

Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co. , Ltd				
Customer name	Jin Taiyi				
Sample name	T1295-7863				
model					
Sample size	3-in-1 Antenna: Pin Type Size: 10.4*46.65 Silkscreen: T15-7863-WGB-AH				
Inspection item	Performanc e test	Visual inspection	Structure	In the news	Test results
Notes					
Quality Audit		Project Audit		Business confirmation	
The following is to be completed by the client					
Customer feedback	Dongguan Jintai Yi Electronics Co., Ltd				
Customer signature/seal	Dongguan Jintai Yi Electronics Co., Ltd Ronghui Zou date:2026-03-28				

Antenna Test Report

Test Unit: Shenzhen Aihui Technology Co. , Ltd.

Materials	FPC coaxial line		
Antenna type	MonopoleType	Polarization mode	Linear
Application scenario			
Working band	GSM/LTE/WIFI /BT /GPS	VSWR	≤2
Power	Max: 2W	Impedance	50Ω
dBi			
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		

Antenna Description:

1. Grounding processing and picture description: no

2. Need to change the motherboard to match: no

- Test voltage: 3.6V, check the antenna contact is good before testing.
- The RF cable of the integrated tester is kept in a natural state and can not be curled.

Specification:test the specified power level, all indicators must conform to the specifications.

1.Project Image

2.Test Fixture

3.Antenna matching circuit

4.S11 test

5.Antenna passive efficiency and gain

6.Darkroom test equipment and data

7.Schematic diagram of antenna assembly

8.Antenna environment handling

9.Antenna mass production index

10.Structural drawing

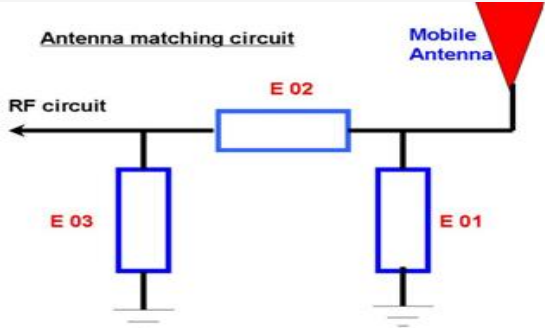
1.Project Image

The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

2.Test Fixture

Objective: to test the passive parameters of antenna as accurately as possible. Making Method: the handset is made of a 50 ohm coaxial cable, one end of which is connected to the test point of the back end of the matching circuit of the handset motherboard (front end of the RF test hole) , and the other end is connected to the SMA joint. The diagram is as follows:

3、 Antenna matching circuit



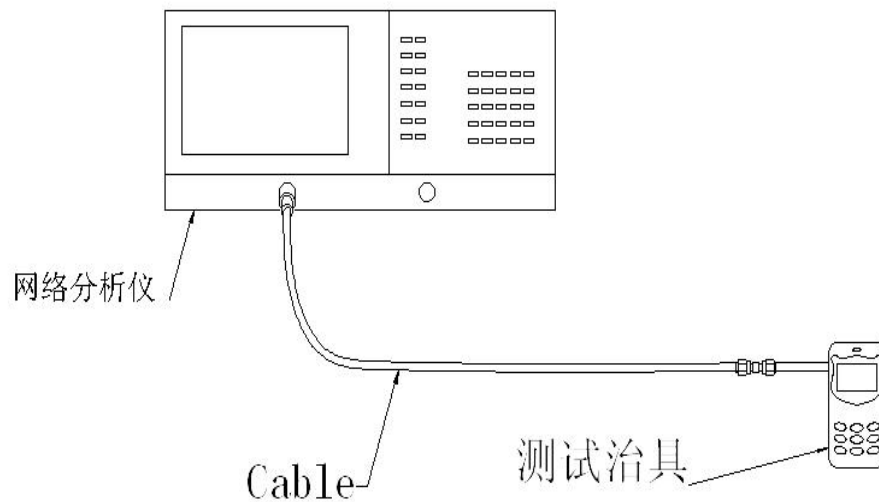
Modify

E01	E02	E03
No	No	No

Note: The match is unmodified.

