

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

	CUSTOMER(客户名称)	惠科	
	CS P/N(客户机种)	MB15B2F	T15B2
	PART NAME(品名)	WIFI ANT	外露线长 L=108mm
	FREQUENCY(频率)	2.4G~2.5GHz+5.15~5.85G	
	ZTX NO.(物料编号)	2.00005723	
	DATE(日期)	2022-08-09	

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	QA CHECKED
		赖宁平	杨显堂	



深圳市中天迅通信技术有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

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ANTENNA SPECIFICATION

CUS.P/N :MB15B2F WIFI 天线

Application Date:AUG,09, 2022

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Ace P/N : MB15B2F WIFI 天线

Editor:

Page 2 of 11

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (WIFI 天线组件)	3
	1-2	Mechanical Specification (WIFI 天线)	4
	1-3	Mechanical Specification (RF 端子)	5
2		Test equipment	6
3		Antenna test data	7
	3-1	VSWR	7
	3-2	No-source test data	7
	3-3	Environment treatment	7
	3-4	Directional drawing of horizontal plane of&3D radiation drawing	8~9
	3-5	实物照片	9
4		Wire specification	10
5		Environment Characteristic	11



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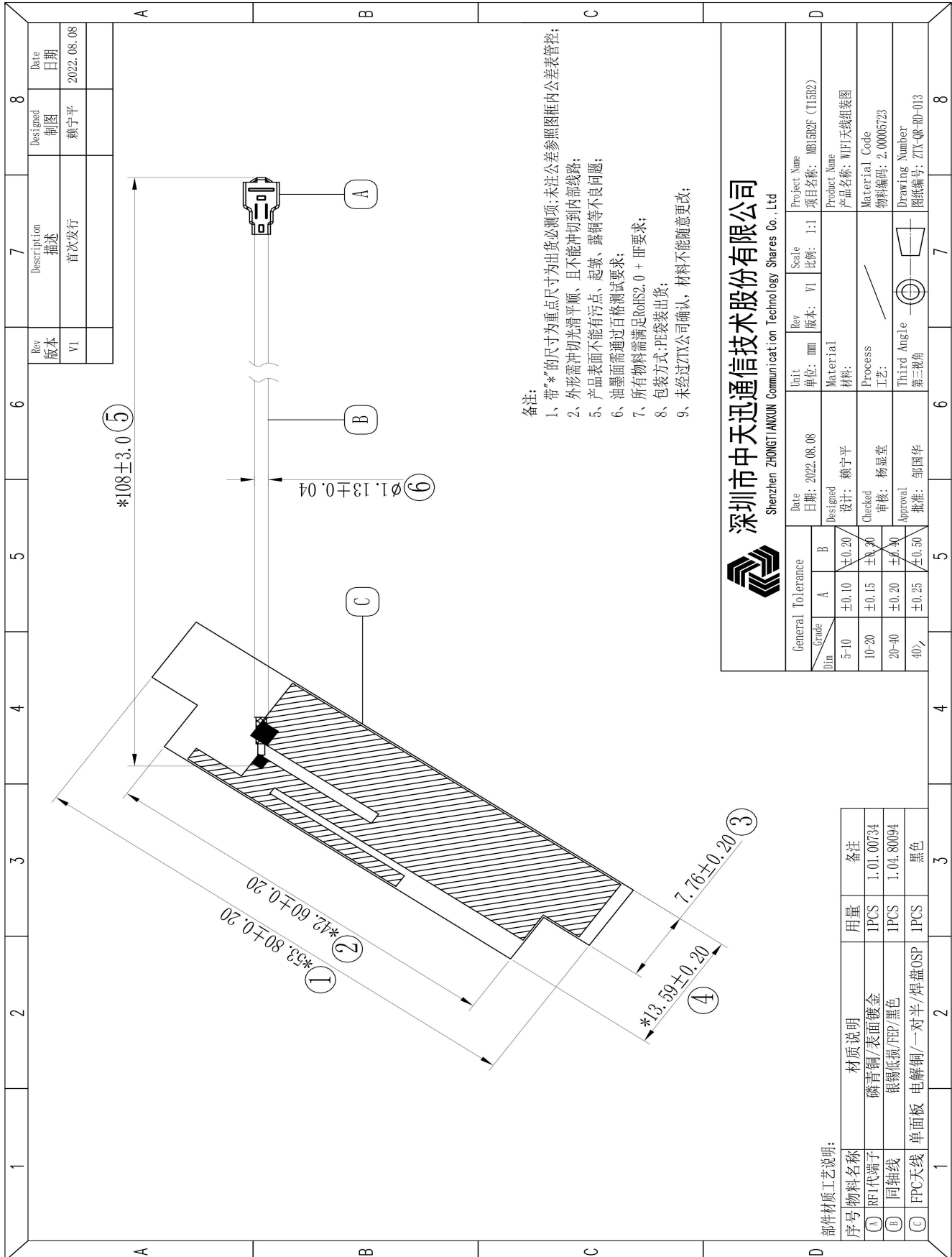
Ace P/N : MB15B2F WIFI 天线

