



承 认 书

APPROVAL SHEET

客户名称 Customer Name RSR

产品型号 Product Model BAR1000MK2

客户料号 Customer P/N

规格描述 Specifications BT ANT

南斗星料号 Southstar P/N 3. N204. 0438

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南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

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承认书变更履历

Confirmation of Change of Resume

版本 version	日期 date	变更描述 Change description	备注 notes
1.0	2024.10.8	初版 First edition	
2.0	2025.2.13	变更海棉尺寸 Change the size of sponge	客户需求 customer demand



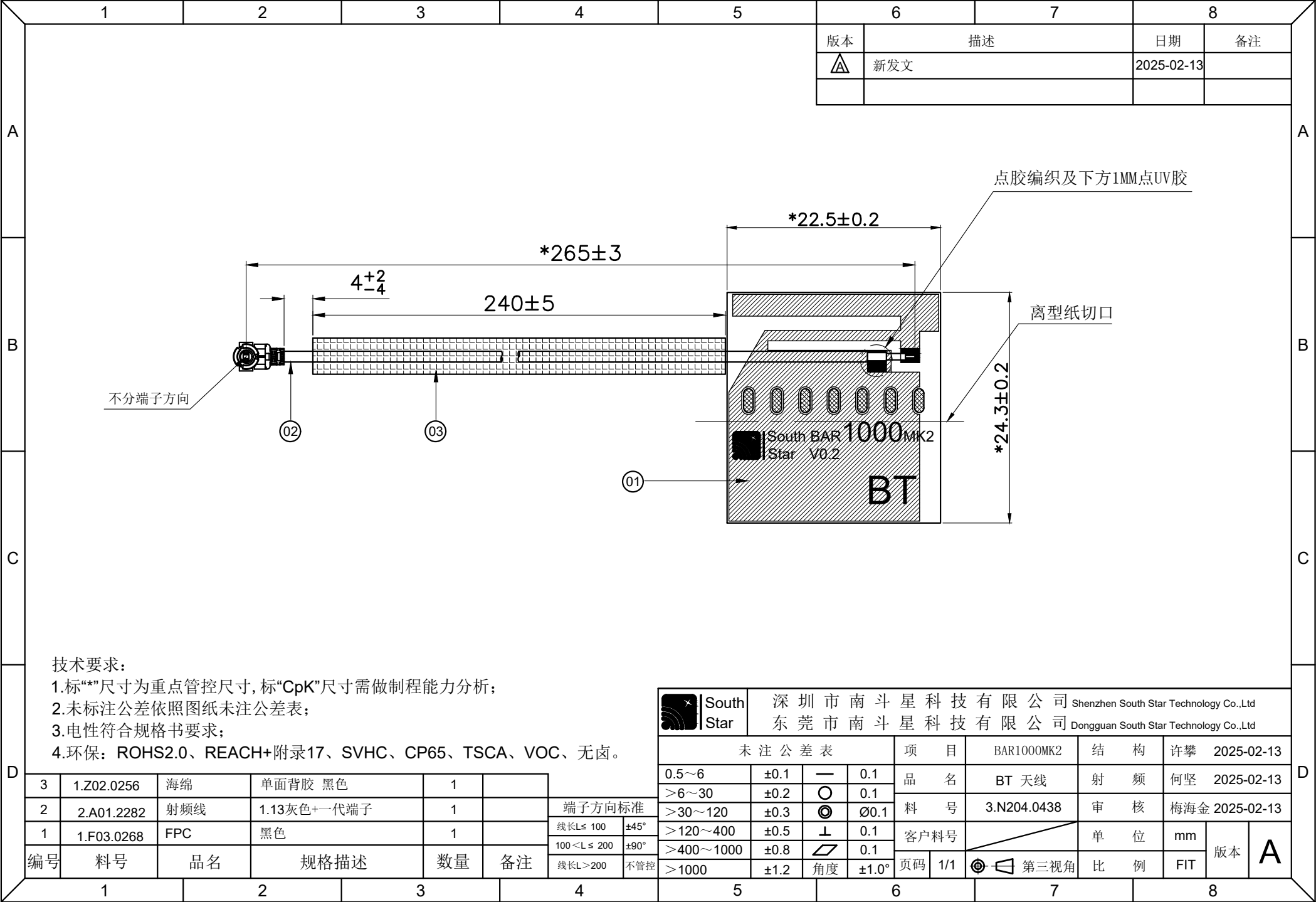
目 录

Index

一、封面 (Cover)	1
二、版本记录 (Colophon)	2
三、目录 (Index)	3
四、基本参数 (The basic parameters)	4
五、工程图纸 (Product Drawing)	5
六、测试设备 (Test Equipment & Conditions)	6
七、测试报告 (Test Report)	7-8
八、包装方式 (Packing method)	9

