# Evaluate Continuing Calibration Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032519\
Data File : BM019468.D
Acq On : 26 Mar 2019 13:20
Operator : JU/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_M
**LabSampleId :** SSTD02072

Quant Time: Mar 27 03:27:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM032219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Mar 25 03:11:42 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 | 178# | 0.02 |
| 2 | | 1,4-Dioxane | 0.581 | 0.483 | 16.9 | 152# | 0.02 |
| 3 | S | 1,4-Dioxane-d8 | 0.511 | 0.448 | 12.3 | 162# | 0.02 |
| 4 | | Benzaldehyde | 1.276 | 1.175 | 7.9 | 166# | 0.02 |
| 5 | S | Phenol-d5 | 1.781 | 1.586 | 10.9 | 172# | 0.02 |
| 6 | | Phenol | 1.859 | 1.676 | 9.8 | 173# | 0.02 |
| 7 | S | Bis-(2-Chloroethyl)ether-d8 | 1.192 | 1.020 | 14.4 | 162# | 0.02 |
| 8 | | Bis(2-Chloroethyl)ether | 1.422 | 1.271 | 10.6 | 167# | 0.02 |
| 9 | S | 2-Chlorophenol-d4 | 1.350 | 1.277 | 5.4 | 175# | 0.02 |
| 10 | | 2-Chlorophenol | 1.372 | 1.297 | 5.5 | 173# | 0.02 |
| 11 | | 2-Methylphenol | 1.296 | 1.171 | 9.6 | 177# | 0.02 |
| 12 | | 2,2'-oxybis(1-Chloropropane | 1.348 | 1.105 | 18.0 | 164# | 0.04 |
| 13 | S | 4-Methylphenol-d8 | 1.337 | 1.201 | 10.2 | 176# | 0.02 |
| 14 | | Acetophenone | 2.177 | 1.873 | 14.0 | 169# | 0.02 |
| 15 | P | N-Nitroso-di-n-propylamine | 1.220 | 1.051 | 13.9 | 166# | 0.02 |
| 16 | | 4-Methylphenol | 1.422 | 1.270 | 10.7 | 175# | 0.02 |
| 17 | | Hexachloroethane | 0.577 | 0.512 | 11.3 | 173# | 0.02 |
| 18 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 170# | 0.02 |
| 19 | S | Nitrobenzene-d5 | 0.143 | 0.143 | 0.0 | 184# | 0.02 |
| 20 | | Nitrobenzene | 0.425 | 0.374 | 12.0 | 167# | 0.02 |
| 21 | | Isophorone | 0.729 | 0.661 | 9.3 | 169# | 0.02 |
| 22 | S | 2-Nitrophenol-d4 | 0.159 | 0.162 | -1.9 | 181# | 0.02 |
| 23 | C | 2-Nitrophenol | 0.175 | 0.177 | -1.1 | 181# | 0.02 |
| 24 | | 2,4-Dimethylphenol | 0.381 | 0.350 | 8.1 | 169# | 0.02 |
| 25 | | Bis(2-Chloroethoxy)methane | 0.440 | 0.406 | 7.7 | 167# | 0.02 |
| 26 | S | 2,4-Dichlorophenol-d3 | 0.300 | 0.305 | -1.7 | 181# | 0.02 |
| 27 | C | 2,4-Dichlorophenol | 0.296 | 0.297 | -0.3 | 175# | 0.02 |
| 28 | | Naphthalene | 1.036 | 0.973 | 6.1 | 170# | 0.02 |
| 29 | S | 4-Chloroaniline-d4 | 0.360 | 0.357 | 0.8 | 177# | 0.02 |
| 30 | | 4-Chloroaniline | 0.379 | 0.368 | 2.9 | 171# | 0.02 |
| 31 | C | Hexachlorobutadiene | 0.187 | 0.185 | 1.1 | 175# | 0.02 |
| 32 | | Caprolactam | 0.088 | 0.079 | 10.2 | 179# | 0.01 |
| 33 | C | 4-Chloro-3-methylphenol | 0.319 | 0.299 | 6.3 | 171# | 0.02 |
| 34 | | 2-Methylnaphthalene | 0.726 | 0.675 | 7.0 | 169# | 0.02 |
| 35 | | 1-Methylnaphthalene | 0.685 | 0.636 | 7.2 | 171# | 0.02 |
| 36 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 170# | 0.02 |
| 37 | | 1,2,4,5-Tetrachlorobenzene | 0.636 | 0.628 | 1.3 | 176# | 0.02 |
| 38 | | Hexachlorocyclopentadiene | 0.326 | 0.402 | -23.3 | 265# | 0.02 |
| 39 | C | 2,4,6-Trichlorophenol | 0.397 | 0.398 | -0.3 | 176# | 0.02 |
| 40 | | 2,4,5-Trichlorophenol | 0.426 | 0.419 | 1.6 | 177# | 0.02 |
| 41 | | 1,1'-Biphenyl | 1.703 | 1.578 | 7.3 | 169# | 0.02 |
| 42 | | 2-Chloronaphthalene | 1.305 | 1.229 | 5.8 | 171# | 0.02 |
| 43 | | 2-Nitroaniline | 0.358 | 0.324 | 9.5 | 165# | 0.02 |
| 44 | S | Dimethylphthalate-d6 | 1.614 | 1.464 | 9.3 | 165# | 0.02 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | Dimethylphthalate | 1.619 | 1.445 | 10.7 | 162# | 0.02 |
