
Antenna Gain Test Report

Project No.: /

Client Name: 致伸科技股份有限公司

Client Address: 廣東省東莞市石碣鎮劉屋管理區科技東 135 號

Product Name: mouse

Product Model: HP simmons Dual mode

Manufacture: 致伸科技

Antenna Type: Chip

Antenna Size: /

Project Engineer: James Qin

Test Standards: ANSI/IEEE std 149-2021

Test Date: 2023.12.6

Issued Date: 2023.12.8

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	2023.12.8	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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3 Test Temperature and Humidity

Temperature: 22.2°C

Humidity: 61.3%

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.

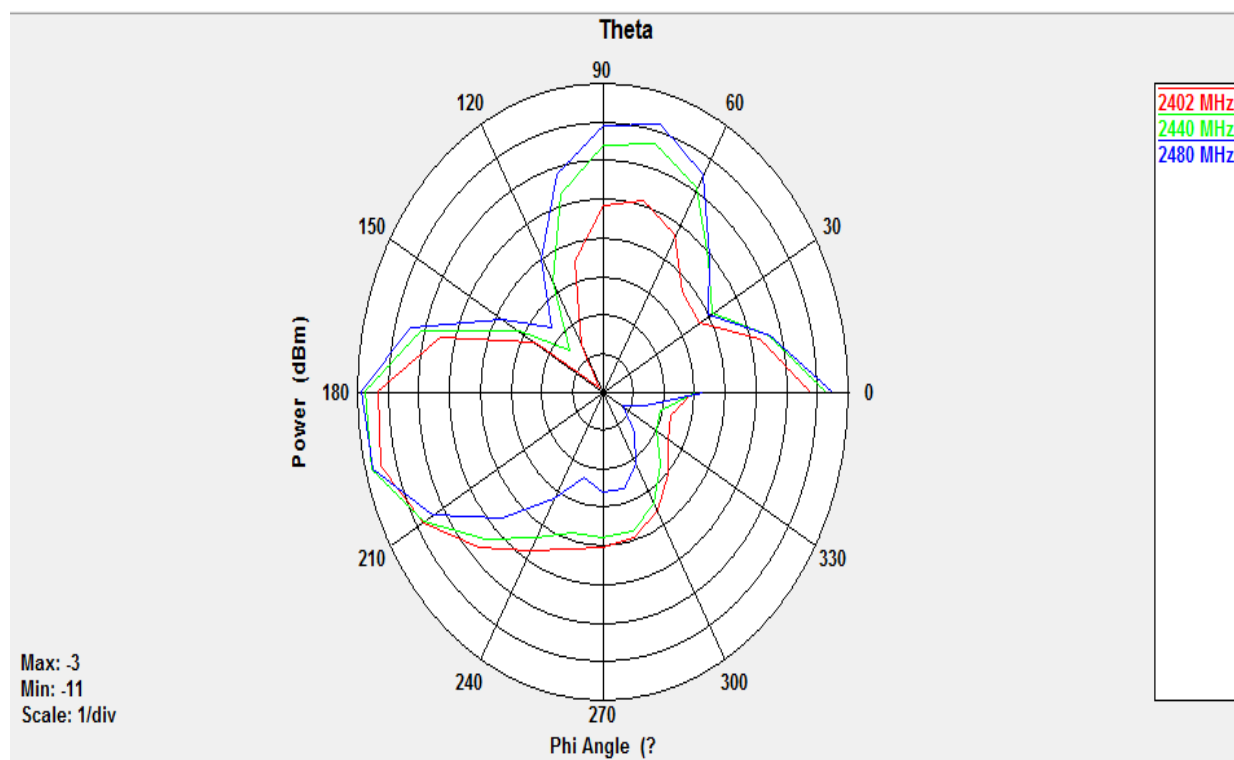
5 Test Result

1#

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2402	44.20	1.37
2440	50.81	1.85
2480	53.36	1.90

