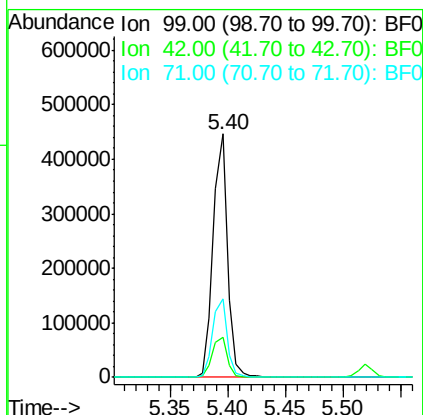
Tot Ion: 99 Resp: 388850

Ion Ratio Lower Upper

99 100

42 16.2 13.5 20.3

71 32.0 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 5.60 ng

RT: 6.41 min Scan# 761

Delta R.T. 0.16 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Tgt Ion: 70 Resp: 28200

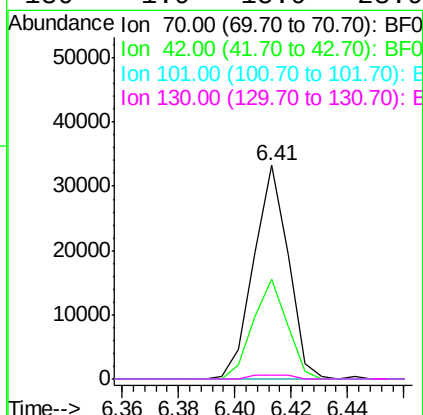
Ion Ratio Lower Upper

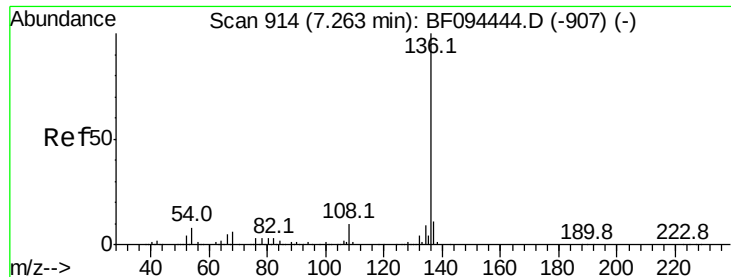
70 100

42 46.5 47.2 70.8#

101 0.0 7.2 10.8#

130 1.9 15.9 23.9#

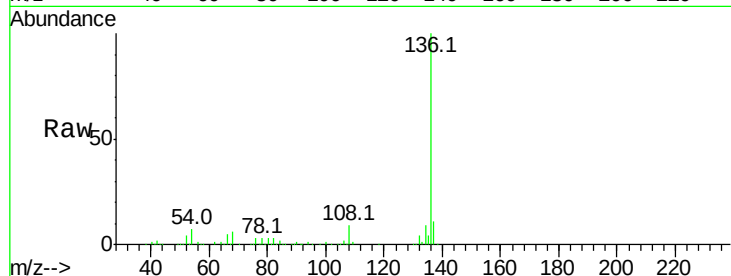




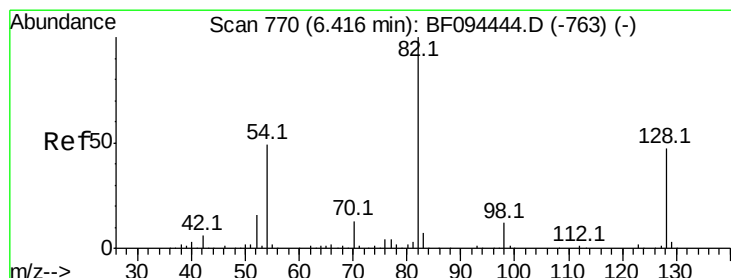
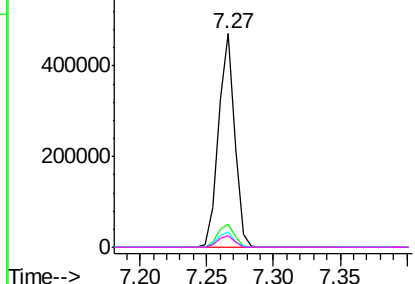
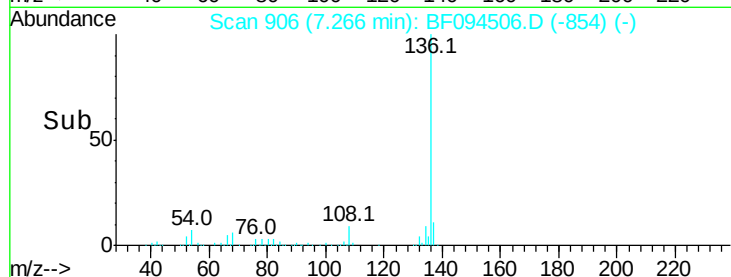
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.27 min Scan# 906
Delta R.T. 0.00 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	404542
Ion Ratio	Lower	Upper
136 100		
137 10.6	8.5	12.7
54 7.0	4.9	7.3
68 5.5	4.1	6.1

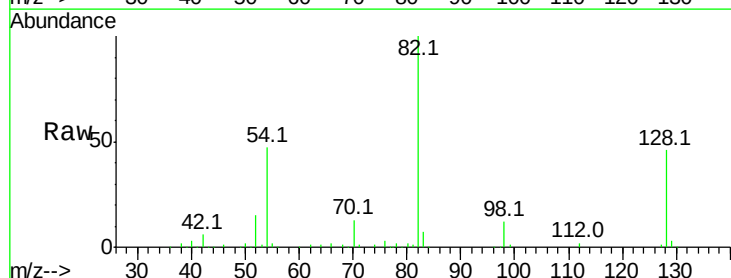


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

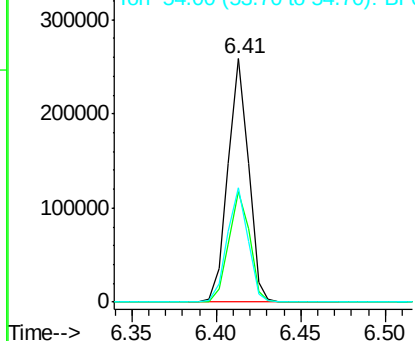
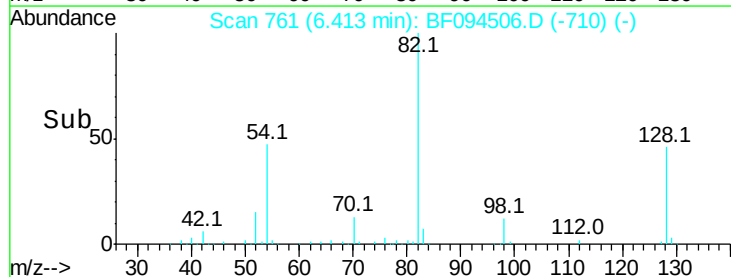


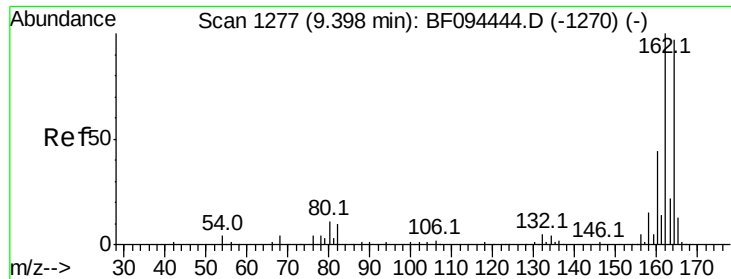
#23
Nitrobenzene-d5
Concen: 33.30 ng
RT: 6.41 min Scan# 761
Delta R.T. -0.00 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion: 82	Resp:	218187
Ion Ratio	Lower	Upper
82 100		
128 45.6	34.0	51.0
54 47.0	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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.40 min Scan# 1269

