

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCIA01
 Lab Code: CHEM Case No.: Q2021 SAS No.: Q2021 SDG No.: Q2021
 Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY022253.D			RRF010 = VY022254.D		RRF020 = VY022255.D			
	RRF050 = VY022256.D			RRF100 = VY022257.D		RRF150 = VY022258.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.5	
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7	
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9	
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3	
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6	
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6	
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5	
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2	
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6	
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2	
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2	
Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.6	
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3	
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2	
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7	
Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.6	
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6	
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2	
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9	
Bromochloromethane	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.6	
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7	
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4	
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3	
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4	
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9	
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5	
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6	
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4	
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4	
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7	
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2	
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4	
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4	
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9	
1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.2	
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4	
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9	
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1	
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2	
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9	
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3	
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5	
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6	
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8	
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4	
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4	
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3	
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.7	
1,2,4-Trichlorobenzene	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.2	
1,2,3-Trichlorobenzene	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.6	
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2	
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2	
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3	
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3	

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