

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080515\
 Data File : BG018290.D
 Acq On : 6 Aug 2015 2:41
 Operator : UM/TP
 Sample : G3109-21RE
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F5RE

Quant Time: Aug 06 05:58:28 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	48389	20.00	ng/ul	0.00
18) Naphthalene-d8	10.22	136	210470	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.12	164	119215	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.88	188	183118	20.00	ng/ul	0.01
78) Chrysene-d12	21.10	240	160345	20.00	ng/ul	0.02
86) Perylene-d12	23.28	264	168692	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.92	96	1374	2.45	ng/uL	0.01
5) Phenol-d5	6.65	99	56472	14.84	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.78	67	28546	15.52	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	48171	15.20	ng/ul	0.00
13) 4-Methylphenol-d8	8.18	113	36269	11.29	ng/ul	0.01
19) Nitrobenzene-d5	8.60	128	26728	16.40	ng/ul	0.01
22) 2-Nitrophenol-d4	9.31	143	32633	17.31	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.87	165	54435	15.71	ng/ul	0.01
29) 4-Chloroaniline-d4	10.38	131	10479	2.52	ng/ul	0.02
44) Dimethylphthalate-d6	13.54	166	162997	17.68	ng/ul	0.01
47) Acenaphthylene-d8	13.81	160	182199	17.43	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	17132	11.26	ng/ul	0.02
58) Fluorene-d10	15.13	176	127870	15.44	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.28	200	4964	3.92	ng/ul	0.02
71) Anthracene-d10	16.98	188	130520	16.20	ng/ul	0.01
79) Pyrene-d10	19.30	212	97453	10.86	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.14	264	133672m	15.23	ng/ul	0.03

Target Compounds

					Ovalue	
28) Naphthalene	10.27	128	22459	2.27	ng/ul#	90
34) 2-Methylnaphthalene	11.90	142	13963	1.76	ng/ul	99
35) 1-Methylnaphthalene	12.12	142	9682	1.26	ng/ul	97
45) Dimethylphthalate	13.59	163	88222	9.59	ng/ul	99
50) Acenaphthene	14.19	153	37092	5.32	ng/ul	91
54) Dibenzofuran	14.53	168	28722	2.80	ng/ul	98
59) Fluorene	15.18	166	38307	4.25	ng/ul	88
70) Phenanthrene	16.93	178	634033	68.61	ng/ul	96
72) Anthracene	17.02	178	109072	11.83	ng/ul	98
75) Carbazole	17.30	167	53715	6.90	ng/ul	94
76) Di-n-butylphthalate	17.86	149	61690	5.65	ng/ul#	97
77) Fluoranthene	18.97	202	813246	79.34	ng/ul#	94
80) Pyrene	19.33	202	627566	56.29	ng/ul	97
81) Butylbenzylphthalate	20.24	149	20693	4.79	ng/ul#	78
83) Benzo(a)anthracene	21.09	228	369211	43.62	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.02	149	142086	27.30	ng/ul#	95
85) Chrysene	21.14	228	415088	54.59	ng/ul	95
88) Benzo(b)fluoranthene	22.63	252	548269	52.99	ng/ul#	97
89) Benzo(k)fluoranthene	22.66	252	208595m	21.03	ng/ul	
91) Benzo(a)pyrene	23.19	252	365106	40.42	ng/ul#	99
92) Indeno(1,2,3-cd)pyrene	25.48	276	194278	17.38	ng/ul	97
93) Dibenzo(a,h)anthracene	25.48	278	52115	5.31	ng/ul#	85
94) Benzo(g,h,i)perylene	26.16	276	152573	16.82	ng/ul	98

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080515\
Data File : BG018290.D
Acq On : 6 Aug 2015 2:41
Operator : UM/TP
Sample : G3109-21RE
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
C02F5RE

Quant Time: Aug 06 05:58:28 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

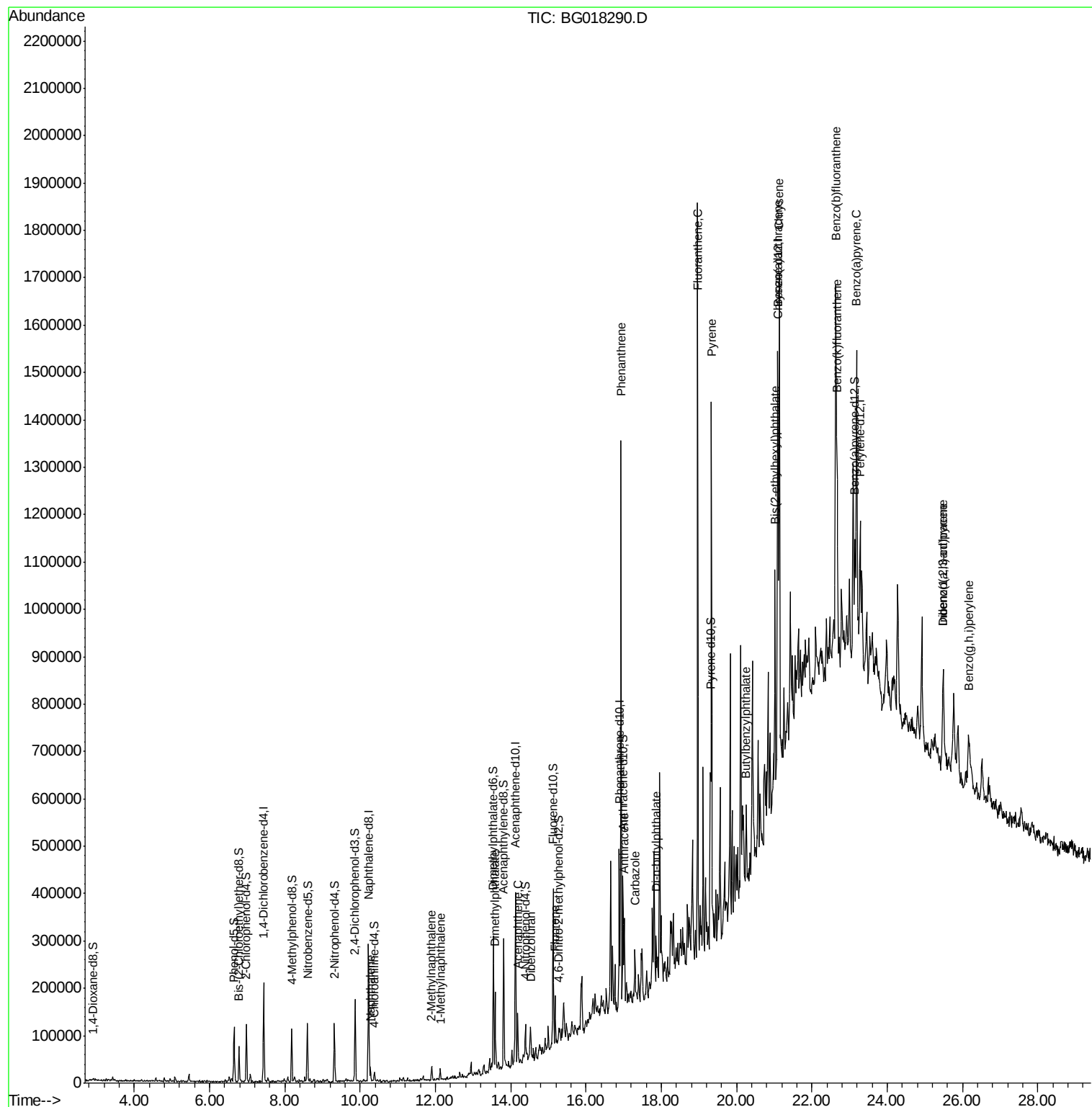
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

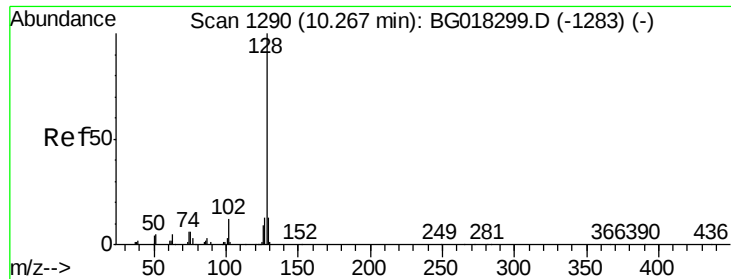
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG080515\
Data File : BG018290.D
Acq On : 6 Aug 2015 2:41
Operator : UM/TP
Sample : G3109-21RE
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
C02F5RE

Quant Time: Aug 06 05:58:28 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration





