

Antenna Gain Test Report

Project No.: 4790794042

Client Name: SHENZHEN MIZIT TECHNOLOGY CO.,LTD

Client Address: A313 Mingyue Huadu, Gonghe Industrial Road, Gongle

Community, Xixiang Street, Bao'an District, Shenzhen

Product Name: PCB Antenna

Product Model: /

Manufacture: SHENZHEN MIZIT TECHNOLOGY CO.,LTD

Antenna Type: PCB

Antenna Size: 2mm*5mm

Project Engineer: James Qin

Test Engineer: Burt Hu

Test Standards: ANSI/IEEE std 149-2021

Date of Tested: 2023.5.19

Issued Date: 2023.5.19

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

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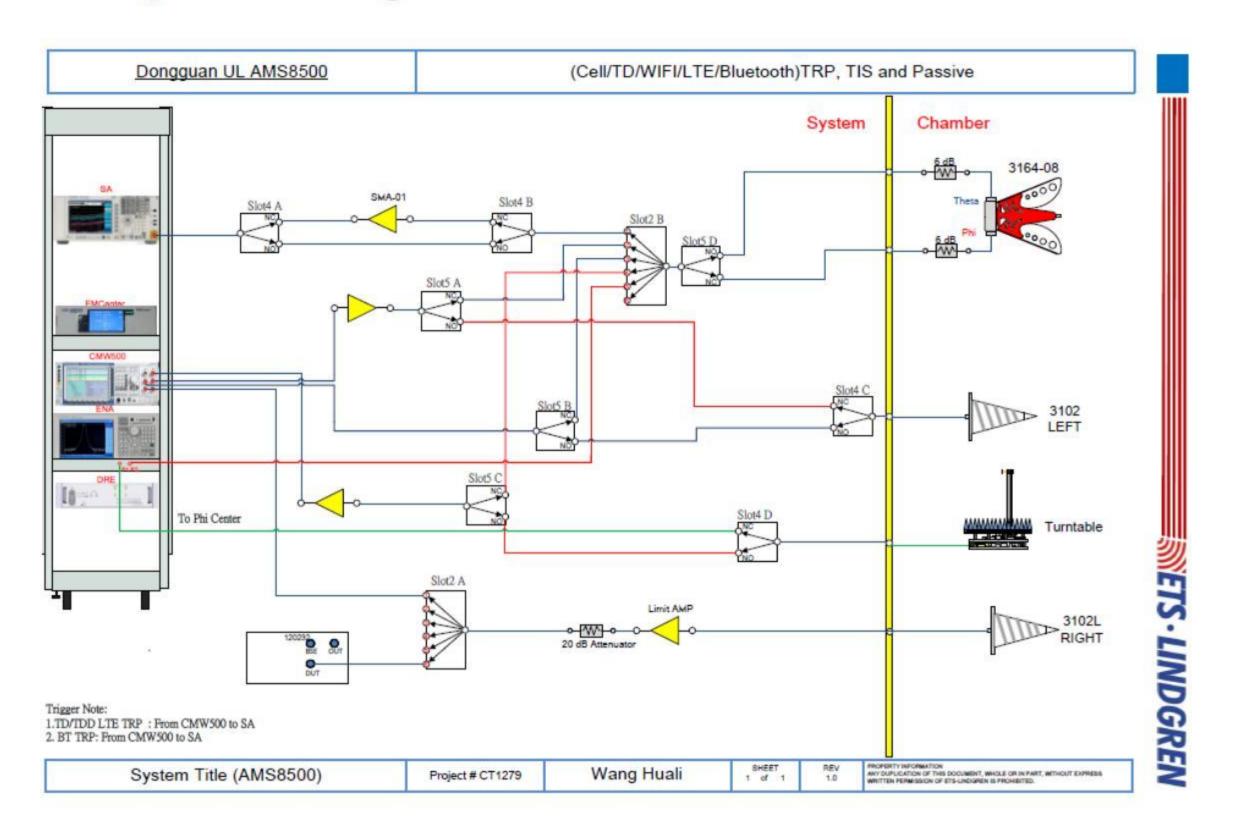
Song Shan Lake Branch.



