

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061416\
 Data File : BF088016.D
 Acq On : 14 Jun 2016 23:53
 Operator : UM/SJ
 Sample : H3437-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T6-B4(6-12)C

Quant Time: Jun 15 03:58:58 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	107902	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	408693	20.00	ng	-0.01
38) Acenaphthene-d10	9.83	164	179865	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	280505	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	267134	20.00	ng	-0.01
86) Perylene-d12	15.35	264	214246	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	634596	100.54	ng	0.00
7) Phenol-d6	6.42	99	704618	92.11	ng	-0.01
23) Nitrobenzene-d5	7.35	82	417954	59.72	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	140979	74.23	ng	-0.01
44) 2-Fluorobiphenyl	9.15	172	660403	55.78	ng	-0.01
78) Terphenyl-d14	12.89	244	405908	34.58	ng	-0.01

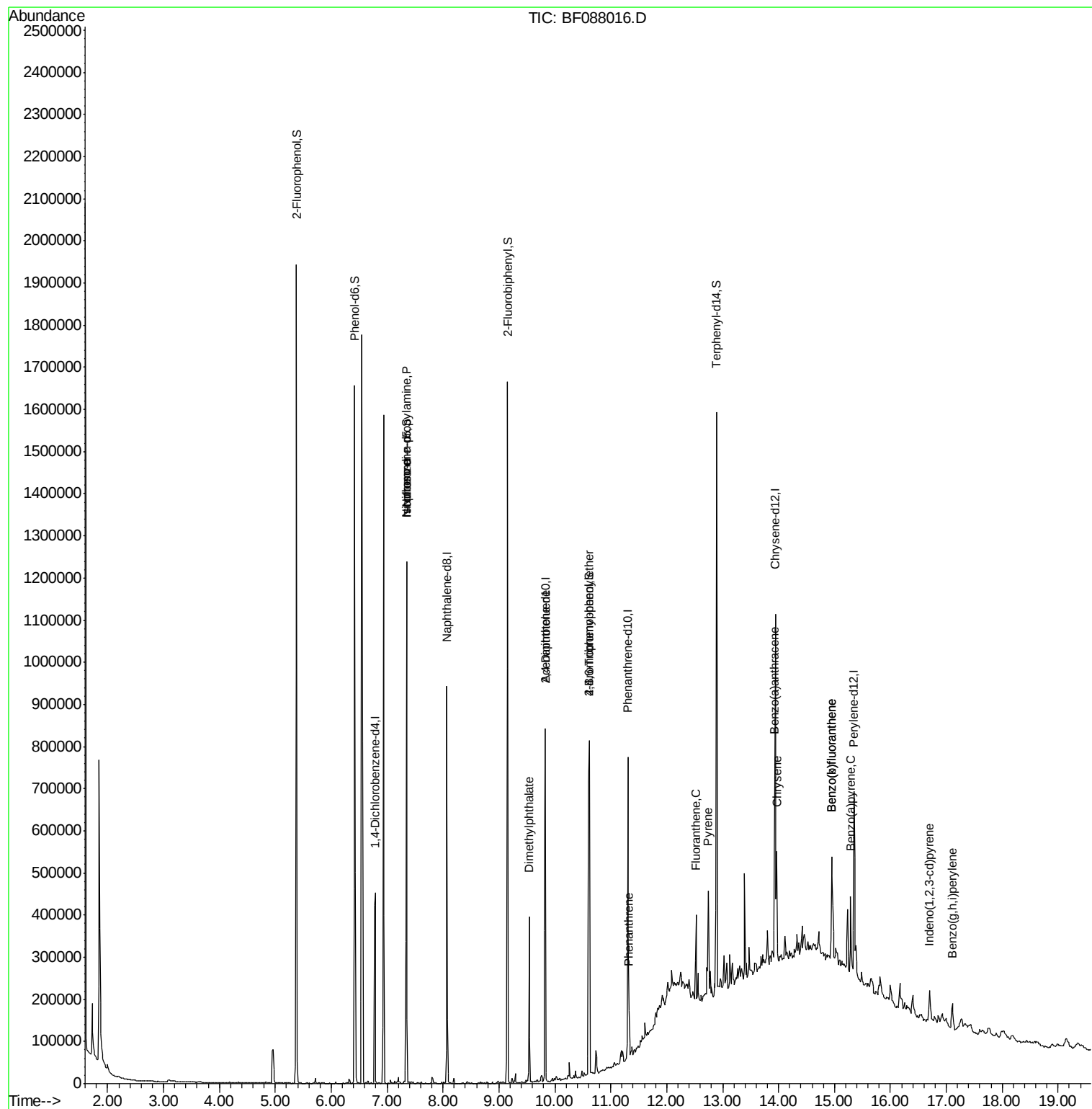
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.43	94	10998	Below Cal	#	42
19) n-Nitroso-di-n-propylamine	7.35	70	54861	11.21 ng	#	72
25) Isophorone	7.35	82	334747	25.82 ng	#	65
45) 1,1'-Biphenyl	9.24	154	1044	Below Cal		84
49) Dimethylphthalate	9.54	163	164827	12.65 ng		99
56) 2,4-Dinitrotoluene	9.83	165	23189	6.05 ng	#	37
57) Fluorene	10.36	166	4207	Below Cal	#	93
66) 4-Bromophenyl-phenylether	10.62	248	8983	2.99 ng	#	1
70) Phenanthrene	11.32	178	41357	2.81 ng		98
74) Fluoranthene	12.53	202	90099	5.80 ng		94
77) Pyrene	12.74	202	97227	4.90 ng		99
80) Benzo(a)anthracene	13.93	228	90035	5.91 ng		99
82) Chrysene	13.97	228	81963	5.72 ng		96
85) Indeno(1,2,3-cd)pyrene	16.70	276	45592	3.43 ng	#	100
87) Benzo(b)fluoranthene	14.95	252	177395	11.88 ng	#	92
88) Benzo(k)fluoranthene	14.95	252	177395	15.75 ng		97
89) Benzo(a)pyrene	15.29	252	79969	6.62 ng		99
91) Benzo(g,h,i)perylene	17.11	276	47701	4.13 ng		97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.79 min Scan# 455

Delta R.T. -0.00 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

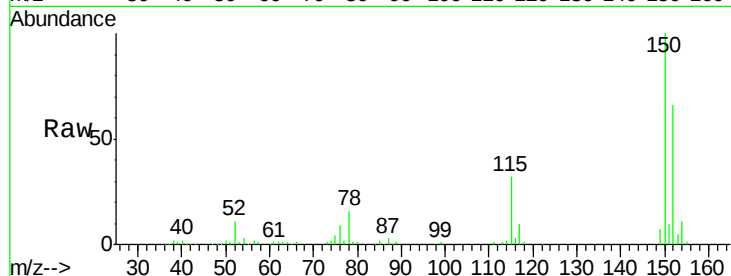
Tgt Ion:152 Resp: 107902

Ion Ratio Lower Upper

152 100

150 151.3 123.8 185.6

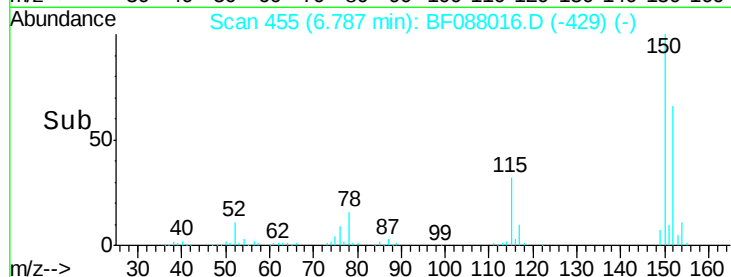
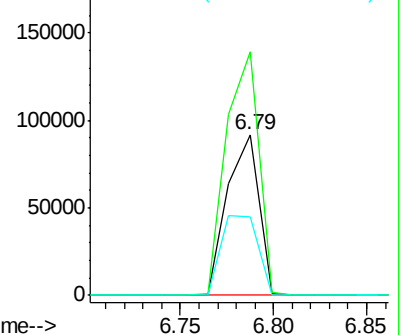
115 48.5 39.6 59.4



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: 100.54 ng

RT: 5.38 min Scan# 332

Delta R.T. -0.00 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

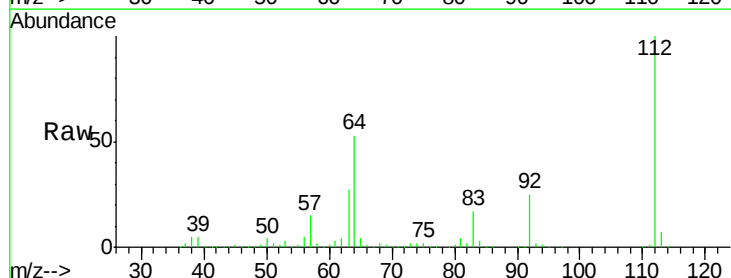
Tgt Ion:112 Resp: 634596

Ion Ratio Lower Upper

112 100

64 52.8 42.2 63.2

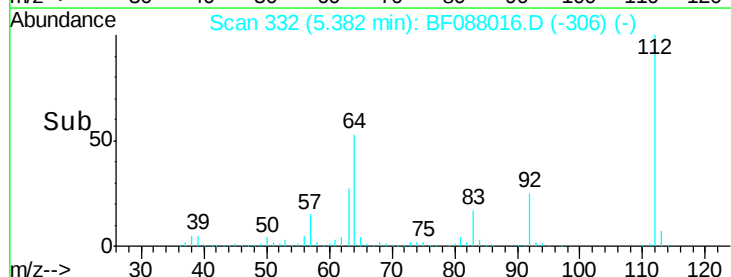
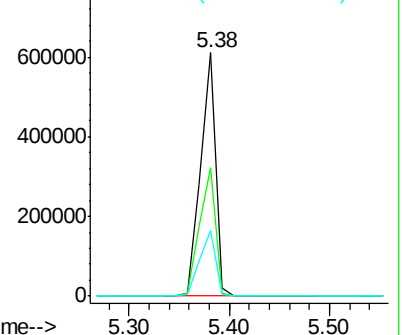
63 26.9 21.8 32.8



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: 92.11 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

