



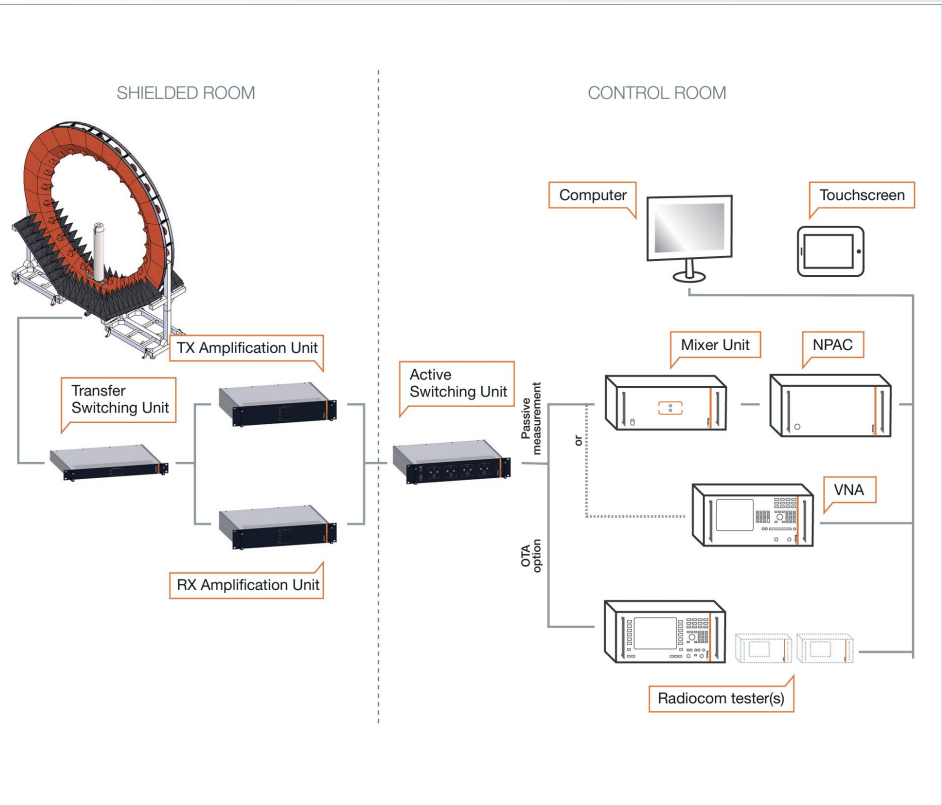
U5G-Max Antenna Datasheet



- AUT Environment
 - Instrument Information
 - Test Method
- Antenna Performance
 - 5G-NR Antenna
 - BT Antenna



AUT Environment



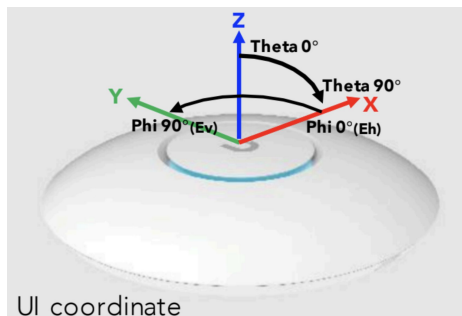
Calibration Record

- 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	Model	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

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

[5G-Link] 5G-NR Antenna Performance



	5G-NR		
Working frequency	5G-NR		
Antenna type	Monopole		
Gain	Shown on next page		
Model	117-06194	117-06195	117-06196
Drawing			

[5G-Link] 5G-NR Antenna Performance



Band	1	2	3	4	5	7	8	12	13	14	17	18	19
5G NR Sub-6 GHz	1.9	1.4	3.4		1.2	1.8	0.9	-0.7	-0.5	-0.2		1.2	
4G LTE	1.9	1.4	3.4	1.9	1.2	1.8	0.9	-0.7	-0.5	-0.2	-0.7	1.2	1.0

Band	20	25	26	28	29	30	32	34	38	39	40	41	42
5G NR Sub-6 GHz	0.8	1.4	1.4	0.8	-1.2	5.4			1.5		5.4	1.5	
4G LTE	0.8	1.4	1.4	0.8	-1.2	5.4	1.3	-0.7	1.9	3.4	5.4	3.4	1.2

