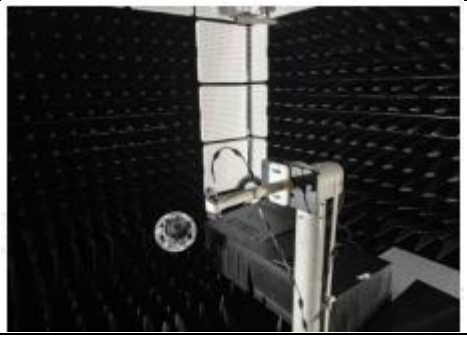
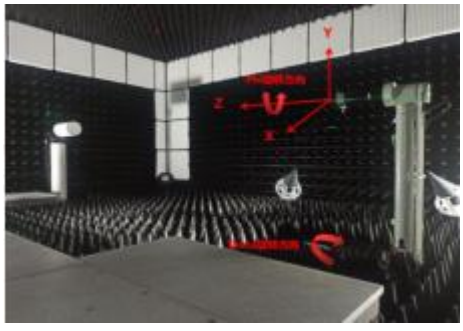
Testresult			
Testitem	OTA performance testing	Laboratory	Wireless RF Laboratory
Nameofsample	K3CD	Testedby	Lin pengzhang、Zhou peng
Methid for testing	Q/BYDQ-A1901.6039-2021	Testingdate	2025-03-28
Testingequipment	Vector Network Analyzer (30004276) Single probe OTA testing system (40001882)	Judgment	Do not make a judgment
Results description:			

test environment	24.8℃、50%RH				
test equipment	Vector Network Analyzer	Mode	ZNB8	Calibration validity period	2025-12-19
	Single probe OTA testing system		ERIT-R-OTA-FF		/

Test Results

Sample Number	Frequency(MHz)	Gain(dBi)	direction diagram
1#	2400.00	4.00	See next page
	2450.00	1.23	See next page
	2483.50	1.38	See next page
2#	2400.00	4.80	See next page
	2450.00	2.25	See next page
	2483.50	2.60	See next page
3#	2400.00	4.33	See next page
	2450.00	1.61	See next page
	2483.50	1.78	See next page

Layout and Sample Diagram

Test layout diagram (close-up)	Test layout diagram (distant view)
	
Sample photo	Darkroom coordinate system
	

Attachment: EQEL EQEL-3642700L_ Intelligent Access Controller OTA Performance Test Results for On-board Bluetooth Antenna_J-20250307337

1. 2D radiation direction diagram

1、 1# Sample

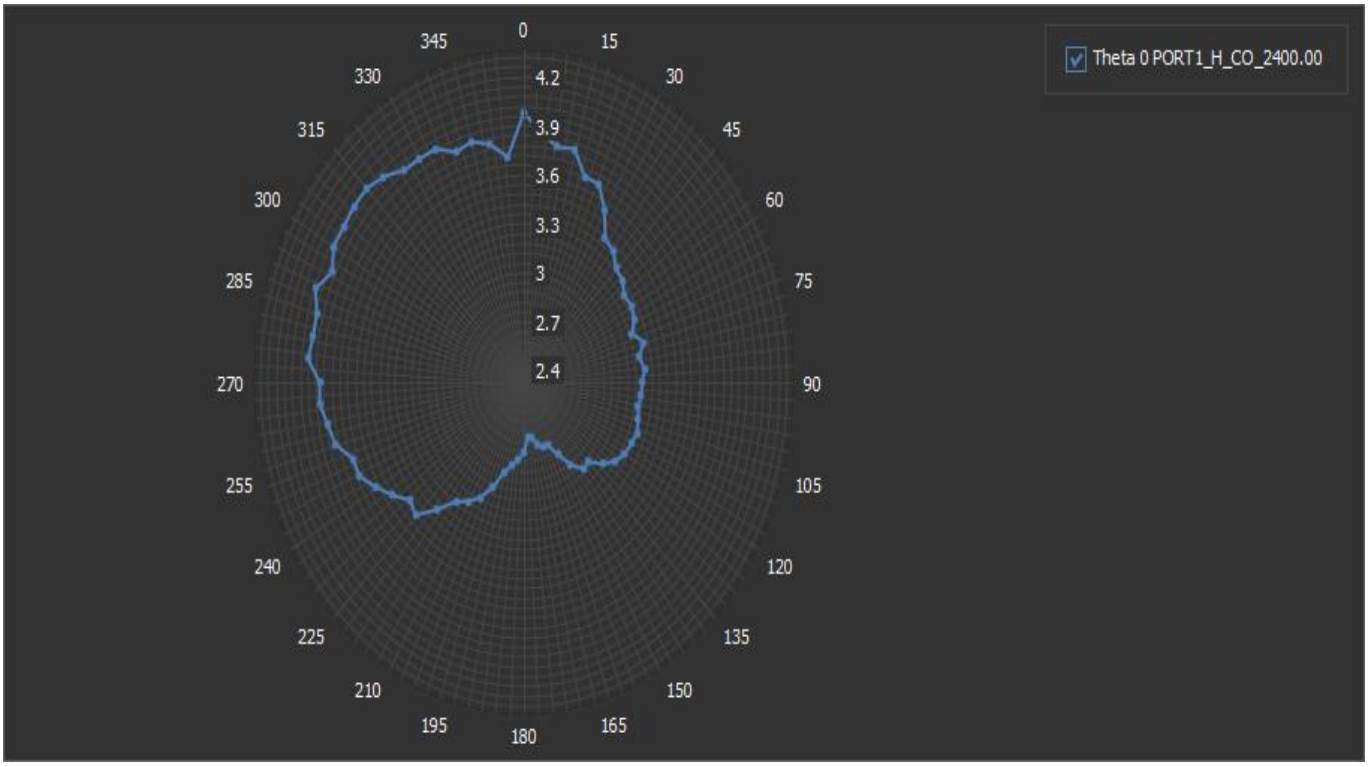


Figure 1: Sample 1 (2D radiation direction diagram, 2400.00MHz, Theta=0 °)

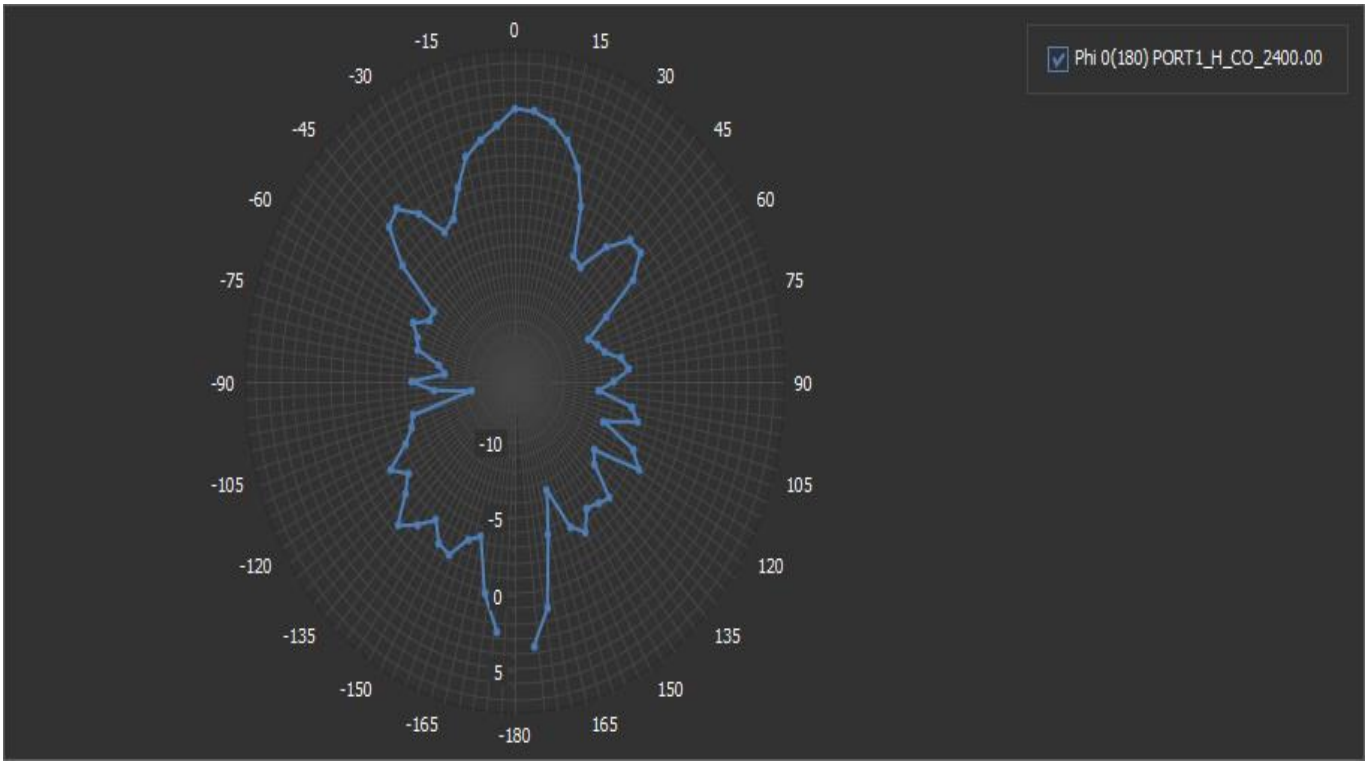


Figure 2: Sample 1 (2D radiation direction diagram, 2400.00MHz, Phi=0 °/180 °)

unit:dBm

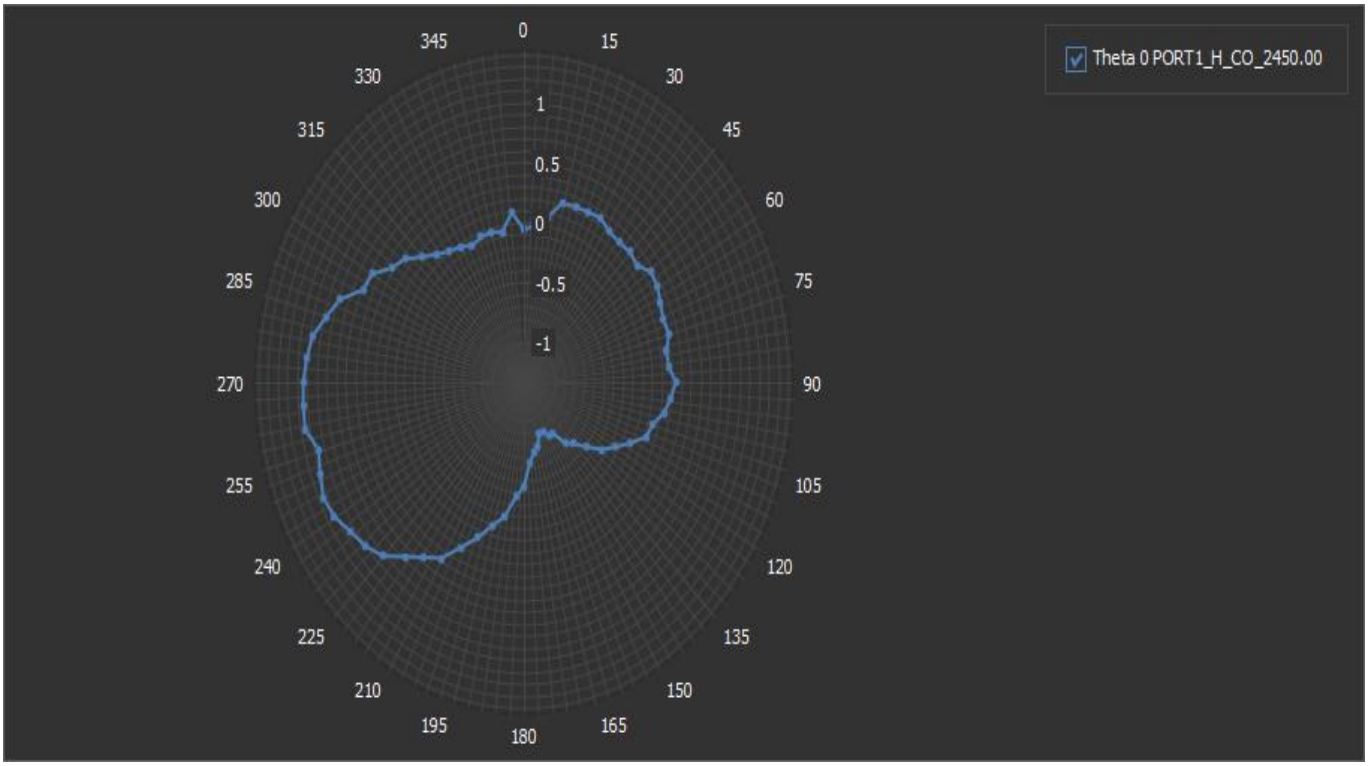


Figure 3: Sample 1 (2D radiation direction diagram, 2450.00MHz, Theta=0 °)

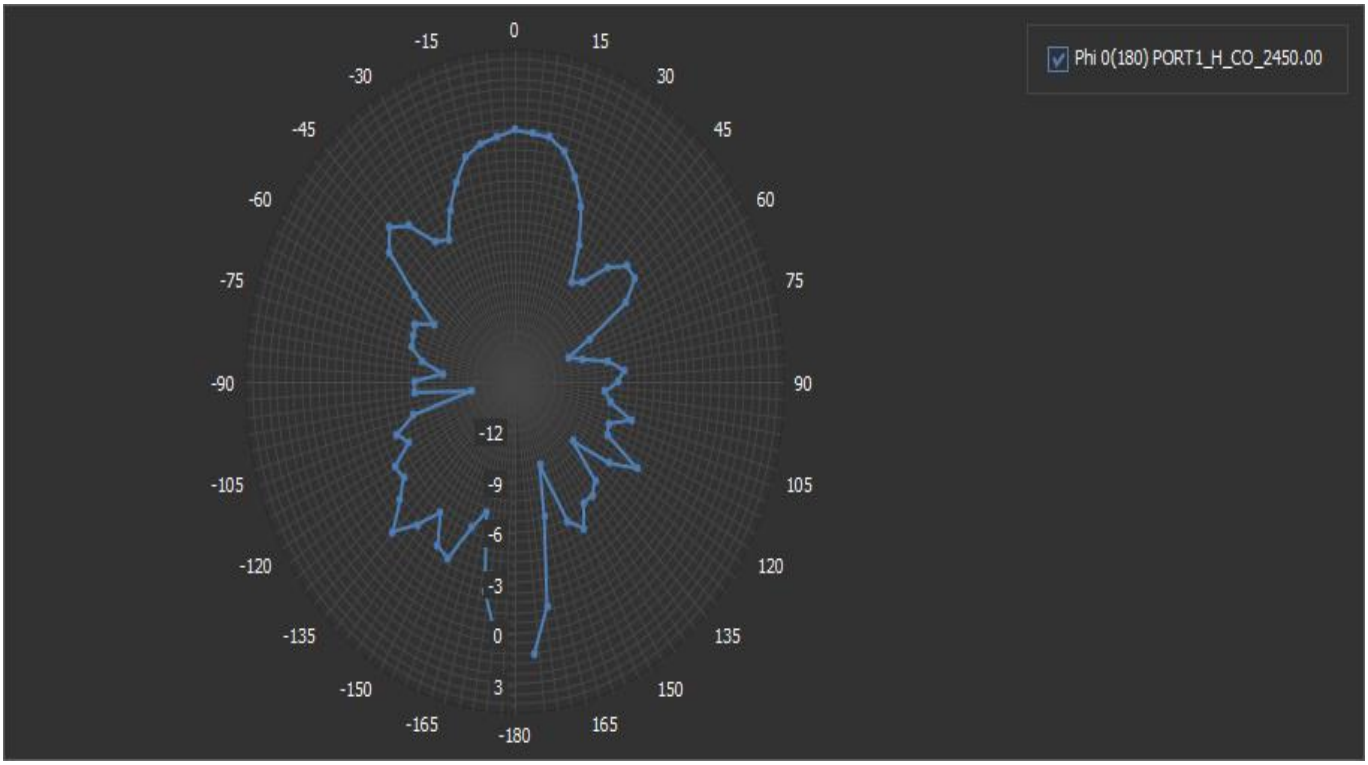


Figure 4: Sample 1 (2D radiation direction diagram, 2450.00MHz, Phi=0 °/180 °)

unit:dBm

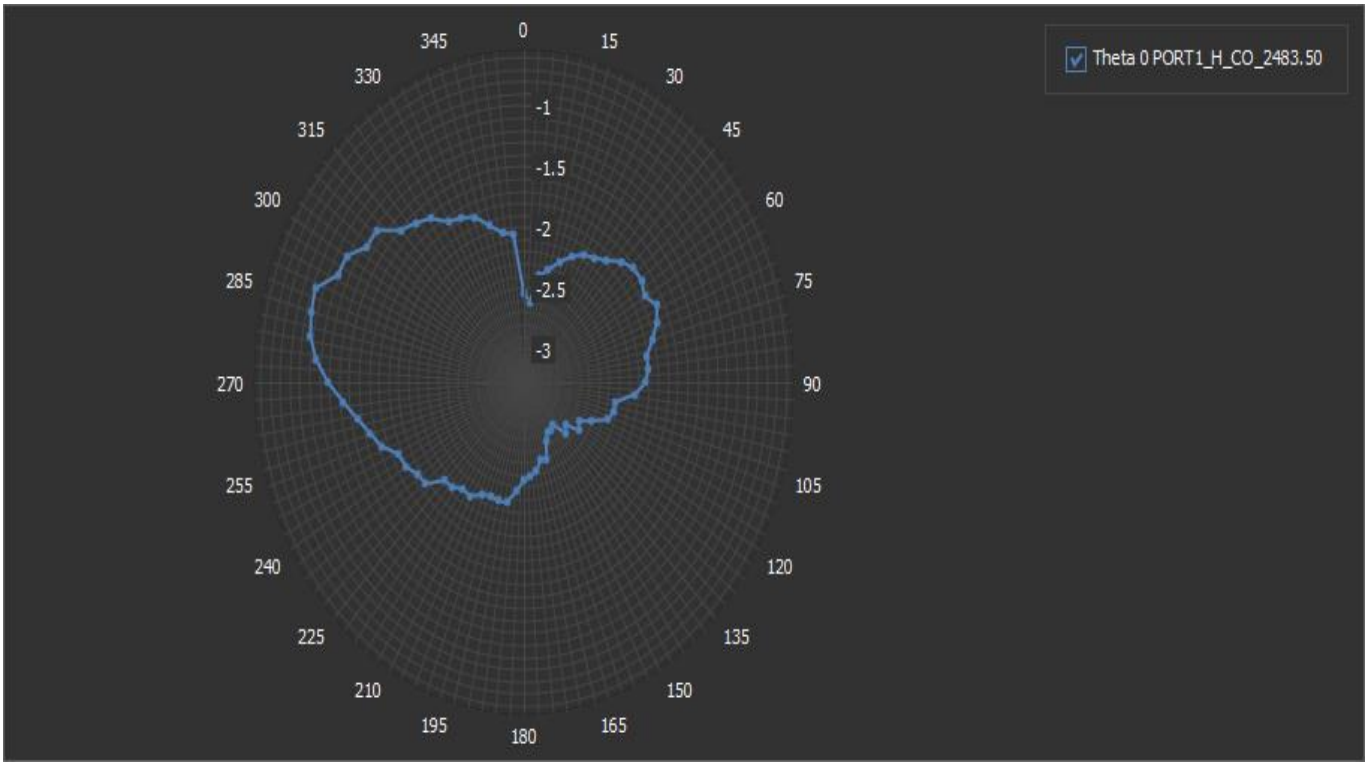


Figure 5: Sample 1 (2D radiation direction diagram, 2483.50MHz, Theta=0 °)