4.S11 test

4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding to the relevant frequency points. The test schematic is as follows:



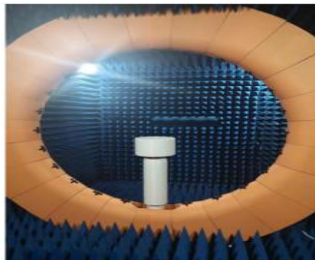
5. Darkroom test equipment and dat

5.1.Test Equipment

Test system: shielded darkroom

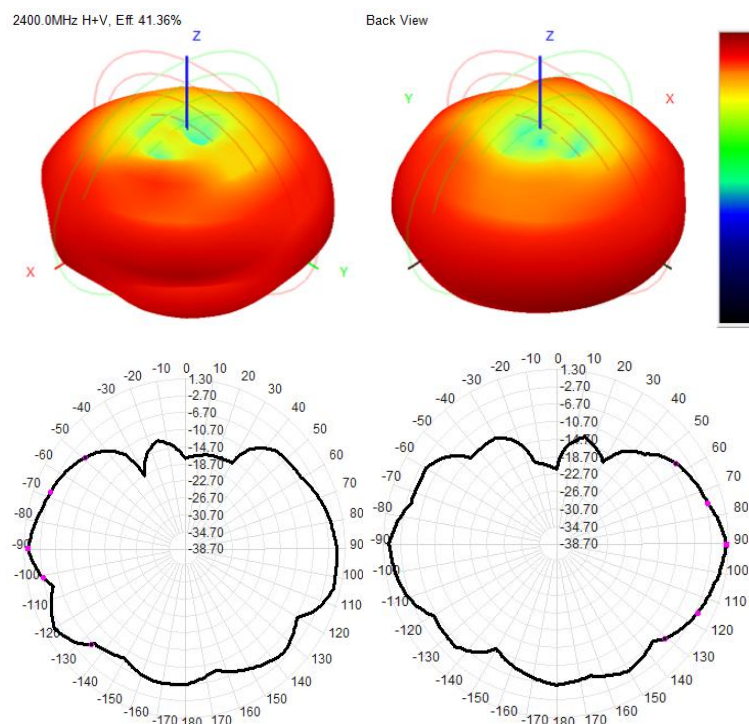
The temperature was $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the humidity was $50\% \pm 15\%$

Test equipment: when testing passive data, use the Network analyzer AGILENTE5071C
to test active data, use the omnibus CMW500

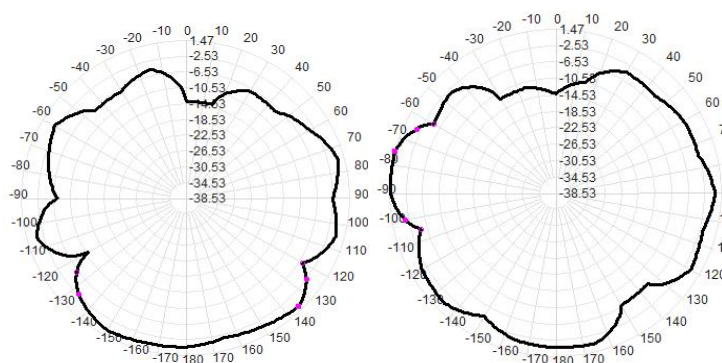
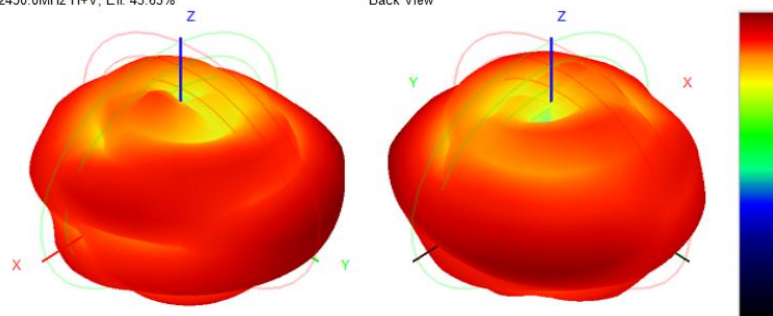


