

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ICES02

Lab Code: ACE

SDG No.: Q3400

Instrument ID: BNA_G

Calibration Date(s): 10/24/2025 10/24/2025

Calibration Time(s): 09:00 15:32

LAB FILE ID:		RRF2.5 = BG064569.D			RRF005 = BG064570.D		RRF010 = BG064571.D	
		RRF020 = BG064572.D			RRF040 = BG064573.D		RRF060 = BG064574.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
2-Fluorophenol		1.098	1.207	1.155	1.292	1.318	1.192	7.1
Benzaldehyde			0.942	0.994	0.940	0.981	0.893	14.1
Phenol-d6		1.469	1.654	1.566	1.771	1.864	1.635	8.6
Phenol		1.665	1.820	1.748	1.944	2.027	1.808	7.4
bis(2-Chloroethyl) ether		2.203	2.320	2.131	2.386	2.440	2.225	7.3
2-Chlorophenol		1.051	1.207	1.197	1.373	1.461	1.247	10.6
2-Methylphenol		0.548	0.670	0.646	0.745	0.793	0.674	11.7
2,2-oxybis(1-Chloropropane)		3.421	3.604	3.396	3.733	3.802	3.487	6.7
Acetophenone		0.535	0.565	0.528	0.584	0.590	0.547	6.0
3+4-Methylphenols			1.652	1.581	1.818	1.895	1.688	8.0
n-Nitroso-di-n-propylamine	1.044	1.038	1.141	1.129	1.227	1.289	1.130	7.9
Nitrobenzene-d5		0.239	0.286	0.314	0.377	0.403	0.333	17.0
Hexachloroethane		0.468	0.535	0.505	0.541	0.557	0.512	6.4
Nitrobenzene		0.274	0.312	0.344	0.410	0.438	0.362	15.6
Isophorone		0.751	0.796	0.771	0.869	0.891	0.799	7.2
2-Nitrophenol		0.076	0.095	0.110	0.137	0.152	0.121	23.2
2,4-Dimethylphenol		0.236	0.294	0.285	0.335	0.359	0.303	12.9
bis(2-Chloroethoxy) methane		0.452	0.464	0.443	0.490	0.493	0.455	6.5
2,4-Dichlorophenol		0.243	0.299	0.315	0.360	0.373	0.320	13.3
Naphthalene		1.083	1.144	1.084	1.177	1.201	1.109	6.0
4-Chloroaniline		0.390	0.456	0.411	0.459	0.486	0.431	8.3
Hexachlorobutadiene		0.266	0.291	0.282	0.299	0.306	0.284	5.3
Caprolactam			0.112	0.114	0.134	0.142	0.123	9.9
4-Chloro-3-methylphenol		0.323	0.381	0.361	0.426	0.454	0.384	11.2
2-Methylnaphthalene		0.764	0.858	0.797	0.865	0.888	0.814	6.7
Hexachlorocyclopentadiene			0.268	0.279	0.324	0.340	0.302	9.0
2,4,6-Trichlorophenol		0.294	0.333	0.375	0.423	0.456	0.384	14.4
2-Fluorobiphenyl		1.310	1.389	1.306	1.384	1.384	1.319	5.2
2,4,5-Trichlorophenol		0.339	0.425	0.439	0.484	0.517	0.443	12.5
1,1-Biphenyl		1.456	1.450	1.401	1.489	1.498	1.422	5.0
2-Chloronaphthalene		1.065	1.082	1.053	1.132	1.145	1.073	4.7
2-Nitroaniline		0.201	0.234	0.277	0.348	0.404	0.311	24.1
Dimethylphthalate		1.389	1.570	1.488	1.641	1.699	1.530	7.2
Acenaphthylene		1.667	1.726	1.647	1.786	1.827	1.693	5.3

