

Youyoudianzi

样品承认书

Parts Approval Sheet

Supplier: Shenzhen NQI Network
Communication LtdParts Name: BT AntennaType/Spec: NQI-GS MH1 PRONQI Spec: NQI-GS MH1 PRO-BT-58X2Brand: NQIParts No: 16-GSME33111Send out Date: 2026/09/02Document No: NQI-RD-SPEC-20260905Approve Date: 2026/09/02Version: V3

Supplier		Customer	
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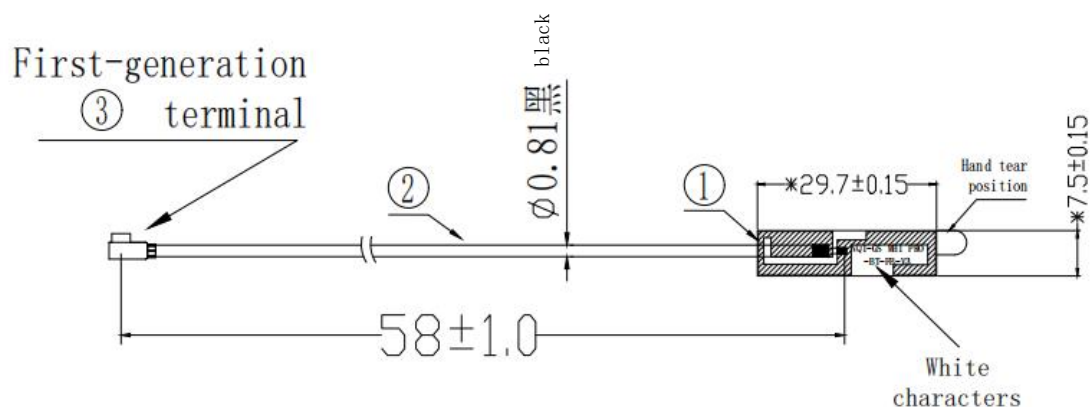
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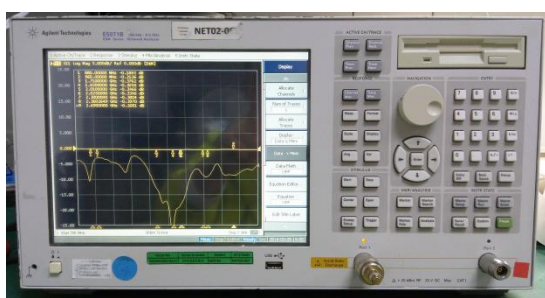
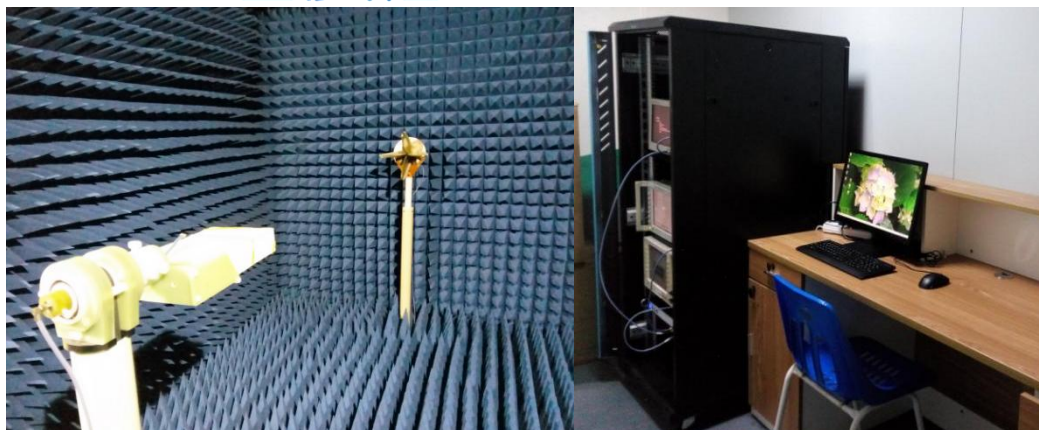
一. 样品图片&天线装配图及说明 (Sample picture and description) :



