



APPROVAL SHEET

Customer Name SHENZHEN XIAOMI LLET COMMUNICATION Co.,LTD

Product Model NR01

Customer P/N 1710805000239A

Specifications PCB antenna, 5G, 5dBi, 1.37 black RFcable L=205mm

Southstar P/N 3. N101. 1511

Production date 2024. 10. 24

Revision V1.0

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

Manufacturers: DONGGUAN SOUTH STAR TECHNOLOGY CO.,LTD

Production address: 3, Chigang Nanfang 1st Road, Humen Town, Dongguan City,
Guangdong Province

Tel: 0755-27474071 0769-88086190

Http: //www.southstar-tech.com

History

Version	Date	Change Description	Note
V1.0	2024.10.24	Initial version	

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The basic parameters:

A. Electrical Characteristics	
Frequency	5150MHz ~ 5850MHz
VSWR	<2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Peak Gain	6.11dBi@5500MHz
Note:	
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Cable Type	Ø1.37mm black
Connector Type	IPEX
C. Environmental	
Operation Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C

Test Equipment & Conditions:**1. NetWork Analyzers:**

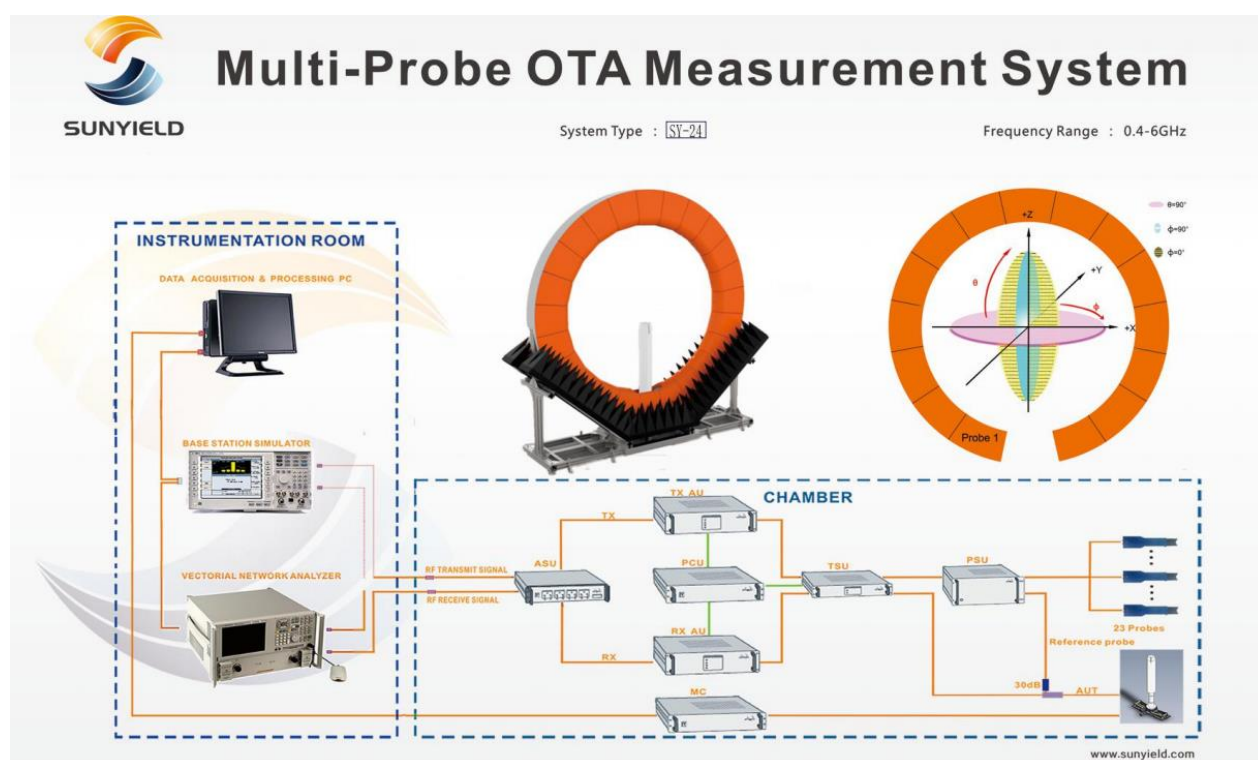
