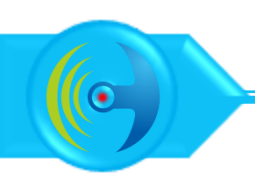




Professional antenna service provider



天线测试报告

Antenna test report

Project model XBL-000H6-B12

Antenna model _____

Test Engineer Xu Gaofu

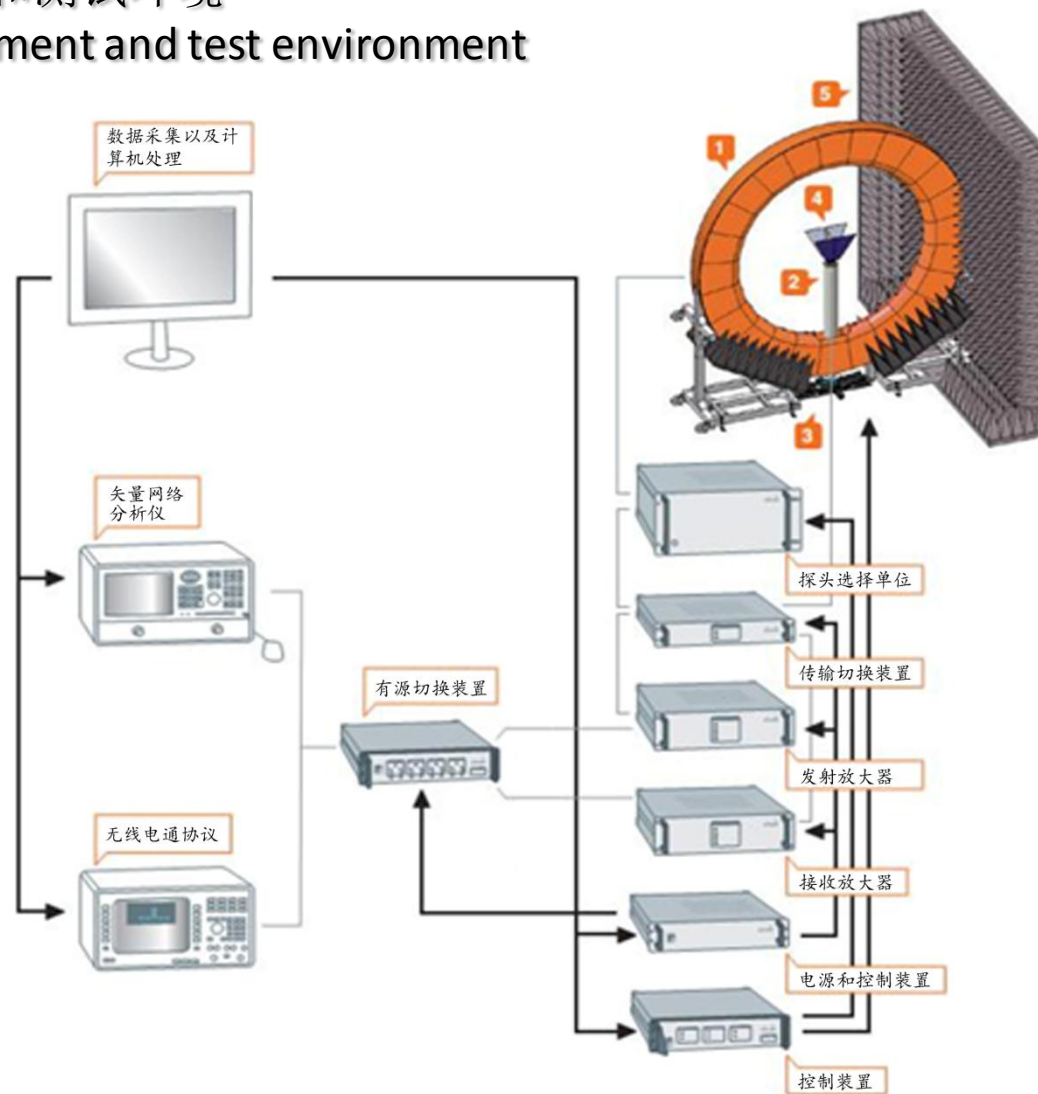
Audit Engineer Xia Xingxi

Date 2023-9-26



