

# Antenna specification manual

## Product Specification

客户名称

Customer : Juli North

产品名称

Product Description: 5G WIFI antenna

料号

Part NO.: ANT-PCB-071

客户料号

Customer Part NO.: ANT-PCB-MATE

版本

Version: V1.0

日期

Date: 2022.12.20

	供应商确认 Manufacturer Signature	客户确认 Customer Signature
Approved by:	锐博泰科技	张工
Date:	2022.12	2022.12

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## 版本 Revised History

Date	Version	Revised Record

## 规格表 Antenna Specification

### 电气特性 Electrical Properties

Function	5G WIFI antenna
Frequency range (GHz)	<b>5.1-5.85</b>
Voltage Standing Wave Ratio (VSWR)	$\leq 2.5$
Gain (Peak) (dBi)	<b>1.77dBi</b>
Input impedance ( $\Omega$ )	<b>50</b>
Polarization mode	Linear Vertical
Antenna form	<b>On board PIFA</b>



### 物理特性 Physical Properties

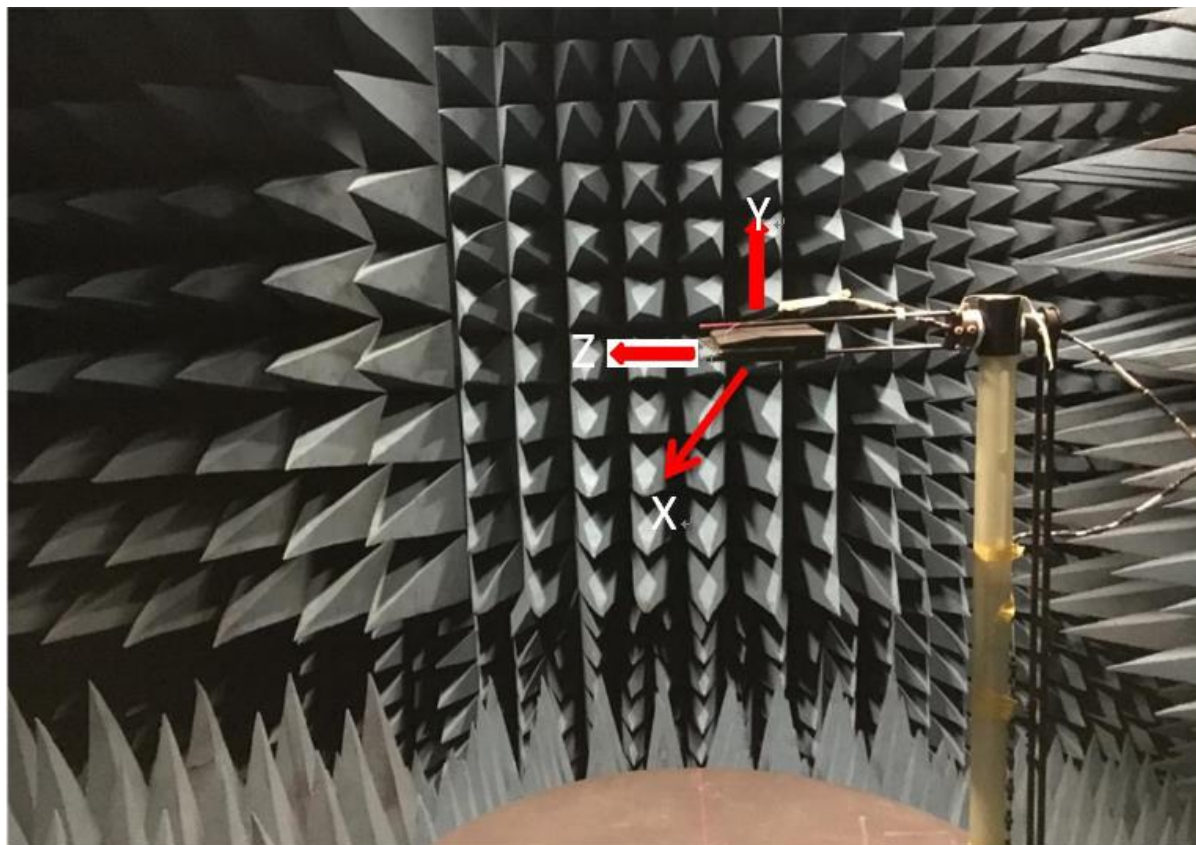
Function	5G WIFI antenna
Antenna appearance size	<b>7.1X3.5mm</b>
Antenna material	<b>PCB</b>
Antenna color	
Cable Type	
Connector model	
Operation temperature	<b>-20°C-85°C</b>
Storage temperature	<b>-40°C-95°C</b>



