

TDE台德 部品承认书

PART FOR APPROVAL

文件编号: JX-RD-04-036

Ver: 1.0

No:

原厂名称 (品牌名称) Vendor Name: UANT

原厂型号 Vendor Part P/N: UB01C70F2D4976A

原厂规格描述 Part Description: 2.4G FPC 内置天线 L=70mm+端子

供应商确认签章: 东莞市优比电子有限公司

台德适用机型 Model: WBT790

台德 ERP 料号 Part No:

台德部品名称 Part Name: WIFI/BT 天线

台德规格描述 Part Description:

WIFI 天线,带背胶,FPC 尺寸 21.8*18.3mm,线长 70mm,型号:UB01C70F2D4976A,优
比,ROHS2.0+REACH

物料购置方式: ☒ 自购物料 ☐ 客供物料

备注 Remarks:

承认签章:

承认日期:

RD/研发中心	QA/品质中心	APPROVED/批准
		

注: 出承认书需要规格书、样品、测试报告验证无误后方可签名。

发放部门: ☒ 研发

☐ 采购

☐ 品质 IQC

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G FPC 内置天线 L=70mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C70F2D4974A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025/4/11	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2025-4-11

Content

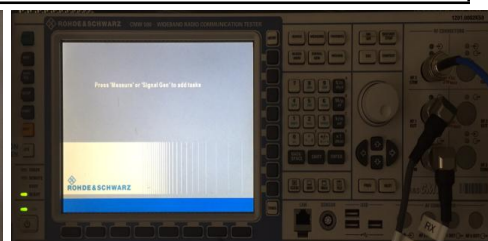
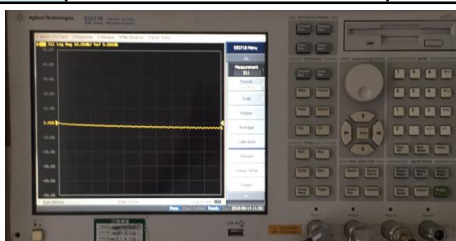
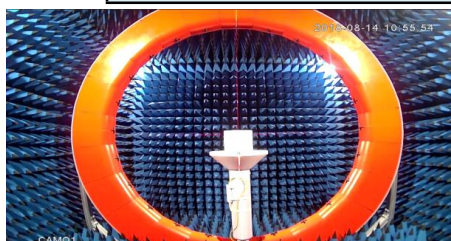
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Active test data
7.-----	Antenna installation diagram
8.-----	Mechanical Specification

1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	21.8x18.3,L70	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3 ± 1	dBi
Efficiency	>60% @2.4G	
Connector Type	RF 1	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

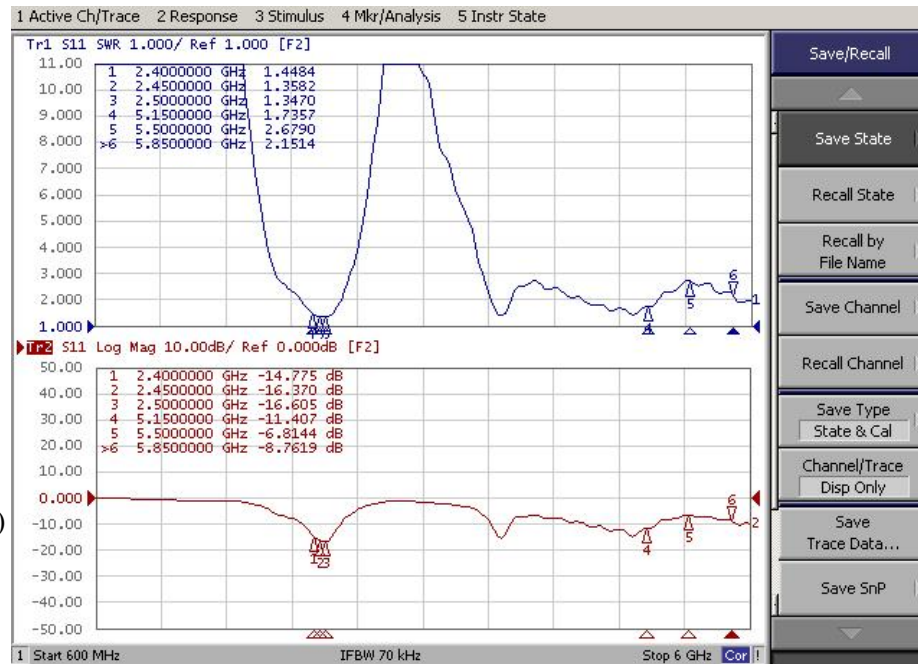
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

