



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 25113PN0EG

FCC ID: 2AFZZPN0EG

Test date: 2025/07/14



1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Test party of Antenna gain
ANT7	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT9	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT10	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT11	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
NFC	FPC	FPC	Deman Electronics	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing



WPT (external diameter: 48mm inner diameter:22mm)	FPC	FPC	Deman Electronics	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
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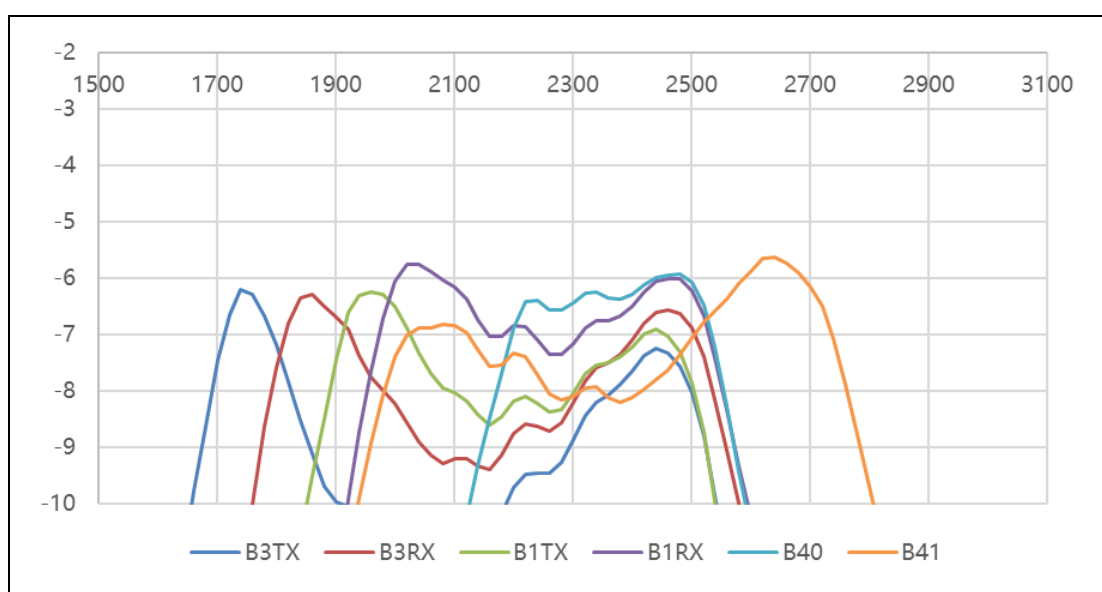


