



Confidential Information

Shenzhen Yesheng Communication Technology Co.,Ltd

Specification for built-in Antenna

上海慧银信息科技有限公司

WIZARPOS UPT Antenna Product Confirmation

Client	上海慧银信息	Freq-Band	2400MHz-2500MHz
Product Name	WIZARPOS UPT	Version	YST-V1.0
Item Number	YST211201-Q3V-GWB GWB antenna	Copies	3
Sample type	FPC Antenna	Colour	Black
RF Designer		Structural design	
Department Manager		Date	August 29, 2022

Client confirms:

Producer: Ying Jia Bing

address: Room 308, building 64, Jin Long Industrial City (Tianmawei building) , 88 Daxin road, Majarong, Nanshan district, Shenzhen. Tel: 0755-22678821 fax: 0755-22678890

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1. Technical Information

1.1 Testing company

Testing company:	Shenzhen Yesheng Communication Technology Co.,Ltd
Test address:	Room 308, building 64, Jin Long Industrial City (Tianmawei building) , 88 Daxin road, Majarong, Nanshan district, Shenzhen
Test date:	2022-8-29

1.2Test information

WireLess type:	GWB antenna
Frequency:	2400MHz-2500MHz
Sample NO:	1#
Product Name	WIZARPOS UPT

2. Antenna

2.1 Picture of antenna and prototype

WIZARPOS UPT-Antenna Machines Picture



2.2 Antenna specifications

1、Antenna Composition:

GWB antenna, FPC black, Screen Printing: YST-Q3V-GWB

2、Packing Method

GWB antenna, packaged and shipped.

2.3 Test Conditions

1、Test Environment Conditions:

Darkroom humidity:	25...75%
Darkroom temperature	(18-25) °C

3. Antenna Test

3.1、Test Environment:

Test was conducted in free space condition (microwave unreflected chamber).

Satimo 3D Chamber 6×4×4(m)

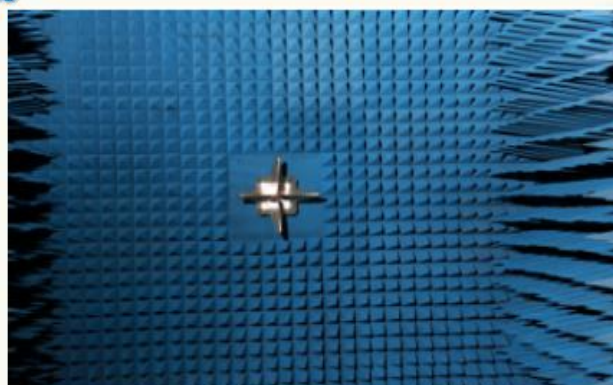
gilent 8960 8753ES CMW500

twork analyzer-R&S ZVL

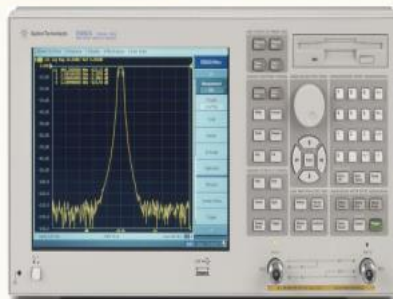
ETS



SATIMO—24



罗德斯瓦茨屏蔽箱



测试系统

有缘测试

无源测试

SATIMO

ETS

支持2G/3G/4G

600MHZ——6G

3.2、 The turn of VSWR test equipment connection is:

R&S ZVLwork analyzer→test line→Test fixture→ actual measurement (See figure) 。

3.3、 Gain,efficiency,power (TRP) ,sensitivity (TIS) :

microwave unreflected chamber:

test frequency range 400MHz—6GHz, Quiet zone range is 50cm around,
reflectivity less than-50 dB

3.4、 Test instrument

R&S ZVL work analyzer、 Agilent8960 8753ES CWM500 Standard horn
antenna etc。

4. Points to notea

This antenna is only suitable for debugging prototype, any change of motherboard version or RF MATERIAL, any change of mobile phone accessories (such as camera, screen, speaker, motor, chassis technology, etc.) , must be tested and verified by our company before use.

