



UDB-IoT

Antenna Datasheet

A handwritten signature in black ink, appearing to read 'H Chen', written over a horizontal line.

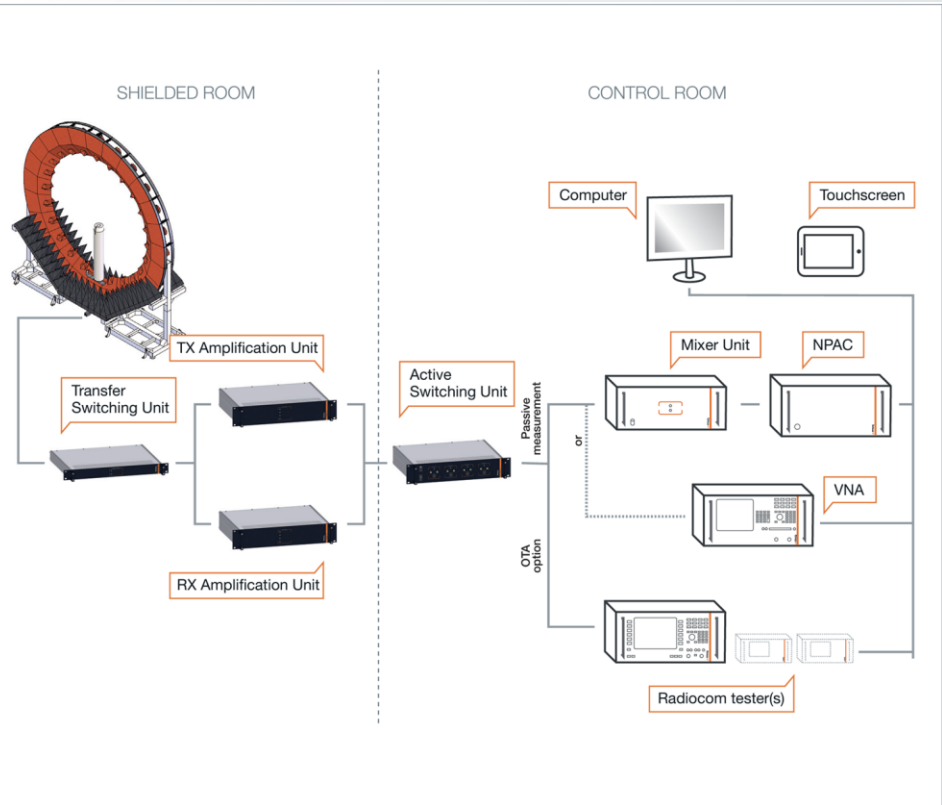
Authorized by: Hans Chen



- AUT Environment
 - Instrument Information
 - Test Method
- Antenna Performance
 - 2G Antenna



