

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061416\
 Data File : BF088006.D
 Acq On : 14 Jun 2016 19:01
 Operator : UM/SJ
 Sample : H3437-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 U6-B1(6-12)C

Quant Time: Jun 15 03:56:13 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	107659	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	458392	20.00	ng	-0.01
38) Acenaphthene-d10	9.83	164	209493	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	380783	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	292319	20.00	ng	-0.02
86) Perylene-d12	15.35	264	244561	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	791716	125.72	ng	0.00
7) Phenol-d6	6.42	99	940921	123.28	ng	-0.01
23) Nitrobenzene-d5	7.35	82	585796	74.62	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	237062	107.17	ng	-0.01
44) 2-Fluorobiphenyl	9.15	172	992974	73.73	ng	-0.01
78) Terphenyl-d14	12.89	244	684668	53.30	ng	-0.01

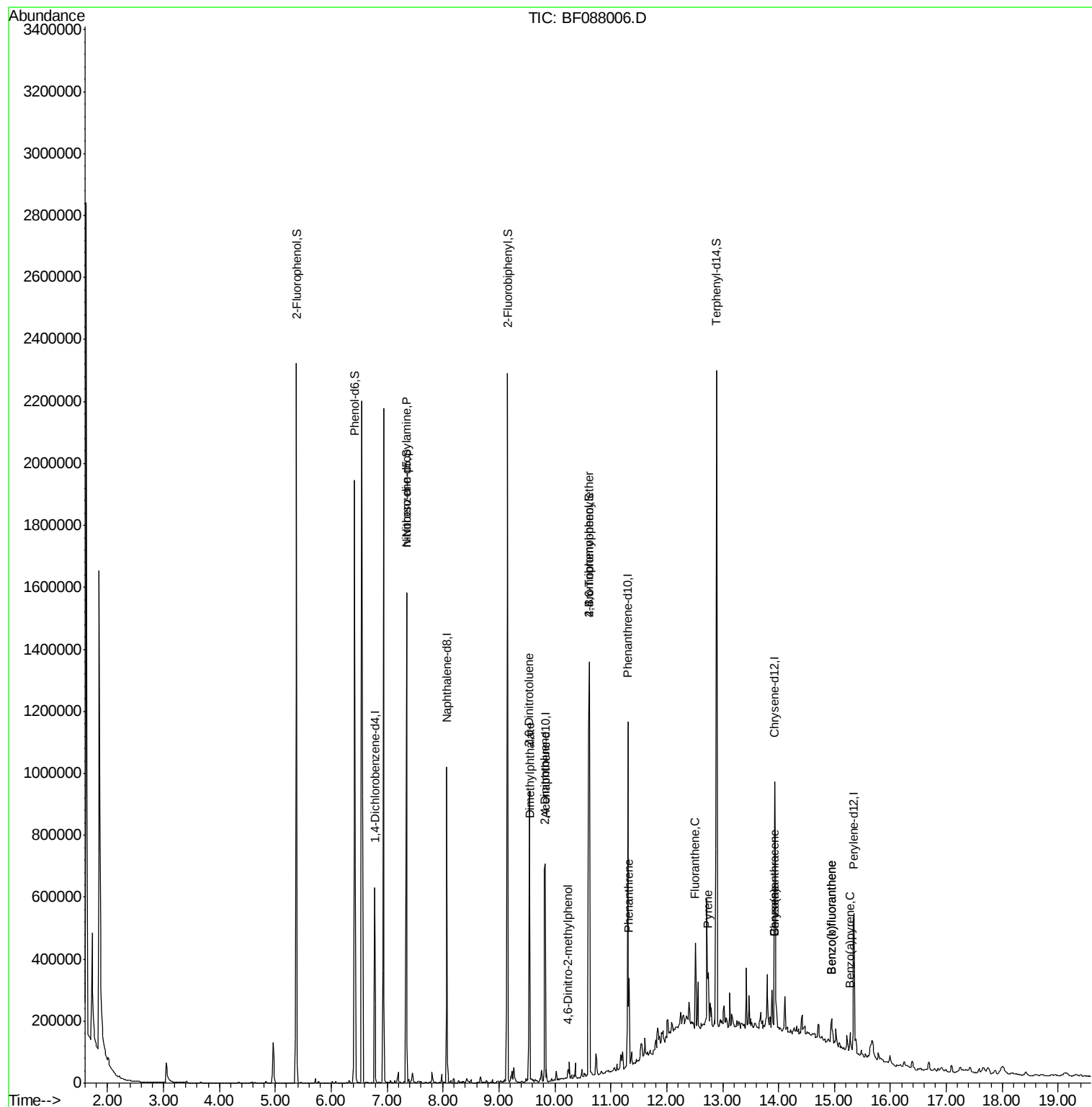
Target Compounds				Qvalue		
10) Phenol	6.43	94	15988	Below Cal	#	45
19) n-Nitroso-di-n-propylamine	7.35	70	77100	15.79	ng	# 72
45) 1,1'-Biphenyl	9.24	154	1227	Below Cal		86
49) Dimethylphthalate	9.55	163	588596	38.79	ng	98
50) 2,6-Dinitrotoluene	9.54	165	7136	2.05	ng	# 1
56) 2,4-Dinitrotoluene	9.82	165	26616	5.96	ng	# 38
57) Fluorene	10.36	166	10687	Below Cal		95
64) 4,6-Dinitro-2-methylphenol	10.24	198	557	2.39	ng	# 40
66) 4-Bromophenyl-phenylether	10.62	248	16324	4.00	ng	# 1
70) Phenanthrene	11.32	178	94733	4.74	ng	98
74) Fluoranthene	12.51	202	107301	5.09	ng	96
77) Pyrene	12.74	202	89997	4.15	ng	99
80) Benzo(a)anthracene	13.92	228	45904	2.76	ng	97
82) Chrysene	13.92	228	45904	2.93	ng	95
87) Benzo(b)fluoranthene	14.95	252	56473	3.31	ng	# 91
88) Benzo(k)fluoranthene	14.95	252	56473	4.39	ng	96
89) Benzo(a)pyrene	15.28	252	27787	2.01	ng	# 94

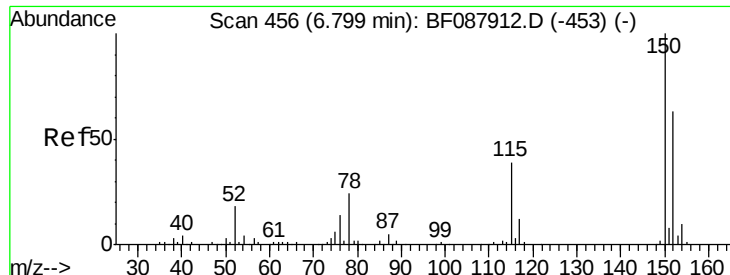
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 454

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

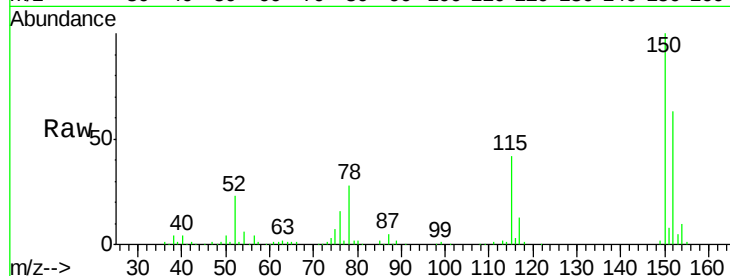
Tgt Ion:152 Resp: 107659

Ion Ratio Lower Upper

152 100

150 159.0 123.8 185.6

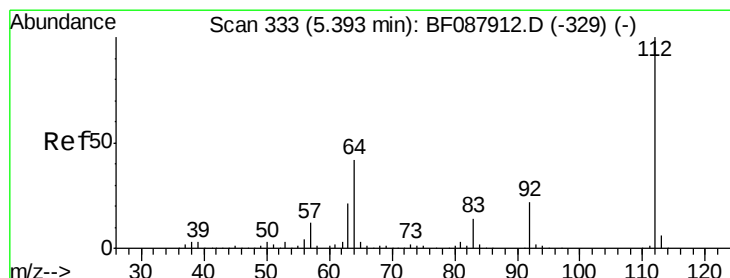
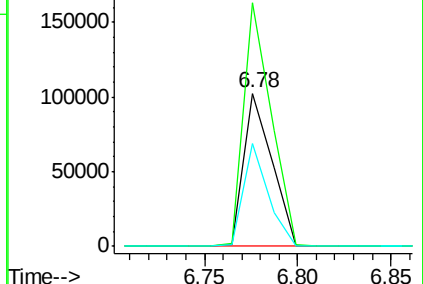
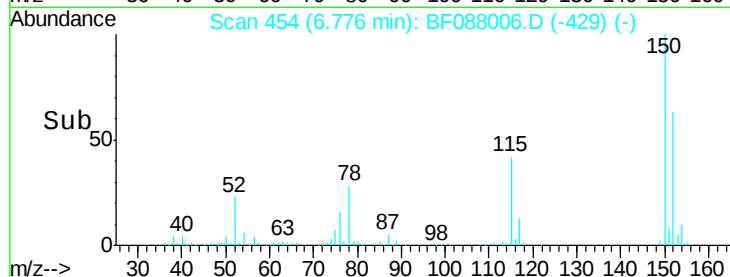
115 66.9 39.6 59.4#



