

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082817\  
 Data File : BG082524.D  
 Acq On : 28 Aug 2017 18:34  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02090

Manual Integrations  
 APPROVED

Sohil  
 8/29/2017 6:01:40 PM

Quant Time: Aug 29 03:53:43 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 29 01:30:36 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.34  | 152  | 35188    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.16 | 136  | 153342   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.95 | 164  | 106091   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.70 | 188  | 275908   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.03 | 240  | 337089   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.53 | 264  | 317053   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.82  | 96  | 5844m  | 7.73  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.49  | 99  | 66888  | 17.31 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.66  | 67  | 42422  | 17.33 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.87  | 132 | 51680  | 21.20 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 55013  | 17.03 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.50  | 128 | 25804  | 21.52 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.23 | 143 | 29982  | 22.81 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.78 | 165 | 56925  | 20.93 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.29 | 131 | 64886  | 21.43 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.34 | 166 | 183854 | 19.48 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.64 | 160 | 214142 | 20.13 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.14 | 143 | 28599  | 19.06 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.93 | 176 | 169232 | 19.99 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.06 | 200 | 33718  | 18.81 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.80 | 188 | 264426 | 19.99 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.07 | 212 | 309670 | 17.91 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.28 | 264 | 303917 | 20.48 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.85  | 88  | 7404   | 9.329  | ng/uL# | 88 |
| 4) Benzaldehyde                | 7.48  | 77  | 46172  | 20.674 | ng/ul  | 92 |
| 6) Phenol                      | 7.52  | 94  | 67815  | 17.657 | ng/ul# | 92 |
| 8) Bis(2-Chloroethyl)ether     | 7.74  | 93  | 47914  | 18.314 | ng/ul  | 93 |
| 10) 2-Chlorophenol             | 7.90  | 128 | 48618  | 20.464 | ng/ul  | 93 |
| 11) 2-Methylphenol             | 8.77  | 108 | 50023  | 18.452 | ng/ul  | 89 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.85  | 45  | 101371 | 15.961 | ng/ul# | 94 |
| 14) Acetophenone               | 9.16  | 105 | 81875  | 17.774 | ng/ul# | 86 |
| 15) N-Nitroso-di-n-propylamine | 9.13  | 70  | 44243  | 16.899 | ng/ul  | 88 |
| 16) 4-Methylphenol             | 9.10  | 108 | 51681  | 16.883 | ng/ul  | 92 |
| 17) Hexachloroethane           | 9.42  | 117 | 21031  | 21.362 | ng/ul  | 92 |
| 20) Nitrobenzene               | 9.55  | 77  | 70240  | 20.236 | ng/ul  | 95 |
| 21) Isophorone                 | 10.07 | 82  | 119231 | 18.080 | ng/ul  | 98 |
| 23) 2-Nitrophenol              | 10.26 | 139 | 28788  | 21.690 | ng/ul# | 82 |
| 24) 2,4-Dimethylphenol         | 10.31 | 107 | 62631  | 18.985 | ng/ul# | 87 |
| 25) Bis(2-Chloroethoxy)methane | 10.54 | 93  | 67122  | 18.686 | ng/ul  | 95 |
| 27) 2,4-Dichlorophenol         | 10.81 | 162 | 50796  | 20.514 | ng/ul  | 91 |
| 28) Naphthalene                | 11.21 | 128 | 157206 | 20.700 | ng/ul  | 98 |
| 30) 4-Chloroaniline            | 11.31 | 127 | 61199  | 20.851 | ng/ul  | 99 |
| 31) Hexachlorobutadiene        | 11.48 | 225 | 42728  | 23.377 | ng/ul  | 93 |
| 32) Caprolactam                | 12.07 | 113 | 18694  | 18.155 | ng/ul  | 85 |
| 33) 4-Chloro-3-methylphenol    | 12.42 | 107 | 60593  | 19.171 | ng/ul  | 99 |
| 34) 2-Methylnaphthalene        | 12.79 | 142 | 119346 | 19.564 | ng/ul  | 95 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.15 | 216  | 74553    | 21.802 | ng/ul  | 93       |
