# Response Factor Report GC/MS Ins

Method Path : Z:\HPCHEM1\BNA_G\METHODS\
Method File : SOM-EPA-BG071717.M
Title : SVOA CALIBRATION
Last Update : Mon Jul 17 16:40:57 2017
Response Via : Initial Calibration

Calibration Files
5 =BG027943.D 10 =BG027944.D 20 =BG027945.D
40 =BG027946.D 80 =BG027947.D 160 =BG027948.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.557 | 0.432 | 0.424 | 0.393 | 0.395 | | 0.440 | 15.33 |
| 3) | S | 1,4-Dioxane-d8 | 0.355 | 0.342 | 0.382 | 0.371 | 0.363 | | 0.363 | 4.20 |
| 4) | | Benzaldehyde | | 0.992 | 1.060 | 1.095 | 1.030 | 0.919 | 1.019 | 6.62 |
| 5) | S | Phenol-d5 | | 1.459 | 1.595 | 1.752 | 1.698 | 1.715 | 1.644 | 7.20 |
| 6) | | Phenol | | 1.481 | 1.580 | 1.665 | 1.623 | 1.627 | 1.595 | 4.43 |
| 7) | S | Bis-(2-Chloroethy | | 0.877 | 0.962 | 0.995 | 0.946 | 0.957 | 0.948 | 4.57 |
| 8) | | Bis(2-Chloroethyl | | 1.110 | 1.166 | 1.181 | 1.142 | 1.148 | 1.150 | 2.32 |
| 9) | S | 2-Chlorophenol-d4 | 1.201 | 1.201 | 1.328 | 1.376 | 1.351 | | 1.291 | 6.52 |
| 10) | | 2-Chlorophenol | 1.149 | 1.141 | 1.211 | 1.252 | 1.249 | | 1.200 | 4.42 |
| 11) | | 2-Methylphenol | | 1.067 | 1.138 | 1.219 | 1.200 | 1.232 | 1.171 | 5.84 |
| 12) | | 2,2'-oxybis(1-Chl | | 2.107 | 2.230 | 2.271 | 2.146 | 2.085 | 2.168 | 3.68 |
| 13) | S | 4-Methylphenol-d8 | | 1.238 | 1.352 | 1.432 | 1.380 | 1.400 | 1.360 | 5.46 |
| 14) | | Acetophenone | | 1.806 | 1.900 | 2.014 | 1.929 | 1.940 | 1.918 | 3.92 |
| 15) | P | N-Nitroso-di-n-pr | 0.909 | 0.943 | 0.976 | 1.062 | 1.027 | | 0.983 | 6.28 |
| 16) | | 4-Methylphenol | | 1.166 | 1.292 | 1.351 | 1.298 | 1.310 | 1.283 | 5.41 |
| 17) | | Hexachloroethane | 0.473 | 0.459 | 0.486 | 0.505 | 0.495 | | 0.483 | 3.71 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.137 | 0.141 | 0.146 | 0.155 | 0.158 | | 0.147 | 6.09 |
| 20) | | Nitrobenzene | 0.317 | 0.333 | 0.343 | 0.354 | 0.354 | | 0.340 | 4.57 |
| 21) | | Isophorone | 0.558 | 0.608 | 0.621 | 0.656 | 0.655 | | 0.620 | 6.56 |
| 22) | S | 2-Nitrophenol-d4 | 0.162 | 0.161 | 0.177 | 0.191 | 0.193 | | 0.177 | 8.70 |
| 23) | C | 2-Nitrophenol | 0.147 | 0.166 | 0.169 | 0.183 | 0.186 | | 0.170 | 9.21 |
| 24) | | 2,4-Dimethylpheno | 0.334 | 0.355 | 0.359 | 0.370 | 0.365 | | 0.357 | 3.91 |
| 25) | | Bis(2-Chloroethox | 0.341 | 0.374 | 0.372 | 0.383 | 0.388 | | 0.372 | 4.93 |
| 26) | S | 2,4-Dichloropheno | 0.306 | 0.341 | 0.345 | 0.370 | 0.370 | | 0.346 | 7.65 |
| 27) | C | 2,4-Dichloropheno | 0.289 | 0.344 | 0.339 | 0.348 | 0.356 | | 0.335 | 7.91 |
| 28) | | Naphthalene | 0.912 | 0.947 | 0.956 | 0.967 | 0.956 | | 0.948 | 2.22 |
| 29) | S | 4-Chloroaniline-d | | 0.263 | 0.287 | 0.347 | 0.361 | 0.308 | 0.313 | 13.00 |
