

ANTENNA REPORT



1. Antenna Specifications

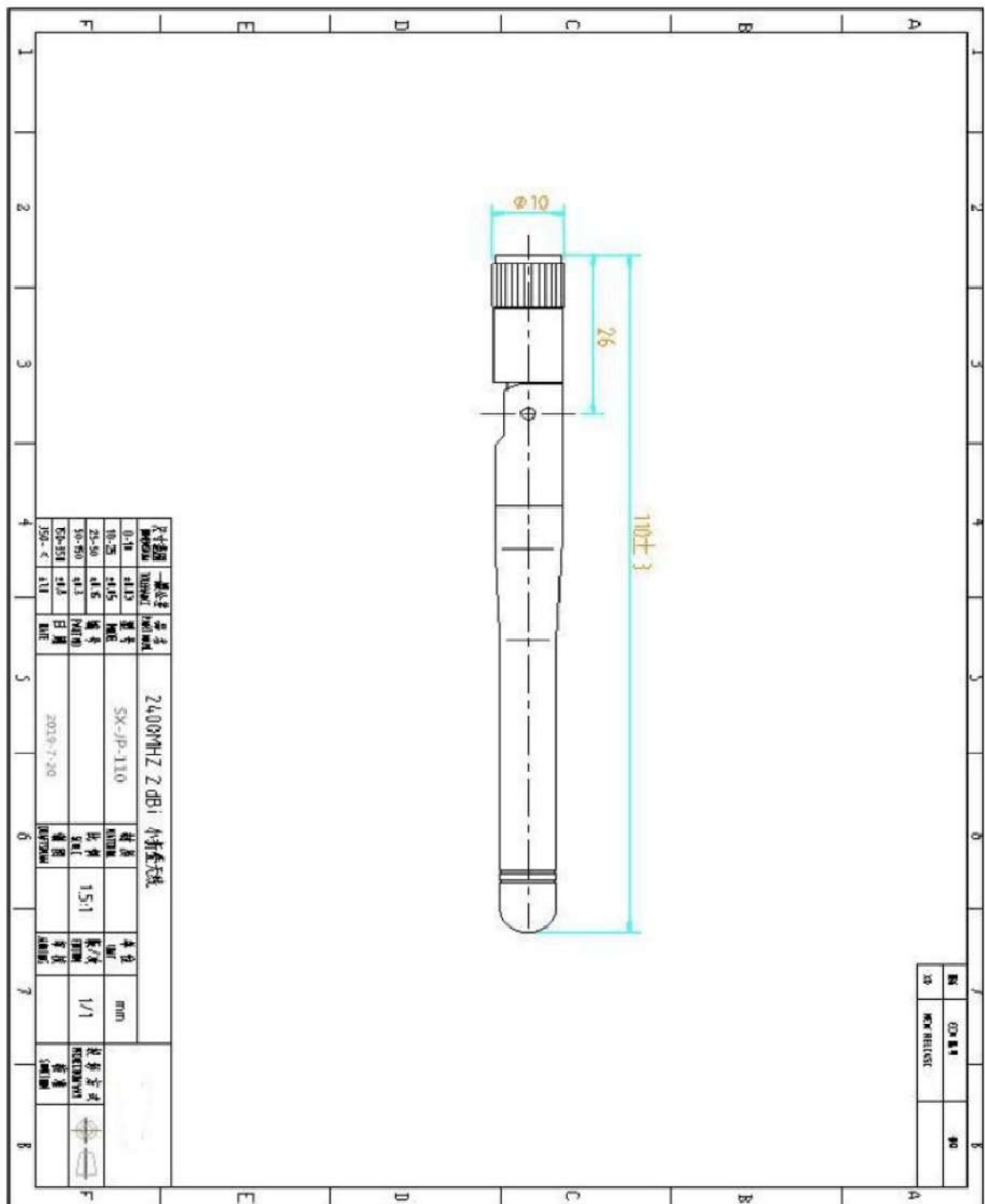
1.1. Electrical Specifications

Electrical Specifications		
Frequency Range	2400MHz~2500MHz	5150MHz~5850MHz
Peak gain	2.0dBi	5.0dBi
VSWR	≤2.0	
Input Impedance	50 Ω	
Polarization	Vertical	
Radiation Patten	Omni Directional	
Maximum Input Power	50W	
Input connector	SMA-K	
Working Temperature	-20°C~+80°C	
Storage Temperature	-40°C~+85°C	
Working Humidity	20~80%	

