

Shenzhen Sunwin Communication Technology Co., LTD

Antenna Test Report

Antenna Manufacturer Address

Room 401, Building 211, Tairan Industry & Trade Park, Chegongmiao,
Futian District, Shenzhen City

Customer name: Hon Yue
Project name: B12
Report time: 20260716

Saiwei-Sai to far, Wei to eternity!

- △ Project Debugging Introduction
- △ Report Version Summary
- △ Test Environment
- △ Main Antenna Dark Chamber Data
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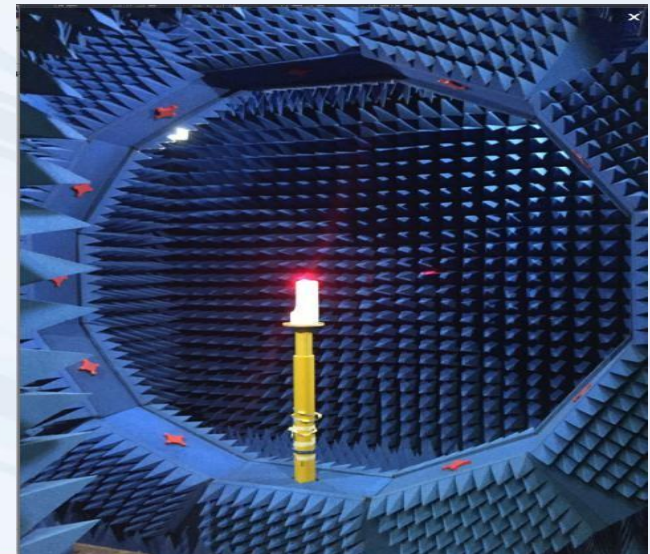
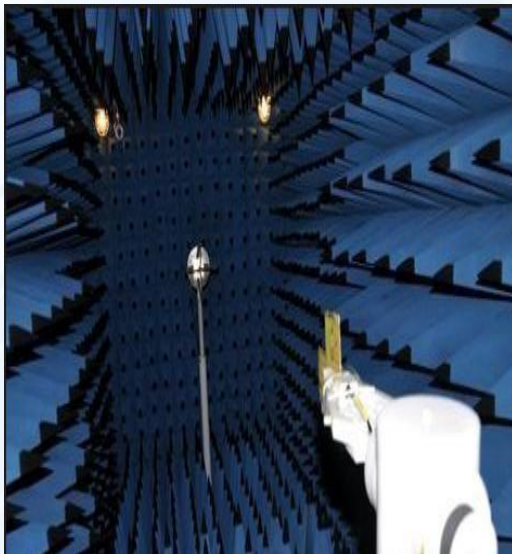
Project Debugging Introduction

type						
template						
Antenna Overview	main antenna	frequency range		Antenna status	Antenna type	Design area
		2G	GSM850: 824 - 894 MHz GSM900: 890 - 960 MHz DCS1800: 1710 - 1880 MHz PCS1900: 1850 - 1990 MHz	FPC	PIFA	
		3G	B1: 1920 - 2170 MHz B5: 824 - 894 MHz B8: 880 - 960 MHz			
		4G	BAND 1: 1920 - 2170 MHz BAND 3: 1710 - 1880 MHz BAND 5: 824 - 894 MHz BAND 7: 2500 - 2690 MHz BAND 8: 880 - 960 MHz BAND 20: 791 - 862 MHz BAND 38: 2570 - 2620 MHz BAND 40: 2300 - 2400 MHz BAND 41: 2496 - 2690 MHz			
		GPS	1565.42 - 1585.42 MHz		PIFA	

		BT/ WIF I	2.4GHz: 2400 – 2500 MHz 5GHz: 5150 – 5850 MHz					
		diver sity						
Prototype status				Environmental Treatment				

