

Item Information

1

Manufacturer: Dream Sound (Dongguan) Electronic Technology Co., Ltd.

2

Model: BT-ANT1

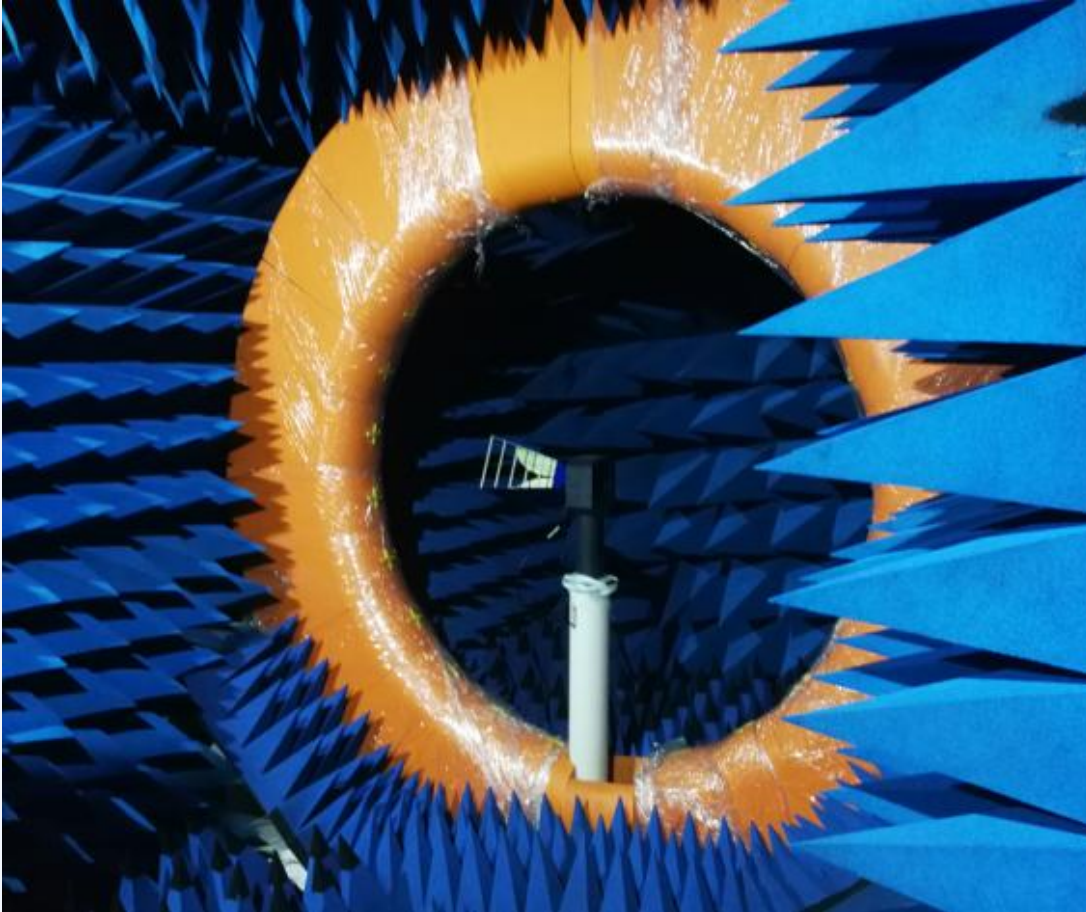
3

Band: 2.4G:2400-2500MHz

4

Note: Passive testing

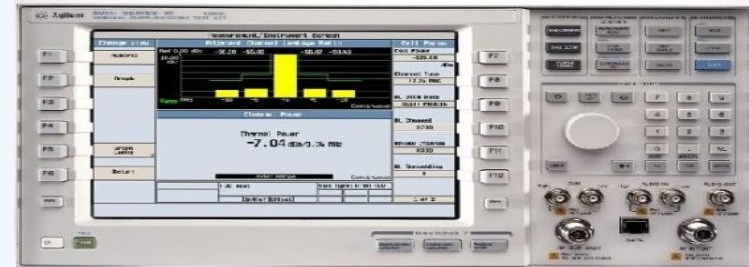
Testing equipment



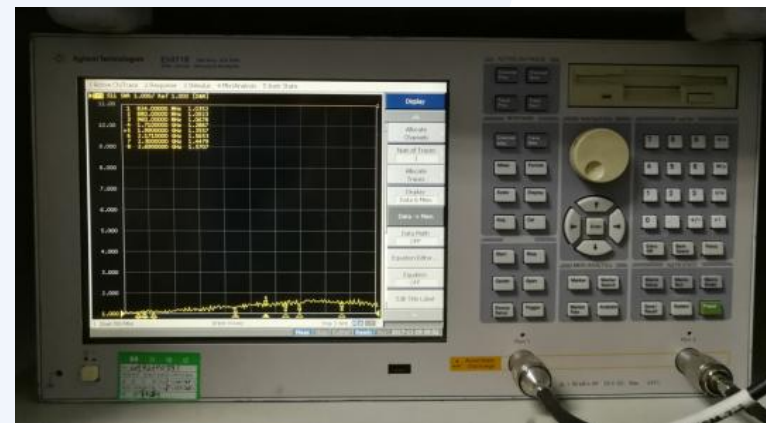
A 24-probe microwave chamber



R&S CMW500



Agilent E5515C



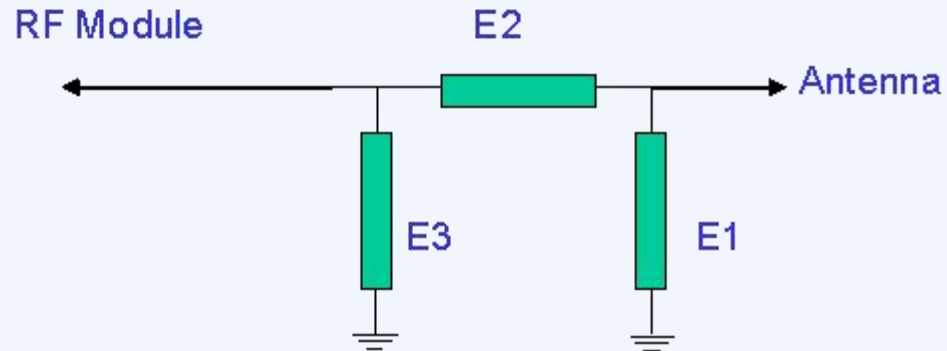
Agilent Technologies E5071B

Antenna Project Design and Debugging Instructions

Work FREQUENCY	2.4G:2400-2500MHz	Quality Tes- ting Engineer		Edition	DWM- V1.0
	Drawing of com- plete machine	Antenna matching circuit			
	Notes on the antenna of the entire device	Match Description			
	1. 2.4G antenna: PCB antenna	E1	NC		
E2		0Ω			
E3		NC			
2. The matching circuit remains unchanged.					

Description of Antenna Switch and Matching Circuit

Our company has not modified the original matching circuit of the antenna.

