



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2024/06/07
编号 File No	24060703
版本 Revision	1.0

客户
CUSTOMER:

客户料号
CUSTOMER NO:

MPD-P006

品名
PART NAME:

BT Antenna L=155.0mm MHF


供方料号
SUPPLIER NO:

YJS01.005.069.303

送样日期Date:

送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A



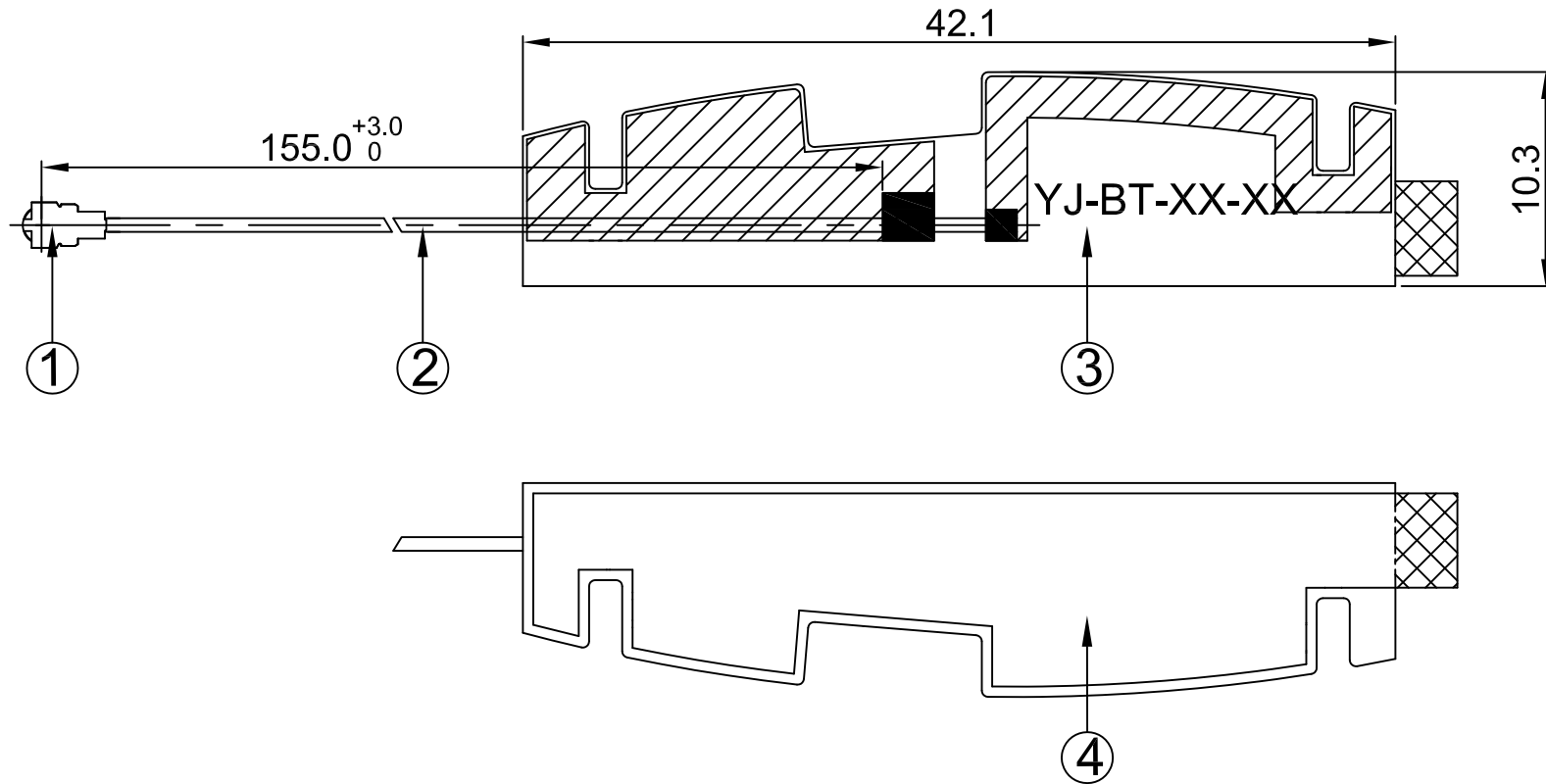
承认书项目表

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12	N/A	N/A	N/A
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RoHS
Compatible


CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
△A	首次发行	2024-01-20
△B	修改线长	2024-03-05
△C	修改天线材质、加长出线长、增加背胶	2024-03-28
△D	修改背胶为泡棉背胶	2024-04-13



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4	Paster+EVA	41.1*9.3*T0.5MM	Heng Chang	EVA+3M	EVA10XXXA.P01	1
3	PCB	42.1*10.3MM*T0.4MM Black	Guang Hong	PCB	PCB10XXXA.P01	1
2	Coaxial Cable	O.D.1.13 White Low Loss	Kai Bo	O.D.1.13	COA10XXXA.P01	1
1	Mini Connector	Au Plated 1代	Hang Yuan	Cu	TER10XXXX.P01	1
NO	PART NAME	DESCRIPTION	SUPPLIER	Material	Part Number	Q.TY

PART NAME: BT Antenna L=155.0mm MHF			
PART NO.:YJS01.005.069.303			DATE: 2024-04-13
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
CiCi	周棋	陈俊	
UNITS: mm SCALE: 1/1 REVISION:D			



天线规格

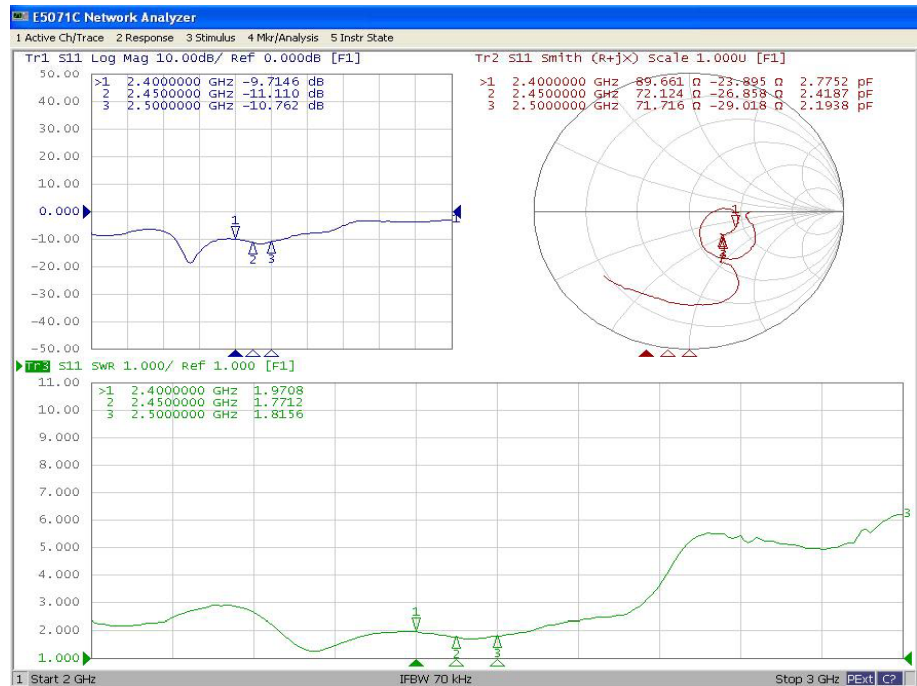
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.7 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm低损耗
Cable Length	155mm
Cable Color	White
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Antenna Performance Test

