



SPECIFICATION FOR APPROVAL

CUSTOMER NAME: GL.iNet

PRODUCT NAME: 2.4/5G L=95mm

CUSTOMER P/N:

Ren Feng P/N: 3010101206 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

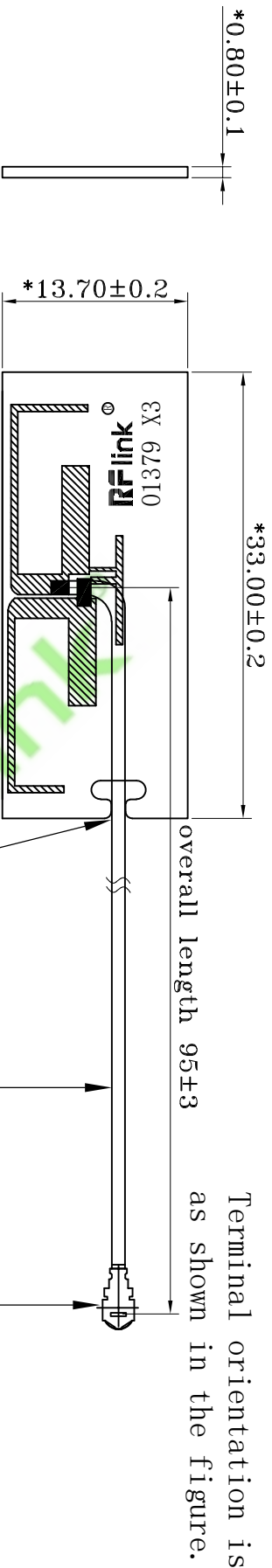
[illegible]

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:4.56 5G:4.58	Peak Gain(dBi)	2.4G:4.56 5G:4.58
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	



The wire needs to pass through the slot.

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

				Range of sizes (mm)		Tolerances (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												
				80<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					
								COSTOMER		PART NO. :		RF link					
								PARTNAME : RF Antenna Assembly		RenFeng Electronic technology							
								R.F P/NO : 3010101206		Co., LTD.							
								REV		UNIT		SCALE		SIZE		SHEET	
								mm		1:1		A4		10F1			

NO.	DESCRIPTION	QTY	REMARK
1	Copper	1	Copper:
2	Cable	1	FR-4: Ø1.13 Black
3	PCB	1	

With tolerance dimensions as the inspection dimensions
The product complies with the requirements of the environmental protection RoHS 2.0 standard