Polarization Pattern Photos

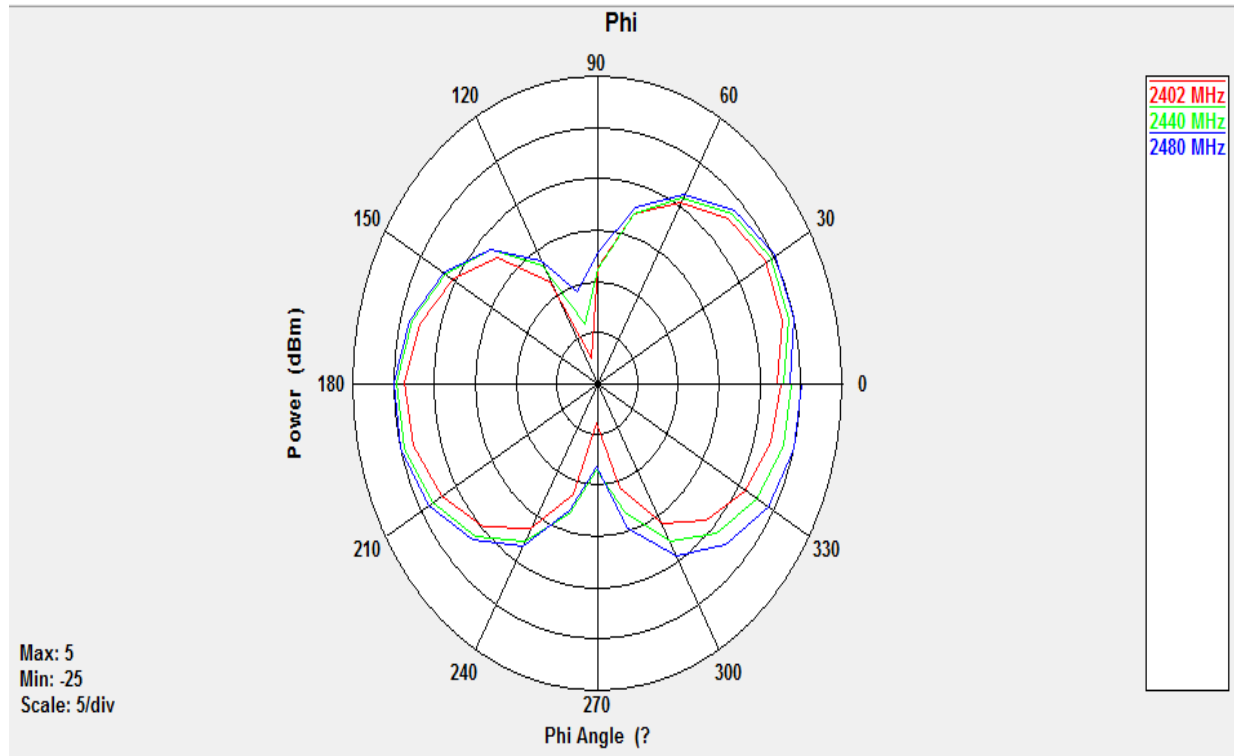
Theta Polarization(Theta Angle=90°)



