Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.D

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | |
| 2) | | 1,4-Dioxane | 0.434 | 0.439 | 0.498 | 0.451 | 0.440 | 0.445 | 0.399 | 0.444 | 6.60 |
| 3) | | n-Nitrosodimet... | 1.112 | 0.874 | 0.935 | 0.841 | 0.850 | 0.883 | 0.789 | 0.898 | 11.64 |
| 4) | S | 2-Fluorophenol | 0.931 | 0.908 | 0.987 | 0.878 | 0.914 | 0.996 | 0.911 | 0.932 | 4.67 |
| 5) | S | Phenol-d6 | 1.243 | 1.057 | 1.128 | 1.067 | 1.133 | 1.254 | 1.180 | 1.152 | 6.79 |
| 6) | | bis(2-Chloroet... | 1.426 | 1.150 | 1.183 | 1.129 | 1.132 | 1.210 | 1.104 | 1.190 | 9.22 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.572 | 0.396 | 0.415 | 0.401 | 0.402 | 0.450 | 0.411 | 0.435 | 14.47 |
| 9) | | Naphthalene | 1.371 | 1.125 | 1.206 | 1.111 | 1.108 | 1.222 | 1.094 | 1.177 | 8.45 |
| 10) | | Hexachlorobuta... | 0.296 | 0.283 | 0.294 | 0.267 | 0.261 | 0.286 | 0.251 | 0.277 | 6.24 |
| 11) | SURR | 2-Methylnaphth... | 0.656 | 0.549 | 0.606 | 0.562 | 0.577 | 0.633 | 0.581 | 0.595 | 6.55 |
| 12) | | 2-Methylnaphth... | 0.810 | 0.696 | 0.765 | 0.703 | 0.734 | 0.802 | 0.731 | 0.749 | 6.03 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.181 | 0.160 | 0.187 | 0.169 | 0.188 | 0.197 | 0.188 | 0.182 | 7.04 |
| 15) | S | 2-Fluorobiphenyl | 2.208 | 1.982 | 2.398 | 2.350 | 2.364 | 2.566 | 2.419 | 2.327 | 7.96 |
| 16) | | Acenaphthylene | 1.882 | 1.756 | 1.938 | 1.794 | 1.834 | 2.074 | 1.935 | 1.888 | 5.66 |
| 17) | | Acenaphthene | 1.257 | 1.159 | 1.281 | 1.171 | 1.199 | 1.339 | 1.243 | 1.236 | 5.17 |
| 18) | | Fluorene | 1.629 | 1.600 | 1.764 | 1.609 | 1.670 | 1.778 | 1.650 | 1.672 | 4.32 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | 0.057 | 0.077 | 0.075 | 0.088 | 0.110 | 0.111 | 0.086 | 24.66 | |
| 21) | | 4-Bromophenyl-... | 0.243 | 0.227 | 0.274 | 0.238 | 0.241 | 0.278 | 0.253 | 0.251 | 7.53 |
| 22) | | Hexachlorobenzene | 0.306 | 0.288 | 0.336 | 0.295 | 0.283 | 0.322 | 0.289 | 0.303 | 6.58 |
| 23) | | Atrazine | 0.193 | 0.191 | 0.213 | 0.192 | 0.200 | 0.216 | 0.200 | 0.201 | 5.08 |
| 24) | | Pentachlorophenol | 0.140 | 0.116 | 0.137 | 0.122 | 0.135 | 0.161 | 0.155 | 0.138 | 11.76 |
| 25) | | Phenanthrene | 1.190 | 1.111 | 1.297 | 1.141 | 1.165 | 1.300 | 1.195 | 1.200 | 6.09 |
| 26) | | Anthracene | 1.026 | 0.971 | 1.147 | 1.033 | 1.075 | 1.215 | 1.112 | 1.083 | 7.60 |
| 27) | SURR | Fluoranthene-d10 | 1.037 | 0.955 | 1.116 | 0.956 | 1.025 | 1.087 | 1.000 | 1.025 | 5.98 |
| 28) | | Fluoranthene | 1.341 | 1.243 | 1.452 | 1.272 | 1.364 | 1.447 | 1.316 | 1.348 | 5.95 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.945 | 2.005 | 2.131 | 1.910 | 1.870 | 1.992 | 1.837 | 1.956 | 5.04 |
| 31) | S | Terphenyl-d14 | 0.962 | 0.965 | 1.028 | 0.924 | 0.915 | 0.987 | 0.926 | 0.958 | 4.23 |
| 32) | | Benzo(a)anthra... | 1.389 | 1.315 | 1.437 | 1.304 | 1.347 | 1.528 | 1.415 | 1.391 | 5.63 |
| 33) | | Chrysene | 1.486 | 1.509 | 1.610 | 1.507 | 1.462 | 1.616 | 1.448 | 1.520 | 4.44 |
| 34) | | Bis(2-ethylhex... | 1.196 | 1.100 | 1.044 | 0.865 | 0.946 | 0.912 | 0.870 | 0.990 | 12.74 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

