

Antenna Specification

Customer: apical Technology

Project Name: G400

Report Number: SZ25354IB77/SZ25354IA67-2

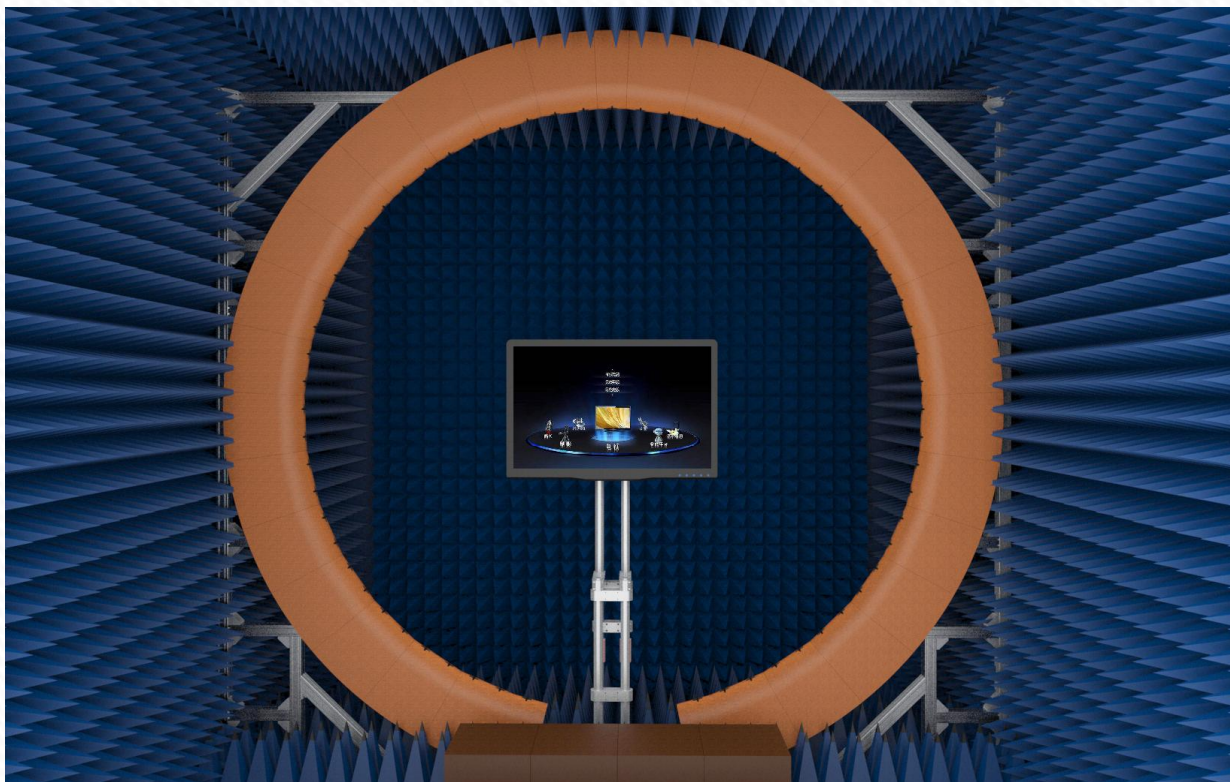
Manufacturer: Sunnyway Technology(CHINA)

Address: Floor 6, Building 5, Nam Tai Inno Park, Guangming District,
Shenzhen

Report version: 2025.10.29

1. Resume.....	
2. Project Overview.....	
3. Company and Test Environment Introduction.....	
4. Matching circuit.....	
5. WiFi antenna-related data.....	
6. Complete machine environmental handling.....	
7. Summary	

Prototype status	Debugging machine	Project Prototype Diagram:
Product Type	doorbell	
Number of antennas	WIFIAntenna	
Antenna frequency band	WIFI 802.11 /b/g/n/a/an	
Structural form	FPC	
Environmental management	No changes made	
Matching circuit	No changes made	

