



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: XIG07

FCC ID: 2AFZZPNFAR

Test date: 2024/04/15



1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT6	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT16	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT7	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
NFC (43.27 mm*49.59mm)	Metal Frame	FPC	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.

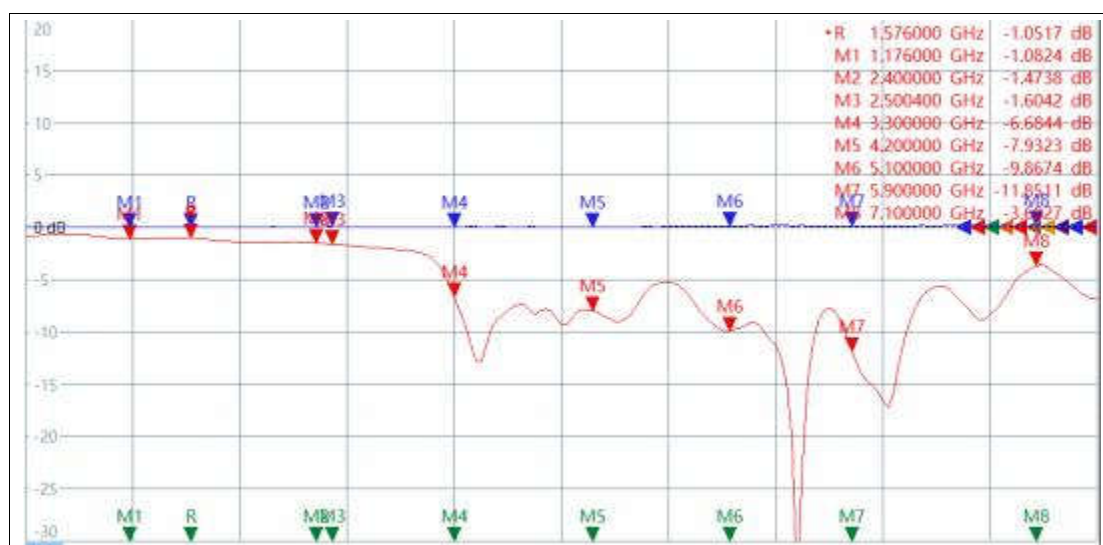


2. Test data

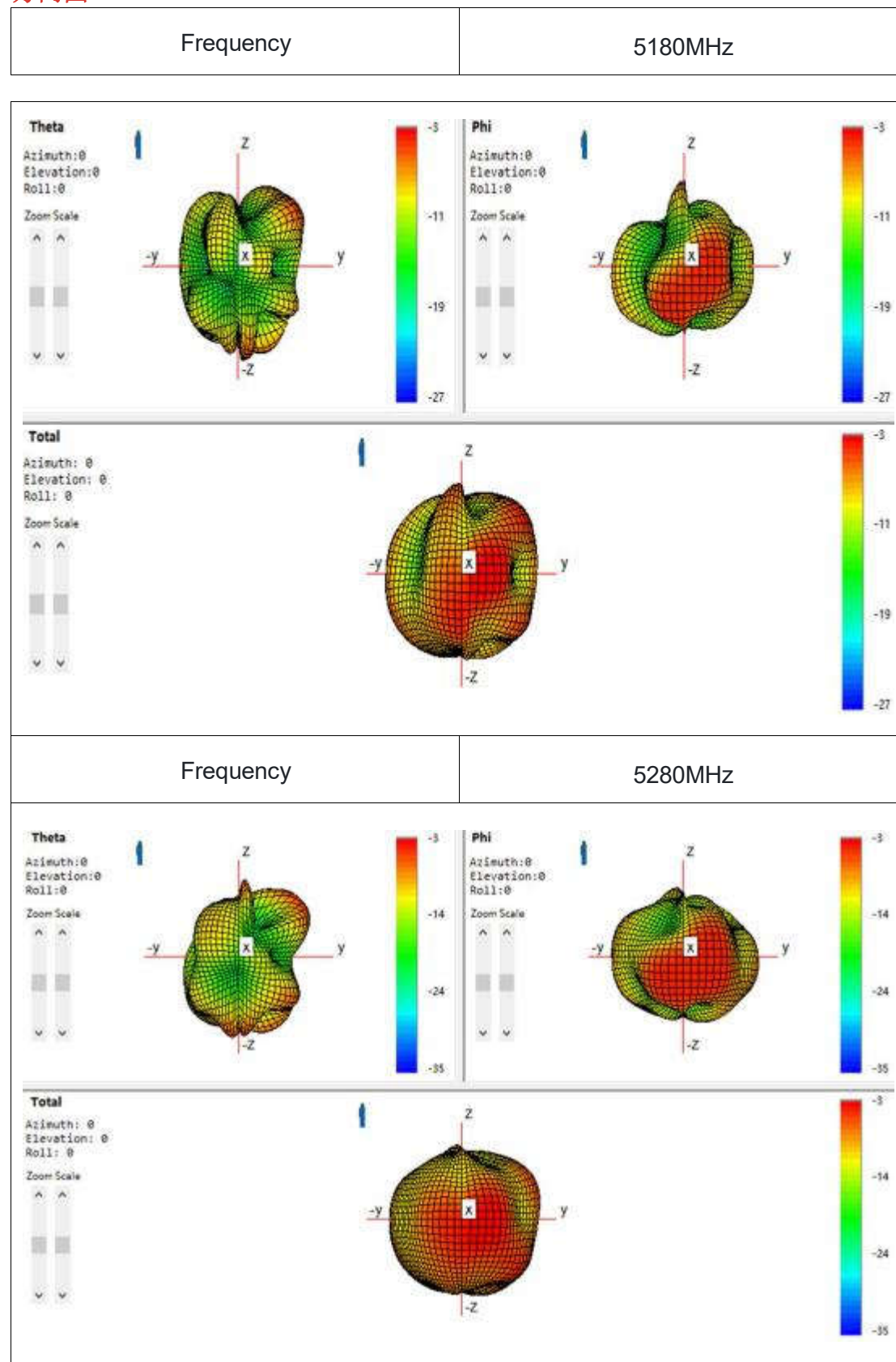
Bands for Antenna 6	NR+WIFI 5G ANT				
	Avg.Effi.(dB)	Peak gain(dBi)	EIRP	合路传导功率	
5G (5150~5250MHz)	-5.0dB	-2.3	18.2	21.7	
5G (5250~5350MHz)	-5.3dB	-2.5	17.3	21.7	
5G (5470~5725MHz)	-4.4dB	-2.2	20.9	22.5	
5G (5470~5850MHz)	-5.4dB	-2.2	21.9	22.5	
6G (5925-6425GHz)	-7.4dB	-0.1	19.7	19.7	
6G (6425-6525GHz)	-7.8dB	-2.5	20	20	
6G (6525-6875GHz)	-7.8dB	-3.6	18.5	20	
6G (6875-7125GHz)	-9.3dB	-6.6	17.1	19.5	