#28

Naphthalene

Concen: 2.27 ng/ul

RT: 10.27 min Scan# 1291

Delta R.T. 0.01 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

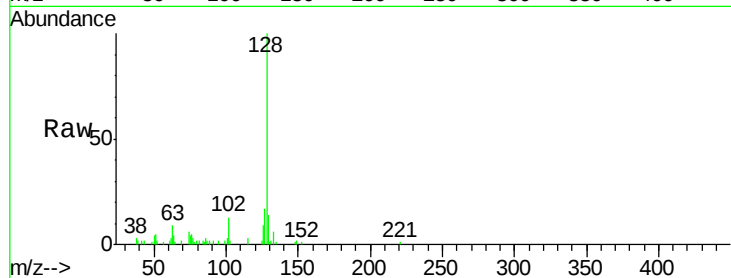
Tot Ion:128 Resp: 22459

Ion Ratio Lower Upper

128 100

129 13.8 7.8 11.6#

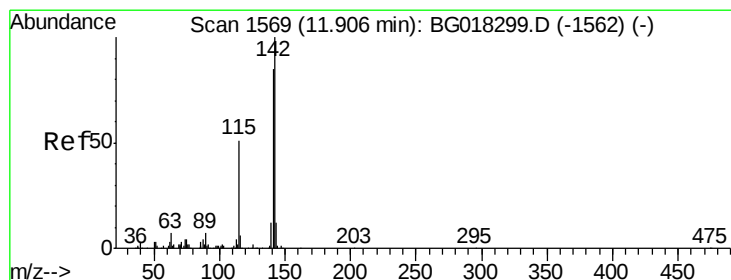
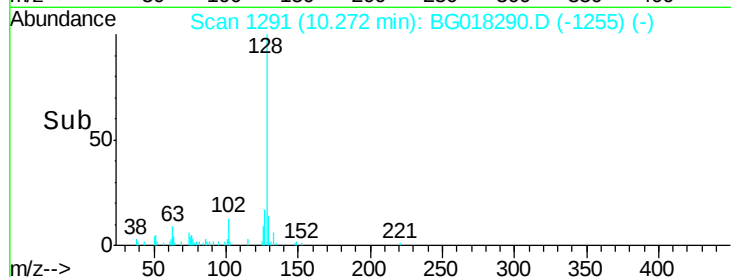
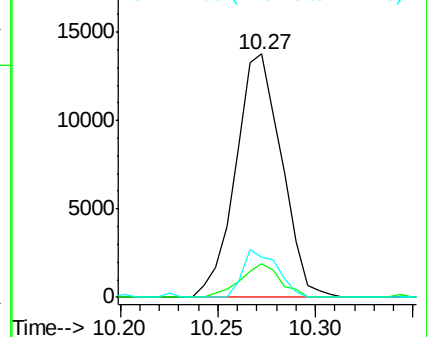
127 16.7 10.2 15.4#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 1.76 ng/ul

RT: 11.90 min Scan# 1568

Delta R.T. 0.00 min

Lab File: BG018290.D

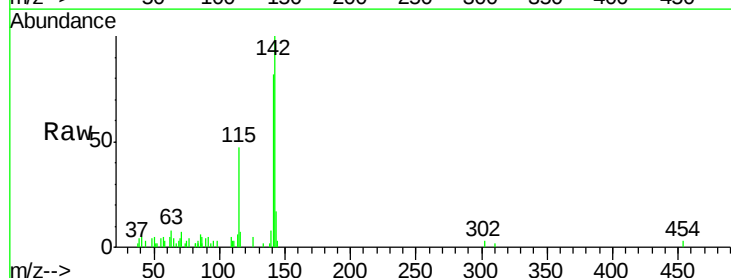
Acq: 6 Aug 2015 2:41

Tgt Ion:142 Resp: 13963

Ion Ratio Lower Upper

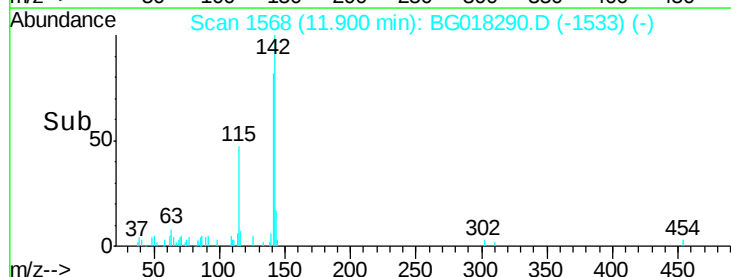
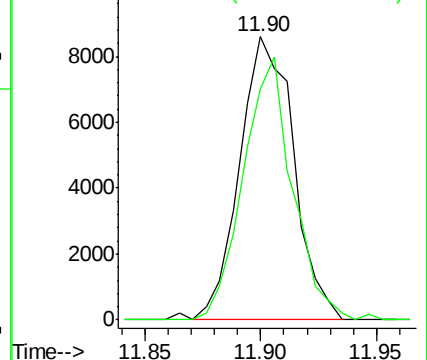
142 100

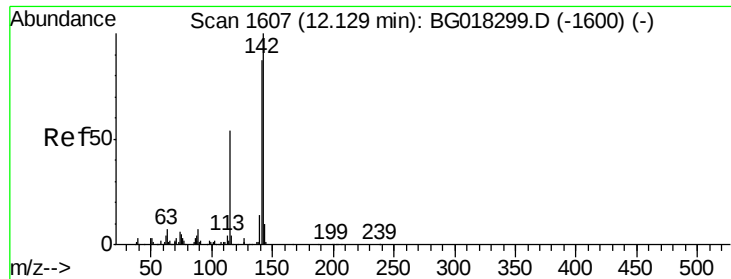
141 81.5 65.9 98.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#35

1-Methyl-naphthalene

Concen: 1.26 ng/ul

RT: 12.12 min Scan# 1606

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

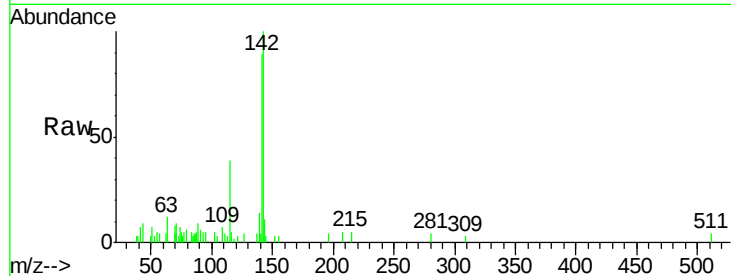
Tot Ion:142 Resp: 9682

Ion Ratio Lower Upper

142 100

141 88.7 69.0 103.4

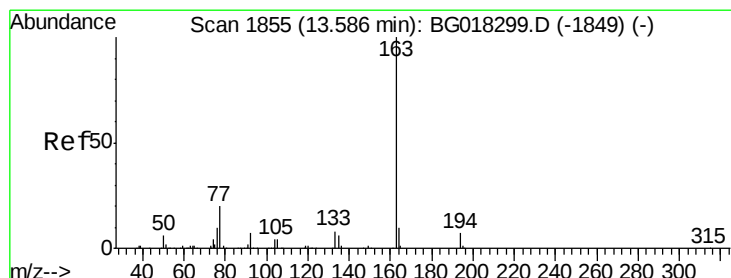
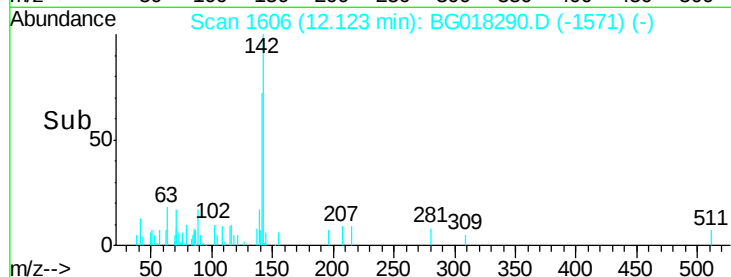
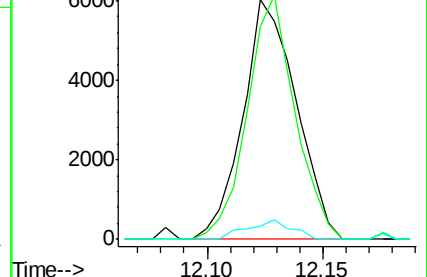
116 5.3 4.2 6.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#45

Dimethylphthalate

Concen: 9.59 ng/ul

RT: 13.59 min Scan# 1855

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

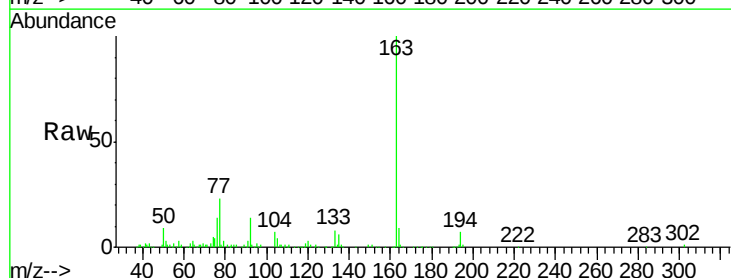
Tgt Ion:163 Resp: 88222

Ion Ratio Lower Upper

163 100

194 6.7 5.4 8.2

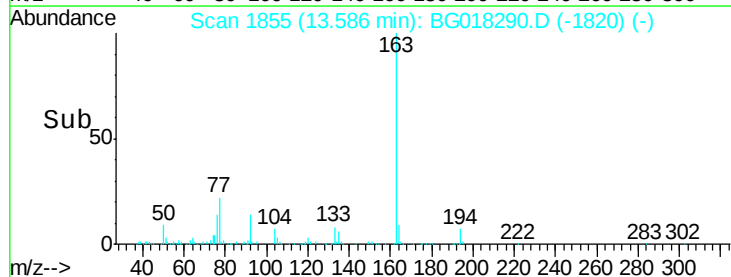
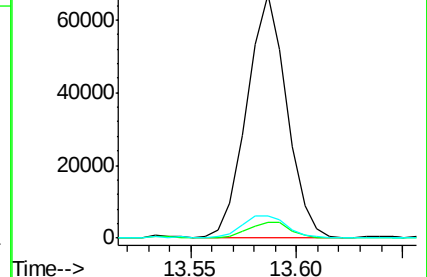
164 9.2 7.8 11.8

