



祥康瑞

样品承认书

Parts Approval Sheet

生产供应商: <u>国质信</u>	物料名称: <u>TH12 Antenna</u>
Supplier	Parts Name
适用项目: <u>GM2401 网关</u>	NQI 料号: <u>NQI-TH12-M433-A</u>
Type/Spec	Parts No
品 牌: <u>NQI</u>	客户料号: _____
Brand	Quantity
送样日期: <u>2024/09/06</u>	文件编号: <u>NQI-RD-SPEC-20240906</u>
Send out Date	Document No
承认日期: _____	样品版本: <u>V0</u>
Approve Date	Version

Supplier		Customer	
Approved By	Prepared By	Engineering Dept	Quality Dept

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一. 样品图片及说明 (Sample picture and description) :

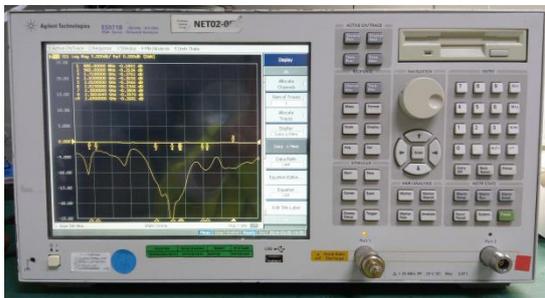
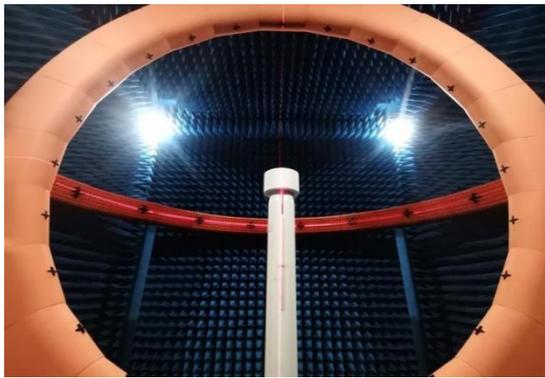
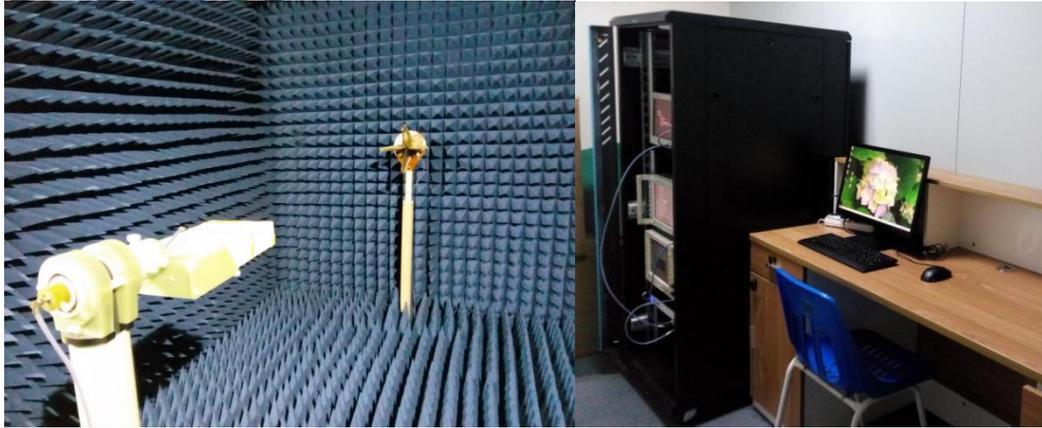


电气参数说明 (Electrical Specifications)	
频率范围 (Frequency range)	433MHz
特性阻抗 (impedance)	50 ohm
电压驻波比 (VSWR)	≤2
峰值增益 (Gain)	0dBi
极化形式 (Polarization)	线性
辐射方向 (Radiation direction)	全向
连接方式说明 (Connection Mode Description)	
连接器 (connector)	/
线缆规格 (Cable specifications)	/
工作/储存温度 (Working/Storage temperature)	
工作温度 (Working temperature)	-30℃~65℃
储存温度 (Storage temperature)	-30℃~75℃

