

Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 25069PTEBG

FCC ID: 2AFZZPTEBG

Test date: 2025/05/12

1. Antenna information

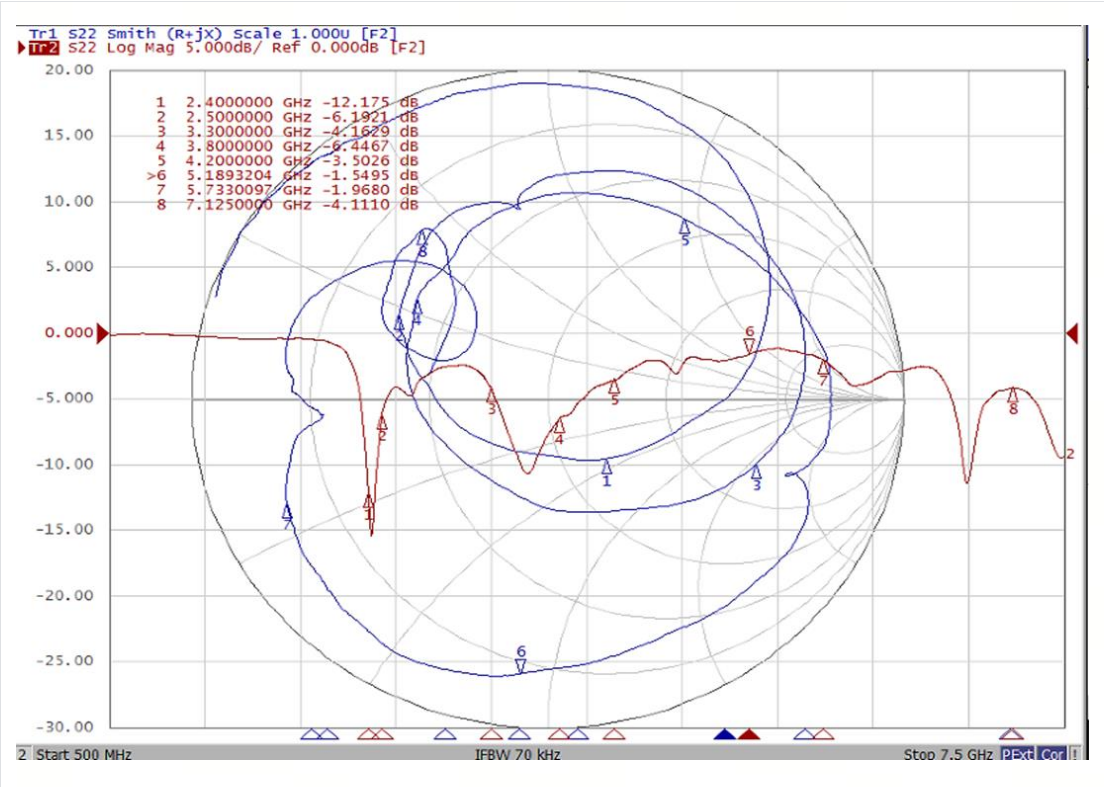
Antenna	Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT8	Metal Frame	Fixed Internal Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT16	Metal Frame	Fixed Internal Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	Fixed Internal Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT18	Metal Frame	Fixed Internal Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
NFC	FPC	FPC+Frame	Shenzhen Deman Electronics Technology Co.,LTD XIAOMI	3rd Floor, Building C, Shunluo Industrial Park, Dafuyuan Industrial Zone, Guanlan Street, Longhua New District, Shenzhen Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.

2. Test data

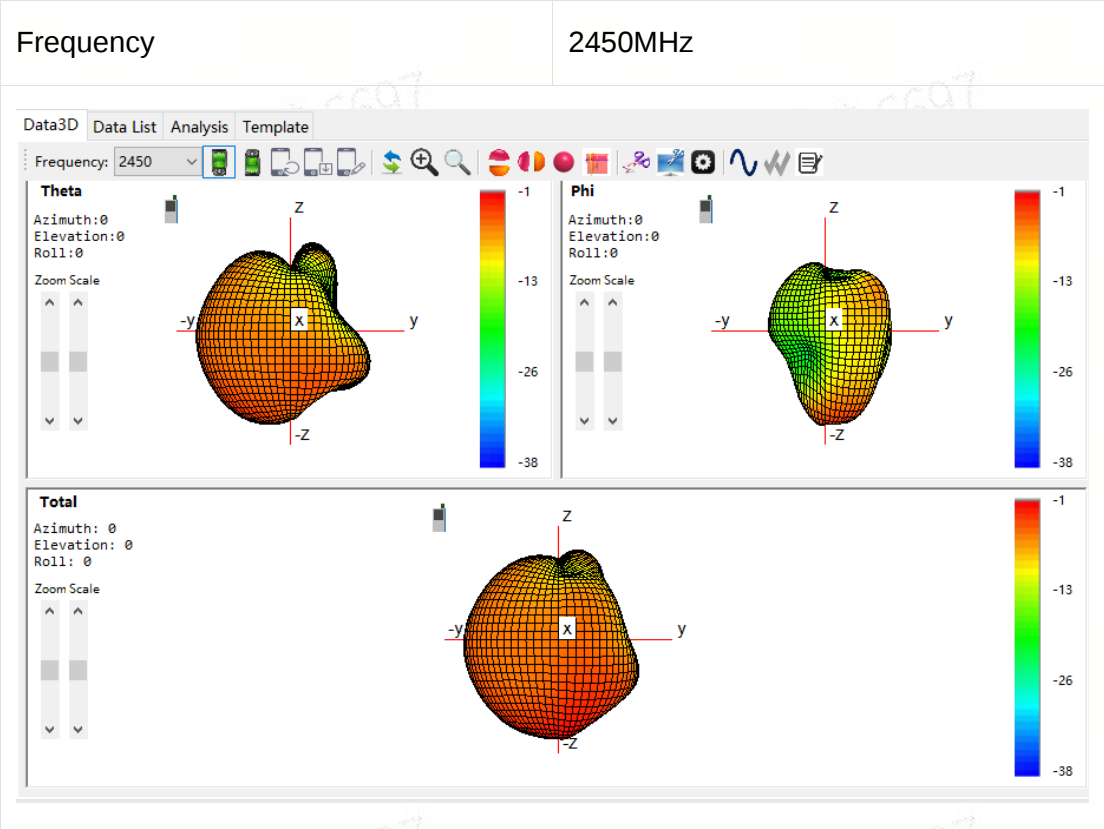
Antenna 8

Band for Antenna 8	WIFI_2.4G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)	-5.35	-1.19

S 参数



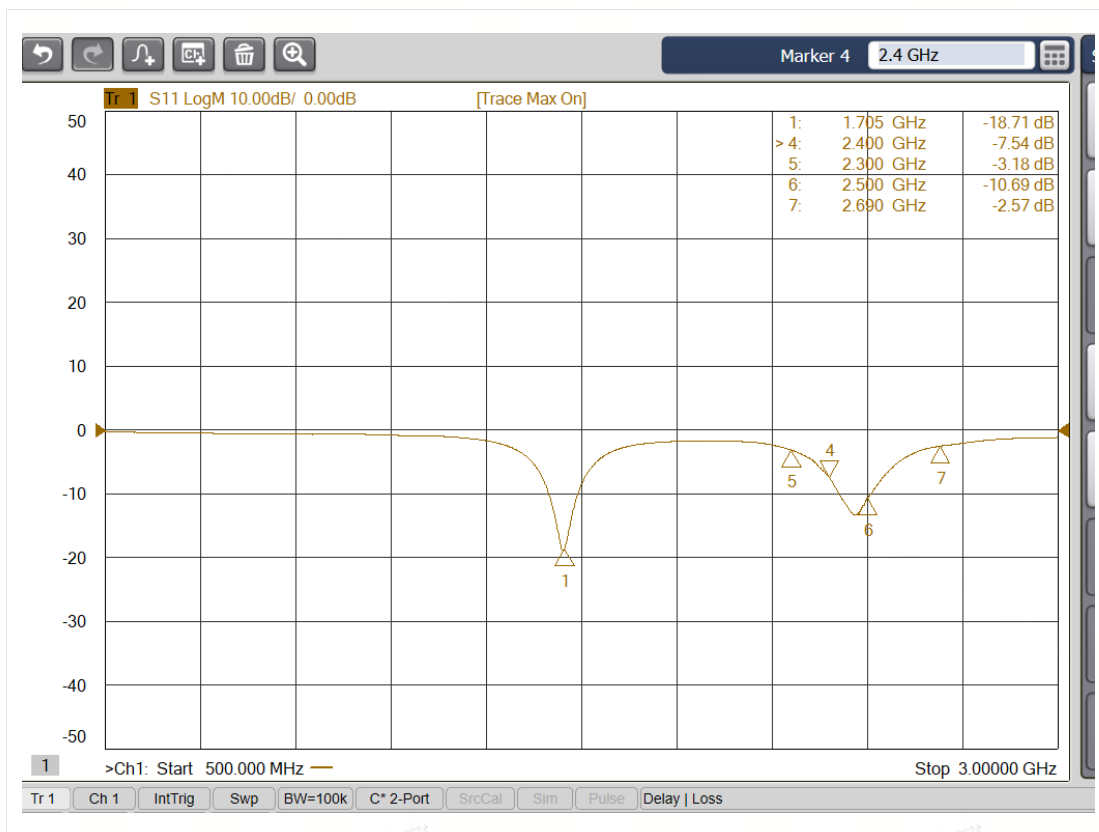
方向图



Antenna 16

Band for Antenna 16	WIFI_2.4G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G (2400~2485MHz)	-6.2	-2.18
Bluetooth	-6.2	-2.18