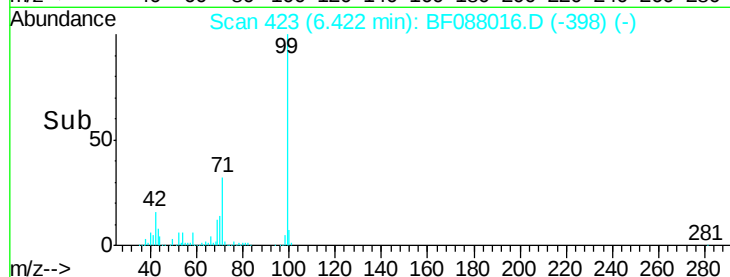
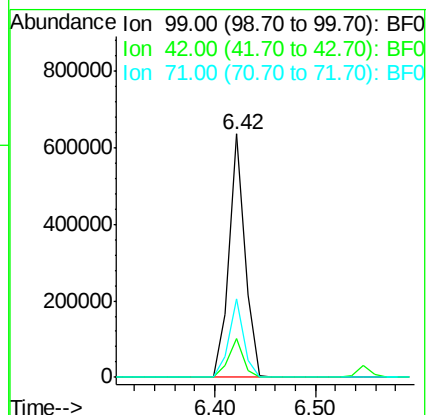
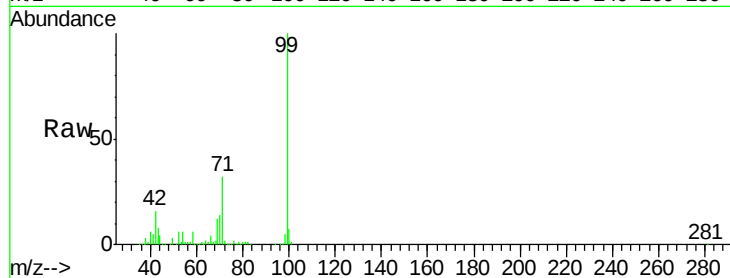
Tgt Ion: 99 Resp: 704618

Ion Ratio Lower Upper

99 100

42 15.8 12.2 18.2

71 32.1 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 11.21 ng

RT: 7.35 min Scan# 504

Delta R.T. 0.13 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Tgt Ion: 70 Resp: 54861

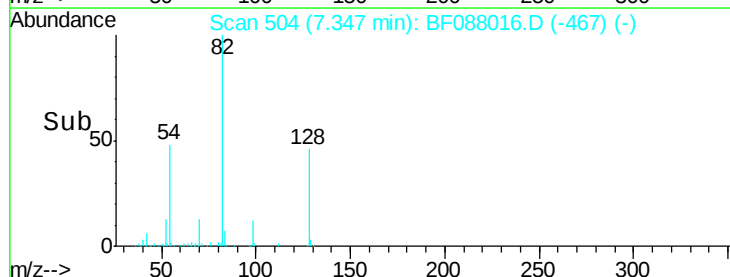
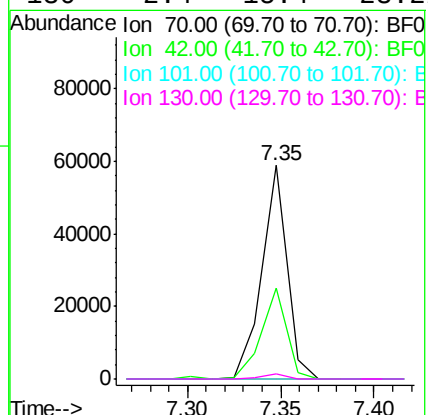
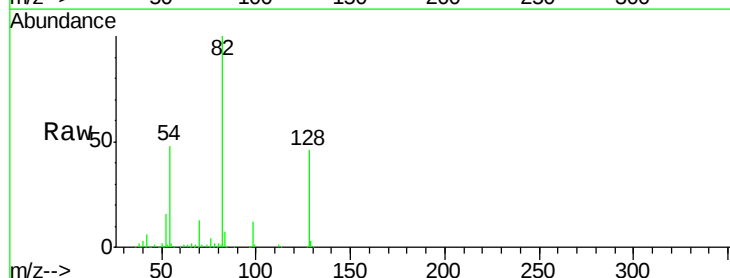
Ion Ratio Lower Upper

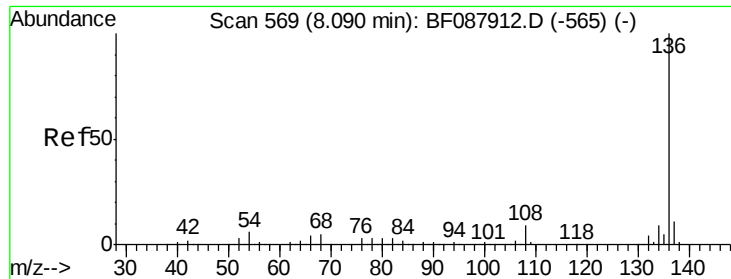
70 100

42 42.3 49.6 74.4#

101 0.0 7.1 10.7#

130 2.4 15.4 23.2#

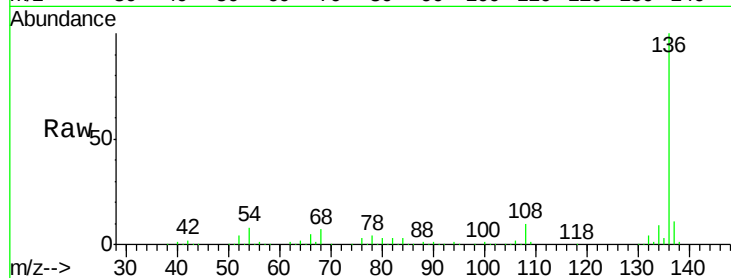




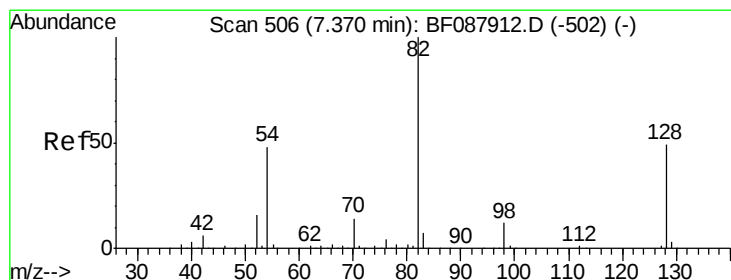
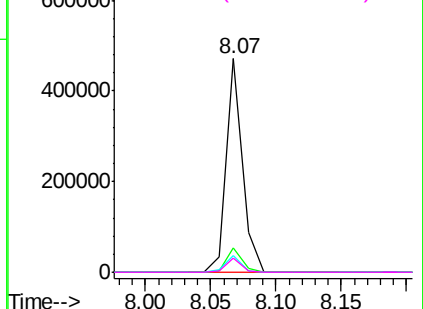
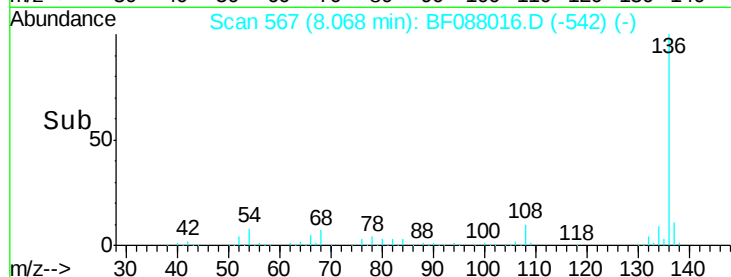
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.07 min Scan# 567
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Instrument :
BNA_F
ClientSampleId :
T6-B4(6-12)C

Tgt Ion:	136	Resp:	408693
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	8.0	6.6	10.0
68	6.6	5.1	7.7

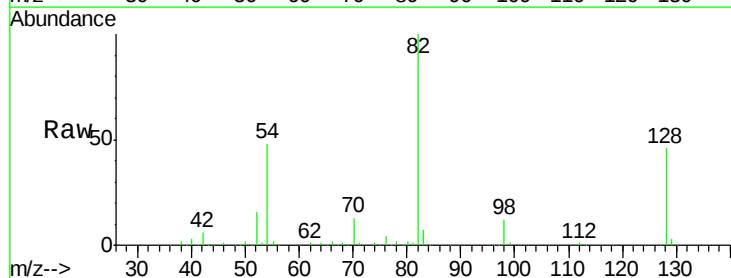


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

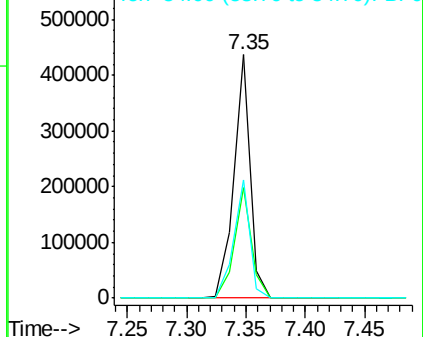
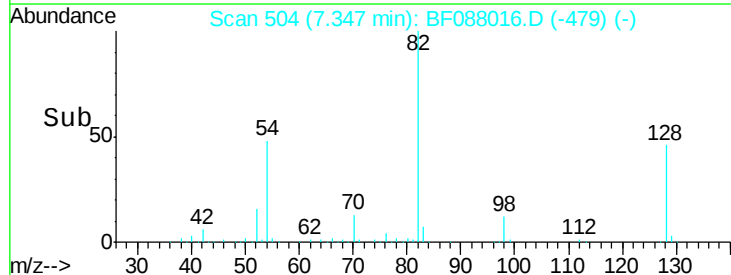


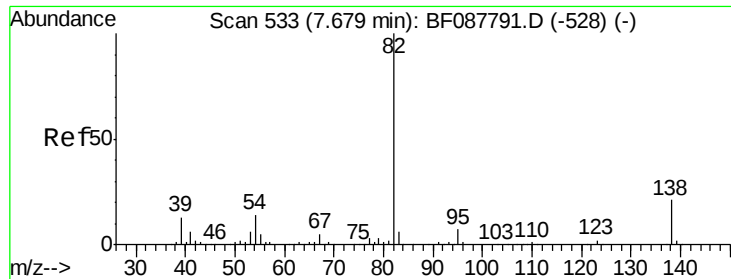
#23
Nitrobenzene-d5
Concen: 59.72 ng
RT: 7.35 min Scan# 504
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Tgt Ion:	82	Resp:	417954
Ion	Ratio	Lower	Upper
82	100		
128	45.6	35.9	53.9
54	48.3	40.9	61.3



