

专业天线服务商

深圳市飞敏科技有限公司
SHENZHEN FEIMIN TECHNOLOGY CO.,LTD.



天线规格书

Antenna specificationg

项目型号

Project Model EN10

天线型号

Antenna model _____

测

试

Test

许高富Xu Gaofu

审

核

Review

潘雄威Pan Xiongwei

日

期

Date

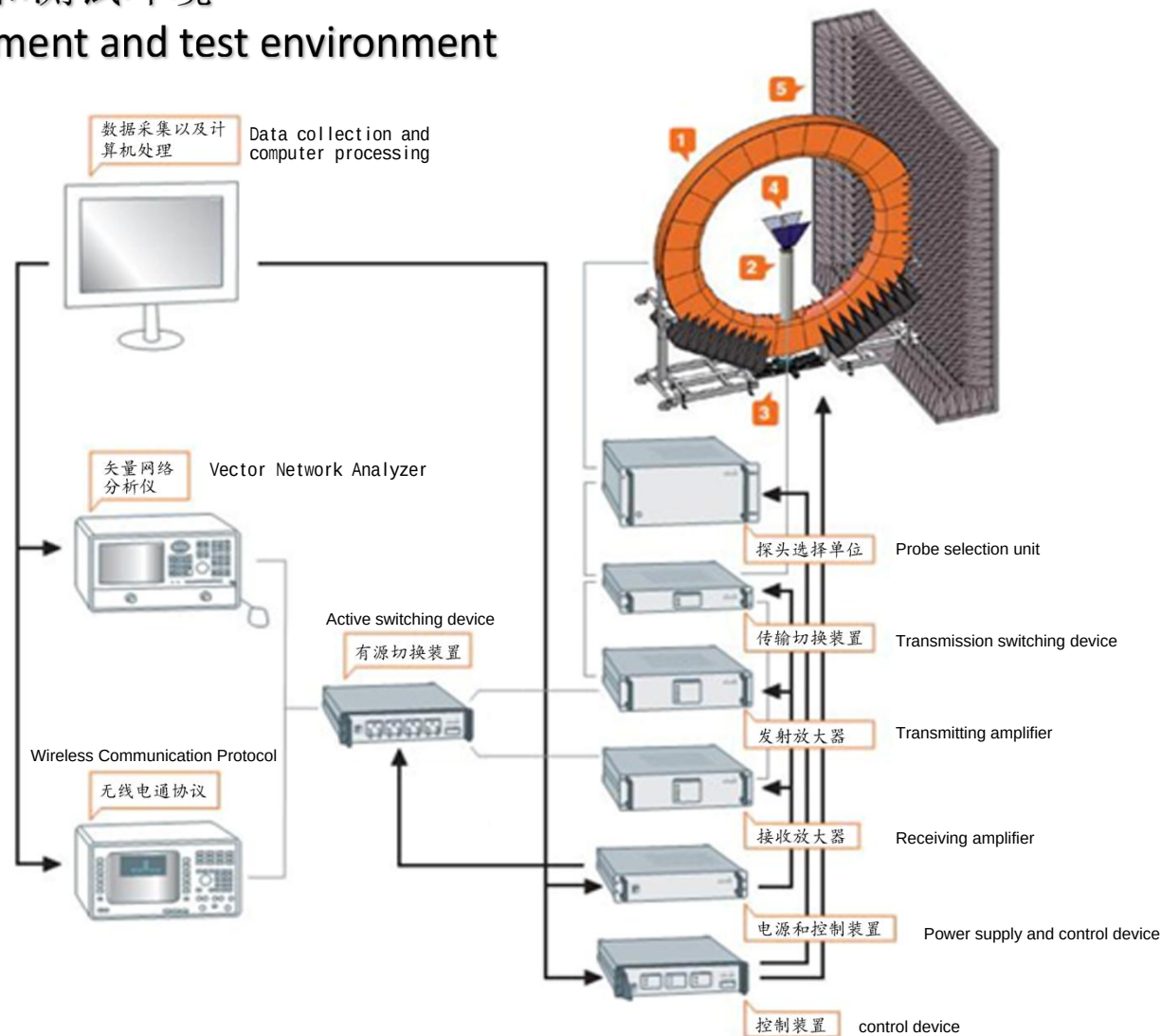
2026-4-29

