

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121616\
 Data File : BF091682.D
 Acq On : 16 Dec 2016 19:37
 Operator : UM/SJ
 Sample : H6099-17
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-C-121316

Quant Time: Dec 16 22:01:50 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 16 00:35:41 2016
 Response via : Initial Calibration

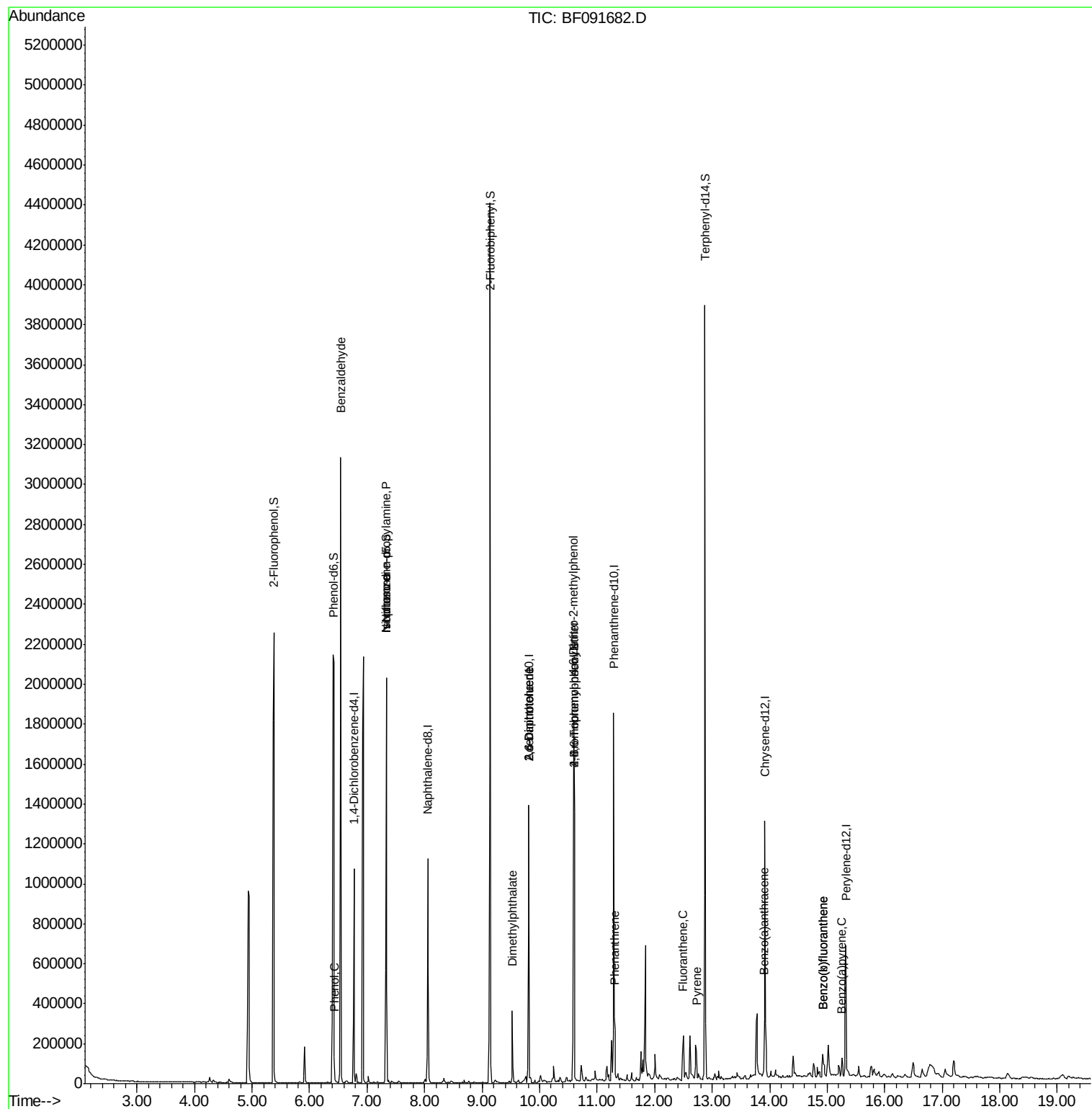
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	155563	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	616632	20.00	ng	-0.02
38) Acenaphthene-d10	9.81	164	367575	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	555043	20.00	ng	-0.02
75) Chrysene-d12	13.92	240	385934	20.00	ng	-0.02
86) Perylene-d12	15.32	264	318291	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	799279	86.56	ng	0.00
7) Phenol-d6	6.42	99	1063503	92.39	ng	-0.01
23) Nitrobenzene-d5	7.33	82	743927	67.33	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	292569	95.83	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	1417257	66.62	ng	-0.01
78) Terphenyl-d14	12.88	244	1108082	65.15	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	6.54	77	24449	3.09	ng	94
10) Phenol	6.43	94	51150	3.80	ng	77
19) n-Nitroso-di-n-propylamine	7.33	70	99254	13.79	ng	# 67
25) Isophorone	7.33	82	607022	30.91	ng	# 67
49) Dimethylphthalate	9.53	163	134892	5.80	ng	# 98
50) 2,6-Dinitrotoluene	9.81	165	47704	9.34	ng	# 16
56) 2,4-Dinitrotoluene	9.81	165	47704	7.45	ng	# 33
57) Fluorene	10.35	166	5165	Below Cal		# 98
64) 4,6-Dinitro-2-methylphenol	10.59	198	600	3.11	ng	# 1
66) 4-Bromophenyl-phenylether	10.60	248	18187	3.20	ng	# 1
70) Phenanthrene	11.31	178	78473	2.86	ng	96
74) Fluoranthene	12.50	202	113951	3.96	ng	96
77) Pyrene	12.73	202	93845	3.06	ng	99
80) Benzo(a)anthracene	13.91	228	53435	2.38	ng	97
87) Benzo(b)fluoranthene	14.92	252	79805	4.21	ng	97
88) Benzo(k)fluoranthene	14.92	252	79805	4.78	ng	96
89) Benzo(a)pyrene	15.25	252	43157	2.52	ng	98

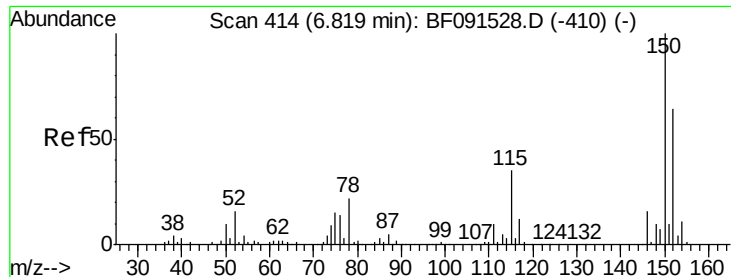
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

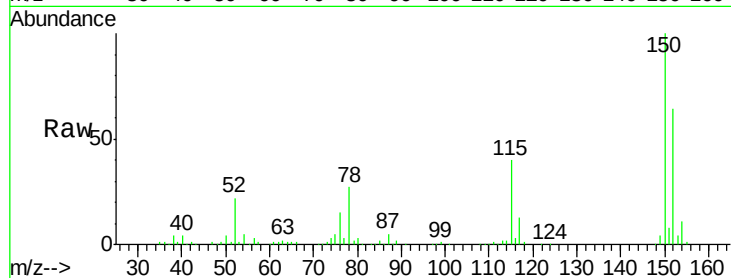
Tgt Ion:152 Resp: 155563

Ion Ratio Lower Upper

152 100

150 156.0 122.5 183.7

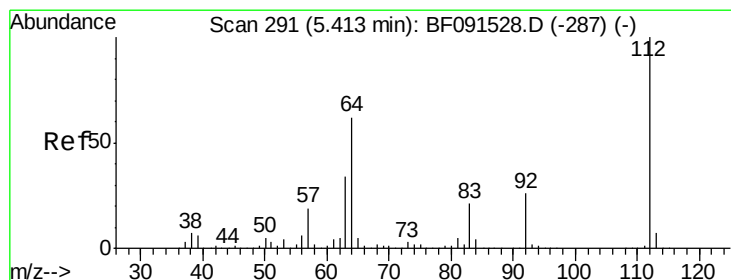
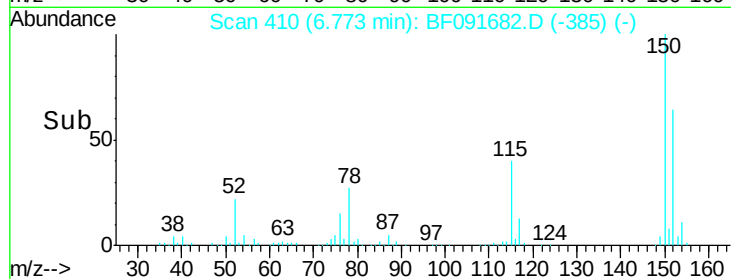
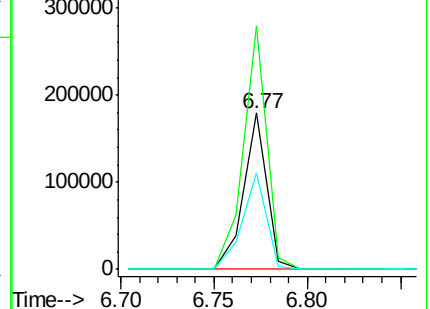
115 62.1 51.8 77.8



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: 86.56 ng

RT: 5.38 min Scan# 288

Delta R.T. -0.00 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

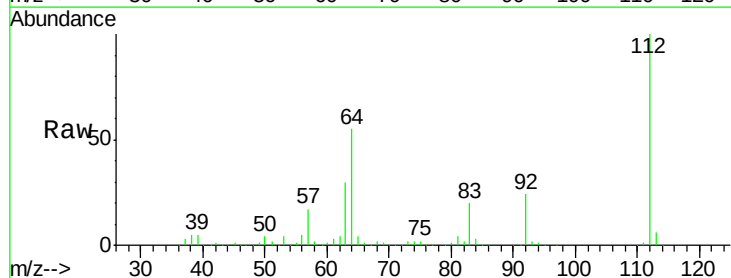
Tgt Ion:112 Resp: 799279

Ion Ratio Lower Upper

112 100

64 54.7 61.5 92.3#

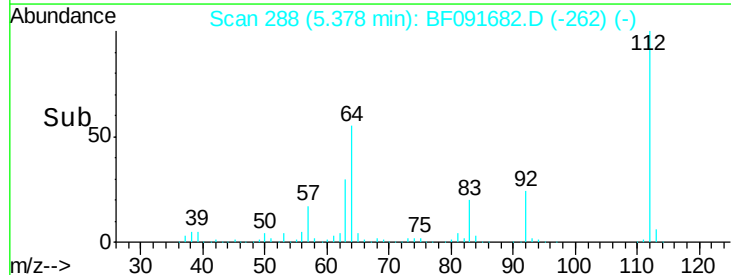
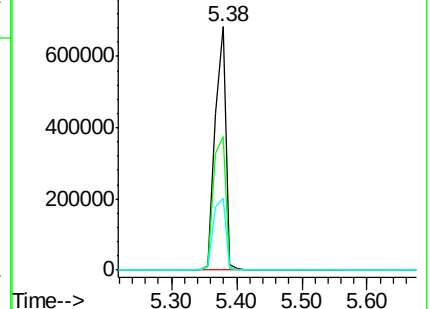
63 29.5 33.3 49.9#