| 46 | | 2,6-Dinitrotoluene | 0.297 | 0.295 | 0.7 | 177# | 0.02 |
| 47 | S | Acenaphthylene-d8 | 2.018 | 1.918 | 5.0 | 169# | 0.02 |
| 48 | | Acenaphthylene | 2.000 | 1.866 | 6.7 | 167# | 0.02 |
| 49 | | 3-Nitroaniline | 0.291 | 0.279 | 4.1 | 177# | 0.02 |
| 50 | C | Acenaphthene | 1.409 | 1.275 | 9.5 | 166# | 0.02 |
| 51 | | 2,4-Dinitrophenol | 0.172 | 0.190 | -10.5 | 261# | 0.01 |
| 52 | S | 4-Nitrophenol-d4 | 0.253 | 0.222 | 12.3 | 182# | 0.02 |
| 53 | | 4-Nitrophenol | 0.198 | 0.157 | 20.7 | 164# | 0.02 |
| 54 | | Dibenzofuran | 1.967 | 1.810 | 8.0 | 168# | 0.02 |
| 55 | | 2,4-Dinitrotoluene | 0.440 | 0.422 | 4.1 | 172# | 0.02 |
| 56 | | 2,3,4,6-Tetrachlorophenol | 0.359 | 0.350 | 2.5 | 172# | 0.02 |
| 57 | | Diethylphthalate | 1.593 | 1.398 | 12.2 | 160# | 0.02 |
| 58 | S | Fluorene-d10 | 1.390 | 1.282 | 7.8 | 168# | 0.02 |
| 59 | | Fluorene | 1.559 | 1.432 | 8.1 | 167# | 0.02 |
| 60 | | 4-Chlorophenyl-phenylether | 0.778 | 0.716 | 8.0 | 168# | 0.02 |
| 61 | | 4-Nitroaniline | 0.318 | 0.280 | 11.9 | 168# | 0.02 |
| 62 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 165# | 0.02 |
| 63 | S | 4,6-Dinitro-2-methylphenol- | 0.132 | 0.118 | 10.6 | 175# | 0.02 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.140 | 0.123 | 12.1 | 168# | 0.01 |
| 65 | | N-Nitrosodiphenylamine | 0.622 | 0.595 | 4.3 | 167# | 0.02 |
| 66 | | 4-Bromophenyl-phenylether | 0.217 | 0.208 | 4.1 | 169# | 0.02 |
| 67 | | Hexachlorobenzene | 0.263 | 0.246 | 6.5 | 167# | 0.02 |
| 68 | | Atrazine | 0.218 | 0.194 | 11.0 | 164# | 0.02 |
| 69 | C | Pentachlorophenol | 0.137 | 0.176 | -28.5# | 256# | 0.02 |
| 70 | | Phenanthrene | 1.134 | 1.050 | 7.4 | 165# | 0.02 |
| 71 | S | Anthracene-d10 | 0.960 | 0.903 | 5.9 | 167# | 0.02 |
| 72 | | Anthracene | 1.157 | 1.072 | 7.3 | 164# | 0.02 |
| 73 | | 1,2,3,4-Tetrachlorobenzene | 0.290 | 0.290 | 0.0 | 173# | 0.02 |
| 74 | | Pentachlorobenzene | 0.303 | 0.288 | 5.0 | 168# | 0.02 |
| 75 | | Carbazole | 1.038 | 0.923 | 11.1 | 165# | 0.02 |
| 76 | | Di-n-butylphthalate | 1.150 | 1.067 | 7.2 | 165# | 0.02 |
| 77 | C | Fluoranthene | 1.299 | 1.170 | 9.9 | 167# | 0.02 |
| 78 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 164# | 0.02 |
| 79 | S | Pyrene-d10 | 0.924 | 0.885 | 4.2 | 168# | 0.02 |
| 80 | | Pyrene | 1.203 | 1.131 | 6.0 | 164# | 0.02 |
| 81 | | Butylbenzylphthalate | 0.476 | 0.443 | 6.9 | 164# | 0.02 |
| 82 | | 3,3'-Dichlorobenzidine | 0.434 | 0.415 | 4.4 | 168# | 0.02 |
| 83 | | Benzo(a)anthracene | 1.204 | 1.135 | 5.7 | 166# | 0.02 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.691 | 0.648 | 6.2 | 165# | 0.02 |
| 85 | | Chrysene | 1.155 | 1.081 | 6.4 | 167# | 0.02 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 173# | 0.03 |
| 87 | | Di-n-octyl phthalate | 1.247 | 1.030 | 17.4 | 161# | 0.02 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 88 | | Benzo(b)fluoranthene | 1.218 | 1.105 | 9.3 | 164# | 0.03 |
| 89 | | Benzo(k)fluoranthene | 1.170 | 1.080 | 7.7 | 170# | 0.02 |
| 90 | S | Benzo(a)pyrene-d12 | 1.060 | 0.995 | 6.1 | 174# | 0.03 |
| 91 | C | Benzo(a)pyrene | 1.165 | 1.076 | 7.6 | 170# | 0.02 |
| 92 | | Indeno(1,2,3-cd)pyrene | 1.458 | 1.365 | 6.4 | 170# | 0.04 |
| 93 | | Dibenzo(a,h)anthracene | 1.243 | 1.166 | 6.2 | 172# | 0.04 |
| 94 | | Benzo(g,h,i)perylene | 1.219 | 1.143 | 6.2 | 170# | 0.04 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1