

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\
 Data File : BF094637.D
 Acq On : 26 Apr 2017 6:52
 Operator : SJ/MA
 Sample : I2824-04 10X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 26 07:33:44 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

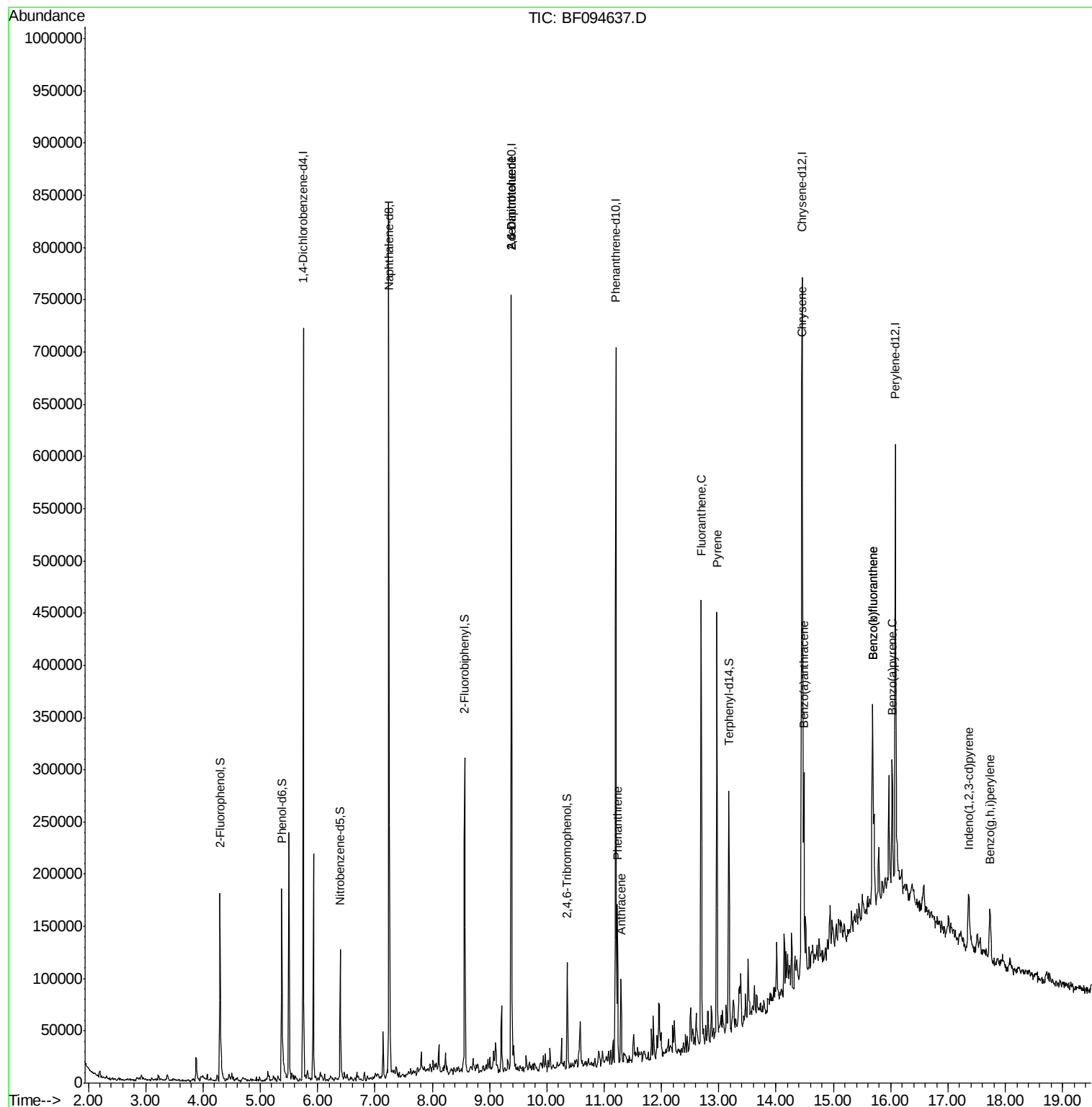
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	109354	20.00	ng	-0.01
21) Naphthalene-d8	7.24	136	425160	20.00	ng	-0.02
38) Acenaphthene-d10	9.38	164	171273	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	262357	20.00	ng	-0.02
75) Chrysene-d12	14.45	240	234535	20.00	ng	-0.01
86) Perylene-d12	16.08	264	159431	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.30	112	67916	10.30	ng	0.00
7) Phenol-d6	5.37	99	86719	11.16	ng	-0.02
23) Nitrobenzene-d5	6.40	82	46756	6.79	ng	-0.02
41) 2,4,6-Tribromophenol	10.36	330	11414	8.52	ng	-0.01
44) 2-Fluorobiphenyl	8.57	172	101465	8.72	ng	-0.02
78) Terphenyl-d14	13.18	244	67840	7.73	ng	-0.02
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.38	165	22437	7.83	ng	# 34
56) 2,4-Dinitrotoluene	9.38	165	22437	6.38	ng	# 33
70) Phenanthrene	11.23	178	58369	3.95	ng	96
71) Anthracene	11.30	178	34666	2.27	ng	99
74) Fluoranthene	12.70	202	188618	12.32	ng	99
77) Pyrene	12.97	202	169927	10.37	ng	97
80) Benzo(a)anthracene	14.48	228	85623	6.28	ng	95
82) Chrysene	14.44	228	78726	6.32	ng	95
85) Indeno(1,2,3-cd)pyrene	17.36	276	28107	2.37	ng	96
87) Benzo(b)fluoranthene	15.68	252	128558	13.18	ng	# 96
88) Benzo(k)fluoranthene	15.68	252	128558	13.93	ng	99
89) Benzo(a)pyrene	16.02	252	46141	5.09	ng	# 94
91) Benzo(a,h,i)perylene	17.73	276	31180	4.06	ng	95

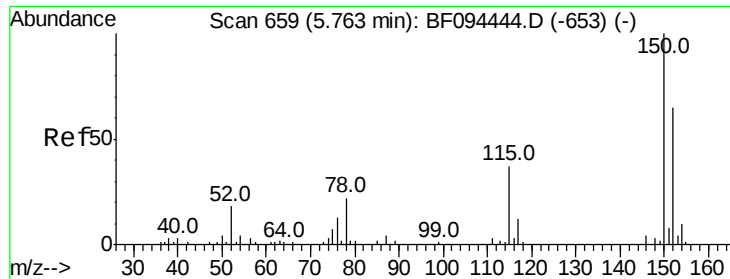
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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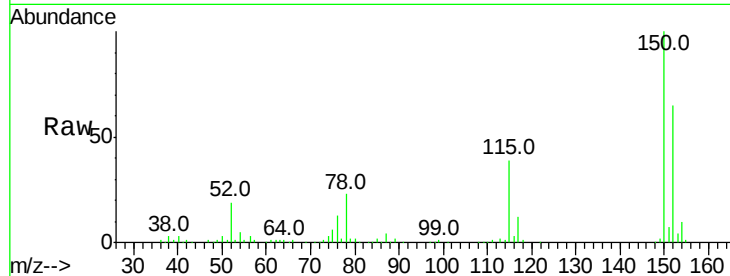


#1

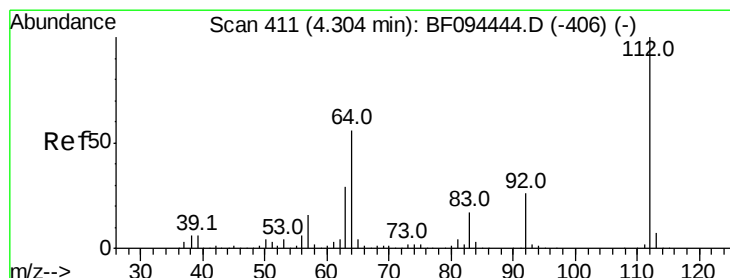
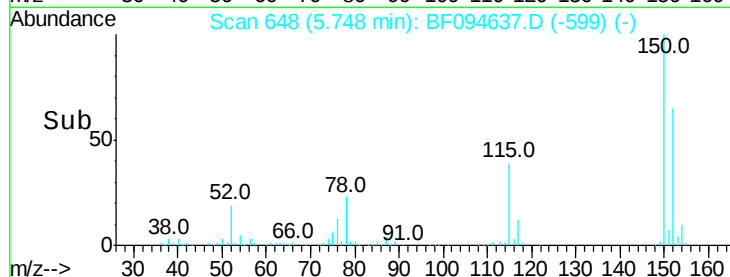
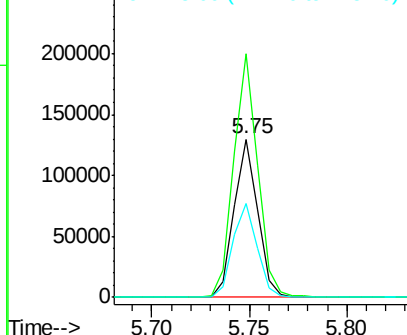
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.75 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 109354
Ion Ratio Lower Upper
152 100
150 154.0 126.2 189.2
115 59.3 52.2 78.2



