



ANTENNA REPORT

Manufacture: TUYA

Product Name: PHY6252

Antenna Antenna Type: PCB

Test Date: 2020.04.15

Tested by: Irene

Approved by: Licco

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1.General Description

| | |
|----------------|--|
| Manufacturer | Hangzhou Tuya Information Technology Co.,Ltd |
| Address | Room 701,Building 3,More Center,No.87 GuDun Road, Hangzhou, Zhejiang,China |
| Test Location | Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Binjiang District, Hangzhou |
| Product Name | PHY6252 Antenna |
| Product model | PHY6252 |
| Antenna Type | PCB Antenna |
| Test Items | Gain; Efficiency; Radiation Pattern |
| Test Frequency | 2400-2500MHz |
| Test Standard | ANSI/IEEE Std 149-1979 |

2. Test Configurations

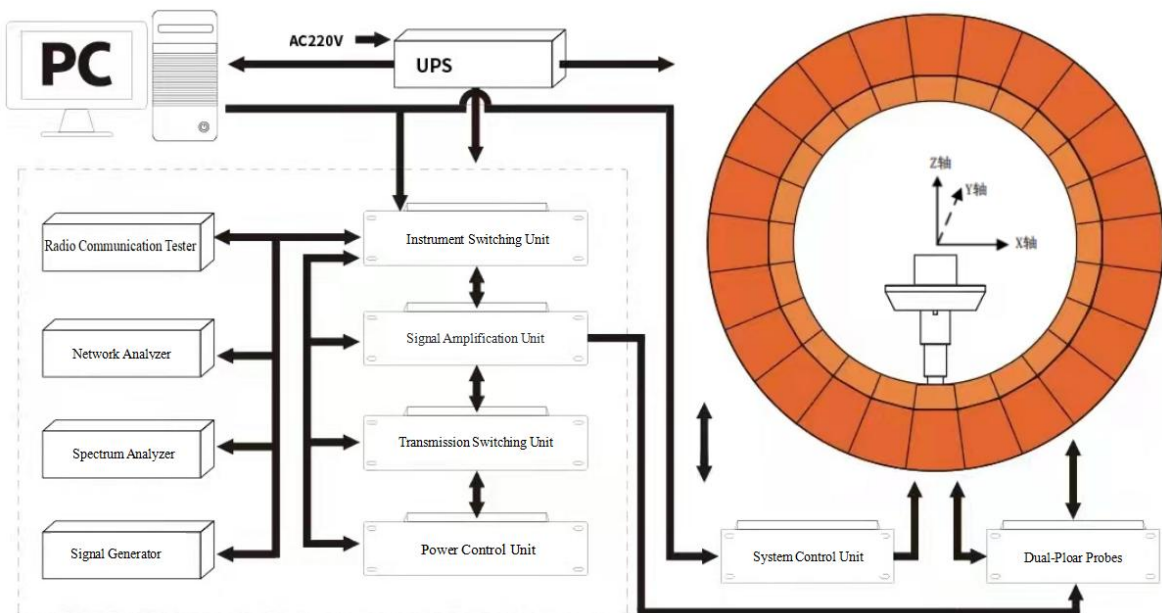
2.1 Test Environment

| | |
|----------------------------|-------|
| Temperature (°C) | 25 |
| Humidity (%RH) | 60 |
| Atmospheric Pressure (kPa) | 100.5 |

2.2 Test Equipment

| | |
|-----------------|--------------------------------------|
| Test System | TEM 24 Multi-probe Microwave Chamber |
| Test Instrument | Agilent E5071B |