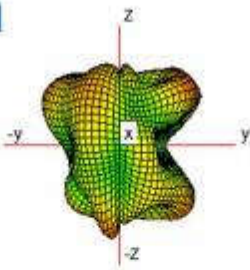
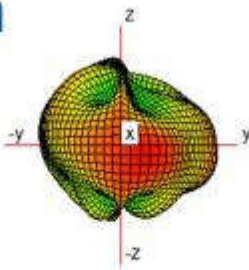
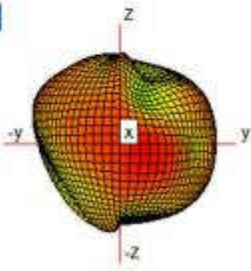
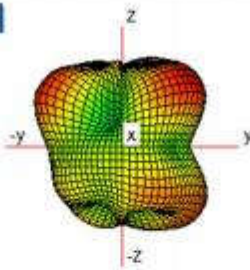
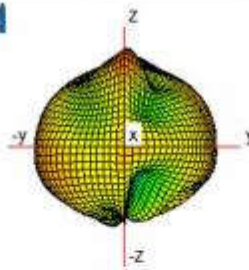
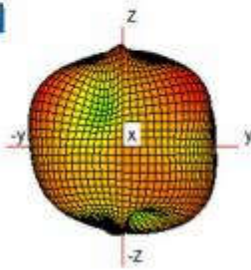
S 参数

