

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C519M dual band steel plate antenna
Antenna type	DIPOLE antenna
Product Description	304 nickel plating
Product No	GP1611B-BXG-A
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.

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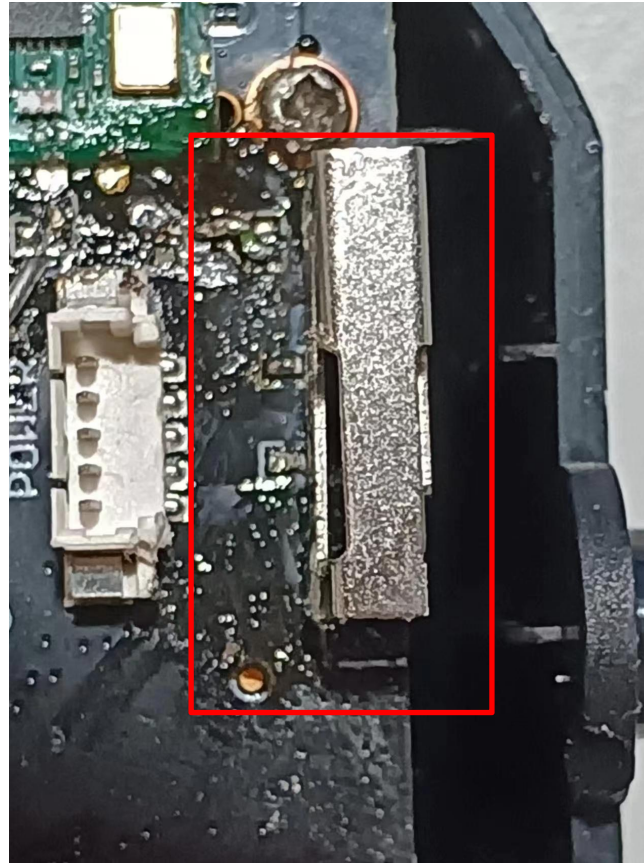
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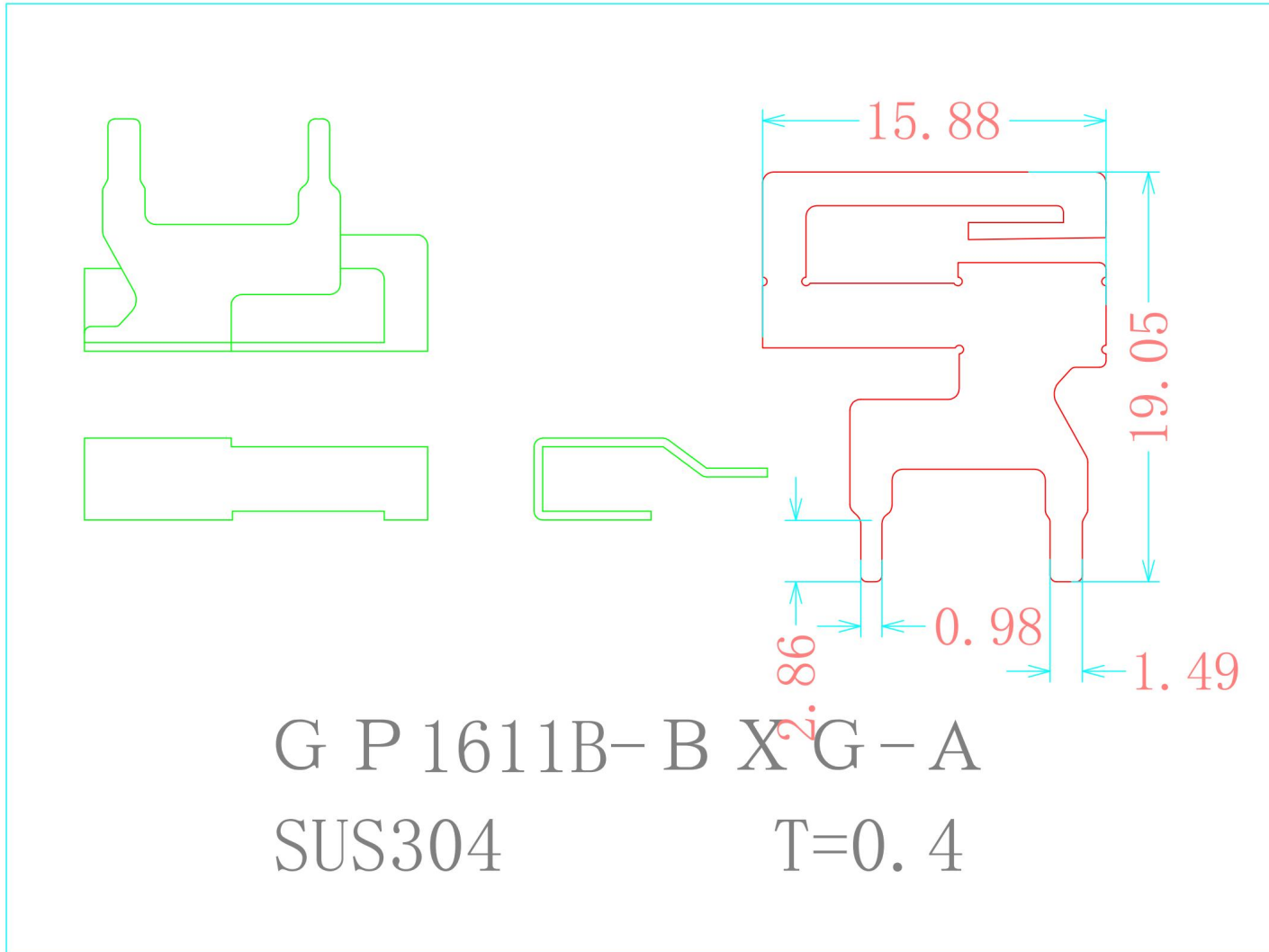
1. Product Overview