1 Test Equipment Information

Equipment	Manufacturer	Mode No.	Serial No.	Cal date	Cal Due
Test	ETS-Lindgren	8500	1	1	1
Chamber	L TO Lindgich	0000			
Test	ETS-Lindgren	EMQuest	1496		,
Software	L 13-Linugien	V1.12	1490	1	1
Network	Vovoight	E5071C	MVAGEDAEDA	2022 10 17	2023.10.16
Analyzer	Keysight	E5071C	MY46524531	2022.10.17	2023.10.10
EXA Singal	Vovoight	N10010A	NAVEE 1 FOE 1 4	2022 10 17	2022 10 16
Analyzer	Keysight	N9010A	MY55150514	2022.10.17	2023.10.16

2 Setup block diagram





3 Test Temperature and Humidity

Temperature: 23.1°C

Humidity: 63.3%

4 Test Step Flow

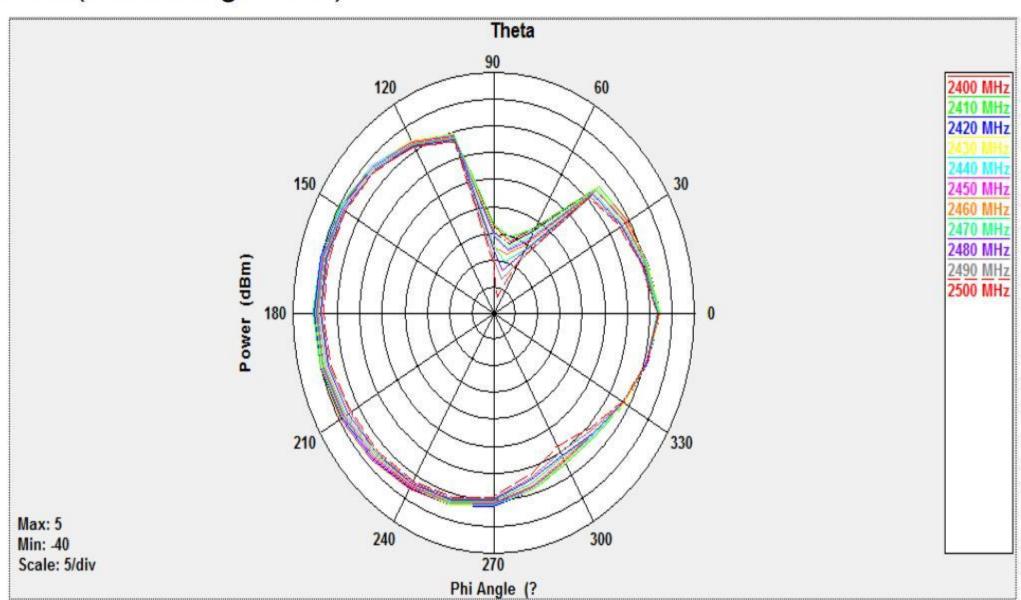
- 1) Maintain the test ambient temperature of 23±2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration 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