基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	< 2
Efficiency 效率	>40%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.31dBi
Antenna type 天线类型	PIFA
B. 材料&物理性能Material & Mechanical Characteristics	
射频材料 Material of Radiator	FPC Black
射频线类型 Cable Type	1.13mm Grey
接头类型 Connector Type	1 代
C. 环境 Environmental	
工作温度 Operation Temperature	- 30° C ~ + 65° C
存放温度 Storage Temperature	- 40° C ~ + 70° C



测试设备 (Test Equipment & Conditions)

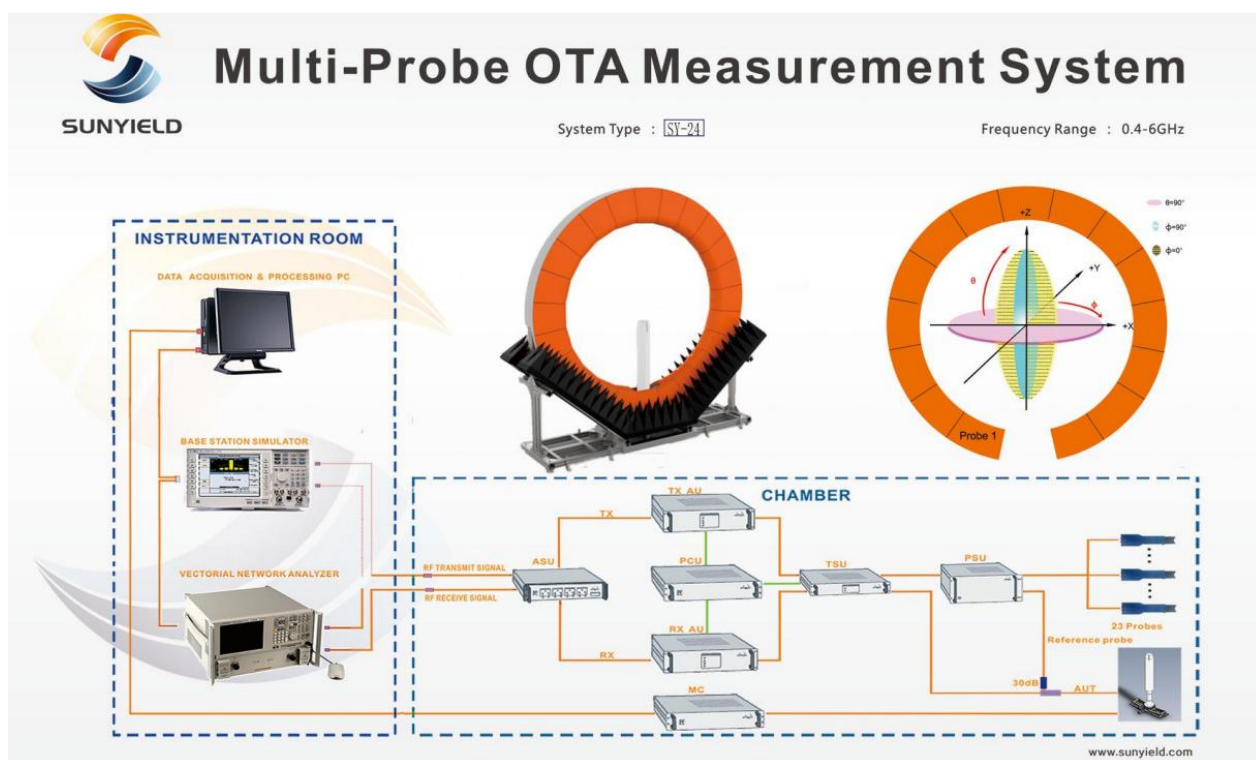
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

