

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
 Data File : BF088207.D
 Acq On : 21 Jun 2016 8:59
 Operator : UM/SJ
 Sample : H3570-20RE
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 21 11:50:53 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 20 17:39:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	149319	20.00	ng	-0.01
21) Naphthalene-d8	7.95	136	605261	20.00	ng	0.00
38) Acenaphthene-d10	9.70	164	281542	20.00	ng	0.00
63) Phenanthrene-d10	11.18	188	448792	20.00	ng	0.00
75) Chrysene-d12	13.81	240	328630	20.00	ng	0.00
86) Perylene-d12	15.18	264	338984	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	296401	33.93	ng	0.00
7) Phenol-d6	6.32	99	435562	41.15	ng	-0.01
23) Nitrobenzene-d5	7.23	82	241322	23.28	ng	-0.01
41) 2,4,6-Tribromophenol	10.49	330	182175	61.28	ng	0.00
44) 2-Fluorobiphenyl	9.03	172	519503	25.08	ng	-0.01
78) Terphenyl-d14	12.75	244	637747	44.16	ng	-0.01

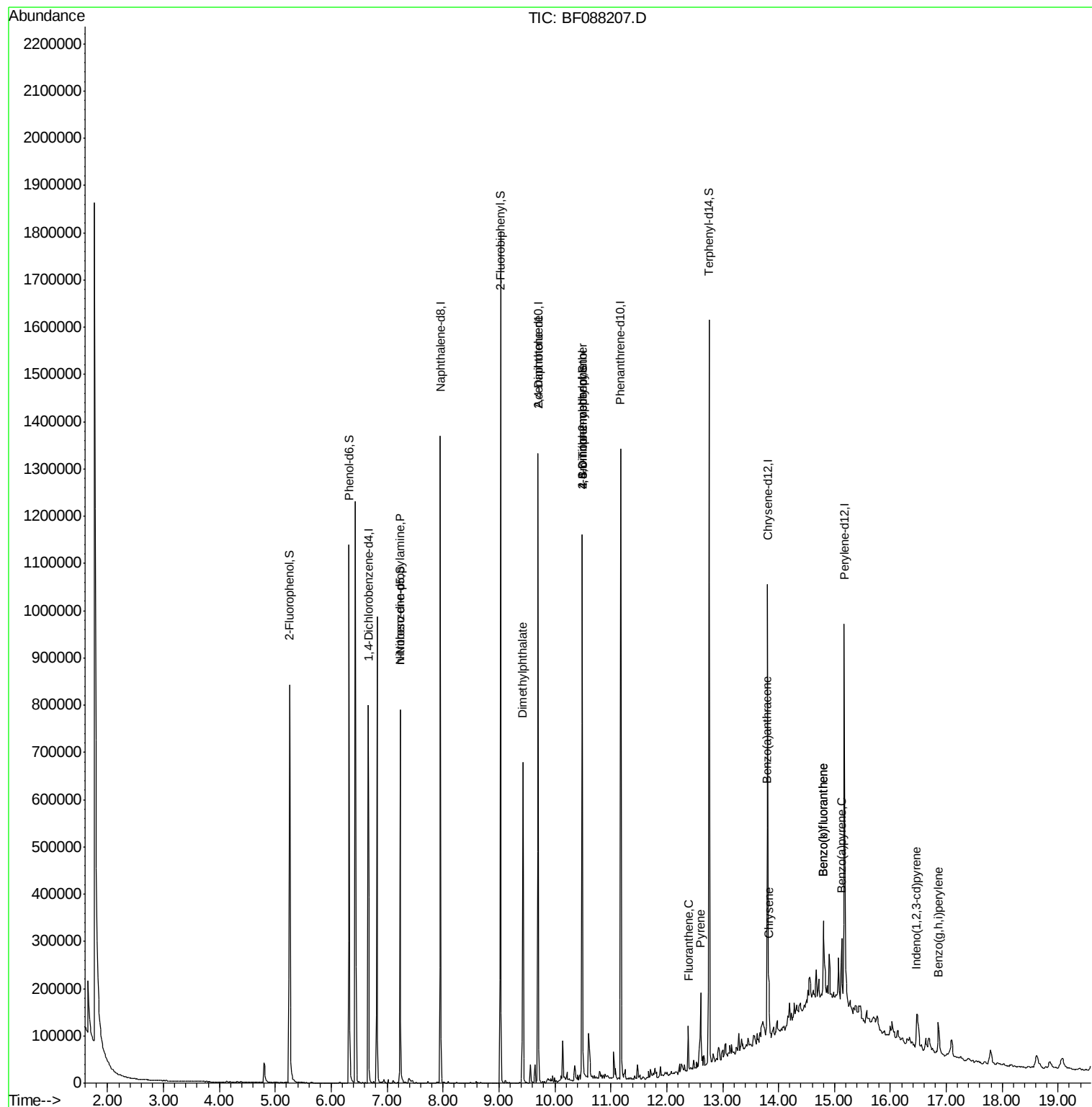
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.33	94	3319	Below Cal	#	32
19) n-Nitroso-di-n-propylamine	7.23	70	30829	4.55	ng	71
45) 1,1'-Biphenyl	9.13	154	214	Below Cal	#	43
49) Dimethylphthalate	9.43	163	266221	13.05	ng	99
56) 2,4-Dinitrotoluene	9.70	165	35947	5.99	ng	38
57) Fluorene	10.26	166	1447	Below Cal	#	44
64) 4,6-Dinitro-2-methylphenol	10.49	198	263	2.25	ng	1
66) 4-Bromophenyl-phenylether	10.49	248	11844	2.46	ng	1
74) Fluoranthene	12.39	202	50259	2.02	ng	96
77) Pyrene	12.61	202	70688	2.90	ng	98
80) Benzo(a)anthracene	13.79	228	55448	2.96	ng	99
82) Chrysene	13.83	228	40798	2.32	ng	98
85) Indeno(1,2,3-cd)pyrene	16.47	276	50906	3.11	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	109038	4.62	ng	# 92
88) Benzo(k)fluoranthene	14.80	252	109038	6.12	ng	# 97
89) Benzo(a)pyrene	15.13	252	62164	3.25	ng	97
91) Benzo(a,h,i)perylene	16.86	276	53145	2.91	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: 6.66 min Scan# 444

Delta R.T. -0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :
BNA_F
ClientSampleId :

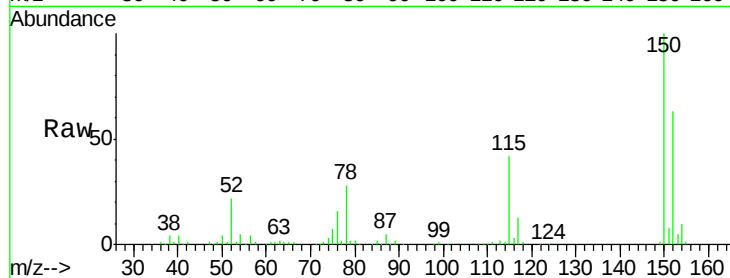
Tot Ion:152 Resp: 149319

Ion Ratio Lower Upper

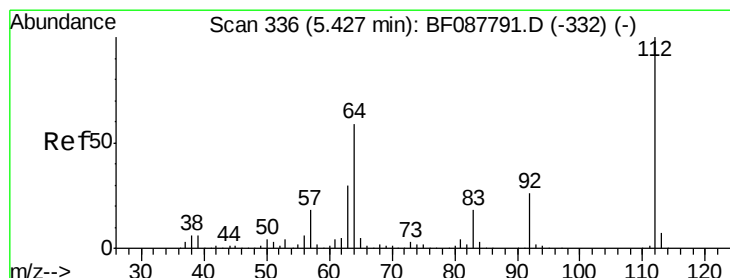
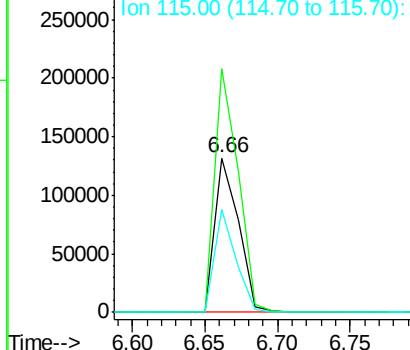
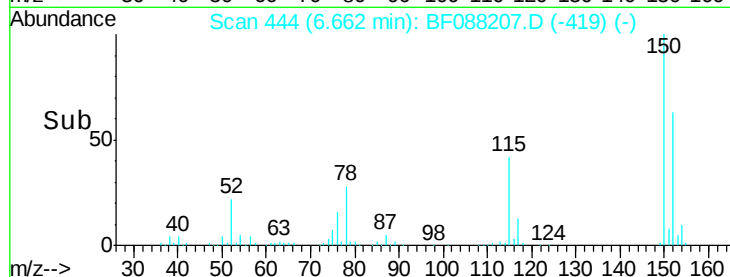
152 100

150 157.6 123.8 185.6

115 66.8 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: 33.93 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.00 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