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





#25

Isophorone

Concen: 25.82 ng

RT: 7.35 min Scan# 504

Delta R.T. -0.27 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

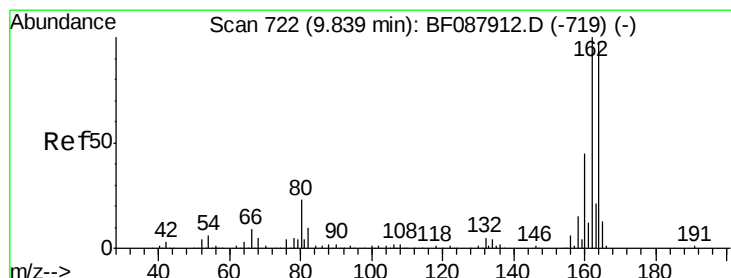
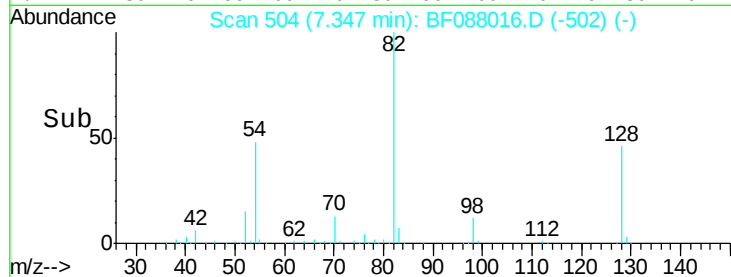
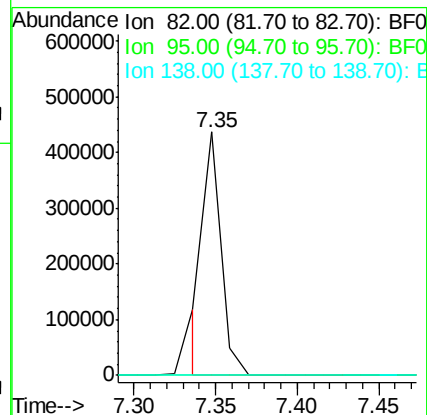
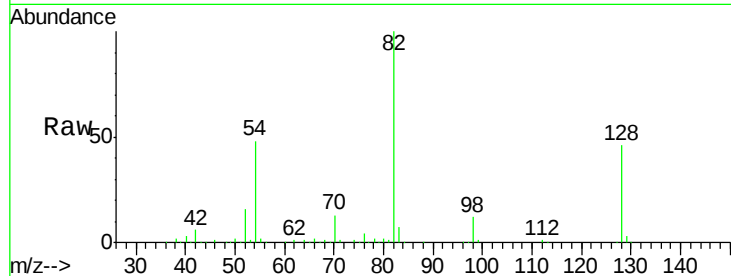
Tgt Ion: 82 Resp: 334747

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.83 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

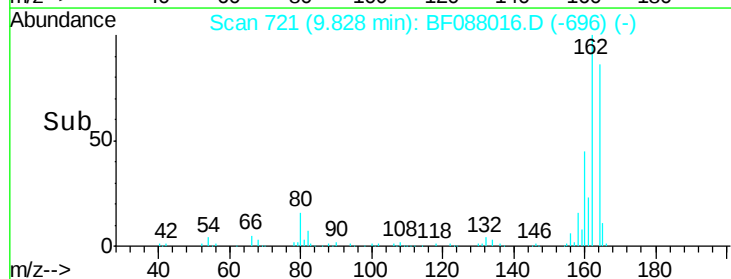
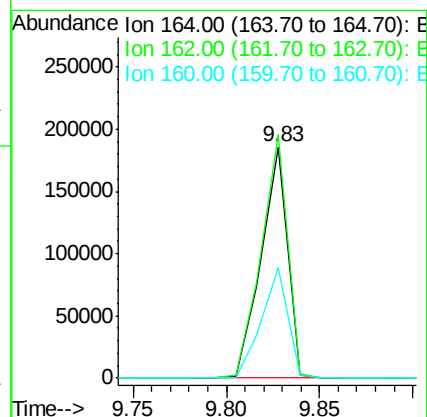
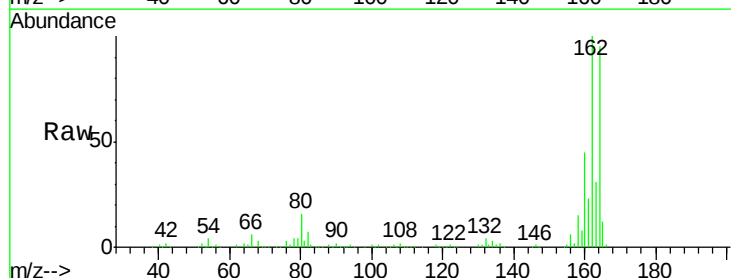
Tgt Ion: 164 Resp: 179865

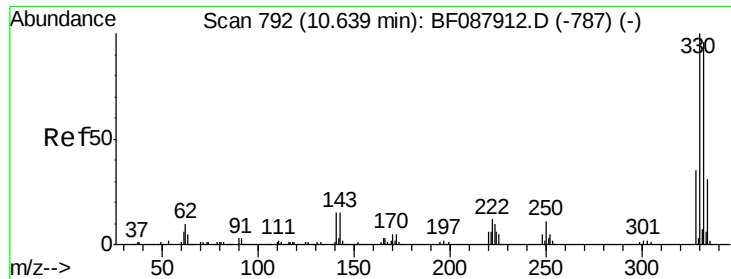
Ion Ratio Lower Upper

164 100

162 105.5 85.4 128.2

160 47.7 39.5 59.3

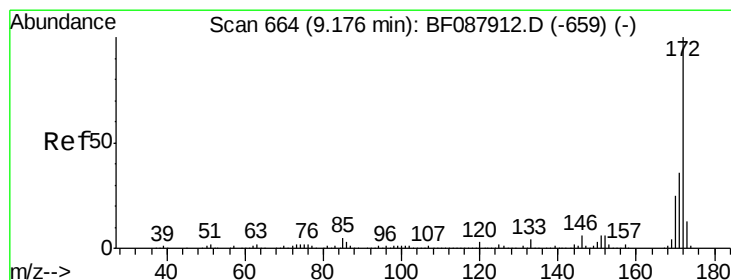
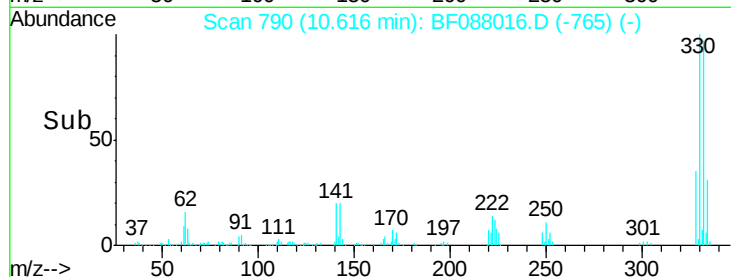
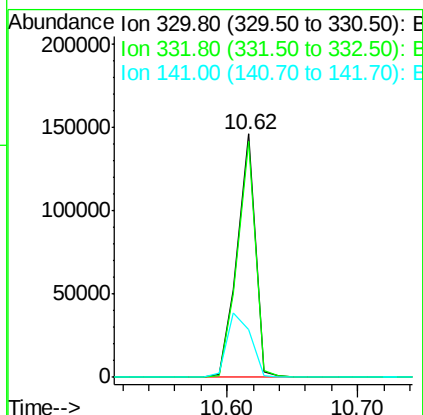
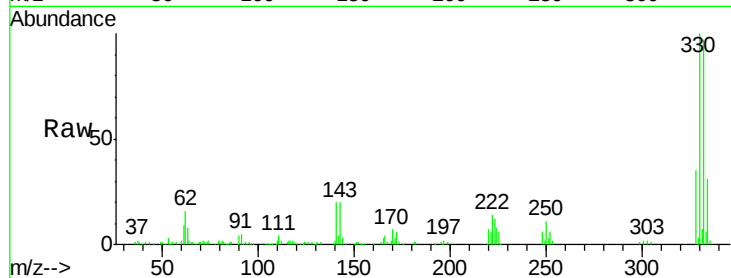




#41
 2,4,6-Tribromophenol
 Concen: 74.23 ng
 RT: 10.62 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: BF088016.D
 Acq: 14 Jun 2016 23:53

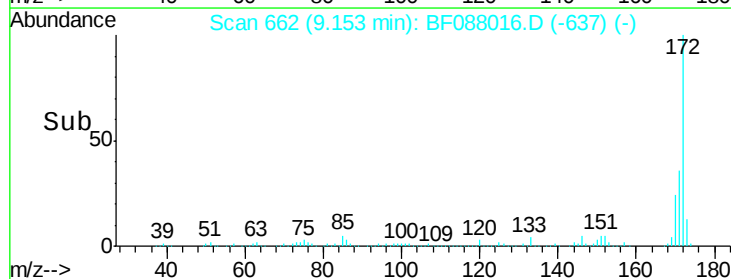
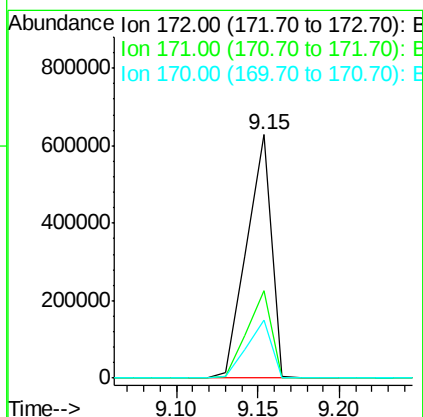
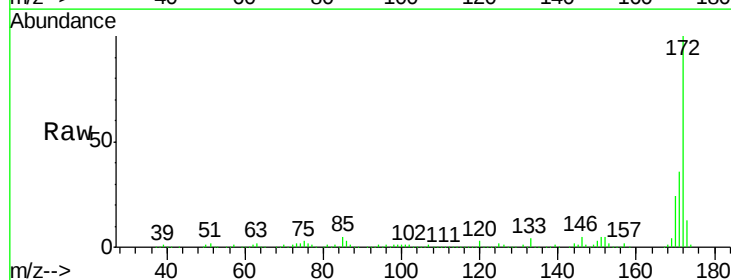
Instrument :
 BNA_F
 ClientSampleId :
 T6-B4(6-12)C

