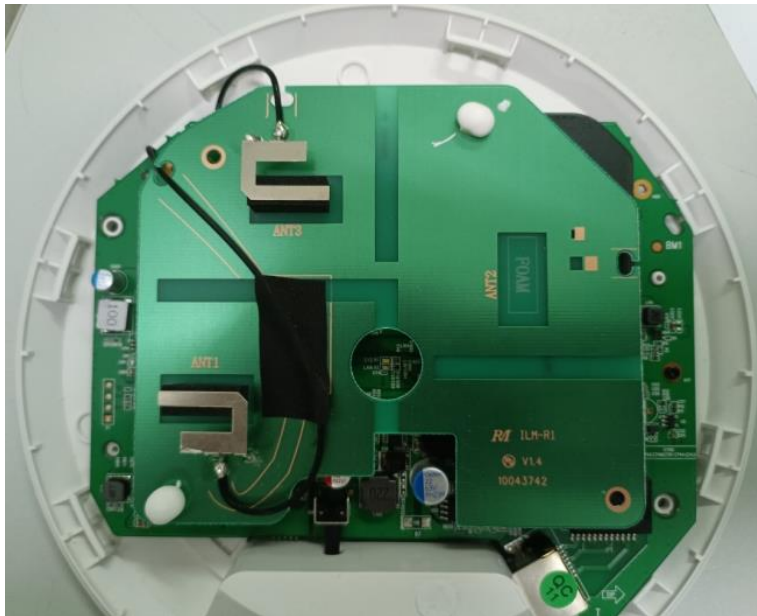


Measurement of Antenna for i27 Project

Manufacture: SHENZHEN TENDA TECHNOLOGY CO., LTD.

1. Antenna Appearance:



2. Electrical performance test results at normal temperature

a) Antenna 1

No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2500/5150-5850	2400-2500/5150-5850		OK
2	Gain	dBi	4	2400	5.35	OK
				2450	5.03	OK
				2500	5.17	OK
				5150	4.76	OK
				5500	5.26	OK
				5850	4.49	OK
3	Isolation	dB	≤ -15	2400	-24	OK
				2450	-23	OK
				2500	-22	OK
				5150	-22	OK
				5500	-25	OK
				5850	-26	OK
4	Return loss	dB	≤ -10	2400	-13	OK
				2450	-15	OK
				2500	-14	OK
				5150	-11	OK
				5500	-15	OK
				5850	-13	OK

B) Antenna 3

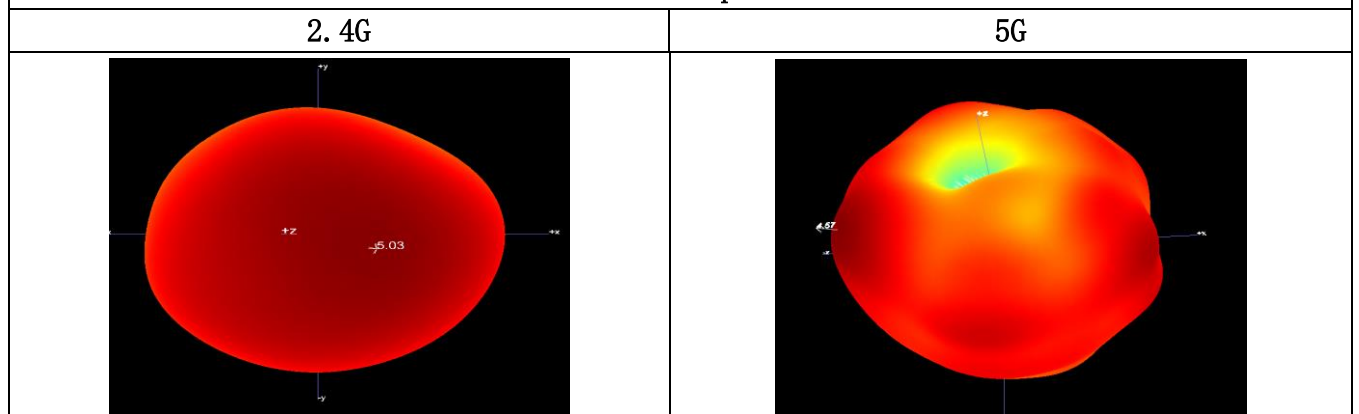
No	Test Item	Unit	Demand Performance	Test Result		Judgement
1	Frequency Range	MHz	2400-2500/5150-5850	2400-2500/5150-5850		OK
2	Gain	dBi	4	2400	4.27	OK
				2450	4.34	OK
				2500	4.19	OK
				5150	4.89	OK
				5500	4.88	OK
				5850	4.58	OK
3	Isolation	dB	≤ -15	2400	-23	OK
				2450	-22	OK
				2500	-21	OK
				5150	-22	OK
				5500	-25	OK
				5850	-26	OK

