

APPROVAL SHEET

Sample seal

Customer Name XIAOMI

Product Model RD23

Customer P/N L530100074721

Specifications 2/5G, 5dBi, White housing, 2G:1.37Gray, cable, 130mm, 5G:1.37Black, cable, 200mm

Southstar P/N 3.N102.1053

Production date 2024-03-15

Revision 1.0

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

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Antenna Specification

A. Electrical Characteristics	
Frequency	2400MHz~2500 MHz/5150MHz~5850 MHz
VSWR	≤ 2
Efficiency	$> 60\%$
Impedance	50 Ohm
Polarization	Linear
Gain	2400MHz@5.24dBi; 5850 MHz@5.15dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	2G: 1.37 Gray 5G: 1.37 Black
Connector Type	soldering
C. Environmental	
Operation Temperature	- 30 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 70 °C



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Test Equipment & Conditions

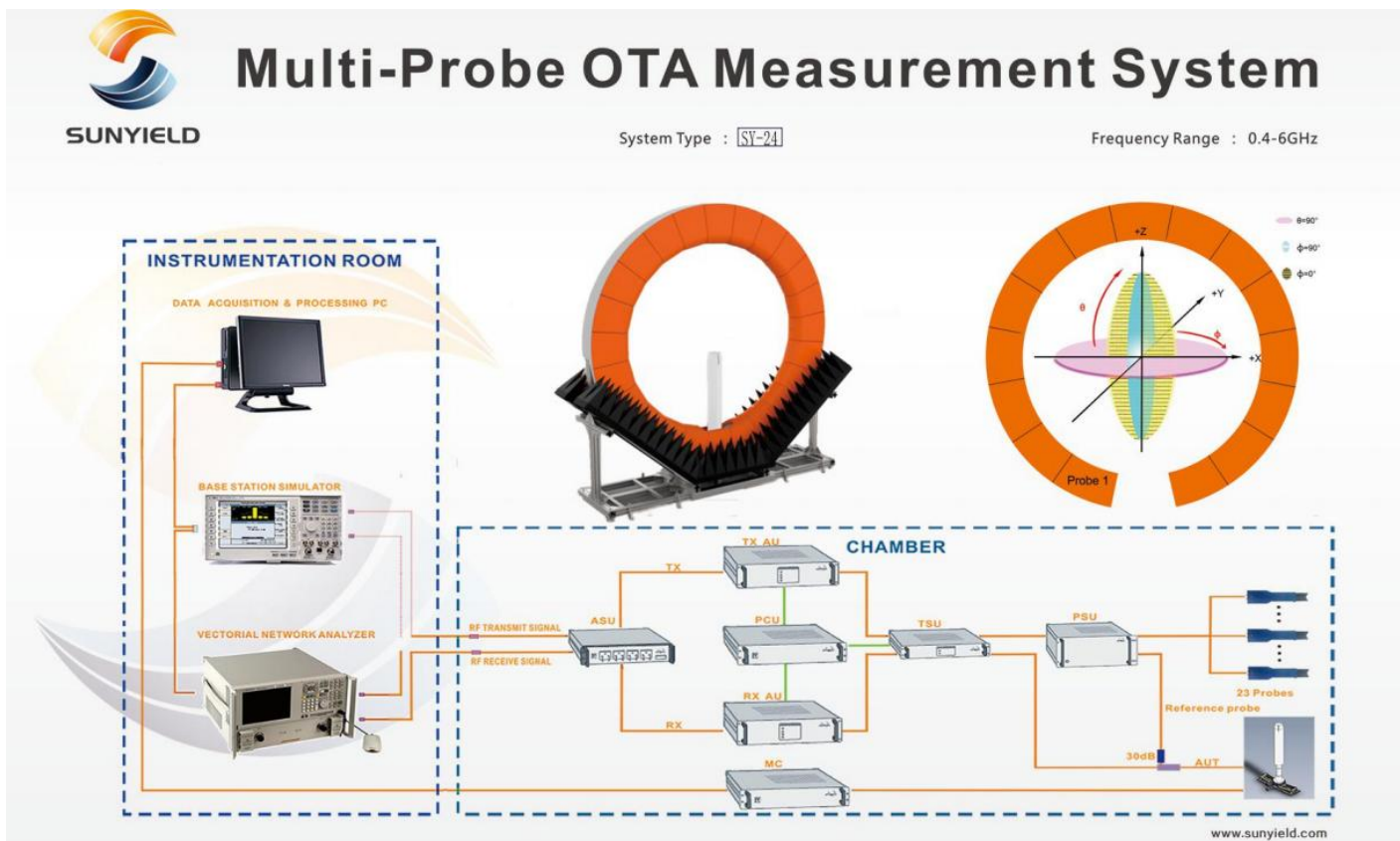
1. NetWork Analyzers:

Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:





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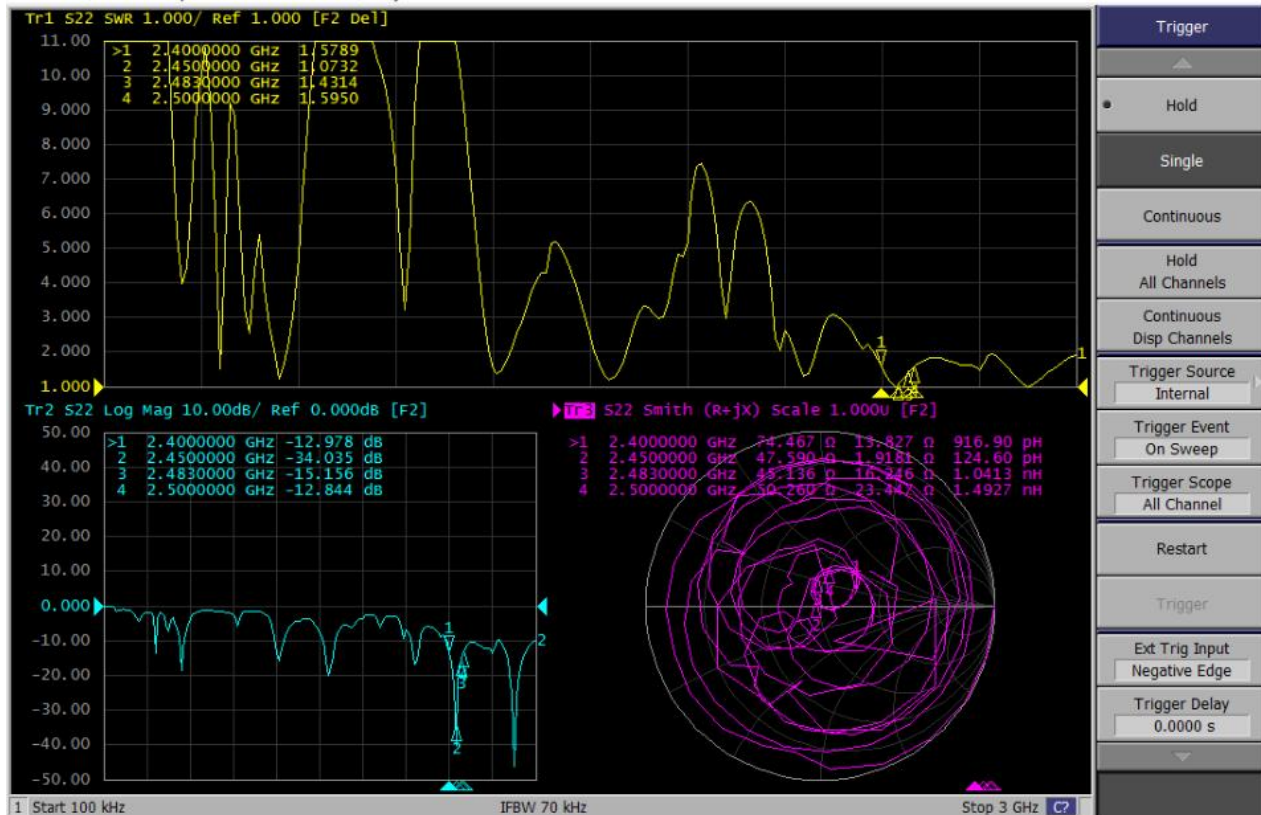
Antenna Impedance:

S11

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

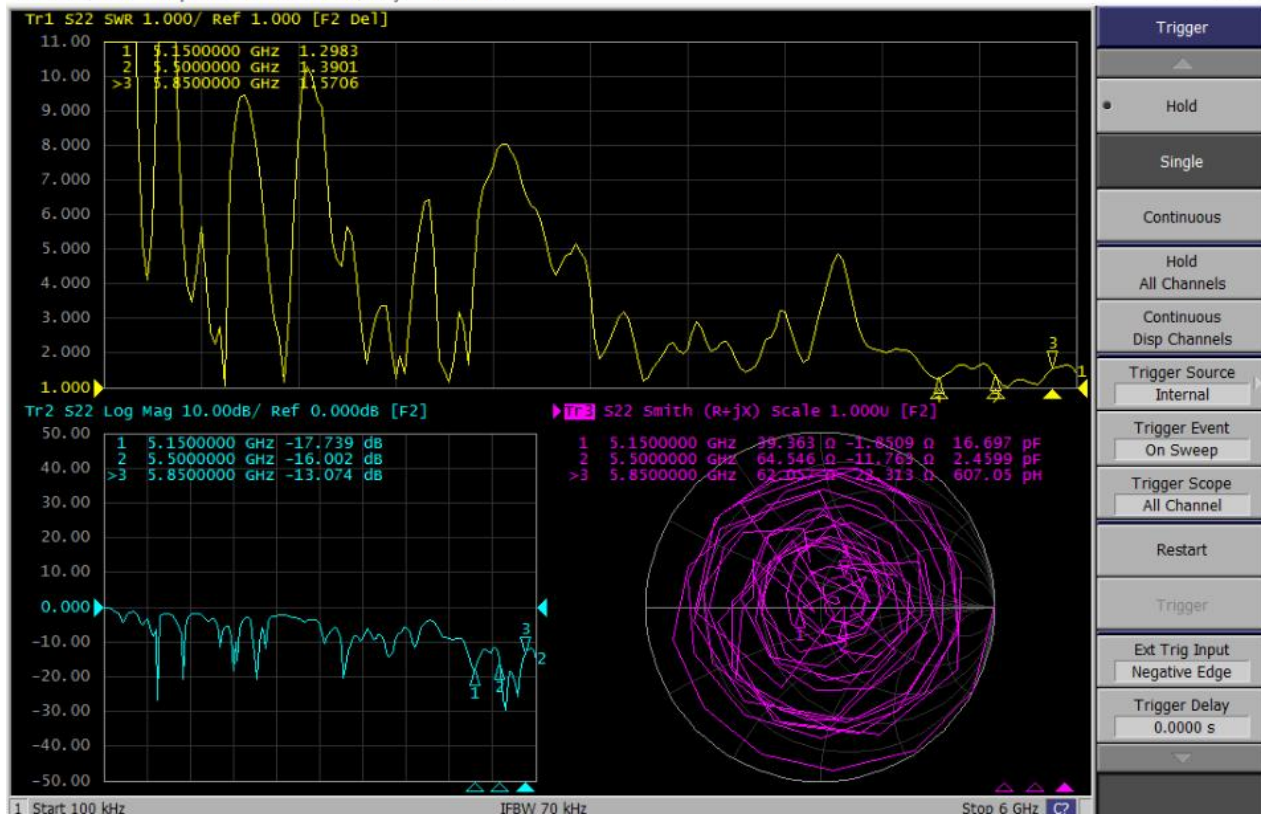
Resize



E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize





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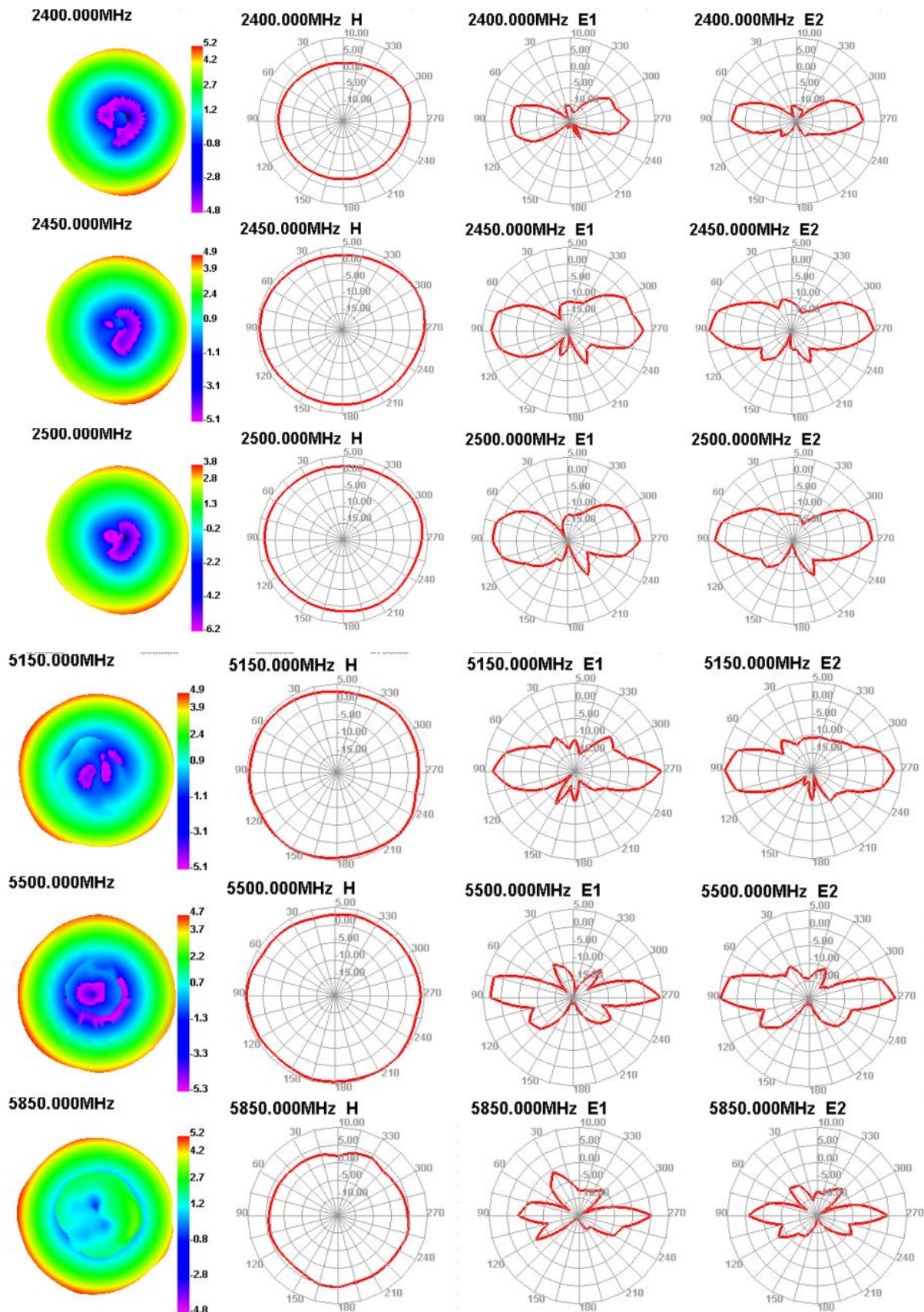
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Efficiency & Gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	69.35	5.24
2410	68.2	5.15
2420	67.87	5.03
2430	66.66	4.87
2440	66.13	4.79
2450	66.59	4.86
2460	68	4.96
2470	66.97	4.86
2480	66.11	4.65
2490	67.73	3.98
2500	60.37	3.78

Freq (MHz)	Effi (%)	Gain (dBi)
5150	61.27	4.95
5200	63.46	4.42