Delta R.T. 0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

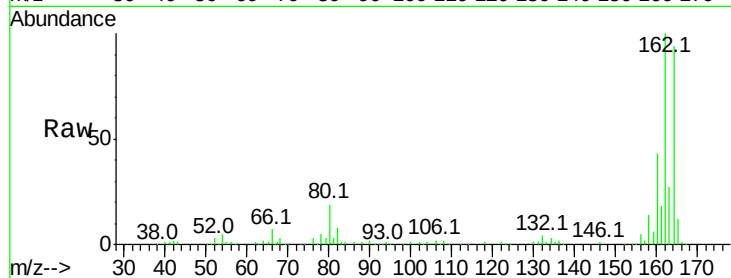
Tot Ion:164 Resp: 140816

Ion Ratio Lower Upper

164 100

162 106.0 82.6 123.8

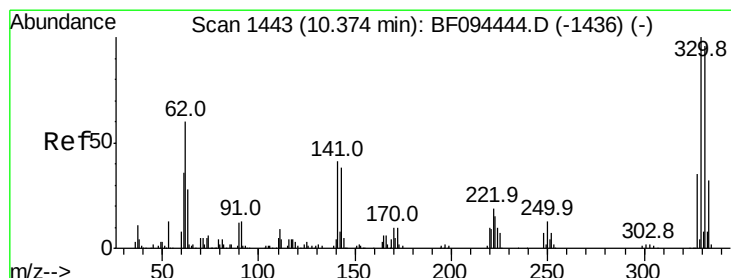
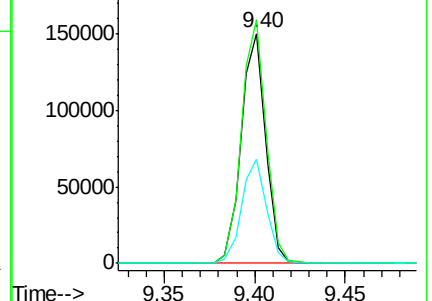
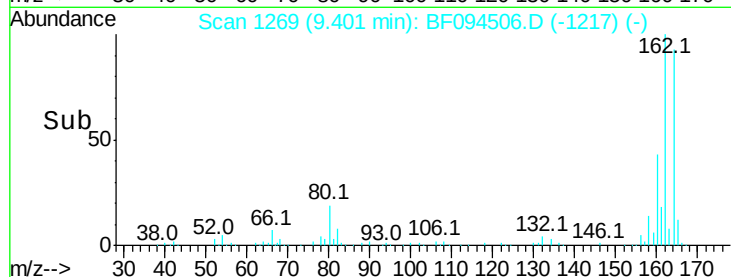
160 45.4 36.2 54.2



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: 52.32 ng

RT: 10.37 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

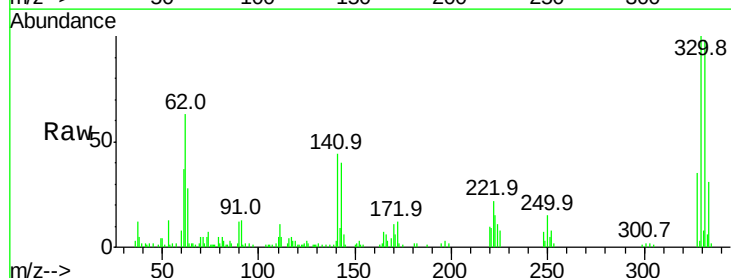
Tgt Ion:330 Resp: 57631

Ion Ratio Lower Upper

330 100

332 96.0 76.6 115.0

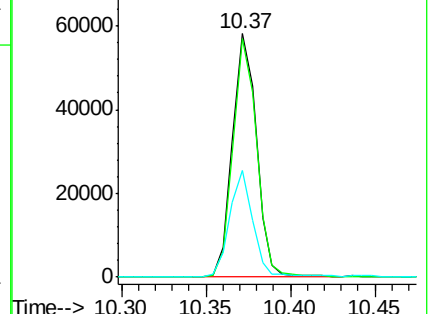
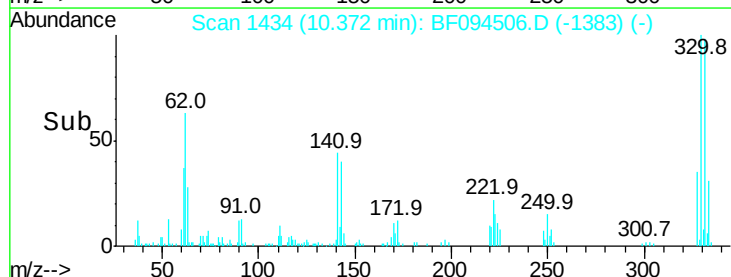
141 42.3 31.4 47.2

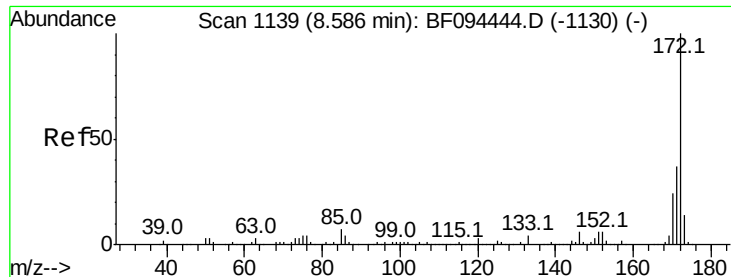


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

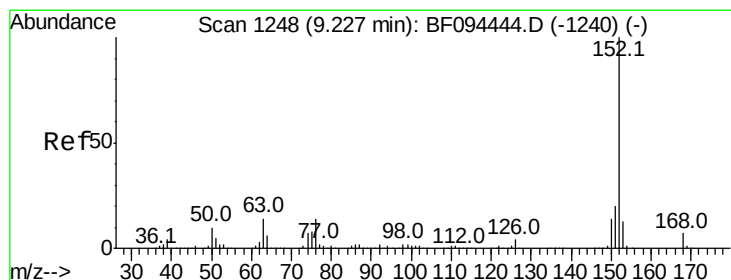
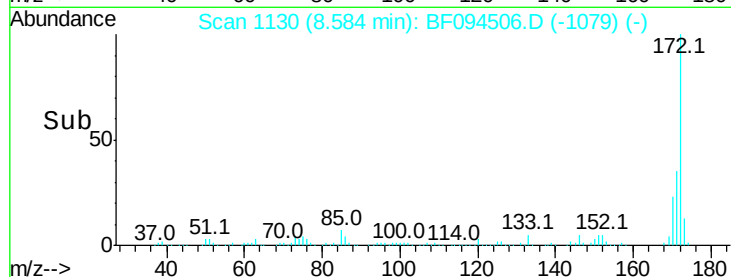
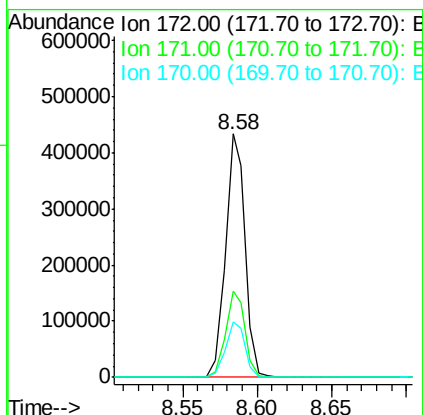
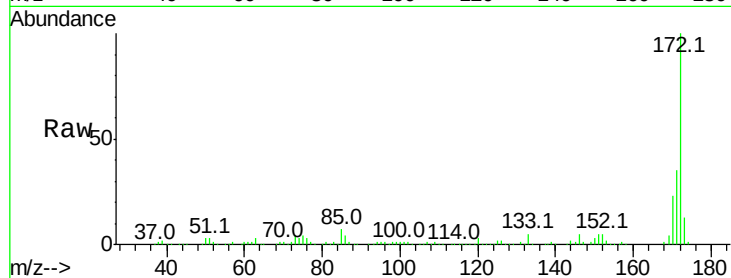




#44
 2-Fluorobiphenyl
 Concen: 41.96 ng
 RT: 8.58 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: BF094506.D
 Acq: 19 Apr 2017 00:23

