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.: Q1124 SAS No.: Q1124 SDG No.: Q1124

Instrument ID: BNA_P Calibration Date(s): 01/14/2025 01/14/2025

Calibration Time(s): 12:39 16:02

LAB FILE ID: RRFAL1 = BP023607.D RRFAL2 = BP023608.D RRFAL3 = BP023603.D
RRFAL4 = BP023604.D RRFAL5 = BP023605.D RRFAL6 = BP023606.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.662	0.566	0.611	0.522	0.509		0.574	11.0
Benzaldehyde		1.074	1.275	1.019	0.762	0.521	0.930	31.5
Hexachloroethane	0.667	0.562	0.608	0.539	0.547		0.584	9.1
Nitrobenzene	0.413	0.354	0.381	0.358	0.351		0.372	7.1
Isophorone	0.827	0.709	0.778	0.749	0.710		0.755	6.6
2-Nitrophenol	0.129	0.118	0.122	0.133	0.156		0.131	11.3
2,4-Dimethylphenol	0.402	0.346	0.373	0.353	0.345		0.364	6.6
Bis(2-Chloroethoxy)methane	0.536	0.454	0.493	0.452	0.434		0.474	8.7
2,4-Dichlorophenol	0.344	0.296	0.319	0.306	0.313		0.316	5.6
Naphthalene	1.373	1.143	1.224	1.110	1.074		1.185	10.0
4-Chloroaniline		0.456	0.491	0.473	0.461	0.447	0.466	3.6
Hexachlorobutadiene	0.244	0.202	0.217	0.191	0.192		0.209	10.6
Phenol		1.775	1.943	1.810	1.795	1.854	1.835	3.6
Caprolactam		0.105	0.108	0.120	0.119	0.125	0.115	7.3
4-Chloro-3-methylphenol	0.327	0.296	0.325	0.330	0.330		0.322	4.5
2-Methylnaphthalene	0.900	0.756	0.826	0.777	0.745		0.801	8.0
Hexachlorocyclopentadiene		0.222	0.254	0.240	0.273	0.285	0.255	9.9
2,4,6-Trichlorophenol	0.344	0.319	0.346	0.344	0.364		0.344	4.7
2,4,5-Trichlorophenol	0.400	0.346	0.380	0.384	0.401		0.382	5.8
1,1-Biphenyl	1.895	1.611	1.732	1.551	1.486		1.655	9.8
2-Chloronaphthalene	1.504	1.247	1.342	1.200	1.153		1.289	10.8
2-Nitroaniline	0.252	0.227	0.248	0.265	0.283		0.255	8.2
Bis(2-Chloroethyl)ether		1.436	1.619	1.429	1.399	1.378	1.452	6.6
Dimethylphthalate	1.798	1.512	1.579	1.505	1.425		1.564	9.1
2,6-Dinitrotoluene	0.230	0.207	0.235	0.257	0.272		0.240	10.4
Acenaphthylene	2.290	1.937	2.104	1.914	1.787		2.006	9.7
3-Nitroaniline		0.251	0.290	0.296	0.290	0.286	0.283	6.4
Acenaphthene	1.614	1.355	1.464	1.324	1.270		1.405	9.7
2,4-Dinitrophenol		0.053	0.054	0.064	0.086	0.123	0.076	38.7
4-Nitrophenol		0.191	0.194	0.211	0.203	0.205	0.201	4.2
Dibenzofuran	2.219	1.860	2.001	1.784	1.702		1.913	10.6
2,4-Dinitrotoluene	0.336	0.308	0.362	0.397	0.412		0.363	11.8
Diethylphthalate	1.742	1.463	1.552	1.511	1.441		1.542	7.8
2-Chlorophenol	1.618	1.372	1.518	1.378	1.393		1.456	7.5

