

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011017\
 Data File : BF092180.D
 Acq On : 10 Jan 2017 14:27
 Operator : UM/SJ
 Sample : I1045-05RE 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 10 15:29:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 06 15:43:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	163807	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	668503	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	302901	20.00	ng	-0.01
63) Phenanthrene-d10	11.16	188	445882	20.00	ng	0.00
75) Chrysene-d12	13.80	240	243921	20.00	ng	0.01
86) Perylene-d12	15.18	264	196159	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	337056	34.36	ng	0.00
7) Phenol-d6	6.30	99	433964	36.23	ng	-0.01
23) Nitrobenzene-d5	7.20	82	240374	19.99	ng	-0.01
41) 2,4,6-Tribromophenol	10.46	330	59707	23.82	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	426567	18.81	ng	-0.01
78) Terphenyl-d14	12.73	244	327033	32.52	ng	-0.01

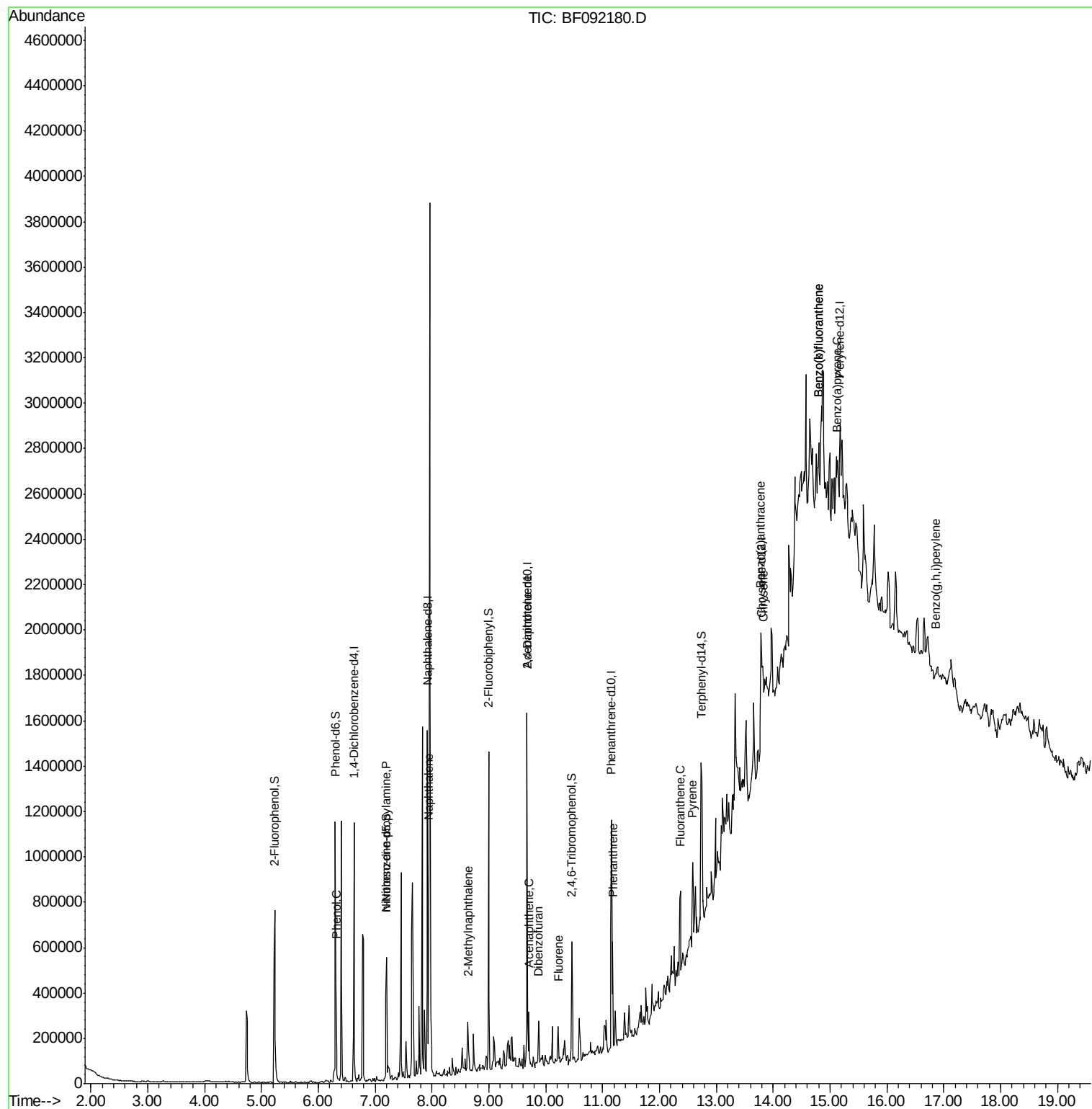
Target Compounds				Qvalue		
9) Benzaldehyde	6.17	77	252	Below Cal	#	1
10) Phenol	6.31	94	29449	2.16	ng	95
19) n-Nitroso-di-n-propylamine	7.20	70	37070	4.65	ng	# 73
31) Naphthalene	7.94	128	71091	2.32	ng	96
37) 2-Methylnaphthalene	8.63	142	70529	2.51	ng	99
51) Acenaphthene	9.70	154	52287	3.05	ng	99
54) Dibenzofuran	9.88	168	46962	2.03	ng	95
56) 2,4-Dinitrotoluene	9.67	165	42720	8.03	ng	# 20
57) Fluorene	10.22	166	45825	2.72	ng	97
70) Phenanthrene	11.18	178	206182	8.53	ng	97
73) Di-n-butylphthalate	11.73	149	5358	Below Cal	#	82
74) Fluoranthene	12.37	202	217438	7.02	ng	93
76) Benzydine	12.52	184	1757	Below Cal	#	1
77) Pyrene	12.59	202	181306	10.13	ng	96
80) Benzo(a)anthracene	13.79	228	67851	4.93	ng	# 82
82) Chrysene	13.82	228	80872	5.86	ng	# 90
87) Benzo(b)fluoranthene	14.80	252	83974	6.88	ng	# 28
88) Benzo(k)fluoranthene	14.80	252	81514	7.83	ng	# 29
89) Benzo(a)pyrene	15.12	252	40653	3.75	ng	# 25
91) Benzo(a,h,i)perylene	16.86	276	20807	2.25	ng	# 39

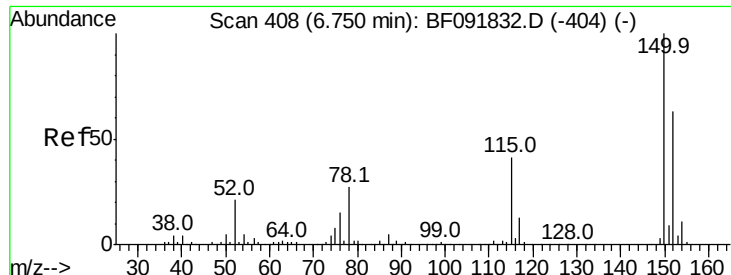
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 415

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :
BNA_F
ClientSampleId :

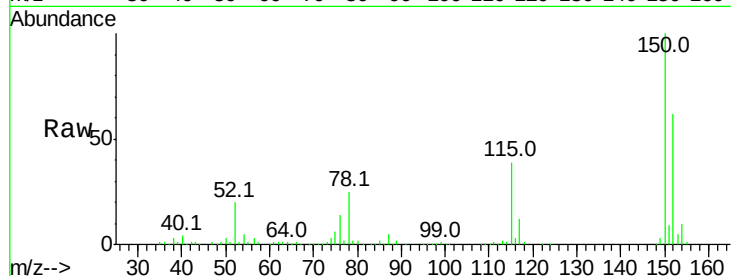
Tot Ion:152 Resp: 163807

Ion Ratio Lower Upper

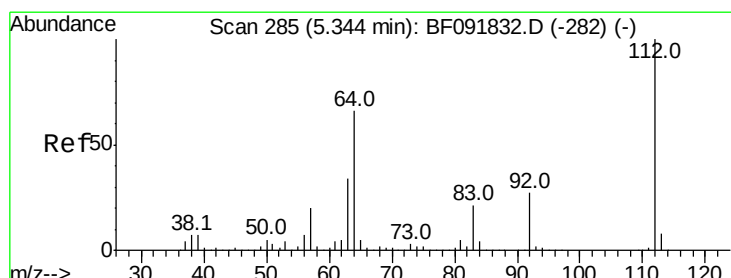
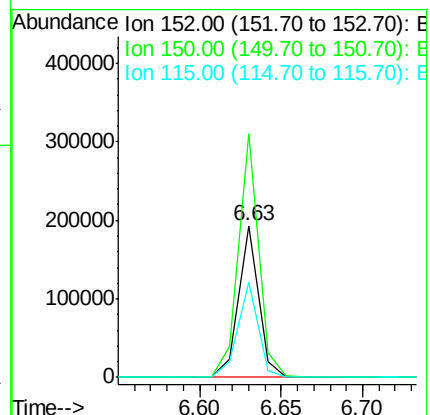
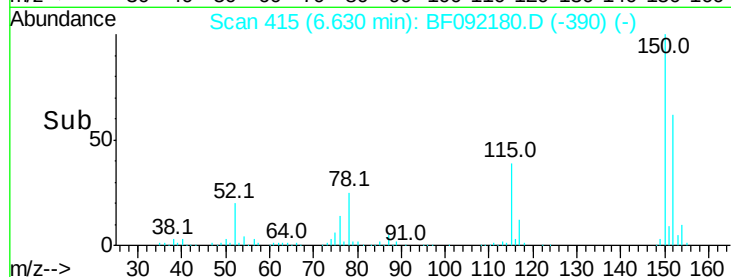
152 100

150 160.5 124.9 187.3

115 62.6 46.0 69.0



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



#5

2-Fluorophenol

Concen: 34.36 ng

RT: 5.24 min Scan# 293

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

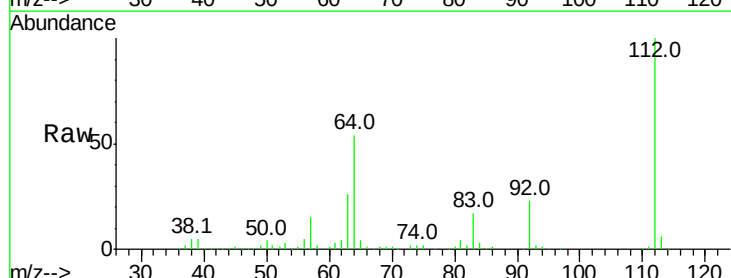
Tgt Ion:112 Resp: 337056

Ion Ratio Lower Upper

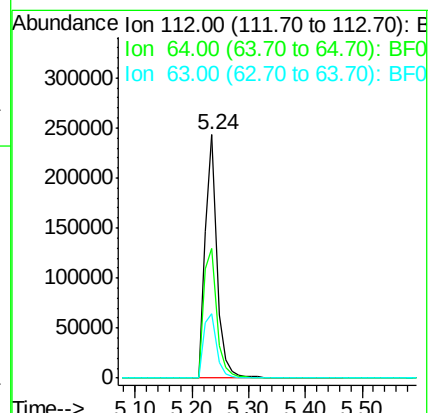
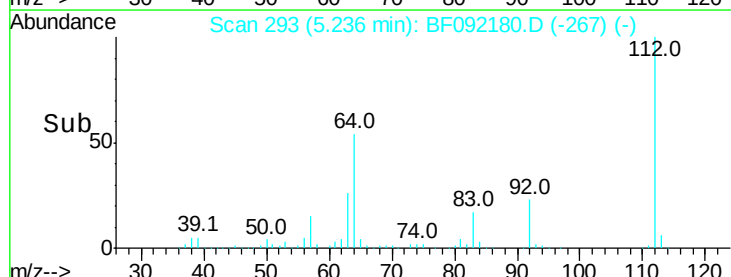
112 100

