

## Radon Test Report

**Test Location:**



Residential Single Family

**Test For:**

Type: Real Estate Transaction

**Test Performed By:**

George Nelson  
 420 West Huron  
 Chicago, Illinois 60654  
 inspectrum@gmail.com

**Monitor Placement:**

George Nelson

**Certificate:**

RNI20242812

## Test Result : Fail

Overall Average:

**5.9 pCi/L**

**Test Device Details:**

SunRADON CRM	1028-XP
Serial Number	400000230
Last Calibration	09/26/24
Next Calibration	09/26/25
Cal-Factors	2.06
Motion Error	Yes

**Test Site Condition:**

Condition	Overcast
Year Built	1925
Mitigation Sys	No Mitigation System Installed

**Test Summary:**

CRM Location	Start	Stop	Interval	Duration
Basement	12/26/24 11:23 AM	12/28/24 11:23 AM	1 h	48.0 h

**Test Details : 290752**

	Unit	Min	Max	Average
Radon Concentration	pCi/L	1.9	11.7	5.9
Temperature	F	58	62	61
Humidity	%	45	51	48
Pressure	inHg	29.06	29.55	29.32

**Comments:**

The average temperature in the test location during the test was 61 degrees Fahrenheit. This is below what is required for a valid test (67-77). I informed the responsible party that I turned the thermostat up to 68 degrees and that it should remain between 67 and 77 degrees during the test.

**Test Location:**

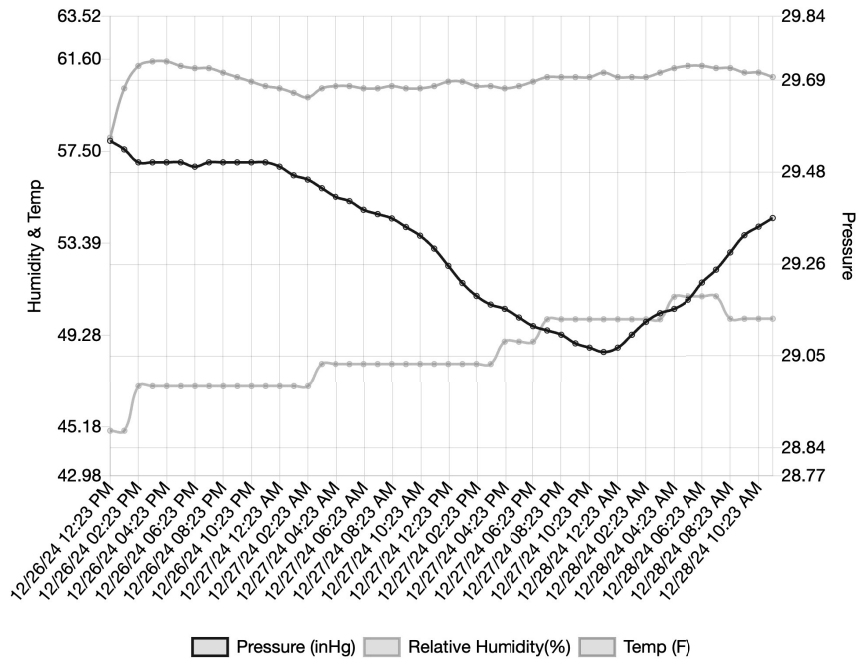
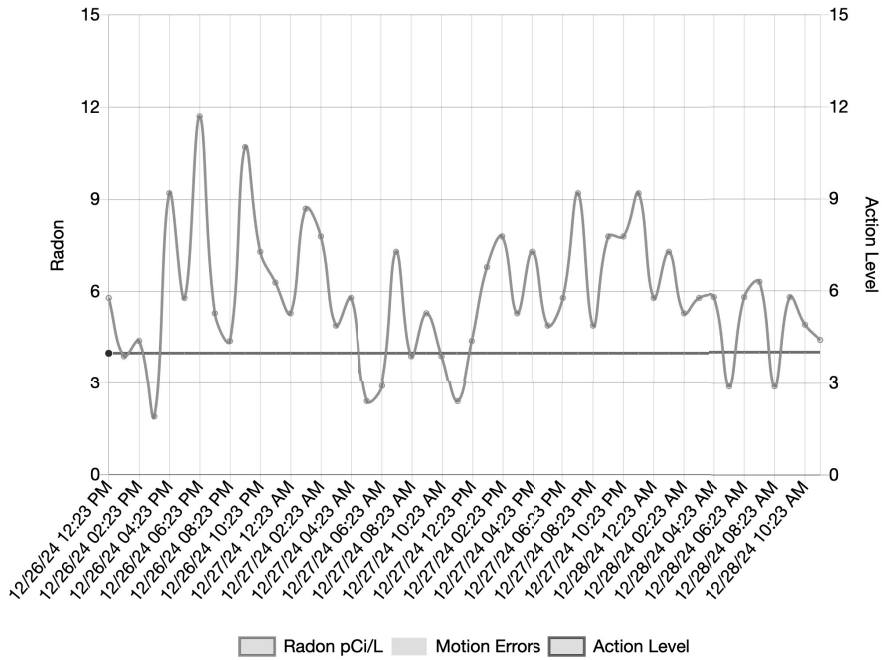


