Shenzhen DBT Telecommunication Technology CO.,LTD
Antenna Testing Report

Client： Guangdong Welland Technology Co., Ltd.

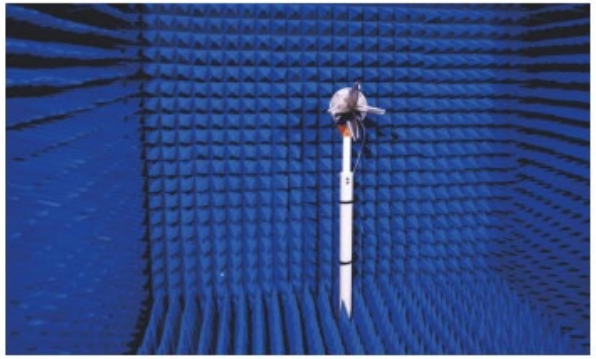
Project： FG2317WB-A

Antenna standard： BT

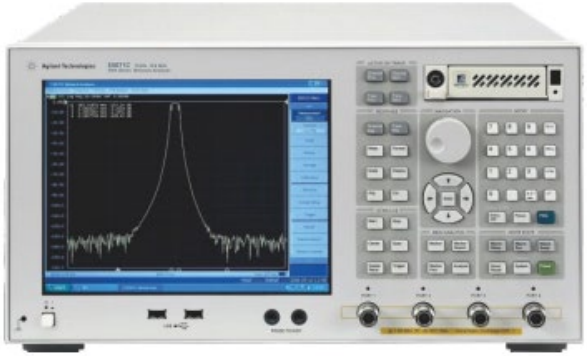
Manufacturer Address： Building 8, Nanshan Yungu, Taoyuan Street, Nanshan District, Shenzhen, China

RF：王志锋
TEL: 13823540870
TIME: 2019/11/09

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.

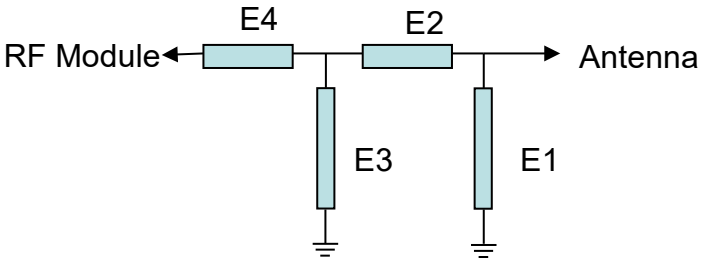


5071C
Brand：Agilent
Frequency range：9KHz-8.5GHz
Features：2G/3G/4G/BT/WIFI antenna comprehensive passive test。

8960
Brand：Agilent
Frequency range：292MHz-2700GHz
Features：2G/3G avtive test。

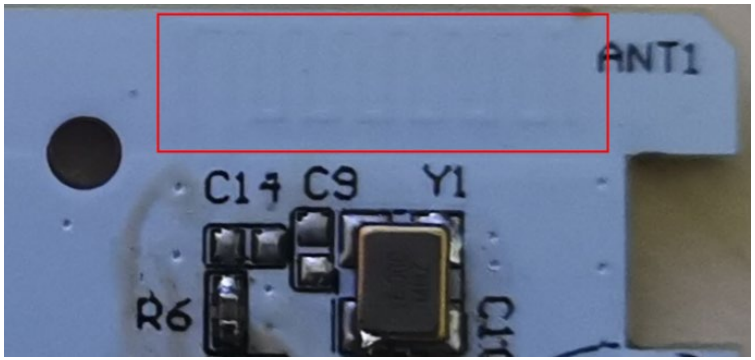
CMW500
Brand：Rohde & Schwarz
Frequency range：70KHz-6GHz
Features：2G/3G/4G/BT/WIFI/NB-Lot antenna comprehensive passive test。