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: 125.72 ng

RT: 5.38 min Scan# 332

Delta R.T. -0.00 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

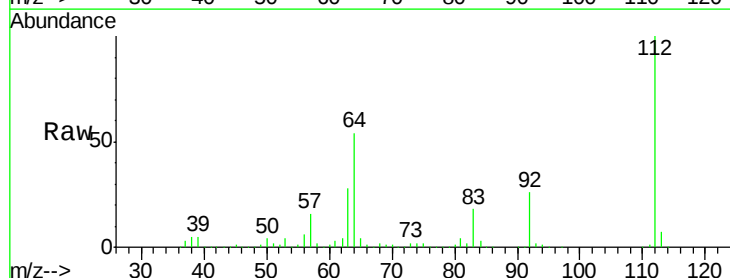
Tgt Ion:112 Resp: 791716

Ion Ratio Lower Upper

112 100

64 54.5 42.2 63.2

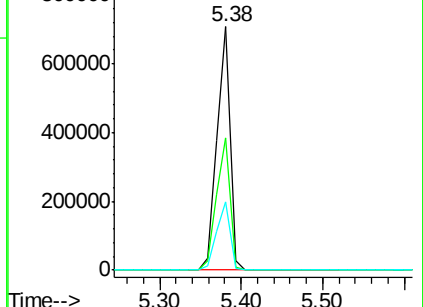
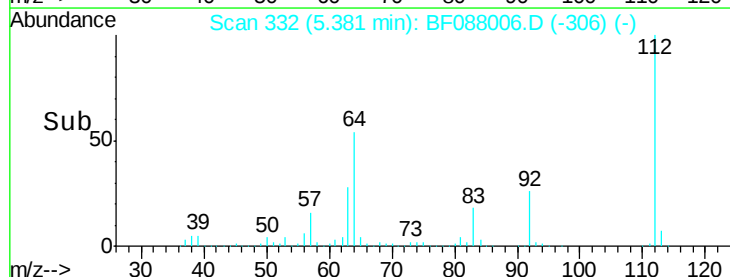
63 28.2 21.8 32.8

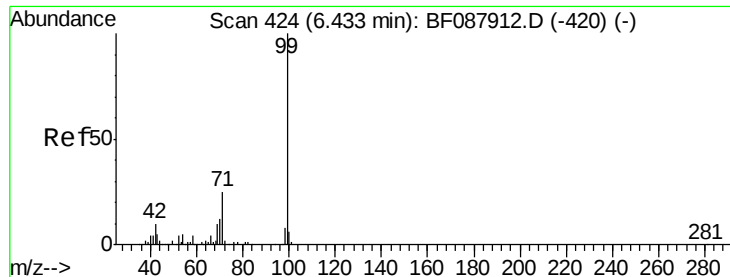


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.28 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

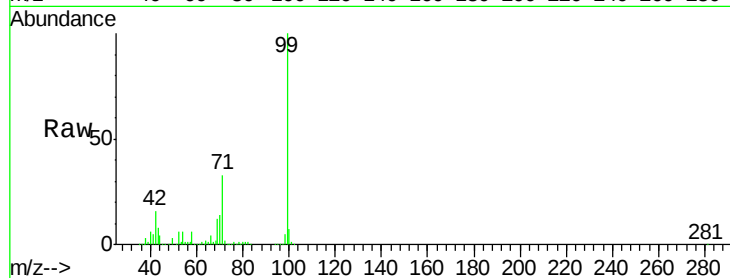
Tgt Ion: 99 Resp: 940921

Ion Ratio Lower Upper

99 100

42 15.8 12.2 18.2

71 32.7 23.4 35.0



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

1000000

800000

600000

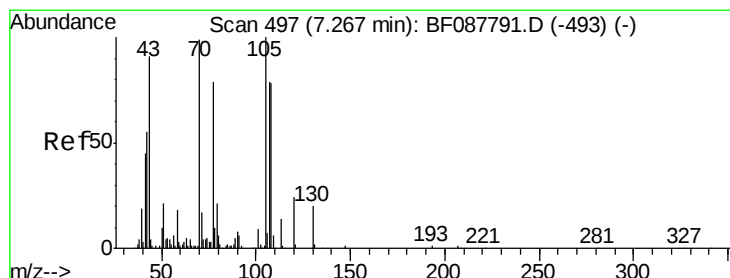
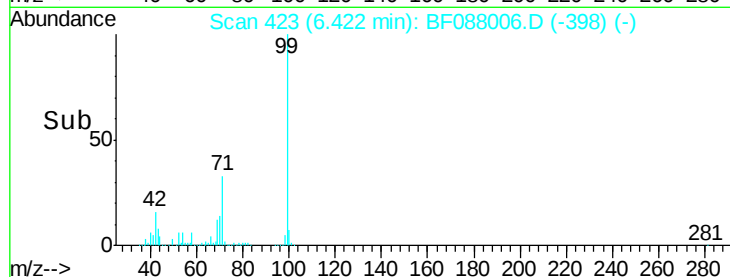
400000

200000

0

6.40 6.50

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 15.79 ng

RT: 7.35 min Scan# 504

Delta R.T. 0.13 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Tgt Ion: 70 Resp: 77100

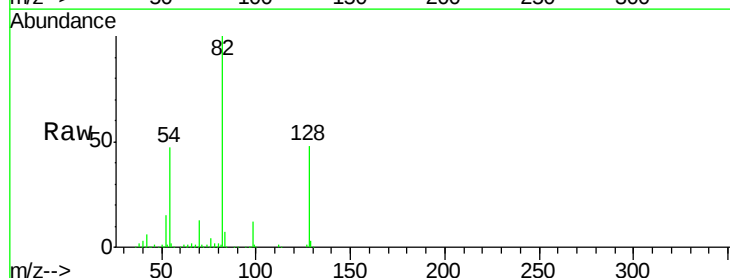
Ion Ratio Lower Upper

70 100

42 41.9 49.6 74.4#

101 0.0 7.1 10.7#

130 2.4 15.4 23.2#



Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

100000

80000

60000

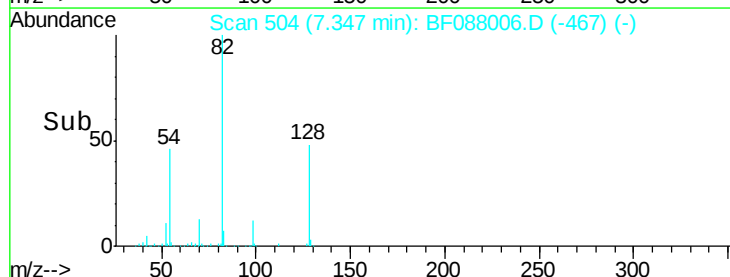
40000

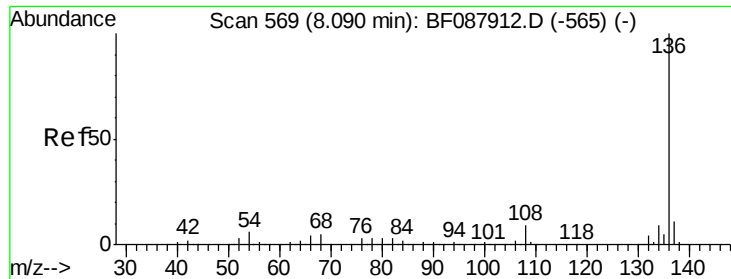
20000

0

7.25 7.30 7.35 7.40 7.45

Time-->

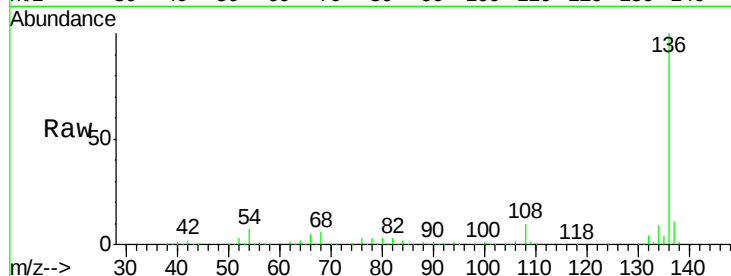




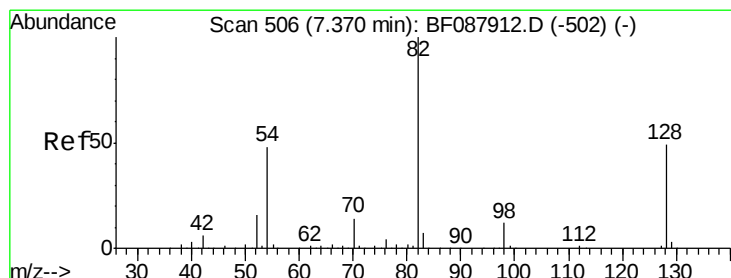
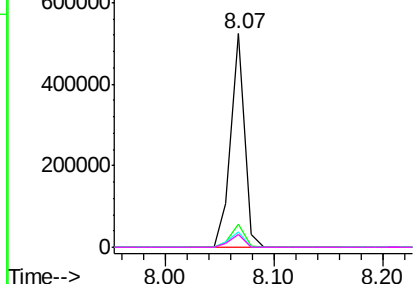
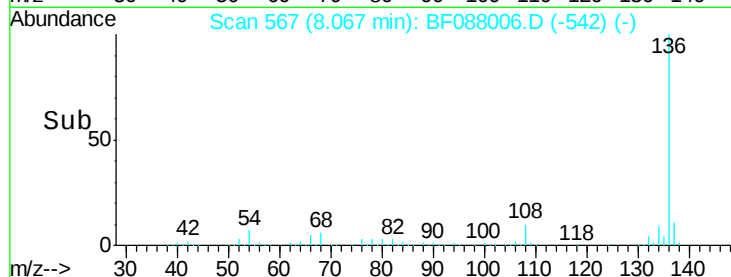
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.07 min Scan# 567
Delta R.T. -0.01 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Instrument :
BNA_F
ClientSampleId :
U6-B1(6-12)C

Tgt Ion:	136	Resp:	458392
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	6.9	6.6	10.0
68	5.9	5.1	7.7