A	B	C	D	E	F	G
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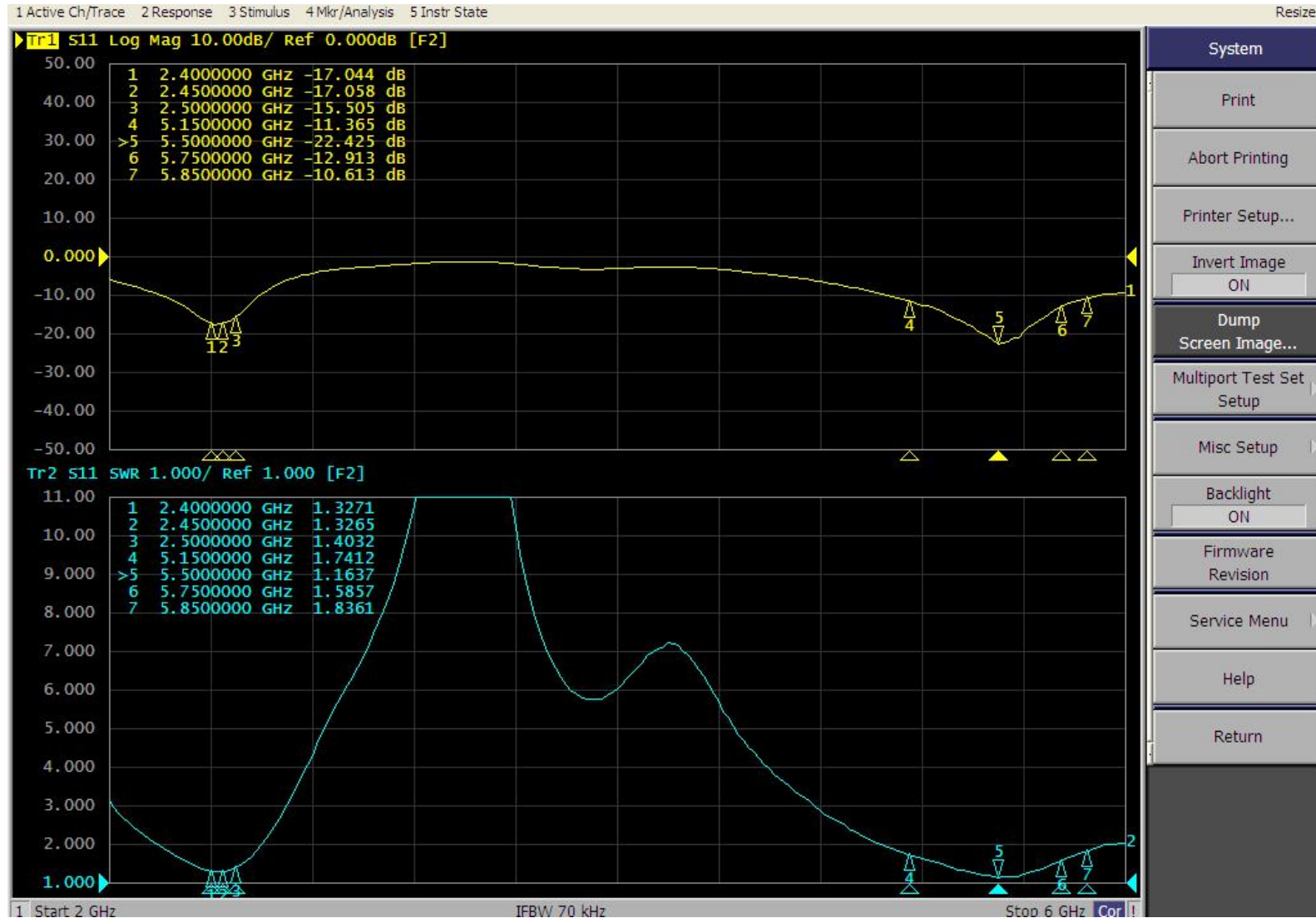
1、Item information

1.4 Electrical specifications

working frequency range				Electrical specification table												
serial numb er	object ID		port	cable			irradi ator	plastic	characteristic impedance	VSWR	reflection loss	gain	radiant efficiency	directivity	polarization mode	power capacity
				name	textur e	colour										
ANT1		2400-2500MHz 5150-5850MHz	IPEX	1.13		Black	PCB	/	50	≡2.0	≡-9.5	4.5/4.0	≧50%	Horizon tal om nidirec tional	vertical polar ization	1W

