

Data Path : Z:\HPCHEM1\BNA M\DATA\BM071416\  
 Data File : BM006412.D  
 Acq On : 14 Jul 2016 14:13  
 Operator : UM/SJ  
 Sample : SSTD01056  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Jul 14 16:10:09 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 14 16:09:17 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 83507    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.40 | 136  | 339715   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.27 | 164  | 204801   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.02 | 188  | 496159   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.23 | 240  | 633791   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.43 | 264  | 706124   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.14  | 96  | 8106   | 4.15  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.80  | 99  | 68613  | 8.78  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67  | 43382  | 9.40  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.16  | 132 | 55960  | 9.35  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.33  | 113 | 53933  | 8.52  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.77  | 128 | 25714  | 9.50  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.49  | 143 | 28951  | 9.44  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 55740  | 10.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.55 | 131 | 60720  | 10.51 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.69 | 166 | 170806 | 9.99  | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.96 | 160 | 212016 | 10.02 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 27992  | 8.64  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.27 | 176 | 156513 | 10.62 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 26057  | 8.96  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.12 | 188 | 247468 | 10.45 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.43 | 212 | 294989 | 9.76  | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.29 | 264 | 343267 | 10.46 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.18  | 88  | 8645   | 4.04  | ng/uL# 1  |
| 4) Benzaldehyde                | 6.77  | 77  | 47804  | 10.57 | ng/ul 95  |
| 6) Phenol                      | 6.83  | 94  | 72615  | 8.94  | ng/ul 94  |
| 8) Bis(2-Chloroethyl)ether     | 7.05  | 93  | 54584  | 9.09  | ng/ul 95  |
| 10) 2-Chlorophenol             | 7.19  | 128 | 56999  | 9.20  | ng/ul 97  |
| 11) 2-Methylphenol             | 8.07  | 108 | 52758  | 8.48  | ng/ul 96  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.16  | 45  | 89099  | 9.94  | ng/ul 98  |
| 14) Acetophenone               | 8.44  | 105 | 89604  | 9.29  | ng/ul 97  |
| 15) N-Nitroso-di-n-propylamine | 8.42  | 70  | 45165  | 8.20  | ng/ul 93  |
| 16) 4-Methylphenol             | 8.39  | 108 | 59182  | 8.76  | ng/ul 96  |
| 17) Hexachloroethane           | 8.69  | 117 | 24509  | 9.66  | ng/ul 93  |
| 20) Nitrobenzene               | 8.82  | 77  | 70267  | 9.98  | ng/ul 98  |
| 21) Isophorone                 | 9.33  | 82  | 123804 | 9.23  | ng/ul 99  |
| 23) 2-Nitrophenol              | 9.52  | 139 | 32217  | 9.75  | ng/ul 93  |
| 24) 2,4-Dimethylphenol         | 9.59  | 107 | 69345  | 9.93  | ng/ul 94  |
| 25) Bis(2-Chloroethoxy)methane | 9.82  | 93  | 74469  | 9.29  | ng/ul 99  |
| 27) 2,4-Dichlorophenol         | 10.06 | 162 | 55956  | 10.17 | ng/ul 98  |
| 28) Naphthalene                | 10.45 | 128 | 176426 | 10.09 | ng/ul 98  |
| 30) 4-Chloroaniline            | 10.57 | 127 | 63554  | 10.59 | ng/ul 99  |
| 31) Hexachlorobutadiene        | 10.73 | 225 | 38663  | 11.24 | ng/ul 97  |
| 32) Caprolactam                | 11.32 | 113 | 16197  | 7.43  | ng/ul 95  |
| 33) 4-Chloro-3-methylphenol    | 11.70 | 107 | 62106  | 9.25  | ng/ul 97  |
| 34) 2-Methylnaphthalene        | 12.07 | 142 | 135508 | 10.22 | ng/ul 100 |

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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 | 12.45 | 216  | 73588    | 10.81 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.42 | 237  | 31858    | 8.23  | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.69 | 196  | 47133    | 9.79  | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.77 | 196  | 45510    | 9.06  | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.10 | 154  | 174829   | 10.35 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.14 | 162  | 135086   | 10.26 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.35 | 65   | 43422    | 8.65  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.73 | 163  | 175873   | 10.24 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.86 | 165  | 31752    | 8.53  | ng/ul  | 89       |
| 47) Acenaphthylene             | 13.99 | 152  | 221645   | 9.98  | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.19 | 138  | 31869    | 9.37  | ng/ul  | 98       |
| 49) Acenaphthene               | 14.33 | 153  | 145416   | 10.31 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.40 | 184  | 14129    | 6.82  | ng/ul  | 94       |
| 52) 4-Nitrophenol              | 14.50 | 109  | 31545    | 9.69  | ng/ul  | 96       |
| 53) Dibenzofuran               | 14.67 | 168  | 209020   | 10.38 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 14.65 | 165  | 50170    | 9.54  | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.90 | 232  | 42860    | 9.46  | ng/ul  | 96       |
| 56) Diethylphthalate           | 15.10 | 149  | 181288   | 10.11 | ng/ul  | 99       |
| 58) Fluorene                   | 15.33 | 166  | 170423   | 10.55 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.32 | 204  | 87410    | 11.03 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.35 | 138  | 39684    | 9.89  | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 198  | 27731    | 8.88  | ng/ul# | 97       |
| 64) N-Nitrosodiphenylamine     | 15.54 | 169  | 152599   | 10.18 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.22 | 248  | 57291    | 10.31 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.33 | 284  | 64554    | 10.53 | ng/ul  | 97       |
| 67) Atrazine                   | 16.49 | 200  | 59036    | 10.66 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.68 | 266  | 25725    | 7.89  | ng/ul  | 92       |
| 69) Phenanthrene               | 17.06 | 178  | 287878   | 10.40 | ng/ul  | 99       |
| 71) Anthracene                 | 17.16 | 178  | 299843   | 10.49 | ng/ul  | 99       |
| 72) Carbazole                  | 17.43 | 167  | 264396   | 11.03 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.00 | 149  | 333463   | 10.13 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.09 | 202  | 363750   | 11.81 | ng/ul  | 97       |
| 77) Pyrene                     | 19.45 | 202  | 395390   | 9.95  | ng/ul  | 98       |
| 78) Butylbenzylphthalate       | 20.36 | 149  | 164597   | 9.06  | ng/ul  | 99       |
| 79) 3,3'-Dichlorobenzidine     | 21.14 | 252  | 143713   | 12.26 | ng/ul  | 98       |
| 80) Benzo(a)anthracene         | 21.21 | 228  | 410605   | 10.56 | ng/ul  | 100      |
| 81) Bis(2-ethylhexyl)phthalate | 21.14 | 149  | 244847   | 10.05 | ng/ul  | 98       |
| 82) Chrysene                   | 21.26 | 228  | 392002   | 11.04 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.02 | 149  | 459656   | 10.96 | ng/ul  | 97       |
| 85) Benzo(b)fluoranthene       | 22.77 | 252  | 466583   | 11.16 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.81 | 252  | 413805   | 10.64 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.33 | 252  | 433812   | 10.72 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.63 | 276  | 509908   | 11.02 | ng/ul  | 97       |
| 90) Dibenzo(a,h)anthracene     | 25.64 | 278  | 426009   | 11.16 | ng/ul  | 98       |
| 91) Benzo(g,h,i)perylene       | 26.30 | 276  | 435077   | 10.90 | ng/ul  | 98       |

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

