SPECIFICATION

SHEET FOR APPROVAL

（Revision：R：A2）

	CUSTOMER(客户名称)	高盛达	
	CS P/N(客户机种)	WC0D	
	PART NAME(品名)	WIFI 天线组件	L=300mm
	FREQUENCY(频率)	2400-2500MHz / 5150-5850 MHz	
	ZTX NO.(物料编号)	2.00001341	
	DATE(日期)	2020-03-28	

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
		邹一麟	刘蒋军	

深圳市中天迅通信技术股份有限公司
SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

地址：深圳市宝安区石岩镇石龙大道 34 号(腾达工业园)　　邮编：518000
Address: No. 34, Shilong Avenue, Shiyan Town, Bao'an District, Shenzhen (Tengda Industrial Park)

电话：0755-27588320　　传真：0755-27588045　　http://www.chinaztx.com

Revision history

版本	日期	状态
A1	2017-08-30	首版
A2	2020-03-28	更新出货标签

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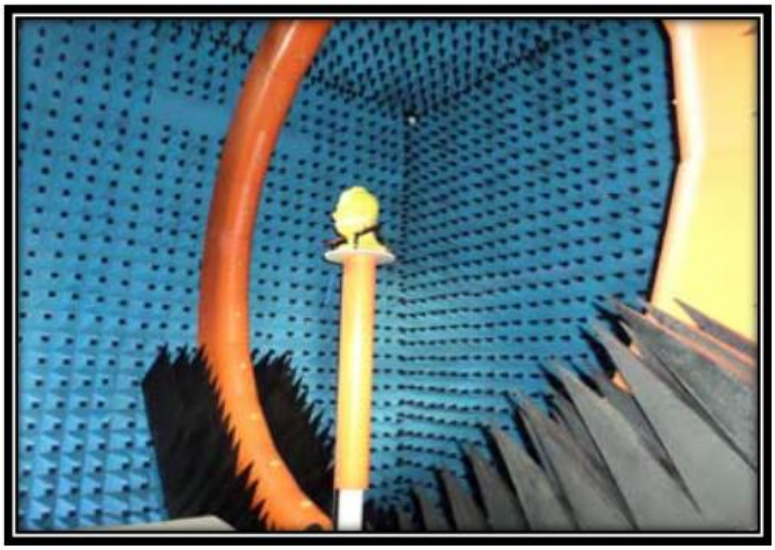
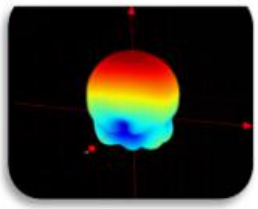
1. Test equipment

