

No.:
WTSSZ2024-0042-E

TEST REPORT

NAME OF SAMPLE : PCB Antenna

CLIENT : OPSMEN TECH Co., Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.





Client		Name : OPSMEN TECH Co., Ltd.	
		Address : Rom 601,Building A, No. 94, Liwan Road, Liwan District,Guangzhou City,Guangdong Province, China	
Manufacturer		Name : OPSMEN TECH Co., Ltd.	
		Address : Rom 601,Building A, No. 94, Liwan Road, Liwan District,Guangzhou City,Guangdong Province, China	
Equipment Under Test		Name : PCB Antenna	
		Model/Type:C30 ANT	
		Additional Model: N/A	
		Trade mark : N/A	
		Serial NO.:N/A	
		Sample NO.: 1-1	
Date of Receipt.	2024.01.19	Date of Testing	2024.01.19~2024.01.25
Test Specification		Test Result	
ANSI/IEEE Std 149-1979 IEEE Standard Test Procedures for Antennas		N/A	
Evaluation of Test Result	The Gain,Efficiency and Radiation Pattern of PCB Antenna had been tested and the test results were shown on pages 8 to 19.		
Seal of CVC Issue Date: 2024.01.25 检验检测专用章			
Tested by: <u>Cai Jianyu</u> Name Signature	Reviewed by: <u>Huang Meng</u> Name Signature	Approved by: <u>Dong Sanbi</u> Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
WTSSZ2024-0042-E	Original release	2024.01.25



1. SUMMARY OF TEST RESULTS

Test Item	Result
Gain(Peak Gain)	0.31 dBi



2. GENERAL INFORMATION

2.1 General Product Information

PRODUCT	PCB Antenna
BRAND	N/A
TEST MODEL	C30 ANT
ADDITIONAL MODEL	N/A
ANTENNA TYPE	PCB Antenna
FREQUENCY RANGE	2400MHz~2500 MHz
ANTENNA DIMENSIONS	14.5mm × 5.5mm
Remark: - For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. - Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2.2 Test Condition

ENVIRONMENT PARAMETER	Ambient Pressure (KPa)	Temperature (°C)	Voltage	Relative Humidity (%)
NORMAL TEMPERATURE,NORMAL VOLTAGE	101	22.7	N/A	54.2

2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Item	Uncertainty
Gain	$\pm 0.8\text{dB}$

2.4 Test Location

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address:No. 1301, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen City, Guangdong Province 518110 P.R.China

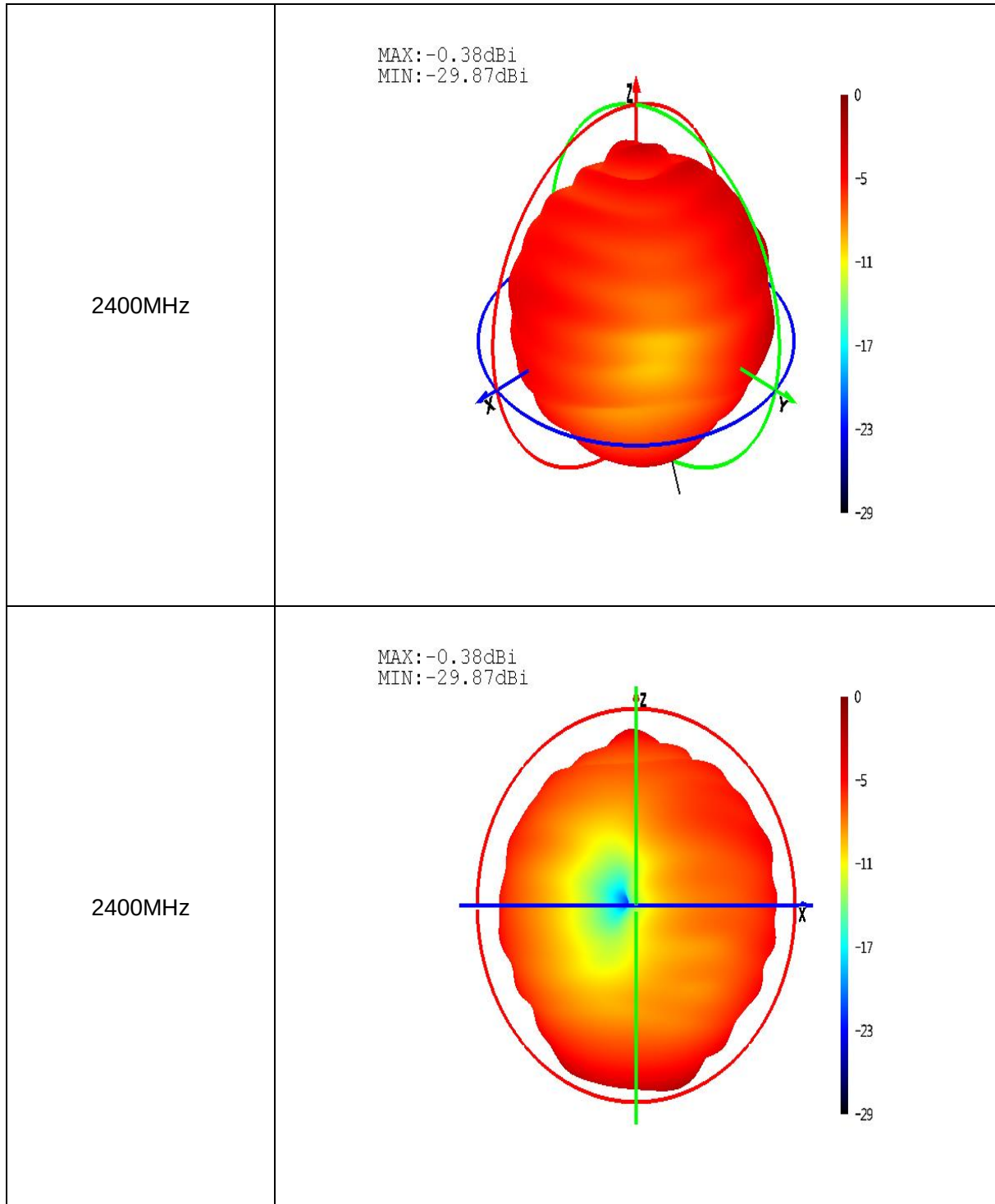
Post Code: 518110 Tel: 0755-23763060-8805
Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn
<http://www.cvc.org.cn>