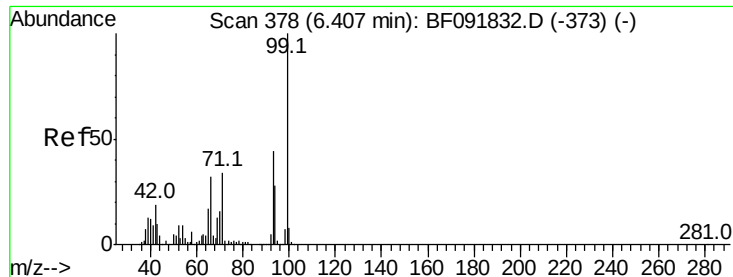
64 53.5 46.1 69.1

63 26.2 23.8 35.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 36.23 ng

RT: 6.30 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampled :

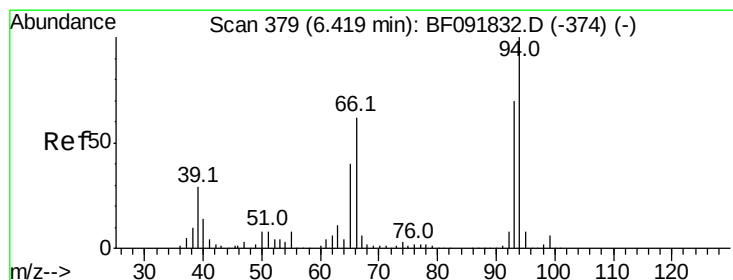
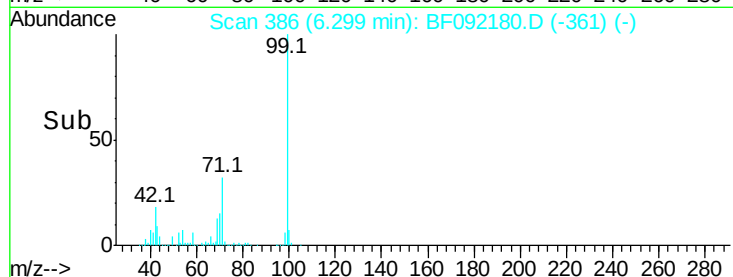
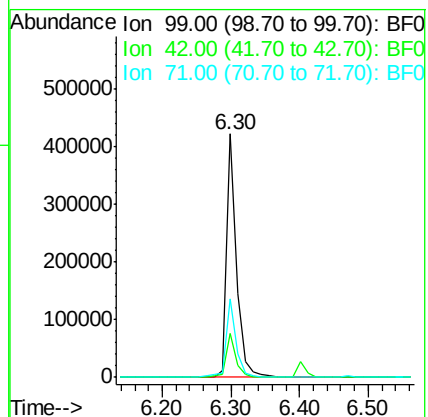
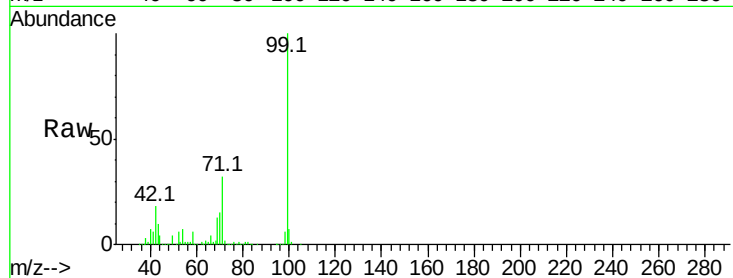
Tot Ion: 99 Resp: 433964

Ion Ratio Lower Upper

99 100

42 18.3 15.6 23.4

71 32.2 27.5 41.3



#10

Phenol

Concen: 2.16 ng

RT: 6.31 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

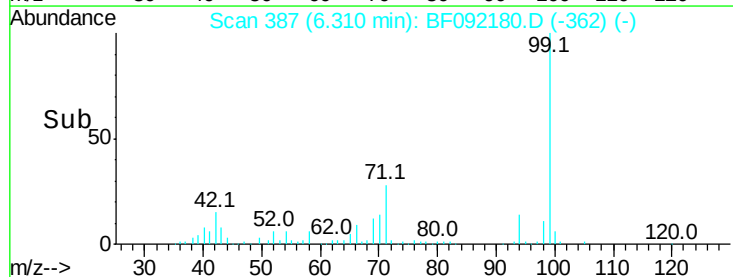
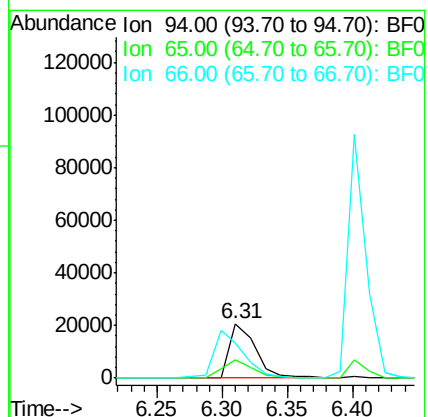
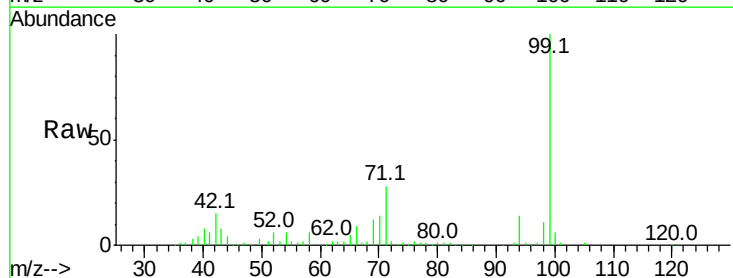
Tgt Ion: 94 Resp: 29449

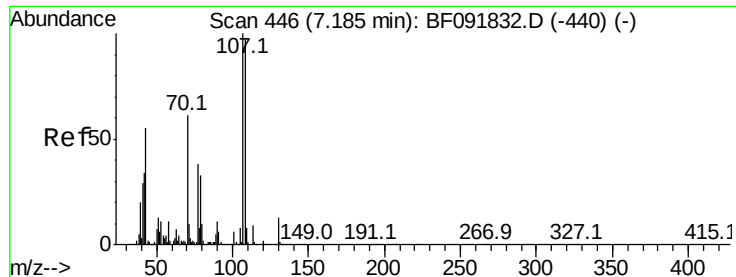
Ion Ratio Lower Upper

94 100

65 34.2 21.4 61.4

66 65.0 44.0 84.0





#19

n-Nitroso-di-n-propylamine

Concen: 4.65 ng

RT: 7.20 min Scan# 465

Delta R.T. 0.13 min

Lab File: BF092180.D

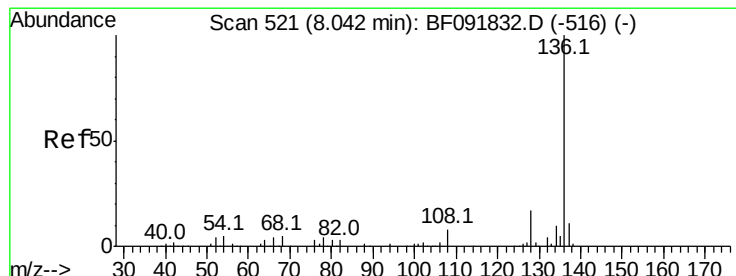
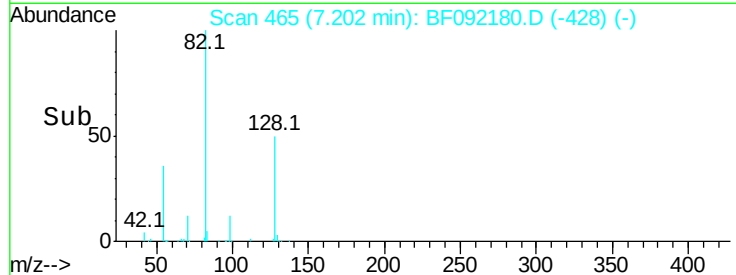
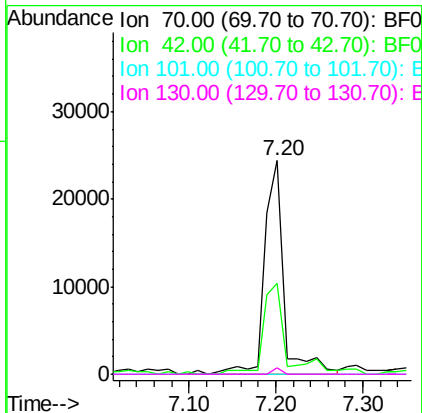
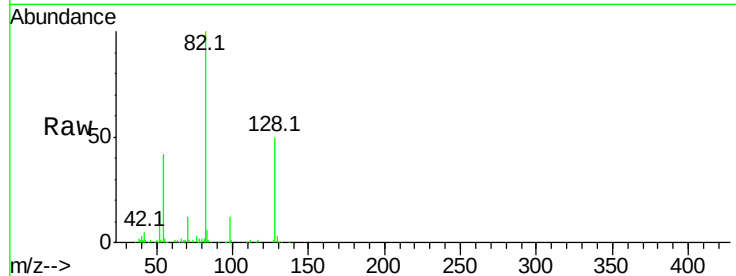
Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	70	Resp:	37070
Ion	Ratio	Lower	Upper
70	100		
42	42.4	49.4	74.0#
101	0.0	7.4	11.2#
130	3.0	14.2	21.4#



