# Evaluate Continuing Calibration Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
Data File : BM020228.D
Acq On : 09 May 2019 21:38
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTDCCC040

Quant Time: May 10 04:46:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 03:58:37 2019
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 | -0.02 |
| 2 | | 1,4-Dioxane | 0.600 | 0.675 | -12.5 | 134 | -0.01 |
| 3 | | Pyridine | 1.535 | 1.802 | -17.4 | 127 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.492 | 0.478 | 2.8 | 113 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.224 | 1.392 | -13.7 | 131 | -0.01 |
| 6 | | Aniline | 2.104 | 2.333 | -10.9 | 128 | -0.01 |
| 7 | S | Phenol-d6 | 1.672 | 1.828 | -9.3 | 125 | 0.00 |
| 8 | | 2-Chlorophenol | 1.332 | 1.486 | -11.6 | 126 | -0.01 |
| 9 | | Benzaldehyde | 1.265 | 1.285 | -1.6 | 114 | -0.01 |
| 10 | C | Phenol | 1.799 | 1.970 | -9.5 | 124 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.308 | 1.460 | -11.6 | 125 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 1.550 | 1.726 | -11.4 | 127 | -0.02 |
| 13 | C | 1,4-Dichlorobenzene | 1.566 | 1.762 | -12.5 | 128 | -0.01 |
| 14 | | 1,2-Dichlorobenzene | 1.492 | 1.641 | -10.0 | 127 | -0.01 |
| 15 | | Benzyl Alcohol | 1.612 | 1.593 | 1.2 | 111 | -0.01 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 1.084 | 1.093 | -0.8 | 110 | -0.02 |
| 17 | | 2-Methylphenol | 1.158 | 1.252 | -8.1 | 122 | 0.00 |
| 18 | | Hexachloroethane | 0.653 | 0.618 | 5.4 | 109 | -0.02 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.430 | 1.424 | 0.4 | 110 | -0.02 |
| 20 | | 3+4-Methylphenols | 1.540 | 1.642 | -6.6 | 120 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 101 | -0.01 |
| 22 | | Acetophenone | 0.547 | 0.591 | -8.0 | 114 | -0.01 |
| 23 | S | Nitrobenzene-d5 | 0.507 | 0.551 | -8.7 | 114 | -0.01 |
| 24 | | Nitrobenzene | 0.525 | 0.560 | -6.7 | 112 | -0.01 |
| 25 | | Isophorone | 0.874 | 0.942 | -7.8 | 110 | -0.01 |
| 26 | C | 2-Nitrophenol | 0.159 | 0.210 | -32.1# | 137 | -0.01 |
| 27 | | 2,4-Dimethylphenol | 0.264 | 0.287 | -8.7 | 114 | -0.01 |
| 28 | | bis(2-Chloroethoxy)methane | 0.476 | 0.527 | -10.7 | 113 | -0.02 |
| 29 | C | 2,4-Dichlorophenol | 0.333 | 0.379 | -13.8 | 119 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.410 | 0.462 | -12.7 | 119 | -0.01 |
| 31 | | Naphthalene | 1.038 | 1.167 | -12.4 | 118 | -0.01 |
| 32 | | Benzoic acid | 0.175 | 0.211 | -20.6 | 124 | 0.01 |
| 33 | | 4-Chloroaniline | 0.427 | 0.461 | -8.0 | 111 | -0.01 |
| 34 | C | Hexachlorobutadiene | 0.290 | 0.318 | -9.7 | 114 | -0.02 |
| 35 | | Caprolactam | 0.100 | 0.114 | -14.0 | 114 | 0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 0.391 | 0.413 | -5.6 | 107 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.757 | 0.830 | -9.6 | 113 | -0.02 |
| 38 | | 1-Methylnaphthalene | 0.740 | 0.805 | -8.8 | 112 | -0.01 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 92 | -0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.782 | 0.883 | -12.9 | 110 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 0.461 | 0.082 | 82.2# | 17# | -0.02 |
