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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241
Instrument ID: BNA_F Calibration Date(s): 02/06/2025 02/06/2025
Calibration Time(s): 11:07 14:14

LAB FILE ID:		RRF2.5 = BF141472.D			RRF005 = BF141473.D		RRF010 = BF141474.D	
		RRF020 = BF141475.D			RRF040 = BF141476.D		RRF050 = BF141477.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.276	3.8
Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.857	13.9
Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.612	3.1
Phenol		1.693	1.681	1.817	1.685	1.659	1.678	4.4
bis(2-Chloroethyl) ether		1.262	1.229	1.296	1.266	1.252	1.261	1.6
2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.378	3.4
2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.079	3.1
2,2-oxybis(1-Chloropropane)		2.222	2.245	2.313	2.165	2.119	2.158	5.5
Acetophenone		0.517	0.502	0.521	0.493	0.483	0.498	3.4
3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.371	5.5
n-Nitroso-di-n-propylamine	0.950	0.978	0.985	1.039	0.969	0.947	0.964	4.0
Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.383	1.6
Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.550	3.6
Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.374	1.3
Isophorone		0.611	0.594	0.633	0.611	0.601	0.611	2.0
2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.186	4.9
2,4-Dimethylphenol		0.208	0.212	0.221	0.223	0.218	0.217	2.5
bis(2-Chloroethoxy) methane		0.384	0.390	0.408	0.394	0.387	0.392	2.0
2,4-Dichlorophenol		0.286	0.287	0.312	0.296	0.290	0.294	2.9
Naphthalene		1.067	1.041	1.096	1.037	1.012	1.041	3.0
4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.363	2.8
Hexachlorobutadiene		0.193	0.191	0.200	0.192	0.188	0.192	2.0
Caprolactam		0.083	0.085	0.094	0.093	0.088	0.089	4.8
4-Chloro-3-methylphenol		0.310	0.324	0.342	0.329	0.324	0.325	2.9
2-Methylnaphthalene		0.688	0.689	0.719	0.669	0.659	0.677	3.4
Hexachlorocyclopentadiene			0.138	0.180	0.204	0.205	0.192	15.4
2,4,6-Trichlorophenol		0.364	0.365	0.389	0.377	0.373	0.374	2.3
2-Fluorobiphenyl		1.373	1.360	1.385	1.269	1.241	1.298	5.6
2,4,5-Trichlorophenol		0.385	0.407	0.430	0.410	0.394	0.405	3.5
1,1-Biphenyl		1.582	1.564	1.632	1.545	1.517	1.551	3.2
2-Chloronaphthalene		1.167	1.161	1.211	1.135	1.114	1.147	3.2
2-Nitroaniline		0.371	0.371	0.394	0.390	0.382	0.385	2.9
Dimethylphthalate		1.382	1.359	1.408	1.345	1.324	1.358	2.1
Acenaphthylene		1.739	1.736	1.791	1.696	1.660	1.705	3.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.289	0.290	0.314	0.301	0.295	0.297	3.1
3-Nitroaniline		0.312	0.313	0.335	0.319	0.320	0.319	2.4
Acenaphthene		1.186	1.164	1.188	1.152	1.108	1.147	3.1
2,4-Dinitrophenol			0.133	0.167	0.177	0.185	0.176	13.8
4-Nitrophenol		0.190	0.216	0.247	0.249	0.249	0.237	10.4
Dibenzofuran		1.768	1.722	1.774	1.673	1.633	1.683	4.4
2,4-Dinitrotoluene		0.383	0.403	0.414	0.398	0.390	0.395	2.8
Diethylphthalate		1.400	1.346	1.398	1.330	1.300	1.336	3.7
4-Chlorophenyl-phenylether		0.661	0.643	0.659	0.622	0.602	0.626	4.7
Fluorene		1.359	1.361	1.377	1.290	1.239	1.301	4.9
4-Nitroaniline		0.315	0.319	0.333	0.335	0.319	0.324	2.3
4,6-Dinitro-2-methylphenol			0.116	0.140	0.142	0.142	0.139	8.5
n-Nitrosodiphenylamine		0.650	0.653	0.674	0.627	0.625	0.640	3.0
2,4,6-Tribromophenol		0.201	0.200	0.210	0.200	0.199	0.201	2.1
4-Bromophenyl-phenylether		0.228	0.220	0.234	0.221	0.220	0.224	2.5
Hexachlorobenzene		0.229	0.234	0.241	0.227	0.224	0.230	2.5
Atrazine		0.200	0.203	0.214	0.185	0.185	0.192	7.1
Pentachlorophenol		0.116	0.131	0.151	0.154	0.158	0.147	11.7
Phenanthrene		1.141	1.132	1.161	1.084	1.071	1.101	3.9
Anthracene		1.168	1.126	1.158	1.082	1.084	1.107	4.0
Carbazole		1.022	1.026	1.076	0.986	0.966	0.996	4.9
Di-n-butylphthalate		1.165	1.156	1.223	1.141	1.132	1.150	3.3
Fluoranthene		1.251	1.239	1.243	1.151	1.129	1.167	6.6
Pyrene		1.528	1.557	1.717	1.745	1.774	1.703	6.7
Terphenyl-d14		1.129	1.104	1.211	1.198	1.209	1.185	4.1
Butylbenzylphthalate		0.525	0.540	0.605	0.609	0.603	0.590	6.8
3,3-Dichlorobenzidine		0.397	0.411	0.407	0.377	0.363	0.381	6.3
Benzo (a) anthracene		1.381	1.332	1.350	1.345	1.309	1.329	2.5
Chrysene		1.187	1.223	1.314	1.201	1.215	1.228	3.3
Bis (2-ethylhexyl) phthalate		0.593	0.610	0.685	0.689	0.680	0.665	6.7
Di-n-octyl phthalate		0.802	0.814	0.910	0.965	1.010	0.949	11.8
Benzo (b) fluoranthene		1.286	1.407	1.398	1.336	1.350	1.343	3.9
Benzo (k) fluoranthene		1.113	1.216	1.247	1.142	1.074	1.147	5.5
Benzo (a) pyrene		1.085	1.074	1.115	1.080	1.069	1.087	1.4
Indeno (1,2,3-cd) pyrene		0.987	1.029	1.186	1.288	1.341	1.236	14.1

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		0.796	0.828	0.970	1.051	1.092	1.001	14.1
Benzo (g,h,i) perylene		0.805	0.864	1.001	1.100	1.144	1.048	15.6
1,2,4,5-Tetrachlorobenzene		0.582	0.588	0.600	0.584	0.560	0.579	2.5
1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.513	1.7
2,3,4,6-Tetrachlorophenol		0.332	0.361	0.359	0.348	0.348	0.349	3.0