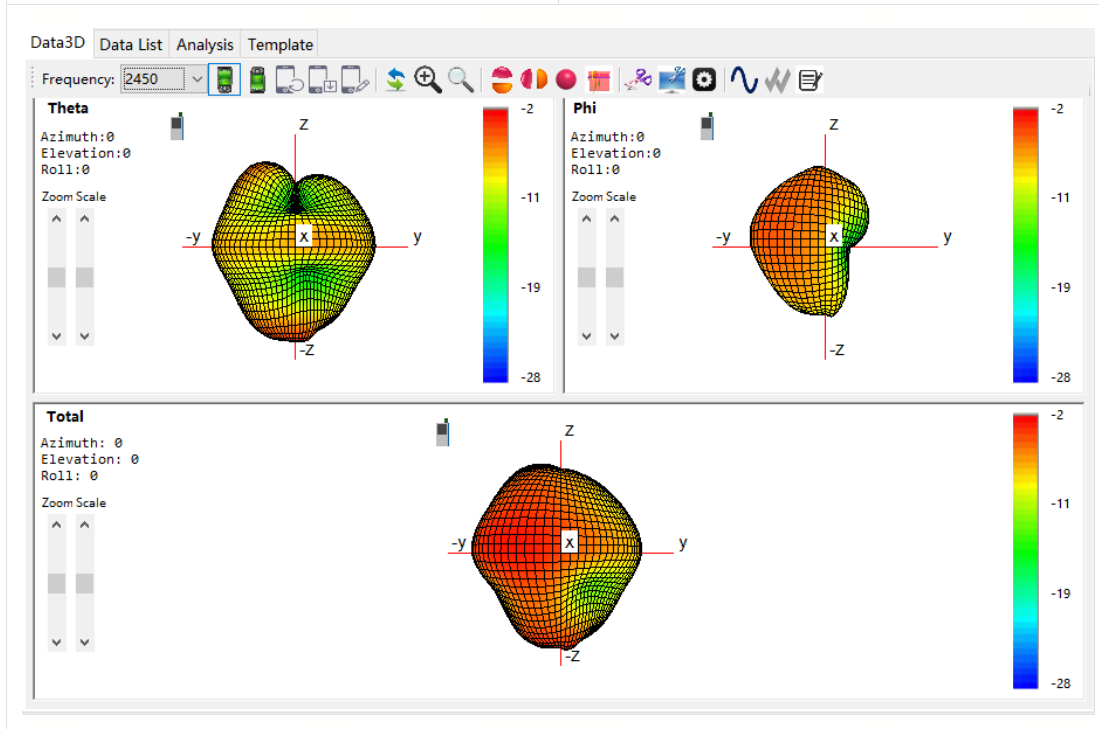
S 参数



方向图

Frequency

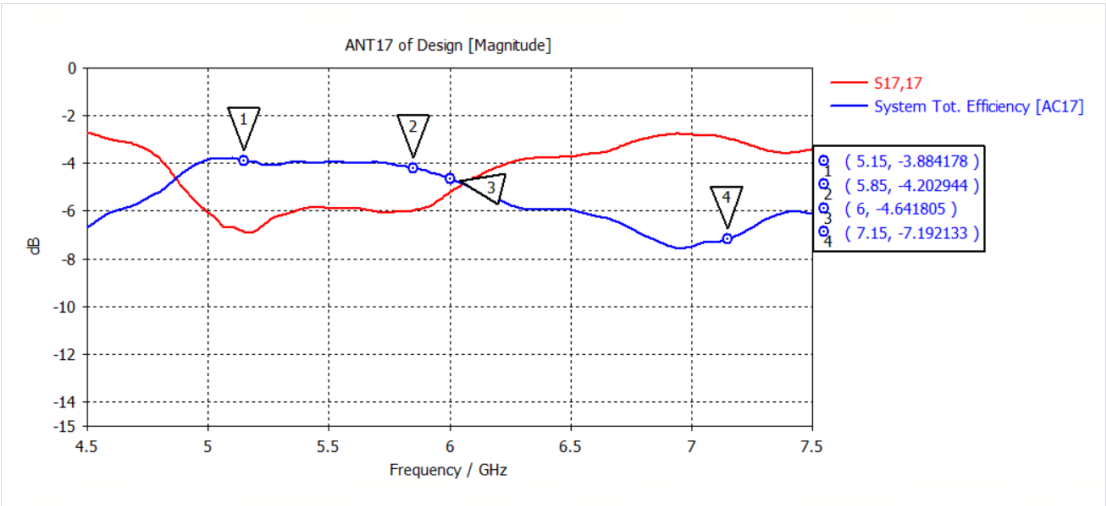
2450MHz



Antenna 17

Band for Antenna 17	WIFI_5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-4.8	0
5G (5250~5350MHz)	-4.5	-0.11
5G (5470~5725MHz)	-3.8	-0.01
5G (5470~5850MHz)	-3.9	-0.39
6G (5925-6425GHz)	-7	0
6G (6425-6525GHz)	-9.5	-0.8
6G (6525-6875GHz)	-9.3	-0.86
6G (6875-7125GHz)	-9.7	-2.8