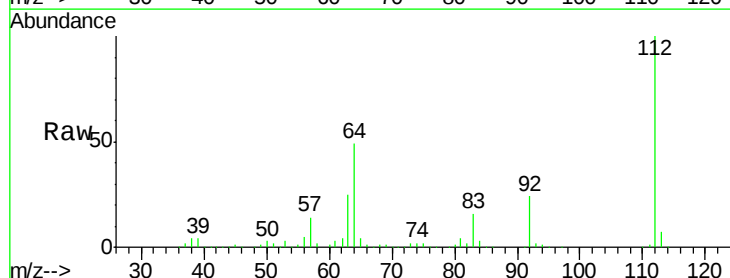
Tgt Ion:112 Resp: 296401

Ion Ratio Lower Upper

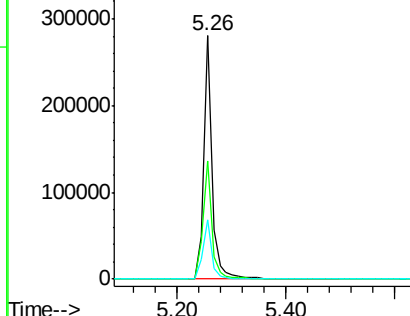
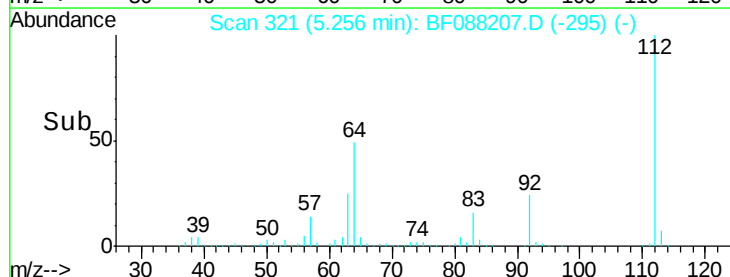
112 100

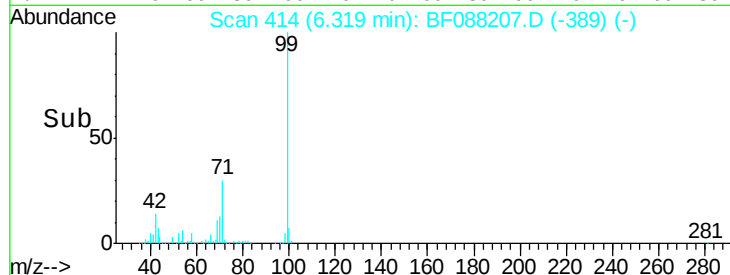
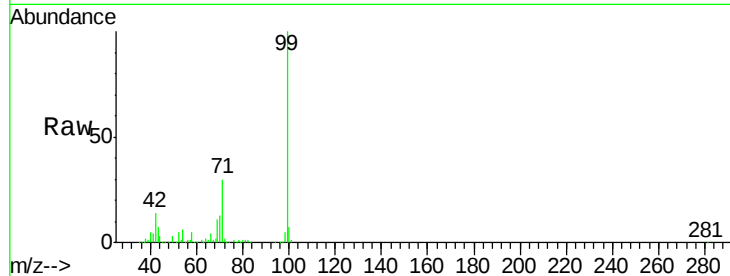
64 48.8 42.2 63.2

63 24.6 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: 41.15 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :

BNA_F

ClientSampleId :

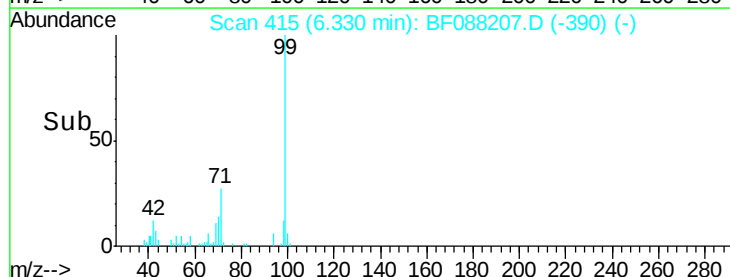
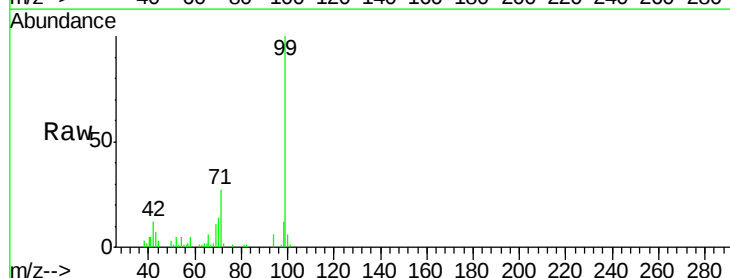
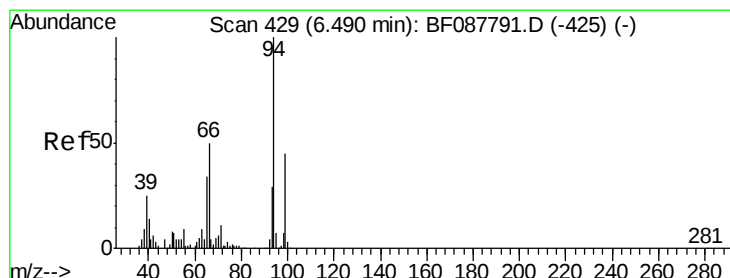
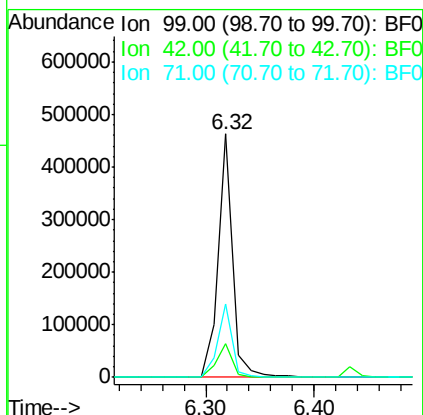
Tot Ion: 99 Resp: 435562

Ion Ratio Lower Upper

99 100

42 13.7 12.2 18.2

71 30.3 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.33 min Scan# 415

Delta R.T. -0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

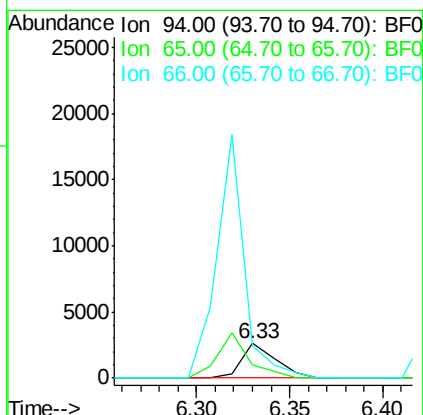
Tgt Ion: 94 Resp: 3319

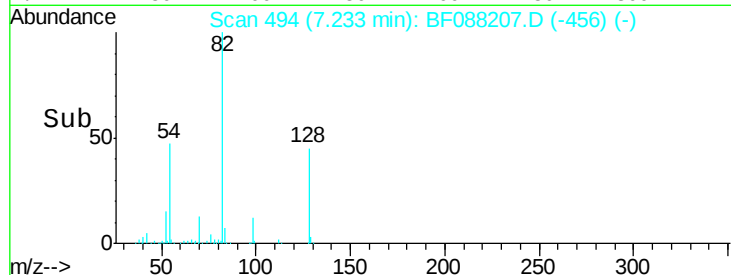
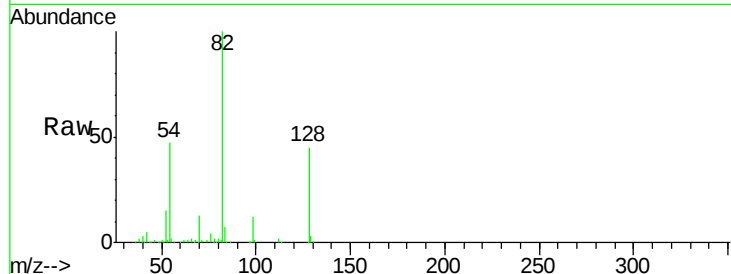
Ion Ratio Lower Upper

94 100

65 37.2 5.9 45.9

66 93.1 14.0 54.0#

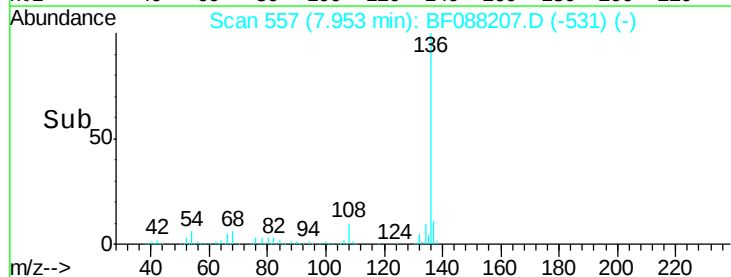
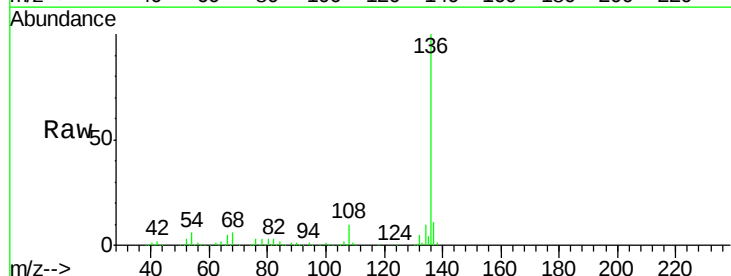
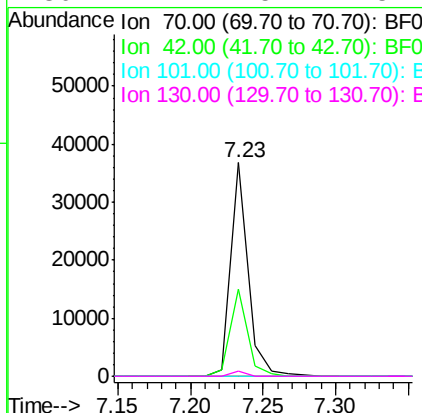




#19
n-Nitroso-di-n-propylamine
Concen: 4.55 ng
RT: 7.23 min Scan# 494
Delta R.T. 0.14 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

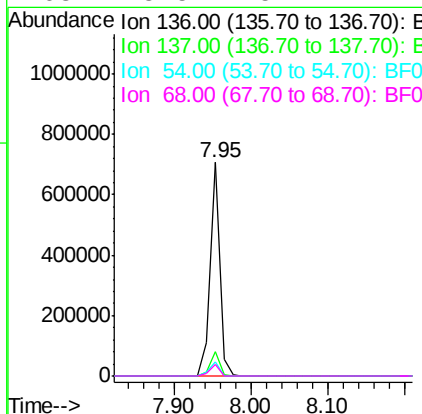
Instrument :
BNA_F
ClientSampleId :