**Agilent
E5071B
S11
Parameter
Test //
BT
Antenna**

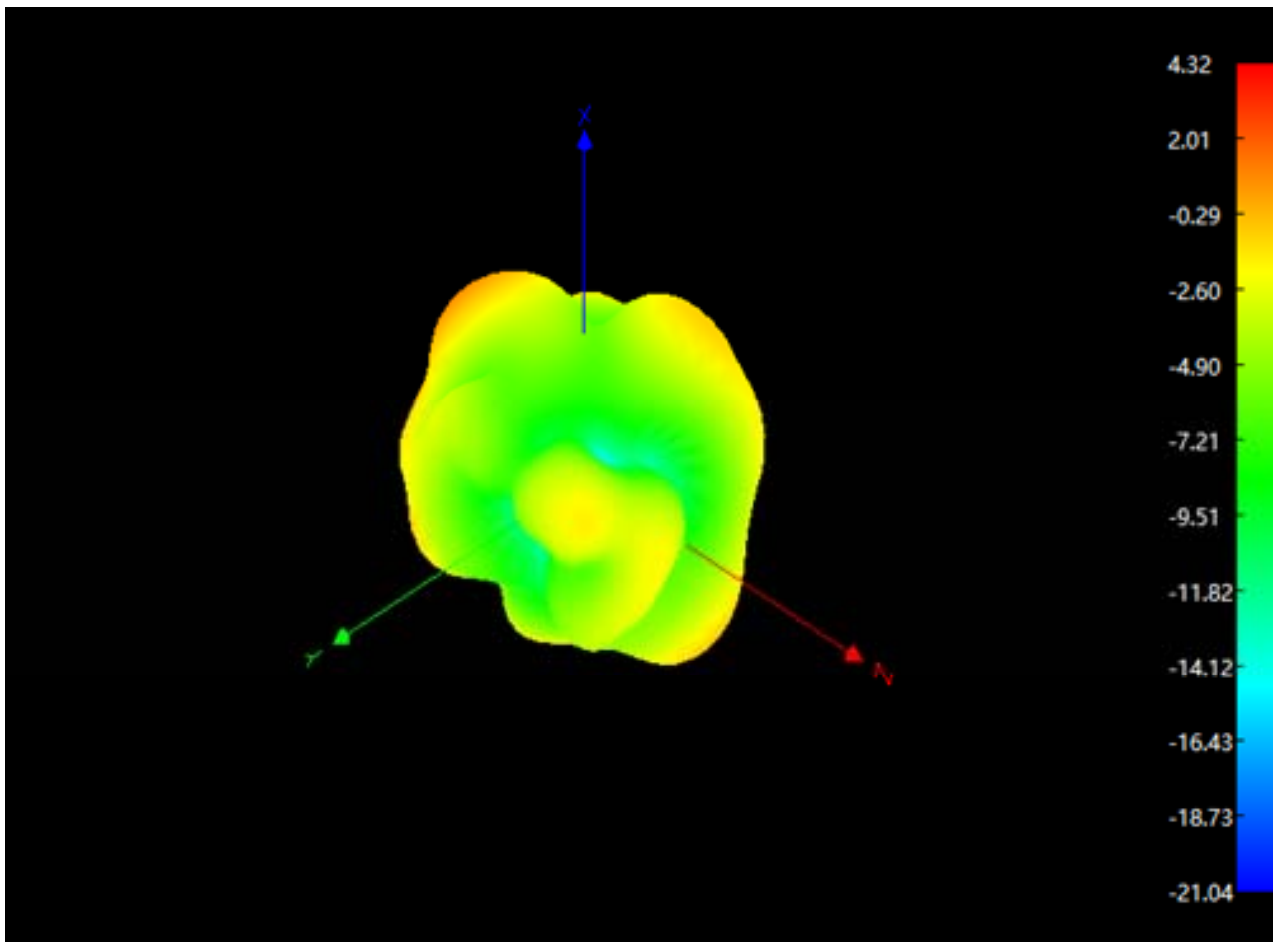




Passive Test For BT Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	51.2	-2.9	4.3
2410	49.4	-3.1	4.1
2420	46.8	-3.3	3.8
2430	47.3	-3.3	4.0
2440	47.0	-3.3	4.1
2450	47.2	-3.3	4.3
2460	44.6	-3.5	4.3
2470	46.5	-3.3	4.7
2480	43.3	-3.6	4.5
2490	42.7	-3.7	4.3
2500	40.7	-3.9	3.8

