



Antenna Gain Test Report

Project No.: 4790752179

Client Name: SHANGHAI ISHIDA ELECTRONIC SCALES CO.,LTD.

Client Address: Building 2, No.86, Minxue Rd, Pudong, Shanghai

Product Name: Dipole Antenna

Product Model: SI-T2

Manufacture: SHANGHAI ISHIDA ELECTRONIC SCALES CO.,LTD.

Antenna Type: Dipole

Antenna Size: 109 mm * 9 mm * 9 mm

Project Engineer: James Qin

Test Engineer: Burt Hu

Test Standards: ANSI/IEEE std 149-2021

Date of Tested: 2023.3.27

Issued Date: 2023.3.27

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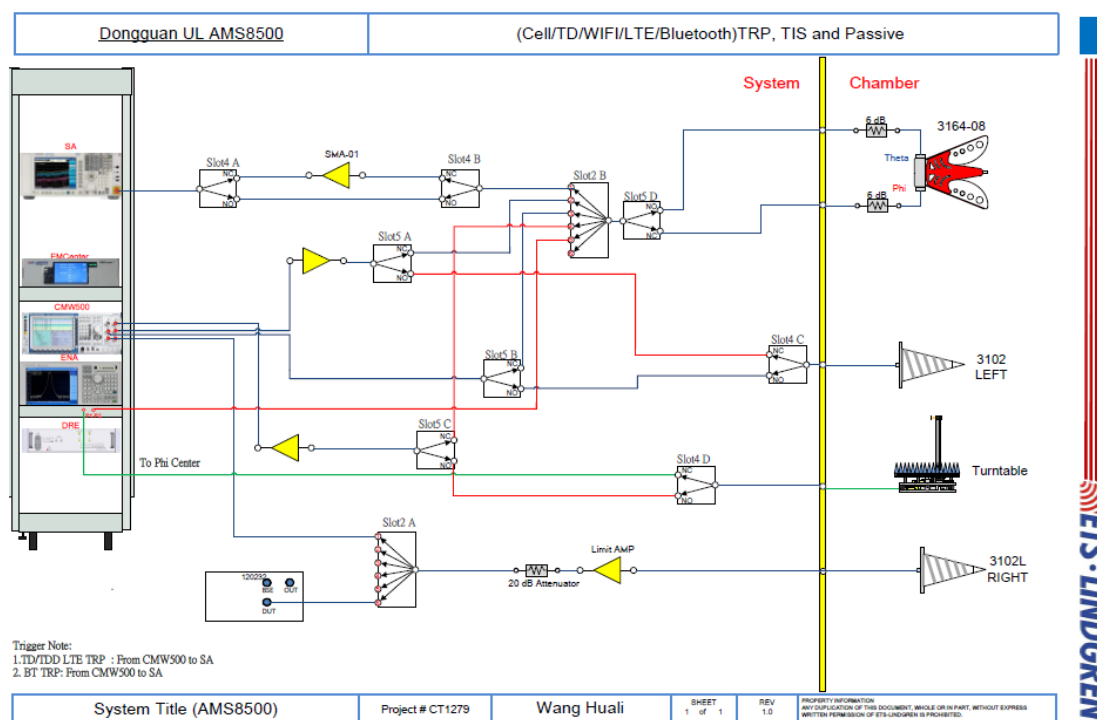
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1 Test Equipment Information

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: 62%

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

SI-T2

2.4GHz

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	65.02	4.28
2410	64.69	4.26
2420	65.26	4.34
2430	65.11	4.39
2440	64.46	4.40
2450	62.91	4.38
2460	61.31	4.35
2470	60.28	4.25
2480	60.11	4.41
2490	60.84	4.64
2500	62.23	4.90