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	1.827	1.533	1.668	1.563	1.441		1.606	9.2
4-Chlorophenyl-phenylether	0.886	0.754	0.821	0.750	0.713		0.785	8.8
4-Nitroaniline		0.271	0.334	0.342	0.290	0.247	0.297	13.6
4,6-Dinitro-2-methylphenol		0.052	0.057	0.071	0.093	0.114	0.077	33.6
N-Nitrosodiphenylamine	0.759	0.645	0.696	0.635	0.614		0.670	8.7
1,2,4,5-Tetrachlorobenzene	0.761	0.631	0.688	0.612	0.608		0.660	9.8
4-Bromophenyl-phenylether	0.265	0.227	0.246	0.227	0.226		0.238	7.2
Hexachlorobenzene	0.335	0.280	0.300	0.271	0.275		0.292	9.0
Atrazine		0.222	0.237	0.236	0.238	0.229	0.232	2.8
Pentachlorophenol		0.115	0.122	0.139	0.161	0.176	0.143	18.1
2-Methylphenol		1.242	1.403	1.319	1.334	1.399	1.340	4.9
Phenanthrene	1.435	1.215	1.283	1.211	1.125		1.254	9.3
Anthracene	1.424	1.247	1.289	1.209	1.121		1.258	8.9
Carbazole		1.124	1.178	1.141	1.071	0.711	1.045	18.2
Di-n-butylphthalate	1.232	1.163	1.227	1.268	1.178		1.214	3.5
Fluoranthene	1.421	1.202	1.356	1.217	1.140		1.267	9.2
Pyrene	1.628	1.362	1.501	1.311	1.103		1.381	14.4
Butylbenzylphthalate	0.299	0.329	0.320	0.388	0.478		0.363	20.0
3,3-Dichlorobenzidine		0.276	0.345	0.351	0.366	0.358	0.339	10.7
2,2-oxybis(1-Chloropropane)		1.505	1.703	1.501	1.435	1.376	1.504	8.2
Benzo(a)anthracene	1.623	1.378	1.480	1.342	1.286		1.422	9.3
Chrysene	1.550	1.294	1.393	1.246	1.138		1.324	11.8
Bis(2-ethylhexyl)phthalate	0.535	0.571	0.577	0.660	0.751		0.619	14.1
Di-n-octyl phthalate		0.653	0.709	0.891	1.093	0.862	0.842	20.5
Benzo(b)fluoranthene	1.290	1.137	1.298	1.297	1.261		1.257	5.5
Benzo(k)fluoranthene	1.474	1.294	1.471	1.362	1.284		1.377	6.7
Benzo(a)pyrene	1.281	1.148	1.295	1.258	1.199		1.236	5.0
Indeno(1,2,3-cd)pyrene	1.458	1.318	1.528	1.517	1.534		1.471	6.2
Dibenzo(a,h)anthracene	1.181	1.054	1.258	1.225	1.242		1.192	6.9
Benzo(g,h,i)perylene	1.175	1.088	1.190	1.159	1.157		1.154	3.4
Acetophenone		2.248	2.534	2.314	2.193	2.150	2.288	6.6
2,3,4,6-Tetrachlorophenol	0.300	0.269	0.290	0.309	0.325		0.299	7.0
1,4-Dioxane-d8	0.624	0.525	0.579	0.498	0.486		0.542	10.7
Pyridine-d5		1.475	1.640	1.500	1.479	1.466	1.512	4.8
Phenol-d5		1.604	1.775	1.684	1.725	1.820	1.722	4.8

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.997	1.143	0.989	0.967	0.947	1.009	7.7
2-Chlorophenol-d4	1.463	1.271	1.398	1.309	1.358		1.360	5.5
4-Methylphenol-d8		1.247	1.367	1.330	1.333	1.400	1.336	4.3
Nitrobenzene-d5	0.166	0.140	0.153	0.149	0.155		0.153	6.2
2-Nitrophenol-d4	0.101	0.089	0.086	0.098	0.127		0.100	16.1
2,4-Dichlorophenol-d3	0.319	0.286	0.308	0.300	0.311		0.305	4.1
4-Chloroaniline-d4		0.466	0.511	0.496	0.487	0.474	0.487	3.7
4-Methylphenol		1.391	1.543	1.474	1.458	1.497	1.473	3.8
Dimethylphthalate-d6	1.765	1.498	1.598	1.501	1.421		1.557	8.5
Acenaphthylene-d8	2.055	1.746	1.953	1.792	1.712		1.852	7.9
4-Nitrophenol-d4		0.212	0.231	0.269	0.280	0.302	0.259	14.2
Fluorene-d10	1.513	1.271	1.398	1.301	1.253		1.347	8.0
4,6-Dinitro-2-methylphenol-		0.042	0.046	0.058	0.079	0.101	0.065	38.1
Anthracene-d10	1.210	1.046	1.100	1.047	0.995		1.080	7.6
Pyrene-d10	1.236	1.045	1.174	1.051	1.034		1.108	8.3
Benzo(a)pyrene-d12	1.075	0.984	1.133	1.127	1.115		1.087	5.7
N-Nitroso-di-n-propylamine	1.193	1.040	1.196	1.101	1.030		1.112	7.2

All other compounds must meet a minimum RRF of 0.010.