

Data Path : U:\HPCHEM1\BNA G\DATA\BG042116\
 Data File : BG021788.D
 Acq On : 20 Apr 2016 17:03
 Operator : UM/SJ
 Sample : H2413-03 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Apr 21 01:07:47 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

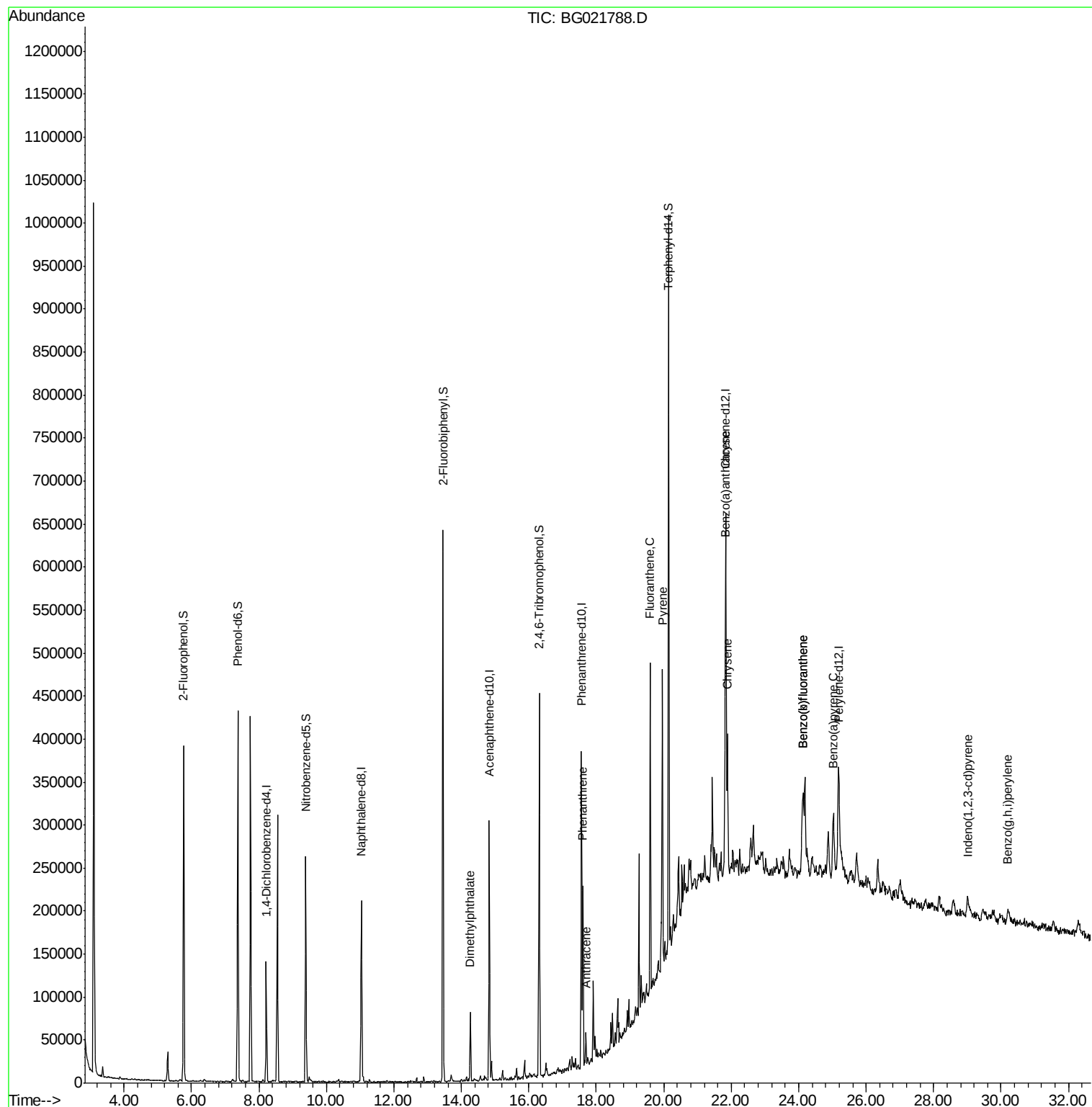
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.22	152	39764	20.00	ng	0.00
21) Naphthalene-d8	11.03	136	180809	20.00	ng	0.00
38) Acenaphthene-d10	14.83	164	103471	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	213129	20.00	ng	0.00
75) Chrysene-d12	21.84	240	234028	20.00	ng	0.00
86) Perylene-d12	25.18	264	180863	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.77	112	180786	75.71	ng	0.00
7) Phenol-d6	7.37	99	264887	74.26	ng	0.02
23) Nitrobenzene-d5	9.38	82	165460	47.04	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	82887	74.33	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	336697	47.68	ng	0.00
78) Terphenyl-d14	20.15	244	375638	40.05	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	14.26	163	53055	5.93	ng	99
70) Phenanthrene	17.60	178	131402	11.19	ng	99
71) Anthracene	17.69	178	26201	2.20	ng	96
74) Fluoranthene	19.60	202	240282	17.13	ng	100
77) Pyrene	19.96	202	224449	16.63	ng	98
80) Benzo(a)anthracene	21.82	228	123966	9.20	ng	97
82) Chrysene	21.89	228	125395	9.69	ng	97
85) Indeno(1,2,3-cd)pyrene	29.01	276	41586	2.70	ng	# 95
87) Benzo(b)fluoranthene	24.12	252	146265	13.94	ng	# 91
88) Benzo(k)fluoranthene	24.12	252	146265	14.25	ng	# 92
89) Benzo(a)pyrene	25.03	252	96885	9.53	ng	94
91) Benzo(a,h,i)perylene	30.20	276	40301	4.03	ng	# 89

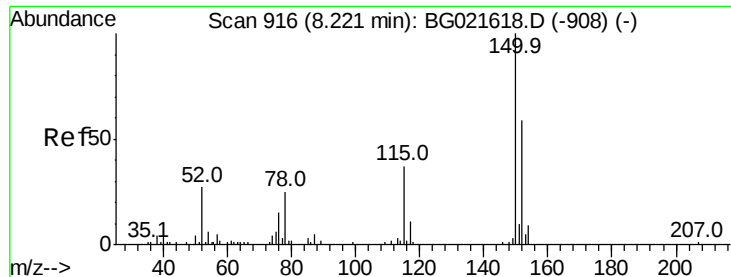
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.22 min Scan# 916

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampled :

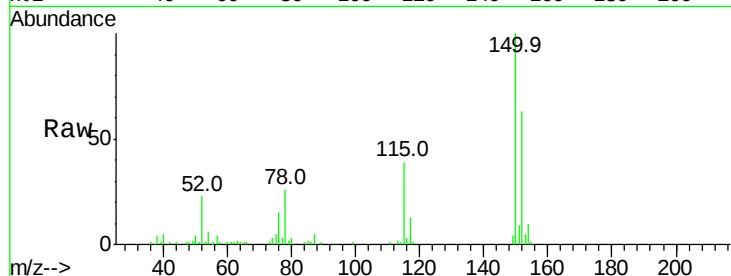
Tot Ion:152 Resp: 39764

Ion Ratio Lower Upper

152 100

150 157.9 130.1 195.1

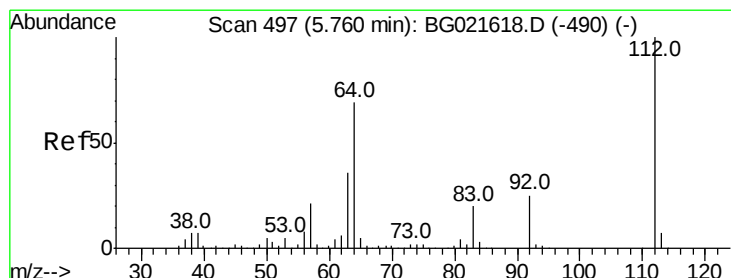
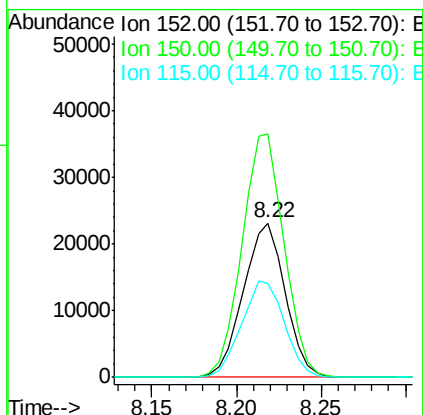
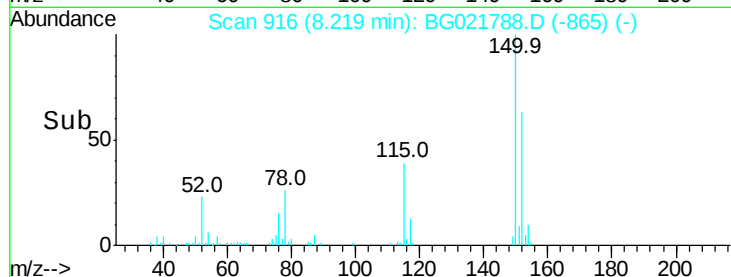
115 61.2 62.2 93.2#



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: 75.71 ng

RT: 5.77 min Scan# 499

Delta R.T. 0.01 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

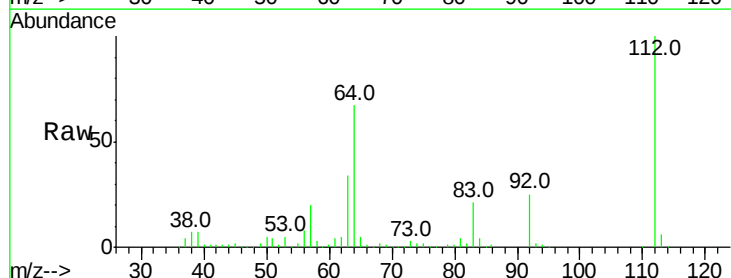
Tgt Ion:112 Resp: 180786

Ion Ratio Lower Upper

112 100

64 66.8 51.1 76.7

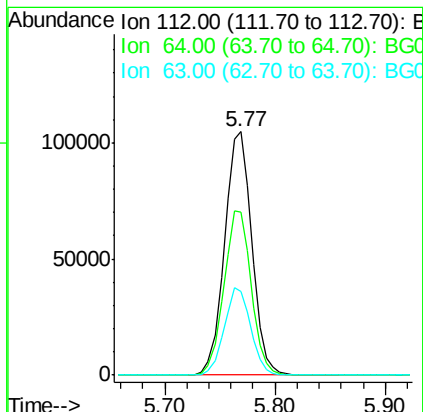
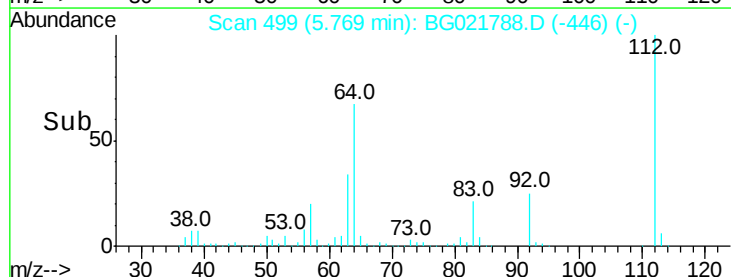
63 34.5 24.6 37.0

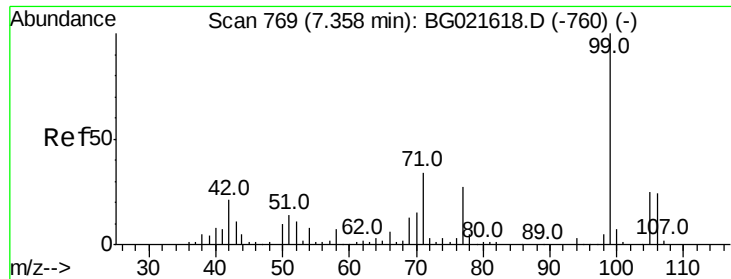


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 74.26 ng

RT: 7.37 min Scan# 772

Delta R.T. 0.02 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

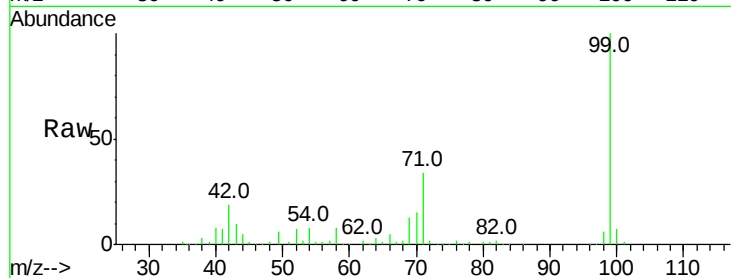
Tot Ion: 99 Resp: 264887

Ion Ratio Lower Upper

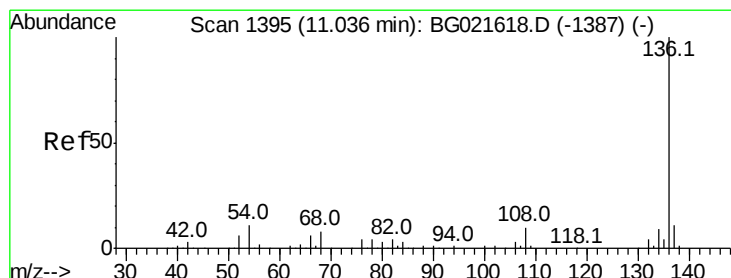
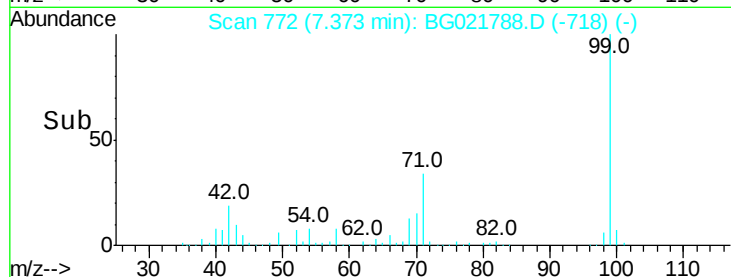
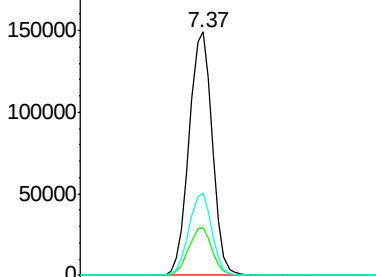
99 100