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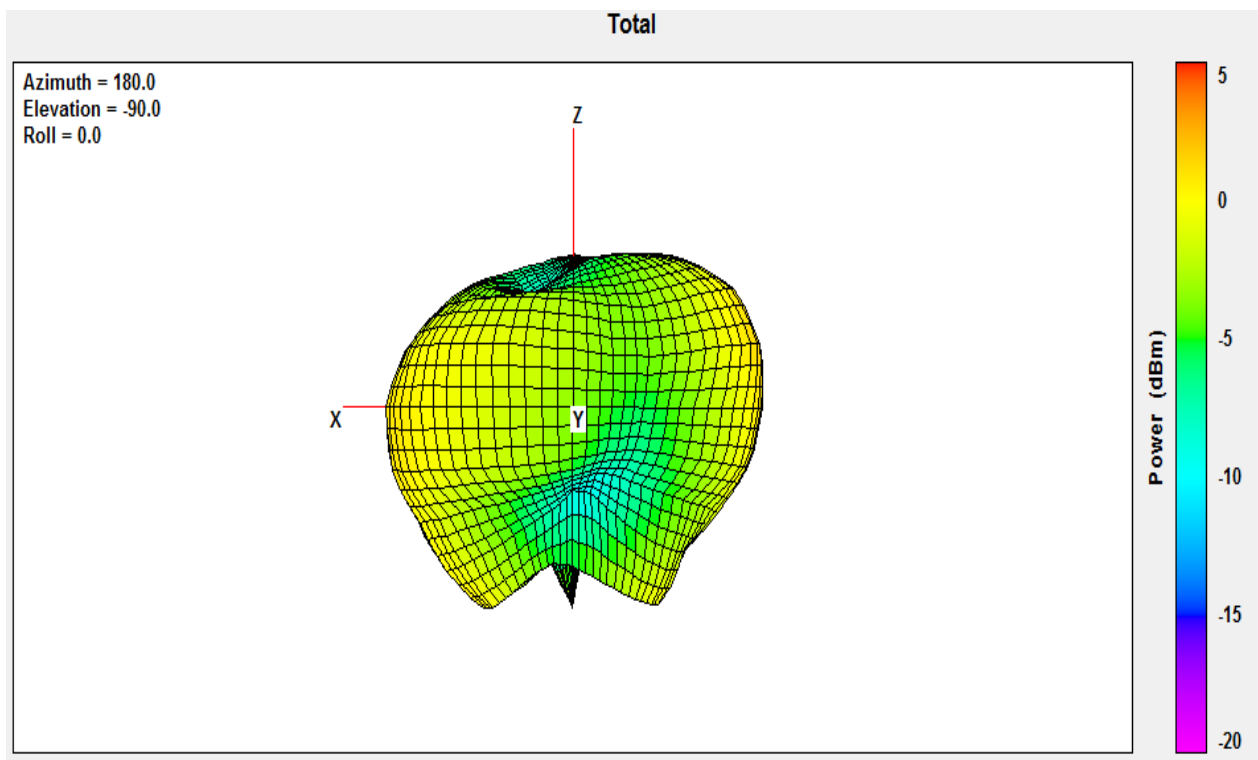
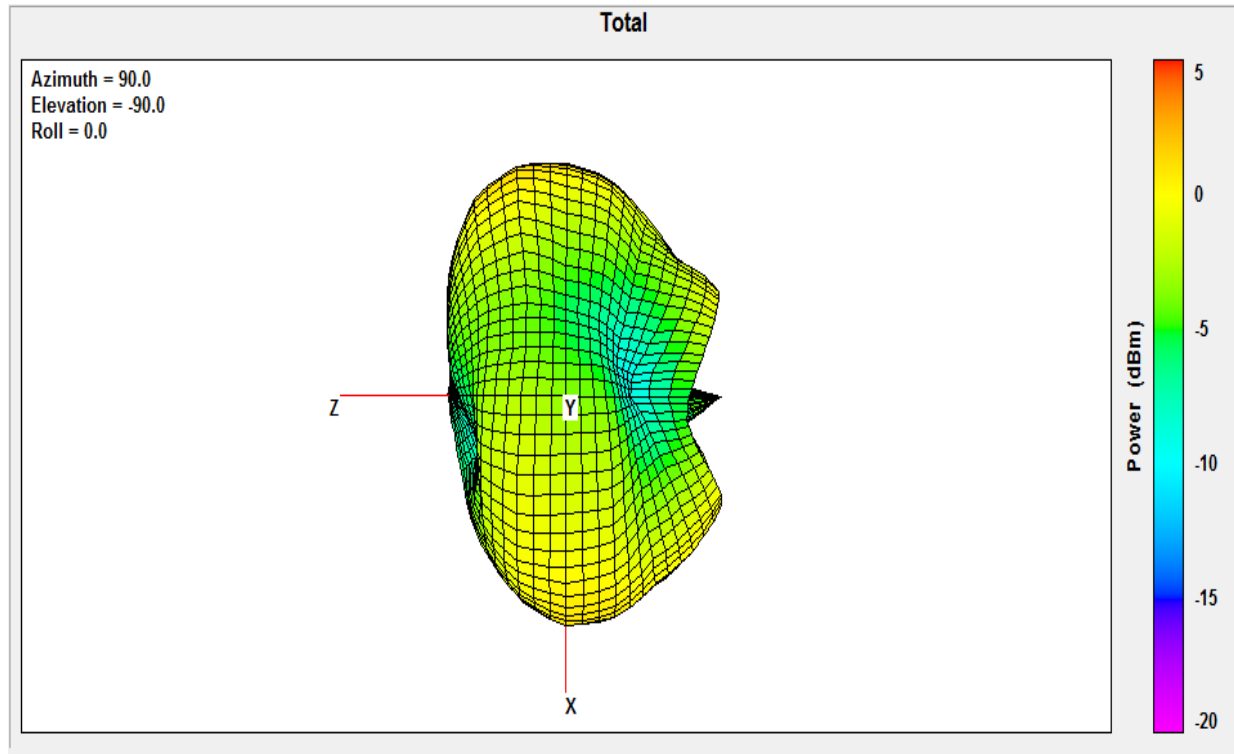
Phi Polarization(Theta Angle=90°)



Total 3D Plot(Fre.2480MHz)