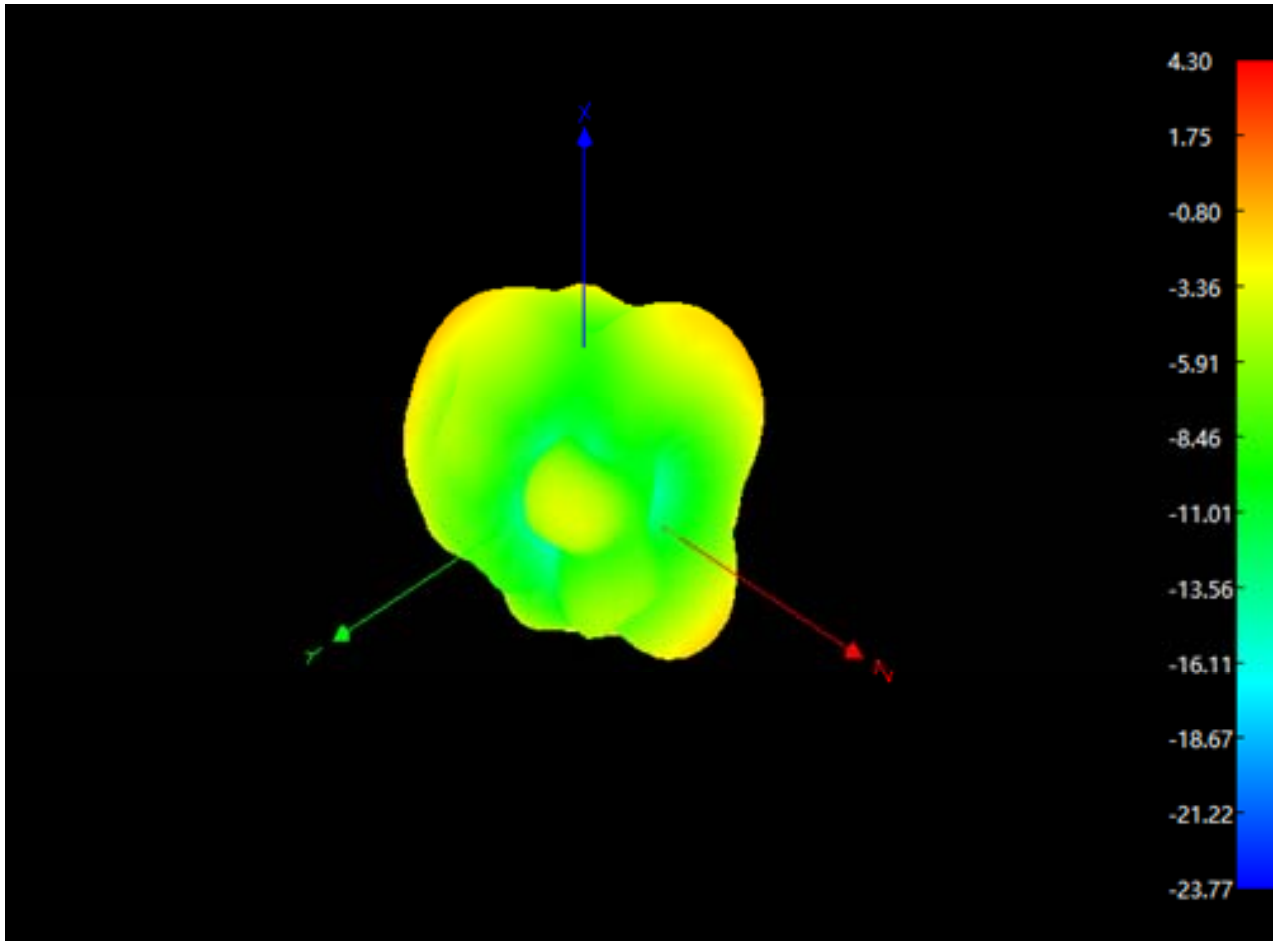


Radiation Pattern For BT Antenna (2400MHz)



