

2025

BT *Antenna Specification*

Client Name/ANT manufacturer:

Dongyuan Electronics

Address: Dongyuan Industrial Park, southwest of
Shiyan North Ring Road, Bao'an District,
Shenzhen

Frequency: 2400-2500MHz

Max. Gain: 2.18dBi

Test Date: August 16, 2025

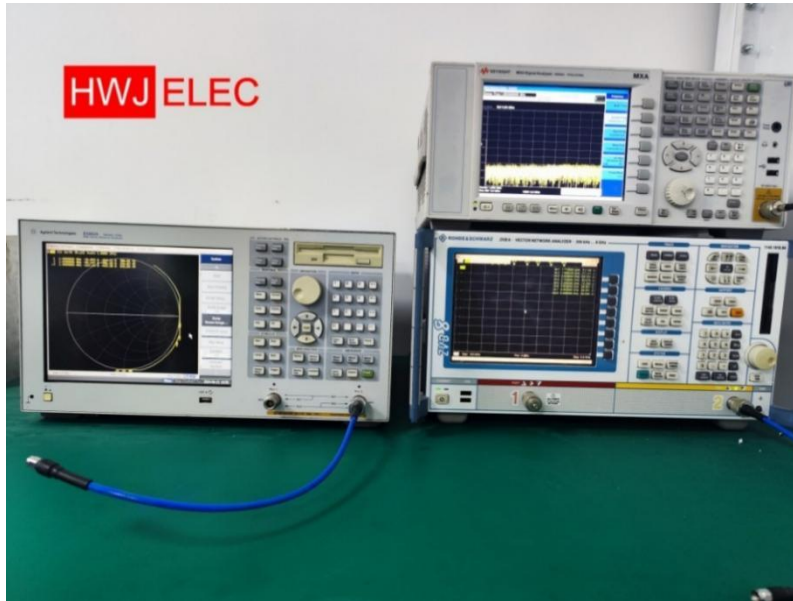


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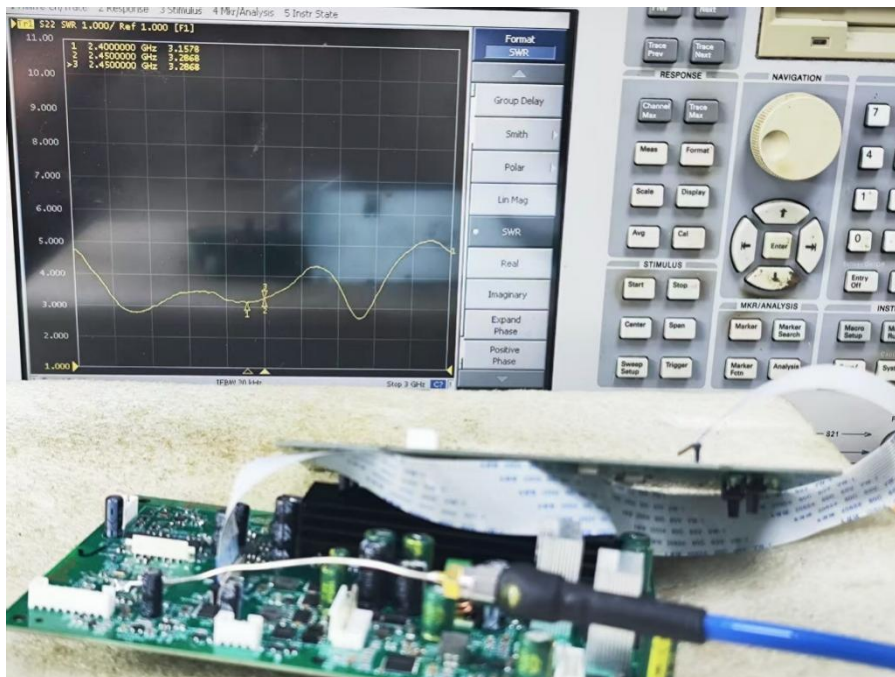
A: 2.4G Built-in Antenna

