

Data Path : Z:\HPCHEM1\BNA F\Data\BF032917\
 Data File : BF094059.D
 Acq On : 30 Mar 2017 13:18
 Operator : SJ/MA
 Sample : I2431-06DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 30 14:16:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

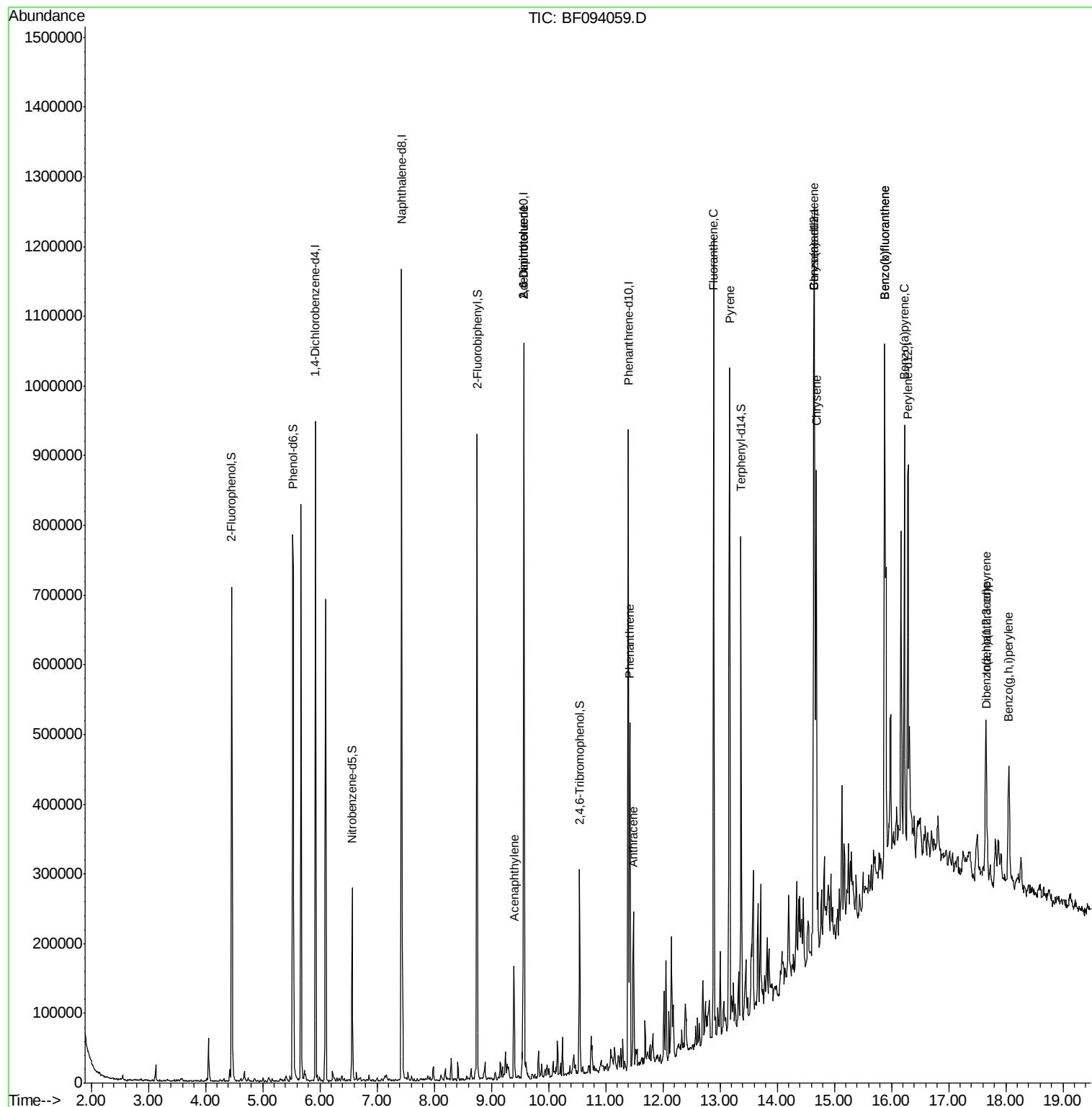
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	147536	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	570955	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	238282	20.00	ng	-0.03
63) Phenanthrene-d10	11.40	188	377468	20.00	ng	-0.02
75) Chrysene-d12	14.65	240	301271	20.00	ng	-0.03
86) Perylene-d12	16.29	264	232506	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	219425	25.12	ng	-0.01
7) Phenol-d6	5.53	99	265824	24.60	ng	-0.02
23) Nitrobenzene-d5	6.56	82	96974	9.69	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	33590	17.84	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	328101	21.00	ng	-0.03
78) Terphenyl-d14	13.37	244	224531	16.71	ng	-0.04
Target Compounds						Qvalue
48) Acenaphthylene	9.40	152	82329	3.29	ng	98
50) 2,6-Dinitrotoluene	9.57	165	31263	8.05	ng	# 34
56) 2,4-Dinitrotoluene	9.57	165	31265	6.41	ng	# 33
70) Phenanthrene	11.42	178	209149	9.96	ng	97
71) Anthracene	11.49	178	89788	4.15	ng	98
74) Fluoranthene	12.89	202	480561	22.35	ng	99
77) Pyrene	13.17	202	431496	19.74	ng	98
80) Benzo(a)anthracene	14.64	228	321734	18.31	ng	94
82) Chrysene	14.69	228	287575	17.64	ng	98
85) Indeno(1,2,3-cd)pyrene	17.65	276	144313	10.22	ng	94
87) Benzo(b)fluoranthene	15.88	252	544300	38.19	ng	98
88) Benzo(k)fluoranthene	15.88	252	544300	39.03	ng	98
89) Benzo(a)pyrene	16.23	252	250332	19.07	ng	98
90) Dibenzo(a,h)anthracene	17.67	278	39806	3.58	ng	# 82
91) Benzo(a,h,i)perylene	18.06	276	122256	10.91	ng	97

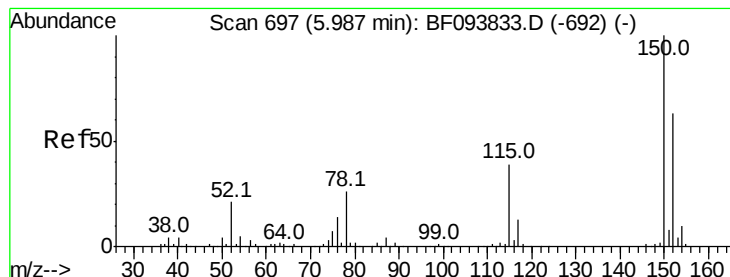
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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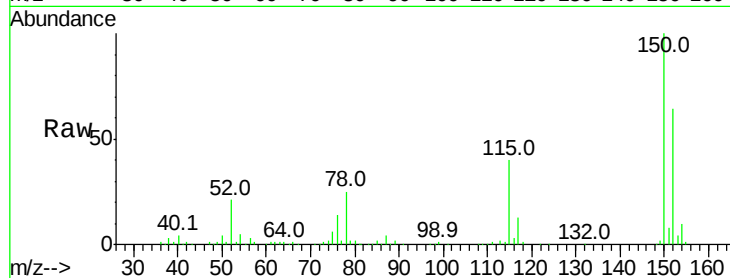


#1

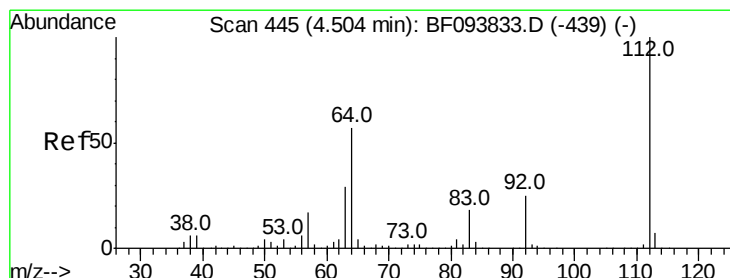
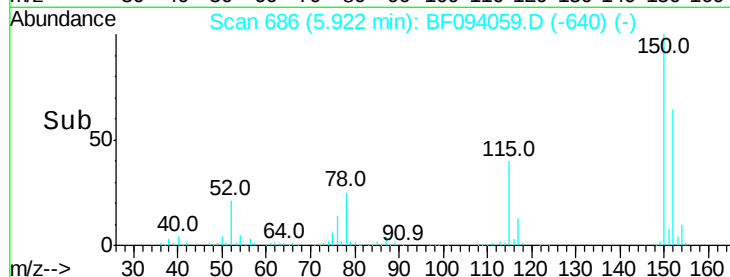
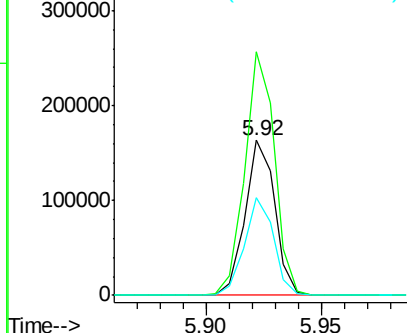
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 147536
Ion Ratio Lower Upper
152 100
150 157.0 126.2 189.2
115 62.7 52.2 78.2



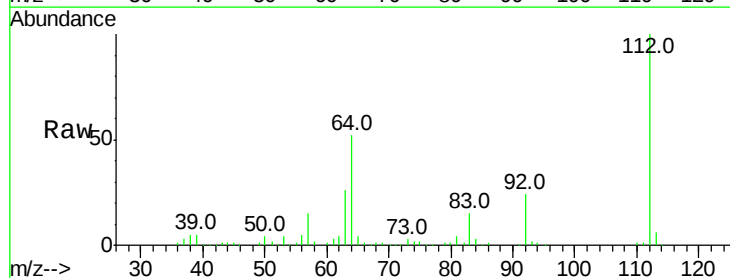
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



