



Antenna Gain Test Report

Project No.: 4790763966

Client Name: TEN PAO PRECISION ELECTRONICS COMPANY LIMITED

Client Address: RM 610-611 6/F KWONG SANG HONG CENTRE 151-153 HOI BUN RD KWUN TONG KL

Product Name: Flicker Bluetooth Adapte

Product Model: FLICKER; DMTGWPWMBTBT

Model Difference: All the same except for the model's name.

Manufacture: TEN PAO PRECISION TECHNOLOGY (HUIZHOU) COMPANY LIMITED

Antenna Type: PCB

Antenna Size: 12.7 mm * 6 mm

Project Engineer: James Qin

Test Engineer: Burt Hu

Test Standards: ANSI/IEEE std 149-2021

Date of Tested: 2023.6.9

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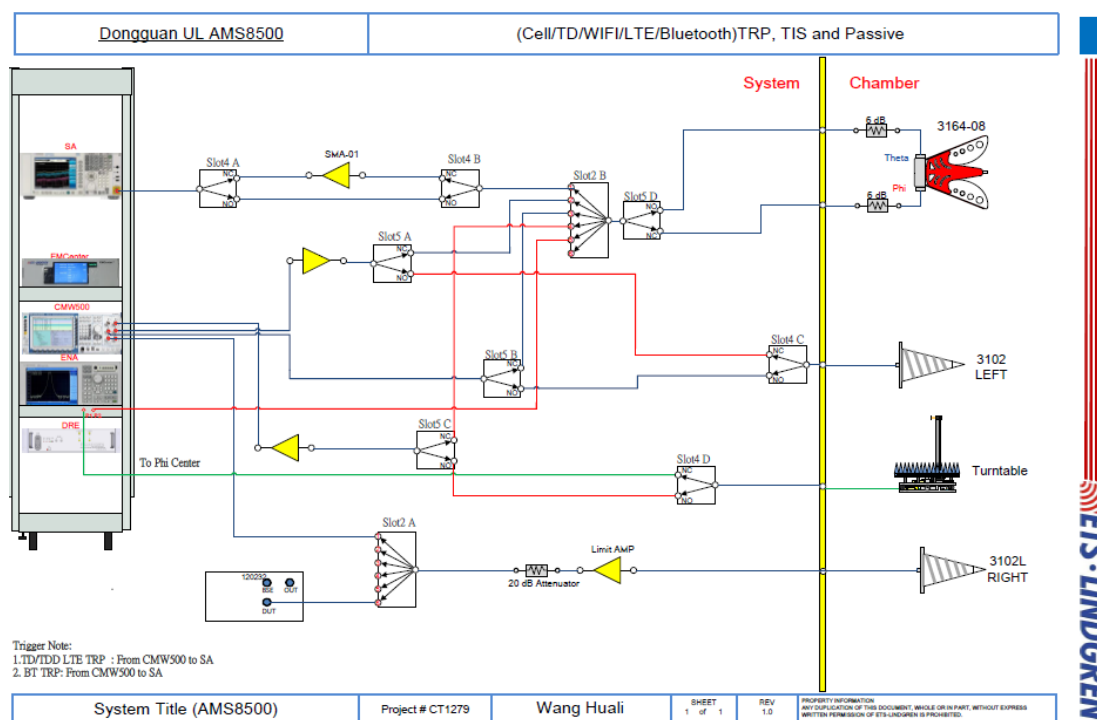


Issued Date: 2023.6.9

1 Test Equipment Information

Equipment	Manufacturer	Mode No.	Serial No.	Cal date	Cal Due
Test Chamber	ETS-Lindgren	8500	/	/	/
Test Software	ETS-Lindgren	EMQuest V1.12	1496	/	/
Network Analyzer	Keysight	E5071C	MY46524531	2022.10.17	2023.10.16
EXA Singal Analyzer	Keysight	N9010A	MY55150514	2022.10.17	2023.10.16

2 Setup block diagram



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3 Test Temperature and Humidity

