



SHENZHEN FEIMIN TECHNOLOGY CO., LTD.



Antenna test report

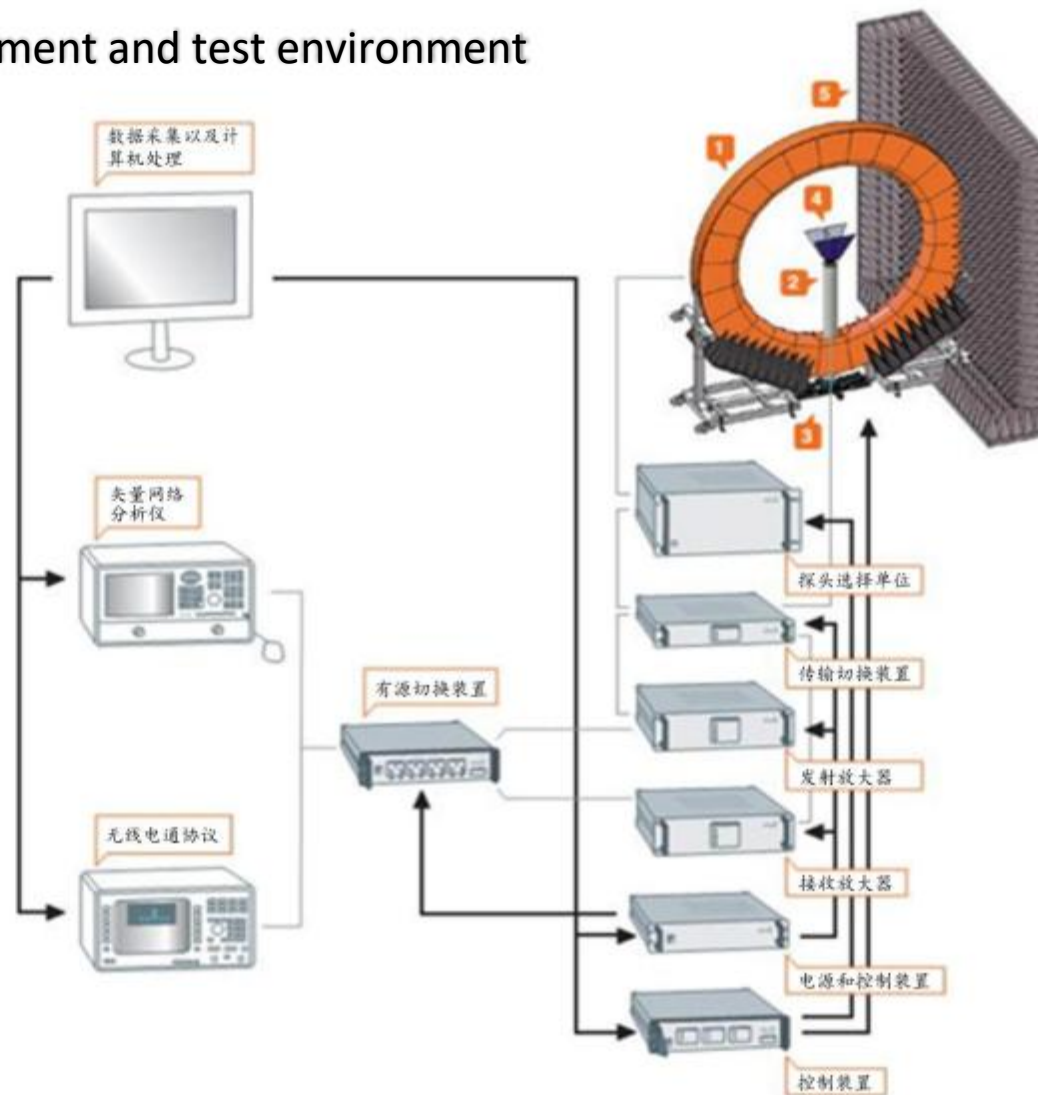
Project model _____ **XBL-000H8-B12**

Examine and verify _____ **Xia Xingxi**

Date _____ **2023-9-26**

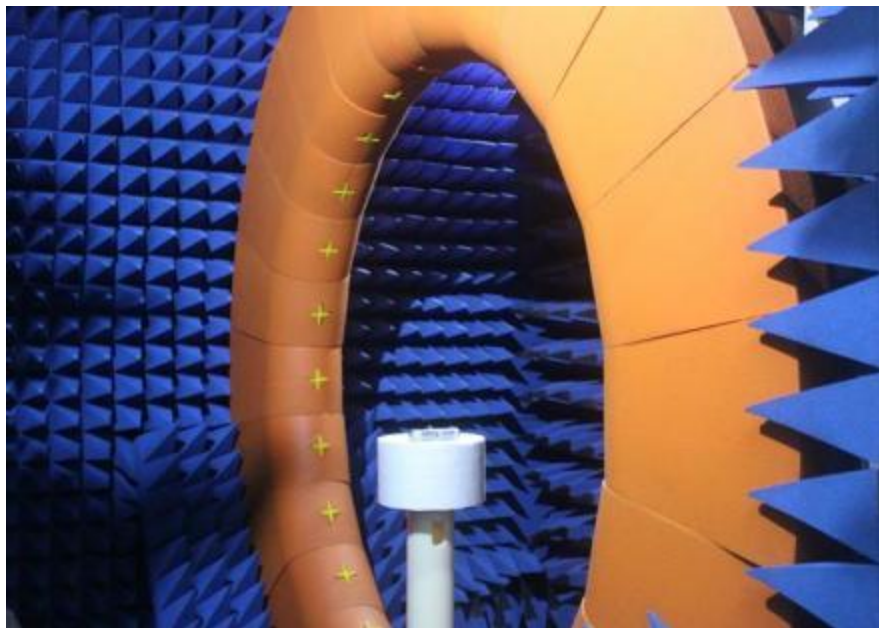


Test equipment and test environment





Test equipment



Probe microwave dark chamber

➤ frequency: 0.4GHz-6GHz

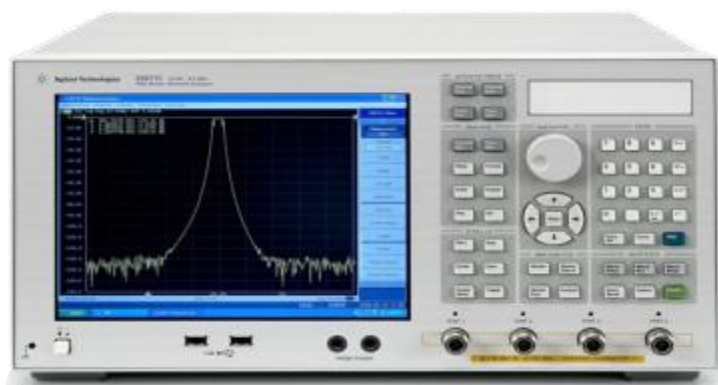
Main test indicators

- ◆ Passive indicator
- ◆ gain
- ◆ workpiece ratio
- ◆ 3D direction diagram

- 📄 Active indicators
- 📄 TRP total radiant power
- 📄 The TIS total reception sensitivity