1.2. Environmental performance test

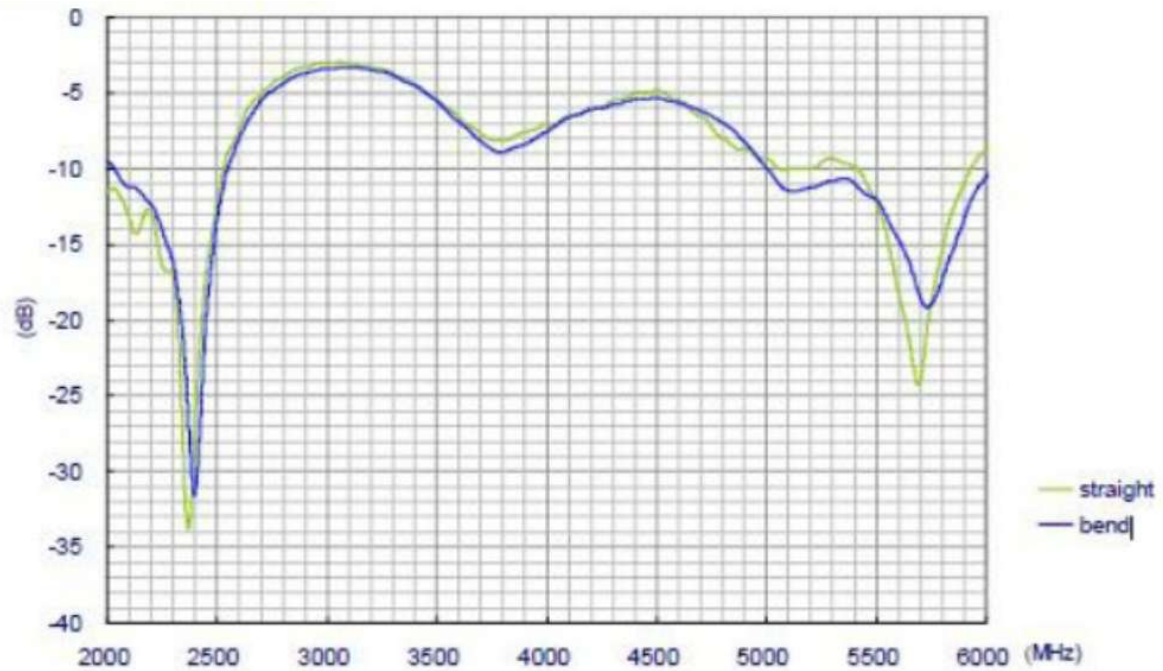
Environmental performance test		
Item	Test Conditions	Specifications
Storage environment	When not specified, the test temperature, humidity, and air pressure are as follows: 1. Temperature is -30°C ~ +80°C 2. Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
High and low temperature test	Perform 5 cycles between 70°C and 40°C, then place under normal conditions for 1-2H and check the appearance quality.	The dimensions should meet the requirements and should meet the mechanical and electrical performance.
Constant humidity and heat resistance test	Relative humidity: 95±3%, test temperature: 40°C. After 2 hours of continuous action, the electrical performance of the test sample shall be measured within 5 minutes after the test sample is taken out. The test sample shall be placed under normal conditions for 1-2 hours to check the appearance quality.	The dimensions should meet the requirements and should meet the mechanical and electrical performance.
Vibration test	Frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep cycle number: 30 times	Electrical and mechanical performance is normal
Drop test	The electrical and mechanical performance is normal after falling freely 3 times from 1M in mutually perpendicular axes.	Electrical and mechanical performance is normal

