# Response Factor Report GC/MS Ins

Method Path : Z:\HPCHEM1\BNA_G\METHODS\
Method File : SOM-EPA-BG080217.M
Title : SVOA CALIBRATION
Last Update : Thu Aug 03 18:06:20 2017
Response Via : Initial Calibration

Calibration Files
5 =BG028102.D 10 =BG028103.D 20 =BG028125.D
40 =BG028105.D 80 =BG028106.D 160 =BG028107.D

| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzene-d | ---------- | ISTD | ---------- | | | | | |
| 2) | | 1,4-Dioxane | 0.491 | 0.454 | 0.439 | 0.462 | 0.410 | | 0.451 | 6.58 |
| 3) | S | 1,4-Dioxane-d8 | 0.489 | 0.467 | 0.388 | 0.413 | 0.390 | | 0.429 | 10.71 |
| 4) | | Benzaldehyde | | 1.322 | 1.358 | 1.472 | 1.176 | 1.018 | 1.269 | 13.85 |
| 5) | S | Phenol-d5 | | 1.927 | 2.093 | 2.280 | 2.308 | 2.375 | 2.197 | 8.35 |
| 6) | | Phenol | | 1.950 | 2.103 | 2.308 | 2.263 | 2.291 | 2.183 | 7.03 |
| 7) | S | Bis-(2-Chloroethy | | 1.303 | 1.397 | 1.442 | 1.399 | 1.415 | 1.391 | 3.78 |
| 8) | | Bis(2-Chloroethyl | | 1.419 | 1.473 | 1.540 | 1.484 | 1.520 | 1.487 | 3.13 |
| 9) | S | 2-Chlorophenol-d4 | 1.258 | 1.255 | 1.418 | 1.502 | 1.497 | | 1.386 | 8.85 |
| 10) | | 2-Chlorophenol | 1.288 | 1.226 | 1.344 | 1.443 | 1.451 | | 1.350 | 7.23 |
| 11) | | 2-Methylphenol | | 1.323 | 1.524 | 1.573 | 1.603 | 1.682 | 1.541 | 8.74 |
| 12) | | 2,2'-oxybis(1-Chl | | 3.501 | 3.706 | 3.779 | 3.579 | 3.484 | 3.610 | 3.57 |
| 13) | S | 4-Methylphenol-d8 | | 1.618 | 1.836 | 1.912 | 1.878 | 1.936 | 1.836 | 6.96 |
| 14) | | Acetophenone | | 2.379 | 2.677 | 2.675 | 2.640 | 2.721 | 2.618 | 5.22 |
| 15) | P | N-Nitroso-di-n-pr | 1.308 | 1.359 | 1.557 | 1.625 | 1.591 | | 1.488 | 9.69 |
| 16) | | 4-Methylphenol | | 1.529 | 1.745 | 1.824 | 1.769 | 1.832 | 1.740 | 7.10 |
| 17) | | Hexachloroethane | 0.559 | 0.533 | 0.568 | 0.584 | 0.554 | | 0.560 | 3.38 |
| 18) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | |
| 19) | S | Nitrobenzene-d5 | 0.146 | 0.157 | 0.154 | 0.161 | 0.164 | | 0.156 | 4.55 |
| 20) | | Nitrobenzene | 0.426 | 0.448 | 0.445 | 0.471 | 0.474 | | 0.453 | 4.33 |
| 21) | | Isophorone | 0.777 | 0.840 | 0.858 | 0.914 | 0.912 | | 0.860 | 6.62 |
| 22) | S | 2-Nitrophenol-d4 | 0.144 | 0.163 | 0.171 | 0.188 | 0.191 | | 0.171 | 11.34 |
| 23) | C | 2-Nitrophenol | 0.161 | 0.155 | 0.174 | 0.187 | 0.189 | | 0.173 | 8.70 |
| 24) | | 2,4-Dimethylpheno | 0.407 | 0.418 | 0.435 | 0.447 | 0.445 | | 0.430 | 4.01 |
