



好天线 · 优比造

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Specification

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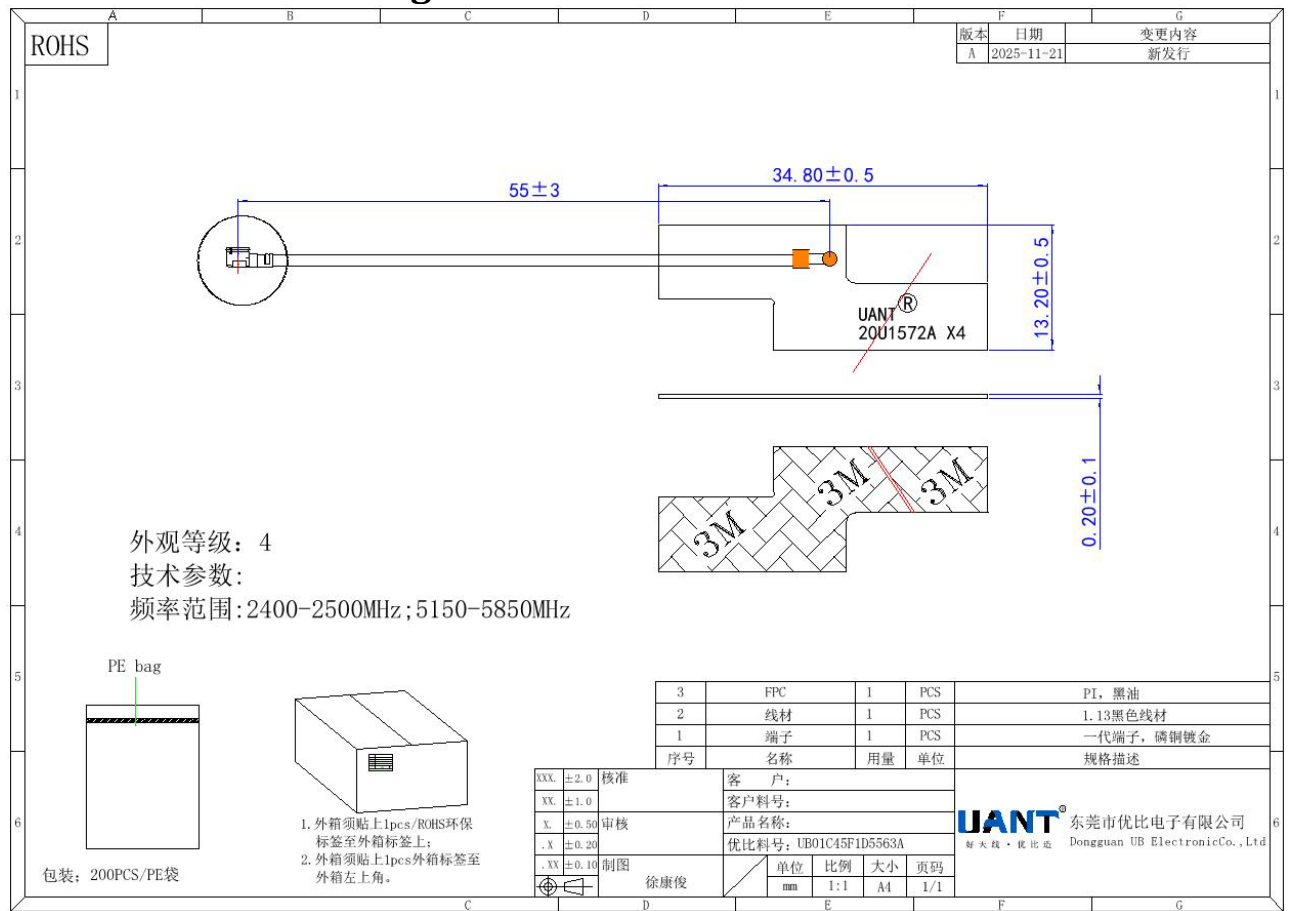
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➤ **Antenna technical parameters**

