
Antenna Gain Test Report

Project No.: 4791107448

Client Name: L&S Lighting Equipment (Shanghai) Co., Ltd.

Client Address: Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China

Product Name: Remote Controller

Product Model: RR-CONTROL-EASYLUX-1+4-CH

Manufacture Name: L&S Lighting Equipment (Shanghai) Co., Ltd.

Manufacture Address: Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China

Antenna Type: PCB

Antenna Size: 5.4mm*14.4mm

Project Engineer: James Qin

Test Standards: ANSI/IEEE std 149-2021

Test Date: 2023.12.26

Issued Date: 2023.12.26

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	2023.12.26	Initial Issue	\

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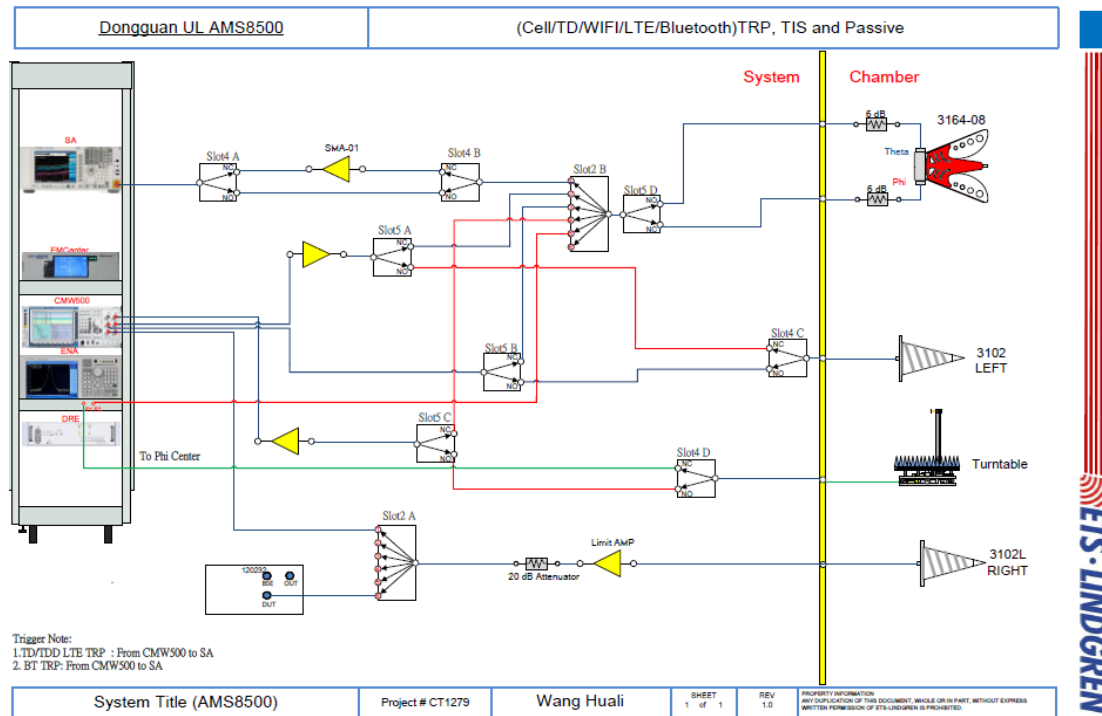
1 Test Equipment Information

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	2023.10.12	2024.10.11
EXA Singal Analyzer	Keysight	N9010A	MY55150514	2023.10.12	2024.10.11

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2 Setup block diagram



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3 Test Temperature and Humidity

