

# Antenna Test Report

**Test Standard:** IEEE 149-1979

**Manufacturer:** Shenzhen fangyingzhilian Technology Co., Ltd

**Product Name:** 2.4GHz Antenna

**Model:** VK-G1

**Report No.:** SSP23080038A

**Tested Date:** 2023-08-01

**Issued Date:** 2023-08-02

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

## 1. General Information

### 1.1 Product Information

| Manufacturer             |                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:            | Shenzhen fangyingzhilian Technology Co., Ltd                                                                                                                       |
| Address of Manufacturer: | Room 1301, Block B2, Building 9, District 2, ShenzhenBay Science and Technology Ecological Park, No. 3609.BaishiRoad, Yuehai Street.<br>Nanshan District, Shenzhen |

| General Description of Antenna                                                                                   |                 |
|------------------------------------------------------------------------------------------------------------------|-----------------|
| Product Name:                                                                                                    | 2.4GHz Antenna  |
| Model No.:                                                                                                       | VK-G1           |
| Frequency Range:                                                                                                 | 2400MHz-2500MHz |
| Type of Antenna:                                                                                                 | PIFAAntenna     |
| Antenna Gain:                                                                                                    | 1.73dBi (Max.)  |
| Impedance:                                                                                                       | 50 ohm          |
| Antenna View (60mm*15mm)<br> |                 |

### 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 | E (%) | Max Gain |
|-----------|-------|----------|
| 2400MHz   | 62%   | 1.32     |
| 2410MHz   | 61%   | 1.36     |
| 2420MHz   | 61%   | 1.16     |
| 2430MHz   | 61%   | 1.34     |
| 2440MHz   | 60%   | 1.44     |
| 2450MHz   | 58%   | 1.65     |
| 2460MHz   | 58%   | 1.55     |
| 2470MHz   | 57%   | 1.29     |
| 2480MHz   | 57%   | 1.43     |
| 2490MHz   | 58%   | 1.73     |
| 2500MHz   | 59%   | 1.73     |

### 2.2 Radiation Pattern View