Report Version Summary

edition	date	Content Overview
V1	20260716	data report



2G	Channel	TRP (dBm)	TIS (dBm)
850	128	23.2	
	192	24.3	
	251	25.1	-101.1
900	1	23.8	
	62	24.2	
	124	24.3	-98.6
1800	512	23.1	
	698	22.3	
	885	22.0	-101.3
1900	512	21.5	
	661	22.2	
	810	22.4	-97.8

3G	Channel	TRP (dBm)	TIS (dBm)
W1	L	14.9	
	M	15.3	
	H	15.5	-101.6
W5	L	13.8	
	M	13.5	
	H	13.6	-103.8
W8	L	14.6	
	M	14.4	
	H	14.7	-101.7

4G	Channel	TRP (dBm)	TIS (dBm)
LTE-1	L	15.4	
	M	16.1	
	H	16.5	-87.7
LTE-3	L	13.2	
	M	13.4	
	H	13.3	-85.7
LTE-5	L	14.1	
	M	13.8	
	H	14.3	-87.5
LTE-7	L	13.2	
	M	12.8	
	H	12.7	-85.8

4G	Channel	TRP (dBm)	TIS (dBm)
LTE-8	L	14.2	
	M	14.0	
	H	14.5	-87.1
LTE-38	L	17.7	
	M	17.8	
	H	17.9	-87.8
LTE-40	L	16.2	
	M	15.1	
	H	14.2	-87.5
LTE-41	L	15.9	
	M	15.2	
	H	14.4	-87.2

Antenna gain

Standard	Band	Frequency (MHz)	Gain (dbi)
GSM	850	824-894	-1.31
GSM	900	890-960	-0.91
GSM	1800	1710-1880	-0.71
GSM	1900	1850-1990	-0.24
WCDMA	W1	1920-2170	0.25
WCDMA	W5	824-894	-1.31
WCDMA	W8	880-960	-0.91
LTE	B1	1920-2170	0.25
LTE	B3	1710-1880	-0.71
LTE	B5	824-894	-1.31
LTE	B7	2500-2690	0.87

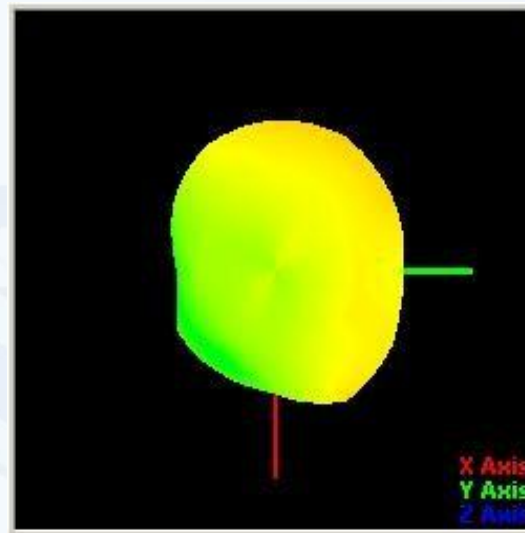
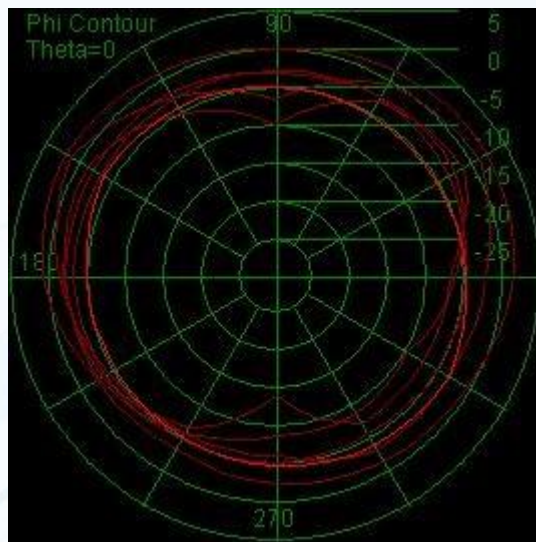
Standard	Band	Frequency (MHz)	Gain (dbi)
LTE	B8	880-960	-0.91
LTE	B38	2570-2620	0.66
LTE	B40	2300-2400	-0.76
LTE	B41	2496-2690	1.20
BT/WIFI	2.4G	2400-2500	-0.15
WIFI	5G	5150-5850	0.88
GPS	1.575G	1575.42	-1.23

is far away, and Wei is eternal!