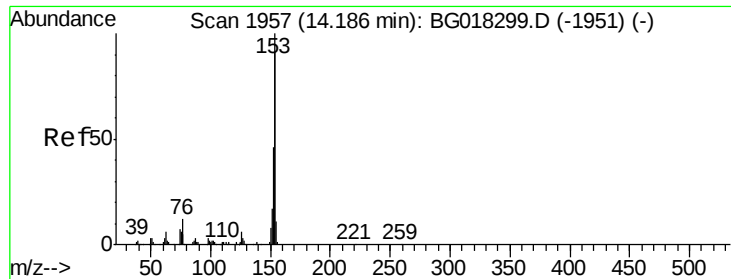


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

Acenaphthene

Concen: 5.32 ng/ul

RT: 14.19 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

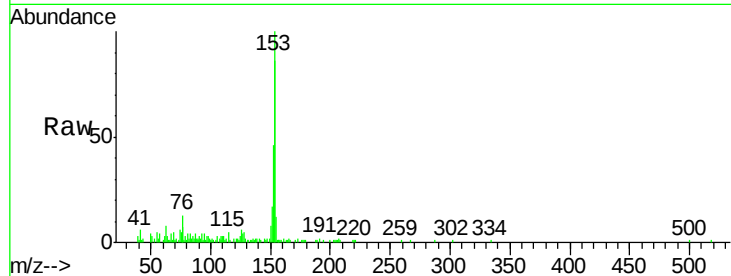
Tot Ion:153 Resp: 37092

Ion Ratio Lower Upper

153 100

152 45.6 39.0 58.4

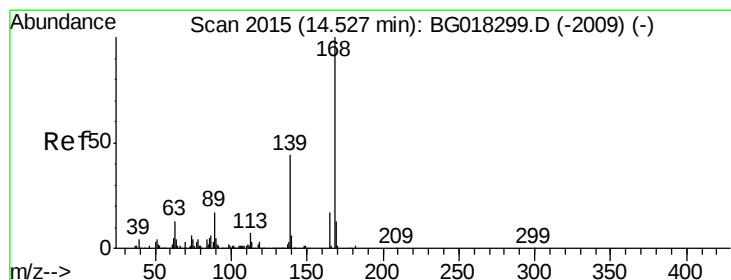
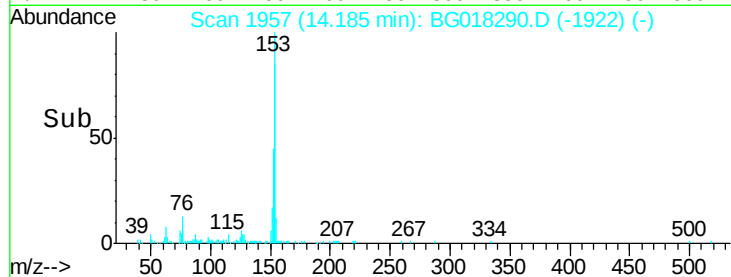
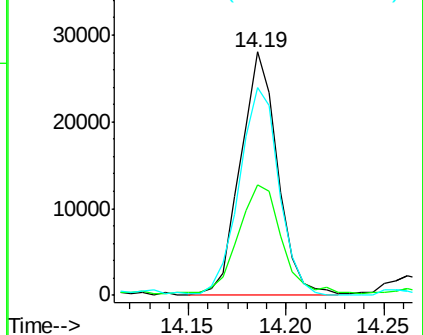
154 85.5 77.4 116.2



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

Dibenzofuran

Concen: 2.80 ng/ul

RT: 14.53 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BG018290.D

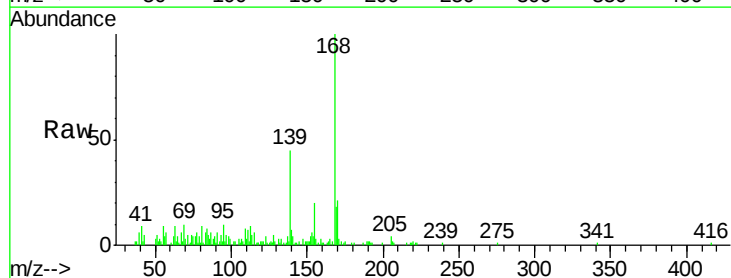
Acq: 6 Aug 2015 2:41

Tgt Ion:168 Resp: 28722

Ion Ratio Lower Upper

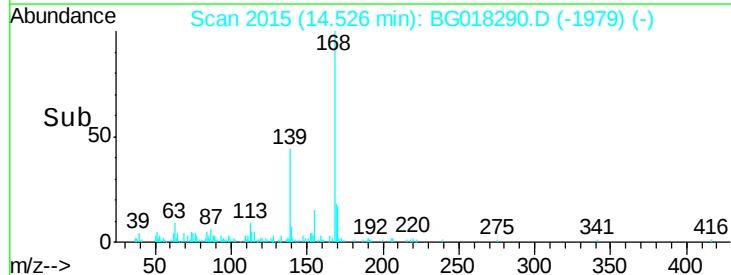
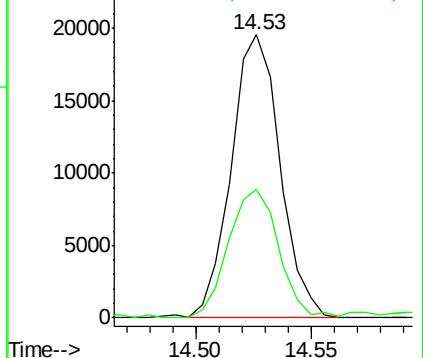
168 100

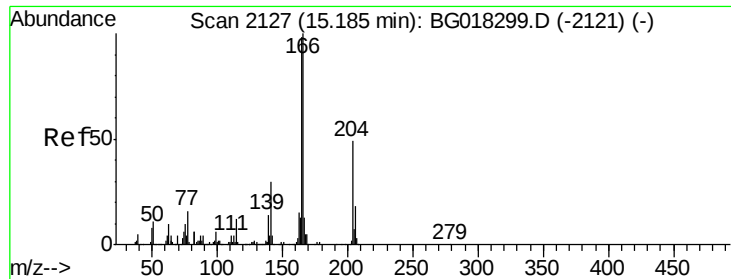
139 45.2 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

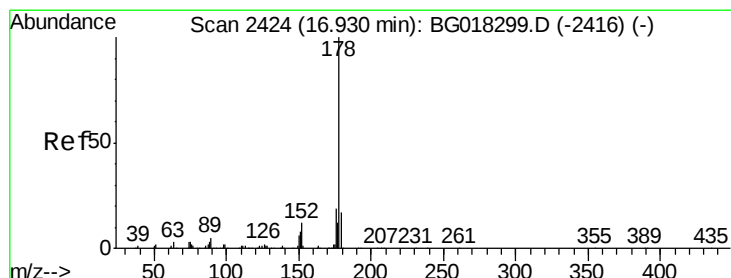
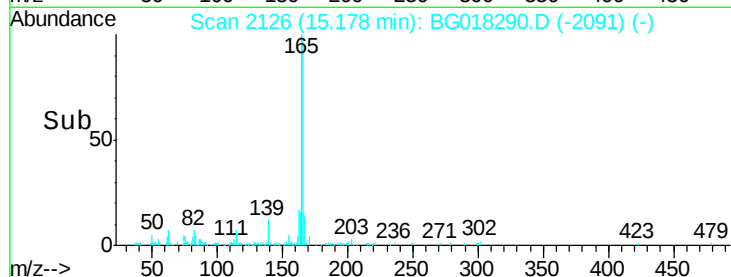
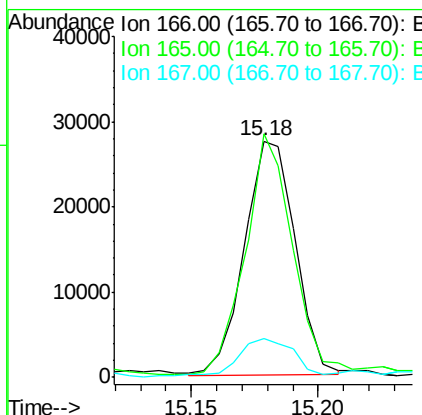
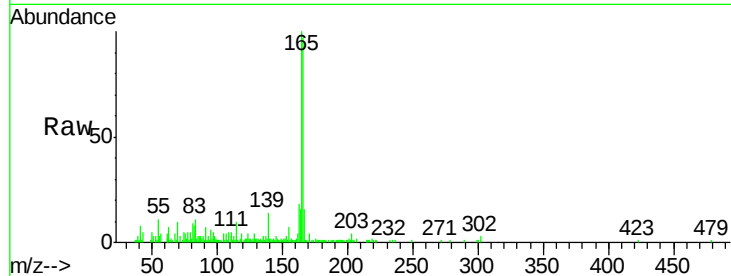




