

Antenna specification



天线测试报告

Antenna test report

项目型号/Item type

2.4G ANT

天线型号/Antenna Model

测试/Test

Yueer Wei

检查/check

Xingxi Xia

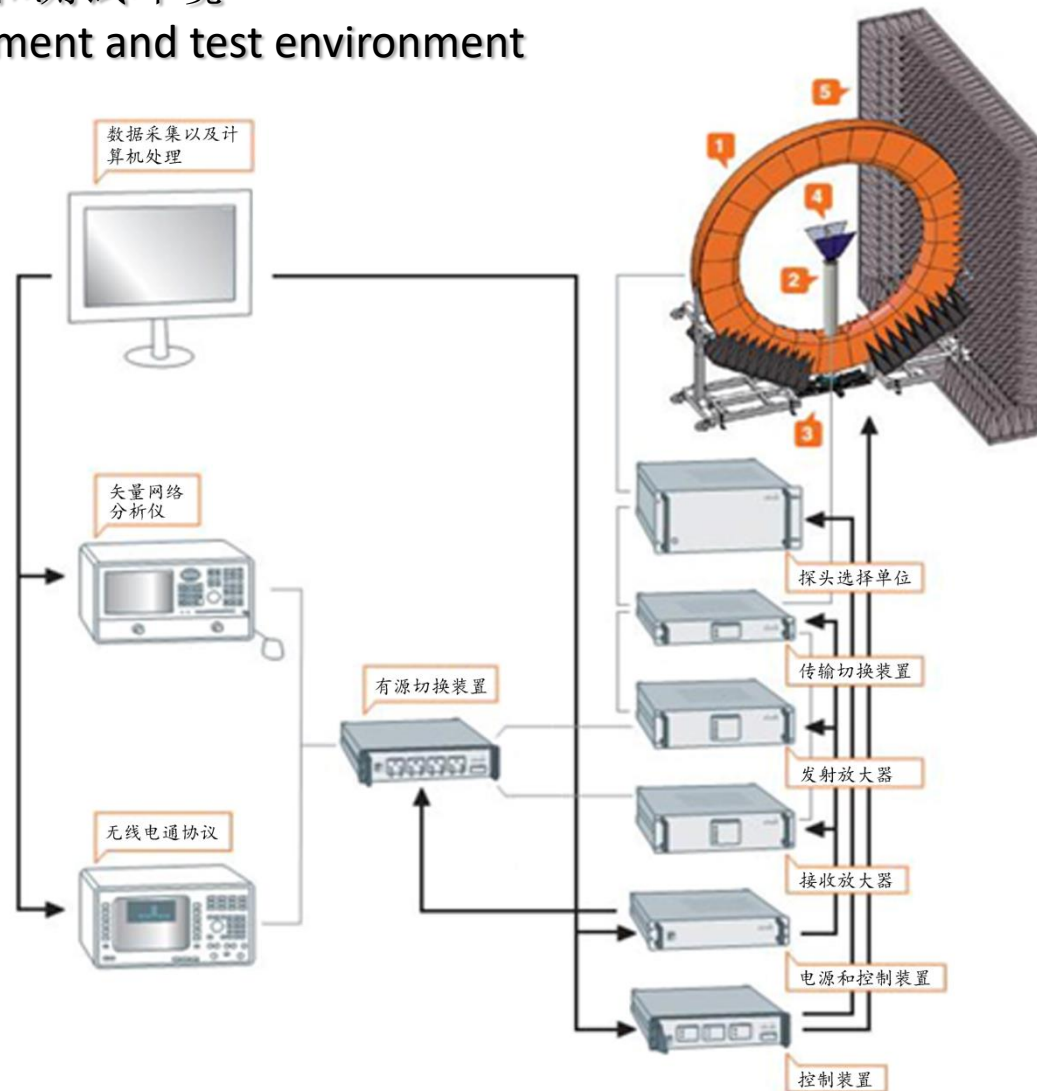
日期/Date

2022-05-24



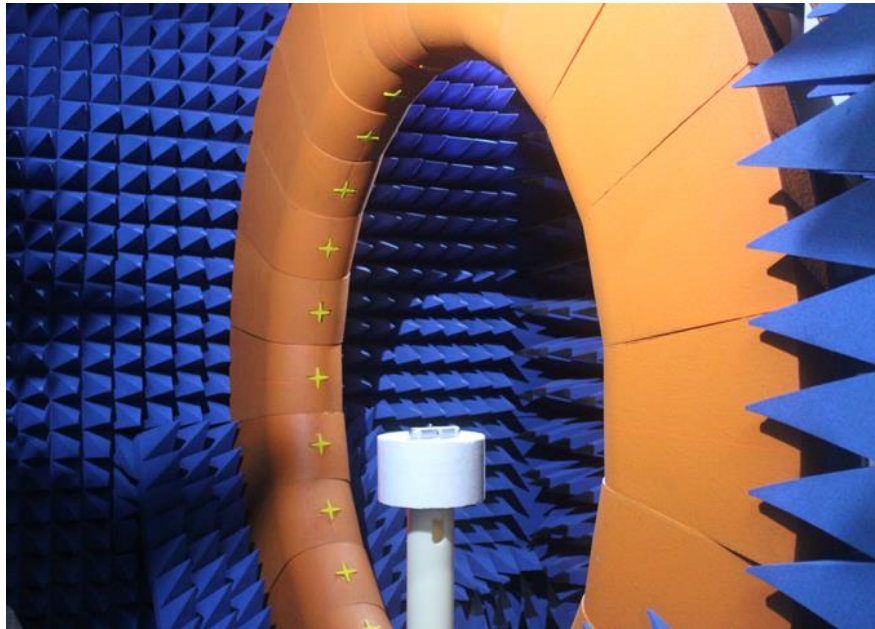
测试设备和测试环境

Test equipment and test environment