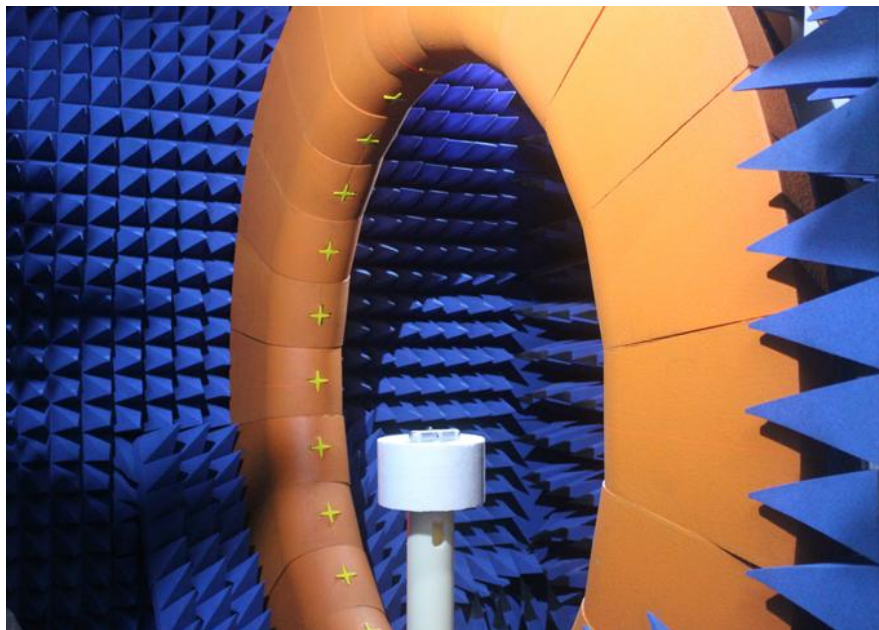
测试设备和测试环境

Test equipment and test environment





测试设备 Test equipment



探头微波暗室

➤ 频率：0.4GHz至6GHz

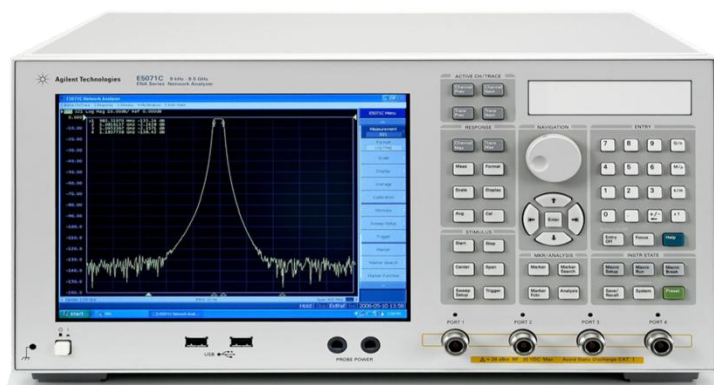
主要测试指标

- ◆ 无源指标
- ◆ 增益
- ◆ 效率
- ◆ 3D方向图

- 有源指标
- TRP总辐射功率
- TIS总接收灵敏度



