

(QT Reviewed)

```

Data Path   : Z:\HPCHEM1\BNA_G\Data\BG060116\
Data File   : BG022137.D
Acq On      : 1 Jun 2016 11:44
Operator    : UM/SJ
Sample      : SSTDCCC020
Misc        :
ALS Vial    : 2      Sample Multiplier: 1

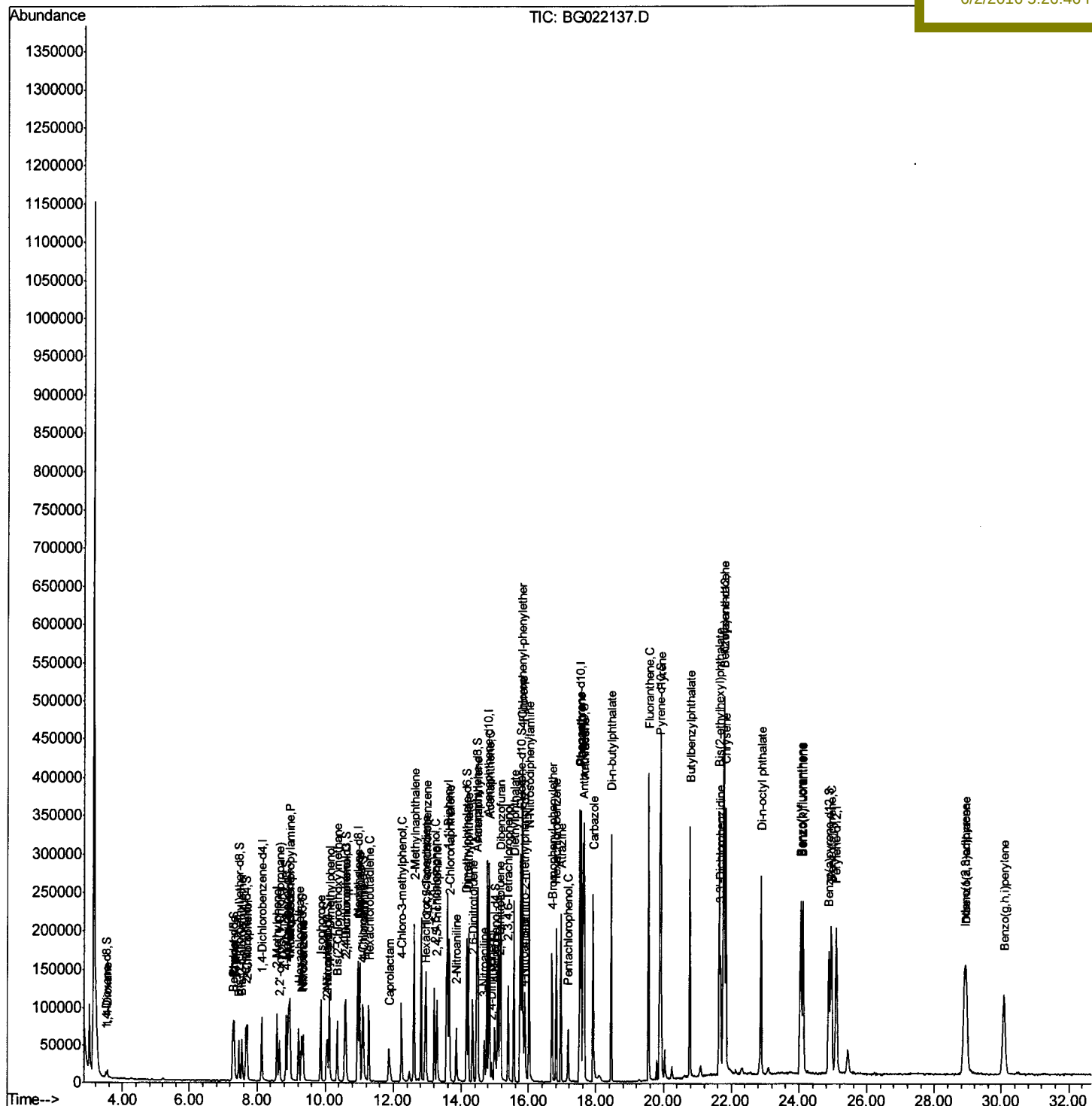
```

**Instrument :**  
BNA\_G  
**LabSampleId :**  
SSTD02026

Quant Time: Jun 02 01:09:37 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 01 01:07:08 2016  
Response via : Initial Calibration

