

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG100415\  
 Data File : BG019007.D  
 Acq On : 4 Oct 2015 16:32  
 Operator : UM/NP  
 Sample : G3851-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0GG6

Quant Time: Oct 05 01:19:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG100415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Oct 05 01:17:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.05  | 152  | 33942    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 141704   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.67 | 164  | 89036    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.41 | 188  | 217057   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.67 | 240  | 277088   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.89 | 264  | 262625   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.51  | 96  | 1338   | 1.78  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.20  | 99  | 20208  | 6.92  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.37  | 67  | 67372  | 35.62 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.58  | 132 | 57675  | 26.30 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 25881  | 11.25 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.21  | 128 | 38639  | 36.23 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.93  | 143 | 41217  | 37.87 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.46 | 165 | 66052  | 30.01 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 286    | 0.11  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.08 | 166 | 258073 | 36.86 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.37 | 160 | 315709 | 36.38 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.84 | 143 | 10444  | 7.50  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.66 | 176 | 233680 | 36.84 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.76 | 200 | 39653  | 34.38 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.51 | 188 | 357291 | 34.79 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.79 | 212 | 442154 | 34.17 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.68 | 264 | 493076 | 36.73 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |      |      |        | Qvalue |
|--------------------------------|-------|-----|------|------|--------|--------|
| 8) Bis(2-Chloroethyl)ether     | 7.47  | 93  | 344  | 0.15 | ng/ul# | 62     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.74  | 45  | 146  | 0.03 | ng/ul# | 74     |
| 15) N-Nitroso-di-n-propylamine | 8.74  | 70  | 631  | 0.33 | ng/ul# | 1      |
| 17) Hexachloroethane           | 9.12  | 117 | 366  | 0.40 | ng/ul# | 1      |
| 20) Nitrobenzene               | 9.21  | 77  | 114  | 0.04 | ng/ul# | 1      |
| 21) Isophorone                 | 9.92  | 82  | 3247 | 0.62 | ng/ul# | 71     |
| 28) Naphthalene                | 10.90 | 128 | 382  | 0.05 | ng/ul# | 67     |
| 57) Diethylphthalate           | 15.49 | 149 | 507  | 0.07 | ng/ul# | 59     |
| 59) Fluorene                   | 15.66 | 166 | 597  | 0.08 | ng/ul# | 6      |
| 61) 4-Nitroaniline             | 15.76 | 138 | 150  | 0.10 | ng/ul# | 1      |
| 64) 4,6-Dinitro-2-methylphenol | 15.76 | 198 | 131  | 0.11 | ng/ul# | 1      |
| 65) N-Nitrosodiphenylamine     | 15.77 | 169 | 242  | 0.04 | ng/ul# | 23     |
| 76) Di-n-butylphthalate        | 18.38 | 149 | 1046 | 0.08 | ng/ul# | 79     |
| 77) Fluoranthene               | 19.41 | 202 | 124  | 0.01 | ng/ul# | 73     |
| 80) Pyrene                     | 19.79 | 202 | 724  | 0.04 | ng/ul# | 1      |
| 81) Butylbenzylphthalate       | 20.71 | 149 | 239  | 0.04 | ng/ul# | 22     |
| 83) Benzo(a)anthracene         | 21.67 | 228 | 848  | 0.05 | ng/ul# | 62     |
| 84) Bis(2-ethylhexyl)phthalate | 21.57 | 149 | 950  | 0.10 | ng/ul# | 51     |
| 85) Chrysene                   | 21.67 | 228 | 848  | 0.06 | ng/ul# | 59     |
| 87) Di-n-octyl phthalate       | 22.81 | 149 | 207  | 0.01 | ng/ul  | 100    |
| 91) Benzo(a)pyrene             | 24.67 | 252 | 1281 | 0.09 | ng/ul# | 82     |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C0GG6

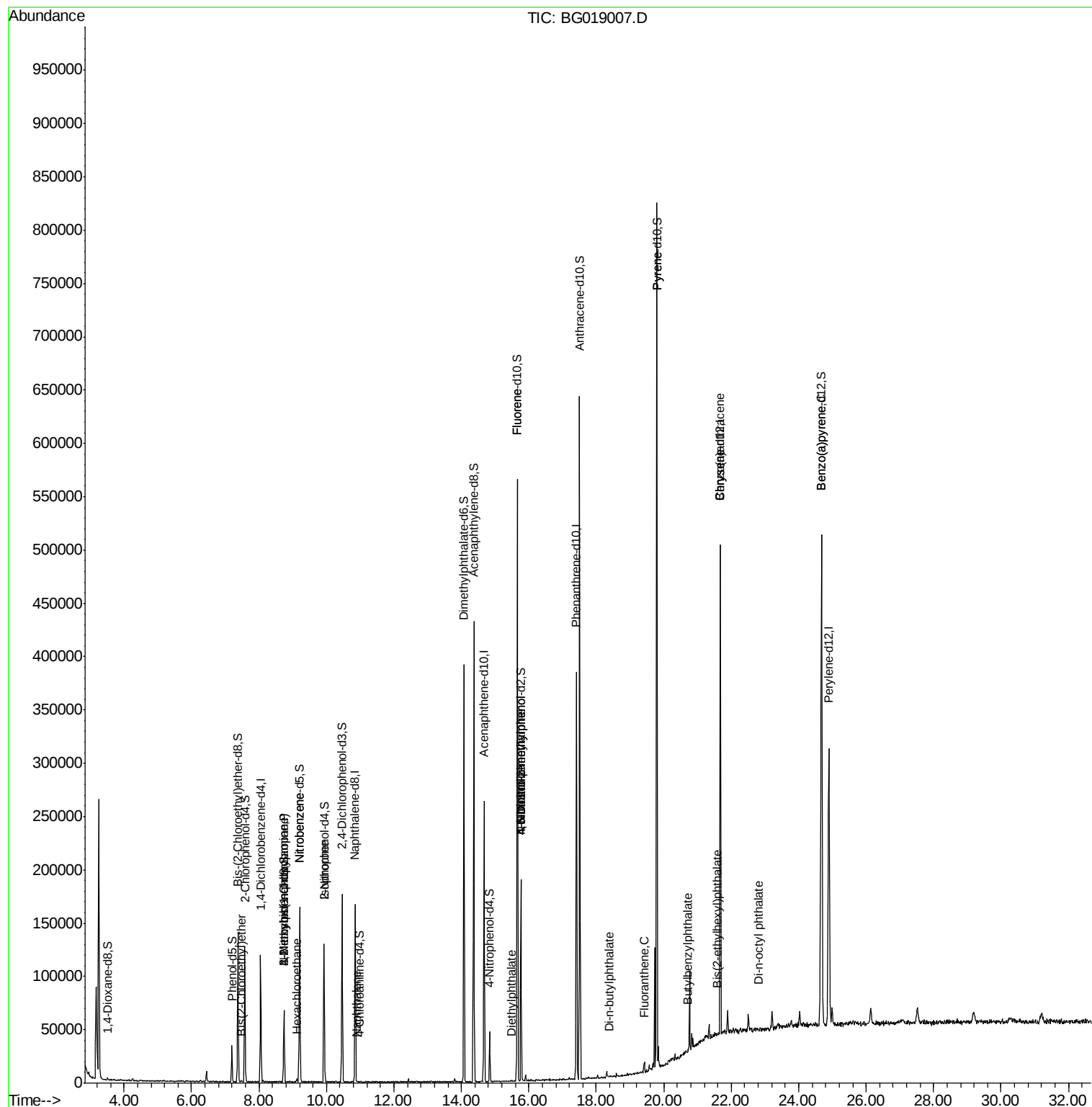
Quant Time: Oct 05 01:19:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG100415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Oct 05 01:17:08 2015  
Response via : Initial Calibration

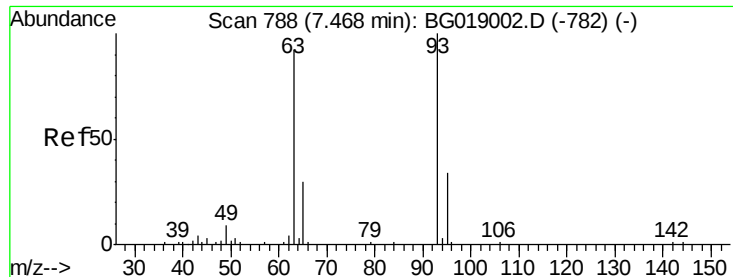
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Quant Title : SVOA CALIBRATION  
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Response via : Initial Calibration