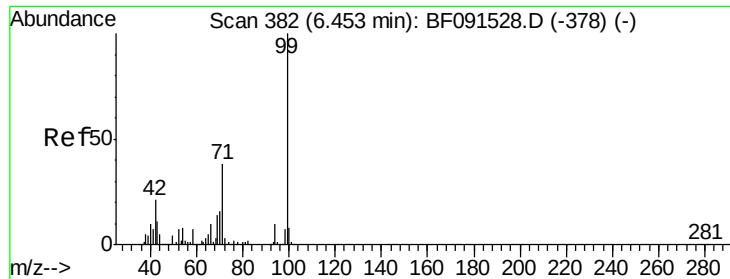


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 92.39 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

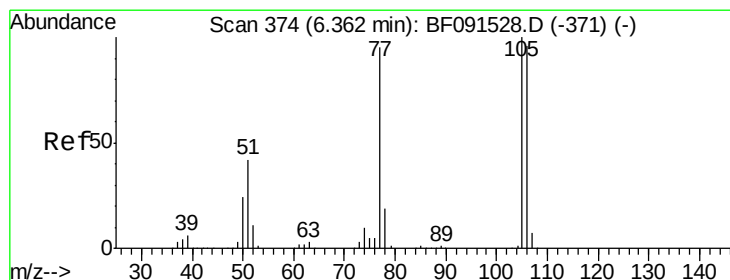
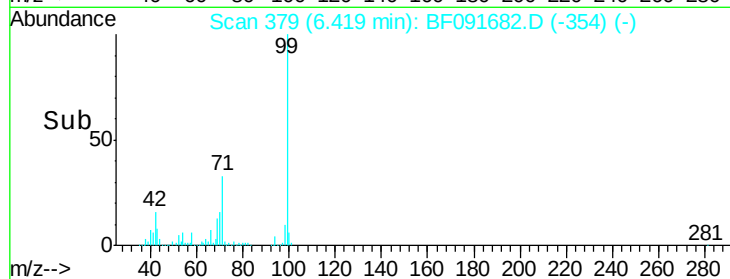
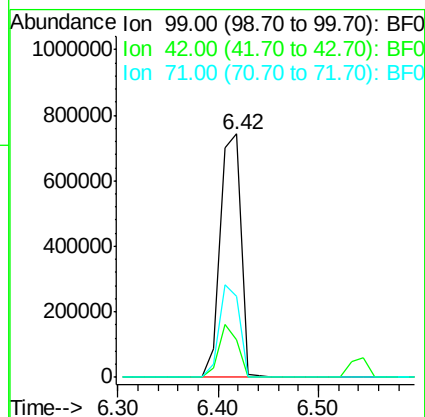
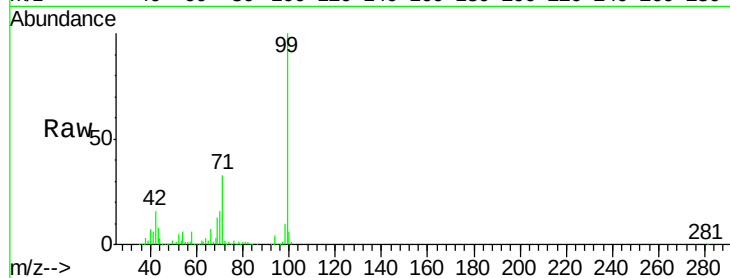
BNA_F

ClientSampleId :

DUP-C-121316

Tgt Ion: 99 Resp: 1063503

Ion	Ratio	Lower	Upper
99	100		
42	15.5	20.6	31.0#
71	33.2	29.9	44.9



#9

Benzaldehyde

Concen: 3.09 ng

RT: 6.54 min Scan# 390

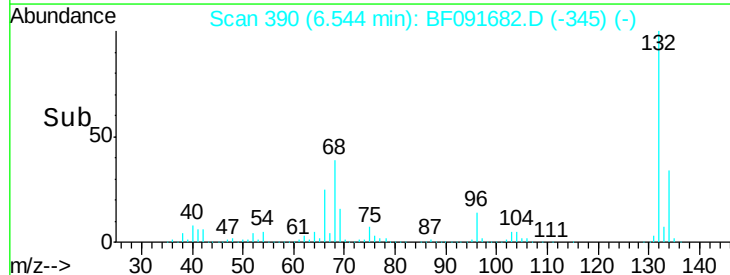
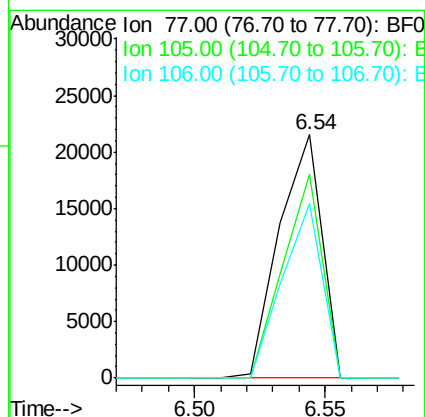
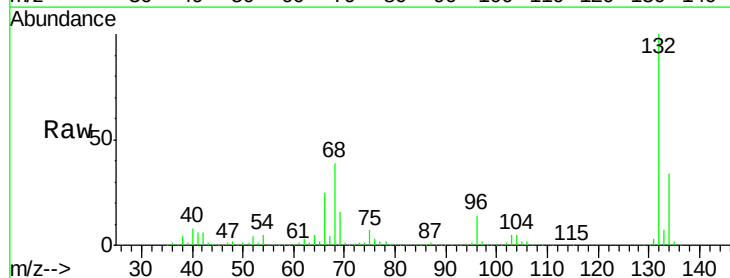
Delta R.T. 0.22 min

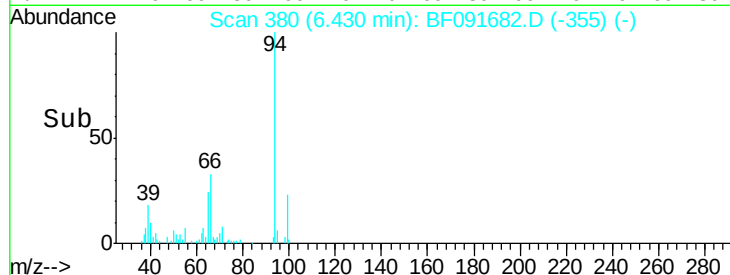
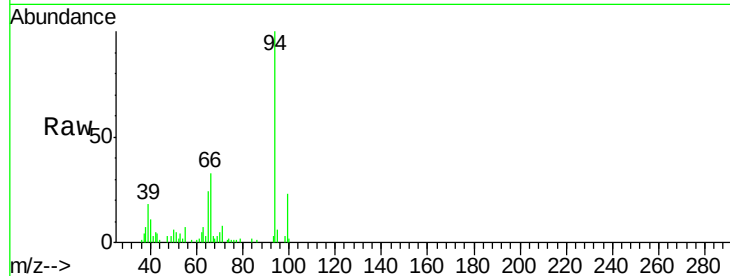
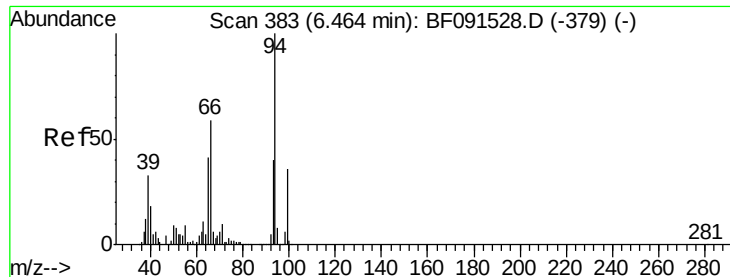
Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Tgt Ion: 77 Resp: 24449

Ion	Ratio	Lower	Upper
77	100		
105	83.7	66.4	106.4
106	71.8	60.9	100.9





#10

Phenol

Concen: 3.80 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

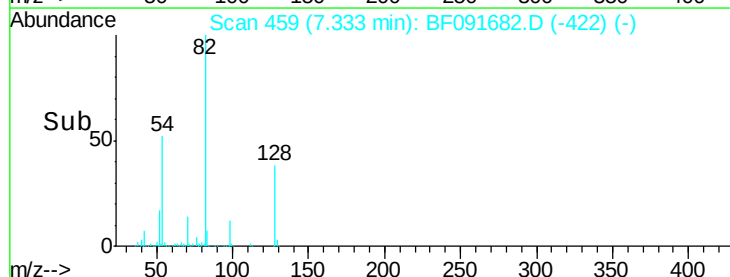
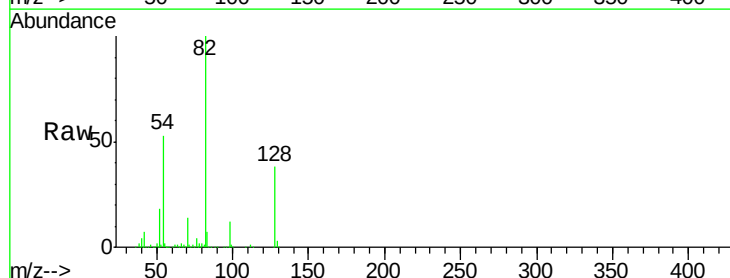
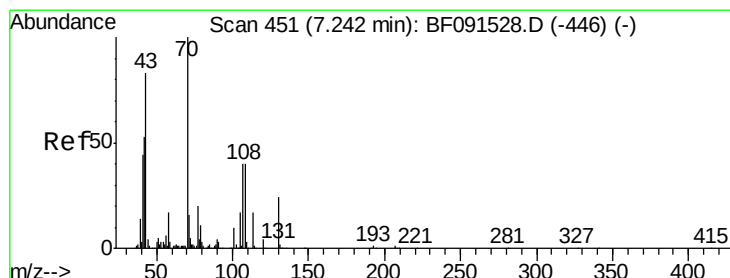
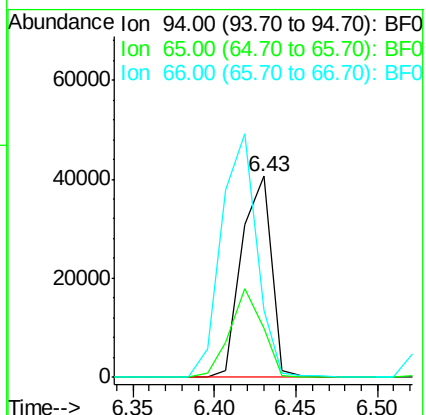
Tgt Ion: 94 Resp: 51150