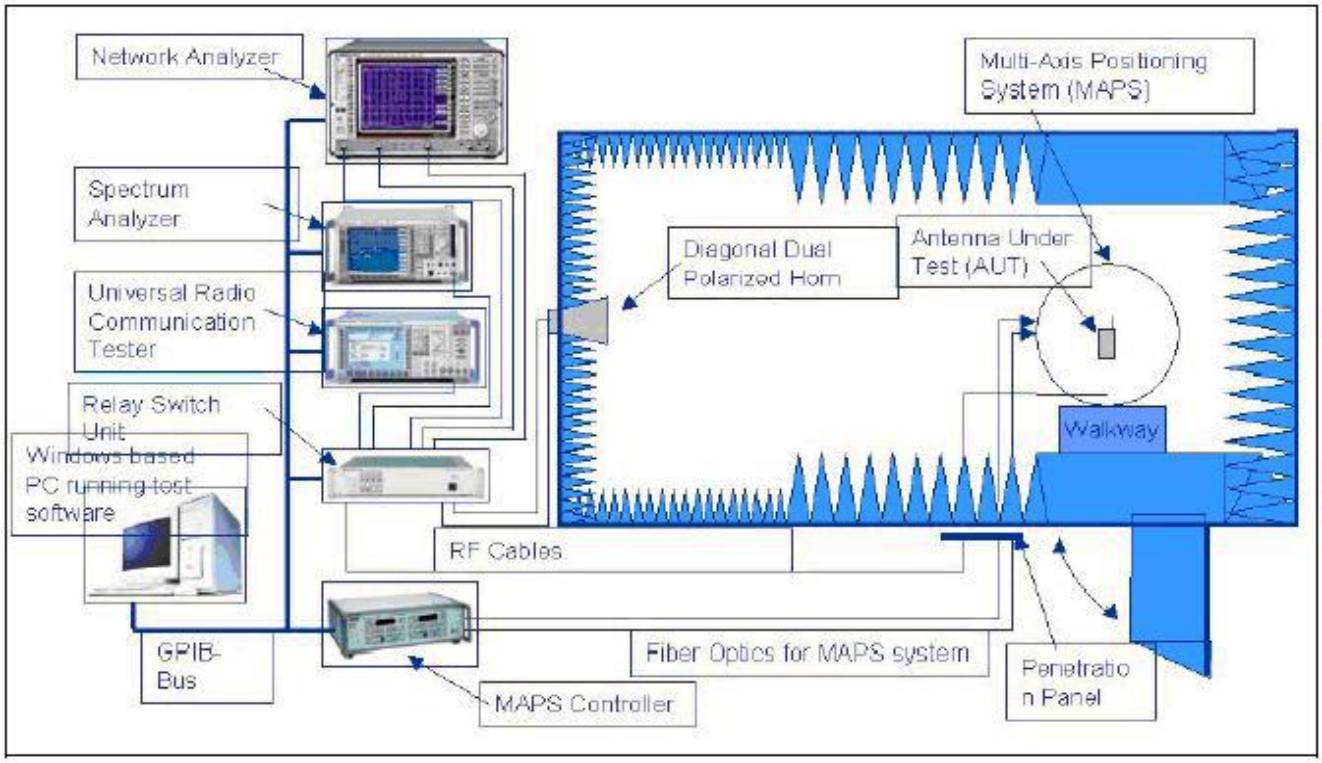




Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems（one in SHENZHEN, another one in Shanghai）, ETS OTA Standard test system，Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of GSM/CDMA/WCDMA/TD-SCDMA/LTE/WIFI/WLAN/WiMax/BT /GPS/MIMO/UWB within0.4-6G.