测试设备 Test equipment



Agilent E5071C矢量网络分析仪

- 频率：300 kHz至8.5GHz



R&S CMW500 宽带无线通信测试仪

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

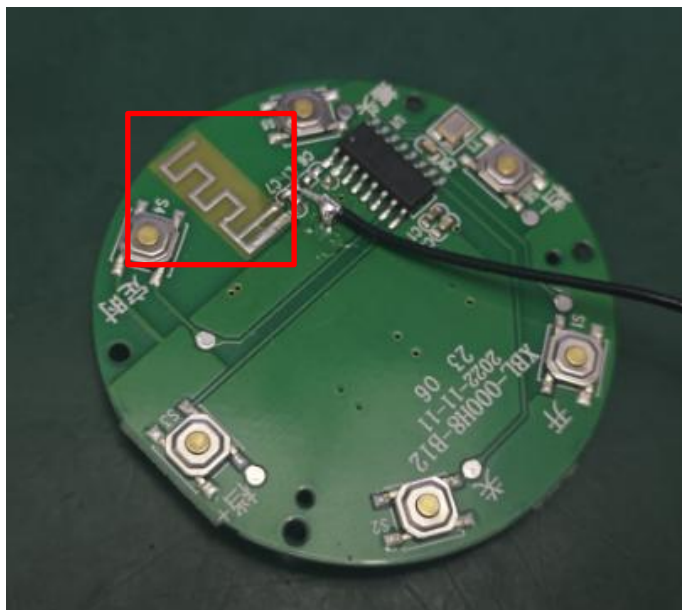


测试拍照 Test photos

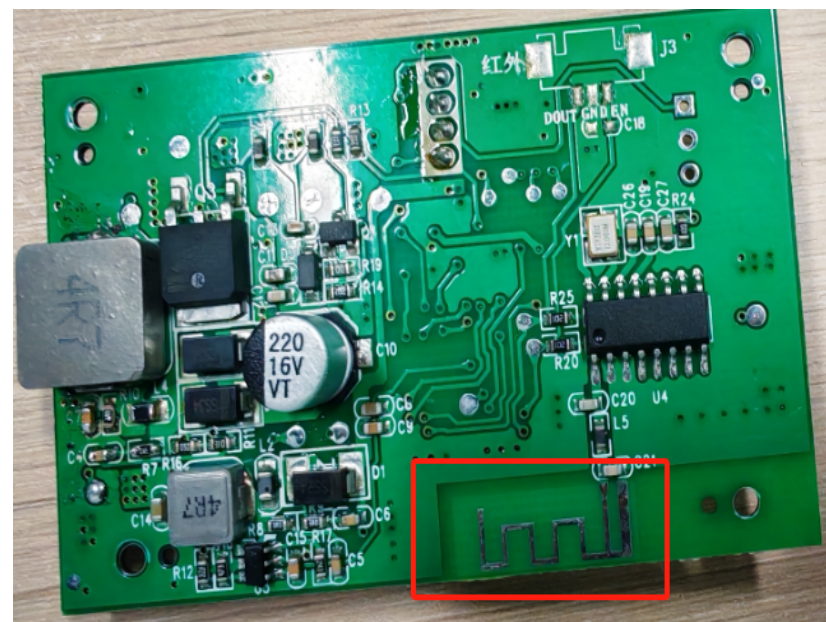


天线安装位置
Passive antenna data

