MATERIAL FOR APPROVAL

Number：LM-QR-QA-024 V1.0

PROVIDER:	Shenzhen Zhongtian Xun communication technology co., ltd		
DESCRIPTION:	IPEX\FPC\2.4-2.5GHz\>0dBi\50Ω \65mm\100MHz\NPD1120MOT01\22.1*19.8mm		
BRAND (P/N) :	2.00005014		
Lumi material number:	1150678		
Version information:	A1		
APPROVAL TYPE:	☑A.New material ☐B.Substitute material ☐C.Temporary sample		
DATE	2021-03-03		
Supplier countersignature	Structure/Electron	Quality	Approve
	We Yingju Nongjiajuan	Hu Chunmei	Liu jiangjun

Green rice recognition column					
countersignature					confirm
structure☐	ID☐	package☐	hardware☐	quality☐	

SPECIFICATION

SHEET FOR APPROVAL

（Revision：R：A1）

	CUSTOMER	Lumi United Technology Co., Ltd	
	CS P/N	Roller Shade Driver E1	
	PART NAME	Zigbee Antenna	
	FREQUENCY	2400~2500MHz	
	ZTX NO.	2.00005014	
	DATE	2021-03-03	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark：

Sign(Customer confirmation, signature and seal)：_____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Wei yingjun	Nonglinjuan	