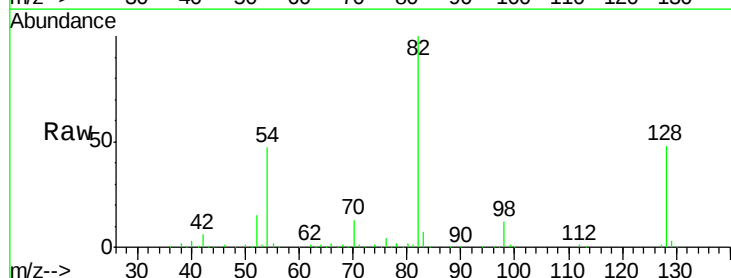


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

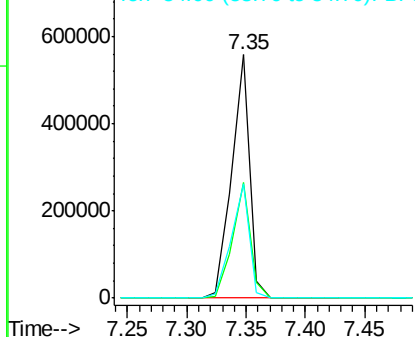
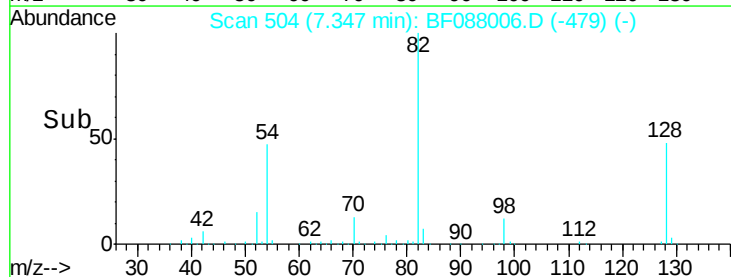


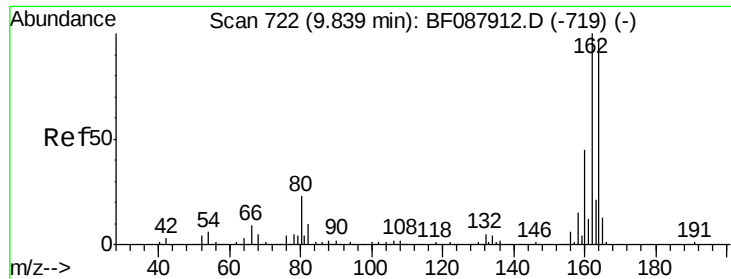
#23
Nitrobenzene-d5
Concen: 74.62 ng
RT: 7.35 min Scan# 504
Delta R.T. -0.01 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Tgt Ion:	82	Resp:	585796
Ion	Ratio	Lower	Upper
82	100		
128	47.7	35.9	53.9
54	46.8	40.9	61.3



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

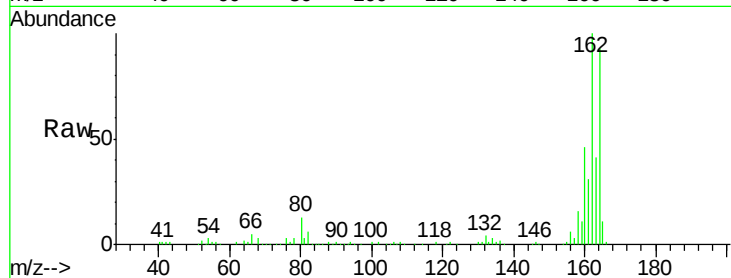




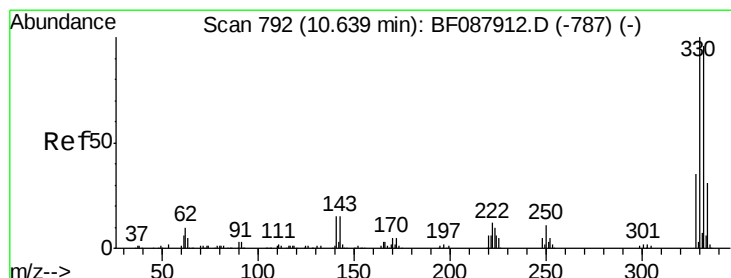
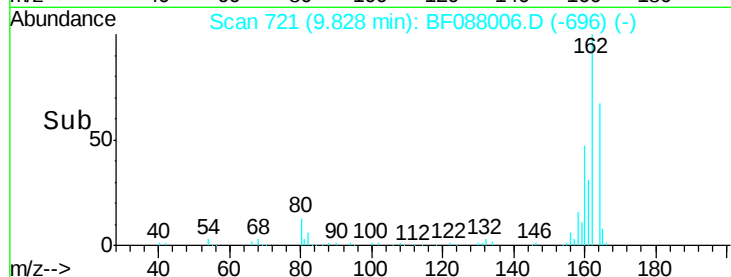
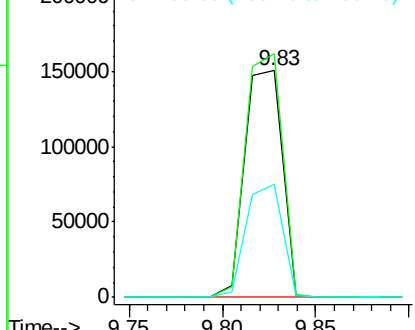
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.83 min Scan# 721
Delta R.T. -0.01 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Instrument :
BNA_F
ClientSampleId :
U6-B1(6-12)C

Tgt Ion:164 Resp: 209493
Ion Ratio Lower Upper
164 100
162 107.4 85.4 128.2
160 49.6 39.5 59.3

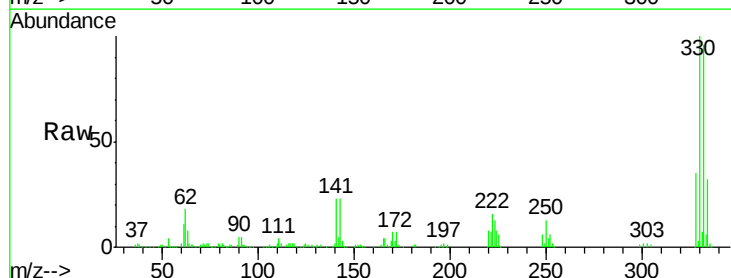


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

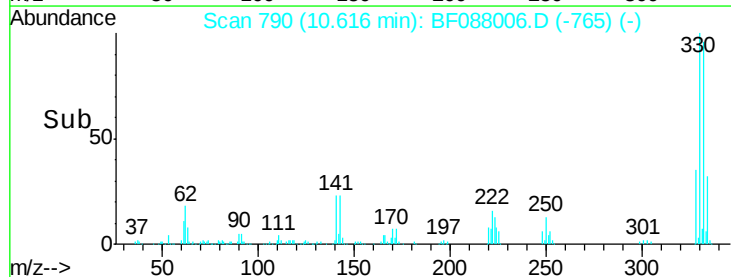
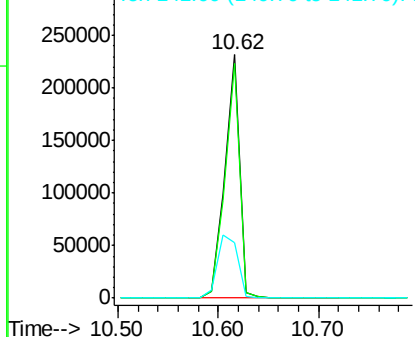


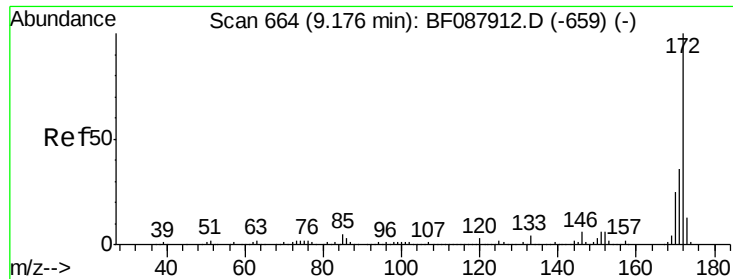
#41
2,4,6-Tribromophenol
Concen: 107.17 ng
RT: 10.62 min Scan# 790
Delta R.T. -0.01 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Tgt Ion:330 Resp: 237062
Ion Ratio Lower Upper
330 100
332 95.8 0.0 0.0#
141 35.9 0.0 0.0#



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: 73.73 ng

RT: 9.15 min Scan# 662

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

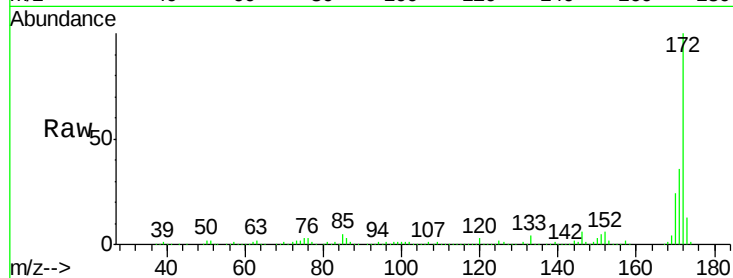
Tgt Ion:172 Resp: 992974

Ion Ratio Lower Upper

172 100

171 36.2 28.6 43.0

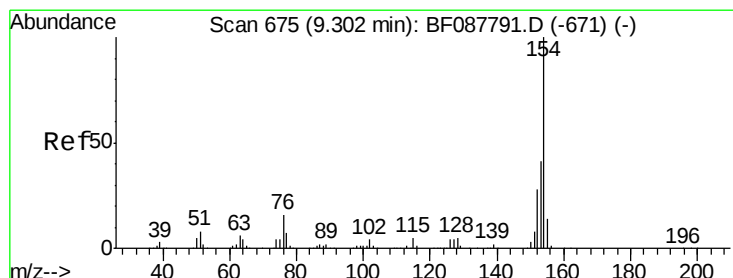
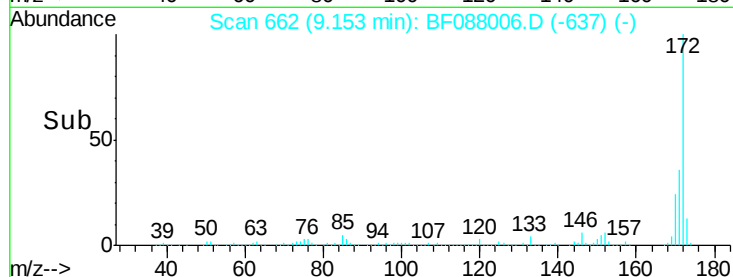
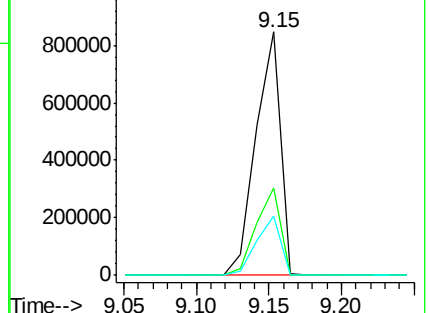
170 24.4 19.2 28.8