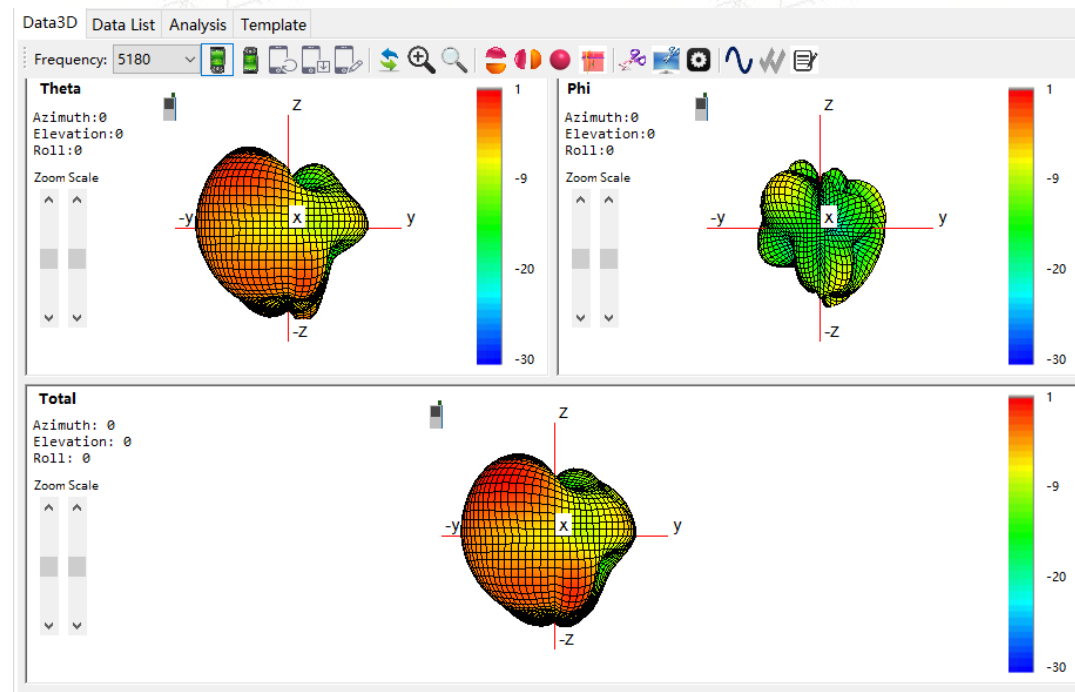
S 参数



方向图

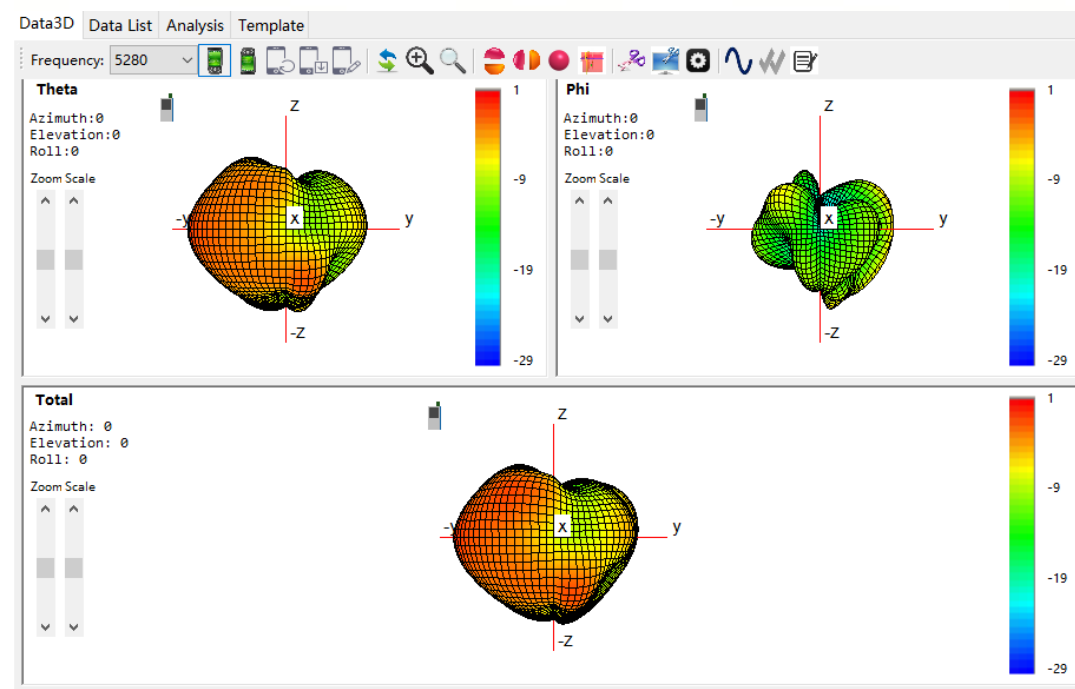
Frequency

5180MHz



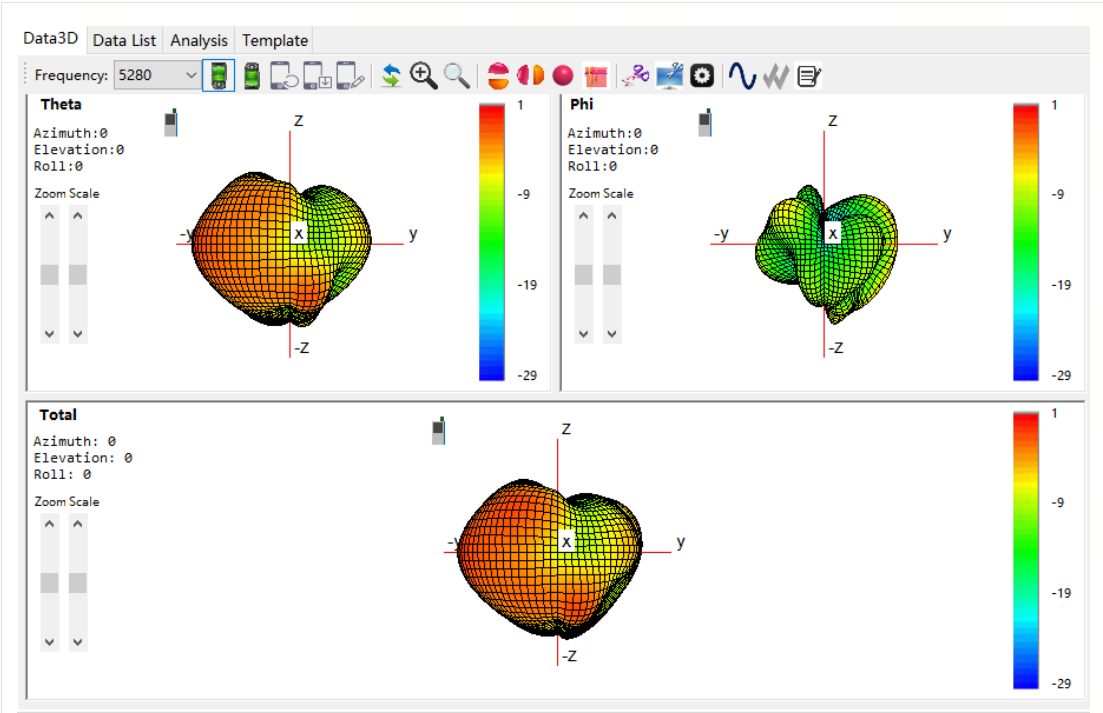
Frequency

5280MHz



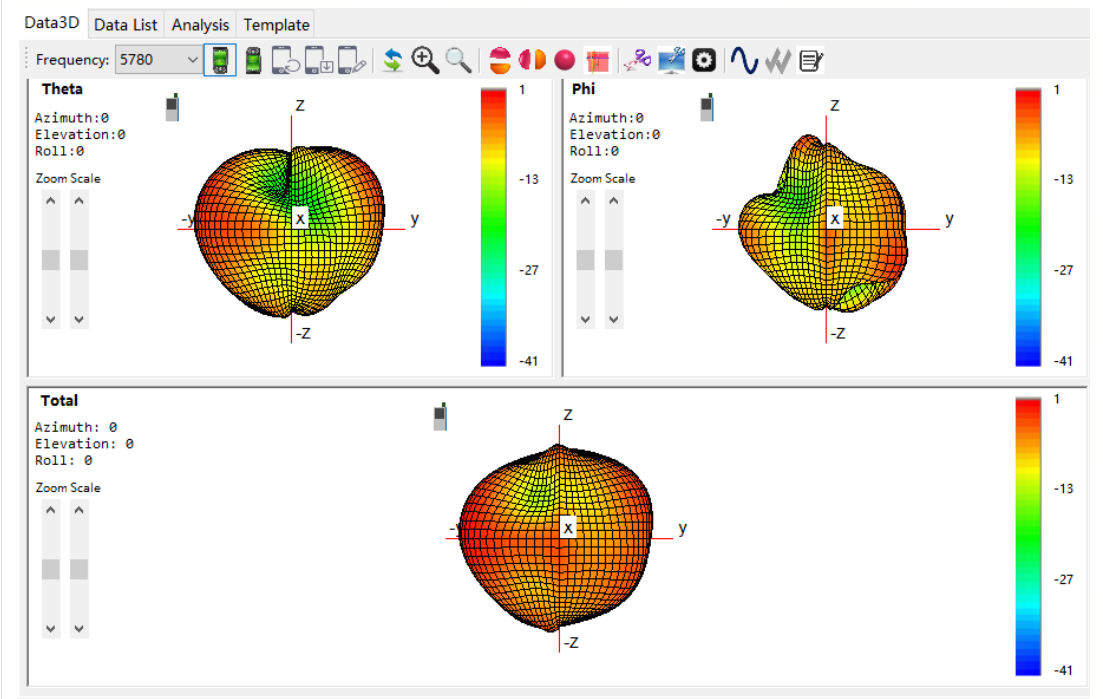
Frequency

5500MHz



Frequency

5785MHz

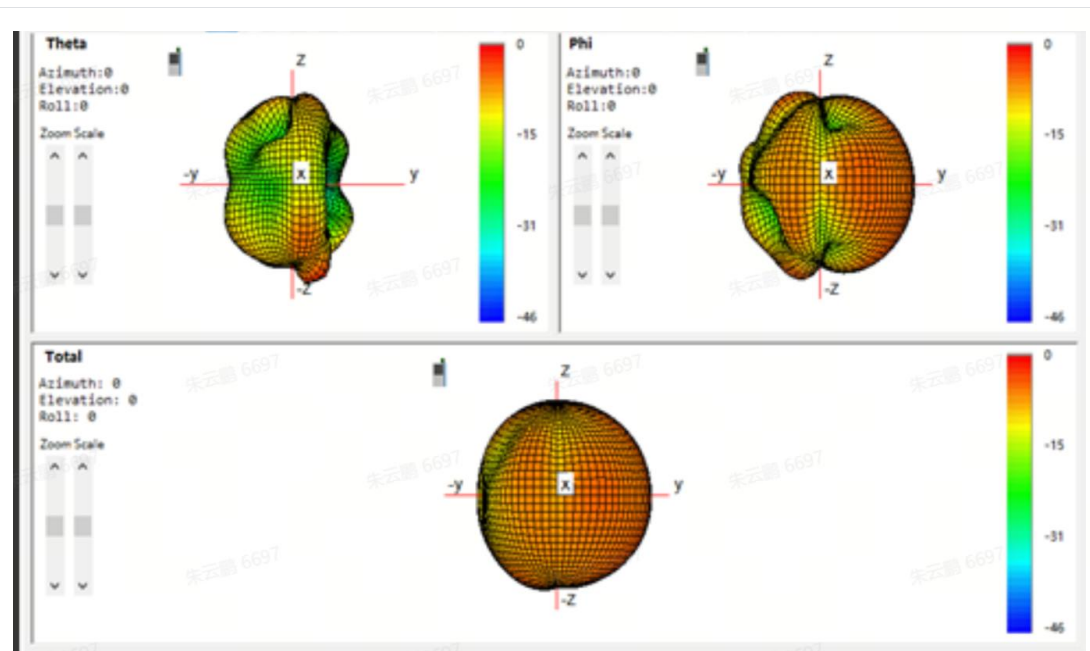