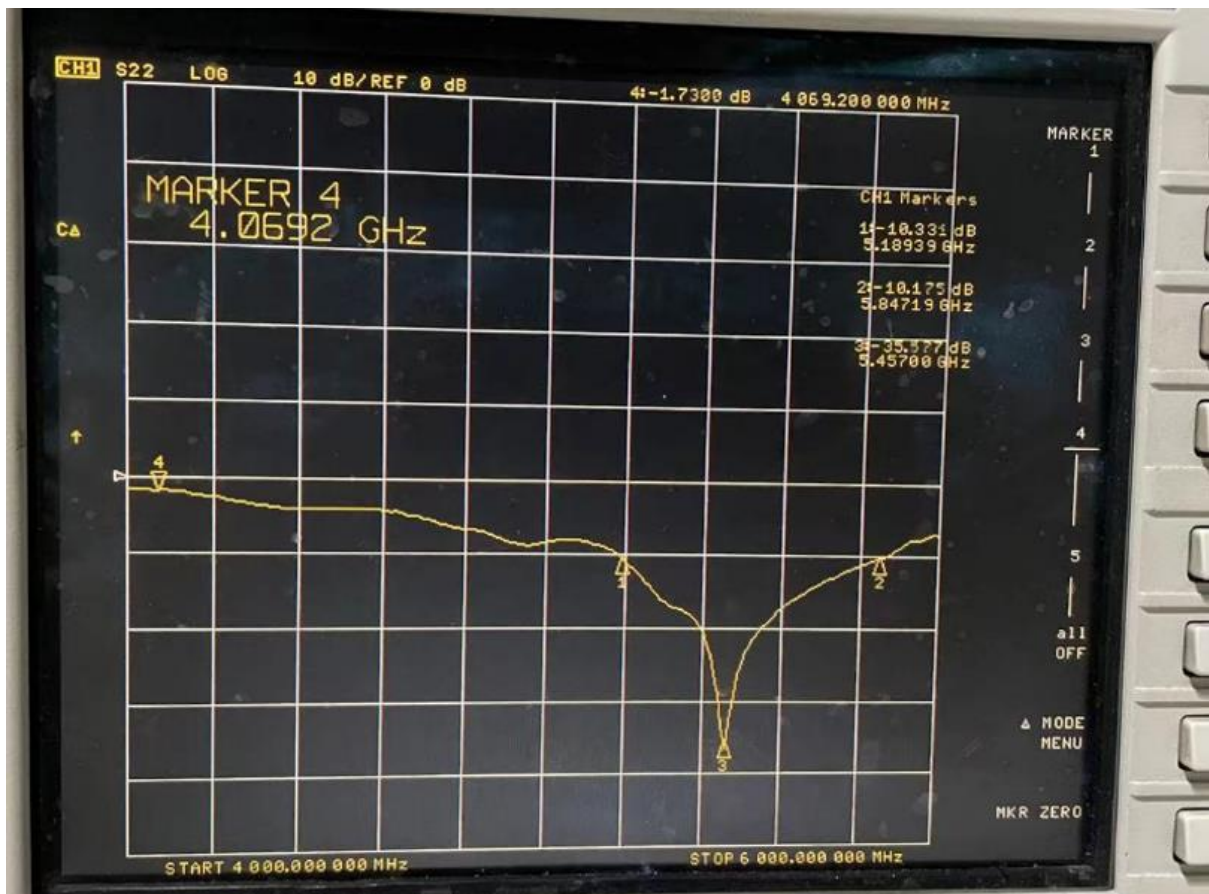
## 测试报告 Test Report

### Test equipment

SN.	Device Name	Device image	Measurement indicators	Operating environment
1	Atenlab 3D microwave anechoic chamber		Passive performance	No large area around  Metal objects often  Warm and humid
2	Agilent E5071C network analyzer			



Return Loss/VSWR/Smith chart:

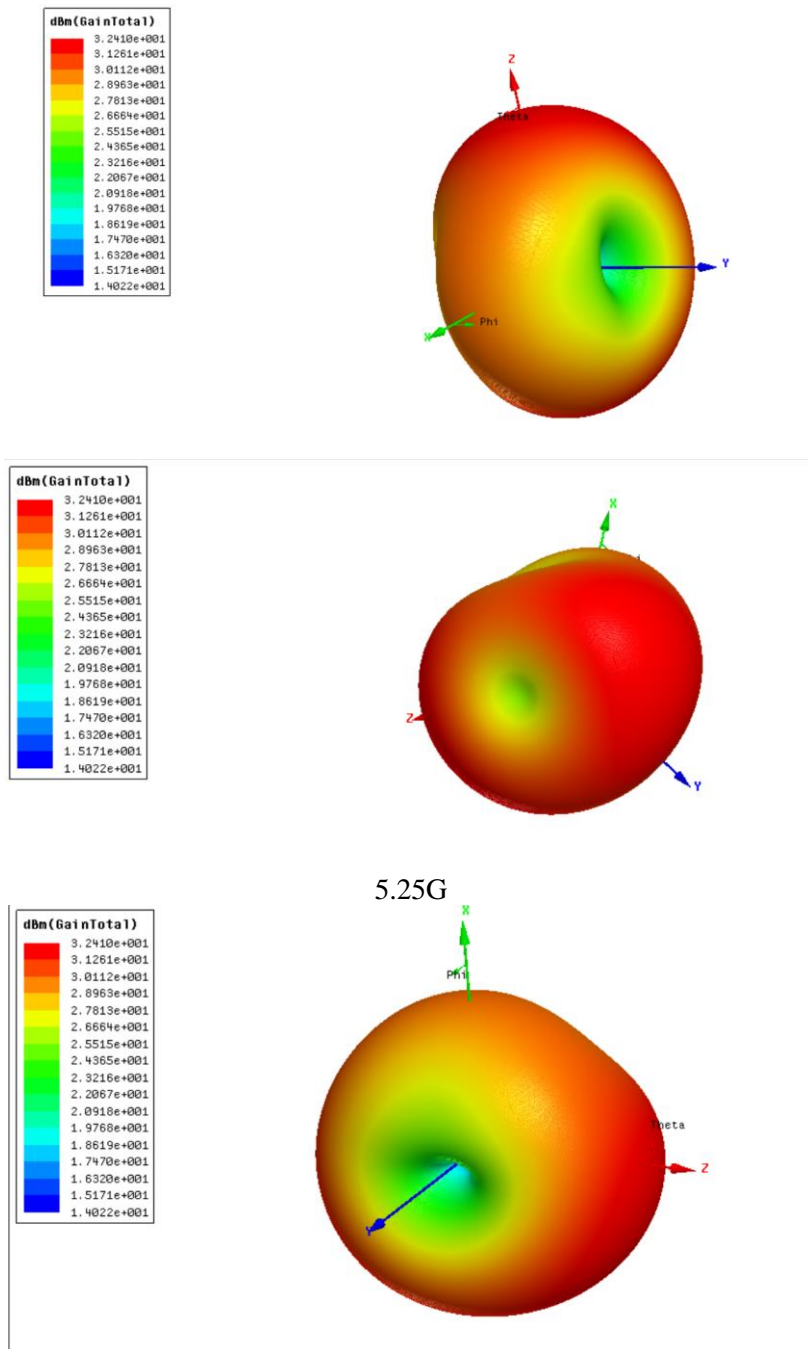


Frequency (GHz)	5.2G	5.85G
Loss	-10	-10
VSWR	1.87	1.87

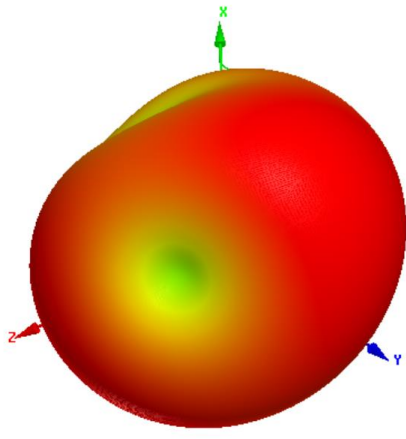
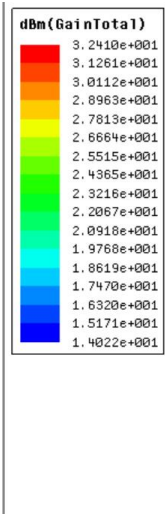
Antenna gain/Efficiency (5G)

Frequency (GHz)	5.2	5.35	5.5	5.75	5.85
Efficiency (%)	66.2	63.2	64.1	65.9	62.3
Peak Gain (dBi)	1.64	1.72	1.73	1.68	1.77

方向图:







5.8G