

SPECIFICATIONS FOR APPROVAL

Customer Name: 伊欧乐

Product Name: BT 天线

Product Model: C24001D10

Part Number:

Write By : 张运鼎

Issued Date: 2024-12-10

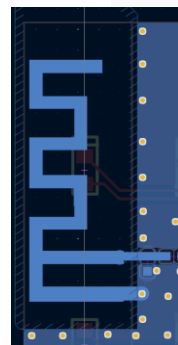
CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

SOUTHSTAR

R & D DEPT	ENGINEER R&D DEPT	APPROVAL

The basic parameters:

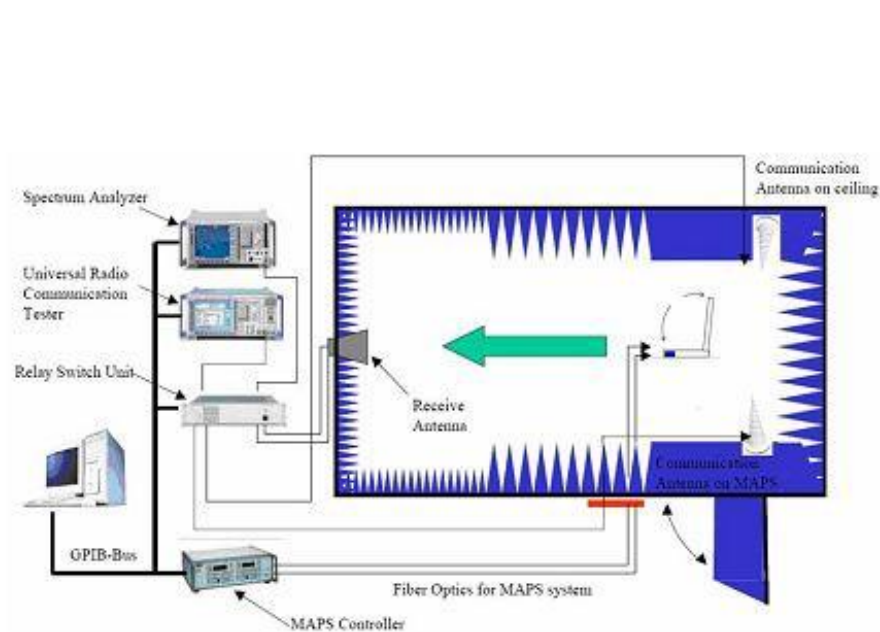
A. Electrical Characteristics	
Frequency	2400 MHz ~2500 MHz
VSWR	< 2.5
Efficiency	>40%
Impedance	50 Ohm
Polarization	Linear
Gain	>0.5dbi Maximum: 1.7
B. Material & Mechanical Characteristics	
Material of Radiator	The inverted F antenna is mounted on the PCB black 
Cable Type	
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	-10 °C ~ + 50 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions

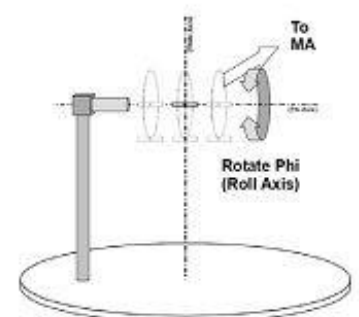
1. Network Analyzers :

Agilent 8753D 5071B

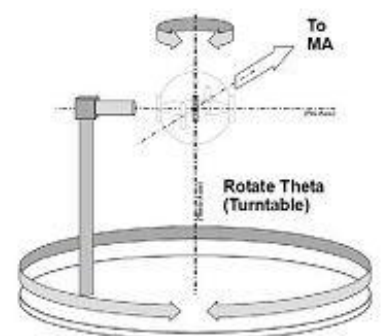
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)