Ion Ratio Lower Upper

94 100

65 24.5 16.9 56.9

66 33.3 30.6 70.6



#19

n-Nitroso-di-n-propylamine

Concen: 13.79 ng

RT: 7.33 min Scan# 459

Delta R.T. 0.13 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Tgt Ion: 70 Resp: 99254

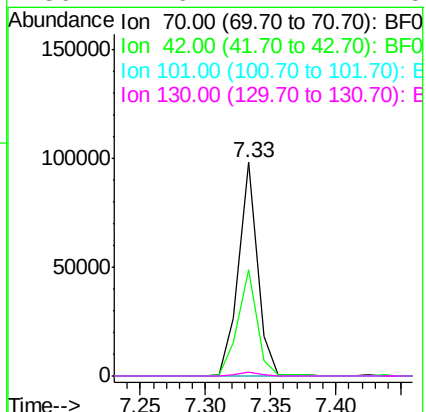
Ion Ratio Lower Upper

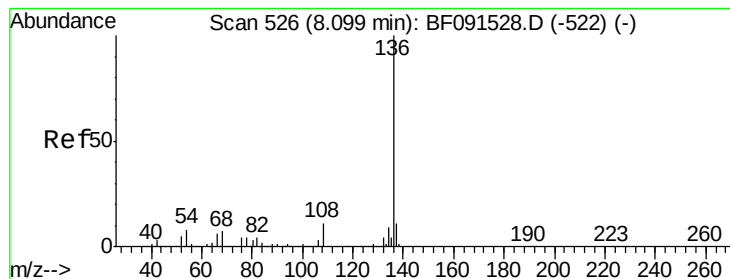
70 100

42 50.0 64.8 97.2#

101 0.0 6.2 9.4#

130 1.6 11.7 17.5#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

Tgt Ion: 136 Resp: 616632

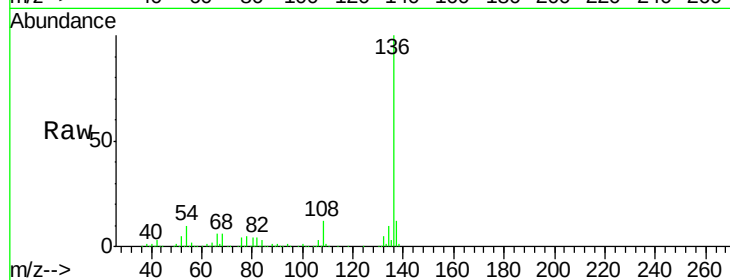
Ion Ratio Lower Upper

136 100

137 11.6 9.1 13.7

54 9.8 9.1 13.7

68 6.3 5.9 8.9

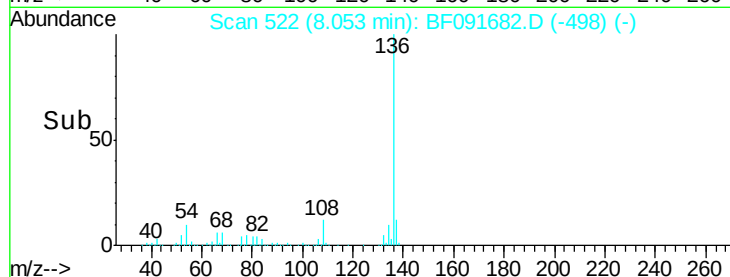


Abundance Ion 136.00 (135.70 to 136.70): E

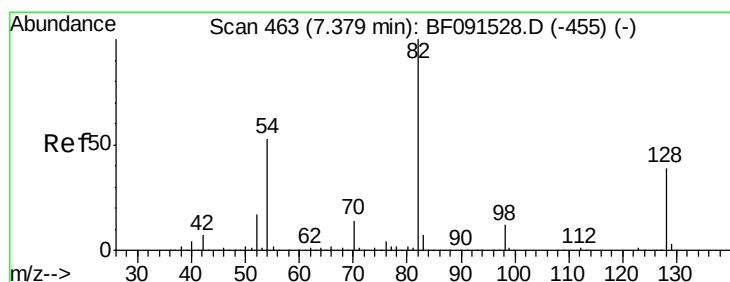
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 67.33 ng

RT: 7.33 min Scan# 459

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

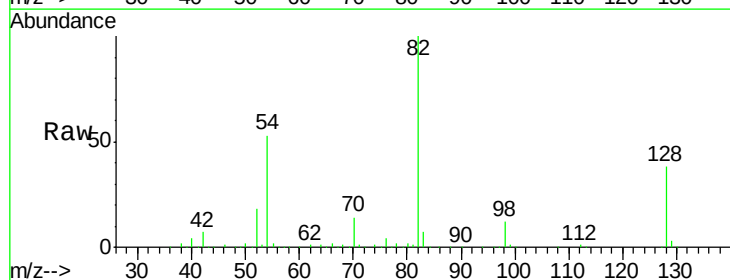
Tgt Ion: 82 Resp: 743927

Ion Ratio Lower Upper

82 100

128 37.5 31.8 47.6

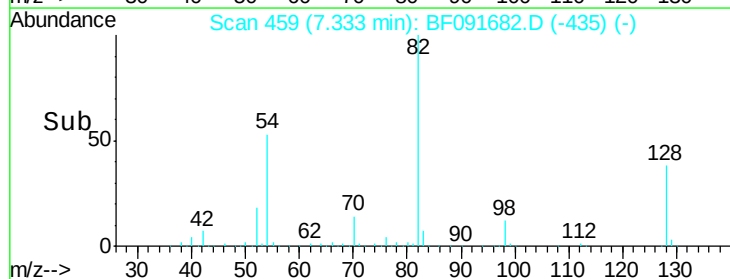
54 52.7 49.1 73.7



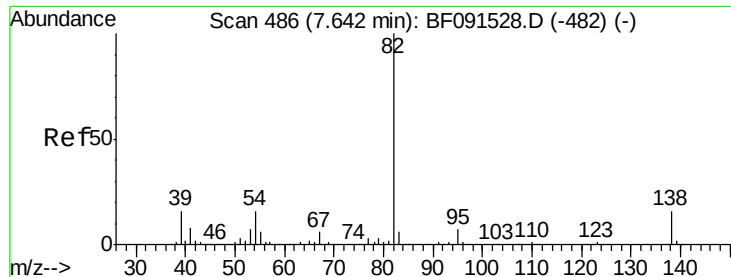
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



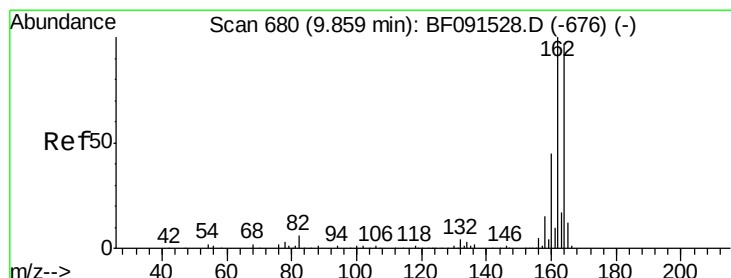
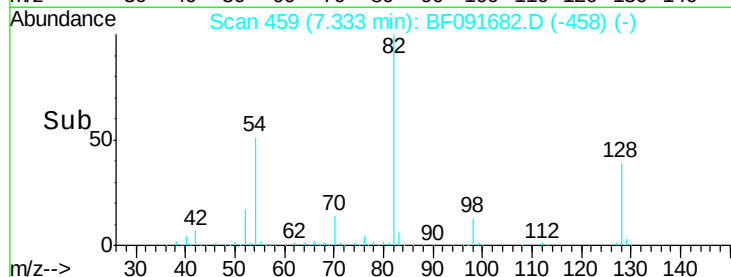
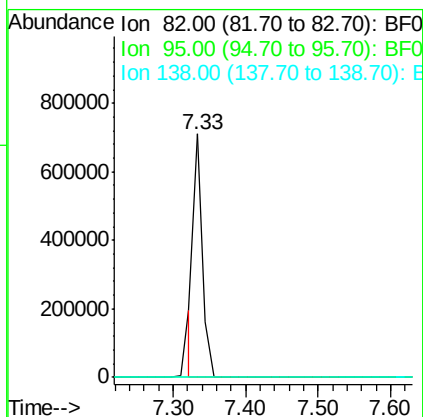
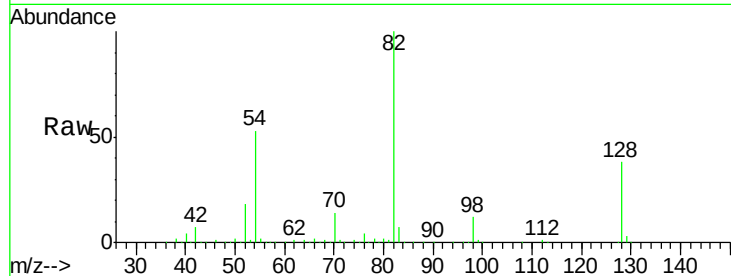
Time-->



#25
Isophorone
Concen: 30.91 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.29 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