4	Return loss	dB	≤ -10	2400	-12	OK
				2450	-15	OK
				2500	-15	OK
				5150	-11	OK
				5500	-17	OK
				5850	-12	OK

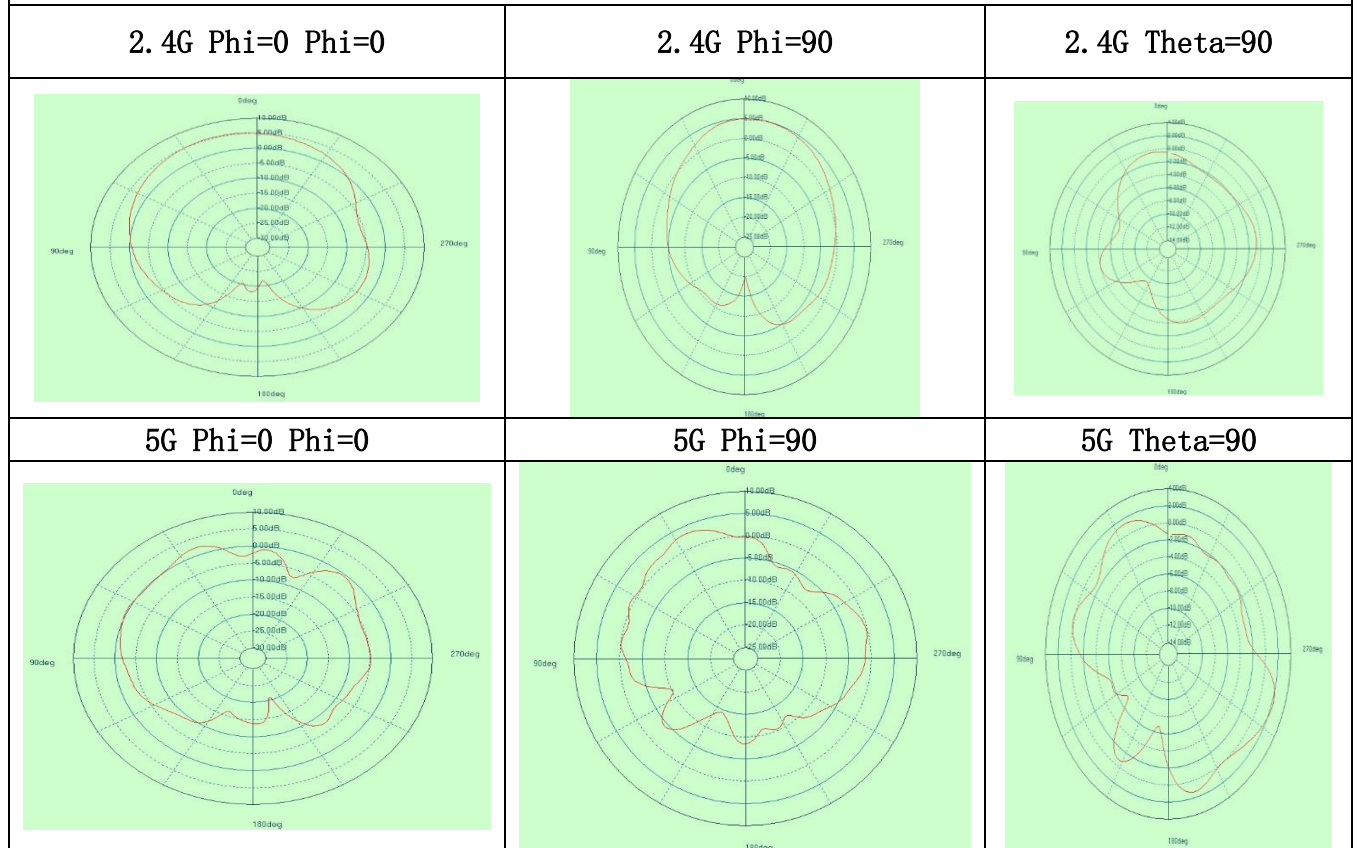
3. Radiation parameter test
Antenna 1

Frequency	E Total. dB(dBi)	Efficiency()
2410MHz	5.35	80%
2450MHz	5.03	74%
2490MHz	5.17	70%
5150MHz	4.76	65%
5500MHz	5.26	74%
5850MHz	4.49	67%