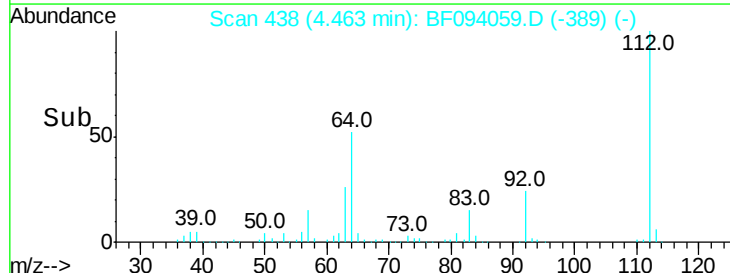
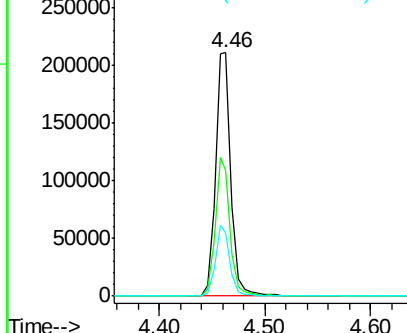
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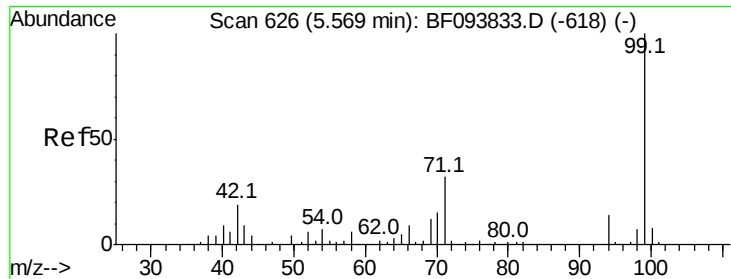
2-Fluorophenol
Concen: 25.12 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Tgt Ion:112 Resp: 219425
Ion Ratio Lower Upper
112 100
64 51.7 46.0 69.0
63 25.9 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: 24.60 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Instrument :

BNA_F

ClientSampleId :

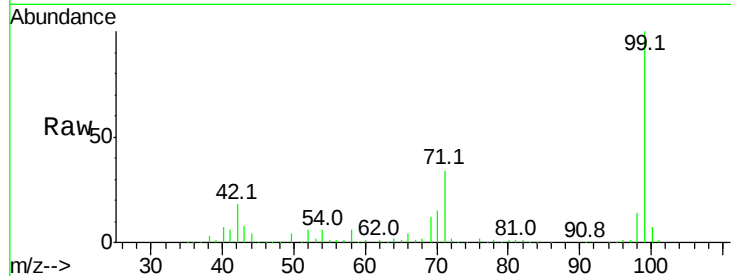
Tot Ion: 99 Resp: 265824

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

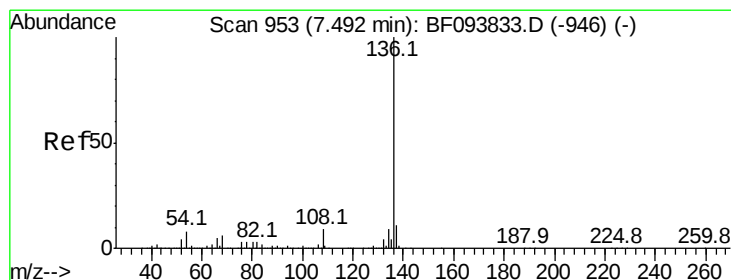
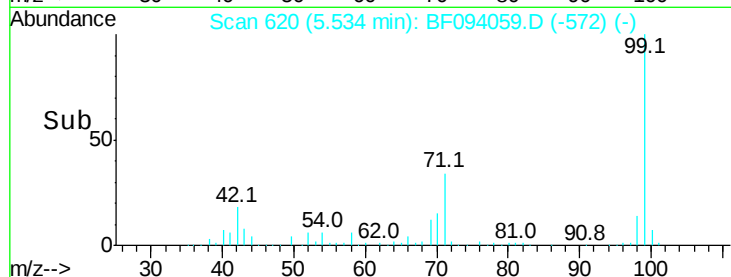
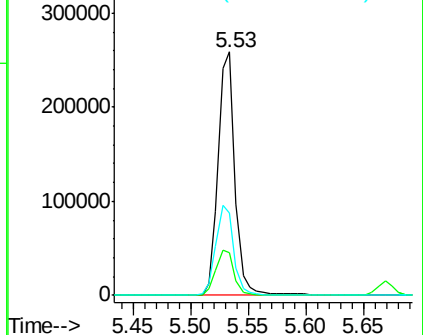
71 33.8 24.5 36.7



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: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Tgt Ion: 136 Resp: 570955

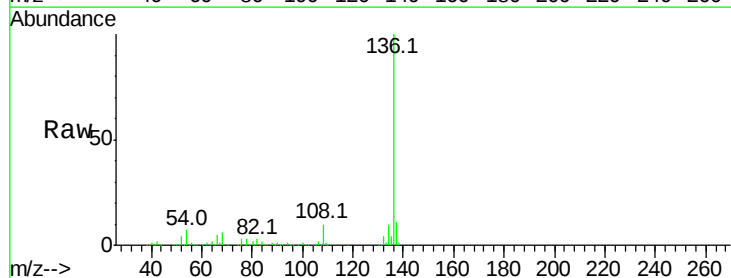
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.4 4.9 7.3#

68 5.8 4.1 6.1

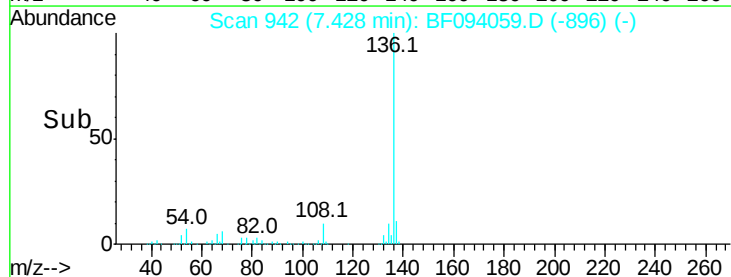
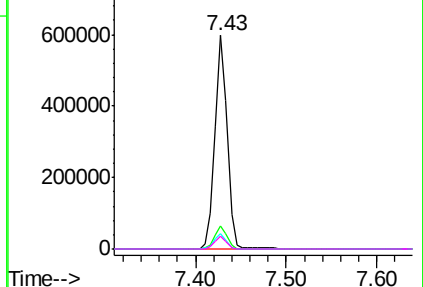


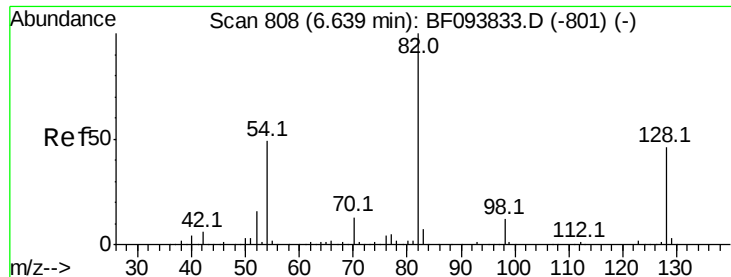
Abundance Ion 136.00 (135.70 to 136.70): E

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

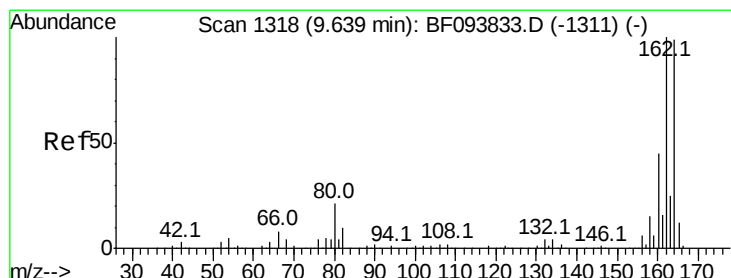
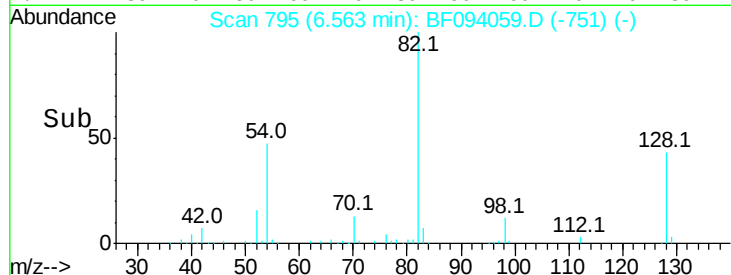
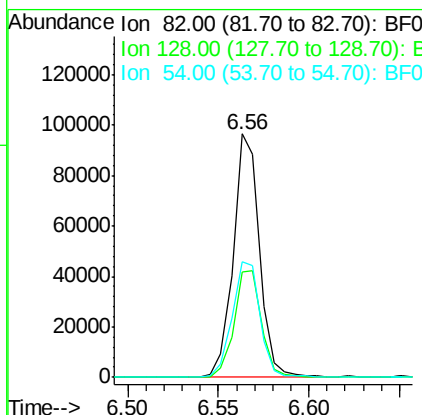
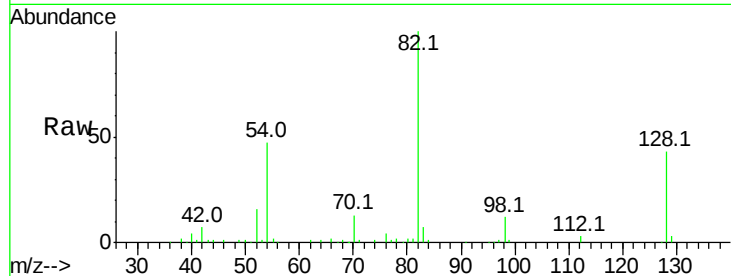




