

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102816\
 Data File : BF090908.D
 Acq On : 28 Oct 2016 14:21
 Operator : UM/SJ
 Sample : H5411-02DL 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 28 15:17:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 27 18:46:43 2016
 Response via : Initial Calibration

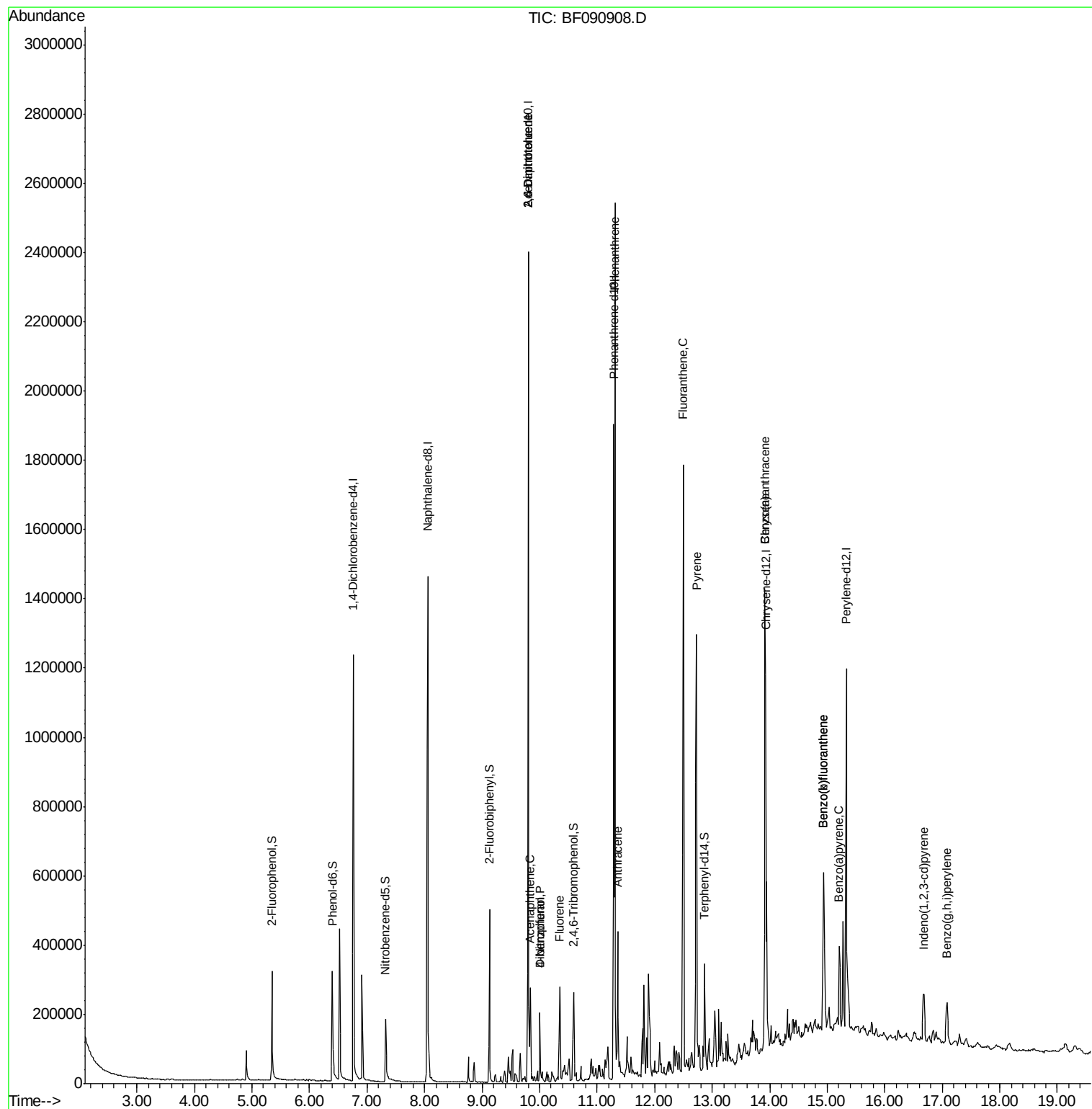
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	208478	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	887608	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	447335	20.00	ng	-0.02
63) Phenanthrene-d10	11.29	188	701725	20.00	ng	-0.02
75) Chrysene-d12	13.93	240	459505	20.00	ng	-0.02
86) Perylene-d12	15.33	264	447795	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	108024	9.06	ng	-0.02
7) Phenol-d6	6.40	99	155650	9.68	ng	-0.02
23) Nitrobenzene-d5	7.32	82	97688	7.20	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	21632	4.71	ng	-0.02
44) 2-Fluorobiphenyl	9.13	172	159412	6.26	ng	-0.02
78) Terphenyl-d14	12.87	244	100509	5.51	ng	-0.03
Target Compounds						
50) 2,6-Dinitrotoluene	9.80	165	60974	9.24	ng	# 39
51) Acenaphthene	9.84	154	62033	2.43	ng	86
54) Dibenzofuran	10.01	168	72967	2.21	ng	# 88
55) 4-Nitrophenol	10.01	139	30451	7.11	ng	# 28
56) 2,4-Dinitrotoluene	9.80	165	61606	7.51	ng	# 33
57) Fluorene	10.35	166	89195	3.30	ng	93
70) Phenanthrene	11.31	178	834484	23.35	ng	96
71) Anthracene	11.36	178	198429	5.27	ng	98
74) Fluoranthene	12.50	202	721586	18.44	ng	91
77) Pyrene	12.73	202	611568	21.03	ng	96
80) Benzo(a)anthracene	13.92	228	284177	11.65	ng	94
82) Chrysene	13.92	228	284177	11.52	ng	96
85) Indeno(1,2,3-cd)pyrene	16.67	276	98886	4.52	ng	# 89
87) Benzo(b)fluoranthene	14.93	252	307005	10.20	ng	# 90
88) Benzo(k)fluoranthene	14.93	252	307005	12.90	ng	# 91
89) Benzo(a)pyrene	15.21	252	121776	4.71	ng	97
91) Benzo(a,h,i)perylene	17.08	276	88964	4.31	ng	# 82

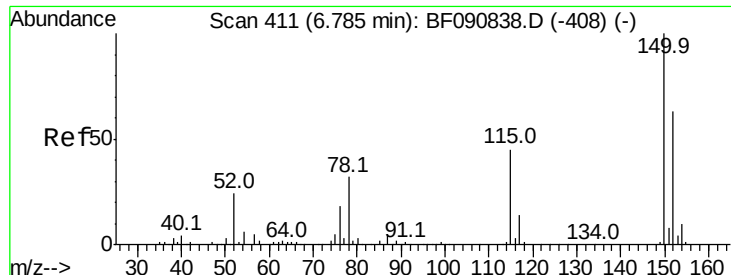
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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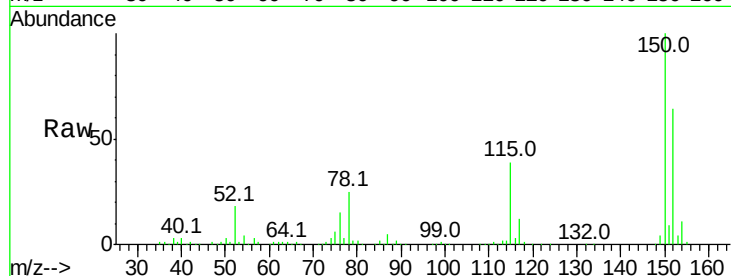


#1

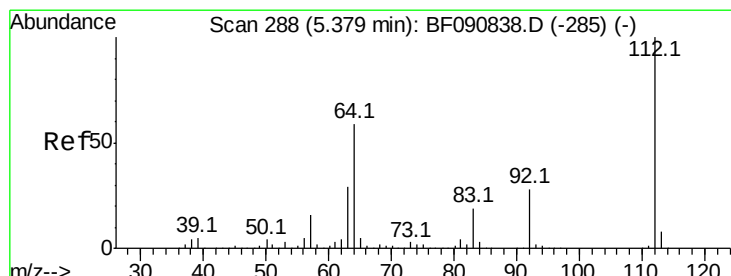
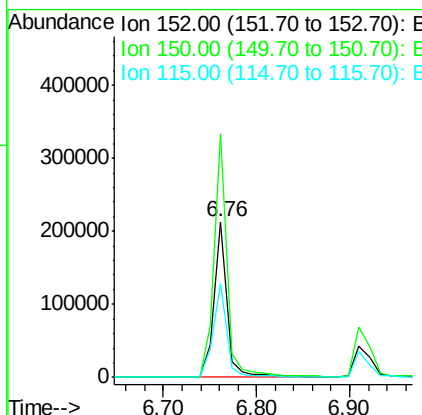
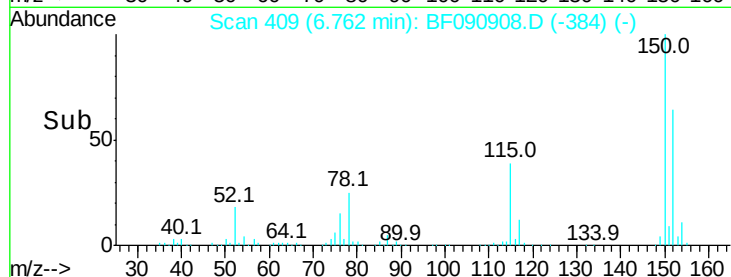
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. -0.01 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 208478
Ion Ratio Lower Upper
152 100
150 156.5 124.7 187.1
115 60.4 39.0 58.4#



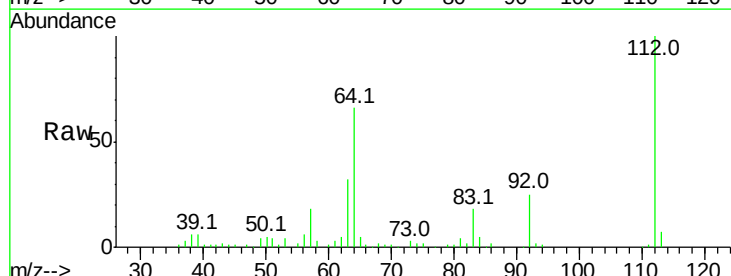
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



