

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/28/2025 10:03

Lab File ID: BF141804.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.228		-1.9	
Benzaldehyde	0.948	0.794		-16.2	
Phenol-d6	1.630	1.583		-2.9	
Phenol	1.742	1.704		-2.2	20.0
bis(2-Chloroethyl)ether	1.328	1.308		-1.5	
2-Chlorophenol	1.355	1.327		-2.1	
2-Methylphenol	1.118	1.109		-0.8	
2,2-oxybis(1-Chloropropane)	2.016	1.998		-0.9	
Acetophenone	0.487	0.479		-1.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	1.048	0.050	-2.2	
Nitrobenzene-d5	0.313	0.354		13.1	
Hexachloroethane	0.547	0.547		0.0	
Nitrobenzene	0.335	0.373		11.3	
Isophorone	0.672	0.666		-0.9	
2-Nitrophenol	0.127	0.158		23.6	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.424		-1.2	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.373		-1.1	
Hexachlorobutadiene	0.194	0.196		1.0	20.0
Caprolactam	0.088	0.090		2.3	
4-Chloro-3-methylphenol	0.317	0.318		0.3	20.0
2-Methylnaphthalene	0.674	0.665		-1.3	
Hexachlorocyclopentadiene	0.241	0.248	0.050	2.9	
2,4,6-Trichlorophenol	0.373	0.408		9.4	20.0
2-Fluorobiphenyl	1.247	1.225		-1.8	
2,4,5-Trichlorophenol	0.369	0.371		0.5	
1,1-Biphenyl	1.522	1.527		0.3	
2-Chloronaphthalene	1.124	1.135		1.0	
2-Nitroaniline	0.260	0.329		26.5	
Dimethylphthalate	1.339	1.338		-0.1	
Acenaphthylene	1.685	1.683		-0.1	
2,6-Dinitrotoluene	0.226	0.277		22.6	
3-Nitroaniline	0.241	0.291		20.7	
Acenaphthene	1.137	1.146		0.8	20.0
2,4-Dinitrophenol	0.089	0.103	0.050	15.7	
4-Nitrophenol	0.198	0.230	0.050	16.2	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.631		-1.4	
2,4-Dinitrotoluene	0.269	0.346		28.6	
Diethylphthalate	1.343	1.353		0.7	
4-Chlorophenyl-phenylether	0.621	0.610		-1.8	
Fluorene	1.239	1.209		-2.4	
4-Nitroaniline	0.229	0.276		20.5	
4,6-Dinitro-2-methylphenol	0.081	0.100		23.5	
n-Nitrosodiphenylamine	0.657	0.658		0.2	20.0
2,4,6-Tribromophenol	0.188	0.196		4.3	
4-Bromophenyl-phenylether	0.234	0.239		2.1	
Hexachlorobenzene	0.247	0.249		0.8	
Atrazine	0.181	0.185		2.2	
Pentachlorophenol	0.156	0.165		5.8	20.0
Phenanthrene	1.070	1.063		-0.7	
Anthracene	1.072	1.076		0.4	
Carbazole	0.947	0.948		0.1	
Di-n-butylphthalate	1.200	1.214		1.2	
Fluoranthene	1.096	1.093		-0.3	20.0
Pyrene	1.732	1.728		-0.2	
Terphenyl-d14	1.236	1.213		-1.9	
Butylbenzylphthalate	0.629	0.649		3.2	
3,3-Dichlorobenzidine	0.379	0.361		-4.7	
Benzo (a) anthracene	1.321	1.260		-4.6	
Chrysene	1.218	1.181		-3.0	
Bis(2-ethylhexyl)phthalate	0.783	0.819		4.6	
Di-n-octyl phthalate	1.173	1.202		2.5	20.0
Benzo (b) fluoranthene	1.362	1.342		-1.5	
Benzo (k) fluoranthene	1.158	1.176		1.6	
Benzo (a) pyrene	1.093	1.101		0.7	20.0
Indeno (1,2,3-cd) pyrene	1.274	1.305		2.4	
Dibenzo (a,h) anthracene	1.040	1.074		3.3	
Benzo (g,h,i) perylene	1.065	1.071		0.6	
1,2,4,5-Tetrachlorobenzene	0.578	0.578		0.0	
1,4-Dioxane	0.568	0.568		0.0	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.337		5.0	

All other compounds must meet a minimum RRF of 0.010.