



Results – Your Air Quality Report

Chemical concentrations and comparison with typical Levels

Your Air Quality Report

Getting Started

Your AirLab™ report provides you with a comprehensive assessment of your indoor air quality. Your report includes information on many different types of chemicals and toxins, and it might seem a little overwhelming at first glance. Don't worry, we'll guide you through the information one step at a time. The report provides your results in three main categories:

- Volatile Organic Compound (VOC) results
- Radon levels
- Mold and Allergen estimation

And for each category you'll find lots of valuable information. Here's how we've organized things:

- Chemical or Hazard Name
- Level of hazard present in your home
- VOC Risk Rating, Radon Action Rating, and Allergen Abundance Rating
- Comparison of your VOC and Radon results to typical indoor air levels
- Additional links to the AirLab library, including sources of hazards and chemicals, health effects, and suggestions on ways to reduce hazard levels

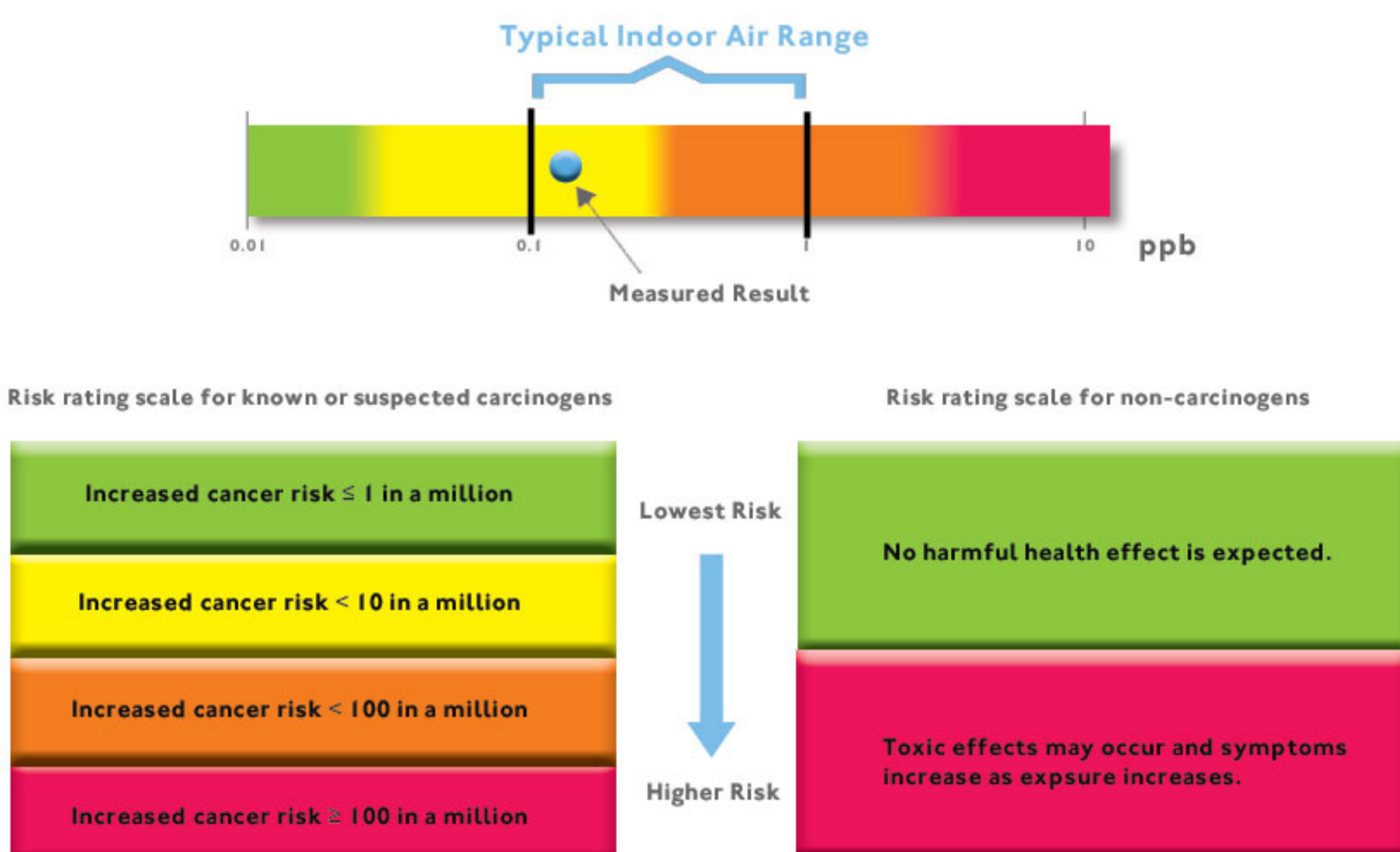
How to read your VOC results

The concentration or level of chemical measured in your home is measured in units of part-per-billion (ppb). A reported concentration of 1 ppb of benzene means that there is 1 molecule of benzene measured in 1 billion air molecules. To help you visualize what this represents in more familiar terms, 1 ppb equals:

- One 4-inch hamburger in a chain of hamburgers circling the earth at the equator 2.5 times
- One sheet in a roll of toilet paper stretching from New York to London
- One second of time in 32 years †

Next to the measured concentration is the Risk Rating Scale. The Risk Rating is determined by comparing the concentration in your home to risk-based screening levels developed by the Oak Ridge National Laboratory (ORNL) in conjunction with the U.S. EPA. † [Click here](#) to read more about Risk and Screening Levels. The Risk Rating Scale is intended to serve as a general guide to assist with data interpretation. Each person's health risk is dependent on several factors including the level and duration of chemical exposure, age, sex, lifestyle, family traits and overall health. AirLab has used the most research available to develop the Risk Rating Scales for each chemical.

An example of a chemical Risk Rating is below, as well as a detailed explanation of the Risk Rating Scale:



The typical indoor air range is provided for each chemical allowing you to compare your home's indoor air quality to other homes. The typical indoor air levels are primarily based on a recent publication which provides a compilation of indoor air concentrations from numerous studies in North American homes. Many of these studies were funded by the EPA or other regulatory agencies. For most chemicals, the range displayed represents the concentrations between the 25% and 95% percentile of homes tested. In other words, approximately 25% of the homes tested had concentrations below the range and 5% of the homes had concentrations above the range.

airlab™ REPORT

Volatile Organic Compound Results

[Typical indoor air Levels]

Chemical	Concentration (ppb)	Risk Rating	What are the health effects of this chemical?†	Where does this chemical come from?
Chloroform	0.16		Possible Human Carcinogen	Learn more
Carbon Tetrachloride	Not detected		Possible Human Carcinogen	Learn more
Ethylbenzene	0.94		Possible Human Carcinogen	Learn more
Methylene Chloride	Not detected		Possible Human Carcinogen	Learn more
Trichloroethylene	0.014		Probable Human Carcinogen	Learn more
Tetrachloroethylene	0.022		Probable Human Carcinogen	Learn more
1,4 - Dichlorobenzene	Not detected		Possible Human Carcinogen	Learn more
Naphthalene	0.019		Possible Human Carcinogen	Learn more
Benzene	1.88		Known Human Carcinogen	Learn more
Formaldehyde	15		Known Human Carcinogen	Learn more
Acetaldehyde	4.9		Possible Human Carcinogen	Learn more
Toluene	5.3		Neurological Effects	Learn more
Total Xylenes	4.21		Neurological Effects	Learn more
1,1,1 - Trichloroethane	Not detected		Liver Effects	Learn more
1,2,4 - Trimethylbenzene	0.9		Neurological Effects	Learn more
Styrene	0.22		Central Nervous System Effects	Learn more

How to read your Radon results

Radon is measured in units of picocurie per Liter (pCi/L). A pCi/L is a unit of radiation in a volume of air. Next to your Radon measurement is the Action Rating Scale. The EPA requires action if your levels are 4 pCi/L or greater. Results between 2 pCi/L and 4 pCi/L can often be reduced by fixing your home while reducing your levels below 2 pCi/L is difficult.

Radon Results

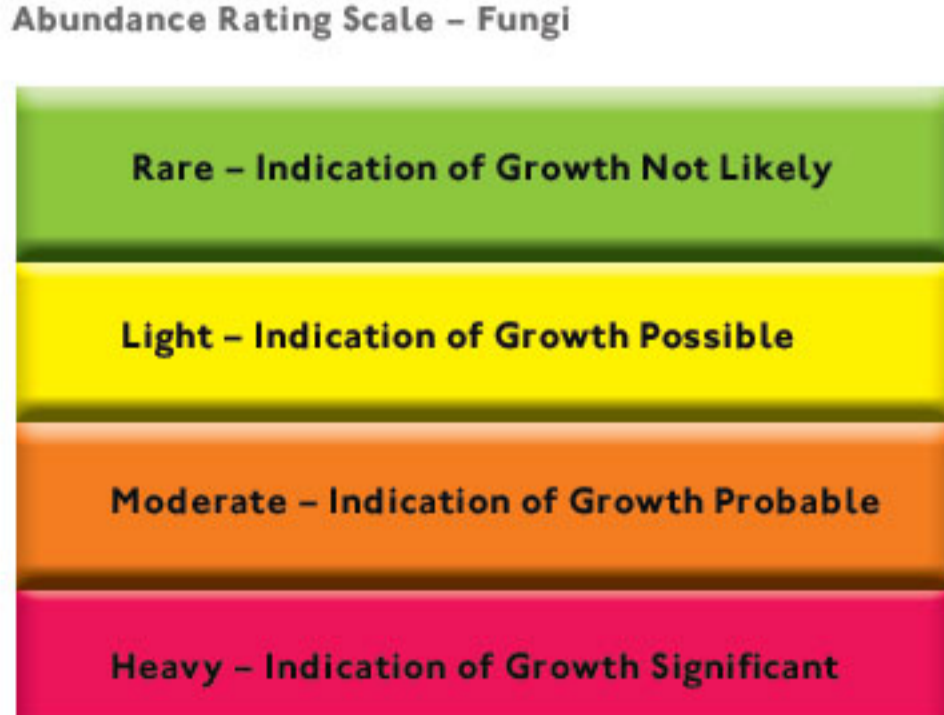
Hazards	Concentration (pCi/L)	Action Rating	What are the health effects of this chemical?†	Where does this chemical come from?
Radon	1.1		Carcinogen	Learn more

