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: CHEM02

Lab Code: CHEM Case No.: Q1180 SAS No.: Q1180 SDG No.: Q1180

Instrument ID: BNA_M Calibration Date(s): 01/28/2025 01/28/2025

Calibration Time(s): 10:52 14:08

LAB FILE ID: RRFAL1 = BM049463.D RRFAL2 = BM049464.D RRFAL3 = BM049465.D
RRFAL4 = BM049466.D RRFAL5 = BM049467.D RRFAL6 = BM049468.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.504	0.539	0.683	0.564	0.547		0.567	12.1
Benzaldehyde		1.001	1.280	0.948	0.696	0.531	0.891	32.4
Hexachloroethane	0.510	0.526	0.654	0.586	0.573		0.570	10.0
Nitrobenzene	0.368	0.377	0.470	0.420	0.409		0.409	9.8
Isophorone	0.665	0.649	0.838	0.751	0.750		0.731	10.5
2-Nitrophenol	0.154	0.162	0.215	0.196	0.199		0.185	14.0
2,4-Dimethylphenol	0.310	0.311	0.395	0.345	0.344		0.341	10.2
Bis(2-Chloroethoxy)methane	0.417	0.413	0.531	0.466	0.461		0.458	10.4
2,4-Dichlorophenol	0.300	0.304	0.402	0.356	0.350		0.342	12.3
Naphthalene	0.989	0.974	1.208	1.082	1.072		1.065	8.8
4-Chloroaniline		0.347	0.462	0.418	0.424	0.439	0.418	10.3
Hexachlorobutadiene	0.238	0.239	0.297	0.259	0.249		0.257	9.5
Phenol		1.500	1.919	1.678	1.672	1.749	1.703	8.9
Caprolactam		0.074	0.102	0.095	0.098	0.104	0.094	12.7
4-Chloro-3-methylphenol	0.251	0.254	0.341	0.313	0.319		0.296	13.7
2-Methylnaphthalene	0.659	0.657	0.826	0.745	0.745		0.726	9.7
Hexachlorocyclopentadiene		0.365	0.476	0.437	0.436	0.449	0.432	9.5
2,4,6-Trichlorophenol	0.362	0.388	0.506	0.456	0.461		0.435	13.4
2,4,5-Trichlorophenol	0.379	0.401	0.527	0.486	0.492		0.457	13.9
1,1-Biphenyl	1.370	1.412	1.713	1.554	1.539		1.517	8.9
2-Chloronaphthalene	1.108	1.146	1.411	1.258	1.228		1.230	9.6
2-Nitroaniline	0.239	0.254	0.360	0.340	0.352		0.309	18.6
Bis(2-Chloroethyl)ether		1.266	1.589	1.361	1.348	1.381	1.389	8.6
Dimethylphthalate	1.353	1.350	1.659	1.470	1.452		1.457	8.6
2,6-Dinitrotoluene	0.205	0.214	0.302	0.289	0.300		0.262	18.4
Acenaphthylene	1.566	1.613	2.019	1.840	1.813		1.770	10.4
3-Nitroaniline		0.188	0.288	0.272	0.273	0.280	0.260	15.7
Acenaphthene	1.135	1.164	1.433	1.296	1.290		1.264	9.4
2,4-Dinitrophenol		0.093	0.151	0.164	0.187	0.215	0.162	28.1
4-Nitrophenol		0.118	0.188	0.183	0.196	0.195	0.176	18.6
Dibenzofuran	1.633	1.684	2.083	1.845	1.765		1.802	9.8
2,4-Dinitrotoluene	0.315	0.330	0.452	0.425	0.437		0.392	16.4
Diethylphthalate	1.249	1.241	1.589	1.432	1.404		1.383	10.4
2-Chlorophenol	1.177	1.169	1.503	1.309	1.327		1.297	10.5

