# Evaluate Continuing Calibration Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\
Data File : BM020150.D
Acq On : 07 May 2019 02:51
Operator : JU/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Quant Time: May 07 13:46:51 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 | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 224 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 42.115 | -5.3 | 254 | 0.00 |
| 3 | | Pyridine | 40.000 | 46.340 | -15.9 | 253 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 43.565 | -8.9 | 256 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 90.345 | -12.9 | 263 | 0.00 |
| 6 | | Aniline | 40.000 | 44.606 | -11.5 | 261 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 89.578 | -12.0 | 260 | 0.01 |
| 8 | | 2-Chlorophenol | 40.000 | 44.650 | -11.6 | 256 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 42.001 | -5.0 | 238 | 0.00 |
| 10 | C | Phenol | 40.000 | 44.743 | -11.9 | 257 | 0.02 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 45.386 | -13.5 | 257 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 44.078 | -10.2 | 255 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 44.067 | -10.2 | 254 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 43.534 | -8.8 | 254 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 40.549 | -1.4 | 231 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 40.891 | -2.2 | 226 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 43.305 | -8.3 | 247 | 0.01 |
| 18 | | Hexachloroethane | 40.000 | 18.874 | 52.8# | 111 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 40.687 | -1.7 | 228 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 43.176 | -7.9 | 245 | 0.01 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 201 | 0.00 |
| 22 | | Acetophenone | 40.000 | 44.892 | -12.2 | 235 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 89.791 | -12.2 | 233 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 43.531 | -8.8 | 227 | 0.00 |
| 25 | | Isophorone | 40.000 | 44.149 | -10.4 | 224 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 26.103 | 34.7# | 134 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 45.829 | -14.6 | 240 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 46.303 | -15.8 | 236 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 46.033 | -15.1 | 239 | 0.01 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 45.073 | -12.7 | 236 | 0.00 |
| 31 | | Naphthalene | 40.000 | 44.917 | -12.3 | 234 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 40.487 | -1.2 | 214 | 0.05 |
| 33 | | 4-Chloroaniline | 40.000 | 43.998 | -10.0 | 224 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 44.544 | -11.4 | 231 | 0.00 |
| 35 | | Caprolactam | 40.000 | 43.963 | -9.9 | 216 | 0.04 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 41.800 | -4.5 | 210 | 0.02 |
| 37 | | 2-Methylnaphthalene | 40.000 | 43.007 | -7.5 | 220 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 42.301 | -5.8 | 217 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 167 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 48.140 | -20.4 | 211 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 0.674 | 98.3# | 3 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 87.551 | -9.4 | 184 | 0.01 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 50.431 | -26.1# | 215 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 46.773 | -16.9 | 202 | 0.01 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | S | 2-Fluorobiphenyl | 80.000 | 95.007 | -18.8 | 208 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 47.116 | -17.8 | 204 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 46.269 | -15.7 | 204 | 0.00 |
| 48 | | 2-Nitroaniline | 40.000 | 53.230 | -33.1# | 224 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 44.556 | -11.4 | 192 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 44.086 | -10.2 | 187 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 32.498 | 18.8 | 138 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 44.655 | -11.6 | 192 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 54.817 | -37.0# | 232 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 8.662 | 78.3# | 1 | 0.02 |
| 55 | | Dibenzofuran | 40.000 | 43.151 | -7.9 | 187 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 38.102 | 4.7 | 158 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 27.680 | 30.8# | 116 | 0.00 |
| 58 | | Fluorene | 40.000 | 42.583 | -6.5 | 183 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 44.359 | -10.9 | 190 | 0.01 |
| 60 | | Diethylphthalate | 40.000 | 41.994 | -5.0 | 175 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 42.263 | -5.7 | 182 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 53.344 | -33.4# | 221 | 0.00 |
| 63 | | Azobenzene | 40.000 | 38.319 | 4.2 | 163 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 149 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 7.554 | 81.1# | 2 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 46.679 | -16.7 | 179 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 45.886 | -14.7 | 177 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 44.598 | -11.5 | 171 | 0.00 |
| 69 | | Atrazine | 40.000 | 32.874 | 17.8 | 124 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 46.492 | -16.2 | 176 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 44.519 | -11.3 | 172 | 0.00 |
| 72 | | Anthracene | 40.000 | 44.679 | -11.7 | 172 | 0.00 |
| 73 | | Carbazole | 40.000 | 44.580 | -11.4 | 171 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 43.262 | -8.2 | 162 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 43.988 | -10.0 | 169 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 139 | 0.00 |
| 77 | | Benzidine | 40.000 | 50.255 | -25.6# | 177 | 0.00 |
| 78 | | Pyrene | 40.000 | 46.171 | -15.4 | 166 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 90.295 | -12.9 | 161 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 49.172 | -22.9 | 171 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 44.947 | -12.4 | 162 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 48.496 | -21.2 | 171 | 0.00 |
| 83 | | Chrysene | 40.000 | 44.720 | -11.8 | 159 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 44.921 | -12.3 | 154 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 47.428 | -18.6 | 165 | -0.01 |
| 86 | | Indeno(1,2,3-cd)pyrene | 40.000 | 46.572 | -16.4 | 169 | 0.02 |
| 87 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 148 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 | Benzo(b)fluoranthene | 40.000 | 42.204 | -5.5 | 160 | 0.00 |
| 89 | Benzo(k)fluoranthene | 40.000 | 43.715 | -9.3 | 166 | 0.00 |
| 90 C | Benzo(a)pyrene | 40.000 | 43.628 | -9.1 | 165 | 0.00 |
| 91 | Dibenzo(a,h)anthracene | 40.000 | 43.851 | -9.6 | 169 | 0.02 |
| 92 | Benzo(g,h,i)perylene | 40.000 | 43.840 | -9.6 | 168 | 0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 2