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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q3279

Instrument ID: BNA_N Calibration Date(s): 10/17/2025 10/17/2025

Calibration Time(s): 09:55 13:12

LAB FILE ID: RRFAL1 = BN038090.D RRFAL2 = BN038091.D RRFAL3 = BN038092.D
RRFAL4 = BN038093.D RRFAL5 = BN038094.D RRFAL6 = BN038095.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.509	0.497	0.522	0.514	0.494		0.507	2.3
Benzaldehyde		1.085	1.078	1.012	0.652	0.391	0.843	36.7
Hexachloroethane	0.586	0.593	0.619	0.621	0.614		0.607	2.7
Nitrobenzene	0.338	0.354	0.384	0.391	0.385		0.371	6.3
Isophorone	0.614	0.655	0.697	0.717	0.710		0.679	6.4
2-Nitrophenol	0.151	0.161	0.184	0.198	0.204		0.180	12.7
2,4-Dimethylphenol	0.332	0.346	0.375	0.382	0.381		0.363	6.3
Bis(2-Chloroethoxy)methane	0.418	0.437	0.455	0.455	0.446		0.442	3.5
2,4-Dichlorophenol	0.277	0.292	0.319	0.325	0.329		0.309	7.3
Naphthalene	1.079	1.099	1.161	1.145	1.119		1.121	3.0
4-Chloroaniline		0.401	0.437	0.450	0.456	0.460	0.441	5.4
Hexachlorobutadiene	0.191	0.195	0.208	0.211	0.210		0.203	4.7
Phenol		1.556	1.645	1.702	1.727	1.778	1.682	5.0
Caprolactam		0.081	0.090	0.096	0.101	0.108	0.095	10.9
4-Chloro-3-methylphenol	0.271	0.297	0.320	0.332	0.337		0.311	8.9
2-Methylnaphthalene	0.731	0.742	0.795	0.797	0.781		0.769	4.0
Hexachlorocyclopentadiene		0.380	0.429	0.459	0.455	0.487	0.442	9.1
2,4,6-Trichlorophenol	0.326	0.353	0.383	0.415	0.413		0.378	10.2
2,4,5-Trichlorophenol	0.377	0.389	0.426	0.463	0.454		0.422	9.0
1,1-Biphenyl	1.527	1.556	1.635	1.670	1.573		1.592	3.7
2-Chloronaphthalene	1.169	1.190	1.242	1.285	1.235		1.224	3.7
2-Nitroaniline	0.247	0.287	0.321	0.350	0.356		0.312	14.6
Bis(2-Chloroethyl)ether		1.345	1.403	1.413	1.387	1.390	1.388	1.9
Dimethylphthalate	1.354	1.446	1.474	1.512	1.491		1.455	4.2
2,6-Dinitrotoluene	0.208	0.245	0.280	0.305	0.306		0.269	15.6
Acenaphthylene	1.860	1.993	2.069	2.080	2.048		2.010	4.5
3-Nitroaniline		0.275	0.308	0.336	0.333	0.328	0.316	8.0
Acenaphthene	1.248	1.294	1.342	1.343	1.307		1.307	3.0
2,4-Dinitrophenol		0.115	0.129	0.163	0.189	0.220	0.163	26.3
4-Nitrophenol		0.194	0.210	0.221	0.224	0.232	0.216	6.8
Dibenzofuran	1.730	1.824	1.832	1.833	1.779		1.800	2.5
2,4-Dinitrotoluene	0.313	0.367	0.403	0.443	0.450		0.395	14.4
Diethylphthalate	1.330	1.432	1.458	1.506	1.465		1.438	4.6
2-Chlorophenol	1.266	1.366	1.418	1.481	1.490		1.404	6.6

