

WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C691 dual band steel plate antenna
Antenna type	DIPOLE antenna
Product Description	304 nickel plating
Product No	GP1611C-BXG-A
Antenna frequency band	2400MHz-2500MHz/5150MHz-5800MHz

May 21, 2026



Purpose

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

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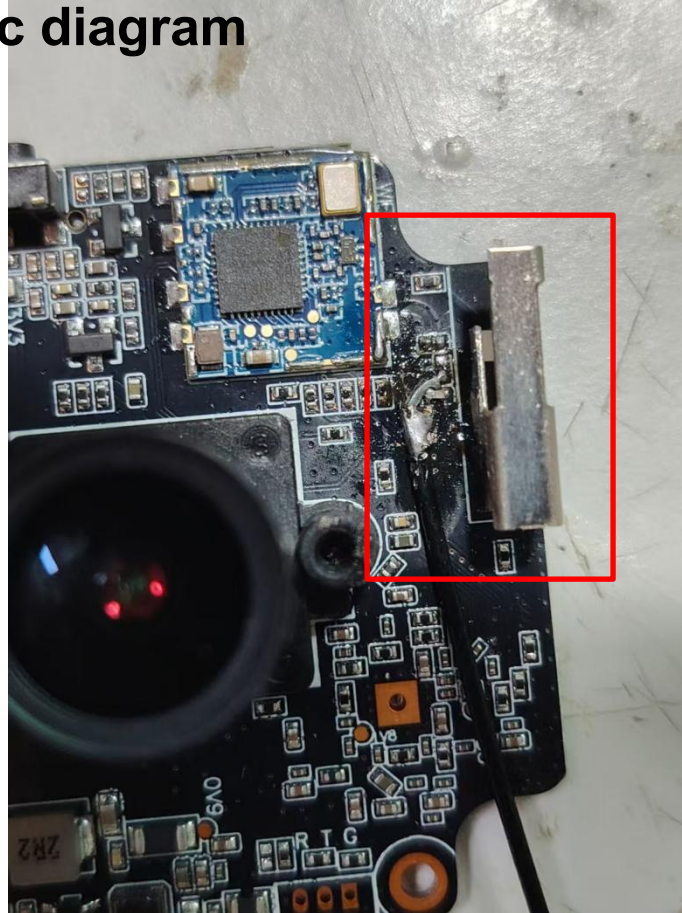
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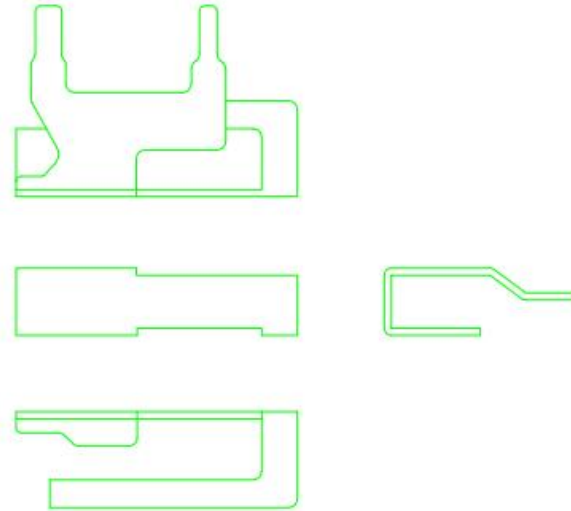
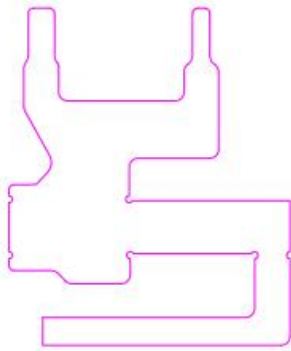
1. Product Overview

