

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061017\  
 Data File : BM010510.D  
 Acq On : 11 Jun 2017 05:58  
 Operator : SJ/MA  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 SSTD02024

Manual Integrations  
 APPROVED

mohammad  
 6/12/2017 3:41:04 PM

Quant Time: Jun 12 08:57:19 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM-EPA-BM052717.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 12 07:08:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 177442   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.70 | 136  | 644482   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.53 | 164  | 448116   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.27 | 188  | 1154134  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.44 | 240  | 1646860  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.78 | 264  | 1661488  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.36  | 96  | 28745   | 6.65  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.07  | 99  | 235790  | 17.54 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.23  | 67  | 131500  | 17.40 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.43  | 132 | 204555  | 19.09 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.62  | 113 | 198983  | 18.34 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.07  | 128 | 96913   | 20.53 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.79  | 143 | 122432  | 22.39 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.32 | 165 | 261724  | 23.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.86 | 131 | 253512  | 23.39 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.94 | 166 | 830533  | 22.31 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.23 | 160 | 914009  | 21.04 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.77 | 143 | 112326  | 20.16 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.52 | 176 | 721885  | 22.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.65 | 200 | 158212  | 19.35 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.37 | 188 | 1158375 | 20.63 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.66 | 212 | 1452274 | 21.33 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.63 | 264 | 1629234 | 21.06 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |               | Qvalue |
|--------------------------------|-------|-----|--------|---------------|--------|
| 2) 1,4-Dioxane                 | 3.39  | 88  | 31403  | 6.812 ng/uL#  | 52     |
| 4) Benzaldehyde                | 7.06  | 77  | 197048 | 21.792 ng/ul  | 95     |
| 6) Phenol                      | 7.10  | 94  | 238792 | 17.322 ng/ul  | 89     |
| 8) Bis(2-Chloroethyl)ether     | 7.33  | 93  | 163317 | 17.072 ng/ul# | 86     |
| 10) 2-Chlorophenol             | 7.46  | 128 | 207646 | 19.306 ng/ul# | 90     |
| 11) 2-Methylphenol             | 8.35  | 108 | 189978 | 18.880 ng/ul  | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.41  | 45  | 62045  | 14.381 ng/ul# | 52     |
| 14) Acetophenone               | 8.73  | 105 | 326695 | 18.454 ng/ul# | 96     |
| 15) N-Nitroso-di-n-propylamine | 8.70  | 70  | 175545 | 19.838 ng/ul# | 80     |
| 16) 4-Methylphenol             | 8.68  | 108 | 198857 | 18.017 ng/ul  | 96     |
| 17) Hexachloroethane           | 8.96  | 117 | 105730 | 21.648 ng/ul  | 92     |
| 20) Nitrobenzene               | 9.12  | 77  | 285857 | 21.203 ng/ul  | 92     |
| 21) Isophorone                 | 9.63  | 82  | 431483 | 20.797 ng/ul  | 95     |
| 23) 2-Nitrophenol              | 9.82  | 139 | 120188 | 20.727 ng/ul  | 94     |
| 24) 2,4-Dimethylphenol         | 9.87  | 107 | 277866 | 20.612 ng/ul  | 94     |
| 25) Bis(2-Chloroethoxy)methane | 10.11 | 93  | 217281 | 18.635 ng/ul  | 98     |
| 27) 2,4-Dichlorophenol         | 10.35 | 162 | 251625 | 22.860 ng/ul  | 94     |
| 28) Naphthalene                | 10.75 | 128 | 638213 | 19.743 ng/ul  | 98     |
| 30) 4-Chloroaniline            | 10.89 | 127 | 230601 | 22.044 ng/ul  | 91     |
| 31) Hexachlorobutadiene        | 10.99 | 225 | 244310 | 24.229 ng/ul  | 97     |
| 32) Caprolactam                | 11.69 | 113 | 56246m | 20.420 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 12.00 | 107 | 234853 | 22.167 ng/ul  | 96     |
