

1. Antenna Specification/天线标准

Antenna Specification/天线技术参数

Electrical Specification/电气特性

Item/目录	Specification/规格	Comment/ 备注
Freq. Range/频段范围	2350MHz -2550MHz/5100MHz-5900MHz	
Impedance/阻抗	50 (Ω)	
Directional/辐射方向	Omni Directional/全向天线	
Polarization/极化形式	Vertical/垂直极化	
VSWR/驻波比	≤ 2.5 / ≤ 3.0	
Peak Gain/峰值增益	0.72dBi / -1.11dBi	
Test condition/测试条件	passive test (无源测试)	
Total Efficiency/无源效率	$\geq 20.94\%$ / $\geq 22.74\%$	

Mechanical Specification/机械指标

Antenna type/天线类型	LDS+cable	
Connector Type/连接器类型	ECT 2 代连接器/USS RF 2	
RF Cable Type/射频线型号	0.81 黑色普通线 / 0.81 Normal (Black)	
Dimension/尺寸	140.5*20.12*5.2mm	
Salt Spray/盐雾测试	24(H)	

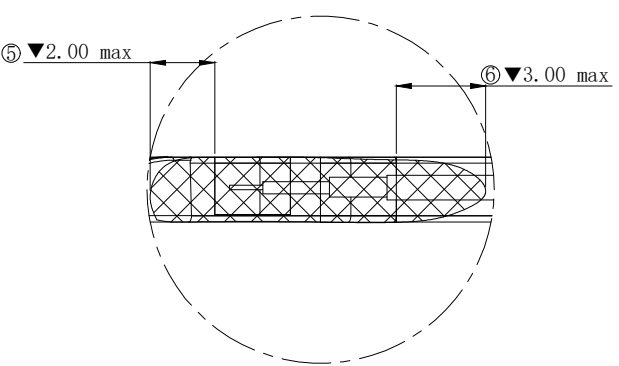
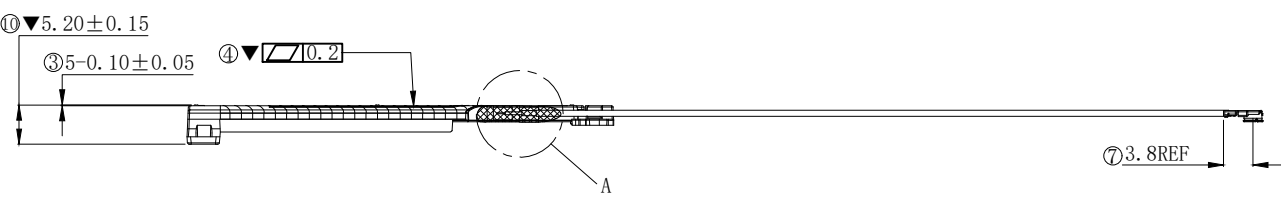
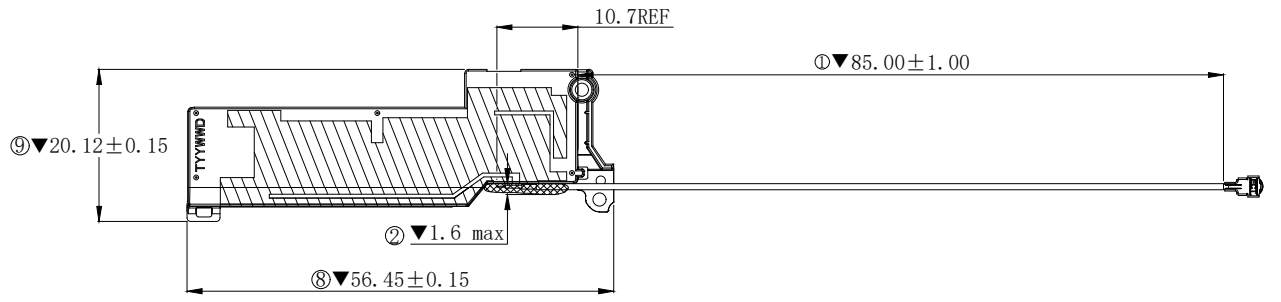
Environmental Specification /环境指标

Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/存储温度	-40°C ~ +80°C	

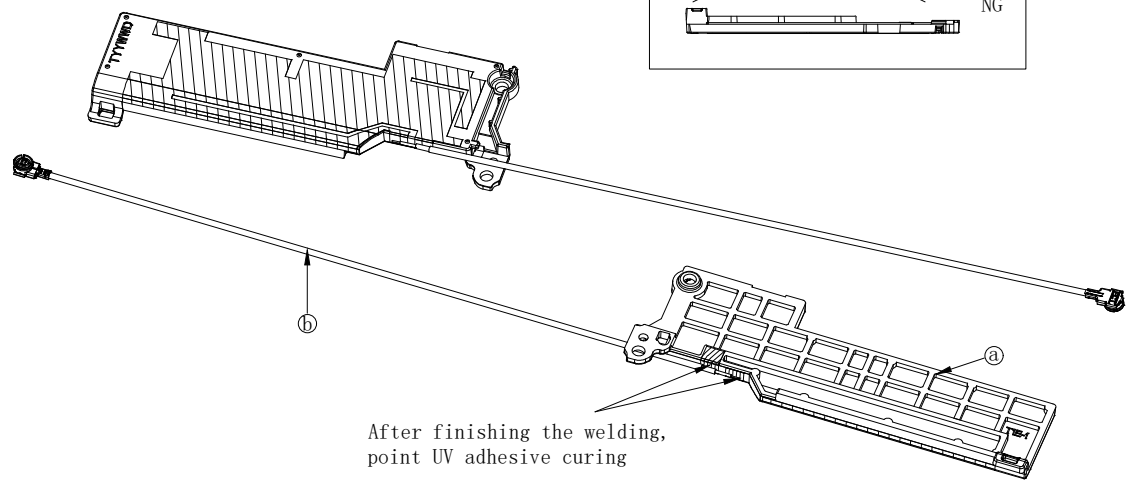
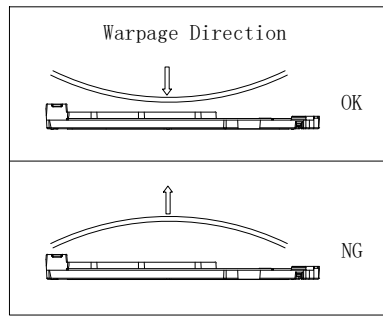
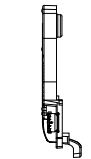
2. Antenna Picture/天线图片



REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
A	ECN222882	First release	05/06' 23	丁第斌	张苟彪	牛宝星



Detailed A
4:1
Measure after UV glue

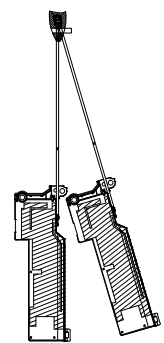


- NOTES:
- The product surface is clean, no tin paste residue; the product has No significant shrinkage, lack of material, leakage plating, overflow plating and other adverse phenomena.
 - Marked with "▼" for QC focus detection size;
 - HSF shall conform to the standard QE-Q-19-001 Environmental Hazardous Substances Management.

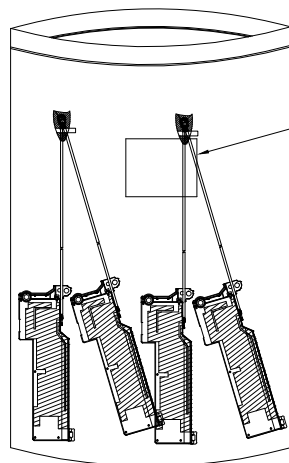
b	CABLE ASSY	1	USS RF CABLE, G2, SG, 081BK, 96.2, 097
a	ANT1 LDS	1	U450_ANT1_cu 8~12um Ni 1~5um
ITEM	PART NAME	Q' TY	MATERIAL / FINISH

	GENERAL TOLERANCE		SCALE:	DRAWN:	DATE:	DWG. NO:	TITLE:	REV.
	.XX ± 0.1	.X° ± 1°	1:1	丁第斌	05/06' 23			151-U450-01
			UNIT:	CHECK:	DATE:	PARTS NO. (INTENDED USE):	LDS_TO_G2_081BK_96.2_ANT1	SHEET:
			mm	APPROVE:	DATE:	81800U450	1/1	
		SIZE:						
		A4						

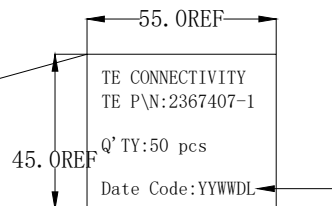
Rev.	ECN Number	Description	Date	Drawn	Checkd	Approved
A	ECN222882	正式发行	05/06'23	丁第斌	张苟彪	牛宝星