#59
Fluorene
 Concen: 4.25 ng/ul
 RT: 15.18 min Scan# 2126
 Delta R.T. 0.00 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

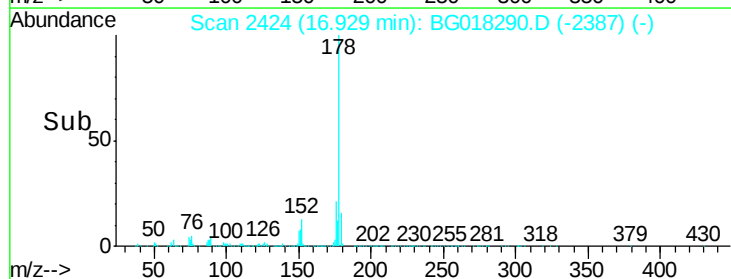
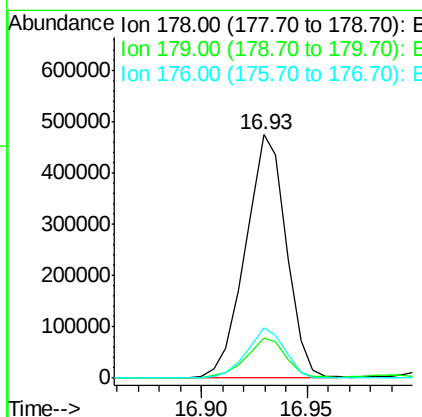
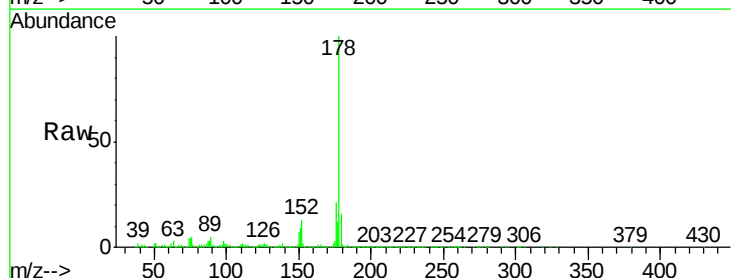
Instrument :
 BNA_G
 ClientSampleId :
 C02F5RE

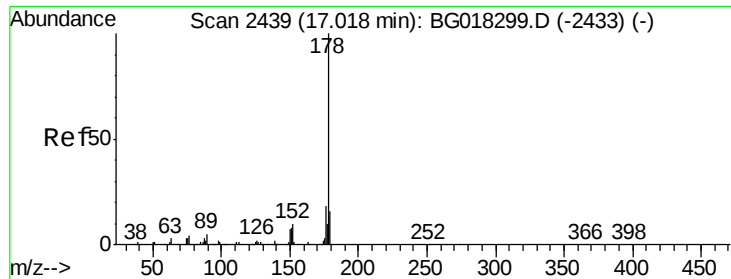
Tot Ion:166 Resp: 38307
 Ion Ratio Lower Upper
 166 100
 165 102.9 72.4 108.6
 167 16.5 11.4 17.0



#70
Phenanthrene
 Concen: 68.61 ng/ul
 RT: 16.93 min Scan# 2424
 Delta R.T. 0.02 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

Tgt Ion:178 Resp: 634033
 Ion Ratio Lower Upper
 178 100
 179 16.3 12.2 18.4
 176 20.7 14.5 21.7

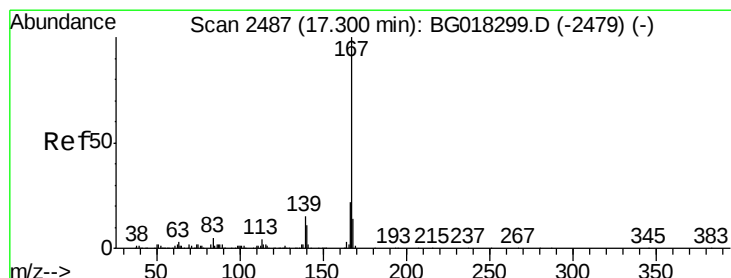
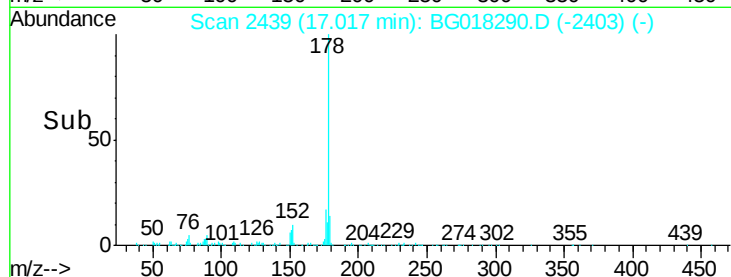
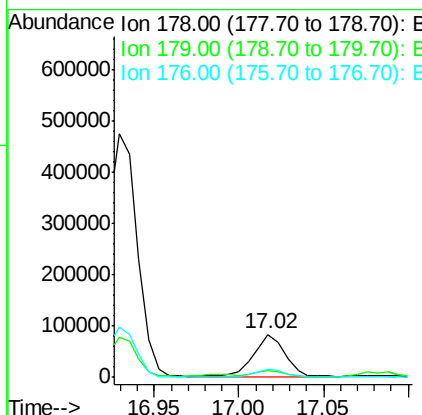
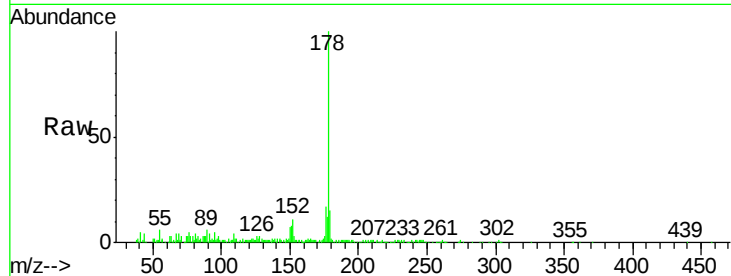




#72
 Anthracene
 Concen: 11.83 ng/ul
 RT: 17.02 min Scan# 2439
 Delta R.T. 0.01 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

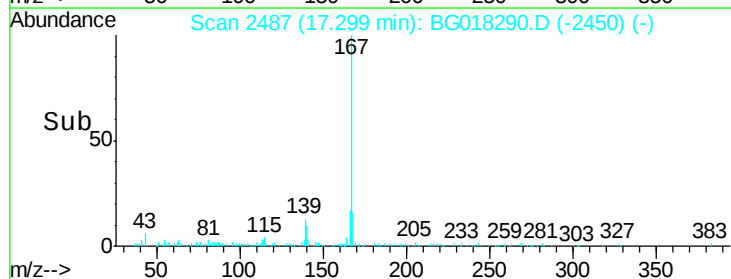
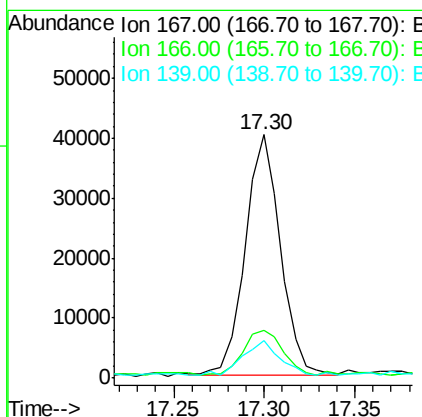
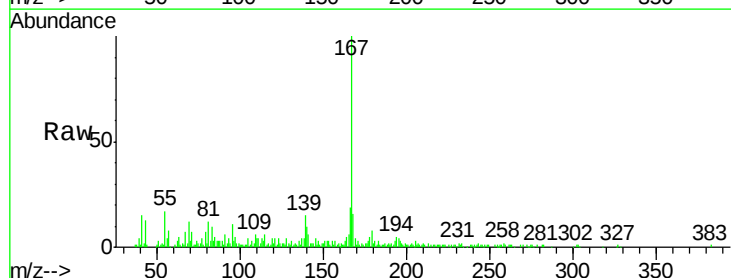
Instrument :
 BNA_G
 ClientSampleId :
 C02F5RE

