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## 1. Purpose

Standardize the product specifications and test methods of mobile communication terminal antennas produced by Shenzhen Deweima Communication Equipment Co., Ltd. to avoid errors caused by different test conditions and methods.

## 2. Overview of product categories and product models

### 2.1 Category

The mobile communication terminal antenna is a monopole antenna

### 2.2 Product model overview

This report outlines the electrical results of the antennas designed for the 2.4G/5.8G antenna project.

The designed frequency band of this antenna is: 2.4-2.5GHz/5.15-5.85GHz.

## 3. Technical indicators and experimental equipment

### 3.1 Technical indicators

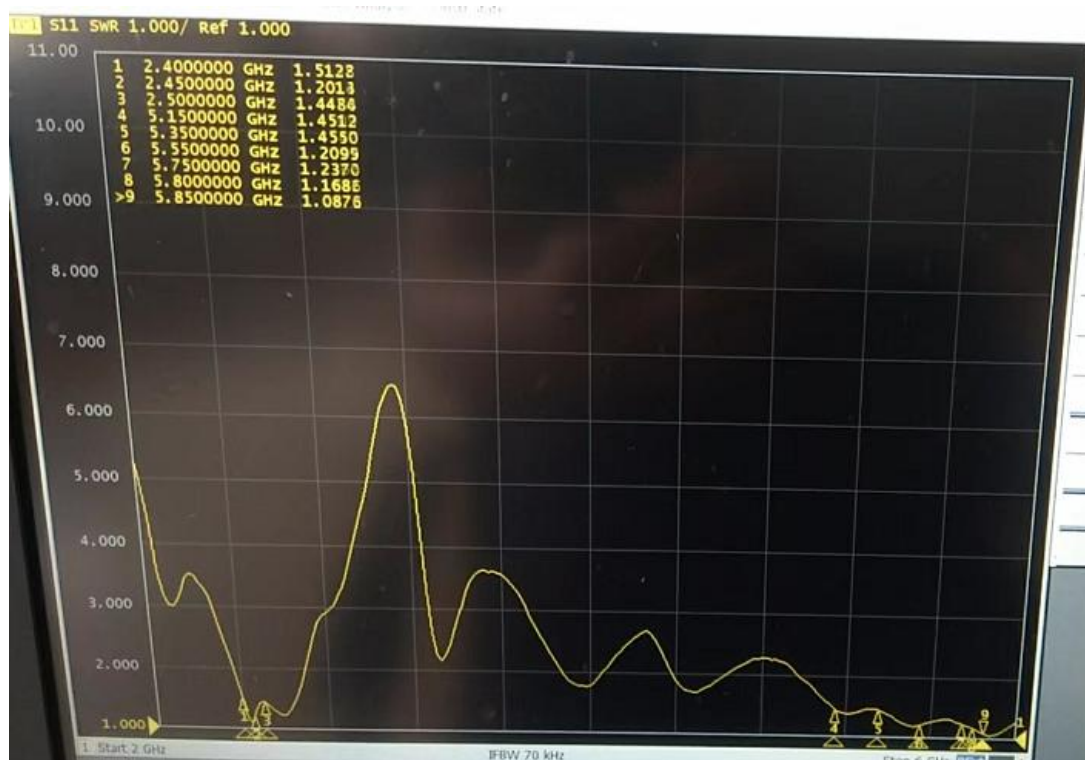
Product electrical performance index	
Operating frequency range	2400~ 2500MHz 5150~5800MHz
VSWR	2400~ 2500MHz<2 5150~ 5800MHz<3

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Radiation efficiency	2400~ 2500MHz > 60% 5150~5800MHz > 50%
impedance	50 ohm
<b>Product Environment Description</b>	
Operating temperature	- 30°C ~ + 85 °C
stored temperature	- 30°C ~ + 85 °C
Remarks: Please connect the product to the actual measurement effect of the installed machine	