1.1 Antenna schematic diagram



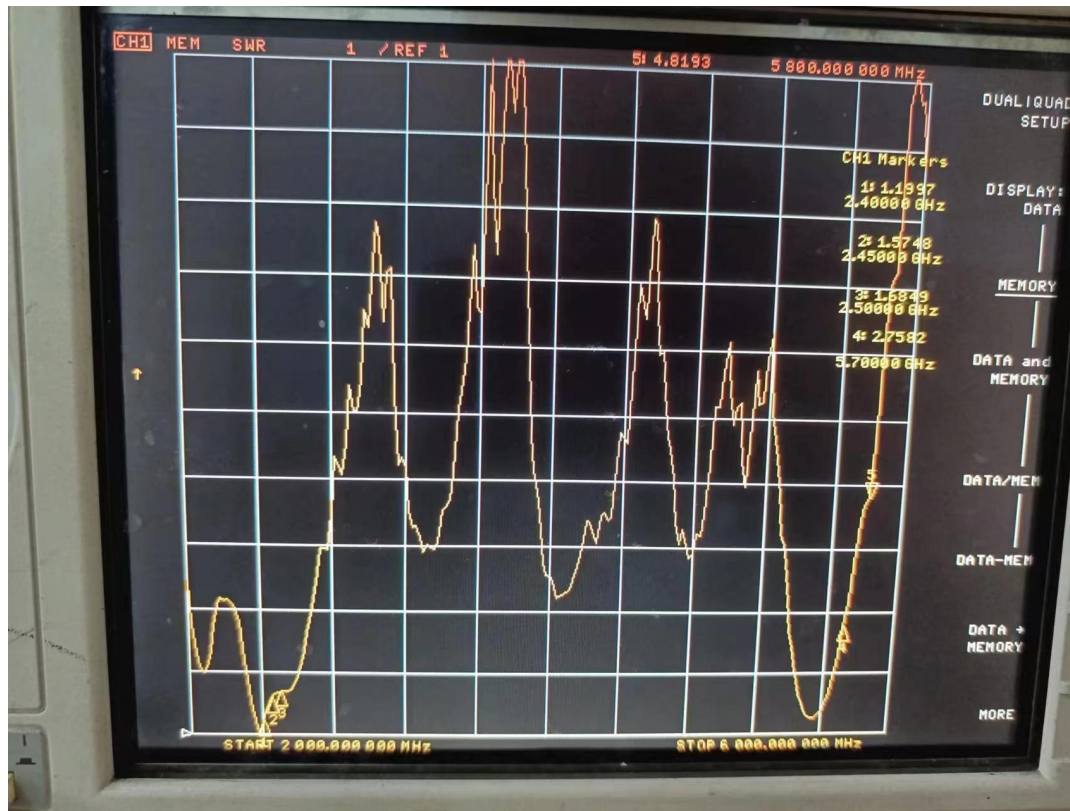
1. Product Overview

1.2 Antenna size diagram



2. Test Result

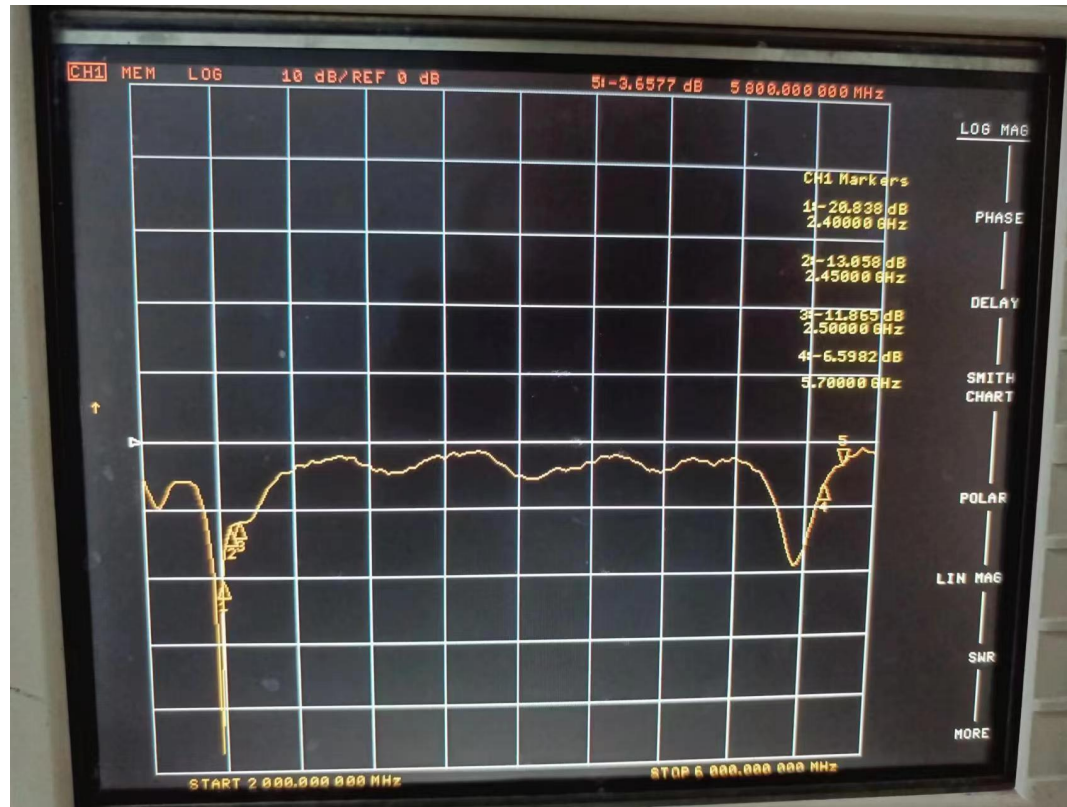
2.1 WIFI dual band antenna VSWR



Frequency (MHz)	2400	2450	2500	5100	5900
VSWR	1.19	1.57	1.68	4.95	4.81

2. Test Result

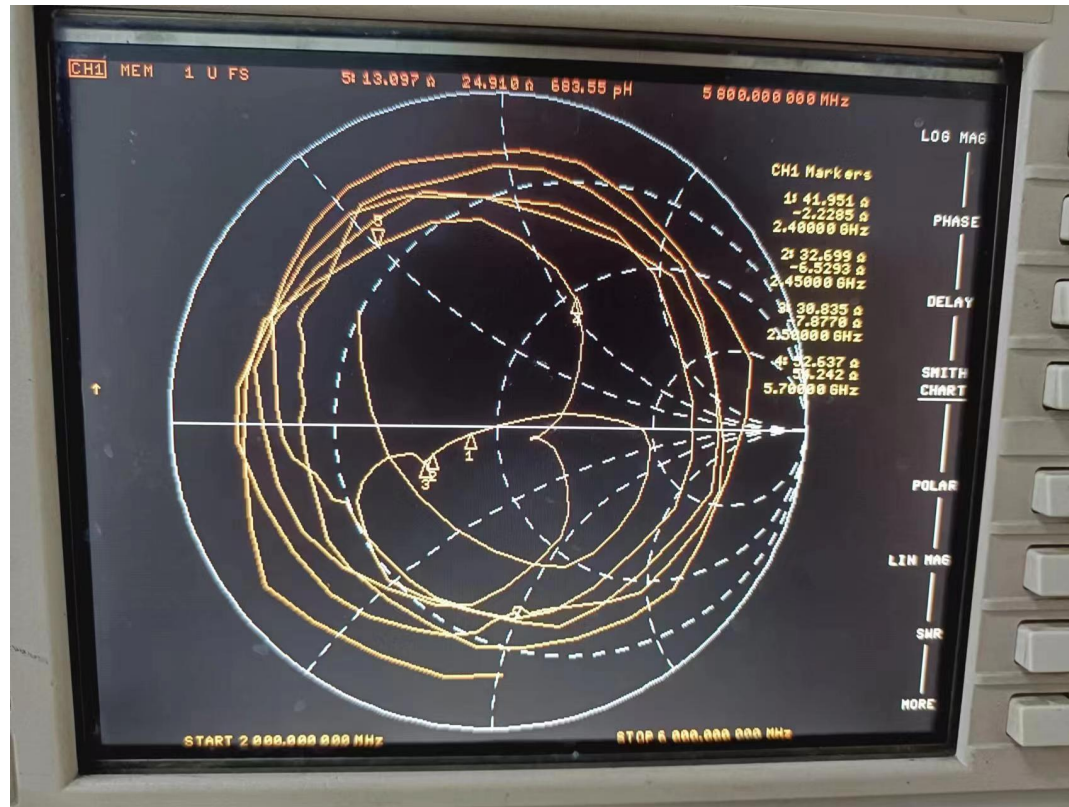
2.2 WIFI dual band antenna *RETRUN LOSS*