Editor:

Page 3 of 11

1.Mechanical Specification

1-1 Mechanical Configuration(WIFI 天线组件)



ANTENNA SPECIFICATION

CUS.P/N :MB15B2F WIFI 天线

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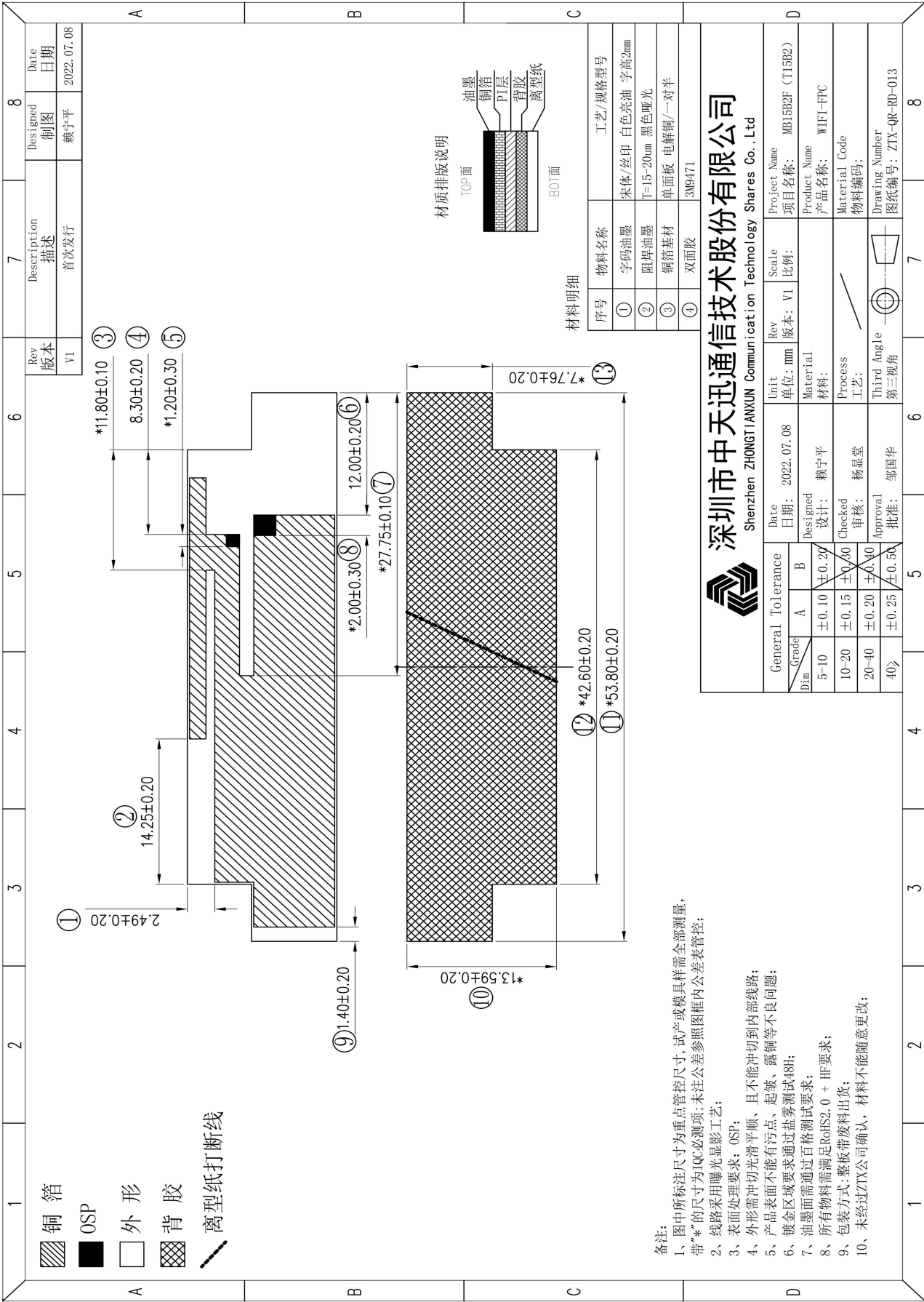
Rev: R:A0