#21

Naphthalene-d8

Concen: 20.00 ng

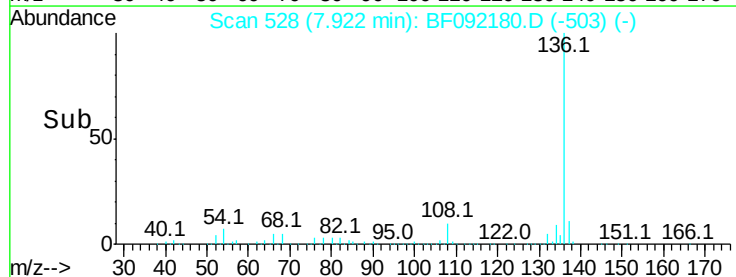
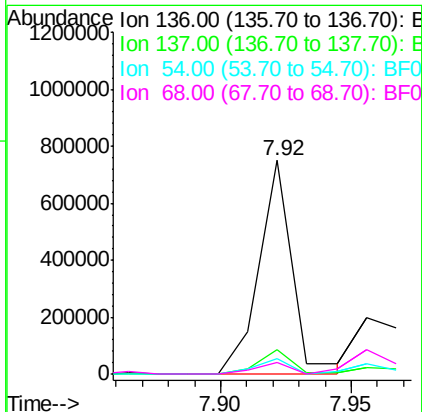
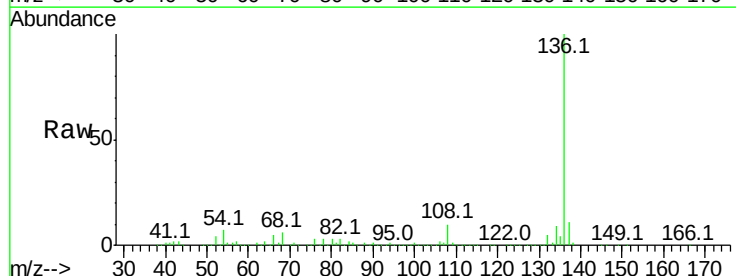
RT: 7.92 min Scan# 528

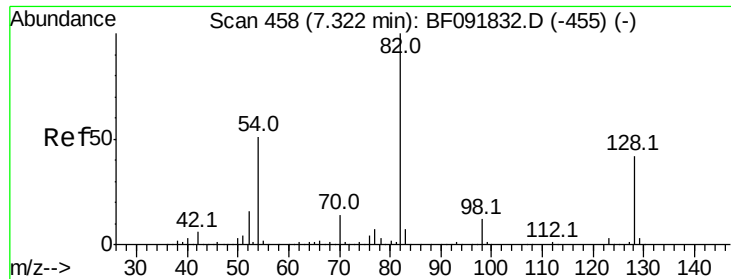
Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Tgt Ion:	136	Resp:	668503
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	7.0	4.5	6.7#
68	5.7	3.6	5.4#





#23

Nitrobenzene-d5

Concen: 19.99 ng

RT: 7.20 min Scan# 465

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

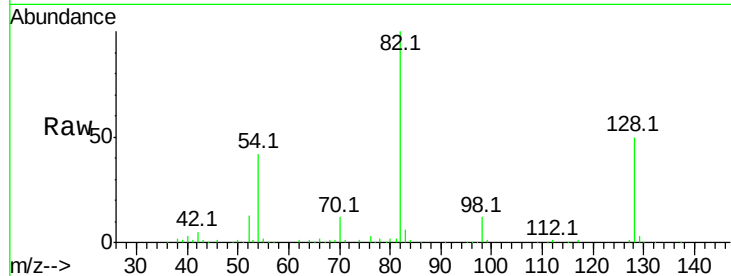
Tot Ion: 82 Resp: 240374

Ion Ratio Lower Upper

82 100

128 49.8 34.6 52.0

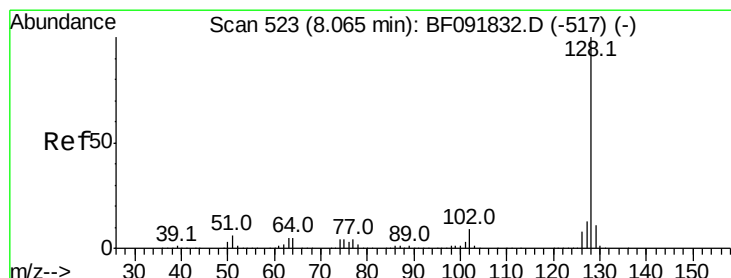
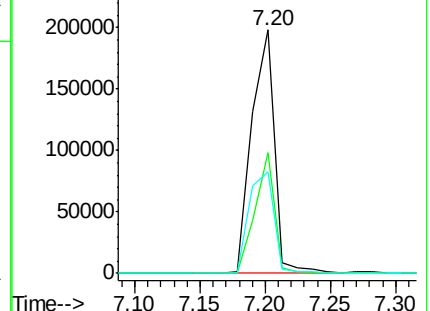
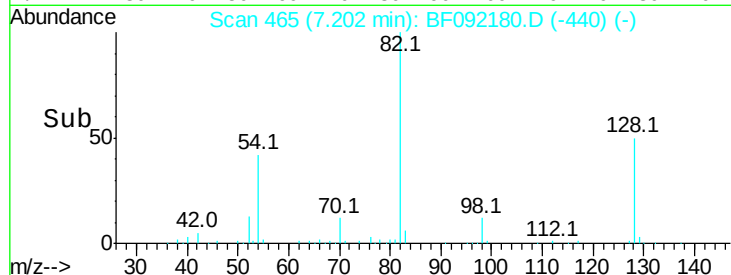
54 41.6 39.5 59.3



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



#31

Naphthalene

Concen: 2.32 ng

RT: 7.94 min Scan# 530

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

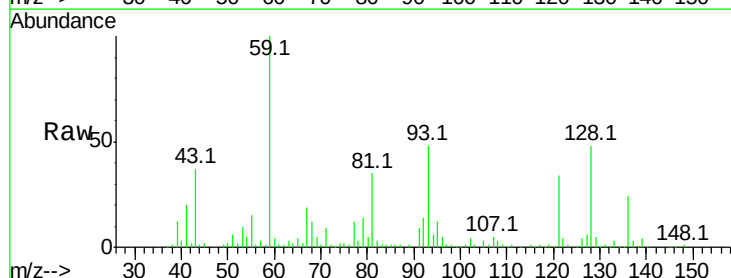
Tgt Ion:128 Resp: 71091

Ion Ratio Lower Upper

128 100

129 10.8 9.5 14.3

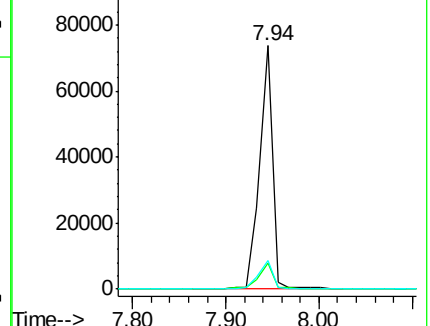
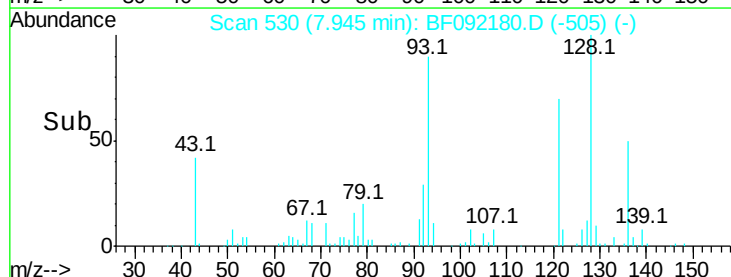
127 11.9 10.8 16.2

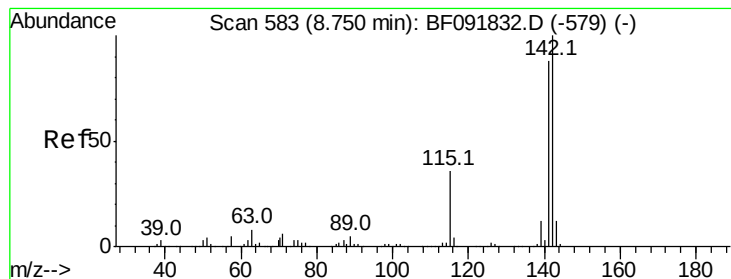


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 2.51 ng

RT: 8.63 min Scan# 590

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

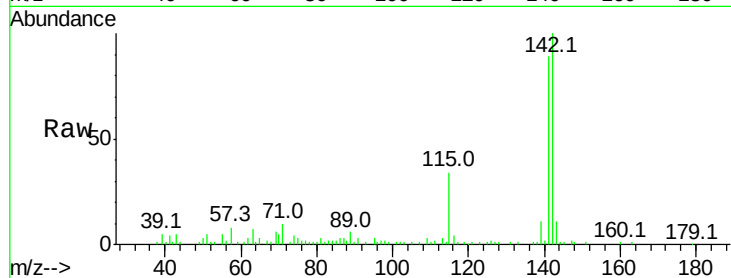
Tot Ion:142 Resp: 70529

Ion Ratio Lower Upper

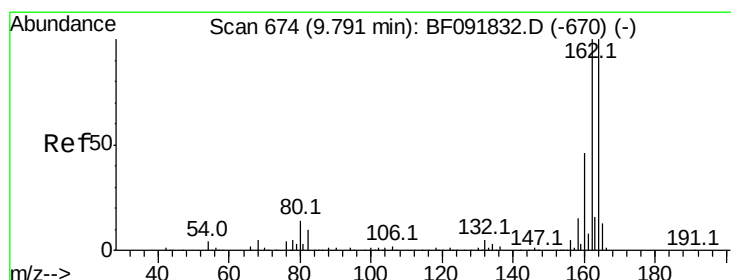
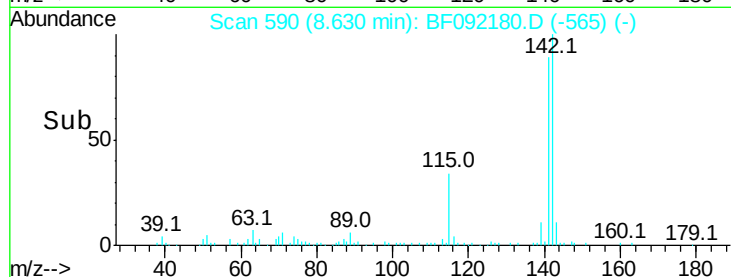
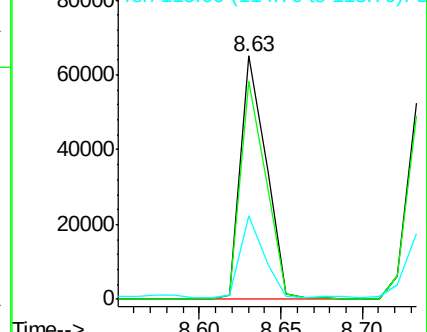
142 100

