

Testing Report

Sample name: WIFI antenna

Model: 2.4/5.8GHZ-SMA straight head 3m medium suction cup antenna

Standard Test : GB/T 9410-2008

Release date: July 1, 2024

Version: A0

编写 Prepared By	审核 Reviewed By	批准 Approved By
Junbao Yuan	Qiannan Li	Yujia Liu
变更记录		
Version	date	Reason for change
A0	2024/07/01	

company : Shenzhen Zhengdaxinwei Communication Equipment Co.,Ltd
Address: No. 486, Zhangbei Road, Longcheng Street, Longgang District, Shenzhen
Telephone: 0755-2883-9286
Fax: 0755-8990-9291



1. 测试目的Testing purposes:

根据客户项目需求，对WIFI天线的电性能技术要求及试验标准，提供符合客户要求的试验报告。

According to customer project requirements, we provide test reports that meet customer requirements for the electrical performance technical requirements and test standards of WIFI antennas.

2. 样品信息Sample Information:

Product name: built-in antenna

Product model: 2.4/5.8GHZ-SMA straight head 3m medium suction cup antenna

Material code: 55027-51A1X4099

3. 参考文献References

Main reference documents for testing:

Serial number	Document Name	Document Title
1	GB/T 9410-2008	General technical specifications for mobile communication antennas

4. 测试WIFI天线的OTA无源参数Test the OTA passive parameters of the WIFI antenna::

4.1 Test system connection

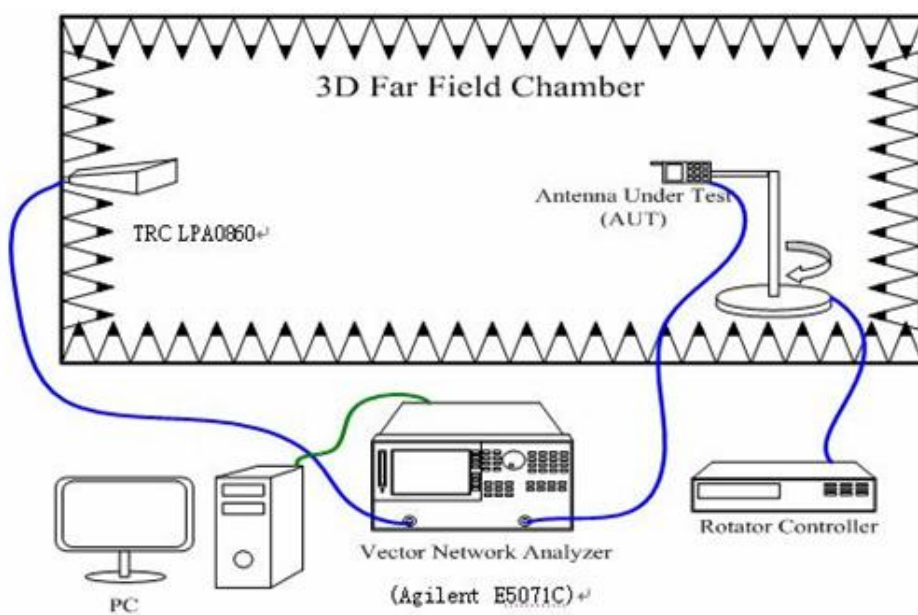


图. 1. 微波暗室内部仪器设置 r.

