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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q2164 SAS No.: Q2164 SDG No.: Q2164

Instrument ID: BNA_P Calibration Date/Time: 06/05/2025 11:49

Lab File ID: BP024850.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTD020633 Init. Calib. Time(s): 10:27 13:52

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

COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
1,4-Dioxane	0.566	0.575	0.010	1.6	40.0
Benzaldehyde	0.731	0.931	0.010	27.3	40.0
Phenol	1.663	1.696	0.080	2.0	20.0
Bis(2-Chloroethyl)ether	1.305	1.371	0.100	5.0	20.0
2-Chlorophenol	1.349	1.435	0.200	6.4	20.0
2-Methylphenol	1.275	1.322	0.010	3.7	20.0
2,2-oxybis(1-Chloropropane)	1.651	1.732	0.010	4.9	20.0
Acetophenone	2.034	2.185	0.060	7.4	20.0
4-Methylphenol	1.380	1.452	0.010	5.2	20.0
N-Nitroso-di-n-propylamine	1.043	1.129	0.050	8.2	20.0
Hexachloroethane	0.563	0.581	0.100	3.2	20.0
Nitrobenzene	0.361	0.379	0.050	4.8	20.0
Isophorone	0.710	0.742	0.050	4.6	20.0
2-Nitrophenol	0.189	0.200	0.050	5.9	25.0
2,4-Dimethylphenol	0.351	0.370	0.050	5.4	20.0
Bis(2-Chloroethoxy)methane	0.416	0.434	0.050	4.3	20.0
2,4-Dichlorophenol	0.300	0.316	0.060	5.5	20.0
Naphthalene	1.039	1.074	0.200	3.4	20.0
4-Chloroaniline	0.409	0.427	0.010	4.4	40.0
Hexachlorobutadiene	0.202	0.207	0.040	2.3	20.0
Caprolactam	0.113	0.115	0.010	2.4	40.0
4-Chloro-3-methylphenol	0.338	0.359	0.040	6.2	20.0
2-Methylnaphthalene	0.730	0.754	0.100	3.3	20.0
Hexachlorocyclopentadiene	0.289	0.267	0.010	-7.7	40.0
2,4,6-Trichlorophenol	0.374	0.390	0.090	4.1	25.0
2,4,5-Trichlorophenol	0.389	0.401	0.100	3.1	20.0
1,1-Biphenyl	1.445	1.491	0.200	3.2	20.0
2-Chloronaphthalene	1.120	1.159	0.300	3.5	20.0
2-Nitroaniline	0.330	0.356	0.050	8.0	25.0
Dimethylphthalate	1.470	1.492	0.300	1.5	20.0
2,6-Dinitrotoluene	0.297	0.314	0.080	5.6	40.0
Acenaphthylene	1.703	1.773	0.400	4.1	20.0
3-Nitroaniline	0.302	0.322	0.010	6.5	40.0
Acenaphthene	1.235	1.290	0.200	4.5	25.0
2,4-Dinitrophenol	0.178	0.155	0.010	-13.3	40.0
4-Nitrophenol	0.196	0.175	0.010	-11.2	40.0
Dibenzofuran	1.699	1.744	0.300	2.6	20.0
2,4-Dinitrotoluene	0.444	0.460	0.070	3.5	40.0
Diethylphthalate	1.508	1.517	0.300	0.6	20.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Fluorene	1.361	1.392	0.200	2.3	25.0
4-Chlorophenyl-phenylether	0.674	0.679	0.100	0.7	25.0
4-Nitroaniline	0.254	0.284	0.010	11.7	40.0
4,6-Dinitro-2-methylphenol	0.144	0.148	0.010	2.8	40.0
N-Nitrosodiphenylamine	0.604	0.646	0.050	6.9	20.0
1,2,4,5-Tetrachlorobenzene	0.587	0.604	0.100	3.0	20.0
4-Bromophenyl-phenylether	0.225	0.235	0.070	4.6	20.0
Hexachlorobenzene	0.271	0.281	0.050	3.9	25.0
Atrazine	0.227	0.239	0.010	5.4	40.0
Pentachlorophenol	0.144	0.132	0.010	-8.6	40.0
Phenanthrene	1.097	1.168	0.200	6.4	20.0
Anthracene	1.098	1.156	0.200	5.3	20.0
Carbazole	1.007	1.084	0.050	7.7	40.0
Di-n-butylphthalate	1.322	1.326	0.500	0.3	20.0
Fluoranthene	1.197	1.262	0.400	5.5	20.0
Pyrene	1.268	1.352	0.400	6.6	20.0
Butylbenzylphthalate	0.578	0.587	0.100	1.5	40.0
3,3-Dichlorobenzidine	0.403	0.444	0.010	10.0	40.0
Benzo(a)anthracene	1.278	1.328	0.300	4.0	20.0
Chrysene	1.204	1.242	0.200	3.1	20.0
Bis(2-ethylhexyl)phthalate	0.858	0.873	0.200	1.7	40.0
Di-n-octyl phthalate	1.245	1.280	0.010	2.8	40.0
Benzo(b)fluoranthene	1.146	1.176	0.200	2.6	20.0
Benzo(k)fluoranthene	1.159	1.206	0.200	4.1	20.0
Benzo(a)pyrene	1.072	1.122	0.200	4.7	20.0
Indeno(1,2,3-cd)pyrene	1.448	1.532	0.200	5.8	20.0
Dibenzo(a,h)anthracene	1.167	1.220	0.200	4.5	20.0
Benzo(g,h,i)perylene	1.129	1.201	0.200	6.4	20.0
2,3,4,6-Tetrachlorophenol	0.345	0.353	0.040	2.4	40.0
1,4-Dioxane-d8	0.522	0.530	0.010	1.5	20.0
Pyridine-d5	1.268	1.313	0.010	3.6	40.0
Phenol-d5	1.610	1.652	0.010	2.6	20.0
Bis-(2-Chloroethyl)ether-d8	0.950	0.992	0.050	4.5	20.0
2-Chlorophenol-d4	1.324	1.404	0.200	6.1	20.0
4-Methylphenol-d8	1.325	1.362	0.010	2.8	20.0
Nitrobenzene-d5	0.156	0.162	0.050	3.4	20.0
2-Nitrophenol-d4	0.175	0.186	0.050	6.2	25.0
2,4-Dichlorophenol-d3	0.301	0.315	0.060	4.7	20.0
4-Chloroaniline-d4	0.439	0.462	0.010	5.1	40.0

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COMPOUND	RRF	RRFAL3	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.478	1.514	0.300	2.4	20.0
Acenaphthylene-d8	1.649	1.722	0.400	4.4	20.0
4-Nitrophenol-d4	0.225	0.221	0.010	-2.0	40.0
Fluorene-d10	1.200	1.239	0.100	3.3	20.0
4,6-Dinitro-2-methylphenol-d2	0.135	0.135	0.010	0.1	40.0
Anthracene-d10	0.957	1.018	0.300	6.3	20.0
Pyrene-d10	1.036	1.081	0.300	4.3	20.0
Benzo(a)pyrene-d12	1.019	1.056	0.010	3.6	20.0

All other compounds must meet a minimum RRF of 0.010.