#8

Bis(2-Chloroethyl)ether

Concen: 0.15 ng/ul

RT: 7.47 min Scan# 788

Delta R.T. -0.00 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

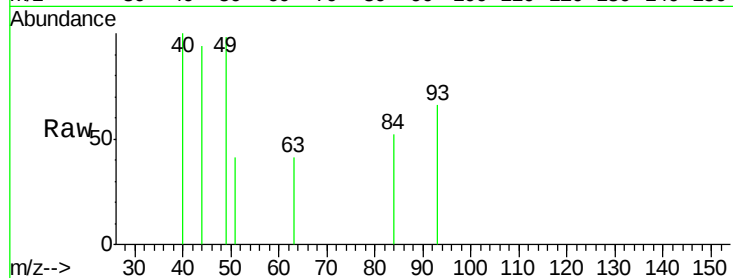
Tgt Ion: 93 Resp: 344

Ion Ratio Lower Upper

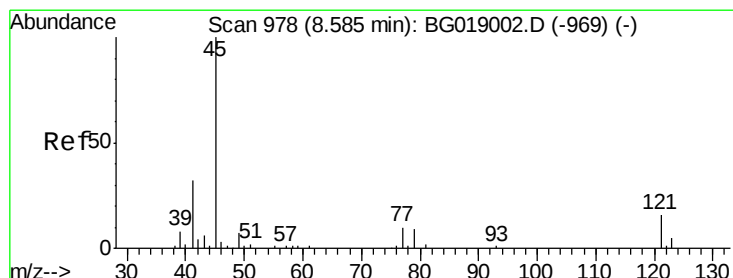
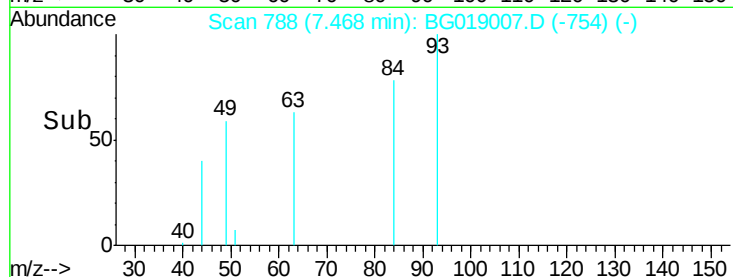
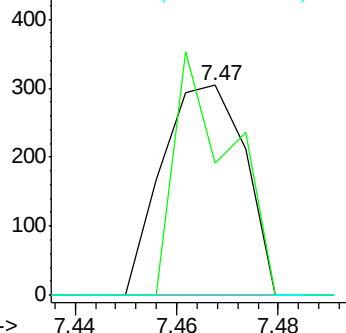
93 100

63 62.8 73.2 109.8#

95 0.0 27.0 40.6#



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC



#12

2,2'-oxybis(1-Chloropropane)

Concen: 0.03 ng/ul

RT: 8.74 min Scan# 1004

Delta R.T. 0.15 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

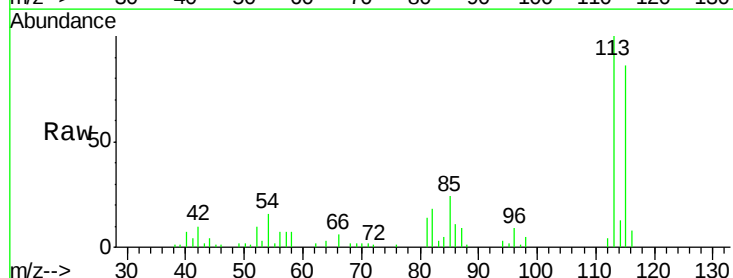
Tgt Ion: 45 Resp: 146

Ion Ratio Lower Upper

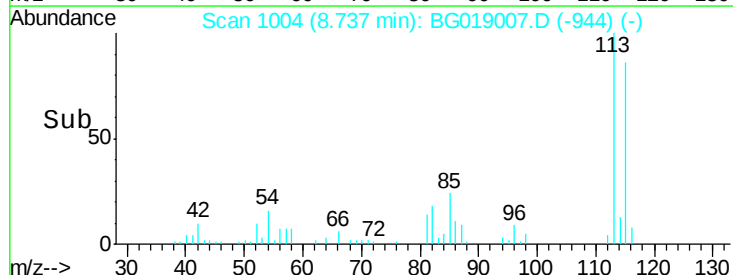
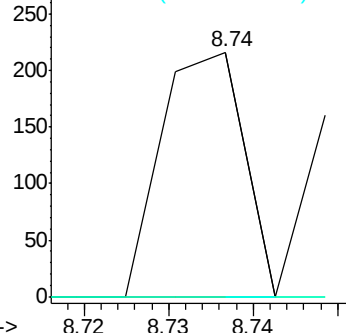
45 100

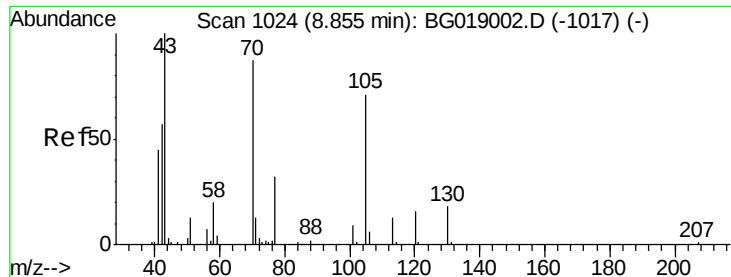
77 0.0 8.2 12.2#

79 0.0 7.4 11.0#



Abundance Ion 45.00 (44.70 to 45.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC  
Ion 79.00 (78.70 to 79.70): BGC





#15

N-Nitroso-di-n-propylamine

Concen: 0.33 ng/ul

RT: 8.74 min Scan# 1005

Delta R.T. -0.11 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

Tgt Ion: 70 Resp: 631

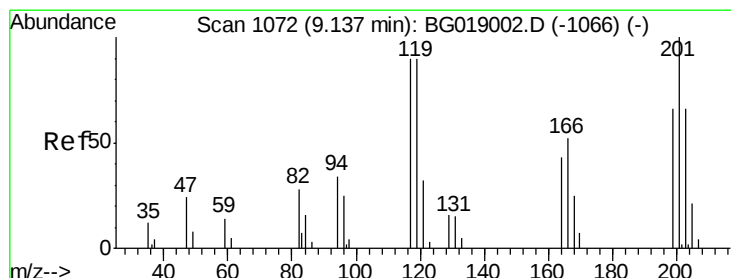
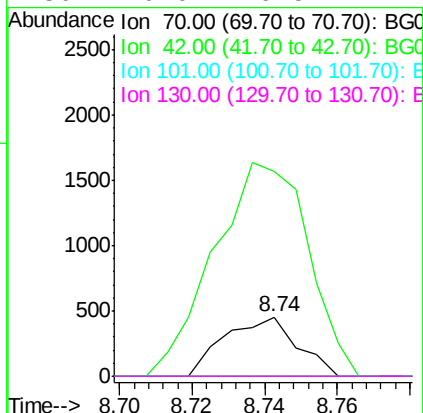
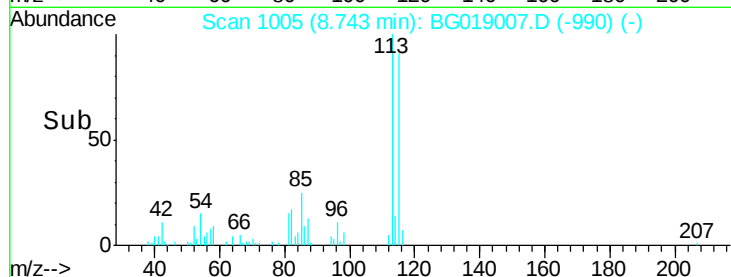
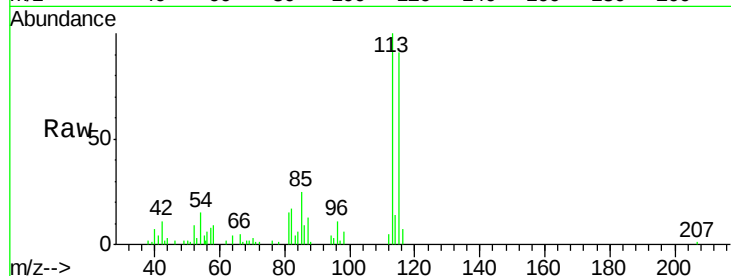
Ion Ratio Lower Upper

