

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	On-board antenna
Antenna type	DIPOLE antenna
Product Description	On-board antenna
Product No	
Antenna frequency band	2400MHz-2500MHz/5000MHz-5800MHz

Purpose

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

Content

1: Product Overview

1.1 Antenna schematic diagram

2: Test Result

2.1 VSWR

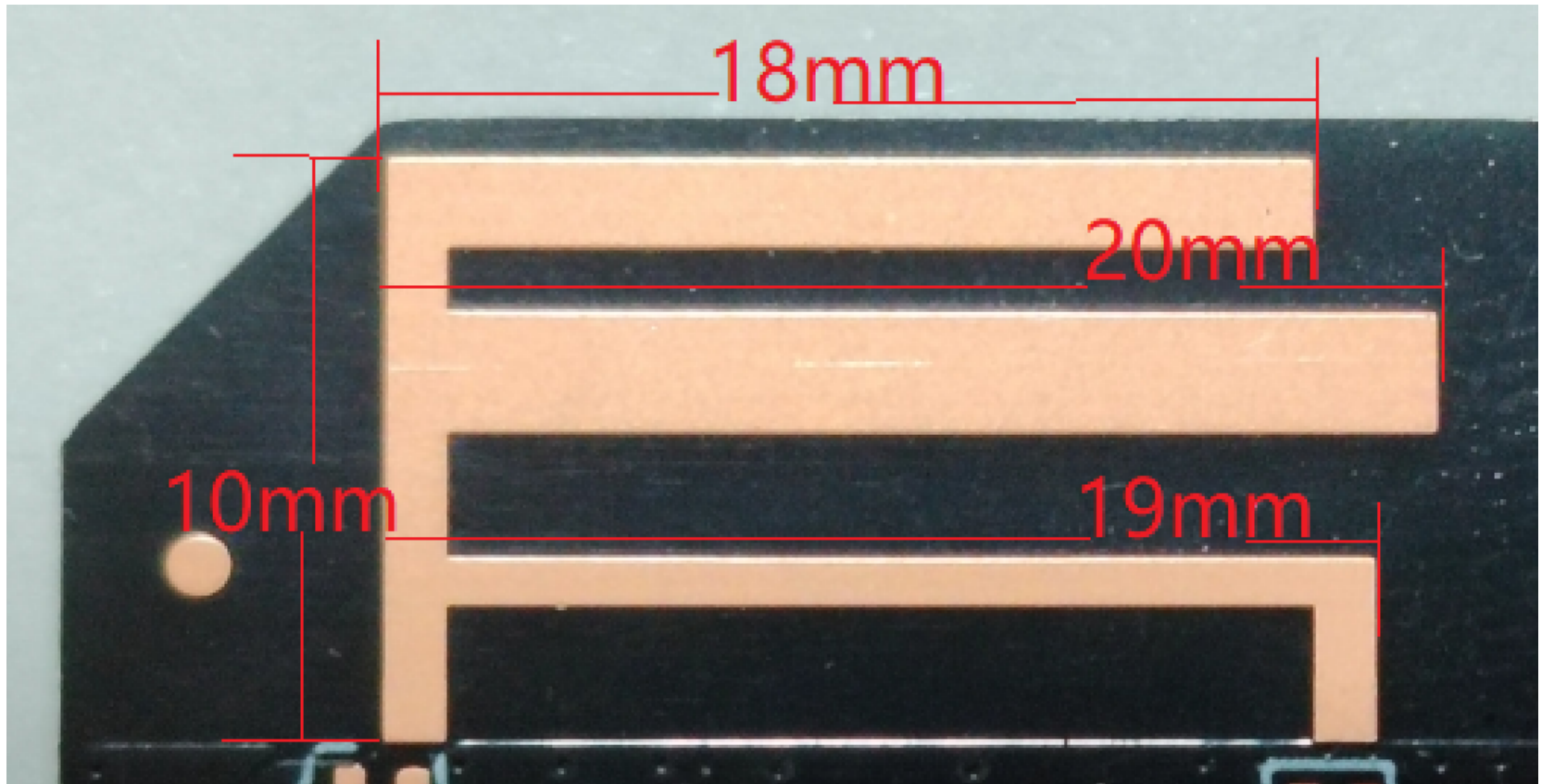
2.2 RETRUN LOSS

2.3 *Smith Chart*

2.4 GAIN & Efficiency

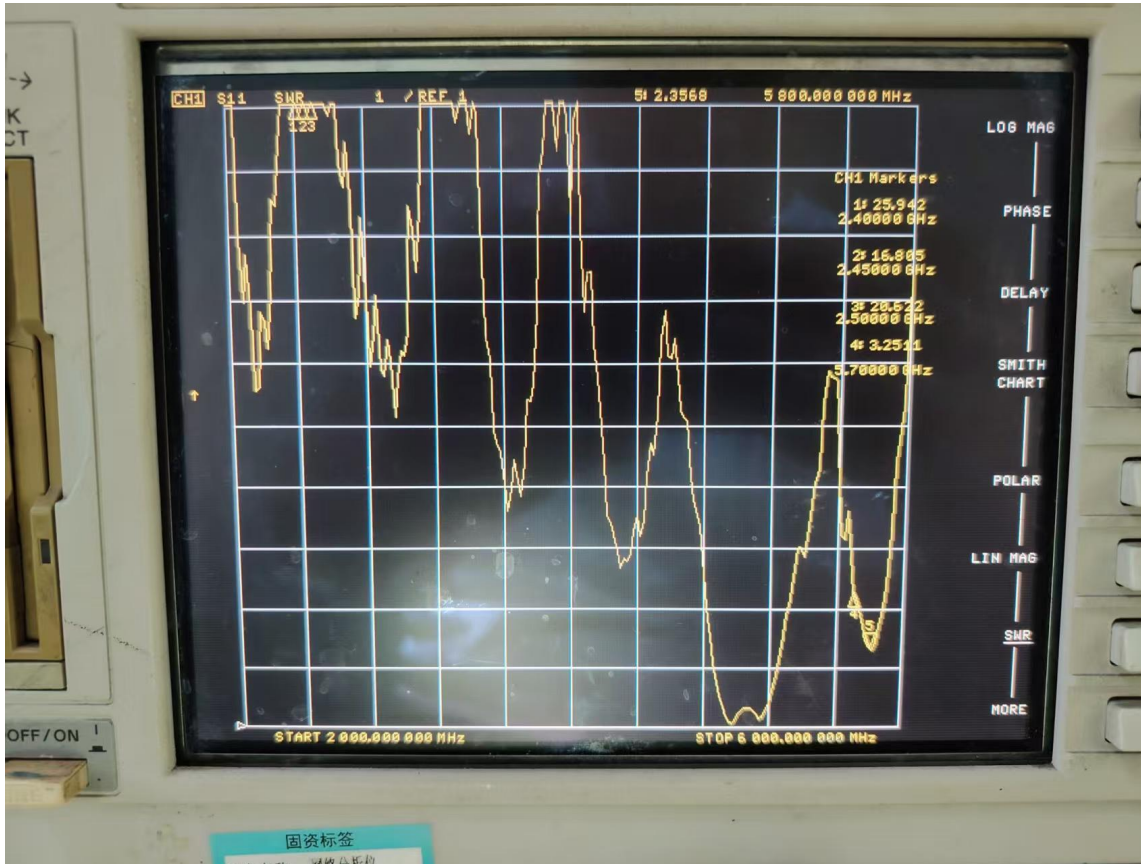
1. Product Overview

1.1 Antenna schematic diagram



2. Test Result

