284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CORE02

Lab Code: ACE SDG No.: Q2994

Instrument ID: BNA_G Calibration Date(s): 08/28/2025 08/28/2025

Calibration Time(s): 10:51 16:16

LAB FILE ID: RRF2.5 = BG064218.D RRF005 = BG064219.D RRF010 = BG064220.D
RRF020 = BG064221.D RRF040 = BG064222.D RRF050 = BG064223.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.126	1.094	1.155	1.104	1.075	1.115	2.4
Benzaldehyde			1.181	1.115	1.375	1.193	1.260	11.0
Phenol-d6		1.520	1.484	1.594	1.515	1.522	1.532	2.3
Phenol		1.590	1.627	1.750	1.669	1.739	1.689	3.7
bis(2-Chloroethyl)ether		1.232	1.263	1.323	1.281	1.255	1.269	2.2
2-Chlorophenol		1.318	1.287	1.381	1.418	1.360	1.362	3.4
2-Methylphenol		1.188	1.243	1.349	1.261	1.218	1.258	4.3
2,2-oxybis(1-Chloropropane)		2.923	2.920	2.979	2.897	2.826	2.897	2.1
Acetophenone		0.533	0.485	0.522	0.502	0.496	0.506	3.4
3+4-Methylphenols			1.734	1.765	1.702	1.750	1.749	1.6
n-Nitroso-di-n-propylamine	1.008	1.162	1.160	1.239	1.203	1.211	1.172	6.2
Nitrobenzene-d5		0.341	0.340	0.370	0.365	0.357	0.359	3.8
Hexachloroethane		0.555	0.578	0.574	0.583	0.572	0.571	1.6
Nitrobenzene		0.354	0.348	0.394	0.388	0.377	0.375	4.7
Isophorone		0.749	0.723	0.787	0.748	0.733	0.745	3.0
2-Nitrophenol		0.133	0.146	0.169	0.171	0.167	0.162	9.9
2,4-Dimethylphenol		0.275	0.271	0.300	0.297	0.276	0.284	4.0
bis(2-Chloroethoxy)methane		0.396	0.401	0.417	0.414	0.390	0.402	2.6
2,4-Dichlorophenol		0.289	0.278	0.319	0.310	0.299	0.300	4.7
Naphthalene		1.104	1.012	1.077	1.036	1.004	1.037	4.0
4-Chloroaniline		0.369	0.379	0.414	0.421	0.411	0.402	5.1
Hexachlorobutadiene		0.242	0.236	0.236	0.237	0.224	0.234	2.9
Caprolactam			0.108	0.129	0.123	0.112	0.116	7.1
4-Chloro-3-methylphenol		0.380	0.382	0.402	0.395	0.386	0.389	2.2
2-Methylnaphthalene		0.768	0.748	0.831	0.788	0.757	0.771	4.1
Hexachlorocyclopentadiene			0.221	0.256	0.275	0.290	0.274	11.6
2,4,6-Trichlorophenol		0.364	0.362	0.400	0.396	0.384	0.386	4.2
2-Fluorobiphenyl		1.364	1.286	1.358	1.328	1.288	1.310	3.3
2,4,5-Trichlorophenol		0.387	0.386	0.437	0.433	0.426	0.418	5.3
1,1-Biphenyl		1.459	1.412	1.488	1.494	1.449	1.457	2.1
2-Chloronaphthalene		1.090	1.059	1.113	1.113	1.096	1.095	1.9
2-Nitroaniline		0.303	0.329	0.372	0.410	0.394	0.373	11.1
Dimethylphthalate		1.672	1.476	1.569	1.555	1.462	1.514	5.9
Acenaphthylene		1.656	1.528	1.675	1.675	1.607	1.619	3.4

All other compounds must meet a minimum RRF of 0.010.

