

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052517\  
 Data File : BM010233.D  
 Acq On : 26 May 2017 00:46  
 Operator : SJ/MA  
 Sample : PB99276BS  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB99276BS

Manual Integrations  
 APPROVED

mohammad  
 5/26/2017 10:32:00 AM

Quant Time: May 26 07:46:32 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM051917.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat May 20 04:25:49 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.94  | 152  | 118024   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8        | 10.75 | 136  | 400561   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10      | 14.57 | 164  | 256525   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10      | 17.32 | 188  | 576720   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 21.49 | 240  | 903537   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 23.84 | 264  | 1065962  | 20.00 | ng    | -0.05    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.53  | 112 | 901862  | 137.99 | ng | -0.03 |
| 7) Phenol-d6             | 7.13  | 99  | 1086513 | 129.20 | ng | -0.04 |
| 23) Nitrobenzene-d5      | 9.13  | 82  | 767051  | 103.31 | ng | -0.04 |
| 41) 2,4,6-Tribromophenol | 16.07 | 330 | 532730  | 136.73 | ng | -0.03 |
| 44) 2-Fluorobiphenyl     | 13.20 | 172 | 1964825 | 98.47  | ng | -0.04 |
| 78) Terphenyl-d14        | 19.92 | 244 | 3060991 | 77.03  | ng | -0.03 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.43  | 88  | 108628  | 36.17  | ng | # 100  |
| 3) Pyridine                    | 3.85  | 79  | 273594  | 34.03  | ng | 89     |
| 4) n-Nitrosodimethylamine      | 3.76  | 42  | 160381  | 55.16  | ng | # 72   |
| 6) Aniline                     | 7.32  | 93  | 97804   | 9.39   | ng | 96     |
| 8) 2-Chlorophenol              | 7.52  | 128 | 284425  | 40.00  | ng | 95     |
| 9) Benzaldehyde                | 7.10  | 77  | 70088   | 13.39  | ng | 87     |
| 10) Phenol                     | 7.16  | 94  | 358985  | 40.51  | ng | 97     |
| 11) bis(2-Chloroethyl)ether    | 7.38  | 93  | 259569  | 39.29  | ng | 99     |
| 12) 1,3-Dichlorobenzene        | 7.83  | 146 | 347016  | 38.40  | ng | # 91   |
| 13) 1,4-Dichlorobenzene        | 7.98  | 146 | 352352  | 37.96  | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 8.30  | 146 | 339932  | 38.15  | ng | 97     |
| 15) Benzyl Alcohol             | 8.20  | 79  | 153042  | 24.05  | ng | # 87   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.47  | 45  | 207867  | 32.00  | ng | 69     |
| 17) 2-Methylphenol             | 8.40  | 107 | 237393  | 37.64  | ng | # 83   |
| 18) Hexachloroethane           | 9.02  | 117 | 126309  | 41.98  | ng | # 75   |
| 19) n-Nitroso-di-n-propylamine | 8.75  | 70  | 238704  | 40.21  | ng | 93     |
| 20) 3+4-Methylphenols          | 8.73  | 107 | 313662  | 36.83  | ng | 86     |
| 22) Acetophenone               | 8.78  | 105 | 432845  | 42.16  | ng | # 96   |
| 24) Nitrobenzene               | 9.17  | 77  | 366631  | 47.93  | ng | 92     |
| 25) Isophorone                 | 9.67  | 82  | 574188  | 44.76  | ng | # 93   |
| 26) 2-Nitrophenol              | 9.87  | 139 | 143538  | 44.52  | ng | # 58   |
| 27) 2,4-Dimethylphenol         | 9.93  | 122 | 242038  | 41.58  | ng | # 78   |
| 28) bis(2-Chloroethoxy)methane | 10.16 | 93  | 320740  | 39.39  | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.40 | 162 | 303051  | 45.22  | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 10.60 | 180 | 383738  | 44.25  | ng | 96     |
| 31) Naphthalene                | 10.80 | 128 | 818946  | 38.22  | ng | 98     |
| 32) Benzoic acid               | 10.06 | 122 | 132906  | 33.50  | ng | # 79   |
| 33) 4-Chloroaniline            | 11.08 | 127 | 312760m | 37.89  | ng |        |
| 34) Hexachlorobutadiene        | 11.05 | 225 | 266536  | 46.08  | ng | 98     |
| 35) Caprolactam                | 11.76 | 113 | 65774m  | 34.20  | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.05 | 107 | 280117  | 38.59  | ng | 85     |
| 37) 2-Methylnaphthalene        | 12.40 | 142 | 649427  | 42.09  | ng | # 93   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.75 | 216 | 437019  | 44.30  | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 12.72 | 237 | 651516  | 114.39 | ng | 98     |

