



U7-IW

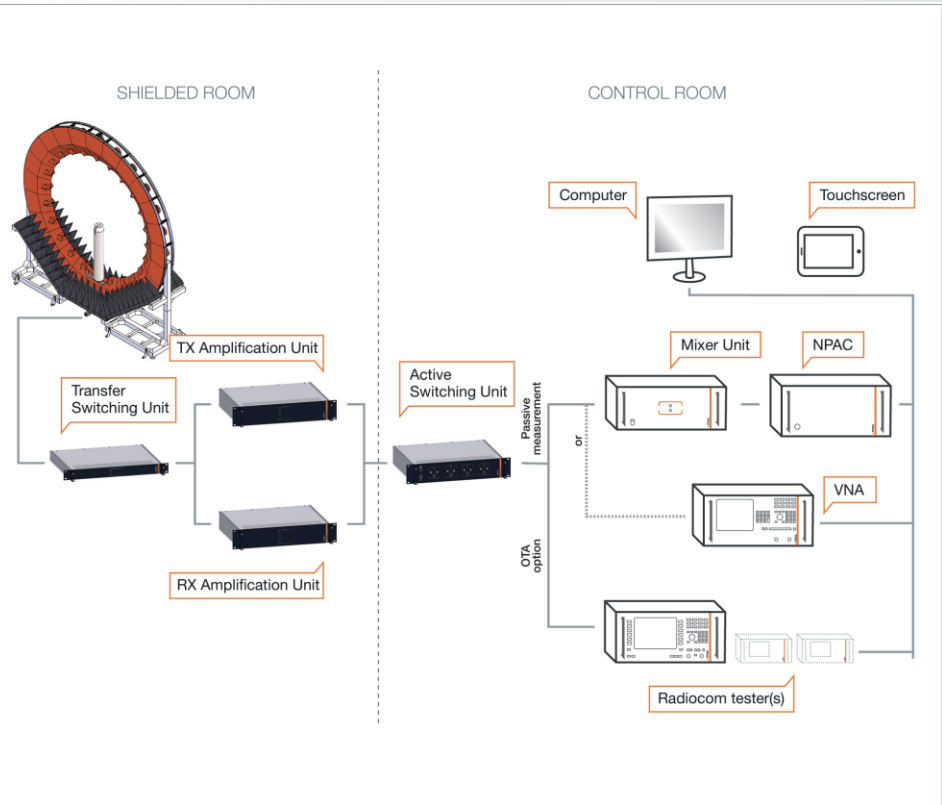
Antenna Datasheet



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 - 2G Antenna
 - 5G 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.

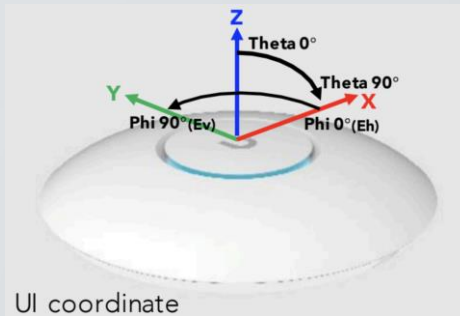
Instrument List	Manufacturer	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	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- $175^\circ \sim 175^\circ$ and Phi $0^\circ \sim 180^\circ$
- Frequency resolution setup depends on the different bands.

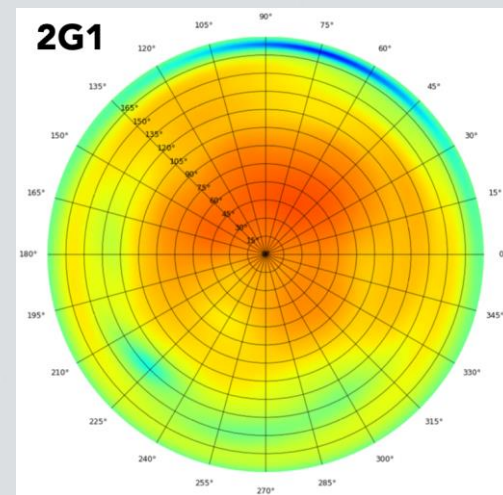
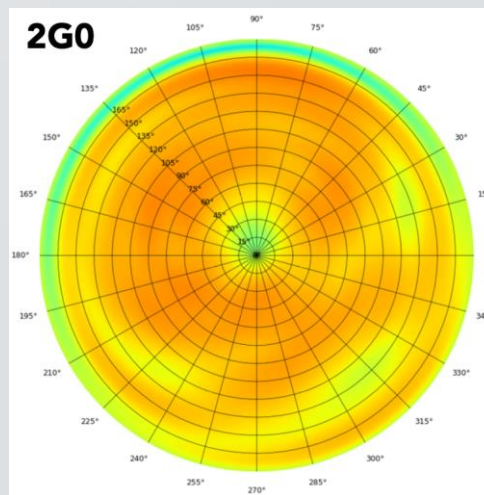
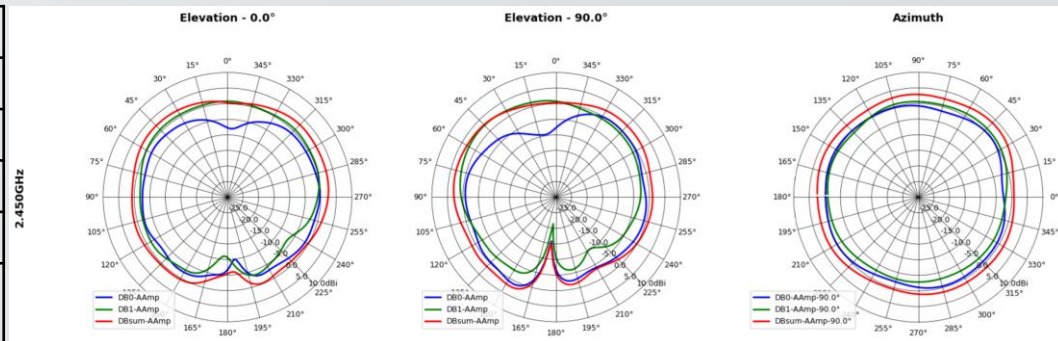




