

APPROVAL SHEET

Customer Name XIAOMI

Product Model RD23

Customer P/N L530100074621

Specifications 5G-2, 5dBi, White housing, 1.37White RFcable L=160mm

Southstar P/N 3.N102.1052

Production date 2024-03-15

Revision 1.0

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

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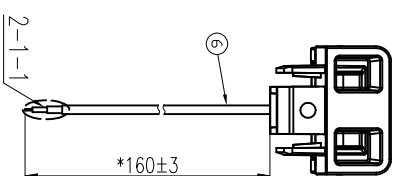
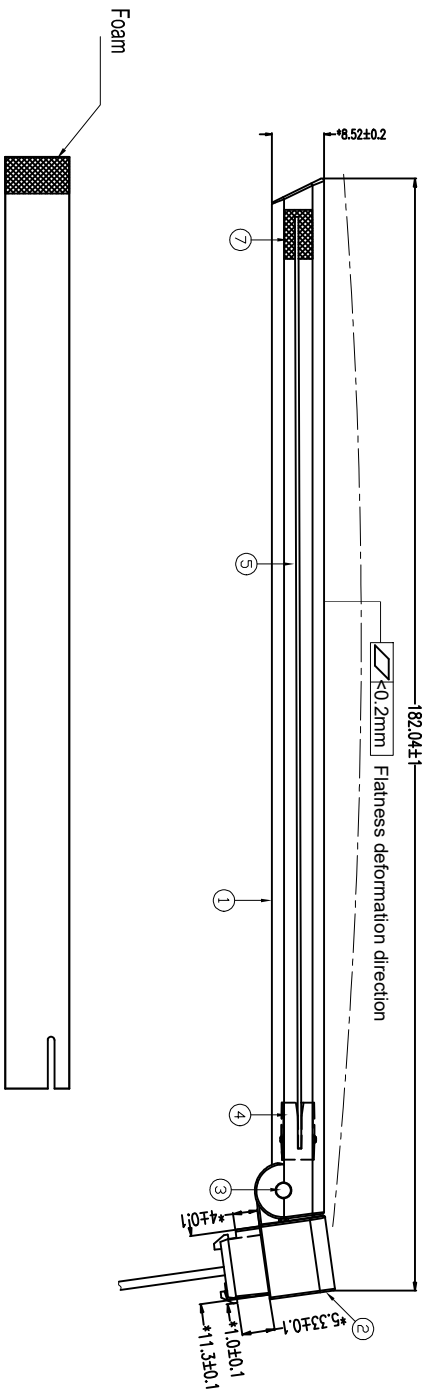
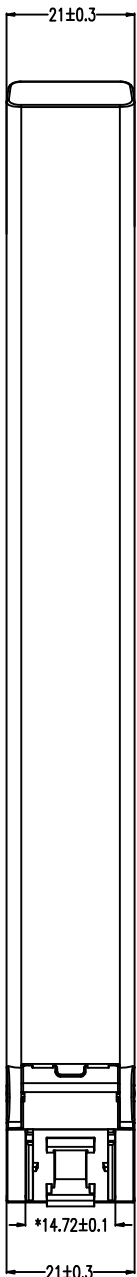
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Antenna Specification

A. Electrical Characteristics	
Frequency	5150MHz~5850 MHz
VSWR	≤ 2
Efficiency	$> 60\%$
Impedance	50 Ohm
Polarization	Linear
Gain	5800 MHz@6.41dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	5G: 1.37 White
Connector Type	soldering
C. Environmental	
Operation Temperature	- 30 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 70 °C

Rev	Description	Date	Remark
A	New drawing	2024-03-15	



- Note:**
1. Marked "*" is the key size, and Marking "CpK" requires process capability analysis;
 2. Unmarked tolerance refer to the Undeclared tolerance table;
 3. The electrical property meets the requirements of the specification;
 4. All parts shall meet the requirements of RoHS2.0 and REACH。

7	1.Z02.0396	5G/Foam	EVA Black, 10.5*15*2.5mm	1	
6	2.A02.1475	5G-1/Cable	φ1.37 White	1	
5	2.A21.0463	5G/PCB	FR4 Black T=0.6mm	1	
4	2.A07.0558	Plug	ABS White	1	
3	2.A07.0123	Rivet	POM White	2	
2	2.A07.0557	Base	PC+ABS White	1	
1	2.A07.0547	Body	ABS White	1	
No.	Part NO.	Name	Specification	Amount	Remark
1	2	3	4		

