



APPROVAL SHEET

制作版本 Revision 3.0

南斗星 (Southstar)		
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网站 (website) : [//www.southstar-tech.com](http://www.southstar-tech.com)

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	2025. 7. 30	初版 First edition	
2.0	2025. 9. 25	优化天线 Antenna optimization	
3.0	2025. 10. 17	海绵尺寸变更 Sponge size change	



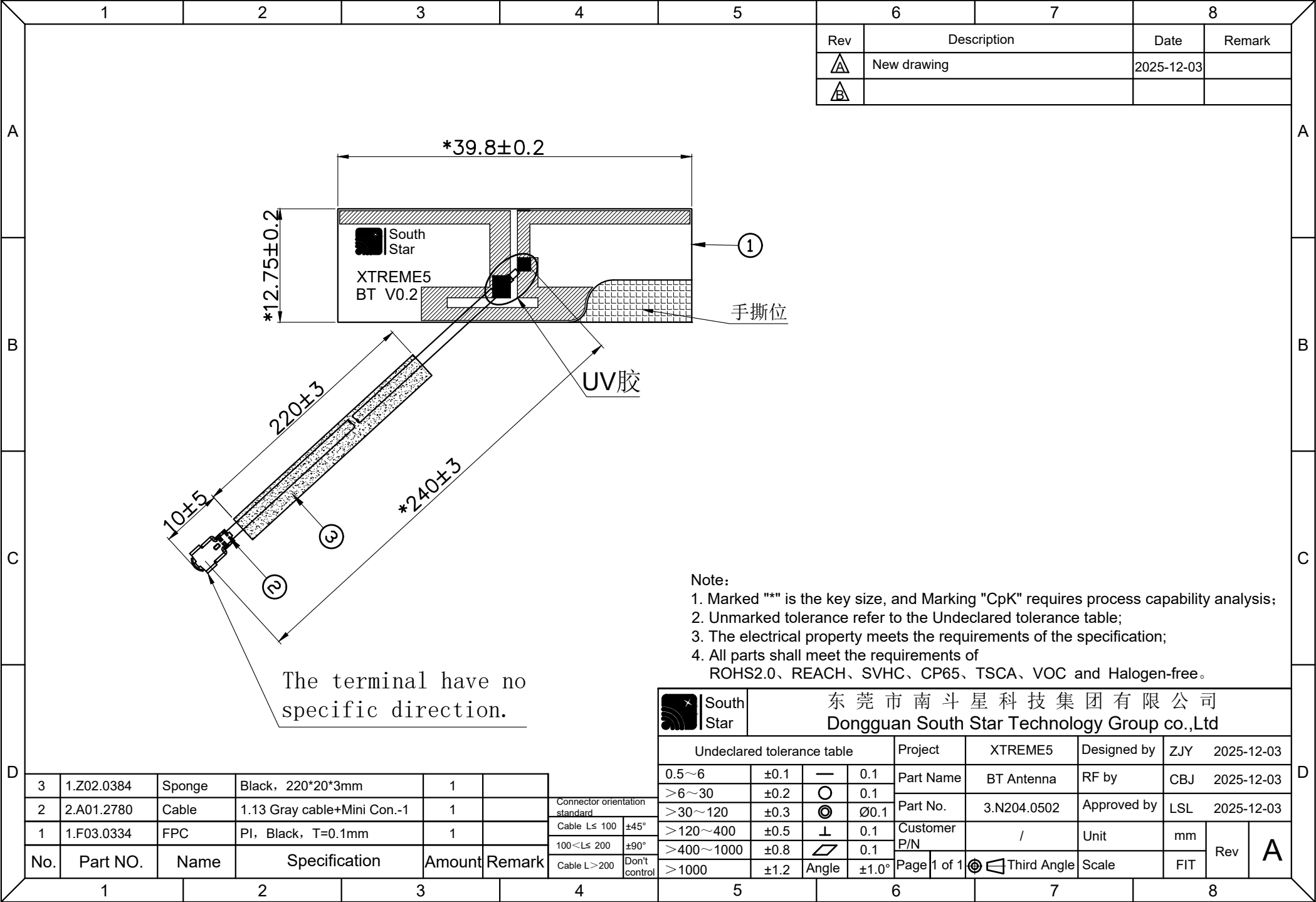
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基本参数 (The basic parameters)