1.3. Environmental performance test

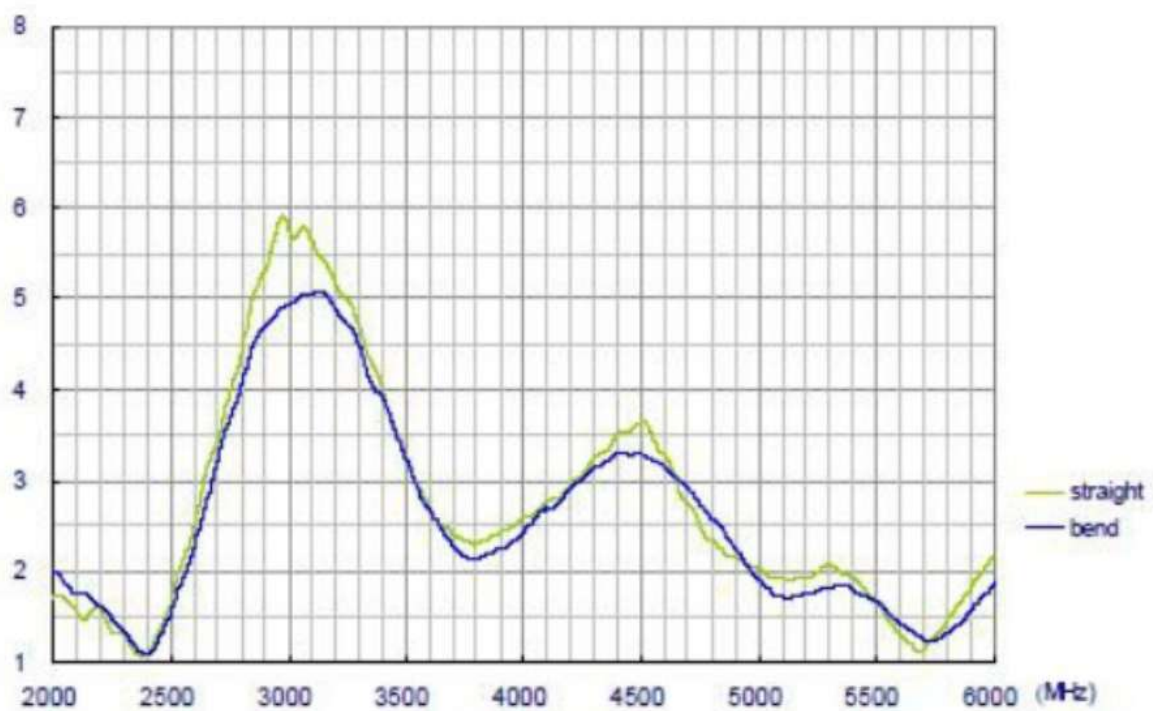


2. Antenna S11 Property

