

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
 Data File : BF088416.D
 Acq On : 26 Jun 2016 14:08
 Operator : UM/SJ
 Sample : H3624-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jun 27 03:53:10 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	78236	20.00	ng	-0.06
21) Naphthalene-d8	7.83	136	314355	20.00	ng	-0.07
38) Acenaphthene-d10	9.58	164	154414	20.00	ng	-0.07
63) Phenanthrene-d10	11.05	188	283765	20.00	ng	-0.07
75) Chrysene-d12	13.68	240	236077	20.00	ng	-0.07
86) Perylene-d12	15.03	264	193780	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	598979	130.88	ng	-0.05
7) Phenol-d6	6.22	99	727346	131.14	ng	-0.05
23) Nitrobenzene-d5	7.12	82	449415	83.48	ng	-0.06
41) 2,4,6-Tribromophenol	10.36	330	163011	99.98	ng	-0.07
44) 2-Fluorobiphenyl	8.91	172	734398	74.00	ng	-0.06
78) Terphenyl-d14	12.63	244	427158	41.17	ng	-0.07

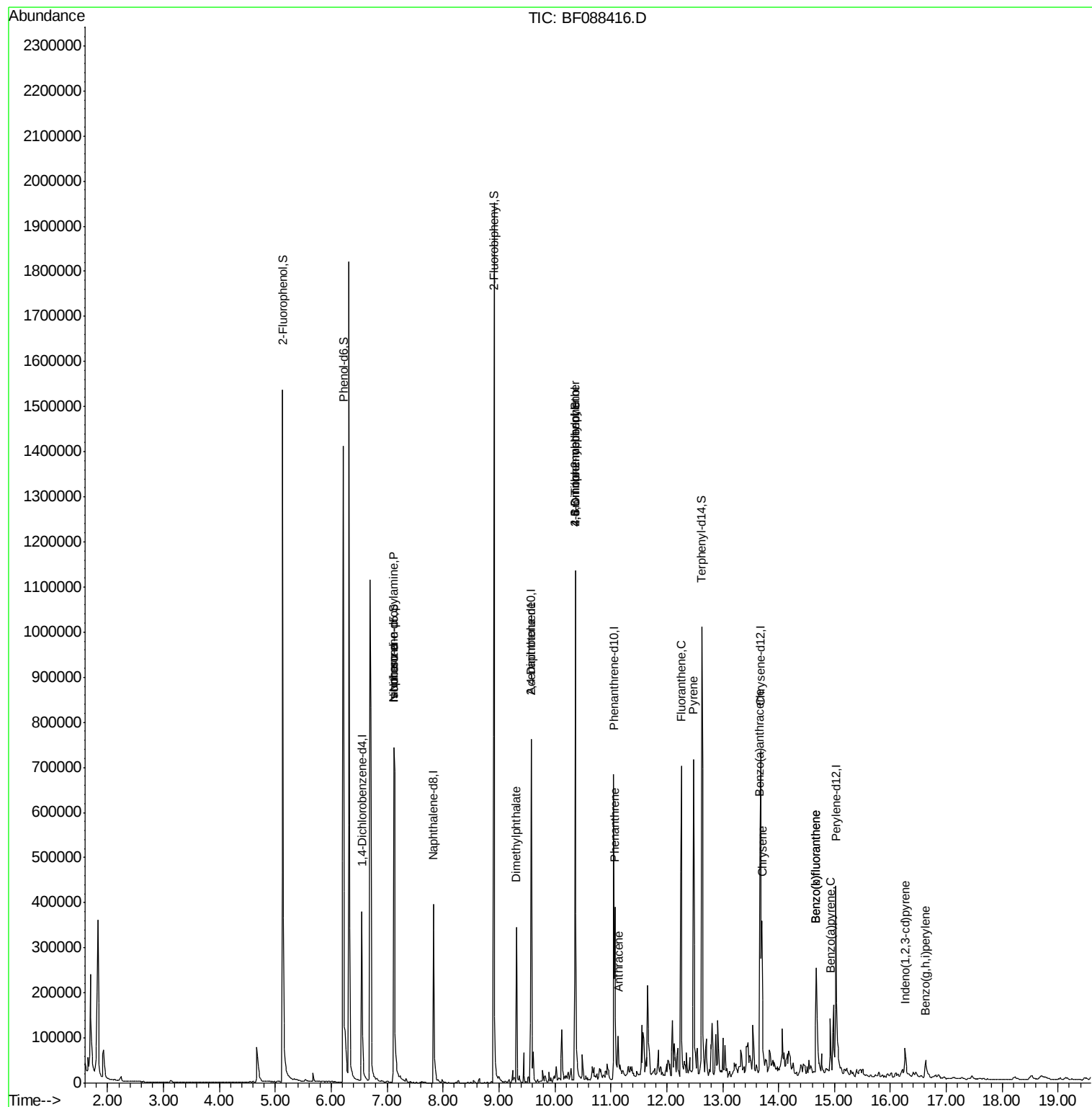
Target Compounds				Qvalue		
10) Phenol	6.23	94	6814	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.12	70	56058	15.80	ng	72
25) Isophorone	7.12	82	458282	45.96	ng	65
45) 1,1'-Biphenyl	9.02	154	1086	Below Cal		87
49) Dimethylphthalate	9.31	163	150385	13.44	ng	100
56) 2,4-Dinitrotoluene	9.58	165	20298	6.17	ng	38
57) Fluorene	10.12	166	44244	Below Cal		99
64) 4,6-Dinitro-2-methylphenol	10.36	198	262	2.30	ng	1
66) 4-Bromophenyl-phenylether	10.36	248	10135	3.33	ng	1
70) Phenanthrene	11.07	178	151865	10.20	ng	99
71) Anthracene	11.13	178	58154	3.87	ng	97
74) Fluoranthene	12.26	202	379542	24.15	ng	95
77) Pvrene	12.48	202	329244	18.79	ng	99
80) Benzo(a)anthracene	13.67	228	165906	12.33	ng	99
82) Chrysene	13.70	228	124439	9.83	ng	97
85) Indeno(1,2,3-cd)pyrene	16.26	276	42423	3.61	ng	100
87) Benzo(b)fluoranthene	14.67	252	168867	12.50	ng	96
88) Benzo(k)fluoranthene	14.67	252	168867	16.57	ng	99
89) Benzo(a)pvrene	14.93	252	52347	4.79	ng	99
91) Benzo(a,h,i)perylene	16.63	276	35209	3.37	ng	97

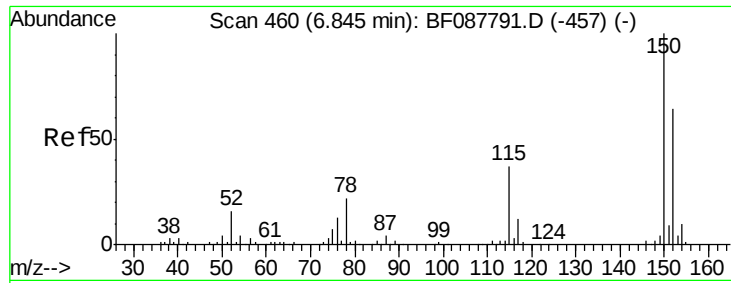
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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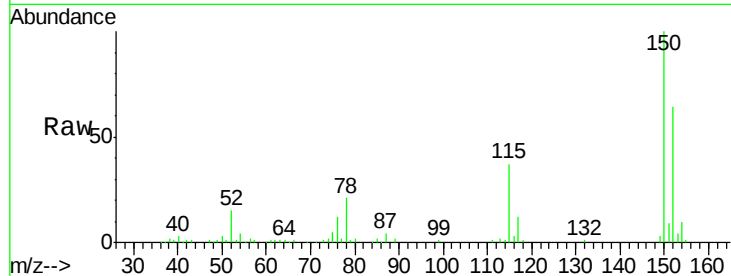




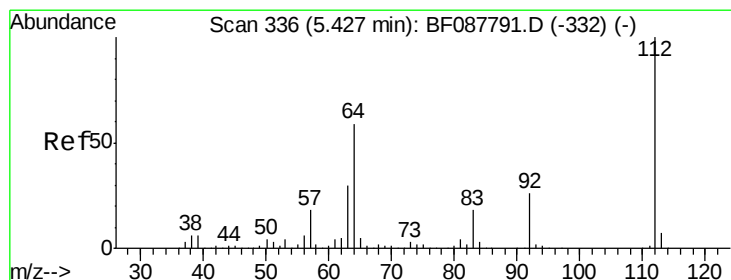
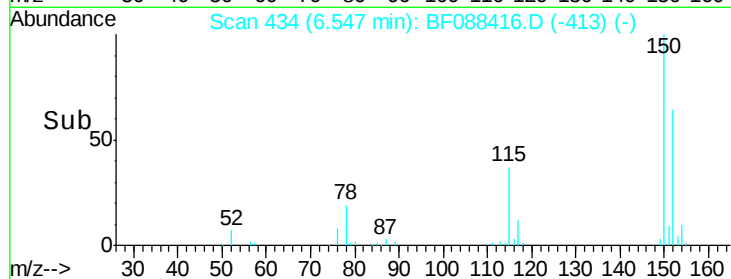
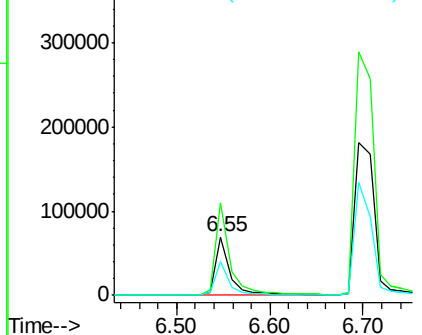
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.55 min Scan# 434
 Delta R.T. -0.06 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:152 Resp: 78236
 Ion Ratio Lower Upper
 152 100
 150 157.3 123.8 185.6
 115 58.2 39.6 59.4