Model	UB01C45F1D5563A
Type	FPC
Frequency range	2.4G/5.8G
Appearance	FPC+ Aerial feeder
Efficiency	49.11%@2.4G; 63.47%@5.8G
Gain (dBi)	2.66dbi@2.4G; 4.48dbi@5.8G
Direction	Omnidirectional antenna
Connect type	IPEX
Antenna size	34.8*13.2*0.2mm
Feeder specification	1.13 line
Feeder Loss	0.5dB·m-1@1GHz, 1dB·m-1@3GHz, 3dB·m-1@6GHz
RL (return loss)	< -10dB
Characteristic impedance	50Ω
Storage temperature	-20~70°C
Working temperature	-20~70°C
Capacity	/
IP rate	/
Withstand voltage	500V

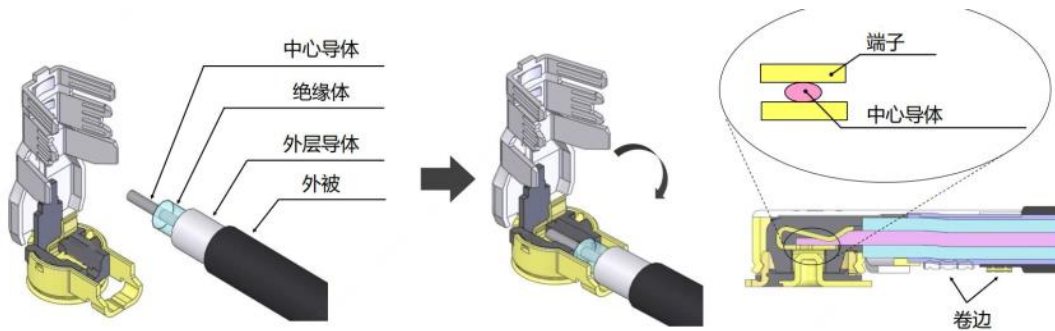
➤ Product 2D drawing



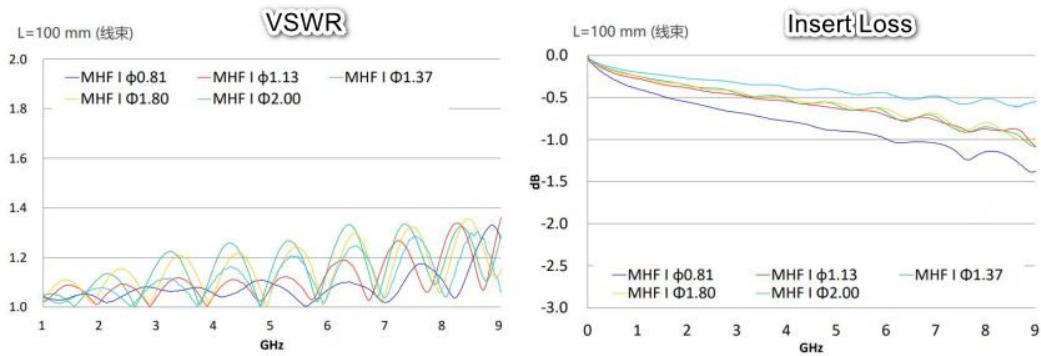
➤ IPEX connector specification

Mated Height (mm max.)		(1) 2.5 (2) 3.0	
Rece. SMT Size (mm)		3.1 x 3.0	
Applicable Frequency		Dc ~ 9 GHz	
Characteristic Impedance		50 ohm	
VSWR (L=100 mm)	Connector	PLUG	RECEPTACLE
	DC~3 GHz	1.3 max.	1.3max.
	3~6 GHz	1.5 max.	1.4max.
	6~9 GHz	(1) 1.9 max. (2) 1.6 max.	1.8max.