70 100

42 346.4 53.6 80.4#

101 0.0 7.9 11.9#

130 0.0 16.5 24.7#



#17

Hexachloroethane

Concen: 0.40 ng/ul

RT: 9.12 min Scan# 1070

Delta R.T. -0.01 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

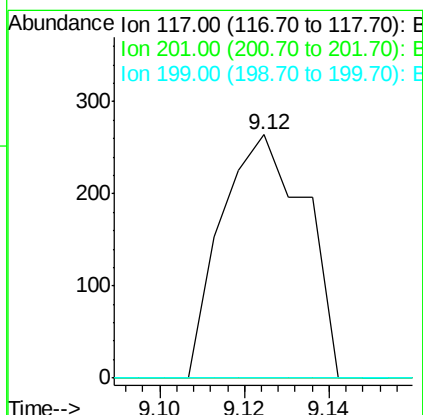
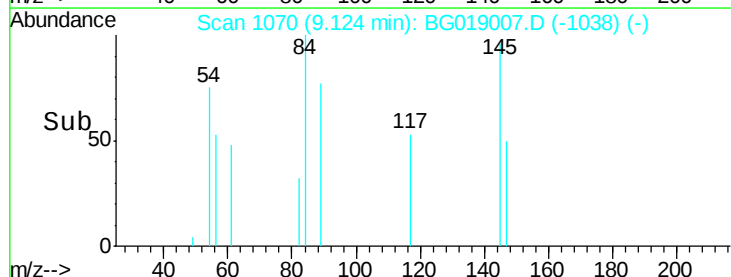
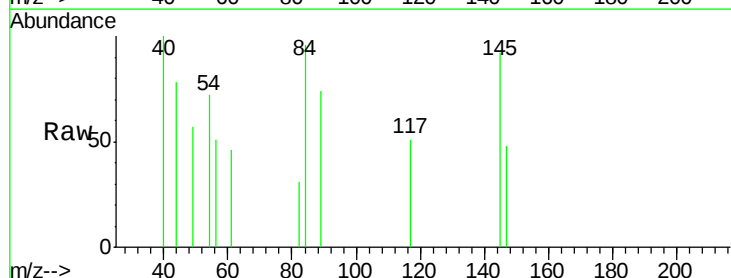
Tgt Ion: 117 Resp: 366

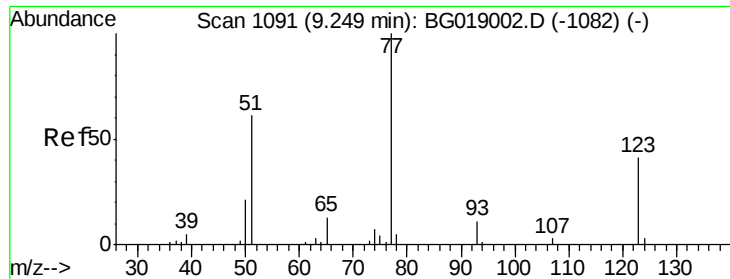
Ion Ratio Lower Upper

117 100

201 0.0 91.4 137.0#

199 0.0 58.7 88.1#

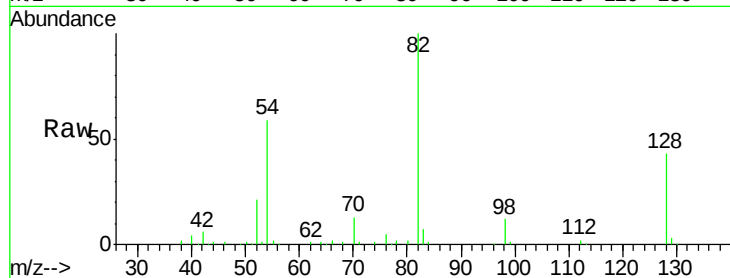




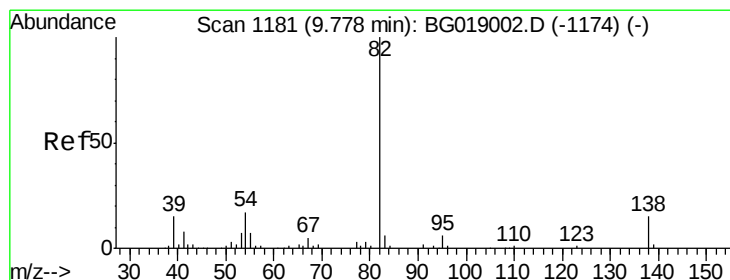
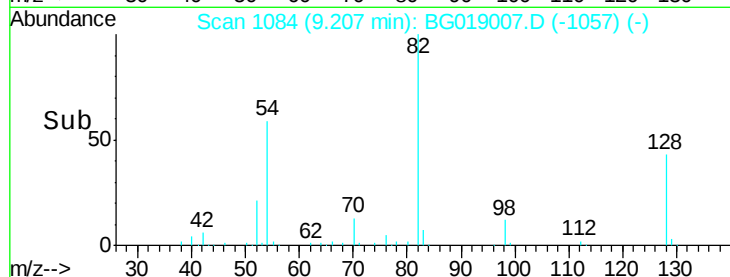
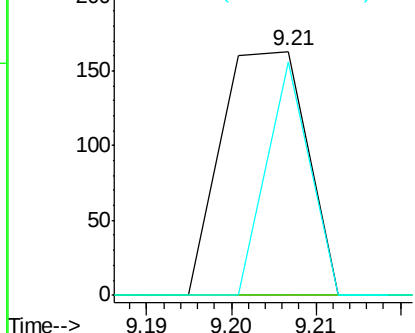
#20  
Nitrobenzene  
Concen: 0.04 ng/ul  
RT: 9.21 min Scan# 1084  
Delta R.T. -0.04 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
C0GG6

Tgt Ion: 77 Resp: 114  
Ion Ratio Lower Upper  
77 100  
123 0.0 32.6 48.8#  
65 95.7 10.6 15.8#

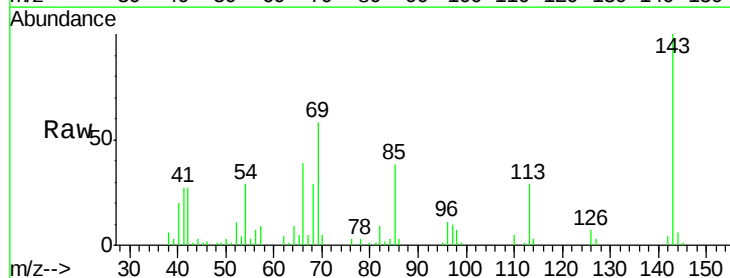


Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 123.00 (122.70 to 123.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC

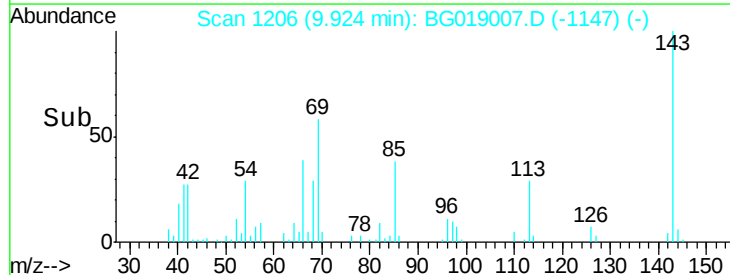
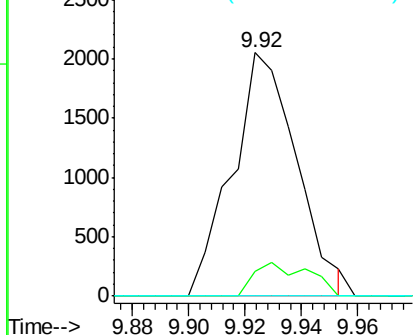