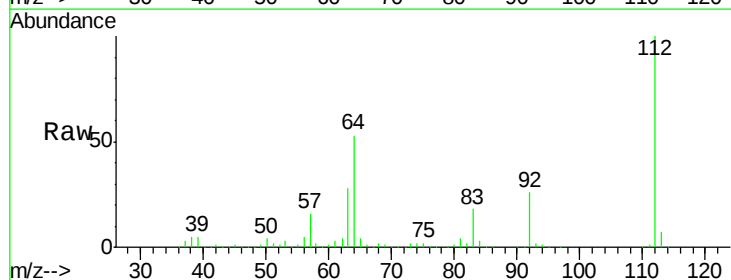


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

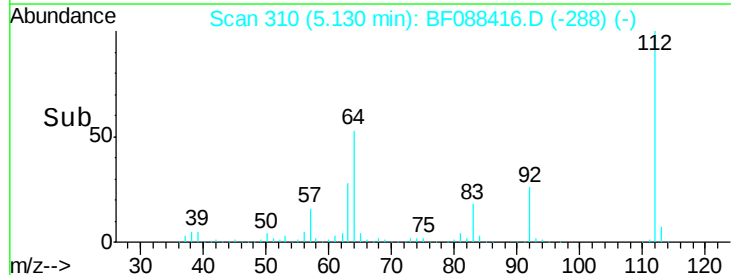
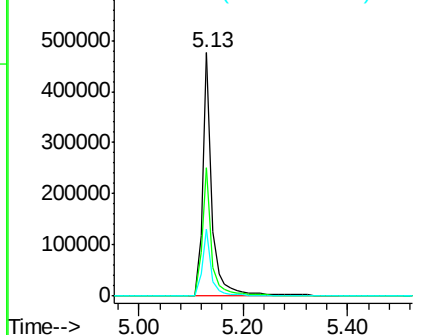


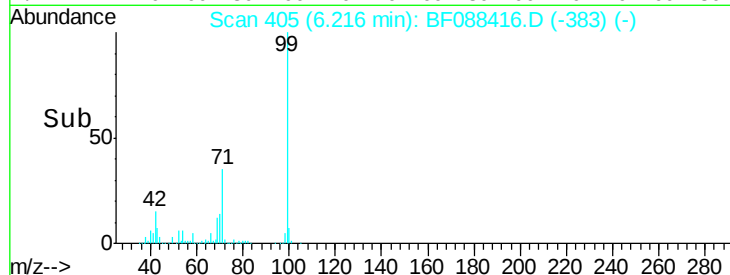
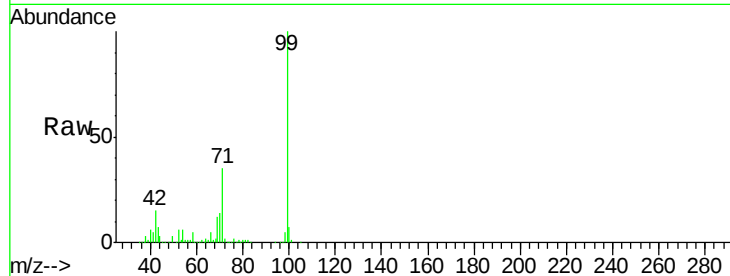
#5
 2-Fluorophenol
 Concen: 130.88 ng
 RT: 5.13 min Scan# 310
 Delta R.T. -0.05 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Tgt Ion:112 Resp: 598979
 Ion Ratio Lower Upper
 112 100
 64 52.7 42.2 63.2
 63 27.7 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: 131.14 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.05 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

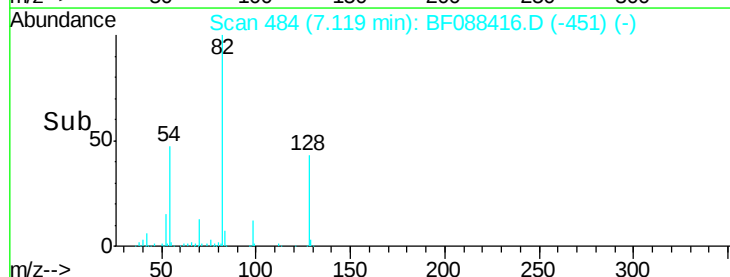
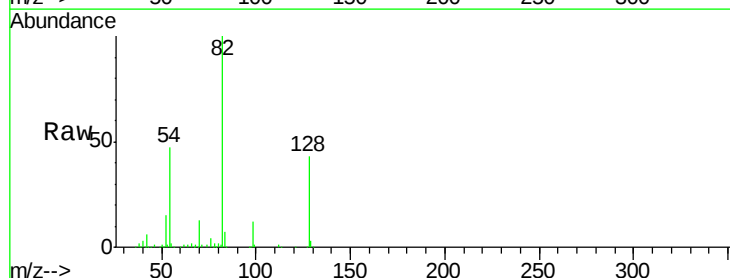
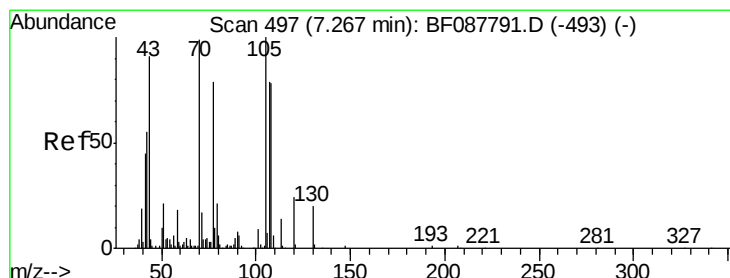
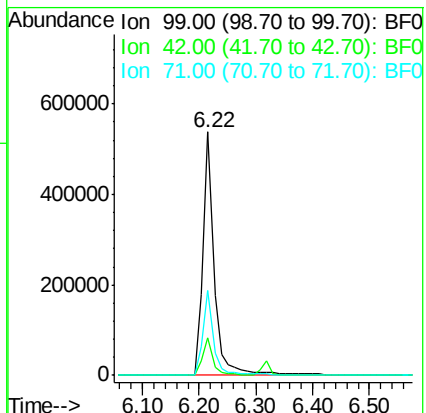
Tot Ion: 99 Resp: 727346

Ion Ratio Lower Upper

99 100

42 15.2 12.2 18.2

71 34.9 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.80 ng

RT: 7.12 min Scan# 484

Delta R.T. 0.08 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Tgt Ion: 70 Resp: 56058

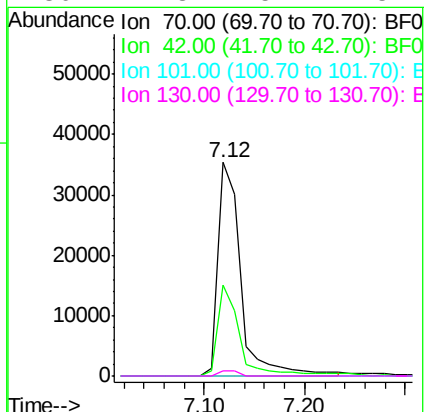
Ion Ratio Lower Upper

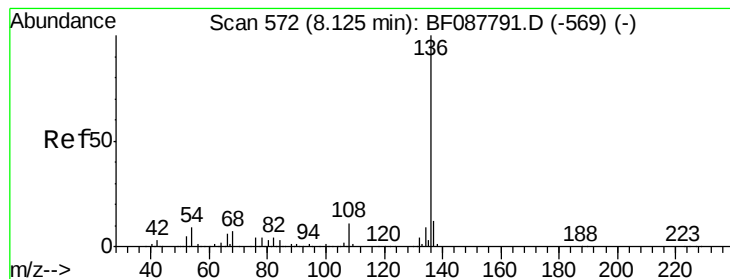
70 100

42 42.4 49.6 74.4#

101 0.0 7.1 10.7#

130 2.3 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.83 min Scan# 546

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampled :

Tot Ion:136 Resp: 314355

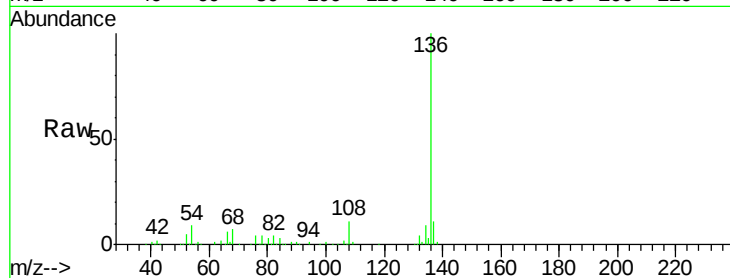
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 8.7 6.6 10.0

68 7.1 5.1 7.7

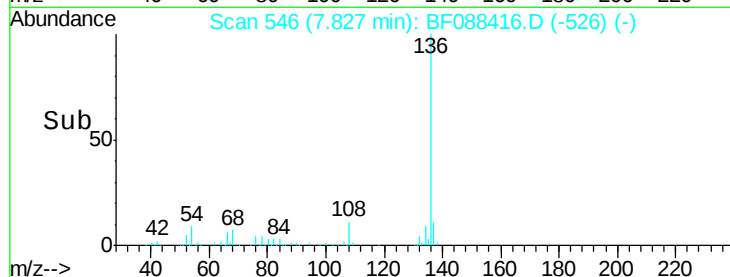


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Abundance

7.83

200000

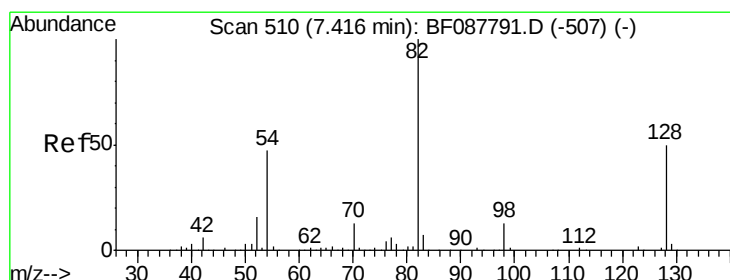
150000

100000

50000

0

Time-->



#23

Nitrobenzene-d5

Concen: 83.48 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.06 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

