

# Antenna Test Report

**Test Standard:** IEEE 149-1979

**Manufacturer:** Shantou Chenghai Wanlilong Plastic Toy Factory

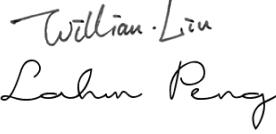
**Product Name:** 2.4GHz Antenna

**Model:** 690-D1

**Report No.:** SSP24010022A

**Tested Date:** 2024-01-08

**Issued Date:** 2024-01-09

**Tested By:** William Liu (Engineer) 

**Approved By:** Lahm Peng (Manager) 

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permission by Shenzhen ZRLK Testing Technology Co., Ltd.

## 1. General Information

### 1.1 Product Information

<b>Manufacturer</b>	
Manufacturer:	Shantou Chenghai Wanlilong Plastic Toy Factory
Address of Manufacturer:	Nanhuiwa Industrial Zone, Lianshang Town, Chenghai District, Shantou City, China

<b>General Description of Antenna</b>	
Product Name:	2.4GHz Antenna
Model No.:	690-D1
Frequency Range:	2400MHz-2483.5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View (50mm*1.5mm)	
 A photograph of a white, curved, integral antenna. It is positioned horizontally against a dark blue, textured background, likely a woven fabric. The antenna has a slight bend in the middle and a flared end on the left side.	

### 1.2 Test Methodology

All measurements contained in this report were conducted with standards IEEE 149-1979 for IEEE Standard Test Procedures for Antennas.

### 1.3 Test Facilities

<b>Testing Lab: Shenzhen ZRLK Testing Technology Co., Ltd.</b>
All measurement facilities used to collect the measurement data are located at 1F, No. 35 Building, Changxing Technology Industrial Park, Yutang Street, Guangming New District, Shenzhen City, Guangdong Province, China

## 2. OTA Test

### 2.1 Gain

Frequency	Peak Gain (dBi)	Polarity
2410MHz	0	Horizontal
2410MHz	-0.34	Vertical
2445MHz	-1.53	Horizontal
2445MHz	-2.26	Vertical
2475MHz	-2.46	Horizontal
2475MHz	-2.98	Vertical

### 2.2 Radiation Pattern View