2. Test data

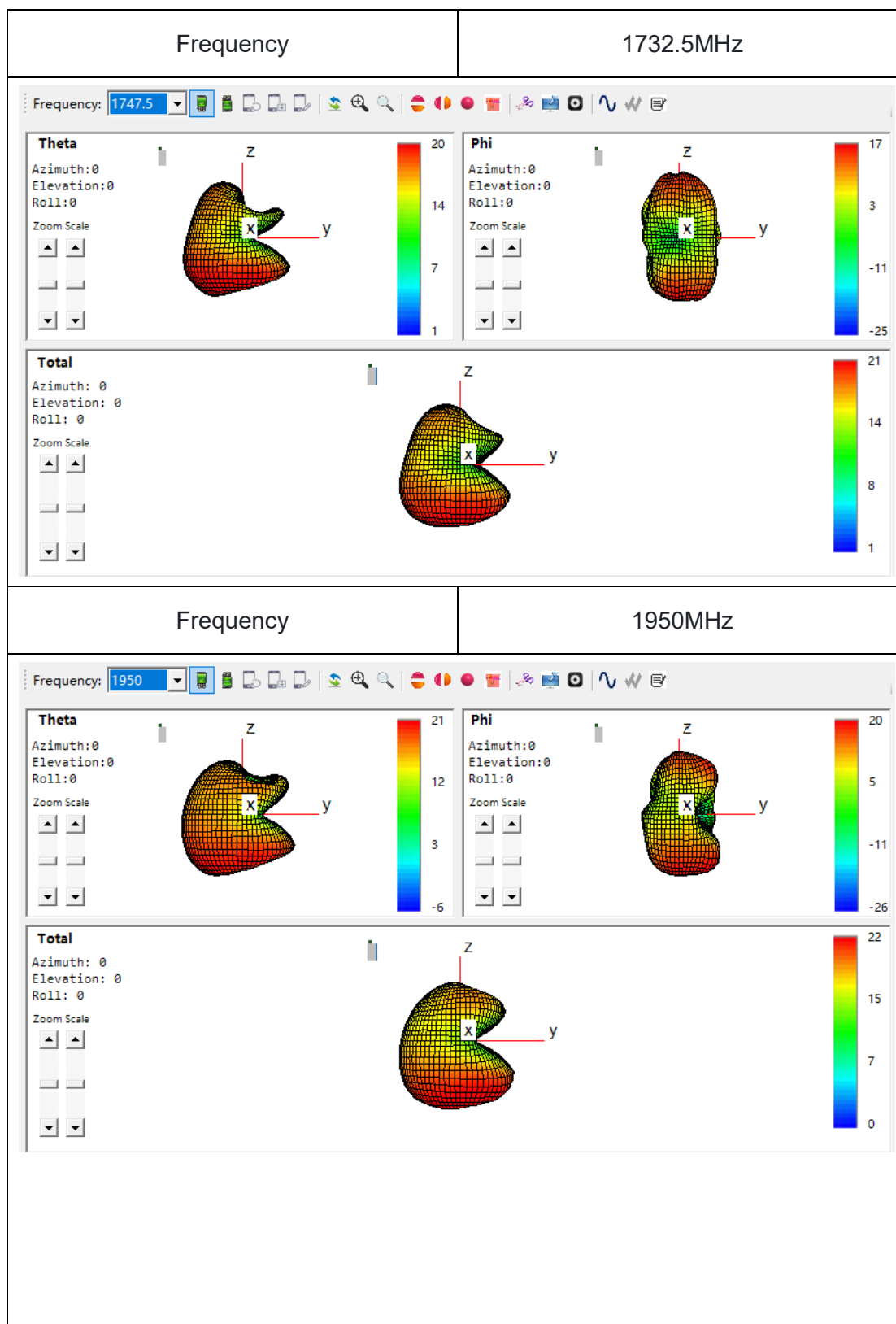


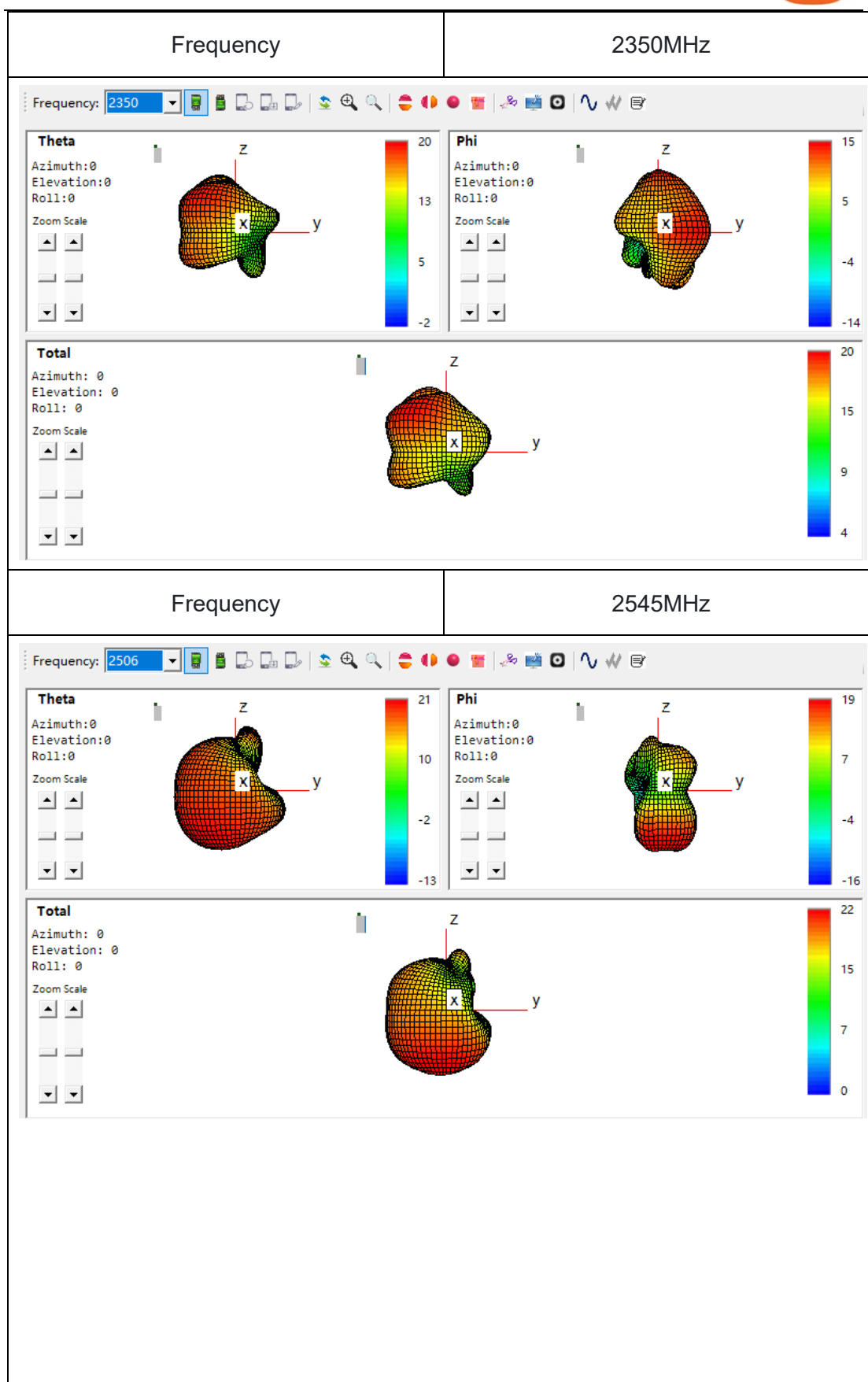
Band for Antenna 7	MHB ANT+WIFI 2.4G/BT	
	Avg.Effi.(dB)	Peak gain(dBi)
WIFI 2.4G/BT	-5.5	-0.7

