284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG No.: Q3393

Instrument ID: BNA_F Calibration Date(s): 10/06/2025 10/06/2025

Calibration Time(s): 09:59 14:22

LAB FILE ID: RRF2.5 = BF143875.D RRF005 = BF143876.D RRF010 = BF143877.D
RRF020 = BF143878.D RRF040 = BF143879.D RRF050 = BF143880.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.378	1.349	1.352	1.307	1.173	1.259	9.1
Benzaldehyde			1.115	1.026	1.329	1.198	1.158	16.2
Phenol-d6		1.626	1.631	1.601	1.542	1.404	1.501	8.6
Phenol		1.934	1.814	1.889	1.841	1.756	1.795	6.3
bis(2-Chloroethyl)ether		1.487	1.457	1.467	1.446	1.308	1.386	7.2
2-Chlorophenol		1.324	1.229	1.274	1.294	1.201	1.231	5.9
2-Methylphenol		1.064	1.057	1.049	1.054	0.985	1.017	5.1
2,2-oxybis(1-Chloropropane)		3.520	3.385	3.273	3.239	3.008	3.156	8.8
Acetophenone		0.515	0.461	0.462	0.433	0.374	0.423	14.7
3+4-Methylphenols			1.401	1.342	1.266	1.068	1.179	15.6
n-Nitroso-di-n-propylamine	1.052	1.135	1.134	1.054	1.026	0.970	1.028	8.1
Nitrobenzene-d5		0.325	0.333	0.347	0.345	0.323	0.329	4.2
Hexachloroethane		0.533	0.508	0.515	0.501	0.456	0.485	8.4
Nitrobenzene		0.369	0.349	0.389	0.391	0.352	0.366	5.3
Isophorone		0.754	0.708	0.708	0.705	0.665	0.694	5.0
2-Nitrophenol		0.121	0.133	0.163	0.174	0.167	0.157	13.4
2,4-Dimethylphenol		0.287	0.288	0.292	0.295	0.271	0.282	4.1
bis(2-Chloroethoxy)methane		0.510	0.474	0.463	0.444	0.398	0.438	10.8
2,4-Dichlorophenol		0.317	0.292	0.313	0.307	0.280	0.294	6.5
Naphthalene		1.103	0.996	0.972	0.932	0.817	0.910	14.1
4-Chloroaniline		0.368	0.370	0.357	0.355	0.319	0.341	8.2
Hexachlorobutadiene		0.231	0.214	0.210	0.207	0.183	0.201	10.1
Caprolactam			0.092	0.091	0.095	0.094	0.093	1.6
4-Chloro-3-methylphenol		0.301	0.302	0.289	0.287	0.269	0.282	6.3
2-Methylnaphthalene		0.742	0.683	0.654	0.616	0.527	0.606	15.5
Hexachlorocyclopentadiene			0.182	0.216	0.257	0.246	0.229	11.8
2,4,6-Trichlorophenol		0.408	0.394	0.426	0.445	0.383	0.404	6.1
2-Fluorobiphenyl		1.568	1.424	1.335	1.224	0.984	1.260	18.0
2,4,5-Trichlorophenol		0.443	0.444	0.460	0.456	0.401	0.427	7.3
1,1-Biphenyl		1.617	1.476	1.448	1.374	1.134	1.324	15.8
2-Chloronaphthalene		1.294	1.196	1.197	1.137	0.988	1.104	12.5
2-Nitroaniline		0.293	0.322	0.371	0.392	0.354	0.349	9.4
Dimethylphthalate		1.442	1.351	1.334	1.291	1.166	1.270	9.3
Acenaphthylene		1.797	1.701	1.648	1.623	1.386	1.552	12.1

All other compounds must meet a minimum RRF of 0.010.