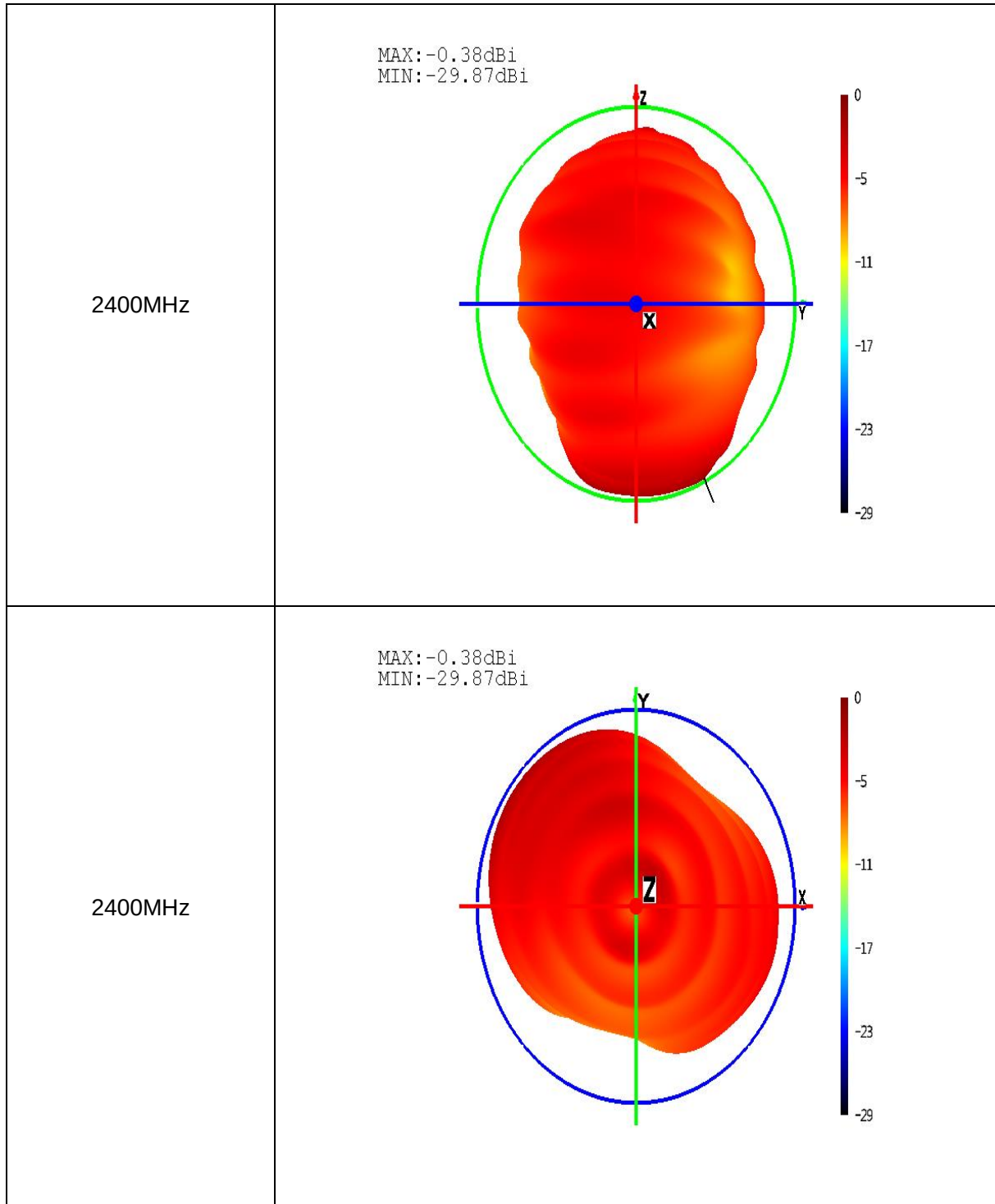


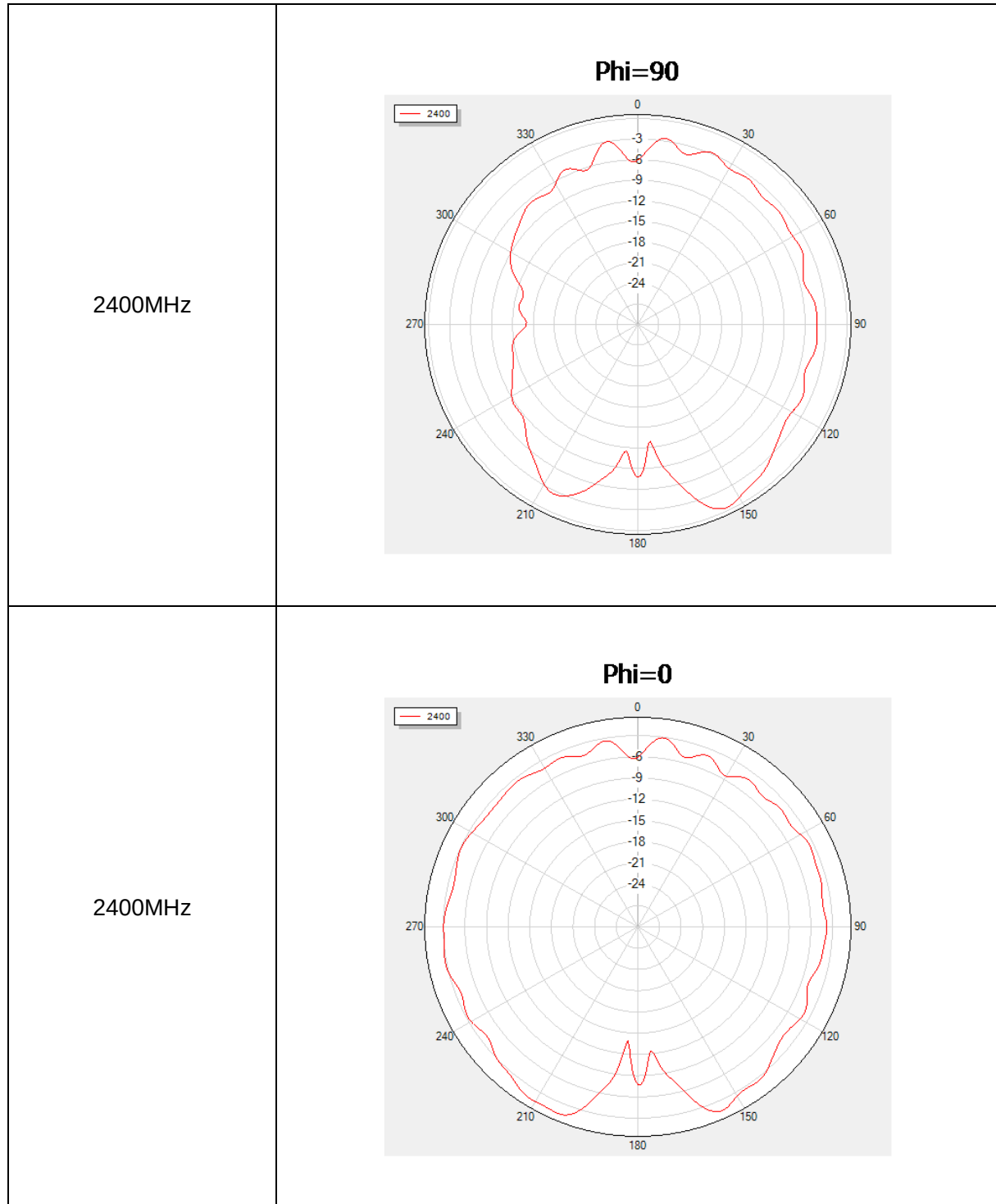
3. ANTENNA GAIN EFFICIENCY AND RADIATION PATTERN

