

Measurement of Antenna for i24 Project

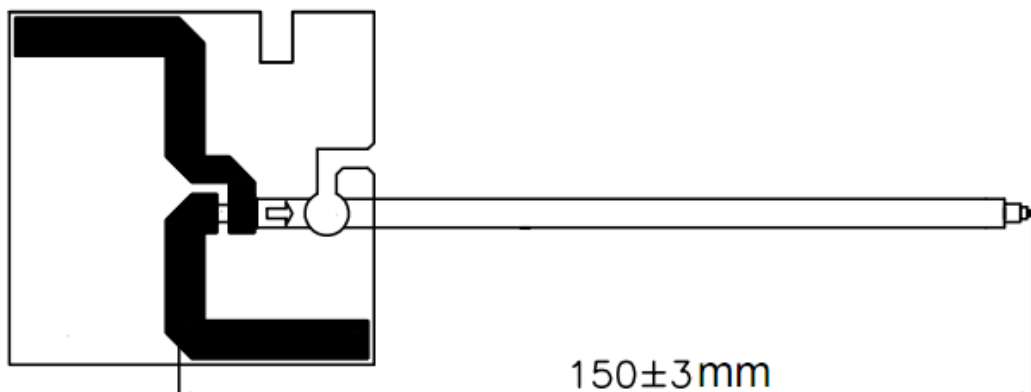
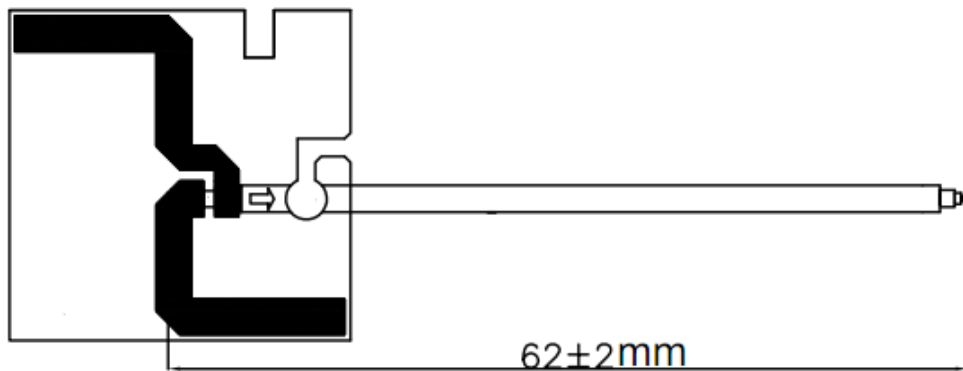
Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

ADD:6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan

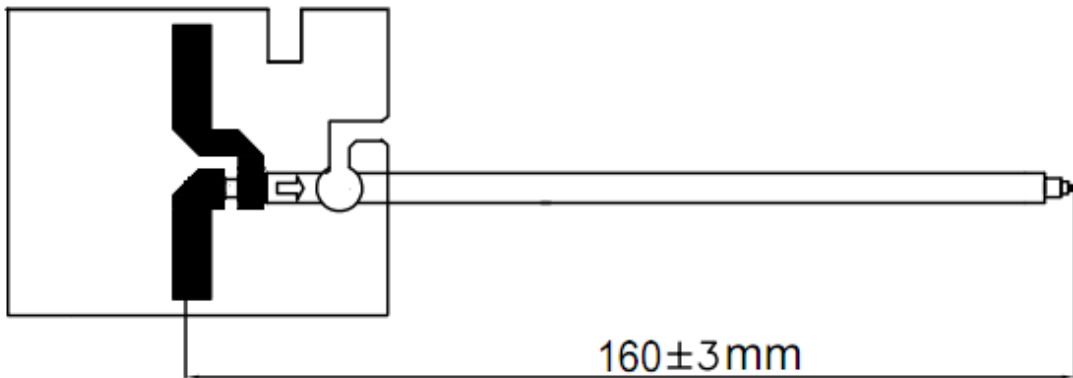
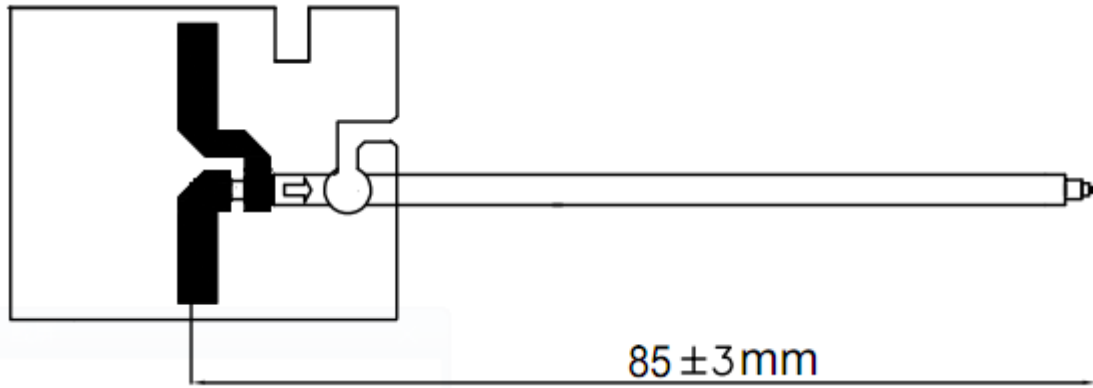
District, Shenzhen, China. 518052