Frequency

6250MHz

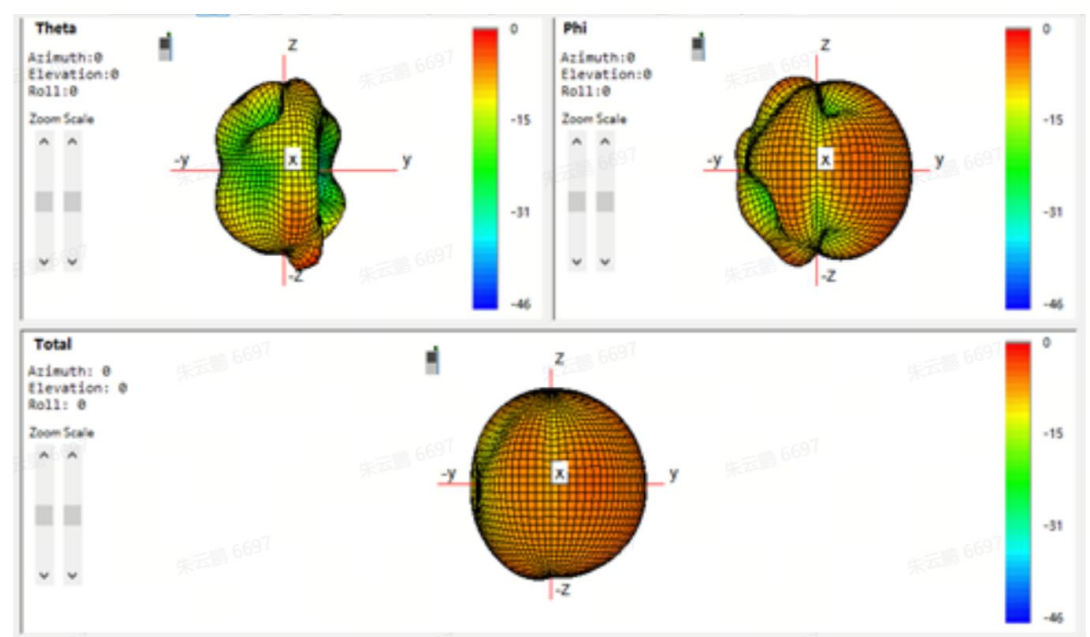
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Frequency

6450MHz

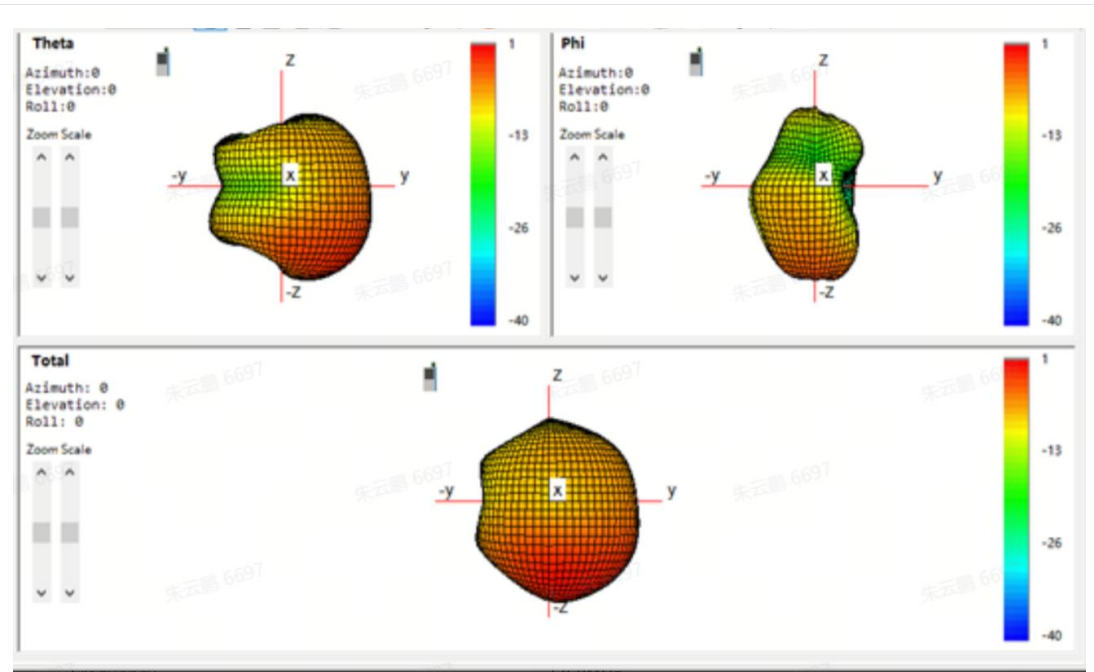


Frequency

6700MHz

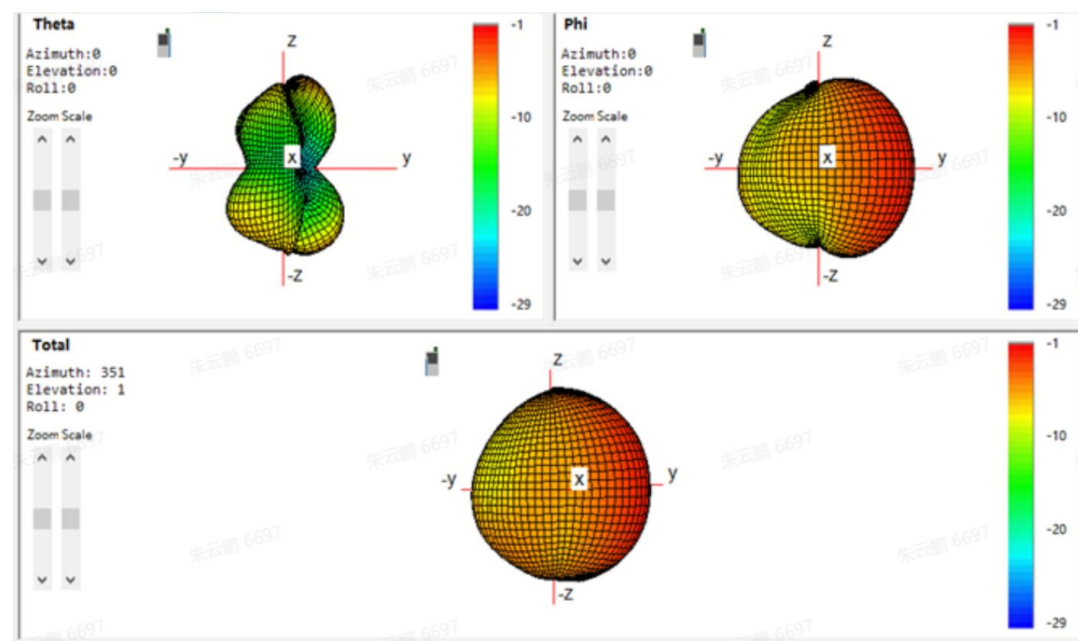
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Frequency

