# Response Factor Report gcms1

Method Path : Z:\HPCHEM1\BNA_M\METHODS\
Method File : SOM01.2-EPA-BM122914.M
Title : SVOA CALIBRATION
Last Update : Wed Jan 14 12:39:50 2015
Response Via : Initial Calibration

Calibration Files
5 =BM000051.D 10 =BM000052.D 20 =BM000053.D
40 =BM000054.D 80 =BM000055.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ----------ISTD---------- | | | | | | |
| 2) | | 1,4-Dioxane | 0.536 | 0.488 | 0.461 | 0.462 | 0.444 | 0.478 | 7.51 |
| 3) | S | 1,4-Dioxane-d8 | 0.347 | 0.351 | 0.340 | 0.339 | 0.347 | 0.345 | 1.45 |
| 4) | | Benzaldehyde | 1.178 | 1.299 | 1.222 | 1.186 | 0.975 | 1.172 | 10.23 |
| 5) | S | Phenol-d5 | 1.513 | 1.701 | 1.622 | 1.774 | 1.802 | 1.682 | 7.00 |
| 6) | | Phenol | 1.641 | 1.800 | 1.731 | 1.838 | 1.863 | 1.774 | 5.05 |
| 7) | S | Bis-(2-Chloroethyl) | 1.057 | 1.102 | 1.004 | 1.073 | 1.081 | 1.063 | 3.49 |
| 8) | | Bis(2-Chloroethyl)e | 1.317 | 1.451 | 1.332 | 1.394 | 1.393 | 1.377 | 3.93 |
| 9) | S | 2-Chlorophenol-d4 | 1.133 | 1.248 | 1.179 | 1.287 | 1.321 | 1.234 | 6.26 |
| 10) | | 2-Chlorophenol | 1.215 | 1.308 | 1.241 | 1.323 | 1.368 | 1.291 | 4.82 |
| 11) | | 2-Methylphenol | 1.241 | 1.395 | 1.322 | 1.416 | 1.458 | 1.366 | 6.27 |
| 12) | | 2,2'-oxybis(1-Chlor | 2.278 | 2.392 | 2.166 | 2.258 | 2.224 | 2.264 | 3.69 |
| 13) | S | 4-Methylphenol-d8 | 1.196 | 1.385 | 1.293 | 1.393 | 1.426 | 1.338 | 7.01 |
| 14) | | Acetophenone | 2.266 | 2.491 | 2.282 | 2.373 | 2.346 | 2.352 | 3.80 |
| 15) | P | N-Nitroso-di-n-prop | 1.142 | 1.299 | 1.195 | 1.235 | 1.245 | 1.223 | 4.82 |
| 16) | | 4-Methylphenol | 1.310 | 1.529 | 1.444 | 1.532 | 1.562 | 1.475 | 6.93 |
| 17) | | Hexachloroethane | 0.560 | 0.616 | 0.556 | 0.596 | 0.620 | 0.590 | 5.15 |
| 18) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.125 | 0.135 | 0.132 | 0.147 | 0.152 | 0.138 | 8.23 |
| 20) | | Nitrobenzene | 0.384 | 0.409 | 0.401 | 0.432 | 0.437 | 0.412 | 5.34 |
| 21) | | Isophorone | 0.754 | 0.809 | 0.771 | 0.820 | 0.819 | 0.795 | 3.79 |
| 22) | S | 2-Nitrophenol-d4 | 0.116 | 0.129 | 0.137 | 0.159 | 0.165 | 0.141 | 14.51 |
| 23) | C | 2-Nitrophenol | 0.131 | 0.145 | 0.157 | 0.171 | 0.176 | 0.156 | 12.08 |
| 24) | | 2,4-Dimethylphenol | 0.394 | 0.428 | 0.414 | 0.440 | 0.440 | 0.423 | 4.59 |
| 25) | | Bis(2-Chloroethoxy) | 0.429 | 0.456 | 0.428 | 0.454 | 0.445 | 0.442 | 2.99 |
| 26) | S | 2,4-Dichlorophenol- | 0.288 | 0.311 | 0.302 | 0.331 | 0.328 | 0.312 | 5.73 |
| 27) | C | 2,4-Dichlorophenol | 0.290 | 0.311 | 0.306 | 0.325 | 0.325 | 0.311 | 4.69 |
| 28) | | Naphthalene | 1.031 | 1.039 | 0.985 | 1.026 | 1.018 | 1.020 | 2.04 |