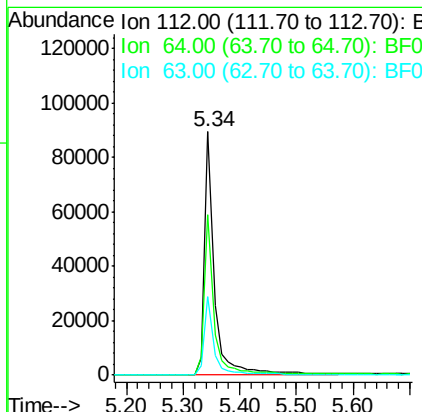
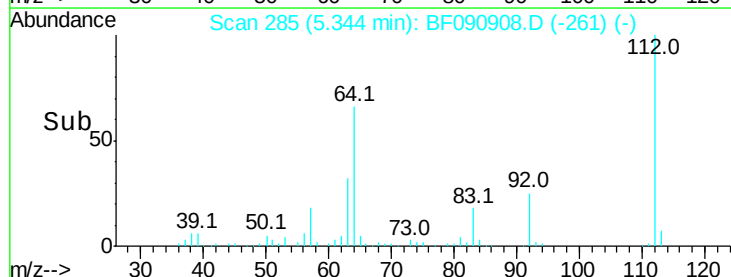
#5

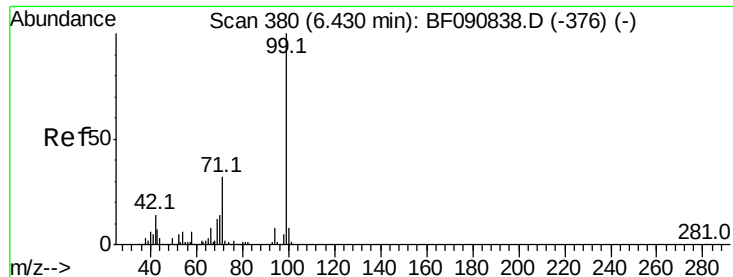
2-Fluorophenol
Concen: 9.06 ng
RT: 5.34 min Scan# 285
Delta R.T. -0.02 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Tgt Ion:112 Resp: 108024
Ion Ratio Lower Upper
112 100
64 66.0 39.7 59.5#
63 32.2 17.4 26.0#



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





#7

Phenol-d6

Concen: 9.68 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

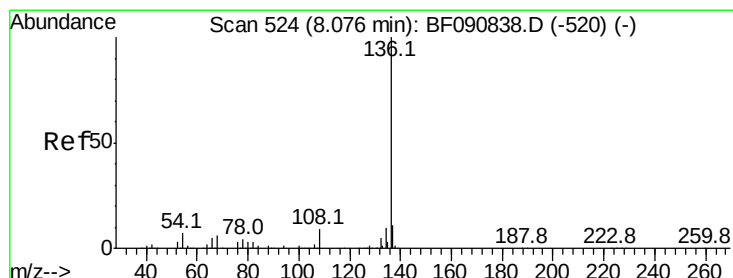
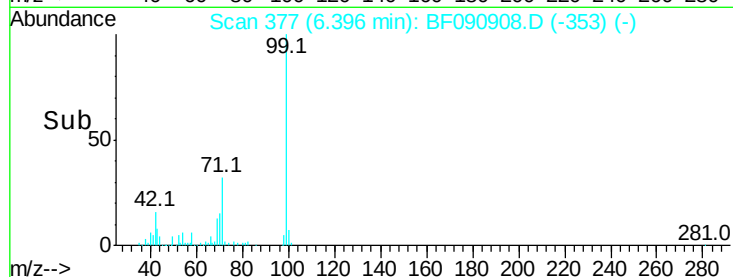
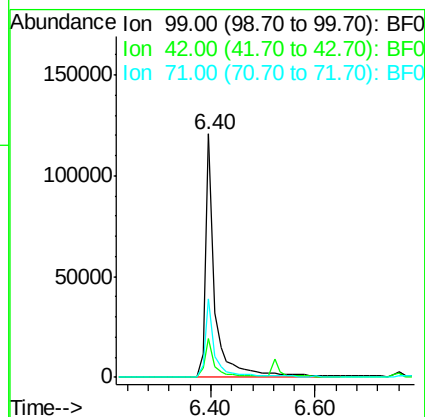
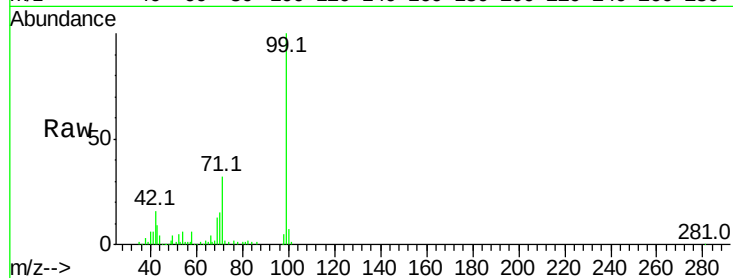
Tot Ion: 99 Resp: 155650

Ion Ratio Lower Upper

99 100

42 15.9 13.7 20.5

71 32.4 14.2 21.2#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Tgt Ion: 136 Resp: 887608

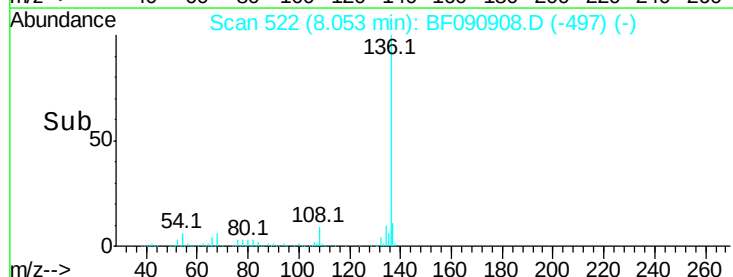
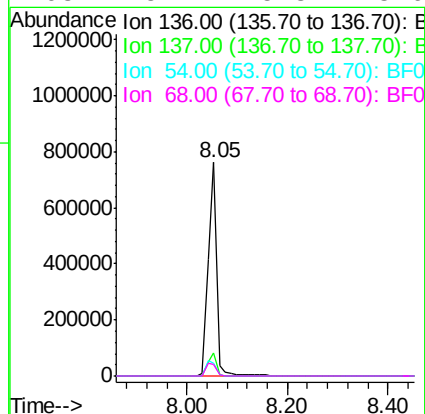
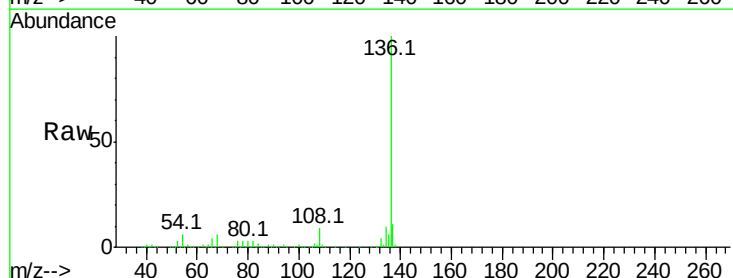
Ion Ratio Lower Upper

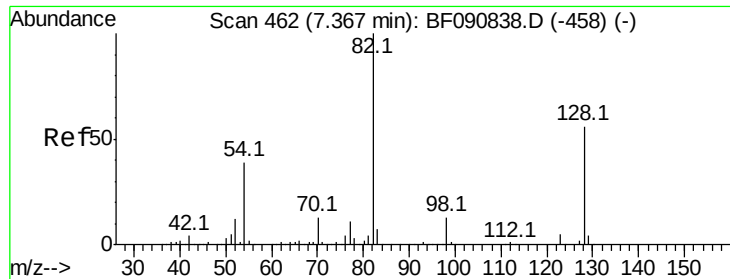
136 100

137 10.8 9.0 13.6

54 6.3 8.2 12.2#

68 5.7 5.8 8.6#

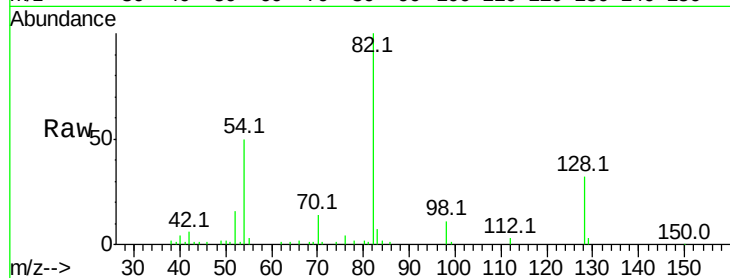




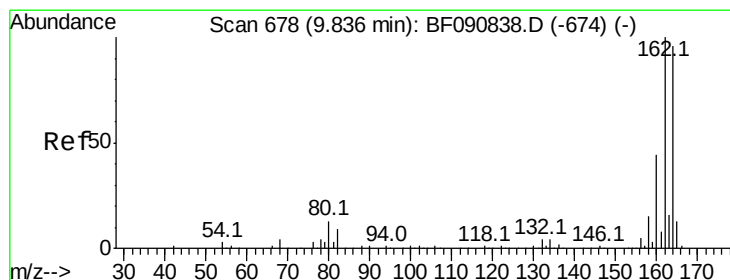
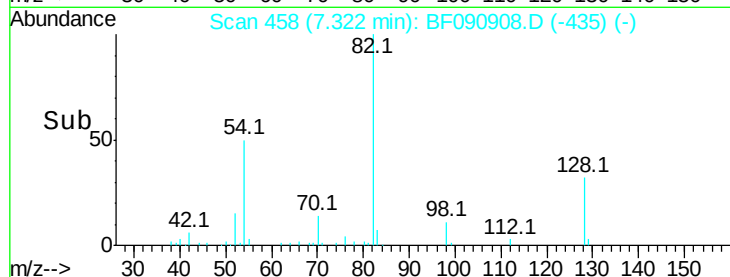
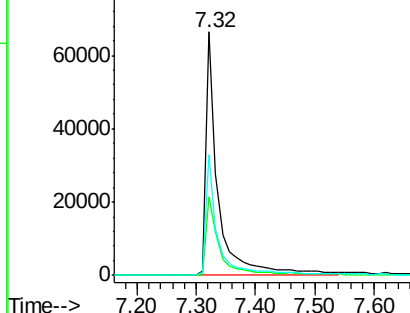
#23
 Nitrobenzene-d5
 Concen: 7.20 ng
 RT: 7.32 min Scan# 458
 Delta R.T. -0.03 min
 Lab File: BF090908.D
 Acq: 28 Oct 2016 14:21

Instrument :
 BNA_F
 ClientSampled :

Tot Ion: 82 Resp: 97688
 Ion Ratio Lower Upper
 82 100
 128 32.1 51.0 76.6#
 54 49.8 47.5 71.3