Test equipment



Agilent E5071C

③ frequency: 300 kHz至8.5GHz



R&SCMW500

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



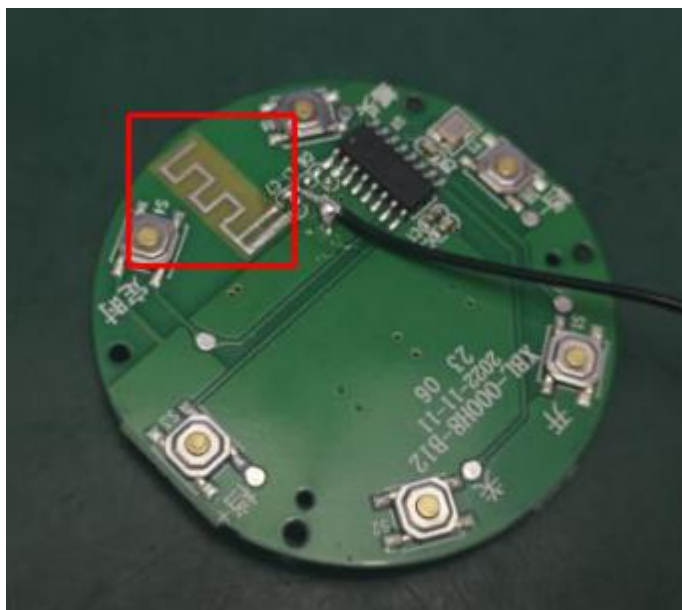
Test photos



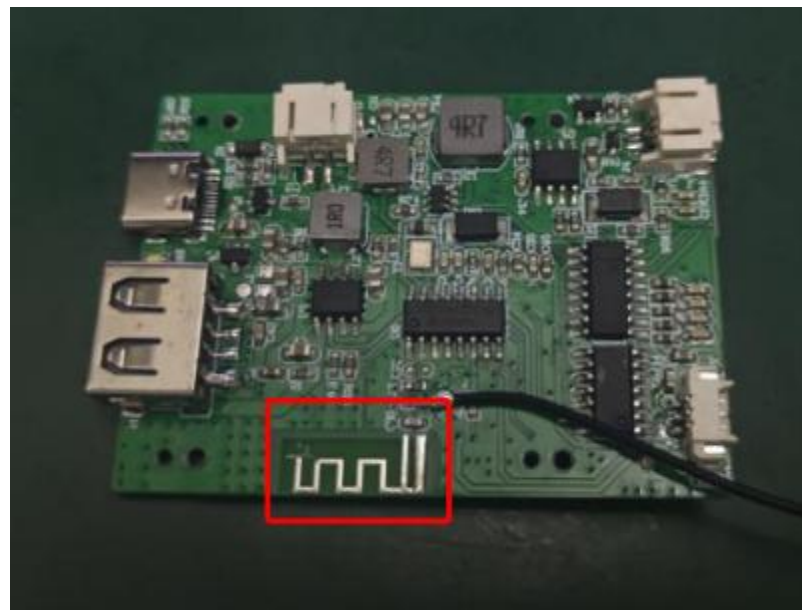


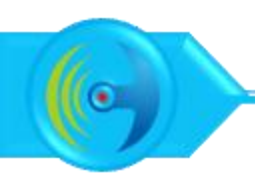
