

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121816\  
 Data File : BM008418.D  
 Acq On : 17 Dec 2016 19:00  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02063

Manual Integrations  
 APPROVED

umangi  
 12/20/2016 10:51:37 AM

Quant Time: Dec 18 04:16:04 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 02:31:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 127321   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.43 | 136  | 492896   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.30 | 164  | 326707   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 667095   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 867613   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.49 | 264  | 867961   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 23118  | 8.54  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 201761 | 20.43 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 120795 | 21.28 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 157637 | 21.21 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.38  | 113 | 156200 | 20.42 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 76578  | 21.50 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.53  | 143 | 84651  | 21.45 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 159252 | 22.01 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.59 | 131 | 182401 | 22.00 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.72 | 166 | 455496 | 20.97 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.99 | 160 | 560066 | 21.82 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 50191  | 15.69 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.30 | 176 | 404663 | 21.44 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 70841  | 17.84 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 626690 | 21.56 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 744621 | 22.22 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 803138 | 22.04 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |             | Ovalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.26  | 88  | 27045  | 8.55 ng/uL# | 96     |
| 4) Benzaldehyde                | 6.83  | 77  | 150860 | 23.08 ng/ul | 96     |
| 6) Phenol                      | 6.88  | 94  | 212439 | 20.71 ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.10  | 93  | 159529 | 20.84 ng/ul | 97     |
| 10) 2-Chlorophenol             | 7.23  | 128 | 162683 | 21.67 ng/ul | 97     |
| 11) 2-Methylphenol             | 8.11  | 108 | 153754 | 20.48 ng/ul | 97     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.19  | 45  | 187221 | 21.51 ng/ul | 100    |
| 14) Acetophenone               | 8.49  | 105 | 252230 | 20.17 ng/ul | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.46  | 70  | 135120 | 21.02 ng/ul | 98     |
| 16) 4-Methylphenol             | 8.44  | 108 | 166575 | 20.46 ng/ul | 96     |
| 17) Hexachloroethane           | 8.71  | 117 | 73454  | 21.46 ng/ul | 93     |
| 20) Nitrobenzene               | 8.86  | 77  | 203265 | 22.14 ng/ul | 99     |
| 21) Isophorone                 | 9.38  | 82  | 353863 | 21.43 ng/ul | 100    |
| 23) 2-Nitrophenol              | 9.57  | 139 | 87248  | 21.61 ng/ul | 96     |
| 24) 2,4-Dimethylphenol         | 9.63  | 107 | 194241 | 21.54 ng/ul | 97     |
| 25) Bis(2-Chloroethoxy)methane | 9.86  | 93  | 201479 | 21.49 ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 10.10 | 162 | 158742 | 21.78 ng/ul | 94     |
| 28) Naphthalene                | 10.48 | 128 | 503552 | 21.58 ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.62 | 127 | 185241 | 22.17 ng/ul | 98     |
| 31) Hexachlorobutadiene        | 10.75 | 225 | 128341 | 21.66 ng/ul | 97     |
| 32) Caprolactam                | 11.41 | 113 | 43533m | 19.03 ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.75 | 107 | 169583 | 21.50 ng/ul | 99     |
| 34) 2-Methylnaphthalene        | 12.10 | 142 | 362748 | 21.52 ng/ul | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.48 | 216  | 224615   | 21.96 | ng/ul | 100      |