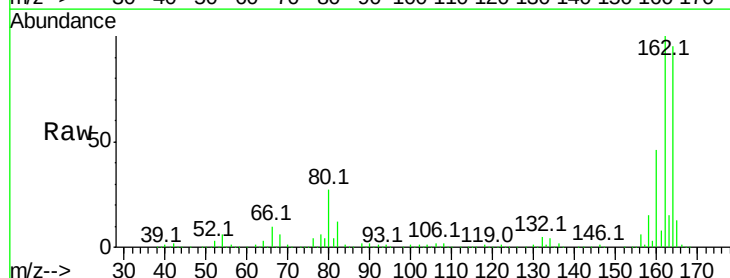


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

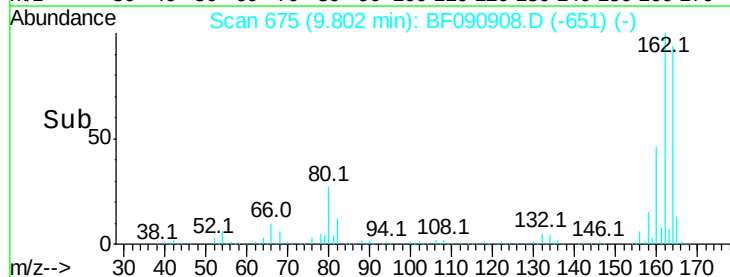
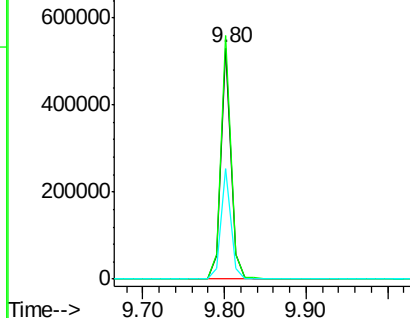


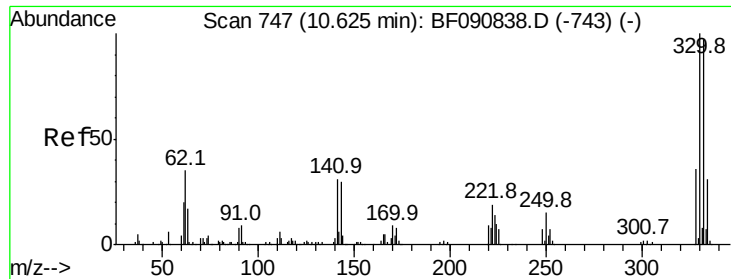
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.80 min Scan# 675
 Delta R.T. -0.02 min
 Lab File: BF090908.D
 Acq: 28 Oct 2016 14:21

Tgt Ion:164 Resp: 447335
 Ion Ratio Lower Upper
 164 100
 162 105.4 75.2 112.8
 160 48.0 31.5 47.3#



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

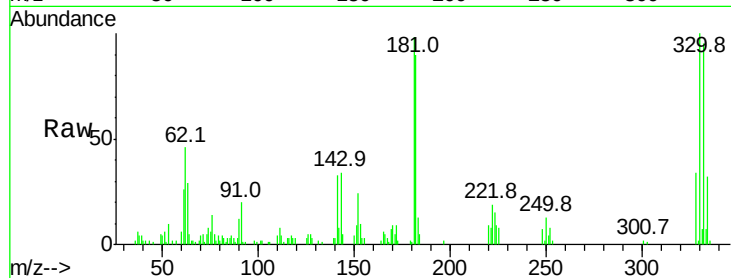




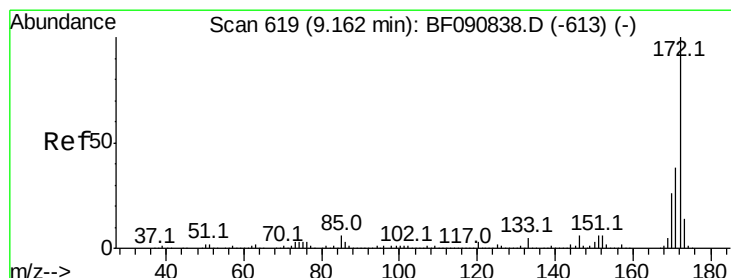
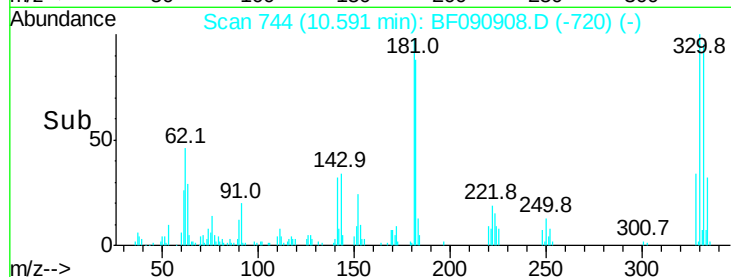
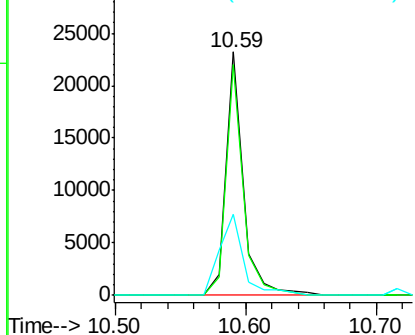
#41
 2,4,6-Tribromophenol
 Concen: 4.71 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.02 min
 Lab File: BF090908.D
 Acq: 28 Oct 2016 14:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 21632
 Ion Ratio Lower Upper
 330 100
 332 93.6 76.6 114.8
 141 46.1 29.7 44.5#

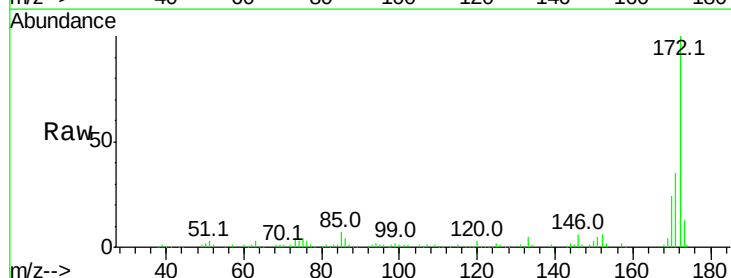


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

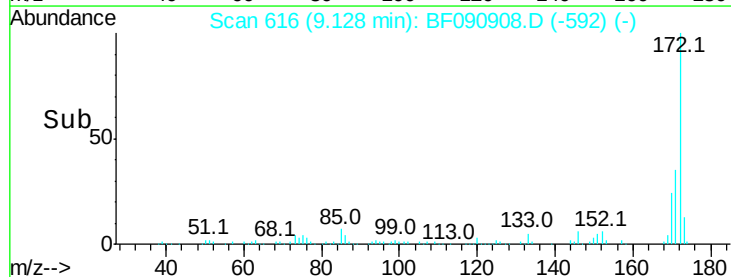
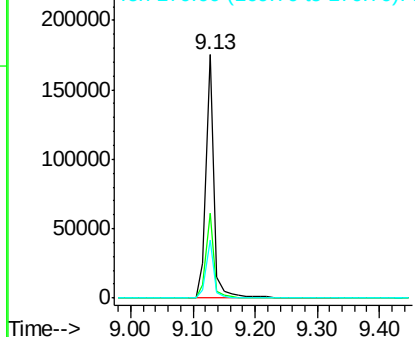


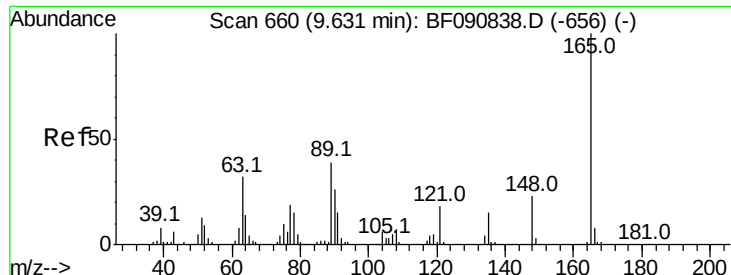
#44
 2-Fluorobiphenyl
 Concen: 6.26 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.02 min
 Lab File: BF090908.D
 Acq: 28 Oct 2016 14:21

Tgt Ion:172 Resp: 159412
 Ion Ratio Lower Upper
 172 100
 171 34.8 26.1 39.1
 170 23.9 17.4 26.2



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





#50

2,6-Dinitrotoluene

Concen: 9.24 ng

RT: 9.80 min Scan# 675

Delta R.T. 0.18 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :
BNA_F
ClientSampleId :

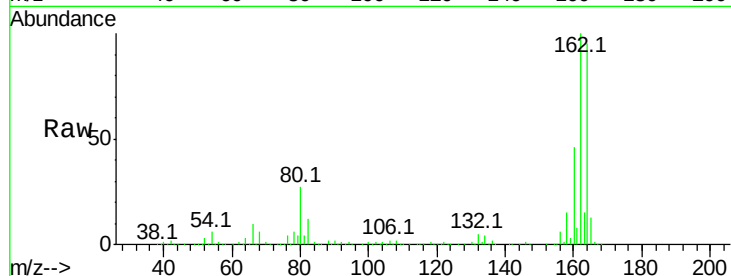
Tot Ion:165 Resp: 60974

Ion Ratio Lower Upper

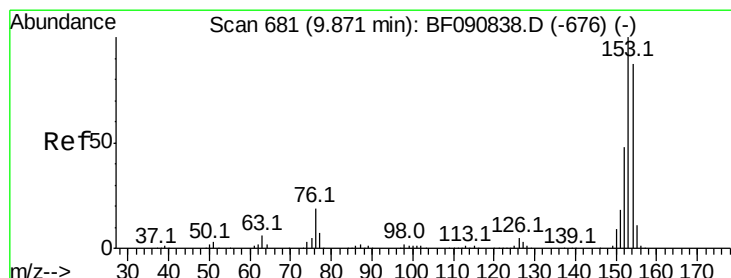
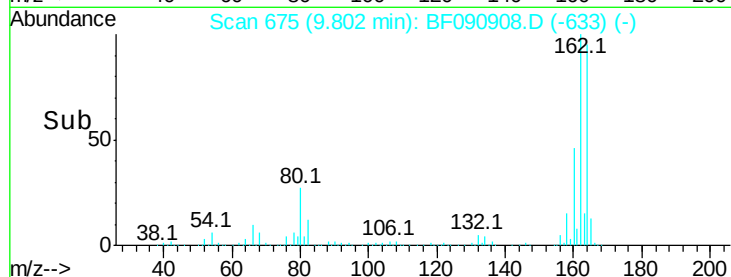
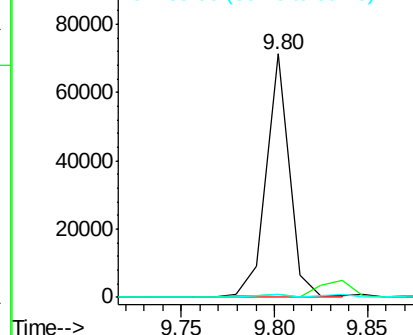
165 100

