Alliance TECHNICAL GROUP
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: SCAL01

Lab Code: ACE SDG No.: Q3150

Instrument ID: BNA_P Calibration Date(s): 09/11/2025 09/11/2025

Calibration Time(s): 08:56 15:20

LAB FILE ID: RRF2.5 = BP025725.D RRF005 = BP025726.D RRF010 = BP025727.D
RRF020 = BP025728.D RRF040 = BP025729.D RRF060 = BP025731.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
2-Fluorophenol		1.139	1.123	1.320	1.362	1.238	1.240	7.2
Benzaldehyde			1.037	0.748	0.875	1.077	0.987	16.2
Phenol-d6		1.391	1.460	1.793	1.861	1.658	1.648	10.3
Phenol		1.512	1.525	1.848	1.964	1.751	1.737	9.6
bis(2-Chloroethyl)ether		1.313	1.222	1.508	1.555	1.368	1.396	8.2
2-Chlorophenol		1.229	1.196	1.448	1.508	1.366	1.360	8.3
2-Methylphenol		0.973	1.030	1.268	1.319	1.185	1.171	10.7
2,2-oxybis(1-Chloropropane)		2.241	2.133	2.476	2.493	2.164	2.283	6.5
Acetophenone		0.474	0.488	0.583	0.588	0.538	0.534	8.2
3+4-Methylphenols			1.352	1.721	1.819	1.625	1.640	9.6
n-Nitroso-di-n-propylamine	0.961	1.032	1.047	1.300	1.320	1.151	1.149	11.3
Nitrobenzene-d5		0.416	0.410	0.490	0.496	0.455	0.453	7.4
Hexachloroethane		0.603	0.557	0.633	0.647	0.588	0.602	5.2
Nitrobenzene		0.366	0.363	0.440	0.449	0.411	0.407	8.2
Isophorone		0.737	0.726	0.862	0.860	0.791	0.797	6.8
2-Nitrophenol		0.141	0.154	0.190	0.203	0.192	0.181	12.9
2,4-Dimethylphenol		0.263	0.286	0.345	0.356	0.320	0.317	10.2
bis(2-Chloroethoxy)methane		0.414	0.423	0.510	0.498	0.452	0.461	7.8
2,4-Dichlorophenol		0.267	0.270	0.339	0.349	0.327	0.316	10.7
Naphthalene		1.072	1.028	1.164	1.147	1.044	1.078	5.4
4-Chloroaniline		0.343	0.391	0.489	0.510	0.465	0.449	13.3
Hexachlorobutadiene		0.226	0.219	0.247	0.242	0.226	0.229	5.0
Caprolactam			0.105	0.127	0.132	0.120	0.122	7.5
4-Chloro-3-methylphenol		0.328	0.338	0.406	0.414	0.377	0.377	8.7
2-Methylnaphthalene		0.662	0.639	0.758	0.747	0.677	0.693	6.5
Hexachlorocyclopentadiene			0.225	0.326	0.380	0.347	0.330	16.4
2,4,6-Trichlorophenol		0.340	0.354	0.435	0.445	0.409	0.398	9.9
2-Fluorobiphenyl		1.563	1.470	1.655	1.596	1.434	1.502	7.5
2,4,5-Trichlorophenol		0.375	0.389	0.482	0.501	0.457	0.443	10.4
1,1-Biphenyl		1.458	1.375	1.599	1.587	1.425	1.468	6.4
2-Chloronaphthalene		1.140	1.090	1.252	1.240	1.132	1.156	6.0
2-Nitroaniline		0.309	0.332	0.416	0.439	0.402	0.385	12.1
Dimethylphthalate		1.545	1.433	1.682	1.659	1.446	1.527	7.0
Acenaphthylene		1.877	1.791	2.095	2.058	1.871	1.915	6.1