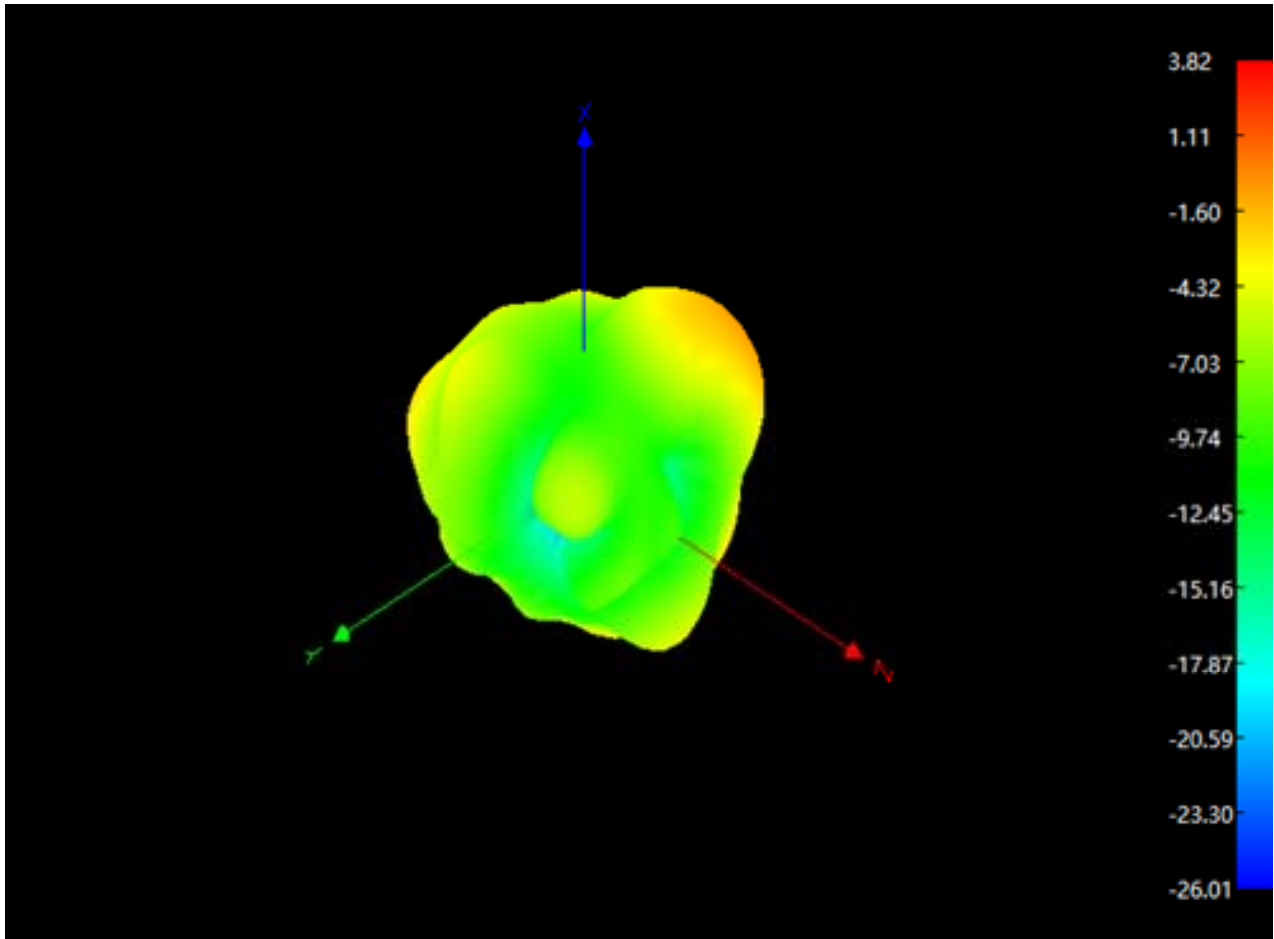


Radiation Pattern For BT Antenna (2450MHz)





