

SPECIFICATION

for

7dBi glue stick 2.4/5.8G WIFI antenna

Customer No.

Product No.

TX-2.4~5.8G rubber stick antenna

Author: XiaofengZeng Review: Liming

Release Date: 2023.09.13

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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of Tianxing Communications

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		

2. General

2.1 Scope of application

2.4G/5.8G WIFI Antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	2.4G/5.8G WIFI Antenna
2	Operating Frequency Band	2400-2500MHz 和 5100-5900MHz
3	VSWR	≤2.0
4	Gain	2.05dBi
5	Impedance	50 Ω
6	Antenna Type	Glue stick antenna
7	Antenna composition	Glue stick
8	Entity Picture	

4. Specification Details

4.1 Mechanical Properties

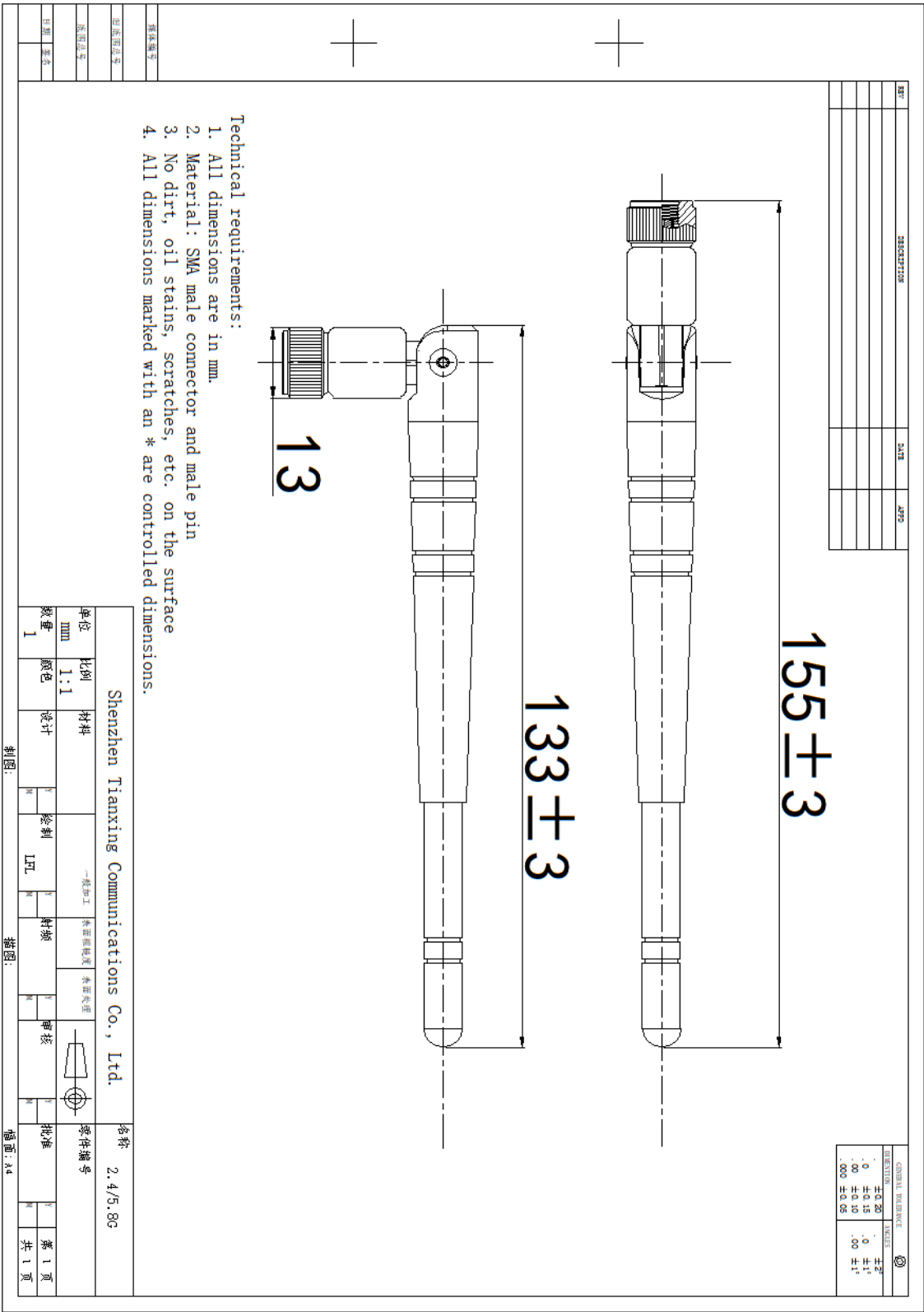
4.11 Product Composition:

4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:



4.2 Electric Performance

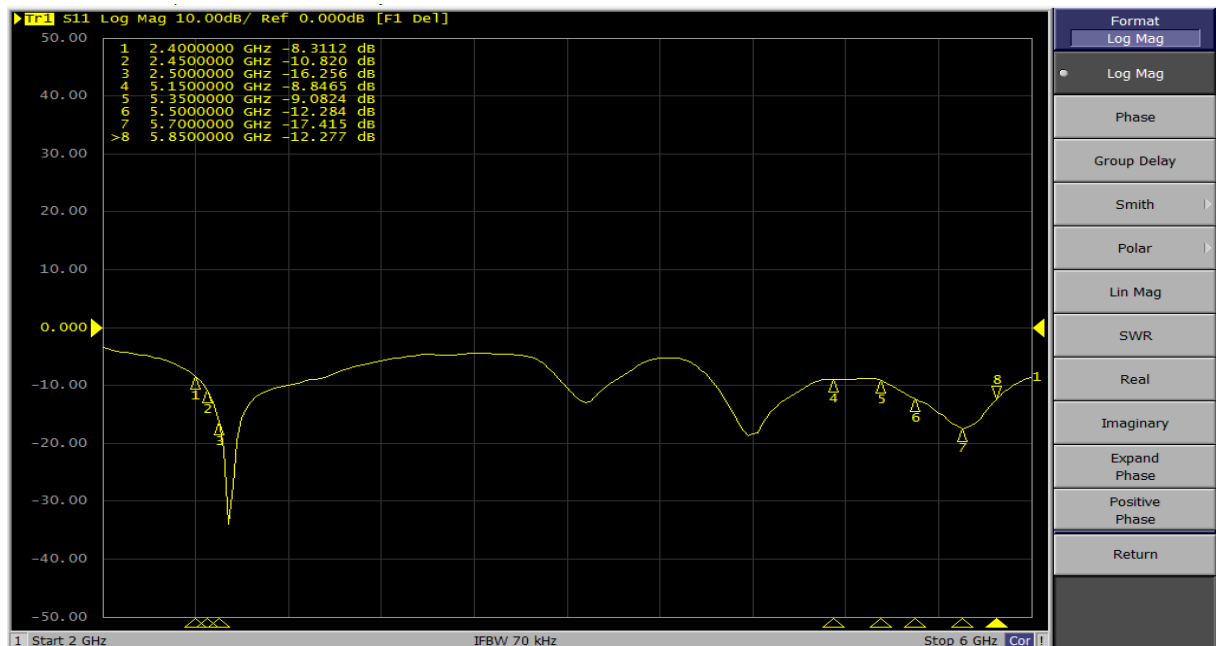
4.21 Test condition

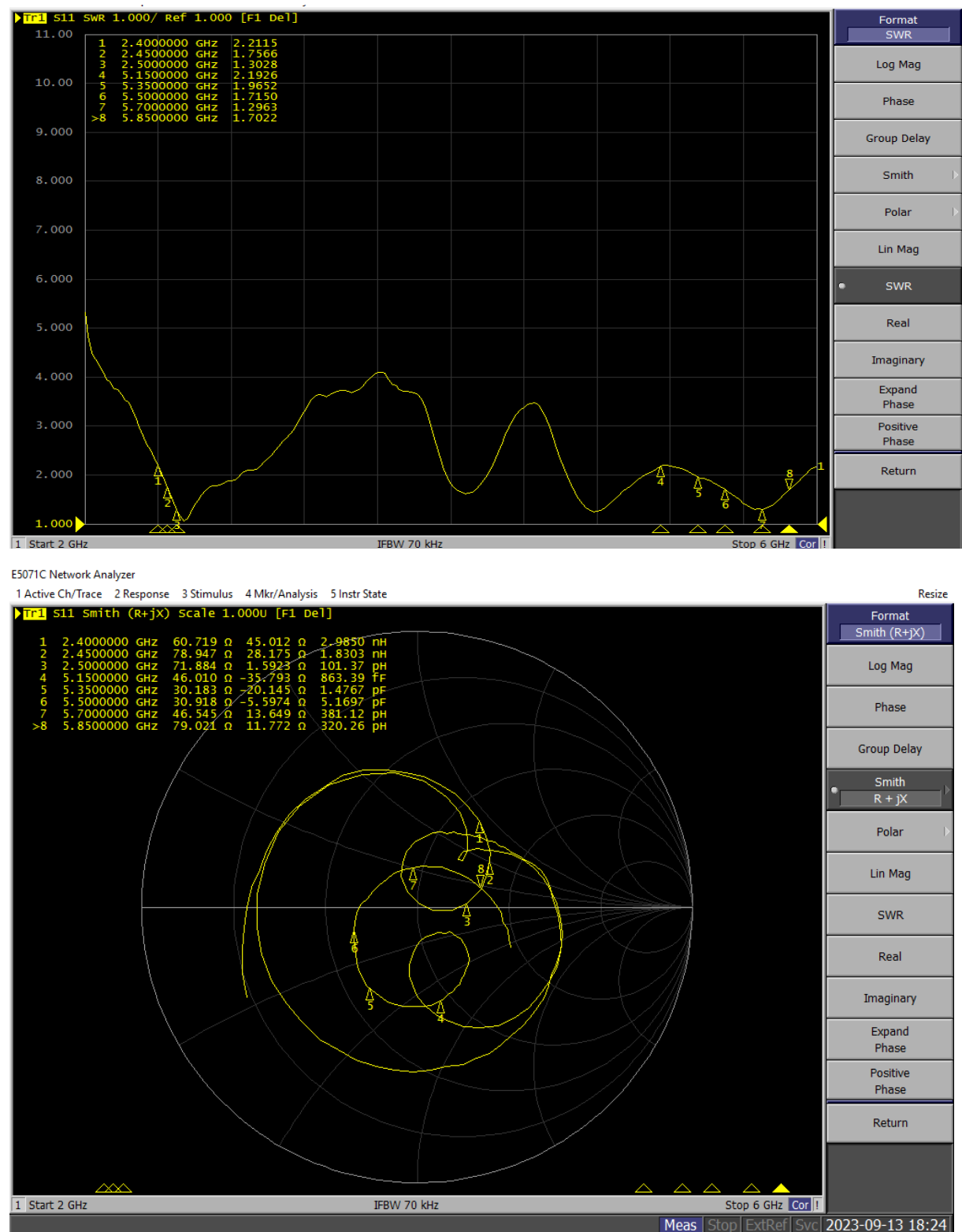
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	AnechiorChamber:Multi-probe
Atmospher: 750mmkg±30mmkg	Microwave

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500	5150	5350	5500	5700	5850
Return loss	-8.31	-10.82	-16.25	-8.81	-9.08	-12.28	-17.41	-12.27
VSWR	2.21	1.75	1.30	2.19	1.96	1.71	1.29	1.70

