

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG No.: Q3375

Instrument ID: BNA_G

Calibration Date(s): 10/02/2025 10/02/2025

Calibration Time(s): 09:01 15:49

LAB FILE ID:		RRF2.5 = BG064473.D			RRF005 = BG064474.D		RRF020 = BG064476.D	
		RRF040 = BG064477.D			RRF050 = BG064478.D		RRF060 = BG064479.D	
COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
2-Fluorophenol		1.066	1.053	1.195	1.071	1.108	1.081	5.3
Benzaldehyde			1.039	1.527	1.152	1.548	1.290	18.7
Phenol-d6		1.395	1.446	1.631	1.434	1.496	1.452	6.1
Phenol		1.518	1.530	1.683	1.517	1.583	1.532	5.7
bis(2-Chloroethyl)ether		1.117	1.002	1.134	1.000	1.064	1.038	6.6
2-Chlorophenol		1.387	1.312	1.455	1.264	1.336	1.327	5.5
2-Methylphenol		1.105	1.087	1.215	1.076	1.143	1.109	4.8
2,2-oxybis(1-Chloropropane)		1.720	1.657	1.804	1.650	1.708	1.672	4.8
Acetophenone		0.476	0.477	0.516	0.491	0.495	0.484	4.2
3+4-Methylphenols			1.510	1.700	1.492	1.622	1.548	5.9
n-Nitroso-di-n-propylamine	0.813	1.008	1.006	1.096	0.959	1.048	0.971	9.1
Nitrobenzene-d5		0.360	0.378	0.396	0.369	0.381	0.372	3.8
Hexachloroethane		0.586	0.534	0.604	0.562	0.566	0.575	5.9
Nitrobenzene		0.403	0.352	0.395	0.364	0.377	0.371	5.7
Isophorone		0.672	0.674	0.721	0.660	0.686	0.674	3.6
2-Nitrophenol		0.197	0.181	0.192	0.185	0.188	0.185	4.9
2,4-Dimethylphenol		0.277	0.279	0.299	0.285	0.298	0.282	5.0
bis(2-Chloroethoxy)methane		0.320	0.361	0.375	0.336	0.352	0.343	5.9
2,4-Dichlorophenol		0.323	0.321	0.343	0.322	0.336	0.326	3.8
Naphthalene		1.062	1.013	1.107	0.995	1.041	1.030	4.3
4-Chloroaniline		0.392	0.373	0.417	0.388	0.406	0.395	3.5
Hexachlorobutadiene		0.331	0.308	0.316	0.296	0.300	0.304	4.9
Caprolactam			0.120	0.115	0.111	0.110	0.112	4.4
4-Chloro-3-methylphenol		0.395	0.392	0.418	0.390	0.405	0.397	3.0
2-Methylnaphthalene		0.783	0.790	0.843	0.778	0.799	0.791	3.2
Hexachlorocyclopentadiene			0.296	0.363	0.356	0.378	0.338	12.0
2,4,6-Trichlorophenol		0.391	0.396	0.445	0.416	0.436	0.413	5.3
2-Fluorobiphenyl		1.355	1.346	1.434	1.325	1.389	1.357	3.1
2,4,5-Trichlorophenol		0.451	0.430	0.486	0.465	0.473	0.461	3.9
1,1-Biphenyl		1.439	1.417	1.521	1.434	1.484	1.438	3.4
2-Chloronaphthalene		1.006	1.046	1.153	1.056	1.106	1.074	4.6
2-Nitroaniline		0.301	0.371	0.397	0.386	0.385	0.367	8.6
Dimethylphthalate		1.564	1.582	1.624	1.531	1.586	1.566	2.7
Acenaphthylene		1.591	1.573	1.704	1.574	1.638	1.594	3.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
2,6-Dinitrotoluene		0.292	0.335	0.337	0.333	0.345	0.326	5.4
