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

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2814

Instrument ID: BNA_F Calibration Date(s): 08/12/2025 08/12/2025

Calibration Time(s): 09:03 12:38

LAB FILE ID: RRF2.5 = BF143343.D RRF005 = BF143344.D RRF010 = BF143345.D
RRF020 = BF143346.D RRF040 = BF143347.D RRF050 = BF143348.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.155	1.170	1.207	1.179	1.143	1.157	3.1
Benzaldehyde			1.109	1.106	1.011	0.875	0.980	14.2
Phenol-d6		1.527	1.505	1.541	1.500	1.447	1.483	3.6
Phenol		1.823	1.791	1.843	1.783	1.721	1.757	4.6
bis(2-Chloroethyl)ether		1.357	1.304	1.333	1.306	1.252	1.295	3.3
2-Chlorophenol		1.167	1.215	1.272	1.259	1.240	1.236	3.0
2-Methylphenol		1.017	1.038	1.077	1.064	1.036	1.043	2.3
2,2-oxybis(1-Chloropropane)		2.521	2.408	2.435	2.317	2.214	2.312	6.8
Acetophenone		0.500	0.478	0.475	0.429	0.404	0.441	10.0
3+4-Methylphenols			1.331	1.373	1.288	1.227	1.262	7.0
n-Nitroso-di-n-propylamine	0.956	0.992	0.942	0.957	0.910	0.863	0.916	5.9
Nitrobenzene-d5		0.277	0.304	0.339	0.336	0.328	0.321	7.2
Hexachloroethane		0.425	0.433	0.460	0.462	0.449	0.449	3.4
Nitrobenzene		0.322	0.329	0.366	0.359	0.352	0.349	5.0
Isophorone		0.692	0.662	0.683	0.645	0.627	0.656	3.8
2-Nitrophenol		0.069	0.085	0.109	0.126	0.134	0.118	26.9
2,4-Dimethylphenol		0.259	0.261	0.288	0.279	0.275	0.274	4.2
bis(2-Chloroethoxy)methane		0.424	0.410	0.425	0.396	0.383	0.400	5.2
2,4-Dichlorophenol		0.243	0.256	0.286	0.275	0.270	0.267	5.5
Naphthalene		1.083	1.023	1.029	0.944	0.901	0.962	8.9
4-Chloroaniline		0.362	0.350	0.367	0.345	0.334	0.347	4.1
Hexachlorobutadiene		0.185	0.181	0.187	0.175	0.166	0.175	5.5
Caprolactam			0.061	0.073	0.079	0.078	0.075	9.9
4-Chloro-3-methylphenol		0.270	0.274	0.296	0.286	0.279	0.280	3.5
2-Methylnaphthalene		0.720	0.673	0.681	0.622	0.591	0.633	9.6
Hexachlorocyclopentadiene			0.088	0.130	0.167	0.172	0.158	26.7
2,4,6-Trichlorophenol		0.242	0.272	0.316	0.334	0.328	0.311	12.4
2-Fluorobiphenyl		1.444	1.332	1.285	1.132	1.060	1.179	15.1
2,4,5-Trichlorophenol		0.307	0.308	0.366	0.377	0.364	0.351	8.5
1,1-Biphenyl		1.613	1.506	1.516	1.389	1.317	1.414	9.6
2-Chloronaphthalene		1.216	1.176	1.180	1.095	1.046	1.114	7.1
2-Nitroaniline		0.188	0.223	0.279	0.309	0.321	0.284	20.2
Dimethylphthalate		1.160	1.178	1.244	1.180	1.144	1.169	3.7
Acenaphthylene		1.759	1.682	1.719	1.588	1.525	1.608	7.1

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		0.125	0.147	0.188	0.213	0.219	0.193	21.9
3-Nitroaniline		0.159	0.193	0.250	0.261	0.265	0.239	18.9
Acenaphthene		1.208	1.127	1.121	1.054	1.012	1.069	8.3
2,4-Dinitrophenol			0.030	0.046	0.066	0.073	0.065	36.5
4-Nitrophenol			0.096	0.147	0.173	0.180	0.163	22.5
Dibenzofuran		1.757	1.641	1.634	1.511	1.438	1.539	9.3
2,4-Dinitrotoluene		0.154	0.191	0.257	0.289	0.296	0.256	23.4
Diethylphthalate		1.011	1.061	1.132	1.081	1.037	1.047	4.8
4-Chlorophenyl-phenylether		0.645	0.601	0.600	0.563	0.533	0.568	8.8
Fluorene		1.381	1.288	1.251	1.142	1.091	1.175	11.6
4-Nitroaniline		0.174	0.202	0.253	0.249	0.248	0.232	13.4
4,6-Dinitro-2-methylphenol			0.036	0.054	0.071	0.077	0.069	29.8
n-Nitrosodiphenylamine		0.693	0.670	0.674	0.655	0.639	0.659	3.4
2,4,6-Tribromophenol		0.105	0.127	0.149	0.160	0.160	0.146	15.1
4-Bromophenyl-phenylether		0.232	0.222	0.232	0.231	0.227	0.229	1.6
Hexachlorobenzene		0.258	0.249	0.250	0.244	0.237	0.247	2.8
Atrazine		0.147	0.157	0.187	0.178	0.180	0.172	8.4
Pentachlorophenol			0.058	0.087	0.108	0.113	0.101	24.1
Phenanthrene		1.214	1.159	1.156	1.081	1.022	1.091	8.0
Anthracene		1.225	1.168	1.184	1.088	1.043	1.107	8.0
Carbazole		1.049	1.000	1.017	0.934	0.879	0.942	8.7
Di-n-butylphthalate		0.674	0.739	0.889	0.864	0.819	0.798	9.2
Fluoranthene		1.120	1.054	1.051	0.917	0.873	0.956	12.3
Pyrene		1.924	1.963	1.910	1.661	1.513	1.678	15.4
Terphenyl-d14		1.337	1.346	1.297	1.089	0.976	1.120	18.4
Butylbenzylphthalate		0.179	0.208	0.272	0.303	0.320	0.284	24.1
3,3-Dichlorobenzidine			0.255	0.327	0.364	0.374	0.343	13.8
Benzo(a)anthracene		1.335	1.224	1.339	1.258	1.229	1.271	4.4
Chrysene		1.270	1.249	1.199	1.175	1.163	1.185	5.1
Bis(2-ethylhexyl)phthalate		0.228	0.277	0.348	0.441	0.478	0.403	29.8
Di-n-octyl phthalate			0.545	0.692	0.888	0.945	0.860	23.5
Benzo(b)fluoranthene		1.172	1.027	1.092	1.118	1.046	1.094	5.0
Benzo(k)fluoranthene		1.064	1.080	1.158	1.036	1.053	1.063	4.4
Benzo(a)pyrene		1.049	1.011	1.060	1.033	1.012	1.030	2.0
Indeno(1,2,3-cd)pyrene		1.401	1.455	1.479	1.449	1.392	1.433	2.2

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.129	1.162	1.184	1.170	1.119	1.145	2.8
Benzo(g,h,i)perylene		1.108	1.192	1.188	1.169	1.124	1.153	2.9
1,2,4,5-Tetrachlorobenzene		0.588	0.566	0.575	0.542	0.524	0.547	5.7
1,4-Dioxane		0.606	0.582	0.614	0.596	0.592	0.598	2.1
2,3,4,6-Tetrachlorophenol		0.172	0.188	0.236	0.255	0.258	0.236	17.3

All other compounds must meet a minimum RRF of 0.010.