Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: Q1469 SAS No.: Q1469 SDG No.: Q1469

Instrument ID: BNA_P Calibration Date(s): 03/04/2025 03/04/2025

Calibration Time(s): 09:37 13:01

LAB FILE ID: RRFAL1 = BP024144.D RRFAL2 = BP024145.D RRFAL3 = BP024146.D
RRFAL4 = BP024147.D RRFAL5 = BP024148.D RRFAL6 = BP024149.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.518	0.491	0.598	0.553	0.488		0.530	8.7
Benzaldehyde		1.039	1.170	1.010	0.841	0.515	0.915	27.6
Hexachloroethane	0.532	0.544	0.628	0.570	0.558		0.566	6.6
Nitrobenzene	0.335	0.340	0.402	0.379	0.359		0.363	7.6
Isophorone	0.606	0.664	0.743	0.682	0.706		0.680	7.5
2-Nitrophenol	0.156	0.173	0.209	0.197	0.198		0.187	11.7
2,4-Dimethylphenol	0.310	0.318	0.374	0.340	0.332		0.335	7.4
Bis(2-Chloroethoxy)methane	0.400	0.420	0.478	0.436	0.431		0.433	6.6
2,4-Dichlorophenol	0.273	0.292	0.344	0.320	0.319		0.310	9.0
Naphthalene	1.051	1.038	1.184	1.096	1.046		1.083	5.6
4-Chloroaniline		0.424	0.483	0.437	0.436	0.430	0.442	5.3
Hexachlorobutadiene	0.176	0.183	0.210	0.194	0.184		0.190	6.8
Phenol		1.675	1.972	1.825	1.849	1.899	1.844	6.0
Caprolactam		0.104	0.119	0.110	0.123	0.131	0.118	9.1
4-Chloro-3-methylphenol	0.276	0.306	0.353	0.327	0.348		0.322	9.9
2-Methylnaphthalene	0.690	0.712	0.792	0.727	0.731		0.731	5.2
Hexachlorocyclopentadiene		0.268	0.351	0.345	0.313	0.293	0.314	11.1
2,4,6-Trichlorophenol	0.313	0.355	0.425	0.407	0.401		0.380	12.0
2,4,5-Trichlorophenol	0.347	0.382	0.462	0.442	0.436		0.414	11.5
1,1-Biphenyl	1.471	1.476	1.664	1.562	1.432		1.521	6.1
2-Chloronaphthalene	1.127	1.138	1.283	1.230	1.121		1.180	6.2
2-Nitroaniline	0.257	0.288	0.339	0.328	0.323		0.307	11.0
Bis(2-Chloroethyl)ether		1.325	1.544	1.384	1.384	1.376	1.403	5.9
Dimethylphthalate	1.387	1.428	1.596	1.446	1.393		1.450	5.9
2,6-Dinitrotoluene	0.233	0.264	0.314	0.297	0.314		0.284	12.4
Acenaphthylene	1.728	1.785	1.983	1.877	1.734		1.821	6.0
3-Nitroaniline		0.301	0.357	0.340	0.338	0.317	0.331	6.7
Acenaphthene	1.237	1.246	1.391	1.301	1.235		1.282	5.2
2,4-Dinitrophenol		0.120	0.165	0.172	0.203	0.226	0.177	22.8
4-Nitrophenol		0.188	0.217	0.214	0.207	0.202	0.206	5.6
Dibenzofuran	1.715	1.759	1.937	1.766	1.663		1.768	5.8
2,4-Dinitrotoluene	0.357	0.398	0.470	0.440	0.451		0.423	10.8
Diethylphthalate	1.364	1.414	1.587	1.401	1.409		1.435	6.1
2-Chlorophenol	1.277	1.345	1.576	1.462	1.443		1.421	8.1

