Shenzhen Anwei Wireless Technology Co., Ltd

SPECIFICATION

Customer	Enabot（FuZhi）	Specs	EBO-X-BT Antenna
Part Number	WAN3216F245C04	Frequency Band	2400～2500MHz
Color	Balck	Edition	REV:A
Salesperson	JingHui LV	Design	Zhong Zhi Hui
Structure	Qin Yun Lin	Confirm	Song
Date	2023/02/09	Signing Date	
Customer confirmation:			
Join hands to create the future			

CATALOGUE

1、Product specification

The report mainly provides parameter test of EBO-X-BT Chip antenna performance.

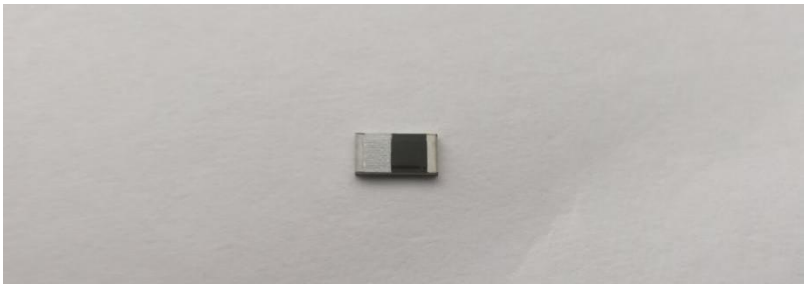
Silk screen model	Frequency+Range	Impendence	Max Gain	Return Loss
WAN3216F245C04	2400～2500MHz	50Ω	-16.75dBi	-6.5 (Max) dB

2、Electrical performance

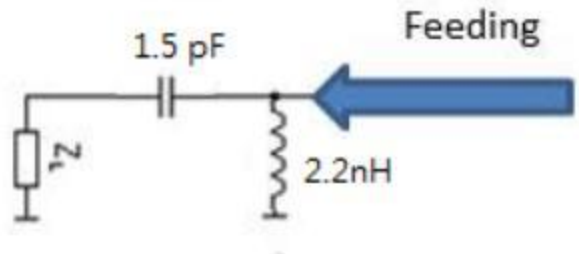
2.1 Specifications and standards

EBO-X-BT Patch antenna operates at 2500MHZ, and resonance occurs at this frequency band.

