

WIFI Antenna Test Report



Manufacturer information	Ansjer Electronics Co., Ltd
Project	Smart Button sensor 2.4G onboard antenna report
Antenna type	DIPOLE
Product Description	The size of the onboard antenna is 14.4MM x 5.4MM
Product No	PB1405A-PCB-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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1.1 Antenna schematic diagram

1.2 Antenna size diagram

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2.1 VSWR

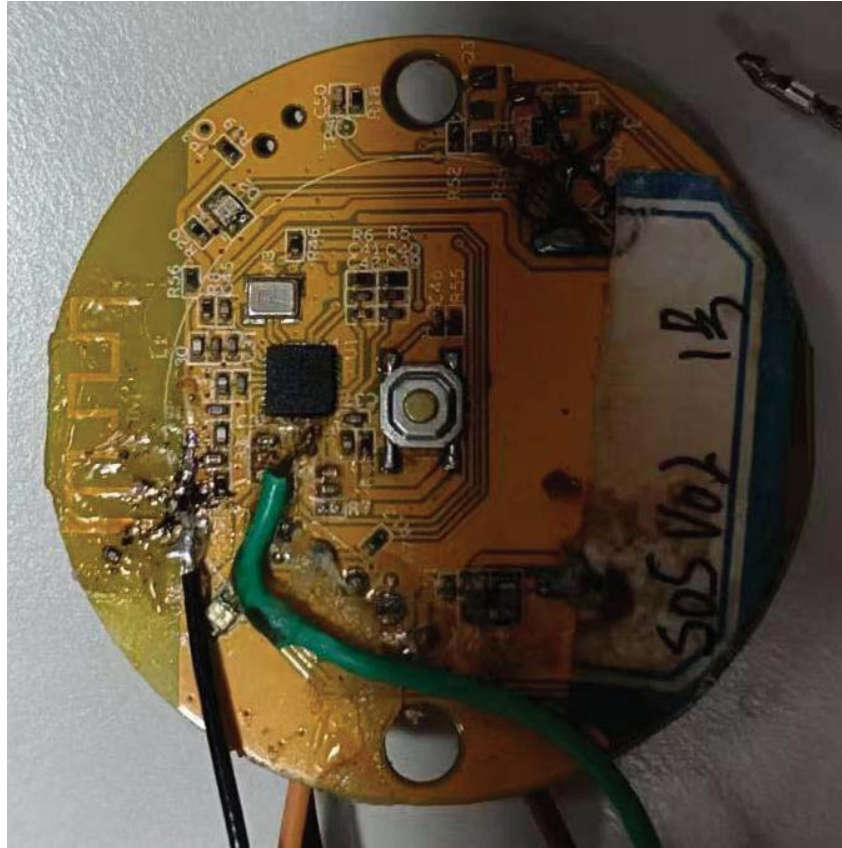
2.2 RETRUN LOSS

2.3 *Smith Chart*

2.4 GAIN & Efficiency

