

Antenna Specification

Specifications

Summary

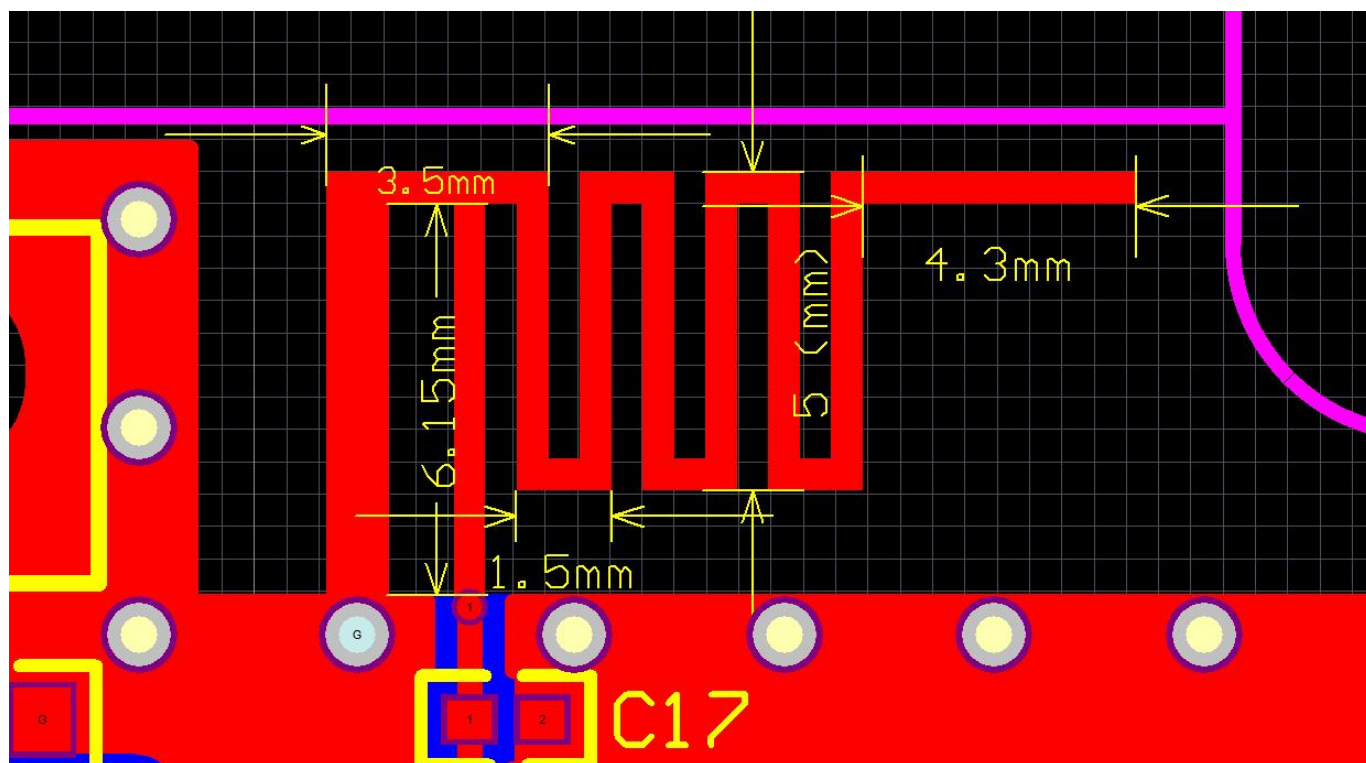
ITEM	SPEC.	
Model Name	IBM 2.4 GHz	
Center Frequency	2402MHz	-3.01dBi
	2441 MHz	-2.89dBi
	2480 MHz	-3.99dBi
MAX. GAIN	-2.89dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Ant Model	PCB Ant	

Manufacturer:Guangzhou Xinhui Electronics Co., Ltd

Address:1st Floor, No.1 Xiangshan Xin Zhuang Street, Huadong Town, Huadu District, Guangzhou, China