Temperature: 21.5°C

Humidity: 53.6%

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

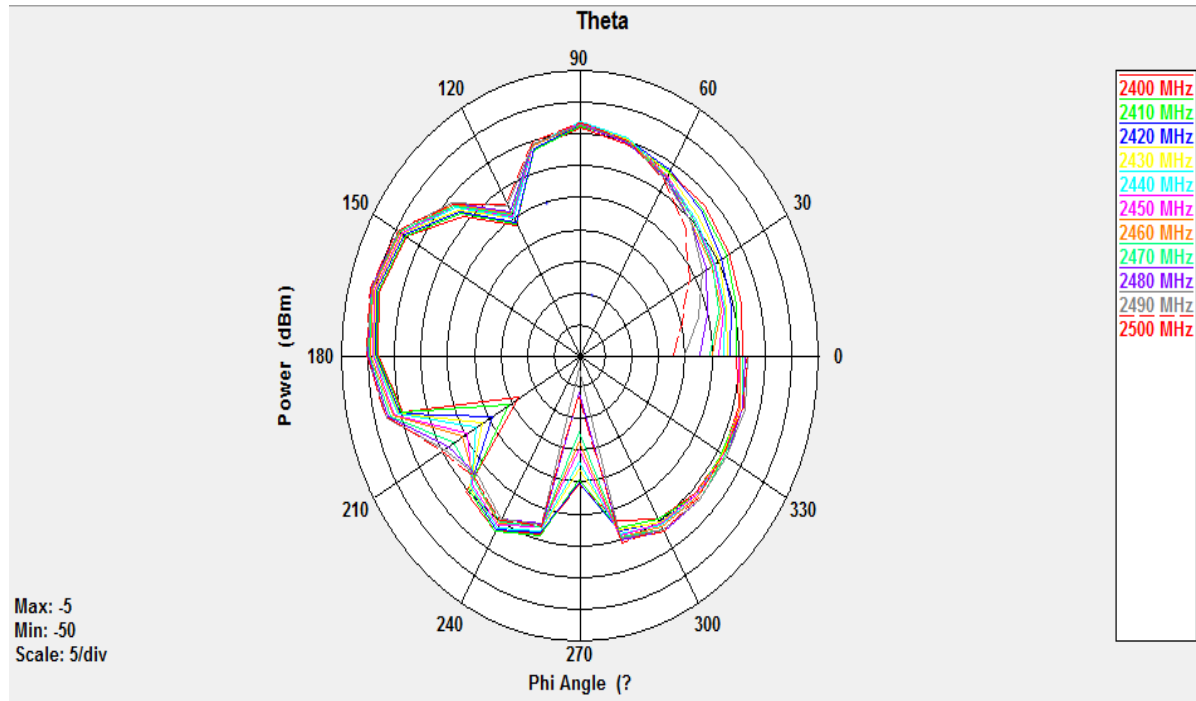
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	13.55	-2.86
2410	13.42	-2.91
2420	13.66	-2.78
2430	14.04	-2.66
2440	13.86	-2.65
2450	13.73	-2.73
2460	13.54	-2.87
2470	13.59	-2.89
2480	13.63	-3.01
2490	13.33	-3.21
2500	13.33	-3.18