| 25) | | Bis(2-Chloroethox | 0.438 | 0.466 | 0.473 | 0.483 | 0.483 | | 0.469 | 3.98 |
| 26) | S | 2,4-Dichloropheno | 0.333 | 0.340 | 0.348 | 0.374 | 0.381 | | 0.355 | 5.97 |
| 27) | C | 2,4-Dichloropheno | 0.300 | 0.324 | 0.315 | 0.332 | 0.343 | | 0.323 | 5.12 |
| 28) | | Naphthalene | 0.971 | 0.975 | 0.984 | 1.013 | 1.010 | | 0.991 | 1.98 |
| 29) | S | 4-Chloroaniline-d | | 0.377 | 0.441 | 0.455 | 0.405 | 0.296 | 0.395 | 15.99 |
| 30) | | 4-Chloroaniline | | 0.374 | 0.425 | 0.434 | 0.394 | 0.288 | 0.383 | 15.20 |
| 31) | C | Hexachlorobutadie | 0.244 | 0.239 | 0.231 | 0.239 | 0.239 | | 0.238 | 1.90 |
| 32) | | Caprolactam | | 0.134 | 0.132 | 0.138 | 0.138 | 0.130 | 0.134 | 2.43 |
| 33) | C | 4-Chloro-3-methyl | 0.368 | 0.399 | 0.416 | 0.447 | 0.431 | | 0.412 | 7.33 |
| 34) | | 2-Methylnaphthale | 0.747 | 0.783 | 0.788 | 0.836 | 0.824 | | 0.796 | 4.47 |
| 35) | I | Acenaphthene-d10 | ---------- | ISTD | ---------- | | | | | |
| 36) | | 1,2,4,5-Tetrachlo | 0.625 | 0.618 | 0.616 | 0.663 | 0.700 | | 0.645 | 5.65 |
| 37) | | Hexachlorocyclope | | 0.263 | 0.312 | 0.361 | 0.399 | 0.444 | 0.356 | 19.99 |
| 38) | C | 2,4,6-Trichloroph | 0.334 | 0.367 | 0.396 | 0.441 | 0.471 | | 0.402 | 13.73 |
| 39) | | 2,4,5-Trichloroph | 0.373 | 0.404 | 0.430 | 0.490 | 0.492 | | 0.438 | 12.02 |
| 40) | | 1,1'-Biphenyl | 1.382 | 1.437 | 1.423 | 1.528 | 1.534 | | 1.461 | 4.61 |
| 41) | | 2-Chloronaphthale | 1.134 | 1.132 | 1.139 | 1.171 | 1.195 | | 1.154 | 2.40 |
| 42) | | 2-Nitroaniline | 0.397 | 0.441 | 0.501 | 0.542 | 0.538 | | 0.484 | 13.01 |
| 43) | S | Dimethylphthalate | 1.709 | 1.754 | 1.793 | 1.842 | 1.795 | | 1.779 | 2.81 |
| 44) | | Dimethylphthalate | 1.605 | 1.633 | 1.621 | 1.697 | 1.632 | | 1.638 | 2.14 |
| 45) | | 2,6-Dinitrotoluen | 0.279 | 0.313 | 0.348 | 0.375 | 0.375 | | 0.338 | 12.29 |
| 46) | S | Acenaphthylene-d8 | 1.833 | 1.992 | 1.980 | 2.123 | 2.101 | | 2.006 | 5.76 |
| 47) | | Acenaphthylene | 1.838 | 1.893 | 1.895 | 1.988 | 1.970 | | 1.917 | 3.20 |
| 48) | | 3-Nitroaniline | | 0.277 | 0.314 | 0.329 | 0.304 | 0.299 | 0.305 | 6.35 |
| 49) | C | Acenaphthene | 1.203 | 1.262 | 1.304 | 1.354 | 1.344 | | 1.293 | 4.81 |
| 50) | | 2,4-Dinitrophenol | | 0.120 | 0.162 | 0.201 | 0.226 | 0.244 | 0.191 | 26.37 |
| 51) | S | 4-Nitrophenol-d4 | | 0.240 | 0.275 | 0.299 | 0.302 | 0.299 | 0.283 | 9.36 |

