

Instituto Tecnológico de Pabellón de Arteaga

**>> CAPTURAS DE ACTIVIDAD EN
CLASE CON ANTENAS <<**

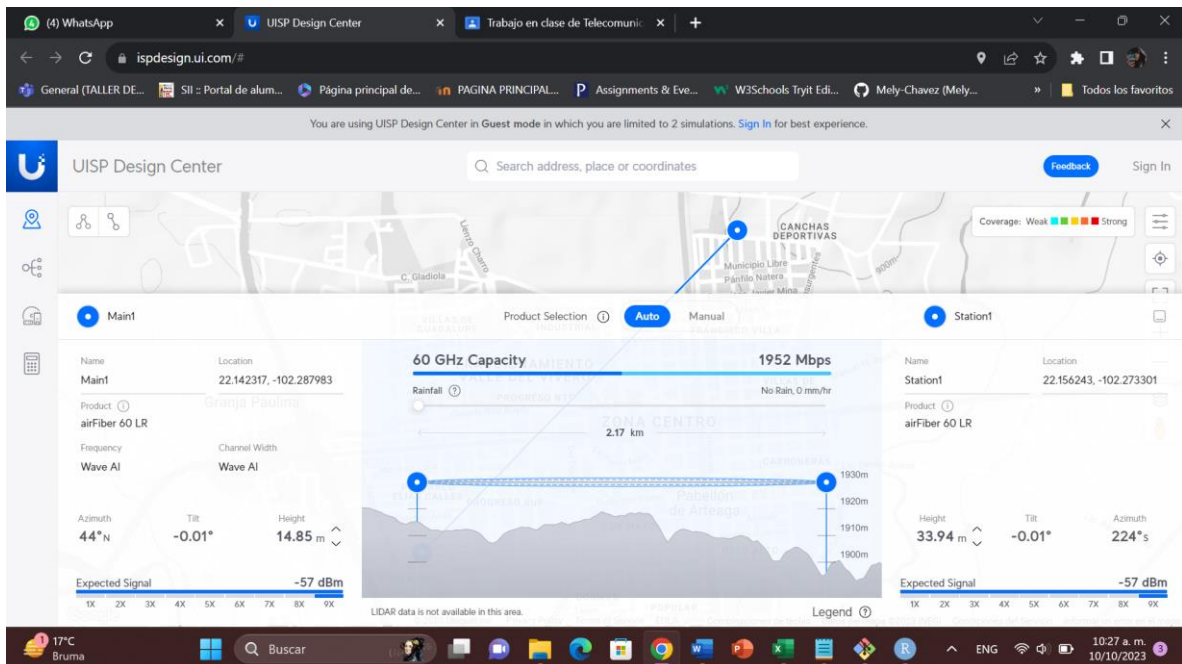
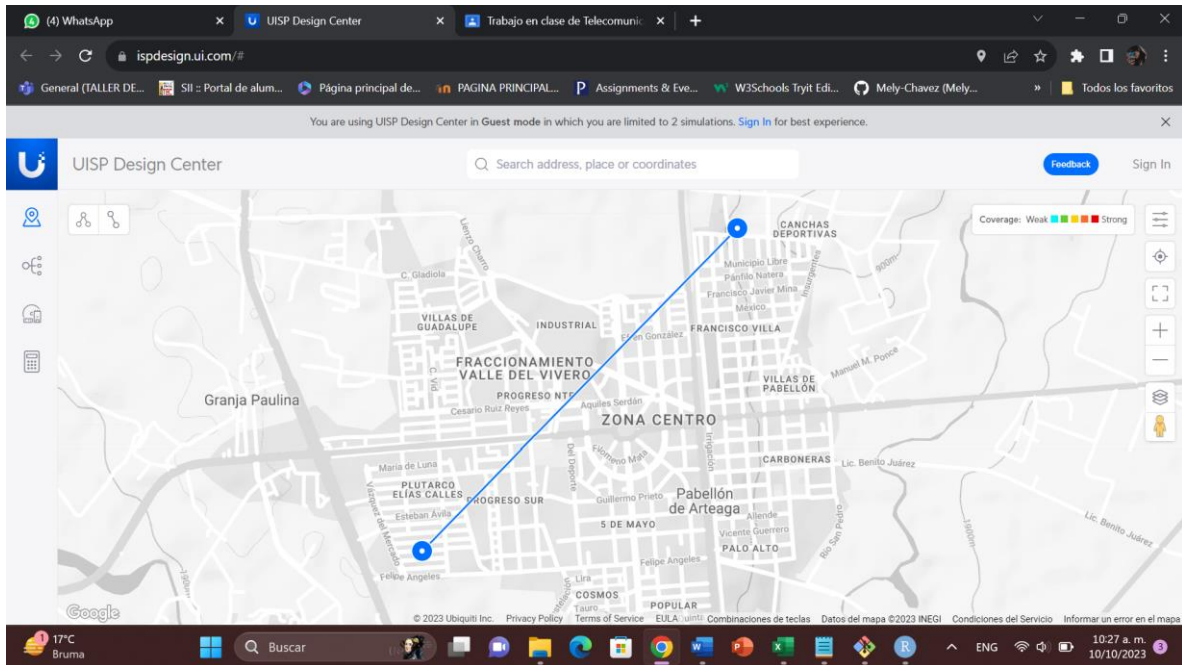
Maestro: Eduardo Flores.