Ace P/N : MB15B2F WIFI 天线

Editor:

Page 4 of 11

1-2 Mechanical Configuration(WIFI 天线)



深圳市中天迅通信科技股份有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

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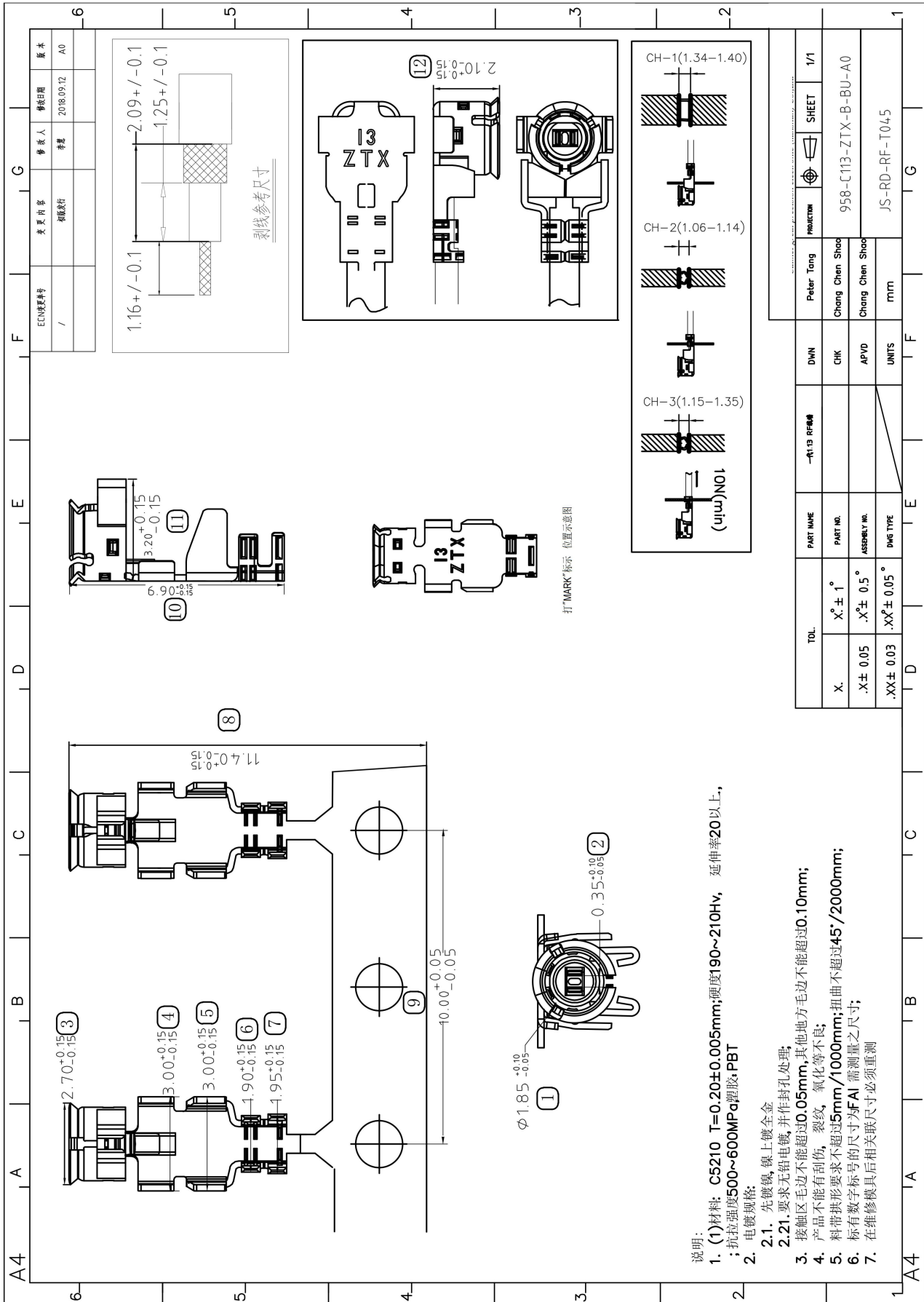
Rev: R:A0