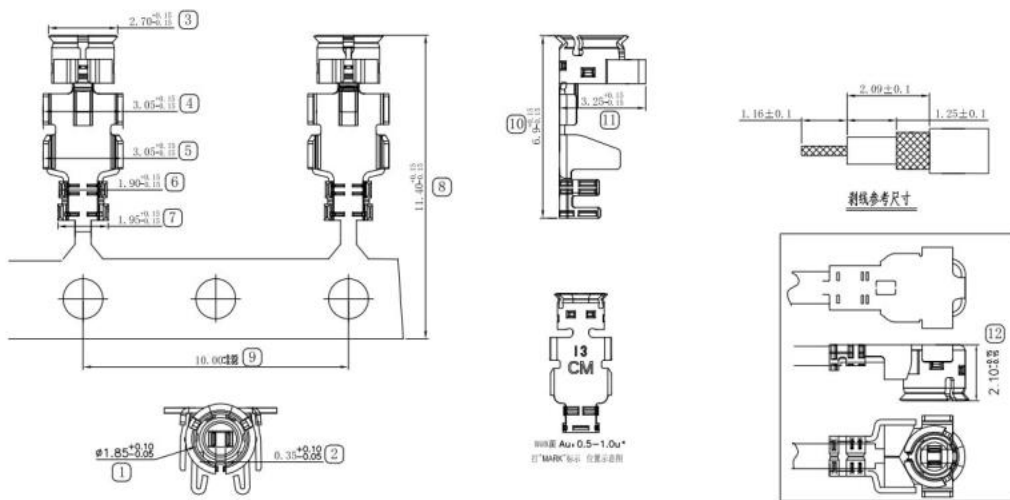
➤ Connector structure diagram



➤ Behaviour of electricity



➤ Size



➤ Coaxial-cable electrical performance parameters

Capacitance (pF/m)	95.6
Impedance (ohm)	50
Transmission rate (%)	70
Working frequency (GHz)	6.0
Max working voltage(Vrms)	1000

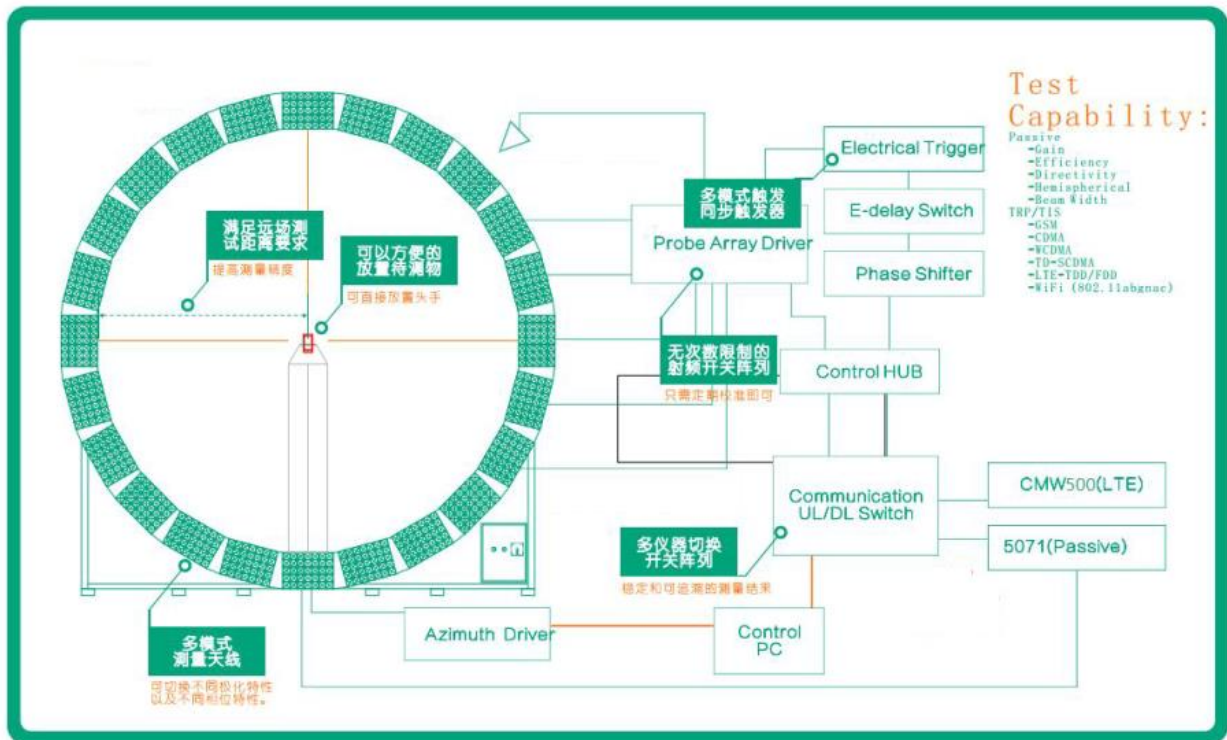
➤ Attenuation

Frequency (GHz)	Attenuation (dB/m)
1.0	2.3
2.0	3.1
3.0	3.9
4.0	4.6
5.0	5.1
6.0	5.8