141 89.3 71.0 106.6

115 34.1 28.3 42.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

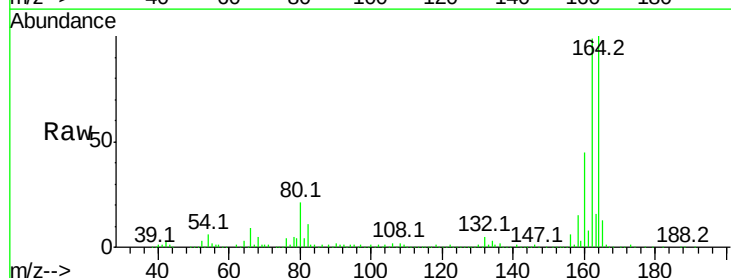
Tgt Ion:164 Resp: 302901

Ion Ratio Lower Upper

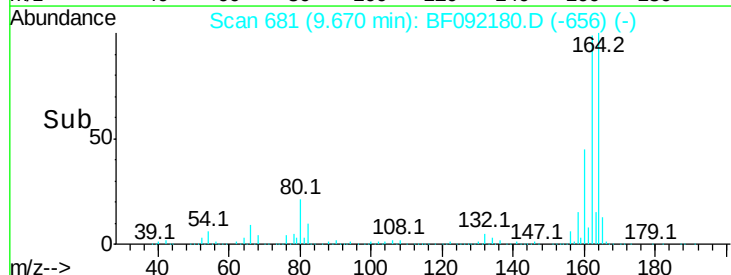
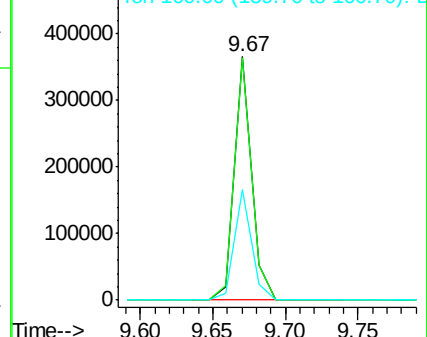
164 100

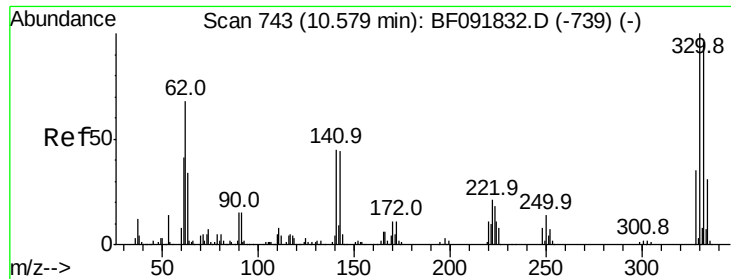
162 99.5 80.2 120.2

160 45.1 36.9 55.3



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

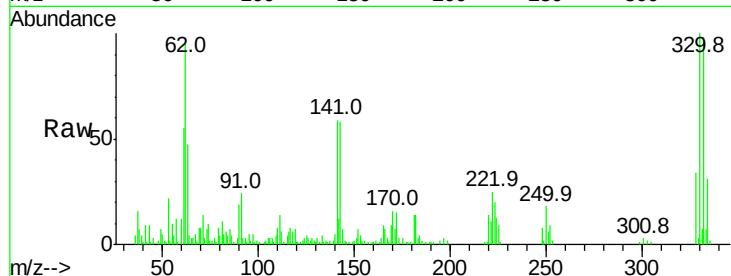




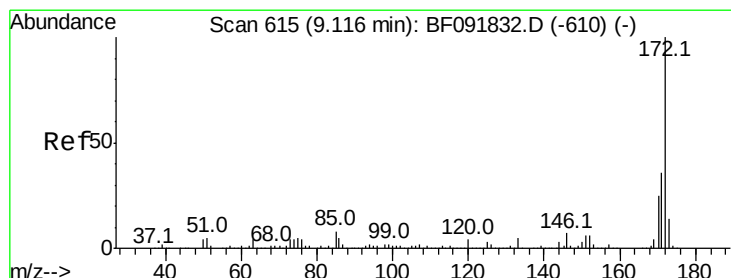
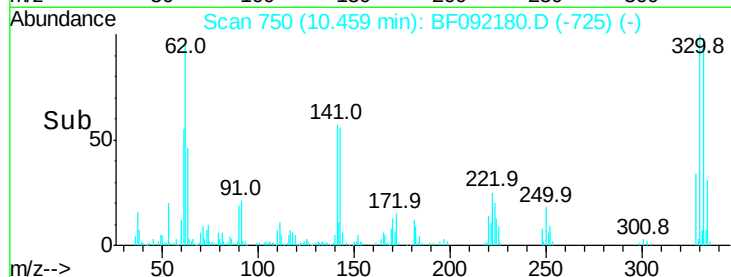
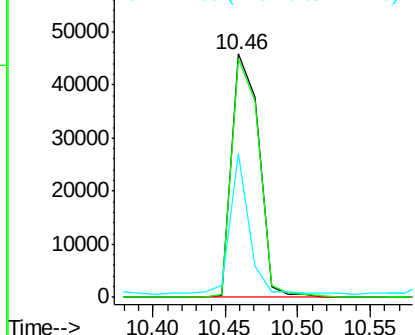
#41
 2,4,6-Tribromophenol
 Concen: 23.82 ng
 RT: 10.46 min Scan# 750
 Delta R.T. -0.01 min
 Lab File: BF092180.D
 Acq: 10 Jan 2017 14:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 59707
 Ion Ratio Lower Upper
 330 100
 332 98.9 77.4 116.2
 141 40.7 34.1 51.1

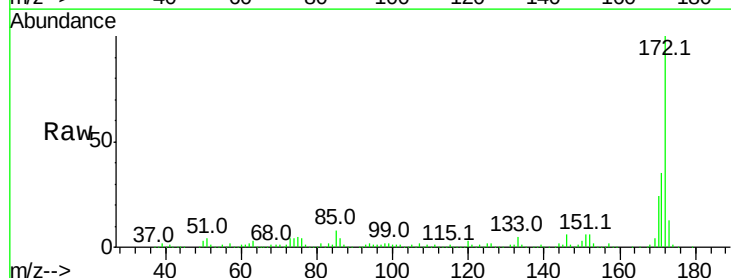


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

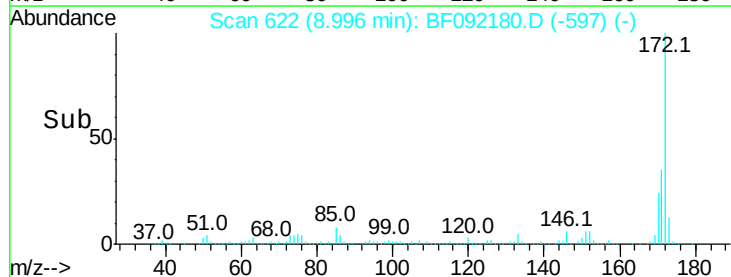
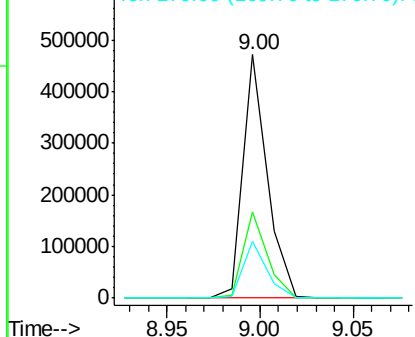


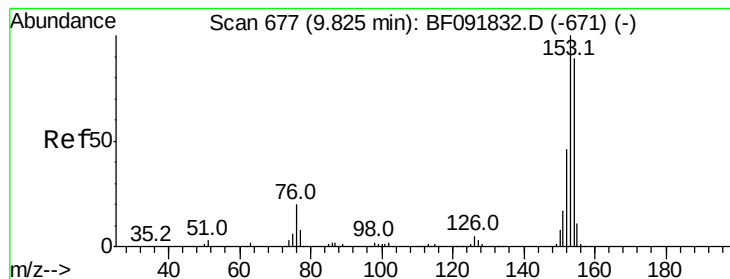
#44
 2-Fluorobiphenyl
 Concen: 18.81 ng
 RT: 9.00 min Scan# 622
 Delta R.T. -0.01 min
 Lab File: BF092180.D
 Acq: 10 Jan 2017 14:27

Tgt Ion:172 Resp: 426567
 Ion Ratio Lower Upper
 172 100
 171 35.2 29.4 44.0
 170 23.6 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 3.05 ng

RT: 9.70 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

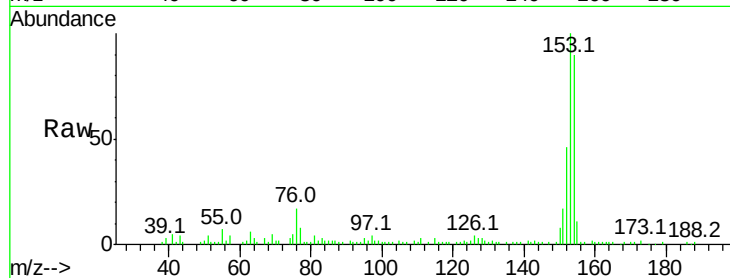
Tot Ion:154 Resp: 52287

Ion Ratio Lower Upper

154 100

153 110.9 88.6 133.0

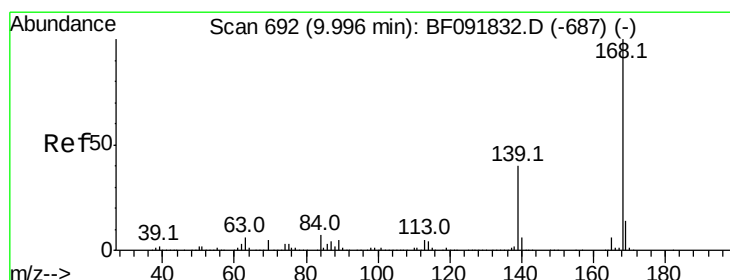
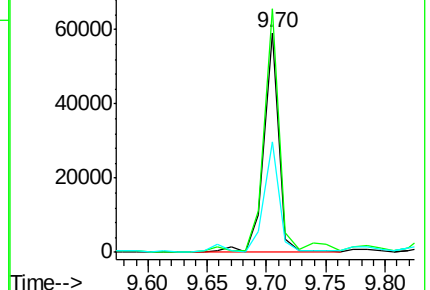
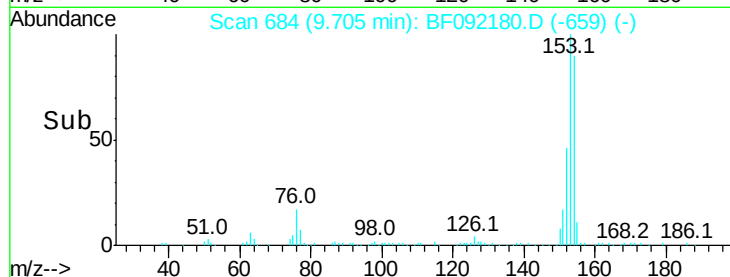
152 50.6 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.03 ng