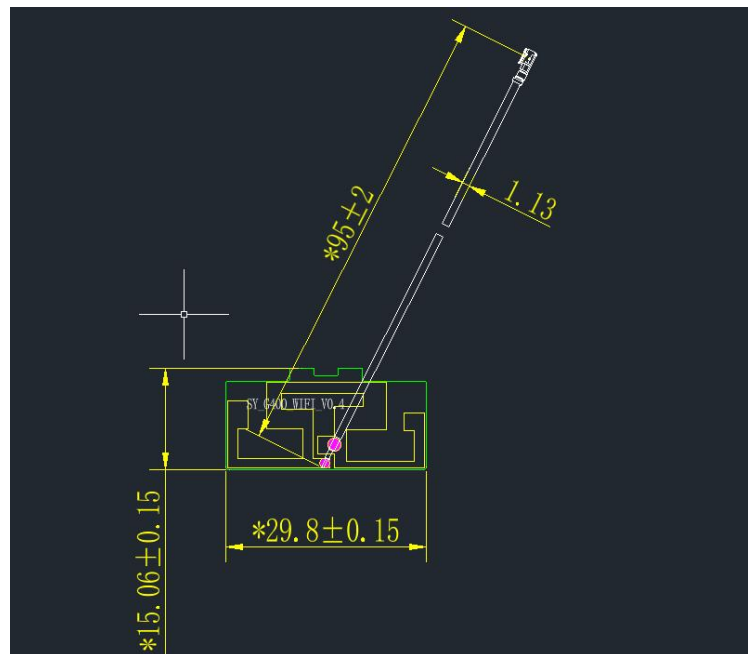


The industry's top 64 sensors OTA
chamber Frequency range: 400MHz-11GHz
Device Llimitation: 2M
Load-bearing limitation:100KG

Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester (SP9500-CTS)	3	1	1	1
R&S Tester (high configuration CMW500)	6	3	2	1
Japan Anritsu Tester (Dual Channel 8820)	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester (8960)	9	4	4	--
Agilent Network Analyzer (E5062A)	7	3	3	1
Agilent Network Analyzer (E5071C 8.5GHZ)	11	5	5	1
Agilent Network Analyzer (E5071B 8.5GHZ)	7	3	3	1
R&S Network Analyzer (ZND)	9	4	4	1
R&S Network Analyzer (ZVB)	3	1	1	1
OTA head hand / ear hand / arm hand	5	2	2	1
GPS/WIFI active test equipment	5	2	2	1

Antenna matching has
not been changed

WI FI antenna/Antenna size

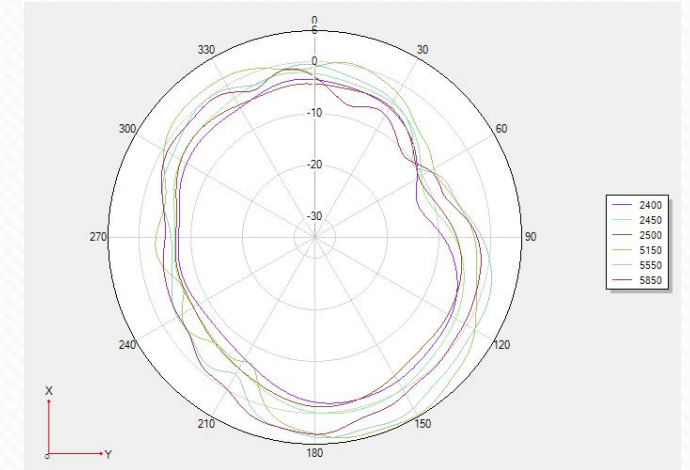
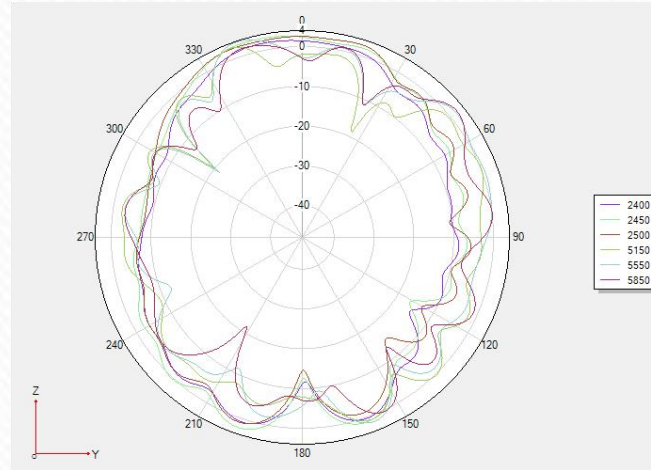
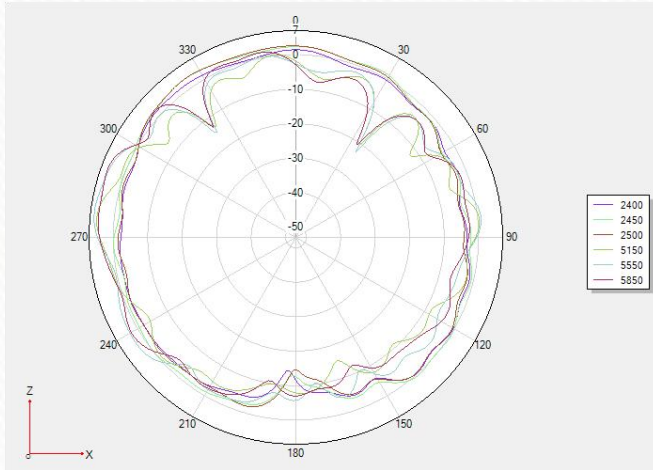