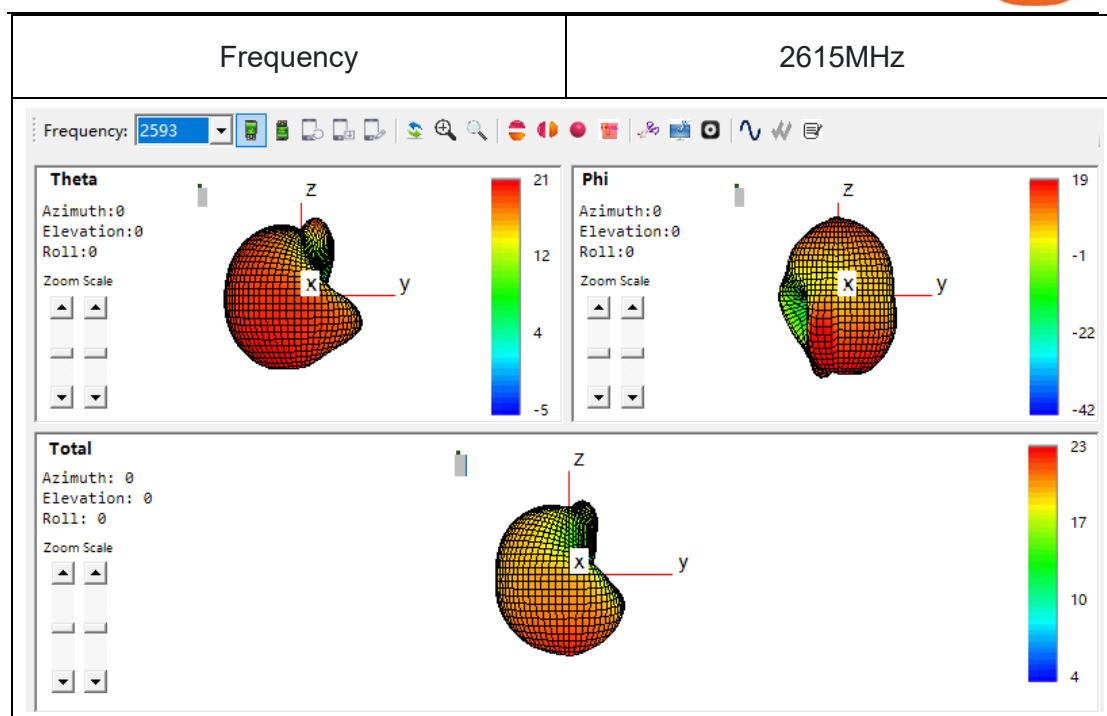
S 参数



方向图



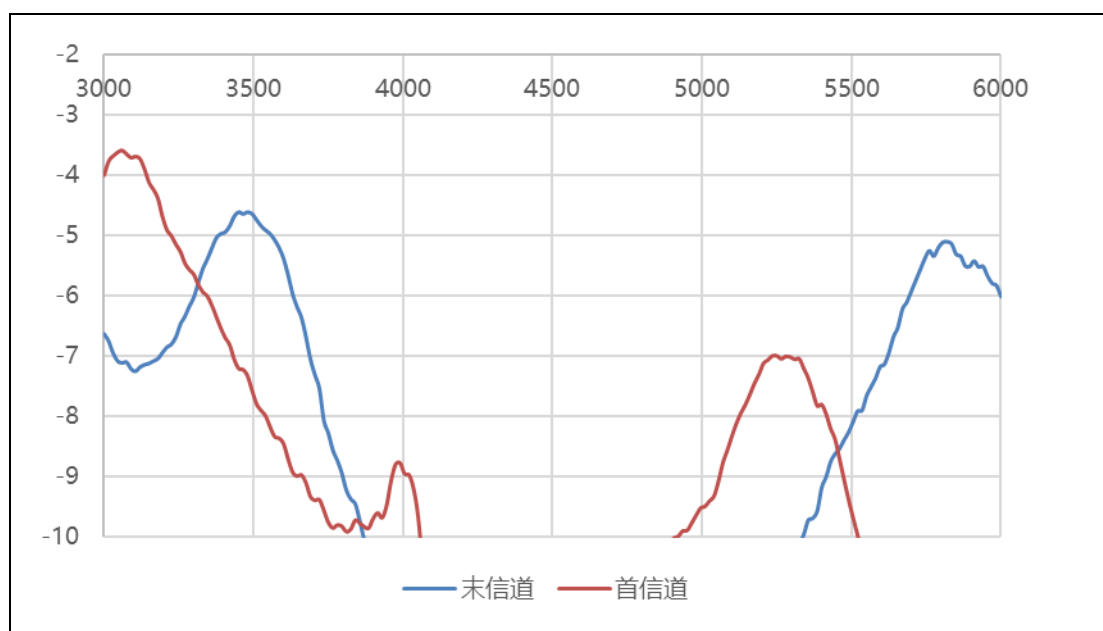






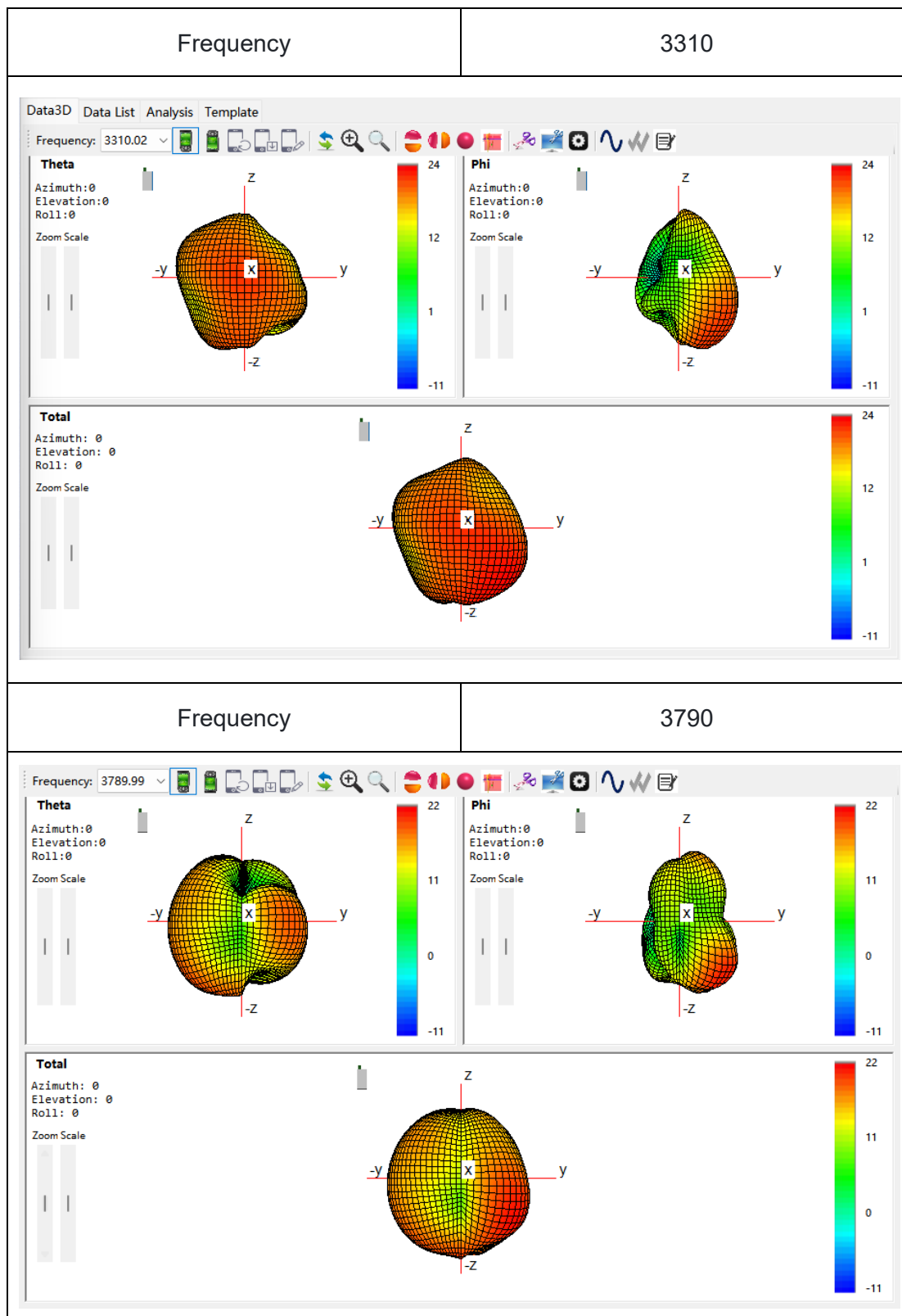
Band for Antenna 9	N78+WIFI5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-6.3	-2.7
5G (5250~5350MHz)	-6.3	-2.7
5G (5470~5725MHz)	-6.4	-3
5G (5725~5850MHz)	-4.7	-0.2
6G (5925-6425GHz)	-7	-3.2
6G (6425-6525GHz)	-8	-6.4
6G (6525-6875GHz)	-8.6	-5.1
6G (6875-7125GHz)	-9.2	-7.1