42 19.4 16.4 24.6

71 33.7 25.0 37.4



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.03 min Scan# 1395

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Tgt Ion: 136 Resp: 180809

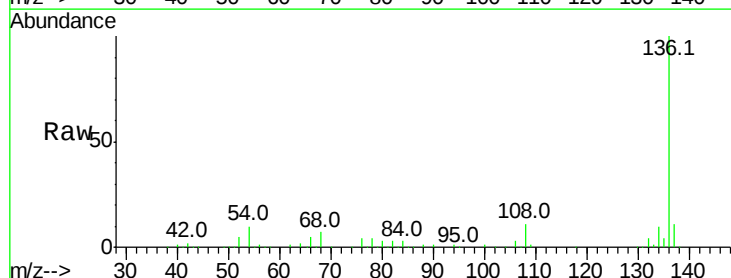
Ion Ratio Lower Upper

136 100

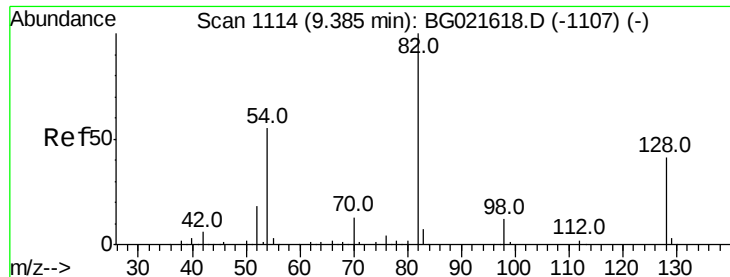
137 11.3 9.0 13.4

54 10.2 9.6 14.4

68 7.1 6.4 9.6



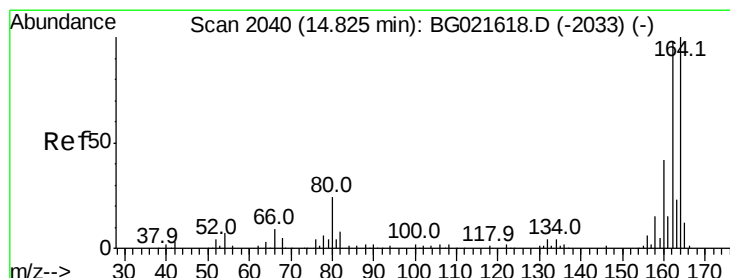
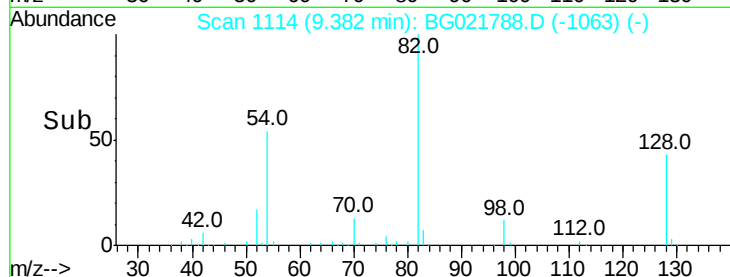
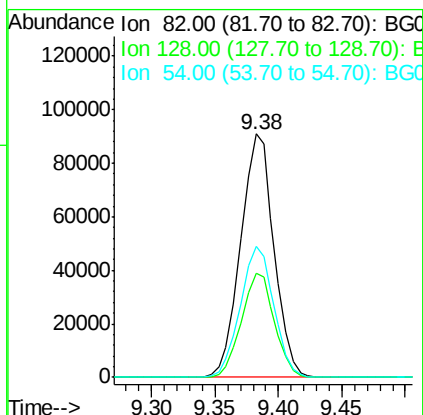
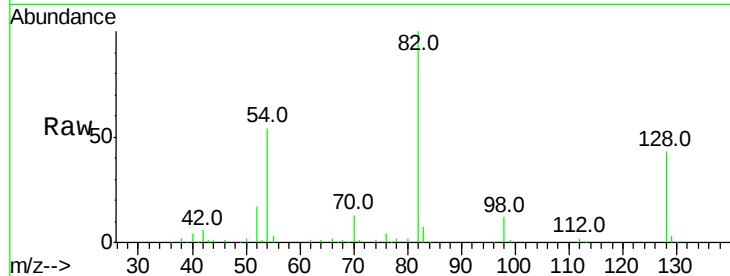
Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC



#23
 Nitrobenzene-d5
 Concen: 47.04 ng
 RT: 9.38 min Scan# 1114
 Delta R.T. -0.00 min
 Lab File: BG021788.D
 Acq: 20 Apr 2016 17:03

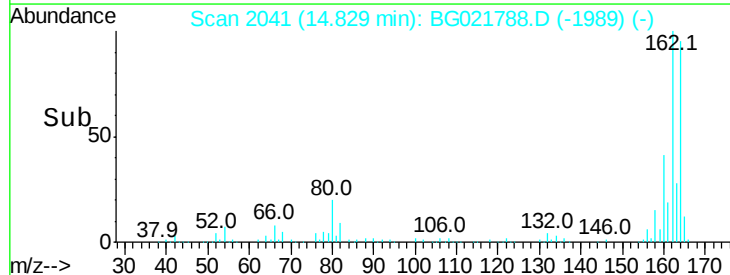
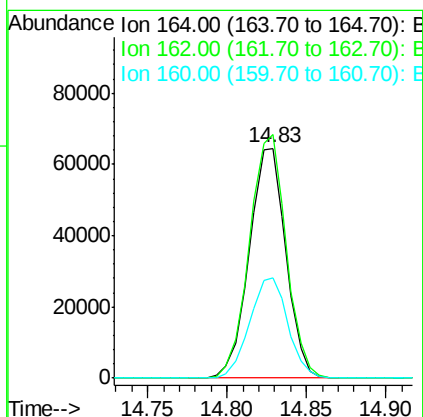
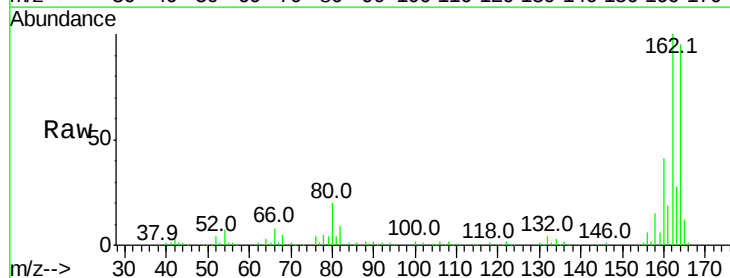
Instrument :
 BNA_G
 ClientSampled :

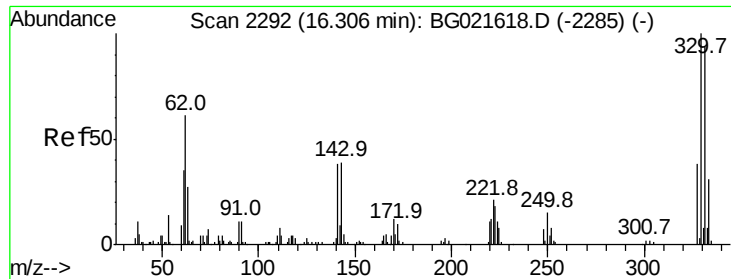
Tot Ion: 82 Resp: 165460
 Ion Ratio Lower Upper
 82 100
 128 42.6 33.4 50.0
 54 54.0 46.1 69.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.83 min Scan# 2041
 Delta R.T. 0.00 min
 Lab File: BG021788.D
 Acq: 20 Apr 2016 17:03

Tgt Ion:164 Resp: 103471
 Ion Ratio Lower Upper
 164 100
 162 105.8 78.0 117.0
 160 43.5 32.9 49.3

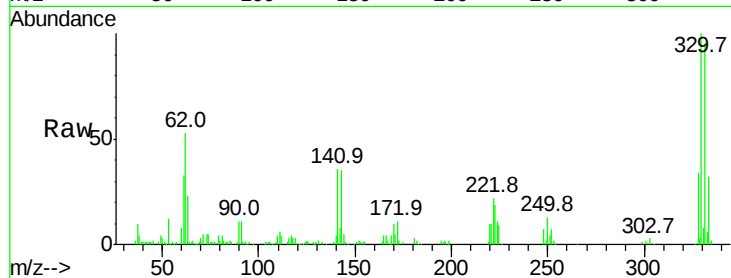




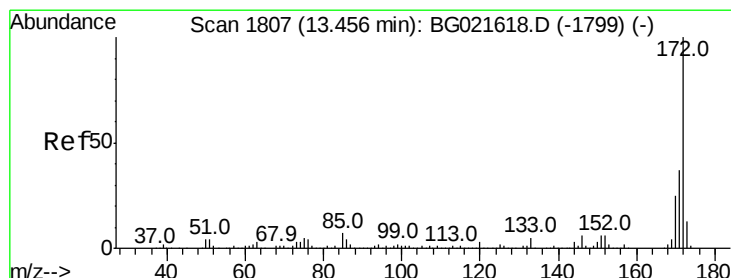
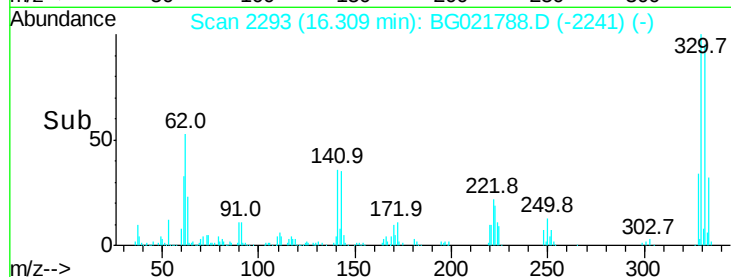
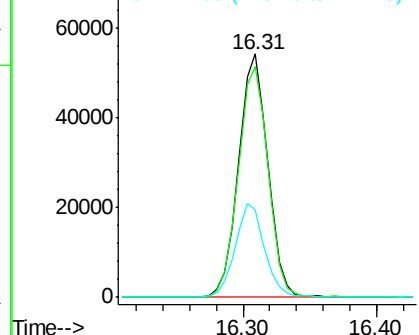
#41
 2,4,6-Tribromophenol
 Concen: 74.33 ng
 RT: 16.31 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: BG021788.D
 Acq: 20 Apr 2016 17:03