2. Electrical Specifications

2-1 Frequency Band

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

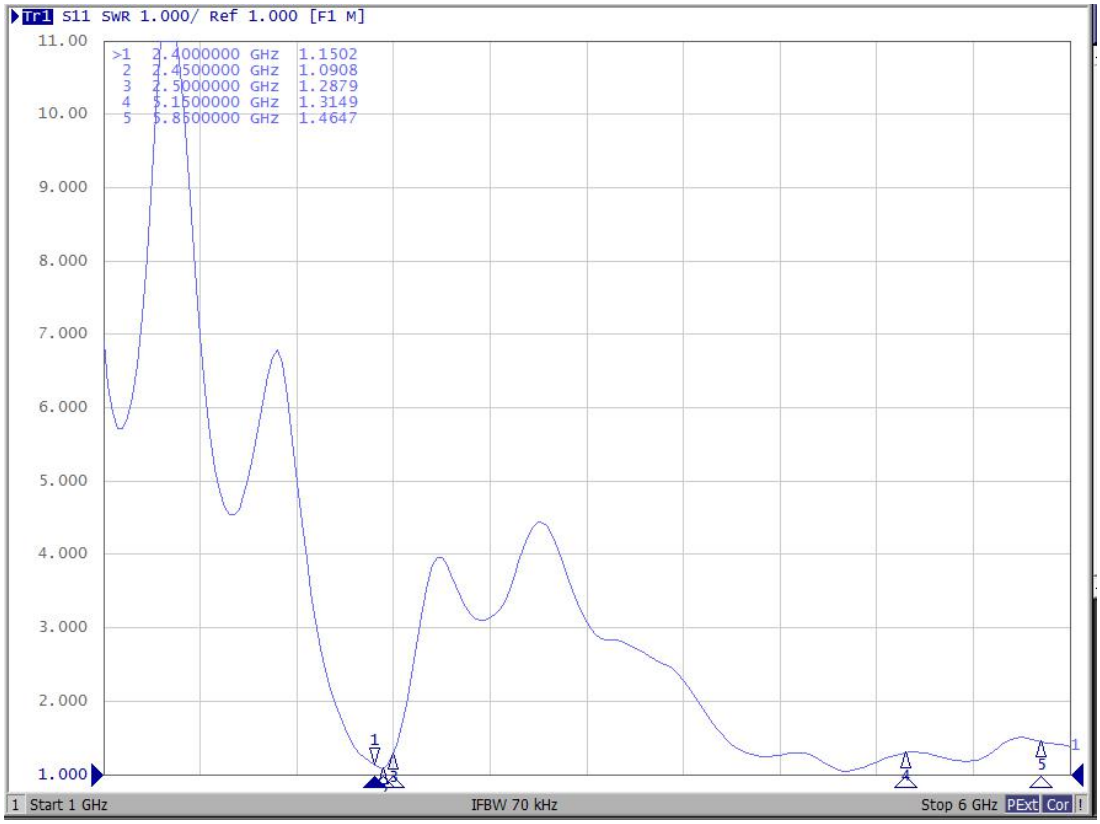
2-2 VSWR And GAIN

VSWR		**GAIN**	
Freq. Band	OPEN SPEC	**Band Freq.**	**OPEN SPEC**
2400MHz	**≦2.0**	2400MHz	**≧-1.0dBi**
2500MHz	**≦2.0**	2500MHz	**≧-1.0dBi**
5150MHz	**≦2.0**	5150MHz	**≧-1.0dBi**
5850MHz	**≦2.0**	5850MHz	**≧-1.0dBi**

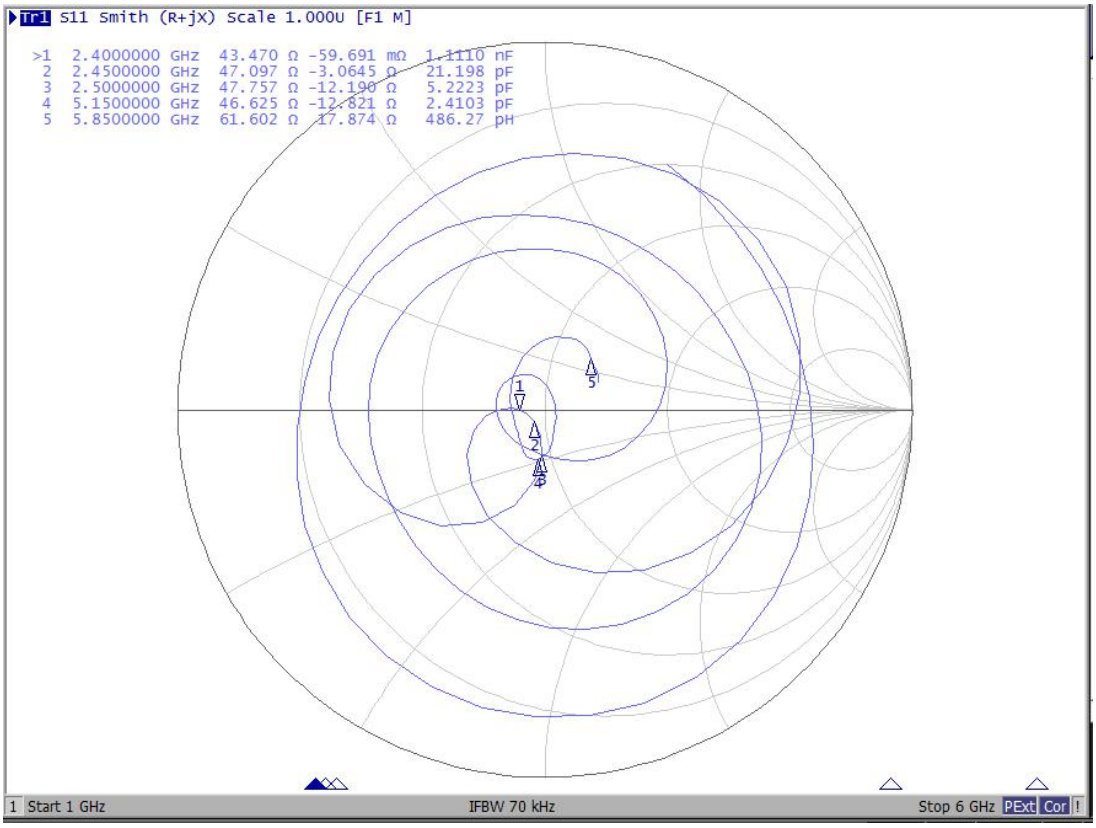
※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR.
※※All test value is done in customer approval fixture.