5.2.Passive antenna test data

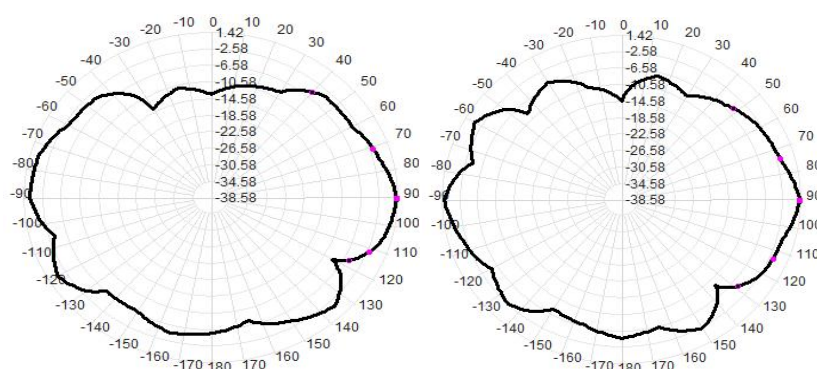
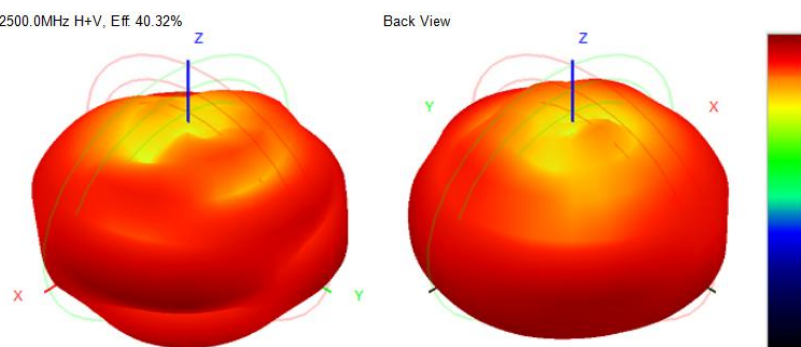
Gain&Efficiency			
frequency (Hz)	gain (dB)	efficiency (dB)	efficiency
2400M	1.3	-3.96	41.36%
2410M	0.89	-3.88	40.58%
2420M	1.03	-3.93	42.11%
2430M	1.31	-3.97	43.21%
2440M	1.14	-3.85	41.03%
2450M	1.47	-3.84	43.63%
2460M	1.15	-3.96	43.28%
2470M	0.96	-3.92	41.11%
2480M	1.25	-3.91	43.63%
2490M	0.91	-4.25	42.85%
2500M	1.42	-4.16	40.32%