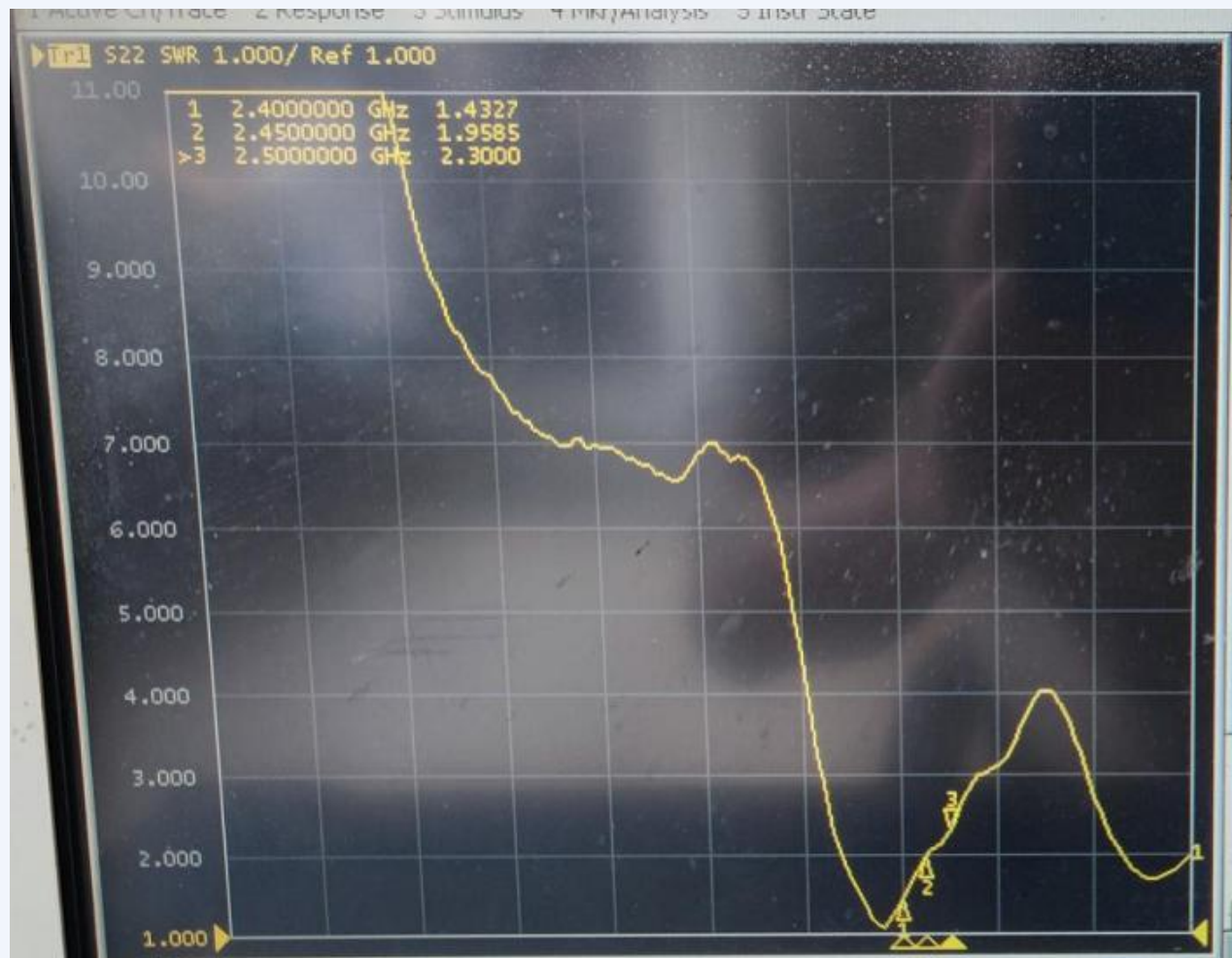


Element	Value
E1(0201)	NC
E2(0201)	0Ω
E3(0201)	NC

Test state diagram



