

## 5.8G Omni PVC Antenna



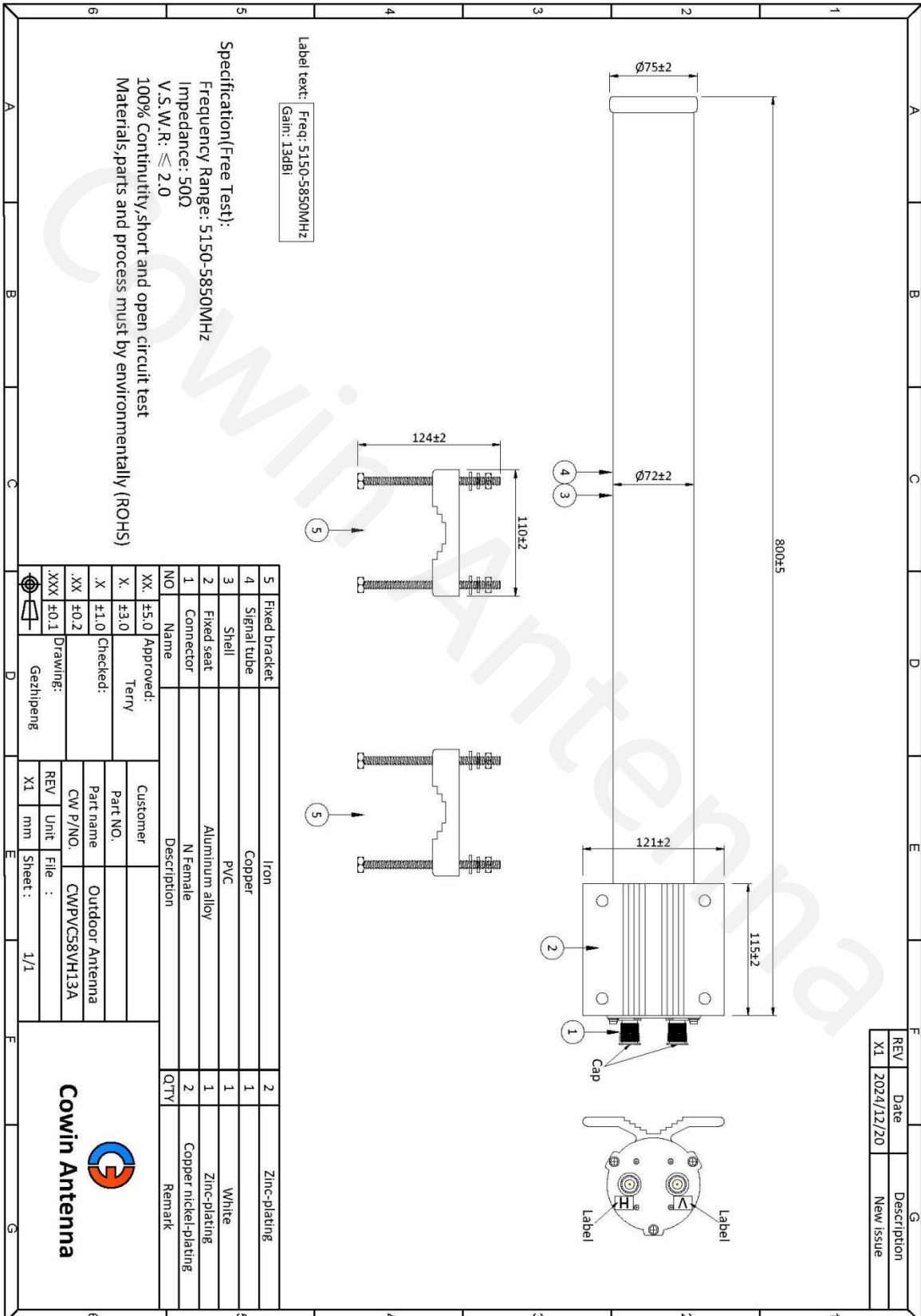
### Electrical Specifications 电性指标

<b>Part Number</b> 料号	<b>CWPVC58VH13A</b>
<b>Frequency Range</b> 频率范围	<b>5150-5850MHz</b>
<b>Bandwidth</b> 带宽	<b>700MHz</b>
<b>Peak Gain</b> 峰值增益	<b>13dBi</b>
<b>Radiation Direction</b> 辐射方向	<b>Omni</b>
<b>Polarization</b> 极化方式	<b>Vertical /Horizontal</b>
<b>Electrical Downtilt</b> 电下倾角	<b>/</b>
<b>Half Power Beamwidths</b> 半功率波瓣宽度	<b>/</b>
<b>First Upper Sidelobe Suppression</b> 第一上旁瓣抑制	<b>/</b>
<b>Impedance</b> 输入阻抗	<b>50Ω</b>
<b>VSWR</b> 电压驻波比	<b>≤ 2.0</b>
<b>Maximum Power</b> 最大功率	<b>50W</b>
<b>Lightning Protection</b> 雷电保护	<b>DC Grounding</b>