Ace P/N : MB15B2F WIFI 天线

Editor:

Page 5 of 11

1-3 Mechanical Configuration(RF 端子)



ANTENNA SPECIFICATION

CUS.P/N :MB15B2F WIFI 天线

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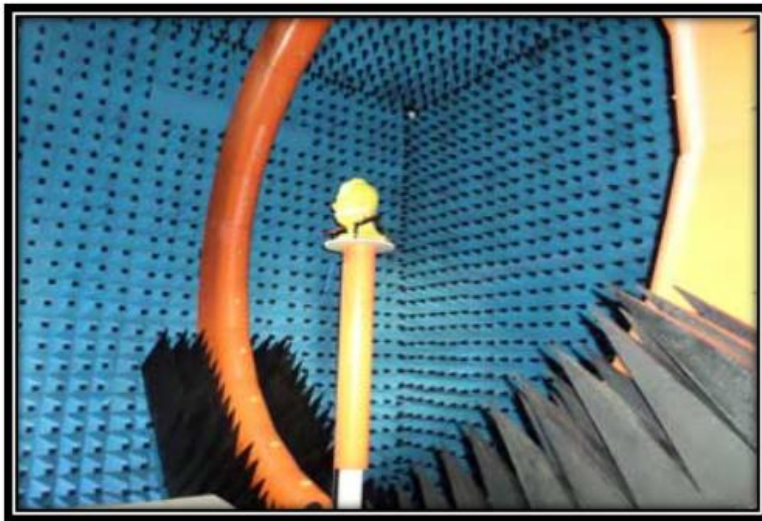
Rev: R:A0

Ace P/N : MB15B2F WIFI 天线

Editor:

Page 6 of 11

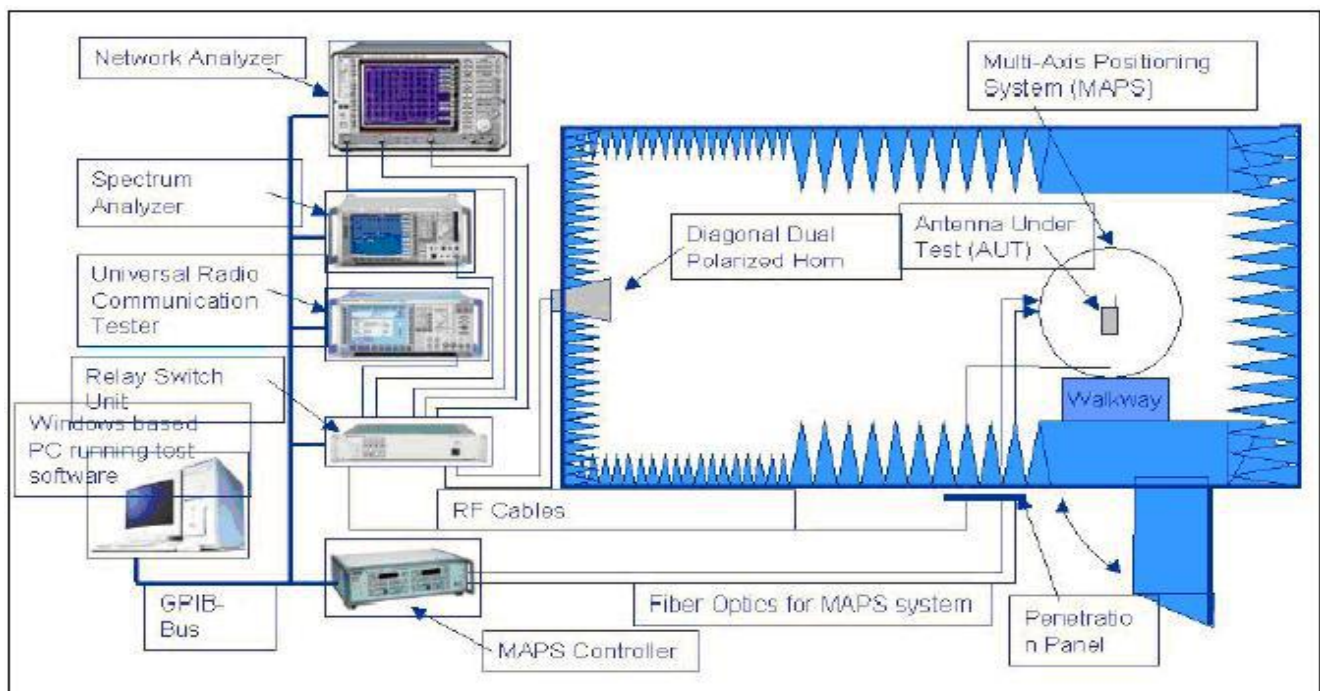
2. Test equipment



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 within 0.4-6G.



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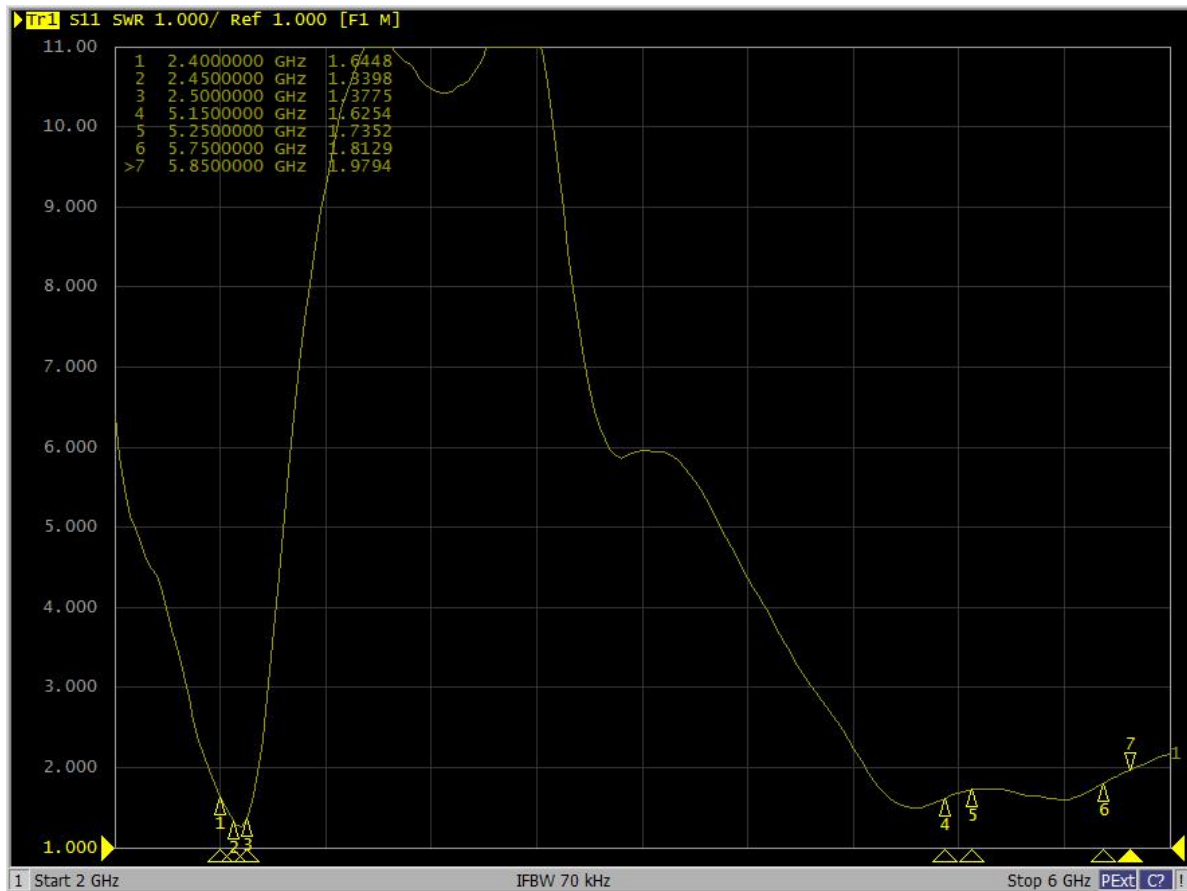
Ace P/N : MB15B2F WIFI 天线

