

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071717\  
 Data File : BG027958.D  
 Acq On : 17 Jul 2017 20:59  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02060

Manual Integrations  
 APPROVED

mohammad  
 7/20/2017 8:40:16 AM

Quant Time: Jul 18 01:40:25 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG071717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jul 17 16:40:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.37  | 152  | 49057    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.19 | 136  | 200544   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.97 | 164  | 138332   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.72 | 188  | 350924   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.05 | 240  | 445813   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.57 | 264  | 419061   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.87  | 96  | 7259   | 8.16  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.52  | 99  | 76384  | 18.94 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.68  | 67  | 44756  | 19.26 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.91  | 132 | 63278  | 19.98 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 9.06  | 113 | 64799  | 19.42 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.54  | 128 | 29299  | 19.86 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.26 | 143 | 35878  | 20.21 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.80 | 165 | 73147  | 21.06 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.32 | 131 | 64121  | 20.42 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.36 | 166 | 242978 | 20.26 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.67 | 160 | 279205 | 20.48 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.16 | 143 | 31411  | 18.09 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.96 | 176 | 228556 | 20.22 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 16.07 | 200 | 44181  | 18.13 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.82 | 188 | 344492 | 20.36 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 20.09 | 212 | 408566 | 20.40 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.33 | 264 | 392203 | 20.04 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |        |        | Qvalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.90  | 88  | 8108   | 7.511  | ng/uL# | 85 |
| 4) Benzaldehyde                | 7.51  | 77  | 49909  | 19.963 | ng/ul# | 86 |
| 6) Phenol                      | 7.54  | 94  | 73501  | 18.788 | ng/ul  | 89 |
| 8) Bis(2-Chloroethyl)ether     | 7.78  | 93  | 54001  | 19.152 | ng/ul  | 90 |
| 10) 2-Chlorophenol             | 7.94  | 128 | 57220  | 19.433 | ng/ul# | 83 |
| 11) 2-Methylphenol             | 8.80  | 108 | 54391  | 18.934 | ng/ul  | 98 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.89  | 45  | 102181 | 19.217 | ng/ul  | 95 |
| 14) Acetophenone               | 9.19  | 105 | 91841  | 19.522 | ng/ul  | 87 |
| 15) N-Nitroso-di-n-propylamine | 9.16  | 70  | 47564  | 19.719 | ng/ul# | 94 |
| 16) 4-Methylphenol             | 9.12  | 108 | 60439  | 19.198 | ng/ul  | 96 |
| 17) Hexachloroethane           | 9.46  | 117 | 23556  | 19.866 | ng/ul  | 87 |
| 20) Nitrobenzene               | 9.58  | 77  | 70258  | 20.595 | ng/ul# | 91 |
| 21) Isophorone                 | 10.10 | 82  | 127118 | 20.458 | ng/ul# | 93 |
| 23) 2-Nitrophenol              | 10.30 | 139 | 34419  | 20.144 | ng/ul# | 72 |
| 24) 2,4-Dimethylphenol         | 10.33 | 107 | 71614  | 20.030 | ng/ul# | 90 |
| 25) Bis(2-Chloroethoxy)methane | 10.57 | 93  | 74420  | 19.965 | ng/ul# | 92 |
| 27) 2,4-Dichlorophenol         | 10.83 | 162 | 71547  | 21.275 | ng/ul# | 88 |
| 28) Naphthalene                | 11.24 | 128 | 196178 | 20.643 | ng/ul  | 97 |
| 30) 4-Chloroaniline            | 11.34 | 127 | 57759  | 19.876 | ng/ul  | 92 |
| 31) Hexachlorobutadiene        | 11.52 | 225 | 56147  | 20.874 | ng/ul  | 96 |
| 32) Caprolactam                | 12.09 | 113 | 20190  | 20.177 | ng/ul  | 95 |
| 33) 4-Chloro-3-methylphenol    | 12.44 | 107 | 65390  | 20.395 | ng/ul# | 84 |
| 34) 2-Methylnaphthalene        | 12.82 | 142 | 161694 | 21.041 | ng/ul  | 98 |

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 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02060