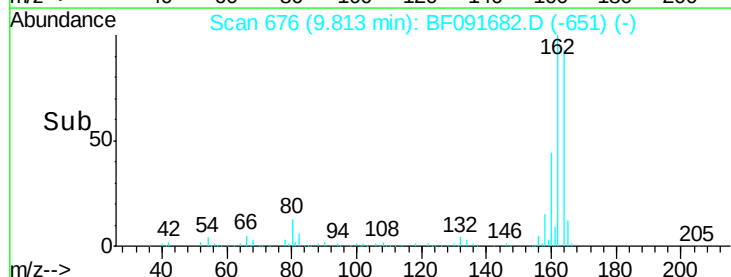
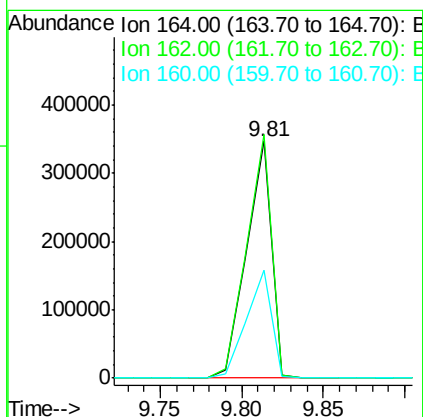
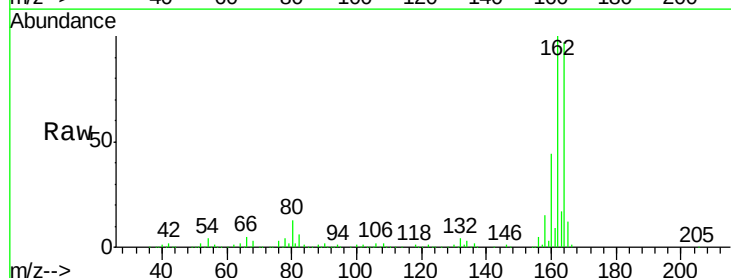
Instrument :
BNA_F
ClientSampleId :
DUP-C-121316

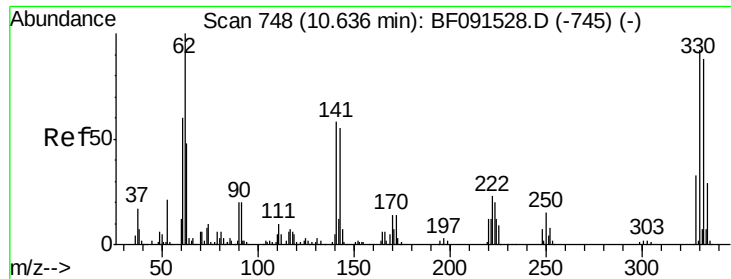
Tgt Ion: 82 Resp: 607022
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.4 20.0#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

Tgt Ion: 164 Resp: 367575
Ion Ratio Lower Upper
164 100
162 102.8 82.6 124.0
160 45.6 36.7 55.1

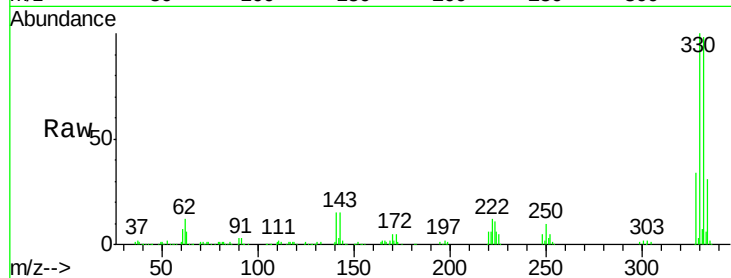




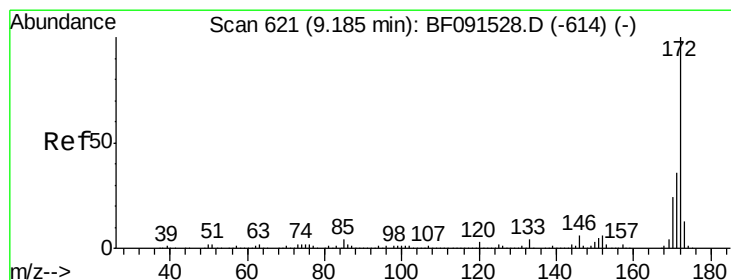
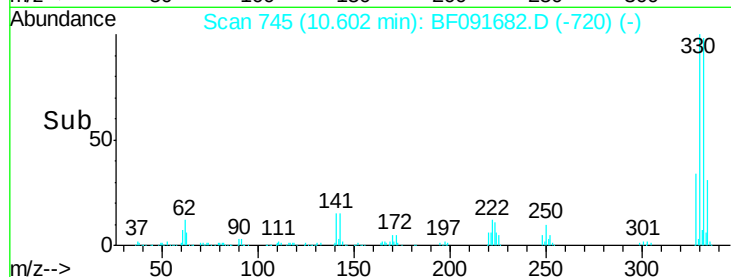
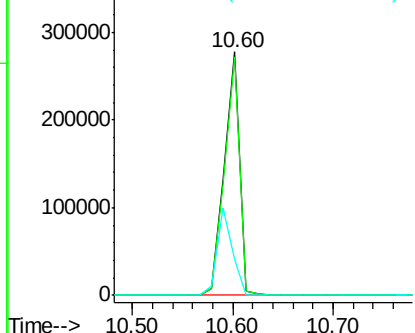
#41
 2,4,6-Tribromophenol
 Concen: 95.83 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF091682.D
 Acq: 16 Dec 2016 19:37

Instrument :
 BNA_F
 ClientSampleId :
 DUP-C-121316

Tgt Ion:330 Resp: 292569
 Ion Ratio Lower Upper
 330 100
 332 97.2 76.2 114.4
 141 36.2 33.6 50.4

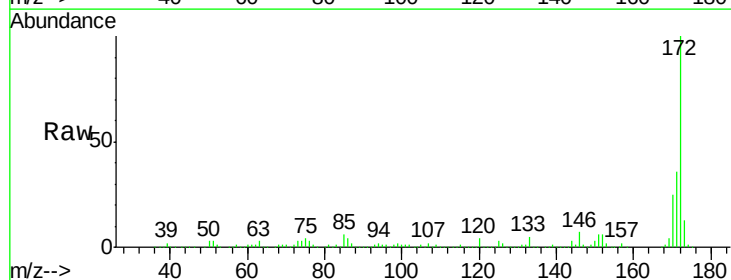


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

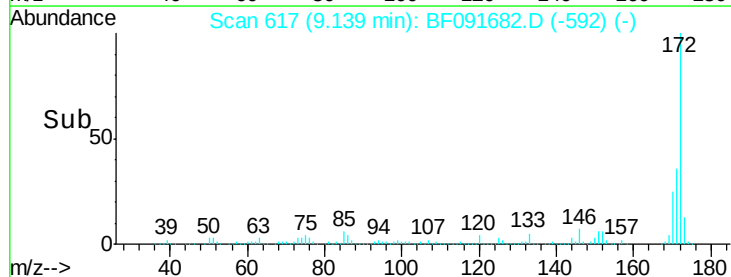
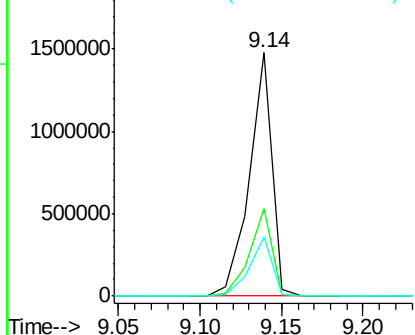


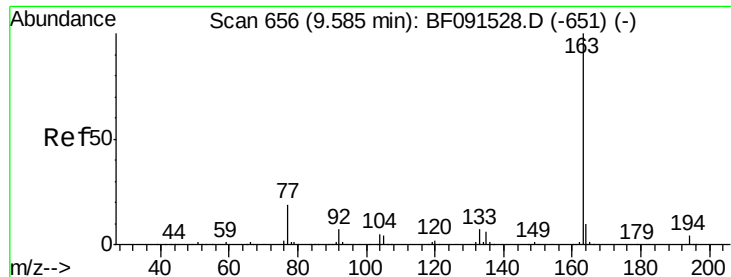
#44
 2-Fluorobiphenyl
 Concen: 66.62 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF091682.D
 Acq: 16 Dec 2016 19:37

Tgt Ion:172 Resp: 1417257
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.4 44.0
 170 24.6 19.7 29.5



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

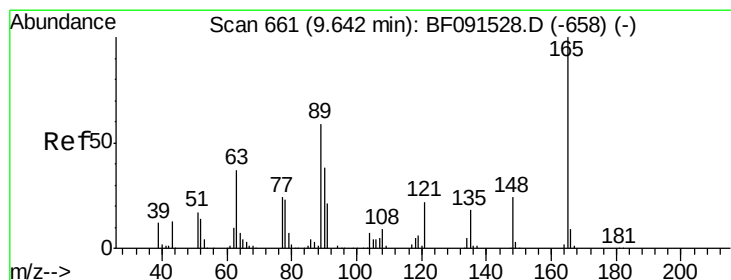
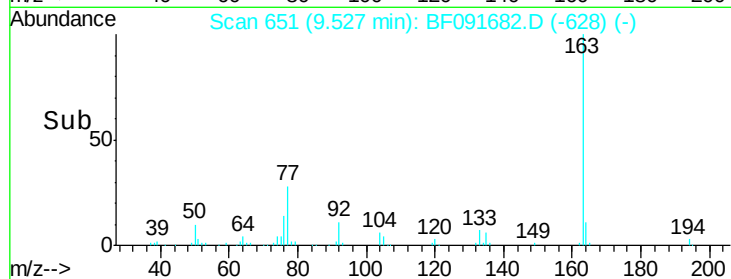
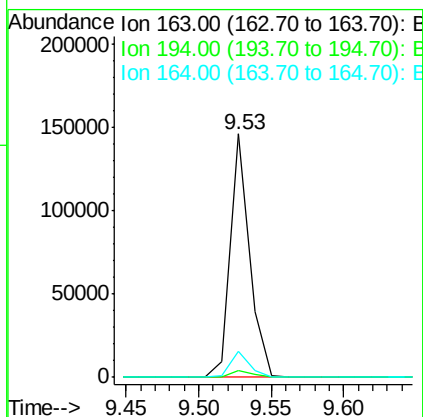
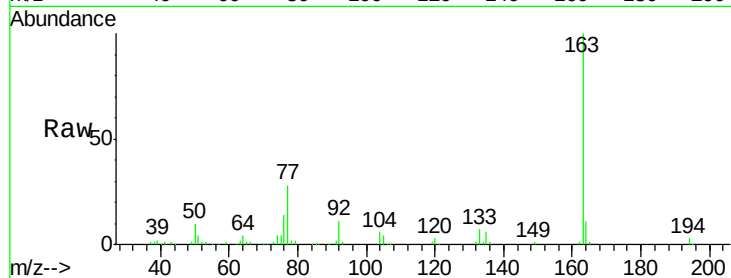