2.1. Return Loss

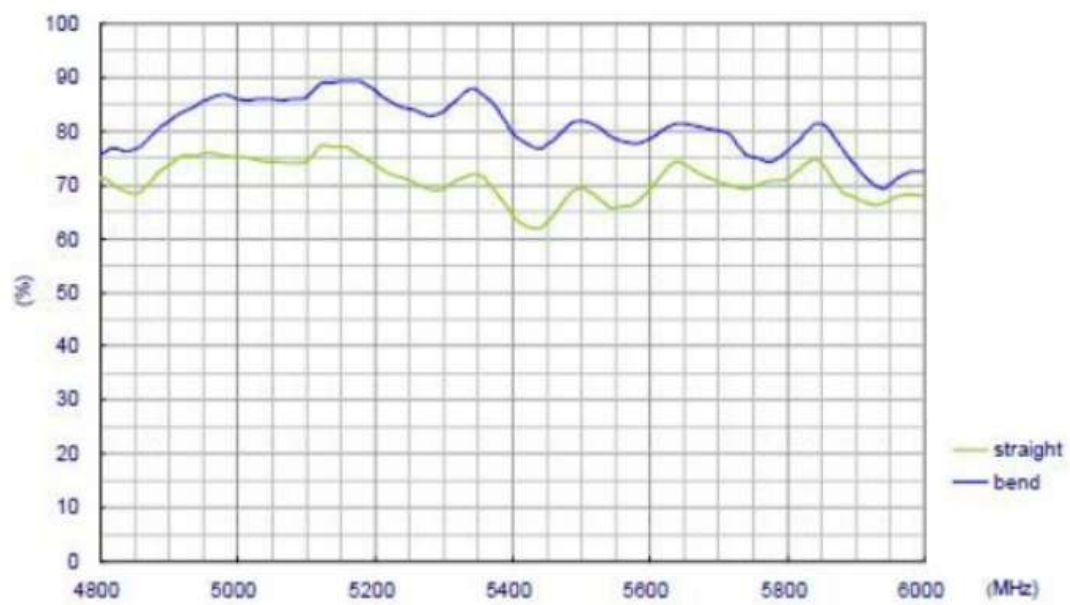
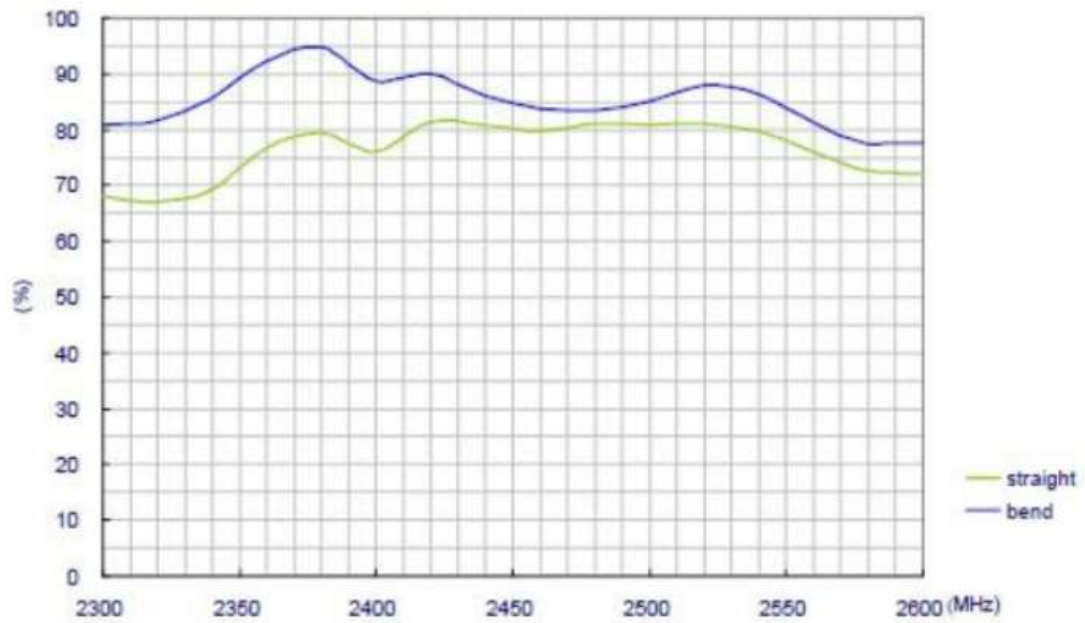


