

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG022818\  
 Data File : BG032916.D  
 Acq On : 1 Mar 2018 10:19  
 Operator : SJ/JU  
 Sample : PB106927BS  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB106927BS

Manual Integrations  
 APPROVED

Sohil  
 3/1/2018 11:30:36 AM

Quant Time: Mar 01 11:12:14 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 26 17:50:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.92  | 152  | 68562    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.81 | 136  | 304915   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.54 | 164  | 173045   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.26 | 188  | 375453   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.62 | 240  | 334831   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 26.42 | 264  | 360697   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 6.33  | 112 | 758541  | 177.00 | ng | 0.00 |
| 7) Phenol-d6             | 8.02  | 99  | 1007495 | 168.66 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 10.12 | 82  | 573107  | 125.13 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 17.01 | 330 | 314802  | 173.01 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 14.16 | 172 | 1275106 | 106.27 | ng | 0.00 |
| 78) Terphenyl-d14        | 20.78 | 244 | 1633835 | 109.63 | ng | 0.00 |

## Target Compounds

|                                |       |     |        |         |    | Qvalue |
|--------------------------------|-------|-----|--------|---------|----|--------|
| 2) 1,4-Dioxane                 | 3.96  | 88  | 72959  | 39.228  | ng | 89     |
| 3) Pyridine                    | 4.42  | 79  | 208420 | 40.657  | ng | 99     |
| 4) n-Nitrosodimethylamine      | 4.33  | 42  | 110586 | 53.807  | ng | # 91   |
| 6) Aniline                     | 8.21  | 93  | 104523 | 12.927  | ng | 95     |
| 8) 2-Chlorophenol              | 8.47  | 128 | 233833 | 49.850  | ng | 93     |
| 9) Benzaldehyde                | 8.01  | 77  | 91732  | 26.645  | ng | 91     |
| 10) Phenol                     | 8.05  | 94  | 295785 | 49.121  | ng | 92     |
| 11) bis(2-Chloroethyl)ether    | 8.30  | 93  | 208943 | 42.435  | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 8.81  | 146 | 227770 | 41.457  | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 8.96  | 146 | 230530 | 41.685  | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 9.29  | 146 | 217838 | 41.105  | ng | 98     |
| 15) Benzyl Alcohol             | 9.15  | 79  | 198382 | 45.175  | ng | 89     |
| 16) 2,2'-oxybis(1-Chloropropan | 9.45  | 45  | 367404 | 43.405  | ng | 98     |
| 17) 2-Methylphenol             | 9.35  | 107 | 202539 | 45.614  | ng | 95     |
| 18) Hexachloroethane           | 10.05 | 117 | 83907  | 44.561  | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 9.73  | 70  | 173825 | 41.219  | ng | # 93   |
| 20) 3+4-Methylphenols          | 9.68  | 107 | 277623 | 44.967  | ng | 94     |
| 22) Acetophenone               | 9.76  | 105 | 324293 | 42.113  | ng | # 97   |
| 24) Nitrobenzene               | 10.16 | 77  | 241862 | 49.508  | ng | 91     |
| 25) Isophorone                 | 10.69 | 82  | 472766 | 44.174  | ng | # 94   |
| 26) 2-Nitrophenol              | 10.89 | 139 | 116642 | 61.633  | ng | 92     |
| 27) 2,4-Dimethylphenol         | 10.92 | 122 | 247914 | 53.324  | ng | 89     |
| 28) bis(2-Chloroethoxy)methane | 11.16 | 93  | 296756 | 47.597  | ng | 94     |
| 29) 2,4-Dichlorophenol         | 11.43 | 162 | 219674 | 52.060  | ng | 93     |
| 30) 1,2,4-Trichlorobenzene     | 11.65 | 180 | 207864 | 42.024  | ng | 97     |
| 31) Naphthalene                | 11.86 | 128 | 685324 | 43.013  | ng | 99     |
| 32) Benzoic acid               | 11.06 | 122 | 13824m | 11.378  | ng |        |
| 33) 4-Chloroaniline            | 11.94 | 127 | 94004  | 13.195  | ng | 96     |
| 34) Hexachlorobutadiene        | 12.12 | 225 | 112542 | 40.564  | ng | 95     |
| 35) Caprolactam                | 12.69 | 113 | 82906  | 49.069  | ng | 96     |
| 36) 4-Chloro-3-methylphenol    | 13.01 | 107 | 254200 | 51.768  | ng | 90     |
| 37) 2-Methylnaphthalene        | 13.41 | 142 | 516532 | 44.810  | ng | 93     |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.76 | 216 | 213592 | 41.580  | ng | # 96   |