25 PCS/Bundle
25 PCS/扎



50pcs/Bag
drying agent:1pcs/Bag
50pcs/袋
干燥剂:1pcs/袋



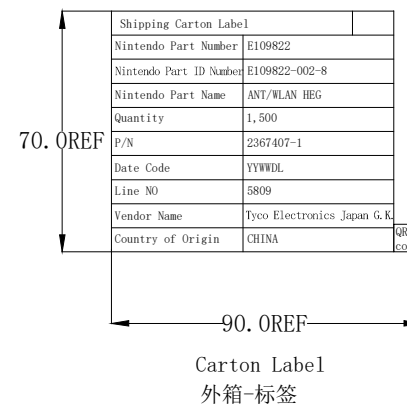
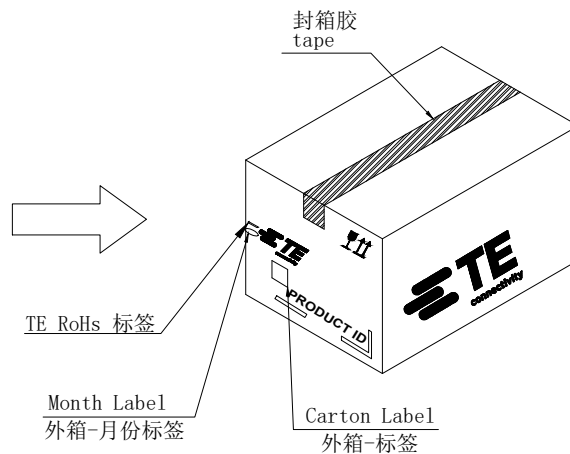
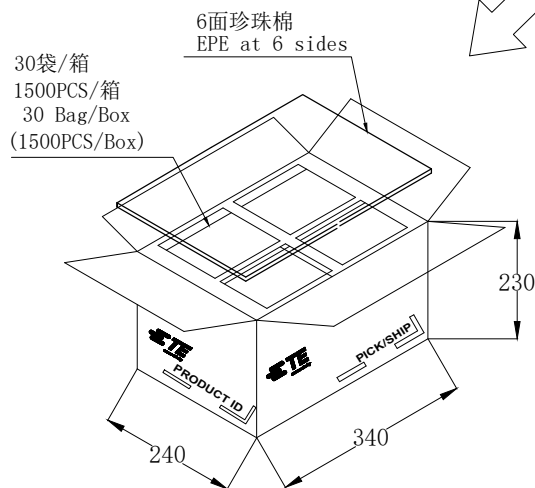
Number labels
内袋-数量标签

YYWDDL需要与产品
镭雕的YYWDDL相对应

Importance of check:

1. 包装前检查产品有无变形。
Check whether the product is out of shape before packing.
2. 包装时产品轻拿轻放, 避免产品变形。
When packing, handle the product lightly to avoid product distortion.
3. PE袋包装好后, 检查是否有漏装, 产品的放置方向是否正确。
After packed, check whether there is any miss and whether the product is placed in the correct direction.
4. 若有未装满之零数箱, 须以缓冲材塞满。
If there are unfilled boxes, fill them with buffer materials.
5. 整箱封好后, 检查标签是否贴好, 干净, 字迹清晰, 标签内容是否正确, 完善。
After the Carton is sealed, check whether the label is properly affixed, clean, legible, and whether the label content is correct.
6. 纸箱内尺寸(604010011): L340*W240*H230mm
Carton size (604010011): L340*W240*H230mm

Package materials			Packing Spec		
Items	P/N	QTY	PCS/Bag	Bag/Box	PCS/Box
Carton	604010011	1	50	30	1500
PE bag	840000511	30			
EPE		6			
Drying agent	708040129	30			