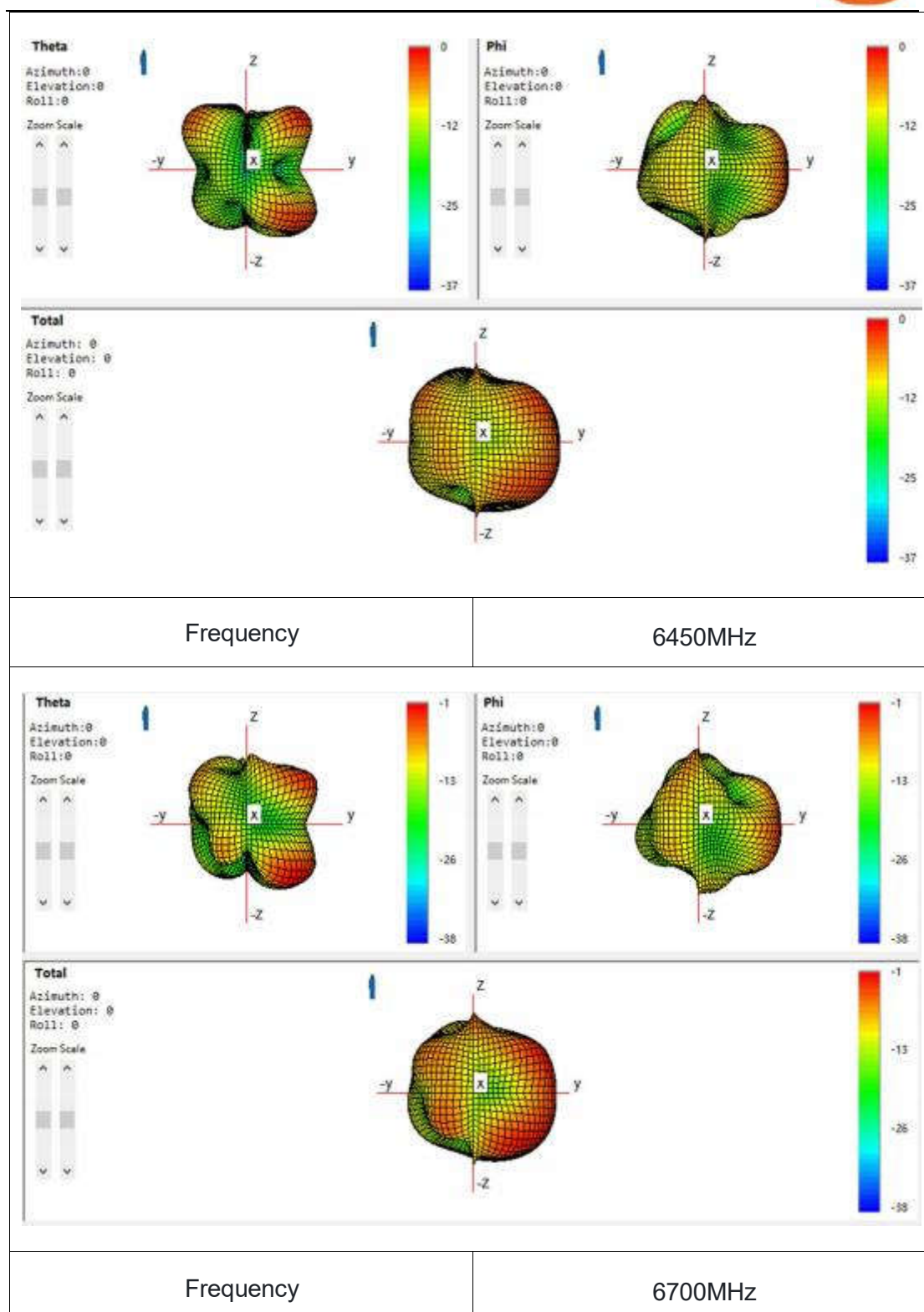


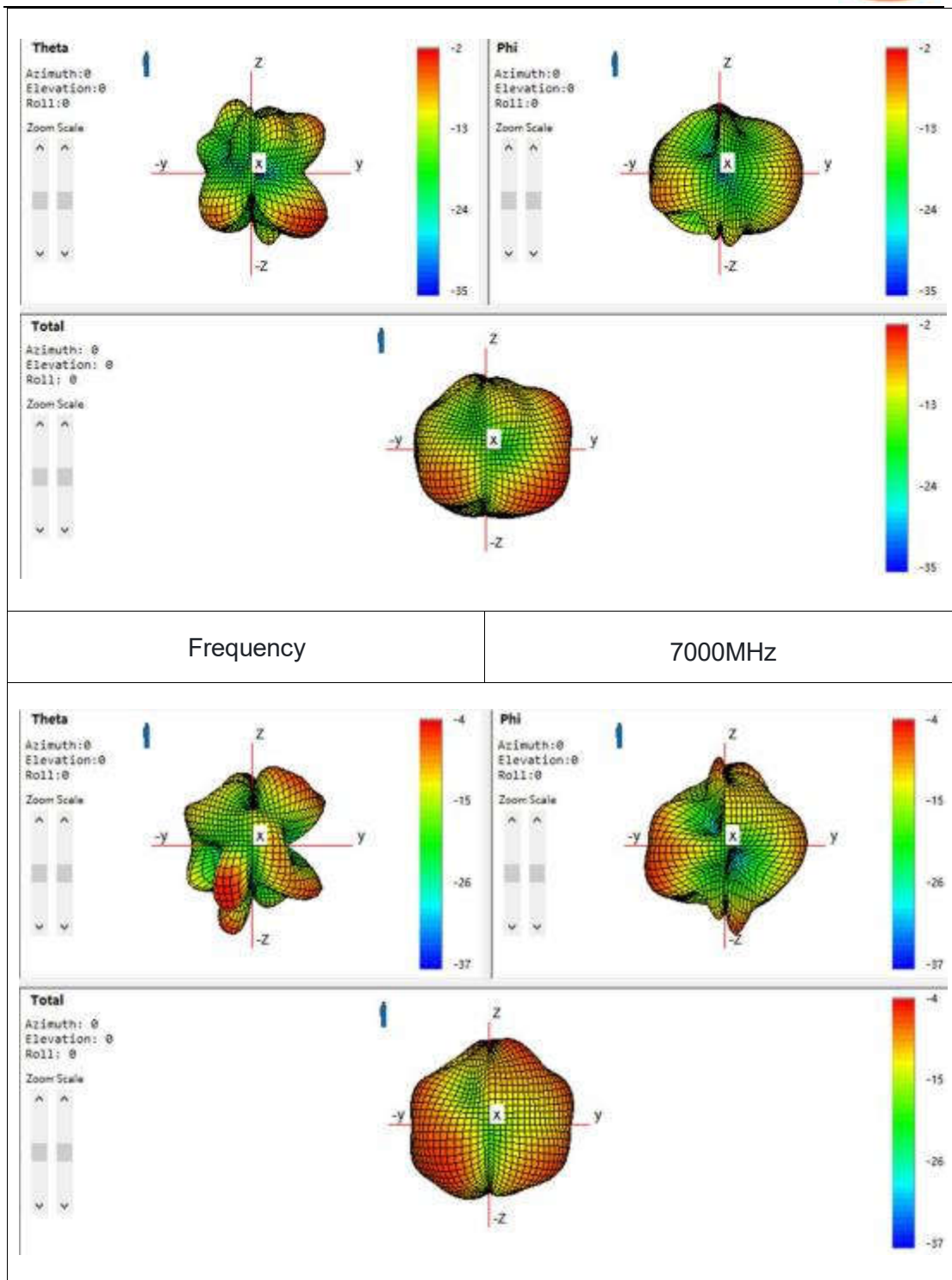
方向图





Frequency	5500MHz
Theta Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -13 -24 -35 Phi Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -13 -24 -35 Total Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -13 -24 -35	
Frequency	5785MHz
Theta Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -14 -27 -39 Phi Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -14 -27 -39 Total Azimuth: 0 Elevation: 0 Roll: 0 Zoom Scale  -2 -14 -27 -39	
Frequency	6250MHz