#### 4. Antenna electrical performance parameters (SWR, gain, efficiency, pattern)

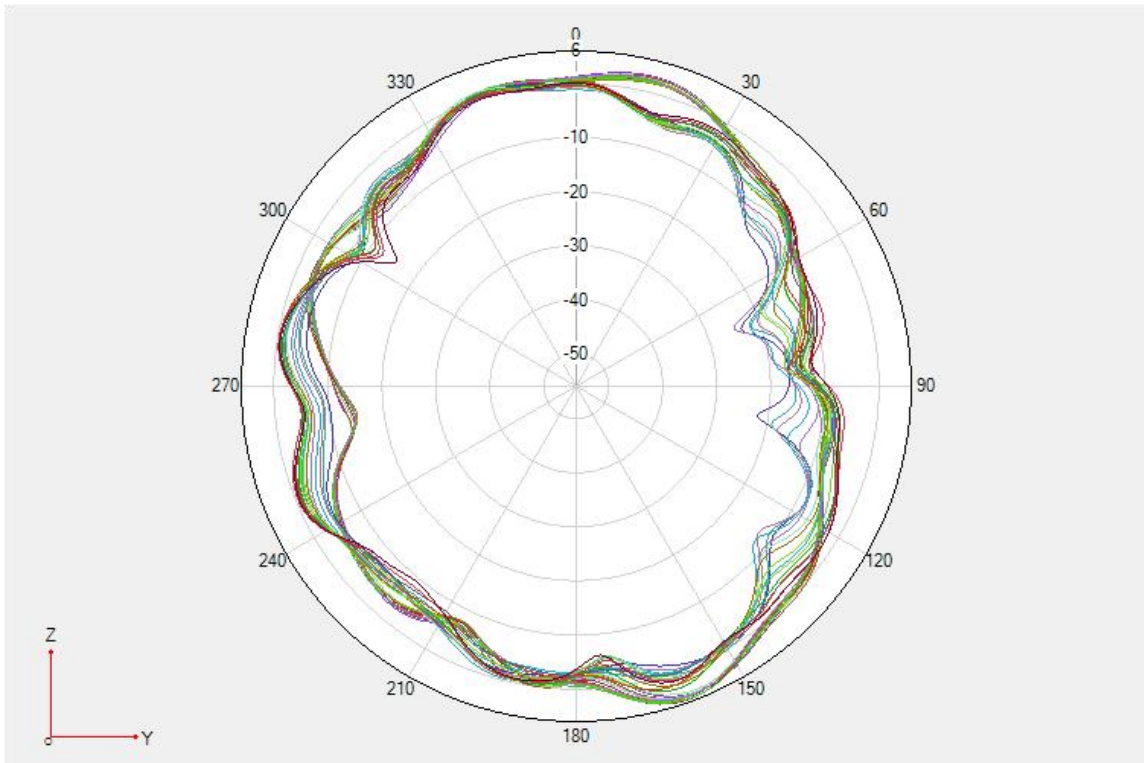