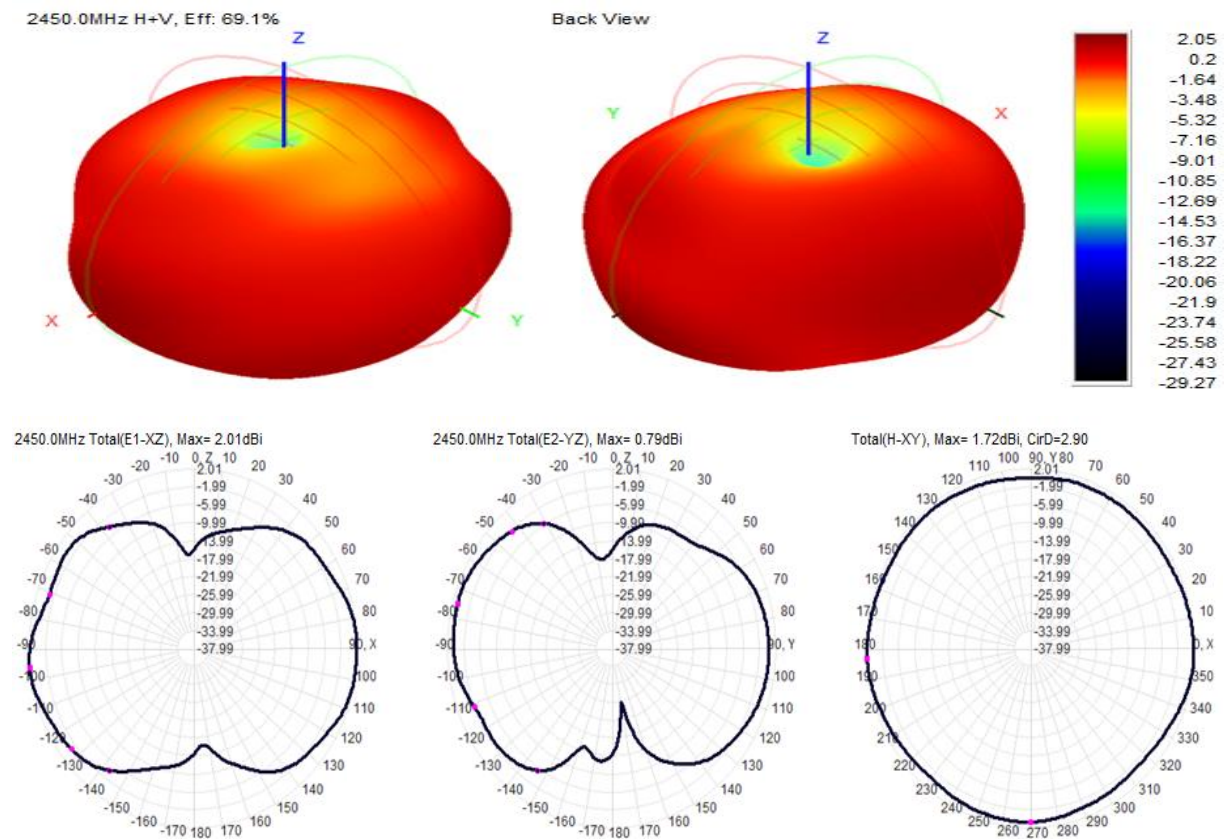




4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Marker (MHz)	2400	2450	2500	5150	5350	5500	5700	5850
Gain (dBi)	1.56	2.05	1.50	1.08	1.50	1.45	1.84	1.23
Efficiency (%)	64.64	69.13	65.92	55.45	56.16	54.02	62.07	55.97

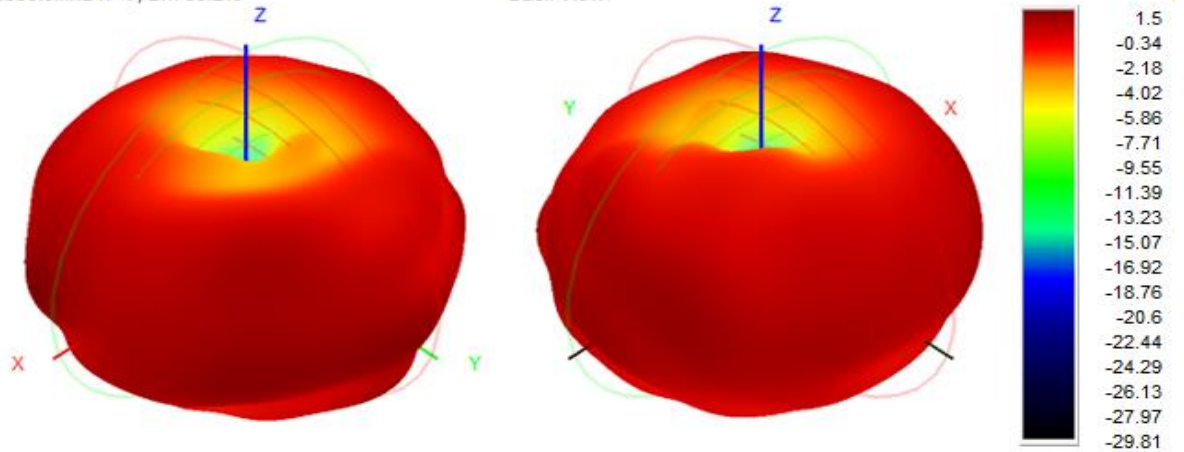
2450 MHz:



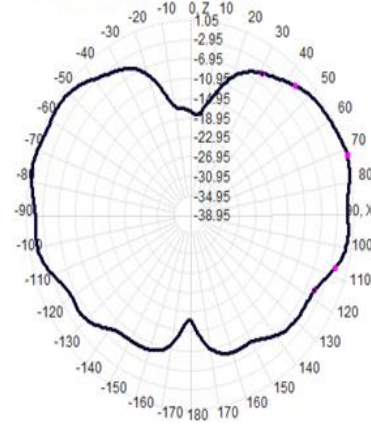
5350 MHz:

5350.0MHz H+V, Eff: 56.2%

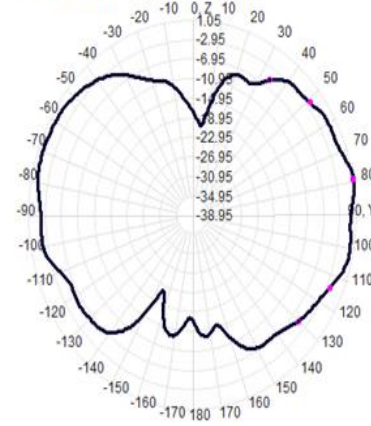
Back View



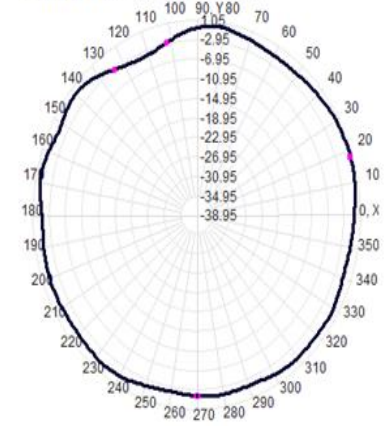
5350.0MHz Total(E1-XZ), Max= 1.05dBi



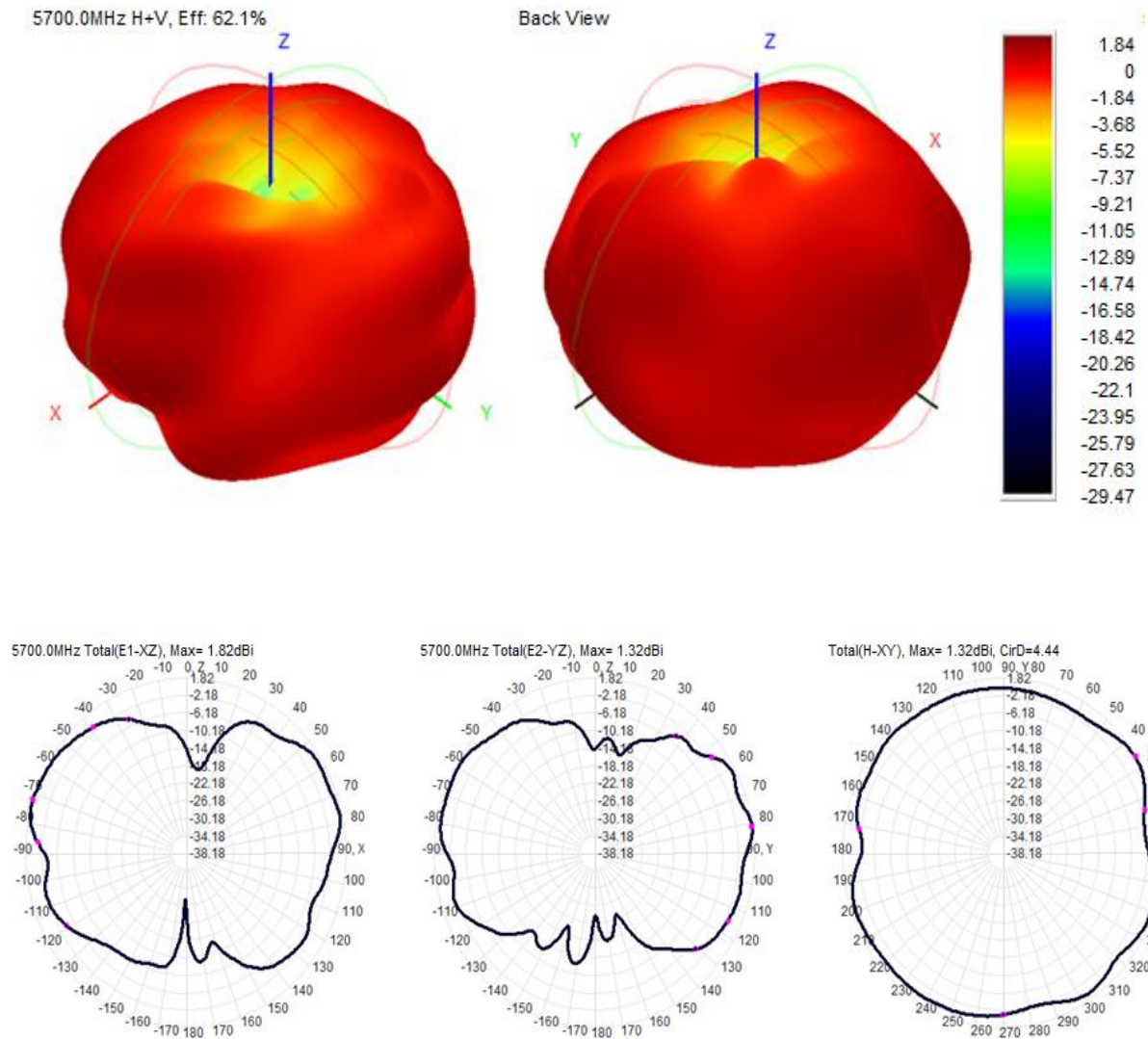
5350.0MHz Total(E2-YZ), Max= 0.80dBi



Total(H-X-Y), Max= 0.21dBi, CirD=4.32



5700 MHz:



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2023/09/13
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2023/09/13	1.00	New Project