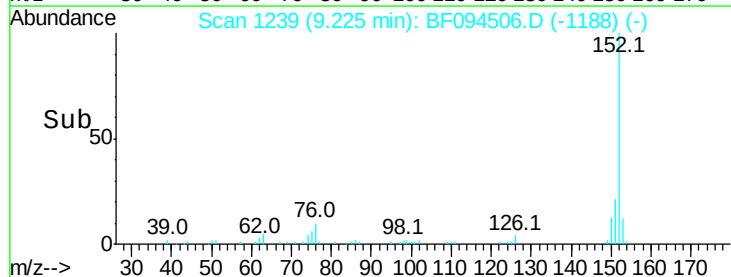
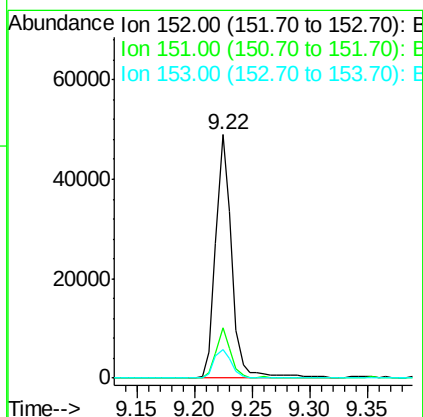
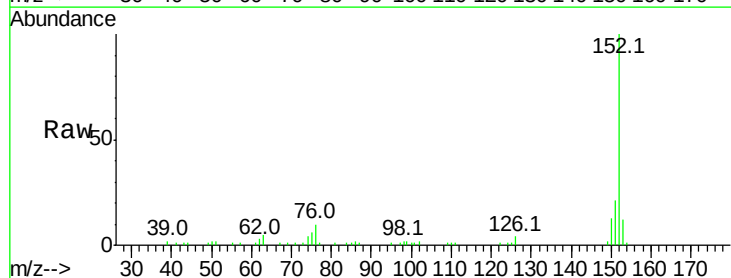
Instrument :
 BNA_F
 ClientSampled :

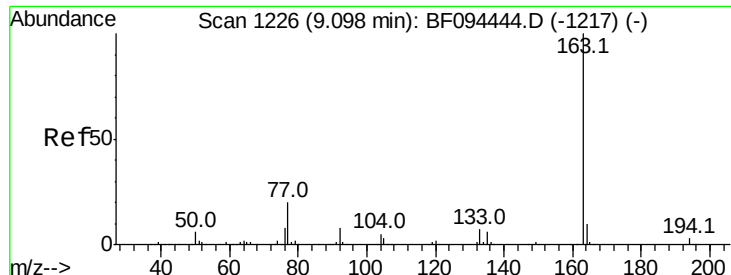
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	22.8	19.8	29.8



#48
 Acenaphthylene
 Concen: 3.35 ng
 RT: 9.22 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: BF094506.D
 Acq: 19 Apr 2017 00:23

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.8	25.2
153	11.7	10.8	16.2

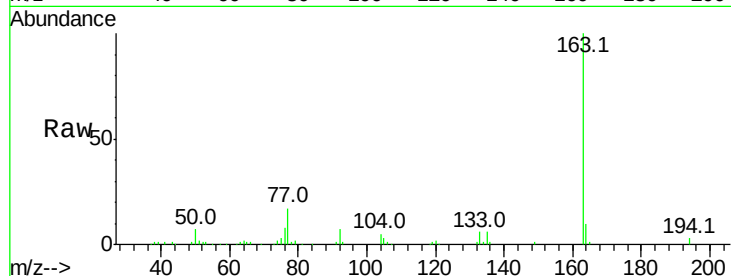




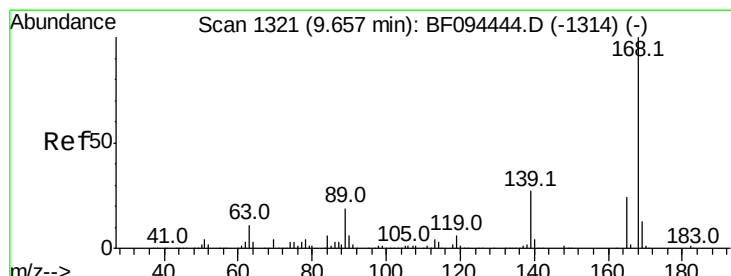
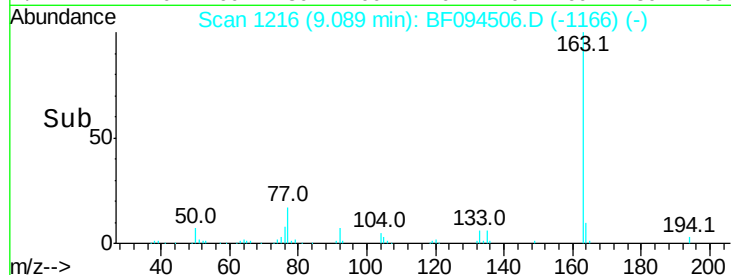
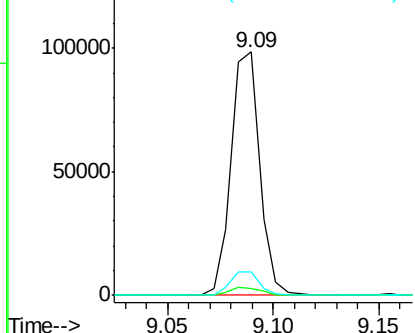
#49
Dimethylphthalate
Concen: 8.78 ng
RT: 9.09 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 92121
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 9.6 8.4 12.6

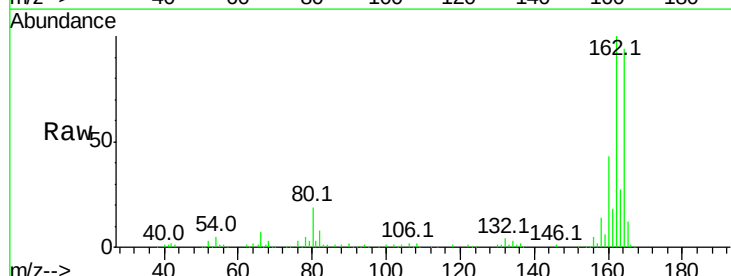


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

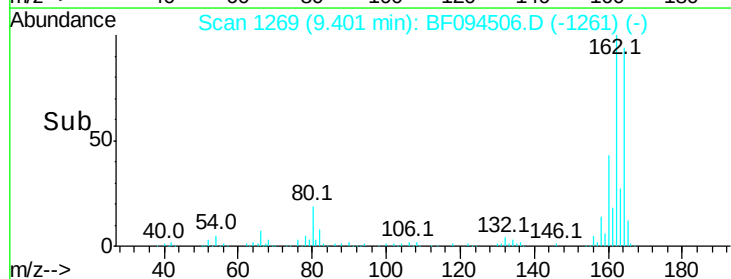
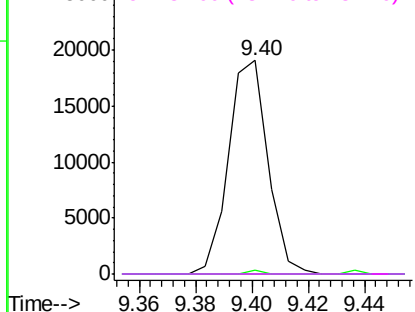


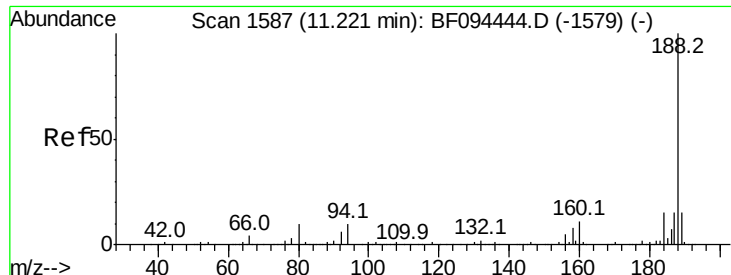
#56
2,4-Dinitrotoluene
Concen: 6.39 ng
RT: 9.40 min Scan# 1269
Delta R.T. -0.26 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion:165 Resp: 18479
Ion Ratio Lower Upper
165 100
63 1.8 25.4 38.0#
89 0.0 46.4 69.6#
182 0.0 1.8 2.6#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