Editor:

Page 7 of 11

3.Antenna test data

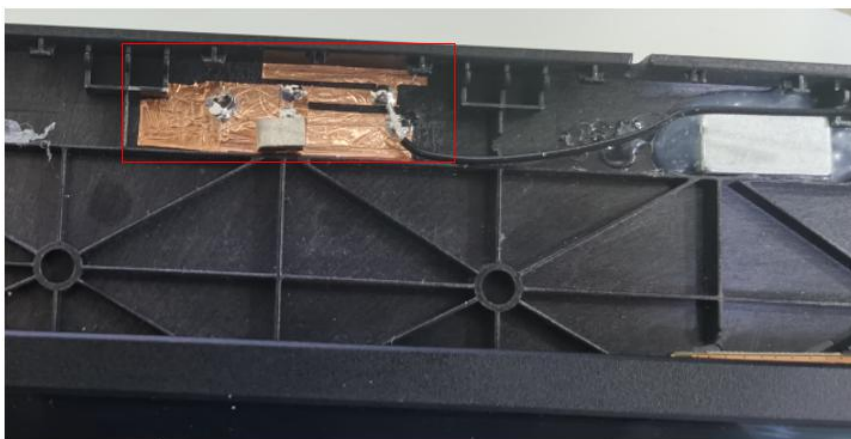
3-1 VSWR



3-2 No-source test data

Frequency (MHz)	2400	2450	2500	5150	5450	5850
Efficiency (dB)	-3.07	-3.12	-3.15	-3.58	-3.57	-3.67
Efficiency (%)	49	49	48	44	44	43
Gain (dBi)	4.19	4.64	4.71	4.03	3.47	4.15

3-3 Environment treatment



天线位置如图所示



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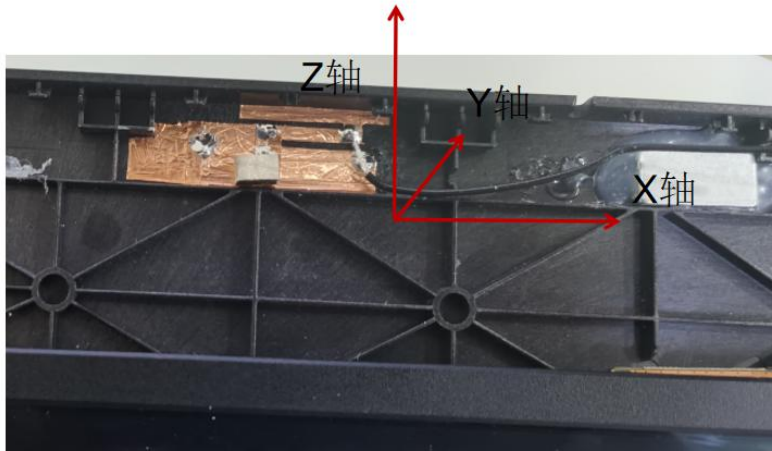
Rev: R:A0

