

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: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo (a) anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis(2-ethylhexyl)phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo (b) fluoranthene	1.343	1.304		-2.9	
Benzo (k) fluoranthene	1.147	1.152		0.4	
Benzo (a) pyrene	1.087	1.110		2.1	20.0
Indeno (1,2,3-cd) pyrene	1.236	1.406		13.8	
Dibenzo (a,h) anthracene	1.001	1.141		14.0	
Benzo (g,h,i) perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.