S 参数





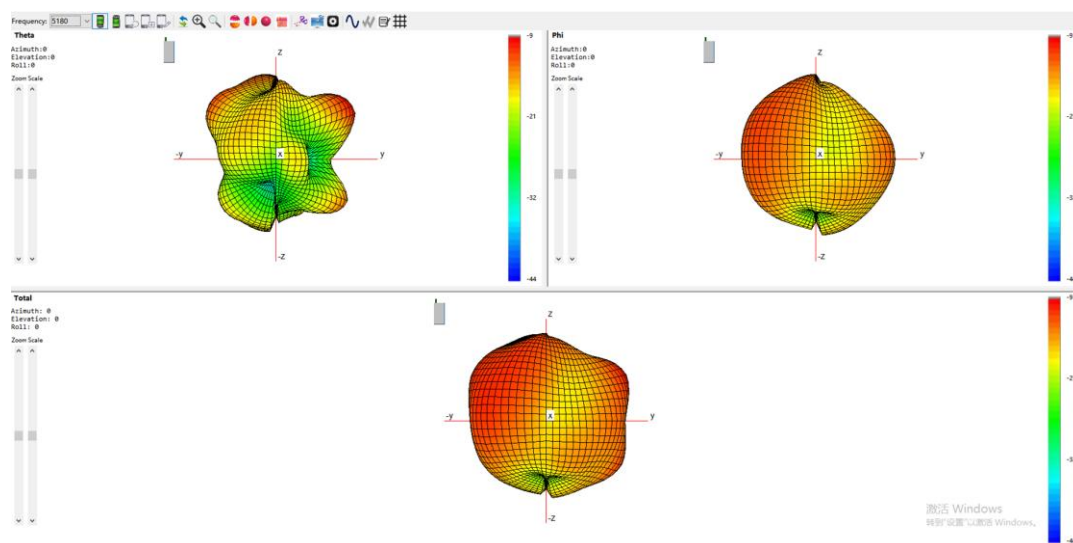
方向图





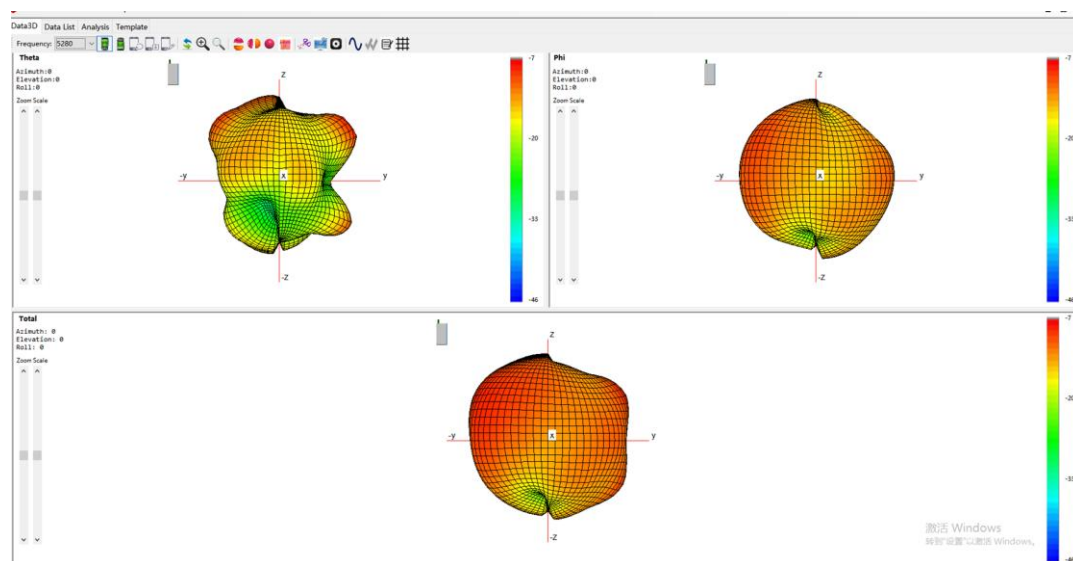
Frequency

5180MHz



Frequency

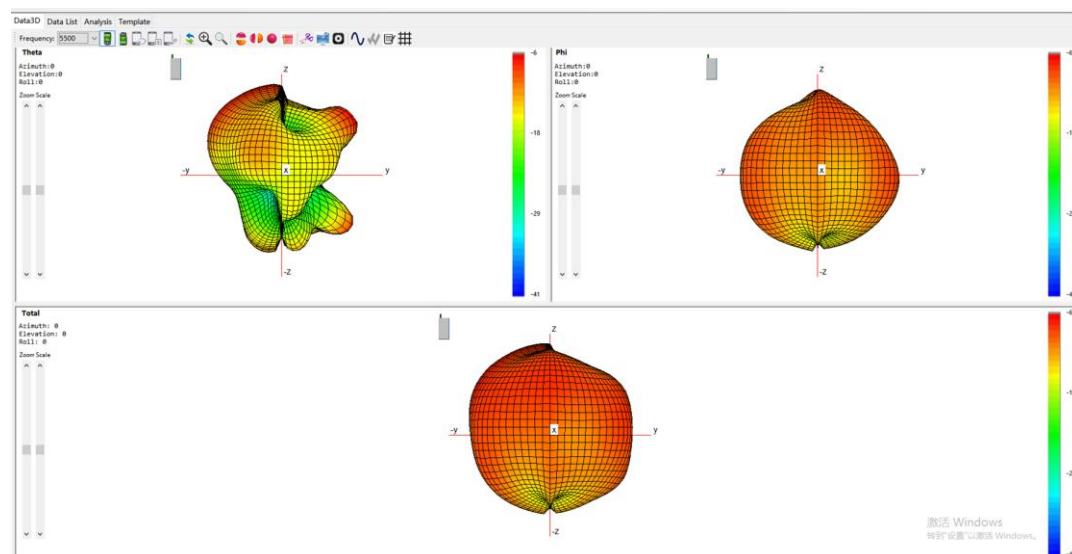
5280MHz





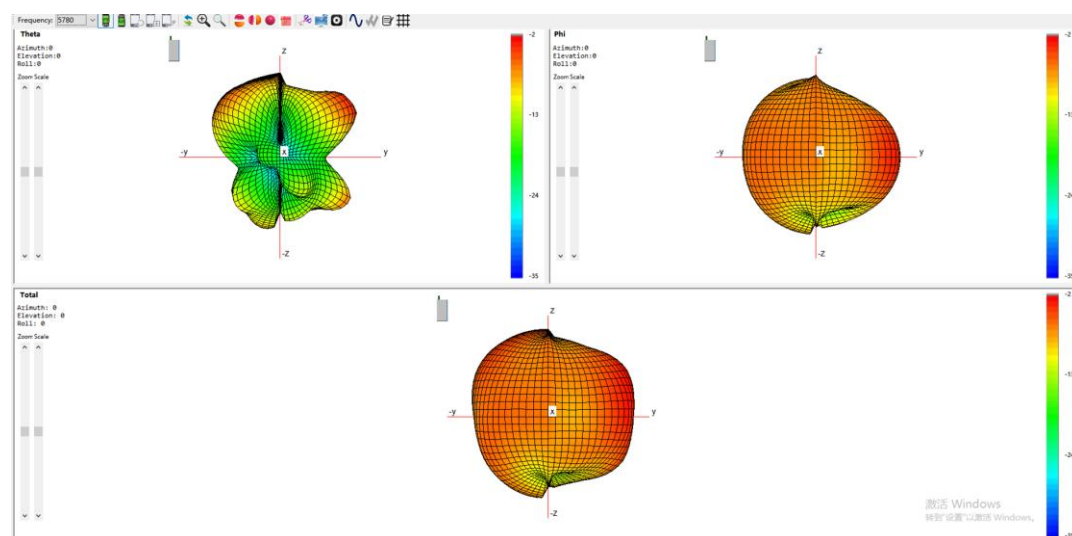