S Parameter Test

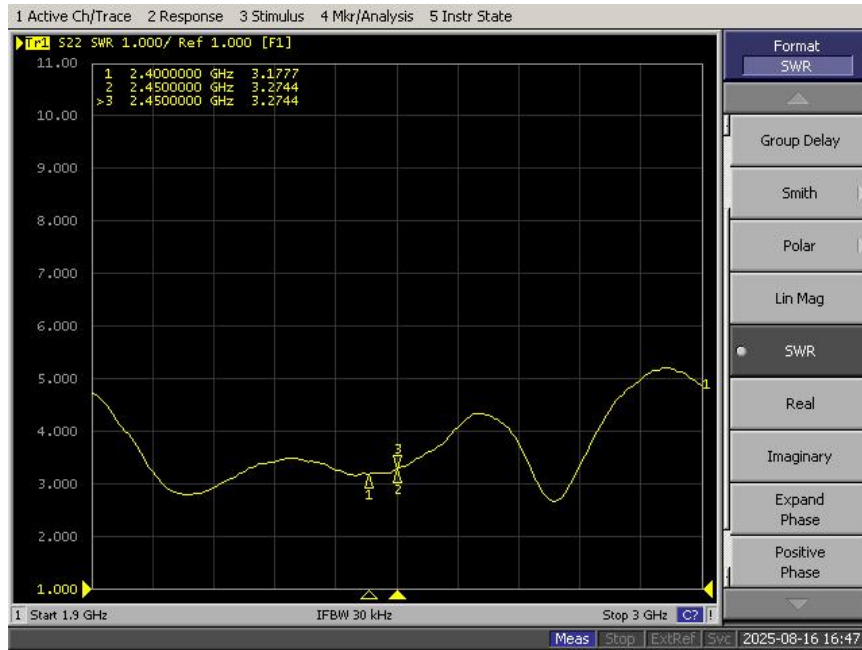


Type: E5062A , ZVB8 , N9020A

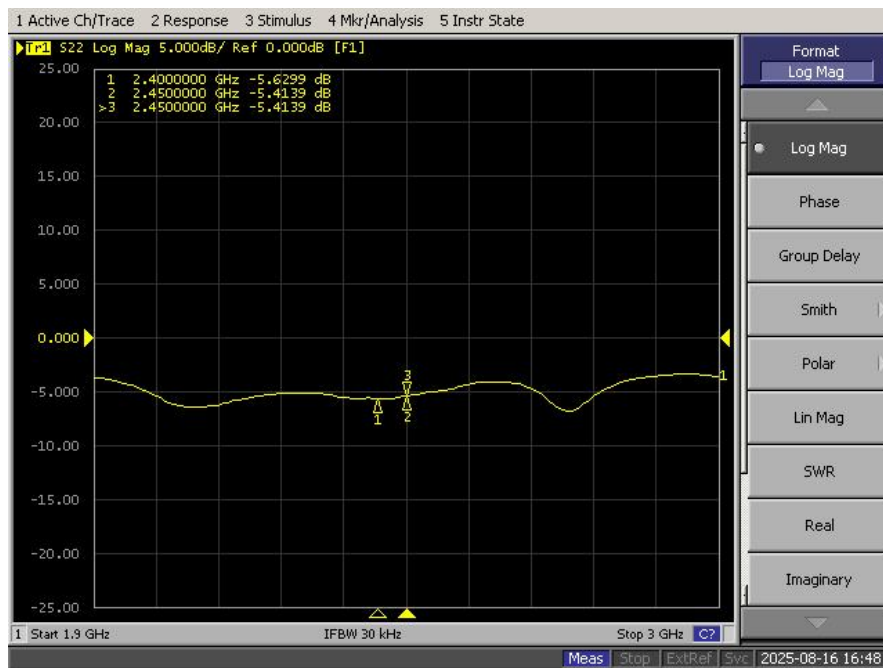
Overall Machine Testing Environment



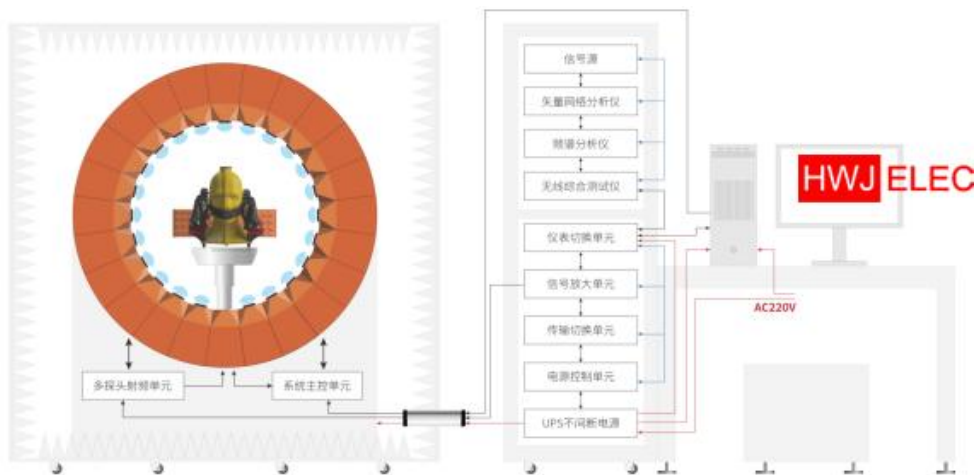
Antenna Standing Wave Ratio



Return Loss



3D Microwave Chamber Test