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



#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.24 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

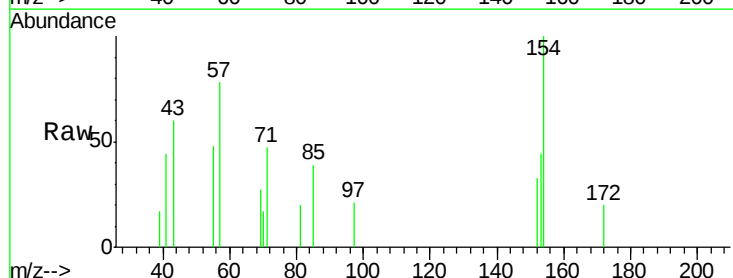
Tgt Ion:154 Resp: 1227

Ion Ratio Lower Upper

154 100

153 44.2 20.6 60.6

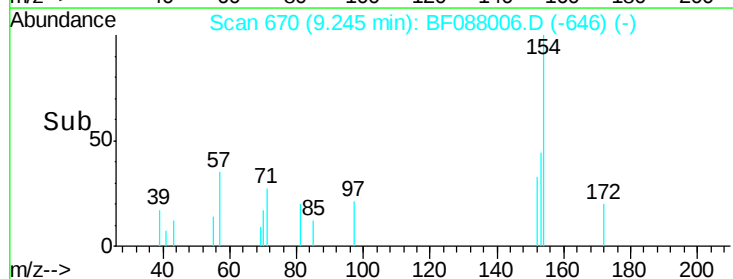
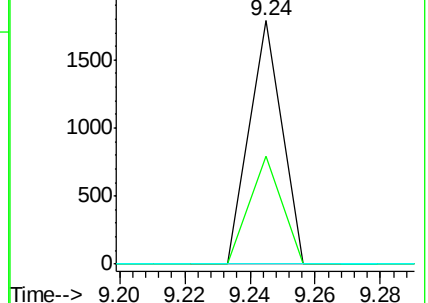
76 0.0 0.0 35.1

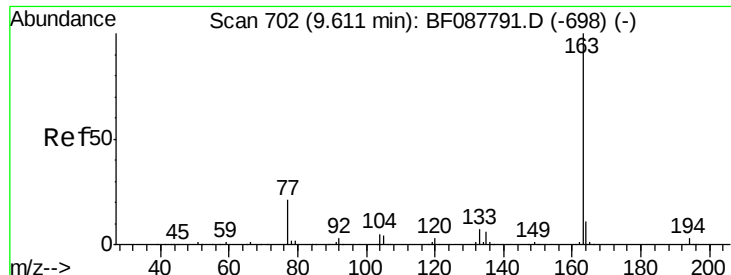


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#49

Dimethylphthalate

Concen: 38.79 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

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U6-B1(6-12)C

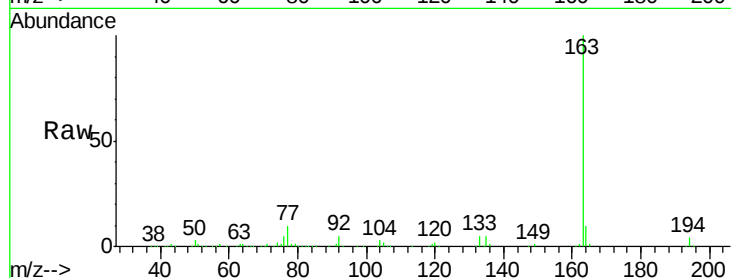
Tgt Ion:163 Resp: 588596

Ion Ratio Lower Upper

163 100

194 4.0 2.8 4.2

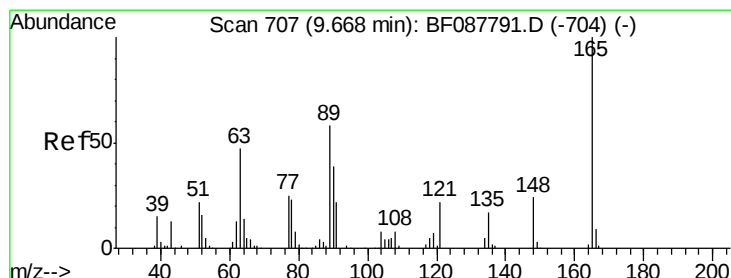
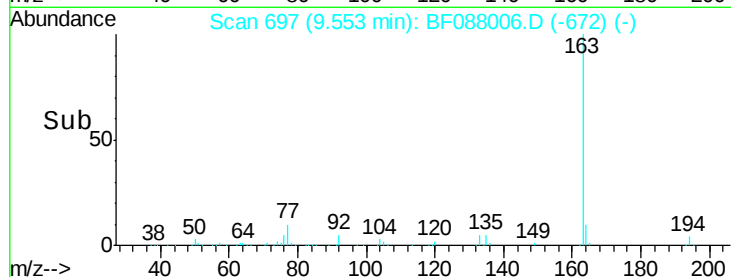
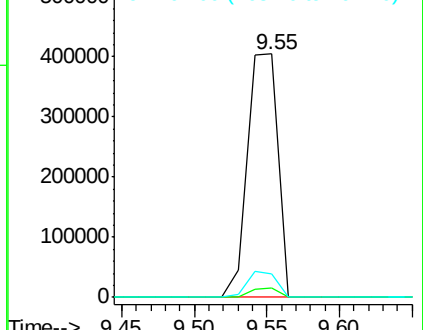
164 9.6 8.3 12.5



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



#50

2,6-Dinitrotoluene

Concen: 2.05 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.08 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

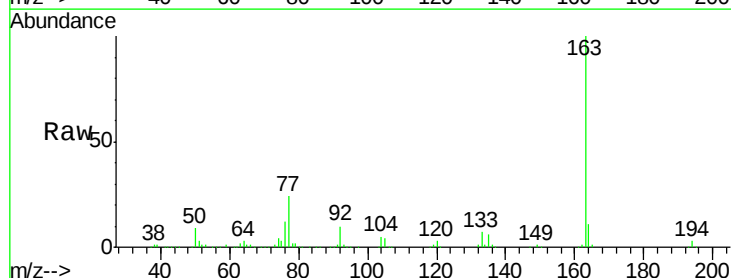
Tgt Ion:165 Resp: 7136

Ion Ratio Lower Upper

165 100

63 159.5 28.1 42.1#

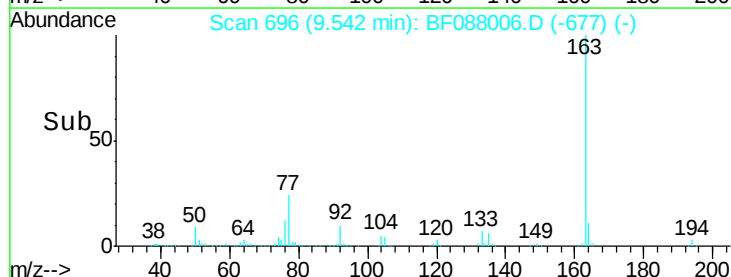
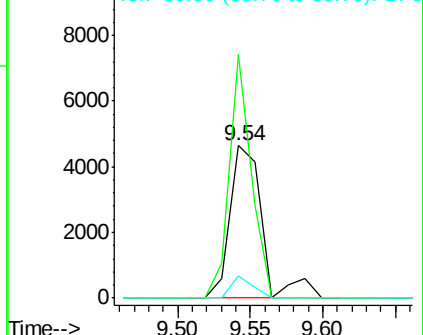
89 14.2 32.2 48.2#