7000MHz

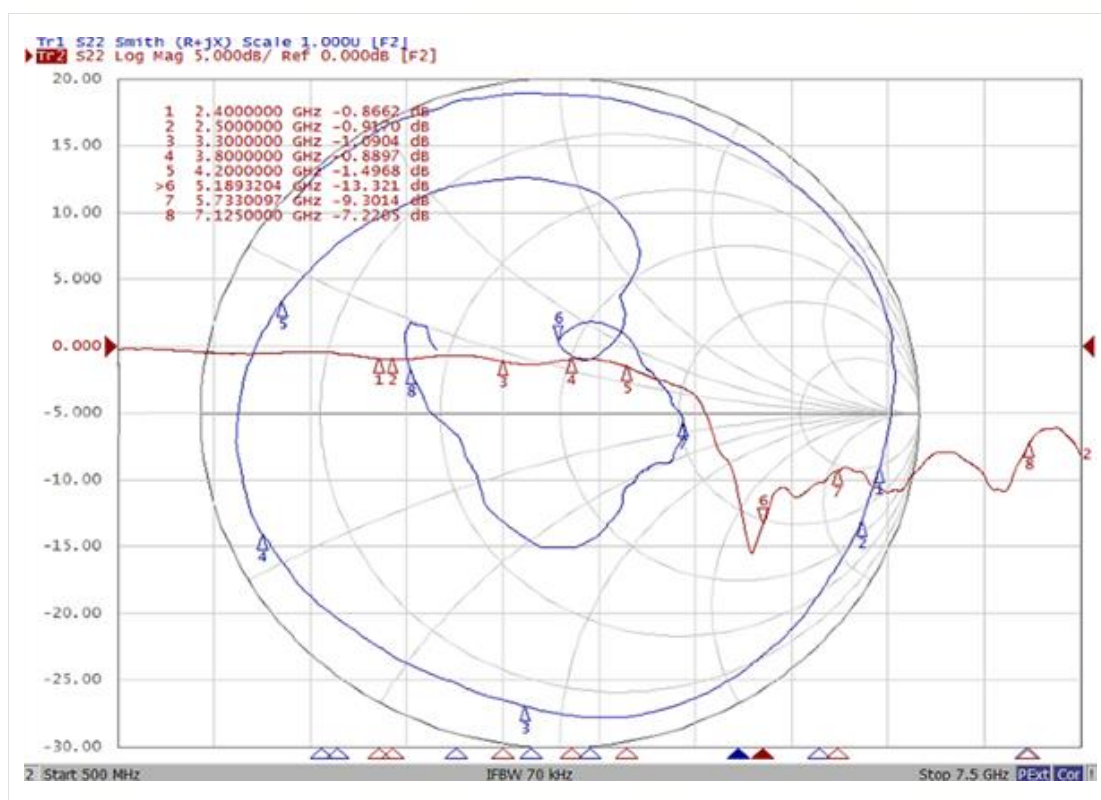


Antenna 18

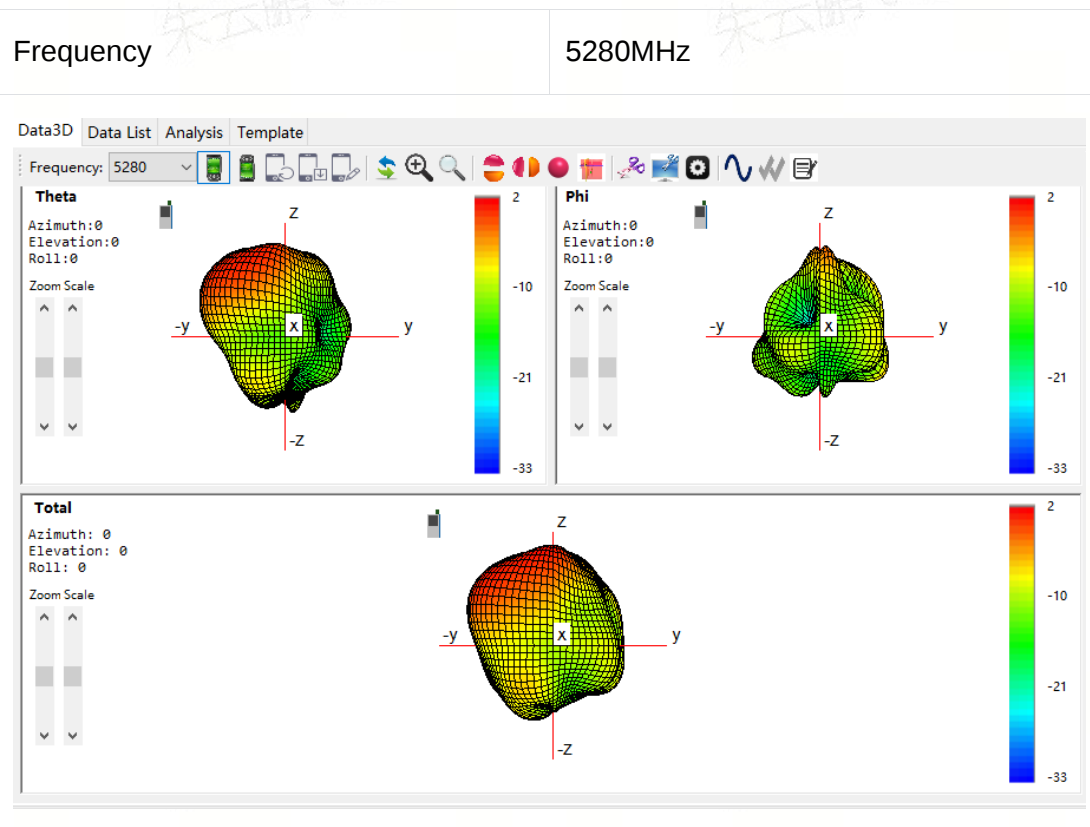
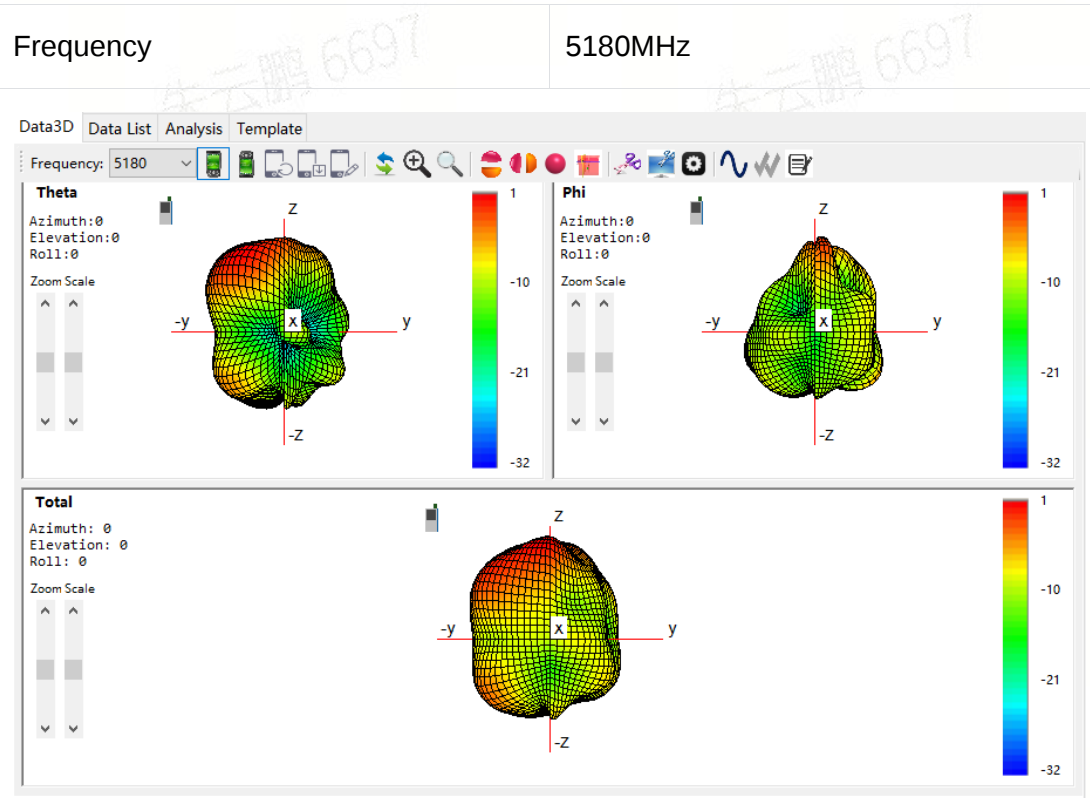
Band for Antenna 18	WIFI_5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-5.7	0

5G (5250~5350MHz)	-4.9	-0.19
5G (5470~5725MHz)	-5.2	-0.88
5G (5470~5850MHz)	-5.5	-2.11
6G (5925~6425GHz)	-5.8	0
6G (6425~6525GHz)	-6.7	-0.8
6G (6525~6875GHz)	-6.7	-0.86
6G (6875~7125GHz)	-7.7	-2.8