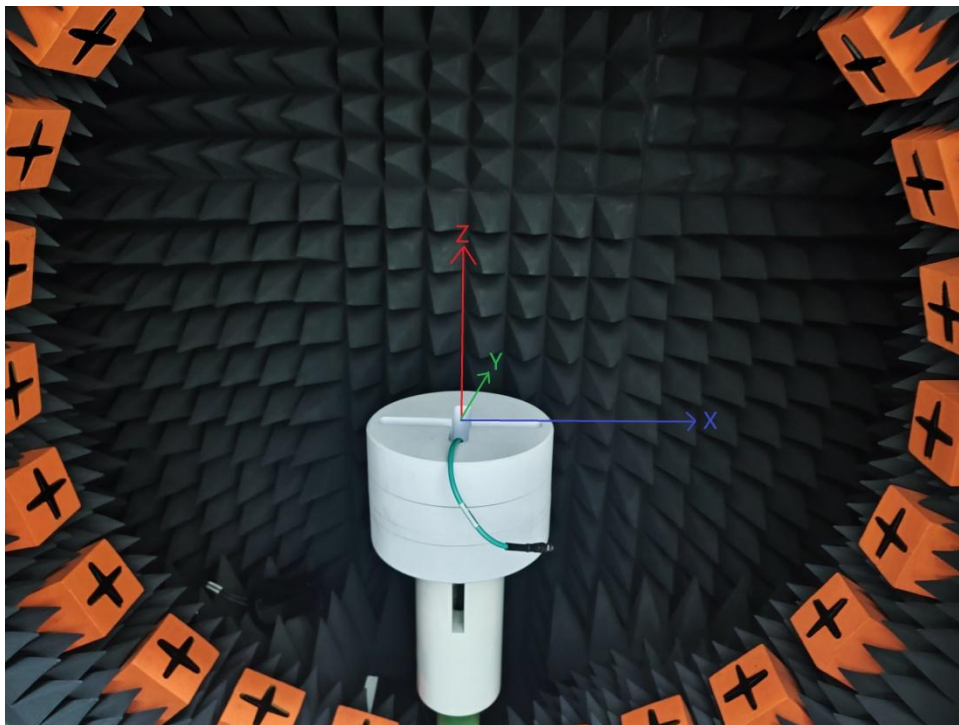


Unit type: ATS-200、E5071C、CMW500

Gain and Efficiency Table

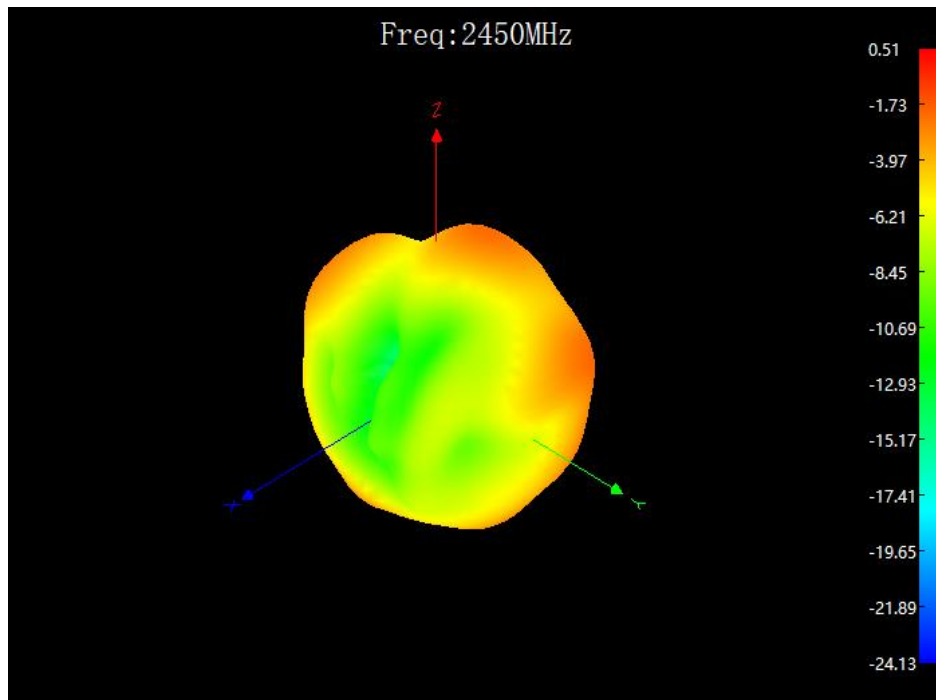
Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	2.18	37.33
2410	1.6	33.65
2420	1.16	31.99
2430	0.66	28.64
2440	0.83	30.55
2450	0.51	31.26