Antenna type : FPC Antenna



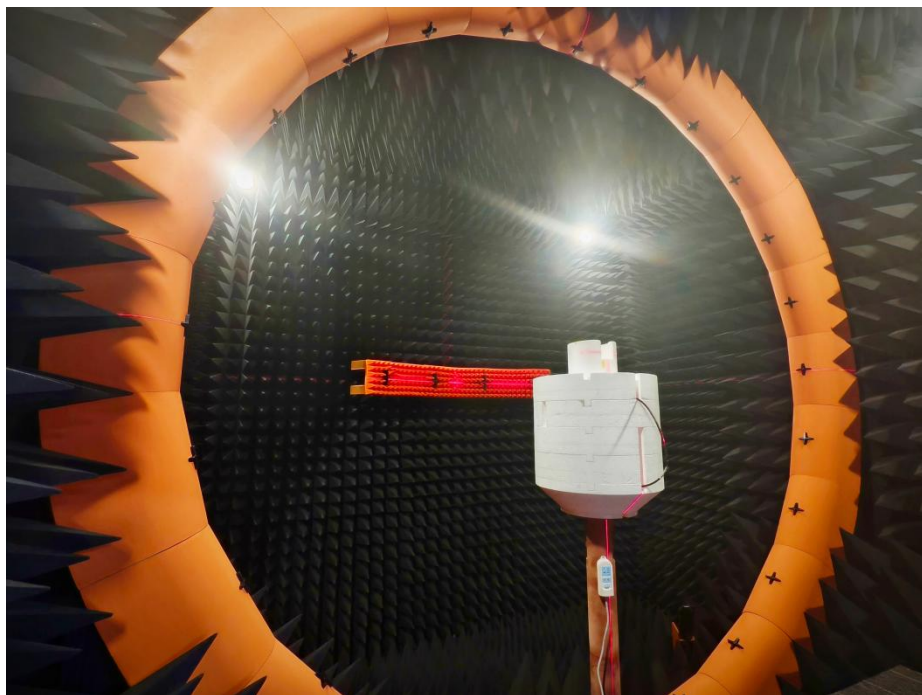
测试设备和测试环境

Test equipment and test environment





测试设备 Test equipment



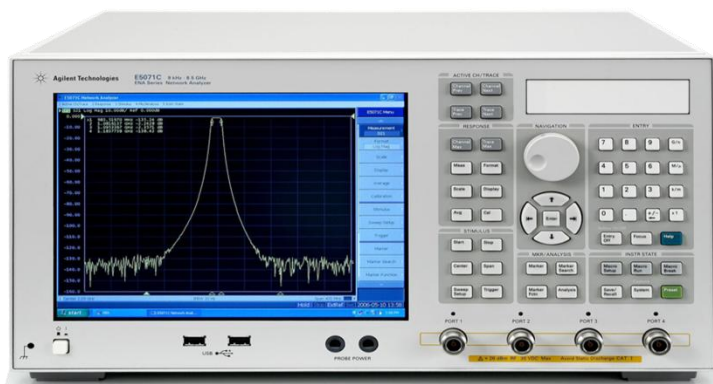
探头微波暗室
Probe microwave anechoic chamber
➤ 频率：0.4GHz至12GHz
Frequency Range : 0.4GHz-12GHz