3D Radiation patterns



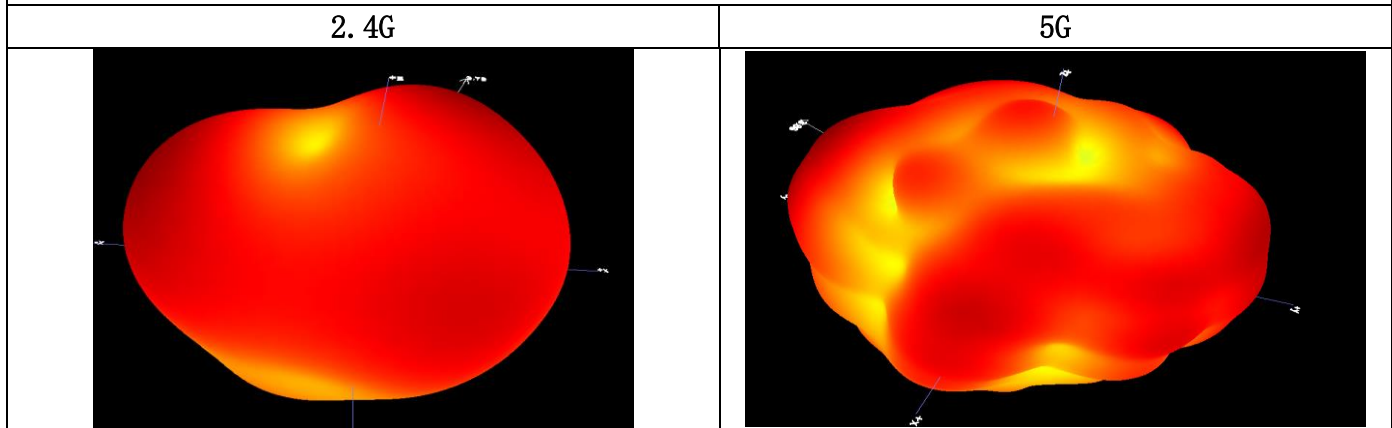
2D Radiation patterns



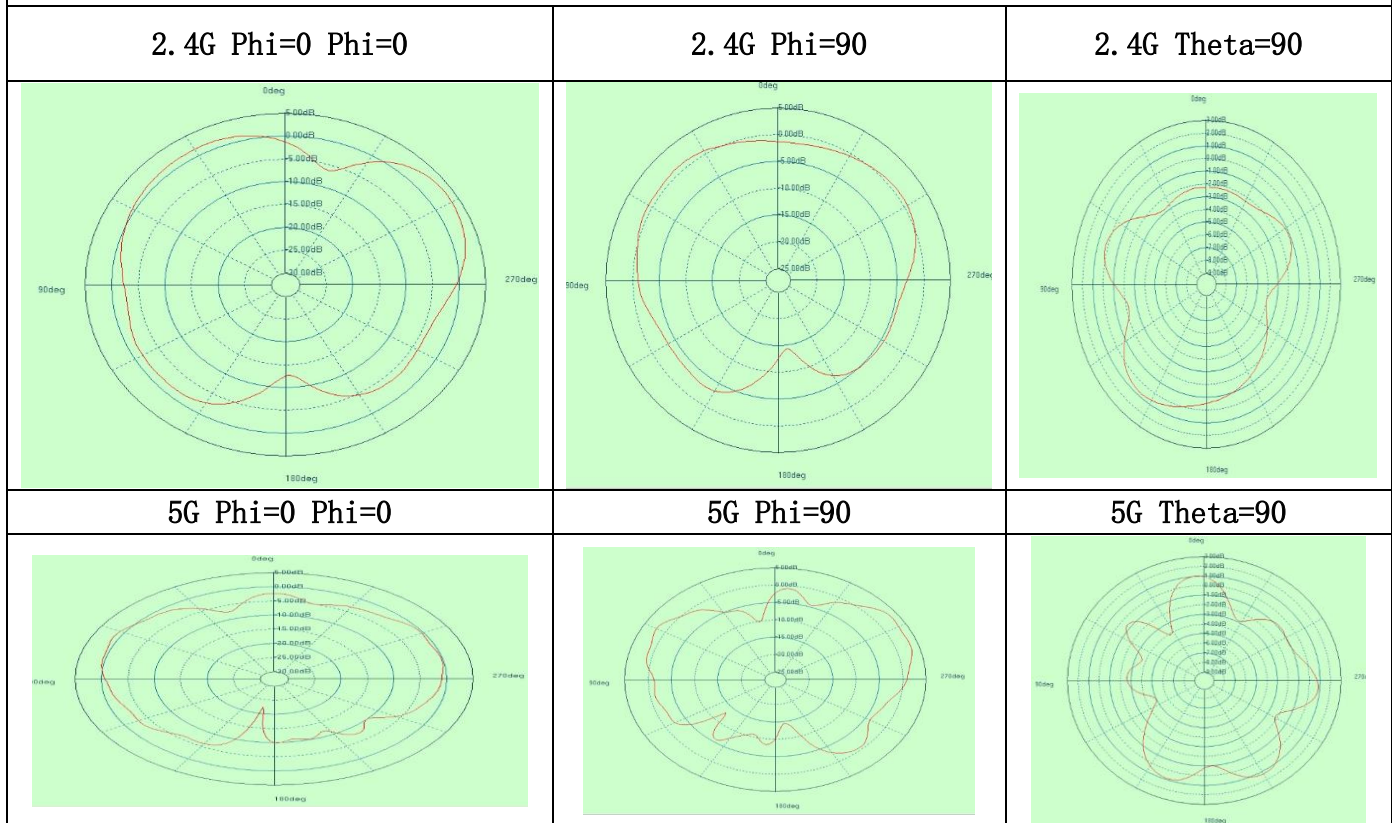
Antenna 3:

Frequency	E Total. dB(dBi)	Efficiency()
2410MHz	4.27	80%
2450MHz	4.34	79%
2490MHz	4.19	77%
5150MHz	4.89	72%
5500MHz	4.88	69%
5850MHz	4.58	70%