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.0	117.0
141	38.7	33.8	50.8

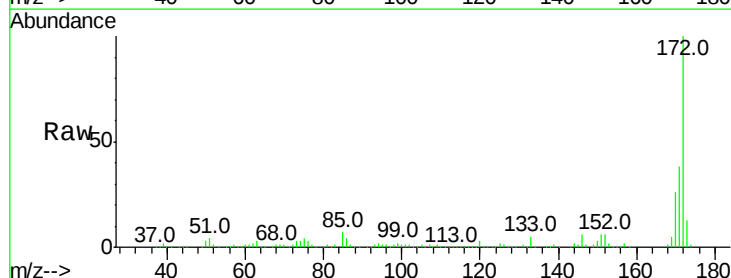


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

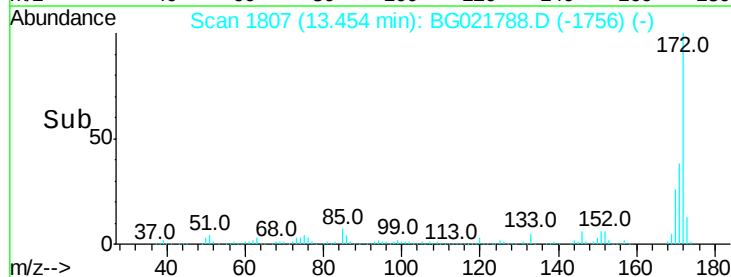
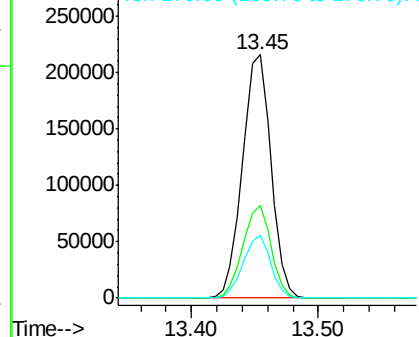


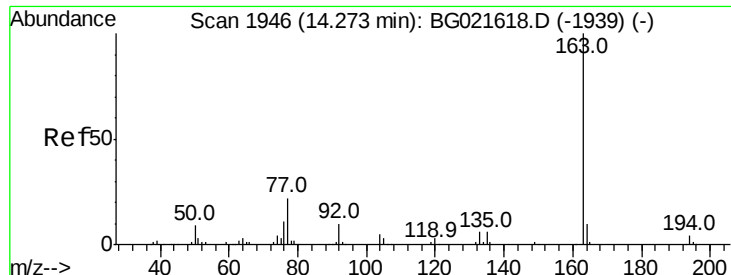
#44
 2-Fluorobiphenyl
 Concen: 47.68 ng
 RT: 13.45 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: BG021788.D
 Acq: 20 Apr 2016 17:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.2	27.8	41.6
170	25.7	19.6	29.4



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





#49

Dimethylphthalate

Concen: 5.93 ng

RT: 14.26 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampled :

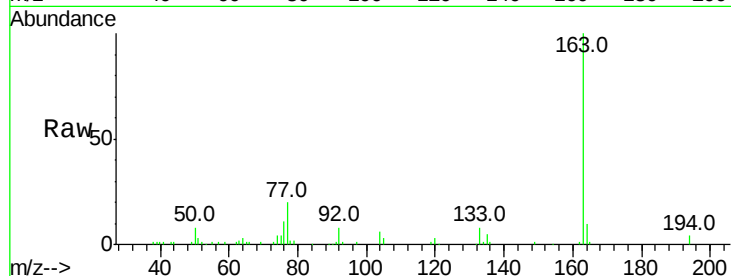
Tot Ion:163 Resp: 53055

Ion Ratio Lower Upper

163 100

194 4.5 3.0 4.6

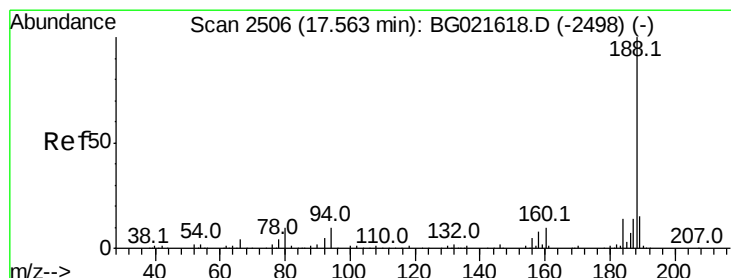
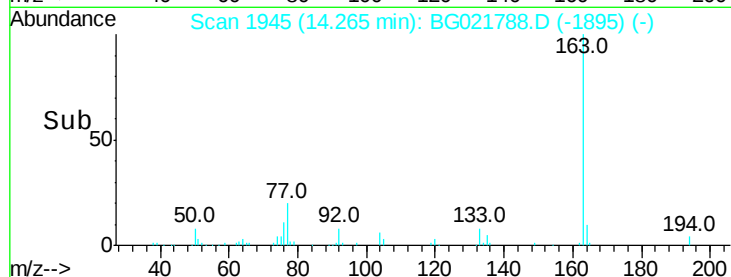
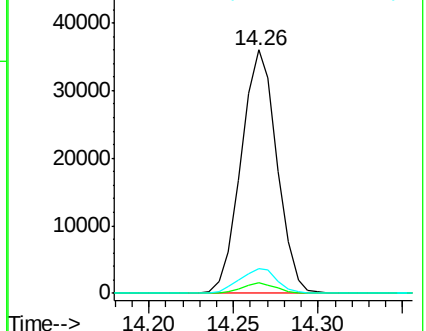
164 10.2 8.1 12.1



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.56 min Scan# 2506

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

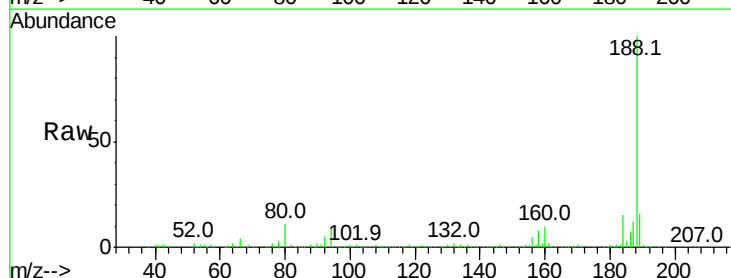
Tgt Ion:188 Resp: 213129

Ion Ratio Lower Upper

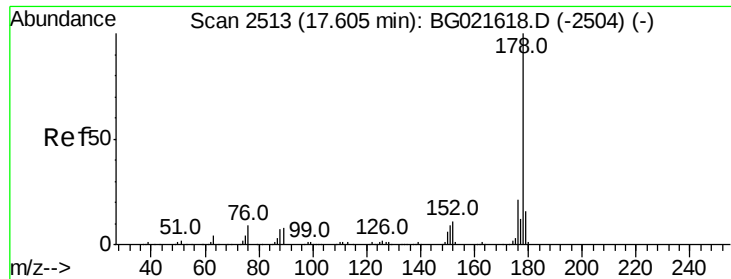
188 100

94 9.4 7.5 11.3

80 10.5 8.6 13.0



Abundance Ion 188.00 (187.70 to 188.70): E



#70

Phenanthrene

Concen: 11.19 ng

RT: 17.60 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampled :

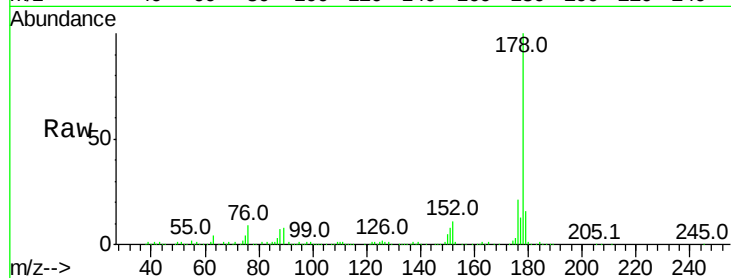
Tot Ion:178 Resp: 131402

Ion Ratio Lower Upper

178 100

176 20.5 16.2 24.4

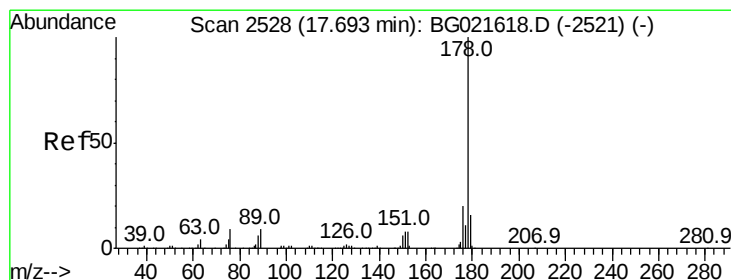
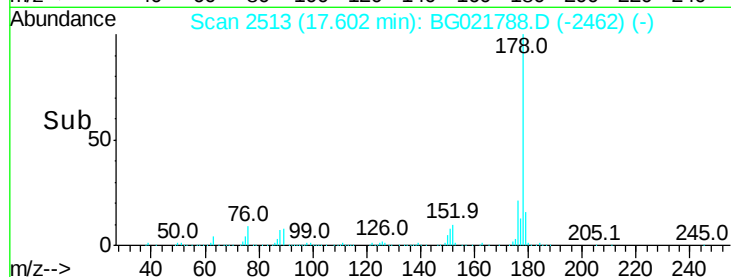
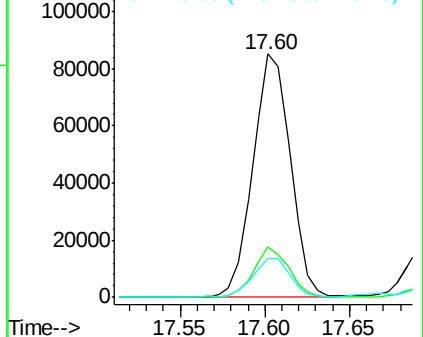
179 16.0 12.0 18.0



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: 2.20 ng

RT: 17.69 min Scan# 2528

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

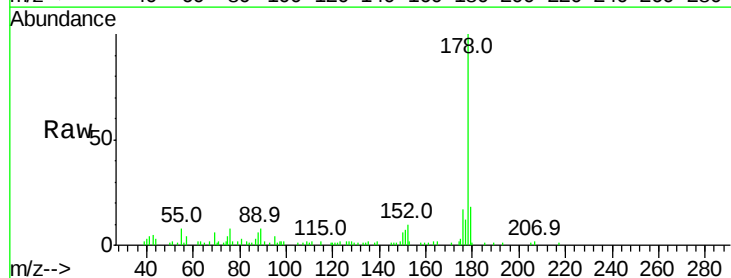
Tgt Ion:178 Resp: 26201

Ion Ratio Lower Upper

178 100

176 17.2 15.0 22.4

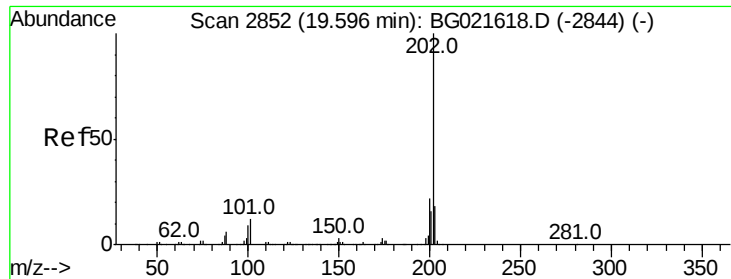
179 17.6 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion



#74

Fluoranthene

Concen: 17.13 ng

RT: 19.60 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BG021788.D

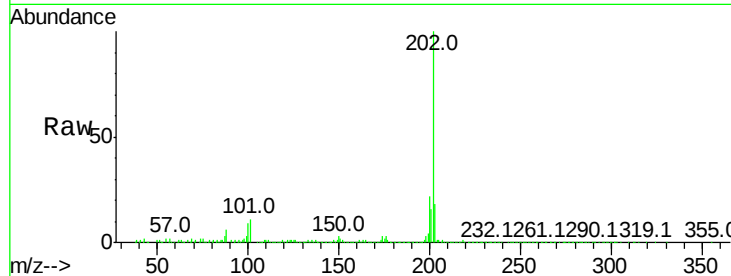
Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

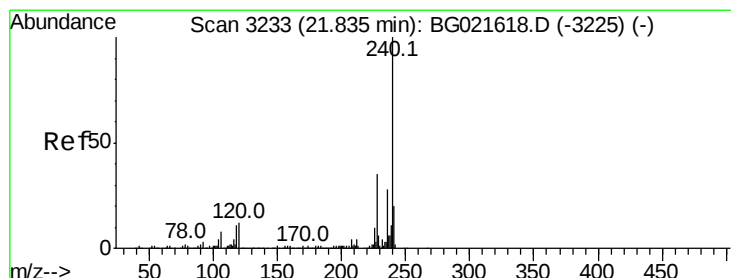
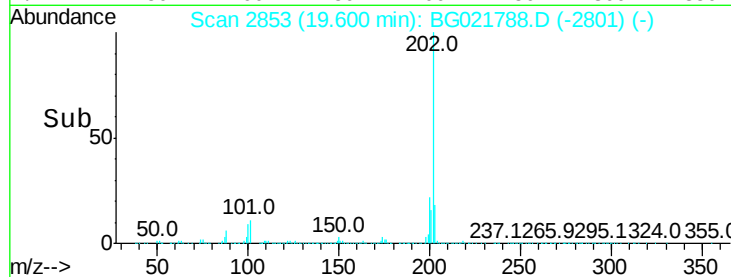
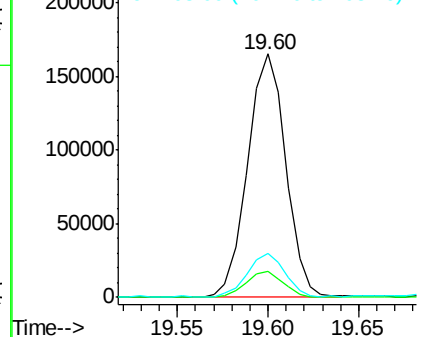
Tot Ion:	202	Resp:	240282
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.0
203	18.1	0.0	37.9