A. 电性能Electrical Characteristics	
Frequency 频率	2400MHz~2500MHz
VSWR 电压驻波比	<2
Avg. Efficiency 效率	>50%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Peak Gain 最大增益	2.36dBi
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	Mini Con.-1
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)

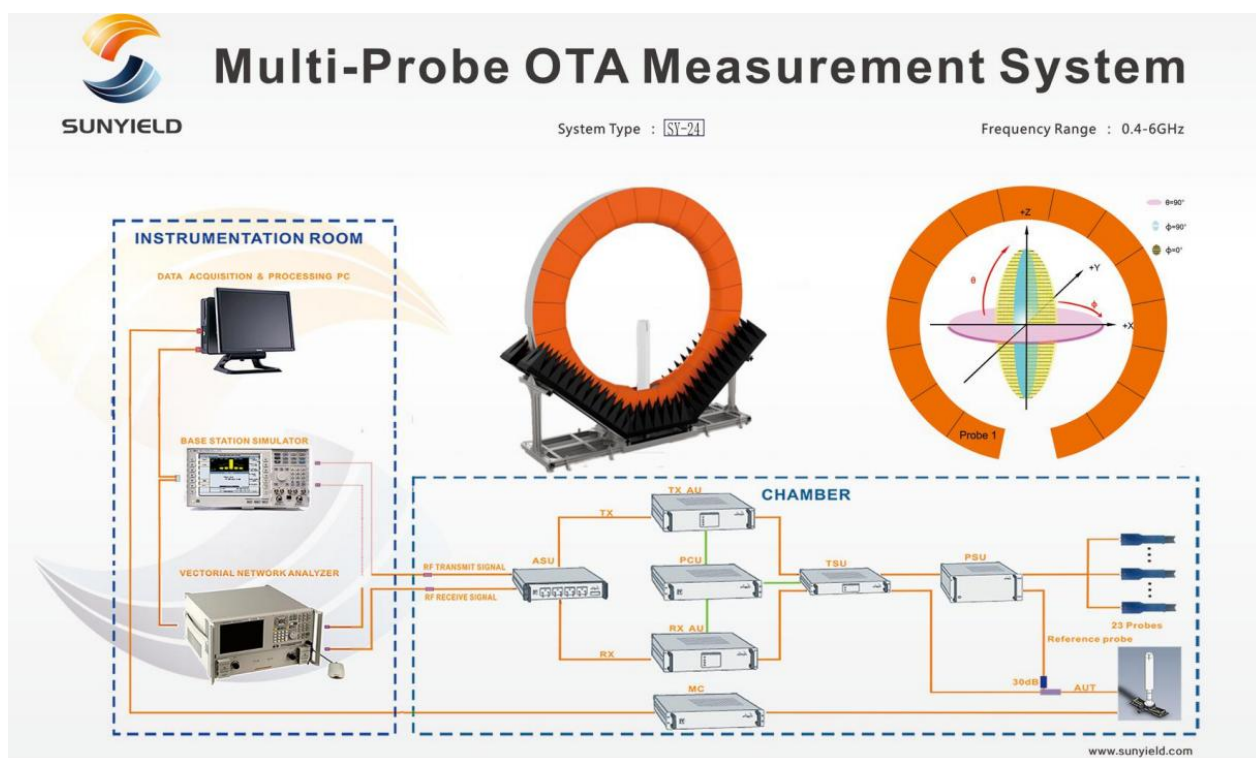
1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