Figure 6: Sample 1 (2D radiation direction diagram, 2483.50MHz, Phi=0 °/180 °)

unit:dBm

2、 2# Sample

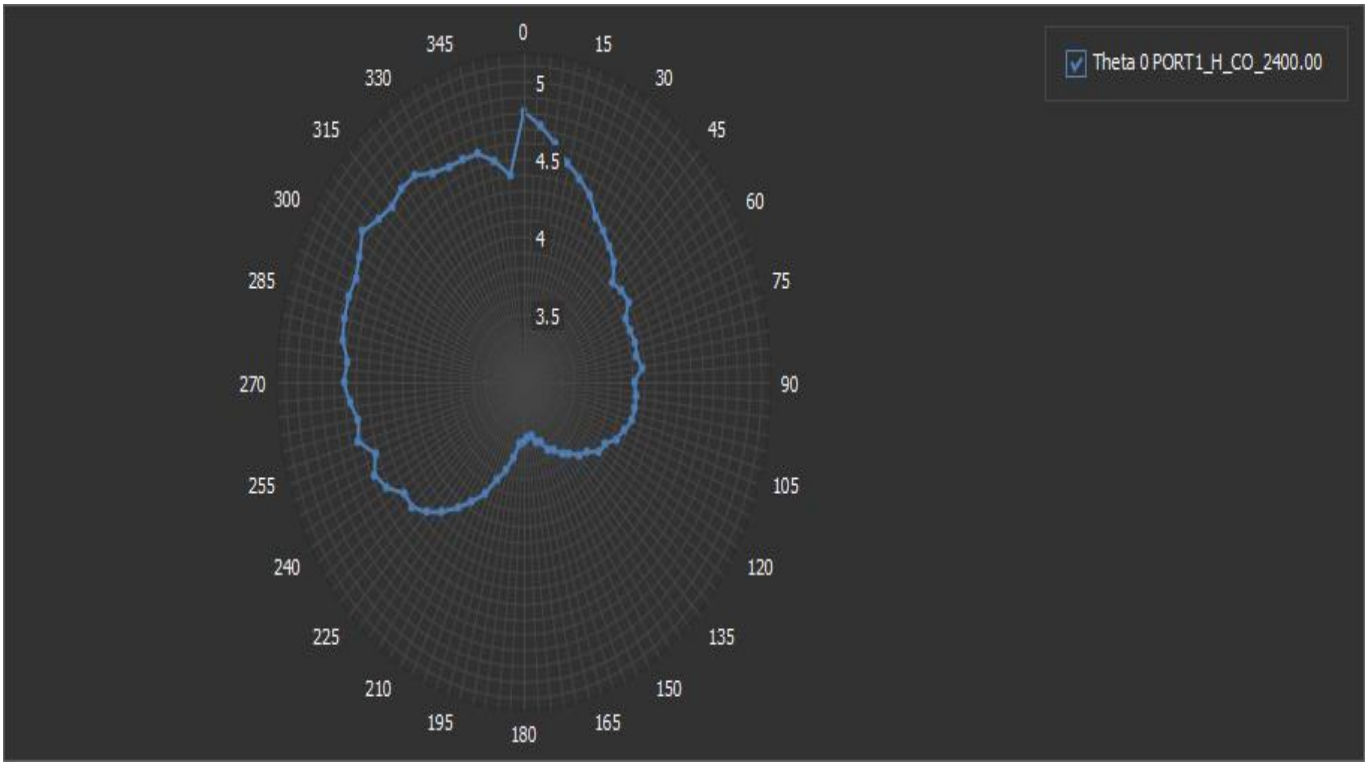


Figure 7: Sample 2# (2D radiation direction diagram, 2400.00MHz, Theta=0 °)

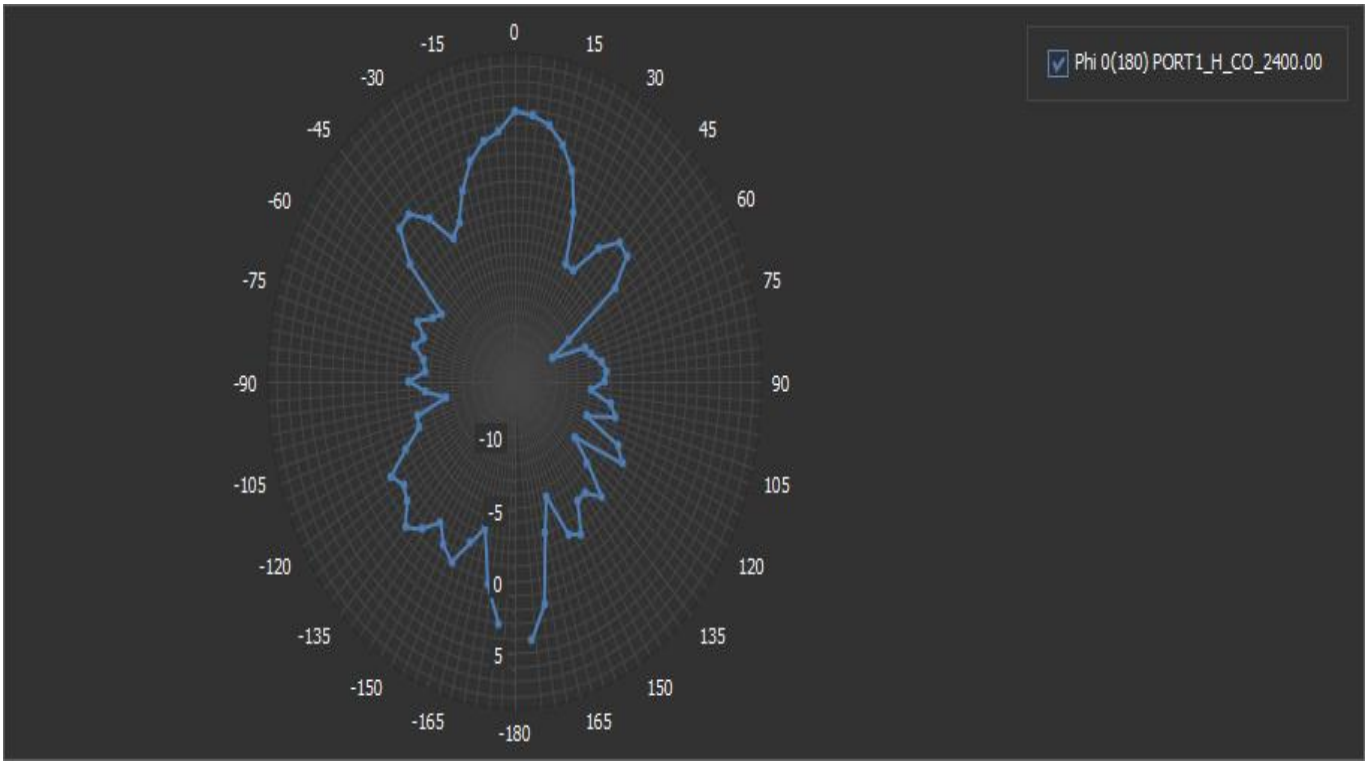


Figure 8: Sample 2# (2D radiation direction diagram, 2400.00MHz, Phi=0 °/180 °)

unit:dBm

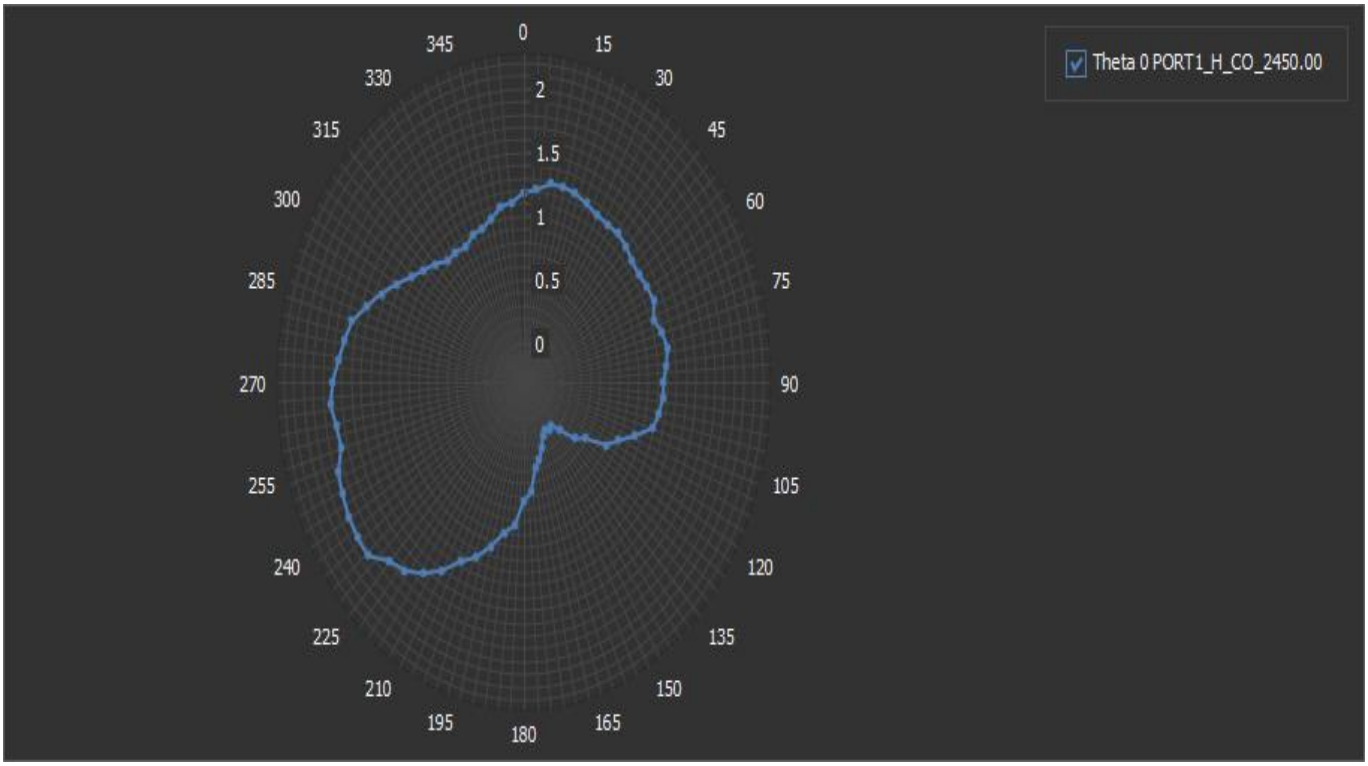


Figure 9: Sample 2# (2D radiation direction diagram, 2450.00MHz, Theta=0 °)

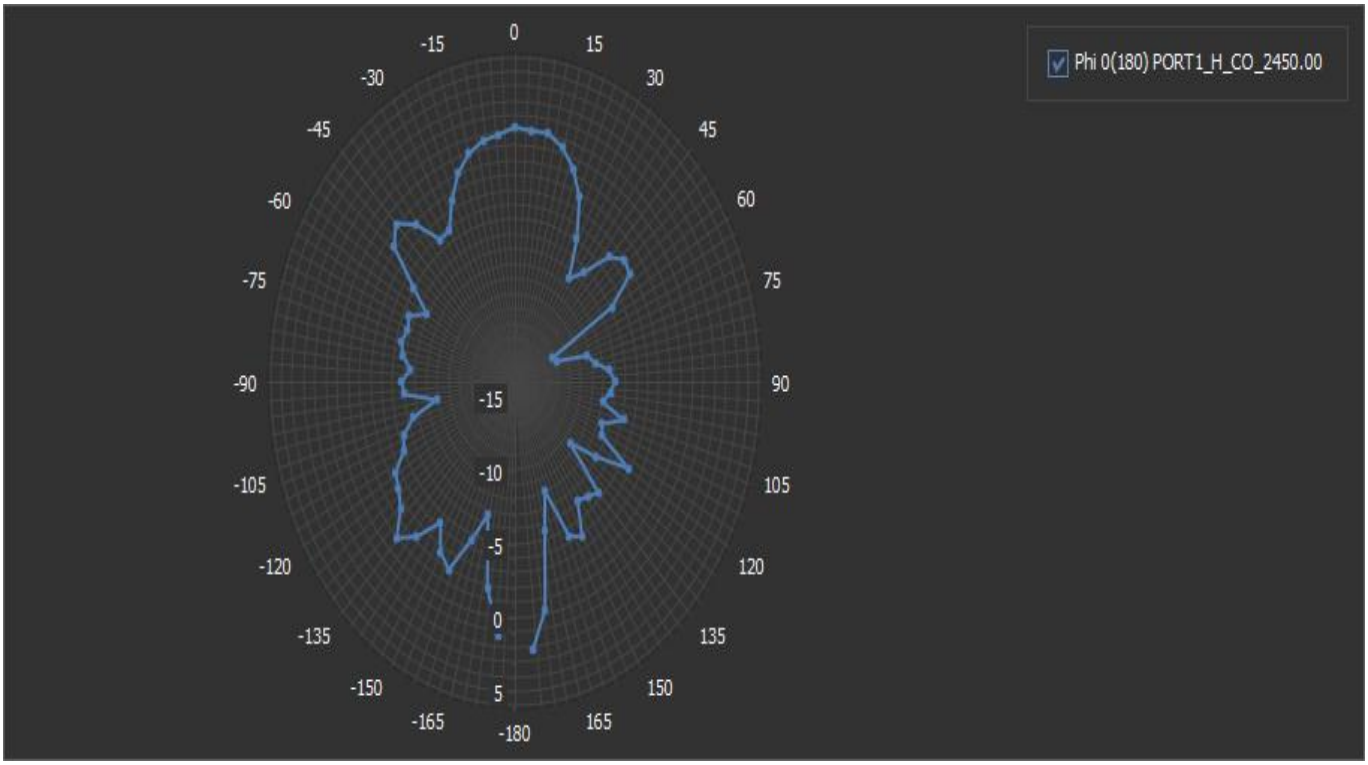


Figure 10: Sample 2# (2D radiation direction diagram, 2450.00MHz, Phi=0 °/180 °)

unit:dBm

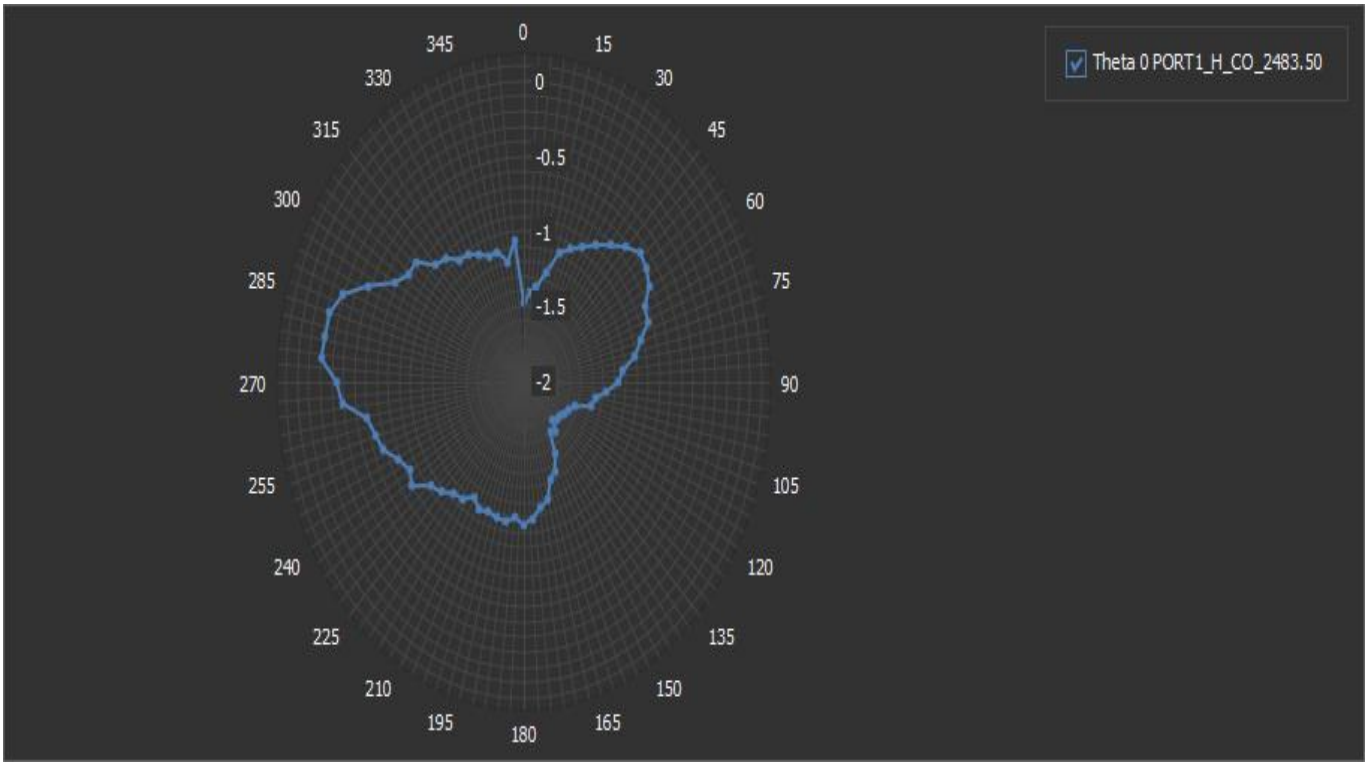


Figure 11: Sample 2# (2D radiation direction diagram, 2483.50MHz, Theta=0 °)