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

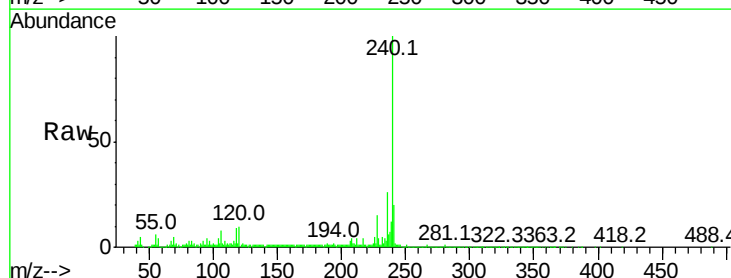
RT: 21.84 min Scan# 3234

Delta R.T. 0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

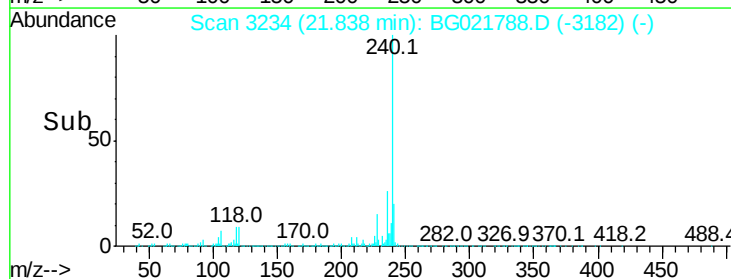
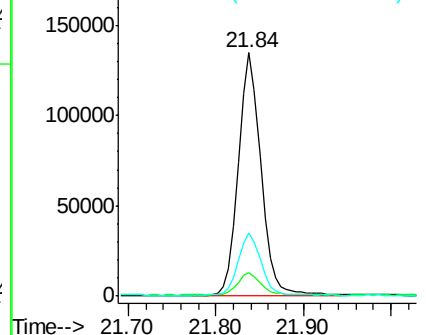
Tgt Ion:	240	Resp:	234028
Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.4	12.6
236	26.2	19.6	29.4

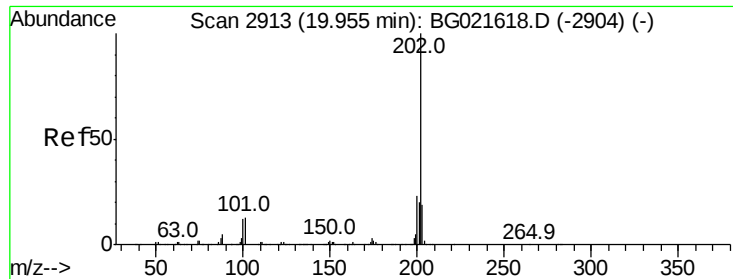


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 16.63 ng

RT: 19.96 min Scan# 2914

Delta R.T. 0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

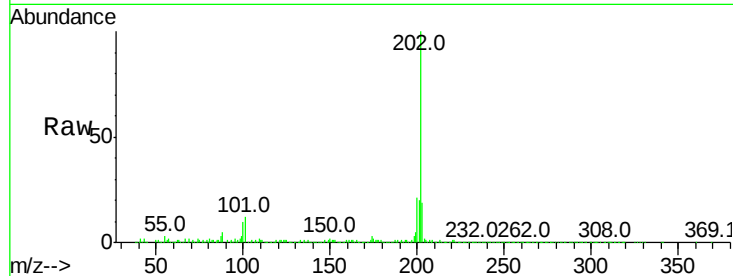
Tot Ion:202 Resp: 224449

Ion Ratio Lower Upper

202 100

200 21.3 18.2 27.2

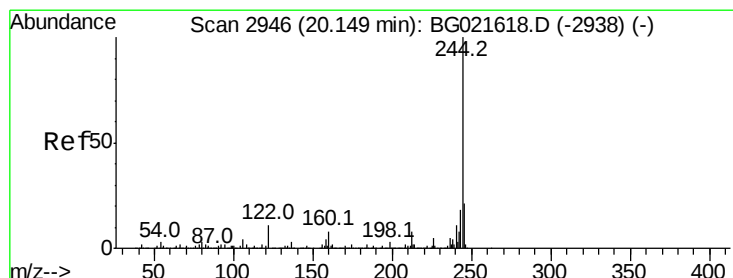
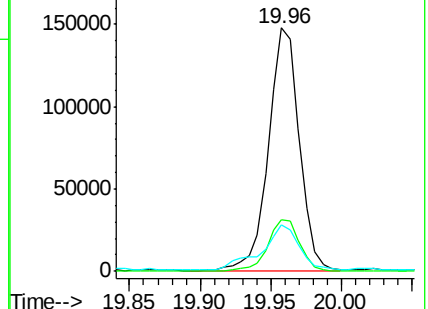
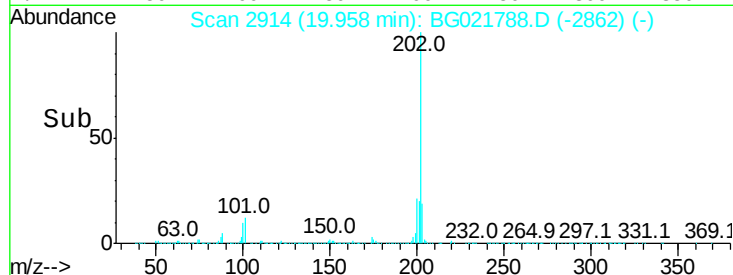
203 19.0 15.0 22.4



