



SPECIFICATION FOR APPROVAL

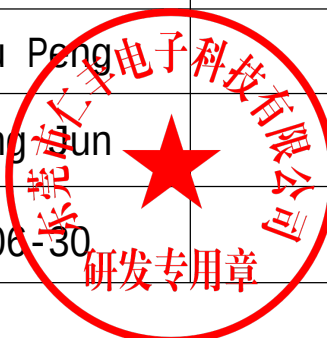
CUSTOMER NAME: GL. iNet

PRODUCT NAME: 2.4/5G L=40mm

CUSTOMER P/N:

Ren Feng P/N: 3010101205 REV: C

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Li Jia Xing	
AUDITOR BY:	Xing Yu Peng	
APPROVED BY:	Yao Ding Jun	
DATE:	2025-06-30	



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3.Revision history

[illegible]

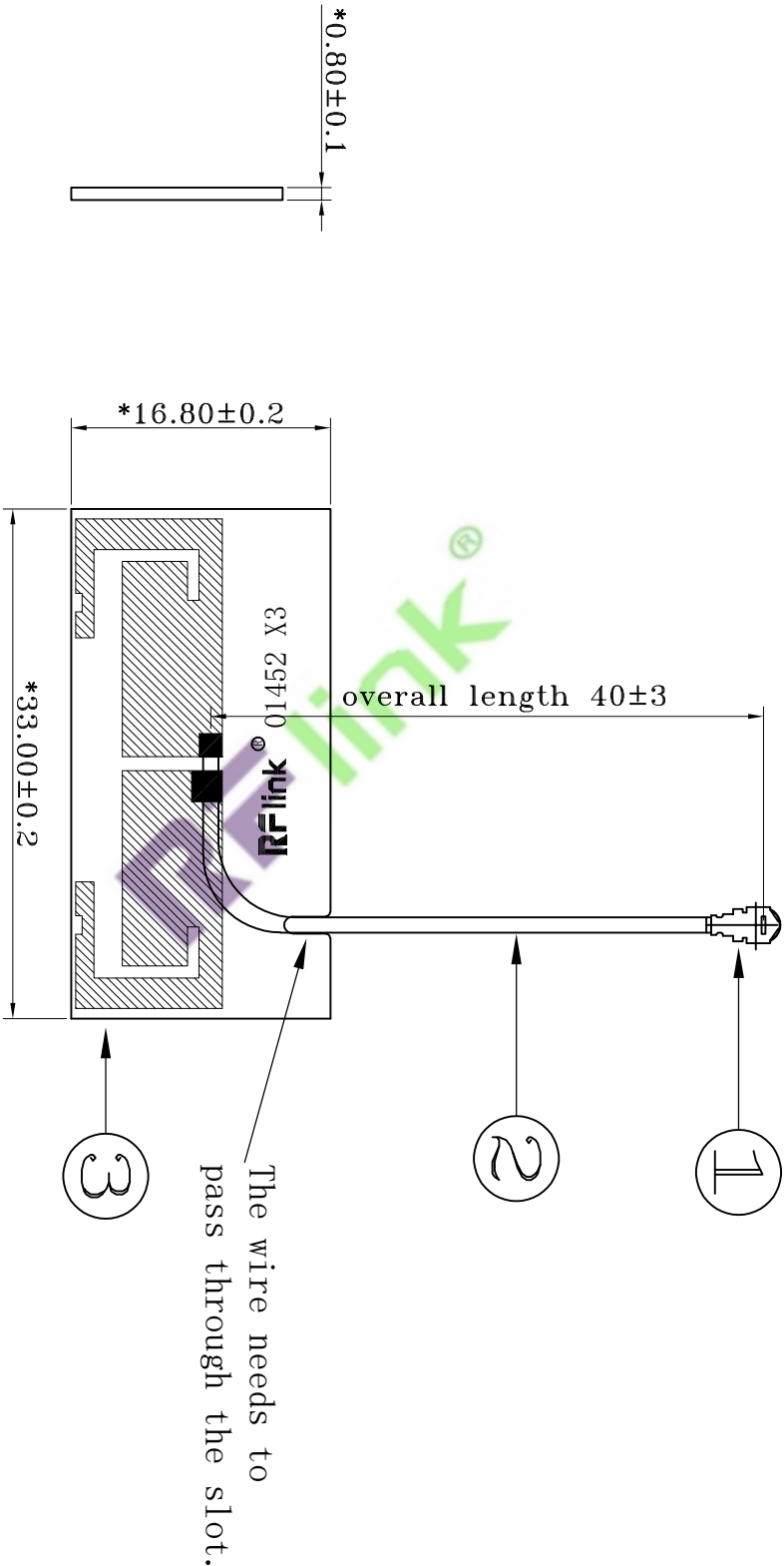
4.Specification Table:

Maintechnical parameters ofthe product

Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500 5150-5850	Frequency Range (MHZ)	2400-2500 5150-5850
Impedance (Ω)	50	Impedance(Ω)	50
Peak Gain (dBi)	2.4G:5.7 5G:4.97	Peak Gain(dBi)	2.4G:5.7 5G:4.97
VSWR	≦2.0	VSWR	≦2.0
Connector Type	Copper	Connector Type	Copper
Physical Properties		Physical Properties	
Antenna cover	PCB	Antenna cover	PCB
Operating Temp	-40℃~+70℃	Operating Temp	-40℃~+70℃
Storage Temp	-40℃~+70℃	Storage Temp	-40℃~+70℃

REV	DATE	DESCRIPTION	Change the code
A	2025-05-16	NEW ISSUE	
B	2025-06-26	Change the line length	

Terminal orientation is
as shown in the figure.



Specification:
Frequency Range: 2.4~2.5GHz
5.15~5.85GHz
VSWR: 2.0MAX

				Range of sizes (mm)		Tolerance (mm)		APPROVED		
3	POB	1	FR-4;	0<L≤6 ±0.10						
2	Cable	1	φ1.13 Black	6<L≤30 ±0.10						
6	1	Copper	1	Copper;	30<L≤90 ±0.15					
				90<L≤180 ±0.20						
				180<L≤315 ±0.25						
NO.	DESCRIPTION	Q'TY	REMARK	315<L≤600 ±0.35						
With tolerance dimensions as the inspection dimensions				DRAWING						
The product complies with the requirements of the environmental protection RoHS 2.0 standard						Angle		±0.5°		
A		B		C		D		E		
								F		
								G		


RenFeng Electronic technology Co., LTD.

