

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102016\  
 Data File : BM007706.D  
 Acq On : 20 Oct 2016 16:53  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02050

Quant Time: Oct 20 17:45:41 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 20 17:01:48 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 168448   | 20.00 | ng/ul | -0.02    |
| 18) Naphthalene-d8        | 10.53 | 136  | 649047   | 20.00 | ng/ul | -0.02    |
| 35) Acenaphthene-d10      | 14.39 | 164  | 415252   | 20.00 | ng/ul | -0.02    |
| 61) Phenanthrene-d10      | 17.13 | 188  | 834517   | 20.00 | ng/ul | -0.02    |
| 75) Chrysene-d12          | 21.32 | 240  | 1077634  | 20.00 | ng/ul | -0.02    |
| 83) Perylene-d12          | 23.57 | 264  | 1076543  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 30703  | 7.81  | ng/uL | -0.01 |
| 5) Phenol-d5                   | 6.93  | 99  | 250495 | 19.27 | ng/ul | -0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.09  | 67  | 148932 | 19.30 | ng/ul | -0.02 |
| 9) 2-Chlorophenol-d4           | 7.29  | 132 | 200371 | 20.10 | ng/ul | -0.02 |
| 13) 4-Methylphenol-d8          | 8.46  | 113 | 197137 | 19.38 | ng/ul | -0.02 |
| 19) Nitrobenzene-d5            | 8.91  | 128 | 92335  | 19.77 | ng/ul | -0.02 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 101675 | 20.53 | ng/ul | -0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 195679 | 20.10 | ng/ul | -0.02 |
| 29) 4-Chloroaniline-d4         | 10.67 | 131 | 231321 | 20.83 | ng/ul | -0.02 |
| 43) Dimethylphthalate-d6       | 13.80 | 166 | 572291 | 20.24 | ng/ul | -0.02 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 693763 | 20.39 | ng/ul | -0.02 |
| 51) 4-Nitrophenol-d4           | 14.60 | 143 | 88805  | 19.86 | ng/ul | -0.02 |
| 57) Fluorene-d10               | 15.38 | 176 | 498469 | 20.12 | ng/ul | -0.02 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 92856  | 18.73 | ng/ul | -0.02 |
| 70) Anthracene-d10             | 17.23 | 188 | 756863 | 20.13 | ng/ul | -0.02 |
| 76) Pyrene-d10                 | 19.53 | 212 | 880402 | 19.88 | ng/ul | -0.02 |
| 87) Benzo(a)pyrene-d12         | 23.42 | 264 | 956170 | 20.34 | ng/ul | -0.03 |

## Target Compounds

|                                |       |     |        |       |        | Ovalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 33472  | 7.79  | ng/uL  | 92     |
| 4) Benzaldehyde                | 6.90  | 77  | 179398 | 21.82 | ng/ul  | 98     |
| 6) Phenol                      | 6.96  | 94  | 255962 | 19.18 | ng/ul  | 100    |
| 8) Bis(2-Chloroethyl)ether     | 7.19  | 93  | 203363 | 19.78 | ng/ul  | 98     |
| 10) 2-Chlorophenol             | 7.32  | 128 | 205664 | 20.11 | ng/ul  | 99     |
| 11) 2-Methylphenol             | 8.19  | 108 | 189798 | 19.54 | ng/ul  | 98     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.29  | 45  | 222354 | 19.51 | ng/ul  | 97     |
| 14) Acetophenone               | 8.57  | 105 | 311630 | 19.53 | ng/ul  | 95     |
| 15) N-Nitroso-di-n-propylamine | 8.56  | 70  | 157141 | 19.85 | ng/ul  | 94     |
| 16) 4-Methylphenol             | 8.52  | 108 | 204264 | 19.52 | ng/ul  | 96     |
| 17) Hexachloroethane           | 8.82  | 117 | 89435  | 19.79 | ng/ul  | 97     |
| 20) Nitrobenzene               | 8.95  | 77  | 236166 | 19.66 | ng/ul  | 98     |
| 21) Isophorone                 | 9.47  | 82  | 415566 | 20.22 | ng/ul  | 99     |
| 23) 2-Nitrophenol              | 9.66  | 139 | 108669 | 21.00 | ng/ul  | 98     |
| 24) 2,4-Dimethylphenol         | 9.72  | 107 | 238771 | 20.23 | ng/ul  | 100    |
| 25) Bis(2-Chloroethoxy)methane | 9.95  | 93  | 254728 | 20.27 | ng/ul  | 98     |
| 27) 2,4-Dichlorophenol         | 10.19 | 162 | 194398 | 20.28 | ng/ul  | 96     |
| 28) Naphthalene                | 10.58 | 128 | 622738 | 19.72 | ng/ul  | 99     |
| 30) 4-Chloroaniline            | 10.70 | 127 | 235942 | 20.93 | ng/ul  | 99     |
| 31) Hexachlorobutadiene        | 10.86 | 225 | 155586 | 19.92 | ng/ul  | 98     |
| 32) Caprolactam                | 11.49 | 113 | 50494  | 18.99 | ng/ul# | 78     |
| 33) 4-Chloro-3-methylphenol    | 11.83 | 107 | 204479 | 20.34 | ng/ul  | 92     |
| 34) 2-Methylnaphthalene        | 12.20 | 142 | 451568 | 20.11 | ng/ul  | 100    |