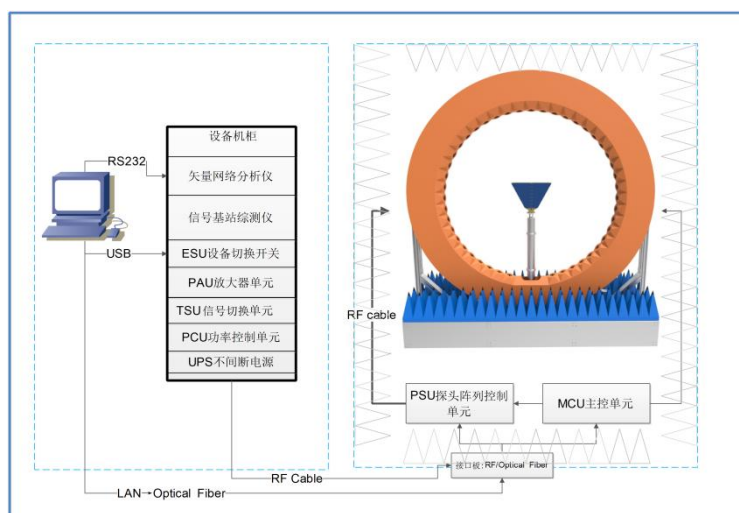
电气参数说明 (Electrical Specifications)	
频率范围 (Frequency range)	(2400-2500)MHz
特性阻抗 (impedance)	50 ohm
电压驻波比 (VSWR)	≤2.5
峰值增益 (Gain)	1.95DBi
极化形式 (Polarization)	horizontal
辐射方向 (Radiation direction)	all directioal
连接方式说明 (Connection Mode Description)	
连接器 (connector)	IPEX (2nd generation terminals)
线缆规格 (Cable specifications)	0.81*58MM coaxial line
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℃

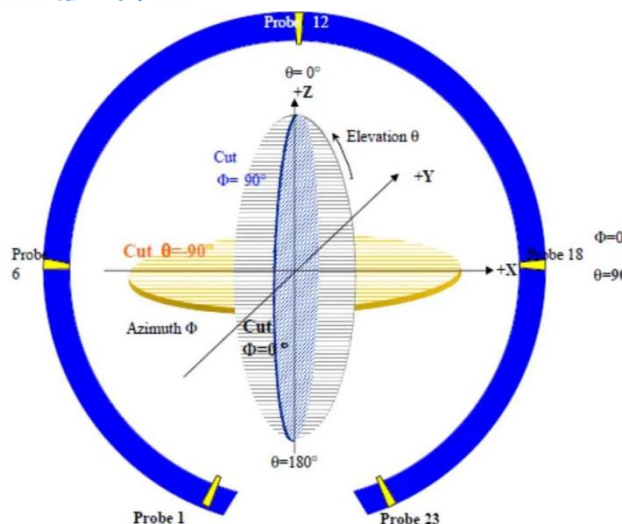
二. 试设备及项目 (Test equipment and items) :

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.斯密斯原图(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: TESCO 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)

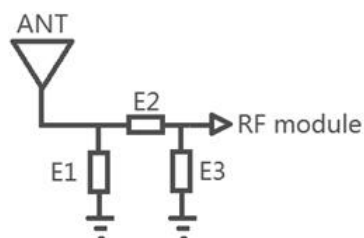


三. 暗室连接及坐标 (Chamber connection and coordinates) :