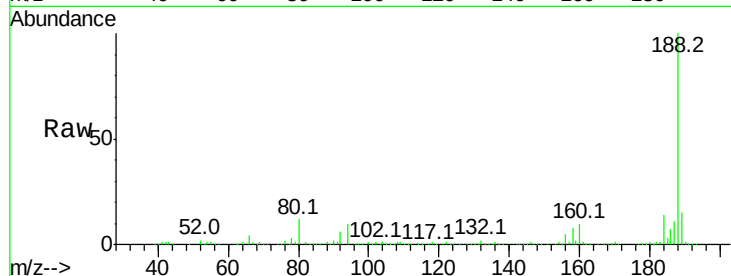




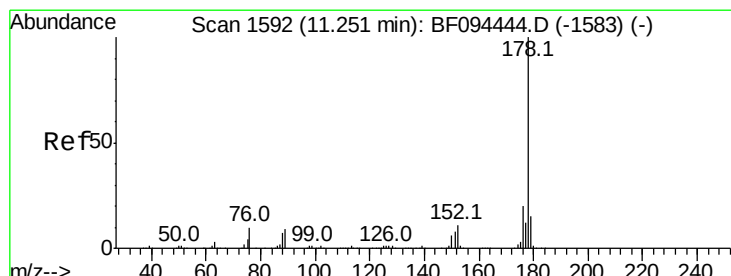
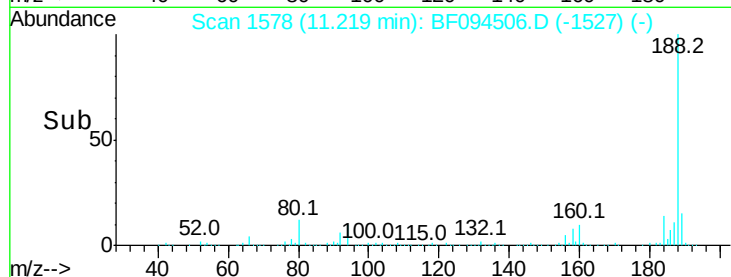
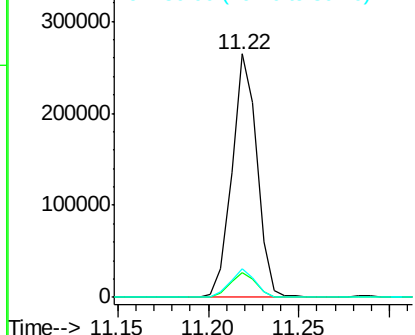
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 1578
Delta R.T. -0.00 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 254022
Ion Ratio Lower Upper
188 100
94 10.2 9.4 14.2
80 11.8 10.2 15.2

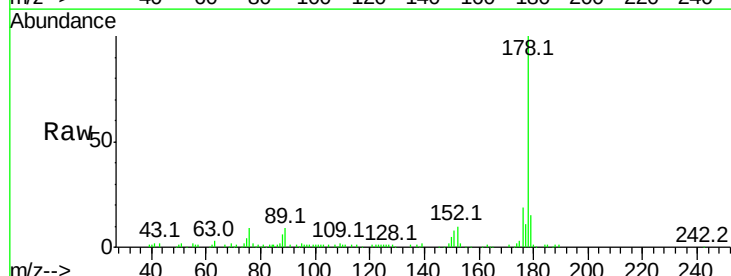


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

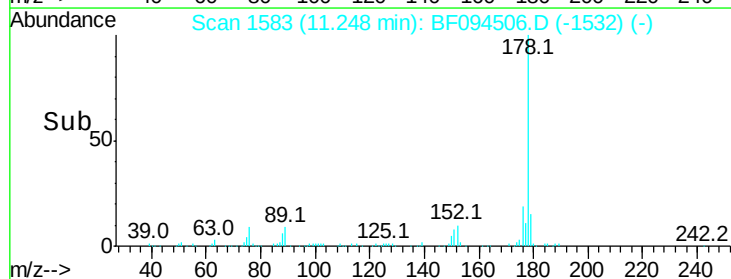
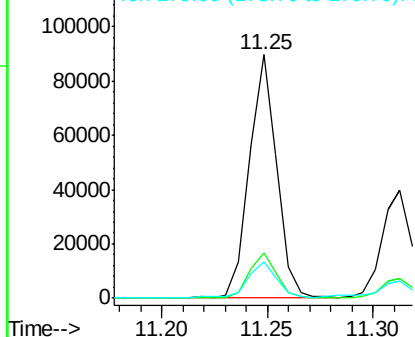


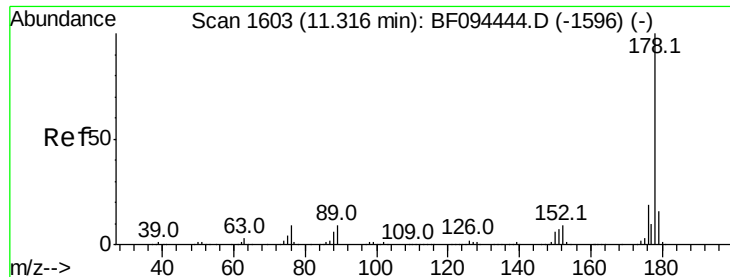
#70
Phenanthrene
Concen: 5.65 ng
RT: 11.25 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion:178 Resp: 80801
Ion Ratio Lower Upper
178 100
176 18.7 16.2 24.4
179 15.1 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

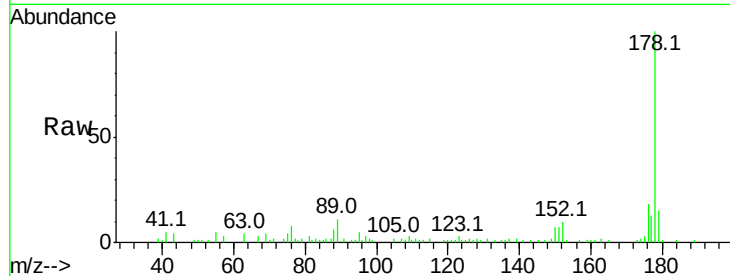




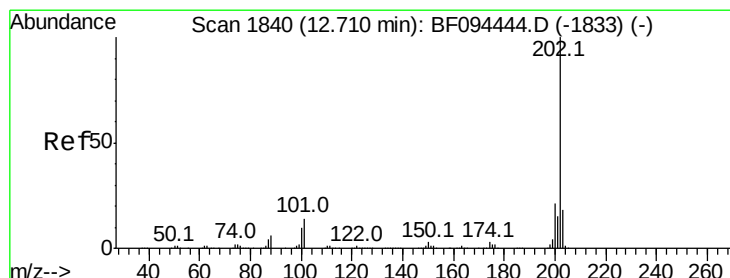
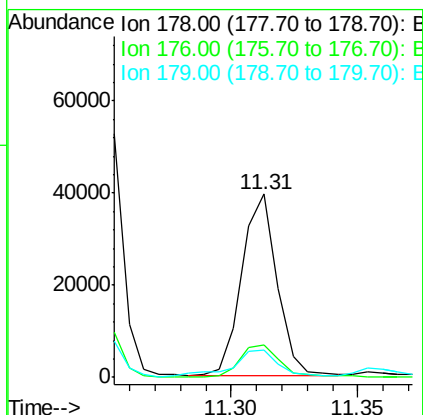
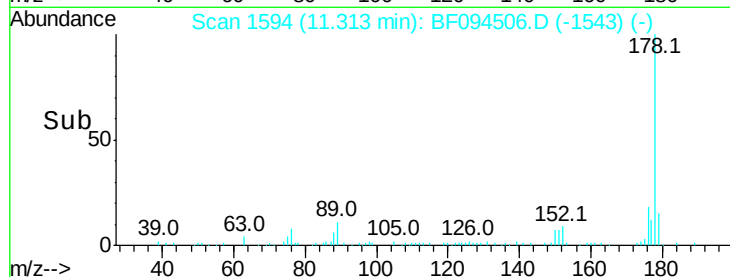
#71
 Anthracene
 Concen: 2.60 ng
 RT: 11.31 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: BF094506.D
 Acq: 19 Apr 2017 00:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 38421
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.8 23.8
 179 15.3 12.7 19.1

