

Shenzhen New Link Technology Co.,Ltd

Sample specification

ANTENNA APPROVAL SHEET

Customer: Magog

Item: MP626WAC

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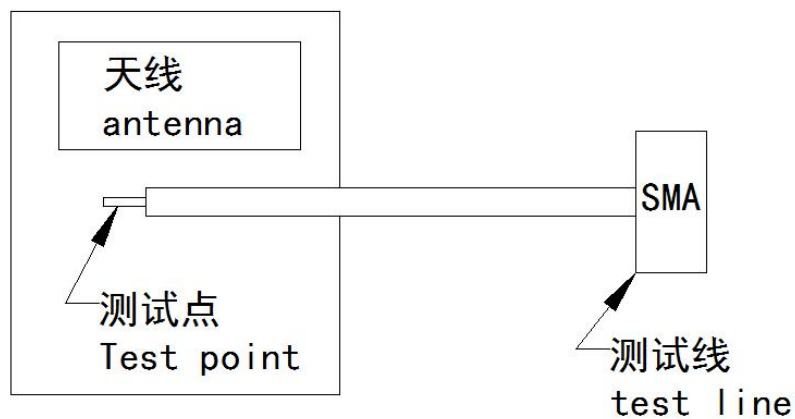
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1. test fixture

Objective: To test the passive parameters of the antenna as accurately as possible.

Manufacture method: the sample mechanism is made of a 50ohm coaxial cable, one end is connected to the test point at the back end of the matching circuit (front end of the RF test hole) of the prototype motherboard, and the other end is connected to the SMA connector. The schematic diagram is as follows



2. Matching circuit

he matching circuit of the motherboard remains unchanged

3. S11 test

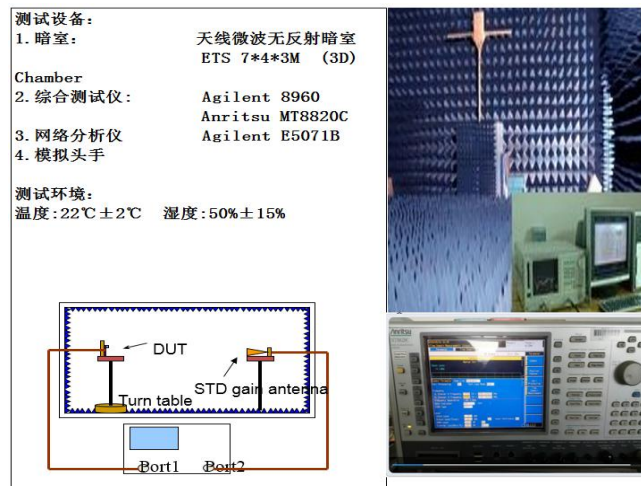
3.0 S11 test method description

device under test):

Network analyzer; (Agilent 5071B)

Test method: a 50ohm Cable CABLE was exported from the test port of the instrument, and the SMA connector of the prototype maker was connected after calibration with the calibration part, and the return loss and standing wave ratio corresponding to the relevant frequency points were recorded.

test diagram is as follows:



3.1 Passive data

Standing wave ratio: main(Diversity) antenna

performance parameter	
product name	MP626WAC
product type	antenna components
Frequency range	2.4G-2.5G 5.1G-5.85G
spectrum	
connector	/
Coaxial line specification	/
Antenna specification	
Antenna color	
material	LSD

4 Dark room test data

4.0

Test system: ETL shielded darkroom

Test environment: temperature 22°C±3°C, humidity 50%±15%

Test equipment: Use Agilent E5071B network analyzer to test passive data,
Use the cmw500 integrator to test the active data

4.1 test data

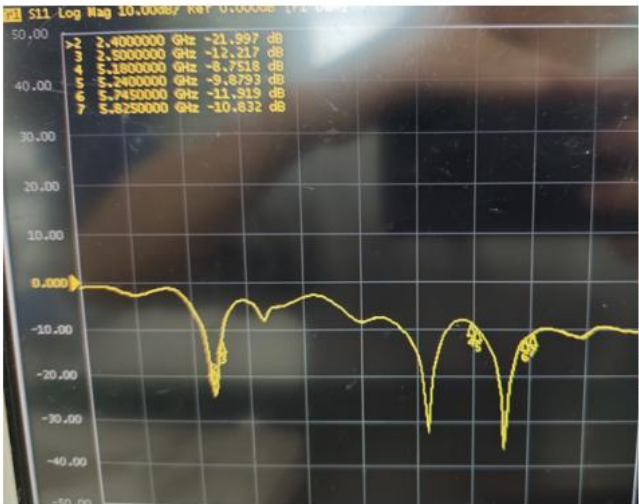
The WiFi has active data

2.4GWIFI	802.11b (11M)		
channel	1	7	13
TRP	14.6	15.5	14.7
TIS	-81.8	-81.9	-81

5GWIFI	802.11a (54M)		
channel	36	149	165
TRP	12.5	10.3	10.1
TIS	-71.8	-70.8	-69.1

4.2 3D test data

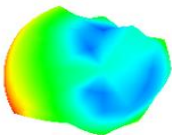
WiFiCH0/WiFiCH1 Antenna test data are same as below



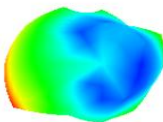
Freq (MHz)	Gain (dBi)
2400	0.93
2410	1.26
2420	1.58
2430	1.31
2440	1.15
2450	1.31
2460	1.41
2470	1.32
2480	1.28
2490	1.71
2500	1.22

Freq (MHz)	Gain (dBi)	Freq (MHz)	Gain (dBi)
5150	-2.29	5800	-2.55
5200	-2.9	5850	-2.55
5250	-2.87	5900	-2.55
5300	-2.1	6100	-2.55
5350	-2.34	6200	-2.55
5400	-2.5	6300	-2.55
5450	-2.59	6400	-2.55
5500	-2.98	6500	-2.55
5550	-2.92	6600	-2.55
5600	-2.17	6700	-2.55
5650	-2.39	6800	-2.55
5700	-2.59	6900	-2.55
5750	-2.27	7150	-2.55

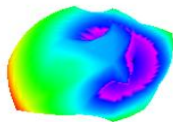
2400.000MHz



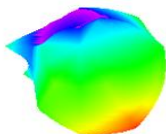
2450.000MHz



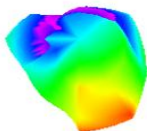
2500.000MHz



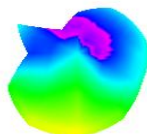
5150.000MHz



5550.000MHz



5850.000MHz



5. Mass production antenna indicators

In antenna mass production, the standing-wave ratio is used as the test standard. According to the differences of the project itself, the following criteria are given:

frequency	Production standard
2400~2500mhz 5150-7125mhz	$VSWR \leq VSWR+0.5$

6. Structura

