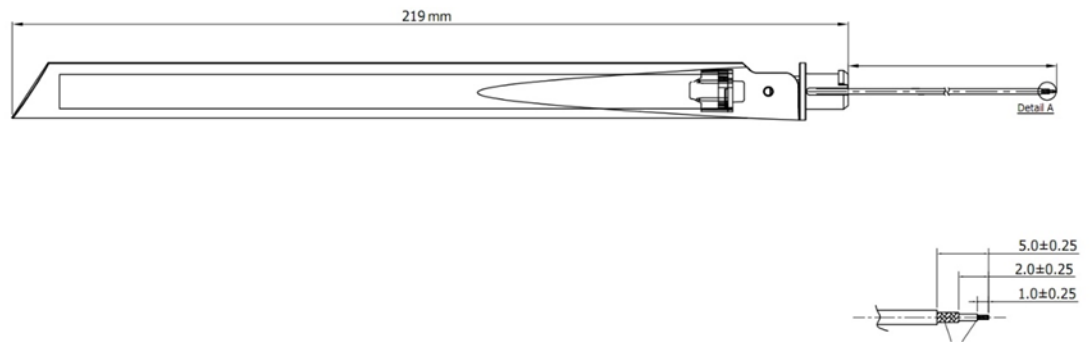


Measurement of Antenna for RX27 Pro Project

Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

1. Antenna Appearance:



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	2400-2483	2400-2483		OK
2	Gain	dBi	5	2400	4.49	OK
				2450	4.47	OK
				2483	4.64	OK
3	Return loss	dB	≤ -10	2400	-14	OK
				2450	-16	OK
				2483	-14	OK

b) 5G Antenna

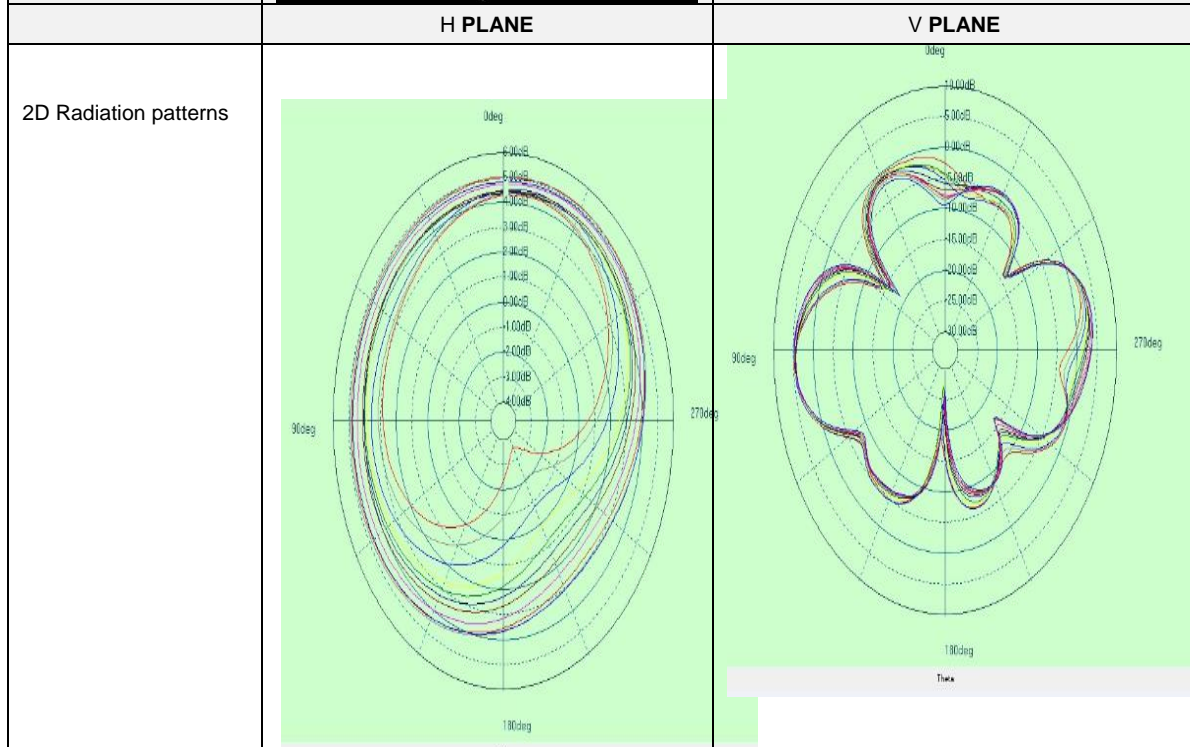
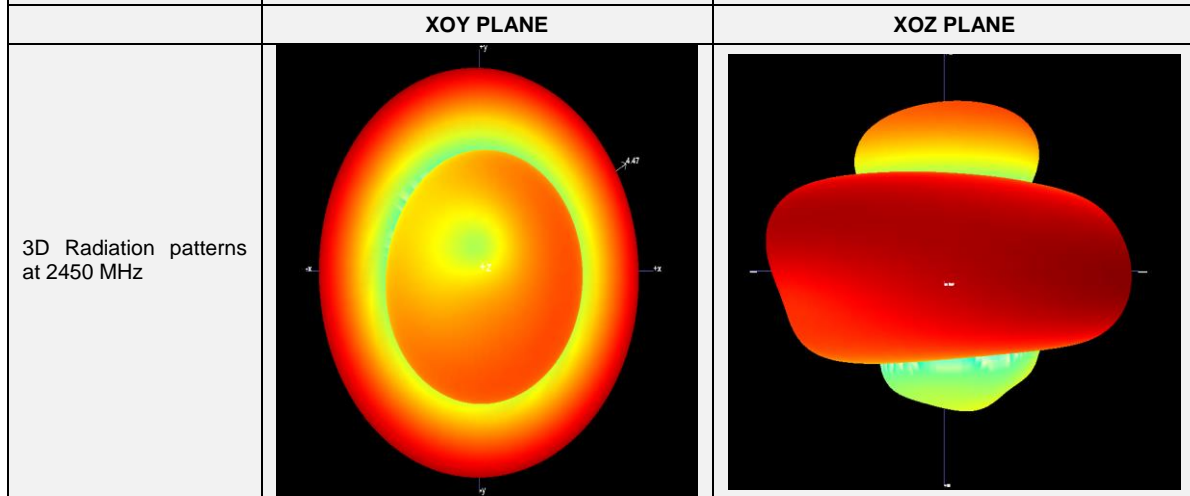
No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	5150-5850	5150-5850		OK
2	Gain	dBi	5	5150	5.93	OK
				5500	5.41	OK
				5850	5.34	OK
3	Return loss	dB	≤ -10	5150	-11	OK
				5500	-17	OK
				5850	-19	OK