3.Antenna test data

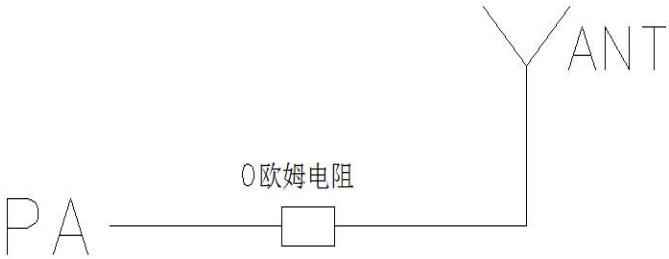
3-1 VSWR



3-2 Smith Chart



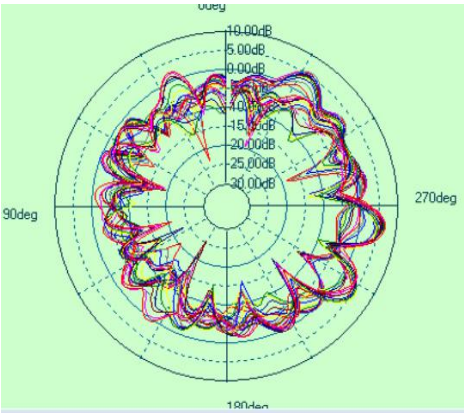
3-3 Matching circuit



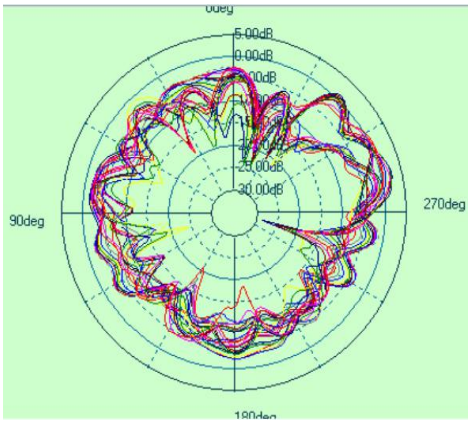
3-4 No-source test data

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

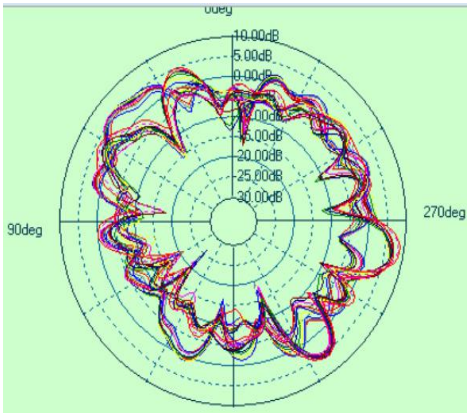
3-5 Directional drawing of horizontal plane of



Theta 90deg



Phi 0deg



Phi 90deg

Test standard:

Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-2021

Equipment list:

Equipment	Manufacturer	Model No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	2020.01.20	2022.01.19

Test Procedure

Test Step Flow

1. Maintain the test ambient temperature of 23t2 C, the instrument is powered on and preheated for more than 30 minutes
2. Tum 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 EMQuest OTA software, the test is complete, export the corresponding test diagram and test data, and save to the corresponding directory