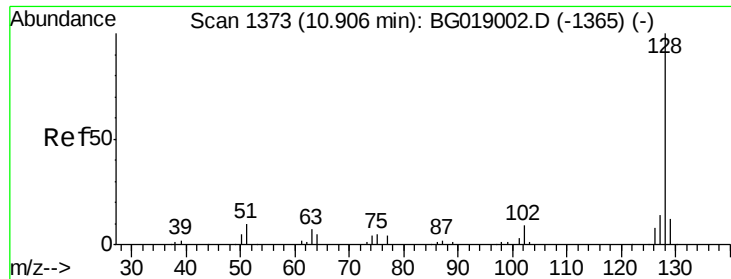
#21  
Isophorone  
Concen: 0.62 ng/ul  
RT: 9.92 min Scan# 1206  
Delta R.T. 0.15 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Tgt Ion: 82 Resp: 3247  
Ion Ratio Lower Upper  
82 100  
95 9.9 5.1 7.7#  
138 0.0 12.2 18.2#



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

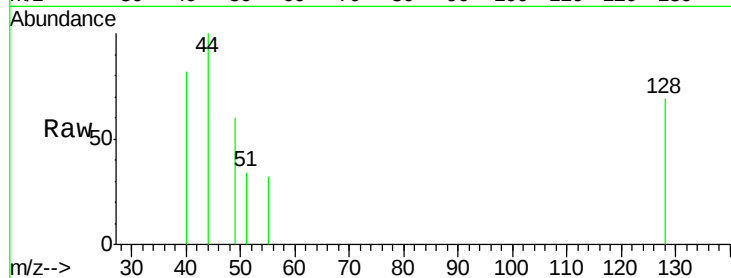




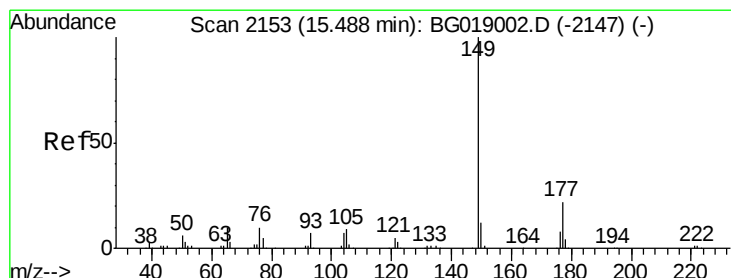
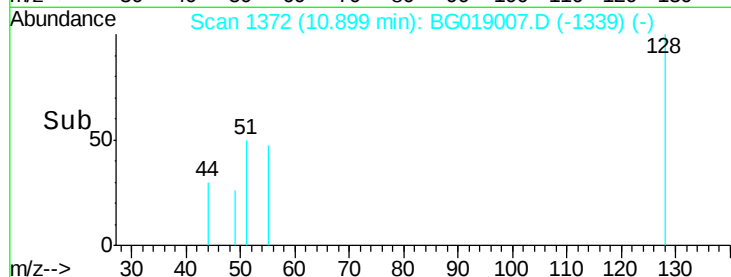
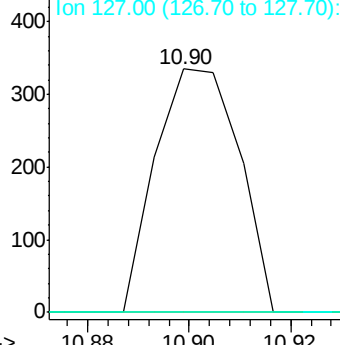
#28  
Naphthalene  
Concen: 0.05 ng/ul  
RT: 10.90 min Scan# 1372  
Delta R.T. -0.01 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
C0GG6

Tgt Ion:128 Resp: 382  
Ion Ratio Lower Upper  
128 100  
129 0.0 9.6 14.4#  
127 0.0 11.3 16.9#

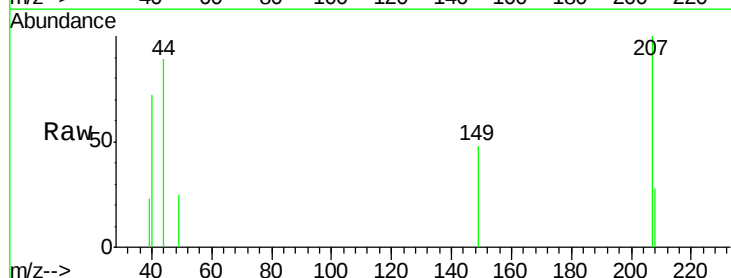


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

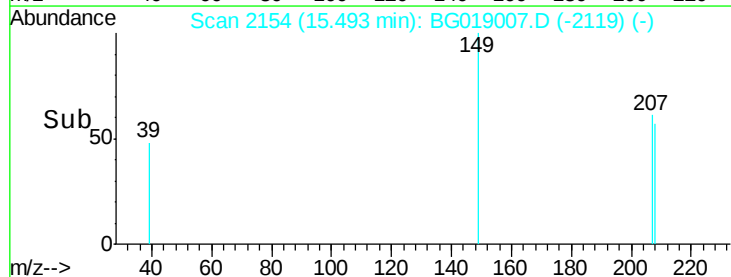
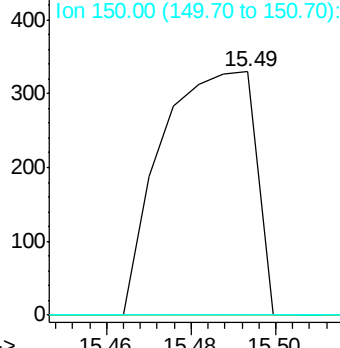


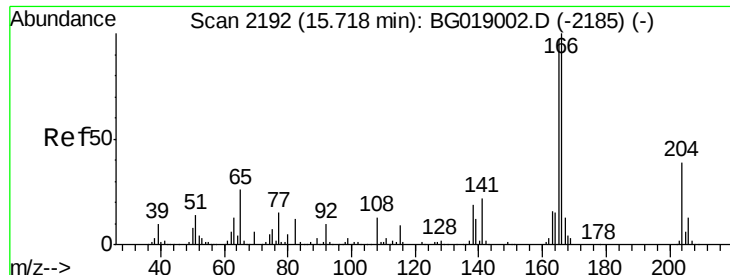
#57  
Diethylphthalate  
Concen: 0.07 ng/ul  
RT: 15.49 min Scan# 2154  
Delta R.T. 0.01 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Tgt Ion:149 Resp: 507  
Ion Ratio Lower Upper  
149 100  
177 0.0 17.4 26.0#  
150 0.0 10.0 15.0#



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E





#59

Fluorene

Concen: 0.08 ng/ul

RT: 15.66 min Scan# 2183

Delta R.T. -0.05 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

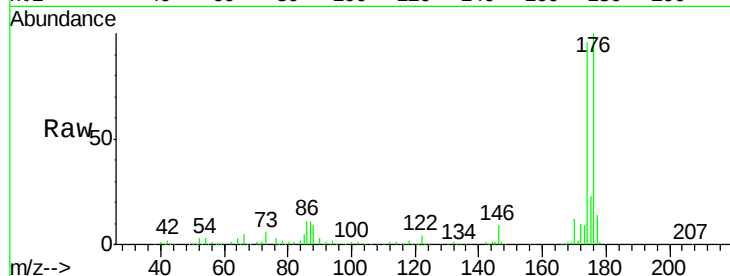
Tgt Ion:166 Resp: 597

Ion Ratio Lower Upper

166 100

165 0.0 77.7 116.5#

167 37.7 10.4 15.6#



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

15.66

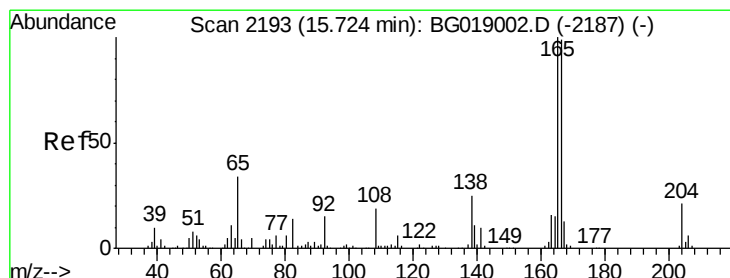
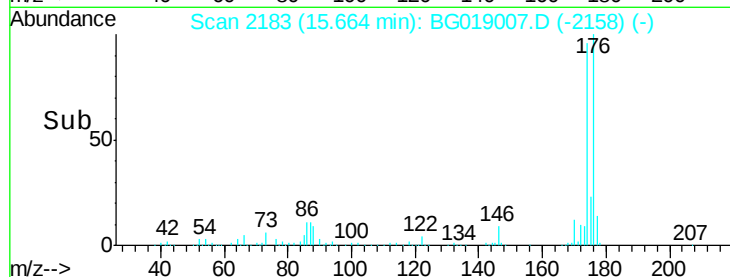
400