1.1 Antenna schematic diagram



1. Product Overview

1.2 Antenna size diagram



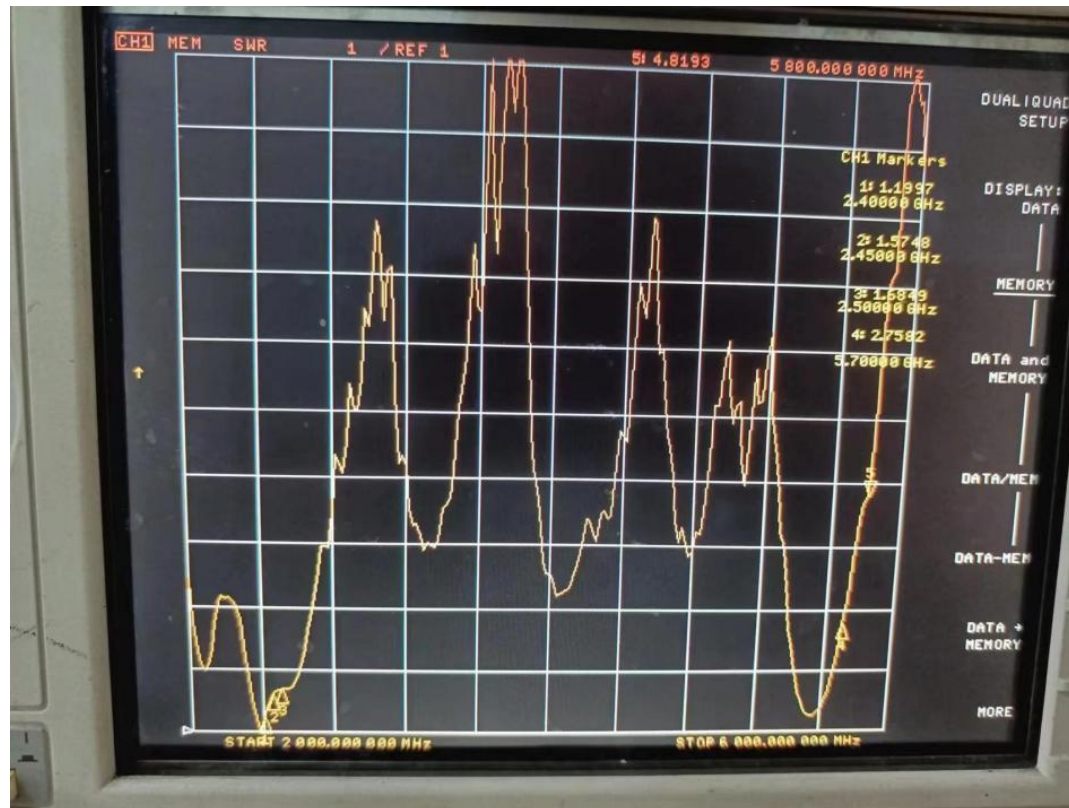
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2. Test Result