2450.0MHz H+V, Eff. 43.63%



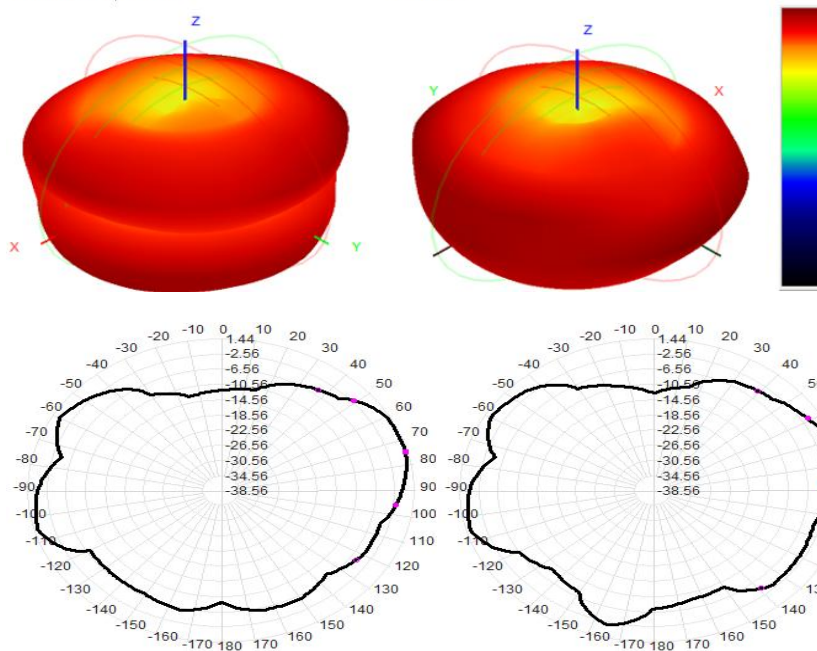
2500.0MHz H+V, Eff. 40.32%



Gain&Efficiency			
frequency (Hz)	gain (dB)	efficiency (dB)	efficiency
1555M	1.08	-4.74	40.18%
1565M	1.26	-4.18	41.15%
1575M	1.44	-4.38	43.88%
1585M	0.93	-4.55	41.17%
1595M	1.01	-4.43	39.04%