Keysight E5071C

2. Comprehensive tester:

CMW500 、MT8000A、MT8862A

3. 3D Chamber Test System**4. Calibration time**

2024. 03. 26~2025. 03. 25

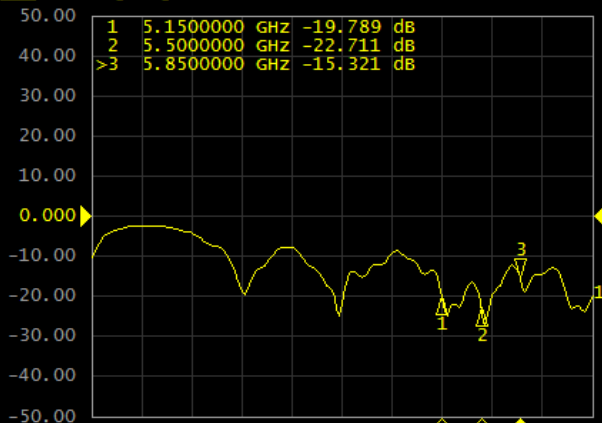


Antenna Impedance: S11

E5071C Network Analyzer

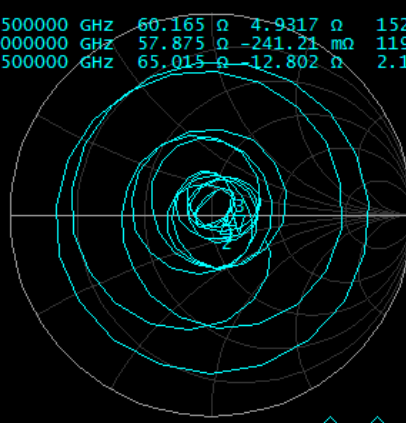
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2 Del]



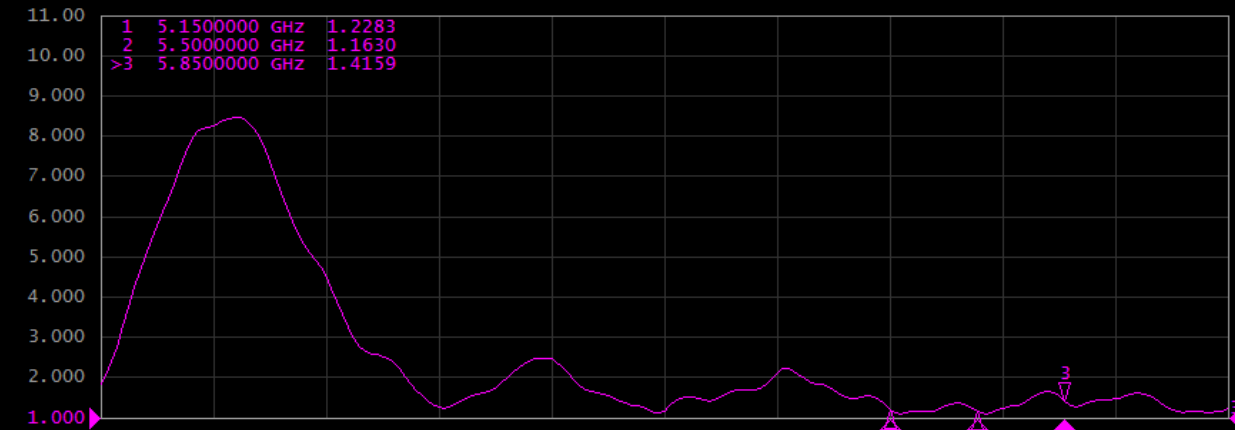
Tr2 S11 Smith (R+jX) Scale 1.000U [F2]

1	5.1500000	GHz	60.165	Ω	4.9317	Ω	152.41	pH
2	5.5000000	GHz	57.875	Ω	-241.21	m Ω	119.97	pF
3	5.8500000	GHz	65.015	Ω	-12.802	Ω	2.1252	pF



Tr3 S11 SWR 1.000/ Ref 1.000 [F2]

1	5.1500000	GHz	1.2283
2	5.5000000	GHz	1.1630
3	5.8500000	GHz	1.4159



3 Start 2 GHz

IFBW 70 kHz

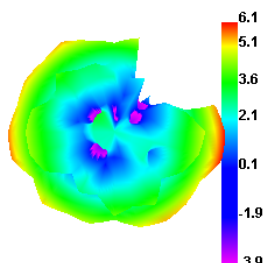
Stop 6.5 GHz C?

Efficiency & Gain:

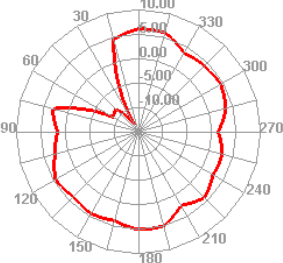
Freq (MHz)	Effi (%)	Gain (dBi)
5150	70.13	6.06
5200	69.62	5.8
5250	70.93	6.13
5300	67.47	5.89
5350	63.29	5.65
5400	65.67	5.94
5450	65.35	5.97
5500	64.82	6.11
5550	64.54	6.31
5600	67.71	6.53
5650	66.47	7.07
5700	65.71	7.14
5750	65.36	7.29
5800	64.58	7.55
5850	64.66	7.62

