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.: P4562 SAS No.: P4562 SDG No.: P4562

Instrument ID: BNA_M Calibration Date(s): 10/26/2024 10/26/2024

Calibration Time(s): 10:35 13:52

LAB FILE ID: RRFAL1 = BM048241.D RRFAL2 = BM048242.D RRFAL3 = BM048243.D
RRFAL4 = BM048244.D RRFAL5 = BM048245.D RRFAL6 = BM048246.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.520	0.597	0.545	0.513	0.510		0.537	6.8
Benzaldehyde		1.008	0.951	0.977	0.769	0.546	0.850	22.8
Hexachloroethane	0.551	0.644	0.625	0.609	0.594		0.605	5.8
Nitrobenzene	0.331	0.405	0.393	0.388	0.388		0.381	7.5
Isophorone	0.653	0.775	0.770	0.765	0.729		0.738	6.9
2-Nitrophenol	0.158	0.197	0.203	0.206	0.209		0.195	10.9
2,4-Dimethylphenol	0.312	0.379	0.374	0.355	0.367		0.357	7.6
Bis(2-Chloroethoxy)methane	0.409	0.490	0.471	0.466	0.455		0.458	6.7
2,4-Dichlorophenol	0.290	0.352	0.343	0.342	0.332		0.332	7.4
Naphthalene	1.054	1.196	1.143	1.105	1.088		1.117	4.9
4-Chloroaniline		0.466	0.452	0.456	0.428	0.378	0.436	8.1
Hexachlorobutadiene	0.212	0.237	0.224	0.217	0.215		0.221	4.6
Phenol		1.787	1.804	1.806	1.783	1.767	1.789	0.9
Caprolactam		0.101	0.107	0.113	0.102	0.107	0.106	4.6
4-Chloro-3-methylphenol	0.283	0.350	0.351	0.354	0.330		0.334	8.9
2-Methylnaphthalene	0.692	0.815	0.778	0.759	0.720		0.753	6.4
Hexachlorocyclopentadiene		0.382	0.375	0.386	0.396	0.357	0.379	3.8
2,4,6-Trichlorophenol	0.339	0.420	0.418	0.430	0.437		0.409	9.8
2,4,5-Trichlorophenol	0.341	0.441	0.452	0.463	0.462		0.432	12.0
1,1-Biphenyl	1.425	1.650	1.563	1.518	1.513		1.534	5.3
2-Chloronaphthalene	1.086	1.267	1.206	1.194	1.189		1.189	5.5
2-Nitroaniline	0.258	0.333	0.338	0.362	0.354		0.329	12.6
Bis(2-Chloroethyl)ether		1.479	1.452	1.434	1.409	1.375	1.430	2.8
Dimethylphthalate	1.392	1.610	1.538	1.518	1.438		1.499	5.7
2,6-Dinitrotoluene	0.231	0.290	0.300	0.321	0.315		0.291	12.3
Acenaphthylene	1.665	1.978	1.909	1.861	1.791		1.841	6.5
3-Nitroaniline		0.280	0.304	0.339	0.312	0.298	0.307	7.0
Acenaphthene	1.250	1.416	1.333	1.297	1.235		1.306	5.6
2,4-Dinitrophenol		0.158	0.186	0.215	0.210	0.222	0.198	13.2
4-Nitrophenol		0.183	0.204	0.218	0.203	0.190	0.200	6.8
Dibenzofuran	1.717	1.960	1.860	1.782	1.666		1.797	6.5
2,4-Dinitrotoluene	0.343	0.441	0.449	0.463	0.435		0.426	11.2
Diethylphthalate	1.397	1.610	1.559	1.544	1.431		1.508	6.0
2-Chlorophenol	1.284	1.499	1.483	1.457	1.451		1.435	6.0

