



Dongguan Aiwei Technology Co.,
Ltd. Dongguan ivy technology
co., LTD.

acknowledgement

Customer name: Dbi

Customer Project Name:

Customer No.:

51010117

name of
material:

2.4G 5dBi white antenna gray 1.37 mm feeder L=190mm + IPEX

Ai micro
material
number:

VWO1-WO20044

date:

2022-7-9

Edition:

X2

	MANUFACTURE SIGNATURE	CUSTOMER SIGNATURE
CHECKEDBAY:		陈元平 2022 7.27
AUDITORBAY:		
APPROVED BAY		李杰 2022.7.26
DATE:	2022-7-9	



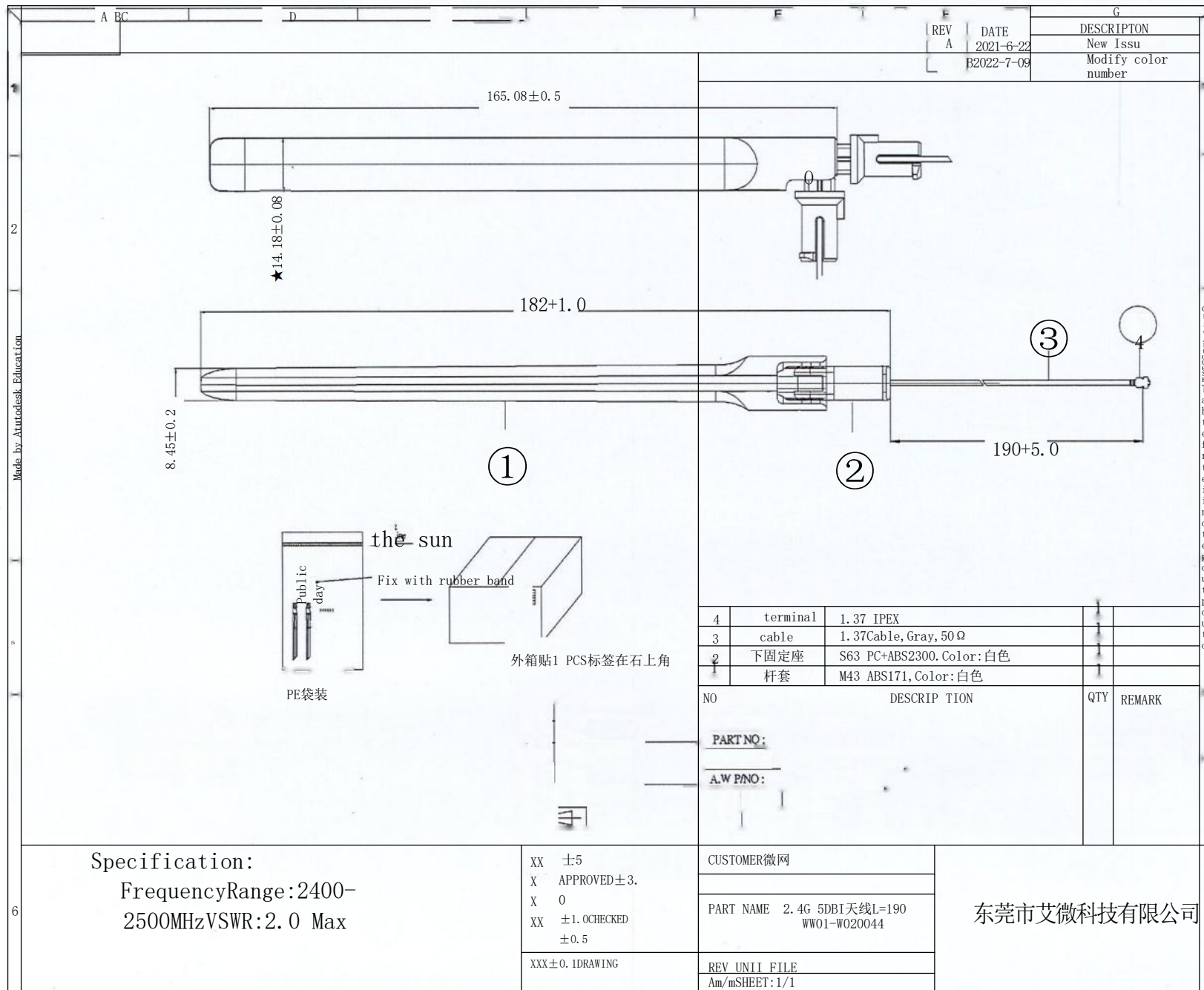
Dongguan Aiwei Technology Co., Ltd. Dongguan ivy technology co., LTD.