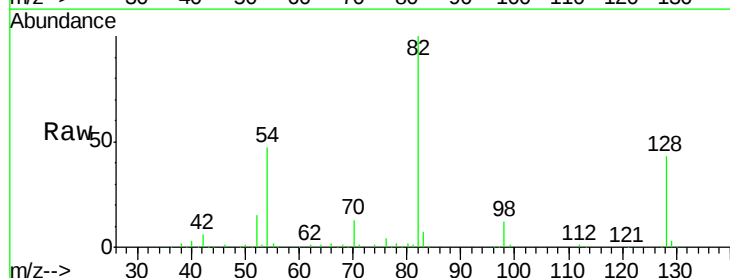
Tgt Ion: 82 Resp: 449415

Ion Ratio Lower Upper

82 100

128 43.5 35.9 53.9

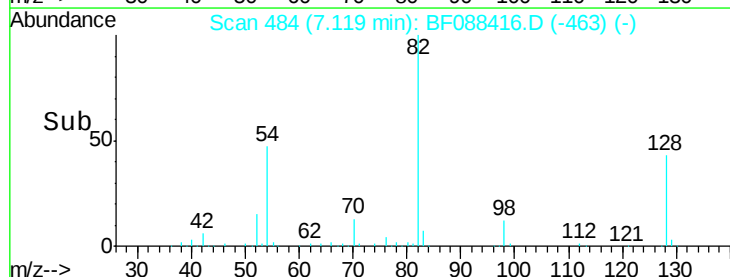
54 47.1 40.9 61.3



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



Abundance

7.12

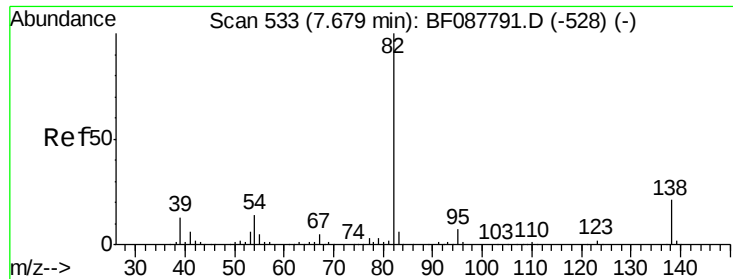
300000

200000

100000

0

Time-->



#25

Isophorone

Concen: 45.96 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.32 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

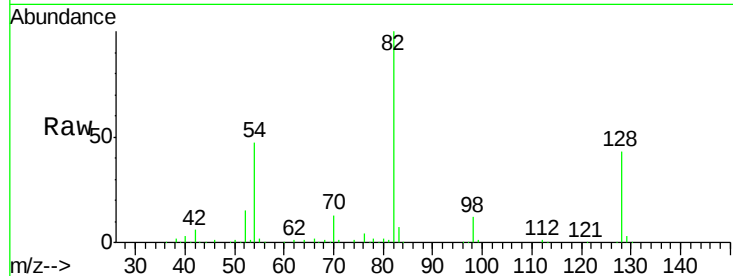
Tot Ion: 82 Resp: 458282

Ion Ratio Lower Upper

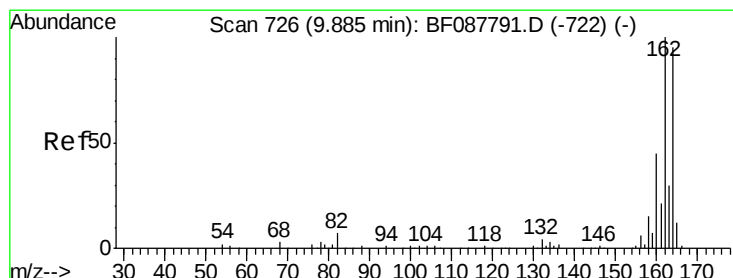
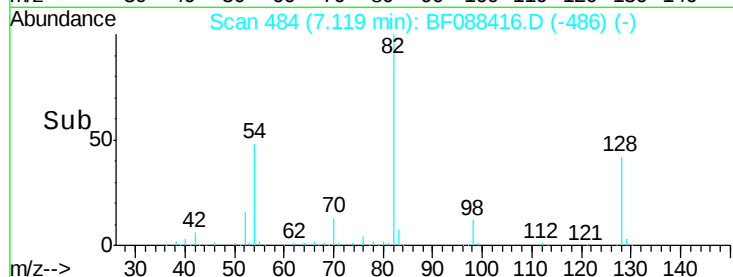
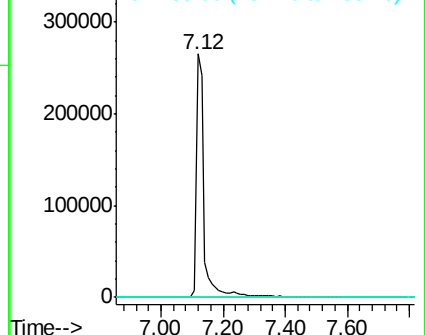
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.58 min Scan# 699

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

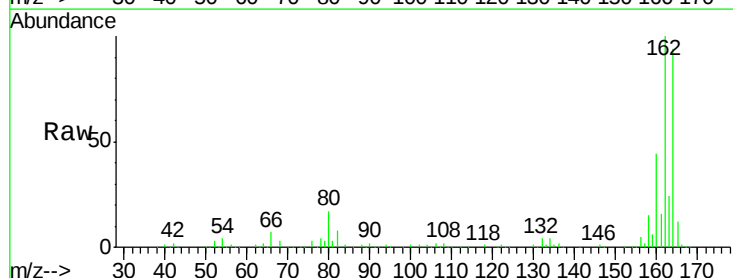
Tgt Ion: 164 Resp: 154414

Ion Ratio Lower Upper

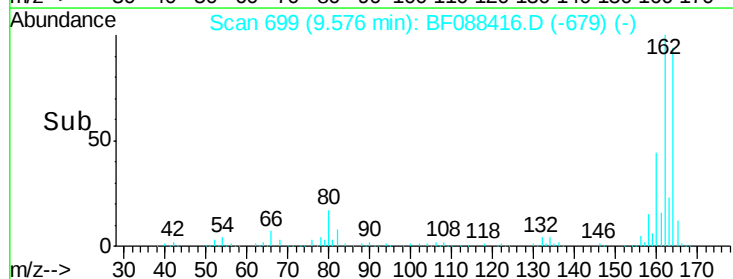
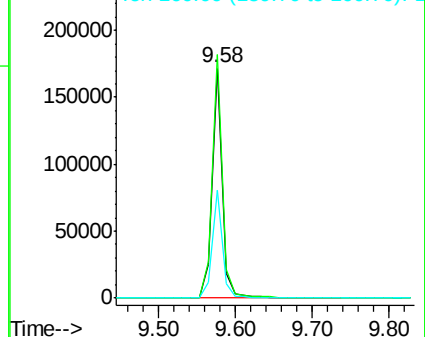
164 100

162 106.0 85.4 128.2

160 47.2 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

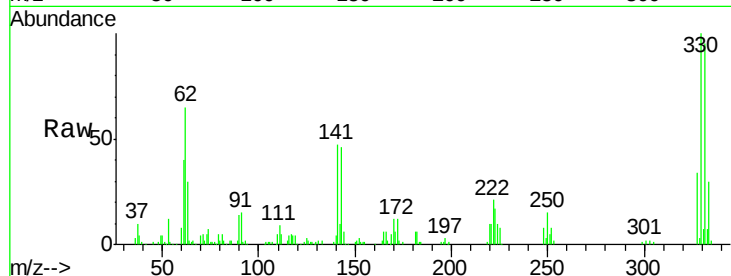




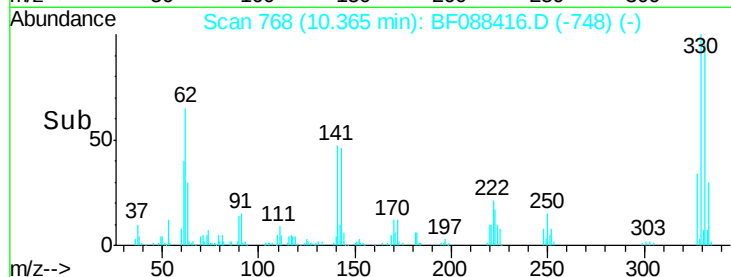
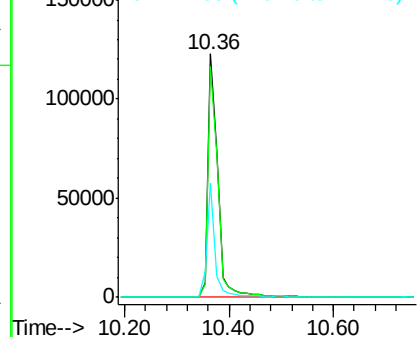
#41
 2,4,6-Tribromophenol
 Concen: 99.98 ng
 RT: 10.36 min Scan# 768
 Delta R.T. -0.07 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.8	0.0	0.0#
141	38.5	0.0	0.0#

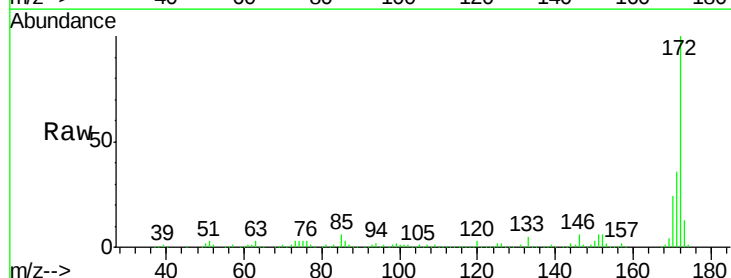


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

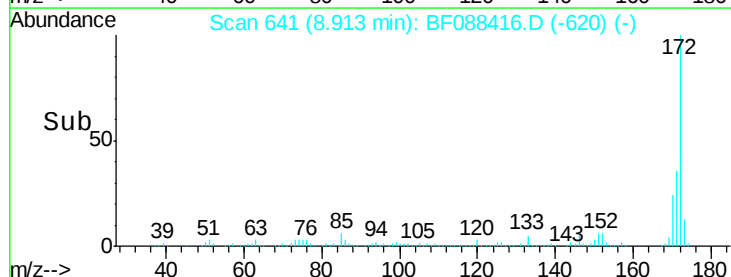
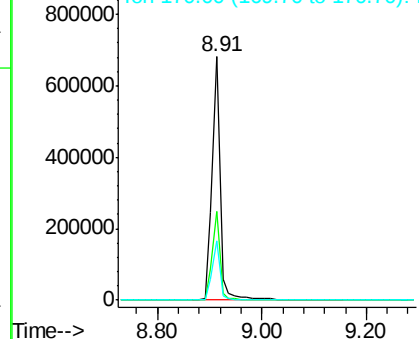