2D/3D

Main antenna apple diagramApple chart

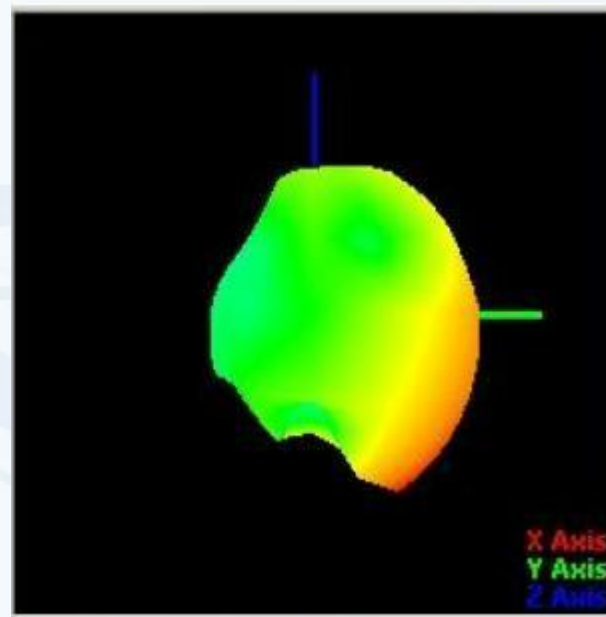
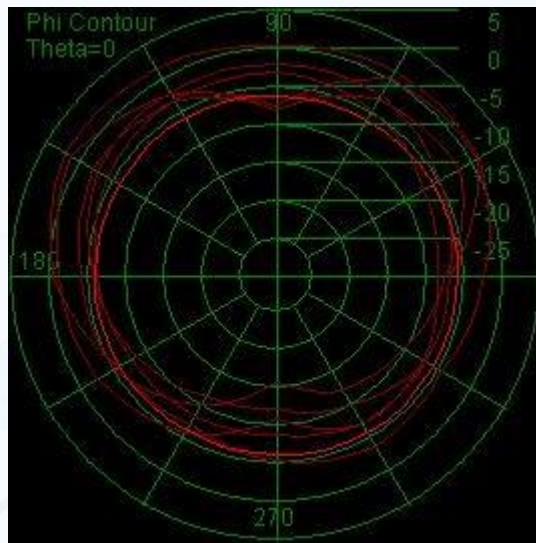
800M



