

Antenna Test Report

Date: Dec.23.2024
rev.1

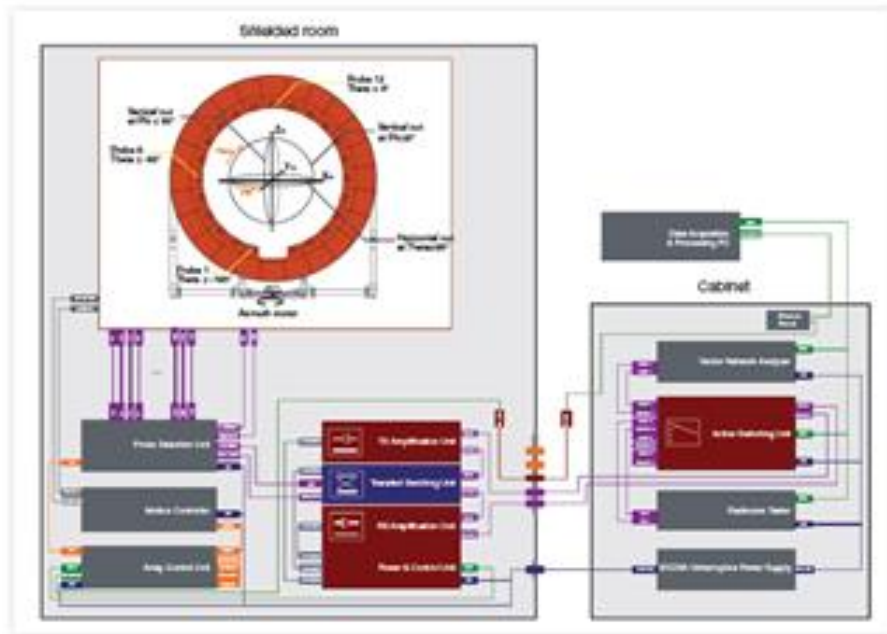
Address: 20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan

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Chamber Info.

- Antenna Vendor : WNC
- Test Date : 20241220
- Test Engineer : Dennis
- Measurement System : SATIMO SG24
- Software Name : Wave Studio
- Software Version : 22.5.6



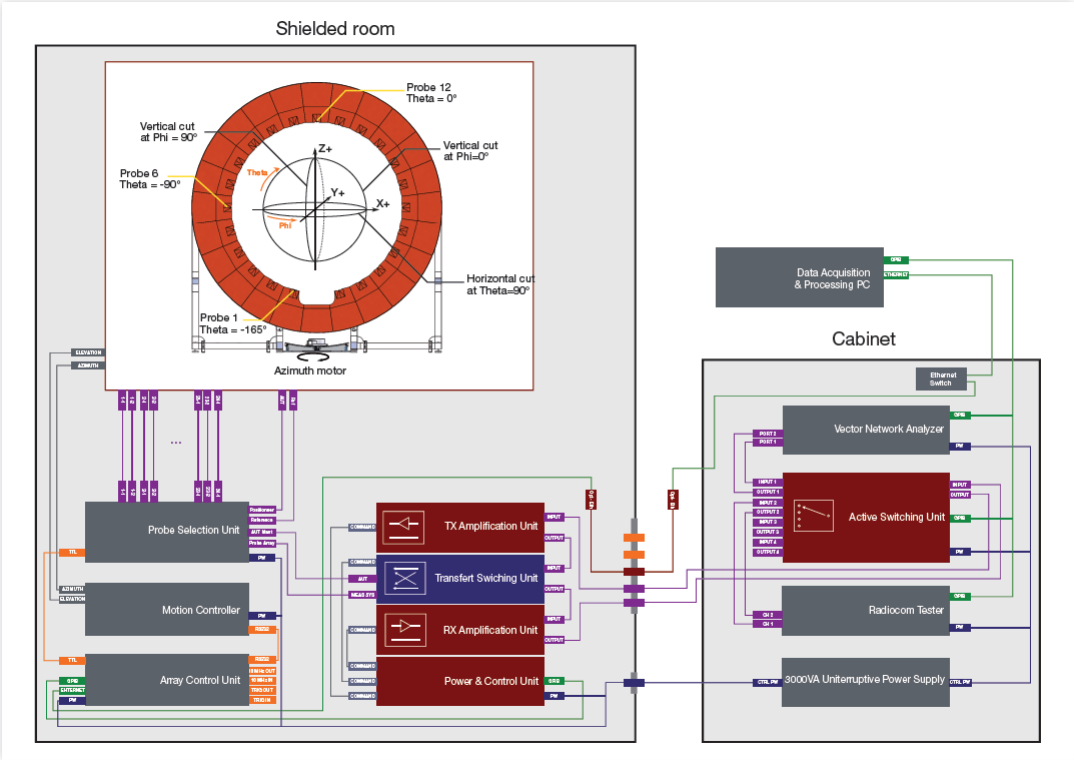
Chamber Info.