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Instrument ID: BNA_F Calibration Date(s): 10/06/2025 10/06/2025

Calibration Time(s): 09:59 14:22

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.201	0.204	0.245	0.262	0.250	0.236	10.1
3-Nitroaniline		0.256	0.270	0.306	0.306	0.296	0.288	6.6
Acenaphthene		1.177	1.115	1.096	1.052	0.897	1.017	12.2
2,4-Dinitrophenol			0.061	0.094	0.120	0.143	0.118	29.3
4-Nitrophenol			0.173	0.215	0.234	0.230	0.218	10.5
Dibenzofuran		1.680	1.608	1.572	1.494	1.253	1.436	14.1
2,4-Dinitrotoluene		0.252	0.284	0.341	0.365	0.335	0.320	12.3
Diethylphthalate		1.319	1.281	1.273	1.222	1.070	1.180	10.6
4-Chlorophenyl-phenylether		0.689	0.662	0.626	0.596	0.485	0.573	16.4
Fluorene		1.393	1.266	1.173	1.097	0.897	1.083	19.2
4-Nitroaniline		0.257	0.259	0.285	0.292	0.287	0.277	5.3
4,6-Dinitro-2-methylphenol			0.065	0.092	0.111	0.112	0.101	19.3
n-Nitrosodiphenylamine		0.712	0.683	0.675	0.656	0.560	0.628	11.2
2,4,6-Tribromophenol		0.194	0.192	0.210	0.207	0.198	0.199	3.5
4-Bromophenyl-phenylether		0.247	0.234	0.231	0.231	0.201	0.221	8.7
Hexachlorobenzene		0.277	0.268	0.263	0.267	0.242	0.256	6.6
Atrazine		0.197	0.206	0.213	0.195	0.184	0.190	9.4
Pentachlorophenol			0.117	0.152	0.157	0.154	0.147	10.1
Phenanthrene		1.164	1.092	1.066	0.976	0.842	0.970	14.9
Anthracene		1.161	1.097	1.057	1.025	0.854	0.980	14.4
Carbazole		1.015	0.962	0.939	0.884	0.766	0.868	13.1
Di-n-butylphthalate		1.089	1.094	1.108	1.053	0.910	1.005	10.8
Fluoranthene		1.156	1.153	1.094	1.032	0.876	1.002	14.4
Pyrene		1.838	1.663	1.769	1.863	1.541	1.667	9.9
Terphenyl-d14		1.301	1.209	1.271	1.279	1.066	1.170	10.7
Butylbenzylphthalate		0.466	0.503	0.579	0.620	0.545	0.542	9.3
3,3-Dichlorobenzidine			0.364	0.403	0.440	0.401	0.399	6.4
Benzo(a)anthracene		1.342	1.347	1.354	1.398	1.232	1.309	5.5
Chrysene		1.373	1.188	1.267	1.294	1.116	1.211	8.4
Bis(2-ethylhexyl)phthalate		0.591	0.619	0.687	0.739	0.642	0.653	7.7
Di-n-octyl phthalate			0.837	1.009	1.194	1.108	1.072	12.2
Benzo(b)fluoranthene		1.207	1.138	1.131	1.269	1.095	1.149	7.6
Benzo(k)fluoranthene		1.138	1.173	1.228	1.108	0.923	1.063	12.1
Benzo(a)pyrene		1.000	1.006	1.037	1.102	0.936	0.996	6.2
Indeno(1,2,3-cd)pyrene		1.114	1.104	1.222	1.393	1.235	1.225	8.0

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.888	0.915	1.015	1.128	0.975	0.986	7.9
Benzo(g,h,i)perylene		0.889	0.888	0.983	1.117	0.991	0.986	8.1
1,2,4,5-Tetrachlorobenzene		0.610	0.592	0.595	0.590	0.500	0.553	10.4
1,4-Dioxane		0.614	0.595	0.597	0.609	0.544	0.583	5.0
2,3,4,6-Tetrachlorophenol		0.276	0.303	0.315	0.325	0.300	0.302	5.5

All other compounds must meet a minimum RRF of 0.010.