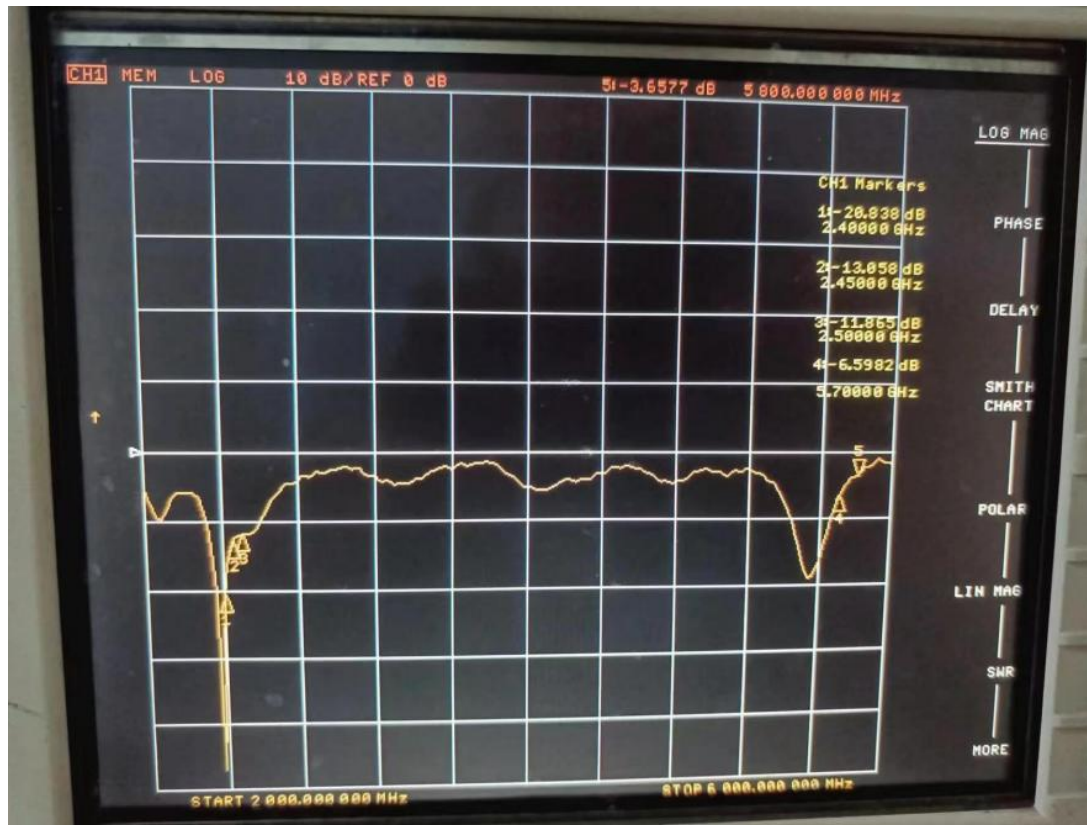
2.1 WIFI dual band steel antenna VSWR



Frequency (MHz)	2400	2450	2500	5230	5700	5800
VSWR	1.19	1.57	1.68	1.85	2.75	4.81

2. Test Result

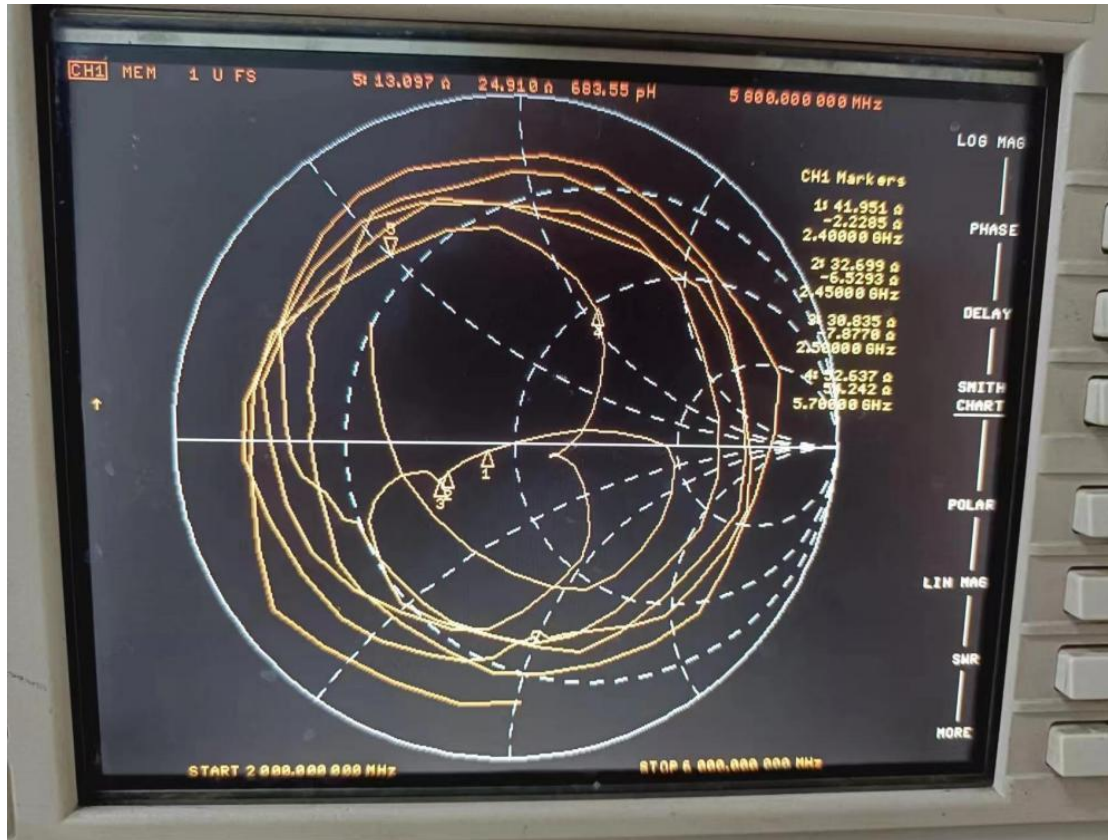
2.2 WIFI dual band steel antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500	5230	5700	5800
RETRUN LOSS (DB)	-20.83	-13.05	-11.86	-9.35	-6.59	-3.65