How to read your Mold and Allergen results

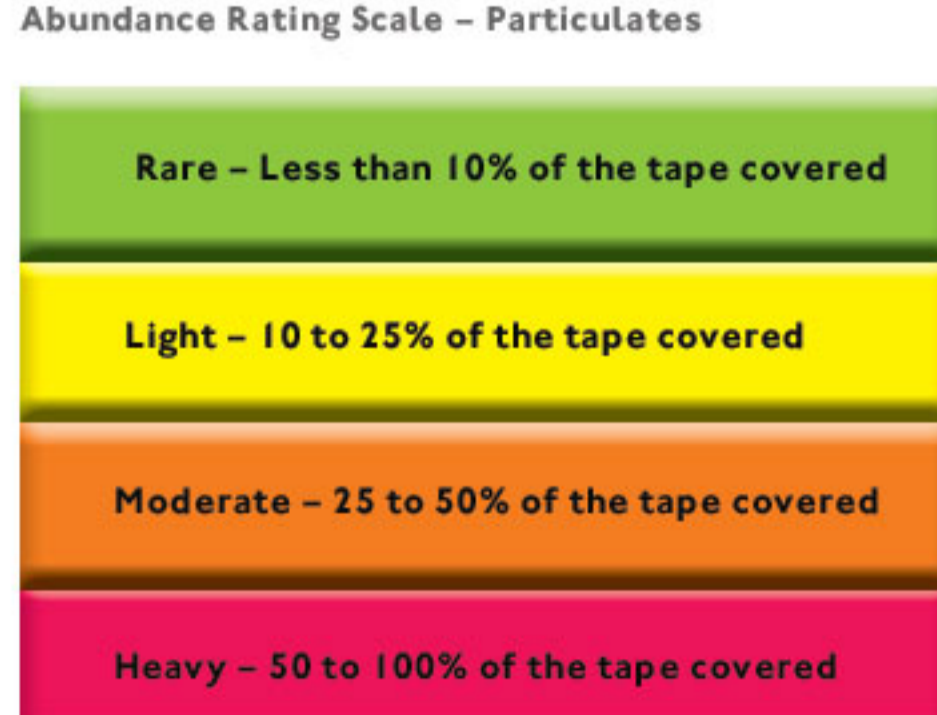
The allergen report lists the type and measurement in units counts per square centimeter of fungi (commonly referred to as mold) and other particulates such as pollen, dander, and fibers measured on the surface tested in your home. As there are no accepted guidelines or risk-based screening levels for molds and allergens, estimated amounts are categorized by their abundance measured on the tape sample. Estimated amounts are categorized as 'Rare', 'Light', 'Moderate' or 'Heavy'. The abundance rating scale for fungi and particulates is listed below. Adverse effects are largely dependent on the individual's sensitivity to the biological contaminant.



Abundance Rating Scale – Fungi



Abundance Rating Scale – Particulates



Allergen Results

FUNGI

Fungi	Measurement (count per square cm)	Abundance Rating	Indication of Fungal Growth	Sources and Health implications
Aspergillus species	36,000		Probable	Learn more
Penicillium species	Not Detected		None	Learn more
Cladosporium species	Not Detected		None	Learn more
Stachybotrys species	85,000		Significant	Learn more

PARTICULATES

Particulates	Measurement (count per square cm)	Abundance Rating	Sources and Health implications
Dander	76		Learn more
Fibers	4		Learn more
Pollen	2		Learn more
Insect	Not Detected		Learn more
Mycelial fragments	Not Detected		Learn more