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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232
Instrument ID: BNA_F Calibration Date(s): 01/29/2025 01/29/2025
Calibration Time(s): 10:30 17:05

LAB FILE ID:		RRF2.5 = BF141290.D			RRF005 = BF141291.D		RRF010 = BF141292.D	
		RRF020 = BF141293.D			RRF040 = BF141294.D		RRF050 = BF141295.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.428	1.391	1.402	1.201	1.267	1.303	8.0
Benzaldehyde		1.166	1.130	1.104	0.895	0.861	0.960	17.8
Phenol-d6		1.841	1.800	1.743	1.520	1.611	1.657	8.5
Phenol		1.938	1.879	1.884	1.643	1.696	1.757	8.2
bis(2-Chloroethyl) ether		1.478	1.413	1.426	1.232	1.299	1.347	6.9
2-Chlorophenol		1.535	1.510	1.487	1.297	1.353	1.396	8.2
2-Methylphenol		1.237	1.175	1.210	1.042	1.107	1.135	6.6
2,2-oxybis(1-Chloropropane)		2.533	2.484	2.495	2.189	2.296	2.342	7.0
Acetophenone		0.547	0.523	0.517	0.436	0.449	0.475	11.1
3+4-Methylphenols		1.561	1.564	1.502	1.287	1.331	1.393	10.6
n-Nitroso-di-n-propylamine	1.084	1.052	1.060	1.032	0.895	0.936	0.985	8.3
Nitrobenzene-d5		0.405	0.396	0.406	0.354	0.373	0.379	6.1
Hexachloroethane		0.609	0.612	0.610	0.530	0.560	0.571	7.1
Nitrobenzene		0.418	0.411	0.420	0.371	0.385	0.393	6.1
Isophorone		0.698	0.685	0.694	0.611	0.640	0.656	5.6
2-Nitrophenol		0.176	0.187	0.199	0.177	0.189	0.185	4.7
2,4-Dimethylphenol		0.244	0.239	0.249	0.224	0.235	0.236	4.1
bis(2-Chloroethoxy) methane		0.454	0.440	0.445	0.389	0.405	0.418	6.7
2,4-Dichlorophenol		0.307	0.300	0.312	0.271	0.284	0.289	6.4
Naphthalene		1.193	1.145	1.140	0.976	1.020	1.057	9.7
4-Chloroaniline		0.382	0.378	0.391	0.338	0.351	0.358	7.4
Hexachlorobutadiene		0.209	0.207	0.209	0.179	0.190	0.194	7.5
Caprolactam		0.097	0.095	0.102	0.089	0.094	0.094	4.9
4-Chloro-3-methylphenol		0.328	0.328	0.334	0.287	0.301	0.310	6.7
2-Methylnaphthalene		0.755	0.732	0.724	0.624	0.643	0.672	9.7
Hexachlorocyclopentadiene		0.136	0.157	0.174	0.172	0.182	0.168	9.7
2,4,6-Trichlorophenol		0.381	0.380	0.390	0.364	0.375	0.372	3.8
2-Fluorobiphenyl		1.597	1.464	1.398	1.184	1.202	1.299	14.5
2,4,5-Trichlorophenol		0.429	0.425	0.429	0.377	0.391	0.405	5.5
1,1-Biphenyl		1.810	1.692	1.650	1.454	1.492	1.560	10.3
2-Chloronaphthalene		1.396	1.310	1.290	1.122	1.159	1.216	9.6
2-Nitroaniline		0.386	0.389	0.407	0.364	0.382	0.382	3.9
Dimethylphthalate		1.498	1.456	1.445	1.239	1.299	1.351	8.3
Acenaphthylene		1.921	1.854	1.815	1.595	1.620	1.702	9.4

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		0.333	0.331	0.333	0.296	0.304	0.314	5.9
3-Nitroaniline		0.321	0.330	0.341	0.303	0.293	0.307	8.4
Acenaphthene		1.361	1.300	1.291	1.128	1.170	1.216	8.5
2,4-Dinitrophenol			0.102	0.136	0.147	0.156	0.146	16.8
4-Nitrophenol		0.187	0.215	0.251	0.224	0.231	0.225	9.2
Dibenzofuran		1.869	1.788	1.755	1.518	1.525	1.627	10.7
2,4-Dinitrotoluene		0.424	0.431	0.443	0.386	0.392	0.406	7.0
Diethylphthalate		1.470	1.417	1.412	1.225	1.238	1.310	9.3
4-Chlorophenyl-phenylether		0.738	0.694	0.659	0.567	0.565	0.617	13.0
Fluorene		1.512	1.410	1.353	1.167	1.164	1.262	13.0
4-Nitroaniline		0.297	0.312	0.330	0.290	0.294	0.302	5.4
4,6-Dinitro-2-methylphenol		0.080	0.105	0.122	0.125	0.131	0.118	16.3
n-Nitrosodiphenylamine		0.716	0.684	0.674	0.626	0.622	0.647	6.9
2,4,6-Tribromophenol		0.198	0.198	0.198	0.173	0.175	0.183	8.0
4-Bromophenyl-phenylether		0.235	0.234	0.234	0.217	0.218	0.224	4.6
Hexachlorobenzene		0.257	0.250	0.248	0.229	0.229	0.238	6.1
Atrazine		0.211	0.202	0.213	0.213	0.215	0.216	4.9
Pentachlorophenol		0.112	0.136	0.146	0.143	0.146	0.139	9.1
Phenanthrene		1.233	1.170	1.142	1.025	1.008	1.075	10.0
Anthracene		1.179	1.146	1.120	1.009	0.999	1.053	9.0
Carbazole		1.019	1.014	1.021	0.899	0.878	0.934	9.0
Di-n-butylphthalate		1.244	1.239	1.245	1.086	1.051	1.132	9.7
Fluoranthene		1.195	1.202	1.196	1.013	0.963	1.062	12.6
Pyrene		2.178	2.063	2.002	1.754	1.870	1.920	9.1
Terphenyl-d14		1.543	1.411	1.370	1.183	1.238	1.297	11.7
Butylbenzylphthalate		0.686	0.690	0.739	0.626	0.657	0.671	6.5
3,3-Dichlorobenzidine		0.412	0.422	0.427	0.418	0.478	0.439	5.8
Benzo (a) anthracene		1.532	1.410	1.453	1.270	1.375	1.380	7.0
Chrysene		1.332	1.325	1.342	1.136	1.267	1.265	6.0
Bis (2-ethylhexyl) phthalate		0.882	0.903	0.956	0.785	0.831	0.851	7.9
Di-n-octyl phthalate		1.194	1.267	1.438	1.230	1.365	1.321	7.0
Benzo (b) fluoranthene		1.358	1.382	1.328	1.120	1.265	1.258	8.3
Benzo (k) fluoranthene		1.167	1.114	1.274	1.083	1.049	1.114	7.3
Benzo (a) pyrene		1.118	1.059	1.131	1.011	1.061	1.063	4.4
Indeno (1,2,3-cd) pyrene		1.217	1.268	1.337	1.257	1.348	1.291	3.7

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.966	1.001	1.101	1.016	1.087	1.039	4.7
Benzo(g,h,i)perylene		1.011	1.075	1.139	1.043	1.123	1.080	4.2
1,2,4,5-Tetrachlorobenzene		0.615	0.613	0.603	0.534	0.555	0.569	7.3
1,4-Dioxane		0.600	0.603	0.597	0.538	0.574	0.573	5.2
2,3,4,6-Tetrachlorophenol		0.325	0.343	0.341	0.304	0.305	0.319	6.1