

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: FIRS02

Lab Code: ACE

SDG No.: Q2553

Instrument ID: BNA_P

Calibration Date(s): 07/03/2025 07/03/2025

Calibration Time(s): 09:39 14:31

LAB FILE ID:		RRF2.5 = BP025071.D			RRF005 = BP025072.D		RRF010 = BP025073.D	
		RRF020 = BP025074.D			RRF040 = BP025075.D		RRF050 = BP025076.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.070	1.098	1.179	1.134	1.127	1.129	3.3
Benzaldehyde			0.903	0.894	0.724	0.684	0.769	15.8
Phenol-d6		1.428	1.407	1.520	1.458	1.472	1.473	3.3
Phenol		1.473	1.461	1.551	1.472	1.485	1.497	2.4
bis(2-Chloroethyl)ether		1.187	1.139	1.200	1.122	1.129	1.152	2.9
2-Chlorophenol		1.254	1.207	1.320	1.256	1.250	1.263	2.8
2-Methylphenol		0.887	0.908	1.007	0.969	0.974	0.964	5.1
2,2-oxybis(1-Chloropropane)		1.587	1.520	1.570	1.433	1.462	1.498	4.4
Acetophenone		0.480	0.481	0.502	0.465	0.456	0.473	3.9
3+4-Methylphenols			1.246	1.383	1.334	1.341	1.350	4.5
n-Nitroso-di-n-propylamine	0.815	0.862	0.854	0.938	0.865	0.871	0.874	4.3
Nitrobenzene-d5		0.267	0.277	0.314	0.307	0.308	0.301	6.8
Hexachloroethane		0.476	0.441	0.480	0.460	0.463	0.466	3.0
Nitrobenzene		0.280	0.293	0.319	0.310	0.307	0.306	5.1
Isophorone		0.525	0.534	0.587	0.558	0.571	0.562	4.7
2-Nitrophenol		0.086	0.093	0.117	0.133	0.146	0.128	23.5
2,4-Dimethylphenol		0.199	0.195	0.218	0.208	0.213	0.210	4.8
bis(2-Chloroethoxy)methane		0.378	0.371	0.401	0.374	0.379	0.382	3.2
2,4-Dichlorophenol		0.242	0.263	0.298	0.299	0.304	0.291	9.5
Naphthalene		1.057	1.030	1.081	1.011	1.005	1.030	3.5
4-Chloroaniline		0.358	0.370	0.399	0.390	0.381	0.384	4.6
Hexachlorobutadiene		0.187	0.180	0.188	0.182	0.184	0.185	2.3
Caprolactam			0.087	0.101	0.101	0.098	0.099	7.2
4-Chloro-3-methylphenol		0.259	0.279	0.321	0.309	0.309	0.304	8.3
2-Methylnaphthalene		0.724	0.711	0.766	0.718	0.715	0.727	3.0
Hexachlorocyclopentadiene			0.120	0.135	0.149	0.162	0.150	13.1
2,4,6-Trichlorophenol		0.271	0.295	0.355	0.370	0.368	0.348	13.5
2-Fluorobiphenyl		1.338	1.310	1.361	1.279	1.260	1.291	4.7
2,4,5-Trichlorophenol		0.326	0.349	0.406	0.411	0.412	0.394	10.4
1,1-Biphenyl		1.482	1.436	1.510	1.454	1.435	1.455	3.0
2-Chloronaphthalene		1.097	1.089	1.141	1.091	1.069	1.094	2.8
2-Nitroaniline		0.157	0.185	0.235	0.259	0.259	0.237	20.5
Dimethylphthalate		1.364	1.376	1.469	1.408	1.365	1.400	4.0
Acenaphthylene		1.582	1.622	1.771	1.701	1.660	1.674	4.4

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		0.199	0.238	0.281	0.295	0.291	0.273	14.6
3-Nitroaniline		0.204	0.248	0.297	0.321	0.310	0.293	16.8
Acenaphthene		1.085	1.074	1.142	1.066	1.047	1.079	3.6
2,4-Dinitrophenol			0.077	0.098	0.117	0.120	0.114	20.5
4-Nitrophenol			0.212	0.260	0.285	0.274	0.270	11.7
Dibenzofuran		1.829	1.814	1.866	1.768	1.720	1.781	4.1
2,4-Dinitrotoluene		0.231	0.285	0.364	0.392	0.387	0.356	20.1
Diethylphthalate		1.368	1.376	1.468	1.429	1.366	1.406	3.6
4-Chlorophenyl-phenylether		0.711	0.687	0.710	0.679	0.659	0.682	4.5
Fluorene		1.382	1.384	1.467	1.393	1.335	1.377	4.3
4-Nitroaniline		0.221	0.267	0.321	0.342	0.319	0.307	15.3
4,6-Dinitro-2-methylphenol			0.054	0.069	0.081	0.089	0.082	21.3
n-Nitrosodiphenylamine		0.557	0.548	0.597	0.573	0.574	0.572	3.1
2,4,6-Tribromophenol		0.194	0.214	0.240	0.246	0.244	0.236	10.2
4-Bromophenyl-phenylether		0.191	0.190	0.213	0.205	0.208	0.205	5.1
Hexachlorobenzene		0.255	0.240	0.255	0.247	0.248	0.250	2.3
Atrazine		0.155	0.167	0.183	0.172	0.171	0.168	6.1
Pentachlorophenol			0.131	0.163	0.172	0.178	0.169	12.0
Phenanthrene		1.102	1.084	1.104	1.068	1.030	1.069	3.3
Anthracene		0.998	0.996	1.092	1.036	1.021	1.025	4.1
Carbazole		0.954	0.994	1.057	1.029	0.990	1.002	3.5
Di-n-butylphthalate		0.929	0.994	1.147	1.187	1.177	1.116	9.9
Fluoranthene		1.170	1.222	1.330	1.290	1.249	1.249	4.2
Pyrene		1.177	1.184	1.288	1.231	1.251	1.239	3.8
Terphenyl-d14		0.943	0.919	0.978	0.914	0.915	0.910	7.5
Butylbenzylphthalate		0.228	0.276	0.377	0.440	0.471	0.402	28.0
3,3-Dichlorobenzidine			0.249	0.340	0.390	0.399	0.365	17.0
Benzo (a) anthracene		1.146	1.175	1.293	1.217	1.207	1.212	4.1
Chrysene		1.169	1.147	1.223	1.159	1.157	1.166	2.9
Bis (2-ethylhexyl) phthalate		0.460	0.520	0.646	0.703	0.737	0.650	17.9
Di-n-octyl phthalate			0.609	0.876	1.094	1.206	1.054	25.0
Benzo (b) fluoranthene		1.029	1.063	1.215	1.201	1.188	1.164	7.4
Benzo (k) fluoranthene		1.070	1.129	1.249	1.153	1.157	1.158	5.1
Benzo (a) pyrene		0.817	0.868	1.035	1.033	1.035	0.991	10.7
Indeno (1,2,3-cd) pyrene		1.003	1.101	1.318	1.331	1.366	1.274	12.4

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Dibenzo(a,h)anthracene		0.840	0.921	1.098	1.097	1.126	1.053	11.7
Benzo(g,h,i)perylene		0.915	0.967	1.126	1.127	1.142	1.088	9.6
1,2,4,5-Tetrachlorobenzene		0.554	0.549	0.584	0.580	0.578	0.575	3.6
1,4-Dioxane		0.470	0.452	0.457	0.435	0.420	0.439	5.0
2,3,4,6-Tetrachlorophenol		0.305	0.318	0.370	0.370	0.363	0.357	9.3