



Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna Testing Report

Client: Guangdong Welland Technology Co., Ltd.

Project: FG2319WB-D

Antenna standard: BT

Manufacture Address: 505, Building 8, Nanshan
Yungu Phase II, Taoyuan Street, Nanshan District,
Shenzhen City, Guangdong, China

1. Test Equipment

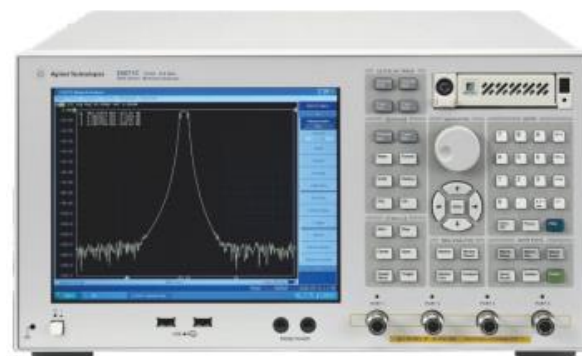


OTA-800

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.



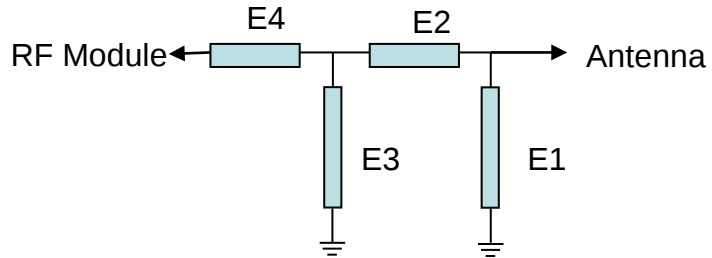
CMW500

Brand: Rohde & Schwarz

Frequency range: 70KHz-6GHz

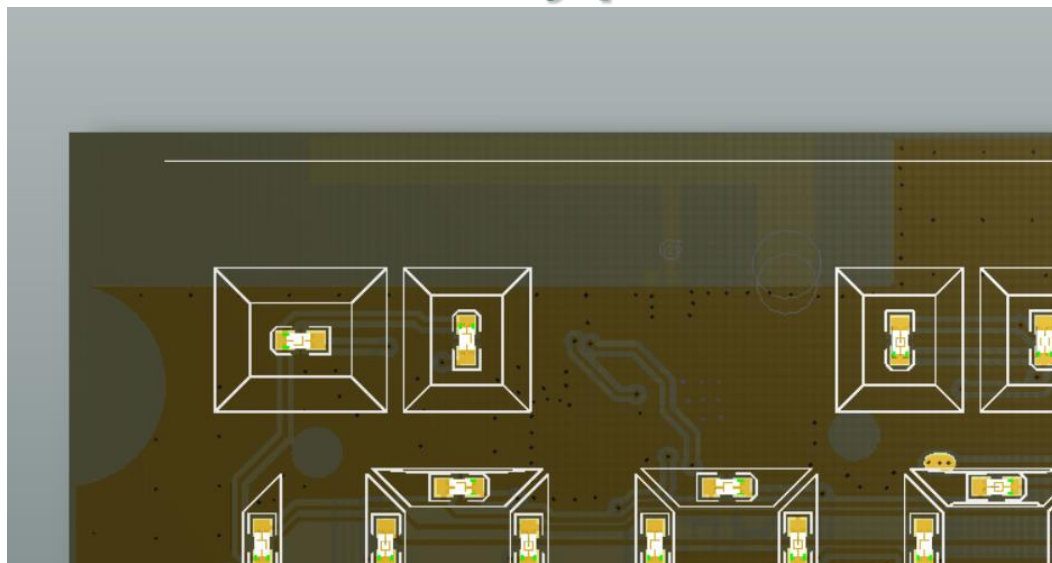
Features: 2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test.