WI FI Antenna type: FPC

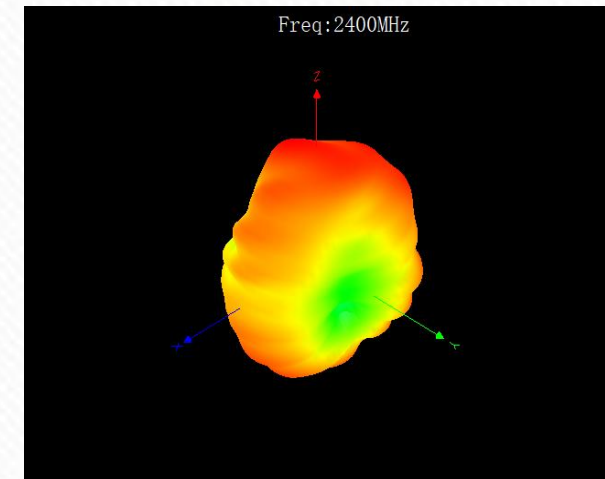
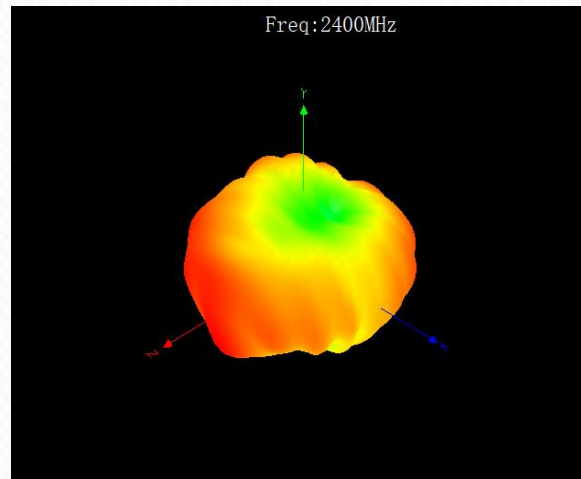
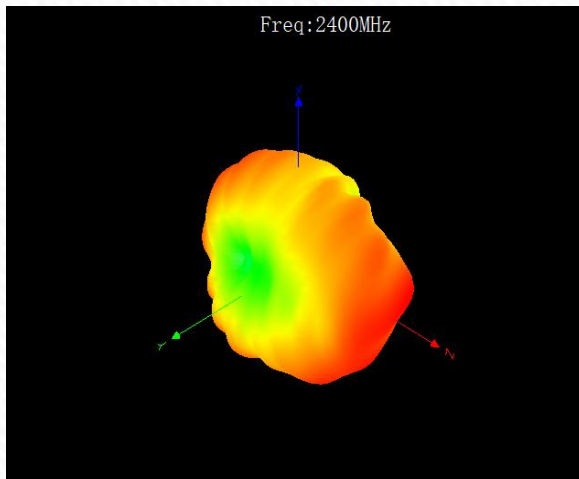
WI FI Antenna model: SZ25354IB77