4	5	6	7	8
Cable L > 200	Port Control	44°	±45°	
100 < L ≤ 200		±90°		

		South Star 深圳市南斗星科技有限公司 Dongguan South Star Technology Co., Ltd		Shenzhen South Star Technology Co., Ltd Dongguan South Star Technology Co., Ltd	
Undeclared tolerance table			Project	MD03	Designed by
0.5~6	±0.1	—	Part Name	5G-2 Antenna	梅海金 2024-03-15
>6~30	±0.2	○	Part No.	3.N102.1052	张辉 2024-03-15
>30~120	±0.3	◎	Customer	L530100074621	
>120~400	±0.5	⊥	P/N		
>400~1000	±0.8	∠	Page 1 of 1		
>1000	±1.2	Angle	Third Angle		

Test Equipment & Conditions

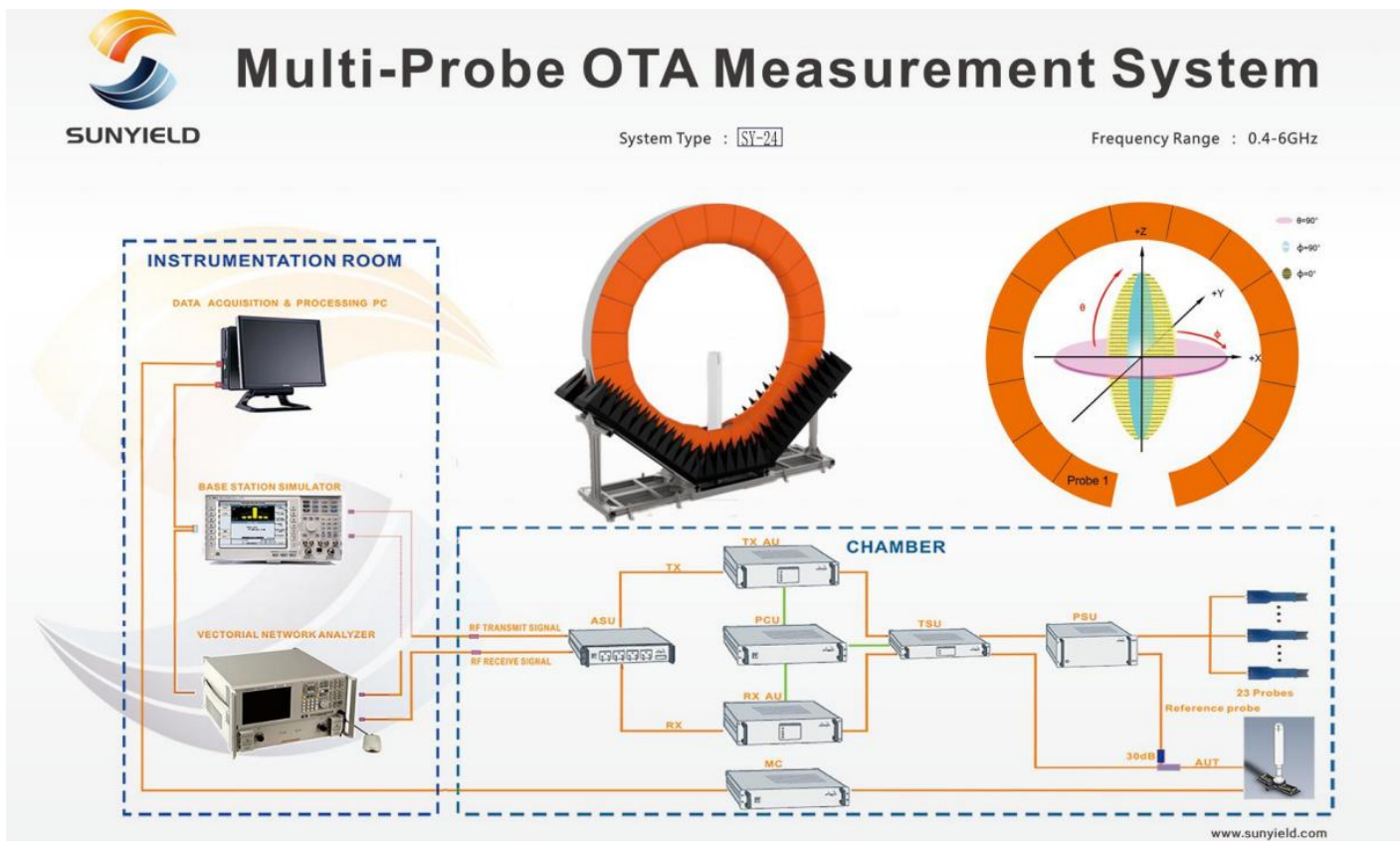
1. Network Analyzers:

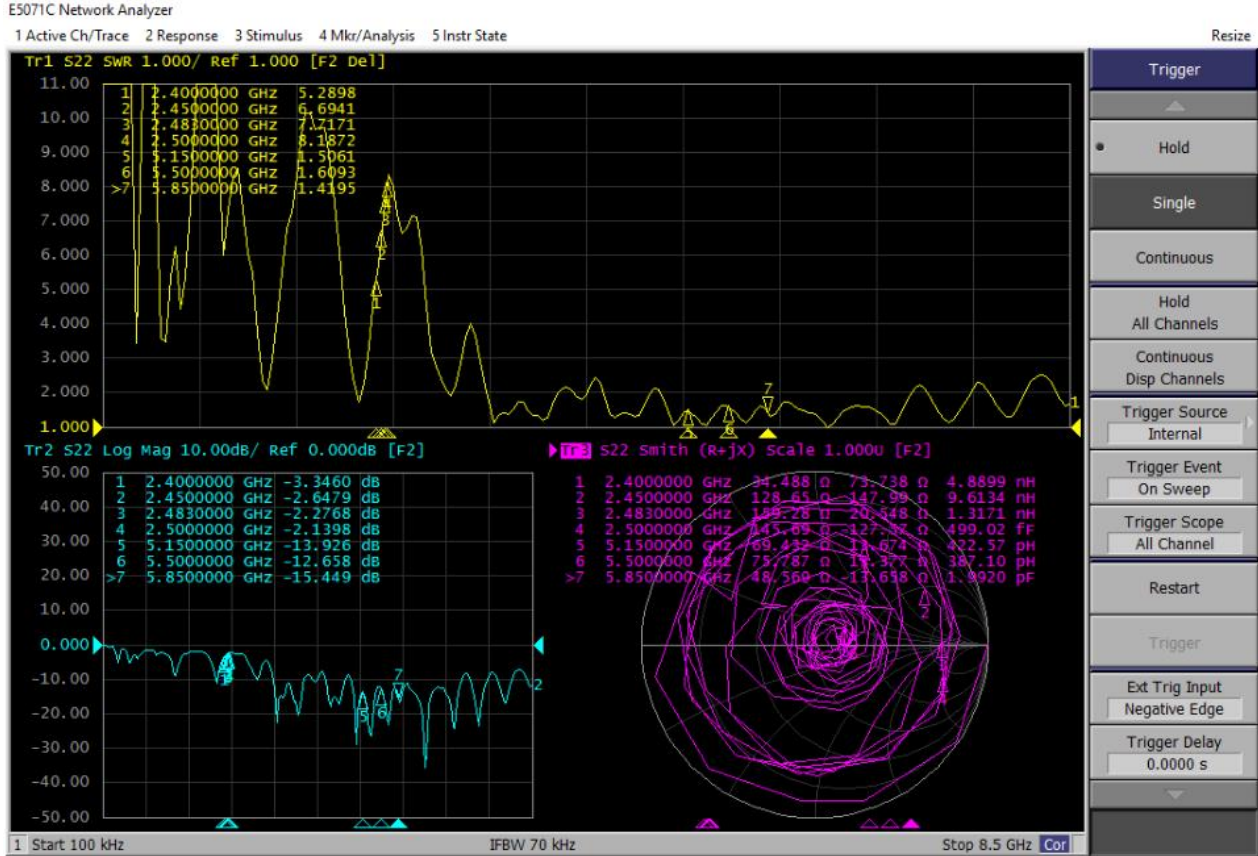
Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