2D/3D

Main antenna apple diagramApple chart

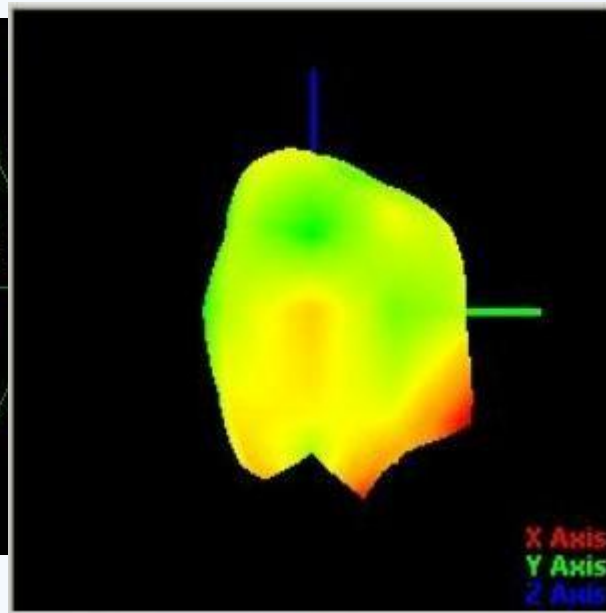
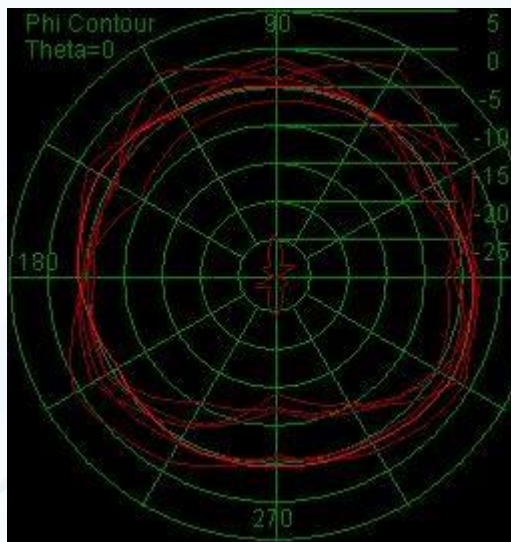
900M



2D/3D

Main antenna apple diagramApple chart

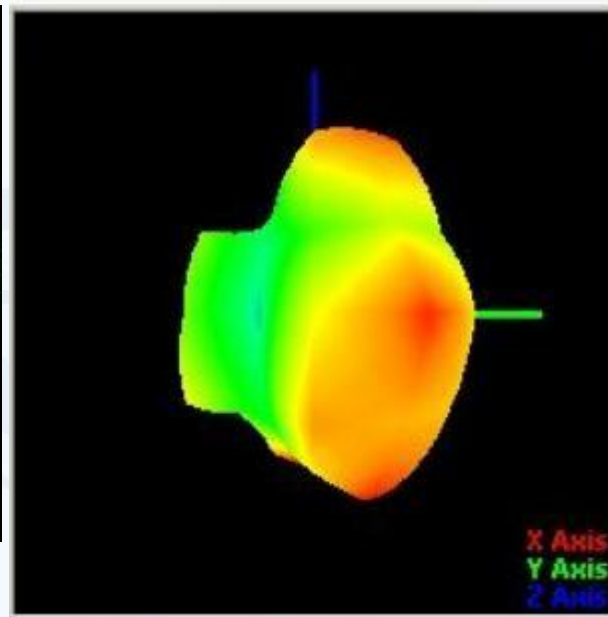
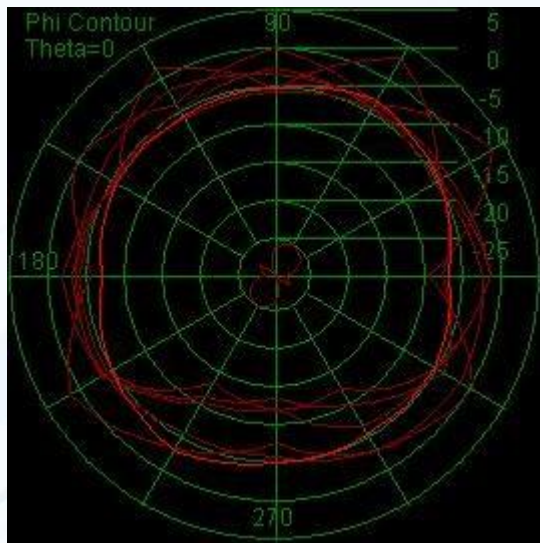
1700M