c) 6G Antenna

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	6000-7000	6000-7000		OK
2	Gain	dBi	5	6000	4.2	OK
				6500	4.6	OK
				7000	5.1	OK
3	Return loss	dB	≤ -10	6000	-13.1	OK
				6500	-17.8	OK
				7000	-16.0	OK

Directional diagram for 2.4GHz

Frequency	E Total. dB(dB)	Efficiency()
2400MHz	4.49	70%
2410MHz	4.56	73%
2420MHz	4.75	78%
2430MHz	4.83	82%
2440MHz	4.70	84%
2450MHz	4.47	85%
2460MHz	4.58	87%
2470MHz	4.84	92%
2480MHz	4.64	97%
2490MHz	5.09	98%
2500MHz	4.94	96%



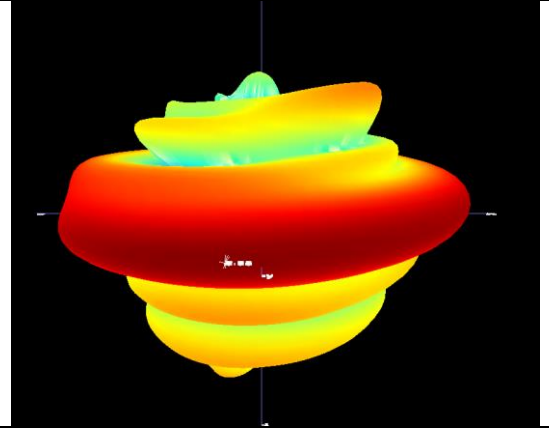
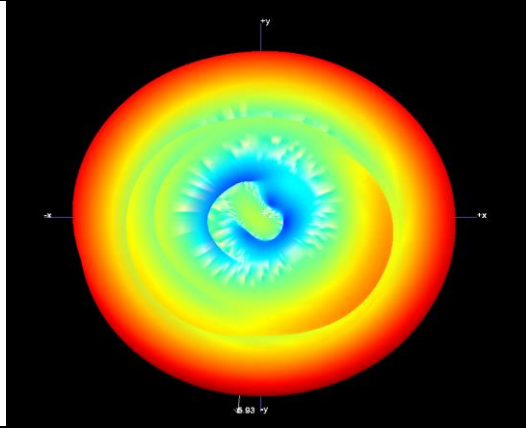
Directional diagram for 5GHz