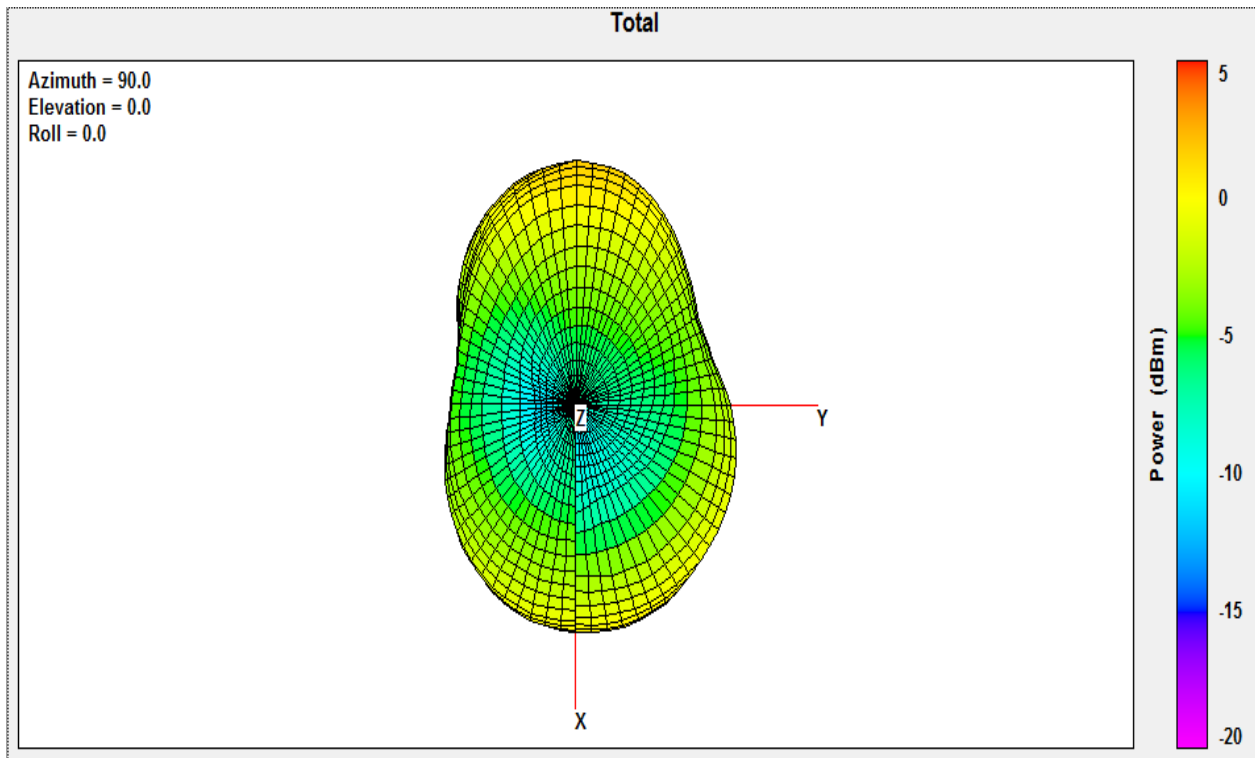
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Frequency (MHz)	Efficiency (%)	Gain (dBi)
2402	52.95	1.73
2440	56.47	1.97
2480	55.74	2.14

Polarization Pattern Photos

Theta Polarization(Theta Angle=90°)