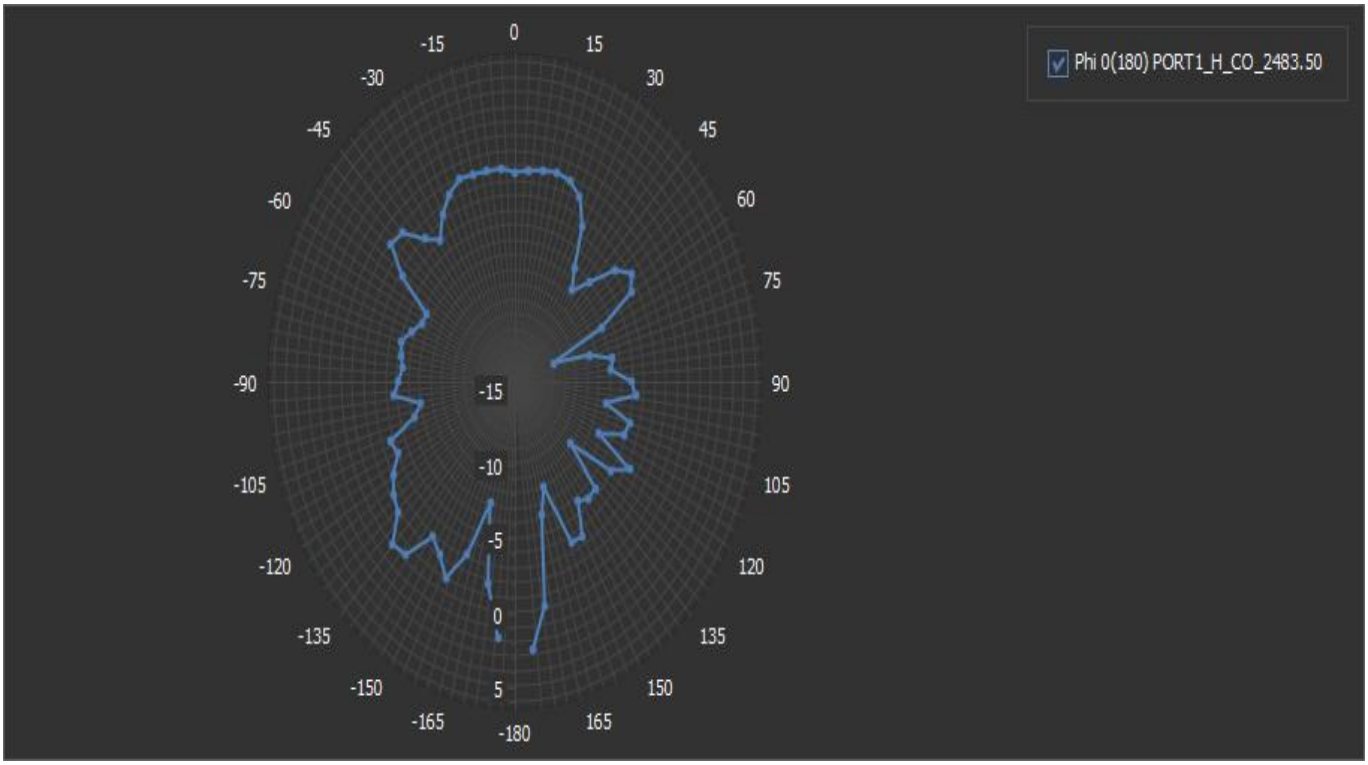


Figure 12: Sample 2# (2D radiation direction diagram, 2483.50MHz, Phi=0 °/180 °)

unit:dBm

3、 3# Sample

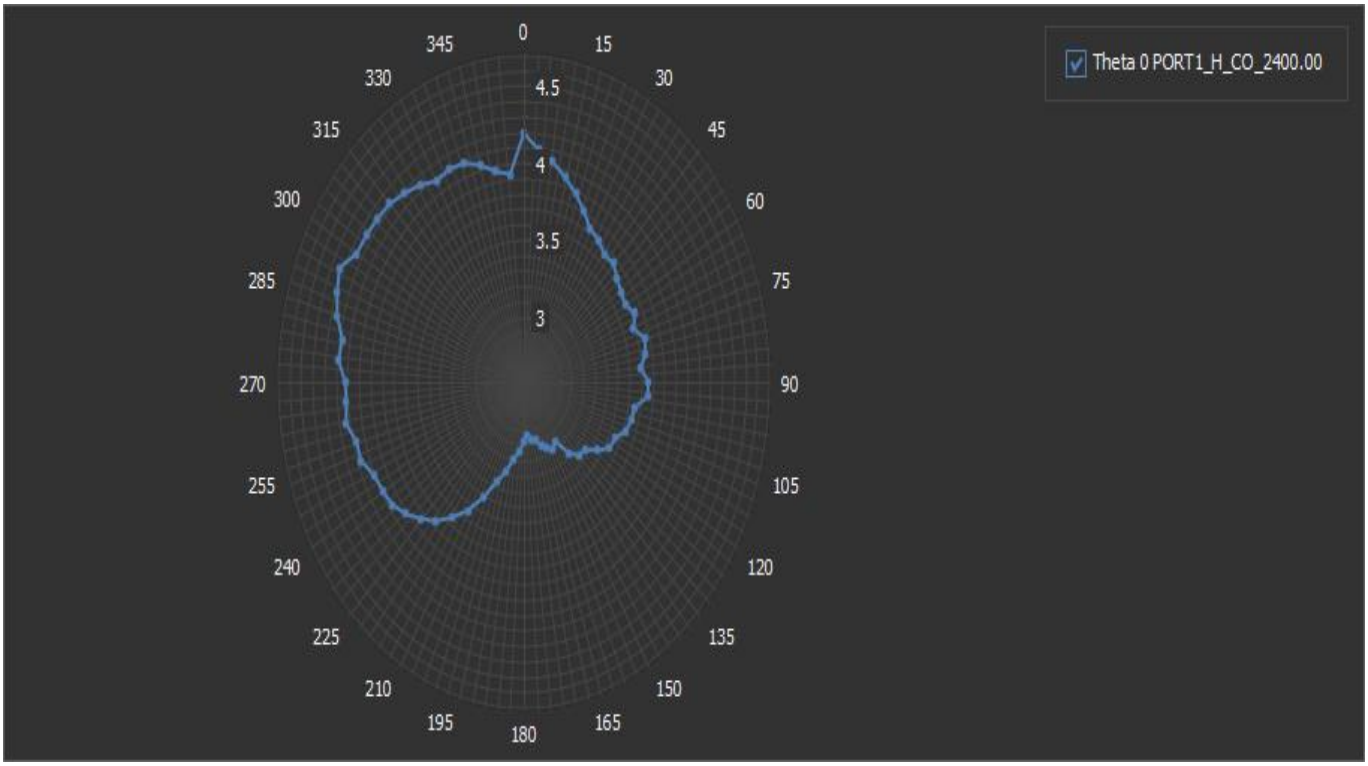


Figure 13: Sample 3# (2D radiation direction diagram, 2400.00MHz, Theta=0 °)

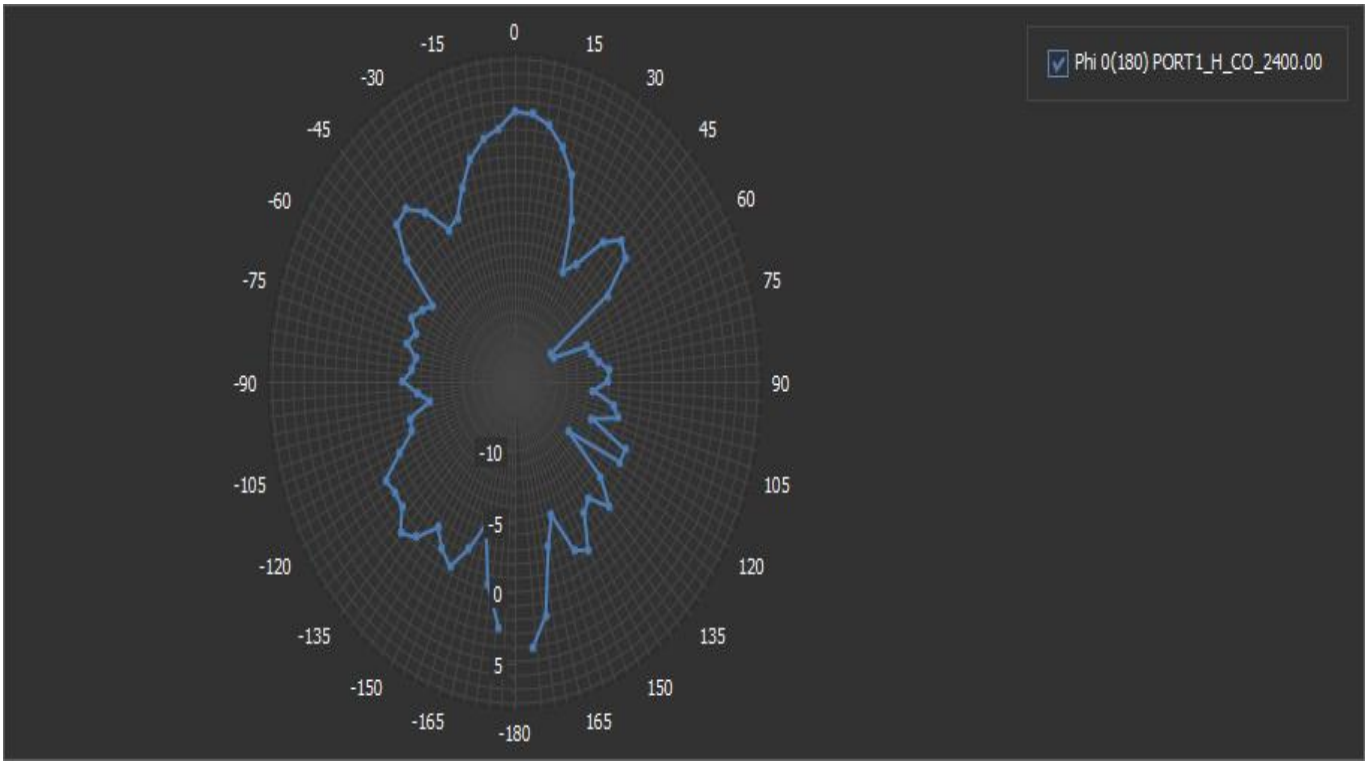


Figure 14: Sample 3# (2D radiation direction diagram, 2400.00MHz, Phi=0 °/180 °)

unit:dBm

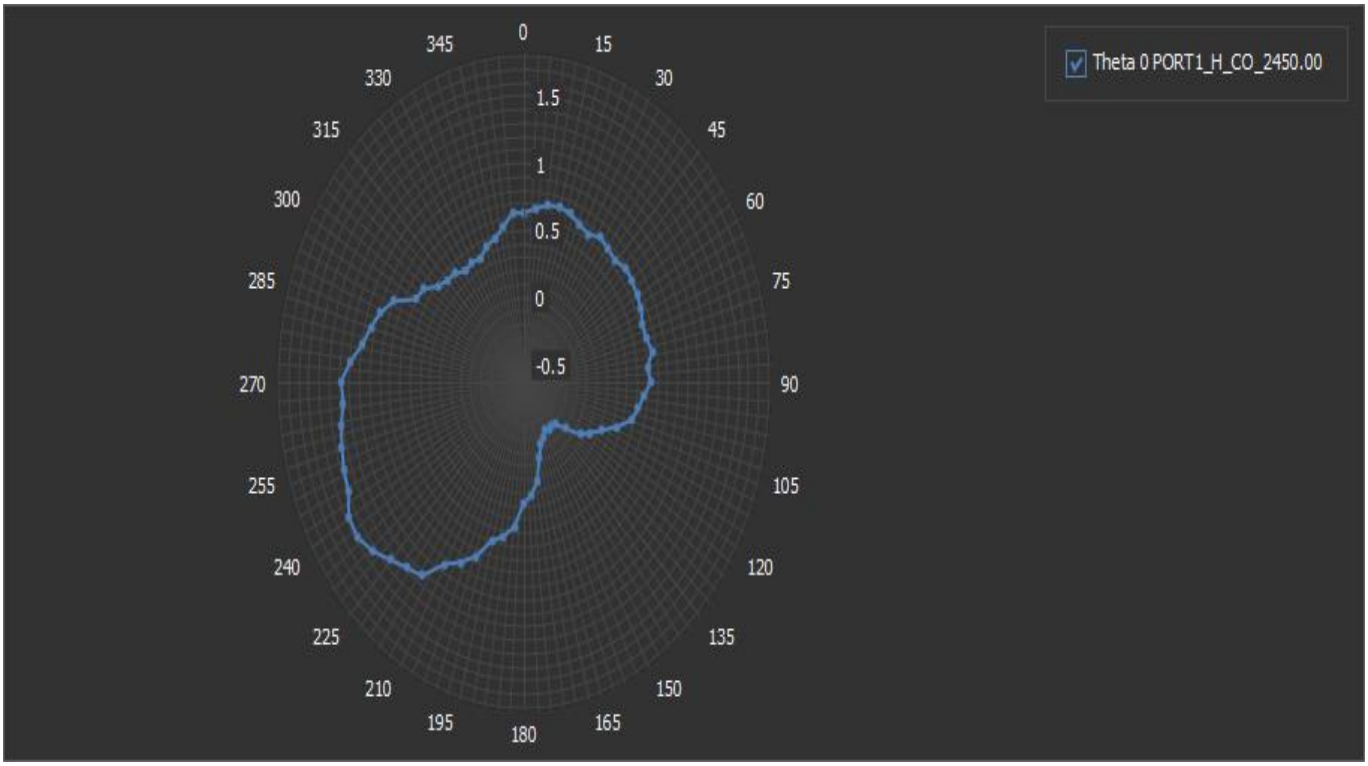


Figure 15: Sample 3# (2D radiation direction diagram, 2450.00MHz, Theta=0 °)

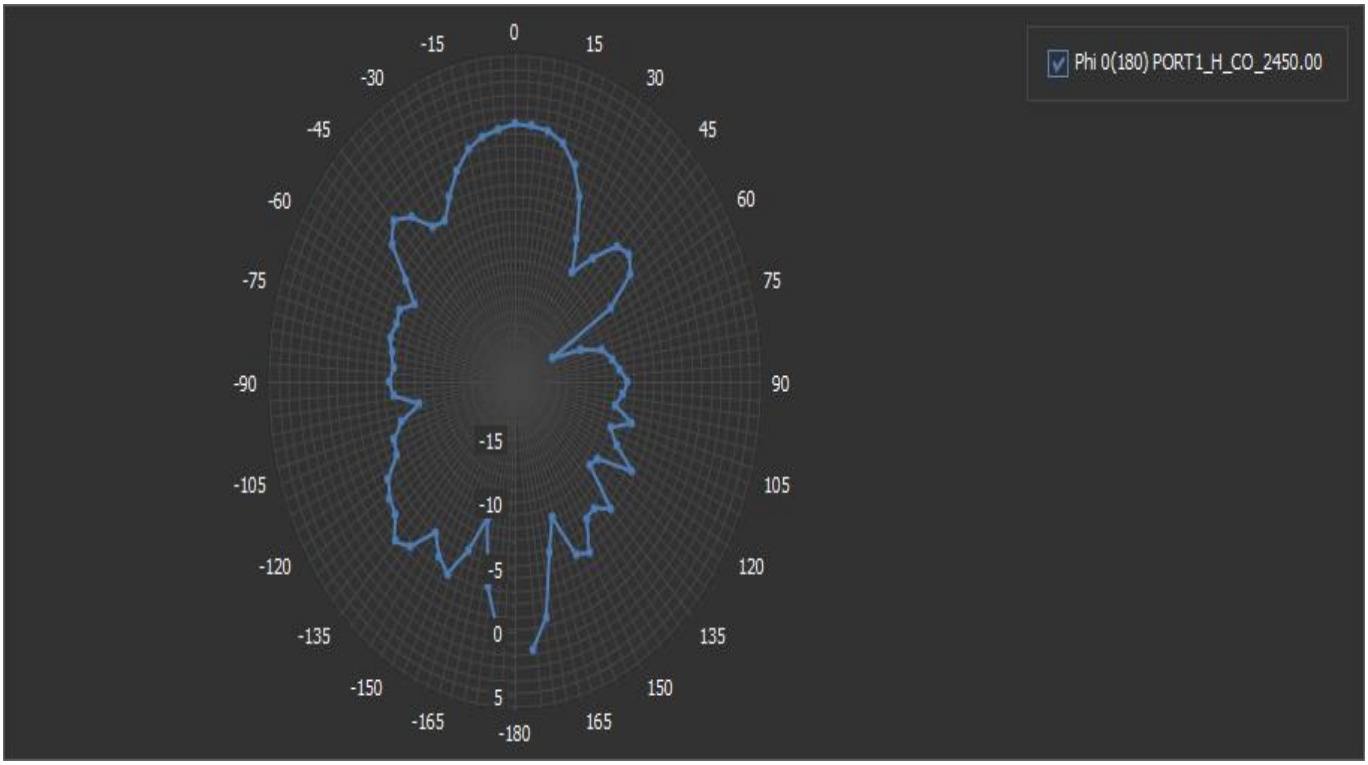


Figure 16: Sample 3# (2D radiation direction diagram, 2450.00MHz, Phi=0 °/180 °)

unit:dBm

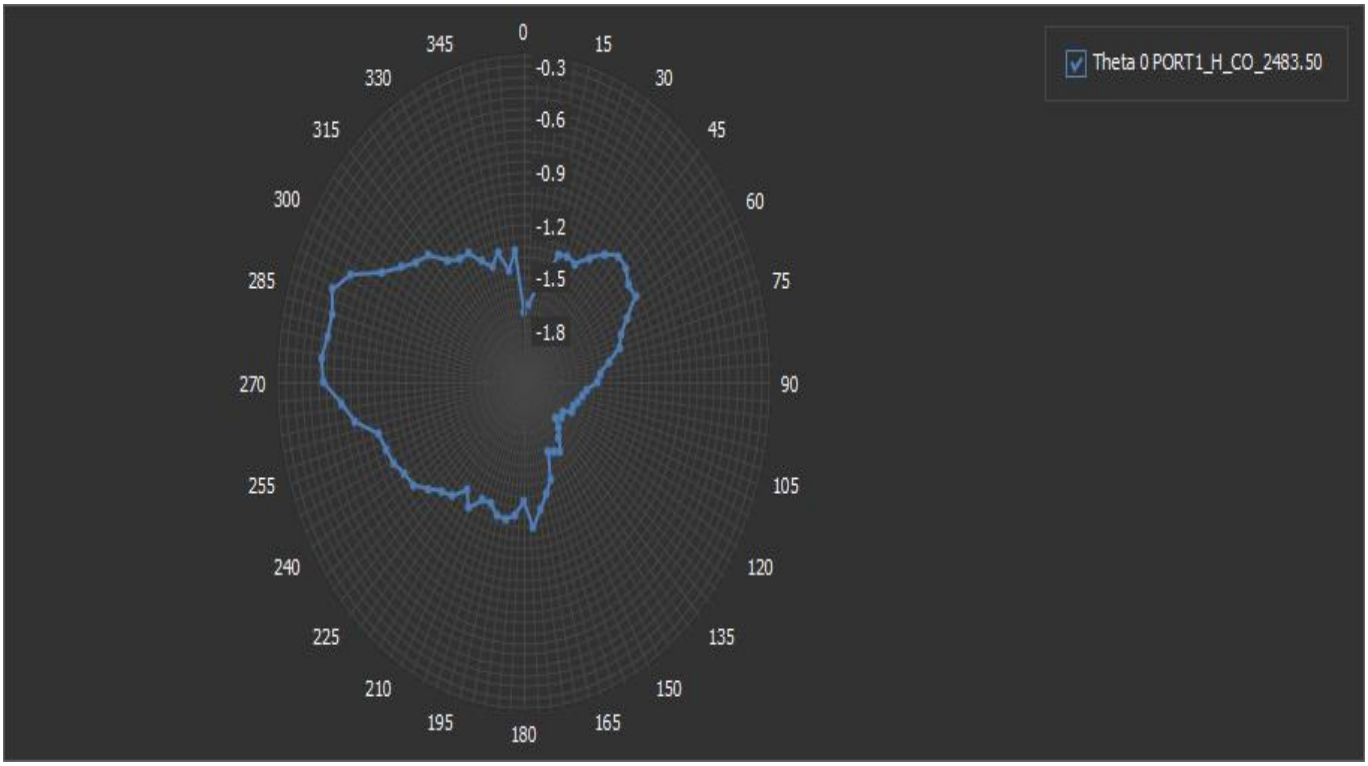


Figure 17: Sample 3# (2D radiation direction diagram, 2483.50MHz, Theta=0 °)