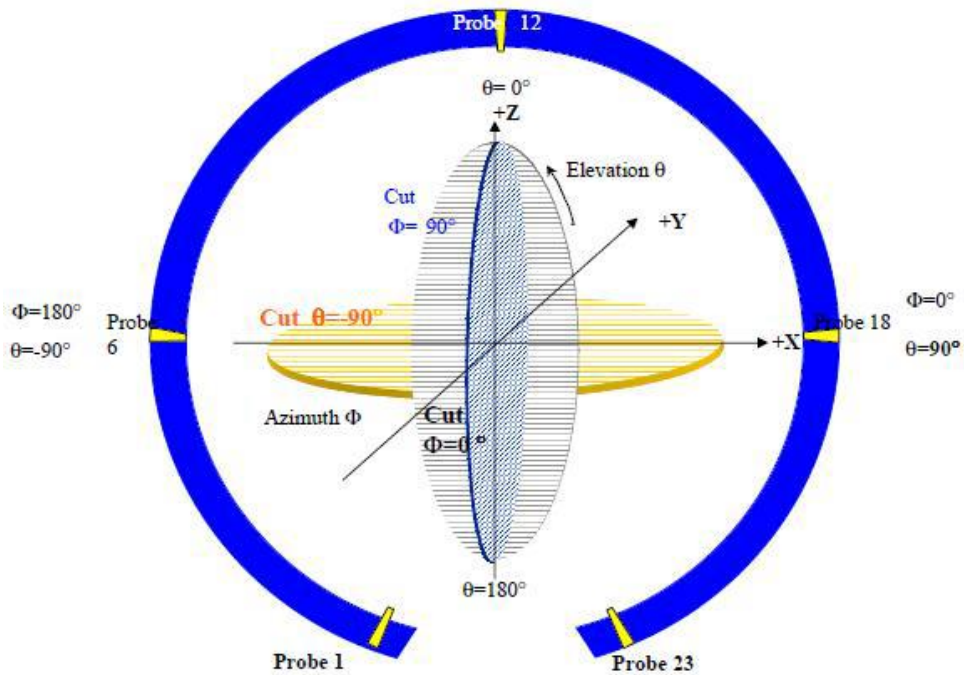
➤ Testing equipment list

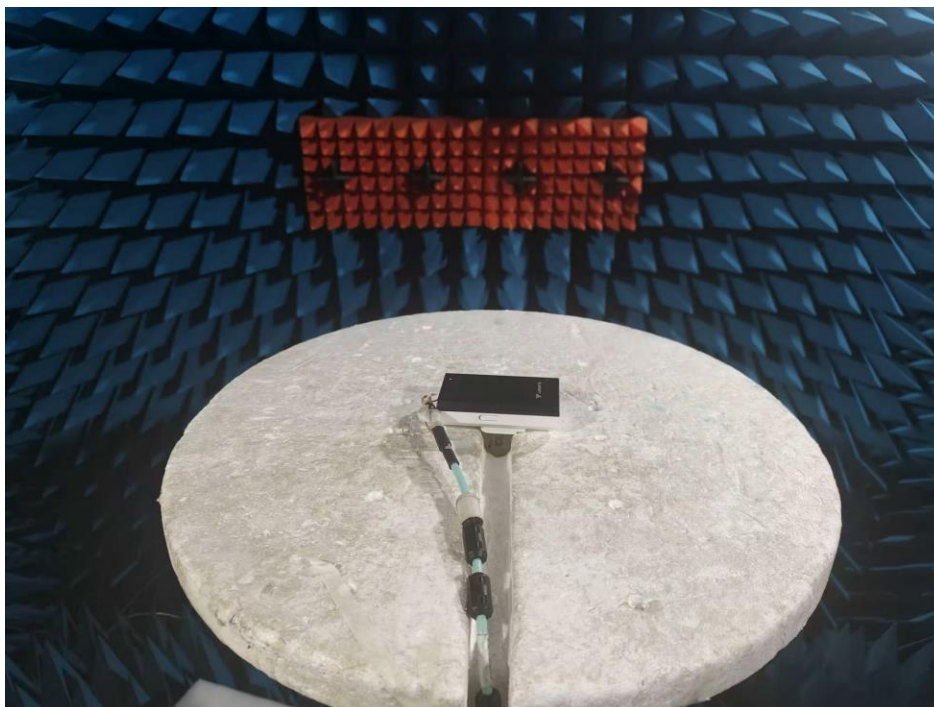
Device name	Manufacturer	Model#	Series Number
Network Analyzer	Agilent	E5071C	MY46315996
Radio Communication Tester	ROHDE&SCHWARZ	CMW500	0002K50-100844