## Manual Integrations

sohil  
6/2/2016 5:26:46 PM



# Quantitation Report (Qedit)

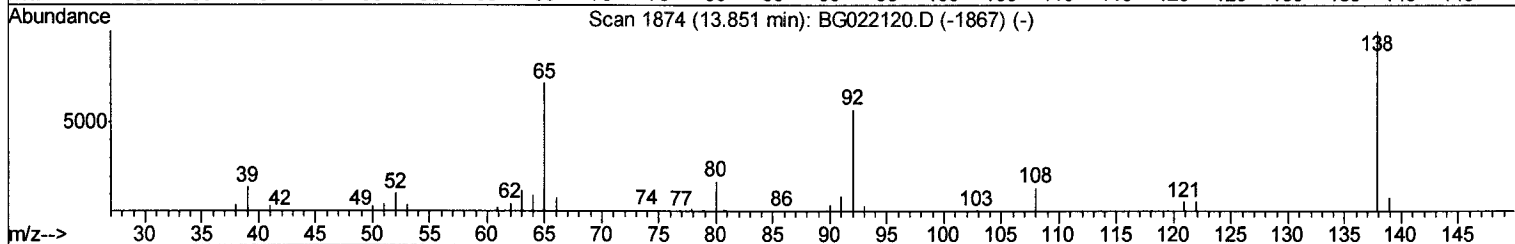
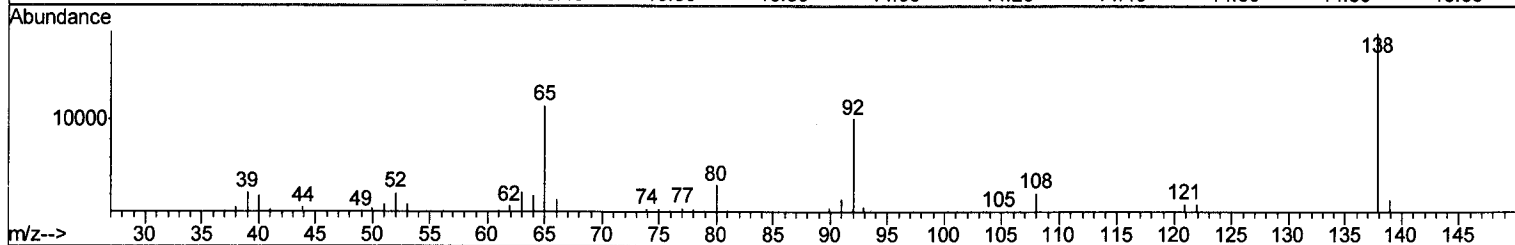
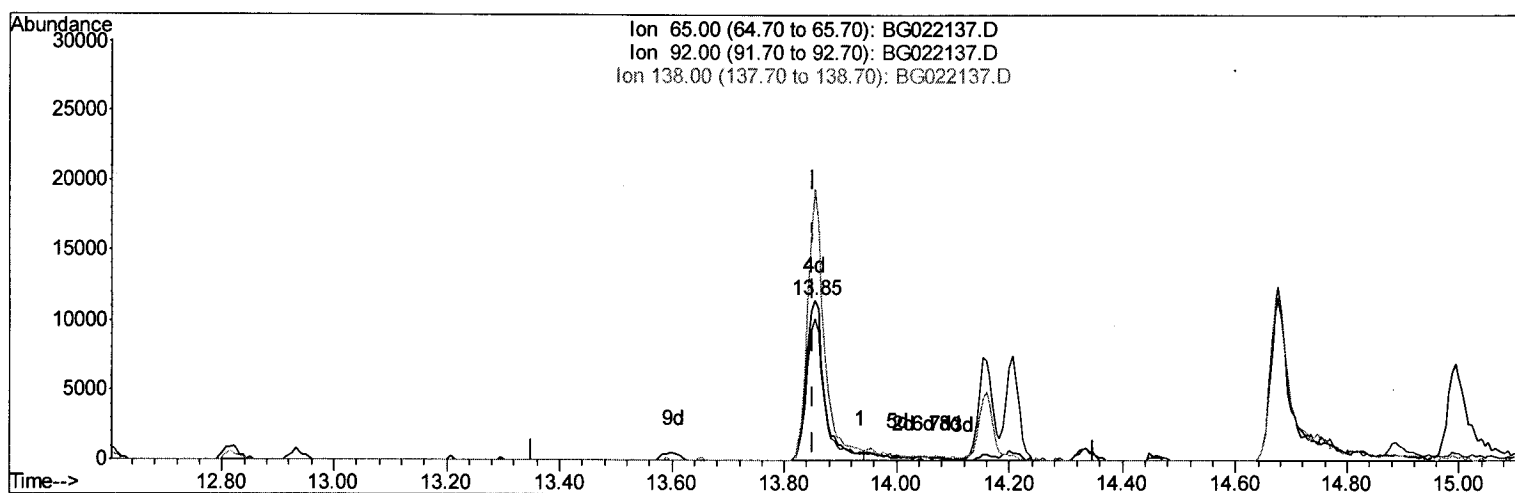
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
 Data File : BG022137.D  
 Acq On : 1 Jun 2016 11:44  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02026

Manual Integrations  
 APPROVED

sohil  
 6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:08:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 01 01:07:08 2016  
 Response via : Initial Calibration



TIC: BG022137.D

(42) 2-Nitroaniline

13.854min (+0.004) 16.29ng/ul m U.M  
 response 25692  
 06/09/16

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 65.00  | 100    | 100     |
| 92.00  | 83.90  | 88.05   |
| 138.00 | 137.00 | 168.68# |
| 0.00   | 0.00   | 0.00    |

