

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121915\
 Data File : BG020329.D
 Acq On : 20 Dec 2015 2:16
 Operator : UM/SJ
 Sample : G4866-11
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 E43M3

Quant Time: Dec 20 06:00:10 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sun Dec 20 05:53:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	23754	20.00	ng/ul	0.00
18) Naphthalene-d8	10.91	136	103720	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	69061	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	160137	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	198790	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	192690	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.46	96	1975	4.59	ng/uL	0.00
5) Phenol-d5	7.24	99	51799	24.73	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	31027	24.82	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	41356	27.15	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	41863	23.37	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	22206	27.47	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	26103	29.01	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	48433	26.58	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	41146	20.10	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	158764	28.42	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	182704	28.11	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	21663	21.62	ng/ul	0.00
58) Fluorene-d10	15.71	176	142284	28.08	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	23295	24.54	ng/ul	0.00
71) Anthracene-d10	17.57	188	208519	28.26	ng/ul	0.00
79) Pyrene-d10	19.85	212	240813	25.99	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	268042	27.89	ng/ul	0.01

Target Compounds

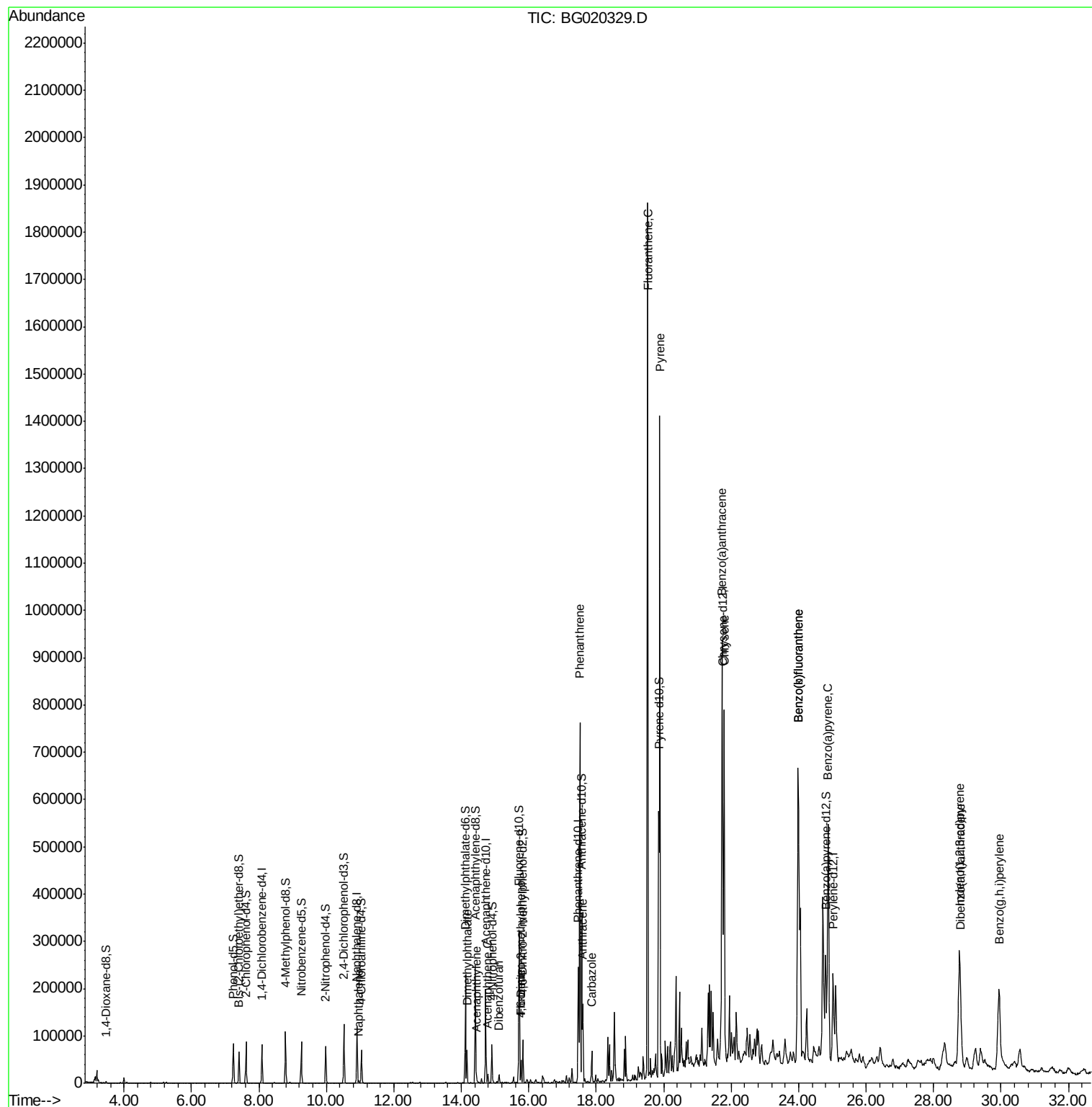
						Qvalue
28) Naphthalene	10.96	128	5657	1.04	ng/ul	97
45) Dimethylphthalate	14.17	163	47917	8.40	ng/ul	99
48) Acenaphthylene	14.45	152	11064	1.60	ng/ul#	95
50) Acenaphthene	14.78	153	9462	2.04	ng/ul	98
54) Dibenzofuran	15.11	168	10725	1.55	ng/ul	96
59) Fluorene	15.77	166	21133	3.81	ng/ul	97
64) 4,6-Dinitro-2-methylphenol	15.76	198	1070	1.05	ng/ul#	58
70) Phenanthrene	17.51	178	486968	55.59	ng/ul	99
72) Anthracene	17.60	178	110722	12.46	ng/ul	99
75) Carbazole	17.86	167	44377	5.94	ng/ul	99
77) Fluoranthene	19.52	202	1193750	116.61	ng/ul	99
80) Pyrene	19.88	202	922718	76.69	ng/ul	98
83) Benzo(a)anthracene	21.72	228	575208	49.59	ng/ul	97
85) Chrysene	21.80	228	567870	51.98	ng/ul	96
88) Benzo(b)fluoranthene	23.99	252	841395	72.55	ng/ul	96
89) Benzo(k)fluoranthene	23.99	252	841395	75.60	ng/ul	99
91) Benzo(a)pyrene	24.87	252	553167	50.32	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.77	276	461152	35.22	ng/ul	94
93) Dibenzo(a,h)anthracene	28.80	278	102838	9.46	ng/ul#	94
94) Benzo(g,h,i)perylene	29.94	276	395790	36.88	ng/ul	99

