



South
star

SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

APPROVAL SHEET

Sample seal

Customer Name Roborock

Product Model CPS Shrapnel

Customer P/N 1. 16. 0030

Southstar P/N 3. N204. 0514

Production date 2025. 09. 05

Revision Rev. 2. 0

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

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History

Version	Date	Change Description	Note
Rev. 1. 0	2025. 08. 28	First edition	
Rev. 2. 0	2025. 09. 05	Update the drawing, Increase dispensing	



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Antenna Specification

A. Electrical Characteristics	
Frequency	2400MHz~ 2500MHz, 5150MHz~5850MHz
VSWR	<2
Efficiency	>39%
Impedance	50 Ohm
Polarization	Linear
Gain	2.4G:2.18dBi;5G:2.13dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	shrapnel
Cable Type	1.13 Black
Connector Type	First generation terminal
C. Environmental	
Operation Temperature	- 30°C ~ +65°C
Storage Temperature	- 40°C ~ +70°C



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Test Equipment & Conditions

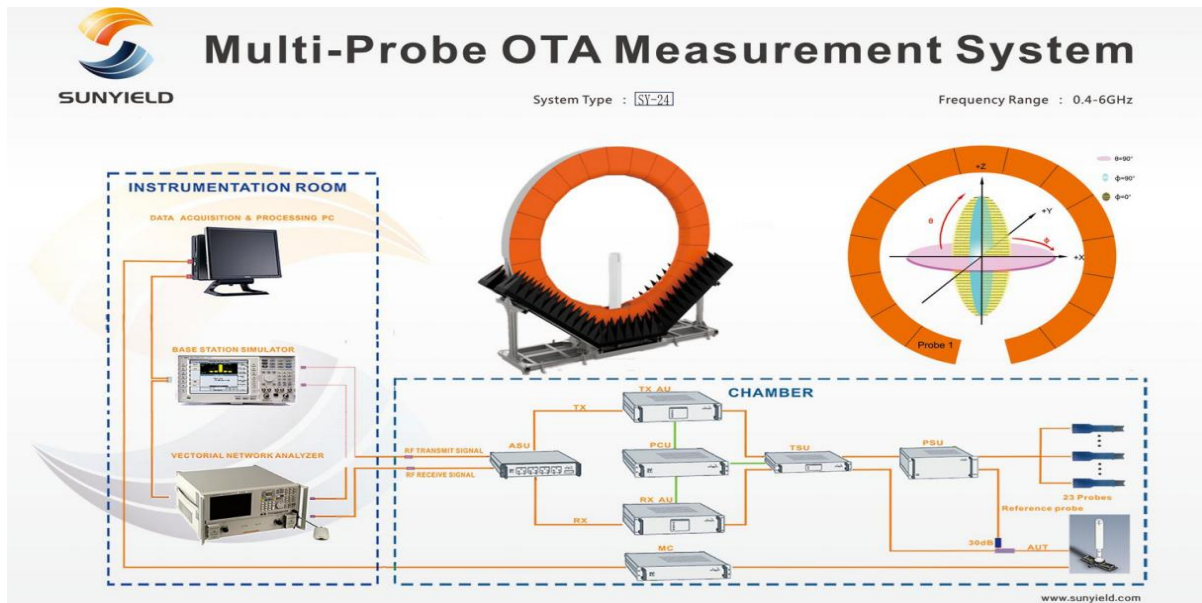
1. NetWork Analyzers:

Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:

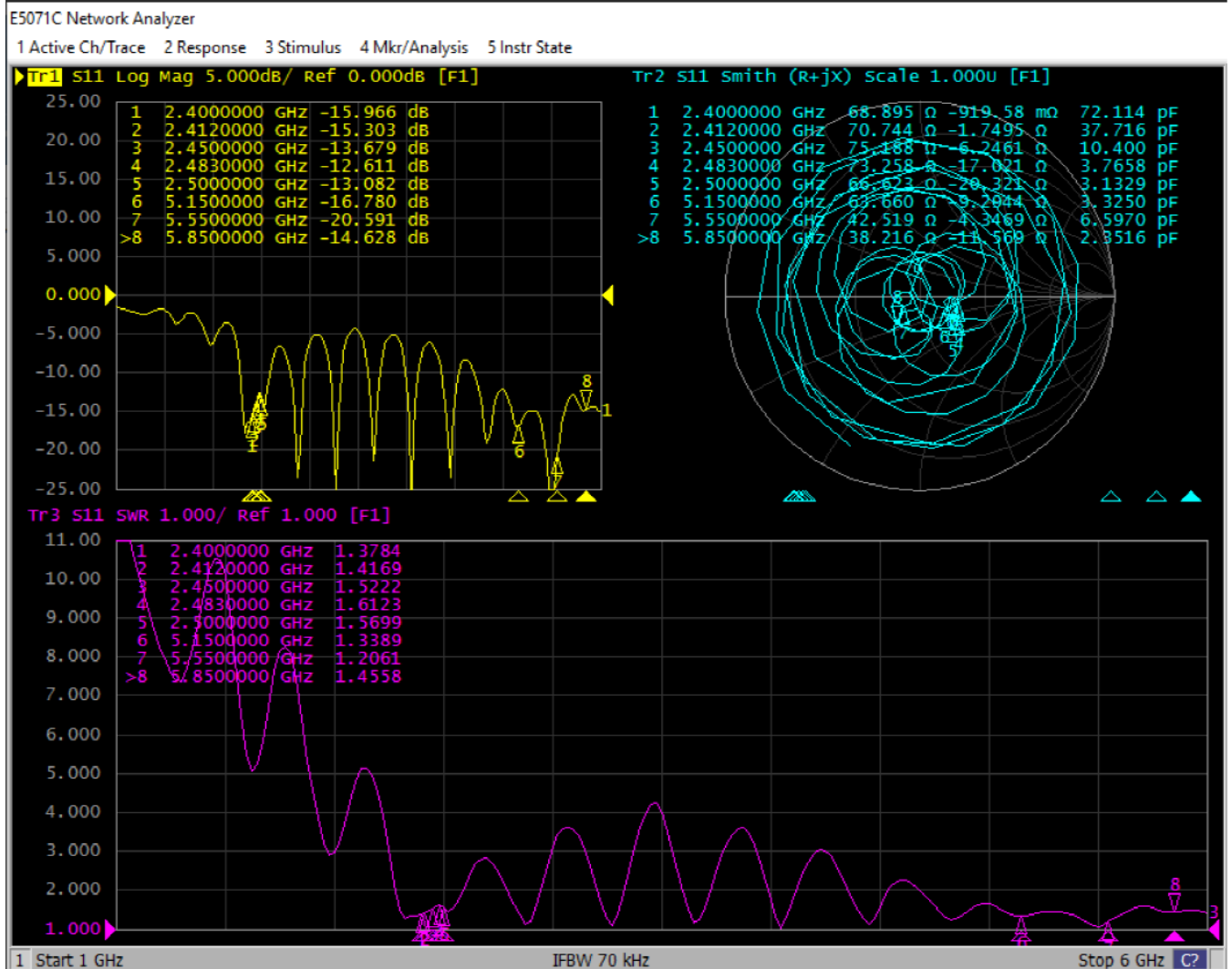




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Antenna Impedance: S11



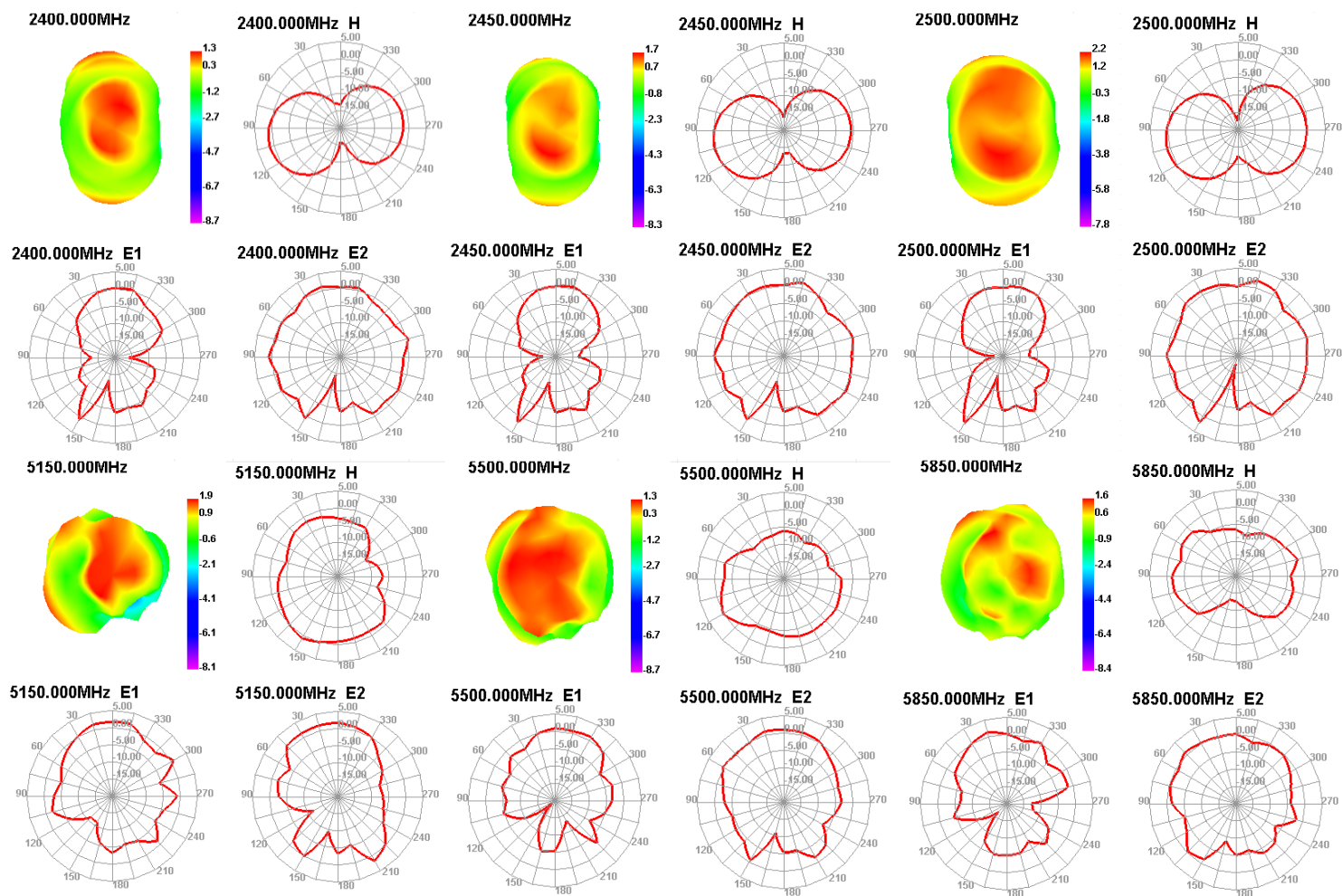


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Efficiency & Gain:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.2	1.26	5150	44.74	1.93
2410	41.95	1.34	5200	45.8	2.13
2420	41.49	2.01	5250	46.02	1.83
2430	41.31	2.16	5300	46.38	1.3
2440	40.95	1.94	5350	45.66	1.14
2450	41.05	1.71	5400	45.4	1.45
2460	41.32	1.85	5450	45.02	1.45
2470	41.49	2.12	5500	45.82	1.27
2480	41.29	2.15	5550	43.59	1.47
2490	40.85	2.17	5600	40.72	1.65
2500	39.74	2.18	5650	42.94	2.12
			5700	41.97	2.01
			5750	42.29	1.66
			5800	42.21	1.57
			5850	44.24	1.63