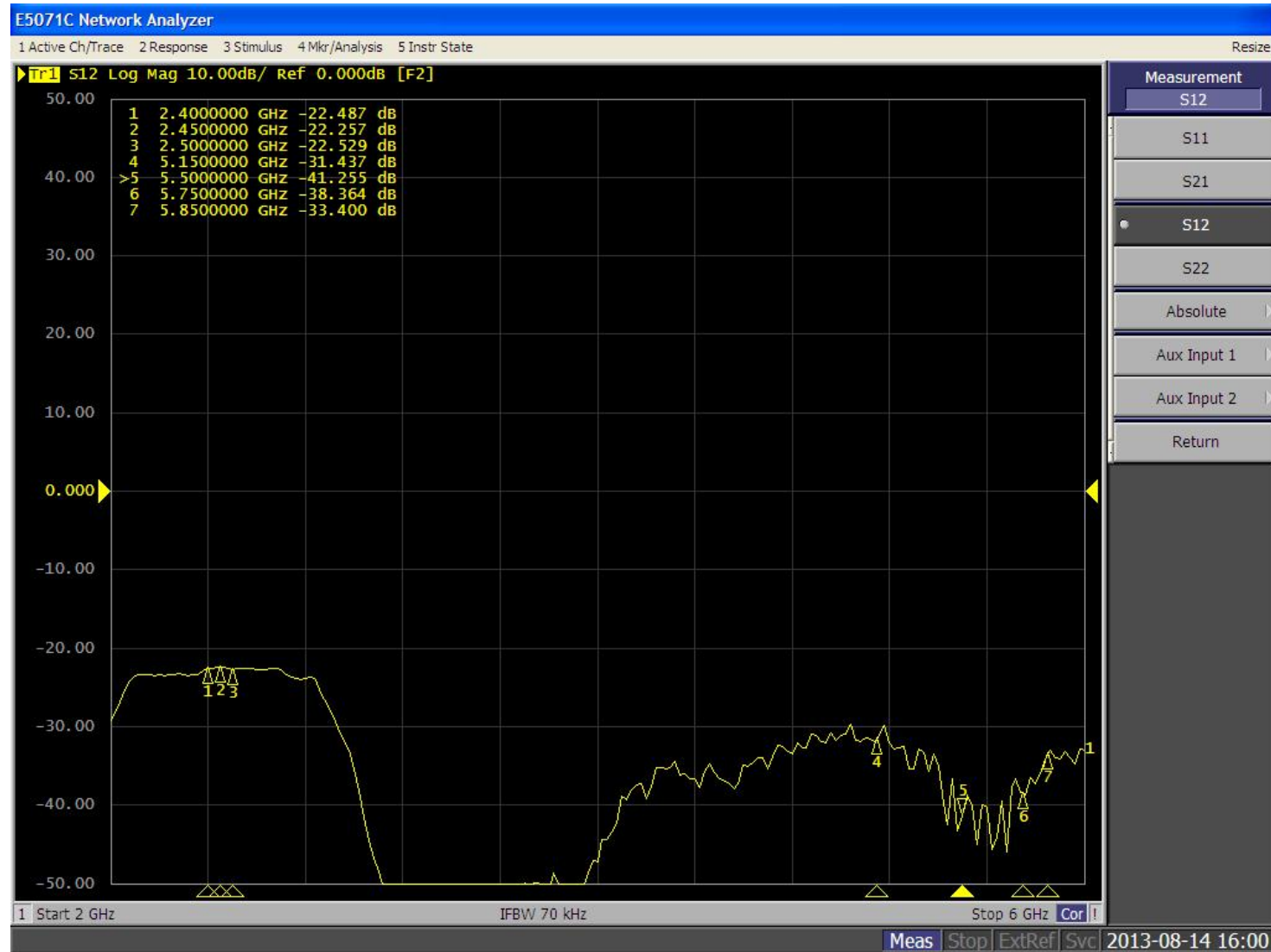
2、Passive report

2.1 Reflection parameters S11----ANT2-2.4/5G



2、Passive report

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



2、Passive report

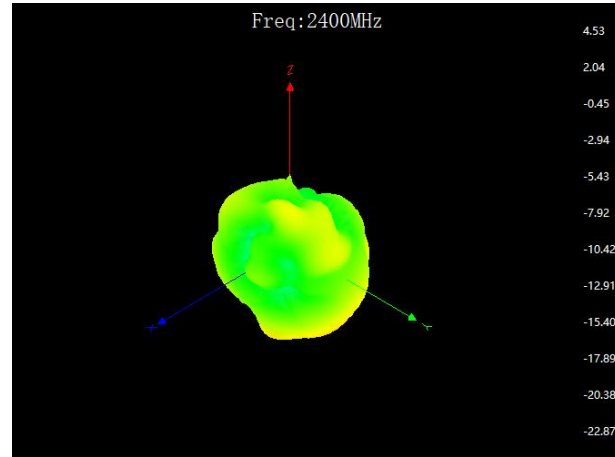
2.3 Radiation Parameter table

ANT2-2.4G		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	62.43	4.53
2410	61.92	4.44
2420	61.55	4.34
2430	61.77	4.36
2440	61.99	4.44
2450	62.36	4.49
2460	61.41	4.45
2470	60.97	4.5
2480	60.69	4.56
2490	60.41	4.7
2500	69.72	4.64