| 34) 2-Methylnaphthalene        | 12.34 | 142 | 515372 | 21.028 ng/ul  | 100    |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.70 | 216  | 411870   | 22.095 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.66 | 237  | 232459   | 18.597 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 12.96 | 196  | 246821   | 23.294 | ng/ul  | 94       |
| 39) 2,4,5-Trichlorophenol      | 13.04 | 196  | 248790   | 23.278 | ng/ul  | 94       |
| 40) 1,1'-Biphenyl              | 13.36 | 154  | 736841   | 20.269 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.41 | 162  | 580807   | 20.337 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.64 | 65   | 154564   | 21.250 | ng/ul  | 96       |
| 44) Dimethylphthalate          | 13.99 | 163  | 792524   | 21.644 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.13 | 165  | 148504   | 22.127 | ng/ul# | 77       |
| 47) Acenaphthylene             | 14.26 | 152  | 870763   | 20.515 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.48 | 138  | 126354   | 19.541 | ng/ul# | 95       |
| 49) Acenaphthene               | 14.59 | 153  | 602091   | 20.226 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.67 | 184  | 103516   | 20.409 | ng/ul  | 86       |
| 52) 4-Nitrophenol              | 14.79 | 109  | 186609   | 24.444 | ng/ul# | 76       |
| 53) Dibenzofuran               | 14.93 | 168  | 934159   | 21.223 | ng/ul  | 91       |
| 54) 2,4-Dinitrotoluene         | 14.92 | 165  | 227244   | 23.057 | ng/ul# | 88       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.15 | 232  | 246615   | 24.019 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.34 | 149  | 781472   | 22.065 | ng/ul  | 96       |
| 58) Fluorene                   | 15.57 | 166  | 790987   | 21.907 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.57 | 204  | 492114   | 23.848 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.64 | 138  | 128280   | 18.948 | ng/ul# | 78       |
| 63) 4,6-Dinitro-2-methylphenol | 15.66 | 198  | 160652   | 18.546 | ng/ul  | 91       |
| 64) N-Nitrosodiphenylamine     | 15.79 | 169  | 656017   | 19.499 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.46 | 248  | 301648   | 21.242 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.56 | 284  | 290458   | 19.532 | ng/ul# | 82       |
| 67) Atrazine                   | 16.73 | 200  | 313408   | 21.433 | ng/ul  | 92       |
| 68) Pentachlorophenol          | 16.92 | 266  | 189966   | 20.068 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.32 | 178  | 1262157  | 20.485 | ng/ul  | 99       |
| 71) Anthracene                 | 17.41 | 178  | 1331456  | 20.700 | ng/ul  | 99       |
| 72) Carbazole                  | 17.70 | 167  | 1080921  | 19.854 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.22 | 149  | 1278019  | 20.794 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.33 | 202  | 1688017  | 22.279 | ng/ul# | 96       |
| 77) Pyrene                     | 19.69 | 202  | 1777409  | 20.944 | ng/ul# | 95       |
| 78) Butylbenzylphthalate       | 20.57 | 149  | 605984   | 20.662 | ng/ul  | 93       |
| 79) 3,3'-Dichlorobenzidine     | 21.37 | 252  | 637665   | 19.726 | ng/ul  | 97       |
| 80) Benzo(a)anthracene         | 21.43 | 228  | 2012344  | 21.669 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.31 | 149  | 903145   | 20.696 | ng/ul  | 100      |
| 82) Chrysene                   | 21.48 | 228  | 1752199  | 20.872 | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 22.21 | 149  | 1648232  | 21.554 | ng/ul# | 93       |
| 85) Benzo(b)fluoranthene       | 23.06 | 252  | 2023945  | 20.935 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 23.11 | 252  | 1993779  | 21.587 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.67 | 252  | 1995550  | 20.824 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.16 | 276  | 2536736  | 20.952 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 26.17 | 278  | 2187503  | 20.978 | ng/ul  | 98       |
| 91) Benzo(g,h,i)perylene       | 26.90 | 276  | 2086975  | 20.923 | ng/ul  | 99       |

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