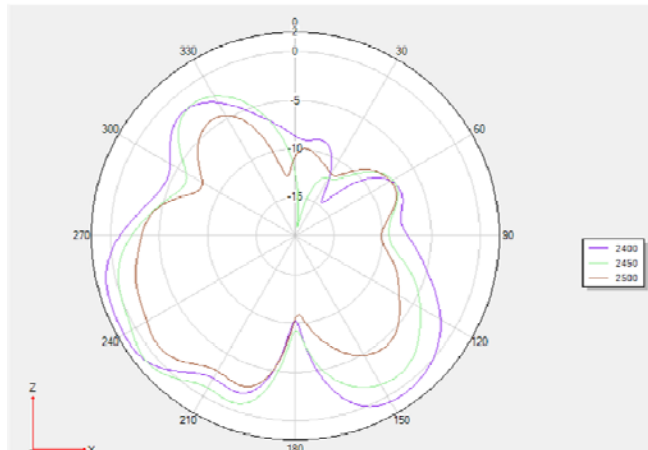
Radiation Pattern For BT Antenna (2500MHz)



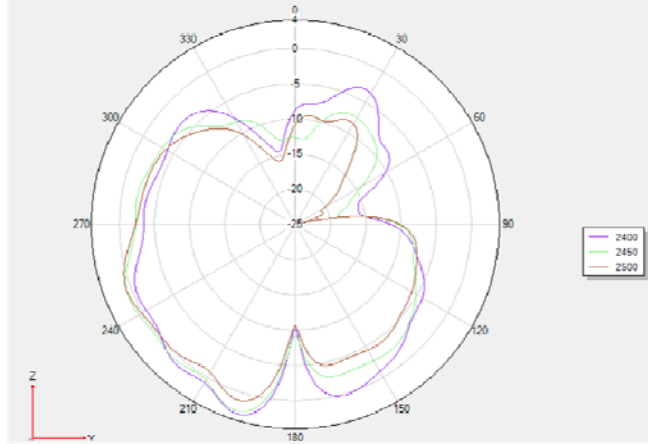


Radiation Pattern For BT Antenna

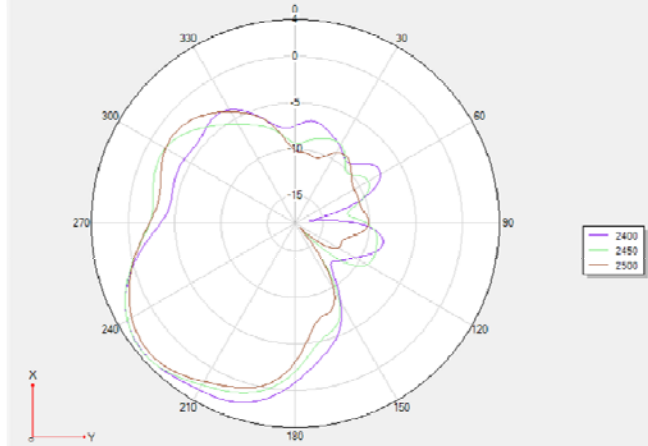
Phi 0°



Phi 90°



Theta 90°





Active Test For BT Antenna					
Band	Channel	TRP	EIRP	TIS	EIS
BlueTooth	0	3.3	8.2	-91.2	-96.6
	39	3.7	9.3	-92.8	-98.2
	78	4.1	10.4	-93.0	-99.2

add: Yuanfu Industrial Park, No.59, Muyu Road, Shatou Community, Chang'an Town, Dongguan, Guangdong



Device





***BT
Antenna***

