

# Antenna Test Report

**Report No.** : SSP24040019-2A

**Manufacturer** : Shenzhen Xiang Xiang Yu Technology Co., Ltd

**Product Name** : 2.4GHz Antenna

**Model Name** : Y30

**Test Standard** : IEEE 149-1979

**Tested Date** : 2024-03-27

**Issued Date** : 2024-03-28

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

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



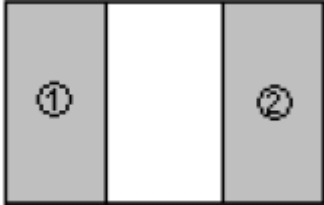
**Shenzhen CCUT Quality Technology Co., Ltd.**

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Guangdong, China; (Tel.:+86-755-23406590 website: [www.ccuttest.com](http://www.ccuttest.com))

This test report is limited to the above client company and the product model only. It may not be duplicated  
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# 1. General Information

## 1.1 Product Information

|                          |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:            | Shenzhen Xiang Xiang Yu Technology Co., Ltd                                                                                          |
| Address of Manufacturer: | A601, A301, No.6, Qinhui Road, Guxing community, Xixiang street, Bao'an District, Shenzhen, China                                    |
|                          |                                                                                                                                      |
| Product Name:            | 2.4GHz Antenna                                                                                                                       |
| Model Name:              | Y30                                                                                                                                  |
| Frequency Range:         | 2402MHz - 2480MHz                                                                                                                    |
| Type of Antenna:         | SMD Antenna                                                                                                                          |
| Antenna Gain:            | 3.35dBi (Max.)                                                                                                                       |
| Impedance:               | 50 ohm                                                                                                                               |
|                          |                                                                                                                                      |
| Antenna View:            | <div>Length * Width (2mm*1.6mm)</div> <div></div> |

## 1.2 Test Facilities

|                                                                                                                                                                                                      |                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name:                                                                                                                                                                                     | <b>Shenzhen CCUT Quality Technology Co., Ltd.</b><br>1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. |                                                                                                                                                                           |

1.3 List of Measurement Instruments

| Description       | Manufacturer | Model      | Serial Number | Cal. Date  | Due. Date  |
|-------------------|--------------|------------|---------------|------------|------------|
| Horn Antenna      | SCHWARZBECK  | BBHA 9120D | 02553         | 2023-08-05 | 2024-08-04 |
| Spectrum Analyzer | KEYSIGHT     | N9020A     | MY48030972    | 2023-07-31 | 2024-07-30 |
| Amplifier         | Agilent      | 8449B      | 3008A01520    | 2023-07-31 | 2024-07-30 |

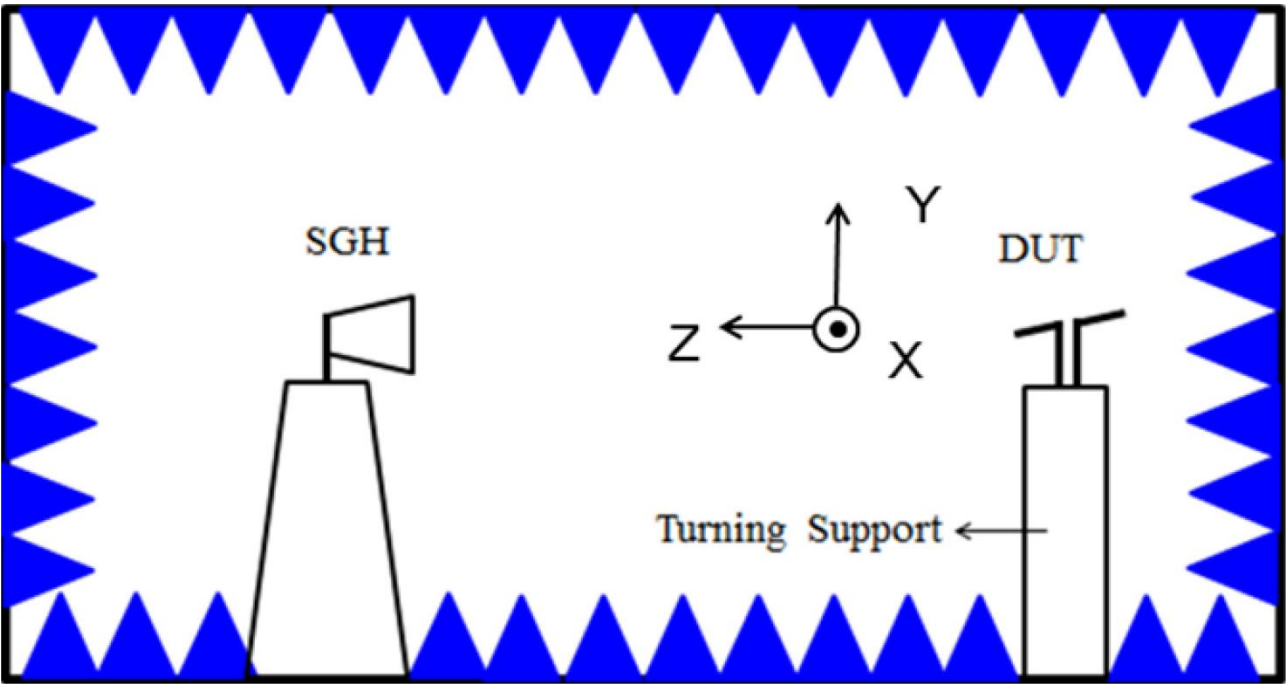
1.4 Measurement Uncertainty

| Parameter          | Conditions | Uncertainty |
|--------------------|------------|-------------|
| Radiated Emissions | 1Hz ~ 6GHz | ±3.38 dB    |