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.8	0.0	0.0#
141	35.0	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 55.78 ng
 RT: 9.15 min Scan# 662
 Delta R.T. -0.01 min
 Lab File: BF088016.D
 Acq: 14 Jun 2016 23:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.8	19.2	28.8





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.24 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

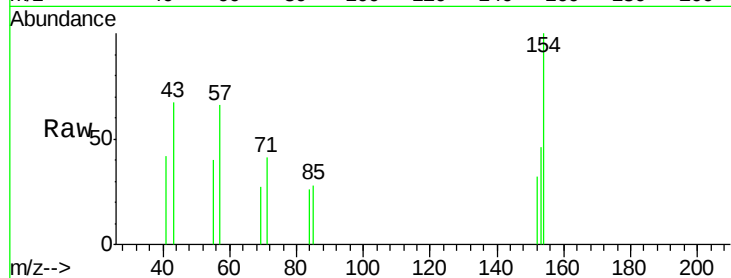
Tgt Ion:154 Resp: 1044

Ion Ratio Lower Upper

154 100

153 45.8 20.6 60.6

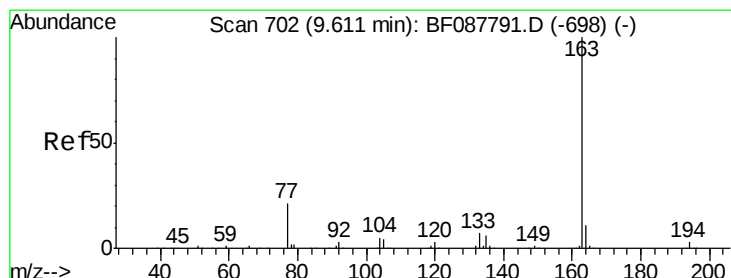
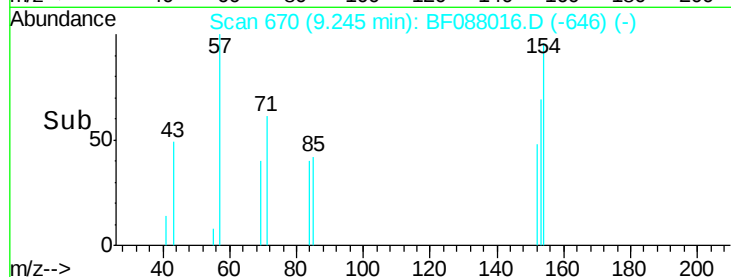
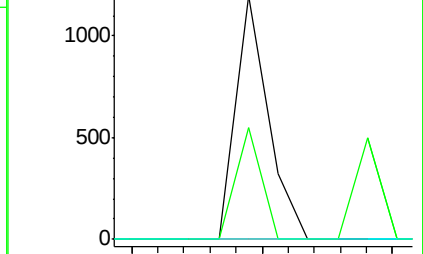
76 0.0 0.0 35.1



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: 12.65 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.02 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

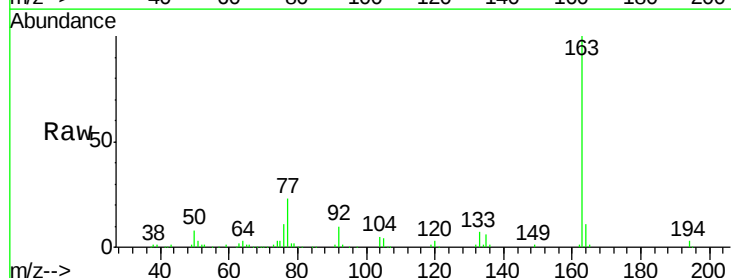
Tgt Ion:163 Resp: 164827

Ion Ratio Lower Upper

163 100

194 2.9 2.8 4.2

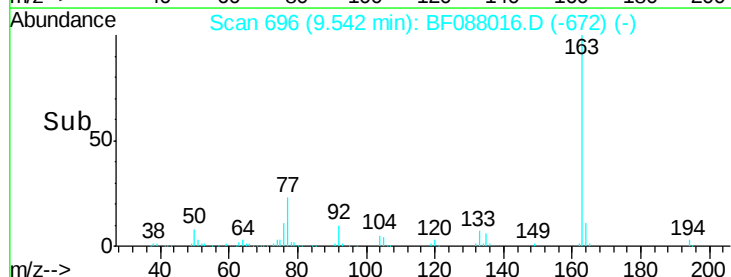
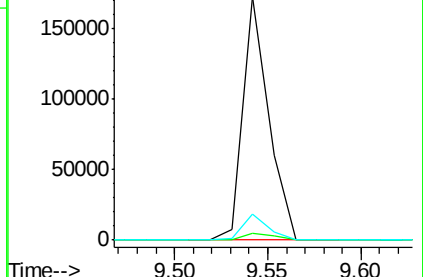
164 10.5 8.3 12.5

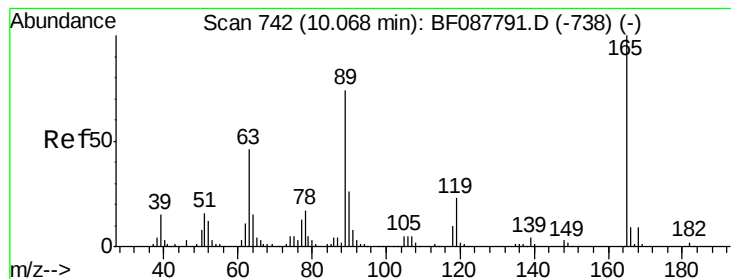


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 6.05 ng

RT: 9.83 min Scan# 721

Delta R.T. -0.21 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

Tgt Ion:165 Resp: 23189

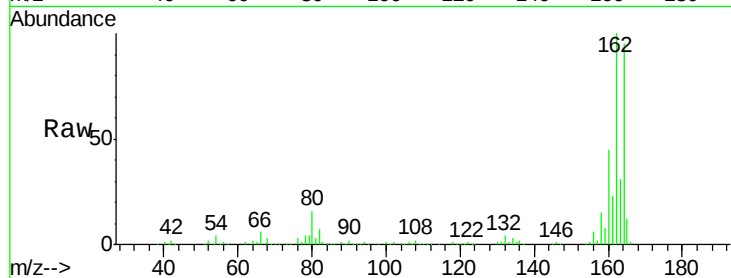
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 1.4 41.1 61.7#

182 0.0 2.0 3.0#

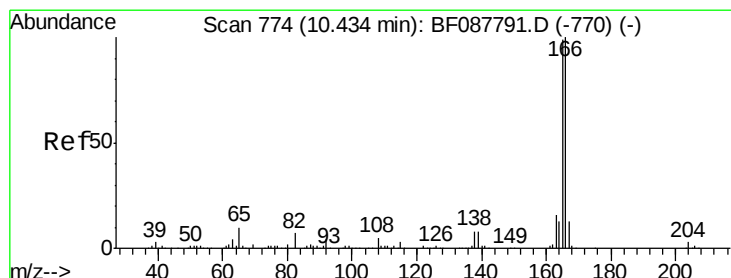
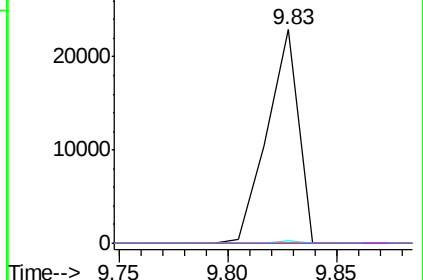
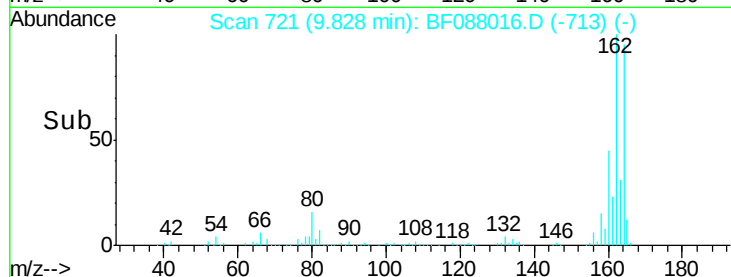


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: Below Cal

RT: 10.36 min Scan# 768

Delta R.T. -0.02 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

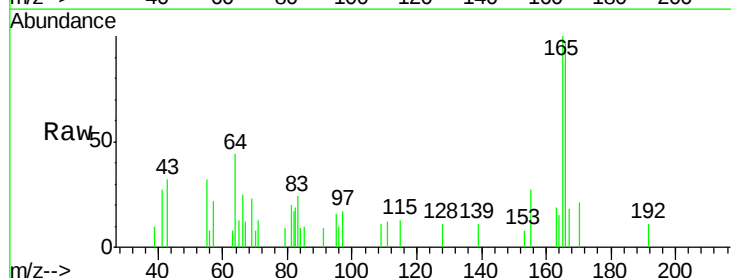
Tgt Ion:166 Resp: 4207

Ion Ratio Lower Upper

166 100

165 103.0 77.8 116.8

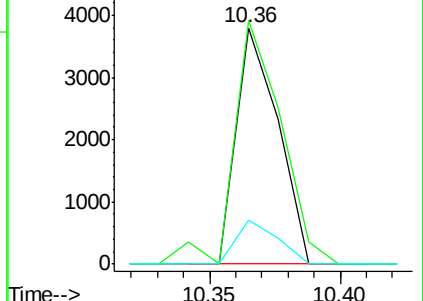
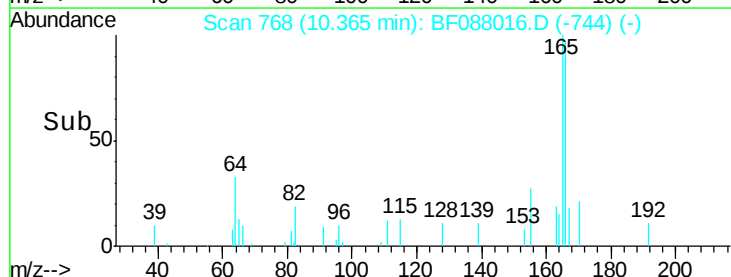
167 18.9 11.2 16.8#

