Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_P Calibration Date(s): 02/17/2025 02/17/2025

Calibration Time(s): 11:28 16:14

LAB FILE ID: RRF2.5 = BP024069.D RRF005 = BP024070.D RRF010 = BP024071.D
RRF020 = BP024072.D RRF040 = BP024073.D RRF050 = BP024074.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.112	1.196	1.317	1.401	1.274	1.282	7.7
Benzaldehyde		0.888	0.863	0.882	0.771	0.691	0.752	18.8
Phenol-d6		1.434	1.502	1.711	1.761	1.694	1.647	7.6
Phenol		1.525	1.538	1.722	1.733	1.681	1.657	5.3
bis(2-Chloroethyl)ether		1.273	1.228	1.339	1.362	1.309	1.305	3.4
2-Chlorophenol		1.237	1.283	1.378	1.455	1.362	1.357	5.4
2-Methylphenol		0.865	0.868	1.043	1.077	1.073	1.010	9.7
2,2-oxybis(1-Chloropropane)		1.289	1.160	1.339	1.309	1.278	1.267	4.6
Acetophenone		0.497	0.488	0.523	0.537	0.510	0.514	3.3
3+4-Methylphenols		1.199	1.142	1.403	1.451	1.466	1.373	10.3
n-Nitroso-di-n-propylamine	0.699	0.885	0.737	0.963	0.934	0.960	0.886	12.1
Nitrobenzene-d5		0.330	0.338	0.364	0.382	0.360	0.358	5.0
Hexachloroethane		0.519	0.515	0.556	0.568	0.537	0.543	3.7
Nitrobenzene		0.329	0.335	0.361	0.378	0.350	0.353	4.7
Isophorone		0.536	0.470	0.593	0.616	0.619	0.586	10.5
2-Nitrophenol		0.123	0.130	0.155	0.179	0.174	0.163	16.7
2,4-Dimethylphenol		0.188	0.185	0.213	0.227	0.221	0.213	9.0
bis(2-Chloroethoxy)methane		0.423	0.379	0.432	0.440	0.424	0.425	5.0
2,4-Dichlorophenol		0.232	0.251	0.291	0.316	0.308	0.291	12.4
Naphthalene		1.039	1.037	1.099	1.131	1.056	1.075	3.2
4-Chloroaniline		0.337	0.323	0.387	0.398	0.396	0.379	9.0
Hexachlorobutadiene		0.182	0.189	0.194	0.206	0.188	0.193	4.3
Caprolactam			0.052	0.082	0.090	0.099	0.088	22.4
4-Chloro-3-methylphenol		0.248	0.229	0.302	0.318	0.326	0.299	14.5
2-Methylnaphthalene		0.688	0.626	0.728	0.740	0.731	0.715	6.1
Hexachlorocyclopentadiene		0.181	0.227	0.221	0.262	0.230	0.229	10.9
2,4,6-Trichlorophenol		0.288	0.327	0.371	0.423	0.390	0.375	13.4
2-Fluorobiphenyl		1.351	1.466	1.477	1.557	1.374	1.431	5.3
2,4,5-Trichlorophenol		0.322	0.357	0.412	0.453	0.425	0.410	12.6
1,1-Biphenyl		1.465	1.570	1.552	1.630	1.514	1.554	3.4
2-Chloronaphthalene		1.089	1.191	1.185	1.250	1.133	1.175	4.3
2-Nitroaniline		0.211	0.217	0.277	0.305	0.297	0.278	16.4
Dimethylphthalate		1.340	1.231	1.438	1.446	1.435	1.411	6.7
Acenaphthylene		1.526	1.601	1.754	1.875	1.739	1.731	7.2

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.240	0.231	0.293	0.304	0.304	0.287	12.8
3-Nitroaniline		0.236	0.232	0.305	0.329	0.336	0.307	17.0
Acenaphthene		1.040	1.053	1.127	1.162	1.107	1.115	4.6
2,4-Dinitrophenol			0.083	0.131	0.156	0.169	0.153	26.8
4-Nitrophenol			0.168	0.249	0.277	0.287	0.265	19.5
Dibenzofuran		1.749	1.698	1.837	1.900	1.793	1.811	3.8
2,4-Dinitrotoluene		0.278	0.264	0.373	0.403	0.412	0.373	19.8
Diethylphthalate		1.327	1.142	1.439	1.435	1.454	1.400	9.2
4-Chlorophenyl-phenylether		0.644	0.608	0.711	0.727	0.706	0.696	7.3
Fluorene		1.311	1.228	1.453	1.496	1.438	1.414	7.5
4-Nitroaniline		0.226	0.216	0.322	0.353	0.355	0.318	21.8
4,6-Dinitro-2-methylphenol			0.074	0.104	0.122	0.123	0.116	20.2
n-Nitrosodiphenylamine		0.538	0.590	0.639	0.674	0.621	0.624	7.5
2,4,6-Tribromophenol		0.196	0.181	0.240	0.256	0.267	0.245	17.3
4-Bromophenyl-phenylether		0.193	0.203	0.225	0.239	0.229	0.225	8.7
Hexachlorobenzene		0.240	0.251	0.263	0.278	0.265	0.264	5.5
Atrazine		0.161	0.151	0.175	0.179	0.158	0.160	7.9
Pentachlorophenol			0.117	0.159	0.179	0.183	0.172	17.4
Phenanthrene		1.068	1.079	1.146	1.188	1.114	1.128	3.8
Anthracene		0.950	0.973	1.103	1.172	1.092	1.081	7.9
Carbazole		0.897	0.905	1.046	1.110	1.064	1.030	8.8
Di-n-butylphthalate		1.004	0.913	1.231	1.287	1.306	1.201	14.3
Fluoranthene		1.131	1.206	1.290	1.334	1.312	1.275	6.2
Pyrene		1.143	1.226	1.208	1.372	1.315	1.270	6.3
Terphenyl-d14		0.953	1.005	1.047	1.084	1.028	1.011	4.8
Butylbenzylphthalate		0.368	0.363	0.498	0.503	0.533	0.487	18.1
3,3-Dichlorobenzidine		0.294	0.325	0.389	0.434	0.395	0.392	16.6
Benzo(a)anthracene		1.138	1.170	1.288	1.314	1.284	1.254	5.6
Chrysene		1.125	1.147	1.225	1.274	1.211	1.209	4.5
Bis(2-ethylhexyl)phthalate		0.541	0.545	0.759	0.780	0.828	0.738	18.8
Di-n-octyl phthalate			0.773	1.148	1.160	1.271	1.180	18.9
Benzo(b)fluoranthene		1.116	1.108	1.264	1.363	1.308	1.270	9.0
Benzo(k)fluoranthene		1.099	1.087	1.247	1.339	1.269	1.236	8.3
Benzo(a)pyrene		0.889	0.922	1.068	1.177	1.121	1.078	11.6
Indeno(1,2,3-cd)pyrene		1.134	1.322	1.408	1.583	1.450	1.423	10.9

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Dibenzo(a,h)anthracene		0.956	1.106	1.187	1.331	1.221	1.196	10.8
Benzo(g,h,i)perylene		0.976	1.160	1.203	1.357	1.221	1.214	10.2
1,2,4,5-Tetrachlorobenzene		0.548	0.629	0.605	0.675	0.594	0.615	6.4
1,4-Dioxane		0.485	0.508	0.510	0.533	0.473	0.503	4.3
2,3,4,6-Tetrachlorophenol		0.305	0.285	0.353	0.376	0.376	0.356	12.5

All other compounds must meet a minimum RRF of 0.010.