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.: Q2258 SAS No.: Q2258 SDG No.: Q2258

Instrument ID: BNA_N Calibration Date(s): 06/19/2025 06/19/2025

Calibration Time(s): 11:00 14:16

LAB FILE ID: RRFAL1 = BN037340.D RRFAL2 = BN037341.D RRFAL3 = BN037342.D
RRFAL4 = BN037343.D RRFAL5 = BN037344.D RRFAL6 = BN037345.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.401	0.473	0.453	0.413	0.418		0.431	7.0
Benzaldehyde		0.783	0.805	0.782	0.577	0.342	0.658	30.3
Hexachloroethane	0.502	0.578	0.545	0.539	0.523		0.537	5.2
Nitrobenzene	0.366	0.407	0.420	0.403	0.391		0.397	5.0
Isophorone	0.520	0.598	0.636	0.664	0.640		0.612	9.2
2-Nitrophenol	0.156	0.170	0.190	0.195	0.194		0.181	9.6
2,4-Dimethylphenol	0.328	0.364	0.373	0.366	0.361		0.358	5.0
Bis(2-Chloroethoxy)methane	0.314	0.339	0.386	0.404	0.394		0.367	10.7
2,4-Dichlorophenol	0.343	0.386	0.390	0.390	0.383		0.379	5.3
Naphthalene	0.942	1.003	1.036	1.040	0.999		1.004	3.9
4-Chloroaniline		0.360	0.390	0.400	0.388	0.394	0.387	4.1
Hexachlorobutadiene	0.438	0.429	0.404	0.382	0.375		0.406	6.8
Phenol		1.117	1.145	1.207	1.219	1.216	1.181	4.0
Caprolactam		0.064	0.077	0.083	0.084	0.091	0.079	12.9
4-Chloro-3-methylphenol	0.258	0.282	0.316	0.320	0.311		0.298	9.0
2-Methylnaphthalene	0.714	0.754	0.792	0.791	0.766		0.763	4.2
Hexachlorocyclopentadiene		0.626	0.621	0.618	0.643	0.648	0.631	2.1
2,4,6-Trichlorophenol	0.419	0.453	0.473	0.484	0.498		0.465	6.6
2,4,5-Trichlorophenol	0.510	0.506	0.529	0.533	0.539		0.523	2.8
1,1-Biphenyl	1.281	1.412	1.481	1.518	1.459		1.430	6.4
2-Chloronaphthalene	1.095	1.158	1.206	1.231	1.209		1.180	4.6
2-Nitroaniline	0.180	0.226	0.275	0.286	0.276		0.249	18.0
Bis(2-Chloroethyl)ether		0.856	0.910	1.000	0.998	0.949	0.943	6.5
Dimethylphthalate	1.344	1.386	1.493	1.523	1.417		1.433	5.2
2,6-Dinitrotoluene	0.245	0.261	0.297	0.314	0.314		0.286	11.1
Acenaphthylene	1.595	1.641	1.782	1.857	1.815		1.738	6.6
3-Nitroaniline		0.186	0.222	0.237	0.229	0.214	0.218	9.0
Acenaphthene	1.085	1.136	1.219	1.241	1.192		1.175	5.4
2,4-Dinitrophenol		0.147	0.182	0.202	0.218	0.248	0.199	19.1
4-Nitrophenol		0.226	0.247	0.220	0.209	0.217	0.224	6.5
Dibenzofuran	1.747	1.802	1.868	1.875	1.795		1.818	3.0
2,4-Dinitrotoluene	0.349	0.388	0.443	0.456	0.439		0.415	10.9
Diethylphthalate	1.230	1.289	1.436	1.435	1.347		1.347	6.7
2-Chlorophenol	0.943	1.036	1.031	1.059	1.059		1.026	4.7