200

0

15.64 15.66 15.68

Time-->



#61

4-Nitroaniline

Concen: 0.10 ng/ul

RT: 15.76 min Scan# 2200

Delta R.T. 0.04 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

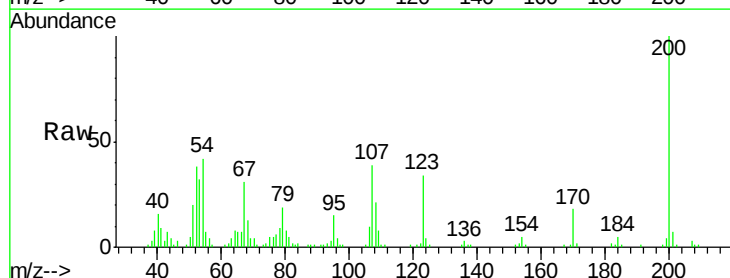
Tgt Ion:138 Resp: 150

Ion Ratio Lower Upper

138 100

92 110.9 47.4 71.2#

108 2593.9 62.8 94.2#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E

8000

6000

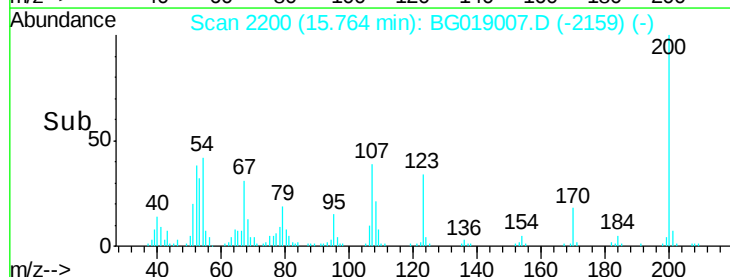
4000

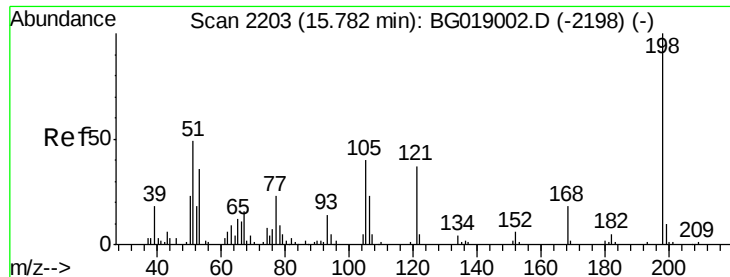
2000

0

15.75 15.76 15.77

Time-->





#64

4,6-Dinitro-2-methylphenol

Concen: 0.11 ng/ul

RT: 15.76 min Scan# 2200

Delta R.T. -0.02 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

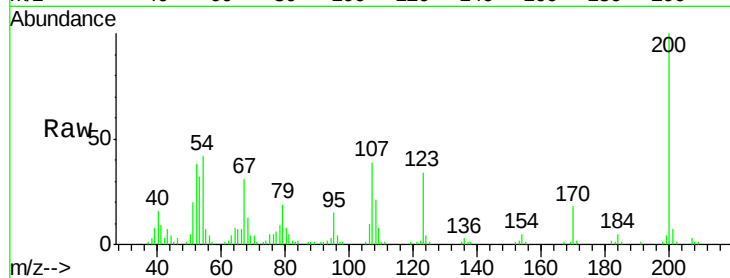
Tgt Ion:198 Resp: 131

Ion Ratio Lower Upper

198 100

182 248.9 4.3 6.5#

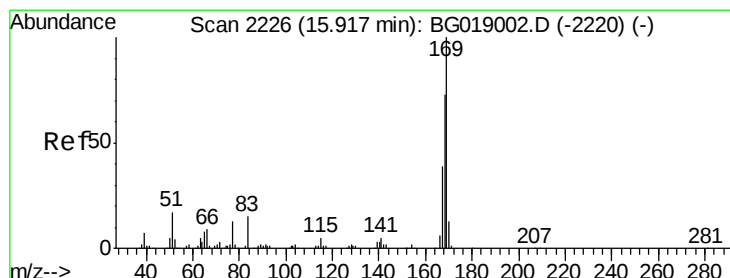
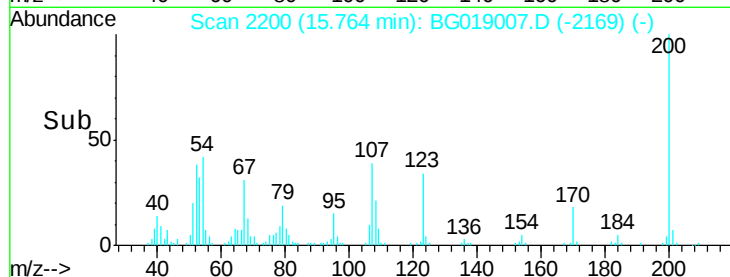
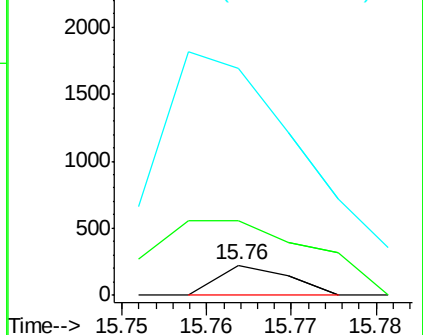
77 757.4 20.2 30.2#



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



#65

N-Nitrosodiphenylamine

Concen: 0.04 ng/ul

RT: 15.77 min Scan# 2201

Delta R.T. -0.15 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

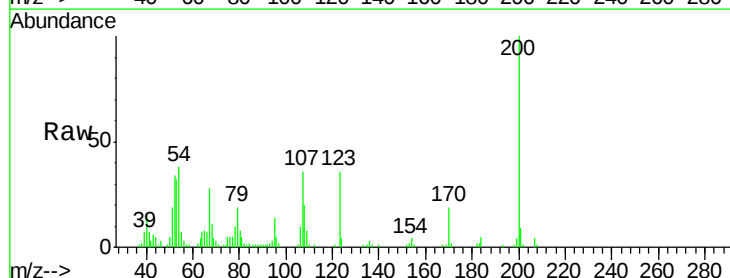
Tgt Ion:169 Resp: 242

Ion Ratio Lower Upper

169 100

168 0.0 58.2 87.4#

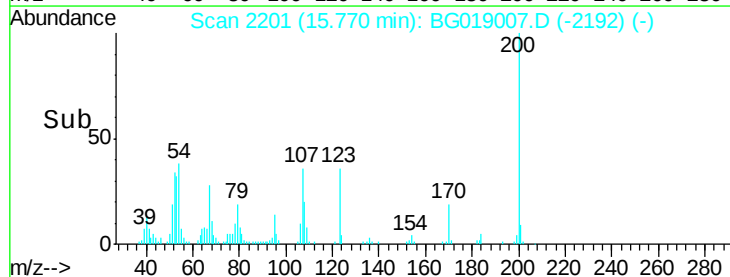
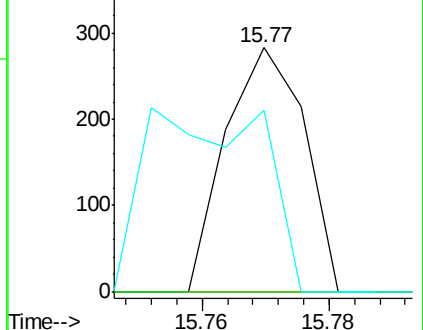
167 74.6 30.9 46.3#