2.2Product Photograph



2.3Antenna matching circuit

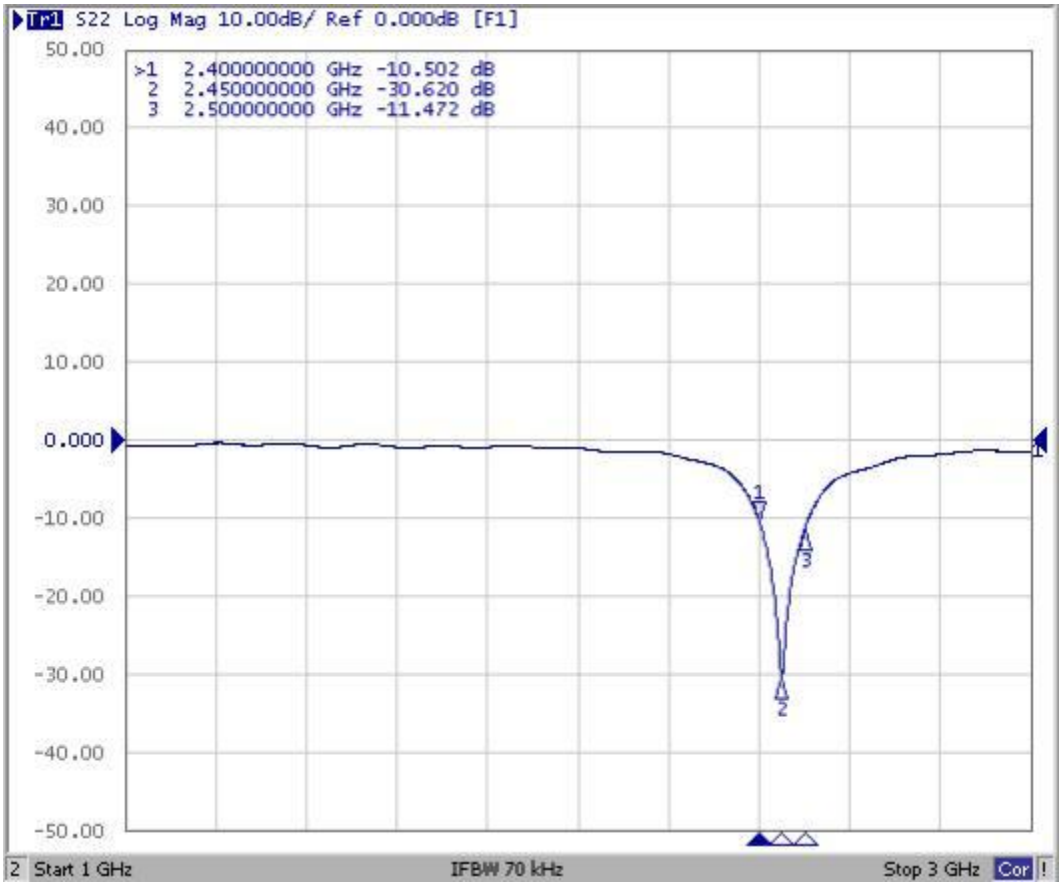


Antenna structure: Patch

3、Test of passive parameters

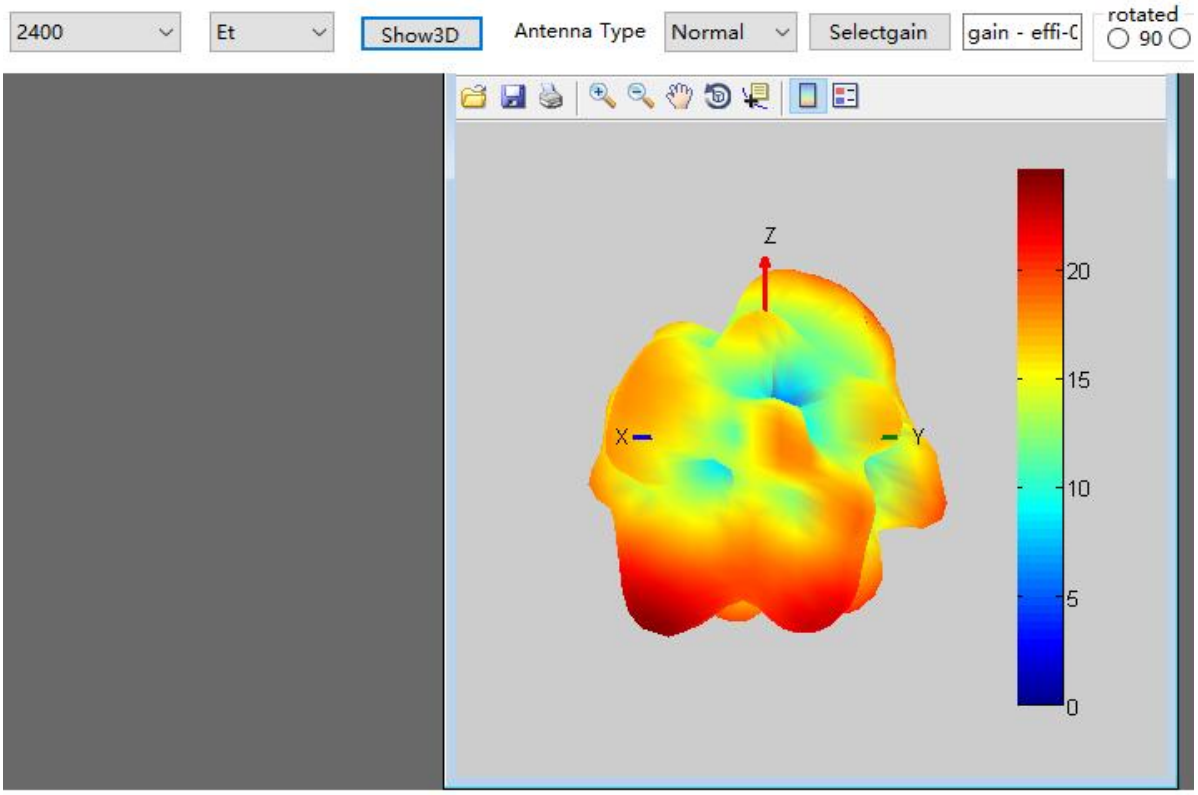
3.1Test result

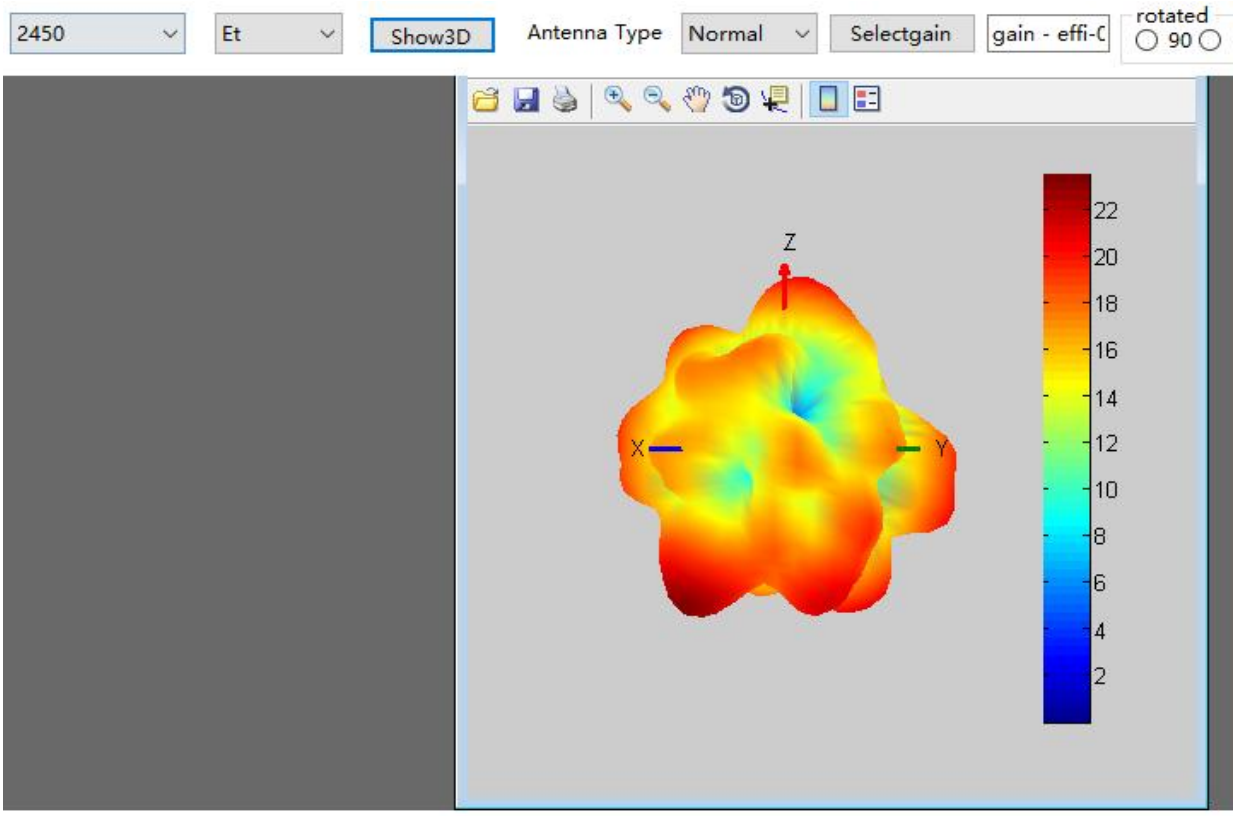
The following are antenna passive parameter data:

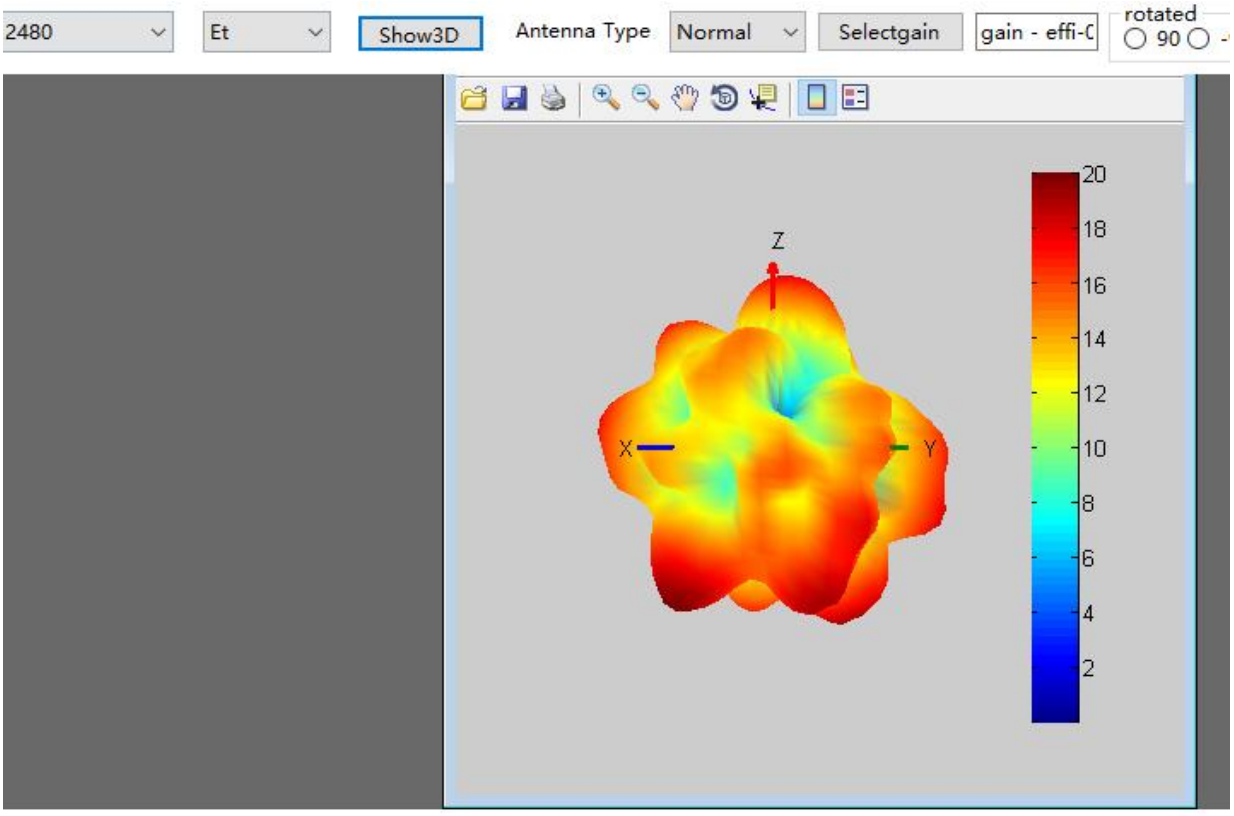


Assembly Test Efficiency and gain

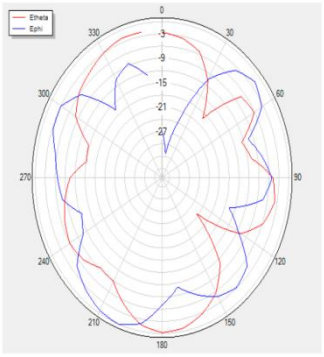
Gain&Efficiency		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-16.75	0.35
2410	-17.91	0.29
2420	-17.33	0.34
2430	-17.34	0.35
2440	-17.94	0.33
2450	-18.5	0.32
2460	-18.64	0.34
2470	-18.07	0.42
2480	-19.32	0.34
2490	-18.7	0.42
2500	-18.39	0.41