Frequency

5500MHz



Frequency

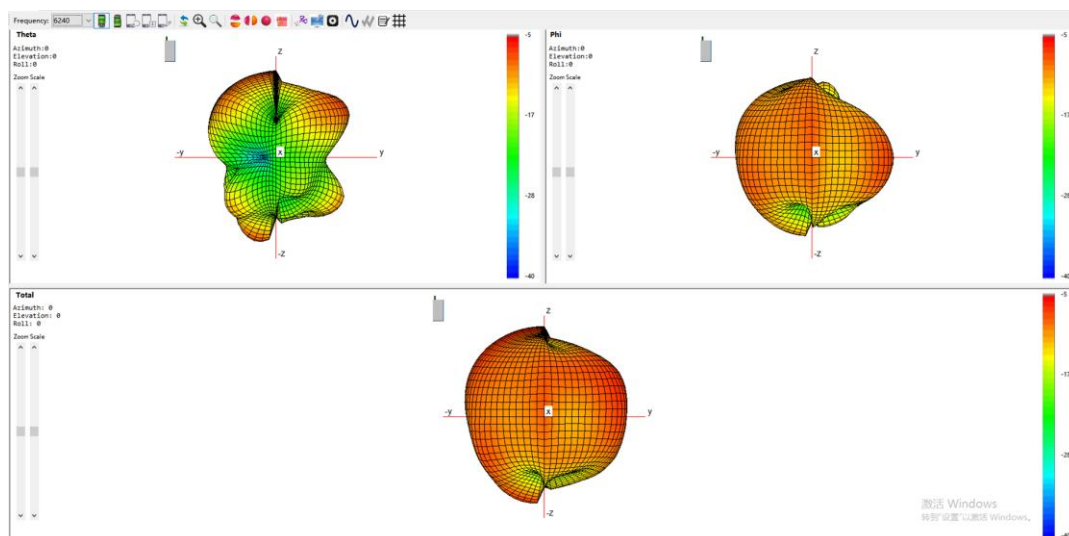
5785MHz





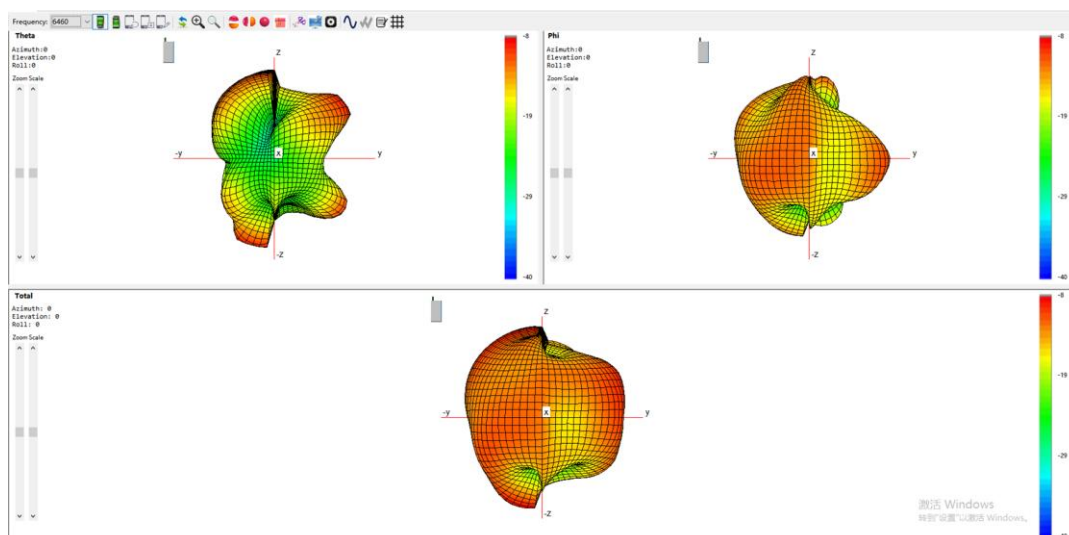
Frequency

6250MHz



Frequency

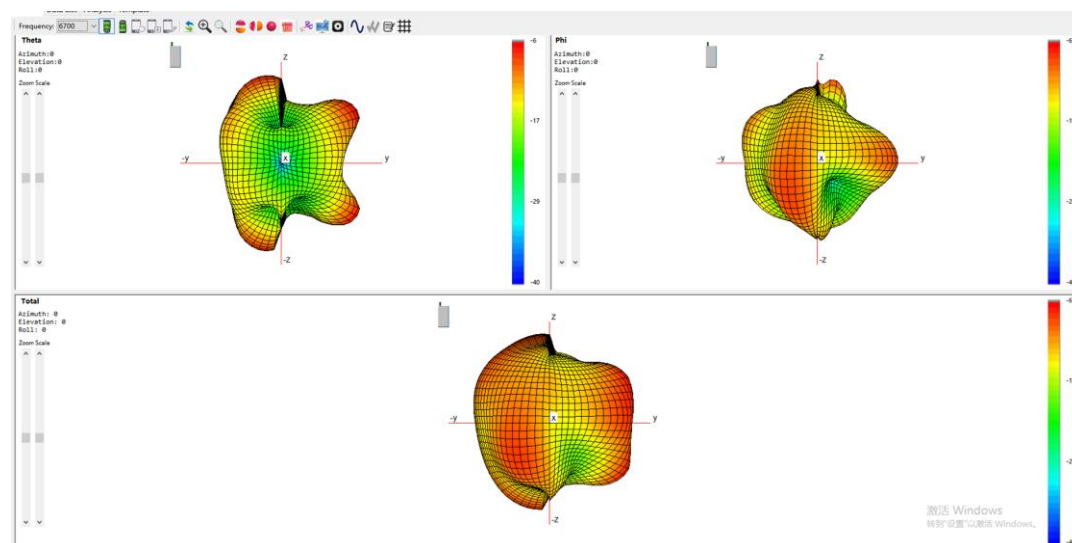
6450MHz





