



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG No.: O1232

Instrument ID: BNA_G Calibration Date(s): 12/27/2022 12/27/2022

Calibration Time(s): 14:55 19:42

LAB FILE ID:		RRF2.5 = BG056126.D			RRF005 = BG056127.D		RRF010 = BG056128.D	
		RRF020 = BG056129.D			RRF040 = BG056130.D		RRF050 = BG056131.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.169	1.169	1.157	1.128	1.128	1.120	4.9
Benzaldehyde		1.168	1.151	1.108	1.001	0.997	1.023	12.4
Phenol-d6		1.750	1.739	1.781	1.786	1.729	1.720	3.9
Phenol		1.756	1.808	1.805	1.796	1.756	1.745	4.3
bis(2-Chloroethyl)ether		1.212	1.248	1.285	1.195	1.162	1.182	6.5
2-Chlorophenol		1.120	1.124	1.156	1.137	1.119	1.115	3.1
2-Methylphenol		1.283	1.274	1.327	1.330	1.275	1.280	3.0
2,2-oxybis(1-Chloropropane)		0.241	0.227	0.216	0.210	0.201	0.209	10.3
Acetophenone		0.571	0.584	0.572	0.567	0.564	0.566	2.3
3+4-Methylphenols		1.764	1.762	1.838	1.872	1.825	1.800	2.5
n-Nitroso-di-n-propylamine	1.042	1.116	1.102	1.088	1.060	1.051	1.046	5.9
Nitrobenzene-d5		0.405	0.387	0.401	0.389	0.386	0.391	2.4
Hexachloroethane		0.446	0.427	0.430	0.418	0.420	0.414	6.4
Nitrobenzene		0.408	0.387	0.390	0.383	0.387	0.387	2.6
Isophorone		0.868	0.842	0.828	0.819	0.814	0.823	3.3
2-Nitrophenol		0.198	0.193	0.195	0.198	0.200	0.198	1.7
2,4-Dimethylphenol		0.352	0.381	0.372	0.359	0.356	0.362	3.0
bis(2-Chloroethoxy)methane		0.451	0.427	0.450	0.420	0.424	0.428	3.9
2,4-Dichlorophenol		0.381	0.385	0.397	0.411	0.413	0.400	3.4
Naphthalene		1.075	1.041	1.064	1.036	1.055	1.053	1.4
4-Chloroaniline		0.519	0.490	0.501	0.502	0.501	0.503	1.7
Hexachlorobutadiene		0.340	0.326	0.327	0.330	0.322	0.326	2.2
Caprolactam		0.140	0.135	0.145	0.134	0.130	0.135	4.1
4-Chloro-3-methylphenol		0.404	0.384	0.417	0.402	0.413	0.406	2.9
2-Methylnaphthalene		0.914	0.894	0.878	0.890	0.888	0.889	1.5
Hexachlorocyclopentadiene		0.384	0.371	0.415	0.456	0.472	0.427	9.0
2,4,6-Trichlorophenol		0.470	0.462	0.494	0.517	0.527	0.496	4.8
2-Fluorobiphenyl		1.505	1.433	1.451	1.469	1.486	1.448	3.2
2,4,5-Trichlorophenol		0.579	0.570	0.578	0.597	0.616	0.586	2.8
1,1-Biphenyl		1.455	1.398	1.448	1.457	1.463	1.432	2.3
2-Chloronaphthalene		1.158	1.106	1.117	1.149	1.159	1.131	2.4
2-Nitroaniline		0.229	0.226	0.244	0.246	0.252	0.241	4.3
Dimethylphthalate		1.665	1.624	1.674	1.624	1.627	1.615	3.5
Acenaphthylene		1.888	1.808	1.841	1.872	1.893	1.840	2.8
2,6-Dinitrotoluene		0.353	0.342	0.342	0.341	0.354	0.344	2.2
3-Nitroaniline		0.336	0.308	0.329	0.334	0.339	0.327	3.5