TX天线



RX天线

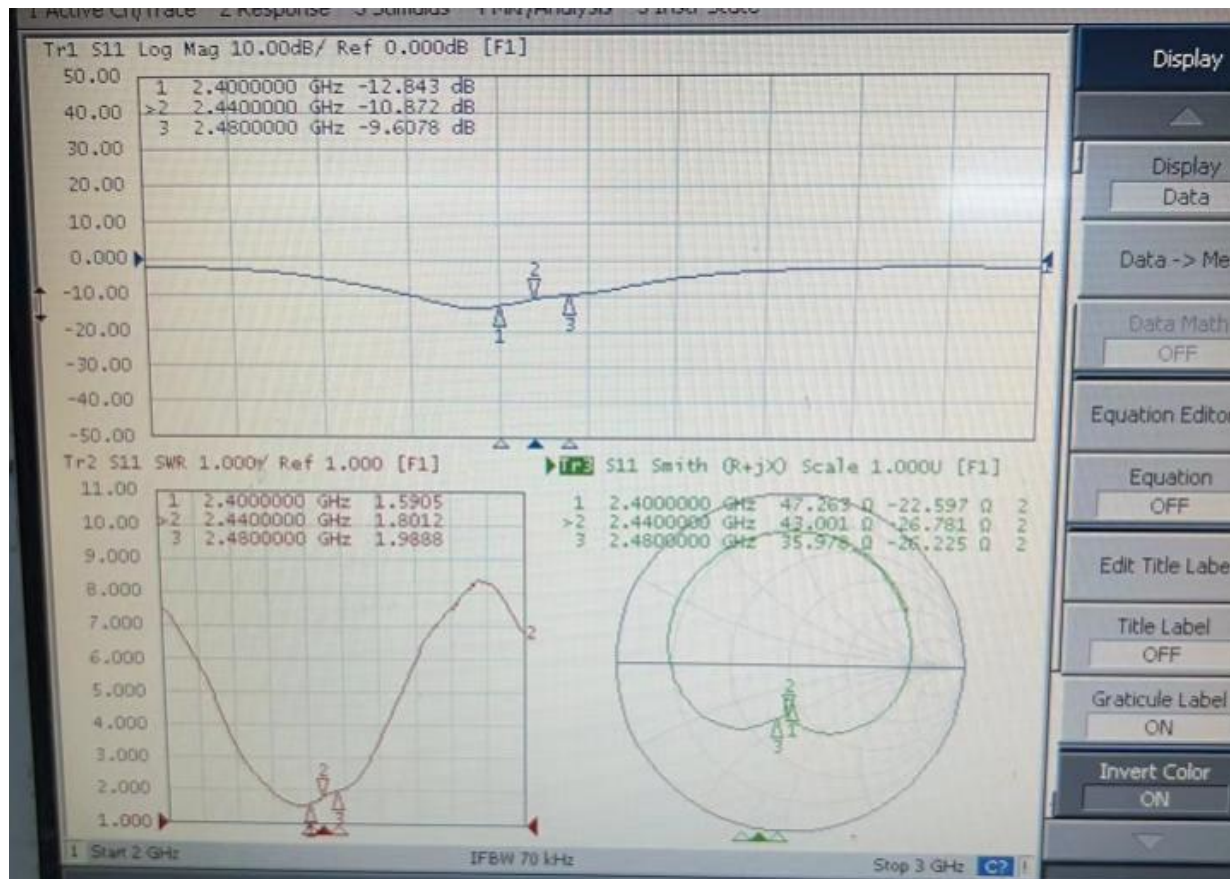




天线驻波比
Antenna SWR

TX天线

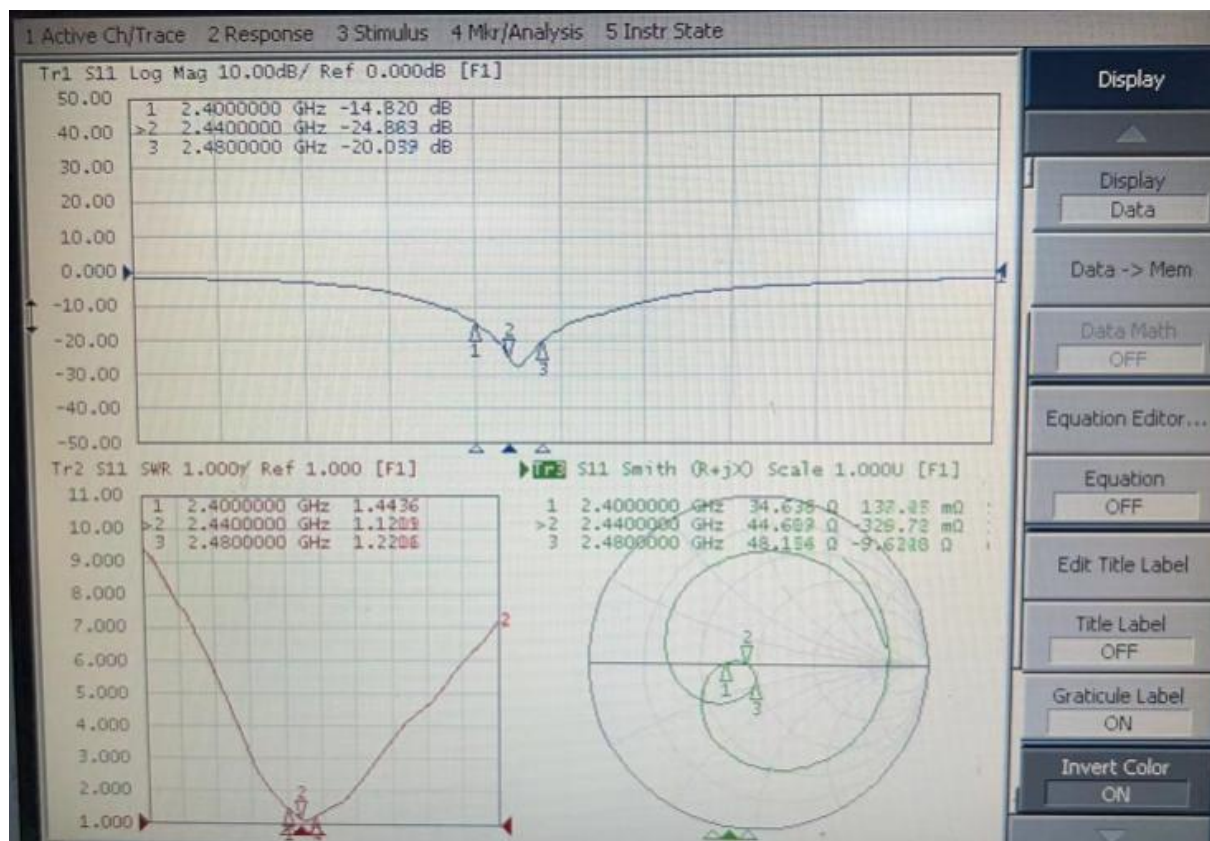
天线回波损耗
Antenna Return loss



天线驻波比
Antenna SWR

RX天线

天线回波损耗
Antenna Return loss





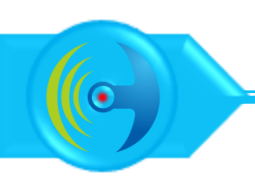
天线增益与效率 Antenna gain and efficiency

TX天线

天线		
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	33.58	-0.24
2410	30.85	-0.96
2420	29.97	-1.08
2430	28.57	-1.15
2440	26.92	-1.43
2450	25.82	-1.54
2460	25.11	-1.75
2470	24.62	-1.82
2480	23.33	-1.94
2490	23.73	-1.65
2500	24.49	-1.06