- Measurement System: SATIMO SG24 Chamber

Measurement setup:

- pattern & gain measurement
 - 1.satimo chamber (SG24)
 - 2.satimo program (wave studio)
 - 3.system overview :
- test item
 - 1.antenna passive test 400MHz~9GHz

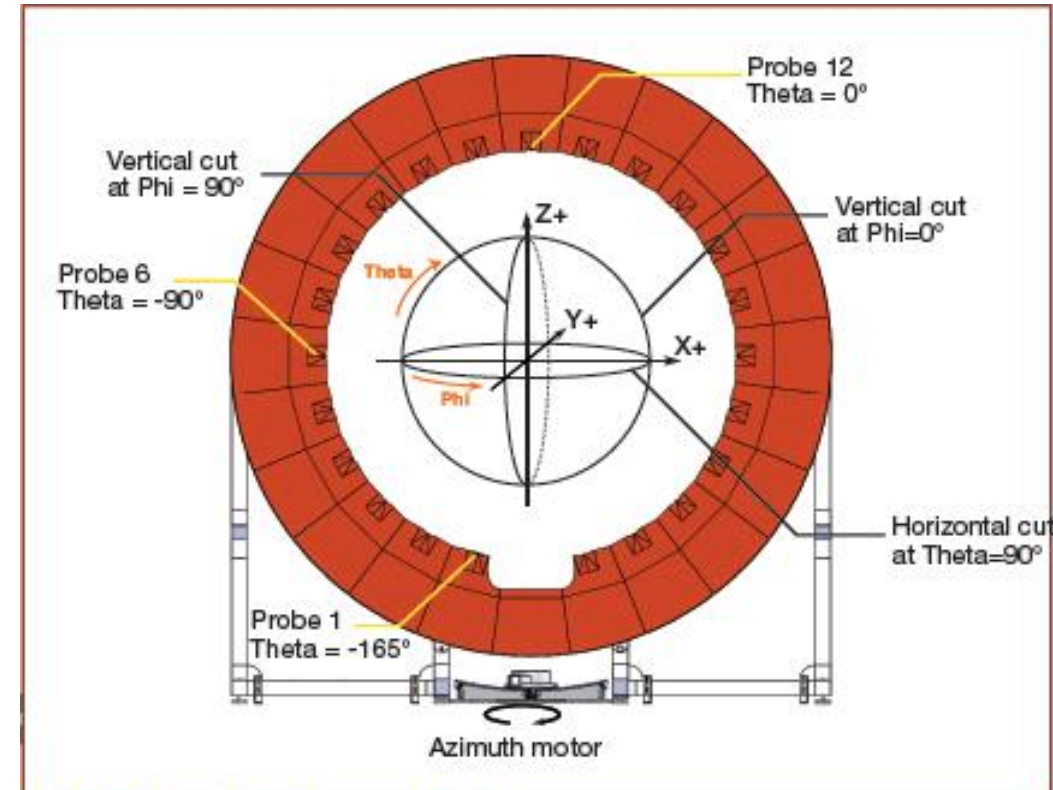
- Calibration Information



Device	Type / Model	Serial #	Manufacture	Cal. Date	Cal. Until
Antenna Measurement System	SG24-L	HKG1669S	MVG-SATIMO	2024-08-02	2025-08-01
Network Analyzer	Keysight E5080B	MY59203136	Keysight	2024-12-04	2025-12-03

Chamber Info.