| 29) | S | 4-Chloroaniline-d4 | 0.278 | 0.336 | 0.393 | 0.400 | 0.363 | 0.354 | 14.07 |
| 30) | | 4-Chloroaniline | 0.279 | 0.346 | 0.408 | 0.414 | 0.374 | 0.364 | 15.10 |
| 31) | C | Hexachlorobutadiene | 0.215 | 0.224 | 0.213 | 0.227 | 0.225 | 0.221 | 2.83 |
| 32) | | Caprolactam | 0.079 | 0.101 | 0.102 | 0.110 | 0.111 | 0.101 | 12.61 |
| 33) | C | 4-Chloro-3-methylph | 0.333 | 0.391 | 0.371 | 0.408 | 0.406 | 0.382 | 8.17 |
| 34) | | 2-Methylnaphthalene | 0.753 | 0.786 | 0.736 | 0.763 | 0.743 | 0.756 | 2.58 |
| 35) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | |
| 36) | | 1,2,4,5-Tetrachloro | 0.539 | 0.567 | 0.535 | 0.570 | 0.562 | 0.555 | 2.91 |
| 37) | | Hexachlorocyclopent | 0.306 | 0.321 | 0.334 | 0.376 | 0.388 | 0.345 | 10.28 |
| 38) | C | 2,4,6-Trichlorophen | 0.311 | 0.342 | 0.344 | 0.384 | 0.387 | 0.354 | 9.09 |
| 39) | | 2,4,5-Trichlorophen | 0.338 | 0.389 | 0.381 | 0.400 | 0.413 | 0.384 | 7.38 |
| 40) | | 1,1'-Biphenyl | 1.417 | 1.471 | 1.412 | 1.472 | 1.434 | 1.441 | 2.01 |
| 41) | | 2-Chloronaphthalene | 1.091 | 1.127 | 1.064 | 1.128 | 1.114 | 1.105 | 2.44 |
| 42) | | 2-Nitroaniline | | 0.330 | 0.352 | 0.404 | 0.420 | 0.377 | 11.23 |
| 43) | S | Dimethylphthalate-d | 1.418 | 1.515 | 1.447 | 1.510 | 1.486 | 1.475 | 2.84 |
| 44) | | Dimethylphthalate | 1.416 | 1.485 | 1.427 | 1.520 | 1.498 | 1.469 | 3.10 |
| 45) | | 2,6-Dinitrotoluene | 0.200 | 0.253 | 0.263 | 0.293 | 0.306 | 0.263 | 15.73 |
| 46) | S | Acenaphthylene-d8 | 1.691 | 1.810 | 1.729 | 1.812 | 1.793 | 1.767 | 3.06 |
| 47) | | Acenaphthylene | 1.813 | 1.908 | 1.835 | 1.904 | 1.857 | 1.863 | 2.26 |
| 48) | | 3-Nitroaniline | | 0.248 | 0.284 | 0.305 | 0.278 | 0.279 | 8.49 |
| 49) | C | Acenaphthene | 1.159 | 1.227 | 1.156 | 1.204 | 1.192 | 1.188 | 2.54 |
| 50) | | 2,4-Dinitrophenol | | 0.102 | 0.112 | 0.139 | 0.160 | 0.128 | 20.69 |
| 51) | S | 4-Nitrophenol-d4 | | 0.215 | 0.232 | 0.253 | 0.261 | 0.240 | 8.77 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 52) | | 4-Nitrophenol | | 0.288 | 0.303 | 0.339 | 0.343 | 0.318 | 8.53 |
| 53) | | Dibenzofuran | 1.690 | 1.793 | 1.676 | 1.741 | 1.698 | 1.720 | 2.76 |
| 54) | | 2,4-Dinitrotoluene | 0.311 | 0.379 | 0.386 | 0.439 | 0.446 | 0.392 | 13.92 |
| 55) | | 2,3,4,6-Tetrachloro | 0.271 | 0.329 | 0.338 | 0.360 | 0.359 | 0.331 | 10.93 |
| 56) | | Diethylphthalate | 1.441 | 1.580 | 1.519 | 1.595 | 1.585 | 1.544 | 4.21 |
| 57) | S | Fluorene-d10 | 1.242 | 1.315 | 1.243 | 1.278 | 1.256 | 1.267 | 2.42 |
| 58) | | Fluorene | 1.436 | 1.497 | 1.397 | 1.420 | 1.385 | 1.427 | 3.07 |
| 59) | | 4-Chlorophenyl-phen | 0.710 | 0.736 | 0.681 | 0.700 | 0.691 | 0.704 | 3.00 |
