

Is Acrolein Growth in Canisters Real?

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Background/Objectives. There has been much discussion and speculation as to whether acrolein forms inside of summa canisters and increases with time. We will investigate multiple factors and theories to determine if this should be a concern for your site.

Approach/Activities. The laboratory will conduct internal studies that manipulate at least three variables such as canister fill rates, humidity levels, and duration between collection and analysis.

Results/Lessons Learned. We expect to learn if acrolein is truly formed within the canister or if the increasing values others have documented are due to acrolein initially adhering to canister walls and then reintegrating back into the sample over time. We will wrap up the talk with recommendations on sampling procedure and analytical holding times that ensure you are receiving acrolein results that reflect the true values at your site.