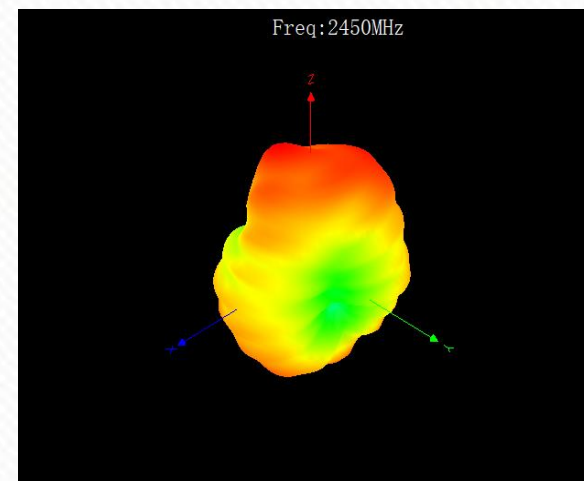
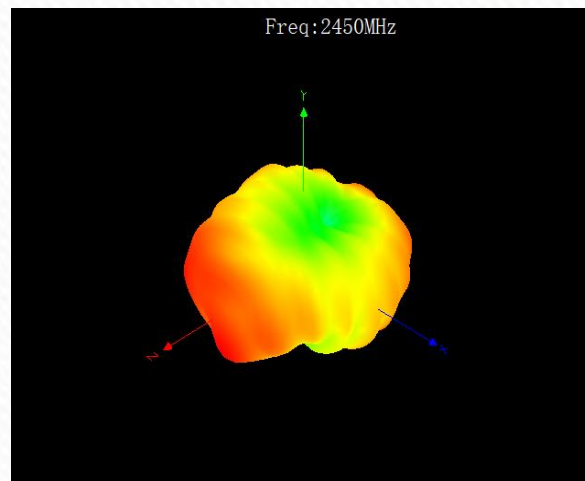
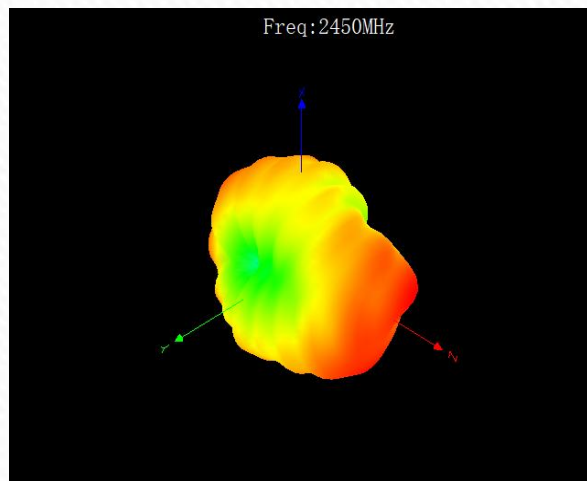
Frequency/Mhz	MaxGain/dBi	Efficiency / %	Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.12	45.1	5390	4.97	52.62
2410	1.56	46.38	5410	5.1	54.8
2420	0.91	45.24	5430	5.01	54.62
2430	1.34	46.48	5450	5.17	56.47
2440	1.83	47.89	5470	5.12	55.35
2450	2.49	48.68	5490	5.2	56.28
2460	2.28	47.98	5510	5.29	57.41
2470	2.3	47.48	5530	5.18	55.91
2480	2.57	47.38	5550	5.33	56.85
2490	2.47	46.41	5570	5.53	57.04
2500	2.61	45.36	5590	5.57	56.28
			5610	5.45	52.98
5150	5.44	54.8	5630	5.56	54.98
5170	5.45	54.98	5650	5.31	53.34
5190	5.54	55.35	5670	5.17	53.52
5210	5.46	53.7	5690	5.01	51.56
5230	5.35	52.27	5710	4.94	51.56
5250	5.49	54.25	5730	4.77	49.47
5270	5.36	52.98	5750	4.77	49.13
5290	5.12	51.74	5770	4.38	46.29
5310	5.04	51.21	5790	4.36	47.78
5330	5.02	53.16	5810	4.31	46.78
5350	4.81	52.62	5830	4.24	47.11
5370	5.04	53.89	5850	4.04	45.31



