



Antenna specification

Product material number: Y0RPV0CA0BA

Version: 1.0

Date: June 13th, 2024

Status: temporary version

Product name: WIFI

sucker antenna main

features:

Frequency range: 2400-2500 MHz

Size: $\varnothing$ 29.6 * 221mm

Efficiency: up to 16.4% (MP)

Meet RoHS standards

catalogue

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1 specification parameters

Test status: on a 300 × 300 mm metal plate & free space status.

1.1. behaviour of electricity

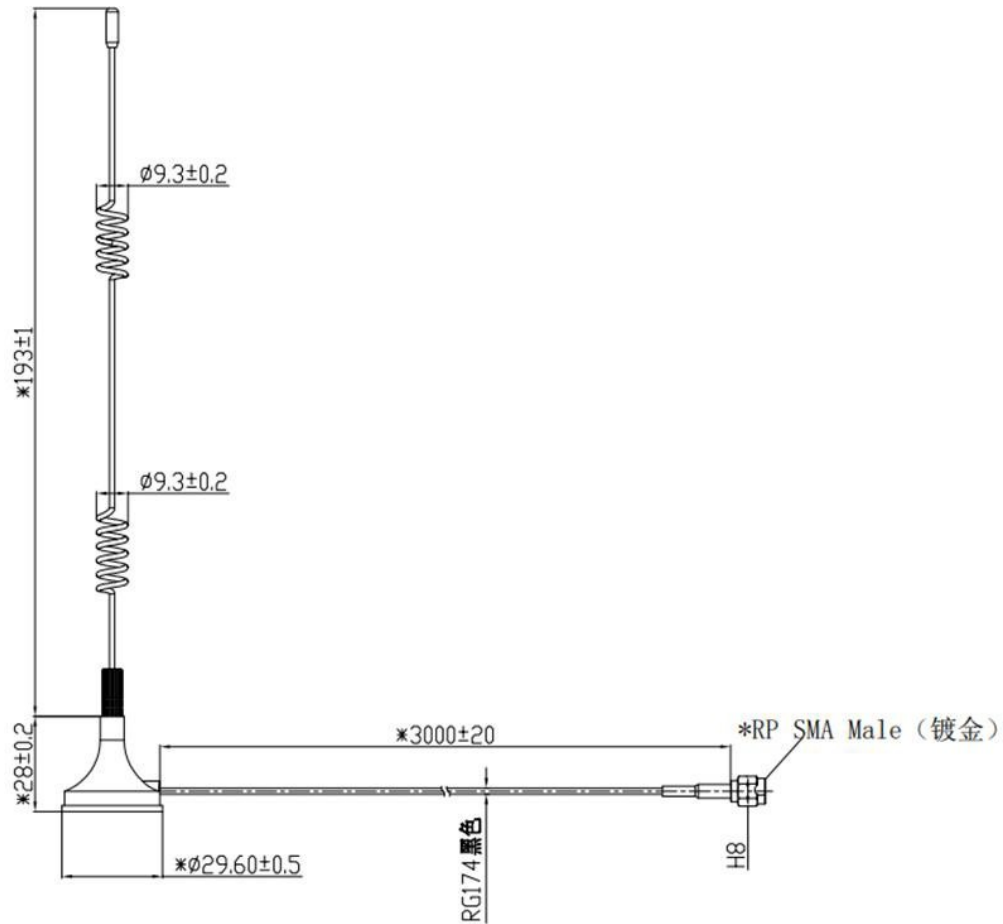
Electrical specification		
frequency range	2400–2500 MHz	
impedance	50 Ω	
Polarization mode	Linear	
Radiation field pattern	Omni-directional	
voltage standing wave ratio	MP	≤ 1.7
	FS	≤ 1.7
Peak gain	MP	≤ -2.5 dBi
	FS	≤ -2.4 dBi

- FS: free state
- MP: On a 300 × 300 mm metal plate.

