284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: EARTH03

Lab Code: ACE SDG No.: Q2818

Instrument ID: BNA_P Calibration Date(s): 08/05/2025 08/05/2025

Calibration Time(s): 12:03 16:51

LAB FILE ID: RRF2.5 = BP025298.D RRF005 = BP025299.D RRF010 = BP025300.D
RRF020 = BP025301.D RRF040 = BP025302.D RRF050 = BP025303.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol	1.187	1.248	1.220	1.251	1.233	1.297	1.244	2.9
Benzaldehyde			1.132	1.083	1.402	1.409	1.162	18.3
Phenol-d6	1.535	1.587	1.583	1.648	1.632	1.734	1.637	4.4
Phenol		1.694	1.677	1.728	1.731	1.844	1.751	4.1
bis(2-Chloroethyl)ether		1.389	1.311	1.360	1.337	1.440	1.372	3.8
2-Chlorophenol		1.251	1.264	1.355	1.350	1.451	1.361	6.1
2-Methylphenol		1.093	1.085	1.156	1.176	1.253	1.172	6.0
2,2-oxybis(1-Chloropropane)		2.272	2.091	2.159	2.107	2.251	2.167	4.4
Acetophenone		0.524	0.498	0.510	0.493	0.517	0.502	3.4
3+4-Methylphenols			1.447	1.566	1.587	1.713	1.613	6.8
n-Nitroso-di-n-propylamine	0.989	1.103	1.026	1.062	1.080	1.146	1.075	5.8
Nitrobenzene-d5	0.300	0.324	0.334	0.375	0.374	0.407	0.361	10.2
Hexachloroethane		0.563	0.532	0.540	0.540	0.572	0.553	3.2
Nitrobenzene		0.311	0.312	0.347	0.344	0.373	0.342	6.7
Isophorone		0.727	0.682	0.702	0.713	0.759	0.719	4.2
2-Nitrophenol		0.082	0.085	0.115	0.128	0.149	0.126	26.4
2,4-Dimethylphenol		0.380	0.319	0.308	0.324	0.342	0.331	7.4
bis(2-Chloroethoxy)methane		0.457	0.415	0.437	0.431	0.457	0.437	4.3
2,4-Dichlorophenol		0.249	0.259	0.293	0.296	0.317	0.290	9.0
Naphthalene		1.093	1.014	1.044	1.017	1.075	1.038	3.8
4-Chloroaniline		0.449	0.435	0.460	0.459	0.495	0.462	4.4
Hexachlorobutadiene		0.191	0.178	0.185	0.180	0.188	0.184	2.6
Caprolactam			0.095	0.105	0.115	0.122	0.113	9.5
4-Chloro-3-methylphenol		0.310	0.303	0.327	0.341	0.368	0.336	7.3
2-Methylnaphthalene		0.697	0.653	0.665	0.656	0.701	0.672	3.4
Hexachlorocyclopentadiene			0.291	0.324	0.331	0.358	0.337	8.1
2,4,6-Trichlorophenol		0.279	0.301	0.359	0.367	0.395	0.353	12.7
2-Fluorobiphenyl	1.502	1.551	1.453	1.479	1.444	1.464	1.448	5.2
2,4,5-Trichlorophenol		0.310	0.342	0.408	0.412	0.437	0.396	12.6
1,1-Biphenyl		1.518	1.461	1.524	1.449	1.517	1.474	3.3
2-Chloronaphthalene		1.138	1.098	1.157	1.106	1.159	1.124	2.5
2-Nitroaniline		0.187	0.212	0.287	0.308	0.344	0.288	22.3
Dimethylphthalate		1.522	1.403	1.470	1.431	1.532	1.458	4.1
Acenaphthylene		1.859	1.841	1.901	1.868	1.971	1.876	2.9