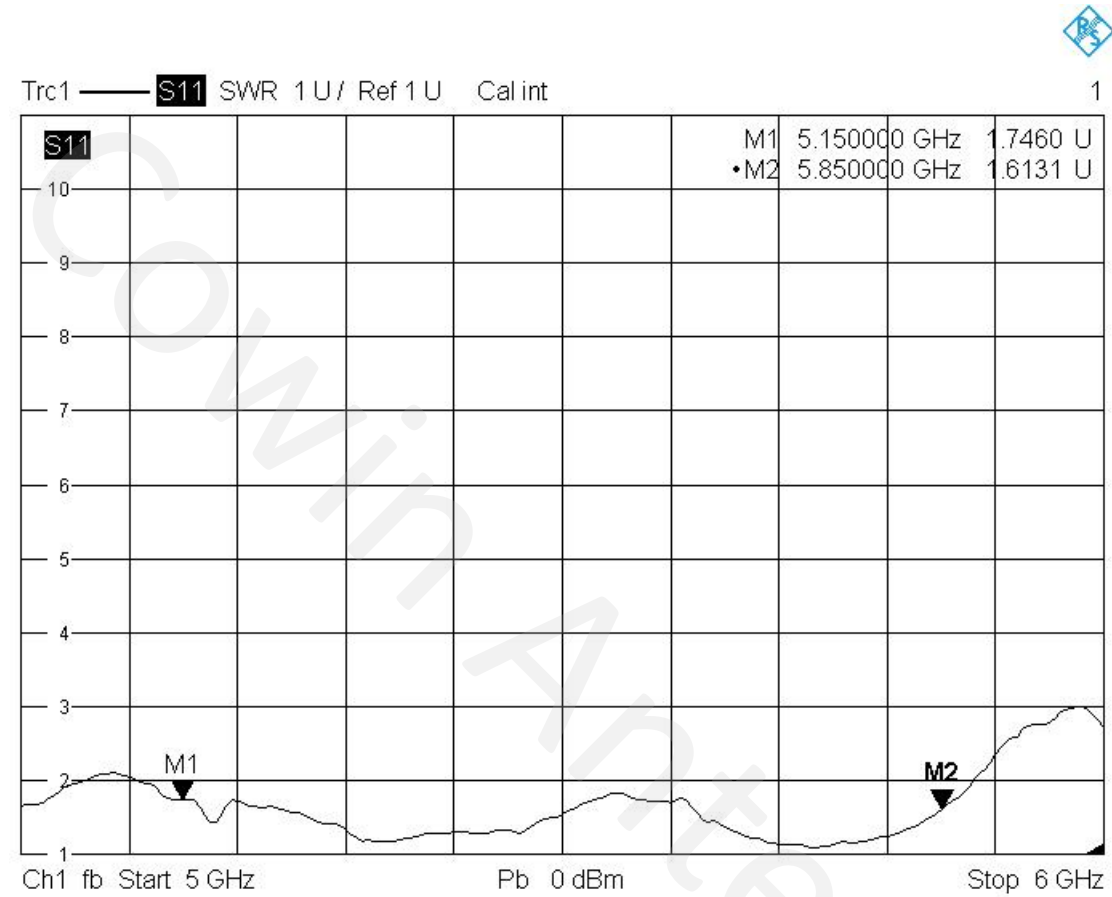
## Mechanical Specifications 机械性能

<b>Connector Type</b> 接头类型	<b>2*N Female</b>
<b>Connector Position</b> 接头位置	<b>Bottom</b>
<b>Cable type</b> 线材类型	<b>/</b>
<b>Antenna Size</b> 天线尺寸	<b>800*72MM</b>
<b>Antenna Weight</b> 天线重量	<b>2.4KG</b>
<b>Radome Material</b> 外罩材料	<b>PVC</b>
<b>Radome Colour</b> 外罩颜色	<b>White</b>
<b>Mechanically Adjustable Tilt Angle</b> 机械可调倾角	<b>/</b>
<b>Temperature Range</b> 温度	<b>-40~80℃</b>
<b>Extreme Wind Speed</b> 极限风速	<b>60m/s</b>
<b>Pole Diameter</b> 抱杆直径	<b>40-90MM</b>
<b>Mounting Method</b> 安装方式	<b>Pole Mount</b>
<b>Mounting Model</b> 安装件型号	<b>CWBLG24VH10A</b>
<b>Environmental Standards</b> 环保标准	<b>ROHS/REACH</b>