1. Specification table:

the key technical indexes		Main technical specificat ions	
Frequen cy Range (MHz)	2400~2500	Frequency Range (MHz)	2400~2500
Characteristic impedance (Ω)	50 ± 5	Impedance (Q)	50 ± 5
gain (dBi)	5 ± 0.5	PeakGain(dBi)	5 ± 0.5
Output voltage standin g wave ratio	Max2.0	VSWR	Max2.0
maximum power	2W	Admitted Power	2W
Polarizat ion mode	linear polarization	Polarization	Linear Vertical
directivi ty	omnidirect ional	Radiation	Omni-directional
attended mode	terminal	Connector Type	IPEX
physical property		Physical Properties	
Antenna wire	1.37 Gray	Antenna cable	1.37 Gray Cable
working temperatu re	$-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$	OperatingTemp	$-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$
Save the temperatu re	$-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$	Storage Temp	$-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$

2.4G

Made by Autodesk Education Edition products

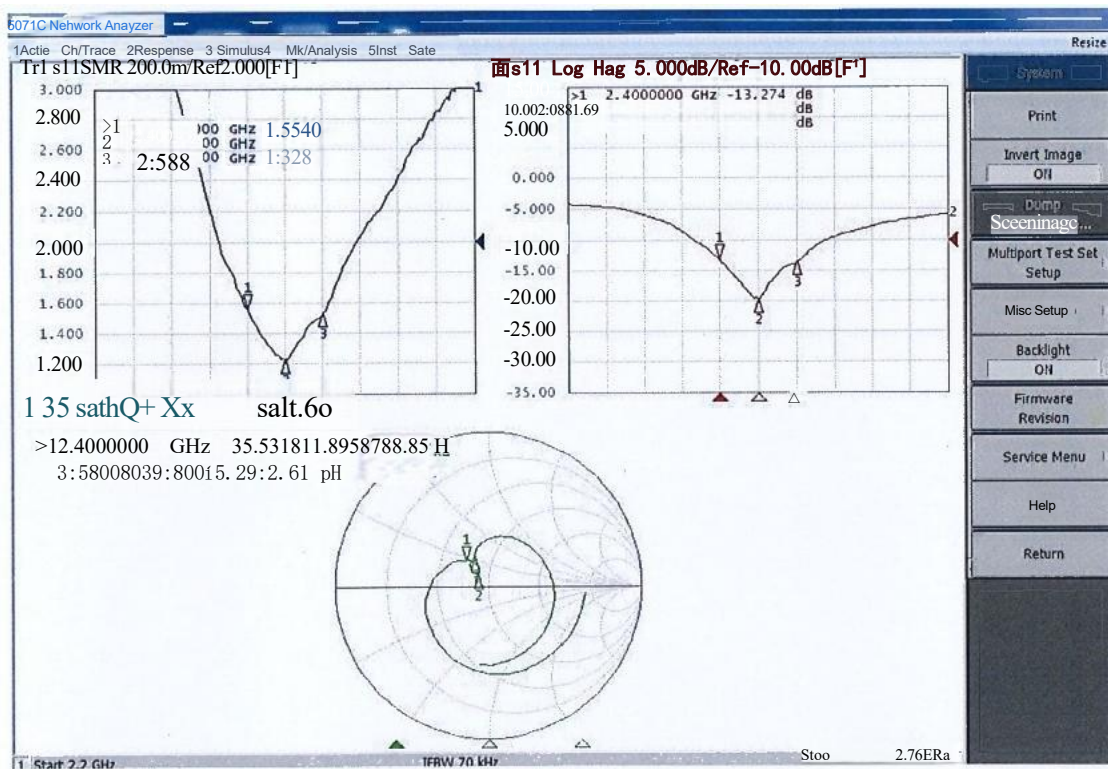


三、电测报告Product Characteristics

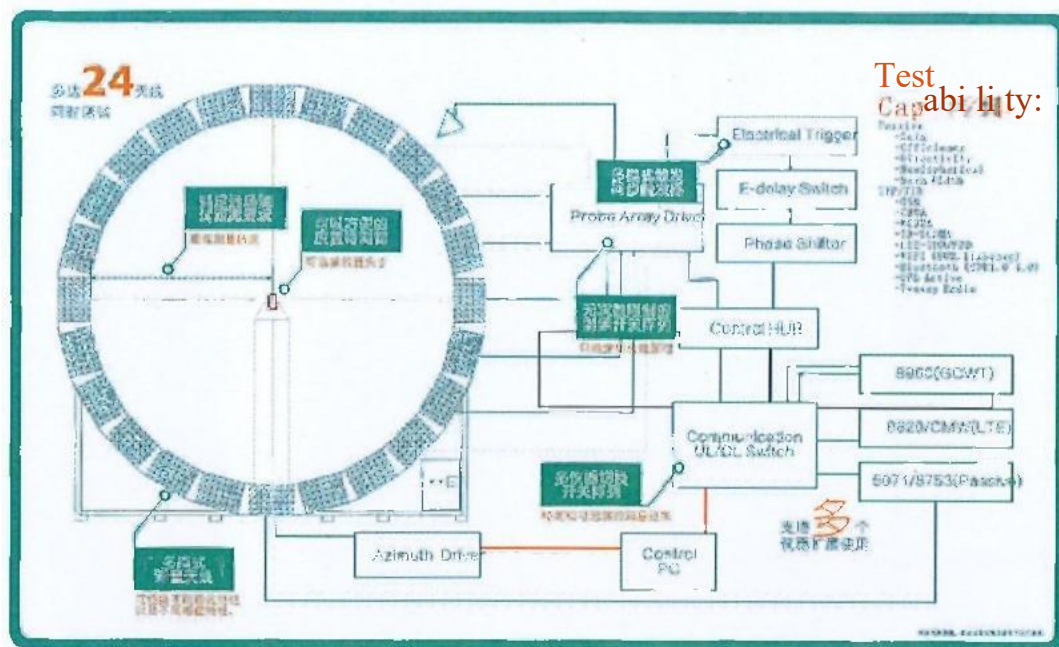
Agilent E5071C Network Analyzer



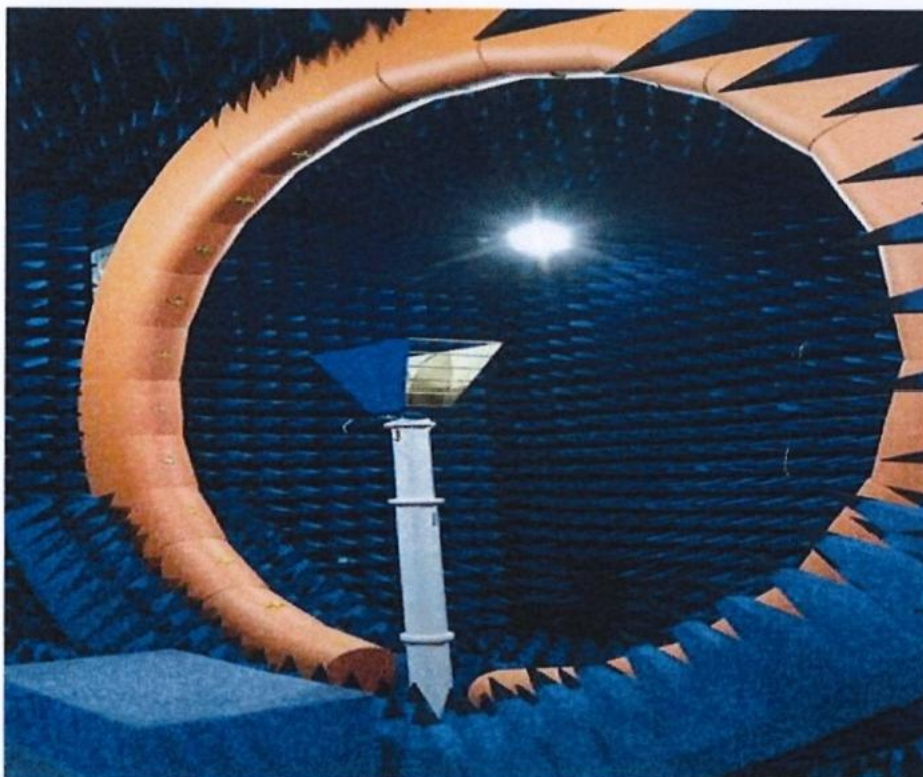
2400-2500MHz



测试原理框图:



暗室内部图片:



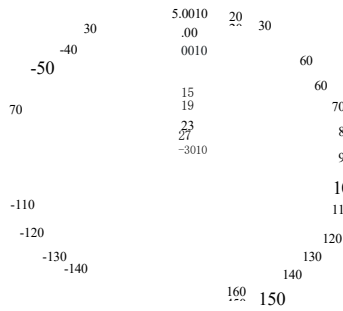
2.4-2.5GHz

Radiation

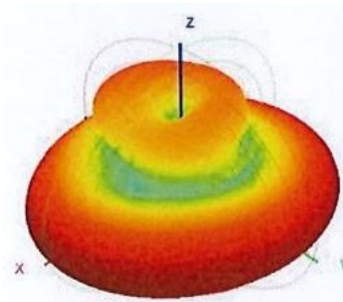
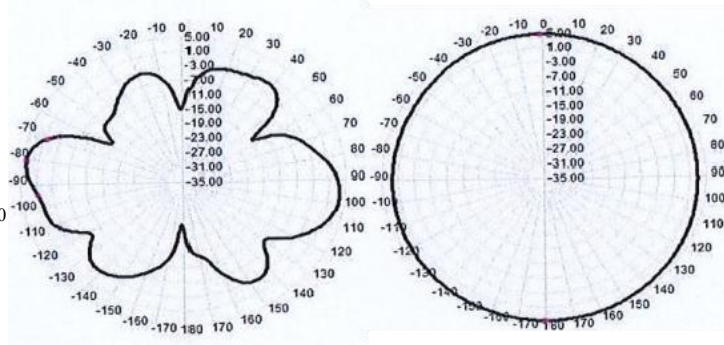
Pat tern

2.4GHz

E1

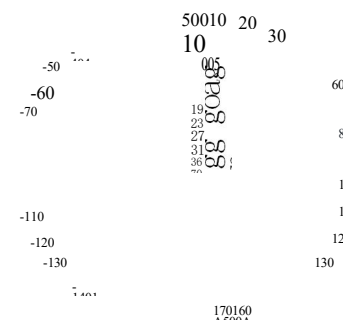


E2 H

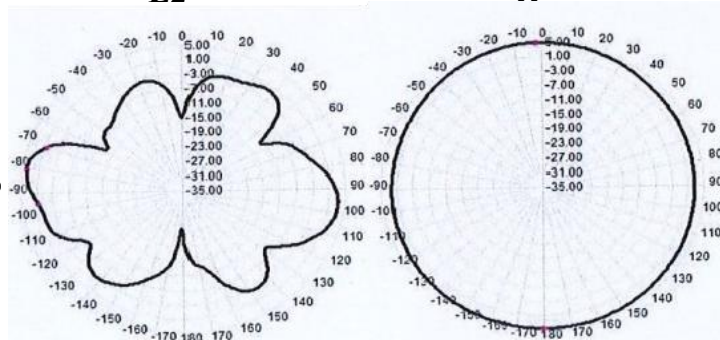


2.45GHz

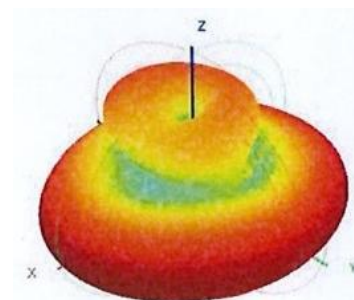
E1



E2

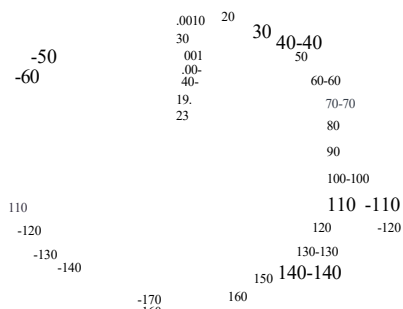


H

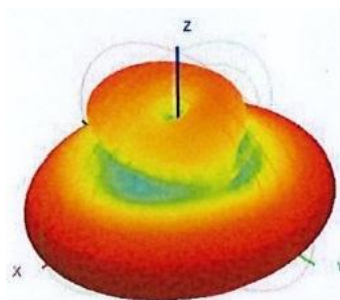
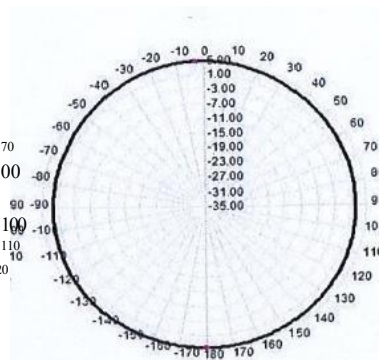
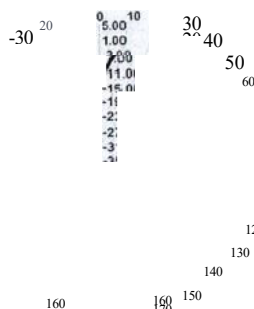


2.5GHz

E1



E2 H





Dongguan Aiwei Technology Co.,
Ltd. Dongguan ivy technology
co., LTD.