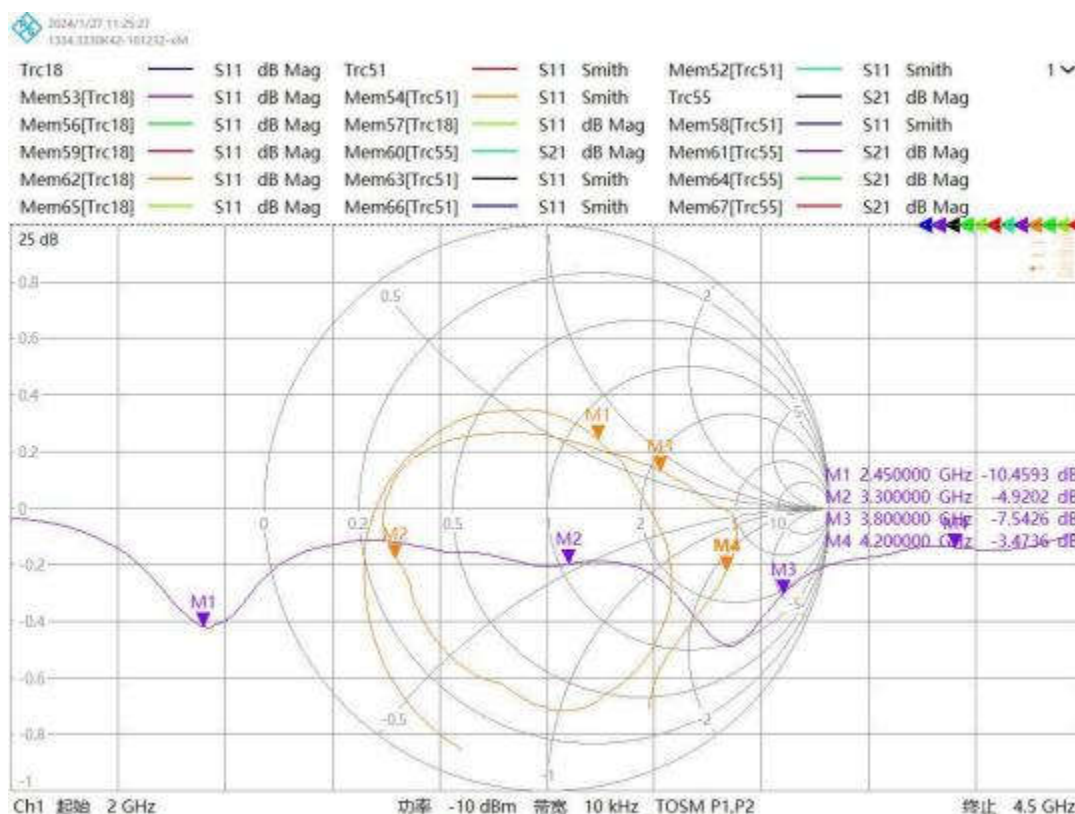






Bands for Antenna 7	NR+WIFI 2.4G ANT				
	Avg.Effi. (dB)	Peak gain(dBi)	EIRP	合路传导功 率	
2.4G(2400~2485MHz)	-5.6	-1	20	22.4	

