

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082219\  
 Data File : BM022245.D  
 Acq On : 22 Aug 2019 19:11  
 Operator : HP/JU  
 Sample : SSTD16045  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD16045

Quant Time: Aug 22 19:43:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 22 18:08:08 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.56  | 152  | 26116    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.34 | 136  | 120411   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 87897    | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 200523   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.20 | 240  | 331837   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.39 | 264  | 247908   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |       |       |
|--------------------------------|-------|-----|---------|--------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 38241   | 59.98  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.76  | 99  | 381368  | 187.10 | ng/ul | 0.01  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 210968  | 173.29 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.10  | 132 | 320496  | 184.05 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 327810  | 195.65 | ng/ul | 0.02  |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 156366  | 173.53 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 194190  | 188.35 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 403768  | 196.09 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 389120  | 167.72 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.66 | 166 | 1322023 | 180.80 | ng/ul | 0.02  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 1489548 | 179.04 | ng/ul | 0.01  |
| 51) 4-Nitrophenol-d4           | 14.50 | 143 | 223163  | 225.46 | ng/ul | 0.03  |
| 57) Fluorene-d10               | 15.23 | 176 | 1224034 | 198.96 | ng/ul | 0.01  |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 324382  | 232.22 | ng/ul | 0.02  |
| 70) Anthracene-d10             | 16.99 | 188 | 200523  | 19.33  | ng/ul | -0.09 |
| 78) Pyrene-d10                 | 19.40 | 212 | 2858814 | 161.16 | ng/ul | 0.01  |
| 89) Benzo(a)pyrene-d12         | 23.26 | 264 | 2699434 | 202.94 | ng/ul | 0.02  |

