

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052717\  
 Data File : BM010286.D  
 Acq On : 27 May 2017 21:32  
 Operator : SJ/MA  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02007

Manual Integrations  
 APPROVED

mohammad  
 5/30/2017 4:41:14 PM

Quant Time: May 30 16:02:58 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 30 15:28:56 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.93  | 152  | 323749   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.73 | 136  | 1172216  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.56 | 164  | 713533   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.31 | 188  | 1646074  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.47 | 240  | 2277417  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.82 | 264  | 2342046  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |          |       |       |      |
|--------------------------------|-------|-----|----------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.39  | 96  | 67820    | 8.59  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.12  | 99  | 470525   | 19.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.27  | 67  | 264421   | 19.18 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.47  | 132 | 391959   | 20.04 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.65  | 113 | 366224   | 18.50 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.12  | 128 | 176609   | 20.57 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.83  | 143 | 203651   | 20.47 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.36 | 165 | 397890   | 19.47 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.90 | 131 | 424772   | 21.55 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.97 | 166 | 1190847  | 20.09 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.26 | 160 | 1369935  | 19.81 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.80 | 143 | 156831   | 17.68 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.55 | 176 | 1019269  | 19.56 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.68 | 200 | 211178   | 18.11 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.40 | 188 | 1565383m | 19.54 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.69 | 212 | 1851067  | 19.66 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.67 | 264 | 2154629  | 19.76 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       | Ovalue    |
|--------------------------------|-------|-----|---------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.42  | 88  | 71771   | 8.53  | ng/uL# 54 |
| 4) Benzaldehyde                | 7.09  | 77  | 357451  | 21.67 | ng/ul 95  |
| 6) Phenol                      | 7.14  | 94  | 484075  | 19.25 | ng/ul 94  |
| 8) Bis(2-Chloroethyl)ether     | 7.36  | 93  | 342732  | 19.64 | ng/ul 92  |
| 10) 2-Chlorophenol             | 7.50  | 128 | 395586  | 20.16 | ng/ul 92  |
| 11) 2-Methylphenol             | 8.39  | 108 | 348705  | 18.99 | ng/ul 99  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.46  | 45  | 154417  | 19.62 | ng/ul# 60 |
| 14) Acetophenone               | 8.77  | 105 | 581062  | 17.99 | ng/ul# 90 |
| 15) N-Nitroso-di-n-propylamine | 8.74  | 70  | 321658  | 19.92 | ng/ul# 81 |
| 16) 4-Methylphenol             | 8.72  | 108 | 380249  | 18.88 | ng/ul 91  |
| 17) Hexachloroethane           | 9.00  | 117 | 175370  | 19.68 | ng/ul 90  |
| 20) Nitrobenzene               | 9.16  | 77  | 473198  | 19.30 | ng/ul 98  |
| 21) Isophorone                 | 9.66  | 82  | 758631  | 20.10 | ng/ul 97  |
| 23) 2-Nitrophenol              | 9.86  | 139 | 205333  | 19.47 | ng/ul 93  |
| 24) 2,4-Dimethylphenol         | 9.91  | 107 | 480533  | 19.60 | ng/ul 97  |
| 25) Bis(2-Chloroethoxy)methane | 10.15 | 93  | 426947  | 20.13 | ng/ul 93  |
| 27) 2,4-Dichlorophenol         | 10.39 | 162 | 397842  | 19.87 | ng/ul# 90 |
| 28) Naphthalene                | 10.79 | 128 | 1168412 | 19.87 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.92 | 127 | 385580  | 20.26 | ng/ul 90  |
| 31) Hexachlorobutadiene        | 11.03 | 225 | 359362  | 19.59 | ng/ul 94  |