#49
Dimethylphthalate
Concen: 5.80 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.03 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

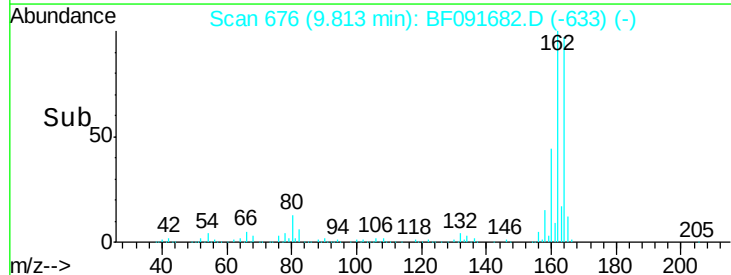
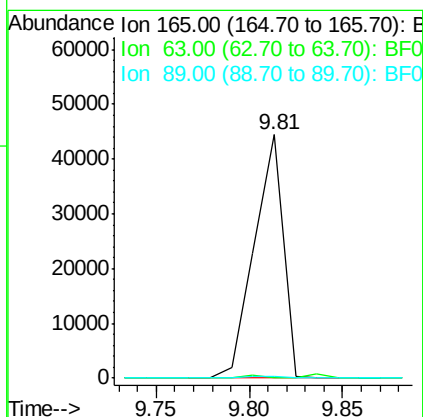
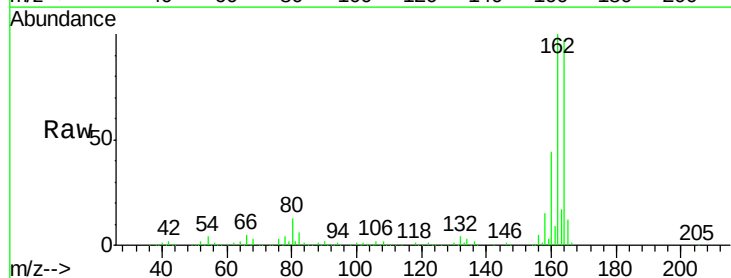
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BNA_F
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DUP-C-121316

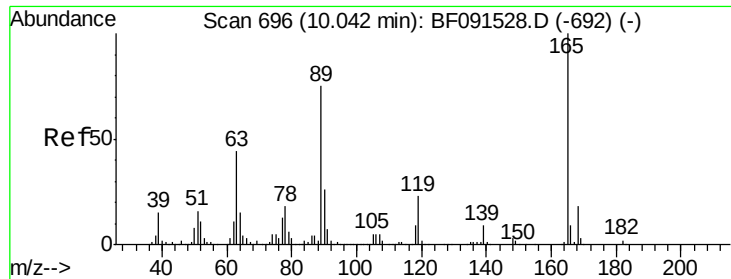
Tgt Ion:163 Resp: 134892
Ion Ratio Lower Upper
163 100
194 2.9 3.0 4.4#
164 10.6 7.8 11.8



#50
2,6-Dinitrotoluene
Concen: 9.34 ng
RT: 9.81 min Scan# 676
Delta R.T. 0.19 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

Tgt Ion:165 Resp: 47704
Ion Ratio Lower Upper
165 100
63 0.0 59.4 89.0#
89 0.8 50.8 76.2#

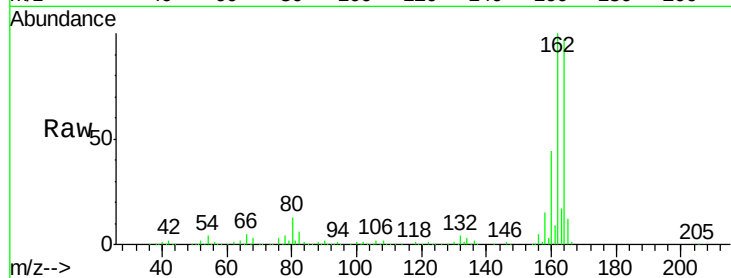




#56
2,4-Dinitrotoluene
Concen: 7.45 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.21 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

Instrument :
BNA_F
ClientSampleId :
DUP-C-121316

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	29.0	43.4#
89	0.8	43.1	64.7#
182	0.0	1.9	2.9#

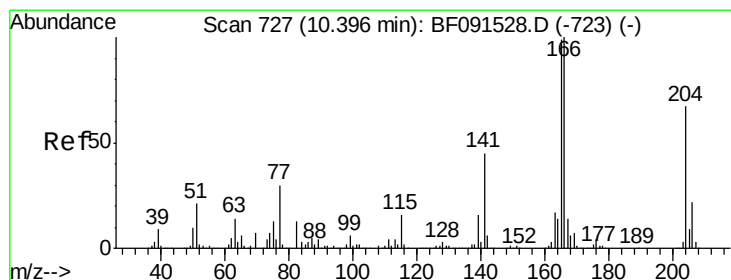
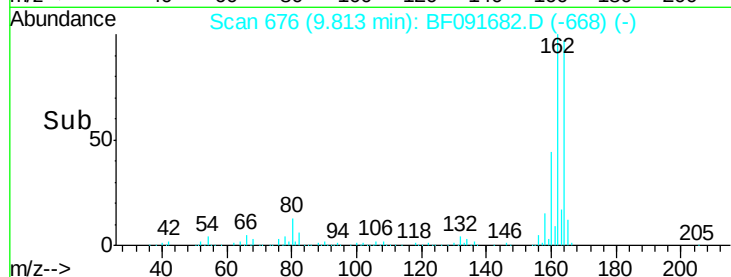
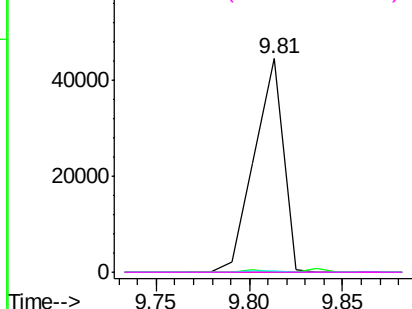


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

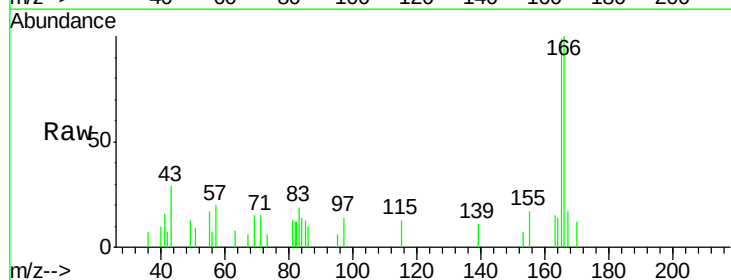
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: Below Cal
RT: 10.35 min Scan# 723
Delta R.T. -0.02 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

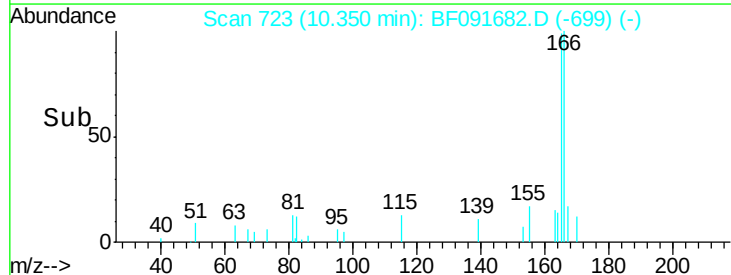
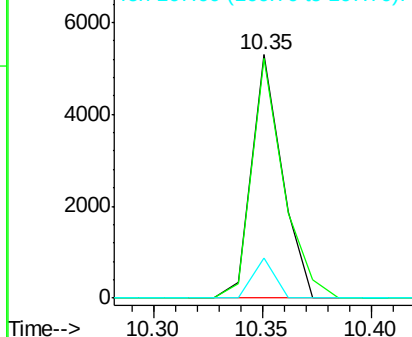
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.5	80.0	120.0
167	16.6	10.8	16.2#

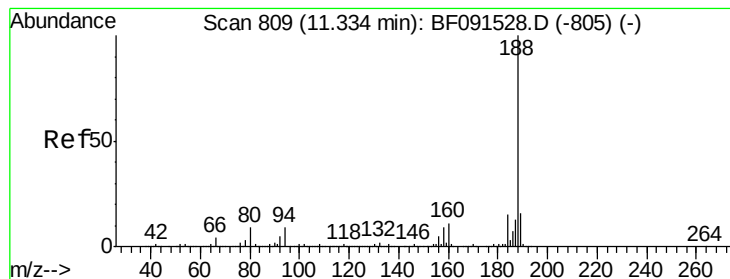


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.29 min Scan# 805

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

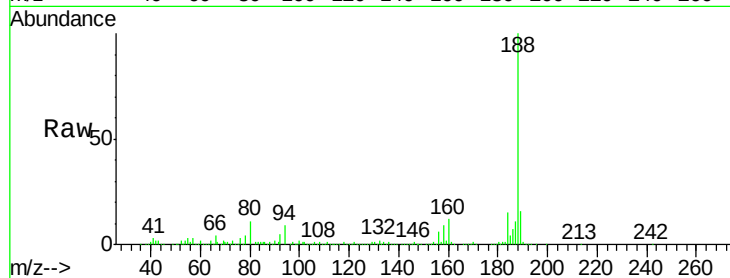
Tgt Ion:188 Resp: 555043

Ion Ratio Lower Upper

188 100

94 9.2 9.2 13.8#

80 10.7 10.5 15.7



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

11.29

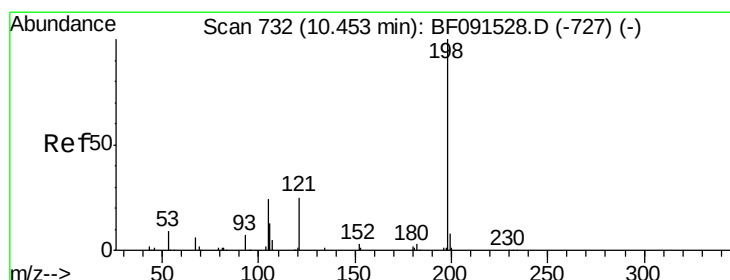
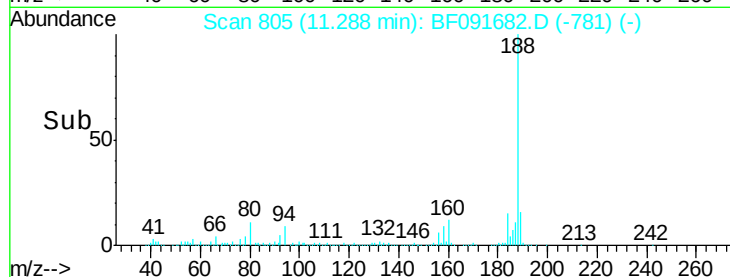
600000