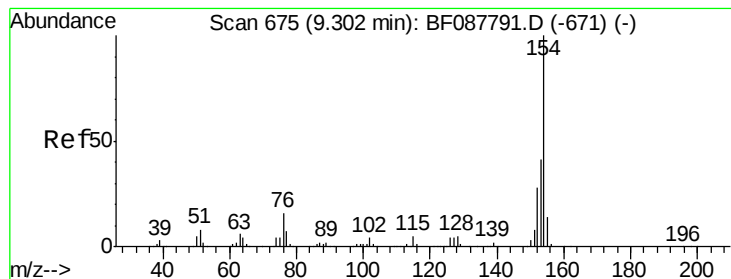
#44
 2-Fluorobiphenyl
 Concen: 74.00 ng
 RT: 8.91 min Scan# 641
 Delta R.T. -0.06 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	43.0
170	24.1	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: 9.02 min Scan# 650

Delta R.T. -0.06 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

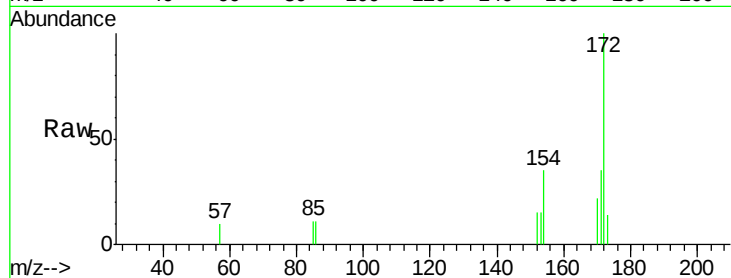
Tot Ion:154 Resp: 1086

Ion Ratio Lower Upper

154 100

153 43.6 20.6 60.6

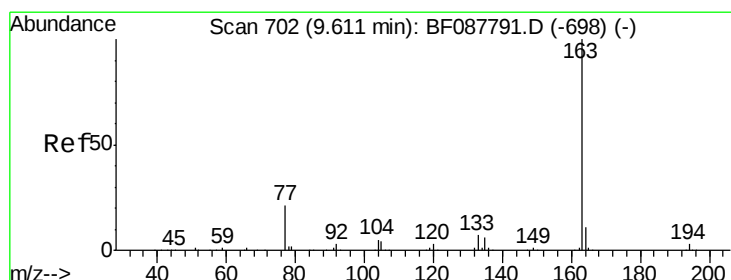
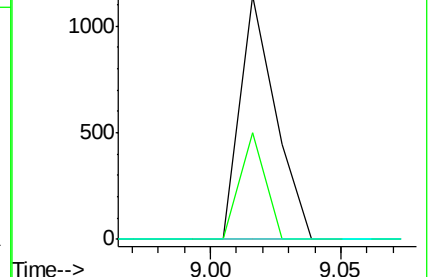
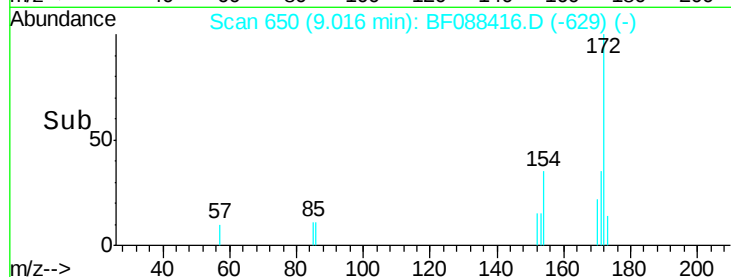
76 0.0 0.0 35.1



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: 13.44 ng

RT: 9.31 min Scan# 676

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

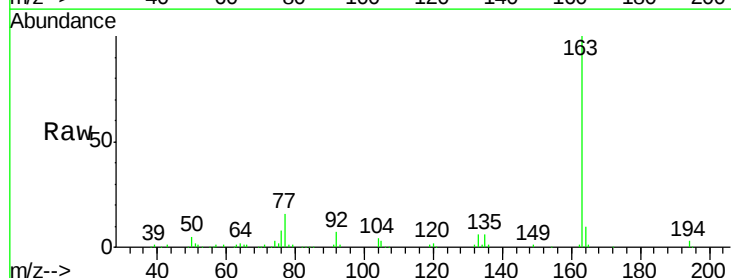
Tgt Ion:163 Resp: 150385

Ion Ratio Lower Upper

163 100

194 3.4 2.8 4.2

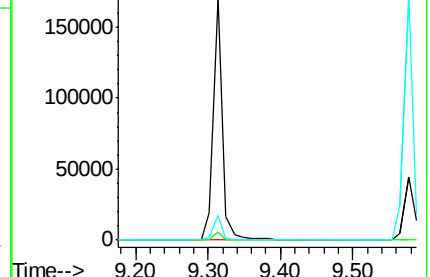
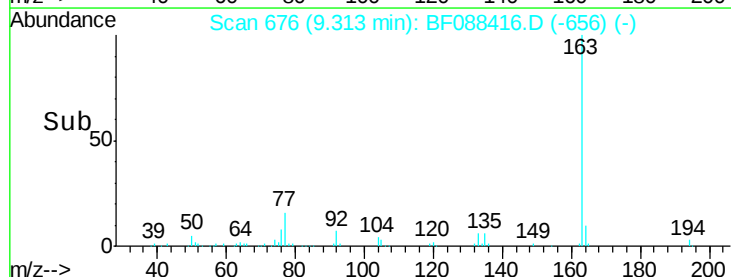
164 10.2 8.3 12.5



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

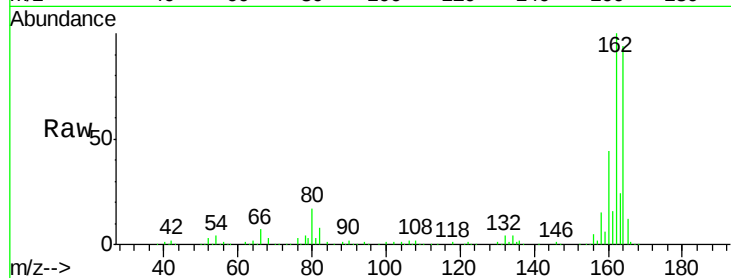




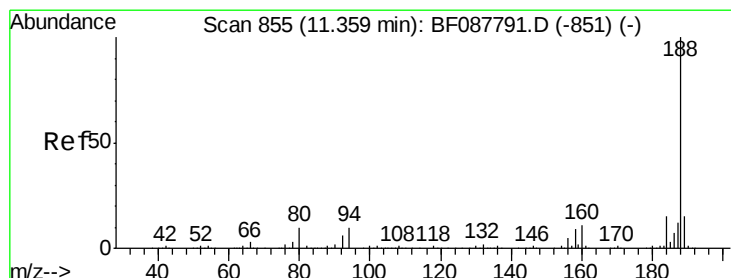
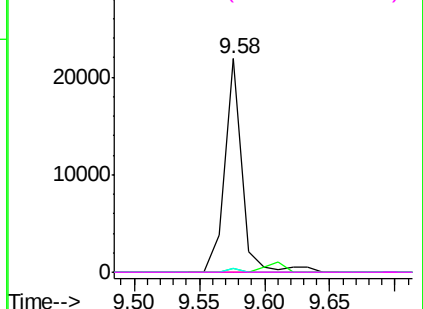
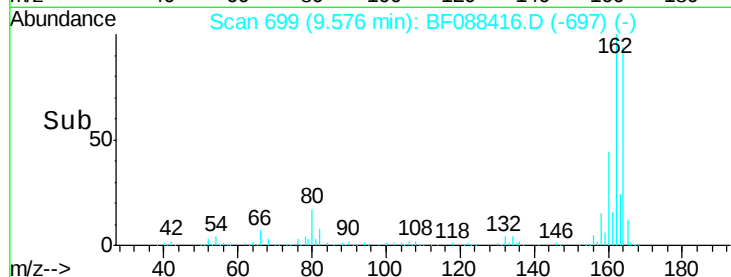
#56
 2,4-Dinitrotoluene
 Concen: 6.17 ng
 RT: 9.58 min Scan# 699
 Delta R.T. -0.27 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:165 Resp: 20298
 Ion Ratio Lower Upper
 165 100
 63 1.6 22.0 33.0#
 89 1.9 41.1 61.7#
 182 0.0 2.0 3.0#

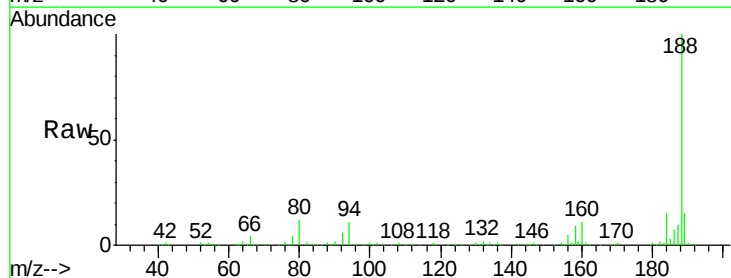


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

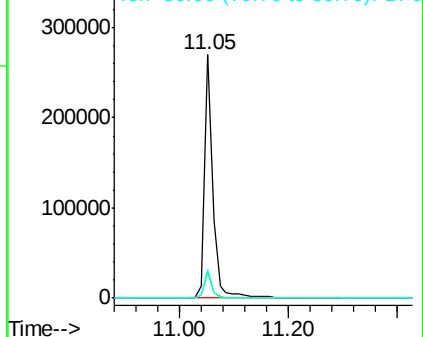
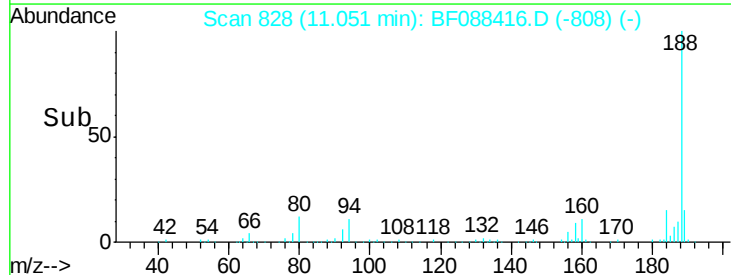


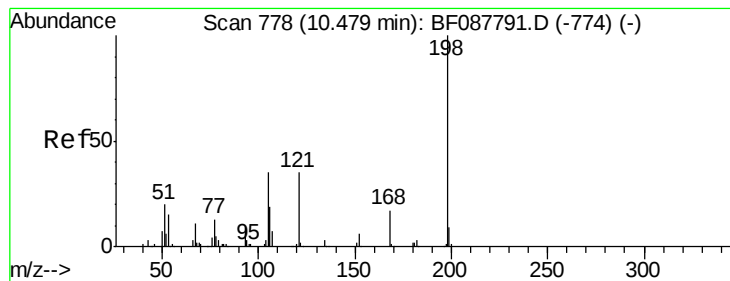
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.05 min Scan# 828
 Delta R.T. -0.07 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Tgt Ion:188 Resp: 283765
 Ion Ratio Lower Upper
 188 100
 94 10.7 9.0 13.6
 80 11.5 10.0 15.0