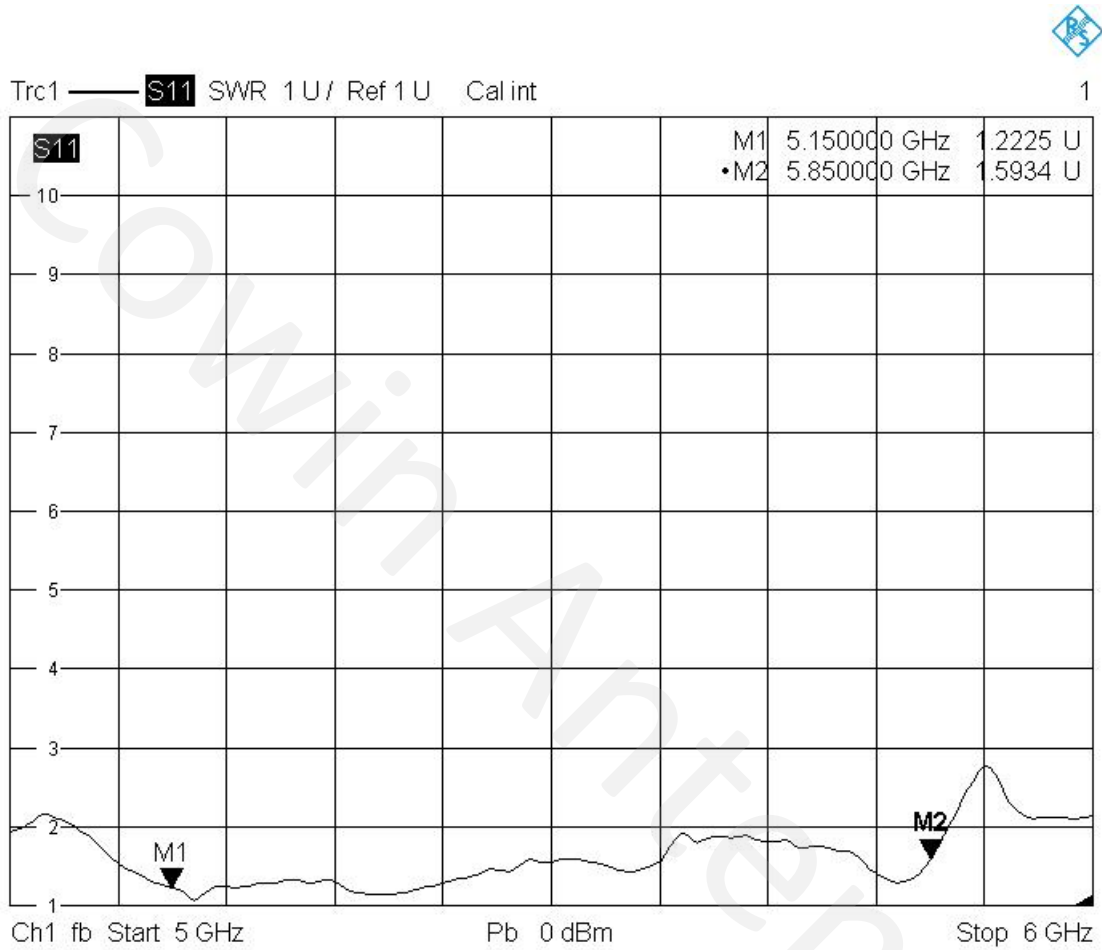


## V.S.W.R (V)



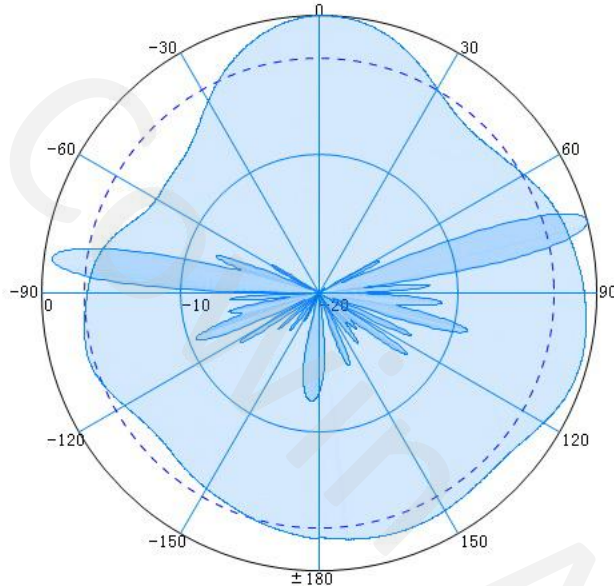
12/21/2024, 11:41 AM

## V.S.W.R (H)



12/21/2024, 11:42 AM

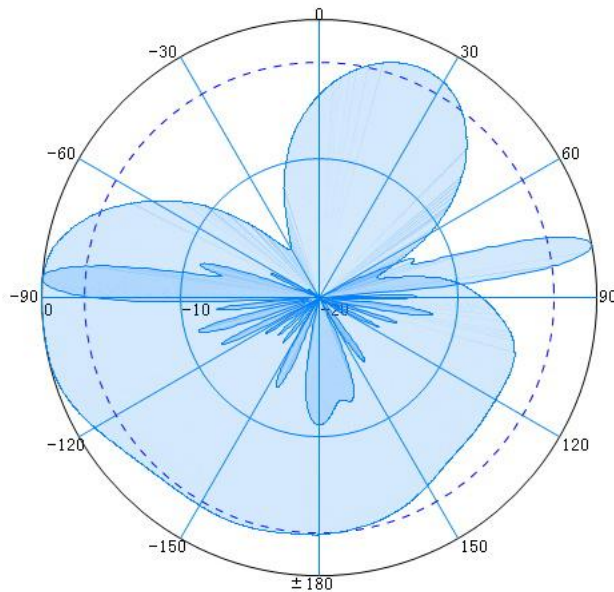
## 2D Radiation Patterns (V)



Test frequency: 5150MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Horizontal  
 Peak level: -28.54dB  
 3dB width: 7.72°  
 Pattern roundness: 28.61

Test frequency: 5150MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Vertical  
 Peak level: -39.58dB  
 3dB width: 54.93°  
 Pattern roundness: 3.71