400000

200000

0

Time--> 11.20 11.25 11.30 11.35



#64

4,6-Dinitro-2-methylphenol

Concen: 3.11 ng

RT: 10.59 min Scan# 744

Delta R.T. 0.16 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

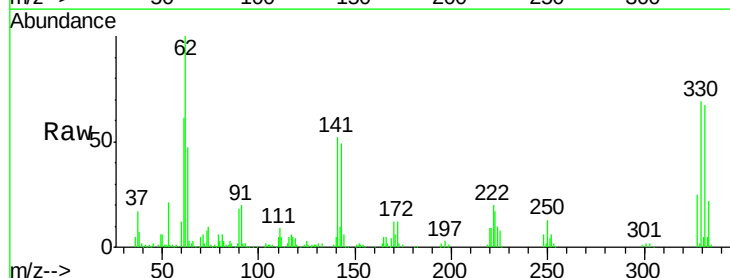
Tgt Ion:198 Resp: 600

Ion Ratio Lower Upper

198 100

51 301.5 77.1 117.1#

105 264.8 44.8 84.8#



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

2000

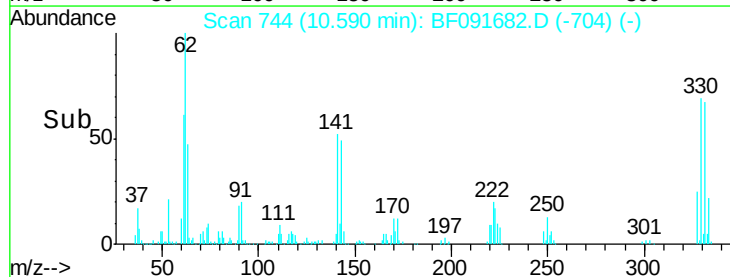
1500

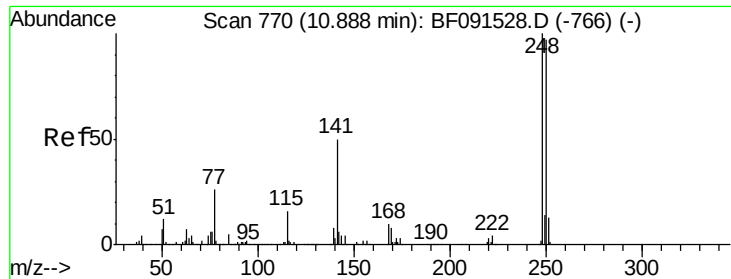
1000

500

0

Time--> 10.55 10.60

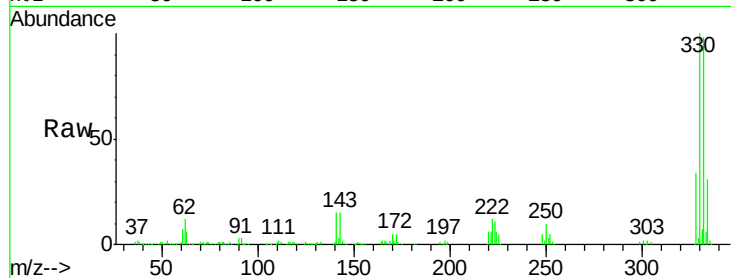




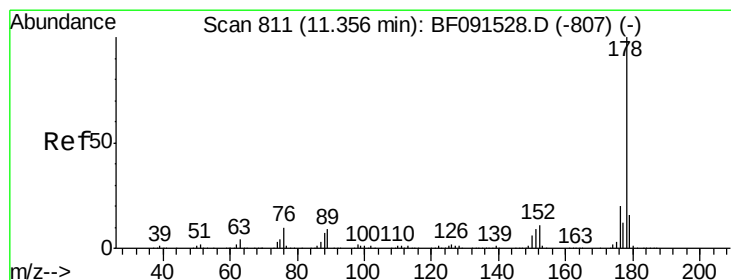
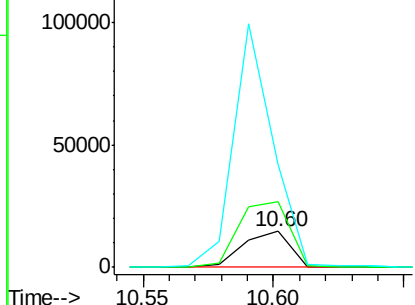
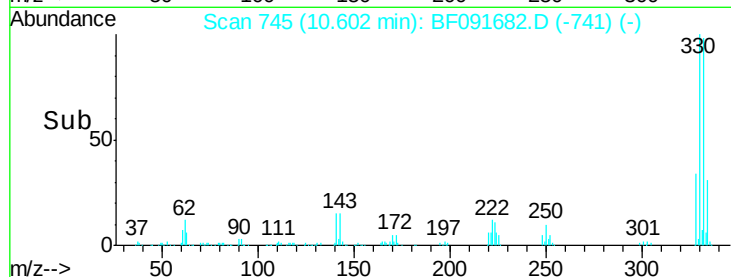
#66
 4-Bromophenyl-phenylether
 Concen: 3.20 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.25 min
 Lab File: BF091682.D
 Acq: 16 Dec 2016 19:37

Instrument :
 BNA_F
 ClientSampleId :
 DUP-C-121316

Tgt Ion:248 Resp: 18187
 Ion Ratio Lower Upper
 248 100
 250 182.8 78.2 117.4#
 141 286.5 71.9 107.9#

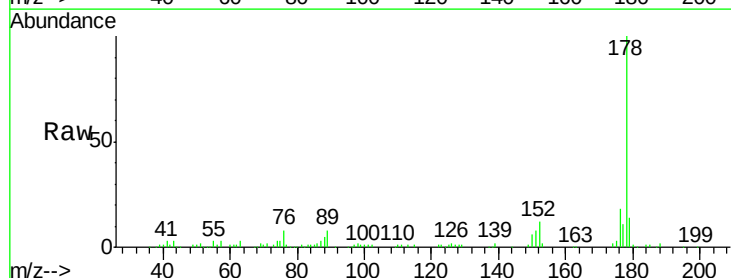


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

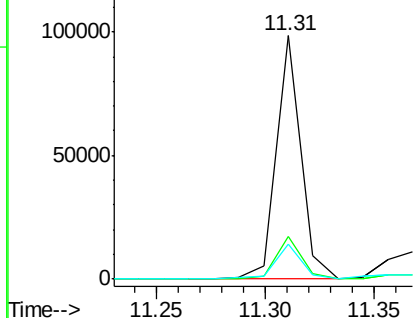
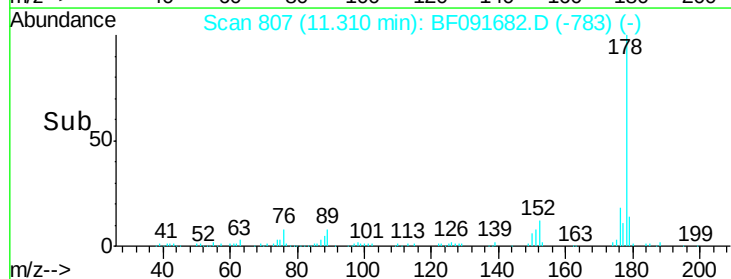


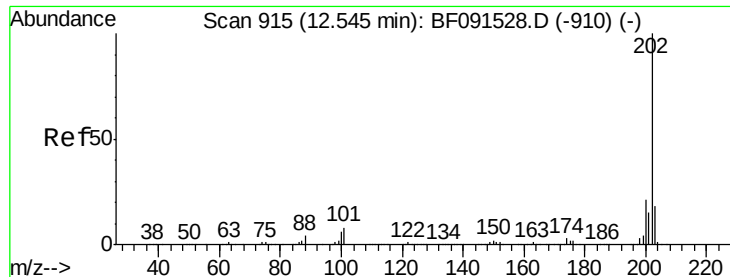
#70
 Phenanthrene
 Concen: 2.86 ng
 RT: 11.31 min Scan# 807
 Delta R.T. -0.02 min
 Lab File: BF091682.D
 Acq: 16 Dec 2016 19:37

Tgt Ion:178 Resp: 78473
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.9 23.9
 179 14.5 12.6 18.8



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: 3.96 ng

RT: 12.50 min Scan# 911

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

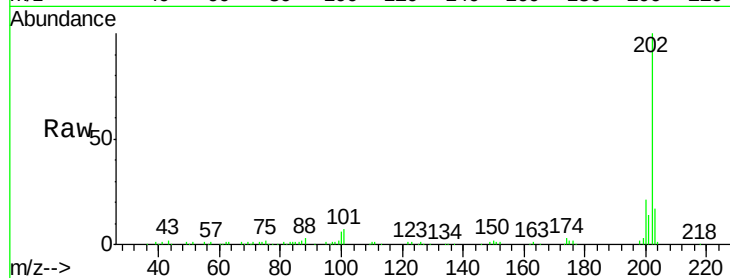
Tgt Ion:202 Resp: 113951

Ion Ratio Lower Upper

202 100

101 7.4 0.0 29.5

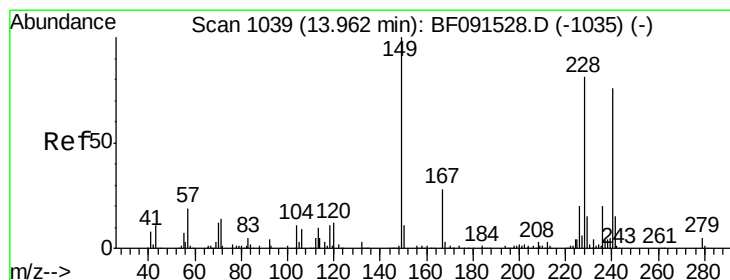
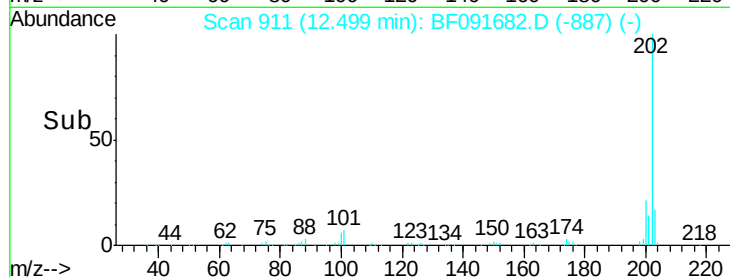
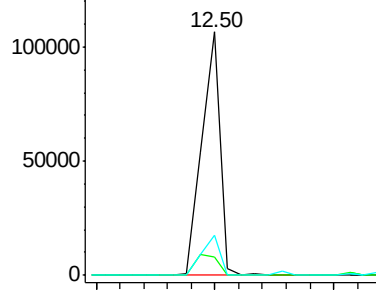
203 16.7 0.0 37.8