Alliance TECHNICAL GROUP
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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.238	0.269	0.301	0.322	0.300	0.293	10.0
3-Nitroaniline		0.275	0.279	0.316	0.331	0.314	0.307	6.9
Acenaphthene		1.169	1.120	1.175	1.178	1.129	1.142	2.8
2,4-Dinitrophenol			0.096	0.137	0.178	0.184	0.163	23.3
4-Nitrophenol			0.199	0.250	0.286	0.258	0.252	11.5
Dibenzofuran		1.913	1.756	1.840	1.833	1.762	1.797	3.7
2,4-Dinitrotoluene		0.396	0.398	0.462	0.484	0.450	0.443	7.6
Diethylphthalate		1.830	1.577	1.665	1.688	1.536	1.620	7.1
4-Chlorophenyl-phenylether		0.781	0.717	0.759	0.755	0.720	0.734	4.2
Fluorene		1.567	1.478	1.549	1.529	1.416	1.473	5.3
4-Nitroaniline		0.267	0.275	0.311	0.351	0.332	0.313	9.9
4,6-Dinitro-2-methylphenol			0.085	0.107	0.118	0.121	0.115	14.4
n-Nitrosodiphenylamine		0.553	0.518	0.571	0.562	0.542	0.550	3.2
2,4,6-Tribromophenol		0.281	0.256	0.271	0.276	0.261	0.265	4.2
4-Bromophenyl-phenylether		0.195	0.213	0.218	0.215	0.212	0.212	3.8
Hexachlorobenzene		0.241	0.232	0.244	0.226	0.231	0.236	2.8
Atrazine		0.240	0.230	0.231	0.240	0.224	0.230	3.4
Pentachlorophenol			0.110	0.135	0.153	0.148	0.143	12.6
Phenanthrene		1.103	1.032	1.090	1.084	1.020	1.055	3.4
Anthracene		1.124	1.053	1.092	1.111	1.033	1.073	3.5
Carbazole		0.986	0.908	0.960	1.002	0.917	0.945	4.0
Di-n-butylphthalate		1.196	1.089	1.146	1.211	1.096	1.136	4.5
Fluoranthene		1.340	1.211	1.269	1.304	1.178	1.240	5.2
Pyrene		1.292	1.236	1.286	1.303	1.216	1.260	2.9
Terphenyl-d14		1.009	0.974	1.002	0.981	0.918	0.959	4.7
Butylbenzylphthalate		0.449	0.440	0.492	0.494	0.474	0.475	4.7
3,3-Dichlorobenzidine			0.401	0.440	0.429	0.410	0.417	3.7
Benzo(a)anthracene		1.323	1.238	1.312	1.296	1.248	1.280	2.7
Chrysene		1.277	1.197	1.254	1.248	1.204	1.228	2.7
Bis(2-ethylhexyl)phthalate		0.713	0.681	0.719	0.732	0.713	0.714	2.5
Di-n-octyl phthalate			1.160	1.266	1.263	1.228	1.243	3.9
Benzo(b)fluoranthene		1.079	1.081	1.145	1.176	1.104	1.129	3.6
Benzo(k)fluoranthene		1.161	1.127	1.178	1.141	1.131	1.150	1.9
Benzo(a)pyrene		1.019	0.978	1.076	1.084	1.047	1.050	3.8
Indeno(1,2,3-cd)pyrene		1.314	1.302	1.384	1.399	1.348	1.366	3.4

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.044	1.032	1.114	1.135	1.087	1.097	4.0
Benzo(g,h,i)perylene		1.067	1.029	1.070	1.083	1.042	1.067	2.3
1,2,4,5-Tetrachlorobenzene		0.554	0.556	0.597	0.582	0.582	0.577	2.9
1,4-Dioxane		0.574	0.524	0.479	0.387	0.430	0.465	14.0
2,3,4,6-Tetrachlorophenol		0.392	0.378	0.419	0.419	0.413	0.402	3.9

All other compounds must meet a minimum RRF of 0.010.