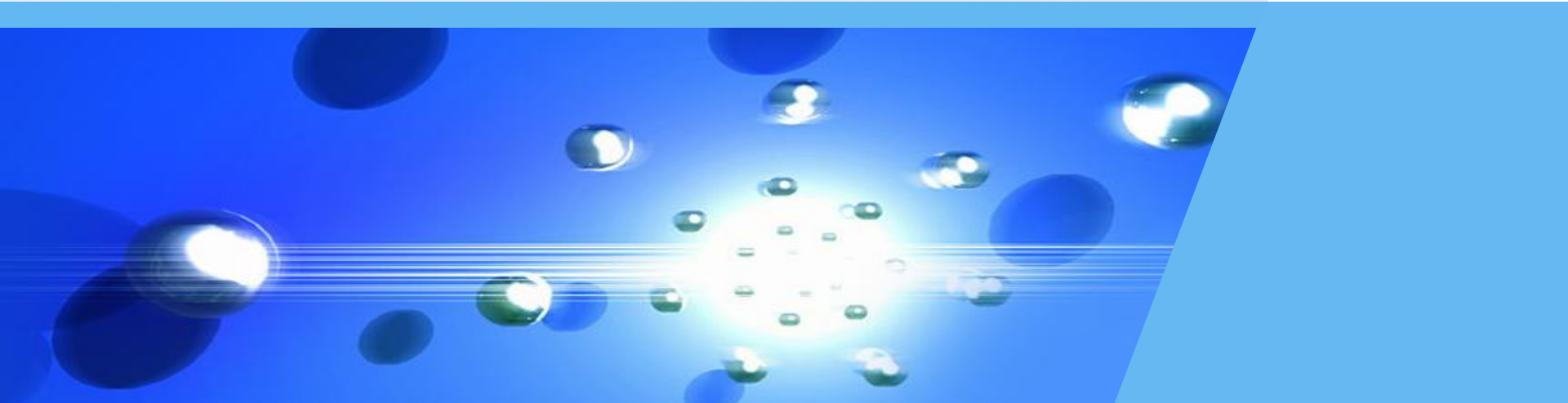




Shenzhen Hanhong Digital Technology Co., Ltd.