| 40) Hexachlorocyclopentadiene  | 13.73 | 237 | 262639 | 100.323 | ng | 93     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.98 | 196  | 166692   | 51.456 | ng    | 97       |
| 43) 2,4,5-Trichlorophenol      | 14.05 | 196  | 181855   | 48.503 | ng    | # 95     |
| 45) 1,1'-Biphenyl              | 14.37 | 154  | 638877   | 42.250 | ng    | 95       |
| 46) 2-Chloronaphthalene        | 14.43 | 162  | 486454   | 43.065 | ng    | 97       |
| 47) 2-Nitroaniline             | 14.61 | 65   | 165708   | 56.086 | ng    | 92       |
| 48) Acenaphthylene             | 15.27 | 152  | 795259   | 43.002 | ng    | 98       |
| 49) Dimethylphthalate          | 14.96 | 163  | 625019   | 42.538 | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 15.09 | 165  | 139241   | 55.539 | ng    | 91       |
| 51) Acenaphthene               | 15.60 | 154  | 489125   | 42.468 | ng    | 97       |
| 52) 3-Nitroaniline             | 15.41 | 138  | 75479    | 28.688 | ng    | # 85     |
| 53) 2,4-Dinitrophenol          | 15.61 | 184  | 18789    | 32.832 | ng    | # 1      |
| 54) Dibenzofuran               | 15.93 | 168  | 736175   | 44.890 | ng    | 95       |
| 55) 4-Nitrophenol              | 15.69 | 139  | 203261   | 84.081 | ng    | # 80     |
| 56) 2,4-Dinitrotoluene         | 15.86 | 165  | 186827   | 61.039 | ng    | 88       |
| 57) Fluorene                   | 16.57 | 166  | 594897   | 43.951 | ng    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 16.14 | 232  | 150329m  | 51.642 | ng    |          |
| 59) Diethylphthalate           | 16.30 | 149  | 664445   | 42.875 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 16.54 | 204  | 295507   | 44.629 | ng    | 93       |
| 61) 4-Nitroaniline             | 16.57 | 138  | 138291   | 43.976 | ng    | 83       |
| 62) Azobenzene                 | 16.84 | 77   | 617131   | 44.513 | ng    | 97       |
| 64) 4,6-Dinitro-2-methylphenol | 16.62 | 198  | 29335    | 31.883 | ng    | 99       |
| 65) n-Nitrosodiphenylamine     | 16.75 | 169  | 545563   | 44.667 | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 17.44 | 248  | 174850   | 44.043 | ng    | # 89     |
| 67) Hexachlorobenzene          | 17.56 | 284  | 180351   | 42.038 | ng    | 94       |
| 68) Atrazine                   | 17.67 | 200  | 181473   | 45.138 | ng    | 97       |
| 69) Pentachlorophenol          | 17.89 | 266  | 163262   | 60.415 | ng    | 99       |
| 70) Phenanthrene               | 18.30 | 178  | 919149   | 43.881 | ng    | 97       |
| 71) Anthracene                 | 18.39 | 178  | 939405   | 44.671 | ng    | 99       |
| 72) Carbazole                  | 18.65 | 167  | 865392   | 41.750 | ng    | 97       |
| 73) Di-n-butylphthalate        | 19.15 | 149  | 1083958  | 42.627 | ng    | 99       |
| 74) Fluoranthene               | 20.25 | 202  | 999732   | 43.207 | ng    | 94       |
| 76) Benzidine                  | 20.41 | 184  | 173237   | 15.179 | ng    | 97       |
| 77) Pyrene                     | 20.61 | 202  | 1006491  | 42.626 | ng    | 97       |
| 79) Butylbenzylphthalate       | 21.48 | 149  | 505381   | 48.274 | ng    | 92       |
| 80) Benzo(a)anthracene         | 22.60 | 228  | 961022   | 44.759 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 22.48 | 252  | 131396   | 16.523 | ng    | # 98     |
| 82) Chrysene                   | 22.68 | 228  | 906082   | 44.177 | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 22.43 | 149  | 726148   | 46.859 | ng    | # 95     |
| 84) Di-n-octyl phthalate       | 23.85 | 149  | 1237875  | 52.407 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 30.86 | 276  | 1067866  | 44.644 | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 25.20 | 252  | 967701   | 45.375 | ng    | # 97     |
| 88) Benzo(k)fluoranthene       | 25.28 | 252  | 935070   | 44.117 | ng    | # 96     |
| 89) Benzo(a)pyrene             | 26.25 | 252  | 938492   | 46.266 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 30.93 | 278  | 895892   | 43.877 | ng    | # 93     |
| 91) Benzo(g,h,i)perylene       | 32.25 | 276  | 878972   | 43.670 | ng    | # 91     |

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