1.2. Mechanical and environmental characteristics

machinery	
Antenna size	Φ 29.6× 221 mm
Shell material & color	Carbon steel & black
Cable Type & Color & Length	RG174 & black & 3000mm
Connector type	RP SMA male head
weight	About 46.8 g
Installation type	Magnetic attraction
environment	
Working temperature	-20 °C to +65 °C
storage temperature	-20 °C to +65 °C
Meet environmental protection standards	RoHS

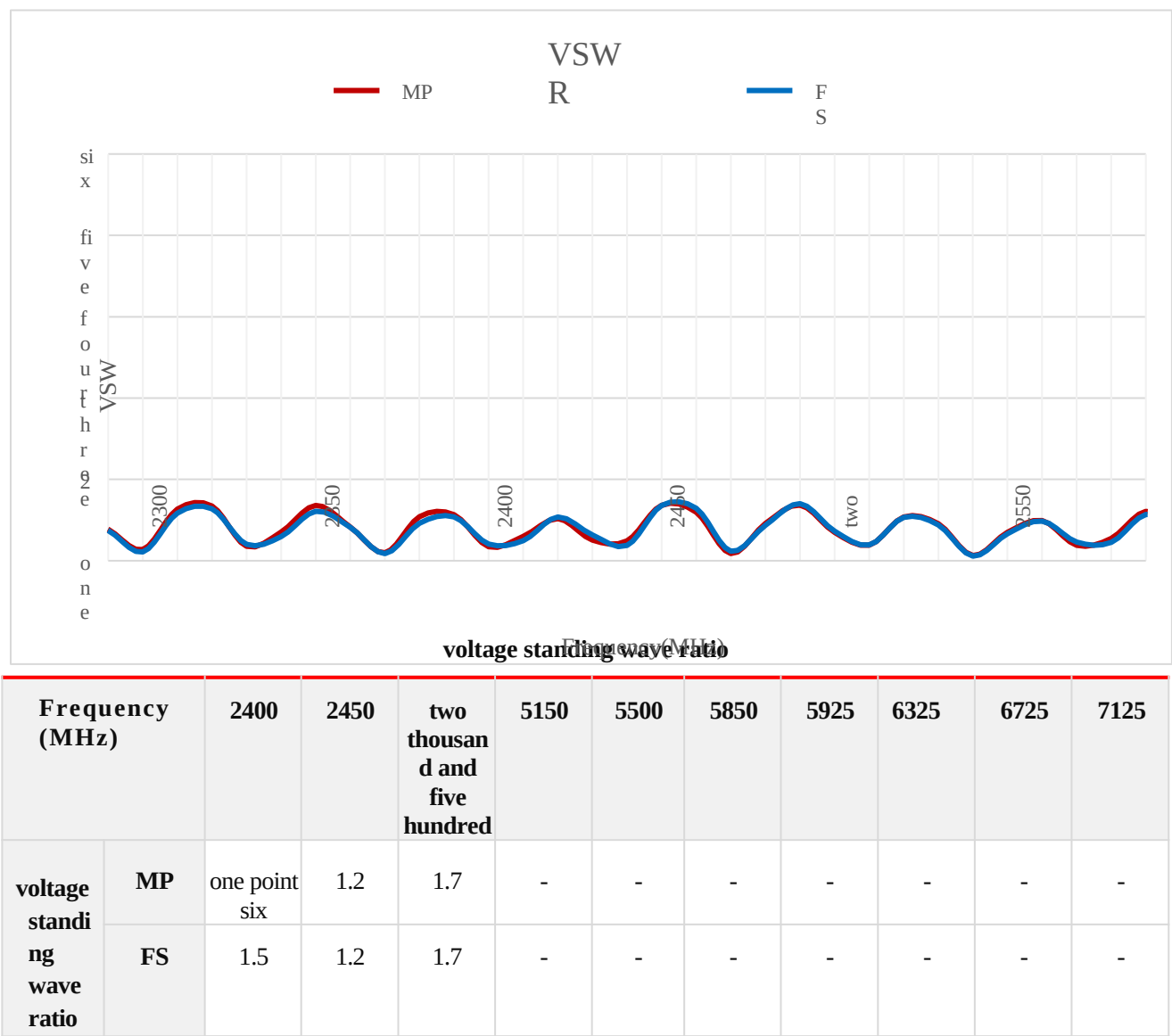
2 drawings



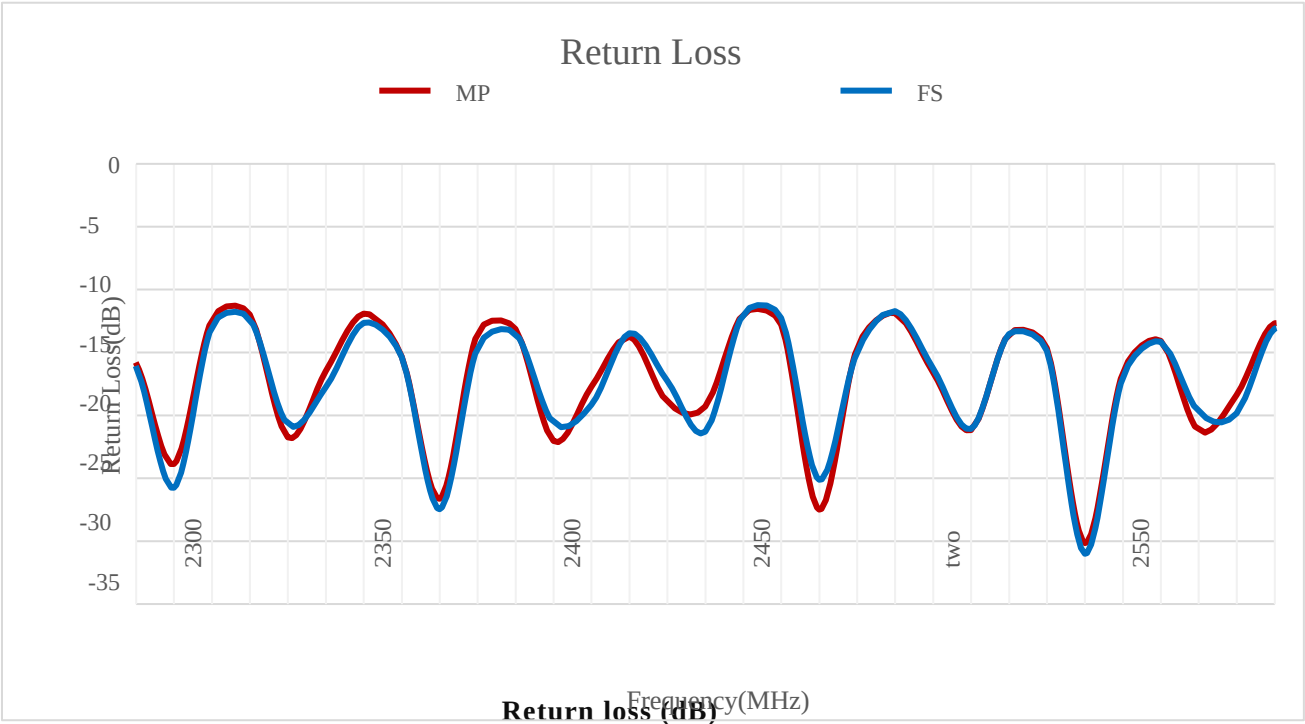
3

Detailed performance parameters