2450
Et
Show3D
Antenna Type
Normal
Selectgain
gain - effi-C
rotated
90
Z
X
Y
22
20
18
16
14
12
10
8
6
4
2


2480
Et
Show3D
Antenna Type
Normal
Selectgain
gain - effi-C
rotated
90
Z
X
Y
20
18
16
14
12
10
8
6
4
2

H Theta=90 freq=2400MHz



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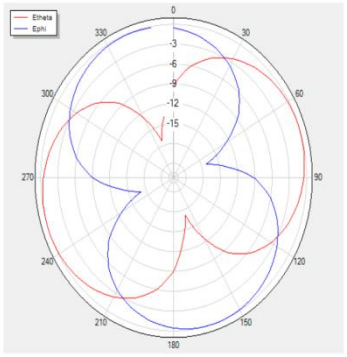
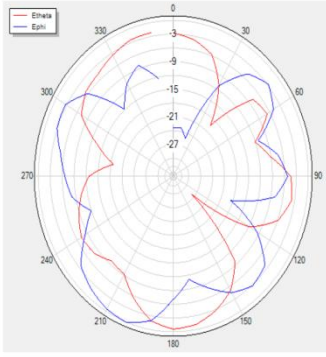


H Theta=90 freq=2410MHz



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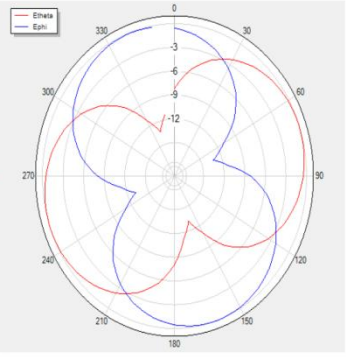

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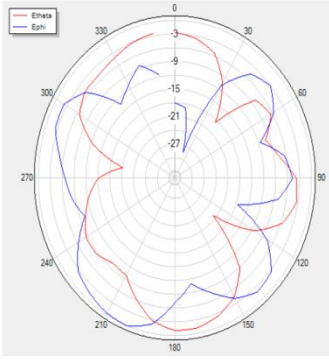

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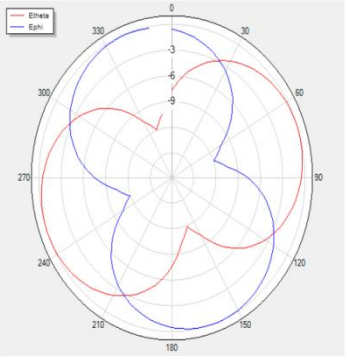

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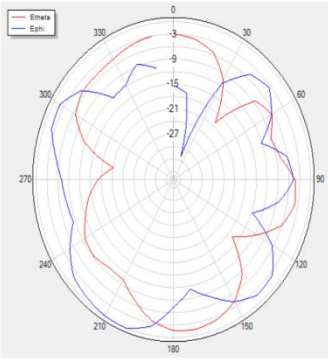

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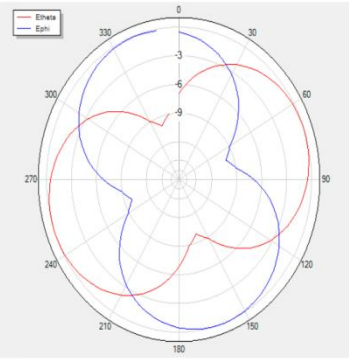

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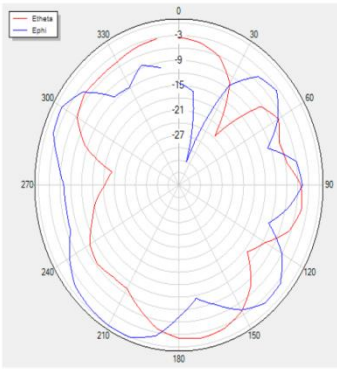

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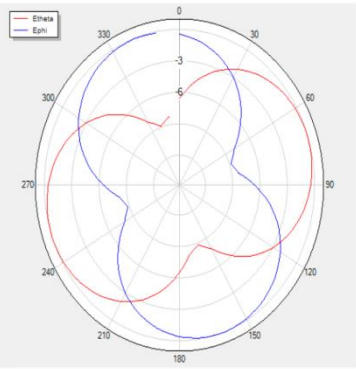

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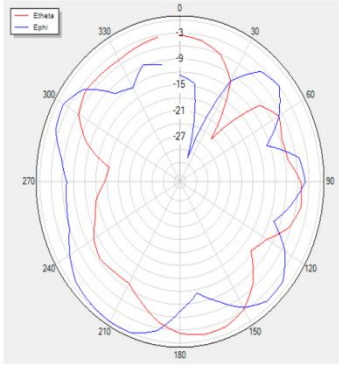

