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.: P5288 SAS No.: P5288 SDG No.: P5288

Instrument ID: BNA_G Calibration Date/Time: 12/19/2024 04:11

Lab File ID: BG063745.D Init. Calib. Date(s): 12/11/2024 12/11/2024

EPA Sample No.: SSTD020573 Init. Calib. Time(s): 13:23 17:52

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

| COMPOUND | RRF | RRFCAL | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.604 | 0.568 | 0.010 | -6.0 | 40.0 |
| Benzaldehyde | 1.130 | 1.293 | 0.010 | 14.4 | 40.0 |
| Phenol | 1.963 | 1.934 | 0.080 | -1.5 | 20.0 |
| Bis(2-Chloroethyl)ether | 1.502 | 1.447 | 0.100 | -3.7 | 20.0 |
| 2-Chlorophenol | 1.207 | 1.227 | 0.200 | 1.7 | 20.0 |
| 2-Methylphenol | 1.419 | 1.355 | 0.010 | -4.5 | 20.0 |
| 2,2-oxybis(1-Chloropropane) | 2.230 | 2.126 | 0.010 | -4.7 | 40.0 |
| Acetophenone | 2.426 | 2.378 | 0.060 | -2.0 | 20.0 |
| 4-Methylphenol | 1.553 | 1.528 | 0.010 | -1.6 | 20.0 |
| N-Nitroso-di-n-propylamine | 1.447 | 1.369 | 0.050 | -5.4 | 30.0 |
| Hexachloroethane | 0.593 | 0.545 | 0.100 | -8.0 | 20.0 |
| Nitrobenzene | 0.477 | 0.465 | 0.050 | -2.5 | 25.0 |
| Isophorone | 0.901 | 0.865 | 0.050 | -4.0 | 25.0 |
| 2-Nitrophenol | 0.165 | 0.177 | 0.050 | 7.9 | 25.0 |
| 2,4-Dimethylphenol | 0.373 | 0.384 | 0.050 | 2.9 | 25.0 |
| Bis(2-Chloroethoxy)methane | 0.487 | 0.488 | 0.050 | 0.1 | 20.0 |
| 2,4-Dichlorophenol | 0.308 | 0.330 | 0.060 | 7.2 | 20.0 |
| Naphthalene | 1.000 | 1.031 | 0.200 | 3.1 | 20.0 |
| 4-Chloroaniline | 0.374 | 0.412 | 0.010 | 10.1 | 40.0 |
| Hexachlorobutadiene | 0.250 | 0.231 | 0.040 | -7.6 | 30.0 |
| Caprolactam | 0.106 | 0.131 | 0.010 | 23.5 | 40.0 |
| 4-Chloro-3-methylphenol | 0.362 | 0.375 | 0.040 | 3.6 | 25.0 |
| 2-Methylnaphthalene | 0.719 | 0.751 | 0.100 | 4.6 | 20.0 |
| Hexachlorocyclopentadiene | 0.253 | 0.227 | 0.010 | -10.2 | 40.0 |
| 2,4,6-Trichlorophenol | 0.362 | 0.370 | 0.090 | 2.1 | 25.0 |
| 2,4,5-Trichlorophenol | 0.378 | 0.389 | 0.100 | 2.9 | 25.0 |
| 1,1-Biphenyl | 1.319 | 1.347 | 0.200 | 2.1 | 20.0 |
| 2-Chloronaphthalene | 1.059 | 1.084 | 0.300 | 2.3 | 20.0 |
| 2-Nitroaniline | 0.355 | 0.391 | 0.050 | 10.2 | 40.0 |
| Dimethylphthalate | 1.364 | 1.400 | 0.300 | 2.6 | 20.0 |
| 2,6-Dinitrotoluene | 0.253 | 0.279 | 0.080 | 10.2 | 30.0 |
| Acenaphthylene | 1.663 | 1.761 | 0.400 | 5.9 | 20.0 |
| 3-Nitroaniline | 0.234 | 0.301 | 0.010 | 28.7 | 40.0 |
| Acenaphthene | 1.179 | 1.236 | 0.200 | 4.8 | 20.0 |
| 2,4-Dinitrophenol | 0.129 | 0.123 | 0.010 | -5.3 | 40.0 |
| 4-Nitrophenol | 0.200 | 0.191 | 0.010 | -4.8 | 40.0 |
| Dibenzofuran | 1.662 | 1.808 | 0.300 | 8.8 | 20.0 |
| 2,4-Dinitrotoluene | 0.376 | 0.441 | 0.070 | 17.3 | 30.0 |
| Diethylphthalate | 1.319 | 1.446 | 0.300 | 9.7 | 20.0 |

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EPA Sample No.: SSTD020573 Init. Calib. Time(s): 13:23 17:52

