



天线测试报告

Antenna test report

Porject BT Antenna

Ant.TYPE PCB

Tester Gaofu.Xu许高富

Approved by Jifei.Zhu朱记飞

Date 2023-10-24

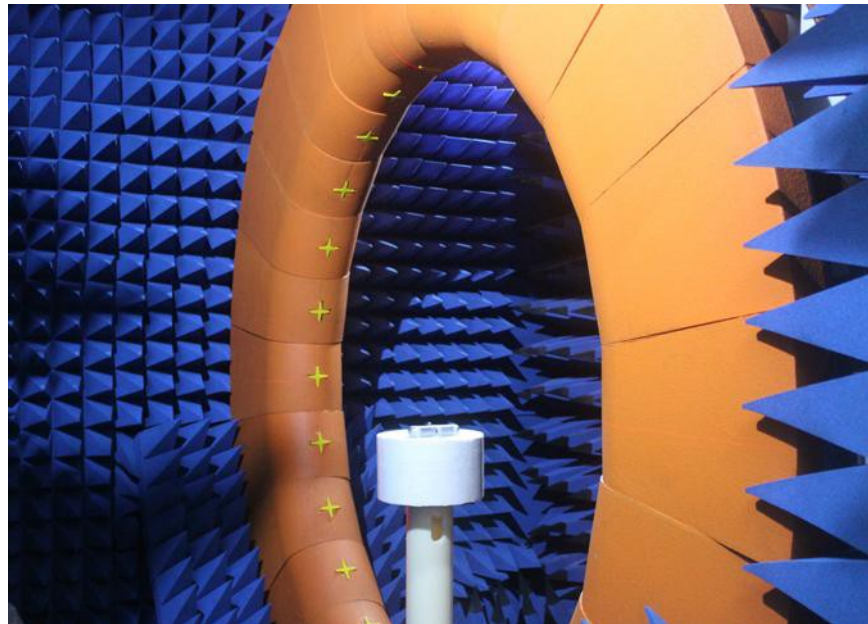


测试设备

Test equipment

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Test equipment



Probe microwave darkroom

➤ Frequency: 0.4GHz to 6GHz

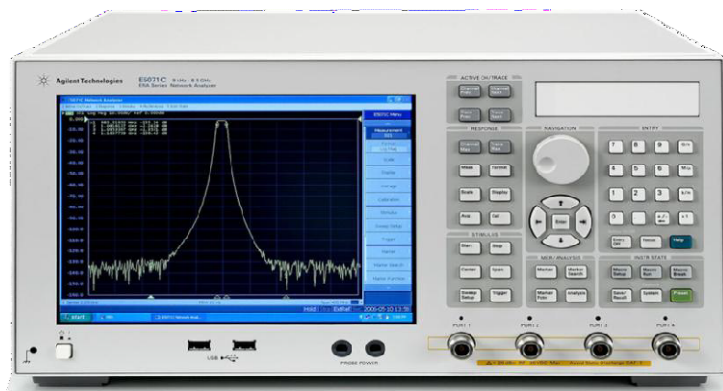
Main test item

- ◆ passive
- ◆ gain
- ◆ efficiency
- ◆ 3D direction diagram

- Active item
- TRP (Total radiation power)
- TIS (Total receiving sensitivity)



测试设备 Test equipment



Agilent E5071C
(vector network analyzer)

- Frequency: 300 kHz to 8.5GHz



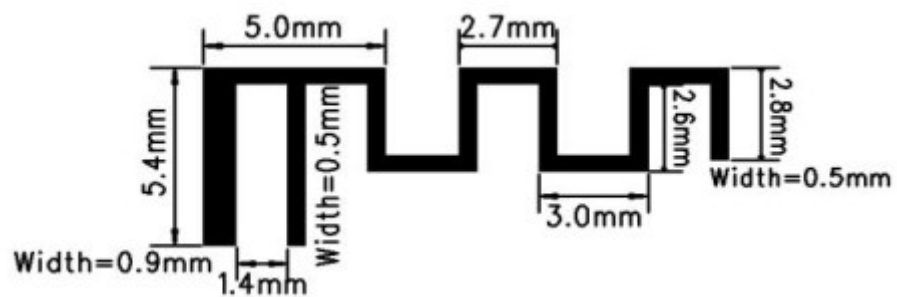
R&S CMW500 (Broadband wireless
communication tester)

- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT



天线尺寸

Passive antenna size

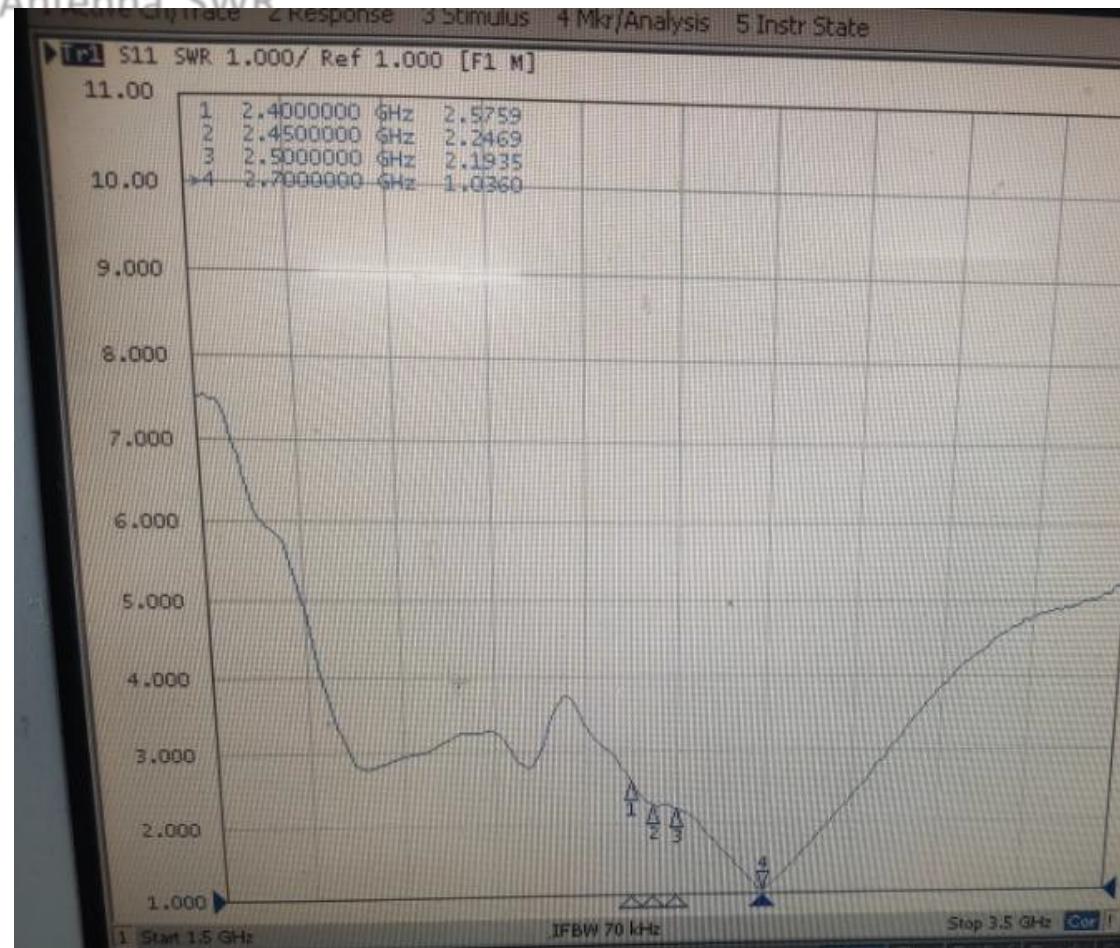


天线驻波比

Antenna SWR

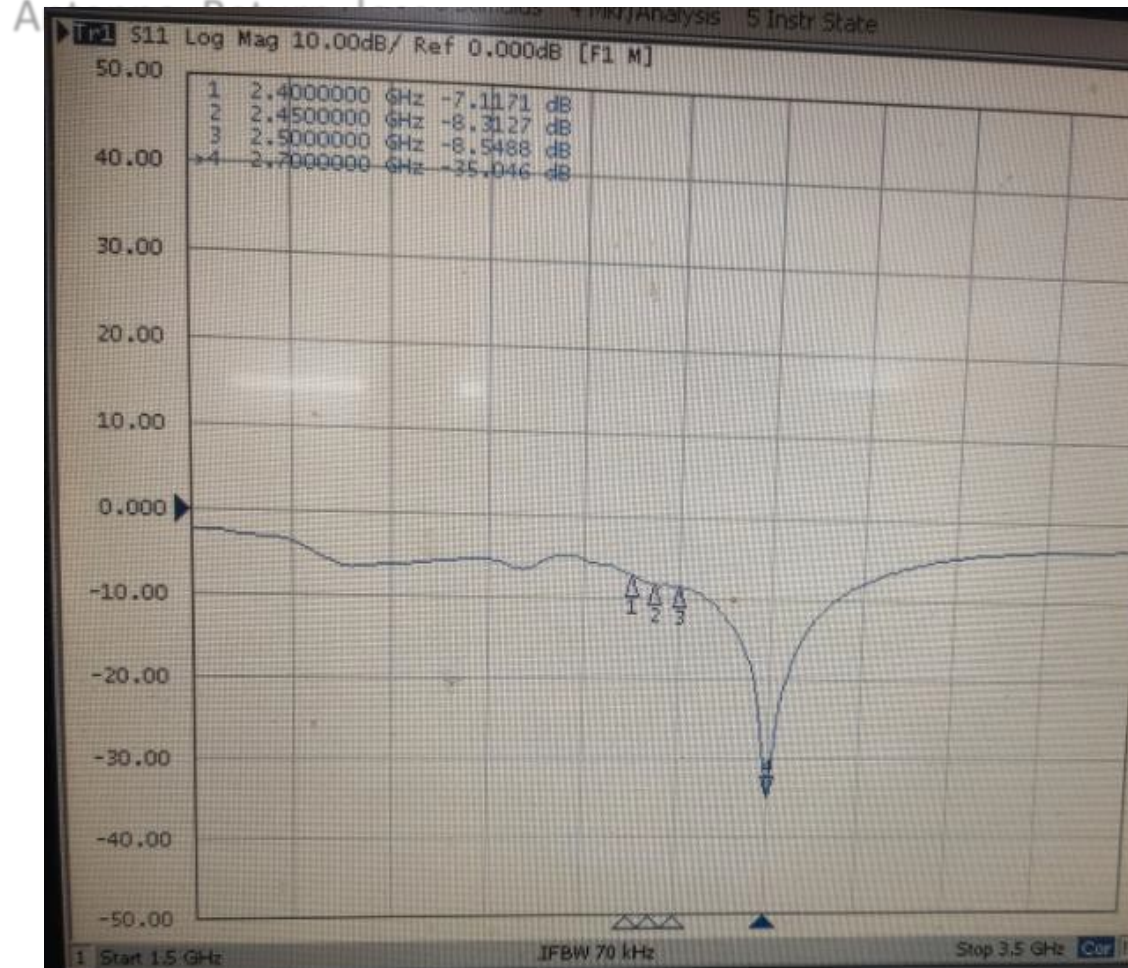
天线驻波比

Antenna SWR