3.1.1. voltage standing wave ratio



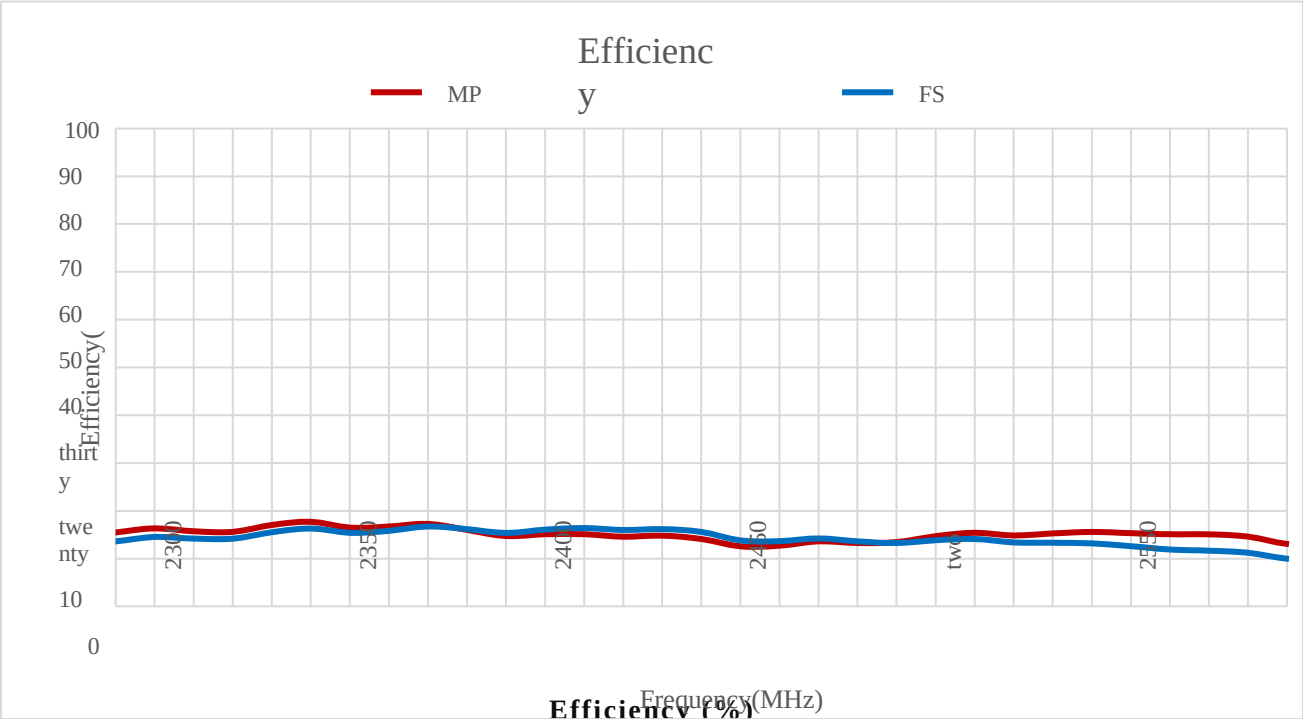
3.1.2. return loss



Frequency (MHz)		2400	2450	two thousand and five hundred	5150	5500	5850	5925	6325	6725	7125
return loss (dB)	MP	-13.1	-19.3	-11.9	-	-	-	-	-	-	-
	FS	-13.4	-21.3	-11.7	-	-	-	-	-	-	-

