

Data Path : Z:\HPCHEM1\BNA M\DATA\BM113016\  
 Data File : BM008122.D  
 Acq On : 30 Nov 2016 20:58  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02042

Manual Integrations  
 APPROVED

umangi  
 12/1/2016 3:31:39 PM

Quant Time: Dec 01 03:18:19 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM112916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 01 02:52:19 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 149073   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 565274   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.33 | 164  | 350905   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 651885   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.28 | 240  | 782940   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.52 | 264  | 787381   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 25043  | 8.30  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.88  | 99  | 211953 | 19.07 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.04  | 67  | 126954 | 19.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.23  | 132 | 166708 | 19.38 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.41  | 113 | 164779 | 19.08 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 79959  | 19.70 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 89558  | 19.39 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 161612 | 19.22 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.63 | 131 | 159727 | 19.51 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.75 | 166 | 433104 | 19.15 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 547495 | 19.71 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.57 | 143 | 53321  | 15.26 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.33 | 176 | 383657 | 19.66 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.48 | 200 | 67008  | 17.31 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 555323 | 19.80 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 621779 | 19.62 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.37 | 264 | 647155 | 19.73 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |             | Ovalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.29  | 88  | 27239  | 7.87 ng/uL# | 90     |
| 4) Benzaldehyde                | 6.86  | 77  | 162278 | 20.18 ng/ul | 97     |
| 6) Phenol                      | 6.90  | 94  | 223122 | 19.55 ng/ul | 98     |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 170700 | 19.71 ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.27  | 128 | 175172 | 19.89 ng/ul | 99     |
| 11) 2-Methylphenol             | 8.15  | 108 | 159356 | 18.84 ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.23  | 45  | 196045 | 20.37 ng/ul | 95     |
| 14) Acetophenone               | 8.52  | 105 | 267433 | 19.36 ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.50  | 70  | 139569 | 19.25 ng/ul | 98     |
| 16) 4-Methylphenol             | 8.47  | 108 | 176463 | 19.36 ng/ul | 97     |
| 17) Hexachloroethane           | 8.76  | 117 | 78795  | 20.06 ng/ul | 92     |
| 20) Nitrobenzene               | 8.90  | 77  | 203923 | 20.21 ng/ul | 99     |
| 21) Isophorone                 | 9.42  | 82  | 356242 | 19.16 ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.60  | 139 | 91066  | 19.34 ng/ul | 96     |
| 24) 2,4-Dimethylphenol         | 9.66  | 107 | 198418 | 19.63 ng/ul | 99     |
| 25) Bis(2-Chloroethoxy)methane | 9.90  | 93  | 212637 | 19.71 ng/ul | 96     |
| 27) 2,4-Dichlorophenol         | 10.13 | 162 | 160259 | 19.49 ng/ul | 97     |
| 28) Naphthalene                | 10.52 | 128 | 524635 | 19.98 ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.65 | 127 | 167588 | 19.87 ng/ul | 98     |
| 31) Hexachlorobutadiene        | 10.80 | 225 | 133161 | 20.42 ng/ul | 96     |
| 32) Caprolactam                | 11.45 | 113 | 40895m | 16.39 ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.78 | 107 | 167161 | 18.91 ng/ul | 98     |