4.2 Test equipment

Network analyzer E5071C

WIFI antenna

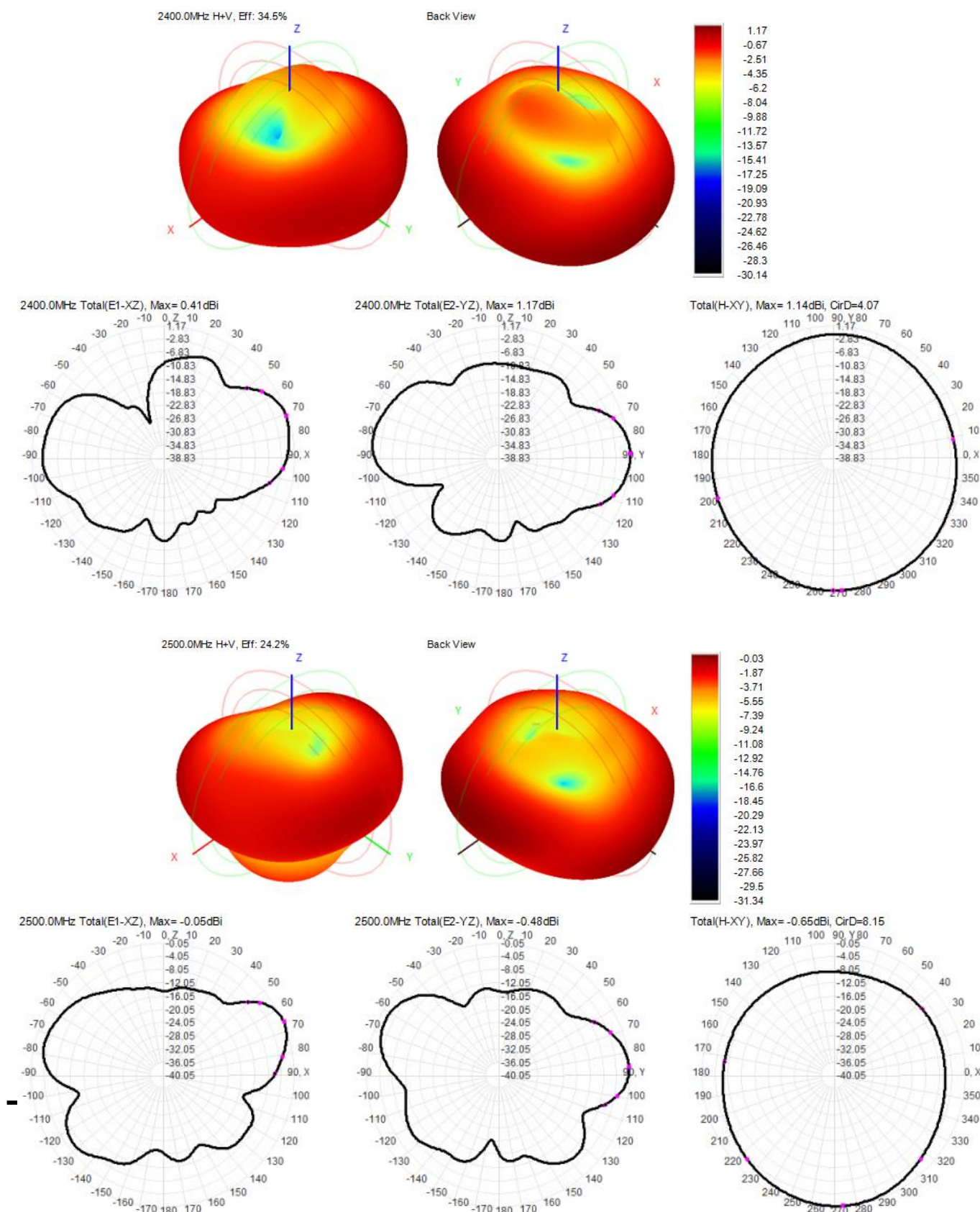
Computer

Microwave darkroom



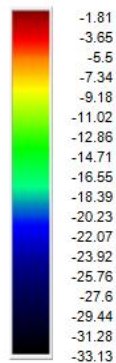
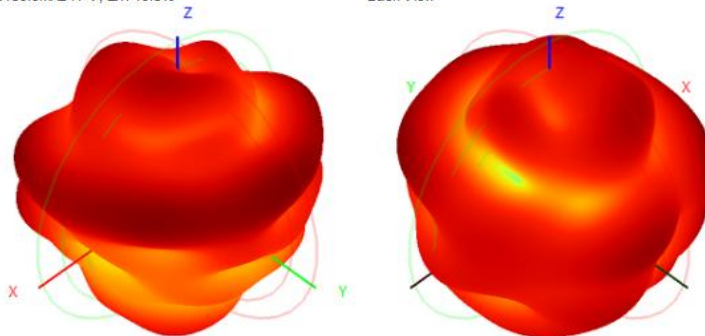
[illegible]