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.288	1.317	1.693	1.523	1.459		1.456	11.3
4-Chlorophenyl-phenylether	0.716	0.724	0.913	0.807	0.789		0.790	10.1
4-Nitroaniline		0.192	0.288	0.259	0.239	0.224	0.240	15.1
4,6-Dinitro-2-methylphenol		0.102	0.147	0.143	0.148	0.151	0.138	14.9
N-Nitrosodiphenylamine	0.515	0.539	0.692	0.630	0.606		0.596	11.9
1,2,4,5-Tetrachlorobenzene	0.661	0.688	0.841	0.753	0.743		0.737	9.4
4-Bromophenyl-phenylether	0.200	0.203	0.265	0.239	0.235		0.228	11.8
Hexachlorobenzene	0.238	0.243	0.301	0.270	0.266		0.264	9.5
Atrazine		0.203	0.266	0.239	0.236	0.230	0.235	9.5
Pentachlorophenol		0.128	0.171	0.167	0.175	0.189	0.166	13.8
2-Methylphenol		1.015	1.316	1.171	1.204	1.263	1.194	9.6
Phenanthrene	0.995	1.025	1.296	1.164	1.150		1.126	10.7
Anthracene	0.999	1.024	1.305	1.185	1.157		1.134	11.0
Carbazole		0.865	1.139	1.038	1.023	1.003	1.014	9.7
Di-n-butylphthalate	0.982	0.998	1.340	1.237	1.231		1.158	13.7
Fluoranthene	1.278	1.192	1.513	1.369	1.325		1.335	8.9
Pyrene	1.370	1.294	1.630	1.476	1.413		1.437	8.8
Butylbenzylphthalate	0.406	0.401	0.558	0.525	0.530		0.484	15.3
3,3-Dichlorobenzidine		0.331	0.441	0.388	0.387	0.352	0.380	11.0
2,2-oxybis(1-Chloropropane)		2.012	2.485	2.117	2.041	2.044	2.140	9.2
Benzo(a)anthracene	1.274	1.265	1.609	1.443	1.434		1.405	10.1
Chrysene	1.169	1.194	1.508	1.329	1.324		1.305	10.4
Bis(2-ethylhexyl)phthalate	0.580	0.584	0.834	0.778	0.780		0.711	16.9
Di-n-octyl phthalate		0.876	1.304	1.225	1.335	1.377	1.223	16.5
Benzo(b)fluoranthene	1.120	1.117	1.500	1.340	1.405		1.296	13.3
Benzo(k)fluoranthene	1.144	1.155	1.477	1.364	1.409		1.310	11.6
Benzo(a)pyrene	1.030	1.055	1.399	1.280	1.316		1.216	13.5
Indeno(1,2,3-cd)pyrene	1.200	1.343	1.731	1.606	1.657		1.507	15.0
Dibenzo(a,h)anthracene	0.945	1.097	1.404	1.306	1.355		1.221	15.8
Benzo(g,h,i)perylene	0.920	1.046	1.313	1.206	1.245		1.146	13.9
Acetophenone		1.751	2.248	1.981	1.966	1.940	1.977	9.0
2,3,4,6-Tetrachlorophenol	0.315	0.329	0.428	0.392	0.396		0.372	12.9
1,4-Dioxane-d8	0.509	0.528	0.621	0.530	0.511		0.540	8.6
Pyridine-d5		1.408	1.791	1.576	1.572	1.584	1.586	8.6
Phenol-d5		1.386	1.804	1.604	1.615	1.706	1.623	9.5

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		1.024	1.280	1.101	1.060	1.084	1.110	9.0
2-Chlorophenol-d4	1.097	1.129	1.469	1.287	1.297		1.256	11.9
4-Methylphenol-d8		0.997	1.313	1.170	1.200	1.265	1.189	10.2
Nitrobenzene-d5	0.129	0.134	0.177	0.161	0.163		0.153	13.3
2-Nitrophenol-d4	0.132	0.141	0.195	0.181	0.186		0.167	17.1
2,4-Dichlorophenol-d3	0.290	0.300	0.396	0.360	0.357		0.341	13.1
4-Chloroaniline-d4		0.361	0.484	0.435	0.445	0.460	0.437	10.6
4-Methylphenol		1.104	1.424	1.259	1.290	1.365	1.288	9.4
Dimethylphthalate-d6	1.328	1.351	1.688	1.503	1.463		1.466	9.8
Acenaphthylene-d8	1.488	1.575	1.966	1.801	1.785		1.723	11.1
4-Nitrophenol-d4		0.158	0.250	0.249	0.268	0.278	0.241	20.0
Fluorene-d10	1.133	1.188	1.499	1.321	1.307		1.290	11.0
4,6-Dinitro-2-methylphenol-		0.089	0.131	0.130	0.137	0.143	0.126	16.9
Anthracene-d10	0.883	0.895	1.153	1.040	1.023		0.999	11.2
Pyrene-d10	1.101	1.047	1.326	1.211	1.162		1.169	9.2
Benzo(a)pyrene-d12	0.878	0.930	1.221	1.130	1.175		1.067	14.4
N-Nitroso-di-n-propylamine	0.963	0.925	1.199	1.056	1.041		1.037	10.2

All other compounds must meet a minimum RRF of 0.010.