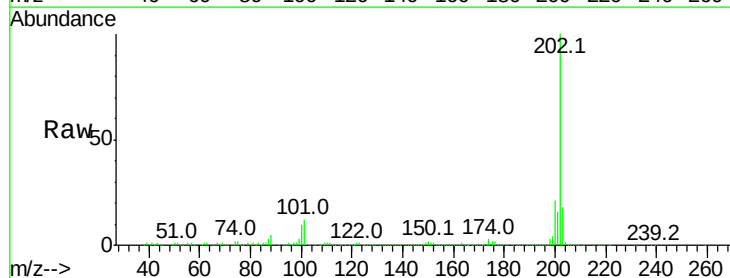


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

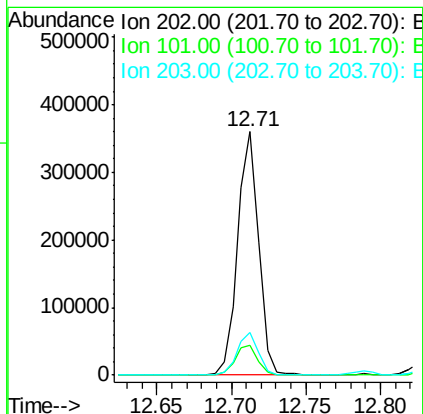
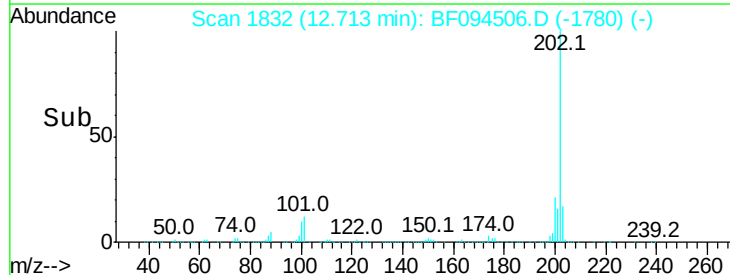


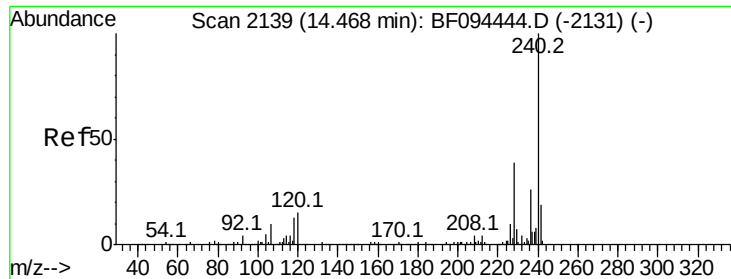
#74
 Fluoranthene
 Concen: 23.94 ng
 RT: 12.71 min Scan# 1832
 Delta R.T. 0.00 min
 Lab File: BF094506.D
 Acq: 19 Apr 2017 00:23

Tgt Ion:202 Resp: 354883
 Ion Ratio Lower Upper
 202 100
 101 12.4 0.0 33.2
 203 17.5 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: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

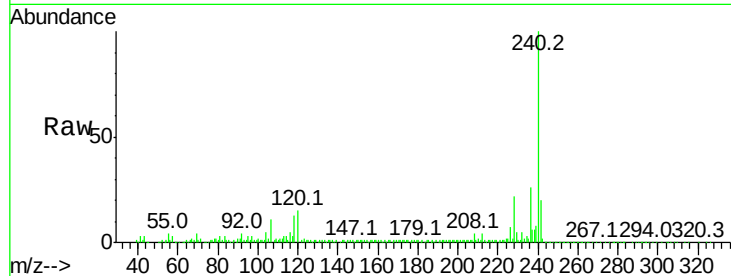
Tot Ion:240 Resp: 239660

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

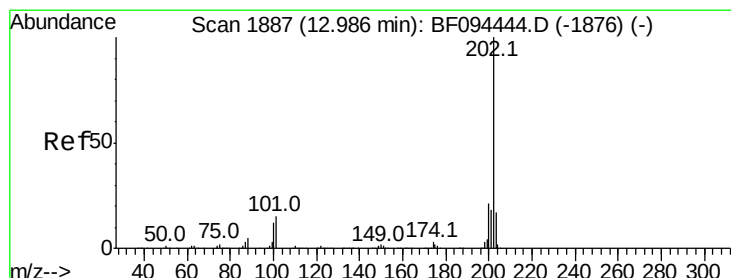
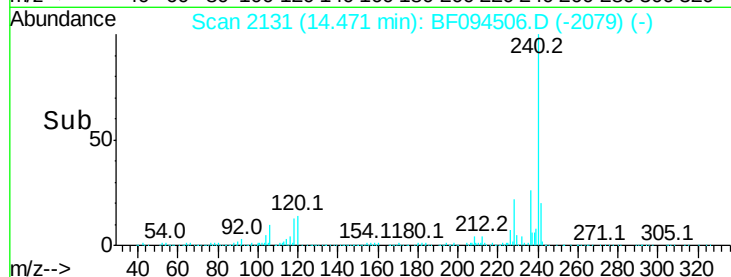
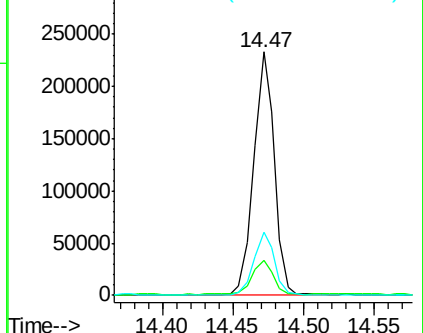
236 26.1 20.5 30.7



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: 21.44 ng

RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

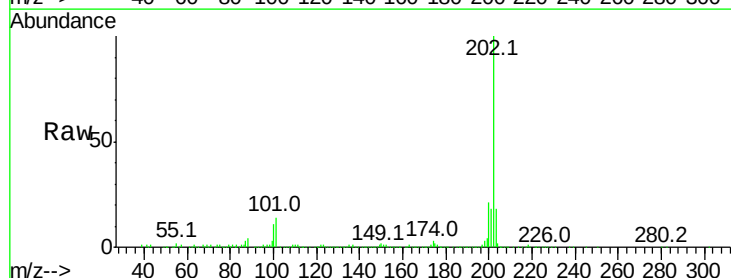
Tgt Ion:202 Resp: 358941

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

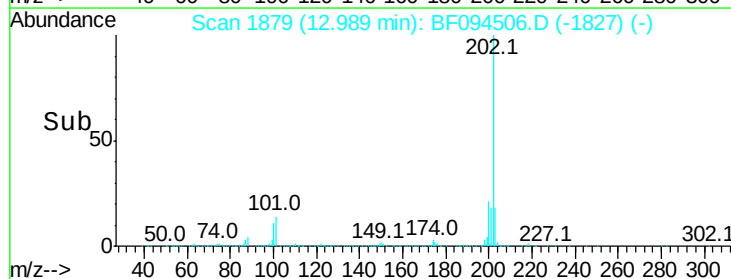
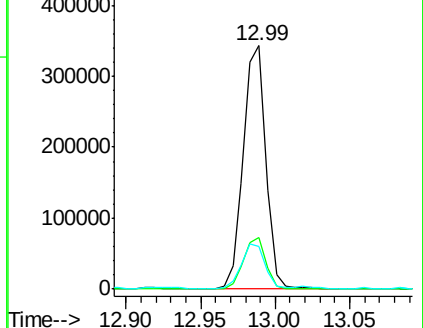
203 17.7 14.4 21.6