Antenna Performance

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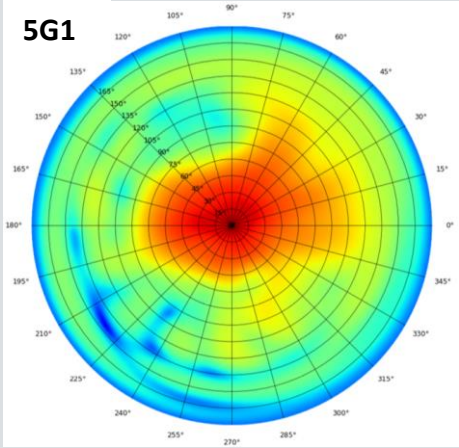
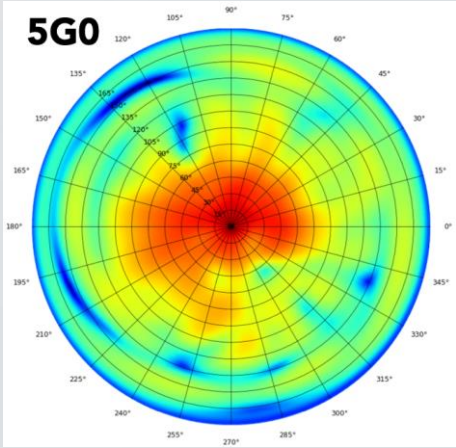
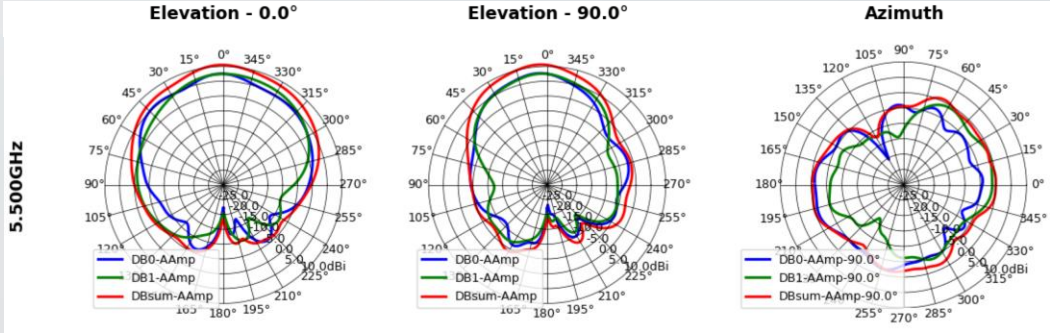
	WIFI 2G
Working frequency	2400-2500 MHz
Antenna type	PIFA
Gain	4.0dBi
Model	117-06087 / 117-06088
Drawing	<p>The drawing consists of two technical views of the antenna assembly. The top view shows the antenna's footprint on the PCB, with dimensions: 16.80±0.25 (width), 22.00±0.30 (length), 2.50±0.05 (distance from edge), 11.25±0.05 (distance from center), 17.25±0.25 (distance from edge), 5.00±0.05 (distance from edge), and 2-Ø2.20±0.05 (hole diameter). The side view shows the antenna's profile, with dimensions: 16.80±0.25 (width), 22.00±0.30 (length), 2.50±0.05 (distance from edge), 11.25±0.05 (distance from center), 17.25±0.25 (distance from edge), 5.00±0.05 (distance from edge), and 2-Ø2.20±0.05 (hole diameter). Labels A, B, C, and D are used to identify specific components or features.</p>



[U7-IW] 5G Antenna Performance



	WIFI 5G
Working frequency	5150-5850 MHz
Antenna type	PIFA
Gain	8.0dBi
Model	117-06087 / 117-06088
Drawing	





Manufacturer: Ubiquiti Inc.

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