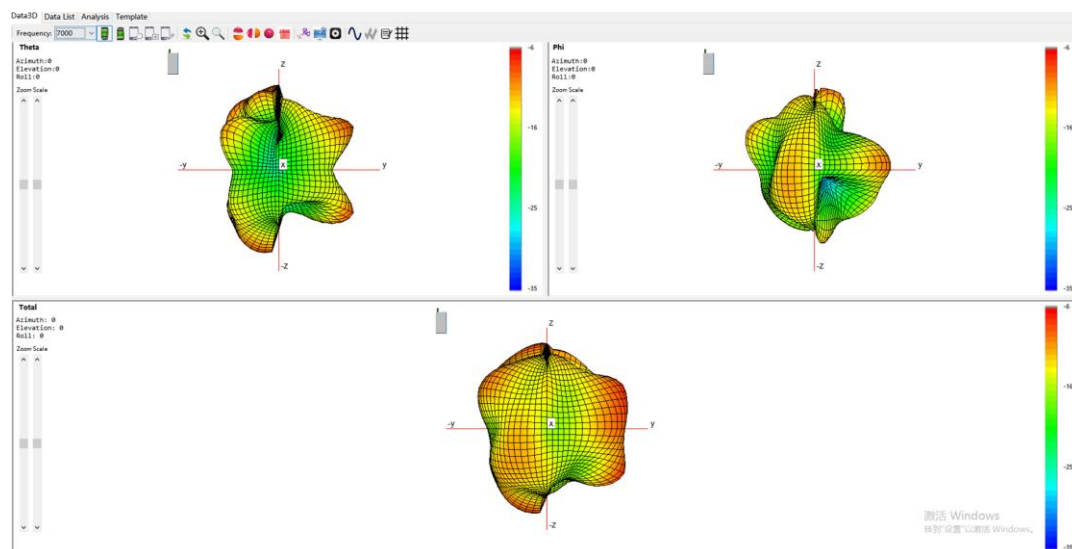
Frequency

6700MHz



Frequency

7000MHz



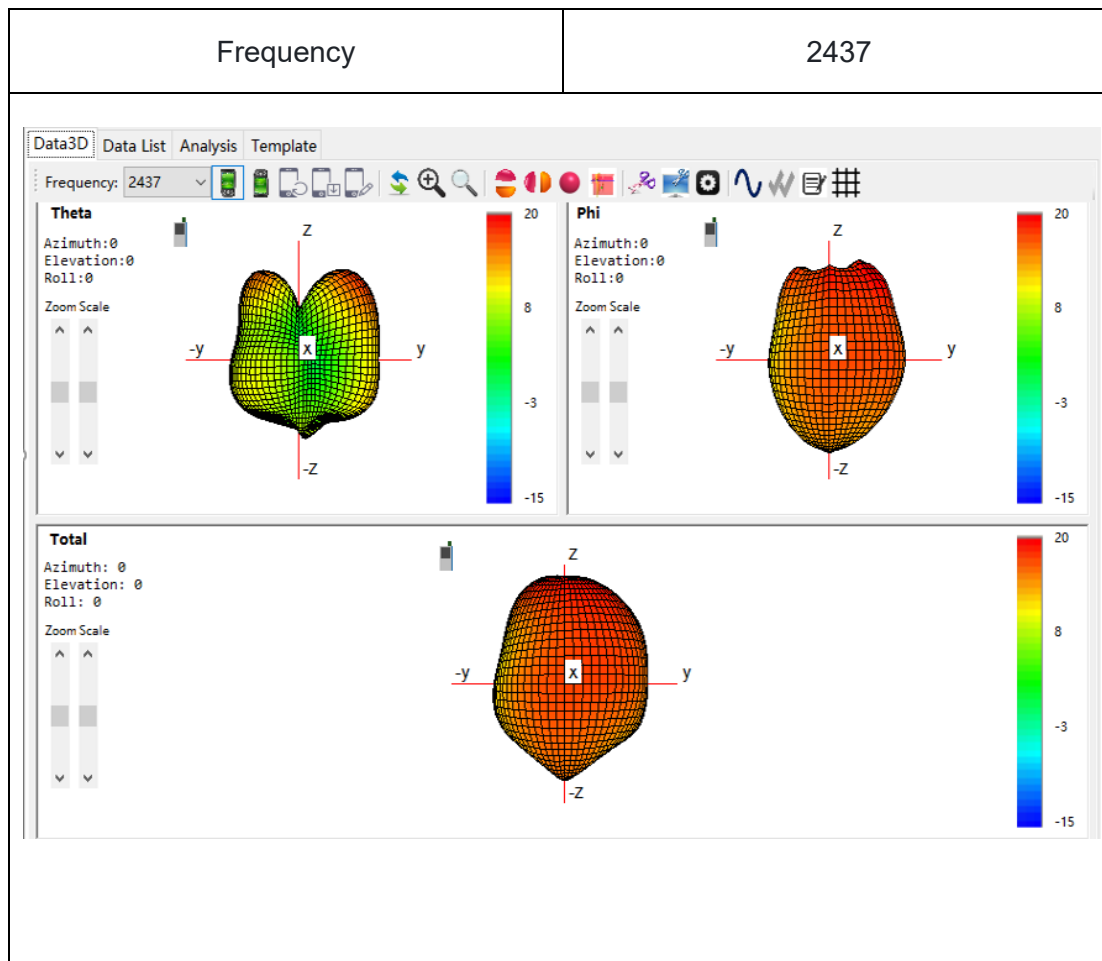


Band for Antenna 10	WIFI 2.4G/BT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)/BT	-4.6	-0.3