GENERAL TOLERANCE			
XX.	±0.40		
X.	±0.25	X.	±2.0°
.X	±0.13	.X°	±1.0°
.XX	±0.05	.XX°	±0.5°

SCALE:	1:1
UNIT:	mm
SIZE:	A4

DRAWN	丁第斌	DATE	05/06'23
CHECK		DATE	
APPROVE		DATE	

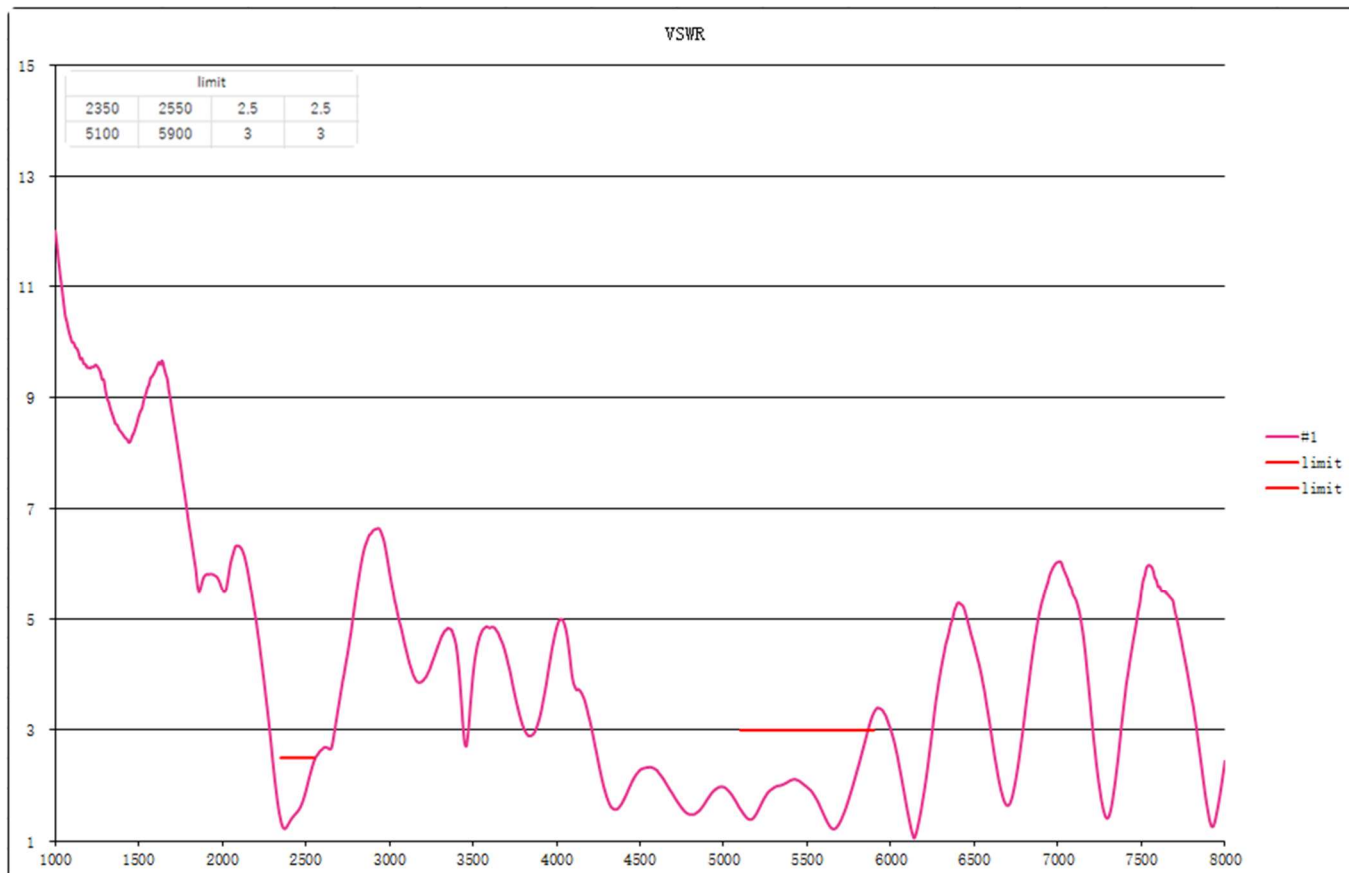
DWG. NO.	551-U450-01
PARTS NO. (INTENDED USE)	81800U450

TITLE	2367407-1 Package Standard
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REV.	A
SHEET	1/1

