Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA_F Calibration Date(s): 03/10/2025 03/10/2025

Calibration Time(s): 11:01 15:20

LAB FILE ID: RRF2.5 = BF141897.D RRF005 = BF141898.D RRF010 = BF141899.D
RRF020 = BF141900.D RRF040 = BF141901.D RRF060 = BF141903.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
2-Fluorophenol		1.267	1.243	1.298	1.148	1.146	1.198	5.8
Benzaldehyde			1.021	0.975	0.778	0.716	0.853	15.8
Phenol-d6		1.623	1.593	1.644	1.442	1.471	1.526	6.0
Phenol		1.708	1.675	1.747	1.536	1.532	1.605	6.3
bis(2-Chloroethyl)ether		1.287	1.246	1.281	1.144	1.176	1.205	5.4
2-Chlorophenol		1.421	1.354	1.434	1.259	1.284	1.329	5.6
2-Methylphenol		1.080	1.050	1.122	1.008	1.079	1.057	3.7
2,2-oxybis(1-Chloropropane)		1.591	1.525	1.534	1.363	1.472	1.455	7.1
Acetophenone		0.514	0.493	0.513	0.460	0.469	0.479	5.8
3+4-Methylphenols		1.449	1.394	1.470	1.294	1.334	1.354	6.5
n-Nitroso-di-n-propylamine	1.020	1.024	1.000	1.043	0.913	0.991	0.980	5.3
Nitrobenzene-d5		0.345	0.356	0.379	0.348	0.363	0.355	3.5
Hexachloroethane		0.545	0.551	0.576	0.517	0.560	0.544	3.8
Nitrobenzene		0.347	0.351	0.375	0.346	0.359	0.353	3.1
Isophorone		0.647	0.620	0.655	0.600	0.648	0.628	3.5
2-Nitrophenol		0.150	0.159	0.182	0.175	0.188	0.173	7.9
2,4-Dimethylphenol		0.247	0.234	0.251	0.231	0.244	0.239	3.5
bis(2-Chloroethoxy)methane		0.411	0.406	0.416	0.372	0.397	0.394	4.6
2,4-Dichlorophenol		0.292	0.295	0.309	0.286	0.303	0.296	2.5
Naphthalene		1.104	1.075	1.101	0.984	0.973	1.027	6.2
4-Chloroaniline		0.383	0.378	0.393	0.351	0.352	0.363	6.1
Hexachlorobutadiene		0.211	0.211	0.221	0.203	0.214	0.213	2.5
Caprolactam		0.092	0.089	0.094	0.084	0.090	0.090	4.0
4-Chloro-3-methylphenol		0.334	0.331	0.349	0.318	0.334	0.331	3.1
2-Methylnaphthalene		0.746	0.709	0.733	0.653	0.667	0.687	6.1
Hexachlorocyclopentadiene		0.204	0.221	0.249	0.250	0.252	0.238	8.0
2,4,6-Trichlorophenol		0.388	0.389	0.402	0.398	0.401	0.398	1.9
2-Fluorobiphenyl		1.430	1.379	1.379	1.254	1.246	1.315	5.9
2,4,5-Trichlorophenol		0.396	0.391	0.422	0.389	0.415	0.403	3.0
1,1-Biphenyl		1.636	1.573	1.591	1.454	1.431	1.520	5.3
2-Chloronaphthalene		1.197	1.141	1.181	1.091	1.090	1.133	3.8
2-Nitroaniline		0.296	0.314	0.346	0.322	0.332	0.328	6.1
Dimethylphthalate		1.481	1.414	1.469	1.329	1.345	1.401	4.5
Acenaphthylene		1.765	1.740	1.778	1.635	1.595	1.681	4.7