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		0.127	0.180	0.193	0.247	0.283	0.218	24.7
3-Nitroaniline		0.180	0.211	0.252	0.294	0.325	0.263	19.7
Acenaphthene		1.126	1.178	1.115	1.223	1.261	1.157	5.6
2,4-Dinitrophenol			0.086	0.110	0.137	0.165	0.132	22.1
4-Nitrophenol			0.191	0.213	0.261	0.283	0.244	14.4
Dibenzofuran		1.881	1.972	1.826	1.963	1.988	1.870	6.0
2,4-Dinitrotoluene		0.223	0.269	0.300	0.385	0.434	0.340	22.7
Diethylphthalate		1.417	1.645	1.514	1.657	1.718	1.563	7.1
4-Chlorophenyl-phenylether		0.800	0.864	0.792	0.866	0.888	0.820	6.4
Fluorene		1.471	1.559	1.426	1.531	1.549	1.460	6.4
4-Nitroaniline		0.194	0.252	0.286	0.327	0.355	0.293	18.6
4,6-Dinitro-2-methylphenol			0.055	0.064	0.083	0.097	0.079	21.0
n-Nitrosodiphenylamine		0.510	0.551	0.525	0.583	0.594	0.540	6.8
2,4,6-Tribromophenol		0.221	0.266	0.272	0.318	0.346	0.289	14.0
4-Bromophenyl-phenylether		0.218	0.236	0.230	0.258	0.264	0.237	7.3
Hexachlorobenzene		0.254	0.266	0.262	0.292	0.302	0.270	7.0
Atrazine		0.215	0.227	0.249	0.245	0.261	0.232	8.3
Pentachlorophenol			0.132	0.152	0.180	0.199	0.169	13.9
Phenanthrene		1.084	1.133	1.073	1.162	1.179	1.094	6.2
Anthracene		1.087	1.144	1.101	1.187	1.204	1.113	6.2
Carbazole		0.982	1.037	0.982	1.031	1.028	0.981	5.9
Di-n-butylphthalate		1.011	1.156	1.179	1.240	1.198	1.135	7.1
Fluoranthene		1.385	1.463	1.380	1.440	1.403	1.370	5.9
Pyrene		1.287	1.331	1.284	1.411	1.406	1.307	6.2
Terphenyl-d14		1.074	1.120	1.066	1.142	1.102	1.060	7.2
Butylbenzylphthalate		0.284	0.359	0.388	0.450	0.467	0.395	15.4
3,3-Dichlorobenzidine			0.418	0.428	0.477	0.486	0.443	6.9
Benzo (a) anthracene		1.294	1.355	1.292	1.416	1.430	1.326	5.7
Chrysene		1.249	1.291	1.229	1.344	1.359	1.262	5.8
Bis (2-ethylhexyl) phthalate		0.484	0.555	0.581	0.671	0.667	0.590	11.0
Di-n-octyl phthalate			0.871	0.932	1.087	1.117	0.995	9.3
Benzo (b) fluoranthene		1.138	1.246	1.169	1.322	1.353	1.226	6.8
Benzo (k) fluoranthene		1.175	1.260	1.206	1.285	1.364	1.227	6.5
Benzo (a) pyrene		1.061	1.144	1.093	1.202	1.246	1.127	6.4
Indeno (1,2,3-cd) pyrene		1.383	1.491	1.410	1.568	1.642	1.471	6.8

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	RRF060	RRF	% RSD
Dibenzo(a,h)anthracene		1.120	1.223	1.158	1.268	1.324	1.195	6.5
Benzo(g,h,i)perylene		1.383	1.491	1.410	1.568	1.642	1.471	6.8
1,2,4,5-Tetrachlorobenzene		0.657	0.684	0.648	0.702	0.717	0.671	4.6
1,4-Dioxane		0.570	0.581	0.524	0.525	0.559	0.528	8.8
2,3,4,6-Tetrachlorophenol		0.312	0.385	0.402	0.466	0.508	0.424	15.0