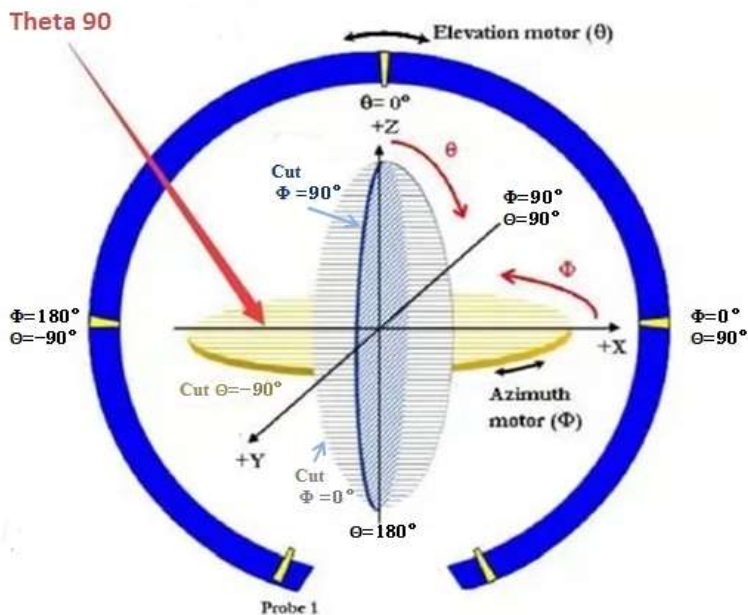
5. Antenna test result/测试结果

5.1 VSWR/驻波比

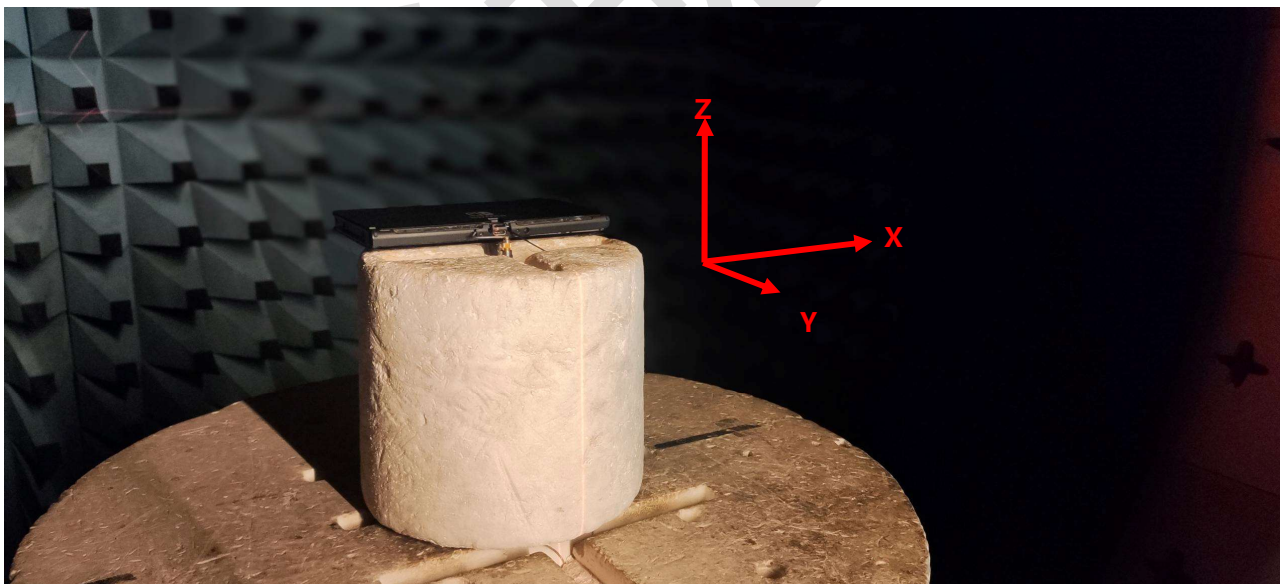


5.2 The gain and total efficiency test/增益和效率测试

5.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



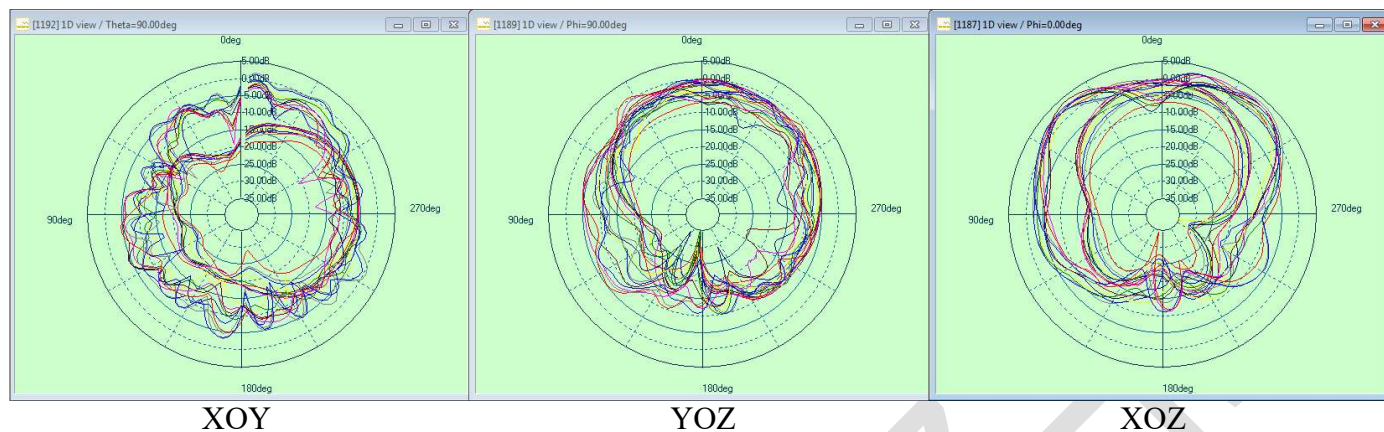
The production test position/天线测试放置位置

5.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果
2350MHZ -2550MHZ/5100MHZ -5900MHZ

Frequency	Efficiency.%	Gain.dBi	Frequency	Efficiency.%	Gain.dBi
2350	21.21%	-2.01	5100	28.38%	-1.11
2380	20.94%	-1.56	5150	30.35%	-1.11