➤ Test configuration diagram

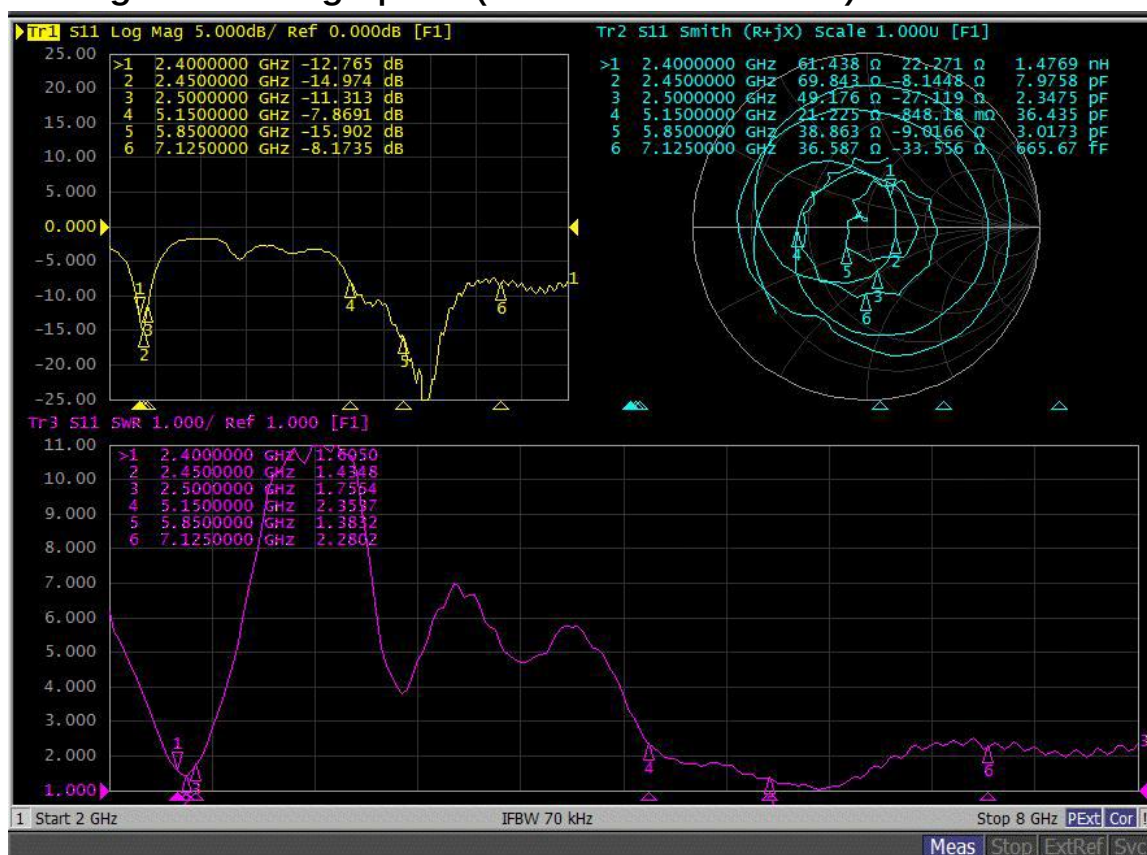


➤ Device position





➤ Testing result and graphics (Return loss vs. VSWR)