3-Nitroaniline		0.279	0.300	0.319	0.315	0.303	0.301	4.5
Acenaphthene		1.108	1.086	1.159	1.106	1.138	1.108	3.0
2,4-Dinitrophenol			0.270	0.207	0.228	0.229	0.237	10.8
4-Nitrophenol			0.227	0.260	0.256	0.253	0.237	10.8
Dibenzofuran		1.837	1.800	1.909	1.821	1.872	1.829	2.8
2,4-Dinitrotoluene		0.481	0.488	0.527	0.513	0.506	0.499	3.6
Diethylphthalate		1.747	1.679	1.730	1.675	1.663	1.680	3.2
4-Chlorophenyl-phenylether		0.866	0.839	0.868	0.817	0.819	0.830	3.4
Fluorene		1.518	1.535	1.601	1.488	1.532	1.520	2.9
4-Nitroaniline		0.229	0.331	0.334	0.345	0.340	0.314	13.0
4,6-Dinitro-2-methylphenol			0.139	0.145	0.138	0.145	0.139	5.6
n-Nitrosodiphenylamine		0.540	0.534	0.569	0.508	0.541	0.534	3.6
2,4,6-Tribromophenol		0.364	0.367	0.381	0.364	0.361	0.363	2.9
4-Bromophenyl-phenylether		0.235	0.227	0.253	0.224	0.237	0.235	4.2
Hexachlorobenzene		0.256	0.272	0.288	0.260	0.280	0.269	4.4
Atrazine		0.237	0.247	0.250	0.232	0.239	0.238	4.3
Pentachlorophenol			0.146	0.169	0.166	0.170	0.157	13.7
Phenanthrene		1.072	1.055	1.111	1.002	1.050	1.046	3.6
Anthracene		1.045	1.044	1.130	1.001	1.068	1.049	3.9
Carbazole		0.883	0.904	0.987	0.877	0.921	0.907	4.2
Di-n-butylphthalate		1.096	1.105	1.189	1.076	1.131	1.107	3.7
Fluoranthene		1.269	1.272	1.330	1.192	1.253	1.250	3.8
Pyrene		1.295	1.316	1.392	1.242	1.281	1.298	4.2
Terphenyl-d14		1.067	1.069	1.123	1.030	1.044	1.057	3.6
Butylbenzylphthalate		0.437	0.464	0.497	0.447	0.479	0.460	4.8
3,3-Dichlorobenzidine			0.431	0.458	0.423	0.443	0.432	3.6
Benzo (a) anthracene		1.280	1.285	1.353	1.238	1.291	1.277	3.1
Chrysene		1.226	1.195	1.297	1.173	1.210	1.211	3.5
Bis (2-ethylhexyl) phthalate		0.605	0.640	0.692	0.641	0.670	0.649	4.3
Di-n-octyl phthalate			1.050	1.153	1.073	1.125	1.091	3.7
Benzo (b) fluoranthene		1.077	1.171	1.212	1.142	1.169	1.138	4.4
Benzo (k) fluoranthene		1.139	1.145	1.233	1.123	1.156	1.146	4.0
Benzo (a) pyrene		1.017	1.059	1.122	1.031	1.075	1.049	3.9
Indeno (1,2,3-cd) pyrene		1.368	1.378	1.493	1.387	1.431	1.392	4.0

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COMPOUND	RRF2.5	RRF005	RRF020	RRF040	RRF050	RRF060	RRF	% RSD
Dibenzo (a,h) anthracene		1.047	1.121	1.190	1.115	1.151	1.113	4.6
Benzo (g,h,i) perylene		1.059	1.088	1.153	1.069	1.104	1.082	3.4
1,2,4,5-Tetrachlorobenzene		0.622	0.622	0.708	0.640	0.678	0.646	5.6
1,4-Dioxane		0.530	0.447	0.438	0.398	0.386	0.427	12.1
2,3,4,6-Tetrachlorophenol		0.438	0.475	0.505	0.475	0.494	0.470	5.2