63 1.1 32.3 48.5#

89 1.3 28.6 43.0#



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



#51

Acenaphthene

Concen: 2.43 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

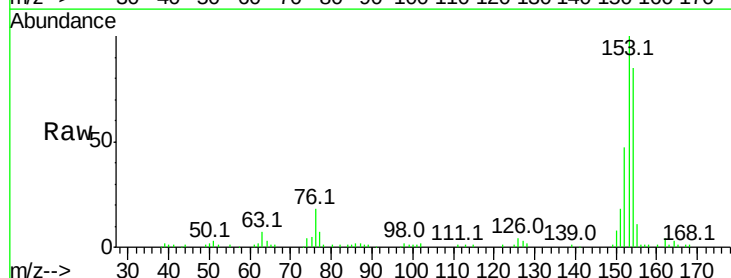
Tgt Ion:154 Resp: 62033

Ion Ratio Lower Upper

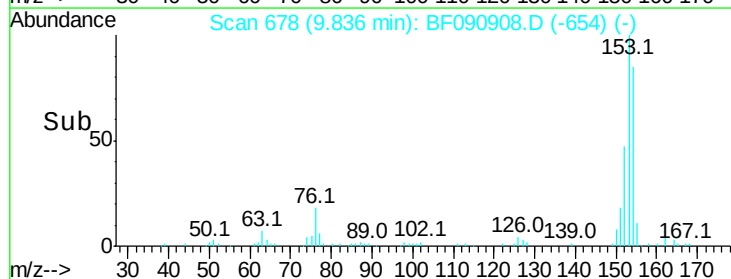
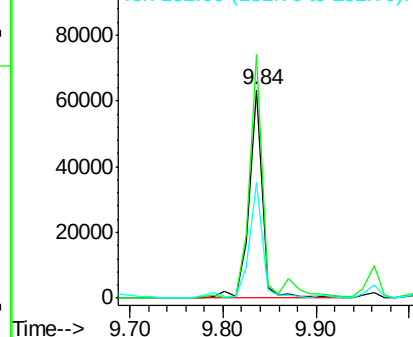
154 100

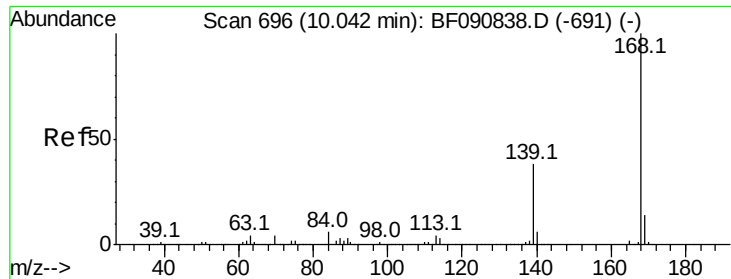
153 117.0 82.1 123.1

152 55.4 37.9 56.9



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

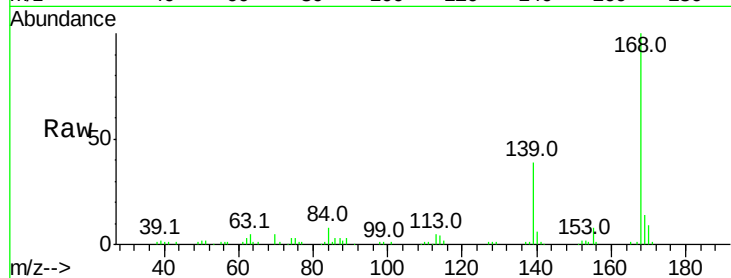




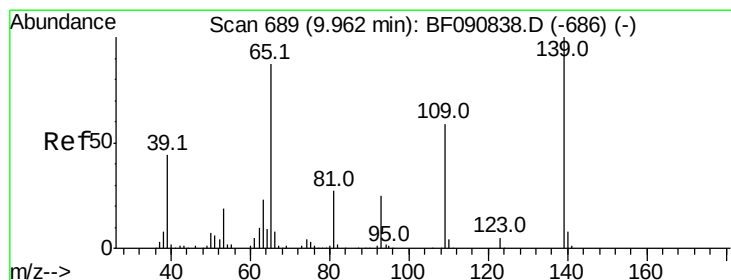
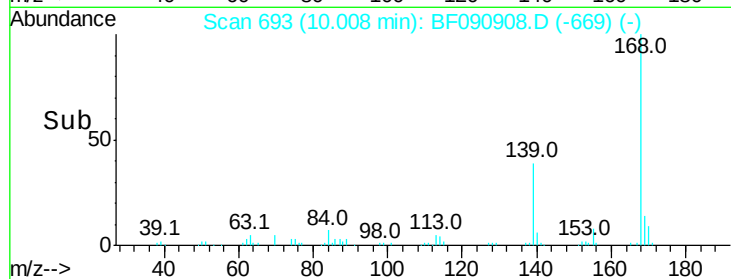
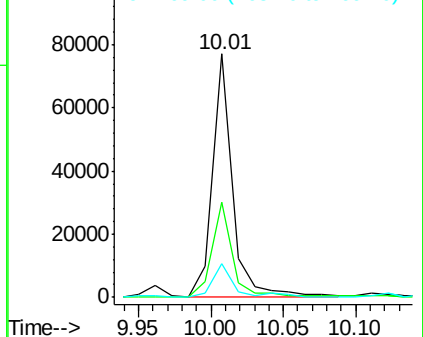
#54
Dibenzofuran
Concen: 2.21 ng
RT: 10.01 min Scan# 693
Delta R.T. -0.02 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:168 Resp: 72967
Ion Ratio Lower Upper
168 100
139 39.2 24.2 36.2#
169 14.0 10.6 15.8

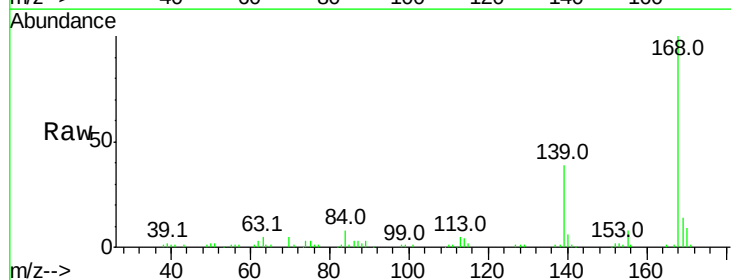


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

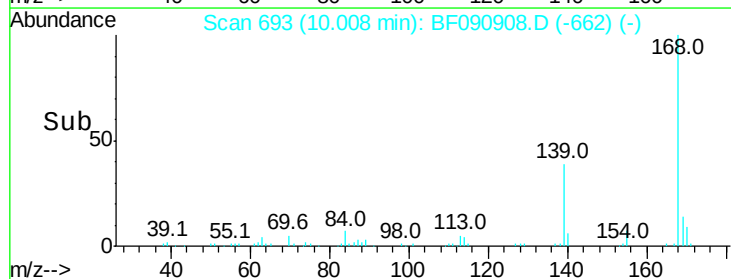
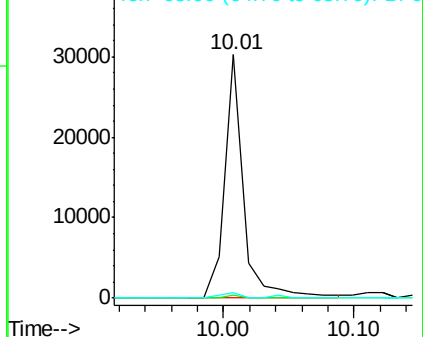


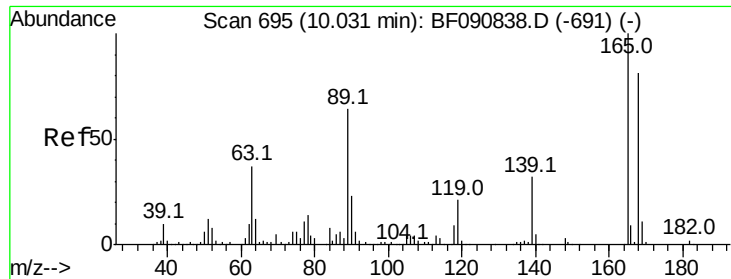
#55
4-Nitrophenol
Concen: 7.11 ng
RT: 10.01 min Scan# 693
Delta R.T. 0.06 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Tgt Ion:139 Resp: 30451
Ion Ratio Lower Upper
139 100
109 1.2 12.7 52.7#
65 2.0 45.9 85.9#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

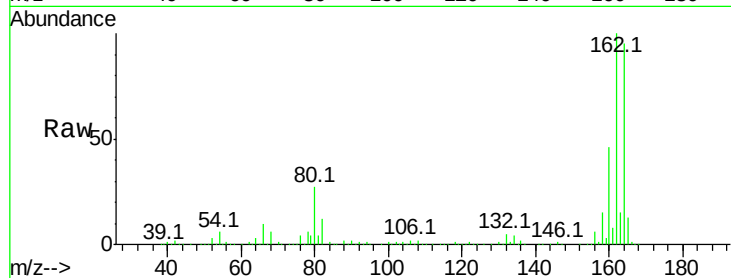




#56
2,4-Dinitrotoluene
Concen: 7.51 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.22 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	29.8	44.6#
89	1.3	44.5	66.7#
182	0.0	3.0	4.4#