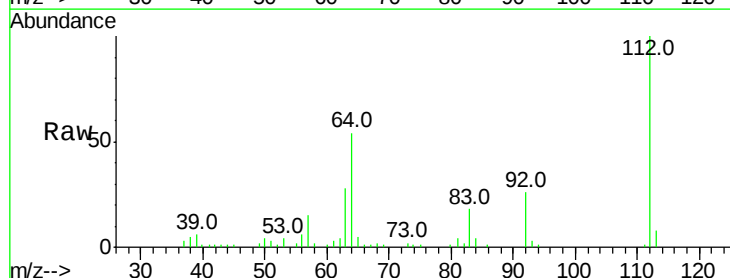
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



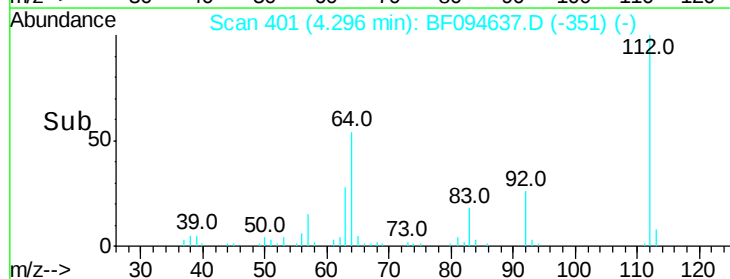
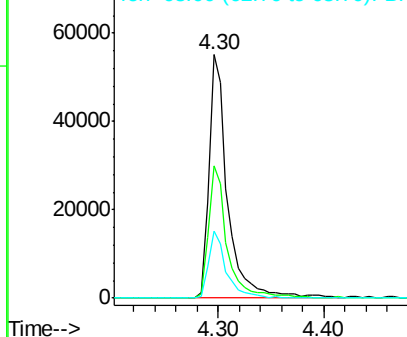
#5

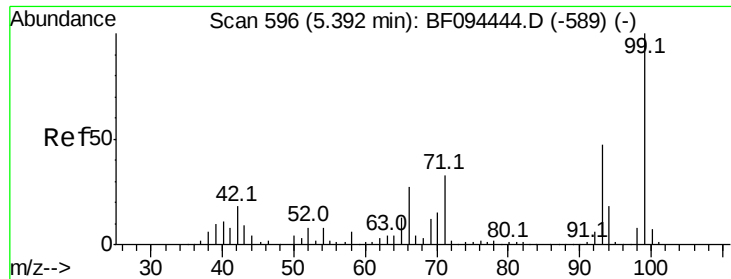
2-Fluorophenol
Concen: 10.30 ng
RT: 4.30 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Tgt Ion:112 Resp: 67916
Ion Ratio Lower Upper
112 100
64 54.2 46.0 69.0
63 27.7 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: 11.16 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094637.D

Acq: 26 Apr 2017 6:52

Instrument :

BNA_F

ClientSampleId :

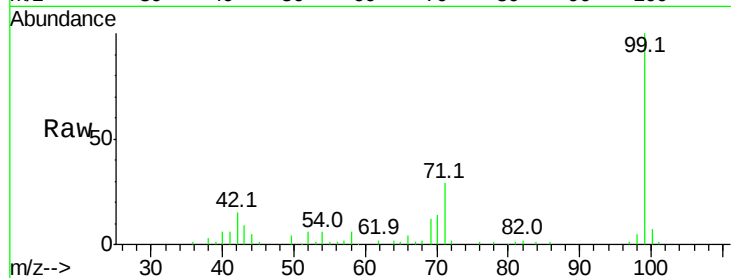
Tot Ion: 99 Resp: 86719

Ion Ratio Lower Upper

99 100

42 15.0 13.5 20.3

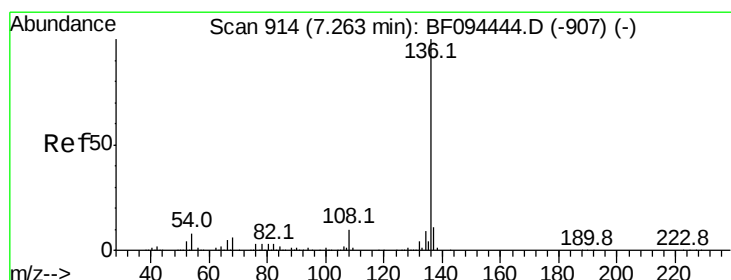
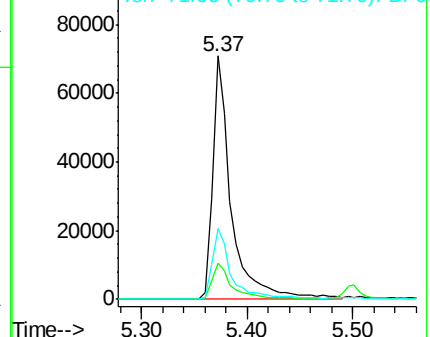
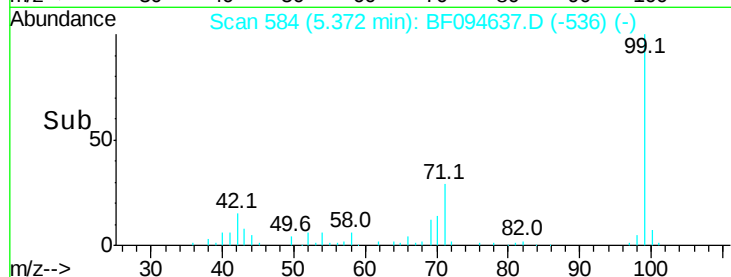
71 29.0 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.24 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF094637.D

Acq: 26 Apr 2017 6:52

Tgt Ion: 136 Resp: 425160

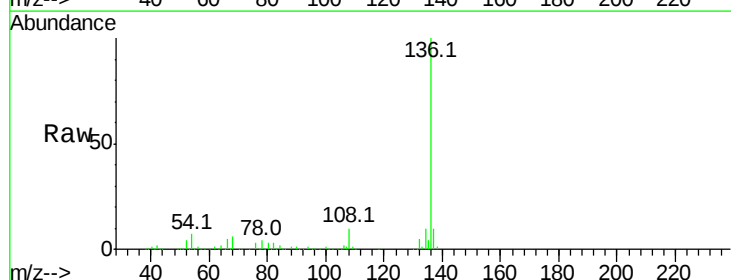
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 7.3 4.9 7.3

68 5.7 4.1 6.1

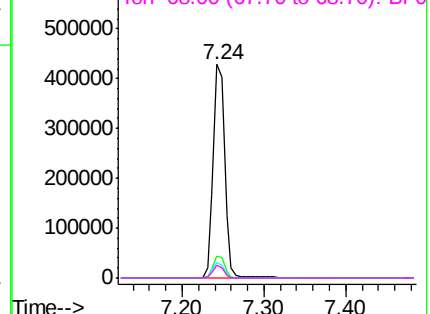
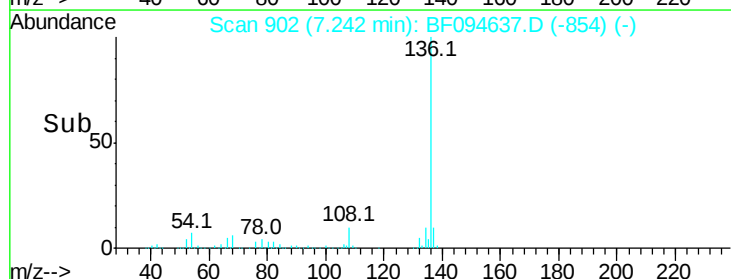


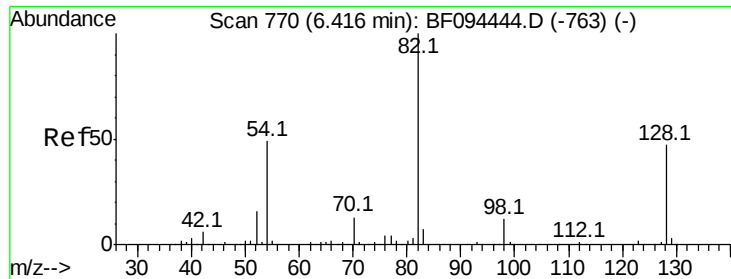
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