6. Test Results lists

In microwave unreflected chamber, the power and sensitivity are listed below:

5.1、Gain

GWB antenna Gain	
Frequency (MHz)	Gain (dBi)
1575	1.38
2300	1.03
2400	1.59
2500	1.10

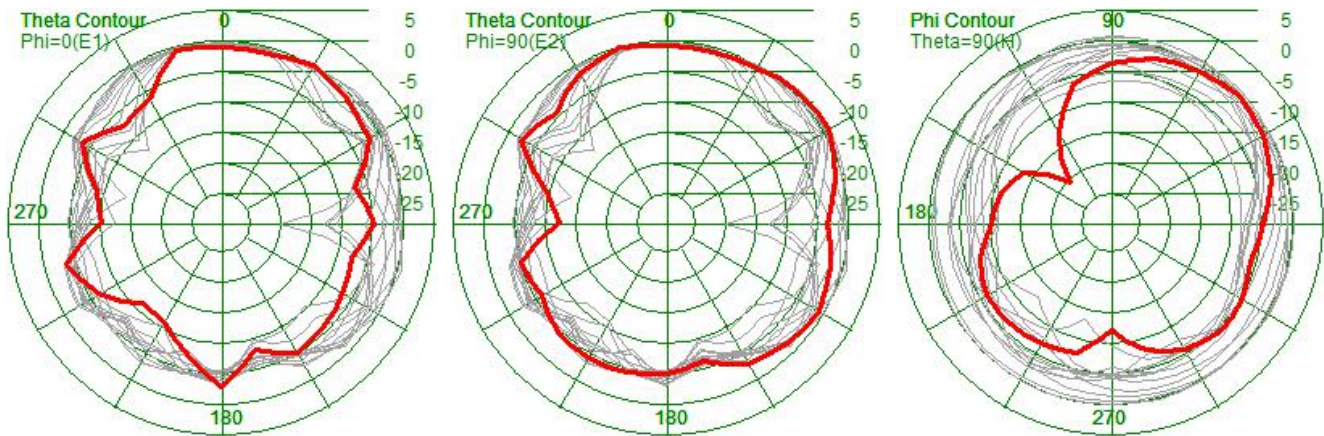
5.2、VSWR

GWB antenna VSWR	
Frequency (MHz)	VSWR
1575	1.46
2300	2.24
2400	1.42
2500	1.85

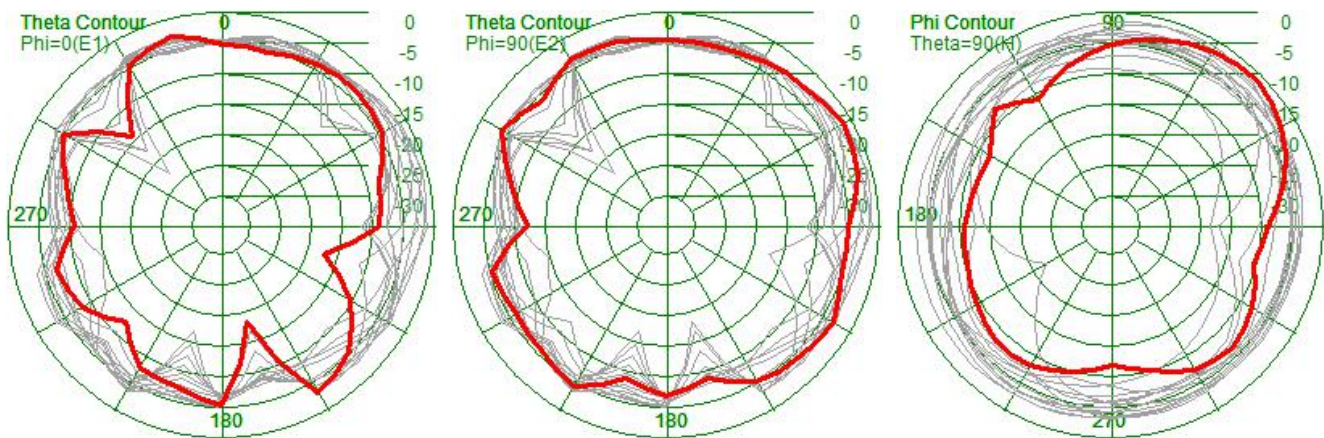