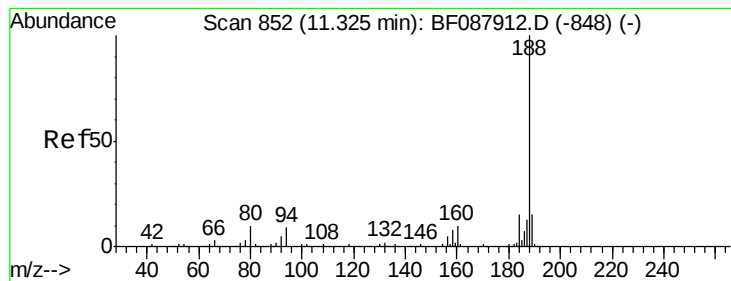


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 850

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

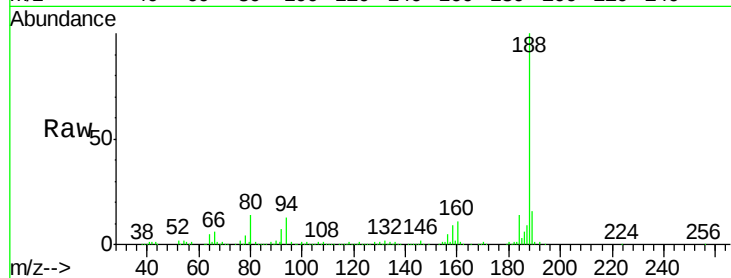
Tgt Ion:188 Resp: 280505

Ion Ratio Lower Upper

188 100

94 13.0 9.0 13.6

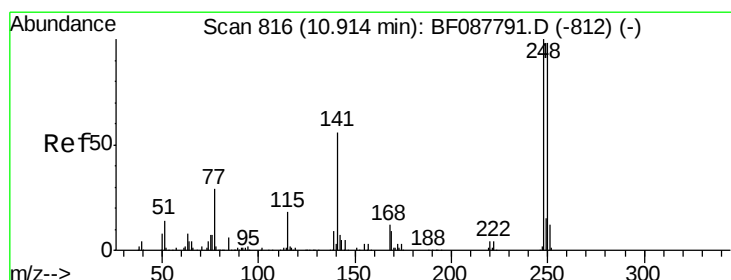
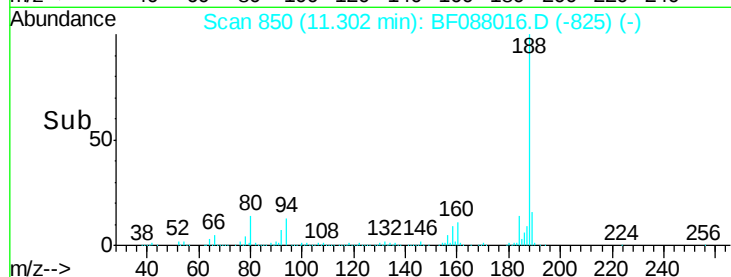
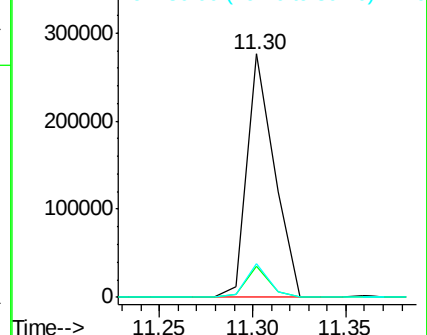
80 13.9 10.0 15.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 2.99 ng

RT: 10.62 min Scan# 790

Delta R.T. -0.25 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

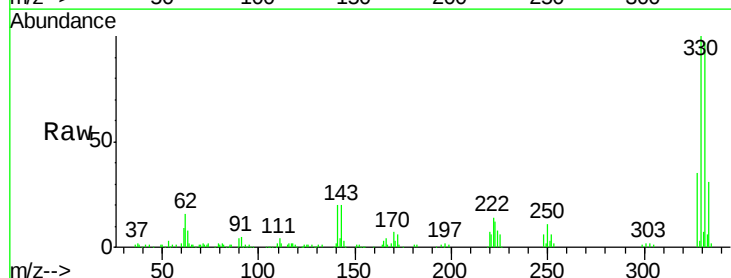
Tgt Ion:248 Resp: 8983

Ion Ratio Lower Upper

248 100

250 198.4 77.1 115.7#

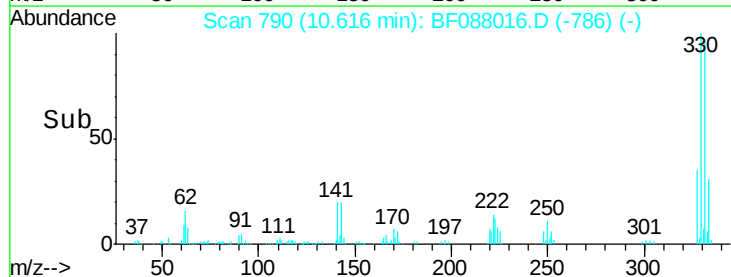
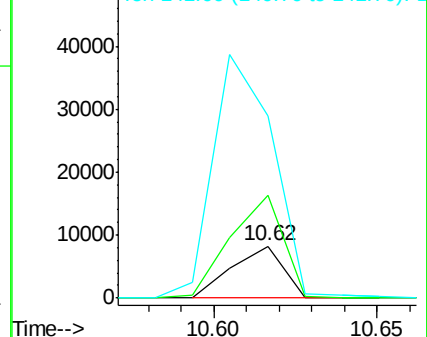
141 349.5 50.6 76.0#

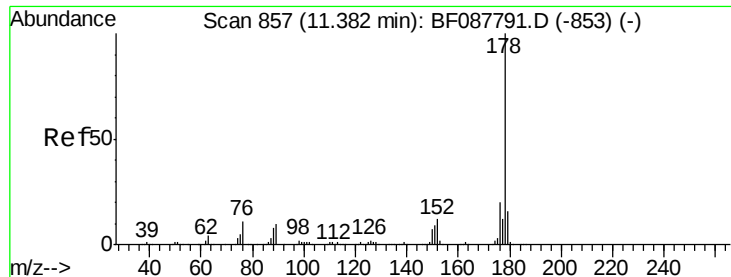


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

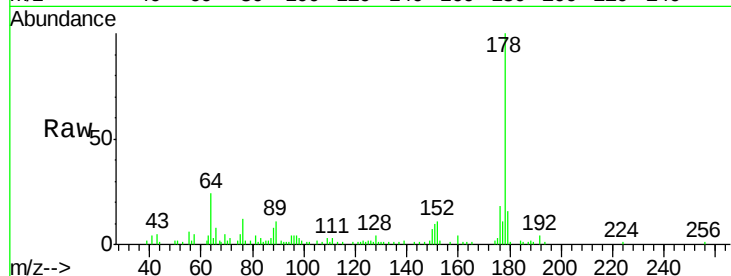




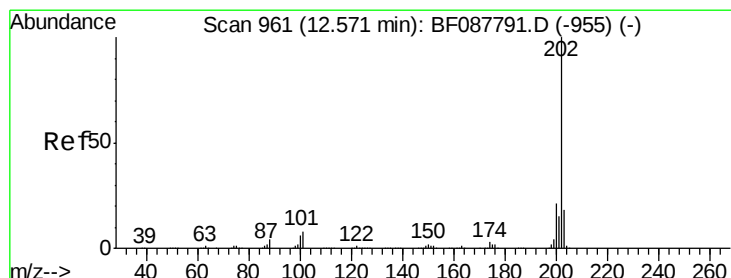
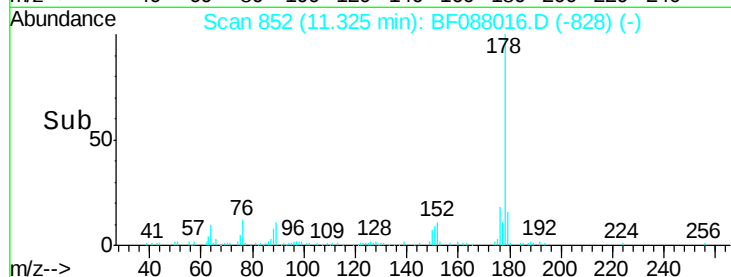
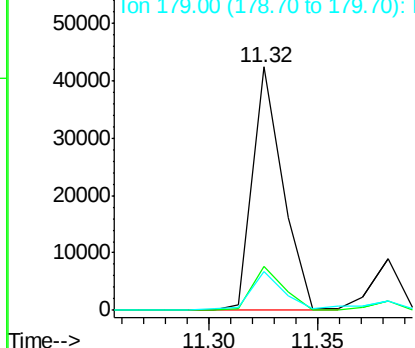
#70
Phenanthrene
Concen: 2.81 ng
RT: 11.32 min Scan# 852
Delta R.T. -0.02 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Instrument :
BNA_F
ClientSampleId :
T6-B4(6-12)C

Tgt Ion:178 Resp: 41357
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.6
179 16.0 13.0 19.4

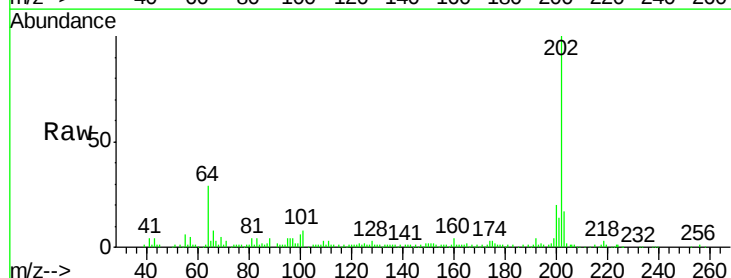


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

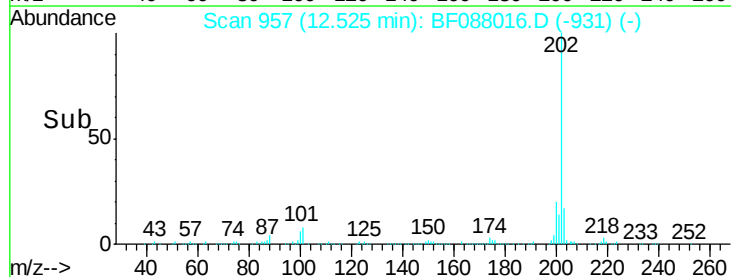
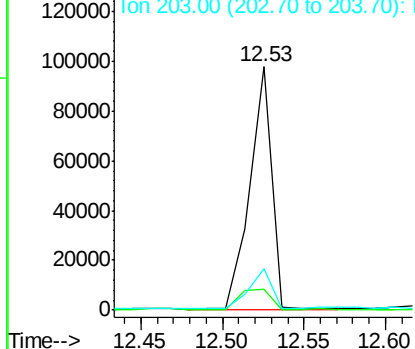