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		0.277	0.279	0.305	0.285	0.296	0.292	4.1
3-Nitroaniline		0.291	0.295	0.316	0.293	0.301	0.296	3.6
Acenaphthene		1.236	1.195	1.231	1.146	1.165	1.181	3.4
2,4-Dinitrophenol			0.085	0.124	0.142	0.161	0.139	22.0
4-Nitrophenol		0.192	0.216	0.234	0.230	0.230	0.223	6.6
Dibenzofuran		1.849	1.787	1.791	1.614	1.596	1.688	6.9
2,4-Dinitrotoluene		0.365	0.382	0.402	0.375	0.383	0.381	2.9
Diethylphthalate		1.475	1.471	1.497	1.336	1.338	1.397	5.8
4-Chlorophenyl-phenylether		0.730	0.688	0.702	0.643	0.656	0.679	4.4
Fluorene		1.443	1.361	1.381	1.229	1.234	1.302	7.0
4-Nitroaniline		0.284	0.288	0.304	0.288	0.286	0.288	2.7
4,6-Dinitro-2-methylphenol			0.083	0.111	0.121	0.133	0.119	16.6
n-Nitrosodiphenylamine		0.675	0.651	0.671	0.620	0.638	0.647	3.0
2,4,6-Tribromophenol		0.234	0.236	0.259	0.250	0.265	0.254	5.7
4-Bromophenyl-phenylether		0.240	0.249	0.255	0.244	0.245	0.251	3.6
Hexachlorobenzene		0.262	0.267	0.284	0.269	0.271	0.275	3.9
Atrazine		0.216	0.213	0.193	0.164		0.198	10.7
Pentachlorophenol		0.130	0.151	0.172	0.177	0.186	0.170	12.7
Phenanthrene		1.155	1.151	1.138	1.038	1.032	1.080	5.9
Anthracene		1.173	1.139	1.139	1.046	1.036	1.084	5.9
Carbazole		0.996	0.994	0.985	0.908	0.892	0.935	5.9
Di-n-butylphthalate		1.320	1.321	1.319	1.177	1.175	1.240	6.5
Fluoranthene		1.234	1.226	1.228	1.108	1.059	1.146	7.7
Pyrene		1.695	1.651	1.727	1.611	1.823	1.730	5.4
Terphenyl-d14		1.343	1.309	1.360	1.276	1.417	1.353	3.6
Butylbenzylphthalate		0.629	0.656	0.702	0.655	0.717	0.677	4.7
3,3-Dichlorobenzidine		0.370	0.389	0.380	0.372	0.394	0.379	2.8
Benzo(a)anthracene		1.370	1.304	1.334	1.273	1.317	1.312	2.4
Chrysene		1.143	1.194	1.260	1.136	1.213	1.190	3.5
Bis(2-ethylhexyl)phthalate		0.897	0.912	0.966	0.904	0.952	0.934	3.4
Di-n-octyl phthalate		1.145	1.219	1.338	1.265	1.390	1.299	7.1
Benzo(b)fluoranthene		1.420	1.310	1.485	1.210	1.390	1.371	6.6
Benzo(k)fluoranthene		1.162	1.268	1.197	1.205	1.210	1.173	6.2
Benzo(a)pyrene		1.040	1.042	1.123	1.036	1.083	1.073	3.2
Indeno(1,2,3-cd)pyrene		1.097	1.142	1.308	1.287	1.472	1.294	10.6

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF060	RRF	% RSD
Dibenzo(a,h)anthracene		0.910	0.953	1.073	1.068	1.195	1.067	9.9
Benzo(g,h,i)perylene		0.912	0.949	1.061	1.065	1.167	1.055	9.2
1,2,4,5-Tetrachlorobenzene		0.615	0.604	0.626	0.592	0.606	0.609	2.1
1,4-Dioxane		0.490	0.482	0.536	0.504	0.501	0.502	3.4
2,3,4,6-Tetrachlorophenol		0.355	0.365	0.390	0.359	0.366	0.367	3.0

All other compounds must meet a minimum RRF of 0.010.