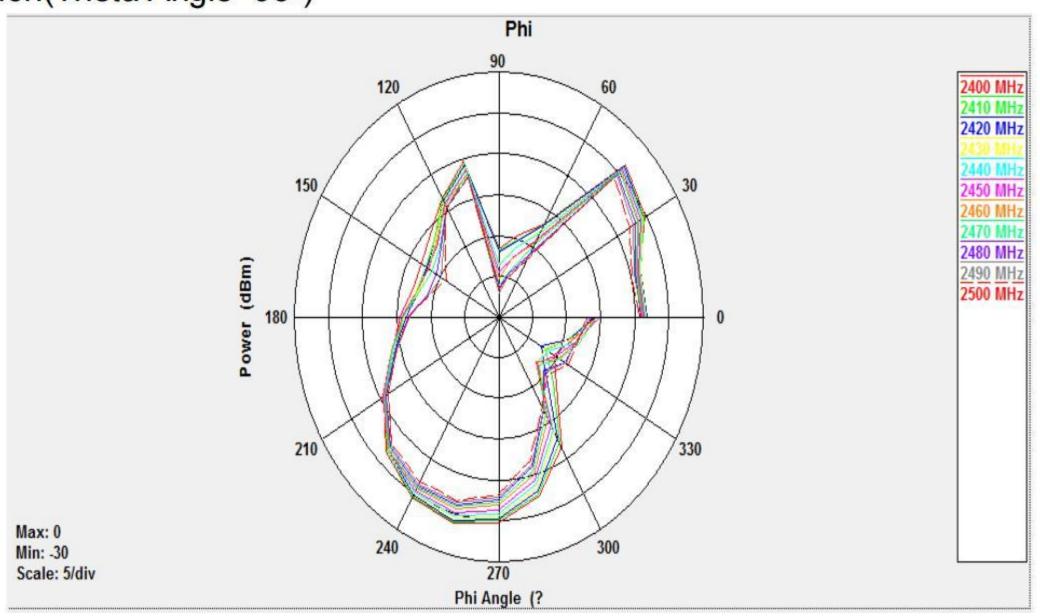
Frequency (MHz)	Efficiency (%)	Gain (dBi)	
2400	55.66	2.03	
2410	55.31	2.07	
2420	55.02	2.06	
2430	53.93	2.02	
2440	52.48	1.90	
2450	50.26	1.64	
2460	47.68	1.38	
2470	44.96	1.10	
2480	42.68	0.82	
2490	40.83	0.63	
2500	39.16	0.41	



Polarization Pattern Photos Theta Polarization(Theta Angle=90°)