## Quantitation Report (Qedit)

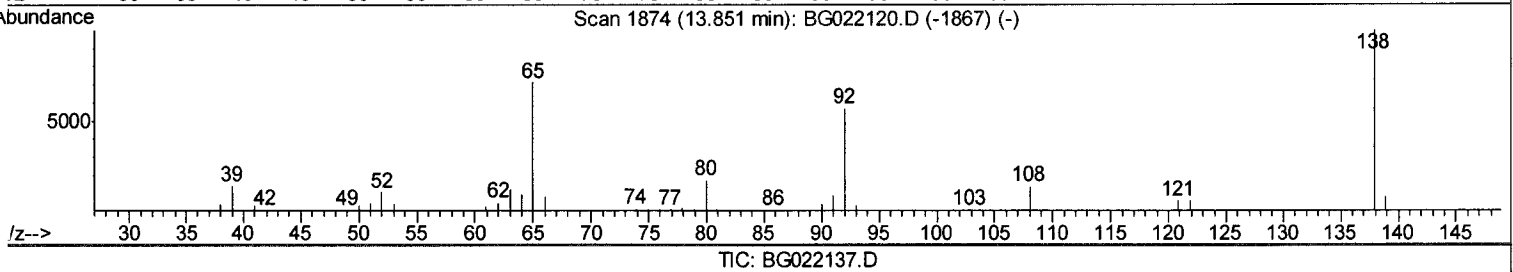
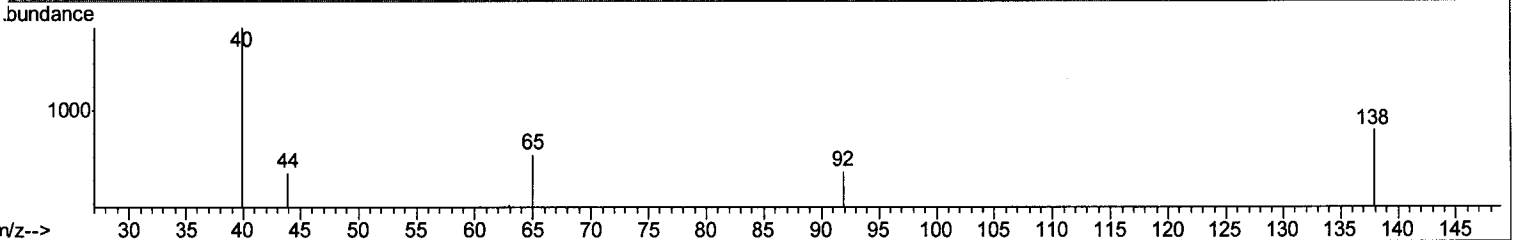
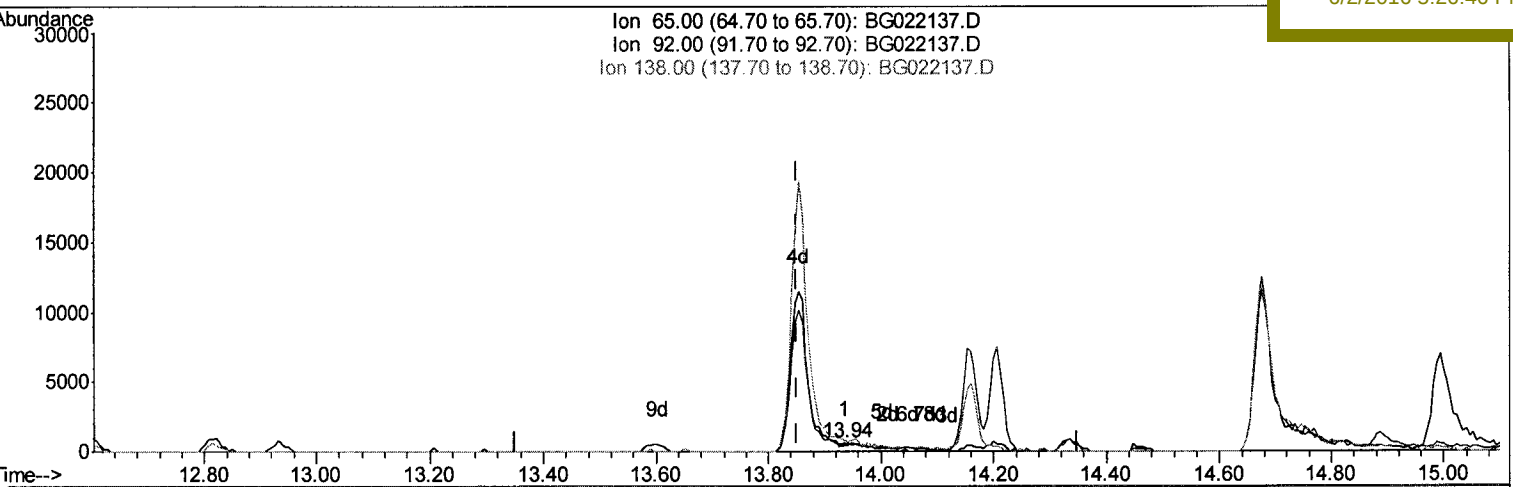
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
Data File : BG022137.D  
Acq On : 1 Jun 2016 11:44  
Operator : UM/SJ  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02026

Manual Integrations  
APPROVED

sohil  
6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:08:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 01 01:07:08 2016  
Response via : Initial Calibration



(42) 2-Nitroaniline

13.936min (+0.086) 0.09ng/ul

response 140

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 65.00  | 100    | 100    |
| 92.00  | 83.90  | 76.84  |
| 138.00 | 137.00 | 133.07 |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (Qedit)