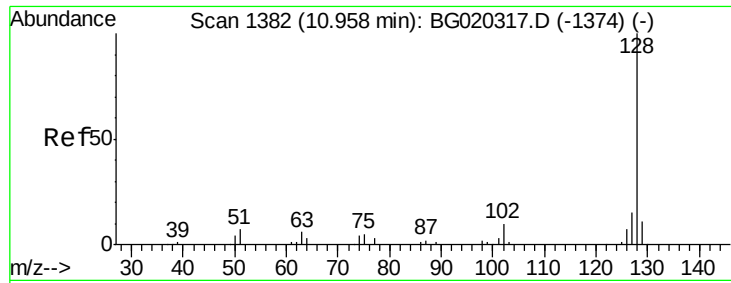
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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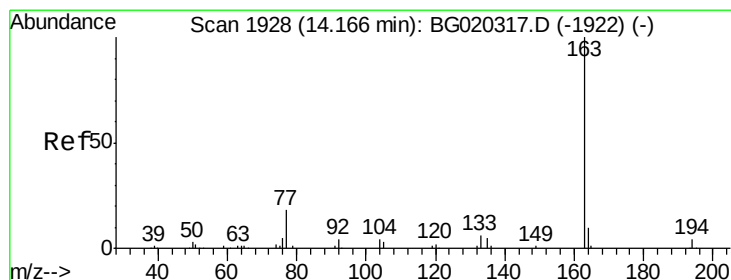
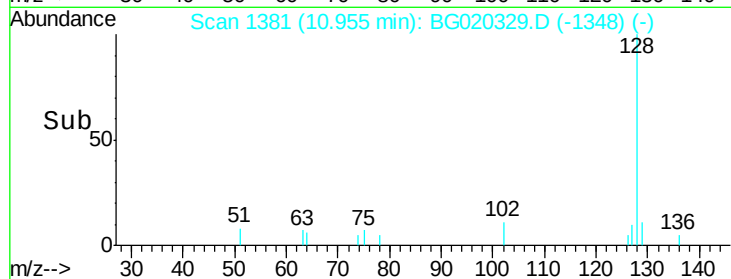
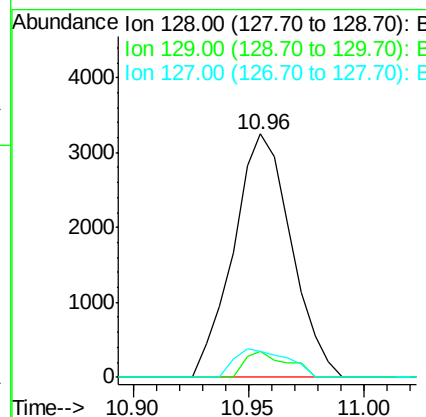
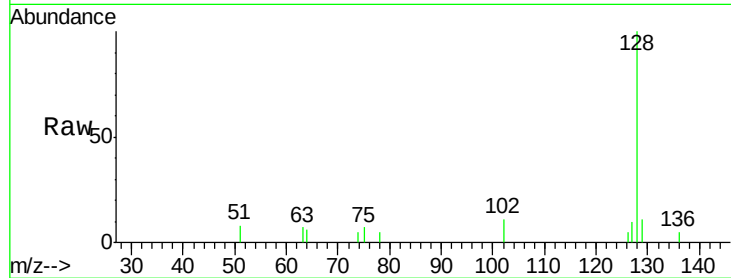




#28
Naphthalene
Concen: 1.04 ng/ul
RT: 10.96 min Scan# 1381
Delta R.T. -0.00 min
Lab File: BG020329.D
Acq: 20 Dec 2015 2:16

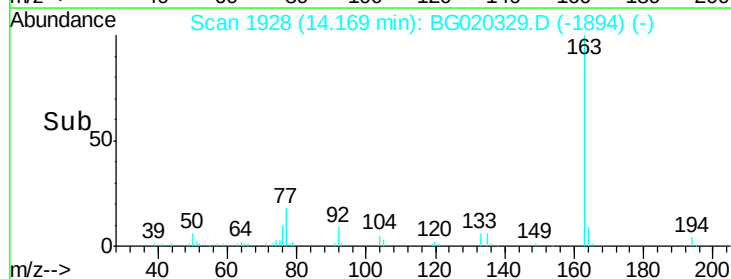
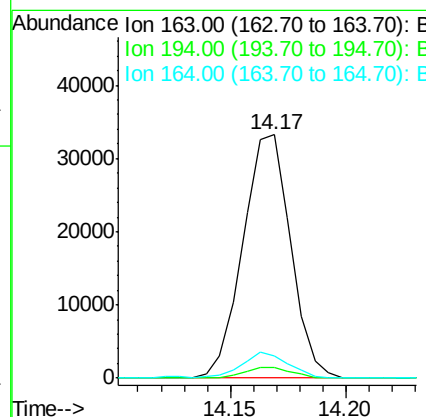
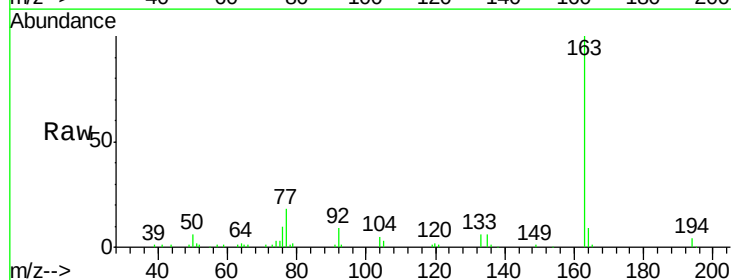
Instrument :
BNA_G
ClientSampleId :
E43M3

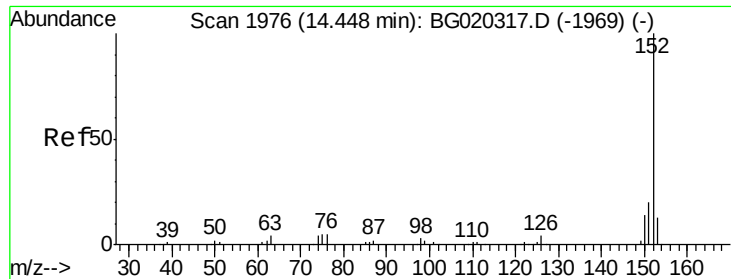
Tgt Ion:128 Resp: 5657
Ion Ratio Lower Upper
128 100
129 10.8 8.6 12.8
127 10.5 10.1 15.1



#45
Dimethylphthalate
Concen: 8.40 ng/ul
RT: 14.17 min Scan# 1928
Delta R.T. 0.00 min
Lab File: BG020329.D
Acq: 20 Dec 2015 2:16

Tgt Ion:163 Resp: 47917
Ion Ratio Lower Upper
163 100
194 4.3 3.5 5.3
164 9.0 7.7 11.5





#48

Acenaphthylene

Concen: 1.60 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. 0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

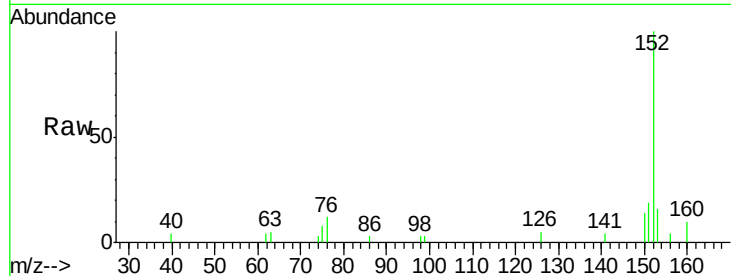
Tgt Ion:152 Resp: 11064

Ion Ratio Lower Upper

152 100

151 18.8 16.4 24.6

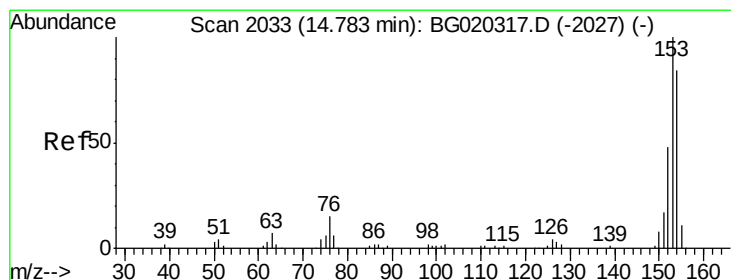
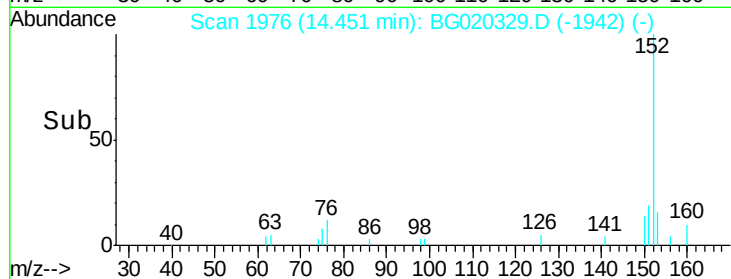
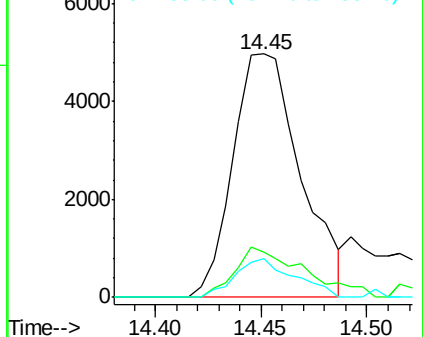
153 15.8 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 2.04 ng/ul