Model :TX-030CT

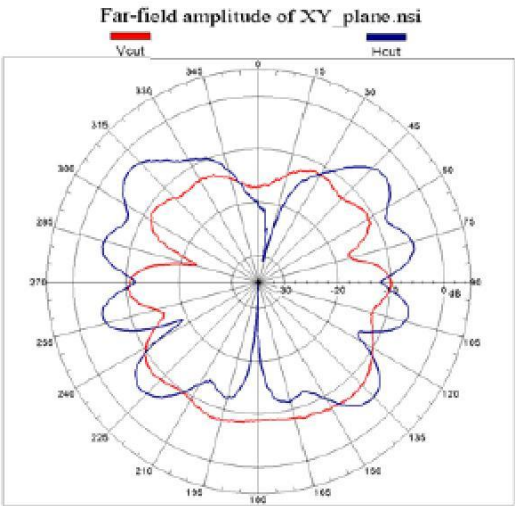
Antenna Photo & Length(mm)



1. Main antenna : 2402 MHz

1.1 Horizontal

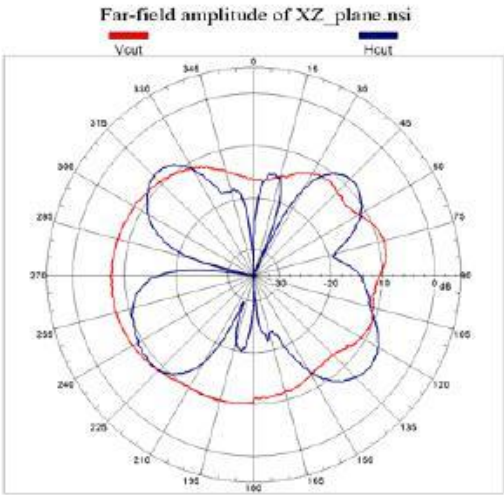
◆XY-plane



	Peak gain	Avg. gain
H cut	-3.01	-8.82
V cut	-7.19	-11.29
Total	-2.52	-6.53

1.2 Vertical

◆XZ-plane

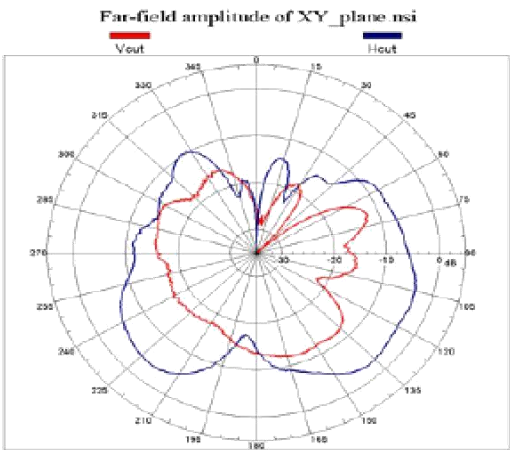


	Peak gain	Avg. gain
H cut	-6.44	-13.24
V cut	-7.34	-10.57
Total	-5.38	-8.35

2. Main antenna : 2441 MHz

2.1 Horizontal

◆XY-plane

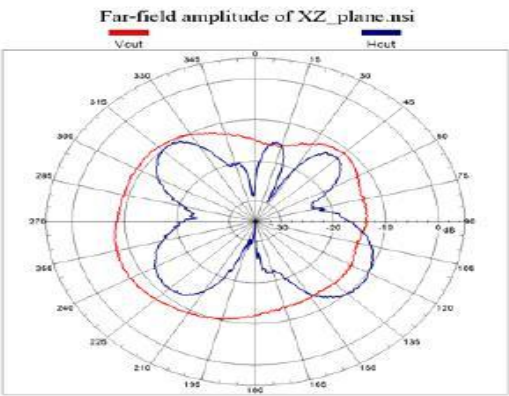


Unit : dBi

	Peak gain	Avg. gain
H cut	-2.89	-8.89
V cut	-11.81	-16.63
Total	-2.36	-8.05

2.2 Vertica

◆XZ-plane

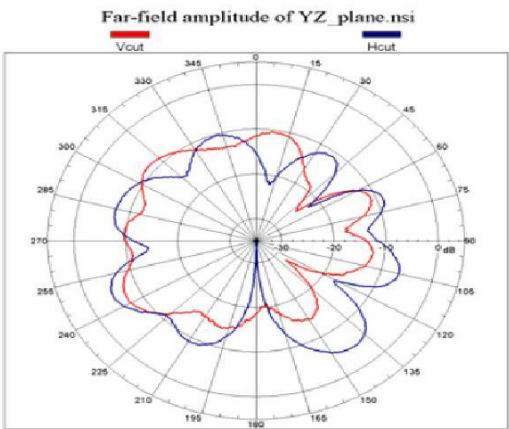


	Peak gain	Avg. gain
H cut	-9.56	-15.85
V cut	-7.29	-11.21
Total	-6.27	-9.66

3. Main antenna : 2480 MHz

