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: AECO02

Lab Code: ACE SDG No.: Q3363

Instrument ID: BNA_G Calibration Date(s): 10/02/2025 10/02/2025

Calibration Time(s): 09:01 15:49

LAB FILE ID: RRF2.5 = BG064473.D RRF005 = BG064474.D RRF020 = BG064476.D
RRF040 = BG064477.D RRF050 = BG064478.D RRF060 = BG064479.D

COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
2-Fluorophenol		1.066	1.053	1.195	1.071	1.108	1.081	5.3
Benzaldehyde			1.039	1.527	1.152	1.548	1.290	18.7
Phenol-d6		1.395	1.446	1.631	1.434	1.496	1.452	6.1
Phenol		1.518	1.530	1.683	1.517	1.583	1.532	5.7
bis(2-Chloroethyl)ether		1.117	1.002	1.134	1.000	1.064	1.038	6.6
2-Chlorophenol		1.387	1.312	1.455	1.264	1.336	1.327	5.5
2-Methylphenol		1.105	1.087	1.215	1.076	1.143	1.109	4.8
2,2-oxybis(1-Chloropropane)		1.720	1.657	1.804	1.650	1.708	1.672	4.8
Acetophenone		0.476	0.477	0.516	0.491	0.495	0.484	4.2
3+4-Methylphenols			1.510	1.700	1.492	1.622	1.548	5.9
n-Nitroso-di-n-propylamine	0.813	1.008	1.006	1.096	0.959	1.048	0.971	9.1
Nitrobenzene-d5		0.360	0.378	0.396	0.369	0.381	0.372	3.8
Hexachloroethane		0.586	0.534	0.604	0.562	0.566	0.575	5.9
Nitrobenzene		0.403	0.352	0.395	0.364	0.377	0.371	5.7
Isophorone		0.672	0.674	0.721	0.660	0.686	0.674	3.6
2-Nitrophenol		0.197	0.181	0.192	0.185	0.188	0.185	4.9
2,4-Dimethylphenol		0.277	0.279	0.299	0.285	0.298	0.282	5.0
bis(2-Chloroethoxy)methane		0.320	0.361	0.375	0.336	0.352	0.343	5.9
2,4-Dichlorophenol		0.323	0.321	0.343	0.322	0.336	0.326	3.8
Naphthalene		1.062	1.013	1.107	0.995	1.041	1.030	4.3
4-Chloroaniline		0.392	0.373	0.417	0.388	0.406	0.395	3.5
Hexachlorobutadiene		0.331	0.308	0.316	0.296	0.300	0.304	4.9
Caprolactam			0.120	0.115	0.111	0.110	0.112	4.4
4-Chloro-3-methylphenol		0.395	0.392	0.418	0.390	0.405	0.397	3.0
2-Methylnaphthalene		0.783	0.790	0.843	0.778	0.799	0.791	3.2
Hexachlorocyclopentadiene			0.296	0.363	0.356	0.378	0.338	12.0
2,4,6-Trichlorophenol		0.391	0.396	0.445	0.416	0.436	0.413	5.3
2-Fluorobiphenyl		1.355	1.346	1.434	1.325	1.389	1.357	3.1
2,4,5-Trichlorophenol		0.451	0.430	0.486	0.465	0.473	0.461	3.9
1,1-Biphenyl		1.439	1.417	1.521	1.434	1.484	1.438	3.4
2-Chloronaphthalene		1.006	1.046	1.153	1.056	1.106	1.074	4.6
2-Nitroaniline		0.301	0.371	0.397	0.386	0.385	0.367	8.6
Dimethylphthalate		1.564	1.582	1.624	1.531	1.586	1.566	2.7
Acenaphthylene		1.591	1.573	1.704	1.574	1.638	1.594	3.7

All other compounds must meet a minimum RRF of 0.010.