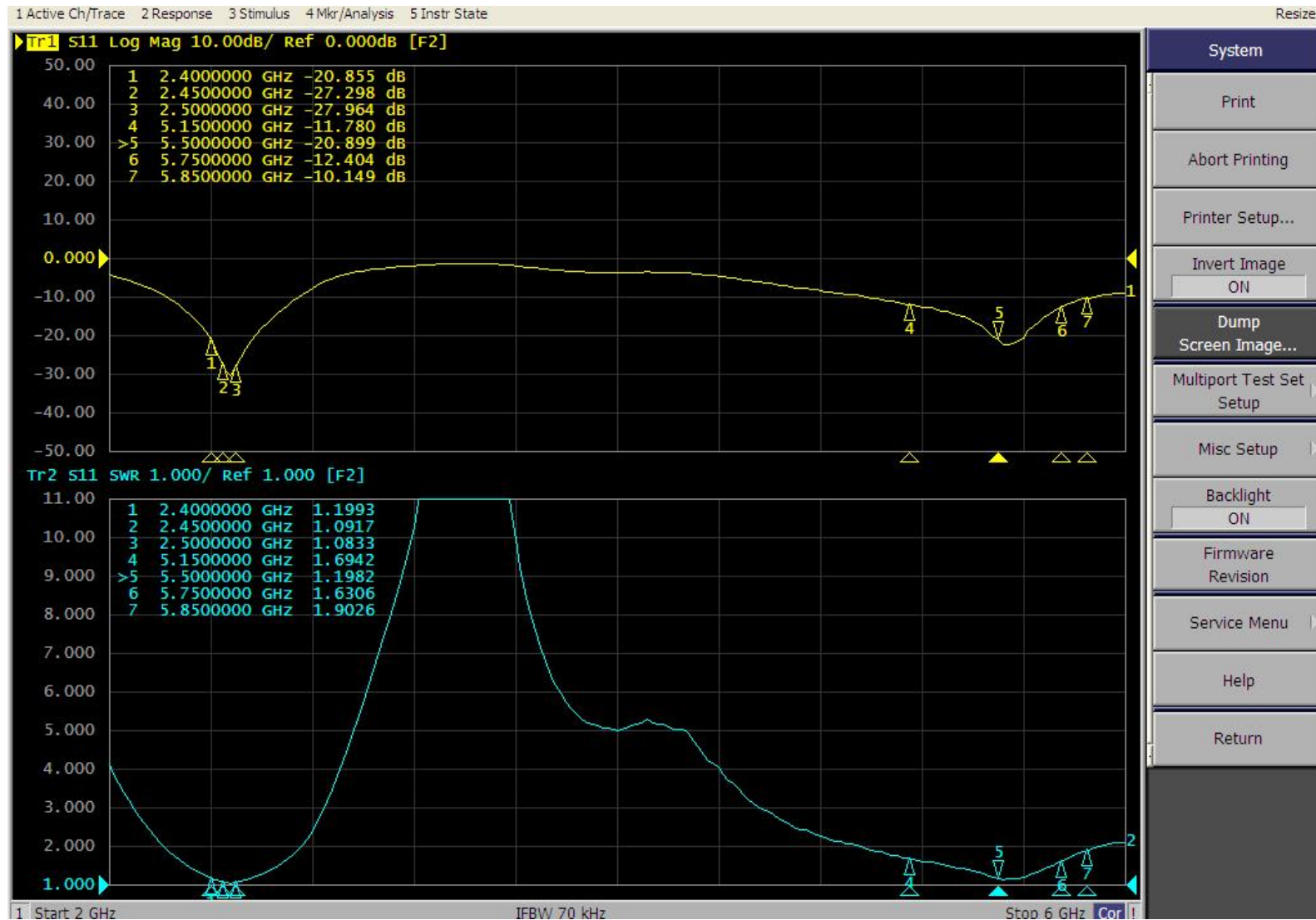
1、Item information

1.4 Electrical specifications

working frequency range				Electrical specification table												
serial number	object ID		port	cable			irradiator	plastic	characteristic impedance	VSWR	reflection loss	gain	radiant efficiency	directivity	polarization mode	power capacity
				name	texture	colour										
ANT1		2400-2500MHz 5150-5850MHz	IPEX	1.13		Black	PCB	/	50	≡2.0	≡-9.5	4.8/4.6	≧50%	Horizontal omnidirectional	vertical polarization	1W