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
Acenaphthene		1.216	1.126	1.202	1.223	1.243	1.197	3.4
2,4-Dinitrophenol		0.209	0.229	0.249	0.261	0.262	0.246	8.0
4-Nitrophenol		0.251	0.240	0.256	0.261	0.252	0.252	2.7
Dibenzofuran		2.038	1.939	2.015	2.022	2.016	1.980	3.0
2,4-Dinitrotoluene		0.467	0.461	0.488	0.496	0.498	0.481	3.3
Diethylphthalate		1.633	1.519	1.533	1.531	1.523	1.514	4.8
4-Chlorophenyl-phenylether		1.011	0.975	1.007	1.012	1.019	0.994	2.6
Fluorene		1.679	1.588	1.623	1.601	1.606	1.593	3.6
4-Nitroaniline		0.335	0.336	0.347	0.345	0.333	0.335	2.9
4,6-Dinitro-2-methylphenol		0.124	0.120	0.135	0.141	0.141	0.135	6.6
n-Nitrosodiphenylamine		0.559	0.545	0.556	0.560	0.568	0.555	1.5
2,4,6-Tribromophenol		0.249	0.249	0.258	0.257	0.260	0.253	2.1
4-Bromophenyl-phenylether		0.258	0.248	0.254	0.258	0.261	0.255	1.8
Hexachlorobenzene		0.245	0.229	0.235	0.241	0.242	0.238	2.2
Atrazine		0.229	0.235	0.232	0.238	0.230	0.230	2.5
Pentachlorophenol		0.161	0.169	0.181	0.190	0.193	0.183	7.1
Phenanthrene		1.069	1.039	1.044	1.049	1.039	1.036	2.3
Anthracene		1.126	1.064	1.088	1.081	1.067	1.069	3.3
Carbazole		0.955	0.902	0.905	0.913	0.887	0.899	3.6
Di-n-butylphthalate		0.913	0.884	0.913	0.914	0.898	0.896	2.3
Fluoranthene		1.422	1.370	1.385	1.373	1.331	1.352	3.8
Pyrene		1.497	1.431	1.424	1.404	1.419	1.410	3.8
Terphenyl-d14		1.209	1.145	1.140	1.113	1.105	1.117	5.0
Butylbenzylphthalate		0.406	0.388	0.401	0.409	0.418	0.404	2.3
3,3-Dichlorobenzidine		0.517	0.499	0.505	0.526	0.512	0.506	2.8
Benzo (a) anthracene		1.449	1.398	1.401	1.416	1.424	1.405	2.1
Chrysene		1.350	1.311	1.314	1.333	1.334	1.316	2.0
Bis (2-ethylhexyl) phthalate		0.608	0.567	0.565	0.590	0.601	0.583	3.0
Di-n-octyl phthalate		0.994	0.973	0.976	1.000	1.008	0.984	1.7
Benzo (b) fluoranthene		1.310	1.235	1.285	1.297	1.277	1.271	3.0
Benzo (k) fluoranthene		1.300	1.284	1.245	1.283	1.284	1.265	2.4
Benzo (a) pyrene		1.277	1.233	1.230	1.261	1.258	1.239	2.3
Indeno (1,2,3-cd) pyrene		1.482	1.429	1.447	1.484	1.447	1.455	1.9
Dibenzo (a,h) anthracene		1.270	1.222	1.221	1.234	1.198	1.219	2.4
Benzo (g,h,i) perylene		1.215	1.162	1.179	1.213	1.169	1.183	2.1
1,2,4,5-Tetrachlorobenzene		0.761	0.719	0.750	0.765	0.776	0.750	2.9

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.534	0.553	0.535	0.538	0.502	0.512	7.8
2,3,4,6-Tetrachlorophenol		0.535	0.531	0.569	0.559	0.569	0.551	3.3

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