



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 24307FPN8EG

FCC ID: 2AFZZPN8EG

Test date: 2024/04/15



1. Antenna information

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



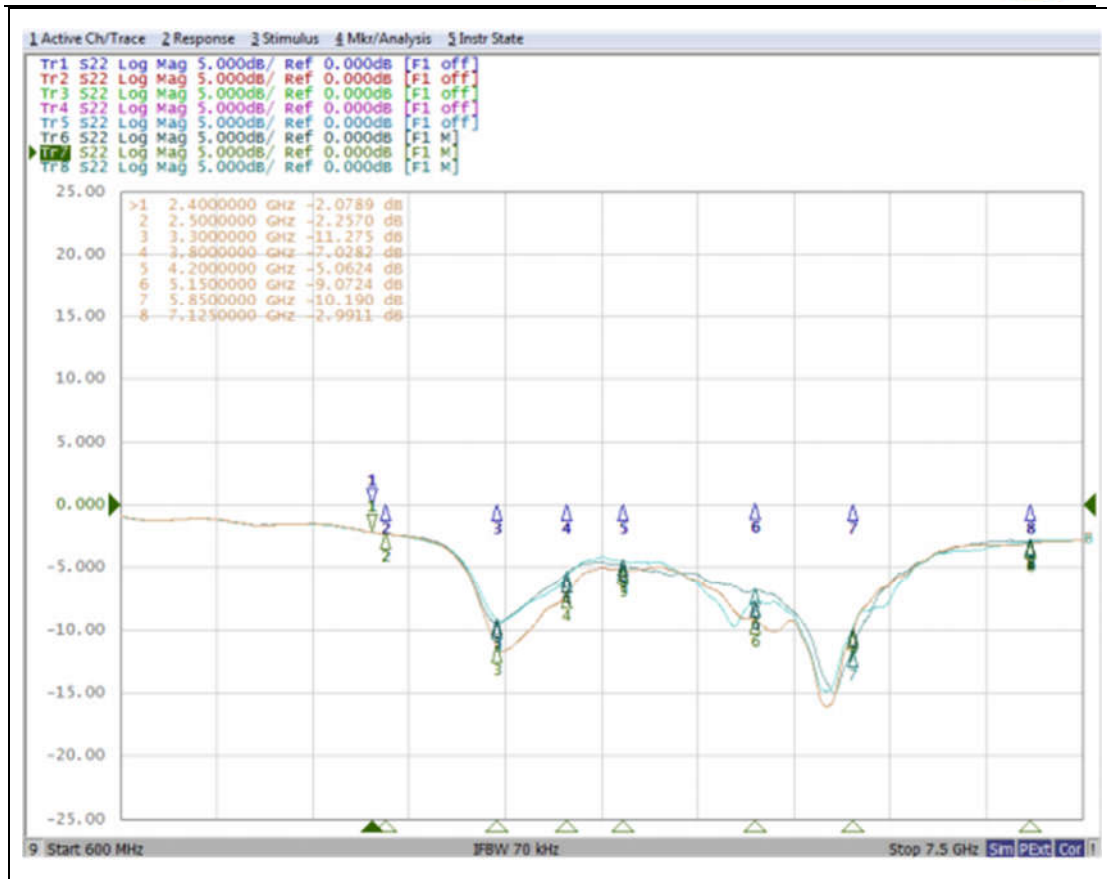
NFC	Metal Frame FPC	FPC Antenna	Kunshan Innowave Communication Technology Co., Ltd. XIAOMI	Building 4, Zone A, Hong Xin Tai Industrial Park, No.28 Yinying Road, Gaoying Village, Dongguan City Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
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2. Test data

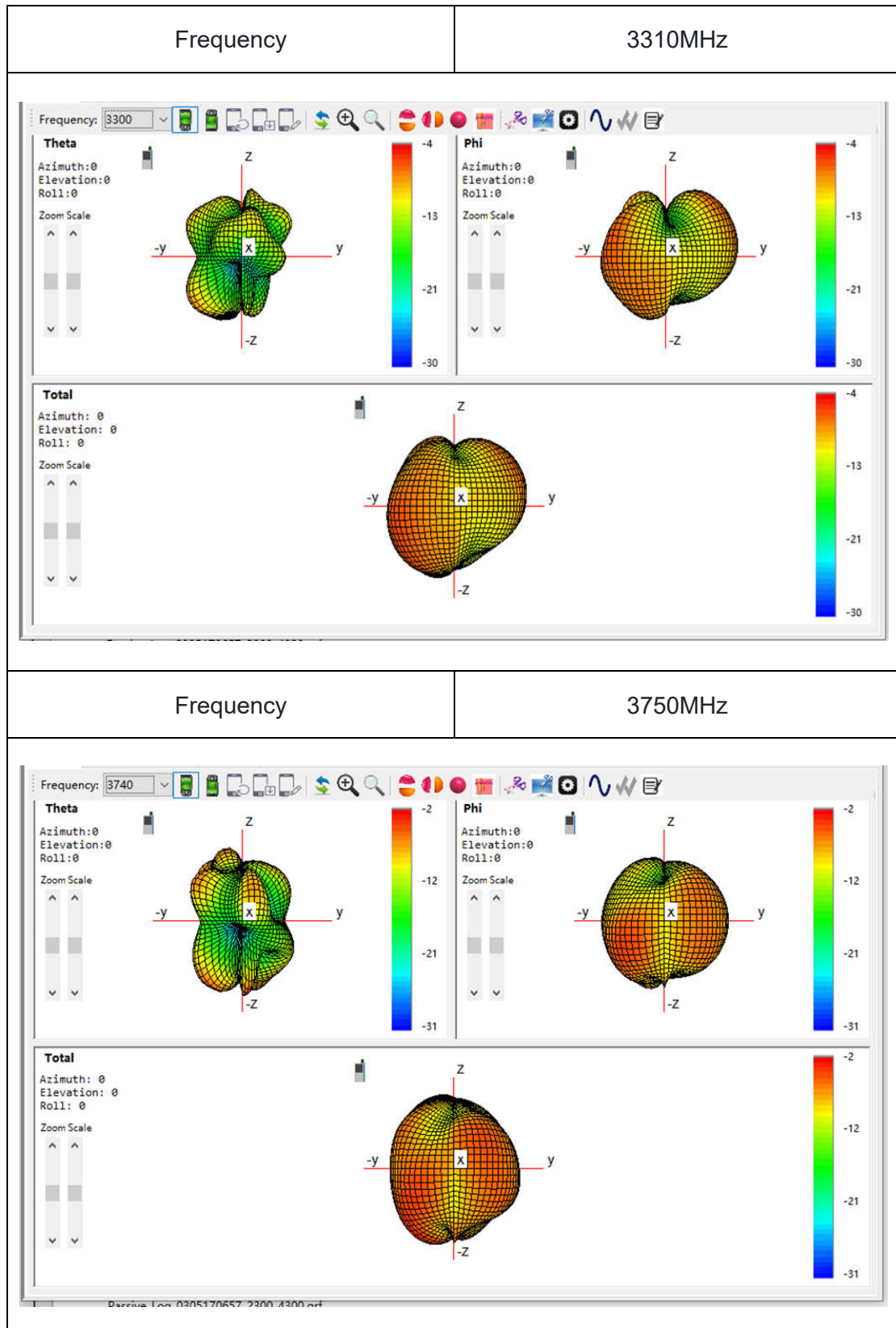
Bands for Antenna 6	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
	5G (5150~5250MHz)	-6.6	17.39	21.45
5G (5250~5350MHz)	-6.3	17.34	21.77	-1.7
5G (5470~5725MHz)	-5.1	17.51	21.7	-0.08
5G (5470~5850MHz)	-5	17.87	21.85	-0.08
6G (5925-6425GHz)	-6.4	16.5	20.61	-4.11
6G (6425-6525GHz)	-9.3	17.09	20.48	-5.37
6G (6525-6875GHz)	-10.4	14.86	20.23	-3.39
6G (6875-7125GHz)	-12.1	15.98	20.18	-4.2