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: 13.92 min Scan# 1035

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

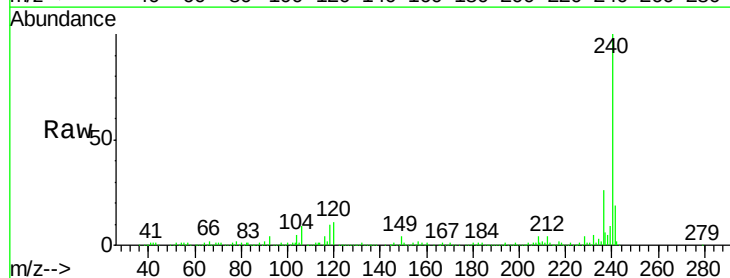
Tgt Ion:240 Resp: 385934

Ion Ratio Lower Upper

240 100

120 11.4 12.1 18.1#

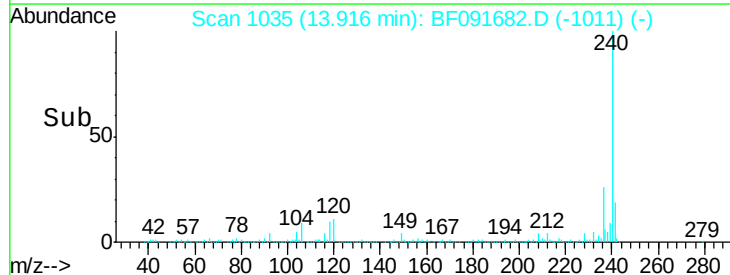
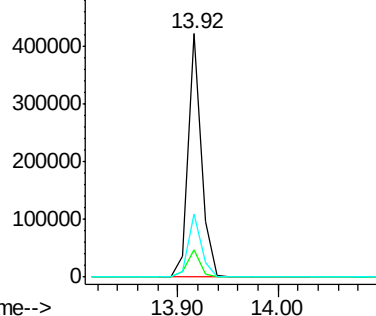
236 25.9 21.0 31.6

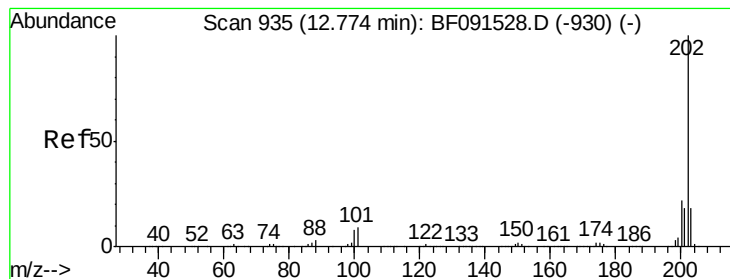


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 3.06 ng

RT: 12.73 min Scan# 931

Delta R.T. -0.01 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

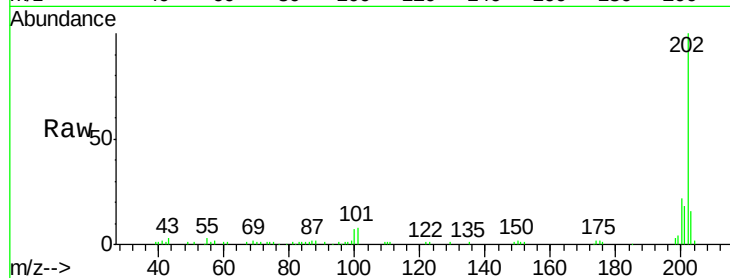
Tgt Ion: 202 Resp: 93845

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

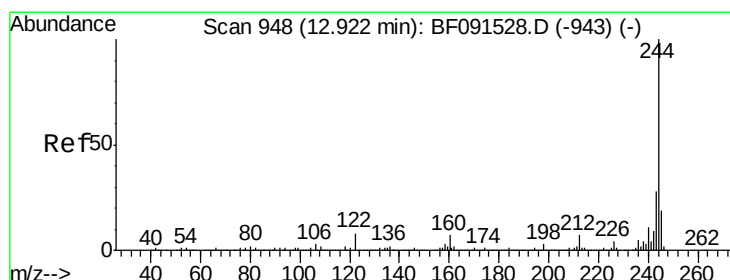
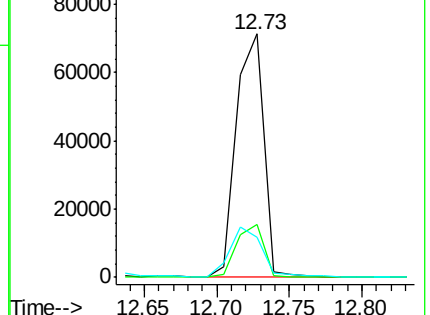
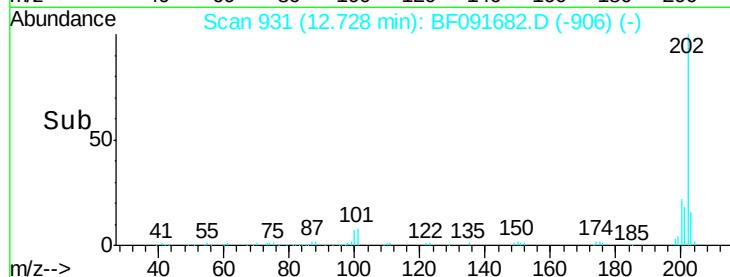
203 16.3 14.0 21.0



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: 65.15 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

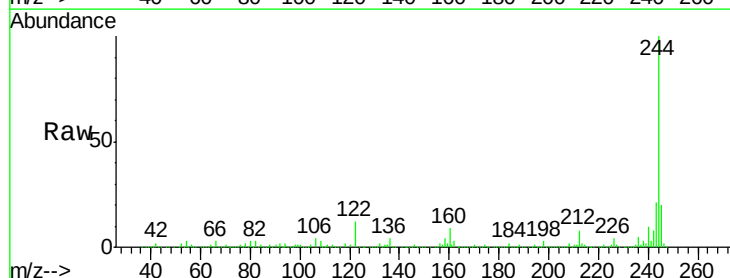
Tgt Ion: 244 Resp: 1108082

Ion Ratio Lower Upper

244 100

212 7.7 6.5 9.7

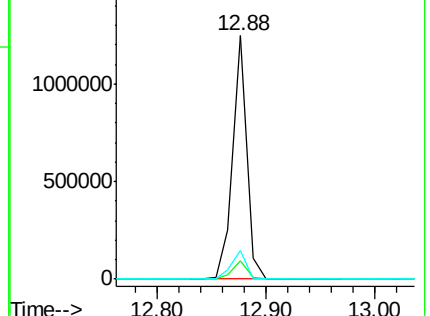
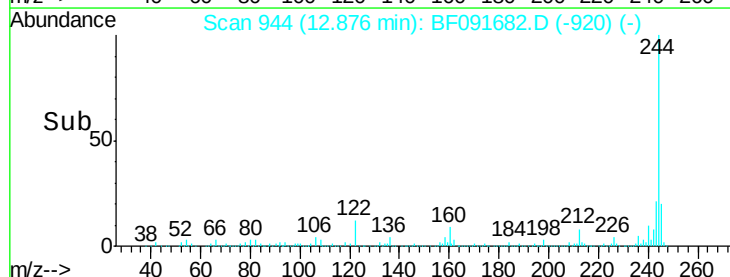
122 11.9 9.5 14.3

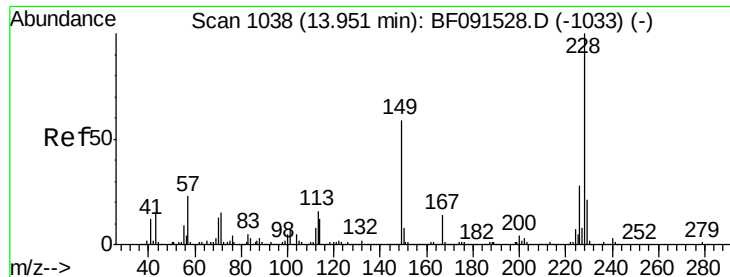


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.38 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316

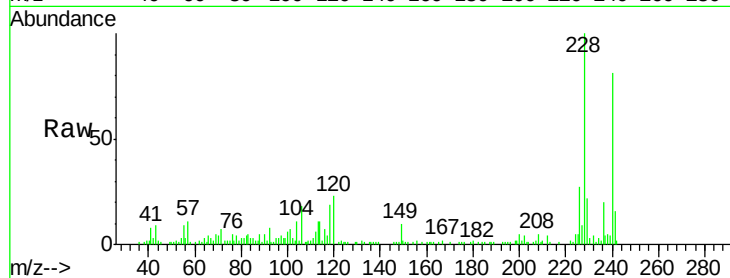
Tgt Ion:228 Resp: 53435

Ion Ratio Lower Upper

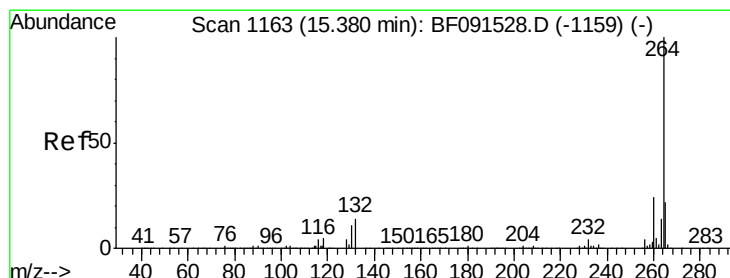
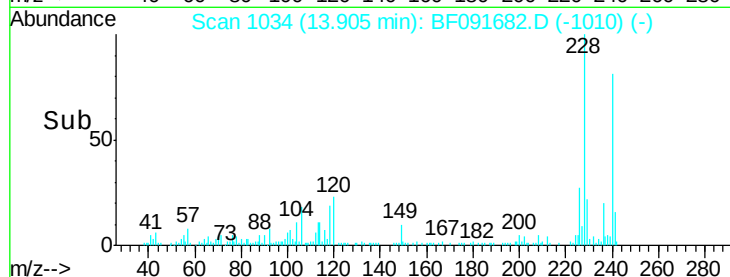
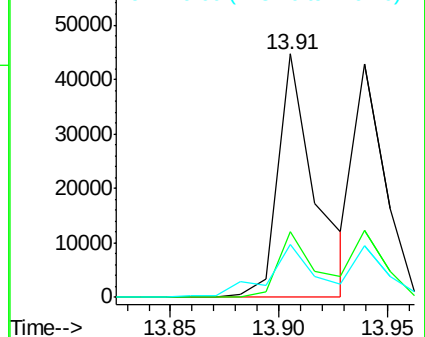
228 100