S 参数

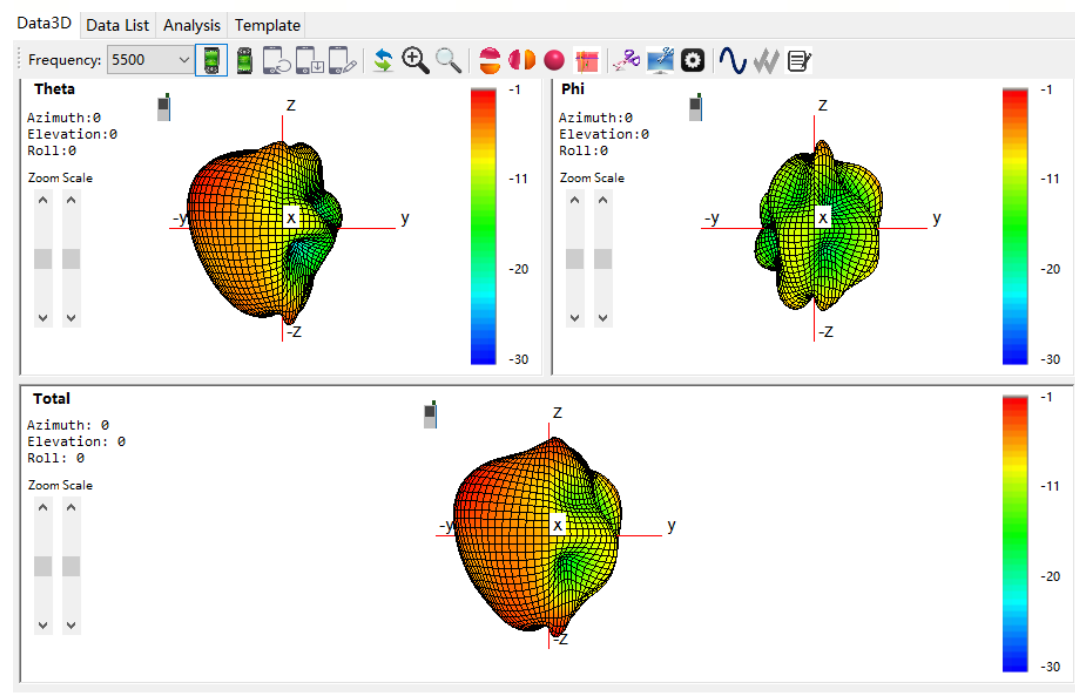


方向图



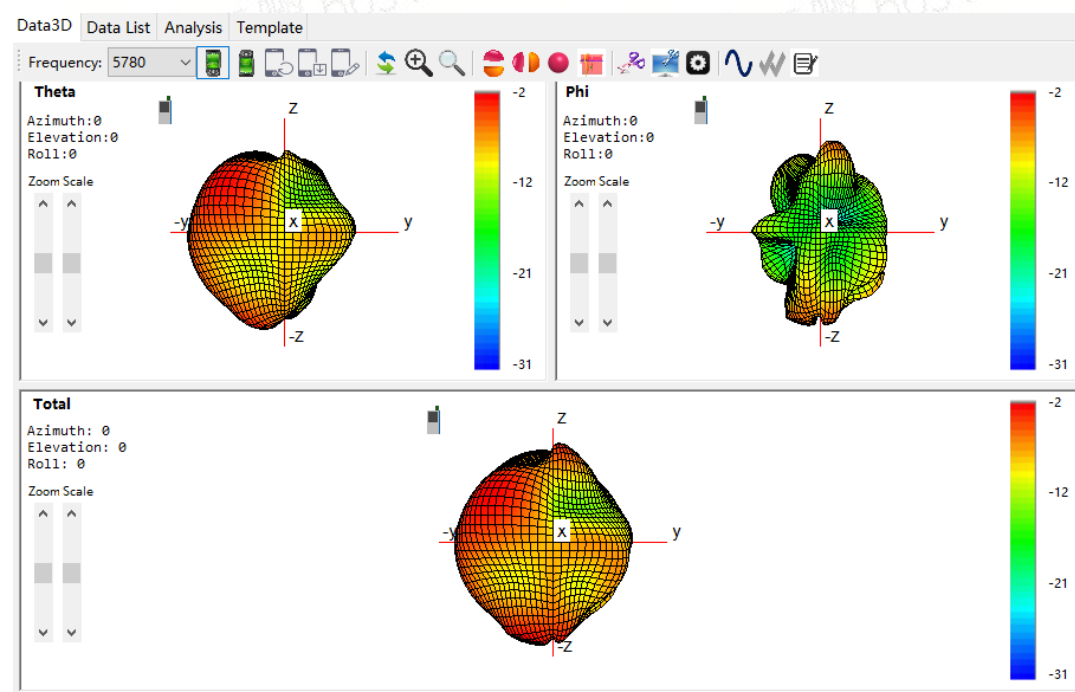
Frequency

5500MHz



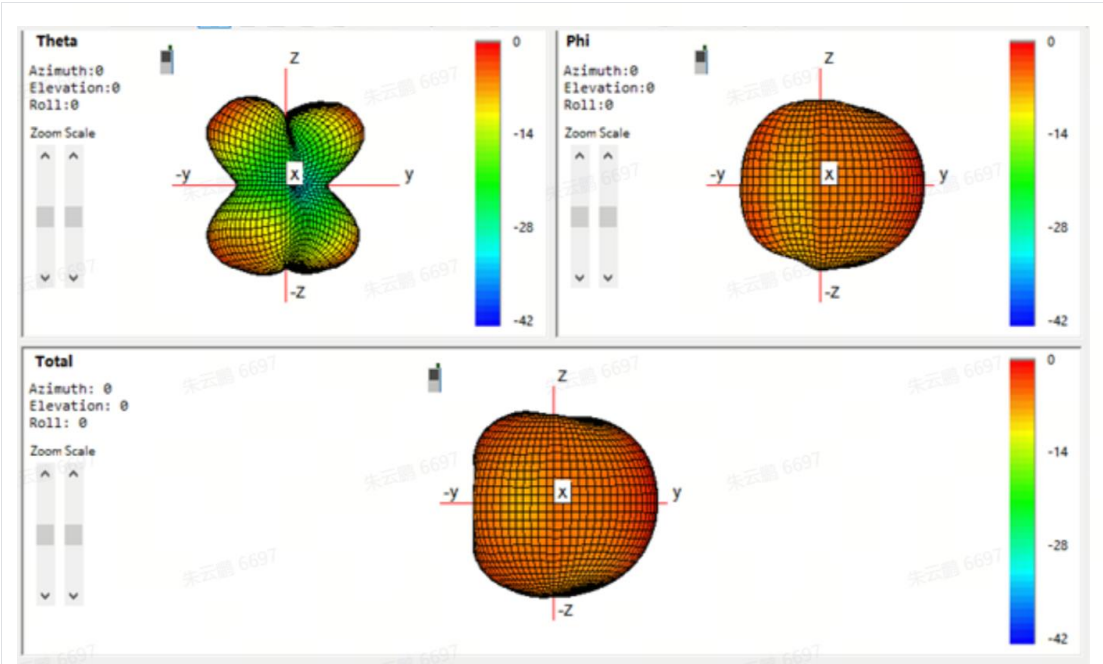
Frequency

5785MHz



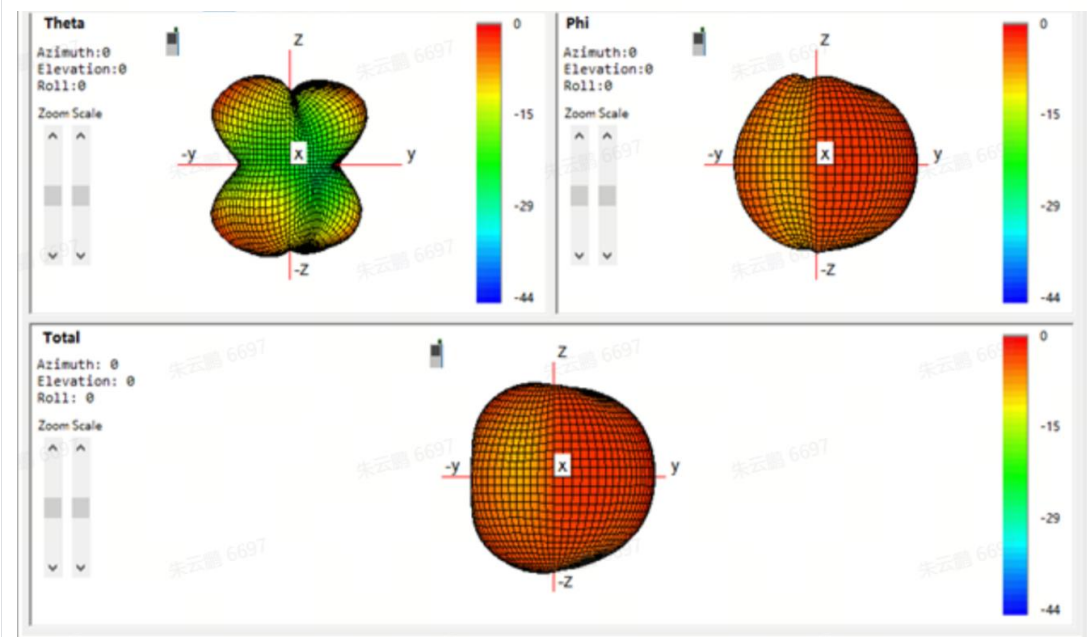
Frequency

6250MHz



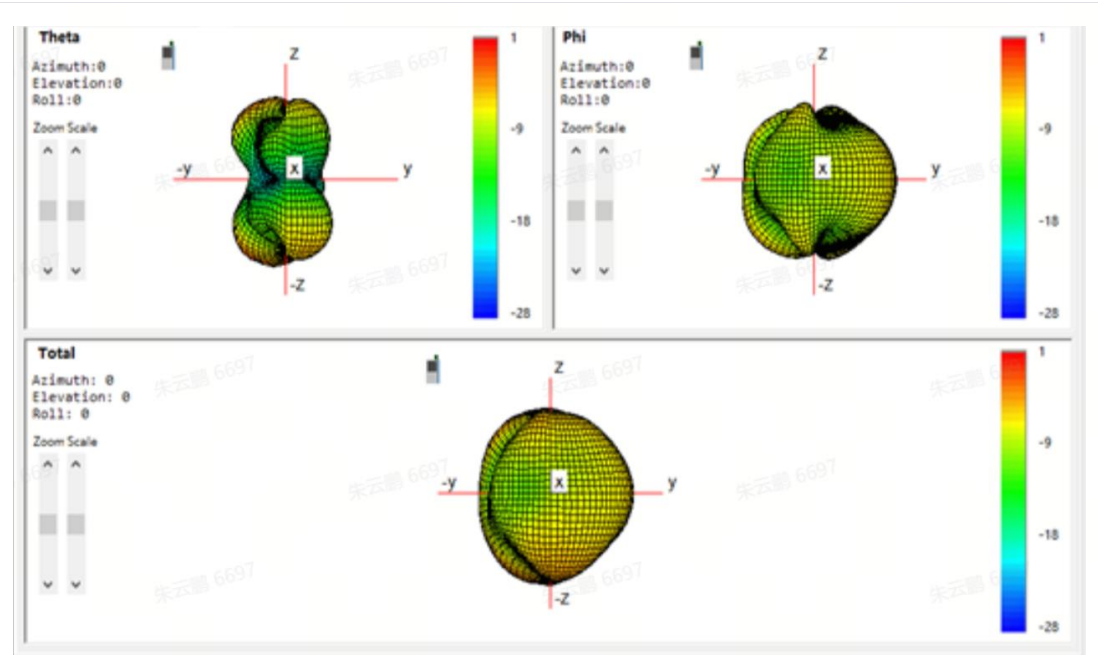
Frequency

6450MHz



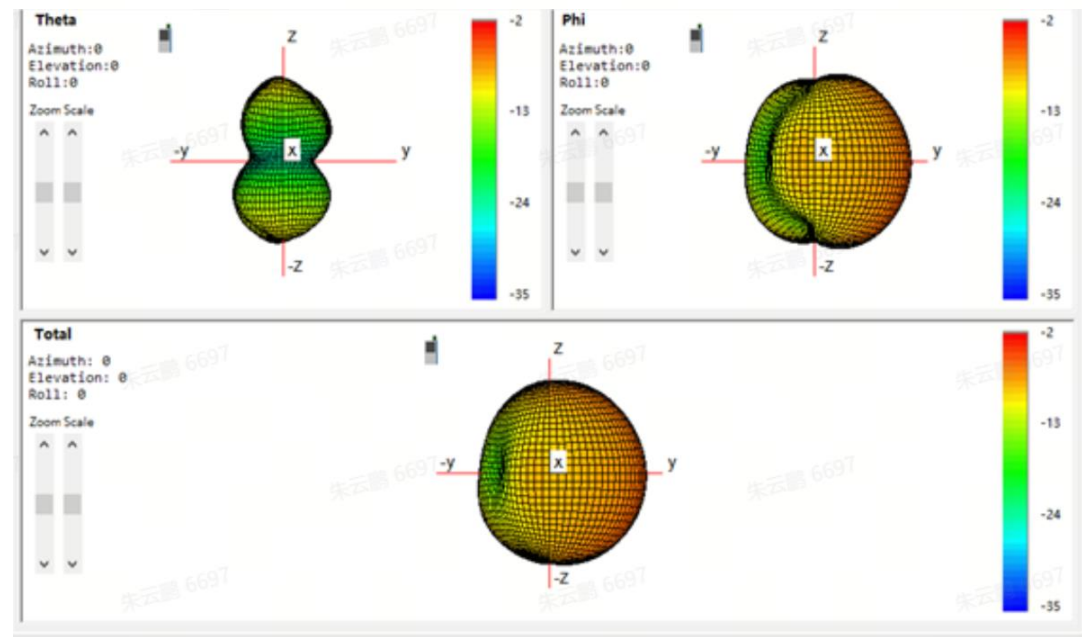
Frequency

6700MHz



Frequency