S 参数



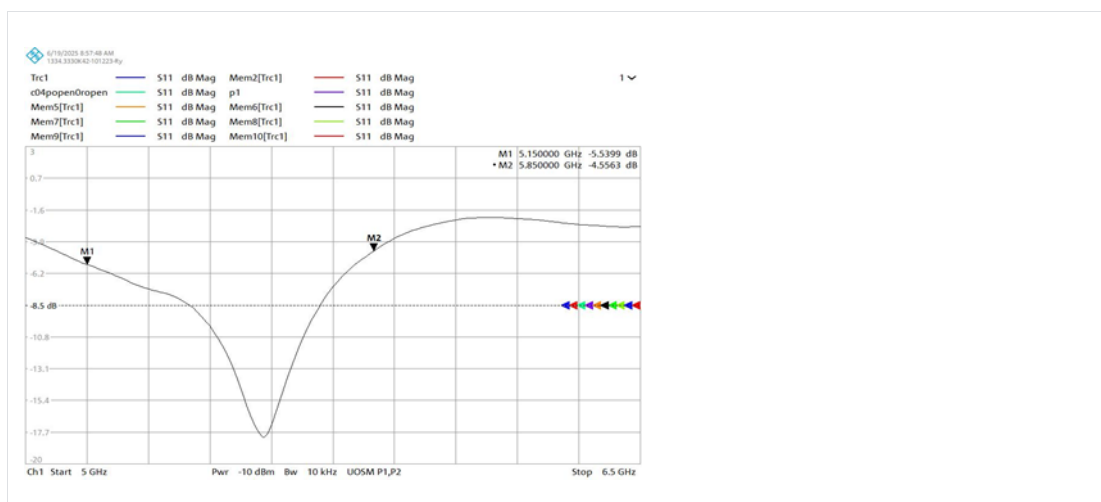
方向图



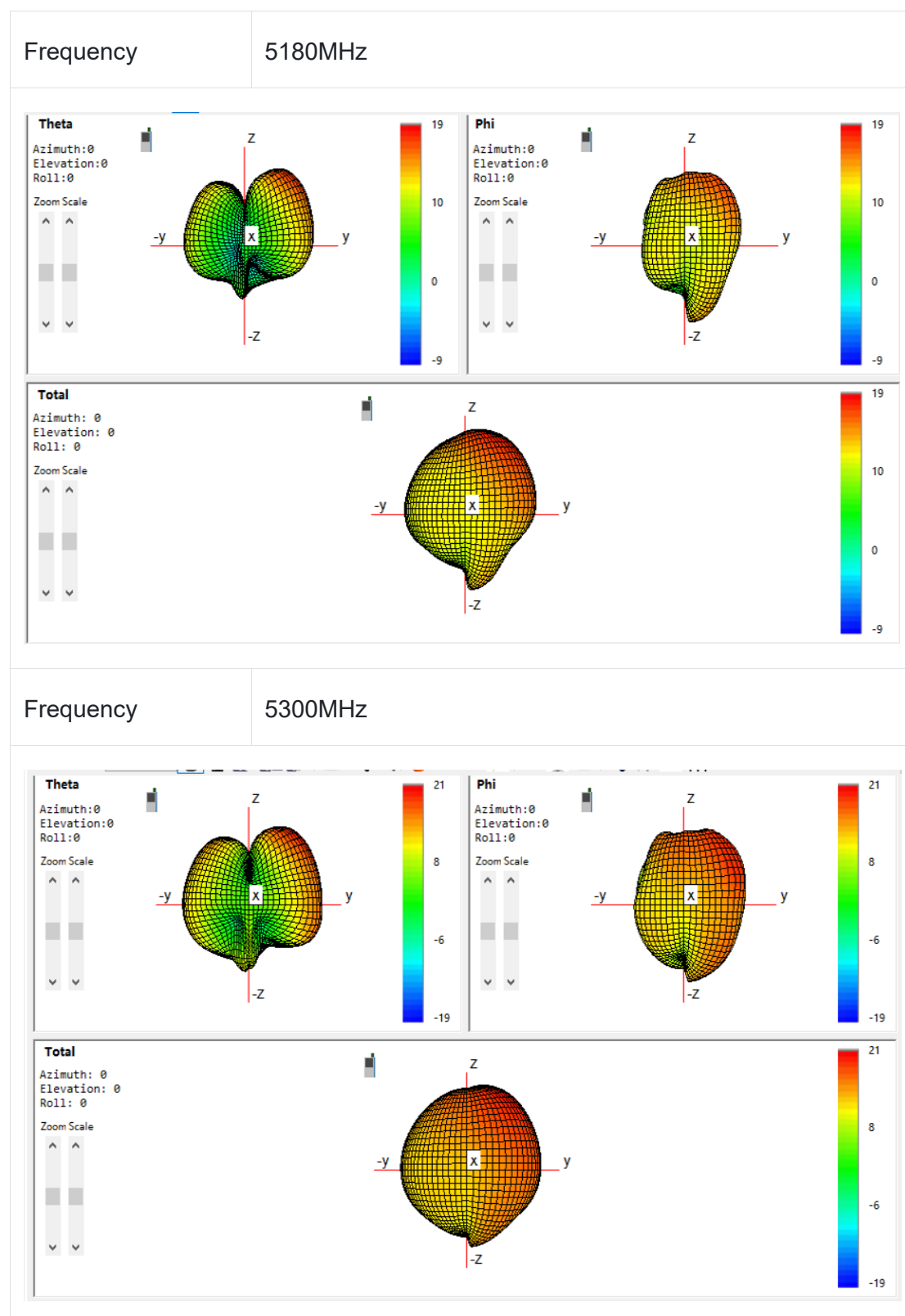


Bands for Antenna 11	WIFI5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-4.9	-0.3
5G (5250~5350MHz)	-4.8	-0.2
5G (5470~5725MHz)	-4.3	-0.4
5G (5725~5850MHz)	-5.3	-1.1
6G (5925~6425GHz)	-6.8	-2.9
6G (6425~6525GHz)	-7	-5.2
6G (6525~6875GHz)	-7.5	-4.7
6G (6875~7125GHz)	-9	-5.9

