

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	高盛达
CS P/N(客户机种)	WC0D
PART NAME(品名)	WIFI Antenna
FREQUENCY(频率)	2400-2500MHz 5150-5850 MHz
ZTX NO.(物料编号)	2.00000630
DATE(日期)	2016-06-29

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		邓琦乐	王亚军	

Manufacturer: ZHONG TIAN XUN TECHNOLOGY CO., LTD

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1. General Description

Dbi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board

2. Electrical Specifications

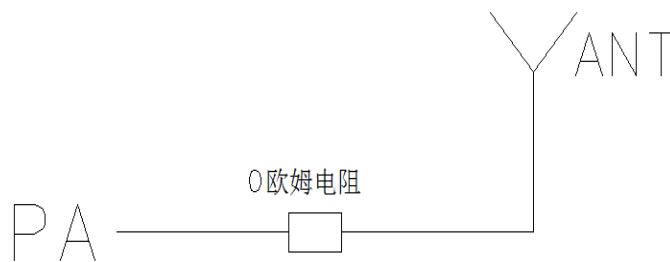
2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Frequency
WIFI 2.4G	2400-2500MHZ
WIFI 5.8G	5150-5850MHZ

2-1-2 Impedance

Nominal Impedance(including matching circuit) : **50 ohms**



2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1
Optimum matching circuit is highly dependent on the handset and thus.
Final matching circuit layout and values will be defined when handset is available.

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2-1-4 VSWR And GAIN

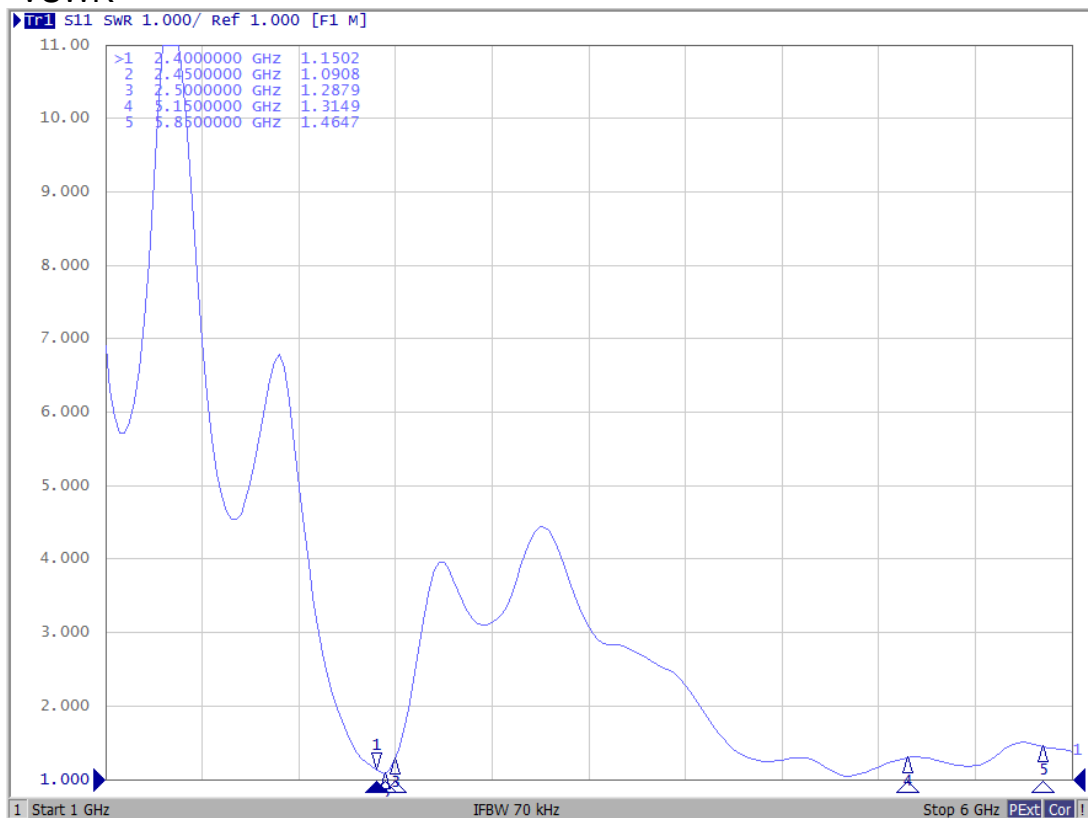
VSWR		GAIN	
Freq. Band	OPEN SPEC	Band Freq.	OPEN SPEC
2400MHz	$\cong 2.0$	2400MHz	$\cong -1.0\text{dBi}$
2500MHz	$\cong 2.0$	2500MHz	$\cong -1.0\text{dBi}$
5150MHz	$\cong 2.0$	5150MHz	$\cong -1.0\text{dBi}$
5850MHz	$\cong 2.0$	5850MHz	$\cong -1.0\text{dBi}$

※Measuring a 50 Ω test jig is connected to a network analyzer to measure the VSWR.