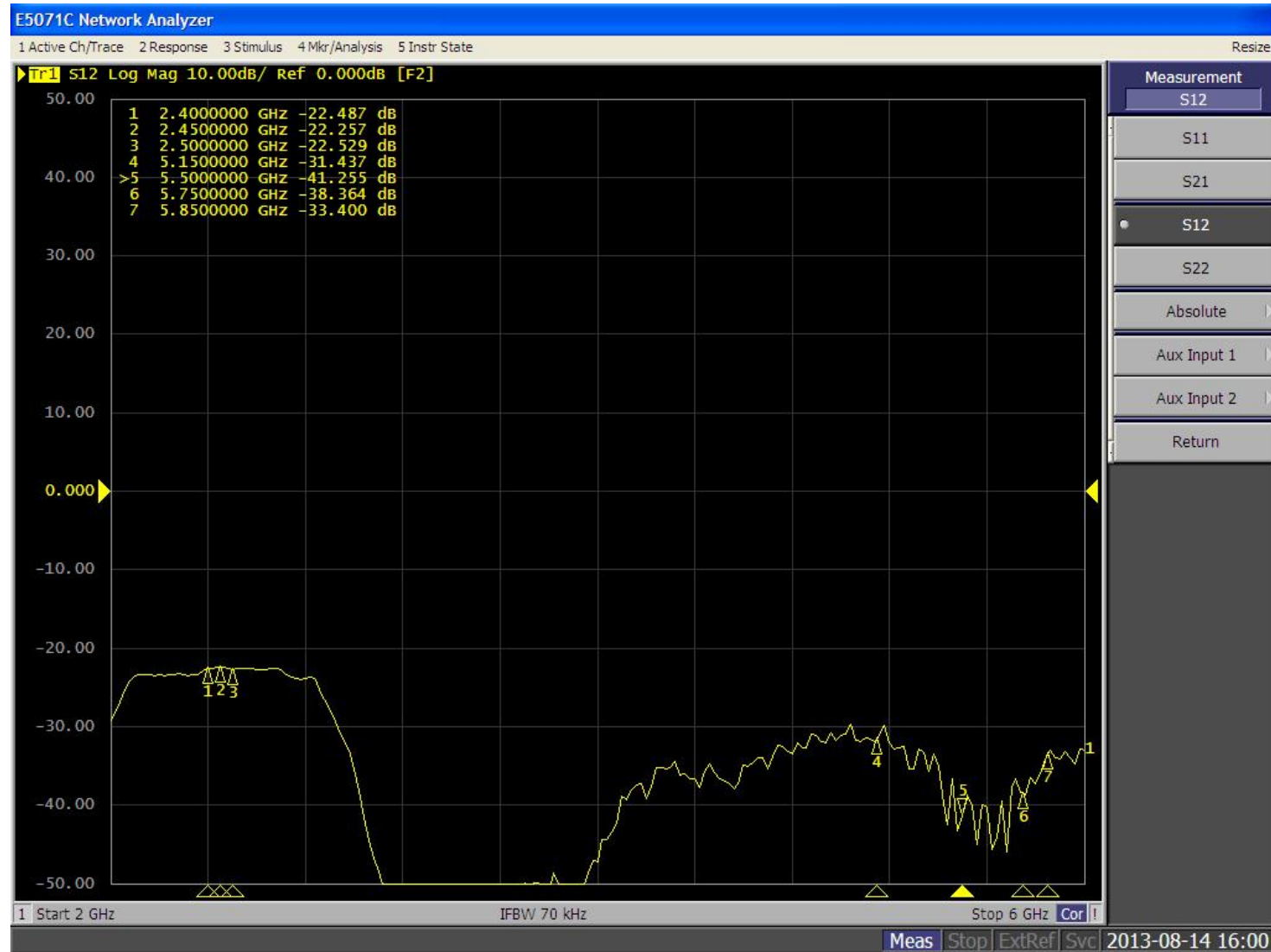
2、Passive report

2.1 Reflection parameters S11----ANT1-2.4/5G



2、Passive port

2.2 isolation parameters S12-----ANT1&ANT2-2.4/5G



2、Passive port

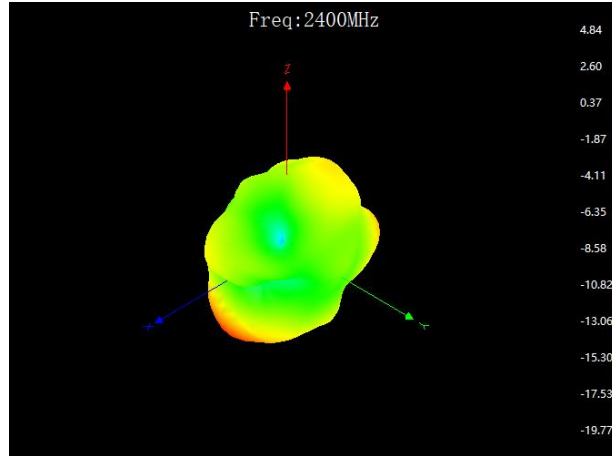
2.3 Radiation Parameter table

ANT1-2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	61.8	4.84
2410	60.81	5.7
2420	59.7	5.53
2430	60.12	5.34
2440	60.53	5.14
2450	60.95	4.96
2460	59.02	4.73
2470	58.34	4.54
2480	57.81	4.22
2490	57.68	4.05
2500	56.62	3.84

ANT1-5G		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	57.28	3.91
5200	56.89	4.07
5250	60.12	4.58
5300	59.7	4.04
5350	62.81	4.97
5400	62.66	4.75
5450	62.09	4.49
5500	64.12	4.89
5550	62.23	4.67
5600	60.53	4.87
5650	59.29	4.8
5700	57.28	4.77
5750	56.89	4.86
5800	53.09	4.65
5850	50.35	4.41

