

# Antenna specification Description

**Applicant: Xiaomi Communications Co., Ltd**

**Product description: Mobile Phone**

**Model Name: 24115RA8EG**

**FCC ID: 2AFZZRA8E**

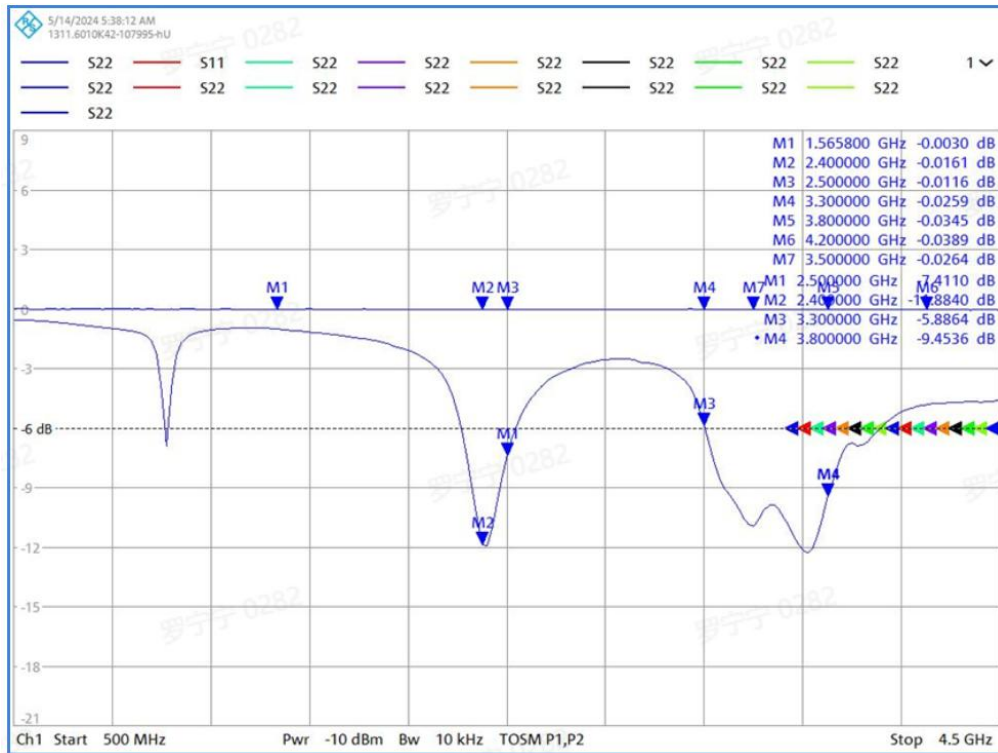
Antenna	Model Name	Antenna Type	Manufacturer
ANT7/15	O16U-ANT7/ O16U-ANT15	PIFA Antenna	Huizhou Winone Precision Technology Co., Ltd.  -Dongpo Avenue, Yuanzhou Town, Boluo County, Huizhou City, Sunwoda Industrial Park. Lingyi iTECH (Dongguan) Co. ,Ltd.  -No. 1 Gaoxin Road, Tiankeng, Hengli Town, Dongguan City, Guangdong Province
ANT9/11	O16U-ANT9/ O16U-ANT11	PIFA Antenna	Huizhou Winone Precision Technology Co., Ltd.  -Dongpo Avenue, Yuanzhou Town, Boluo County, Huizhou City, Sunwoda Industrial Park. Lingyi iTECH (Dongguan) Co. ,Ltd.  -No. 1 Gaoxin Road, Tiankeng, Hengli Town, Dongguan City, Guangdong Province

NFC <b>36.6mm×3 6.6mm×0. 24mm)</b>	O16U-NFC	Coil Antenna	Kunshan Innowave Communication Technology Co.,Ltd; Building H, Jindu Intelligent Garden, Shengchuang Road, Yushan Town, Kunshan City, Suzhou City, Jiangsu Province
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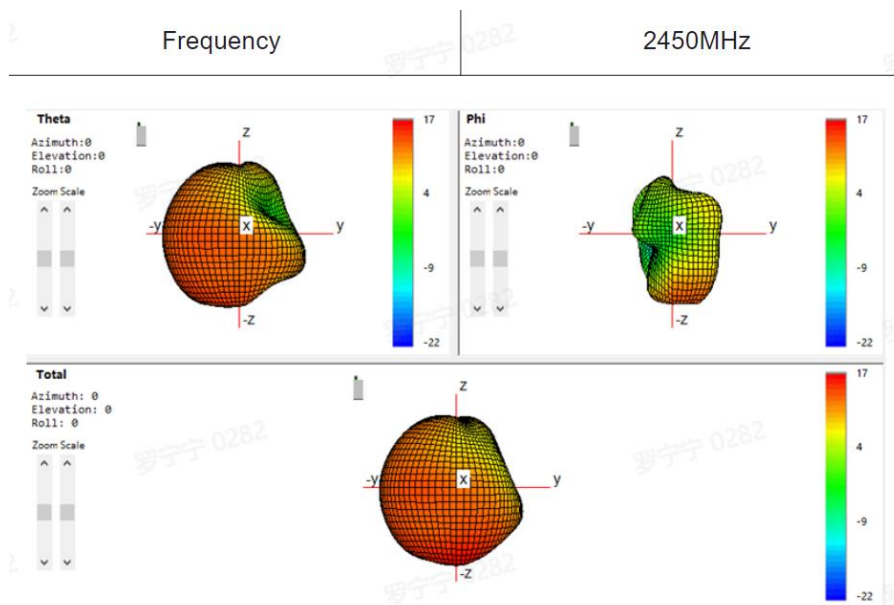
ANT7	WiFi2.4G 0+BT 0
ANT15	WiFi 5G 0 + WiFi 6G 0
ANT9	WiFi2.4G1+BT1
ANT11	WiFi 5G 1 + WiFi 6G 1

