# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100517\
Data File : BM011936.D
Acq On : 05 Oct 2017 21:57
Operator : SJ/JU
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02025

Quant Time: Oct 06 17:04:32 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 06 04:40:59 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 2 | | 1,4-Dioxane | 0.430 | 0.453 | -5.3 | 116 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.423 | 0.438 | -3.5 | 115 | 0.00 |
| 4 | | Benzaldehyde | 0.857 | 0.944 | -10.2 | 115 | 0.00 |
| 5 | S | Phenol-d5 | 1.721 | 1.646 | 4.4 | 112 | 0.00 |
| 6 | | Phenol | 1.703 | 1.609 | 5.5 | 110 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.018 | 0.994 | 2.4 | 110 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.279 | 1.257 | 1.7 | 110 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.380 | 1.459 | -5.7 | 117 | 0.00 |
| 10 | | 2-Chlorophenol | 1.349 | 1.417 | -5.0 | 117 | 0.00 |
| 11 | | 2-Methylphenol | 1.295 | 1.220 | 5.8 | 109 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.635 | 1.580 | 3.4 | 107 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.487 | 1.356 | 8.8 | 105 | 0.00 |
| 14 | | Acetophenone | 2.177 | 2.024 | 7.0 | 105 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.114 | 1.065 | 4.4 | 103 | 0.00 |
| 16 | | 4-Methylphenol | 1.450 | 1.337 | 7.8 | 105 | 0.00 |
| 17 | | Hexachloroethane | 0.541 | 0.566 | -4.6 | 117 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.142 | 0.164 | -15.5 | 111 | 0.00 |
| 20 | | Nitrobenzene | 0.344 | 0.378 | -9.9 | 103 | 0.00 |
| 21 | | Isophorone | 0.642 | 0.675 | -5.1 | 100 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.160 | 0.191 | -19.4 | 115 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.169 | 0.193 | -14.2 | 108 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.362 | 0.376 | -3.9 | 102 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.394 | 0.410 | -4.1 | 100 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.324 | 0.350 | -8.0 | 103 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.313 | 0.332 | -6.1 | 102 | 0.00 |
| 28 | | Naphthalene | 1.003 | 1.051 | -4.8 | 104 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.354 | 0.397 | -12.1 | 95 | 0.00 |
| 30 | | 4-Chloroaniline | 0.347 | 0.376 | -8.4 | 92 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.230 | 0.250 | -8.7 | 106 | 0.00 |
| 32 | | Caprolactam | 0.103 | 0.086 | 16.5 | 86 | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 0.340 | 0.320 | 5.9 | 90 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.765 | 0.759 | 0.8 | 97 | 0.00 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.678 | 0.802 | -18.3 | 95 | 0.00 |
| 37 | | Hexachlorocyclopentadiene | 0.395 | 0.358 | 9.4 | 78 | 0.00 |
| 38 | C | 2,4,6-Trichlorophenol | 0.431 | 0.507 | -17.6 | 93 | 0.00 |
| 39 | | 2,4,5-Trichlorophenol | 0.454 | 0.519 | -14.3 | 91 | 0.00 |
| 40 | | 1,1'-Biphenyl | 1.599 | 1.802 | -12.7 | 91 | 0.00 |
| 41 | | 2-Chloronaphthalene | 1.251 | 1.415 | -13.1 | 91 | 0.00 |
| 42 | | 2-Nitroaniline | 0.318 | 0.359 | -12.9 | 86 | 0.00 |
| 43 | S | Dimethylphthalate-d6 | 1.733 | 1.771 | -2.2 | 81 | 0.00 |
