

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112817\  
 Data File : BM013146.D  
 Acq On : 28 Nov 2017 20:55  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02002

Manual Integrations  
 APPROVED

Sohil  
 11/29/2017 4:31:09 PM

Quant Time: Nov 29 04:52:36 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM111617.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 29 03:43:23 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 206133   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.49 | 136  | 909606   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 573636   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 1382377  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.28 | 240  | 1451765  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 1133780  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 30927   | 6.95  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 364254  | 20.40 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 209837  | 20.71 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.25  | 132 | 291707  | 20.44 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 307153  | 21.00 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 151602  | 23.39 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 167096  | 27.10 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.12 | 165 | 330579  | 21.12 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.63 | 131 | 376187  | 22.98 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 1030934 | 20.49 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.04 | 160 | 1285805 | 20.06 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 176152  | 23.08 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.34 | 176 | 882931  | 20.65 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 160717  | 26.81 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 1407377 | 19.89 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 1550253 | 20.90 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.36 | 264 | 1198732 | 20.85 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        | Ovalue |        |
|--------------------------------|-------|-----|--------|--------|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 36423m | 7.450  | ng/uL  |
| 4) Benzaldehyde                | 6.86  | 77  | 195736 | 20.341 | ng/ul  |
| 6) Phenol                      | 6.92  | 94  | 356580 | 20.234 | ng/ul# |
| 8) Bis(2-Chloroethyl)ether     | 7.14  | 93  | 277816 | 20.938 | ng/ul  |
| 10) 2-Chlorophenol             | 7.27  | 128 | 284238 | 20.124 | ng/ul  |
| 11) 2-Methylphenol             | 8.15  | 108 | 279053 | 20.861 | ng/ul  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.23  | 45  | 300665 | 19.974 | ng/ul# |
| 14) Acetophenone               | 8.52  | 105 | 478100 | 21.329 | ng/ul  |
| 15) N-Nitroso-di-n-propylamine | 8.51  | 70  | 242919 | 21.130 | ng/ul# |
| 16) 4-Methylphenol             | 8.48  | 108 | 297950 | 20.975 | ng/ul  |
| 17) Hexachloroethane           | 8.77  | 117 | 124287 | 20.777 | ng/ul  |
| 20) Nitrobenzene               | 8.90  | 77  | 360772 | 22.273 | ng/ul  |
| 21) Isophorone                 | 9.42  | 82  | 676126 | 20.371 | ng/ul# |
| 23) 2-Nitrophenol              | 9.60  | 139 | 165823 | 24.710 | ng/ul# |
| 24) 2,4-Dimethylphenol         | 9.67  | 107 | 365133 | 20.684 | ng/ul# |
| 25) Bis(2-Chloroethoxy)methane | 9.91  | 93  | 390786 | 20.519 | ng/ul  |
| 27) 2,4-Dichlorophenol         | 10.14 | 162 | 302109 | 20.770 | ng/ul# |
| 28) Naphthalene                | 10.53 | 128 | 966714 | 20.626 | ng/ul  |
| 30) 4-Chloroaniline            | 10.65 | 127 | 363091 | 23.139 | ng/ul  |
| 31) Hexachlorobutadiene        | 10.82 | 225 | 214056 | 20.437 | ng/ul  |
| 32) Caprolactam                | 11.42 | 113 | 97307m | 21.304 | ng/ul  |
| 33) 4-Chloro-3-methylphenol    | 11.79 | 107 | 334368 | 21.582 | ng/ul  |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 714410 | 20.833 | ng/ul  |

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 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 29 03:43:23 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 419457   | 20.103 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.50 | 237  | 256998   | 16.655 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 272245   | 21.650 | ng/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.84 | 196  | 285392   | 21.706 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.17 | 154  | 967856   | 20.025 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.22 | 162  | 764566   | 19.959 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.43 | 65   | 229227   | 28.177 | ng/ul  | 90       |
| 44) Dimethylphthalate          | 13.81 | 163  | 988685   | 20.548 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.93 | 165  | 210487   | 28.671 | ng/ul# | 96       |
| 47) Acenaphthylene             | 14.07 | 152  | 1177618  | 19.939 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.26 | 138  | 192928   | 28.057 | ng/ul  | 88       |
| 49) Acenaphthene               | 14.41 | 153  | 799375   | 20.140 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.46 | 184  | 94672    | 26.937 | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.58 | 109  | 170594   | 24.667 | ng/ul# | 78       |
| 53) Dibenzofuran               | 14.74 | 168  | 1155977  | 20.332 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 295640   | 28.788 | ng/ul# | 85       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 261527   | 23.753 | ng/ul# | 89       |
| 56) Diethylphthalate           | 15.18 | 149  | 987955   | 20.309 | ng/ul  | 95       |
| 58) Fluorene                   | 15.40 | 166  | 972308   | 20.766 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.40 | 204  | 518971   | 20.981 | ng/ul  | 100      |
| 60) 4-Nitroaniline             | 15.42 | 138  | 210388   | 23.266 | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.48 | 198  | 162587   | 24.976 | ng/ul# | 88       |
| 64) N-Nitrosodiphenylamine     | 15.61 | 169  | 834420   | 19.226 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.29 | 248  | 328107   | 19.596 | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 16.40 | 284  | 357272   | 19.771 | ng/ul# | 92       |
| 67) Atrazine                   | 16.57 | 200  | 327850   | 19.722 | ng/ul  | 90       |
| 68) Pentachlorophenol          | 16.74 | 266  | 199139   | 21.368 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.13 | 178  | 1570743  | 20.201 | ng/ul  | 99       |
| 71) Anthracene                 | 17.23 | 178  | 1607419  | 19.924 | ng/ul  | 99       |
| 72) Carbazole                  | 17.50 | 167  | 1369020  | 19.623 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.07 | 149  | 1708127  | 19.221 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.15 | 202  | 1897725  | 20.193 | ng/ul# | 92       |
| 77) Pyrene                     | 19.52 | 202  | 1895304  | 20.966 | ng/ul# | 92       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 782878   | 20.843 | ng/ul  | 94       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 630764   | 21.139 | ng/ul# | 94       |
| 80) Benzo(a)anthracene         | 21.26 | 228  | 1849735  | 19.908 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 1142683  | 20.642 | ng/ul# | 97       |
| 82) Chrysene                   | 21.32 | 228  | 1707364  | 19.817 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.08 | 149  | 1867945  | 25.001 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.84 | 252  | 1612448  | 22.007 | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 22.88 | 252  | 1544672  | 22.899 | ng/ul# | 98       |
| 88) Benzo(a)pyrene             | 23.41 | 252  | 1398529  | 20.496 | ng/ul# | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.74 | 276  | 1317872  | 16.535 | ng/ul# | 91       |
| 90) Dibenzo(a,h)anthracene     | 25.76 | 278  | 1120508  | 16.595 | ng/ul# | 96       |
| 91) Benzo(g,h,i)perylene       | 26.42 | 276  | 1046396  | 15.800 | ng/ul# | 96       |

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