※※All test value is done in customer approval fixture.

2-2 Test Data

2-2-1 VSWR



Model No:WC0D	File:
ZTX NO:WC0D天线	Note: WIFI2.4G/5G
Sample No:yes	
Test Condition: Free Space	
Confirmation:	Engineer: 王亚军

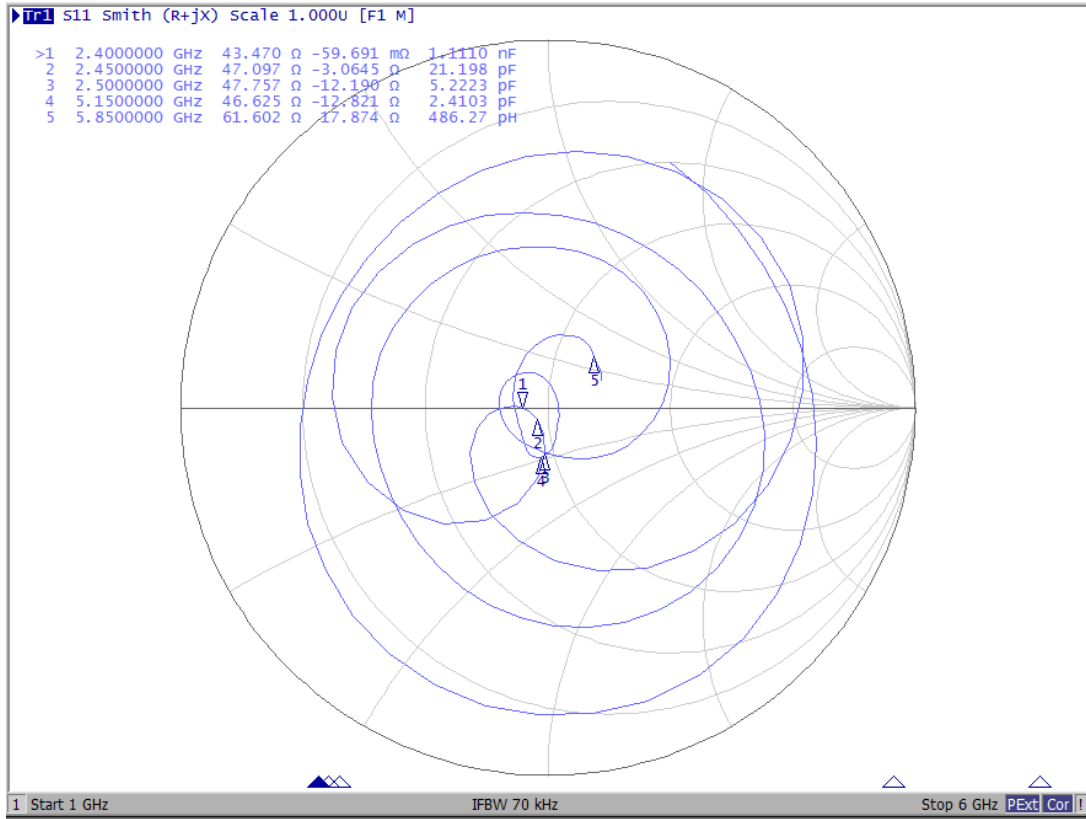
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2-2-2 Smith Chart



2-2-3 GAIN Efficiency

WIFI 增益:

Frequency (MHz)	WIFI				
	2400	2450	2500	5150	5850
Gain Efficiency (dB)	1.42 (44%)	1.72 (48%)	1.65 (45%)	2.34 (61%)	2.57 (66%)