| 34) 2-Methylnaphthalene        | 12.14 | 142 | 368055 | 19.58 ng/ul | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 222235   | 20.40 | ng/ul | 99       |
| 37) Hexachlorocyclopentadiene  | 12.48 | 237  | 81073    | 15.03 | ng/ul | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 122425   | 18.73 | ng/ul | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.85 | 196  | 132336   | 19.11 | ng/ul | 97       |
| 40) 1,1'-Biphenyl              | 13.16 | 154  | 473233   | 20.01 | ng/ul | 100      |
| 41) 2-Chloronaphthalene        | 13.20 | 162  | 361931   | 20.03 | ng/ul | 99       |
| 42) 2-Nitroaniline             | 13.43 | 65   | 100789   | 19.53 | ng/ul | 95       |
| 44) Dimethylphthalate          | 13.80 | 163  | 429937   | 19.39 | ng/ul | 98       |
| 45) 2,6-Dinitrotoluene         | 13.93 | 165  | 85250    | 19.39 | ng/ul | 97       |
| 47) Acenaphthylene             | 14.06 | 152  | 551725   | 19.67 | ng/ul | 99       |
| 48) 3-Nitroaniline             | 14.26 | 138  | 74375    | 18.03 | ng/ul | 94       |
| 49) Acenaphthene               | 14.40 | 153  | 379285   | 19.80 | ng/ul | 99       |
| 50) 2,4-Dinitrophenol          | 14.49 | 184  | 41183    | 14.83 | ng/ul | 97       |
| 52) 4-Nitrophenol              | 14.58 | 109  | 51654    | 15.73 | ng/ul | 97       |
| 53) Dibenzofuran               | 14.74 | 168  | 542070   | 19.89 | ng/ul | 100      |
| 54) 2,4-Dinitrotoluene         | 14.73 | 165  | 120093   | 19.17 | ng/ul | 100      |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 117750   | 18.94 | ng/ul | 96       |
| 56) Diethylphthalate           | 15.16 | 149  | 421794   | 17.76 | ng/ul | 98       |
| 58) Fluorene                   | 15.39 | 166  | 430991   | 19.48 | ng/ul | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.38 | 204  | 232461   | 19.85 | ng/ul | 98       |
| 60) 4-Nitroaniline             | 15.43 | 138  | 70708    | 17.10 | ng/ul | 87       |
| 63) 4,6-Dinitro-2-methylphenol | 15.50 | 198  | 70575    | 17.73 | ng/ul | 100      |
| 64) N-Nitrosodiphenylamine     | 15.60 | 169  | 362429   | 19.92 | ng/ul | 100      |
| 65) 4-Bromophenyl-phenylether  | 16.28 | 248  | 145526   | 20.03 | ng/ul | 97       |
| 66) Hexachlorobenzene          | 16.39 | 284  | 158257   | 19.79 | ng/ul | 95       |
| 67) Atrazine                   | 16.56 | 200  | 133447   | 18.72 | ng/ul | 96       |
| 68) Pentachlorophenol          | 16.74 | 266  | 79687    | 17.22 | ng/ul | 97       |
| 69) Phenanthrene               | 17.13 | 178  | 657594   | 20.17 | ng/ul | 99       |
| 71) Anthracene                 | 17.22 | 178  | 678161   | 20.39 | ng/ul | 99       |
| 72) Carbazole                  | 17.50 | 167  | 568865   | 19.69 | ng/ul | 99       |
| 73) Di-n-butylphthalate        | 18.05 | 149  | 648811   | 18.95 | ng/ul | 100      |
| 74) Fluoranthene               | 19.15 | 202  | 752799   | 19.89 | ng/ul | 99       |
| 77) Pyrene                     | 19.52 | 202  | 786085   | 19.51 | ng/ul | 99       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 289306   | 18.65 | ng/ul | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 276100   | 19.97 | ng/ul | 98       |
| 80) Benzo(a)anthracene         | 21.27 | 228  | 814776   | 20.16 | ng/ul | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 427177   | 18.27 | ng/ul | 98       |
| 82) Chrysene                   | 21.32 | 228  | 782383   | 20.50 | ng/ul | 99       |
| 84) Di-n-octyl phthalate       | 22.06 | 149  | 752659   | 18.57 | ng/ul | 99       |
| 85) Benzo(b)fluoranthene       | 22.84 | 252  | 831981   | 19.73 | ng/ul | 99       |
| 86) Benzo(k)fluoranthene       | 22.89 | 252  | 822452   | 20.69 | ng/ul | 100      |
| 88) Benzo(a)pyrene             | 23.42 | 252  | 807311   | 19.93 | ng/ul | 100      |
| 89) Indeno(1,2,3-cd)pyrene     | 25.76 | 276  | 986208   | 19.96 | ng/ul | 100      |
| 90) Dibenzo(a,h)anthracene     | 25.77 | 278  | 830573   | 19.93 | ng/ul | 98       |
| 91) Benzo(g,h,i)perylene       | 26.46 | 276  | 819783   | 19.95 | ng/ul | 98       |

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