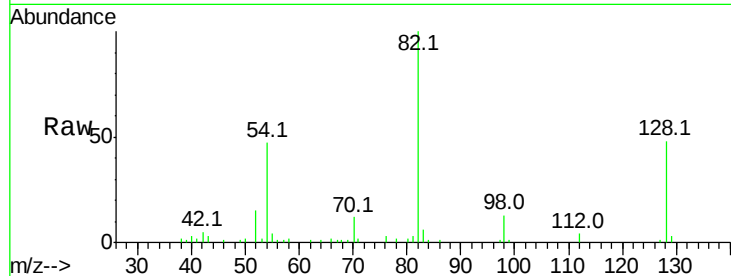




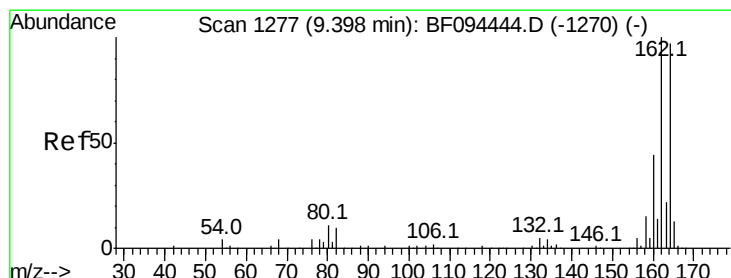
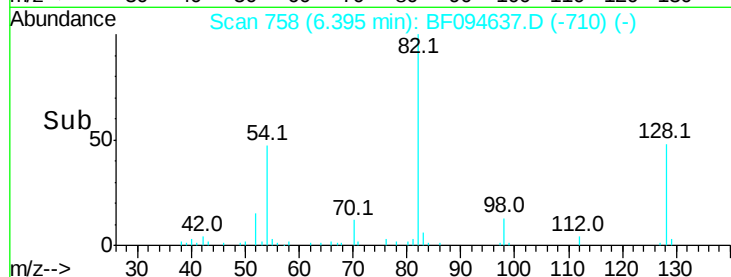
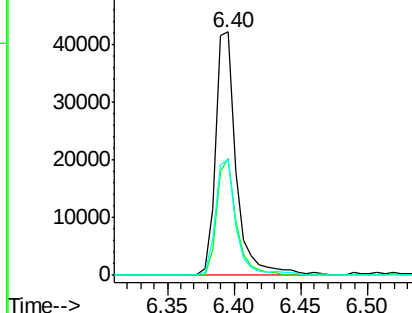
#23
 Nitrobenzene-d5
 Concen: 6.79 ng
 RT: 6.40 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion	82	Resp	46756
Ion Ratio	Lower	Upper	
82	100		
128	47.8	34.0	51.0
54	47.3	42.2	63.2

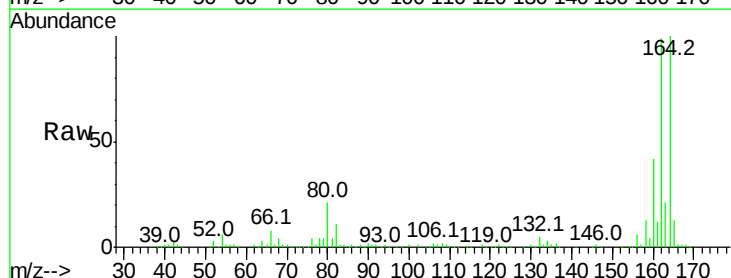


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

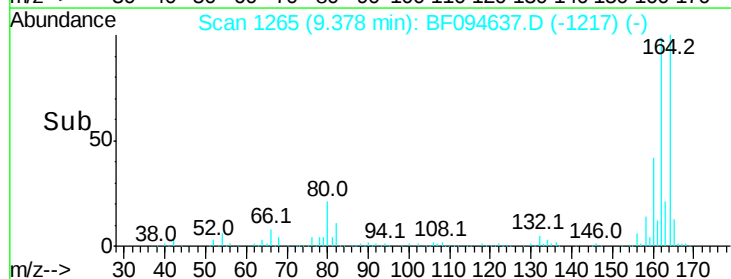
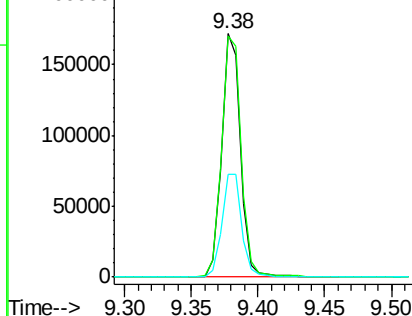


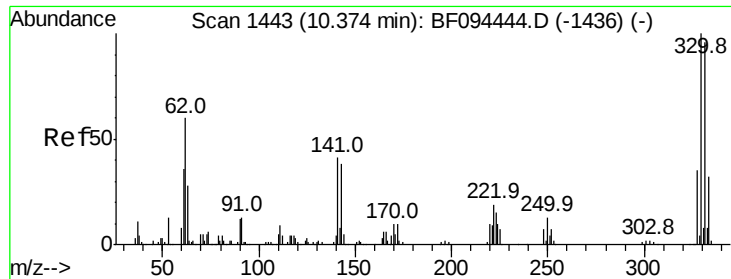
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion	164	Resp	171273
Ion Ratio	Lower	Upper	
164	100		
162	98.8	82.6	123.8
160	42.1	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

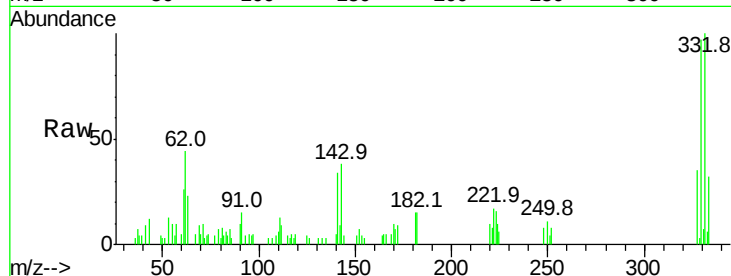




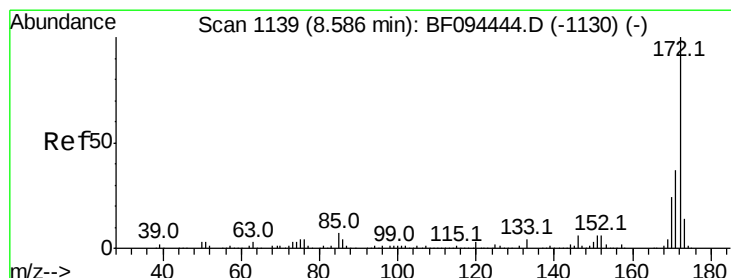
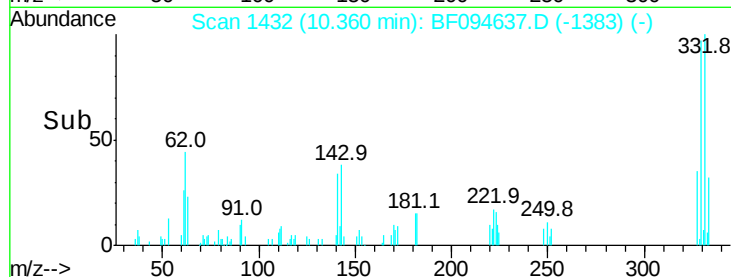
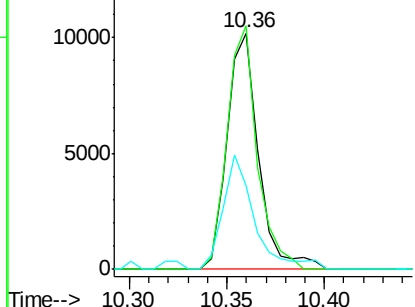
#41
 2,4,6-Tribromophenol
 Concen: 8.52 ng
 RT: 10.36 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.6	115.0
141	48.5	31.4	47.2#

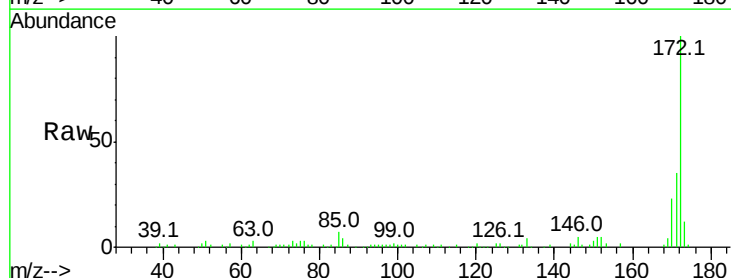


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

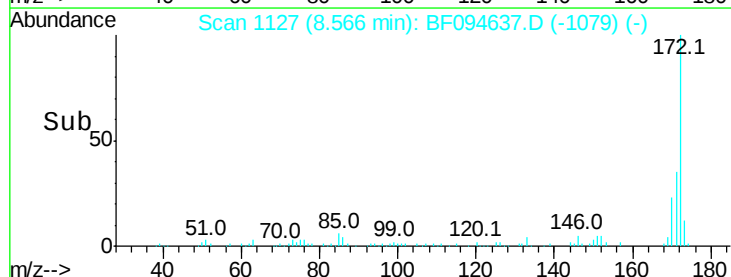
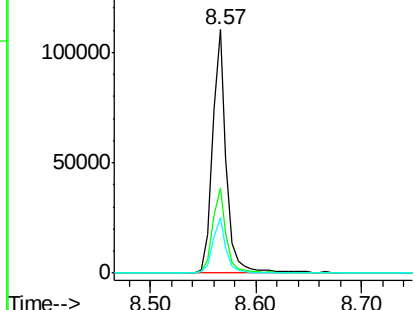


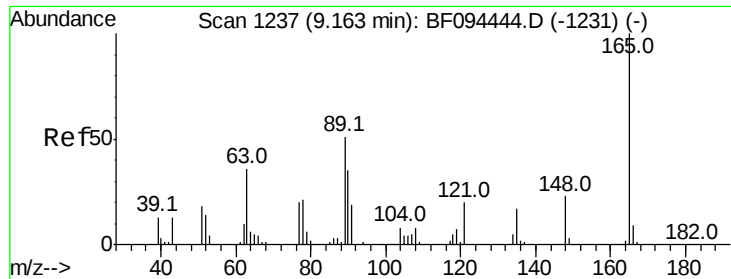
#44
 2-Fluorobiphenyl
 Concen: 8.72 ng
 RT: 8.57 min Scan# 1127
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.6	44.4
170	22.9	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

