

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG No.: Q3177

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
n-Nitrosodimethylamine			0.744	0.812	0.851	0.775	0.797	4.7
Pyridine		1.585	1.522	1.624	1.724	1.535	1.590	4.4
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
Aniline		2.283	2.120	2.158	2.145	1.940	2.064	7.6
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
1,2-Dichlorobenzene		1.558	1.407	1.465	1.449	1.277	1.383	8.7
1,3-Dichlorobenzene		1.622	1.493	1.556	1.544	1.345	1.463	8.3
1,4-Dichlorobenzene		1.634	1.496	1.549	1.537	1.339	1.460	8.7
Benzyl Alcohol			1.022	1.074	1.088	1.004	1.028	5.3
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
1,2,4-Trichlorobenzene		0.314	0.288	0.304	0.309	0.275	0.291	6.5
Benzoic acid			0.124	0.091	0.140	0.148	0.137	19.3
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

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
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
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
Azobenzene		1.260	1.221	1.246	1.279	1.148	1.203	5.5
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
Benzidine			0.438	0.444	0.511	0.571	0.487	13.8
Pyrene		1.038	0.982	0.991	1.005	0.990	0.983	5.5

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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
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
1-Methylnaphthalene		0.656	0.618	0.610	0.612	0.550	0.584	9.4

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