

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: Q2393 SAS No.: Q2393 SDG No.: Q2393

Instrument ID: BNA_F Calibration Date/Time: 06/25/2025 13:25

Lab File ID: BF142834.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.310		9.1	
Benzaldehyde	0.841	1.601		90.4	
Phenol-d6	1.417	1.498		5.7	
Phenol	1.575	1.609		2.2	20.0
bis(2-Chloroethyl)ether	1.126	1.187		5.4	
2-Chlorophenol	1.296	1.378		6.3	
2-Methylphenol	0.982	0.980		-0.2	
2,2-oxybis(1-Chloropropane)	1.809	1.824		0.8	
Acetophenone	0.441	0.485		10.0	
3+4-Methylphenols	1.224	1.248		2.0	
n-Nitroso-di-n-propylamine	0.824	0.810	0.050	-1.7	
Nitrobenzene-d5	0.365	0.429		17.5	
Hexachloroethane	0.511	0.536		4.9	
Nitrobenzene	0.330	0.360		9.1	
Isophorone	0.585	0.564		-3.6	
2-Nitrophenol	0.180	0.204		13.3	20.0
2,4-Dimethylphenol	0.311	0.255		-18.0	
bis(2-Chloroethoxy)methane	0.372	0.395		6.2	
2,4-Dichlorophenol	0.282	0.314		11.3	20.0
Naphthalene	0.979	1.102		12.6	
4-Chloroaniline	0.398	0.363		-8.8	
Hexachlorobutadiene	0.190	0.213		12.1	20.0
Caprolactam	0.075	0.076		1.3	
4-Chloro-3-methylphenol	0.281	0.297		5.7	20.0
2-Methylnaphthalene	0.607	0.706		16.3	
Hexachlorocyclopentadiene	0.335	0.399	0.050	19.1	
2,4,6-Trichlorophenol	0.385	0.433		12.5	20.0
2-Fluorobiphenyl	1.522	1.796		18.0	
2,4,5-Trichlorophenol	0.405	0.455		12.3	
1,1-Biphenyl	1.580	1.785		13.0	
2-Chloronaphthalene	1.186	1.311		10.5	
2-Nitroaniline	0.332	0.349		5.1	
Dimethylphthalate	1.295	1.402		8.3	
Acenaphthylene	1.952	2.014		3.2	
2,6-Dinitrotoluene	0.284	0.309		8.8	
3-Nitroaniline	0.313	0.321		2.6	
Acenaphthene	1.191	1.337		12.3	20.0
2,4-Dinitrophenol	0.142	0.160	0.050	12.7	
4-Nitrophenol	0.214	0.227	0.050	6.1	

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COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.910		11.8	
2,4-Dinitrotoluene	0.378	0.393		4.0	
Diethylphthalate	1.269	1.419		11.8	
4-Chlorophenyl-phenylether	0.636	0.688		8.2	
Fluorene	1.334	1.434		7.5	
4-Nitroaniline	0.286	0.307		7.3	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.693	0.758		9.4	20.0
2,4,6-Tribromophenol	0.206	0.217		5.3	
4-Bromophenyl-phenylether	0.228	0.259		13.6	
Hexachlorobenzene	0.253	0.277		9.5	
Atrazine	0.179	0.201		12.3	
Pentachlorophenol	0.126	0.150		19.0	20.0
Phenanthrene	1.083	1.190		9.9	
Anthracene	1.111	1.171		5.4	
Carbazole	0.959	1.070		11.6	
Di-n-butylphthalate	0.999	1.304		30.5	
Fluoranthene	1.028	1.225		19.2	20.0
Pyrene	1.875	1.558		-16.9	
Terphenyl-d14	1.447	1.279		-11.6	
Butylbenzylphthalate	0.544	0.670		23.2	
3,3-Dichlorobenzidine	0.438	0.471		7.5	
Benzo (a) anthracene	1.349	1.494		10.7	
Chrysene	1.204	1.301		8.1	
Bis(2-ethylhexyl)phthalate	0.782	1.016		29.9	
Di-n-octyl phthalate	1.475	1.826		23.8	20.0
Benzo (b) fluoranthene	1.157	1.366		18.1	
Benzo (k) fluoranthene	1.083	1.131		4.4	
Benzo (a) pyrene	1.118	1.144		2.3	20.0
Indeno (1,2,3-cd) pyrene	1.523	1.533		0.7	
Dibenzo (a,h) anthracene	1.238	1.245		0.6	
Benzo (g,h,i) perylene	1.234	1.274		3.2	
1,2,4,5-Tetrachlorobenzene	0.590	0.700		18.6	
1,4-Dioxane	0.480	0.501		4.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.363		11.4	

All other compounds must meet a minimum RRF of 0.010.