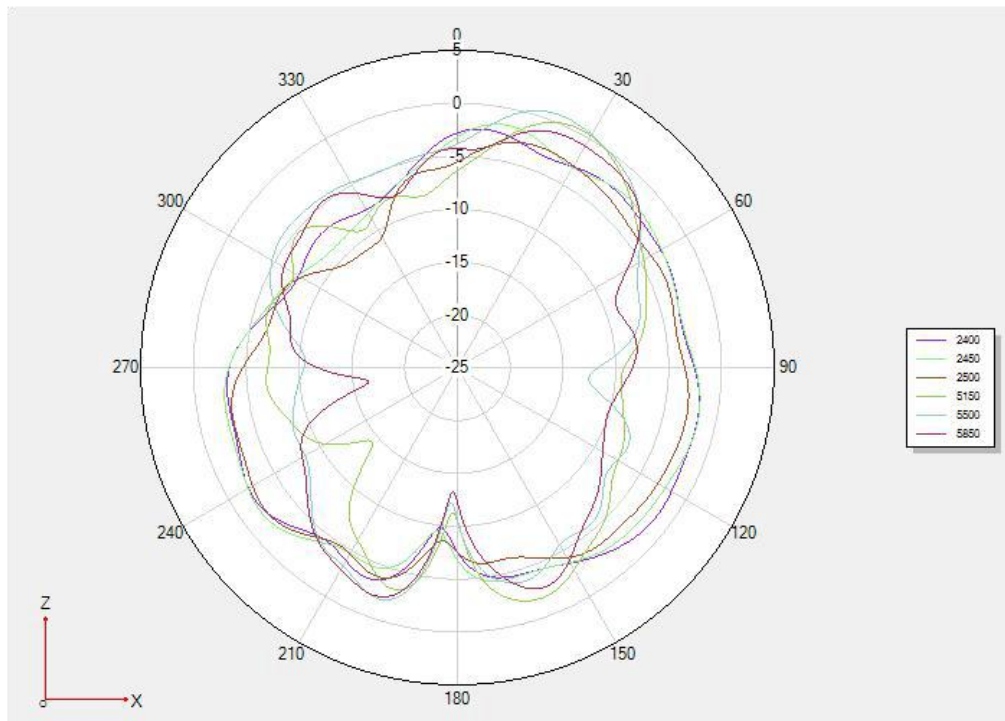


➤ **Efficiency**

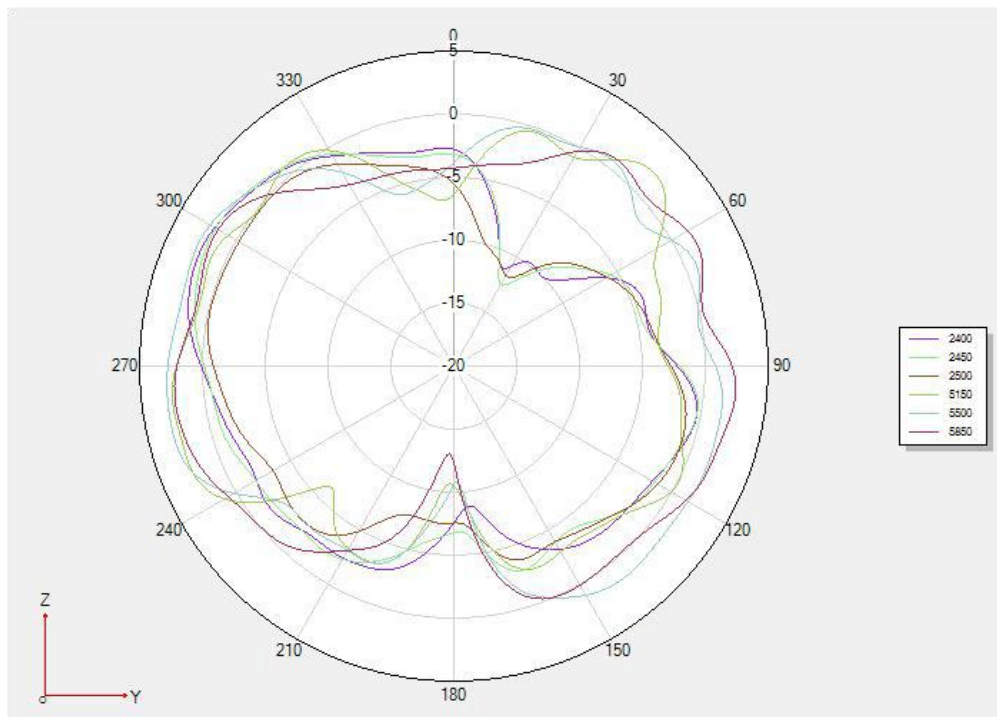
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-3.01	50	2.31
2410	-3.2	47.86	2.33
2420	-2.77	52.84	2.66
2430	-3.2	47.86	2.59
2440	-3	50.12	2.34
2450	-3.13	48.64	2.58
2460	-3.15	48.42	2.11
2470	-3.09	49.09	2.34
2480	-3.15	48.46	1.46
2490	-3.26	47.21	1.64
2500	-3.04	49.71	1.41
5150	-2.61	54.83	4.3