2.3 Test Principle





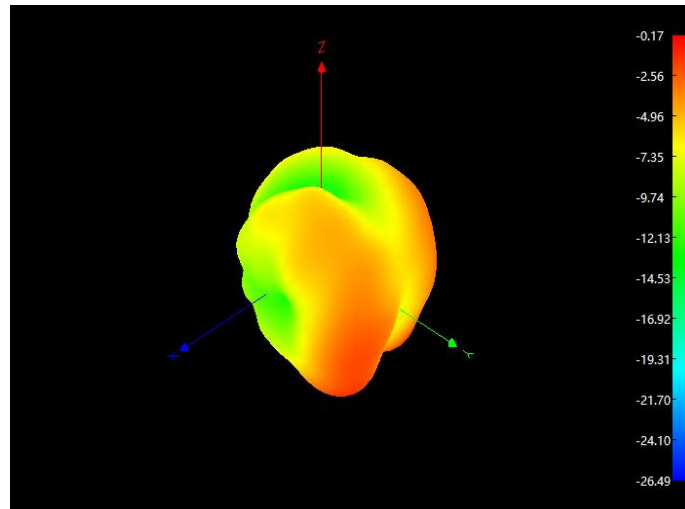
3.Test Results

3.1 Gain and Efficiency

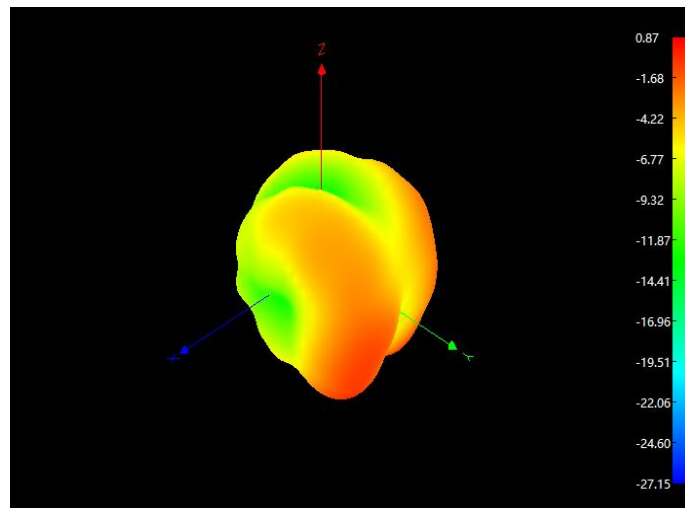
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
|-----------------|-----------------|----------------|
| 2400 | -0.17 | 23.33 |
| 2410 | 0.06 | 24.6 |
| 2420 | 0.34 | 26.12 |
| 2430 | 0.54 | 28.05 |
| 2440 | 0.89 | 30.55 |
| 2450 | 0.87 | 30.76 |
| 2460 | 0.79 | 30.55 |
| 2470 | 0.76 | 30.2 |
| 2480 | 0.75 | 30.13 |
| 2490 | 0.79 | 29.99 |
| 2500 | 0.58 | 27.73 |

3.2 Radiation Pattern

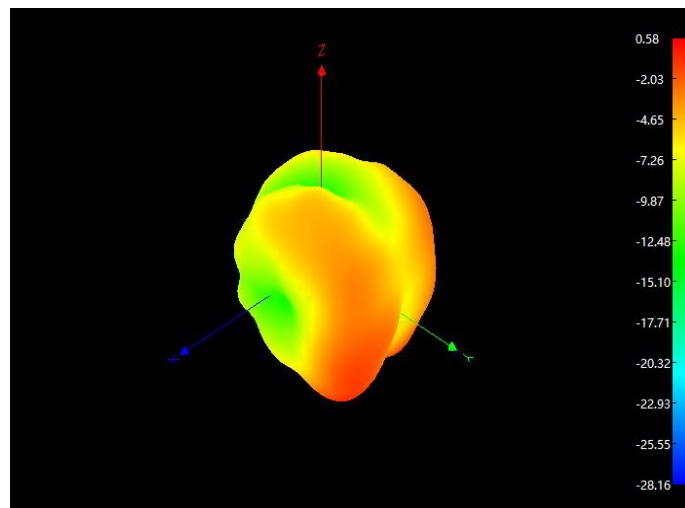
2400MHz 3D



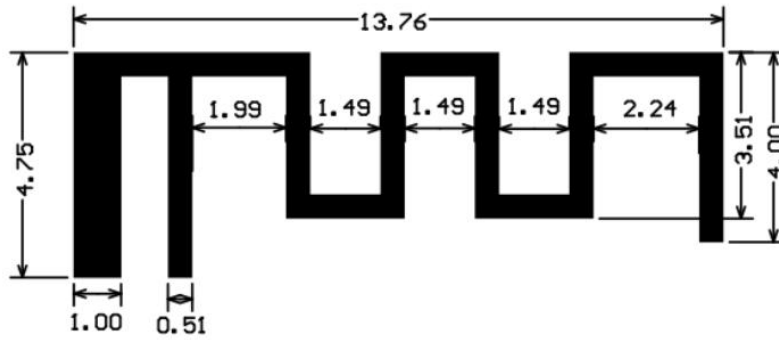
2450MHz 3D



2500MHz 3D

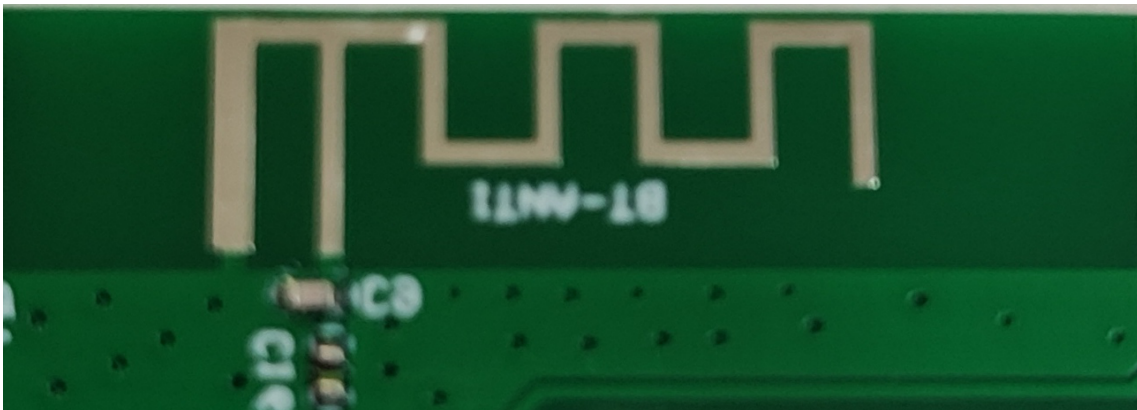


4. Antenna Dimensions



单位: mm
unit

5. EUT Photo



6.Test Setup Photo