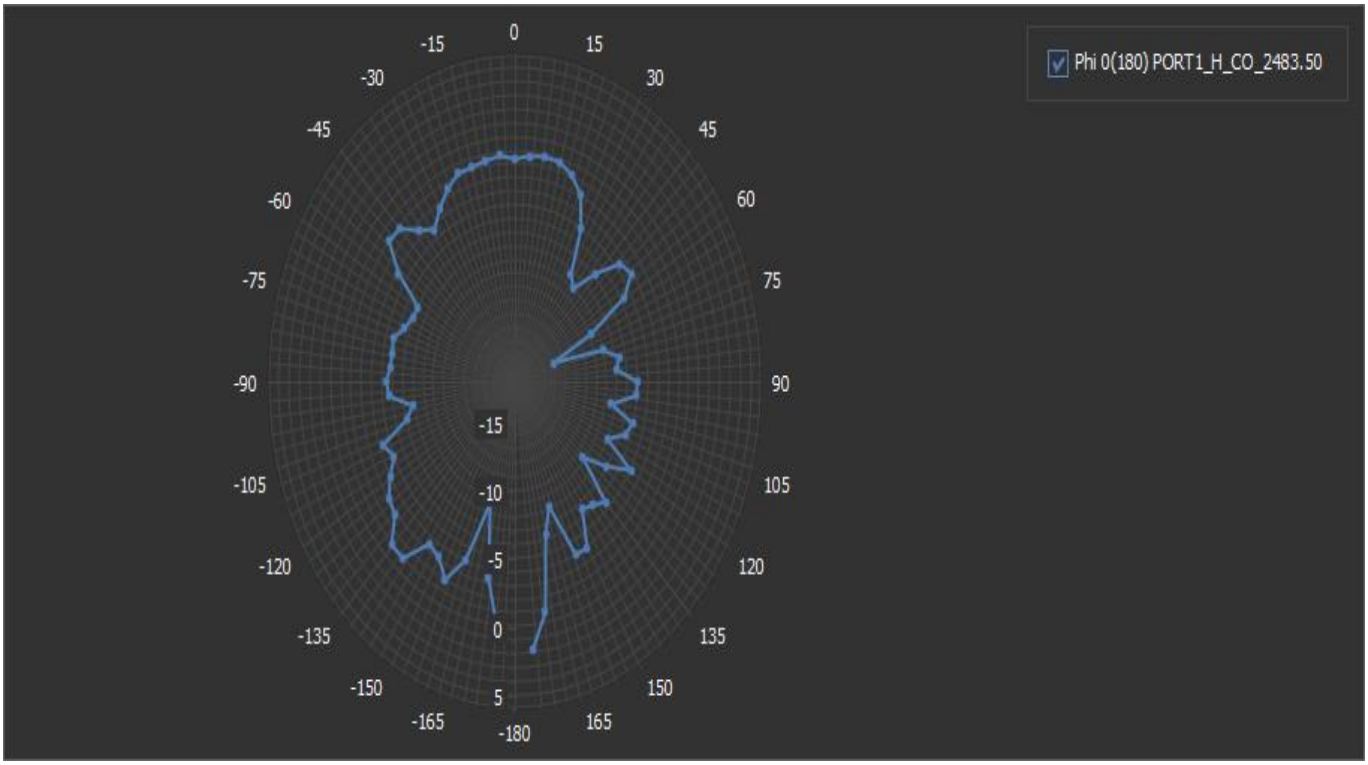


Figure 18: Sample 3# (2D radiation direction diagram, 2483.50MHz, Phi=0 °/180 °)

unit:dBm

2. 3D radiation direction diagram

1. 1# Sample

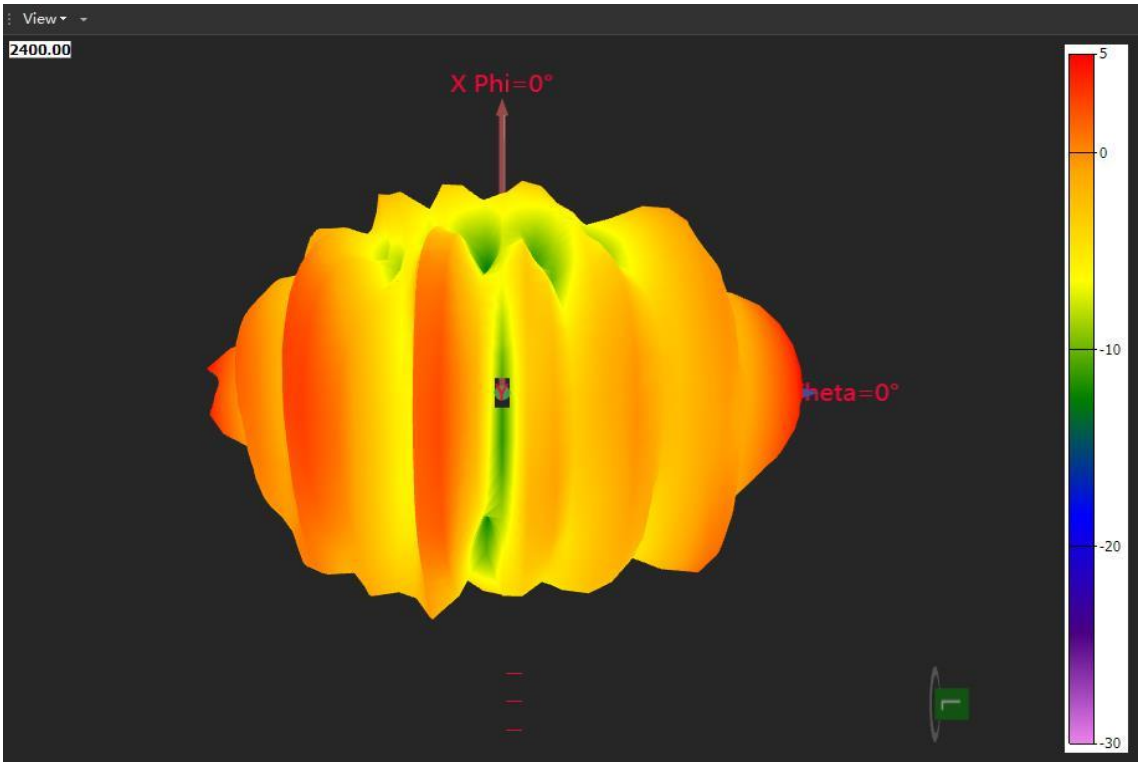


Figure 1: Sample 1 (3D radiation direction diagram, 2400.00MHz, Direction A)

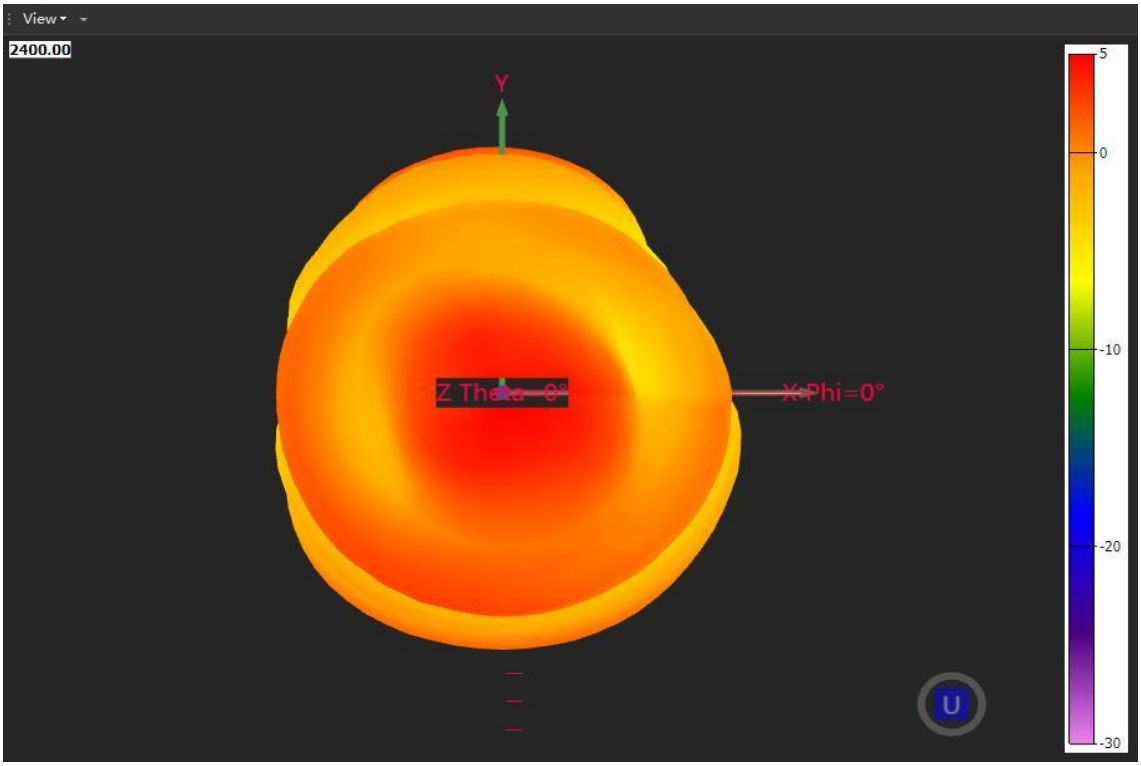


Figure 2: Sample 1 (3D radiation direction diagram, 2400.00MHz, direction B)

unit:dBm

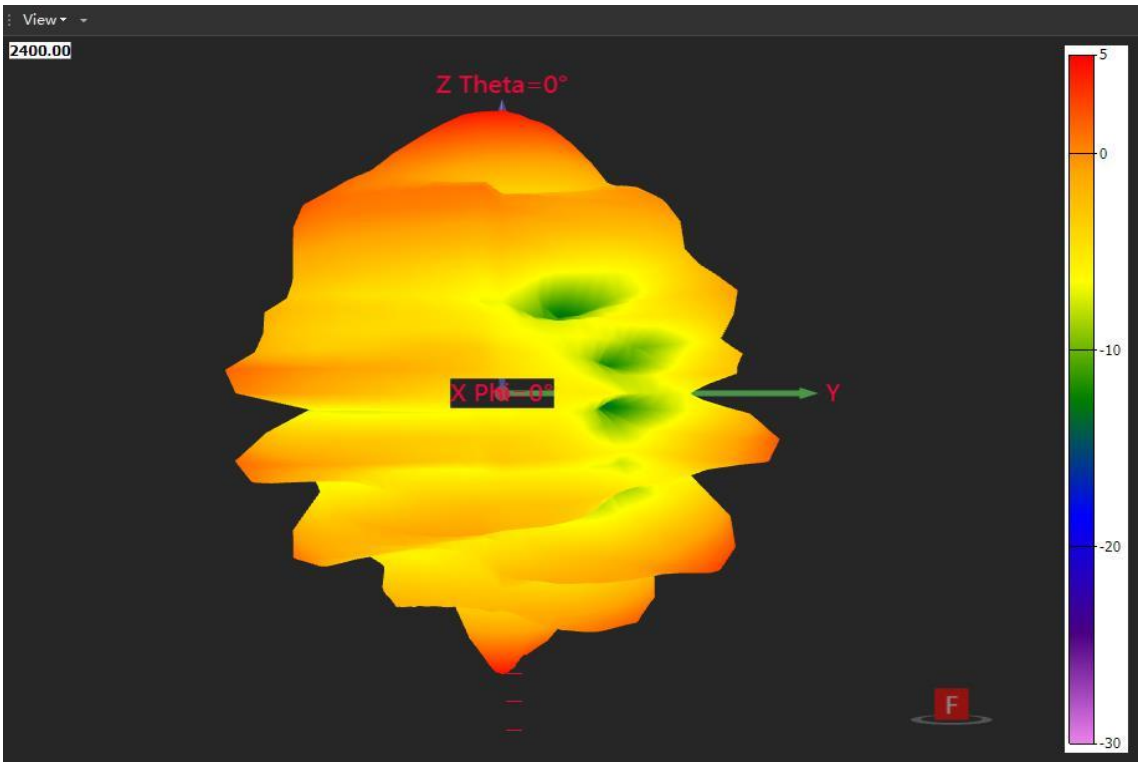


Figure 3: Sample 1 (3D radiation direction diagram, 2400.00MHz, direction C)

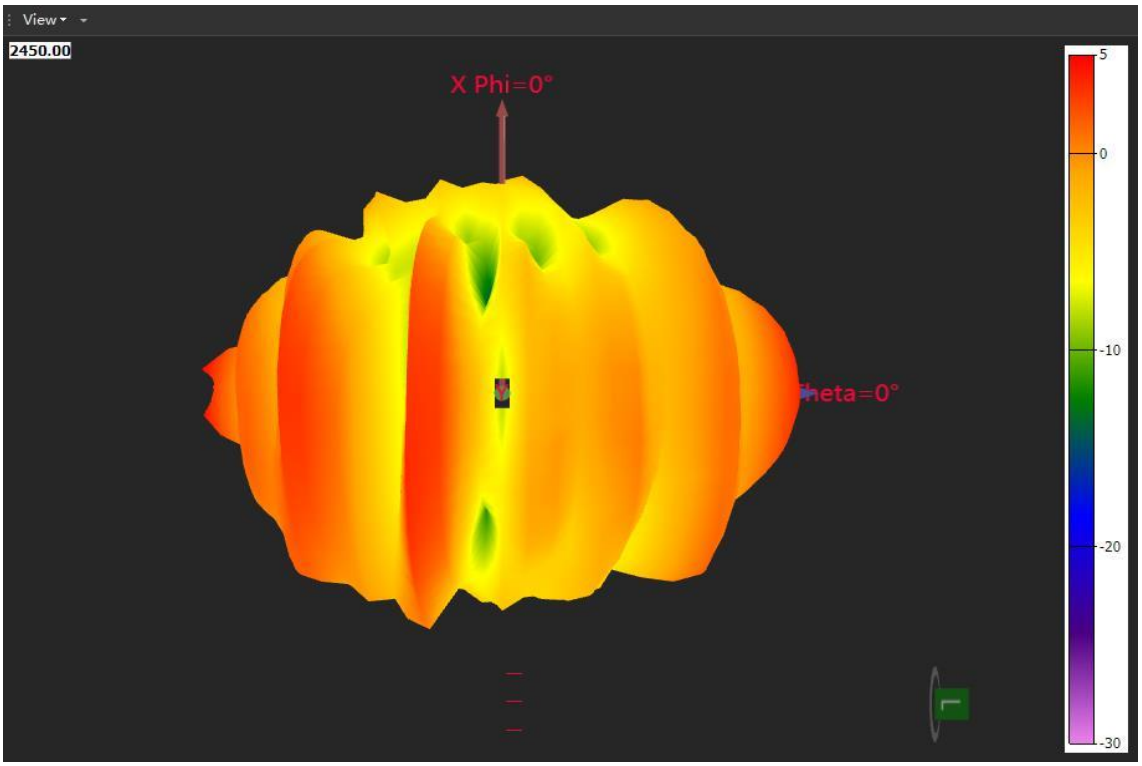


Figure 4: Sample 1 (3D radiation direction diagram, 2450.00MHz, Direction A)

unit:dBm

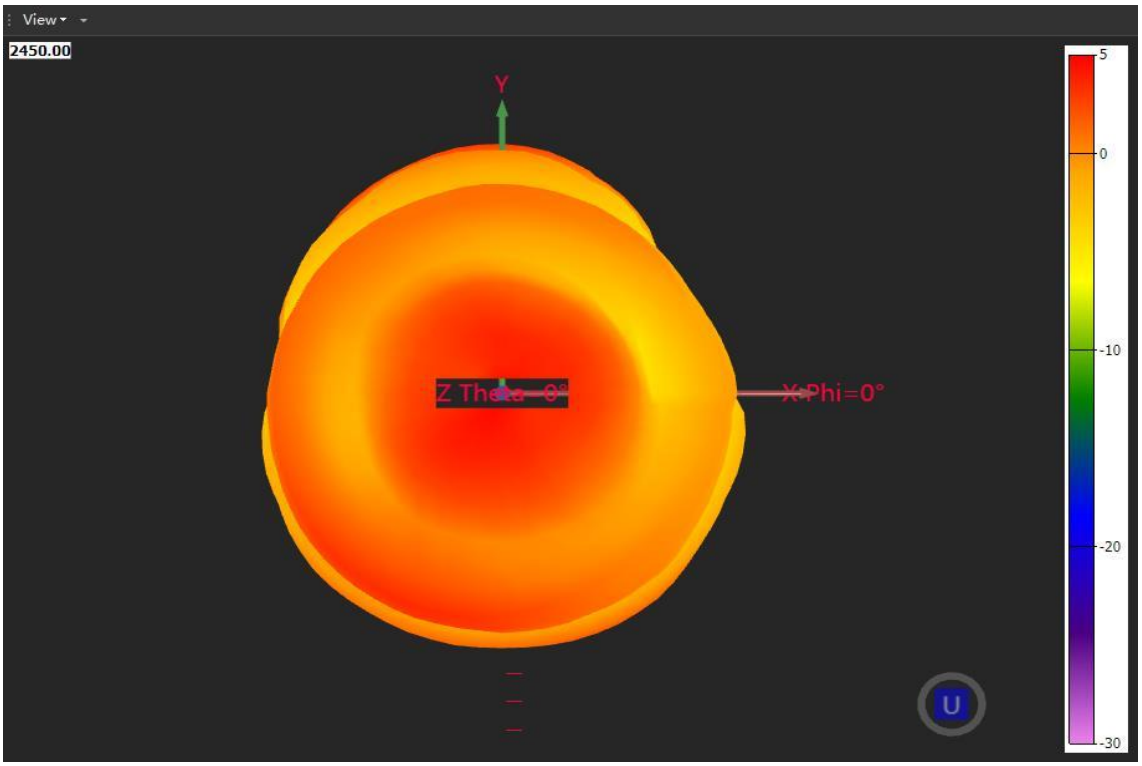


Figure 5: Sample 1 (3D radiation direction diagram, 2450.00MHz, direction B)