1. Gain & Patterns test results

2D patterns

Summary

VSWR

	2400MHz	2450MHz	2500MHz
VSWR	1.55	1.23	1.52

3D Peak Gain & Efficiency

Frequency	Antenna	
	Peak Gain (dBi)	Efficiency (%)
2400MHz	4.81	76.1
2410MHz	4.74	75.5
2420MHz	4.75	73.7
2430MHz	4.85	74.5
2440MHz	4.83	75.3
2450MHz	4.77	74.1
2460MHz	4.77	75.4
2470MHz	4.71	76.7
2480MHz	4.79	77.3
2490MHz	4.73	74.2
2500MHz	4.74	75.6



Dongguan Aiwei Technology Co., LTD

acknowledgement

Customer name: Micro-grid

Product name: External antenna

Specification model: 5.8G 5 dbi set white /
outlet RG 137 black 210mm + IPEX

Customer

Model:

Customer

Material

No.:

Our Material No.: VW01-W020041

Address: Room 303, Unit 2, Building 1,
No.8, Keji Second Road,
Songshan Lake Park, Dongguan
City (Block E, Zhongke
Innovation Square)

Sample delivery date:

May 6, 2022 Japan

confirmation:

check up	exam verifi	an ratify
Wu Juan	Xu Zhiqia	Wan to compete

Customer confirmation:

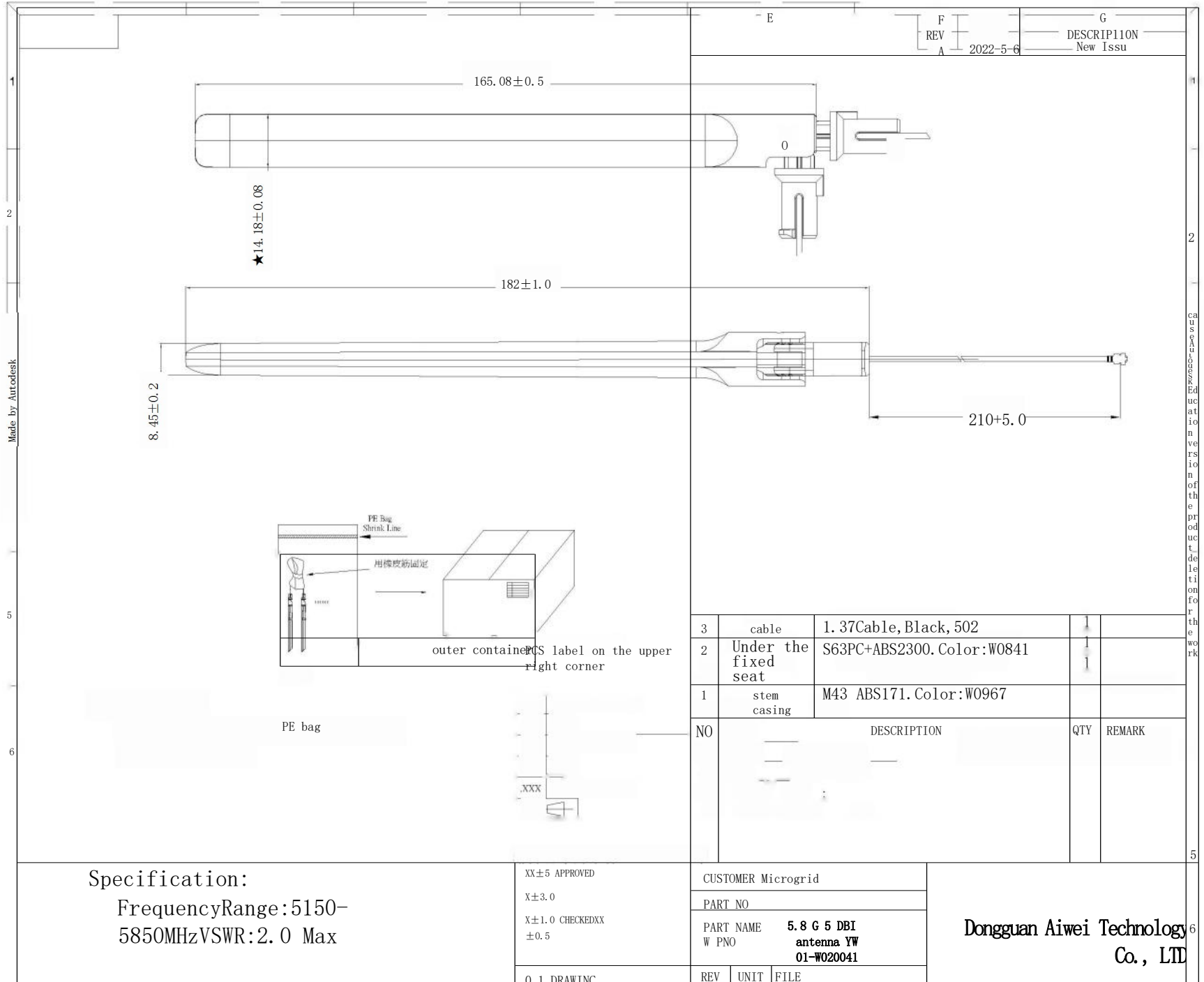
check up	examine and verify	ratify

1. Specification table:

the key technical indexes		Main technical specifications	
Frequency Range (MHz)	5150~5850	Frequency Range (MHz)	5150~5850
characteristic impedance (Ω)	50 $\pm$ 5	Impedance(Ω)	50 $\pm$ 5
gain (dBi)	5 $\pm$ 0.5	Peak Gain(dBi)	5 $\pm$ 0.5
output voltage standing-wave ratio	Max 2.0	VSWR	Max 2.0
maximum power	2W	Admitted Power	2W
Polarization mode	linear polarization	Polarization	Linear Vertical
directivity	omnidirectional	Radiation	Omni-directional
attended mode	terminal	Connector Type	MHF
physical property		Physical Properties	
Antenna wire	1.37 Black	Antenna cable	1.37 Black Cable
working temperature	-40°C~+60°C	Operating Temp	-40°C~+60°C
Storage temperature	-40°C~+60°C	Storage Temp	-40°C~+60°C



56 Product



Body card singing: with the monkey ysepoinV a

3. Electrical test report: Product Characteristics

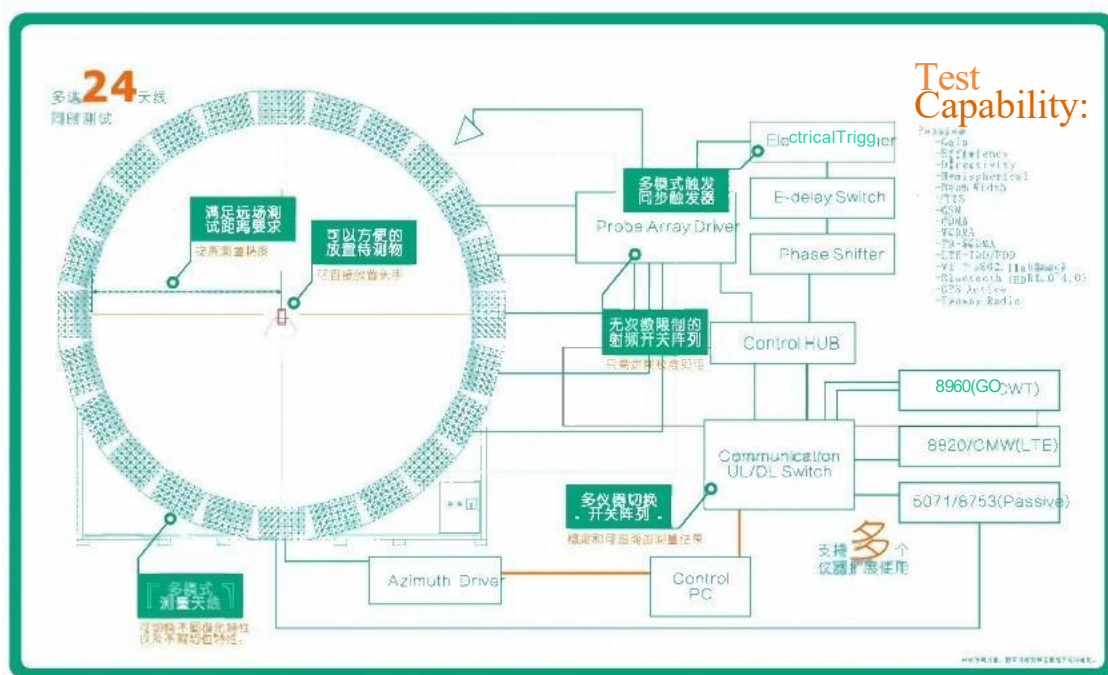
Agilent E5071C Network Analyzer



5150-5850MHz



测试原理框图:

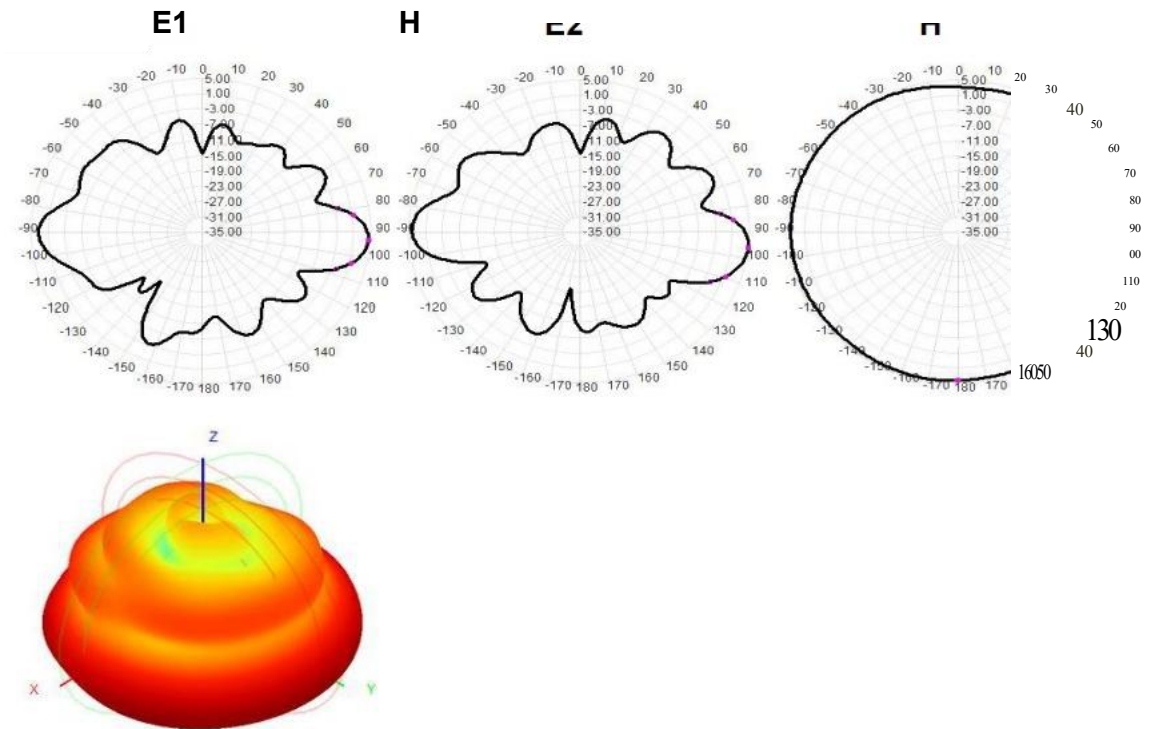


暗室内部图片:

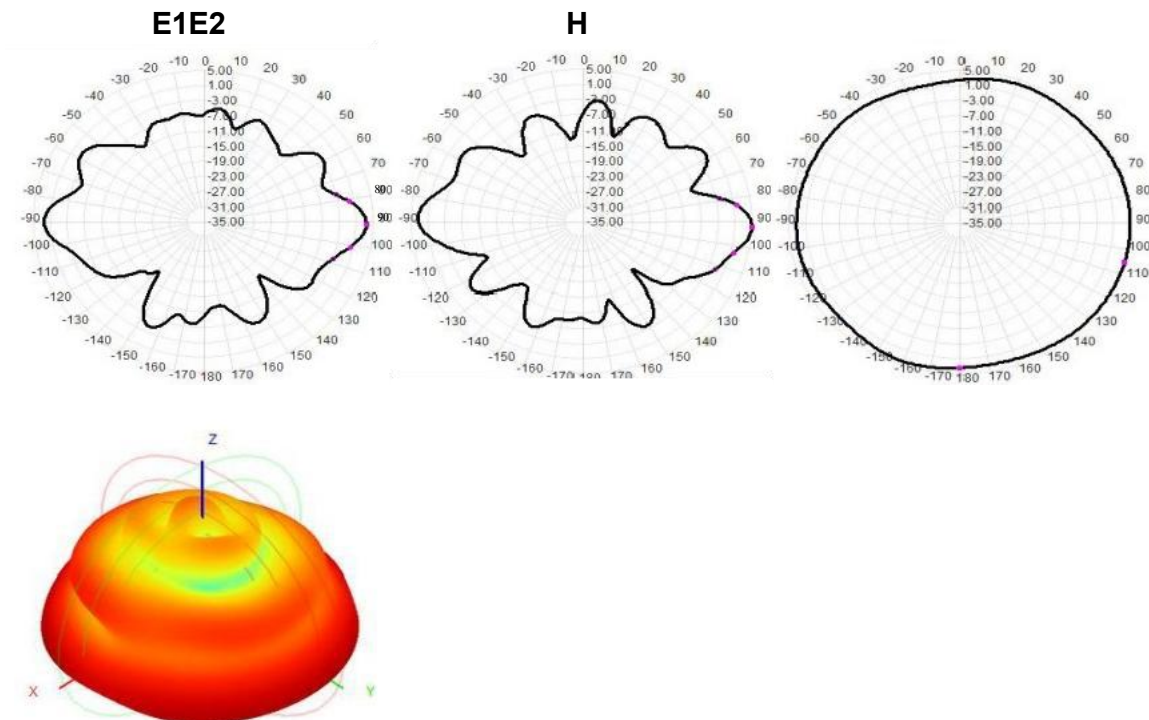


5.15~5.85GHz Radiation Pattern

5.15GHz

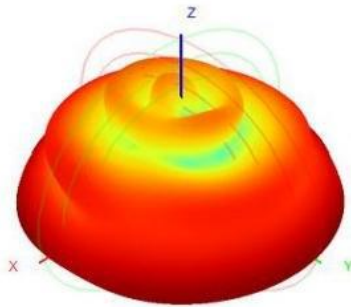
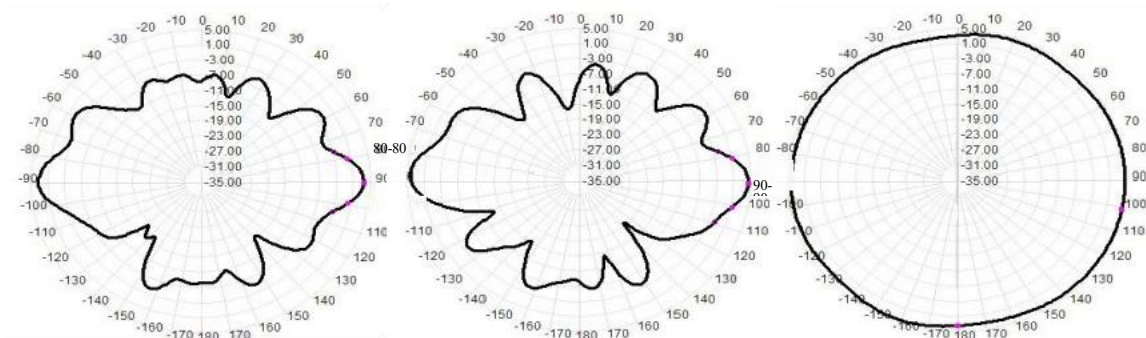


5.55GHz



5.85 GHz

E1E2 H



VSWR

	5150MHz	5550MHz	5850MHz
VSWR	1.18	1.15	1.21

3 D Peak Gain& Efficiency

Frequency	Antenna	
	Peak Gain(dBi)	Efficiency (%)
5150 MHz	4.78	72.4
5200 MHz	4.96	73.7
5250 MHz	4.82	74.9
5300 MHz	4.88	72.2
5350 MHz	4.94	73.3
5400 MHz	5.02	71.4
5450 MHz	4.82	72.7
5500 MHz	4.87	74.1
5550 MHz	5.03	74.8
5600 MHz	4.96	72.3
5650 MHz	5.05	73.7
5700 MHz	4.98	71.3
5750 MHz	4.83	72.6
5800 MHz	4.92	74.7
5850 MHz	4.89	75.1