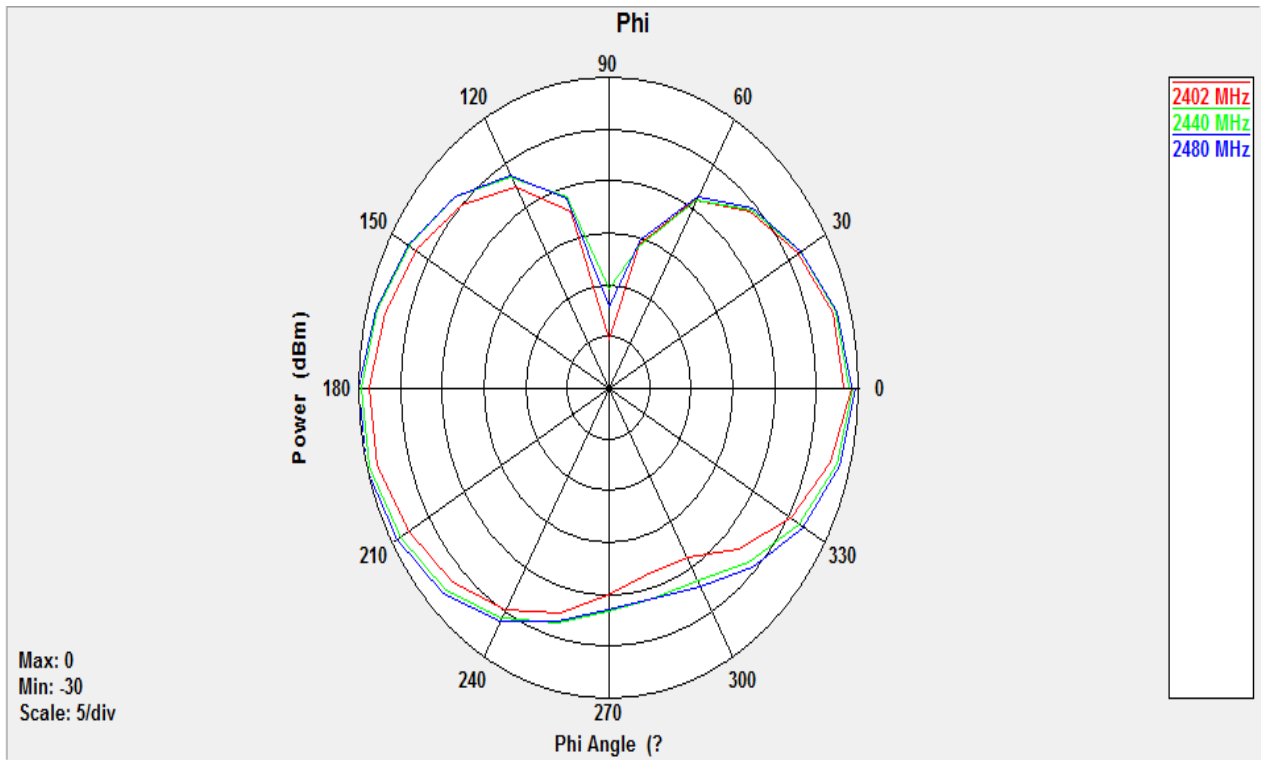


Phi Polarization(Theta Angle=90°)

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