

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2318 SAS No.: Q2318 SDG No.: Q2318

Instrument ID: BNA_N Calibration Date/Time: 06/19/2025 12:19

Lab File ID: BN037342.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTD020226 Init. Calib. Time(s): 11:00 14:16

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

COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
1,4-Dioxane	0.431	0.453	0.010	4.9	40.0
Benzaldehyde	0.658	0.805	0.010	22.4	40.0
Phenol	1.181	1.145	0.080	-3.0	20.0
Bis(2-Chloroethyl)ether	0.943	0.910	0.100	-3.5	20.0
2-Chlorophenol	1.026	1.031	0.200	0.6	20.0
2-Methylphenol	0.895	0.861	0.010	-3.8	20.0
2,2-oxybis(1-Chloropropane)	0.793	0.773	0.010	-2.5	20.0
Acetophenone	1.543	1.531	0.060	-0.8	20.0
4-Methylphenol	0.968	0.925	0.010	-4.5	20.0
N-Nitroso-di-n-propylamine	0.733	0.725	0.050	-1.1	20.0
Hexachloroethane	0.537	0.545	0.100	1.5	20.0
Nitrobenzene	0.397	0.420	0.050	5.7	20.0
Isophorone	0.612	0.636	0.050	4.0	20.0
2-Nitrophenol	0.181	0.190	0.050	4.9	25.0
2,4-Dimethylphenol	0.358	0.373	0.050	4.2	20.0
Bis(2-Chloroethoxy)methane	0.367	0.386	0.050	5.1	20.0
2,4-Dichlorophenol	0.379	0.390	0.060	3.1	20.0
Naphthalene	1.004	1.036	0.200	3.2	20.0
4-Chloroaniline	0.387	0.390	0.010	1.0	40.0
Hexachlorobutadiene	0.406	0.404	0.040	-0.5	20.0
Caprolactam	0.079	0.077	0.010	-3.6	40.0
4-Chloro-3-methylphenol	0.298	0.316	0.040	6.3	20.0
2-Methylnaphthalene	0.763	0.792	0.100	3.8	20.0
Hexachlorocyclopentadiene	0.631	0.621	0.010	-1.6	40.0
2,4,6-Trichlorophenol	0.465	0.473	0.090	1.6	25.0
2,4,5-Trichlorophenol	0.523	0.529	0.100	1.0	20.0
1,1-Biphenyl	1.430	1.481	0.200	3.5	20.0
2-Chloronaphthalene	1.180	1.206	0.300	2.2	20.0
2-Nitroaniline	0.249	0.275	0.050	10.6	25.0
Dimethylphthalate	1.433	1.493	0.300	4.2	20.0
2,6-Dinitrotoluene	0.286	0.297	0.080	3.8	40.0
Acenaphthylene	1.738	1.782	0.400	2.5	20.0
3-Nitroaniline	0.218	0.222	0.010	2.1	40.0
Acenaphthene	1.175	1.219	0.200	3.8	25.0
2,4-Dinitrophenol	0.199	0.182	0.010	-8.6	40.0
4-Nitrophenol	0.224	0.247	0.010	10.6	40.0
Dibenzofuran	1.818	1.868	0.300	2.8	20.0
2,4-Dinitrotoluene	0.415	0.443	0.070	6.8	40.0
Diethylphthalate	1.347	1.436	0.300	6.6	20.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Fluorene	1.454	1.535	0.200	5.6	25.0
4-Chlorophenyl-phenylether	0.900	0.913	0.100	1.5	25.0
4-Nitroaniline	0.205	0.225	0.010	10.1	40.0
4,6-Dinitro-2-methylphenol	0.147	0.133	0.010	-9.8	40.0
N-Nitrosodiphenylamine	0.556	0.536	0.050	-3.7	20.0
1,2,4,5-Tetrachlorobenzene	0.825	0.819	0.100	-0.7	20.0
4-Bromophenyl-phenylether	0.246	0.237	0.070	-3.9	20.0
Hexachlorobenzene	0.277	0.271	0.050	-2.1	25.0
Atrazine	0.251	0.245	0.010	-2.3	40.0
Pentachlorophenol	0.184	0.174	0.010	-5.3	40.0
Phenanthrene	1.087	1.088	0.200	0.0	20.0
Anthracene	1.102	1.107	0.200	0.5	20.0
Carbazole	0.910	0.895	0.050	-1.6	40.0
Di-n-butylphthalate	0.981	1.033	0.500	5.3	20.0
Fluoranthene	1.248	1.286	0.400	3.1	20.0
Pyrene	1.314	1.387	0.400	5.6	20.0
Butylbenzylphthalate	0.392	0.427	0.100	8.9	40.0
3,3-Dichlorobenzidine	0.408	0.413	0.010	1.4	40.0
Benzo(a)anthracene	1.351	1.411	0.300	4.4	20.0
Chrysene	1.255	1.321	0.200	5.3	20.0
Bis(2-ethylhexyl)phthalate	0.586	0.637	0.200	8.6	40.0
Di-n-octyl phthalate	0.988	0.921	0.010	-6.7	40.0
Benzo(b)fluoranthene	1.237	1.265	0.200	2.3	20.0
Benzo(k)fluoranthene	1.263	1.295	0.200	2.6	20.0
Benzo(a)pyrene	1.162	1.216	0.200	4.7	20.0
Indeno(1,2,3-cd)pyrene	1.557	1.654	0.200	6.2	20.0
Dibenzo(a,h)anthracene	1.274	1.325	0.200	4.0	20.0
Benzo(g,h,i)perylene	1.281	1.381	0.200	7.8	20.0
2,3,4,6-Tetrachlorophenol	0.445	0.451	0.040	1.3	40.0
1,4-Dioxane-d8	0.374	0.411	0.010	9.8	20.0
Pyridine-d5	1.000	1.021	0.010	2.1	40.0
Phenol-d5	1.153	1.131	0.010	-1.9	20.0
Bis-(2-Chloroethyl)ether-d8	0.719	0.699	0.050	-2.8	20.0
2-Chlorophenol-d4	1.022	1.031	0.200	0.8	20.0
4-Methylphenol-d8	0.944	0.916	0.010	-3.0	20.0
Nitrobenzene-d5	0.147	0.153	0.050	4.5	20.0
2-Nitrophenol-d4	0.179	0.181	0.050	1.2	25.0
2,4-Dichlorophenol-d3	0.388	0.396	0.060	2.1	20.0
4-Chloroaniline-d4	0.390	0.397	0.010	1.8	40.0

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Dimethylphthalate-d6	1.475	1.493	0.300	1.2	20.0
Acenaphthylene-d8	1.623	1.684	0.400	3.8	20.0
4-Nitrophenol-d4	0.219	0.216	0.010	-1.2	40.0
Fluorene-d10	1.333	1.390	0.100	4.3	20.0
4,6-Dinitro-2-methylphenol-d2	0.143	0.126	0.010	-11.6	40.0
Anthracene-d10	0.988	0.971	0.300	-1.7	20.0
Pyrene-d10	1.088	1.144	0.300	5.1	20.0
Benzo(a)pyrene-d12	1.039	1.085	0.010	4.4	20.0

All other compounds must meet a minimum RRF of 0.010.