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	1.407	1.471	1.467	1.507	1.419		1.454	2.8
4-Chlorophenyl-phenylether	0.658	0.689	0.717	0.741	0.707		0.702	4.4
4-Nitroaniline		0.284	0.316	0.336	0.305	0.282	0.304	7.4
4,6-Dinitro-2-methylphenol		0.106	0.125	0.141	0.147	0.157	0.135	14.8
N-Nitrosodiphenylamine	0.616	0.640	0.691	0.713	0.675		0.667	5.8
1,2,4,5-Tetrachlorobenzene	0.572	0.591	0.615	0.639	0.631		0.610	4.6
4-Bromophenyl-phenylether	0.217	0.220	0.237	0.256	0.254		0.237	7.7
Hexachlorobenzene	0.284	0.286	0.297	0.308	0.295		0.294	3.3
Atrazine		0.204	0.227	0.240	0.231	0.238	0.228	6.2
Pentachlorophenol		0.153	0.168	0.191	0.189	0.207	0.182	11.7
2-Methylphenol		1.166	1.270	1.317	1.311	1.368	1.286	5.9
Phenanthrene	1.172	1.196	1.223	1.260	1.184		1.207	2.9
Anthracene	1.150	1.201	1.257	1.284	1.204		1.219	4.3
Carbazole		1.017	1.104	1.128	1.075	1.072	1.079	3.9
Di-n-butylphthalate	1.052	1.206	1.314	1.401	1.382		1.271	11.3
Fluoranthene	1.221	1.296	1.317	1.409	1.330		1.314	5.1
Pyrene	1.326	1.354	1.427	1.422	1.373		1.380	3.2
Butylbenzylphthalate	0.410	0.477	0.539	0.610	0.628		0.533	17.1
3,3-Dichlorobenzidine		0.326	0.390	0.402	0.336	0.315	0.354	11.2
2,2-oxybis(1-Chloropropane)		1.960	1.997	2.021	1.978	1.966	1.985	1.3
Benzo(a)anthracene	1.221	1.325	1.325	1.382	1.372		1.325	4.8
Chrysene	1.166	1.258	1.265	1.305	1.287		1.256	4.3
Bis(2-ethylhexyl)phthalate	0.602	0.736	0.819	0.921	0.943		0.804	17.4
Di-n-octyl phthalate		1.061	1.237	1.458	1.588	1.519	1.373	15.9
Benzo(b)fluoranthene	1.127	1.228	1.316	1.353	1.392		1.283	8.3
Benzo(k)fluoranthene	1.141	1.237	1.344	1.369	1.442		1.307	9.0
Benzo(a)pyrene	1.015	1.117	1.232	1.285	1.323		1.194	10.6
Indeno(1,2,3-cd)pyrene	1.274	1.422	1.558	1.667	1.748		1.534	12.4
Dibenzo(a,h)anthracene	1.063	1.176	1.292	1.365	1.411		1.261	11.3
Benzo(g,h,i)perylene	1.027	1.154	1.251	1.319	1.373		1.225	11.2
Acetophenone		2.108	2.176	2.195	2.157	2.162	2.159	1.5
2,3,4,6-Tetrachlorophenol	0.283	0.315	0.335	0.366	0.362		0.332	10.3
1,4-Dioxane-d8	0.490	0.497	0.488	0.488	0.480		0.489	1.2
Pyridine-d5		1.202	1.266	1.290	1.291	1.333	1.277	3.8
Phenol-d5		1.445	1.560	1.652	1.644	1.743	1.609	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		1.006	1.028	1.025	1.016	1.016	1.018	0.9
2-Chlorophenol-d4	1.166	1.266	1.355	1.415	1.416		1.324	8.1
4-Methylphenol-d8		1.204	1.315	1.367	1.369	1.414	1.334	6.1
Nitrobenzene-d5	0.135	0.145	0.159	0.169	0.171		0.156	9.9
2-Nitrophenol-d4	0.125	0.143	0.161	0.179	0.185		0.159	15.7
2,4-Dichlorophenol-d3	0.265	0.284	0.312	0.323	0.328		0.302	8.9
4-Chloroaniline-d4		0.388	0.428	0.438	0.437	0.464	0.431	6.4
4-Methylphenol		1.295	1.401	1.427	1.413	1.469	1.401	4.6
Dimethylphthalate-d6	1.366	1.423	1.447	1.496	1.475		1.442	3.5
Acenaphthylene-d8	1.533	1.649	1.754	1.795	1.759		1.698	6.3
4-Nitrophenol-d4		0.240	0.268	0.290	0.298	0.315	0.282	10.4
Fluorene-d10	1.161	1.215	1.237	1.295	1.255		1.233	4.0
4,6-Dinitro-2-methylphenol-		0.092	0.111	0.131	0.139	0.151	0.125	18.7
Anthracene-d10	0.959	0.953	1.036	1.046	1.016		1.002	4.3
Pyrene-d10	0.984	1.028	1.089	1.152	1.125		1.076	6.4
Benzo(a)pyrene-d12	0.871	0.972	1.089	1.156	1.191		1.056	12.6
N-Nitroso-di-n-propylamine	0.946	1.012	1.054	1.088	1.052		1.030	5.3

All other compounds must meet a minimum RRF of 0.010.