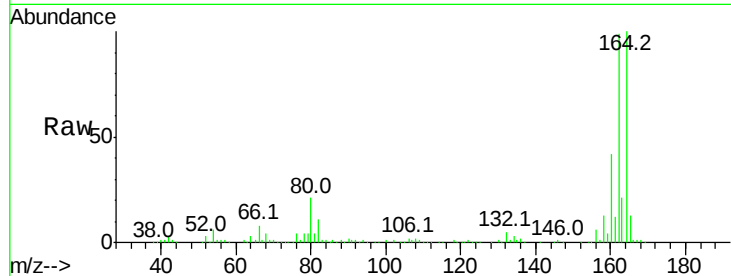




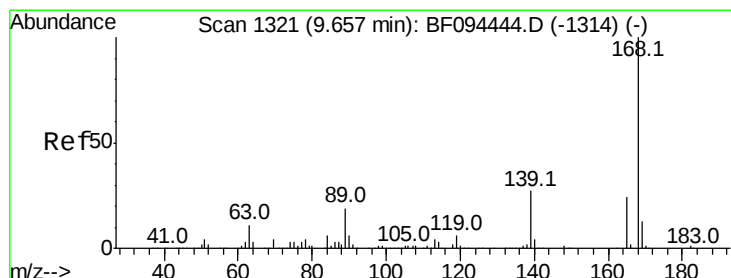
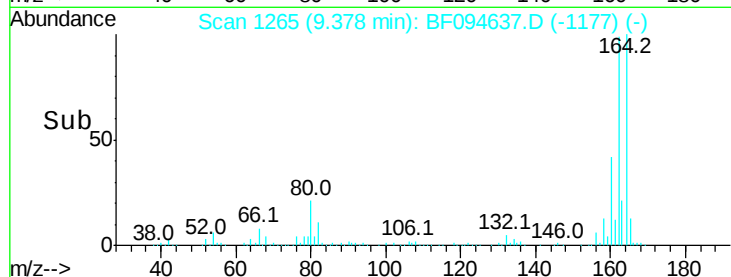
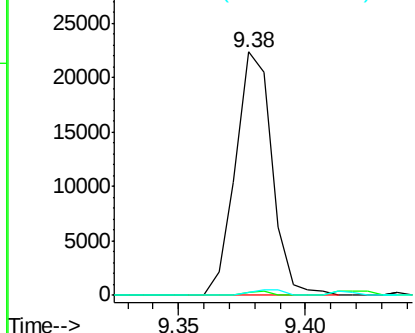
#50
 2,6-Dinitrotoluene
 Concen: 7.83 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. 0.21 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	34.3	51.5#
89	1.4	37.1	55.7#



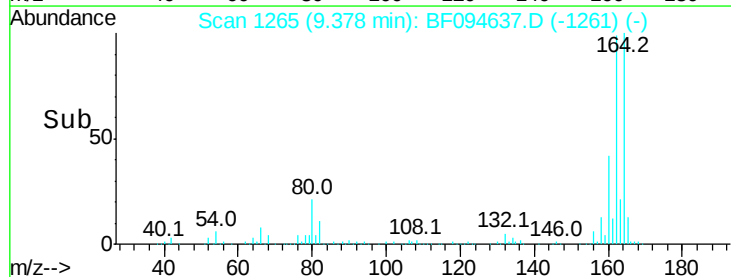
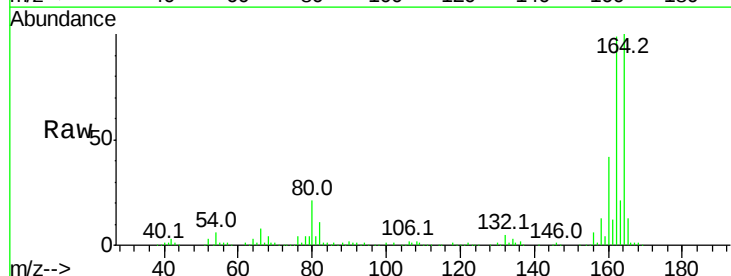
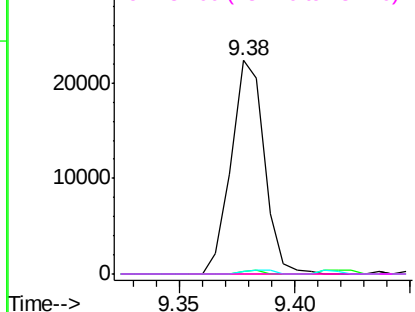
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

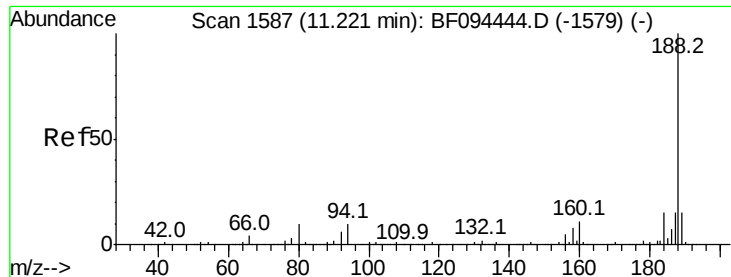


#56
 2,4-Dinitrotoluene
 Concen: 6.38 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. -0.28 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	25.4	38.0#
89	1.4	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

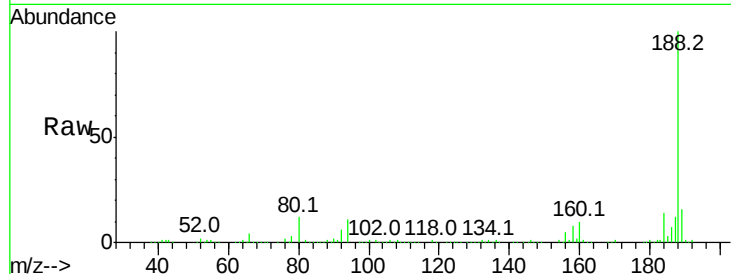




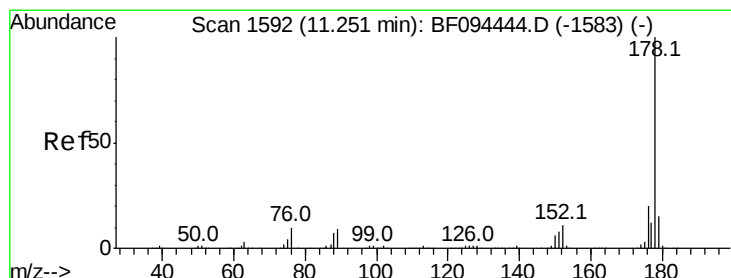
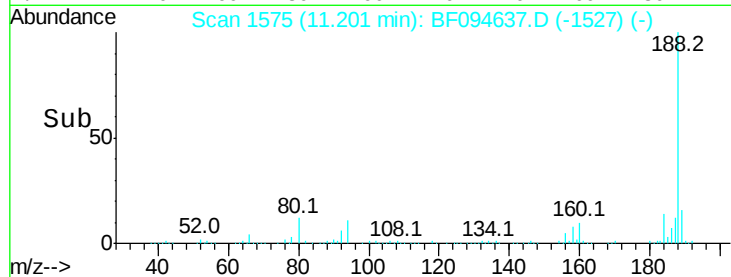
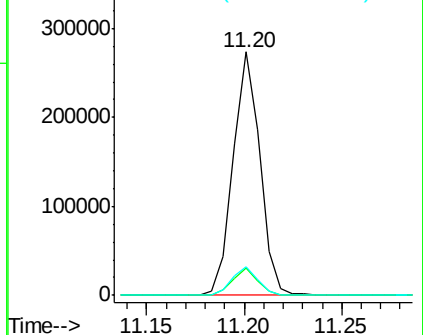
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 1575
Delta R.T. -0.02 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 262357
Ion Ratio Lower Upper
188 100
94 11.1 9.4 14.2
80 11.7 10.2 15.2

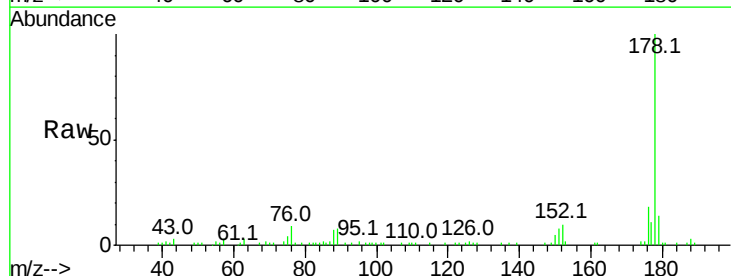


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

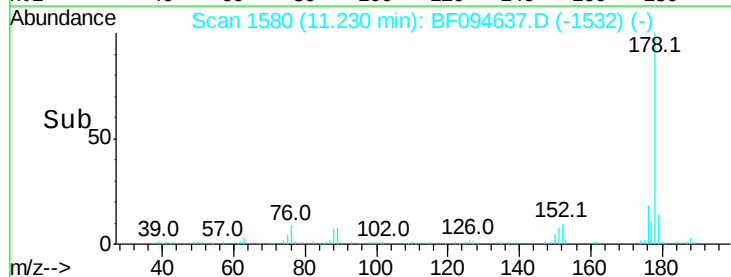
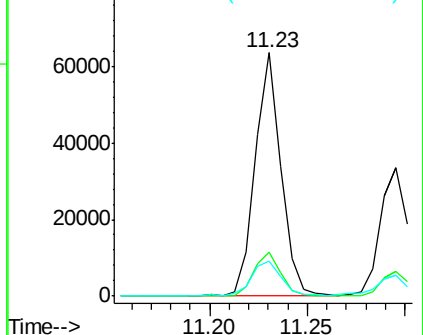