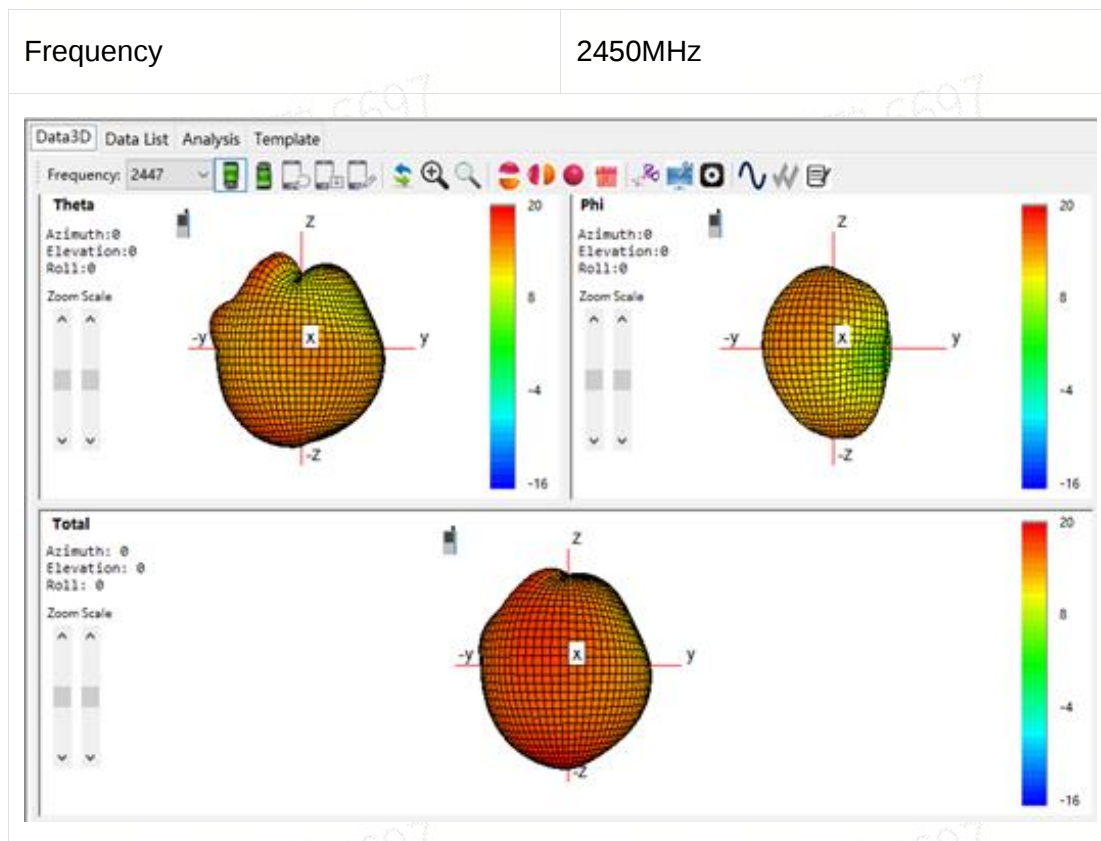
7000MHz



wifi_2.4G

Wifi_2.4G ANT	
Band for Antenna 8&16	Peak gain(dBi)
2.4G(2400~2485MHz)	-0.05

方向图

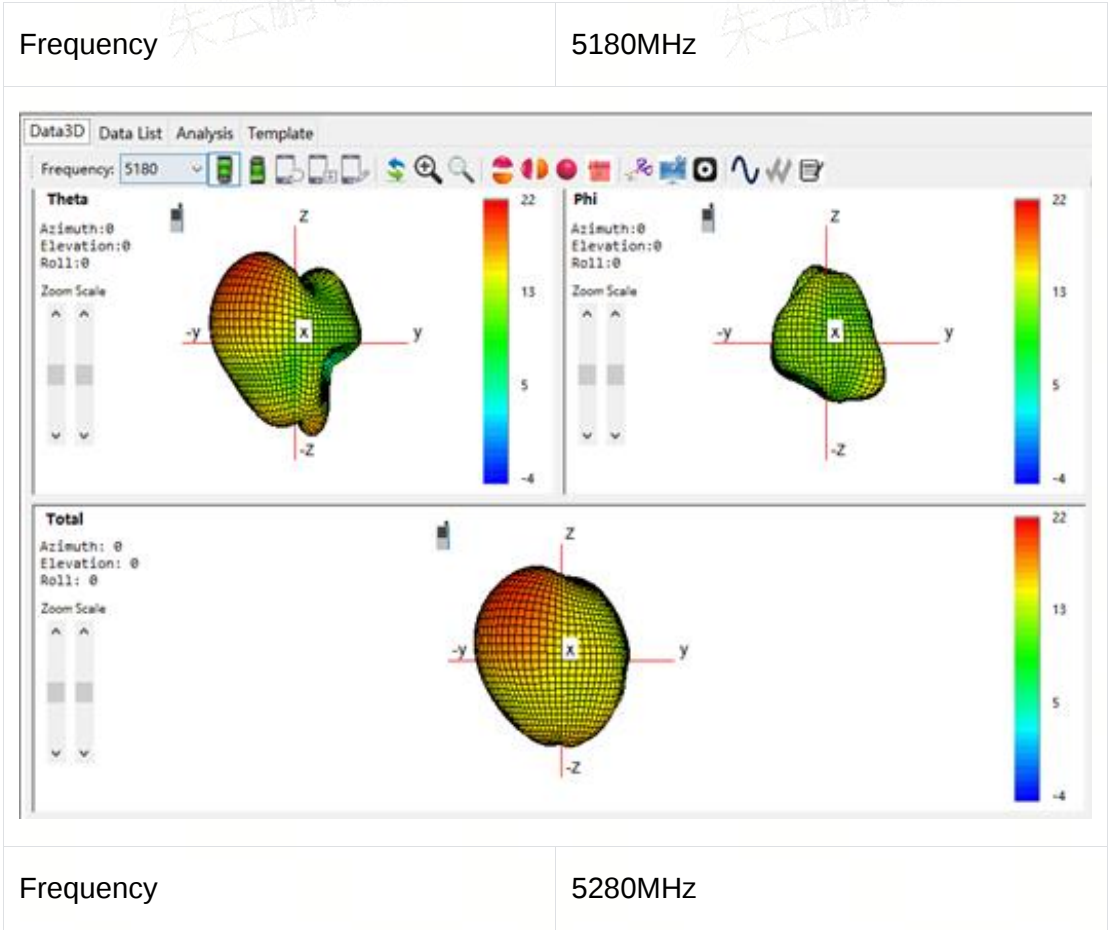


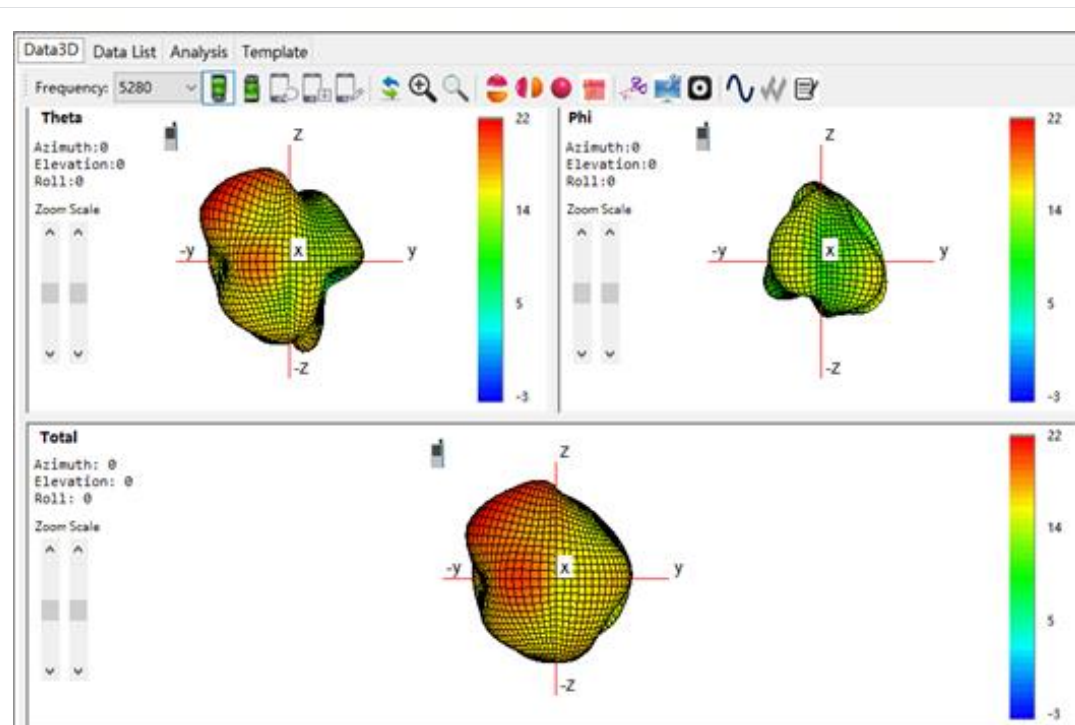
wifi_5G

Wifi_5G ANT	
Band for Antenna 17&18	Peak gain(dBi)
5G (5150~5250MHz)	-0.63
5G (5250~5350MHz)	0
5G (5470~5725MHz)	0

5G (5470~5850MHz)	-0.16
