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.: P5050 SAS No.: P5050 SDG No.: P5050

Instrument ID: BNA_N Calibration Date(s): 12/02/2024 12/02/2024

Calibration Time(s): 13:03 16:56

LAB FILE ID: RRFAL1 = BN035384.D RRFAL2 = BN035385.D RRFAL3 = BN035386.D
RRFAL4 = BN035387.D RRFAL5 = BN035388.D RRFAL6 = BN035389.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.587	0.458	0.481	0.431	0.417		0.475	14.2
Benzaldehyde		0.949	0.985	0.805	0.630	0.473	0.769	28.2
Hexachloroethane	0.590	0.501	0.547	0.528	0.518		0.537	6.3
Nitrobenzene	0.333	0.294	0.348	0.337	0.320		0.326	6.4
Isophorone	0.706	0.592	0.699	0.653	0.620		0.654	7.6
2-Nitrophenol	0.164	0.144	0.185	0.182	0.177		0.170	9.7
2,4-Dimethylphenol	0.380	0.312	0.364	0.332	0.321		0.342	8.5
Bis(2-Chloroethoxy)methane	0.450	0.376	0.415	0.386	0.365		0.398	8.6
2,4-Dichlorophenol	0.363	0.302	0.352	0.332	0.314		0.333	7.6
Naphthalene	1.184	0.969	1.050	0.965	0.914		1.016	10.4
4-Chloroaniline		0.379	0.432	0.401	0.381	0.351	0.389	7.7
Hexachlorobutadiene	0.264	0.227	0.241	0.228	0.213		0.235	8.2
Phenol		1.438	1.576	1.498	1.469	1.396	1.476	4.6
Caprolactam		0.082	0.103	0.102	0.102	0.091	0.096	9.5
4-Chloro-3-methylphenol	0.379	0.315	0.368	0.341	0.329		0.346	7.6
2-Methylnaphthalene	0.881	0.717	0.799	0.725	0.663		0.757	11.2
Hexachlorocyclopentadiene		0.252	0.309	0.309	0.310	0.300	0.296	8.4
2,4,6-Trichlorophenol	0.399	0.350	0.405	0.389	0.369		0.382	6.0
2,4,5-Trichlorophenol	0.443	0.397	0.453	0.429	0.407		0.426	5.5
1,1-Biphenyl	1.631	1.325	1.424	1.309	1.212		1.380	11.5
2-Chloronaphthalene	1.295	1.053	1.165	1.039	0.968		1.104	11.6
2-Nitroaniline	0.185	0.173	0.233	0.243	0.251		0.217	16.2
Bis(2-Chloroethyl)ether		1.168	1.246	1.180	1.131	1.051	1.155	6.2
Dimethylphthalate	1.651	1.357	1.507	1.382	1.287		1.437	10.0
2,6-Dinitrotoluene	0.200	0.191	0.261	0.272	0.273		0.239	16.9
Acenaphthylene	1.960	1.610	1.770	1.572	1.492		1.681	11.1
3-Nitroaniline		0.210	0.271	0.264	0.251	0.243	0.248	9.5
Acenaphthene	1.416	1.178	1.260	1.142	1.053		1.210	11.3
2,4-Dinitrophenol		0.102	0.159	0.184	0.192	0.200	0.167	23.8
4-Nitrophenol		0.192	0.240	0.231	0.227	0.227	0.223	8.2
Dibenzofuran	2.081	1.679	1.801	1.595	1.446		1.720	13.9
2,4-Dinitrotoluene	0.351	0.330	0.422	0.408	0.389		0.380	10.2
Diethylphthalate	1.587	1.304	1.493	1.358	1.279		1.404	9.4
2-Chlorophenol	1.346	1.189	1.286	1.257	1.204		1.256	5.1

All other compounds must meet a minimum RRF of 0.010.

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Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P5050 SAS No.: P5050 SDG No.: P5050