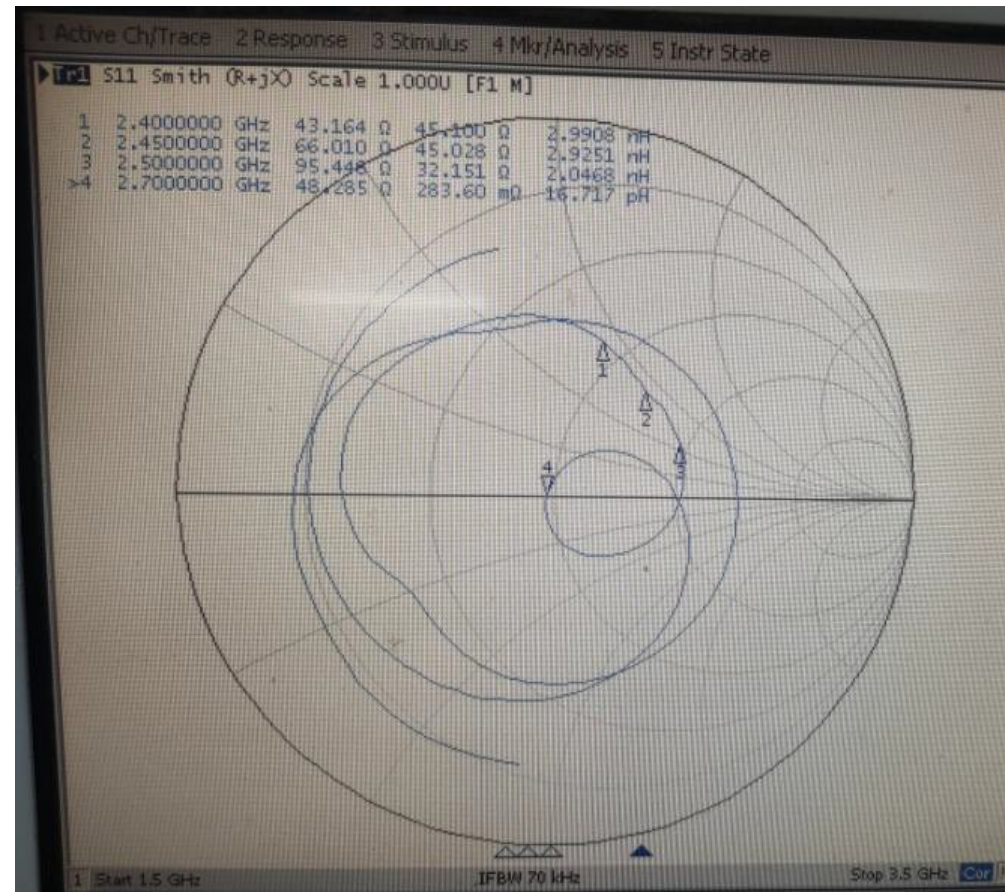
天线回波损耗

Antenna Return loss





Smith 圆图



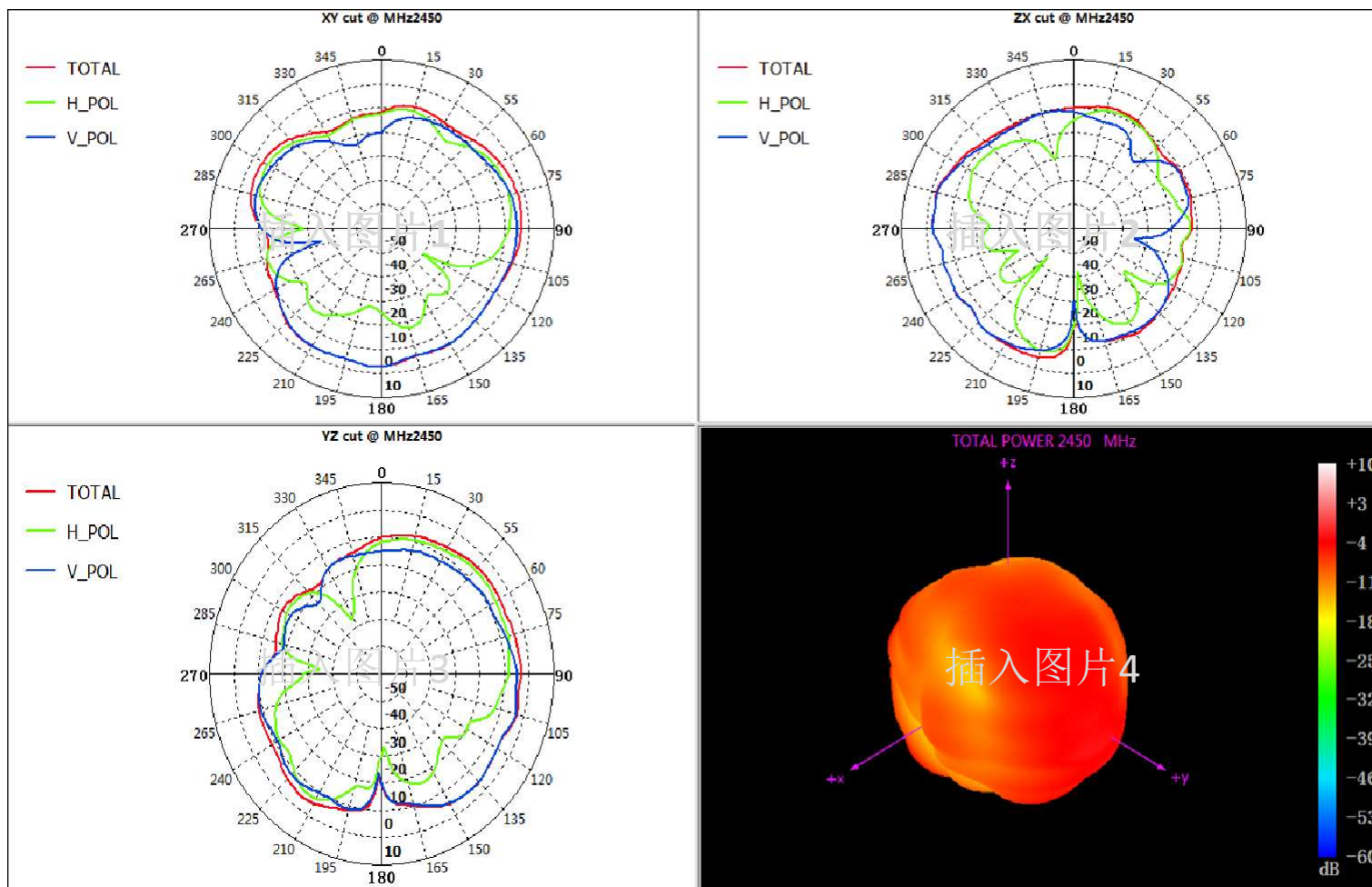


天线增益与效率
Antenna gain and efficiency

Antenna		
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400 MHz	19.65	-2.26
2410 MHz	18.89	-2.15
2420 MHz	19.51	-1.97
2430 MHz	20.08	-1.8
2440 MHz	20.21	-1.51
2450 MHz	20.71	-1.9
2460 MHz	21.35	-1.66
2470 MHz	21.76	-1.26
2480 MHz	21.7	-1.2
2490 MHz	22.22	-0.71
2500 MHz	22.28	0



天线辐射方向图 Antenna Radiation Pattern



Thanks for your support!
感谢您的支持!

深圳市宝安区西乡固戍恒南一路C栋303
TEL:(86)755-23035723. FAX:0755-23036702
E-mail:ant001@fmant.cn
ADD: 303, building C,GUSHU Hengnan Road,Xixiang,Baoan district Shenzhen