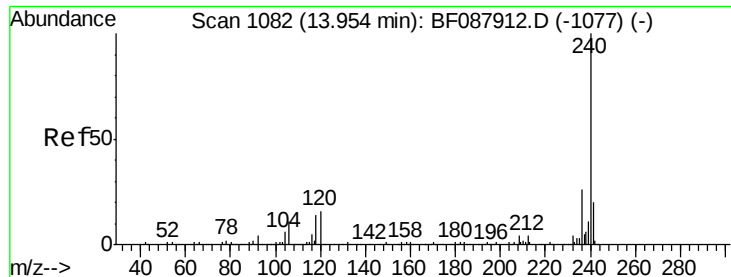
#74
Fluoranthene
Concen: 5.80 ng
RT: 12.53 min Scan# 957
Delta R.T. -0.00 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Tgt Ion:202 Resp: 90099
Ion Ratio Lower Upper
202 100
101 8.4 0.0 33.1
203 17.0 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

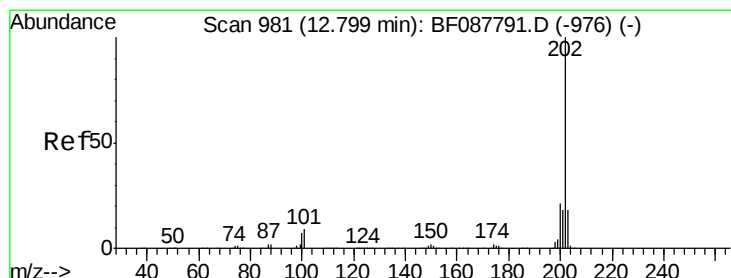
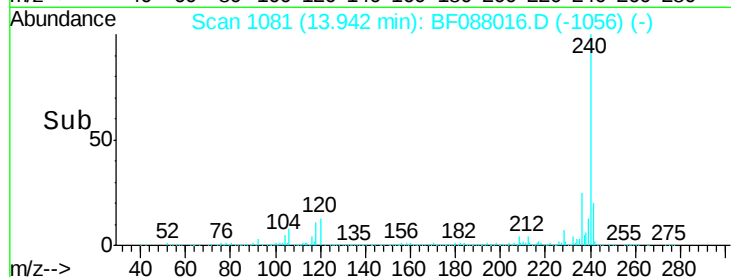
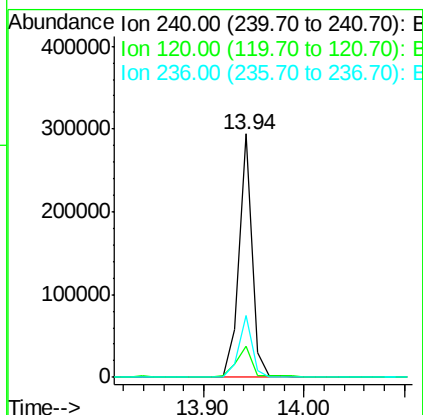
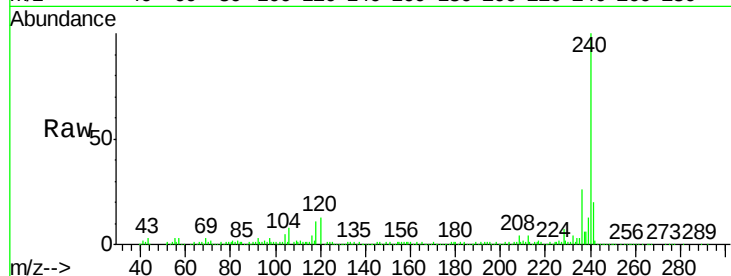




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.94 min Scan# 1081
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

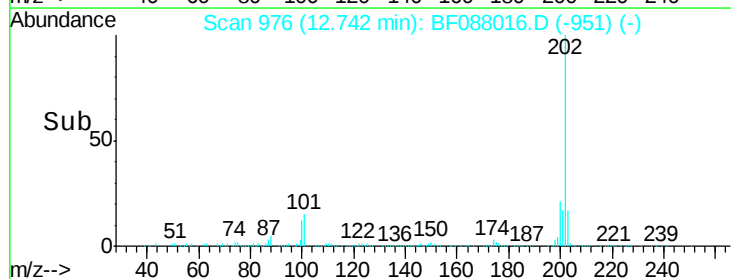
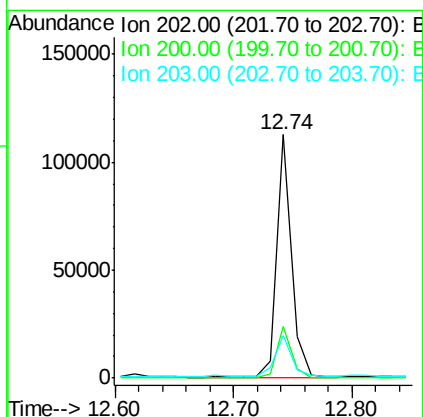
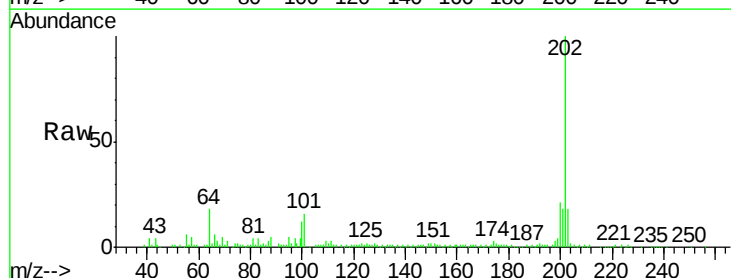
Instrument :
BNA_F
ClientSampleId :
T6-B4(6-12)C

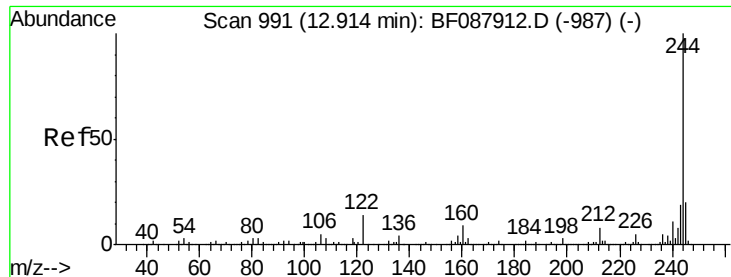
Tgt Ion:240 Resp: 267134
Ion Ratio Lower Upper
240 100
120 13.0 6.8 10.2#
236 25.6 20.2 30.2



#77
Pyrene
Concen: 4.90 ng
RT: 12.74 min Scan# 976
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Tgt Ion:202 Resp: 97227
Ion Ratio Lower Upper
202 100
200 20.9 17.4 26.2
203 17.7 14.5 21.7





#78

Terphenyl-d14

Concen: 34.58 ng

RT: 12.89 min Scan# 989

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

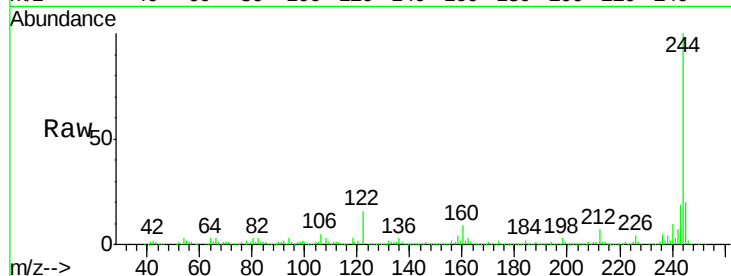
Tgt Ion:244 Resp: 405908

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

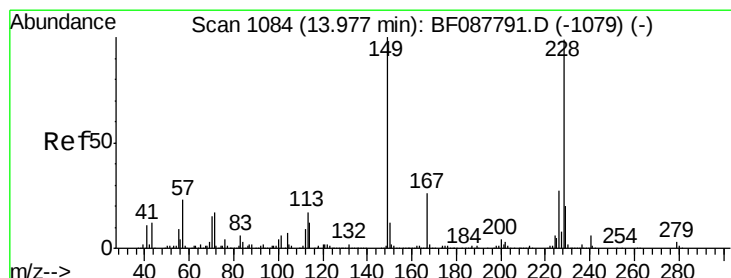
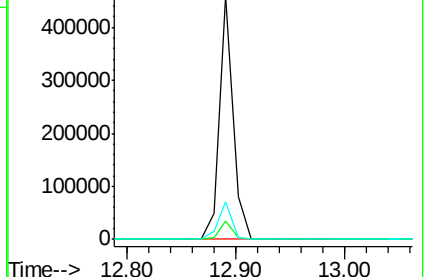
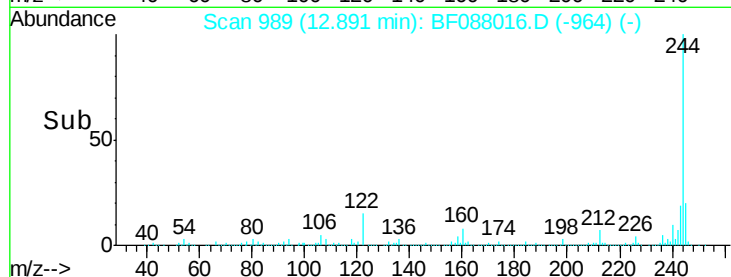
122 15.5 11.2 16.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 5.91 ng