2D/3D

Main antenna apple diagramApple chart

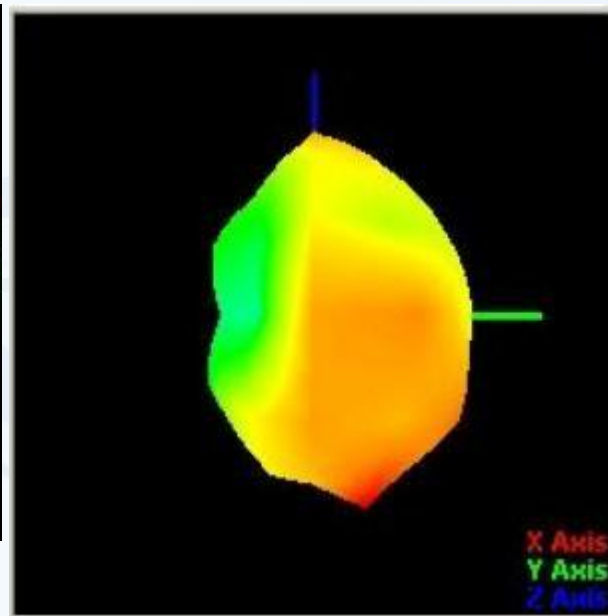
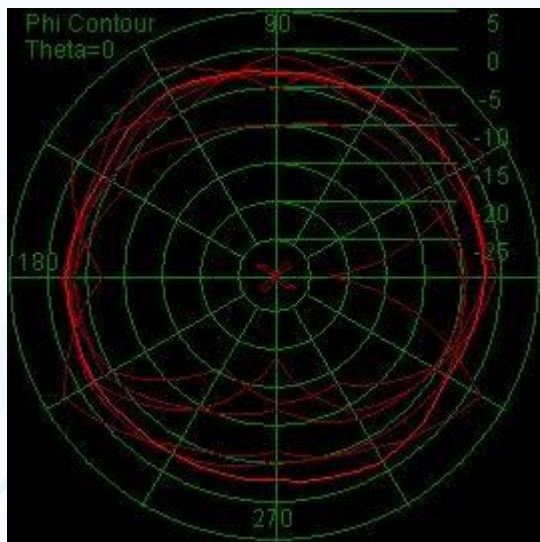
1800M



2D/3D

Main antenna apple diagramApple chart

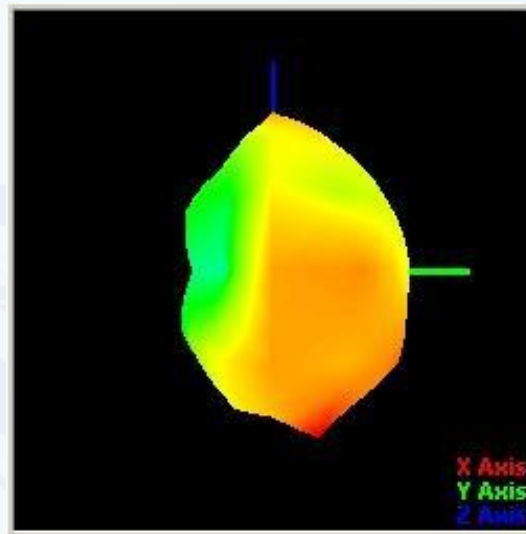
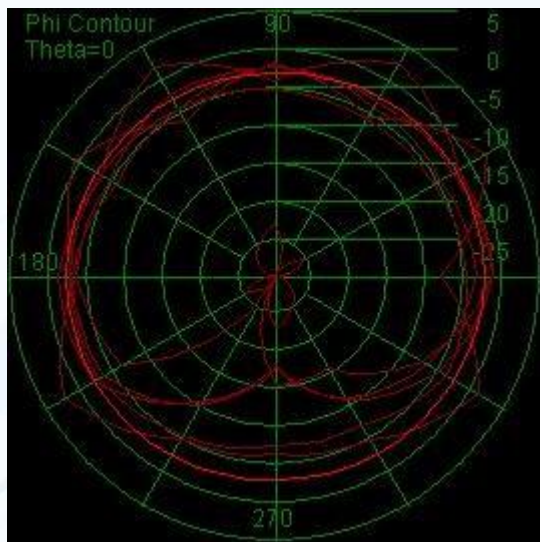
1900M