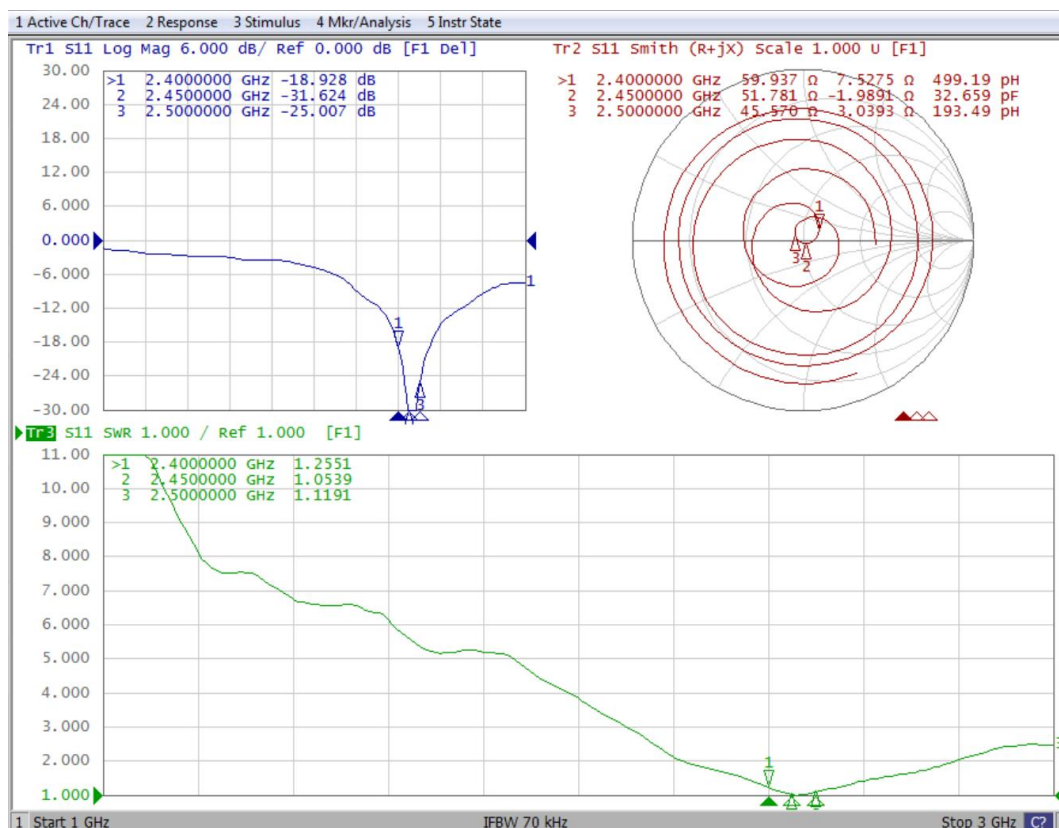
2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:



天线阻抗Antenna Impedance: S11

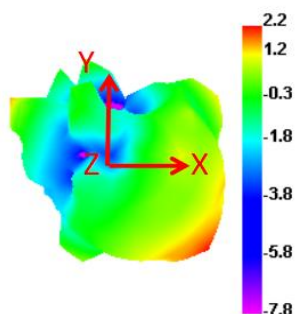
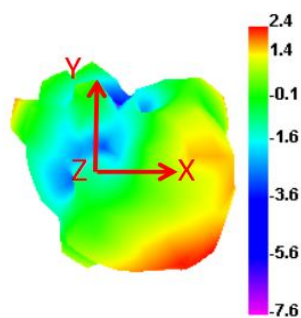
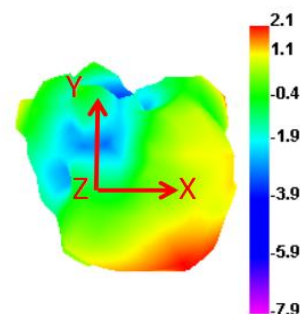
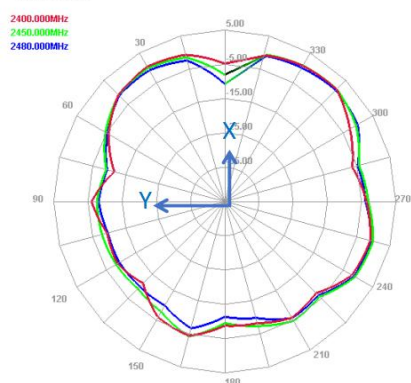
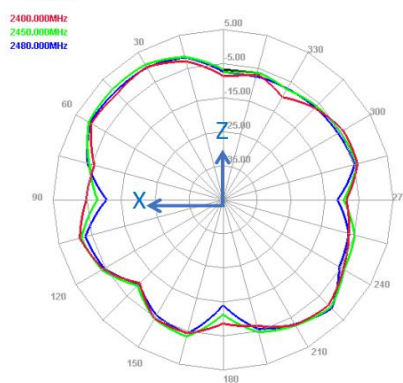
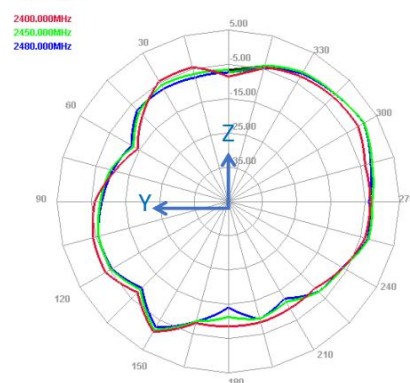