2. Test Result

2.2 WIFI dual band steel antenna



Frequen cy (MHz)	2400	2450	2500	5230	5700	5800
	41.95	32.69	30.83	99.06	52.63	13.09

2. Test Result

2.3 *WIFI dual band steel antenna* GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	40.07	1.40
2410	41.14	1.09
2420	41.55	1.71
2430	40.54	1.83
2440	47.45	1.85
2450	40.31	1.80
2460	41.26	2.42
2470	49.67	1.72
2480	49.8	1.85
2490	45.55	2.71
2500	43.57	0.56

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	47.56	2.48
5160	43.51	2.2
5170	45.16	1.41
5180	46.57	1.56
5190	42.49	2.24
5200	37.69	1.76
5210	41.74	2.18
5220	41.33	2.1
5230	42.67	2.30
5240	39.6	1.93
5250	39.4	1.93

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5260	42.25	2.21
5270	37.22	1.63
5280	40.03	1.85
5290	39.08	1.7
5300	39.33	1.72
5310	39	2.63
5320	37.77	2.43
5330	42.66	1.88
5340	42.53	1.79
5350	44.56	1.89
5360	44.97	1.9

2. Test Result

2.3 *WIFI dual band steel antenna* GAIN & Efficiency

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5370	49.82	2.38
5380	44.31	1.88
5390	46.98	2.12
5400	43.1	1.59
5410	46.27	1.85
5420	43.03	2.56
5430	43.34	1.57
5440	44.84	2.67
5450	49.19	2.01
5460	48.69	1.97
5470	47.08	1.85

