

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: CHEM02

Lab Code: ACE

SDG No.: Q2693

Instrument ID: BNA_N

Calibration Date(s): 07/18/2025 07/18/2025

Calibration Time(s): 12:38 15:55

LAB FILE ID:		RRFAL1 = BN037520.D			RRFAL2 = BN037521.D		RRFAL3 = BN037522.D	
		RRFAL4 = BN037523.D			RRFAL5 = BN037524.D		RRFAL6 = BN037525.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.486	0.460	0.486	0.447	0.465		0.469	3.7
Benzaldehyde		0.897	0.926	0.780	0.533	0.293	0.686	39.1
Hexachloroethane	0.520	0.534	0.560	0.554	0.571		0.548	3.8
Nitrobenzene	0.311	0.340	0.341	0.365	0.355		0.342	5.9
Isophorone	0.563	0.613	0.641	0.670	0.639		0.625	6.4
2-Nitrophenol	0.118	0.148	0.161	0.179	0.184		0.158	16.9
2,4-Dimethylphenol	0.309	0.326	0.343	0.350	0.338		0.333	4.9
Bis(2-Chloroethoxy)methane	0.376	0.399	0.413	0.426	0.415		0.406	4.8
2,4-Dichlorophenol	0.254	0.286	0.297	0.306	0.305		0.290	7.4
Naphthalene	1.038	1.052	1.068	1.102	1.058		1.064	2.3
4-Chloroaniline		0.415	0.442	0.451	0.423	0.413	0.429	4.0
Hexachlorobutadiene	0.198	0.198	0.193	0.207	0.205		0.200	3.0
Phenol		1.465	1.537	1.543	1.556	1.474	1.515	2.8
Caprolactam		0.081	0.093	0.099	0.093	0.095	0.092	7.2
4-Chloro-3-methylphenol	0.258	0.290	0.318	0.323	0.306		0.299	8.8
2-Methylnaphthalene	0.669	0.721	0.746	0.771	0.724		0.726	5.2
Hexachlorocyclopentadiene		0.334	0.343	0.394	0.426	0.401	0.380	10.3
2,4,6-Trichlorophenol	0.281	0.333	0.362	0.389	0.395		0.352	13.3
2,4,5-Trichlorophenol	0.342	0.387	0.400	0.436	0.435		0.400	9.8
1,1-Biphenyl	1.393	1.496	1.511	1.588	1.535		1.505	4.7
2-Chloronaphthalene	1.078	1.172	1.167	1.212	1.208		1.167	4.6
2-Nitroaniline	0.205	0.257	0.289	0.325	0.319		0.279	17.8
Bis(2-Chloroethyl)ether		1.223	1.267	1.243	1.254	1.170	1.231	3.1
Dimethylphthalate	1.294	1.366	1.430	1.504	1.401		1.399	5.6
2,6-Dinitrotoluene	0.202	0.243	0.277	0.301	0.307		0.266	16.5
Acenaphthylene	1.760	1.914	1.939	2.000	1.909		1.905	4.6
3-Nitroaniline		0.251	0.288	0.292	0.253	0.232	0.263	9.9
Acenaphthene	1.175	1.234	1.244	1.287	1.249		1.237	3.3
2,4-Dinitrophenol		0.091	0.112	0.141	0.164	0.187	0.139	27.8
4-Nitrophenol		0.177	0.195	0.206	0.193	0.194	0.193	5.4
Dibenzofuran	1.625	1.715	1.755	1.787	1.695		1.715	3.6
2,4-Dinitrotoluene	0.291	0.359	0.416	0.449	0.431		0.389	16.6
Diethylphthalate	1.272	1.359	1.452	1.506	1.440		1.406	6.5
2-Chlorophenol	1.135	1.261	1.292	1.349	1.360		1.279	7.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.348	1.406	1.442	1.452	1.360		1.401	3.4
4-Chlorophenyl-phenylether	0.680	0.683	0.704	0.708	0.687	0.648	0.685	3.1
4-Nitroaniline		0.247	0.295	0.279	0.228	0.201	0.250	15.1
4,6-Dinitro-2-methylphenol		0.092	0.106	0.125	0.133	0.141	0.119	16.9
N-Nitrosodiphenylamine	0.572	0.616	0.623	0.660	0.639		0.622	5.2
1,2,4,5-Tetrachlorobenzene	0.562	0.594	0.586	0.629	0.613		0.597	4.3
4-Bromophenyl-phenylether	0.199	0.213	0.218	0.242	0.230		0.221	7.6
Hexachlorobenzene	0.243	0.264	0.257	0.274	0.270		0.262	4.6
Atrazine		0.202	0.222	0.235	0.232	0.229	0.224	5.9
Pentachlorophenol		0.136	0.146	0.170	0.175	0.183	0.162	12.2
2-Methylphenol		1.112	1.164	1.168	1.168	1.115	1.145	2.5
Phenanthrene	1.084	1.140	1.145	1.177	1.131		1.135	2.9
Anthracene	1.076	1.167	1.172	1.204	1.144		1.153	4.2
Carbazole		0.979	1.034	1.080	1.017	0.984	1.019	4.1
Di-n-butylphthalate	1.016	1.167	1.260	1.367	1.323		1.227	11.4
Fluoranthene	1.124	1.283	1.219	1.336	1.274		1.247	6.5
Pyrene	1.219	1.320	1.268	1.378	1.324		1.302	4.6
Butylbenzylphthalate	0.325	0.412	0.436	0.540	0.545		0.452	20.5
3,3-Dichlorobenzidine		0.339	0.373	0.425	0.408	0.363	0.381	9.1
2,2-oxybis(1-Chloropropane)		1.798	1.813	1.815	1.799	1.681	1.781	3.2
Benzo(a)anthracene	1.221	1.294	1.270	1.401	1.314		1.300	5.1
Chrysene	1.194	1.254	1.214	1.257	1.251		1.234	2.3
Bis(2-ethylhexyl)phthalate	0.546	0.689	0.731	0.891	0.894		0.750	19.5
Di-n-octyl phthalate		0.969	1.121	1.329	1.383	1.358	1.232	14.6
Benzo(b)fluoranthene	1.035	1.121	1.211	1.271	1.238		1.175	8.2
Benzo(k)fluoranthene	1.100	1.187	1.219	1.314	1.279		1.220	6.8
Benzo(a)pyrene	0.973	1.075	1.174	1.227	1.189		1.128	9.1
Indeno(1,2,3-cd)pyrene	1.235	1.364	1.464	1.552	1.540		1.431	9.3
Dibenzo(a,h)anthracene	1.032	1.132	1.230	1.301	1.277		1.194	9.3
Benzo(g,h,i)perylene	1.031	1.105	1.205	1.225	1.225		1.158	7.5
Acetophenone		1.947	1.993	1.904	1.887	1.749	1.896	4.9
2,3,4,6-Tetrachlorophenol	0.255	0.294	0.324	0.346	0.347		0.313	12.5
1,4-Dioxane-d8	0.391	0.427	0.436	0.421	0.435		0.422	4.3
Pyridine-d5		1.205	1.249	1.216	1.264	1.150	1.217	3.6
Phenol-d5		1.425	1.495	1.508	1.508	1.430	1.474	2.9