2.2. VSWR

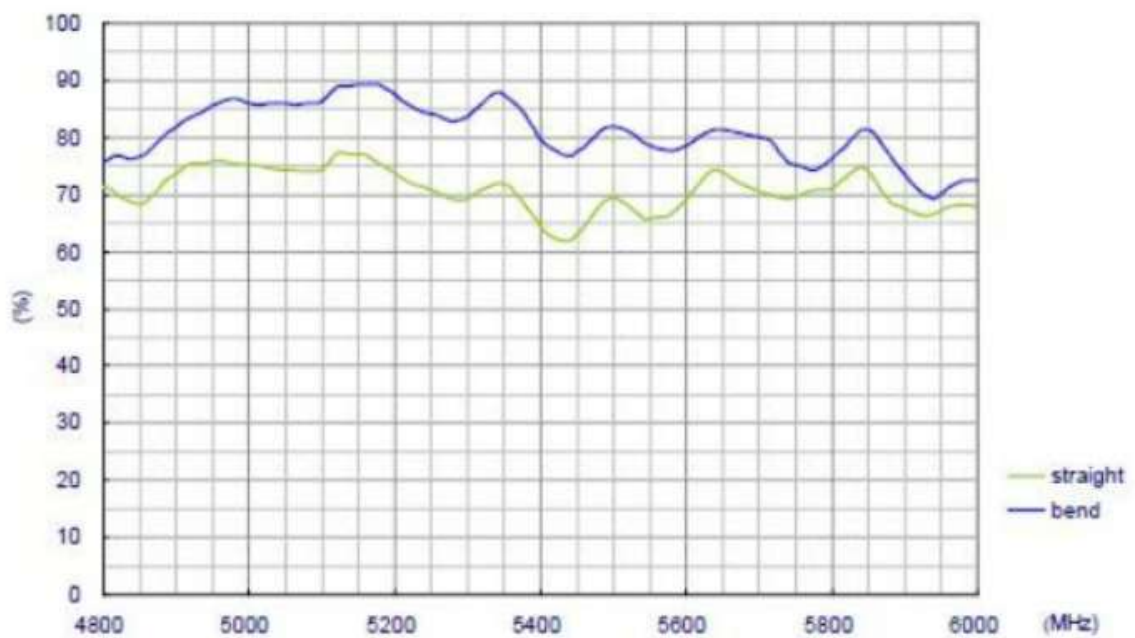
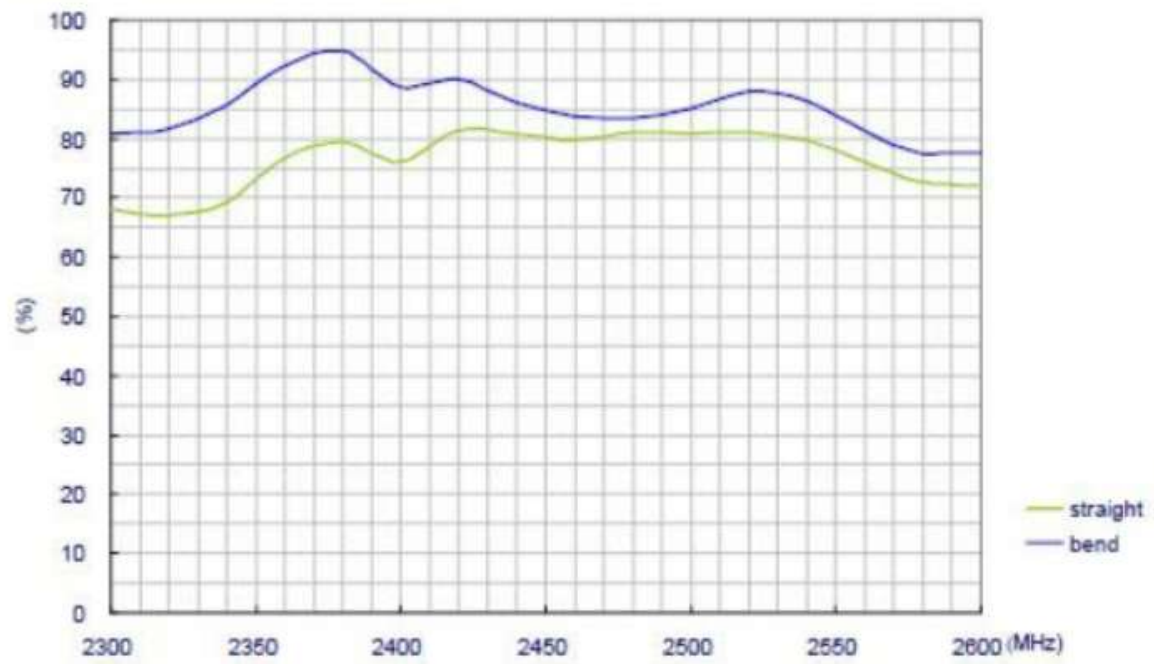