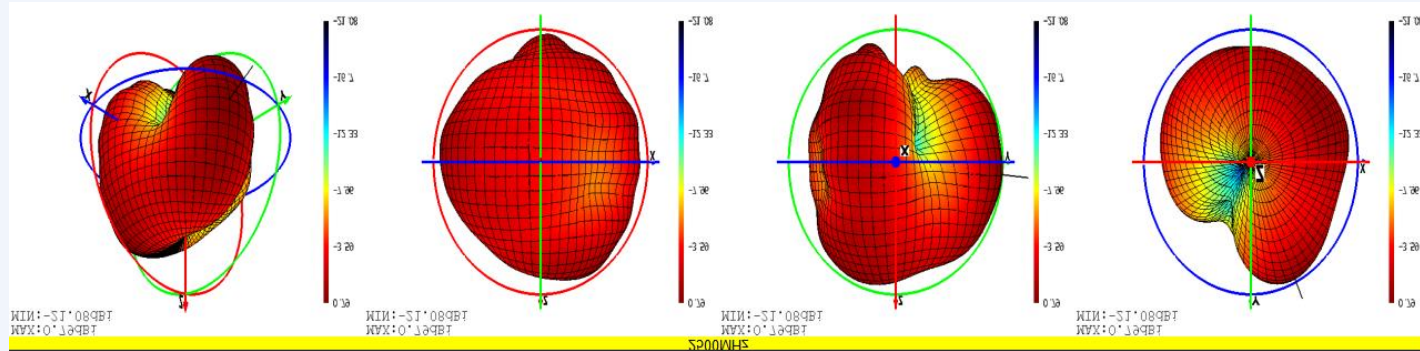
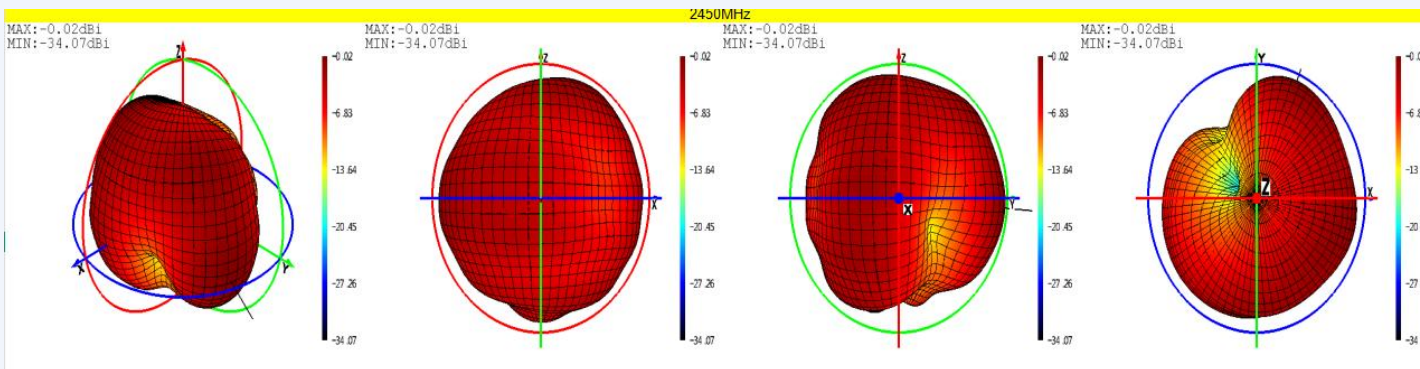
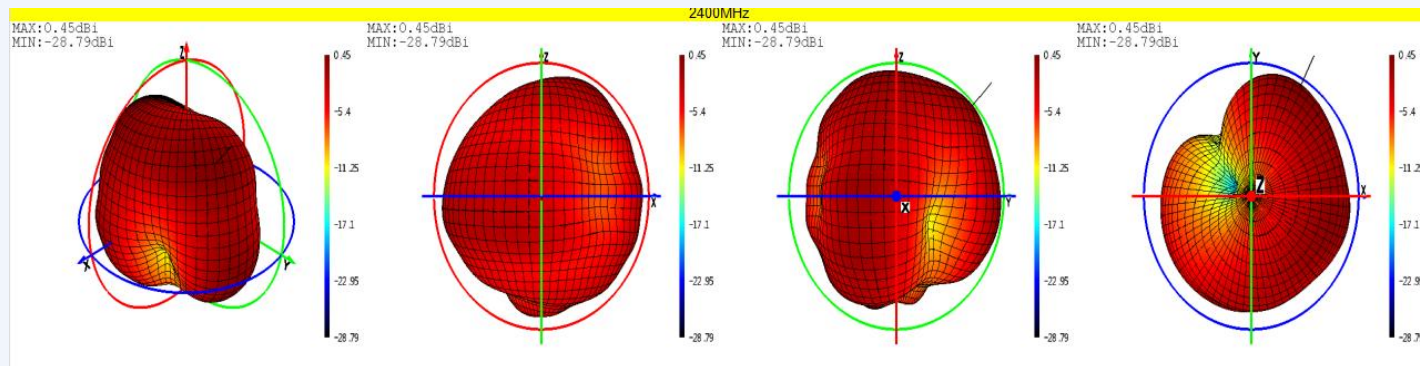
antenna standing wave
ratio