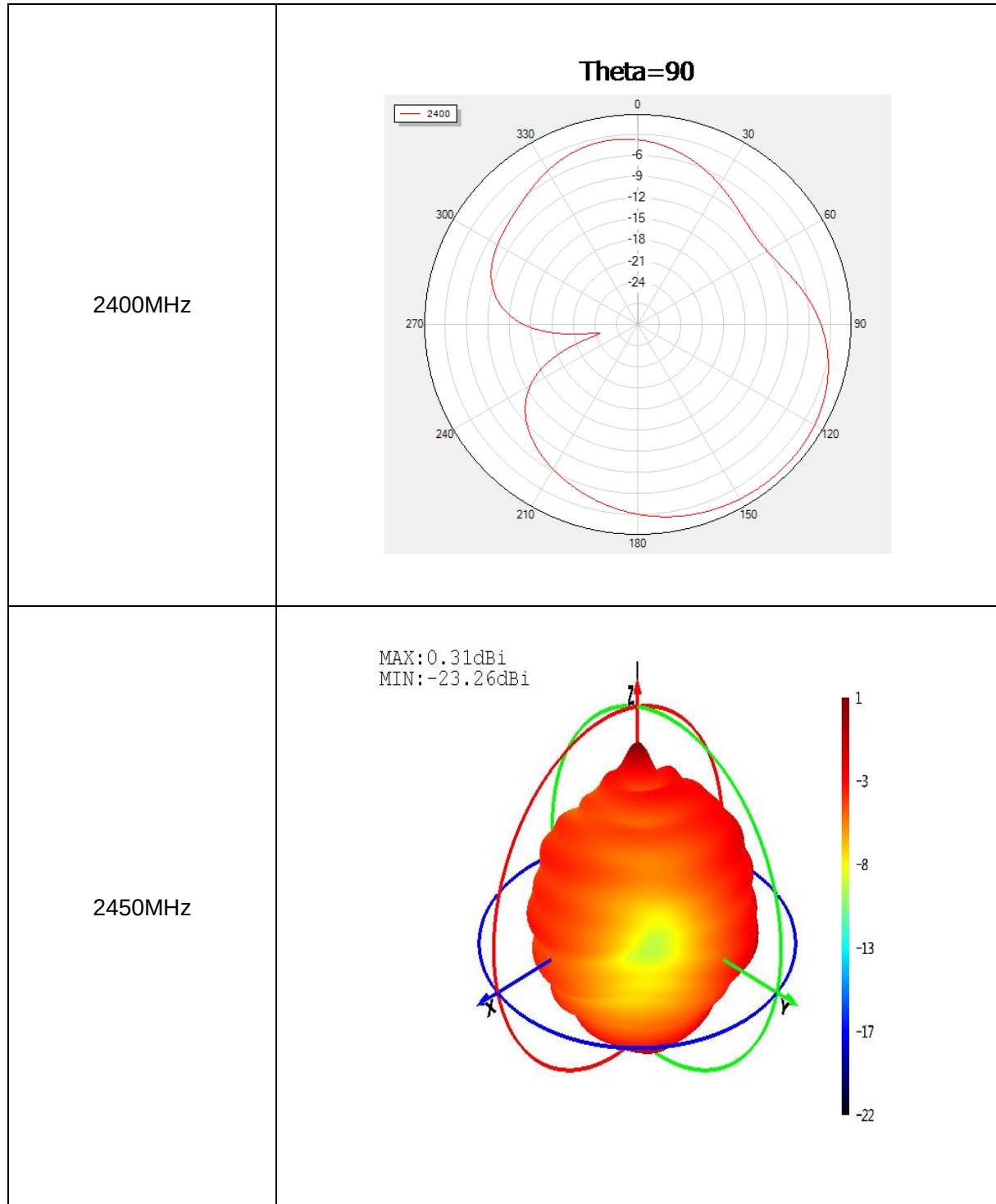
3.1 Test Results

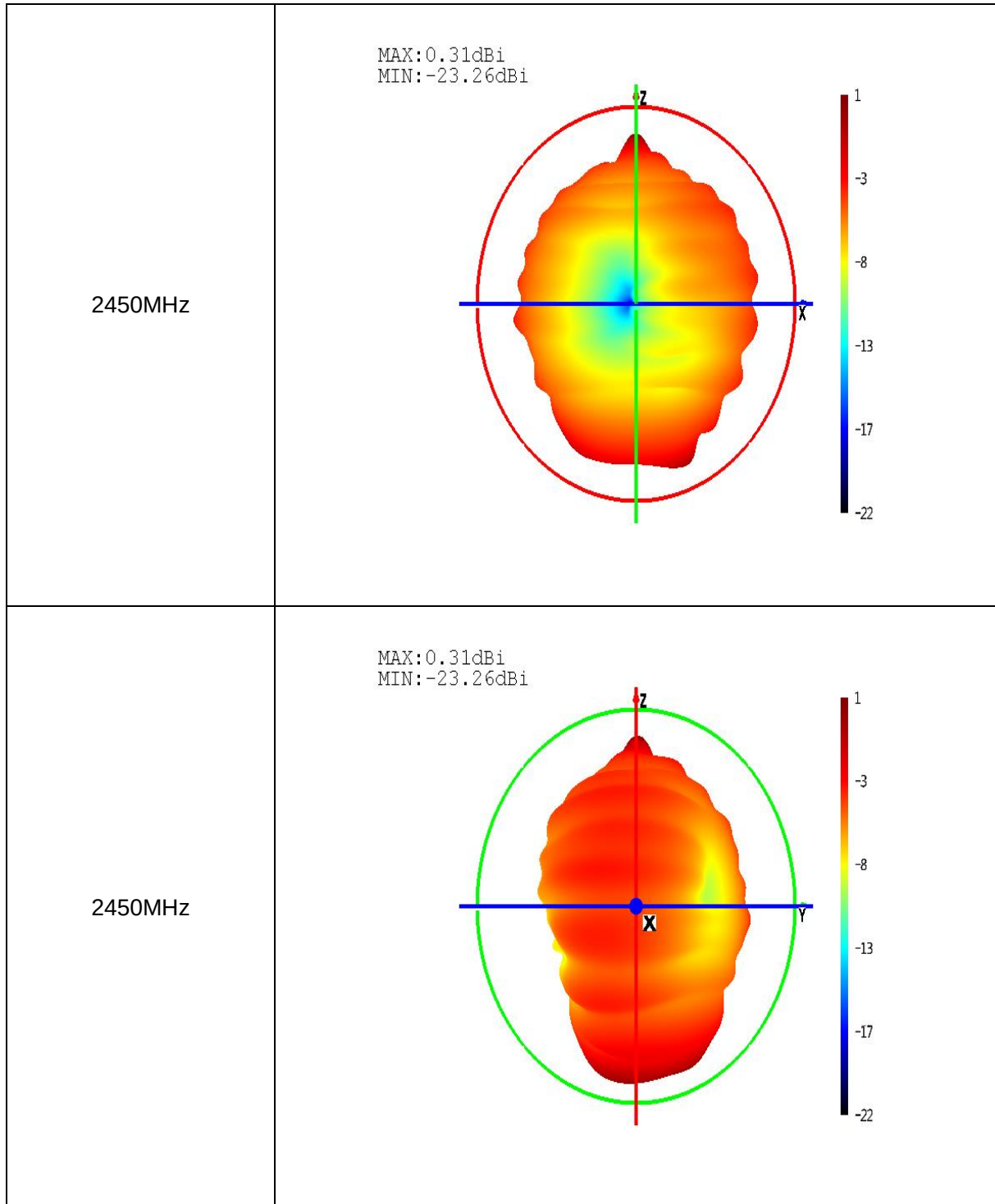
Test Model	C30 ANT	
Sample No.	1-1	
Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400	-0.38	32.40
2410	-0.29	33.89
2420	-0.85	29.91
2430	-0.86	29.77
2440	-0.22	29.21
2450	0.31	32.38
2460	0.01	31.70
2470	-0.47	32.28
2480	-0.87	30.97
2490	-0.59	32.49
2500	-0.21	32.61