2460	-0.16	29.04
2470	-0.09	28.97
2480	0.07	28.25
2490	-0.63	26.42
2500	-1.76	22.75

Room Direction Diagram

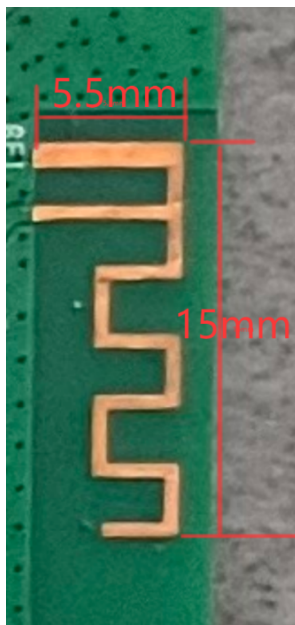


3D Direction Graph

2450MHz



Antenna size:



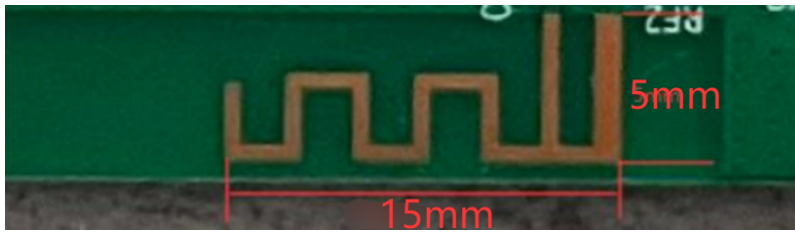
Guangzhou Cambrian Electronic Technology Co., Ltd.