#23
 Nitrobenzene-d5
 Concen: 9.69 ng
 RT: 6.56 min Scan# 795
 Delta R.T. -0.04 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

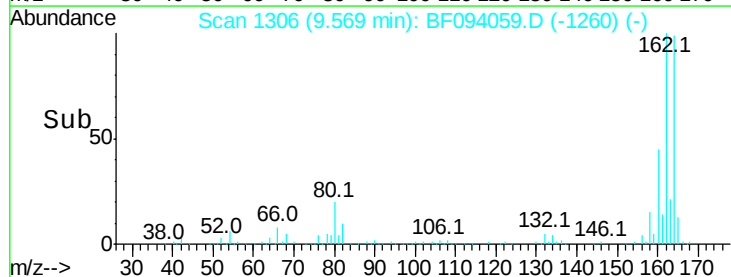
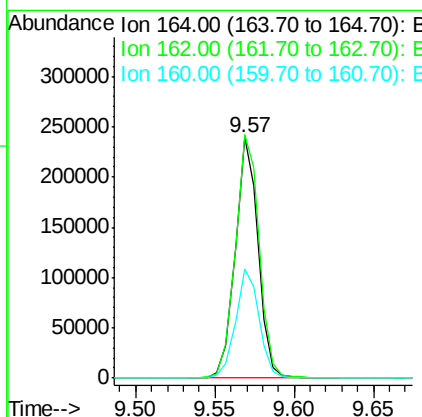
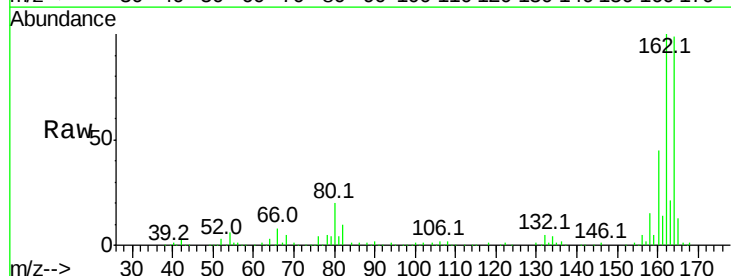
Instrument :
 BNA_F
 ClientSampleId :

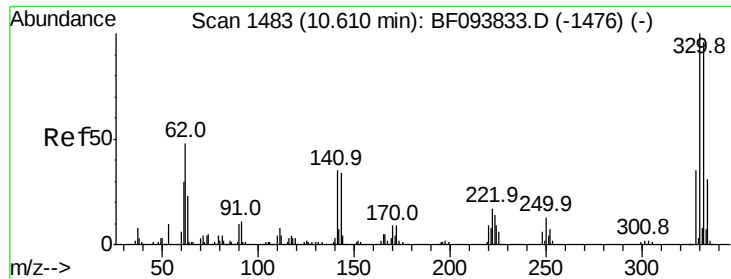
Tot Ion: 82 Resp: 96974
 Ion Ratio Lower Upper
 82 100
 128 43.3 34.0 51.0
 54 47.5 42.2 63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.57 min Scan# 1306
 Delta R.T. -0.03 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Tgt Ion:164 Resp: 238282
 Ion Ratio Lower Upper
 164 100
 162 101.1 82.6 123.8
 160 45.1 36.2 54.2

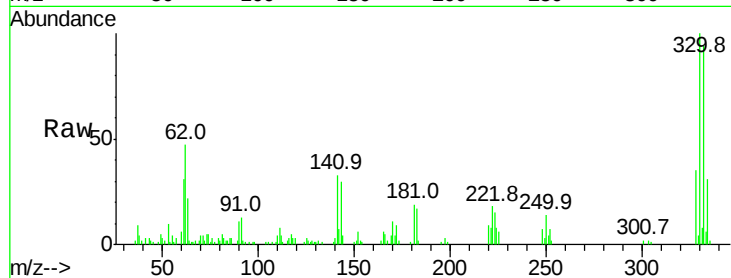




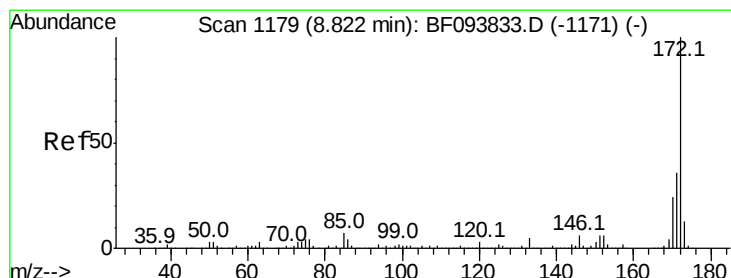
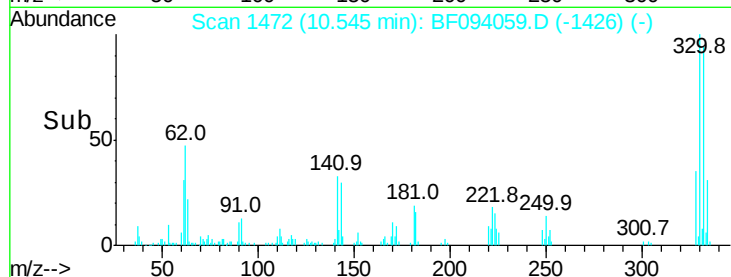
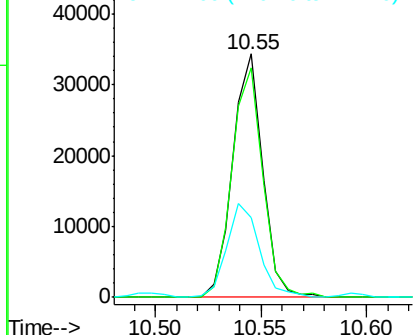
#41
 2,4,6-Tribromophenol
 Concen: 17.84 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.6	115.0
141	41.8	31.4	47.2

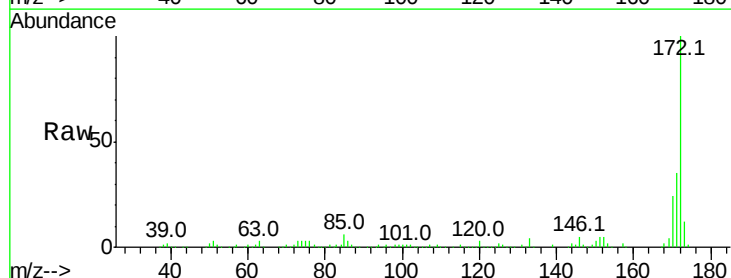


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

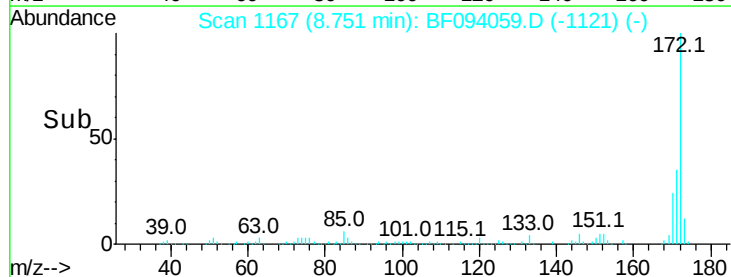
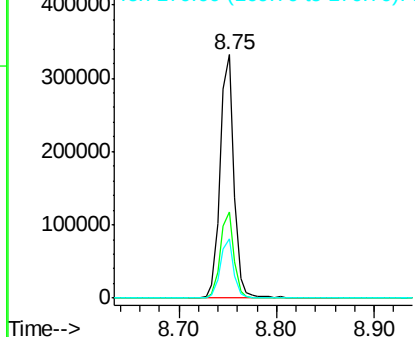


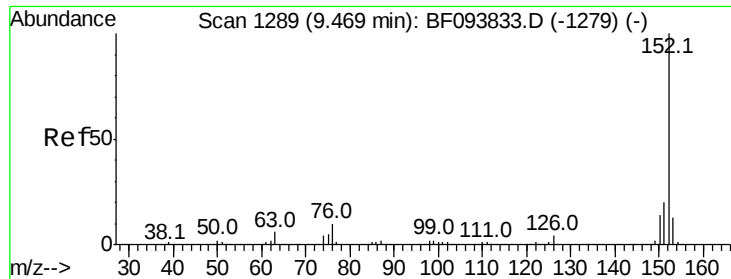
#44
 2-Fluorobiphenyl
 Concen: 21.00 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	24.2	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





#48

Acenaphthylene

Concen: 3.29 ng

RT: 9.40 min Scan# 1277

Delta R.T. -0.03 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Instrument :

BNA_F

ClientSampled :

