

# Antenna Test Report

**Report No.** : SSP24060119-1E

**Manufacturer** : SHENZHEN FREEDCONN (FDC) Electronics Co., Ltd.

**Product Name** : 2.4GHz Antenna

**Model Name** : FG

**Test Standard** : IEEE 149-1979

**Tested Date** : 2024-06-18

**Issued Date** : 2024-06-19

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

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



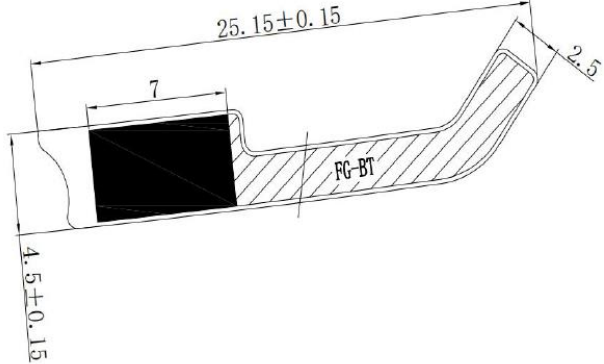
**Shenzhen CCUT Quality Technology Co., Ltd.**

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

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 CCUT Quality Technology Co., Ltd.

# 1. General Information

## 1.1 Product Information

Manufacturer:	SHENZHEN FREEDCONN (FDC) Electronics Co., Ltd.
Address of Manufacturer:	East Area 4th floor, E building, Hua Chuang Da industry parkNo.176 HangCheng Road, Xixiang, Baoan, Shenzhen, China
Product Name:	2.4GHz Antenna
Model Name:	FG
Frequency Range:	2400MHz - 2483.5MHz
Type of Antenna:	FPCB Antenna
Antenna Gain:	0dBi (Max.)
Impedance:	50 ohm
Antenna View:	<p>Unit:mm</p> 

## 1.2 Test Facilities

Laboratory Name:	<p><b>Shenzhen CCUT Quality Technology Co., Ltd.</b>                  1F, Building 35, Changxing Technology Industrial Park, Yutang Street,                  Guangming District, Shenzhen, Guangdong, China</p>
<p>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.</p>	

### 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
Vector Network Analyzer	Agilent	E5071B	MY42404001	2023-07-31	2024-07-30

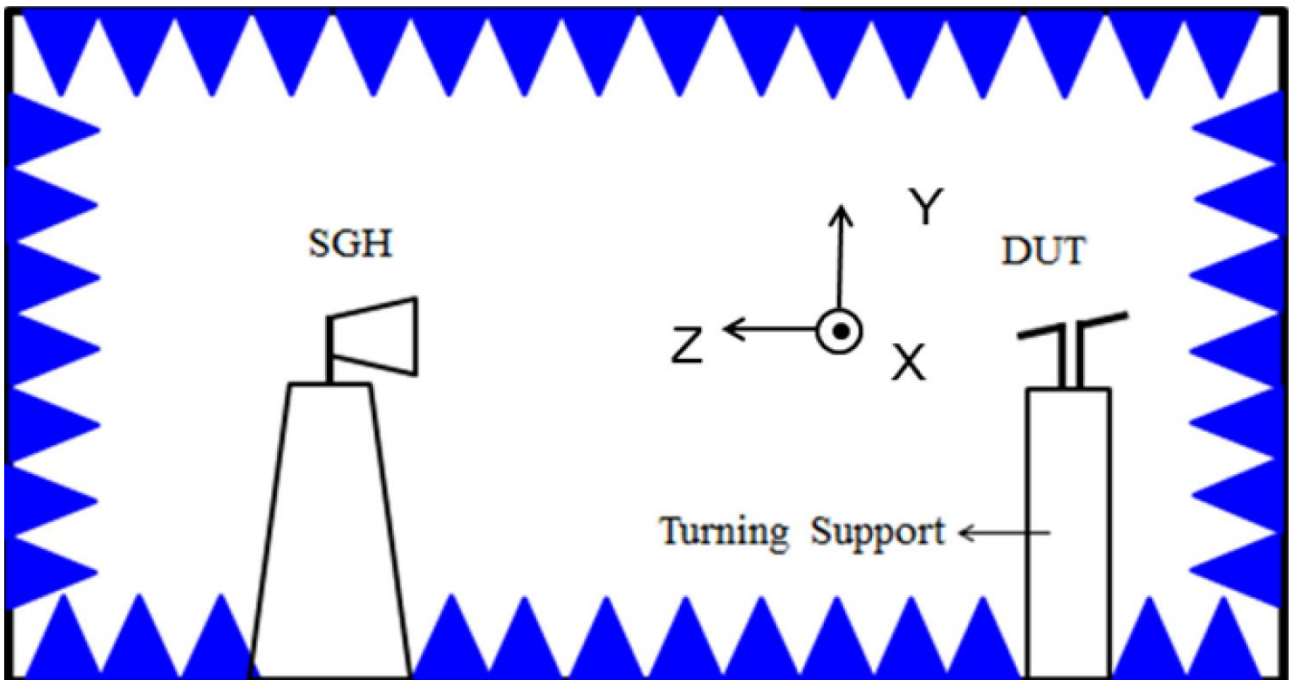
### 1.4 Measurement Uncertainty

Parameter	Conditions	Uncertainty
Radiated Emissions Power	100MHz ~ 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