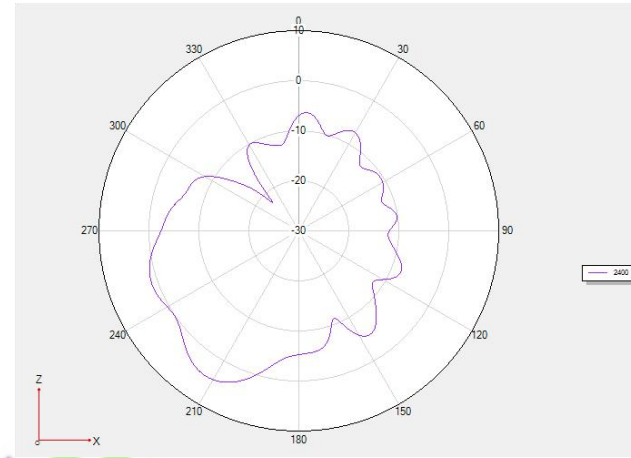
ANT2-5G		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	59.29	3.53
5200	59.57	3.64
5250	61.8	3.57
5300	63.24	4.1
5350	65.77	4.3
5400	65.61	4.61
5450	66.22	4.5
5500	67.14	4.53
5550	65.16	4.58
5600	64.86	4.54
5650	63.24	4.06
5700	61.52	3.59
5750	60.81	3.67
5800	56.89	3.45
5850	53.58	3.23