Tot Ion: 70 Resp: 30829
Ion Ratio Lower Upper
70 100
42 40.9 49.6 74.4#
101 0.0 7.1 10.7#
130 2.4 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.00 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

Tgt Ion: 136 Resp: 605261
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 6.4 6.6 10.0#
68 5.5 5.1 7.7

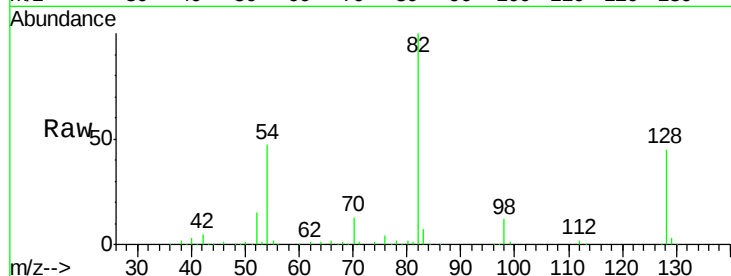




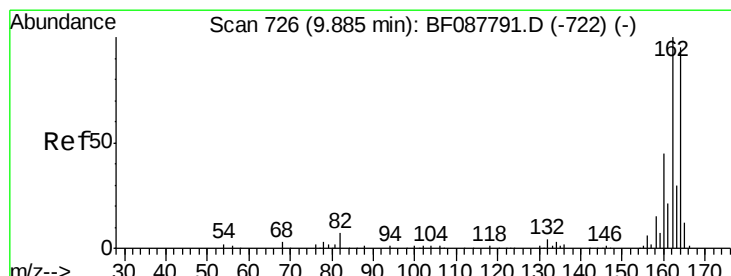
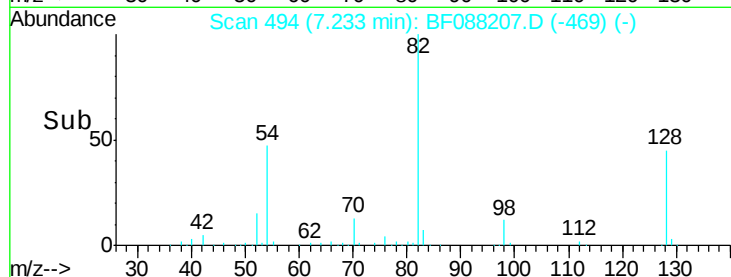
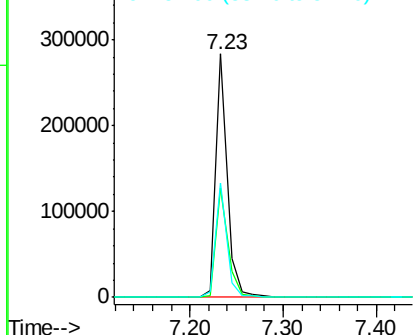
#23
 Nitrobenzene-d5
 Concen: 23.28 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	82	Resp	241322
Ion Ratio	100	Lower	Upper
128	45.1	35.9	53.9
54	46.7	40.9	61.3

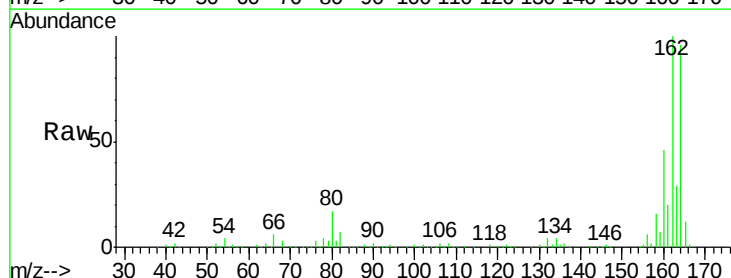


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

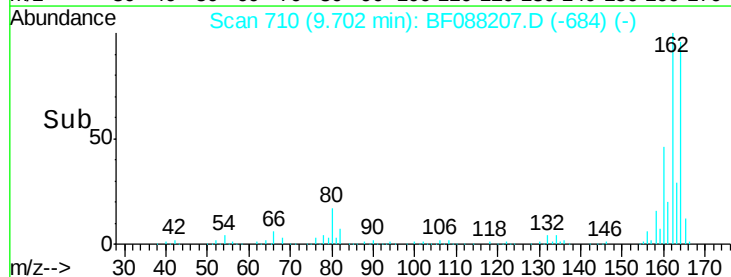
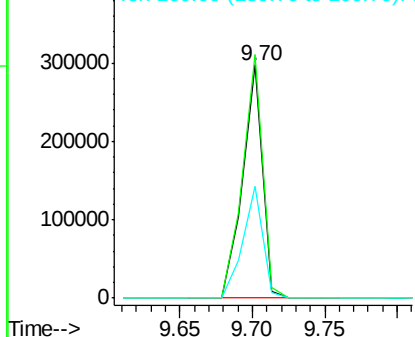


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Tgt Ion	164	Resp	281542
Ion Ratio	100	Lower	Upper
162	104.6	85.4	128.2
160	47.9	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

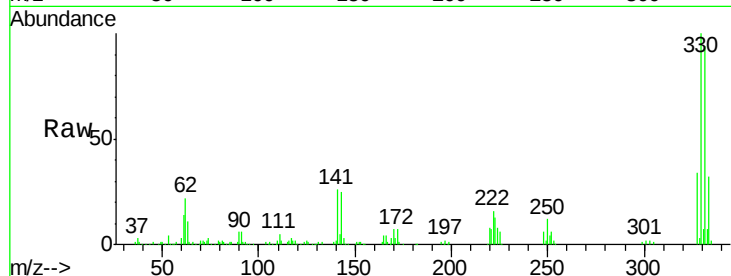




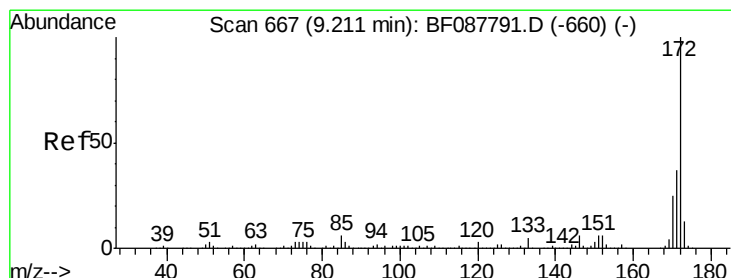
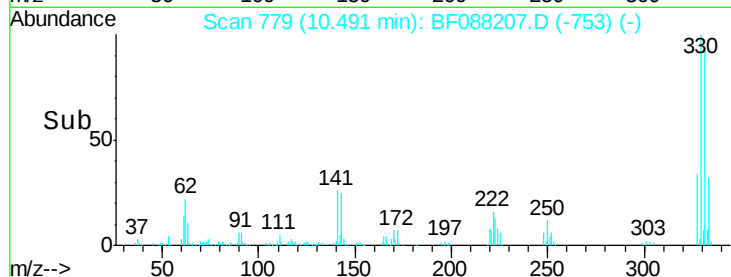
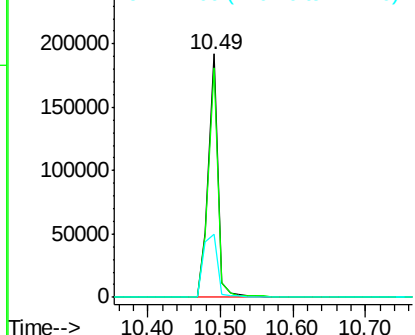
#41
 2,4,6-Tribromophenol
 Concen: 61.28 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.00 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	0.0	0.0#
141	37.9	0.0	0.0#

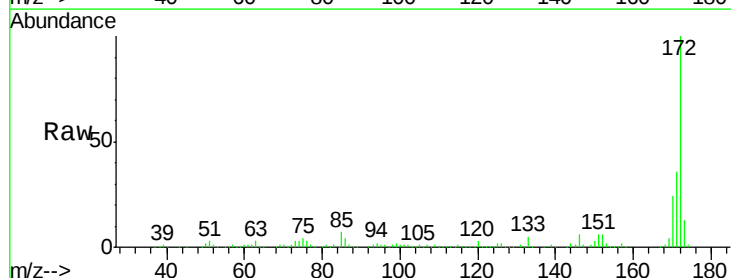


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

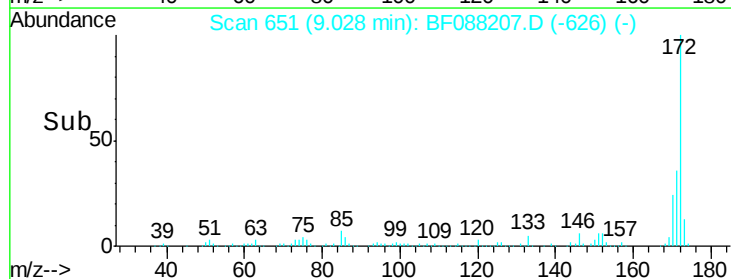
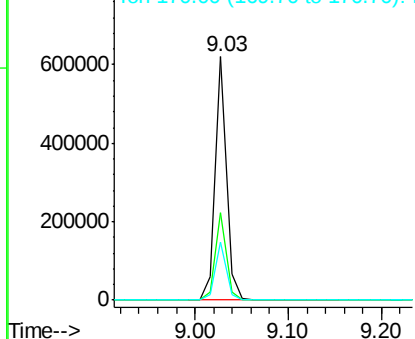


#44
 2-Fluorobiphenyl
 Concen: 25.08 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.01 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	24.0	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