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	1.334	1.432	1.535	1.510	1.458		1.454	5.4
4-Chlorophenyl-phenylether	0.866	0.919	0.913	0.906	0.894		0.900	2.3
4-Nitroaniline		0.178	0.225	0.232	0.206	0.182	0.205	11.9
4,6-Dinitro-2-methylphenol		0.129	0.133	0.147	0.159	0.167	0.147	11.1
N-Nitrosodiphenylamine	0.502	0.546	0.536	0.598	0.598		0.556	7.5
1,2,4,5-Tetrachlorobenzene	0.833	0.818	0.819	0.828	0.828		0.825	0.8
4-Bromophenyl-phenylether	0.237	0.242	0.237	0.255	0.259		0.246	4.2
Hexachlorobenzene	0.268	0.275	0.271	0.280	0.291		0.277	3.3
Atrazine		0.236	0.245	0.249	0.261	0.264	0.251	4.7
Pentachlorophenol		0.158	0.174	0.186	0.196	0.207	0.184	10.2
2-Methylphenol		0.853	0.861	0.935	0.926	0.902	0.895	4.2
Phenanthrene	1.008	1.072	1.088	1.129	1.141		1.087	4.9
Anthracene	1.017	1.089	1.107	1.147	1.150		1.102	4.9
Carbazole		0.859	0.895	0.940	0.917	0.938	0.910	3.7
Di-n-butylphthalate	0.807	0.934	1.033	1.074	1.058		0.981	11.4
Fluoranthene	1.128	1.132	1.286	1.378	1.316		1.248	9.0
Pyrene	1.175	1.239	1.387	1.408	1.360		1.314	7.7
Butylbenzylphthalate	0.289	0.341	0.427	0.450	0.452		0.392	18.7
3,3-Dichlorobenzidine		0.366	0.413	0.416	0.426	0.417	0.408	5.8
2,2-oxybis(1-Chloropropane)		0.713	0.773	0.862	0.836	0.781	0.793	7.3
Benzo(a)anthracene	1.260	1.353	1.411	1.355	1.376		1.351	4.2
Chrysene	1.147	1.225	1.321	1.276	1.303		1.255	5.6
Bis(2-ethylhexyl)phthalate	0.427	0.518	0.637	0.670	0.681		0.586	18.7
Di-n-octyl phthalate		0.708	0.921	1.059	1.119	1.131	0.988	17.9
Benzo(b)fluoranthene	1.065	1.126	1.265	1.331	1.398		1.237	11.3
Benzo(k)fluoranthene	1.091	1.212	1.295	1.333	1.383		1.263	9.1
Benzo(a)pyrene	0.977	1.084	1.216	1.239	1.294		1.162	11.1
Indeno(1,2,3-cd)pyrene	1.324	1.537	1.654	1.593	1.675		1.557	9.0
Dibenzo(a,h)anthracene	1.100	1.270	1.325	1.303	1.371		1.274	8.1
Benzo(g,h,i)perylene	1.115	1.278	1.381	1.299	1.331		1.281	7.8
Acetophenone		1.534	1.531	1.583	1.550	1.517	1.543	1.6
2,3,4,6-Tetrachlorophenol	0.414	0.444	0.451	0.452	0.465		0.445	4.3
1,4-Dioxane-d8	0.308	0.383	0.411	0.387	0.383		0.374	10.4
Pyridine-d5		0.943	1.021	1.005	1.025	1.008	1.000	3.3
Phenol-d5		1.063	1.131	1.183	1.202	1.186	1.153	4.9

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.690	0.699	0.764	0.742	0.698	0.719	4.5
2-Chlorophenol-d4	0.928	1.016	1.031	1.082	1.056		1.022	5.7
4-Methylphenol-d8		0.878	0.916	0.989	0.967	0.970	0.944	4.8
Nitrobenzene-d5	0.123	0.142	0.153	0.156	0.158		0.147	9.8
2-Nitrophenol-d4	0.155	0.167	0.181	0.194	0.197		0.179	10.0
2,4-Dichlorophenol-d3	0.355	0.378	0.396	0.405	0.405		0.388	5.5
4-Chloroaniline-d4		0.360	0.397	0.399	0.393	0.400	0.390	4.3
4-Methylphenol		0.976	0.925	0.996	0.978	0.966	0.968	2.7
Dimethylphthalate-d6	1.392	1.429	1.493	1.575	1.488		1.475	4.7
Acenaphthylene-d8	1.454	1.534	1.684	1.746	1.697		1.623	7.6
4-Nitrophenol-d4		0.169	0.216	0.228	0.234	0.248	0.219	13.8
Fluorene-d10	1.242	1.298	1.390	1.376	1.360		1.333	4.6
4,6-Dinitro-2-methylphenol-		0.122	0.126	0.143	0.159	0.164	0.143	13.3
Anthracene-d10	0.948	0.969	0.971	1.039	1.014		0.988	3.7
Pyrene-d10	0.974	0.991	1.144	1.165	1.166		1.088	8.9
Benzo(a)pyrene-d12	0.850	0.972	1.085	1.116	1.173		1.039	12.4
N-Nitroso-di-n-propylamine	0.641	0.747	0.725	0.785	0.767		0.733	7.6

All other compounds must meet a minimum RRF of 0.010.