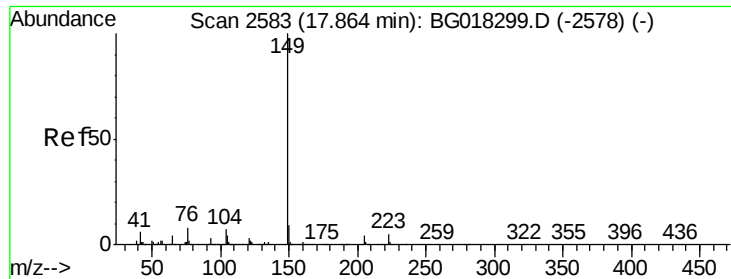
Tot Ion:178 Resp: 109072
 Ion Ratio Lower Upper
 178 100
 179 15.2 12.2 18.4
 176 17.5 15.3 22.9



#75
 Carbazole
 Concen: 6.90 ng/ul
 RT: 17.30 min Scan# 2487
 Delta R.T. 0.02 min
 Lab File: BG018290.D
 Acq: 6 Aug 2015 2:41

Tgt Ion:167 Resp: 53715
 Ion Ratio Lower Upper
 167 100
 166 19.4 17.8 26.8
 139 15.4 10.6 16.0

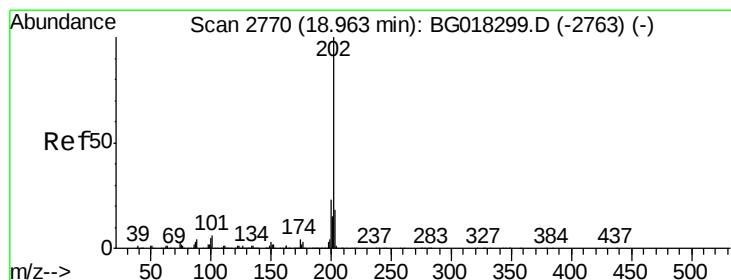
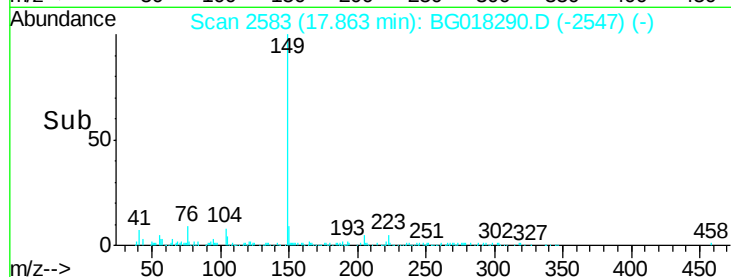
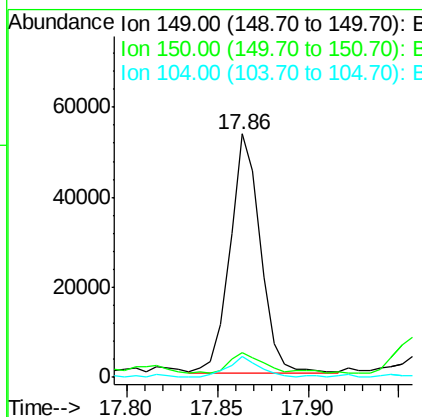
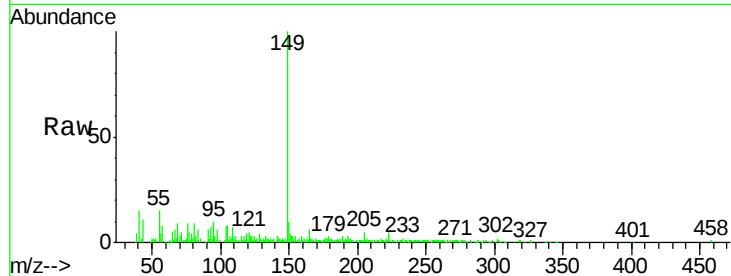




#76
Di-n-butylphthalate
Concen: 5.65 ng/ul
RT: 17.86 min Scan# 2583
Delta R.T. 0.01 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

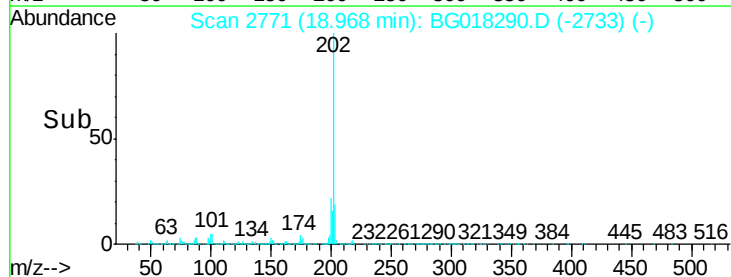
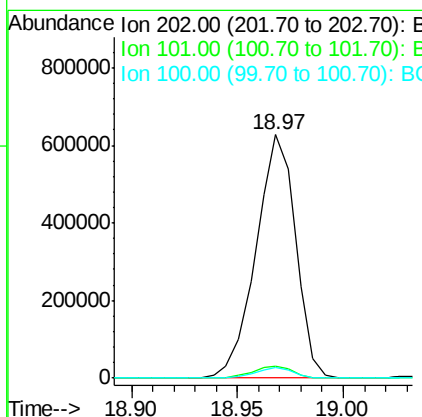
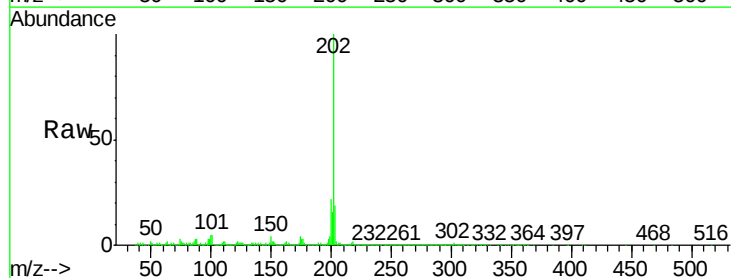
Instrument :
BNA_G
ClientSampleId :
C02F5RE

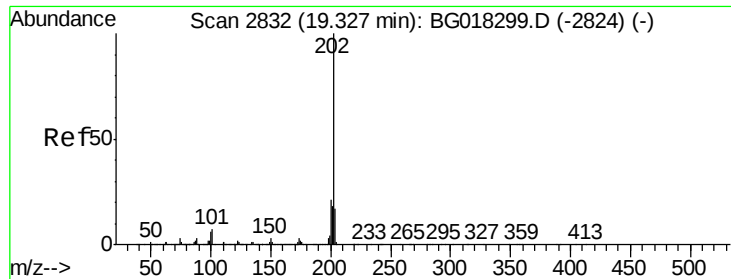
Tot Ion:149 Resp: 61690
Ion Ratio Lower Upper
149 100
150 10.1 7.4 11.2
104 8.4 5.5 8.3#



#77
Fluoranthene
Concen: 79.34 ng/ul
RT: 18.97 min Scan# 2771
Delta R.T. 0.02 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

Tgt Ion:202 Resp: 813246
Ion Ratio Lower Upper
202 100
101 5.1 6.2 9.2#
100 4.6 4.6 6.8

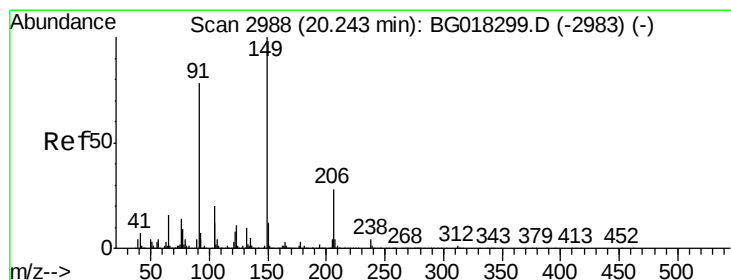
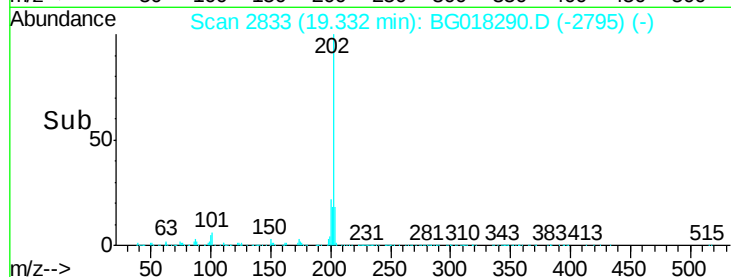
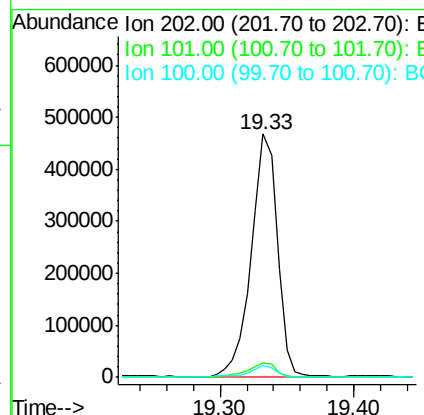
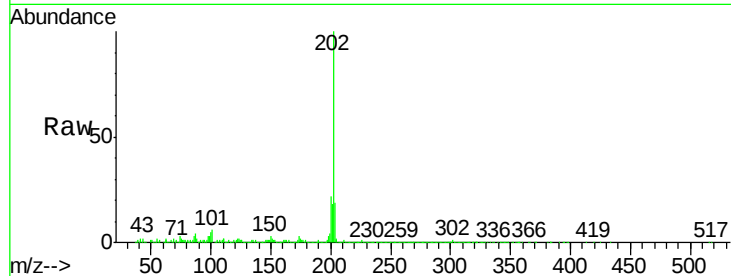