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) postcode：518000

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Revision history

version	date	condition
A1	2021-03-03	First edition

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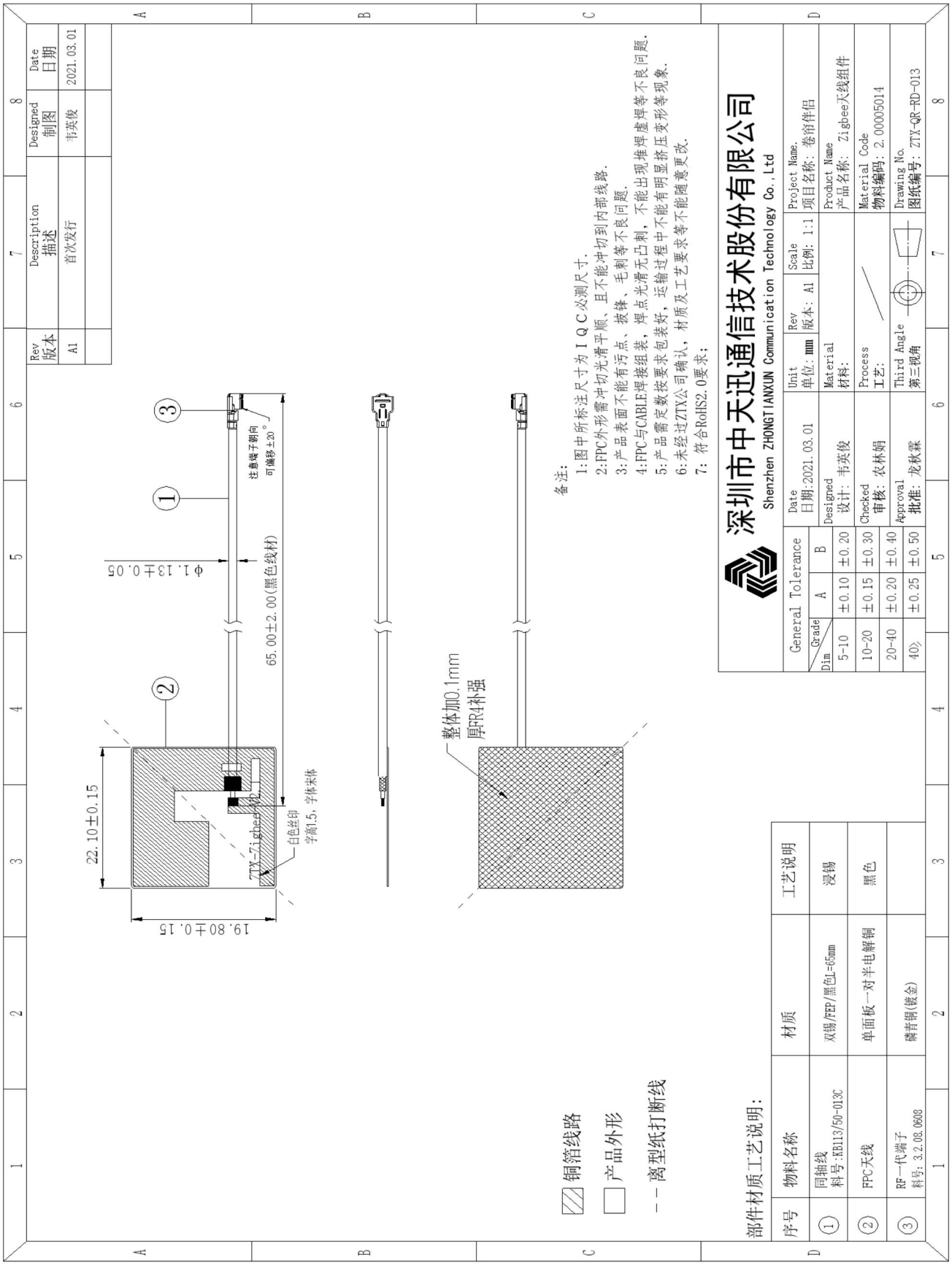
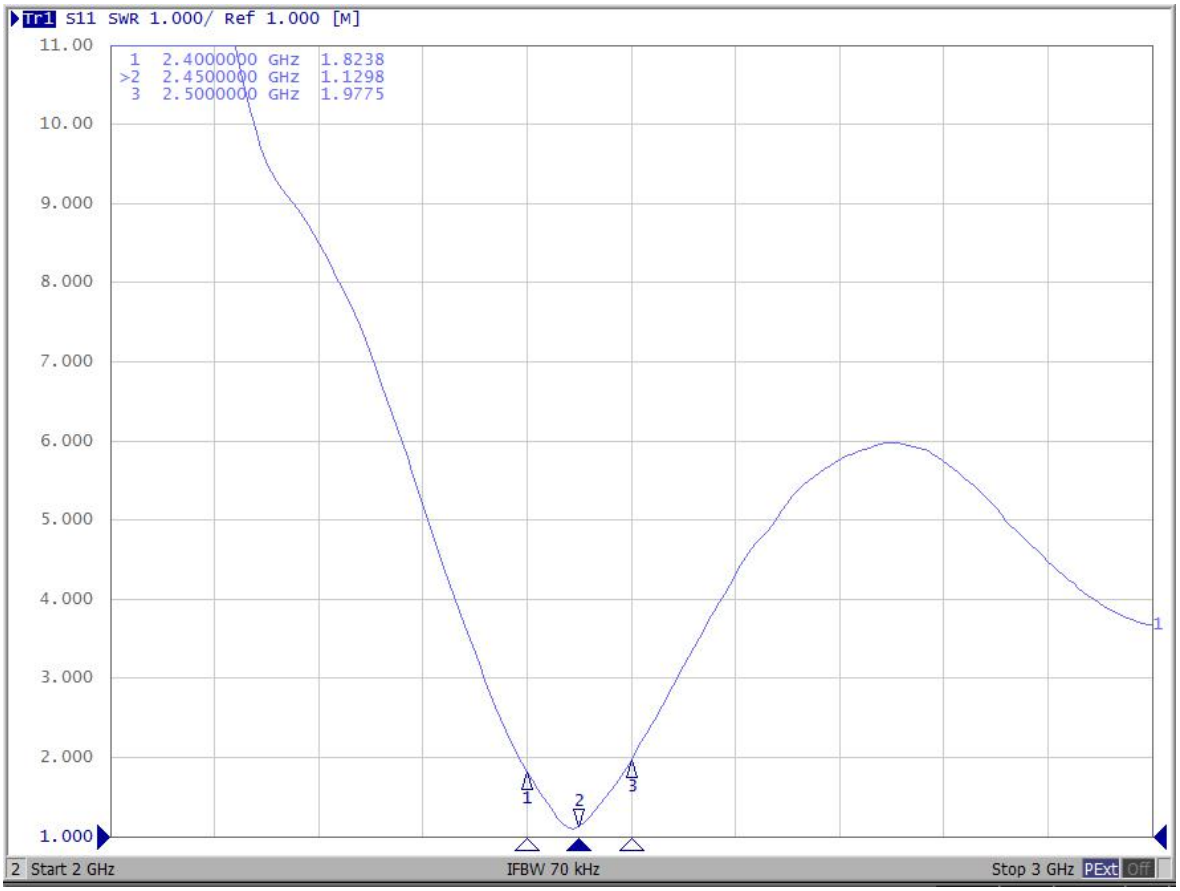
1. Mechanical Specification

