# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM050216\
Data File : BM005200.D
Acq On : 02 May 2016 20:01
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02060

Quant Time: May 03 03:25:30 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM042516.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 03 03:20:39 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 | 98 | 0.00 |
| 2 | | 1,4-Dioxane | 0.730 | 0.791 | -8.4 | 103 | 0.00 |
| 3 | S | 1,4-Dioxane-d8 | 0.394 | 0.444 | -12.7 | 107 | 0.00 |
| 4 | | Benzaldehyde | 0.821 | 1.136 | -38.4# | 106 | 0.00 |
| 5 | S | Phenol-d5 | 1.654 | 1.843 | -11.4 | 105 | 0.00 |
| 6 | | Phenol | 1.725 | 1.959 | -13.6 | 107 | 0.00 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 0.941 | 1.098 | -16.7 | 108 | 0.00 |
| 8 | | Bis(2-Chloroethyl)ether | 1.322 | 1.510 | -14.2 | 107 | 0.00 |
| 9 | S | 2-Chlorophenol-d4 | 1.309 | 1.437 | -9.8 | 103 | 0.00 |
| 10 | | 2-Chlorophenol | 1.345 | 1.475 | -9.7 | 104 | 0.00 |
| 11 | | 2-Methylphenol | 1.346 | 1.486 | -10.4 | 105 | 0.00 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.710 | 2.033 | -18.9 | 111 | 0.00 |
| 13 | S | 4-Methylphenol-d8 | 1.403 | 1.524 | -8.6 | 104 | 0.00 |
| 14 | | Acetophenone | 2.111 | 2.414 | -14.4 | 103 | 0.00 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.057 | 1.227 | -16.1 | 106 | 0.00 |
| 16 | | 4-Methylphenol | 1.498 | 1.675 | -11.8 | 105 | 0.00 |
| 17 | | Hexachloroethane | 0.536 | 0.579 | -8.0 | 103 | 0.00 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 19 | S | Nitrobenzene-d5 | 0.139 | 0.157 | -12.9 | 105 | 0.00 |
| 20 | | Nitrobenzene | 0.341 | 0.386 | -13.2 | 106 | 0.00 |
| 21 | | Isophorone | 0.647 | 0.739 | -14.2 | 105 | 0.00 |
| 22 | S | 2-Nitrophenol-d4 | 0.155 | 0.176 | -13.5 | 106 | 0.00 |
| 23 | C | 2-Nitrophenol | 0.168 | 0.190 | -13.1 | 103 | 0.00 |
| 24 | | 2,4-Dimethylphenol | 0.362 | 0.392 | -8.3 | 101 | 0.00 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.402 | 0.459 | -14.2 | 107 | 0.00 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.294 | 0.325 | -10.5 | 102 | 0.00 |
| 27 | C | 2,4-Dichlorophenol | 0.302 | 0.334 | -10.6 | 102 | 0.00 |
| 28 | | Naphthalene | 1.009 | 1.090 | -8.0 | 102 | 0.00 |
| 29 | S | 4-Chloroaniline-d4 | 0.344 | 0.435 | -26.5# | 101 | 0.00 |
| 30 | | 4-Chloroaniline | 0.350 | 0.443 | -26.6# | 101 | 0.00 |
| 31 | C | Hexachlorobutadiene | 0.199 | 0.203 | -2.0 | 98 | 0.00 |
| 32 | | Caprolactam | 0.104 | 0.104 | 0.0 | 96 | 0.00 |
| 33 | C | 4-Chloro-3-methylphenol | 0.345 | 0.383 | -11.0 | 102 | 0.00 |
| 34 | | 2-Methylnaphthalene | 0.747 | 0.813 | -8.8 | 101 | 0.00 |
| 35 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 36 | | 1,2,4,5-Tetrachlorobenzene | 0.625 | 0.673 | -7.7 | 97 | 0.00 |
| 37 | | Hexachlorocyclopentadiene | 0.371 | 0.334 | 10.0 | 86 | 0.00 |
| 38 | C | 2,4,6-Trichlorophenol | 0.397 | 0.434 | -9.3 | 97 | 0.00 |
| 39 | | 2,4,5-Trichlorophenol | 0.445 | 0.486 | -9.2 | 96 | 0.00 |
| 40 | | 1,1'-Biphenyl | 1.582 | 1.735 | -9.7 | 98 | 0.00 |
| 41 | | 2-Chloronaphthalene | 1.203 | 1.314 | -9.2 | 98 | 0.00 |
| 42 | | 2-Nitroaniline | 0.326 | 0.393 | -20.6# | 103 | 0.00 |
| 43 | S | Dimethylphthalate-d6 | 1.580 | 1.699 | -7.5 | 95 | 0.00 |