RT: 14.78 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

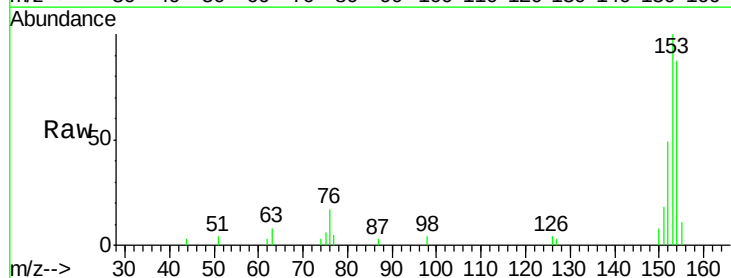
Tgt Ion:153 Resp: 9462

Ion Ratio Lower Upper

153 100

152 48.9 37.6 56.4

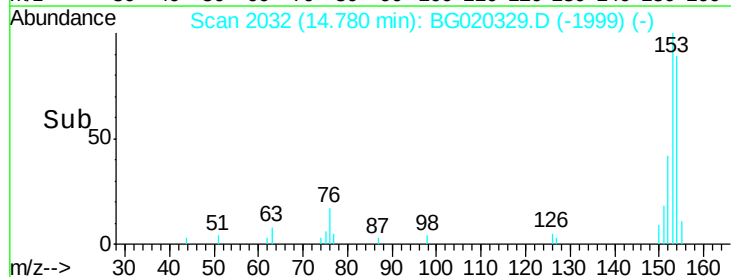
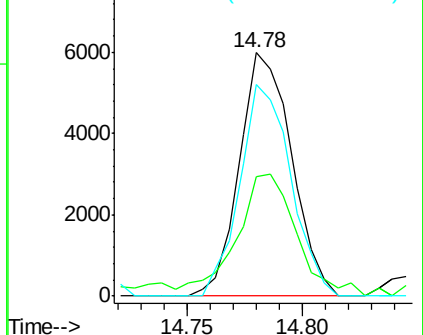
154 86.7 67.9 101.9

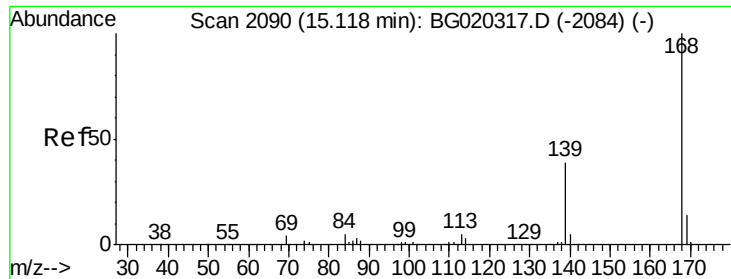


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 1.55 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. -0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

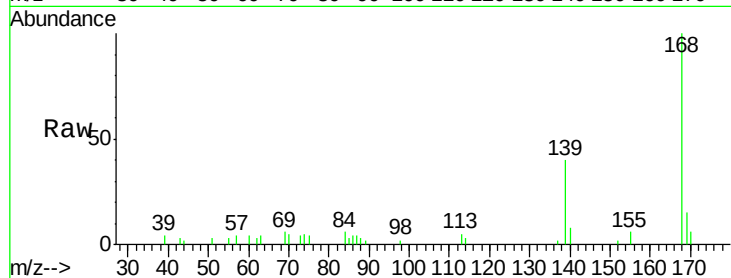
E43M3

Tgt Ion:168 Resp: 10725

Ion Ratio Lower Upper

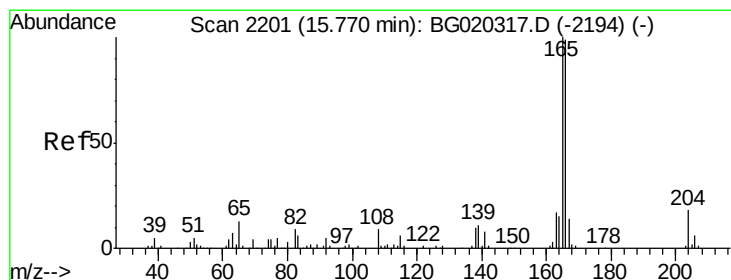
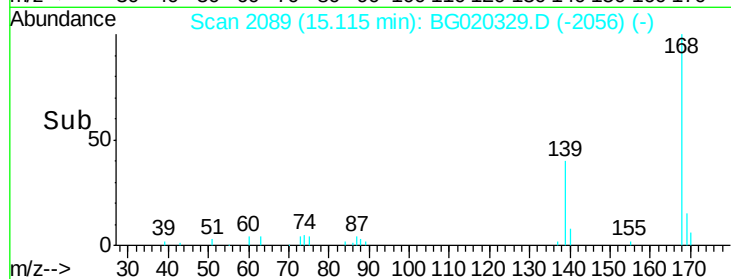
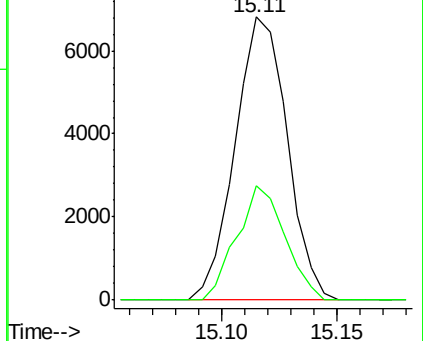
168 100

139 40.3 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 3.81 ng/ul

RT: 15.77 min Scan# 2200

Delta R.T. -0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

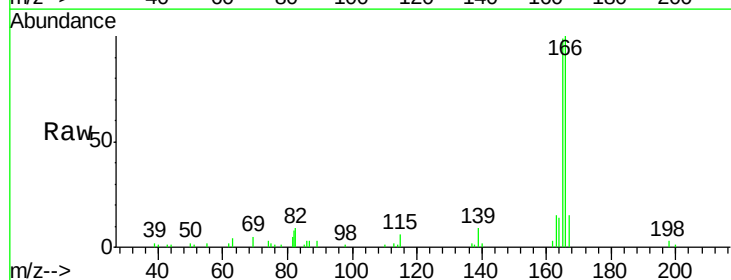
Tgt Ion:166 Resp: 21133

Ion Ratio Lower Upper

166 100

165 98.7 81.4 122.0

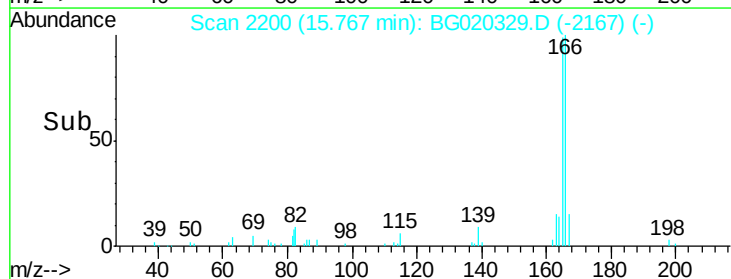
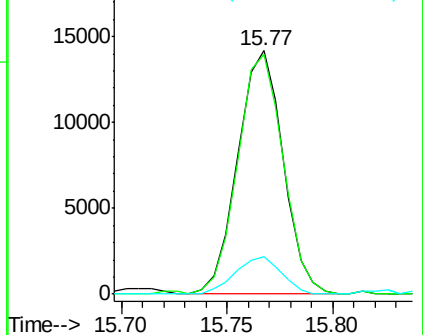
167 15.4 11.2 16.8

