



## Radiofrequency Monitoring Report

**Location:** Washburn High

**Performed By:** Andrew Tinklenberg, EH&S Safety Specialist

**Date Performed:** 6/27/23

### Introduction/Background:

Testing was conducted to review the radiofrequency (RF) levels present in and around select areas of the school building to verify that the levels are below Federal Communications Commission (FCC) limits for the general population/uncontrolled exposure (see the below table for the FCC limits). Wireless communication equipment is present at this site and is mounted to the west central light pole of the athletic field which is located to the east of the building. Testing was performed using a Trifield® Model TF2 meter capable of measuring RF levels in the 20 MHz – 6 GHz range with a range of 0.001 – 19.999 milliwatts per square meter (mW/m<sup>2</sup>).

Frequency Range (MHz)	Power Density/RF Levels (mW/m <sup>2</sup> )
30-300	2,000 *

\* - Limit for maximum permissible exposure for the general/uncontrolled population expressed in mW/m<sup>2</sup>. Information taken from [FCC Resolution 19-126](#).

### Results/Findings:

The results of the testing found that the FCC radiofrequency limit was not exceeded at any point and levels were well below the standards set for the general population. (See Table #1 on the following page for the results of the testing.)

### Remarks:

It should be noted that RF levels are known to fluctuate due to a number of factors (RF generating sources present, distance from a source, objects creating interference, etc.). For this reason, the measurements in this report represent the average range of RF levels that were found to be present in the listed area at the time/date of the testing.

If you have any questions regarding this information, please feel free to contact me. Thank you,

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**Table #1 – Washburn Radiofrequency Testing Results**

Area/Location	RF Levels (mW/m <sup>2</sup> ) *	Notes/Comments
Athletic Field (South End)	<15.0	**
Athletic Field (Central)	<10.0	**
Athletic Field (North End)	<10.0	**
West Bleachers	<20.0	**
East Bleachers	<20.0	**
Exterior East Side of Building	<15.0	
Exterior South Side of Building	<5.0	
Exterior West Side of Building	<1.0	**
Exterior North Side of Building	<5.0	
Ground Floor	<0.1	
Ground Floor – Gym	<0.5	
First Floor (North, West, South)	<0.1	
First Floor – Career Center 107	<10.0	**
First Floor – Office 105N	<10.0	**
First Floor – Main Office	<10.0	**
First Floor – Room 102A	<1.0	
Second Floor – Room 202	<2.0	
Second Floor – Room 204	<5.0	**
Second Floor – Room 207	<5.0	**
Second Floor – Room 209	<5.0	**
Second Floor (North, West, South)	<0.5	



**Table #1 – Washburn Radiofrequency Testing Results (continued)**

Area/Location	RF Levels (mW/m <sup>2</sup> ) *	Notes/Comments
Third Floor (North, West, South)	<0.5	
Third Floor – Room 307	<15.0	**
Third Floor – Room 308	<15.0	**
Third Floor – Room 310	<15.0	**
Third Floor – Room 313	<10.0	**
Third Floor – Room 317	<5.0	**

\* - Average RF levels did not exceed the level shown.

\*\* - Cell tower/transmitter equipment is in relative proximity to this area.