



Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna Testing Report

Client:

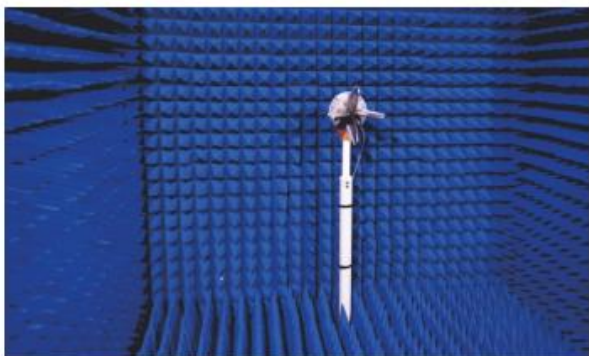
Project: R-MSC04

Antenna standard: BT

Manufacturer : HE SHAN RUN CHANG ELECTRON and ELECTRIC CO.,LTD
Address : HE SHAN ZHEN, BLK 1FIRST INDUSTRIAL ZONE
HESHAN, GUANGDONG 529727 CHINA

RF: 王志锋
TEL: 13823540870
TIME: 2025/7/09

1. Test Equipment

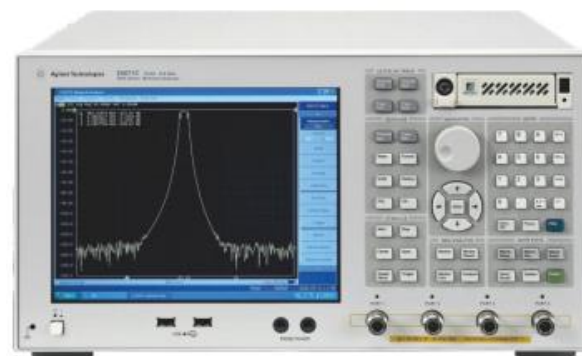


OTA-800

Brand: ETS ✓

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.



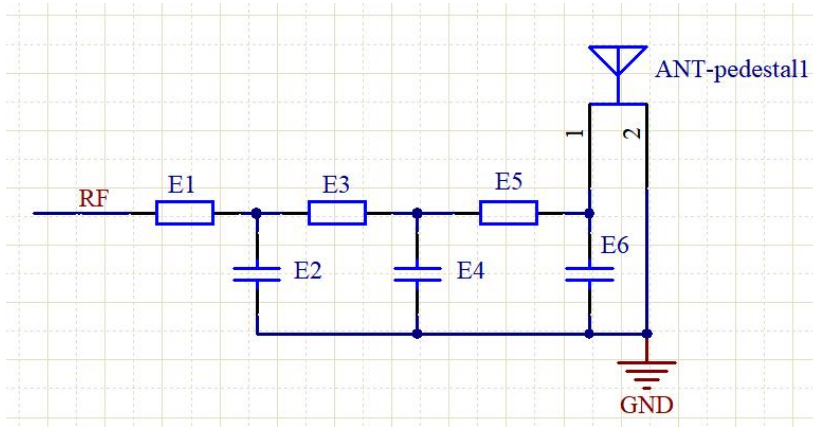
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

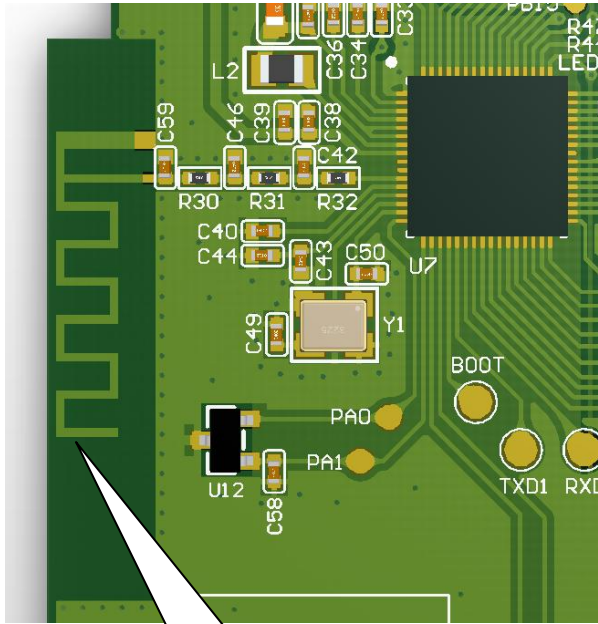
Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