Temperature: 22.3°C

Humidity: 57.6%

4 Test Step Flow

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

5 Test Result

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	57.96	5.61
2410	58.80	5.70
2420	60.22	5.83
2430	60.79	5.86
2440	60.70	5.88
2450	59.42	5.79
2460	57.74	5.67
2470	56.73	5.57
2480	56.65	5.51
2490	57.41	5.49
2500	58.66	5.53

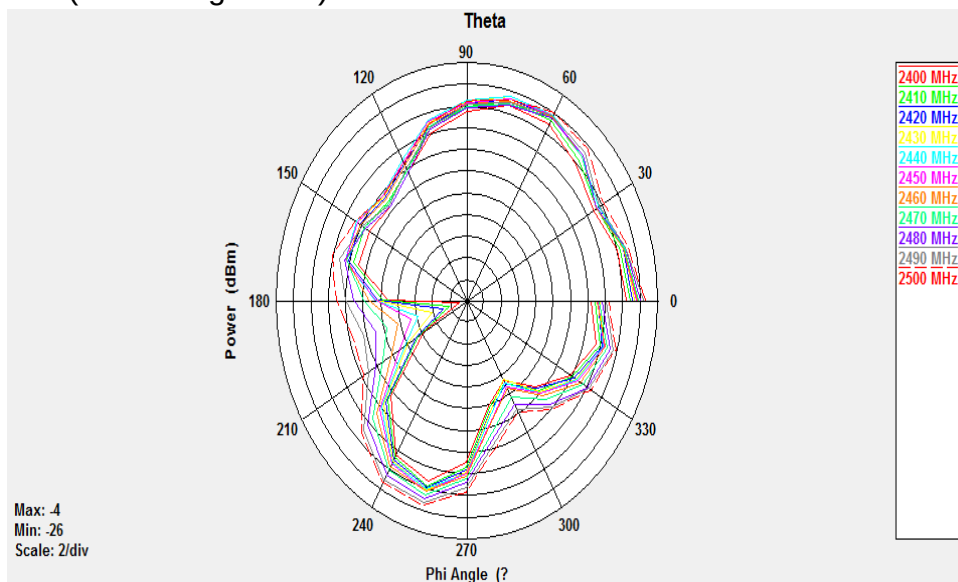
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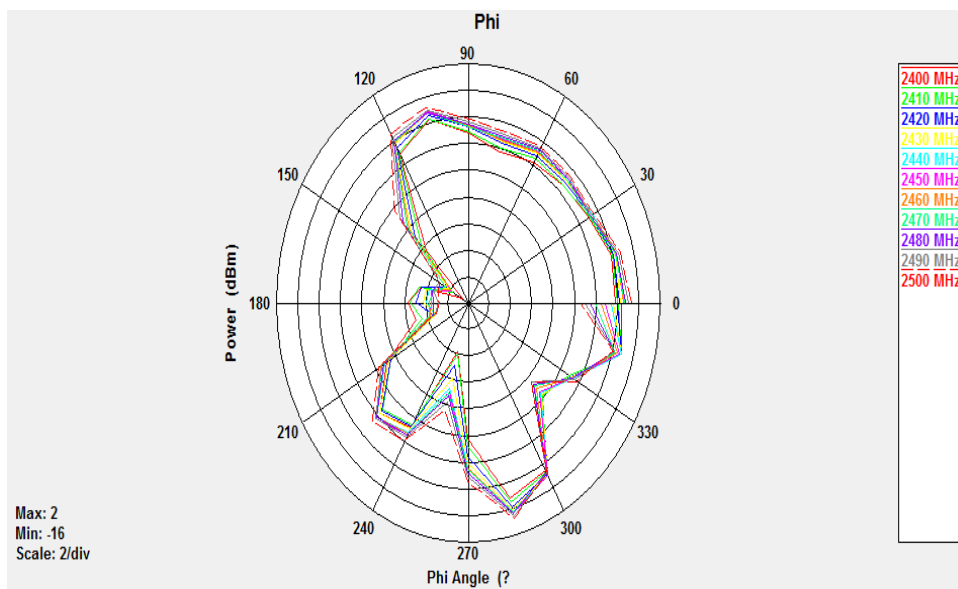