Frequency	E Total. dB(dBi)	Efficiency()
5150MHz	5.93	77%
5200MHz	5.90	79%
5250MHz	5.86	79%
5300MHz	5.97	80%
5350MHz	6.02	82%
5400MHz	5.85	80%
5450MHz	5.85	81%
5500MHz	5.49	77%
5550MHz	5.41	76%
5600MHz	5.24	74%
5650MHz	4.98	75%
5700MHz	5.12	76%
5750MHz	5.24	77%
5800MHz	4.99	74%
5850MHz	5.34	77%

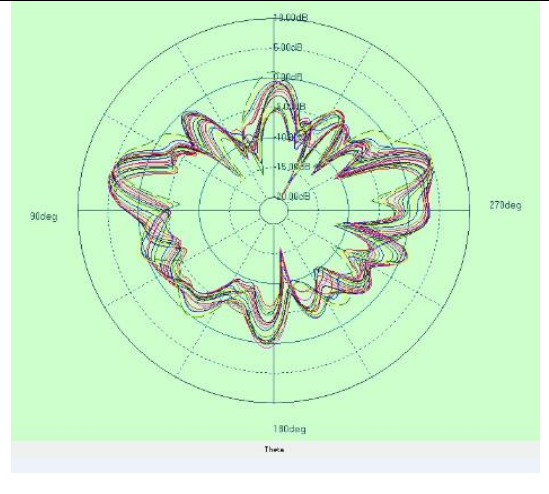
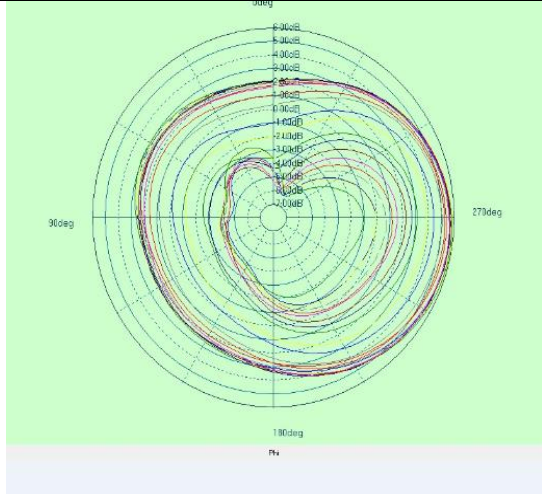
XOY_PLANE