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	1.401	1.591	1.496	1.411	1.255		1.431	8.7
4-Chlorophenyl-phenylether	0.687	0.799	0.754	0.710	0.641		0.718	8.5
4-Nitroaniline		0.273	0.295	0.324	0.262	0.235	0.278	12.1
4,6-Dinitro-2-methylphenol		0.138	0.144	0.148	0.145	0.133	0.142	4.3
N-Nitrosodiphenylamine	0.546	0.655	0.623	0.587	0.574		0.597	7.1
1,2,4,5-Tetrachlorobenzene	0.567	0.672	0.641	0.633	0.654		0.633	6.3
4-Bromophenyl-phenylether	0.199	0.234	0.224	0.218	0.216		0.218	5.9
Hexachlorobenzene	0.246	0.285	0.267	0.254	0.253		0.261	5.9
Atrazine		0.234	0.215	0.215	0.214	0.144	0.204	17.0
Pentachlorophenol		0.162	0.167	0.171	0.171	0.155	0.165	4.2
2-Methylphenol		1.348	1.368	1.376	1.330	1.309	1.346	2.0
Phenanthrene	1.058	1.211	1.142	1.085	1.042		1.107	6.2
Anthracene	1.027	1.225	1.159	1.096	1.035		1.108	7.6
Carbazole		1.070	1.039	1.016	0.942	0.801	0.973	11.0
Di-n-butylphthalate	1.126	1.341	1.328	1.345	1.255		1.279	7.3
Fluoranthene	1.188	1.518	1.500	1.438	1.418		1.412	9.4
Pyrene	1.335	1.640	1.615	1.522	1.459		1.514	8.2
Butylbenzylphthalate	0.481	0.621	0.653	0.685	0.688		0.626	13.6
3,3-Dichlorobenzidine		0.459	0.452	0.480	0.435	0.356	0.436	11.0
2,2-oxybis(1-Chloropropane)		2.370	2.294	2.238	2.084	1.939	2.185	7.9
Benzo(a)anthracene	1.325	1.543	1.462	1.454	1.428		1.442	5.5
Chrysene	1.275	1.444	1.384	1.357	1.322		1.356	4.7
Bis(2-ethylhexyl)phthalate	0.723	0.906	0.938	0.994	0.948		0.902	11.6
Di-n-octyl phthalate		1.362	1.462	1.665	1.520	1.472	1.496	7.4
Benzo(b)fluoranthene	1.117	1.379	1.290	1.330	1.265		1.276	7.8
Benzo(k)fluoranthene	1.157	1.371	1.337	1.309	1.215		1.278	7.0
Benzo(a)pyrene	1.033	1.229	1.194	1.193	1.157		1.161	6.6
Indeno(1,2,3-cd)pyrene	1.280	1.393	1.420	1.361	1.538		1.398	6.7
Dibenzo(a,h)anthracene	1.054	1.144	1.168	1.119	1.232		1.144	5.7
Benzo(g,h,i)perylene	0.990	1.068	1.081	1.027	1.198		1.073	7.3
Acetophenone		2.337	2.325	2.285	2.052	1.865	2.173	9.5
2,3,4,6-Tetrachlorophenol	0.333	0.386	0.386	0.382	0.363		0.370	6.1
1,4-Dioxane-d8	0.508	0.545	0.524	0.480	0.483		0.508	5.4
Pyridine-d5		1.547	1.494	1.453	1.455	1.414	1.472	3.4
Phenol-d5		1.714	1.706	1.722	1.706	1.743	1.718	0.9

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		1.103	1.096	1.071	1.043	1.009	1.064	3.7
2-Chlorophenol-d4	1.187	1.455	1.449	1.442	1.453		1.397	8.4
4-Methylphenol-d8		1.396	1.388	1.416	1.343	1.355	1.380	2.2
Nitrobenzene-d5	0.139	0.168	0.169	0.169	0.176		0.164	8.8
2-Nitrophenol-d4	0.140	0.177	0.184	0.191	0.197		0.178	12.7
2,4-Dichlorophenol-d3	0.272	0.337	0.336	0.340	0.335		0.324	9.0
4-Chloroaniline-d4		0.475	0.462	0.470	0.444	0.400	0.450	6.8
4-Methylphenol		1.523	1.523	1.543	1.448	1.392	1.486	4.3
Dimethylphthalate-d6	1.396	1.596	1.527	1.516	1.437		1.495	5.3
Acenaphthylene-d8	1.494	1.772	1.733	1.731	1.697		1.685	6.6
4-Nitrophenol-d4		0.239	0.278	0.300	0.284	0.266	0.273	8.4
Fluorene-d10	1.188	1.363	1.301	1.269	1.193		1.263	5.9
4,6-Dinitro-2-methylphenol-		0.126	0.131	0.137	0.137	0.129	0.132	3.7
Anthracene-d10	0.881	1.019	0.981	0.941	0.907		0.946	5.8
Pyrene-d10	1.028	1.290	1.288	1.237	1.225		1.214	8.9
Benzo(a)pyrene-d12	0.938	1.118	1.078	1.083	1.057		1.055	6.5
N-Nitroso-di-n-propylamine	0.993	1.210	1.186	1.166	1.016		1.114	9.1

All other compounds must meet a minimum RRF of 0.010.