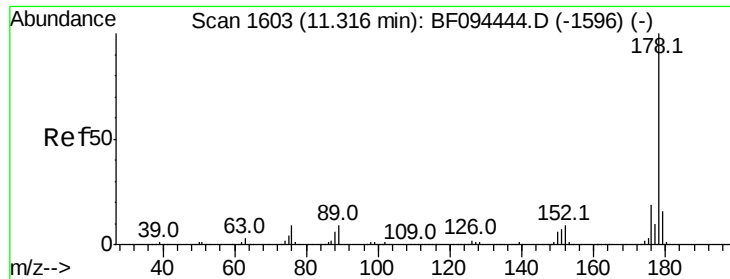
#70
Phenanthrene
Concen: 3.95 ng
RT: 11.23 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Tgt Ion:178 Resp: 58369
Ion Ratio Lower Upper
178 100
176 18.1 16.2 24.4
179 14.3 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

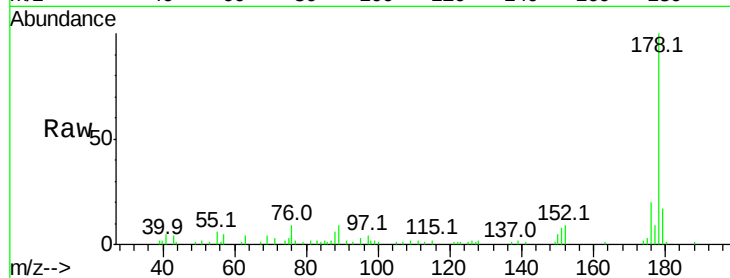




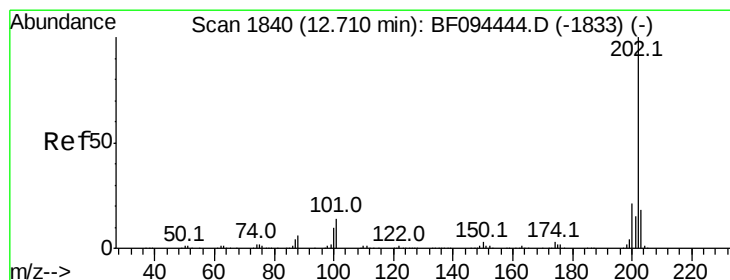
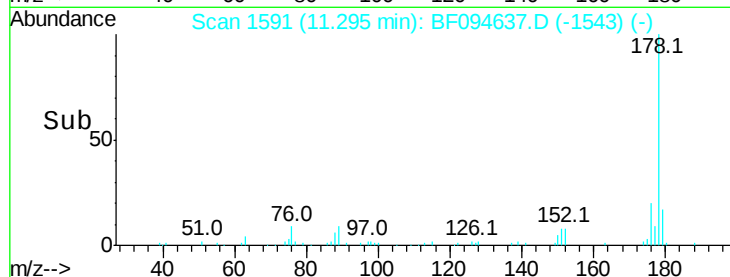
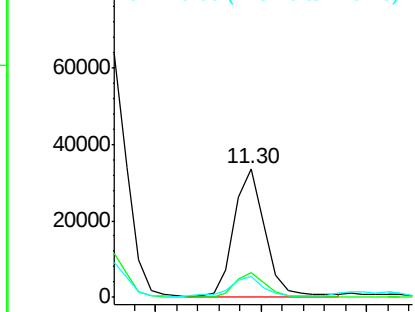
#71
 Anthracene
 Concen: 2.27 ng
 RT: 11.30 min Scan# 1591
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 34666
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.8
 179 16.6 12.7 19.1

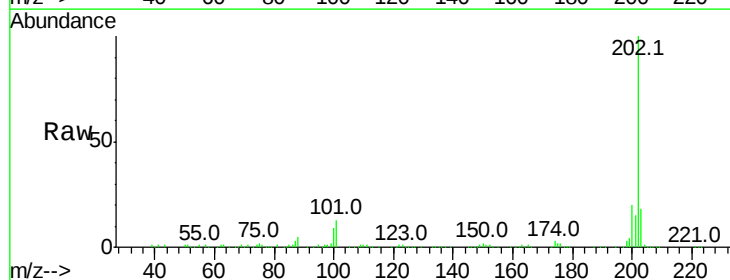


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

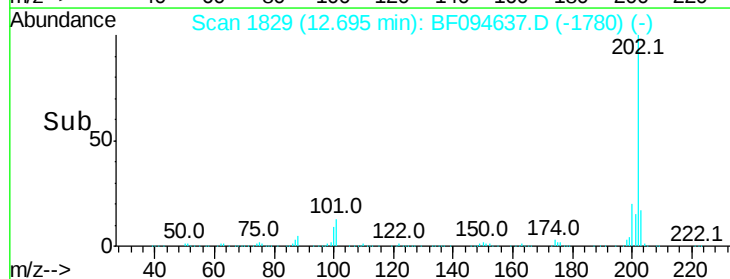
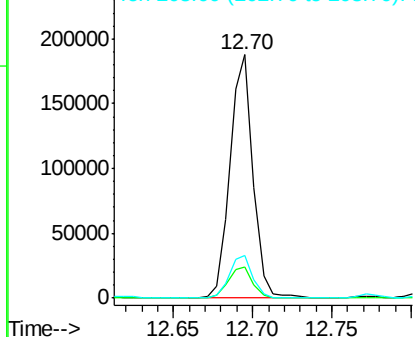


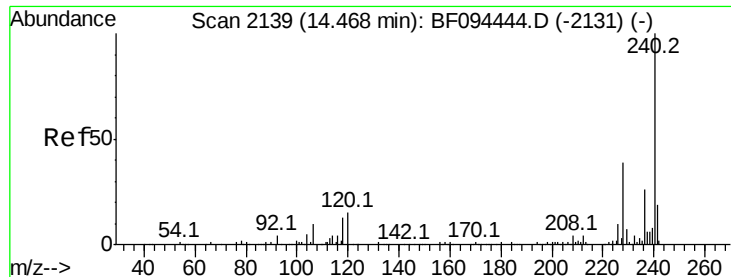
#74
 Fluoranthene
 Concen: 12.32 ng
 RT: 12.70 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion:202 Resp: 188618
 Ion Ratio Lower Upper
 202 100
 101 12.6 0.0 33.2
 203 17.6 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

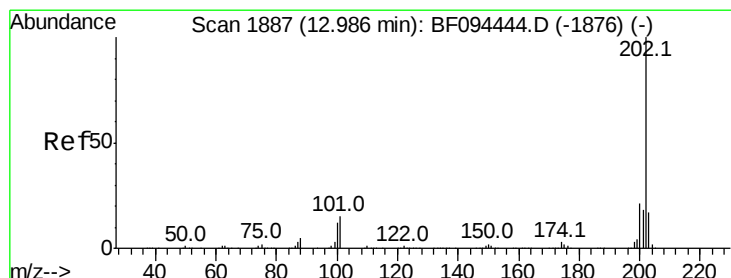
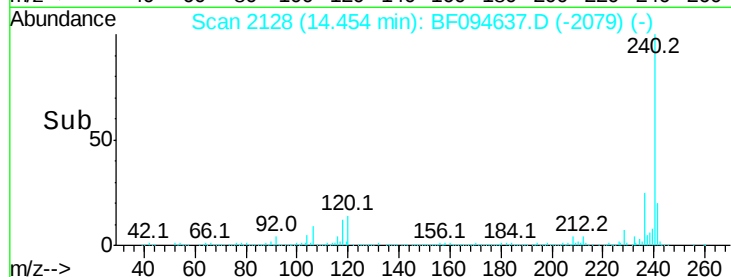
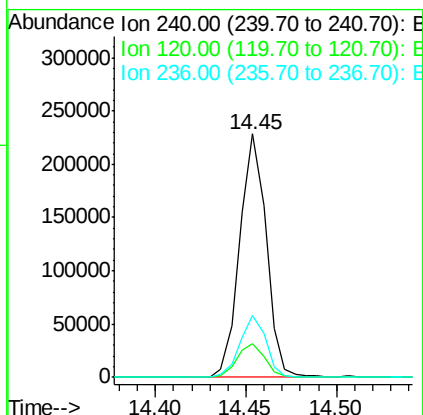
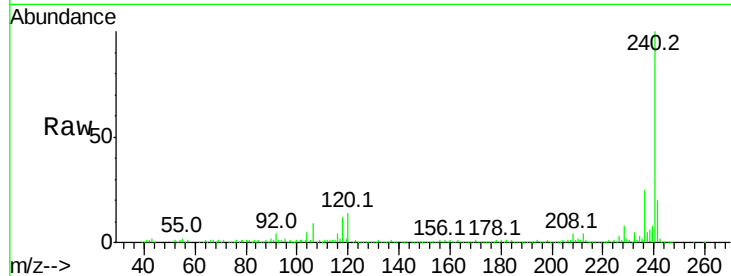