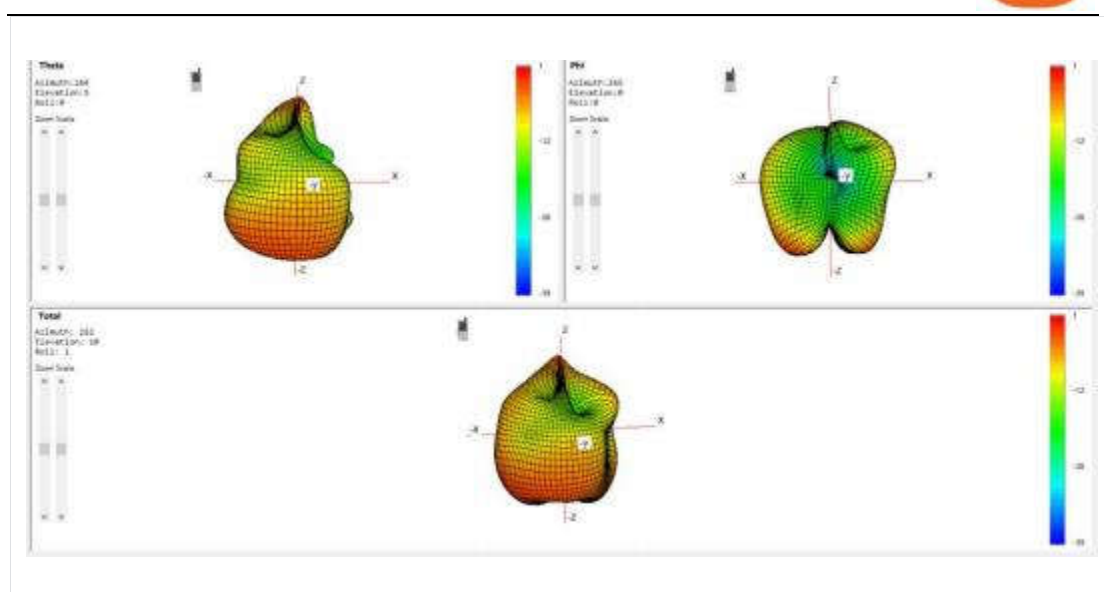
S 参数



方向图

Frequency

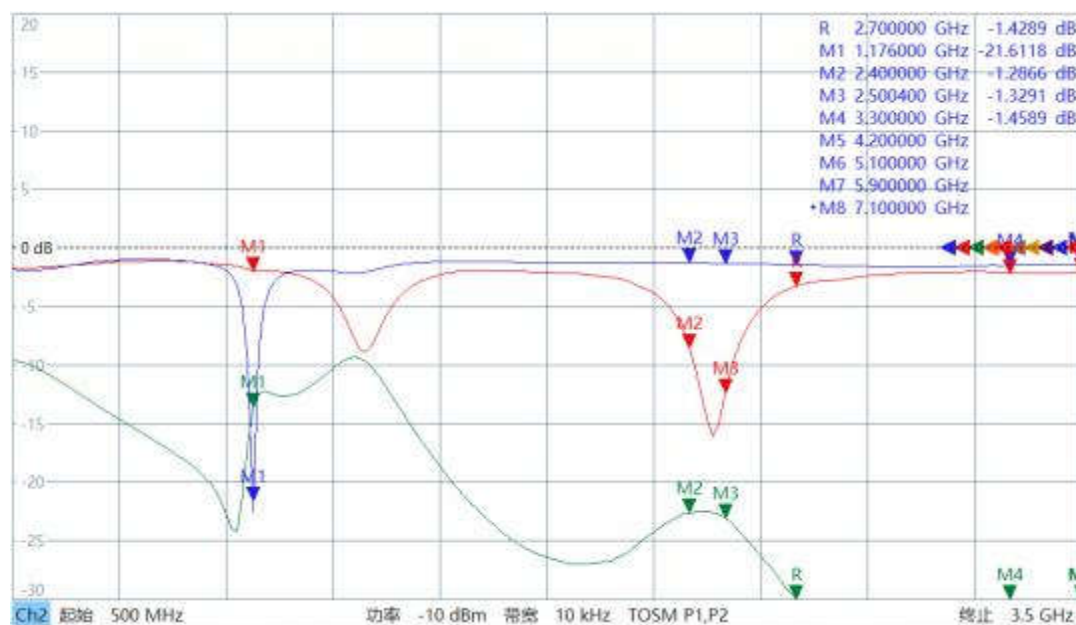
2450MHz





Band for Antenna 16	WIFI_2.4G ANT				
	Avg.Effi .dB)	Peak gain(dBi)	EIRP	合路传导 功率	
2.4G (2400~2485MHz)	-7dB	-2	20	22.4	
Bluetooth	-7dB	-2	20	22.4	