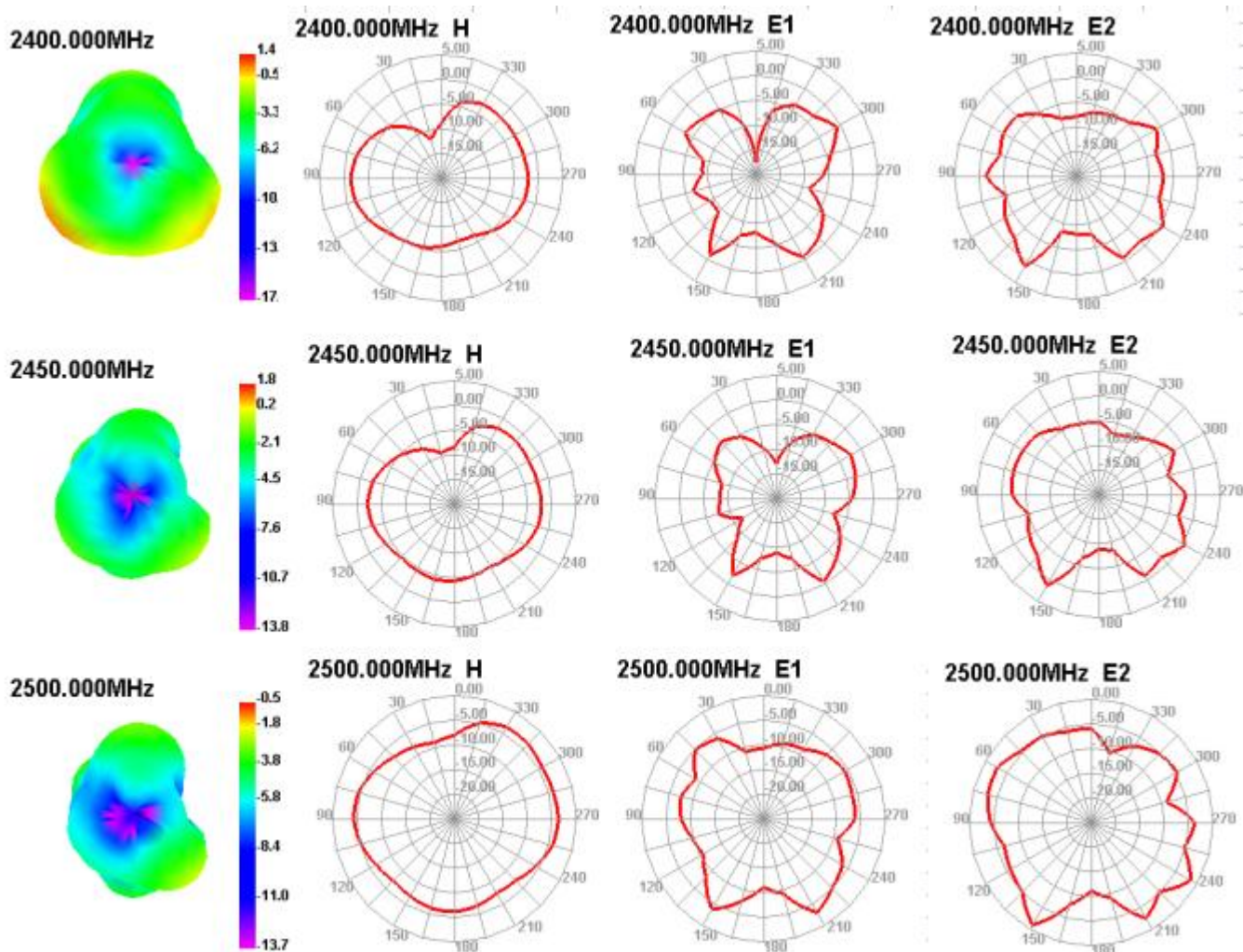
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5480	50.64	1.11
5490	45.61	2.71
5500	45.79	1.7
5510	45.69	2.66
5520	47.98	1.83
5530	46.77	1.74
5540	43.57	2.43
5550	46.06	2.57
5560	47.19	1.59
5570	45.02	2.38
5580	46.64	1.45

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5590	46.01	2.34
5600	48.13	2.43
5610	46.85	2.28
5620	46.49	2.14
5630	40.81	2.36
5640	49.82	2.2
5650	48.15	2.97
5660	49.16	1.95
5670	45.38	1.91
5680	50.32	1.94
5690	48.84	1.82

Freq	Effi	Gain
(MHz)	(%)	(dBi)
5700	45.47	2.12
5710	48.23	1.16
5720	47.82	1.48
5730	43.46	1.44
5740	47.84	1.74
5750	43.43	1.38
5760	43.67	1.43
5770	44.26	1.39
5780	47.14	1.77
5790	44	1.2
5800	42.6	1.07

2. Test Result

2.4 WIFI dual band steel antenna 2D & 3D Directional pattern



2. Test Result

2.4 WIFI dual band steel antenna 2D & 3D Directional pattern