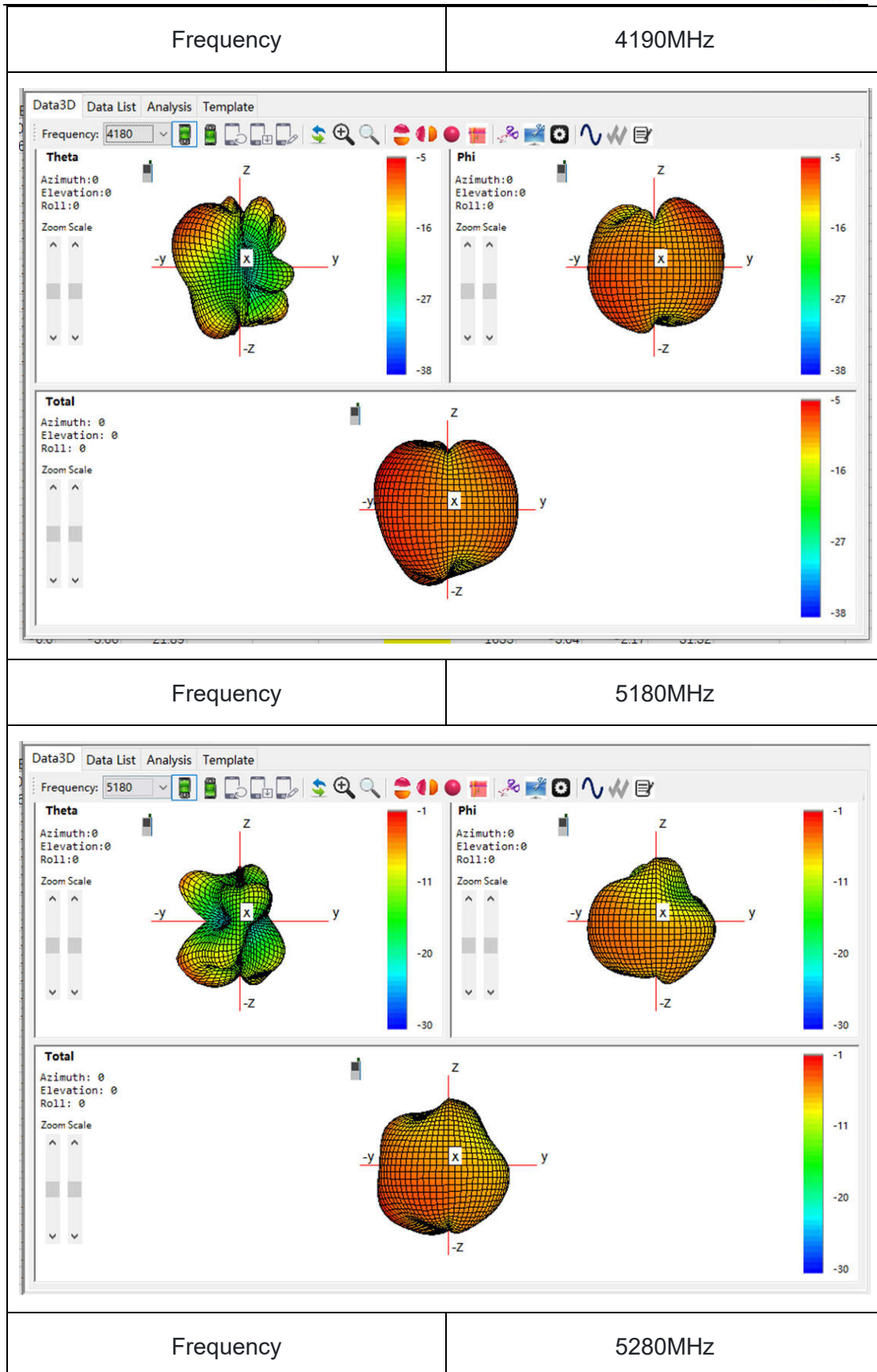
S 参数

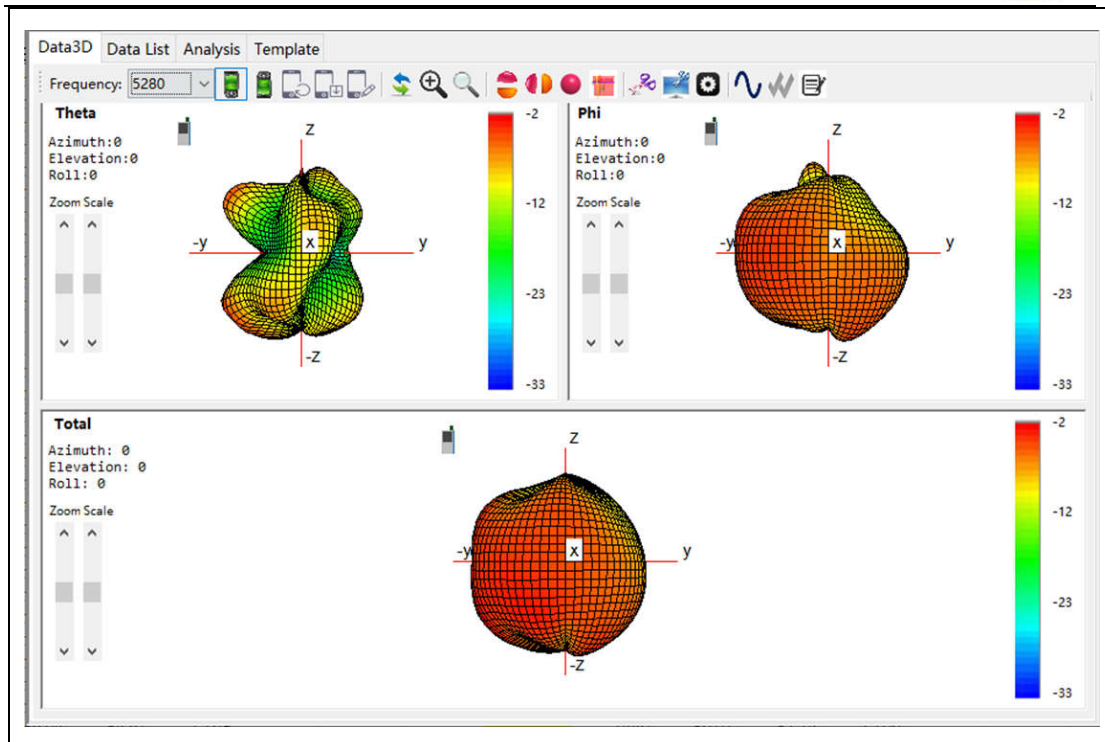




方向图

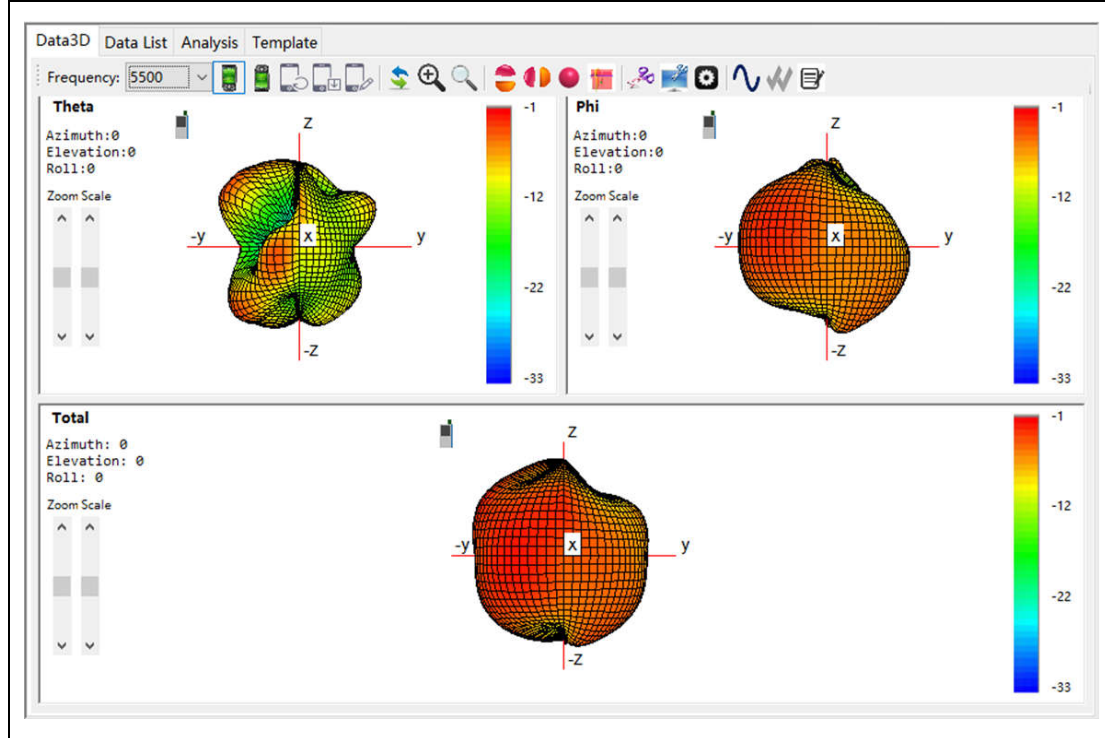






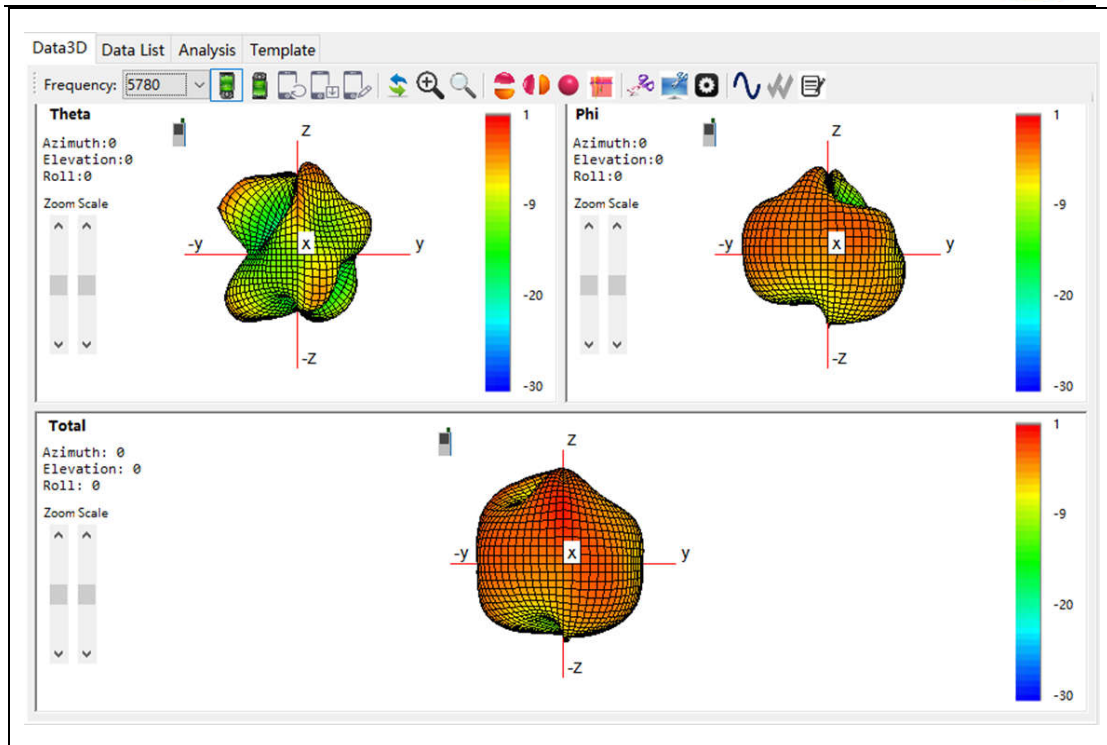
Frequency

5500MHz



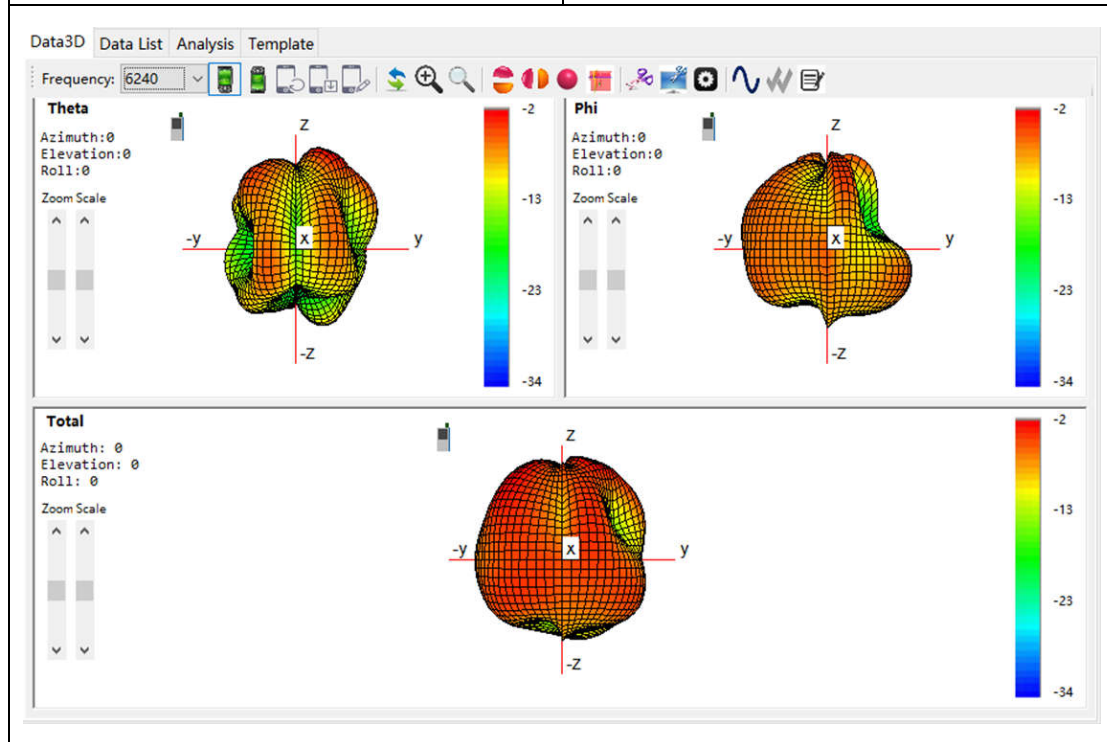