#80
Pvrene
Concen: 56.29 ng/ul
RT: 19.33 min Scan# 2833
Delta R.T. 0.02 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

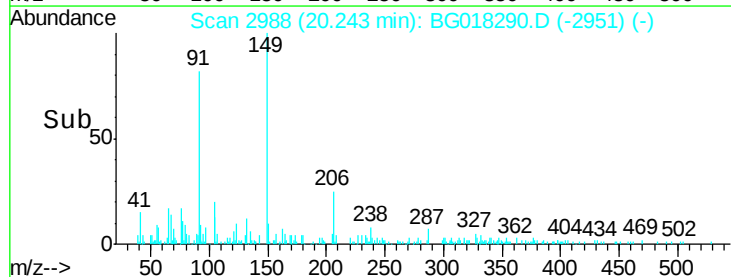
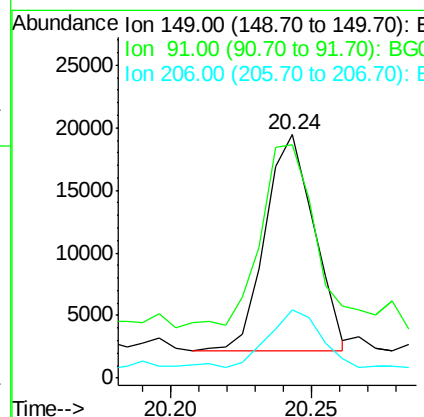
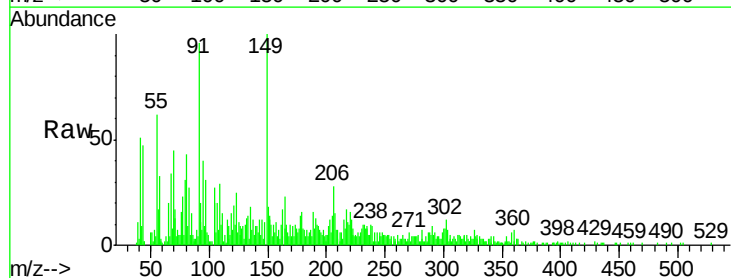
Instrument :
BNA_G
ClientSampleId :
C02F5RE

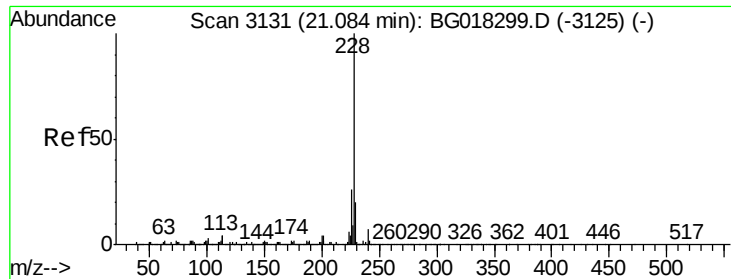
Tot Ion	Ratio	Lower	Upper
202	100		
101	6.2	6.2	9.2
100	5.1	4.6	7.0



#81
Butylbenzylphthalate
Concen: 4.79 ng/ul
RT: 20.24 min Scan# 2988
Delta R.T. 0.02 min
Lab File: BG018290.D
Acq: 6 Aug 2015 2:41

Tgt Ion	Ratio	Lower	Upper
149	100		
91	96.1	58.2	87.2#
206	27.9	19.9	29.9





#83

Benzo(a)anthracene

Concen: 43.62 ng/ul

RT: 21.09 min Scan# 3132

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

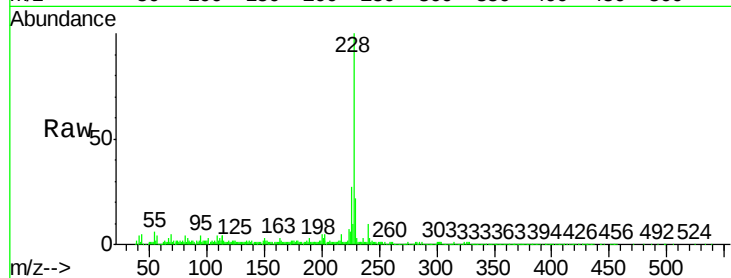
Tot Ion:228 Resp: 369211

Ion Ratio Lower Upper

228 100

229 22.1 16.3 24.5

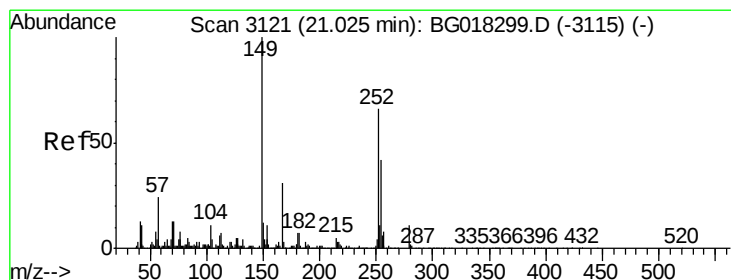
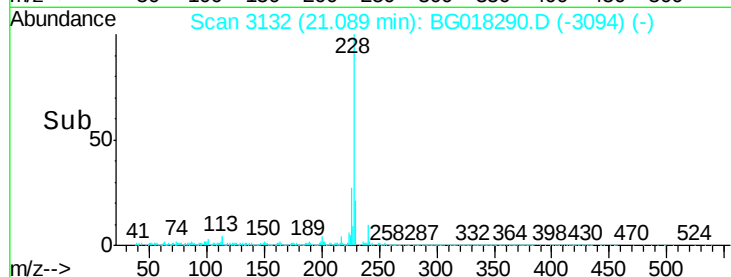
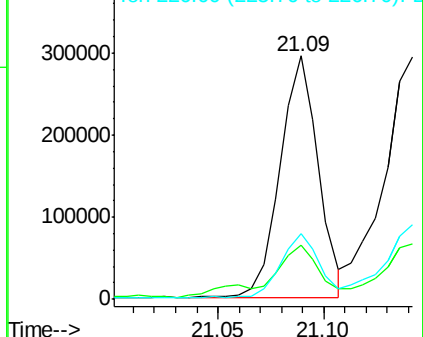
226 26.8 21.2 31.8



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 27.30 ng/ul

RT: 21.02 min Scan# 3121

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

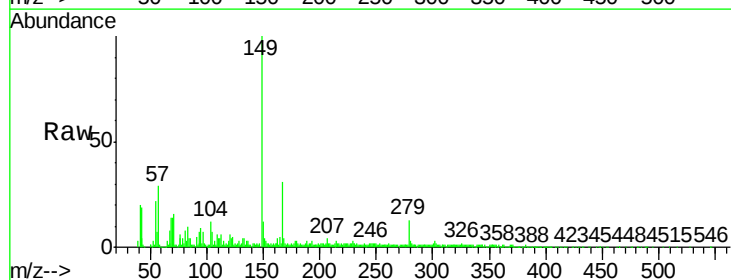
Tgt Ion:149 Resp: 142086

Ion Ratio Lower Upper

149 100

167 30.8 26.4 39.6

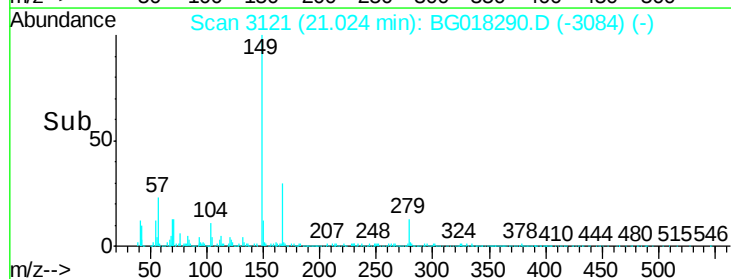
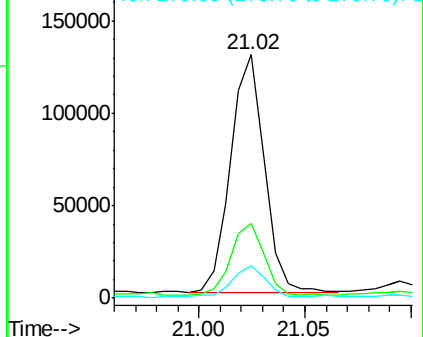
279 13.3 8.6 12.8#

