Measurement of Antenna for 04 Project

Manufacture：SHENZHEN TENDA TECHNOLOGY CO.,LTD.

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1. Antenna Appearance:

2. Electrical performance test results at normal temperature

5G Antenna

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	11.86	5150	10.32	OK
				5250	11.17	OK
				5350	11.51	OK
				5450	11.81	OK
				5500	11.82	OK
				5650	11.86	OK
				5750	11.49	OK
				5850	11.29	OK
3	Return loss	dB	≤-10	5150	-25	OK
				5500	-12	OK
				5850	-15	OK

Data		Direction V
Frequency	E Total. dB(dBi)	Efficiency( )
4900MHz	9.86	64%
4950MHz	9.86	67%
5000MHz	9.27	65%
5050MHz	9.59	71%
5100MHz	9.9	73%
5150MHz	10.32	70%
5200MHz	10.58	70%
5250MHz	11.17	71%
5300MHz	11.48	72%
5350MHz	11.51	71%
5400MHz	11.61	72%
5450MHz	11.81	74%
5500MHz	11.82	73%
5550MHz	11.78	73%
5600MHz	11.63	71%
5650MHz	11.86	75%
5700MHz	11.68	74%
5750MHz	11.49	74%
5800MHz	11.44	75%
5850MHz	11.29	77%
5900MHz	10.91	73%
5950MHz	10.75	72%
6000MHz	10.6	70%

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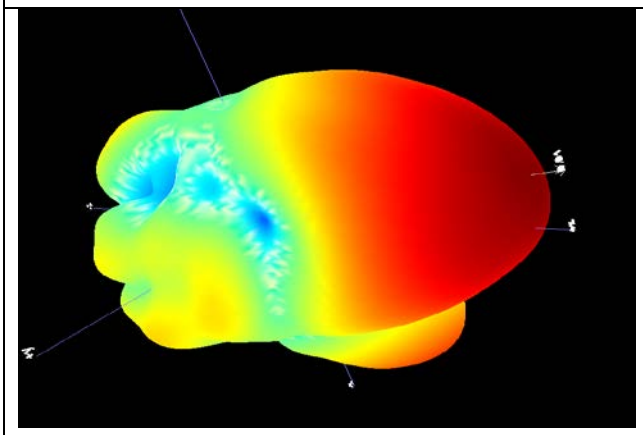
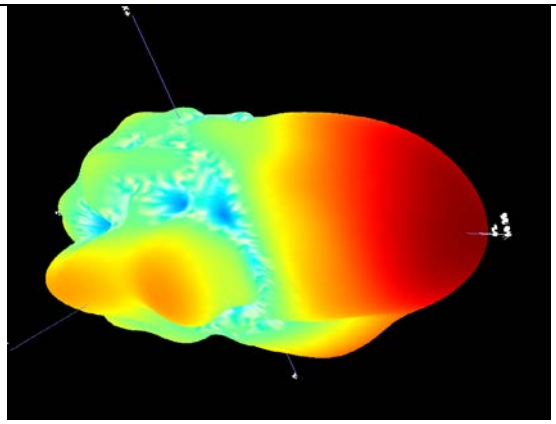
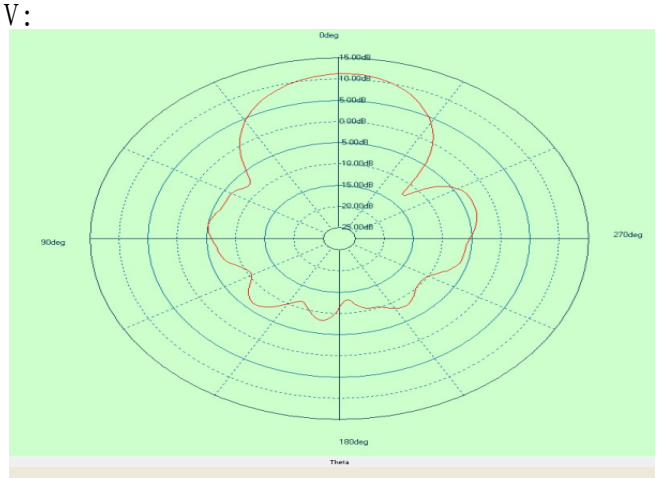
For 5150-5250MHz for 30degrees from the horizon		
Frequency	Gain(dBi)	Efficiency
5200MHz	5	98%

3D

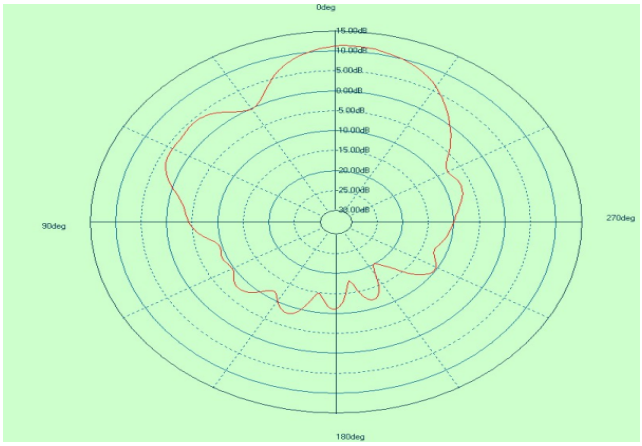
5.15GHz	5.85GHz
	

2D

V:



H:

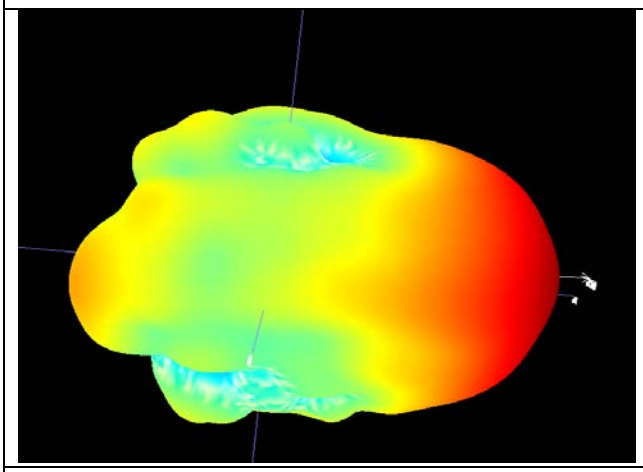


Data		Direction H
Frequency	E Total. dB(dBi)	Efficiency( )
4900MHz	8.65	60%
4950MHz	9.04	65%
5000MHz	9.03	64%
5050MHz	9.49	71%
5100MHz	9.61	72%
5150MHz	9.74	69%
5200MHz	10.1	70%
5250MHz	10.67	71%
5300MHz	11.1	73%
5350MHz	11.17	71%
5400MHz	11.23	72%
5450MHz	11.35	74%
5500MHz	11.3	72%

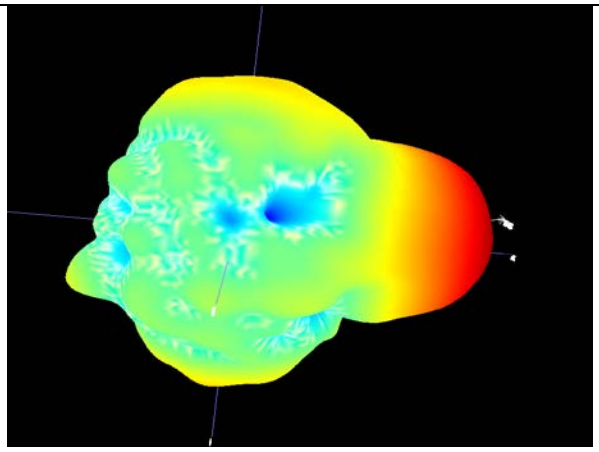
5550MHz	11.25	73%
5600MHz	10.98	70%
5650MHz	11.25	75%
5700MHz	10.99	73%
5750MHz	10.86	73%
5800MHz	10.98	74%
5850MHz	10.98	75%
5900MHz	10.65	72%
5950MHz	10.57	71%
6000MHz	10.48	70%

3D

5.15GHz

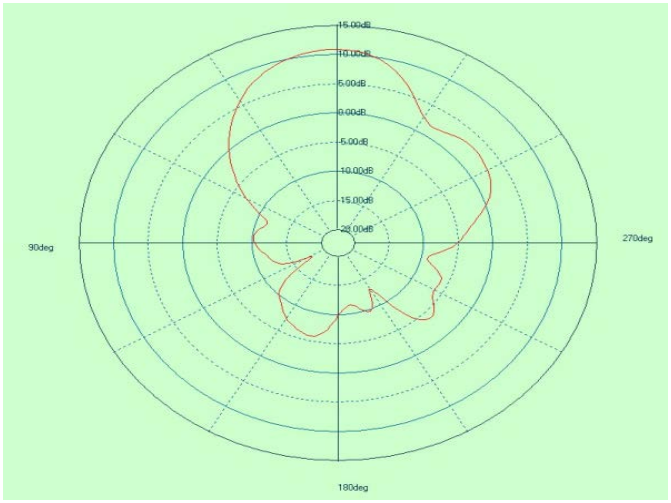


5.85GHz



2D

V:



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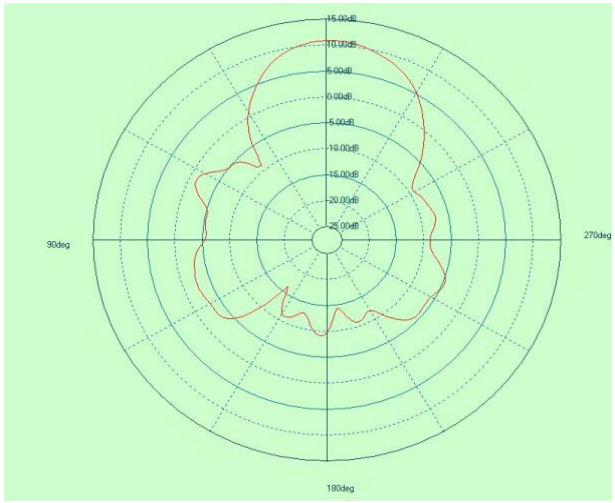

The maximum antenna gain at any elevation angle above 30 degrees as measured from the horizon is 5dBi.