1. Antenna Appearance:

2. 4GHz:



5GHz:



2. Electrical performance test results at normal temperature

a) 2. 4G Antenna

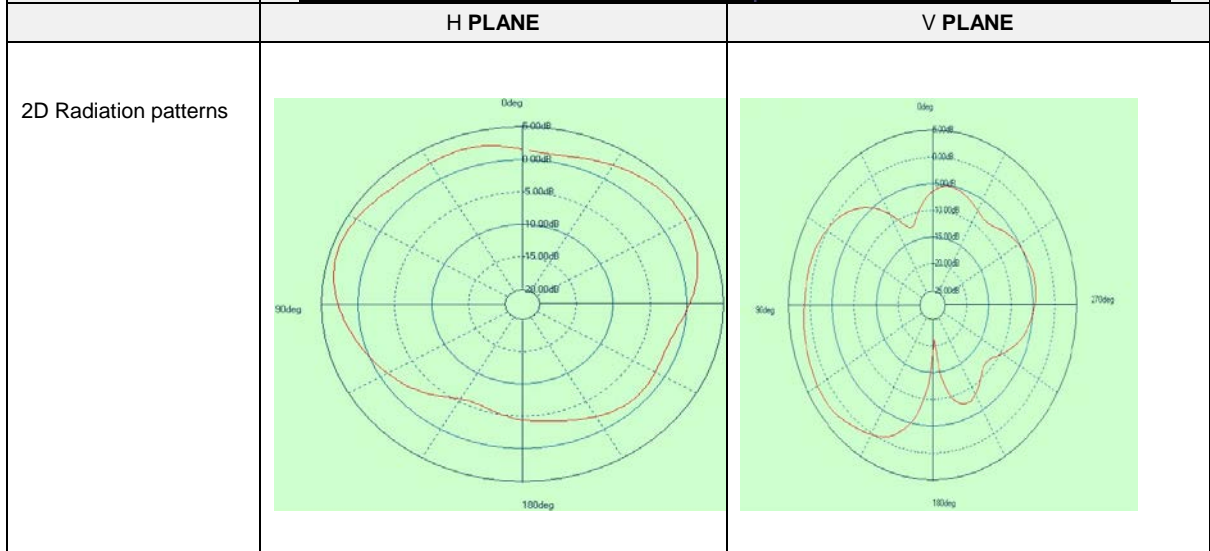
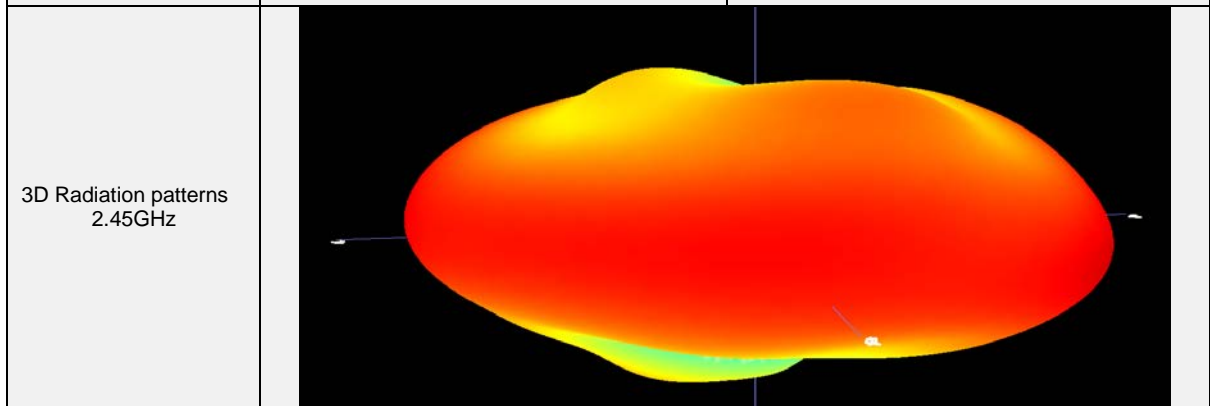
No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2480	2400-2480		OK
2	Gain	dBi	3.14	2400	2.76	OK
				2450	2.84	OK
				2480	3.14	OK
4	Return loss	dB	≤ -10	2400	-15	OK
				2450	-14	OK
				2480	-13	OK