测试设备 Test equipment



探头微波暗室 /Probe microwave anechoic chamber

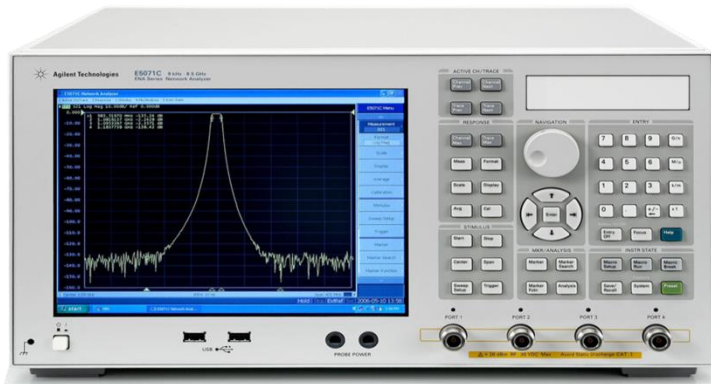
主要测试指标

- ◆ 无源指标/Passive indicators
 - ◆ 增益/Gain
 - ◆ 效率/Efficiency
 - ◆ 3D方向图/3D direction map
-
- 有源指标/Active indicators
 - TRP总辐射功率/TRP total radiated power
 - TIS总接收灵敏度/TIS total receiving sensitivity