S 参数



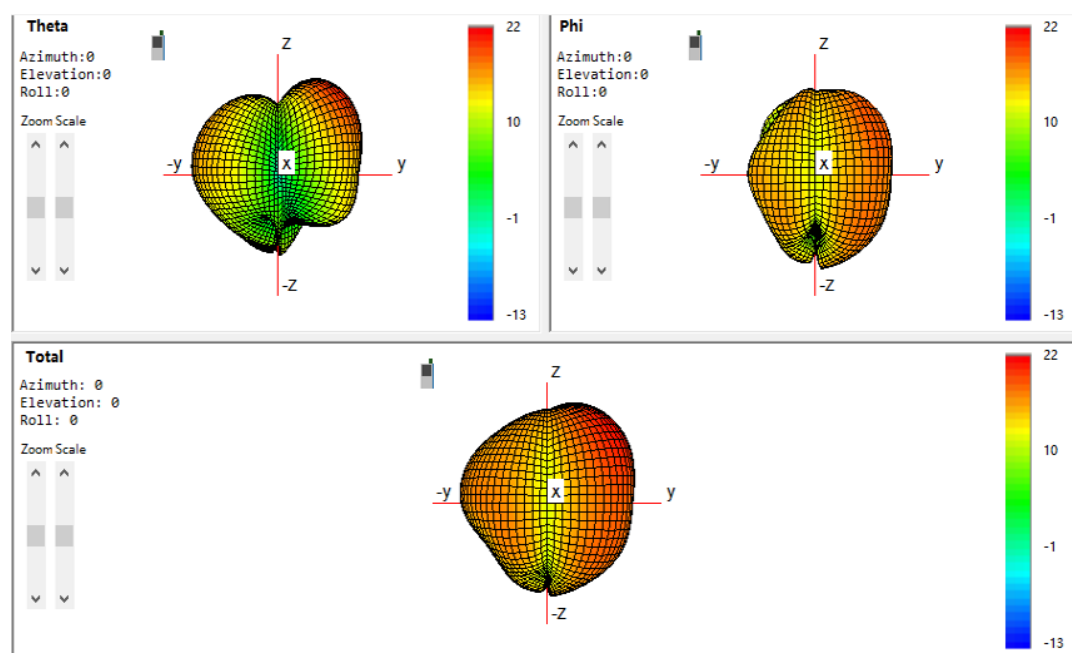
方向图





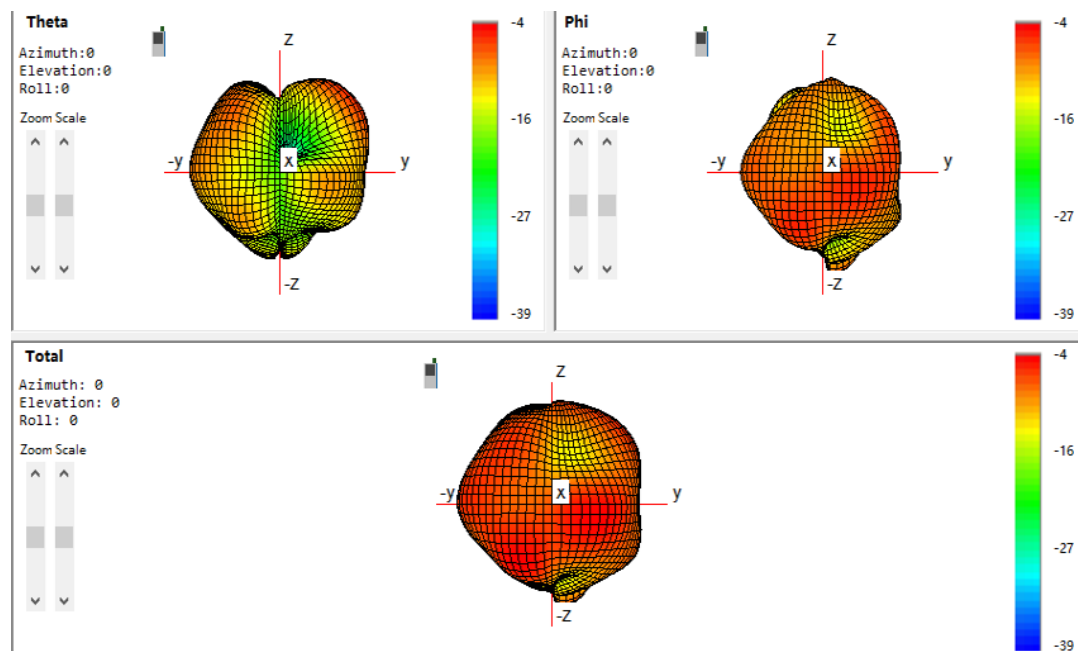
Frequency

5785MHz



Frequency

6260MHz





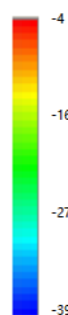
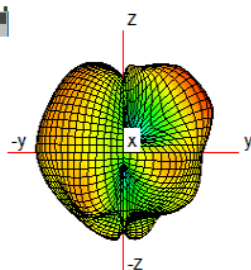
Frequency

6440MHz

Theta

Azimuth:0
Elevation:0
Roll:0

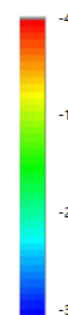
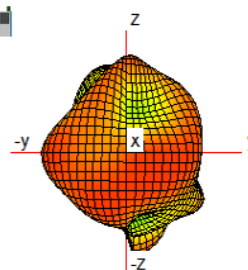
Zoom Scale



Phi

Azimuth:0
Elevation:0
Roll:0

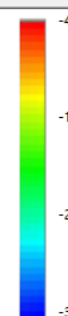
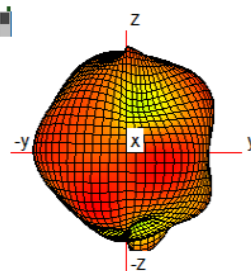
Zoom Scale



Total

Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale



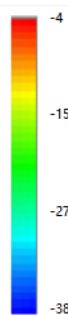
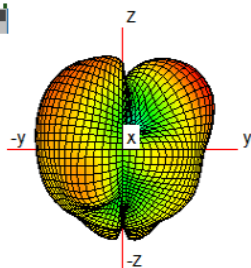
Frequency

6710MHz

Theta

Azimuth:0
Elevation:0
Roll:0

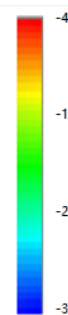
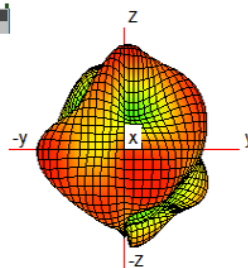
Zoom Scale



Phi

Azimuth:0
Elevation:0
Roll:0

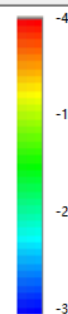
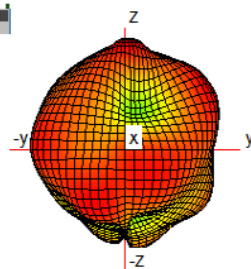
Zoom Scale



Total

Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale





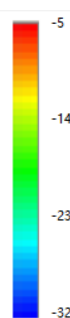
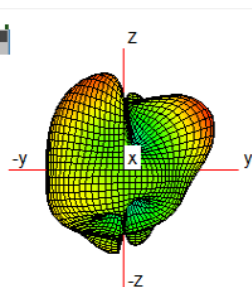
Frequency

7010MHz

Theta

Azimuth: 0
Elevation: 0
Roll: 0

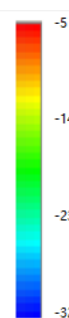
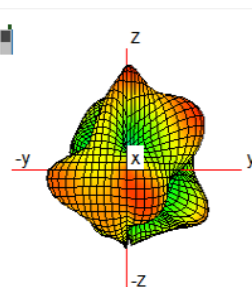
Zoom Scale



Phi

Azimuth: 0
Elevation: 0
Roll: 0

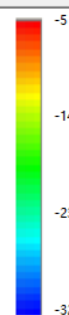
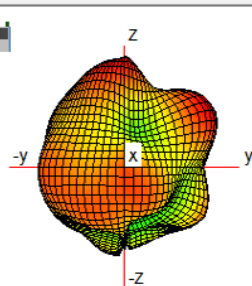
Zoom Scale



Total

Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale





3. Main Test Instruments

Name	Manufacturer	Model name	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	2025-4-6	2026-4-6
CMW 270	ROHDE&SCH WARZ	CMW 270	2025-4-6	2026-4-6

4. The name of the test software

GTS MaxSign- RayZone2800D_Z

5. Engineer's signature

A photograph of a piece of paper with the handwritten signature 'Zhao Chumeng' in black ink.



End of Test Report