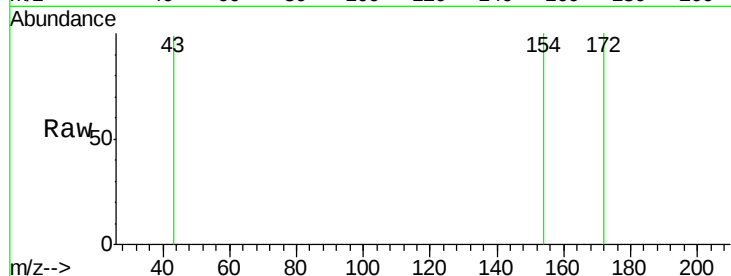




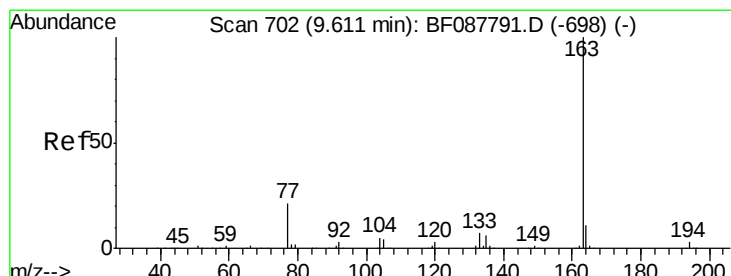
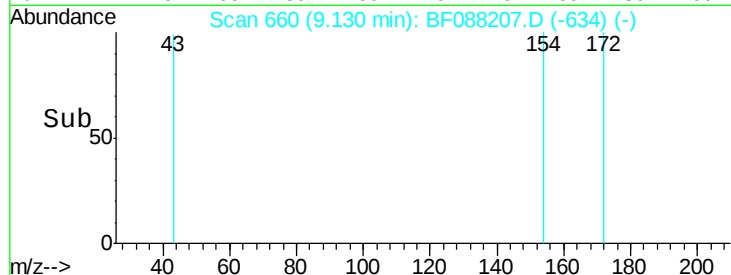
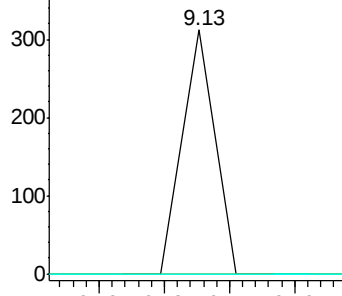
#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.13 min Scan# 660
 Delta R.T. -0.00 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:154 Resp: 214
 Ion Ratio Lower Upper
 154 100
 153 0.0 20.6 60.6#
 76 0.0 0.0 35.1

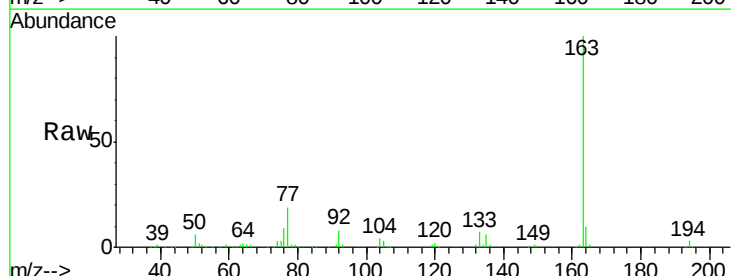


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

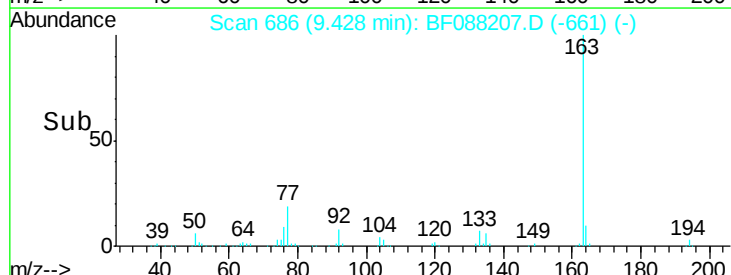
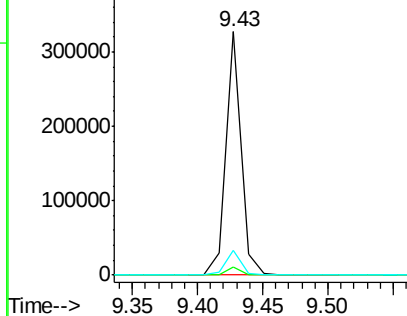


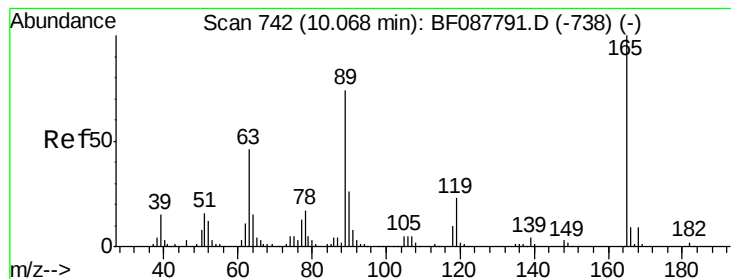
#49
 Dimethylphthalate
 Concen: 13.05 ng
 RT: 9.43 min Scan# 686
 Delta R.T. -0.01 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Tgt Ion:163 Resp: 266221
 Ion Ratio Lower Upper
 163 100
 194 3.3 2.8 4.2
 164 10.1 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





#56

2,4-Dinitrotoluene

Concen: 5.99 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.21 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 35947

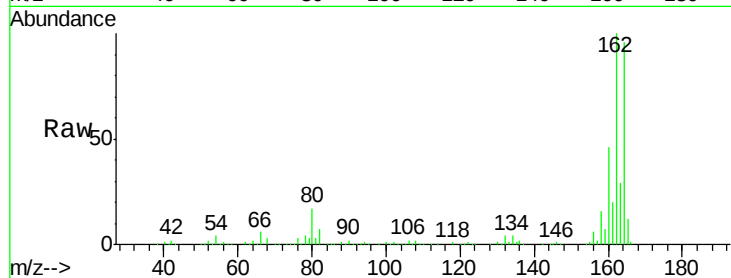
Ion Ratio Lower Upper

165 100

63 1.2 22.0 33.0#

89 1.6 41.1 61.7#

182 0.0 2.0 3.0#

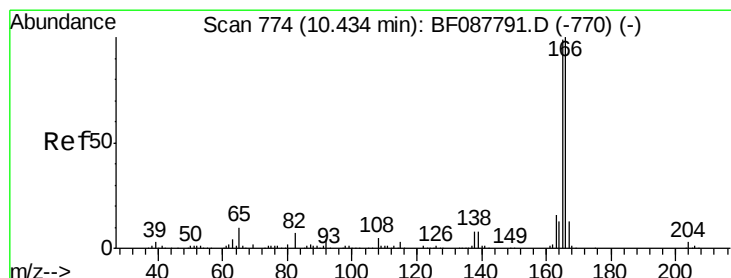
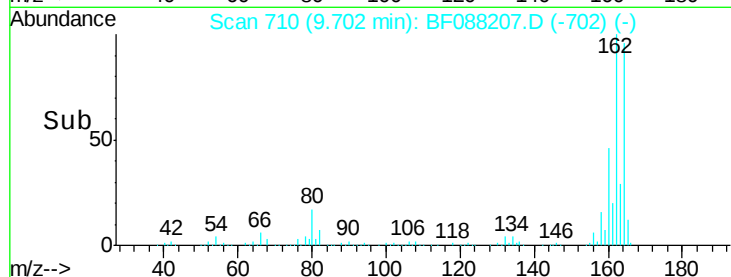
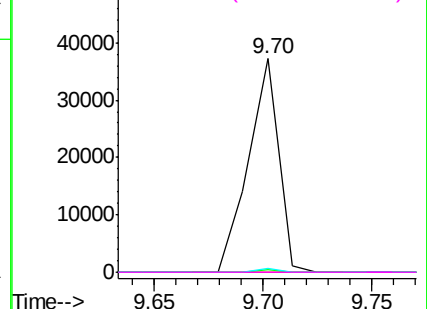


Abundance Ion 165.00 (164.70 to 165.70): E

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: 10.26 min Scan# 759

Delta R.T. 0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

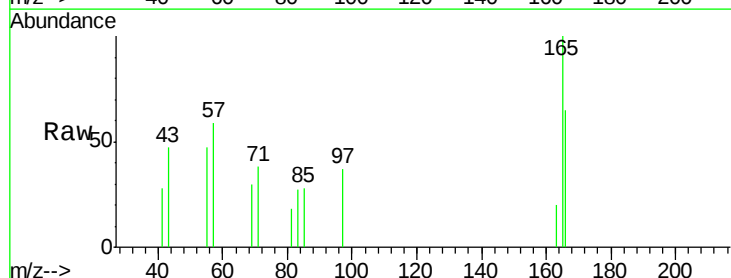
Tgt Ion:166 Resp: 1447

Ion Ratio Lower Upper

166 100

165 154.9 77.8 116.8#

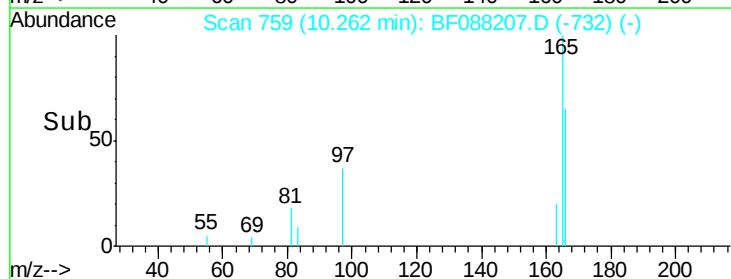
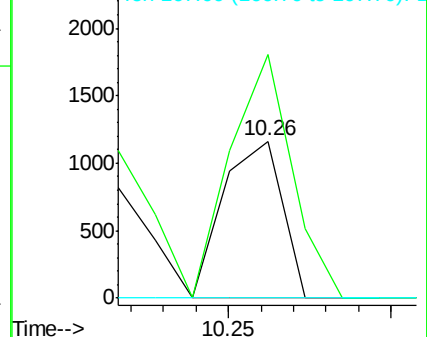
167 0.0 11.2 16.8#