效率&增益Efficiency & Gain:

Freq (MHz)	Effi (%)	Peak Gain (dBi)
2400	54.38	2.2
2410	54.87	2.17
2420	55.92	2.19
2430	56.93	2.23
2440	57.28	2.24
2450	58.39	2.36
2460	58.58	2.19
2470	57.85	2.25
2480	56.21	2.15
2490	55.31	2.21
2500	55.27	2.25

avg. 56.45

天线3D&2D方向图Antenna 3D & 2D pattern:

2400.000MHz

2450.000MHz

2480.000MHz

Horizontal

E1 Face

E2 Face

OTA:

PV 1#	信道	TRP	TIS
	0	6.91	-93.75
	39	7.17	-93.82
	78	7.22	-93.91

PV 2#	信道	TRP	TIS
	0	6.59	-93.51
	39	6.72	-93.67
	78	7.03	-93.82

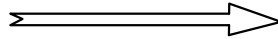


Date: 2025-12-03

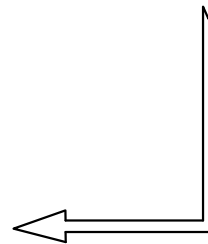
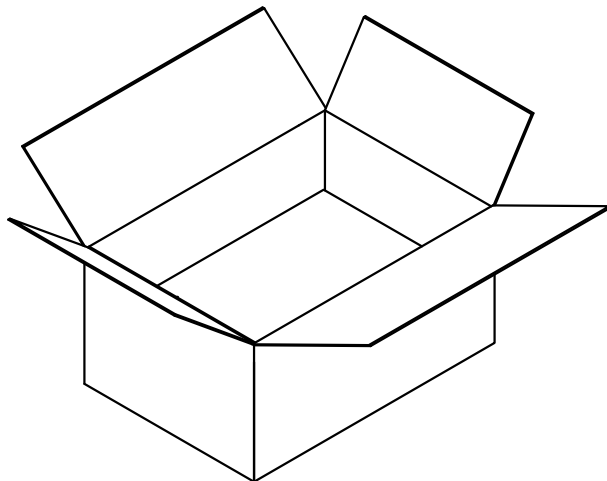
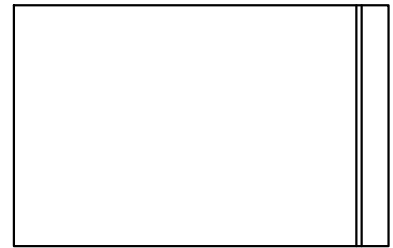
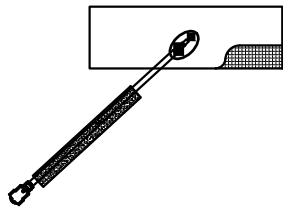
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Name : XTREME5 Antenna	Version: A
	Customer: Tymphany

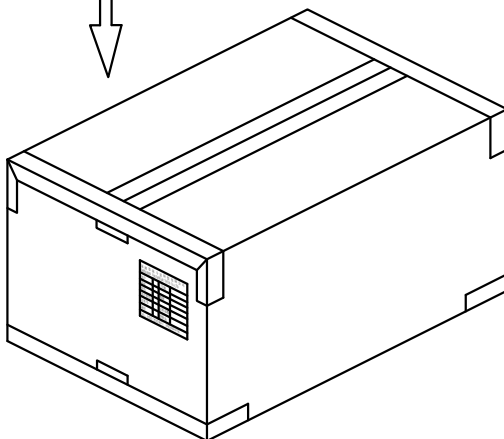
1. The Product



2. 50PCS/per Bag



3. Packing (subject to actual packing) .



DESIGNED By: ZJY

APPROVED By: LSL