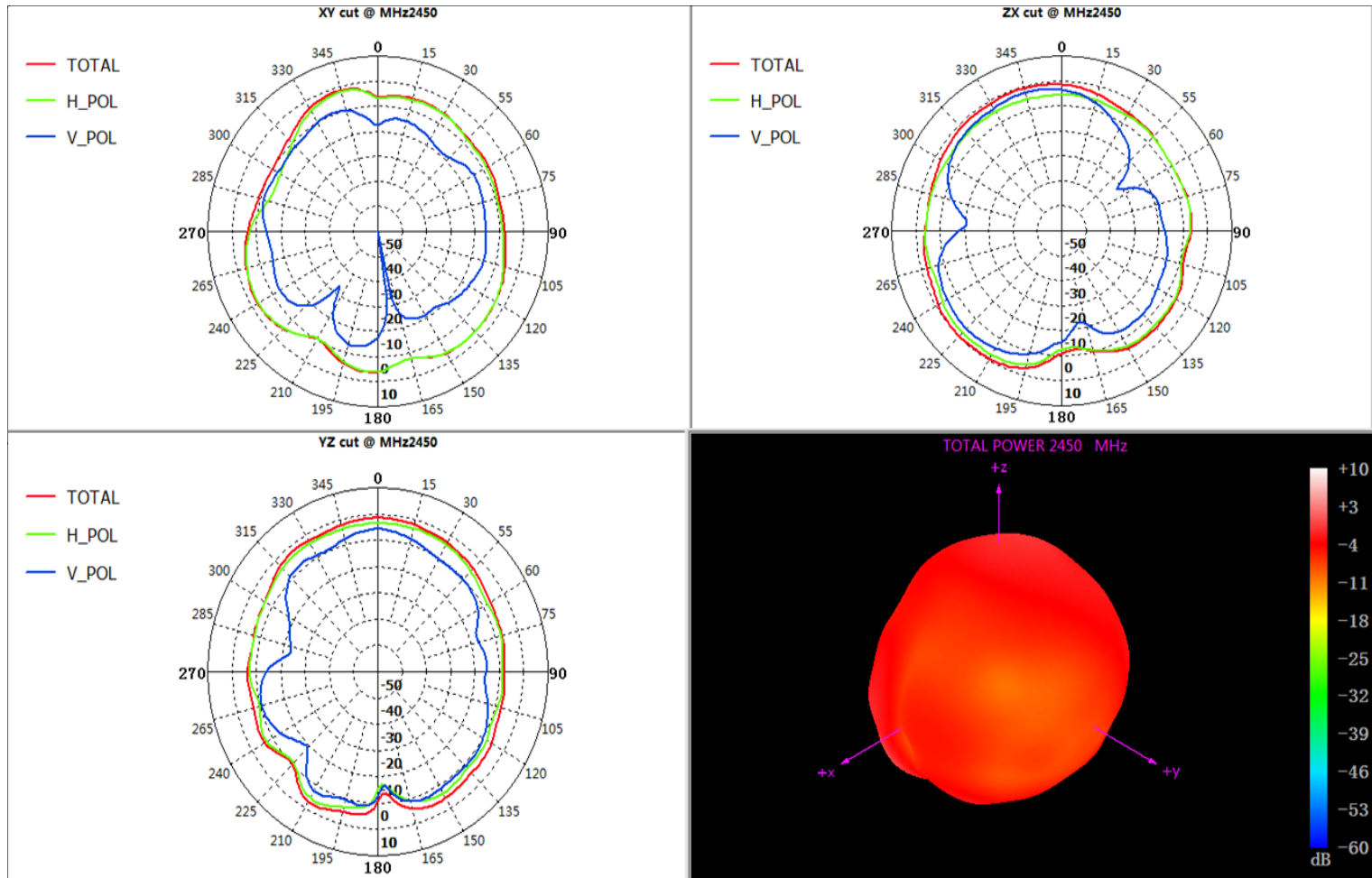
RX天线

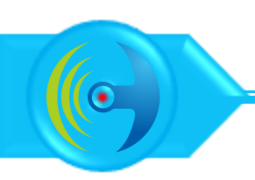
天线		
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	38.76	1.62
2410	37.23	1.29
2420	38.41	1.54
2430	38.28	1.5
2440	38.13	1.38
2450	37.79	1.23
2460	36.92	1.4
2470	36.44	1.38
2480	35.14	1.43
2490	35.29	1.61
2500	35.7	1.76