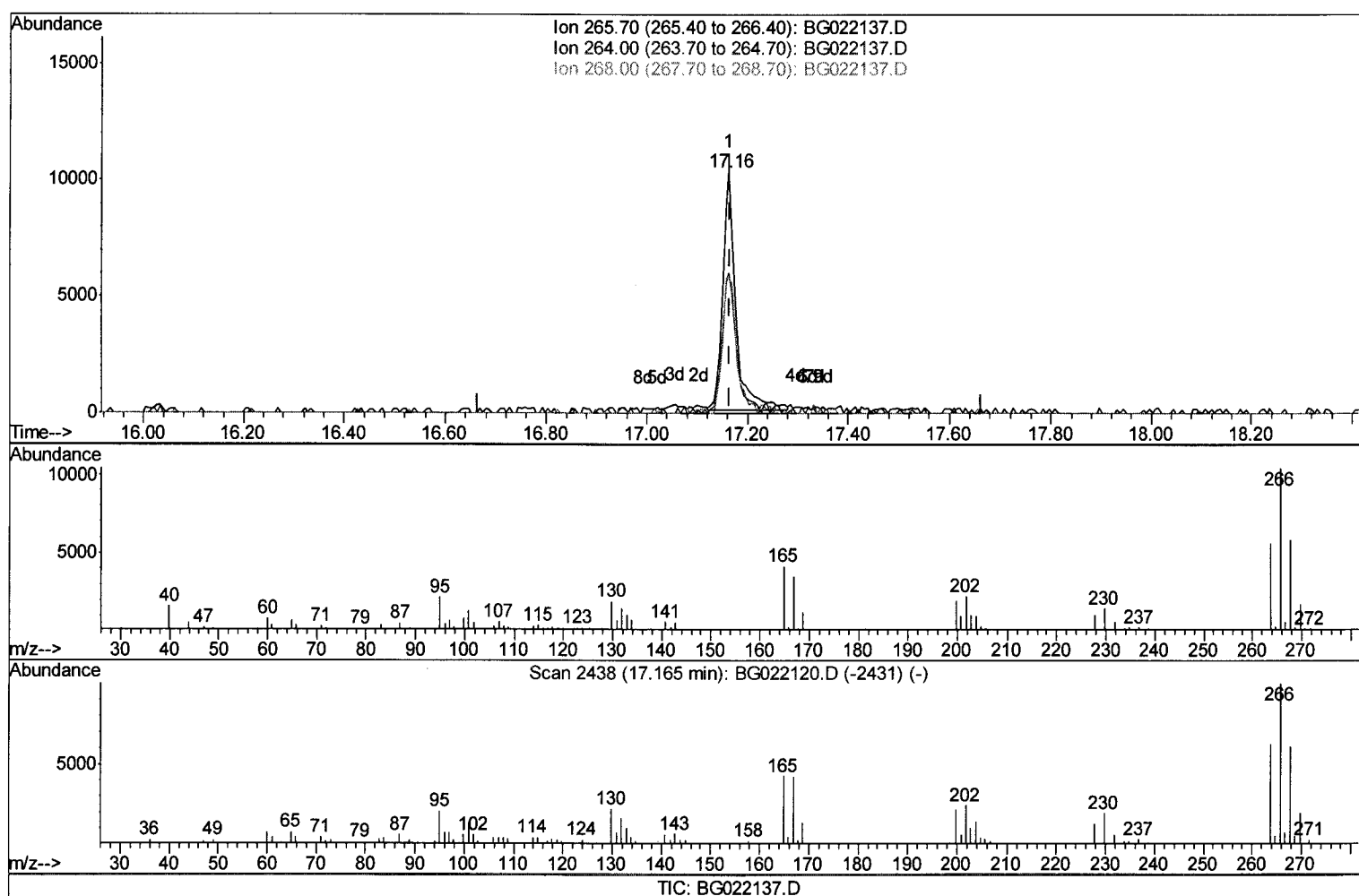
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
 Data File : BG022137.D  
 Acq On : 1 Jun 2016 11:44  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02026

Manual Integrations  
 APPROVED

sohil  
 6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:08:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 01 01:07:08 2016  
 Response via : Initial Calibration



(68) Pentachlorophenol (C)

17.162min (-0.002) 12.12ng/ul m U.M  
 response 18474  
 06/09/16

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 265.70 | 100   | 100    |
| 264.00 | 68.40 | 54.02# |
| 268.00 | 72.30 | 56.19# |
| 0.00   | 0.00  | 0.00   |