主要测试指标 Main test indicators

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



测试设备 Test equipment



Agilent E5071C 矢量网络分析仪
Agilent E5071C Vector network analyzer

- 频率: 300 kHz至8.5GHz
Frequency Range : 300 kHz - 8.5GHz



R&S CMW500 宽带无线通信测试仪
R&S CMW500 Broadband wireless communication tester

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



天线安装位置

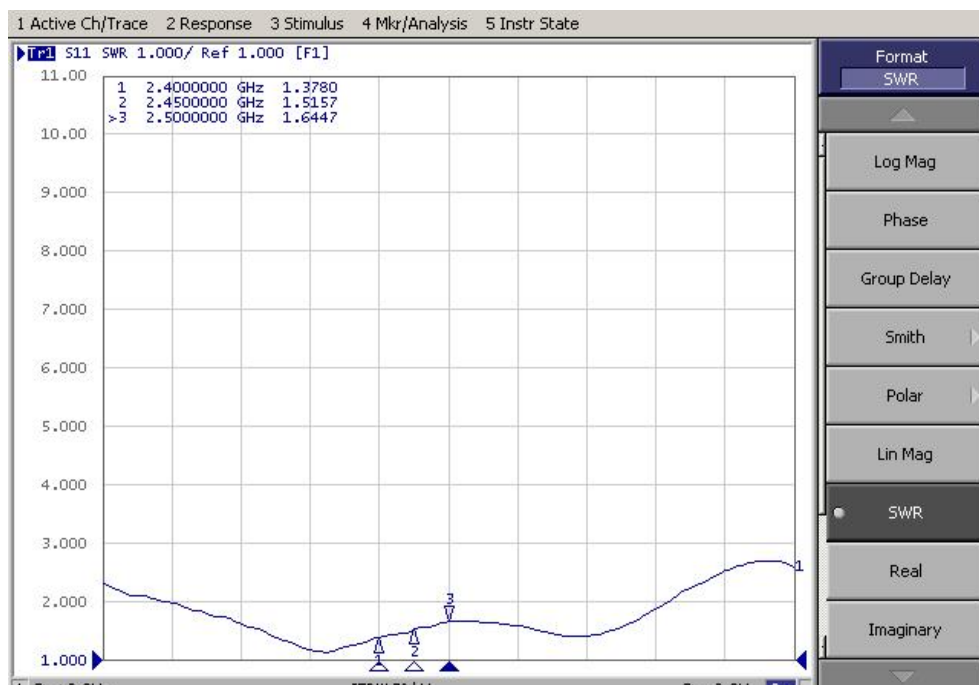
Passive antenna data

Antenna assembly position and method

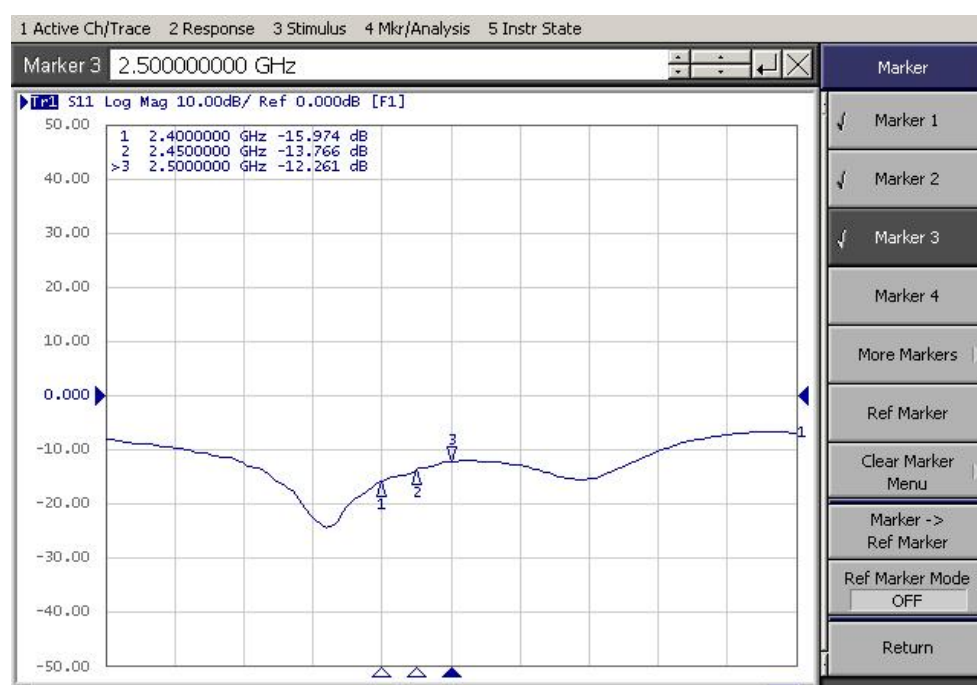




天线驻波比
Antenna SWR



天线回波损耗
Antenna Return loss





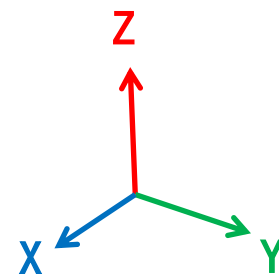
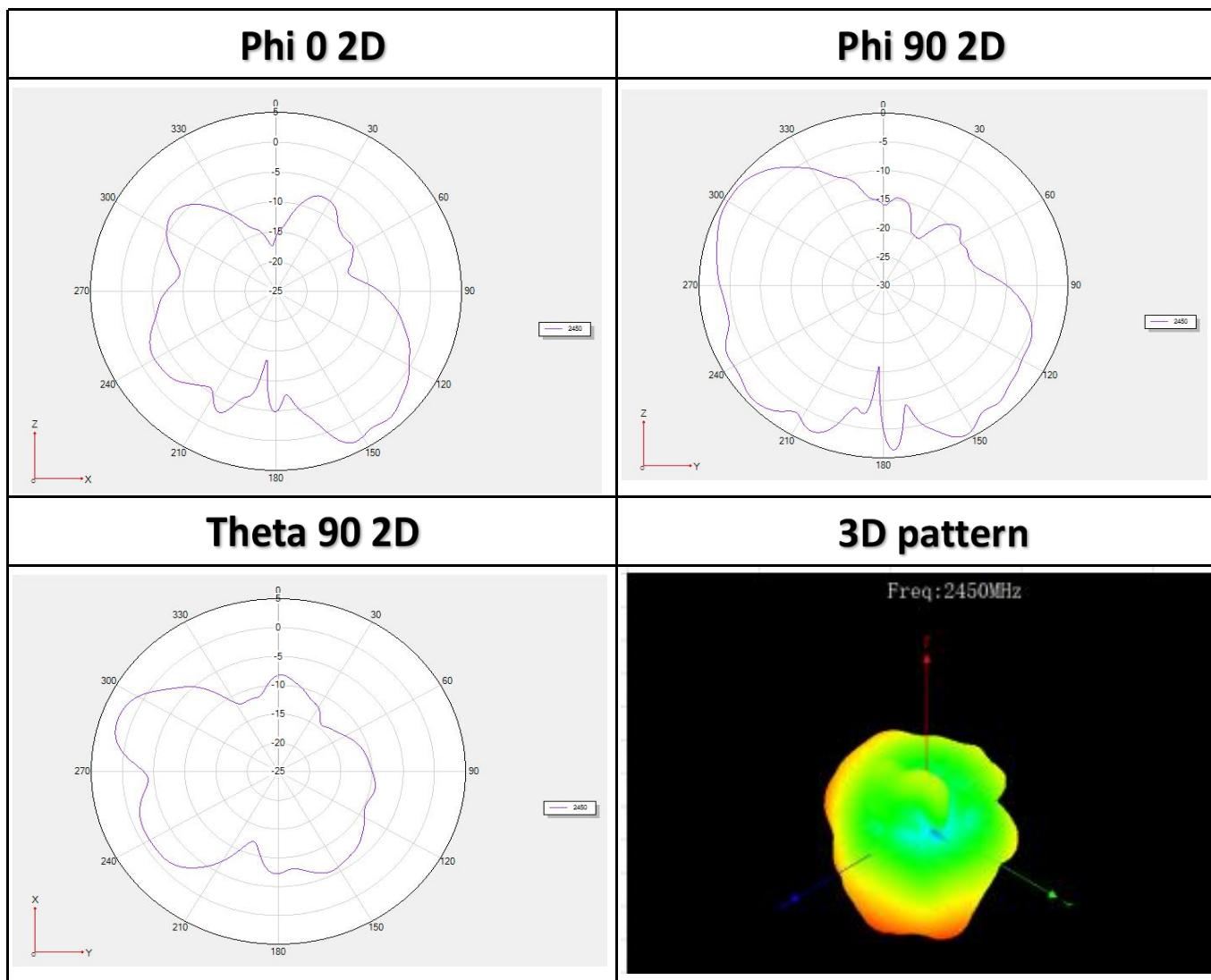
天线增益与效率
Antenna gain and efficiency