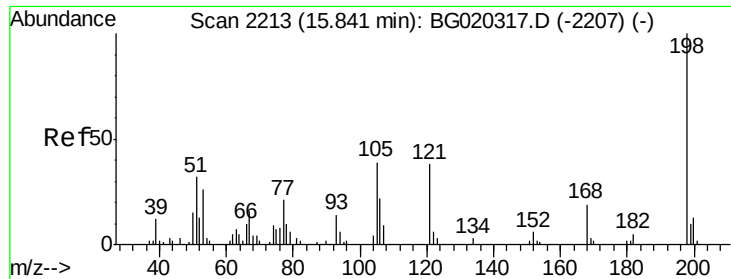


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

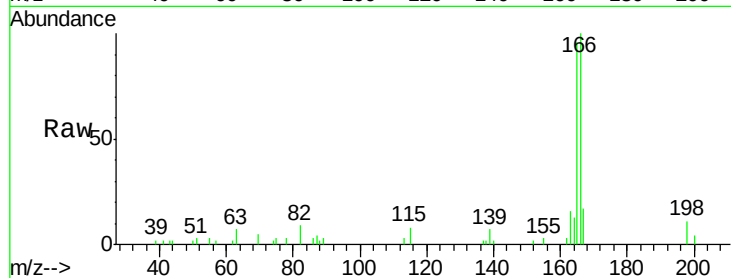




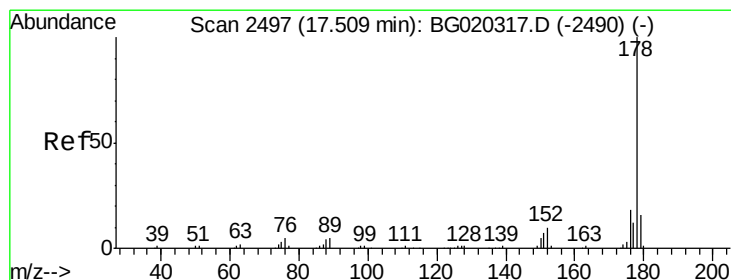
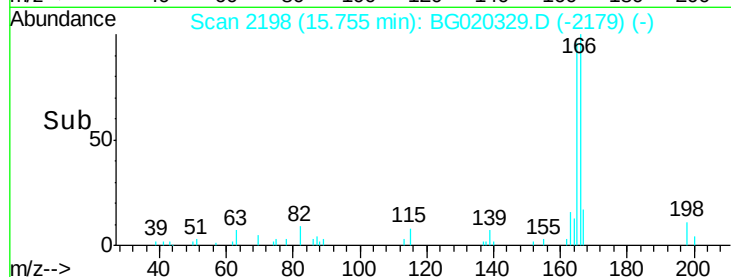
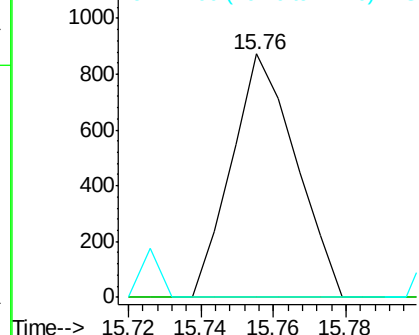
#64
 4,6-Dinitro-2-methylphenol
 Concen: 1.05 ng/ul
 RT: 15.76 min Scan# 2198
 Delta R.T. -0.09 min
 Lab File: BG020329.D
 Acq: 20 Dec 2015 2:16

Instrument :
 BNA_G
 ClientSampleId :
 E43M3

Tgt Ion	Ratio	Lower	Upper
198	100		
182	0.0	2.5	3.7#
77	0.0	17.7	26.5#

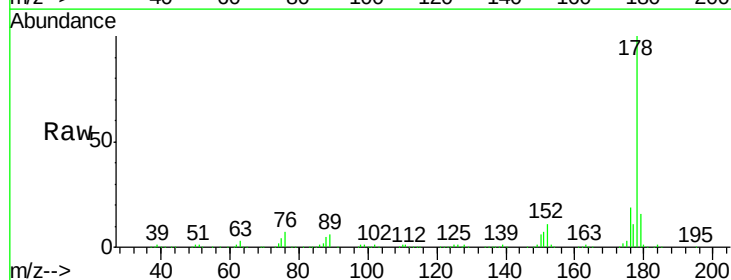


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 77.00 (76.70 to 77.70): B

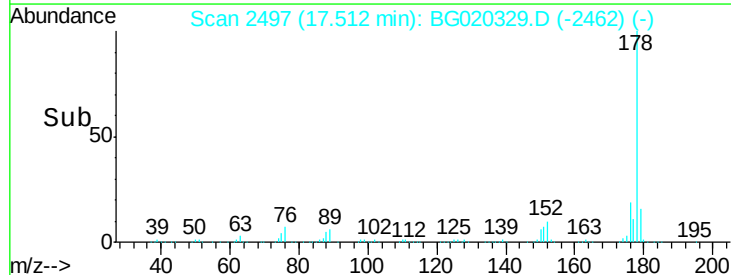
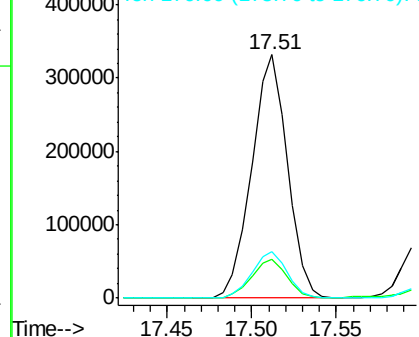


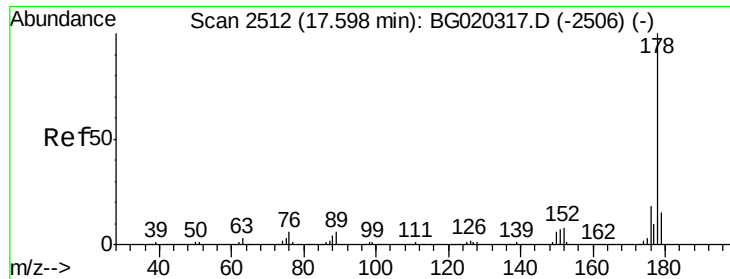
#70
 Phenanthrene
 Concen: 55.59 ng/ul
 RT: 17.51 min Scan# 2497
 Delta R.T. 0.00 min
 Lab File: BG020329.D
 Acq: 20 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.9	19.3
176	19.2	15.3	22.9



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





#72

Anthracene

Concen: 12.46 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. 0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