| 44 | | Dimethylphthalate | 1.668 | 1.675 | -0.4 | 80 | 0.00 |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.314 | 0.340 | -8.3 | 83 | 0.00 |
| 46 | S | Acenaphthylene-d8 | 2.037 | 2.239 | -9.9 | 86 | 0.00 |
| 47 | | Acenaphthylene | 1.975 | 2.148 | -8.8 | 86 | 0.00 |
| 48 | | 3-Nitroaniline | 0.292 | 0.295 | -1.0 | 82 | 0.00 |
| 49 | C | Acenaphthene | 1.367 | 1.438 | -5.2 | 85 | 0.00 |
| 50 | | 2,4-Dinitrophenol | 0.208 | 0.144 | 30.8# | 66 | 0.00 |
| 51 | S | 4-Nitrophenol-d4 | 0.303 | 0.248 | 18.2 | 71 | 0.00 |
| 52 | | 4-Nitrophenol | 0.242 | 0.192 | 20.7# | 67 | 0.00 |
| 53 | | Dibenzofuran | 1.984 | 2.033 | -2.5 | 82 | 0.00 |
| 54 | | 2,4-Dinitrotoluene | 0.465 | 0.448 | 3.7 | 75 | 0.00 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.443 | 0.429 | 3.2 | 77 | 0.00 |
| 56 | | Diethylphthalate | 1.693 | 1.607 | 5.1 | 75 | 0.00 |
| 57 | S | Fluorene-d10 | 1.530 | 1.482 | 3.1 | 79 | 0.00 |
| 58 | | Fluorene | 1.656 | 1.605 | 3.1 | 78 | 0.00 |
| 59 | | 4-Chlorophenyl-phenylether | 0.876 | 0.862 | 1.6 | 80 | 0.00 |
| 60 | | 4-Nitroaniline | 0.340 | 0.294 | 13.5 | 79 | 0.00 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.135 | 0.119 | 11.9 | 65 | 0.00 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.137 | 0.122 | 10.9 | 64 | 0.00 |
| 64 | | N-Nitrosodiphenylamine | 0.578 | 0.667 | -15.4 | 75 | 0.00 |
| 65 | | 4-Bromophenyl-phenylether | 0.224 | 0.250 | -11.6 | 74 | 0.00 |
| 66 | | Hexachlorobenzene | 0.250 | 0.269 | -7.6 | 72 | 0.00 |
| 67 | | Atrazine | 0.229 | 0.235 | -2.6 | 69 | 0.00 |
| 68 | C | Pentachlorophenol | 0.158 | 0.149 | 5.7 | 68 | 0.00 |
| 69 | | Phenanthrene | 1.100 | 1.123 | -2.1 | 68 | 0.00 |
| 70 | S | Anthracene-d10 | 0.986 | 1.027 | -4.2 | 69 | 0.00 |
| 71 | | Anthracene | 1.119 | 1.156 | -3.3 | 67 | 0.00 |
| 72 | | Carbazole | 0.970 | 0.931 | 4.0 | 65 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.162 | 1.193 | -2.7 | 66 | 0.00 |
| 74 | C | Fluoranthene | 1.342 | 1.246 | 7.2 | 61 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 54 | 0.00 |
| 76 | S | Pyrene-d10 | 0.902 | 1.095 | -21.4# | 59 | 0.00 |
| 77 | | Pyrene | 1.109 | 1.341 | -20.9# | 59 | 0.00 |
| 78 | | Butylbenzylphthalate | 0.434 | 0.542 | -24.9# | 60 | 0.00 |
| 79 | | 3,3'-Dichlorobenzidine | 0.372 | 0.391 | -5.1 | 55 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.146 | 1.284 | -12.0 | 56 | 0.00 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.646 | 0.755 | -16.9 | 57 | 0.00 |
| 82 | | Chrysene | 1.089 | 1.213 | -11.4 | 56 | 0.00 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 65 | 0.00 |
| 84 | | Di-n-octyl phthalate | 1.168 | 1.166 | 0.2 | 59 | 0.00 |
| 85 | | Benzo(b)fluoranthene | 1.216 | 1.186 | 2.5 | 59 | 0.00 |
| 86 | | Benzo(k)fluoranthene | 1.214 | 1.207 | 0.6 | 61 | 0.00 |
| 87 | S | Benzo(a)pyrene-d12 | 0.962 | 0.987 | -2.6 | 64 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.168 | 1.205 | -3.2 | 64 | 0.00 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.250 | 1.472 | -17.8 | 78 | 0.01 |
| 90 | Dibenzo(a,h)anthracene | 1.027 | 1.217 | -18.5 | 78 | 0.00 |
| 91 | Benzo(g,h,i)perylene | 1.034 | 1.246 | -20.5# | 80 | 0.00 |

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