2025/08/16

2.4G Antenna Specification

Test items	Antenna radiation pattern Antenna gain and efficiency
Test frequency band(MHz)	2400-2500
Testing equipment	ATS-200、E5071C
Receiving time	October 25th, 2025
Test time	October 25th, 2025
Testing Company	Guangzhou Cambrian Electronic Technology Co., Ltd.
ANT manufacturer:	Dongyuan Electronics
Address:	Dongyuan Industrial Park, southwest of Shiyan North Ring Road, Bao'an District, Shenzhen

Antenna size



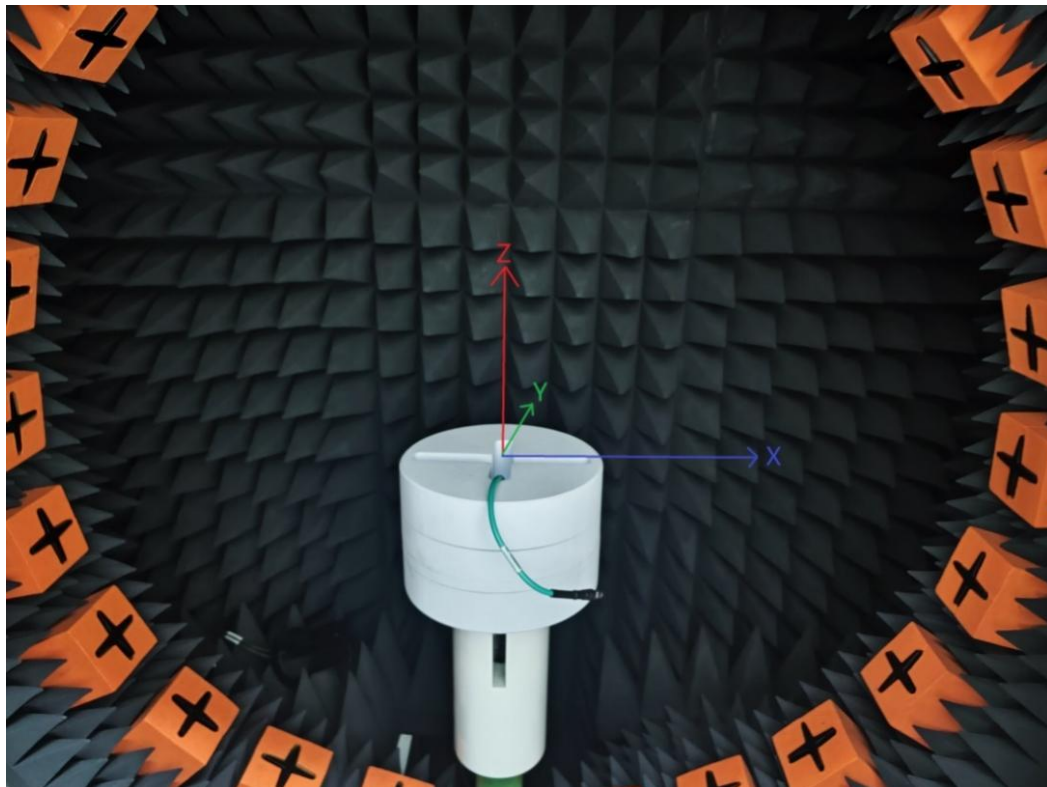
3D microwave anechoic chamber test

Equipment models: ATS-200, E5071C,

Gain and efficiency table

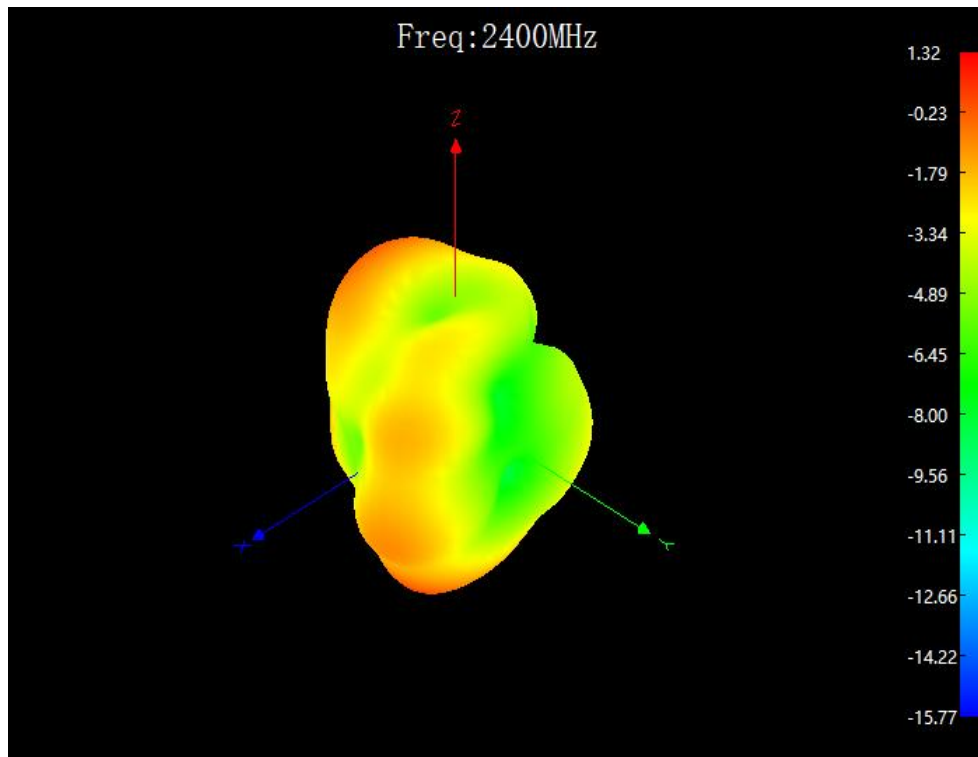
Frequency/Mhz	MaxGain/dBi	Efficiency / %
2400	1.32	36.98
2410	1.62	38.82
2420	1.44	39.63
2430	1.67	40.93
2440	2.2	45.92
2450	2.31	47.75
2460	1.62	46.13
2470	1.78	46.45
2480	1.85	47.42
2490	1.76	47.97
2500	1.11	45.81