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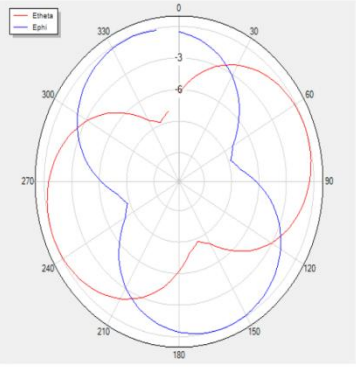

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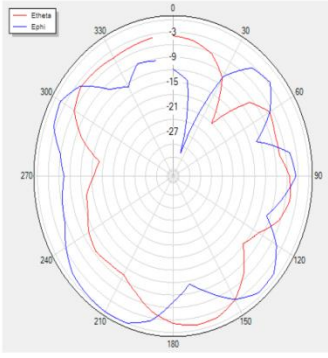

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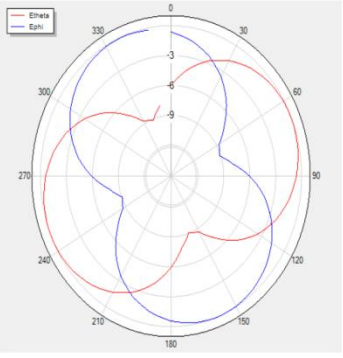
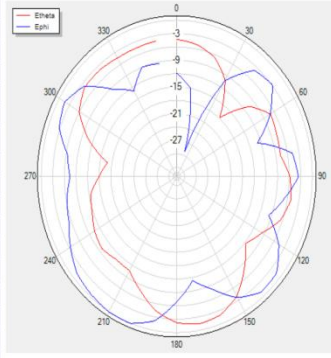


H Theta=90 freq=2470MHz



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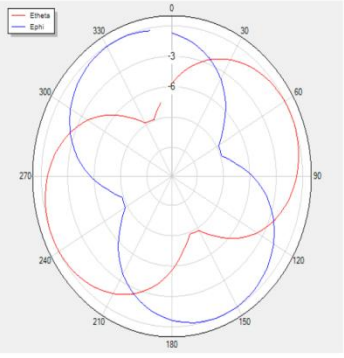

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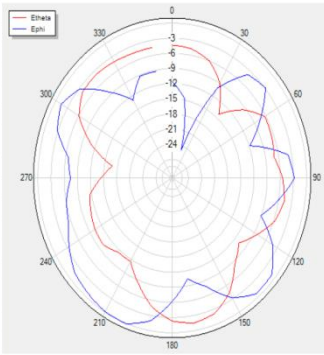

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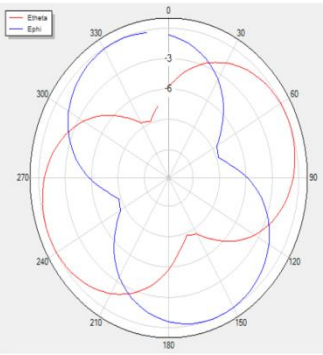

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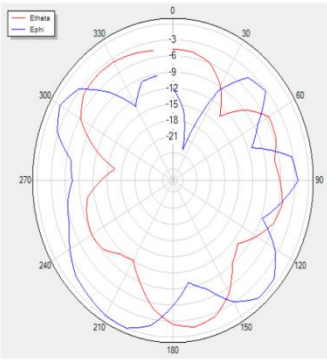

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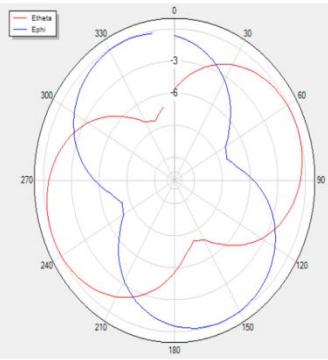

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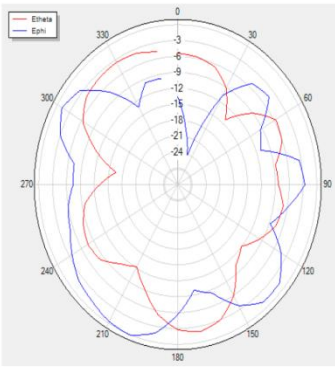

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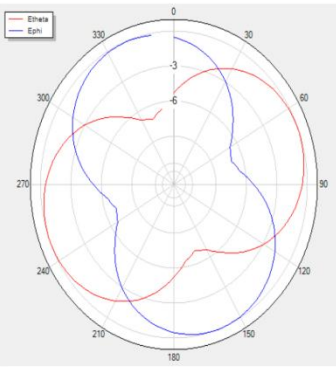

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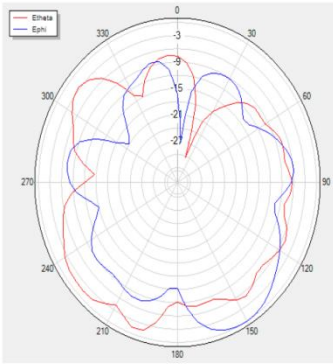

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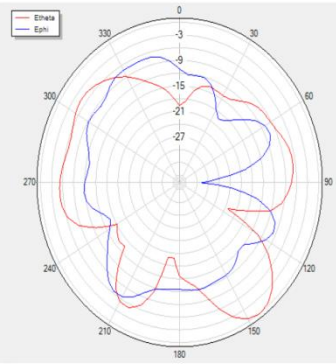