Frequency

5785MHz



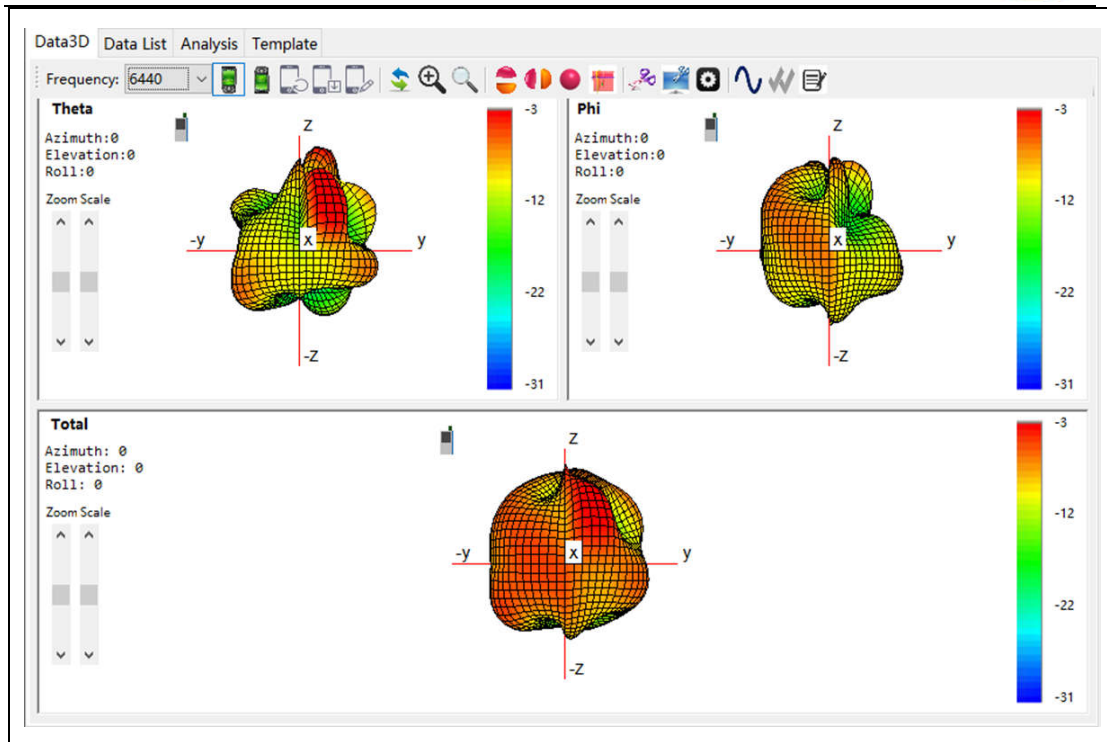
Frequency

6250MHz



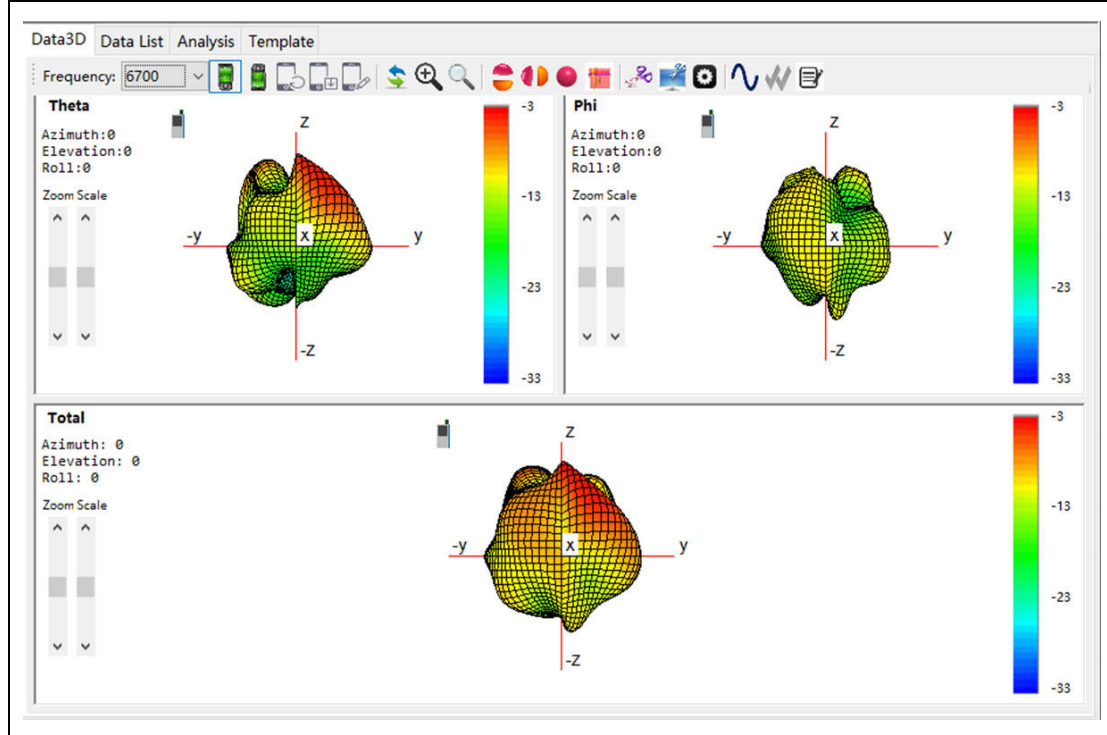
Frequency

6450MHz



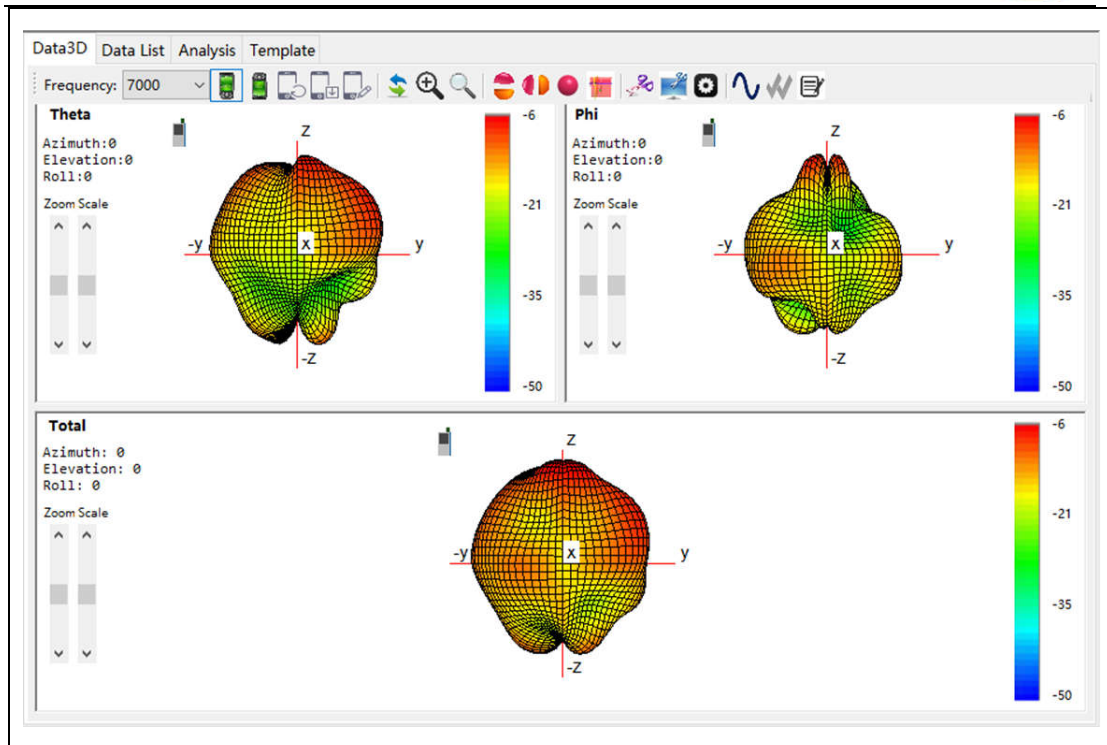
Frequency

6700MHz