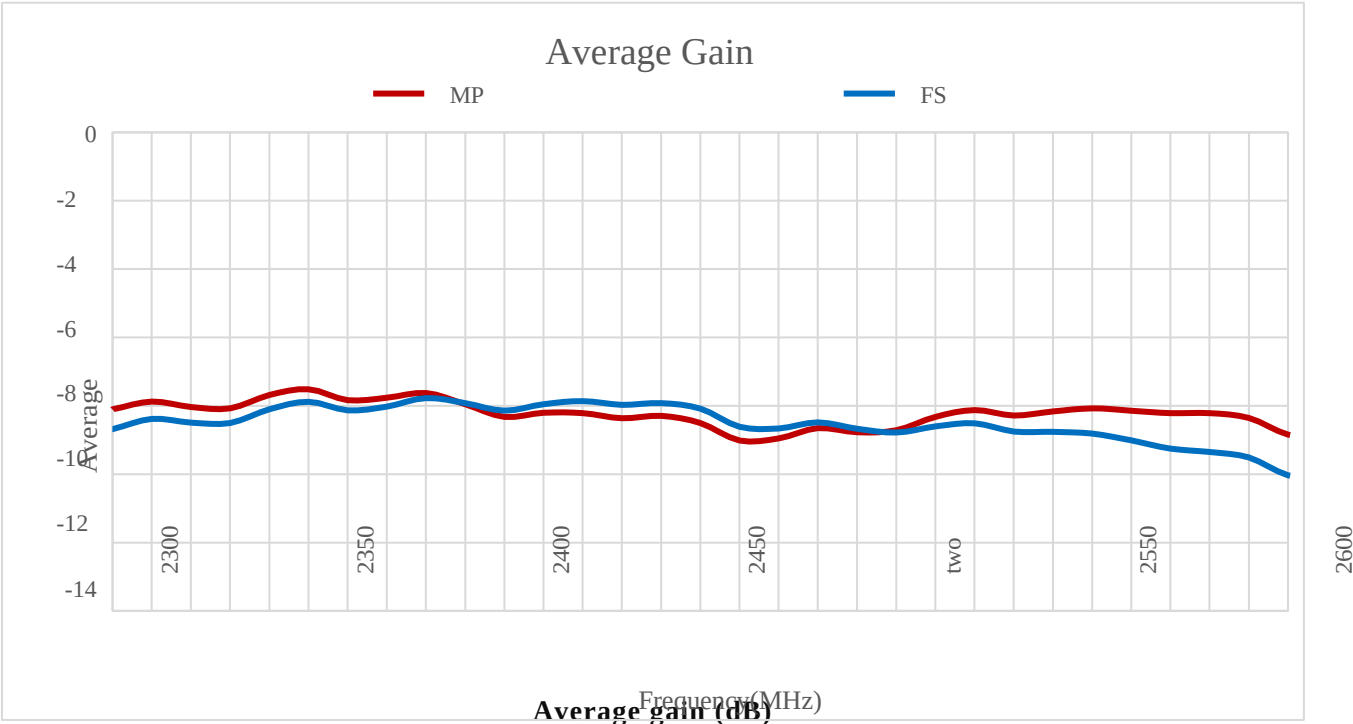
3.2. Radiation performance test

3.2.1. efficiency



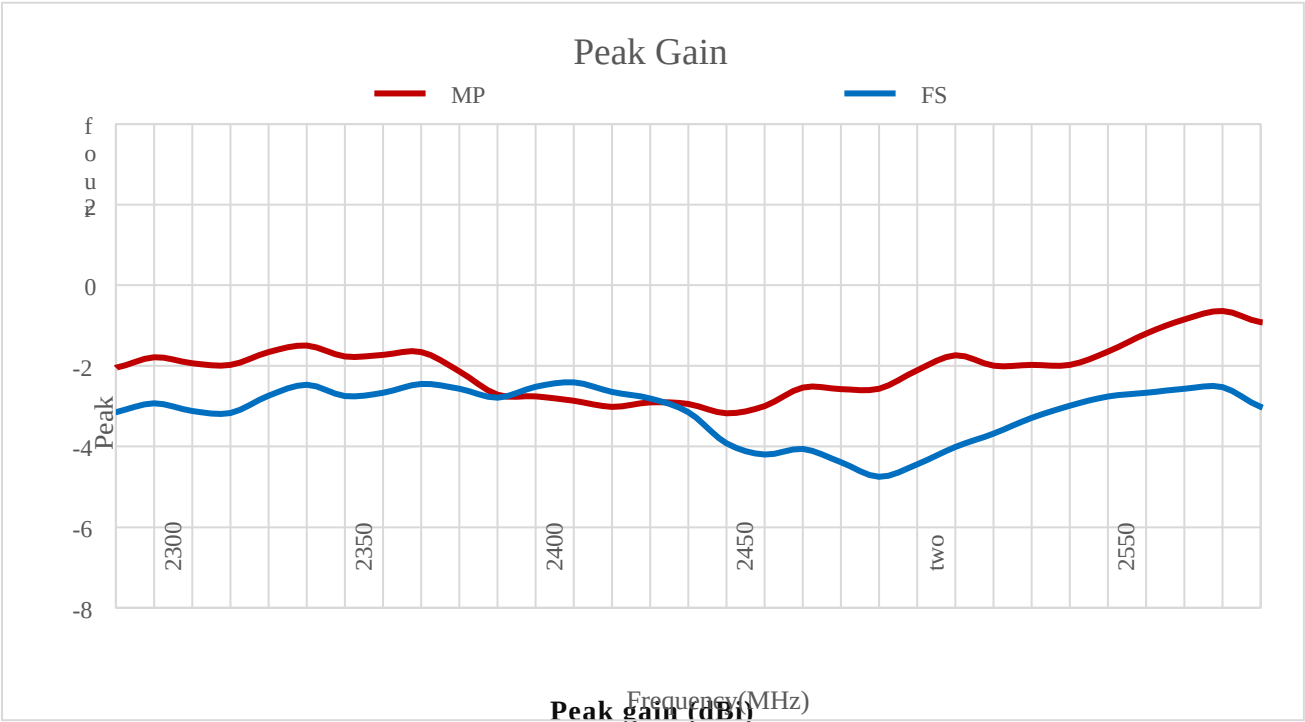
Frequency (MHz)		2400	2450	two thousand and five hundred	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	MP	14.7	14.1	13.5	-	-	-	-	-	-	-
	FS	15.3	15.6	13.2	-	-	-	-	-	-	-

