



深圳市国质信网络通讯有限公司  
ShenZhen NQI network communication ltd

# Antenna Test Report

For

Project D05

Version:

|                     |           |                   |                  |
|---------------------|-----------|-------------------|------------------|
| <b>Customer</b>     |           | <b>Project</b>    | <b>D05</b>       |
| <b>Band</b>         | <b>BT</b> | <b>Color</b>      |                  |
| <b>Issued by</b>    | <b>Sk</b> | <b>Checked by</b> |                  |
| <b>Confirmed by</b> |           | <b>Date</b>       | <b>2022.11.1</b> |

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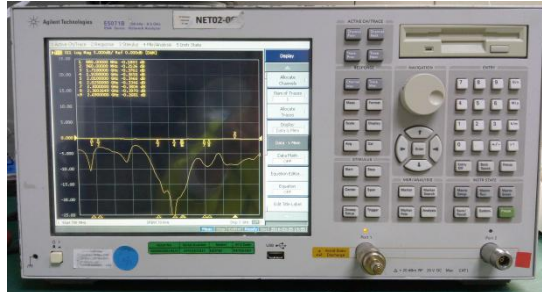


一. Test Instrumentation and item(测试设备及项目)

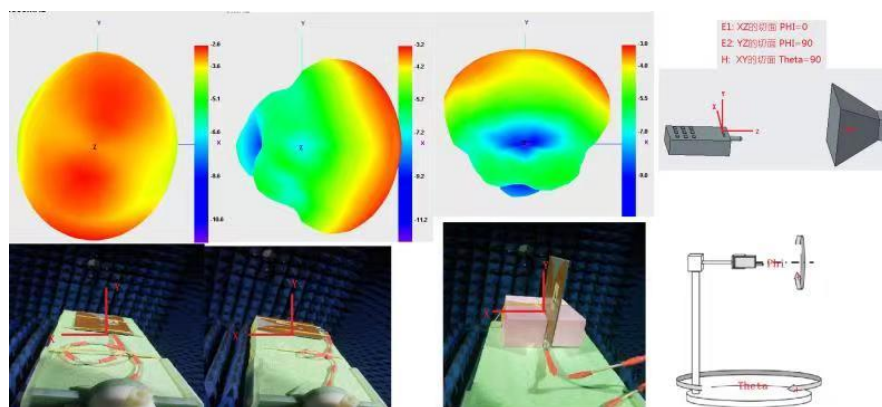
| 类别 (Class)                 | 测试项目 (Test item)                                                  | 设备 (Equipment)                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S parameter             | 1. 回波损耗(RL)<br>2. 驻波比 (VSWR)<br>3.斯密斯原图(Smith chart)              | 网分 (VNA) : Agilent E5071B<br><br>R&S ZVB8<br><br>Protek A333                                                                                                                                                                                           |
| 2. 耦合测试 (Coupling testing) | 1. 发射功率 (MAX Power)<br>2. 接收灵敏度 (MIN Sens)                        | 1.2G/3G Tester: Agilent 8960<br><br>2.The coupling box: TESCOM TC-5060A<br><br>3. 3D Chamber: ETS 3D Chamber (5x3x3)                                                                                                                                   |
| 3. 3D 无源测试 (Passive Test)  | 1. 效率 (Effeciency)<br>2. 增益 (Gain)<br>3.辐射方向图 (radiation pattern) | 1. 3D Chamber: TEM24 3D Chamber (5x5x5)<br><br>ETS 3D Chamber (5x3x3)<br><br>2. 网分 (VNA) : Agilent E5071B<br><br>R&S ZVB8                                                                                                                              |
| 4.3D 有源测试 (Active Test)    | 1. 3D 功率 (TRP)<br>2. 3D 灵敏度 (TIS)<br>3.吞吐率 (Throughput rate)      | 1. 3D Chamber: TEM24 3D Chamber (5x5x5)<br><br>ETS 3D Chamber (5x3x3)<br><br>2.2G/3G Tester: Agilent 8960<br><br>3.4G Tester: MT8820C/CMW500<br><br>4.WIFI/BT/NB-iot Tester: CMW500<br><br>5. 5G Tester: SP9500-CTS<br><br>6.Head: HEAD-P10 (FACE-P10) |



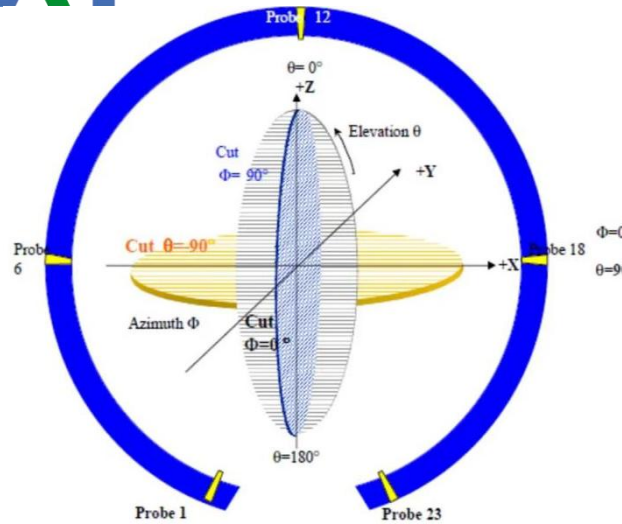
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## 二. Chamber coordinate axis (暗室坐标)