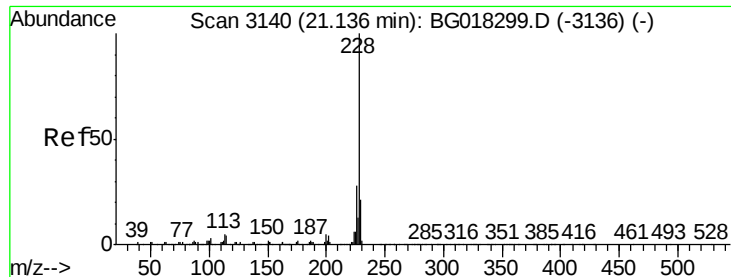


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 54.59 ng/ul

RT: 21.14 min Scan# 3141

Delta R.T. 0.02 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

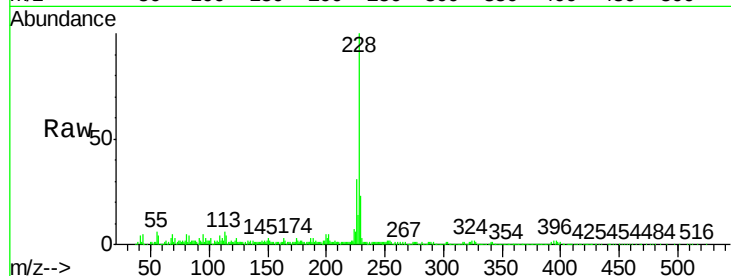
Tot Ion:228 Resp: 415088

Ion Ratio Lower Upper

228 100

226 30.7 23.0 34.6

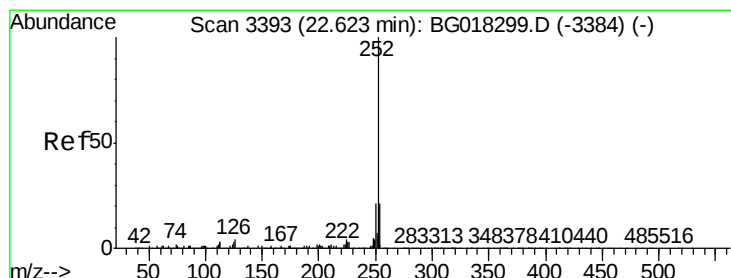
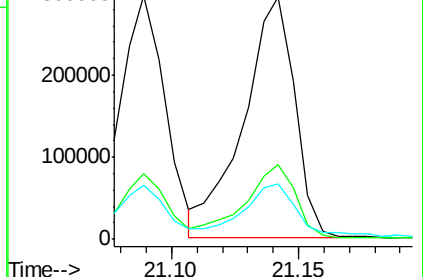
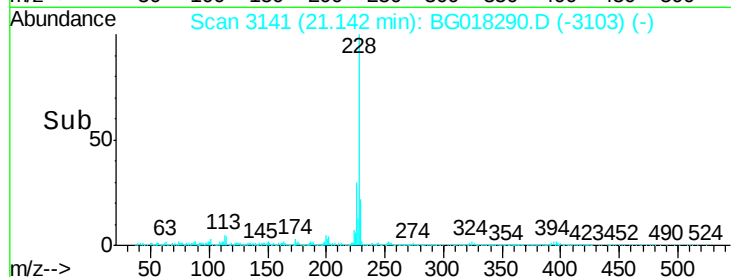
229 22.8 15.9 23.9



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: 52.99 ng/ul

RT: 22.63 min Scan# 3395

Delta R.T. 0.04 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

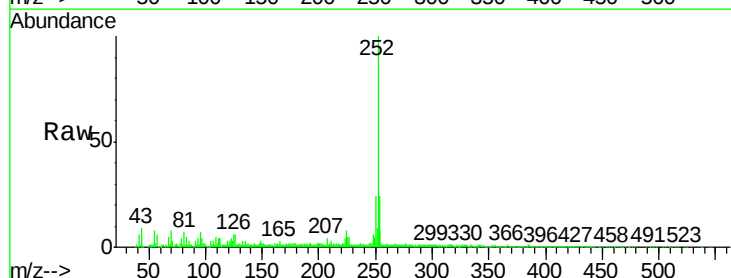
Tgt Ion:252 Resp: 548269

Ion Ratio Lower Upper

252 100

253 24.1 18.1 27.1

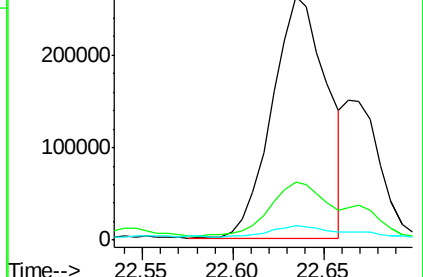
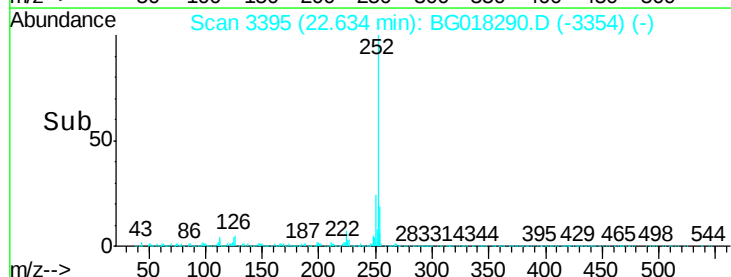
125 5.8 3.1 4.7#

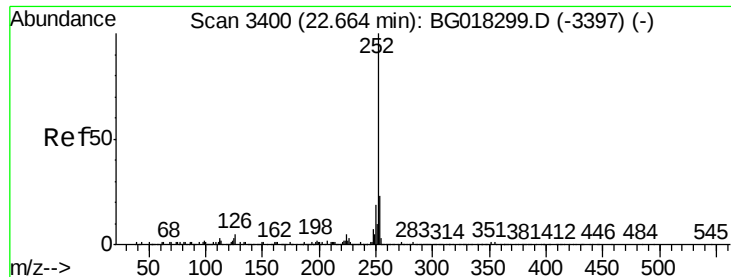


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 21.03 ng/ul m

RT: 22.66 min Scan# 3400

Delta R.T. 0.03 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

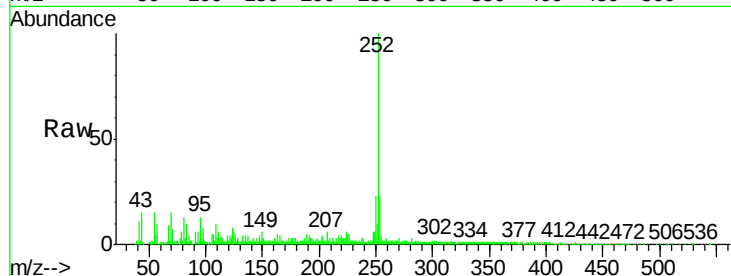
Tot Ion:252 Resp: 208595

Ion Ratio Lower Upper

252 100

253 23.4 16.4 24.6

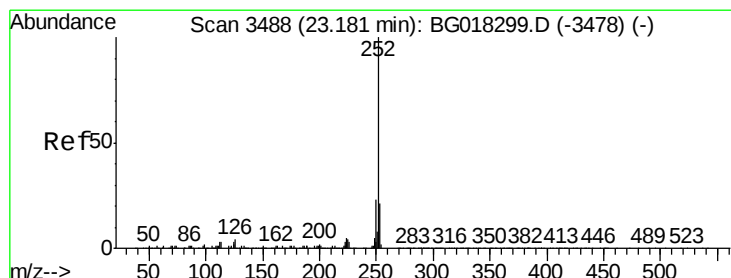
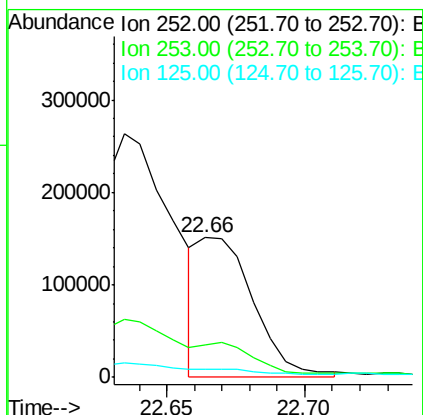
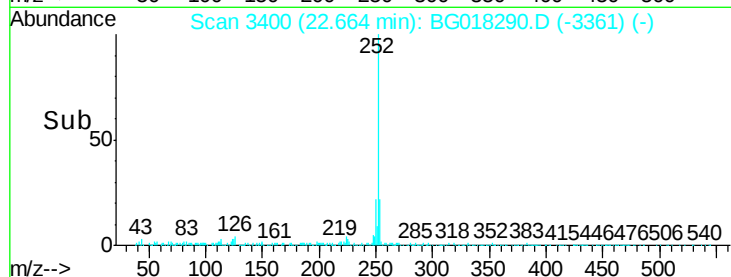
125 5.8 3.4 5.2#