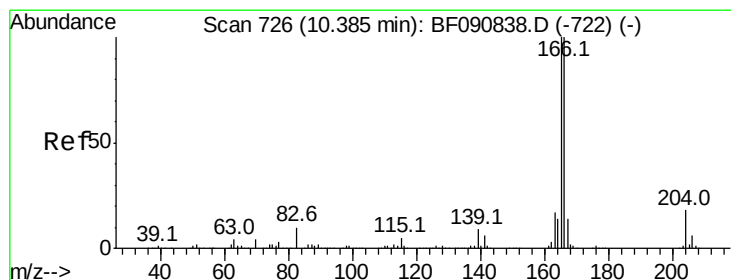
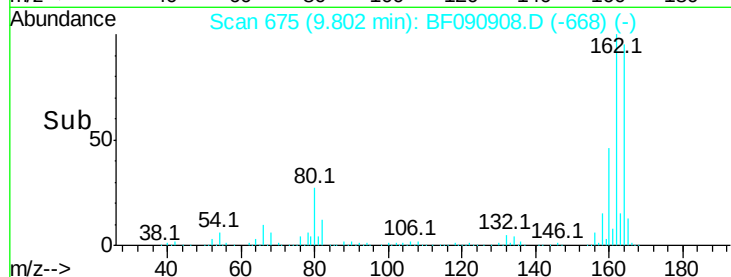
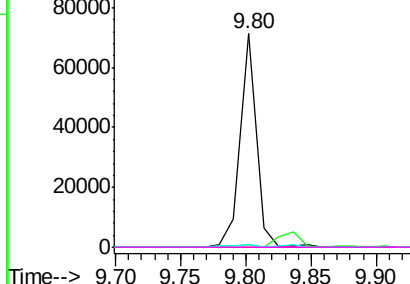


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

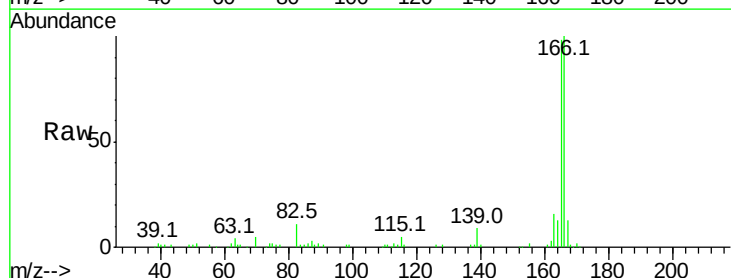
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 3.30 ng
RT: 10.35 min Scan# 723
Delta R.T. -0.02 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

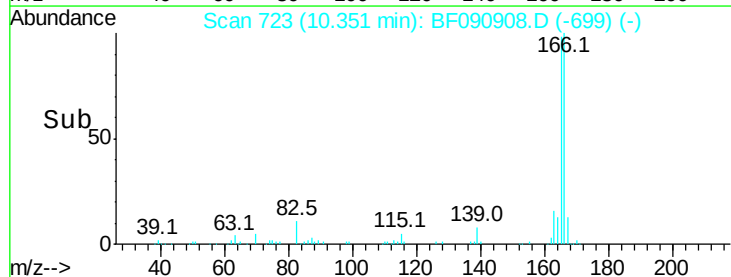
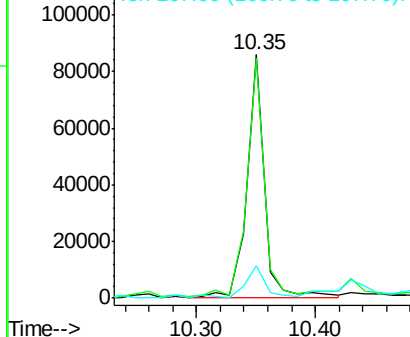
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.4	72.6	109.0
167	13.3	10.6	16.0

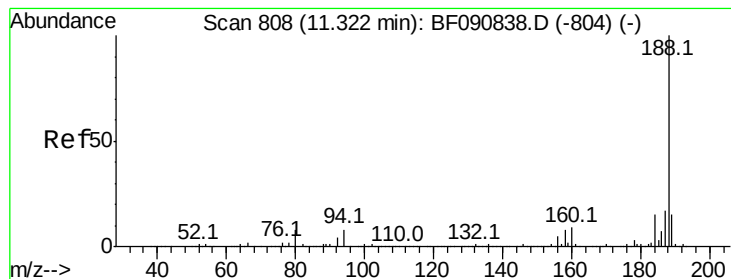


Abundance Ion 166.00 (165.70 to 166.70): E

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: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

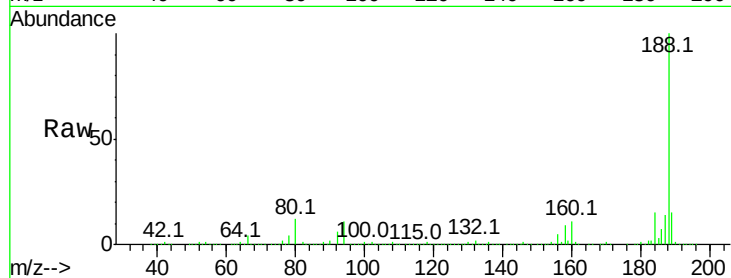
Tot Ion:188 Resp: 701725

Ion Ratio Lower Upper

188 100

94 10.9 11.1 16.7#

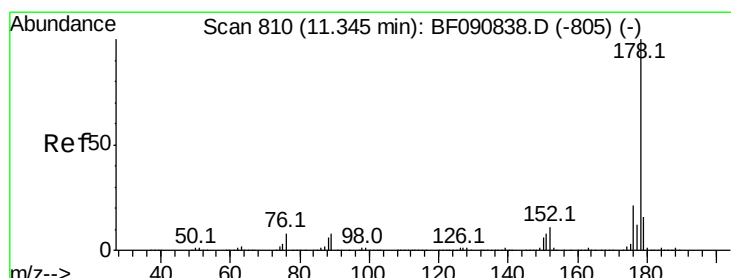
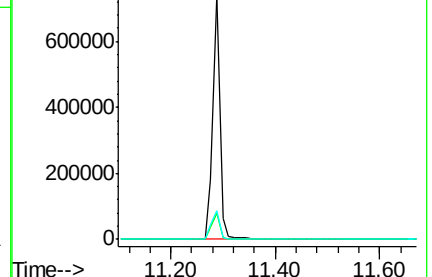
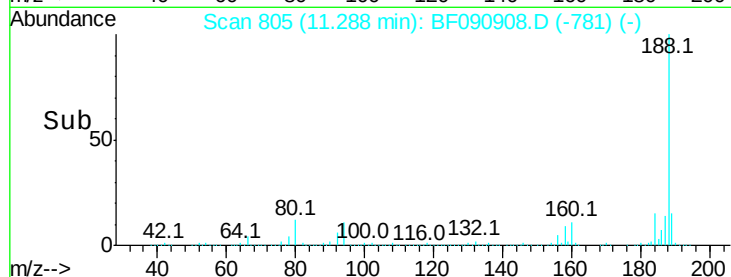
80 11.8 11.0 16.4



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: 23.35 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

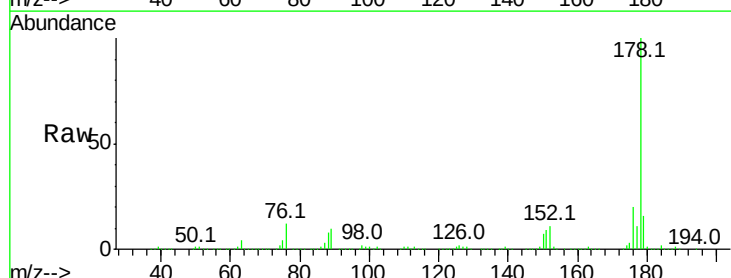
Tgt Ion:178 Resp: 834484

Ion Ratio Lower Upper

178 100

176 20.1 13.8 20.8

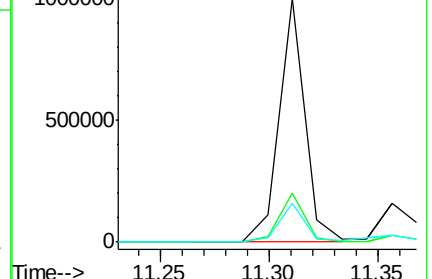
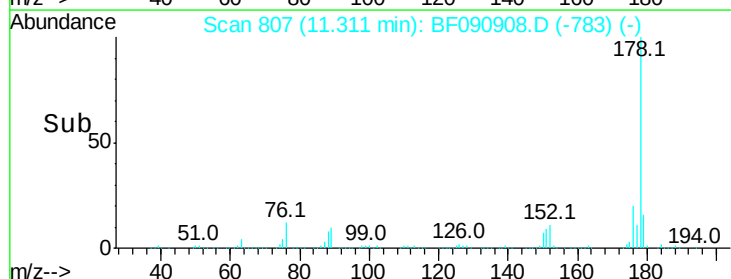
179 15.8 12.2 18.2

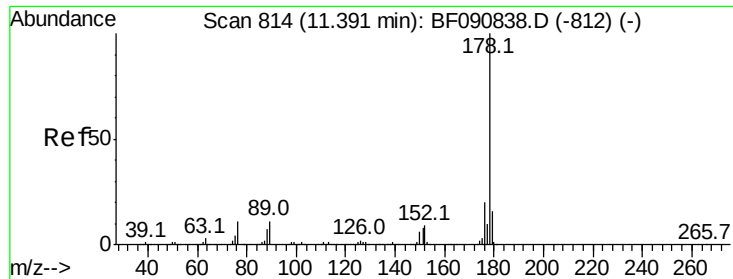


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.27 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

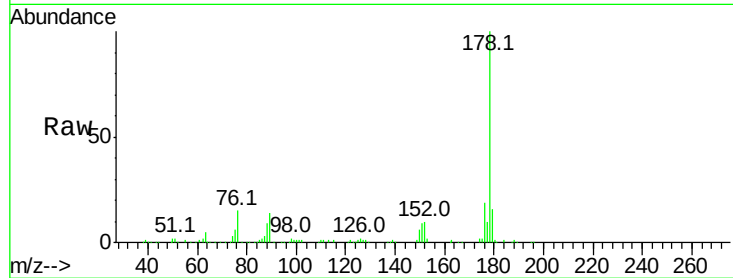
Tot Ion:178 Resp: 198429

Ion Ratio Lower Upper

178 100

176 18.9 14.1 21.1

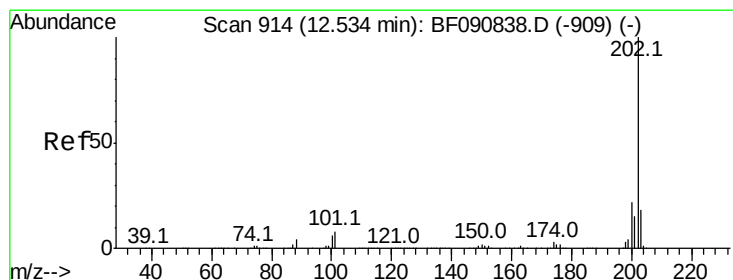
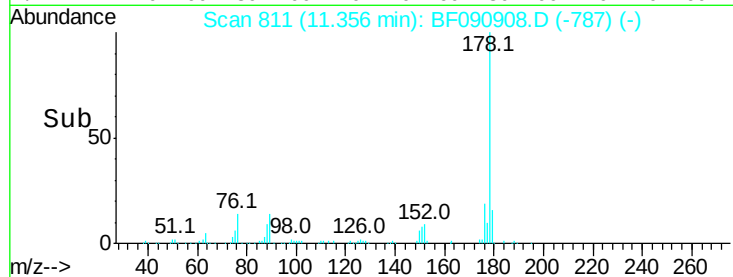
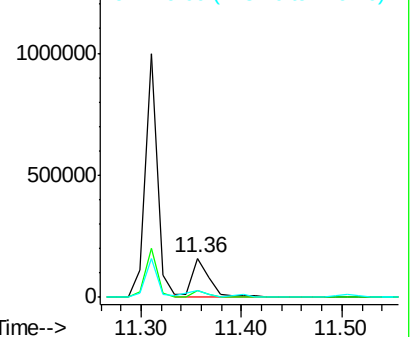
179 16.0 12.2 18.2