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl) ether-d8		0.885	0.899	0.909	0.921	0.845	0.892	3.3
2-Chlorophenol-d4	1.113	1.235	1.281	1.310	1.338		1.255	7.0
4-Methylphenol-d8		1.176	1.243	1.234	1.229	1.179	1.212	2.6
Nitrobenzene-d5	0.126	0.143	0.153	0.165	0.164		0.150	11.1
2-Nitrophenol-d4	0.100	0.122	0.138	0.159	0.171		0.138	20.4
2,4-Dichlorophenol-d3	0.245	0.279	0.297	0.312	0.307		0.288	9.4
4-Chloroaniline-d4		0.414	0.433	0.451	0.425	0.418	0.428	3.5
4-Methylphenol		1.196	1.267	1.270	1.271	1.183	1.237	3.6
Dimethylphthalate-d6	1.302	1.405	1.453	1.512	1.425		1.420	5.4
Acenaphthylene-d8	1.488	1.640	1.694	1.776	1.734		1.666	6.7
4-Nitrophenol-d4		0.231	0.269	0.291	0.280	0.282	0.270	8.7
Fluorene-d10	1.171	1.213	1.249	1.287	1.207		1.226	3.6
4,6-Dinitro-2-methylphenol		0.078	0.093	0.117	0.128	0.138	0.111	22.4
Anthracene-d10	0.904	0.977	1.003	1.041	0.994		0.984	5.1
Pyrene-d10	0.941	1.057	1.029	1.152	1.075		1.051	7.3
Benzo(a)pyrene-d12	0.863	0.957	1.031	1.094	1.098		1.009	9.9
N-Nitroso-di-n-propylamine	0.776	0.886	0.929	0.912	0.905		0.881	6.9

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