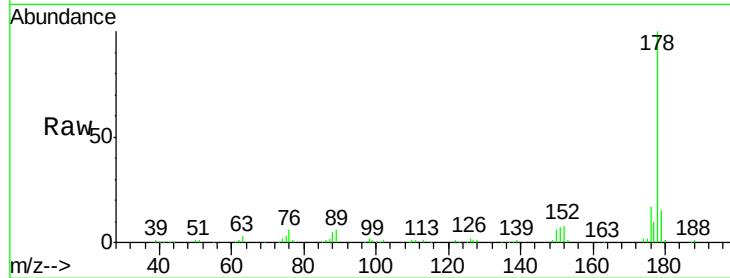
Tgt Ion:178 Resp: 110722

Ion Ratio Lower Upper

178 100

179 14.9 12.3 18.5

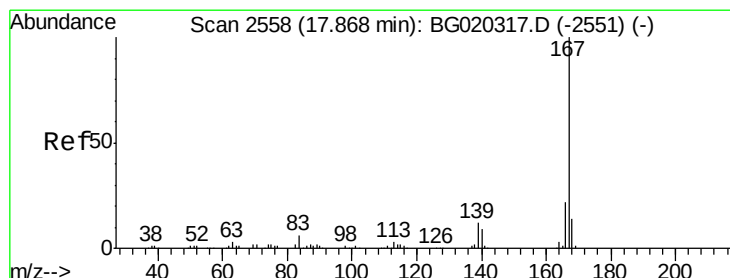
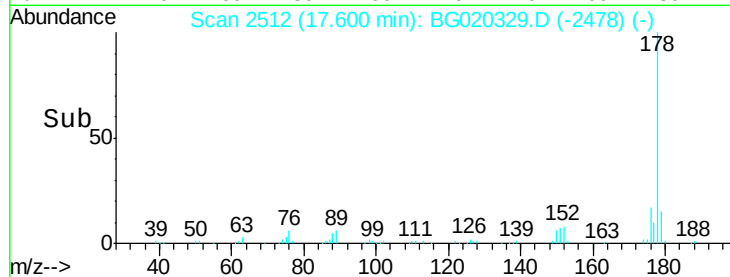
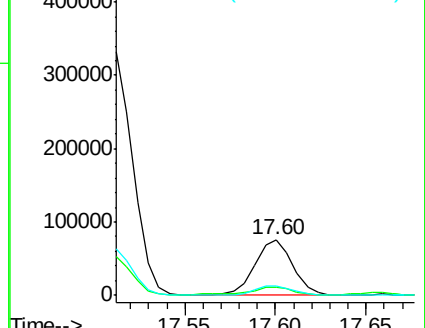
176 17.3 14.3 21.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#75

Carbazole

Concen: 5.94 ng/ul

RT: 17.86 min Scan# 2557

Delta R.T. -0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

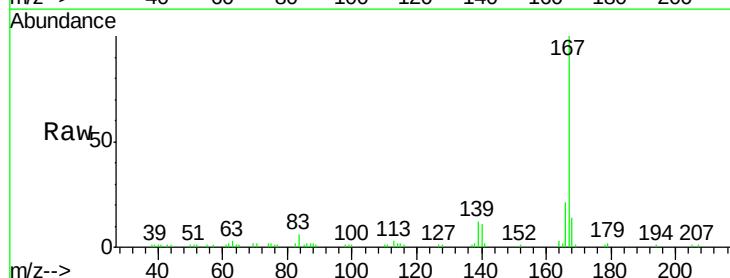
Tgt Ion:167 Resp: 44377

Ion Ratio Lower Upper

167 100

166 20.7 17.0 25.6

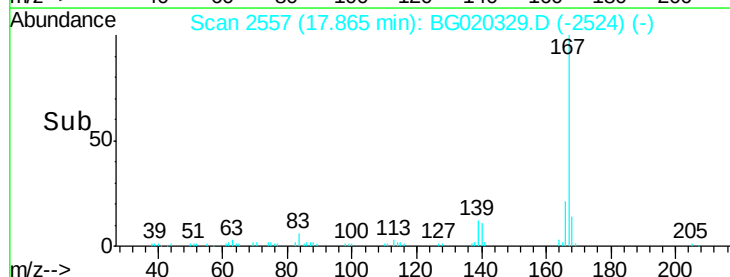
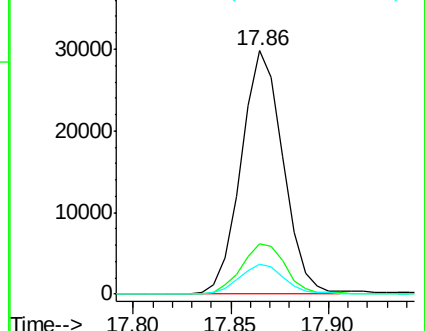
139 12.5 10.1 15.1

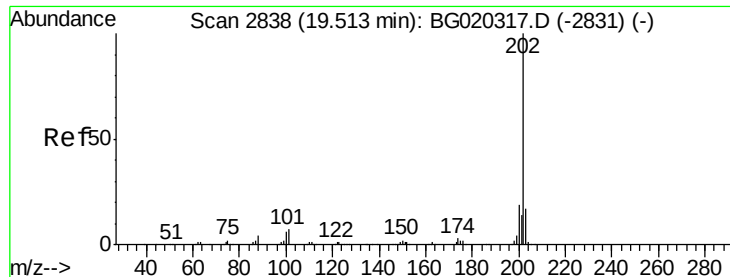


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

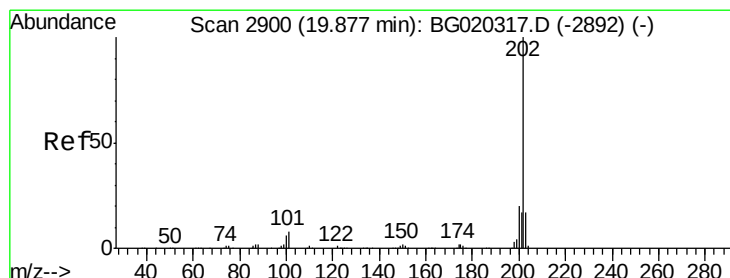
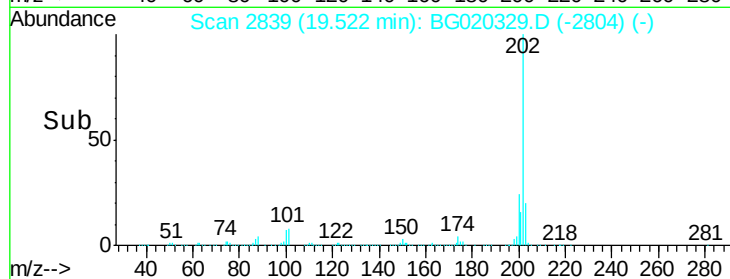
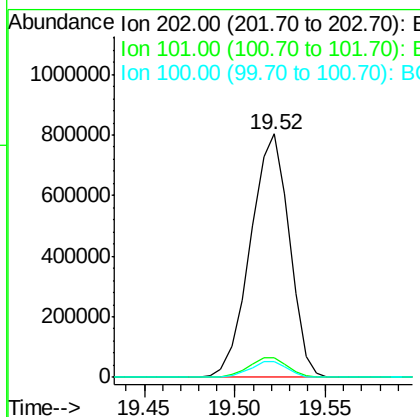
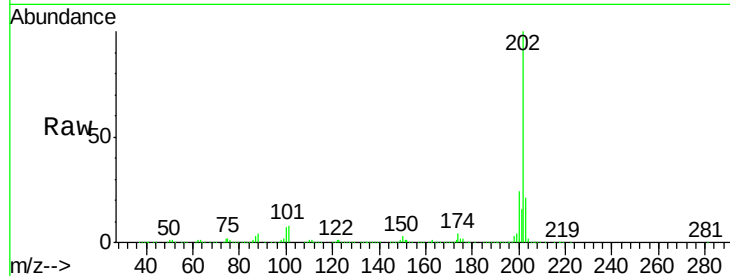




#77
Fluoranthene
Concen: 116.61 ng/ul
RT: 19.52 min Scan# 2839
Delta R.T. 0.01 min
Lab File: BG020329.D
Acq: 20 Dec 2015 2:16

