Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1060 SAS No.: Q1060 SDG No.: Q1060

Instrument ID: BNA_M Calibration Date/Time: 01/14/2025 09:26

Lab File ID: BM049343.D Init. Calib. Date(s): 01/13/2025 01/13/2025

EPA Sample No.: SSTD020065 Init. Calib. Time(s): 13:05 16:20

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFCAL | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.530 | 0.592 | 0.010 | 11.8 | 40.0 |
| Benzaldehyde | 0.905 | 1.241 | 0.010 | 37.1 | 40.0 |
| Phenol | 1.746 | 1.908 | 0.080 | 9.3 | 20.0 |
| Bis(2-Chloroethyl)ether | 1.421 | 1.583 | 0.100 | 11.4 | 20.0 |
| 2-Chlorophenol | 1.335 | 1.500 | 0.200 | 12.3 | 20.0 |
| 2-Methylphenol | 1.275 | 1.363 | 0.010 | 6.9 | 20.0 |
| 2,2-oxybis(1-Chloropropane) | 2.130 | 2.459 | 0.010 | 15.4 | 40.0 |
| Acetophenone | 2.126 | 2.415 | 0.060 | 13.6 | 20.0 |
| 4-Methylphenol | 1.397 | 1.520 | 0.010 | 8.8 | 20.0 |
| N-Nitroso-di-n-propylamine | 1.148 | 1.312 | 0.050 | 14.2 | 30.0 |
| Hexachloroethane | 0.574 | 0.658 | 0.100 | 14.8 | 20.0 |
| Nitrobenzene | 0.395 | 0.443 | 0.050 | 12.1 | 25.0 |
| Isophorone | 0.768 | 0.835 | 0.050 | 8.8 | 25.0 |
| 2-Nitrophenol | 0.187 | 0.208 | 0.050 | 11.2 | 25.0 |
| 2,4-Dimethylphenol | 0.351 | 0.390 | 0.050 | 11.3 | 25.0 |
| Bis(2-Chloroethoxy)methane | 0.472 | 0.514 | 0.050 | 9.0 | 20.0 |
| 2,4-Dichlorophenol | 0.347 | 0.388 | 0.060 | 12.0 | 20.0 |
| Naphthalene | 1.061 | 1.178 | 0.200 | 11.0 | 20.0 |
| 4-Chloroaniline | 0.437 | 0.475 | 0.010 | 8.8 | 40.0 |
| Hexachlorobutadiene | 0.247 | 0.280 | 0.040 | 13.2 | 30.0 |
| Caprolactam | 0.103 | 0.111 | 0.010 | 7.5 | 40.0 |
| 4-Chloro-3-methylphenol | 0.324 | 0.356 | 0.040 | 9.9 | 25.0 |
| 2-Methylnaphthalene | 0.760 | 0.847 | 0.100 | 11.5 | 20.0 |
| Hexachlorocyclopentadiene | 0.415 | 0.417 | 0.010 | 0.4 | 40.0 |
| 2,4,6-Trichlorophenol | 0.426 | 0.475 | 0.090 | 11.6 | 25.0 |
| 2,4,5-Trichlorophenol | 0.456 | 0.504 | 0.100 | 10.5 | 25.0 |
| 1,1-Biphenyl | 1.464 | 1.624 | 0.200 | 10.9 | 20.0 |
| 2-Chloronaphthalene | 1.171 | 1.319 | 0.300 | 12.6 | 20.0 |
| 2-Nitroaniline | 0.309 | 0.349 | 0.050 | 12.8 | 40.0 |
| Dimethylphthalate | 1.473 | 1.631 | 0.300 | 10.7 | 20.0 |
| 2,6-Dinitrotoluene | 0.275 | 0.307 | 0.080 | 11.9 | 30.0 |
| Acenaphthylene | 1.742 | 1.947 | 0.400 | 11.8 | 20.0 |
| 3-Nitroaniline | 0.270 | 0.301 | 0.010 | 11.6 | 40.0 |
| Acenaphthene | 1.245 | 1.381 | 0.200 | 11.0 | 20.0 |
| 2,4-Dinitrophenol | 0.172 | 0.154 | 0.010 | -10.4 | 40.0 |
| 4-Nitrophenol | 0.182 | 0.191 | 0.010 | 5.2 | 40.0 |
| Dibenzofuran | 1.768 | 1.991 | 0.300 | 12.7 | 20.0 |
| 2,4-Dinitrotoluene | 0.408 | 0.456 | 0.070 | 11.9 | 30.0 |
| Diethylphthalate | 1.435 | 1.596 | 0.300 | 11.2 | 20.0 |

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Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1060 SAS No.: Q1060 SDG No.: Q1060