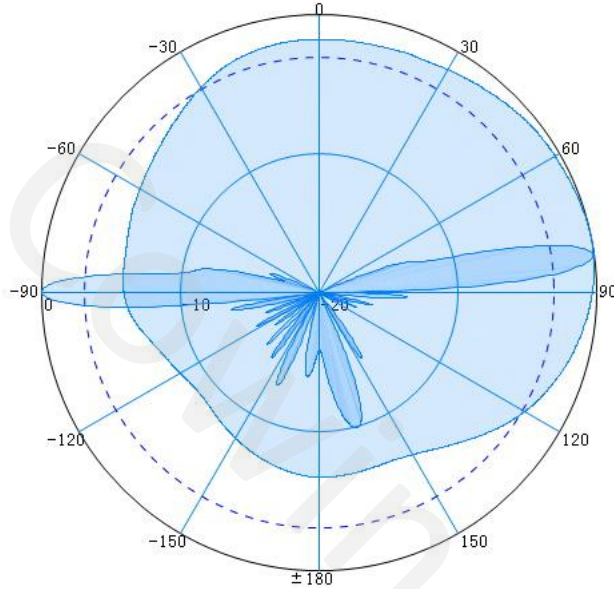
Gain: 12.16dBi



Test frequency: 5350MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Vertical  
 Peak level: -39.23dB  
 3dB width: 113.46°  
 Pattern roundness: 10.61

Test frequency: 5350MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Horizontal  
 Peak level: -22.90dB  
 3dB width: 7.36°  
 Pattern roundness: 28.75

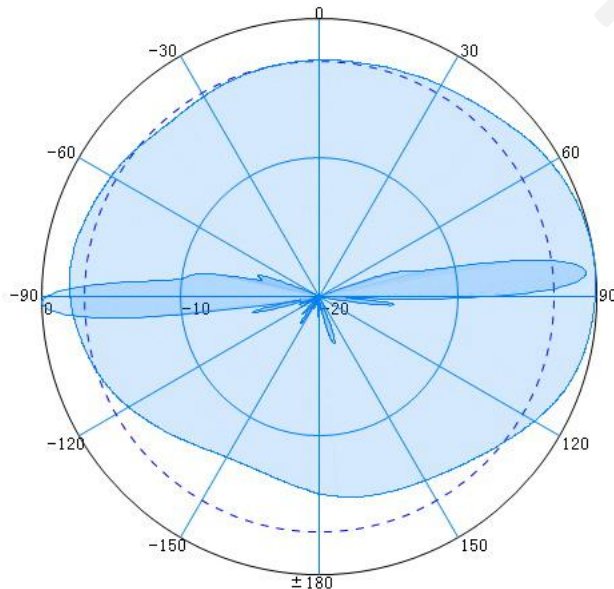
Gain: 12.93dBi



Test frequency: 5550MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -28.92dB  
 3dB width: 6.94°  
 Pattern roundness: 37.28

Test frequency: 5550MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -35.68dB  
 3dB width: 151.35°  
 Pattern roundness: 4.46

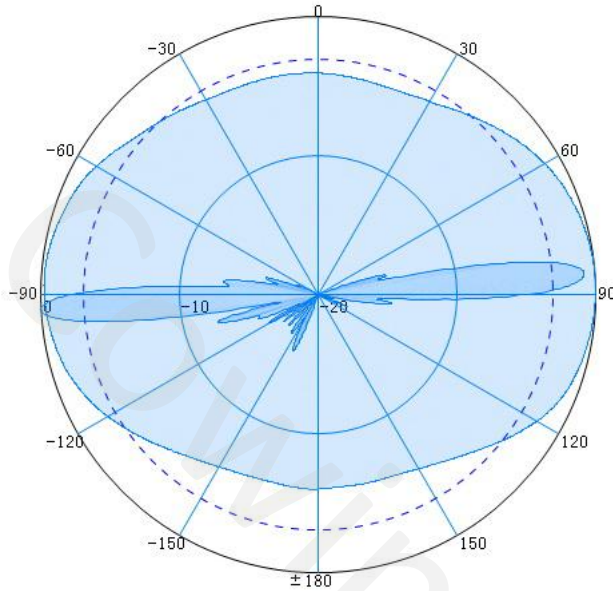
Gain: 12.26dBi



Test frequency: 5720MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -30.07dB  
 3dB width: 7.35°  
 Pattern roundness: 25.13

Test frequency: 5720MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -33.22dB  
 3dB width: 129.71°  
 Pattern roundness: 3.52