2、Passive port

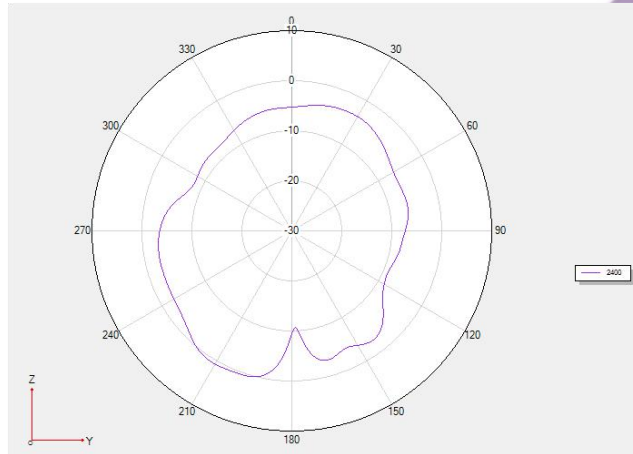
2.4 antenna pattern



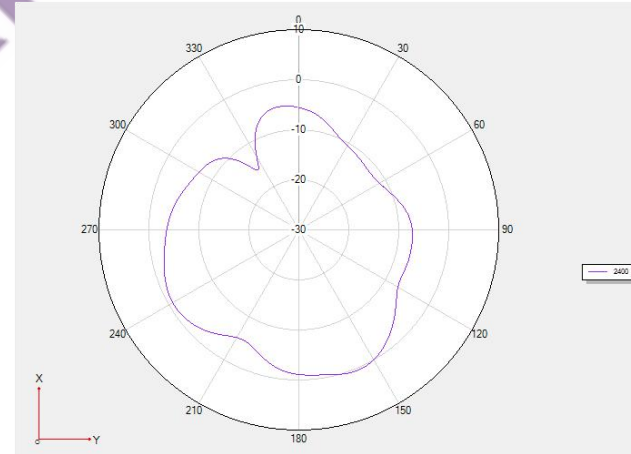
3D directional diagram



E1 PHI=0



E2 PHI=90

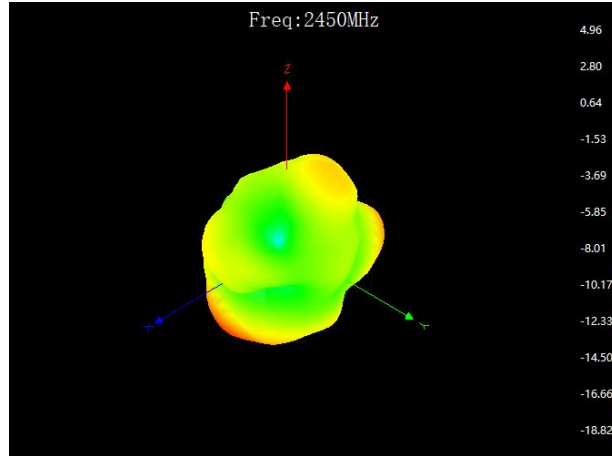


H THETA=90

ANT1-2400MHz

2、Passive port

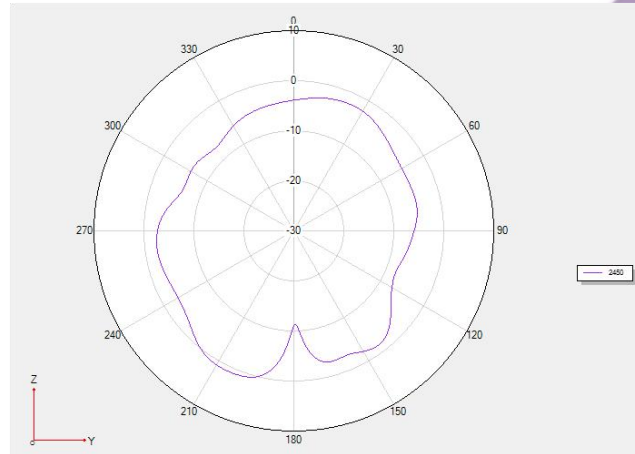
2.4 antenna pattern



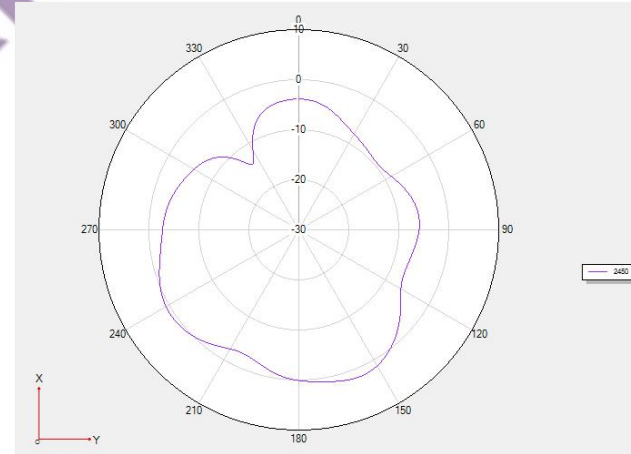
