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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG No.: Q3534

Instrument ID: BNA_F

Calibration Date(s): 11/05/2025 11/05/2025

Calibration Time(s): 12:50 16:49

LAB FILE ID:		RRF2.5 = BF144169.D			RRF005 = BF144170.D		RRF010 = BF144171.D	
		RRF020 = BF144172.D			RRF040 = BF144173.D		RRF050 = BF144174.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.332	1.303	1.316	1.315	1.157	1.278	5.6
Benzaldehyde			1.033	0.917	0.816	0.672	0.818	17.0
Phenol-d6		1.566	1.518	1.511	1.460	1.281	1.448	7.1
Phenol		1.845	1.896	1.840	1.858	1.562	1.769	7.6
bis(2-Chloroethyl)ether		1.278	1.333	1.342	1.316	1.155	1.289	5.2
2-Chlorophenol		1.242	1.309	1.292	1.281	1.152	1.253	4.6
2-Methylphenol		1.031	1.054	1.007	1.033	0.895	0.997	5.4
2,2-oxybis(1-Chloropropane)		2.408	2.470	2.496	2.418	2.147	2.374	5.5
Acetophenone		0.479	0.464	0.434	0.434	0.380	0.429	8.3
3+4-Methylphenols			1.330	1.223	1.215	1.030	1.175	9.2
n-Nitroso-di-n-propylamine	0.998	1.010	1.023	0.996	0.950	0.813	0.953	7.4
Nitrobenzene-d5		0.343	0.352	0.349	0.360	0.321	0.346	4.1
Hexachloroethane		0.512	0.513	0.532	0.532	0.467	0.515	4.9
Nitrobenzene		0.370	0.390	0.376	0.388	0.342	0.376	4.9
Isophorone		0.659	0.668	0.669	0.673	0.581	0.655	5.1
2-Nitrophenol		0.167	0.187	0.191	0.197	0.174	0.186	6.5
2,4-Dimethylphenol		0.281	0.278	0.265	0.298	0.260	0.279	5.1
bis(2-Chloroethoxy)methane		0.426	0.417	0.412	0.423	0.372	0.409	5.0
2,4-Dichlorophenol		0.334	0.342	0.330	0.331	0.289	0.322	6.2
Naphthalene		1.019	1.008	0.982	0.969	0.850	0.951	6.7
4-Chloroaniline		0.358	0.364	0.355	0.362	0.309	0.347	6.1
Hexachlorobutadiene		0.256	0.250	0.252	0.259	0.232	0.249	4.0
Caprolactam			0.094	0.093	0.092	0.075	0.088	8.1
4-Chloro-3-methylphenol		0.283	0.307	0.304	0.297	0.259	0.288	5.8
2-Methylnaphthalene		0.702	0.672	0.665	0.647	0.559	0.636	8.0
Hexachlorocyclopentadiene			0.121	0.142	0.200	0.204	0.195	27.8
2,4,6-Trichlorophenol		0.440	0.449	0.449	0.456	0.409	0.446	5.5
2-Fluorobiphenyl		1.598	1.428	1.361	1.350	1.177	1.354	10.7
2,4,5-Trichlorophenol		0.497	0.489	0.497	0.489	0.438	0.481	5.1
1,1-Biphenyl		1.535	1.446	1.425	1.408	1.239	1.396	7.5
2-Chloronaphthalene		1.303	1.216	1.206	1.204	1.068	1.191	7.1
2-Nitroaniline		0.302	0.347	0.349	0.361	0.326	0.344	6.8
Dimethylphthalate		1.437	1.343	1.359	1.345	1.168	1.325	6.7
Acenaphthylene		1.727	1.686	1.677	1.645	1.440	1.623	6.6

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
2,6-Dinitrotoluene		0.251	0.271	0.271	0.276	0.252	0.268	5.2
3-Nitroaniline		0.271	0.301	0.302	0.315	0.264	0.293	7.1
Acenaphthene		1.138	1.162	1.120	1.096	0.956	1.085	6.9
2,4-Dinitrophenol			0.202	0.166	0.140	0.133	0.162	15.0
4-Nitrophenol			0.273	0.202	0.204	0.185	0.212	14.6
Dibenzofuran		1.644	1.600	1.586	1.551	1.337	1.520	8.0
2,4-Dinitrotoluene		0.322	0.377	0.372	0.385	0.328	0.359	7.1
Diethylphthalate		1.294	1.273	1.254	1.254	1.075	1.221	6.3
4-Chlorophenyl-phenylether		0.711	0.701	0.678	0.685	0.570	0.658	7.9
Fluorene		1.295	1.223	1.197	1.180	0.997	1.156	8.9
4-Nitroaniline		0.273	0.290	0.293	0.288	0.254	0.279	5.1
4,6-Dinitro-2-methylphenol			0.147	0.138	0.130	0.120	0.136	7.0
n-Nitrosodiphenylamine		0.695	0.676	0.635	0.646	0.577	0.643	6.1
2,4,6-Tribromophenol		0.242	0.257	0.257	0.265	0.227	0.251	5.3
4-Bromophenyl-phenylether		0.264	0.260	0.255	0.263	0.228	0.255	5.2
Hexachlorobenzene		0.306	0.306	0.305	0.300	0.273	0.301	4.7
Atrazine		0.215	0.211	0.215	0.206	0.180	0.205	6.3
Pentachlorophenol			0.135	0.144	0.156	0.137	0.150	8.8
Phenanthrene		1.103	1.042	0.986	1.009	0.892	0.996	6.9
Anthracene		1.120	1.059	1.027	1.022	0.897	1.013	7.4
Carbazole		0.938	0.917	0.882	0.878	0.762	0.861	7.4
Di-n-butylphthalate		1.075	1.101	1.077	1.070	0.917	1.041	6.3
Fluoranthene		1.117	1.066	1.053	1.054	0.910	1.029	6.8
Pyrene		1.763	1.745	1.631	1.704	1.372	1.613	8.8
Terphenyl-d14		1.403	1.415	1.274	1.317	1.042	1.259	10.7
Butylbenzylphthalate		0.565	0.590	0.550	0.590	0.499	0.559	5.6
3,3-Dichlorobenzidine			0.453	0.461	0.482	0.441	0.475	6.8
Benzo (a) anthracene		1.455	1.340	1.330	1.430	1.290	1.386	5.4
Chrysene		1.276	1.245	1.279	1.403	1.164	1.280	5.7
Bis (2-ethylhexyl) phthalate		0.773	0.739	0.755	0.816	0.705	0.765	4.9
Di-n-octyl phthalate			1.163	1.272	1.410	1.269	1.320	7.9
Benzo (b) fluoranthene		1.199	1.133	1.114	1.233	1.002	1.137	6.4
Benzo (k) fluoranthene		1.077	1.094	1.083	1.041	0.999	1.064	4.4
Benzo (a) pyrene		1.064	1.050	1.058	1.077	0.963	1.049	4.2
Indeno (1,2,3-cd) pyrene		1.450	1.411	1.447	1.485	1.311	1.436	4.6

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.155	1.155	1.175	1.198	1.040	1.153	4.8
Benzo (g,h,i) perylene		1.095	1.125	1.153	1.191	1.028	1.139	5.7
1,2,4,5-Tetrachlorobenzene		0.677	0.662	0.659	0.675	0.588	0.655	6.6
1,4-Dioxane		0.526	0.487	0.518	0.554	0.500	0.528	5.7
2,3,4,6-Tetrachlorophenol		0.308	0.347	0.336	0.358	0.316	0.340	6.6