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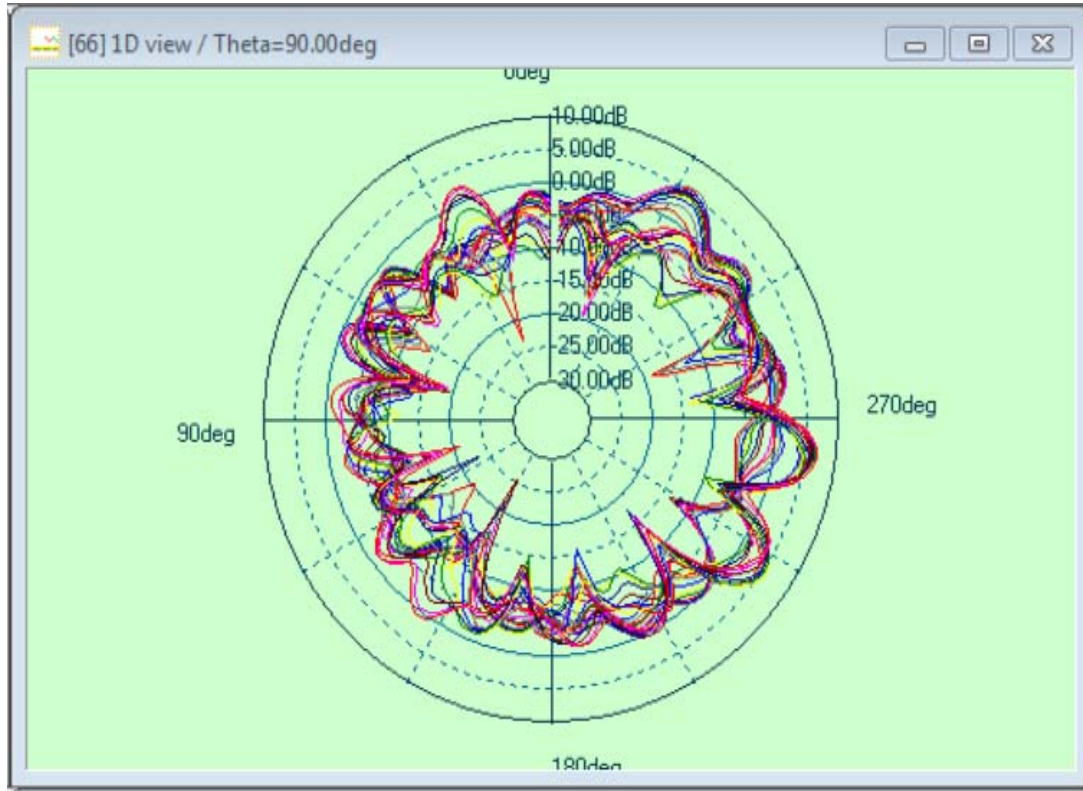
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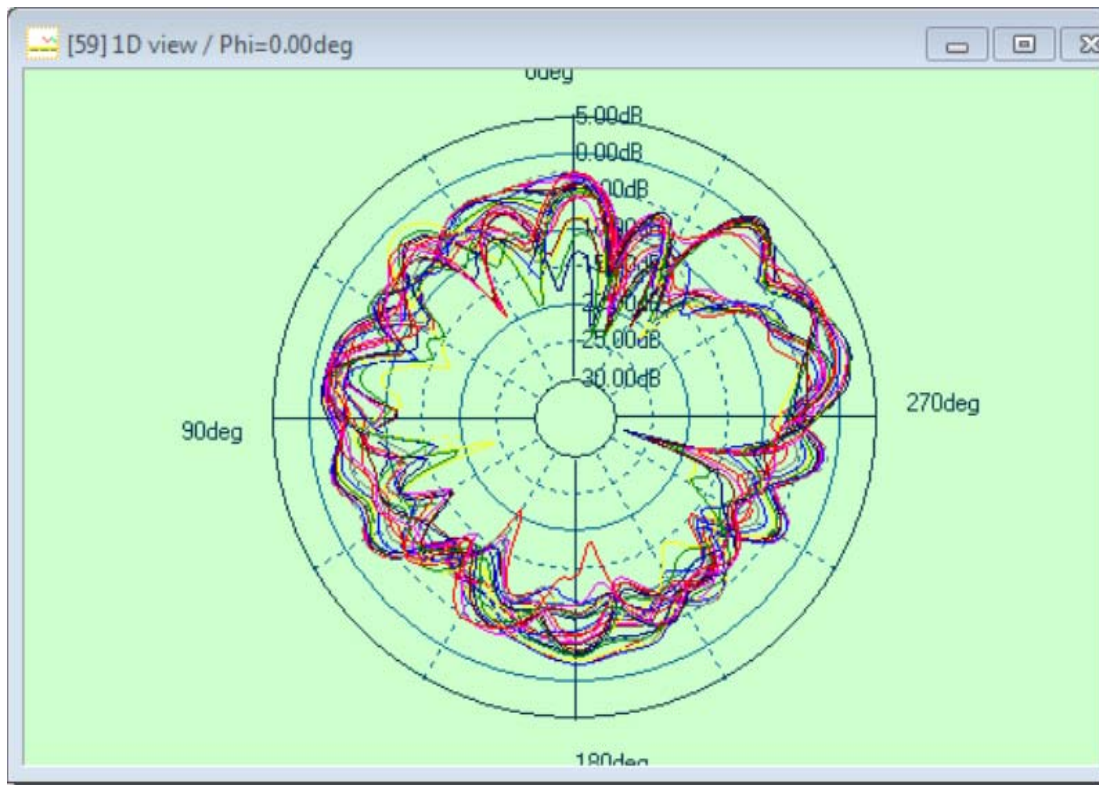
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2-2-4 The direction of figure

