

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM120817\  
 Data File : BM013264.D  
 Acq On : 08 Dec 2017 12:31  
 Operator : SJ/JU  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02023

Quant Time: Dec 08 16:46:28 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 08 03:46:15 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 109699   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 480754   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 311905   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 774957   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1004749  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 1094384  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 16302   | 7.36  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.88  | 99  | 191782  | 20.20 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 106685  | 19.71 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.23  | 132 | 152195  | 20.52 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.40  | 113 | 162487  | 20.04 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.85  | 128 | 76974   | 20.19 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 89486   | 21.93 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 163043  | 19.39 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 197712  | 25.58 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.75 | 166 | 555458  | 20.01 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 646020  | 18.86 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.55 | 143 | 110666  | 22.95 | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.33 | 176 | 458180  | 19.20 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 103190  | 21.17 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.18 | 188 | 759242  | 19.56 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 19.48 | 212 | 910330  | 18.19 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.36 | 264 | 1065056 | 19.11 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |        |        | Ovalue    |
|--------------------------------|-------|-----|--------|--------|-----------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 17432  | 7.010  | ng/uL# 60 |
| 4) Benzaldehyde                | 6.85  | 77  | 100589 | 21.418 | ng/ul# 81 |
| 6) Phenol                      | 6.90  | 94  | 190872 | 20.343 | ng/ul# 83 |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 139710 | 19.475 | ng/ul 95  |
| 10) 2-Chlorophenol             | 7.26  | 128 | 144246 | 19.835 | ng/ul 97  |
| 11) 2-Methylphenol             | 8.14  | 108 | 145675 | 20.075 | ng/ul 98  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.22  | 45  | 151634 | 20.131 | ng/ul# 86 |
| 14) Acetophenone               | 8.52  | 105 | 242614 | 19.675 | ng/ul 85  |
| 15) N-Nitroso-di-n-propylamine | 8.50  | 70  | 125486 | 20.203 | ng/ul# 65 |
| 16) 4-Methylphenol             | 8.46  | 108 | 157394 | 20.283 | ng/ul 91  |
| 17) Hexachloroethane           | 8.76  | 117 | 61730  | 19.497 | ng/ul# 78 |
| 20) Nitrobenzene               | 8.89  | 77  | 186929 | 19.464 | ng/ul 94  |
| 21) Isophorone                 | 9.41  | 82  | 350669 | 20.750 | ng/ul# 92 |
| 23) 2-Nitrophenol              | 9.60  | 139 | 91236  | 21.568 | ng/ul# 74 |
| 24) 2,4-Dimethylphenol         | 9.66  | 107 | 188842 | 20.468 | ng/ul 90  |
| 25) Bis(2-Chloroethoxy)methane | 9.90  | 93  | 199761 | 20.197 | ng/ul 100 |
| 27) 2,4-Dichlorophenol         | 10.13 | 162 | 154442 | 19.885 | ng/ul# 94 |
| 28) Naphthalene                | 10.52 | 128 | 489627 | 19.796 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.64 | 127 | 194813 | 26.038 | ng/ul 94  |
| 31) Hexachlorobutadiene        | 10.80 | 225 | 103819 | 18.454 | ng/ul 91  |
| 32) Caprolactam                | 11.41 | 113 | 63851  | 25.723 | ng/ul# 38 |
| 33) 4-Chloro-3-methylphenol    | 11.77 | 107 | 173110 | 20.318 | ng/ul 97  |
| 34) 2-Methylnaphthalene        | 12.14 | 142 | 365318 | 19.648 | ng/ul 94  |

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|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 209300   | 18.597 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.49 | 237  | 118508   | 15.998 | ng/ul  | 92       |
| 38) 2,4,6-Trichlorophenol      | 12.76 | 196  | 139342   | 19.859 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.83 | 196  | 149747   | 20.092 | ng/ul  | 94       |
| 40) 1,1'-Biphenyl              | 13.16 | 154  | 492964   | 18.701 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.20 | 162  | 381071   | 18.426 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.42 | 65   | 123554   | 20.391 | ng/ul  | 92       |
| 44) Dimethylphthalate          | 13.80 | 163  | 526252   | 19.824 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.92 | 165  | 108328   | 20.008 | ng/ul  | 94       |
| 47) Acenaphthylene             | 14.06 | 152  | 615685   | 19.424 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.25 | 138  | 113271   | 23.406 | ng/ul  | 82       |
| 49) Acenaphthene               | 14.40 | 153  | 412584   | 19.108 | ng/ul  | 100      |
| 50) 2,4-Dinitrophenol          | 14.46 | 184  | 65526    | 21.870 | ng/ul  | 92       |
| 52) 4-Nitrophenol              | 14.56 | 109  | 102112   | 21.584 | ng/ul# | 80       |
| 53) Dibenzofuran               | 14.74 | 168  | 610940   | 19.166 | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 14.71 | 165  | 162863   | 20.678 | ng/ul# | 83       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 143779   | 21.040 | ng/ul  | 93       |
| 56) Diethylphthalate           | 15.17 | 149  | 542558   | 20.378 | ng/ul  | 96       |
| 58) Fluorene                   | 15.39 | 166  | 500942   | 18.997 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.39 | 204  | 259465   | 18.129 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 123689   | 21.663 | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 105936   | 21.745 | ng/ul  | 92       |
| 64) N-Nitrosodiphenylamine     | 15.60 | 169  | 451407   | 19.774 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.28 | 248  | 172068   | 18.888 | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 16.39 | 284  | 190426   | 18.955 | ng/ul  | 95       |
| 67) Atrazine                   | 16.56 | 200  | 195591   | 23.213 | ng/ul  | 93       |
| 68) Pentachlorophenol          | 16.74 | 266  | 121553   | 20.919 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.13 | 178  | 849647   | 19.298 | ng/ul  | 98       |
| 71) Anthracene                 | 17.22 | 178  | 872602   | 19.390 | ng/ul  | 98       |
| 72) Carbazole                  | 17.49 | 167  | 788320   | 20.366 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.06 | 149  | 1048278  | 23.198 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.14 | 202  | 1079490  | 20.008 | ng/ul# | 92       |
| 77) Pyrene                     | 19.51 | 202  | 1113878  | 18.248 | ng/ul# | 92       |
| 78) Butylbenzylphthalate       | 20.42 | 149  | 524342   | 21.985 | ng/ul  | 95       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 463748   | 21.957 | ng/ul# | 98       |
| 80) Benzo(a)anthracene         | 21.26 | 228  | 1238038  | 19.421 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 794963   | 22.114 | ng/ul  | 98       |
| 82) Chrysene                   | 21.31 | 228  | 1160340  | 19.619 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.07 | 149  | 1358446  | 17.456 | ng/ul  | 98       |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 1317134  | 17.854 | ng/ul# | 98       |
| 86) Benzo(k)fluoranthene       | 22.88 | 252  | 1285184  | 18.511 | ng/ul# | 99       |
| 88) Benzo(a)pyrene             | 23.41 | 252  | 1278940  | 19.299 | ng/ul# | 96       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.74 | 276  | 1611695  | 24.510 | ng/ul# | 94       |
| 90) Dibenzo(a,h)anthracene     | 25.76 | 278  | 1353814  | 24.179 | ng/ul# | 94       |
| 91) Benzo(g,h,i)perylene       | 26.43 | 276  | 1323515  | 25.517 | ng/ul# | 98       |

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