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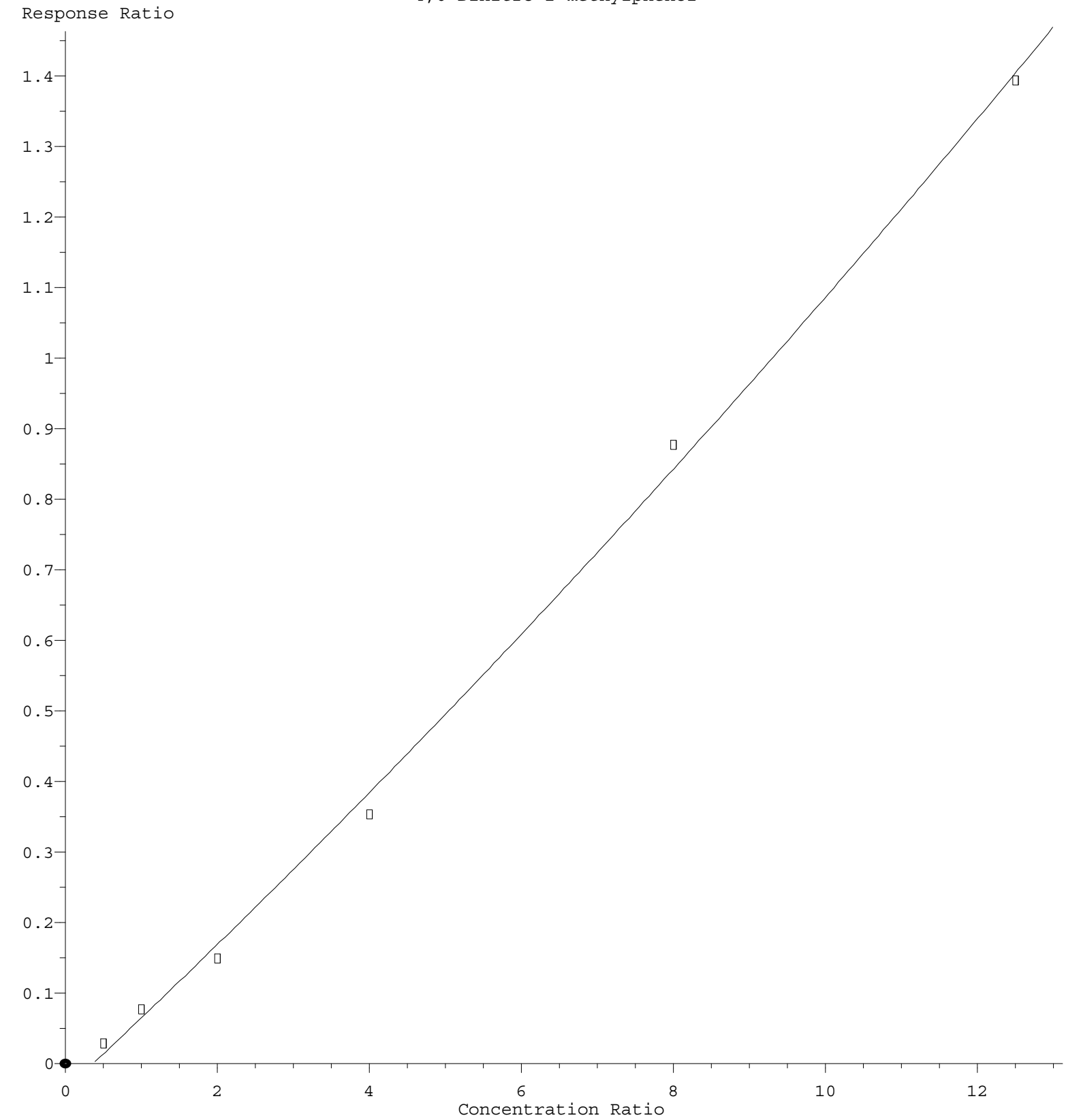
Method File : 8270-SIM-BN031025.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.160 | 1.316 | 1.546 | 1.404 | 1.417 | 1.693 | 1.571 | 1.444 | 12.27 |
| 37) | | Benzo(b)fluora... | 1.311 | 1.360 | 1.547 | 1.402 | 1.477 | 1.595 | 1.498 | 1.456 | 7.04 |
| 38) | | Benzo(k)fluora... | 1.504 | 1.397 | 1.620 | 1.481 | 1.521 | 1.635 | 1.534 | 1.527 | 5.34 |
| 39) | C | Benzo(a)pyrene | 1.090 | 1.152 | 1.303 | 1.195 | 1.223 | 1.350 | 1.268 | 1.226 | 7.29 |
| 40) | | Dibenzo(a,h)an... | 0.893 | 0.981 | 1.163 | 1.126 | 1.102 | 1.351 | 1.252 | 1.124 | 13.76 |
| 41) | | Benzo(g,h,i)pe... | 1.138 | 1.213 | 1.382 | 1.250 | 1.233 | 1.449 | 1.334 | 1.286 | 8.36 |

(#) = Out of Range

4,6-Dinitro-2-methylphenol




R = 1.185e-003 A*A + 1.005e-001 A - 3.674e-002
Coef of Det (r^2) = 0.997987  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA N\Methods\8270-SIM-BN031025.M
Calibration Table Last Updated: Mon Mar 10 16:06:28 2025