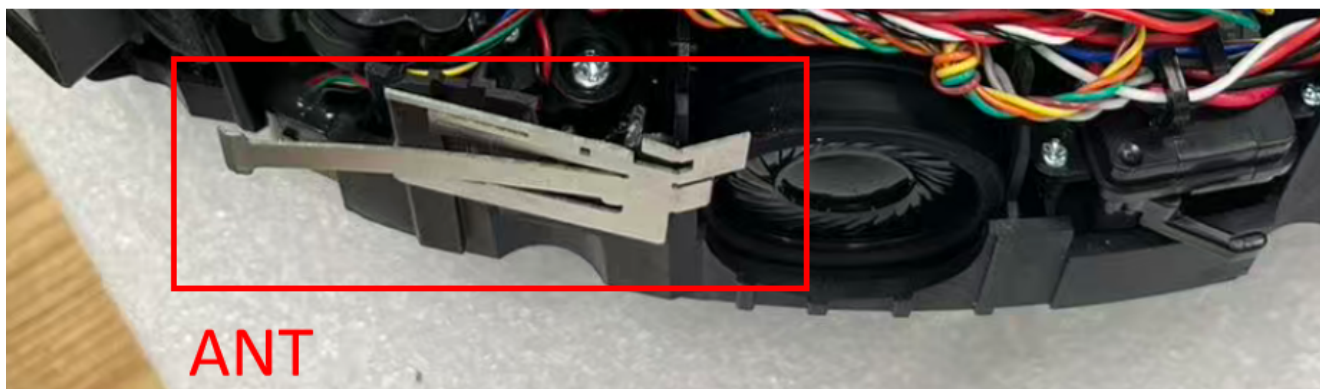




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Antenna assembly picture:



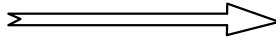
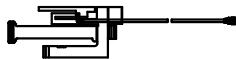


Date: 2025-09-17

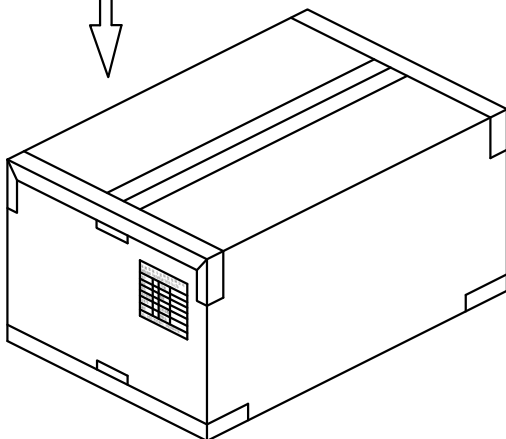
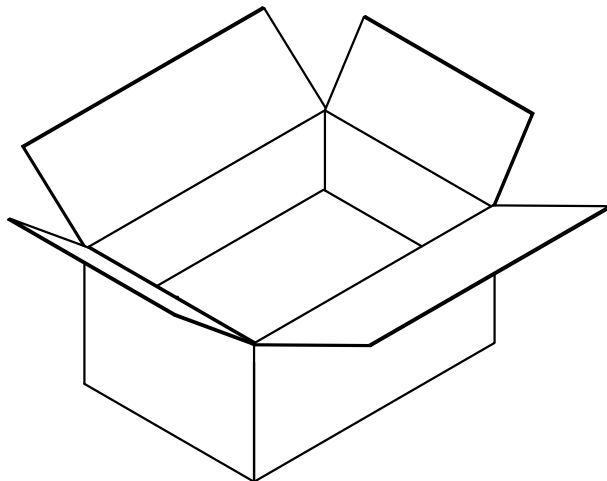
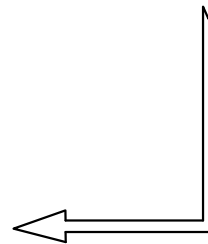
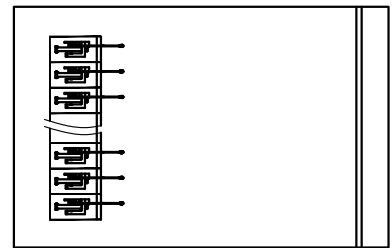
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Name : CPS Bumper	Version: A
	Customer: Roborock

1. The Product



2. Place in PE bags. Pack 10 pieces per bag. Use foam peanuts to wrap the terminals for every 20 pieces. Then, pack 5 small bags in each large PE bag, totaling 100 pieces. Attach internal labels.



3. Packing (subject to actual packing) .

DESIGNED By: ZJY

APPROVED By: LSL