Alumno: Melany Malen Chavez Ortiz

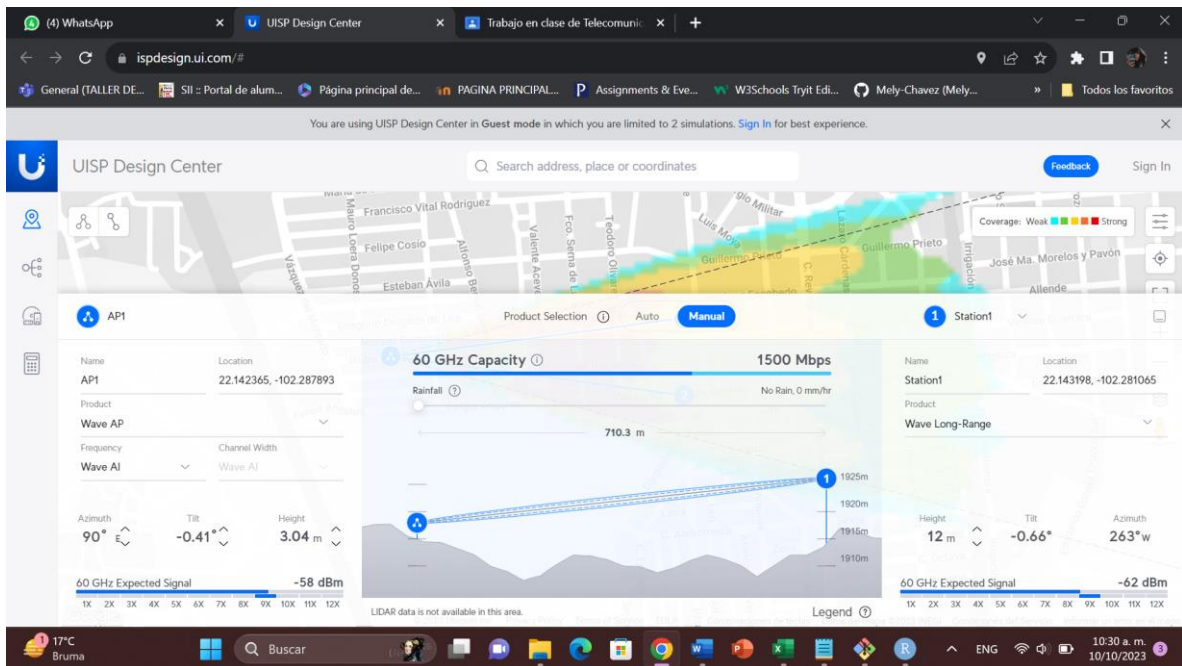
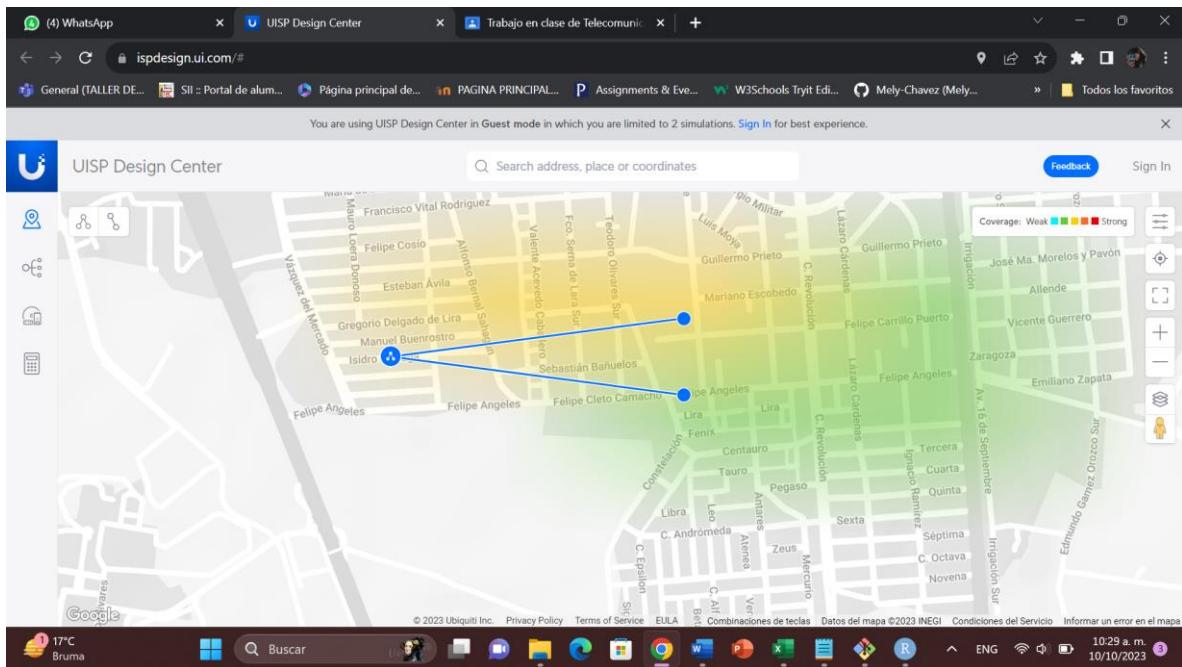
Fecha: 10/10/23