Polarization Pattern Photos

Theta Polarization(Theta Angle=90°)



Phi Polarization(Theta Angle=90°)

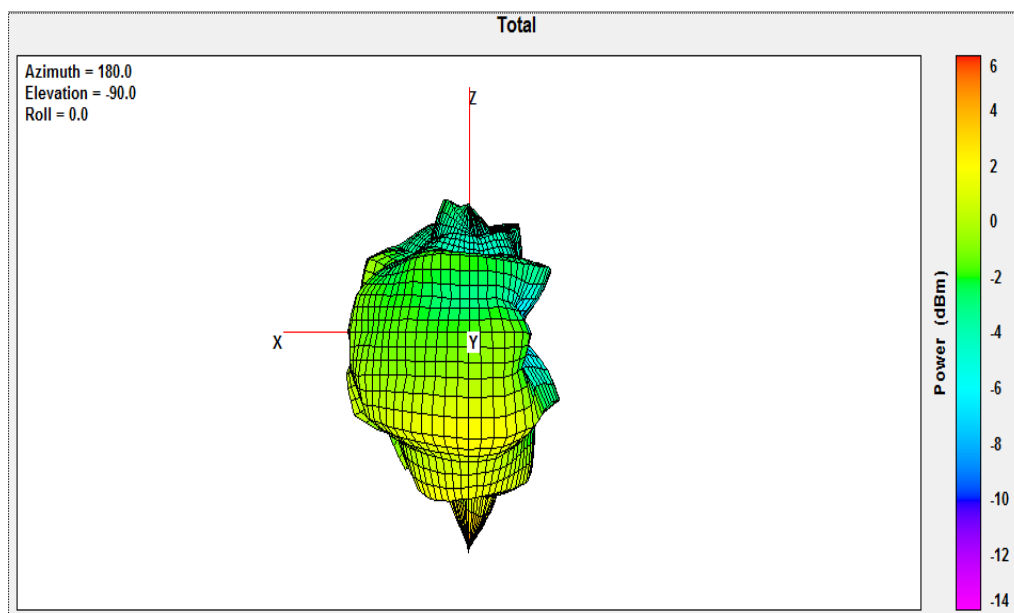
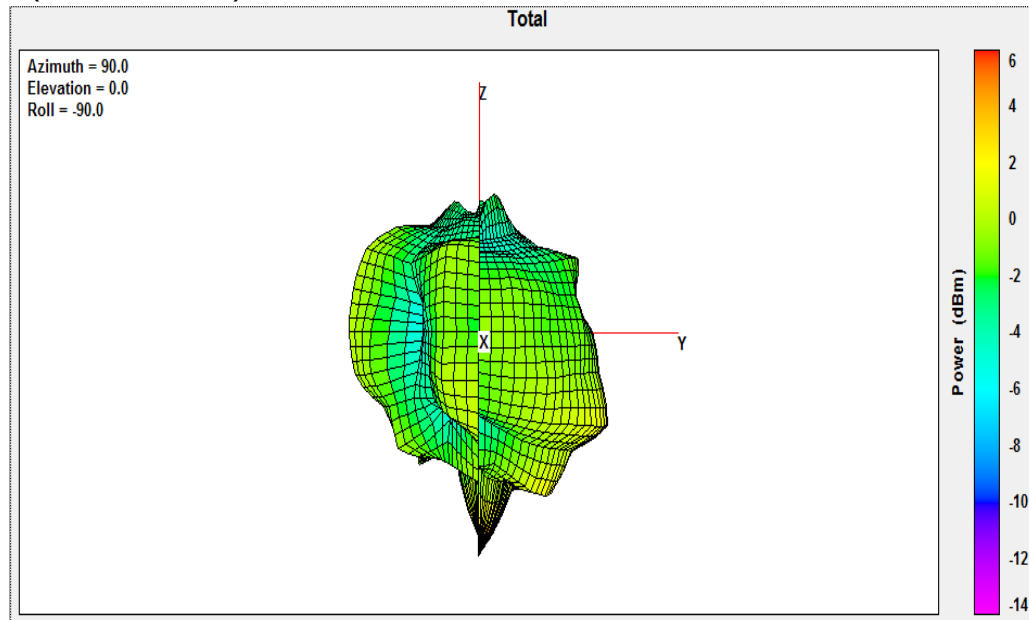