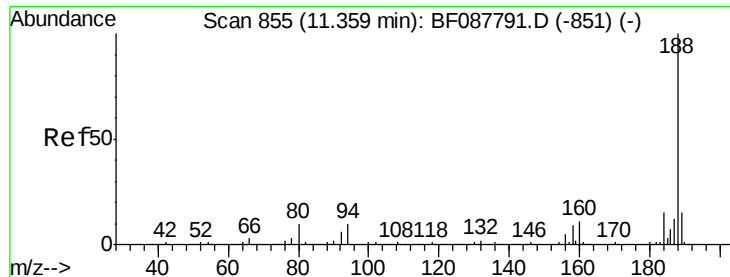


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

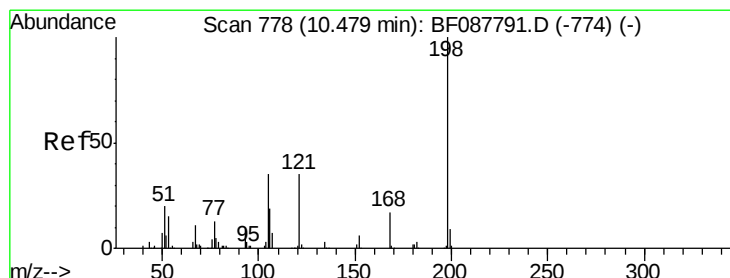
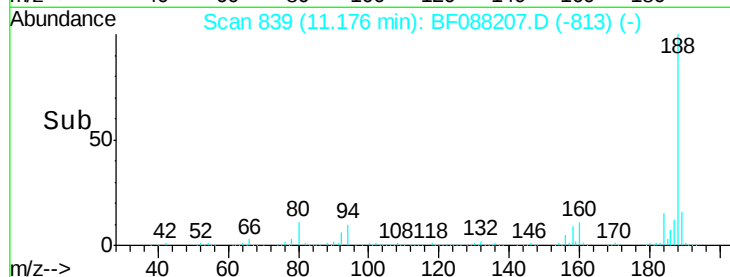
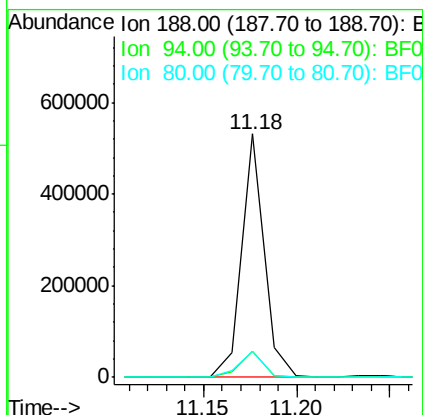
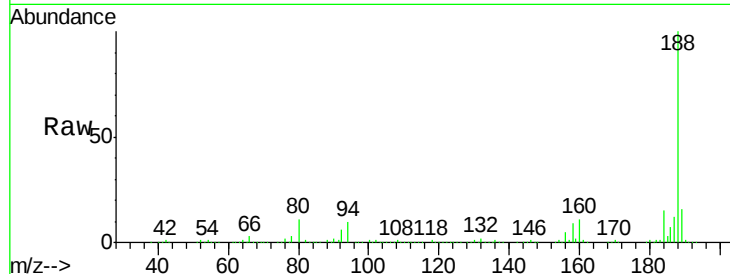




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.18 min Scan# 839
 Delta R.T. -0.00 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

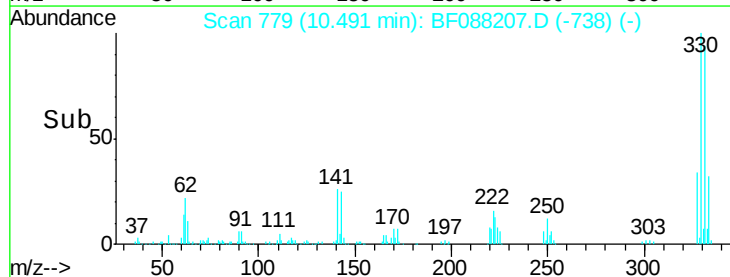
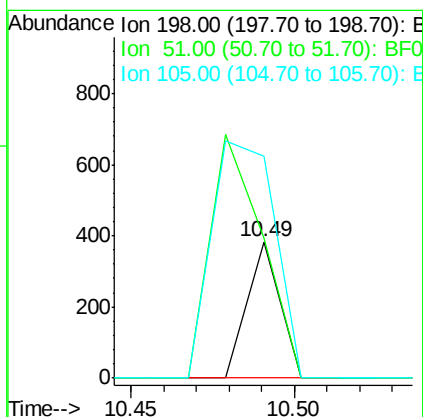
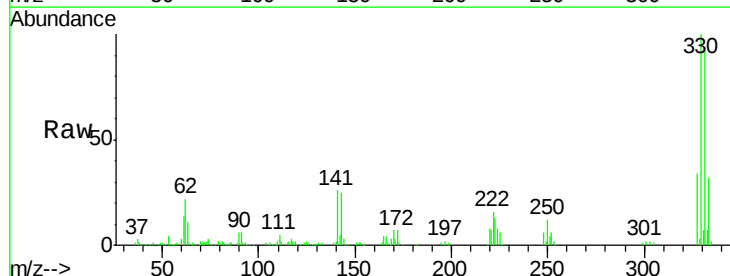
Instrument :
 BNA_F
 ClientSampleId :

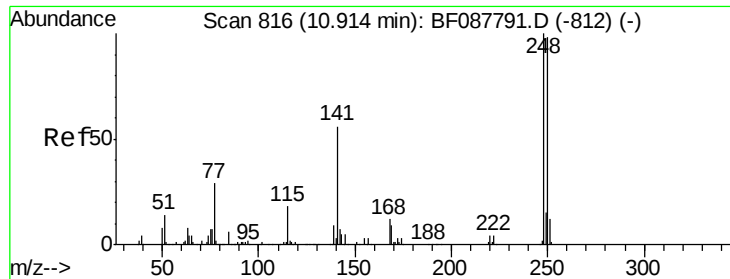
Tot Ion:188 Resp: 448792
 Ion Ratio Lower Upper
 188 100
 94 10.4 9.0 13.6
 80 10.7 10.0 15.0



#64
 4,6-Dinitro-2-methylphenol
 Concen: 2.25 ng
 RT: 10.49 min Scan# 779
 Delta R.T. 0.17 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Tgt Ion:198 Resp: 263
 Ion Ratio Lower Upper
 198 100
 51 102.3 39.6 79.6#
 105 162.8 36.6 76.6#

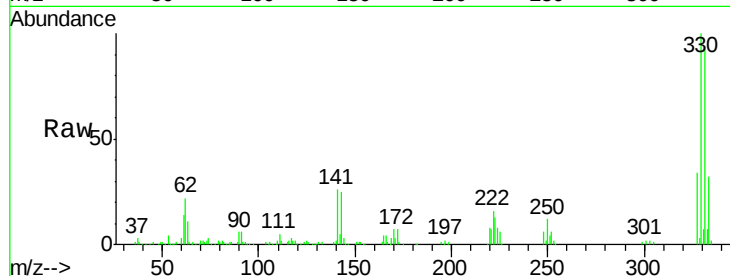




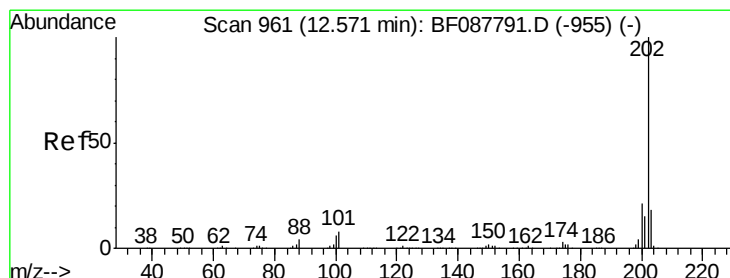
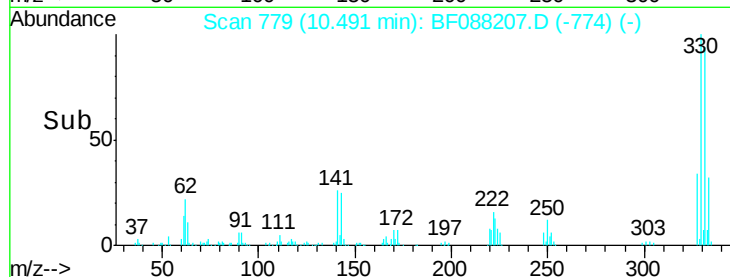
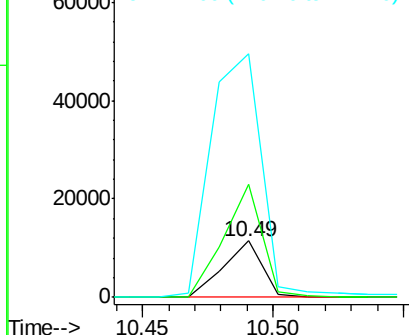
#66
4-Bromophenyl-phenylether
Concen: 2.46 ng
RT: 10.49 min Scan# 779
Delta R.T. -0.24 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 11844
Ion Ratio Lower Upper
248 100
250 200.2 77.1 115.7#
141 431.4 50.6 76.0#