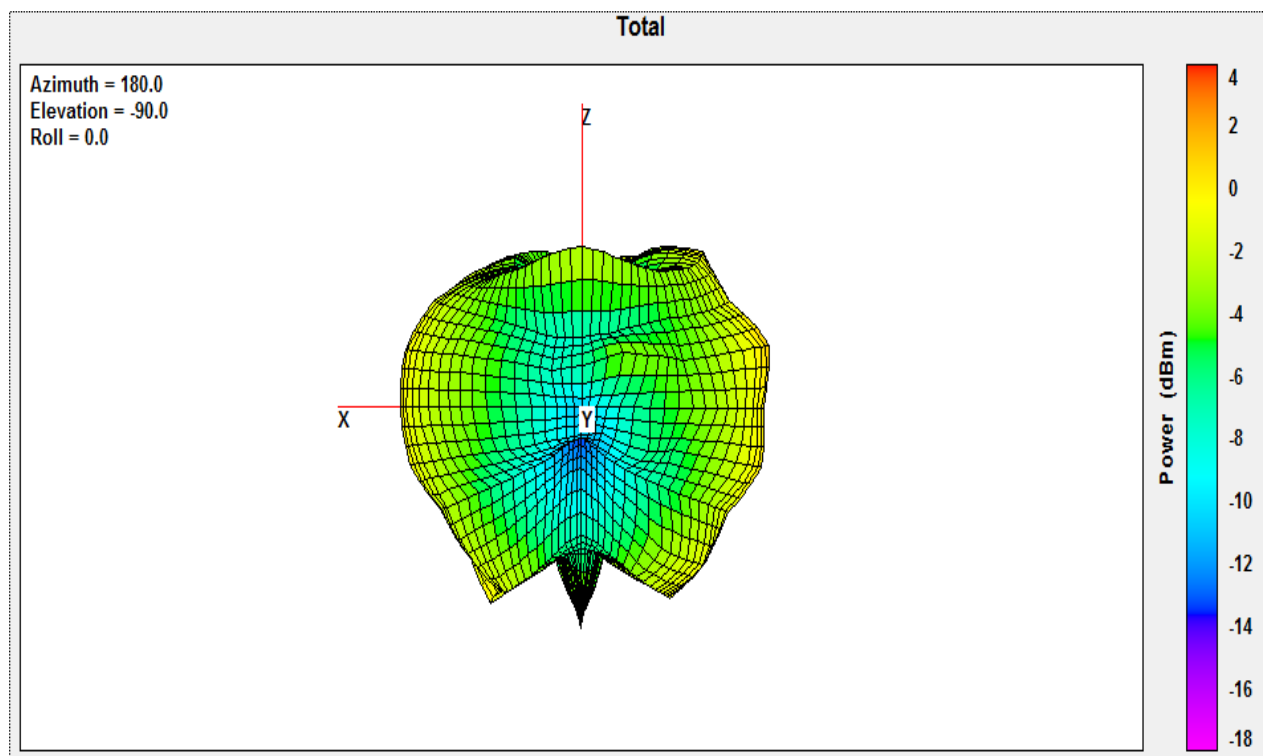
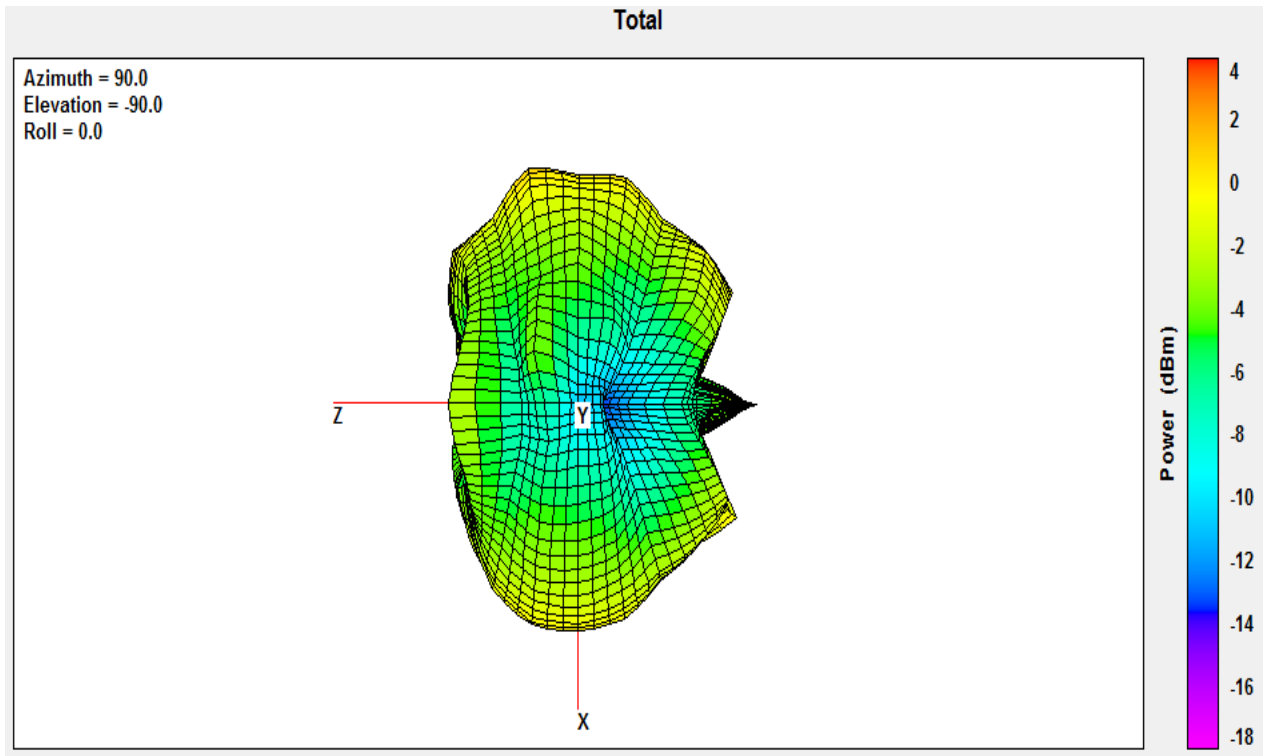
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Total 3D Plot(Fre.2480MHz)