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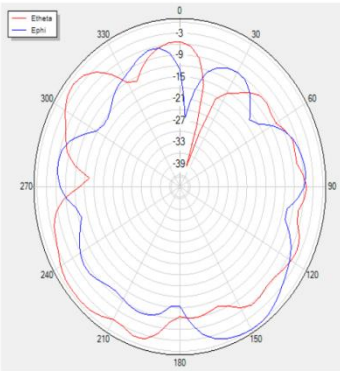

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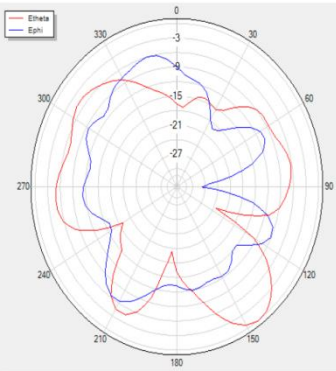

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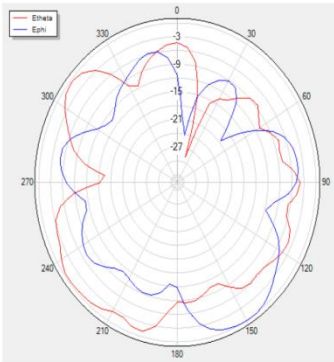
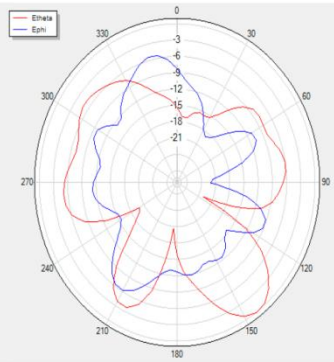


V Phi=0 freq=2420MHz



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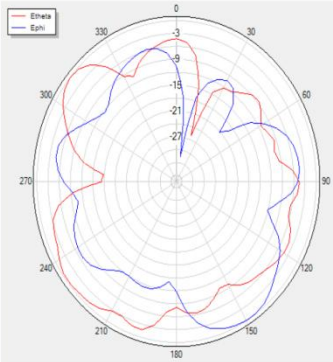

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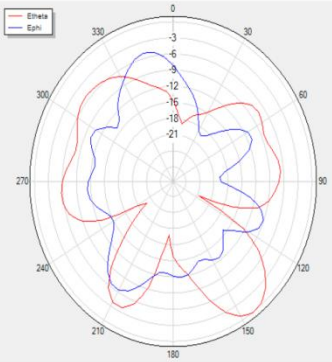

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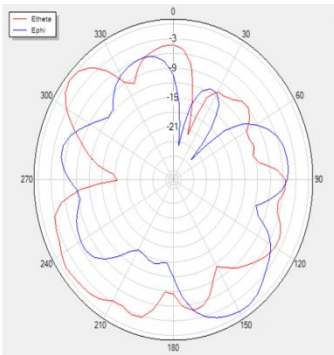
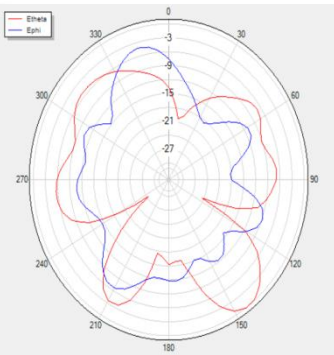


V Phi=0 freq=2440MHz



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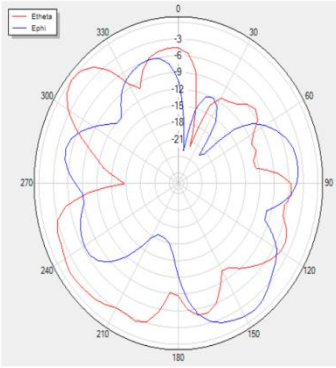

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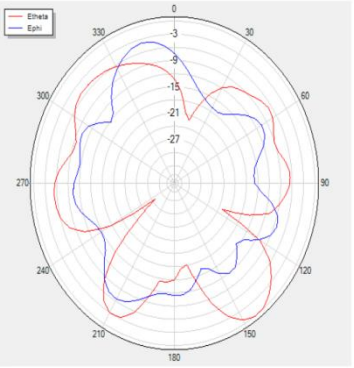

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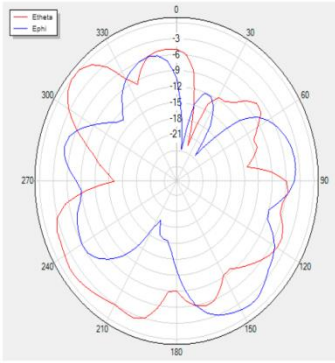