1575.0MHz H+V, Eff. 43.88%

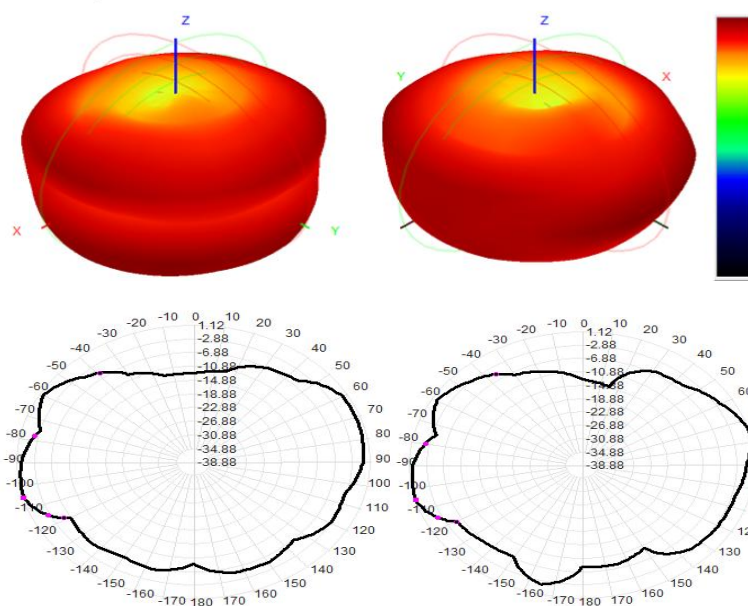
Back View



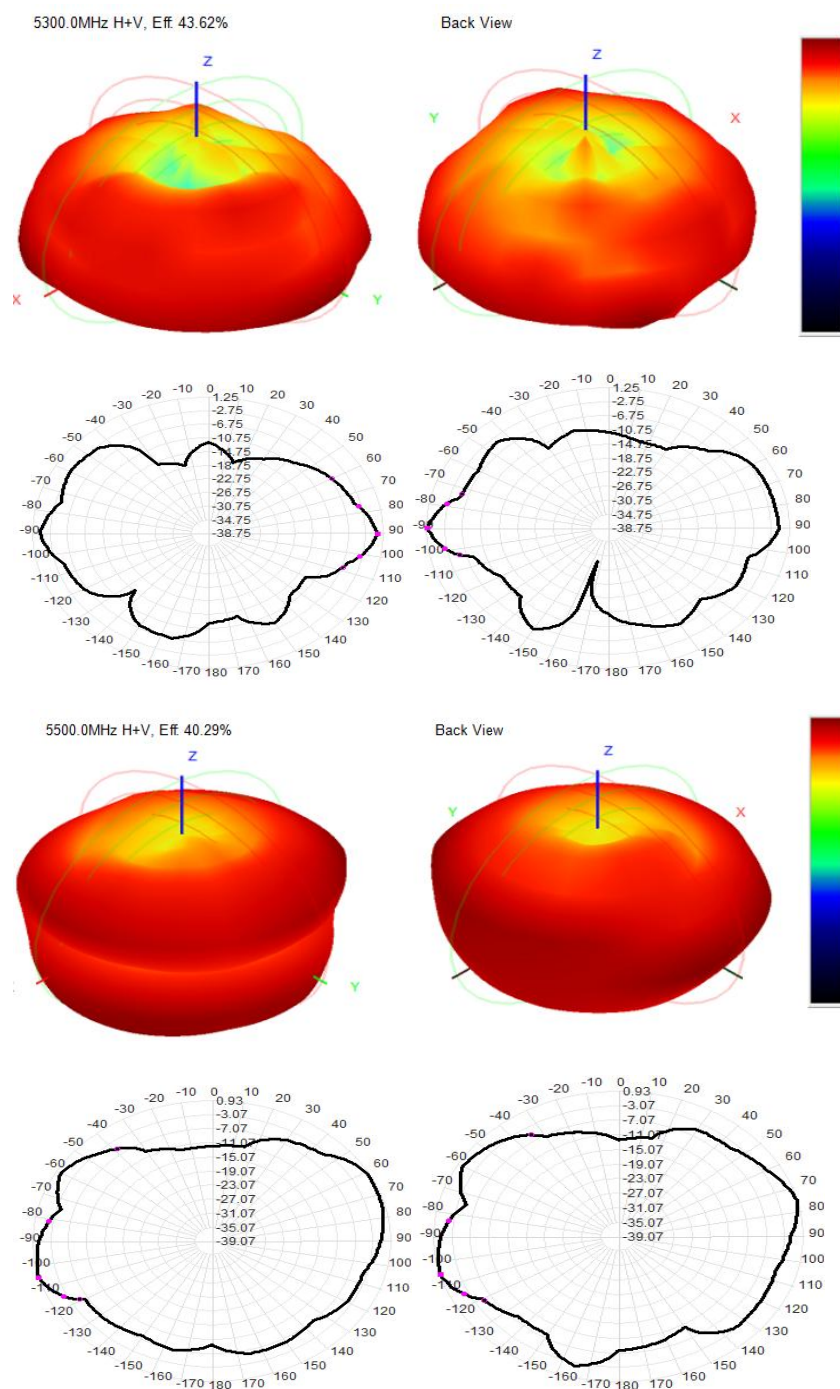
Gain&Efficiency			
frequency (Hz)	gain (dB)	efficiency (dB)	efficiency
5050M	1.12	-3.47	43.59%
5100M	1.62	-3.43	44.39%
5150M	1.44	-3.86	43.58%
5200M	1.36	-3.17	45.15%
5250M	1.51	-2.97	42.76%
5300M	1.25	-3.13	43.62%
5350M	1.63	-3.55	45.27%
5400M	1.35	-3.02	41.79%
5450M	1.47	-3.34	40.63%
5500M	0.93	-3.43	40.29%
5550M	1.58	-3.24	43.35%
5600M	1.57	-3.61	45.79%
5650M	1.37	-3.88	46.12%
5700M	1.8	-3.79	46.75%
5750M	1.74	-4.1	47.19%
5800M	1.64	-4.22	45.17%
5850M	1.12	-4.31	44.11%