Test Principle

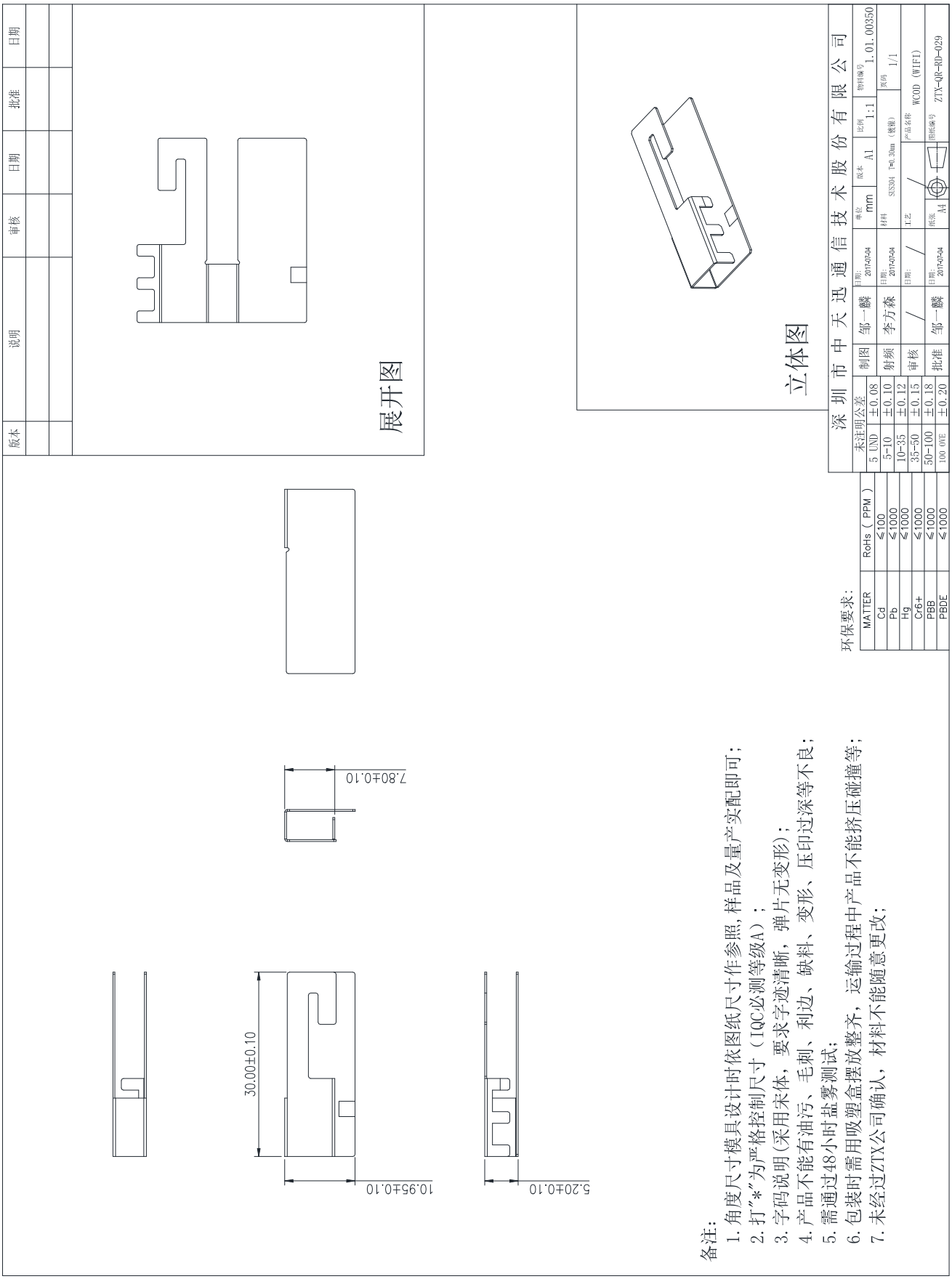
The test principle can be seen in accordance with the standard ANSI/IEEE std 149-2021