1-1 Mechanical Configuration（Zigbee Antenna）



2.Antenna test data

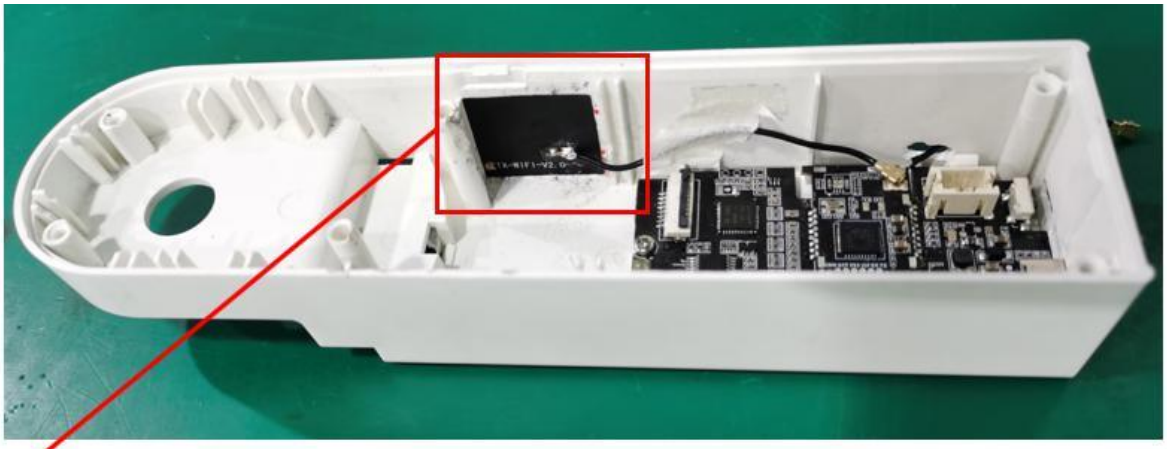
2-1 VSWR



2-2 No-source test data

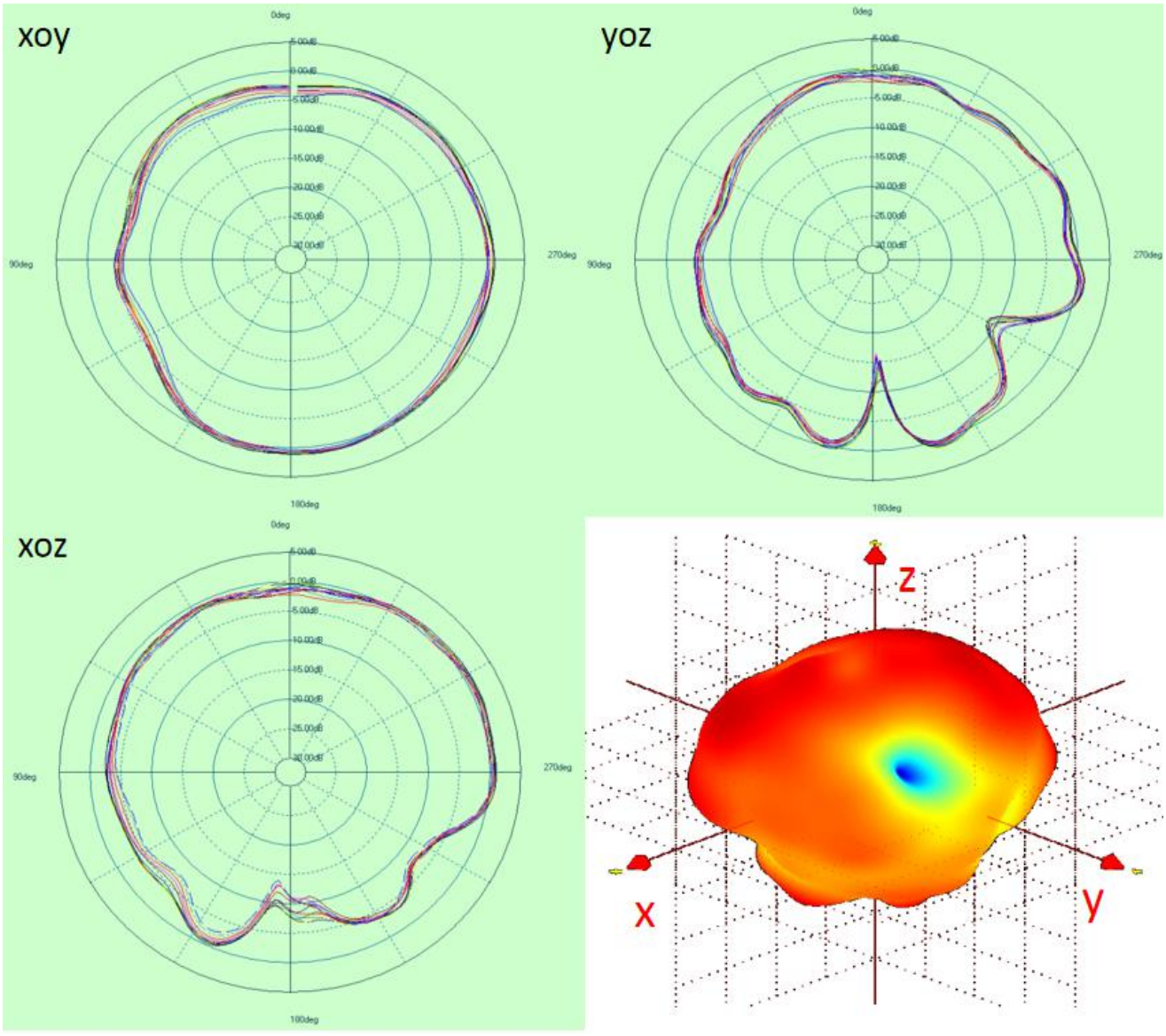
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2400000000	52%	-2.85	2400000000	0.81
2410000000	56%	-2.56	2410000000	0.94
2420000000	59%	-2.29	2420000000	1.17
2430000000	62%	-2.08	2430000000	1.63
2440000000	63%	-2.04	2440000000	1.69
2450000000	64%	-1.97	2450000000	1.75
2460000000	61%	-2.17	2460000000	1.20
2470000000	62%	-2.11	2470000000	1.29
2480000000	59%	-2.31	2480000000	1.23
2490000000	57%	-2.44	2490000000	1.24
2500000000	53%	-2.73	2500000000	0.87

2-3 Environment treatment



Location of antenna

2-4 Directional drawing of horizontal plane of&3D radiation drawing



3.Environment Characteristic

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