RT: 9.88 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

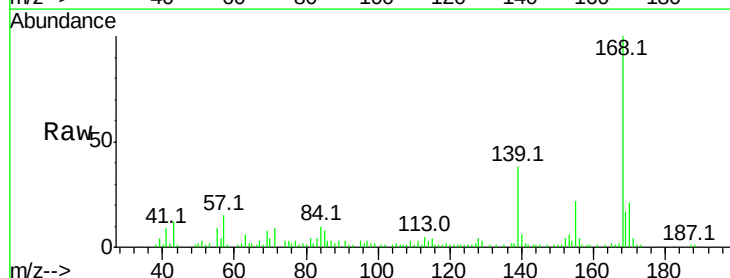
Tgt Ion:168 Resp: 46962

Ion Ratio Lower Upper

168 100

139 38.4 32.6 49.0

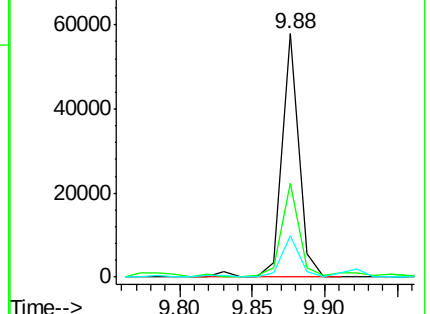
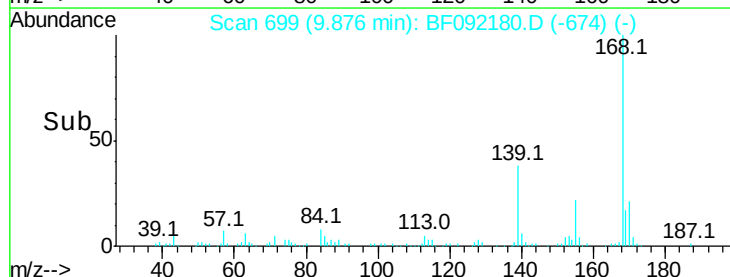
169 16.9 11.3 16.9

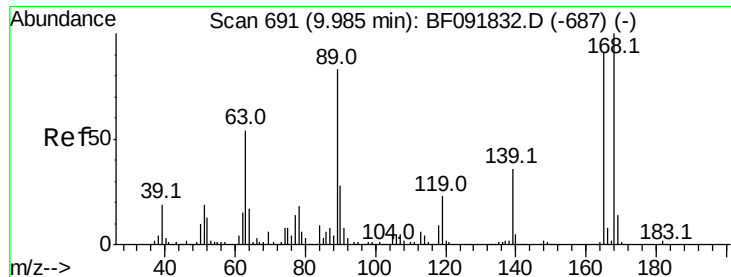


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

2,4-Dinitrotoluene

Concen: 8.03 ng

RT: 9.67 min Scan# 681

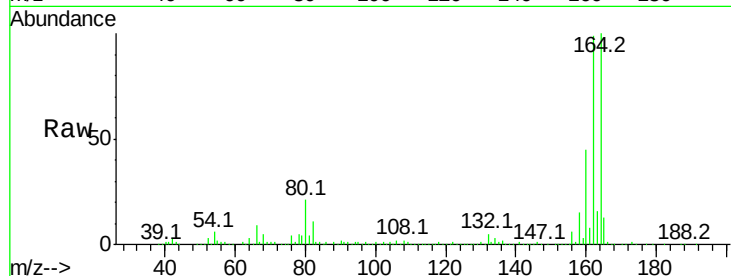
Delta R.T. -0.22 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	165	Resp:	42720
Ion	Ratio	Lower	Upper
165	100		
63	1.0	40.2	60.4#
89	1.2	62.5	93.7#
182	1.4	1.8	2.8#

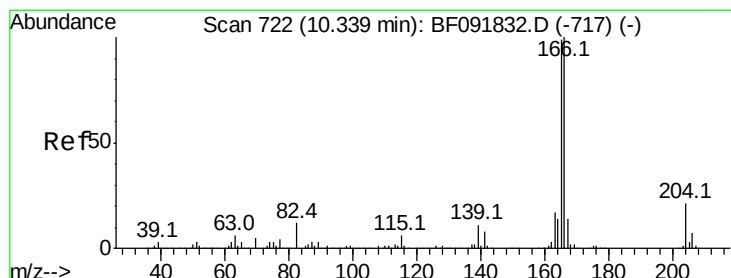
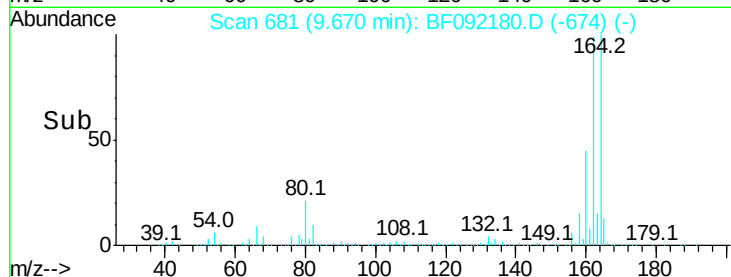
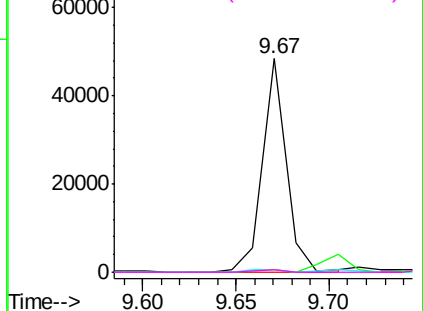


Abundance Ion 165.00 (164.70 to 165.70): E

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



#57

Fluorene

Concen: 2.72 ng

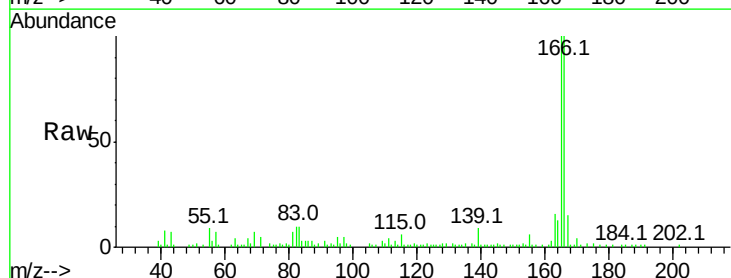
RT: 10.22 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

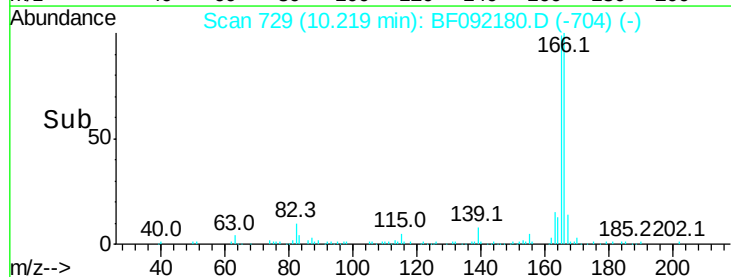
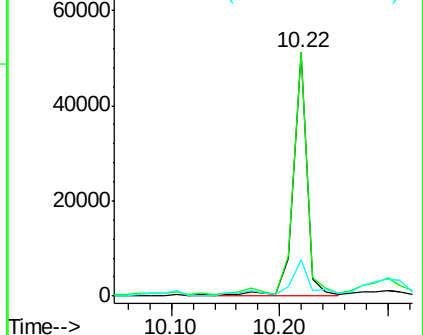
Tgt Ion:	166	Resp:	45825
Ion	Ratio	Lower	Upper
166	100		
165	99.8	77.8	116.8
167	14.8	10.8	16.2

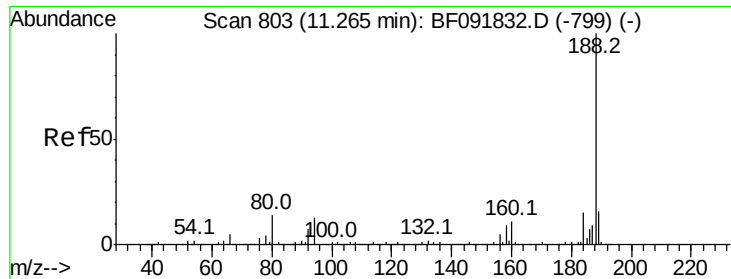


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.16 min Scan# 811

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

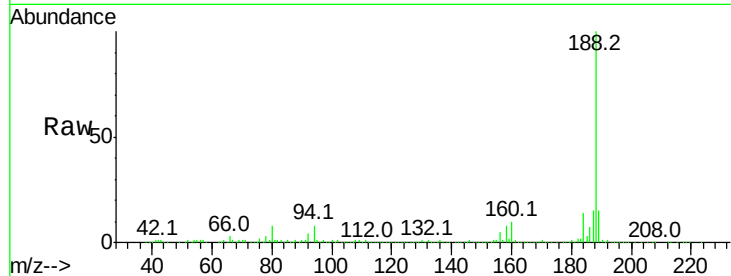
Tot Ion:188 Resp: 445882

Ion Ratio Lower Upper

188 100

94 7.5 10.0 15.0#

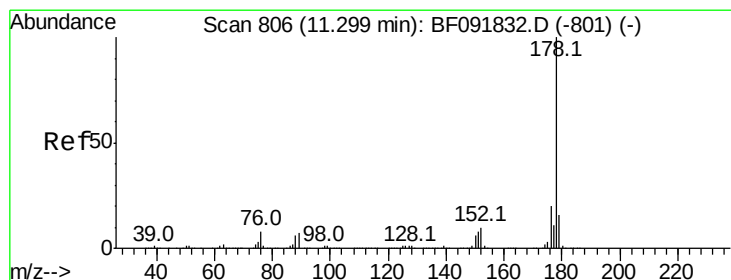
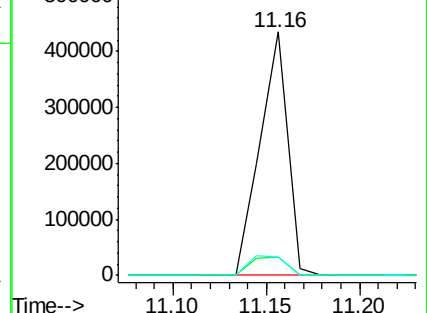
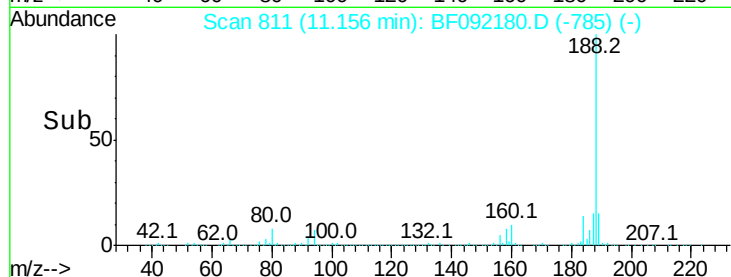
80 7.8 11.2 16.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 8.53 ng

