



Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna Testing Report

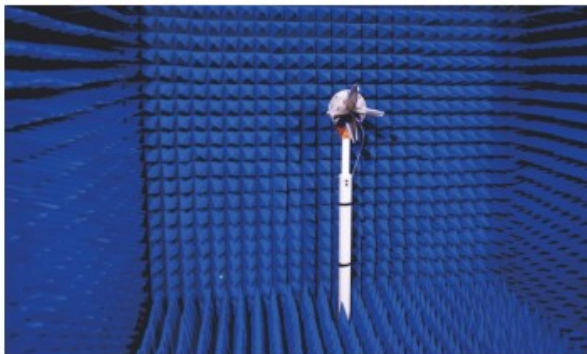
Client: Guangdong Welland Technology Co., Ltd.

Project: FG450WB

Antenna standard: BT

RF: 王志锋
TEL: 13823540870
TIME: 2025/11/09

1. Test Equipment

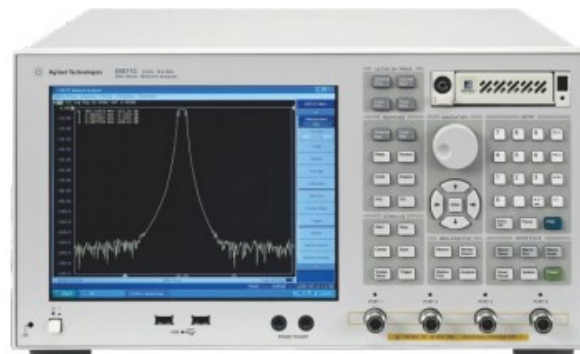


OTA-800

Brand: ET 

Frequency range: 370MHz-8.5GHz

Features: passive、active test; G net、C net、2G/3G/4G, WIFI and BT, TRP、TIS test.



5071C

Brand: Agilent 

Frequency range: 9KHz-8.5GHz

Features: 2G/3G/4G/BT/WIFI antenna comprehensive passive test.



8960

Brand: Agilent

Frequency range: 292MHz-2700GHz

Features: 2G/3G active test.



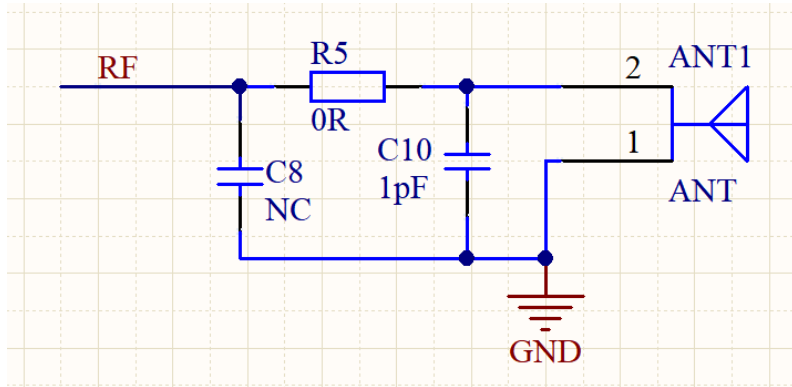
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

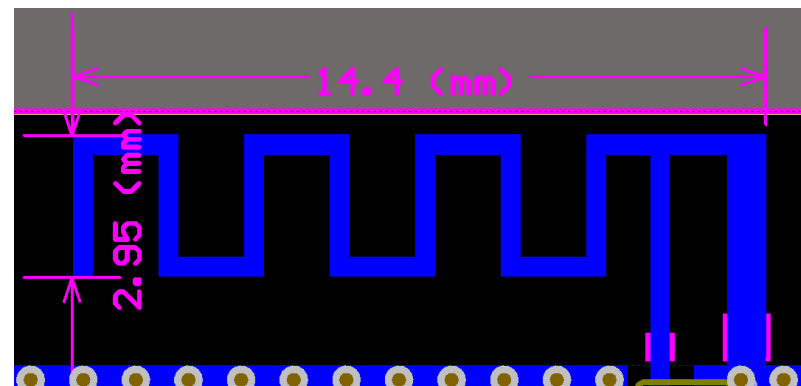
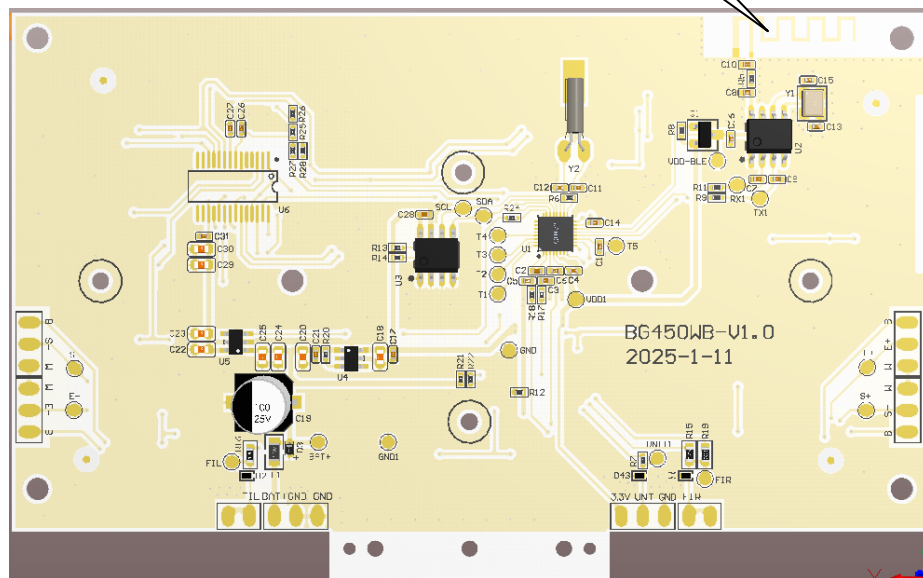
2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
C8(0402)	NC		
R5(0402)	0Ω		
C10(0402)	1pF		