2.1 WIFI dual band antenna VSWR



Frequency (MHz)	2400	2450	2500	5700	5800
VSWR	25.94	16.8	20.6	3.25	2.35

2. Test Result

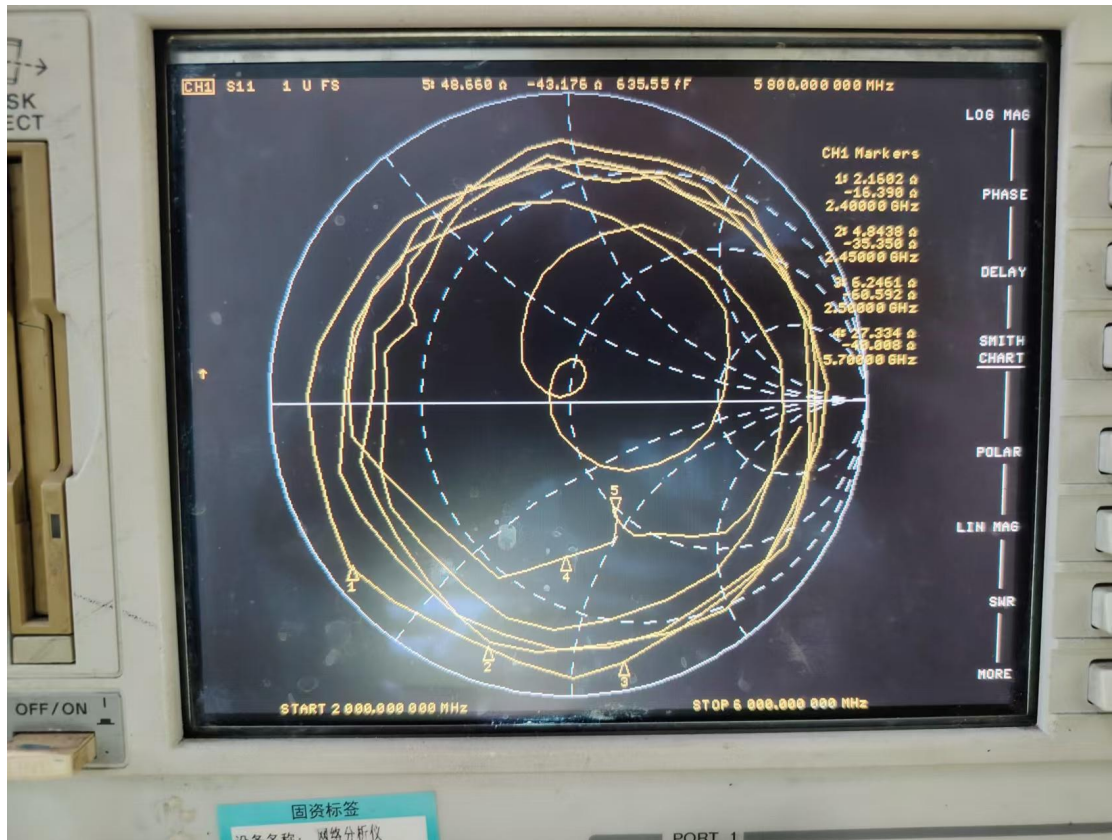
2.2 WIFI dual band antenna *RETRUN LOSS*



Frequency (MHz)	2400	2450	2500	5700	5800
RETRUN LOSS (DB)	-0.60	-1.04	-0.04	-5.51	-7.89

2. Test Result

2.3 WIFI dual band antenna *Smith Chart*



Frequency (MHz)	2400	2450	2500	5700	5800
	2.16	4.04	6.24	27.33	48.66

2. Test Result

2.4 WIFI dual band antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	0.34	-2.05
2410	0.62	-1.62
2420	0.41	-1.47
2430	0.55	-1.67
2440	0.74	-1.88
2450	0.63	-2.74
2460	0.45	-2.66
2470	0.14	-1.75
2480	0.33	-1.64
2490	0.49	-1.55
2500	0.71	-1.34

Freq (MHz)	Effi (%)	Gain (dBi)
5050	25.95	-0.66
5100	24.78	-0.34
5150	23.64	-1.19
5200	19.25	-1.09
5250	18.25	-2.03
5300	24.77	-0.99
5350	16.75	-2.41
5400	19.26	-2.31
5450	23.41	-0.74
5500	24.01	-0.64
5550	25.14	-0.55

Freq (MHz)	Effi (%)	Gain (dBi)
5700	13.52	-3.06
5710	12.67	-3.11
5720	13.33	-2.94
5730	14.65	-2.74
5740	14.70	-3.11
5750	13.64	-3.24
5760	12.88	-3.16
5770	12.74	-2.97
5780	13.09	-2.88
5790	12.46	-3.01
5800	13.08	-3.11