

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02  
 Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664  
 Instrument ID: BNA\_M Calibration Date/Time: 04/02/2025 10:46  
 Lab File ID: BM049784.D Init. Calib. Date(s): 03/13/2025 03/13/2025  
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:37  
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.185	1.154		-2.6	
Benzaldehyde	0.735	0.749		1.9	
Phenol-d6	1.488	1.586		6.6	
Phenol	1.442	1.501		4.1	20.0
bis(2-Chloroethyl)ether	1.168	1.208		3.4	
2-Chlorophenol	1.174	1.174		0.0	
2-Methylphenol	0.856	0.918		7.2	
2,2-oxybis(1-Chloropropane)	1.373	1.462		6.5	
Acetophenone	0.516	0.515		-0.2	
3+4-Methylphenols	1.148	1.267		10.4	
n-Nitroso-di-n-propylamine	0.863	1.016	0.050	17.7	
Nitrobenzene-d5	0.390	0.394		1.0	
Hexachloroethane	0.508	0.493		-3.0	
Nitrobenzene	0.367	0.365		-0.5	
Isophorone	0.598	0.638		6.7	
2-Nitrophenol	0.156	0.164		5.1	20.0
2,4-Dimethylphenol	0.199	0.202		1.5	
bis(2-Chloroethoxy)methane	0.421	0.434		3.1	
2,4-Dichlorophenol	0.324	0.332		2.5	20.0
Naphthalene	1.028	1.006		-2.1	
4-Chloroaniline	0.351	0.359		2.3	
Hexachlorobutadiene	0.250	0.240		-4.0	20.0
Caprolactam	0.075	0.084		12.0	
4-Chloro-3-methylphenol	0.278	0.303		9.0	20.0
2-Methylnaphthalene	0.719	0.745		3.6	
Hexachlorocyclopentadiene	0.272	0.267	0.050	-1.8	
2,4,6-Trichlorophenol	0.411	0.423		2.9	20.0
2-Fluorobiphenyl	1.597	1.626		1.8	
2,4,5-Trichlorophenol	0.449	0.460		2.5	
1,1-Biphenyl	1.541	1.512		-1.9	
2-Chloronaphthalene	1.200	1.150		-4.2	
2-Nitroaniline	0.269	0.287		6.7	
Dimethylphthalate	1.377	1.374		-0.2	
Acenaphthylene	1.677	1.661		-1.0	
2,6-Dinitrotoluene	0.276	0.284		2.9	
3-Nitroaniline	0.263	0.261		-0.8	
Acenaphthene	1.100	1.102		0.2	20.0
2,4-Dinitrophenol	0.134	0.129	0.050	-3.7	
4-Nitrophenol	0.229	0.212	0.050	-7.4	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.833	1.806		-1.5	
2,4-Dinitrotoluene	0.355	0.368		3.7	
Diethylphthalate	1.297	1.318		1.6	
4-Chlorophenyl-phenylether	0.815	0.865		6.1	
Fluorene	1.492	1.552		4.0	
4-Nitroaniline	0.274	0.273		-0.4	
4,6-Dinitro-2-methylphenol	0.102	0.104		2.0	
n-Nitrosodiphenylamine	0.606	0.621		2.5	20.0
2,4,6-Tribromophenol	0.234	0.259		10.7	
4-Bromophenyl-phenylether	0.231	0.240		3.9	
Hexachlorobenzene	0.260	0.263		1.2	
Atrazine	0.134	0.144		7.5	
Pentachlorophenol	0.163	0.165		1.2	20.0
Phenanthrene	1.111	1.101		-0.9	
Anthracene	1.076	1.080		0.4	
Carbazole	0.974	0.948		-2.7	
Di-n-butylphthalate	1.068	1.099		2.9	
Fluoranthene	1.279	1.224		-4.3	20.0
Pyrene	1.397	1.607		15.0	
Terphenyl-d14	1.187	1.487		25.3	
Butylbenzylphthalate	0.434	0.479		10.4	
3,3-Dichlorobenzidine	0.435	0.400		-8.0	
Benzo (a) anthracene	1.336	1.330		-0.4	
Chrysene	1.266	1.236		-2.4	
Bis (2-ethylhexyl) phthalate	0.676	0.725		7.2	
Di-n-octyl phthalate	1.050	0.946		-9.9	20.0
Benzo (b) fluoranthene	1.347	1.383		2.7	
Benzo (k) fluoranthene	1.326	1.339		1.1	
Benzo (a) pyrene	1.131	1.118		-1.1	20.0
Indeno (1,2,3-cd) pyrene	1.440	1.331		-7.6	
Dibenzo (a,h) anthracene	1.199	1.115		-7.0	
Benzo (g,h,i) perylene	1.208	1.101		-8.9	
1,2,4,5-Tetrachlorobenzene	0.735	0.722		-1.8	
1,4-Dioxane	0.513	0.459		-10.5	20.0
2,3,4,6-Tetrachlorophenol	0.376	0.391		4.0	

All other compounds must meet a minimum RRF of 0.010.