284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ENVI60

Lab Code: ACE SDG No.: Q2646

Instrument ID: MSVOA_N Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:05 18:54

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN087328.D RRF005 = VN087329.D RRF020 = VN087330.D
RRF050 = VN087331.D RRF100 = VN087332.D RRF150 = VN087333.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.447	0.443	0.443	0.623	0.606	0.625	0.531	18
Chloromethane	0.714	0.659	0.588	0.690	0.659	0.698	0.668	6.7
Vinyl Chloride	0.554	0.665	0.623	0.728	0.692	0.720	0.664	9.9
Bromomethane		0.328	0.308	0.355	0.356	0.370	0.344	7.2
Chloroethane	0.396	0.485	0.431	0.441	0.415	0.429	0.433	7
Trichlorofluoromethane	0.959	0.975	0.963	1.025	0.960	1.007	0.981	2.8
1,1,2-Trichlorotrifluoroethane	0.463	0.495	0.539	0.525	0.491	0.509	0.504	5.3
1,1-Dichloroethene	0.635	0.641	0.553	0.545	0.514	0.537	0.571	9.4
Acetone	0.455	0.426	0.393	0.387	0.361	0.366	0.398	9.2
Carbon Disulfide	1.686	1.685	1.669	1.733	1.643	1.739	1.693	2.2
Methyl tert-butyl Ether	1.911	2.099	2.106	2.167	2.129	2.213	2.104	4.9
Methyl Acetate	1.007	1.052	0.991	0.991	0.962	0.993	0.999	3
Methylene Chloride	1.107	0.788	0.700	0.672	0.655	0.672	0.766	22.7
trans-1,2-Dichloroethene	0.667	0.669	0.643	0.653	0.618	0.613	0.644	3.7
1,1-Dichloroethane	1.304	1.325	1.254	1.222	1.185	1.212	1.250	4.4
Cyclohexane		1.148	1.039	1.046	0.981	1.002	1.043	6.2
2-Butanone	0.552	0.608	0.650	0.643	0.617	0.618	0.615	5.7
Carbon Tetrachloride	0.453	0.523	0.498	0.517	0.504	0.518	0.502	5.1
cis-1,2-Dichloroethene	0.704	0.737	0.747	0.767	0.740	0.751	0.741	2.8
Bromochloromethane	0.596	0.640	0.578	0.595	0.597	0.584	0.598	3.6
Chloroform	1.181	1.299	1.303	1.279	1.214	1.234	1.251	4
1,1,1-Trichloroethane	1.043	1.146	1.096	1.084	1.049	1.085	1.084	3.4
Methylcyclohexane	0.447	0.442	0.482	0.529	0.519	0.541	0.493	8.6
Benzene	1.370	1.430	1.502	1.553	1.483	1.499	1.473	4.3
1,2-Dichloroethane	0.553	0.565	0.569	0.567	0.544	0.552	0.558	1.8
Trichloroethene	0.373	0.330	0.337	0.356	0.339	0.352	0.348	4.5
1,2-Dichloropropane	0.335	0.367	0.395	0.395	0.376	0.378	0.374	5.9
Bromodichloromethane	0.568	0.572	0.559	0.569	0.553	0.565	0.564	1.2
4-Methyl-2-Pentanone	0.551	0.641	0.685	0.689	0.658	0.652	0.646	7.8
Toluene	0.774	0.849	0.940	0.963	0.916	0.929	0.895	7.9

* 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	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.459	0.536	0.586	0.621	0.607	0.619	0.571	11.1
cis-1,3-Dichloropropene	0.489	0.564	0.602	0.632	0.620	0.632	0.590	9.4
1,1,2-Trichloroethane	0.367	0.364	0.365	0.367	0.357	0.354	0.362	1.6
2-Hexanone	0.279	0.373	0.465	0.495	0.481	0.479	0.429	19.9
Dibromochloromethane	0.352	0.416	0.425	0.430	0.424	0.433	0.413	7.4
1,2-Dibromoethane	0.367	0.373	0.391	0.385	0.381	0.389	0.381	2.5
Tetrachloroethene	0.329	0.338	0.317	0.320	0.310	0.317	0.322	3.2
Chlorobenzene	1.139	1.131	1.133	1.119	1.092	1.122	1.123	1.5
Ethyl Benzene	1.643	1.738	1.882	1.942	1.905	1.979	1.848	7
m/p-Xylenes	0.541	0.646	0.717	0.758	0.734	0.756	0.692	12.2
o-Xylene	0.491	0.606	0.702	0.723	0.710	0.734	0.661	14.4
Styrene	0.726	1.032	1.186	1.255	1.217	1.257	1.112	18.6
Bromoform	0.246	0.302	0.314	0.328	0.322	0.337	0.308	10.7
Isopropylbenzene	2.524	2.889	3.242	3.396	3.302	3.529	3.147	11.9
1,1,2,2-Tetrachloroethane	1.159	1.181	1.228	1.207	1.156	1.174	1.184	2.4
1,3-Dichlorobenzene	1.448	1.592	1.651	1.658	1.588	1.674	1.602	5.2
1,4-Dichlorobenzene	1.807	1.709	1.742	1.703	1.627	1.677	1.711	3.6
1,2-Dichlorobenzene	1.303	1.534	1.596	1.577	1.510	1.583	1.517	7.2
1,2-Dibromo-3-Chloropropane	0.339	0.325	0.304	0.302	0.290	0.305	0.311	5.8
1,2,4-Trichlorobenzene	0.761	0.860	0.875	0.937	0.921	0.994	0.891	8.9
1,2,3-Trichlorobenzene	0.803	0.844	0.887	0.922	0.917	0.992	0.894	7.4
1,2-Dichloroethane-d4		0.939	0.820	0.802	0.818	0.863	0.848	6.6
Dibromofluoromethane		0.347	0.341	0.332	0.348	0.356	0.345	2.6
Toluene-d8		1.180	1.176	1.224	1.255	1.316	1.230	4.7
4-Bromofluorobenzene		0.405	0.433	0.455	0.476	0.505	0.455	8.5

* Compounds with required minimum RRF and maximum %RSD values.
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