2D/3D

Main antenna apple diagramApple chart

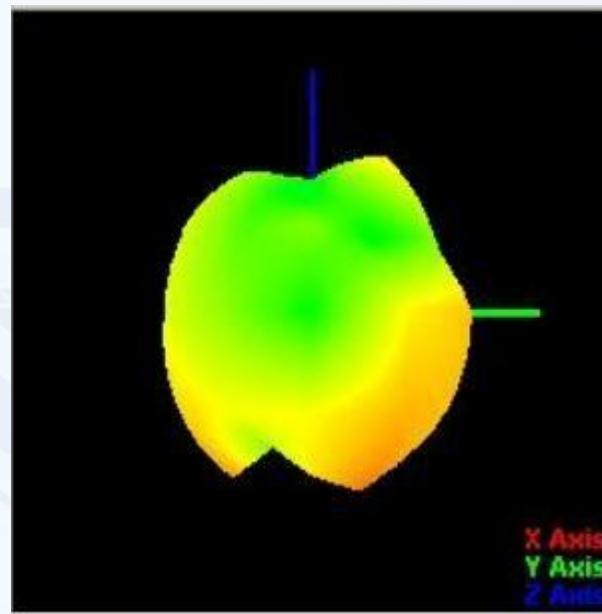
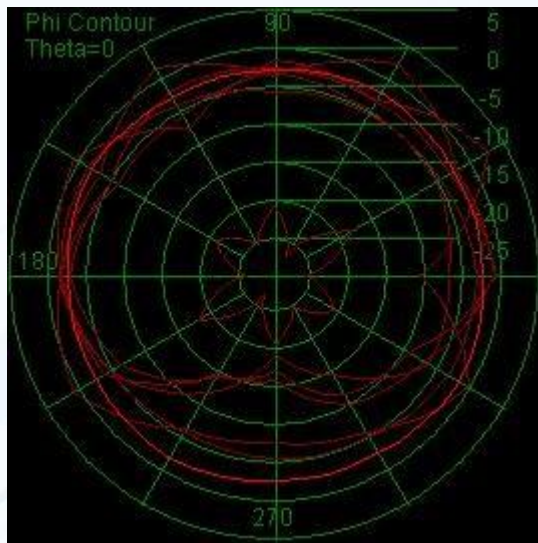
2100M



2D/3D

Main antenna apple diagramApple chart

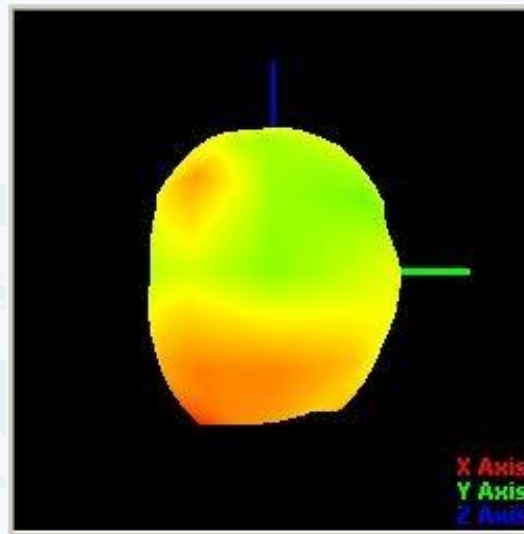
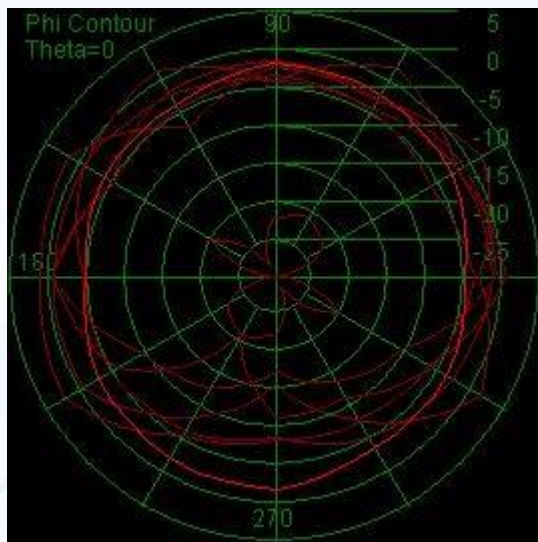
2300M