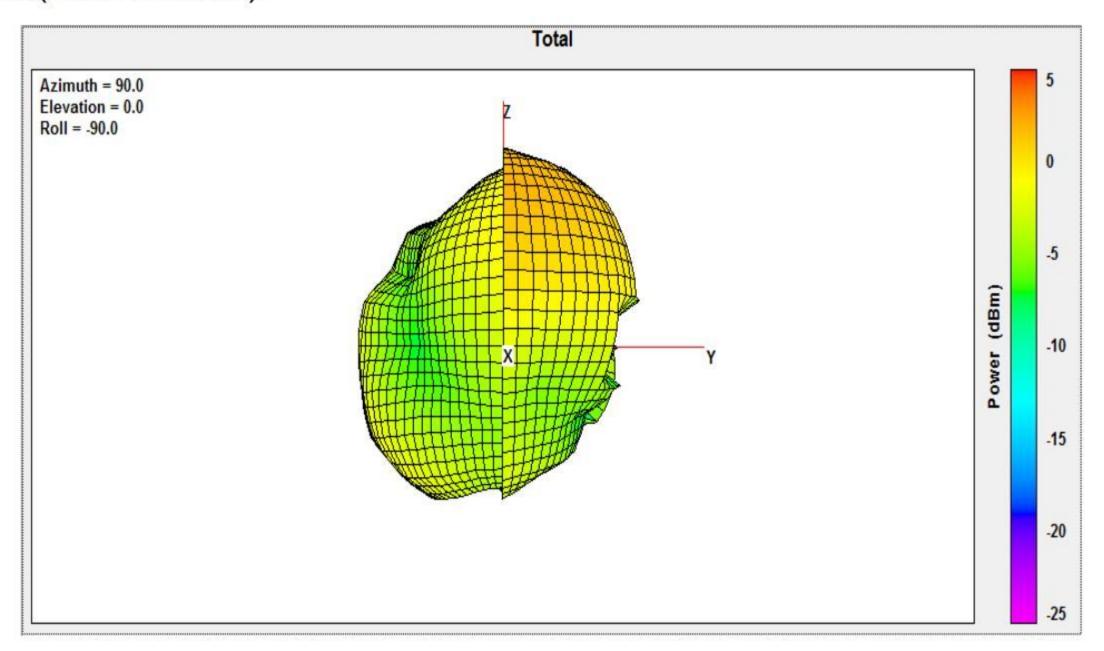


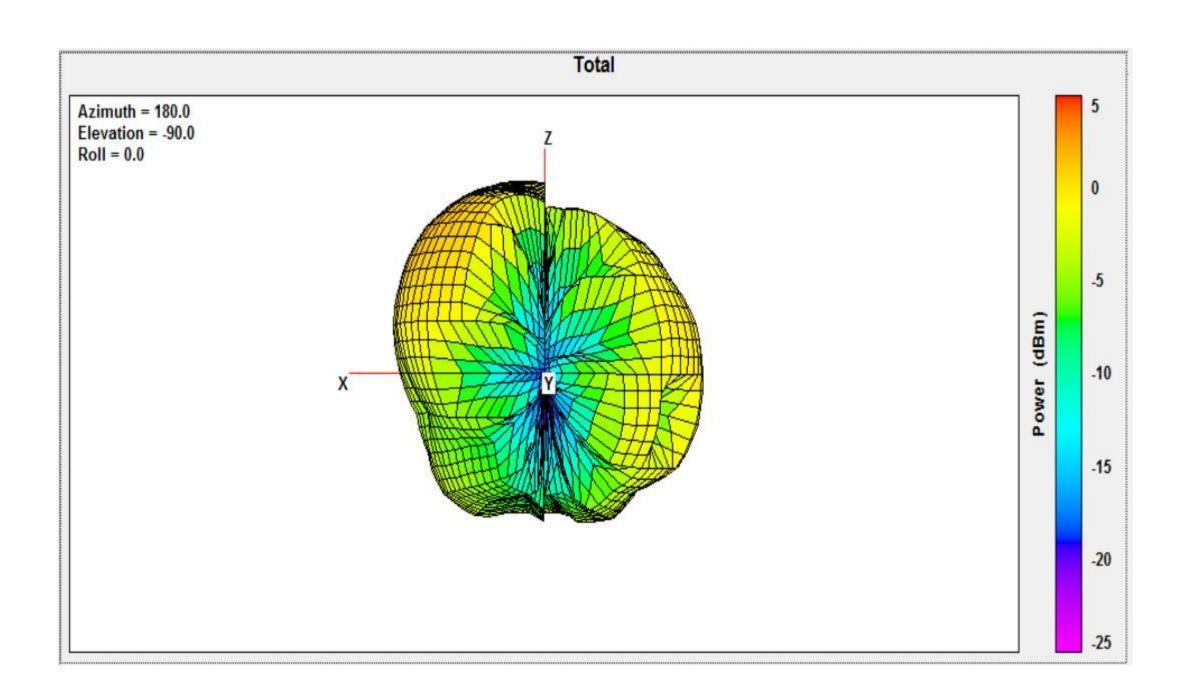
Phi Polarization(Theta Angle=90°)



