

Data Path : Z:\HPCHEM1\BNA M\DATA\BM050716\  
 Data File : BM005338.D  
 Acq On : 08 May 2016 09:43  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02055

Manual Integrations  
 APPROVED

Sohil  
 5/9/2016 7:16:11 PM

Quant Time: May 09 04:47:45 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM050516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 07 07:05:19 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 85771    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 406851   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.41 | 164  | 259109   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 628040   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 673202   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 616908   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 13947  | 7.65  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.94  | 99  | 154263 | 19.83 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 87551  | 19.73 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 119572 | 20.35 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.48  | 113 | 129263 | 20.10 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 60650  | 20.88 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 69610  | 21.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.18 | 165 | 129033 | 21.11 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.70 | 131 | 174161 | 23.67 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 419195 | 20.18 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.10 | 160 | 512526 | 21.04 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 72170  | 19.04 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.40 | 176 | 370386 | 20.65 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 72385  | 20.49 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 582692 | 20.99 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 657643 | 21.16 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.48 | 264 | 579534 | 21.22 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |             | Ovalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88  | 25333  | 7.62 ng/uL# | 97     |
| 4) Benzaldehyde                | 6.92  | 77  | 96858  | 25.70 ng/ul | 98     |
| 6) Phenol                      | 6.97  | 94  | 161310 | 20.06 ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.20  | 93  | 119654 | 19.77 ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.33  | 128 | 121845 | 20.27 ng/ul | 98     |
| 11) 2-Methylphenol             | 8.21  | 108 | 123663 | 19.90 ng/ul | 95     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.30  | 45  | 163282 | 19.89 ng/ul | 99     |
| 14) Acetophenone               | 8.59  | 105 | 198115 | 20.80 ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.58  | 70  | 101551 | 20.40 ng/ul | 98     |
| 16) 4-Methylphenol             | 8.54  | 108 | 138609 | 20.10 ng/ul | 95     |
| 17) Hexachloroethane           | 8.84  | 117 | 46797  | 20.69 ng/ul | 92     |
| 20) Nitrobenzene               | 8.97  | 77  | 149444 | 20.55 ng/ul | 96     |
| 21) Isophorone                 | 9.49  | 82  | 286956 | 20.32 ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.68  | 139 | 74482  | 21.02 ng/ul | 99     |
| 24) 2,4-Dimethylphenol         | 9.73  | 107 | 157772 | 20.99 ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.97  | 93  | 172634 | 19.63 ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.21 | 162 | 131659 | 21.03 ng/ul | 98     |
| 28) Naphthalene                | 10.60 | 128 | 417836 | 20.41 ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.72 | 127 | 175415 | 23.38 ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.89 | 225 | 80765  | 21.71 ng/ul | 97     |
| 32) Caprolactam                | 11.48 | 113 | 44866m | 19.24 ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.85 | 107 | 156135 | 20.80 ng/ul | 99     |
| 34) 2-Methylnaphthalene        | 12.22 | 142 | 312410 | 20.41 ng/ul | 98     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat May 07 07:05:19 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.59 | 216  | 166876   | 21.17 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.57 | 237  | 74867    | 18.59 | ng/ul  | 93       |
| 38) 2,4,6-Trichlorophenol      | 12.84 | 196  | 110372   | 21.02 | ng/ul  | 93       |
| 39) 2,4,5-Trichlorophenol      | 12.91 | 196  | 121773   | 20.91 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.24 | 154  | 418490   | 20.39 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.28 | 162  | 325132   | 20.95 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.49 | 65   | 102943   | 21.54 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.87 | 163  | 417353   | 20.11 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.99 | 165  | 88393    | 21.60 | ng/ul# | 91       |
| 47) Acenaphthylene             | 14.13 | 152  | 537855   | 20.87 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.32 | 138  | 94842    | 21.74 | ng/ul  | 98       |
| 49) Acenaphthene               | 14.47 | 153  | 351217   | 20.68 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 40435    | 17.17 | ng/ul  | 90       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 62873    | 19.95 | ng/ul  | 92       |
| 53) Dibenzofuran               | 14.81 | 168  | 508558   | 20.64 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 131135   | 21.49 | ng/ul  | 94       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.04 | 232  | 105006   | 21.20 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.23 | 149  | 429606   | 20.49 | ng/ul  | 100      |
| 58) Fluorene                   | 15.46 | 166  | 400260   | 20.77 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.46 | 204  | 200413   | 20.99 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.49 | 138  | 97091    | 21.00 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 76531    | 20.62 | ng/ul# | 90       |
| 64) N-Nitrosodiphenylamine     | 15.67 | 169  | 360466   | 20.96 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.35 | 248  | 128522   | 21.34 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 145360   | 21.52 | ng/ul  | 95       |
| 67) Atrazine                   | 16.62 | 200  | 139702   | 22.26 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.82 | 266  | 77849    | 20.75 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.20 | 178  | 685515   | 20.76 | ng/ul  | 100      |
| 71) Anthracene                 | 17.29 | 178  | 692671   | 21.04 | ng/ul  | 99       |
| 72) Carbazole                  | 17.56 | 167  | 630053   | 21.75 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.12 | 149  | 745322   | 21.10 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.22 | 202  | 808268   | 22.09 | ng/ul  | 98       |
| 77) Pyrene                     | 19.59 | 202  | 823947   | 21.10 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.48 | 149  | 359813   | 22.19 | ng/ul  | 100      |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 266632   | 22.03 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.34 | 228  | 800514   | 20.67 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 501417   | 22.26 | ng/ul  | 98       |
| 82) Chrysene                   | 21.39 | 228  | 770383   | 20.97 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.14 | 149  | 901483   | 25.02 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.94 | 252  | 786864   | 21.82 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.99 | 252  | 746781   | 22.00 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.53 | 252  | 714137   | 20.94 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.92 | 276  | 688689   | 18.51 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.93 | 278  | 589338   | 18.92 | ng/ul  | 98       |
| 91) Benzo(g,h,i)perylene       | 26.62 | 276  | 554706   | 17.60 | ng/ul  | 98       |

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

