

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	Tianjin HualTechnology Co., LTD	
	CS P/N(客户机种)	网关 (A304-029F)	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2.4G~2.5G	
	ZTX NO.(物料编号)	2.00004878	
	DATE(日期)	2021-01-22	

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				
MANAGE CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Liuli ping	Zou yi	



深圳市中天迅通信技术股份有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

Address: No.34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen, (Tengda Industrial Park) 518000

Tel.: 0755-27588320

Fax: 0755-27588045

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021

Rev: R:A1

ZTX P/N :网关 (A304-029F) WIFI Antenna

Editor:

Page 1 of 8

Revision history

NO	Date	State
A1	2022-01-22	The first edition



ANTENNA SPECIFICATION

CUS P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021

Rev: R:A1

ZTX P/N :网关 (A304-029F) WIFI Antenna

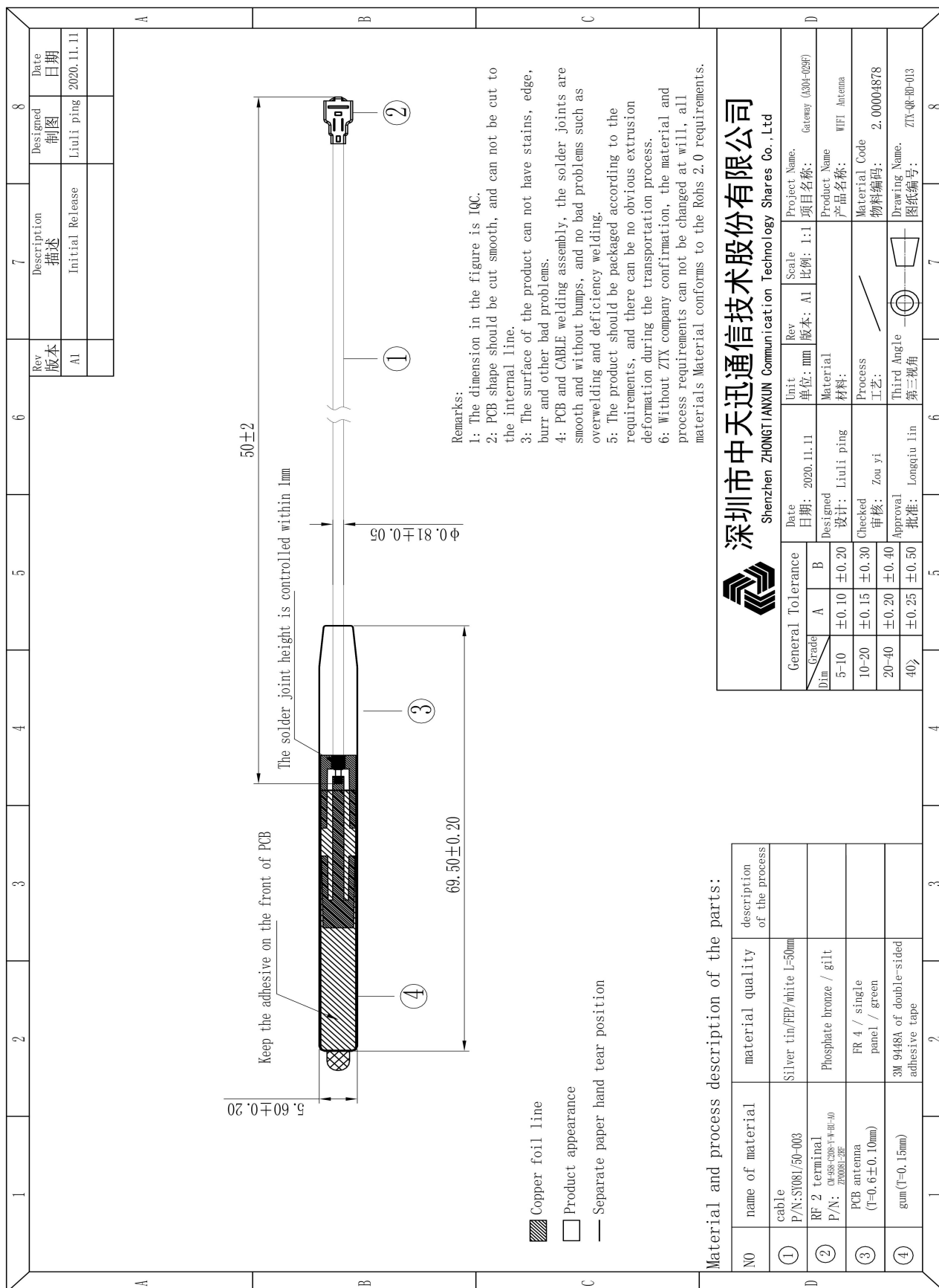
Editor:

Page 2 of 8

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification(WIFI Antenna)	3
2		Antenna test data	4
	2-1	VSWR&Return loss plot&Smith Chart	4
	2-2	No-source test data	4
	2-3	Matching circuit	5
	2-4	Environment treatment	5
	2-5	2D/3D Radiation Pattern Results	5
3		Test Report	6
4		Salt-Spray test	7
5		Environment Characteristic	8





ANTENNA SPECIFICATION

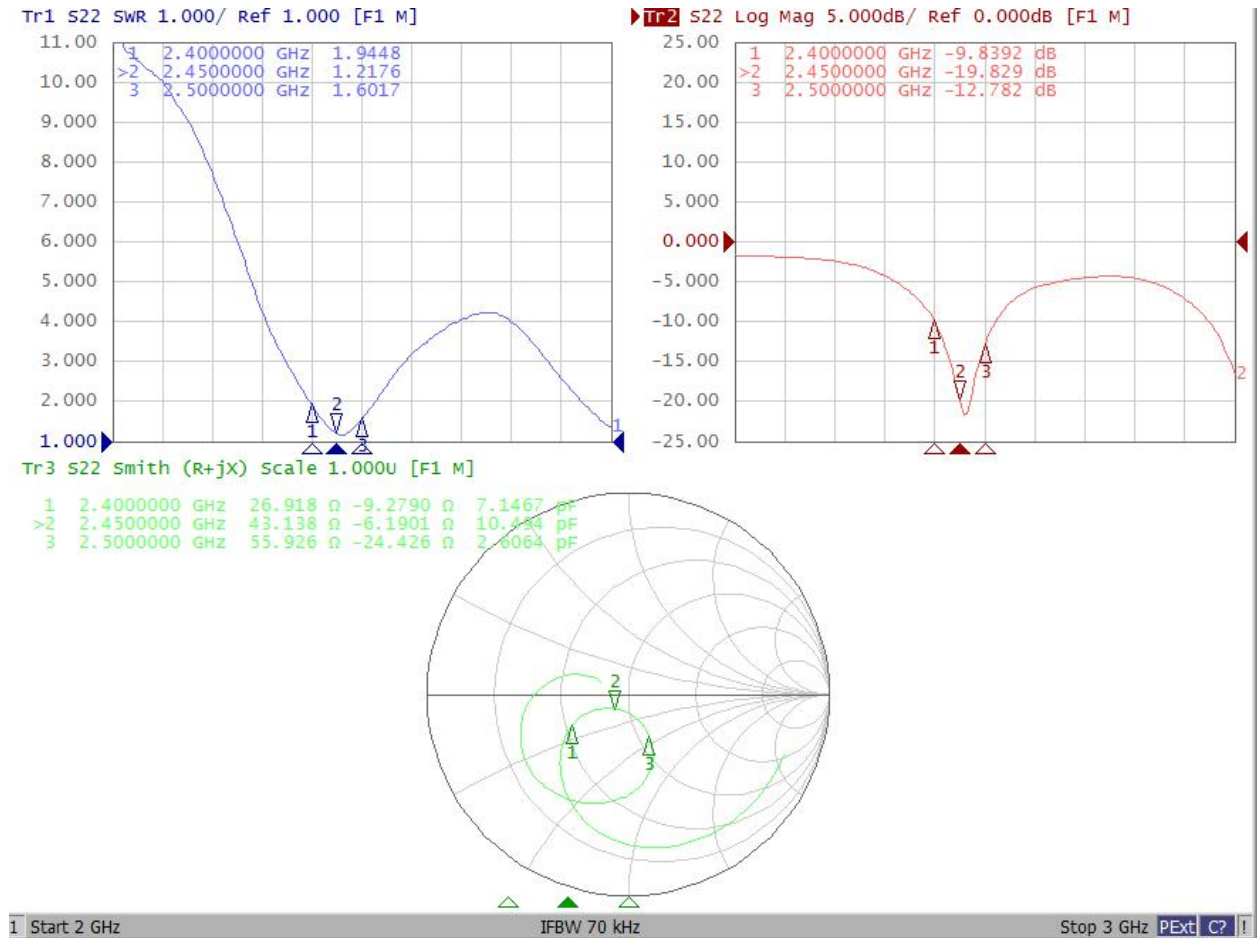
CUS P/N :网关 (A304-029F) WIFI Antenna
ZTX P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021
Editor:

Rev: R:A1
Page 4 of 8

2.Antenna test data

2-1 VSWR&Return loss plot&Smith Chart



2-2 No-source test data

Frequency	Efficiency	Efficiency (dB)	Gain (dB)
2400	66%	-1.8	1.6
2410	66%	-1.8	1.8
2420	66%	-1.8	1.9
2430	67%	-1.8	2.1
2440	68%	-1.6	1.9
2450	67%	-1.7	1.9
2460	66%	-1.8	1.9
2470	67%	-1.8	2.1
2480	65%	-1.9	2.2
2490	63%	-2.0	2.2
2500	62%	-2.1	2.2



ANTENNA SPECIFICATION

CUS P/N :网关 (A304-029F) WIFI Antenna
ZTX P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021
Editor:

Rev: R:A1
Page 5 of 8

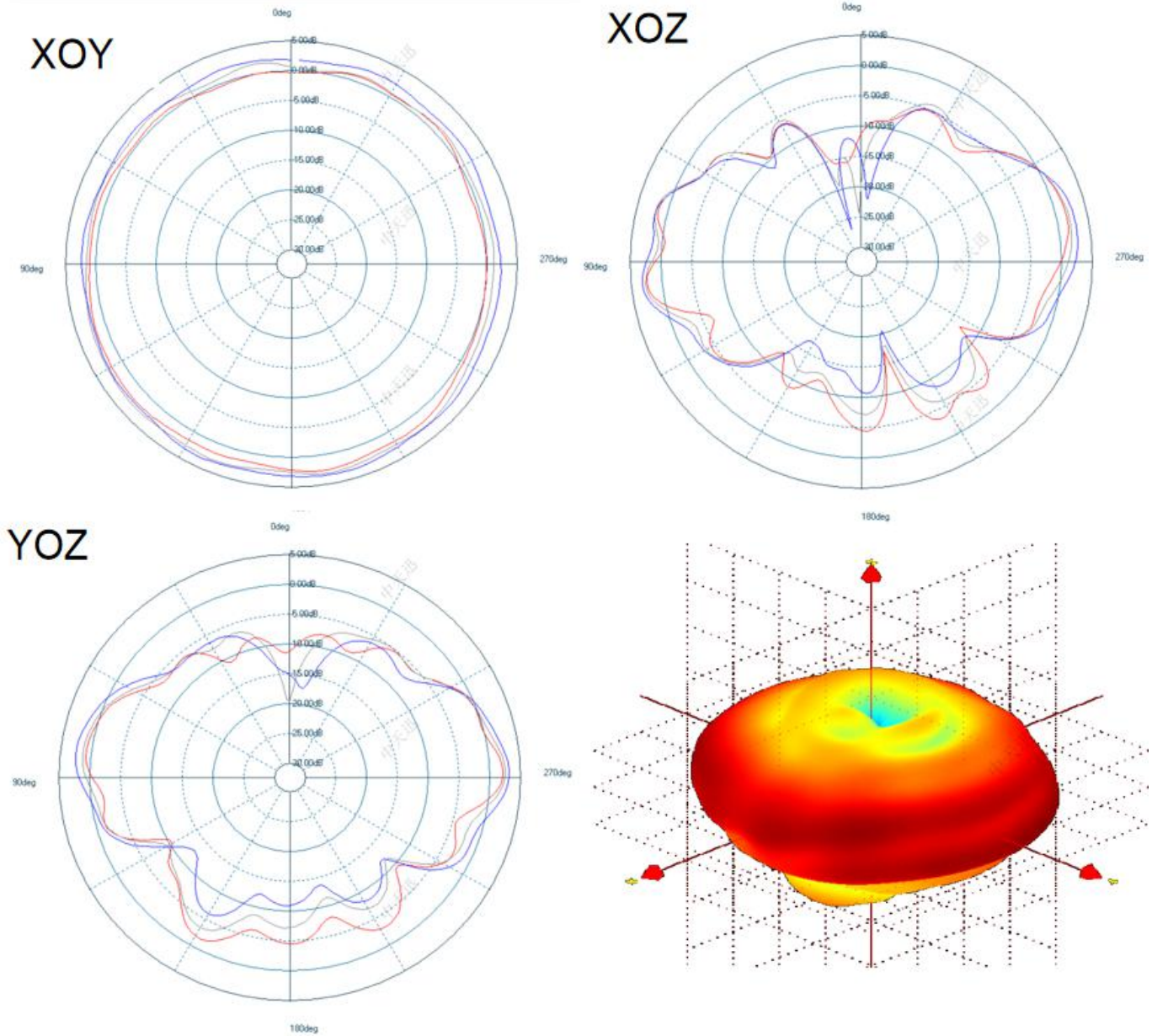
2-3 Matching circuit

N/A

2-4 Environment treatment

N/A

2-5 2D/3D Radiation Pattern Results



ANTENNA SPECIFICATION

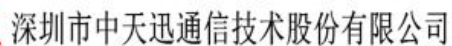
ApplicationDate:Jan,22,2021

Rev: R:A1

Editor:

Page 6 of 8

3. Test Report



SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

Sample test report

[illegible]

Form number : ZTX-QR-QA-016 Version: A:



SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd.

ANTENNA SPECIFICATION

CUS P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021

Rev: R:A1

ZTX P/N :网关 (A304-029F) WIFI Antenna

Editor:

Page 7 of 8

4.Salt-Spray test

customer name	Tianjin Hualai	product name	Gateway (A304-029F) WIFI Antenna	date	2020/11/11