5200	-2.94	50.82	3.64
5250	2.6	54.95	3.61
5300	-2.35	58.21	3.48
5350	-1.65	68.39	4.29
5400	-1.98	63.39	3.92
5450	-1.93	64.12	3.44
5500	-1.69	67.76	3.6
5550	-1.96	63.68	3.01
5600	-1.95	63.83	3.13
5650	-1.64	68.55	3.75
5700	-1.7	67.61	3.8
5750	-1.56	69.82	3.9
5800	-1.87	65.01	3.66
5850	-1.48	71.12	4.48

➤ 2D Direction

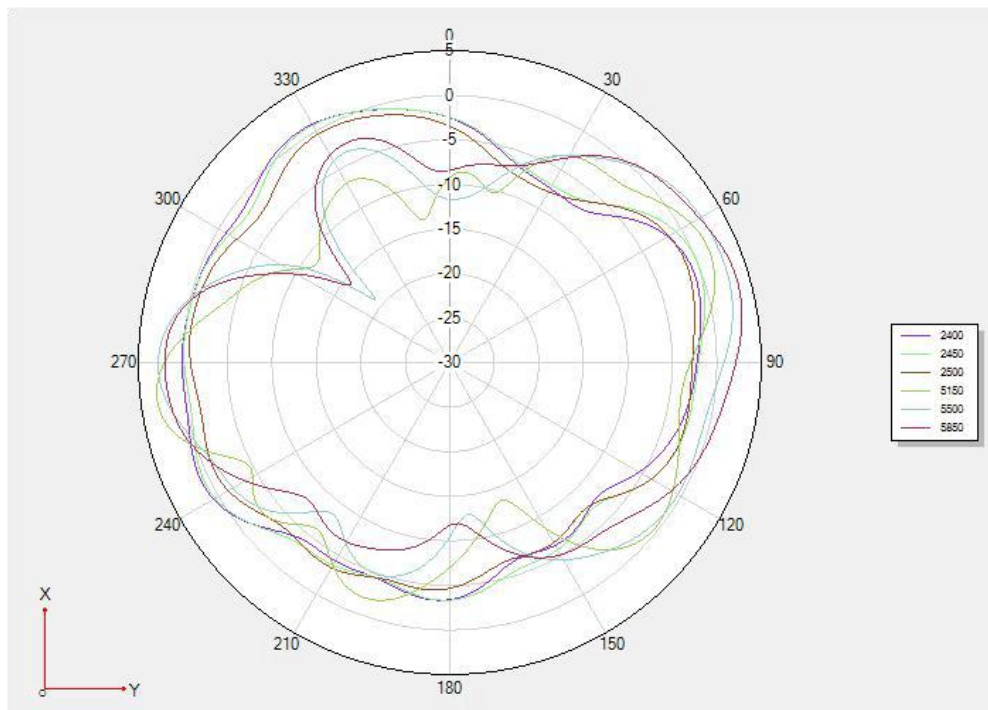
Phi 0



Phi 90



Theta 90



➤ 3D Direction