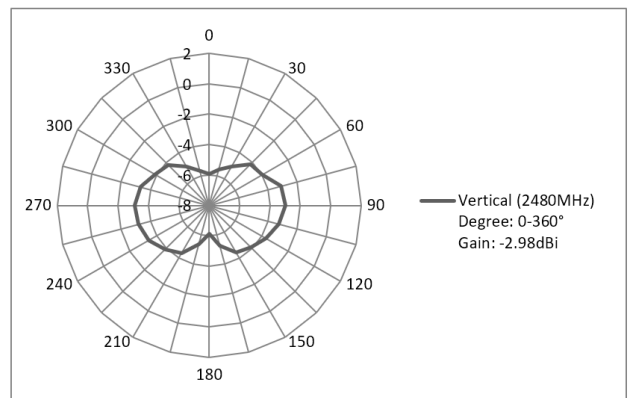
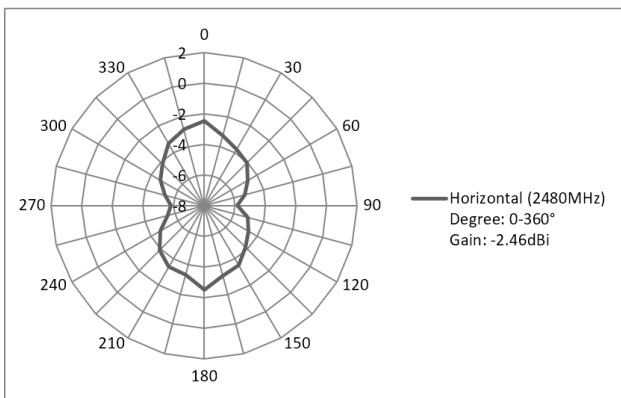
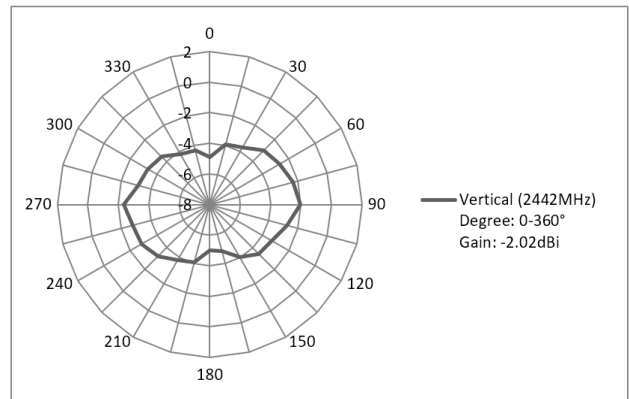
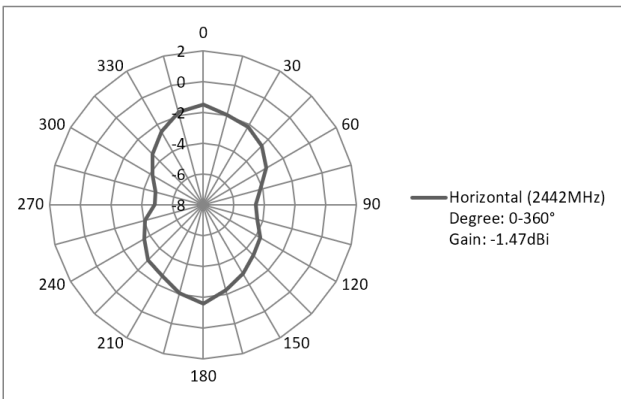
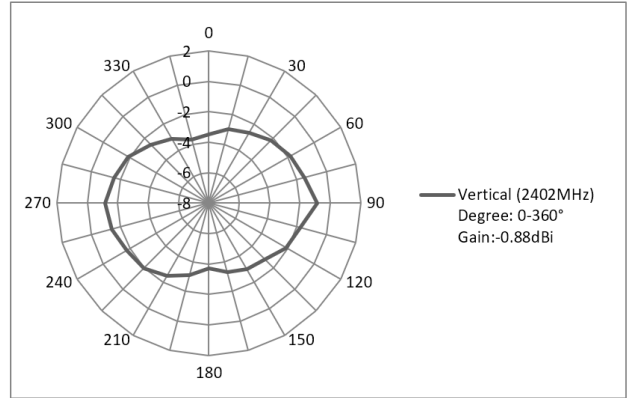
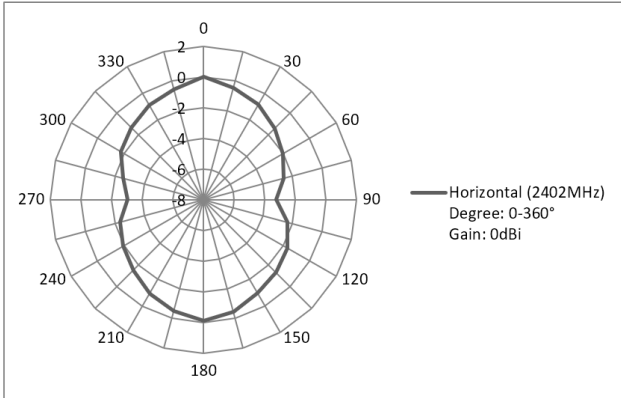


## 2. OTA Test

### 2.1 Gain

Frequency	Peak Gain (dBi)	Polarity
2402MHz	0	Horizontal
2402MHz	-0.88	Vertical
2442MHz	-1.47	Horizontal
2442MHz	-2.02	Vertical
2480MHz	-2.46	Horizontal
2480MHz	-2.98	Vertical

### 2.2 Radiation Pattern View



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