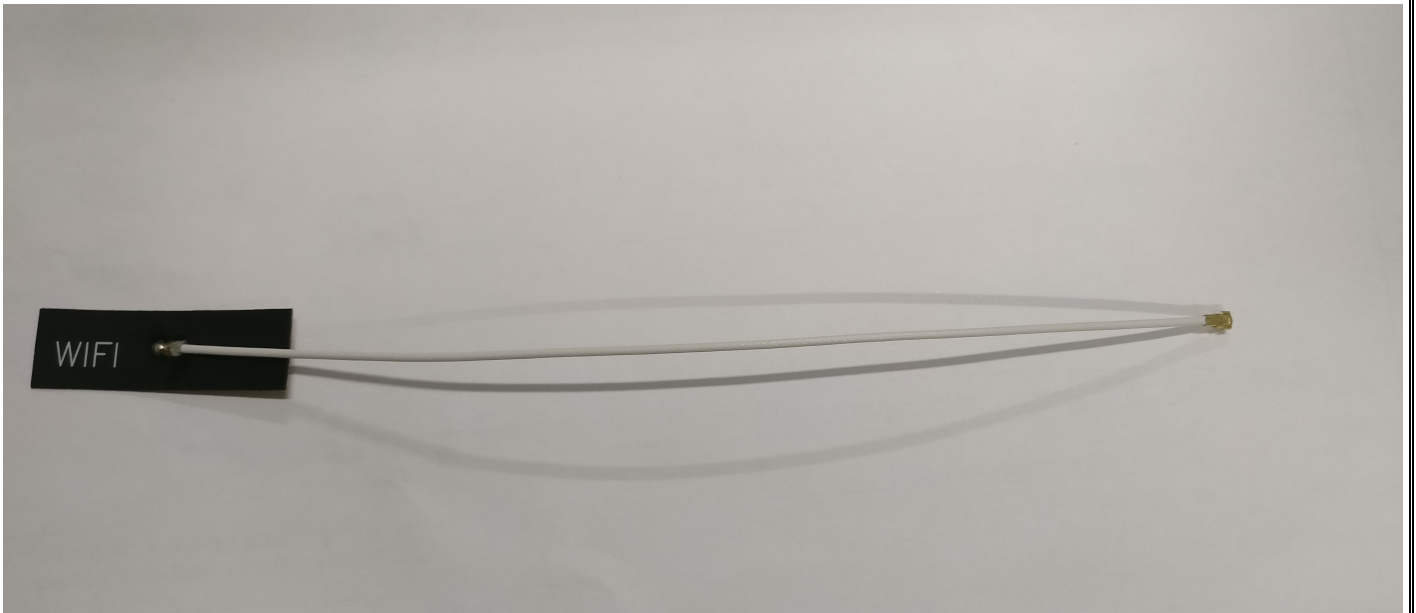


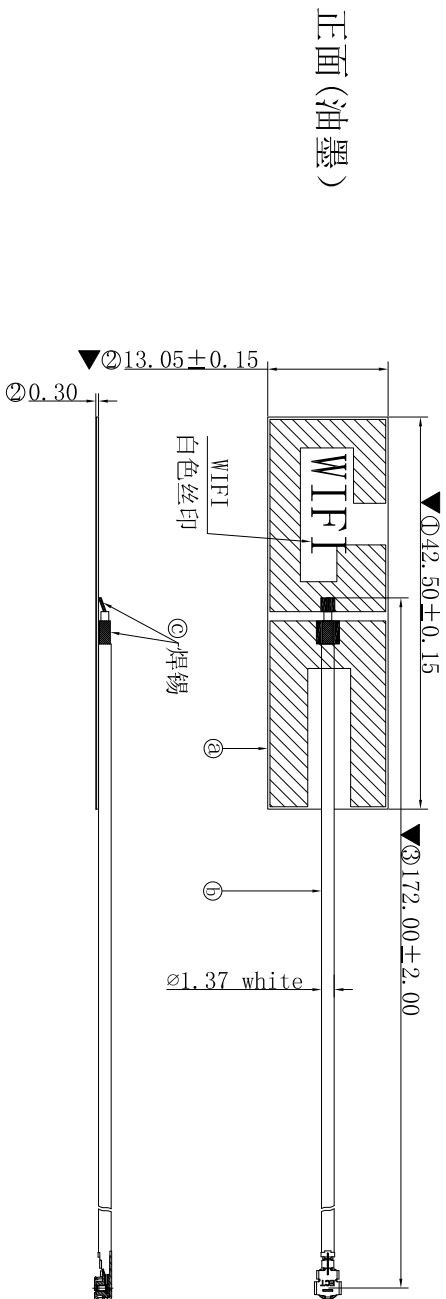
1. Antenna Specification/天线标准

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	2400-2500(MHz) 5150-5850(MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	2400-2500 MHz \leq 2.0 5150-5850 MHz \leq 2.0	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	6.0 (dBi)	
Test condition/测试条件	passive test (无源测试)	
Total Efficiency/无源效率	> 50%	
Mechanical Specification/机械指标		
Antenna type/天线类型	内置天线	
Connector Type/连接器类型	USS RF 189	
RF Cable Type/射频线型号	OD1.37	
Connector Torque Test/连接器扭力	N/A	