Passive antenna data

TX ANT



RX ANT

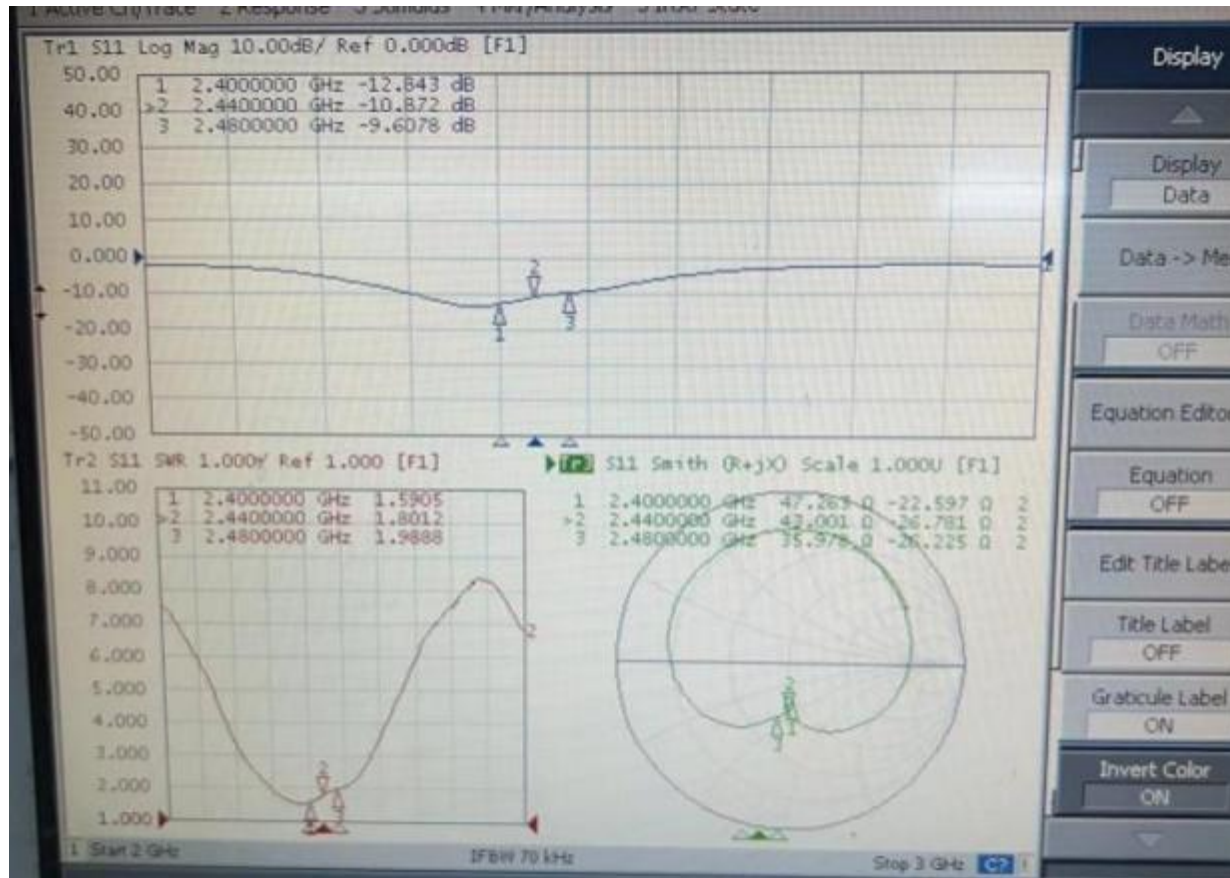


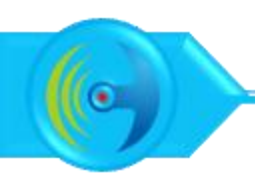


Antenna SWR

TX ANT

Antenna Return loss

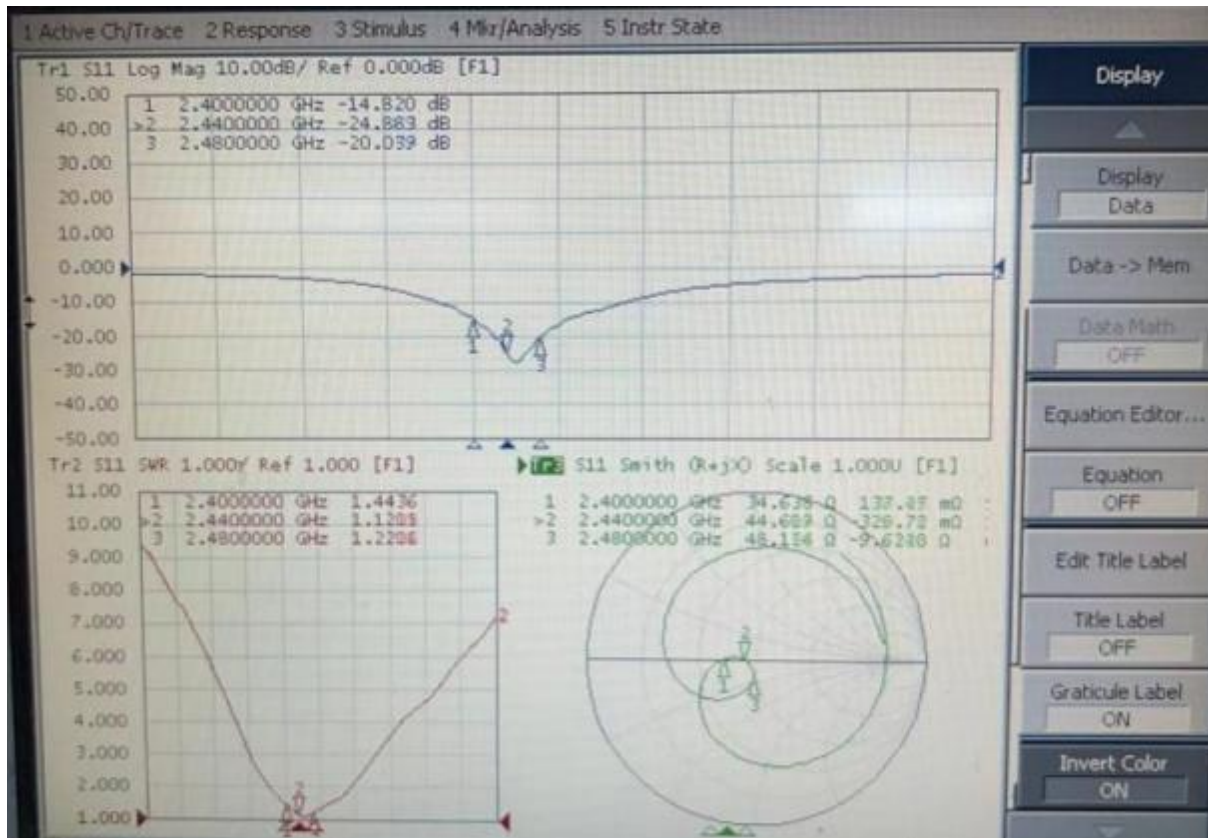




Antenna SWR

RX ANT

