



UDR 5G - Max Antenna Datasheet

Sony Chayadi

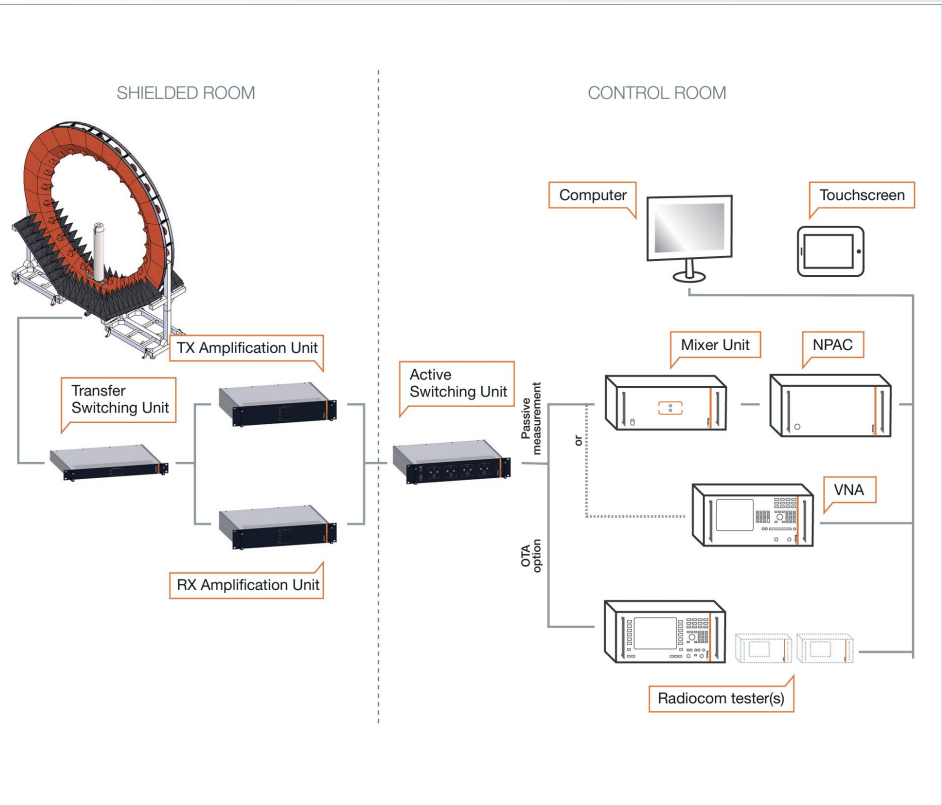
Authorized by: Sony Chayadi



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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.

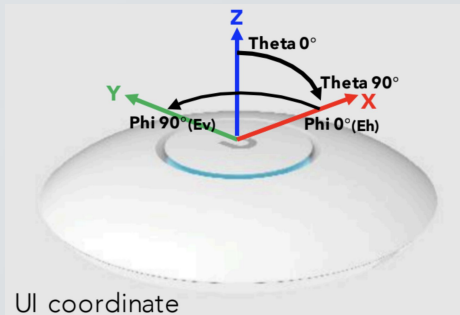
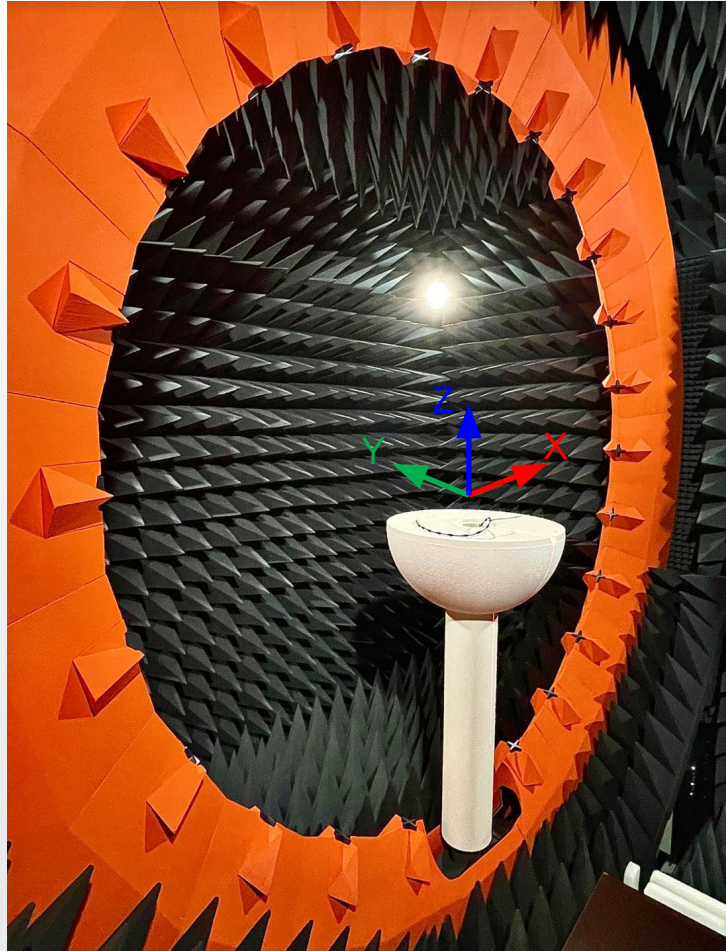
Instrument List	Model	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	Anritsu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