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



#74

Fluoranthene

Concen: 18.44 ng

RT: 12.50 min Scan# 911

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

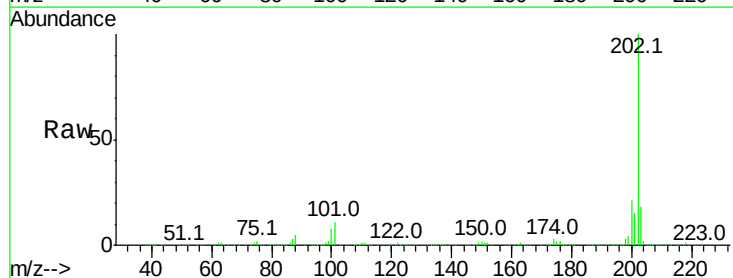
Tgt Ion:202 Resp: 721586

Ion Ratio Lower Upper

202 100

101 10.6 0.0 38.3

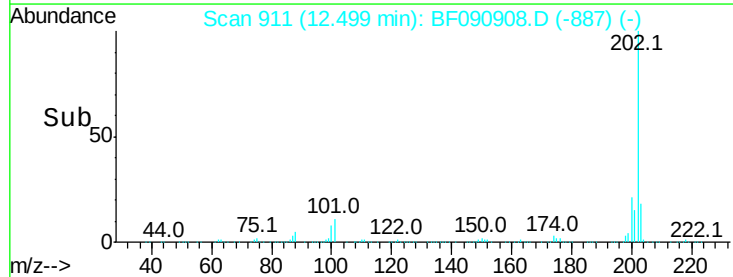
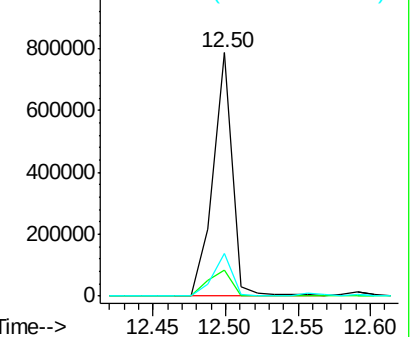
203 17.7 0.0 37.3

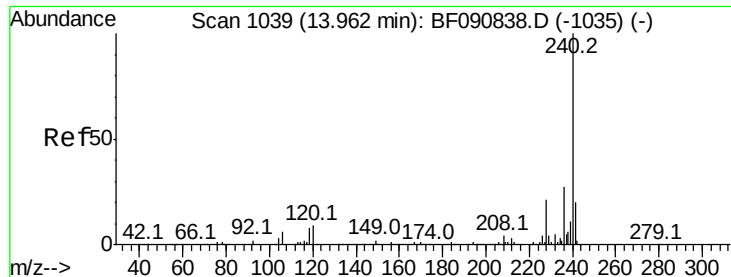


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1036

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

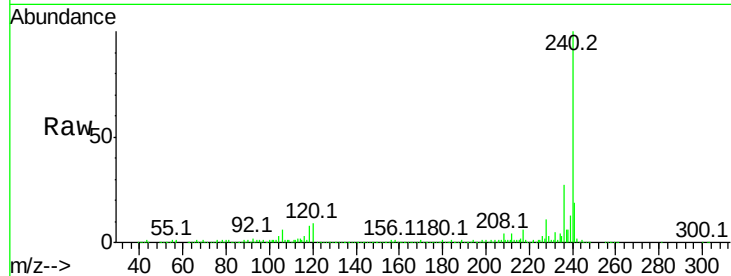
Tot Ion:240 Resp: 459505

Ion Ratio Lower Upper

240 100

120 9.1 16.2 24.2#

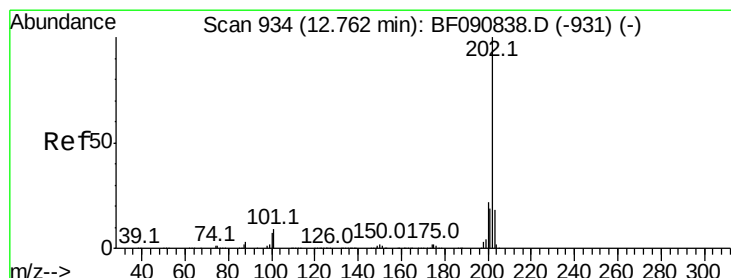
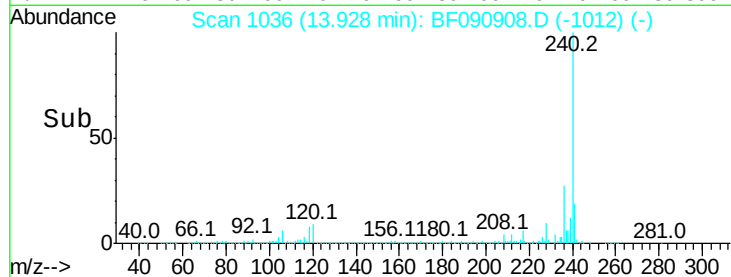
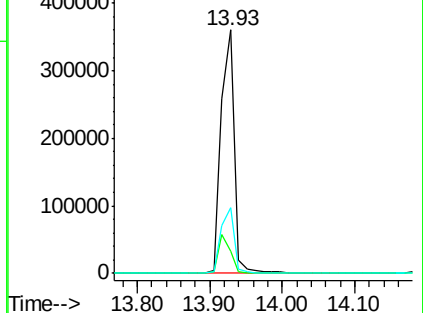
236 26.8 18.4 27.6



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: 21.03 ng

RT: 12.73 min Scan# 931

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

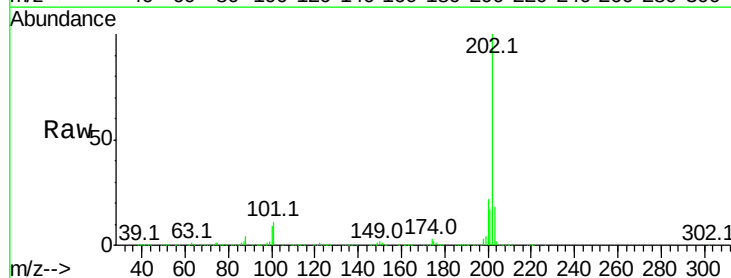
Tgt Ion:202 Resp: 611568

Ion Ratio Lower Upper

202 100

200 21.8 15.0 22.4

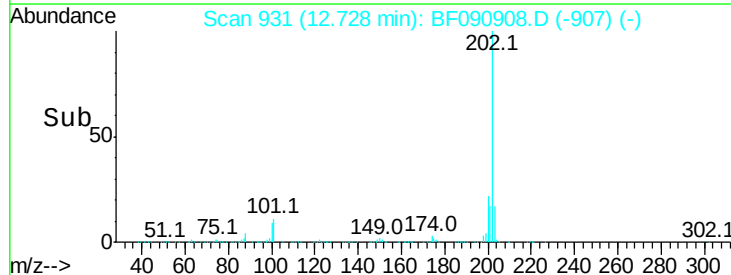
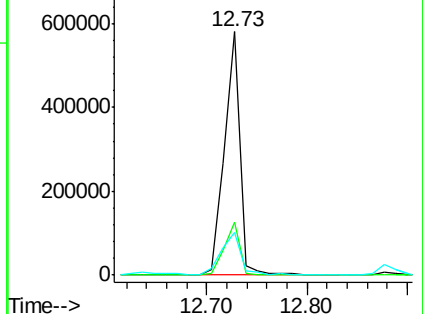
203 17.7 14.1 21.1

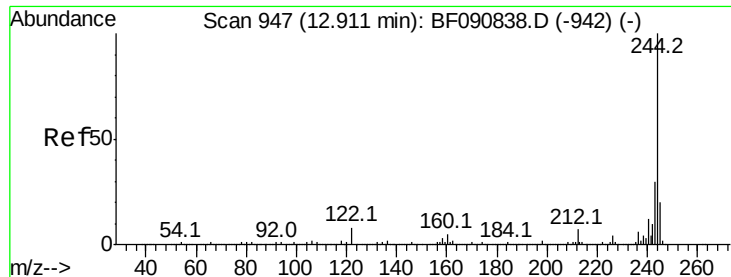


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.51 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.03 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

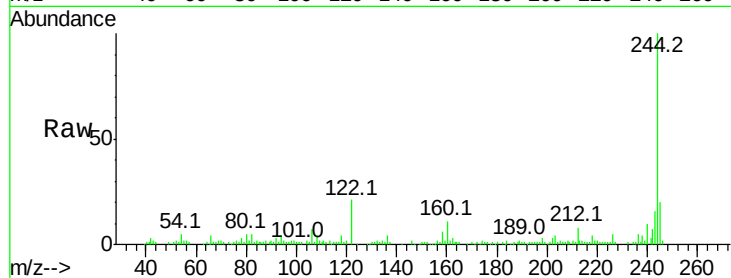
Tot Ion:244 Resp: 100509

Ion Ratio Lower Upper

244 100

212 8.2 4.3 6.5#

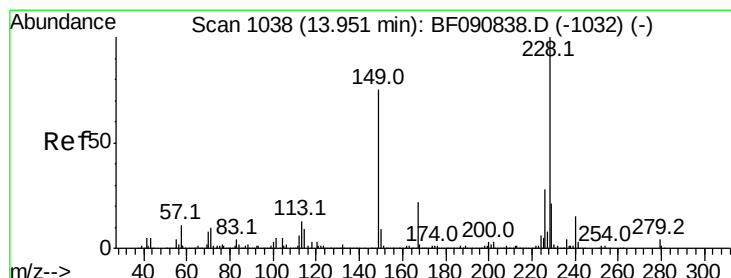
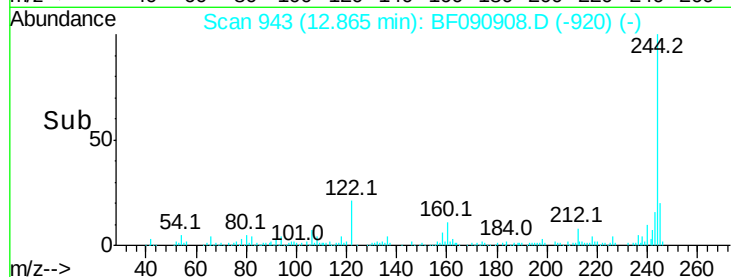
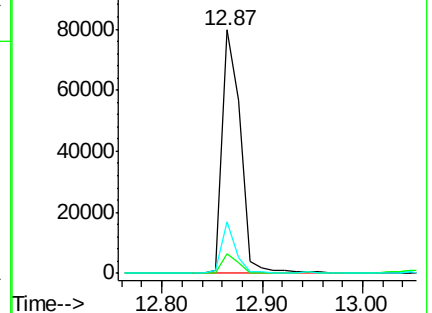
122 21.0 17.4 26.2