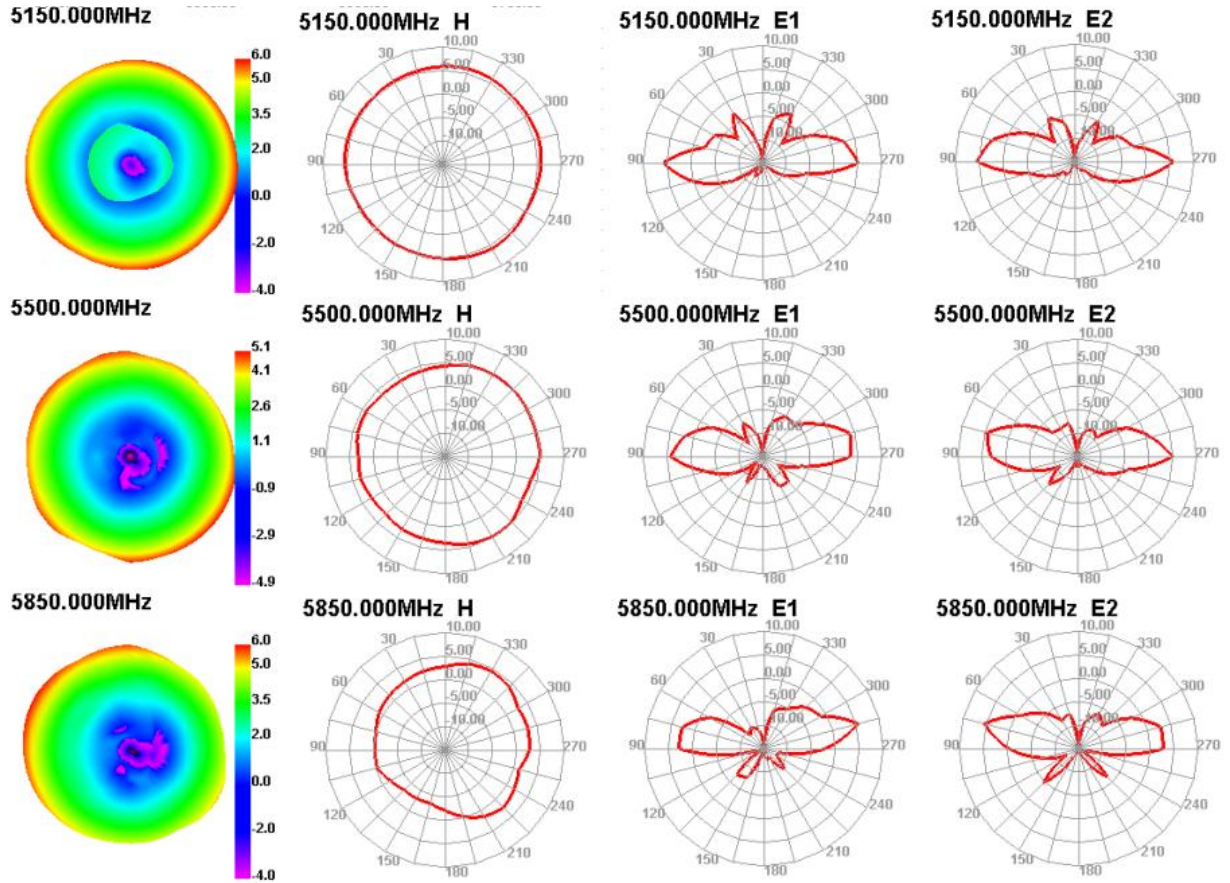
3. 3D Chamber Test System:



Antenna Impedance:
S11

效率&增益(Efficiency & Gain):

Freq (MHz)	Effi (%)	Gain (dBi)
5150	79.86	6.02
5200	74.09	5.46
5250	69.2	5.01
5300	72.16	5.07
5350	74.05	5.03
5400	71.59	4.8
5450	68.68	4.48
5500	77.11	5.13
5550	79.88	5.25
5600	76.52	5.24
5650	73.96	5.36
5700	71.04	5.62
5750	68.77	6.02
5800	69.55	6.41
5850	76.03	6.03

Antenna 3D & 2D pattern:





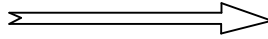
SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

antenna assembly picture:

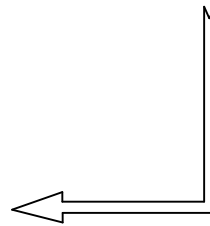
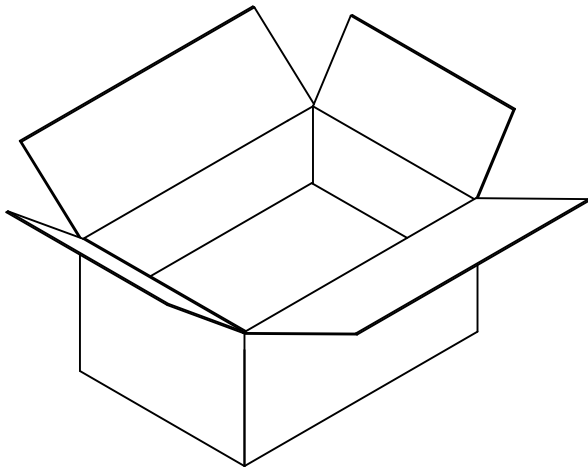
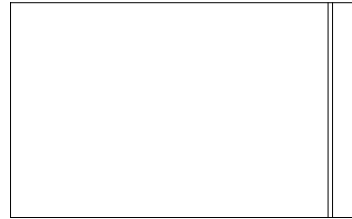


Name : MD03 Antenna	Version: A
	Customer: XIAOMI

1: The product



二: 30PCS/per PE Bag。



3.Packing (according to the actual quantity of packing)