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.30 ng

RT: 10.36 min Scan# 768

Delta R.T. 0.10 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

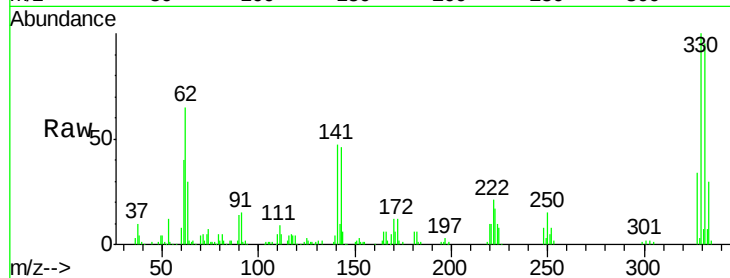
Tot Ion:198 Resp: 262

Ion Ratio Lower Upper

198 100

51 249.0 39.6 79.6#

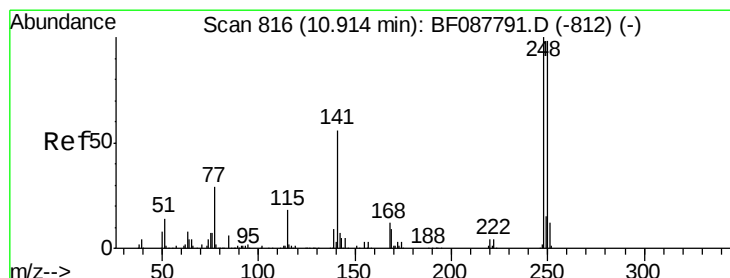
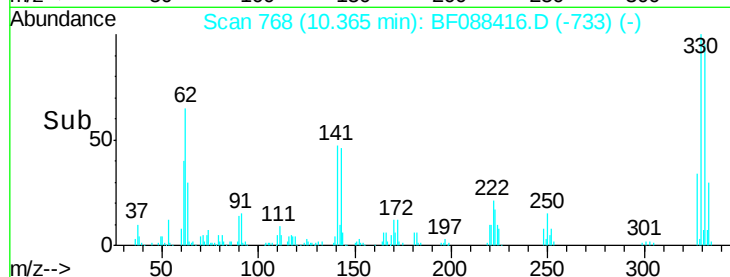
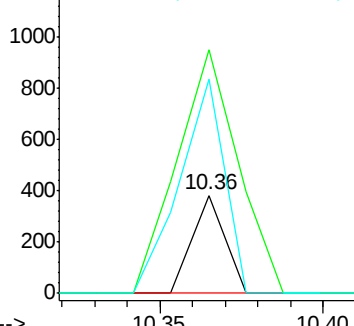
105 218.3 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.33 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.31 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

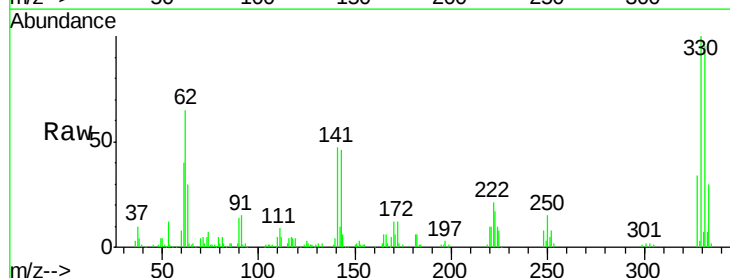
Tgt Ion:248 Resp: 10135

Ion Ratio Lower Upper

248 100

250 198.8 77.1 115.7#

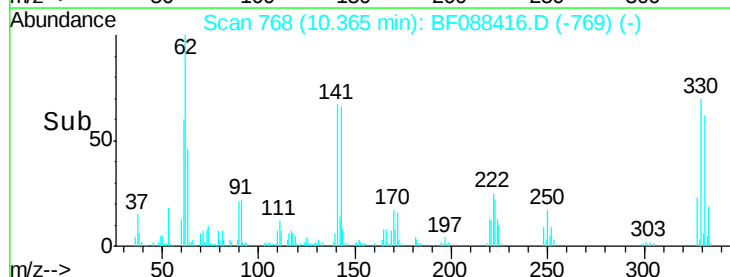
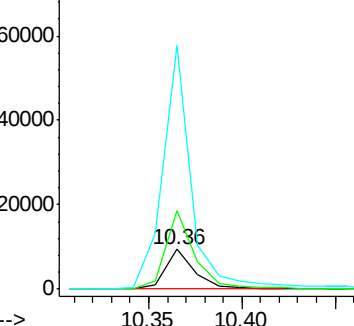
141 613.7 50.6 76.0#

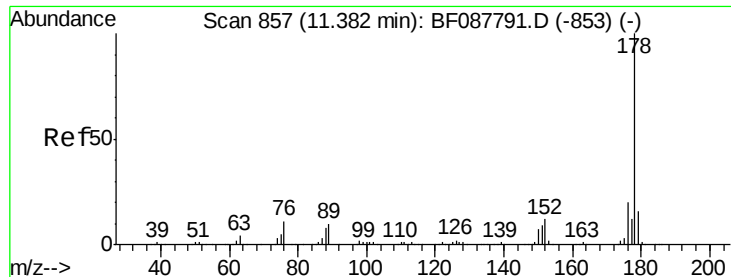


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

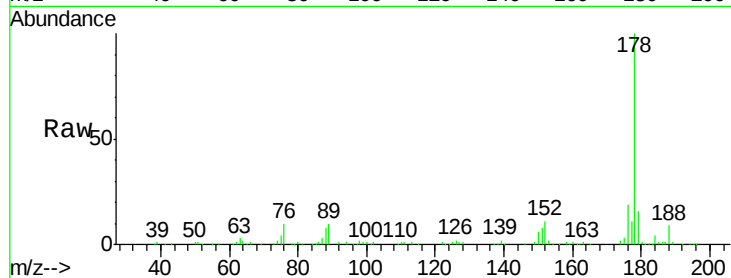




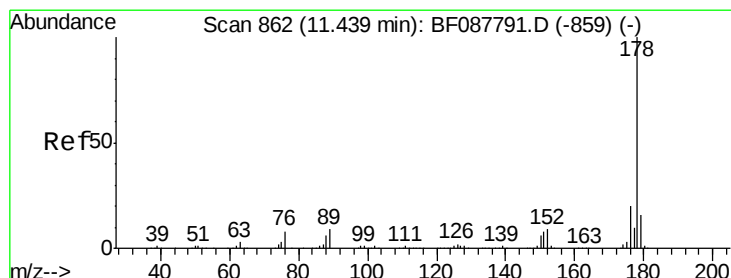
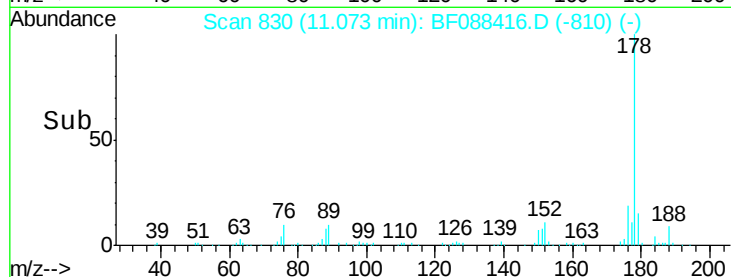
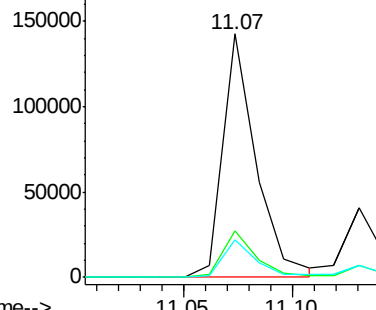
#70
Phenanthrene
Concen: 10.20 ng
RT: 11.07 min Scan# 830
Delta R.T. -0.07 min
Lab File: BF088416.D
Acq: 26 Jun 2016 14:08

Instrument :
BNA_G
ClientSampleId :

Tot Ion:178 Resp: 151865
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.6
179 15.5 13.0 19.4

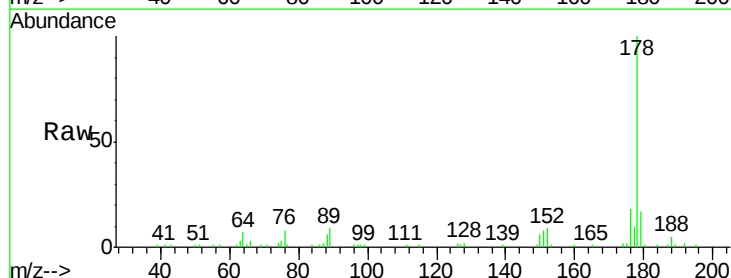


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

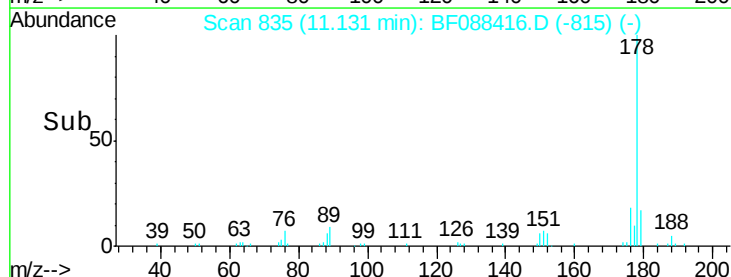
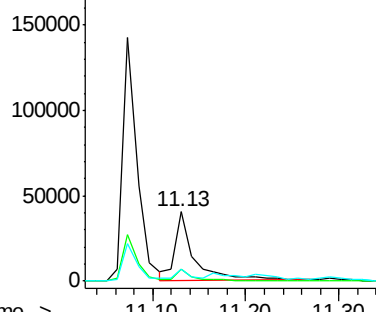