Test Method

Measurement Standard

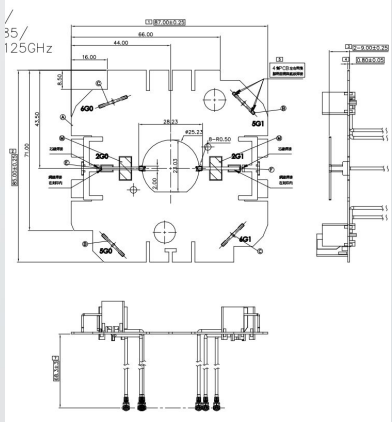
- To fix device on the turntable, and laser positioning the height level in the center of the probe.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5° / Theta increment 5° .
- Finished 3D data collection along with Theta- $175^\circ \sim \text{Theta}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

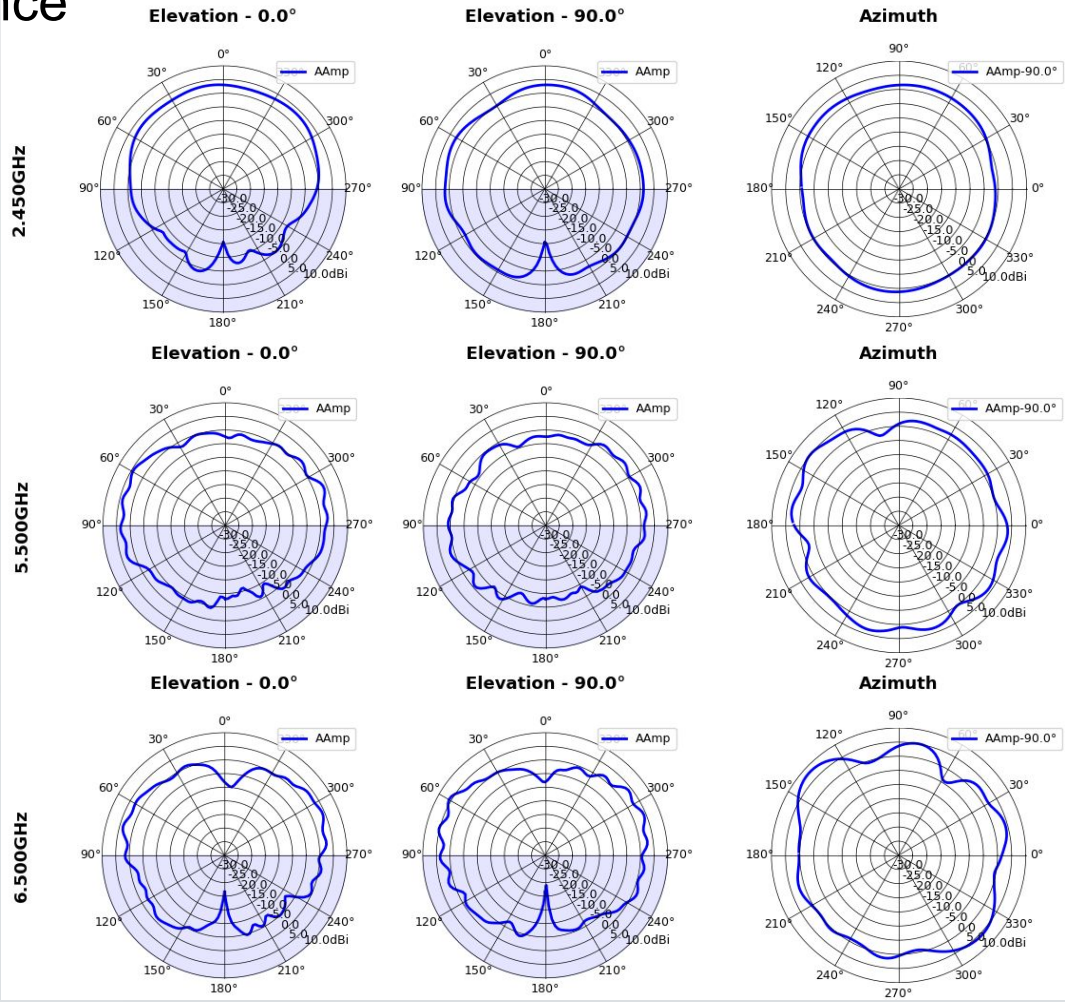




Antenna Performance

[UDR-5G Max] Antenna Performance

	WiFi
Working frequency	2400 – 2480 MHz 5150 – 5850 MHz 5925 – 7125 MHz
Antenna type	2G : PIFA , 5G & 6G : Monopole
Gain	2400 – 2480 MHz : 4dBi 5150 – 5850 MHz : 5dBi 5925 – 7125 MHz : 8dBi
Model	117-06197
Drawing	





[UDR-5G Max] Antenna Performance

	5G NR/LTE			
Working frequency	2400 – 2480 MHz 5150 – 5850 MHz 5925 – 7125 MHz			
Antenna type	Monopole			
Gain	Details on next page			