Product material	RF 2 terminal	proving time	48H	quantity	5PCS
time quantum	test condition	test criteria		bear fruit	Remarks
0-6 Hours	Salt spray tester: salt liquid: NaCl (no water); concentration 5% $\pm$ 1%; pH value: 6.5~7.2; laboratory temperature: 32-38°C; compressed air pressure: 1.0 $\pm$ 0.01 (KG / M2) Spray amount: 1.0~2.0ML/80CM2/H. Relative humidity: 85% $\pm$ 2%; placement angle of test product: 30 degrees + / -10 degrees; salt spray duration: 48h,	Product surface without rust point, oxidation, corrosion, coating (coating) layer off and other adverse phenomena		OK	2020. 11. 09 16:00 AM beginning
6-12 Hours					
12-18 Hours					
18-24 Hours					
24-30 Hours					2020. 11. 11 16:00 AM stop
30-36 Hours					
36-42 Hours					
42-48 Hours					
More than 48 hours	The product surface without rust point, oxidation, corrosion, coating (coating) layer off 1% of the product area				
conclusion	Salt Spray Test OK				
test clerk	Li Qingli	examine and verify	Yi Ailing	Ratify	Hu Chunmei



ANTENNA SPECIFICATION

CUS P/N :网关 (A304-029F) WIFI Antenna

ApplicationDate:Jan,22,2021

Rev: R:A1

ZTX P/N :网关 (A304-029F) WIFI Antenna

Editor:

Page 8 of 8

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.