AUT Environment



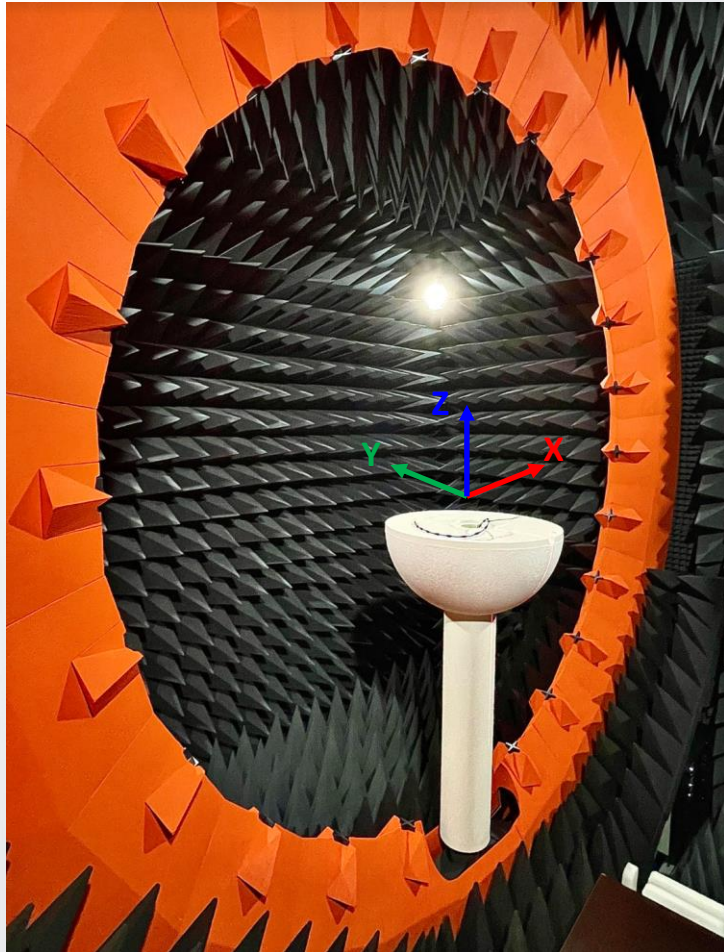
Calibration Record

- Full system calibration, including each instrument, will proceed once per year.
- Regular calibration, including efficiency/peak gain consistency check, will proceed with bi-monthly.

Instrument List	Manufacturer	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	Anritsu MT8821	2024/11/13	2025/11/12
Full System	SG24-Standard	2024/11/13	2025/11/12

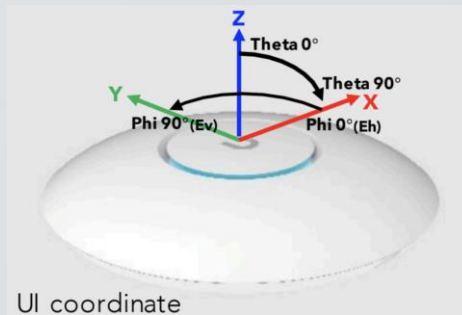


Test Method



Measurement Standard

- To fix device on the turntable, and laser positioning the height level in the center of the probe.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5° / Theta increment 5° .
- Finished 3D data collection along with Theta- $175^\circ \sim \text{Theta} 175^\circ$ and Phi $0^\circ \sim \text{Phi} 180^\circ$
- Frequency resolution setup depends on the different bands.