Antenna test report

Completion date: May 28,2025

Item Information

1

Hanhong

2

Project:S5000

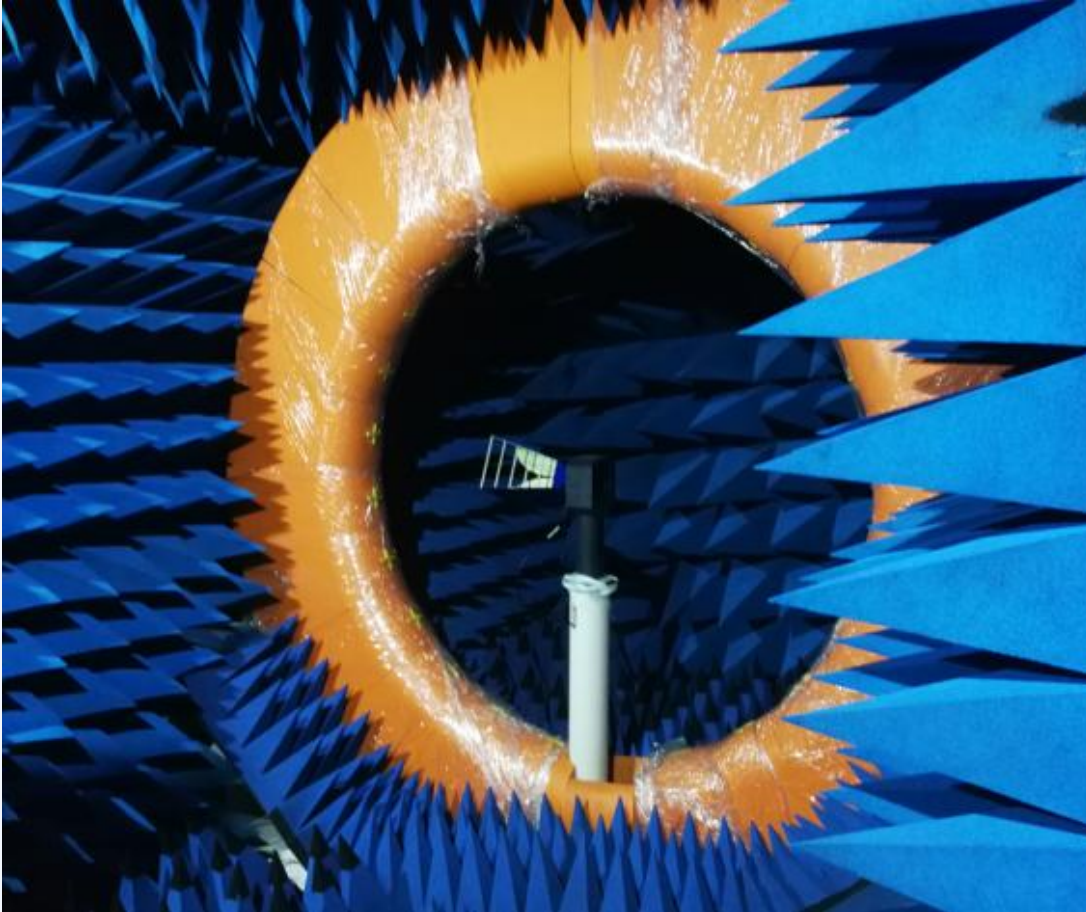
3

Band: 2.4G:2400-2500MHz

4

Note: Passive Testing

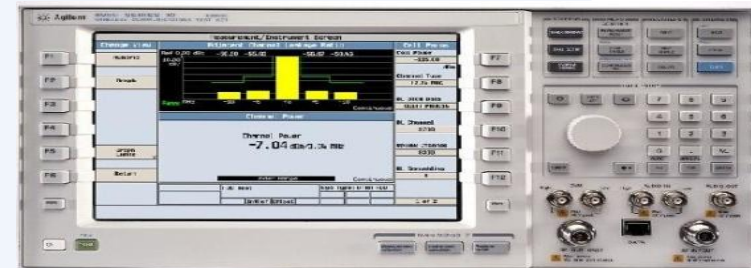
test equipment



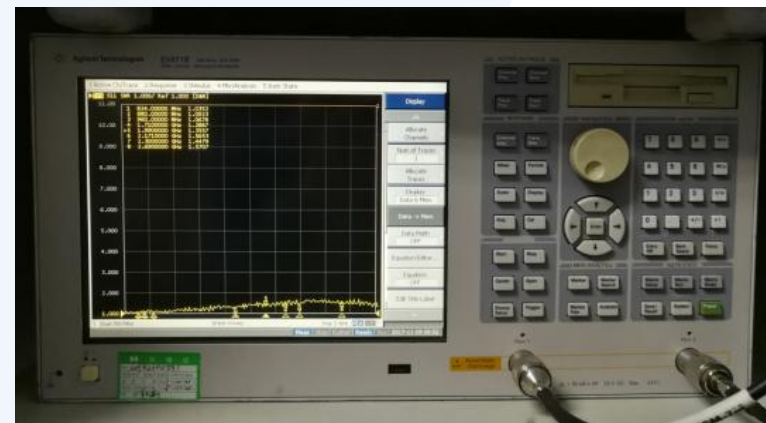
A 24-probe microwave chamber



R&S CMW500



Agilent E5515C



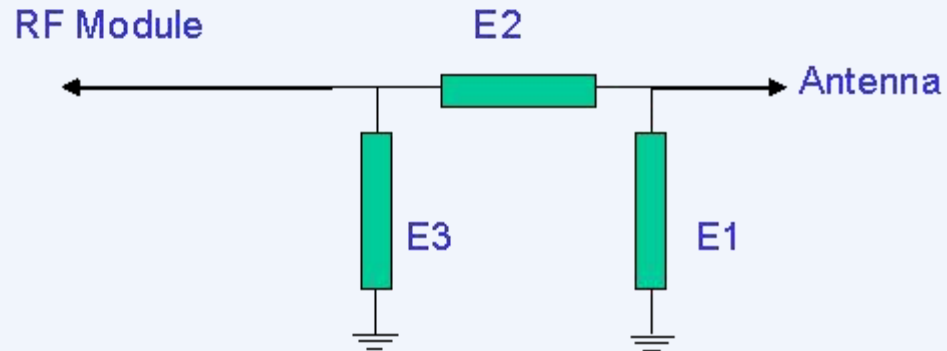
Agilent Technologies E5071B

Design and Debugging Instructions for Antenna Project

Frequency	2.4G:2400-2500MHz	Quality Testing Engineer		Edition	V1.0
	Drawing of complete machine	Antenna matching circuit			
	Antenna notes for the whole machine	Match Description			
1. 2.4G antenna: PIFA antenna	E1	NC			
	E2	0Ω			
	E3	NC			
2. The matching circuit remains unchanged.					