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 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02050

Quant Time: Oct 20 17:45:41 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 20 17:01:48 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.57 | 216  | 271344   | 20.24 | ng/ul  | 96       |
| 37) Hexachlorocyclopentadiene  | 12.54 | 237  | 146262   | 18.53 | ng/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.82 | 196  | 150680   | 20.21 | ng/ul  | 100      |
| 39) 2,4,5-Trichlorophenol      | 12.89 | 196  | 165320   | 20.25 | ng/ul  | 97       |
| 40) 1,1'-Biphenyl              | 13.22 | 154  | 583419   | 19.93 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.26 | 162  | 449882   | 20.08 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.47 | 65   | 120941   | 20.35 | ng/ul  | 98       |
| 44) Dimethylphthalate          | 13.85 | 163  | 558160   | 20.33 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.97 | 165  | 106205   | 20.56 | ng/ul  | 92       |
| 47) Acenaphthylene             | 14.10 | 152  | 704673   | 20.42 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.30 | 138  | 104534   | 20.47 | ng/ul  | 97       |
| 49) Acenaphthene               | 14.45 | 153  | 477560   | 20.05 | ng/ul  | 100      |
| 50) 2,4-Dinitrophenol          | 14.52 | 184  | 53816    | 16.92 | ng/ul  | 90       |
| 52) 4-Nitrophenol              | 14.61 | 109  | 84144    | 18.98 | ng/ul  | 97       |
| 53) Dibenzofuran               | 14.79 | 168  | 685296   | 20.04 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.76 | 165  | 158749   | 21.30 | ng/ul# | 98       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.02 | 232  | 147789   | 20.29 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.21 | 149  | 560107   | 20.61 | ng/ul  | 99       |
| 58) Fluorene                   | 15.43 | 166  | 553464   | 20.28 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.43 | 204  | 294444   | 20.24 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.47 | 138  | 100485   | 19.51 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.53 | 198  | 97328    | 19.00 | ng/ul  | 97       |
| 64) N-Nitrosodiphenylamine     | 15.64 | 169  | 479707   | 20.11 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.33 | 248  | 191416   | 20.11 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.44 | 284  | 214115   | 20.31 | ng/ul  | 98       |
| 67) Atrazine                   | 16.60 | 200  | 181088   | 19.71 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.79 | 266  | 111765   | 18.92 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.17 | 178  | 883075   | 19.91 | ng/ul  | 100      |
| 71) Anthracene                 | 17.26 | 178  | 897223   | 19.86 | ng/ul  | 99       |
| 72) Carbazole                  | 17.54 | 167  | 777354   | 19.88 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.10 | 149  | 897388   | 20.61 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.19 | 202  | 1054633  | 20.33 | ng/ul  | 99       |
| 77) Pyrene                     | 19.56 | 202  | 1097960  | 19.72 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.45 | 149  | 412231   | 20.81 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.24 | 252  | 395181   | 20.65 | ng/ul  | 100      |
| 80) Benzo(a)anthracene         | 21.30 | 228  | 1163506  | 20.20 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.23 | 149  | 609572   | 20.90 | ng/ul  | 99       |
| 82) Chrysene                   | 21.35 | 228  | 1111030  | 20.08 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.10 | 149  | 1070570  | 19.62 | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.89 | 252  | 1251095  | 20.34 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 22.93 | 252  | 1134274  | 20.04 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.47 | 252  | 1172385  | 20.24 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.84 | 276  | 1410808  | 20.33 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.84 | 278  | 1192565  | 20.37 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.53 | 276  | 1179372  | 20.24 | ng/ul  | 98       |

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

