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: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_M Calibration Date(s): 10/23/2024 10/23/2024

Calibration Time(s): 12:26 17:02

LAB FILE ID: RRF2.5 = BM048200.D RRF005 = BM048201.D RRF010 = BM048202.D
RRF020 = BM048203.D RRF040 = BM048204.D RRF050 = BM048205.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.238	1.182	1.198	1.216	1.162	1.190	2.6
Benzaldehyde		0.865	0.868	0.830	0.760	0.643	0.761	15.1
Phenol-d6		1.555	1.545	1.578	1.594	1.523	1.550	2.2
Phenol		1.544	1.538	1.584	1.600	1.543	1.559	1.9
bis(2-Chloroethyl)ether		1.238	1.275	1.240	1.281	1.221	1.242	2.3
2-Chlorophenol		1.337	1.282	1.302	1.323	1.264	1.293	2.4
2-Methylphenol		0.992	1.032	1.076	1.067	1.030	1.036	3.0
2,2-oxybis(1-Chloropropane)		1.972	1.875	1.875	1.837	1.751	1.816	5.8
Acetophenone		0.493	0.488	0.505	0.502	0.480	0.488	3.0
3+4-Methylphenols		1.412	1.374	1.453	1.515	1.439	1.435	3.3
n-Nitroso-di-n-propylamine	1.020	1.036	0.993	1.014	1.010	0.945	0.980	5.4
Nitrobenzene-d5		0.347	0.348	0.362	0.369	0.353	0.354	2.6
Hexachloroethane		0.602	0.565	0.556	0.565	0.532	0.555	4.7
Nitrobenzene		0.367	0.363	0.375	0.379	0.365	0.367	2.4
Isophorone		0.652	0.638	0.664	0.672	0.642	0.649	2.6
2-Nitrophenol		0.145	0.151	0.169	0.180	0.178	0.169	9.1
2,4-Dimethylphenol		0.192	0.195	0.210	0.215	0.207	0.206	4.3
bis(2-Chloroethoxy)methane		0.398	0.403	0.422	0.428	0.407	0.411	2.8
2,4-Dichlorophenol		0.270	0.279	0.300	0.311	0.301	0.296	5.2
Naphthalene		1.097	1.048	1.065	1.062	1.012	1.043	3.5
4-Chloroaniline		0.320	0.330	0.367	0.376	0.342	0.338	7.8
Hexachlorobutadiene		0.219	0.212	0.215	0.214	0.203	0.210	3.3
Caprolactam		0.087	0.089	0.097	0.104	0.097	0.096	6.3
4-Chloro-3-methylphenol		0.291	0.296	0.318	0.324	0.309	0.309	3.9
2-Methylnaphthalene		0.726	0.694	0.719	0.716	0.678	0.697	3.6
Hexachlorocyclopentadiene		0.179	0.187	0.195	0.202	0.200	0.193	4.4
2,4,6-Trichlorophenol		0.357	0.369	0.382	0.394	0.381	0.379	3.4
2-Fluorobiphenyl		1.391	1.358	1.338	1.333	1.258	1.303	5.5
2,4,5-Trichlorophenol		0.411	0.407	0.420	0.441	0.423	0.423	2.9
1,1-Biphenyl		1.476	1.458	1.454	1.454	1.396	1.428	3.1
2-Chloronaphthalene		1.153	1.136	1.139	1.149	1.108	1.126	2.5
2-Nitroaniline		0.258	0.279	0.309	0.329	0.319	0.305	8.8
Dimethylphthalate		1.451	1.384	1.382	1.396	1.306	1.365	4.0
Acenaphthylene		1.661	1.634	1.674	1.693	1.613	1.643	2.3

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		0.273	0.290	0.312	0.321	0.310	0.305	5.6
3-Nitroaniline		0.229	0.265	0.300	0.321	0.305	0.287	10.7
Acenaphthene		1.098	1.062	1.058	1.064	1.018	1.044	3.7
2,4-Dinitrophenol			0.136	0.164	0.188	0.189	0.178	13.2
4-Nitrophenol			0.203	0.245	0.277	0.266	0.256	11.1
Dibenzofuran		1.766	1.710	1.701	1.702	1.590	1.658	5.0
2,4-Dinitrotoluene		0.338	0.371	0.406	0.437	0.417	0.402	8.8
Diethylphthalate		1.445	1.389	1.397	1.424	1.340	1.382	3.4
4-Chlorophenyl-phenylether		0.700	0.687	0.685	0.671	0.623	0.656	6.1
Fluorene		1.412	1.361	1.378	1.351	1.248	1.311	6.6
4-Nitroaniline		0.213	0.247	0.300	0.339	0.320	0.297	16.4
4,6-Dinitro-2-methylphenol		0.087	0.098	0.116	0.129	0.124	0.116	14.7
n-Nitrosodiphenylamine		0.549	0.556	0.565	0.570	0.538	0.549	3.0
2,4,6-Tribromophenol		0.241	0.246	0.252	0.259	0.240	0.245	3.4
4-Bromophenyl-phenylether		0.205	0.205	0.204	0.208	0.199	0.203	2.1
Hexachlorobenzene		0.252	0.249	0.245	0.251	0.236	0.244	3.2
Atrazine		0.176	0.172	0.150	0.186	0.111	0.154	19.4
Pentachlorophenol		0.145	0.150	0.161	0.172	0.160	0.160	5.9
Phenanthrene		1.043	1.012	1.008	1.017	0.953	0.990	4.1
Anthracene		0.960	0.952	0.985	0.998	0.944	0.959	2.8
Carbazole		0.911	0.923	0.958	0.994	0.927	0.940	3.2
Di-n-butylphthalate		1.131	1.114	1.164	1.241	1.170	1.170	3.7
Fluoranthene		1.236	1.185	1.210	1.223	1.137	1.181	3.8
Pyrene		1.336	1.312	1.332	1.358	1.335	1.339	1.4
Terphenyl-d14		1.013	1.003	1.005	1.009	0.955	0.980	4.0
Butylbenzylphthalate		0.490	0.502	0.542	0.589	0.583	0.560	8.7
3,3-Dichlorobenzidine		0.432	0.435	0.442	0.473	0.427	0.438	3.8
Benzo(a)anthracene		1.299	1.258	1.277	1.297	1.264	1.278	1.5
Chrysene		1.273	1.224	1.242	1.244	1.203	1.227	2.5
Bis(2-ethylhexyl)phthalate		0.735	0.758	0.813	0.861	0.839	0.814	6.1
Di-n-octyl phthalate		1.206	1.220	1.357	1.491	1.485	1.409	10.6
Benzo(b)fluoranthene		1.142	1.113	1.179	1.182	1.148	1.147	2.3
Benzo(k)fluoranthene		1.134	1.146	1.109	1.147	1.054	1.109	3.8
Benzo(a)pyrene		0.983	0.965	1.007	1.034	0.990	0.997	2.4
Indeno(1,2,3-cd)pyrene		1.293	1.288	1.343	1.373	1.305	1.323	2.6

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Dibenzo(a,h)anthracene		1.093	1.074	1.122	1.147	1.086	1.101	2.6
Benzo(g,h,i)perylene		1.131	1.099	1.138	1.156	1.111	1.128	2.1
1,2,4,5-Tetrachlorobenzene		0.588	0.575	0.572	0.578	0.563	0.572	1.9
1,4-Dioxane		0.538	0.529	0.508	0.502	0.451	0.487	8.7
2,3,4,6-Tetrachlorophenol		0.356	0.353	0.355	0.370	0.337	0.351	3.3

All other compounds must meet a minimum RRF of 0.010.