# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072916\
Data File : BG023337.D
Acq On : 29 Jul 2016 13:05
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_G
**LabSampleId :** SSTDCCC040

Quant Time: Jul 29 13:41:09 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG072616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 27 17:30:33 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 169# | 0.00 |
| 2 | | 1,4-Dioxane | 0.502 | 0.417 | 16.9 | 140 | 0.00 |
| 3 | | Pyridine | 1.759 | 1.343 | 23.6 | 103 | -0.03 |
| 4 | | n-Nitrosodimethylamine | 0.795 | 0.585 | 26.4# | 98 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.172 | 1.110 | 5.3 | 157# | 0.00 |
| 6 | | Aniline | 2.402 | 2.205 | 8.2 | 154# | 0.00 |
| 7 | S | Phenol-d6 | 1.799 | 1.717 | 4.6 | 154# | 0.00 |
| 8 | | 2-Chlorophenol | 1.307 | 1.315 | -0.6 | 168# | 0.00 |
| 9 | | Benzaldehyde | 1.292 | 1.049 | 18.8 | 135 | 0.00 |
| 10 | C | Phenol | 1.898 | 1.793 | 5.5 | 156# | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.613 | 1.460 | 9.5 | 152# | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.473 | 1.443 | 2.0 | 166# | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.503 | 1.487 | 1.1 | 165# | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.450 | 1.428 | 1.5 | 165# | 0.00 |
| 15 | | Benzyl Alcohol | 1.210 | 1.276 | -5.5 | 169# | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.567 | 2.277 | 11.3 | 165# | -0.01 |
| 17 | | 2-Methylphenol | 1.297 | 1.252 | 3.5 | 166# | 0.00 |
| 18 | | Hexachloroethane | 0.626 | 0.569 | 9.1 | 152# | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.618 | 1.408 | 13.0 | 142 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.764 | 1.786 | -1.2 | 167# | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 166# | 0.00 |
| 22 | | Acetophenone | 0.522 | 0.478 | 8.4 | 147 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.409 | 0.357 | 12.7 | 141 | 0.00 |
| 24 | | Nitrobenzene | 0.475 | 0.424 | 10.7 | 148 | 0.00 |
| 25 | | Isophorone | 0.845 | 0.763 | 9.7 | 145 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.179 | 0.188 | -5.0 | 169# | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.302 | 0.296 | 2.0 | 163# | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.474 | 0.423 | 10.8 | 150 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.293 | 0.310 | -5.8 | 167# | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.323 | 0.322 | 0.3 | 160# | 0.00 |
| 31 | | Naphthalene | 0.929 | 0.902 | 2.9 | 162# | 0.00 |
| 32 | | Benzoic acid | 0.215 | 0.246 | -14.4 | 194# | 0.02 |
| 33 | | 4-Chloroaniline | 0.429 | 0.414 | 3.5 | 164# | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.212 | 0.208 | 1.9 | 145 | 0.00 |
| 35 | | Caprolactam | 0.124 | 0.118 | 4.8 | 162# | 0.04 |
| 36 | C | 4-Chloro-3-methylphenol | 0.385 | 0.380 | 1.3 | 156# | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.689 | 0.680 | 1.3 | 161# | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 153# | 0.00 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.648 | 0.660 | -1.9 | 153# | 0.00 |
| 40 | P | Hexachlorocyclopentadiene | 0.307 | 0.302 | 1.6 | 132 | 0.00 |
| 41 | S | 2,4,6-Tribromophenol | 0.207 | 0.243 | -17.4 | 161# | 0.00 |
| 42 | C | 2,4,6-Trichlorophenol | 0.380 | 0.408 | -7.4 | 156# | 0.00 |