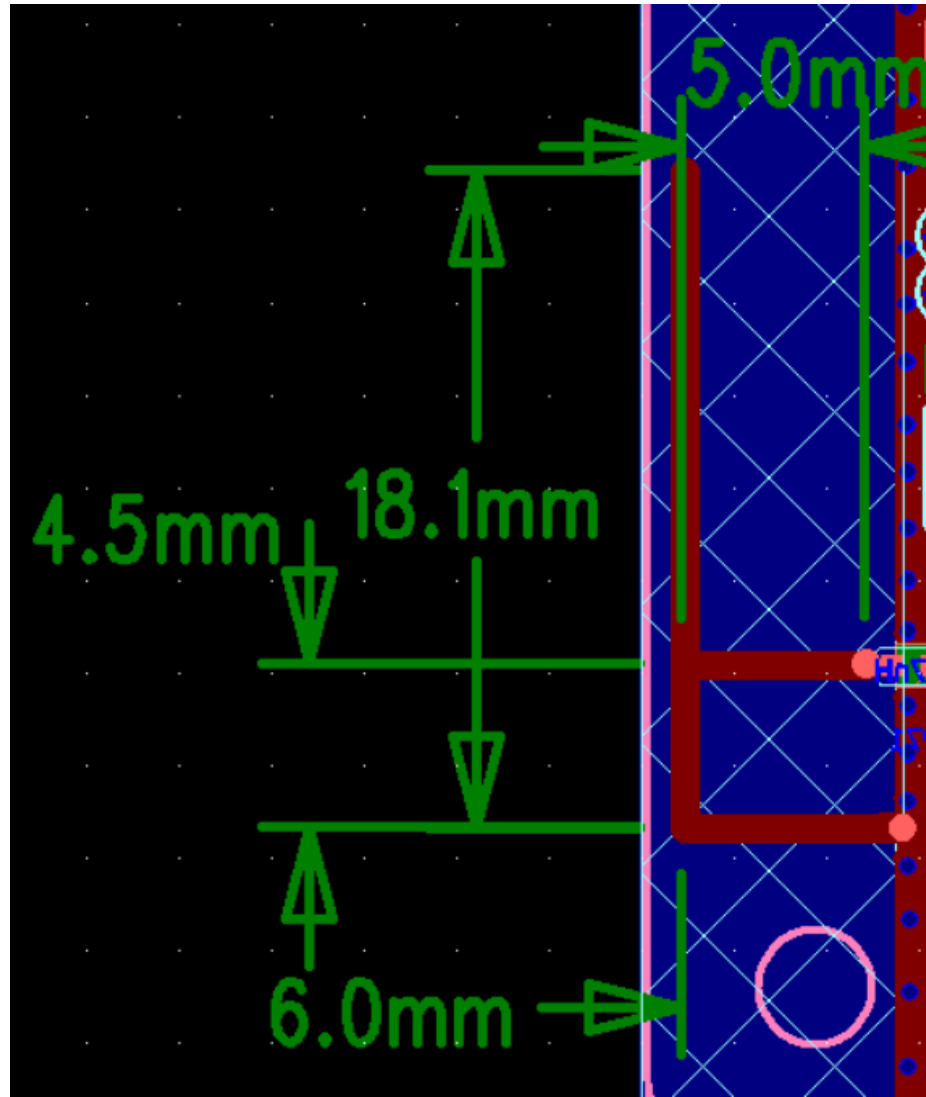
Description of Antenna Switch and Matching Circuit

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



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

Antenna size:



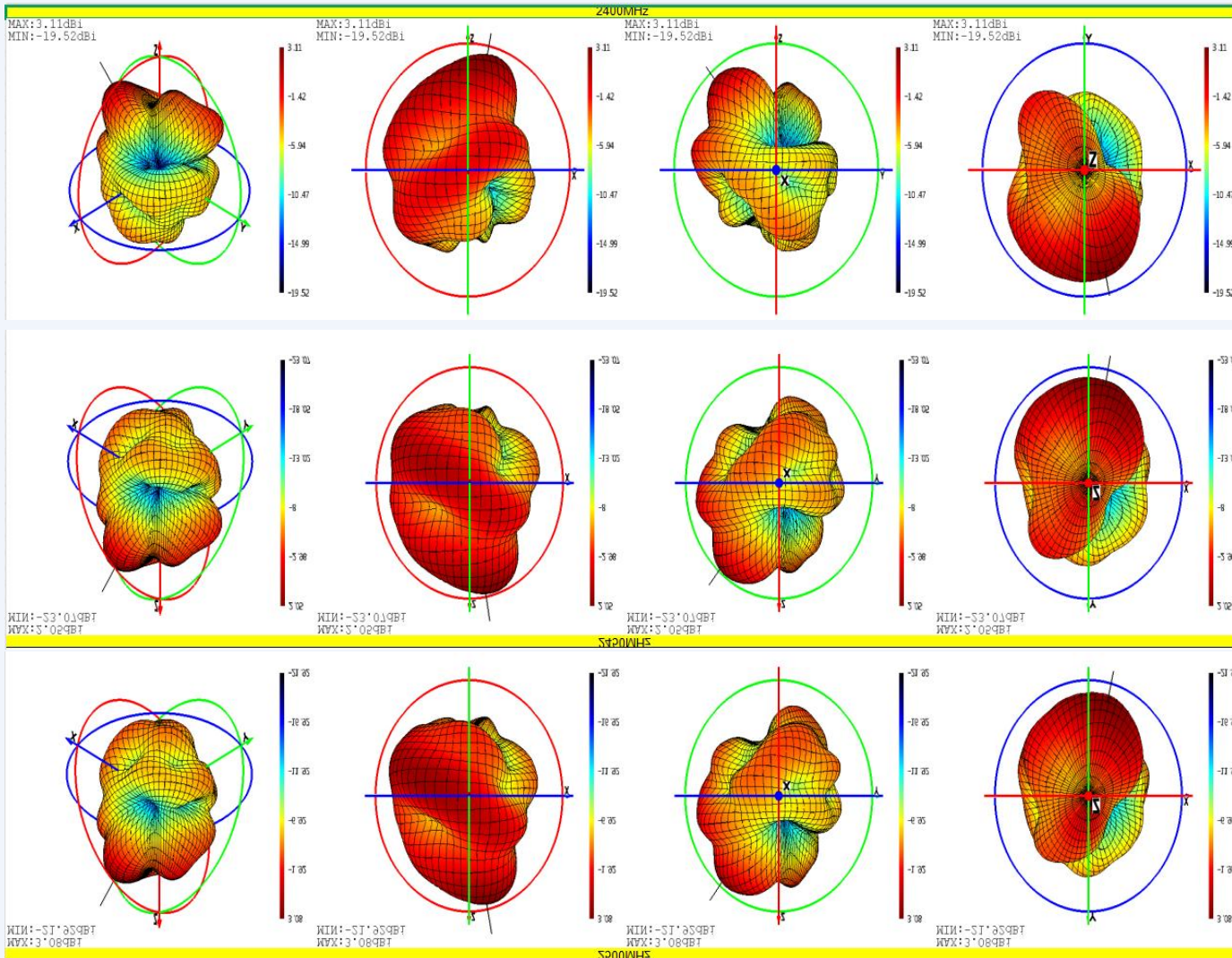
antenna standing wave ratio



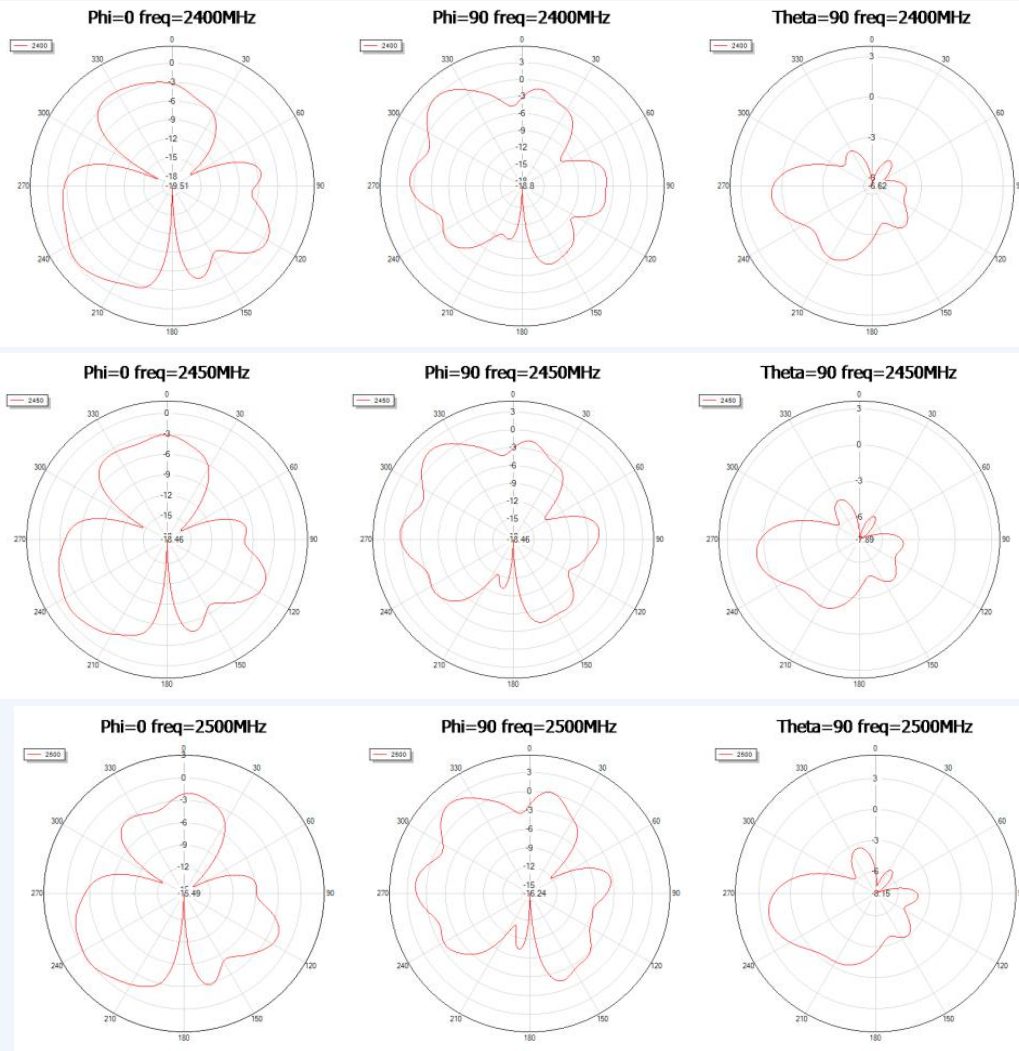
Antenna gain and efficiency

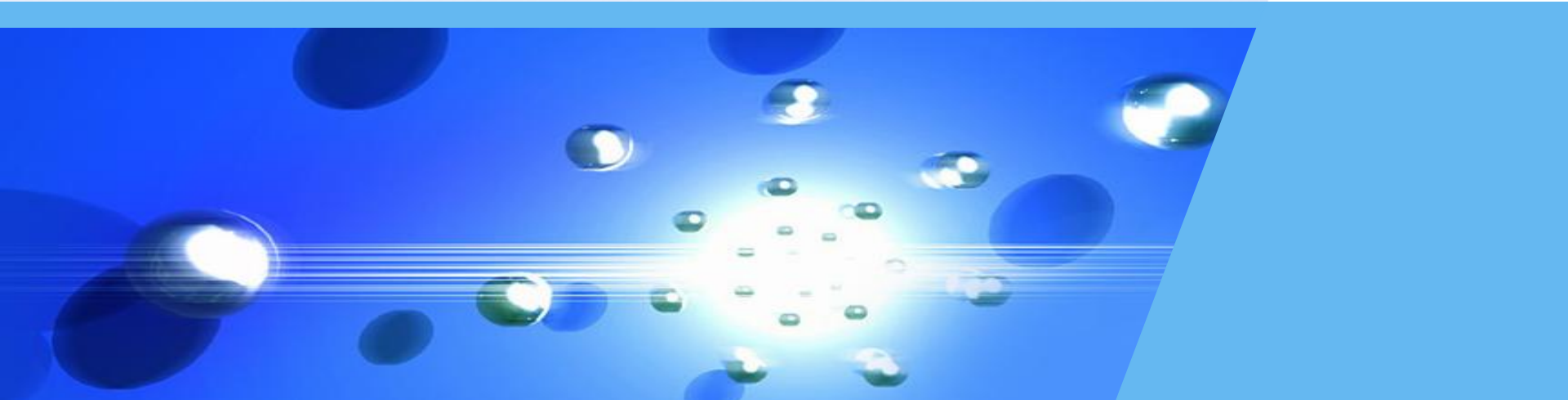
Frequency 频率(MHz)	Gain 增益(dBi)	Efficiency 效率(%)
2400.00	3.11	50.55
2410.00	3.01	52.16
2420.00	2.98	51.93
2430.00	2.78	50.51
2440.00	2.27	46.34
2450.00	2.05	44.47
2460.00	2.14	45.09
2470.00	2.29	45.90
2480.00	2.39	47.52
2490.00	2.80	51.91
2500.00	3.08	54.83

3D antenna pattern



2D antenna pattern





Thank You !

Company Address: Room No.303, Building A, Huafeng Internet-Innovation

Technology Park, Gonghe Industry Road No.107, Xixiang

Street, Baoan, Shenzhen, China