3.1 Horizontal

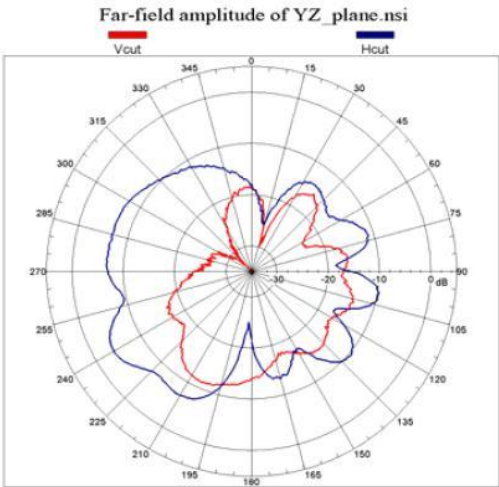
◆YZ-plane



	Peak gain	Avg. gain
H cut	-4.74	-10.75
V cut	-7.09	-13.11
Total	-2.85	-8.49

3.2 Vertical

◆YZ-plane

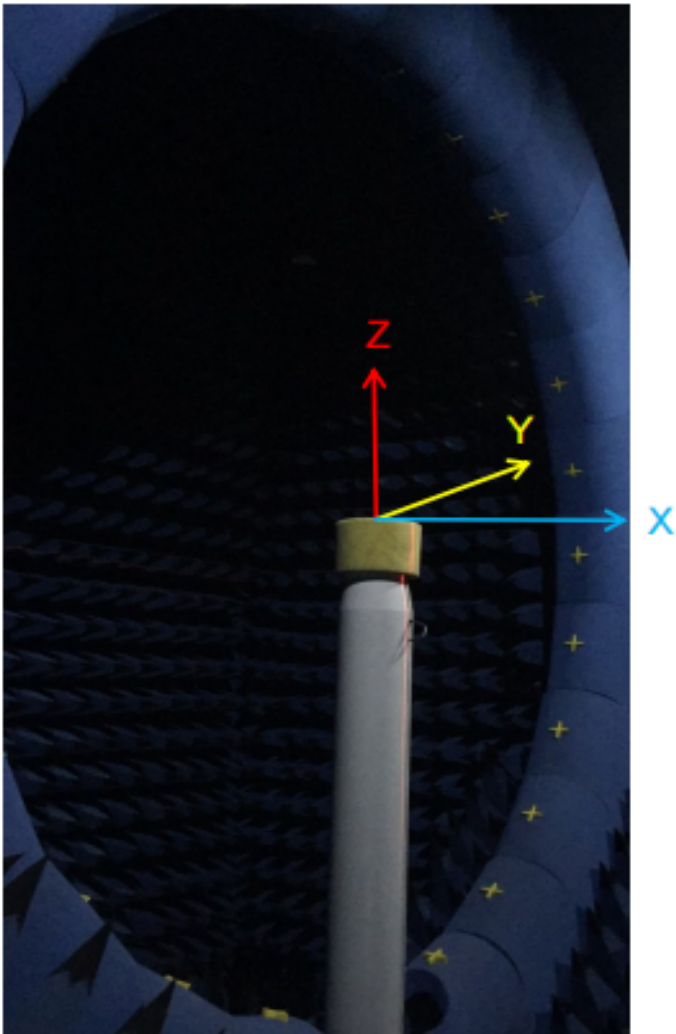


	Peak gain	Avg. gain
H cut	-3.99	-11.25
V cut	-11.31	-18.08
Total	-3.79	-10.11

4. Result

Center Frequency	Maximum Ant Gain	
2402MHz	H	-3.01dBi
	V	-6.44dBi
2441 MHz	H	-2.89dBi
	V	-7.29dBi
2480 MHz	H	-4.74dBi
	V	-3.99 dBi

Test setup



Test system and equipment

	测试项目/Test items	设备/equipment
1: S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2: 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3: 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation mode 2. 天线增益 Gain	1. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D