XOZ PLANE

3D Radiation patterns at 5150 MHz



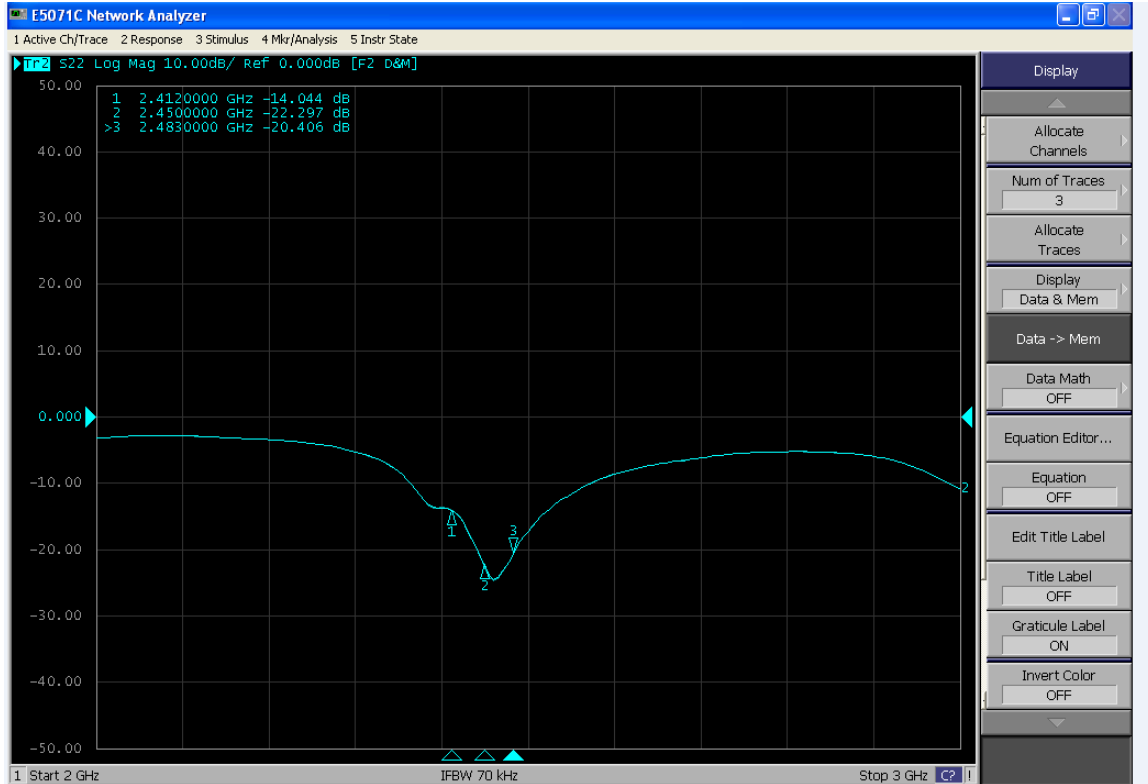
2D Radiation patterns



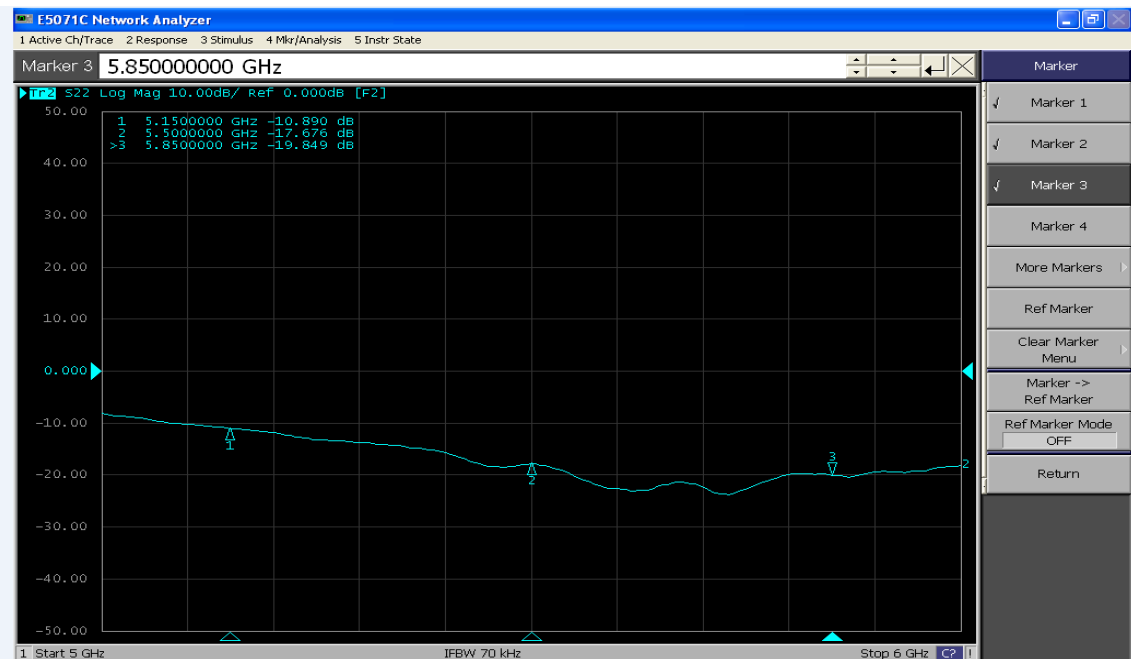
Directional diagram for 6GHz

Frequency	E Total. dB(dBi)	Efficiency()
6000	4.62	70%
6100	4.22	71%
6200	4.85	71%
6300	4.36	72%
6400	4.45	73%
6500	4.59	73%
6600	4.59	74%
6700	5.06	73%
6800	5.13	71%
6900	5.03	72%
7000	5.02	70%
	XOY_PLANE	XOZ PLANE
3D Radiation		
2D Radiation patterns		

S chart 2.4G Return loss test



5G Return loss test



6G Return loss test

