

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
 Data File : BG025298.D  
 Acq On : 18 Dec 2016 6:39  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SSTD02019

Manual Integrations  
 APPROVED

umangi  
 12/20/2016 10:55:31 AM

Quant Time: Dec 18 07:36:55 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 03:57:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 101629   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 418574   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 321997   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 714830   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 940915   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.33 | 264  | 951349   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 15441  | 7.85  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.39  | 99  | 173576 | 19.80 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 111730 | 20.60 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 126105 | 20.57 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 143349 | 19.56 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 63441  | 21.40 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 78172  | 21.16 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 151478 | 21.32 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 165418 | 23.69 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 447174 | 20.19 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 509782 | 21.01 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.08 | 143 | 76283  | 20.04 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.84 | 176 | 430242 | 20.64 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.98 | 200 | 87523  | 19.80 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.70 | 188 | 643990 | 21.34 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.97 | 212 | 798242 | 20.60 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 834861 | 21.66 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.62  | 88  | 17292  | 6.75  | ng/uL# 89 |
| 4) Benzaldehyde                | 7.37  | 77  | 139539 | 21.14 | ng/ul 98  |
| 6) Phenol                      | 7.42  | 94  | 184935 | 20.55 | ng/ul 94  |
| 8) Bis(2-Chloroethyl)ether     | 7.64  | 93  | 129352 | 19.64 | ng/ul 92  |
| 10) 2-Chlorophenol             | 7.79  | 128 | 123445 | 20.03 | ng/ul 92  |
| 11) 2-Methylphenol             | 8.68  | 108 | 135938 | 20.52 | ng/ul 96  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.76  | 45  | 237710 | 21.23 | ng/ul 99  |
| 14) Acetophenone               | 9.07  | 105 | 217092 | 19.47 | ng/ul 96  |
| 15) N-Nitroso-di-n-propylamine | 9.04  | 70  | 122838 | 19.07 | ng/ul 98  |
| 16) 4-Methylphenol             | 9.01  | 108 | 143496 | 19.47 | ng/ul 89  |
| 17) Hexachloroethane           | 9.32  | 117 | 56199  | 20.58 | ng/ul 94  |
| 20) Nitrobenzene               | 9.46  | 77  | 195597 | 21.47 | ng/ul 99  |
| 21) Isophorone                 | 9.97  | 82  | 327151 | 18.98 | ng/ul 98  |
| 23) 2-Nitrophenol              | 10.17 | 139 | 80466  | 21.47 | ng/ul 93  |
| 24) 2,4-Dimethylphenol         | 10.22 | 107 | 175491 | 20.47 | ng/ul 92  |
| 25) Bis(2-Chloroethoxy)methane | 10.45 | 93  | 179952 | 20.49 | ng/ul 93  |
| 27) 2,4-Dichlorophenol         | 10.71 | 162 | 147479 | 21.37 | ng/ul 94  |
| 28) Naphthalene                | 11.11 | 128 | 396591 | 20.38 | ng/ul 98  |
| 30) 4-Chloroaniline            | 11.22 | 127 | 169527 | 23.74 | ng/ul 95  |
| 31) Hexachlorobutadiene        | 11.37 | 225 | 128997 | 21.75 | ng/ul 93  |
| 32) Caprolactam                | 12.00 | 113 | 52327  | 18.26 | ng/ul 97  |
| 33) 4-Chloro-3-methylphenol    | 12.34 | 107 | 169222 | 19.90 | ng/ul 98  |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 302100 | 19.67 | ng/ul 94  |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.06 | 216  | 217531   | 22.41 | ng/ul# | 92       |