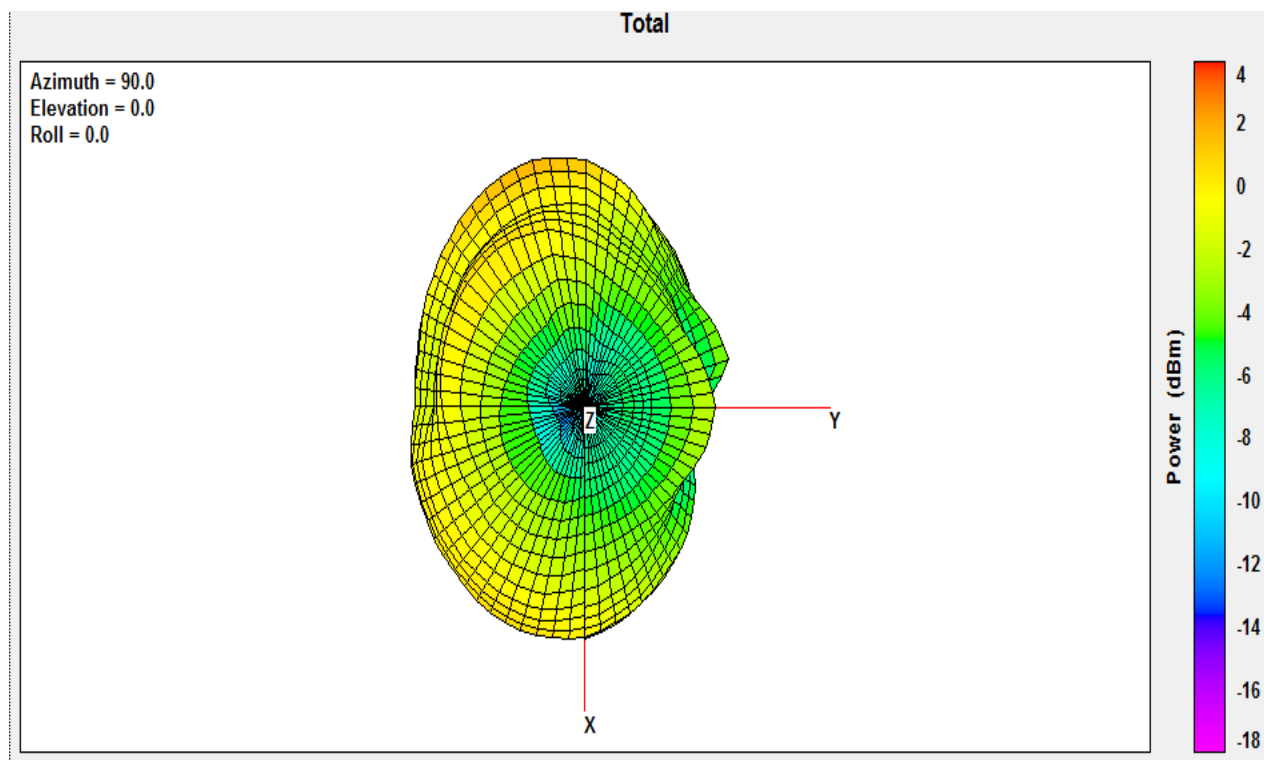
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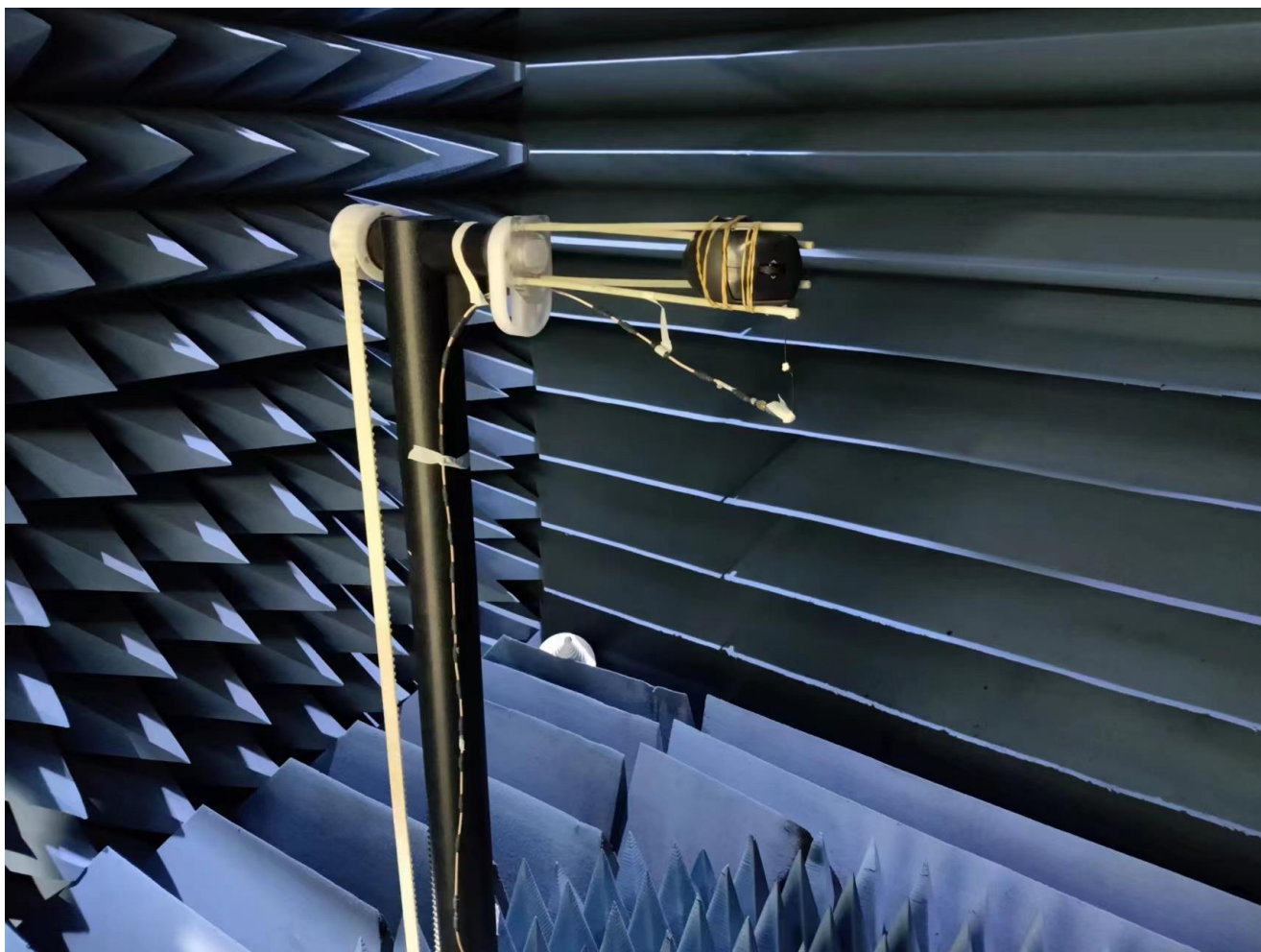