| 30) | | 4-Chloroaniline | | 0.244 | 0.263 | 0.324 | 0.337 | 0.281 | 0.290 | 13.73 |
| 31) | C | Hexachlorobutadie | 0.254 | 0.269 | 0.267 | 0.272 | 0.279 | | 0.268 | 3.39 |
| 32) | | Caprolactam | | 0.096 | 0.100 | 0.101 | 0.102 | 0.100 | 0.100 | 2.51 |
| 33) | C | 4-Chloro-3-methyl | 0.296 | 0.325 | 0.320 | 0.329 | 0.328 | | 0.320 | 4.24 |
| 34) | | 2-Methylnaphthale | 0.720 | 0.774 | 0.782 | 0.781 | 0.775 | | 0.766 | 3.45 |
| 35) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 36) | | 1,2,4,5-Tetrachlo | 0.702 | 0.713 | 0.756 | 0.784 | 0.806 | | 0.752 | 5.95 |
| 37) | | Hexachlorocyclope | | 0.331 | 0.393 | 0.457 | 0.497 | 0.548 | 0.445 | 19.20 |
| 38) | C | 2,4,6-Trichloroph | 0.392 | 0.418 | 0.464 | 0.494 | 0.502 | | 0.454 | 10.54 |
| 39) | | 2,4,5-Trichloroph | 0.443 | 0.478 | 0.488 | 0.513 | 0.516 | | 0.488 | 6.11 |
| 40) | | 1,1'-Biphenyl | 1.453 | 1.482 | 1.569 | 1.569 | 1.569 | | 1.528 | 3.69 |
| 41) | | 2-Chloronaphthale | 1.153 | 1.173 | 1.211 | 1.252 | 1.252 | | 1.208 | 3.71 |
| 42) | | 2-Nitroaniline | 0.306 | 0.326 | 0.355 | 0.367 | 0.373 | | 0.345 | 8.23 |
| 43) | S | Dimethylphthalate | 1.667 | 1.754 | 1.753 | 1.757 | 1.738 | | 1.734 | 2.19 |
| 44) | | Dimethylphthalate | 1.518 | 1.591 | 1.606 | 1.600 | 1.578 | | 1.579 | 2.24 |
| 45) | | 2,6-Dinitrotoluen | 0.273 | 0.310 | 0.323 | 0.339 | 0.353 | | 0.319 | 9.53 |
| 46) | S | Acenaphthylene-d8 | 1.873 | 1.936 | 1.985 | 2.031 | 2.028 | | 1.971 | 3.39 |
| 47) | | Acenaphthylene | 1.831 | 1.920 | 1.975 | 1.990 | 1.964 | | 1.936 | 3.31 |
| 48) | | 3-Nitroaniline | | 0.239 | 0.274 | 0.293 | 0.306 | 0.277 | 0.278 | 9.09 |
| 49) | C | Acenaphthene | 1.270 | 1.307 | 1.309 | 1.334 | 1.329 | | 1.310 | 1.92 |
| 50) | | 2,4-Dinitrophenol | | 0.110 | 0.157 | 0.191 | 0.217 | 0.246 | 0.184 | 28.73 |
| 51) | S | 4-Nitrophenol-d4 | | 0.196 | 0.239 | 0.248 | 0.282 | 0.292 | 0.251 | 15.19 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | | 4-Nitrophenol | | 0.151 | 0.203 | 0.205 | 0.226 | 0.227 | 0.202 | 15.35 |
| 53) | | Dibenzofuran | 1.906 | 1.944 | 1.965 | 1.953 | 1.916 | | 1.937 | 1.29 |
| 54) | | 2,4-Dinitrotoluen | 0.392 | 0.458 | 0.501 | 0.484 | 0.493 | | 0.466 | 9.54 |
| 55) | | 2,3,4,6-Tetrachlo | 0.385 | 0.444 | 0.483 | 0.494 | 0.517 | | 0.465 | 11.09 |
| 56) | | Diethylphthalate | 1.778 | 1.668 | 1.645 | 1.592 | 1.549 | | 1.646 | 5.28 |
| 57) | S | Fluorene-d10 | 1.624 | 1.623 | 1.659 | 1.631 | 1.635 | | 1.634 | 0.90 |
| 58) | | Fluorene | 1.640 | 1.667 | 1.701 | 1.662 | 1.656 | | 1.665 | 1.37 |
| 59) | | 4-Chlorophenyl-ph | 0.905 | 0.924 | 0.927 | 0.927 | 0.933 | | 0.923 | 1.16 |