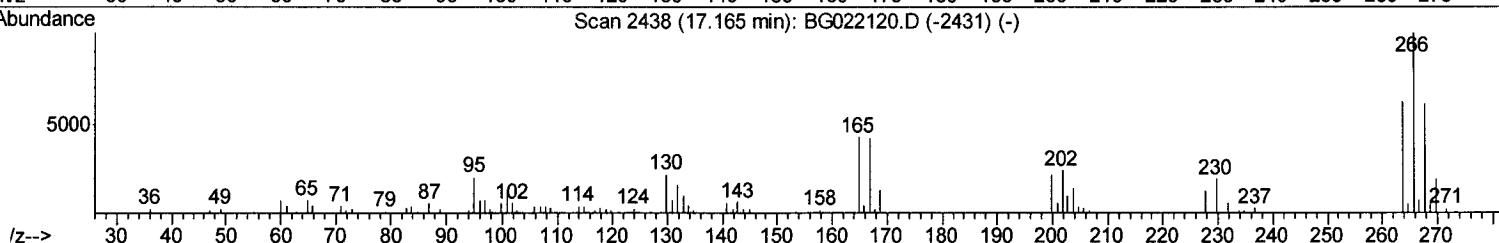
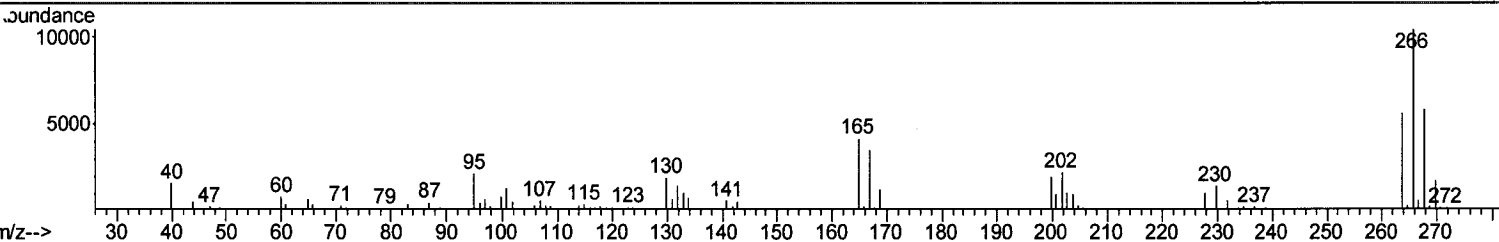
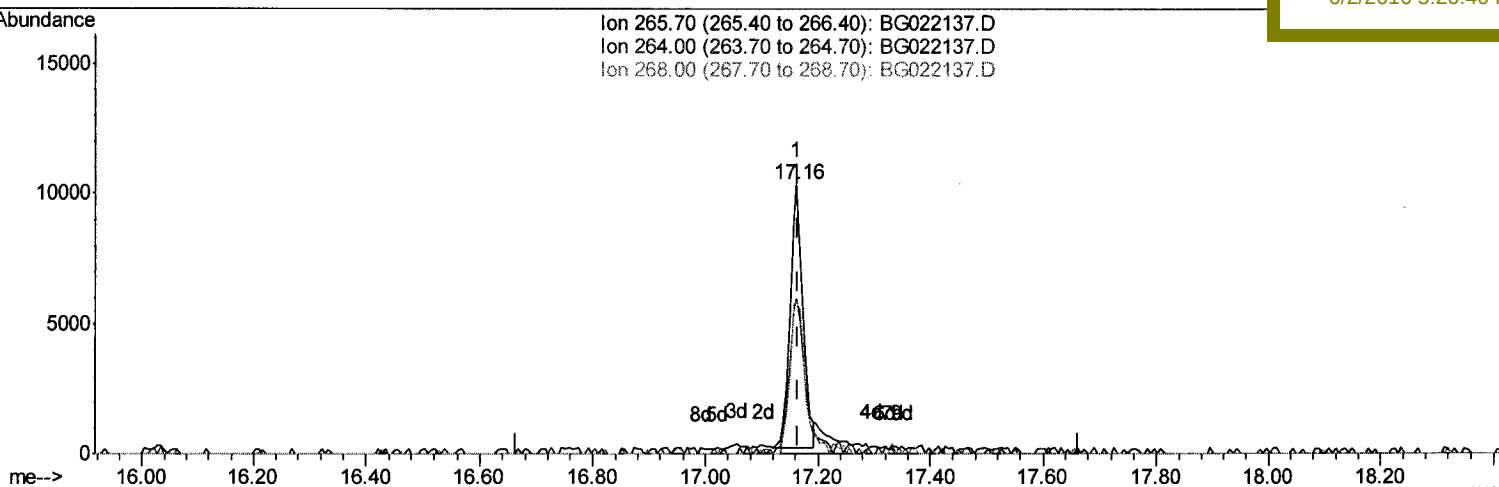
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
Data File : BG022137.D  
Acq On : 1 Jun 2016 11:44  
Operator : UM/SJ  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02026

Quant Time: Jun 02 01:08:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 01 01:07:08 2016  
Response via : Initial Calibration

Manual Integrations  
APPROVED

sohil  
6/2/2016 5:26:46 PM



TIC: BG022137.D

(68) Pentachlorophenol (C)

17.162min (-0.002) 10.51ng/ul

response 16024

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 265.70 | 100   | 100   |
| 264.00 | 68.40 | 57.85 |
| 268.00 | 72.30 | 59.28 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