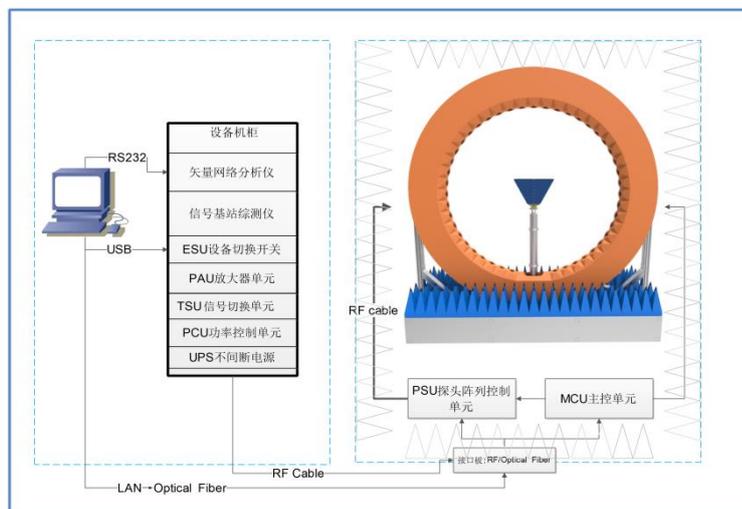


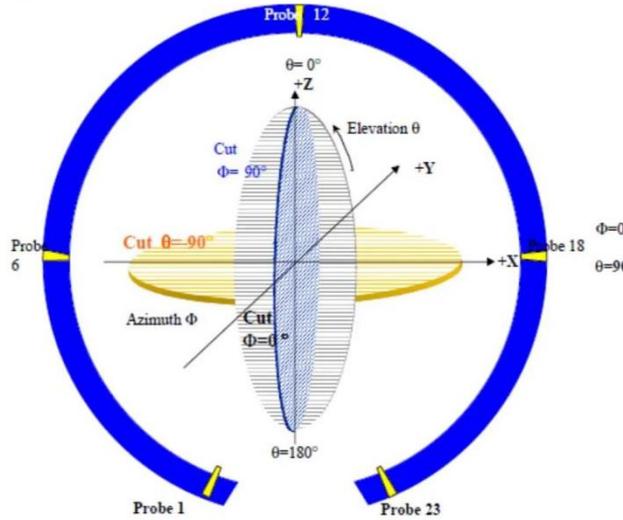
二. 试设备及项目 (Test equipment and items) :

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

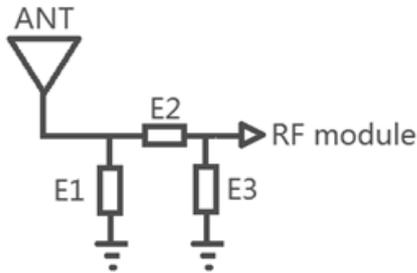


三. 暗室连接及坐标 (Chamber connection and coordinates) :





四. 天线匹配网络 (Antenna matching network) :

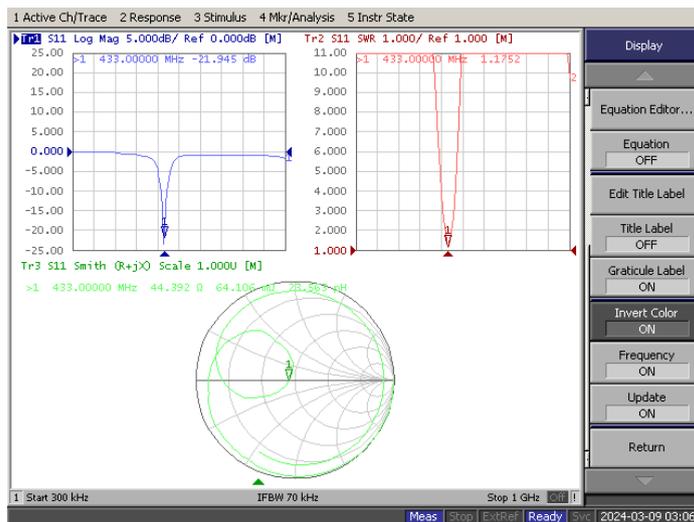


Element	(Value)
E1(0201)	NC
E2(0201)	0 Ω
E3(0201)	NC

五. 天线电性能测试数据 (Antenna electrical performance test data) :

5. 1. 天线无源参数 (Antenna passive parameters)

5.1.1. 天线回波损耗/驻波比/史密斯圆图 (RL/VSWR/Smith Chart)





六. 天线结构图纸 (Antenna structure drawing)