5250	63.09	4.13
5300	62.2	3.71
5350	58.85	3.15
5400	58.09	3.51
5450	58.55	4.05
5500	62.39	4.7
5550	63.83	5.01
5600	63.61	5.01
5650	63.37	4.89
5700	63.68	5.07
5750	62.65	4.92
5800	63.19	4.86
5850	61	5.19

Antenna 3D & 2D pattern:



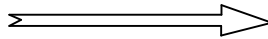


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antenna assembly picture:

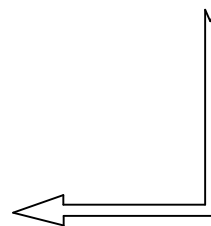
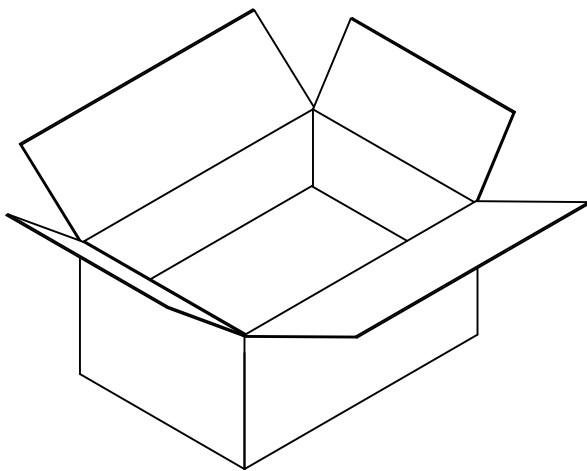
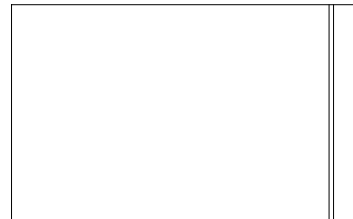


Name : MD03 Antenna	Version: A
	Customer: XIAOMI

1: The product



二: 30PCS/per PE Bag。



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