Model	117-06198 (ANT0)	117-06200 (ANT1)	117-06250 (ANT2)	117-06199 (ANT3)
Drawing				

[UDR-5G Max] 5G-NR Antenna Performance



Band	1	2	3	4	5	7	8	12	13	14	17	18	19
5G NR Sub-6 GHz	3.7	3.7	4.2		0	5.3	1	-0.5	0.5	-0.2		0.5	
4G LTE	3.7	3.7	4.2	4.2	0	5.3	1	-0.5	0.5	-0.2	-0.5	0.5	-0.2

Band	20	25	26	28	29	30	32	34	38	39	40	41	42
5G NR Sub-6 GHz	0.6	3.6	0.5	0.5	-0.5	-1.5			4.2		5.0	5.3	
4G LTE	0.6	3.6	0.5	0.5	-0.5	-1.5	0.9	3.9	5.3	3.4	5.0	5.3	2.4

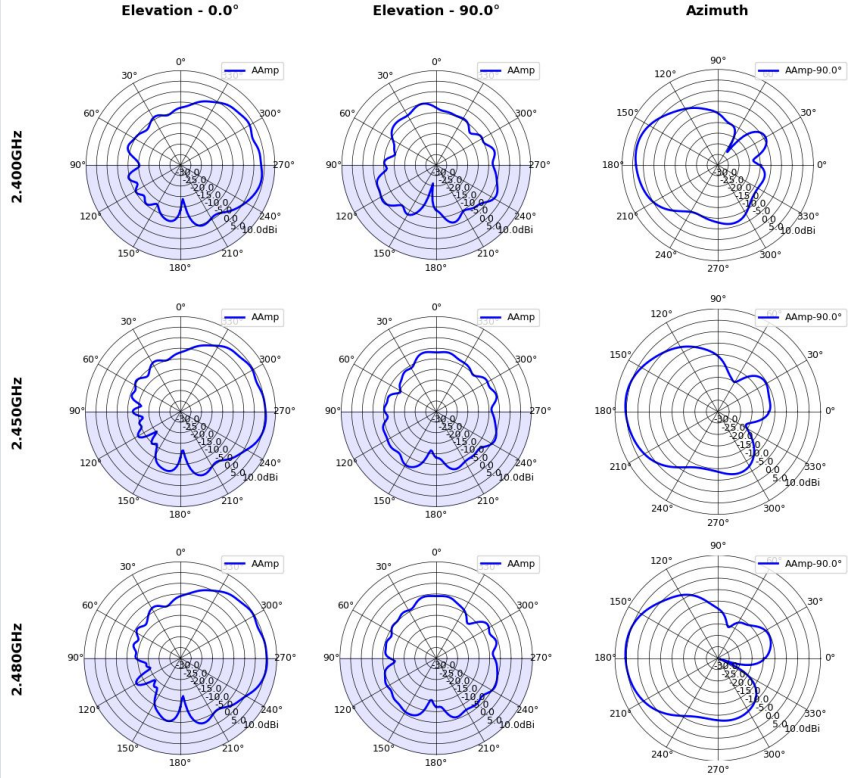
Band	43	46	48	66	70	71	75	76	77	78	79
5G NR Sub-6 GHz			-2.6	4.2	4.3	-0.5	3.2	3	2.4	2.4	2.8
4G LTE	4.7	5.8	-1.2	4.2		-0.5					

*Blue: RX only



[UDR-5G Max] Antenna Performance

	BT
Working frequency	2400 – 2480 MHz
Antenna type	Dipole
Gain	6 dBi
Model	117-06208
Drawing	





Manufacturer: Ubiquiti Inc.

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