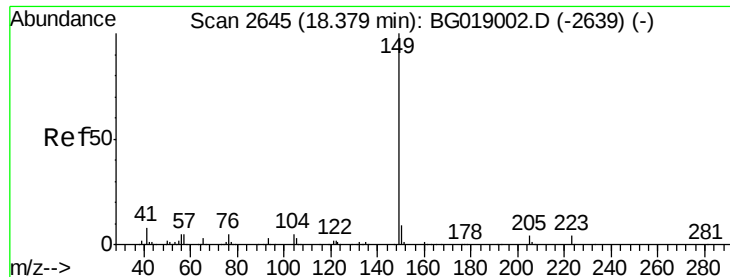


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

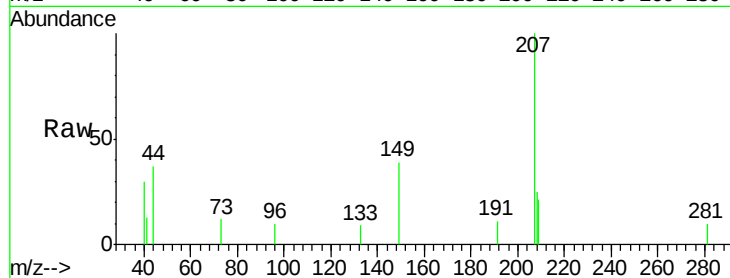




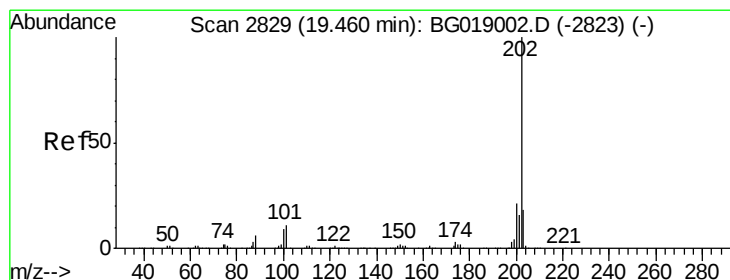
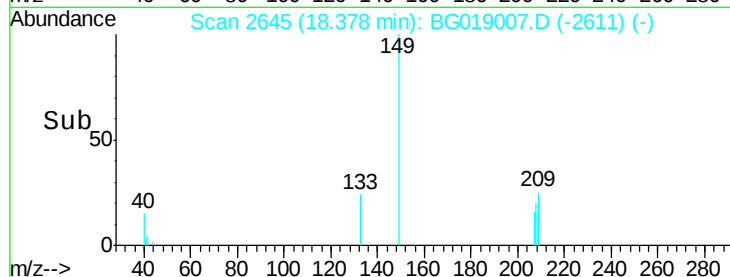
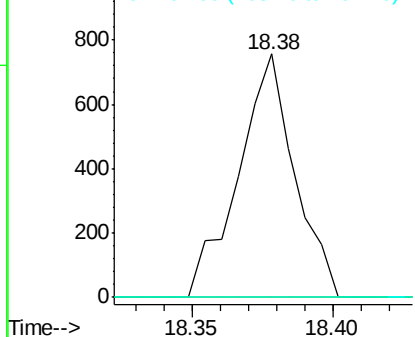
#76  
Di-n-butylphthalate  
Concen: 0.08 ng/ul  
RT: 18.38 min Scan# 2645  
Delta R.T. -0.00 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
C0GG6

Tgt Ion:149 Resp: 1046  
Ion Ratio Lower Upper  
149 100  
150 0.0 7.1 10.7#  
104 0.0 3.9 5.9#

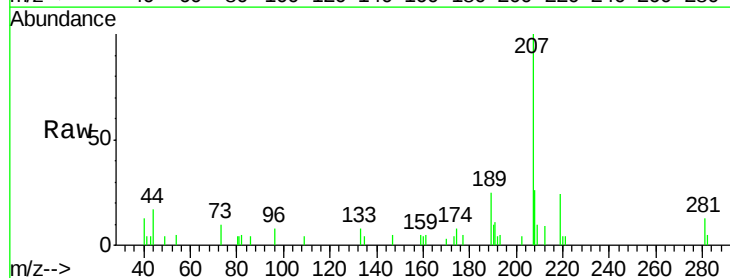


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E

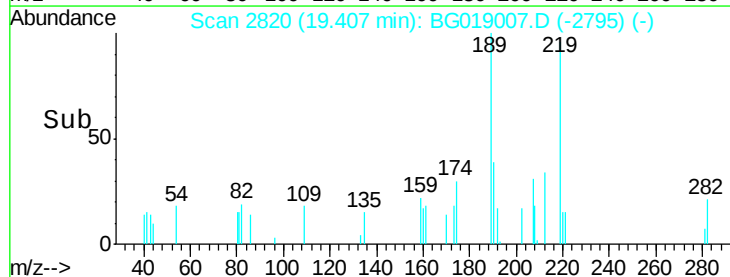
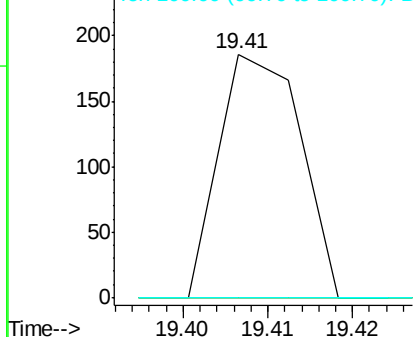


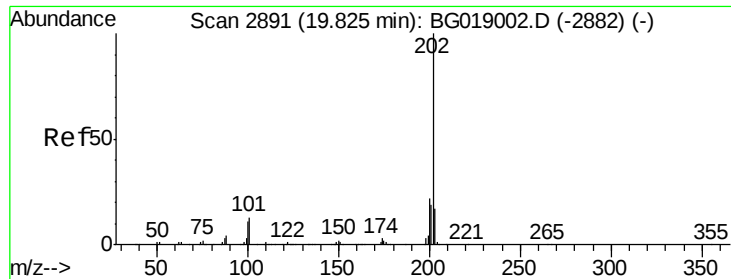
#77  
Fluoranthene  
Concen: 0.01 ng/ul  
RT: 19.41 min Scan# 2820  
Delta R.T. -0.05 min  
Lab File: BG019007.D  
Acq: 4 Oct 2015 16:32

Tgt Ion:202 Resp: 124  
Ion Ratio Lower Upper  
202 100  
101 0.0 9.0 13.4#  
100 0.0 6.9 10.3#



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

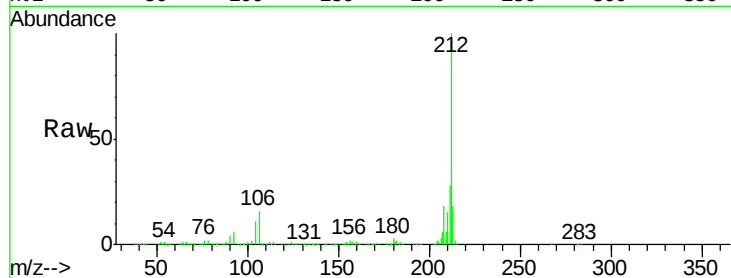




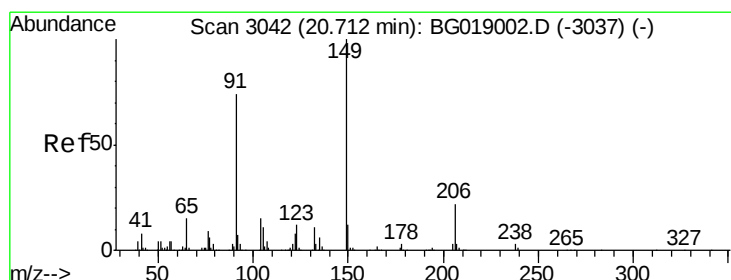
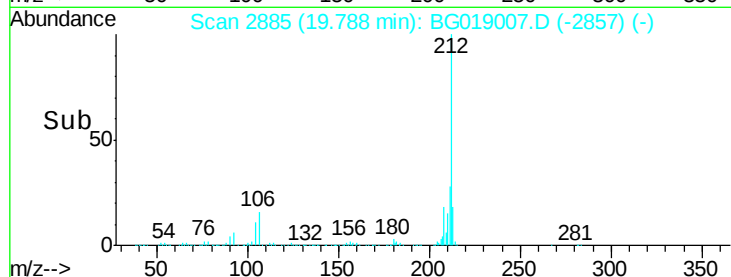
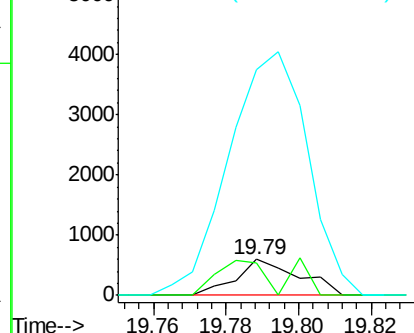
#80  
 Pyrene  
 Concen: 0.04 ng/ul  
 RT: 19.79 min Scan# 2885  
 Delta R.T. -0.04 min  
 Lab File: BG019007.D  
 Acq: 4 Oct 2015 16:32