# ANT7:

Band	ant 7	
	Effi.(dBi)	peak gain(dBi)
2.4G/BT	-5.6	-2.5



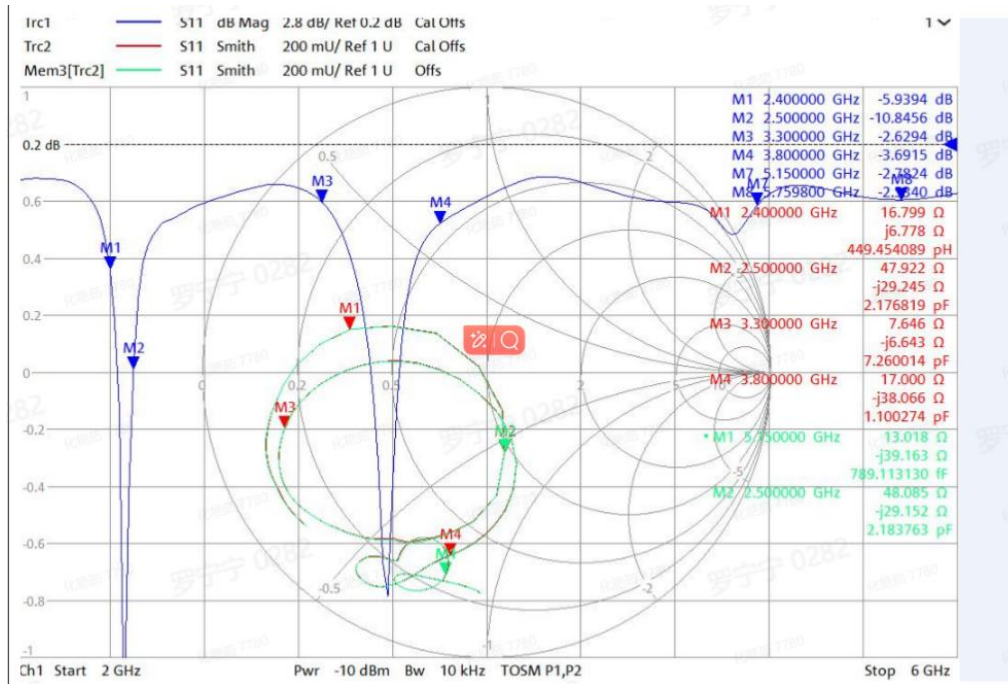
## 2.4G



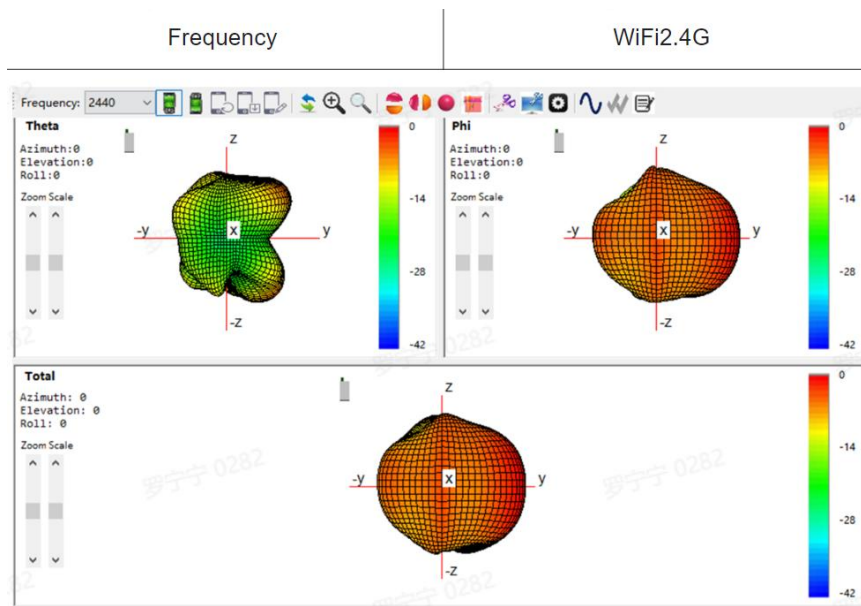
# ANT9:

Band	ant9	
	Effi.(dBi)	peak gain(dBi)
2.4G/BT	-5dB	-1.1

## ANT9:

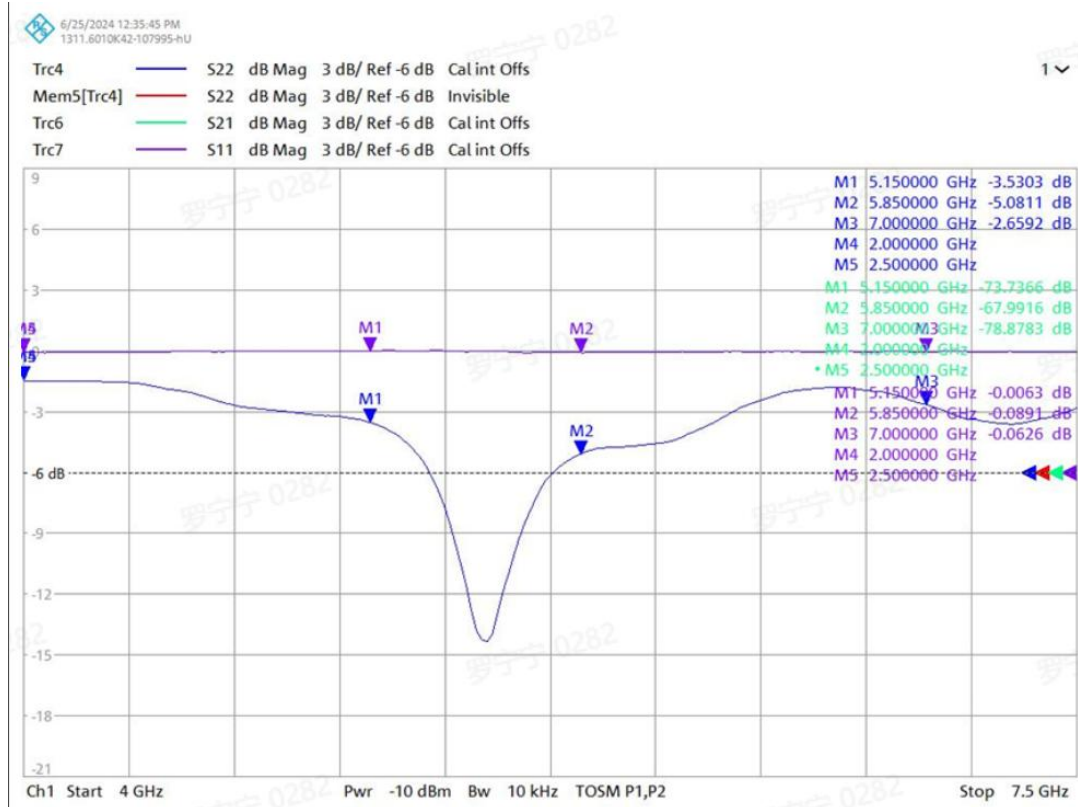


## 2.4G:



# ANT11:

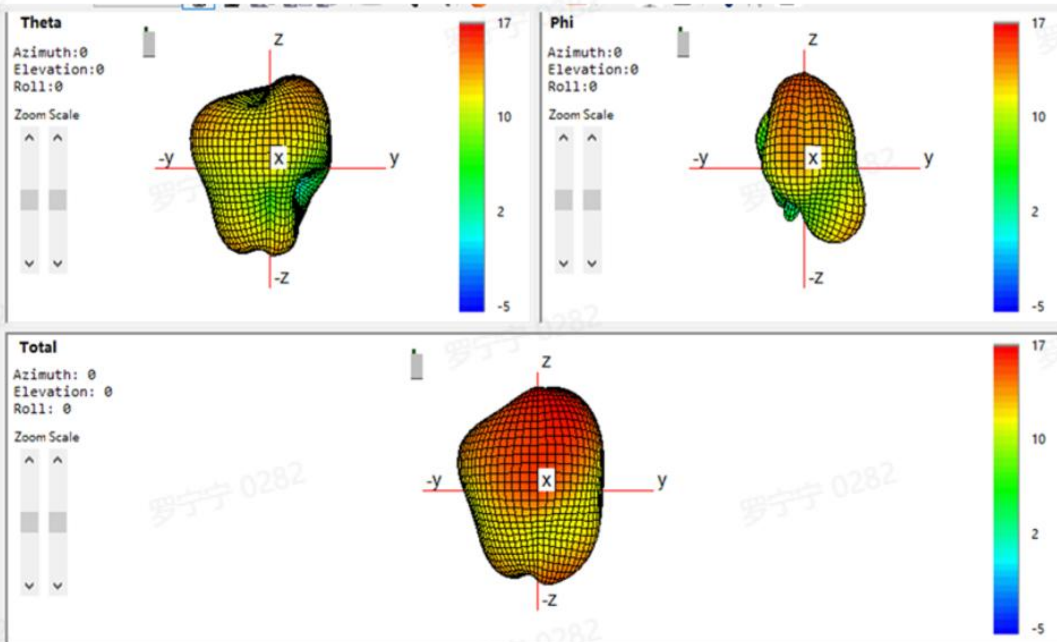
Band	ant11	
	Effi.(dBi)	peak gain(dBi)
5G (5.15-5.25GHZ)	-6.4	-2.8
5G (5.25-5.35GHZ)	-6	-1.6
5G (5.47-5.725GHZ)	-6.7	-1.7
5G (5.725-5.85GHZ)	-6.3	-1.7
6G(5.925-6.425GHz)	-6	-1.9
6G(6.425-6.525GHz)	-6.5	-3.5
6G(6.525-6.875GHz)	-6.2	-1.2
6G(6.875-7.125GHz)	-7	-1.9



5G:

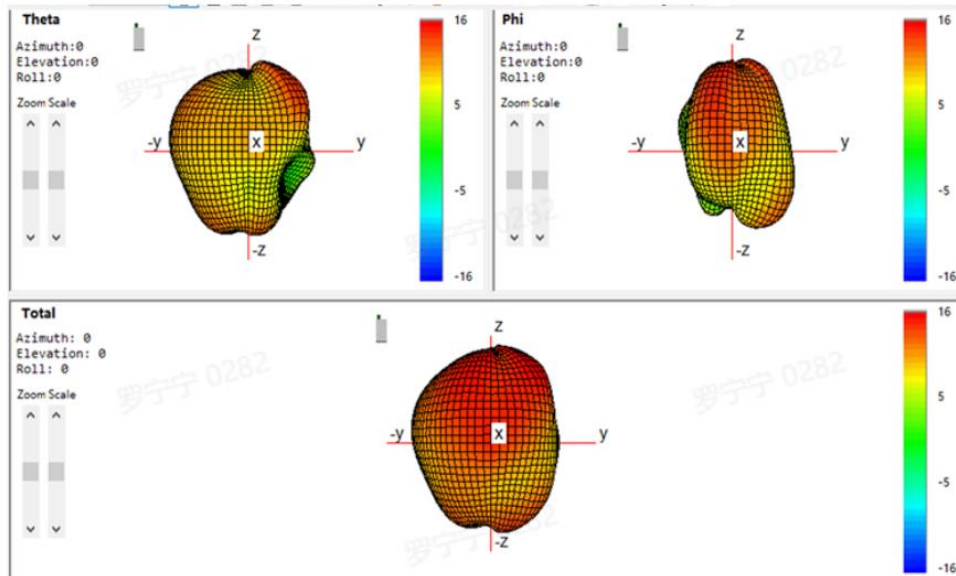
Frequency

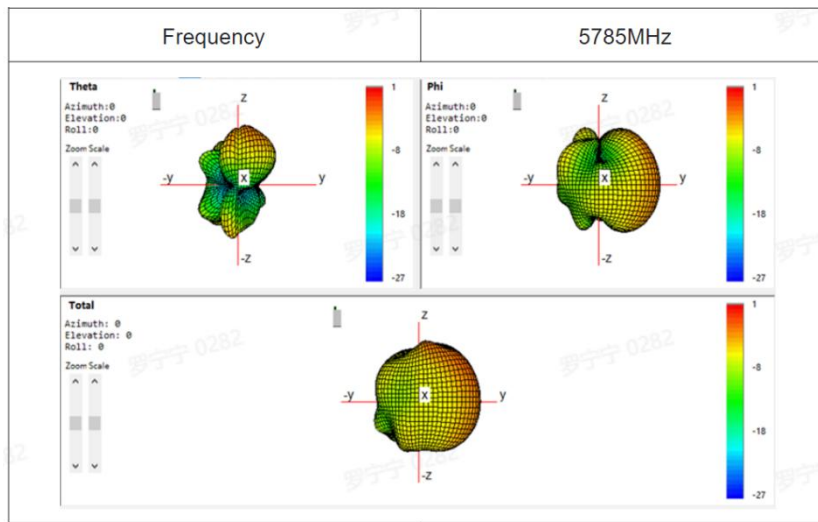
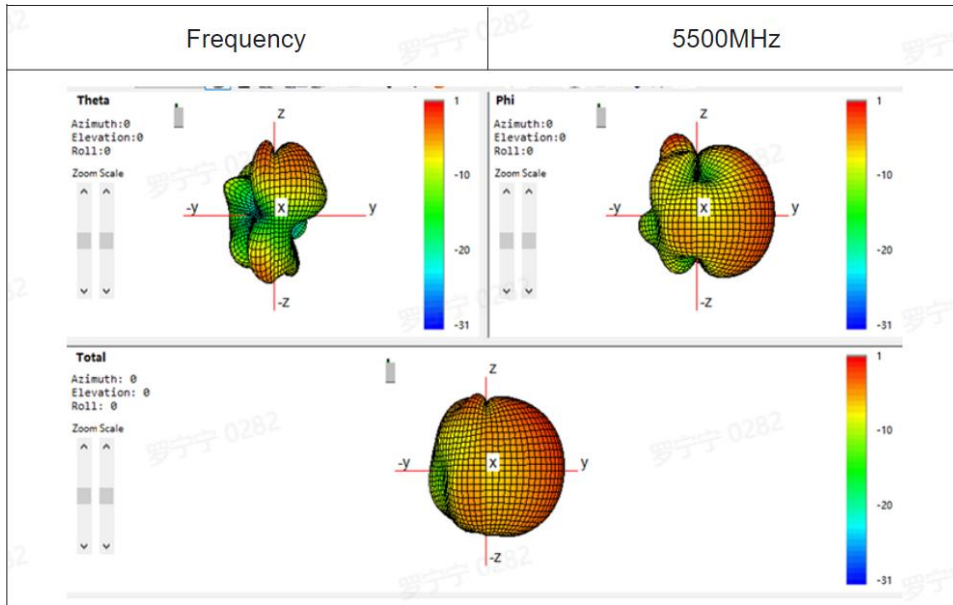
5180MHz