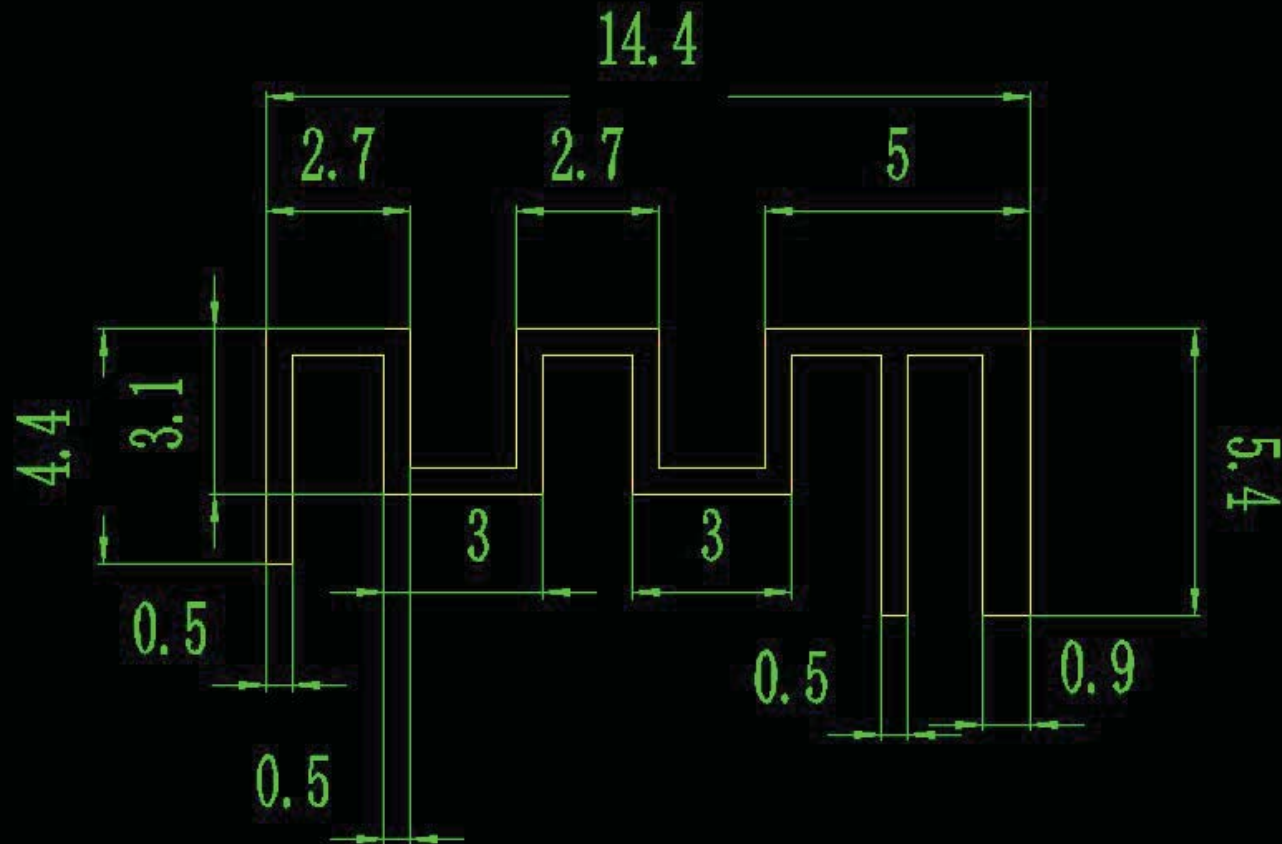
1. Product Overview

1.1 Antenna schematic diagram



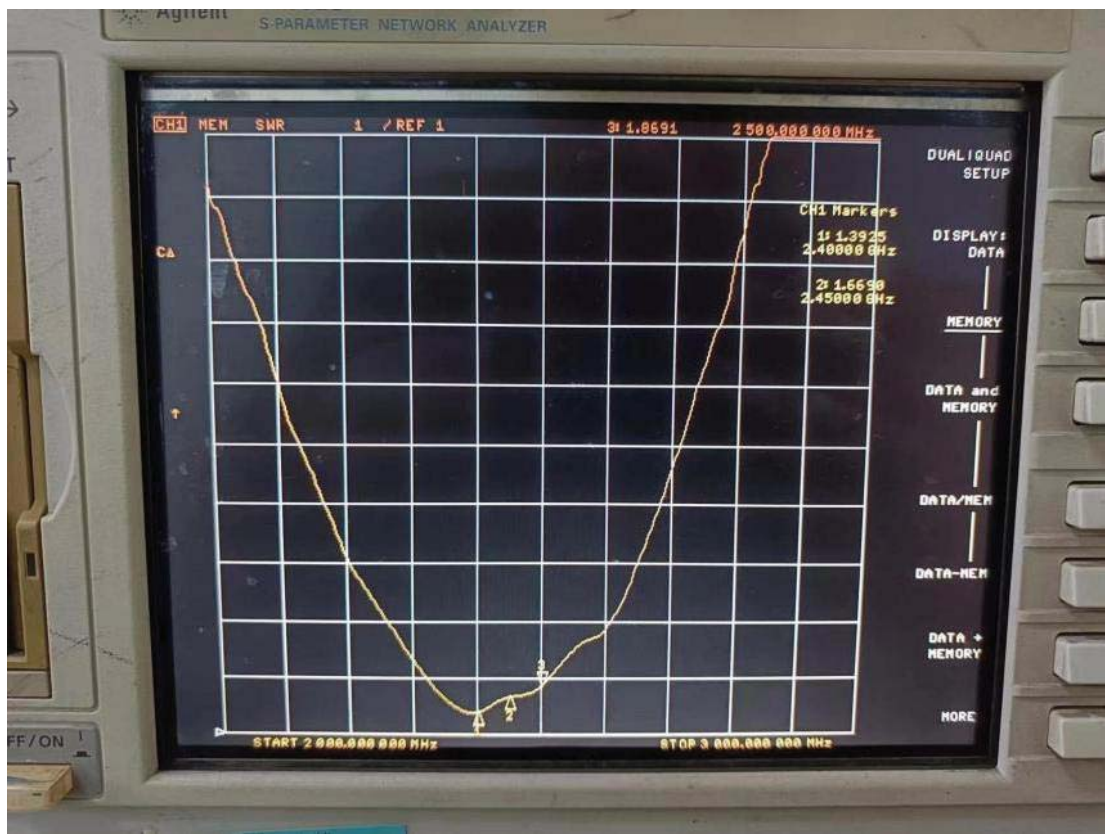
1. Product Overview

1.2 Antenna size diagram



2. Test Result

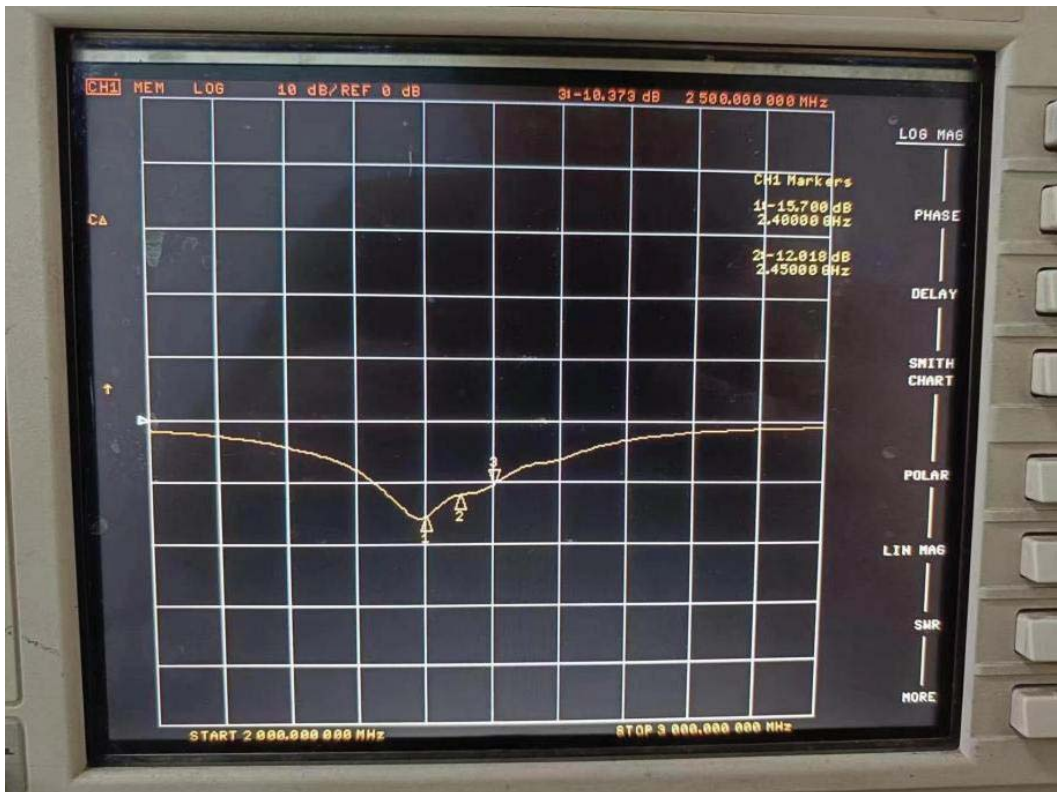
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.39	1.66	1.86