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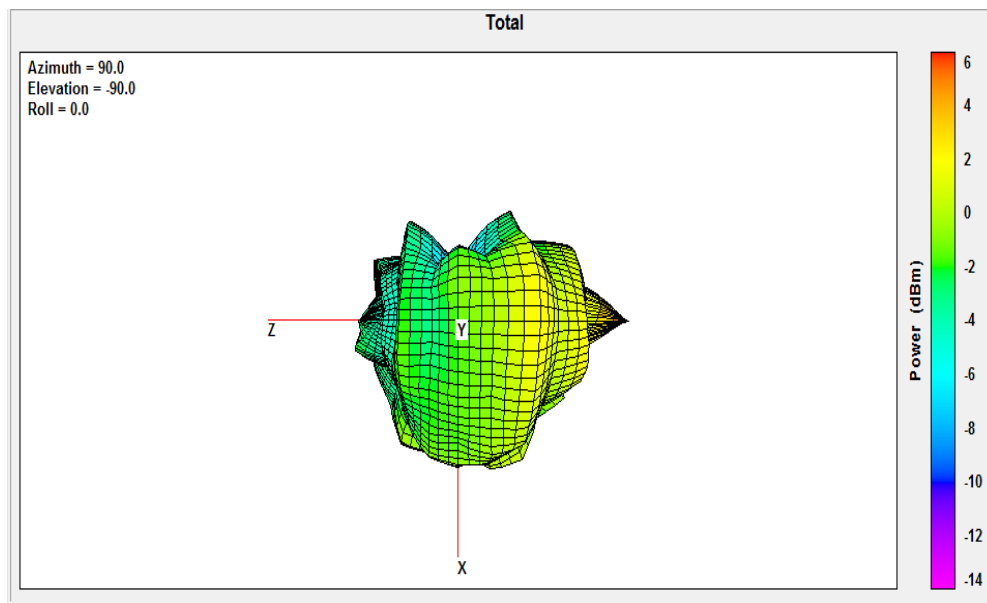


Total 3D Plot(Fre.2440MHz)



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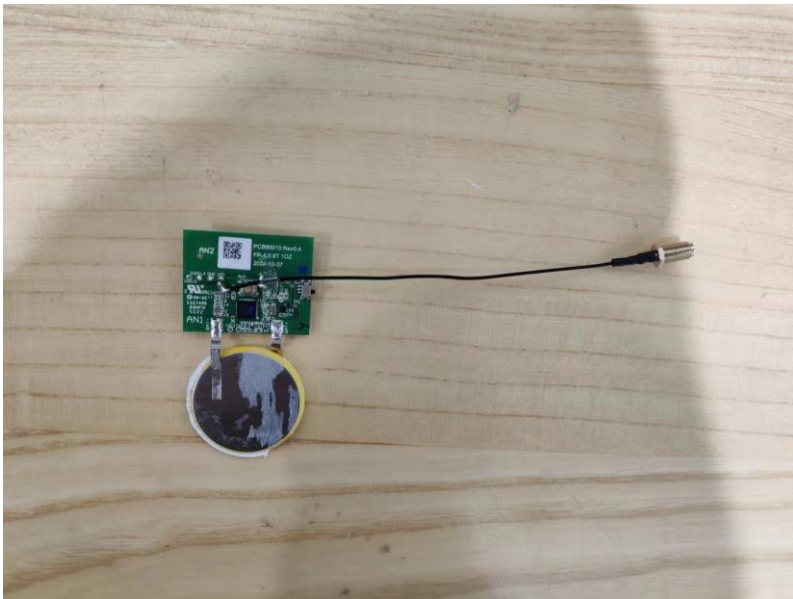


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6 Photo



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