Alliance TECHNICAL GROUP
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COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
2,6-Dinitrotoluene		0.292	0.335	0.337	0.333	0.345	0.326	5.4
3-Nitroaniline		0.279	0.300	0.319	0.315	0.303	0.301	4.5
Acenaphthene		1.108	1.086	1.159	1.106	1.138	1.108	3.0
2,4-Dinitrophenol			0.270	0.207	0.228	0.229	0.237	10.8
4-Nitrophenol			0.227	0.260	0.256	0.253	0.237	10.8
Dibenzofuran		1.837	1.800	1.909	1.821	1.872	1.829	2.8
2,4-Dinitrotoluene		0.481	0.488	0.527	0.513	0.506	0.499	3.6
Diethylphthalate		1.747	1.679	1.730	1.675	1.663	1.680	3.2
4-Chlorophenyl-phenylether		0.866	0.839	0.868	0.817	0.819	0.830	3.4
Fluorene		1.518	1.535	1.601	1.488	1.532	1.520	2.9
4-Nitroaniline		0.229	0.331	0.334	0.345	0.340	0.314	13.0
4,6-Dinitro-2-methylphenol			0.139	0.145	0.138	0.145	0.139	5.6
n-Nitrosodiphenylamine		0.540	0.534	0.569	0.508	0.541	0.534	3.6
2,4,6-Tribromophenol		0.364	0.367	0.381	0.364	0.361	0.363	2.9
4-Bromophenyl-phenylether		0.235	0.227	0.253	0.224	0.237	0.235	4.2
Hexachlorobenzene		0.256	0.272	0.288	0.260	0.280	0.269	4.4
Atrazine		0.237	0.247	0.250	0.232	0.239	0.238	4.3
Pentachlorophenol			0.146	0.169	0.166	0.170	0.157	13.7
Phenanthrene		1.072	1.055	1.111	1.002	1.050	1.046	3.6
Anthracene		1.045	1.044	1.130	1.001	1.068	1.049	3.9
Carbazole		0.883	0.904	0.987	0.877	0.921	0.907	4.2
Di-n-butylphthalate		1.096	1.105	1.189	1.076	1.131	1.107	3.7
Fluoranthene		1.269	1.272	1.330	1.192	1.253	1.250	3.8
Pyrene		1.295	1.316	1.392	1.242	1.281	1.298	4.2
Terphenyl-d14		1.067	1.069	1.123	1.030	1.044	1.057	3.6
Butylbenzylphthalate		0.437	0.464	0.497	0.447	0.479	0.460	4.8
3,3-Dichlorobenzidine			0.431	0.458	0.423	0.443	0.432	3.6
Benzo(a)anthracene		1.280	1.285	1.353	1.238	1.291	1.277	3.1
Chrysene		1.226	1.195	1.297	1.173	1.210	1.211	3.5
Bis(2-ethylhexyl)phthalate		0.605	0.640	0.692	0.641	0.670	0.649	4.3
Di-n-octyl phthalate			1.050	1.153	1.073	1.125	1.091	3.7
Benzo(b)fluoranthene		1.077	1.171	1.212	1.142	1.169	1.138	4.4
Benzo(k)fluoranthene		1.139	1.145	1.233	1.123	1.156	1.146	4.0
Benzo(a)pyrene		1.017	1.059	1.122	1.031	1.075	1.049	3.9
Indeno(1,2,3-cd)pyrene		1.368	1.378	1.493	1.387	1.431	1.392	4.0

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COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
Dibenzo(a,h)anthracene		1.047	1.121	1.190	1.115	1.151	1.113	4.6
Benzo(g,h,i)perylene		1.059	1.088	1.153	1.069	1.104	1.082	3.4
1,2,4,5-Tetrachlorobenzene		0.622	0.622	0.708	0.640	0.678	0.646	5.6
1,4-Dioxane		0.530	0.447	0.438	0.398	0.386	0.427	12.1
2,3,4,6-Tetrachlorophenol		0.438	0.475	0.505	0.475	0.494	0.470	5.2

All other compounds must meet a minimum RRF of 0.010.