| 42 | S | 2,4,6-Tribromophenol | 0.310 | 0.358 | -15.5 | 107 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.445 | 0.528 | -18.7 | 112 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.497 | 0.565 | -13.7 | 109 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 1.626 | 1.782 | -9.6 | 107 | -0.02 |
| 46 | | 1,1'-Biphenyl | 1.646 | 1.829 | -11.1 | 107 | -0.02 |
| 47 | | 2-Chloronaphthalene | 1.314 | 1.463 | -11.3 | 109 | -0.01 |
| 48 | | 2-Nitroaniline | 0.468 | 0.518 | -10.7 | 104 | 0.00 |
| 49 | | Acenaphthylene | 2.103 | 2.345 | -11.5 | 107 | -0.01 |
| 50 | | Dimethylphthalate | 1.700 | 1.782 | -4.8 | 99 | -0.02 |
| 51 | | 2,6-Dinitrotoluene | 0.358 | 0.395 | -10.3 | 104 | -0.01 |
| 52 | C | Acenaphthene | 1.206 | 1.341 | -11.2 | 106 | -0.01 |
| 53 | | 3-Nitroaniline | 0.332 | 0.385 | -16.0 | 109 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.151 | 0.042# | 72.2# | 27# | 0.00 |
| 55 | | Dibenzofuran | 2.035 | 2.213 | -8.7 | 104 | -0.01 |
| 56 | P | 4-Nitrophenol | 0.284 | 0.302 | -6.3 | 98 | 0.01 |
| 57 | | 2,4-Dinitrotoluene | 0.486 | 0.530 | -9.1 | 101 | 0.00 |
| 58 | | Fluorene | 1.671 | 1.805 | -8.0 | 103 | -0.01 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.472 | 0.531 | -12.5 | 107 | 0.00 |
| 60 | | Diethylphthalate | 1.713 | 1.743 | -1.8 | 94 | -0.02 |
| 61 | | 4-Chlorophenyl-phenylether | 0.947 | 0.988 | -4.3 | 100 | -0.01 |
| 62 | | 4-Nitroaniline | 0.367 | 0.407 | -10.9 | 102 | 0.00 |
| 63 | | Azobenzene | 2.020 | 1.962 | 2.9 | 91 | -0.01 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.094 | 0.036 | 61.7# | 36# | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.589 | 0.659 | -11.9 | 101 | -0.01 |
| 67 | | 4-Bromophenyl-phenylether | 0.245 | 0.271 | -10.6 | 100 | -0.01 |
| 68 | | Hexachlorobenzene | 0.282 | 0.313 | -11.0 | 100 | 0.00 |
| 69 | | Atrazine | 0.230 | 0.238 | -3.5 | 92 | -0.01 |
| 70 | C | Pentachlorophenol | 0.161 | 0.188 | -16.8 | 104 | 0.00 |
| 71 | | Phenanthrene | 1.104 | 1.232 | -11.6 | 101 | 0.00 |
| 72 | | Anthracene | 1.104 | 1.235 | -11.9 | 101 | -0.01 |
| 73 | | Carbazole | 0.996 | 1.100 | -10.4 | 100 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.199 | 1.283 | -7.0 | 94 | -0.01 |
| 75 | C | Fluoranthene | 1.397 | 1.518 | -8.7 | 98 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 77 | | Benzidine | 0.639 | 0.677 | -5.9 | 90 | 0.00 |
| 78 | | Pyrene | 1.343 | 1.514 | -12.7 | 98 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.147 | 1.233 | -7.5 | 93 | -0.01 |
| 80 | | Butylbenzylphthalate | 0.488 | 0.577 | -18.2 | 99 | -0.02 |
| 81 | | Benzo(a)anthracene | 1.403 | 1.557 | -11.0 | 97 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.535 | 0.623 | -16.4 | 99 | 0.00 |
| 83 | | Chrysene | 1.360 | 1.523 | -12.0 | 96 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.758 | 0.829 | -9.4 | 91 | -0.02 |
| 85 | c | Di-n-octyl phthalate | 1.259 | 1.430 | -13.6 | 95 | -0.02 |
| 86 | | Indeno(1,2,3-cd)pyrene | 1.618 | 2.070 | -27.9# | 113 | 0.00 |
| 87 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 1.321 | 1.359 | -2.9 | 101 | 0.00 |
| 89 | Benzo(k)fluoranthene | 1.205 | 1.256 | -4.2 | 103 | 0.00 |
| 90 C | Benzo(a)pyrene | 1.200 | 1.292 | -7.7 | 106 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 1.248 | 1.400 | -12.2 | 113 | 0.00 |
| 92 | Benzo(g,h,i)perylene | 1.184 | 1.363 | -15.1 | 115 | 0.00 |

(#) = Out of Range SPCC's out = 1 CCC's out = 1