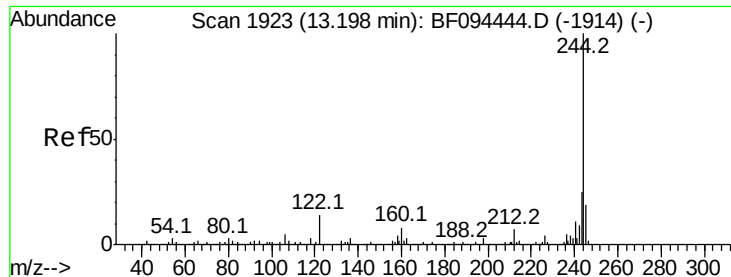


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 32.94 ng

RT: 13.19 min Scan# 1914

Delta R.T. -0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

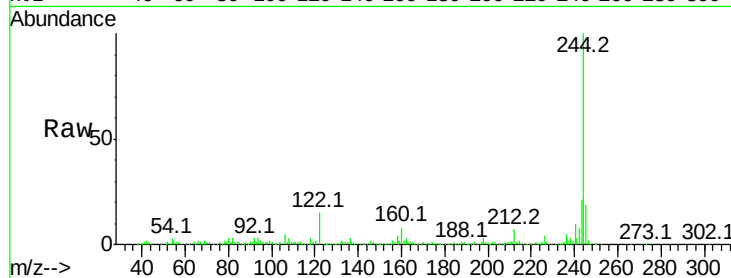
Tot Ion:244 Resp: 295312

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

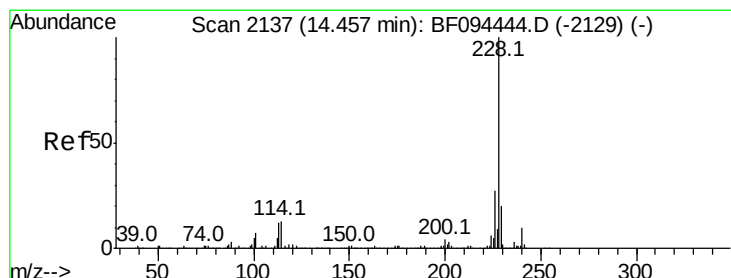
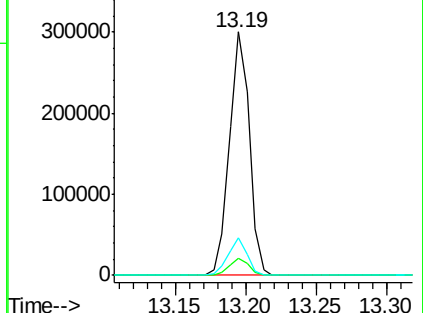
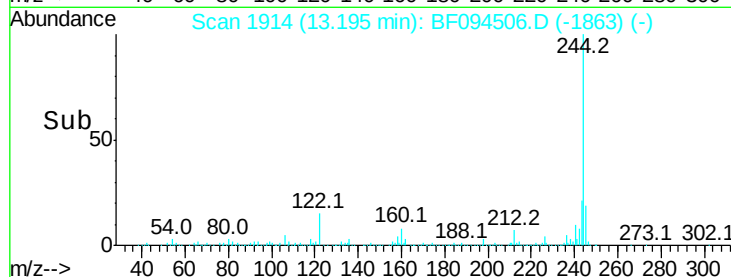
122 15.2 10.3 15.5



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: 14.01 ng

RT: 14.46 min Scan# 2129

Delta R.T. 0.00 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

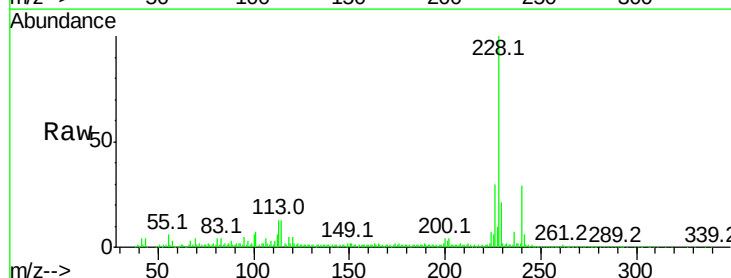
Tgt Ion:228 Resp: 195147

Ion Ratio Lower Upper

228 100

226 30.1 22.6 33.8

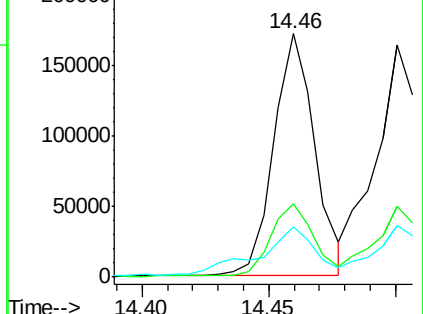
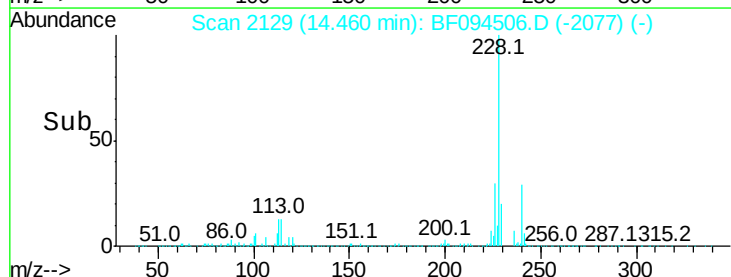
229 20.8 16.3 24.5

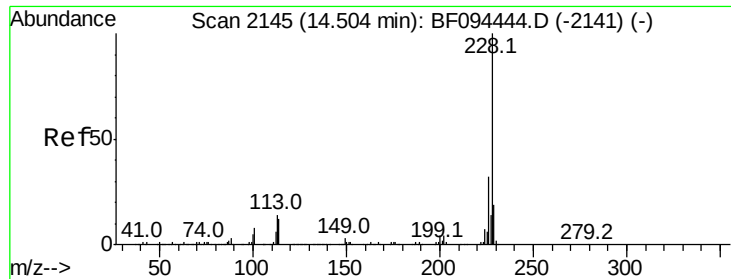


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

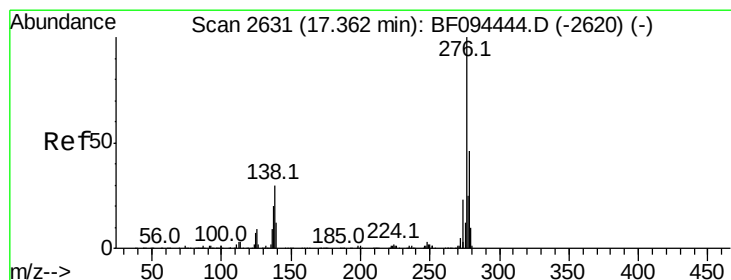
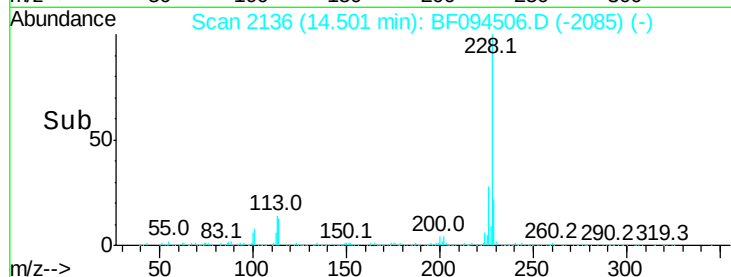
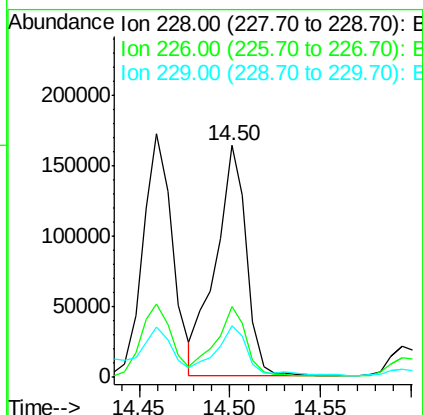
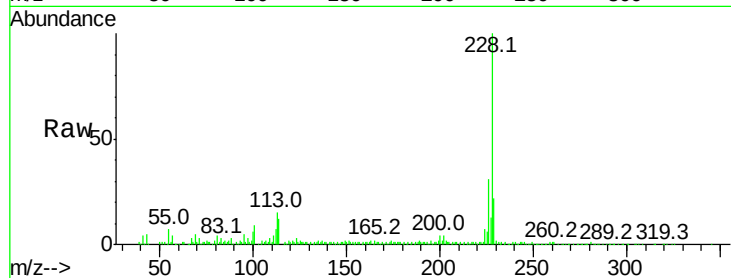




#82
Chrysene
Concen: 15.23 ng
RT: 14.50 min Scan# 2136
Delta R.T. -0.00 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

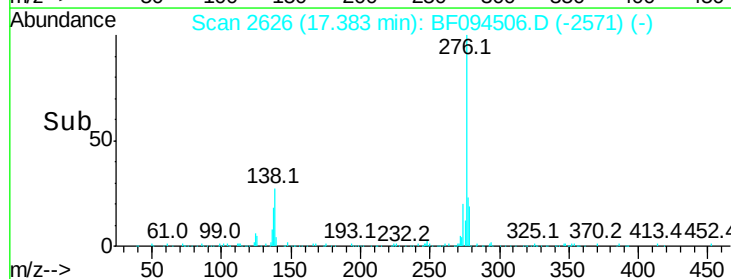
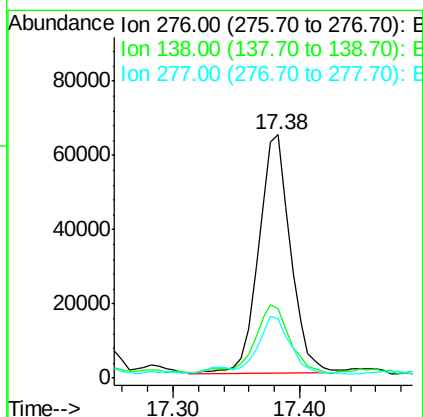
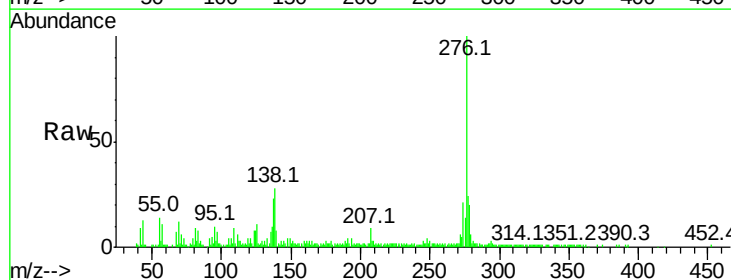
Instrument :
BNA_F
ClientSampleId :