H



E1



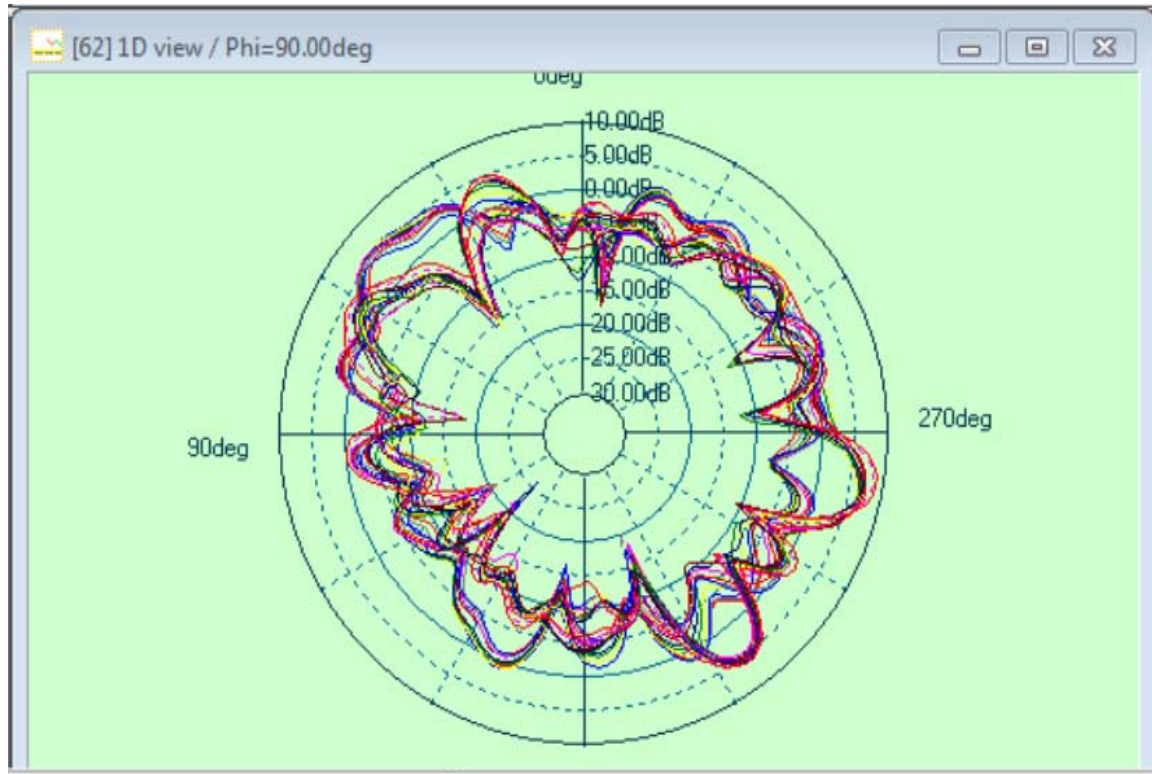
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E2



