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: ALLI03

Lab Code: ACE SDG No.: Q1872

Instrument ID: BNA_F Calibration Date(s): 07/17/2025 07/17/2025

Calibration Time(s): 11:04 14:34

LAB FILE ID: RRF2.5 = BF143140.D RRF005 = BF143141.D RRF010 = BF143142.D
RRF020 = BF143143.D RRF040 = BF143144.D RRF050 = BF143145.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine			0.776	0.799	0.810	0.851	0.801	3.7
Pyridine		1.631	1.557	1.551	1.530	1.618	1.552	3.9
2-Fluorophenol		1.385	1.313	1.319	1.231	1.284	1.264	7.0
Benzaldehyde			1.167	1.163	1.443	1.411	1.193	18.1
Aniline		2.334	2.259	2.273	2.204	2.292	2.217	4.9
Phenol-d6		1.733	1.640	1.657	1.554	1.632	1.591	6.7
Phenol		1.882	1.767	1.776	1.711	1.788	1.733	6.4
bis(2-Chloroethyl)ether		1.419	1.343	1.379	1.303	1.361	1.327	5.4
2-Chlorophenol		1.391	1.343	1.371	1.310	1.369	1.325	4.9
1,2-Dichlorobenzene		1.509	1.413	1.445	1.343	1.413	1.378	7.0
1,3-Dichlorobenzene		1.572	1.513	1.494	1.401	1.466	1.439	7.2
1,4-Dichlorobenzene		1.602	1.518	1.502	1.418	1.473	1.449	7.5
Benzyl Alcohol			1.214	1.246	1.215	1.278	1.215	3.9
2-Methylphenol		1.178	1.111	1.141	1.097	1.160	1.114	4.6
2,2-oxybis(1-Chloropropane)		2.670	2.553	2.545	2.421	2.517	2.461	6.5
Acetophenone		0.527	0.504	0.501	0.455	0.476	0.474	8.6
3+4-Methylphenols			1.467	1.469	1.341	1.402	1.351	8.9
n-Nitroso-di-n-propylamine	1.101	1.111	1.051	1.028	0.986	1.023	1.021	6.8
Nitrobenzene-d5		0.407	0.394	0.417	0.399	0.417	0.401	3.5
Hexachloroethane		0.522	0.498	0.522	0.495	0.525	0.502	4.7
Nitrobenzene		0.380	0.370	0.388	0.375	0.388	0.374	3.9
Isophorone		0.748	0.707	0.711	0.692	0.734	0.708	3.8
2-Nitrophenol		0.133	0.141	0.164	0.172	0.182	0.162	11.2
2,4-Dimethylphenol		0.356	0.340	0.341	0.324	0.338	0.331	5.7
bis(2-Chloroethoxy)methane		0.463	0.437	0.442	0.413	0.430	0.425	6.3
2,4-Dichlorophenol		0.292	0.282	0.287	0.276	0.289	0.279	4.4
1,2,4-Trichlorobenzene		0.329	0.307	0.318	0.294	0.303	0.302	6.4
Benzoic acid			0.104	0.149	0.180	0.197	0.169	21.4
Naphthalene		1.118	1.038	1.032	0.954	0.986	0.985	8.9
4-Chloroaniline		0.437	0.417	0.419	0.390	0.408	0.402	6.3
Hexachlorobutadiene		0.193	0.190	0.191	0.181	0.188	0.184	4.6
Caprolactam			0.078	0.084	0.087	0.091	0.084	5.3
4-Chloro-3-methylphenol		0.319	0.310	0.307	0.301	0.311	0.303	4.0
2-Methylnaphthalene		0.667	0.634	0.628	0.580	0.603	0.599	8.2

All other compounds must meet a minimum RRF of 0.010.

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Lab Code: ACE SDG No.: Q1872