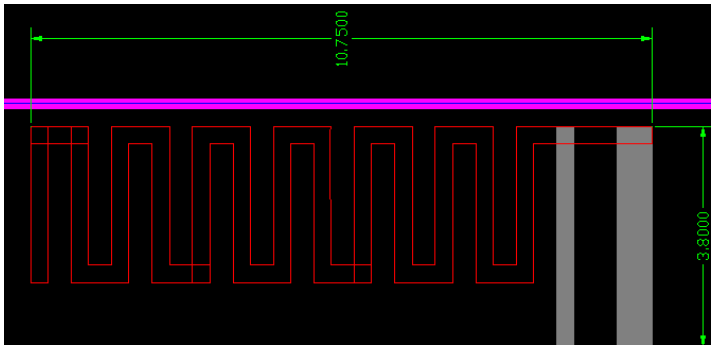
2. Matching circuit



Element	MAIN	GPS/WIFI /BT	AUX
E1(0201)	N/A		
E2(0201)	1.2pF		
E3(0201)	10pF		
E4(0201)	0Ω		

3.Antenna assembly position





antenna position

antenna position

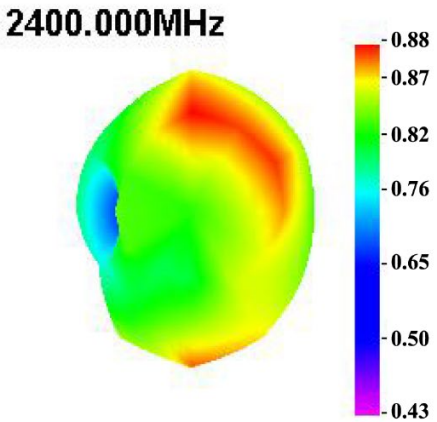
4.Electrical Parameter

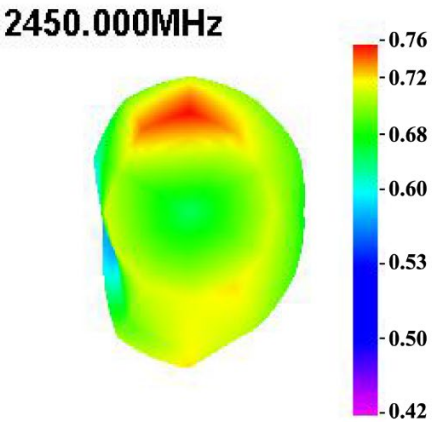
Electrical Parameter	
Frequency Range (MHz)	2400~2500
VSWR	≤7.0
Input Impedance(Ω)	50
Gain(dBi)	0.89
Polarization(°)	vertical
Max power(W)	10
Antenna Type	Monopole
Working Temperature(℃)	-40~+80

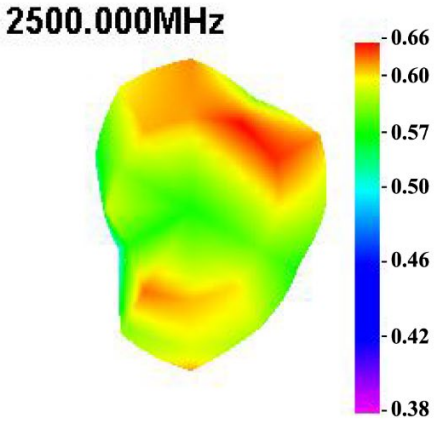
5.Antenna Passive Data

6.Antenna Gain/Efficiency/3D Apple Chart

Freq (MHz)	Effi (%)	Gain (dBi)
2400	1.6	0.89
2410	1.36	0.87
2420	1.77	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