3D directional diagram



E1 PHI=0



E2 PHI=90

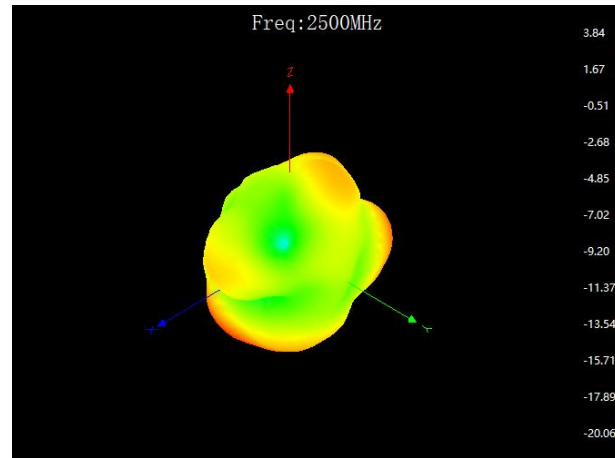


H THETA=90

ANT1-2450MHz

2、Passive port

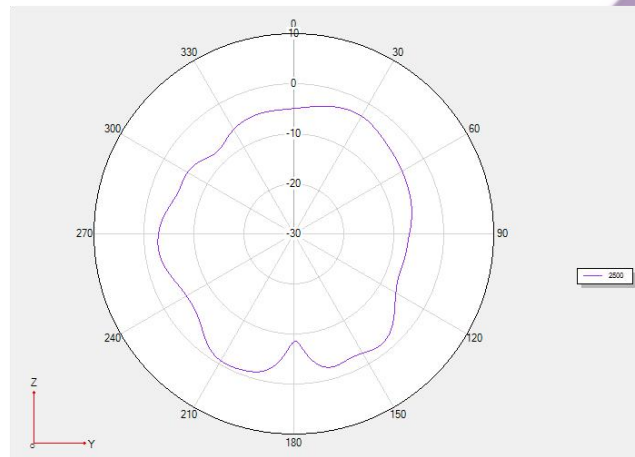
2.4 antenna pattern



3D directional diagram



E1 PHI=0



E2 PHI=90

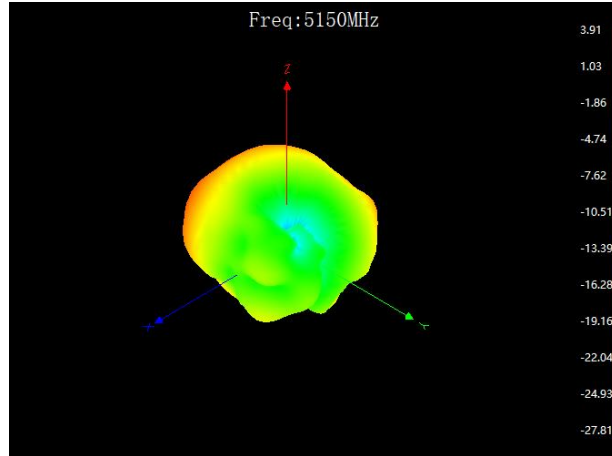


H THETA=90

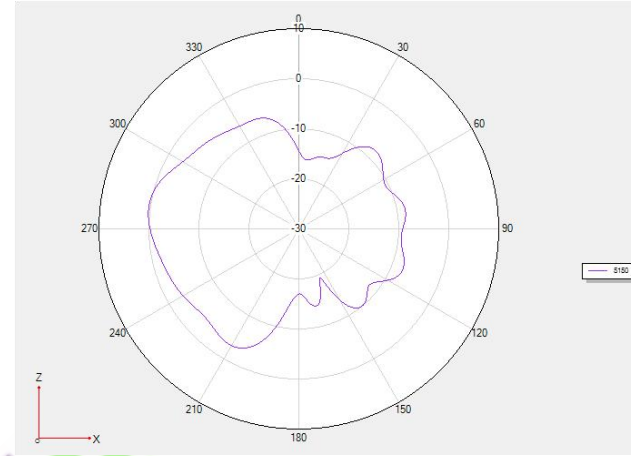
ANT1-2500MHz

2、Passive port