## Target Compounds

|                                |       |     |         |         | Qvalue    |
|--------------------------------|-------|-----|---------|---------|-----------|
| 2) 1,4-Dioxane                 | 3.16  | 88  | 38106   | 51.098  | ng/uL# 91 |
| 4) Benzaldehyde                | 6.73  | 77  | 177134  | 147.685 | ng/ul 97  |
| 6) Phenol                      | 6.79  | 94  | 415256  | 190.533 | ng/ul 96  |
| 8) Bis(2-Chloroethyl)ether     | 7.02  | 93  | 284049  | 174.738 | ng/ul 97  |
| 10) 2-Chlorophenol             | 7.14  | 128 | 340345  | 186.647 | ng/ul 98  |
| 11) 2-Methylphenol             | 8.02  | 108 | 318782  | 195.114 | ng/ul 97  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.10  | 45  | 354027  | 175.097 | ng/ul 99  |
| 14) Acetophenone               | 8.41  | 105 | 581104  | 204.198 | ng/ul 98  |
| 15) N-Nitroso-di-n-propylamine | 8.42  | 70  | 303023  | 219.315 | ng/ul 99  |
| 16) 4-Methylphenol             | 8.37  | 108 | 350446  | 201.764 | ng/ul 99  |
| 17) Hexachloroethane           | 8.61  | 117 | 154559  | 168.566 | ng/ul 94  |
| 20) Nitrobenzene               | 8.79  | 77  | 439835  | 166.046 | ng/ul 98  |
| 21) Isophorone                 | 9.32  | 82  | 797388  | 181.175 | ng/ul 99  |
| 23) 2-Nitrophenol              | 9.48  | 139 | 212693  | 187.086 | ng/ul 98  |
| 24) 2,4-Dimethylphenol         | 9.55  | 107 | 461597  | 179.981 | ng/ul 97  |
| 25) Bis(2-Chloroethoxy)methane | 9.78  | 93  | 432119  | 174.477 | ng/ul 98  |
| 27) 2,4-Dichlorophenol         | 10.00 | 162 | 418025  | 206.336 | ng/ul 97  |
| 28) Naphthalene                | 10.39 | 128 | 1099340 | 167.285 | ng/ul 100 |
| 30) 4-Chloroaniline            | 10.53 | 127 | 416532  | 172.633 | ng/ul 95  |
| 31) Hexachlorobutadiene        | 10.65 | 225 | 358494  | 171.754 | ng/ul 99  |
| 32) Caprolactam                | 11.41 | 113 | 58666   | 106.989 | ng/ul 92  |
| 33) 4-Chloro-3-methylphenol    | 11.68 | 107 | 418348  | 197.218 | ng/ul 97  |
| 34) 2-Methylnaphthalene        | 12.02 | 142 | 897145  | 189.850 | ng/ul 96  |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.39 | 216  | 677269   | 176.189 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.34 | 237  | 389339   | 266.040 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.64 | 196  | 409807   | 194.228 | ng/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.73 | 196  | 428819   | 185.134 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.05 | 154  | 1296414  | 177.709 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.09 | 162  | 1016997  | 177.021 | ng/ul  | 97       |
| 42) 2-Nitroaniline             | 13.34 | 65   | 313546   | 192.995 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.71 | 163  | 1402869  | 188.050 | ng/ul# | 99       |
| 45) 2,6-Dinitrotoluene         | 13.85 | 165  | 276510   | 198.033 | ng/ul  | 89       |
| 47) Acenaphthylene             | 13.95 | 152  | 1601360  | 183.321 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.19 | 138  | 213288   | 172.907 | ng/ul  | 96       |
| 49) Acenaphthene               | 14.29 | 153  | 1111227  | 180.698 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.40 | 184  | 196594   | 259.890 | ng/ul  | 97       |
| 52) 4-Nitrophenol              | 14.52 | 109  | 350869   | 232.750 | ng/ul  | 94       |
| 53) Dibenzofuran               | 14.63 | 168  | 1787317  | 201.561 | ng/ul  | 92       |
| 54) 2,4-Dinitrotoluene         | 14.65 | 165  | 479055   | 229.777 | ng/ul# | 84       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 464356   | 217.758 | ng/ul# | 88       |
| 56) Diethylphthalate           | 15.08 | 149  | 1504879  | 194.445 | ng/ul  | 96       |
| 58) Fluorene                   | 15.29 | 166  | 1822312  | 254.628 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.28 | 204  | 1117437  | 260.227 | ng/ul  | 95       |
| 60) 4-Nitroaniline             | 15.38 | 138  | 245576   | 204.843 | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 198  | 350359   | 232.829 | ng/ul# | 90       |
| 64) N-Nitrosodiphenylamine     | 15.52 | 169  | 1262691  | 202.744 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.18 | 248  | 605922   | 213.632 | ng/ul# | 89       |
| 66) Hexachlorobenzene          | 16.29 | 284  | 688638   | 219.896 | ng/ul# | 91       |
| 67) Atrazine                   | 16.49 | 200  | 569374   | 190.467 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.64 | 266  | 400047   | 225.205 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.03 | 178  | 2456505  | 207.999 | ng/ul  | 99       |
| 71) Anthracene                 | 17.13 | 178  | 2803916  | 230.118 | ng/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.00 | 216  | 667865   | 165.871 | ng/uL  | 98       |
| 73) Pentachlorobenzene         | 14.54 | 250  | 812012   | 201.163 | ng/uL  | 100      |
| 74) Carbazole                  | 17.42 | 167  | 2118936  | 199.138 | ng/ul  | 98       |
| 75) Di-n-butylphthalate        | 17.96 | 149  | 2795788  | 216.719 | ng/ul  | 99       |
| 76) Fluoranthene               | 19.06 | 202  | 3574001  | 218.509 | ng/ul# | 95       |
| 79) Pyrene                     | 19.43 | 202  | 3982733  | 178.162 | ng/ul# | 92       |
| 80) Butylbenzylphthalate       | 20.33 | 149  | 1473339  | 167.450 | ng/ul# | 87       |
| 81) 3,3'-Dichlorobenzidine     | 21.13 | 252  | 1431197  | 174.479 | ng/ul# | 99       |
| 82) Benzo(a)anthracene         | 21.19 | 228  | 4457394  | 178.267 | ng/ul  | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.10 | 149  | 2329313  | 185.503 | ng/ul# | 90       |
| 84) Chrysene                   | 21.24 | 228  | 4161500  | 177.340 | ng/ul  | 99       |
| 86) Di-n-octyl phthalate       | 21.97 | 149  | 3829616  | 262.162 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.74 | 252  | 3820960  | 229.599 | ng/ul# | 98       |
| 88) Benzo(k)fluoranthene       | 22.79 | 252  | 3848376  | 235.655 | ng/ul# | 98       |
| 90) Benzo(a)pyrene             | 23.31 | 252  | 3568989  | 222.611 | ng/ul# | 97       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.62 | 276  | 3430057  | 171.705 | ng/ul  | 96       |
| 92) Dibenzo(a,h)anthracene     | 25.62 | 278  | 3132501  | 187.333 | ng/ul# | 98       |
| 93) Benzo(g,h,i)perylene       | 26.29 | 276  | 2171169  | 136.812 | ng/ul  | 97       |

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