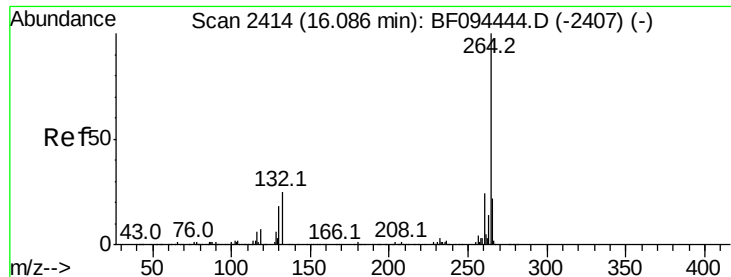
Tot Ion:228 Resp: 193933
Ion Ratio Lower Upper
228 100
226 30.5 24.9 37.3
229 22.4 15.8 23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 9.31 ng
RT: 17.38 min Scan# 2626
Delta R.T. 0.02 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion:276 Resp: 112797
Ion Ratio Lower Upper
276 100
138 32.0 27.8 41.6
277 24.1 20.2 30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.10 min Scan# 2408

Delta R.T. 0.01 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

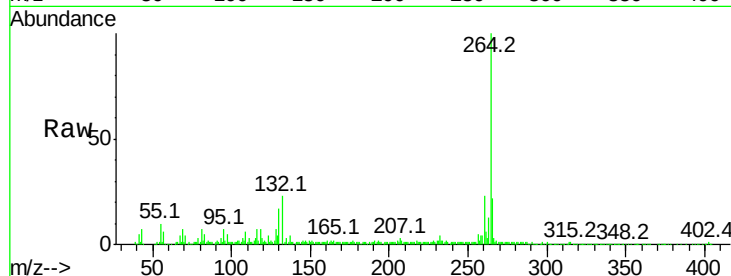
Tot Ion:264 Resp: 181425

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	22.2	17.2	25.8

264 100

260 23.3 19.5 29.3

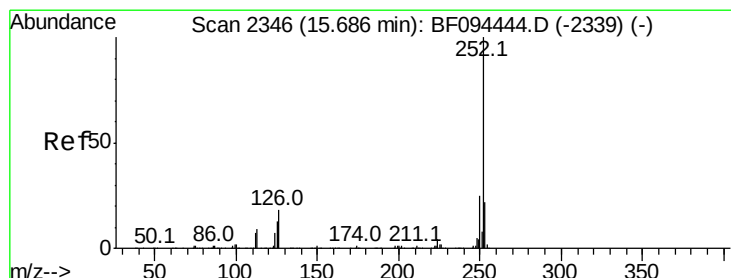
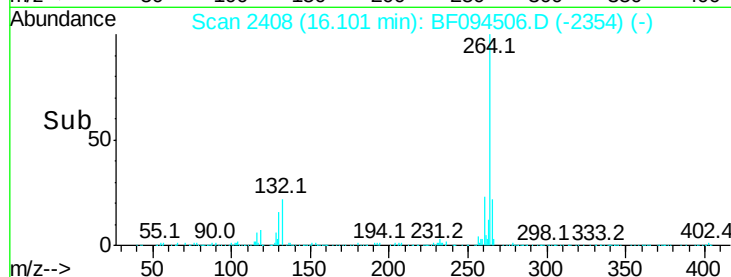
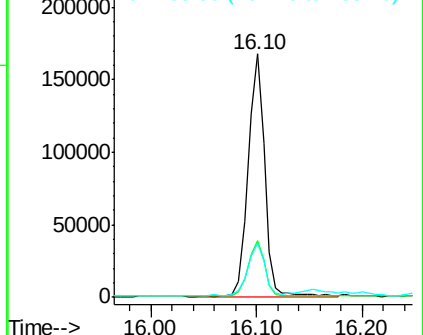
265 22.2 17.2 25.8



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: 32.57 ng

RT: 15.70 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

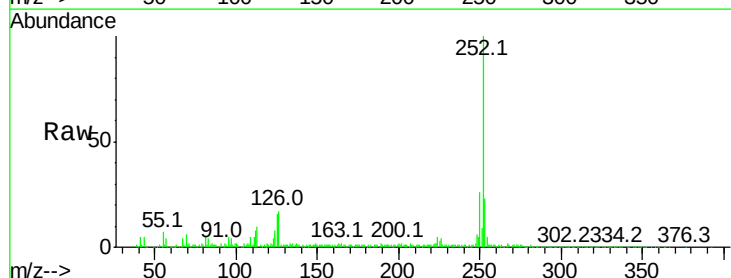
Tgt Ion:252 Resp: 361445

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	16.2	9.8	14.8

252 100

253 23.1 18.1 27.1

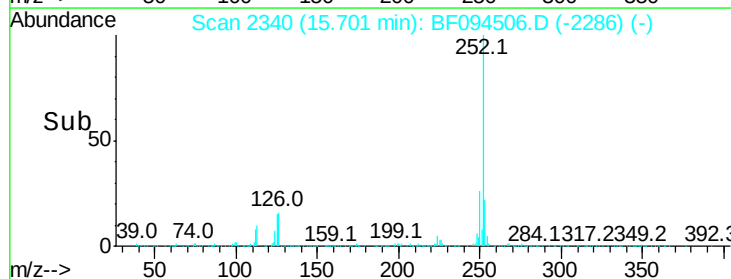
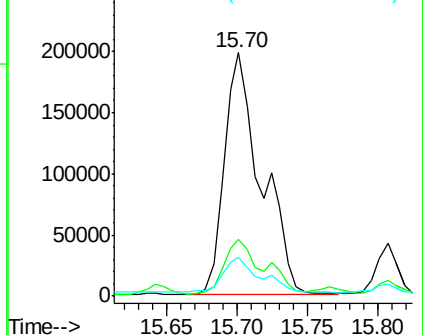
125 16.2 9.8 14.8