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Polarization Pattern Photos

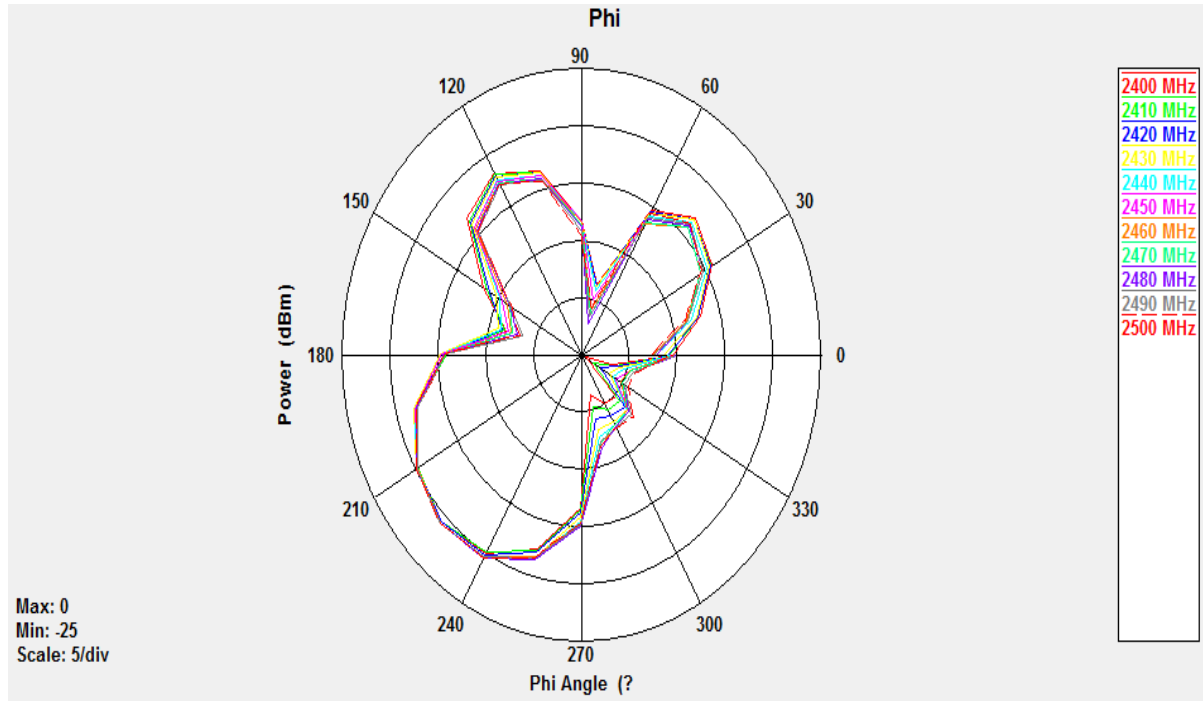
Theta Polarization(Theta Angle=90°)



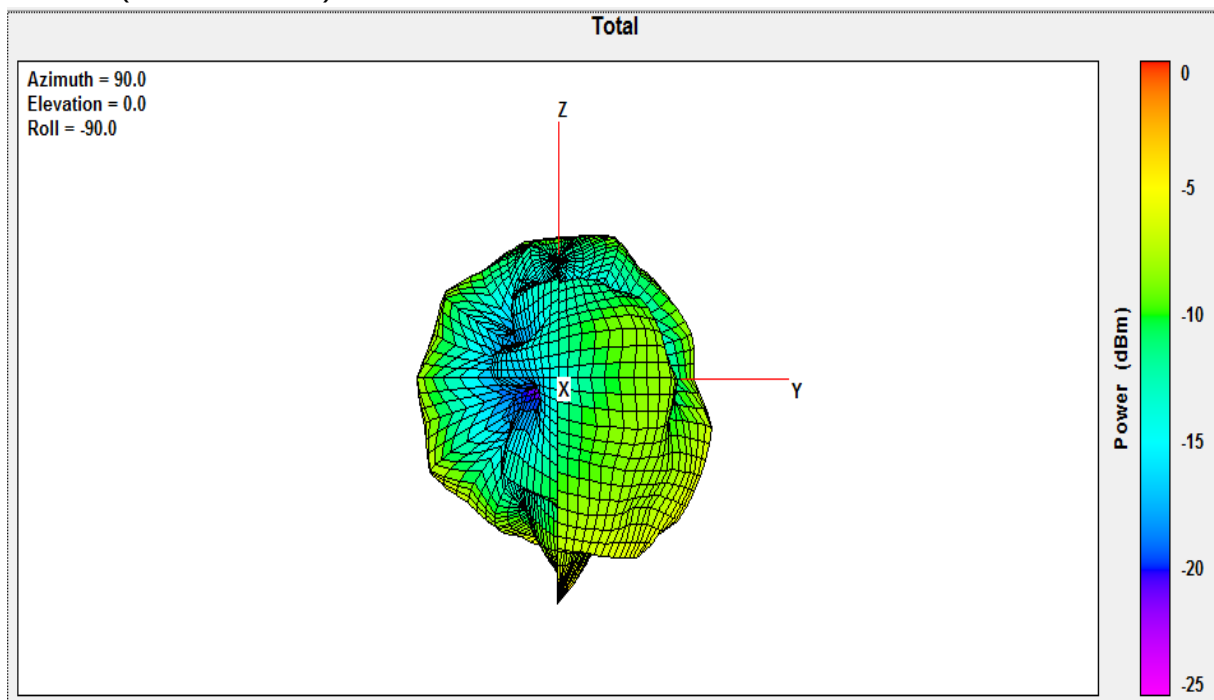
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Phi Polarization(Theta Angle=90°)

