Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2378 SAS No.: Q2378 SDG No.: Q2378

Instrument ID: BNA_N Calibration Date(s): 06/19/2025 06/19/2025

Calibration Time(s): 11:00 14:16

LAB FILE ID: RRFAL1 = BN037340.D RRFAL2 = BN037341.D RRFAL3 = BN037342.D
RRFAL4 = BN037343.D RRFAL5 = BN037344.D RRFAL6 = BN037345.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.401 | 0.473 | 0.453 | 0.413 | 0.418 | | 0.431 | 7.0 |
| Benzaldehyde | | 0.783 | 0.805 | 0.782 | 0.577 | 0.342 | 0.658 | 30.3 |
| Hexachloroethane | 0.502 | 0.578 | 0.545 | 0.539 | 0.523 | | 0.537 | 5.2 |
| Nitrobenzene | 0.366 | 0.407 | 0.420 | 0.403 | 0.391 | | 0.397 | 5.0 |
| Isophorone | 0.520 | 0.598 | 0.636 | 0.664 | 0.640 | | 0.612 | 9.2 |
| 2-Nitrophenol | 0.156 | 0.170 | 0.190 | 0.195 | 0.194 | | 0.181 | 9.6 |
| 2,4-Dimethylphenol | 0.328 | 0.364 | 0.373 | 0.366 | 0.361 | | 0.358 | 5.0 |
| Bis(2-Chloroethoxy)methane | 0.314 | 0.339 | 0.386 | 0.404 | 0.394 | | 0.367 | 10.7 |
| 2,4-Dichlorophenol | 0.343 | 0.386 | 0.390 | 0.390 | 0.383 | | 0.379 | 5.3 |
| Naphthalene | 0.942 | 1.003 | 1.036 | 1.040 | 0.999 | | 1.004 | 3.9 |
| 4-Chloroaniline | | 0.360 | 0.390 | 0.400 | 0.388 | 0.394 | 0.387 | 4.1 |
| Hexachlorobutadiene | 0.438 | 0.429 | 0.404 | 0.382 | 0.375 | | 0.406 | 6.8 |
| Phenol | | 1.117 | 1.145 | 1.207 | 1.219 | 1.216 | 1.181 | 4.0 |
| Caprolactam | | 0.064 | 0.077 | 0.083 | 0.084 | 0.091 | 0.079 | 12.9 |
| 4-Chloro-3-methylphenol | 0.258 | 0.282 | 0.316 | 0.320 | 0.311 | | 0.298 | 9.0 |
| 2-Methylnaphthalene | 0.714 | 0.754 | 0.792 | 0.791 | 0.766 | | 0.763 | 4.2 |
| Hexachlorocyclopentadiene | | 0.626 | 0.621 | 0.618 | 0.643 | 0.648 | 0.631 | 2.1 |
| 2,4,6-Trichlorophenol | 0.419 | 0.453 | 0.473 | 0.484 | 0.498 | | 0.465 | 6.6 |
| 2,4,5-Trichlorophenol | 0.510 | 0.506 | 0.529 | 0.533 | 0.539 | | 0.523 | 2.8 |
| 1,1-Biphenyl | 1.281 | 1.412 | 1.481 | 1.518 | 1.459 | | 1.430 | 6.4 |
| 2-Chloronaphthalene | 1.095 | 1.158 | 1.206 | 1.231 | 1.209 | | 1.180 | 4.6 |
| 2-Nitroaniline | 0.180 | 0.226 | 0.275 | 0.286 | 0.276 | | 0.249 | 18.0 |
| Bis(2-Chloroethyl)ether | | 0.856 | 0.910 | 1.000 | 0.998 | 0.949 | 0.943 | 6.5 |
| Dimethylphthalate | 1.344 | 1.386 | 1.493 | 1.523 | 1.417 | | 1.433 | 5.2 |
| 2,6-Dinitrotoluene | 0.245 | 0.261 | 0.297 | 0.314 | 0.314 | | 0.286 | 11.1 |
| Acenaphthylene | 1.595 | 1.641 | 1.782 | 1.857 | 1.815 | | 1.738 | 6.6 |
| 3-Nitroaniline | | 0.186 | 0.222 | 0.237 | 0.229 | 0.214 | 0.218 | 9.0 |
| Acenaphthene | 1.085 | 1.136 | 1.219 | 1.241 | 1.192 | | 1.175 | 5.4 |
| 2,4-Dinitrophenol | | 0.147 | 0.182 | 0.202 | 0.218 | 0.248 | 0.199 | 19.1 |
| 4-Nitrophenol | | 0.226 | 0.247 | 0.220 | 0.209 | 0.217 | 0.224 | 6.5 |
| Dibenzofuran | 1.747 | 1.802 | 1.868 | 1.875 | 1.795 | | 1.818 | 3.0 |
| 2,4-Dinitrotoluene | 0.349 | 0.388 | 0.443 | 0.456 | 0.439 | | 0.415 | 10.9 |
| Diethylphthalate | 1.230 | 1.289 | 1.436 | 1.435 | 1.347 | | 1.347 | 6.7 |
| 2-Chlorophenol | 0.943 | 1.036 | 1.031 | 1.059 | 1.059 | | 1.026 | 4.7 |