2-2-5 Testing equipment



公司拥有通信行业最领先的法国 Satimo SG24 OTA测试系统1套, ETS OTA 标准测试系统2套, Bluetest 混响暗室1套, MicroPross NFC测试系统1套, 能快速稳定的给客户id提供精确的测试报告, 完全符合CITA标准, 支持 GSM/CDMA/WCDMA/TD/LTE/WIFI/BT/GPS/MIMO等各制式的有源无源测试。



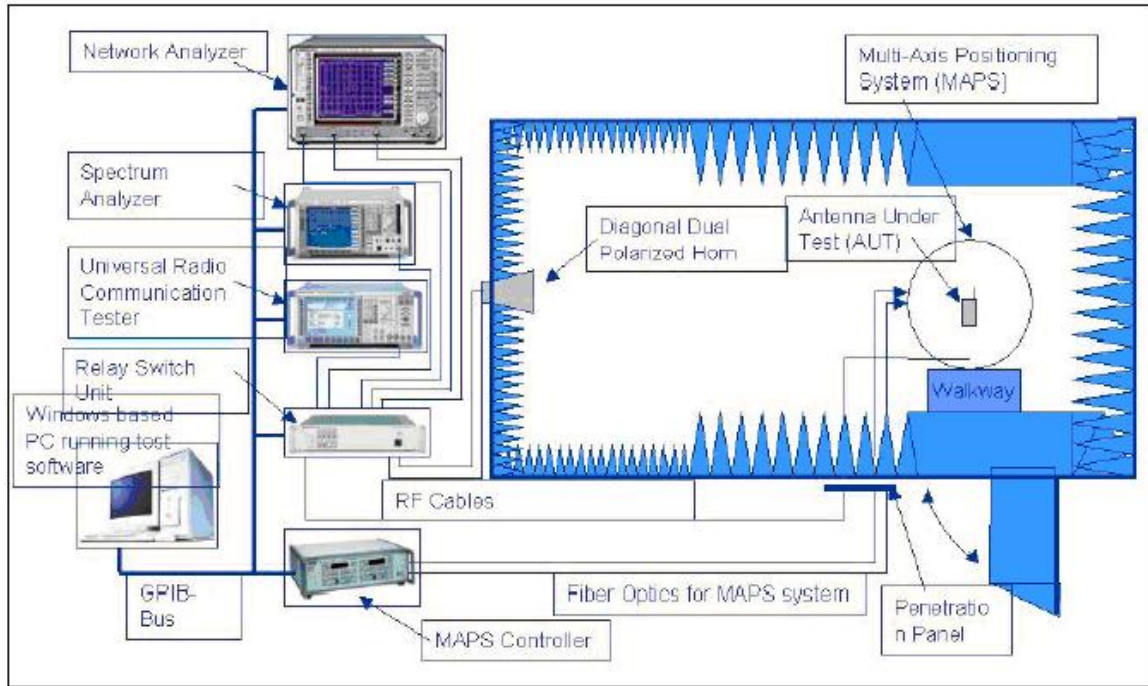
MicroPross NFC系统能满足各运行商测试要求, 对NFC设备进行快速性能测试, 并输出正式认证测试报告

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环境处理

无

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3. Mechanical Specification

3-1 Mechanical Configuration

3-1-1 Mechanical Configuration(WIFI2.4G/5G)

版本	说明	审核	日期	批准	日期

展开图

粉红色线为折弯线

立体图

环保要求:

MATERIAL	RoHS (PPM)
Cd	≤100
Pb	≤1000
Hg	≤1000
Cr6+	≤1000
PBB	≤1000
PBDE	≤1000

备注:

- 1.角度尺寸模具设计时依图纸尺寸作参照,样品及量产实配即可;
- 2.打"*"为严格控制尺寸(IQC必测等级A);
- 3.字符说明(采用宋体,要求字迹清晰,弹片无变形);
- 4.产品不能有油污、毛刺、利边、缺料、变形、压印过深等不良;
- 5.需通过48小时盐雾测试;
- 6.包装时需用吸塑盒整齐,运输过程中产品不能挤压碰撞等;
- 7.未通过ZTX公司确认,材料不能随意更改;

未注明公差	公差	单位	版本	比例	比例
5-10D	±0.08	mm	A1	1:1	0010003
5-10	±0.10	射深			001
10-35	±0.12	射深			1/1
35-50	±0.15	射深			WC0D(WIFI)
50-100	±0.18	射深			ZTX-QR-RD-029
100.00E	±0.20	射深			

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3-1-2 Mechanical Configuration(天线组件)