1.5 Test Methodology

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

1.6 Test Setup



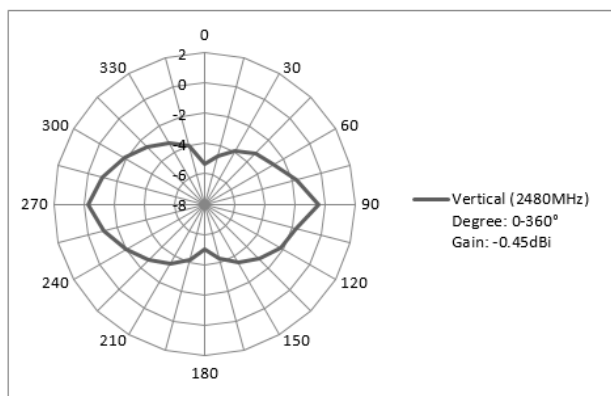
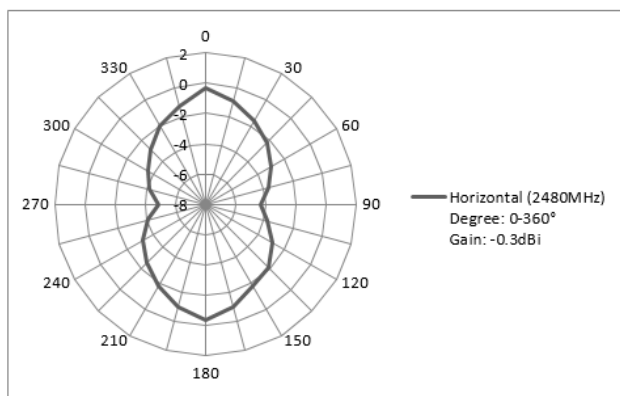
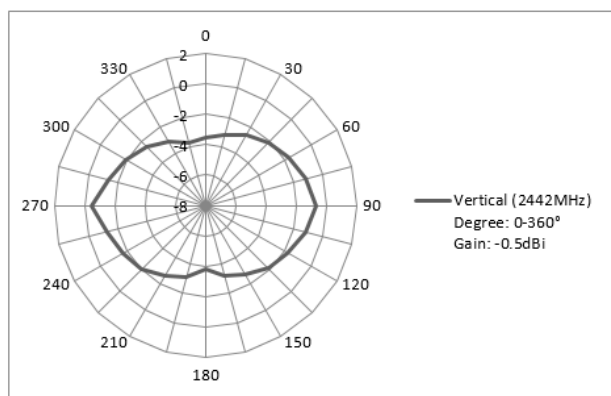
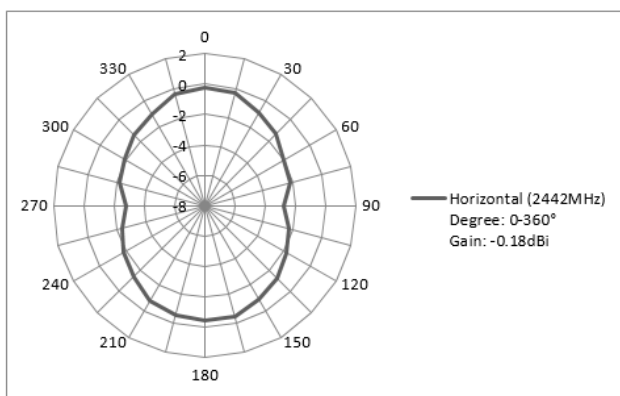
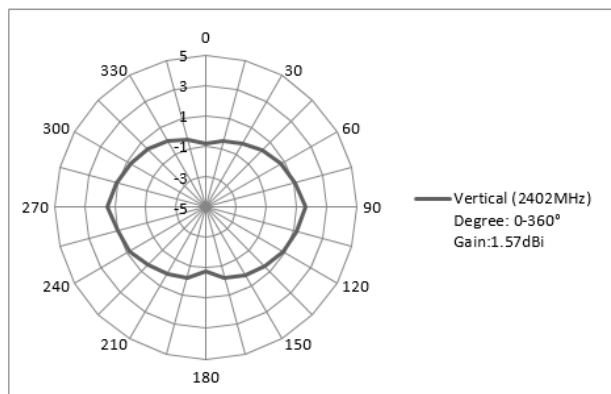
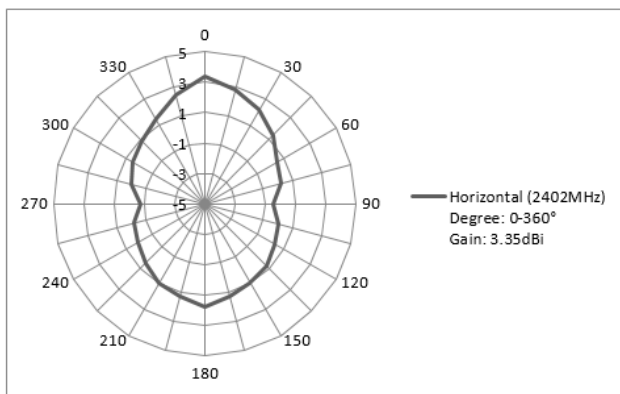
## 2. OTA Test

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### 2.1 Gain

| Frequency | Peak Gain (dBi) | Polarity   |
|-----------|-----------------|------------|
| 2402MHz   | 3.35            | Horizontal |
| 2402MHz   | 1.57            | Vertical   |
| 2442MHz   | -0.18           | Horizontal |
| 2442MHz   | -0.5            | Vertical   |
| 2480MHz   | -0.3            | Horizontal |
| 2480MHz   | -0.45           | Vertical   |

## 2.2 Radiation Pattern View



\*\*\*\*\* END OF REPORT \*\*\*\*\*