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|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.02 | 196  | 273798   | 47.12 | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 13.09 | 196  | 283207   | 44.11 | ng #  | 93       |
| 45) 1,1'-Biphenyl              | 13.41 | 154  | 884798   | 41.94 | ng    | 99       |
| 46) 2-Chloronaphthalene        | 13.46 | 162  | 697183   | 40.82 | ng    | 96       |
| 47) 2-Nitroaniline             | 13.70 | 65   | 189048   | 43.04 | ng #  | 81       |
| 48) Acenaphthylene             | 14.30 | 152  | 1052347  | 41.67 | ng    | 99       |
| 49) Dimethylphthalate          | 14.04 | 163  | 867986   | 37.93 | ng #  | 99       |
| 50) 2,6-Dinitrotoluene         | 14.17 | 165  | 184667   | 42.50 | ng #  | 80       |
| 51) Acenaphthene               | 14.64 | 154  | 639849   | 40.75 | ng    | 99       |
| 52) 3-Nitroaniline             | 14.54 | 138  | 140583   | 34.81 | ng #  | 59       |
| 53) 2,4-Dinitrophenol          | 14.71 | 184  | 241821   | 83.47 | ng    | 89       |
| 54) Dibenzofuran               | 14.97 | 168  | 1102900  | 44.67 | ng    | 96       |
| 55) 4-Nitrophenol              | 14.83 | 139  | 239480   | 73.69 | ng #  | 31       |
| 56) 2,4-Dinitrotoluene         | 14.96 | 165  | 254737   | 41.44 | ng    | 88       |
| 57) Fluorene                   | 15.62 | 166  | 897688   | 41.81 | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.20 | 232  | 264512m  | 48.37 | ng    |          |
| 59) Diethylphthalate           | 15.39 | 149  | 819360   | 37.87 | ng    | 97       |
| 60) 4-Chlorophenyl-phenylether | 15.62 | 204  | 502075   | 41.65 | ng    | 97       |
| 61) 4-Nitroaniline             | 15.69 | 138  | 142677   | 34.80 | ng #  | 11       |
| 62) Azobenzene                 | 15.90 | 77   | 838491   | 52.71 | ng    | 88       |
| 64) 4,6-Dinitro-2-methylphenol | 15.70 | 198  | 162739   | 46.19 | ng    | 83       |
| 65) n-Nitrosodiphenylamine     | 15.84 | 169  | 756265   | 43.75 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.51 | 248  | 330661   | 44.79 | ng    | 94       |
| 67) Hexachlorobenzene          | 16.60 | 284  | 367892   | 41.01 | ng    | 95       |
| 68) Atrazine                   | 16.80 | 200  | 272508   | 41.58 | ng    | 97       |
| 69) Pentachlorophenol          | 16.96 | 266  | 432604   | 87.81 | ng    | 99       |
| 70) Phenanthrene               | 17.37 | 178  | 1378859  | 42.73 | ng    | 99       |
| 71) Anthracene                 | 17.46 | 178  | 1407497  | 43.95 | ng    | 99       |
| 72) Carbazole                  | 17.74 | 167  | 1222101  | 43.10 | ng    | 98       |
| 73) Di-n-butylphthalate        | 18.26 | 149  | 1276499  | 37.97 | ng #  | 97       |
| 74) Fluoranthene               | 19.37 | 202  | 1741185  | 41.56 | ng    | 97       |
| 76) Benzidine                  | 19.60 | 184  | 517159   | 31.03 | ng    | 99       |
| 77) Pyrene                     | 19.73 | 202  | 1774812  | 36.64 | ng    | 99       |
| 79) Butylbenzylphthalate       | 20.60 | 149  | 610178   | 34.03 | ng #  | 79       |
| 80) Benzo(a)anthracene         | 21.47 | 228  | 2136196  | 42.90 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.41 | 252  | 782818   | 39.08 | ng #  | 98       |
| 82) Chrysene                   | 21.52 | 228  | 1944991  | 41.18 | ng    | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 933569   | 34.81 | ng #  | 97       |
| 84) Di-n-octyl phthalate       | 22.26 | 149  | 1826300  | 38.04 | ng #  | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 26.26 | 276  | 3563732  | 51.46 | ng #  | 100      |
| 87) Benzo(b)fluoranthene       | 23.12 | 252  | 2716209  | 43.54 | ng #  | 92       |
| 88) Benzo(k)fluoranthene       | 23.17 | 252  | 2573260  | 42.10 | ng #  | 95       |
| 89) Benzo(a)pyrene             | 23.74 | 252  | 2660234  | 44.75 | ng #  | 96       |
| 90) Dibenzo(a,h)anthracene     | 26.26 | 278  | 2905929  | 43.71 | ng #  | 92       |
| 91) Benzo(g,h,i)perylene       | 27.01 | 276  | 2909233  | 44.66 | ng #  | 87       |

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