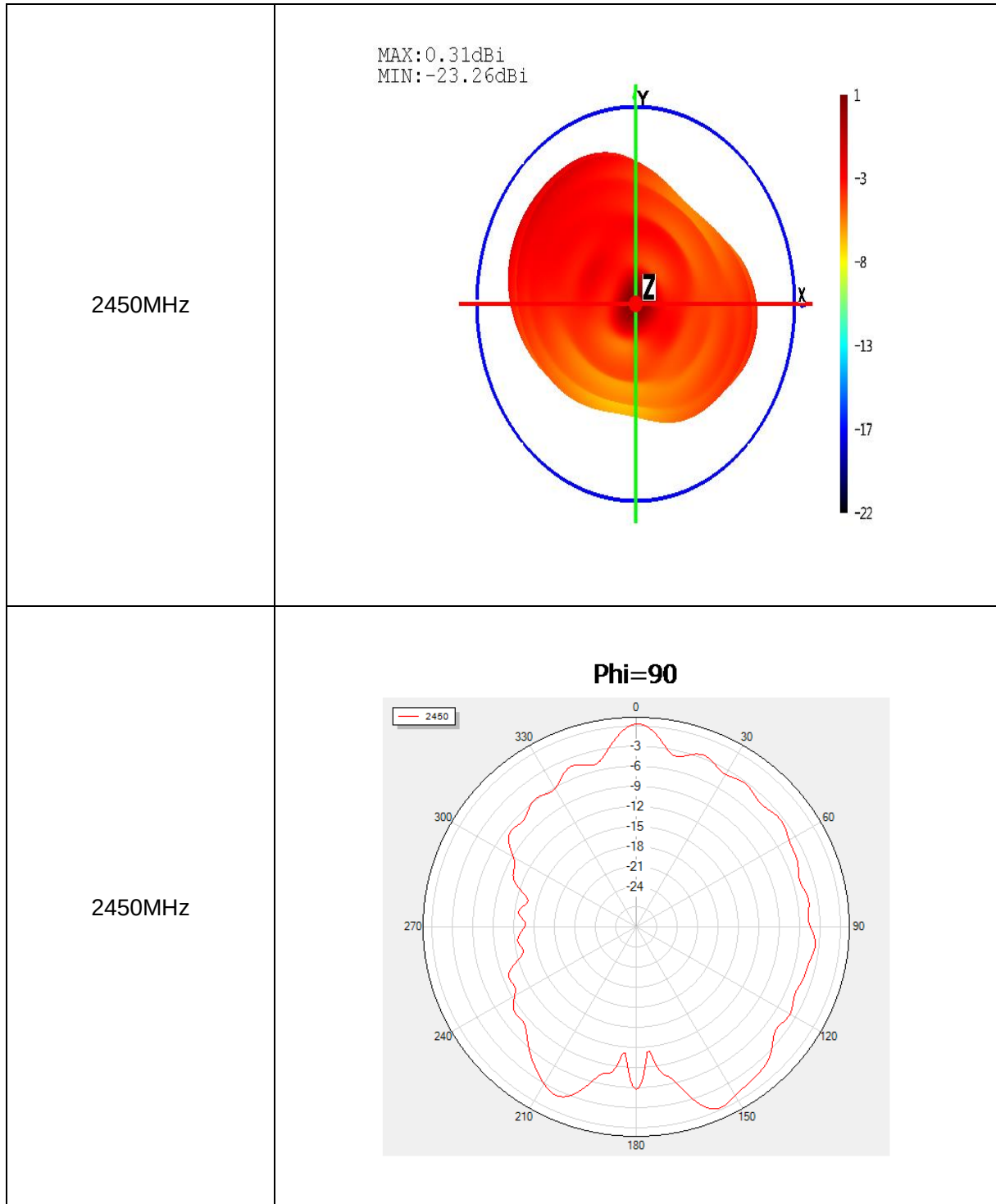
3.2 Test Graphs

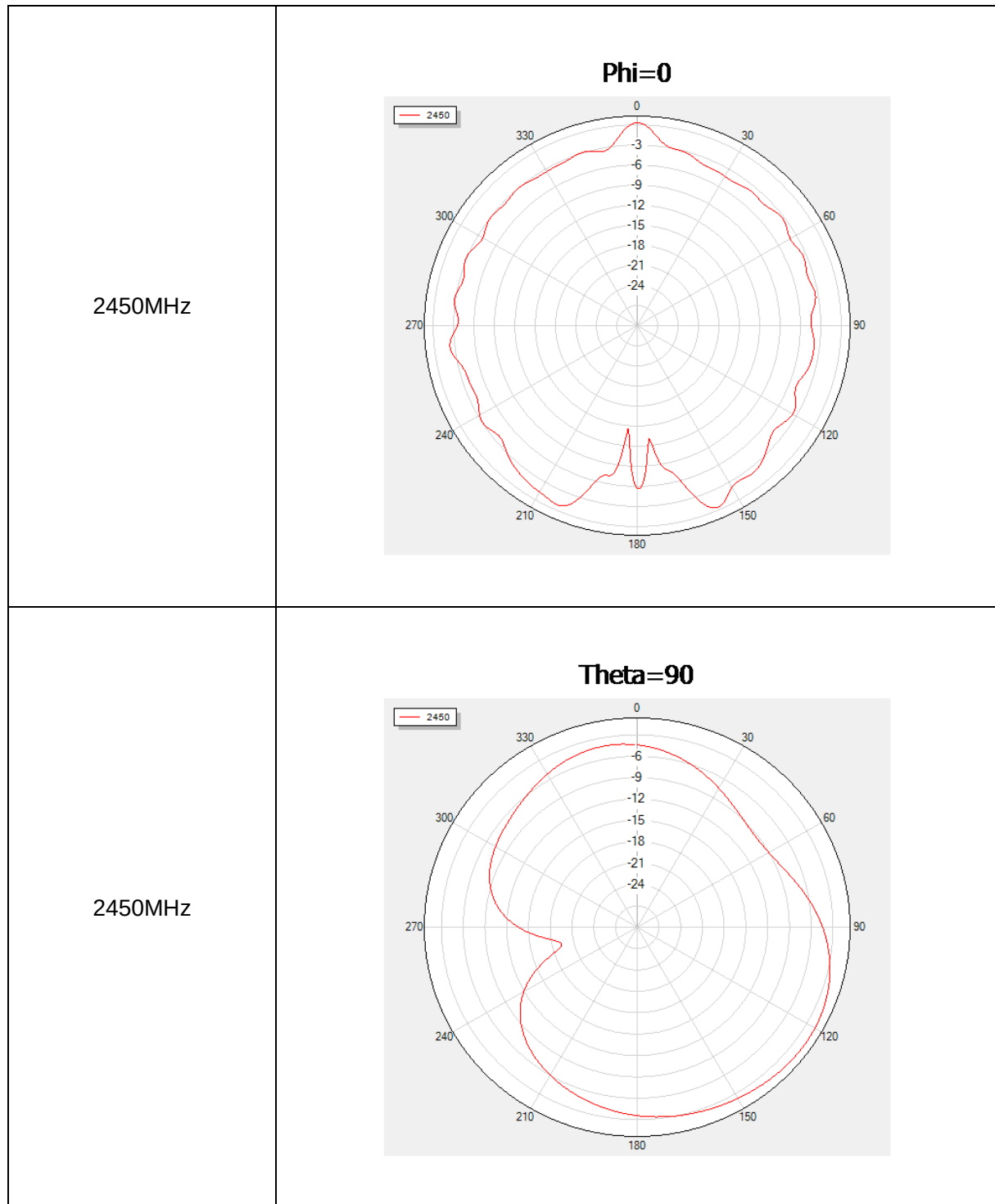


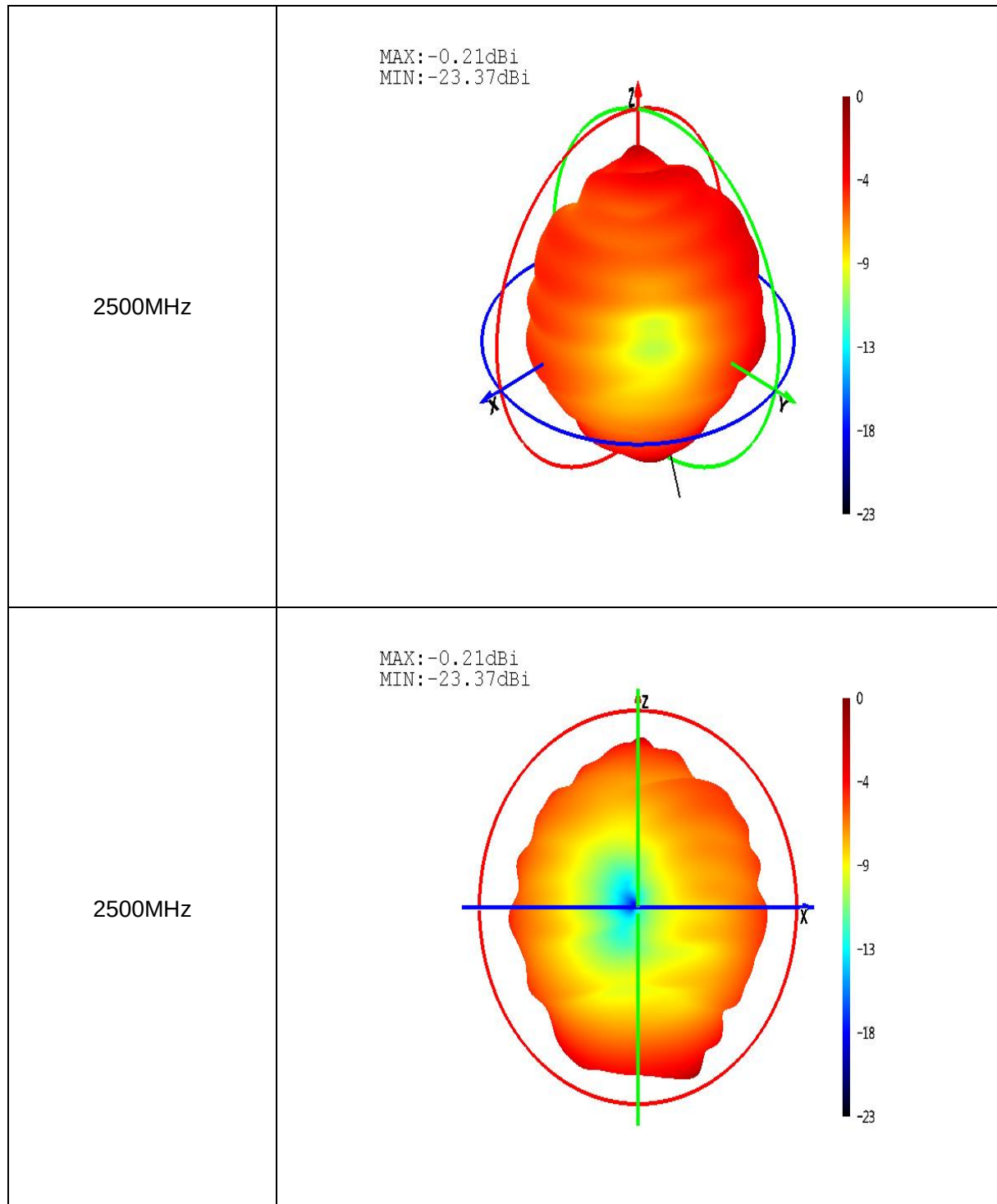


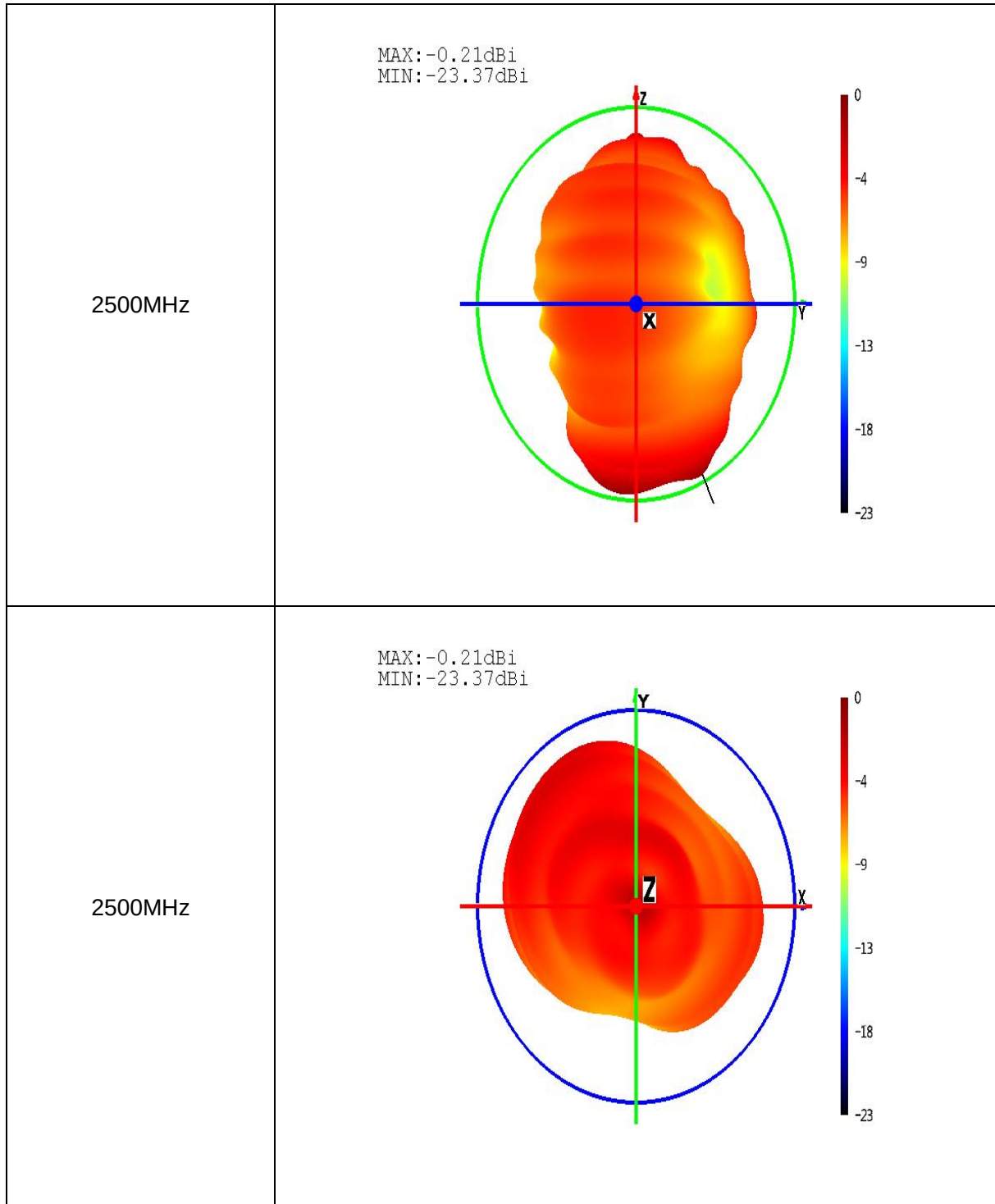


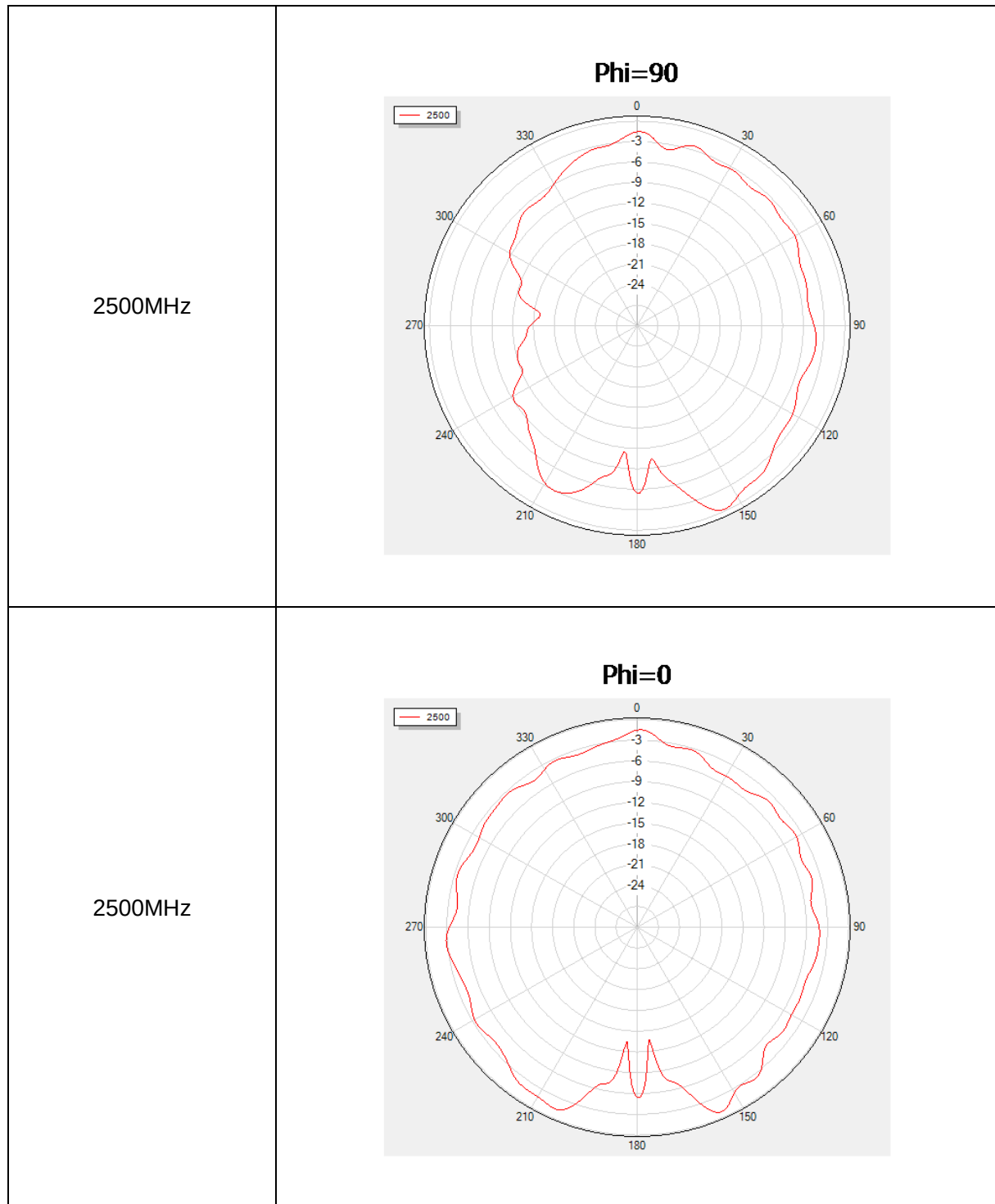


