

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM041515\SOM01.2\  
 Data File : BM001012.D  
 Acq On : 15 Apr 2015 16:29  
 Operator : TP/IZ  
 Sample : SSTD08025  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD08025

Manual Integrations  
 APPROVED

apatel  
 4/16/2015 3:24:44 PM

Quant Time: Apr 16 05:55:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-BM041515.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 16 05:31:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 275333   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.37 | 136  | 1225153  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.25 | 164  | 720195   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.00 | 188  | 1580112  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.20 | 240  | 1566170  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.37 | 264  | 1284352  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |       |      |
|--------------------------------|-------|-----|---------|--------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.05  | 96  | 176358  | 30.30  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.77  | 99  | 1871787 | 90.12  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 1091835 | 84.20  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 1497170 | 87.73  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.31  | 113 | 1530657 | 94.51  | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.75  | 128 | 722798  | 89.45  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 838277  | 94.95  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.00 | 165 | 1546288 | 88.03  | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.52 | 131 | 1702685 | 85.98  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.67 | 166 | 4025816 | 85.59  | ng/ul | 0.01 |
| 46) Acenaphthylene-d8          | 13.94 | 160 | 5620511 | 82.36  | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.47 | 143 | 867605  | 103.93 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.25 | 176 | 3827483 | 80.26  | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 795304  | 95.13  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.10 | 188 | 5764891 | 79.98  | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.40 | 212 | 6057853 | 85.06  | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.24 | 264 | 4732645 | 84.21  | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |        |       | Qvalue |
|--------------------------------|-------|-----|---------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.08  | 88  | 183968  | 28.96  | ng/uL | 96     |
| 4) Benzaldehyde                | 6.73  | 77  | 1141058 | 100.00 | ng/ul | 97     |
| 6) Phenol                      | 6.80  | 94  | 1968623 | 87.56  | ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.02  | 93  | 1505426 | 83.06  | ng/ul | 98     |
| 10) 2-Chlorophenol             | 7.15  | 128 | 1557630 | 84.87  | ng/ul | 98     |
| 11) 2-Methylphenol             | 8.04  | 108 | 1522347 | 91.14  | ng/ul | 97     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.13  | 45  | 2641423 | 82.33  | ng/ul | 99     |
| 14) Acetophenone               | 8.41  | 105 | 2386104 | 88.40  | ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.41  | 70  | 1229735 | 94.11  | ng/ul | 97     |
| 16) 4-Methylphenol             | 8.37  | 108 | 1660588 | 90.47  | ng/ul | 97     |
| 17) Hexachloroethane           | 8.65  | 117 | 601286  | 83.20  | ng/ul | 94     |
| 20) Nitrobenzene               | 8.79  | 77  | 1767216 | 82.17  | ng/ul | 99     |
| 21) Isophorone                 | 9.31  | 82  | 3335697 | 91.12  | ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.49  | 139 | 891427  | 90.04  | ng/ul | 99     |
| 24) 2,4-Dimethylphenol         | 9.56  | 107 | 1789043 | 84.62  | ng/ul | 97     |
| 25) Bis(2-Chloroethoxy)methane | 9.80  | 93  | 2046017 | 82.54  | ng/ul | 99     |
| 27) 2,4-Dichlorophenol         | 10.03 | 162 | 1514112 | 84.38  | ng/ul | 100    |
| 28) Naphthalene                | 10.42 | 128 | 5029100 | 77.72  | ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.54 | 127 | 1717566 | 81.31  | ng/ul | 96     |
| 31) Hexachlorobutadiene        | 10.70 | 225 | 852051  | 77.14  | ng/ul | 99     |
| 32) Caprolactam                | 11.32 | 113 | 490380m | 108.59 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.68 | 107 | 1631535 | 89.75  | ng/ul | 99     |