3.2.2. Average gain



Frequency (MHz)		2400	2450	two thousand and five hundred	5150	5500	5850	5925	6325	6725	7125
Average gain (dB)	MP	-8.3	-8.5	-8.7	-	-	-	-	-	-	-
	FS	-8.1	-8.1	-8.8	-	-	-	-	-	-	-

3.2.3. Peak gain

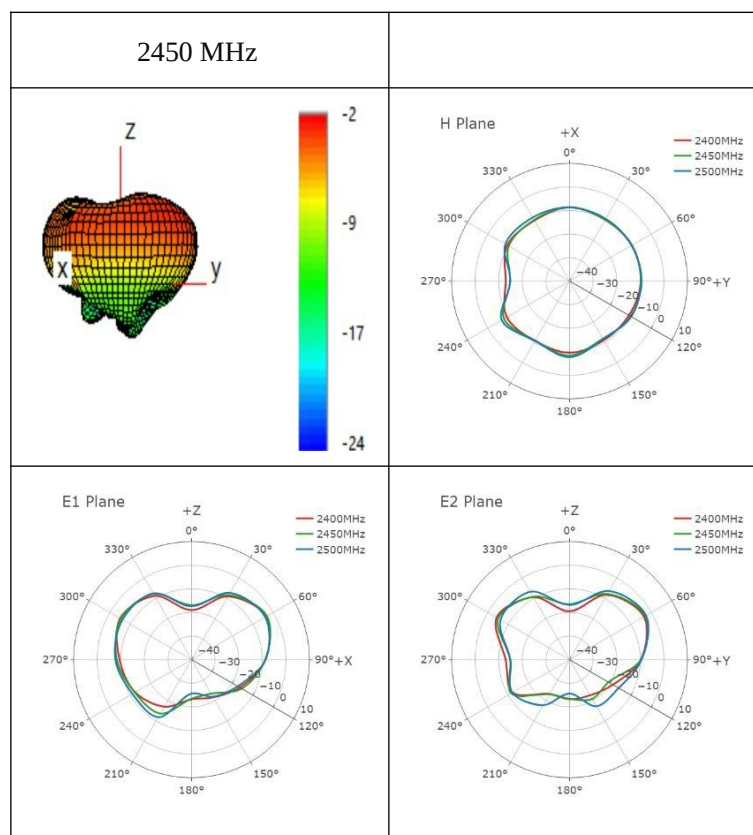
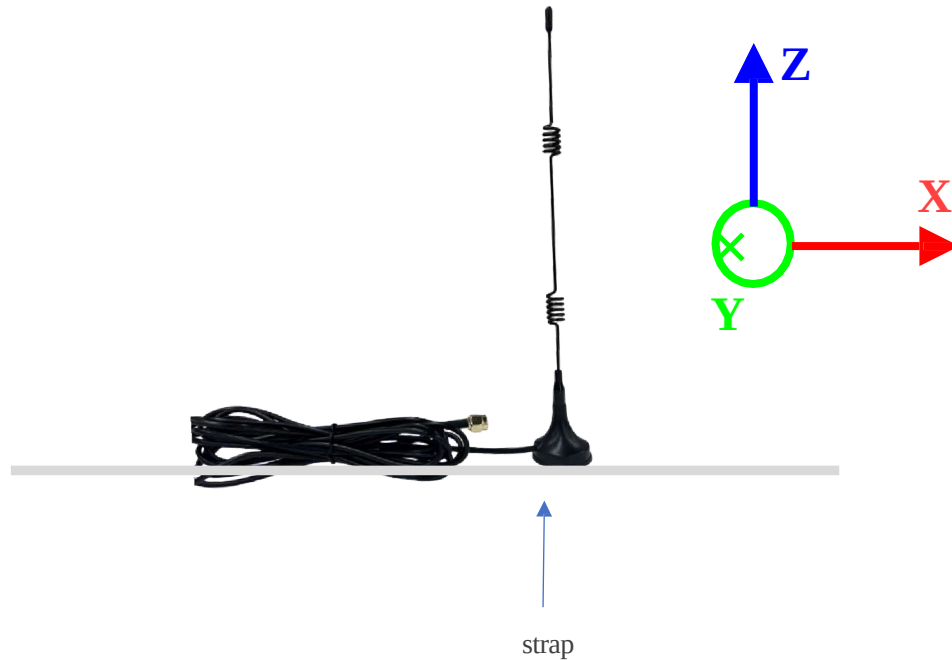