Connector Pull Test/连接器拉力	\geq 2.0Kgf	
Salt Spray/盐雾测试	48 (H)	
Environmental Specification /环境指标		
Operating temp/工作温度	-40°C ~ +70°C	
Storage temp/存储温度	-40°C ~ +70°C	

2. Antenna Picture/天线图片

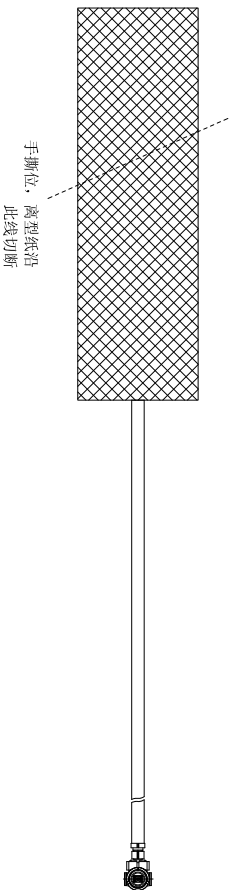


REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECNxxxxxxx	初版发行	12/05'19	梁兑泉	丁第斌	张英杰



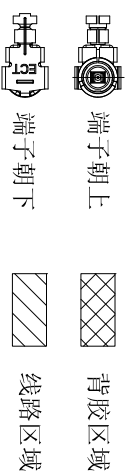
正面(油墨)

反面(背胶)



说明:

1. 测试要求: VSWR测试全检, 矩阵测试; 频率范围: 2400-2500 ≤ 2.0 5150-5850 ≤ 2.0 。
2. 允许最大毛边0.05MAX。
3. 焊接不能虚焊、假焊, 焊点须饱满, 屏蔽层不能有烫伤。
4. 标有“▼”为QC重点检测尺寸。
5. 符合我司ROHS及相关可靠性测试等相关要求。