1. Place the device to be tested on the fixture and align it with the center of the chamber.
2. Connect the antenna cable to the RF connector of the chamber.
3. Use the SW to configure parameters (antenna name, frequency points, measurement angles, antenna dimension), and then run the test SW (wave studio).
4. By phi from 0° to 360° and theta from 0° to 180° with a step size of 2 degrees, get the 3D data, including efficiency, peak gain, 2D and 3D radiation patterns.
5. This is far field test for antenna verification.
6. This is passive measurement, which means the device is off and not in any operating mode.



Name and address of the antenna manufacture



NEWEB VIETNAM CO., LTD.

- *Land Lot CN01, Dong Van III Industrial Zone, Dong Van Ward, Duy Tien Town, Ha Nam Province, Vietnam*
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Antenna Specification

90VYAA15.G02 - ANT1(white cable)	
Frequency	2400~2500MHz, 5150~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	1.52dBi@2400~2500MHz 3.50dBi@5150~5895MHz 5.46dBi@5925~7125MHz

90VYAA15.G02 - ANT2(black cable)	
Frequency	2400~2500MHz, 5150~7125MHz
Antenna type	Dipole
Connector type	IPEX
Antenna Gain	2.36dBi@2400~2500MHz 4.65dBi@5150~5895MHz 4.75dBi@5925~7125MHz

Peak Gain

Test date: 2024/12/20
Test personnel : Dennis Huang

2.4GHz	Freq. (MHz)	2450
ANT1(white cable)	Peak Gain(dBi)	1.52
ANT2(black cable)	Peak Gain(dBi)	2.36

5GHz	Freq. (MHz)	5200	5300	5600	5785	5885
ANT1(white cable)	Peak Gain(dBi)	3.44	3.50	3.30	2.77	2.57
ANT2(black cable)	Peak Gain(dBi)	2.86	2.60	4.65	4.62	4.64

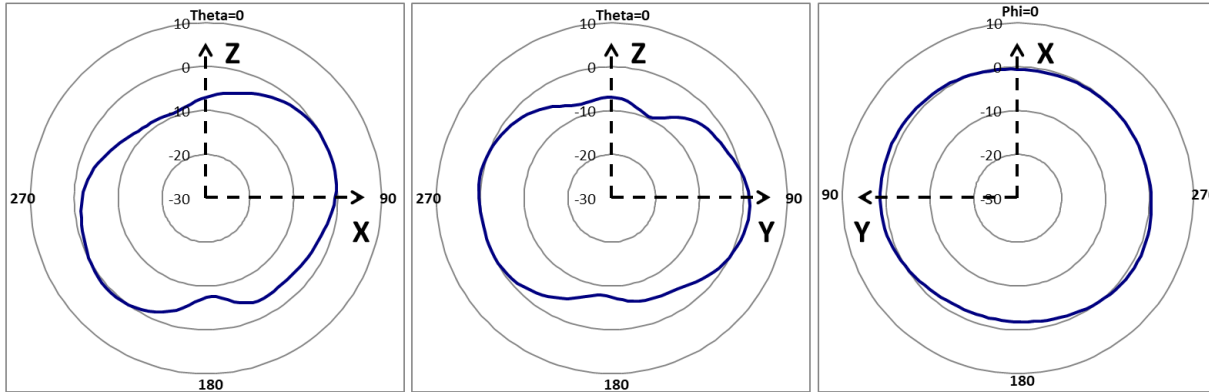
6GHz	Freq. (MHz)	6200	6470	6700	7000
ANT1(white cable)	Peak Gain(dBi)	3.22	4.45	5.25	5.46
ANT2(black cable)	Peak Gain(dBi)	4.66	4.69	4.75	4.66

Radiation Pattern - ANT1(white cable)