| 44 | | Dimethylphthalate | 1.584 | 1.702 | -7.4 | 95 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 2,6-Dinitrotoluene | 0.306 | 0.347 | -13.4 | 99 | 0.00 |
| 46 | S | Acenaphthylene-d8 | 1.881 | 2.063 | -9.7 | 97 | 0.00 |
| 47 | | Acenaphthylene | 1.990 | 2.194 | -10.3 | 97 | 0.00 |
| 48 | | 3-Nitroaniline | 0.311 | 0.361 | -16.1 | 97 | 0.00 |
| 49 | C | Acenaphthene | 1.309 | 1.430 | -9.2 | 97 | 0.00 |
| 50 | | 2,4-Dinitrophenol | 0.179 | 0.125 | 30.2# | 75 | 0.00 |
| 51 | S | 4-Nitrophenol-d4 | 0.276 | 0.268 | 2.9 | 88 | 0.00 |
| 52 | | 4-Nitrophenol | 0.247 | 0.238 | 3.6 | 88 | 0.00 |
| 53 | | Dibenzofuran | 1.931 | 2.082 | -7.8 | 95 | 0.00 |
| 54 | | 2,4-Dinitrotoluene | 0.465 | 0.504 | -8.4 | 94 | 0.00 |
| 55 | | 2,3,4,6-Tetrachlorophenol | 0.387 | 0.400 | -3.4 | 91 | 0.00 |
| 56 | | Diethylphthalate | 1.599 | 1.715 | -7.3 | 95 | 0.00 |
| 57 | S | Fluorene-d10 | 1.388 | 1.477 | -6.4 | 95 | 0.00 |
| 58 | | Fluorene | 1.499 | 1.638 | -9.3 | 95 | 0.00 |
| 59 | | 4-Chlorophenyl-phenylether | 0.756 | 0.813 | -7.5 | 94 | 0.00 |
| 60 | | 4-Nitroaniline | 0.336 | 0.358 | -6.5 | 93 | 0.00 |
| 61 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 62 | S | 4,6-Dinitro-2-methylphenol- | 0.114 | 0.108 | 5.3 | 81 | 0.00 |
| 63 | | 4,6-Dinitro-2-methylphenol | 0.120 | 0.114 | 5.0 | 79 | 0.00 |
| 64 | | N-Nitrosodiphenylamine | 0.550 | 0.633 | -15.1 | 94 | 0.00 |
| 65 | | 4-Bromophenyl-phenylether | 0.195 | 0.218 | -11.8 | 93 | 0.00 |
| 66 | | Hexachlorobenzene | 0.222 | 0.239 | -7.7 | 89 | 0.00 |
| 67 | | Atrazine | 0.203 | 0.231 | -13.8 | 91 | 0.00 |
| 68 | C | Pentachlorophenol | 0.128 | 0.122 | 4.7 | 83 | 0.00 |
| 69 | | Phenanthrene | 1.064 | 1.177 | -10.6 | 92 | 0.00 |
| 70 | S | Anthracene-d10 | 0.897 | 0.994 | -10.8 | 90 | 0.00 |
| 71 | | Anthracene | 1.073 | 1.186 | -10.5 | 90 | 0.00 |
| 72 | | Carbazole | 0.920 | 1.064 | -15.7 | 90 | 0.00 |
| 73 | | Di-n-butylphthalate | 1.077 | 1.268 | -17.7 | 94 | 0.00 |
| 74 | C | Fluoranthene | 1.171 | 1.317 | -12.5 | 85 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 76 | S | Pyrene-d10 | 0.910 | 1.126 | -23.7# | 84 | 0.00 |
| 77 | | Pyrene | 1.155 | 1.435 | -24.2# | 84 | 0.00 |
| 78 | | Butylbenzylphthalate | 0.444 | 0.576 | -29.7# | 85 | 0.00 |
| 79 | | 3,3'-Dichlorobenzidine | 0.358 | 0.401 | -12.0 | 68 | 0.00 |
| 80 | | Benzo(a)anthracene | 1.145 | 1.256 | -9.7 | 73 | 0.00 |
| 81 | | Bis(2-ethylhexyl)phthalate | 0.624 | 0.819 | -31.2# | 85 | 0.00 |
| 82 | | Chrysene | 1.095 | 1.199 | -9.5 | 74 | 0.00 |
| 83 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 57 | 0.00 |
| 84 | | Di-n-octyl phthalate | 1.243 | 1.632 | -31.3# | 75 | 0.00 |
| 85 | | Benzo(b)fluoranthene | 1.205 | 1.329 | -10.3 | 63 | 0.00 |
| 86 | | Benzo(k)fluoranthene | 1.171 | 1.294 | -10.5 | 62 | 0.00 |
| 87 | S | Benzo(a)pyrene-d12 | 0.896 | 0.977 | -9.0 | 61 | 0.00 |

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| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 88 C | Benzo(a)pyrene | 1.125 | 1.231 | -9.4 | 61 | 0.00 |
| 89 | Indeno(1,2,3-cd)pyrene | 1.073 | 1.230 | -14.6 | 62 | 0.00 |
| 90 | Dibenzo(a,h)anthracene | 0.897 | 1.034 | -15.3 | 62 | 0.00 |
| 91 | Benzo(g,h,i)perylene | 0.878 | 1.012 | -15.3 | 63 | 0.00 |

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