RT: 11.18 min Scan# 813

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

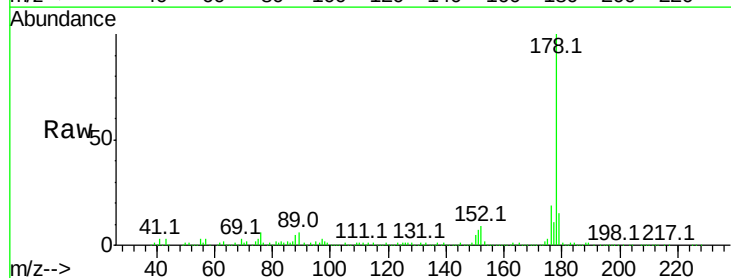
Tgt Ion:178 Resp: 206182

Ion Ratio Lower Upper

178 100

176 18.6 16.6 25.0

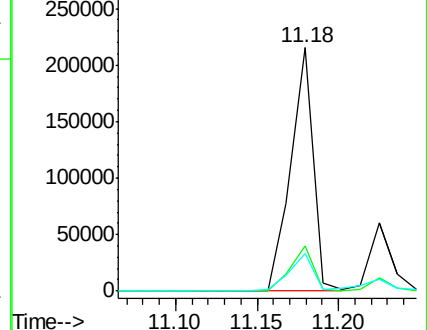
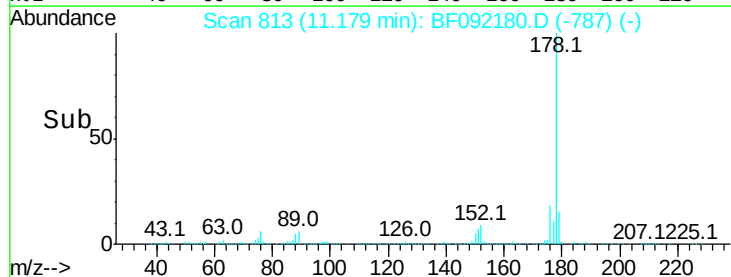
179 15.3 12.8 19.2

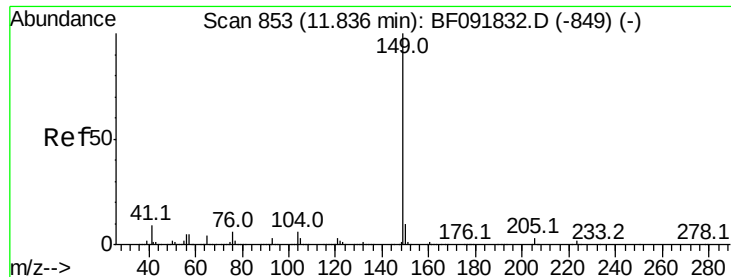


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.73 min Scan# 861

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

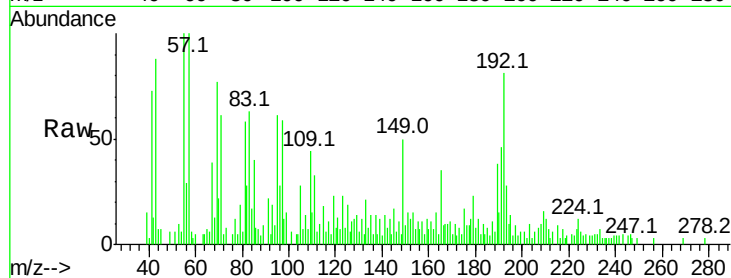
Tot Ion:149 Resp: 5358

Ion Ratio Lower Upper

149 100

150 17.3 8.1 12.1#

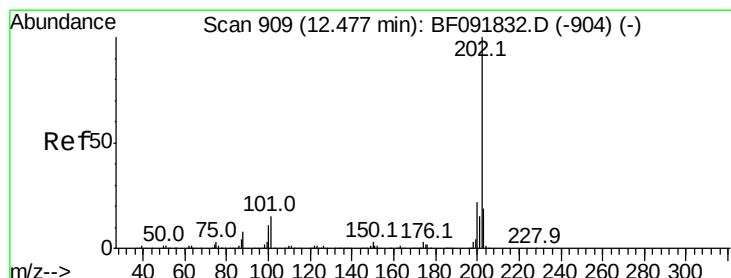
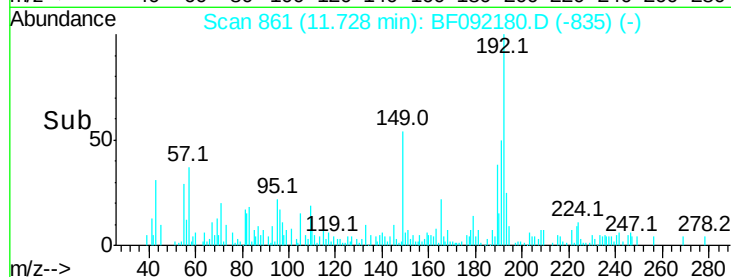
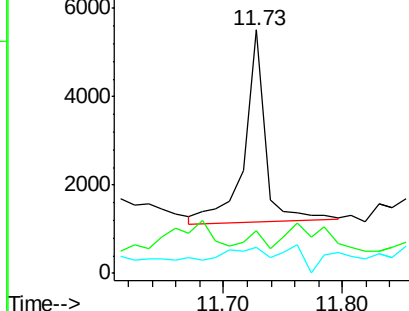
104 10.9 4.6 7.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 7.02 ng

RT: 12.37 min Scan# 917

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

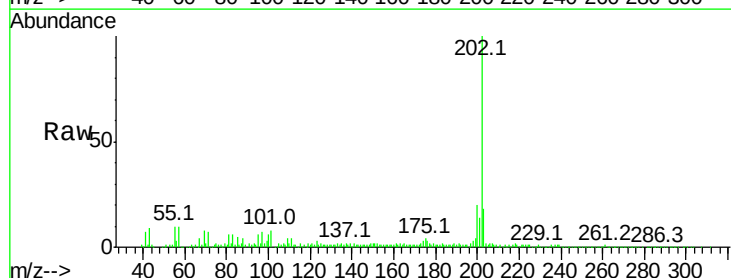
Tgt Ion:202 Resp: 217438

Ion Ratio Lower Upper

202 100

101 8.1 0.0 34.6

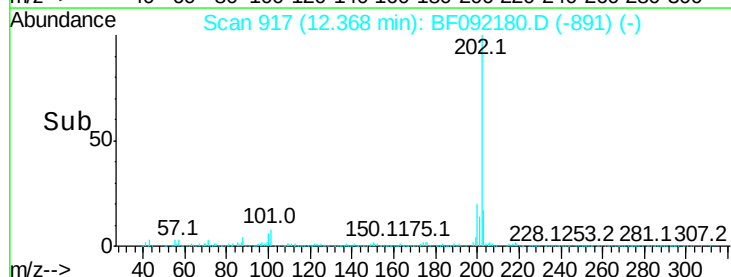
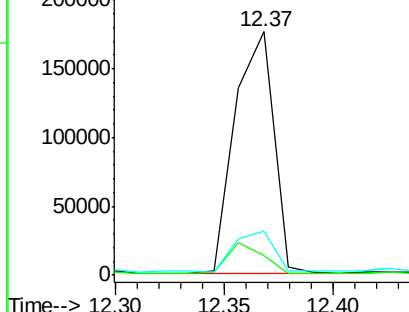
203 18.3 0.0 38.7

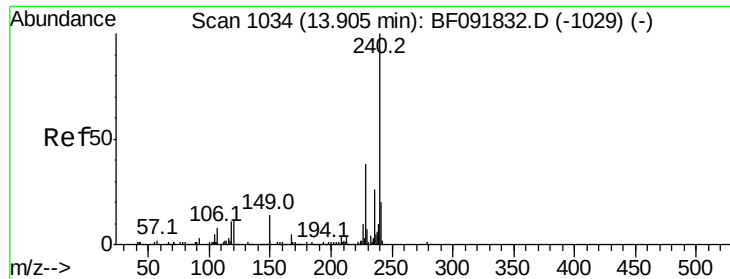


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.80 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