2、Passive report

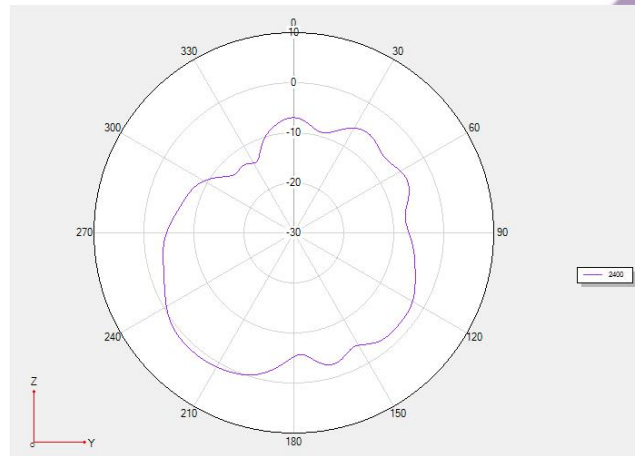
2.4 antenna pattern



3D directional diagram



E1 PHI=0



E2 PHI=90

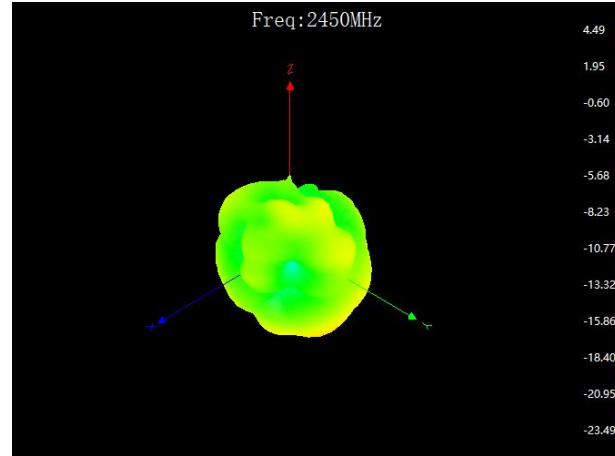


H THETA=90

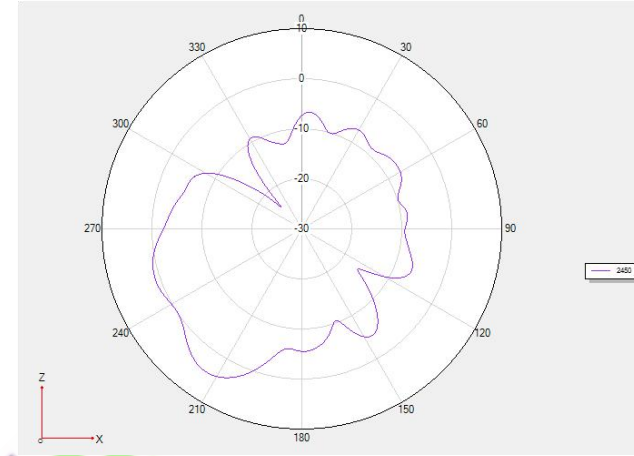
ANT2-2400MHz

2、Passive report

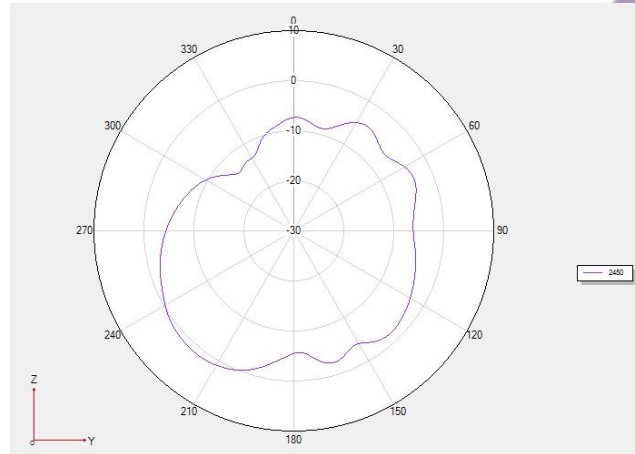
2.4 antenna pattern



3D directional diagram