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| | | Compound | 5 | 10 | 20 | 40 | 80 | 160 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 52) | | 4-Nitrophenol | | 0.258 | 0.294 | 0.316 | 0.305 | 0.292 | 0.293 | 7.51 |
| 53) | | Dibenzofuran | 1.883 | 1.864 | 1.869 | 1.931 | 1.880 | | 1.886 | 1.42 |
| 54) | | 2,4-Dinitrotoluen | 0.458 | 0.493 | 0.514 | 0.551 | 0.547 | | 0.512 | 7.53 |
| 55) | | 2,3,4,6-Tetrachlo | 0.356 | 0.370 | 0.403 | 0.447 | 0.464 | | 0.408 | 11.56 |
| 56) | | Diethylphthalate | 2.115 | 1.942 | 1.881 | 1.885 | 1.785 | | 1.921 | 6.34 |
| 57) | S | Fluorene-d10 | 1.569 | 1.554 | 1.577 | 1.647 | 1.633 | | 1.596 | 2.59 |
| 58) | | Fluorene | 1.691 | 1.642 | 1.638 | 1.716 | 1.660 | | 1.669 | 2.02 |
| 59) | | 4-Chlorophenyl-ph | 0.920 | 0.871 | 0.865 | 0.909 | 0.913 | | 0.896 | 2.84 |
| 60) | | 4-Nitroaniline | | 0.352 | 0.352 | 0.386 | 0.357 | 0.360 | 0.361 | 3.94 |
| 61) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | |
| 62) | S | 4,6-Dinitro-2-met | | 0.103 | 0.116 | 0.133 | 0.143 | 0.155 | 0.130 | 15.99 |
| 63) | | 4,6-Dinitro-2-met | | 0.108 | 0.118 | 0.134 | 0.145 | 0.154 | 0.132 | 14.08 |
| 64) | | N-Nitrosodiphenyl | 0.492 | 0.503 | 0.521 | 0.550 | 0.565 | | 0.526 | 5.90 |
| 65) | | 4-Bromophenyl-phe | 0.196 | 0.200 | 0.212 | 0.226 | 0.241 | | 0.215 | 8.81 |
| 66) | | Hexachlorobenzene | 0.219 | 0.214 | 0.221 | 0.239 | 0.251 | | 0.229 | 6.95 |
| 67) | | Atrazine | | 0.220 | 0.226 | 0.237 | 0.235 | 0.230 | 0.229 | 2.95 |
| 68) | C | Pentachlorophenol | | 0.079 | 0.098 | 0.120 | 0.134 | 0.149 | 0.116 | 24.14# |
| 69) | | Phenanthrene | 0.993 | 0.979 | 0.994 | 1.029 | 1.037 | | 1.007 | 2.51 |
| 70) | S | Anthracene-d10 | 0.945 | 0.945 | 0.926 | 0.985 | 0.995 | | 0.959 | 3.07 |
| 71) | | Anthracene | 0.998 | 1.018 | 1.005 | 1.059 | 1.064 | | 1.029 | 2.98 |
| 72) | | Carbazole | | 0.892 | 0.872 | 0.916 | 0.905 | 0.889 | 0.895 | 1.86 |
| 73) | | Di-n-butylphthala | 1.063 | 1.069 | 1.114 | 1.176 | 1.147 | | 1.114 | 4.37 |
| 74) | C | Fluoranthene | | 1.217 | 1.222 | 1.228 | 1.243 | 1.206 | 1.223 | 1.12 |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | |
| 76) | S | Pyrene-d10 | 0.992 | 1.018 | 1.048 | 1.063 | 1.006 | | 1.026 | 2.86 |
| 77) | | Pyrene | 1.172 | 1.211 | 1.203 | 1.228 | 1.152 | | 1.193 | 2.56 |
| 78) | | Butylbenzylphthal | 0.384 | 0.442 | 0.446 | 0.486 | 0.477 | | 0.447 | 8.98 |
| 79) | | 3,3'-Dichlorobenz | | 0.352 | 0.396 | 0.412 | 0.380 | 0.390 | 0.386 | 5.76 |
| 80) | | Benzo(a)anthracen | 1.110 | 1.159 | 1.145 | 1.206 | 1.159 | | 1.156 | 2.97 |
| 81) | | Bis(2-ethylhexyl) | 0.599 | 0.593 | 0.624 | 0.687 | 0.675 | | 0.636 | 6.81 |
| 82) | | Chrysene | 1.005 | 1.037 | 1.042 | 1.076 | 1.043 | | 1.041 | 2.43 |
| 83) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 84) | | Di-n-octyl phthal | | 1.074 | 1.156 | 1.278 | 1.273 | 1.212 | 1.199 | 7.16 |
| 85) | | Benzo(b)fluoranth | 1.123 | 1.136 | 1.165 | 1.281 | 1.279 | | 1.197 | 6.47 |
| 86) | | Benzo(k)fluoranth | 1.046 | 1.093 | 1.184 | 1.258 | 1.264 | | 1.169 | 8.36 |
| 87) | S | Benzo(a)pyrene-d1 | 0.850 | 0.872 | 0.923 | 1.012 | 1.024 | | 0.936 | 8.49 |
| 88) | C | Benzo(a)pyrene | 1.064 | 1.093 | 1.141 | 1.244 | 1.252 | | 1.159 | 7.42 |
| 89) | | Indeno(1,2,3-cd)p | 1.264 | 1.275 | 1.305 | 1.457 | 1.483 | | 1.357 | 7.73 |
| 90) | | Dibenzo(a,h)anthr | 1.032 | 1.059 | 1.103 | 1.232 | 1.261 | | 1.137 | 9.11 |
| 91) | | Benzo(g,h,i)peryl | 1.026 | 1.067 | 1.091 | 1.187 | 1.210 | | 1.116 | 7.08 |

(#) = Out of Range