Test Conditions

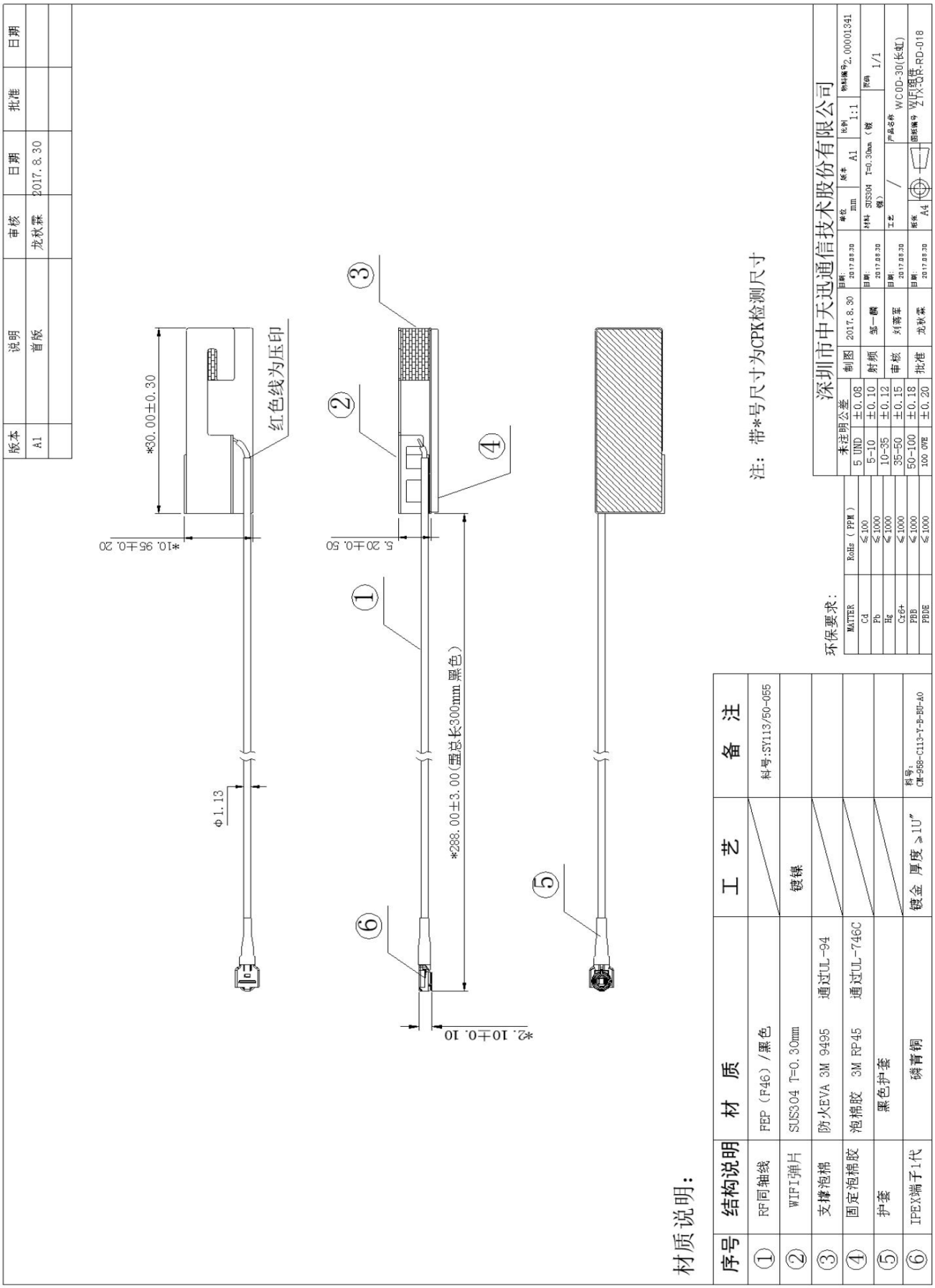
1.The analyte, the network analyzer for testing, the test equipment and the test cable connector should have good reliability, stability, dynamic range and measurement accuracy to ensure the correctness of the measurement accuracy
2. The measuring instrument should have a certificate of conformity and be within the effective calibration period
3. The analyte should be complete and undamaged, and the test environment should be kept clean

4. Mechanical Specification

4-1 Mechanical Configuration(WIFI2.4G/5.8G)



4-2 **Mechanical Configuration(天线组件)**



5. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
5-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +80 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed. The VSWR, Gain, Radiation Pattern must be met specifications after these test.
5-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	

6.Material list

序号	材料（原料）名称	第三方公证化学报告测试编号	第三方公证化学报告测试单位	第三方公证化学报告测试日期	状态	文档
1	SUS304	SZXEC1800784502	SGS	2019/5/23	有效	PDF
2	泡棉	C190319038001	SGS	2019/03/07	有效	PDF
3	3M 背胶	SHAEC1700965201	SGS	2019/3/25	有效	PDF
4	I-PEX	CANEC1907229906	SGS	2020/5/5	有效	PDF
		A2180247064101002	SGS	2019/12/17	有效	PDF
		A2180247064101001	SGS	2019/12/17	有效	PDF
		CE201876126	SGS	2019/8/6	有效	PDF
5	镀锡铜线	A2180105069201	CTI	2019/6/26	有效	PDF
6	热缩套管	CANEC1925862106	CTI	2020/06/02	有效	PDF