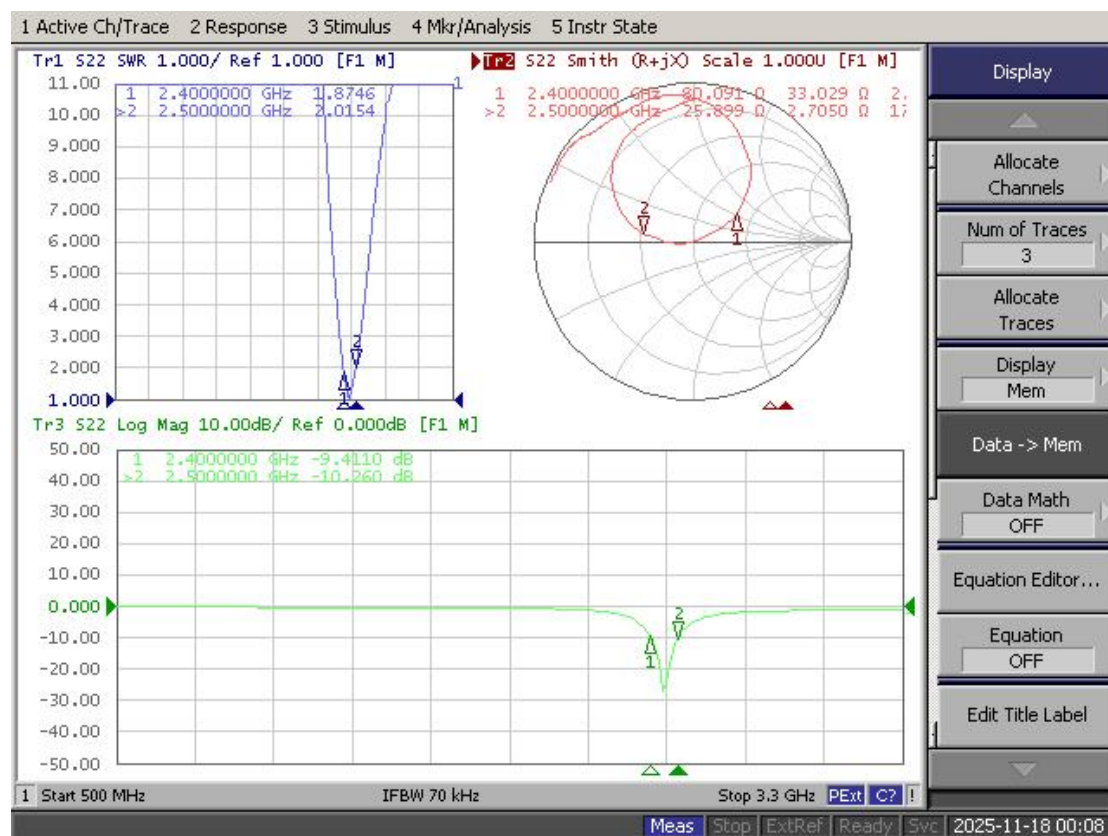


四. 天线匹配网络 (Antenna matching network) :



Element	L (Value)	R (Value)
E1	NC	NC
E2	0 Ω	0 Ω
E3	NC	NC

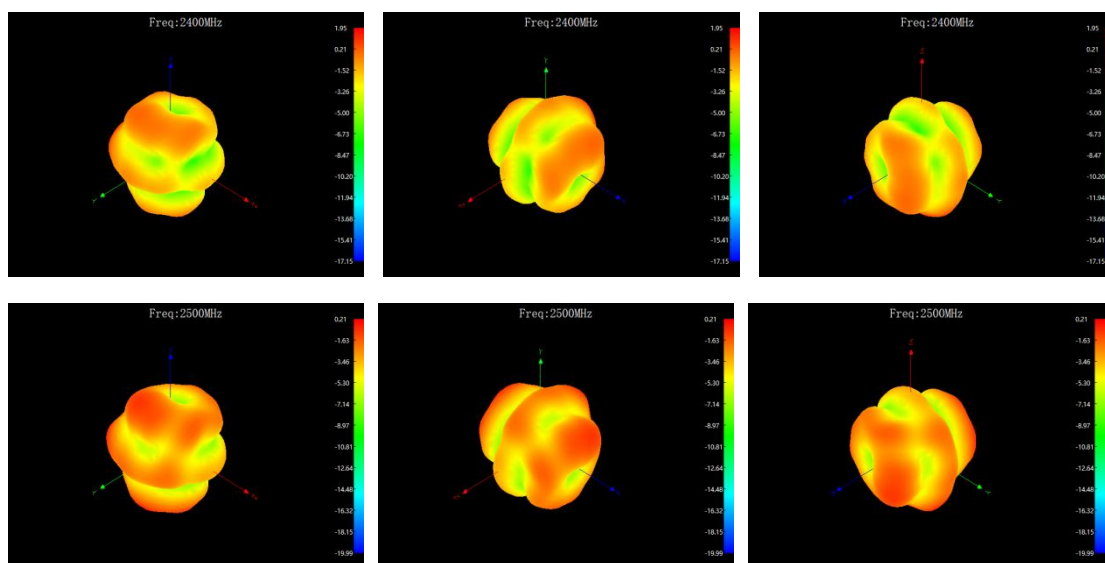
五. RL/VSWR/Smith Chart (回波损耗/驻波比/Smith)



5.1 增益及效率 (Gain and efficiency)

Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.95	40.93
2410	1.43	39.63
2420	1.75	42.46
2430	0.98	40.36
2440	0.57	41.4
2450	0.72	41.02
2460	0.74	41.02
2470	1.08	40.83
2480	0.64	38.73
2490	0.89	39.99
2500	0.21	37.24

