

Masterwave Technologies Co., Ltd.

Antenna Test Report



Total Solutions For your Needs



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Antenna Description

Company name	Address
Master Wave Technology Co.,Ltd.	No. 19, Hezun N. Rd., Zhongli Dist., Taoyuan City 320, Taiwan (R.O.C.)

Location	Antenna model	Antenna application	Material	Antenna Type	Peak Gain
[4]、[5]	98110UNXX001	5G Antenna	Fiber Glass	Omni Dipole	6.54 dBi

Location	RF Cable	5G Cable Loss
5	RF CABLE N-F to MHF 1.37 L= 360mm White	2.13
4	RF CABLE N-F to MHF 1.37 L= 180mm Grey	1.1

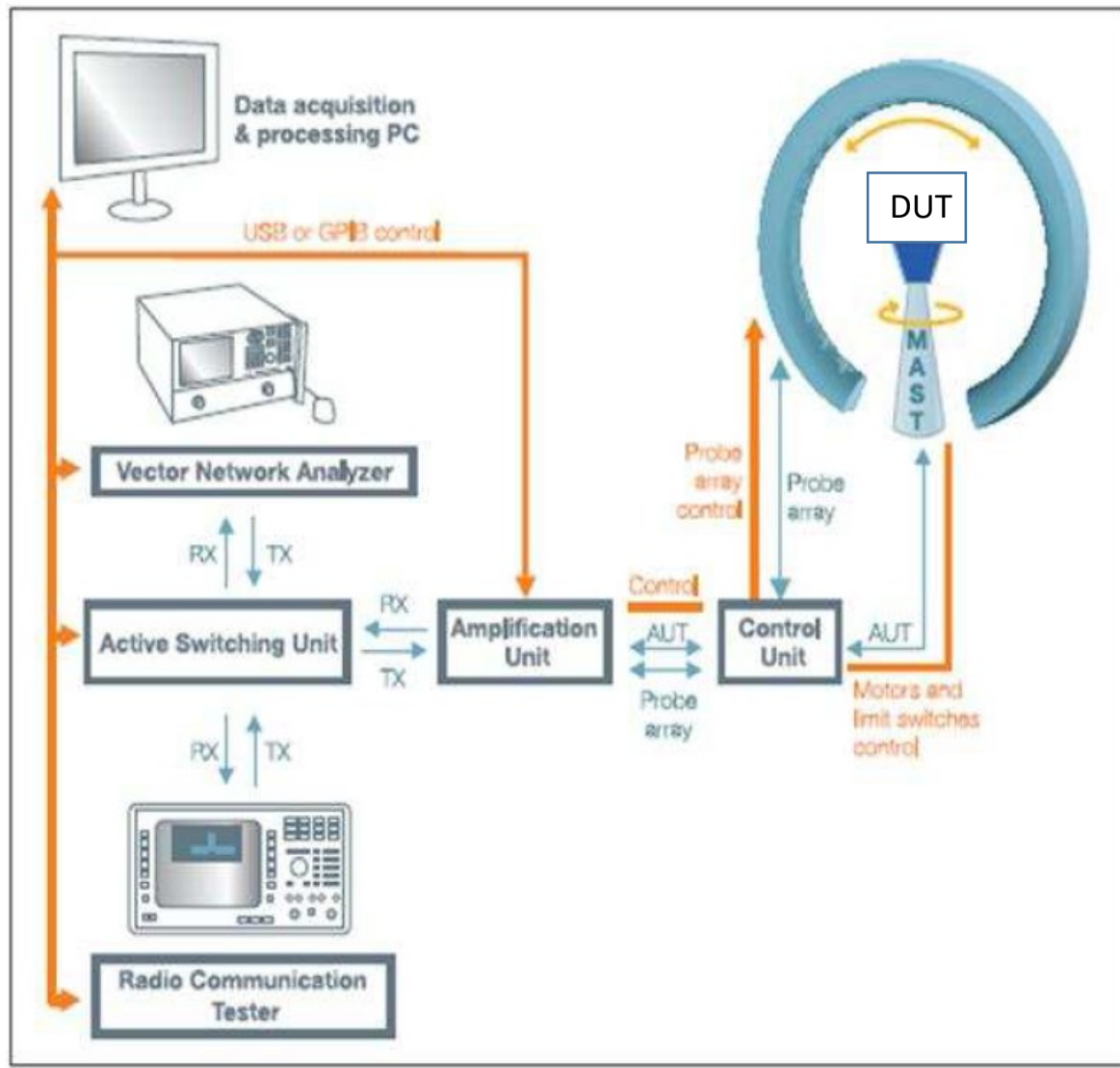
Antenna test diagram

Product location



Experimental Setup & Coordinate System

Satimo - SG24 Chamber Info.



Calibrated and measurement equipment table list

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Due Date
Full Anechoic Wireless Test chamber	MVG	SG - 24	N/A	06-Jun.-2022	06-Jun.-2023
Test Software	MVG	Wave Studio	N/A	N.C.R	----
Multi-Axis Positioning System (MAPS)	MAC23	DUT positioner	N/A	N.C.R	----
Turn Table	MAC23	N/A	N/A	N.C.R	----