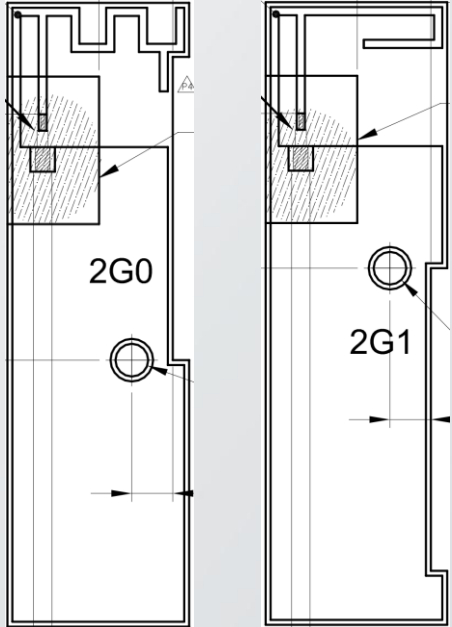


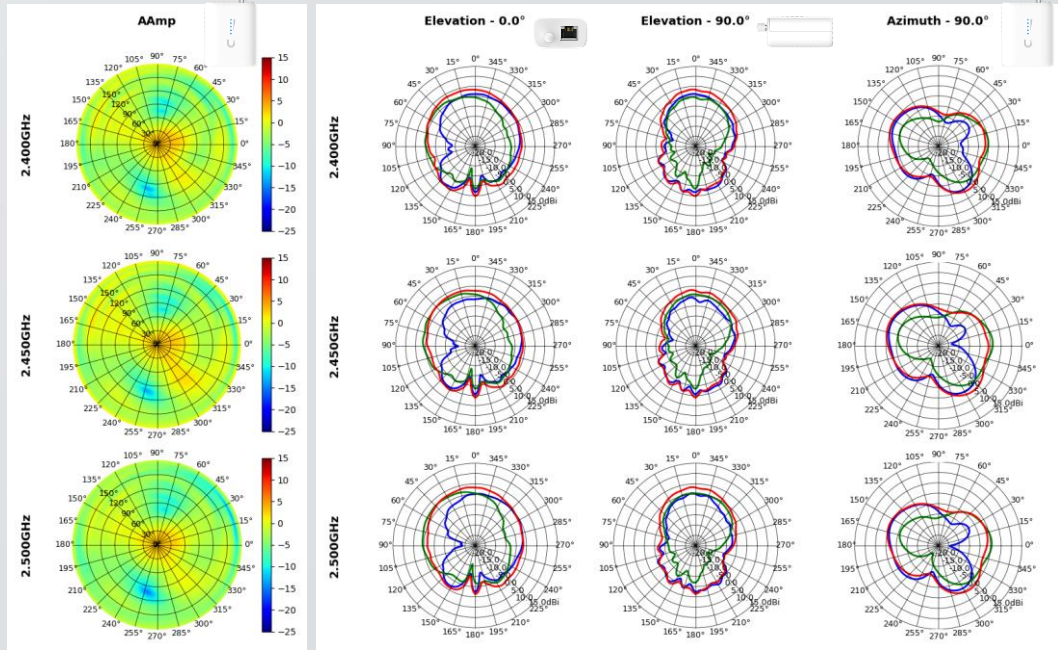


Antenna Performance

[UDB-IoT] 2G Antenna Performance

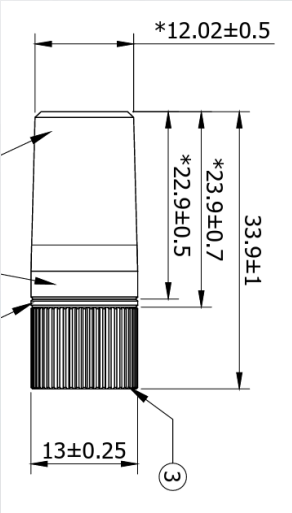


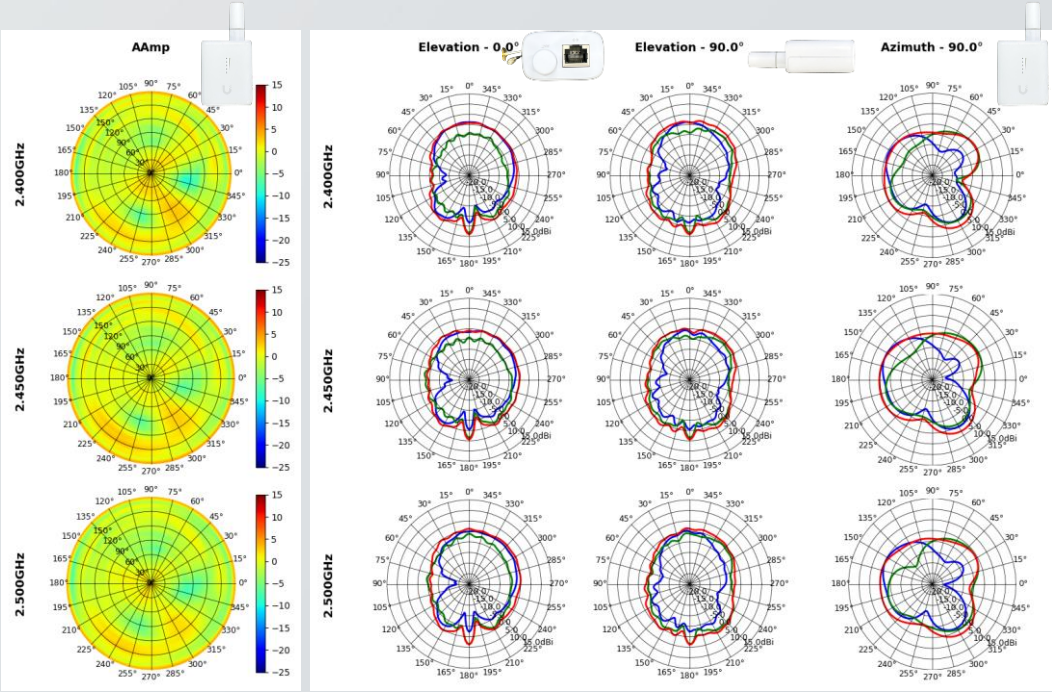
	WIFI 2G
Working frequency	2400-2500 MHz
Antenna type	PIFA
Gain	3.0dBi (Individual)
Model	117-06227 / 117-06228
Drawing	



[UDB-IoT] 2G External Antenna Performance



	WIFI 2G External Antenna
Working frequency	2400-2500 MHz
Antenna type	Monopole
Gain	4.0dBi (Individual)
Model	117-06221
Drawing	





Manufacturer: Ubiquiti Inc.

Address: 685 3rd Avenue Floor New York, NY 10017 United States