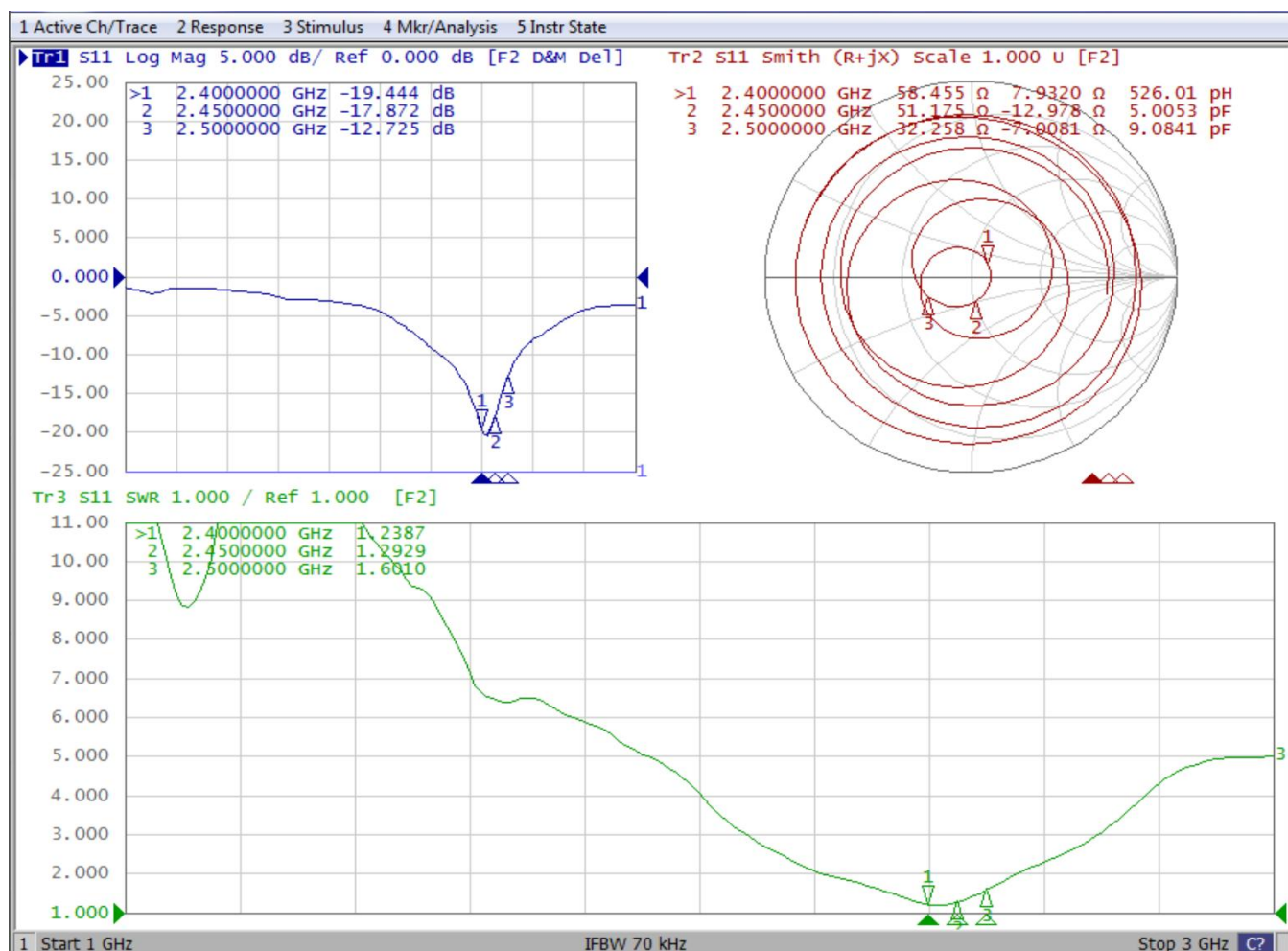
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



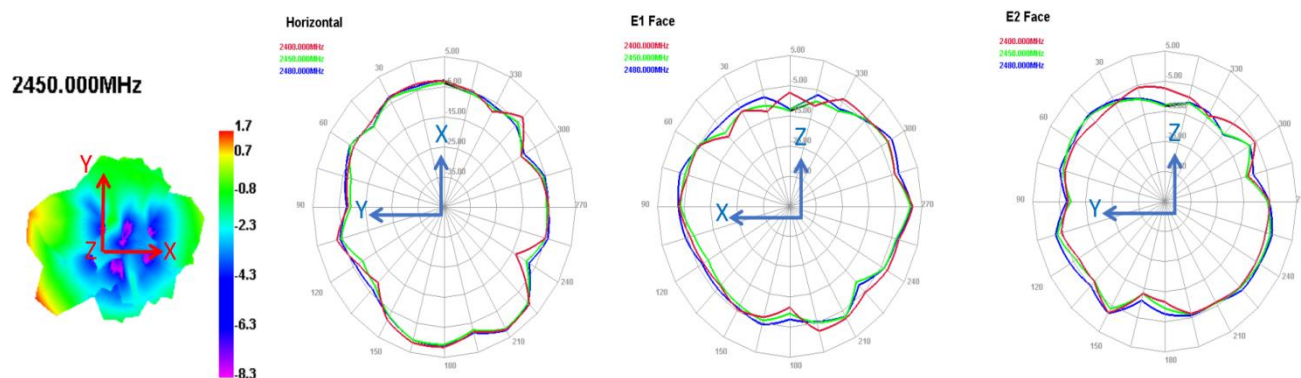
天线阻抗Antenna Impedance: S11



效率&增益Efficiency & Gain:

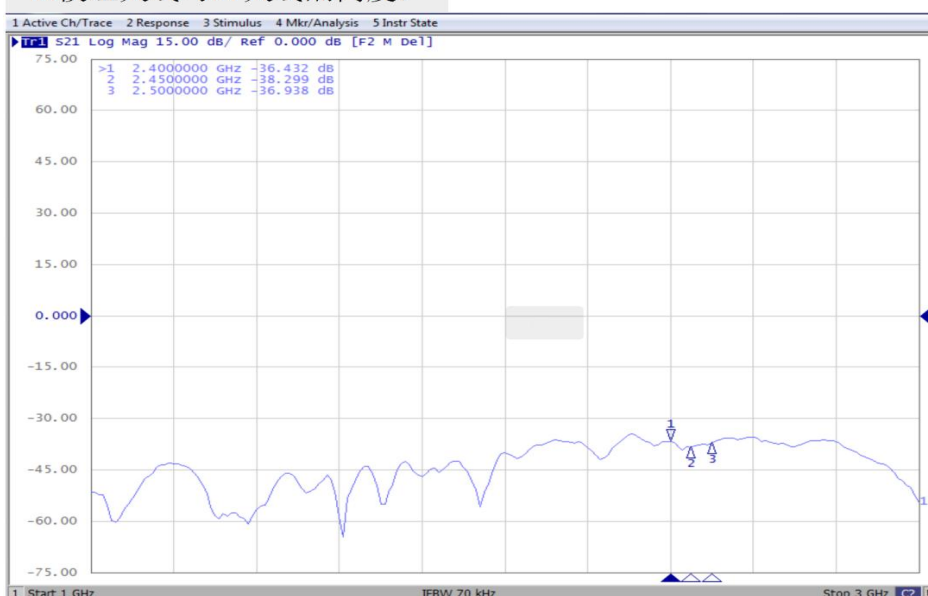
Freq (MHz)	Effi (%)	Peak Gain (dBi)
2400	44.01	2.02
2410	43.91	1.94
2420	44.13	1.89
2430	43.06	1.85
2440	43.71	1.76
2450	43.96	1.74
2460	43.38	1.85
2470	44.24	2.13
2480	44.33	2.31
2490	43.12	2.25
2500	44.08	2.27
avg.	43.81	

天线3D&2D方向图Antenna 3D & 2D pattern:



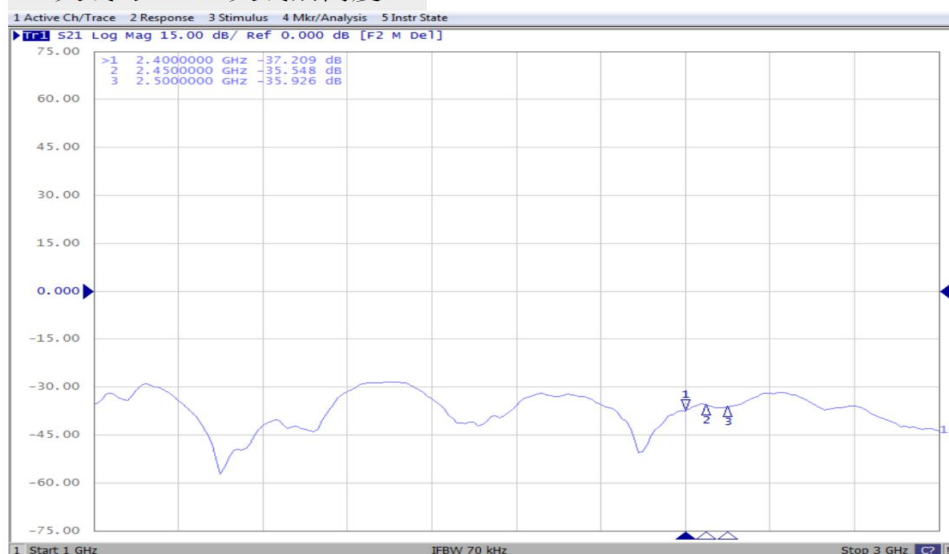
隔离度Isolation:

TX模组天线与BT天线隔离度:



频率 (MHz)	S21(dB)
2400	-36
2450	-38
2500	-36

BT天线与WIFI-1天线隔离度:



频率 (MHz)	S21(dB)
2400	-37
2450	-35
2500	-35