7.The packing way

深圳市中天迅通信技术股份有限公司
SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

包 装 规 范

产品名称	产品型号	文件编号	版本	工序序号/名称	工序工时	日产量
WIFI天线	WC0D-30(长虹)	ZTX-QD-WI-	A1	包装/装箱	/	/

P/N:	850186575
QTY:	40
Part Name:	R-Connecting line of RF WC0D/PIFA/2.4G+5G/ /300mm$WC0D/PIFA/2.4G+5G/ /300mm/
Supplier:	GaoShengDa RoHS

2020/3/27 18450 2662

图1：确认数量/橡皮筋包扎/贴标签

P/N:	850186575
QTY:	360
Part Name:	R-Connecting line of RF WC0D/PIFA/2.4G+5G/ /300mm$WC0D/PIFA/2.4G+5G/ /300mm/
Supplier:	GaoShengDa RoHS

2020/3/27 18450 2663

图2：装袋/贴标签

图4：贴现品票/封箱

P/N:	850186575
QTY:	720
Part Name:	R-Connecting line of RF WC0D/PIFA/2.4G+5G/ /300mm$WC0D/PIFA/2.4G+5G/ /300mm/
Supplier:	GaoShengDa RoHS

2020/3/27 18450 2664

图3：装箱/贴标签

作业方法（自检该工序作业合格后，方能流入下一道工序）

1. 每40pcs产品整齐、橡皮筋包扎，用PE开口胶袋包装,贴物料标签（打印内容P/N,QTY,Part Name,数量、周期，二维码等信息）；
2. 将独立包装好的产品，每9袋（360PCS)装入（36*28cm）PE封口胶袋中,贴物料标签（打印内容P/N,QTY,Part Name,数量、周期，二维码等信息）；
3. 装箱，纸箱规格（38*26*9cm）每小箱装2袋（720pcs）贴物料标签（打印内容P/N,QTY,Part Name,数量、周期，二维码等信息）；
4. 装箱，纸箱规格（45*32.5*42cm）每大箱装5小箱（3600pcs）尾数除外；
5. 外箱的右上角贴合格证，标签内容包括（供货厂家，长虹物料代码，物资名称，型号规格，订单号，订单总数量，数量，箱号/箱数，市场日期，净重/毛重，加盖检验合格章，VENDOR,QTY,PART DESC等信息；）不可有漏写，写错现象；
6. 箱子用胶纸以“工”字型封箱。

注意事项：

注意标签有无贴错，漏贴，箱子有无破损；
物料标签内容及格式按（长虹）要求。

物料名称	物料编码	用量	规格尺寸
PE开口袋		90	240*160mm
PE封口袋		15	360*280mm
橡皮筋		90	
纸箱		5	38*26*9cm
纸箱		1	45*32.5*42cm
小标签			70*50mm
内外箱标签			100*80mm
外箱条码标			100*50mm

版本	修订内容	修订日期	修订人
A2	更新（长虹）专用出货标签	2020/3/28	陈章文

制订	邹一麟	审核	易爱玲	品质确认	胡春梅	批准	龙秋霖

深圳市中天迅通信技术股份有限公司
SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

附页：出货标签模板

[1] Y001
TYJ-202003
20-03-28 09:11:48

合格证 RoHS

供货厂家	惠州高盛达科技有限公司(18450)		
长虹物料代码	850186575	供方物料代码	
物资名称	R-射频连接线	型号规格	WC0D/PIFA/2.4G+5G/外拉/300mm$WC0D/PIFA/2.4G+5G/外拉/300mm/长虹
订单号	4502587576	订单总数量	95000
数量	3600	箱号/箱数	第18箱(包),共10箱(包)
生产日期 供方批次	2020/3/28	净重/毛重	11.12KG / 11.9KG
检验员	1	备注	
盖检验合格章			

PN: G. 5. 13. WC0DXXBXBX
LOT NO:1205-1905060006 Date Code:200327
VENDOR: ZTX
QTY: 3600
REEL NO: 201004420032790000
PART DESC: WC0D-30(长虹) WIFI天线组件
深圳市中天迅通信技术股份有限公司

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Part Name:	R-Connecting line of RF WC0D/PIFA/2.4G+5G/ /300mm$WC0D/PIFA/2.4G+5G/ /300mm/
Supplier:	GaoShengDa RoHS

2020/3/27 18450 2662