Frequency

7000MHz

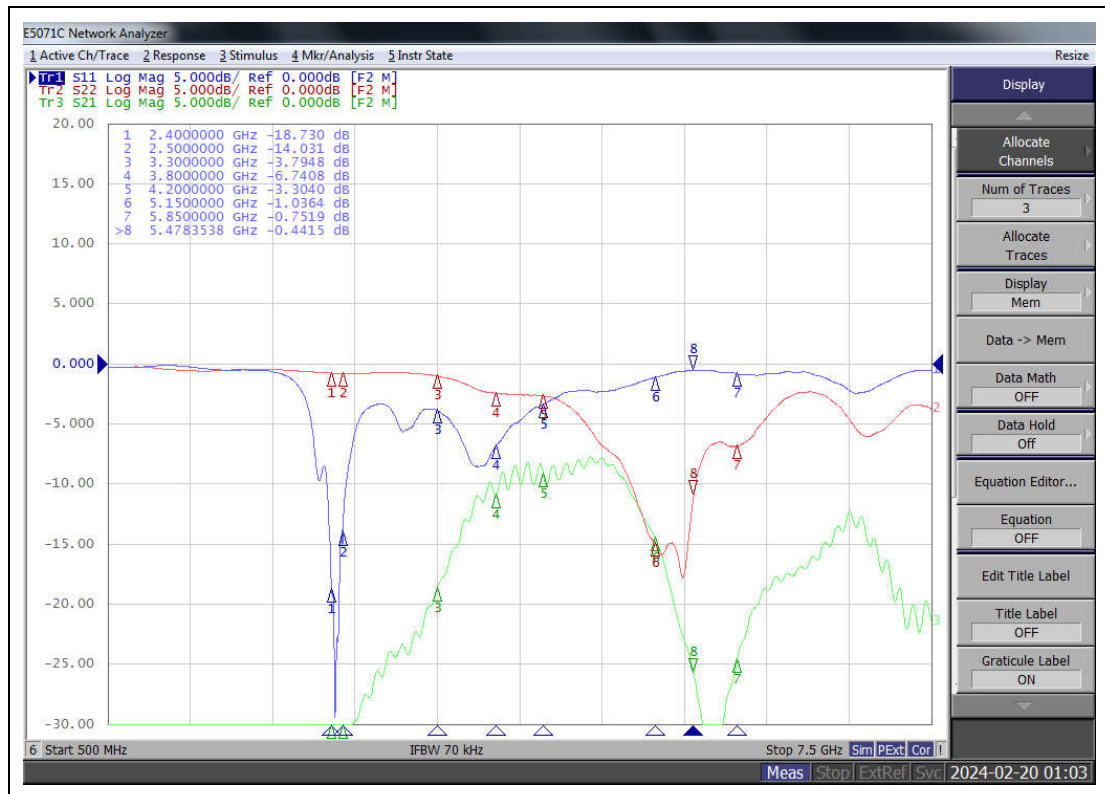




Bands for Antenna 7

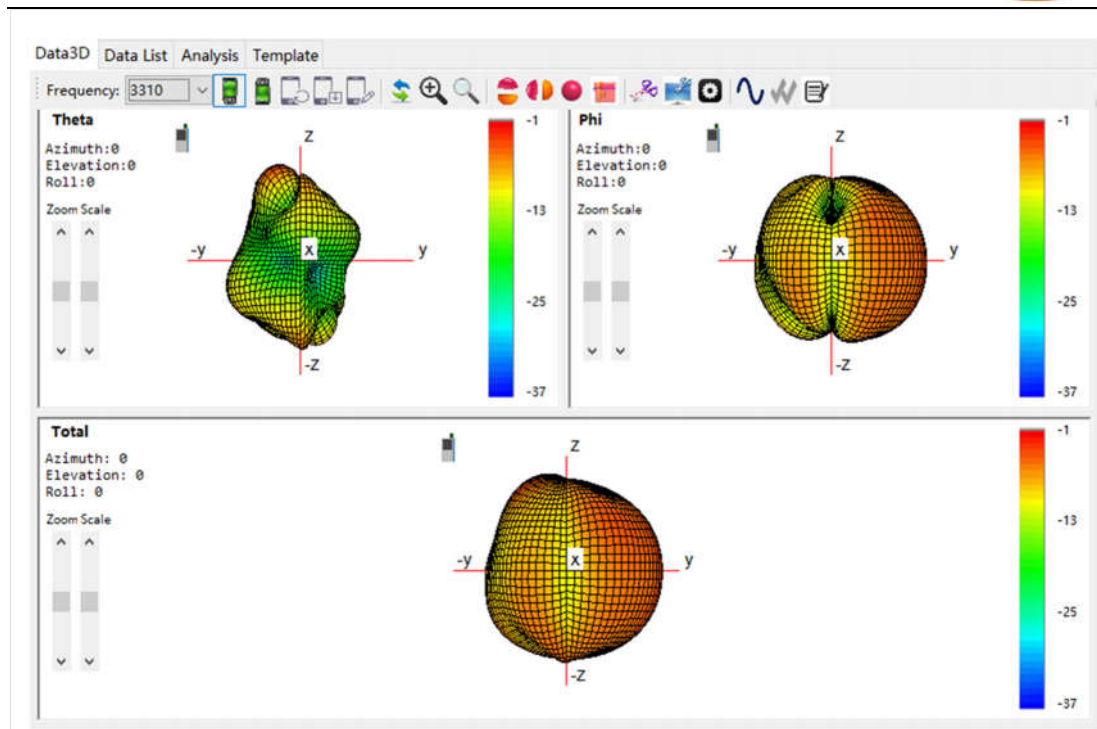
	Avg.Effi. (dB)	EIRP	合路传导功 率	Peak gain(dBi)
2.4G(2400~2485MHz)	-3.8	18.7	22.36	0
Bluetooth	-3.8			0