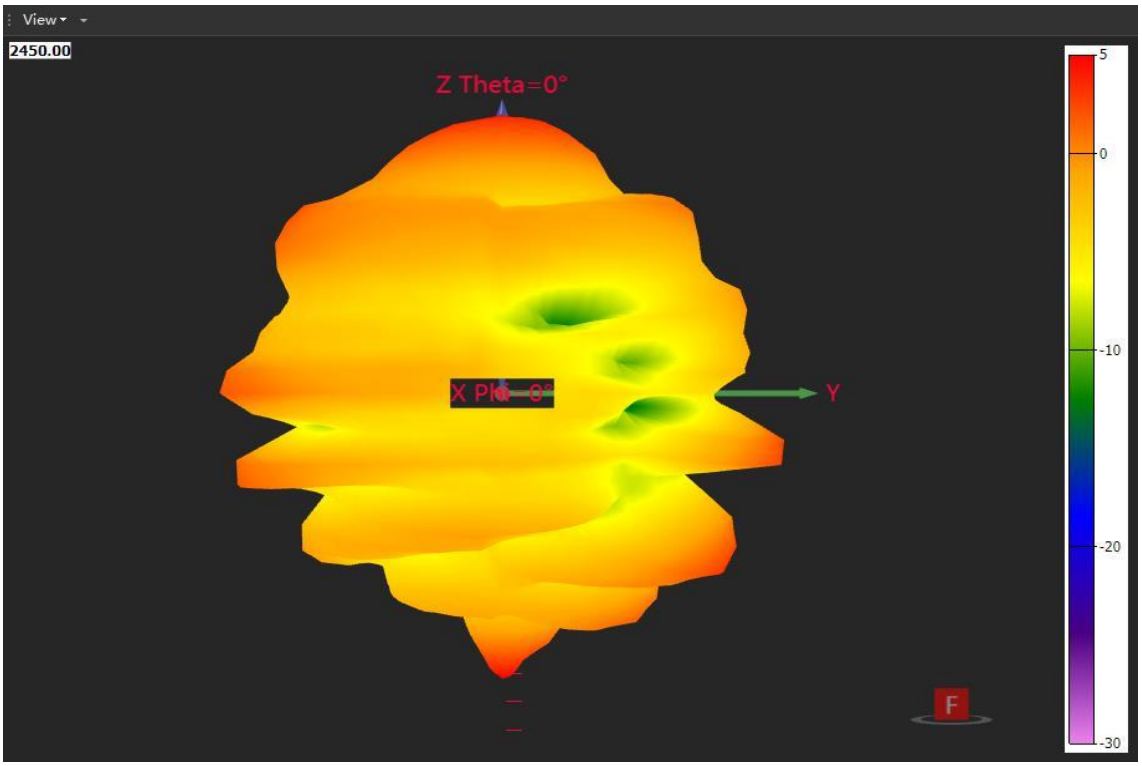


Figure 6: Sample 1 (3D radiation direction diagram, 2450.00MHz, direction C)

unit:dBm

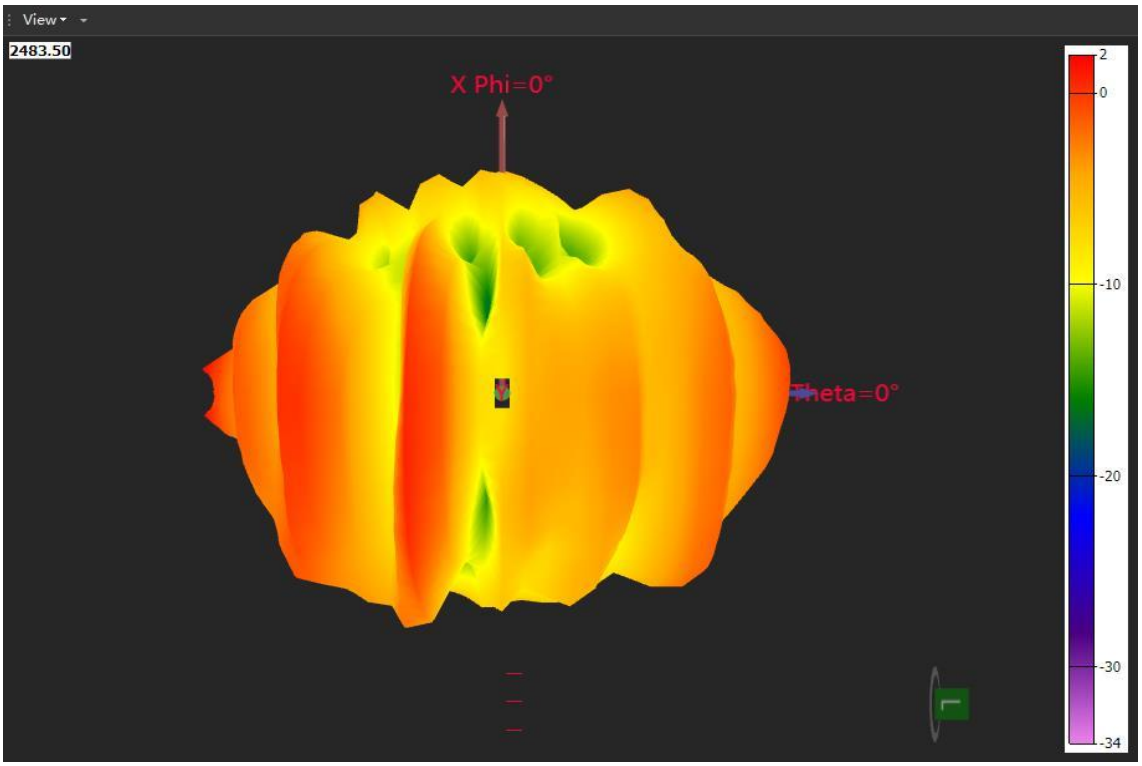


Figure 7: Sample 1 (3D radiation direction diagram, 2483.50MHz, Direction A)

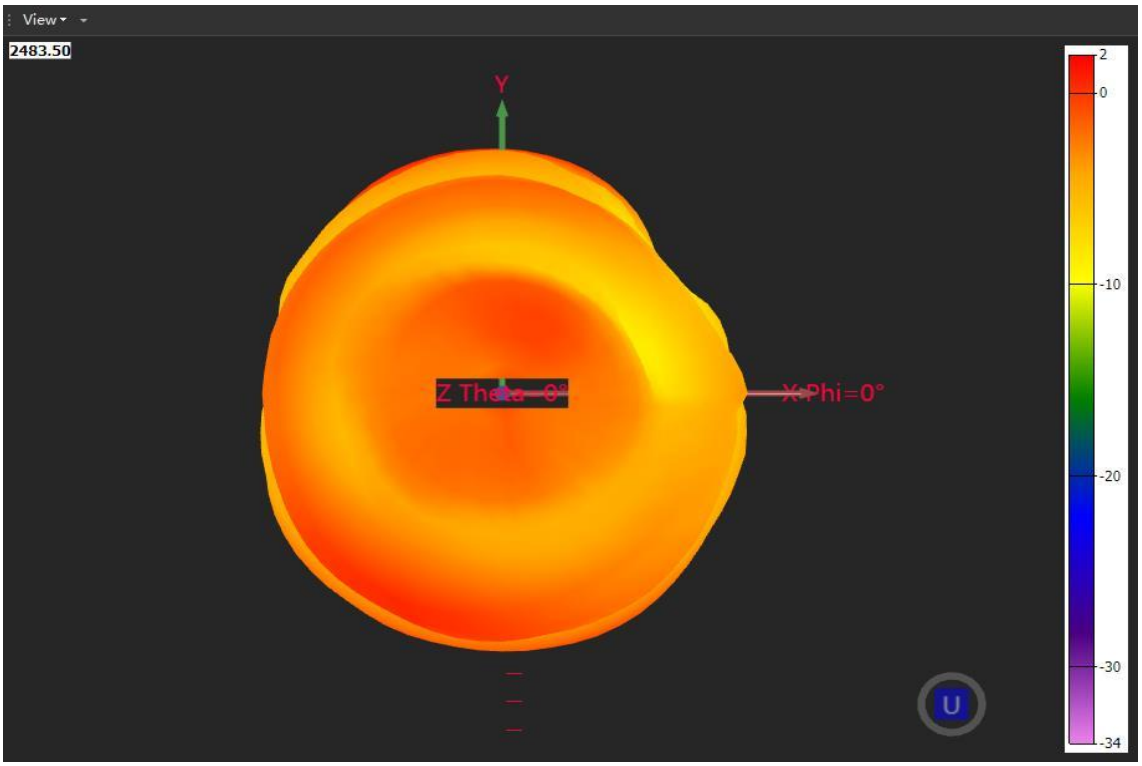


Figure 8: Sample 1 (3D radiation direction diagram, 2483.50MHz, Direction B)

unit:dBm

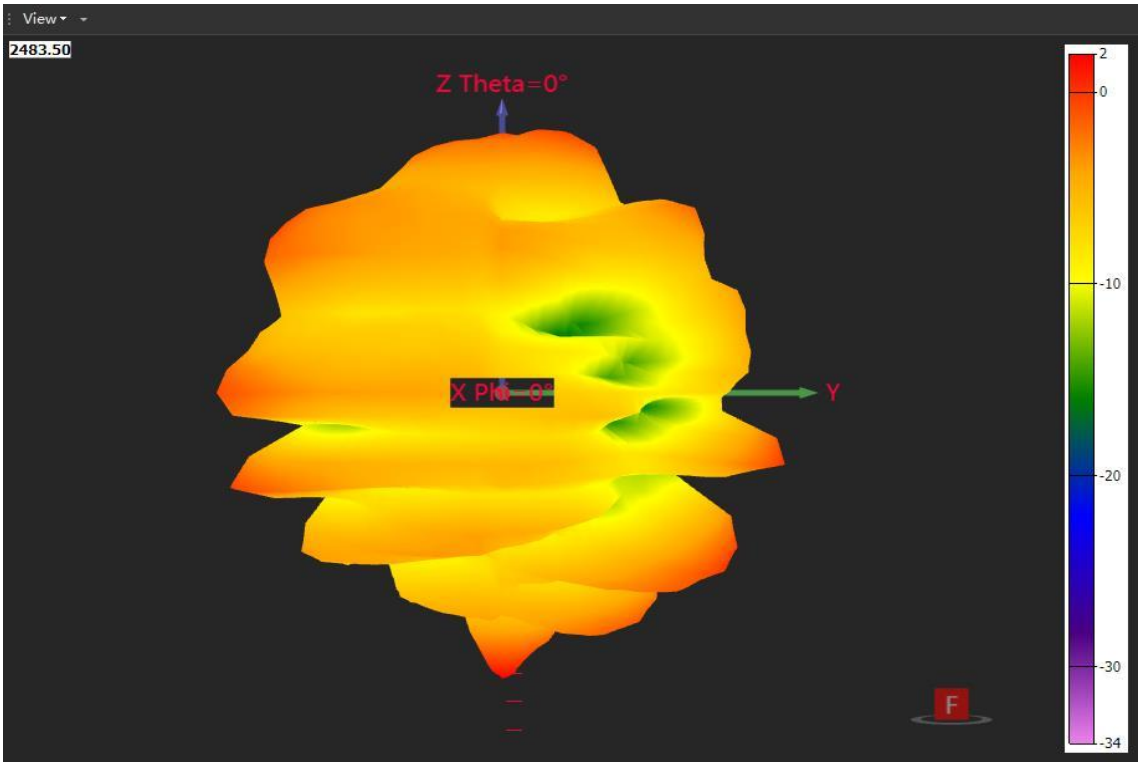


Figure 9: Sample 1 (3D radiation direction diagram, 2483.50MHz, direction C)

2. 2# Sample

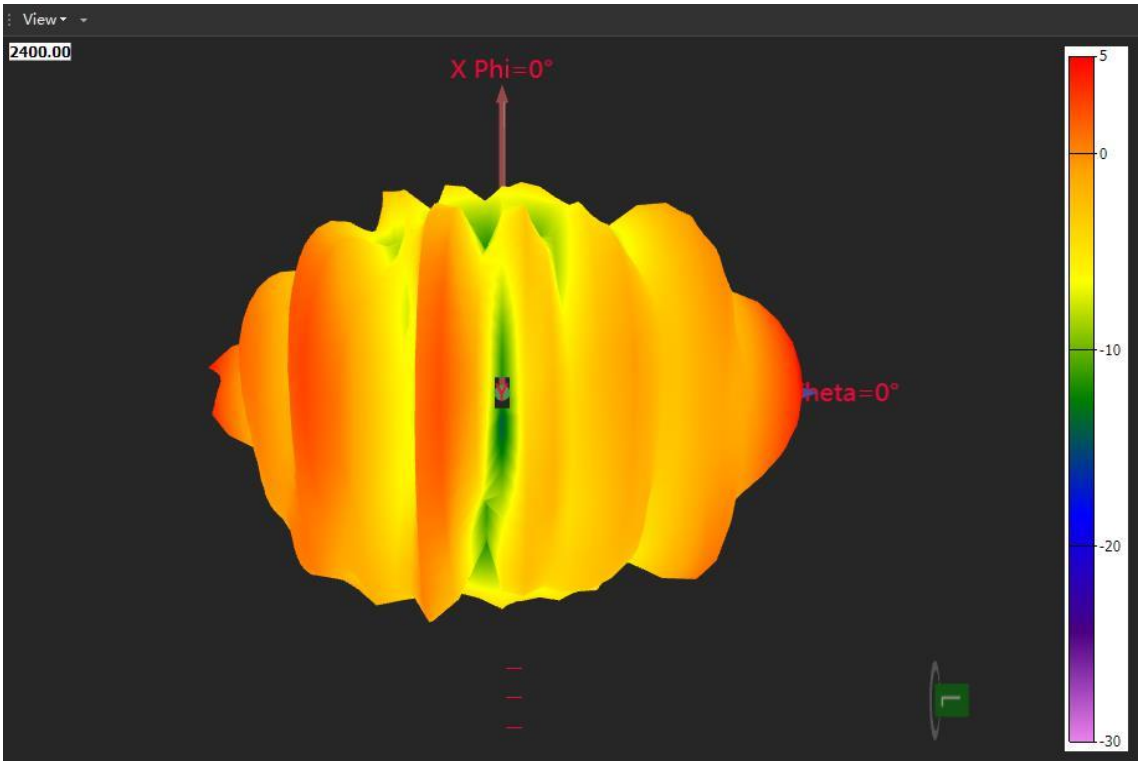


Figure 10: Sample 2# (3D radiation direction diagram, 2400.00MHz, Direction A)

unit:dBm

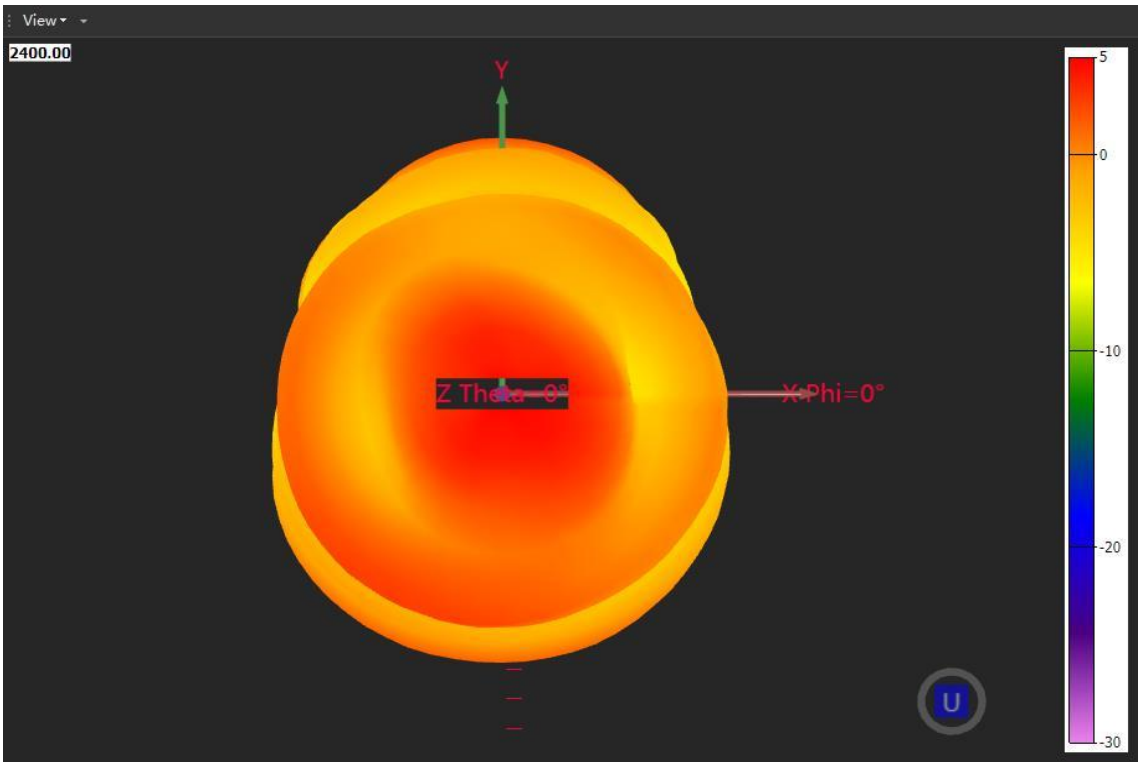


Figure 11: Sample 2# (3D radiation direction diagram, 2400.00MHz, direction B)

