

# Antenna Test Report

**Test Standard:** IEEE 149-1979

**Manufacturer:** THINKCAR TECH CO., LTD.

**Product Name:** 2.4GHz Antenna

**Model:** TKD09

**Report No.:** SSP23040105A

**Tested Date:** 2023-04-24

**Issued Date:** 2023-04-25

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

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

*William Liu*  
*Lahm Peng*

**Prepared By:**

**Shenzhen ZRLK Testing Technology Co., Ltd.**

1F, No. 35 Building, Changxing Technology Industrial Park, Yutang Street,  
Guangming New District, Shenzhen City, Guangdong Province, China


Tel.: +86-755-33019599    Fax.: +86-755-33019599    Website: [www.zrlklab.com](http://www.zrlklab.com)

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

## 1. General Information

### 1.1 Product Information

Manufacturer	
Manufacturer:	THINKCAR TECH CO., LTD.
Address of Manufacturer:	2606, building 4, phase II, Tianan Yungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

General Description of Antenna	
Product Name:	2.4GHz Antenna
Model No.:	TKD09
Frequency Range:	2400MHz-2483.5MHz
Type of Antenna:	FPCB Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View (21mm*10mm) 	

### 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

Testing Lab: Shenzhen ZRLK Testing Technology Co., Ltd.
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
2402MHz	0	Horizontal
2402MHz	-1.33	Vertical
2442MHz	-2.05	Horizontal
2442MHz	-2.58	Vertical
2480MHz	-2.85	Horizontal
2480MHz	-3.45	Vertical

### 2.2 Radiation Pattern View