Instrument :  
 BNA\_G  
 ClientSampled :  
 C0GG6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 89.2  | 10.2  | 15.2# |
| 100     | 622.8 | 8.5   | 12.7# |

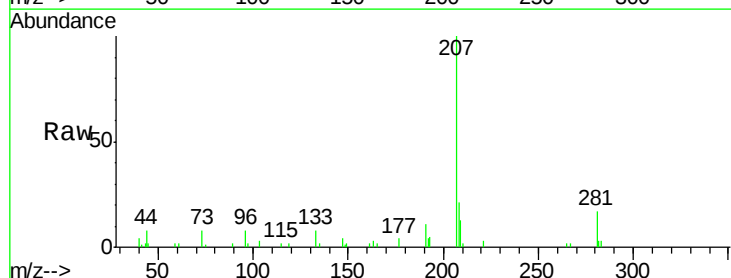


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): E

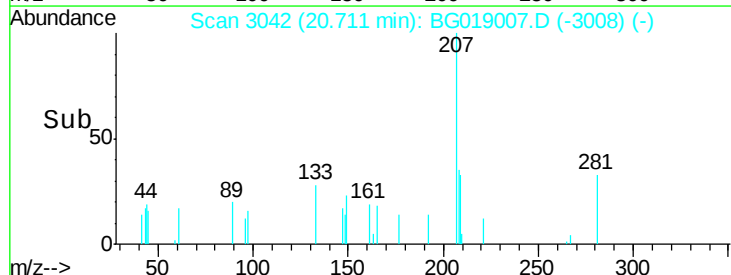
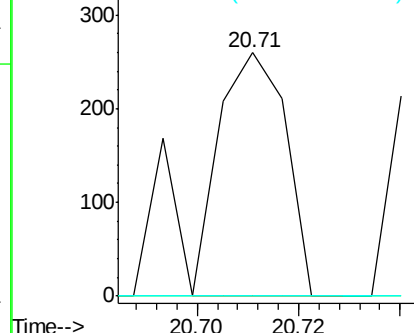


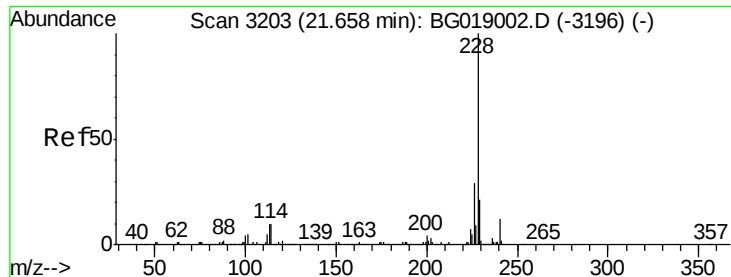
#81  
 Butylbenzylphthalate  
 Concen: 0.04 ng/ul  
 RT: 20.71 min Scan# 3042  
 Delta R.T. -0.00 min  
 Lab File: BG019007.D  
 Acq: 4 Oct 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 0.0   | 59.1  | 88.7# |
| 206     | 0.0   | 17.9  | 26.9# |



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 91.00 (90.70 to 91.70): BG  
 Ion 206.00 (205.70 to 206.70): E





#83

Benzo(a)anthracene

Concen: 0.05 ng/ul

RT: 21.67 min Scan# 3206

Delta R.T. 0.02 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

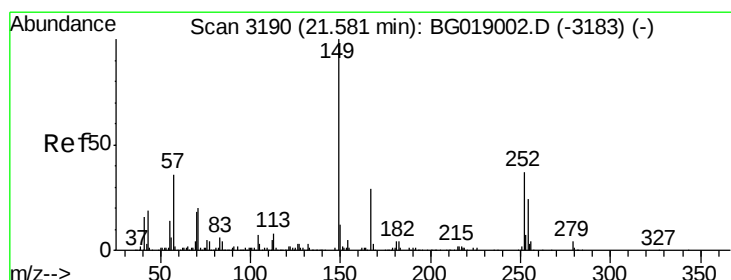
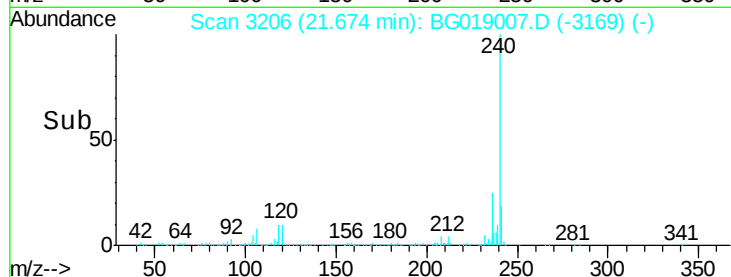
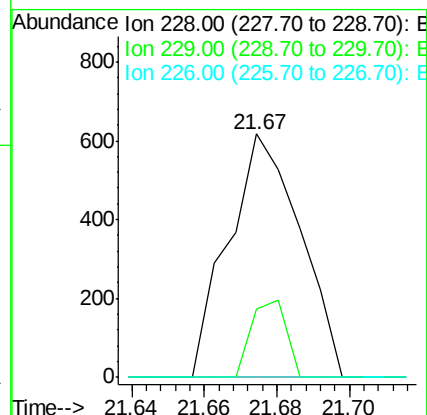
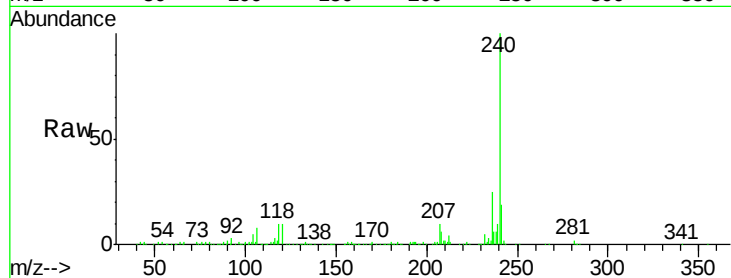
Tgt Ion:228 Resp: 848

Ion Ratio Lower Upper

228 100

229 28.2 16.6 24.8#

226 0.0 22.8 34.2#



#84

Bis(2-ethylhexyl)phthalate

Concen: 0.10 ng/ul

RT: 21.57 min Scan# 3189

Delta R.T. -0.01 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

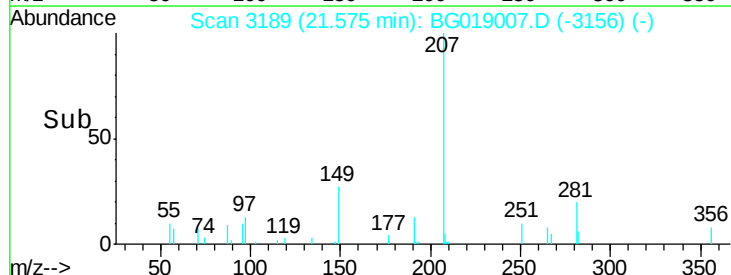
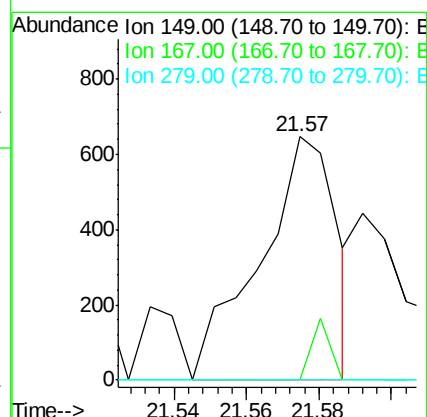
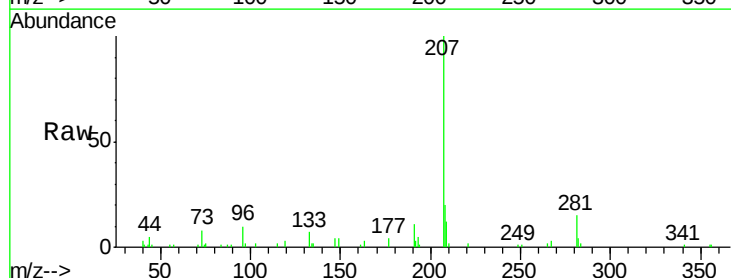
Tgt Ion:149 Resp: 950