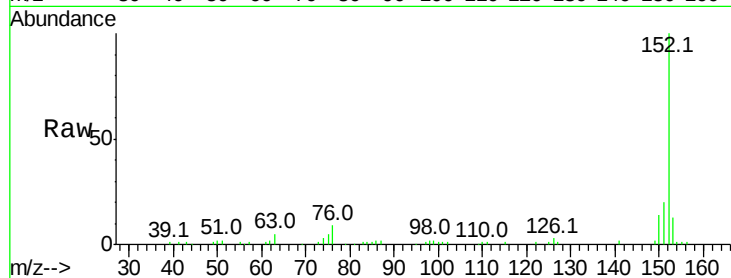
Tot Ion:152 Resp: 82329

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

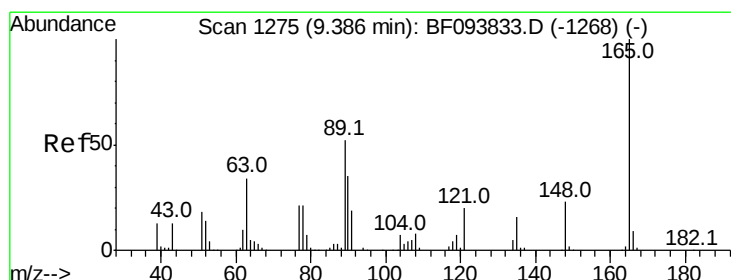
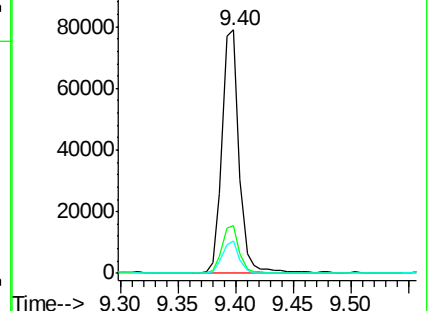
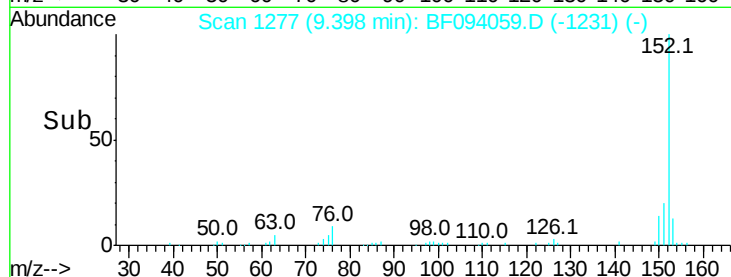
153 13.4 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.05 ng

RT: 9.57 min Scan# 1306

Delta R.T. 0.22 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

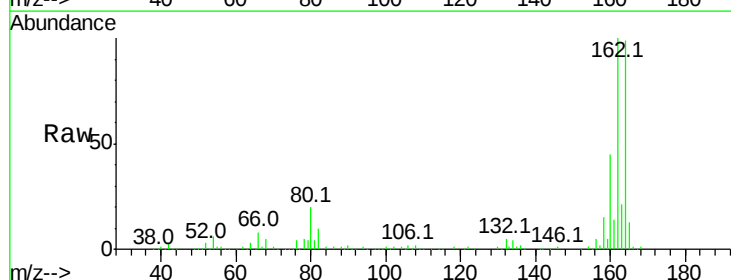
Tgt Ion:165 Resp: 31263

Ion Ratio Lower Upper

165 100

63 1.6 34.3 51.5#

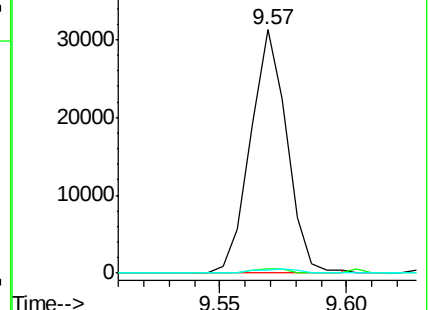
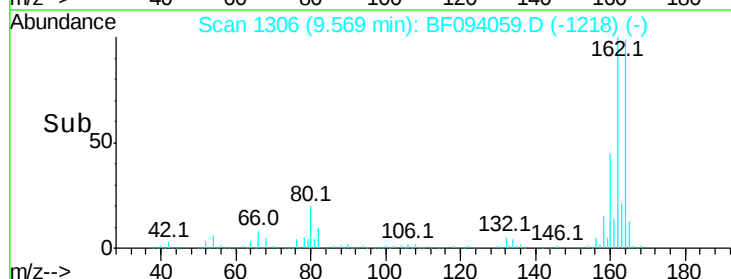
89 1.4 37.1 55.7#



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

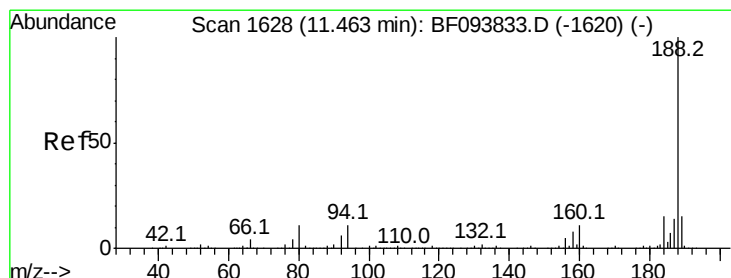
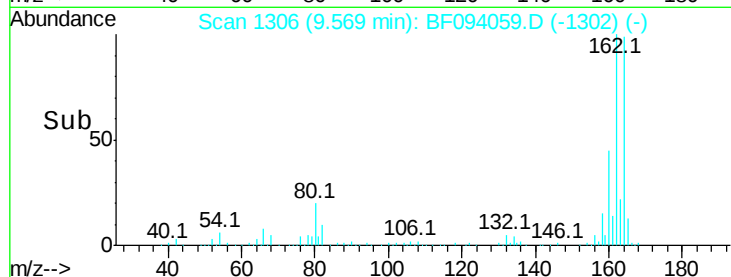
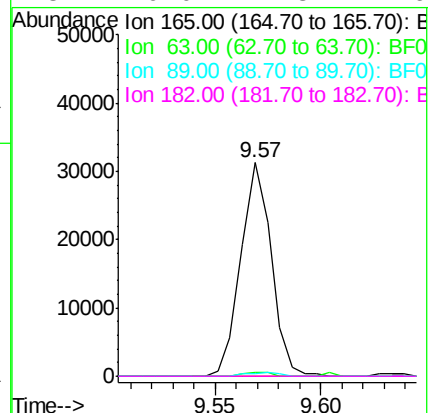
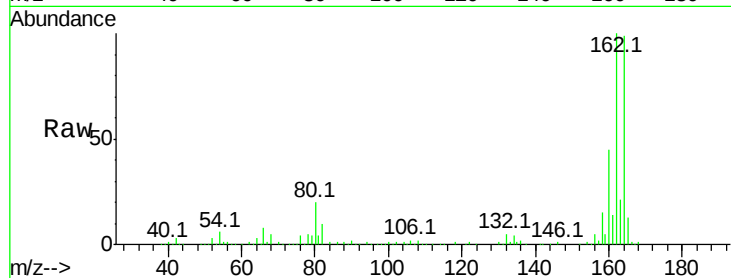




#56
 2,4-Dinitrotoluene
 Concen: 6.41 ng
 RT: 9.57 min Scan# 1306
 Delta R.T. -0.28 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

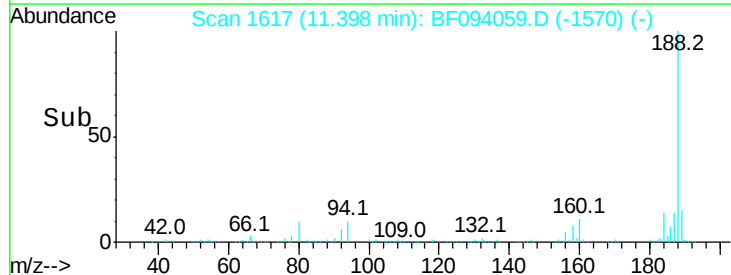
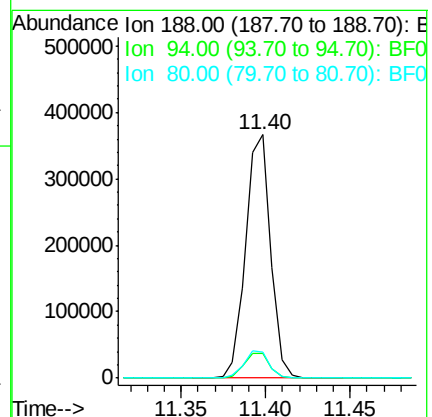
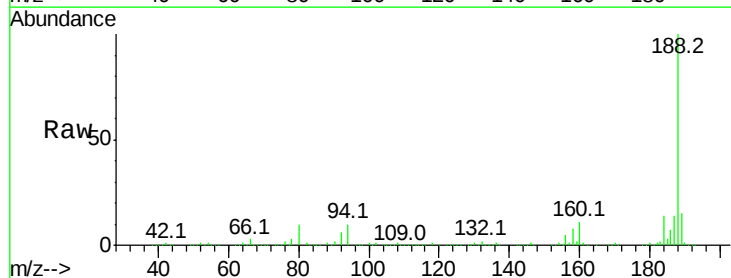
Instrument :
 BNA_F
 ClientSampleId :

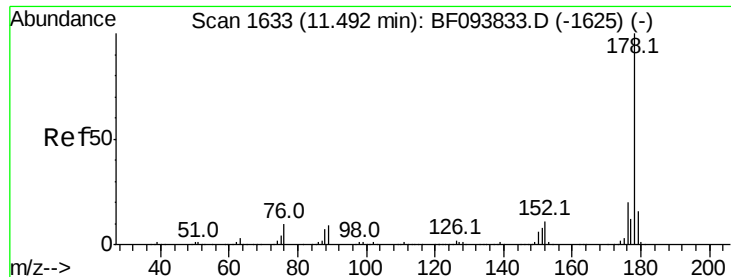
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.4	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.40 min Scan# 1617
 Delta R.T. -0.02 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	9.4	14.2
80	10.4	10.2	15.2