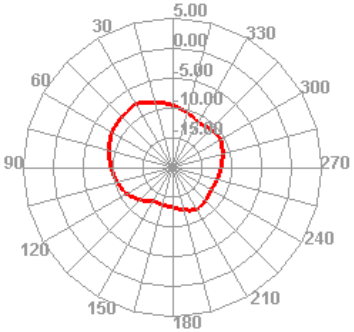




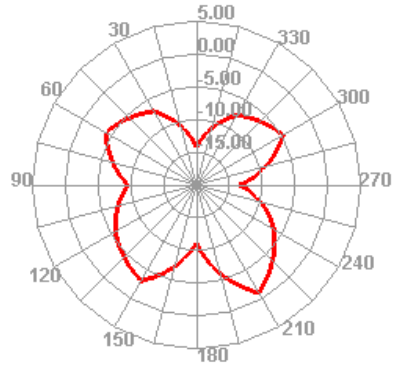


7.Antenna Direction Map

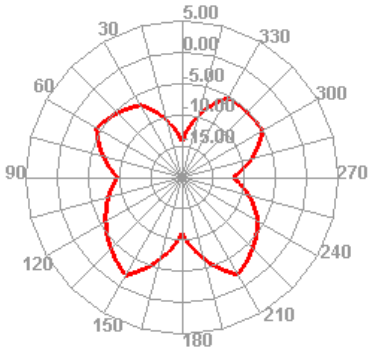
2400.000MHz H

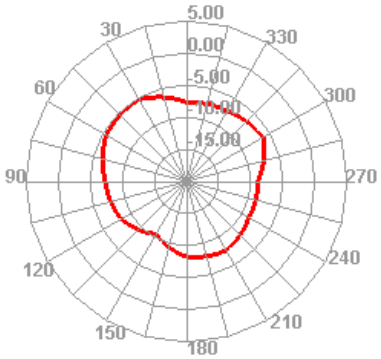


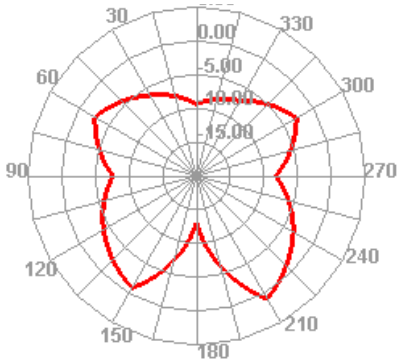
2400.000MHz E1

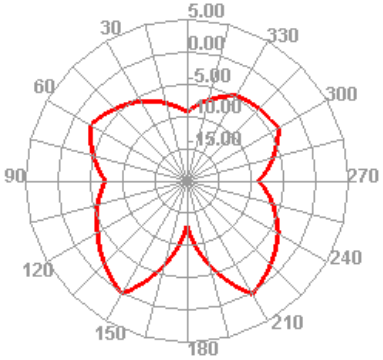


2400.000MHz E2

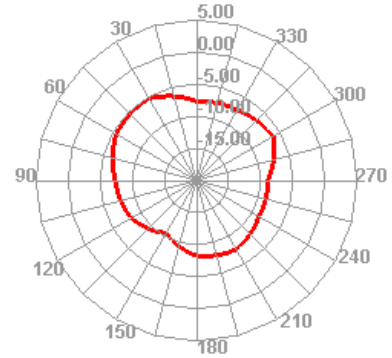




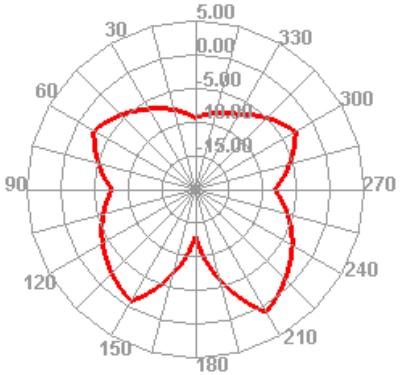
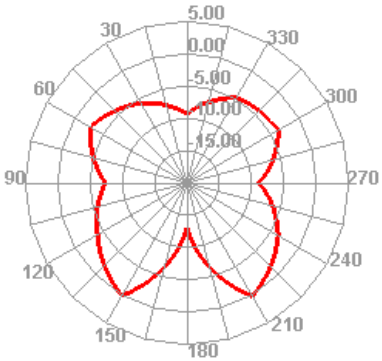




2450.000MHz H



2



2450.000MHz E2