5050.0MHz H+V, Eff. 43.59%

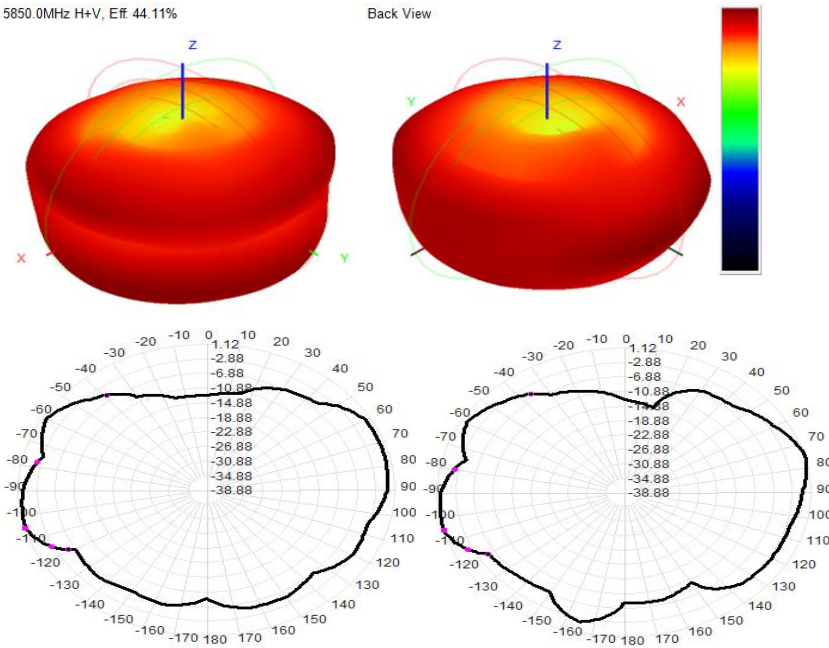
Back View



Shenzhen Aihui Technology Co. , Ltd.



Address: 402TEL: 0755-23203435fax: 0755-23203435, Block C, Juxin Science and Technology Industrial Park, Nanchang community, xixiang, Baoan District, Shenzhen



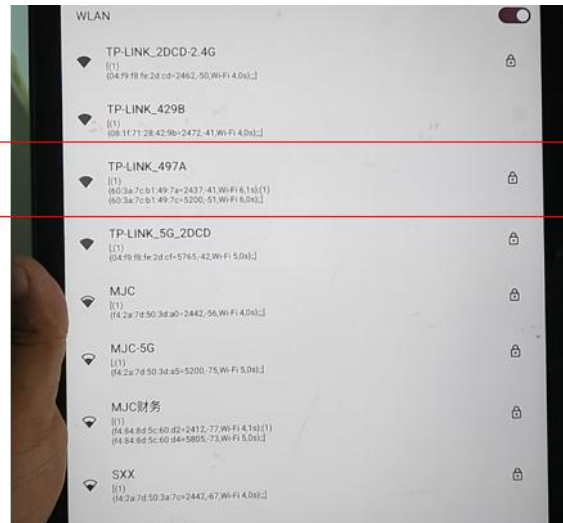
5.3.Active antenna test data

Frequency Band	2.4WiFi-B模			G模		
channel	L	M	H	L	M	H
TRP	13.59	13.54	13.49	12.14	12.03	12.19
TIS			-81.66			-68.48
Frequency Band	N模			5.8WiFi-A模		
channel	L	M	H	L	M	H
TRP	11.39	11.41	11.06	12.19	12.46	12.36
TIS			-68.08			-71.91

6.Real-time WiFi /GPSresults

Shenzhen Aihui Technology Co. , Ltd.

10 meters away
from the
router, full
signal
strength,
internet
connection is
normal.



GPS satellite
search test on
the roof of our
building: more
than 4
satellites with
a signal
strength of 40,
time to first
fix:ute.
Weather: Clear.



7.Schematic diagram of antenna assembly

Address: 402TEL: 0755-23203435fax: 0755-23203435, Block C, Juxin Science and
Technology Industrial Park, Nanchang community, xixiang, Baoan District, Shenzhen



8. Antenna environment handling

Address: 402TEL: 0755-23203435fax: 0755-23203435, Block C, Juxin Science and Technology Industrial Park, Nanchang community, xixiang, Baoan District, Shenzhen

Prototype environment handling

9.Antenna mass production index

When the antenna is mass-produced, the standing wave ratio is taken as the mass-produced test standard. Based on the differences of the project itself, the following criteria are given:	Standard for volume production
680MHZ-2700Mhz	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5

10. Structural drawings