All other compounds must meet a minimum RRF of 0.010.

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Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2378 SAS No.: Q2378 SDG No.: Q2378

Instrument ID: BNA_N Calibration Date(s): 06/19/2025 06/19/2025

Calibration Time(s): 11:00 14:16

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RRFAL4 = BN037343.D RRFAL5 = BN037344.D RRFAL6 = BN037345.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Fluorene | 1.334 | 1.432 | 1.535 | 1.510 | 1.458 | | 1.454 | 5.4 |
| 4-Chlorophenyl-phenylether | 0.866 | 0.919 | 0.913 | 0.906 | 0.894 | | 0.900 | 2.3 |
| 4-Nitroaniline | | 0.178 | 0.225 | 0.232 | 0.206 | 0.182 | 0.205 | 11.9 |
| 4,6-Dinitro-2-methylphenol | | 0.129 | 0.133 | 0.147 | 0.159 | 0.167 | 0.147 | 11.1 |
| N-Nitrosodiphenylamine | 0.502 | 0.546 | 0.536 | 0.598 | 0.598 | | 0.556 | 7.5 |
| 1,2,4,5-Tetrachlorobenzene | 0.833 | 0.818 | 0.819 | 0.828 | 0.828 | | 0.825 | 0.8 |
| 4-Bromophenyl-phenylether | 0.237 | 0.242 | 0.237 | 0.255 | 0.259 | | 0.246 | 4.2 |
| Hexachlorobenzene | 0.268 | 0.275 | 0.271 | 0.280 | 0.291 | | 0.277 | 3.3 |
| Atrazine | | 0.236 | 0.245 | 0.249 | 0.261 | 0.264 | 0.251 | 4.7 |
| Pentachlorophenol | | 0.158 | 0.174 | 0.186 | 0.196 | 0.207 | 0.184 | 10.2 |
| 2-Methylphenol | | 0.853 | 0.861 | 0.935 | 0.926 | 0.902 | 0.895 | 4.2 |
| Phenanthrene | 1.008 | 1.072 | 1.088 | 1.129 | 1.141 | | 1.087 | 4.9 |
| Anthracene | 1.017 | 1.089 | 1.107 | 1.147 | 1.150 | | 1.102 | 4.9 |
| Carbazole | | 0.859 | 0.895 | 0.940 | 0.917 | 0.938 | 0.910 | 3.7 |
| Di-n-butylphthalate | 0.807 | 0.934 | 1.033 | 1.074 | 1.058 | | 0.981 | 11.4 |
| Fluoranthene | 1.128 | 1.132 | 1.286 | 1.378 | 1.316 | | 1.248 | 9.0 |
| Pyrene | 1.175 | 1.239 | 1.387 | 1.408 | 1.360 | | 1.314 | 7.7 |
| Butylbenzylphthalate | 0.289 | 0.341 | 0.427 | 0.450 | 0.452 | | 0.392 | 18.7 |
| 3,3-Dichlorobenzidine | | 0.366 | 0.413 | 0.416 | 0.426 | 0.417 | 0.408 | 5.8 |
| 2,2-oxybis(1-Chloropropane) | | 0.713 | 0.773 | 0.862 | 0.836 | 0.781 | 0.793 | 7.3 |
| Benzo(a)anthracene | 1.260 | 1.353 | 1.411 | 1.355 | 1.376 | | 1.351 | 4.2 |
| Chrysene | 1.147 | 1.225 | 1.321 | 1.276 | 1.303 | | 1.255 | 5.6 |
| Bis(2-ethylhexyl)phthalate | 0.427 | 0.518 | 0.637 | 0.670 | 0.681 | | 0.586 | 18.7 |
| Di-n-octyl phthalate | | 0.708 | 0.921 | 1.059 | 1.119 | 1.131 | 0.988 | 17.9 |
| Benzo(b)fluoranthene | 1.065 | 1.126 | 1.265 | 1.331 | 1.398 | | 1.237 | 11.3 |
| Benzo(k)fluoranthene | 1.091 | 1.212 | 1.295 | 1.333 | 1.383 | | 1.263 | 9.1 |
| Benzo(a)pyrene | 0.977 | 1.084 | 1.216 | 1.239 | 1.294 | | 1.162 | 11.1 |
| Indeno(1,2,3-cd)pyrene | 1.324 | 1.537 | 1.654 | 1.593 | 1.675 | | 1.557 | 9.0 |
| Dibenzo(a,h)anthracene | 1.100 | 1.270 | 1.325 | 1.303 | 1.371 | | 1.274 | 8.1 |
| Benzo(g,h,i)perylene | 1.115 | 1.278 | 1.381 | 1.299 | 1.331 | | 1.281 | 7.8 |
| Acetophenone | | 1.534 | 1.531 | 1.583 | 1.550 | 1.517 | 1.543 | 1.6 |
| 2,3,4,6-Tetrachlorophenol | 0.414 | 0.444 | 0.451 | 0.452 | 0.465 | | 0.445 | 4.3 |
| 1,4-Dioxane-d8 | 0.308 | 0.383 | 0.411 | 0.387 | 0.383 | | 0.374 | 10.4 |
| Pyridine-d5 | | 0.943 | 1.021 | 1.005 | 1.025 | 1.008 | 1.000 | 3.3 |
| Phenol-d5 | | 1.063 | 1.131 | 1.183 | 1.202 | 1.186 | 1.153 | 4.9 |