Grupo: ITIC5

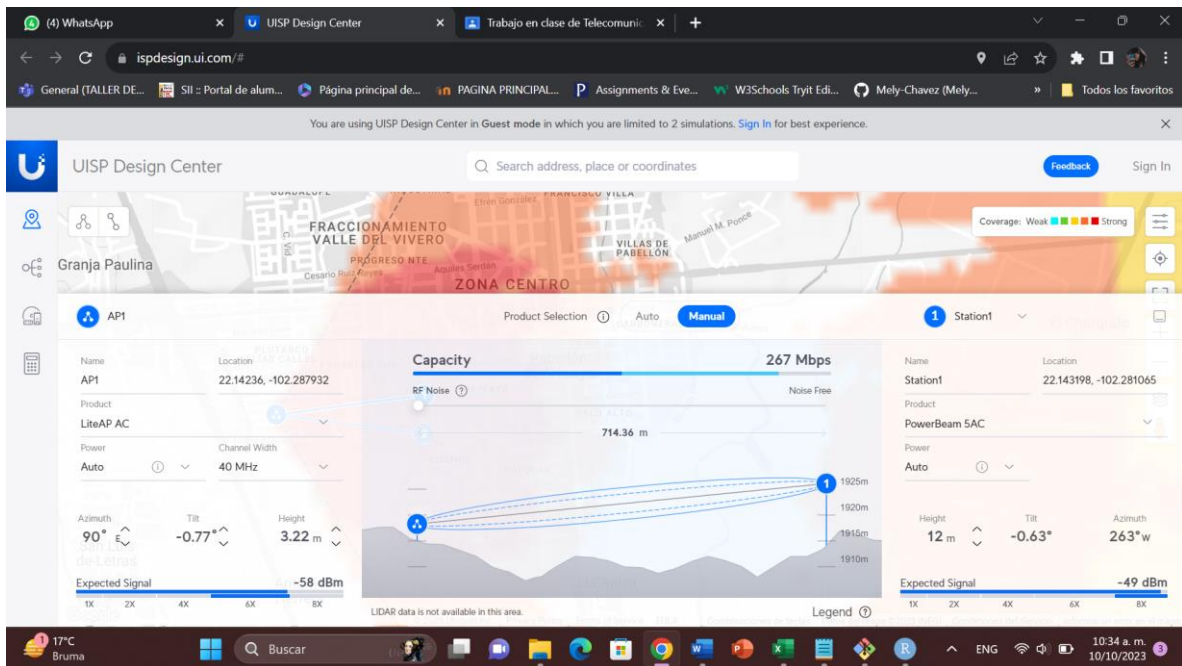
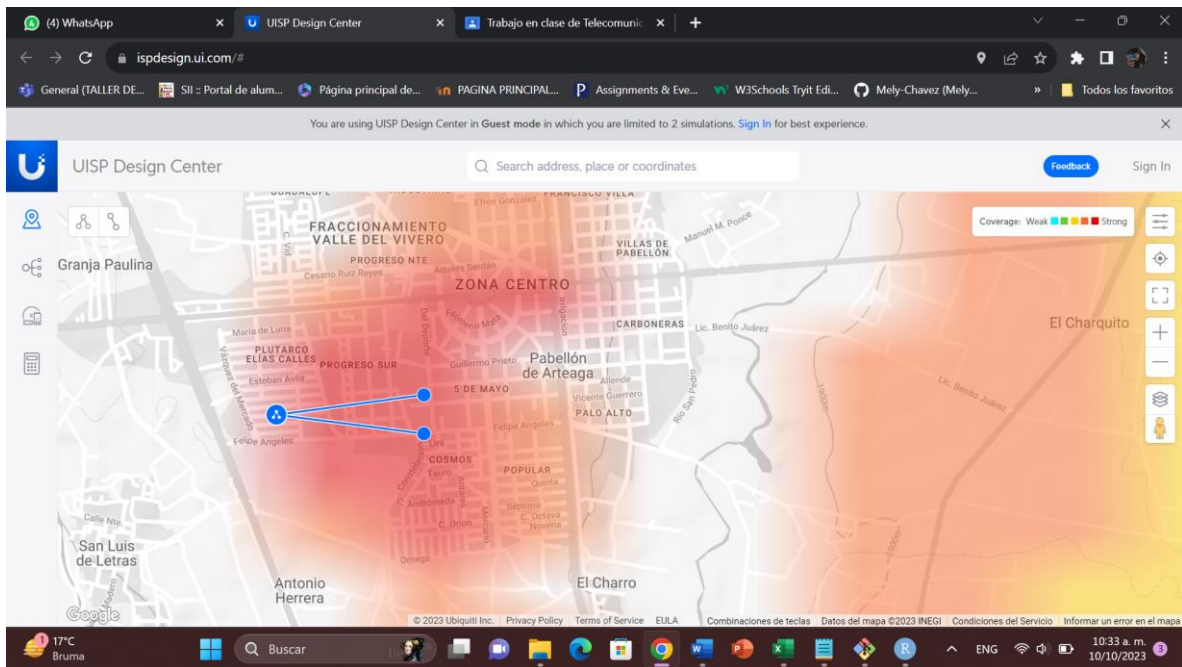
Punto a Punto:



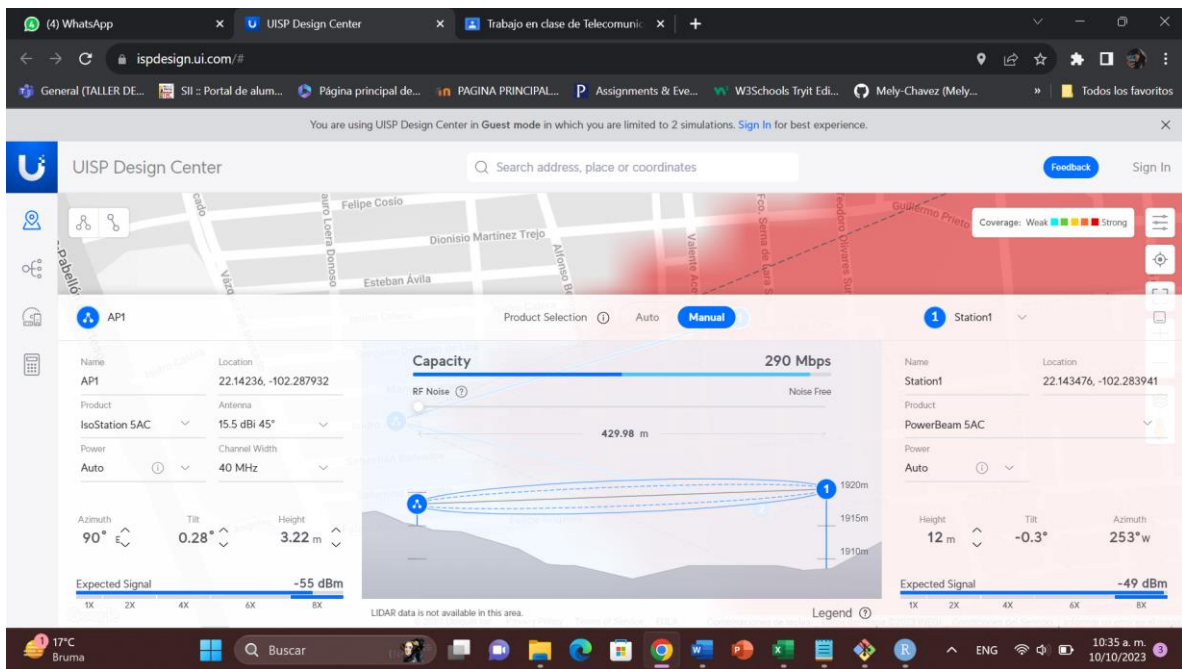
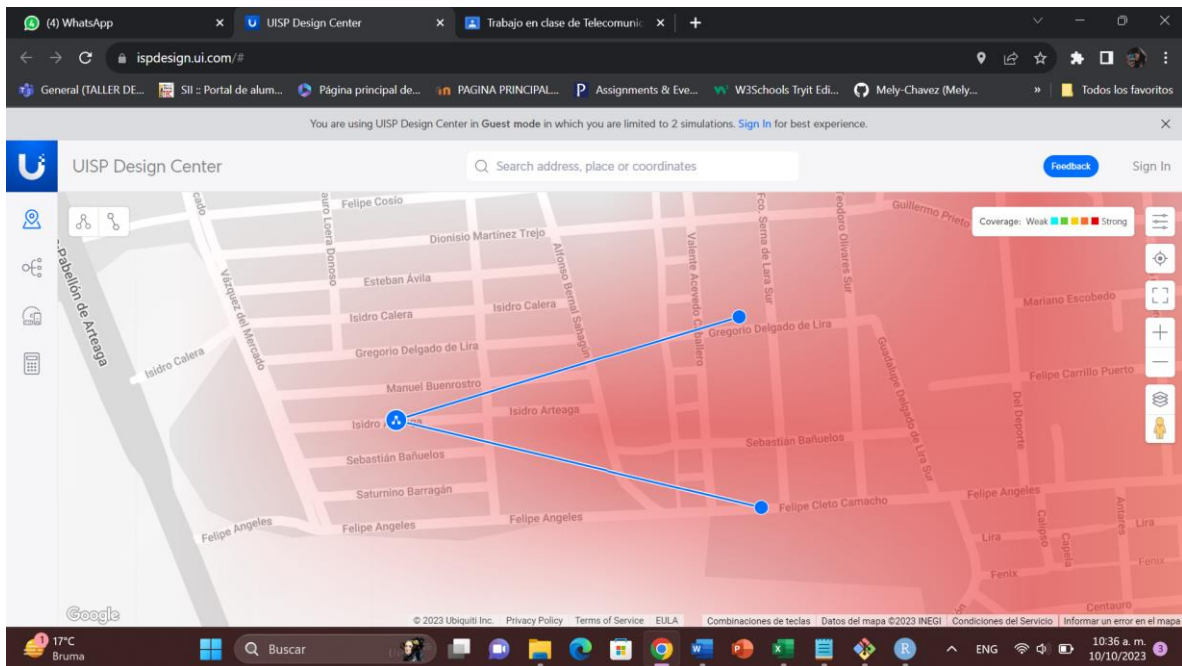
Wave AP:



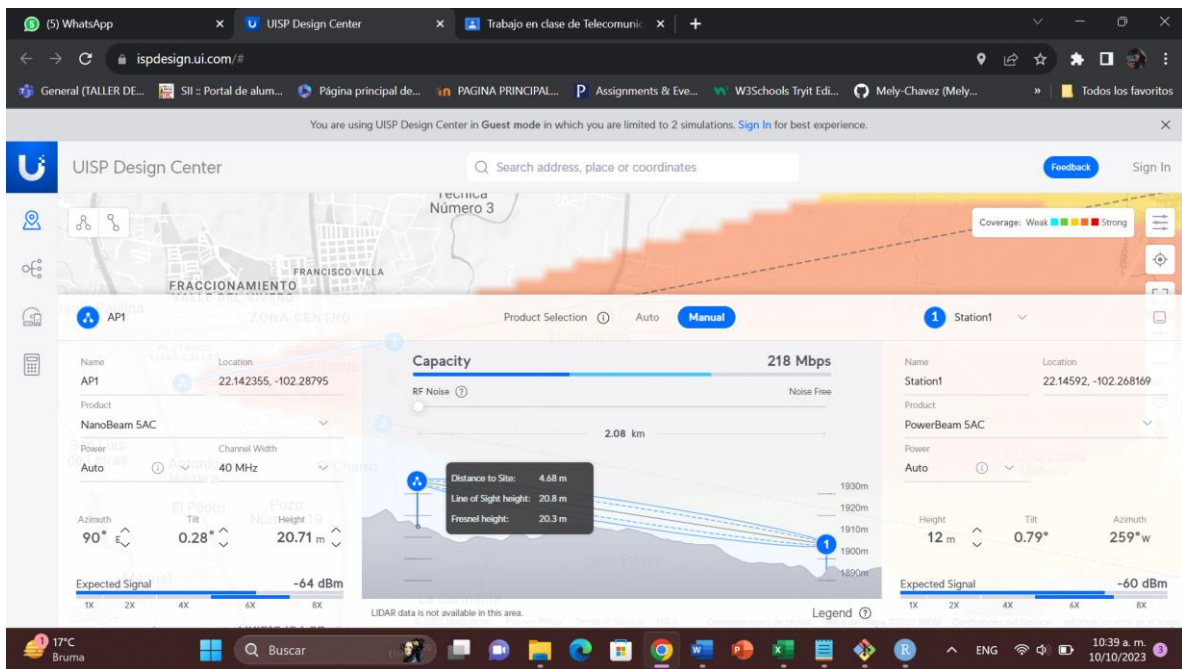
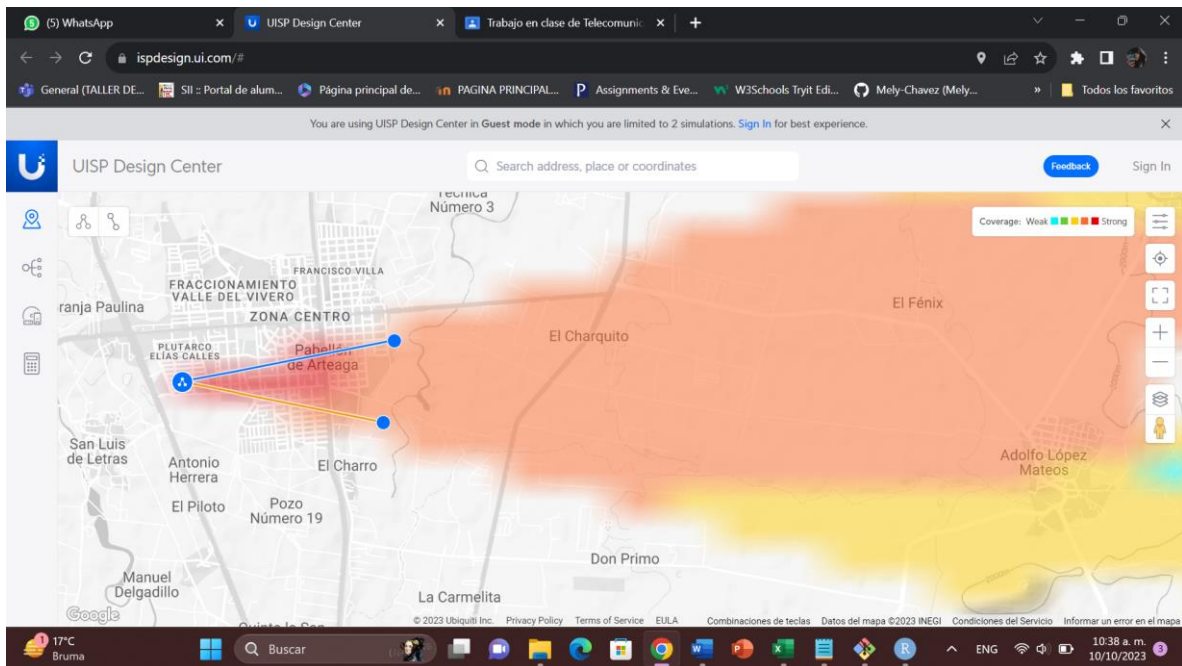
Lite AP AC:



Iso Station 5AC:



NanoBeam 5AC:



The figure displays two screenshots of the UISP Design Center software interface, used for radio link planning.