3. 3D Radiation Property

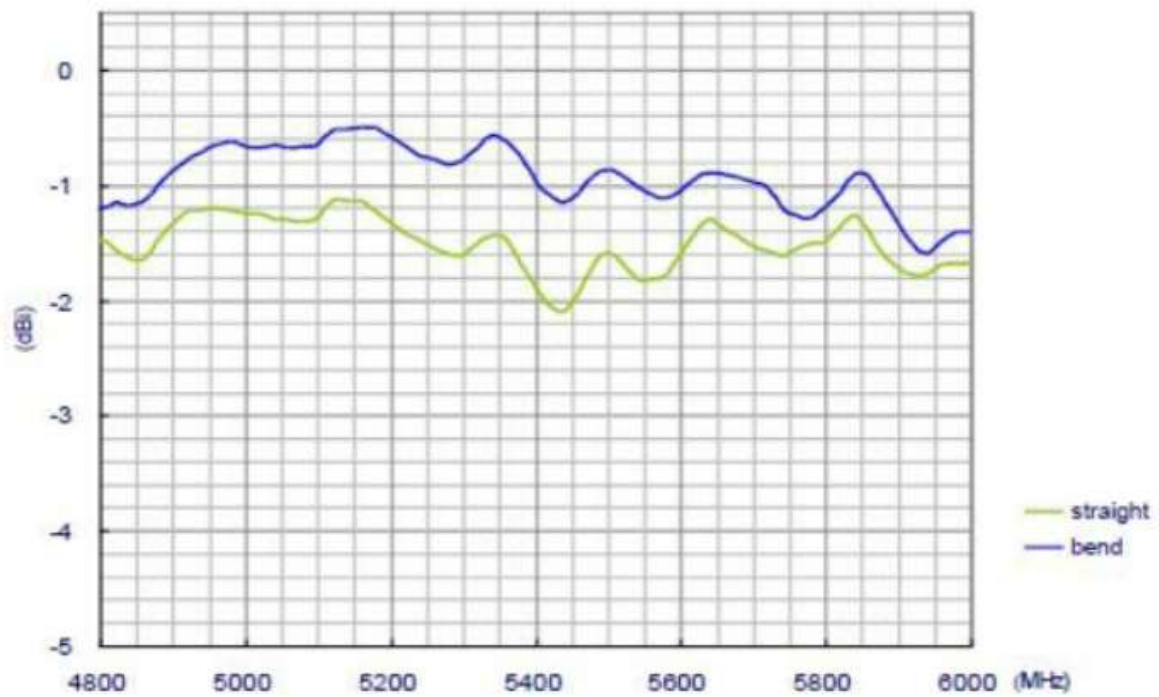
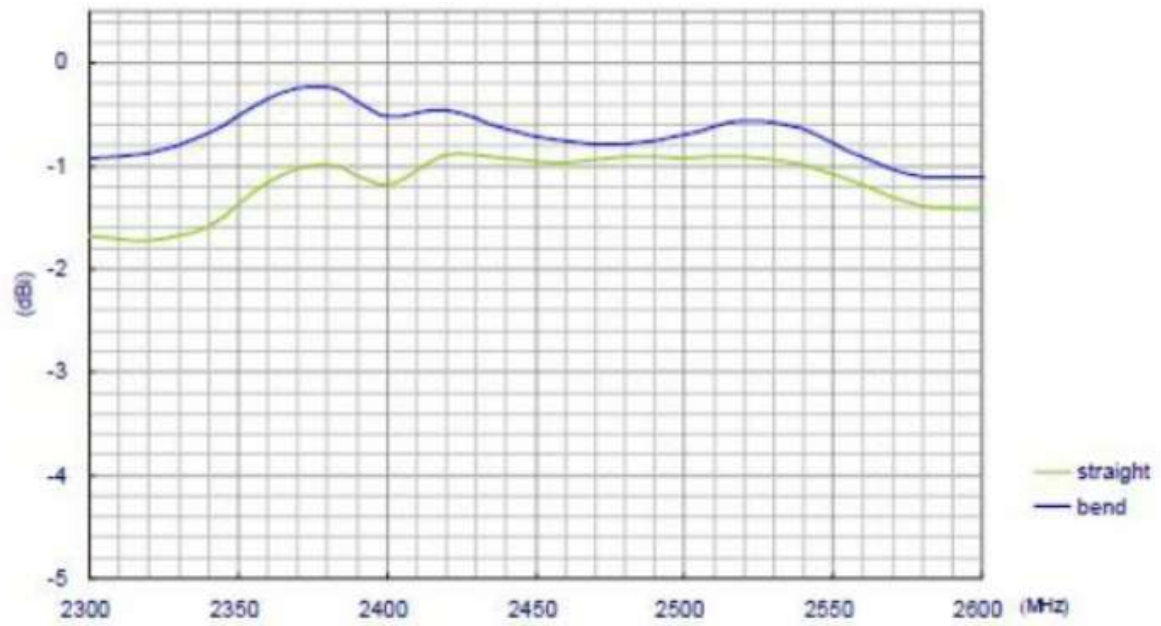
3.1. Radiation Efficiency