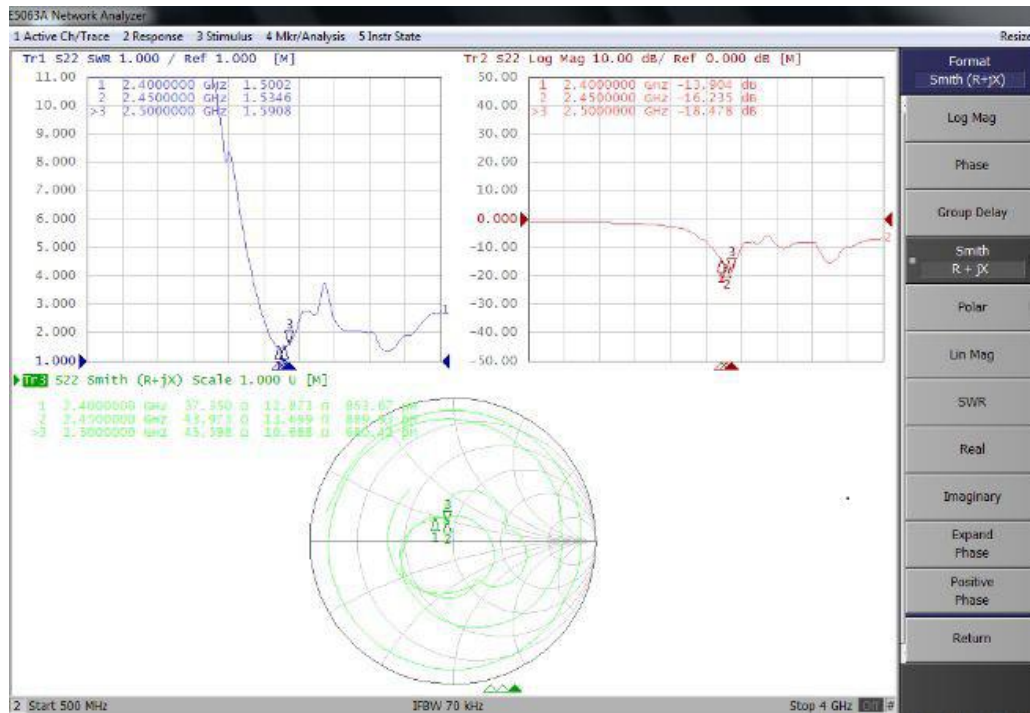


Phi axis test

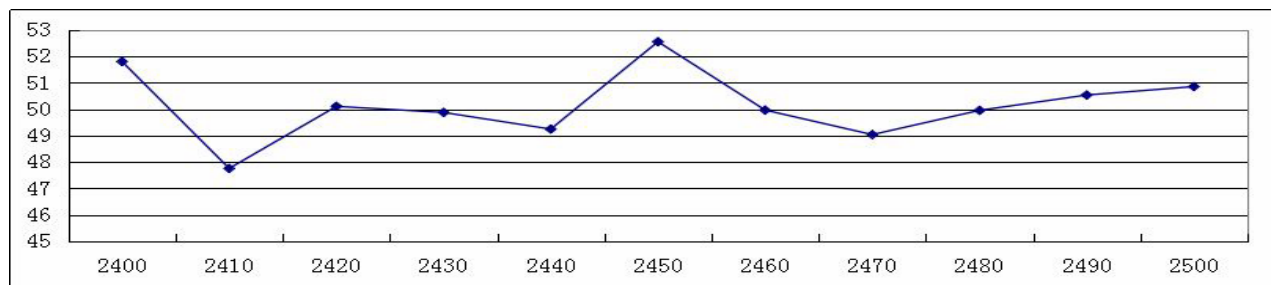


Theta axis test

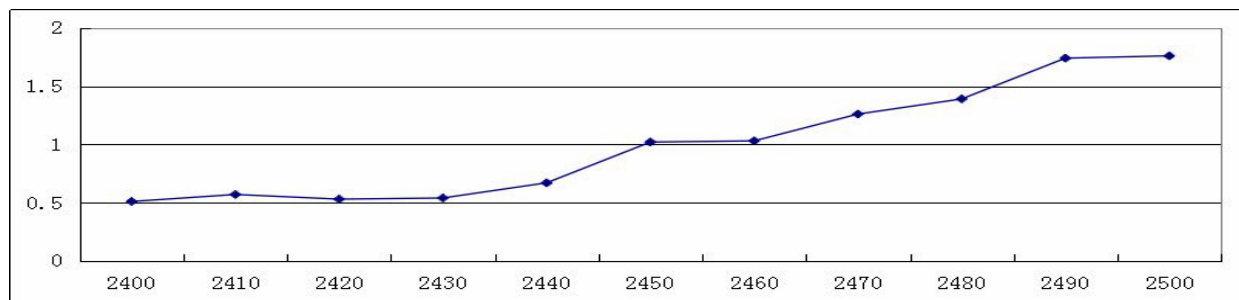
3. Antenna Impedance: S11 (parameter)



