



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: O5252 SAS No.: O5252 SDG No.: O5252

Instrument ID: BNA_F Calibration Date(s): 11/07/2023 11/07/2023

Calibration Time(s): 10:30 14:03

LAB FILE ID:		RRF2.5 = BF136168.D			RRF005 = BF136169.D		RRF010 = BF136170.D	
		RRF020 = BF136171.D			RRF040 = BF136172.D		RRF050 = BF136173.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.273	1.217	1.325	1.244	1.194	1.256	3.4
Benzaldehyde		1.035	0.925	0.979	0.859	0.801	0.894	9.8
Phenol-d6		1.609	1.488	1.638	1.530	1.476	1.546	3.8
Phenol		1.720	1.670	1.823	1.678	1.635	1.688	3.9
bis(2-Chloroethyl) ether		1.308	1.199	1.307	1.227	1.176	1.241	4.1
2-Chlorophenol		1.412	1.319	1.452	1.337	1.287	1.352	4.3
2-Methylphenol		1.181	1.081	1.184	1.115	1.080	1.128	3.8
2,2-oxybis(1-Chloropropane)		1.709	1.580	1.714	1.601	1.548	1.621	4.0
Acetophenone		0.485	0.458	0.482	0.464	0.439	0.462	3.6
3+4-Methylphenols		1.566	1.402	1.521	1.381	1.328	1.408	6.9
n-Nitroso-di-n-propylamine	0.897	0.927	0.879	0.953	0.870	0.851	0.892	3.7
Nitrobenzene-d5		0.352	0.335	0.372	0.367	0.354	0.358	3.5
Hexachloroethane		0.533	0.497	0.557	0.517	0.502	0.522	3.9
Nitrobenzene		0.341	0.330	0.360	0.357	0.346	0.349	3.2
Isophorone		0.603	0.584	0.637	0.633	0.612	0.619	3.3
2-Nitrophenol		0.145	0.151	0.176	0.182	0.174	0.169	8.7
2,4-Dimethylphenol		0.268	0.270	0.297	0.297	0.279	0.284	4.2
bis(2-Chloroethoxy) methane		0.366	0.355	0.392	0.378	0.365	0.373	3.2
2,4-Dichlorophenol		0.264	0.266	0.290	0.288	0.270	0.277	3.8
Naphthalene		1.005	0.961	1.033	1.007	0.949	0.985	3.1
4-Chloroaniline		0.397	0.390	0.429	0.429	0.397	0.409	3.8
Hexachlorobutadiene		0.190	0.176	0.195	0.194	0.185	0.187	3.5
Caprolactam		0.075	0.074	0.083	0.084	0.082	0.080	5.0
4-Chloro-3-methylphenol		0.276	0.274	0.305	0.306	0.288	0.291	4.3
2-Methylnaphthalene		0.677	0.644	0.694	0.677	0.637	0.661	3.3
Hexachlorocyclopentadiene		0.234	0.263	0.311	0.338	0.314	0.309	14.8
2,4,6-Trichlorophenol		0.361	0.357	0.387	0.397	0.357	0.375	4.5
2-Fluorobiphenyl		1.459	1.361	1.438	1.377	1.245	1.353	5.9
2,4,5-Trichlorophenol		0.431	0.396	0.438	0.456	0.417	0.432	4.7
1,1-Biphenyl		1.633	1.544	1.655	1.625	1.462	1.569	4.5
2-Chloronaphthalene		1.146	1.131	1.203	1.190	1.077	1.147	3.7
2-Nitroaniline		0.324	0.322	0.364	0.375	0.338	0.350	6.2
Dimethylphthalate		1.367	1.317	1.436	1.410	1.279	1.351	4.1
Acenaphthylene		1.789	1.721	1.853	1.841	1.678	1.771	3.5
2,6-Dinitrotoluene		0.271	0.278	0.308	0.315	0.285	0.293	5.4
3-Nitroaniline		0.286	0.294	0.329	0.339	0.308	0.313	6.0