5.4、 2D Radiation Pattern

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2400MHz

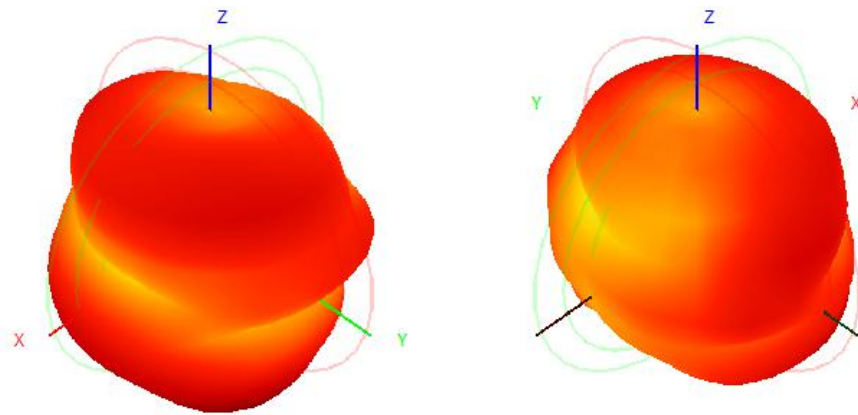


2500MHz

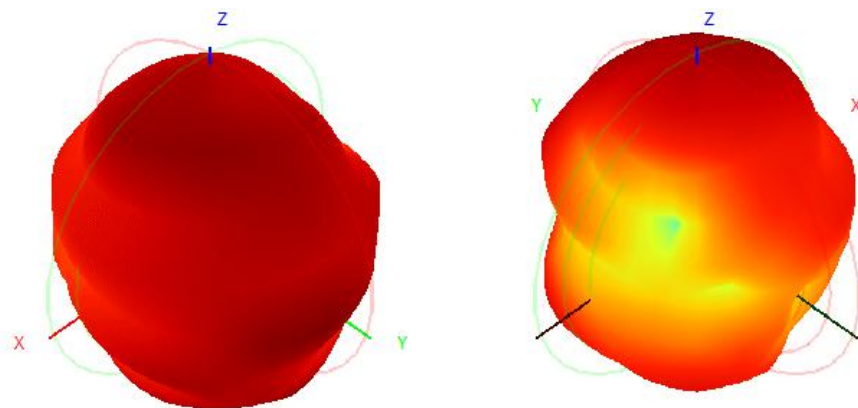


5.4、 3D Radiation Pattern

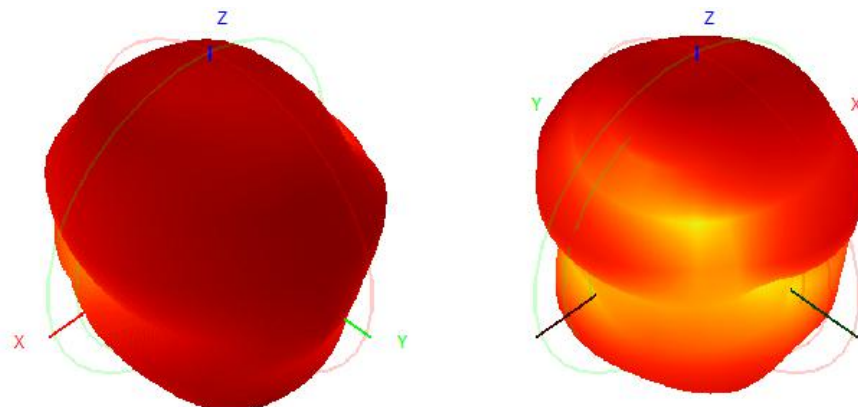
1575MHz



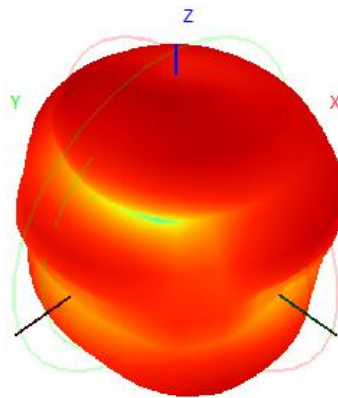
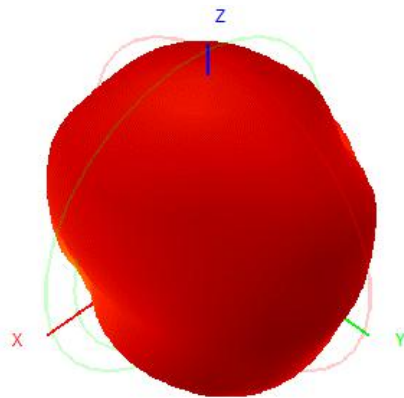
2300MHz



