



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
ADD	5/F, Building A2, Jinxiangfu Industrial Park, Jiuwei, Xixiang, Bao'an, Shenzhen, China
Antenna type	DIPOLE antenna
Product Description	304 nickel plating
Product No	GP2204A-BXG-A
Antenna frequency band	2400MHz-2500MHz

Purpose

This report is to measure the performance of antenna for All test date are showed as below.

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2.1 VSWR

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1. Product Overview

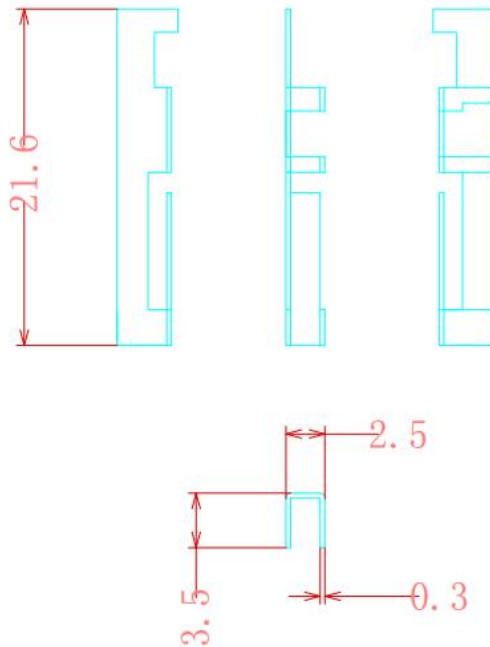
1.1 Antenna schematic diagram



1. Product Overview

1.2 Antenna size diagram

Note: All dimensions are in millimeters (mm).



Material: SUS304
nickel-plated; T=0.3

2. Test Result

2.1 Bluetooth antenna VSWR



Frequen cy (MHz)	2400	2450	2500
VSWR	2.06	1.43	1.44

2. Test Result

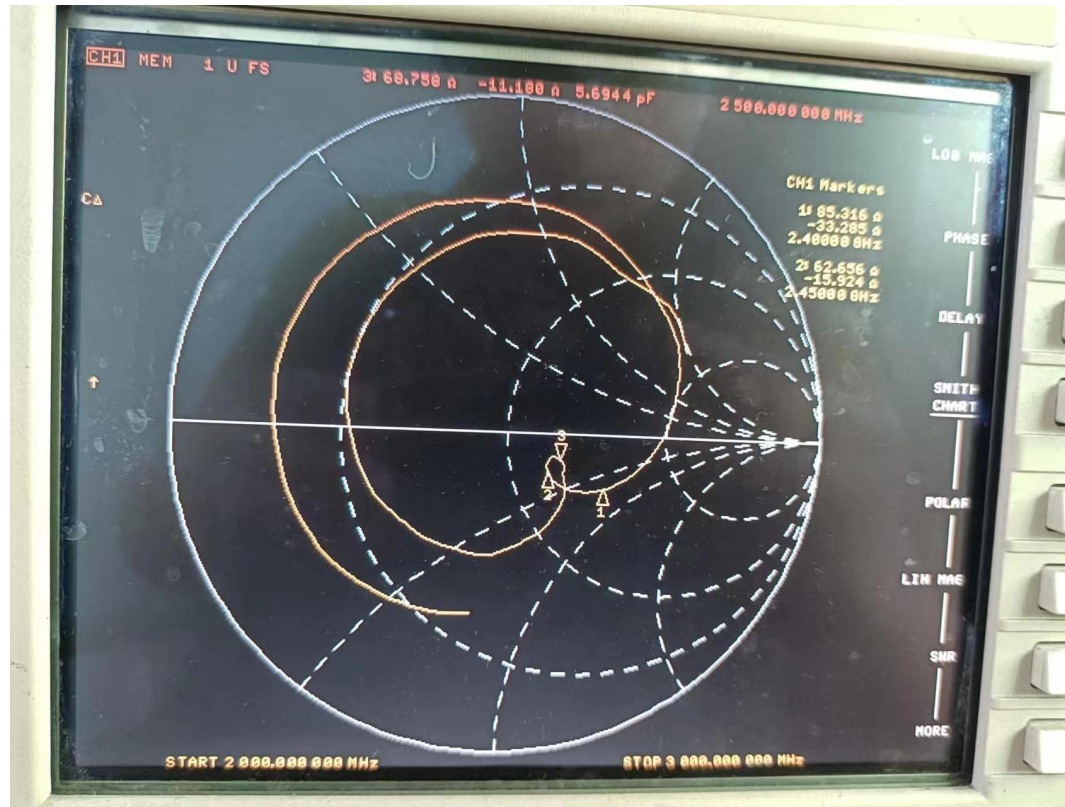
2.2 Bluetooth antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-9.16	-14.95	-14.74

2. Test Result

2.3 Bluetooth antenna Smith Chart



Frequen cy (MHz)	2400	2450	2500
	85.31	62.65	68.75

2. Test Result

2.4 Bluetooth antenna GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	54.88	2.78
2410	52.12	2.62
2420	52.34	2.34
2430	54.02	2.55
2440	53.12	2.65
2450	52.24	2.43
2460	49.15	2.37
2470	48.91	2.26
2480	53.23	2.54
2490	52.46	2.45
2500	45.99	2.33

2. Test Result

2.5 Bluetooth antenna 2D & 3D Directional pattern