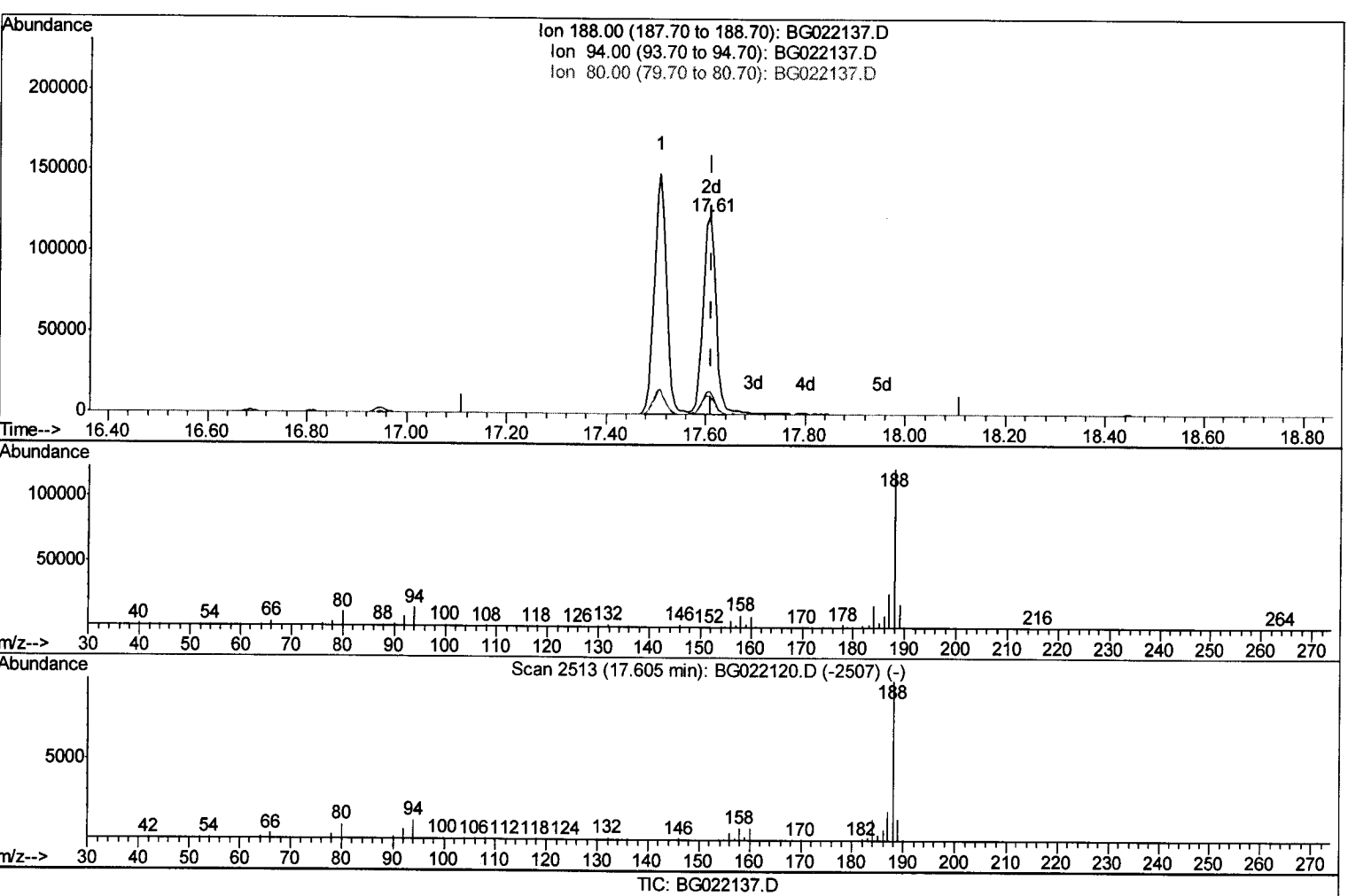
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
 Data File : BG022137.D  
 Acq On : 1 Jun 2016 11:44  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02026

Manual Integrations  
 APPROVED

sohil  
 6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:08:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 01 01:07:08 2016  
 Response via : Initial Calibration



(70) Anthracene-d10 (S)

17.608min (-0.002) 18.33ng/ul m U.M

response 219639

06/09/16

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 12.80 | 11.66 |
| 80.00  | 11.90 | 8.95# |
| 0.00   | 0.00  | 0.00  |