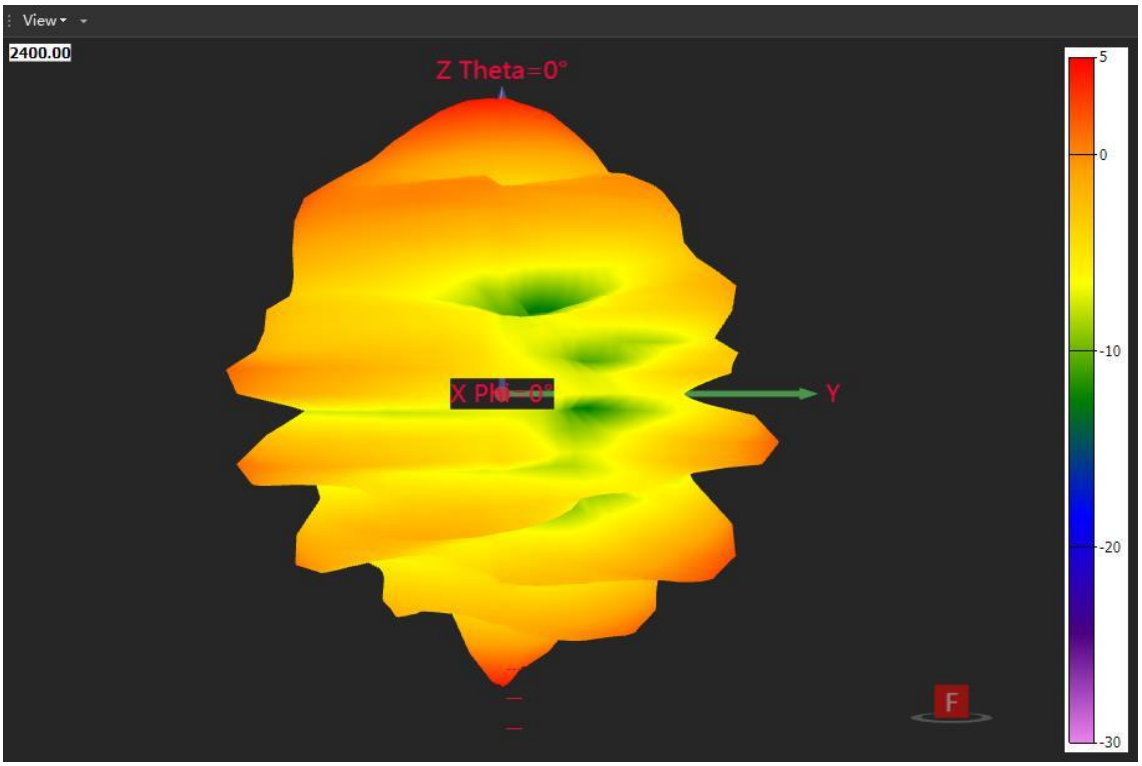


Figure 12: Sample 2 (3D radiation direction diagram, 2400.00MHz, direction C)

unit:dBm

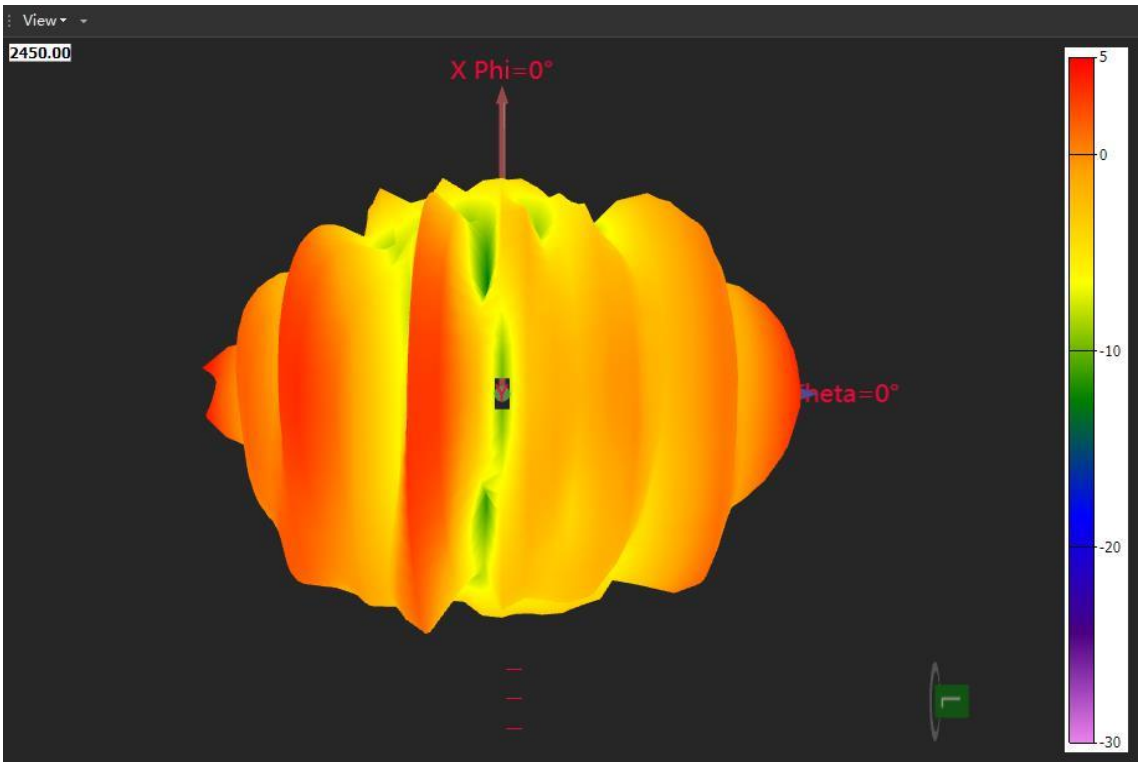


Figure 13: Sample 2# (3D radiation direction diagram, 2450.00MHz, direction A)

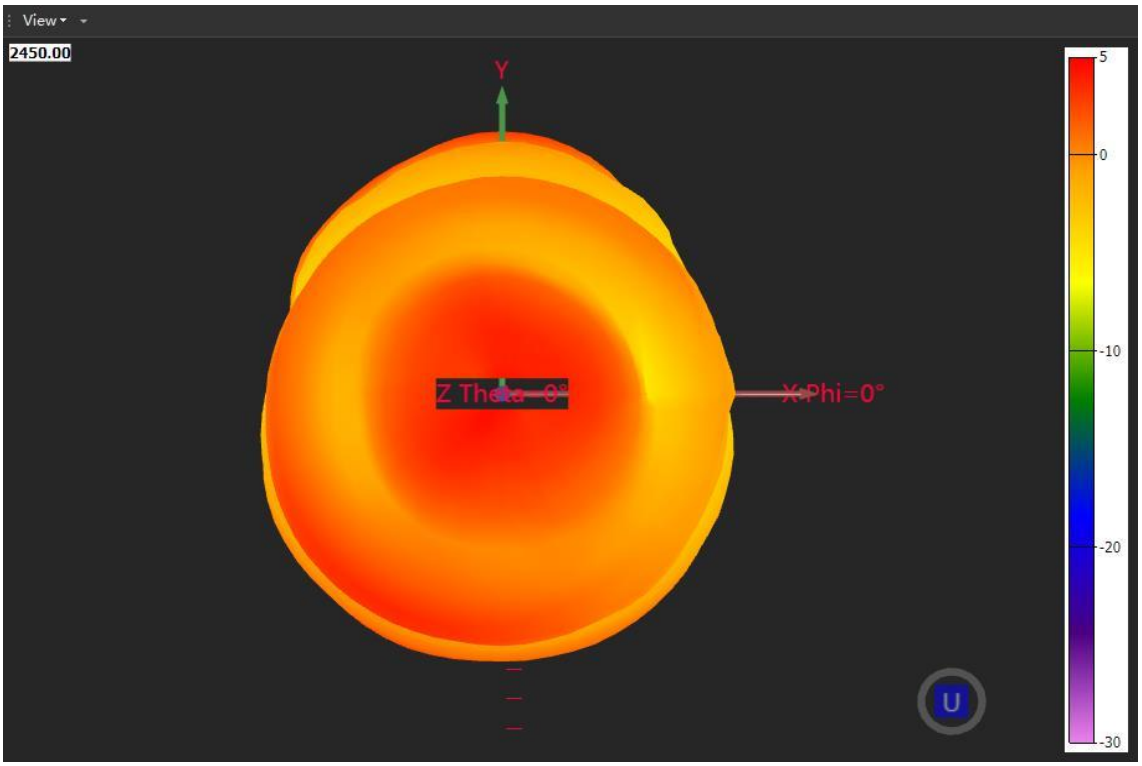


Figure 14: Sample 2# (3D radiation direction diagram, 2450.00MHz, direction B)

unit:dBm

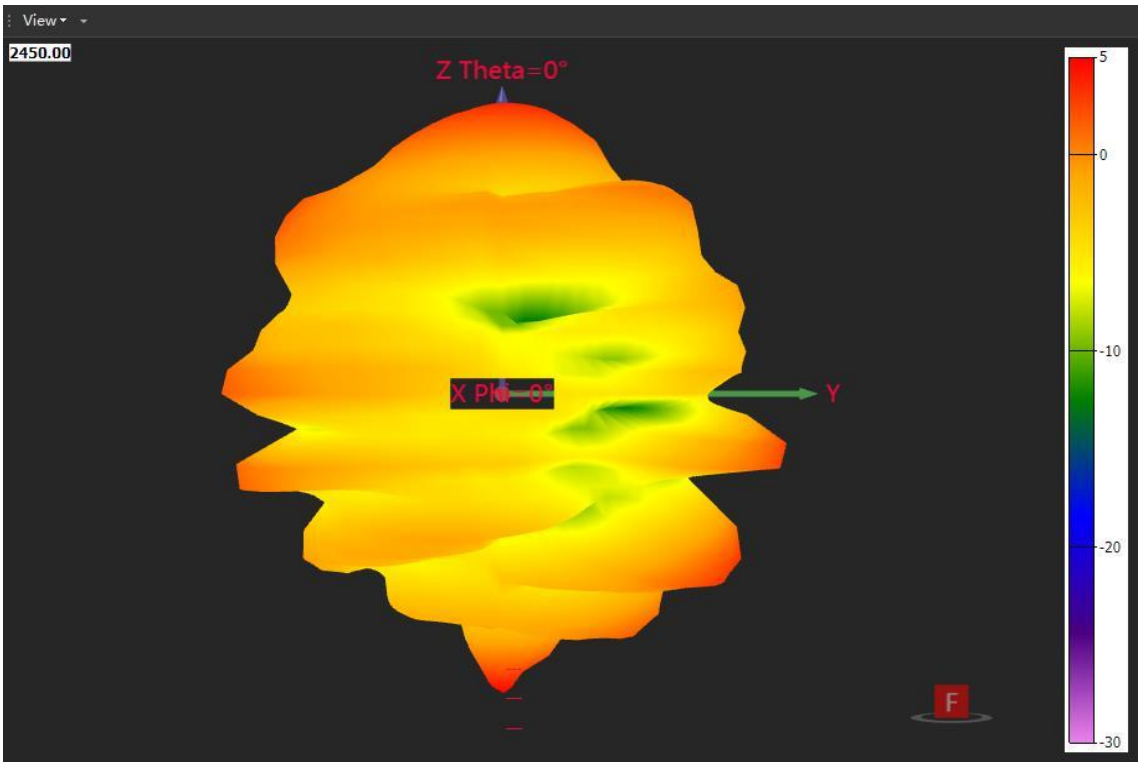


Figure 15: Sample 2 (3D radiation direction diagram, 2450.00MHz, direction C)

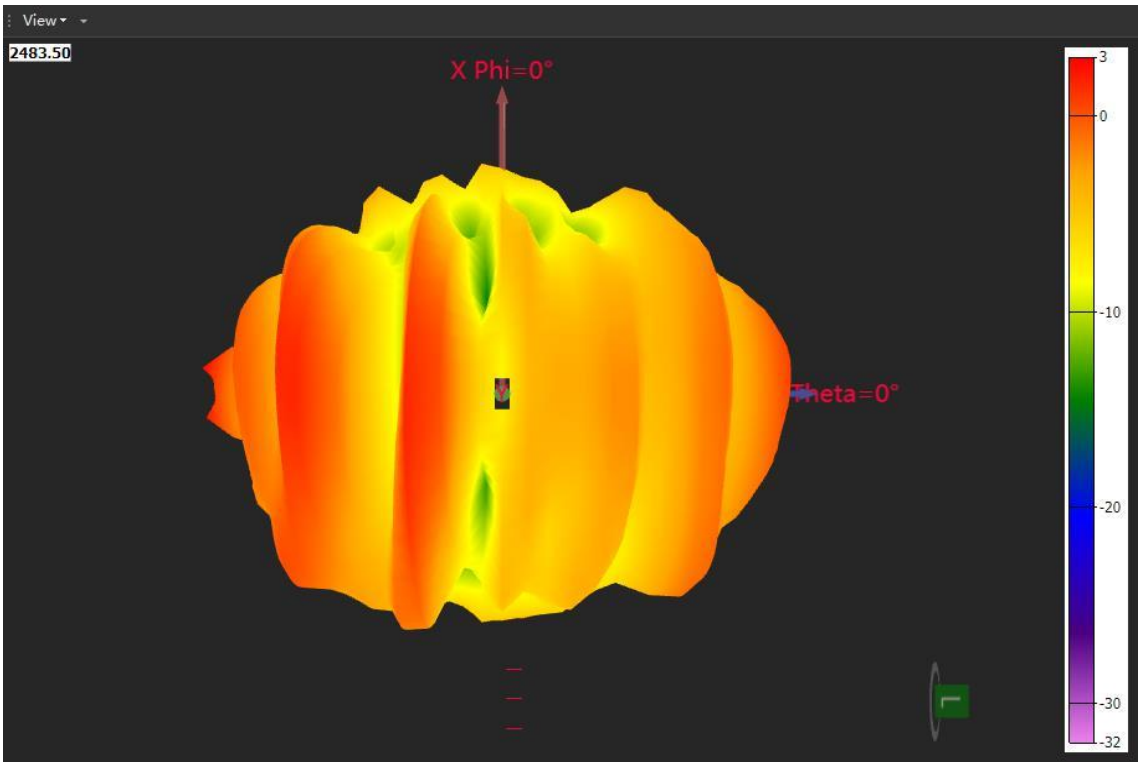


Figure 16: Sample 2# (3D radiation direction diagram, 2483.50MHz, Direction A)

unit:dBm

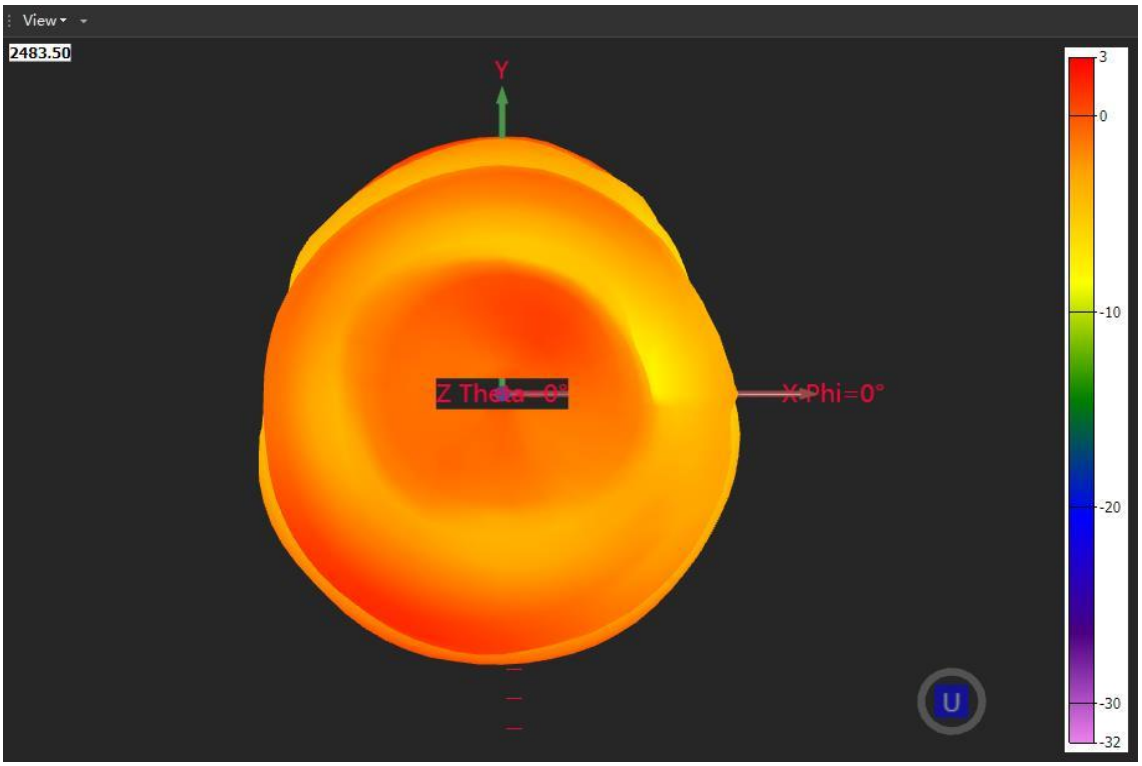


Figure 17: Sample 2# (3D radiation direction diagram, 2483.50MHz, direction B)

