

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:	1		
Manufacture:	SHENZHEN MIZIT TECHNOLOGY CO.,LTD		
Antenna Type:	PCB		
Antenna Size:	9.8 mm * 4.5 mm		
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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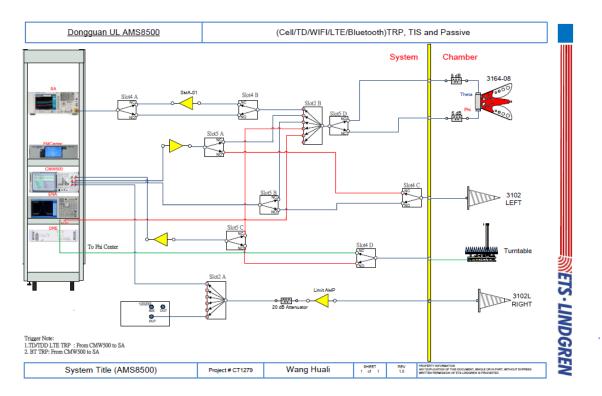
Song Shan Lake Branch.



Equipment	Manufacturer	Mode No.	Serial No.	Cal date	Cal Due
Test	ETS-Lindgren	8500	/	/	/
Chamber	ETS-Lindgren	8300			
Test	ETS Lindaron	EMQuest	1496	1	1
Software	ETS-Lindgren	V1.12	1490	1	/
Network	Kovoight	E5071C	MY46524531	2022.10.17	2023.10.16
Analyzer	Keysight	E3071C	IVI 14052455 I	2022.10.17	2023.10.10
EXA Singal	Kovoight	N9010A	MY55150514	2022.10.17	2023.10.16
Analyzer	Keysight	N90TUA	MT55150514	2022.10.17	2023.10.16

1 Test Equipment Information

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;

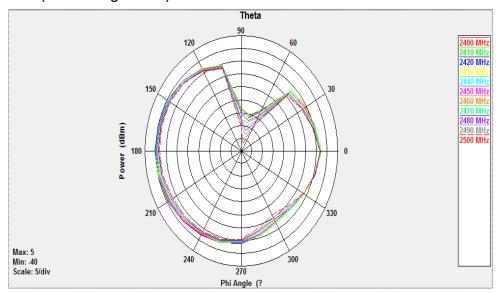
4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

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	

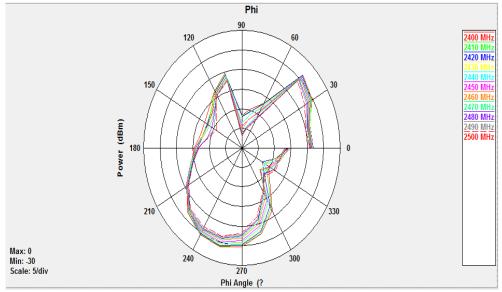
5 Test Result

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

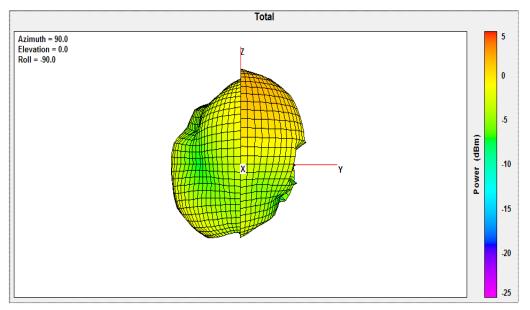


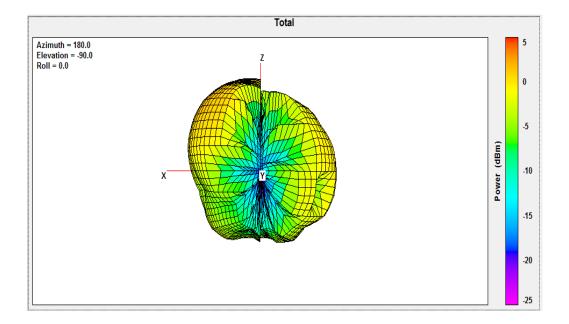
Phi Polarization(Theta Angle=90°)



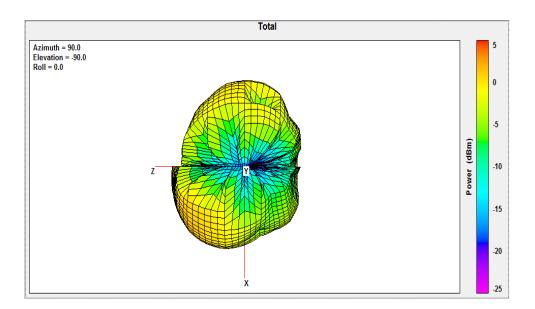
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Total 3D Plot(Fre.2410MHz)





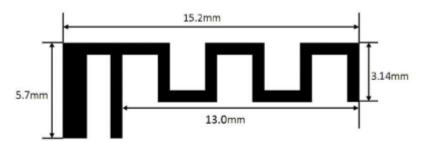






6 Photo





END OF REPORT