E1 PHI=0



E2 PHI=90

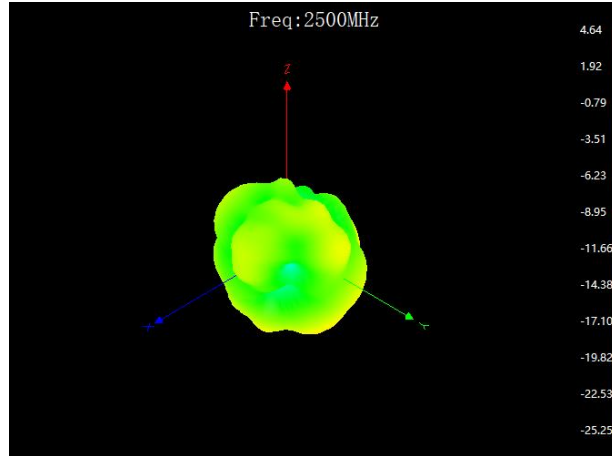


H THETA=90

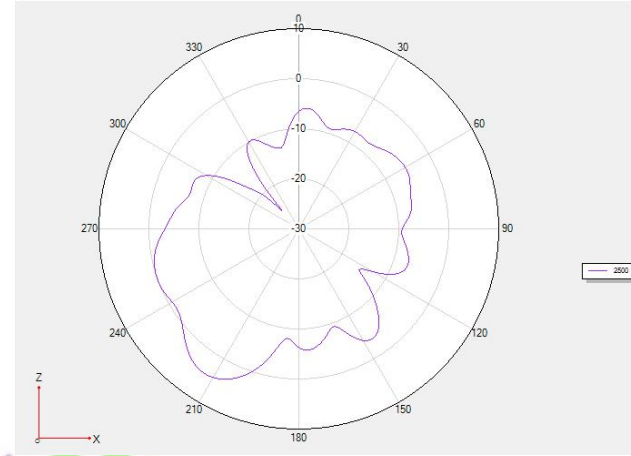
ANT2-2450MHz

2、Passive report

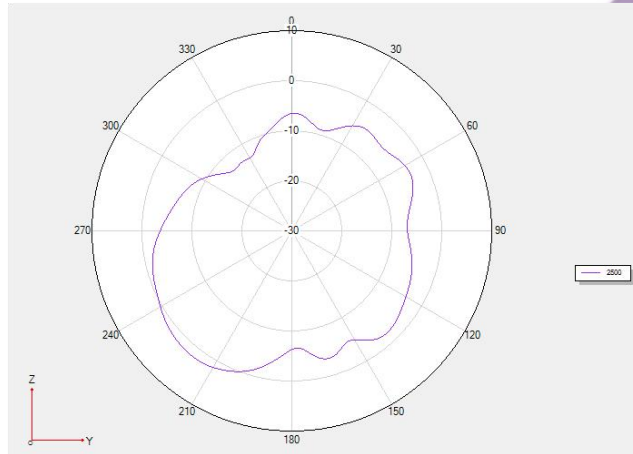
2.4 antenna pattern



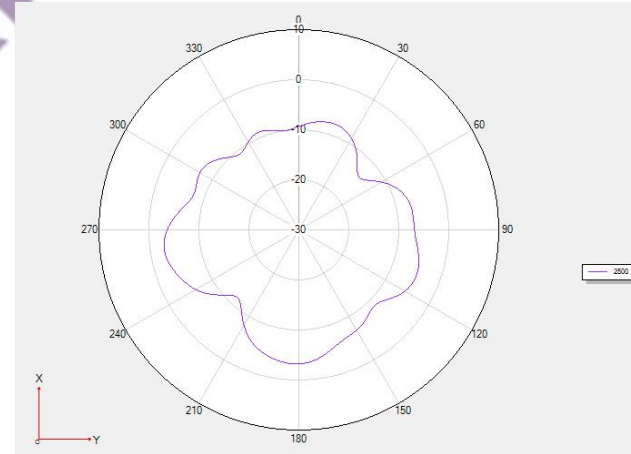
3D directional diagram



E1 PHI=0



E2 PHI=90

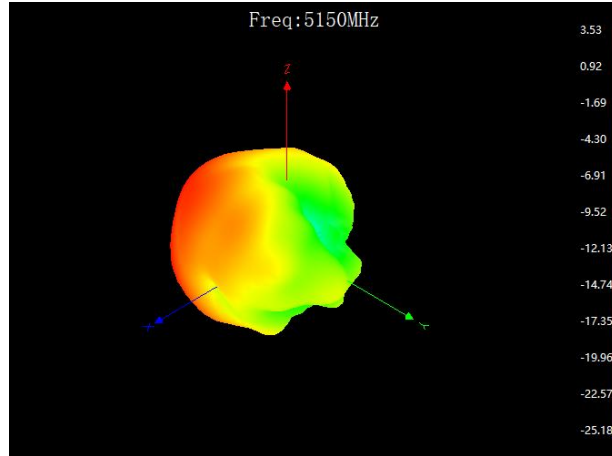