Instrument ID: BNA_F Calibration Date(s): 07/17/2025 07/17/2025

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LAB FILE ID: RRF2.5 = BF143140.D RRF005 = BF143141.D RRF010 = BF143142.D
RRF020 = BF143143.D RRF040 = BF143144.D RRF050 = BF143145.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Hexachlorocyclopentadiene			0.337	0.373	0.373	0.404	0.376	6.1
2,4,6-Trichlorophenol		0.391	0.406	0.412	0.384	0.429	0.400	4.6
2-Fluorobiphenyl		1.761	1.644	1.547	1.358	1.414	1.462	13.6
2,4,5-Trichlorophenol		0.404	0.387	0.411	0.405	0.411	0.400	2.8
1,1-Biphenyl		1.748	1.667	1.640	1.489	1.553	1.560	8.6
2-Chloronaphthalene		1.268	1.223	1.192	1.103	1.166	1.155	7.1
2-Nitroaniline		0.305	0.333	0.372	0.377	0.396	0.362	8.9
Dimethylphthalate		1.422	1.340	1.340	1.279	1.325	1.304	6.2
Acenaphthylene		2.134	2.052	2.011	1.860	1.958	1.935	7.7
2,6-Dinitrotoluene		0.225	0.250	0.272	0.278	0.289	0.265	8.1
3-Nitroaniline		0.285	0.300	0.315	0.317	0.334	0.310	5.1
Acenaphthene		1.278	1.194	1.184	1.096	1.155	1.144	7.5
2,4-Dinitrophenol			0.051	0.081	0.104	0.116	0.098	28.0
4-Nitrophenol			0.200	0.228	0.246	0.250	0.232	7.7
Dibenzofuran		1.929	1.807	1.766	1.633	1.698	1.698	9.0
2,4-Dinitrotoluene		0.269	0.296	0.342	0.354	0.372	0.333	11.0
Diethylphthalate		1.377	1.322	1.335	1.269	1.329	1.289	5.8
4-Chlorophenyl-phenylether		0.710	0.670	0.657	0.612	0.633	0.635	7.9
Fluorene		1.480	1.402	1.322	1.212	1.257	1.274	10.8
4-Nitroaniline		0.236	0.255	0.266	0.280	0.289	0.266	6.4
4,6-Dinitro-2-methylphenol			0.054	0.087	0.097	0.110	0.094	22.9
n-Nitrosodiphenylamine		0.761	0.728	0.721	0.674	0.726	0.704	6.0
Azobenzene		1.452	1.401	1.389	1.320	1.364	1.343	6.4
2,4,6-Tribromophenol		0.200	0.202	0.212	0.210	0.218	0.207	3.5
4-Bromophenyl-phenylether		0.252	0.238	0.241	0.228	0.247	0.238	4.3
Hexachlorobenzene		0.269	0.248	0.252	0.239	0.258	0.249	4.8
Atrazine		0.184	0.187	0.198	0.196	0.208	0.194	4.3
Pentachlorophenol			0.119	0.146	0.148	0.160	0.147	9.7
Phenanthrene		1.191	1.100	1.117	1.020	1.069	1.062	8.0
Anthracene		1.184	1.136	1.134	1.038	1.095	1.083	7.1
Carbazole		1.042	0.969	0.982	0.929	0.963	0.946	6.9
Di-n-butylphthalate		1.076	1.054	1.129	1.074	1.119	1.070	4.4
Fluoranthene		1.085	0.987	1.018	0.953	0.979	0.975	6.9
Benzidine			0.758	0.844	0.953	0.697	0.771	17.5
Pyrene		1.909	1.783	1.783	1.715	1.740	1.707	8.7

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Terphenyl-d14		1.567	1.456	1.419	1.311	1.342	1.344	11.4
Butylbenzylphthalate		0.438	0.472	0.536	0.544	0.582	0.523	9.6
3,3-Dichlorobenzidine			0.437	0.495	0.429	0.476	0.446	7.6
Benzo(a)anthracene		1.374	1.367	1.381	1.282	1.422	1.339	4.9
Chrysene		1.282	1.174	1.247	1.206	1.218	1.204	4.3
Bis(2-ethylhexyl)phthalate		0.691	0.755	0.824	0.789	0.862	0.791	7.0
Di-n-octyl phthalate			1.274	1.428	1.384	1.550	1.434	6.8
Benzo(b)fluoranthene		1.231	1.136	1.287	1.147	1.352	1.222	6.3
Benzo(k)fluoranthene		1.168	1.152	1.093	1.134	1.069	1.090	7.1
Benzo(a)pyrene		1.129	1.102	1.147	1.121	1.192	1.126	3.4
Indeno(1,2,3-cd)pyrene		1.424	1.336	1.430	1.413	1.505	1.410	3.9
Dibenzo(a,h)anthracene		1.159	1.103	1.179	1.147	1.221	1.148	3.9
Benzo(g,h,i)perylene		1.100	1.047	1.140	1.109	1.196	1.110	4.4
1,2,4,5-Tetrachlorobenzene		0.638	0.598	0.601	0.550	0.582	0.577	6.9
1,4-Dioxane		0.622	0.582	0.614	0.600	0.625	0.598	4.1
2,3,4,6-Tetrachlorophenol		0.321	0.331	0.345	0.333	0.351	0.331	4.3
1-Methylnaphthalene		0.682	0.652	0.650	0.599	0.621	0.617	8.1

All other compounds must meet a minimum RRF of 0.010.