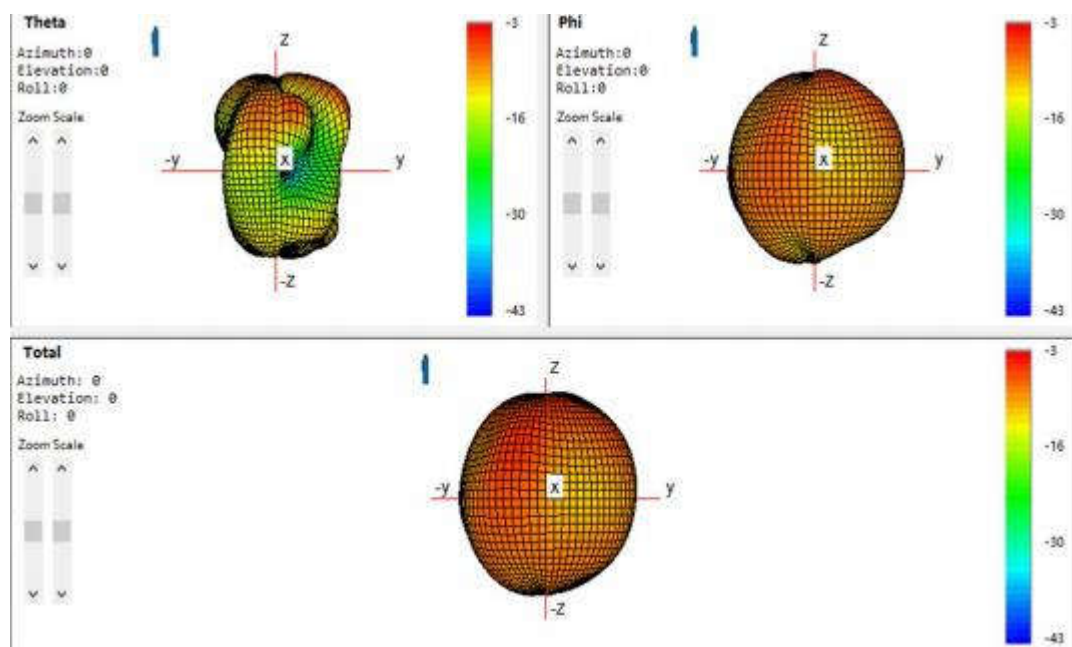
S 参数



方向图

Frequency

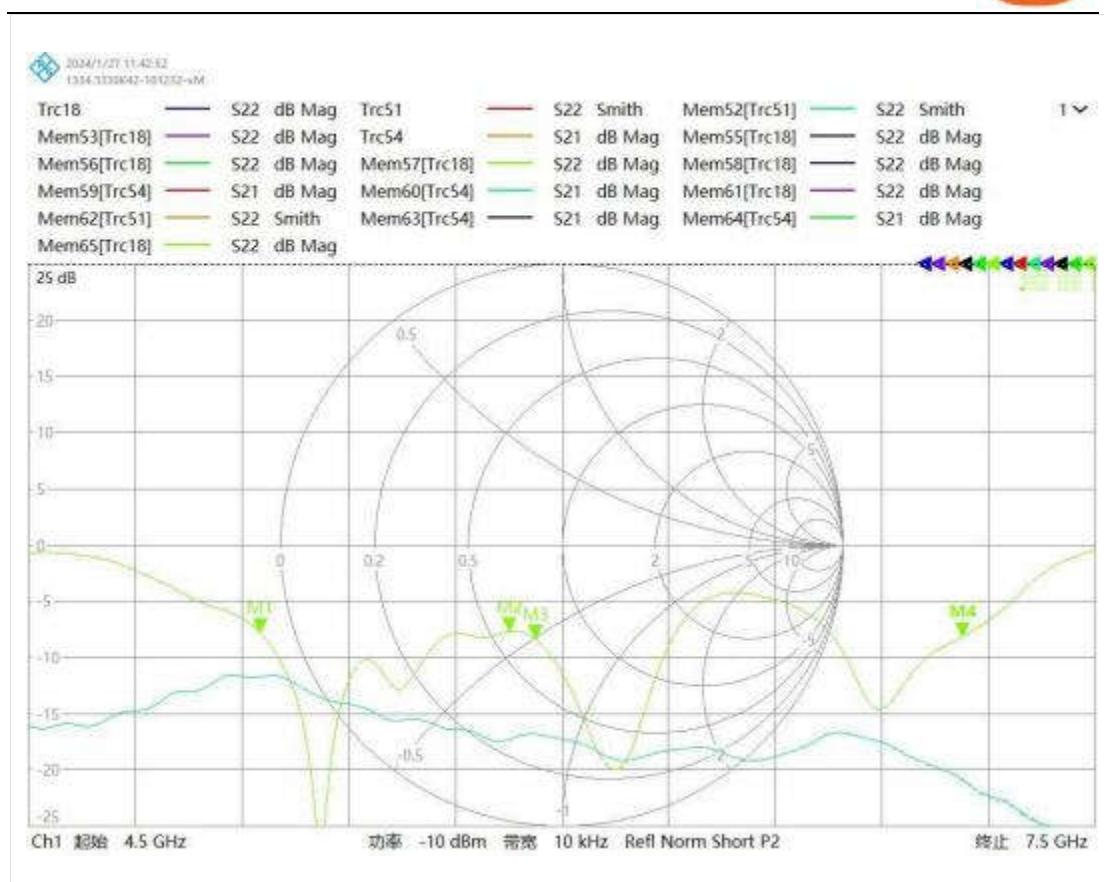
2450MHz



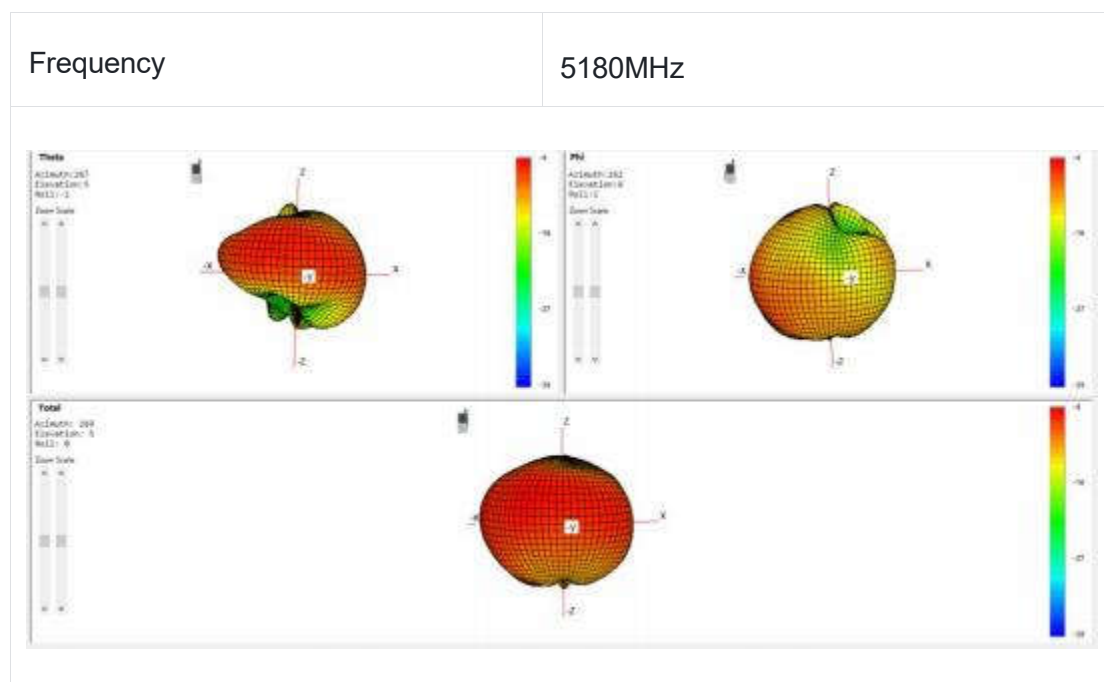


Band for Antenna 17	WIFI_5G ANT				
	Avg.Effi.(dB)	Peak gain(dBi)	EIRP	合路传导 功率	
5G (5150~5250MHz)	-6.4	-2.8	18.2	21.7	
5G (5250~5350MHz)	-6	- 1.6	17.3	21.7	
5G (5470~5725MHz)	-6.7	- 1.7	20.9	22.5	
5G (5470~5850MHz)	-6.3	- 1.7	21.9	22.5	
6G (5925- 6425GHz)	-6	- 1.9	19.7	19.7	
6G (6425- 6525GHz)	-6.5	-3.5	20	20	
6G (6525- 6875GHz)	-6.2	- 6.2	18.5	20	
6G (6875- 7125GHz)	-7	- 7	17.1	19.5	