3. Antenna assembly position

antenna position



Manufacturer: FOSHAN XINKEYUAN
ELECTRONICS CO LTD

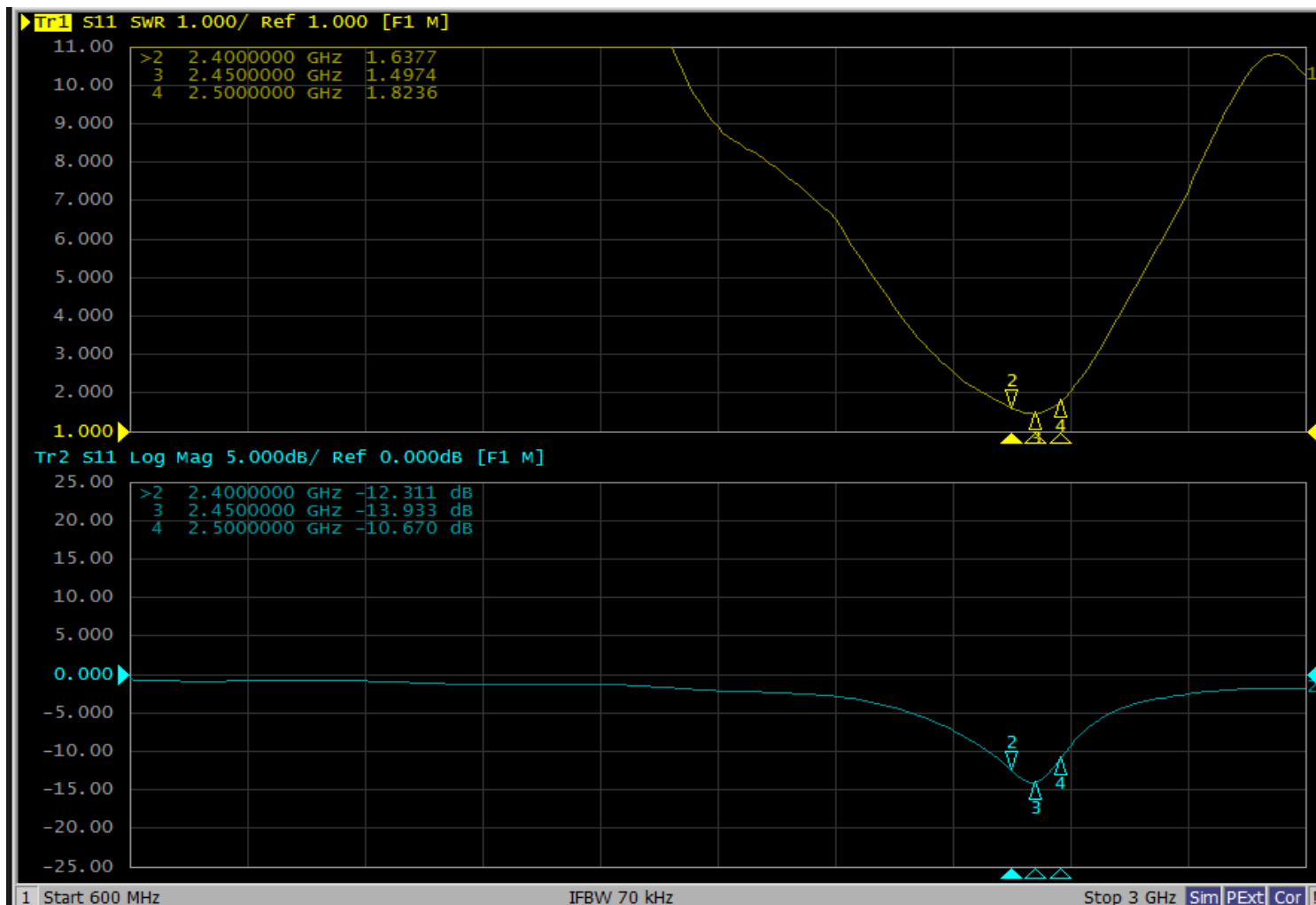
Address: HAITIAN AVENUE NO.1 CANGJIANG
INDUSTRIAL FOSHAN GUANGDONG CHINA

4.Electrical Parameter



Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤2.0
Input Impedance(Ω)	50
Gain(dBi)	-2.49
Polarization(°)	vertical
Max power(W)	0
Antenna Type	PCB Antenna
Working Temperature(°C)	-40~+80

5.Antenna Passive Data



6.Antenna Gain/Efficiency/3D Apple Chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	14.3	-3.73
2410	14.47	-3.53
2420	13.68	-3.6
2430	15.45	-2.74
2440	14.75	-2.65
2450	15.14	-2.49
2460	14.22	-2.7
2470	14.57	-2.69
2480	15.04	-2.71
2490	13.42	-3.27
2500	14.87	-2.86

