

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG No.: Q3176

Instrument ID: BNA_F

Calibration Date(s): 09/23/2025 09/23/2025

Calibration Time(s): 10:28 15:27

LAB FILE ID:		RRF2.5 = BF143791.D		RRF005 = BF143792.D		RRF010 = BF143793.D		
		RRF020 = BF143794.D		RRF040 = BF143795.D		RRF050 = BF143796.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol			1.258	1.326	1.329	1.156	1.231	7.1
Benzaldehyde			1.066	0.952	1.467	1.327	1.246	18.8
Phenol-d6			1.507	1.530	1.523	1.336	1.422	7.9
Phenol		1.762	1.708	1.737	1.748	1.534	1.653	7.1
bis(2-Chloroethyl)ether		1.387	1.321	1.347	1.367	1.223	1.296	6.5
2-Chlorophenol		1.304	1.254	1.329	1.335	1.209	1.260	5.5
2-Methylphenol		1.033	0.992	1.009	1.021	0.938	0.976	5.5
2,2-oxybis(1-Chloropropane)		3.320	3.136	3.224	3.231	2.896	3.073	6.9
Acetophenone		0.500	0.466	0.468	0.463	0.401	0.439	10.5
3+4-Methylphenols			1.278	1.256	1.271	1.137	1.185	8.6
n-Nitroso-di-n-propylamine	1.078	0.991	0.932	0.926	0.914	0.842	0.915	10.3
Nitrobenzene-d5			0.309	0.339	0.353	0.322	0.327	5.4
Hexachloroethane		0.555	0.512	0.543	0.543	0.482	0.514	6.6
Nitrobenzene		0.362	0.354	0.369	0.389	0.357	0.362	4.0
Isophorone		0.667	0.636	0.649	0.673	0.624	0.637	5.1
2-Nitrophenol		0.089	0.104	0.125	0.148	0.150	0.132	20.1
2,4-Dimethylphenol		0.292	0.280	0.291	0.303	0.280	0.285	4.6
bis(2-Chloroethoxy)methane		0.455	0.430	0.430	0.437	0.393	0.414	8.0
2,4-Dichlorophenol		0.277	0.286	0.288	0.298	0.273	0.280	4.4
Naphthalene		1.058	1.021	1.020	1.003	0.887	0.957	9.3
4-Chloroaniline		0.360	0.347	0.353	0.355	0.323	0.336	7.0
Hexachlorobutadiene		0.227	0.219	0.223	0.233	0.206	0.217	5.6
Caprolactam			0.066	0.069	0.075	0.074	0.072	5.5
4-Chloro-3-methylphenol		0.271	0.260	0.271	0.276	0.261	0.263	4.8
2-Methylnaphthalene		0.685	0.650	0.643	0.635	0.568	0.611	9.5
Hexachlorocyclopentadiene			0.336	0.371	0.418	0.382	0.383	7.3
2,4,6-Trichlorophenol		0.344	0.358	0.386	0.422	0.379	0.378	6.7
2-Fluorobiphenyl			1.476	1.460	1.351	1.154	1.282	13.1
2,4,5-Trichlorophenol		0.371	0.391	0.419	0.423	0.380	0.395	5.1
1,1-Biphenyl		1.608	1.541	1.564	1.495	1.331	1.448	9.4
2-Chloronaphthalene		1.283	1.223	1.243	1.215	1.077	1.165	8.4
2-Nitroaniline		0.241	0.305	0.355	0.400	0.380	0.352	16.8
Dimethylphthalate		1.275	1.233	1.252	1.286	1.173	1.219	4.9
Acenaphthylene		1.729	1.659	1.700	1.691	1.499	1.604	7.3

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.138	0.161	0.198	0.228	0.224	0.200	18.4
3-Nitroaniline		0.171	0.210	0.245	0.283	0.259	0.243	16.1
Acenaphthene		1.134	1.121	1.123	1.109	0.974	1.056	7.9
2,4-Dinitrophenol			0.052	0.040	0.063	0.066	0.064	25.2
4-Nitrophenol			0.197	0.169	0.208	0.193	0.196	7.4
Dibenzofuran		1.649	1.551	1.590	1.561	1.377	1.493	8.3
2,4-Dinitrotoluene		0.151	0.210	0.254	0.307	0.295	0.261	23.2
Diethylphthalate		1.158	1.170	1.174	1.211	1.100	1.141	4.4
4-Chlorophenyl-phenylether		0.621	0.592	0.601	0.590	0.528	0.566	8.1
Fluorene		1.275	1.210	1.190	1.147	1.005	1.110	11.3
4-Nitroaniline		0.162	0.204	0.228	0.264	0.242	0.228	15.3
4,6-Dinitro-2-methylphenol			0.045	0.047	0.070	0.074	0.067	26.0
n-Nitrosodiphenylamine		0.707	0.675	0.688	0.682	0.621	0.658	6.3
2,4,6-Tribromophenol			0.303	0.324	0.328	0.281	0.296	8.8
4-Bromophenyl-phenylether		0.344	0.333	0.349	0.361	0.334	0.341	3.5
Hexachlorobenzene		0.492	0.470	0.488	0.492	0.447	0.470	4.8
Atrazine		0.178	0.191	0.198	0.211	0.186	0.190	5.6
Pentachlorophenol			0.180	0.216	0.256	0.239	0.234	13.2
Phenanthrene		1.145	1.066	1.071	1.082	0.948	1.027	8.3
Anthracene		1.096	1.069	1.088	1.083	0.965	1.030	6.7
Carbazole		0.916	0.931	0.949	0.976	0.839	0.901	6.2
Di-n-butylphthalate		0.940	1.008	1.075	1.157	1.019	1.036	6.5
Fluoranthene		1.019	1.046	1.099	1.144	0.953	1.033	6.8
Pyrene		1.038	0.982	0.991	1.005	0.990	0.983	5.5
Terphenyl-d14			1.044	1.013	1.022	0.981	0.983	7.0
Butylbenzylphthalate		0.251	0.298	0.335	0.391	0.367	0.340	14.7
3,3-Dichlorobenzidine			0.426	0.465	0.497	0.459	0.465	5.1
Benzo (a) anthracene		1.109	1.081	1.083	1.148	1.040	1.074	4.6
Chrysene		1.041	0.985	0.996	1.018	0.909	0.972	5.2
Bis (2-ethylhexyl) phthalate		0.428	0.477	0.514	0.558	0.505	0.499	8.0
Di-n-octyl phthalate			0.767	0.877	1.013	0.902	0.905	9.0
Benzo (b) fluoranthene		0.987	1.004	1.029	1.104	1.002	1.019	3.9
Benzo (k) fluoranthene		1.061	1.004	1.080	1.089	0.996	1.023	6.2
Benzo (a) pyrene		0.928	0.920	0.989	1.027	0.949	0.957	4.2
Indeno (1,2,3-cd) pyrene		1.483	1.426	1.580	1.608	1.509	1.517	4.3

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.207	1.187	1.302	1.332	1.237	1.241	4.9
Benzo(g,h,i)perylene		1.134	1.116	1.234	1.279	1.200	1.196	5.0
1,2,4,5-Tetrachlorobenzene		0.657	0.634	0.636	0.628	0.559	0.604	7.4
1,4-Dioxane		0.594	0.575	0.598	0.640	0.558	0.589	4.4
2,3,4,6-Tetrachlorophenol		0.272	0.309	0.349	0.373	0.355	0.339	10.5

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