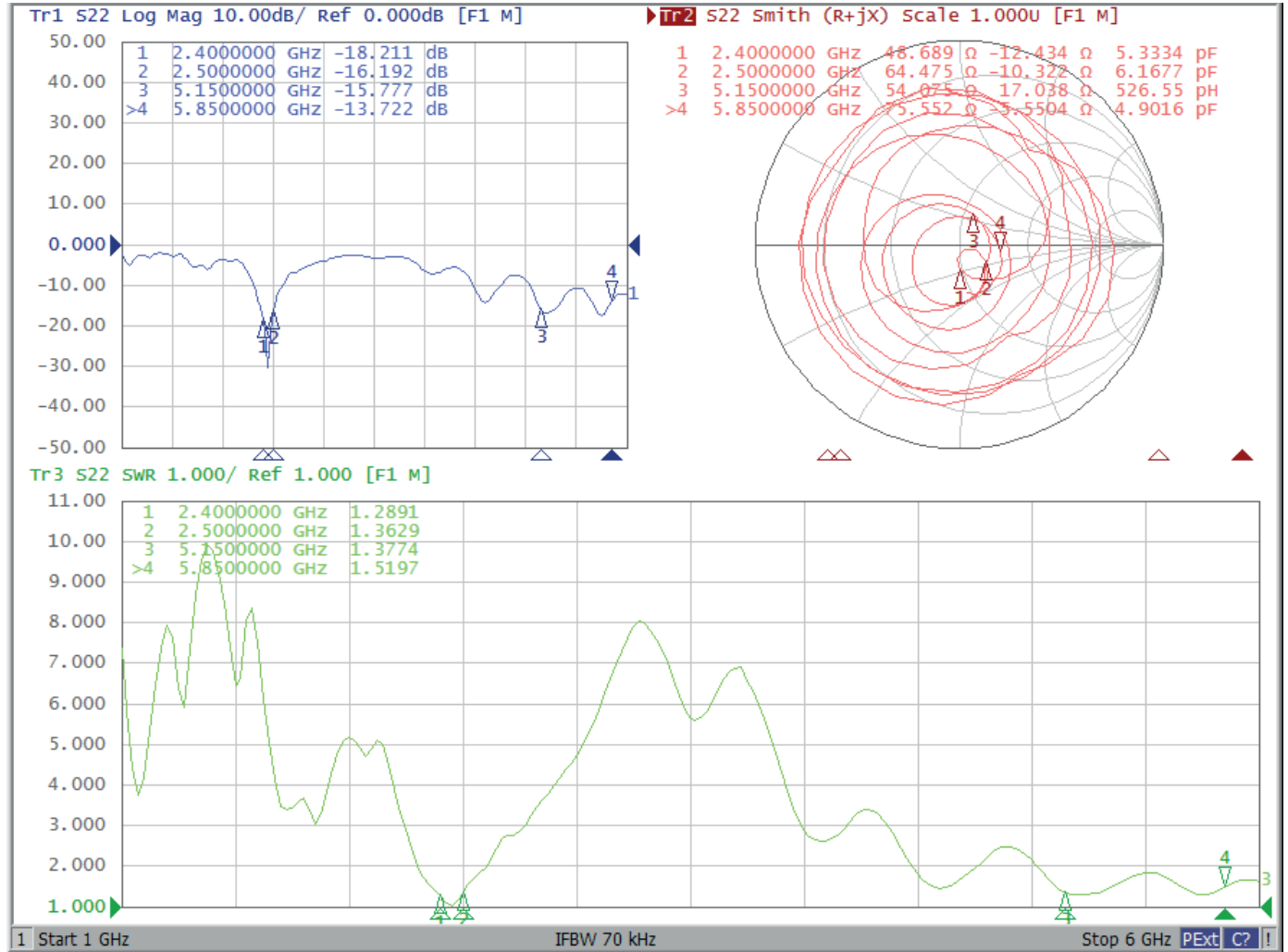
GENERAL TOLERANCE		SCALE:	DRAWN:	DATE:	DWG. NO:	TITLE:	REV.
.XXX ± 0.05		1:1	梁兑泉	12/05'19	600-U367-01	ANT_IN_2.4-5.8G	X1
.XX ± 0.10		UNIT:	CHECK:	DATE:	PARTS NO. (INTENDED USE):	_42.50*13.05_	SHEET:
.X ± 0.2		mm	APPROVE:	DATE:	81800L67	FPC137WTG1G	1/1
		SIZE:					
		A4					