4. Total Efficiency-2.4G:

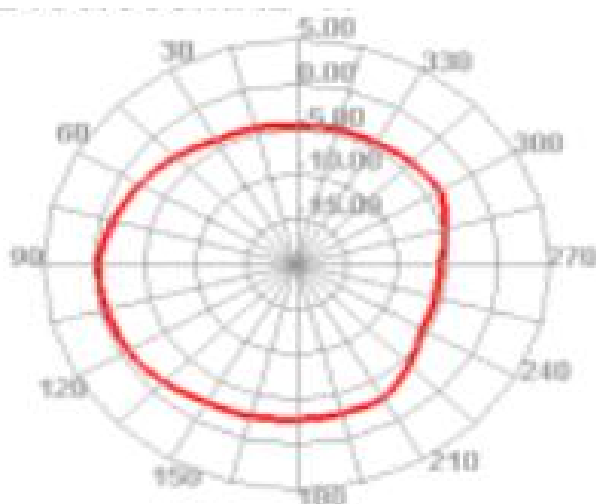


5. GAIN-2.4G:



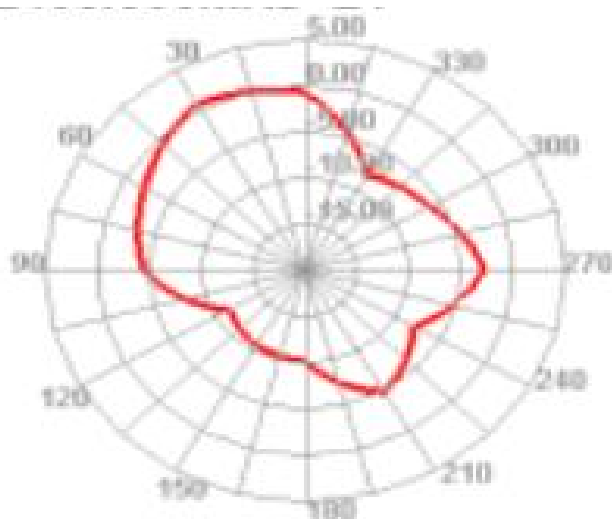
6.01 directional diagram (xy plane, Z=0)

2500MHz



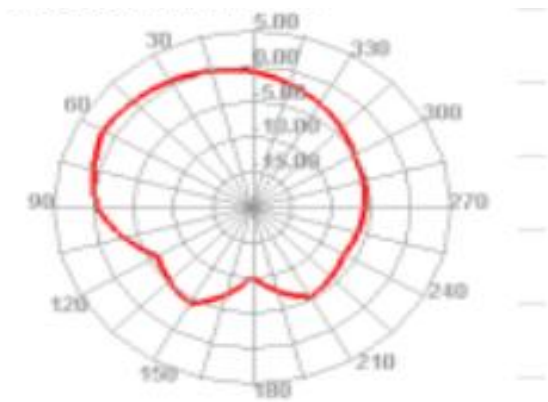
6.02 directional diagram (xy plane, Y=0)

2500MHz



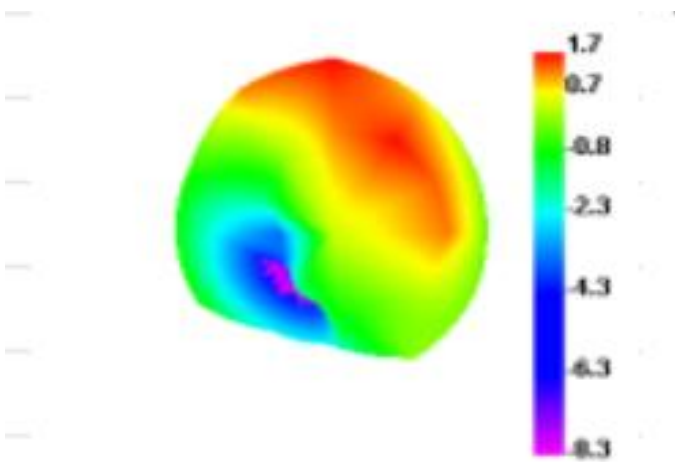
6.03 directional diagram(YZ plane, X=0)

2500MHz



6.03 Apple Chart

2500MHz



Frequency	2400	2420	2430	2440	2450	2460	2470	2480	2490	2500
Total Efficiency (%)	51.9	51	49.9	49.3	52.5	50	49	50	50.5	50.9
Gain (dBi)	0.51	0.60	0.55	0.75	1.01	1.11	1.35	1.48	1.70	1.70

7. Installation method