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: 11.65 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

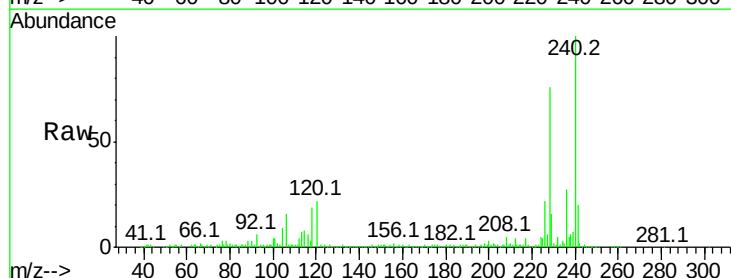
Tgt Ion:228 Resp: 284177

Ion Ratio Lower Upper

228 100

226 28.7 20.0 30.0

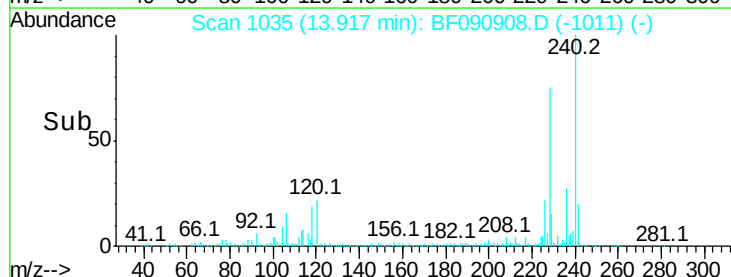
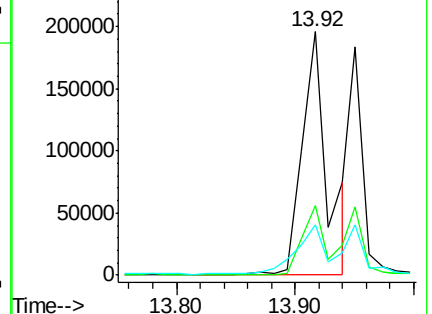
229 20.6 15.4 23.2

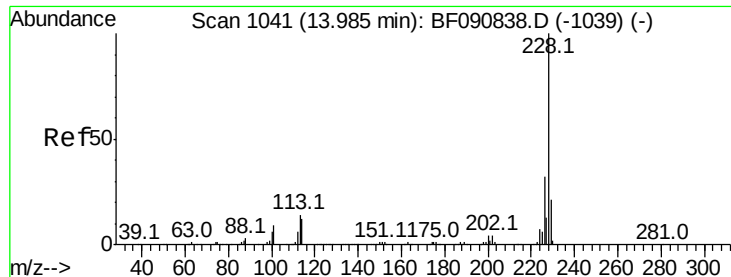


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.52 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.06 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampleId :

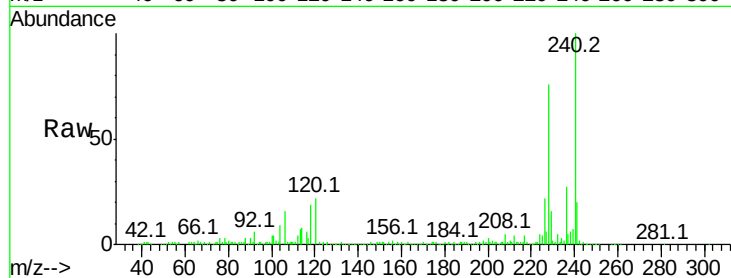
Tot Ion:228 Resp: 284177

Ion Ratio Lower Upper

228 100

226 28.7 21.0 31.4

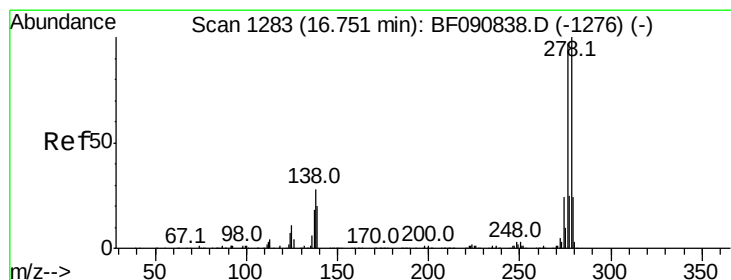
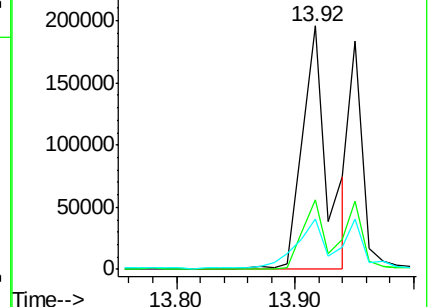
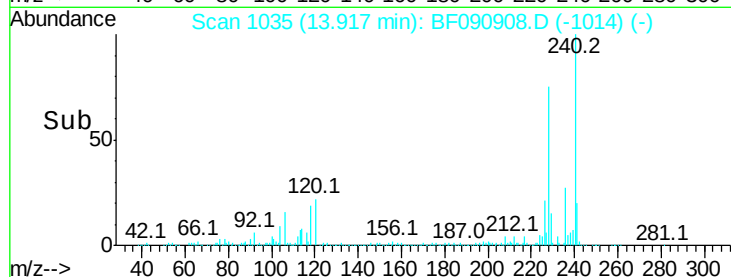
229 20.6 15.6 23.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.52 ng

RT: 16.67 min Scan# 1276

Delta R.T. -0.05 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

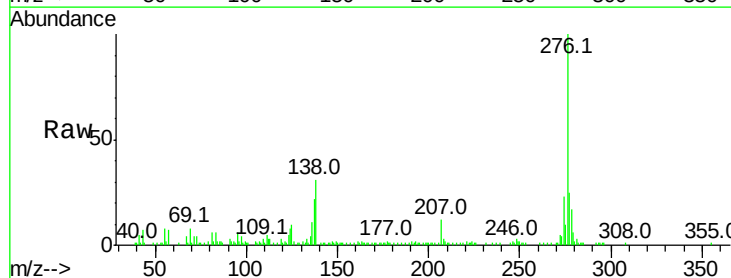
Tgt Ion:276 Resp: 98886

Ion Ratio Lower Upper

276 100

138 27.8 25.7 38.5

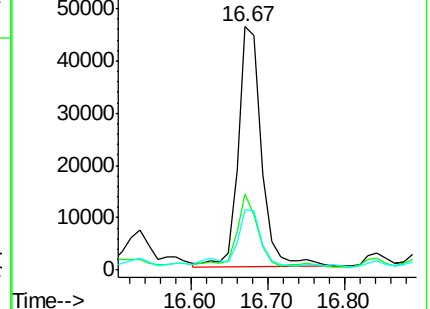
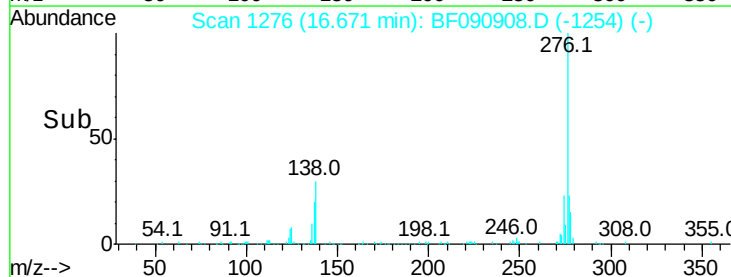
277 26.4 15.6 23.4#

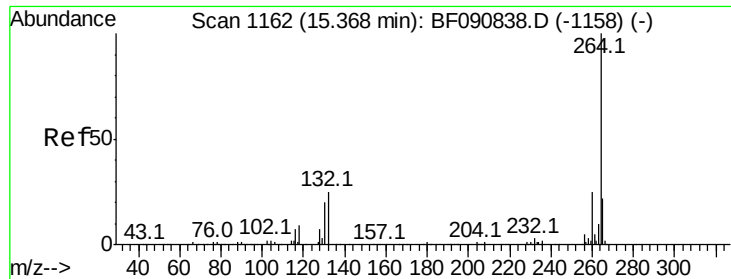


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

Instrument :

BNA_F

ClientSampled :

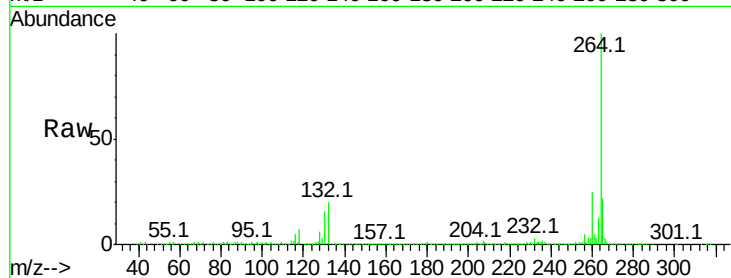
Tot Ion:264 Resp: 447795

Ion Ratio Lower Upper

264 100

260 25.1 16.7 25.1#

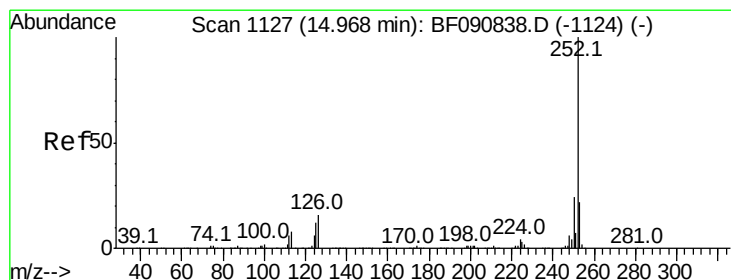
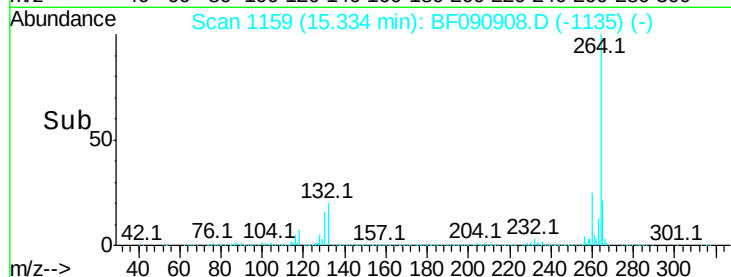
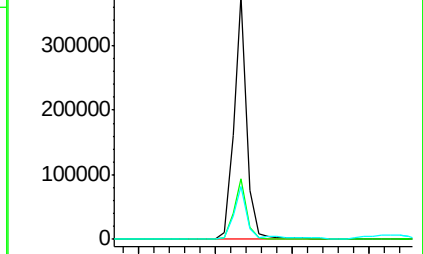
265 21.6 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 10.20 ng