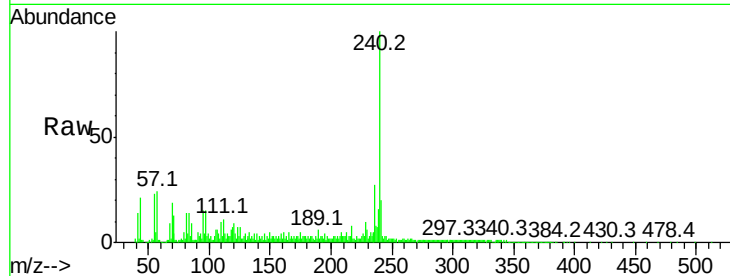
Tot Ion:240 Resp: 243921

Ion Ratio Lower Upper

240 100

120 9.3 12.9 19.3#

236 26.5 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

250000

200000

150000

100000

50000

0

13.80

13.75

13.70

13.65

13.60

13.55

13.50

13.45

13.40

13.35

13.30

13.25

13.20

13.15

13.10

13.05

13.00

12.95

12.90

12.85

12.80

12.75

12.70

12.65

12.60

12.55

12.50

12.45

12.40

12.35

12.30

12.25

12.20

12.15

12.10

12.05

12.00

11.95

11.90

11.85

11.80

11.75

11.70

11.65

11.60

11.55

11.50

11.45

11.40

11.35

11.30

11.25

11.20

11.15

11.10

11.05

11.00

10.95

10.90

10.85

10.80

10.75

10.70

10.65

10.60

10.55

10.50

10.45

10.40

10.35

10.30

10.25

10.20

10.15

10.10

10.05

10.00

9.95

9.90

9.85

9.80

9.75

9.70

9.65

9.60

9.55

9.50

9.45

9.40

9.35

9.30

9.25

9.20

9.15

9.10

9.05

9.00

8.95

8.90

8.85

8.80

8.75

8.70

8.65

8.60

8.55

8.50

8.45

8.40

8.35

8.30

8.25

8.20

8.15

8.10

8.05

8.00

7.95

7.90

7.85

7.80

7.75

7.70

7.65

7.60

7.55

7.50

7.45

7.40

7.35

7.30

7.25

7.20

7.15

7.10

7.05

7.00

6.95

6.90

6.85

6.80

6.75

6.70

6.65

6.60

6.55

6.50

6.45

6.40

6.35

6.30

6.25

6.20

6.15

6.10

6.05

6.00

5.95

5.90

5.85

5.80

5.75

5.70

5.65

5.60

5.55

5.50

5.45

5.40

5.35

5.30

5.25

5.20

5.15

5.10

5.05

5.00

4.95

4.90

4.85

4.80

4.75

4.70

4.65

4.60

4.55

4.50

4.45

4.40

4.35

4.30

4.25

4.20

4.15

4.10

4.05

4.00

3.95

3.90

3.85

3.80

3.75

3.70

3.65

3.60

3.55

3.50

3.45

3.40

3.35

3.30

3.25

3.20

3.15

3.10

3.05

3.00

2.95

2.90

2.85

2.80

2.75

2.70

2.65

2.60

2.55

2.50

2.45

2.40

2.35

2.30

2.25

2.20

2.15

2.10

2.05

2.00

1.95

1.90

1.85

1.80

1.75

1.70

1.65

1.60

1.55

1.50

1.45

1.40

1.35

1.30

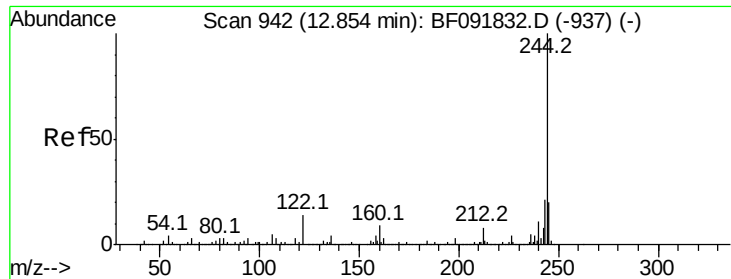
1.25

1.20

1.15

1.10

1.0



#78

Terphenyl-d14

Concen: 32.52 ng

RT: 12.73 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

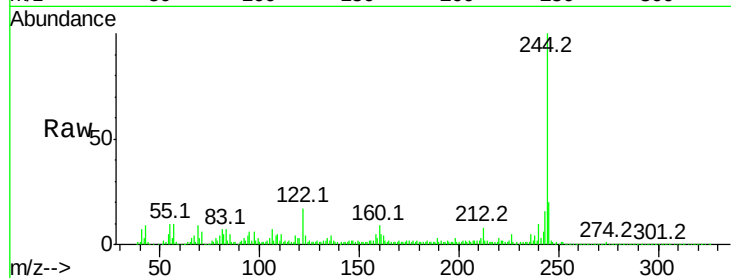
Tot Ion:244 Resp: 327033

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

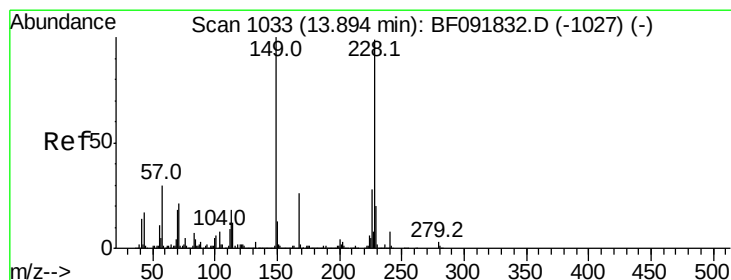
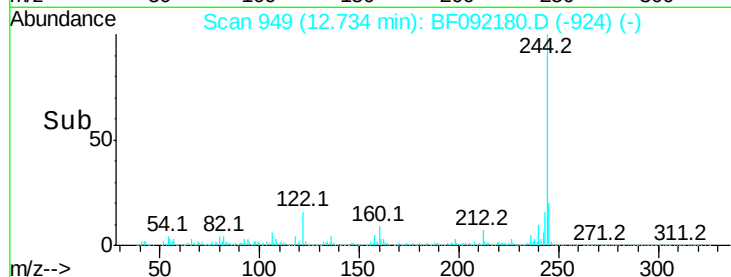
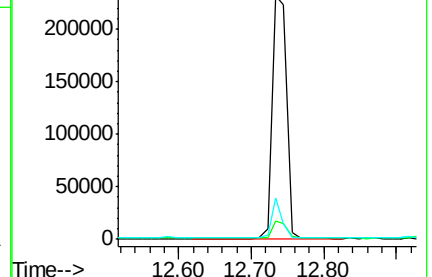
122 16.9 11.4 17.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 4.93 ng

RT: 13.79 min Scan# 1041

Delta R.T. 0.01 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

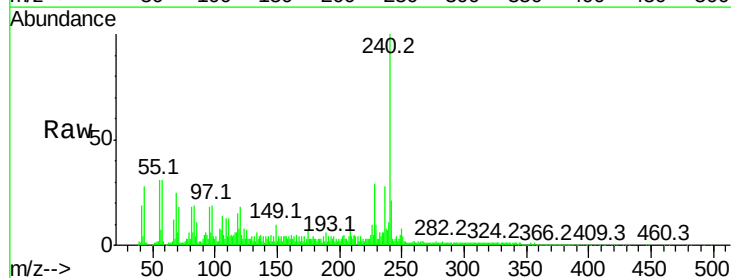
Tgt Ion:228 Resp: 67851

Ion Ratio Lower Upper

228 100

226 33.1 22.4 33.6

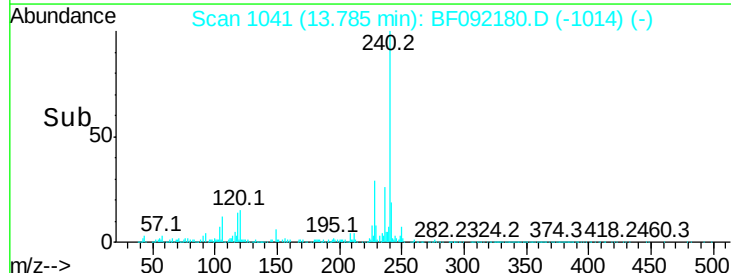
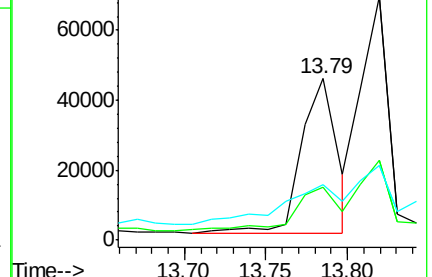
229 34.0 16.2 24.4#

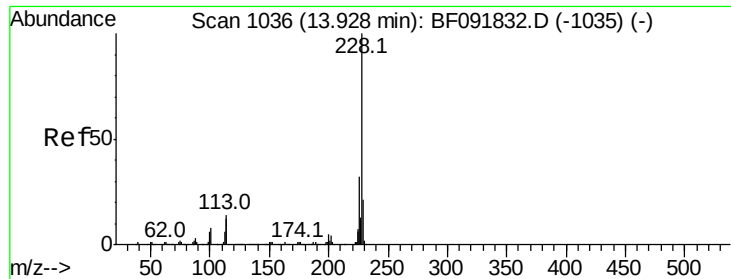


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

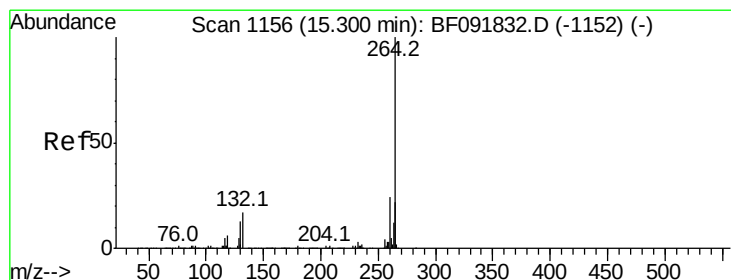
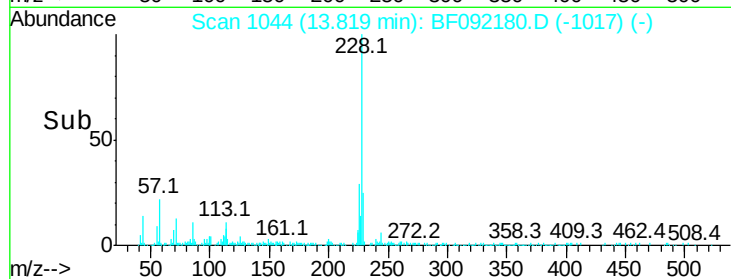
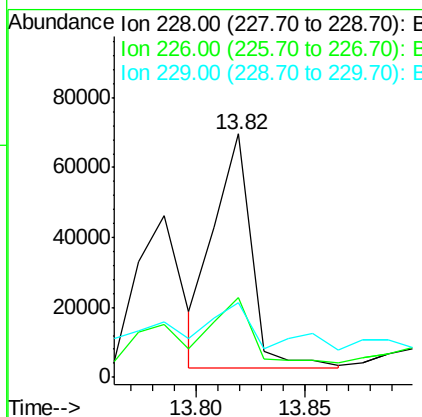
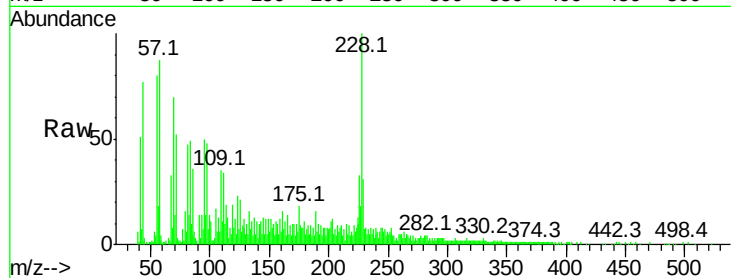




#82
Chrysene
Concen: 5.86 ng
RT: 13.82 min Scan# 1044
Delta R.T. 0.01 min
Lab File: BF092180.D
Acq: 10 Jan 2017 14:27

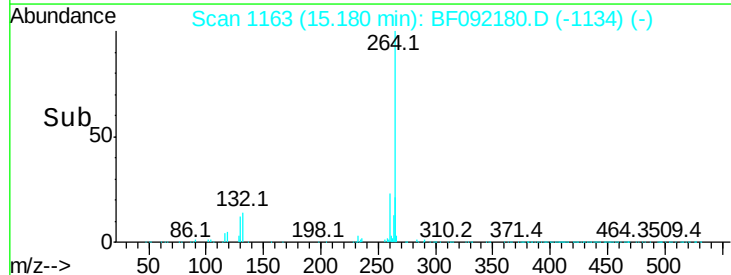
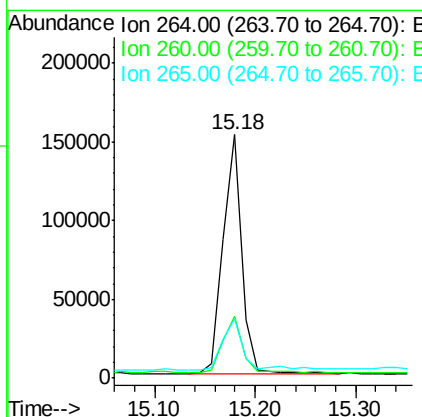
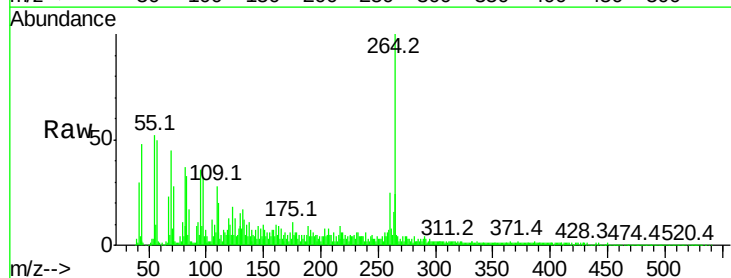
Instrument :
BNA_F
ClientSampled :