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### 三. Definitions (定义)

VSWR: Voltage Standing Wave Rate

RL: Return loss

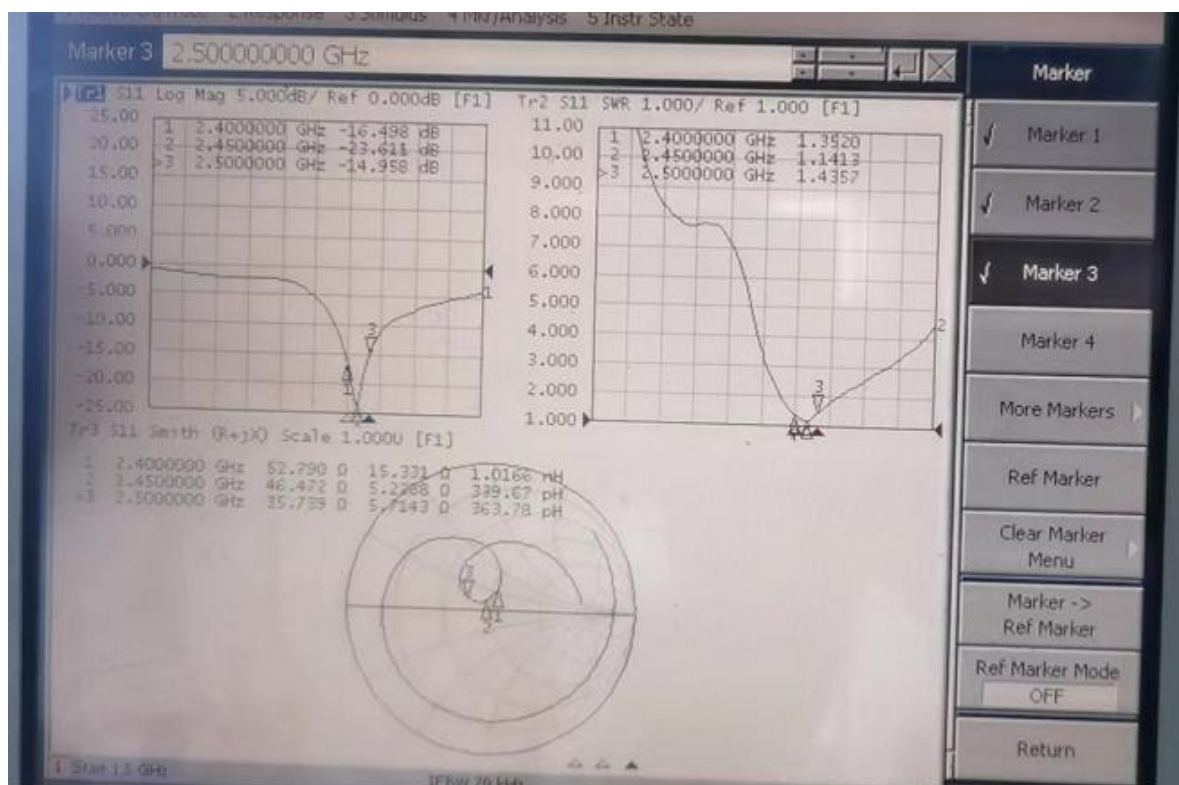
TRP: total radiated power

TIS: total isotropic sensitivity

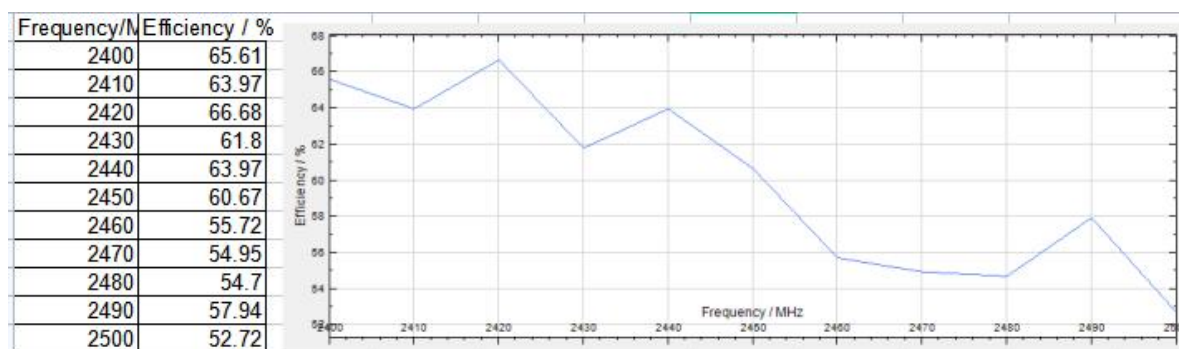