Frequency (MHz)		2400	2450	two thousand and five hundred	5150	5500	5850	5925	6325	6725	7125
Peak gain (dBi)	MP	-2.7	-3.0	-2.6	-	-	-	-	-	-	-
	FS	-2.8	-3.2	-4.8	-	-	-	-	-	-	-

3.2.4. 3 d-2 d radiation pattern

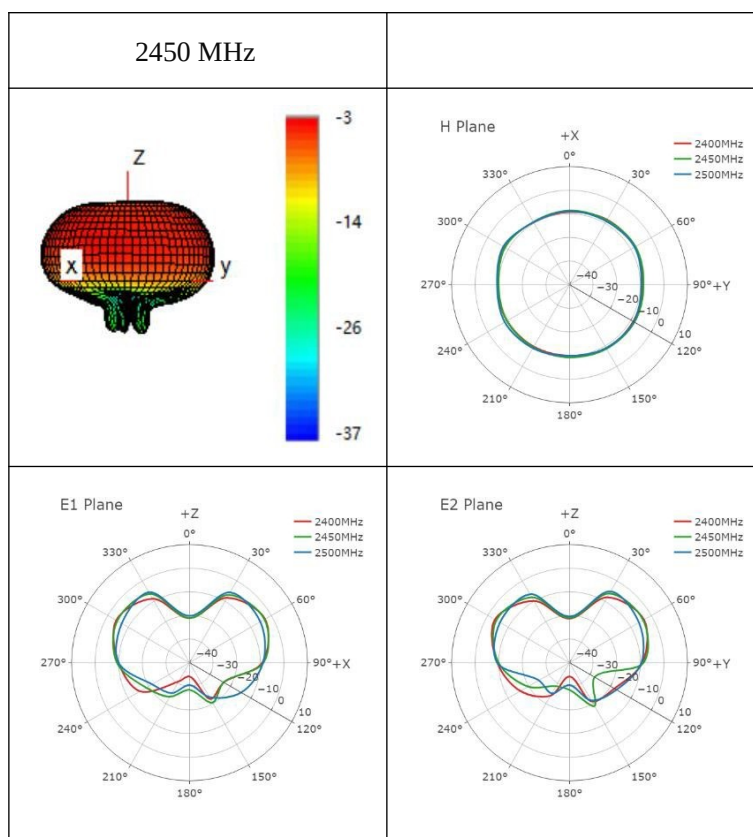
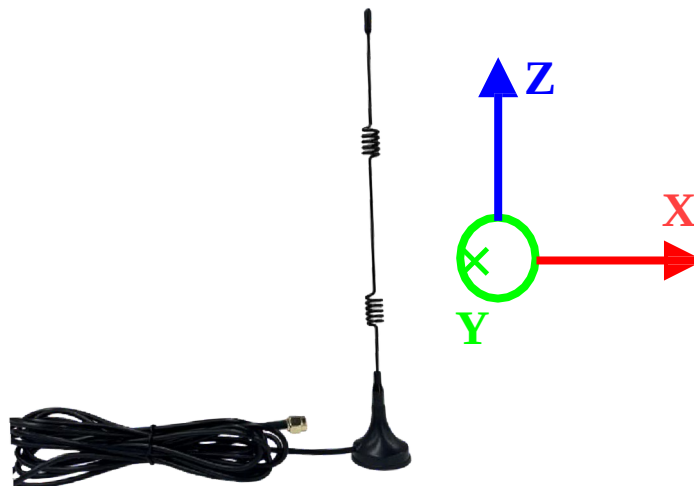
3.2.4.1. Test status: on a 300×300 mm metal plate.