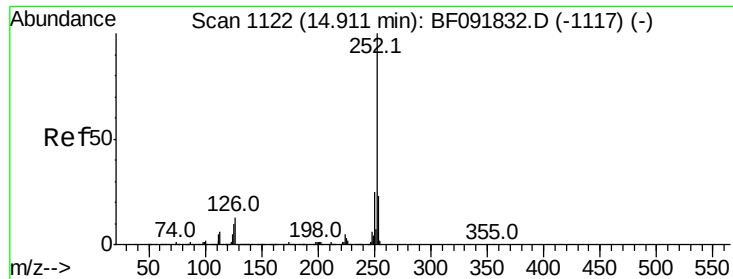
Tot Ion:228 Resp: 80872
Ion Ratio Lower Upper
228 100
226 32.5 25.4 38.0
229 30.8 16.2 24.2#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1163
Delta R.T. 0.03 min
Lab File: BF092180.D
Acq: 10 Jan 2017 14:27

Tgt Ion:264 Resp: 196159
Ion Ratio Lower Upper
264 100
260 25.3 19.2 28.8
265 24.4 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 6.88 ng

RT: 14.80 min Scan# 1130

Delta R.T. 0.02 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

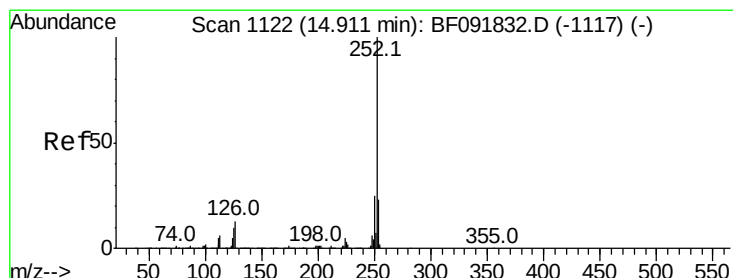
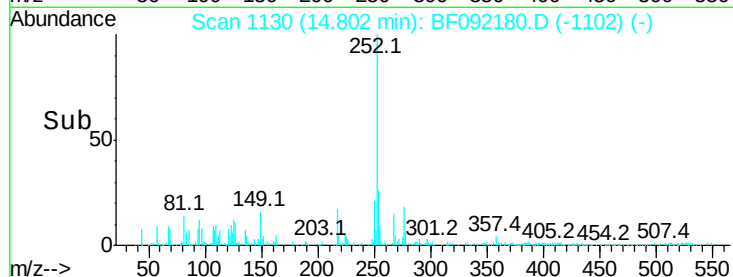
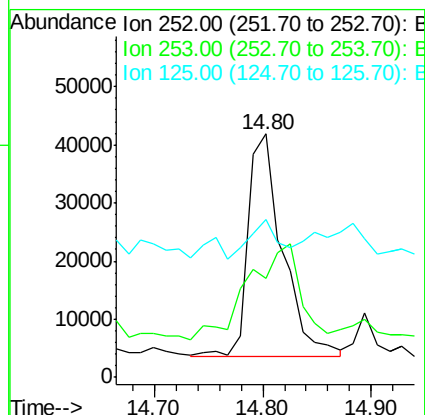
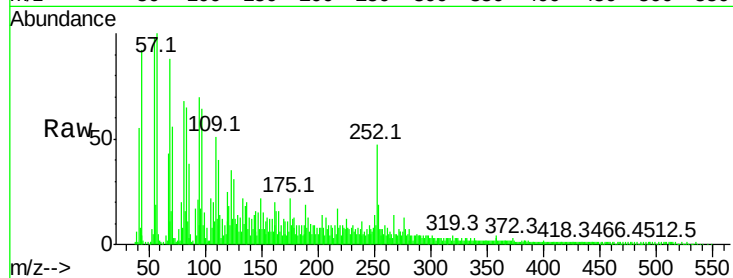
Tot Ion:252 Resp: 83974

Ion Ratio Lower Upper

252 100

253 40.9 18.2 27.4#

125 65.0 9.8 14.6#



#88

Benzo(k)fluoranthene

Concen: 7.83 ng

RT: 14.80 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

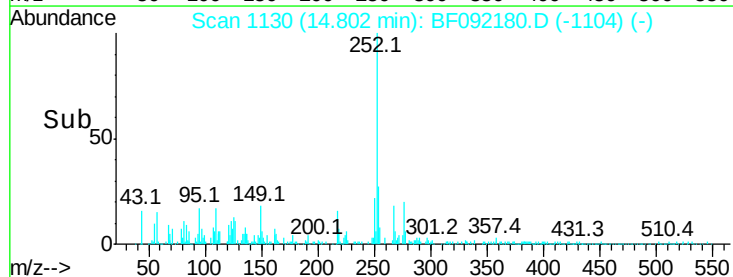
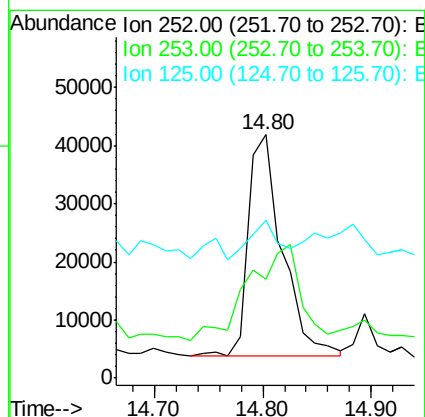
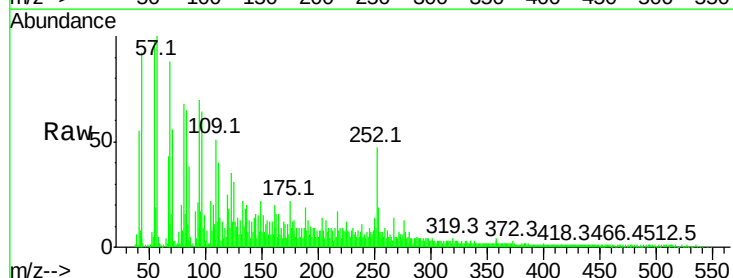
Tgt Ion:252 Resp: 81514

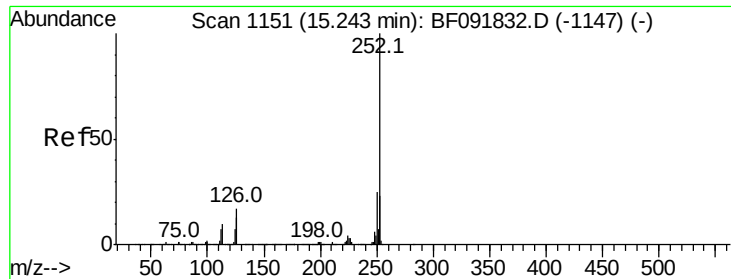
Ion Ratio Lower Upper

252 100

253 40.9 18.5 27.7#

125 65.0 8.9 13.3#





#89

Benzo(a)pyrene

Concen: 3.75 ng

RT: 15.12 min Scan# 1158

Delta R.T. 0.02 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Instrument :

BNA_F

ClientSampleId :

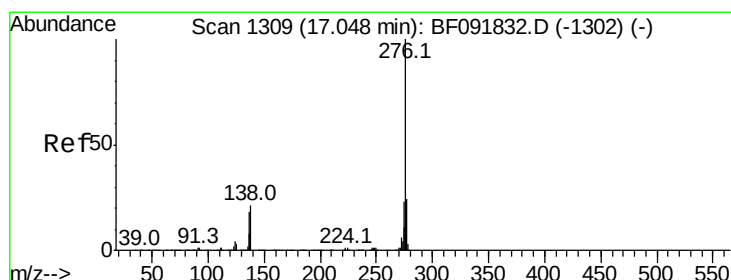
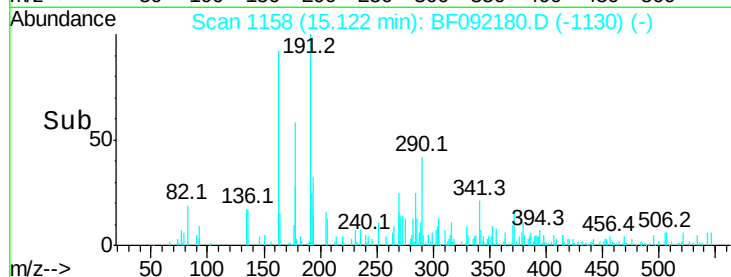
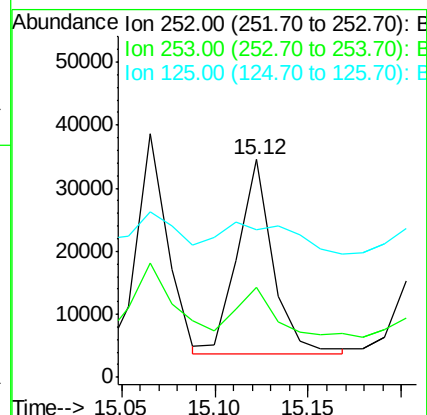
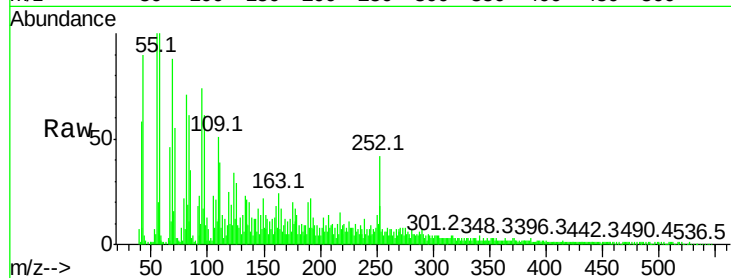
Tot Ion:252 Resp: 40653

Ion Ratio Lower Upper

252 100

253 41.4 18.2 27.2#

125 67.8 10.0 15.0#



#91

Benzo(g,h,i)perylene

Concen: 2.25 ng

RT: 16.86 min Scan# 1310

Delta R.T. 0.06 min

Lab File: BF092180.D

Acq: 10 Jan 2017 14:27

Tgt Ion:276 Resp: 20807

Ion Ratio Lower Upper

276 100

277 50.1 19.2 28.8#

138 52.1 16.0 24.0#