3.2. Peak Gain



3.3. Average Gain

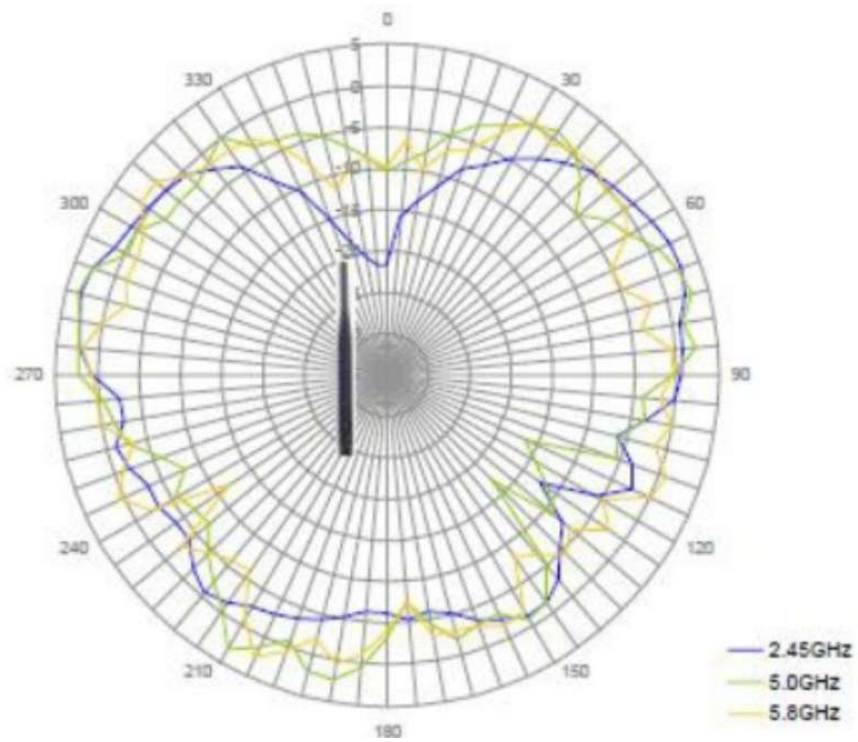


Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2400000000	66.98%	-1.740624096	2400000000	4.223412738
2410000000	65.78%	-1.818843612	2410000000	4.410007793
2420000000	64.95%	-1.87446588	2420000000	4.546801778
2430000000	67.50%	-1.706990162	2430000000	4.477849078
2440000000	67.02%	-1.738079093	2440000000	4.138790333
2450000000	65.77%	-1.820025518	2450000000	4.153333975
2460000000	66.28%	-1.785873353	2460000000	3.970231893
2470000000	68.69%	-1.631279001	2470000000	3.41401879
2480000000	68.49%	-1.643835505	2480000000	3.058968811
2490000000	68.66%	-1.633241003	2490000000	3.141098831
2500000000	69.82%	-1.560223736	2500000000	3.25448129