4.4 OTA Direction diagram



5150.0MHz H+V, Eff: 19.3%

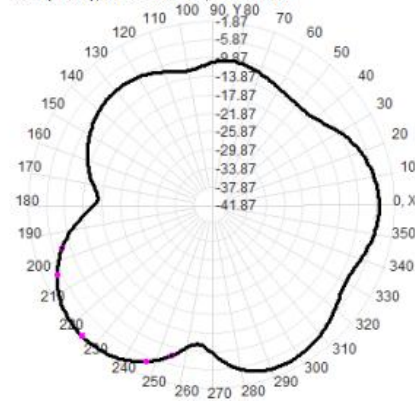
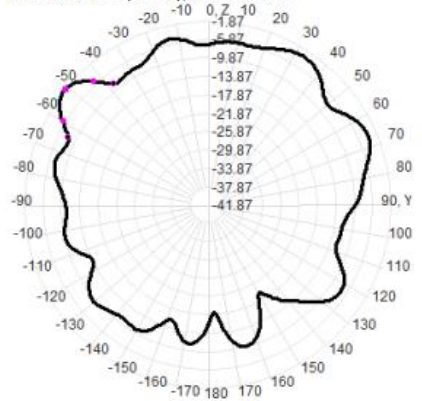
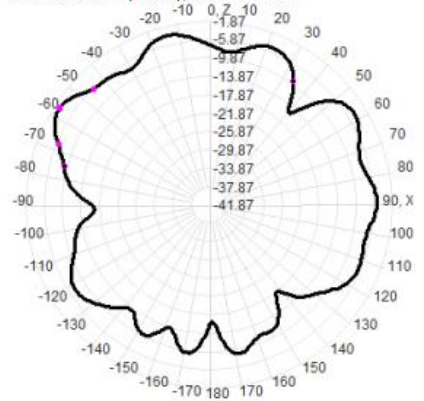
Back View