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6 Photo

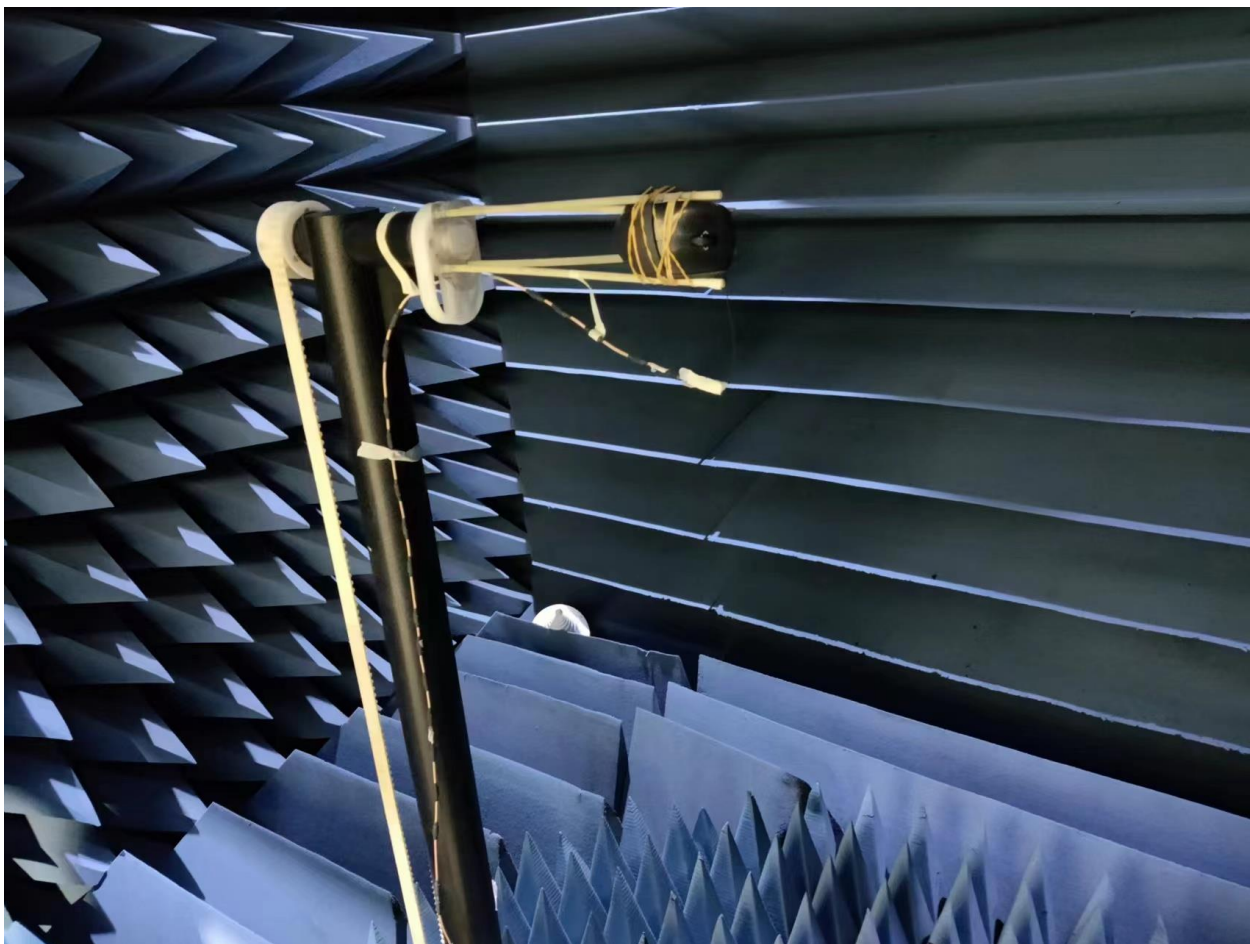
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END OF REPORT

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