Test date: 2024/12/20
Test personnel : Dennis Huang

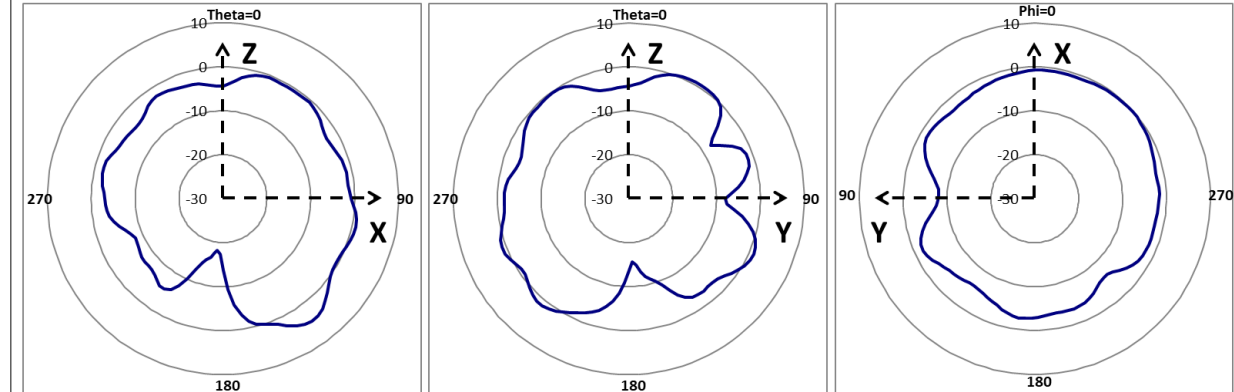
2G Radio
Radiation Pattern

— white



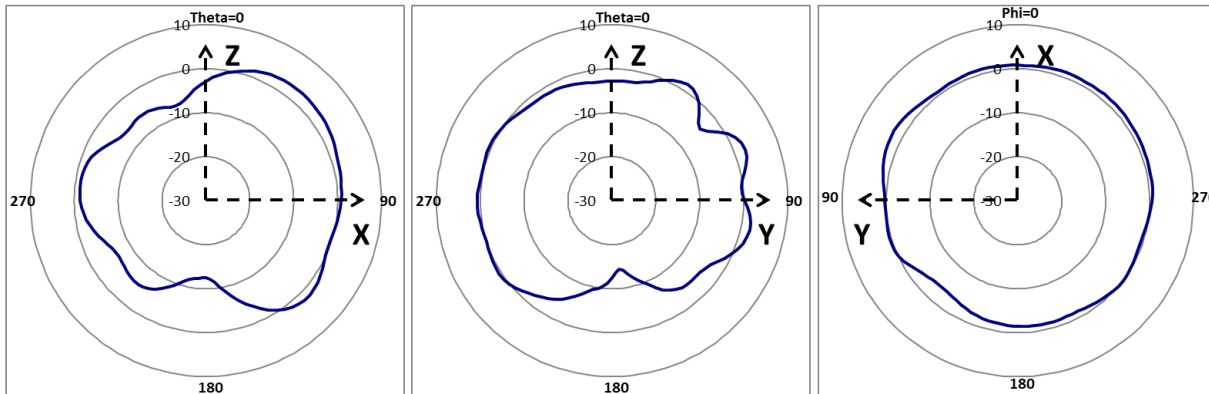
6G Radio
Radiation Pattern

— white



5G Radio
Radiation Pattern

— white

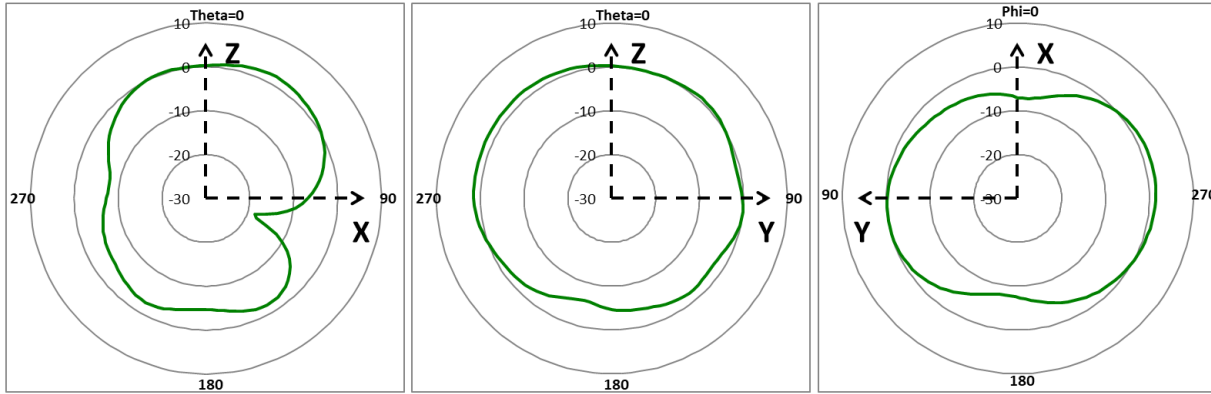


Radiation Pattern - ANT2(black cable)