Diagram of darkroom orientation

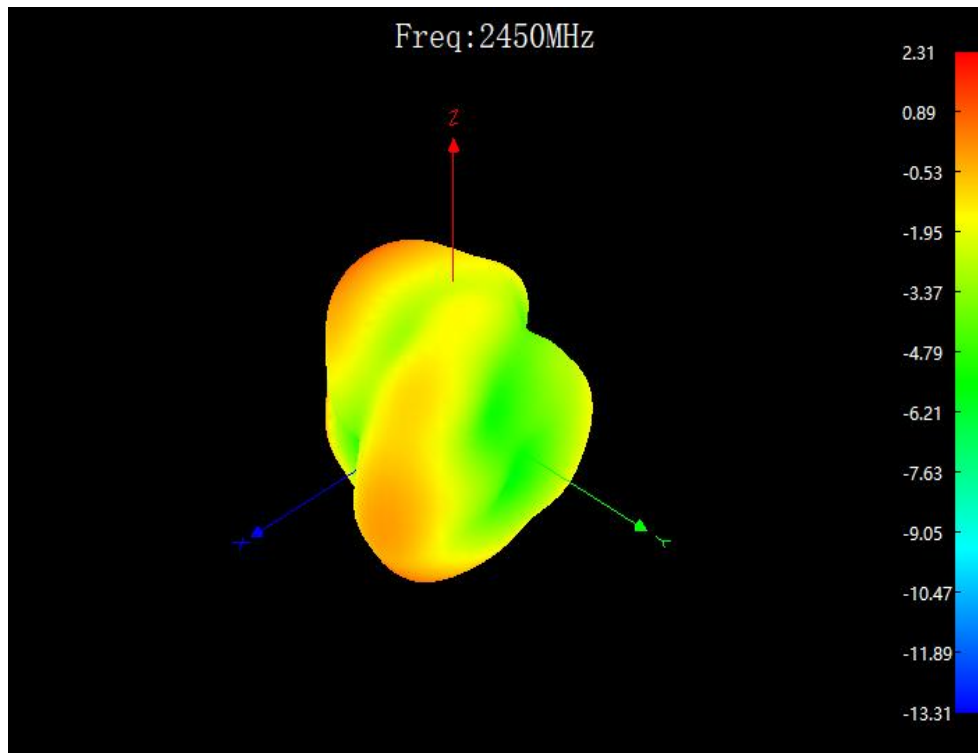


3D Directional Chart