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.408	1.426	1.592	1.451	1.350		1.445	6.2
4-Chlorophenyl-phenylether	0.686	0.687	0.758	0.692	0.668		0.698	4.9
4-Nitroaniline		0.320	0.374	0.351	0.317	0.265	0.325	12.6
4,6-Dinitro-2-methylphenol		0.109	0.142	0.141	0.150	0.147	0.138	12.1
N-Nitrosodiphenylamine	0.559	0.585	0.678	0.636	0.592		0.610	7.7
1,2,4,5-Tetrachlorobenzene	0.567	0.572	0.666	0.630	0.587		0.604	7.0
4-Bromophenyl-phenylether	0.193	0.208	0.247	0.226	0.227		0.220	9.2
Hexachlorobenzene	0.246	0.260	0.291	0.275	0.267		0.268	6.3
Atrazine		0.214	0.252	0.229	0.218	0.191	0.221	10.2
Pentachlorophenol		0.138	0.173	0.172	0.182	0.174	0.168	10.2
2-Methylphenol		1.222	1.424	1.309	1.369	1.414	1.348	6.2
Phenanthrene	1.111	1.096	1.244	1.177	1.089		1.143	5.8
Anthracene	1.100	1.111	1.263	1.195	1.092		1.152	6.5
Carbazole		1.033	1.175	1.116	1.031	0.875	1.046	10.8
Di-n-butylphthalate	1.064	1.143	1.371	1.274	1.240		1.218	9.7
Fluoranthene	1.023	1.176	1.328	1.117	1.197		1.168	9.6
Pyrene	1.157	1.286	1.413	1.206	1.232		1.259	7.8
Butylbenzylphthalate	0.415	0.476	0.582	0.512	0.553		0.508	12.9
3,3-Dichlorobenzidine		0.385	0.465	0.436	0.389	0.325	0.400	13.4
2,2-oxybis(1-Chloropropane)		1.450	1.625	1.435	1.440	1.407	1.471	5.9
Benzo(a)anthracene	1.250	1.267	1.440	1.342	1.244		1.309	6.4
Chrysene	1.197	1.194	1.354	1.249	1.152		1.229	6.3
Bis(2-ethylhexyl)phthalate	0.671	0.709	0.861	0.772	0.796		0.762	9.8
Di-n-octyl phthalate		1.058	1.299	1.148	1.237	1.096	1.168	8.5
Benzo(b)fluoranthene	1.084	1.130	1.305	1.220	1.207		1.190	7.2
Benzo(k)fluoranthene	1.122	1.137	1.326	1.234	1.219		1.207	6.8
Benzo(a)pyrene	1.029	1.063	1.240	1.170	1.122		1.125	7.5
Indeno(1,2,3-cd)pyrene	1.384	1.340	1.639	1.578	1.495		1.487	8.5
Dibenzo(a,h)anthracene	1.124	1.092	1.333	1.281	1.208		1.208	8.5
Benzo(g,h,i)perylene	1.086	1.048	1.263	1.227	1.148		1.154	7.9
Acetophenone		2.097	2.330	2.085	2.190	2.141	2.169	4.6
2,3,4,6-Tetrachlorophenol	0.284	0.325	0.377	0.355	0.362		0.340	10.8
1,4-Dioxane-d8	0.494	0.475	0.559	0.523	0.460		0.502	7.8
Pyridine-d5		1.278	1.593	1.493	1.436	1.422	1.444	8.0
Phenol-d5		1.578	1.888	1.740	1.799	1.867	1.775	7.0

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.940	1.074	0.969	0.959	0.945	0.977	5.6
2-Chlorophenol-d4	1.207	1.259	1.525	1.409	1.410		1.362	9.4
4-Methylphenol-d8		1.250	1.487	1.345	1.427	1.497	1.401	7.4
Nitrobenzene-d5	0.141	0.149	0.179	0.171	0.168		0.161	9.9
2-Nitrophenol-d4	0.136	0.151	0.188	0.181	0.187		0.169	14.0
2,4-Dichlorophenol-d3	0.254	0.283	0.340	0.318	0.321		0.303	11.4
4-Chloroaniline-d4		0.438	0.503	0.458	0.462	0.456	0.463	5.2
4-Methylphenol		1.367	1.590	1.440	1.510	1.559	1.493	6.1
Dimethylphthalate-d6	1.371	1.438	1.585	1.440	1.412		1.449	5.6
Acenaphthylene-d8	1.511	1.633	1.861	1.743	1.657		1.681	7.8
4-Nitrophenol-d4		0.253	0.310	0.303	0.307	0.310	0.297	8.3
Fluorene-d10	1.163	1.215	1.357	1.233	1.189		1.231	6.1
4,6-Dinitro-2-methylphenol-		0.096	0.128	0.128	0.140	0.139	0.126	14.1
Anthracene-d10	0.905	0.937	1.084	1.010	0.944		0.976	7.3
Pyrene-d10	0.868	1.011	1.137	0.965	1.028		1.002	9.8
Benzo(a)pyrene-d12	0.934	0.960	1.144	1.083	1.064		1.037	8.5
N-Nitroso-di-n-propylamine	0.919	1.012	1.119	0.988	1.047		1.017	7.3

All other compounds must meet a minimum RRF of 0.010.