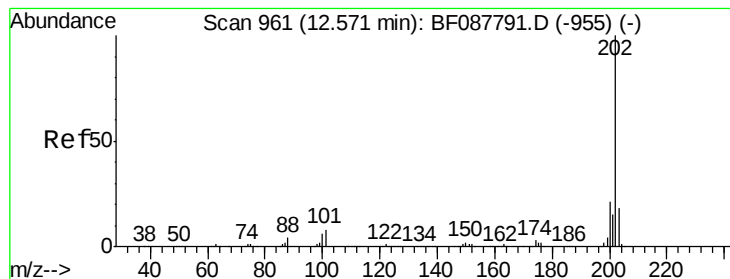
#71
Anthracene
Concen: 3.87 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.07 min
Lab File: BF088416.D
Acq: 26 Jun 2016 14:08

Tgt Ion:178 Resp: 58154
Ion Ratio Lower Upper
178 100
176 17.8 15.6 23.4
179 16.5 12.8 19.2



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: 24.15 ng

RT: 12.26 min Scan# 934

Delta R.T. -0.06 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

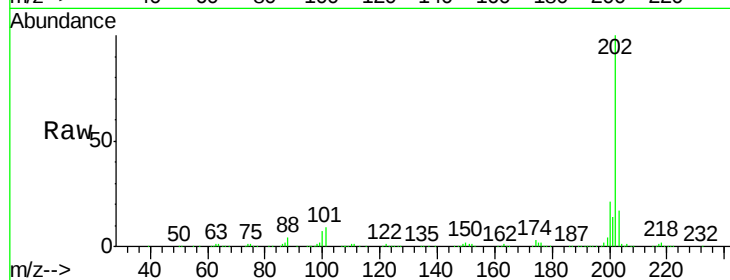
Tot Ion:202 Resp: 379542

Ion Ratio Lower Upper

202 100

101 9.5 0.0 33.1

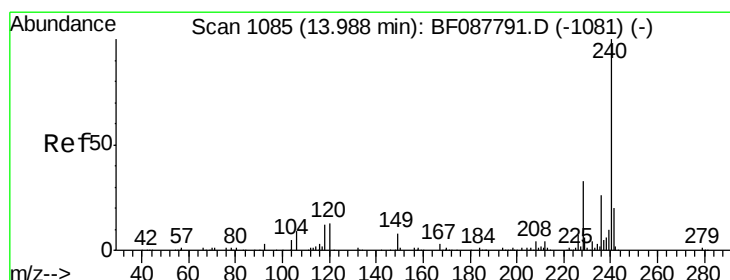
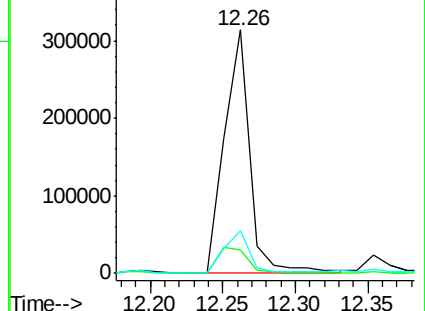
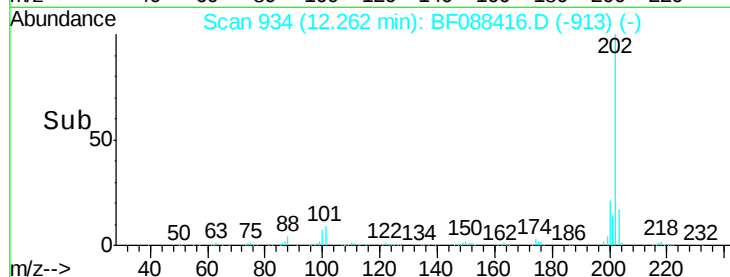
203 17.4 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

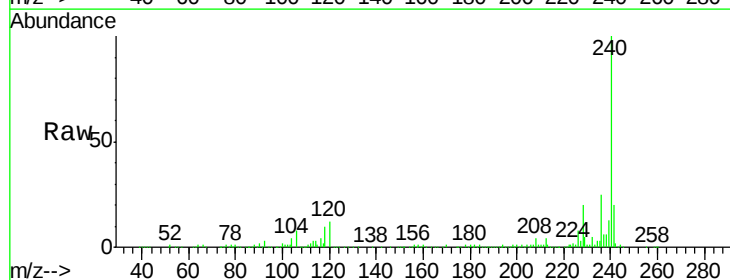
Tgt Ion:240 Resp: 236077

Ion Ratio Lower Upper

240 100

120 11.9 6.8 10.2#

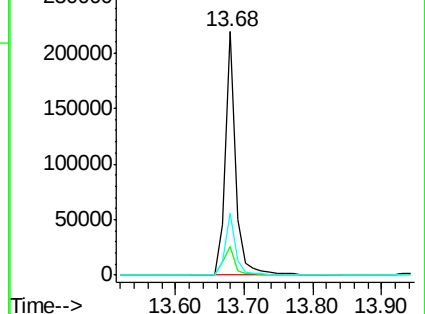
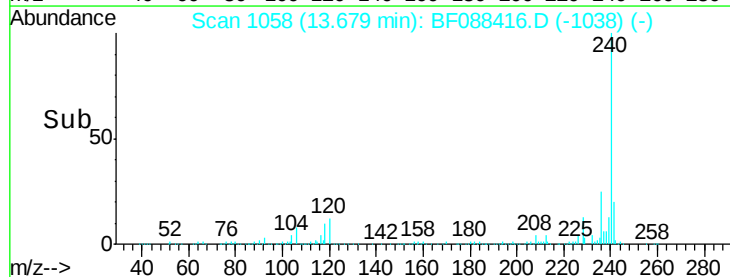
236 25.4 20.2 30.2

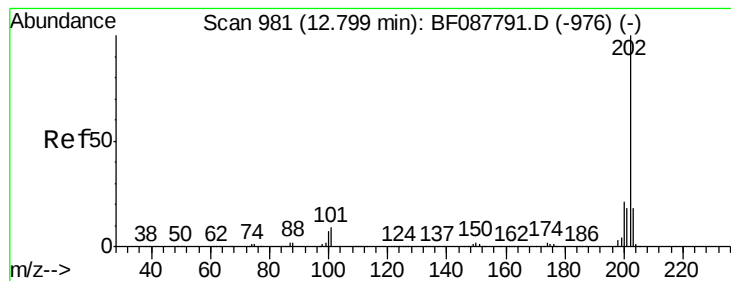


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 18.79 ng

RT: 12.48 min Scan# 953

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

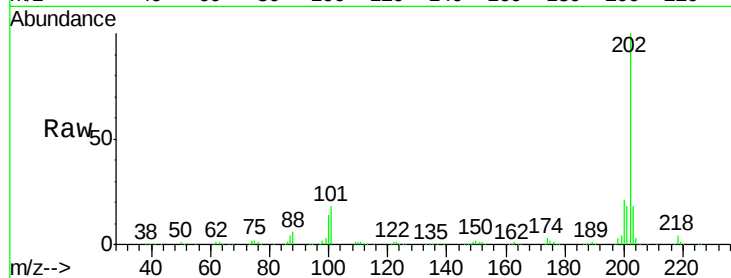
Tot Ion:202 Resp: 329244

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

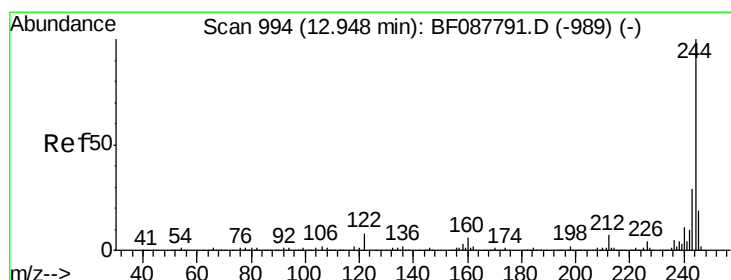
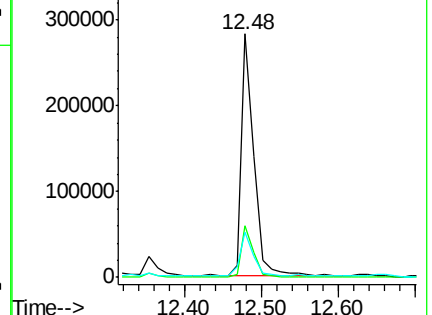
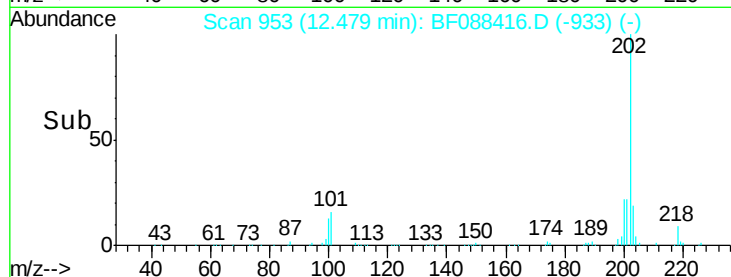
203 18.5 14.5 21.7



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: 41.17 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

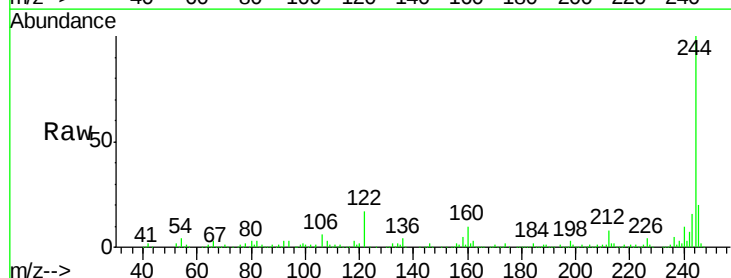
Tgt Ion:244 Resp: 427158

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

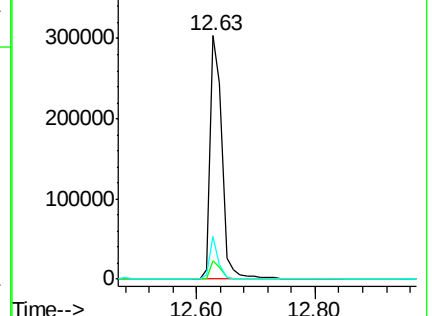
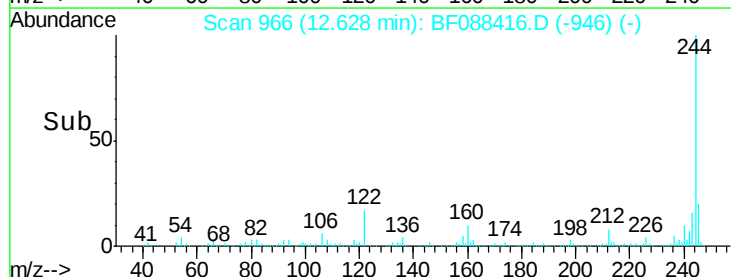
122 17.3 11.2 16.8#