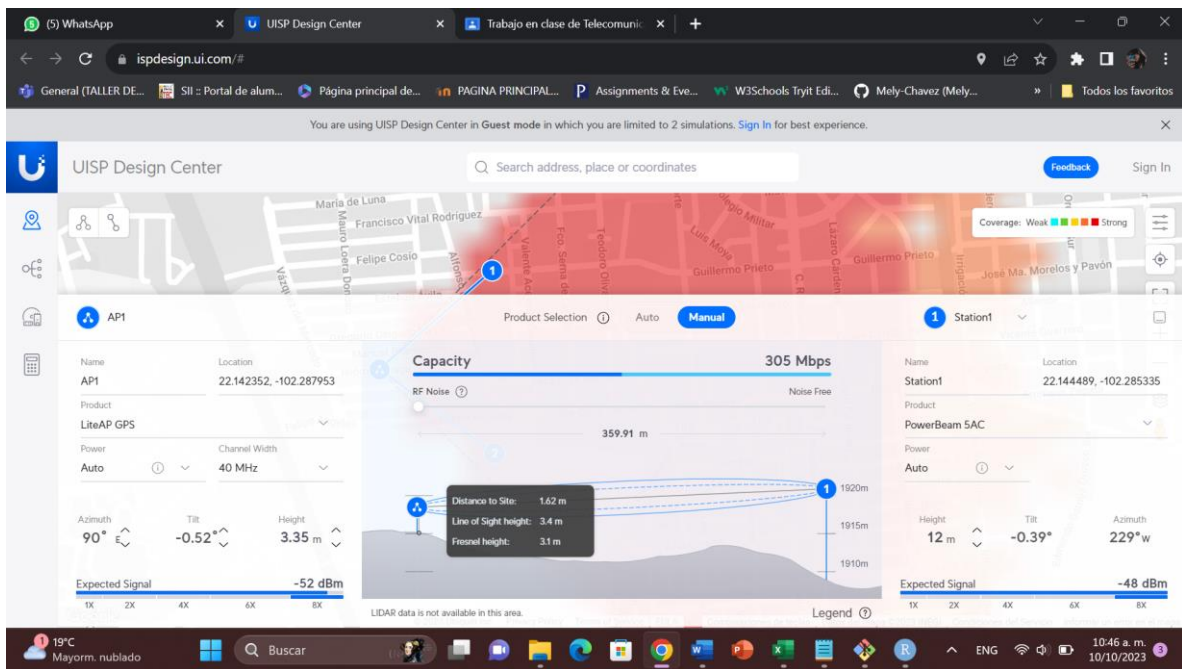
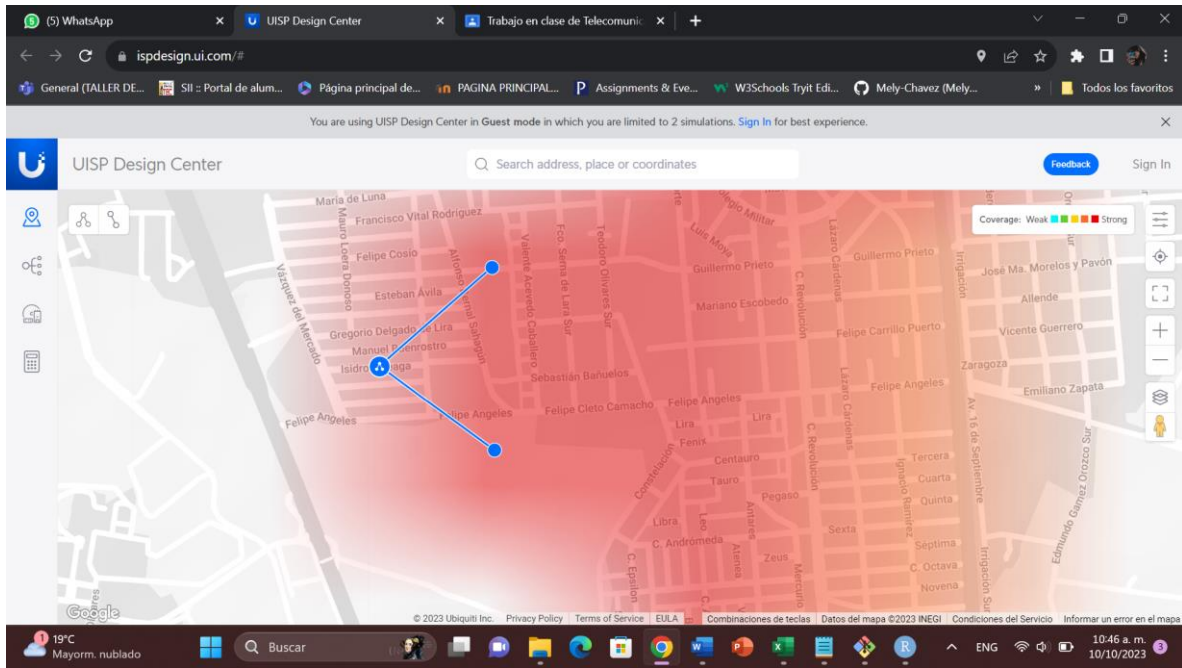
Top Screenshot (Map View):

- Header:** UISP Design Center, Search address, place or coordinates, Feedback, Sign In.
- Map:** A map showing a terrain profile with a color-coded signal strength overlay (Weak to Strong). A blue line connects two points, labeled 1 and 2, representing the radio link path.
- Legend:** Coverage: Weak (blue), Strong (red).
- Bottom Bar:** 19°C, Mayorm. nublado, Buscar, and various application icons.