antenna gain, efficiency

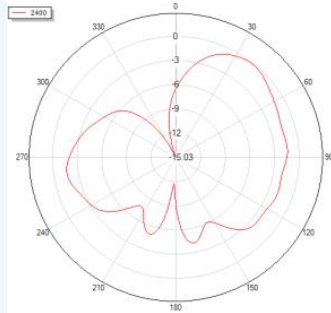
Frequency 频率(MHz)	Gain 增益(dBi)	Efficiency 效率(%)
2400.00	0.45	50.82
2410.00	0.60	53.01
2420.00	0.58	52.48
2430.00	-0.24	46.63
2440.00	-0.06	49.28
2450.00	-0.02	48.00
2460.00	0.47	54.22
2470.00	0.69	56.76
2480.00	0.75	58.21
2490.00	1.04	61.30
2500.00	0.79	57.58

3D antenna pattern

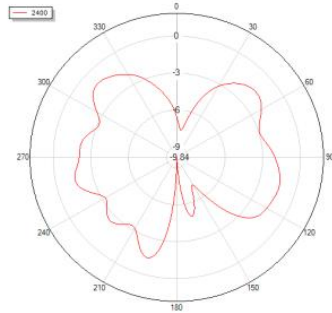


2D antenna pattern

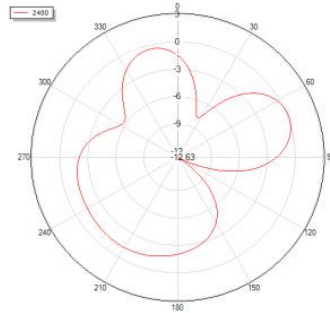
Phi=0 freq=2400MHz



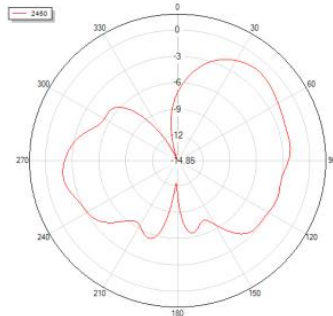
Phi=90 freq=2400MHz



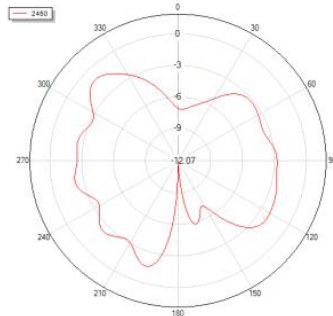
Theta=90 freq=2400MHz



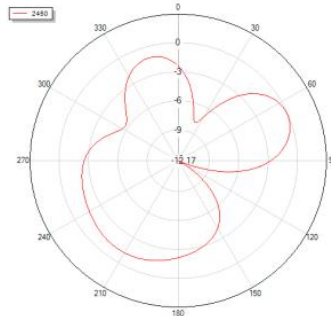
Phi=0 freq=2450MHz



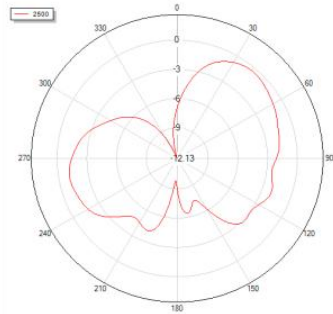
Phi=90 freq=2450MHz



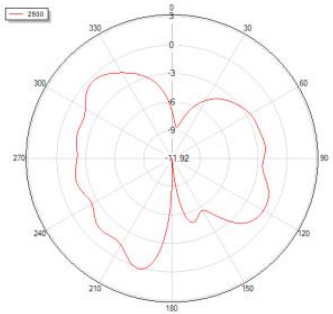
Theta=90 freq=2450MHz



Phi=0 freq=2500MHz



Phi=90 freq=2500MHz



Theta=90 freq=2500MHz