5150.0MHz Total(E1-XZ), Max=-3.00dBi

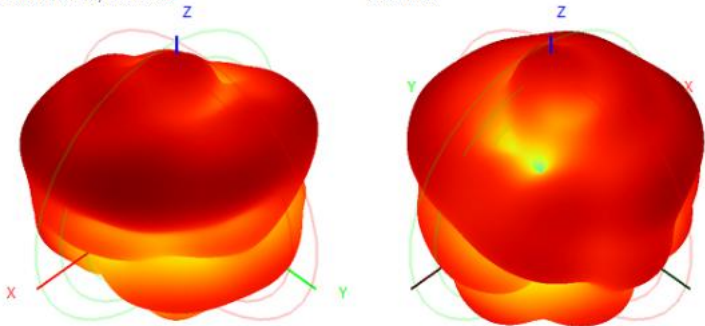
5150.0MHz Total(E2-YZ), Max=-1.87dBi

Total(H-XY), Max=-1.95dBi, CirD=15.08



5850.0MHz H+V, Eff: 12.3%

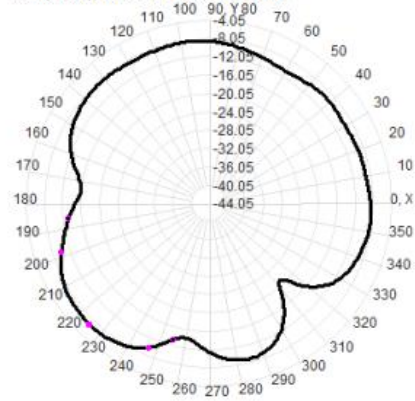
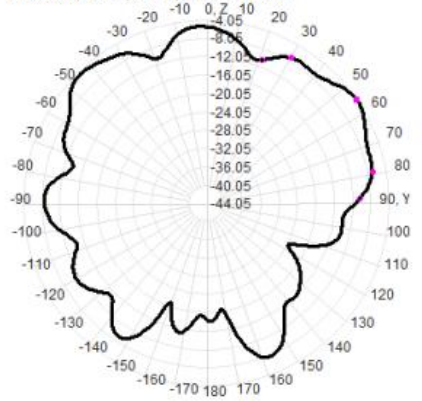
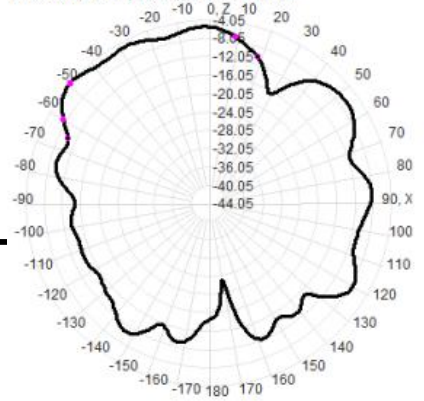
Back View



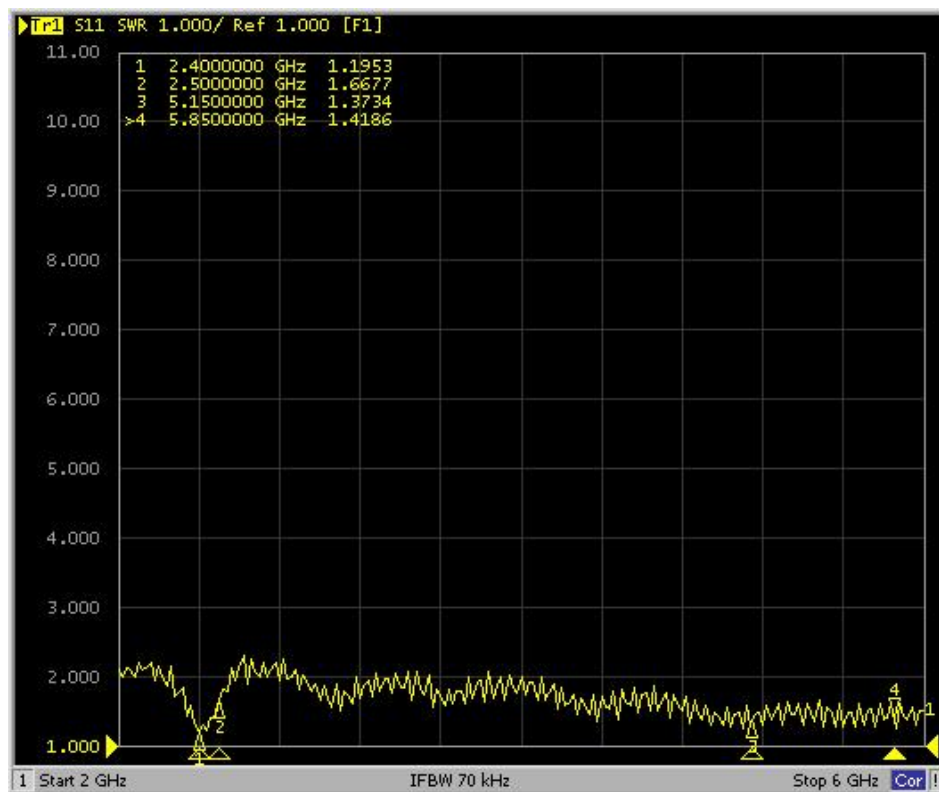
5850.0MHz Total(E1-XZ), Max=-4.05dBi

5850.0MHz Total(E2-YZ), Max=-4.28dBi

Total(H-XY), Max=-7.10dBi, CirD=14.32



4.5 VSWR test chart



Frequency (MHz)	VSWR
2400	1.19
2500	1.66
5150	1.37
5850	1.41