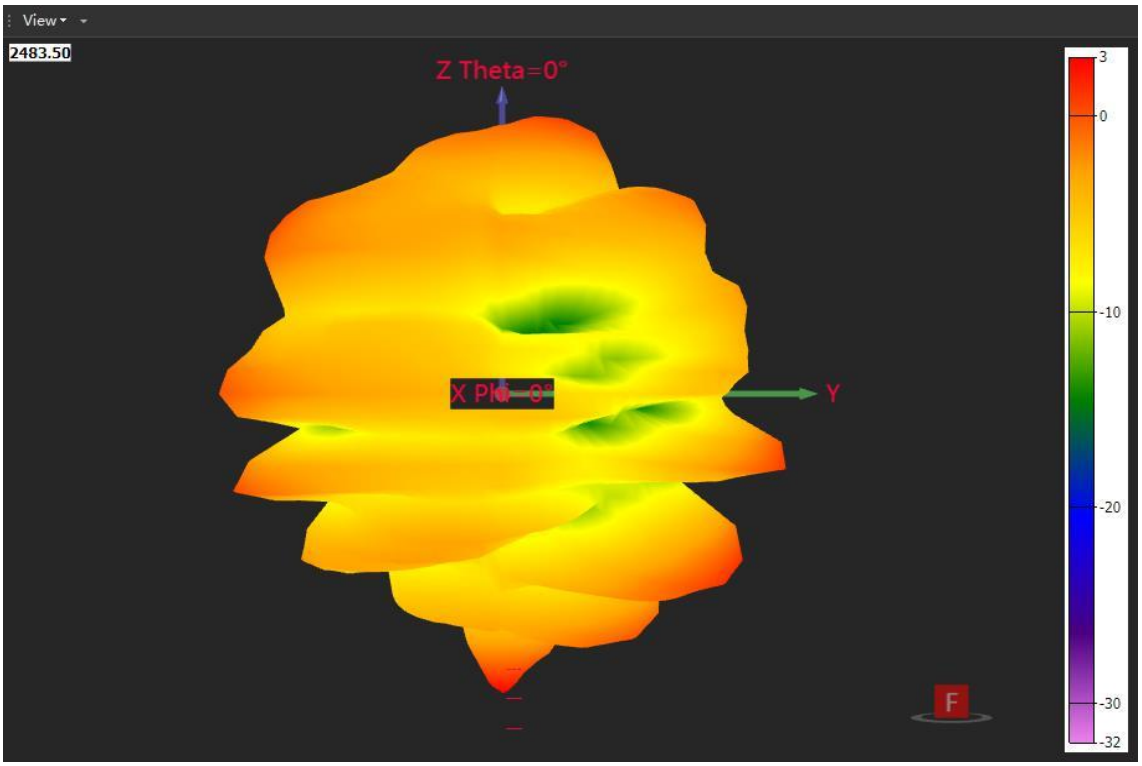


Figure 18: Sample 2# (3D radiation direction diagram, 2483.50MHz, direction C)

unit:dBm

3. 3# Sample

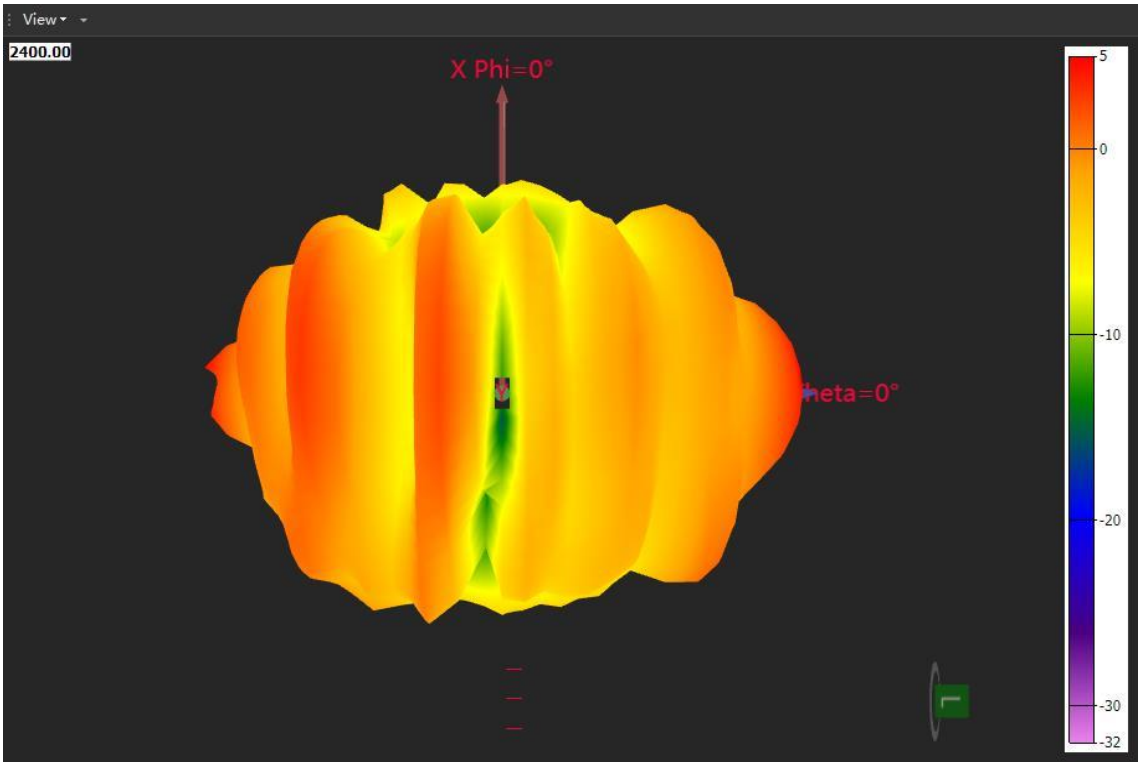


Figure 19: Sample 3# (3D radiation direction diagram, 2400.00MHz, direction A)

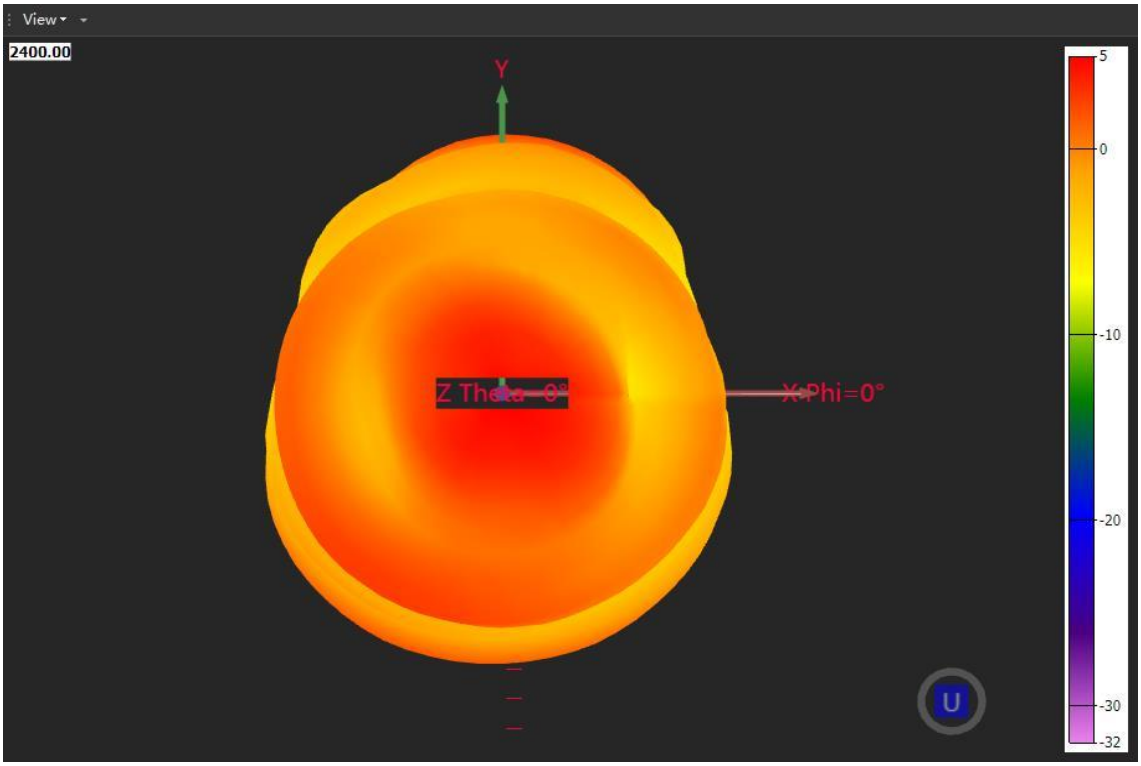


Figure 20: Sample 3# (3D radiation direction diagram, 2400.00MHz, direction B)

unit:dBm

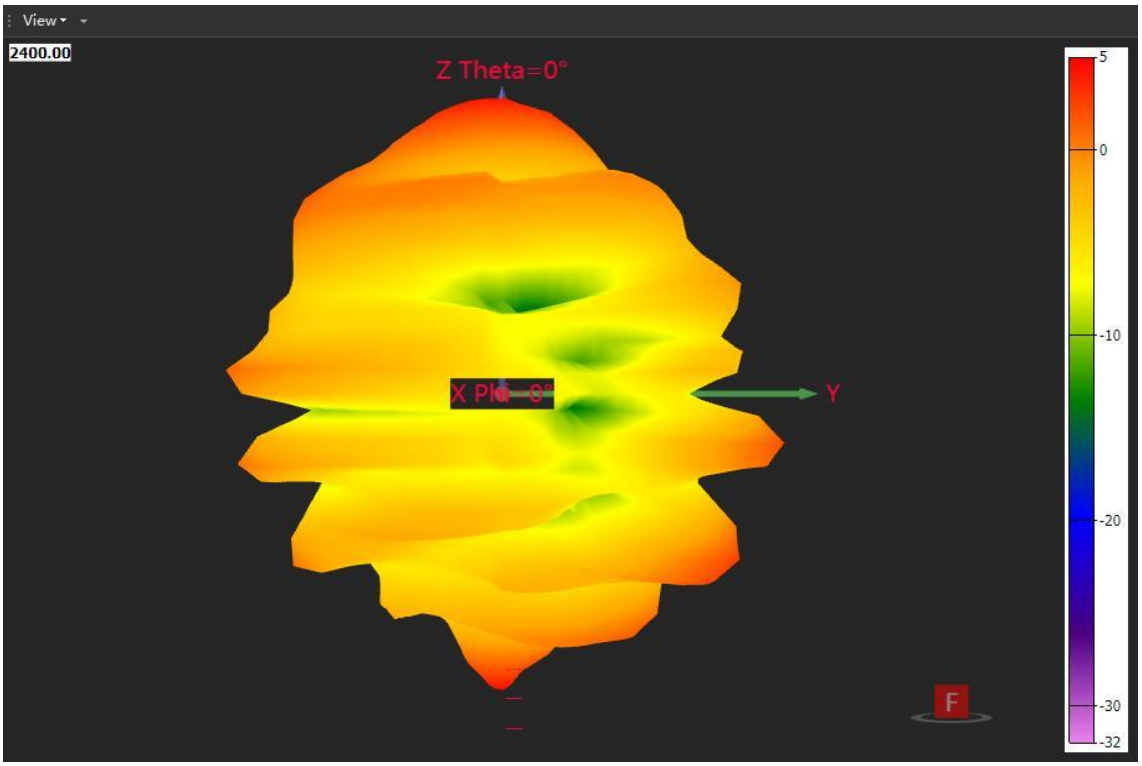


Figure 21: Sample 3# (3D radiation direction diagram, 2400.00MHz, direction C)

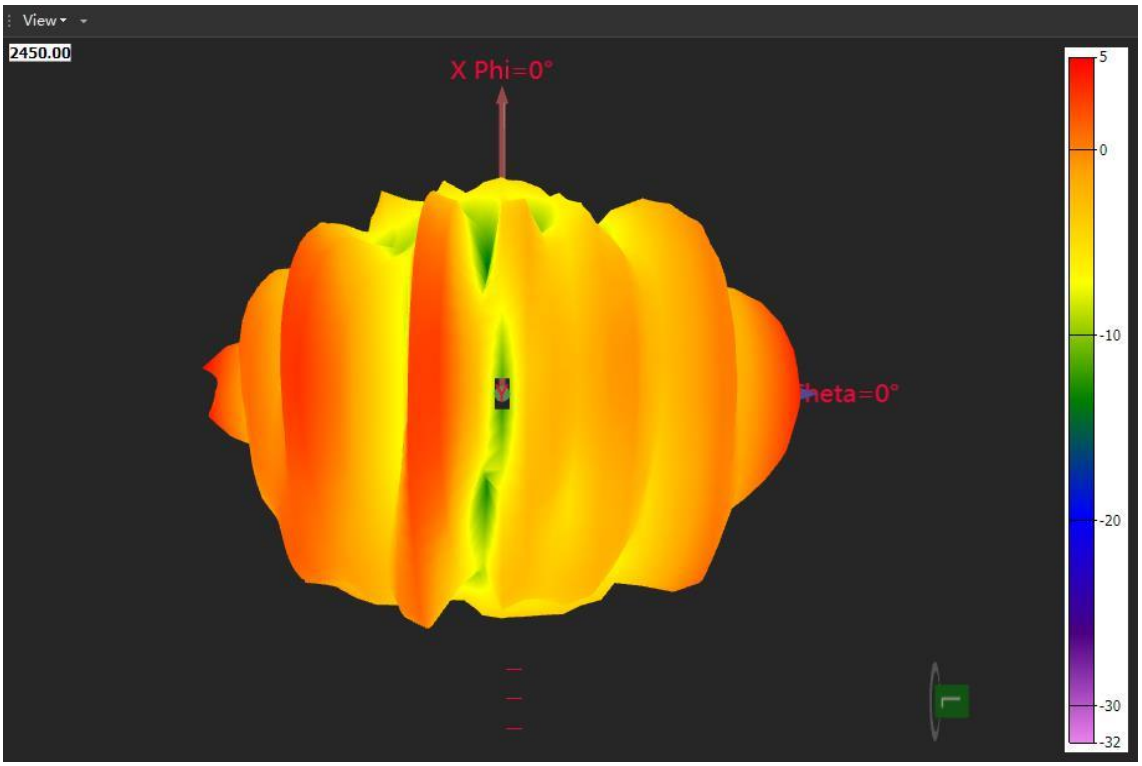


Figure 22: Sample 3# (3D radiation direction diagram, 2450.00MHz, direction A)

unit:dBm

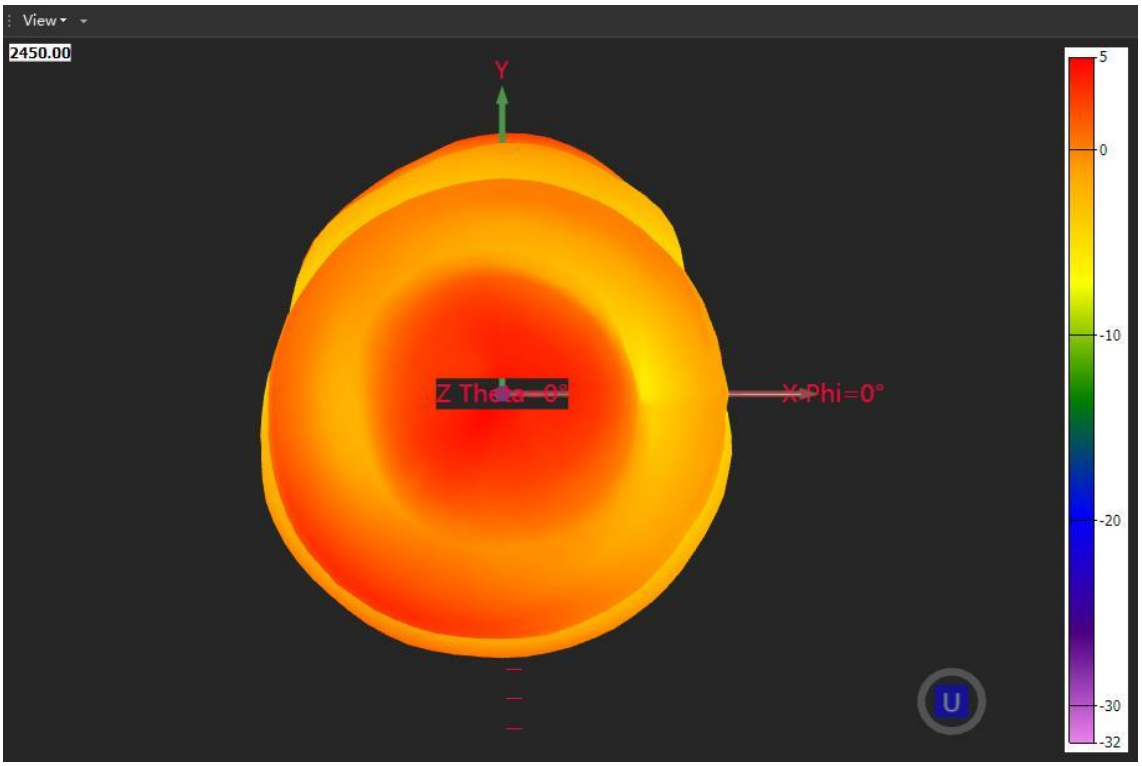


Figure 23: Sample 3# (3D radiation direction diagram, 2450.00MHz, direction B)