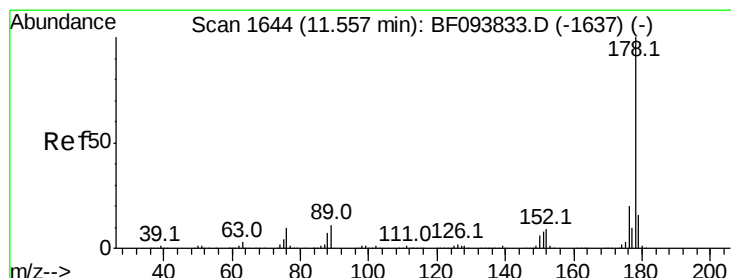
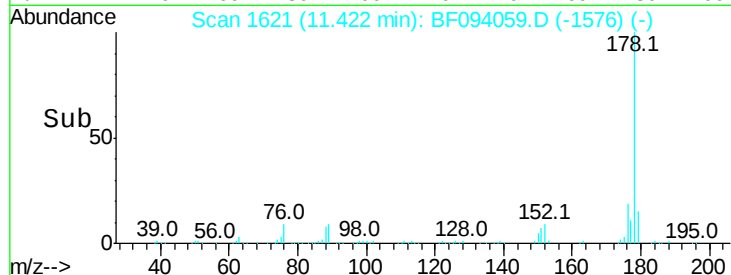
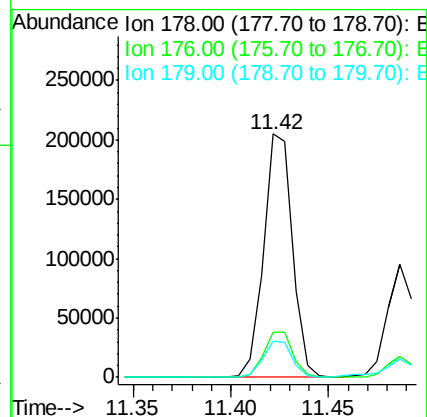
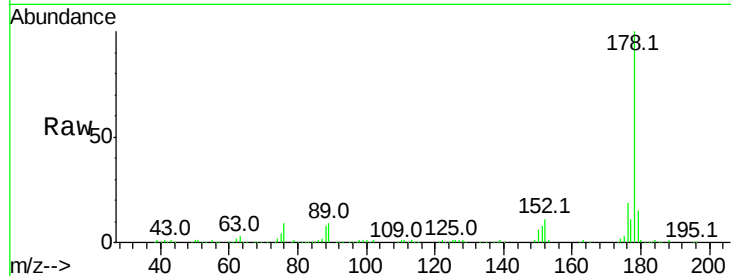




#70
Phenanthrene
Concen: 9.96 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

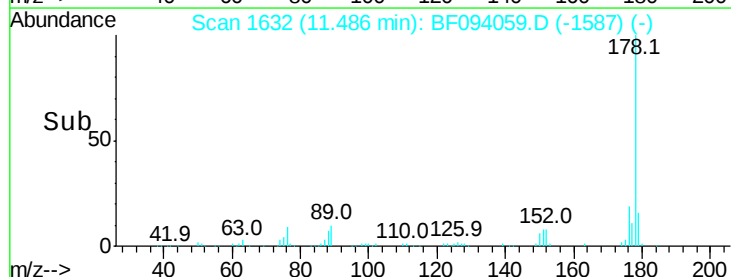
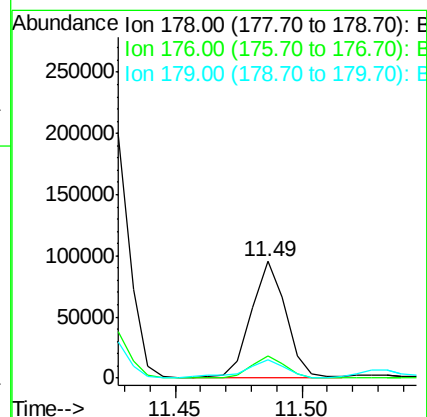
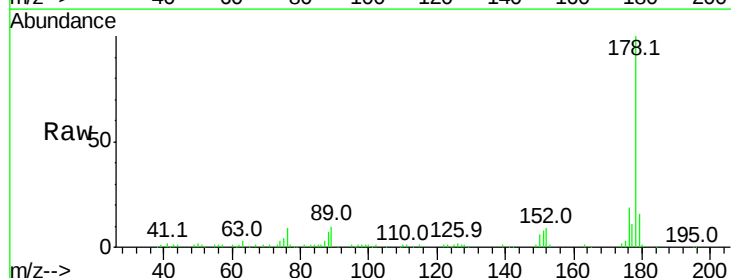
Instrument :
BNA_F
ClientSampled :

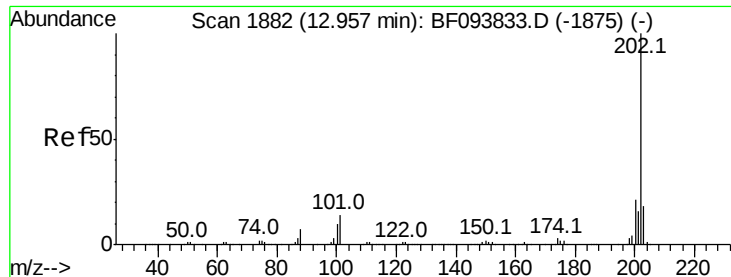
Tot Ion:178 Resp: 209149
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.4
179 15.1 12.6 19.0



#71
Anthracene
Concen: 4.15 ng
RT: 11.49 min Scan# 1632
Delta R.T. -0.04 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Tgt Ion:178 Resp: 89788
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 16.3 12.7 19.1

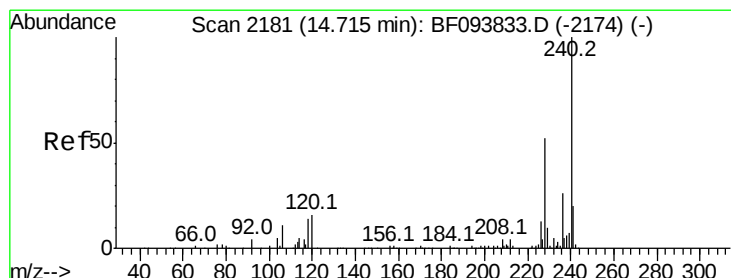
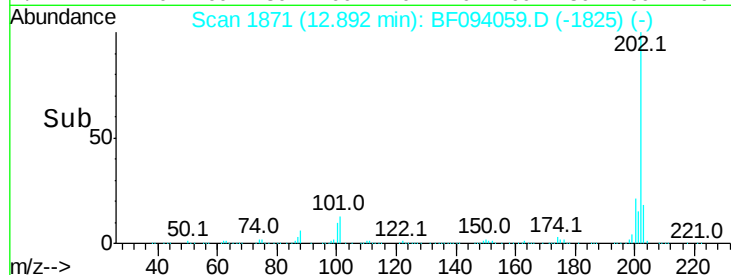
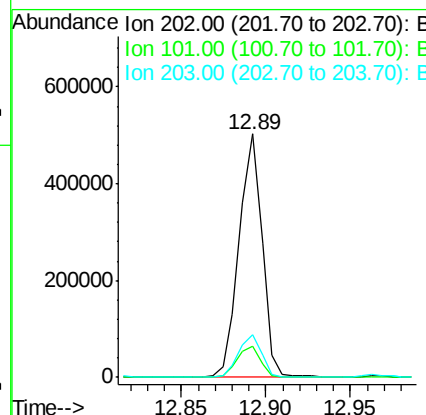
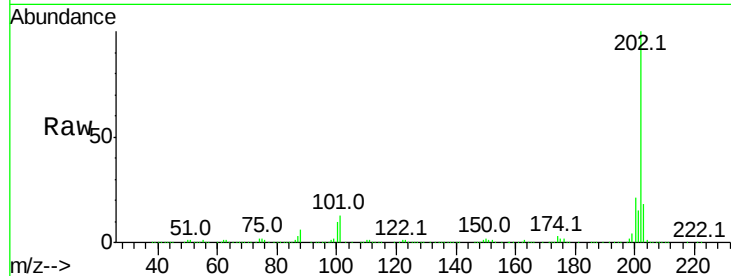




#74
Fluoranthene
Concen: 22.35 ng
RT: 12.89 min Scan# 1871
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

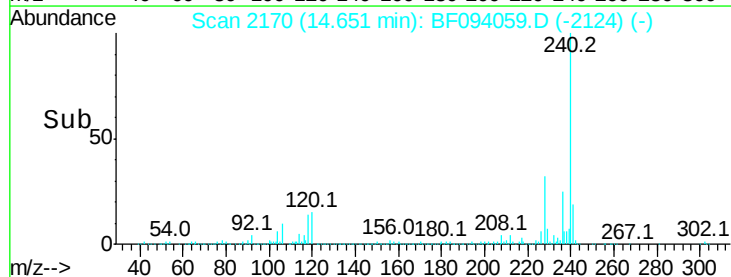
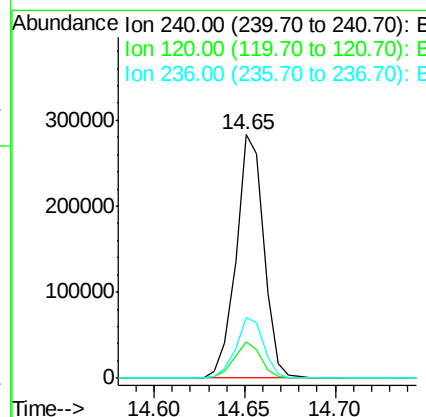
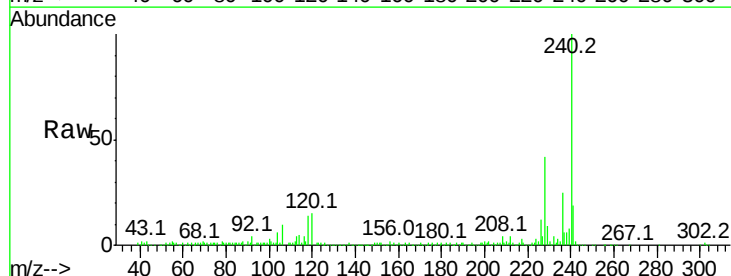
Instrument :
BNA_F
ClientSampleId :

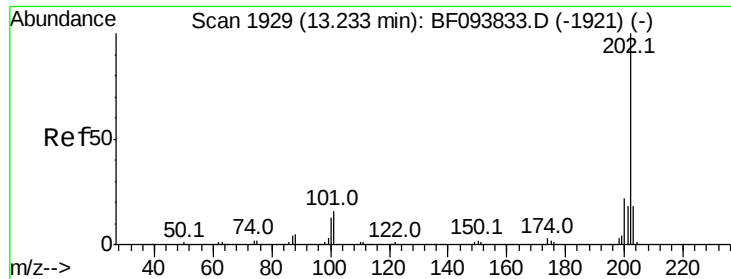
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	33.2
203	17.7	0.0	38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.65 min Scan# 2170
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	25.1	20.5	30.7