| 37) Hexachlorocyclopentadiene  | 12.44 | 237  | 113733   | 27.53 | ng/ul | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.73 | 196  | 125911   | 21.68 | ng/ul | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.82 | 196  | 133659   | 21.10 | ng/ul | 98       |
| 40) 1,1'-Biphenyl              | 13.13 | 154  | 472664   | 21.69 | ng/ul | 99       |
| 41) 2-Chloronaphthalene        | 13.17 | 162  | 363052   | 21.73 | ng/ul | 98       |
| 42) 2-Nitroaniline             | 13.40 | 65   | 110369   | 22.33 | ng/ul | 99       |
| 44) Dimethylphthalate          | 13.76 | 163  | 447132   | 21.01 | ng/ul | 98       |
| 45) 2,6-Dinitrotoluene         | 13.90 | 165  | 90859    | 21.91 | ng/ul | 96       |
| 47) Acenaphthylene             | 14.02 | 152  | 564206   | 21.60 | ng/ul | 98       |
| 48) 3-Nitroaniline             | 14.24 | 138  | 87878    | 21.27 | ng/ul | 93       |
| 49) Acenaphthene               | 14.36 | 153  | 390184   | 21.74 | ng/ul | 98       |
| 50) 2,4-Dinitrophenol          | 14.48 | 184  | 41281    | 17.16 | ng/ul | 98       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 68490m   | 22.32 | ng/ul |          |
| 53) Dibenzofuran               | 14.70 | 168  | 563475   | 21.54 | ng/ul | 97       |
| 54) 2,4-Dinitrotoluene         | 14.71 | 165  | 131010   | 21.10 | ng/ul | 91       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.94 | 232  | 122181   | 20.89 | ng/ul | 97       |
| 56) Diethylphthalate           | 15.13 | 149  | 448839   | 21.20 | ng/ul | 99       |
| 58) Fluorene                   | 15.36 | 166  | 461436   | 21.47 | ng/ul | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.35 | 204  | 244661   | 21.42 | ng/ul | 99       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 82794    | 20.82 | ng/ul | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 71040    | 17.46 | ng/ul | 94       |
| 64) N-Nitrosodiphenylamine     | 15.57 | 169  | 392573   | 21.62 | ng/ul | 95       |
| 65) 4-Bromophenyl-phenylether  | 16.25 | 248  | 159681   | 21.80 | ng/ul | 98       |
| 66) Hexachlorobenzene          | 16.36 | 284  | 177253   | 21.36 | ng/ul | 98       |
| 67) Atrazine                   | 16.53 | 200  | 150668   | 20.25 | ng/ul | 98       |
| 68) Pentachlorophenol          | 16.72 | 266  | 81758    | 18.21 | ng/ul | 98       |
| 69) Phenanthrene               | 17.10 | 178  | 729165   | 21.33 | ng/ul | 100      |
| 71) Anthracene                 | 17.19 | 178  | 752996   | 21.70 | ng/ul | 98       |
| 72) Carbazole                  | 17.47 | 167  | 647199   | 21.18 | ng/ul | 99       |
| 73) Di-n-butylphthalate        | 18.02 | 149  | 726697   | 21.26 | ng/ul | 99       |
| 74) Fluoranthene               | 19.12 | 202  | 882666   | 21.02 | ng/ul | 99       |
| 77) Pyrene                     | 19.49 | 202  | 936056   | 21.97 | ng/ul | 99       |
| 78) Butylbenzylphthalate       | 20.39 | 149  | 332344   | 21.75 | ng/ul | 100      |
| 79) 3,3'-Dichlorobenzidine     | 21.18 | 252  | 328274   | 21.59 | ng/ul | 99       |
| 80) Benzo(a)anthracene         | 21.24 | 228  | 974485   | 21.73 | ng/ul | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.16 | 149  | 483095   | 21.59 | ng/ul | 99       |
| 82) Chrysene                   | 21.29 | 228  | 944820   | 21.91 | ng/ul | 100      |
| 84) Di-n-octyl phthalate       | 22.03 | 149  | 869955   | 20.89 | ng/ul | 99       |
| 85) Benzo(b)fluoranthene       | 22.82 | 252  | 1043912  | 22.28 | ng/ul | 99       |
| 86) Benzo(k)fluoranthene       | 22.86 | 252  | 962977   | 21.48 | ng/ul | 99       |
| 88) Benzo(a)pyrene             | 23.39 | 252  | 990308   | 21.94 | ng/ul | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.72 | 276  | 1201791  | 21.93 | ng/ul | 100      |
| 90) Dibenzo(a,h)anthracene     | 25.72 | 278  | 1007264  | 21.88 | ng/ul | 99       |
| 91) Benzo(g,h,i)perylene       | 26.40 | 276  | 990150   | 21.60 | ng/ul | 99       |

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