➤ 频率: 0.4GHz至6GHz/Frequency: 0.4GHz to 6GHz



测试设备 Test equipment



Agilent E5071C

- Frequency: 300 kHz to 8.5GHz

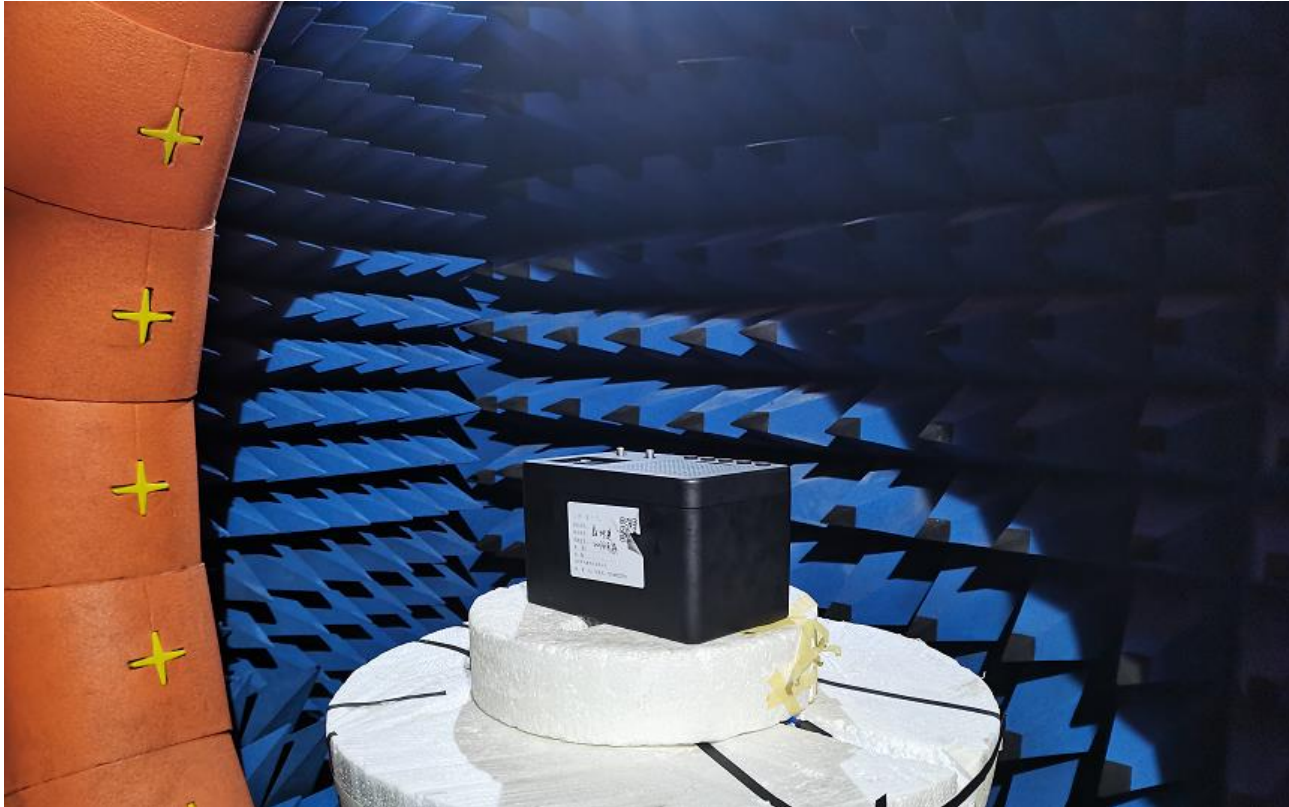


R&S CMW500

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



测试拍照
Test photos



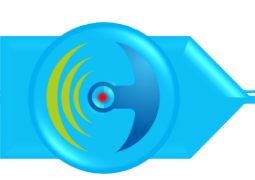


天线安装位置

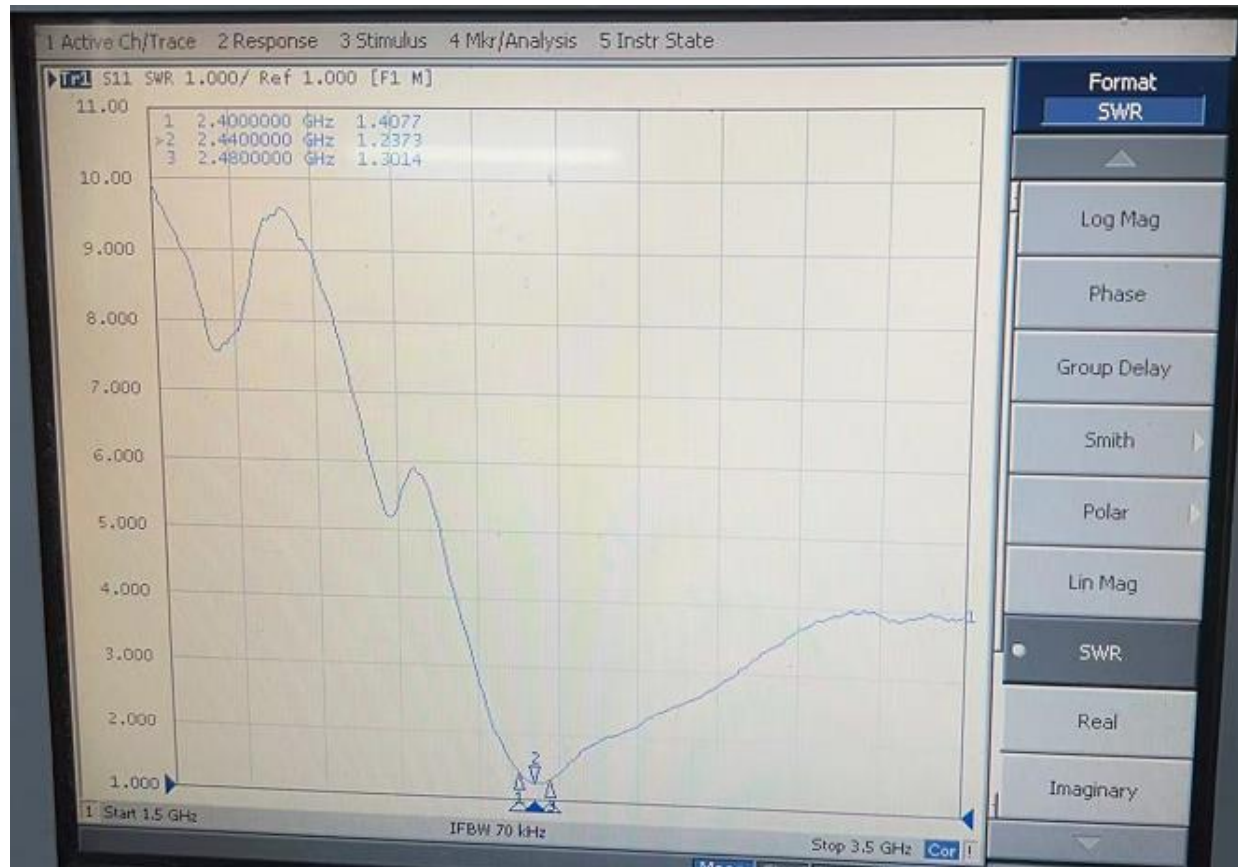
Passive antenna data



