

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM050516\  
 Data File : BM005274.D  
 Acq On : 06 May 2016 17:42  
 Operator : UM/SJ  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02049

Manual Integrations  
 APPROVED

sohil  
 5/6/2016 7:15:25 PM

Quant Time: May 06 18:37:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM050516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 06 04:26:22 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 77535    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 382493   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.42 | 164  | 250502   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 596294   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 672676   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 665886   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 12689  | 7.69  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.95  | 99  | 141734 | 20.15 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 82104  | 20.47 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 109079 | 20.54 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.48  | 113 | 120943 | 20.81 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 55934  | 20.48 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 63460  | 20.52 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.19 | 165 | 121001 | 21.06 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.70 | 131 | 164295 | 23.75 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 402975 | 20.07 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.10 | 160 | 485291 | 20.61 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 70157  | 19.14 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.41 | 176 | 353920 | 20.41 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 70248  | 20.94 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 554925 | 21.05 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 640323 | 20.62 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.49 | 264 | 606943 | 20.59 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |             | Qvalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88  | 23090  | 7.68 ng/uL# | 95     |
| 4) Benzaldehyde                | 6.92  | 77  | 87085  | 25.56 ng/ul | 98     |
| 6) Phenol                      | 6.97  | 94  | 149715 | 20.60 ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.20  | 93  | 112253 | 20.51 ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.34  | 128 | 111523 | 20.53 ng/ul | 99     |
| 11) 2-Methylphenol             | 8.22  | 108 | 114398 | 20.36 ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.30  | 45  | 153406 | 20.67 ng/ul | 99     |
| 14) Acetophenone               | 8.59  | 105 | 187907 | 21.82 ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.57  | 70  | 94782  | 21.07 ng/ul | 99     |
| 16) 4-Methylphenol             | 8.55  | 108 | 130292 | 20.90 ng/ul | 95     |
| 17) Hexachloroethane           | 8.84  | 117 | 41838  | 20.46 ng/ul | 99     |
| 20) Nitrobenzene               | 8.97  | 77  | 139507 | 20.40 ng/ul | 97     |
| 21) Isophorone                 | 9.49  | 82  | 272229 | 20.51 ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.68  | 139 | 68920  | 20.69 ng/ul | 99     |
| 24) 2,4-Dimethylphenol         | 9.74  | 107 | 147256 | 20.84 ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.97  | 93  | 164089 | 19.85 ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 10.21 | 162 | 122447 | 20.81 ng/ul | 98     |
| 28) Naphthalene                | 10.61 | 128 | 394305 | 20.49 ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.72 | 127 | 168269 | 23.86 ng/ul | 99     |
| 31) Hexachlorobutadiene        | 10.89 | 225 | 72509  | 20.73 ng/ul | 97     |
| 32) Caprolactam                | 11.48 | 113 | 42293m | 19.29 ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.85 | 107 | 148976 | 21.11 ng/ul | 97     |
| 34) 2-Methylnaphthalene        | 12.22 | 142 | 298098 | 20.71 ng/ul | 99     |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

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 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 06 04:26:22 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.60 | 216  | 156027   | 20.48 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.57 | 237  | 71668    | 18.41 | ng/ul  | 93       |
| 38) 2,4,6-Trichlorophenol      | 12.84 | 196  | 101575   | 20.01 | ng/ul  | 94       |
| 39) 2,4,5-Trichlorophenol      | 12.92 | 196  | 115609   | 20.53 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.25 | 154  | 400255   | 20.17 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.29 | 162  | 306397   | 20.42 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.50 | 65   | 94240    | 20.40 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.87 | 163  | 404044   | 20.14 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.00 | 165  | 83030    | 20.99 | ng/ul# | 87       |
| 47) Acenaphthylene             | 14.13 | 152  | 516294   | 20.72 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.33 | 138  | 89849    | 21.30 | ng/ul  | 96       |
| 49) Acenaphthene               | 14.48 | 153  | 337277   | 20.54 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 38093    | 16.73 | ng/ul  | 94       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 59948    | 19.67 | ng/ul  | 97       |
| 53) Dibenzofuran               | 14.82 | 168  | 490553   | 20.59 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 124229   | 21.06 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.04 | 232  | 99630    | 20.81 | ng/ul# | 98       |
| 56) Diethylphthalate           | 15.24 | 149  | 408018   | 20.13 | ng/ul  | 99       |
| 58) Fluorene                   | 15.46 | 166  | 389349   | 20.90 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.46 | 204  | 193430   | 20.96 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.49 | 138  | 95349    | 21.33 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.55 | 198  | 74183    | 21.05 | ng/ul# | 92       |
| 64) N-Nitrosodiphenylamine     | 15.67 | 169  | 349586   | 21.41 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.35 | 248  | 122274   | 21.39 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 136045   | 21.22 | ng/ul  | 99       |
| 67) Atrazine                   | 16.63 | 200  | 132175   | 22.18 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.82 | 266  | 71185    | 19.98 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.20 | 178  | 657222   | 20.96 | ng/ul  | 100      |
| 71) Anthracene                 | 17.30 | 178  | 673296   | 21.54 | ng/ul  | 100      |
| 72) Carbazole                  | 17.57 | 167  | 611820   | 22.25 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.13 | 149  | 702192   | 20.93 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.22 | 202  | 786952   | 22.65 | ng/ul  | 99       |
| 77) Pyrene                     | 19.59 | 202  | 813107   | 20.84 | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.49 | 149  | 330656   | 20.41 | ng/ul  | 100      |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 262316   | 21.69 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.34 | 228  | 790497   | 20.43 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 469693   | 20.87 | ng/ul  | 99       |
| 82) Chrysene                   | 21.40 | 228  | 770431   | 20.99 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.15 | 149  | 849366   | 21.84 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.95 | 252  | 800587   | 20.57 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.99 | 252  | 783805   | 21.39 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.53 | 252  | 764438   | 20.76 | ng/ul  | 100      |
| 89) Indeno(1,2,3-cd)pyrene     | 25.93 | 276  | 776840   | 19.34 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.94 | 278  | 662500   | 19.71 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.63 | 276  | 628764   | 18.48 | ng/ul  | 98       |

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