226 26.8 22.5 33.7

229 22.0 16.4 24.6



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: 15.32 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BF091682.D

Acq: 16 Dec 2016 19:37

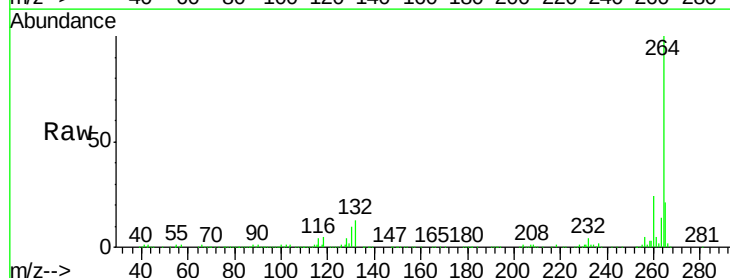
Tgt Ion:264 Resp: 318291

Ion Ratio Lower Upper

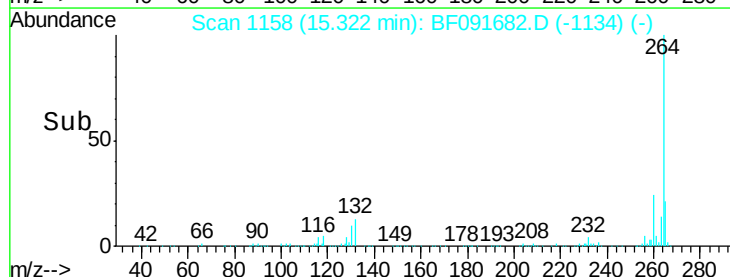
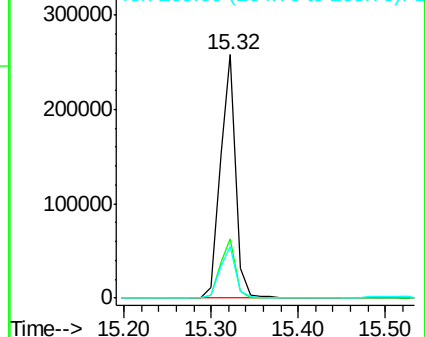
264 100

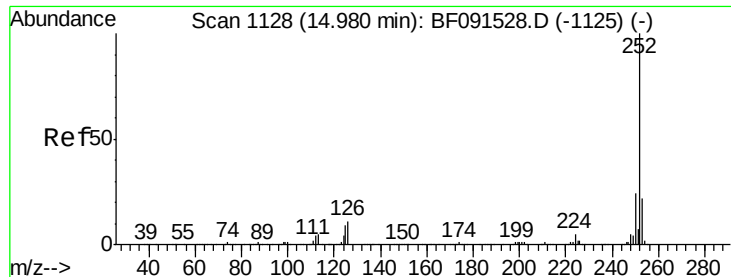
260 24.1 18.8 28.2

265 21.1 17.0 25.6



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

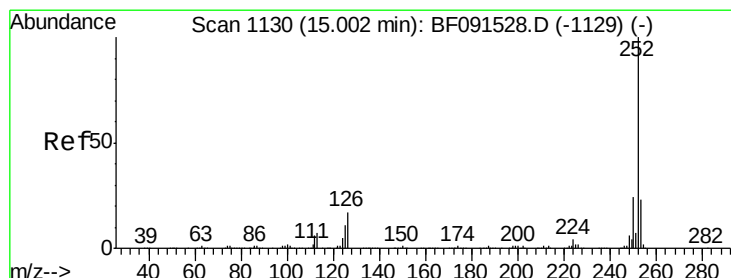
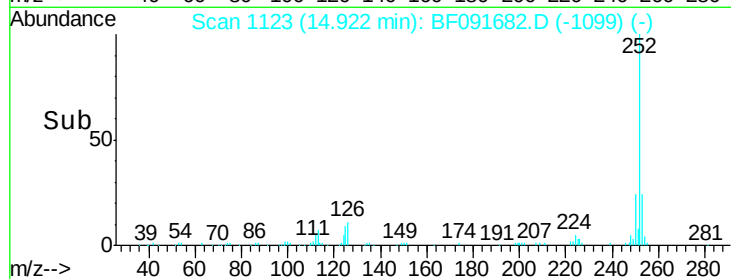
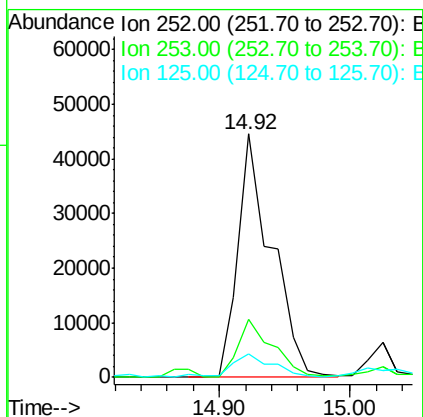
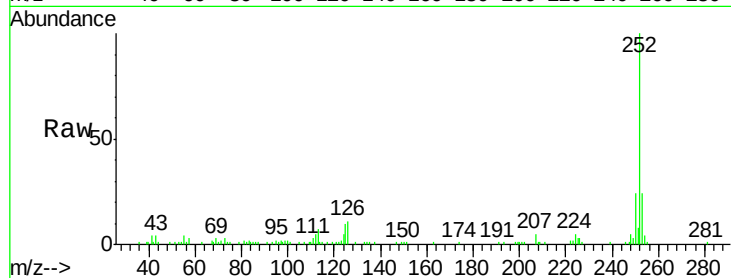




#87
Benzo(b)fluoranthene
Concen: 4.21 ng
RT: 14.92 min Scan# 1123
Delta R.T. -0.02 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

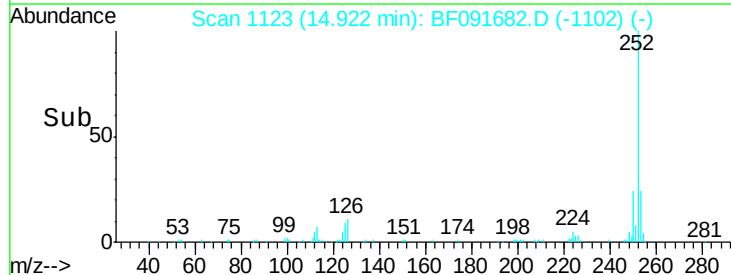
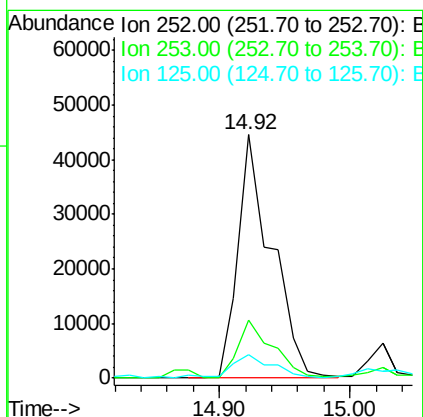
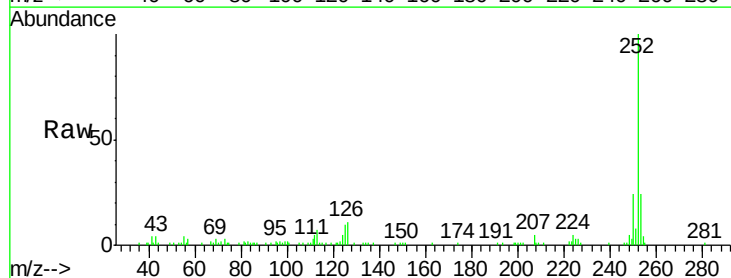
Instrument :
BNA_F
ClientSampleId :
DUP-C-121316

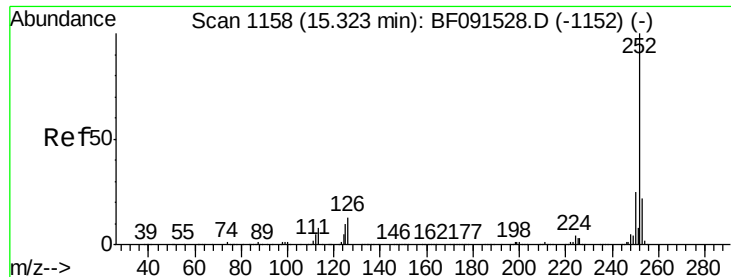
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	9.9	8.6	13.0



#88
Benzo(k)fluoranthene
Concen: 4.78 ng
RT: 14.92 min Scan# 1123
Delta R.T. -0.06 min
Lab File: BF091682.D
Acq: 16 Dec 2016 19:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.8
125	9.9	9.6	14.4





#89

Benzo(a)pyrene

Concen: 2.52 ng

RT: 15.25 min Scan# 1152

Delta R.T. -0.03 min

Lab File: BF091682.D

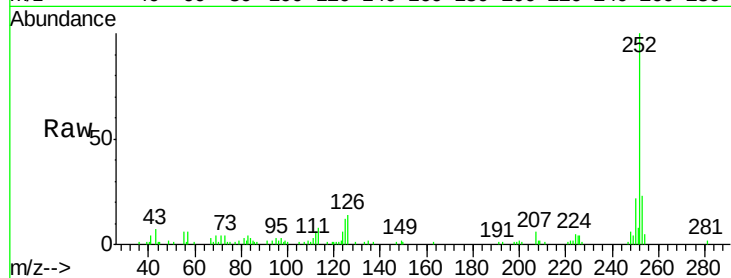
Acq: 16 Dec 2016 19:37

Instrument :

BNA_F

ClientSampleId :

DUP-C-121316



Tgt Ion:	252	Resp:	43157
Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.4
125	11.5	10.4	15.6