ELECTRIC
CONNECTOR
TECHNOLOGY

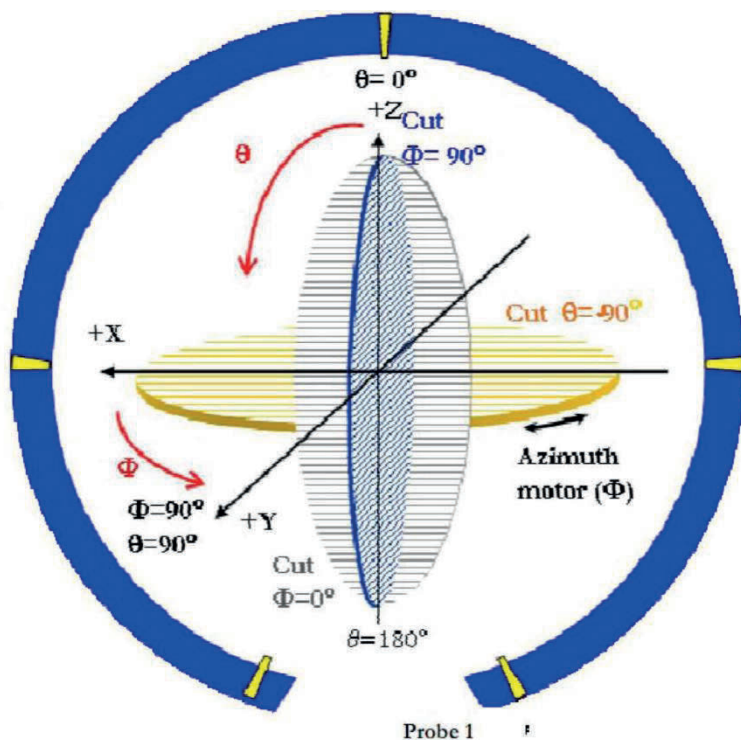
4. Antenna test result/测试结果

4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比

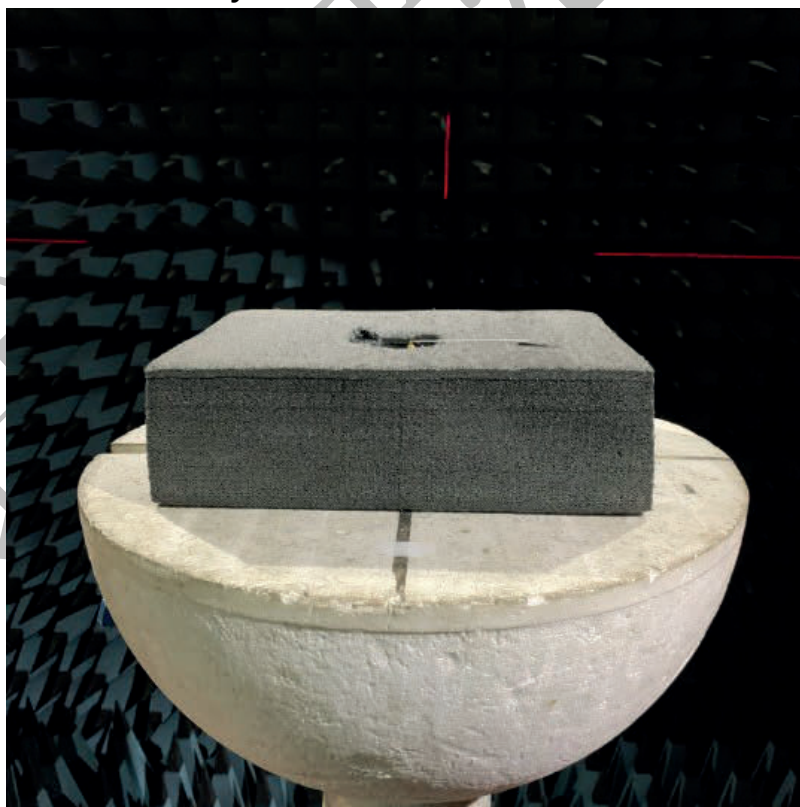


4.2 The gain and total efficiency test/增益和效率测试

4.2.1 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

4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

2400MHz-2500MHz

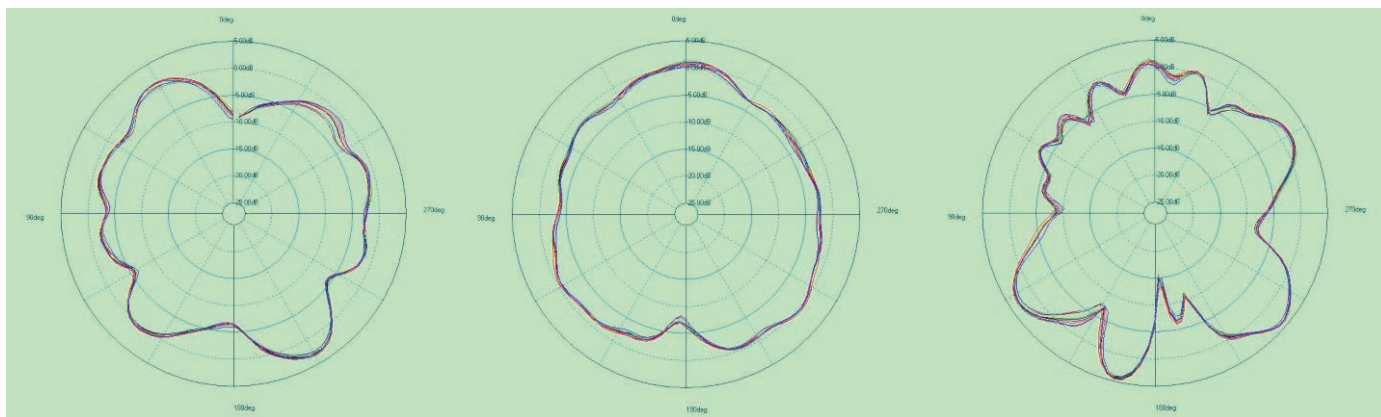
Frequency	Efficiency(%)	Gain (dBi)
2400MHz	69%	4.26
2410MHz	63%	3.98
2420MHz	66%	4.04
2430MHz	70%	4.12
2440MHz	71%	4.21
2450MHz	70%	4.31
2460MHz	70%	4.47
2470MHz	71%	4.59
2480MHz	73%	4.61
2490MHz	72%	4.37
2500MHz	69%	4.05
AVG	69%	4.27

5150MHz-5850MHz

Frequency	Efficiency(%)	Gain (dBi)
5150MHz	59%	5.95
5200MHz	56%	5.33
5250MHz	54%	5.39
5300MHz	51%	5.00
5350MHz	51%	5.10
5400MHz	52%	4.68
5450MHz	48%	4.21
5500MHz	46%	4.13
5550MHz	47%	4.35
5600MHz	50%	4.74
5650MHz	51%	5.01
5700MHz	52%	5.71
5750MHz	58%	6.33
5800MHz	55%	6.22
5850MHz	48%	5.81
AVG	52%	5.20