Instrument ID: BNA_M Calibration Date/Time: 01/14/2025 09:26

Lab File ID: BM049343.D Init. Calib. Date(s): 01/13/2025 01/13/2025

EPA Sample No.: SSTD020065 Init. Calib. Time(s): 13:05 16:20

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFCAL | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Fluorene | 1.444 | 1.673 | 0.200 | 15.8 | 20.0 |
| 4-Chlorophenyl-phenylether | 0.787 | 0.900 | 0.100 | 14.3 | 20.0 |
| 4-Nitroaniline | 0.243 | 0.276 | 0.010 | 13.9 | 40.0 |
| 4,6-Dinitro-2-methylphenol | 0.139 | 0.142 | 0.010 | 1.9 | 40.0 |
| N-Nitrosodiphenylamine | 0.593 | 0.657 | 0.050 | 10.7 | 20.0 |
| 1,2,4,5-Tetrachlorobenzene | 0.692 | 0.768 | 0.100 | 10.9 | 20.0 |
| 4-Bromophenyl-phenylether | 0.227 | 0.245 | 0.070 | 7.6 | 20.0 |
| Hexachlorobenzene | 0.264 | 0.284 | 0.050 | 7.2 | 25.0 |
| Atrazine | 0.243 | 0.262 | 0.010 | 8.1 | 25.0 |
| Pentachlorophenol | 0.175 | 0.173 | 0.010 | -1.2 | 40.0 |
| Phenanthrene | 1.112 | 1.244 | 0.200 | 11.9 | 20.0 |
| Anthracene | 1.116 | 1.256 | 0.200 | 12.5 | 20.0 |
| Carbazole | 0.990 | 1.087 | 0.050 | 9.8 | 40.0 |
| Di-n-butylphthalate | 1.213 | 1.354 | 0.500 | 11.6 | 25.0 |
| Fluoranthene | 1.399 | 1.481 | 0.400 | 5.9 | 25.0 |
| Pyrene | 1.489 | 1.600 | 0.400 | 7.4 | 25.0 |
| Butylbenzylphthalate | 0.527 | 0.569 | 0.100 | 7.9 | 40.0 |
| 3,3-Dichlorobenzidine | 0.375 | 0.415 | 0.010 | 10.9 | 40.0 |
| Benzo(a)anthracene | 1.394 | 1.560 | 0.300 | 11.9 | 30.0 |
| Chrysene | 1.272 | 1.430 | 0.200 | 12.4 | 30.0 |
| Bis(2-ethylhexyl)phthalate | 0.784 | 0.874 | 0.200 | 11.4 | 40.0 |
| Di-n-octyl phthalate | 1.457 | 1.489 | 0.010 | 2.2 | 40.0 |
| Benzo(b)fluoranthene | 1.339 | 1.511 | 0.200 | 12.9 | 25.0 |
| Benzo(k)fluoranthene | 1.335 | 1.547 | 0.200 | 15.9 | 25.0 |
| Benzo(a)pyrene | 1.209 | 1.367 | 0.200 | 13.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.387 | 1.524 | 0.200 | 9.8 | 25.0 |
| Dibenzo(a,h)anthracene | 1.130 | 1.226 | 0.200 | 8.5 | 30.0 |
| Benzo(g,h,i)perylene | 1.035 | 1.140 | 0.200 | 10.1 | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 0.386 | 0.431 | 0.040 | 11.8 | 20.0 |
| 1,4-Dioxane-d8 | 0.483 | 0.561 | 0.010 | 16.0 | 25.0 |
| Pyridine-d5 | 1.539 | 1.694 | 0.010 | 10.1 | 40.0 |
| Phenol-d5 | 1.679 | 1.840 | 0.010 | 9.6 | 25.0 |
| Bis-(2-Chloroethyl)ether-d8 | 1.118 | 1.269 | 0.050 | 13.5 | 25.0 |
| 2-Chlorophenol-d4 | 1.284 | 1.455 | 0.200 | 13.3 | 20.0 |
| 4-Methylphenol-d8 | 1.302 | 1.413 | 0.010 | 8.6 | 20.0 |
| Nitrobenzene-d5 | 0.153 | 0.170 | 0.050 | 11.6 | 20.0 |
| 2-Nitrophenol-d4 | 0.170 | 0.187 | 0.050 | 9.5 | 30.0 |
| 2,4-Dichlorophenol-d3 | 0.348 | 0.390 | 0.060 | 12.1 | 20.0 |
| 4-Chloroaniline-d4 | 0.458 | 0.489 | 0.010 | 6.8 | 40.0 |

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Lab Code: CHEM Case No.: Q1060 SAS No.: Q1060 SDG No.: Q1060

Instrument ID: BNA_M Calibration Date/Time: 01/14/2025 09:26

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EPA Sample No.: SSTD020065 Init. Calib. Time(s): 13:05 16:20

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND | RRF | RRFCAL | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dimethylphthalate-d6 | 1.489 | 1.652 | 0.300 | 11.0 | 20.0 |
| Acenaphthylene-d8 | 1.699 | 1.922 | 0.400 | 13.1 | 20.0 |
| 4-Nitrophenol-d4 | 0.247 | 0.256 | 0.010 | 3.8 | 40.0 |
| Fluorene-d10 | 1.286 | 1.466 | 0.100 | 14.0 | 20.0 |
| 4,6-Dinitro-2-methylphenol-d2 | 0.127 | 0.125 | 0.010 | -1.9 | 40.0 |
| Anthracene-d10 | 0.989 | 1.113 | 0.300 | 12.5 | 20.0 |
| Pyrene-d10 | 1.217 | 1.294 | 0.300 | 6.3 | 25.0 |
| Benzo(a)pyrene-d12 | 1.074 | 1.209 | 0.010 | 12.6 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.