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.45 min Scan# 2128
 Delta R.T. -0.01 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

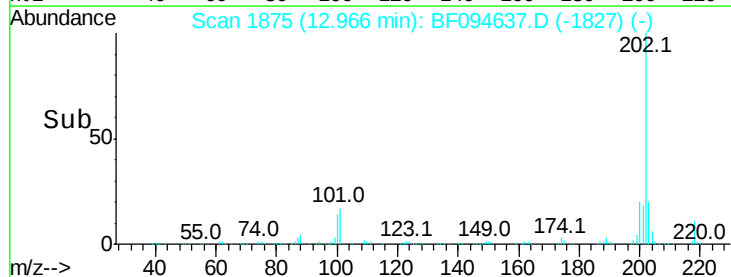
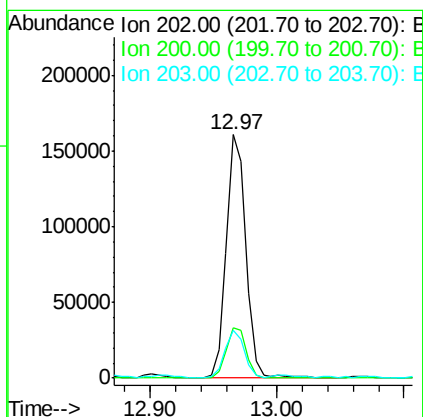
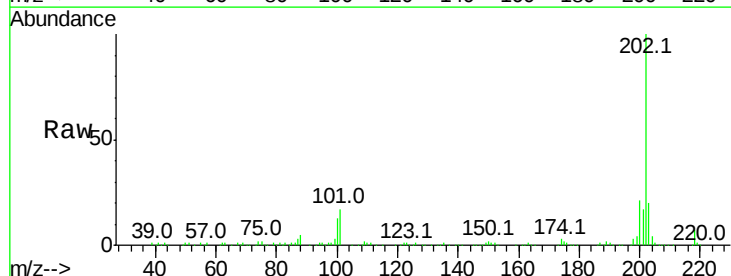
Instrument :
 BNA_F
 ClientSampleId :

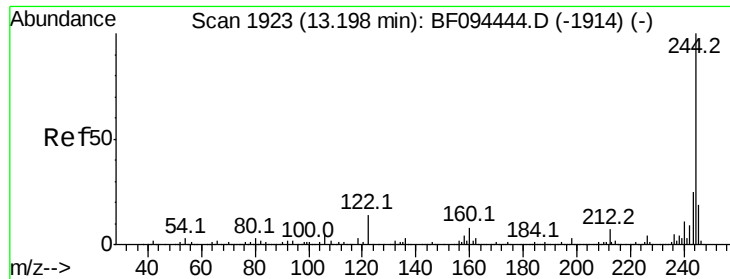
Tot Ion:240 Resp: 234535
 Ion Ratio Lower Upper
 240 100
 120 13.9 5.8 8.8#
 236 25.2 20.5 30.7



#77
 Pyrene
 Concen: 10.37 ng
 RT: 12.97 min Scan# 1875
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion:202 Resp: 169927
 Ion Ratio Lower Upper
 202 100
 200 20.7 17.6 26.4
 203 19.6 14.4 21.6

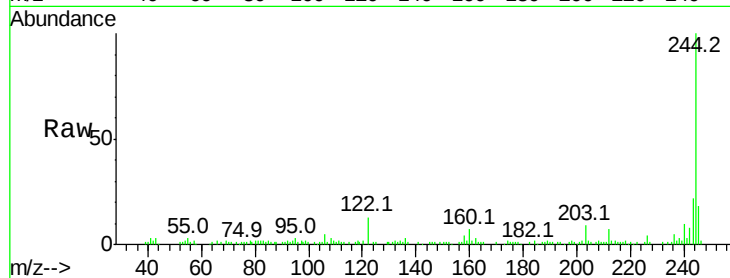




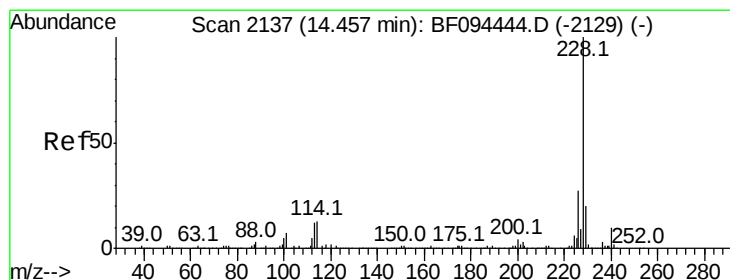
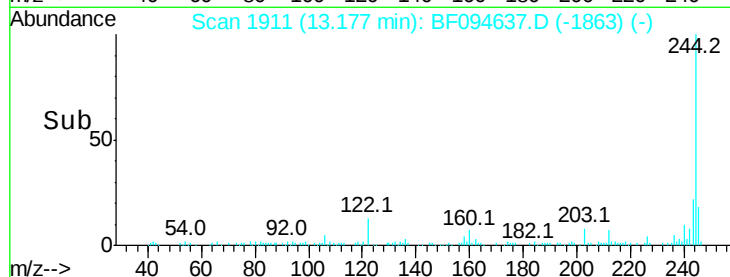
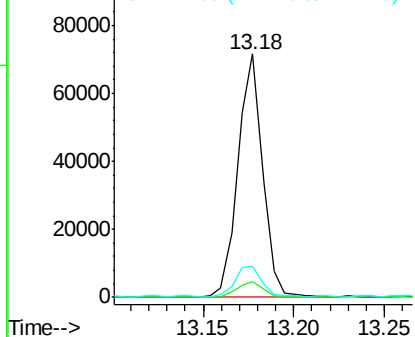
#78
 Terphenyl-d14
 Concen: 7.73 ng
 RT: 13.18 min Scan# 1911
 Delta R.T. -0.02 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion:244 Resp: 67840
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 12.7 10.3 15.5

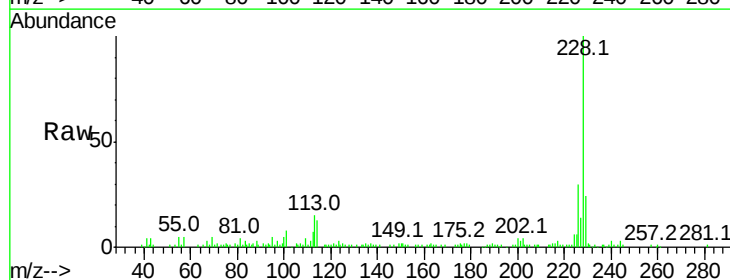


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

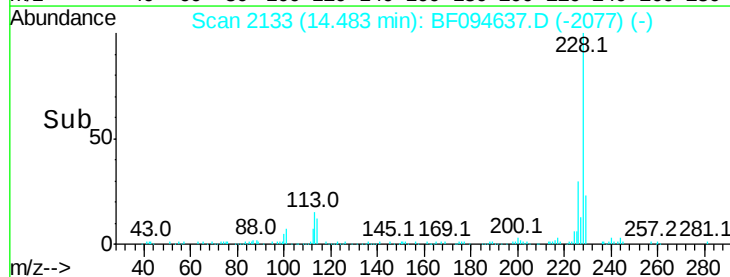
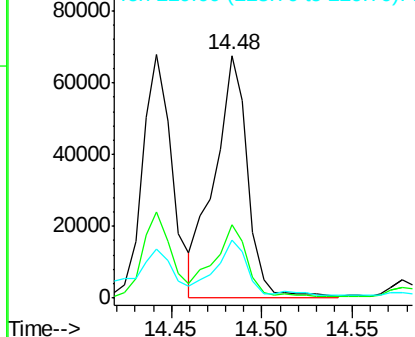


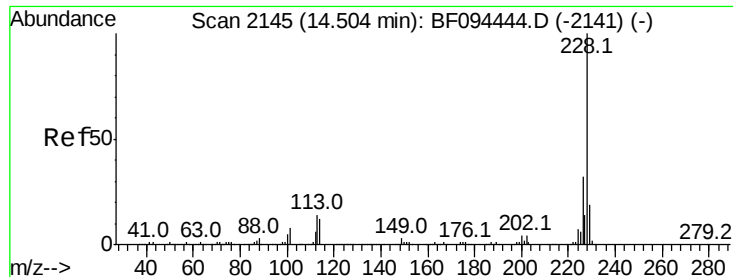
#80
 Benzo(a)anthracene
 Concen: 6.28 ng
 RT: 14.48 min Scan# 2133
 Delta R.T. 0.03 min
 Lab File: BF094637.D
 Acq: 26 Apr 2017 6:52

Tgt Ion:228 Resp: 85623
 Ion Ratio Lower Upper
 228 100
 226 30.2 22.6 33.8
 229 23.7 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