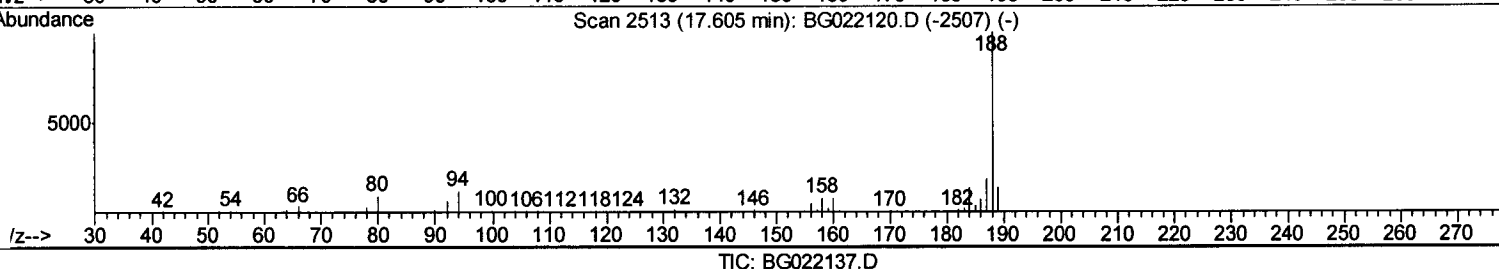
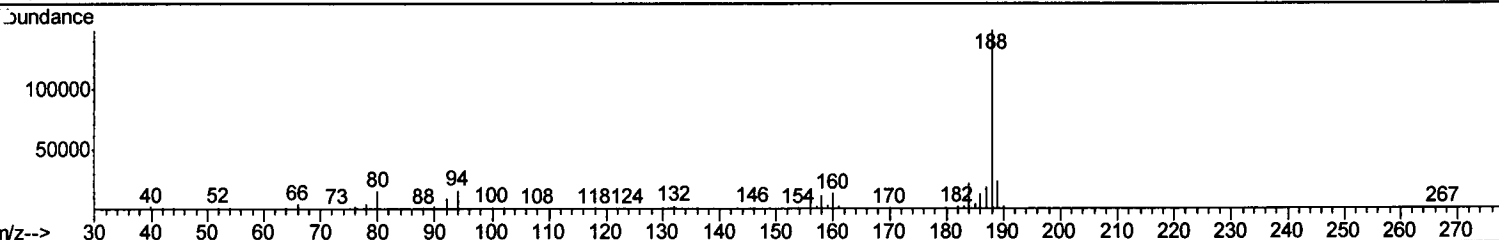
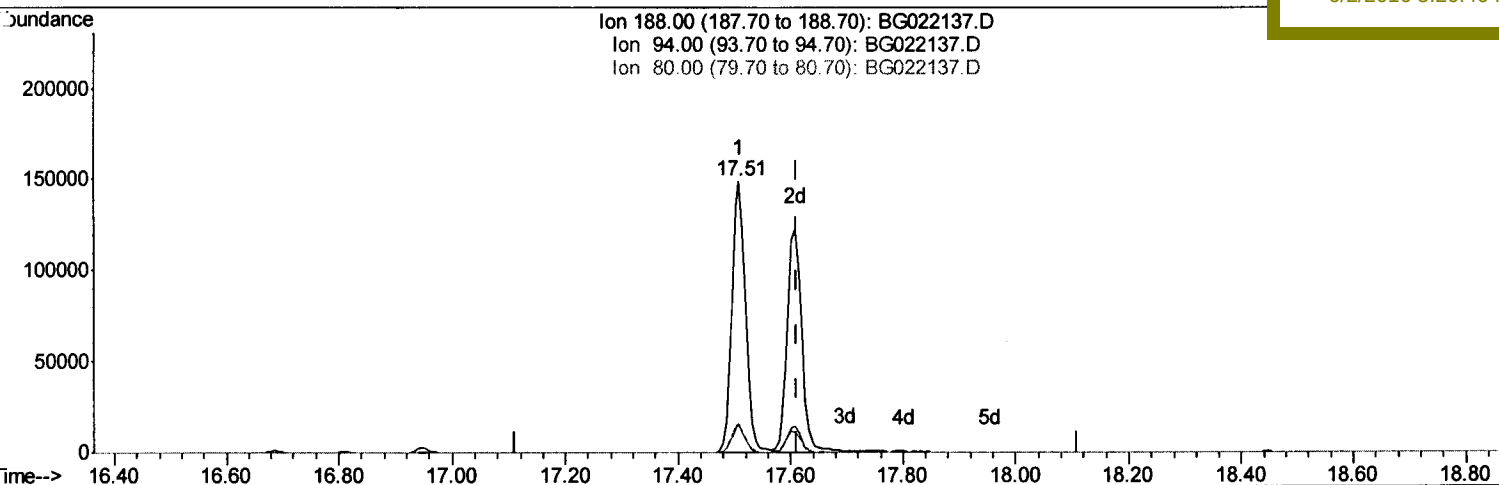
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
Data File : BG022137.D  
Acq On : 1 Jun 2016 11:44  
Operator : UM/SJ  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02026

Manual Integrations  
APPROVED

sohil  
6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:08:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 01 01:07:08 2016  
Response via : Initial Calibration



(70) Anthracene-d10 (S)

17.509min (-0.102) 20.83ng/ul

response 249626

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 12.80 | 10.53 |
| 80.00  | 11.90 | 10.07 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\

Data File : BG022137.D

Acq On : 1 Jun 2016 11:44

Operator : UM/SJ

Sample : SSTDCCC020

Misc :

ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA G

LabSampleId :

SSTD02026

Manual Integrations  
APPROVED

sohil

6/2/2016 5:26:46 PM

Quant Time: Jun 02 01:09:37 2016

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M

Quant Title : SVOA CALIBRATION

QLast Update : Wed Jun 01 01:07:08 2016

Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.96 | 216  | 55508    | 16.92 | ng/ul  | 93       |
| 37) Hexachlorocyclopentadiene  | 12.94 | 237  | 26484    | 18.74 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 13.21 | 196  | 37491    | 16.92 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 13.28 | 196  | 42222    | 17.96 | ng/ul  | 96       |
| 40) 1,1'-Biphenyl              | 13.60 | 154  | 158592   | 17.41 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.65 | 162  | 122451   | 17.50 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.85 | 65   | 25692m   | 16.29 | ng/ul  | 99       |
| 44) Dimethylphthalate          | 14.21 | 163  | 159153   | 19.06 | ng/ul  | 93       |
| 45) 2,6-Dinitrotoluene         | 14.34 | 165  | 35010    | 19.55 | ng/ul  | 99       |
| 47) Acenaphthylene             | 14.49 | 152  | 210547   | 17.81 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.68 | 138  | 28297    | 16.49 | ng/ul# | 92       |
| 49) Acenaphthene               | 14.83 | 153  | 145346   | 17.80 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.89 | 184  | 10660    | 15.37 | ng/ul# | 83       |
| 52) 4-Nitrophenol              | 14.99 | 109  | 12473    | 15.46 | ng/ul  | 89       |
| 53) Dibenzofuran               | 15.16 | 168  | 189570   | 18.78 | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 15.13 | 165  | 47472    | 19.66 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.39 | 232  | 32979    | 17.73 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.56 | 149  | 167889   | 19.38 | ng/ul  | 99       |
| 58) Fluorene                   | 15.80 | 166  | 163301   | 19.16 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.79 | 204  | 73296    | 19.10 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.84 | 138  | 25039    | 13.29 | ng/ul  | 92       |
| 63) 4,6-Dinitro-2-methylphenol | 15.89 | 198  | 22783    | 16.87 | ng/ul# | 99       |
| 64) N-Nitrosodiphenylamine     | 16.01 | 169  | 134685   | 17.06 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.69 | 248  | 43952    | 17.42 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.81 | 284  | 52116    | 17.79 | ng/ul  | 97       |
| 67) Atrazine                   | 16.95 | 200  | 49224    | 18.11 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 17.16 | 266  | 18474m   | 12.12 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.55 | 178  | 251271   | 18.10 | ng/ul  | 99       |
| 71) Anthracene                 | 17.64 | 178  | 248794   | 17.69 | ng/ul  | 99       |
| 72) Carbazole                  | 17.91 | 167  | 219882   | 18.04 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.45 | 149  | 298221   | 18.26 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.55 | 202  | 278091   | 19.60 | ng/ul  | 97       |
| 77) Pyrene                     | 19.91 | 202  | 276197   | 16.27 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.78 | 149  | 131851   | 16.39 | ng/ul  | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.67 | 252  | 80281    | 17.70 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.77 | 228  | 245880   | 17.38 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 192187   | 16.78 | ng/ul  | 99       |
| 82) Chrysene                   | 21.83 | 228  | 239412   | 17.64 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.88 | 149  | 320383   | 17.93 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.04 | 252  | 243773   | 19.00 | ng/ul  | 98       |
| 86) Benzo(k)fluoranthene       | 24.11 | 252  | 222939   | 17.85 | ng/ul  | 96       |
| 88) Benzo(a)pyrene             | 24.95 | 252  | 225782   | 18.24 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 28.89 | 276  | 260501   | 18.35 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 28.95 | 278  | 212800   | 17.92 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 30.07 | 276  | 219787   | 19.33 | ng/ul  | 97       |

