

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_P Calibration Date/Time: 02/27/2025 10:42

Lab File ID: BP024116.D Init. Calib. Date(s): 02/17/2025 02/17/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:28 16:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.282	1.418		10.6	
Benzaldehyde	0.752	0.753		0.1	
Phenol-d6	1.647	1.800		9.3	
Phenol	1.657	1.793		8.2	20.0
bis(2-Chloroethyl)ether	1.305	1.400		7.3	
2-Chlorophenol	1.357	1.452		7.0	
2-Methylphenol	1.010	1.094		8.3	
2,2-oxybis(1-Chloropropane)	1.267	1.438		13.5	
Acetophenone	0.514	0.542		5.4	
3+4-Methylphenols	1.373	1.476		7.5	
n-Nitroso-di-n-propylamine	0.886	0.980	0.050	10.6	
Nitrobenzene-d5	0.358	0.395		10.3	
Hexachloroethane	0.543	0.576		6.1	
Nitrobenzene	0.353	0.388		9.9	
Isophorone	0.586	0.623		6.3	
2-Nitrophenol	0.163	0.172		5.5	20.0
2,4-Dimethylphenol	0.213	0.227		6.6	
bis(2-Chloroethoxy)methane	0.425	0.451		6.1	
2,4-Dichlorophenol	0.291	0.308		5.8	20.0
Naphthalene	1.075	1.135		5.6	
4-Chloroaniline	0.379	0.400		5.5	
Hexachlorobutadiene	0.193	0.195		1.0	20.0
Caprolactam	0.088	0.089		1.1	
4-Chloro-3-methylphenol	0.299	0.318		6.4	20.0
2-Methylnaphthalene	0.715	0.735		2.8	
Hexachlorocyclopentadiene	0.229	0.239	0.050	4.4	
2,4,6-Trichlorophenol	0.375	0.388		3.5	20.0
2-Fluorobiphenyl	1.431	1.477		3.2	
2,4,5-Trichlorophenol	0.410	0.421		2.7	
1,1-Biphenyl	1.554	1.644		5.8	
2-Chloronaphthalene	1.175	1.226		4.3	
2-Nitroaniline	0.278	0.318		14.4	
Dimethylphthalate	1.411	1.432		1.5	
Acenaphthylene	1.731	1.848		6.8	
2,6-Dinitrotoluene	0.287	0.305		6.3	
3-Nitroaniline	0.307	0.333		8.5	
Acenaphthene	1.115	1.163		4.3	20.0
2,4-Dinitrophenol	0.153	0.150	0.050	-2.0	
4-Nitrophenol	0.265	0.284	0.050	7.2	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.811	1.860		2.7	
2,4-Dinitrotoluene	0.373	0.410		9.9	
Diethylphthalate	1.400	1.444		3.1	
4-Chlorophenyl-phenylether	0.696	0.711		2.2	
Fluorene	1.414	1.483		4.9	
4-Nitroaniline	0.318	0.361		13.5	
4,6-Dinitro-2-methylphenol	0.116	0.117		0.9	
n-Nitrosodiphenylamine	0.624	0.657		5.3	20.0
2,4,6-Tribromophenol	0.245	0.250		2.0	
4-Bromophenyl-phenylether	0.225	0.229		1.8	
Hexachlorobenzene	0.264	0.266		0.8	
Atrazine	0.160	0.165		3.1	
Pentachlorophenol	0.172	0.177		2.9	20.0
Phenanthrene	1.128	1.179		4.5	
Anthracene	1.081	1.156		6.9	
Carbazole	1.030	1.134		10.1	
Di-n-butylphthalate	1.201	1.298		8.1	
Fluoranthene	1.275	1.362		6.8	20.0
Pyrene	1.270	1.346		6.0	
Terphenyl-d14	1.011	1.053		4.2	
Butylbenzylphthalate	0.487	0.539		10.7	
3,3-Dichlorobenzidine	0.392	0.430		9.7	
Benzo (a) anthracene	1.254	1.335		6.5	
Chrysene	1.209	1.276		5.5	
Bis(2-ethylhexyl)phthalate	0.738	0.814		10.3	
Di-n-octyl phthalate	1.180	1.229		4.2	20.0
Benzo (b) fluoranthene	1.270	1.310		3.2	
Benzo (k) fluoranthene	1.236	1.279		3.5	
Benzo (a) pyrene	1.078	1.140		5.8	20.0
Indeno (1,2,3-cd) pyrene	1.423	1.540		8.2	
Dibenzo (a,h) anthracene	1.196	1.289		7.8	
Benzo (g,h,i) perylene	1.214	1.310		7.9	
1,2,4,5-Tetrachlorobenzene	0.615	0.630		2.4	
1,4-Dioxane	0.503	0.587		16.7	20.0
2,3,4,6-Tetrachlorophenol	0.356	0.364		2.2	

All other compounds must meet a minimum RRF of 0.010.