

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM043016\  
 Data File : BM005165.D  
 Acq On : 30 Apr 2016 08:06  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02056

Manual Integrations  
 APPROVED

sohil  
 5/2/2016 8:51:55 AM

Quant Time: May 01 03:33:56 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Apr 30 03:07:27 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 45720    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.58 | 136  | 214768   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 134427   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.18 | 188  | 310094   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 321331   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.65 | 264  | 274769   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 7525   | 8.36  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.95  | 99  | 82406  | 21.79 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 48802  | 22.68 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.32  | 132 | 63633  | 21.27 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 68656  | 21.41 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.94  | 128 | 31908  | 21.45 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.66  | 143 | 31838  | 19.19 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 67989  | 21.57 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.71 | 131 | 91996  | 24.90 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.84 | 166 | 217376 | 20.48 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.12 | 160 | 263649 | 20.85 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.64 | 143 | 36719  | 19.79 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.42 | 176 | 187968 | 20.15 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.55 | 200 | 28169  | 15.97 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 292723 | 21.05 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.57 | 212 | 321111 | 21.95 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.50 | 264 | 253539 | 20.59 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 13544  | 8.11  | ng/uL | 95     |
| 4) Benzaldehyde                | 6.93  | 77  | 51681  | 27.52 | ng/ul | 96     |
| 6) Phenol                      | 6.98  | 94  | 86441  | 21.93 | ng/ul | 98     |
| 8) Bis(2-Chloroethyl)ether     | 7.21  | 93  | 65511  | 21.67 | ng/ul | 96     |
| 10) 2-Chlorophenol             | 7.35  | 128 | 64444  | 20.96 | ng/ul | 96     |
| 11) 2-Methylphenol             | 8.23  | 108 | 66266  | 21.53 | ng/ul | 96     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.32  | 45  | 91708  | 23.46 | ng/ul | 98     |
| 14) Acetophenone               | 8.61  | 105 | 107917 | 22.36 | ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.59  | 70  | 55292  | 22.88 | ng/ul | 94     |
| 16) 4-Methylphenol             | 8.55  | 108 | 73604  | 21.50 | ng/ul | 98     |
| 17) Hexachloroethane           | 8.86  | 117 | 25740  | 21.02 | ng/ul | 93     |
| 20) Nitrobenzene               | 8.98  | 77  | 80304  | 21.94 | ng/ul | 97     |
| 21) Isophorone                 | 9.51  | 82  | 160271 | 23.06 | ng/ul | 98     |
| 23) 2-Nitrophenol              | 9.70  | 139 | 35991  | 19.95 | ng/ul | 91     |
| 24) 2,4-Dimethylphenol         | 9.75  | 107 | 81155  | 20.90 | ng/ul | 100    |
| 25) Bis(2-Chloroethoxy)methane | 9.99  | 93  | 94298  | 21.83 | ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.23 | 162 | 68398  | 21.11 | ng/ul | 98     |
| 28) Naphthalene                | 10.63 | 128 | 223195 | 20.61 | ng/ul | 100    |
| 30) 4-Chloroaniline            | 10.74 | 127 | 92951  | 24.71 | ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.91 | 225 | 41578  | 19.45 | ng/ul | 98     |
| 32) Caprolactam                | 11.50 | 113 | 23307m | 20.80 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.87 | 107 | 81670  | 22.04 | ng/ul | 98     |
| 34) 2-Methylnaphthalene        | 12.24 | 142 | 165462 | 20.64 | ng/ul | 99     |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.61 | 216  | 85640    | 20.39 | ng/ul | 98       |