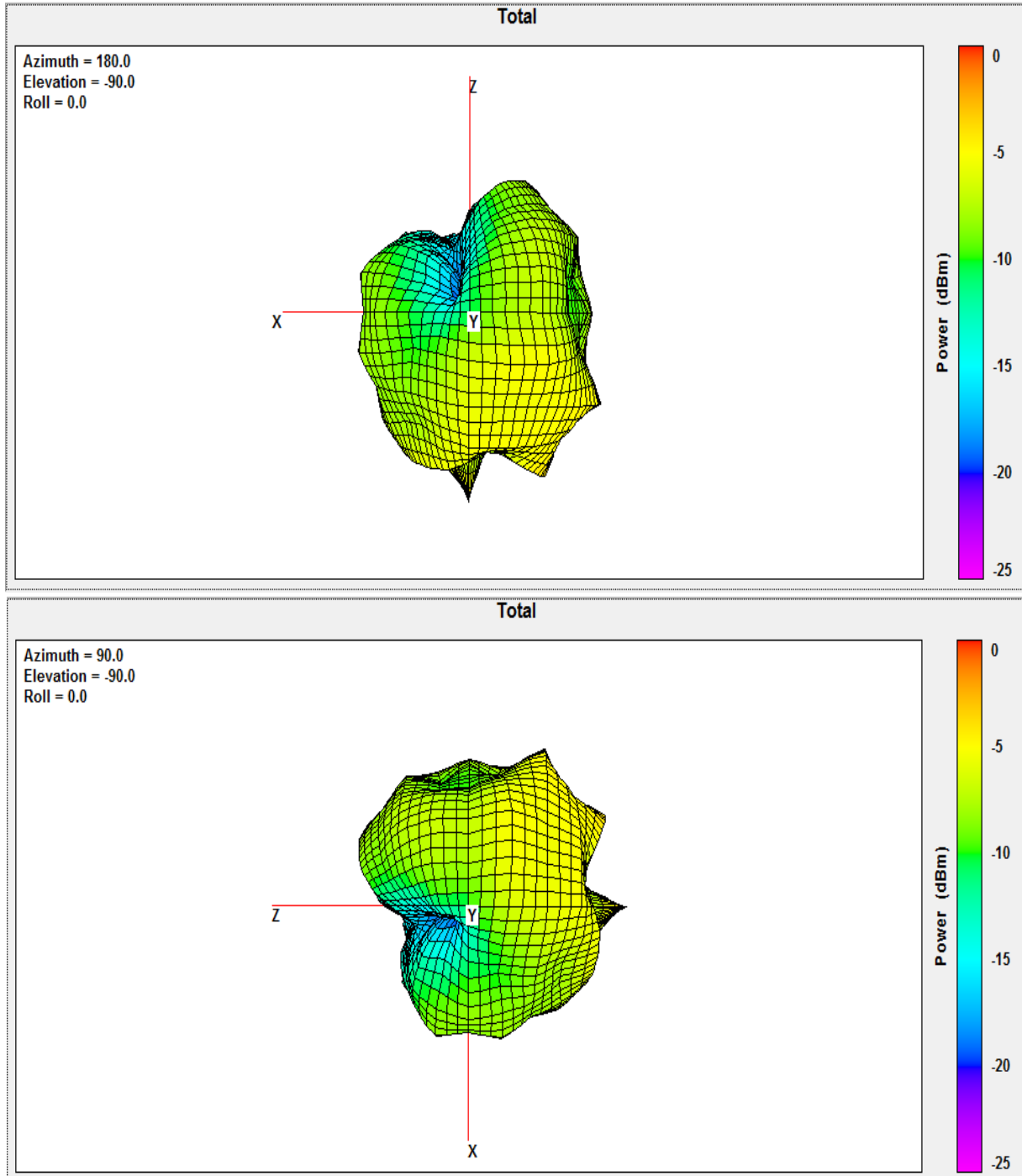


Total 3D Plot(Fre.2440MHz)