| 60) | | 4-Nitroaniline | | 0.294 | 0.341 | 0.332 | 0.342 | 0.338 | 0.329 | 6.11 |
| 61) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 62) | S | 4,6-Dinitro-2-met | | 0.107 | 0.128 | 0.140 | 0.154 | 0.165 | 0.139 | 16.23 |
| 63) | | 4,6-Dinitro-2-met | | 0.105 | 0.120 | 0.137 | 0.147 | 0.156 | 0.133 | 15.56 |
| 64) | | N-Nitrosodiphenyl | 0.509 | 0.519 | 0.544 | 0.563 | 0.560 | | 0.539 | 4.51 |
| 65) | | 4-Bromophenyl-phe | 0.222 | 0.234 | 0.241 | 0.260 | 0.262 | | 0.244 | 7.09 |
| 66) | | Hexachlorobenzene | 0.241 | 0.251 | 0.254 | 0.265 | 0.271 | | 0.256 | 4.56 |
| 67) | | Atrazine | | 0.212 | 0.234 | 0.240 | 0.248 | 0.253 | 0.237 | 6.66 |
| 68) | C | Pentachlorophenol | | 0.097 | 0.126 | 0.142 | 0.158 | 0.173 | 0.139 | 21.02# |
| 69) | | Phenanthrene | 1.002 | 1.019 | 1.049 | 1.031 | 1.024 | | 1.025 | 1.69 |
| 70) | S | Anthracene-d10 | 0.935 | 0.947 | 0.989 | 0.979 | 0.973 | | 0.964 | 2.34 |
| 71) | | Anthracene | 1.006 | 1.043 | 1.083 | 1.081 | 1.042 | | 1.051 | 3.04 |
| 72) | | Carbazole | | 0.821 | 0.893 | 0.876 | 0.891 | 0.851 | 0.866 | 3.53 |
| 73) | | Di-n-butylphthala | 0.843 | 0.899 | 1.000 | 1.002 | 1.005 | | 0.950 | 7.86 |
| 74) | C | Fluoranthene | | 1.224 | 1.321 | 1.296 | 1.282 | 1.151 | 1.255 | 5.41 |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 76) | S | Pyrene-d10 | 0.887 | 0.902 | 0.929 | 0.912 | 0.863 | | 0.899 | 2.79 |
| 77) | | Pyrene | 1.065 | 1.073 | 1.106 | 1.073 | 0.980 | | 1.060 | 4.47 |
| 78) | | Butylbenzylphthal | 0.310 | 0.320 | 0.344 | 0.363 | 0.361 | | 0.340 | 7.10 |
| 79) | | 3,3'-Dichlorobenz | | 0.290 | 0.313 | 0.346 | 0.356 | 0.320 | 0.325 | 8.13 |
| 80) | | Benzo(a)anthracen | 1.061 | 1.078 | 1.124 | 1.104 | 1.043 | | 1.082 | 2.98 |
| 81) | | Bis(2-ethylhexyl) | 0.436 | 0.451 | 0.496 | 0.518 | 0.520 | | 0.484 | 8.05 |
| 82) | | Chrysene | 0.986 | 1.001 | 1.004 | 0.992 | 0.941 | | 0.985 | 2.60 |
| 83) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 84) | | Di-n-octyl phthal | | 0.820 | 0.919 | 0.975 | 0.987 | 0.937 | 0.928 | 7.11 |
| 85) | | Benzo(b)fluoranth | 1.051 | 1.103 | 1.169 | 1.185 | 1.198 | | 1.141 | 5.44 |
| 86) | | Benzo(k)fluoranth | 1.050 | 1.096 | 1.133 | 1.177 | 1.142 | | 1.119 | 4.33 |
| 87) | S | Benzo(a)pyrene-d1 | 0.852 | 0.894 | 0.954 | 0.977 | 0.994 | | 0.934 | 6.37 |
| 88) | C | Benzo(a)pyrene | 1.024 | 1.067 | 1.123 | 1.156 | 1.145 | | 1.103 | 5.05 |
| 89) | | Indeno(1,2,3-cd)p | 1.107 | 1.194 | 1.277 | 1.324 | 1.351 | | 1.251 | 7.99 |
| 90) | | Dibenzo(a,h)anthr | 0.879 | 0.997 | 1.099 | 1.122 | 1.151 | | 1.050 | 10.63 |
| 91) | | Benzo(g,h,i)peryl | 0.933 | 1.007 | 1.045 | 1.079 | 1.095 | | 1.032 | 6.29 |

(#) = Out of Range