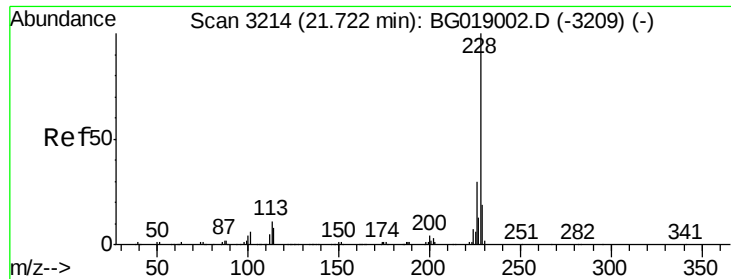
Ion Ratio Lower Upper

149 100

167 0.0 22.8 34.2#

279 0.0 3.3 4.9#





#85

Chrysene

Concen: 0.06 ng/ul

RT: 21.67 min Scan# 3206

Delta R.T. -0.05 min

Lab File: BG019007.D

Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6

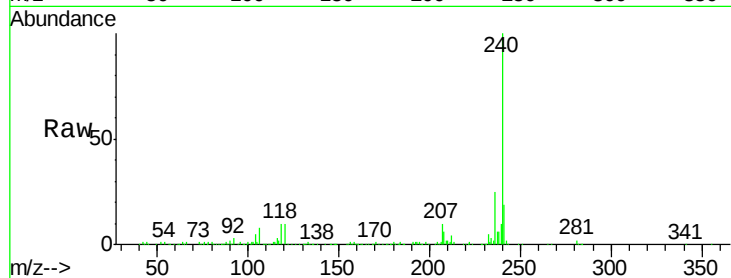
Tgt Ion:228 Resp: 848

Ion Ratio Lower Upper

228 100

226 0.0 24.2 36.2#

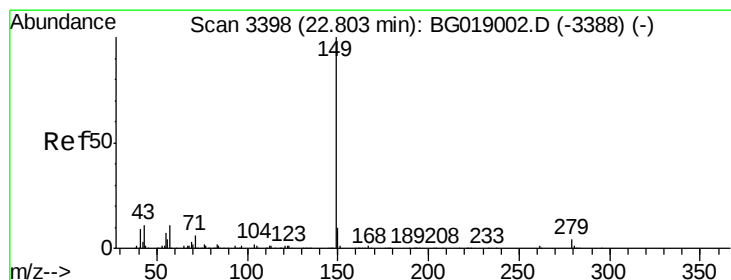
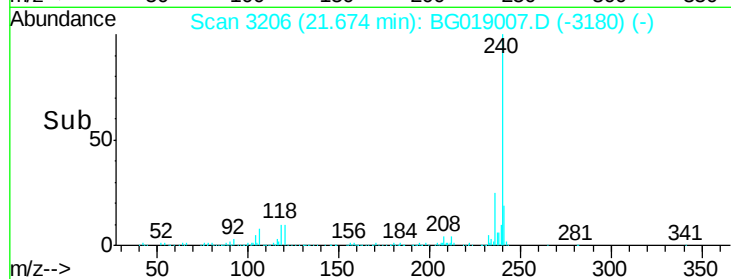
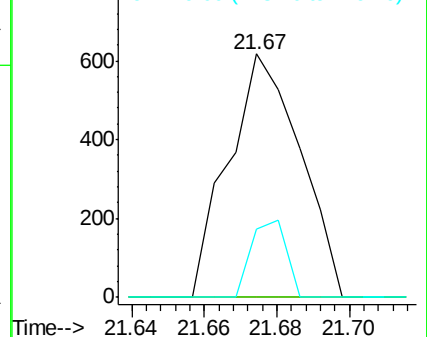
229 28.2 15.6 23.4#



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



#87

Di-n-octyl phthalate

Concen: 0.01 ng/ul

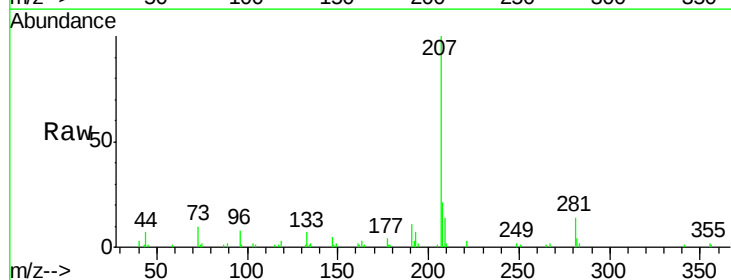
RT: 22.81 min Scan# 3399

Delta R.T. 0.01 min

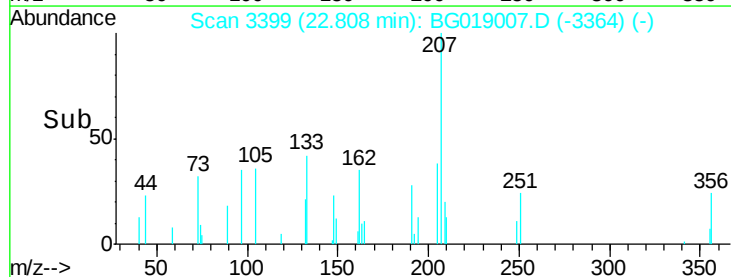
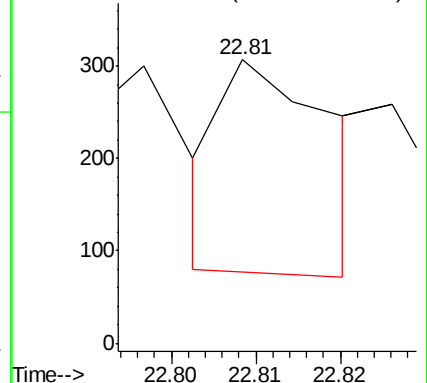
Lab File: BG019007.D

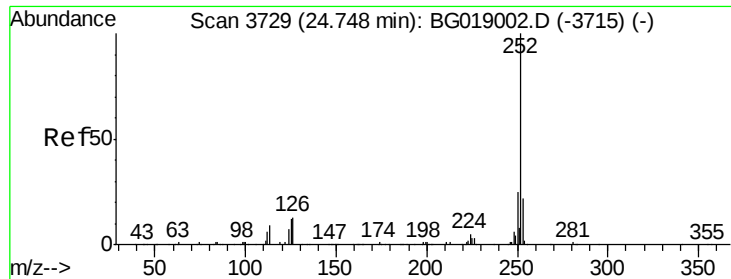
Acq: 4 Oct 2015 16:32

Tgt Ion:149 Resp: 207



Abundance Ion 149.00 (148.70 to 149.70): E





#91

Benzo(a)pyrene

Concen: 0.09 ng/ul

RT: 24.67 min Scan# 3716

Delta R.T. -0.08 min

Lab File: BG019007.D

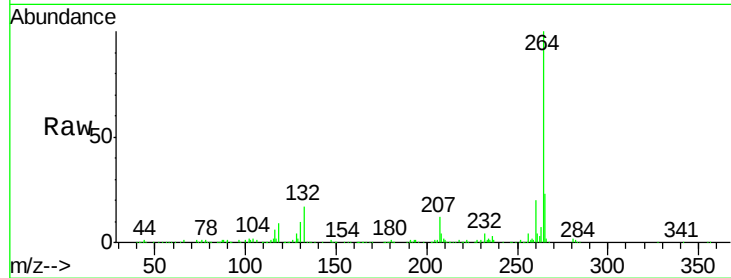
Acq: 4 Oct 2015 16:32

Instrument :

BNA\_G

ClientSampleId :

C0GG6



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 1281  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 27.9  | 18.1  | 27.1# |
| 125      | 0.0   | 9.4   | 14.2# |

