Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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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_M Calibration Date(s): 03/13/2025 03/13/2025

Calibration Time(s): 09:02 13:37

LAB FILE ID: RRF2.5 = BM049706.D RRF005 = BM049707.D RRF010 = BM049708.D
RRF020 = BM049709.D RRF040 = BM049710.D RRF050 = BM049711.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.027	1.092	1.201	1.176	1.239	1.185	8.1
Benzaldehyde			0.864	0.830	0.683	0.685	0.735	14.5
Phenol-d6		1.325	1.383	1.498	1.470	1.553	1.488	6.9
Phenol		1.356	1.372	1.463	1.400	1.478	1.442	4.6
bis(2-Chloroethyl)ether		1.132	1.141	1.189	1.122	1.178	1.168	3.1
2-Chlorophenol		1.091	1.111	1.193	1.148	1.209	1.174	4.9
2-Methylphenol		0.769	0.805	0.876	0.847	0.890	0.856	6.1
2,2-oxybis(1-Chloropropane)		1.386	1.374	1.425	1.323	1.367	1.373	2.2
Acetophenone		0.480	0.483	0.516	0.506	0.527	0.516	5.4
3+4-Methylphenols		1.022	1.077	1.168	1.139	1.183	1.148	6.6
n-Nitroso-di-n-propylamine	0.766	0.820	0.815	0.892	0.867	0.901	0.863	6.5
Nitrobenzene-d5		0.343	0.361	0.392	0.385	0.403	0.390	7.6
Hexachloroethane		0.481	0.488	0.512	0.499	0.522	0.508	3.9
Nitrobenzene		0.340	0.341	0.375	0.360	0.375	0.367	5.8
Isophorone		0.531	0.533	0.599	0.590	0.619	0.598	8.8
2-Nitrophenol		0.115	0.129	0.153	0.158	0.171	0.156	17.0
2,4-Dimethylphenol		0.169	0.179	0.199	0.197	0.209	0.199	10.0
bis(2-Chloroethoxy)methane		0.399	0.389	0.430	0.407	0.431	0.421	5.6
2,4-Dichlorophenol		0.272	0.289	0.328	0.323	0.342	0.324	10.3
Naphthalene		0.947	0.952	1.029	0.998	1.059	1.028	6.5
4-Chloroaniline		0.315	0.329	0.359	0.350	0.357	0.351	6.3
Hexachlorobutadiene		0.224	0.229	0.254	0.243	0.261	0.250	7.8
Caprolactam		0.058	0.061	0.073	0.078	0.079	0.075	16.1
4-Chloro-3-methylphenol		0.233	0.240	0.273	0.281	0.289	0.278	12.0
2-Methylnaphthalene		0.663	0.656	0.713	0.704	0.735	0.719	7.1
Hexachlorocyclopentadiene		0.223	0.232	0.266	0.275	0.300	0.272	12.5
2,4,6-Trichlorophenol		0.315	0.344	0.404	0.418	0.448	0.411	15.2
2-Fluorobiphenyl		1.388	1.419	1.563	1.587	1.696	1.597	9.6
2,4,5-Trichlorophenol		0.358	0.385	0.443	0.458	0.478	0.449	13.1
1,1-Biphenyl		1.398	1.399	1.539	1.523	1.606	1.541	7.3
2-Chloronaphthalene		1.085	1.115	1.194	1.177	1.244	1.200	6.8
2-Nitroaniline		0.193	0.225	0.262	0.280	0.294	0.269	17.3
Dimethylphthalate		1.253	1.262	1.377	1.370	1.402	1.377	7.0
Acenaphthylene		1.455	1.502	1.656	1.671	1.755	1.677	9.4

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		0.225	0.246	0.274	0.281	0.288	0.276	11.3
3-Nitroaniline		0.198	0.222	0.259	0.273	0.277	0.263	15.4
Acenaphthene		0.979	0.985	1.072	1.101	1.145	1.100	8.7
2,4-Dinitrophenol			0.083	0.111	0.132	0.145	0.134	24.7
4-Nitrophenol			0.172	0.210	0.233	0.232	0.229	15.1
Dibenzofuran		1.664	1.705	1.814	1.791	1.882	1.833	7.0
2,4-Dinitrotoluene		0.260	0.294	0.345	0.371	0.379	0.355	17.0
Diethylphthalate		1.135	1.170	1.285	1.299	1.338	1.297	8.9
4-Chlorophenyl-phenylether		0.666	0.702	0.783	0.818	0.870	0.815	13.1
Fluorene		1.255	1.297	1.454	1.498	1.564	1.492	11.7
4-Nitroaniline		0.182	0.219	0.267	0.299	0.297	0.274	20.1
4,6-Dinitro-2-methylphenol			0.067	0.087	0.100	0.109	0.102	21.8
n-Nitrosodiphenylamine		0.530	0.530	0.603	0.600	0.644	0.606	9.7
2,4,6-Tribromophenol		0.173	0.193	0.226	0.250	0.270	0.234	19.2
4-Bromophenyl-phenylether		0.192	0.201	0.227	0.226	0.249	0.231	12.1
Hexachlorobenzene		0.229	0.232	0.253	0.251	0.274	0.260	9.8
Atrazine		0.146	0.151	0.144	0.128	0.098	0.134	16.1
Pentachlorophenol			0.118	0.145	0.161	0.171	0.163	17.9
Phenanthrene		0.968	1.001	1.085	1.093	1.158	1.111	9.5
Anthracene		0.892	0.933	1.055	1.066	1.144	1.076	12.1
Carbazole		0.785	0.855	0.952	0.991	1.016	0.974	12.6
Di-n-butylphthalate		0.808	0.885	1.042	1.082	1.164	1.068	16.1
Fluoranthene		0.974	1.060	1.203	1.300	1.353	1.279	17.0
Pyrene		1.240	1.253	1.390	1.328	1.468	1.397	9.4
Terphenyl-d14		0.978	1.021	1.204	1.207	1.352	1.187	12.6
Butylbenzylphthalate		0.323	0.352	0.428	0.432	0.482	0.434	17.2
3,3-Dichlorobenzidine			0.317	0.396	0.411	0.474	0.435	17.4
Benzo(a)anthracene		1.149	1.186	1.318	1.307	1.414	1.336	10.2
Chrysene		1.072	1.134	1.259	1.242	1.333	1.266	10.4
Bis(2-ethylhexyl)phthalate		0.491	0.541	0.678	0.678	0.771	0.676	18.0
Di-n-octyl phthalate			0.774	0.954	1.009	1.146	1.050	17.0
Benzo(b)fluoranthene		1.088	1.138	1.297	1.330	1.433	1.347	14.5
Benzo(k)fluoranthene		1.086	1.148	1.294	1.291	1.408	1.326	13.2
Benzo(a)pyrene		0.899	0.948	1.085	1.120	1.210	1.131	15.3
Indeno(1,2,3-cd)pyrene		1.135	1.213	1.382	1.431	1.567	1.440	15.0

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
Dibenzo(a,h)anthracene		0.940	1.023	1.151	1.188	1.299	1.199	14.9
Benzo(g,h,i)perylene		0.990	1.043	1.173	1.203	1.296	1.208	12.8
1,2,4,5-Tetrachlorobenzene		0.633	0.653	0.724	0.720	0.781	0.735	10.2
1,4-Dioxane		0.503	0.485	0.525	0.497	0.512	0.513	3.8
2,3,4,6-Tetrachlorophenol		0.292	0.325	0.366	0.385	0.394	0.376	14.4

All other compounds must meet a minimum RRF of 0.010.