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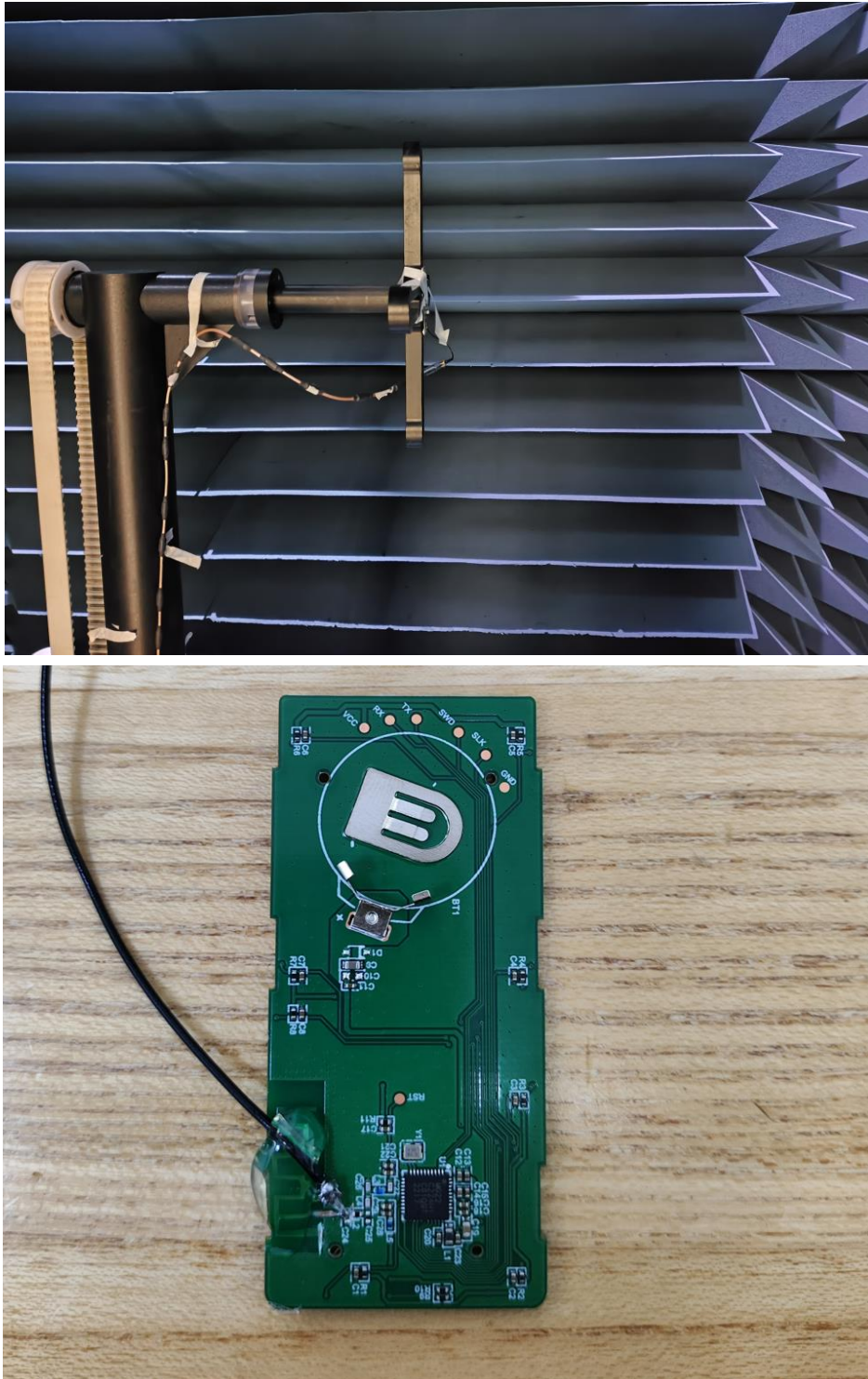
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6 Photo



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END OF REPORT

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