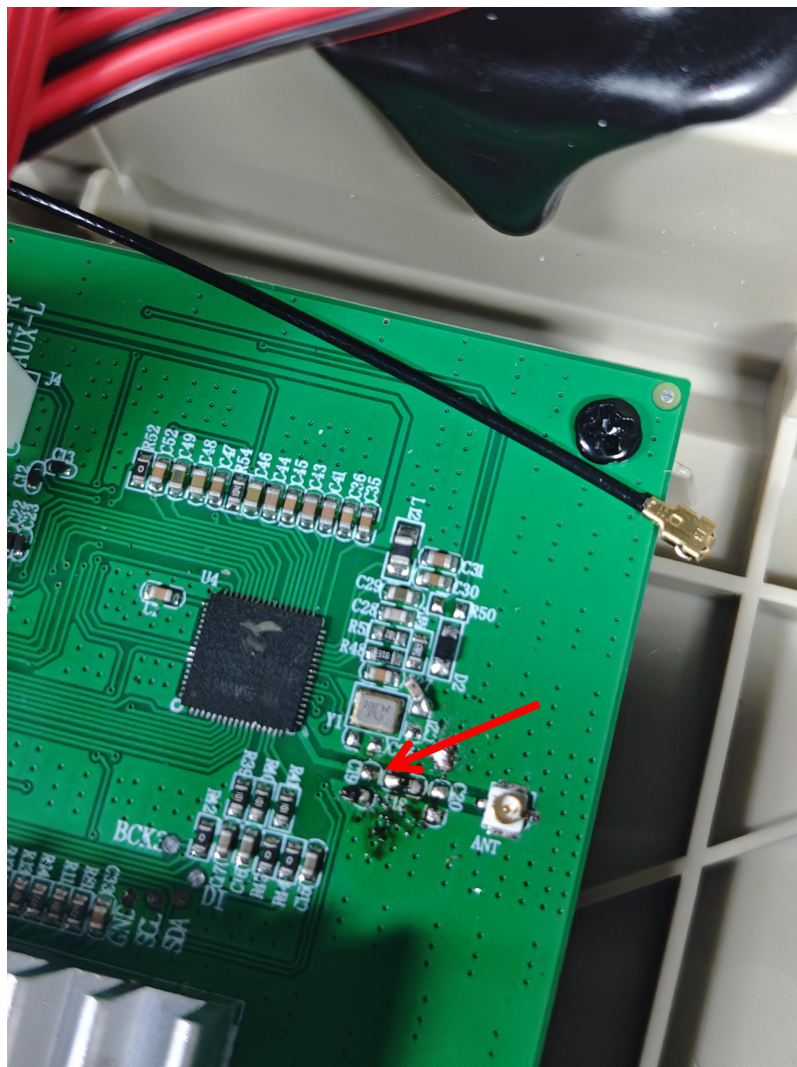
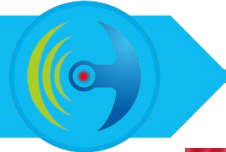
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	42.21	1.95
2410	42.59	2.03
2420	43.64	2.10
2430	44.55	2.22
2440	45.84	2.25
2450	46.47	2.33
2460	45.63	2.27
2470	45.31	2.18
2480	43.87	2.08
2490	41.50	2.02
2500	41.18	1.99



天线辐射方向图

Antenna Radiation Pattern





此处静电管可能有损坏，焊上静电管测试发射功率，仅有-1DB，拆掉之后，测发射功率正常，在测试时，没焊接静电管比焊接的距离远一些。

There may be damage to the electrostatic tube here. After welding the electrostatic tube and testing the emission power, it was only -1DB. After removing it, the emission power was tested and found to be normal. However, during testing, the distance of the electrostatic tube without welding was farther than that of welding.

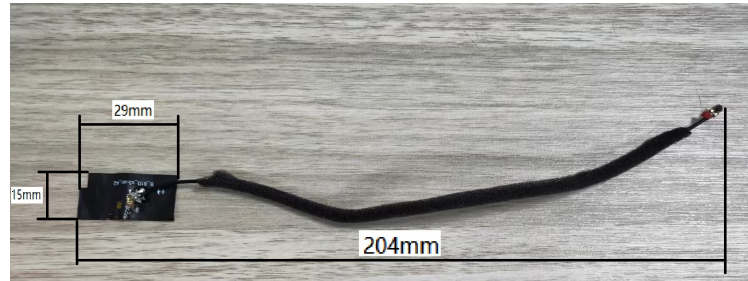


测试距离 Measuring distance



Test location: By the river downstairs from Keyunda Building
Test distance: 60M

Antenna size :



Thanks for your support!
感谢您的支持!

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