

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C296 2.4G antenna
Antenna type	Integral antenna
Product Description	Qianqi Little Black Pole White Color Number: 8020 Lower Fixed Base 9.35 PCB Board is FXLK-PB78x8.3-3DB-2.4G V1.2 Small Foam Fixed 1.13 Black Wire Bus Length 430MM Exposed 350MM, Soldering PCB Board Ratio 1:2:3, The Other End is a First Generation Terminal
Product No	JT16213B-IX1-350-2.4G
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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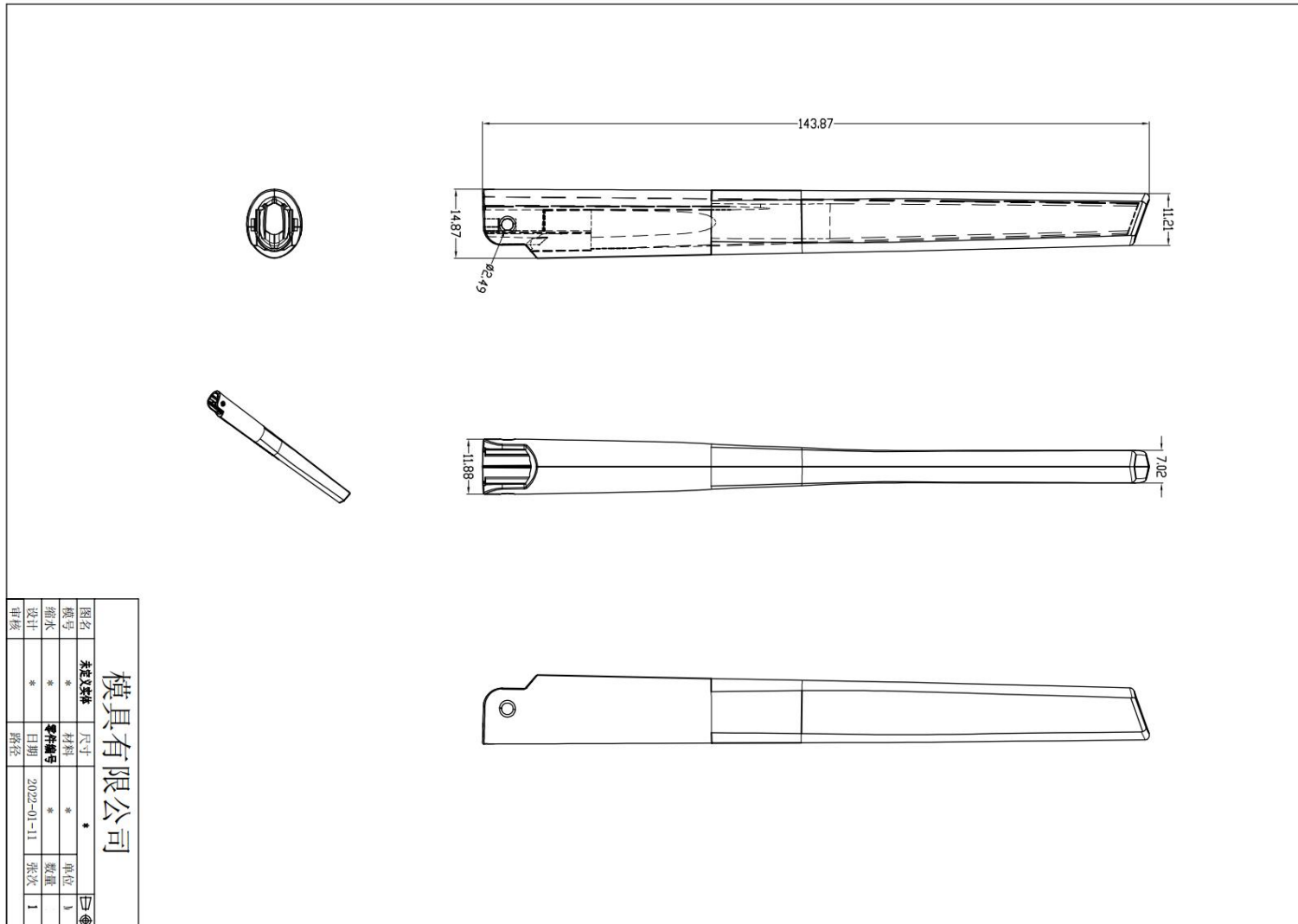
1. Product Overview