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.178	0.217	0.278	0.287	0.308	0.269	19.0
3-Nitroaniline		0.217	0.256	0.317	0.333	0.362	0.315	18.2
Acenaphthene		1.164	1.120	1.156	1.114	1.201	1.144	2.9
2,4-Dinitrophenol			0.059	0.080	0.095	0.117	0.105	31.5
4-Nitrophenol			0.199	0.270	0.284	0.308	0.278	14.9
Dibenzofuran		1.804	1.711	1.735	1.681	1.762	1.710	4.3
2,4-Dinitrotoluene		0.213	0.257	0.361	0.390	0.431	0.359	25.0
Diethylphthalate		1.518	1.416	1.498	1.440	1.528	1.470	3.9
4-Chlorophenyl-phenylether		0.722	0.638	0.651	0.631	0.642	0.637	7.7
Fluorene		1.500	1.398	1.379	1.316	1.360	1.343	7.8
4-Nitroaniline		0.227	0.263	0.324	0.338	0.348	0.312	15.2
4,6-Dinitro-2-methylphenol			0.041	0.063	0.075	0.093	0.080	31.7
n-Nitrosodiphenylamine		0.606	0.601	0.618	0.605	0.638	0.609	3.4
2,4,6-Tribromophenol	0.151	0.171	0.182	0.210	0.212	0.229	0.200	14.1
4-Bromophenyl-phenylether		0.200	0.194	0.202	0.199	0.211	0.201	3.3
Hexachlorobenzene		0.232	0.222	0.224	0.220	0.233	0.226	2.8
Atrazine		0.201	0.199	0.218	0.212	0.231	0.214	5.8
Pentachlorophenol			0.104	0.139	0.144	0.161	0.144	14.9
Phenanthrene		1.161	1.101	1.097	1.073	1.132	1.095	4.4
Anthracene		1.104	1.093	1.129	1.095	1.151	1.105	4.1
Carbazole		1.062	1.069	1.086	1.052	1.101	1.060	3.5
Di-n-butylphthalate		1.198	1.188	1.337	1.290	1.376	1.283	6.3
Fluoranthene		1.321	1.288	1.291	1.252	1.314	1.268	4.7
Pyrene		1.321	1.314	1.350	1.289	1.406	1.330	3.2
Terphenyl-d14	1.060	1.140	1.083	1.096	1.046	1.082	1.059	5.5
Butylbenzylphthalate		0.399	0.413	0.554	0.565	0.627	0.539	17.7
3,3-Dichlorobenzidine			0.414	0.484	0.473	0.501	0.469	6.4
Benzo(a)anthracene		1.346	1.308	1.357	1.302	1.382	1.329	3.1
Chrysene		1.257	1.193	1.257	1.217	1.289	1.233	3.5
Bis(2-ethylhexyl)phthalate		0.735	0.713	0.903	0.892	0.939	0.861	11.4
Di-n-octyl phthalate			1.011	1.434	1.502	1.543	1.442	15.3
Benzo(b)fluoranthene		1.182	1.151	1.194	1.179	1.290	1.197	3.8
Benzo(k)fluoranthene		1.191	1.145	1.189	1.171	1.264	1.187	3.6
Benzo(a)pyrene		1.116	1.108	1.148	1.151	1.229	1.153	3.7
Indeno(1,2,3-cd)pyrene		1.374	1.302	1.436	1.443	1.546	1.434	5.5

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Dibenzo(a,h)anthracene		1.135	1.077	1.166	1.185	1.261	1.174	5.0
Benzo(g,h,i)perylene		1.126	1.051	1.149	1.153	1.243	1.152	5.0
1,2,4,5-Tetrachlorobenzene		0.551	0.530	0.564	0.547	0.557	0.546	2.3
1,4-Dioxane		0.536	0.502	0.479	0.481	0.495	0.491	4.8
2,3,4,6-Tetrachlorophenol		0.262	0.286	0.339	0.344	0.366	0.331	12.3

All other compounds must meet a minimum RRF of 0.010.