Gain: 12.97dBi

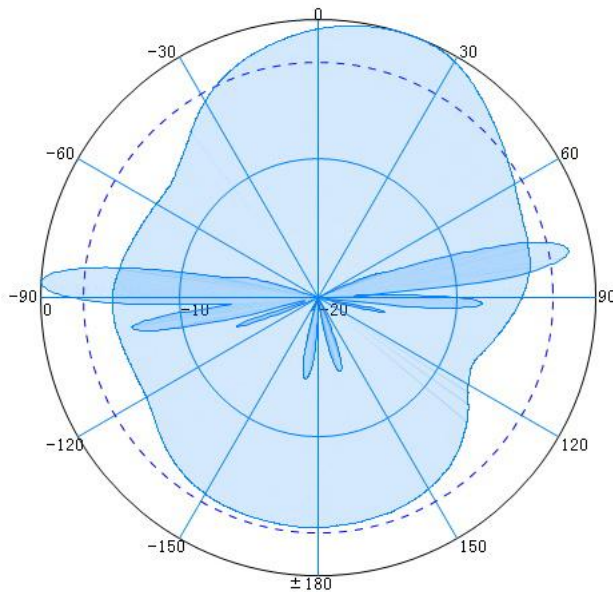


Test frequency: 5850MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -23.93dB  
 3dB width: 6.95°  
 Pattern roundness: 32.62

Test frequency: 5850MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -27.02dB  
 3dB width: 86.42°  
 Pattern roundness: 3.14

Gain: 12.77dBi

## 2D Radiation Patterns (H)

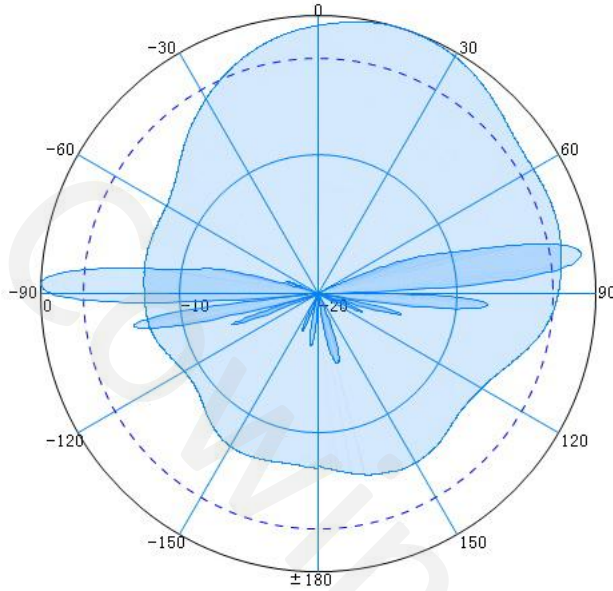


Test frequency: 5150MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -30.70dB  
 3dB width: 7.61°  
 Pattern roundness: 34.36

Test frequency: 5150MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -40.27dB  
 3dB width: 77.88°  
 Pattern roundness: 4.14

Gain: 12.43dBi

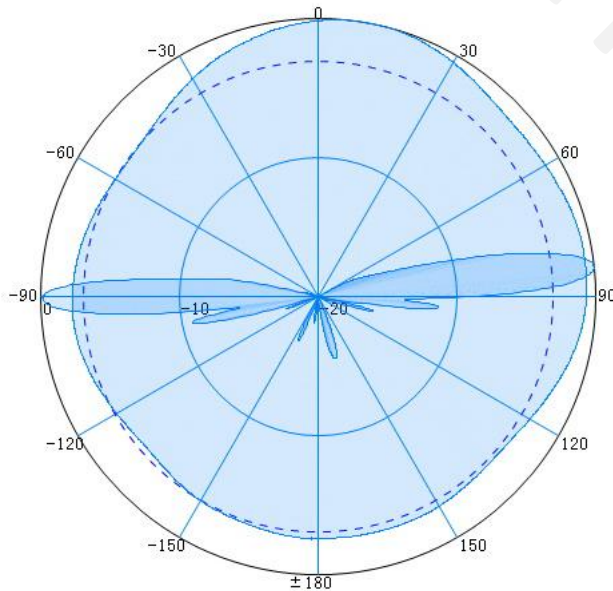




Test frequency: 5350MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -31.46dB  
 3dB width: 118.18°  
 Pattern roundness: 5.10