Test date: 2024/12/20
Test personnel : Dennis Huang

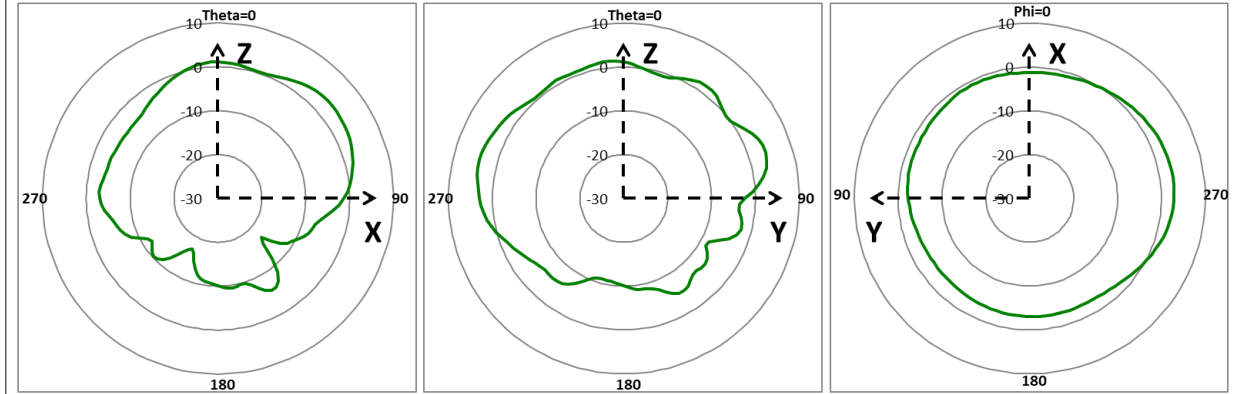
**2G Radio
Radiation Pattern**

— black



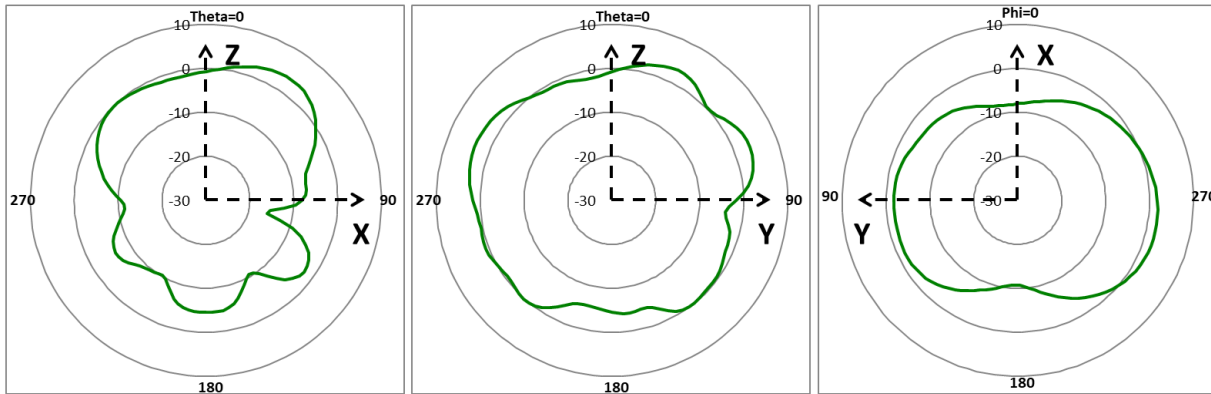
**6G Radio
Radiation Pattern**

— black



**5G Radio
Radiation Pattern**

— black



WNC

Wistron NeWeb Corp.