2. Matching circuit

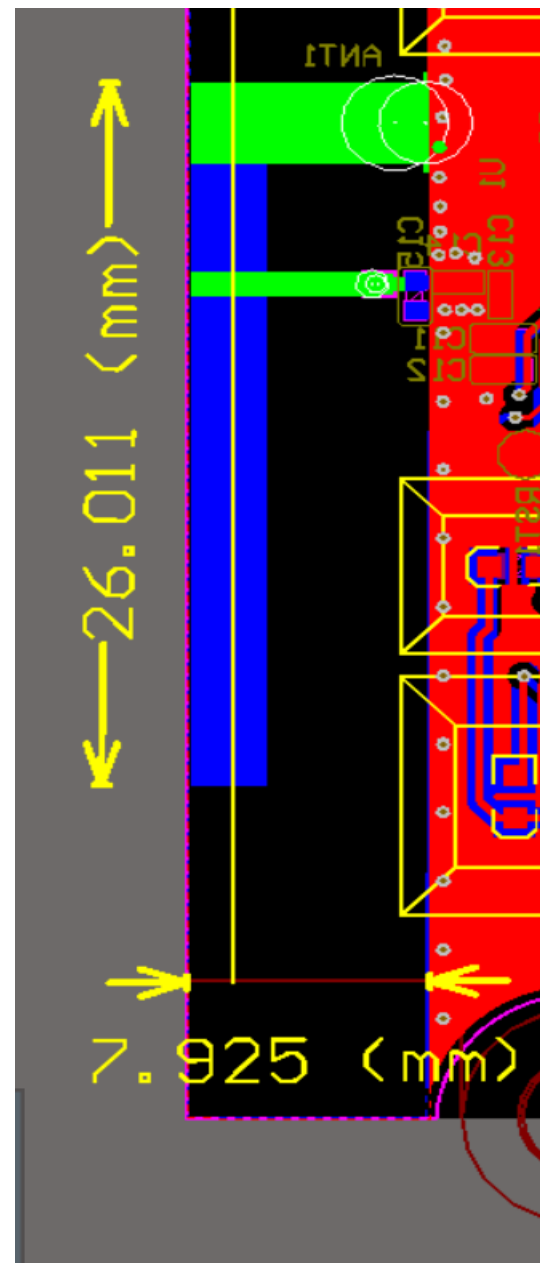


Element	MAIN	GPS/WIFI /BT	AUX
E1(0201)	N/A		
E2(0201)	0Ω		
E3(0201)	N/A		
E4(0201)	0Ω		

3. Antenna assembly position



antenna position



4.Electrical Parameter



Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤7.0
Input Impedance(Ω)	50
Gain(dBi)	-0.61
Polarization(°)	vertical
Max power(W)	10
Antenna Type	PCB Antenna
Working Temperature(°C)	-40~+80

5. Antenna Passive Data

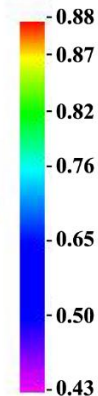
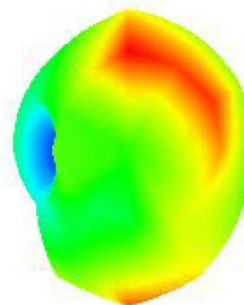


6.Antenna Gain/Efficiency/3D Apple Chart

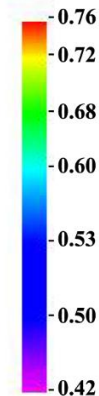
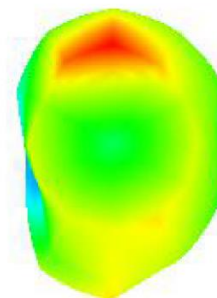


Freq (MHz)	Effi (%)	Gain (dBi)
2400	1.6	-0.89
2410	1.36	-0.87
2420	1.7	-0.86
2430	1.45	-0.85
2440	1.42	-0.79
2450	1.18	-0.78
2460	1.63	-0.77
2470	1.01	-0.76
2480	1	-0.69
2490	0.73	-0.61
2500	1.42	-0.67