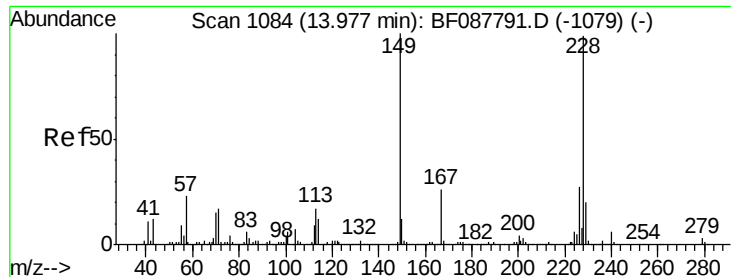


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.33 ng

RT: 13.67 min Scan# 1057

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

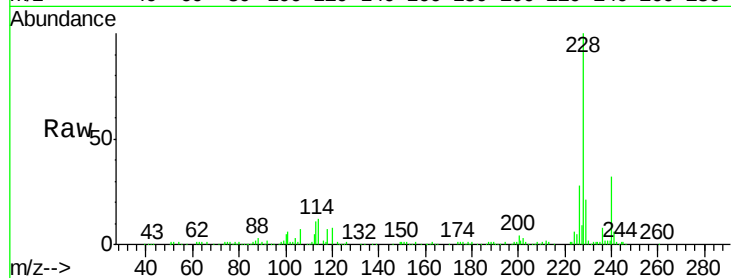
Tot Ion:228 Resp: 165906

Ion Ratio Lower Upper

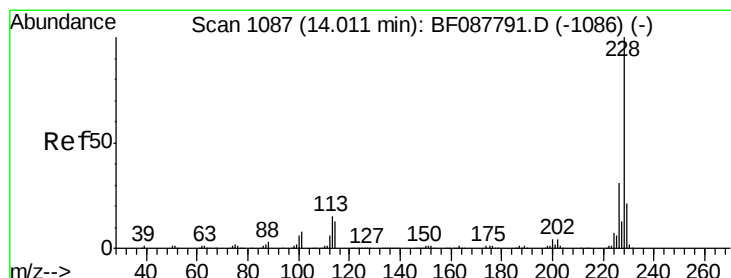
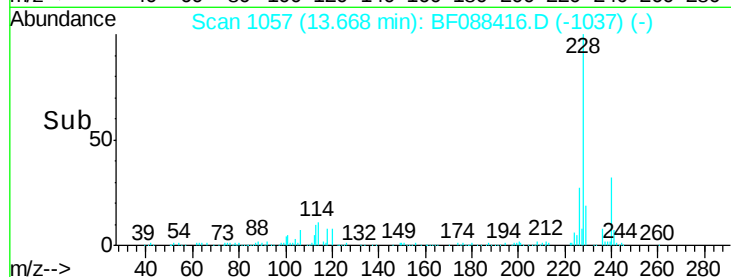
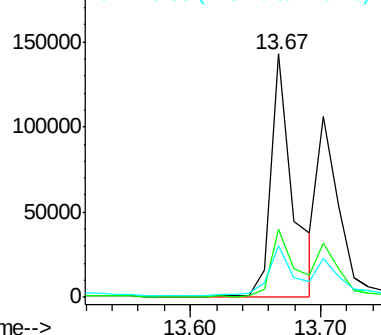
228 100

226 28.1 22.3 33.5

229 21.4 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: 9.83 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.07 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

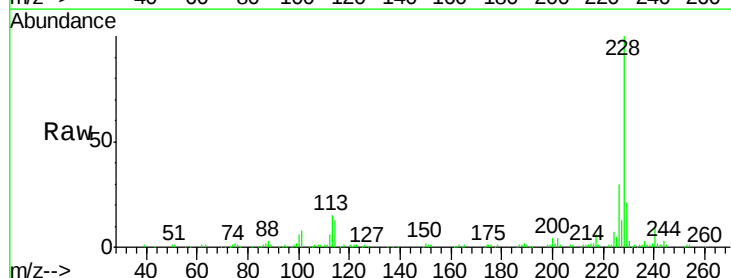
Tgt Ion:228 Resp: 124439

Ion Ratio Lower Upper

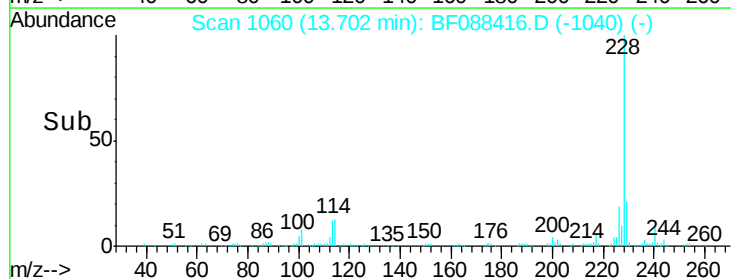
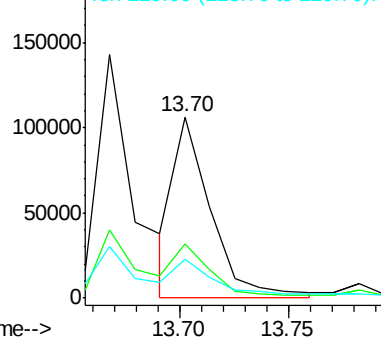
228 100

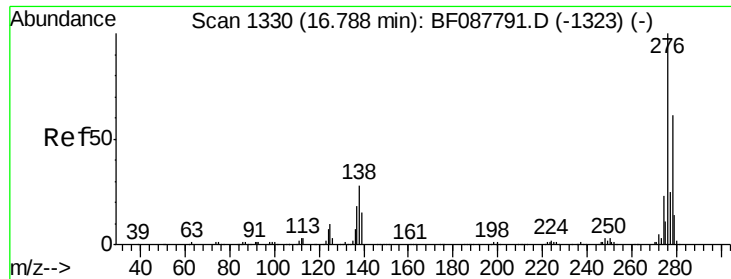
226 29.8 25.4 38.2

229 21.3 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

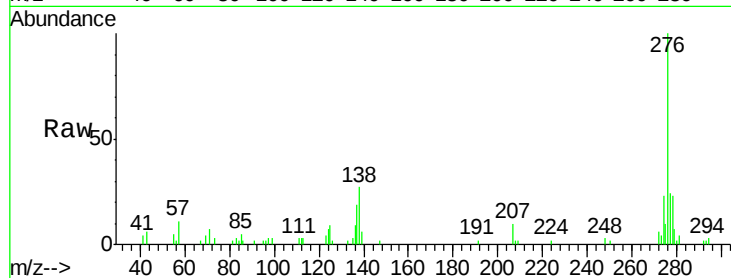




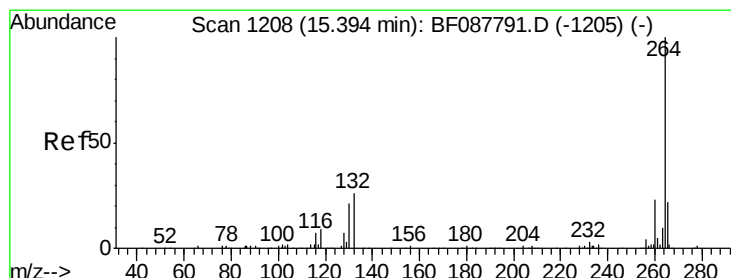
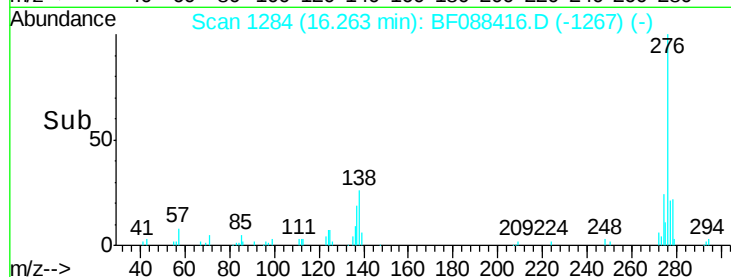
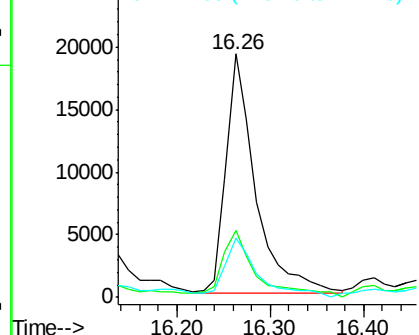
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.61 ng
 RT: 16.26 min Scan# 1284
 Delta R.T. -0.10 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.1	0.0	0.0#
277	28.2	0.0	0.0#

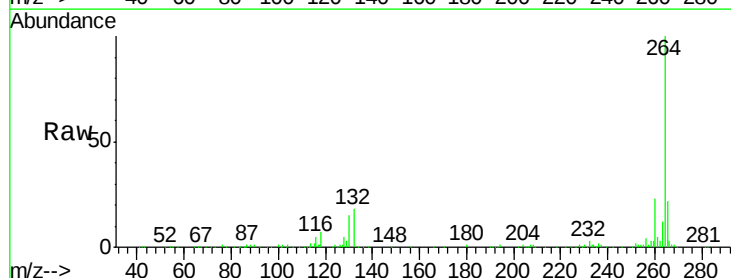


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

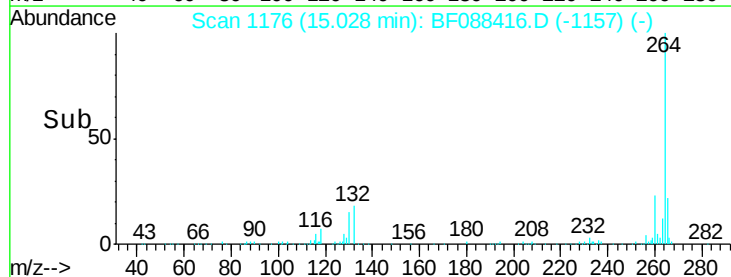
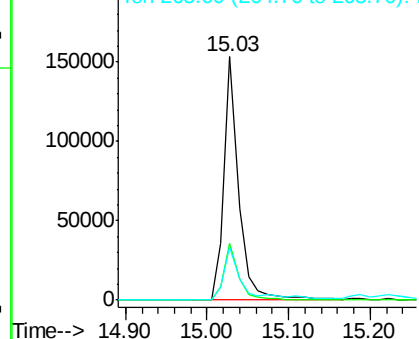