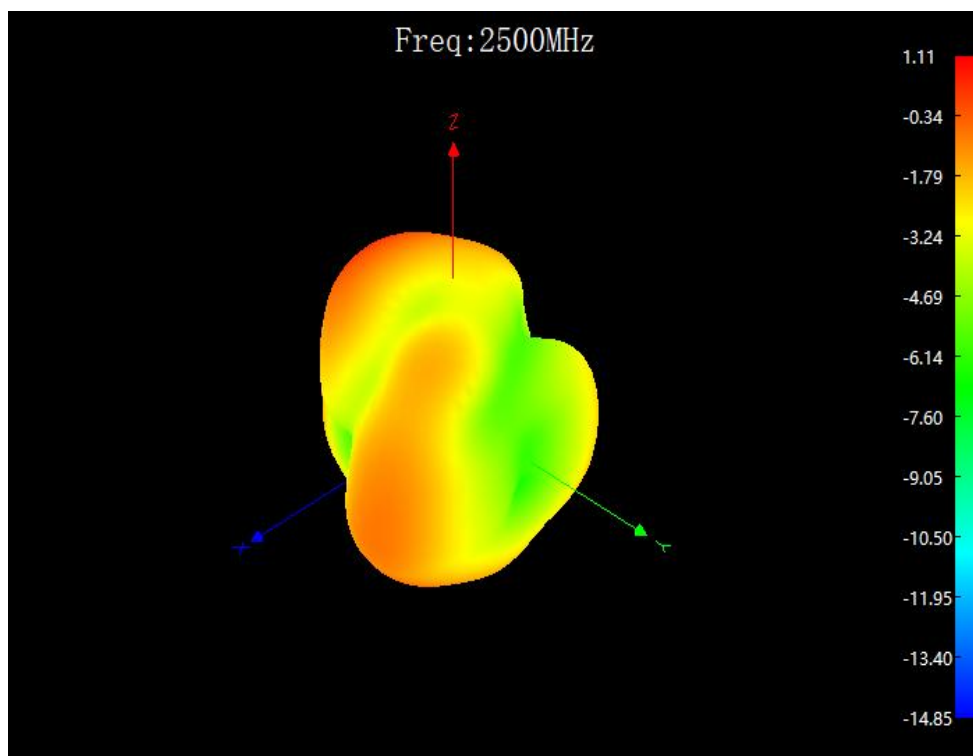
2400MHz



2450MHz

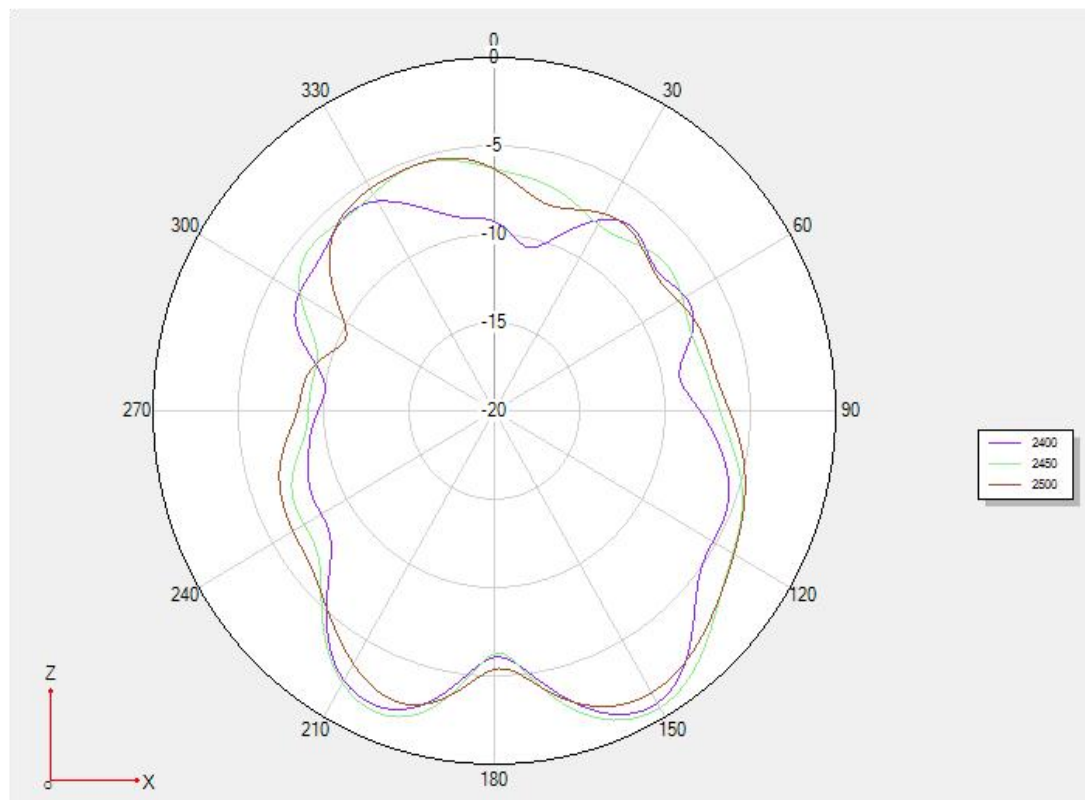