B) 5G Antenna

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	4.76	5150	4.05	OK
				5500	4.27	OK
				5850	4.76	OK
3	Return loss	dB	≤ -10	5150	-17	OK
				5500	-13	OK
				5850	-15	OK

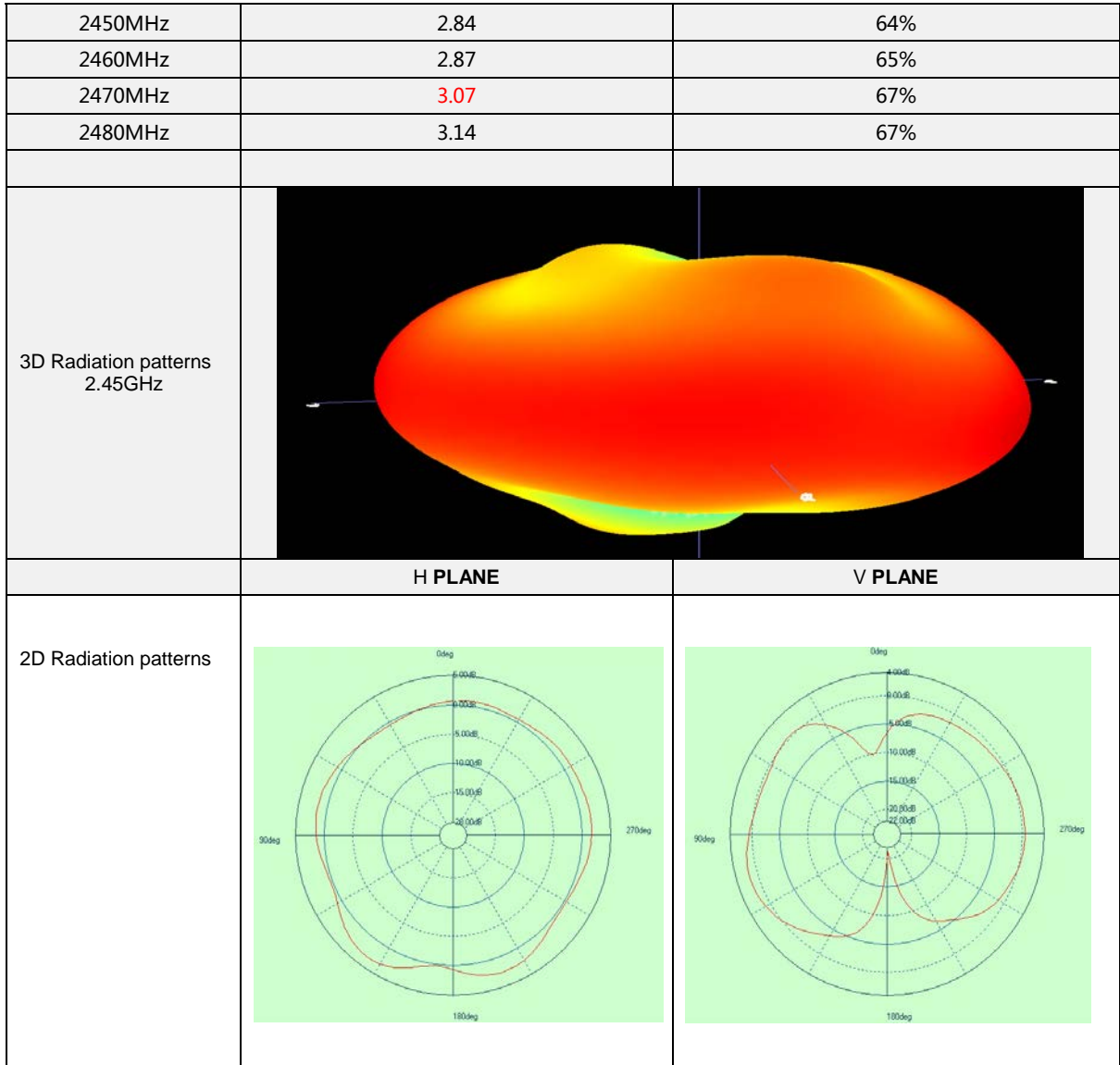
Directional diagram for 2.4GHz ANT1

EUT		
Remark		
Frequency	E Total. dB(dBi)	Efficiency()
2400MHz	2.75	68%
2410MHz	2.61	67%
2420MHz	2.77	69%
2430MHz	2.83	71%
2440MHz	2.71	68%
2450MHz	2.67	67%
2460MHz	2.78	69%
2470MHz	2.86	70%
2480MHz	2.86	71%