Frequency (MHz)	VSWR
2400	1.44
2450	1.35
2500	1.34

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

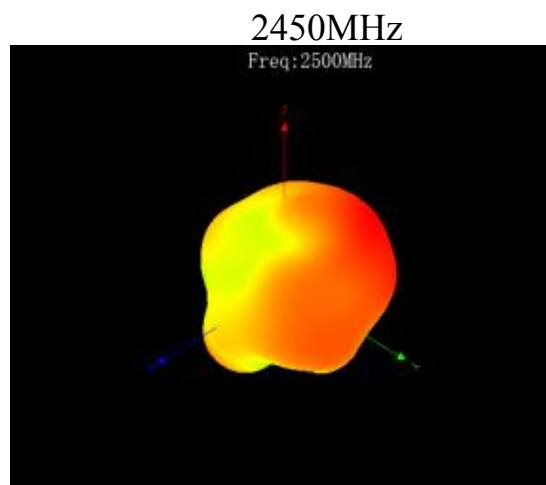
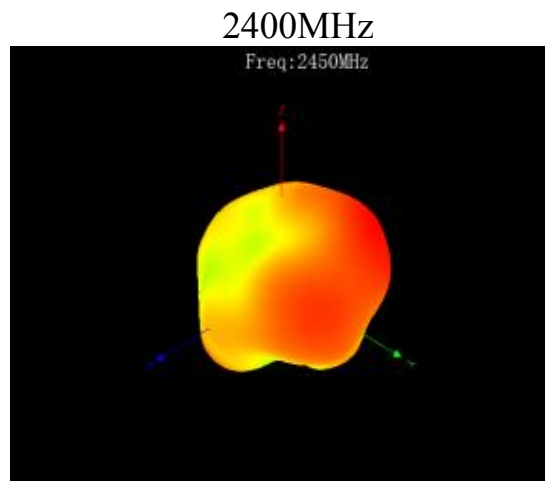
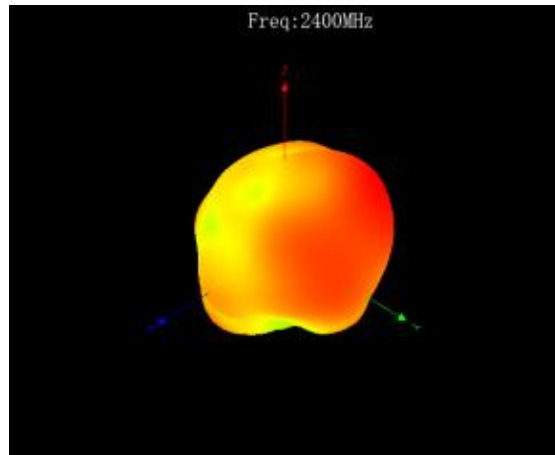


4. Efficiency and Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi	PatternRipple
2400	63.83	2.77	5.67
2410	63.53	2.99	5.97
2420	66.68	2.91	6.16
2430	64.71	2.81	6.52
2440	66.07	2.78	6.67
2450	68.39	3.11	6.94
2460	64.57	3.12	7.52
2470	67.76	3.47	7.79
2480	66.37	3.47	8.09
2490	63.97	3.6	8.63
2500	66.99	3.59	8.74

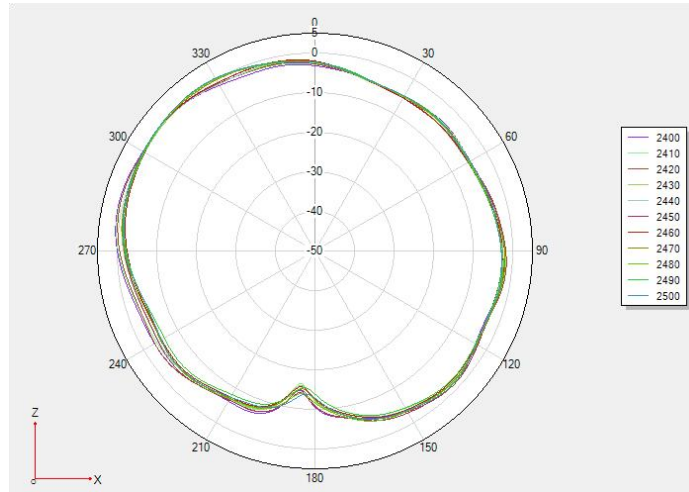
5. Radiation Pattern

5-1 Antenna 3D Radiation Pattern

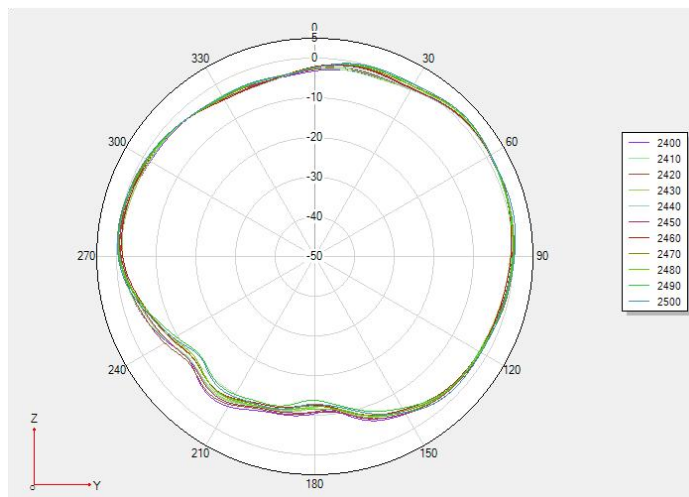


2500MHz

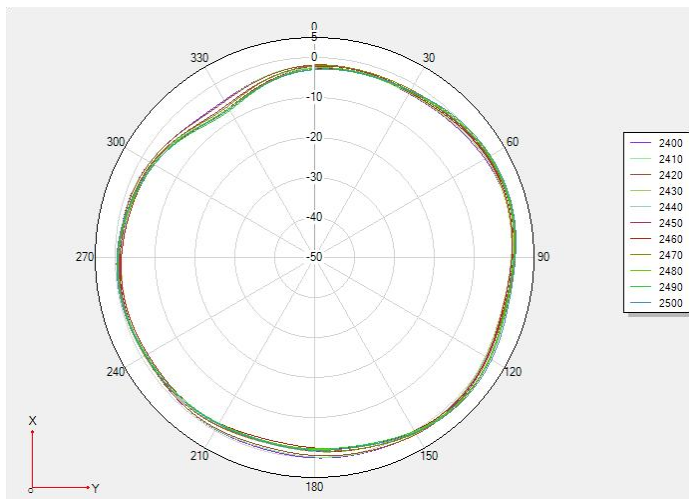
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Antenna installation diagram



7.Mechanical Specification