RT: 13.93 min Scan# 1080

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

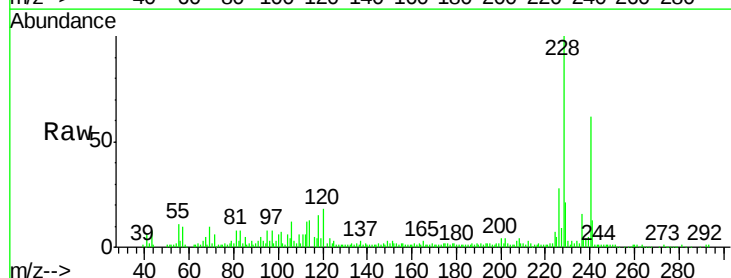
Tgt Ion:228 Resp: 90035

Ion Ratio Lower Upper

228 100

226 27.9 22.3 33.5

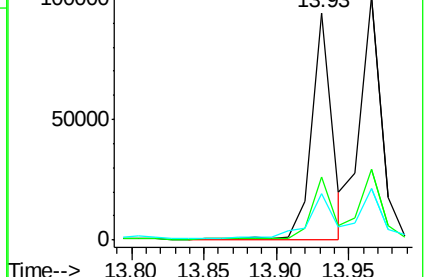
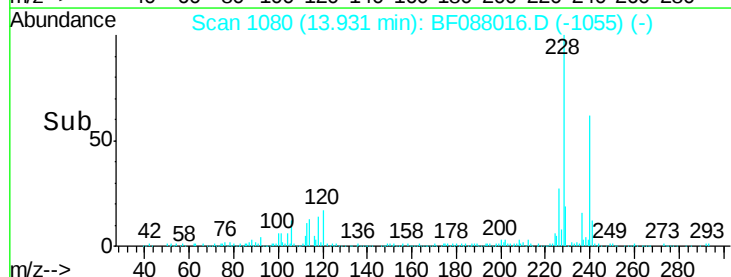
229 20.6 16.0 24.0

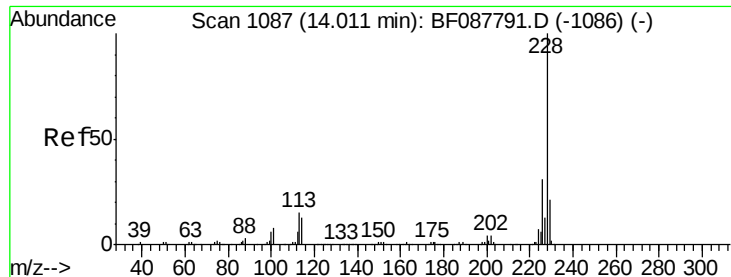


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 5.72 ng

RT: 13.97 min Scan# 1083

Delta R.T. -0.01 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

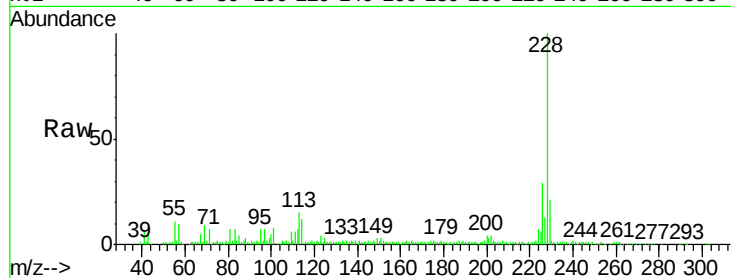
Tgt Ion:228 Resp: 81963

Ion Ratio Lower Upper

228 100

226 29.3 25.4 38.2

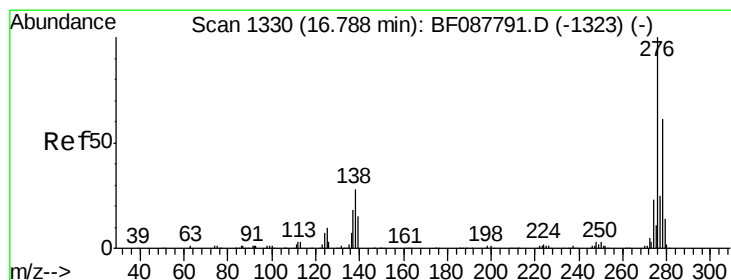
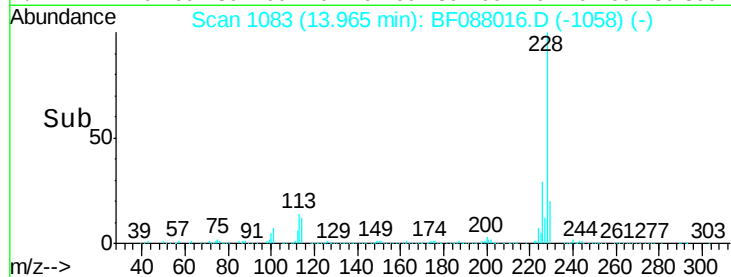
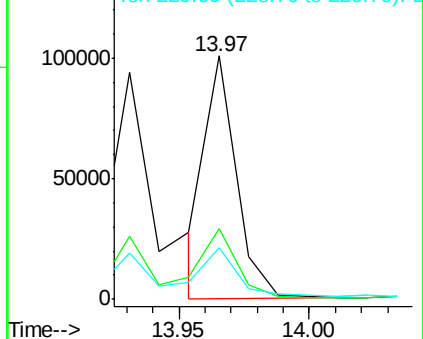
229 21.4 16.3 24.5



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: 3.43 ng

RT: 16.70 min Scan# 1322

Delta R.T. -0.02 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

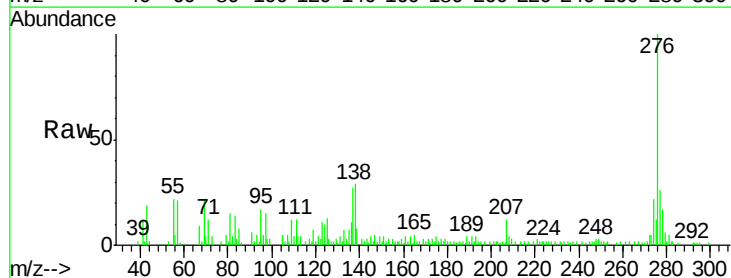
Tgt Ion:276 Resp: 45592

Ion Ratio Lower Upper

276 100

138 28.0 0.0 0.0#

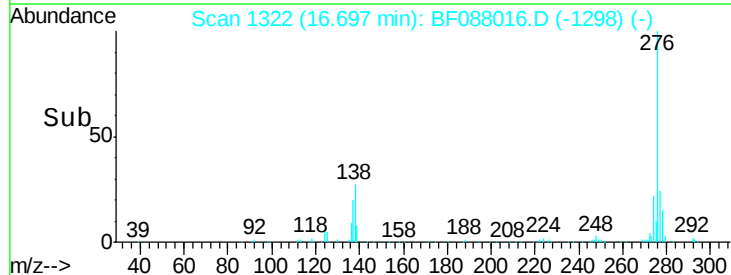
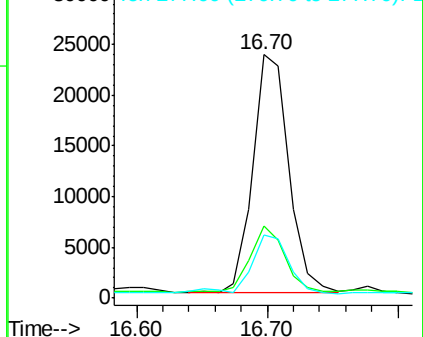
277 26.1 0.0 0.0#

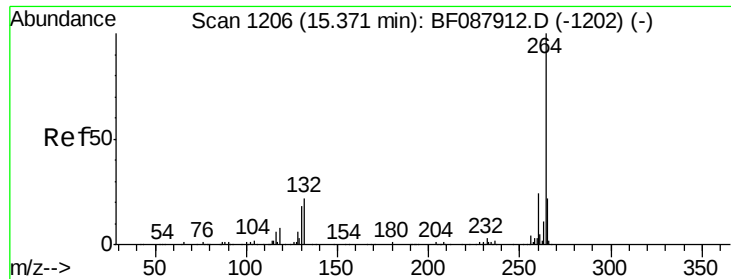


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

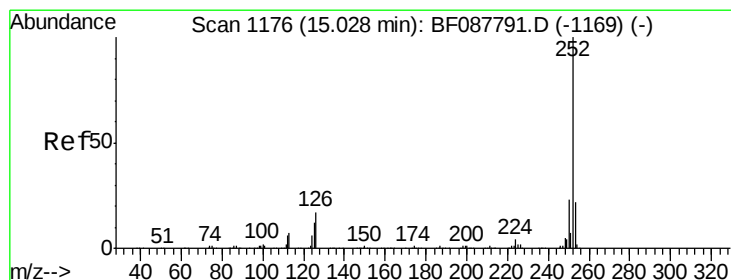
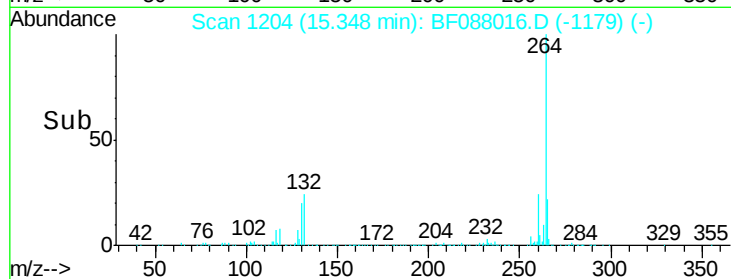
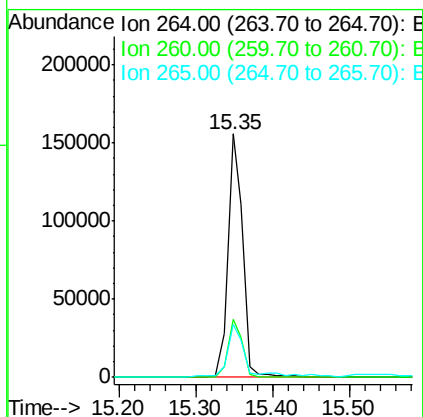
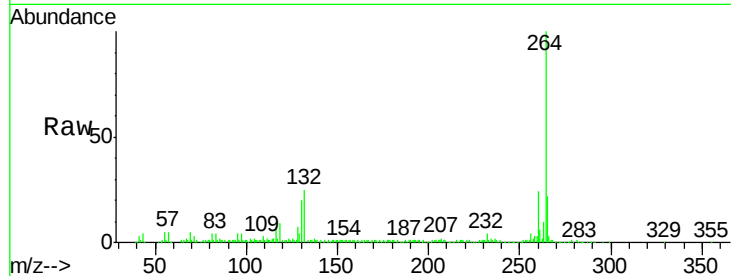




