

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: 02/25/2025 10:34

Lab File ID: BF141755.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	1.379		8.1	
Benzaldehyde	0.857	0.938		9.5	
Phenol-d6	1.612	1.672		3.7	
Phenol	1.678	1.745		4.0	20.0
bis(2-Chloroethyl)ether	1.261	1.311		4.0	
2-Chlorophenol	1.378	1.463		6.2	
2-Methylphenol	1.079	1.115		3.3	
2,2-oxybis(1-Chloropropane)	2.158	2.073		-3.9	
Acetophenone	0.498	0.506		1.6	
3+4-Methylphenols	1.371	1.442		5.2	
n-Nitroso-di-n-propylamine	0.964	0.992	0.050	2.9	
Nitrobenzene-d5	0.383	0.384		0.3	
Hexachloroethane	0.550	0.581		5.6	
Nitrobenzene	0.374	0.377		0.8	
Isophorone	0.611	0.618		1.1	
2-Nitrophenol	0.186	0.199		7.0	20.0
2,4-Dimethylphenol	0.217	0.228		5.1	
bis(2-Chloroethoxy)methane	0.392	0.410		4.6	
2,4-Dichlorophenol	0.294	0.307		4.4	20.0
Naphthalene	1.041	1.073		3.1	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
Caprolactam	0.089	0.086		-3.4	
4-Chloro-3-methylphenol	0.325	0.325		0.0	20.0
2-Methylnaphthalene	0.677	0.700		3.4	
Hexachlorocyclopentadiene	0.192	0.198	0.050	3.1	
2,4,6-Trichlorophenol	0.374	0.383		2.4	20.0
2-Fluorobiphenyl	1.298	1.344		3.5	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.613		4.0	
2-Chloronaphthalene	1.147	1.203		4.9	
2-Nitroaniline	0.385	0.362		-6.0	
Dimethylphthalate	1.358	1.384		1.9	
Acenaphthylene	1.705	1.736		1.8	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.319	0.305		-4.4	
Acenaphthene	1.147	1.127		-1.7	20.0
2,4-Dinitrophenol	0.176	0.155	0.050	-11.9	
4-Nitrophenol	0.237	0.207	0.050	-12.7	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.672		-0.7	
2,4-Dinitrotoluene	0.395	0.376		-4.8	
Diethylphthalate	1.336	1.323		-1.0	
4-Chlorophenyl-phenylether	0.626	0.644		2.9	
Fluorene	1.301	1.287		-1.1	
4-Nitroaniline	0.324	0.286		-11.7	
4,6-Dinitro-2-methylphenol	0.139	0.136		-2.2	
n-Nitrosodiphenylamine	0.640	0.696		8.8	20.0
2,4,6-Tribromophenol	0.201	0.191		-5.0	
4-Bromophenyl-phenylether	0.224	0.247		10.3	
Hexachlorobenzene	0.230	0.252		9.6	
Atrazine	0.192	0.172		-10.4	
Pentachlorophenol	0.147	0.146		-0.7	20.0
Phenanthrene	1.101	1.126		2.3	
Anthracene	1.107	1.148		3.7	
Carbazole	0.996	0.955		-4.1	
Di-n-butylphthalate	1.150	1.169		1.7	
Fluoranthene	1.167	1.071		-8.2	20.0
Pyrene	1.703	1.941		14.0	
Terphenyl-d14	1.185	1.341		13.2	
Butylbenzylphthalate	0.590	0.653		10.7	
3,3-Dichlorobenzidine	0.381	0.421		10.5	
Benzo (a) anthracene	1.329	1.394		4.9	
Chrysene	1.228	1.271		3.5	
Bis(2-ethylhexyl)phthalate	0.665	0.826		24.2	
Di-n-octyl phthalate	0.949	1.341		41.3	20.0
Benzo (b) fluoranthene	1.343	1.171		-12.8	
Benzo (k) fluoranthene	1.147	0.994		-13.3	
Benzo (a) pyrene	1.087	1.099		1.1	20.0
Indeno (1,2,3-cd) pyrene	1.236	1.495		21.0	
Dibenzo (a,h) anthracene	1.001	1.227		22.6	
Benzo (g,h,i) perylene	1.048	1.273		21.5	
1,2,4,5-Tetrachlorobenzene	0.579	0.620		7.1	
1,4-Dioxane	0.513	0.521		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.331		-5.2	

All other compounds must meet a minimum RRF of 0.010.