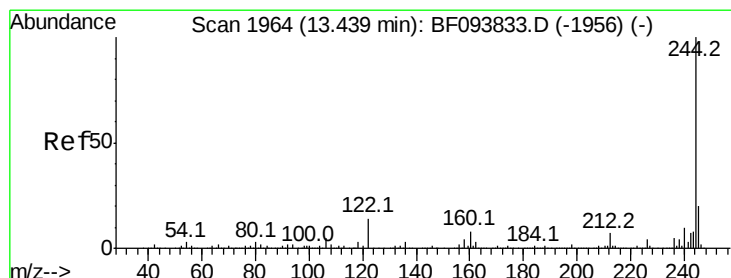
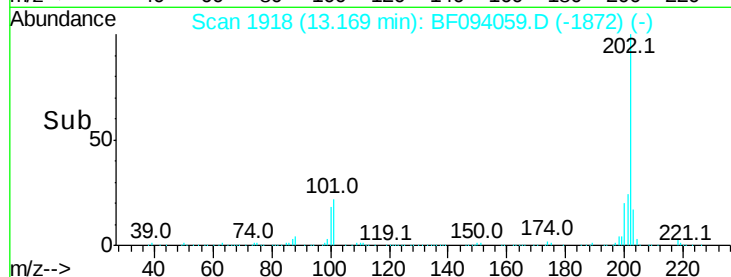
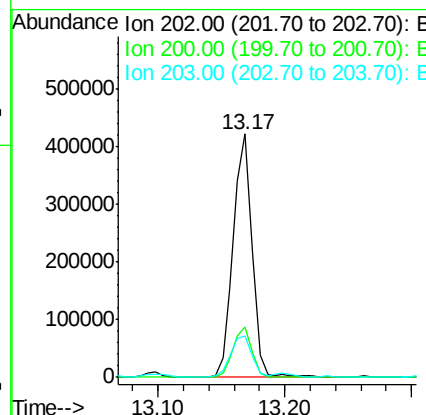
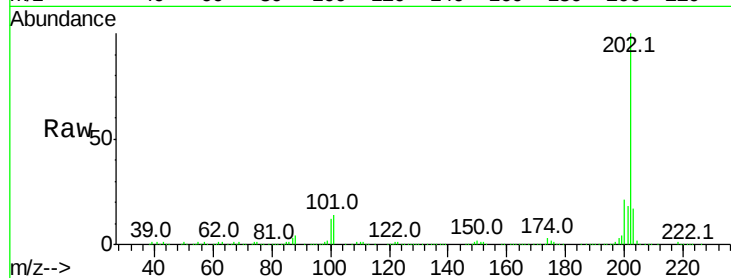




#77
Pvrene
Concen: 19.74 ng
RT: 13.17 min Scan# 1918
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

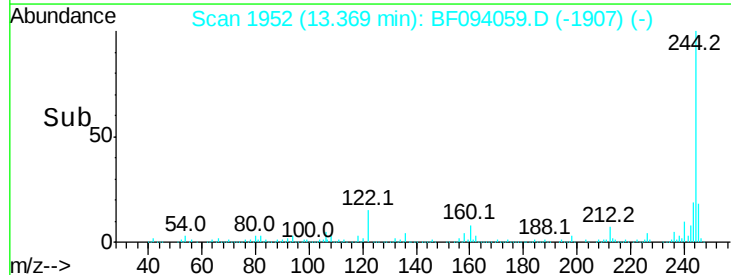
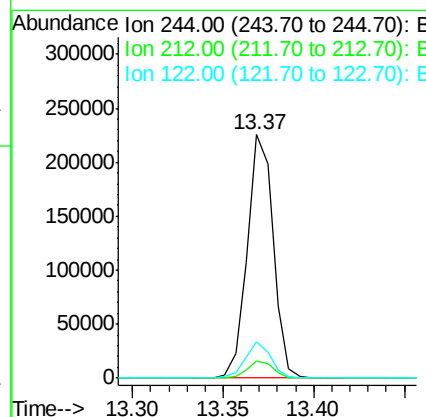
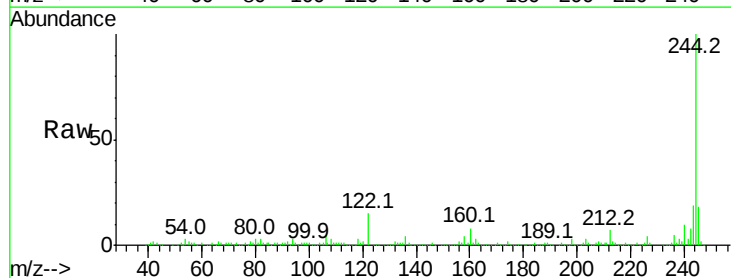
Instrument :
BNA_F
ClientSampled :

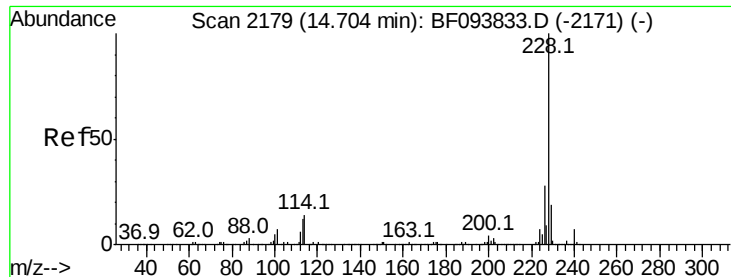
Tot Ion:202 Resp: 431496
Ion Ratio Lower Upper
202 100
200 20.9 17.6 26.4
203 17.1 14.4 21.6



#78
Terphenyl-d14
Concen: 16.71 ng
RT: 13.37 min Scan# 1952
Delta R.T. -0.04 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Tgt Ion:244 Resp: 224531
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 15.0 10.3 15.5

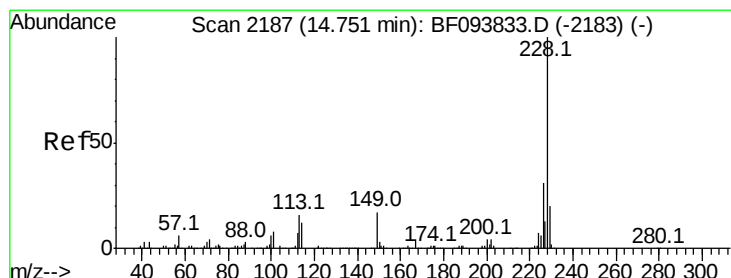
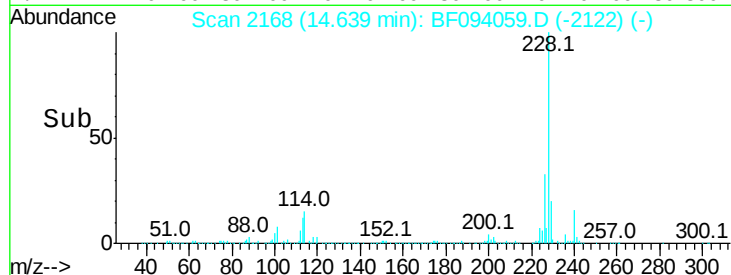
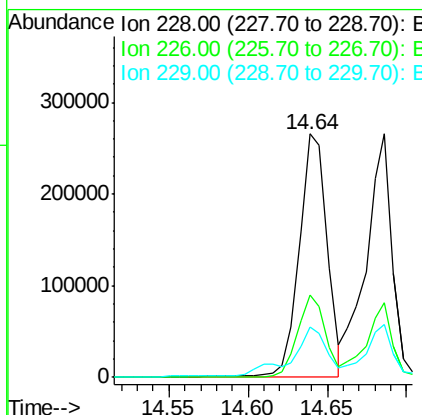
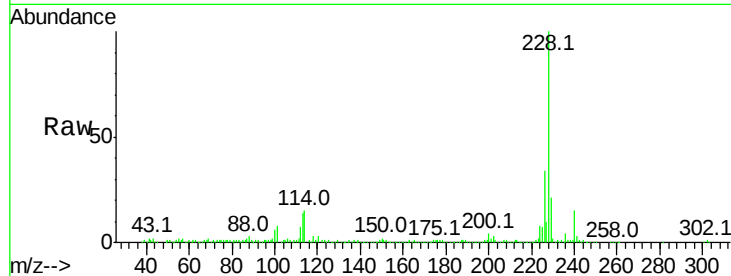




#80
Benzo(a)anthracene
Concen: 18.31 ng
RT: 14.64 min Scan# 2168
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

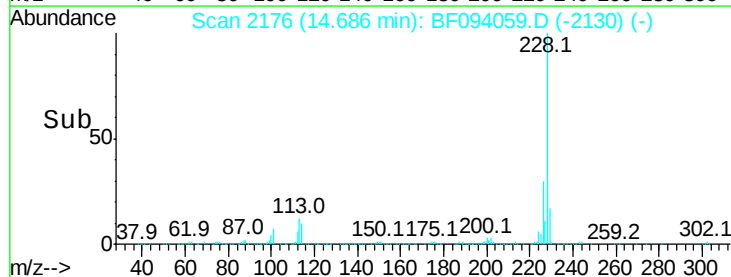
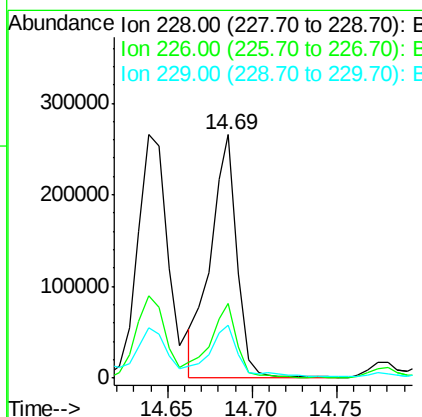
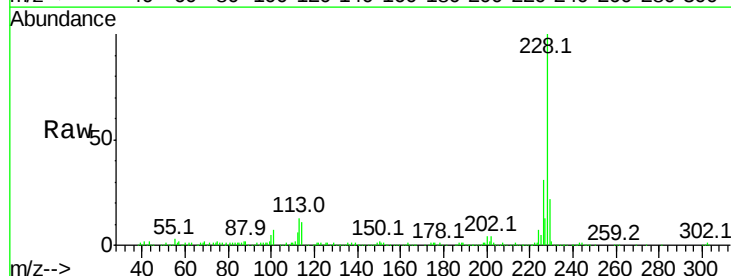
Instrument :
BNA_F
ClientSampleId :