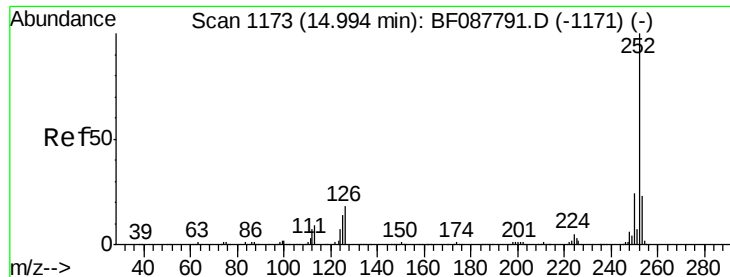
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.03 min Scan# 1176
 Delta R.T. -0.08 min
 Lab File: BF088416.D
 Acq: 26 Jun 2016 14:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.8	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: 12.50 ng

RT: 14.67 min Scan# 1145

Delta R.T. -0.07 min

Lab File: BF088416.D

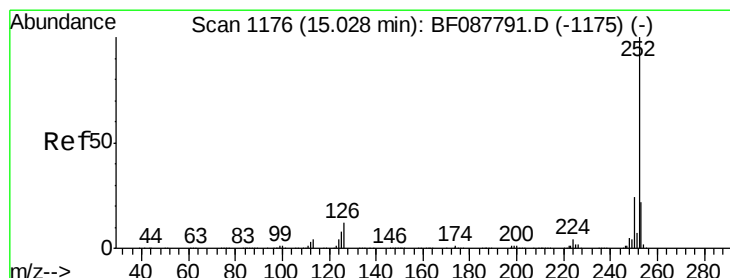
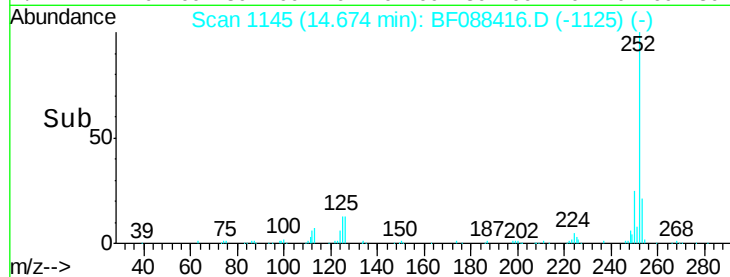
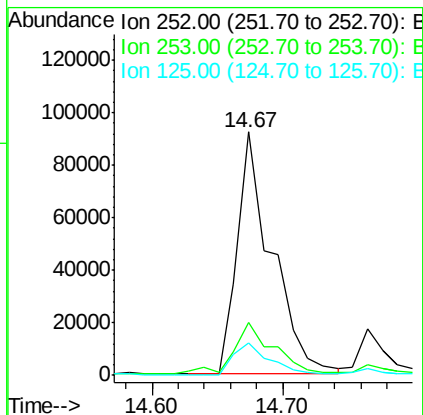
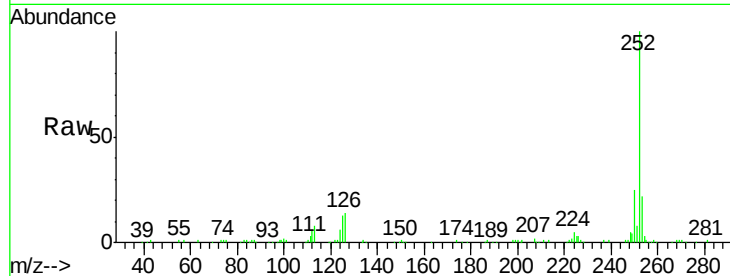
Acq: 26 Jun 2016 14:08

Instrument :

BNA_G

ClientSampleId :

Tot Ion:252	Resp:	168867
Ion Ratio	Lower	Upper
252	100	
253	22.0	17.4 26.2
125	13.4	7.1 10.7#



#88

Benzo(k)fluoranthene

Concen: 16.57 ng

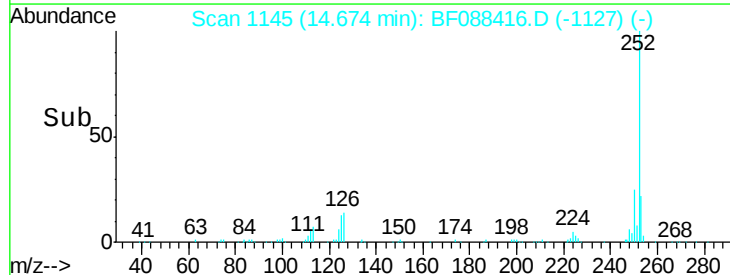
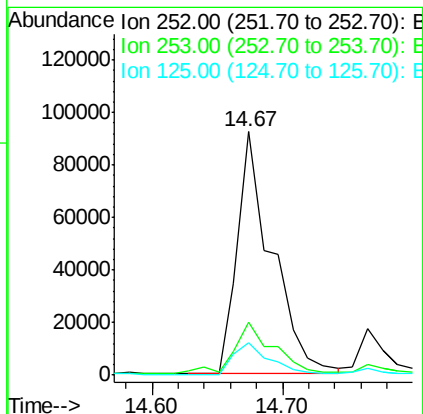
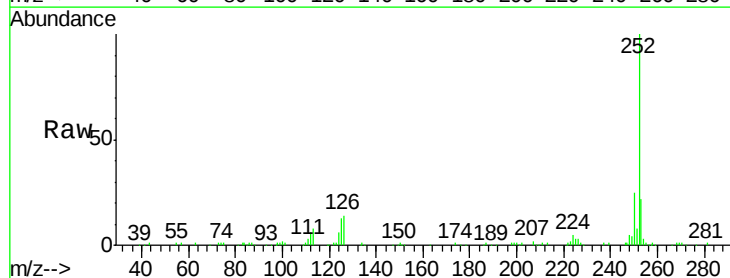
RT: 14.67 min Scan# 1145

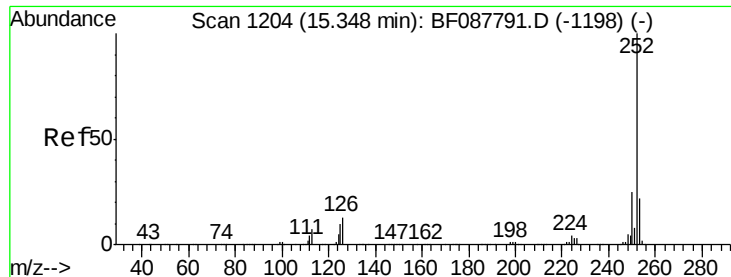
Delta R.T. -0.09 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Tgt Ion:252	Resp:	168867
Ion Ratio	Lower	Upper
252	100	
253	22.0	18.0 27.0
125	13.4	11.2 16.8





#89

Benzo(a)pyrene

Concen: 4.79 ng

RT: 14.93 min Scan# 1167

Delta R.T. -0.13 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

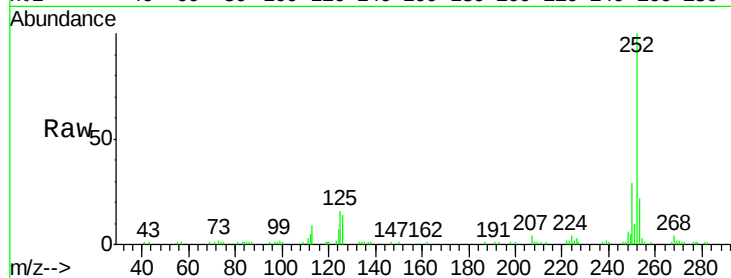
Instrument :

BNA_G

ClientSampleId :

Tot Ion:252 Resp: 52347

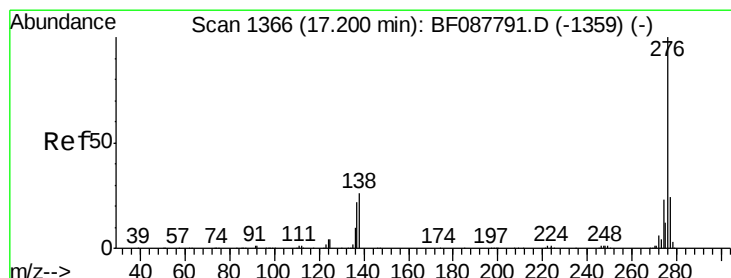
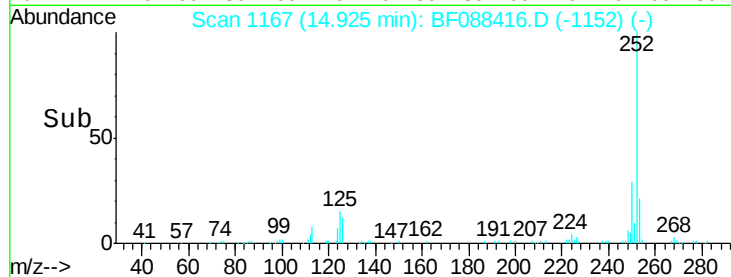
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.9	26.9
125	16.2	12.5	18.7



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(g,h,i)perylene

Concen: 3.37 ng

RT: 16.63 min Scan# 1316

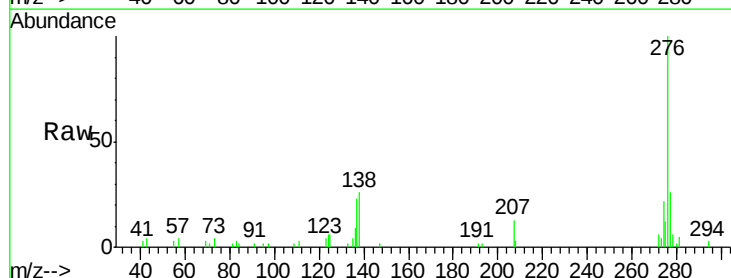
Delta R.T. -0.11 min

Lab File: BF088416.D

Acq: 26 Jun 2016 14:08

Tgt Ion:276 Resp: 35209

Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.9	28.3
138	26.4	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

