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

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1583 SAS No.: Q1583 SDG No.: Q1583

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Chloromethane	3.021	2.986	3.118	2.875	3.145		3.029	3.6
Vinyl Chloride	2.916	2.831	2.918	2.825	3.124		2.923	4.1
Bromomethane	1.116	0.976	0.995	0.944	1.056		1.017	6.7
Chloroethane	1.821	1.663	1.752	1.466	1.212		1.583	15.6
Trichlorofluoromethane	3.982	3.712	3.968	3.809	4.170		3.928	4.5
1,1-Dichloroethene	2.200	2.142	2.300	2.262	2.491		2.279	5.8
Acrolein	0.504	0.473	0.527	0.540	0.608		0.530	9.5
Acrylonitrile	1.204	1.244	1.348	1.284	1.384		1.293	5.7
Methylene Chloride	2.462	2.482	2.619	2.509	2.745		2.563	4.6
trans-1,2-Dichloroethene	2.232	2.191	2.345	2.260	2.501		2.306	5.3
1,1-Dichloroethane	4.525	4.343	4.508	4.473	4.929		4.555	4.8
Carbon Tetrachloride	0.572	0.548	0.576	0.544	0.581		0.564	3
Chloroform	4.272	4.258	4.406	4.293	4.771		4.400	4.9
1,1,1-Trichloroethane	0.674	0.644	0.686	0.644	0.695		0.669	3.5
Benzene	1.746	1.697	1.785	1.670	1.756		1.731	2.7
1,2-Dichloroethane	0.598	0.581	0.600	0.577	0.607		0.592	2.2
Trichloroethene	0.407	0.400	0.412	0.390	0.415		0.405	2.5
1,2-Dichloropropane	0.430	0.425	0.427	0.427	0.444		0.430	1.8
Bromodichloromethane	0.610	0.593	0.625	0.601	0.639		0.614	3
Toluene	2.015	1.952	1.995	1.956	2.019		1.987	1.6
t-1,3-Dichloropropene	0.527	0.530	0.616	0.618	0.666		0.591	10.3
cis-1,3-Dichloropropene	0.614	0.635	0.691	0.682	0.726		0.670	6.7
1,1,2-Trichloroethane	0.405	0.404	0.414	0.389	0.402		0.403	2.2
2-Chloroethyl vinyl ether	0.301	0.314	0.339	0.326	0.346		0.325	5.6
Dibromochloromethane	0.427	0.436	0.457	0.440	0.468		0.445	3.8
Tetrachloroethene	0.389	0.368	0.367	0.356	0.367		0.369	3.3
Chlorobenzene	1.223	1.214	1.244	1.220	1.257		1.231	1.5
Ethyl Benzene	2.094	2.100	2.220	2.178	2.286		2.176	3.7
m/p-Xylenes	0.785	0.816	0.823	0.799	0.831		0.811	2.3
o-Xylene	0.767	0.798	0.813	0.783	0.816		0.795	2.6

* 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	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromoform	0.251	0.258	0.298	0.281	0.308		0.279	8.9
1,1,2,2-Tetrachloroethane	0.665	0.664	0.703	0.647	0.695		0.675	3.4
1,3-Dichlorobenzene	0.855	0.874	0.905	0.852	0.910		0.879	3.1
1,4-Dichlorobenzene	0.824	0.854	0.910	0.848	0.897		0.867	4.1
1,2-Dichlorobenzene	0.863	0.868	0.894	0.815	0.872		0.863	3.4
1,2-Dichloroethane-d4	2.881	2.881	2.843	2.920	3.044		2.914	2.7
Toluene-d8	1.652	1.669	1.650	1.677	1.651		1.660	0.7
4-Bromofluorobenzene	0.539	0.560	0.565	0.563	0.578		0.561	2.5

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.