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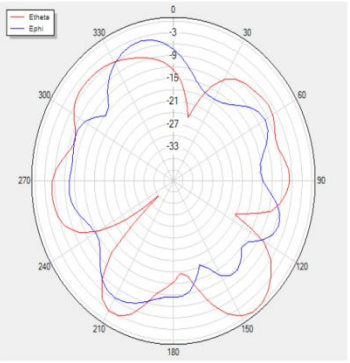
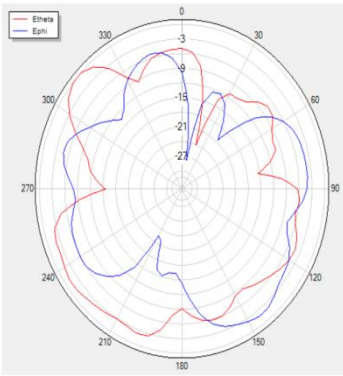
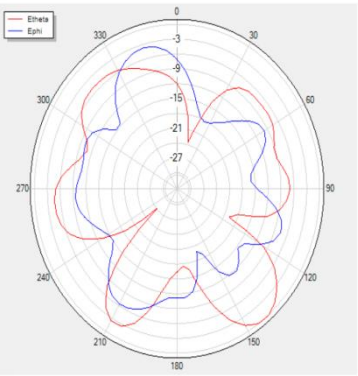


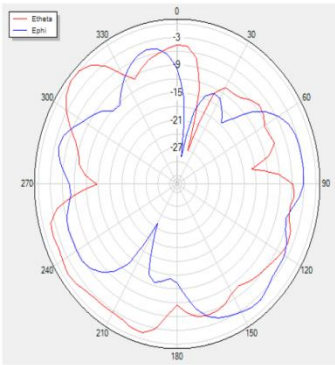
V Phi=90 freq=2470MHz



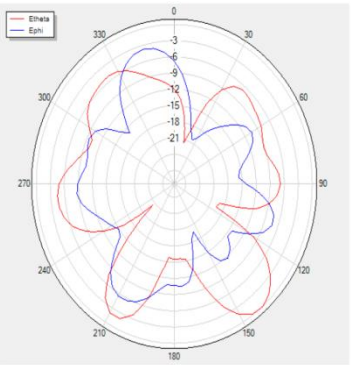
V Phi=0 freq=2470MHz



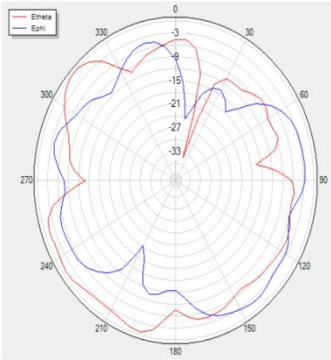
V Phi=90 freq=2480MHz



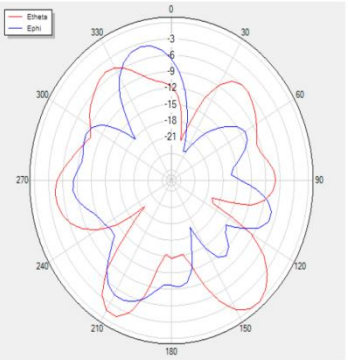
V Phi=0 freq=2480MHz



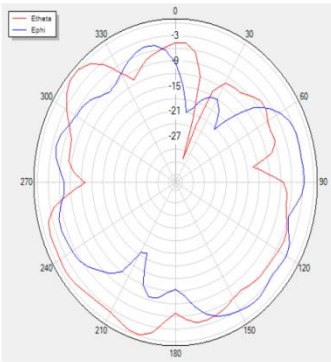
V Phi=90 freq=2490MHz



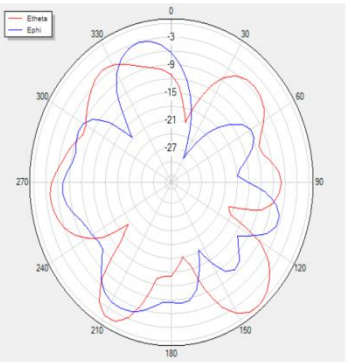
V Phi=0 freq=2490MHz



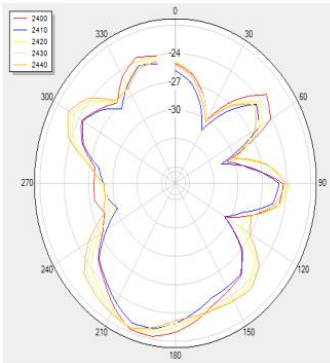
V Phi=90 freq=2500MHz



V Phi=0 freq=2500MHz



H Theta=90



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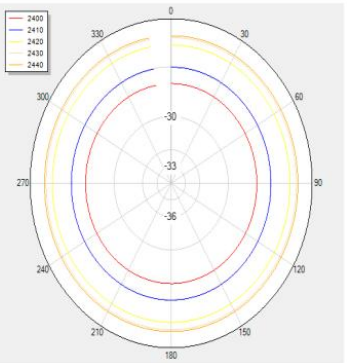