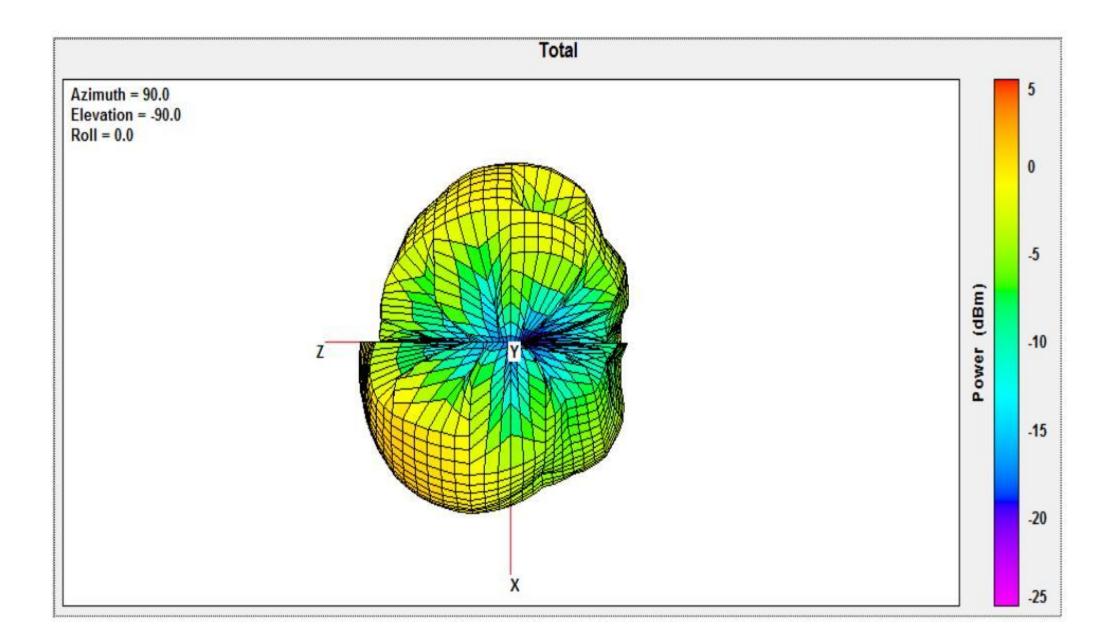


Total 3D Plot(Fre.2410MHz)





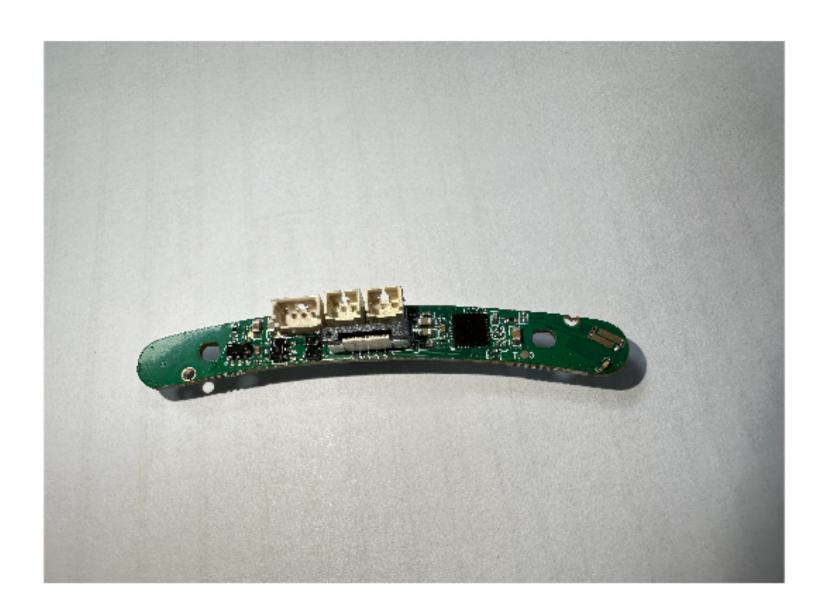


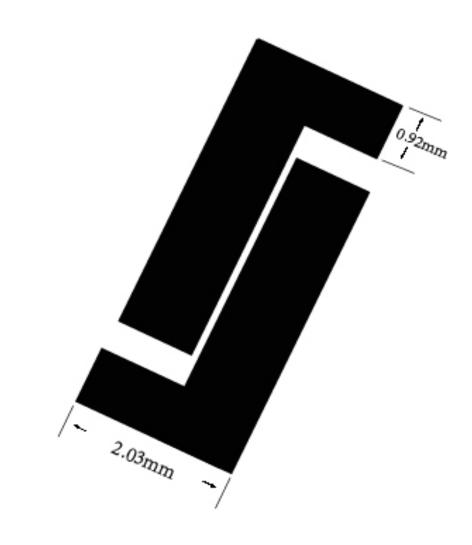


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6 Photo





END OF REPORT

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