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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2378 SAS No.: Q2378 SDG No.: Q2378

Instrument ID: BNA_N Calibration Date/Time: 06/24/2025 09:57

Lab File ID: BN037367.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTD020372 Init. Calib. Time(s): 11:00 14:16

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.431	0.460	0.010	6.6	40.0
Benzaldehyde	0.658	0.835	0.010	26.9	40.0
Phenol	1.181	1.281	0.080	8.5	20.0
Bis(2-Chloroethyl)ether	0.943	1.028	0.100	9.1	20.0
2-Chlorophenol	1.026	1.152	0.200	12.3	20.0
2-Methylphenol	0.895	0.934	0.010	4.2	20.0
2,2-oxybis(1-Chloropropane)	0.793	0.899	0.010	13.4	40.0
Acetophenone	1.543	1.674	0.060	8.5	20.0
4-Methylphenol	0.968	1.034	0.010	6.8	20.0
N-Nitroso-di-n-propylamine	0.733	0.811	0.050	10.6	30.0
Hexachloroethane	0.537	0.579	0.100	7.7	20.0
Nitrobenzene	0.397	0.417	0.050	4.9	25.0
Isophorone	0.612	0.637	0.050	4.1	25.0
2-Nitrophenol	0.181	0.192	0.050	6.3	25.0
2,4-Dimethylphenol	0.358	0.369	0.050	3.0	25.0
Bis(2-Chloroethoxy)methane	0.367	0.388	0.050	5.8	20.0
2,4-Dichlorophenol	0.379	0.393	0.060	3.9	20.0
Naphthalene	1.004	1.047	0.200	4.3	20.0
4-Chloroaniline	0.387	0.394	0.010	1.8	40.0
Hexachlorobutadiene	0.406	0.378	0.040	-6.8	30.0
Caprolactam	0.079	0.077	0.010	-2.9	40.0
4-Chloro-3-methylphenol	0.298	0.305	0.040	2.5	25.0
2-Methylnaphthalene	0.763	0.781	0.100	2.3	20.0
Hexachlorocyclopentadiene	0.631	0.567	0.010	-10.1	40.0
2,4,6-Trichlorophenol	0.465	0.452	0.090	-2.9	25.0
2,4,5-Trichlorophenol	0.523	0.507	0.100	-3.0	25.0
1,1-Biphenyl	1.430	1.451	0.200	1.5	20.0
2-Chloronaphthalene	1.180	1.218	0.300	3.3	20.0
2-Nitroaniline	0.249	0.261	0.050	5.2	40.0
Dimethylphthalate	1.433	1.469	0.300	2.5	20.0
2,6-Dinitrotoluene	0.286	0.283	0.080	-1.2	30.0
Acenaphthylene	1.738	1.811	0.400	4.2	20.0
3-Nitroaniline	0.218	0.228	0.010	4.7	40.0
Acenaphthene	1.175	1.224	0.200	4.2	20.0
2,4-Dinitrophenol	0.199	0.174	0.010	-12.9	40.0
4-Nitrophenol	0.224	0.220	0.010	-1.7	40.0
Dibenzofuran	1.818	1.880	0.300	3.4	20.0
2,4-Dinitrotoluene	0.415	0.435	0.070	4.8	30.0
Diethylphthalate	1.347	1.392	0.300	3.3	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.454	1.520	0.200	4.6	20.0
4-Chlorophenyl-phenylether	0.900	0.862	0.100	-4.2	20.0
4-Nitroaniline	0.205	0.231	0.010	12.9	40.0
4,6-Dinitro-2-methylphenol	0.147	0.145	0.010	-1.3	40.0
N-Nitrosodiphenylamine	0.556	0.600	0.050	7.9	20.0
1,2,4,5-Tetrachlorobenzene	0.825	0.788	0.100	-4.6	20.0
4-Bromophenyl-phenylether	0.246	0.241	0.070	-2.2	20.0
Hexachlorobenzene	0.277	0.272	0.050	-1.9	25.0
Atrazine	0.251	0.246	0.010	-2.2	25.0
Pentachlorophenol	0.184	0.169	0.010	-8.5	40.0
Phenanthrene	1.087	1.150	0.200	5.8	20.0
Anthracene	1.102	1.195	0.200	8.4	20.0
Carbazole	0.910	0.984	0.050	8.2	40.0
Di-n-butylphthalate	0.981	1.078	0.500	9.9	25.0
Fluoranthene	1.248	1.282	0.400	2.8	25.0
Pyrene	1.314	1.338	0.400	1.8	25.0
Butylbenzylphthalate	0.392	0.420	0.100	7.2	40.0
3,3-Dichlorobenzidine	0.408	0.411	0.010	0.7	40.0
Benzo(a)anthracene	1.351	1.425	0.300	5.5	30.0
Chrysene	1.255	1.342	0.200	7.0	30.0
Bis(2-ethylhexyl)phthalate	0.586	0.643	0.200	9.7	40.0
Di-n-octyl phthalate	0.988	0.919	0.010	-6.9	40.0
Benzo(b)fluoranthene	1.237	1.243	0.200	0.5	25.0
Benzo(k)fluoranthene	1.263	1.264	0.200	0.1	25.0
Benzo(a)pyrene	1.162	1.187	0.200	2.2	20.0
Indeno(1,2,3-cd)pyrene	1.557	1.556	0.200	0.0	25.0
Dibenzo(a,h)anthracene	1.274	1.267	0.200	-0.6	30.0
Benzo(g,h,i)perylene	1.281	1.271	0.200	-0.8	30.0
2,3,4,6-Tetrachlorophenol	0.445	0.431	0.040	-3.3	20.0
1,4-Dioxane-d8	0.374	0.431	0.010	15.2	25.0
Pyridine-d5	1.000	1.103	0.010	10.3	40.0
Phenol-d5	1.153	1.262	0.010	9.4	25.0
Bis-(2-Chloroethyl)ether-d8	0.719	0.782	0.050	8.9	25.0
2-Chlorophenol-d4	1.022	1.107	0.200	8.3	20.0
4-Methylphenol-d8	0.944	1.003	0.010	6.3	20.0
Nitrobenzene-d5	0.147	0.151	0.050	3.3	20.0
2-Nitrophenol-d4	0.179	0.182	0.050	1.8	30.0
2,4-Dichlorophenol-d3	0.388	0.400	0.060	3.1	20.0
4-Chloroaniline-d4	0.390	0.393	0.010	0.9	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.475	1.499	0.300	1.6	20.0
Acenaphthylene-d8	1.623	1.671	0.400	3.0	20.0
4-Nitrophenol-d4	0.219	0.220	0.010	0.4	40.0
Fluorene-d10	1.333	1.393	0.100	4.5	20.0
4,6-Dinitro-2-methylphenol-d2	0.143	0.136	0.010	-4.9	40.0
Anthracene-d10	0.988	1.038	0.300	5.1	20.0
Pyrene-d10	1.088	1.104	0.300	1.5	25.0
Benzo(a)pyrene-d12	1.039	1.046	0.010	0.7	20.0

All other compounds must meet a minimum RRF of 0.010.