ENA Series Network Analyzer	Keysight	E5080B	MY59201608	Jun.-2021	Jun.-2023

Note:

1. N.C.R. = No Calibration Request.
2. This ant. test chamber is located in Master wave which address is :
Add: No. 19, Hezun N. Rd., Zhongli Dist., Taoyuan City 320, Taiwan (R.O.C.)
Tel: +886-3-452-9998



Peak Gain & Peak gain at polarization

5G ANT [98110UNXX001]			
Frequency	5150 MHz	5500 MHz	5850MHz
Peak Gain	6.54 dBi	6.31 dBi	6.34 dBi
Peak gain at polarization	(Φ) 177°(θ)180°	(Φ) 177°(θ)180°	(Φ) 177°(θ)180°

※ Φ (Phi) ; θ (Theta)

※ Peak Gain (G) and directivity (D) are linked by the formula $G = k \times D$, where the antenna effective factor k ($0 \leq k \leq 1$) corresponds to the overall losses of the antenna. Accordingly antenna gain can be calculated by the following formula, where represents antenna losses comprising of all ohm and dielectric losses between the input connector and the outer surface of the radome and the loss due to the impedance mismatch.

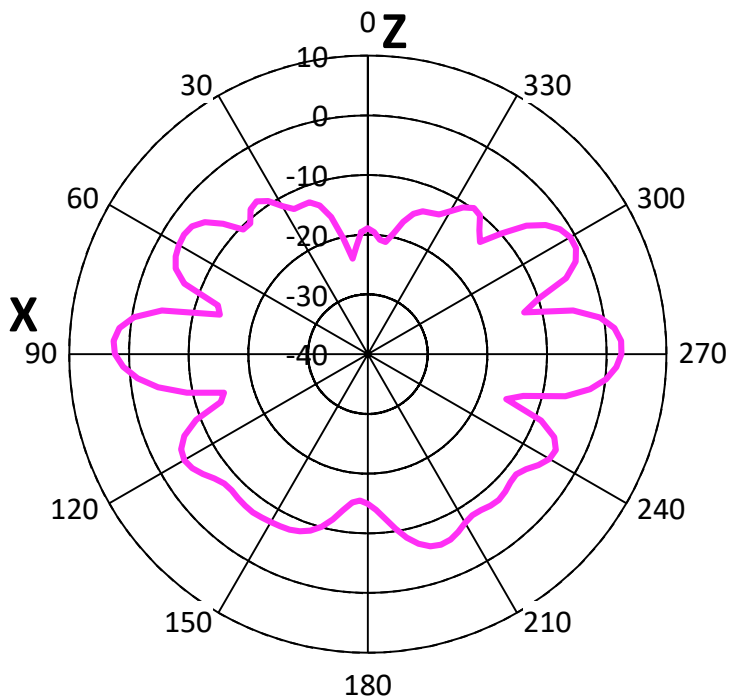


External Antenna 2D Radiation Pattern (2/1)