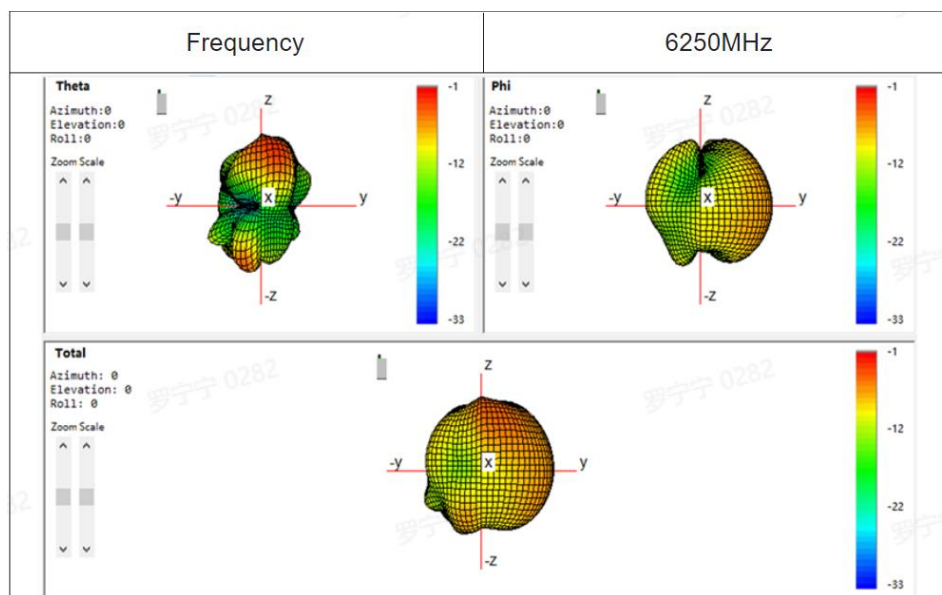
Frequency

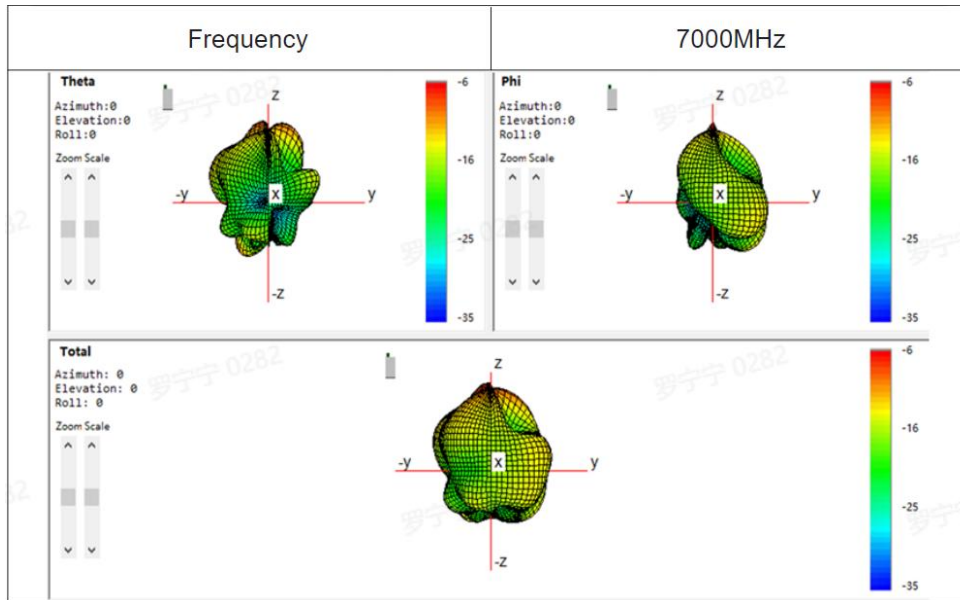
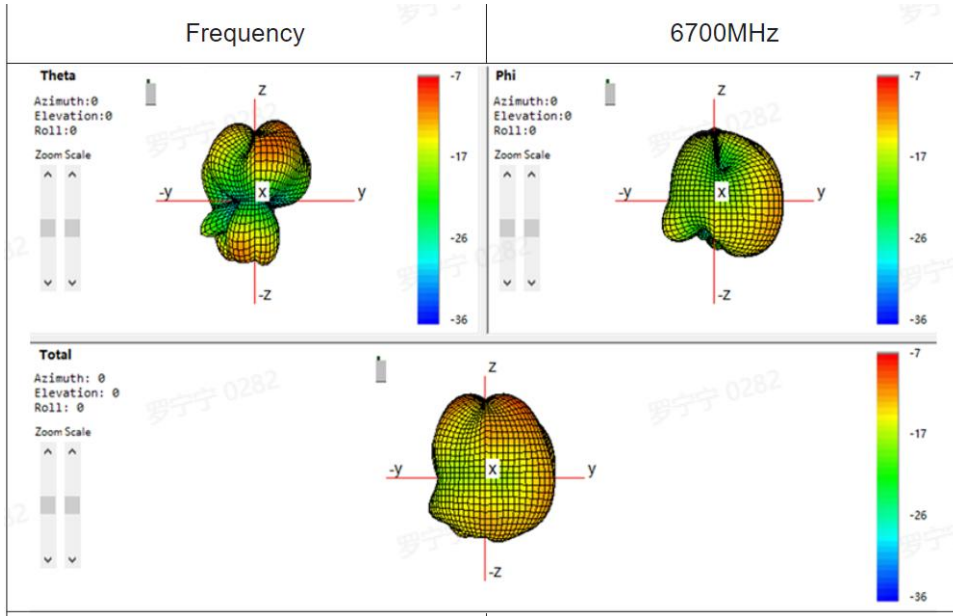
5280MHz





6G:

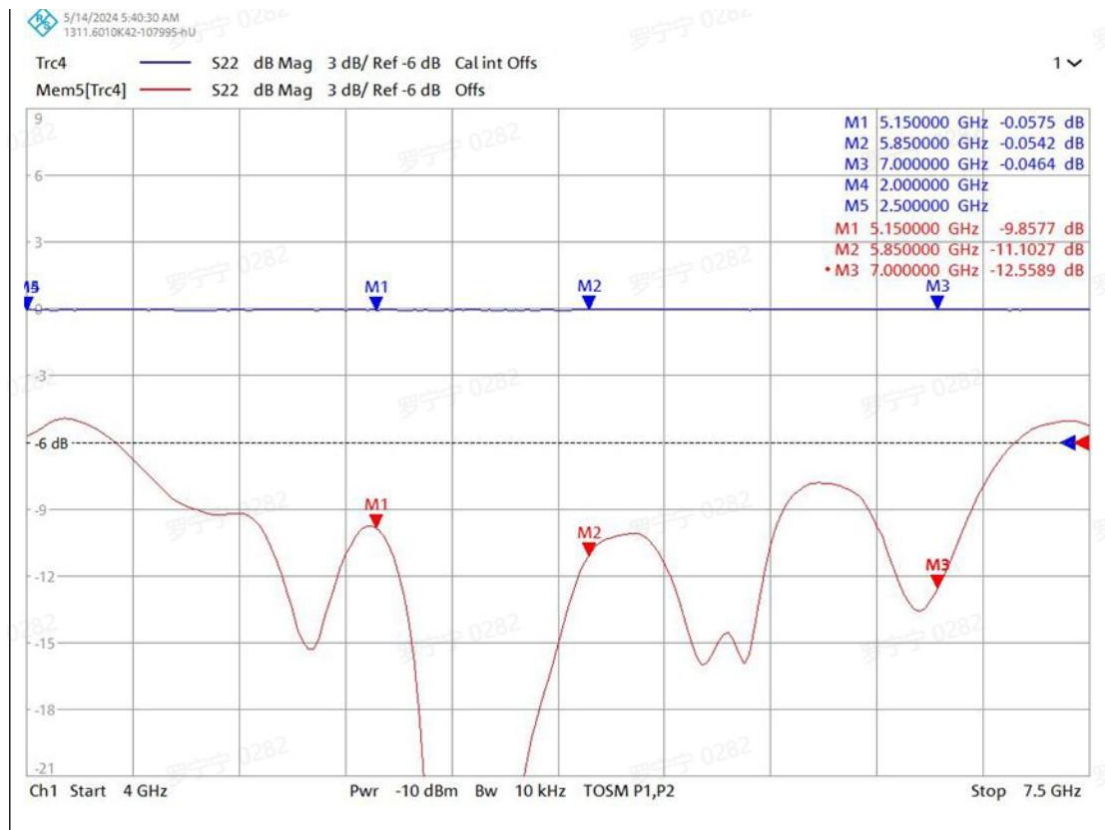






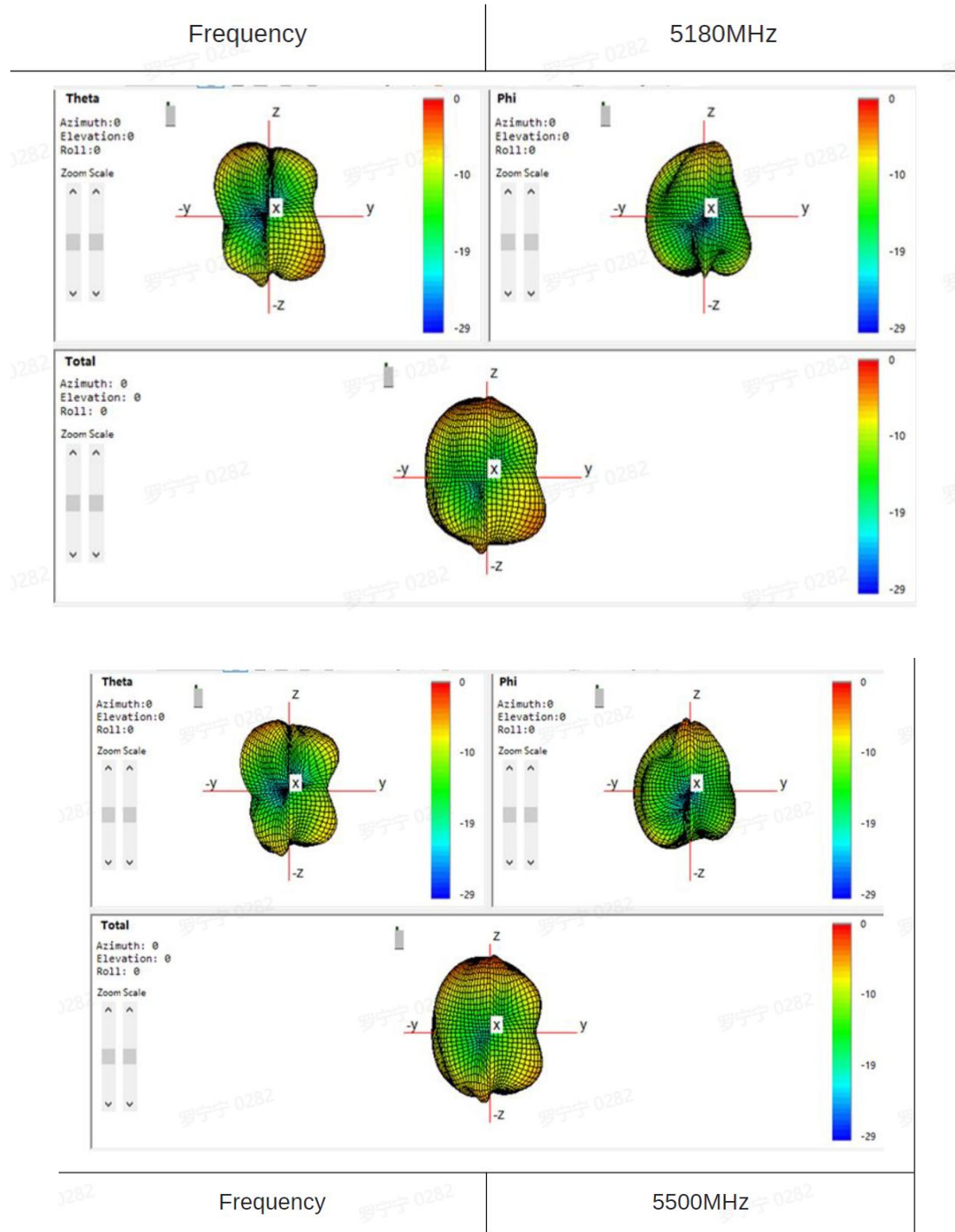
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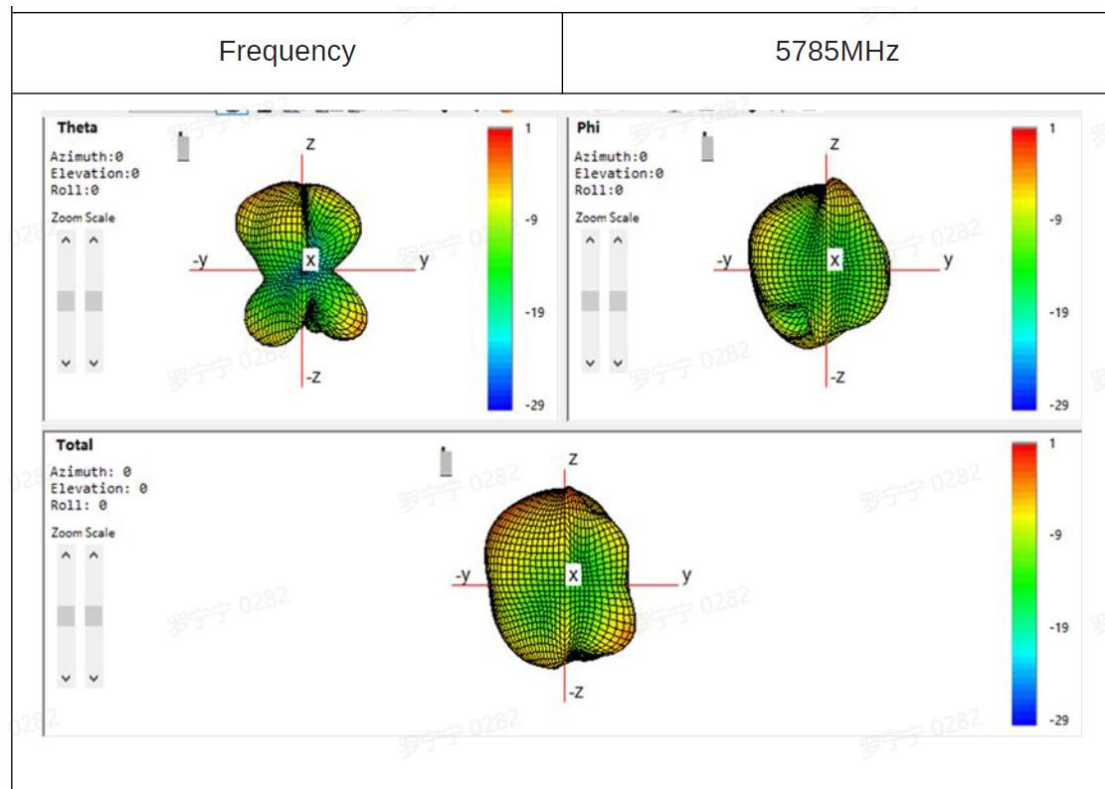
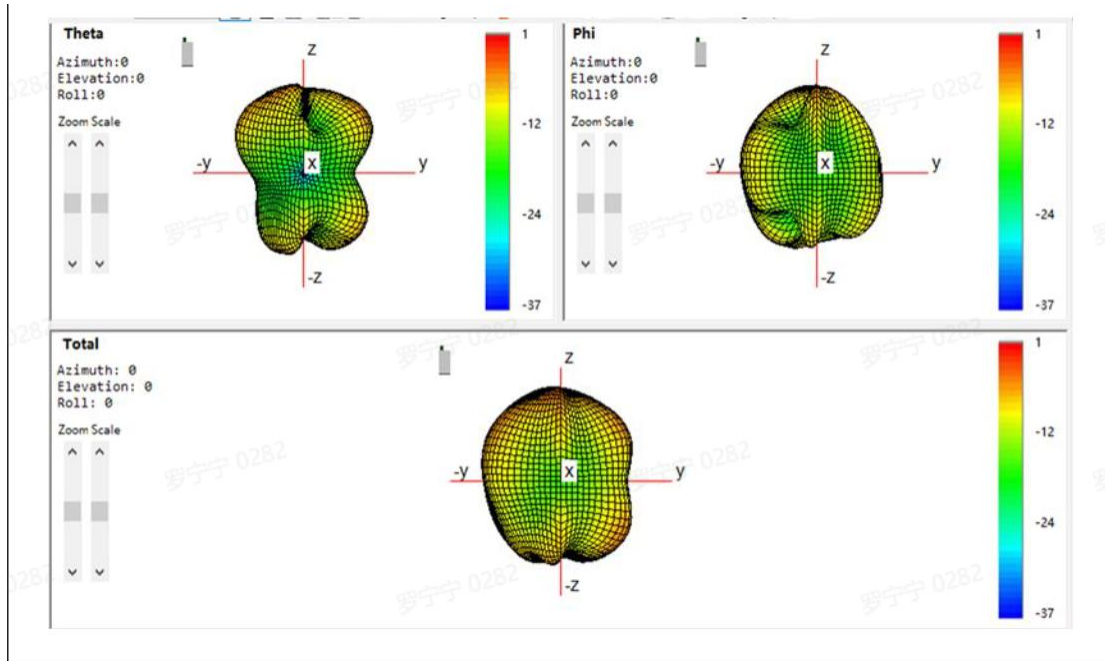
Band	ant 15	
	Effi.(dBi)	peak gain(dBI)
5G (5.15-5.25GHZ)	-5.3	0.08
5G (5.25-5.35GHZ)	-5.4	0.02
5G (5.47-5.725GHZ)	-4.3	0.2
5G (5.725-5.85GHZ)	-4.5	0.77
6G(5.925-6.425GHz)	-5.2	0.13
6G(6.425-6.525GHz)	-5.5	-2.2
6G(6.525-6.875GHz)	-6.3	-1.1
6G(6.875-7.125GHz)	-8.3	-2.3