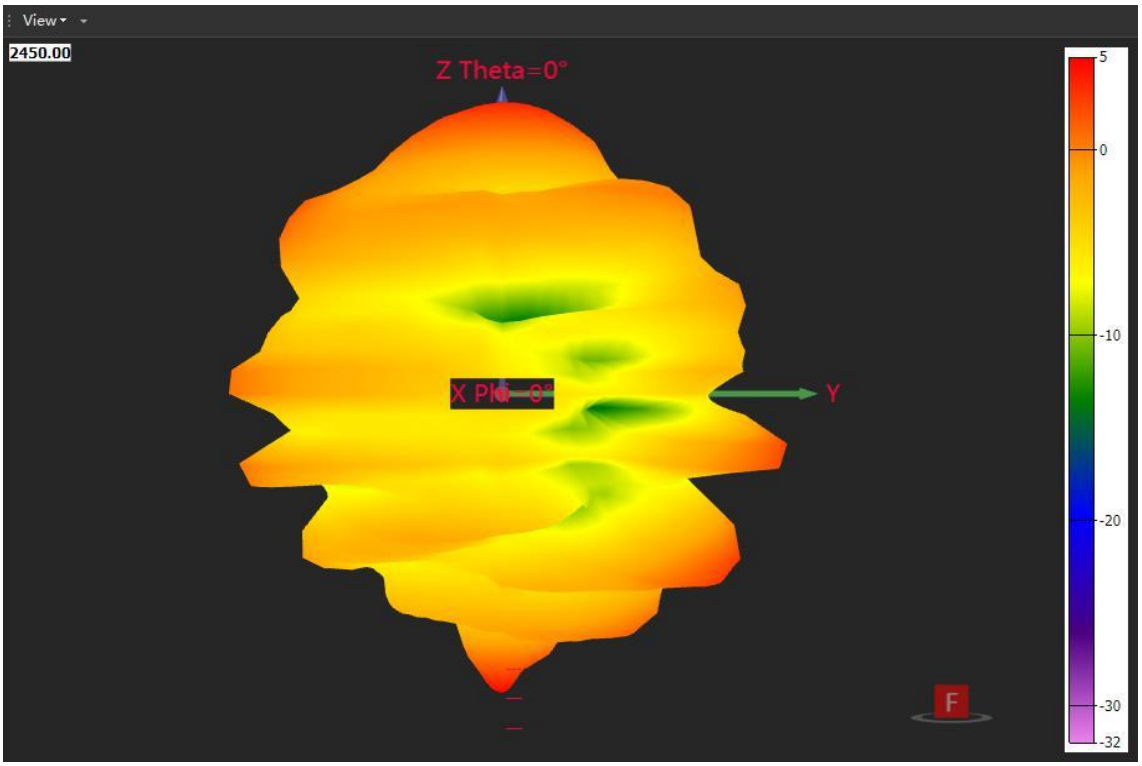


Figure 24: Sample 3# (3D radiation direction diagram, 2450.00MHz, direction C)

unit:dBm

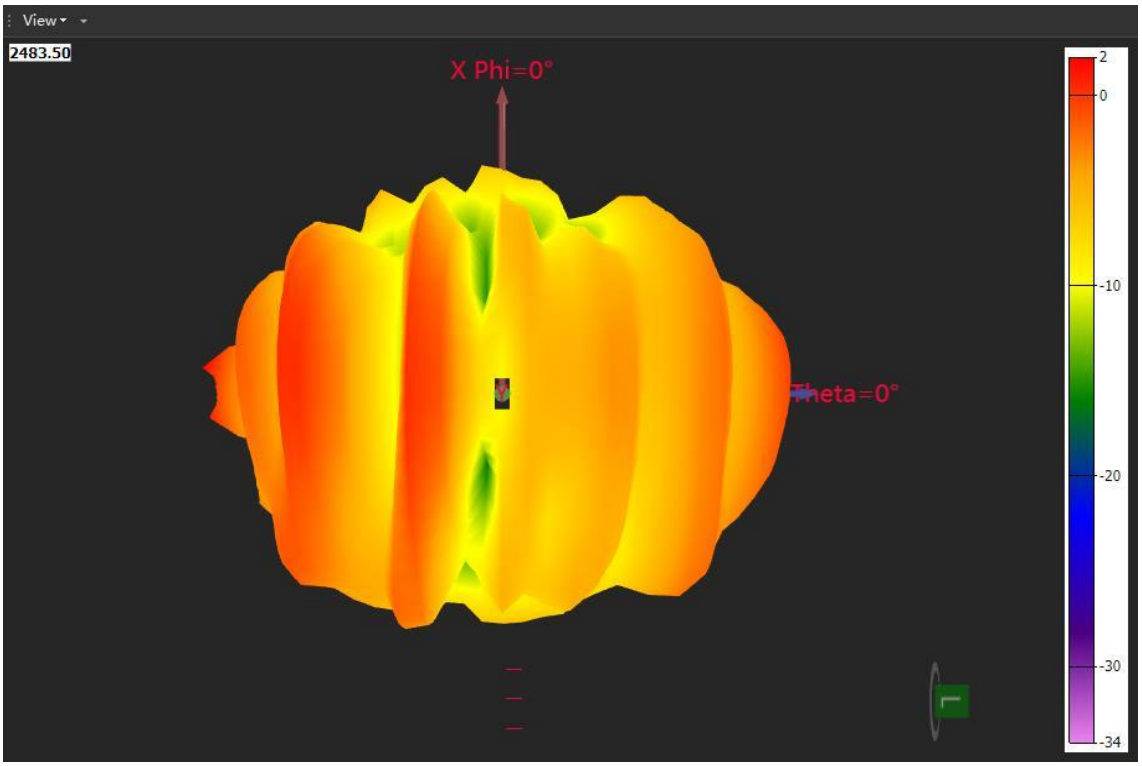


Figure 25: Sample 3# (3D radiation direction diagram, 2483.50MHz, Direction A)

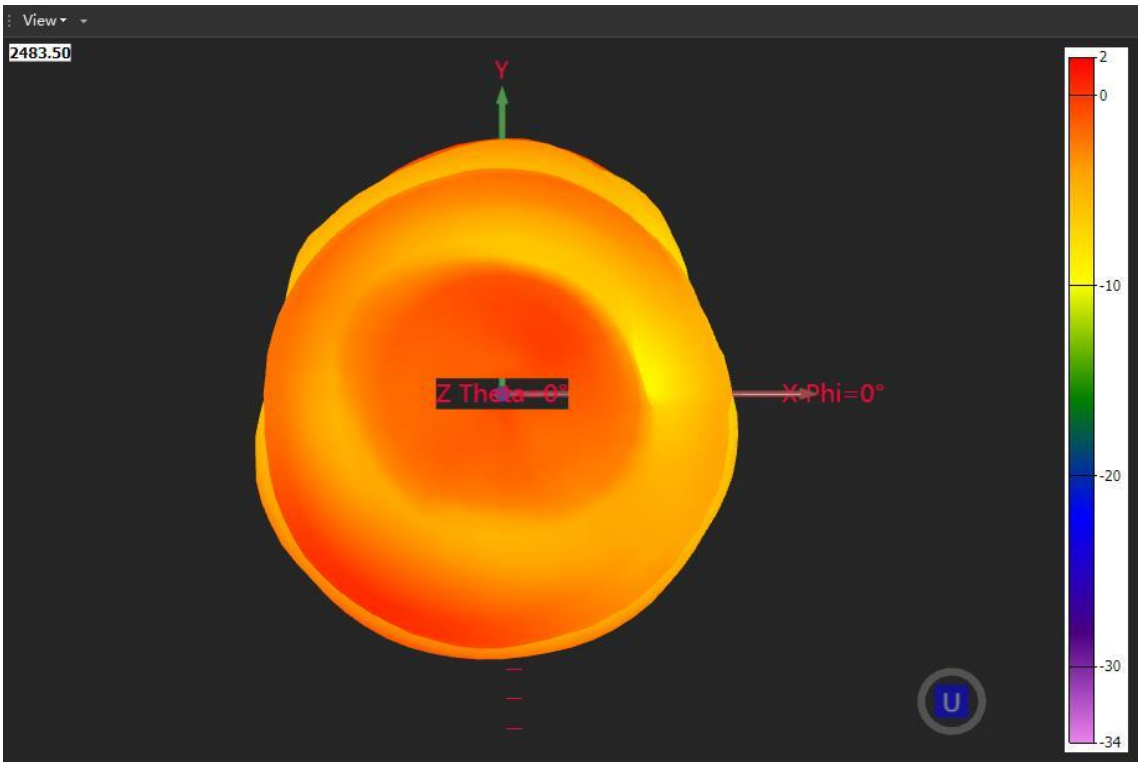


Figure 26: Sample 3# (3D radiation direction diagram, 2483.50MHz, direction B)

unit:dBm

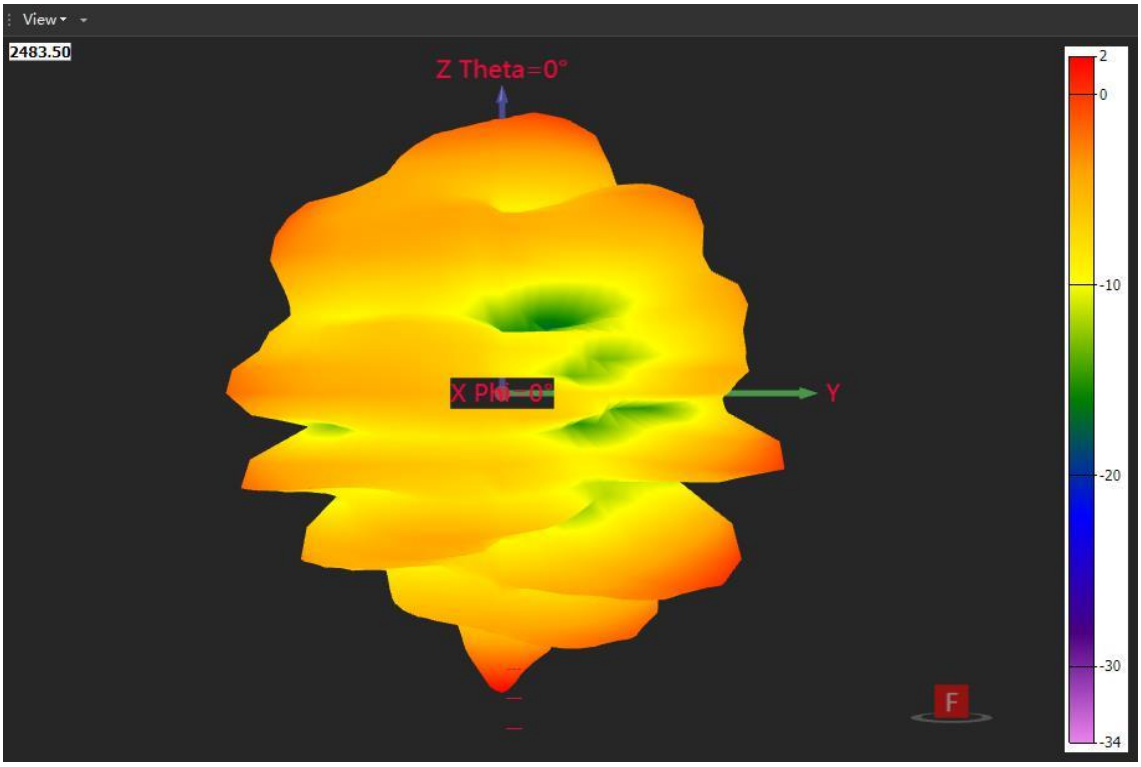
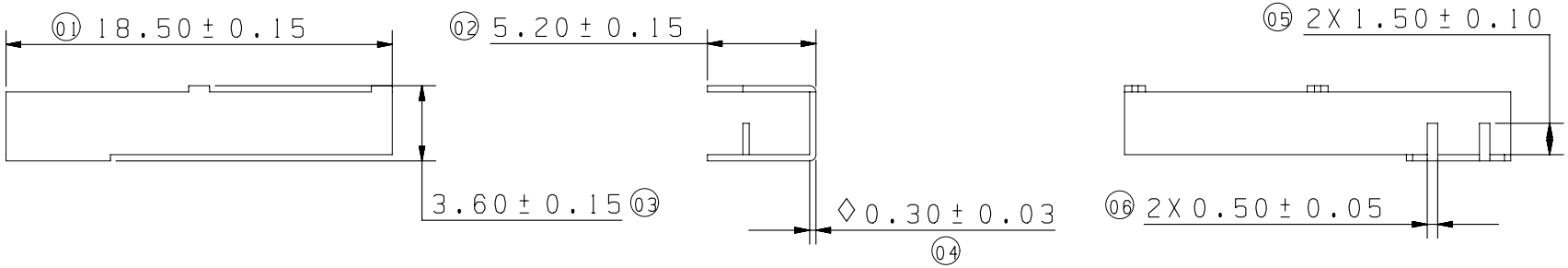
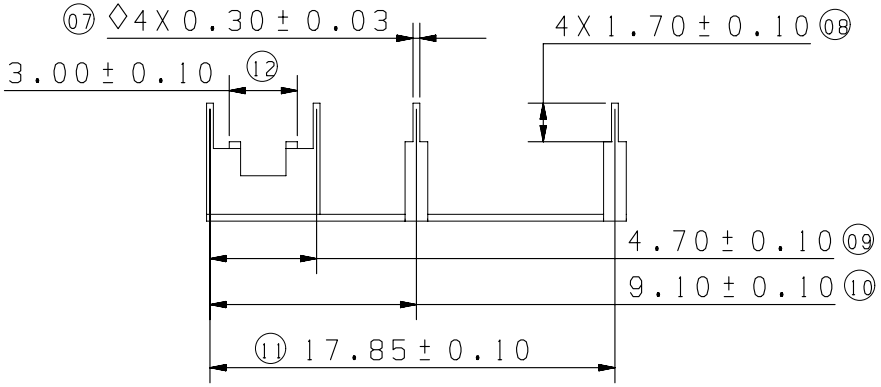


Figure 27: Sample 3# (3D radiation direction diagram, 2483.50MHz, direction C)

unit:dBm

ST-3642706





技术要求

1、产品表面应洁净；无明显油污、锈蚀、脱锌及明显机械划伤和严重拉伤痕
2、产品材质为洋百铜，满足过SMT回流焊接工艺要求（高温260 ）；
3、产品符合RoHS最新标准；
4、产品表面无飞边，产品毛刺高度控制在0.2mm内；
5、未注尺寸参照3D数模，带◇为重点尺寸，未注尺寸公差按照
《GB/T 1804-2000》m级，如未注公差表所示；
6、要求满足48H中性盐雾试验，外观腐蚀面积小于5%；

unit:mm

未注公差表

基本尺寸	允许偏差	基本尺寸	允许偏差
0.5~3	± 0.10	>3~6	± 0.10
>6~30	± 0.20	>30~120	± 0.30
>120~400	± 0.50		

B0	/	初版受控		董群一	240624
标记	处数	更改文件号		签字	日期
签字		日期	签字		日期
设计	董群一	240624	标准	黄永超	240624
审核	曹斌	240624	批准	张建	240624
工艺	孙勇	240624			

蓝牙天线

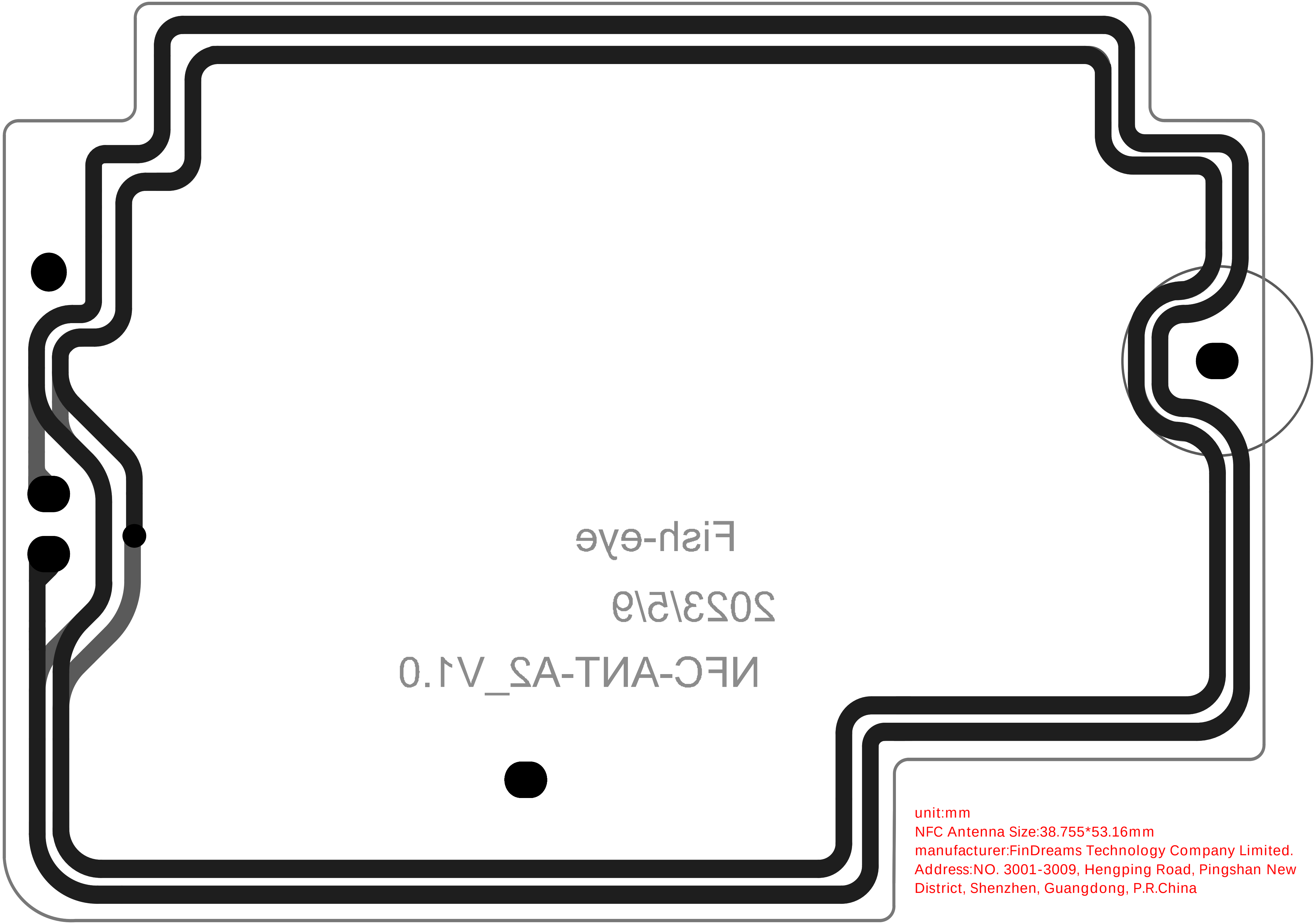
材料：洋白铜

ST-3642706

图样标记			质量	数量	比例
B0			1.5g	1	1:1
共1页	第1页	数据等级		机密	

manufacturer:FinDreams Technology Company Limited.
Address:NO. 3001-3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China

A4



unit:mm

NFC Antenna Size:38.755*53.16mm

manufacturer:FinDreams Technology Company Limited.

Address:NO. 3001-3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China