# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM051816\
Data File : BM005498.D
Acq On : 19 May 2016 08:25
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02046

Quant Time: May 19 08:57:15 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM051816.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed May 18 14:47:27 2016
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 | 45 | 0.00 |
| 2 | | 1,4-Dioxane | 0.581 | 0.527 | 9.3 | 40 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.520 | 0.422 | 18.8 | 37 | 0.00 |
| 4 | | Benzaldehyde | 0.935 | 1.161 | -24.2# | 44 | 0.00 |
| 5 | S | Phenol-d5 | 1.921 | 1.889 | 1.7 | 45 | 0.00 |
| 6 | | Phenol | 2.019 | 2.051 | -1.6 | 46 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.052 | 1.043 | 0.9 | 44 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.460 | 1.408 | 3.6 | 42 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.476 | 1.405 | 4.8 | 44 | 0.00 |
| 10 | | 2-Chlorophenol | 1.518 | 1.474 | 2.9 | 45 | 0.00 |
| 11 | | 2-Methylphenol | 1.570 | 1.590 | -1.3 | 47 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 2.058 | 2.010 | 2.3 | 43 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.636 | 1.592 | 2.7 | 44 | 0.00 |
| 14 | | Acetophenone | 2.489 | 2.585 | -3.9 | 45 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.393 | 1.325 | 4.9 | 44 | 0.00 |
| 16 | | 4-Methylphenol | 1.763 | 1.753 | 0.6 | 45 | 0.00 |
| 17 | | Hexachloroethane | 0.554 | 0.533 | 3.8 | 44 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 44 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.144 | 0.136 | 5.6 | 44 | 0.00 |
| 20 | | Nitrobenzene | 0.359 | 0.362 | -0.8 | 46 | 0.00 |
| 21 | | Isophorone | 0.734 | 0.699 | 4.8 | 43 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.157 | 0.151 | 3.8 | 43 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.170 | 0.169 | 0.6 | 44 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.378 | 0.388 | -2.6 | 46 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.435 | 0.409 | 6.0 | 42 | -0.01 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.312 | 0.314 | -0.6 | 46 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.316 | 0.324 | -2.5 | 46 | 0.00 |
| 28 | | Naphthalene | 1.015 | 1.007 | 0.8 | 45 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.359 | 0.441 | -22.8# | 45 | 0.00 |
| 30 | | 4-Chloroaniline | 0.382 | 0.468 | -22.5# | 46 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.180 | 0.200 | -11.1 | 50 | 0.00 |
| 32 | | Caprolactam | 0.121 | 0.124 | -2.5 | 46 | -0.01 |
| 33 | C | 4-Chloro-3-methylphenol | 0.390 | 0.401 | -2.8 | 46 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.799 | 0.814 | -1.9 | 46 | 0.00 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 47 | 0.00 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.607 | 0.626 | -3.1 | 49 | 0.00 |
| 37 | | Hexachlorocyclopentadiene | 0.337 | 0.284 | 15.7 | 40 | 0.00 |
| 38 | C | 2,4,6-Trichlorophenol | 0.421 | 0.421 | 0.0 | 47 | 0.00 |
| 39 | | 2,4,5-Trichlorophenol | 0.461 | 0.483 | -4.8 | 49 | 0.00 |
| 40 | | 1,1'-Biphenyl | 1.603 | 1.549 | 3.4 | 46 | 0.00 |
| 41 | | 2-Chloronaphthalene | 1.232 | 1.201 | 2.5 | 46 | 0.00 |
| 42 | | 2-Nitroaniline | 0.389 | 0.368 | 5.4 | 45 | 0.00 |
| 43 | S | Dimethylphthalate-d6 | 1.644 | 1.627 | 1.0 | 47 | 0.00 |