Instrument ID: BNA_N Calibration Date(s): 12/02/2024 12/02/2024

Calibration Time(s): 13:03 16:56

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RRFAL4 = BN035387.D RRFAL5 = BN035388.D RRFAL6 = BN035389.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.741	1.367	1.459	1.259	1.103		1.386	17.2
4-Chlorophenyl-phenylether	0.890	0.713	0.735	0.645	0.557		0.708	17.4
4-Nitroaniline		0.230	0.282	0.253	0.229	0.208	0.241	11.8
4,6-Dinitro-2-methylphenol		0.094	0.123	0.122	0.118	0.115	0.114	10.4
N-Nitrosodiphenylamine	0.607	0.503	0.568	0.508	0.470		0.531	10.4
1,2,4,5-Tetrachlorobenzene	0.664	0.565	0.617	0.574	0.527		0.589	8.9
4-Bromophenyl-phenylether	0.228	0.192	0.217	0.194	0.180		0.202	9.6
Hexachlorobenzene	0.278	0.227	0.258	0.229	0.209		0.240	11.4
Atrazine		0.179	0.217	0.201	0.185	0.167	0.190	10.3
Pentachlorophenol		0.135	0.169	0.162	0.155	0.142	0.152	9.0
2-Methylphenol		1.085	1.211	1.176	1.153	1.103	1.146	4.5
Phenanthrene	1.224	1.006	1.085	0.963	0.871		1.030	12.9
Anthracene	1.239	1.028	1.096	0.959	0.876		1.040	13.3
Carbazole		0.899	0.995	0.896	0.815	0.721	0.865	11.9
Di-n-butylphthalate	1.067	0.920	1.083	1.013	0.951		1.007	7.1
Fluoranthene	1.384	1.159	1.325	1.215	1.117		1.240	9.0
Pyrene	1.554	1.279	1.383	1.261	1.171		1.330	11.0
Butylbenzylphthalate	0.356	0.309	0.393	0.401	0.414		0.375	11.3
3,3-Dichlorobenzidine		0.310	0.403	0.394	0.362	0.314	0.357	12.2
2,2-oxybis(1-Chloropropane)		0.930	0.980	0.943	0.879	0.833	0.913	6.3
Benzo(a)anthracene	1.573	1.287	1.399	1.280	1.175		1.343	11.3
Chrysene	1.520	1.239	1.374	1.215	1.121		1.294	12.0
Bis(2-ethylhexyl)phthalate	0.572	0.510	0.630	0.614	0.629		0.591	8.6
Di-n-octyl phthalate		0.704	0.899	0.926	0.953	1.064	0.909	14.4
Benzo(b)fluoranthene	1.281	1.058	1.255	1.114	1.056		1.153	9.4
Benzo(k)fluoranthene	1.345	1.150	1.249	1.111	1.047		1.180	10.0
Benzo(a)pyrene	1.207	1.026	1.151	1.044	0.981		1.082	8.7
Indeno(1,2,3-cd)pyrene	1.417	1.191	1.347	1.279	1.220		1.291	7.2
Dibenzo(a,h)anthracene	1.144	0.972	1.114	1.024	0.975		1.046	7.6
Benzo(g,h,i)perylene	1.076	0.906	1.012	0.974	0.929		0.980	6.9
Acetophenone		2.062	2.142	2.031	1.864	1.706	1.961	8.9
2,3,4,6-Tetrachlorophenol	0.404	0.349	0.393	0.370	0.339		0.371	7.4
1,4-Dioxane-d8	0.472	0.430	0.430	0.396	0.388		0.423	7.8
Pyridine-d5		1.094	1.192	1.153	1.097	1.041	1.116	5.2
Phenol-d5		1.330	1.498	1.457	1.439	1.400	1.425	4.5

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.795	0.845	0.815	0.789	0.729	0.795	5.4
2-Chlorophenol-d4	1.233	1.128	1.245	1.227	1.204		1.207	3.9
4-Methylphenol-d8		1.177	1.325	1.274	1.234	1.198	1.242	4.8
Nitrobenzene-d5	0.122	0.111	0.137	0.140	0.139		0.130	9.7
2-Nitrophenol-d4	0.136	0.126	0.158	0.164	0.168		0.150	12.3
2,4-Dichlorophenol-d3	0.345	0.297	0.351	0.335	0.316		0.329	6.8
4-Chloroaniline-d4		0.385	0.450	0.420	0.400	0.374	0.406	7.4
4-Methylphenol		1.266	1.379	1.323	1.241	1.156	1.273	6.6
Dimethylphthalate-d6	1.622	1.352	1.515	1.394	1.298		1.436	9.1
Acenaphthylene-d8	1.804	1.495	1.667	1.514	1.428		1.582	9.6
4-Nitrophenol-d4		0.194	0.256	0.250	0.243	0.239	0.236	10.5
Fluorene-d10	1.466	1.209	1.295	1.174	1.057		1.240	12.3
4,6-Dinitro-2-methylphenol-		0.079	0.110	0.112	0.113	0.114	0.105	14.1
Anthracene-d10	1.014	0.857	0.938	0.839	0.763		0.882	10.9
Pyrene-d10	1.192	0.982	1.131	1.022	0.955		1.056	9.6
Benzo(a)pyrene-d12	1.055	0.894	1.024	0.948	0.922		0.968	7.1
N-Nitroso-di-n-propylamine	0.999	0.872	0.975	0.936	0.878		0.932	6.1

All other compounds must meet a minimum RRF of 0.010.