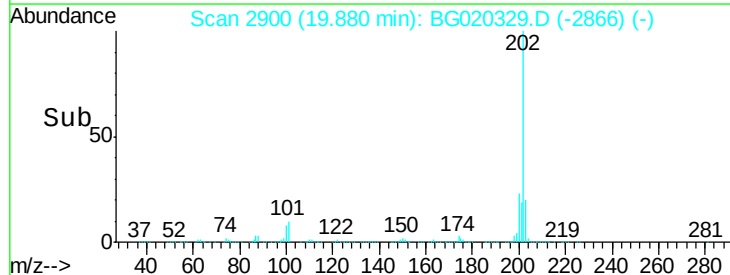
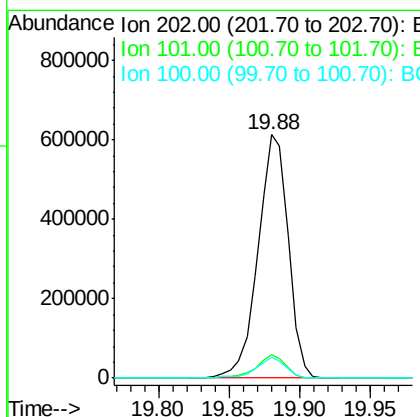
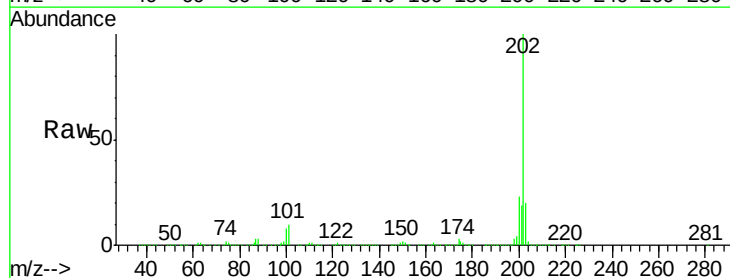
Instrument :
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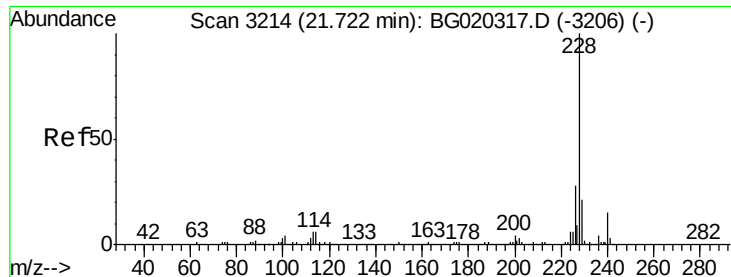
Tgt Ion:202 Resp: 1193750
Ion Ratio Lower Upper
202 100
101 8.2 6.2 9.4
100 6.6 5.1 7.7



#80
Pyrene
Concen: 76.69 ng/ul
RT: 19.88 min Scan# 2900
Delta R.T. 0.00 min
Lab File: BG020329.D
Acq: 20 Dec 2015 2:16

Tgt Ion:202 Resp: 922718
Ion Ratio Lower Upper
202 100
101 9.7 7.0 10.4
100 8.4 6.4 9.6





#83

Benzo(a)anthracene

Concen: 49.59 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.00 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

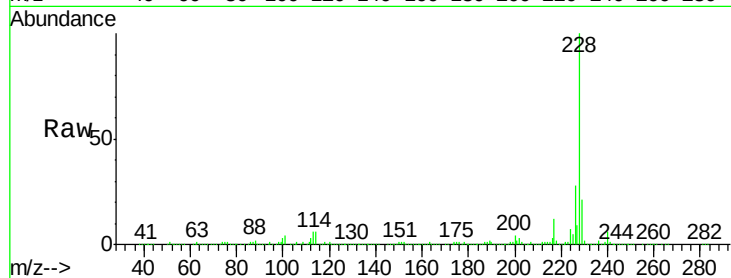
Tgt Ion:228 Resp: 575208

Ion Ratio Lower Upper

228 100

229 21.2 15.8 23.8

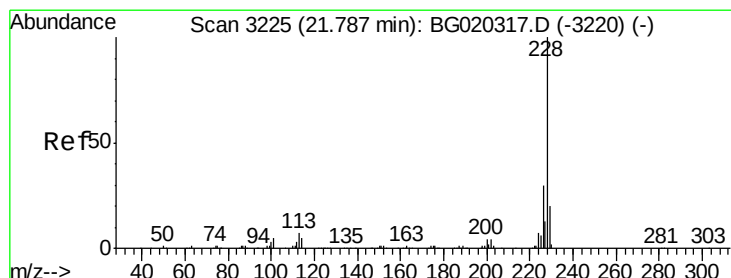
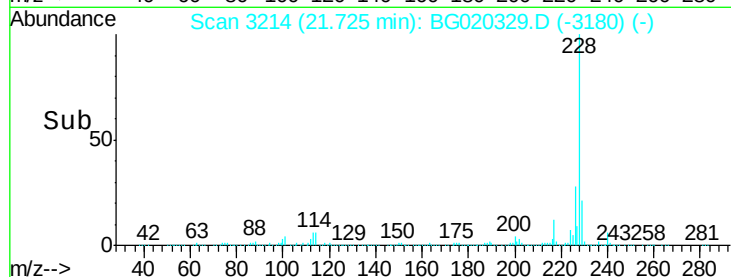
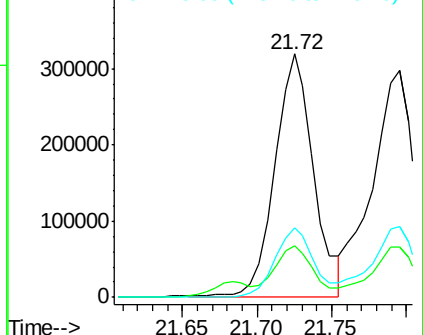
226 28.5 21.8 32.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#85

Chrysene

Concen: 51.98 ng/ul

RT: 21.80 min Scan# 3226

Delta R.T. 0.01 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

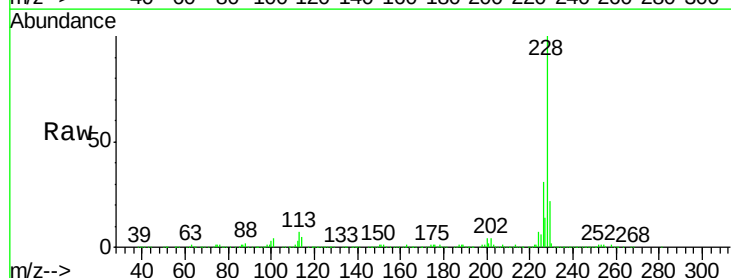
Tgt Ion:228 Resp: 567870

Ion Ratio Lower Upper

228 100

226 31.4 23.9 35.9

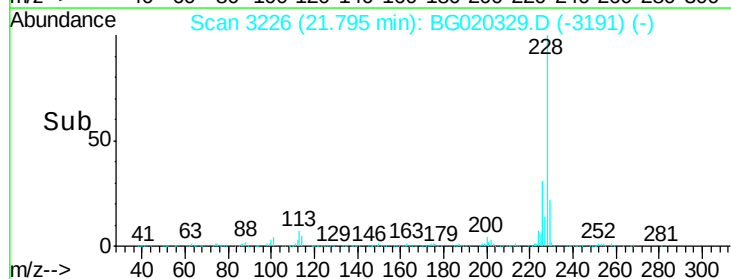
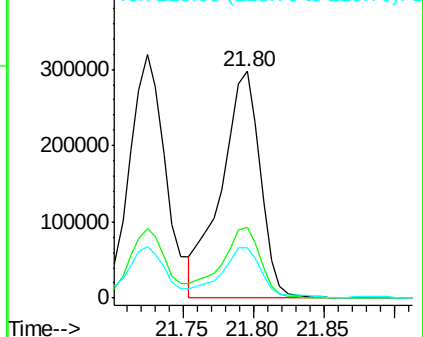
229 22.0 15.6 23.4