2500MHz

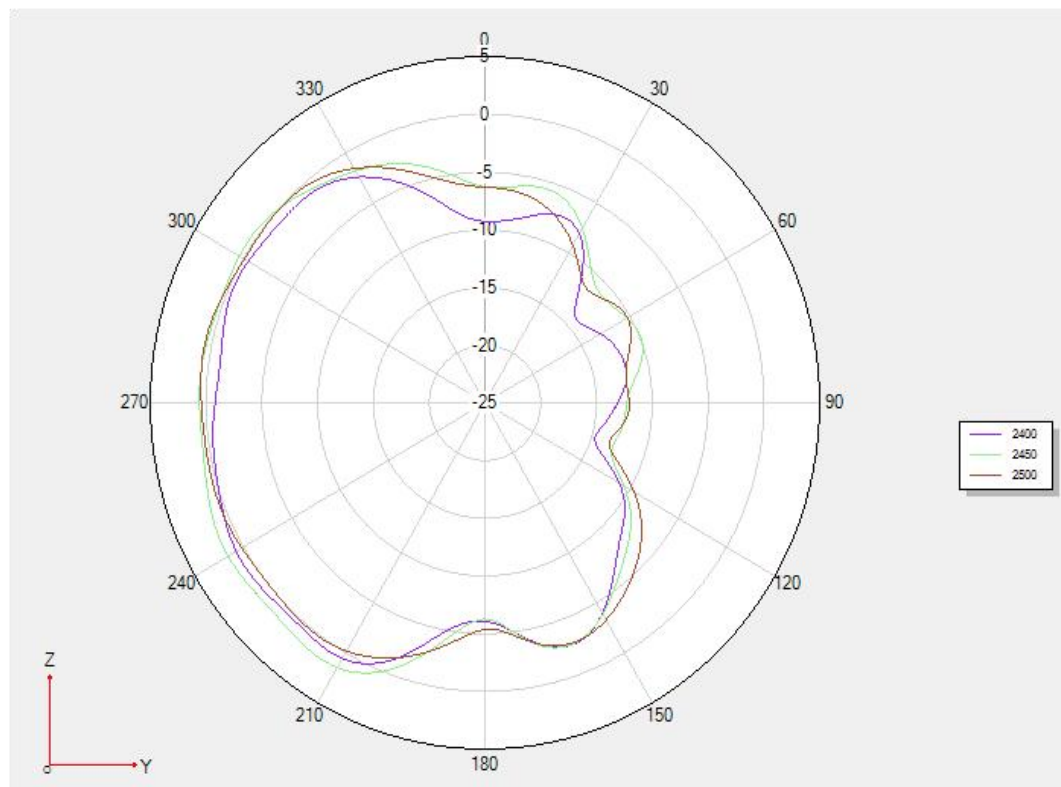


2D pattern

Phi 0



Phi 90



Theta 90