2. Test Result

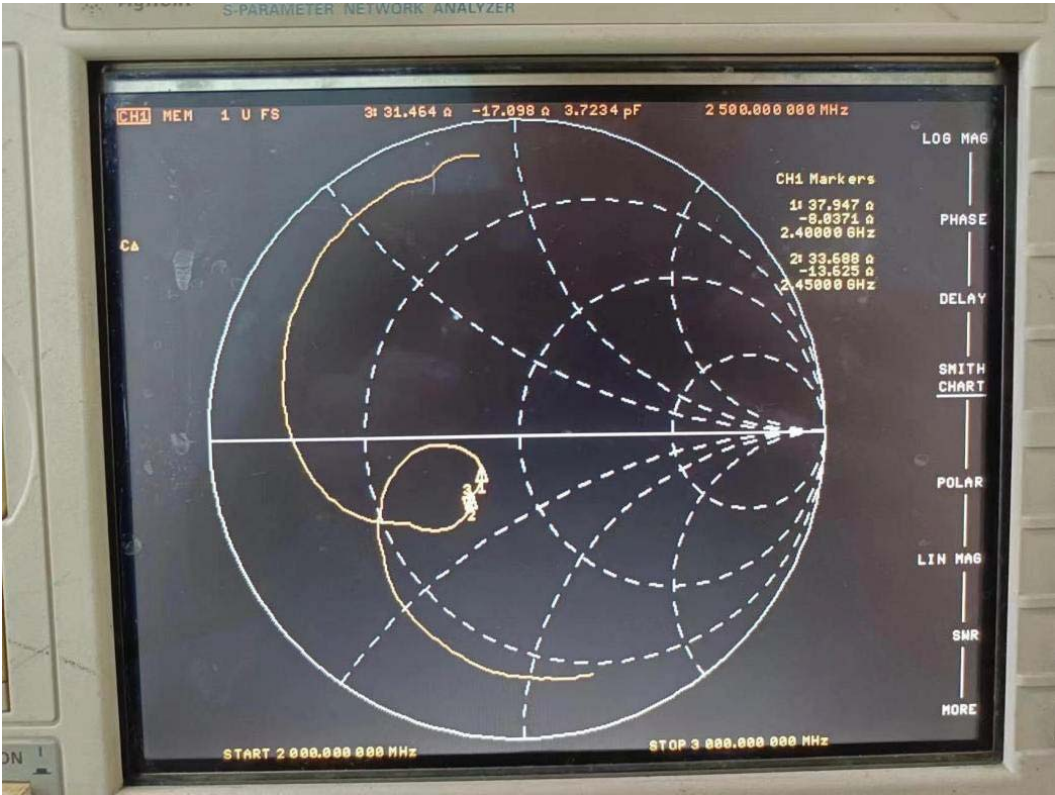
2.2 2.4G antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-15.70	-12.01	-10.37

2. Test Result

2.3 2.4G antenna Smith Chart



Frequency (MHz)	2400	2450	2500
	37.94	33.68	31.64

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Gain (dBi)
2400	49.75	2.05
2410	47.66	1.59
2420	48.97	2.15
2430	44.46	2.29
2440	48.13	1.67
2450	43.2	2.2
2460	46.19	1.47
2470	44.52	1.32
2480	43.7	1.26
2490	40.22	1.13
2500	45.33	1.74