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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCAL01
Lab Code: CHEM Case No.: Q2161 SAS No.: Q2161 SDG No.: Q2161
Instrument ID: BNA_P Calibration Date(s): 06/06/2025 06/06/2025
Calibration Time(s): 10:30 15:18

LAB FILE ID:		RRF2.5 = BP024860.D			RRF005 = BP024861.D		RRF010 = BP024862.D	
		RRF020 = BP024863.D			RRF040 = BP024864.D		RRF050 = BP024865.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.198	4.9
Benzaldehyde			1.038	1.071	0.873	0.985	0.914	17.0
Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.585	4.5
Phenol		1.560	1.564	1.616	1.587	1.725	1.634	4.8
bis(2-Chloroethyl) ether		1.222	1.277	1.334	1.234	1.363	1.285	4.3
2-Chlorophenol		1.336	1.290	1.346	1.314	1.453	1.358	4.3
2-Methylphenol		1.053	1.149	1.138	1.106	1.210	1.141	4.9
2,2-oxybis(1-Chloropropane)		1.748	1.732	1.722	1.583	1.751	1.682	4.5
Acetophenone		0.506	0.521	0.511	0.491	0.535	0.505	4.6
3+4-Methylphenols			1.507	1.548	1.493	1.631	1.557	4.3
n-Nitroso-di-n-propylamine	0.984	1.101	1.105	1.107	1.043	1.141	1.078	4.9
Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.412	4.9
Hexachloroethane		0.591	0.565	0.581	0.545	0.611	0.576	3.7
Nitrobenzene		0.366	0.351	0.375	0.360	0.392	0.366	4.8
Isophorone		0.704	0.678	0.724	0.694	0.764	0.713	3.9
2-Nitrophenol		0.154	0.157	0.178	0.180	0.201	0.180	10.6
2,4-Dimethylphenol		0.294	0.286	0.310	0.303	0.331	0.309	5.1
bis(2-Chloroethoxy) methane		0.414	0.408	0.438	0.414	0.465	0.426	4.7
2,4-Dichlorophenol		0.246	0.272	0.300	0.292	0.327	0.296	9.8
Naphthalene		1.071	1.022	1.044	0.989	1.079	1.025	4.9
4-Chloroaniline		0.397	0.401	0.435	0.426	0.471	0.429	6.7
Hexachlorobutadiene		0.203	0.199	0.208	0.194	0.218	0.201	4.8
Caprolactam			0.098	0.109	0.110	0.118	0.109	6.9
4-Chloro-3-methylphenol		0.312	0.322	0.351	0.341	0.374	0.342	6.6
2-Methylnaphthalene		0.659	0.638	0.659	0.633	0.696	0.650	4.5
Hexachlorocyclopentadiene			0.259	0.315	0.337	0.404	0.346	15.7
2,4,6-Trichlorophenol		0.342	0.352	0.386	0.375	0.411	0.381	6.9
2-Fluorobiphenyl		1.542	1.507	1.517	1.390	1.563	1.485	4.4
2,4,5-Trichlorophenol		0.349	0.379	0.414	0.405	0.448	0.408	8.4
1,1-Biphenyl		1.477	1.456	1.485	1.386	1.509	1.453	3.1
2-Chloronaphthalene		1.123	1.104	1.135	1.069	1.171	1.117	3.2
2-Nitroaniline		0.289	0.324	0.344	0.346	0.371	0.343	8.6
Dimethylphthalate		1.515	1.450	1.501	1.400	1.550	1.475	3.4
Acenaphthylene		1.880	1.851	1.892	1.768	1.939	1.863	3.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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		RRF020 = BP024863.D			RRF040 = BP024864.D		RRF050 = BP024865.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.299	0.301	0.326	0.312	0.339	0.318	4.9
3-Nitroaniline		0.263	0.292	0.337	0.338	0.367	0.330	11.7
Acenaphthene		1.106	1.064	1.090	1.020	1.087	1.067	2.9
2,4-Dinitrophenol			0.117	0.155	0.179	0.203	0.178	20.2
4-Nitrophenol			0.142	0.213	0.248	0.276	0.239	22.6
Dibenzofuran		1.815	1.721	1.756	1.627	1.757	1.713	4.2
2,4-Dinitrotoluene		0.390	0.416	0.457	0.437	0.487	0.445	7.4
Diethylphthalate		1.501	1.474	1.487	1.393	1.545	1.470	3.3
4-Chlorophenyl-phenylether		0.711	0.668	0.689	0.637	0.709	0.677	4.1
Fluorene		1.437	1.394	1.420	1.304	1.434	1.384	3.8
4-Nitroaniline		0.239	0.235	0.307	0.311	0.336	0.299	14.7
4,6-Dinitro-2-methylphenol			0.102	0.125	0.130	0.147	0.131	12.8
n-Nitrosodiphenylamine		0.627	0.608	0.633	0.597	0.659	0.620	3.7
2,4,6-Tribromophenol		0.256	0.264	0.279	0.267	0.298	0.277	5.3
4-Bromophenyl-phenylether		0.224	0.215	0.226	0.213	0.246	0.226	4.8
Hexachlorobenzene		0.278	0.268	0.272	0.260	0.290	0.274	3.3
Atrazine		0.213	0.212	0.231	0.217	0.244	0.225	5.2
Pentachlorophenol			0.105	0.131	0.139	0.162	0.142	15.2
Phenanthrene		1.158	1.108	1.110	1.056	1.161	1.105	4.1
Anthracene		1.129	1.093	1.137	1.072	1.188	1.119	3.6
Carbazole		1.023	1.013	1.057	0.998	1.112	1.038	3.8
Di-n-butylphthalate		1.178	1.245	1.326	1.272	1.421	1.285	5.8
Fluoranthene		1.300	1.287	1.307	1.223	1.344	1.281	3.3
Pyrene		1.307	1.195	1.261	1.184	1.322	1.249	4.4
Terphenyl-d14		1.178	1.073	1.146	1.089	1.164	1.116	4.6
Butylbenzylphthalate		0.508	0.529	0.581	0.562	0.641	0.572	7.7
3,3-Dichlorobenzidine			0.468	0.513	0.493	0.542	0.508	5.3
Benzo (a) anthracene		1.312	1.234	1.288	1.219	1.347	1.279	3.7
Chrysene		1.252	1.174	1.229	1.144	1.279	1.212	4.1
Bis (2-ethylhexyl) phthalate		0.715	0.780	0.846	0.797	0.921	0.820	7.9
Di-n-octyl phthalate			1.320	1.438	1.384	1.587	1.445	6.2
Benzo (b) fluoranthene		1.103	1.104	1.133	1.127	1.232	1.145	4.1
Benzo (k) fluoranthene		1.165	1.144	1.181	1.106	1.259	1.165	4.1
Benzo (a) pyrene		1.096	1.069	1.127	1.070	1.214	1.118	4.5
Indeno (1,2,3-cd) pyrene		1.427	1.402	1.469	1.412	1.559	1.459	3.9

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.151	1.143	1.202	1.143	1.279	1.188	4.3
Benzo (g,h,i) perylene		1.172	1.127	1.183	1.136	1.261	1.179	3.9
1,2,4,5-Tetrachlorobenzene		0.568	0.561	0.568	0.538	0.601	0.568	3.3
1,4-Dioxane		0.564	0.529	0.524	0.495	0.546	0.527	4.2
2,3,4,6-Tetrachlorophenol		0.343	0.350	0.360	0.354	0.395	0.365	5.0