S 参数



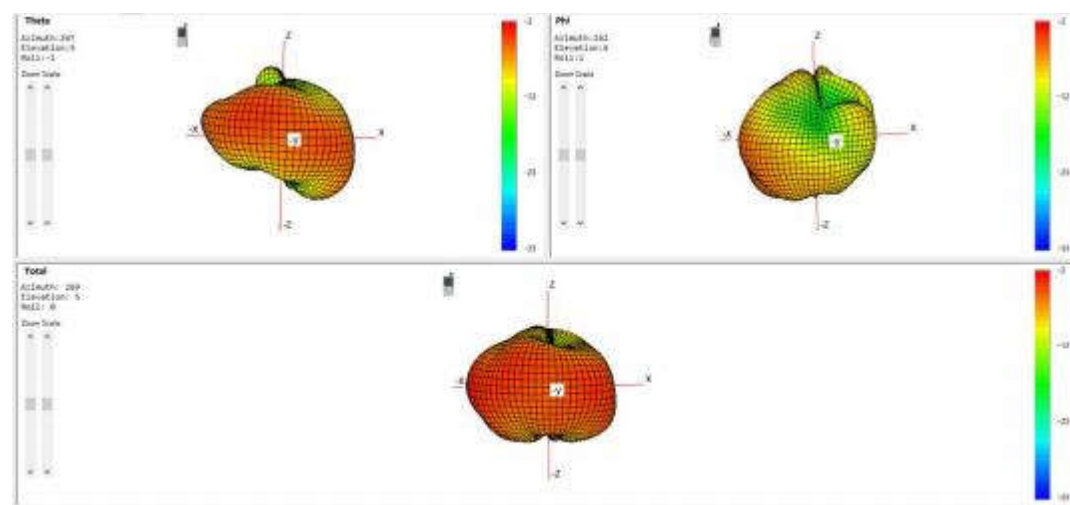
方向图





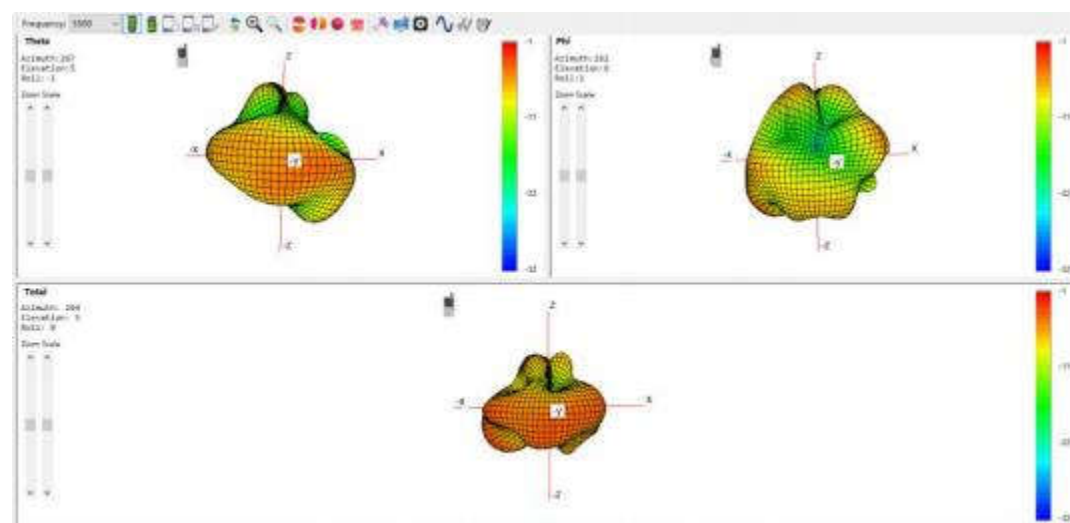
Frequency

5280MHz



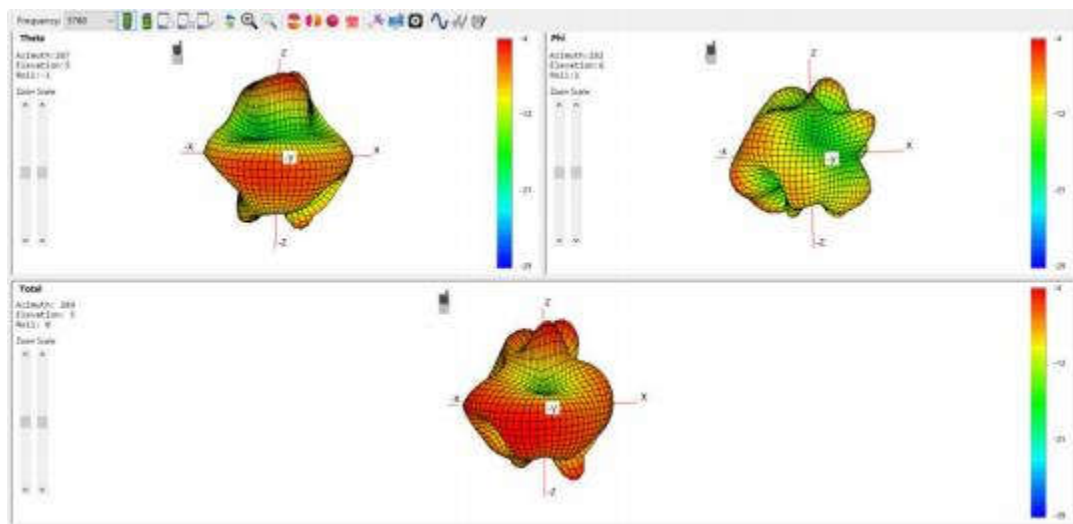
Frequency

5500MHz



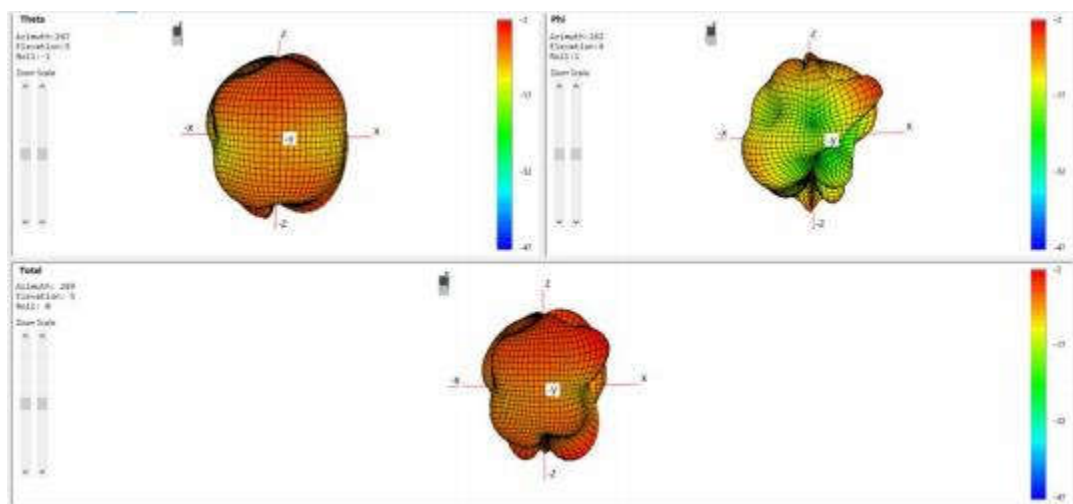
Frequency

5785MHz



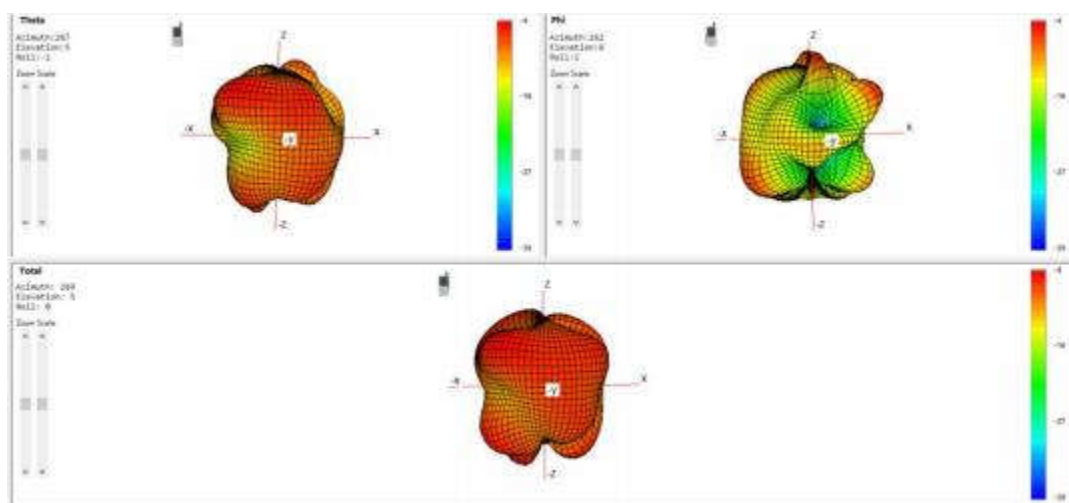
Frequency

6250MHz



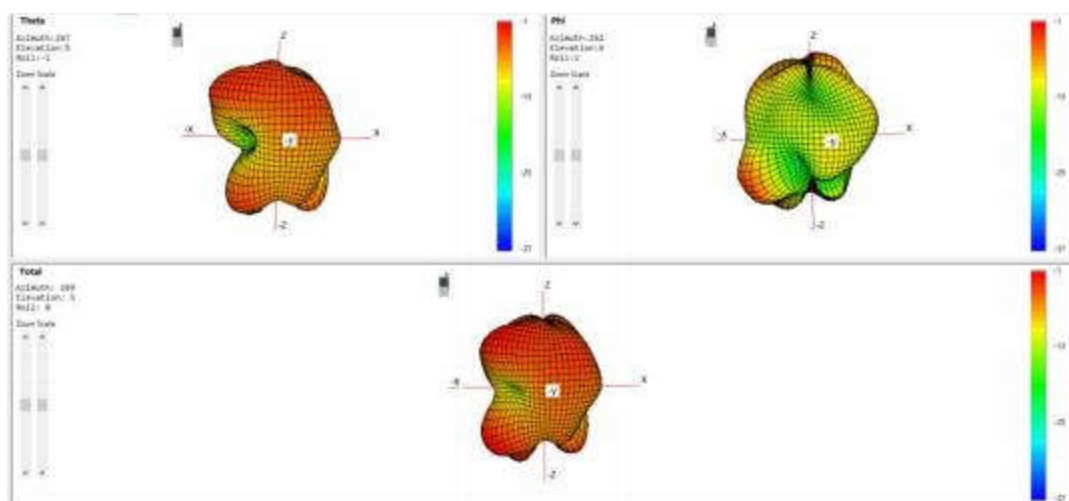
Frequency

6450MHz



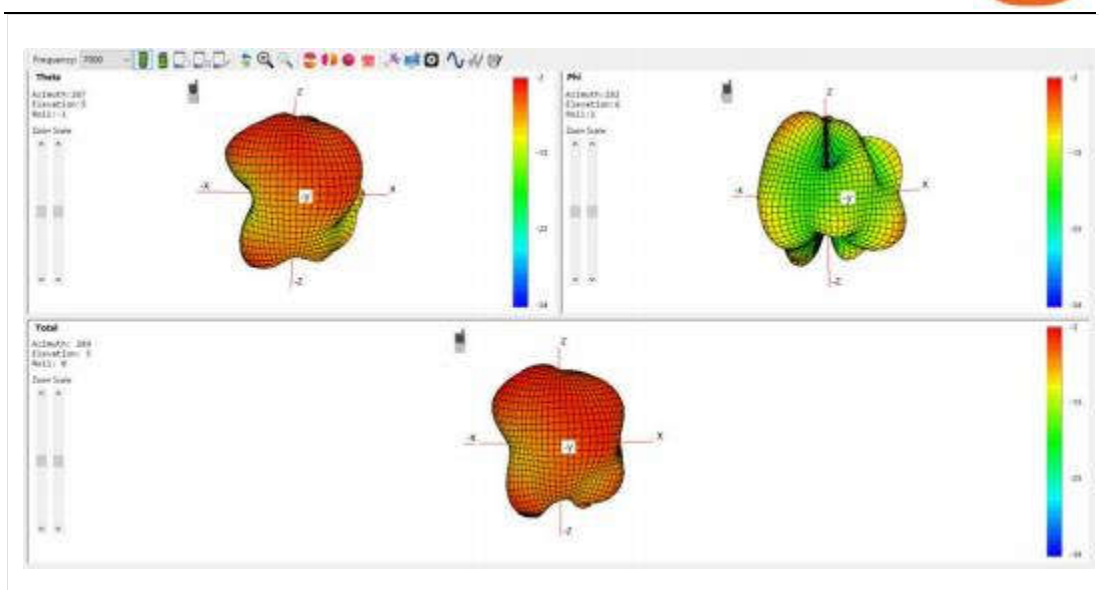
Frequency

6700MHz



Frequency

7000MHz



4. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
2G/3G/4G Vector Network Analyzer	KEYSIGHT	E5071C	EQ80224	2024-4-6	2025-4-6
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	CT10120480 B5054	2024-4-6	2025-4-6



5. The name of the test software

GTS MaxSign- RayZone2800D_Z

6. Test engineer

Hu Xiongmin

End of Test Report