Antenna Return loss





Antenna gain and efficiency

TX ANT

ANT		
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

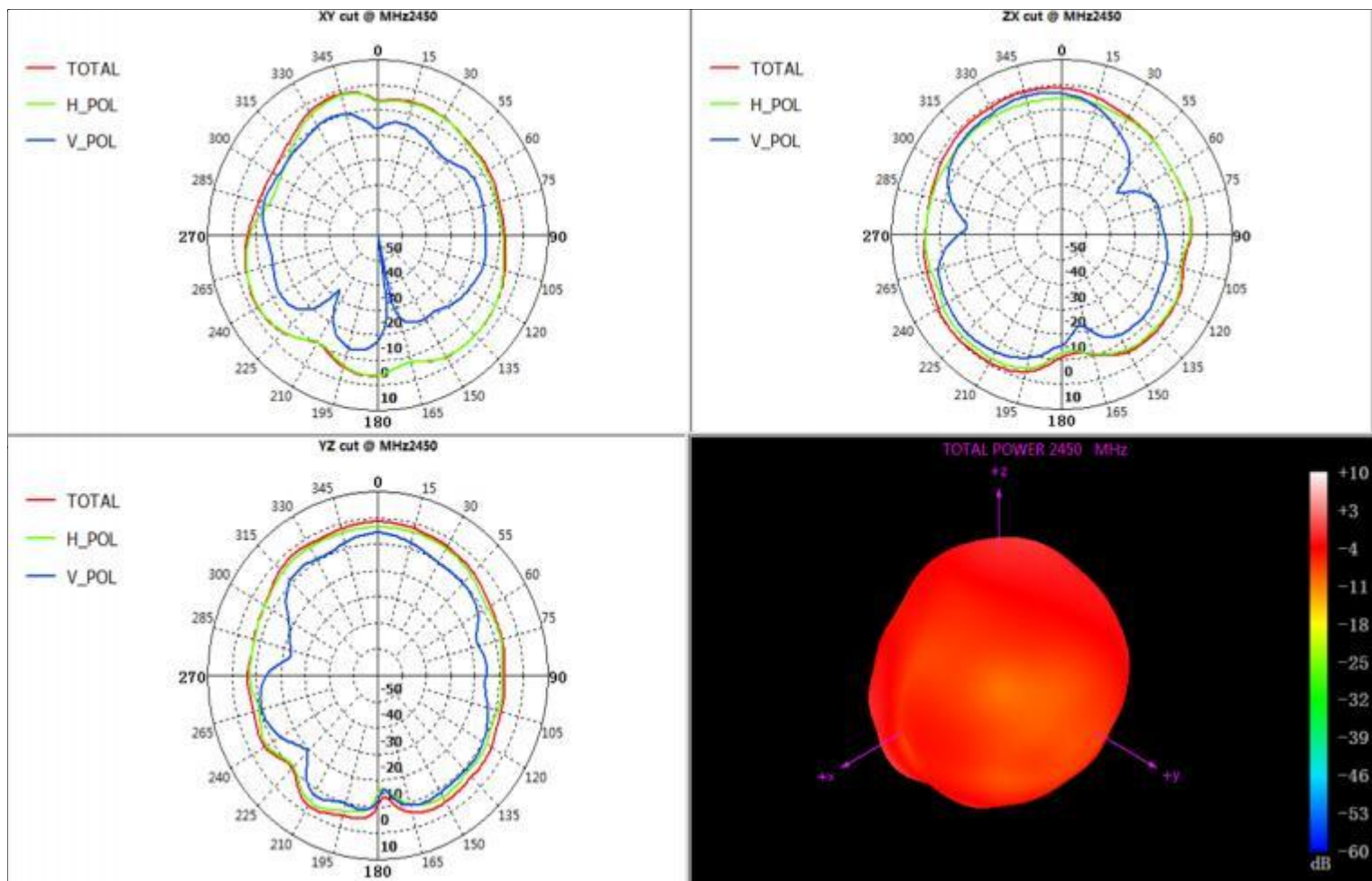
RX ANT

ANT		
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



TX ANT