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

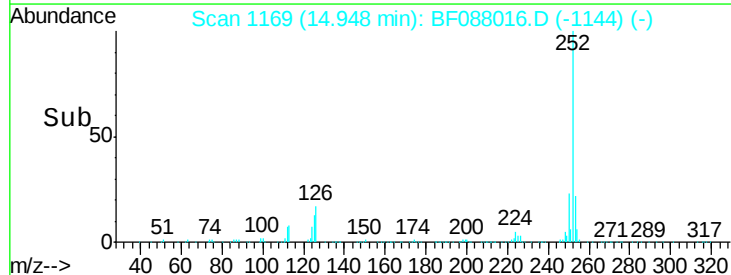
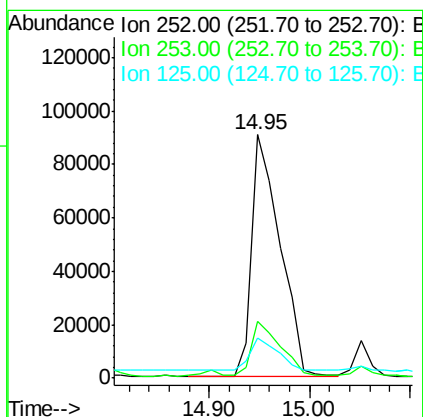
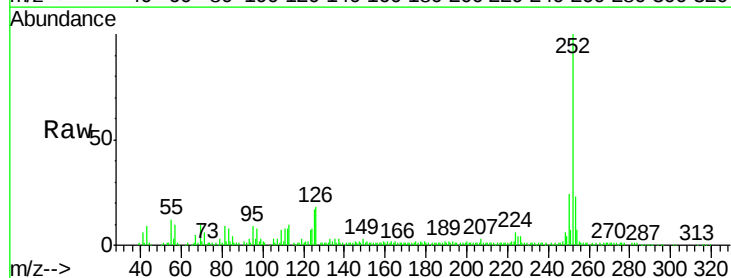
Instrument :
BNA_F
ClientSampleId :
T6-B4(6-12)C

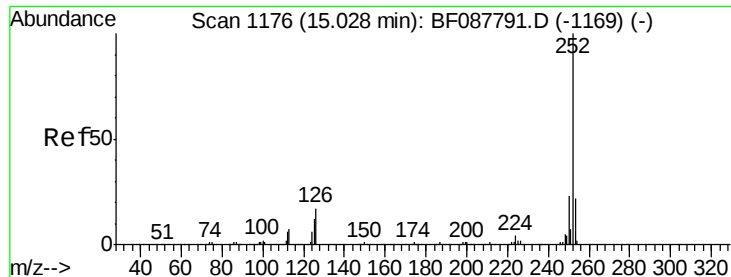
Tgt Ion:264 Resp: 214246
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.9 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 11.88 ng
RT: 14.95 min Scan# 1169
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Tgt Ion:252 Resp: 177395
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 16.5 7.1 10.7#

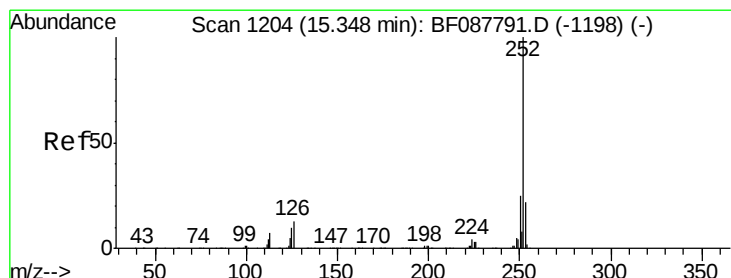
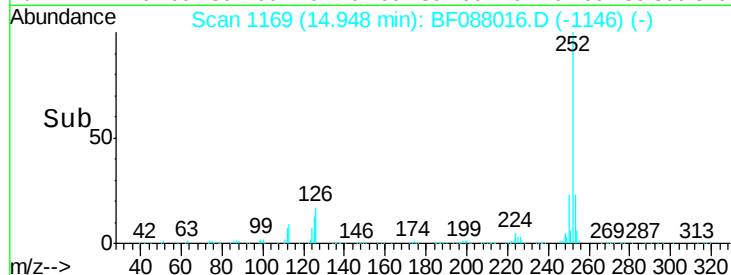
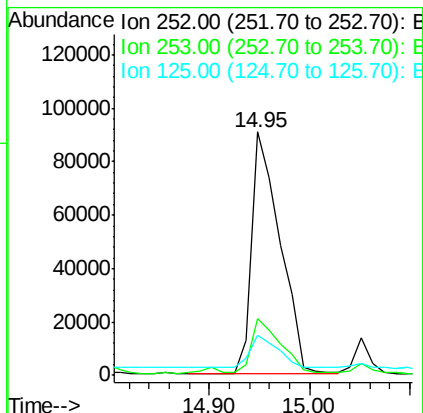
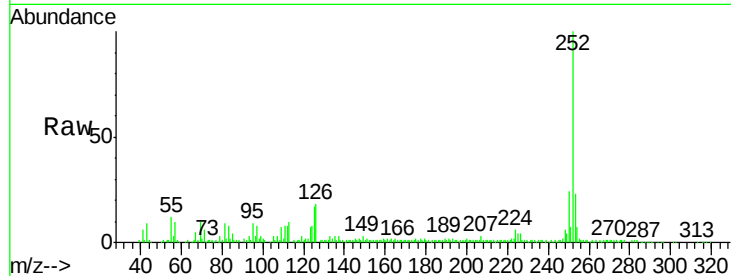




#88
Benzo(k)fluoranthene
Concen: 15.75 ng
RT: 14.95 min Scan# 1169
Delta R.T. -0.03 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

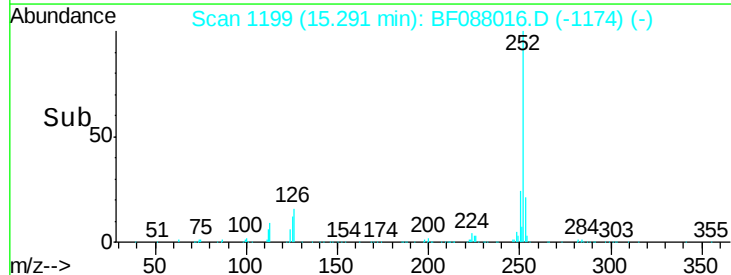
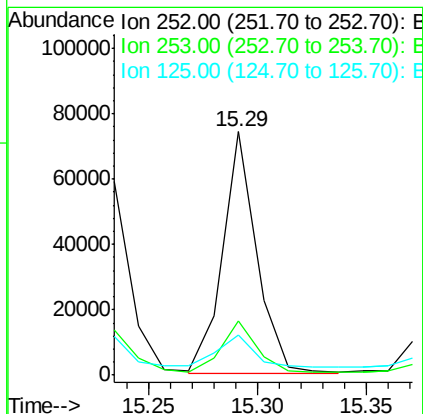
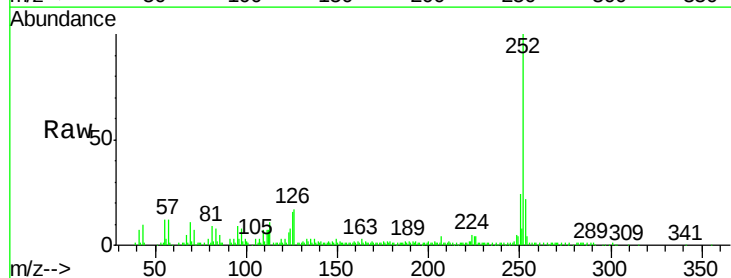
Instrument :
BNA_F
ClientSampleId :
T6-B4(6-12)C

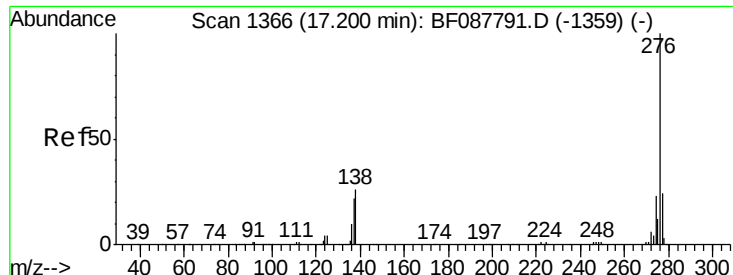
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	16.5	11.2	16.8



#89
Benzo(a)pyrene
Concen: 6.62 ng
RT: 15.29 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF088016.D
Acq: 14 Jun 2016 23:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	16.4	12.5	18.7





#91

Benzo(g,h,i)perylene

Concen: 4.13 ng

RT: 17.11 min Scan# 1358

Delta R.T. -0.02 min

Lab File: BF088016.D

Acq: 14 Jun 2016 23:53

Instrument :

BNA_F

ClientSampleId :

T6-B4(6-12)C

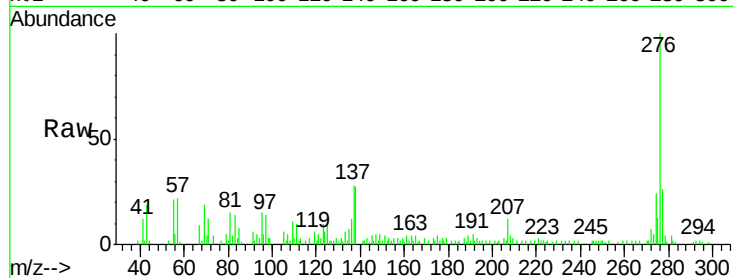
Tgt Ion:276 Resp: 47701

Ion Ratio Lower Upper

276 100

277 25.8 18.9 28.3

138 27.3 21.4 32.2



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