Frequency (MHz)	2400	2450	2500	5100	5900
RETRUN LOSS (DB)	-20.83	-13.05	-11.86	-2.99	-3.65

2. Test Result

2.3 WIFI dual band antenna Smith Chart



Frequency (MHz)	2400	2450	2500	5100	5900
	41.95	32.69	30.83	12.77	13.09

2. Test Result

2.4 WIFI dual band antenna GAIN & Efficiency

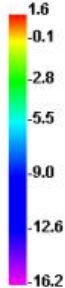
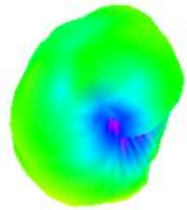
Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.6	1.19
2410	44.14	1.19
2420	38.1	1.21
2430	40.93	1.51
2440	47.53	1.76
2450	43.23	1.66
2460	42.99	1.66
2470	44.14	1.5
2480	43.12	2.18
2490	49.77	1.74
2500	40.91	2.18

Freq (MHz)	Effi (%)	Gain (dBi)
5100	46.6	1.55
5180	45.28	1.26
5260	46.03	1.47
5320	50.35	1.98
5470	49.03	1.35
5580	46.64	1.5
5670	50.33	1.31
5745	44.13	1.68
5800	44.7	1.6
5825	45.3	1.59
5900	48.17	1.63