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: 40.05 ng

RT: 20.15 min Scan# 2946

Delta R.T. -0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

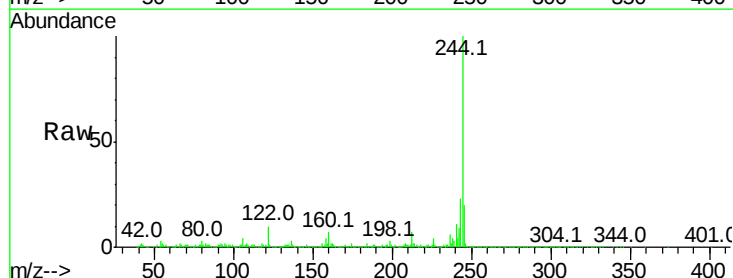
Tgt Ion:244 Resp: 375638

Ion Ratio Lower Upper

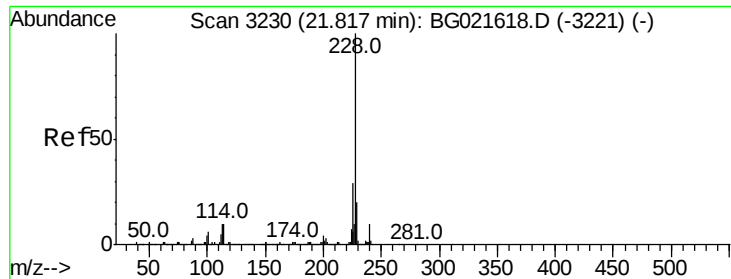
244 100

212 7.5 6.5 9.7

122 10.4 8.6 12.8



Abundance Ion 244.00 (243.70 to



#80

Benzo(a)anthracene

Concen: 9.20 ng

RT: 21.82 min Scan# 3231

Delta R.T. 0.00 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

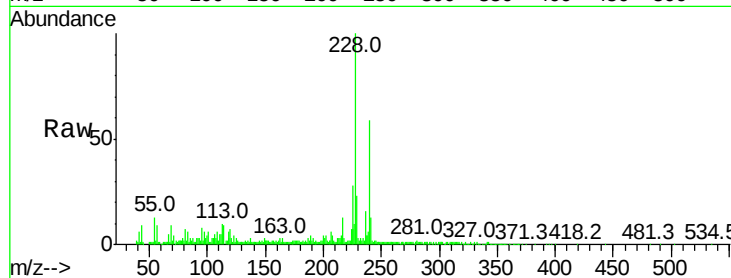
Tot Ion:228 Resp: 123966

Ion Ratio Lower Upper

228 100

226 28.4 22.6 34.0

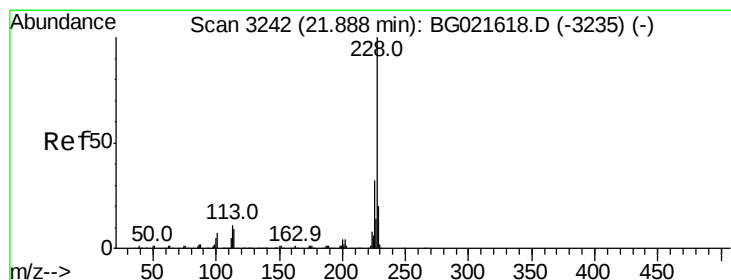
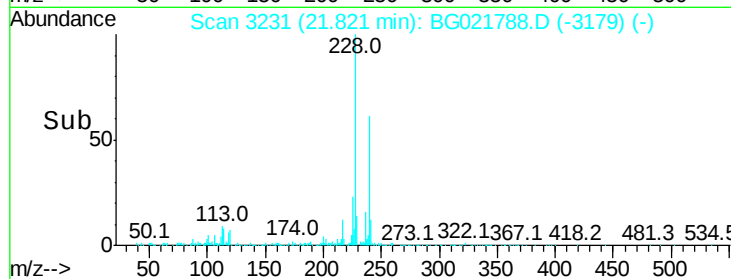
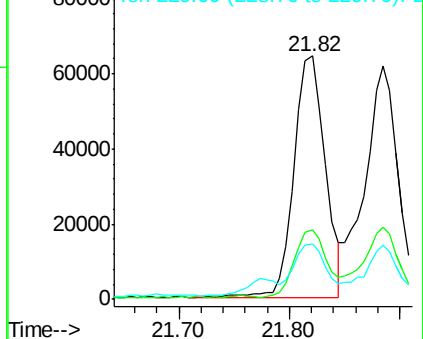
229 23.0 16.1 24.1



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: 9.69 ng

RT: 21.89 min Scan# 3242

Delta R.T. -0.00 min

Lab File: BG021788.D

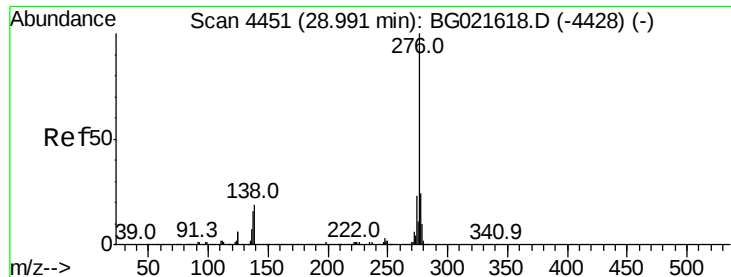
Acq: 20 Apr 2016 17:03

Tgt Ion:228 Resp: 125395

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.0



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.70 ng

RT: 29.01 min Scan# 4455

Delta R.T. 0.02 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

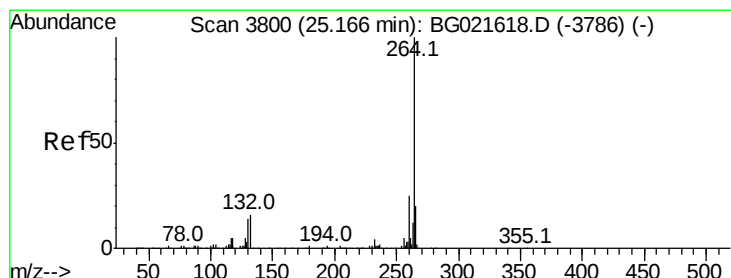
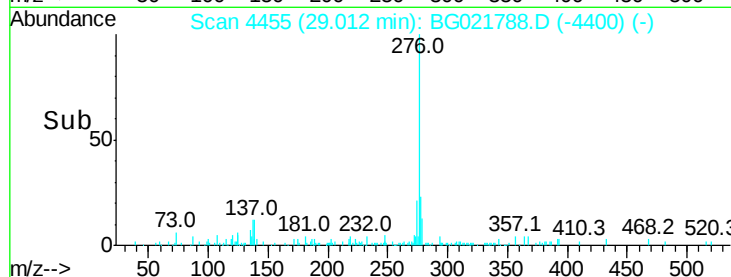
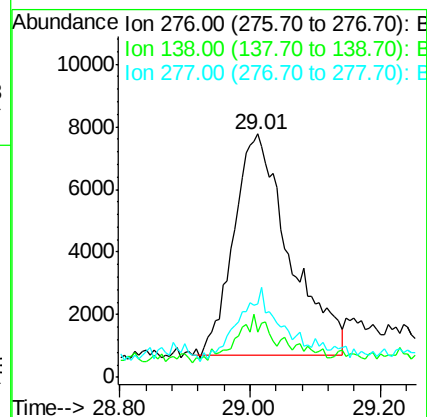
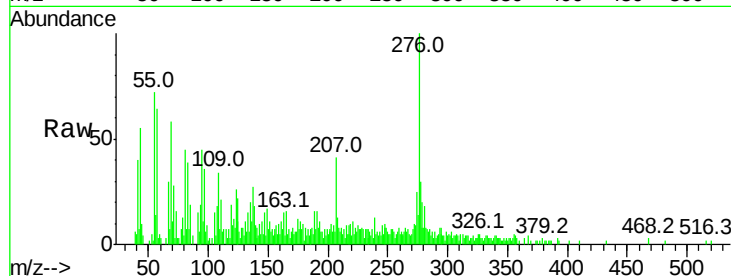
Tot Ion:276 Resp: 41586

Ion Ratio Lower Upper

276 100

138 12.7 14.0 21.0#

277 25.9 20.6 30.8



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.18 min Scan# 3803

Delta R.T. 0.02 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

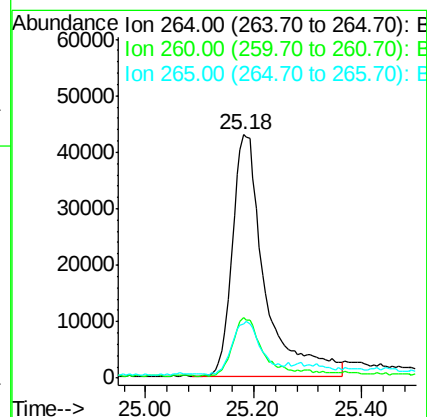
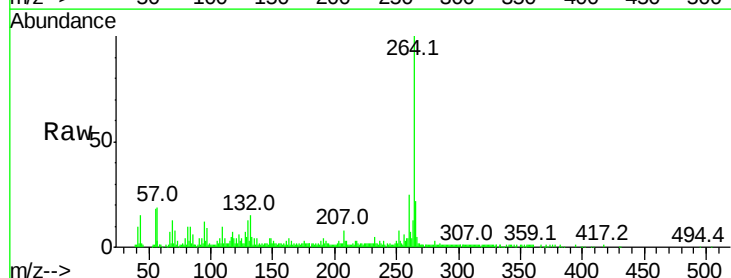
Tgt Ion:264 Resp: 180863

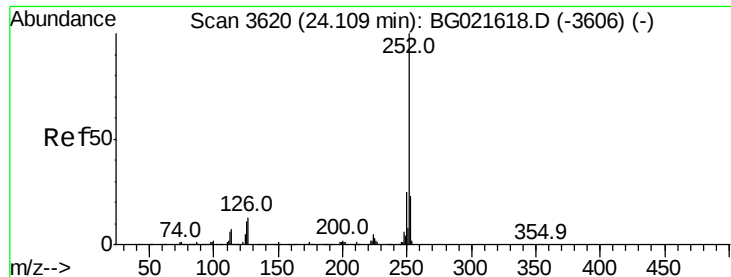
Ion Ratio Lower Upper

264 100

260 25.0 20.2 30.4

265 22.4 17.8 26.8





#87

Benzo(b)fluoranthene

Concen: 13.94 ng

RT: 24.12 min Scan# 3623

Delta R.T. 0.02 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampled :

