

Data Path : Z:\HPCHEM1\BNA M\DATA\BM113017\  
 Data File : BM013150.D  
 Acq On : 30 Nov 2017 10:13  
 Operator : SJ/JU  
 Sample : SSTD02005  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02005

Manual Integrations  
 APPROVED

Sohil  
 12/1/2017 3:40:39 PM

Quant Time: Nov 30 11:56:39 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 30 11:45:02 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 178454   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.49 | 136  | 780048   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.35 | 164  | 496428   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 1203870  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1369085  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 1216410  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 28584   | 7.42  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 288906  | 18.69 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 167617  | 19.11 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.24  | 132 | 228642  | 18.51 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 252017  | 19.90 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 124705  | 22.43 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 128906  | 24.38 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 267305  | 19.91 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 298070  | 21.24 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 856794  | 19.68 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 1063466 | 19.17 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 139310  | 21.09 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.34 | 176 | 733356  | 19.82 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 135406  | 25.94 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 1182923 | 19.19 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 1347489 | 19.27 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.36 | 264 | 1232054 | 19.97 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 32110  | 7.587  | ng/uL# | 63 |
| 4) Benzaldehyde                | 6.85  | 77  | 158040 | 18.971 | ng/ul  | 95 |
| 6) Phenol                      | 6.91  | 94  | 288375 | 18.901 | ng/ul# | 84 |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 219975 | 19.150 | ng/ul  | 98 |
| 10) 2-Chlorophenol             | 7.27  | 128 | 224820 | 18.386 | ng/ul  | 97 |
| 11) 2-Methylphenol             | 8.15  | 108 | 223046 | 19.261 | ng/ul  | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.24  | 45  | 235619 | 18.080 | ng/ul# | 81 |
| 14) Acetophenone               | 8.52  | 105 | 384641 | 19.821 | ng/ul  | 93 |
| 15) N-Nitroso-di-n-propylamine | 8.51  | 70  | 194065 | 19.499 | ng/ul# | 71 |
| 16) 4-Methylphenol             | 8.47  | 108 | 231252 | 18.805 | ng/ul  | 94 |
| 17) Hexachloroethane           | 8.77  | 117 | 97785  | 18.882 | ng/ul  | 82 |
| 20) Nitrobenzene               | 8.90  | 77  | 298220 | 21.470 | ng/ul  | 96 |
| 21) Isophorone                 | 9.42  | 82  | 542269 | 19.052 | ng/ul  | 94 |
| 23) 2-Nitrophenol              | 9.60  | 139 | 132763 | 23.070 | ng/ul# | 85 |
| 24) 2,4-Dimethylphenol         | 9.67  | 107 | 289814 | 19.144 | ng/ul# | 85 |
| 25) Bis(2-Chloroethoxy)methane | 9.90  | 93  | 314692 | 19.268 | ng/ul  | 96 |
| 27) 2,4-Dichlorophenol         | 10.14 | 162 | 247812 | 19.866 | ng/ul# | 85 |
| 28) Naphthalene                | 10.53 | 128 | 776426 | 19.317 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 10.65 | 127 | 283960 | 21.102 | ng/ul  | 90 |
| 31) Hexachlorobutadiene        | 10.82 | 225 | 176238 | 19.621 | ng/ul  | 93 |
| 32) Caprolactam                | 11.42 | 113 | 80897m | 20.653 | ng/ul  |    |
| 33) 4-Chloro-3-methylphenol    | 11.78 | 107 | 275004 | 20.698 | ng/ul  | 95 |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 599144 | 20.374 | ng/ul  | 93 |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 344172   | 19.060 | ng/ul  | 94       |
| 37) Hexachlorocyclopentadiene  | 12.50 | 237  | 219424   | 16.431 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 219773   | 20.195 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.84 | 196  | 230511   | 20.259 | ng/ul  | 94       |
| 40) 1,1'-Biphenyl              | 13.17 | 154  | 811197   | 19.395 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.21 | 162  | 629155   | 18.979 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.42 | 65   | 186692   | 26.517 | ng/ul  | 93       |
| 44) Dimethylphthalate          | 13.81 | 163  | 814308   | 19.556 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.93 | 165  | 169445   | 26.670 | ng/ul  | 96       |
| 47) Acenaphthylene             | 14.06 | 152  | 987901   | 19.328 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.26 | 138  | 153593   | 25.811 | ng/ul# | 84       |
| 49) Acenaphthene               | 14.41 | 153  | 666505   | 19.404 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.46 | 184  | 81097    | 26.663 | ng/ul  | 96       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 139262   | 23.269 | ng/ul# | 80       |
| 53) Dibenzofuran               | 14.75 | 168  | 975180   | 19.820 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 246152   | 27.697 | ng/ul  | 85       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 214863   | 22.550 | ng/ul  | 91       |
| 56) Diethylphthalate           | 15.18 | 149  | 825901   | 19.618 | ng/ul  | 96       |
| 58) Fluorene                   | 15.40 | 166  | 810536   | 20.003 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.39 | 204  | 437738   | 20.449 | ng/ul  | 95       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 176836   | 22.597 | ng/ul  | 97       |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 133607   | 23.567 | ng/ul  | 96       |
| 64) N-Nitrosodiphenylamine     | 15.61 | 169  | 693603   | 18.351 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.29 | 248  | 272634   | 18.697 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.40 | 284  | 296471   | 18.839 | ng/ul# | 93       |
| 67) Atrazine                   | 16.56 | 200  | 271291   | 18.739 | ng/ul  | 94       |
| 68) Pentachlorophenol          | 16.74 | 266  | 158632   | 19.545 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.13 | 178  | 1341232  | 19.807 | ng/ul  | 98       |
| 71) Anthracene                 | 17.22 | 178  | 1361472  | 19.378 | ng/ul  | 99       |
| 72) Carbazole                  | 17.50 | 167  | 1148839  | 18.908 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.07 | 149  | 1401928  | 18.114 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.15 | 202  | 1624906  | 19.853 | ng/ul# | 95       |
| 77) Pyrene                     | 19.52 | 202  | 1638989  | 19.226 | ng/ul# | 94       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 650008   | 18.351 | ng/ul  | 94       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 572518   | 20.346 | ng/ul# | 98       |
| 80) Benzo(a)anthracene         | 21.26 | 228  | 1699199  | 19.392 | ng/ul  | 97       |
| 81) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 983732   | 18.844 | ng/ul  | 99       |
| 82) Chrysene                   | 21.32 | 228  | 1571884  | 19.346 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.08 | 149  | 1608776  | 20.070 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 1594746  | 20.287 | ng/ul# | 95       |
| 86) Benzo(k)fluoranthene       | 22.88 | 252  | 1553982  | 21.472 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 23.41 | 252  | 1464500  | 20.005 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.74 | 276  | 1416030  | 16.559 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 25.76 | 278  | 1204340  | 16.625 | ng/ul# | 97       |
| 91) Benzo(g,h,i)perylene       | 26.42 | 276  | 1101007  | 15.496 | ng/ul# | 95       |

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