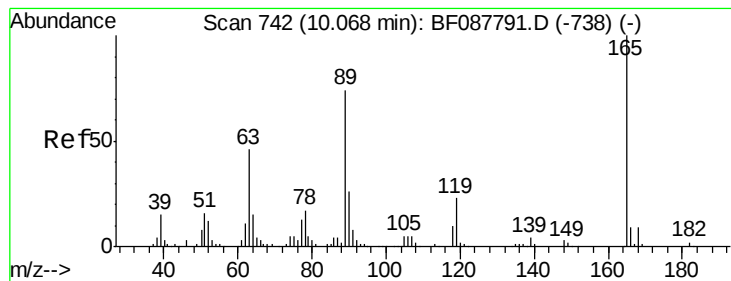


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#56

2,4-Dinitrotoluene

Concen: 5.96 ng

RT: 9.82 min Scan# 720

Delta R.T. -0.22 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

Tgt Ion:165 Resp: 26616

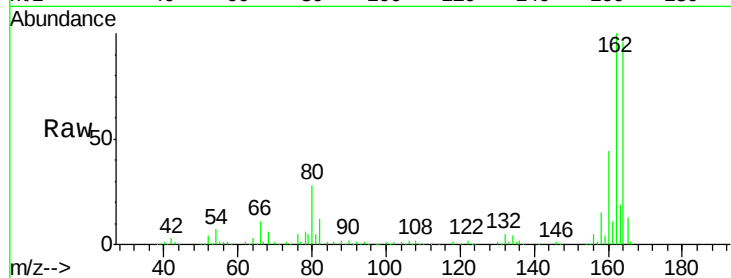
Ion Ratio Lower Upper

165 100

63 1.6 22.0 33.0#

89 1.6 41.1 61.7#

182 0.0 2.0 3.0#

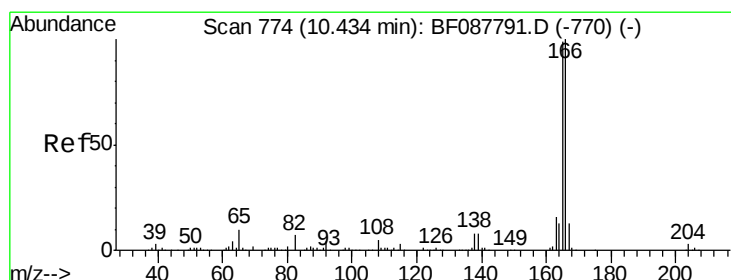
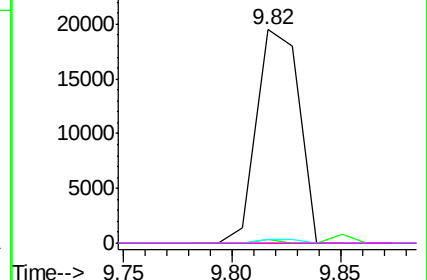
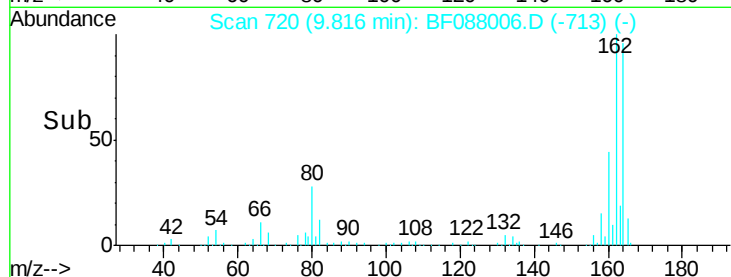


Abundance Ion 165.00 (164.70 to 165.70): E

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: Below Cal

RT: 10.36 min Scan# 768

Delta R.T. -0.02 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

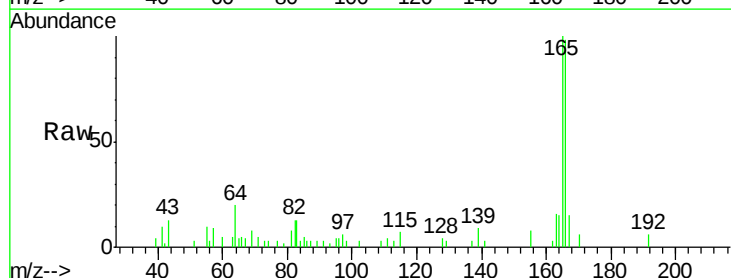
Tgt Ion:166 Resp: 10687

Ion Ratio Lower Upper

166 100

165 102.1 77.8 116.8

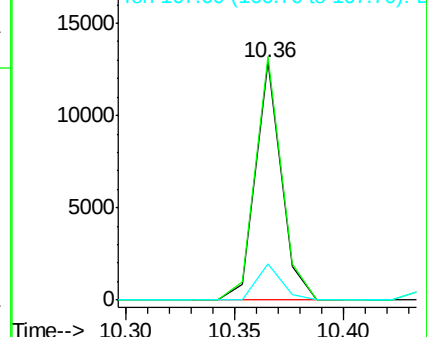
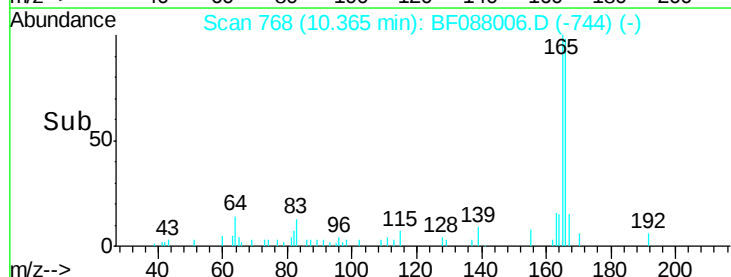
167 15.5 11.2 16.8

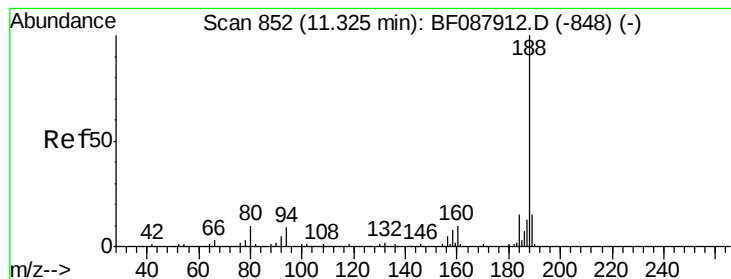


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.30 min Scan# 850

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

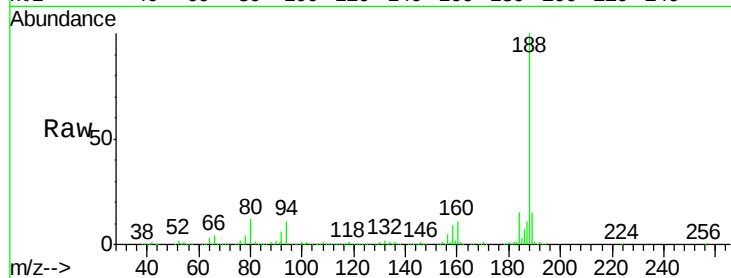
Tgt Ion:188 Resp: 380783

Ion Ratio Lower Upper

188 100

94 11.4 9.0 13.6

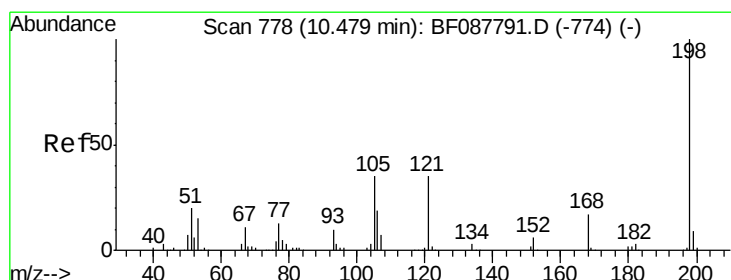
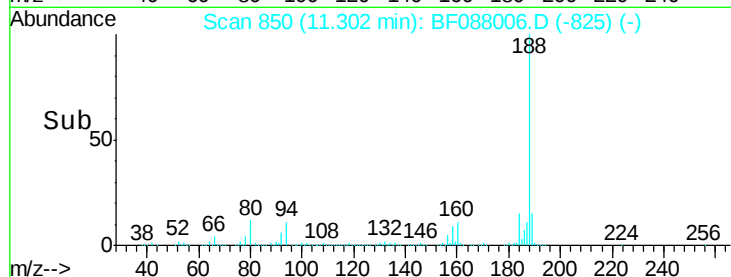
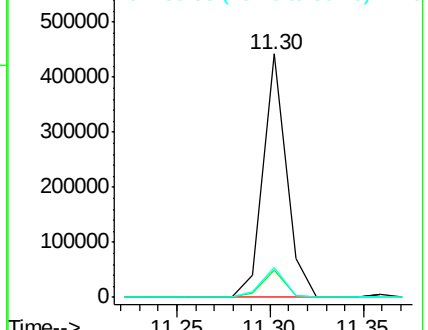
80 12.3 10.0 15.0



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.39 ng

RT: 10.24 min Scan# 757

Delta R.T. -0.19 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

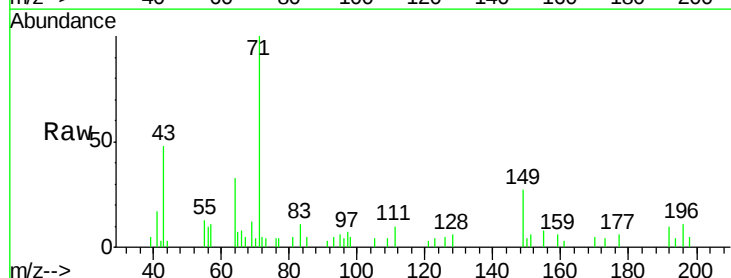
Tgt Ion:198 Resp: 557

Ion Ratio Lower Upper

198 100

51 0.0 39.6 79.6#

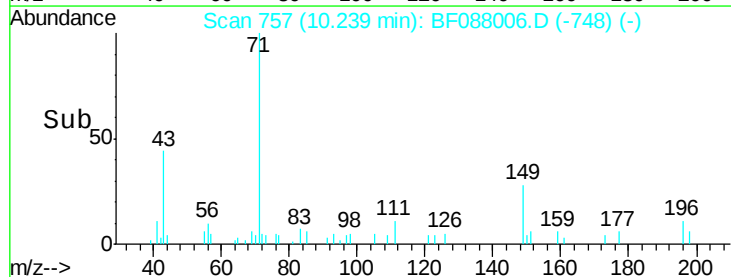
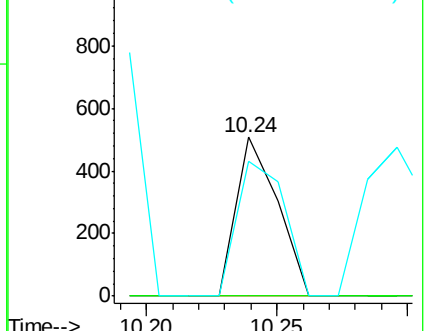
105 85.2 36.6 76.6#