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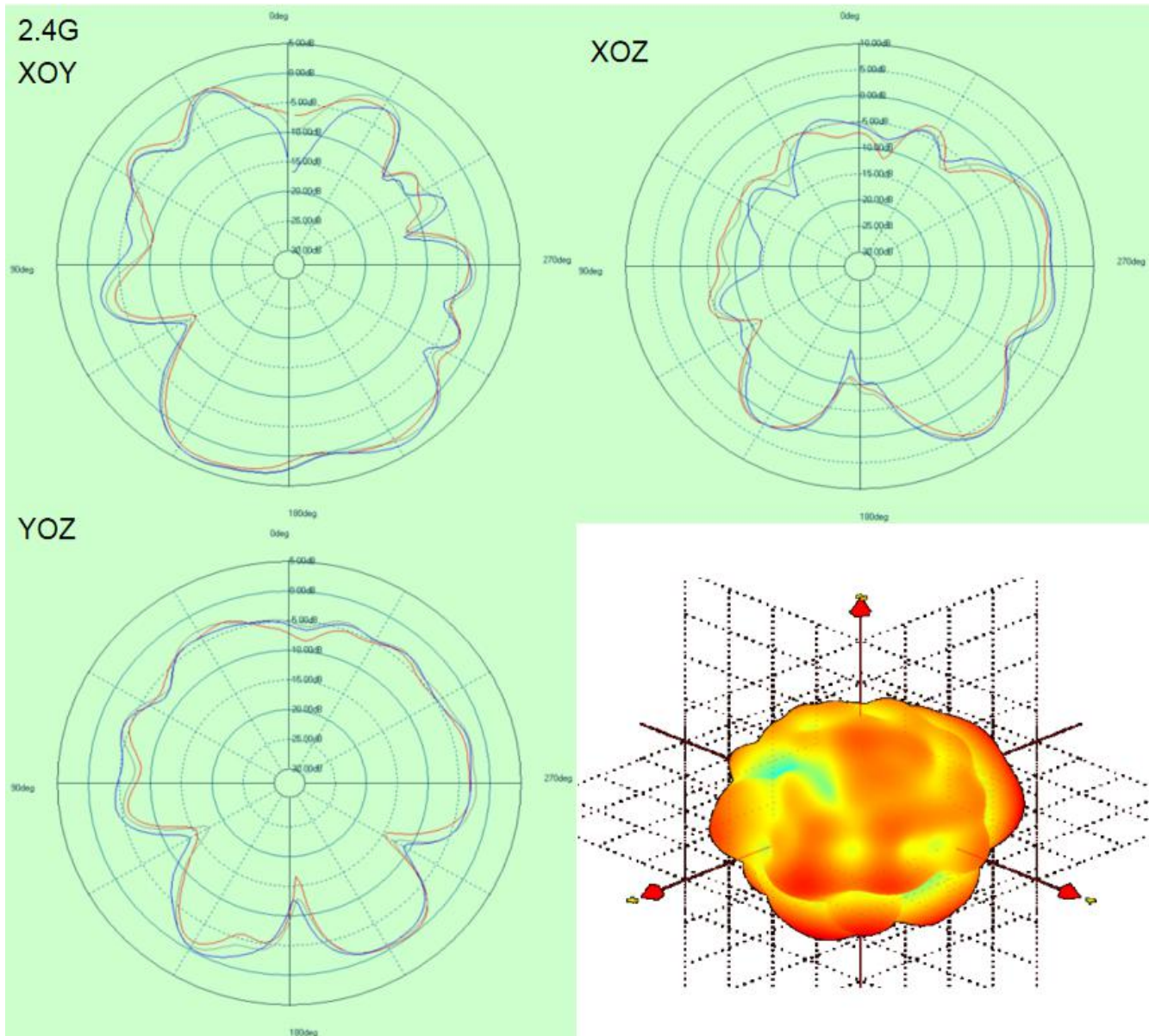
Editor:

Page 8 of 11

3-4 Directional drawing of horizontal plane of&3D radiation drawing



- X轴指平行于屏幕向右
- Y轴指垂直屏幕向后
- Z轴指垂直向上



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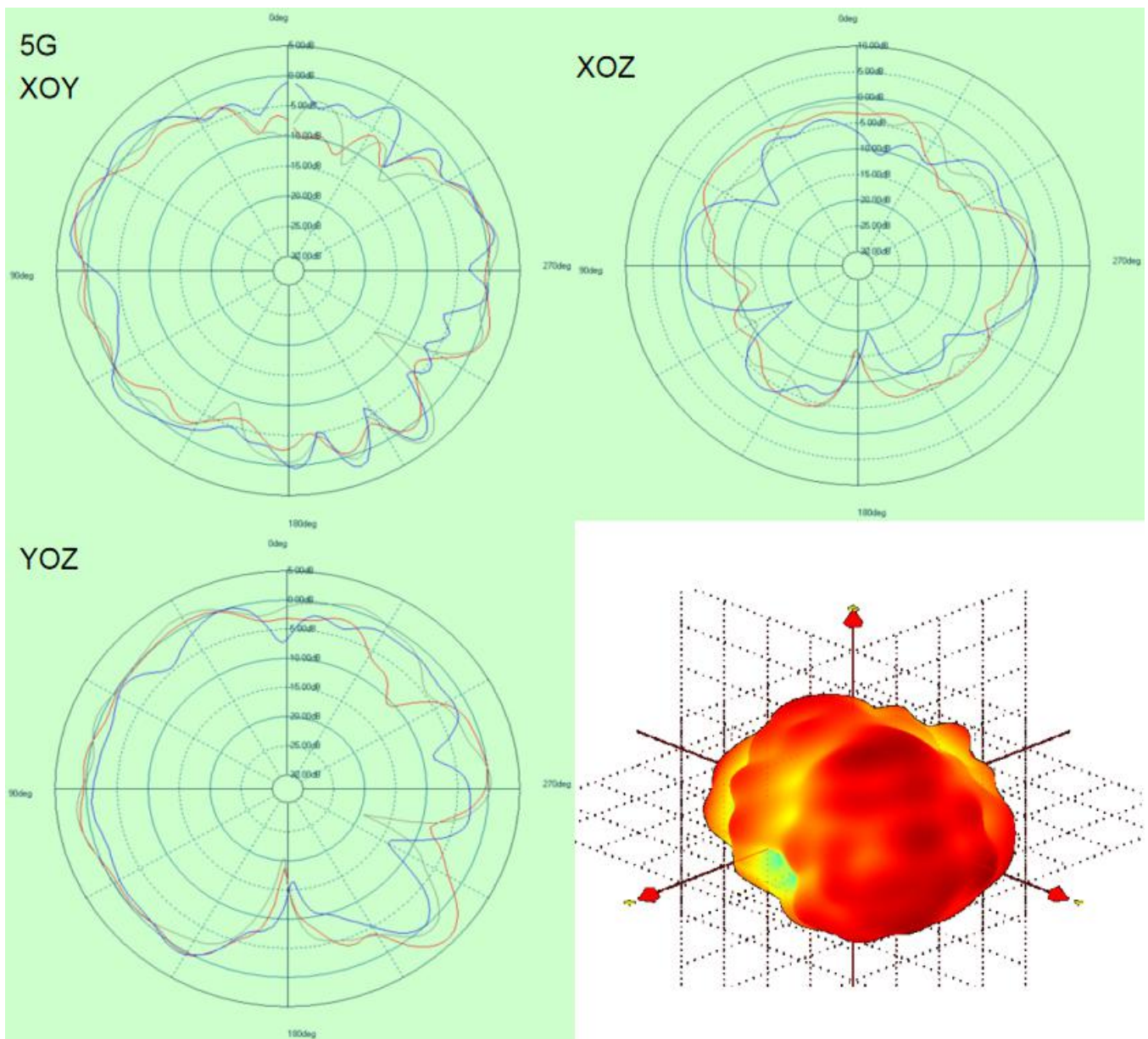
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Rev: R:A0

Ace P/N : MB15B2F WIFI 天线

Editor:

Page 9 of 11



3-5 实物图片



ANTENNA SPECIFICATION

CUS.P/N :MB15B2F WIFI 天线

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Rev: R:A0

Ace P/N : MB15B2F WIFI 天线

Editor:

Page 10 of 11

4.Wire specification

单位/Unit:mm

项目/Item		详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver plated Copper
	构成(根/mm)/Composition(No. /mm)	7/0.08±0.005
	标称直径/NOM. O. D	0.24±0.01
绝缘层 /Insulation	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	0.73±0.03
	颜色/Color	Natural
包带/Tape	材料/Material	Copper PET Tape
编织层/Braid Shield	材料/Material	镀锡铜线 Tinned copper
	构成/Composition	16/4/0.05±0.005
	遮蔽率/ Shielding rate	≥90%
	标称直径/NOM. O. D	0.98±0.03
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	1.15±0.05
	颜色/Color	/

3. 电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50±3.0	
耐压强度/Dielectric Strength	A. C V/1min	1000	
最大工作频率/Max. oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm ²	1.76	
工作温度范围/Operating Temp.	℃	-55to200	
衰减/Attenuation	/	频率 /Frequency (MHz)	dB/1m
		1000	≤1.75
		2000	≤2.57
		3000	≤3.17
		4000	≤3.6
		5000	≤4.24
		6000	≤4.7
驻波比/Standing wave(0-6GHz)	/	≤1.4	



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Page 11 of 11

5.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
5-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
5-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