Antenna 3D & 2D pattern:

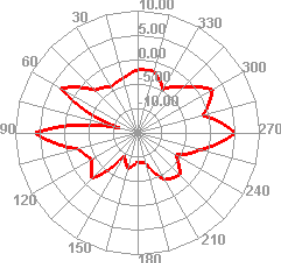
5150.000MHz



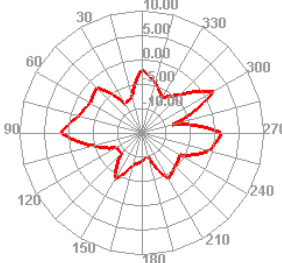
5150.000MHz H



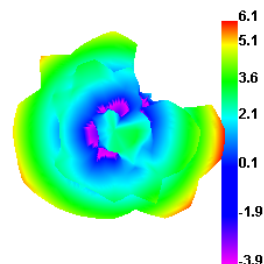
5150.000MHz E1



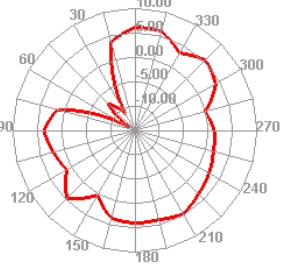
5150.000MHz E2



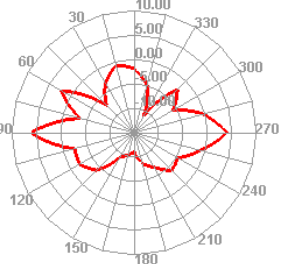
5500.000MHz



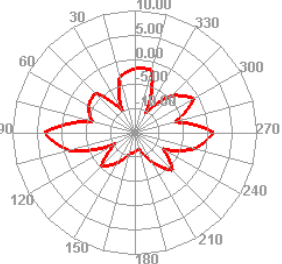
5500.000MHz H



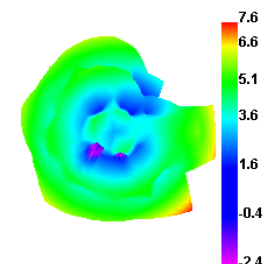
5500.000MHz E1



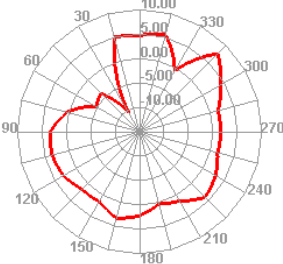
5500.000MHz E2



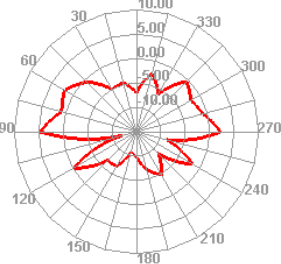
5850.000MHz



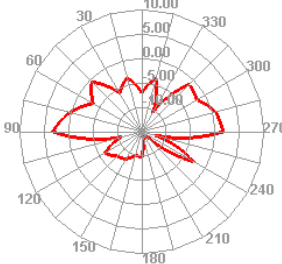
