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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1793 SAS No.: Q1793 SDG No.: Q1793

Instrument ID: BNA_N Calibration Date/Time: 04/15/2025 12:17

Lab File ID: BN036913.D Init. Calib. Date(s): 04/15/2025 04/15/2025

EPA Sample No.: SSTD020212 Init. Calib. Time(s): 10:59 14:15

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

COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
1,4-Dioxane	0.564	0.584	0.010	3.5	40.0
Benzaldehyde	0.889	1.185	0.010	33.4	40.0
Phenol	1.873	1.898	0.080	1.3	20.0
Bis(2-Chloroethyl)ether	1.486	1.567	0.100	5.4	20.0
2-Chlorophenol	1.346	1.407	0.200	4.5	20.0
2-Methylphenol	1.355	1.382	0.010	2.0	20.0
2,2-oxybis(1-Chloropropane)	2.926	3.102	0.010	6.0	20.0
Acetophenone	2.387	2.475	0.060	3.7	20.0
4-Methylphenol	1.529	1.588	0.010	3.9	20.0
N-Nitroso-di-n-propylamine	1.383	1.484	0.050	7.3	20.0
Hexachloroethane	0.654	0.669	0.100	2.4	20.0
Nitrobenzene	0.475	0.499	0.050	4.9	20.0
Isophorone	0.824	0.881	0.050	6.9	20.0
2-Nitrophenol	0.178	0.189	0.050	5.8	25.0
2,4-Dimethylphenol	0.395	0.413	0.050	4.5	20.0
Bis(2-Chloroethoxy)methane	0.473	0.494	0.050	4.5	20.0
2,4-Dichlorophenol	0.306	0.319	0.060	4.3	20.0
Naphthalene	1.055	1.089	0.200	3.3	20.0
4-Chloroaniline	0.427	0.443	0.010	3.8	40.0
Hexachlorobutadiene	0.207	0.214	0.040	3.1	20.0
Caprolactam	0.103	0.104	0.010	0.6	40.0
4-Chloro-3-methylphenol	0.375	0.401	0.040	6.8	20.0
2-Methylnaphthalene	0.743	0.775	0.100	4.3	20.0
Hexachlorocyclopentadiene	0.345	0.334	0.010	-3.3	40.0
2,4,6-Trichlorophenol	0.364	0.386	0.090	5.9	25.0
2,4,5-Trichlorophenol	0.397	0.419	0.100	5.6	20.0
1,1-Biphenyl	1.461	1.502	0.200	2.8	20.0
2-Chloronaphthalene	1.115	1.163	0.300	4.3	20.0
2-Nitroaniline	0.467	0.499	0.050	6.7	25.0
Dimethylphthalate	1.461	1.510	0.300	3.3	20.0
2,6-Dinitrotoluene	0.283	0.299	0.080	5.6	40.0
Acenaphthylene	1.720	1.798	0.400	4.5	20.0
3-Nitroaniline	0.286	0.316	0.010	10.5	40.0
Acenaphthene	1.267	1.323	0.200	4.4	25.0
2,4-Dinitrophenol	0.187	0.173	0.010	-7.4	40.0
4-Nitrophenol	0.314	0.336	0.010	7.2	40.0
Dibenzofuran	1.759	1.819	0.300	3.4	20.0
2,4-Dinitrotoluene	0.428	0.453	0.070	5.8	40.0
Diethylphthalate	1.568	1.640	0.300	4.6	20.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Fluorene	1.437	1.513	0.200	5.2	25.0
4-Chlorophenyl-phenylether	0.694	0.704	0.100	1.5	25.0
4-Nitroaniline	0.275	0.324	0.010	17.7	40.0
4,6-Dinitro-2-methylphenol	0.142	0.141	0.010	-1.0	40.0
N-Nitrosodiphenylamine	0.606	0.625	0.050	3.0	20.0
1,2,4,5-Tetrachlorobenzene	0.571	0.583	0.100	2.2	20.0
4-Bromophenyl-phenylether	0.195	0.208	0.070	6.4	20.0
Hexachlorobenzene	0.209	0.217	0.050	4.2	25.0
Atrazine	0.229	0.240	0.010	5.0	40.0
Pentachlorophenol	0.150	0.149	0.010	-0.5	40.0
Phenanthrene	1.122	1.189	0.200	6.0	20.0
Anthracene	1.137	1.191	0.200	4.8	20.0
Carbazole	1.036	1.090	0.050	5.3	40.0
Di-n-butylphthalate	1.308	1.398	0.500	6.9	20.0
Fluoranthene	1.393	1.404	0.400	0.9	20.0
Pyrene	1.494	1.534	0.400	2.6	20.0
Butylbenzylphthalate	0.593	0.629	0.100	6.1	40.0
3,3-Dichlorobenzidine	0.356	0.380	0.010	6.8	40.0
Benzo(a)anthracene	1.348	1.410	0.300	4.6	20.0
Chrysene	1.269	1.337	0.200	5.4	20.0
Bis(2-ethylhexyl)phthalate	0.848	0.894	0.200	5.5	40.0
Di-n-octyl phthalate	1.534	1.403	0.010	-8.5	40.0
Benzo(b)fluoranthene	1.252	1.327	0.200	6.0	20.0
Benzo(k)fluoranthene	1.261	1.335	0.200	5.8	20.0
Benzo(a)pyrene	1.131	1.190	0.200	5.2	20.0
Indeno(1,2,3-cd)pyrene	1.264	1.219	0.200	-3.6	20.0
Dibenzo(a,h)anthracene	1.029	0.991	0.200	-3.6	20.0
Benzo(g,h,i)perylene	0.964	0.900	0.200	-6.6	20.0
2,3,4,6-Tetrachlorophenol	0.337	0.339	0.040	0.8	40.0
1,4-Dioxane-d8	0.497	0.539	0.010	8.3	20.0
Pyridine-d5	1.510	1.547	0.010	2.4	40.0
Phenol-d5	1.758	1.782	0.010	1.4	20.0
Bis-(2-Chloroethyl)ether-d8	1.284	1.339	0.050	4.3	20.0
2-Chlorophenol-d4	1.267	1.332	0.200	5.1	20.0
4-Methylphenol-d8	1.439	1.487	0.010	3.3	20.0
Nitrobenzene-d5	0.154	0.159	0.050	3.1	20.0
2-Nitrophenol-d4	0.162	0.169	0.050	4.2	25.0
2,4-Dichlorophenol-d3	0.299	0.308	0.060	3.1	20.0
4-Chloroaniline-d4	0.447	0.459	0.010	2.6	40.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.470	1.537	0.300	4.5	20.0
Acenaphthylene-d8	1.623	1.708	0.400	5.2	20.0
4-Nitrophenol-d4	0.280	0.293	0.010	4.6	40.0
Fluorene-d10	1.226	1.272	0.100	3.7	20.0
4,6-Dinitro-2-methylphenol-d2	0.132	0.129	0.010	-2.2	40.0
Anthracene-d10	0.962	1.011	0.300	5.1	20.0
Pyrene-d10	1.174	1.203	0.300	2.5	20.0
Benzo(a)pyrene-d12	1.003	1.051	0.010	4.8	20.0

All other compounds must meet a minimum RRF of 0.010.