2. Matching circuit

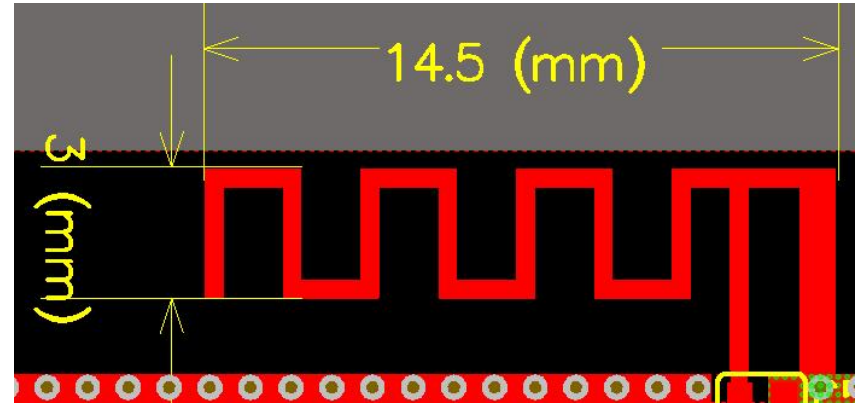


Element	MAIN	GPS/WIFI /BT	AUX
E1(0402)	0Ω		
E2(0402)	2pF		
E3(0402)	6.8nH		
E4(0402)	1.0pF		
E5(0402)	0Ω		
E6(0402)	NC		