2D/3D

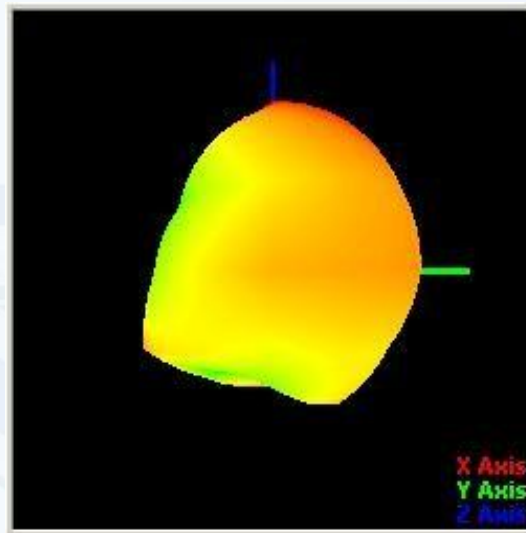
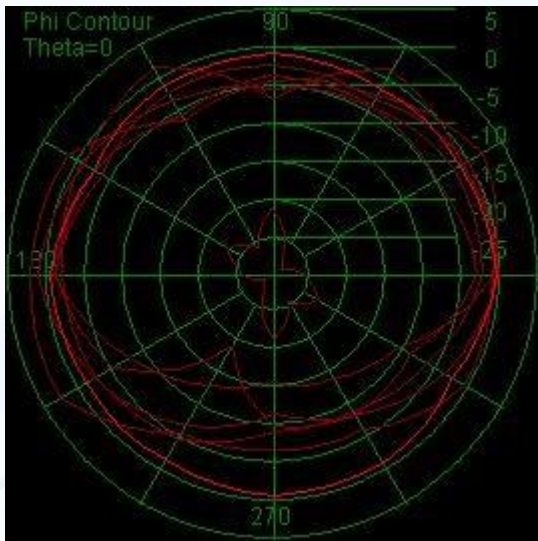
Main antenna apple diagramApple chart

2600M



2D/3D WIFI/BT antenna apple diagramApple chart

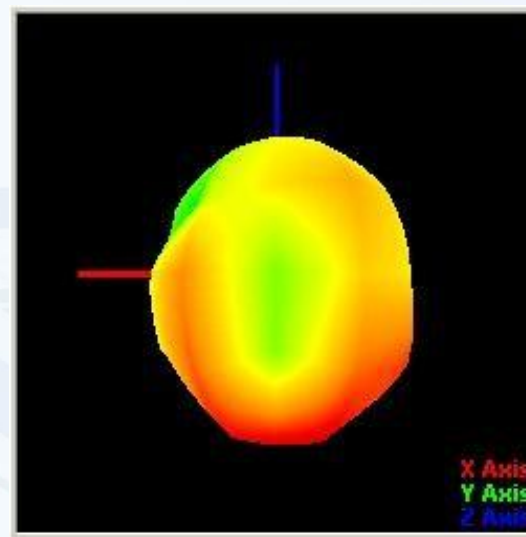
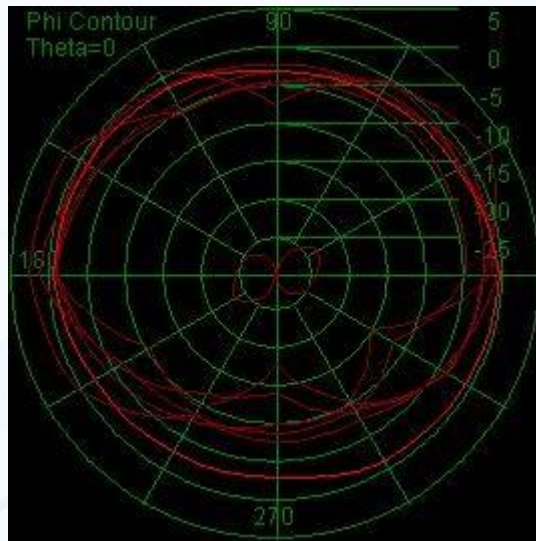
WIFI/BT/2.4G