S 参数



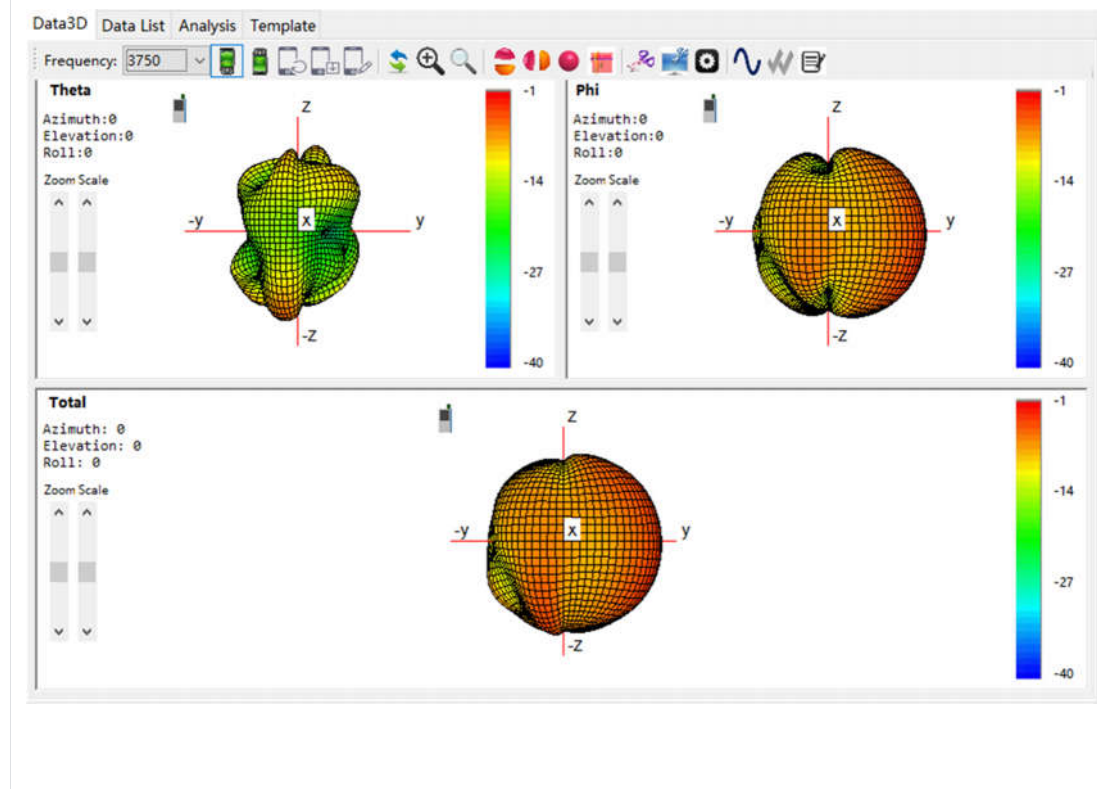
方向图

Frequency	3310MHz
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Frequency

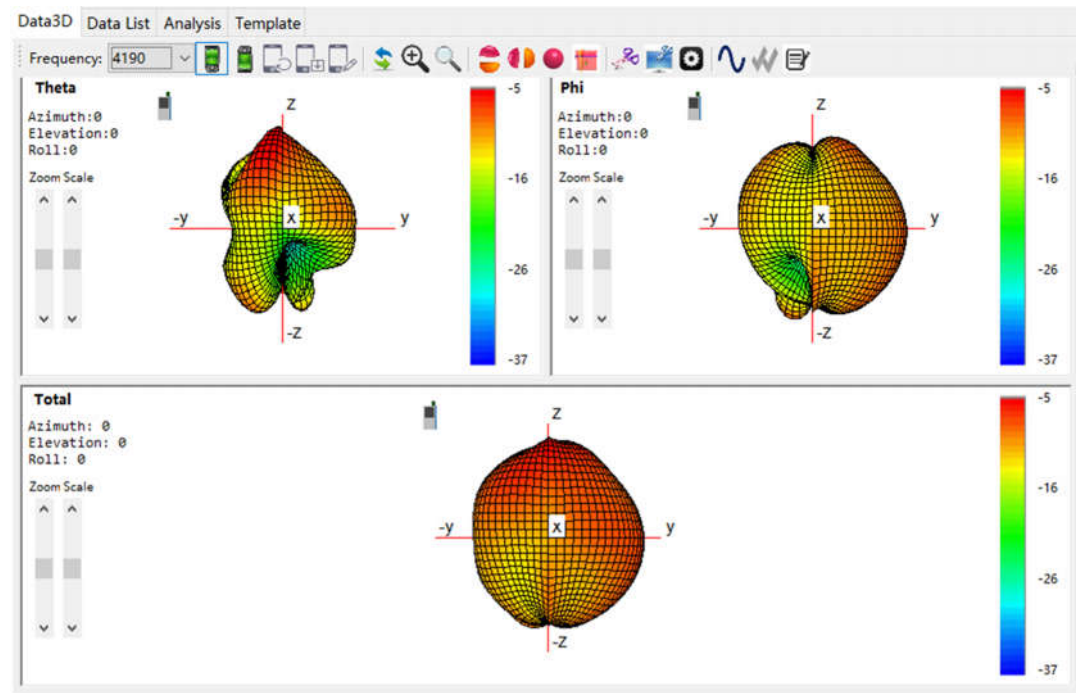
3750MHz





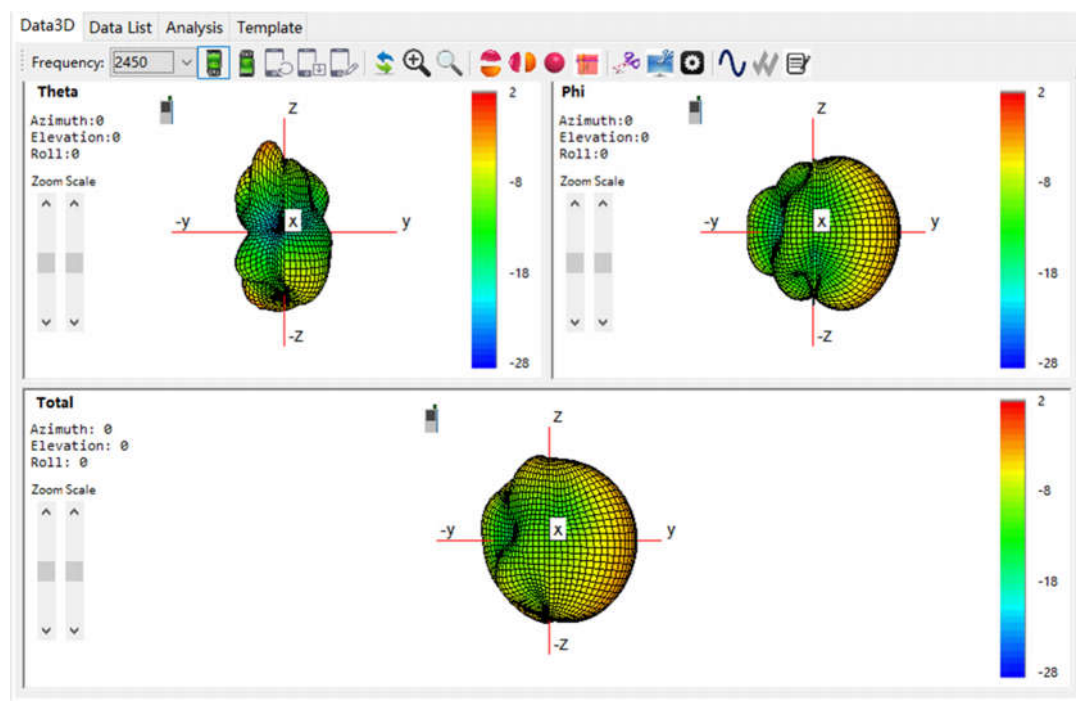
Frequency

4190MHz



Frequency

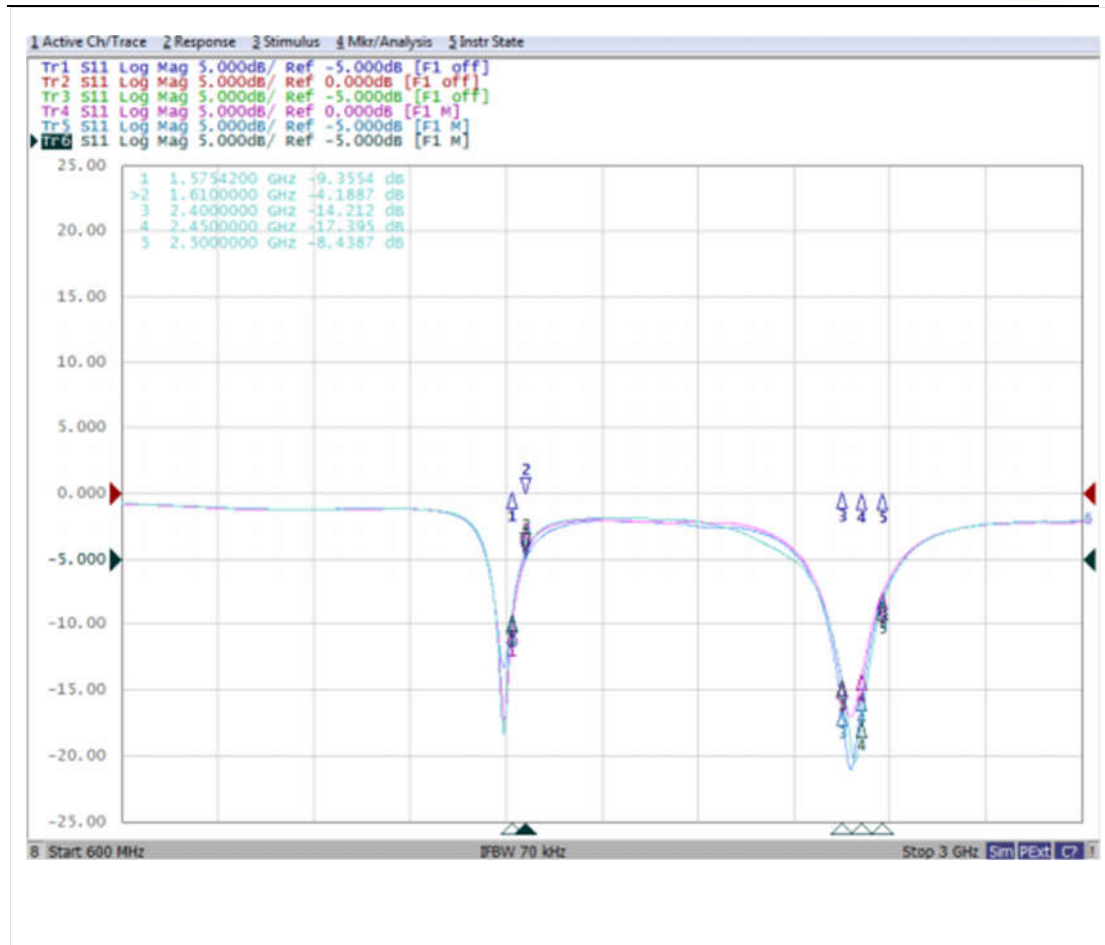
2450MHz





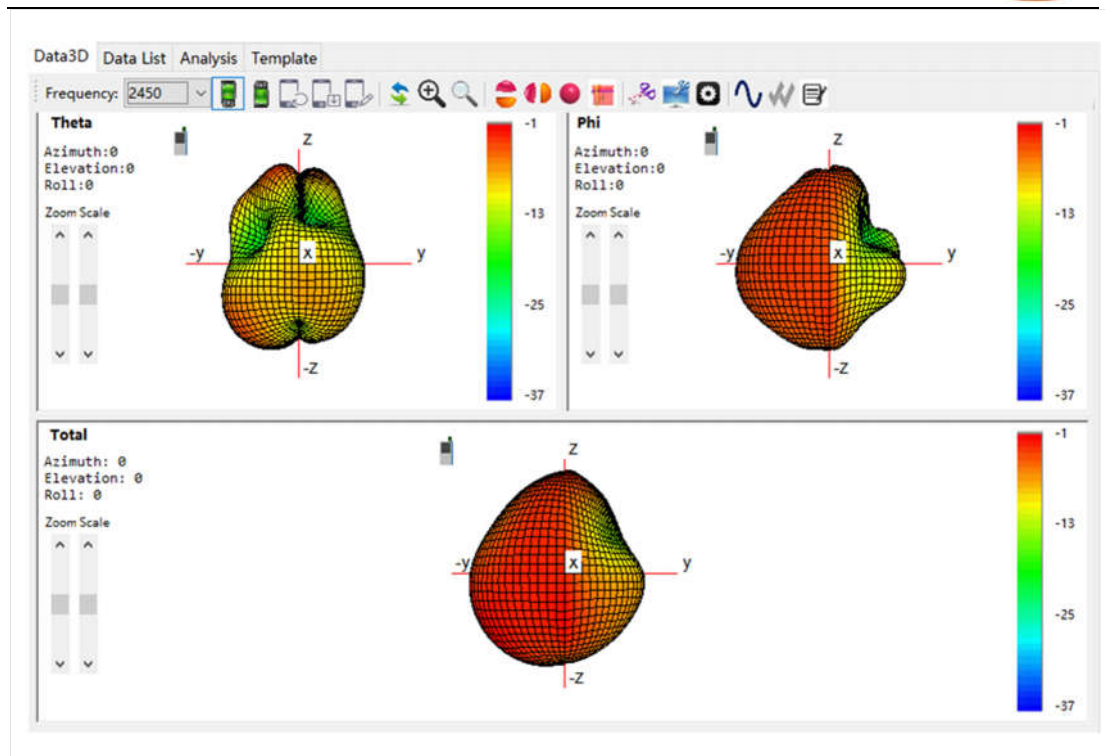
Band for Antenna 16	Avg.Effi	EIRP	合路传导	Peak
	.(dB)		功率	gain(dBi)
2.4G (2400~2485MHz)	-6	18.7	22.36	-1
Bluetooth	-6			-1

S 参数



方向图

Frequency	2450MHz