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



#91

Benzo(a)pyrene

Concen: 40.42 ng/ul

RT: 23.19 min Scan# 3490

Delta R.T. 0.05 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

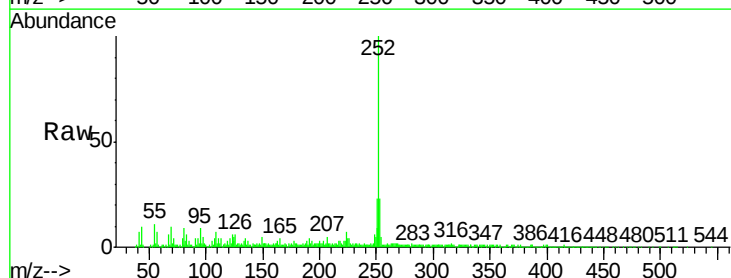
Tgt Ion:252 Resp: 365106

Ion Ratio Lower Upper

252 100

253 23.3 18.9 28.3

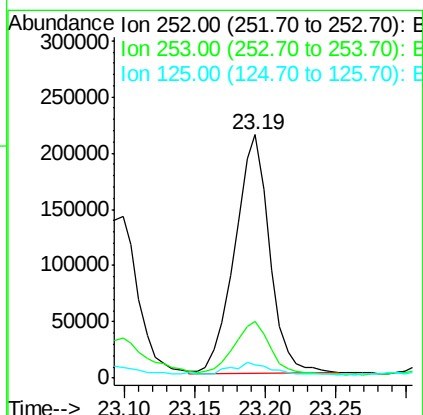
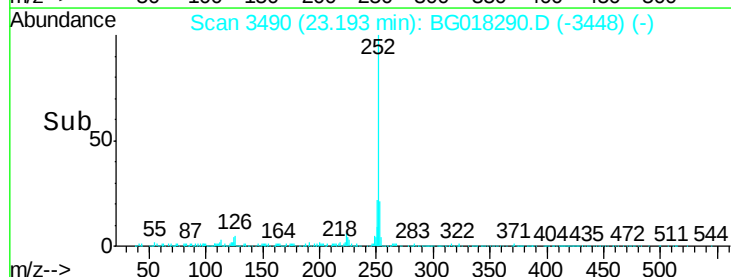
125 5.4 3.2 4.8#

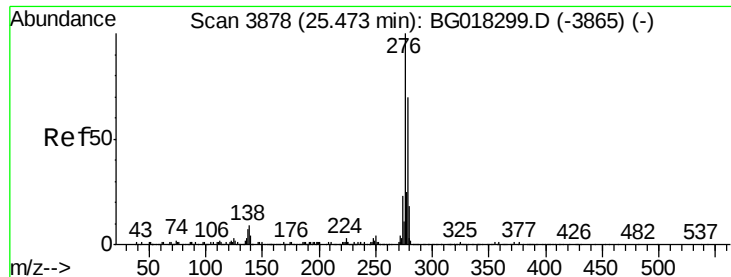


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 17.38 ng/ul

RT: 25.48 min Scan# 3880

Delta R.T. 0.07 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

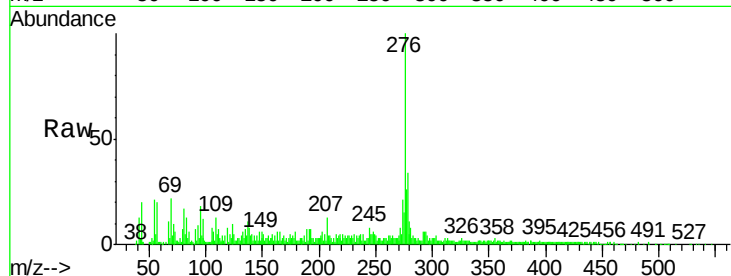
Tot Ion:276 Resp: 194278

Ion Ratio Lower Upper

276 100

138 8.3 8.2 12.4

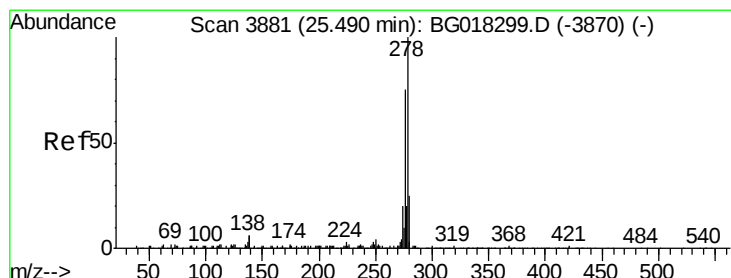
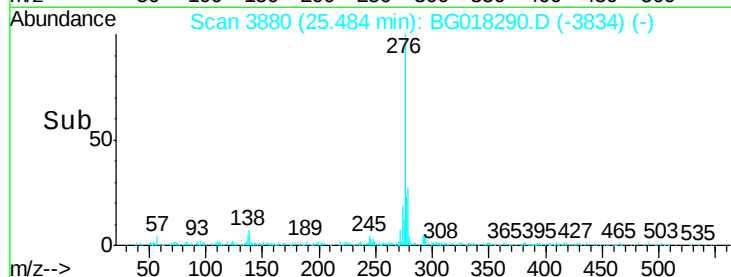
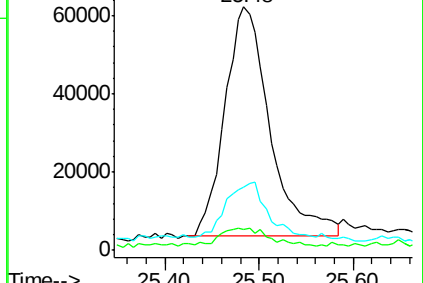
277 26.0 20.1 30.1



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: 5.31 ng/ul

RT: 25.48 min Scan# 3880

Delta R.T. 0.06 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

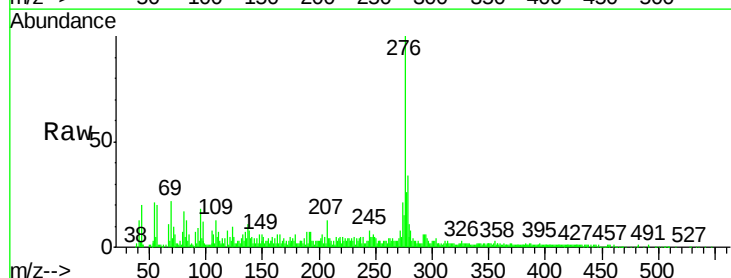
Tgt Ion:278 Resp: 52115

Ion Ratio Lower Upper

278 100

139 13.0 5.8 8.8#

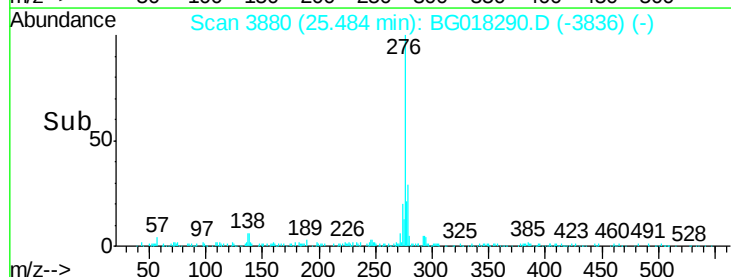
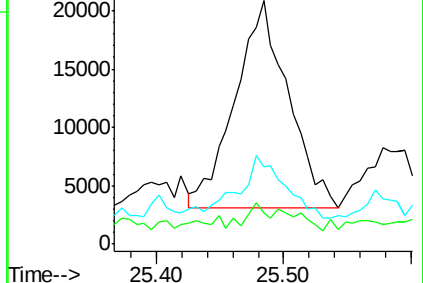
279 31.9 19.8 29.6#

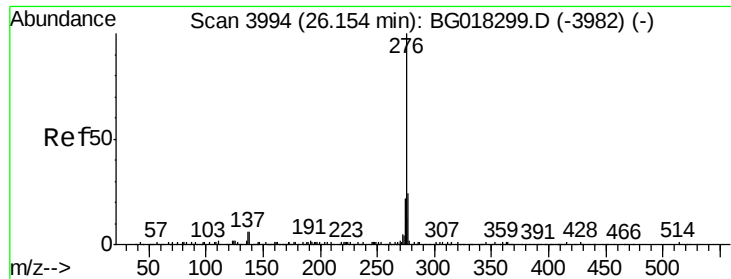


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(a,h,i)perylene

Concen: 16.82 ng/ul

RT: 26.16 min Scan# 3995

Delta R.T. 0.08 min

Lab File: BG018290.D

Acq: 6 Aug 2015 2:41

Instrument :

BNA_G

ClientSampleId :

C02F5RE

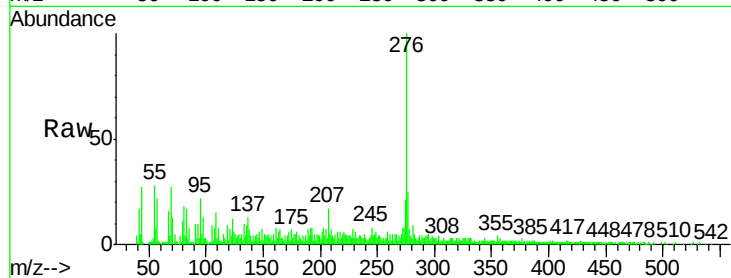
Tot Ion:276 Resp: 152573

Ion Ratio Lower Upper

276 100

138 7.1 6.0 9.0

277 25.0 21.1 31.7



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

