# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG122118\
Data File : BG038808.D
Acq On : 22 Dec 2018 8:40
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: Dec 24 03:52:38 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 12 15:26:27 2018
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 | 111 | 0.00 |
| 2 | | 1,4-Dioxane | 0.525 | 0.427 | 18.7 | 89 | 0.00 |
| 3 | | Pyridine | 1.445 | 1.161 | 19.7 | 75 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.708 | 0.603 | 14.8 | 87 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.128 | 1.115 | 1.2 | 110 | 0.00 |
| 6 | | Aniline | 1.976 | 1.916 | 3.0 | 107 | 0.00 |
| 7 | S | Phenol-d6 | 1.548 | 1.615 | -4.3 | 117 | 0.01 |
| 8 | | 2-Chlorophenol | 1.305 | 1.321 | -1.2 | 112 | 0.00 |
| 9 | | Benzaldehyde | 1.004 | 0.907 | 9.7 | 109 | 0.00 |
| 10 | C | Phenol | 1.645 | 1.706 | -3.7 | 116 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.309 | 1.163 | 11.2 | 101 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.543 | 1.550 | -0.5 | 113 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.580 | 1.573 | 0.4 | 113 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.490 | 1.498 | -0.5 | 115 | 0.00 |
| 15 | | Benzyl Alcohol | 1.208 | 1.237 | -2.4 | 109 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.999 | 2.436 | 18.8 | 92 | 0.00 |
| 17 | | 2-Methylphenol | 1.102 | 1.140 | -3.4 | 113 | 0.00 |
| 18 | | Hexachloroethane | 0.577 | 0.540 | 6.4 | 106 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.087 | 1.016 | 6.5 | 103 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.522 | 1.631 | -7.2 | 117 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 116 | 0.00 |
| 22 | | Acetophenone | 0.500 | 0.475 | 5.0 | 110 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.391 | 0.366 | 6.4 | 108 | 0.00 |
| 24 | | Nitrobenzene | 0.396 | 0.365 | 7.8 | 107 | 0.00 |
| 25 | | Isophorone | 0.703 | 0.591 | 15.9 | 83 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.203 | 0.198 | 2.5 | 113 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.291 | 0.294 | -1.0 | 116 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.397 | 0.360 | 9.3 | 104 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.323 | 0.365 | -13.0 | 125 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.390 | 0.409 | -4.9 | 122 | 0.00 |
| 31 | | Naphthalene | 0.985 | 0.984 | 0.1 | 116 | 0.00 |
| 32 | | Benzoic acid | 0.154 | 0.193 | -25.3# | 132 | 0.02 |
| 33 | | 4-Chloroaniline | 0.428 | 0.450 | -5.1 | 118 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.264 | 0.278 | -5.3 | 119 | 0.00 |
| 35 | | Caprolactam | 0.134 | 0.128 | 4.5 | 116 | 0.02 |
| 36 | C | 4-Chloro-3-methylphenol | 0.369 | 0.392 | -6.2 | 124 | 0.01 |
| 37 | | 2-Methylnaphthalene | 0.703 | 0.725 | -3.1 | 120 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.682 | 0.701 | -2.8 | 120 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 131 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.748 | 0.750 | -0.3 | 130 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.411 | 0.337 | 18.0 | 104 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.276 | 0.308 | -11.6 | 142 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.460 | 0.497 | -8.0 | 133 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.487 | 0.509 | -4.5 | 130 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.458 | 1.398 | 4.1 | 125 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.677 | 1.610 | 4.0 | 123 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.295 | 1.248 | 3.6 | 126 | 0.00 |
| 48 | | 2-Nitroaniline | 0.413 | 0.391 | 5.3 | 120 | 0.00 |
| 49 | | Acenaphthylene | 1.936 | 1.875 | 3.2 | 124 | 0.00 |
| 50 | | Dimethylphthalate | 1.633 | 1.548 | 5.2 | 122 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.370 | 0.360 | 2.7 | 125 | 0.00 |
| 52 | C | Acenaphthene | 1.158 | 1.114 | 3.8 | 125 | 0.00 |
| 53 | | 3-Nitroaniline | 0.377 | 0.369 | 2.1 | 124 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.193 | 0.196 | -1.6 | 128 | 0.00 |
| 55 | | Dibenzofuran | 1.985 | 1.974 | 0.6 | 131 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.286 | 0.240 | 16.1 | 103 | 0.01 |
| 57 | | 2,4-Dinitrotoluene | 0.521 | 0.502 | 3.6 | 121 | 0.00 |
| 58 | | Fluorene | 1.470 | 1.462 | 0.5 | 128 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.438 | 0.467 | -6.6 | 133 | 0.00 |
| 60 | | Diethylphthalate | 1.793 | 1.627 | 9.3 | 119 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.917 | 0.939 | -2.4 | 132 | 0.00 |
| 62 | | 4-Nitroaniline | 0.388 | 0.383 | 1.3 | 122 | 0.00 |
| 63 | | Azobenzene | 1.498 | 1.337 | 10.7 | 115 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 128 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.143 | 0.124 | 13.3 | 109 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.588 | 0.595 | -1.2 | 129 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.244 | 0.259 | -6.1 | 134 | 0.00 |
| 68 | | Hexachlorobenzene | 0.253 | 0.270 | -6.7 | 134 | 0.00 |
| 69 | | Atrazine | 0.218 | 0.217 | 0.5 | 124 | 0.00 |
| 70 | C | Pentachlorophenol | 0.150 | 0.145 | 3.3 | 120 | 0.00 |
| 71 | | Phenanthrene | 1.037 | 1.026 | 1.1 | 127 | 0.00 |
| 72 | | Anthracene | 1.024 | 1.021 | 0.3 | 126 | 0.00 |
| 73 | | Carbazole | 1.013 | 1.000 | 1.3 | 125 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.162 | 1.094 | 5.9 | 118 | 0.00 |
| 75 | C | Fluoranthene | 1.283 | 1.244 | 3.0 | 127 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 131 | 0.00 |
| 77 | | Benzidine | 0.591 | 0.494 | 16.4 | 91 | 0.00 |
| 78 | | Pyrene | 1.321 | 1.233 | 6.7 | 125 | 0.00 |
| 79 | S | Terphenyl-d14 | 0.919 | 0.893 | 2.8 | 128 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.516 | 0.471 | 8.7 | 117 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.219 | 1.189 | 2.5 | 125 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.483 | 0.486 | -0.6 | 125 | 0.00 |
| 83 | | Chrysene | 1.174 | 1.136 | 3.2 | 126 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.732 | 0.678 | 7.4 | 116 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.226 | 1.117 | 8.9 | 114 | 0.00 |
| 86 | | Indeno(1,2,3-cd)pyrene | 1.380 | 1.302 | 5.7 | 119 | 0.02 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 126 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.098 | 1.100 | -0.2 | 124 | 0.01 |
| 89 | Benzo(k)fluoranthene | 1.093 | 1.068 | 2.3 | 120 | 0.01 |
| 90 C | Benzo(a)pyrene | 1.059 | 1.072 | -1.2 | 125 | 0.01 |
| 91 | Dibenzo(a,h)anthracene | 1.055 | 1.011 | 4.2 | 118 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 1.039 | 0.999 | 3.8 | 119 | 0.02 |

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