



SAMPLE REPORT

Home Air Check™ Tobacco Smoke Check™

Home Air Analysis For: Josephine Patricia Barkley
Home Tested: 12 Maple Lane
Washington, DC 20002
US

Report Number: 6011
Laboratory ID: 6011-3

Client Sample ID: Entryway
Sample Volume (L): 36
Date Sampled: 03/02/2022
Sample Type: TDT 150B
Sample Condition: Acceptable

Order Date: 03/06/2022
Scan Date: 03/07/2022
Report Date: 03/17/2022

Location/Notes:

Thank you for using Home Air Check!

If you have questions about your report,
please contact
customerservice@homeaircheck.com

Tobacco Smoke Check™ is the most advanced air testing product™ on the market today for distinguishing residual contamination from tobacco smoke. This test is a valuable tool for homeowners and renters because it provides insight into whether the location can be considered a smoke-free environment.

Total Tobacco Smoke (TTS) Summary

Your TTS Level is: 0.2 ng/L Present

Results from this sample indicate tobacco smoke residue is present. There is no safe level of tobacco smoke.

The Total Tobacco Smoke (TTS) level is the best assessment of the presence of tobacco smoke residue. However, each situation is different, with temperature, humidity, and air flow comprising the most significant factors. Therefore, evaluation of individual tobacco smoke indicators offers further understanding of the particular conditions at the sampling location.

In some cases one or more of the individual indicators may be present even though the TTS is below the reporting limit. This suggests that residue has dissipated to the point where only trace amounts remain.

Evaluation	Tobacco Smoke Indicators	Result
Not Found	Nicotine	This indicator does not suggest the presence of tobacco smoke residue.
Detected	3-Ethenylpyridine	This indicator suggests tobacco smoke residue is present.
Trace	2,5-Dimethylfuran	This indicator suggests a trace amount of tobacco smoke residue may be present.

These results are authorized by the Laboratory Director or approved representative.

The results contained in this report were dependent upon a number of factors, which may include, but are not limited to, the sampling techniques utilized, the size or source of the sample, the compounds which make up the Tobacco Smoke and/or the type of Tobacco Smoke present (mainstream, secondhand, or third hand smoke). Enthalpy can only report on the results of the tests performed on the sample(s) obtained and delivered by the client. Enthalpy in no way warrants, represents or implies that additional samples will achieve a similar test result if tested. Tobacco Smoke Check laboratory results are for informational purposes only and are not a substitute for an industrial hygiene site assessment.

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Additional Information Regarding Tobacco Smoke

Tobacco Smoke in the context of this test is defined as secondhand smoke or environmental tobacco smoke (the mixture of smoke generated by side-stream smoke, i.e., the burning end of tobacco products, and the mainstream smoke exhaled by smokers) as well as third hand smoke or stale tobacco smoke (the smoke residue that has offgassed into the air and is still present after smoking has ceased).

This analysis is not designed for e-tobacco.

Chemical Indicators

Tobacco Smoke contains a complex mixture of over 4,000 chemical compounds, many of which can cause cancer or other serious health conditions. A large number of tobacco smoke chemicals are found in other products or activities. This analysis examines the submitted air sample for the presence of certain chemical compounds that are used as surrogates, i.e., Tobacco Smoke indicator compounds, for the thousands of chemical compounds present in Tobacco Smoke. Multiple tobacco smoke markers are used because different situations may cause one or more of the markers to be undetected. These marker compounds indicate the presence of Tobacco Smoke when they are present above the reporting limit.

Results Discussion

There are a number of factors that can influence how tobacco smoke travels in air and how long it is detectable, including but not limited to:

- amount, duration, and location of smoking
- how long the smoking has been occurring (e.g., weeks, months, years)
- type of material and construction of the wall/floor/ceiling
- building envelope (i.e., how tight is the building)
- air exchange rates
- temperature and humidity
- amount of porous materials (e.g., carpet, draperies, furniture, etc.)
- location of the sample collection equipment
- whether sample collection occurs in the same area as the smoking or in an adjacent space

Sampling for tobacco smoke markers coming from an adjacent area or unit (e.g., multi-unit dwelling such as an apartment, town home, or condo) can sometimes yield a non-detectable Tobacco Smoke value because of the factors listed above.

Health Concerns

There is no safe level of exposure to tobacco smoke. The U.S. Environmental Protection Agency, the U.S. National Toxicology Program, the U.S. Surgeon General, and the International Agency for Research on Cancer have all classified tobacco smoke as a known human carcinogen (a cancer-causing agent).

The resources listed below can provide additional information about tobacco smoke issues.

American Cancer Society: [Health Risks of Smoking Tobacco](#)

American Lung Association: [Health Effects of Secondhand Smoke](#)

US Environmental Protection Agency: [Secondhand Tobacco Smoke & Smoke-Free Homes](#)

World Health Organization: [Tobacco](#)

International Agency for Research on Cancer: [Tobacco Smoke and Involuntary Smoking \(Monograph\)](#)