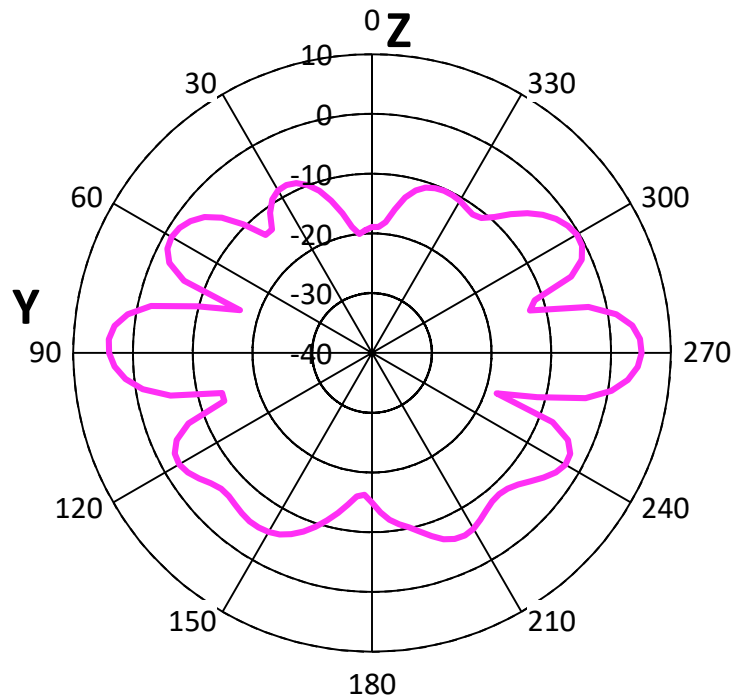
5G ANT [98110UNXX001]

5500MHz

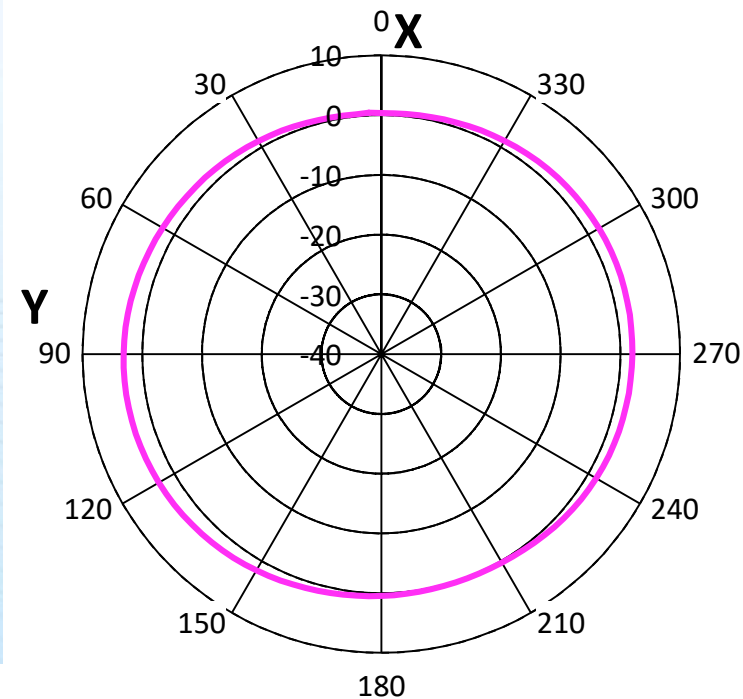
ZX-Plane



ZY-Plane



XY-Plane





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Master Wave Technology Co., Ltd

THANK YOU FOR YOUR ATTENTION.

We welcome your questions, suggestions and comments!