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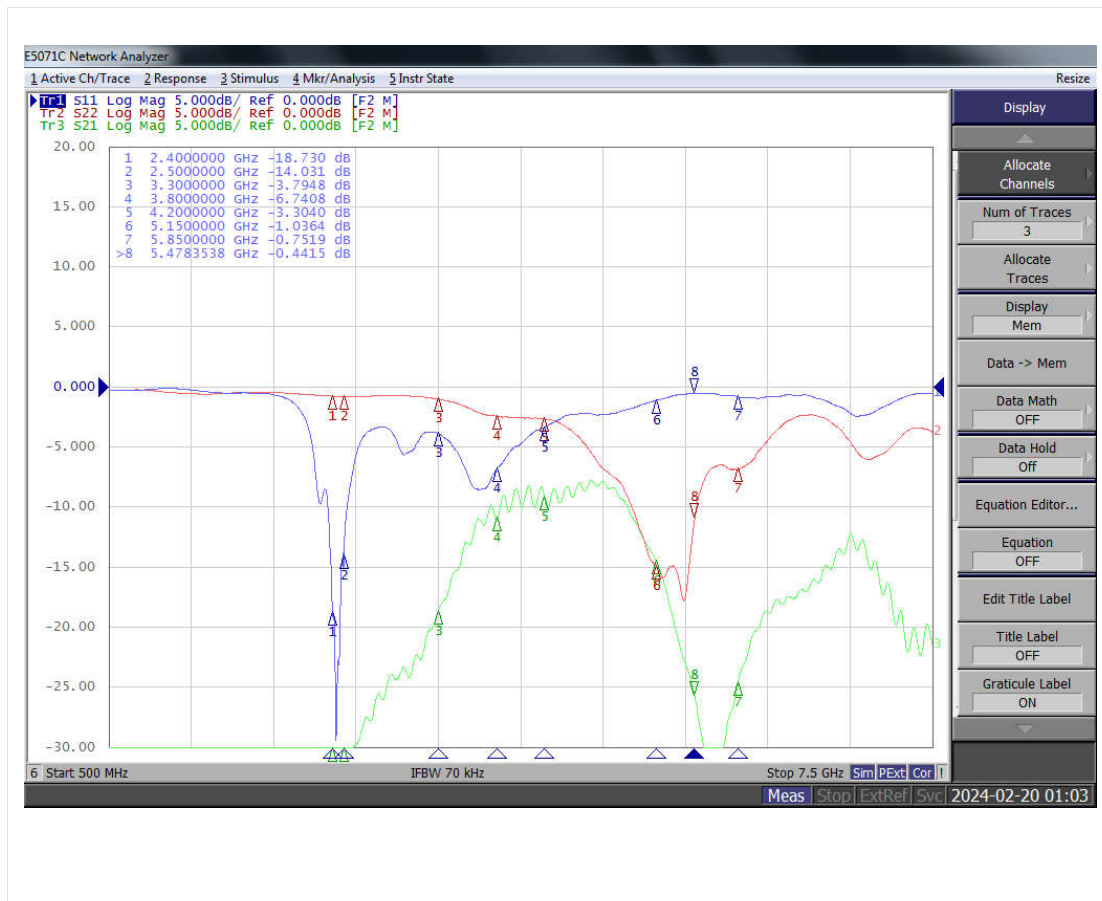


Band for Antenna 17	Performance Metrics			
	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
5G (5150~5250MHz)	-6.3	17.39	21.45	-0.6
5G (5250~5350MHz)	-6.2	17.34	21.77	-0.0
5G (5470~5725MHz)	-5.3	17.51	21.7	-0.08
5G (5470~5850MHz)	-5.5	17.87	21.85	-0.08
6G (5925-6425GHz)	-6.6	16.5	20.61	-4.11



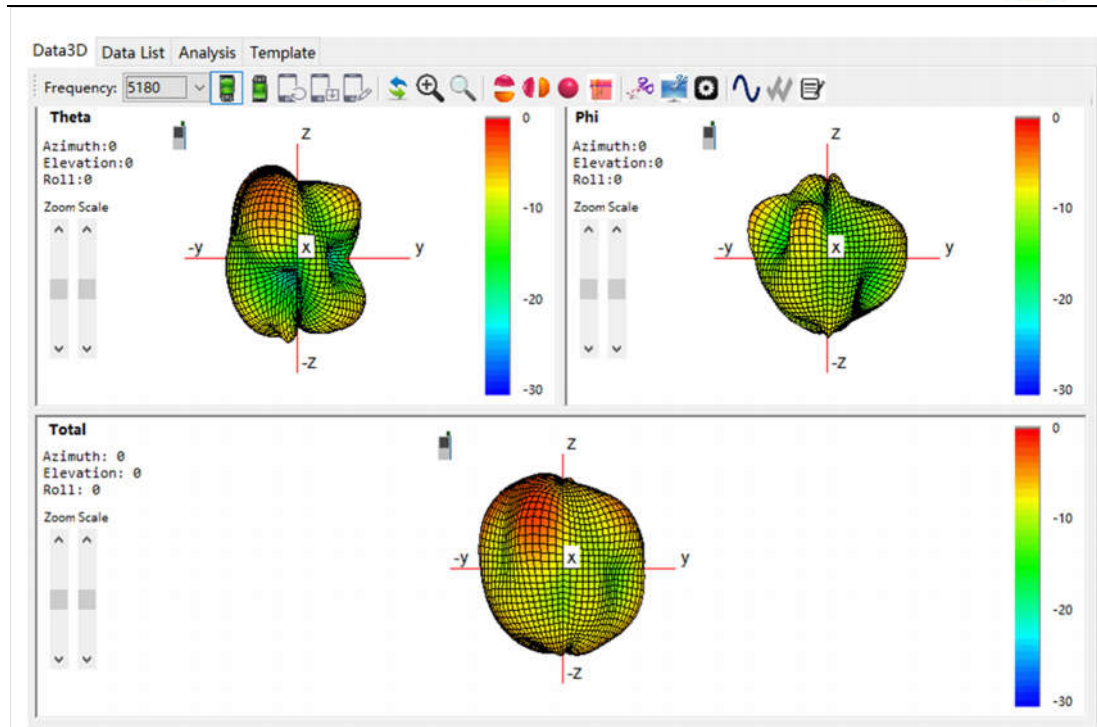
6G (6425-6525GHz)	-9	17.09	20.48	-5.37
6G (6525-6875GHz)	-9.6	14.86	20.23	-3.39
6G (6875-7125GHz)	-10.7	15.98	20.18	-4.2