3. Antenna assembly position



antenna position

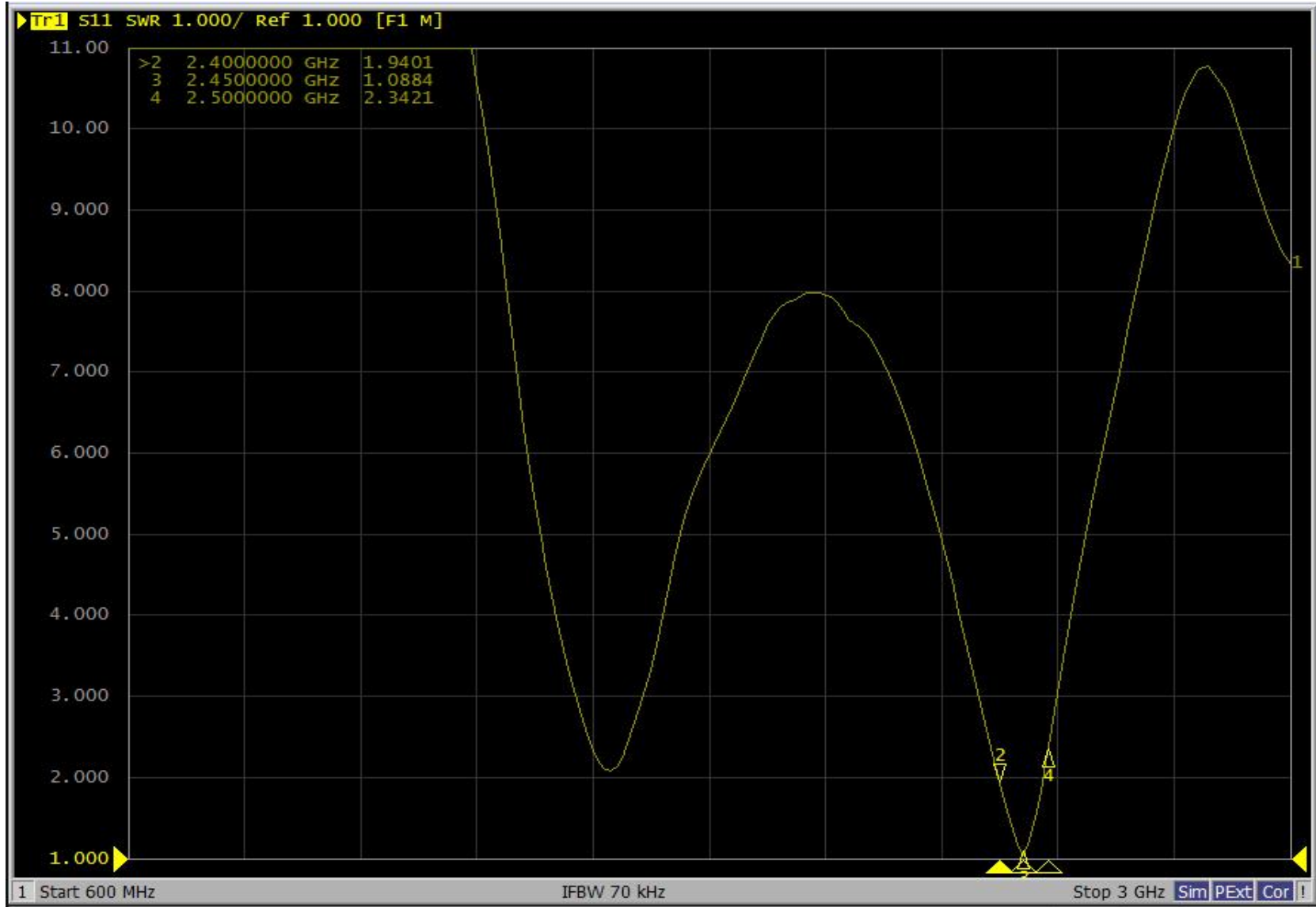


4.Electrical Parameter



Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤2.5
Input Impedance(Ω)	50
Gain(dBi)	-2.98
Polarization(°)	vertical
Max power(W)	10
Antenna Type	Monopole
Working Temperature(°C)	-40~+80

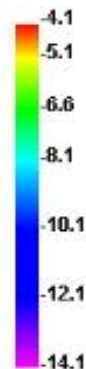
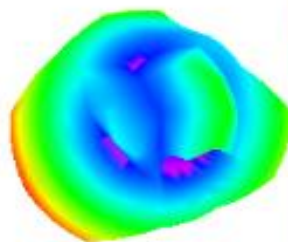
5.Antenna Passive Data



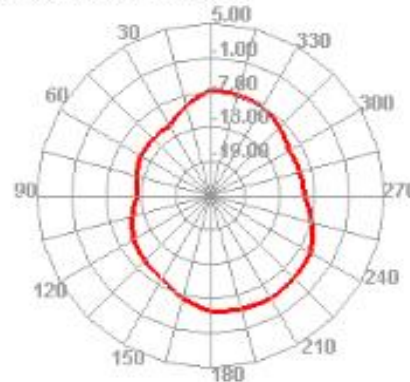
6.Antenna Gain/Efficiency/3D Apple Chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	12.1	-3.02
2410	12.45	-2.98
2420	12.36	-3.35
2430	13.66	-3.25
2440	13.72	-3.63
2450	13.69	-4.11
2460	12.98	-4.72
2470	12.99	-4.77
2480	12	-4.78
2490	11.3	-4.89
2500	11.64	-4.93

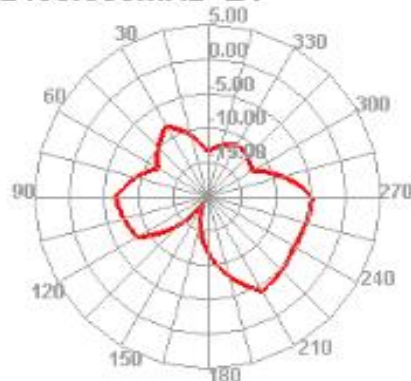
2450.000MHz



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