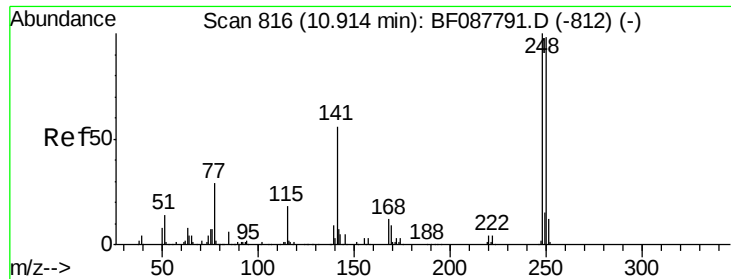


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

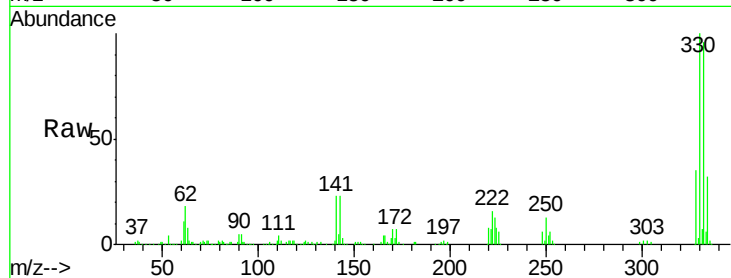




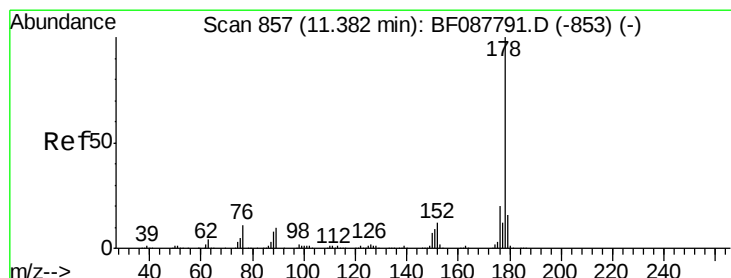
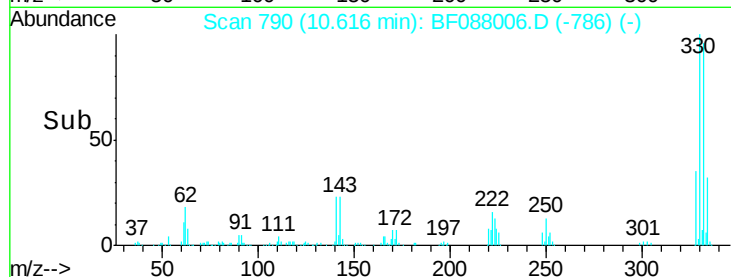
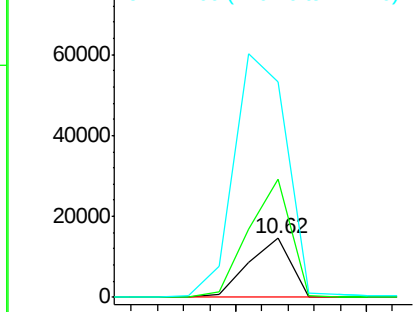
#66
4-Bromophenyl-phenylether
Concen: 4.00 ng
RT: 10.62 min Scan# 790
Delta R.T. -0.25 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Instrument :
BNA_F
ClientSampleId :
U6-B1(6-12)C

Tgt Ion:248 Resp: 16324
Ion Ratio Lower Upper
248 100
250 199.9 77.1 115.7#
141 366.7 50.6 76.0#

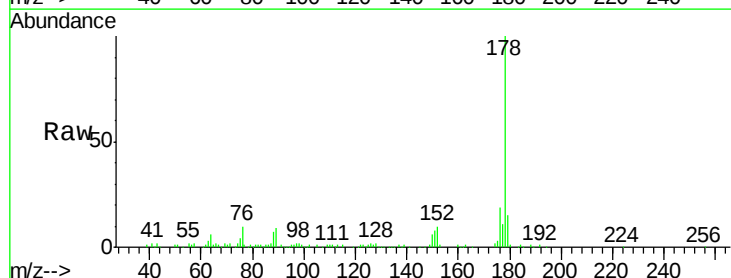


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

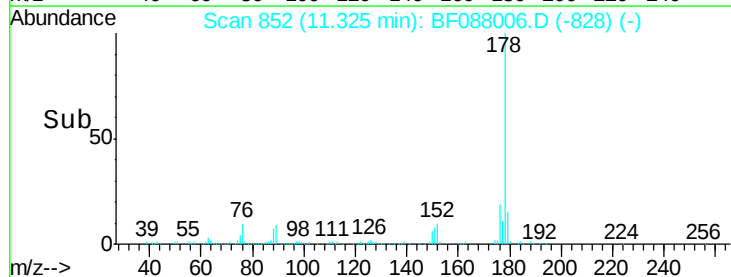
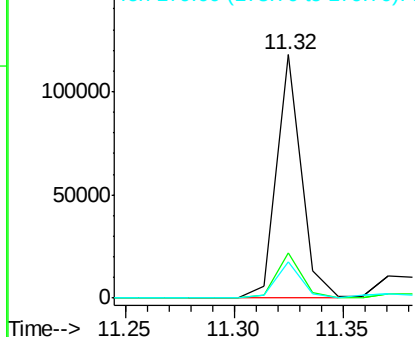


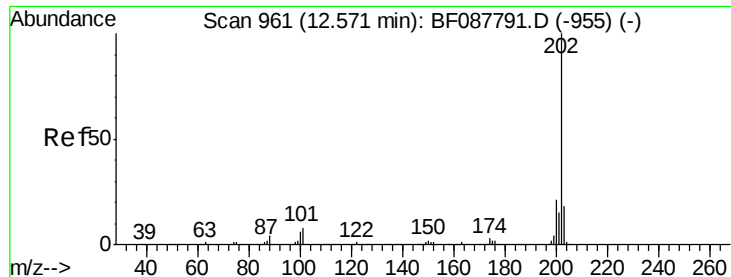
#70
Phenanthrene
Concen: 4.74 ng
RT: 11.32 min Scan# 852
Delta R.T. -0.02 min
Lab File: BF088006.D
Acq: 14 Jun 2016 19:01

Tgt Ion:178 Resp: 94733
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 15.1 13.0 19.4



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: 5.09 ng

RT: 12.51 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

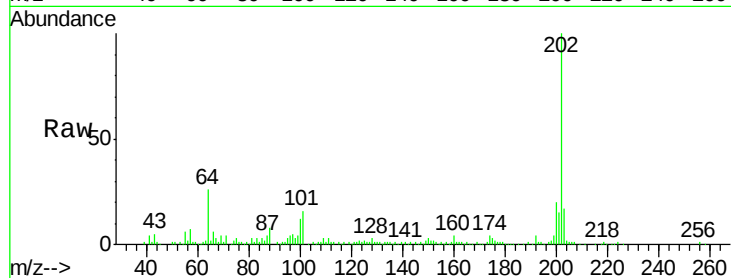
Tgt Ion:202 Resp: 107301

Ion Ratio Lower Upper

202 100

101 16.1 0.0 33.1

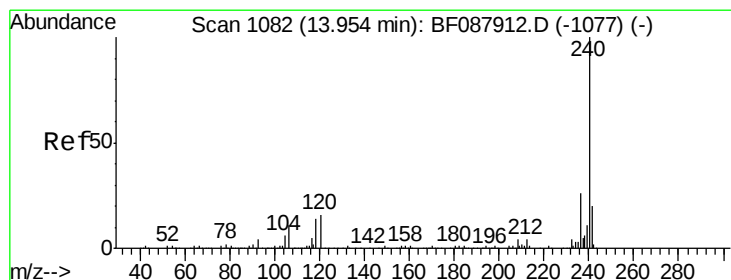
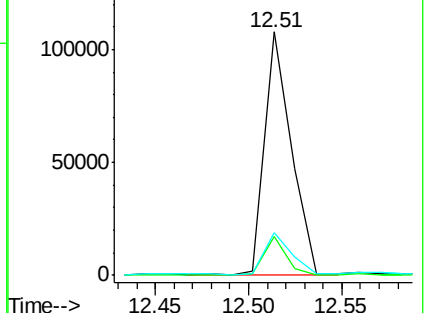
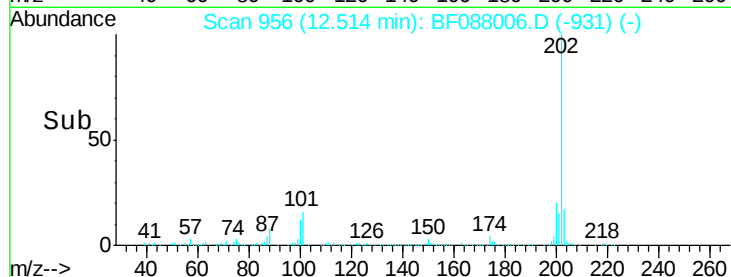
203 17.4 0.0 38.1



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: 13.93 min Scan# 1080

Delta R.T. -0.02 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

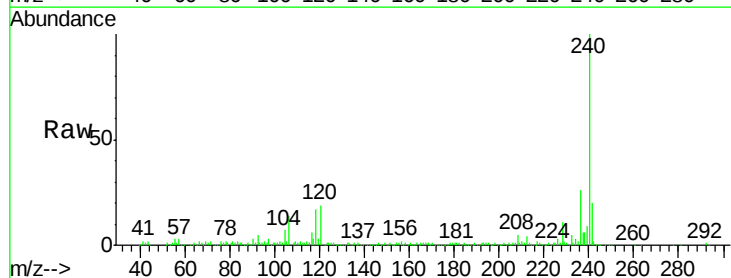
Tgt Ion:240 Resp: 292319

Ion Ratio Lower Upper

240 100

120 19.3 6.8 10.2#

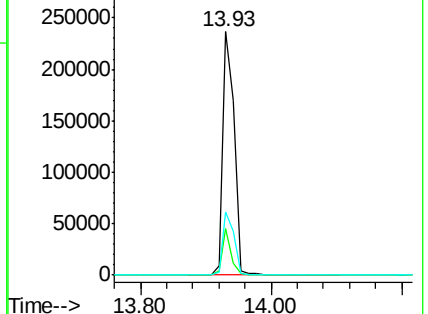
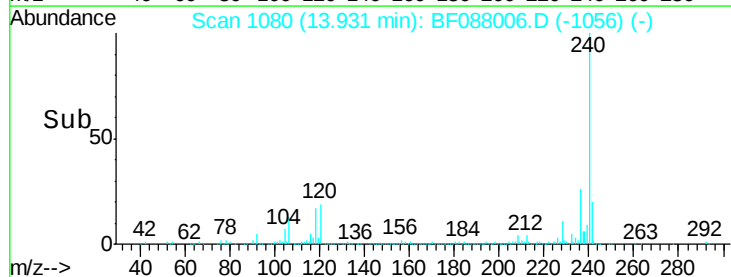
236 25.9 20.2 30.2