S 参数



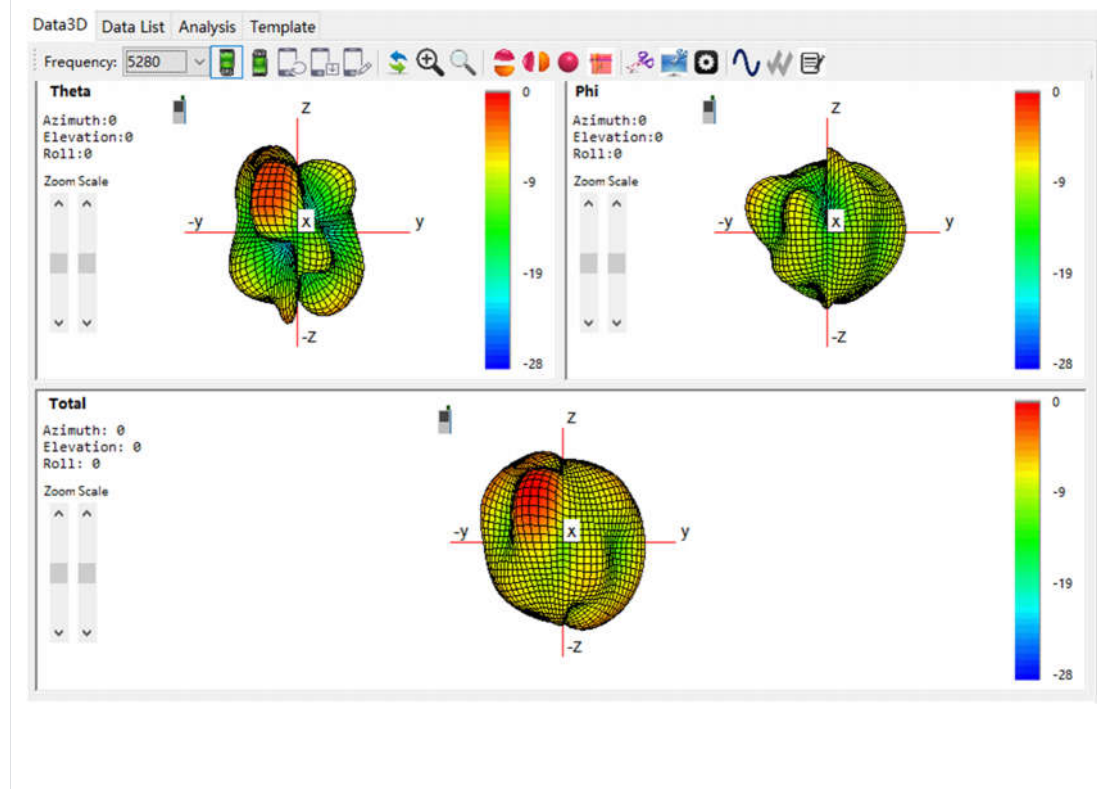
方向图

Frequency	5180MHz
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Frequency

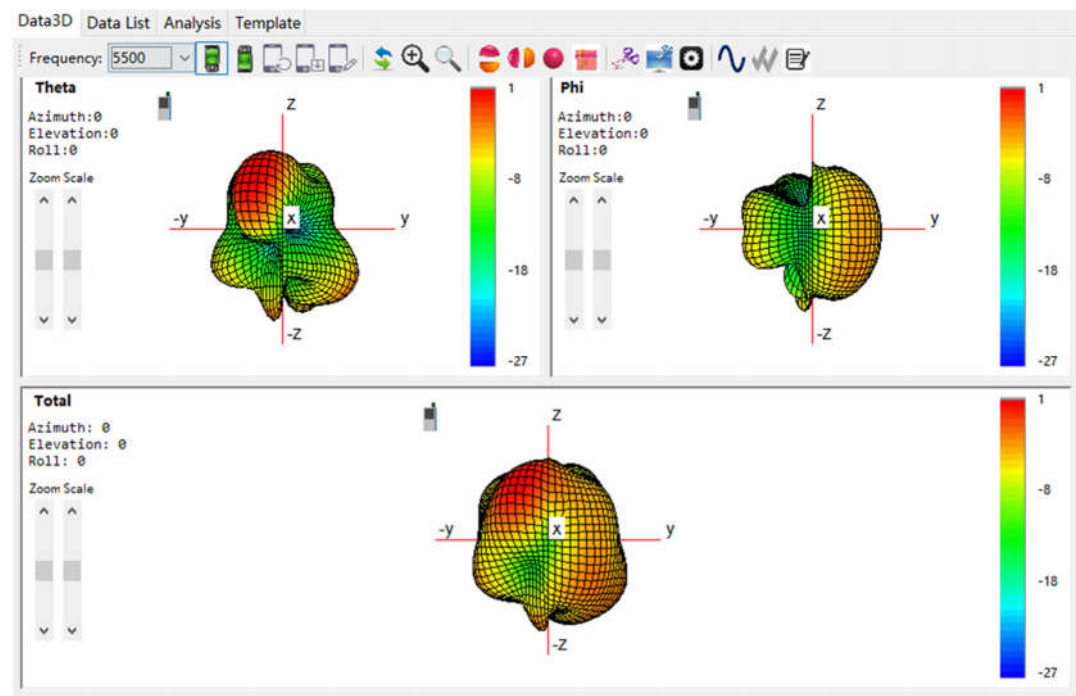
5280MHz





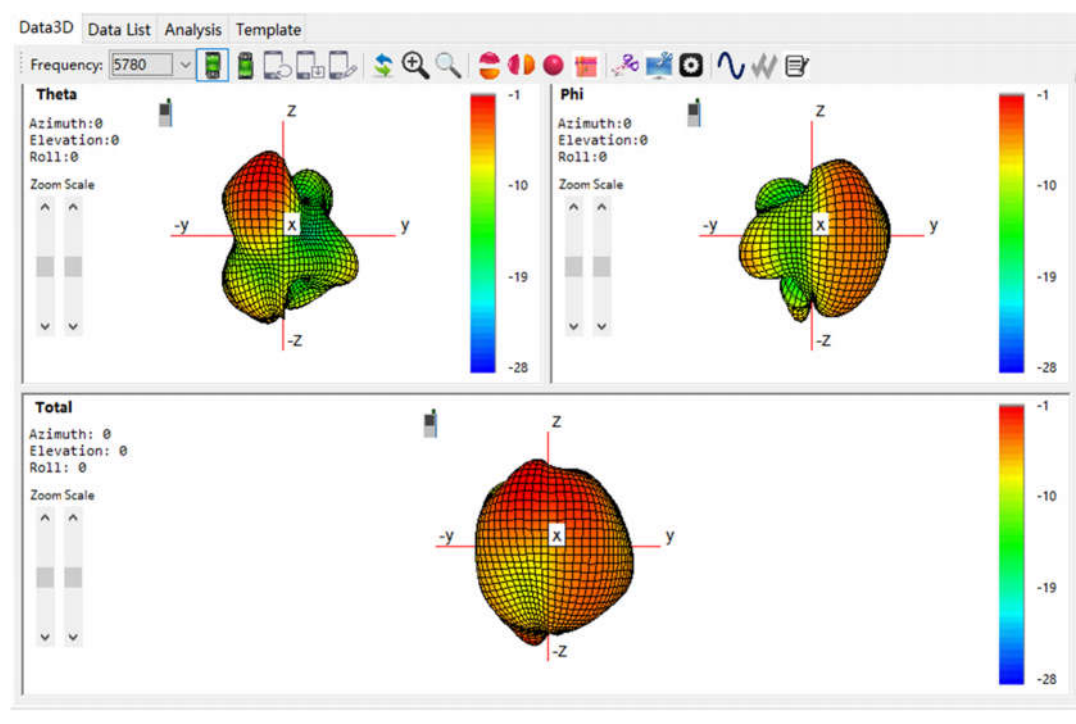
Frequency

5500MHz



Frequency

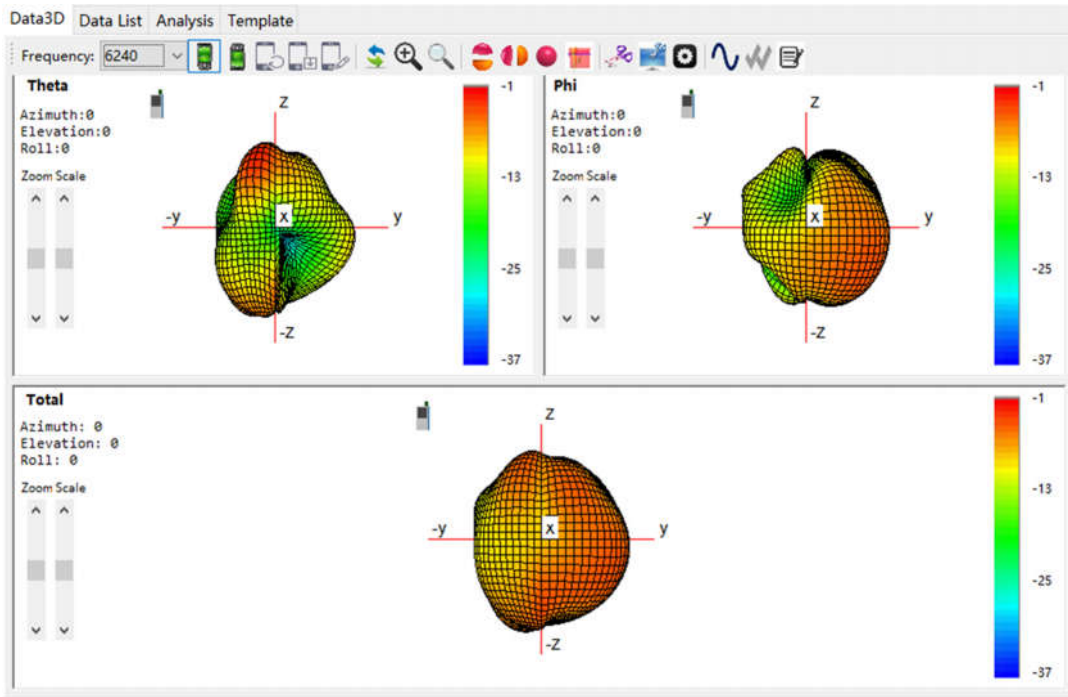
5785MHz





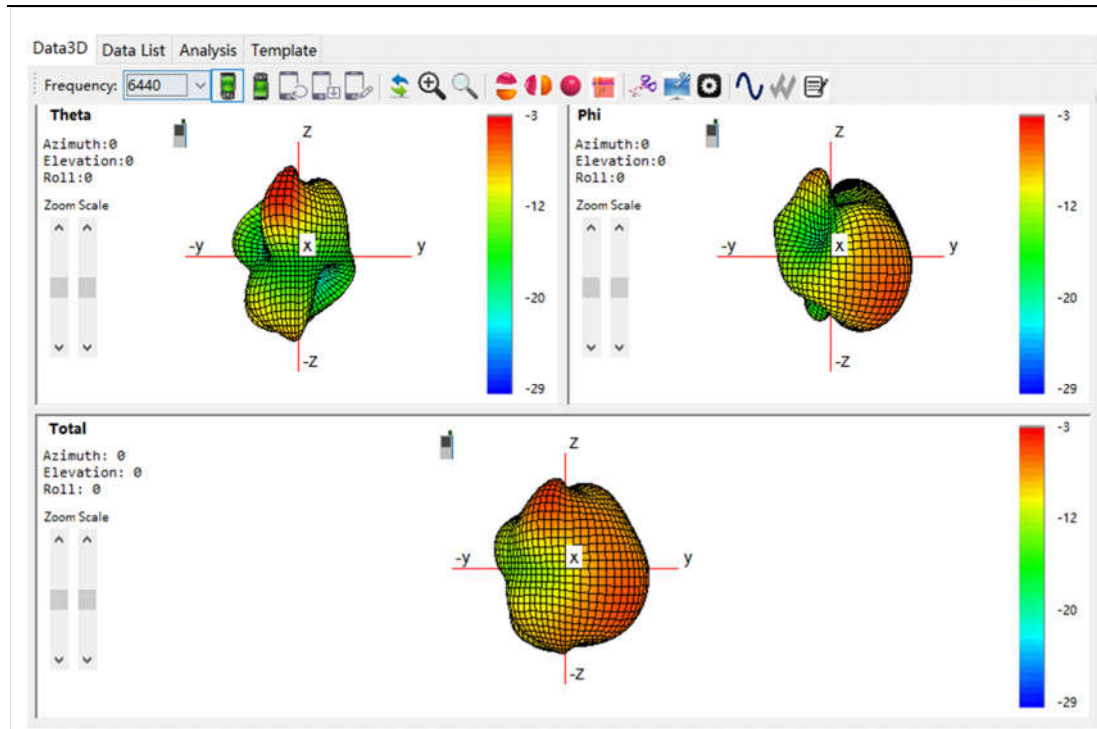