| 43 | | 2,4,5-Trichlorophenol | 0.403 | 0.425 | -5.5 | 154# | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.069 | 0.990 | 7.4 | 141 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.395 | 1.372 | 1.6 | 153# | 0.00 |
| 46 | | 2-Chloronaphthalene | 1.118 | 1.072 | 4.1 | 148 | 0.00 |
| 47 | | 2-Nitroaniline | 0.473 | 0.434 | 8.2 | 141 | 0.00 |
| 48 | | Acenaphthylene | 1.711 | 1.623 | 5.1 | 145 | 0.00 |
| 49 | | Dimethylphthalate | 1.476 | 1.351 | 8.5 | 140 | 0.00 |
| 50 | | 2,6-Dinitrotoluene | 0.346 | 0.338 | 2.3 | 151# | 0.00 |
| 51 | C | Acenaphthene | 1.110 | 1.075 | 3.2 | 151# | 0.00 |
| 52 | | 3-Nitroaniline | 0.348 | 0.344 | 1.1 | 157# | 0.00 |
| 53 | P | 2,4-Dinitrophenol | 0.202 | 0.195 | 3.5 | 143 | 0.00 |
| 54 | | Dibenzofuran | 1.571 | 1.463 | 6.9 | 143 | 0.00 |
| 55 | P | 4-Nitrophenol | 0.302 | 0.273 | 9.6 | 145 | -0.02 |
| 56 | | 2,4-Dinitrotoluene | 0.487 | 0.464 | 4.7 | 146 | 0.00 |
| 57 | | Fluorene | 1.387 | 1.282 | 7.6 | 141 | 0.00 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.342 | 0.349 | -2.0 | 145 | 0.00 |
| 59 | | Diethylphthalate | 1.512 | 1.351 | 10.6 | 136 | 0.00 |
| 60 | | 4-Chlorophenyl-phenylether | 0.751 | 0.697 | 7.2 | 140 | 0.00 |
| 61 | | 4-Nitroaniline | 0.365 | 0.355 | 2.7 | 150 | 0.00 |
| 62 | | Azobenzene | 1.567 | 1.340 | 14.5 | 131 | 0.00 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 139 | 0.00 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.128 | 0.144 | -12.5 | 147 | 0.00 |
| 65 | c | n-Nitrosodiphenylamine | 0.534 | 0.554 | -3.7 | 142 | 0.00 |
| 66 | | 4-Bromophenyl-phenylether | 0.202 | 0.226 | -11.9 | 149 | 0.00 |
| 67 | | Hexachlorobenzene | 0.203 | 0.237 | -16.7 | 157# | 0.00 |
| 68 | | Atrazine | 0.205 | 0.213 | -3.9 | 144 | 0.00 |
| 69 | C | Pentachlorophenol | 0.125 | 0.143 | -14.4 | 149 | 0.00 |
| 70 | | Phenanthrene | 0.875 | 0.877 | -0.2 | 134 | 0.00 |
| 71 | | Anthracene | 0.884 | 0.883 | 0.1 | 132 | 0.00 |
| 72 | | Carbazole | 0.810 | 0.810 | 0.0 | 141 | 0.00 |
| 73 | | Di-n-butylphthalate | 0.903 | 0.898 | 0.6 | 134 | 0.00 |
| 74 | C | Fluoranthene | 0.998 | 0.939 | 5.9 | 137 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 158# | 0.00 |
| 76 | | Benzidine | 0.563 | 0.432 | 23.3 | 120 | 0.00 |
| 77 | | Pyrene | 1.135 | 0.959 | 15.5 | 140 | 0.00 |
| 78 | S | Terphenyl-d14 | 0.615 | 0.515 | 16.3 | 138 | 0.00 |
| 79 | | Butylbenzylphthalate | 0.499 | 0.482 | 3.4 | 157# | 0.00 |
| 80 | | Benzo(a)anthracene | 1.047 | 0.964 | 7.9 | 150 | 0.00 |
| 81 | | 3,3'-Dichlorobenzidine | 0.425 | 0.446 | -4.9 | 164# | 0.00 |
| 82 | | Chrysene | 1.012 | 0.920 | 9.1 | 148 | 0.00 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.699 | 0.655 | 6.3 | 152# | 0.00 |
| 84 | c | Di-n-octyl phthalate | 1.143 | 1.064 | 6.9 | 147 | 0.00 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.180 | 1.333 | -13.0 | 176# | 0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 165# | 0.00 |
| 87 | | Benzo(b)fluoranthene | 1.062 | 1.033 | 2.7 | 161# | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.062 | 1.004 | 5.5 | 158# | 0.00 |
| 89 C | Benzo(a)pyrene | 1.041 | 1.010 | 3.0 | 160# | 0.01 |
| 90 | Dibenzo(a,h)anthracene | 0.985 | 1.040 | -5.6 | 174# | 0.02 |
| 91 | Benzo(g,h,i)perylene | 1.037 | 1.058 | -2.0 | 147 | 0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0