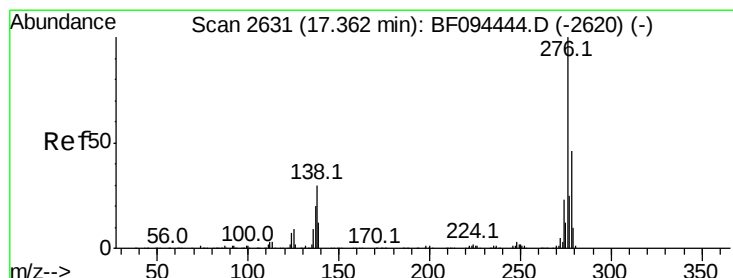
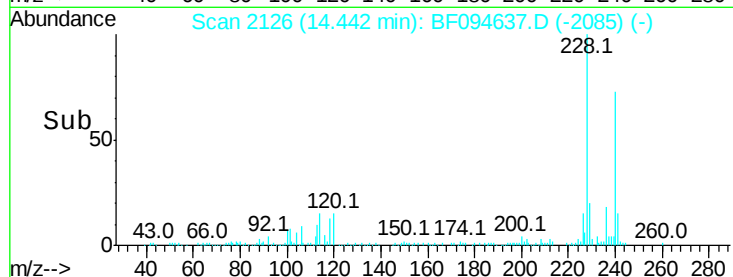
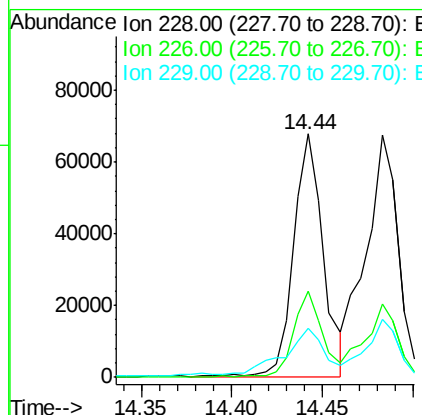
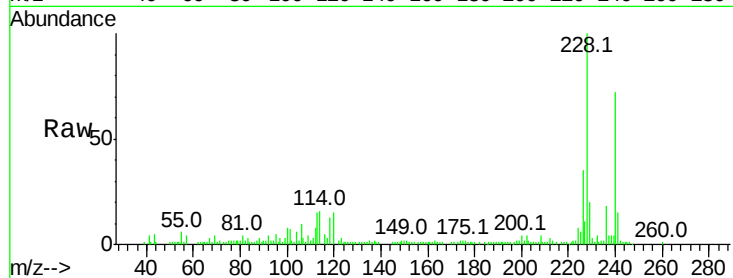




#82
Chrysene
Concen: 6.32 ng
RT: 14.44 min Scan# 2126
Delta R.T. -0.06 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

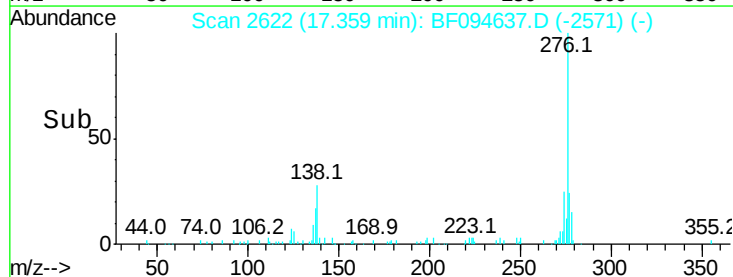
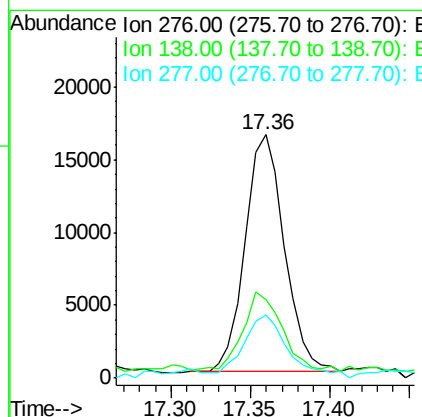
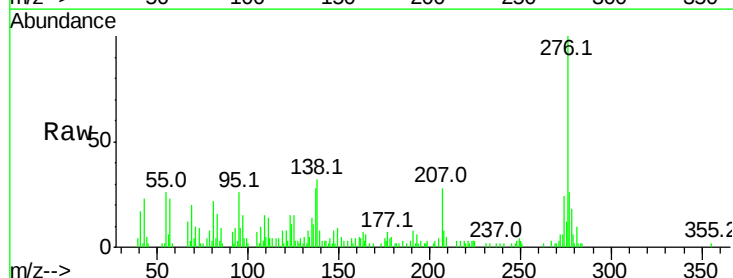
Instrument :
BNA_F
ClientSampleId :

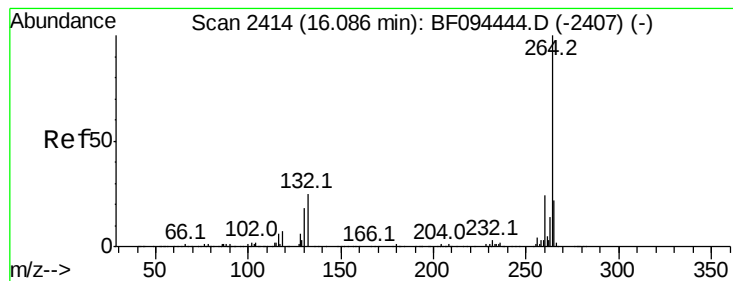
Tot Ion:228 Resp: 78726
Ion Ratio Lower Upper
228 100
226 35.4 24.9 37.3
229 20.0 15.8 23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 2.37 ng
RT: 17.36 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Tgt Ion:276 Resp: 28107
Ion Ratio Lower Upper
276 100
138 34.3 27.8 41.6
277 30.0 20.2 30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.08 min Scan# 2405

Delta R.T. -0.00 min

Lab File: BF094637.D

Acq: 26 Apr 2017 6:52

Instrument :

BNA_F

ClientSampleId :

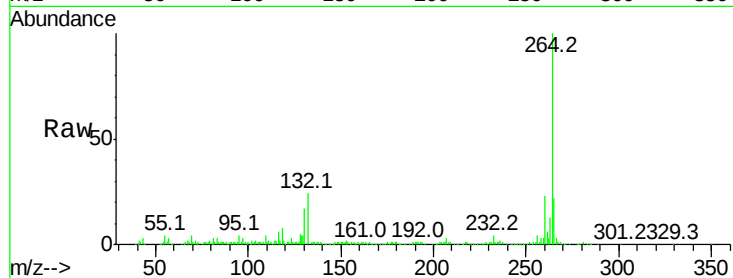
Tot Ion:264 Resp: 159431

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

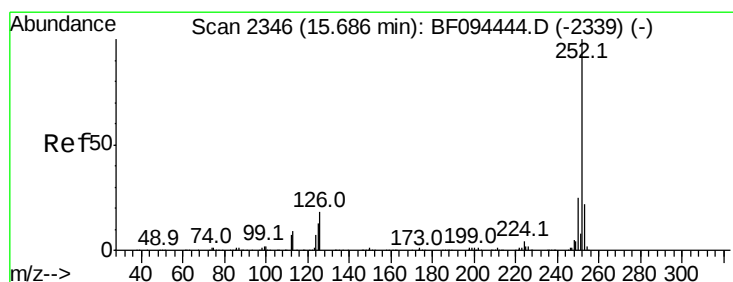
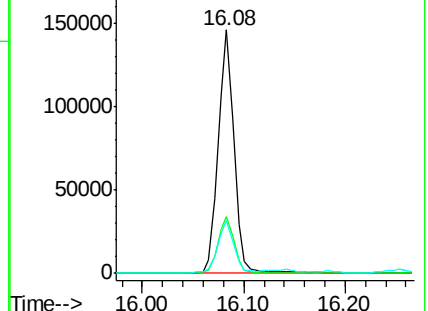
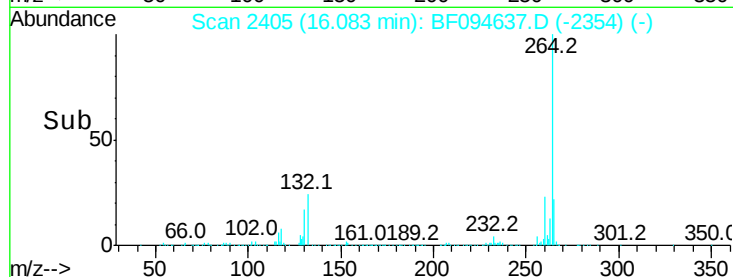
265 21.6 17.2 25.8



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: 13.18 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.00 min

