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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q1526 SAS No.: Q1526 SDG No.: Q1526
Instrument ID: BNA_P Calibration Date/Time: 03/11/2025 14:18
Lab File ID: BP024155.D Init. Calib. Date(s): 03/04/2025 03/04/2025
EPA Sample No.: SSTD020665 Init. Calib. Time(s): 09:37 13:01
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.530	0.592	0.010	11.9	40.0
Benzaldehyde	0.915	1.179	0.010	28.9	40.0
Phenol	1.844	1.993	0.080	8.1	20.0
Bis(2-Chloroethyl)ether	1.403	1.546	0.100	10.2	20.0
2-Chlorophenol	1.421	1.591	0.200	12.0	20.0
2-Methylphenol	1.348	1.436	0.010	6.5	20.0
2,2-oxybis(1-Chloropropane)	1.471	1.676	0.010	13.9	40.0
Acetophenone	2.169	2.382	0.060	9.9	20.0
4-Methylphenol	1.493	1.606	0.010	7.5	20.0
N-Nitroso-di-n-propylamine	1.017	1.158	0.050	13.8	30.0
Hexachloroethane	0.566	0.615	0.100	8.5	20.0
Nitrobenzene	0.363	0.403	0.050	11.1	25.0
Isophorone	0.680	0.754	0.050	10.8	25.0
2-Nitrophenol	0.187	0.202	0.050	8.1	25.0
2,4-Dimethylphenol	0.335	0.377	0.050	12.6	25.0
Bis(2-Chloroethoxy)methane	0.433	0.482	0.050	11.4	20.0
2,4-Dichlorophenol	0.310	0.342	0.060	10.4	20.0
Naphthalene	1.083	1.189	0.200	9.8	20.0
4-Chloroaniline	0.442	0.494	0.010	11.7	40.0
Hexachlorobutadiene	0.190	0.206	0.040	8.9	30.0
Caprolactam	0.118	0.122	0.010	3.8	40.0
4-Chloro-3-methylphenol	0.322	0.365	0.040	13.2	25.0
2-Methylnaphthalene	0.731	0.810	0.100	10.8	20.0
Hexachlorocyclopentadiene	0.314	0.314	0.010	-0.1	40.0
2,4,6-Trichlorophenol	0.380	0.409	0.090	7.6	25.0
2,4,5-Trichlorophenol	0.414	0.448	0.100	8.2	25.0
1,1-Biphenyl	1.521	1.625	0.200	6.9	20.0
2-Chloronaphthalene	1.180	1.270	0.300	7.7	20.0
2-Nitroaniline	0.307	0.338	0.050	10.1	40.0
Dimethylphthalate	1.450	1.593	0.300	9.9	20.0
2,6-Dinitrotoluene	0.284	0.308	0.080	8.2	30.0
Acenaphthylene	1.821	1.993	0.400	9.5	20.0
3-Nitroaniline	0.331	0.356	0.010	7.8	40.0
Acenaphthene	1.282	1.409	0.200	9.9	20.0
2,4-Dinitrophenol	0.177	0.156	0.010	-12.1	40.0
4-Nitrophenol	0.206	0.223	0.010	8.3	40.0
Dibenzofuran	1.768	1.948	0.300	10.2	20.0
2,4-Dinitrotoluene	0.423	0.467	0.070	10.4	30.0
Diethylphthalate	1.435	1.589	0.300	10.7	20.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Fluorene	1.445	1.590	0.200	10.0	20.0
4-Chlorophenyl-phenylether	0.698	0.768	0.100	10.0	20.0
4-Nitroaniline	0.325	0.379	0.010	16.5	40.0
4,6-Dinitro-2-methylphenol	0.138	0.137	0.010	-0.6	40.0
N-Nitrosodiphenylamine	0.610	0.665	0.050	9.0	20.0
1,2,4,5-Tetrachlorobenzene	0.604	0.642	0.100	6.2	20.0
4-Bromophenyl-phenylether	0.220	0.235	0.070	6.6	20.0
Hexachlorobenzene	0.268	0.286	0.050	6.7	25.0
Atrazine	0.221	0.248	0.010	12.4	25.0
Pentachlorophenol	0.168	0.167	0.010	-0.4	40.0
Phenanthrene	1.143	1.253	0.200	9.6	20.0
Anthracene	1.152	1.256	0.200	9.0	20.0
Carbazole	1.046	1.181	0.050	12.9	40.0
Di-n-butylphthalate	1.218	1.366	0.500	12.1	25.0
Fluoranthene	1.168	1.293	0.400	10.7	25.0
Pyrene	1.259	1.399	0.400	11.1	25.0
Butylbenzylphthalate	0.508	0.556	0.100	9.4	40.0
3,3-Dichlorobenzidine	0.400	0.440	0.010	10.0	40.0
Benzo(a)anthracene	1.309	1.447	0.300	10.6	30.0
Chrysene	1.229	1.357	0.200	10.4	30.0
Bis(2-ethylhexyl)phthalate	0.762	0.851	0.200	11.8	40.0
Di-n-octyl phthalate	1.168	1.281	0.010	9.7	40.0
Benzo(b)fluoranthene	1.190	1.336	0.200	12.3	25.0
Benzo(k)fluoranthene	1.207	1.346	0.200	11.5	25.0
Benzo(a)pyrene	1.125	1.246	0.200	10.7	20.0
Indeno(1,2,3-cd)pyrene	1.487	1.574	0.200	5.9	25.0
Dibenzo(a,h)anthracene	1.208	1.282	0.200	6.1	30.0
Benzo(g,h,i)perylene	1.154	1.223	0.200	6.0	30.0
2,3,4,6-Tetrachlorophenol	0.340	0.378	0.040	11.0	20.0
1,4-Dioxane-d8	0.502	0.583	0.010	16.1	25.0
Pyridine-d5	1.444	1.599	0.010	10.7	40.0
Phenol-d5	1.775	1.879	0.010	5.9	25.0
Bis-(2-Chloroethyl)ether-d8	0.977	1.091	0.050	11.7	25.0
2-Chlorophenol-d4	1.362	1.523	0.200	11.8	20.0
4-Methylphenol-d8	1.401	1.494	0.010	6.6	20.0
Nitrobenzene-d5	0.161	0.175	0.050	8.6	20.0
2-Nitrophenol-d4	0.169	0.180	0.050	7.0	30.0
2,4-Dichlorophenol-d3	0.303	0.335	0.060	10.5	20.0
4-Chloroaniline-d4	0.463	0.517	0.010	11.6	40.0

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COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.449	1.595	0.300	10.1	20.0
Acenaphthylene-d8	1.681	1.855	0.400	10.4	20.0
4-Nitrophenol-d4	0.297	0.316	0.010	6.4	40.0
Fluorene-d10	1.231	1.372	0.100	11.5	20.0
4,6-Dinitro-2-methylphenol-d2	0.126	0.121	0.010	-4.6	40.0
Anthracene-d10	0.976	1.071	0.300	9.7	20.0
Pyrene-d10	1.002	1.102	0.300	10.0	25.0
Benzo(a)pyrene-d12	1.037	1.149	0.010	10.8	20.0

All other compounds must meet a minimum RRF of 0.010.