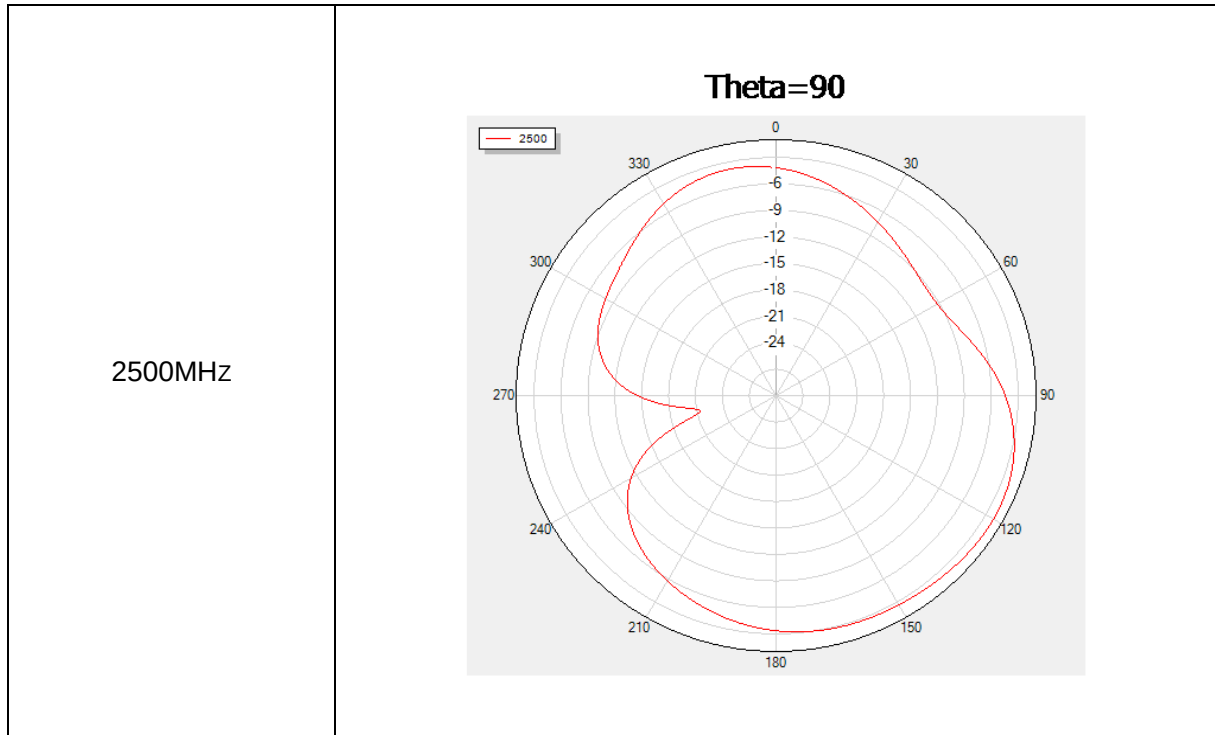




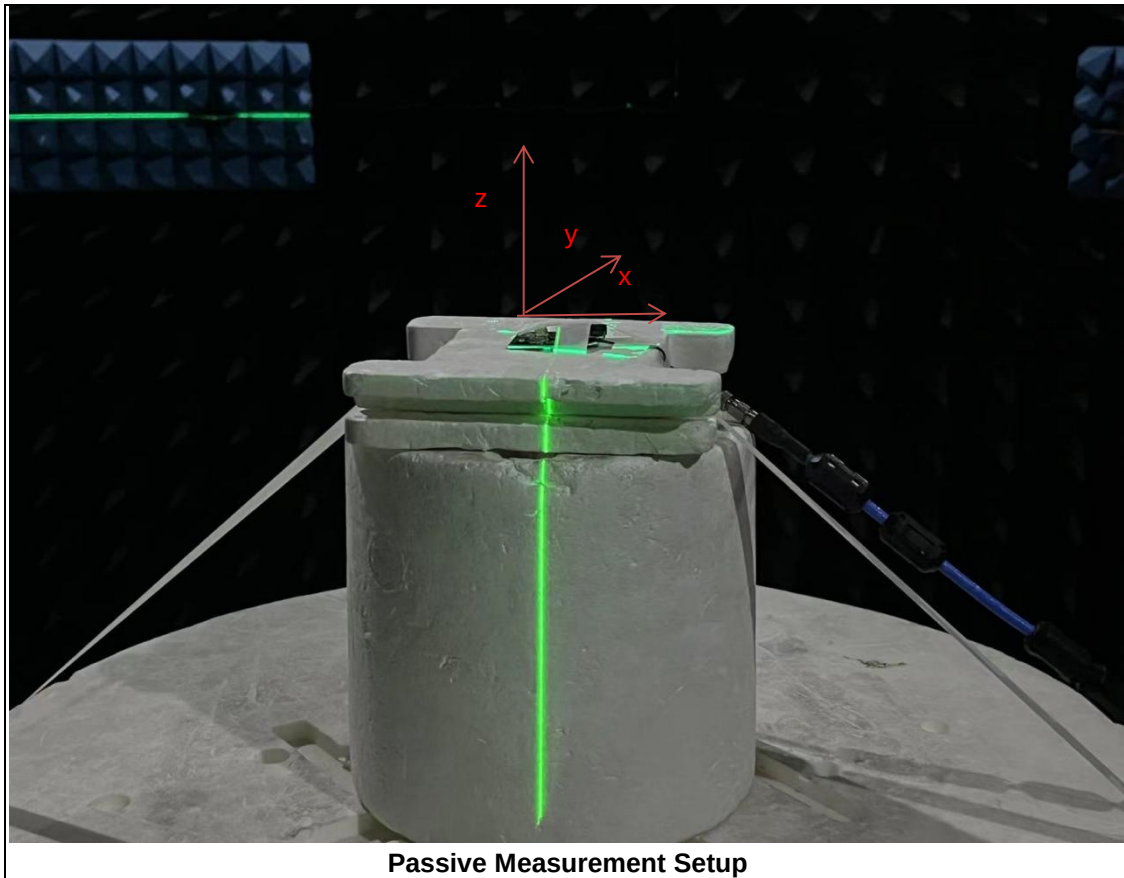


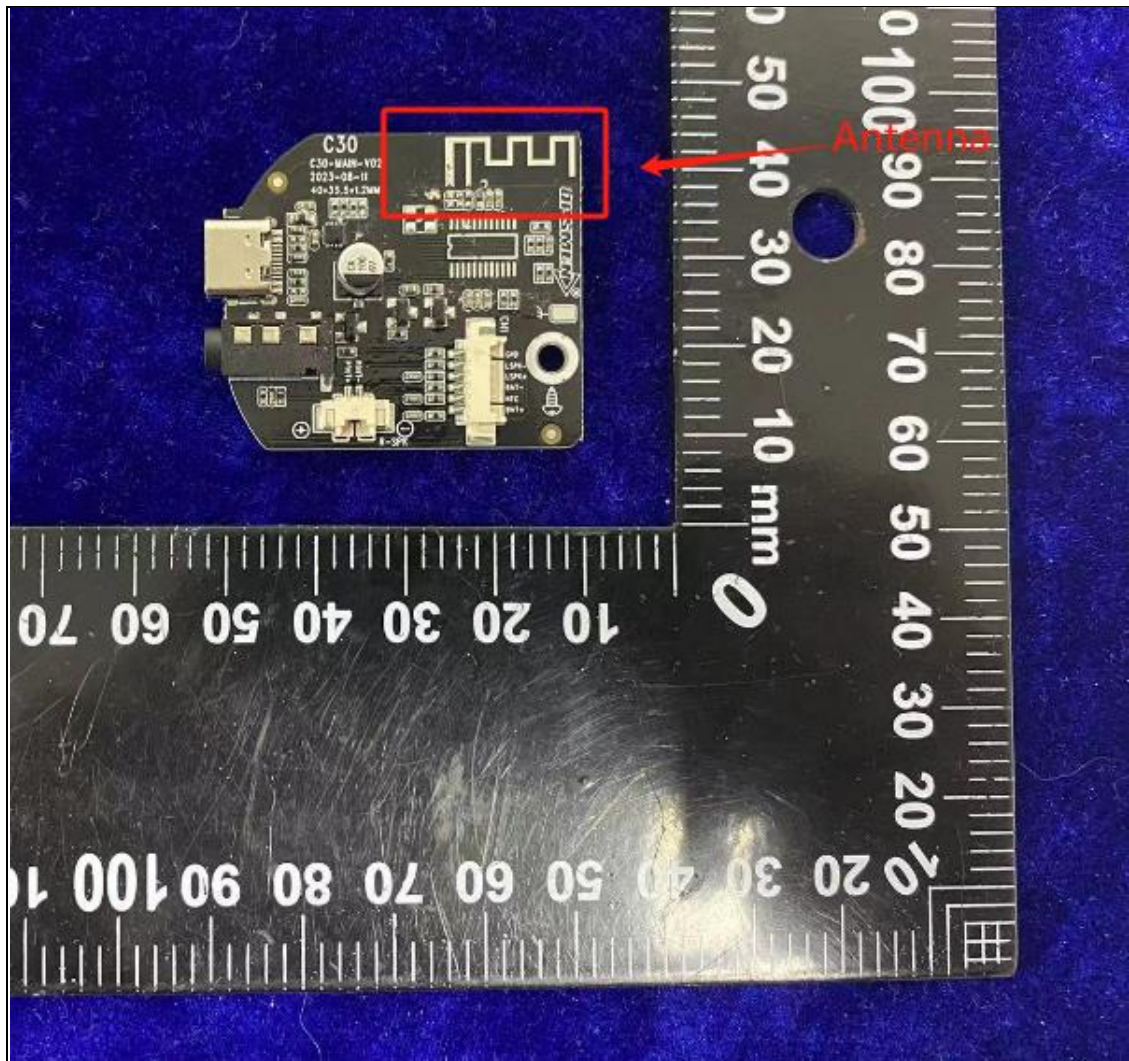






4. PHOTOGRAPH OF TEST SET UP



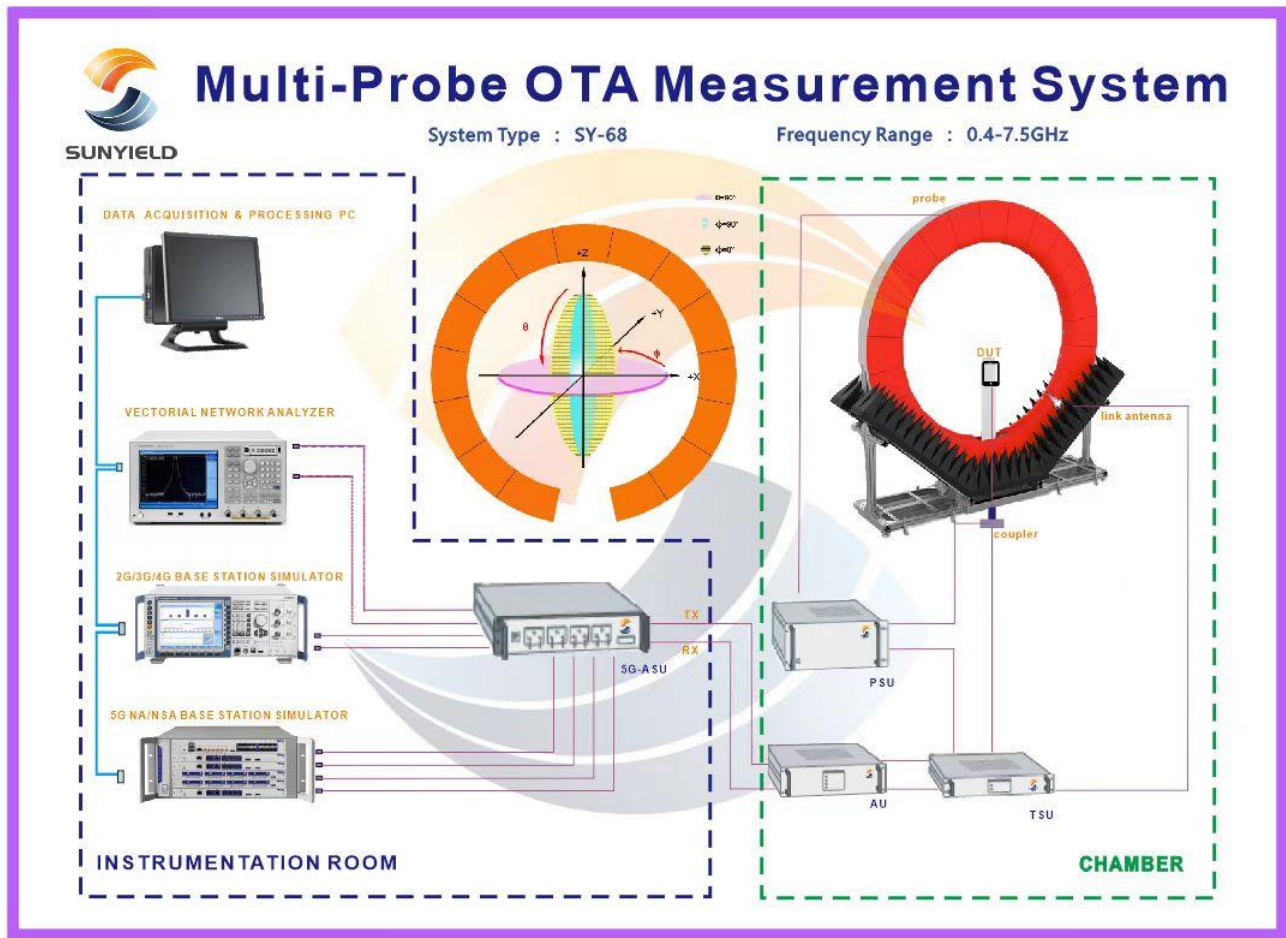




APPENDIX A

Test Equipment	Equipment No.	Serial No.	Manufacturer	Type/Model	Cal.Due	Using
Shielded Room	CS0300038	20211221	SUN YIELD	6m*6m*6m	2024/12/20	√
Vector Network Analyzer	CS0300067	101544	R&S	ZNB40	2024/5/25	√
Automatic switching unit	CS0300039	81612472	/	5G ACTIVE SWITCHING UNIT	/	√

APPENDIX B





Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N/A” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

****The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.****

Address of the laboratory:

CVC Testing Technology (Shenzhen) Co., Ltd.

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