| 34) 2-Methylnaphthalene        | 12.05 | 142 | 3622027 | 81.04  | ng/ul | 100    |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.42 | 216  | 1719005  | 76.52  | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.40 | 237  | 1025387  | 88.35  | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.67 | 196  | 1150366  | 88.12  | ng/ul  | 100      |
| 39) 2,4,5-Trichlorophenol      | 12.74 | 196  | 1250403  | 86.92  | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.07 | 154  | 4662953  | 76.35  | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.11 | 162  | 3584195  | 76.42  | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.33 | 65   | 1140718  | 92.23  | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.72 | 163  | 4429099  | 82.57  | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.84 | 165  | 957480   | 95.16  | ng/ul  | 95       |
| 47) Acenaphthylene             | 13.97 | 152  | 5937725  | 78.57  | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.17 | 138  | 850608   | 82.20  | ng/ul  | 96       |
| 49) Acenaphthene               | 14.32 | 153  | 3902745  | 78.39  | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.37 | 184  | 591493   | 118.11 | ng/ul  | 98       |
| 52) 4-Nitrophenol              | 14.49 | 109  | 632217   | 97.13  | ng/ul  | 97       |
| 53) Dibenzofuran               | 14.65 | 168  | 5388600  | 77.10  | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.63 | 165  | 1403312  | 95.26  | ng/ul  | 96       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.89 | 232  | 1055699  | 93.64  | ng/ul  | 98       |
| 56) Diethylphthalate           | 15.09 | 149  | 4560537  | 85.43  | ng/ul  | 99       |
| 58) Fluorene                   | 15.30 | 166  | 4533833  | 78.67  | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.30 | 204  | 2138769  | 78.55  | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.35 | 138  | 1109018  | 101.53 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.40 | 198  | 843890   | 91.93  | ng/ul# | 97       |
| 64) N-Nitrosodiphenylamine     | 15.52 | 169  | 3875958  | 79.79  | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.19 | 248  | 1254909  | 81.08  | ng/ul  | 98       |
| 66) Hexachlorobenzene          | 16.31 | 284  | 1354509  | 78.44  | ng/ul  | 97       |
| 67) Atrazine                   | 16.48 | 200  | 1368028  | 90.91  | ng/ul  | 96       |
| 68) Pentachlorophenol          | 16.66 | 266  | 869689   | 100.11 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.04 | 178  | 6859889  | 75.80  | ng/ul  | 97       |
| 71) Anthracene                 | 17.13 | 178  | 7006611  | 75.82  | ng/ul  | 98       |
| 72) Carbazole                  | 17.40 | 167  | 6491602  | 79.84  | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 17.97 | 149  | 7770318  | 88.72  | ng/ul  | 98       |
| 74) Fluoranthene               | 19.06 | 202  | 7627927  | 77.06  | ng/ul  | 97       |
| 77) Pyrene                     | 19.43 | 202  | 7893765  | 78.70  | ng/ul  | 95       |
| 78) Butylbenzylphthalate       | 20.34 | 149  | 3573515  | 102.19 | ng/ul  | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 2070848  | 87.77  | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.18 | 228  | 7133993  | 76.99  | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.12 | 149  | 5067715  | 97.36  | ng/ul  | 98       |
| 82) Chrysene                   | 21.24 | 228  | 6628695  | 74.72  | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 21.98 | 149  | 8046858  | 103.00 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.73 | 252  | 6692453  | 84.11  | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.77 | 252  | 5952962  | 80.22  | ng/ul  | 98       |
| 88) Benzo(a)pyrene             | 23.29 | 252  | 6001166  | 80.06  | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.56 | 276  | 6234312  | 76.98  | ng/ul  | 97       |
| 90) Dibenzo(a,h)anthracene     | 25.57 | 278  | 5194847  | 76.62  | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.23 | 276  | 5198836  | 74.72  | ng/ul  | 99       |

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

```
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Acq On    : 15 Apr 2015  16:29
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Sample    : SSTD08025
Misc      :
ALS Vial  : 6      Sample Multiplier: 1
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**Instrument :**  
BNA\_M  
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