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_G Calibration Date(s): 03/05/2025 03/05/2025

Calibration Time(s): 09:02 13:44

LAB FILE ID: RRF2.5 = BG064045.D RRF005 = BG064046.D RRF010 = BG064047.D
RRF020 = BG064048.D RRF040 = BG064049.D RRF050 = BG064050.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.165	1.240	1.330	1.350	1.259	1.281	5.0
Benzaldehyde		1.111	1.122	1.133	1.003	0.860	1.013	12.9
Phenol-d6		1.580	1.631	1.794	1.848	1.703	1.742	6.1
Phenol		1.590	1.693	1.826	1.881	1.752	1.784	6.3
bis(2-Chloroethyl)ether		1.375	1.444	1.424	1.415	1.322	1.399	2.9
2-Chlorophenol		1.262	1.337	1.412	1.446	1.333	1.376	4.8
2-Methylphenol		1.015	1.116	1.177	1.268	1.171	1.184	8.1
2,2-oxybis(1-Chloropropane)		3.064	3.024	3.209	3.282	2.996	3.145	3.6
Acetophenone		0.522	0.525	0.580	0.563	0.546	0.548	3.8
3+4-Methylphenols		1.402	1.518	1.638	1.706	1.612	1.630	8.3
n-Nitroso-di-n-propylamine	1.146	1.095	1.157	1.282	1.323	1.189	1.223	7.1
Nitrobenzene-d5		0.290	0.300	0.360	0.385	0.390	0.362	13.3
Hexachloroethane		0.489	0.519	0.520	0.577	0.526	0.542	6.9
Nitrobenzene		0.298	0.320	0.390	0.397	0.396	0.374	12.2
Isophorone		0.709	0.672	0.744	0.745	0.717	0.724	3.9
2-Nitrophenol		0.067	0.079	0.096	0.122	0.130	0.112	28.0
2,4-Dimethylphenol		0.194	0.187	0.221	0.228	0.221	0.217	8.8
bis(2-Chloroethoxy)methane		0.424	0.417	0.468	0.443	0.427	0.439	4.0
2,4-Dichlorophenol		0.222	0.239	0.281	0.287	0.290	0.274	11.2
Naphthalene		1.078	1.043	1.114	1.079	1.061	1.078	2.1
4-Chloroaniline		0.355	0.364	0.407	0.416	0.394	0.394	6.5
Hexachlorobutadiene		0.208	0.213	0.225	0.219	0.216	0.217	2.5
Caprolactam		0.086	0.091	0.112	0.110	0.113	0.105	10.8
4-Chloro-3-methylphenol		0.293	0.330	0.379	0.373	0.373	0.359	9.7
2-Methylnaphthalene		0.775	0.727	0.788	0.763	0.746	0.761	2.8
Hexachlorocyclopentadiene		0.123	0.128	0.161	0.175	0.175	0.161	15.4
2,4,6-Trichlorophenol		0.268	0.293	0.341	0.358	0.362	0.337	11.9
2-Fluorobiphenyl		1.369	1.310	1.359	1.368	1.283	1.318	3.6
2,4,5-Trichlorophenol		0.284	0.330	0.381	0.406	0.396	0.374	13.0
1,1-Biphenyl		1.506	1.499	1.572	1.538	1.475	1.511	2.3
2-Chloronaphthalene		1.086	1.075	1.100	1.127	1.102	1.102	1.6
2-Nitroaniline		0.197	0.231	0.277	0.348	0.368	0.318	26.1
Dimethylphthalate		1.432	1.401	1.559	1.520	1.463	1.476	3.7
Acenaphthylene		1.714	1.677	1.793	1.789	1.735	1.743	2.5

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		0.158	0.200	0.262	0.292	0.300	0.261	22.7
3-Nitroaniline		0.190	0.228	0.298	0.316	0.313	0.285	19.0
Acenaphthene		1.165	1.148	1.231	1.187	1.159	1.170	2.8
2,4-Dinitrophenol			0.066	0.084	0.100	0.111	0.102	23.3
4-Nitrophenol			0.164	0.200	0.257	0.280	0.239	19.5
Dibenzofuran		1.926	1.881	1.976	1.941	1.853	1.895	2.8
2,4-Dinitrotoluene		0.225	0.255	0.344	0.404	0.418	0.357	23.8
Diethylphthalate		1.496	1.501	1.709	1.669	1.624	1.603	5.1
4-Chlorophenyl-phenylether		0.754	0.744	0.788	0.735	0.712	0.733	4.6
Fluorene		1.555	1.450	1.542	1.478	1.452	1.476	3.8
4-Nitroaniline		0.213	0.263	0.313	0.345	0.351	0.308	16.7
4,6-Dinitro-2-methylphenol			0.050	0.059	0.075	0.082	0.076	24.3
n-Nitrosodiphenylamine		0.558	0.551	0.582	0.578	0.558	0.566	2.1
2,4,6-Tribromophenol		0.166	0.191	0.226	0.241	0.241	0.222	14.1
4-Bromophenyl-phenylether		0.186	0.195	0.212	0.210	0.200	0.205	5.6
Hexachlorobenzene		0.227	0.226	0.236	0.229	0.228	0.229	1.4
Atrazine		0.175	0.190	0.179	0.160	0.129	0.167	14.3
Pentachlorophenol			0.105	0.128	0.149	0.151	0.142	15.6
Phenanthrene		1.084	1.034	1.110	1.080	1.054	1.067	2.4
Anthracene		1.024	1.041	1.104	1.085	1.055	1.061	2.6
Carbazole		0.949	0.988	1.020	1.027	1.007	0.990	3.0
Di-n-butylphthalate		0.932	1.095	1.213	1.257	1.236	1.166	9.9
Fluoranthene		1.272	1.315	1.336	1.318	1.298	1.286	3.3
Pyrene		1.251	1.287	1.350	1.310	1.254	1.289	2.6
Terphenyl-d14		1.011	1.024	1.062	0.999	0.944	0.989	4.9
Butylbenzylphthalate		0.285	0.331	0.405	0.465	0.473	0.423	20.4
3,3-Dichlorobenzidine		0.350	0.396	0.444	0.450	0.416	0.415	8.3
Benzo(a)anthracene		1.217	1.268	1.310	1.303	1.275	1.281	2.5
Chrysene		1.281	1.233	1.308	1.306	1.263	1.278	2.3
Bis(2-ethylhexyl)phthalate		0.504	0.582	0.685	0.757	0.751	0.693	15.9
Di-n-octyl phthalate			0.892	1.108	1.239	1.256	1.195	14.3
Benzo(b)fluoranthene		1.150	1.146	1.269	1.216	1.232	1.209	3.8
Benzo(k)fluoranthene		1.111	1.189	1.281	1.255	1.205	1.213	4.5
Benzo(a)pyrene		0.993	1.022	1.124	1.107	1.106	1.077	4.6
Indeno(1,2,3-cd)pyrene		1.223	1.232	1.408	1.376	1.354	1.338	5.8

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.029	1.036	1.151	1.133	1.134	1.109	4.9
Benzo(g,h,i)perylene		1.049	1.093	1.208	1.152	1.146	1.139	4.6
1,2,4,5-Tetrachlorobenzene		0.547	0.584	0.592	0.586	0.560	0.571	2.9
1,4-Dioxane		0.598	0.605	0.624	0.585	0.559	0.580	5.3
2,3,4,6-Tetrachlorophenol		0.262	0.326	0.388	0.395	0.385	0.365	14.2

All other compounds must meet a minimum RRF of 0.010.