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

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060116\  
 Data File : BG022137.D  
 Acq On : 1 Jun 2016 11:44  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02026

Quant Time: Jun 02 01:09:37 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG052116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 01 01:07:08 2016  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

sohil  
 6/2/2016 5:26:46 PM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.13  | 152  | 36150    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.96 | 136  | 181970   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.76 | 164  | 110619   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.51 | 188  | 249626   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.79 | 240  | 241285   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.09 | 264  | 219251   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.50  | 96  | 5299    | 7.64  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.30  | 99  | 56543   | 17.31 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.45  | 67  | 28786   | 16.81 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.67  | 132 | 48937   | 17.92 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.85  | 113 | 48916   | 17.66 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.31  | 128 | 24153   | 18.00 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.03 | 143 | 27510   | 18.92 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.58 | 165 | 48365   | 18.86 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 61117   | 21.88 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.16 | 166 | 160931  | 19.37 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.46 | 160 | 208492  | 17.97 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.98 | 143 | 23088   | 16.14 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.75 | 176 | 147320  | 18.93 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.88 | 200 | 22000   | 16.86 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.61 | 188 | 219639m | 18.33 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.89 | 212 | 226064  | 16.61 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.87 | 264 | 187811  | 18.46 | ng/ul | 0.00 |

U.M  
 5/26/09/16

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.54  | 88  | 9668   | 7.69  | ng/uL  | 98     |
| 4) Benzaldehyde                | 7.27  | 77  | 22371  | 12.43 | ng/ul  | 97     |
| 6) Phenol                      | 7.33  | 94  | 55921  | 17.00 | ng/ul  | 95     |
| 8) Bis(2-Chloroethyl)ether     | 7.54  | 93  | 44017  | 18.32 | ng/ul  | 94     |
| 10) 2-Chlorophenol             | 7.70  | 128 | 48347  | 17.96 | ng/ul  | 92     |
| 11) 2-Methylphenol             | 8.58  | 108 | 45759  | 17.42 | ng/ul  | 94     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.67  | 45  | 46536  | 16.21 | ng/ul# | 91     |
| 14) Acetophenone               | 8.96  | 105 | 70845  | 18.28 | ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.94  | 70  | 35954  | 17.97 | ng/ul  | 97     |
| 16) 4-Methylphenol             | 8.91  | 108 | 50283  | 17.75 | ng/ul  | 97     |
| 17) Hexachloroethane           | 9.22  | 117 | 18904  | 17.62 | ng/ul  | 97     |
| 20) Nitrobenzene               | 9.35  | 77  | 47844  | 17.61 | ng/ul  | 93     |
| 21) Isophorone                 | 9.86  | 82  | 107130 | 18.50 | ng/ul  | 98     |
| 23) 2-Nitrophenol              | 10.06 | 139 | 28278  | 18.61 | ng/ul  | 95     |
| 24) 2,4-Dimethylphenol         | 10.12 | 107 | 52603  | 17.94 | ng/ul  | 92     |
| 25) Bis(2-Chloroethoxy)methane | 10.35 | 93  | 62709  | 18.87 | ng/ul  | 98     |
| 27) 2,4-Dichlorophenol         | 10.60 | 162 | 47976  | 19.06 | ng/ul  | 97     |
| 28) Naphthalene                | 11.00 | 128 | 168411 | 18.25 | ng/ul  | 99     |
| 30) 4-Chloroaniline            | 11.11 | 127 | 62766  | 22.36 | ng/ul  | 91     |
| 31) Hexachlorobutadiene        | 11.27 | 225 | 26406  | 17.80 | ng/ul  | 92     |
| 32) Caprolactam                | 11.87 | 113 | 20136  | 19.96 | ng/ul  | 95     |
| 33) 4-Chloro-3-methylphenol    | 12.24 | 107 | 49989  | 18.65 | ng/ul  | 99     |
| 34) 2-Methylnaphthalene        | 12.60 | 142 | 121083 | 18.36 | ng/ul  | 99     |