VSWR



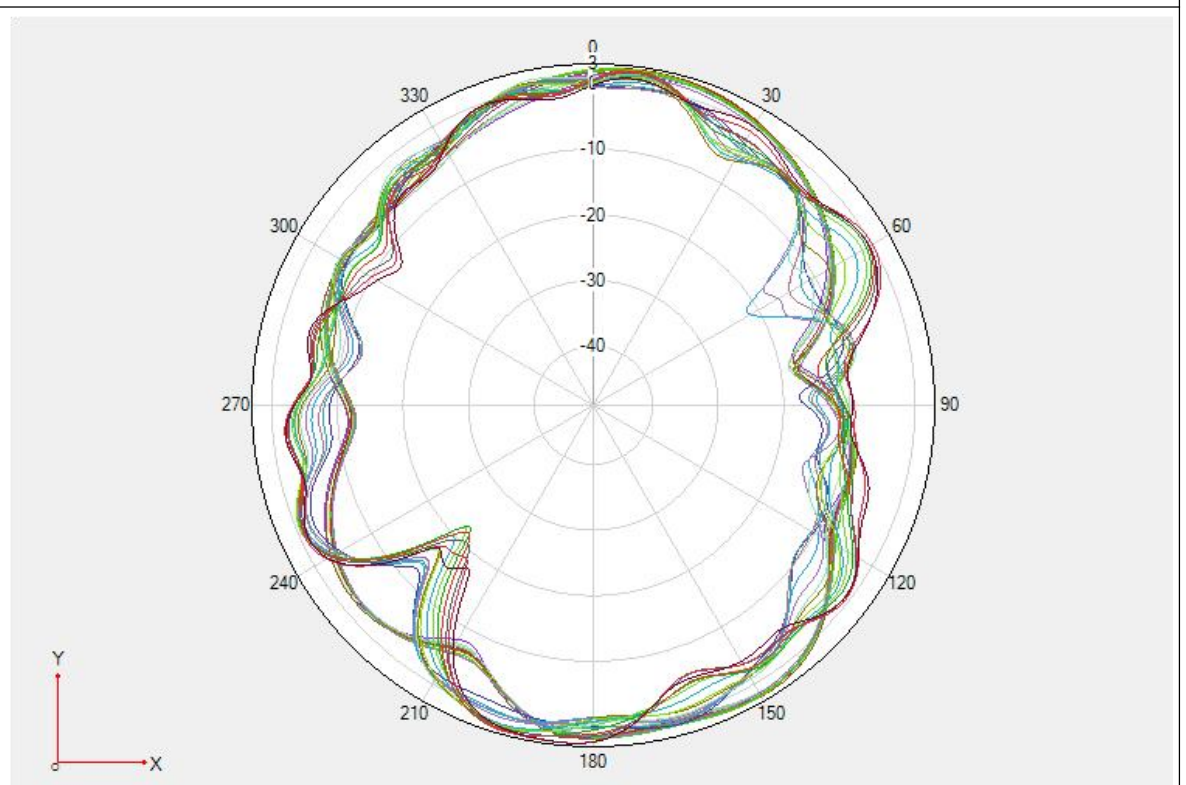
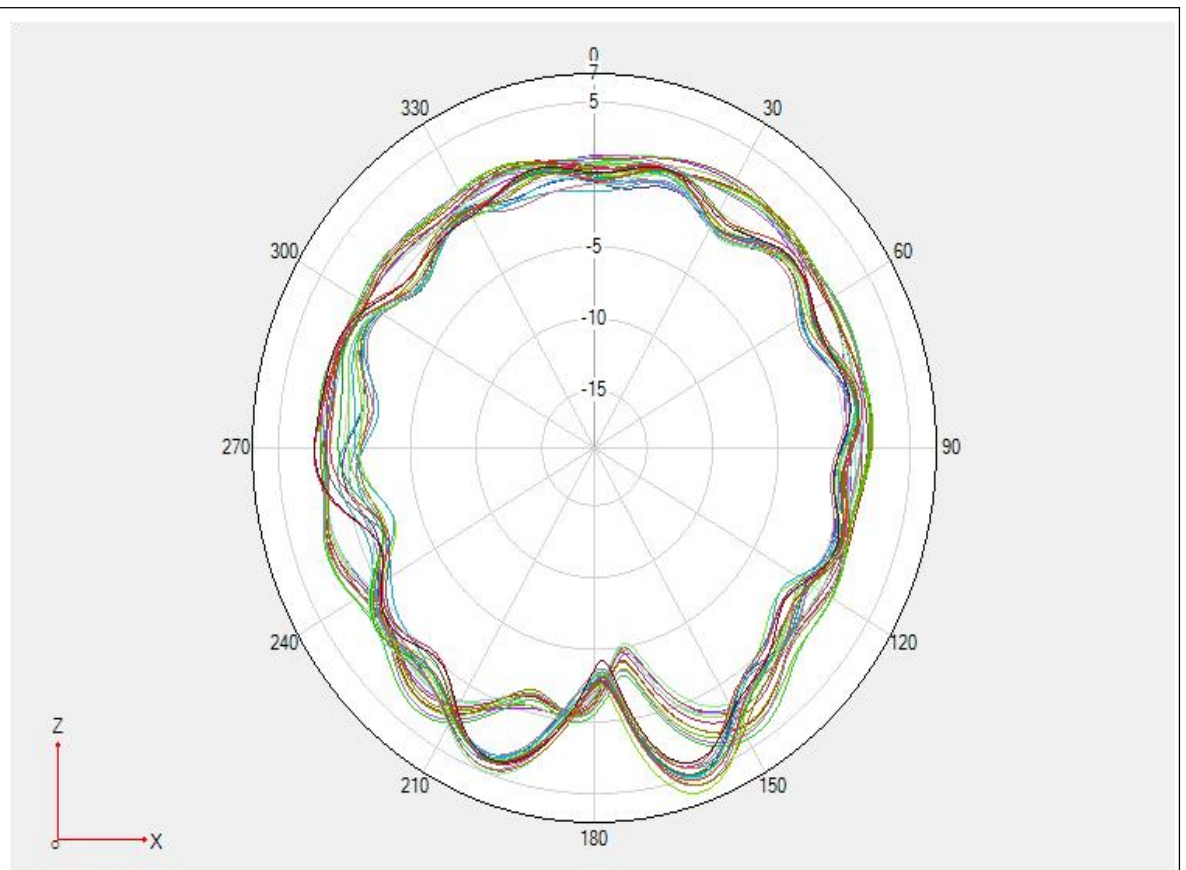
Efficiency and Gain