H THETA=90

ANT2-2500MHz

2、Passive report

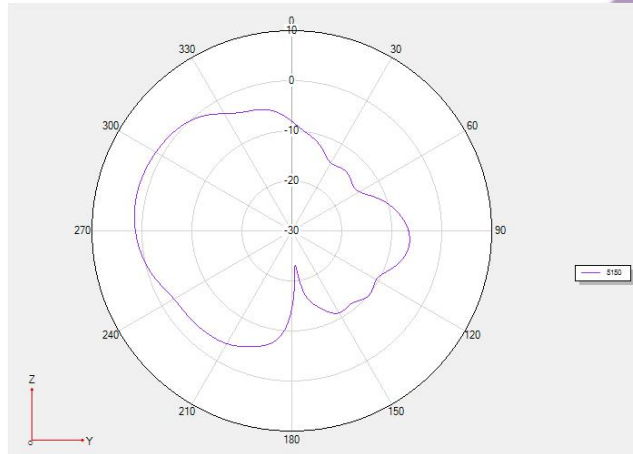
2.4 antenna pattern



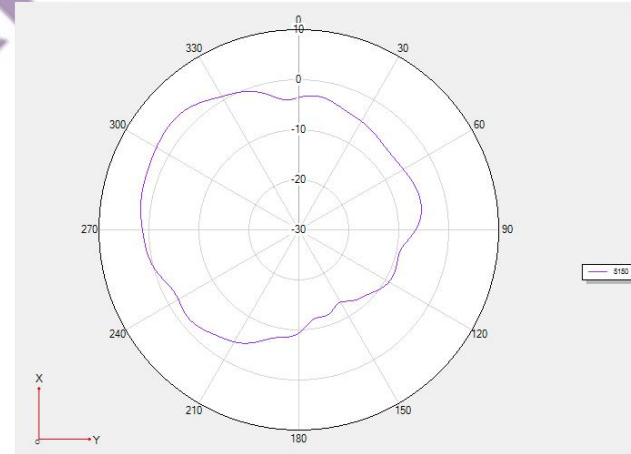
3D directional diagram



E1 PHI=0



E2 PHI=90

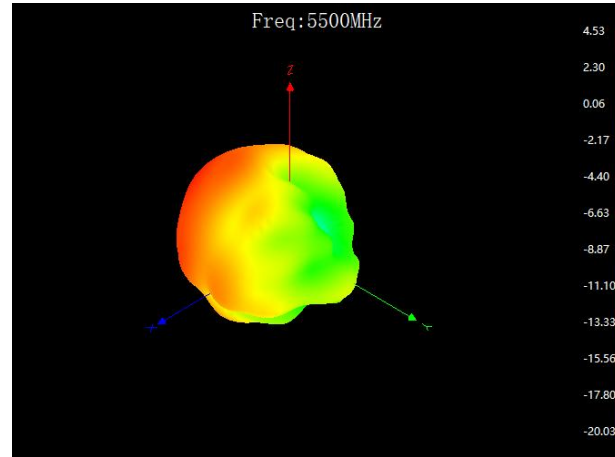


H THETA=90

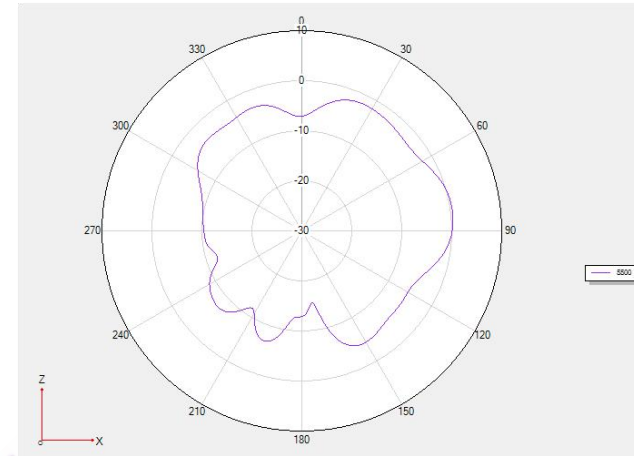
ANT2-5150MHz

2、Passive report

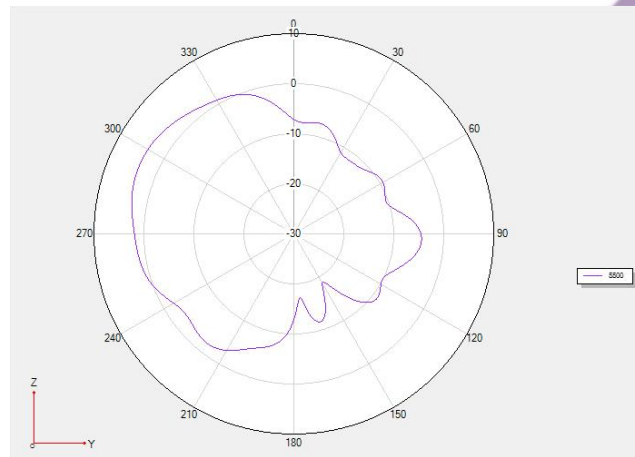