| 44 | | Dimethylphthalate | 1.676 | 1.679 | -0.2 | 47 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.323 | 0.315 | 2.5 | 47 | 0.00 |
| 46 | S | Acenaphthylene-d8 | 1.941 | 1.938 | 0.2 | 47 | 0.00 |
| 47 | | Acenaphthylene | 2.010 | 1.993 | 0.8 | 46 | 0.00 |
| 48 | | 3-Nitroaniline | 0.344 | 0.362 | -5.2 | 46 | 0.00 |
| 49 | C | Acenaphthene | 1.373 | 1.360 | 0.9 | 47 | 0.00 |
| 50 | | 2,4-Dinitrophenol | 0.188 | 0.181 | 3.7 | 51 | 0.00 |
| 51 | S | 4-Nitrophenol-d4 | 0.337 | 0.352 | -4.5 | 49 | 0.00 |
| 52 | | 4-Nitrophenol | 0.302 | 0.362 | -19.9 | 55 | 0.00 |
| 53 | | Dibenzofuran | 2.003 | 2.005 | -0.1 | 47 | 0.00 |
| 54 | | 2,4-Dinitrotoluene | 0.490 | 0.500 | -2.0 | 47 | 0.00 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.436 | 0.456 | -4.6 | 49 | 0.00 |
| 56 | | Diethylphthalate | 1.774 | 1.772 | 0.1 | 47 | 0.00 |
| 57 | S | Fluorene-d10 | 1.451 | 1.484 | -2.3 | 48 | 0.00 |
| 58 | | Fluorene | 1.657 | 1.706 | -3.0 | 48 | 0.00 |
| 59 | | 4-Chlorophenyl-phenylether | 0.797 | 0.830 | -4.1 | 48 | 0.00 |
| 60 | | 4-Nitroaniline | 0.403 | 0.437 | -8.4 | 50 | 0.00 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 50 | 0.00 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.105 | 0.097 | 7.6 | 47 | 0.00 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.115 | 0.107 | 7.0 | 47 | 0.00 |
| 64 | | N-Nitrosodiphenylamine | 0.567 | 0.548 | 3.4 | 48 | 0.00 |
| 65 | | 4-Bromophenyl-phenylether | 0.202 | 0.198 | 2.0 | 49 | 0.00 |
| 66 | | Hexachlorobenzene | 0.235 | 0.236 | -0.4 | 50 | 0.00 |
| 67 | | Atrazine | 0.203 | 0.226 | -11.3 | 50 | 0.00 |
| 68 | C | Pentachlorophenol | 0.151 | 0.147 | 2.6 | 48 | 0.00 |
| 69 | | Phenanthrene | 1.138 | 1.127 | 1.0 | 50 | 0.00 |
| 70 | S | Anthracene-d10 | 0.920 | 0.919 | 0.1 | 50 | 0.00 |
| 71 | | Anthracene | 1.125 | 1.143 | -1.6 | 50 | 0.00 |
| 72 | | Carbazole | 1.019 | 1.093 | -7.3 | 50 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.262 | 1.186 | 6.0 | 46 | 0.00 |
| 74 | C | Fluoranthene | 1.331 | 1.505 | -13.1 | 52 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 56 | -0.01 |
| 76 | S | Pyrene-d10 | 0.804 | 0.757 | 5.8 | 53 | 0.00 |
| 77 | | Pyrene | 1.072 | 1.002 | 6.5 | 53 | 0.00 |
| 78 | | Butylbenzylphthalate | 0.455 | 0.404 | 11.2 | 50 | 0.00 |
| 79 | | 3,3'-Dichlorobenzidine | 0.383 | 0.411 | -7.3 | 56 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.175 | 1.168 | 0.6 | 56 | 0.00 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.681 | 0.650 | 4.6 | 52 | -0.01 |
| 82 | | Chrysene | 1.112 | 1.111 | 0.1 | 56 | 0.00 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 60 | -0.01 |
| 84 | | Di-n-octyl phthalate | 1.062 | 0.998 | 6.0 | 54 | -0.01 |
| 85 | | Benzo(b)fluoranthene | 1.145 | 1.144 | 0.1 | 58 | -0.01 |
| 86 | | Benzo(k)fluoranthene | 1.112 | 1.108 | 0.4 | 61 | -0.01 |
| 87 | S | Benzo(a)pyrene-d12 | 0.894 | 0.905 | -1.2 | 61 | 0.00 |

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|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.137 | 1.143 | -0.5 | 60 | -0.01 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.498 | 1.591 | -6.2 | 64 | -0.02 |
| 90 | Dibenzo(a,h)anthracene | 1.244 | 1.318 | -5.9 | 63 | -0.02 |
| 91 | Benzo(g,h,i)perylene | 1.298 | 1.392 | -7.2 | 65 | -0.02 |

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