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

| COMPOUND | RRF | RRFCAL | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Fluorene | 1.327 | 1.483 | 0.200 | 11.8 | 20.0 |
| 4-Chlorophenyl-phenylether | 0.739 | 0.775 | 0.100 | 4.8 | 20.0 |
| 4-Nitroaniline | 0.234 | 0.318 | 0.010 | 35.7 | 40.0 |
| 4,6-Dinitro-2-methylphenol | 0.107 | 0.105 | 0.010 | -1.8 | 40.0 |
| N-Nitrosodiphenylamine | 0.484 | 0.512 | 0.050 | 5.6 | 20.0 |
| 1,2,4,5-Tetrachlorobenzene | 0.640 | 0.611 | 0.100 | -4.5 | 20.0 |
| 4-Bromophenyl-phenylether | 0.204 | 0.211 | 0.070 | 3.3 | 20.0 |
| Hexachlorobenzene | 0.228 | 0.240 | 0.050 | 5.1 | 25.0 |
| Atrazine | 0.205 | 0.232 | 0.010 | 13.1 | 25.0 |
| Pentachlorophenol | 0.096 | 0.080 | 0.010 | -17.2 | 40.0 |
| Phenanthrene | 0.964 | 1.082 | 0.200 | 12.2 | 20.0 |
| Anthracene | 0.975 | 1.119 | 0.200 | 14.8 | 20.0 |
| Carbazole | 0.790 | 0.979 | 0.050 | 24.0 | 40.0 |
| Di-n-butylphthalate | 0.954 | 1.143 | 0.500 | 19.8 | 25.0 |
| Fluoranthene | 1.183 | 1.281 | 0.400 | 8.3 | 25.0 |
| Pyrene | 1.259 | 1.341 | 0.400 | 6.6 | 25.0 |
| Butylbenzylphthalate | 0.386 | 0.466 | 0.100 | 20.7 | 40.0 |
| 3,3-Dichlorobenzidine | 0.361 | 0.415 | 0.010 | 15.0 | 40.0 |
| Benzo(a)anthracene | 1.253 | 1.282 | 0.300 | 2.3 | 30.0 |
| Chrysene | 1.195 | 1.229 | 0.200 | 2.9 | 30.0 |
| Bis(2-ethylhexyl)phthalate | 0.562 | 0.676 | 0.200 | 20.3 | 40.0 |
| Di-n-octyl phthalate | 0.863 | 1.120 | 0.010 | 29.8 | 40.0 |
| Benzo(b)fluoranthene | 1.137 | 1.209 | 0.200 | 6.4 | 25.0 |
| Benzo(k)fluoranthene | 1.134 | 1.188 | 0.200 | 4.8 | 25.0 |
| Benzo(a)pyrene | 1.067 | 1.120 | 0.200 | 5.0 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.303 | 1.394 | 0.200 | 7.0 | 25.0 |
| Dibenzo(a,h)anthracene | 1.043 | 1.138 | 0.200 | 9.1 | 30.0 |
| Benzo(g,h,i)perylene | 1.034 | 1.079 | 0.200 | 4.4 | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 0.326 | 0.351 | 0.040 | 7.9 | 20.0 |
| 1,4-Dioxane-d8 | 0.510 | 0.482 | 0.010 | -5.5 | 25.0 |
| Pyridine-d5 | 1.610 | 1.541 | 0.010 | -4.3 | 40.0 |
| Phenol-d5 | 1.842 | 1.749 | 0.010 | -5.0 | 25.0 |
| Bis-(2-Chloroethyl)ether-d8 | 1.272 | 1.185 | 0.050 | -6.8 | 25.0 |
| 2-Chlorophenol-d4 | 1.193 | 1.167 | 0.200 | -2.1 | 20.0 |
| 4-Methylphenol-d8 | 1.430 | 1.434 | 0.010 | 0.3 | 20.0 |
| Nitrobenzene-d5 | 0.143 | 0.149 | 0.050 | 4.5 | 20.0 |
| 2-Nitrophenol-d4 | 0.160 | 0.169 | 0.050 | 5.9 | 30.0 |
| 2,4-Dichlorophenol-d3 | 0.310 | 0.329 | 0.060 | 6.2 | 20.0 |
| 4-Chloroaniline-d4 | 0.394 | 0.414 | 0.010 | 5.2 | 40.0 |

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|---|---|---|---|---|---|
| Dimethylphthalate-d6 | 1.361 | 1.397 | 0.300 | 2.7 | 20.0 |
| Acenaphthylene-d8 | 1.551 | 1.630 | 0.400 | 5.1 | 20.0 |
| 4-Nitrophenol-d4 | 0.193 | 0.209 | 0.010 | 8.3 | 40.0 |
| Fluorene-d10 | 1.203 | 1.340 | 0.100 | 11.3 | 20.0 |
| 4,6-Dinitro-2-methylphenol-d2 | 0.104 | 0.100 | 0.010 | -3.3 | 40.0 |
| Anthracene-d10 | 0.860 | 0.942 | 0.300 | 9.5 | 20.0 |
| Pyrene-d10 | 1.041 | 1.092 | 0.300 | 4.9 | 25.0 |
| Benzo(a)pyrene-d12 | 0.939 | 0.991 | 0.010 | 5.5 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.