Lab File: BF094637.D

Acq: 26 Apr 2017 6:52

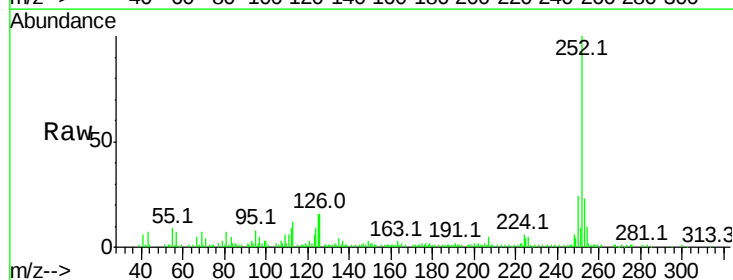
Tgt Ion:252 Resp: 128558

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

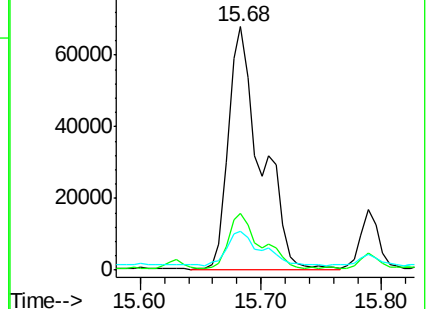
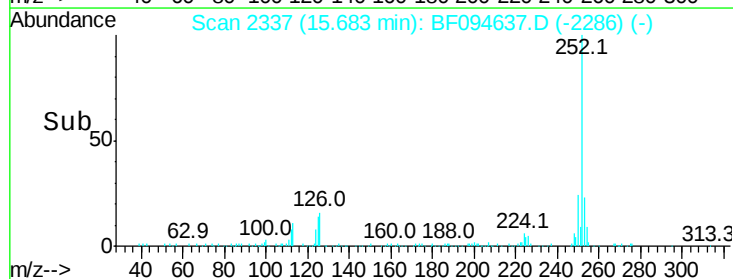
125 15.7 9.8 14.8#

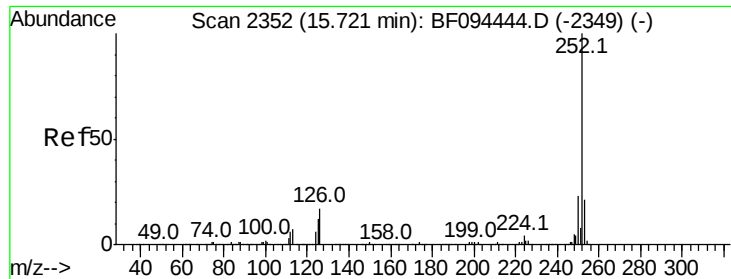


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

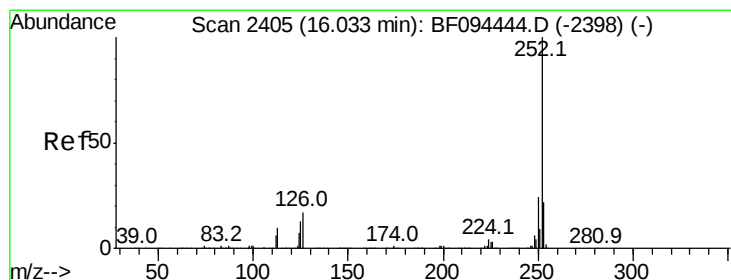
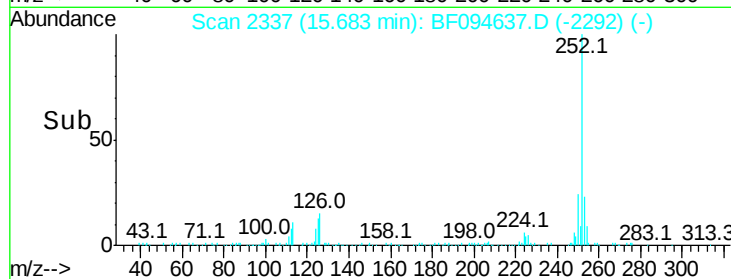
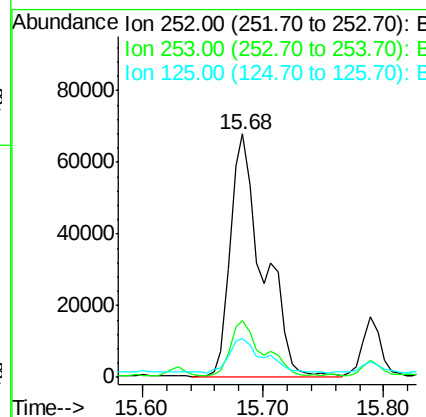
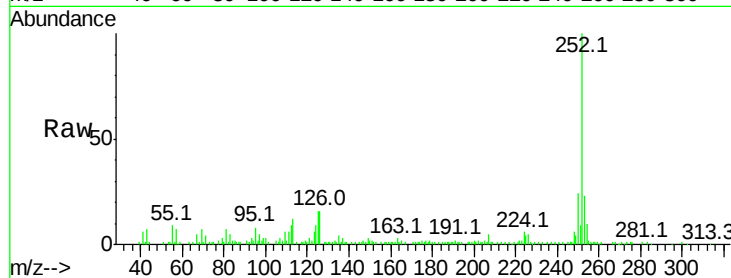




#88
Benzo(k)fluoranthene
Concen: 13.93 ng
RT: 15.68 min Scan# 2337
Delta R.T. -0.04 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

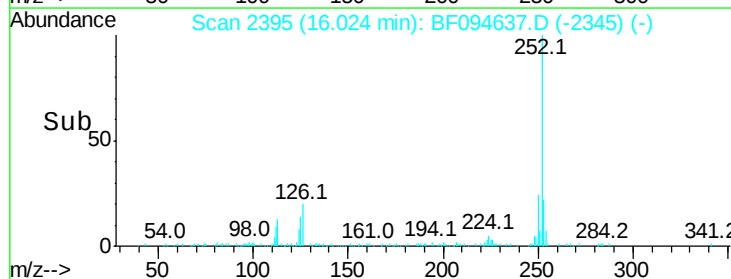
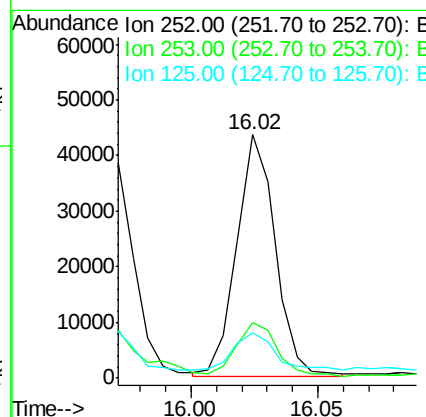
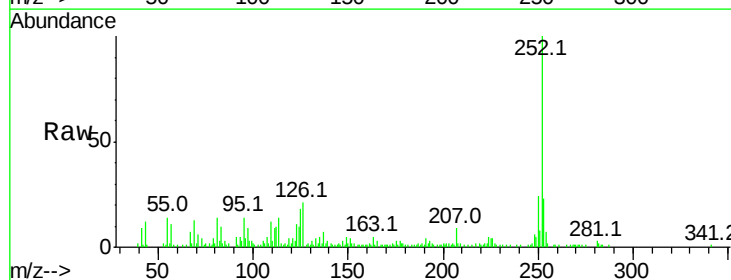
Instrument :
BNA_F
ClientSampleId :

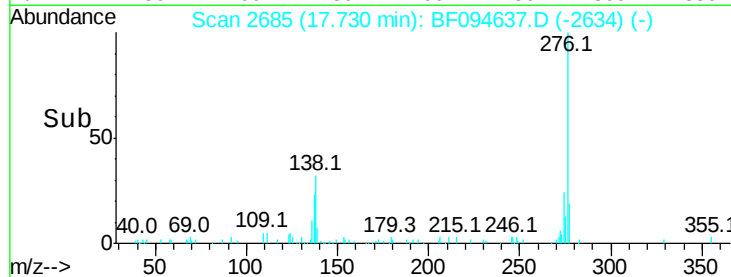
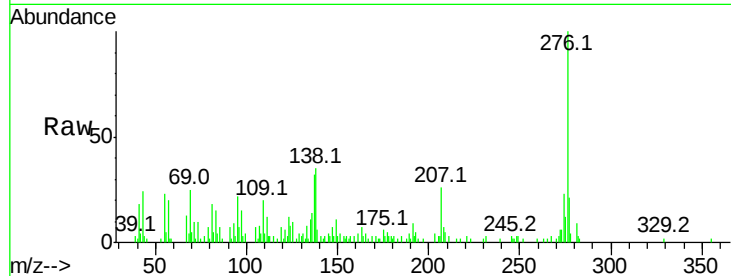
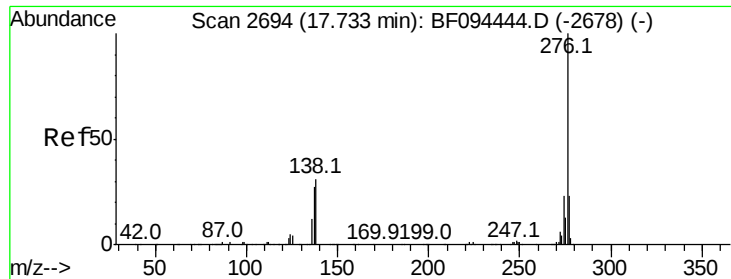
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	15.7	13.1	19.7



#89
Benzo(a)pyrene
Concen: 5.09 ng
RT: 16.02 min Scan# 2395
Delta R.T. -0.01 min
Lab File: BF094637.D
Acq: 26 Apr 2017 6:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	18.4	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 4.06 ng

RT: 17.73 min Scan# 2685

Delta R.T. -0.00 min

Lab File: BF094637.D

Acq: 26 Apr 2017 6:52

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 31180

Ion Ratio Lower Upper

276 100

277 20.9 18.6 28.0

138 34.8 25.4 38.0