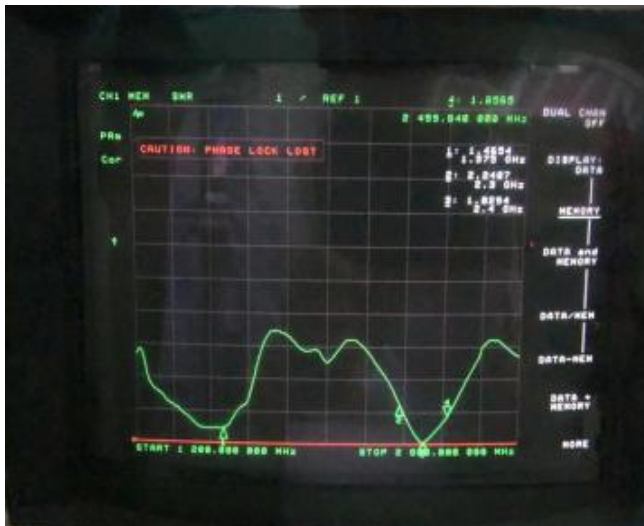
2400MHz



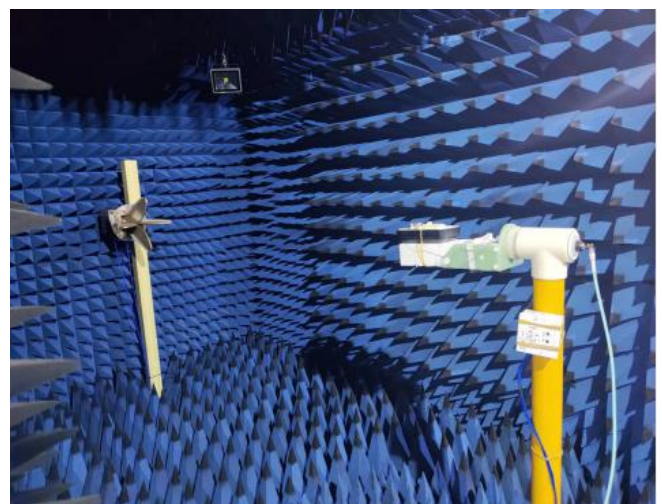
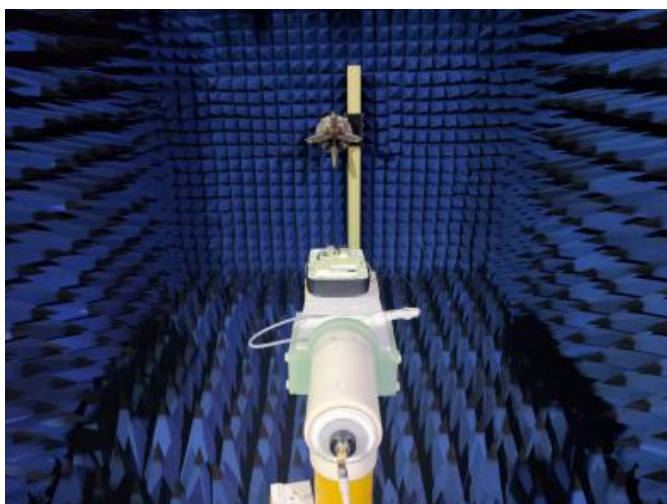
2500MHz



5.5、VSWR



6.Test Photographs



6.1、 Conclusion

This antenna is designed on the basis of the prototype supplied by the customer. Please confirm that the electrical performance parameters and structure have reached the customer's technology.

7. General Informaion

Testing company:	Shenzhen Yesheng Communication Technology Co.,Ltd
Test address:	Room 308, building 64, Jin Long Industrial City (Tianmawei building) , 88 Daxin road, Majarong, Nanshan district, Shenzhen
Telephone:	0755-22678821
Facsimile:	0755-22678890

8. Test Equipments Utilized

N0:	Equipement Name	YSTCoding	Models	Brand	Country
1	Network Analyzer	YST001	8753es	Agilent	China
2	Integrated Tester	YST002	8960	Agilent	China
3	Comprehensive Measuring Instrument	YST003	CMW500	R&S	China
4	Test Software	YST004	TES	Fito	China

9. Engineering drawing