Antenna installation location and method

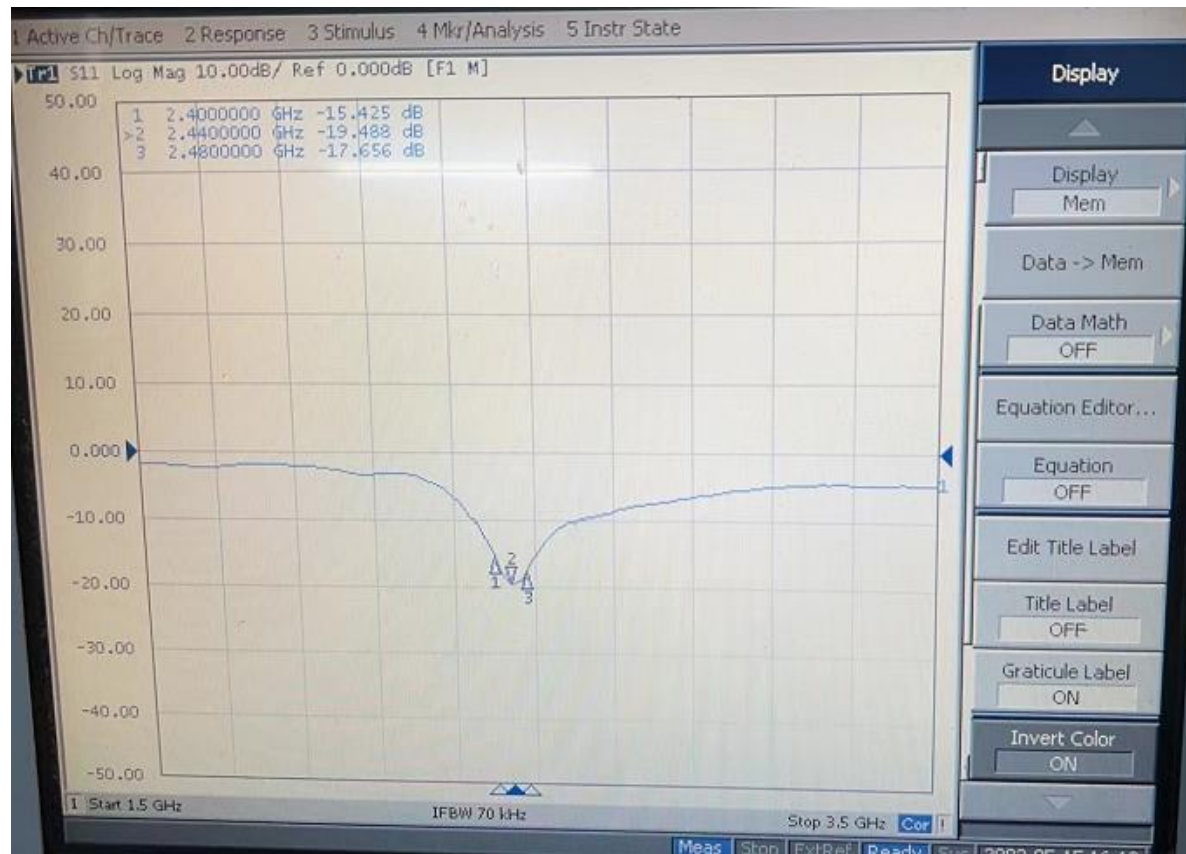


天线驻波比 Antenna SWR





天线回波损耗 Antenna Return loss

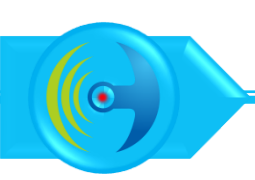




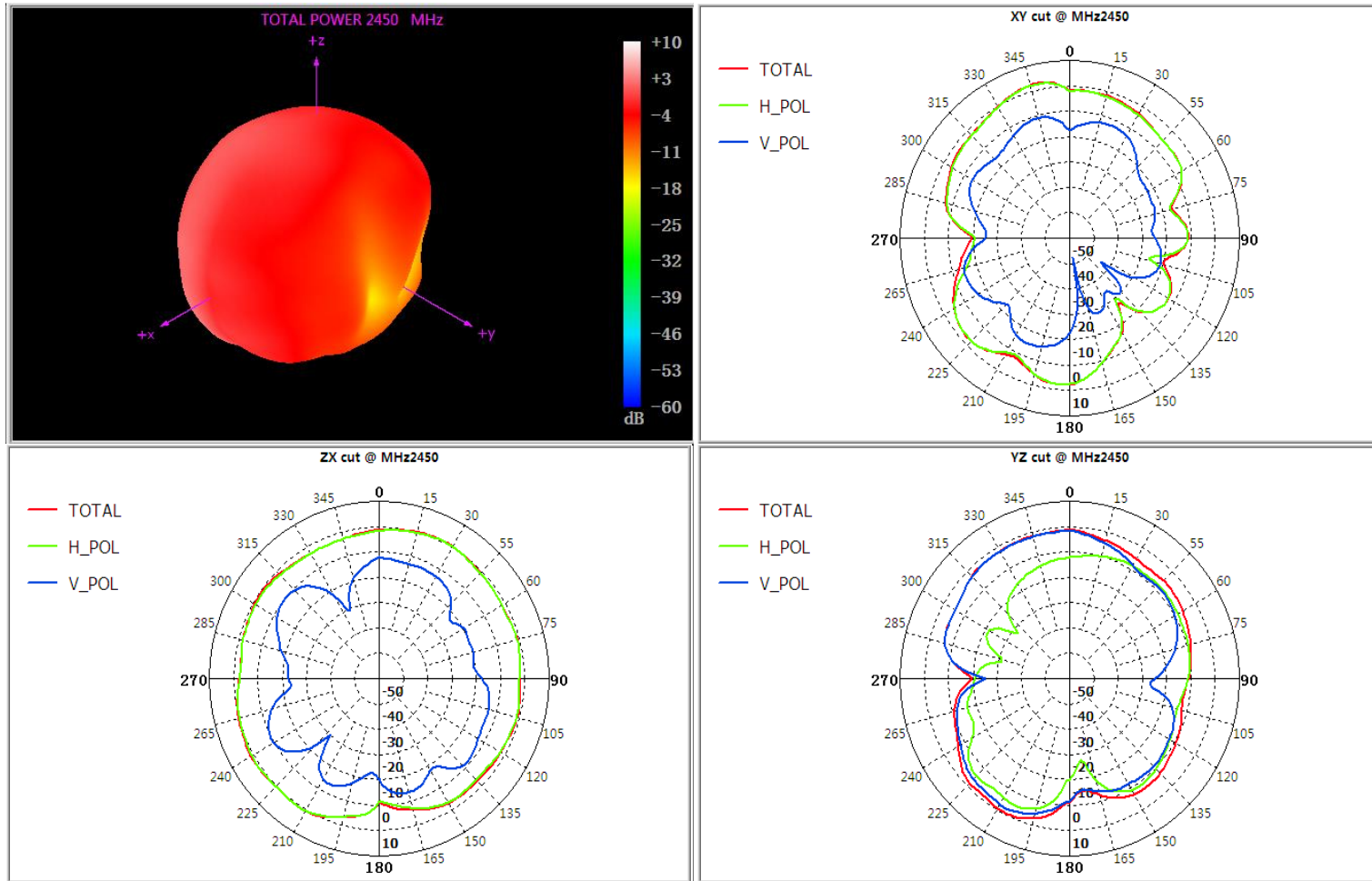
天线增益与效率

Antenna gain and efficiency

天线		
Freq(MHz)	Efficiency (%)	Gian(dBi)
2400	50.26	3.02
2410	51.33	3.08
2420	52.02	3.12
2430	53.06	3.23
2440	53.74	3.29
2450	52.72	3.01
2460	53.55	3.33
2470	55.17	3.44
2480	54.39	3.46
2490	55.89	3.24
2500	55.15	3.25



天线辐射方向图 Antenna Radiation Pattern





OTA 有源数据 (TIS, TRP)

OTA Active data

WIFI			
模式(mode)	信道 (channel)	TRP	TIS
802.11b 11Mbps	CH 1	15.34	-85.18
	CH 6	15.16	-85.27
	CH 11	15.08	-85.11

Thanks for your support!
感谢您的支持!

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