Test frequency: 5350MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -25.18dB  
 3dB width: 7.30°  
 Pattern roundness: 35.67

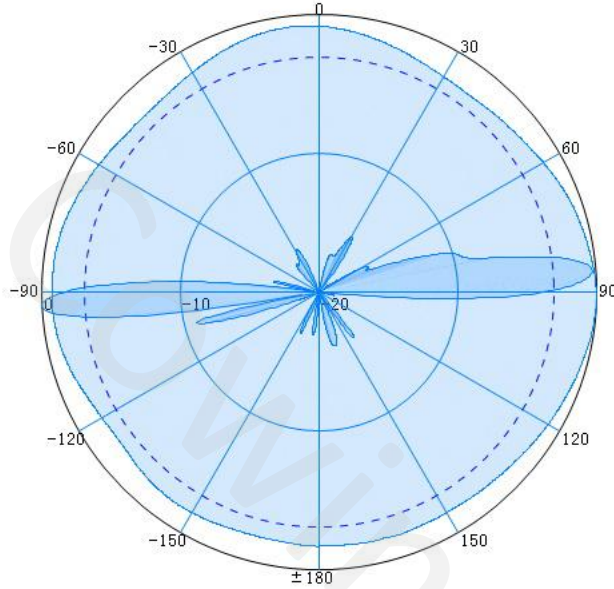
Gain: 12.61dBi



Test frequency: 5550MHz  
 Primary polarization:  
 Polarization: Vertical  
 Peak level: -31.77dB  
 3dB width: 8.00°  
 Pattern roundness: 23.75

Test frequency: 5550MHz  
 Primary polarization:  
 Polarization: Horizontal  
 Peak level: -33.58dB  
 3dB width: 238.44°  
 Pattern roundness: 2.00

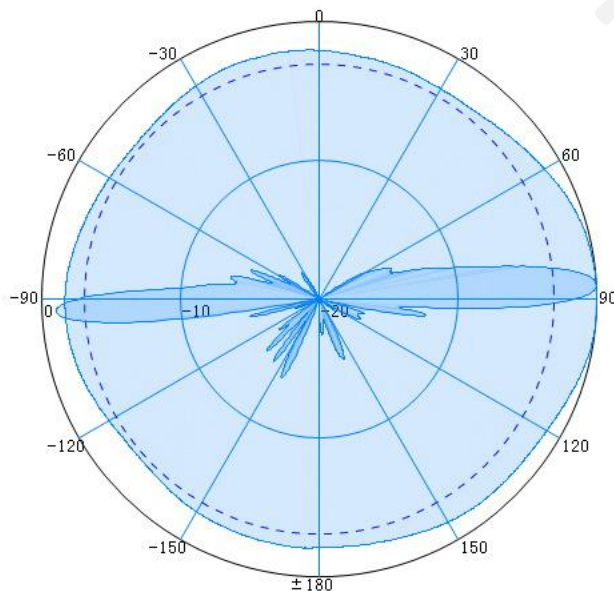
Gain: 12.63dBi



Test frequency: 5720MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Horizontal  
 Peak level: -32.68dB  
 3dB width: 360.00°  
 Pattern roundness: 1.37

Test frequency: 5720MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Vertical  
 Peak level: -32.16dB  
 3dB width: 7.11°  
 Pattern roundness: 24.75

Gain: 12.58dBi



Test frequency: 5850MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Horizontal  
 Peak level: -25.62dB  
 3dB width: 360.00°  
 Pattern roundness: 1.82

Test frequency: 5850MHz  
 Primary polarization:  
 Primary polarization  
 Polarization: Vertical  
 Peak level: -25.18dB  
 3dB width: 8.45°  
 Pattern roundness: 20.60

Gain: 12.69dBi