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: ARDM01

Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG No.: Q1833

Instrument ID: BNA_F Calibration Date(s): 04/21/2025 04/21/2025

Calibration Time(s): 11:13 14:30

LAB FILE ID: RRF2.5 = BF142199.D RRF005 = BF142200.D RRF010 = BF142201.D
RRF020 = BF142202.D RRF040 = BF142203.D RRF050 = BF142204.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.356	0.367	0.412	0.382	0.395	0.382	4.9
2-Fluorophenol		1.110	1.107	1.166	1.048	1.044	1.067	6.3
Phenol-d6		1.396	1.432	1.457	1.293	1.293	1.336	7.1
Phenol		1.457	1.483	1.532	1.383	1.372	1.409	6.4
bis(2-Chloroethyl)ether		1.097	1.094	1.128	1.018	1.043	1.063	4.4
2-Chlorophenol		1.254	1.271	1.335	1.207	1.196	1.221	6.1
2,2-oxybis(1-Chloropropane)		1.097	1.082	1.108	0.998	1.011	1.030	6.7
n-Nitroso-di-n-propylamine	0.779	0.841	0.807	0.791	0.713	0.721	0.755	7.5
Nitrobenzene-d5		0.324	0.333	0.344	0.313	0.308	0.318	5.1
Hexachloroethane		0.509	0.502	0.518	0.465	0.467	0.482	5.8
Nitrobenzene		0.318	0.319	0.336	0.316	0.310	0.315	3.6
Isophorone		0.549	0.541	0.562	0.523	0.522	0.535	3.1
2-Nitrophenol		0.134	0.151	0.169	0.172	0.174	0.166	10.5
2,4-Dimethylphenol		0.201	0.206	0.225	0.217	0.220	0.216	4.3
bis(2-Chloroethoxy)methane		0.358	0.364	0.372	0.345	0.344	0.351	4.2
2,4-Dichlorophenol		0.281	0.292	0.309	0.295	0.296	0.293	3.1
1,2,4-Trichlorobenzene		0.362	0.350	0.365	0.336	0.333	0.343	5.0
Naphthalene		1.079	1.063	1.070	0.917	0.882	0.945	13.6
Hexachlorobutadiene		0.232	0.231	0.242	0.224	0.218	0.226	4.1
4-Chloro-3-methylphenol		0.292	0.297	0.307	0.294	0.292	0.295	2.3
Hexachlorocyclopentadiene		0.128	0.161	0.214	0.226	0.216	0.201	20.0
2,4,6-Trichlorophenol		0.337	0.367	0.409	0.389	0.389	0.382	6.2
2-Fluorobiphenyl		1.486	1.417	1.372	1.101	1.014	1.227	18.2
2-Chloronaphthalene		1.225	1.176	1.228	1.082	1.046	1.113	8.8
Dimethylphthalate		1.352	1.322	1.401	1.250	1.218	1.282	6.2
Acenaphthylene		1.790	1.701	1.771	1.530	1.474	1.573	11.7
2,6-Dinitrotoluene		0.274	0.283	0.309	0.291	0.286	0.288	3.9
Acenaphthene		1.230	1.168	1.233	1.099	1.082	1.134	7.0
2,4-Dinitrophenol			0.094	0.131	0.143	0.153	0.141	18.6
4-Nitrophenol			0.156	0.206	0.205	0.216	0.202	11.8
2,4-Dinitrotoluene		0.340	0.367	0.398	0.376	0.375	0.372	5.4
Diethylphthalate		1.257	1.266	1.327	1.187	1.155	1.197	8.0
4-Chlorophenyl-phenylether		0.737	0.710	0.731	0.661	0.639	0.677	7.3
Fluorene		1.381	1.339	1.363	1.187	1.156	1.230	10.7

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
4,6-Dinitro-2-methylphenol			0.088	0.110	0.117	0.123	0.117	13.9
n-Nitrosodiphenylamine		0.651	0.640	0.648	0.594	0.587	0.613	5.3
Azobenzene		1.147	1.110	1.139	1.018	1.002	1.043	9.0
2,4,6-Tribromophenol		0.246	0.265	0.289	0.274	0.280	0.273	5.4
4-Bromophenyl-phenylether		0.261	0.262	0.272	0.259	0.257	0.263	1.9
Hexachlorobenzene		0.323	0.318	0.326	0.304	0.304	0.313	2.9
Pentachlorophenol		0.100	0.136	0.165	0.169	0.178	0.160	19.5
Phenanthrene		1.127	1.120	1.110	0.952	0.916	0.993	12.5
Anthracene		1.114	1.102	1.104	0.967	0.926	0.993	11.5
Di-n-butylphthalate		0.862	0.981	1.038	0.909	0.881	0.898	10.1
Fluoranthene		1.176	1.190	1.180	0.991	0.955	1.032	14.5
Benzidine		0.230	0.196	0.166	0.385	0.301	0.258	28.3
Pyrene		1.783	1.726	1.849	1.592	1.501	1.588	13.5
Terphenyl-d14		1.390	1.331	1.382	1.106	1.015	1.194	16.6
Butylbenzylphthalate		0.258	0.308	0.403	0.402	0.433	0.384	19.0
3,3-Dichlorobenzidine		0.272	0.329	0.372	0.370	0.386	0.361	12.9
Benzo(a)anthracene		1.197	1.211	1.357	1.207	1.199	1.211	5.9
Chrysene		1.259	1.232	1.229	1.133	1.119	1.167	6.1
Bis(2-ethylhexyl)phthalate		0.351	0.405	0.513	0.539	0.565	0.514	19.7
Di-n-octyl phthalate			0.642	0.831	0.934	0.972	0.911	16.9
Benzo(b)fluoranthene		0.993	1.065	1.303	1.134	1.138	1.122	8.5
Benzo(k)fluoranthene		1.273	1.226	1.114	1.055	1.060	1.108	10.5
Benzo(a)pyrene		0.989	0.999	1.069	0.990	1.002	1.004	3.2
Indeno(1,2,3-cd)pyrene		1.378	1.344	1.475	1.405	1.413	1.403	2.9
Dibenzo(a,h)anthracene		1.116	1.084	1.215	1.164	1.158	1.145	3.7
Benzo(g,h,i)perylene		1.176	1.139	1.239	1.203	1.201	1.192	2.7

All other compounds must meet a minimum RRF of 0.010.