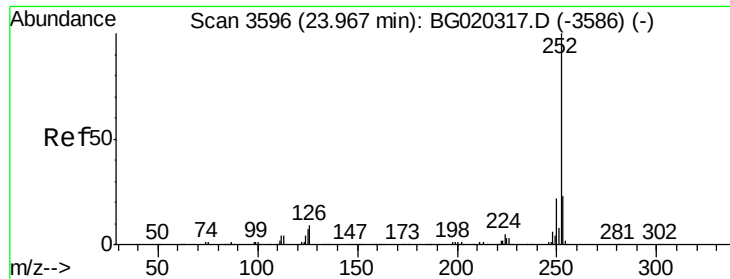


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 72.55 ng/ul

RT: 23.99 min Scan# 3599

Delta R.T. 0.02 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

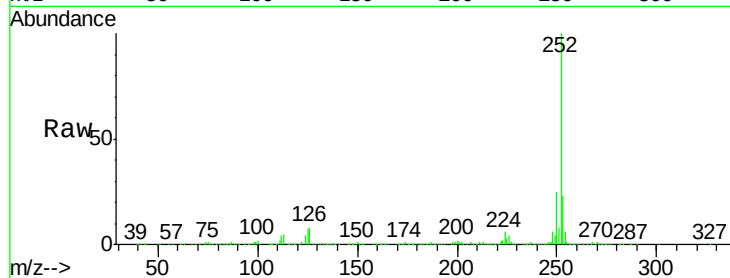
Tgt Ion:252 Resp: 841395

Ion Ratio Lower Upper

252 100

253 23.2 16.7 25.1

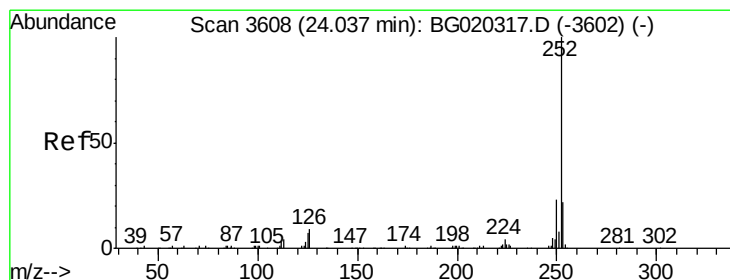
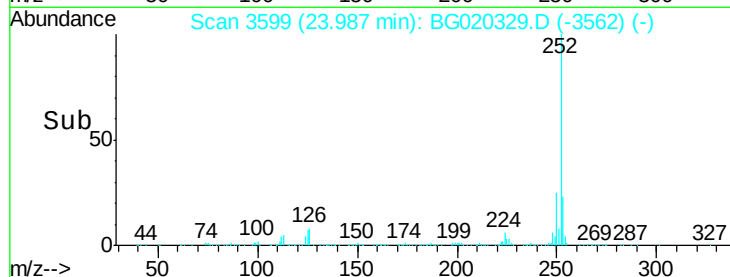
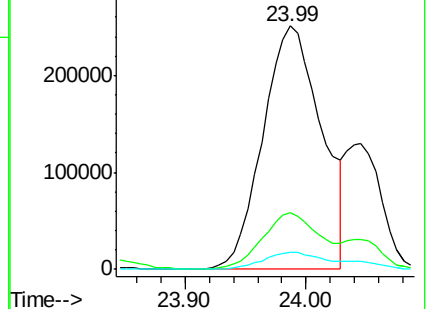
125 7.0 6.2 9.2



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(k)fluoranthene

Concen: 75.60 ng/ul

RT: 23.99 min Scan# 3599

Delta R.T. -0.05 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

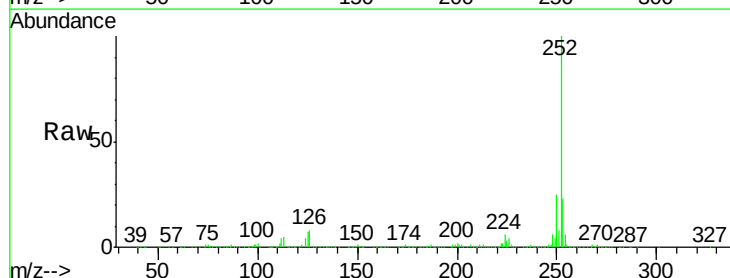
Tgt Ion:252 Resp: 841395

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

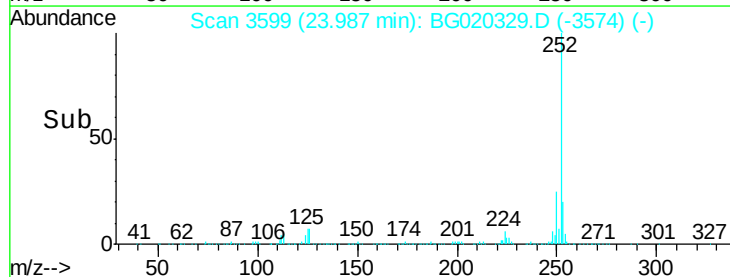
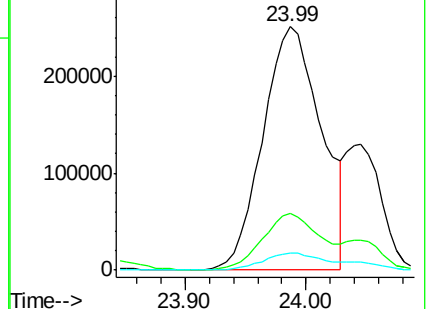
125 7.0 5.8 8.6

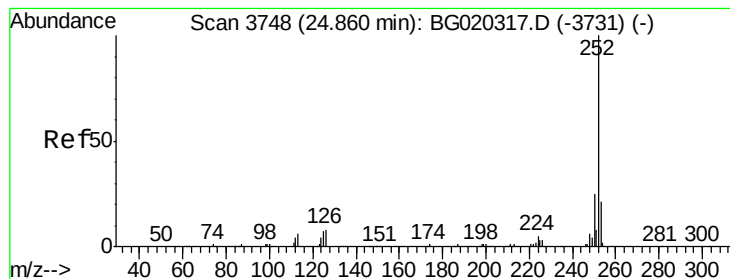


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 50.32 ng/ul

RT: 24.87 min Scan# 3750

Delta R.T. 0.01 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

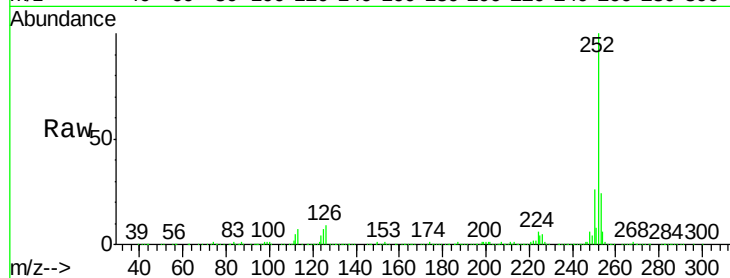
Tgt Ion:252 Resp: 553167

Ion Ratio Lower Upper

252 100

253 23.6 17.0 25.4

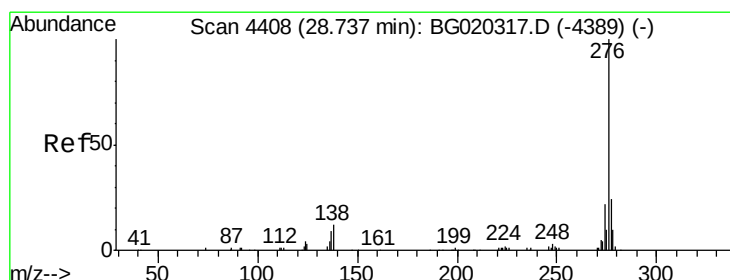
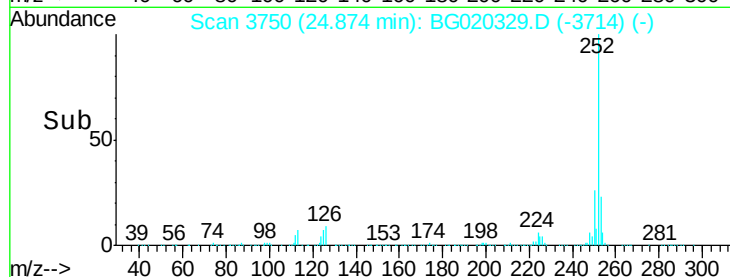
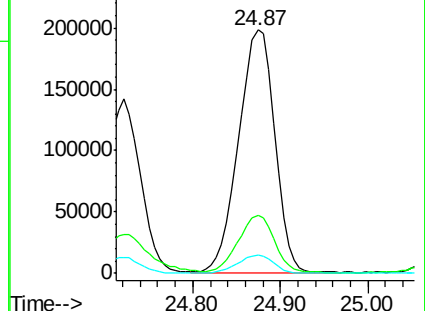
125 7.3 6.2 9.4