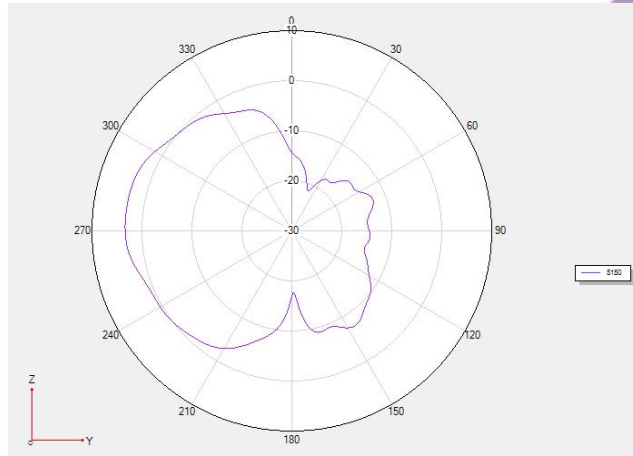
2.4 antenna pattern



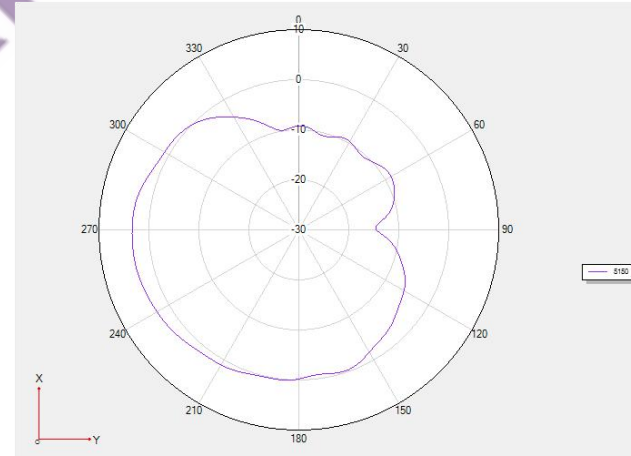
3D directional diagram



E1 PHI=0



E2 PHI=90

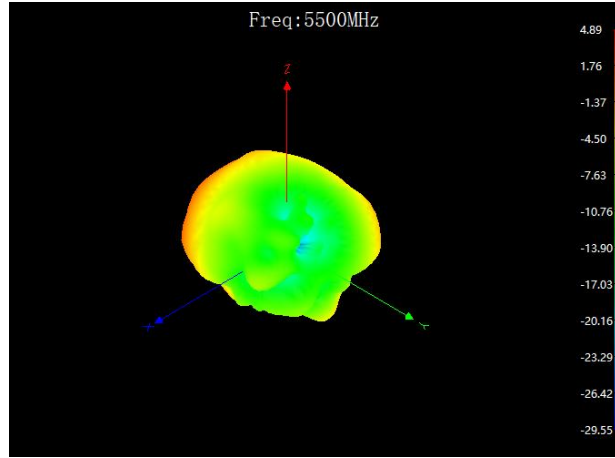


H THETA=90

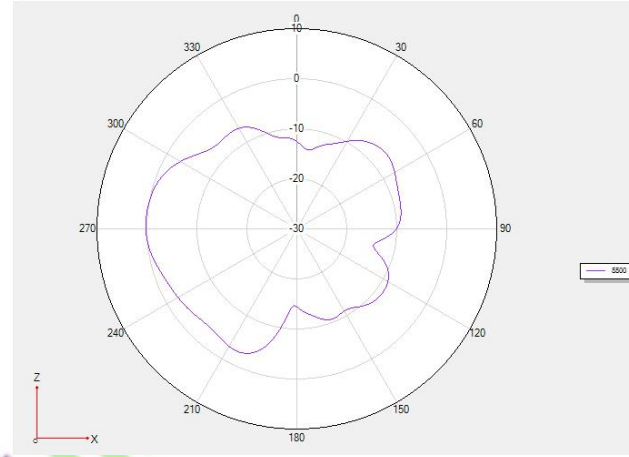
ANT1-5150MHz

2、Passive port

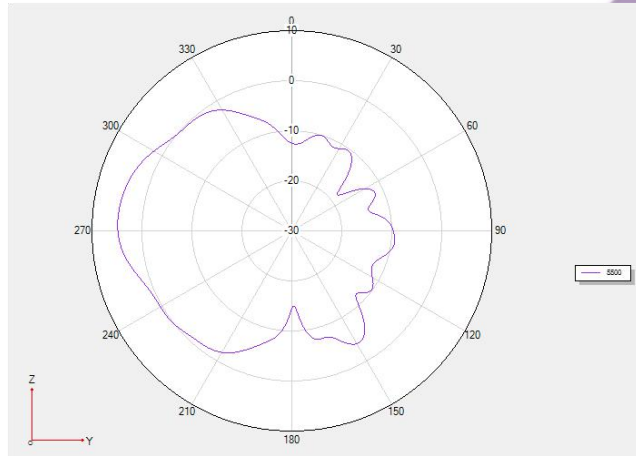
2.4 antenna pattern



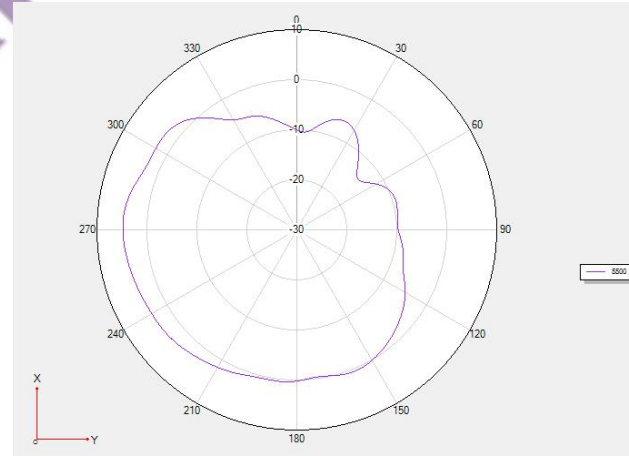