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

2400-2500MHz

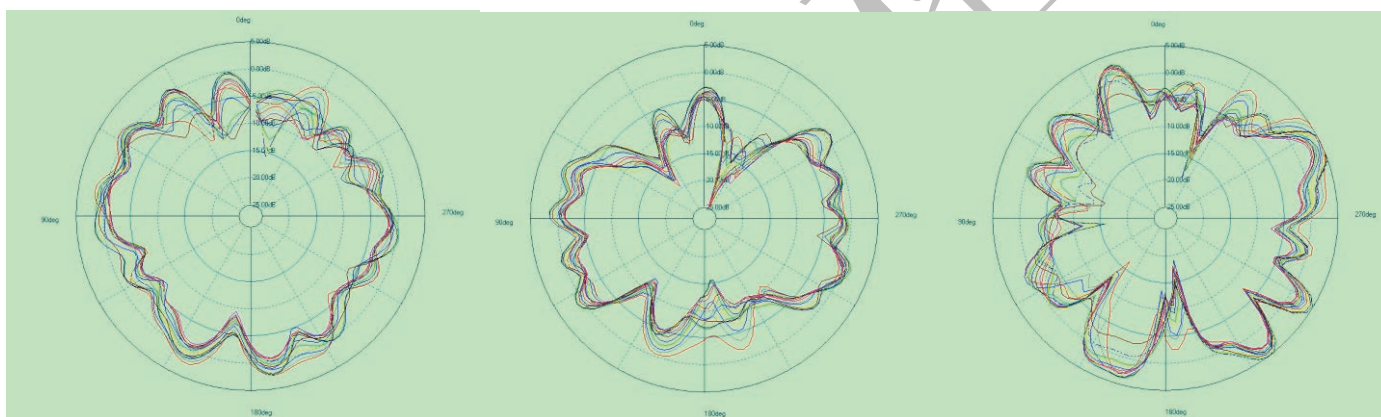


XOY

YOZ

XOZ

5150-5850MHz



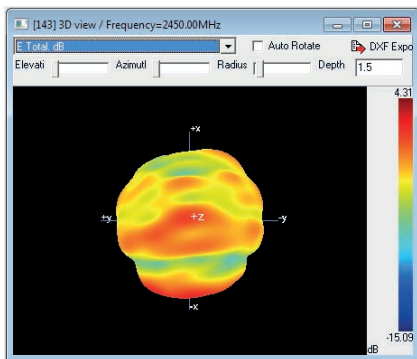
XOY

YOZ

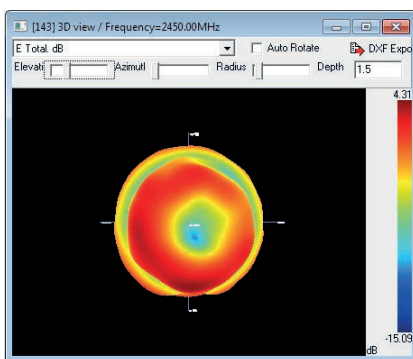
XOZ

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

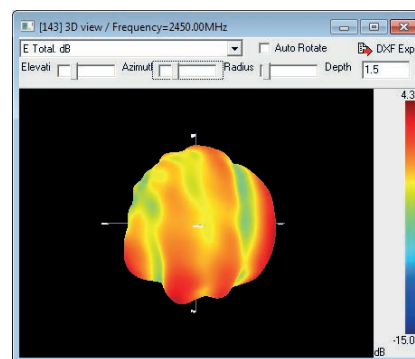
Frequency/频点 2450MHz



XOY

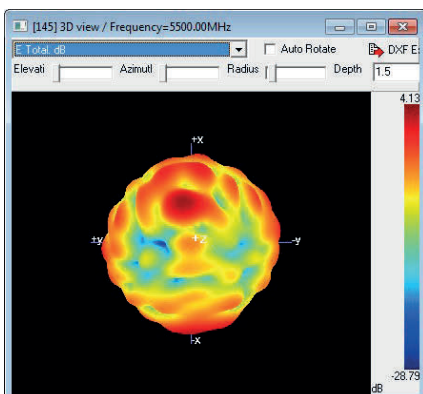


YOZ

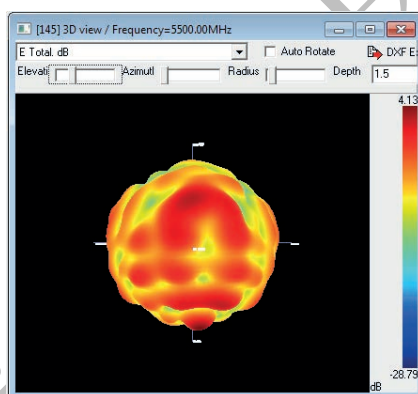


XOZ

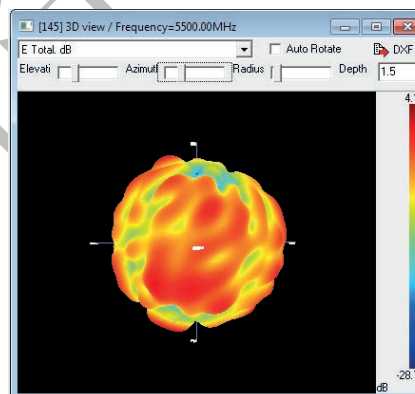
Frequency/频点 5500MHz



XOY



YOZ



XOZ