All other compounds must meet a minimum RRF of 0.010.

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| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Bis-(2-Chloroethyl)ether-d8 | | 0.690 | 0.699 | 0.764 | 0.742 | 0.698 | 0.719 | 4.5 |
| 2-Chlorophenol-d4 | 0.928 | 1.016 | 1.031 | 1.082 | 1.056 | | 1.022 | 5.7 |
| 4-Methylphenol-d8 | | 0.878 | 0.916 | 0.989 | 0.967 | 0.970 | 0.944 | 4.8 |
| Nitrobenzene-d5 | 0.123 | 0.142 | 0.153 | 0.156 | 0.158 | | 0.147 | 9.8 |
| 2-Nitrophenol-d4 | 0.155 | 0.167 | 0.181 | 0.194 | 0.197 | | 0.179 | 10.0 |
| 2,4-Dichlorophenol-d3 | 0.355 | 0.378 | 0.396 | 0.405 | 0.405 | | 0.388 | 5.5 |
| 4-Chloroaniline-d4 | | 0.360 | 0.397 | 0.399 | 0.393 | 0.400 | 0.390 | 4.3 |
| 4-Methylphenol | | 0.976 | 0.925 | 0.996 | 0.978 | 0.966 | 0.968 | 2.7 |
| Dimethylphthalate-d6 | 1.392 | 1.429 | 1.493 | 1.575 | 1.488 | | 1.475 | 4.7 |
| Acenaphthylene-d8 | 1.454 | 1.534 | 1.684 | 1.746 | 1.697 | | 1.623 | 7.6 |
| 4-Nitrophenol-d4 | | 0.169 | 0.216 | 0.228 | 0.234 | 0.248 | 0.219 | 13.8 |
| Fluorene-d10 | 1.242 | 1.298 | 1.390 | 1.376 | 1.360 | | 1.333 | 4.6 |
| 4,6-Dinitro-2-methylphenol- | | 0.122 | 0.126 | 0.143 | 0.159 | 0.164 | 0.143 | 13.3 |
| Anthracene-d10 | 0.948 | 0.969 | 0.971 | 1.039 | 1.014 | | 0.988 | 3.7 |
| Pyrene-d10 | 0.974 | 0.991 | 1.144 | 1.165 | 1.166 | | 1.088 | 8.9 |
| Benzo(a)pyrene-d12 | 0.850 | 0.972 | 1.085 | 1.116 | 1.173 | | 1.039 | 12.4 |
| N-Nitroso-di-n-propylamine | 0.641 | 0.747 | 0.725 | 0.785 | 0.767 | | 0.733 | 7.6 |

All other compounds must meet a minimum RRF of 0.010.