Frequency

6250MHz



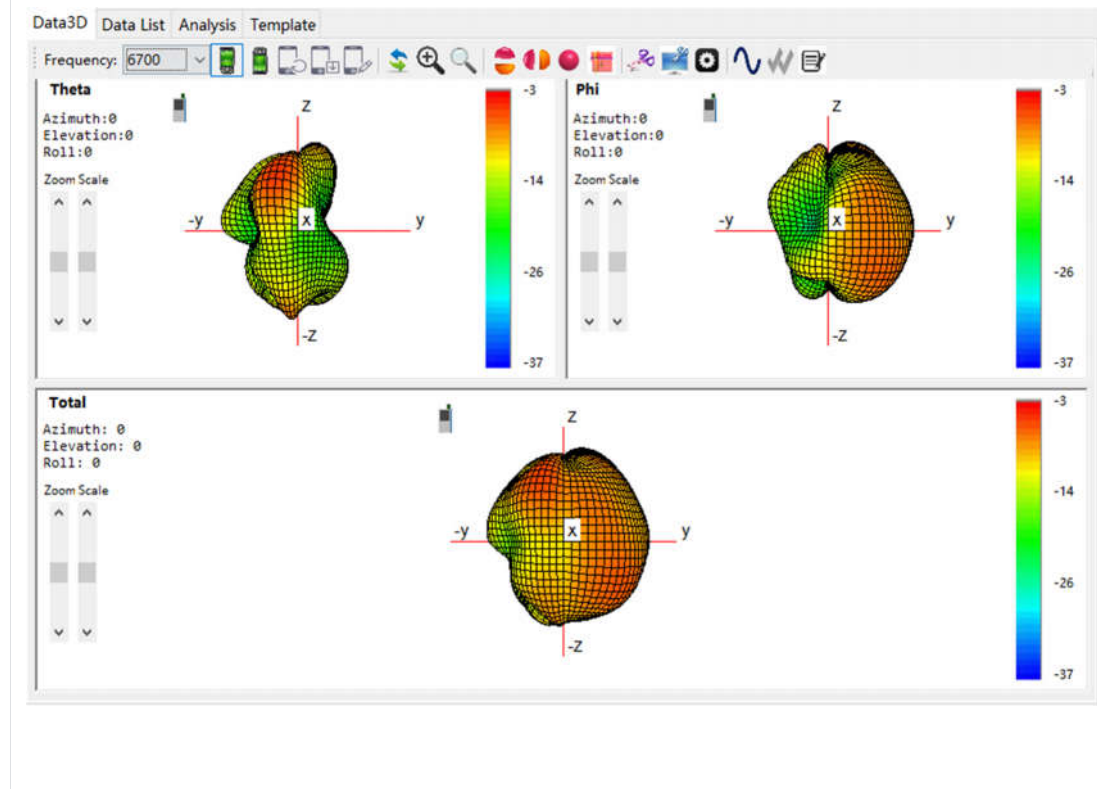
Frequency

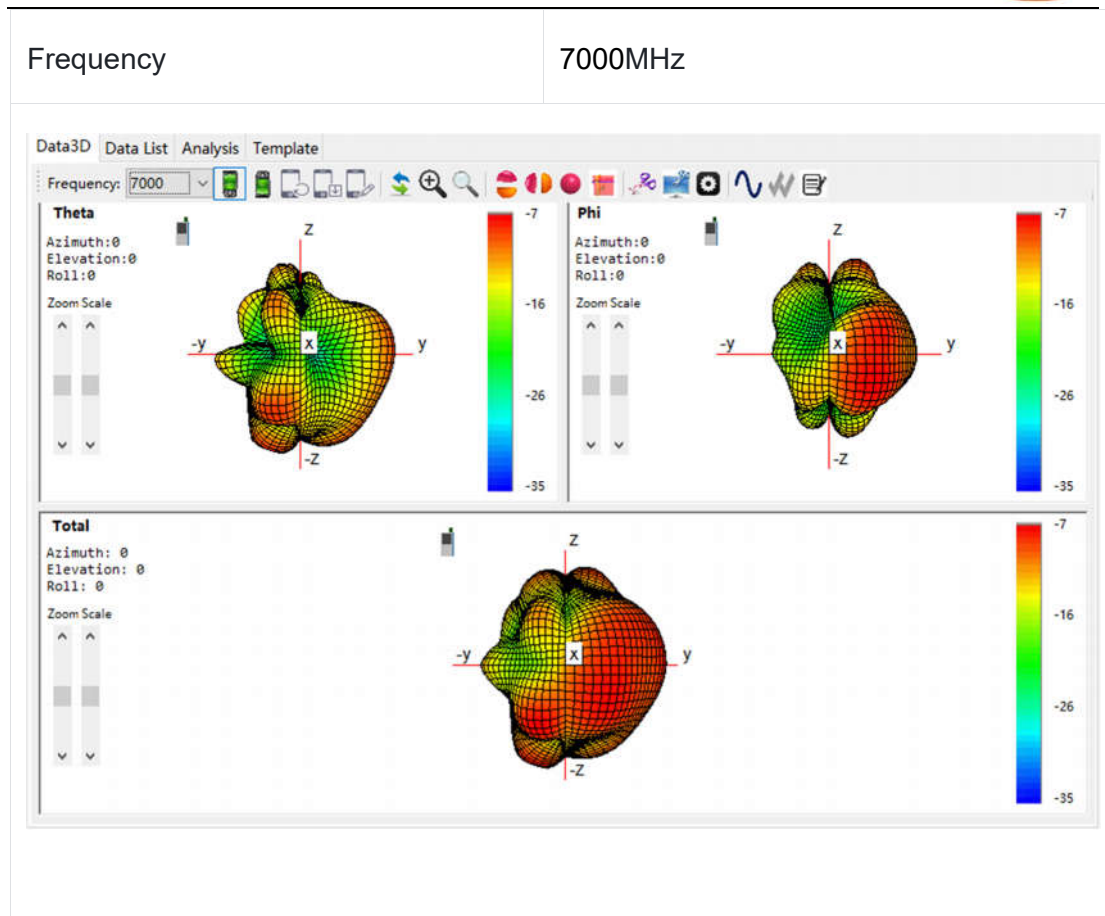
6450MHz



Frequency

6700MHz





3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	EQ80224	2024-4-6	2025-4-6

4. The name of the test software

GTS MaxSign- RayZone2800D_Z

5. Signed by the test engineer

杜志敏

End of Test Report