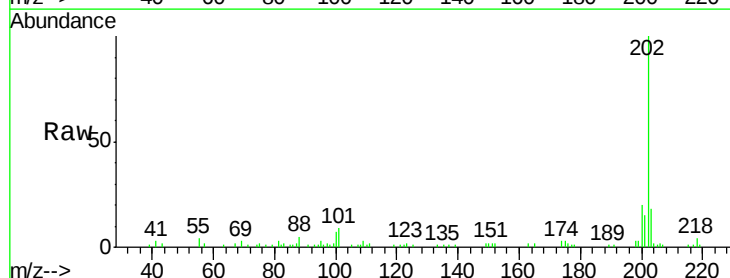


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

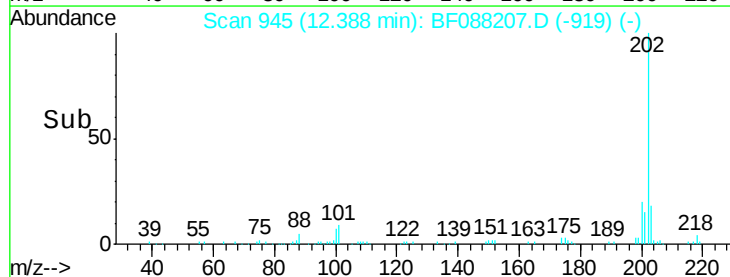
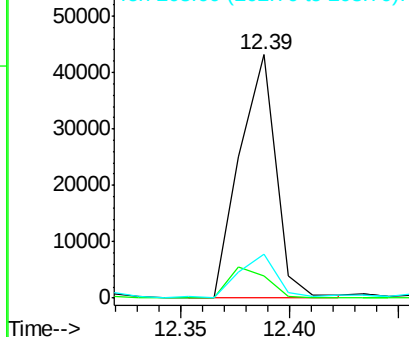


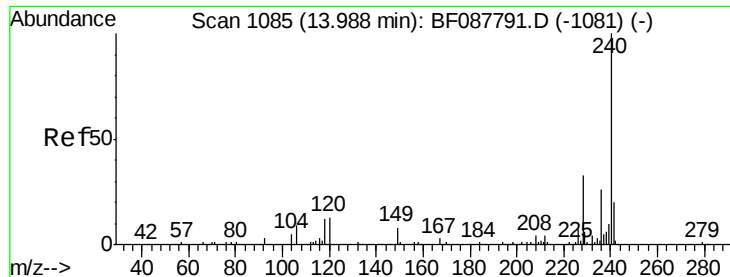
#74
Fluoranthene
Concen: 2.02 ng
RT: 12.39 min Scan# 945
Delta R.T. -0.00 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

Tgt Ion:202 Resp: 50259
Ion Ratio Lower Upper
202 100
101 9.1 0.0 33.1
203 18.0 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: 13.81 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :

BNA_F

ClientSampleId :

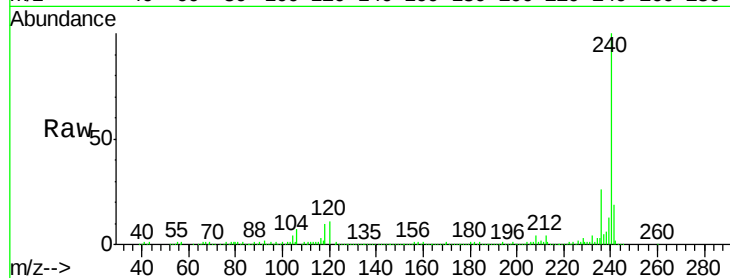
Tot Ion:240 Resp: 328630

Ion Ratio Lower Upper

240 100

120 10.9 6.8 10.2#

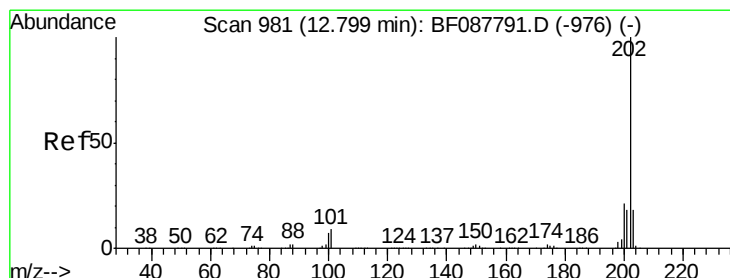
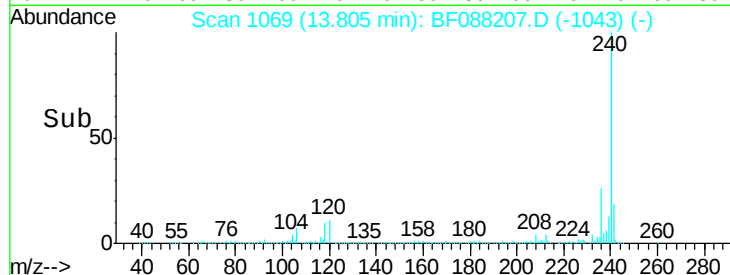
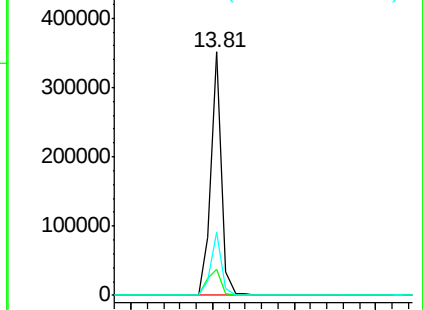
236 25.8 20.2 30.2



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: 2.90 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

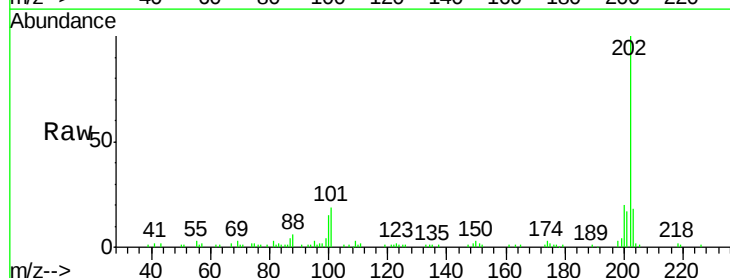
Tgt Ion:202 Resp: 70688

Ion Ratio Lower Upper

202 100

200 19.9 17.4 26.2

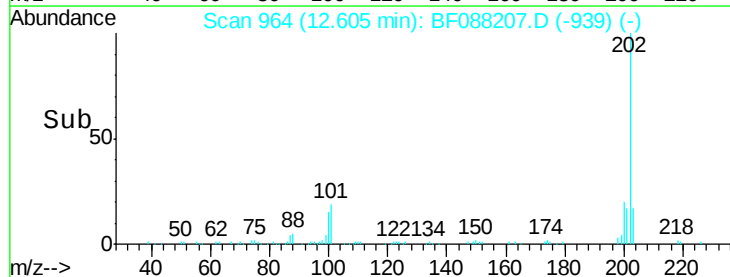
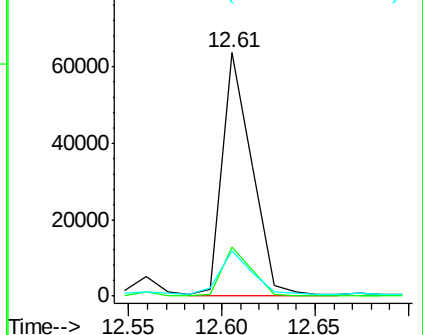
203 18.3 14.5 21.7

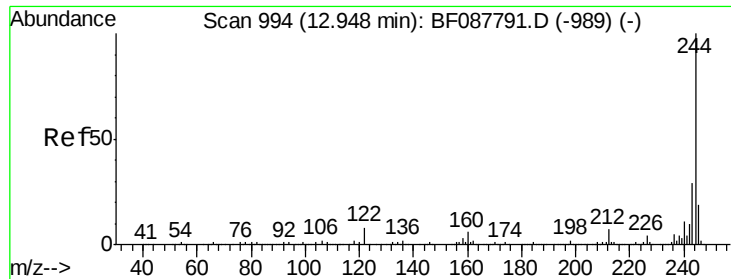


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

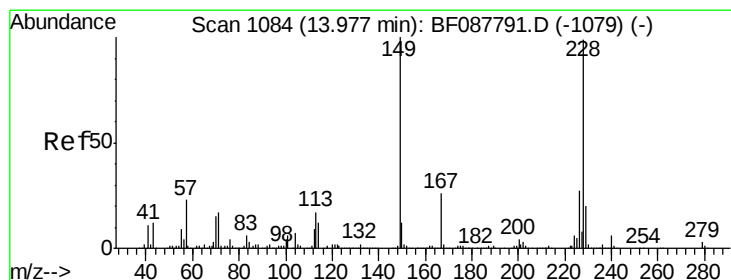
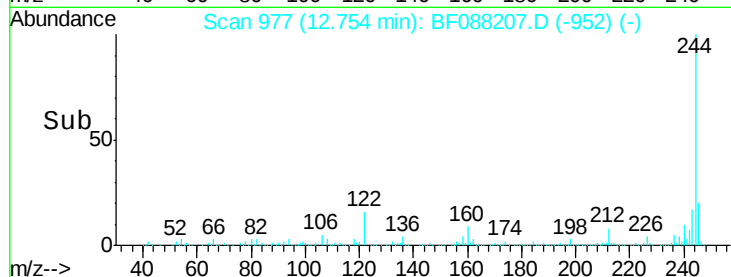
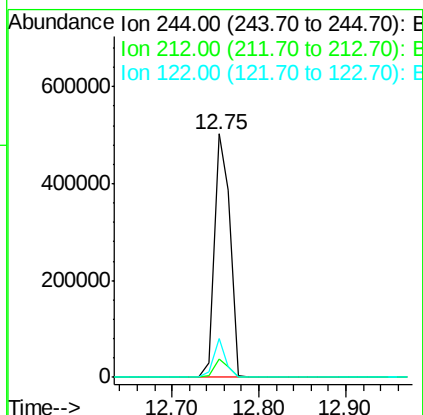
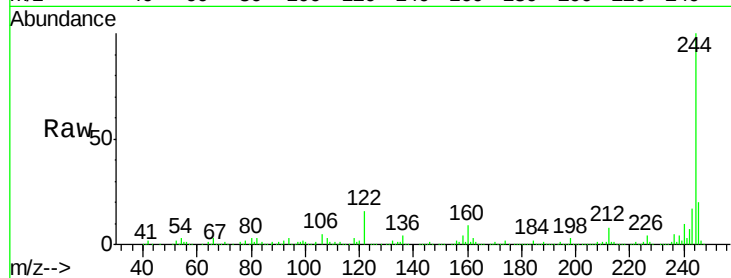