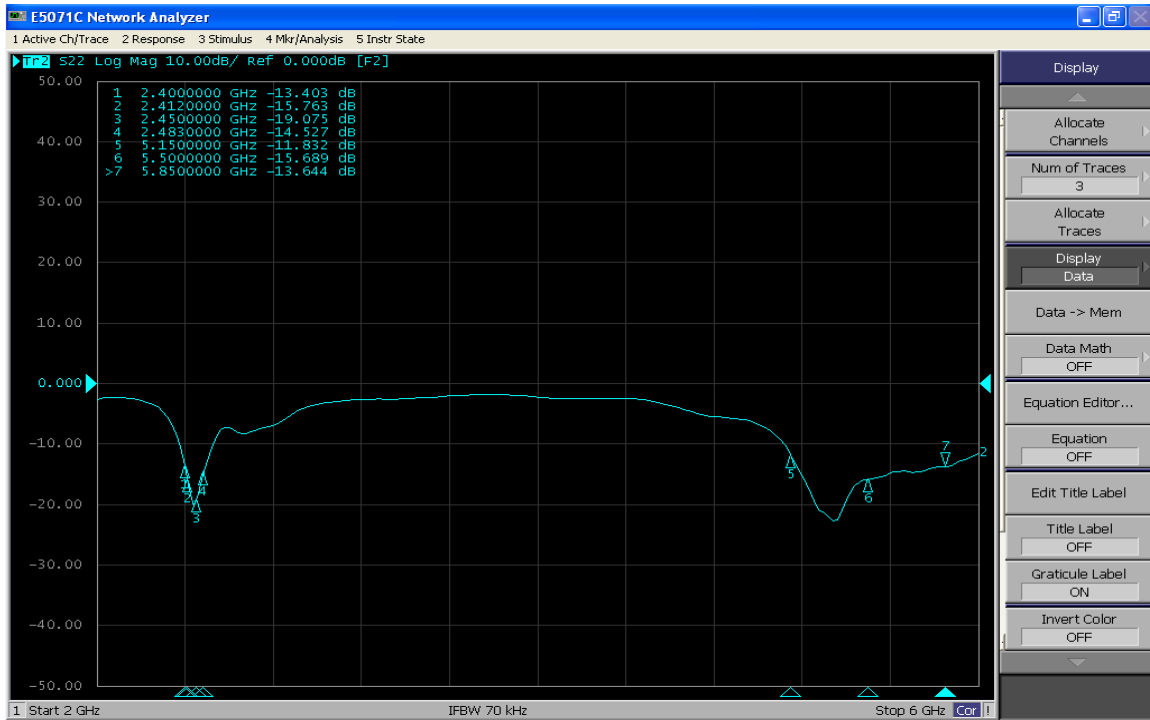
3D Radiation patterns



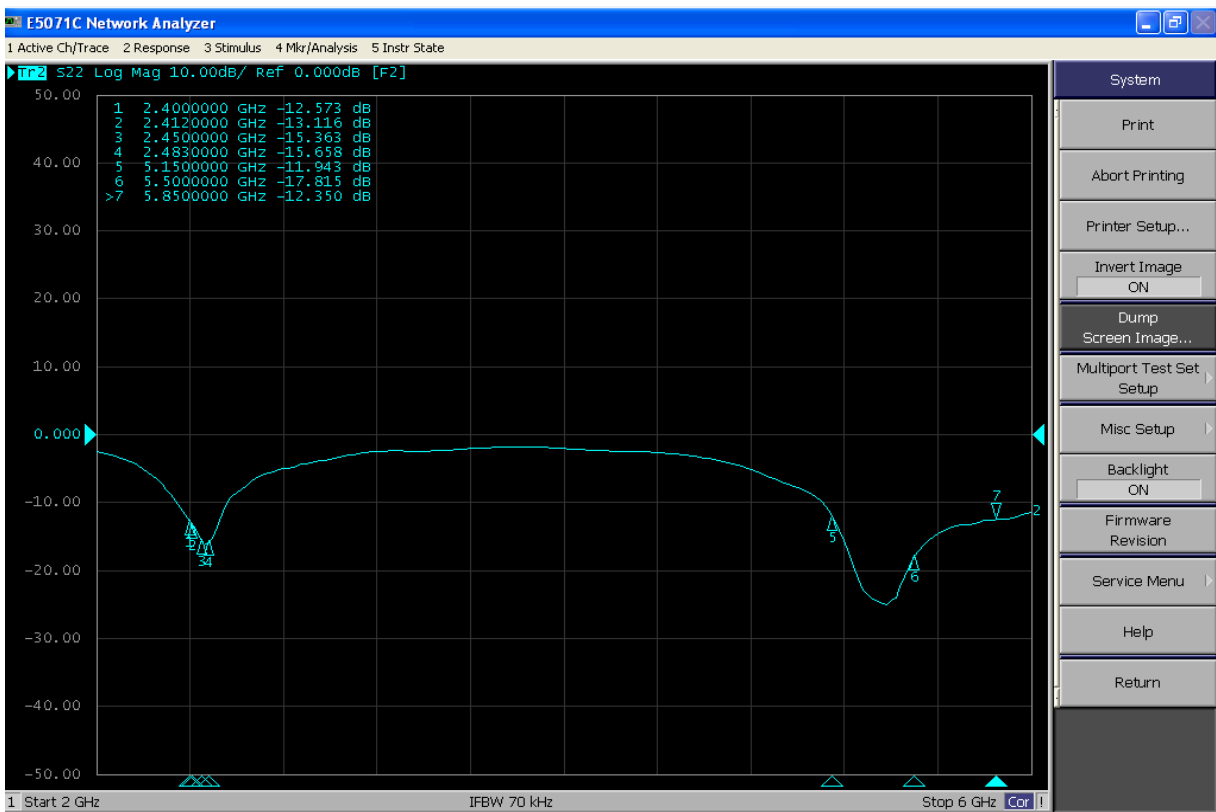
2D Radiation patterns



Antenna1 loss test



Antenna3 loss test



Antenna1/3 Isolation