- Testing laboratory: GL-G-1

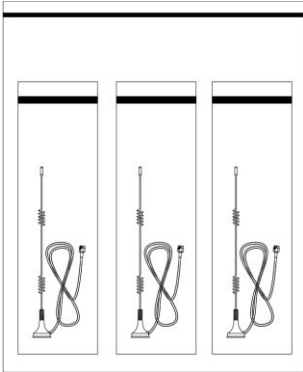


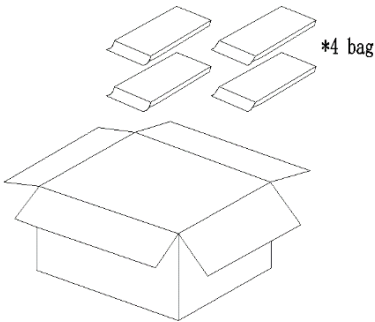
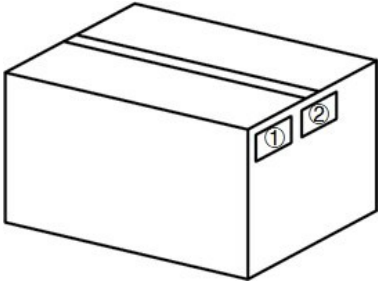
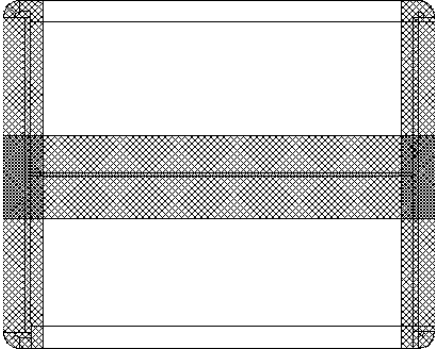
3.2.4.2. Test state: free space state

- Testing laboratory: GL-G-1



4 packaging

Step	Packaging picture / 2D picture	Description
one		One product in a small bag
2		A big bag with 50 small bags and a big bag with 50 products.

three	 *4 bag	A box contains 4 large bags. Estimated quantity of 200 products in a box Products that are not enough will be packed in suitable cartons. The carton size: 370 x 370 x 295 mm.
four		Label position ① Carton label ② Quality label
five		Carton sealing I-shaped box sealing
six	The above initial packaging methods are for reference only, and the final actual packaging method is subject to the actual shipping packaging.	

contact us

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