2400	21.81%	-1.15	5250	27.76%	-2.01
2420	24.36%	-0.85	5350	22.74%	-2.21
2440	27.27%	-0.41	5450	25.06%	-1.55
2460	28.89%	-0.03	5550	28.76%	-1.35
2480	29.66%	0.25	5650	30.19%	-1.31
2500	32.31%	0.72	5750	27.07%	-1.34
2550	32.07%	0.61	5850	23.10%	-2.65
AVG.	26.50%	-0.49	5900	23.08%	-2.48
			AVG.	26.65%	-1.71

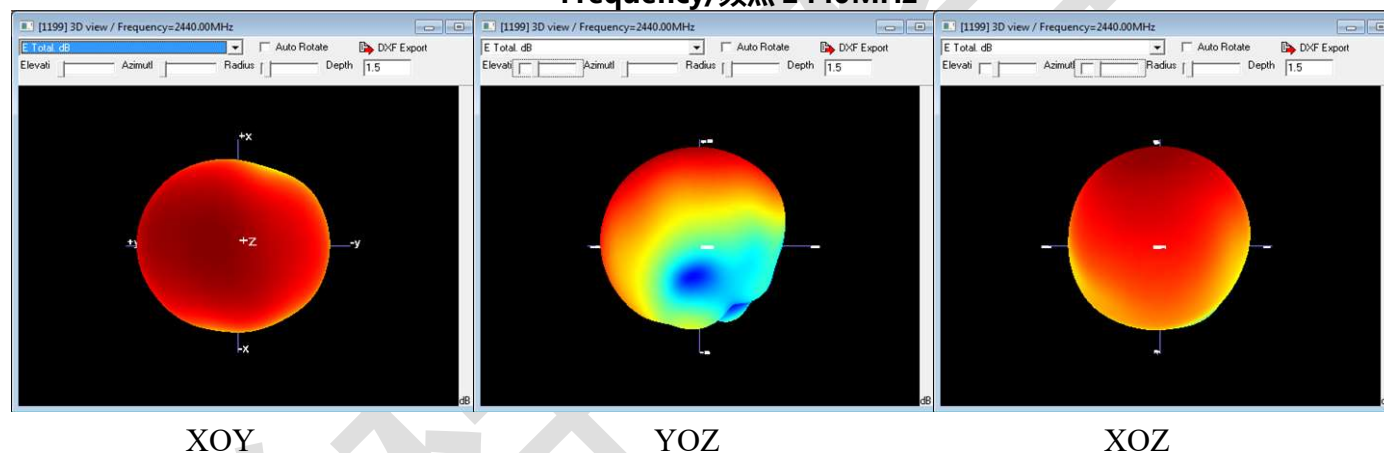
5.2.3 The antenna radiation pattern(2D view)/天线辐射方向图 (2D view)

2350MHz-2550MHz/5100MHz -5900MHz



5.2.4 The antenna radiation pattern(3D view)/天线辐射方向图 (3D view)

Frequency/频点 2440MHz



Frequency/频点 5500MHz