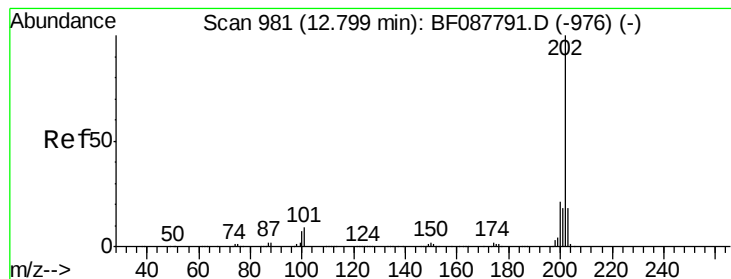


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 4.15 ng

RT: 12.74 min Scan# 976

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

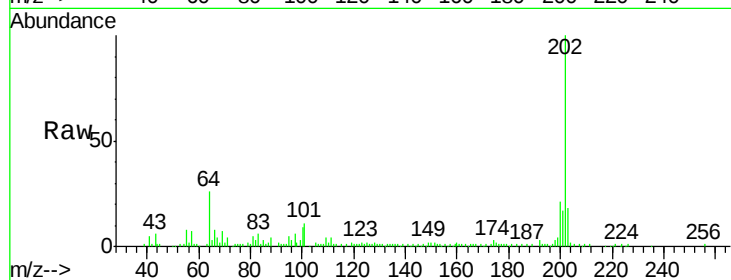
Tgt Ion:202 Resp: 89997

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.2

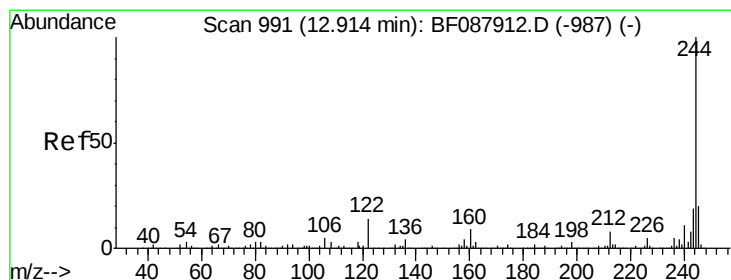
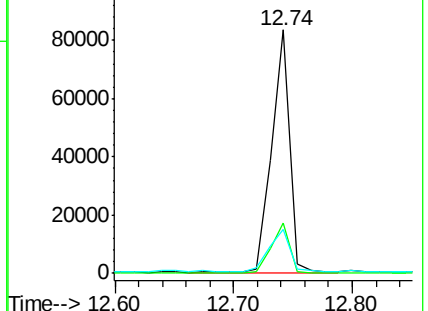
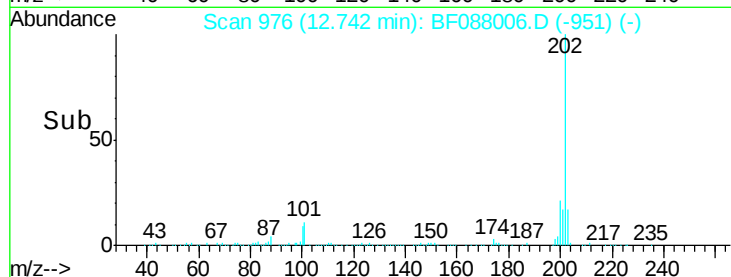
203 18.0 14.5 21.7



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: 53.30 ng

RT: 12.89 min Scan# 989

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

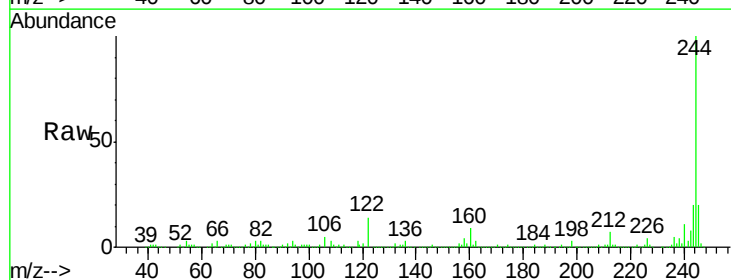
Tgt Ion:244 Resp: 684668

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

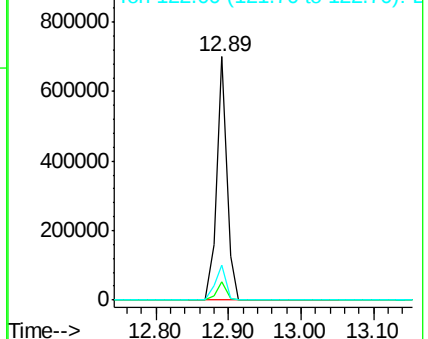
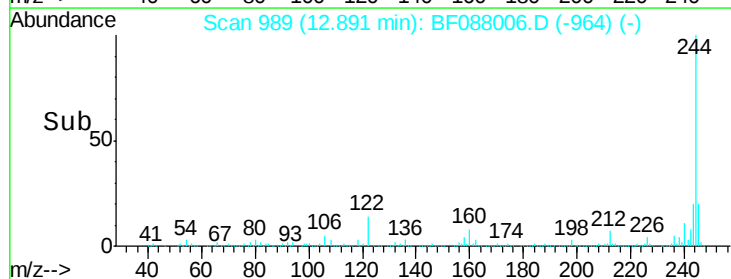
122 14.4 11.2 16.8

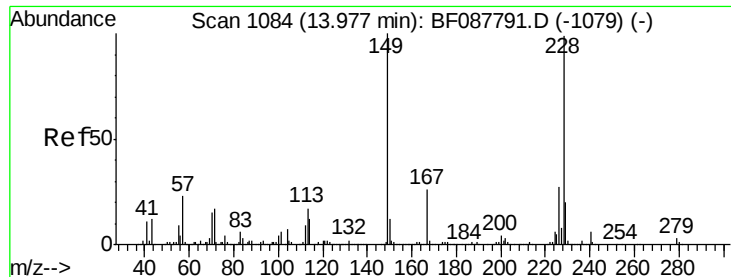


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.76 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

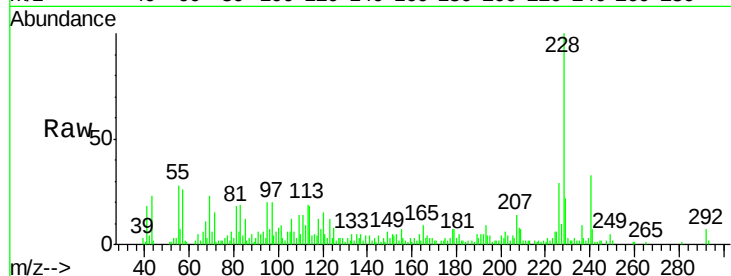
Tgt Ion:228 Resp: 45904

Ion Ratio Lower Upper

228 100

226 28.7 22.3 33.5

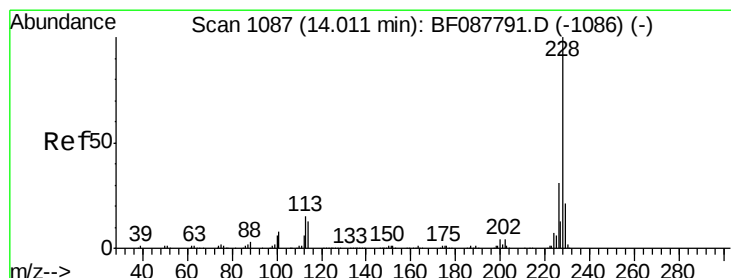
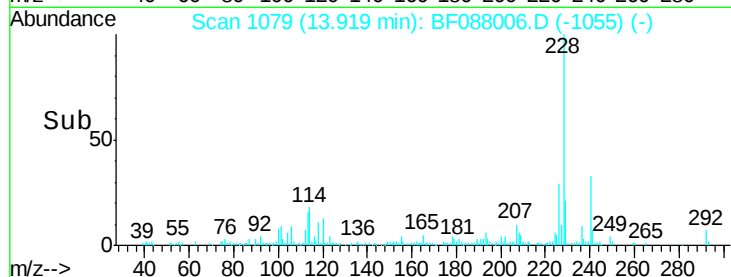
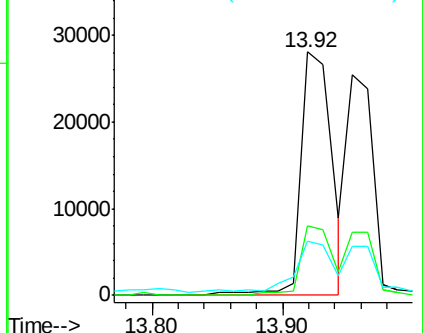
229 22.3 16.0 24.0



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: 2.93 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.06 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