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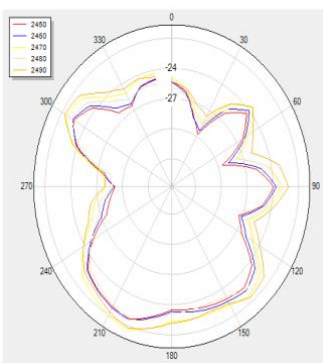
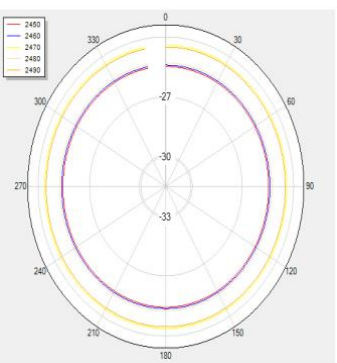
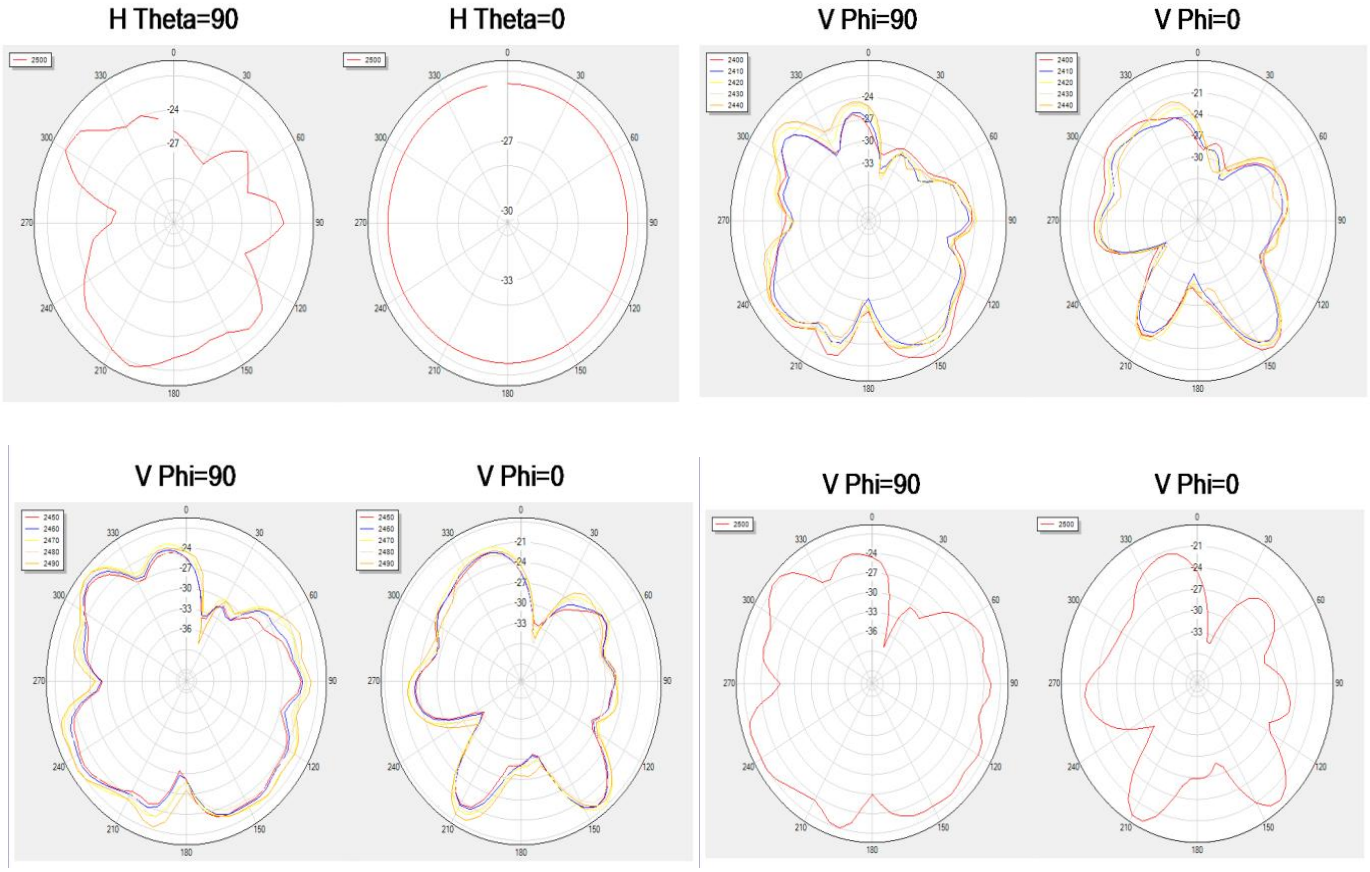


H Theta=0



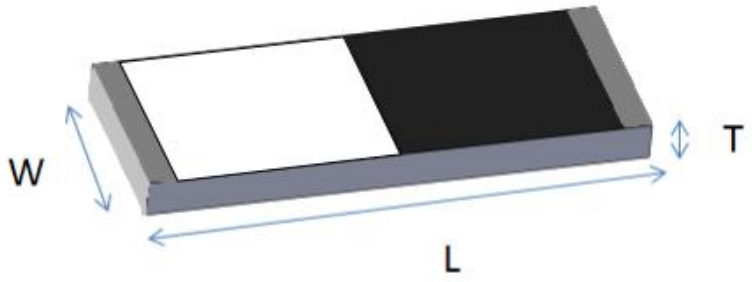


Assembly position

5.Recommendations and conclusions

This report is based on the antenna electrical performance measured by the product provided by the customer. Please check it carefully.

6. Antenna size



	Dimension (mm)
L	3.23 ± 0.20
W	1.66 ± 0.20
T	0.45 ± 0.20