Bottom Screenshot (Technical View):

- Header:** UISP Design Center, Search address, place or coordinates, Feedback, Sign In.
- Map:** A map showing a terrain profile with a color-coded signal strength overlay (Weak to Strong). A blue line connects two points, labeled 1 and 2, representing the radio link path.
- Left Panel (Station 1):**
 - Name: API
 - Location: 22.142355, -102.28795
 - Product: LTU-Rocket
 - Power: Auto
 - Antenna: 19 dBi 120°
 - Channel Width: 100 MHz
 - Azimuth: 90°
 - Tilt: 1.13°
 - Height: 20.71 m
 - Expected Signal: -74 dBm
- Right Panel (Station 2):**
 - Name: Station1
 - Location: 22.168337, -102.226627
 - Product: LTU-LR
 - Power: Auto
 - Height: 12 m
 - Tilt: -0.22°
 - Azimuth: 245°w
 - Expected Signal: -68 dBm
- Center Panel (Link Details):**
 - Capacity: 376 Mbps
 - RF Noise: Noise Free
 - Distance: 6.95 km
 - Legend: 1X, 2X, 4X, 6X, 8X, 10X
- Bottom Bar:** 19°C, Mayorm. nublado, Buscar, and various application icons.

LiteA GPS:



Lite Beam ACXR:

UISP Design Center

Search address, place or coordinates

Feedback Sign In

Coverage: Weak Strong

6000000000
+2.20%

UISP Design Center

Search address, place or coordinates

Feedback Sign In

API

Name: API Location: 22.142591, -102.284692

Product: LiteBeam AC XR

Power: Auto Channel Width: 40 MHz

Azimuth: 90° Tilt: 0.36° Height: 3.35 m

Expected Signal: Out of range

Capacity

RF Noise Noise Free

652.75 m

Link out of range

Station1

Name: Station1 Location: 22.143655, -102.278469

Product: PowerBeam 5AC

Power: Auto

Height: 12 m Tilt: -1° Azimuth: 260°w

Expected Signal: Out of range

LIDAR data is not available in this area.

Legend

PrismStation 5AC:

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ispdesign.ui.com/#

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You are using UISP Design Center in Guest mode in which you are limited to 2 simulations. [Sign In](#) for best experience.

UISP Design Center

Search address, place or coordinates

Feedback Sign In

Coverage: Weak Strong

Google

© 2023 Ubiquiti Inc. Privacy Policy Terms of Service EULA Combinaciones de teclas Datos del mapa ©2023 INEGI Condiciones del Servicio Informar un error en el mapa

19°C Mayorm. nublado

Buscar

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You are using UISP Design Center in Guest mode in which you are limited to 2 simulations. [Sign In](#) for best experience.

UISP Design Center

Search address, place or coordinates

Feedback Sign In

AP1

Product Selection Auto Manual

Station1

Name AP1 Location 22.142597, -102.284665

Product PrismStation SAC

Power Auto

Channel Width 40 MHz

Antenna 19 dBi 30°

Expected Signal -46 dBm

Capacity 305 Mbps

RF Noise Noise Free

245.21 m

1930m

1920m

1910m

LIDAR data is not available in this area.

Legend

Name Station1 Location 22.143098, -102.282353

Product PowerBeam SAC

Power Auto

Height 12 m

Tilt 2.55°

Expected Signal -45 dBm

15°C Nublado

Buscar

11:21 p. m. 10/10/2023

LTU ROCKET:

The screenshot shows the UISP Design Center interface. A map displays two stations: Station1 (LTU-LR) and Station2 (LTU-LR). A table provides details for each station:

Station	Distance	Link Capacity
Station1 LTU-LR	574.12 m	751 Mbps
Station2 LTU-LR	649.94 m	859 Mbps

Below the table are buttons: Add AP, Add Backbone, Add Station, and Remove Link. A sidebar on the right shows a coverage map and a notification: 'Captura de pantalla copiada en el Portapapeles y guardada. Selecciona esta opción para marcar y compartir la imagen.'

The screenshot shows the detailed configuration for Station1. The interface includes a map, a table of station properties, and a coverage map.

Name	Location
AP1	22.142571, -102.284682
Station1	22.146954, -102.281752

Configuration details for Station1:

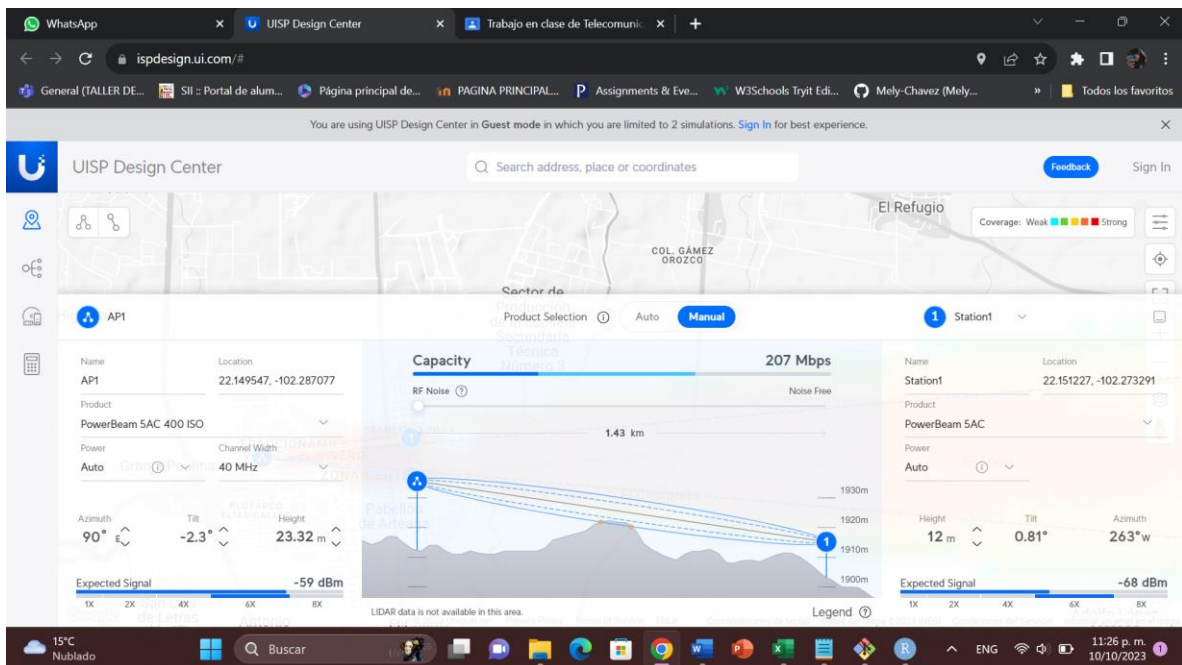
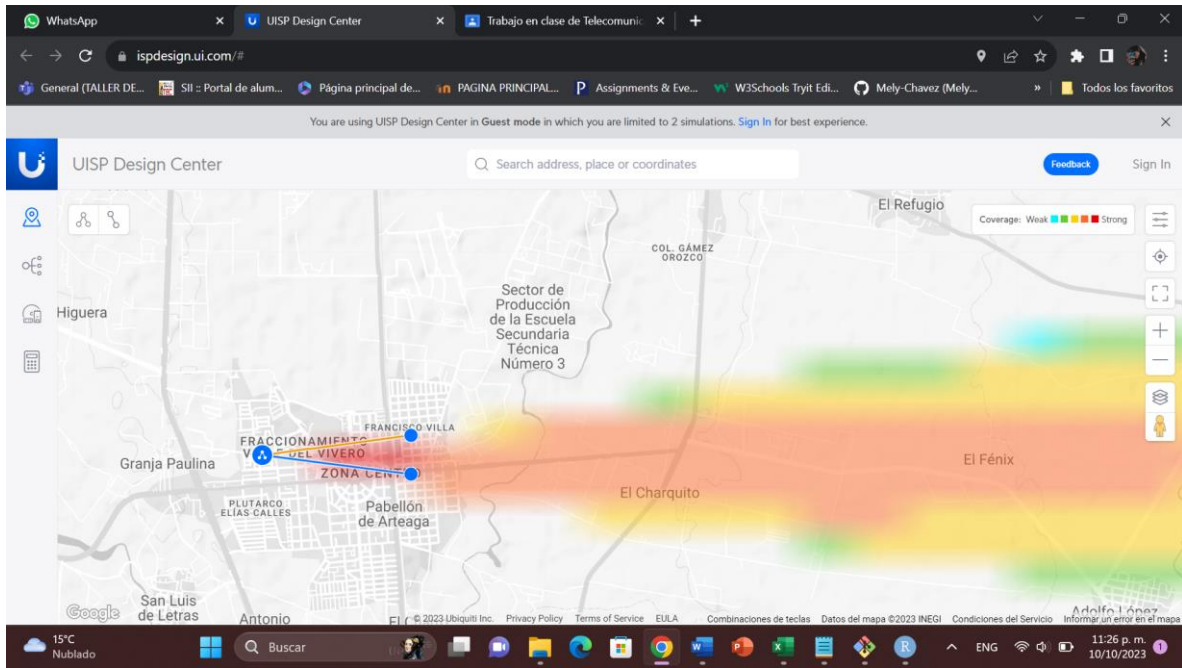
- Product: LTU-Rocket
- Antenna: 19 dBi 120°
- Power: Auto
- Channel Width: 100 MHz
- Expected Signal: -53 dBm
- Height: 3.29 m
- Tilt: -0.31°
- Azimuth: 90°

Configuration details for Station1:

- Product: LTU-LR
- Power: Auto
- Expected Signal: -63 dBm
- Height: 12 m
- Tilt: -1.15°
- Azimuth: 212°

The coverage map shows the signal strength across the area, with a legend indicating signal levels from 1K to 10K.

PowerBeam 5AC 400 iso:



Pregunta:

Con una antena sectorial o omnidireccional modifique los valores "azimuth" y "tilt" ¿Qué pasa si modifica los valores de azimuth y tilt?

Al modificar estos valores, puedes personalizar la cobertura de la antena según tus necesidades específicas. Por ejemplo, en un despliegue de red inalámbrica, podrías ajustar el azimuth y el tilt para dirigir la señal hacia un área densamente poblada, evitar interferencias o mejorar la cobertura en un piso específico de un edificio.

Estos ajustes deben hacerse cuidadosamente y generalmente requieren ciertos conocimientos en diseño de redes para optimizar la eficiencia de la red y minimizar interferencias.