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
2,6-Dinitrotoluene		0.286	0.291	0.353	0.358	0.330	0.324	8.6
3-Nitroaniline		0.266	0.282	0.370	0.394	0.357	0.340	13.9
Acenaphthene		1.129	1.052	1.207	1.195	1.055	1.104	6.8
2,4-Dinitrophenol			0.108	0.173	0.209	0.201	0.183	21.4
4-Nitrophenol			0.148	0.255	0.307	0.280	0.258	22.0
Dibenzofuran		1.834	1.754	1.967	1.922	1.719	1.800	6.4
2,4-Dinitrotoluene		0.382	0.398	0.501	0.521	0.471	0.460	11.3
Diethylphthalate		1.573	1.472	1.697	1.644	1.473	1.549	6.0
4-Chlorophenyl-phenylether		0.755	0.699	0.791	0.769	0.681	0.721	7.1
Fluorene		1.485	1.382	1.579	1.546	1.350	1.431	7.5
4-Nitroaniline		0.258	0.281	0.381	0.404	0.376	0.349	15.9
4,6-Dinitro-2-methylphenol			0.093	0.135	0.151	0.137	0.133	15.1
n-Nitrosodiphenylamine		0.597	0.573	0.681	0.664	0.594	0.612	7.9
2,4,6-Tribromophenol		0.227	0.227	0.270	0.277	0.249	0.249	7.7
4-Bromophenyl-phenylether		0.213	0.202	0.240	0.238	0.213	0.220	6.8
Hexachlorobenzene		0.243	0.230	0.266	0.261	0.236	0.245	5.8
Atrazine		0.215	0.210	0.260	0.260	0.227	0.234	8.5
Pentachlorophenol			0.132	0.168	0.179	0.161	0.162	9.8
Phenanthrene		1.163	1.095	1.247	1.213	1.065	1.135	7.0
Anthracene		1.120	1.086	1.280	1.237	1.107	1.151	7.4
Carbazole		0.994	0.998	1.185	1.173	1.038	1.070	7.8
Di-n-butylphthalate		1.232	1.213	1.468	1.438	1.281	1.313	8.0
Fluoranthene		1.387	1.294	1.511	1.447	1.293	1.361	7.0
Pyrene		1.307	1.243	1.444	1.430	1.308	1.335	5.7
Terphenyl-d14		1.133	1.093	1.198	1.177	1.054	1.112	5.8
Butylbenzylphthalate		0.519	0.511	0.636	0.647	0.587	0.585	9.0
3,3-Dichlorobenzidine			0.425	0.499	0.518	0.468	0.473	7.4
Benzo(a)anthracene		1.346	1.302	1.471	1.453	1.330	1.369	5.0
Chrysene		1.316	1.253	1.397	1.375	1.268	1.305	5.1
Bis(2-ethylhexyl)phthalate		0.800	0.781	0.930	0.945	0.857	0.856	7.3
Di-n-octyl phthalate			1.315	1.604	1.670	1.513	1.523	7.9
Benzo(b)fluoranthene		1.124	1.145	1.304	1.336	1.216	1.223	6.5
Benzo(k)fluoranthene		1.228	1.170	1.367	1.341	1.220	1.248	6.5
Benzo(a)pyrene		1.131	1.100	1.276	1.307	1.208	1.198	6.5
Indeno(1,2,3-cd)pyrene		1.340	1.334	1.533	1.596	1.485	1.454	7.0

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
Dibenzo(a,h)anthracene		1.116	1.075	1.254	1.297	1.208	1.190	6.8
Benzo(g,h,i)perylene		1.090	1.078	1.225	1.267	1.197	1.171	6.2
1,2,4,5-Tetrachlorobenzene		0.590	0.561	0.653	0.660	0.604	0.606	6.3
1,4-Dioxane		0.565	0.497	0.558	0.546	0.493	0.520	7.0
2,3,4,6-Tetrachlorophenol		0.362	0.361	0.434	0.446	0.393	0.399	8.2

All other compounds must meet a minimum RRF of 0.010.