| 37) Hexachlorocyclopentadiene  | 13.02 | 237  | 74666    | 13.11 | ng/ul  | 92       |
| 38) 2,4,6-Trichlorophenol      | 13.30 | 196  | 134871   | 22.12 | ng/ul  | 88       |
| 39) 2,4,5-Trichlorophenol      | 13.39 | 196  | 142632   | 21.35 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.69 | 154  | 422526   | 21.64 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 13.75 | 162  | 333285   | 21.45 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.96 | 65   | 140731   | 23.14 | ng/ul  | 96       |
| 44) Dimethylphthalate          | 14.30 | 163  | 437867   | 20.12 | ng/ul  | 96       |
| 45) 2,6-Dinitrotoluene         | 14.44 | 165  | 98388    | 21.04 | ng/ul  | 92       |
| 47) Acenaphthylene             | 14.59 | 152  | 499182   | 21.16 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.78 | 138  | 89458    | 22.08 | ng/ul# | 78       |
| 49) Acenaphthene               | 14.92 | 153  | 346155   | 21.42 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 15.01 | 184  | 31341    | 10.31 | ng/ul# | 77       |
| 52) 4-Nitrophenol              | 15.10 | 109  | 95794    | 20.92 | ng/ul  | 87       |
| 53) Dibenzofuran               | 15.25 | 168  | 531398   | 20.79 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 15.23 | 165  | 143047   | 20.29 | ng/ul# | 99       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.48 | 232  | 148721   | 21.06 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.64 | 149  | 445703   | 19.34 | ng/ul  | 97       |
| 58) Fluorene                   | 15.90 | 166  | 421467   | 20.26 | ng/ul  | 96       |
| 59) 4-Chlorophenyl-phenylether | 15.88 | 204  | 231433   | 19.75 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.94 | 138  | 100857   | 20.65 | ng/ul  | 92       |
| 63) 4,6-Dinitro-2-methylphenol | 16.00 | 198  | 89238    | 19.49 | ng/ul# | 89       |
| 64) N-Nitrosodiphenylamine     | 16.10 | 169  | 393513   | 21.40 | ng/ul  | 95       |
| 65) 4-Bromophenyl-phenylether  | 16.77 | 248  | 174017   | 21.55 | ng/ul  | 96       |
| 66) Hexachlorobenzene          | 16.90 | 284  | 195926   | 21.55 | ng/ul  | 94       |
| 67) Atrazine                   | 17.04 | 200  | 174662   | 19.98 | ng/ul  | 96       |
| 68) Pentachlorophenol          | 17.26 | 266  | 107101   | 19.62 | ng/ul  | 90       |
| 69) Phenanthrene               | 17.64 | 178  | 726922   | 21.31 | ng/ul  | 98       |
| 71) Anthracene                 | 17.73 | 178  | 748406   | 21.34 | ng/ul  | 99       |
| 72) Carbazole                  | 18.01 | 167  | 663236   | 22.66 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.52 | 149  | 771462   | 20.88 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.64 | 202  | 940799   | 23.21 | ng/ul  | 97       |
| 77) Pyrene                     | 20.00 | 202  | 945067   | 20.89 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.85 | 149  | 396485   | 22.39 | ng/ul  | 92       |
| 79) 3,3'-Dichlorobenzidine     | 21.78 | 252  | 403807   | 24.62 | ng/ul  | 98       |
| 80) Benzo(a)anthracene         | 21.88 | 228  | 1048989  | 21.46 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 522742   | 21.45 | ng/ul  | 99       |
| 82) Chrysene                   | 21.95 | 228  | 975350   | 21.33 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.98 | 149  | 904630   | 23.42 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.22 | 252  | 992043   | 21.03 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 24.30 | 252  | 985344   | 21.97 | ng/ul  | 95       |
| 88) Benzo(a)pyrene             | 25.16 | 252  | 961045   | 21.19 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.27 | 276  | 1153730m | 20.47 | ng/ul  |          |
| 90) Dibenzo(a,h)anthracene     | 29.32 | 278  | 982039m  | 20.68 | ng/ul  |          |
| 91) Benzo(g,h,i)perylene       | 30.51 | 276  | 904421m  | 19.22 | ng/ul  |          |

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