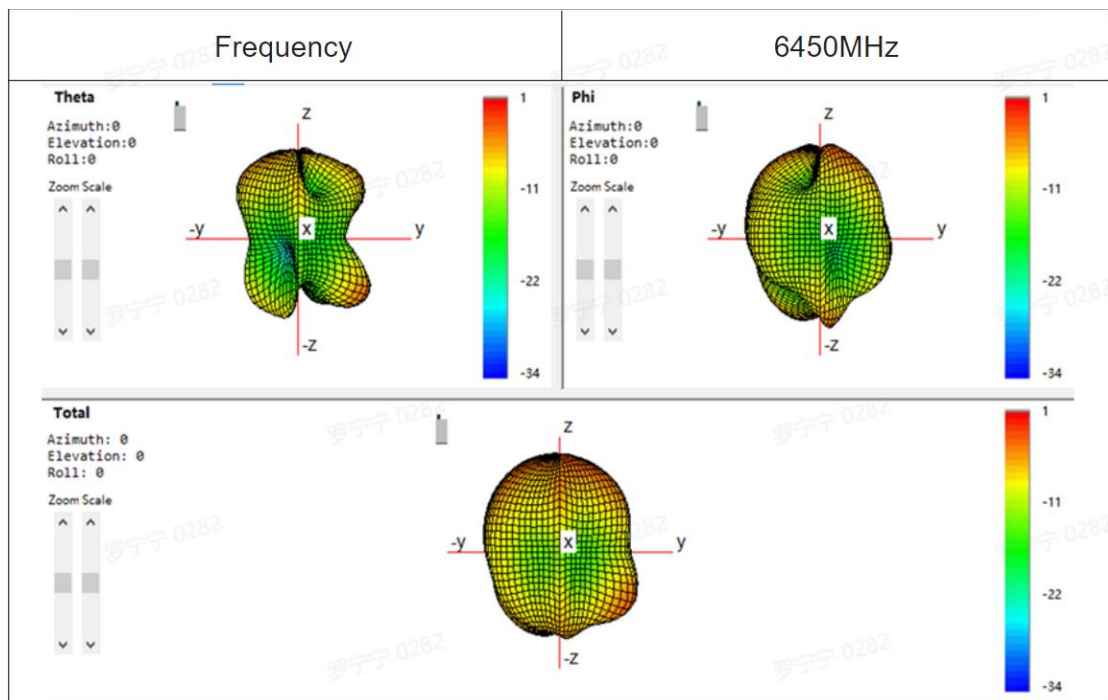
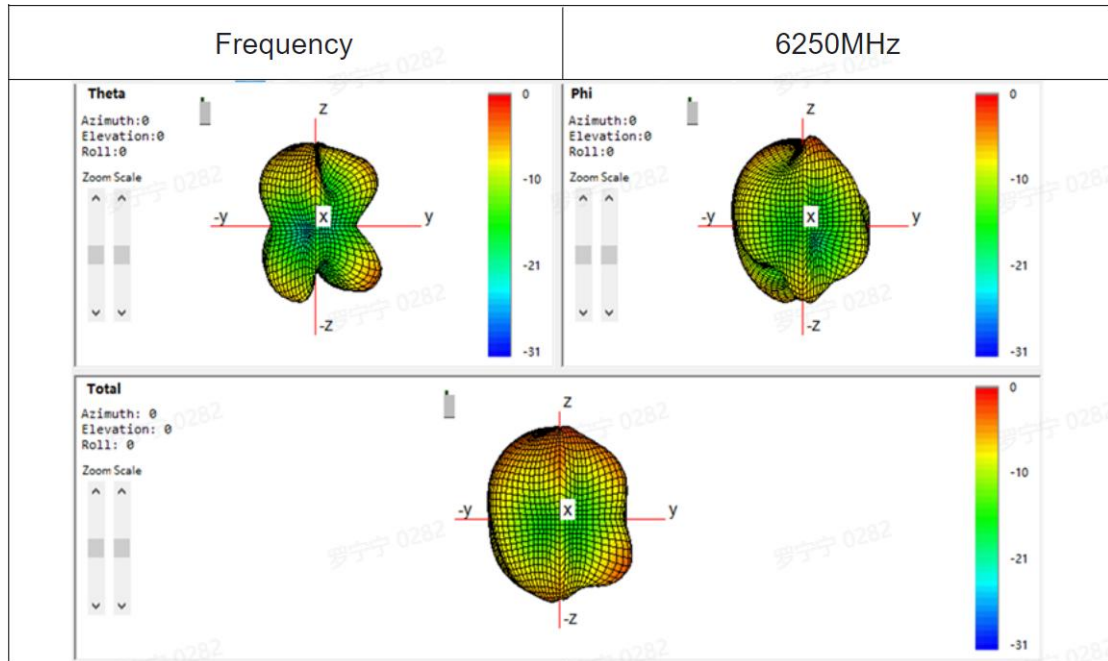
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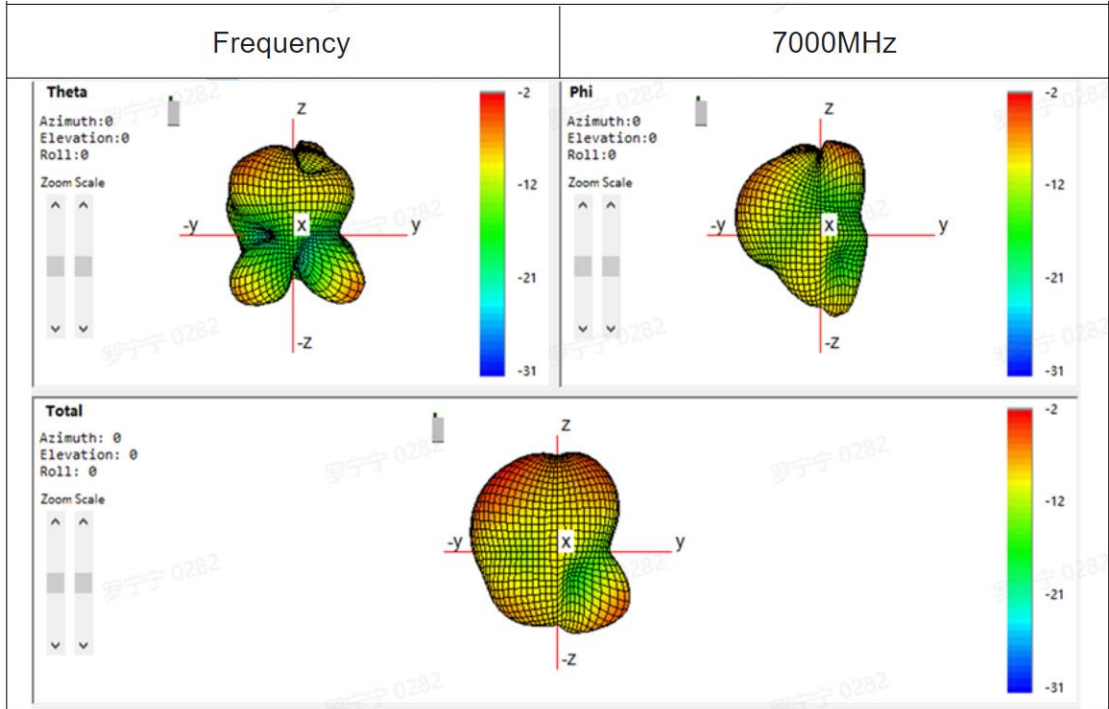
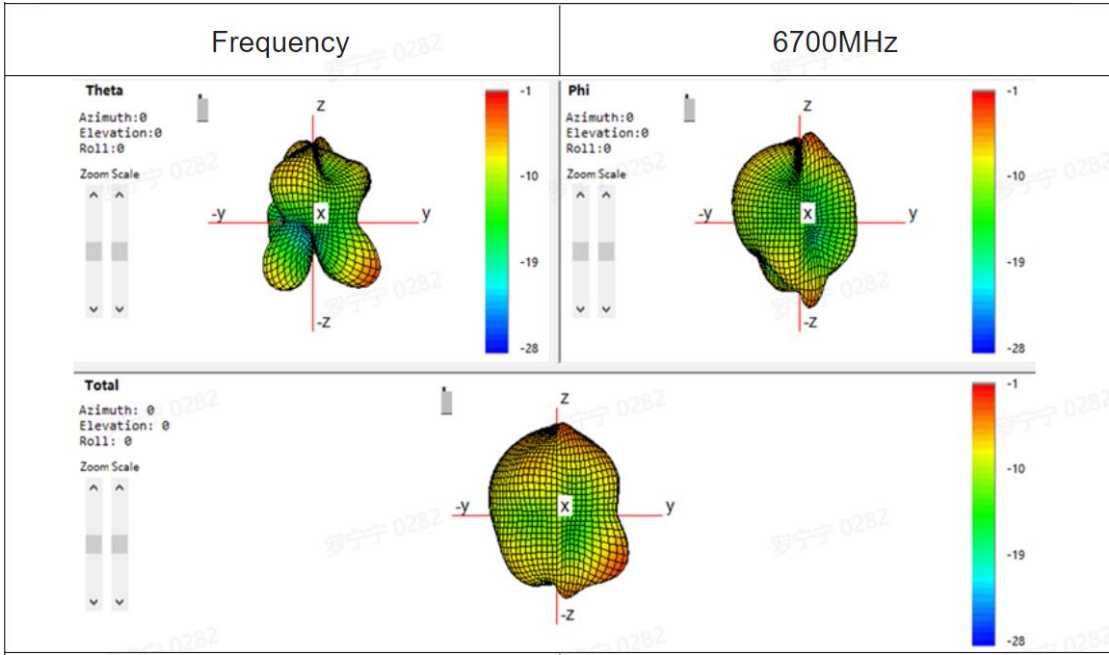
5G





6G





## Main Test Instruments:

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
2G/3G/4G Vector Network Analyzer	KEYSIGHT	E5071C	My46733920	2024/07/20	2025/07/20
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	CT10120480B5054	2024/07/20	2025/07/20

Antenna test environment