2D/3D

WIFI antenna apple diagramApple chart

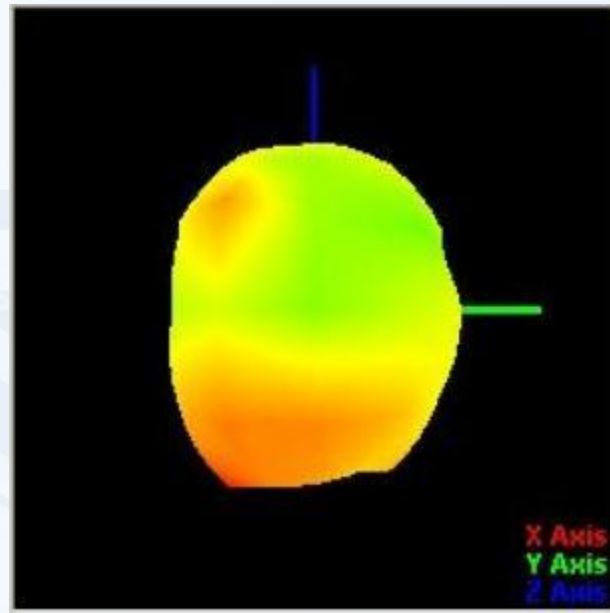
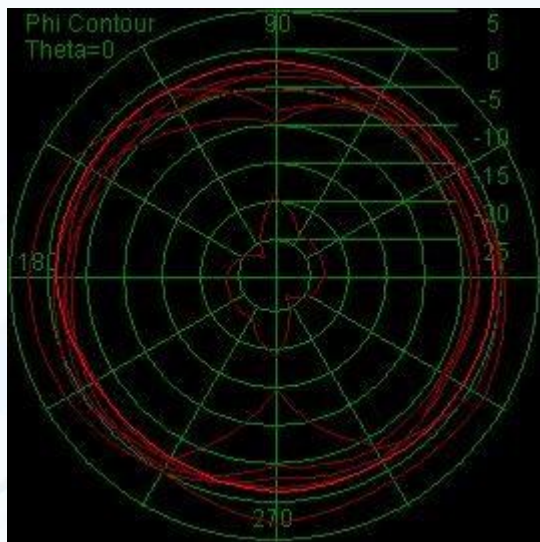
WIFI/5G



2D/3D

GPS antenna apple diagramApple chart

GPS



Additional Notes

Please carefully verify whether the matching circuit mentioned in the report has been modified and whether the environmental processing has been imported, which will directly affect the antenna performance.

Note: The parameters in this report are solely for our companys prototype debugging and do not reflect the final production status of your companys project.

If your company has a prototype with the latest trial production or updated status (such as material replacement, software update, or environmental processing change), please submit it to us for verification as soon as possible to confirm whether the antenna performance is affected. If your company needs to send the antenna to a third party for retest or to the customer for test, please submit the machine to be tested to our company for test confirmation, because the consistency of the motherboard, the consistency of the assembly, and the difference in the antenna assembly may lead to the deviation of the antenna parameters.

THANKS!

