



## Radiofrequency Monitoring Report

**Location:** Roosevelt High

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

**Date Performed:** 6/28/23

### 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 one of the light poles along the northwest side of the athletic field. 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 – Roosevelt Radiofrequency Testing Results**

Area/Location	RF Levels (mW/m <sup>2</sup> ) *	Notes/Comments
Exterior East Side of Building	<0.5	
Exterior North Side of Building	<0.1	
Exterior West Side of Building	<1.0	
Exterior South of Building	<5.0	**
Athletic Field – North Bleachers	<5.0	**
Athletic Field – South Bleachers	<5.0	**
Athletic Field – West End	<5.0	**
Athletic Field – Central	<5.0	**
Athletic Field – East End	<1.0	**
Ground Floor (West, North, East)	<0.01	
Ground Floor – Gym 003	<0.5	**
First Floor – Main Gym	<0.5	
First Floor (West, North, East)	<0.01	
First Floor – Office 100	<1.0	**
First Floor – Office 158	<1.0	**
Second Floor – Room 259	<1.0	**
Second Floor – Room 261	<1.0	**
Second Floor – Room 267	<0.5	**
Second Floor – Room 200	<5.0	**
Second Floor (West, North, East)	<0.1	



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

Area/Location	RF Levels (mW/m <sup>2</sup> ) *	Notes/Comments
Third Floor (West, North, East)	<0.5	
Third Floor – Room 361	<5.0	**
Third Floor – Room 363	<5.0	**
Third Floor – Room 367	<1.0	**
Third Floor – Room 371	<1.0	**
Third Floor – Room 300	<5.0	**
Third Floor – Room 301	<5.0	**

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

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