| 32) Caprolactam                | 11.73 | 113 | 98456m  | 19.65 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 12.03 | 107 | 388552  | 20.16 | ng/ul 98  |
| 34) 2-Methylnaphthalene        | 12.39 | 142 | 877034  | 19.67 | ng/ul 97  |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.74 | 216  | 571852   | 19.27 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.70 | 237  | 361996   | 18.19 | ng/ul# | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.00 | 196  | 332182   | 19.69 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 13.07 | 196  | 341100   | 20.04 | ng/ul  | 100      |
| 40) 1,1'-Biphenyl              | 13.39 | 154  | 1152121  | 19.90 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.45 | 162  | 898327   | 19.75 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.68 | 65   | 234215   | 20.22 | ng/ul  | 90       |
| 44) Dimethylphthalate          | 14.02 | 163  | 1133352  | 19.44 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.16 | 165  | 216100   | 20.22 | ng/ul# | 91       |
| 47) Acenaphthylene             | 14.29 | 152  | 1349718  | 19.97 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.51 | 138  | 190636   | 18.52 | ng/ul  | 95       |
| 49) Acenaphthene               | 14.63 | 153  | 927170   | 19.56 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.70 | 184  | 144891   | 17.94 | ng/ul  | 95       |
| 52) 4-Nitrophenol              | 14.82 | 109  | 207182   | 17.04 | ng/ul  | 95       |
| 53) Dibenzofuran               | 14.96 | 168  | 1361890  | 19.43 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 14.94 | 165  | 315768   | 20.12 | ng/ul  | 97       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.19 | 232  | 329306   | 20.14 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.37 | 149  | 1120697  | 19.87 | ng/ul  | 95       |
| 58) Fluorene                   | 15.61 | 166  | 1128428  | 19.63 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.60 | 204  | 645503   | 19.65 | ng/ul  | 93       |
| 60) 4-Nitroaniline             | 15.67 | 138  | 192524   | 17.86 | ng/ul  | 88       |
| 63) 4,6-Dinitro-2-methylphenol | 15.69 | 198  | 218787   | 17.71 | ng/ul  | 94       |
| 64) N-Nitrosodiphenylamine     | 15.82 | 169  | 938465   | 19.56 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.49 | 248  | 389914   | 19.25 | ng/ul# | 92       |
| 66) Hexachlorobenzene          | 16.59 | 284  | 420886   | 19.84 | ng/ul# | 93       |
| 67) Atrazine                   | 16.77 | 200  | 395413   | 18.96 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 16.95 | 266  | 246830   | 18.28 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.35 | 178  | 1739273  | 19.79 | ng/ul  | 99       |
| 71) Anthracene                 | 17.44 | 178  | 1810746  | 19.74 | ng/ul  | 99       |
| 72) Carbazole                  | 17.73 | 167  | 1487883  | 19.16 | ng/ul  | 97       |
| 73) Di-n-butylphthalate        | 18.24 | 149  | 1737227  | 19.82 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.36 | 202  | 2179073  | 20.16 | ng/ul  | 99       |
| 77) Pyrene                     | 19.72 | 202  | 2314163  | 19.72 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.59 | 149  | 847575   | 20.90 | ng/ul  | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.40 | 252  | 839362   | 18.78 | ng/ul  | 95       |
| 80) Benzo(a)anthracene         | 21.45 | 228  | 2538940  | 19.77 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 1257309  | 20.83 | ng/ul# | 98       |
| 82) Chrysene                   | 21.50 | 228  | 2273938  | 19.59 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.24 | 149  | 2269901  | 21.06 | ng/ul# | 93       |
| 85) Benzo(b)fluoranthene       | 23.10 | 252  | 2672378m | 19.61 | ng/ul  |          |
| 86) Benzo(k)fluoranthene       | 23.14 | 252  | 2593666  | 19.92 | ng/ul  | 98       |
| 88) Benzo(a)pyrene             | 23.72 | 252  | 2650254  | 19.62 | ng/ul  | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.21 | 276  | 3279683  | 19.22 | ng/ul  | 97       |
| 90) Dibenzo(a,h)anthracene     | 26.23 | 278  | 2838513  | 19.31 | ng/ul# | 98       |
| 91) Benzo(g,h,i)perylene       | 26.96 | 276  | 2707282  | 19.26 | ng/ul# | 97       |

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