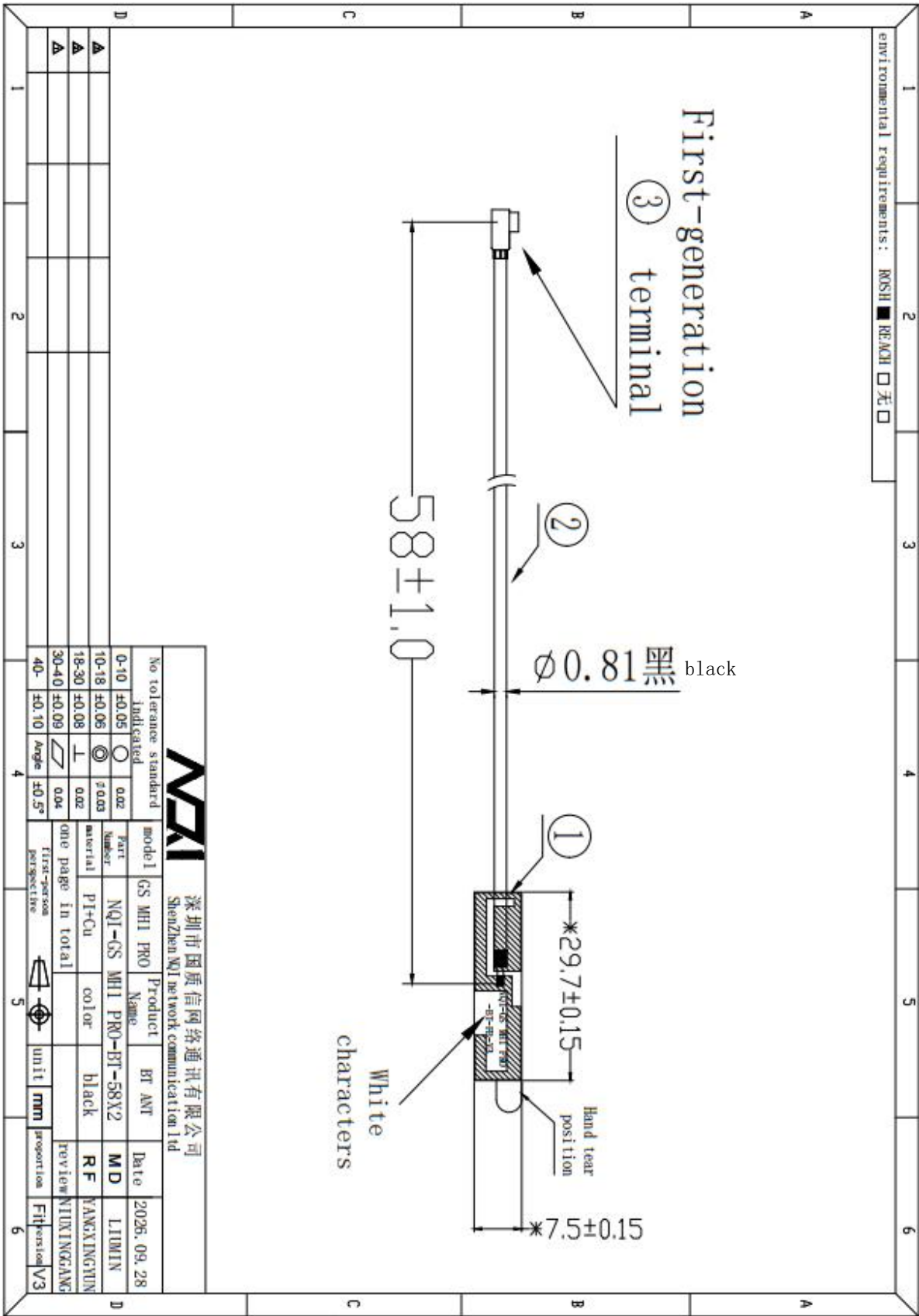
5.2 3 D 苹果图 (3 D apple graph)



5.3 TRP&TIS

自由空间 (free space)	Test	Bluetooth TRP		
	Result	0	39	78
	TRP (dBm)	3.83	3.81	4.23
	TIS (dBm)	-88.52	-88.36	-89.7
二代头耳模 (Head and ear)	Test	Bluetooth TRP		
	Result	0	39	78
	TRP (dBm)	2.19	2.24	2.71
	TIS (dBm)	-87.07	-87.08	-88.62

六、结构图纸 (Antenna structure drawing)



七 重点尺寸检验报告 (Key dimension inspection report) :

Confidential