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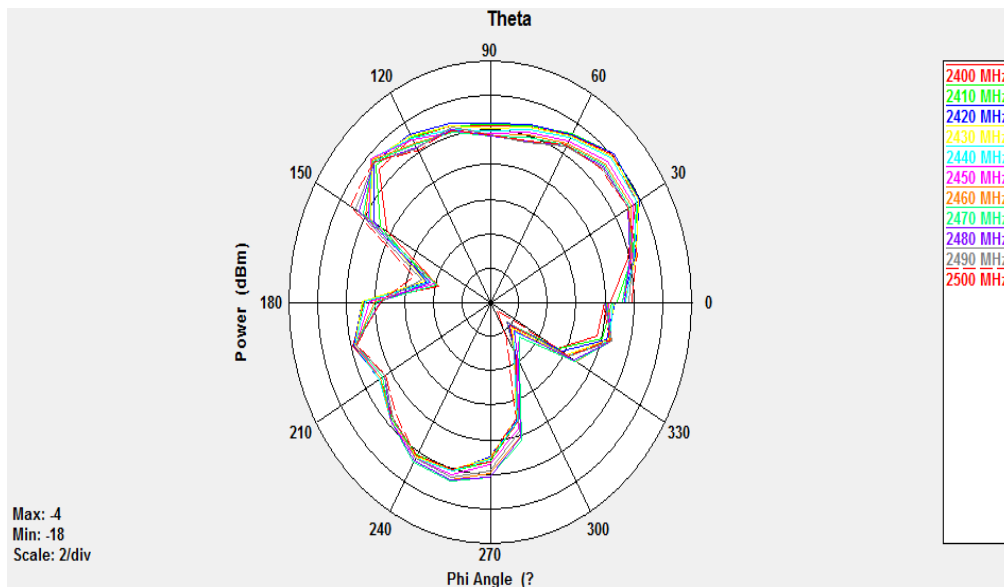
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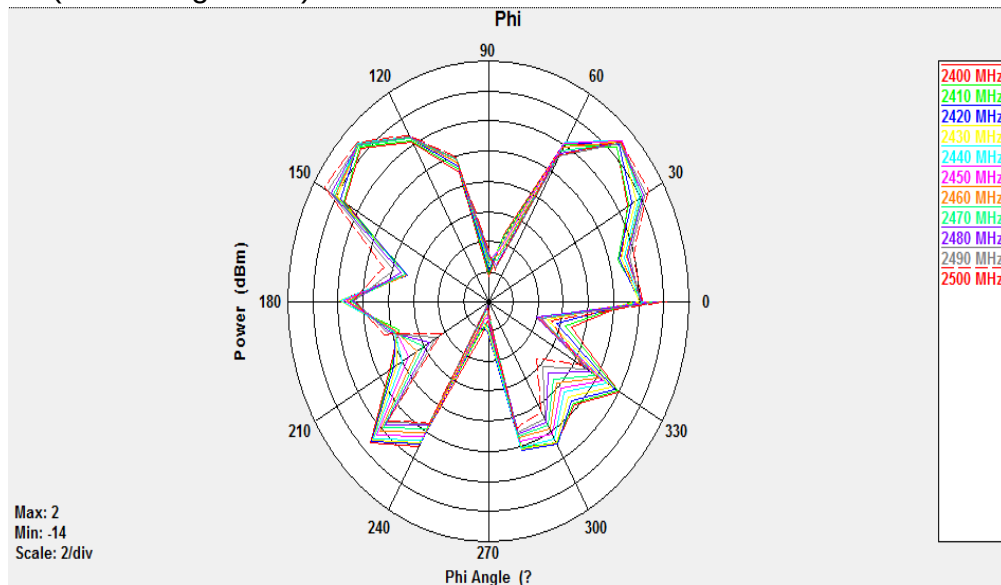
Polarization Pattern Photos

2.4GHz

Theta Polarization(Theta Angle=90°)



Phi Polarization(Theta Angle=90°)