1.1 Antenna schematic diagram



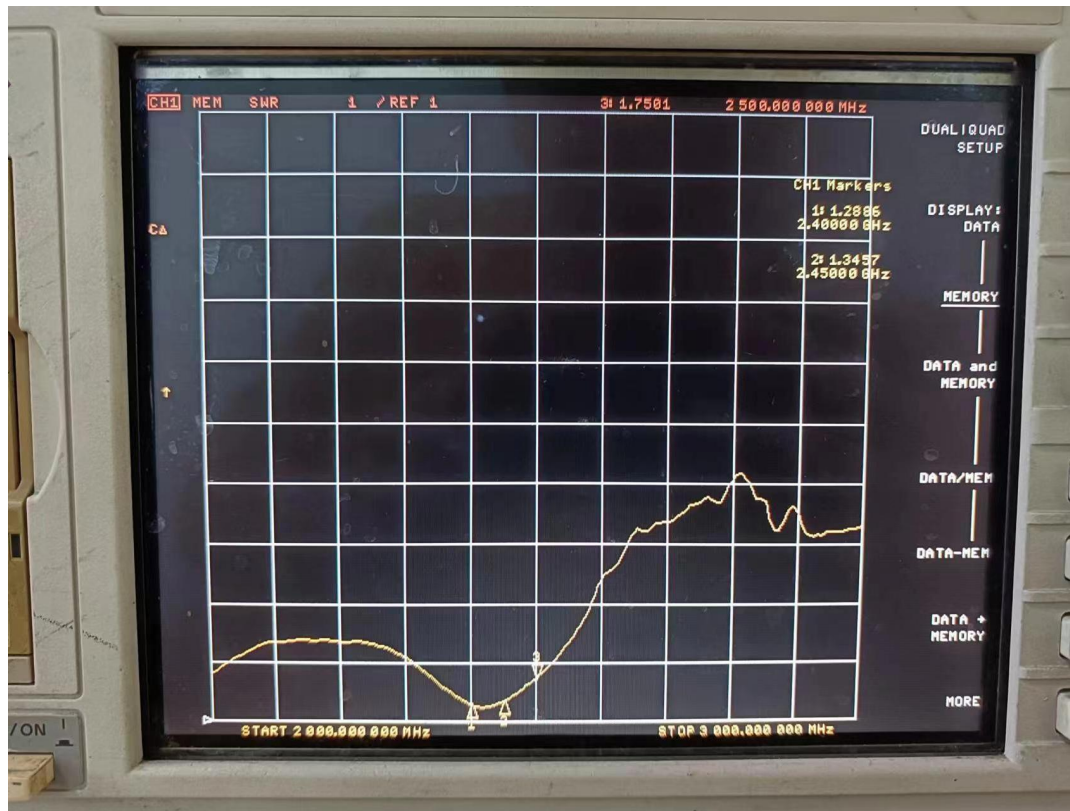
1. Product Overview

1.2 Dimensional drawing of antenna shell material



2. Test Result

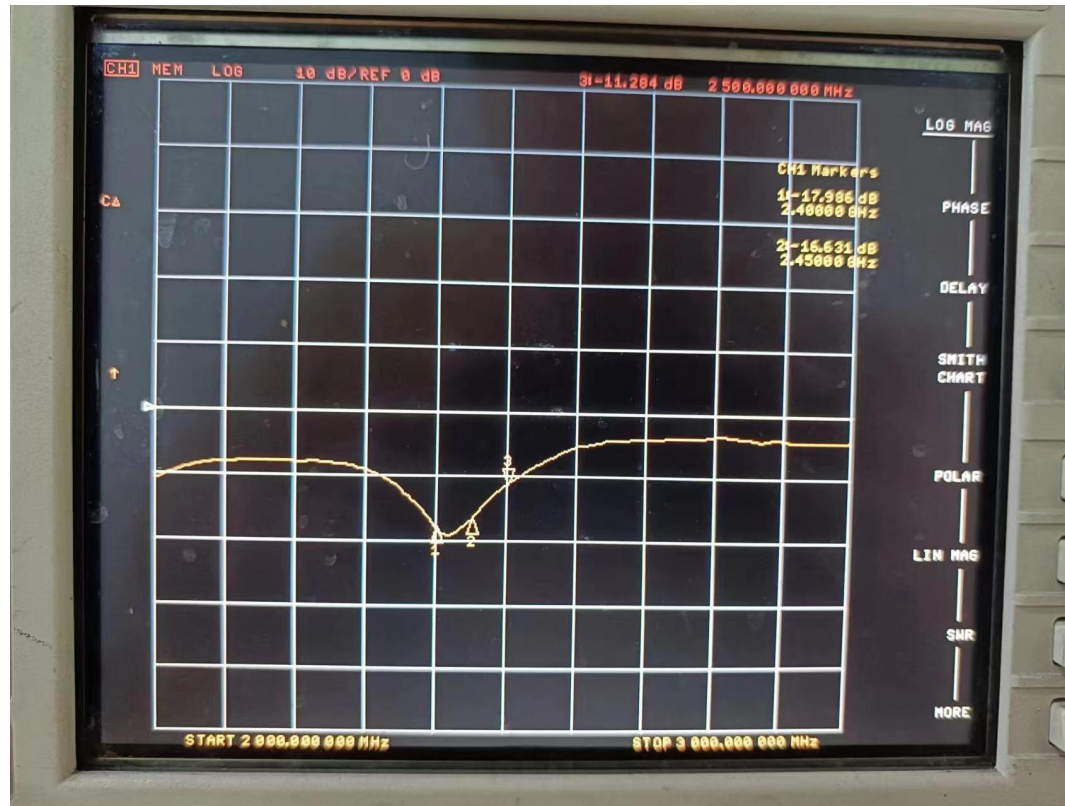
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.28	1.34	1.75