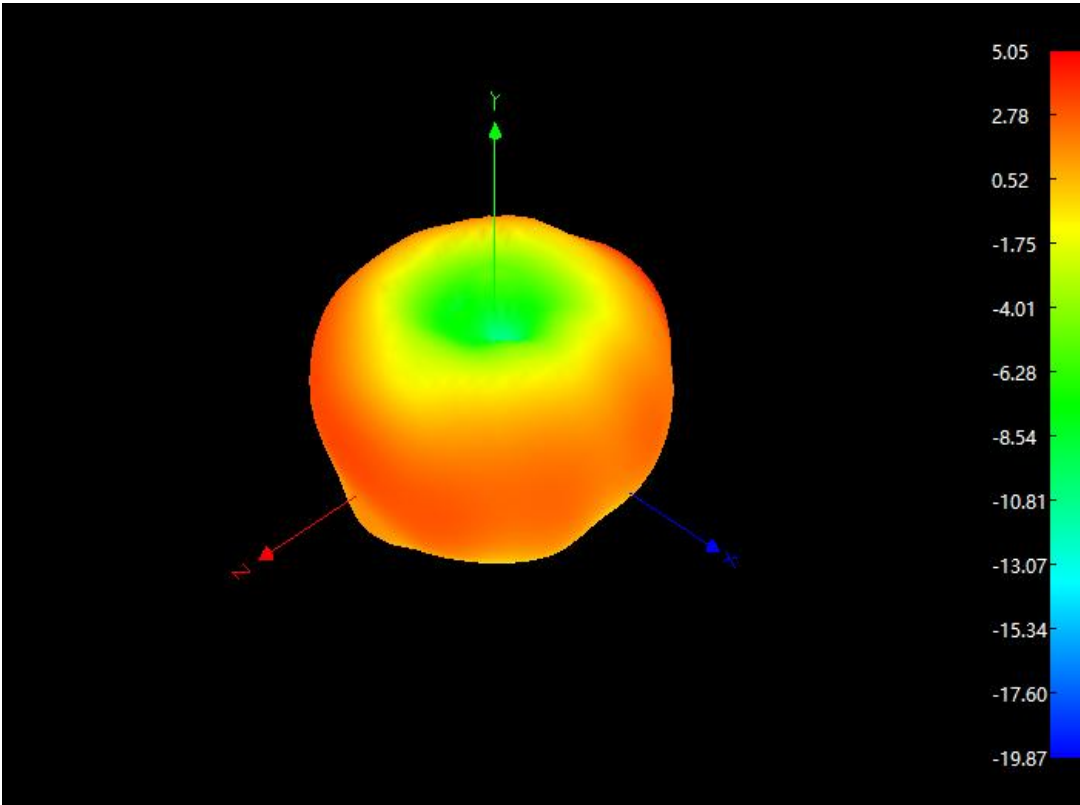
Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
2400	5.05	2400	-1.69	67.76
2410	4.61	2410	-1.82	65.77
2420	5.14	2420	-1.61	69.02
2430	5.35	2430	-1.58	69.5
2440	4.98	2440	-1.66	68.23
2450	5.39	2450	-1.48	71.12
2460	5.75	2460	-1.35	73.28
2470	5.24	2470	-1.46	71.45
2480	5.22	2480	-1.33	73.62
2490	5.59	2490	-1.16	76.56
2500	5.04	2500	-1.31	73.96
5150	5.42	5150	-2.37	57.94
5200	4.94	5200	-2.52	55.98
5250	4.66	5250	-2.65	54.33
5300	5.27	5300	-2.6	54.95
5350	5.31	5350	-2.31	58.75
5400	5.33	5400	-2.26	59.43
5450	5.45	5450	-2.26	59.43
5500	5.38	5500	-2.35	58.21
5550	5.37	5550	-2.47	56.62
5600	4.66	5600	-2.6	54.95
5650	5.22	5650	-2.14	61.09
5700	5.53	5700	-2.14	61.09
5750	5.22	5750	-2.42	57.28
5800	4.98	5800	-2.32	58.61
5850	4.75	5850	-2.4	57.54

**E1 side  
pattern**



**E2 side  
pattern**



<p><b>E3 side pattern</b></p>	
<p><b>3D Pattern</b></p>	 <p>A 3D visualization of a pattern on a sphere, likely representing a globe or a celestial body. The sphere is colored with a gradient from red at the top to blue at the bottom, with yellow and green in the middle. A vertical green arrow points upwards from the center of the sphere. Three coordinate axes are shown: a red arrow pointing left (labeled 'x'), a blue arrow pointing right (labeled 'y'), and a green arrow pointing upwards (labeled 'z'). A color scale bar is located on the right side of the image, ranging from 5.05 (red) to -19.87 (blue), with intermediate values: 2.78, 0.52, -1.75, -4.01, -6.28, -8.54, -10.81, -13.07, and -15.34.</p>

**5. Product photo**



20CM\*0.5CM