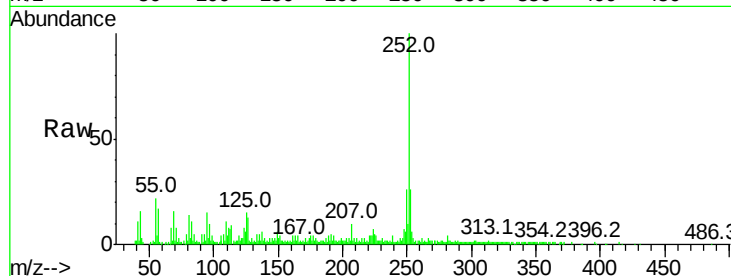
Tot Ion:252 Resp: 146265

Ion Ratio Lower Upper

252 100

253 25.8 17.5 26.3

125 14.5 8.6 13.0#

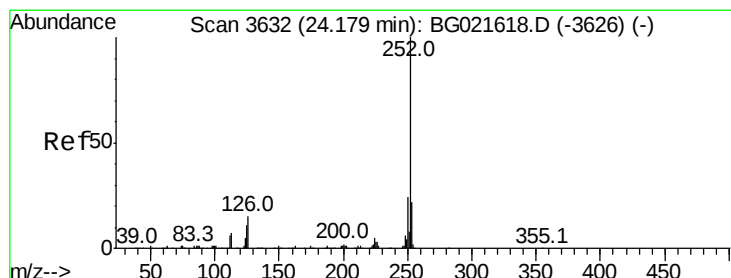
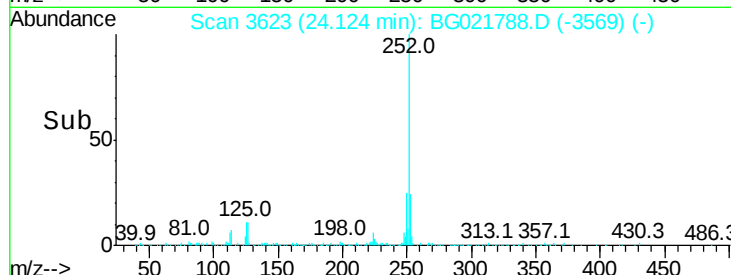
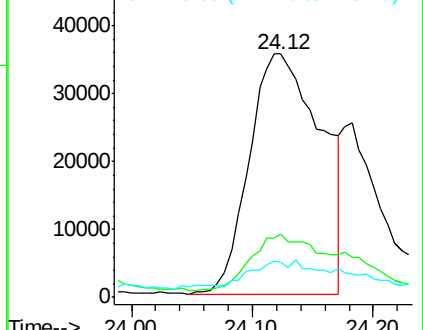


Abundance

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: 14.25 ng

RT: 24.12 min Scan# 3623

Delta R.T. -0.06 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

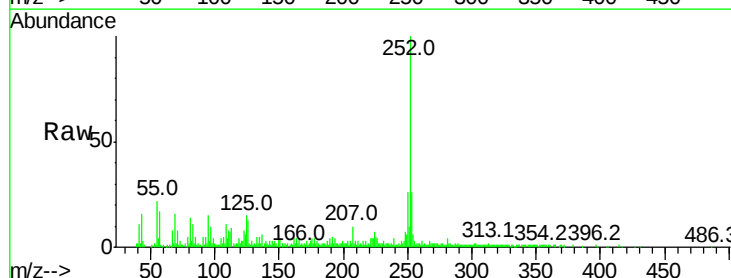
Tgt Ion:252 Resp: 146265

Ion Ratio Lower Upper

252 100

253 25.8 17.8 26.8

125 14.5 8.3 12.5#

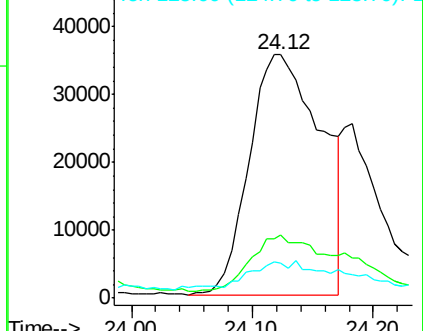


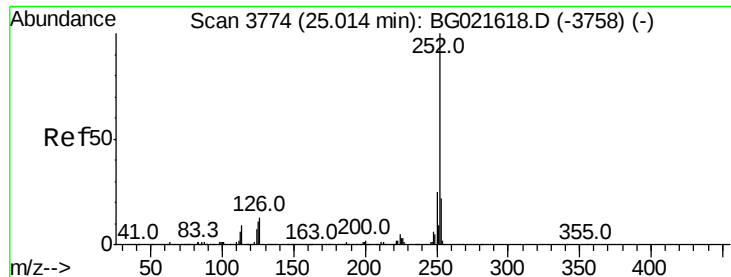
Abundance

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: 9.53 ng

RT: 25.03 min Scan# 3777

Delta R.T. 0.02 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

Instrument :

BNA_G

ClientSampleId :

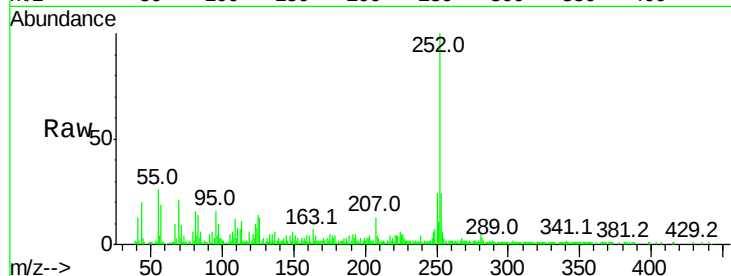
Tot Ion:252 Resp: 96885

Ion Ratio Lower Upper

252 100

253 24.4 17.1 25.7

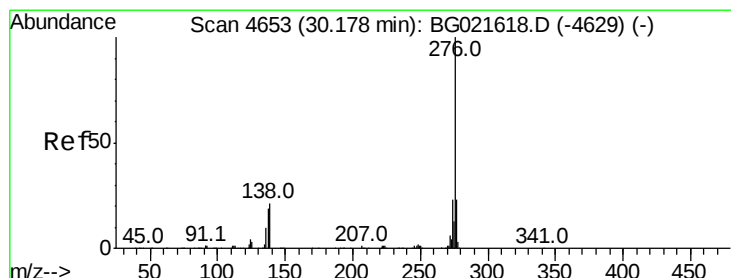
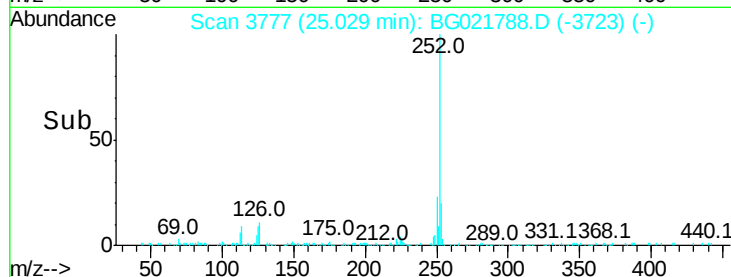
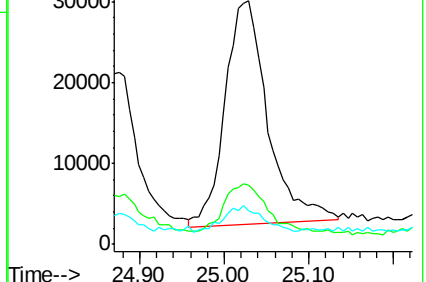
125 13.7 9.6 14.4



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: 4.03 ng

RT: 30.20 min Scan# 4658

Delta R.T. 0.03 min

Lab File: BG021788.D

Acq: 20 Apr 2016 17:03

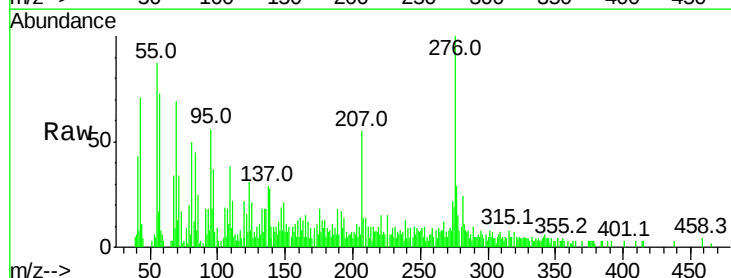
Tgt Ion:276 Resp: 40301

Ion Ratio Lower Upper

276 100

277 28.8 19.4 29.2

138 27.6 17.4 26.0#



Abundance Ion 276.00 (275.70 to 276.70): E