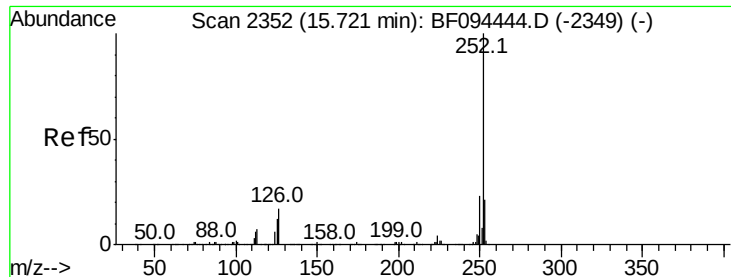


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

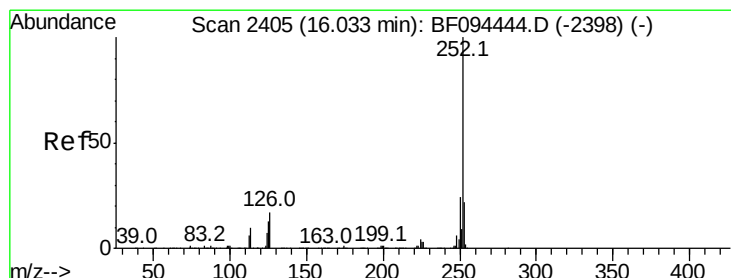
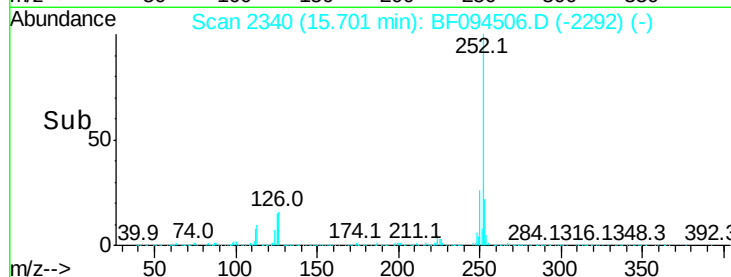
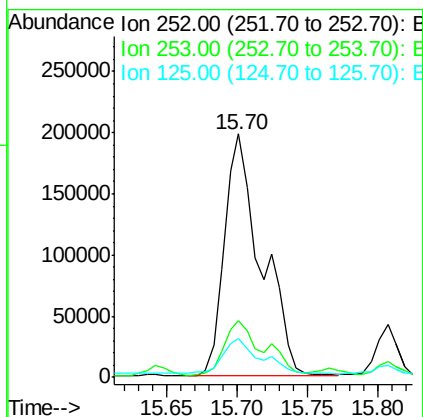
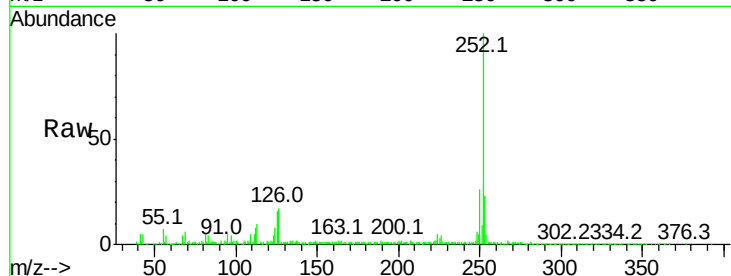




#88
Benzo(k)fluoranthene
Concen: 34.41 ng
RT: 15.70 min Scan# 2340
Delta R.T. -0.02 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

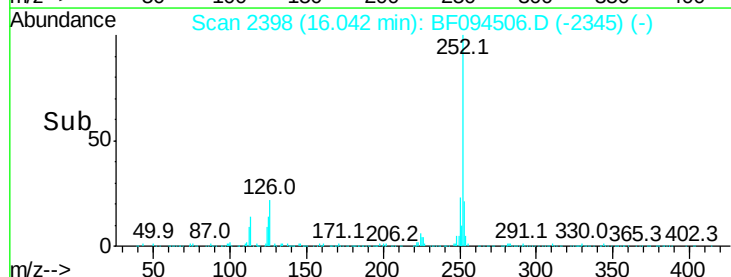
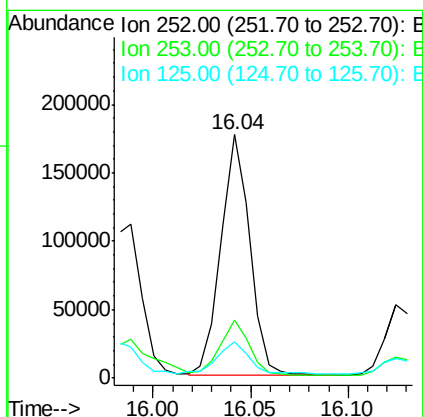
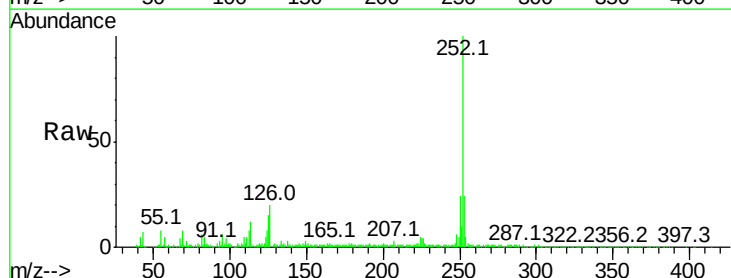
Instrument :
BNA_F
ClientSampleId :

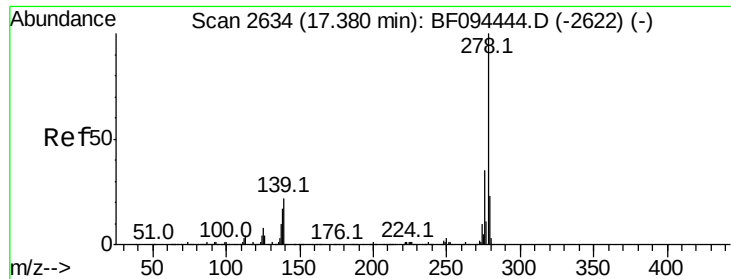
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	16.2	13.1	19.7



#89
Benzo(a)pyrene
Concen: 17.61 ng
RT: 16.04 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BF094506.D
Acq: 19 Apr 2017 00:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	14.9	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.68 ng

RT: 17.39 min Scan# 2627

Delta R.T. 0.01 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

Instrument :

BNA_F

ClientSampleId :

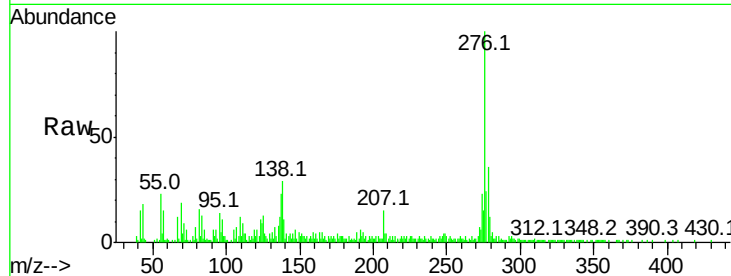
Tot Ion:278 Resp: 31572

Ion Ratio Lower Upper

278 100

139 30.9 16.6 24.8#

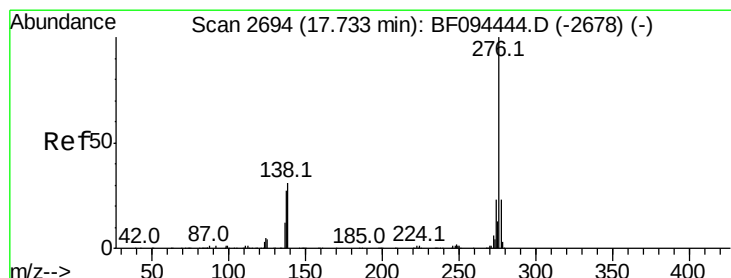
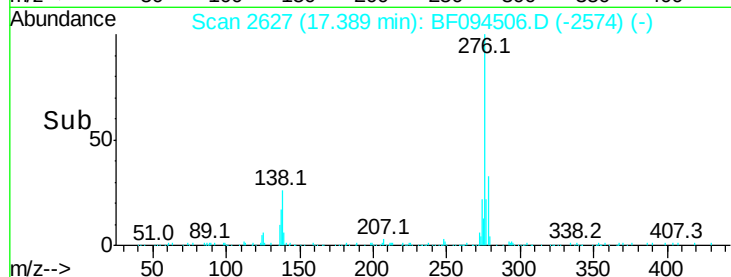
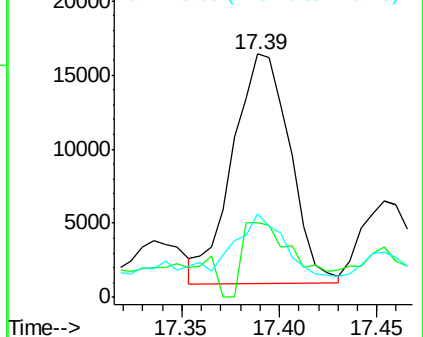
279 34.5 19.3 28.9#



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(g,h,i)perylene

Concen: 16.09 ng

RT: 17.76 min Scan# 2690

Delta R.T. 0.03 min

Lab File: BF094506.D

Acq: 19 Apr 2017 00:23

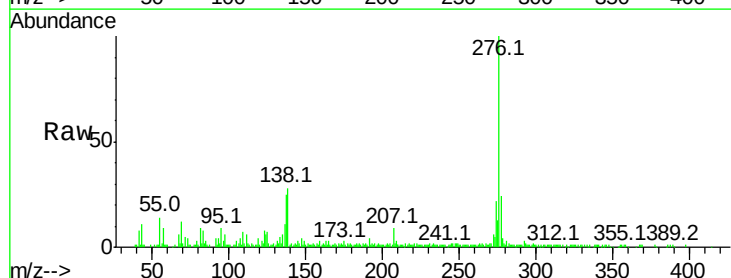
Tgt Ion:276 Resp: 140451

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 27.8 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