**Inspection Report Date:**

12/28/24

## Radon Inspection Chart

Test ID 290752 - Basement



**Test Result : Fail**

Test Location:



Inspection Report Date:

12/28/24

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## Test Checklist

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- The location of the detector was selected so the detector was not to be disturbed during testing.
- The monitor was not placed in an area of high humidity such as: Kitchen, laundry room, cellar, spa room, garage, crawl space or sump area.
- The detector was not located near drafts caused by HVAC vents, windows and doors.
- Whole house fans were turned off during the testing.
- The detector was not placed near areas of excessive heat, such as a fireplace or in direct sunlight.
- Portable window fans were removed or sealed in place prior to testing.
- The detector was placed within the breathing zone of at least 20 inches to 6 feet above the floor and at least 1 foot below the ceiling if suspended.
- Window air conditioners were operable in recirculation mode only.
- The detector was not placed within 1 foot of outside walls of the home or within 3 feet of any windows or doors to the exterior of the home.
- Ceiling fans, portable dehumidifiers, portable humidifiers, portable air filters, and all window air conditioners are not operated within 20 feet of the detector.

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## Radon Test Information

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### Radon Risk Information

Radon causes lung cancer by means of the decay of its daughter products after breathing in air contaminated with higher levels of Radon. The World Health Organization (WHO) estimates that 5% of lung cancers worldwide are caused by exposure to elevated indoor levels of Radon. Overall, radon is the second leading cause of lung cancer responsible for about 21,000 lung cancer deaths every year in the US alone. Radon gas is the number one cause of lung cancer among non-smokers. The U.S. Environmental Protection Agency (EPA), the U.S. Surgeon General, and the Center for Disease Control and Prevention (CDC) strongly recommend that ALL homebuyers have an indoor radon test performed prior to purchase or taking occupancy and recommend having the radon levels professionally mitigated if elevated radon concentrations are found.

### Understanding Radon Test Results

Recommended Action Levels vary by country and typically range from 3 pCi/L (100 Bq/m<sup>3</sup>) to 8 pCi/L (300 Bq/m<sup>3</sup>). Recommendations below are based on test results by a Continuous Radon Monitor (CRM) Test of at least 24h duration and are based on recommendations by the EPA.

Measured Average Radon Level:

- At or above 4.0 pCi/L (148 Bq/m<sup>3</sup>): Corrective measures to reduce exposure to radon gas is strongly recommended (ANSI MAH 2014).
- Between 2-4 pCi/L (74-148 Bq/m<sup>3</sup>): Consider mitigation or periodic retest as indoor Radon levels vary by season and weather conditions.
- Below 2 pCi/L (74 Bq/m<sup>3</sup>): Consider bi-annual retest or whenever significant changes to the home's structure or mechanical systems occurred.

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