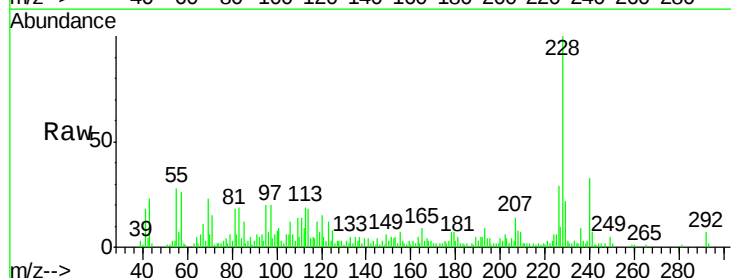
Tgt Ion:228 Resp: 45904

Ion Ratio Lower Upper

228 100

226 28.7 25.4 38.2

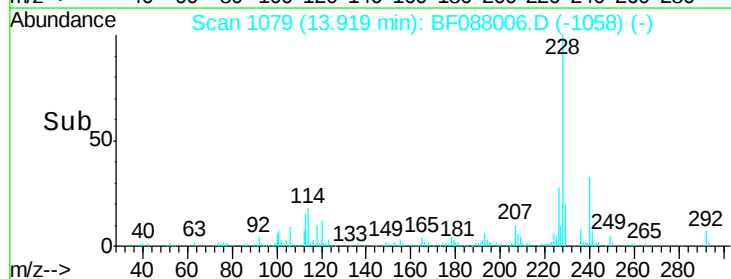
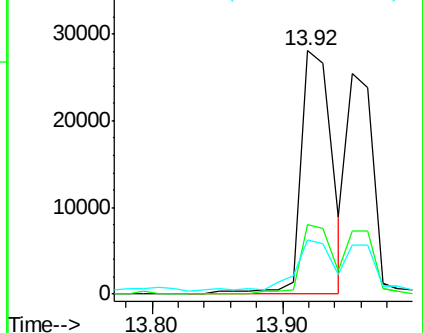
229 22.3 16.3 24.5

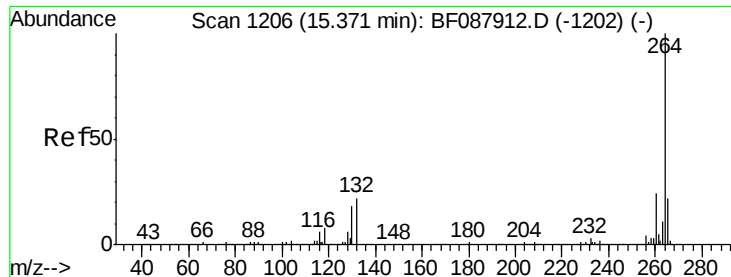


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.35 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

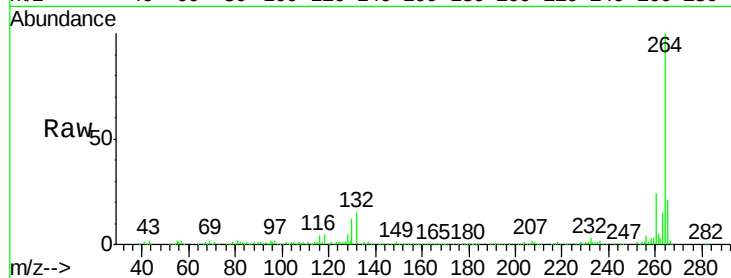
Tgt Ion:264 Resp: 244561

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

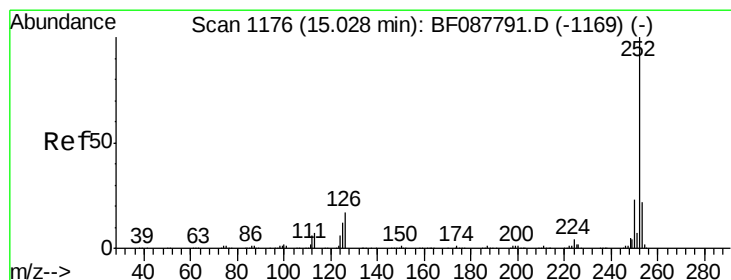
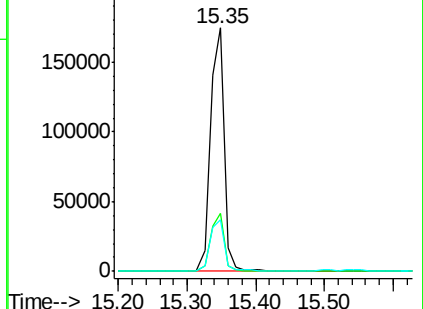
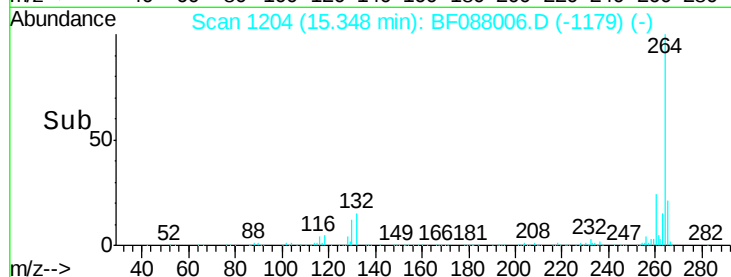
265 21.1 16.9 25.3



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: 3.31 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

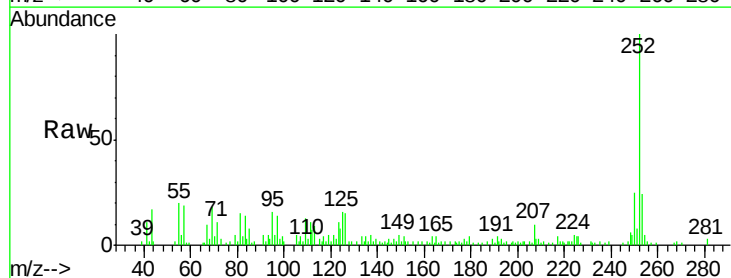
Tgt Ion:252 Resp: 56473

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.2

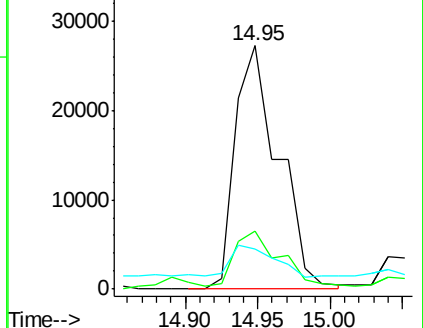
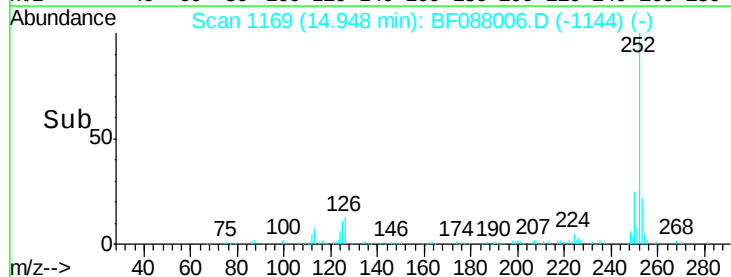
125 16.5 7.1 10.7#

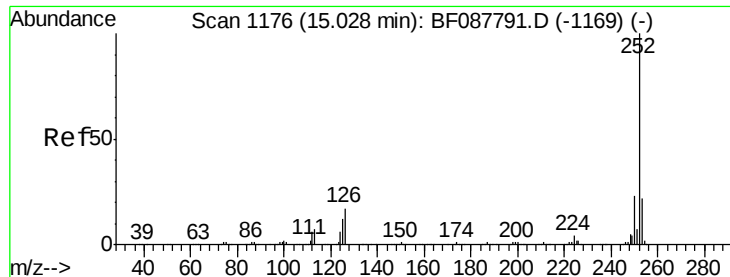


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 4.39 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.03 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

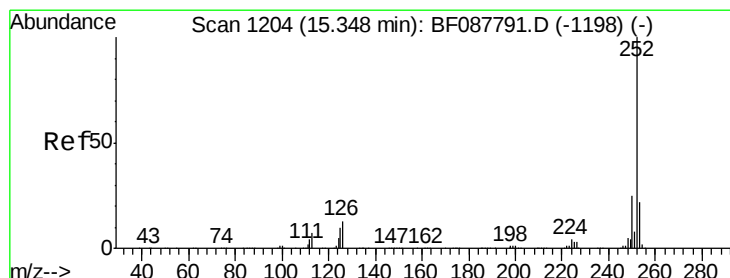
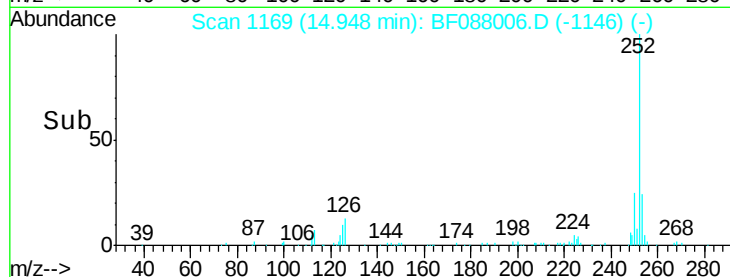
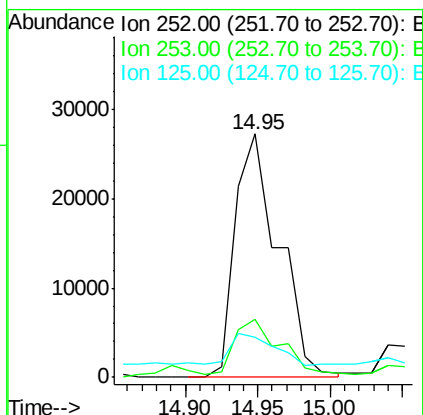
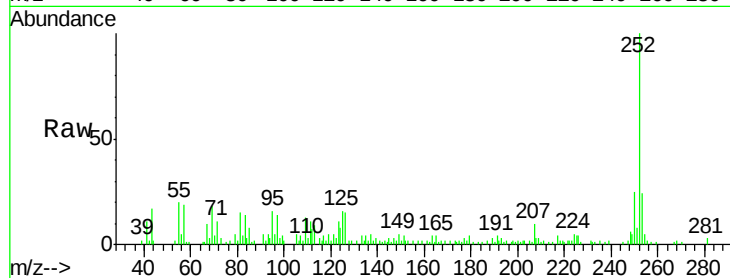
Instrument :

BNA_F

ClientSampleId :

U6-B1(6-12)C

Tgt Ion:	252	Resp:	56473
Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	16.5	11.2	16.8



#89

Benzo(a)pyrene

Concen: 2.01 ng

RT: 15.28 min Scan# 1198

Delta R.T. -0.02 min

Lab File: BF088006.D

Acq: 14 Jun 2016 19:01

Tgt Ion:	252	Resp:	27787
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	19.6	12.5	18.7#