天线辐射方向图 Antenna Radiation Pattern

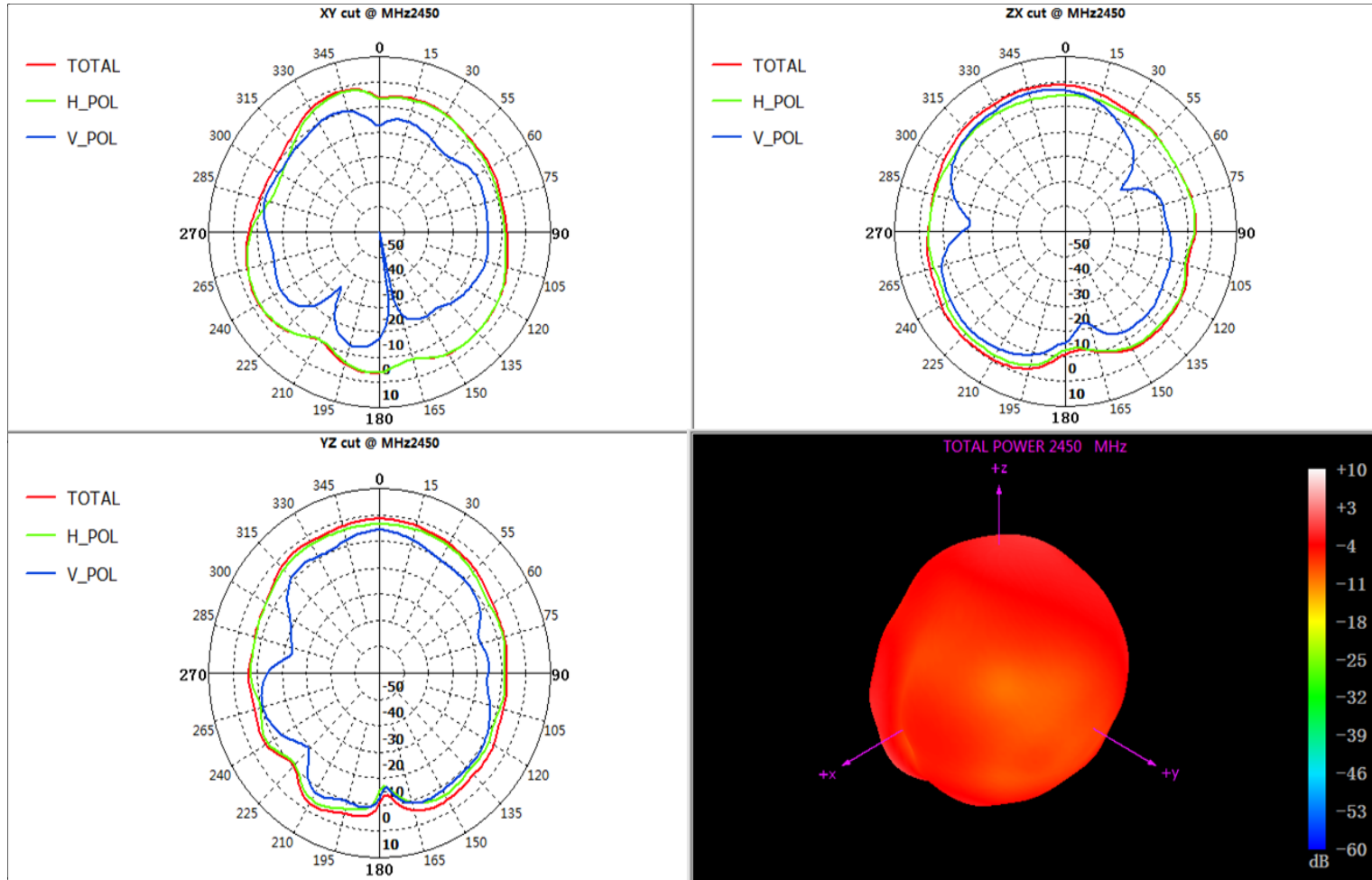
TX天线





天线辐射方向图 Antenna Radiation Pattern

RX天线



Thanks for your support !
感谢您的支持！