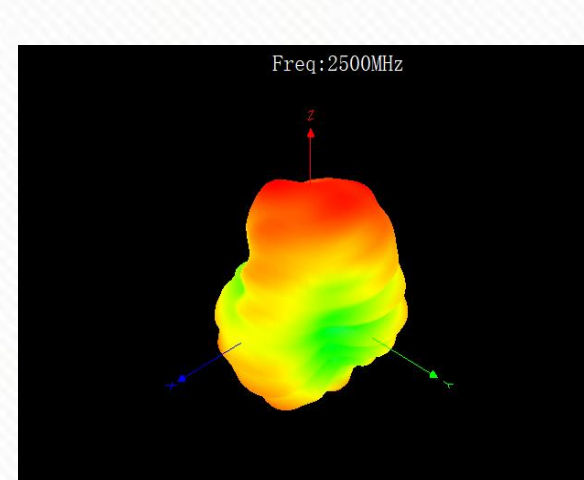
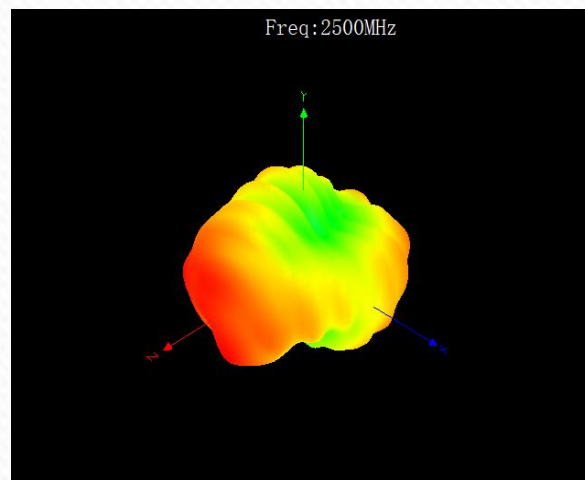
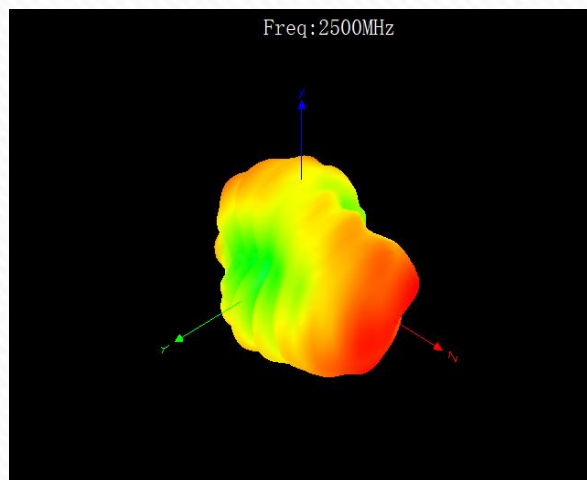
2400MHz