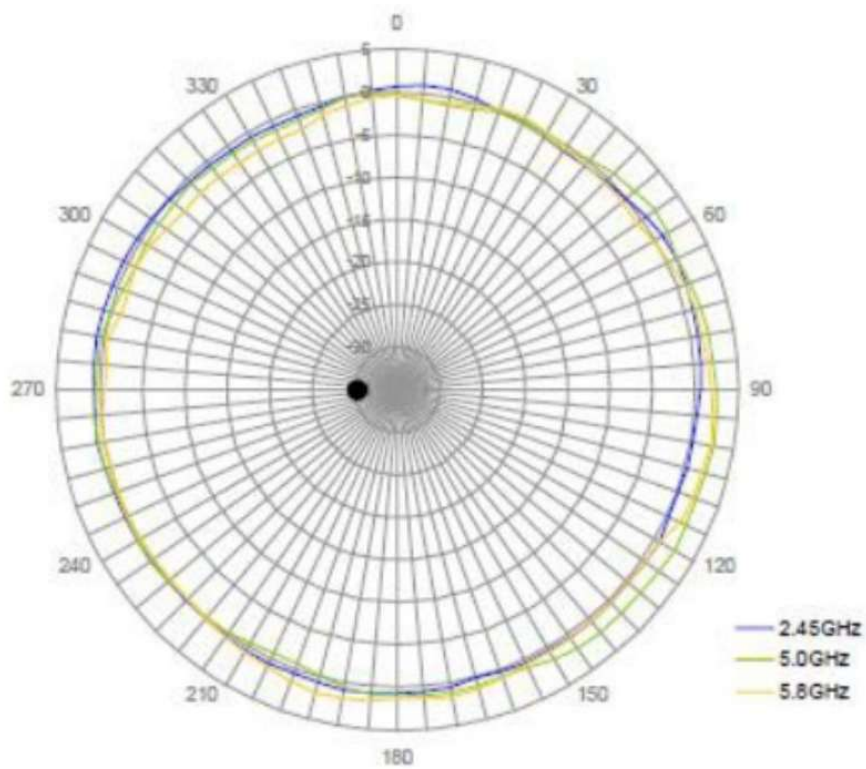
Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
5200000000	65.97%	-1.806375897	5200000000	6.774205475
5230000000	57.07%	-2.436054284	5230000000	6.706278725
5260000000	53.71%	-2.699387692	5260000000	5.850995724
5290000000	49.45%	-3.058096495	5290000000	5.815473375
5320000000	43.83%	-3.582338842	5320000000	5.016589156
5350000000	40.67%	-3.907639704	5350000000	4.149894386
5380000000	41.50%	-3.81991895	5380000000	3.685889261
5410000000	49.14%	-3.085634593	5410000000	3.803894342
5440000000	57.10%	-2.433885656	5440000000	4.305369979
5470000000	57.37%	-2.413025723	5470000000	4.629135228
5500000000	62.92%	-2.012004505	5500000000	5.302142024
5530000000	65.64%	-1.828409599	5530000000	5.83761895
5560000000	64.83%	-1.88257217	5560000000	5.988824548
5590000000	58.77%	-2.308498803	5590000000	5.490754544
5620000000	54.94%	-2.600873494	5620000000	5.014318175
5650000000	52.94%	-2.761833026	5650000000	4.550567105
5680000000	54.03%	-2.673719185	5680000000	4.239952858
5710000000	52.37%	-2.809260826	5710000000	3.763343523
5740000000	54.67%	-2.622848205	5740000000	3.376936232
5770000000	61.28%	-2.127085009	5770000000	4.327945139
5800000000	60.95%	-2.150222297	5800000000	4.204692206

3.4. Radiation Pattern

- E-Plane Radiation of Straight Position



- H-Plane Radiation of Straight Position



产品料号： XXX

产品型号： XXX

一、标签要求：

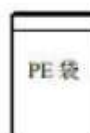
需方	XXX		
供方	XXXXX		
物料编码	XX		
产品型号	XX		
数量/单	XXX PCS	出厂日期	X 年 X 月 X 日
备注/其他			

二、装箱要求：

作业说明：

1. 内包装：

产品 XXpcs 一袋，放入小 PE 袋；



2. 外包装：

XxPCS 一箱；

3. 注意事项：

a. 是否要增设隔板、珍珠棉；

b. 标签的帖附，如 ROHS 等；