#78
 Terphenyl-d14
 Concen: 44.16 ng
 RT: 12.75 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

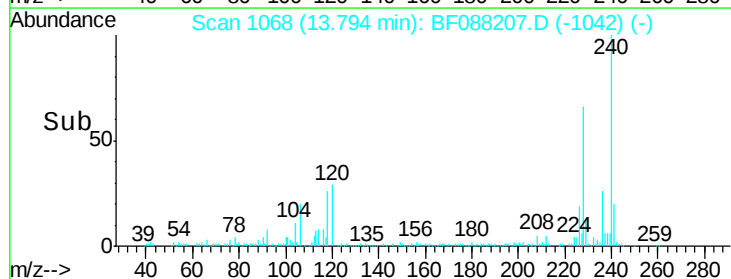
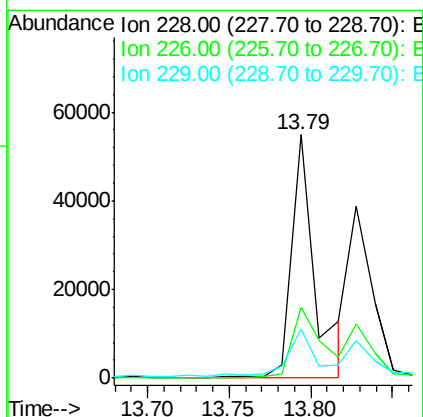
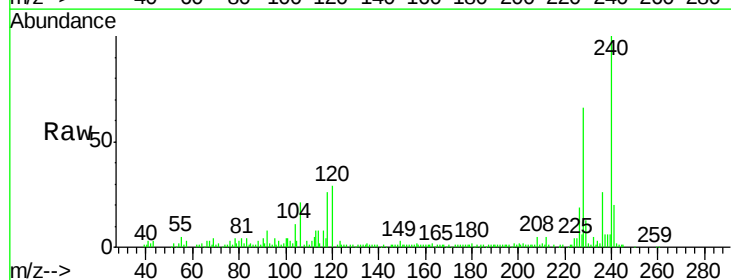
Instrument :
 BNA_F
 ClientSampleId :

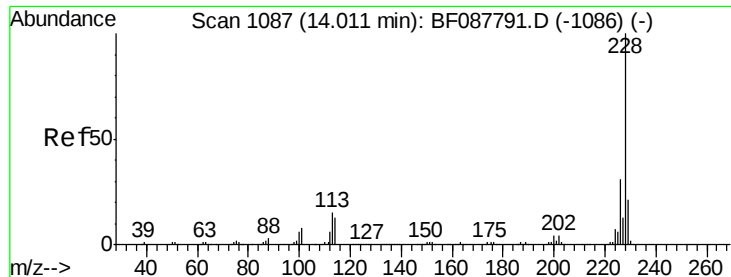
Tot Ion:244 Resp: 637747
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.0 9.0
 122 16.0 11.2 16.8



#80
 Benzo(a)anthracene
 Concen: 2.96 ng
 RT: 13.79 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Tgt Ion:228 Resp: 55448
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.3 33.5
 229 20.2 16.0 24.0





#82

Chrysene

Concen: 2.32 ng

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :

BNA_F

ClientSampleId :

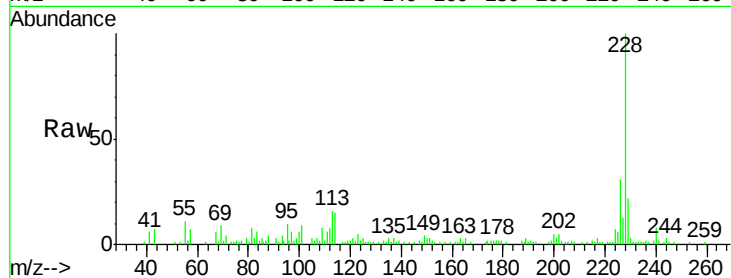
Tot Ion:228 Resp: 40798

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.2

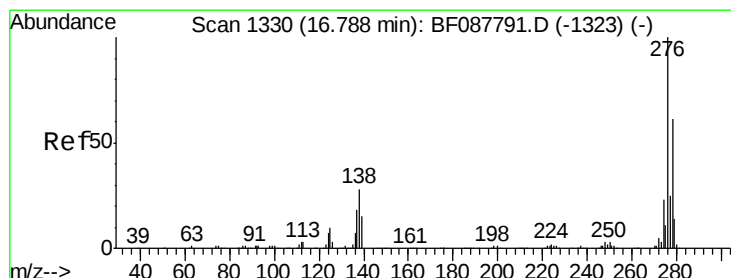
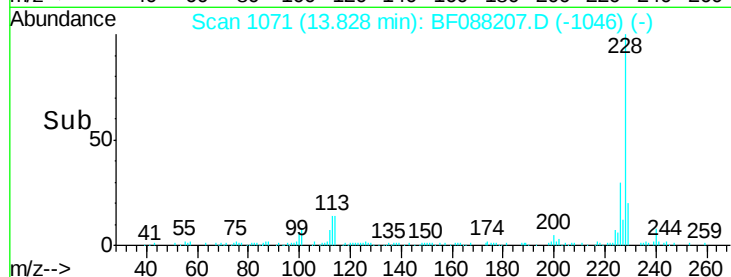
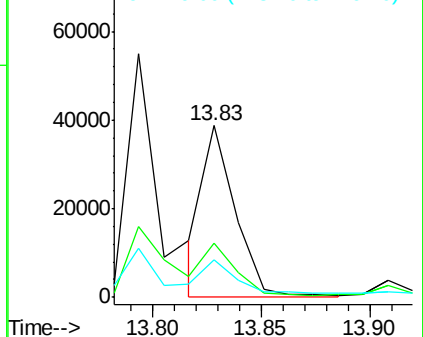
229 22.1 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.11 ng

RT: 16.47 min Scan# 1302

Delta R.T. -0.00 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

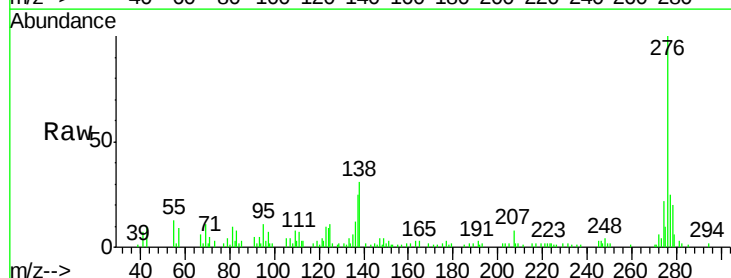
Tgt Ion:276 Resp: 50906

Ion Ratio Lower Upper

276 100

138 27.9 0.0 0.0#

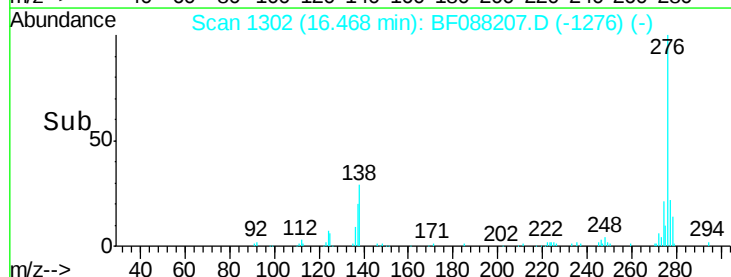
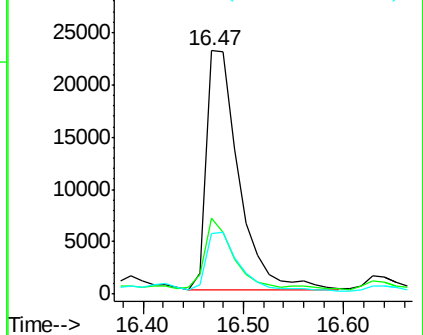
277 24.7 0.0 0.0#