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 35.22 ng/ul

RT: 28.77 min Scan# 4413

Delta R.T. 0.03 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

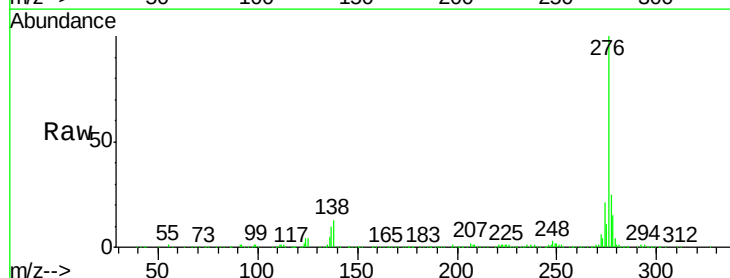
Tgt Ion:276 Resp: 461152

Ion Ratio Lower Upper

276 100

138 12.5 11.4 17.0

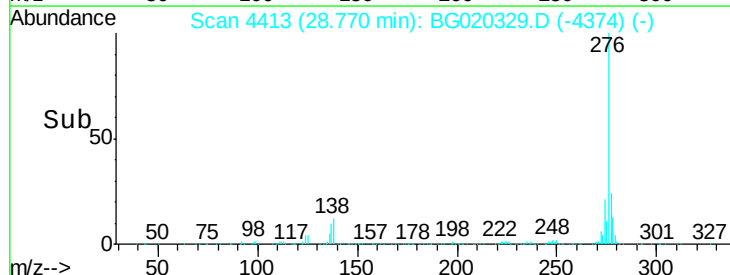
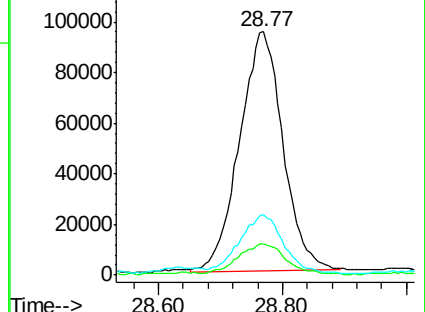
277 25.0 17.4 26.0

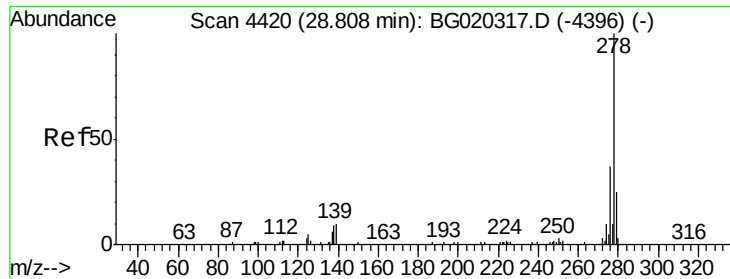


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 9.46 ng/ul

RT: 28.80 min Scan# 4418

Delta R.T. -0.01 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

Instrument :

BNA_G

ClientSampleId :

E43M3

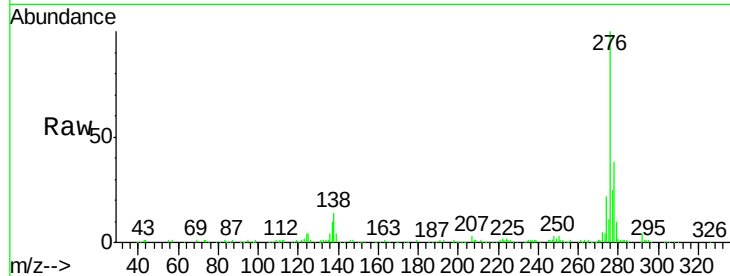
Tgt Ion: 278 Resp: 102838

Ion Ratio Lower Upper

278 100

139 9.4 9.4 14.2#

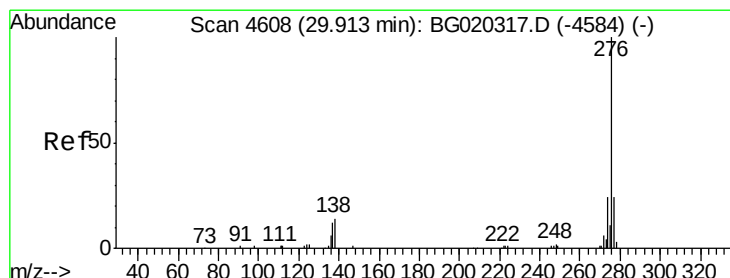
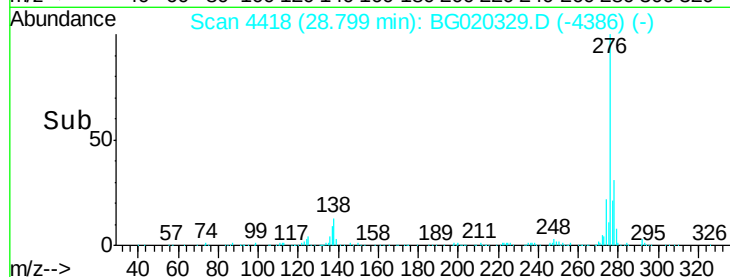
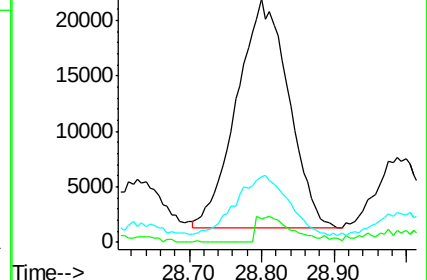
279 26.9 19.4 29.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#94

Benzo(g,h,i)perylene

Concen: 36.88 ng/ul

RT: 29.94 min Scan# 4612

Delta R.T. 0.03 min

Lab File: BG020329.D

Acq: 20 Dec 2015 2:16

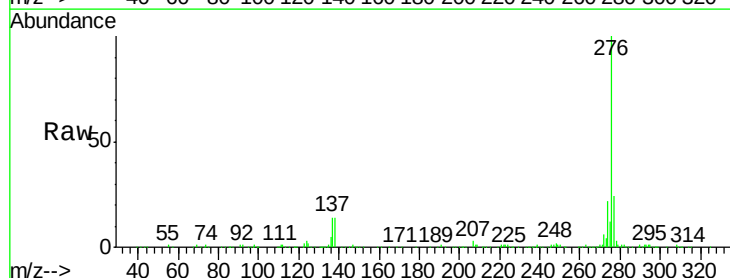
Tgt Ion: 276 Resp: 395790

Ion Ratio Lower Upper

276 100

138 14.3 10.8 16.2

277 24.4 19.9 29.9



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