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		1.139	1.138	1.229	1.244	1.128	1.179	3.9
2,4-Dinitrophenol			0.070	0.103	0.135	0.127	0.120	23.6
4-Nitrophenol		0.159	0.174	0.220	0.235	0.219	0.208	14.0
Dibenzofuran		1.676	1.619	1.717	1.719	1.538	1.640	4.1
2,4-Dinitrotoluene		0.336	0.355	0.395	0.410	0.361	0.372	6.7
Diethylphthalate		1.528	1.381	1.432	1.395	1.245	1.356	8.0
4-Chlorophenyl-phenylether		0.671	0.633	0.687	0.658	0.576	0.633	6.6
Fluorene		1.288	1.264	1.336	1.299	1.152	1.244	5.6
4-Nitroaniline		0.263	0.257	0.299	0.321	0.282	0.285	7.5
4,6-Dinitro-2-methylphenol			0.075	0.099	0.114	0.111	0.106	16.0
n-Nitrosodiphenylamine		0.614	0.602	0.660	0.655	0.599	0.635	4.6
2,4,6-Tribromophenol		0.204	0.199	0.222	0.226	0.202	0.209	5.0
4-Bromophenyl-phenylether		0.211	0.204	0.229	0.236	0.215	0.223	5.7
Hexachlorobenzene		0.227	0.225	0.240	0.247	0.229	0.236	4.2
Atrazine		0.179	0.165	0.176	0.162	0.149	0.161	8.6
Pentachlorophenol		0.101	0.112	0.135	0.148	0.136	0.132	14.1
Phenanthrene		1.035	1.002	1.081	1.064	0.962	1.024	4.0
Anthracene		1.043	1.007	1.101	1.089	0.995	1.045	3.7
Carbazole		0.826	0.802	0.897	0.886	0.798	0.838	4.7
Di-n-butylphthalate		0.990	0.952	1.052	1.057	0.970	0.991	4.6
Fluoranthene		0.963	0.908	1.003	1.008	0.897	0.935	5.9
Pyrene		1.866	1.841	2.075	1.958	1.789	1.870	5.9
Terphenyl-d14		1.455	1.428	1.600	1.462	1.314	1.409	7.9
Butylbenzylphthalate		0.538	0.523	0.640	0.659	0.607	0.596	8.4
3,3-Dichlorobenzidine		0.361	0.367	0.427	0.464	0.432	0.426	10.8
Benzo (a) anthracene		1.264	1.236	1.387	1.387	1.289	1.327	4.9
Chrysene		1.252	1.201	1.346	1.345	1.250	1.298	5.3
Bis (2-ethylhexyl) phthalate		0.669	0.641	0.737	0.794	0.736	0.719	7.0
Di-n-octyl phthalate			0.916	1.101	1.286	1.214	1.204	14.7
Benzo (b) fluoranthene		1.060	1.021	1.129	1.171	1.071	1.104	5.4
Benzo (k) fluoranthene		1.073	1.046	1.196	1.161	1.068	1.112	4.8
Benzo (a) pyrene		0.963	1.013	1.138	1.143	1.076	1.089	6.9
Indeno (1,2,3-cd) pyrene		1.261	1.372	1.568	1.510	1.434	1.465	7.9
Dibenzo (a,h) anthracene		1.063	1.143	1.304	1.253	1.195	1.214	7.1
Benzo (g,h,i) perylene		1.067	1.170	1.331	1.255	1.208	1.231	7.4
1,2,4,5-Tetrachlorobenzene		0.608	0.587	0.622	0.618	0.554	0.599	3.9

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.471	0.481	0.515	0.507	0.492	0.503	4.4
2,3,4,6-Tetrachlorophenol		0.305	0.307	0.356	0.354	0.320	0.328	6.3

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