5850.000MHz H



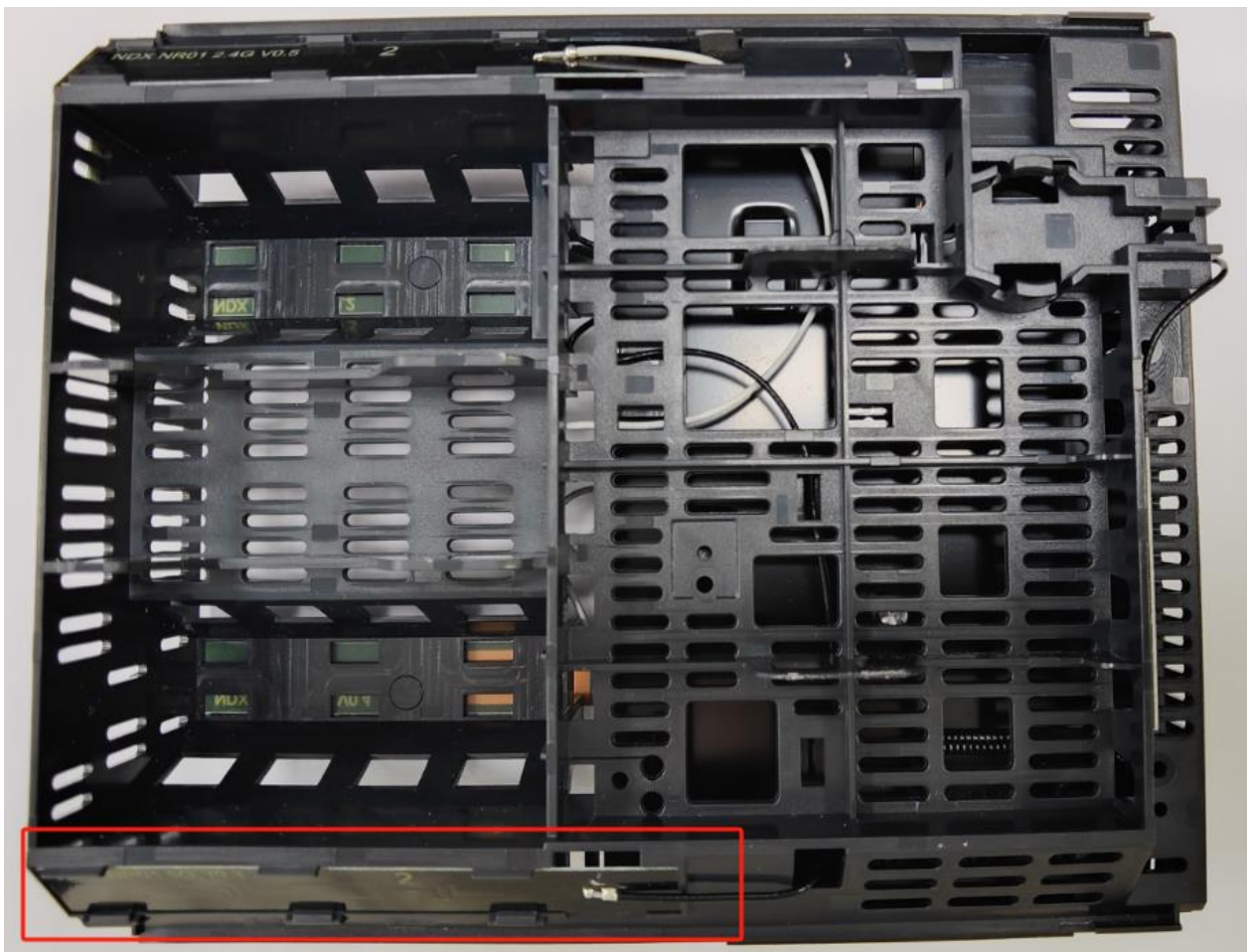
5850.000MHz E1



5850.000MHz E2



Antenna assembly picture:



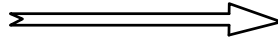


Date: 2024-10-24

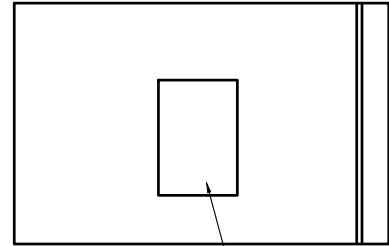
page: 1 of 1

Name : NR01 Antenna	Version: A
	Customer:

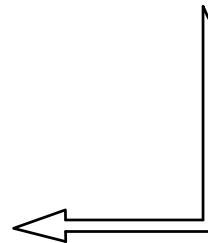
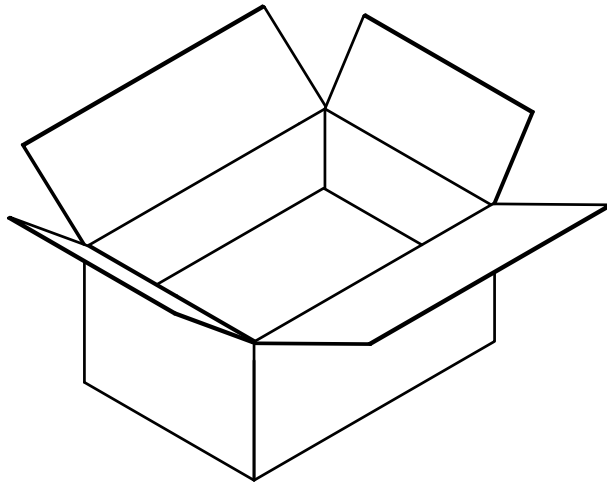
1. The Product



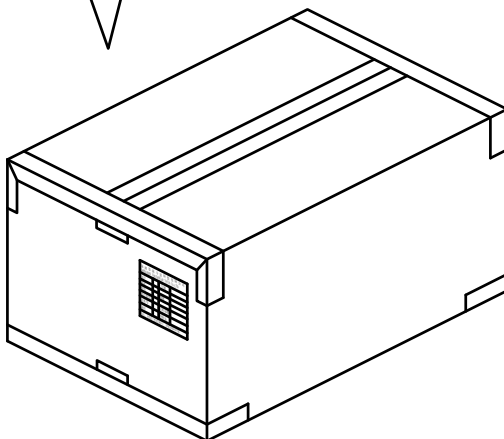
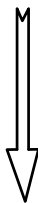
2. 100PCS/per Bag



Label



3. Packing (subject to actual packing) .



DESIGNED By: Kenny

APPROVED By: ZH