| 37) Hexachlorocyclopentadiene  | 13.12 | 237  | 41998    | 22.258 | ng/ul# | 97       |
| 38) 2,4,6-Trichlorophenol      | 13.39 | 196  | 48319    | 22.671 | ng/ul  | 96       |
| 39) 2,4,5-Trichlorophenol      | 13.47 | 196  | 53204m   | 22.902 | ng/ul  |          |
| 40) 1,1'-Biphenyl              | 13.78 | 154  | 156520   | 20.200 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.83 | 162  | 123319   | 20.139 | ng/ul  | 94       |
| 42) 2-Nitroaniline             | 14.03 | 65   | 48859    | 19.031 | ng/ul  | 94       |
| 44) Dimethylphthalate          | 14.38 | 163  | 164880   | 18.977 | ng/ul  | 96       |
| 45) 2,6-Dinitrotoluene         | 14.52 | 165  | 36378    | 20.279 | ng/ul# | 89       |
| 47) Acenaphthylene             | 14.67 | 152  | 202308   | 19.898 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.85 | 138  | 33304    | 20.618 | ng/ul# | 97       |
| 49) Acenaphthene               | 15.01 | 153  | 132930   | 19.378 | ng/ul  | 93       |
| 50) 2,4-Dinitrophenol          | 15.06 | 184  | 21667    | 21.437 | ng/ul# | 75       |
| 52) 4-Nitrophenol              | 15.16 | 109  | 26374    | 16.966 | ng/ul# | 77       |
| 53) Dibenzofuran               | 15.34 | 168  | 198331   | 19.830 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 15.31 | 165  | 55198    | 20.304 | ng/ul  | 88       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.57 | 232  | 48005    | 22.187 | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.73 | 149  | 185638   | 18.213 | ng/ul  | 99       |
| 58) Fluorene                   | 15.99 | 166  | 174653   | 19.724 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.97 | 204  | 96278    | 20.266 | ng/ul  | 89       |
| 60) 4-Nitroaniline             | 16.02 | 138  | 34994    | 18.261 | ng/ul# | 77       |
| 63) 4,6-Dinitro-2-methylphenol | 16.07 | 198  | 33584    | 18.479 | ng/ul# | 98       |
| 64) N-Nitrosodiphenylamine     | 16.19 | 169  | 145625   | 20.062 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.87 | 248  | 64201    | 21.650 | ng/ul  | 95       |
| 66) Hexachlorobenzene          | 17.00 | 284  | 70973    | 22.482 | ng/ul  | 96       |
| 67) Atrazine                   | 17.13 | 200  | 64223    | 20.294 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 17.35 | 266  | 27005    | 16.888 | ng/ul  | 95       |
| 69) Phenanthrene               | 17.74 | 178  | 273651   | 19.708 | ng/ul  | 98       |
| 71) Anthracene                 | 17.83 | 178  | 283995   | 20.012 | ng/ul  | 97       |
| 72) Carbazole                  | 18.10 | 167  | 247613   | 20.063 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.63 | 149  | 306379   | 19.942 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.74 | 202  | 348884   | 20.675 | ng/ul  | 99       |
| 77) Pyrene                     | 20.10 | 202  | 360714   | 17.936 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.96 | 149  | 144009   | 19.114 | ng/ul  | 93       |
| 79) 3,3'-Dichlorobenzidine     | 21.91 | 252  | 138288   | 21.264 | ng/ul  | 95       |
| 80) Benzo(a)anthracene         | 22.00 | 228  | 378111   | 19.413 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.86 | 149  | 205000   | 19.132 | ng/ul  | 99       |
| 82) Chrysene                   | 22.07 | 228  | 343792   | 19.599 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 23.16 | 149  | 357083   | 18.793 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.41 | 252  | 374726   | 19.751 | ng/ul  | 98       |
| 86) Benzo(k)fluoranthene       | 24.48 | 252  | 370199   | 19.975 | ng/ul  | 98       |
| 88) Benzo(a)pyrene             | 25.36 | 252  | 368791   | 20.076 | ng/ul  | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.56 | 276  | 409689   | 19.045 | ng/ul# | 98       |
| 90) Dibenzo(a,h)anthracene     | 29.62 | 278  | 342062   | 18.971 | ng/ul  | 96       |
| 91) Benzo(g,h,i)perylene       | 30.81 | 276  | 314431   | 17.767 | ng/ul  | 98       |

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