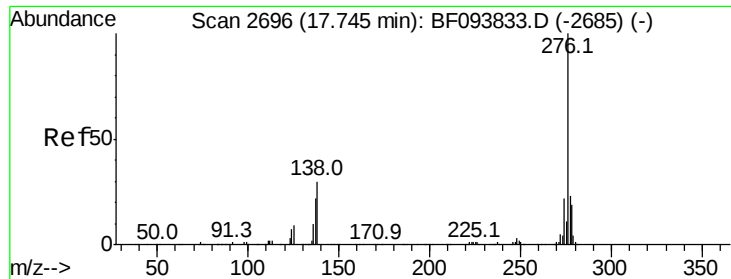
Tot Ion:228 Resp: 321734
Ion Ratio Lower Upper
228 100
226 33.8 22.6 33.8
229 20.6 16.3 24.5



#82
Chrysene
Concen: 17.64 ng
RT: 14.69 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF094059.D
Acq: 30 Mar 2017 13:18

Tgt Ion:228 Resp: 287575
Ion Ratio Lower Upper
228 100
226 30.5 24.9 37.3
229 21.7 15.8 23.6

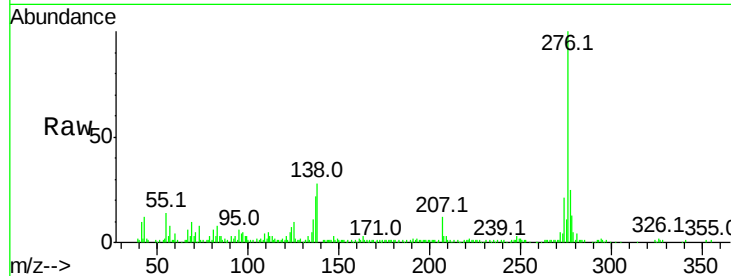




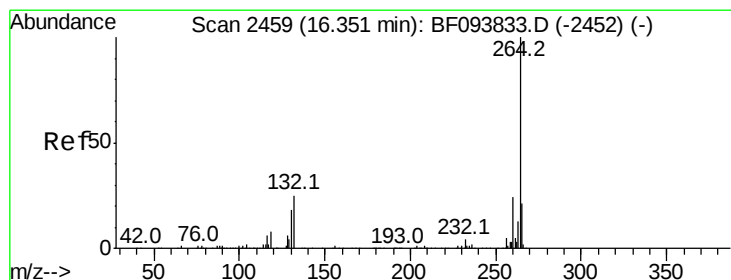
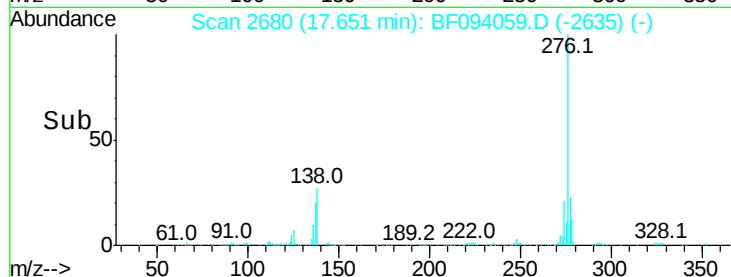
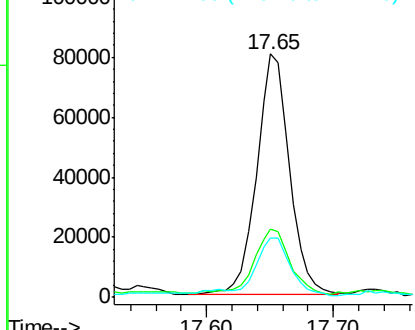
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.22 ng
 RT: 17.65 min Scan# 2680
 Delta R.T. -0.04 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:276 Resp: 144313
 Ion Ratio Lower Upper
 276 100
 138 29.8 27.8 41.6
 277 24.4 20.2 30.4

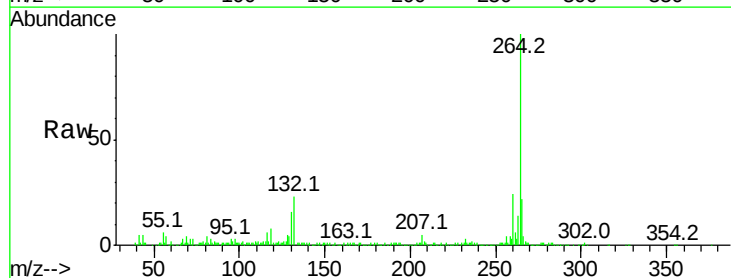


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

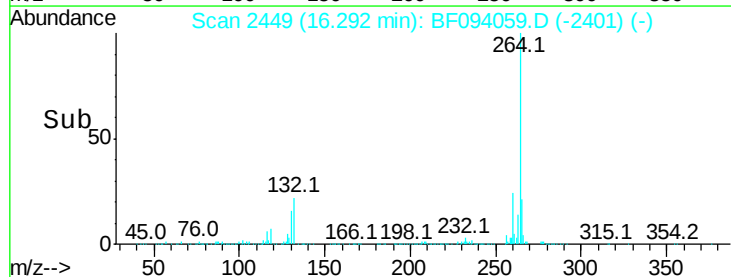
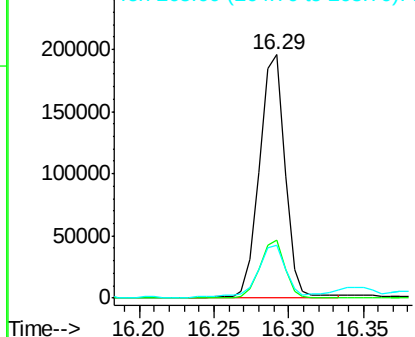


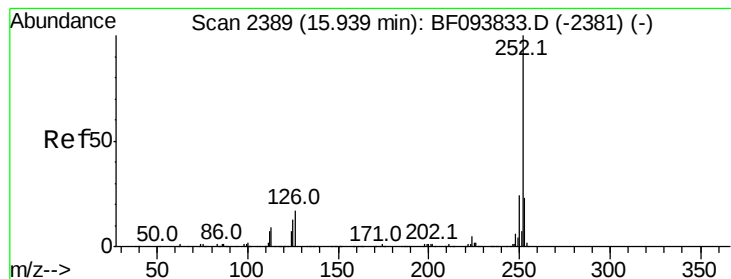
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.29 min Scan# 2449
 Delta R.T. -0.02 min
 Lab File: BF094059.D
 Acq: 30 Mar 2017 13:18

Tgt Ion:264 Resp: 232506
 Ion Ratio Lower Upper
 264 100
 260 23.7 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: 38.19 ng

RT: 15.88 min Scan# 2379

Delta R.T. -0.02 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Instrument :

BNA_F

ClientSampleId :

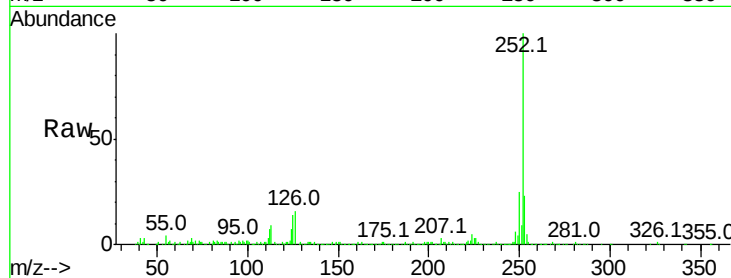
Tot Ion:252 Resp: 544300

Ion Ratio Lower Upper

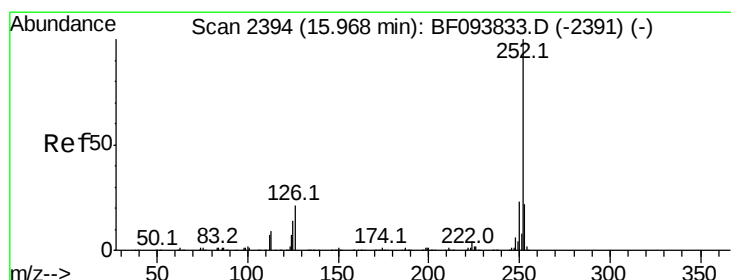
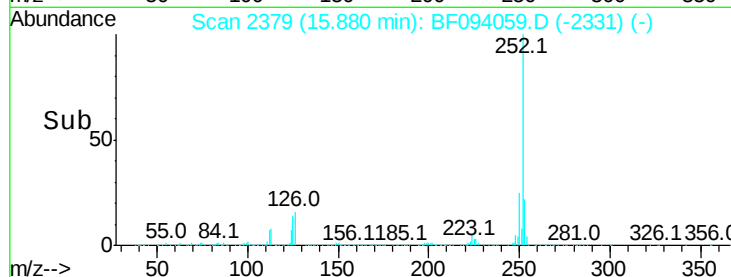
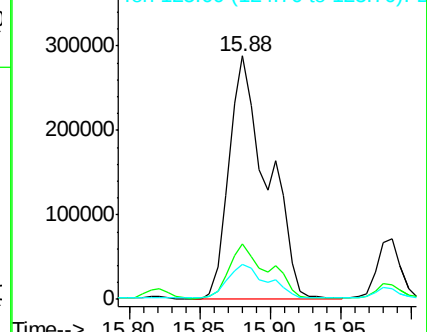
252 100