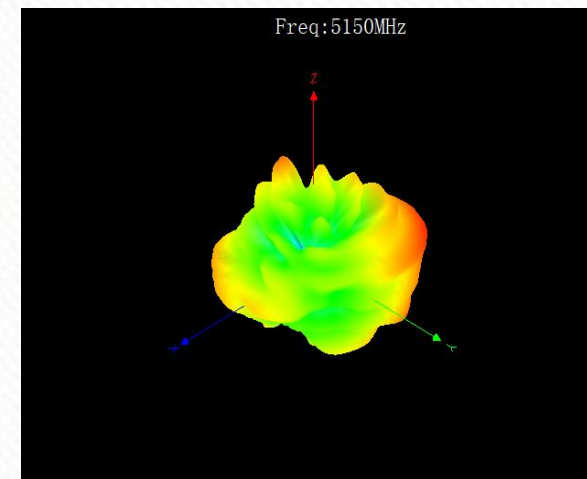
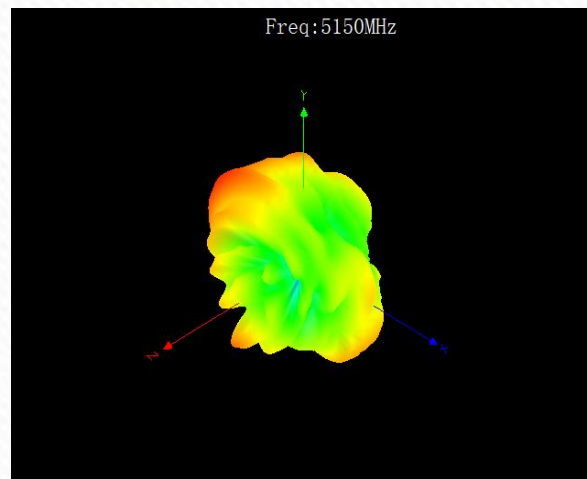
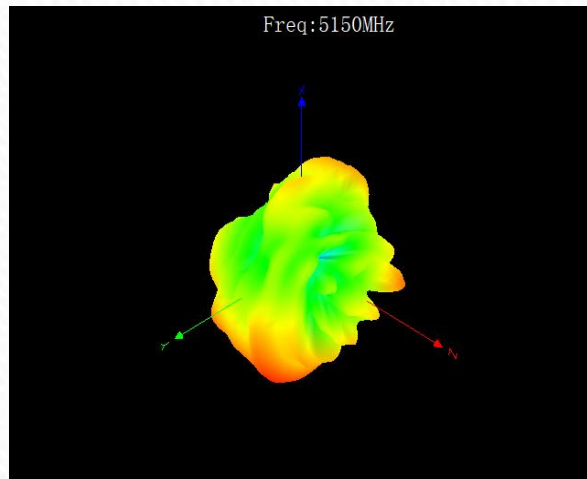
2450MHz



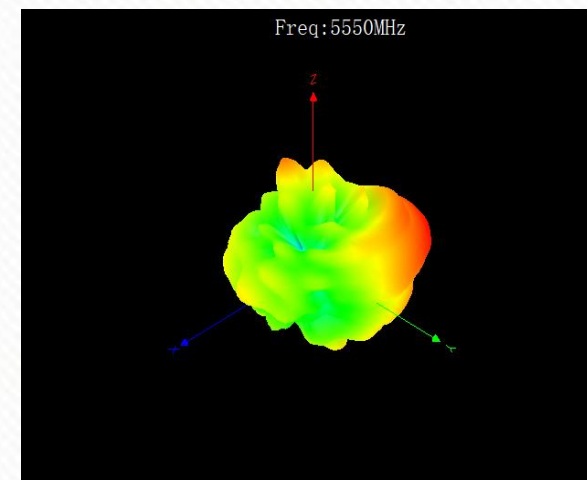
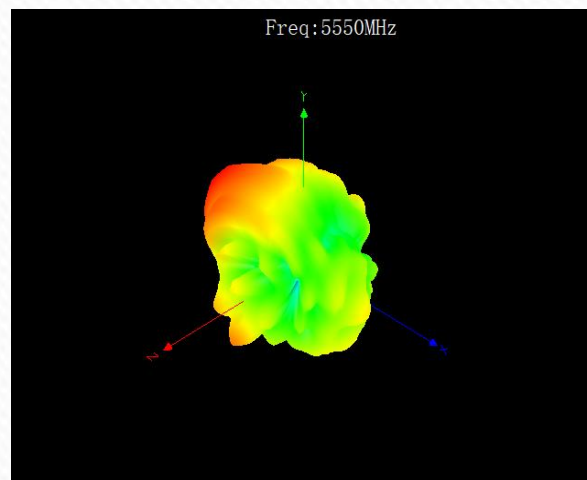
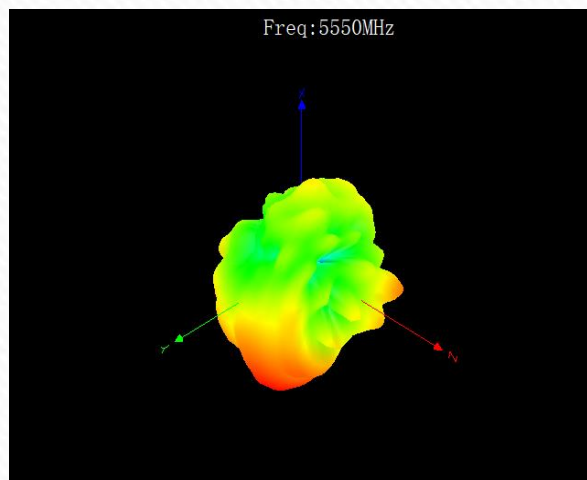
2500MHz