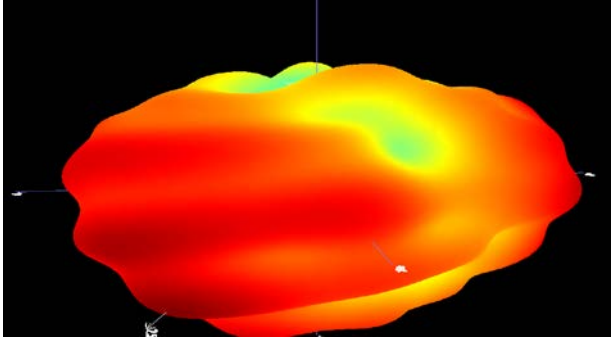
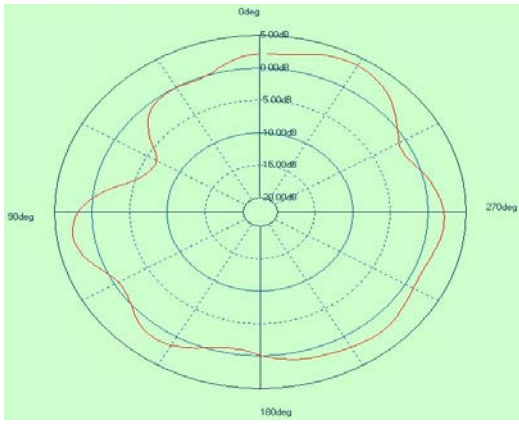
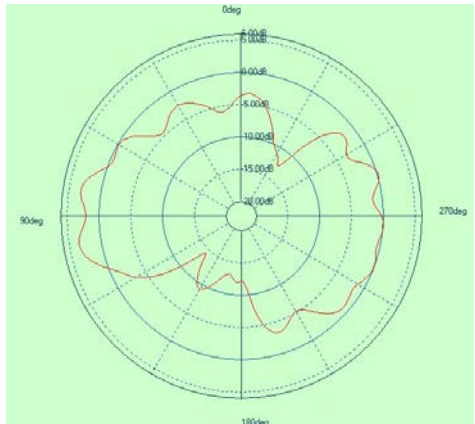
Directional diagram for 2.4GHz ANT2

EUT		
Remark		
Frequency	E Total. dB(dBi)	Efficiency()
2400MHz	2.76	66%
2410MHz	2.47	64%
2420MHz	2.62	66%
2430MHz	3.03	67%
2440MHz	3.00	65%



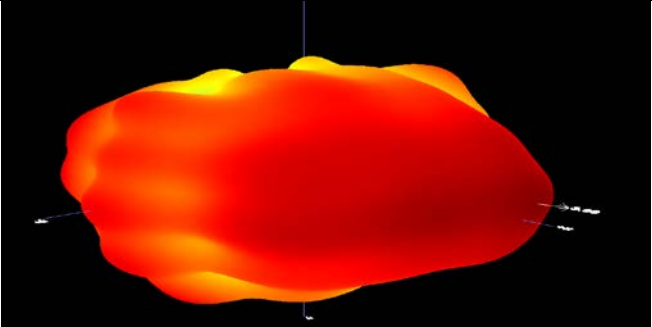
Directional diagram for 5GHz ANT1

Frequency	E Total. dB(dBi)	Efficiency()
5100MHz	4.72	65%
5150MHz	4.05	62%
5200MHz	3.98	63%
5250MHz	4.10	66%
5300MHz	3.74	67%
5350MHz	3.92	65%
5400MHz	3.97	67%
5450MHz	3.64	67%
5500MHz	3.64	66%
5550MHz	3.72	65%
5600MHz	3.80	68%
5650MHz	4.39	64%
5700MHz	4.23	65%
5750MHz	4.26	63%

5800MHz	4.23	66%
5850MHz	4.21	65%
		
3D Radiation patterns		
	H PLANE	V PLANE
2D Radiation patterns		

Directional diagram for 5GHz ANT2

Frequency	E Total. dB(dBi)	Efficiency()
5100MHz	4.22	65%
5150MHz	3.98	62%
5200MHz	3.74	65%
5250MHz	3.55	66%
5300MHz	3.71	64%
5350MHz	3.67	67%
5400MHz	4.03	67%
5450MHz	4.11	67%
5500MHz	4.27	68%
5550MHz	4.20	68%
5600MHz	4.17	68%
5650MHz	4.48	66%
5700MHz	4.44	64%
5750MHz	4.54	63%
5800MHz	4.69	66%
5850MHz	4.76	64%

<p>3D Radiation patterns</p>		
	<p>H PLANE</p>	<p>V PLANE</p>
<p>2D Radiation patterns</p>	