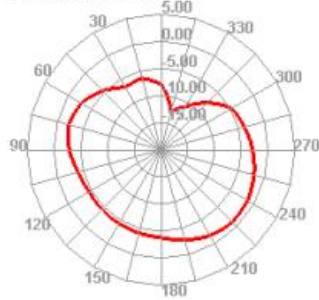
2. Test Result

2.5 WIFI dual band antenna 2D & 3D Directional pattern

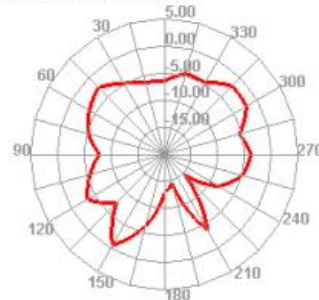
2400.000MHz



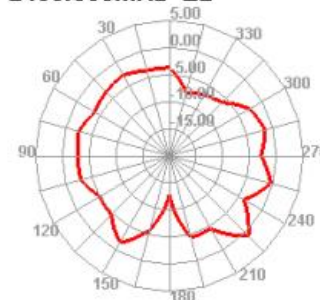
2400.000MHz H



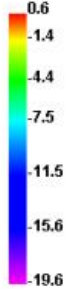
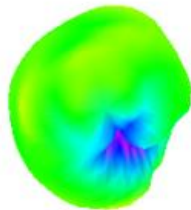
2400.000MHz E1



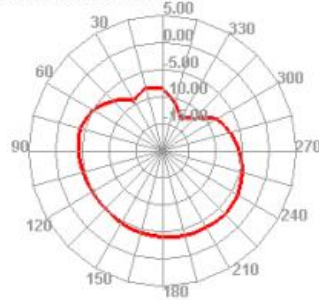
2400.000MHz E2



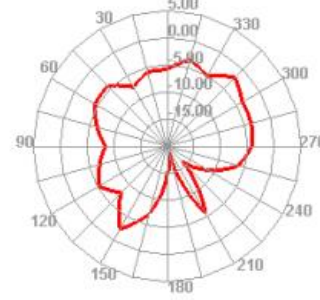
2450.000MHz



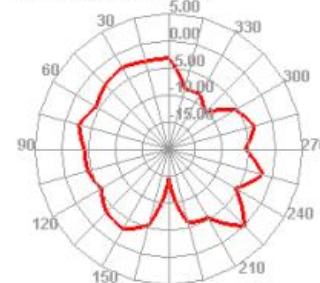
2450.000MHz H



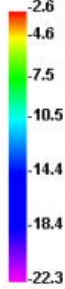
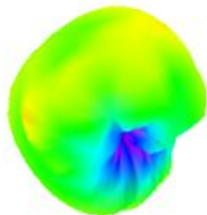
2450.000MHz E1



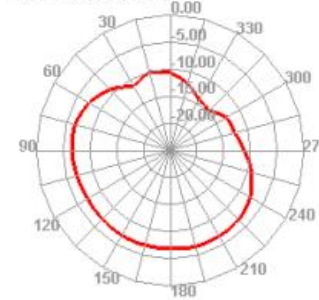
2450.000MHz E2



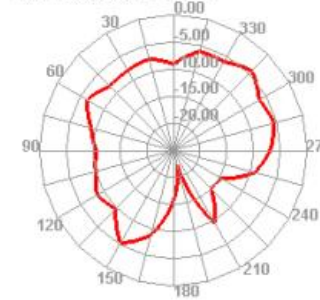
2500.000MHz



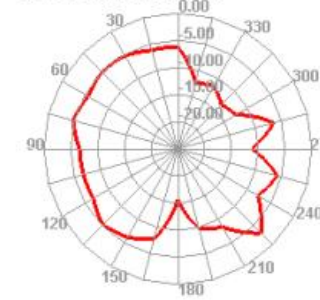
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



2. Test Result

2.5 WIFI dual band antenna *2D & 3D Directional pattern*