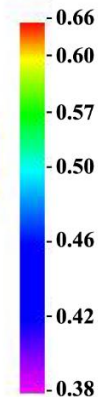
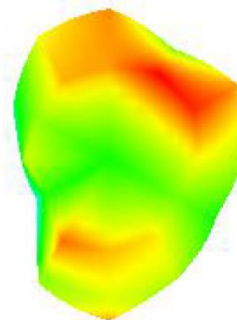
2400.000MHz



2450.000MHz

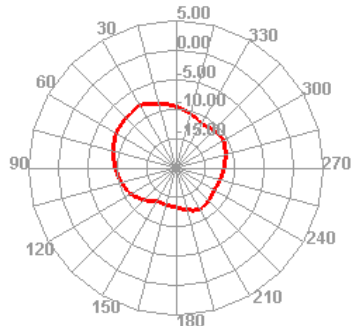


2500.000MHz

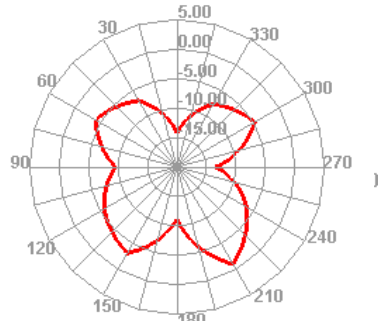


7.Antenna Direction Map

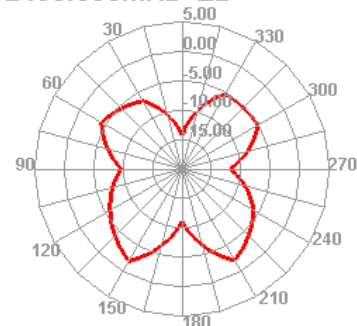
2400.000MHz H



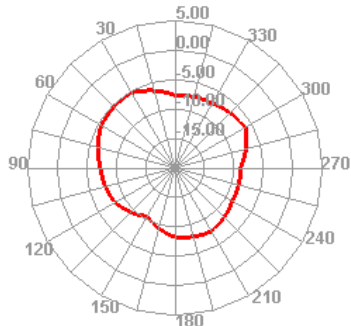
2400.000MHz E1



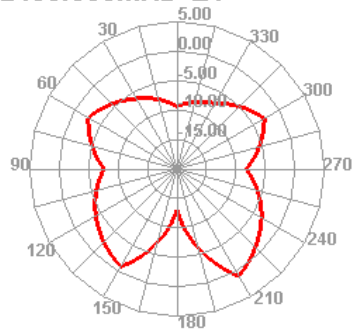
2400.000MHz E2



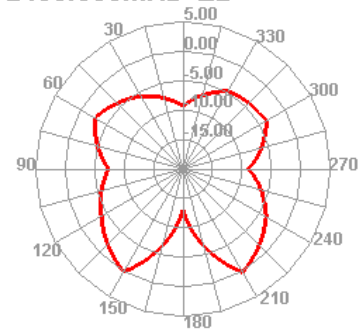
2450.000MHz H



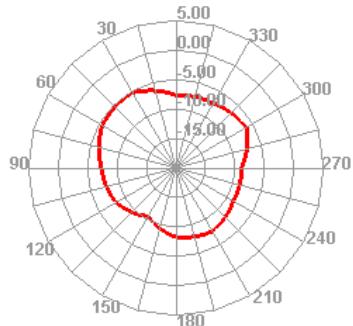
2450.000MHz E1



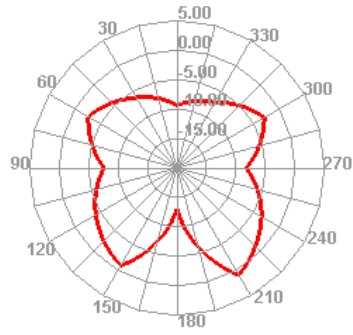
2450.000MHz E2



2450.000MHz H



2450.000MHz E1



2450.000MHz E2