2.4 antenna pattern



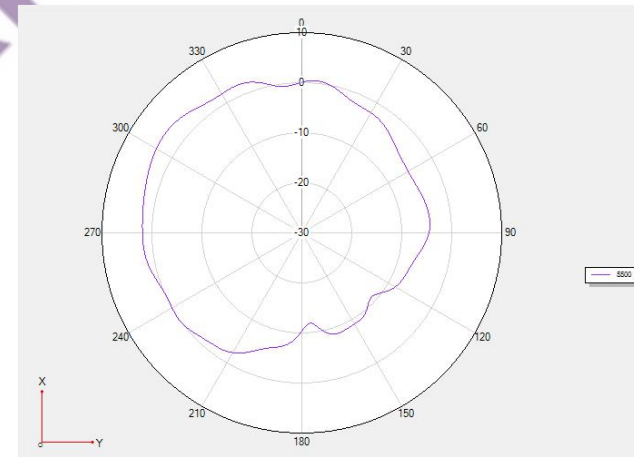
3D directional diagram



E1 PHI=0



E2 PHI=90

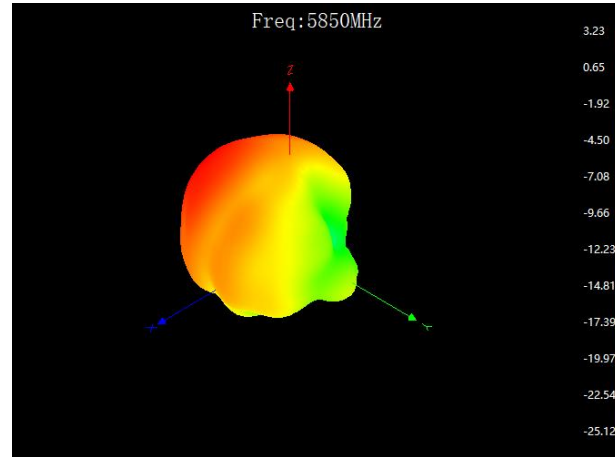


H THETA=90

ANT2-5500MHz

2、Passive report

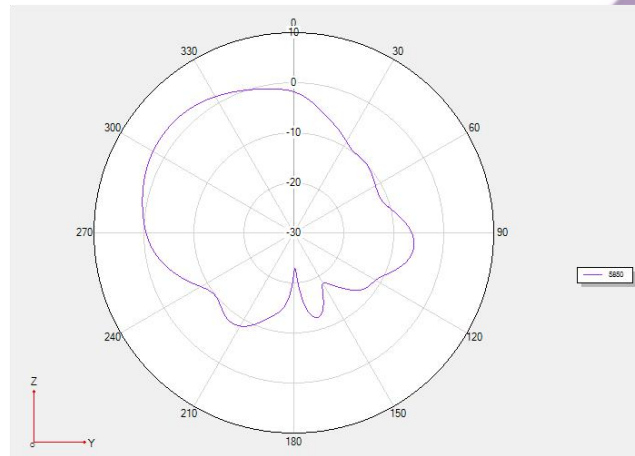
2.4 antenna pattern



3D directional diagram



E1 PHI=0



E2 PHI=90



H THETA=90

ANT2-5850MHz