2. Test Result

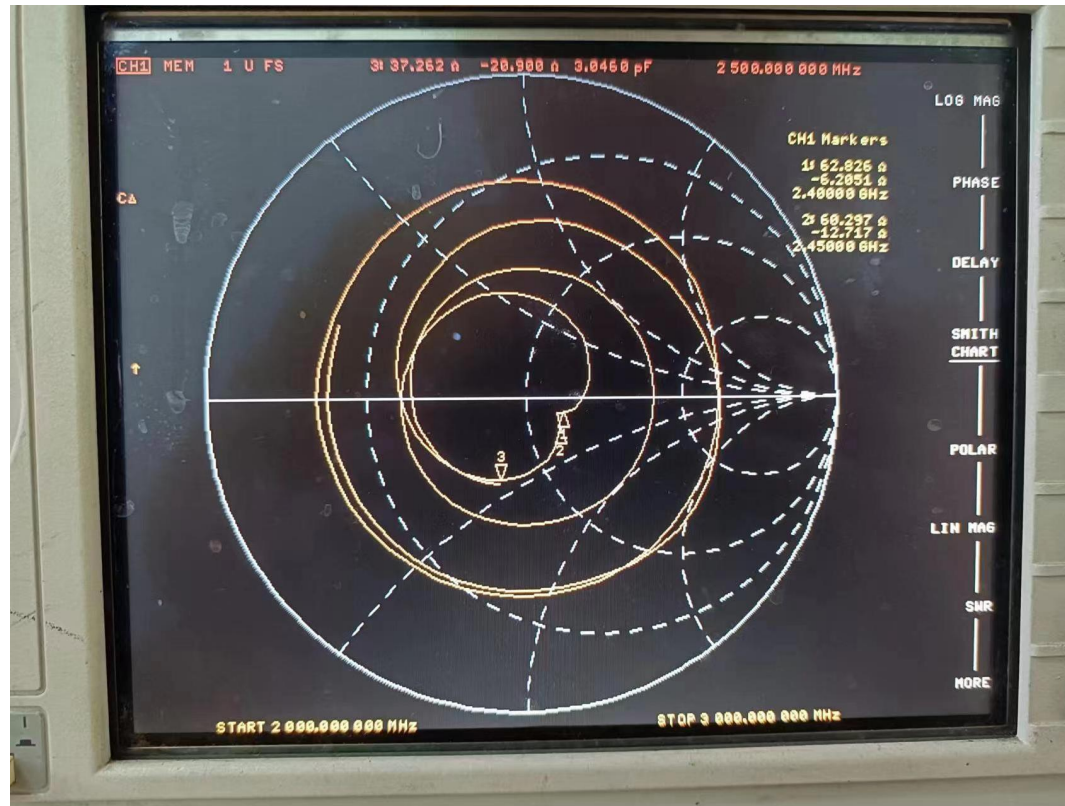
2.2 2.4G antenna *RETRUN LOSS*



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-17.96	-16.63	-11.20

2. Test Result

2.3 2.4G antenna *Smith Chart*



Frequency (MHz)	2400	2450	2500
	62.02	60.29	37.62

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.52	1.9
2410	53.42	2.81
2420	50.84	2.56
2430	59.7	2.3
2440	55.3	2.78
2450	56.36	1.91
2460	54.21	2.86
2470	54.47	2.04
2480	56.11	2.36
2490	58.63	2.8
2500	53.73	0.7

2. Test Result

2.5 2.4G antenna 2D & 3D Directional pattern