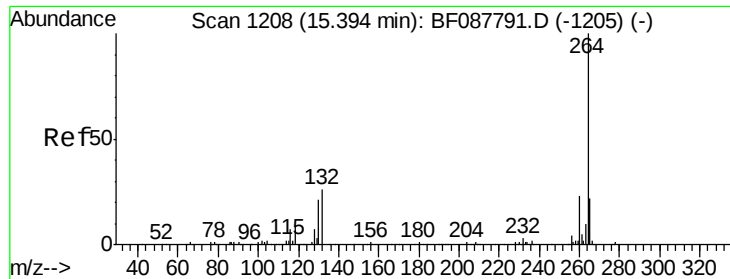


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

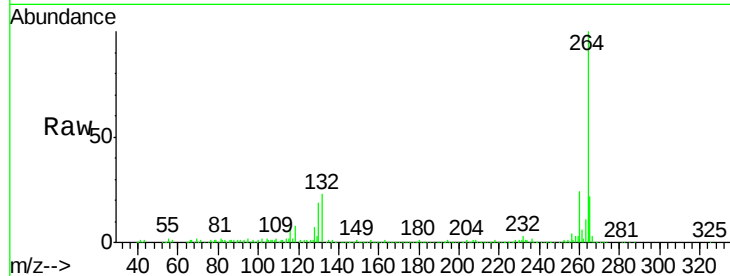




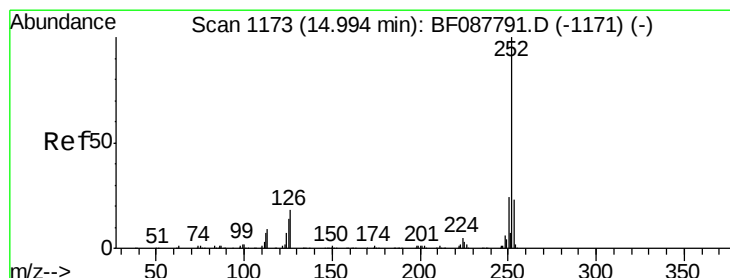
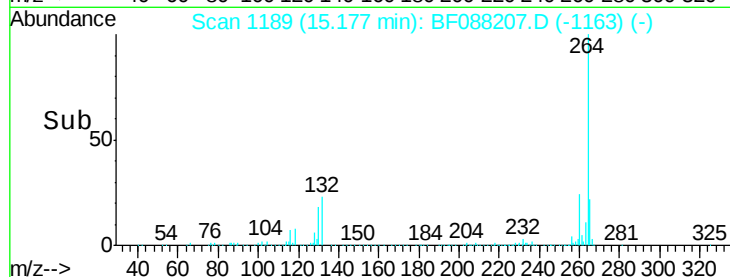
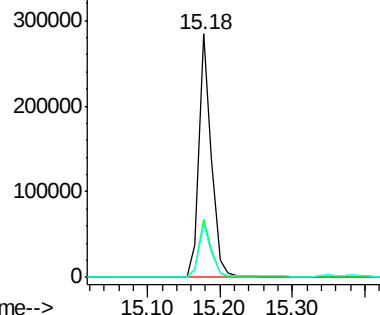
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.00 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 338984
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 22.0 16.9 25.3

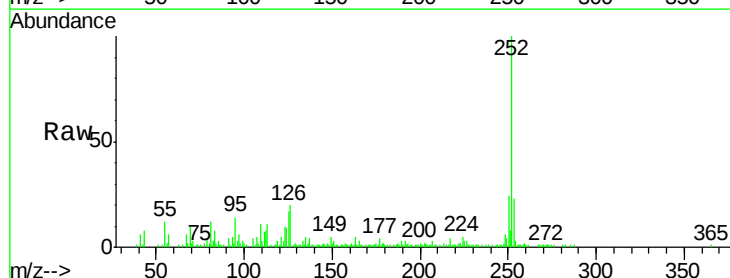


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

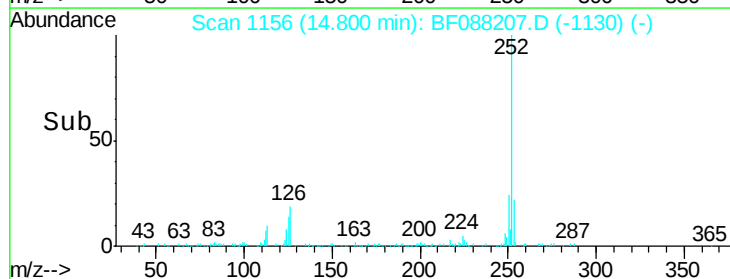
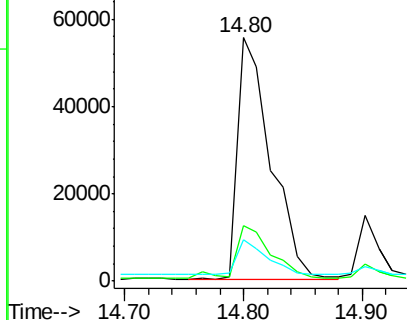


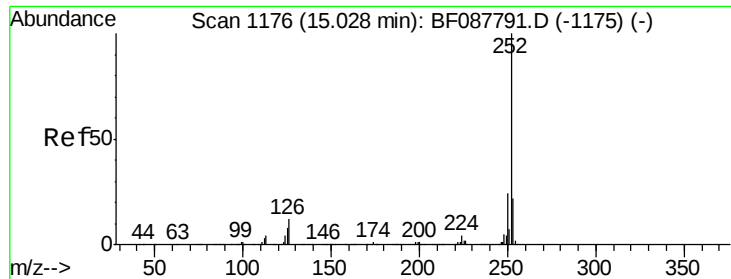
#87
Benzo(b)fluoranthene
Concen: 4.62 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.00 min
Lab File: BF088207.D
Acq: 21 Jun 2016 8:59

Tgt Ion:252 Resp: 109038
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 16.8 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: 6.12 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.02 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

Instrument :

BNA_F

ClientSampleId :

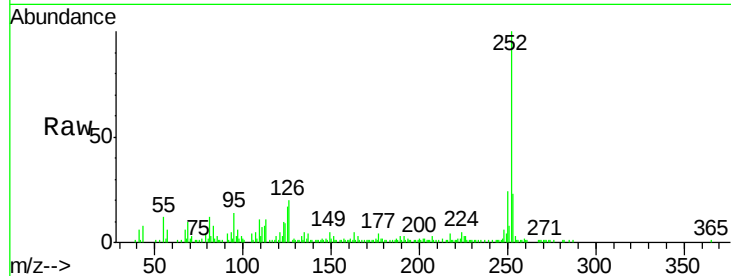
Tot Ion:252 Resp: 109038

Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

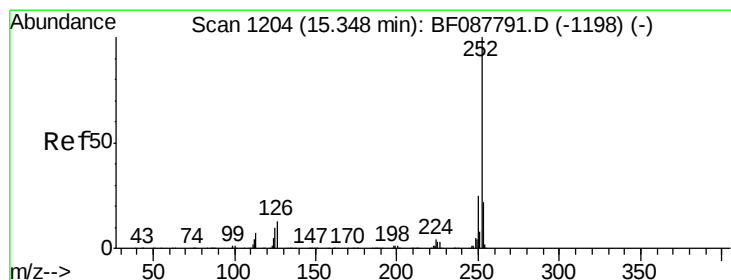
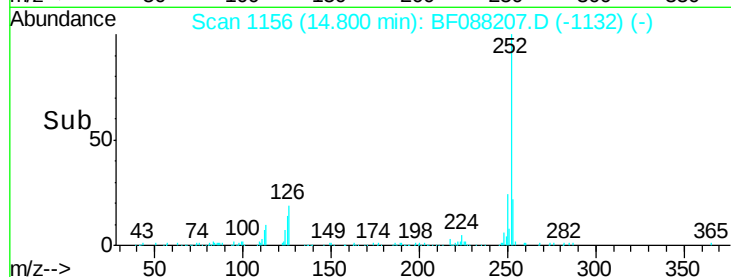
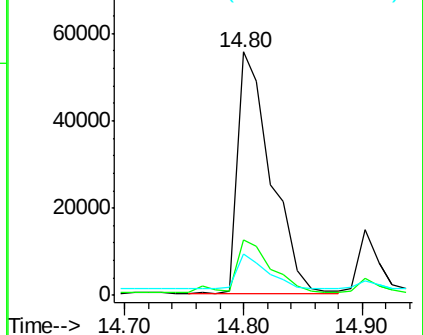
125 16.8 11.2 16.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 3.25 ng

RT: 15.13 min Scan# 1185

Delta R.T. 0.01 min

Lab File: BF088207.D

Acq: 21 Jun 2016 8:59

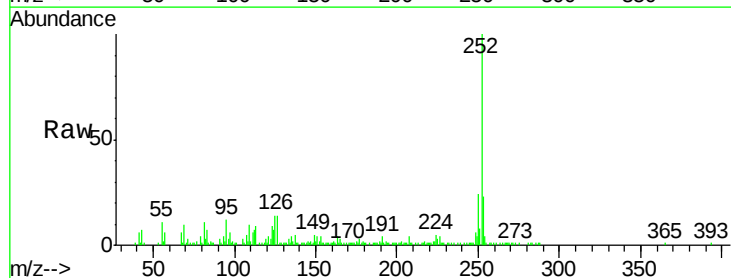
Tgt Ion:252 Resp: 62164

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

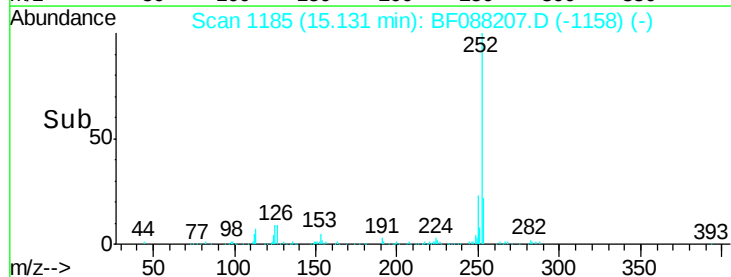
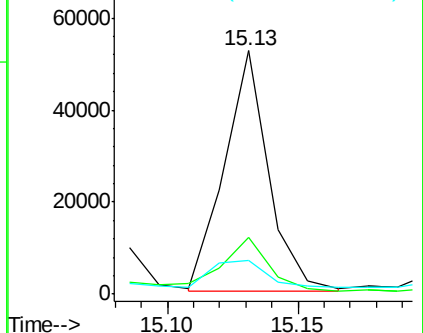
125 13.6 12.5 18.7

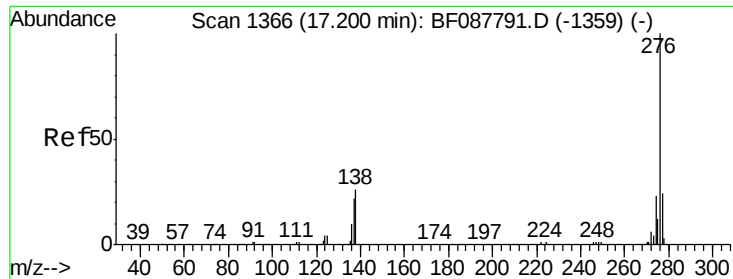


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 2.91 ng
 RT: 16.86 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: BF088207.D
 Acq: 21 Jun 2016 8:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	28.4	21.4	32.2