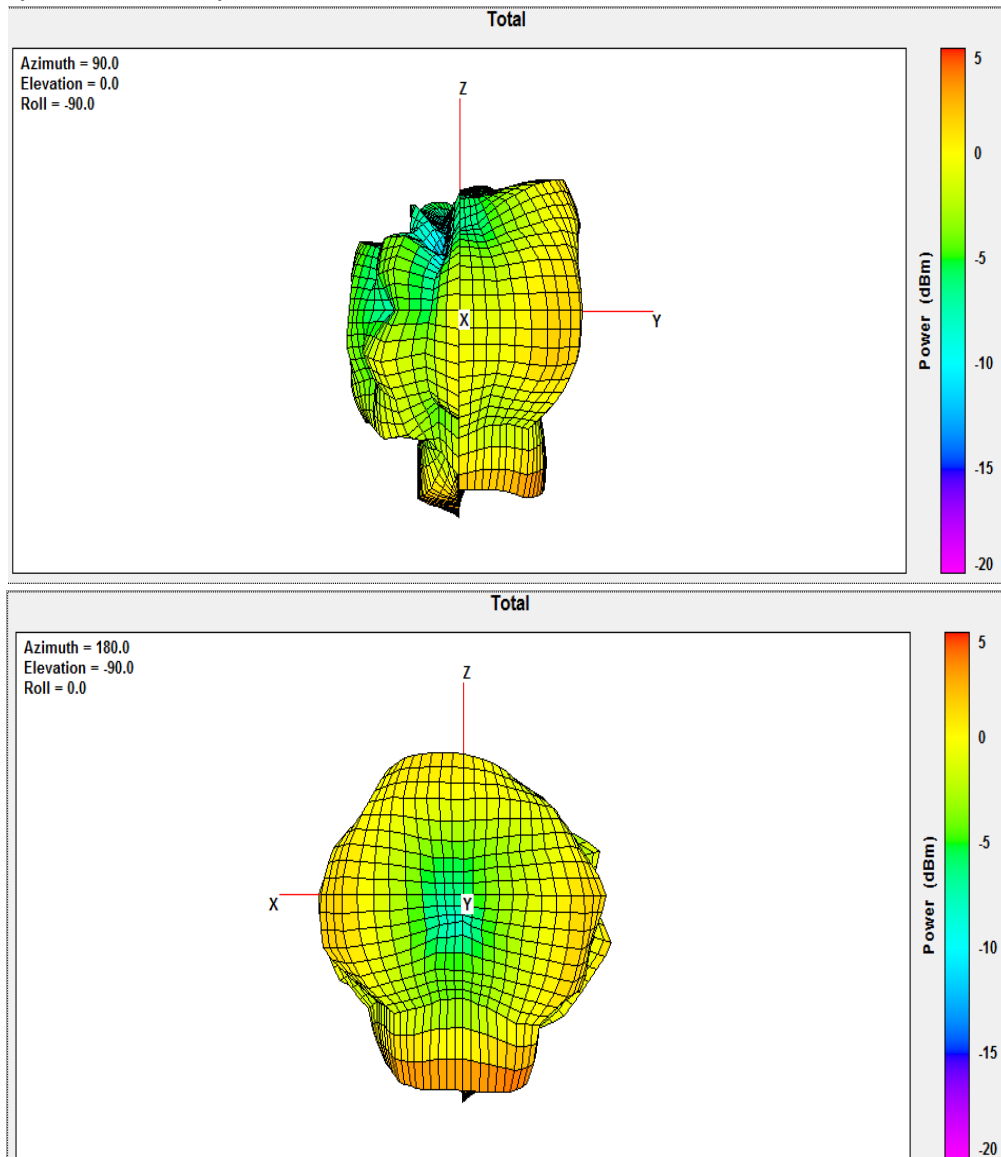


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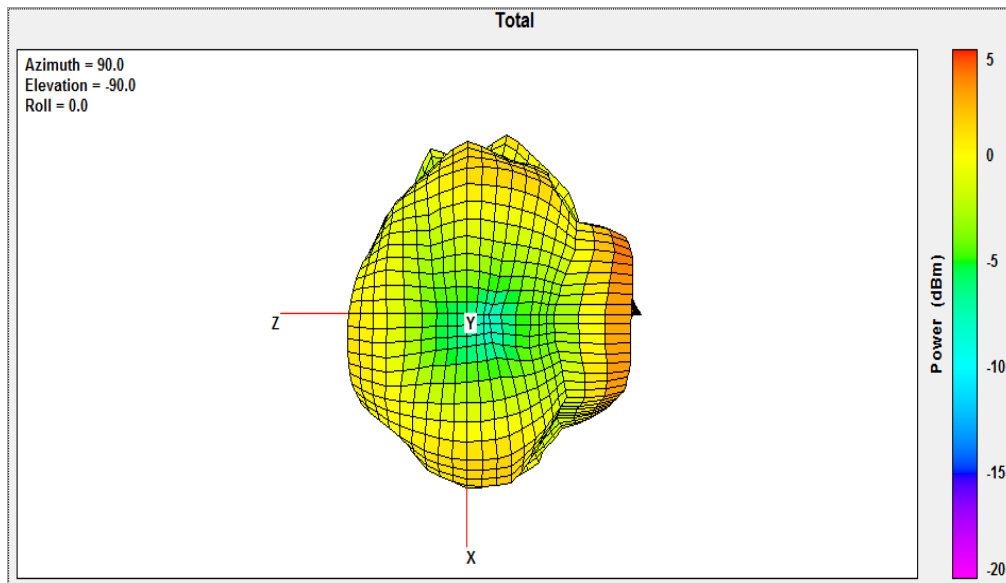


Total 3D Plot(Fre.2500MHz)



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6 Photo

Please refer to the appendix of antenna report_2.4GHz



END OF REPORT

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