Manual Integrations  
 APPROVED

mohammad  
 7/20/2017 8:40:16 AM

Quant Time: Jul 18 01:40:25 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG071717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jul 17 16:40:57 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.18 | 216  | 110359   | 21.211 | ng/ul# | 91       |
| 37) Hexachlorocyclopentadiene  | 13.15 | 237  | 55281    | 17.957 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.41 | 196  | 65353    | 20.822 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 13.49 | 196  | 67581    | 20.037 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.81 | 154  | 217312   | 20.557 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.86 | 162  | 169999   | 20.342 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 14.06 | 65   | 46280    | 19.378 | ng/ul# | 85       |
| 44) Dimethylphthalate          | 14.41 | 163  | 222392   | 20.365 | ng/ul# | 99       |
| 45) 2,6-Dinitrotoluene         | 14.54 | 165  | 44143    | 19.984 | ng/ul# | 87       |
| 47) Acenaphthylene             | 14.70 | 152  | 271308   | 20.260 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.87 | 138  | 35831    | 18.662 | ng/ul# | 96       |
| 49) Acenaphthene               | 15.04 | 153  | 183159   | 20.216 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 15.08 | 184  | 20233    | 15.902 | ng/ul# | 71       |
| 52) 4-Nitrophenol              | 15.17 | 109  | 25393    | 18.148 | ng/ul# | 84       |
| 53) Dibenzofuran               | 15.37 | 168  | 271259   | 20.249 | ng/ul  | 92       |
| 54) 2,4-Dinitrotoluene         | 15.32 | 165  | 63280    | 19.653 | ng/ul# | 81       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.59 | 232  | 64961    | 20.213 | ng/ul  | 94       |
| 56) Diethylphthalate           | 15.77 | 149  | 221192   | 19.424 | ng/ul  | 96       |
| 58) Fluorene                   | 16.02 | 166  | 234218   | 20.337 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 16.00 | 204  | 131009   | 20.515 | ng/ul# | 81       |
| 60) 4-Nitroaniline             | 16.04 | 138  | 43933    | 19.281 | ng/ul# | 71       |
| 63) 4,6-Dinitro-2-methylphenol | 16.09 | 198  | 42059    | 18.048 | ng/ul# | 91       |
| 64) N-Nitrosodiphenylamine     | 16.21 | 169  | 191162   | 20.210 | ng/ul  | 95       |
| 65) 4-Bromophenyl-phenylether  | 16.90 | 248  | 88896    | 20.787 | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 17.03 | 284  | 91468    | 20.343 | ng/ul  | 94       |
| 67) Atrazine                   | 17.15 | 200  | 83605    | 20.089 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 17.37 | 266  | 44527    | 18.229 | ng/ul  | 93       |
| 69) Phenanthrene               | 17.77 | 178  | 365892   | 20.343 | ng/ul  | 97       |
| 71) Anthracene                 | 17.86 | 178  | 384395   | 20.851 | ng/ul  | 97       |
| 72) Carbazole                  | 18.12 | 167  | 310646   | 20.437 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.65 | 149  | 346281   | 20.777 | ng/ul# | 96       |
| 74) Fluoranthene               | 19.76 | 202  | 469541   | 21.327 | ng/ul# | 95       |
| 77) Pyrene                     | 20.12 | 202  | 493276   | 20.884 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.99 | 149  | 152633   | 20.157 | ng/ul  | 86       |
| 79) 3,3'-Dichlorobenzidine     | 21.94 | 252  | 142375   | 19.643 | ng/ul# | 94       |
| 80) Benzo(a)anthracene         | 22.04 | 228  | 500336   | 20.747 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.90 | 149  | 215566   | 19.978 | ng/ul  | 95       |
| 82) Chrysene                   | 22.11 | 228  | 451518   | 20.570 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 23.21 | 149  | 372628   | 19.172 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.45 | 252  | 481702   | 20.143 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 24.52 | 252  | 477887m  | 20.373 | ng/ul  |          |
| 88) Benzo(a)pyrene             | 25.41 | 252  | 476590   | 20.626 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.61 | 276  | 531455   | 20.281 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 29.68 | 278  | 451850   | 20.542 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 30.86 | 276  | 443088   | 20.496 | ng/ul  | 97       |

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