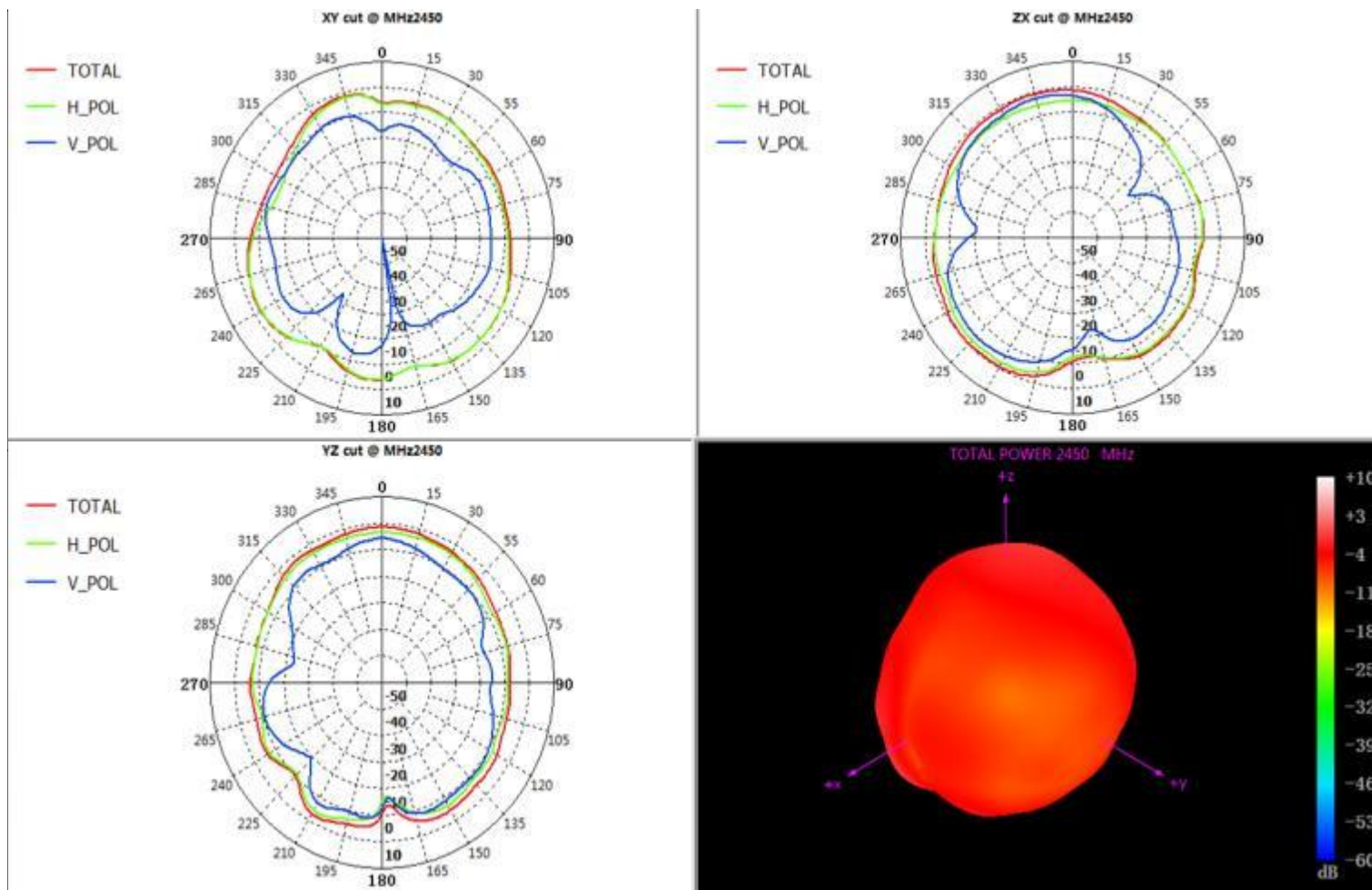
Antenna Radiation Pattern





RX ANT

Antenna Radiation Pattern



Thanks for your support !

TEL:(86)755-23035723. FAX:0755-23036702

E-mail:ant001@fmant.cn

ADD: 303 , building C,GUSHU Hengnan Road,Xixiang,Baoan district Shenzhen