3D directional diagram



E1 PHI=0



E2 PHI=90

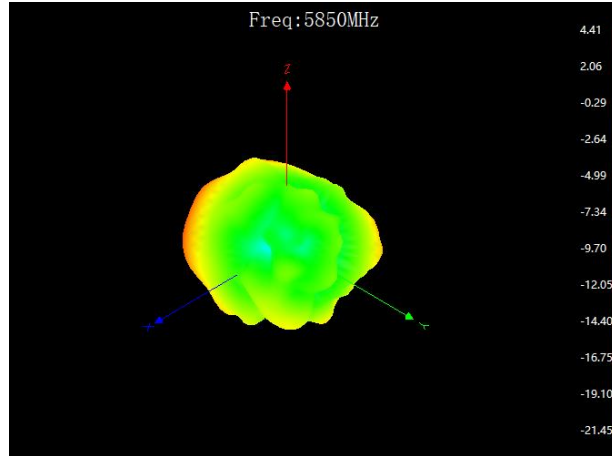


H THETA=90

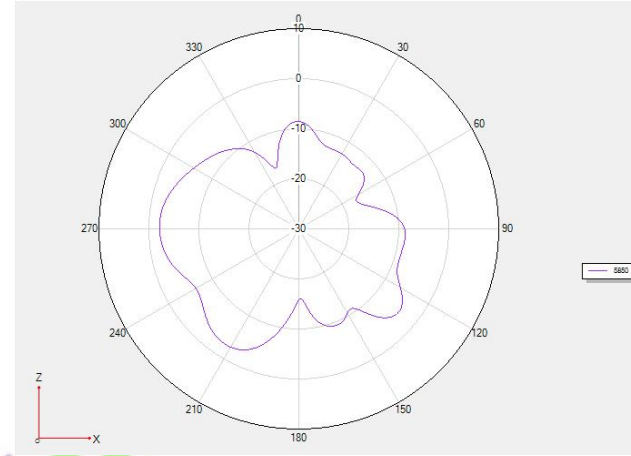
ANT1-5500MHz

2、Passive port

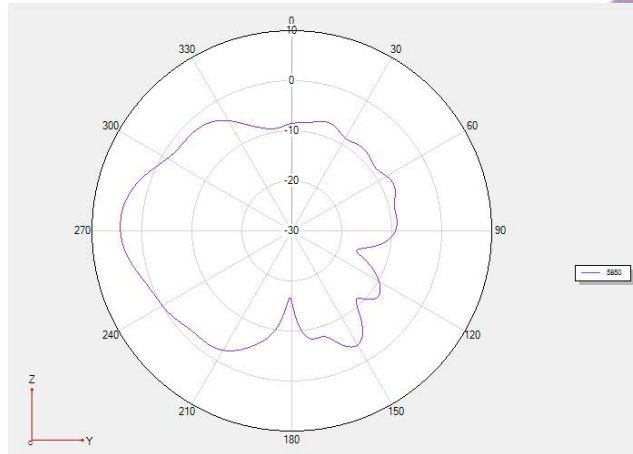
2.4 antenna pattern



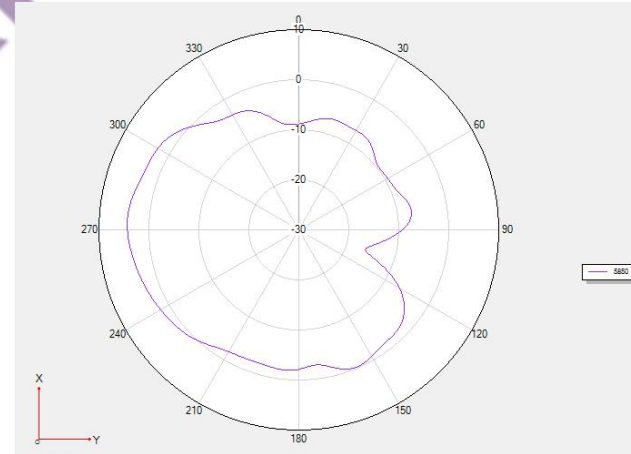
3D directional diagram



E1 PHI=0



E2 PHI=90



H THETA=90

ANT1-5850MHz