| 37) Hexachlorocyclopentadiene  | 12.59 | 237  | 40639    | 16.31 | ng/ul | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.85 | 196  | 55449    | 20.76 | ng/ul | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.93 | 196  | 62988    | 21.05 | ng/ul | 99       |
| 40) 1,1'-Biphenyl              | 13.25 | 154  | 219874   | 20.68 | ng/ul | 100      |
| 41) 2-Chloronaphthalene        | 13.30 | 162  | 167304   | 20.68 | ng/ul | 99       |
| 42) 2-Nitroaniline             | 13.51 | 65   | 50464    | 23.00 | ng/ul | 93       |
| 44) Dimethylphthalate          | 13.88 | 163  | 217593   | 20.44 | ng/ul | 100      |
| 45) 2,6-Dinitrotoluene         | 14.01 | 165  | 43079    | 20.95 | ng/ul | 91       |
| 47) Acenaphthylene             | 14.15 | 152  | 280502   | 20.97 | ng/ul | 100      |
| 48) 3-Nitroaniline             | 14.34 | 138  | 48154    | 23.02 | ng/ul | 98       |
| 49) Acenaphthene               | 14.49 | 153  | 183552   | 20.85 | ng/ul | 99       |
| 50) 2,4-Dinitrophenol          | 14.55 | 184  | 14331    | 11.94 | ng/ul | 96       |
| 52) 4-Nitrophenol              | 14.65 | 109  | 31006    | 18.69 | ng/ul | 93       |
| 53) Dibenzofuran               | 14.82 | 168  | 261756   | 20.17 | ng/ul | 97       |
| 54) 2,4-Dinitrotoluene         | 14.80 | 165  | 64538    | 20.66 | ng/ul | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.05 | 232  | 51407    | 19.79 | ng/ul | 96       |
| 56) Diethylphthalate           | 15.25 | 149  | 222266   | 20.68 | ng/ul | 99       |
| 58) Fluorene                   | 15.48 | 166  | 209179   | 20.76 | ng/ul | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.47 | 204  | 103309   | 20.32 | ng/ul | 99       |
| 60) 4-Nitroaniline             | 15.51 | 138  | 49888    | 22.11 | ng/ul | 97       |
| 63) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 31560    | 16.99 | ng/ul | 98       |
| 64) N-Nitrosodiphenylamine     | 15.69 | 169  | 184446   | 21.64 | ng/ul | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.37 | 248  | 63355    | 20.93 | ng/ul | 99       |
| 66) Hexachlorobenzene          | 16.48 | 284  | 69408    | 20.13 | ng/ul | 98       |
| 67) Atrazine                   | 16.64 | 200  | 68887    | 21.93 | ng/ul | 97       |
| 68) Pentachlorophenol          | 16.82 | 266  | 37185    | 18.70 | ng/ul | 99       |
| 69) Phenanthrene               | 17.22 | 178  | 341108   | 20.67 | ng/ul | 99       |
| 71) Anthracene                 | 17.31 | 178  | 352153   | 21.17 | ng/ul | 99       |
| 72) Carbazole                  | 17.58 | 167  | 318302   | 22.31 | ng/ul | 99       |
| 73) Di-n-butylphthalate        | 18.14 | 149  | 386958   | 23.17 | ng/ul | 100      |
| 74) Fluoranthene               | 19.24 | 202  | 399002   | 21.97 | ng/ul | 99       |
| 77) Pyrene                     | 19.60 | 202  | 405897   | 21.87 | ng/ul | 99       |
| 78) Butylbenzylphthalate       | 20.50 | 149  | 177900   | 24.92 | ng/ul | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.28 | 252  | 125447   | 21.83 | ng/ul | 97       |
| 80) Benzo(a)anthracene         | 21.35 | 228  | 382952   | 20.82 | ng/ul | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.27 | 149  | 258250   | 25.76 | ng/ul | 100      |
| 82) Chrysene                   | 21.40 | 228  | 364314   | 20.70 | ng/ul | 99       |
| 84) Di-n-octyl phthalate       | 22.16 | 149  | 452826   | 26.51 | ng/ul | 98       |
| 85) Benzo(b)fluoranthene       | 22.96 | 252  | 351198   | 21.22 | ng/ul | 99       |
| 86) Benzo(k)fluoranthene       | 23.01 | 252  | 326856   | 20.31 | ng/ul | 100      |
| 88) Benzo(a)pyrene             | 23.55 | 252  | 317419   | 20.54 | ng/ul | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.95 | 276  | 308103   | 20.90 | ng/ul | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.96 | 278  | 260187   | 21.12 | ng/ul | 99       |
| 91) Benzo(g,h,i)perylene       | 26.66 | 276  | 250764   | 20.79 | ng/ul | 99       |

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