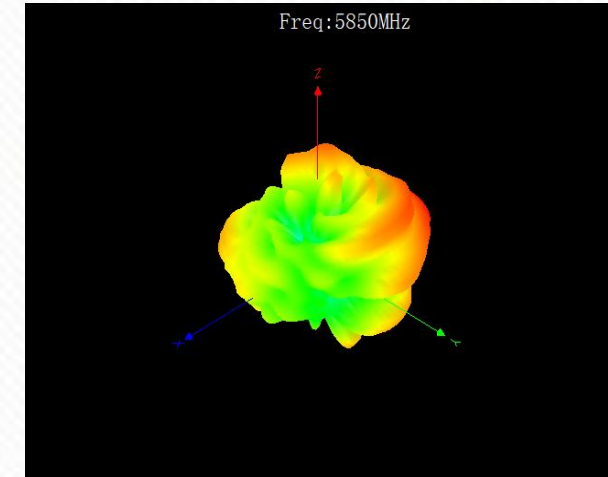
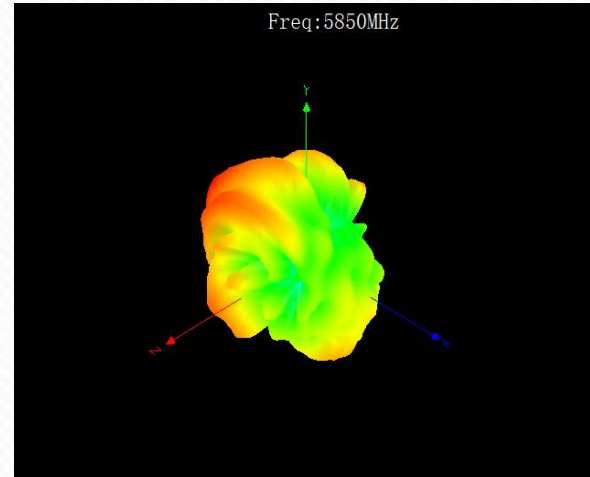
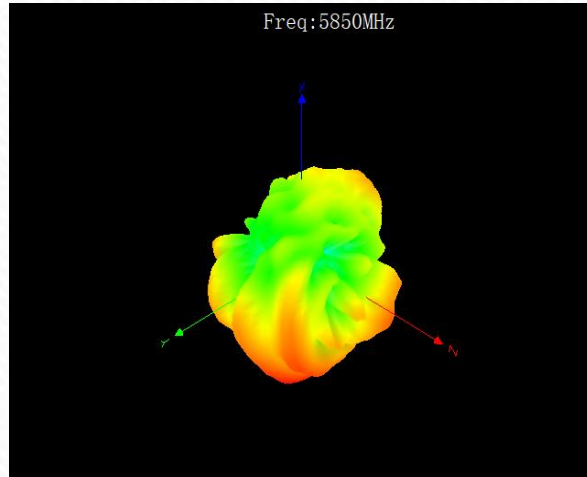
5150MHz



5550MHz



5850MHz



1. The antenna matching has not been changed;
2. Environment processing unchanged;
3. The antenna data meets the usage requirements.

Thank You

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Huizhou Factory: F4-6, Building 8, Xiongtao Tech Park, No.15, Qingli 2nd Rd, Huicheng Dist, Huizhou City, 516255, PRC

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