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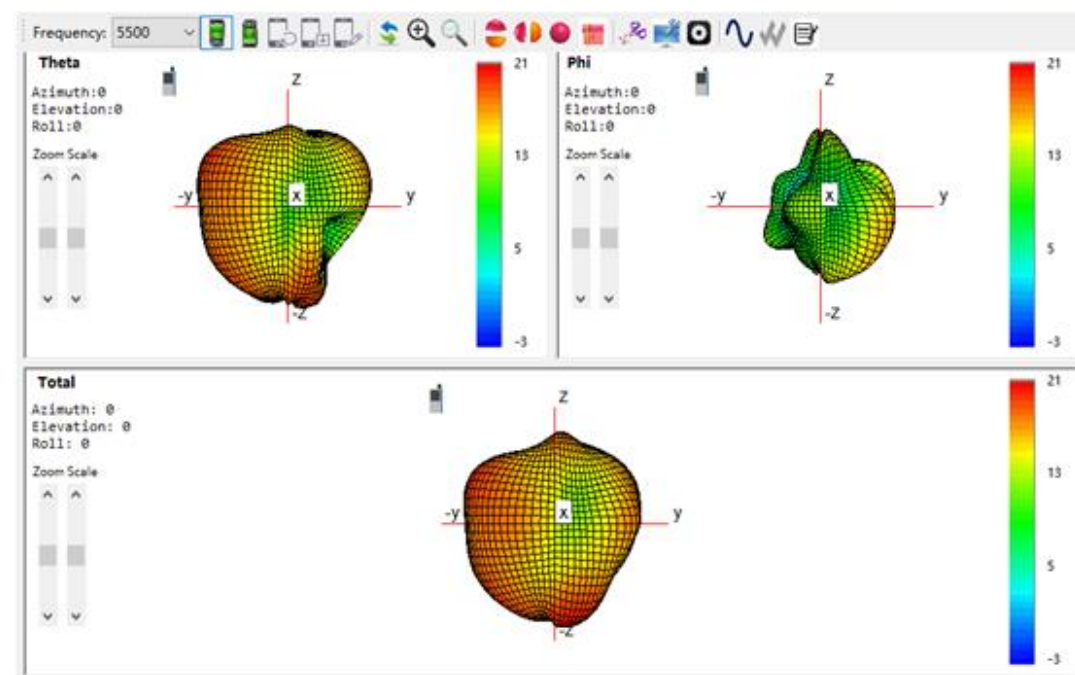
方向图





Frequency

5500MHz

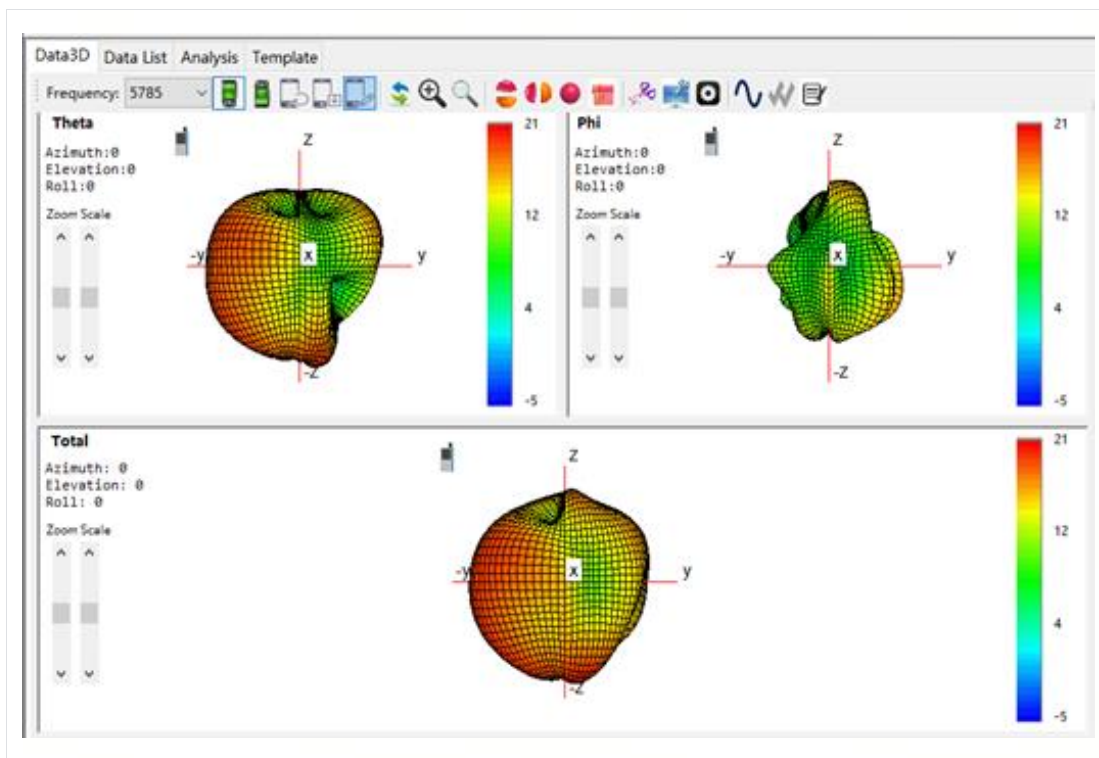


Frequency

5785MHz

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3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date
E5071C	KEYSIGHT	E5071C	EQ80224	2025-2-26

4. Test Site

Shenzhen



End of Test Report