

Data Path : Z:\HPCHEM1\BNA M\DATA\BM110916\  
 Data File : BM007794.D  
 Acq On : 09 Nov 2016 13:23  
 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02051

Quant Time: Nov 09 16:38:00 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 09 16:26:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 159180   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.52 | 136  | 604804   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.37 | 164  | 401799   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.12 | 188  | 804274   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.31 | 240  | 1043940  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.56 | 264  | 1065294  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 30514   | 8.21  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.92  | 99  | 254586  | 20.72 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.08  | 67  | 152477  | 20.91 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.28  | 132 | 204878  | 21.74 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.45  | 113 | 201650  | 20.98 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.90  | 128 | 94556   | 21.72 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.62  | 143 | 102936  | 22.31 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.15 | 165 | 203474  | 22.43 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.67 | 131 | 245703  | 23.74 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 587121  | 21.46 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 717425  | 21.79 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 90131   | 20.84 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.37 | 176 | 512747  | 21.38 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 92759   | 19.41 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.22 | 188 | 794771  | 21.93 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.52 | 212 | 914234  | 21.31 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.42 | 264 | 1012614 | 21.77 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Ovalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 33047  | 8.13  | ng/uL | 96     |
| 4) Benzaldehyde                | 6.90  | 77  | 183686 | 23.64 | ng/ul | 95     |
| 6) Phenol                      | 6.95  | 94  | 265261 | 21.04 | ng/ul | 97     |
| 8) Bis(2-Chloroethyl)ether     | 7.18  | 93  | 204490 | 21.05 | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.31  | 128 | 203465 | 21.05 | ng/ul | 97     |
| 11) 2-Methylphenol             | 8.19  | 108 | 191610 | 20.87 | ng/ul | 98     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.28  | 45  | 228099 | 21.18 | ng/ul | 98     |
| 14) Acetophenone               | 8.56  | 105 | 317773 | 21.08 | ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.55  | 70  | 163783 | 21.89 | ng/ul | 95     |
| 16) 4-Methylphenol             | 8.52  | 108 | 210804 | 21.31 | ng/ul | 99     |
| 17) Hexachloroethane           | 8.80  | 117 | 91112  | 21.33 | ng/ul | 95     |
| 20) Nitrobenzene               | 8.94  | 77  | 253411 | 22.64 | ng/ul | 97     |
| 21) Isophorone                 | 9.46  | 82  | 430843 | 22.50 | ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.65  | 139 | 110892 | 23.00 | ng/ul | 98     |
| 24) 2,4-Dimethylphenol         | 9.70  | 107 | 246948 | 22.45 | ng/ul | 99     |
| 25) Bis(2-Chloroethoxy)methane | 9.94  | 93  | 258706 | 22.09 | ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.18 | 162 | 201149 | 22.51 | ng/ul | 96     |
| 28) Naphthalene                | 10.57 | 128 | 634191 | 21.55 | ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.69 | 127 | 241744 | 23.01 | ng/ul | 92     |
| 31) Hexachlorobutadiene        | 10.85 | 225 | 156656 | 21.52 | ng/ul | 99     |
| 32) Caprolactam                | 11.47 | 113 | 53549  | 21.61 | ng/ul | 96     |
| 33) 4-Chloro-3-methylphenol    | 11.82 | 107 | 215960 | 23.05 | ng/ul | 93     |
| 34) 2-Methylnaphthalene        | 12.19 | 142 | 455350 | 21.76 | ng/ul | 98     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02051

Quant Time: Nov 09 16:38:00 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 09 16:26:14 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.56 | 216  | 277052   | 21.36 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.53 | 237  | 120086   | 15.72 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.80 | 196  | 160215   | 22.21 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.88 | 196  | 169686   | 21.48 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.20 | 154  | 597071   | 21.08 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.25 | 162  | 462326   | 21.33 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.46 | 65   | 129818   | 22.58 | ng/ul  | 93       |
| 44) Dimethylphthalate          | 13.84 | 163  | 572246   | 21.54 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.96 | 165  | 113014   | 22.61 | ng/ul  | 94       |
| 47) Acenaphthylene             | 14.10 | 152  | 731365   | 21.91 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.29 | 138  | 114746   | 23.22 | ng/ul  | 96       |
| 49) Acenaphthene               | 14.44 | 153  | 488530   | 21.20 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.52 | 184  | 57012    | 18.53 | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.61 | 109  | 87868    | 20.48 | ng/ul  | 95       |
| 53) Dibenzofuran               | 14.77 | 168  | 710324   | 21.47 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.76 | 165  | 164025   | 22.75 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.01 | 232  | 155342   | 22.04 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.20 | 149  | 569810   | 21.67 | ng/ul  | 99       |
| 58) Fluorene                   | 15.43 | 166  | 581347   | 22.01 | ng/ul  | 96       |
| 59) 4-Chlorophenyl-phenylether | 15.42 | 204  | 303051   | 21.53 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.46 | 138  | 109185   | 21.91 | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.52 | 198  | 96740    | 19.60 | ng/ul  | 97       |
| 64) N-Nitrosodiphenylamine     | 15.64 | 169  | 496734   | 21.61 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.32 | 248  | 198337   | 21.62 | ng/ul  | 98       |
| 66) Hexachlorobenzene          | 16.43 | 284  | 219274   | 21.58 | ng/ul  | 99       |
| 67) Atrazine                   | 16.59 | 200  | 188499   | 21.28 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.78 | 266  | 115259   | 20.24 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.17 | 178  | 916338   | 21.43 | ng/ul  | 100      |
| 71) Anthracene                 | 17.26 | 178  | 950068   | 21.82 | ng/ul  | 99       |
| 72) Carbazole                  | 17.53 | 167  | 818826   | 21.73 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.09 | 149  | 940098   | 22.40 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.19 | 202  | 1105669  | 22.12 | ng/ul  | 99       |
| 77) Pyrene                     | 19.55 | 202  | 1153615  | 21.39 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.44 | 149  | 430663   | 22.44 | ng/ul  | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.23 | 252  | 408477   | 22.03 | ng/ul  | 100      |
| 80) Benzo(a)anthracene         | 21.30 | 228  | 1215201  | 21.78 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.22 | 149  | 631402   | 22.35 | ng/ul  | 100      |
| 82) Chrysene                   | 21.35 | 228  | 1164204  | 21.72 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.10 | 149  | 1118414  | 20.71 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.89 | 252  | 1279576  | 21.02 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 22.93 | 252  | 1222758  | 21.83 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.47 | 252  | 1242073  | 21.67 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.83 | 276  | 1481320  | 21.57 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.84 | 278  | 1239816  | 21.40 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.53 | 276  | 1224071  | 21.23 | ng/ul  | 97       |

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