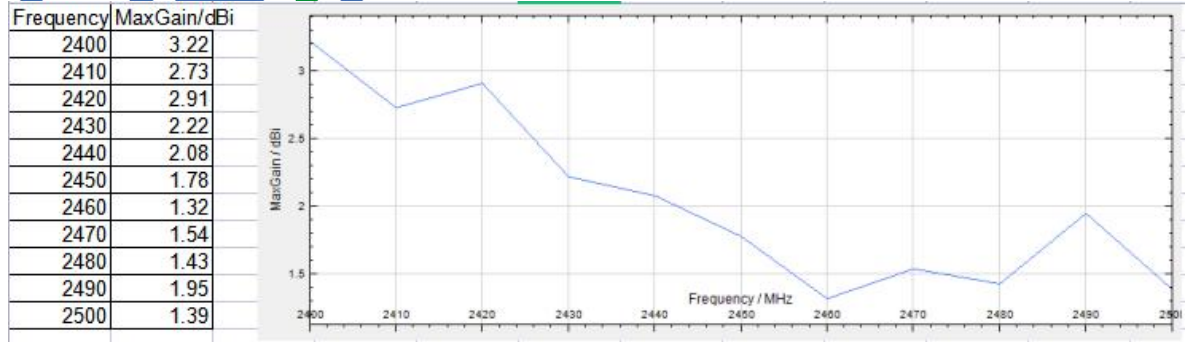
## 四. 无源测试

### 4.1 回波损耗/驻波比/史密斯圆图

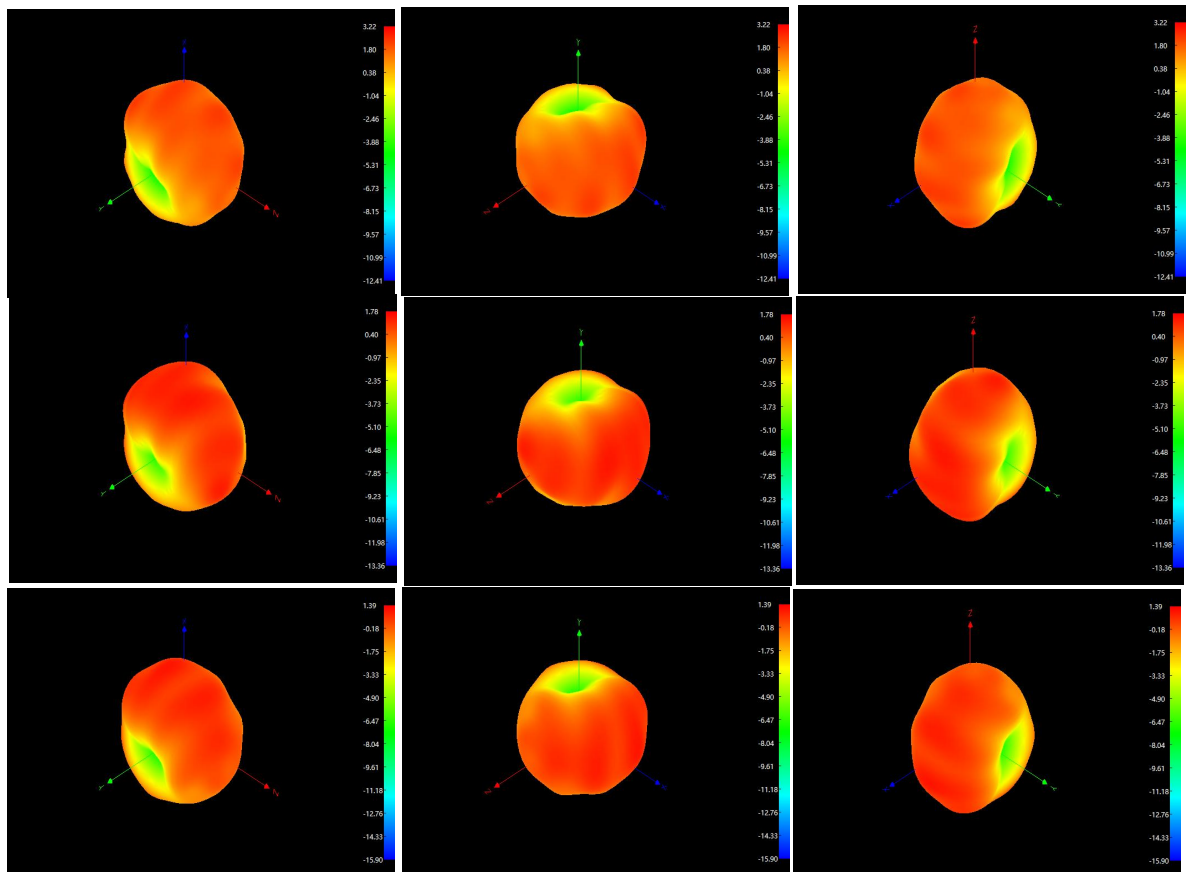


### 4.2 效率&增益





### 4.3 3D 方向图



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## Antenna Photo & Length ( mm )