| 60) | | 4-Nitroaniline | | 0.312 | 0.306 | 0.325 | 0.306 | 0.312 | 2.80 |
| 61) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | |
| 62) | S | 4,6-Dinitro-2-methy | | 0.080 | 0.084 | 0.102 | 0.113 | 0.095 | 16.51 |
| 63) | | 4,6-Dinitro-2-methy | | 0.082 | 0.088 | 0.105 | 0.115 | 0.098 | 15.36 |
| 64) | | N-Nitrosodiphenylam | 0.579 | 0.595 | 0.559 | 0.590 | 0.577 | 0.580 | 2.35 |
| 65) | | 4-Bromophenyl-pheny | 0.202 | 0.210 | 0.194 | 0.208 | 0.205 | 0.204 | 3.00 |
| 66) | | Hexachlorobenzene | 0.237 | 0.241 | 0.225 | 0.238 | 0.234 | 0.235 | 2.56 |
| 67) | | Atrazine | 0.207 | 0.232 | 0.223 | 0.236 | 0.230 | 0.226 | 5.07 |
| 68) | C | Pentachlorophenol | | 0.132 | 0.131 | 0.151 | 0.153 | 0.142 | 8.46 |
| 69) | | Phenanthrene | 1.065 | 1.118 | 1.065 | 1.105 | 1.060 | 1.083 | 2.47 |
| 70) | S | Anthracene-d10 | 0.906 | 0.960 | 0.901 | 0.943 | 0.914 | 0.925 | 2.72 |
| 71) | | Anthracene | 1.108 | 1.169 | 1.083 | 1.126 | 1.080 | 1.113 | 3.26 |
| 72) | | Carbazole | 0.922 | 1.077 | 0.991 | 1.039 | 1.001 | 1.006 | 5.76 |
| 73) | | Di-n-butylphthalate | 1.026 | 1.250 | 1.204 | 1.267 | 1.233 | 1.196 | 8.17 |
| 74) | C | Fluoranthene | 1.170 | 1.349 | 1.261 | 1.302 | 1.245 | 1.265 | 5.28 |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | |
| 76) | S | Pyrene-d10 | 0.923 | 0.888 | 0.879 | 0.958 | 0.965 | 0.923 | 4.26 |
| 77) | | Pyrene | 1.242 | 1.164 | 1.165 | 1.231 | 1.225 | 1.205 | 3.15 |
| 78) | | Butylbenzylphthalat | 0.379 | 0.459 | 0.480 | 0.553 | 0.577 | 0.490 | 16.16 |
| 79) | | 3,3'-Dichlorobenzid | 0.262 | 0.347 | 0.383 | 0.402 | 0.369 | 0.353 | 15.49 |
| 80) | | Benzo(a)anthracene | 1.122 | 1.194 | 1.095 | 1.182 | 1.180 | 1.155 | 3.75 |
| 81) | | Bis(2-ethylhexyl)ph | 0.553 | 0.696 | 0.717 | 0.782 | 0.817 | 0.713 | 14.27 |
| 82) | | Chrysene | 1.040 | 1.094 | 1.049 | 1.097 | 1.039 | 1.064 | 2.76 |
| 83) | I | Perylene-d12 | ----------ISTD---------- | | | | | | |
| 84) | | Di-n-octyl phthalat | 0.964 | 1.230 | 1.307 | 1.457 | 1.534 | 1.298 | 17.12 |
| 85) | | Benzo(b)fluoranthen | 1.216 | 1.203 | 1.280 | 1.288 | 1.395 | 1.276 | 5.97 |
| 86) | | Benzo(k)fluoranthen | 0.995 | 1.175 | 1.049 | 1.156 | 1.074 | 1.090 | 6.88 |
| 87) | S | Benzo(a)pyrene-d12 | 0.838 | 0.915 | 0.885 | 0.942 | 0.959 | 0.908 | 5.29 |
| 88) | C | Benzo(a)pyrene | 1.060 | 1.149 | 1.114 | 1.139 | 1.144 | 1.121 | 3.28 |
| 89) | | Indeno(1,2,3-cd)pyr | 1.184 | 1.233 | 1.113 | 1.173 | 1.146 | 1.170 | 3.80 |
| 90) | | Dibenzo(a,h)anthrac | 0.992 | 1.033 | 0.942 | 0.988 | 0.969 | 0.985 | 3.39 |
| 91) | | Benzo(g,h,i)perylen | 0.992 | 1.007 | 0.907 | 0.960 | 0.939 | 0.961 | 4.15 |

(#) = Out of Range