253 22.8 18.1 27.1

125 14.1 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: 39.03 ng

RT: 15.88 min Scan# 2379

Delta R.T. -0.05 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

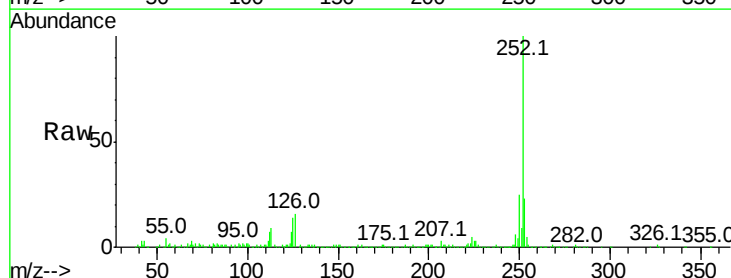
Tgt Ion:252 Resp: 544300

Ion Ratio Lower Upper

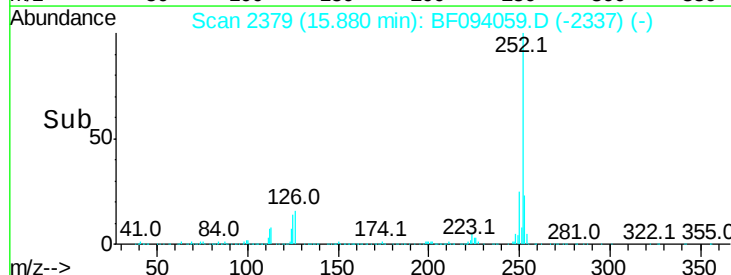
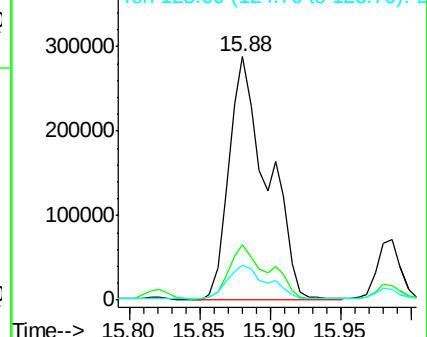
252 100

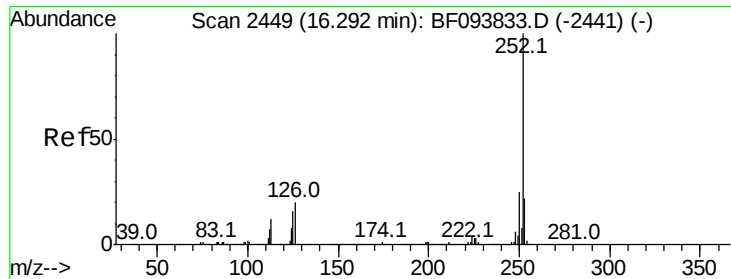
253 22.8 18.4 27.6

125 14.1 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: 19.07 ng

RT: 16.23 min Scan# 2438

Delta R.T. -0.02 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Instrument :

BNA_F

ClientSampleId :

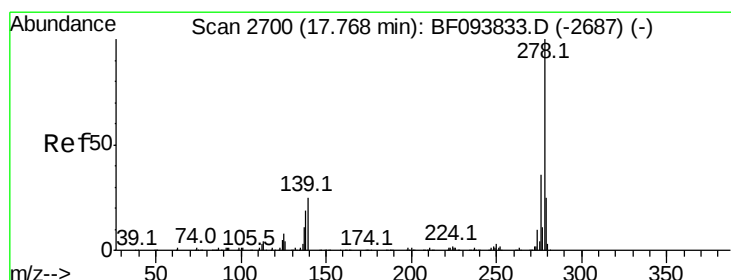
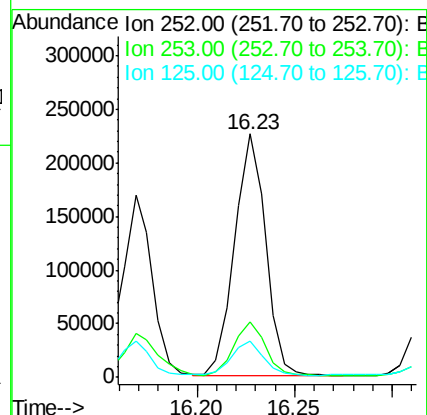
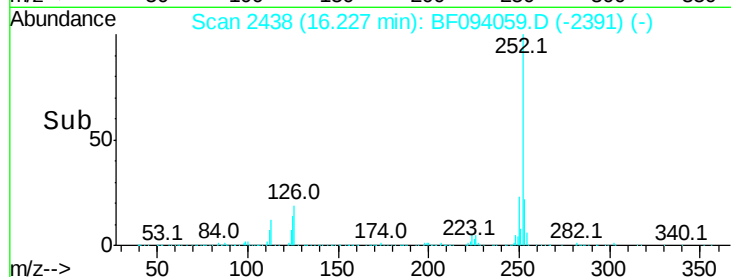
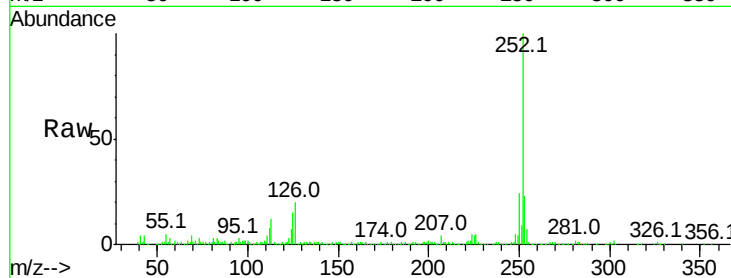
Tot Ion:252 Resp: 250332

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 14.7 11.0 16.4



#90

Dibenzo(a,h)anthracene

Concen: 3.58 ng

RT: 17.67 min Scan# 2683

Delta R.T. -0.04 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

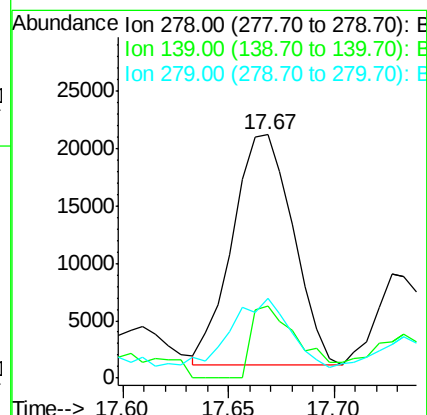
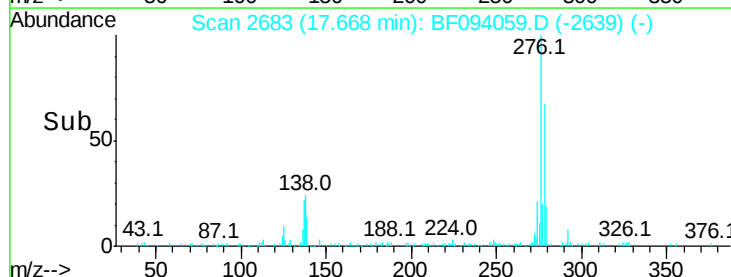
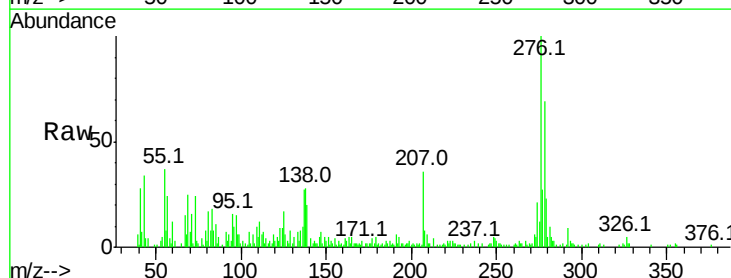
Tgt Ion:278 Resp: 39806

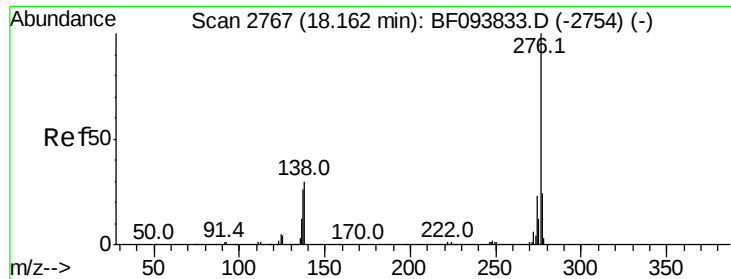
Ion Ratio Lower Upper

278 100

139 29.5 16.6 24.8#

279 33.0 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 10.91 ng

RT: 18.06 min Scan# 2749

Delta R.T. -0.04 min

Lab File: BF094059.D

Acq: 30 Mar 2017 13:18

Instrument :

BNA_F

ClientSampleId :

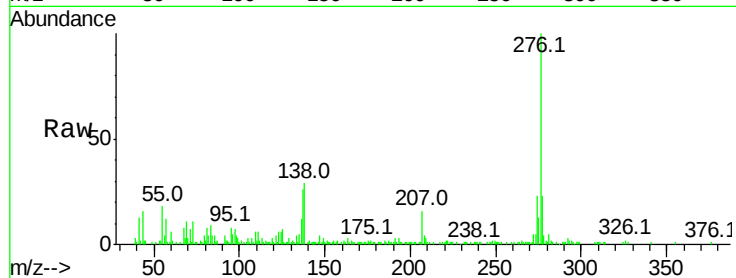
Tot Ion:276 Resp: 122256

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 29.3 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