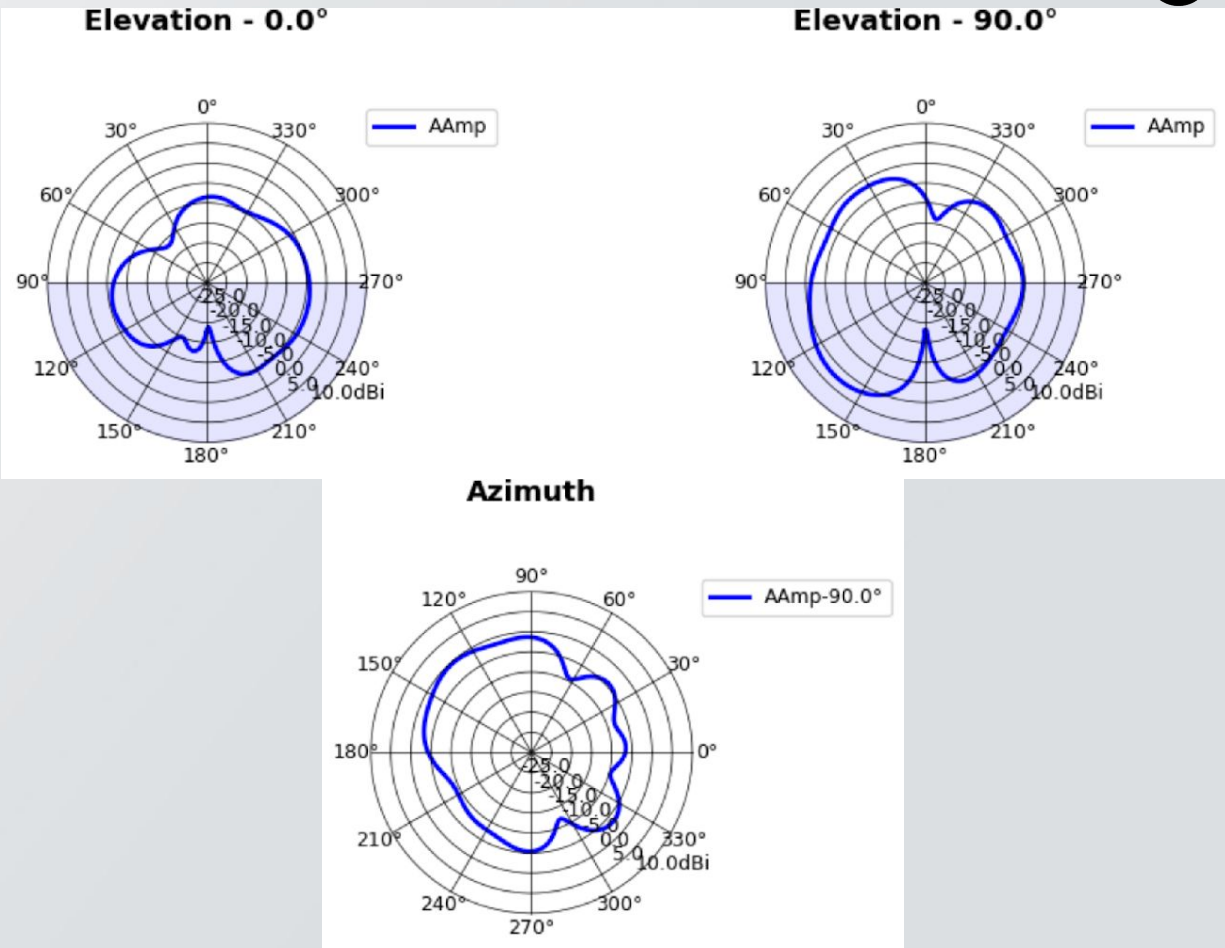
Band	43	46	48	66	70	71	75	76	77	78	79
5G NR Sub-6 GHz			-2.7	2.1	0.5	-0.5	1.8	-0.4	1.8	1.8	2.0
4G LTE	1.8	3.9	-1.2	2.1		-0.8					

***Blue: RX only**

[5G-Link] BT Antenna Performance



	BT
Working frequency	2400-2480 MHz
Antenna type	PIFA
Gain	0dBi
Model	117-03736
Drawing	





Manufacturer: Ubiquiti Inc.
Address: 685 3rd Avenue Floor New York, NY 10017 United States