RT: 14.93 min Scan# 1124

Delta R.T. -0.02 min

Lab File: BF090908.D

Acq: 28 Oct 2016 14:21

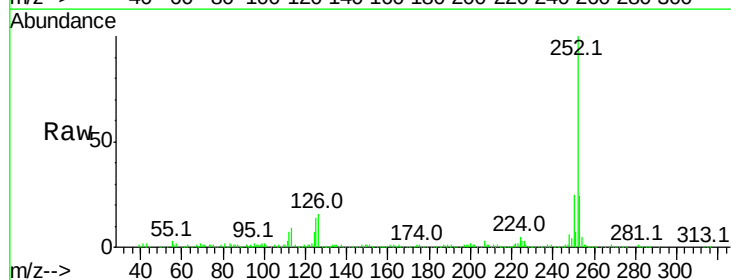
Tgt Ion:252 Resp: 307005

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

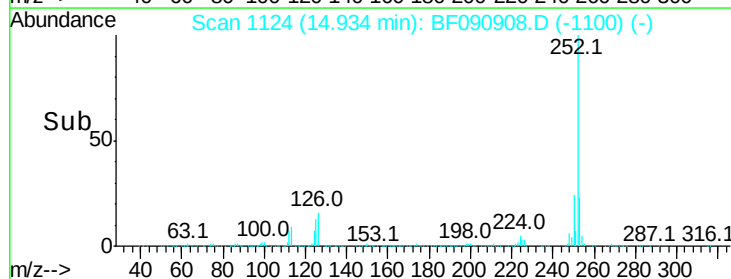
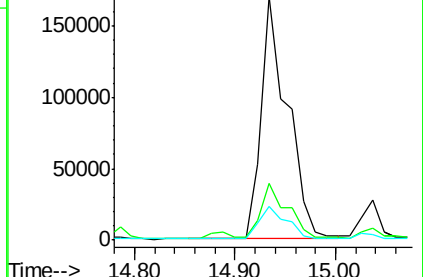
125 13.9 17.1 25.7#

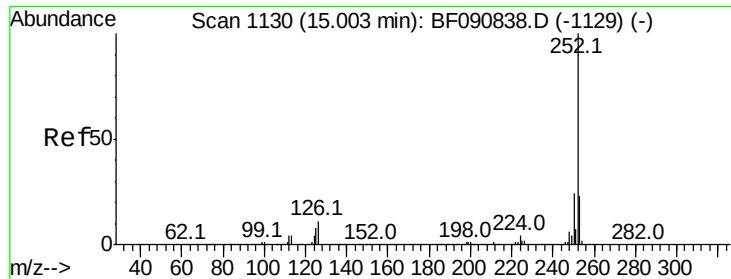


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

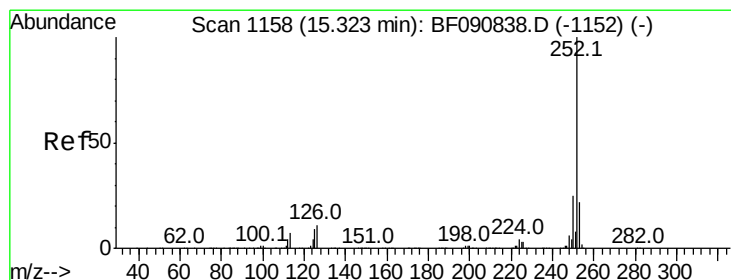
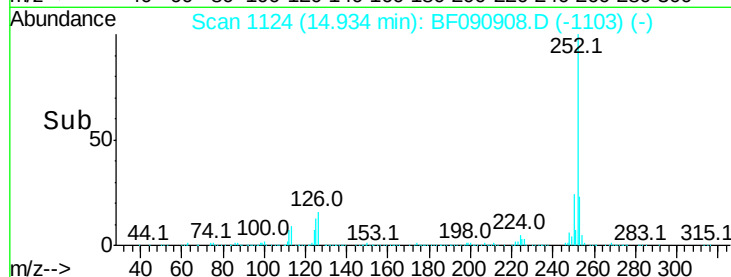
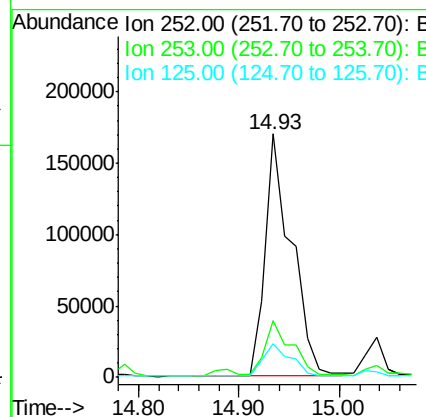
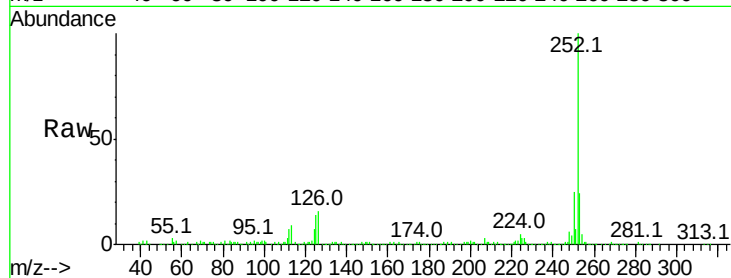




#88
Benzo(k)fluoranthene
Concen: 12.90 ng
RT: 14.93 min Scan# 1124
Delta R.T. -0.06 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

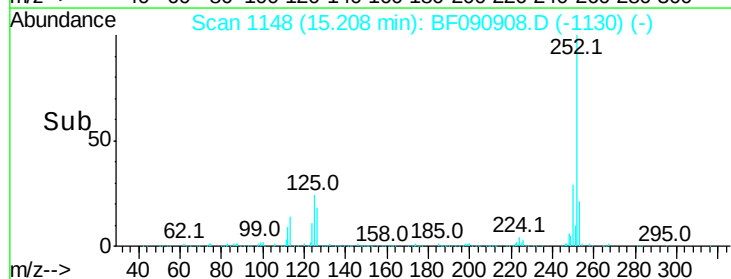
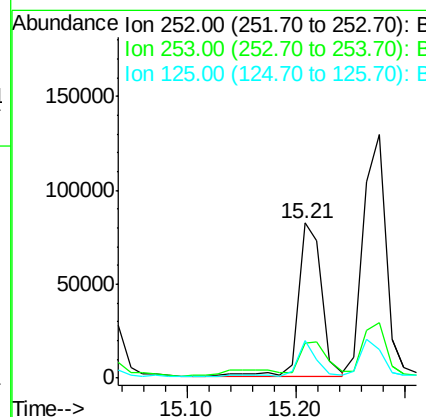
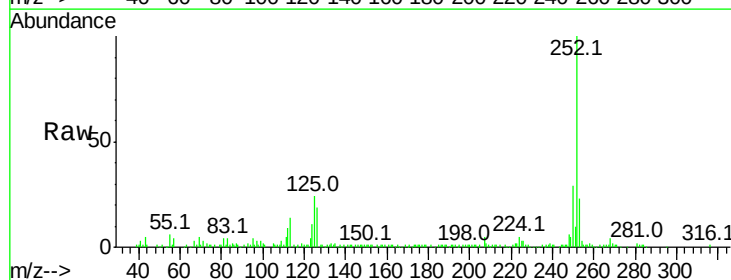
Instrument :
BNA_F
ClientSampleId :

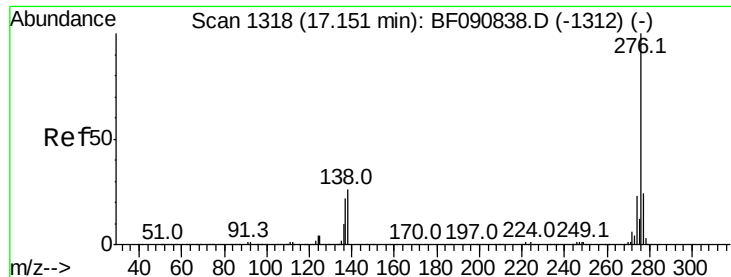
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.4
125	13.9	16.0	24.0



#89
Benzo(a)pyrene
Concen: 4.71 ng
RT: 15.21 min Scan# 1148
Delta R.T. -0.09 min
Lab File: BF090908.D
Acq: 28 Oct 2016 14:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	24.3	18.0	27.0

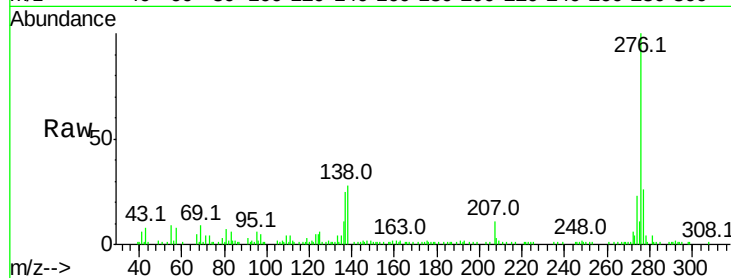




#91
 Benzo(a,h,i)perylene
 Concen: 4.31 ng
 RT: 17.08 min Scan# 1312
 Delta R.T. -0.05 min
 Lab File: BF090908.D
 Acq: 28 Oct 2016 14:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	17.8	26.6
138	28.3	34.6	51.8



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

