

Antenna Specification

Manufacture: ACTION DYNAMIC

Product Name: SI24R1 Antenna

Type: PCB

Test Date: 2020.11.24

Tested by: Yinhua Zhang

Approved by: Licco

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1.General Description

| | |
|----------------|---|
| Manufacturer | SHENZHEN ACTION DYNAMIC TECH.(HK) TRADING CO. |
| Address | Room 1139-1142, Guoli Building, New Asia Phase II, Zhenzhong Road, Futian District, Shenzhen |
| Test Location | Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Binjiang District, Hangzhou |
| Product Name | SI24R1 Antenna |
| Product model | SI24R1 |
| Antenna Type | PCB Antenna |
| Test Items | Gain; Efficiency; Radiation Pattern |
| Test Frequency | 2400-2500MHz |
| Test Standard | ANSI/IEEE Std 149-1979 |

2. Test Configurations

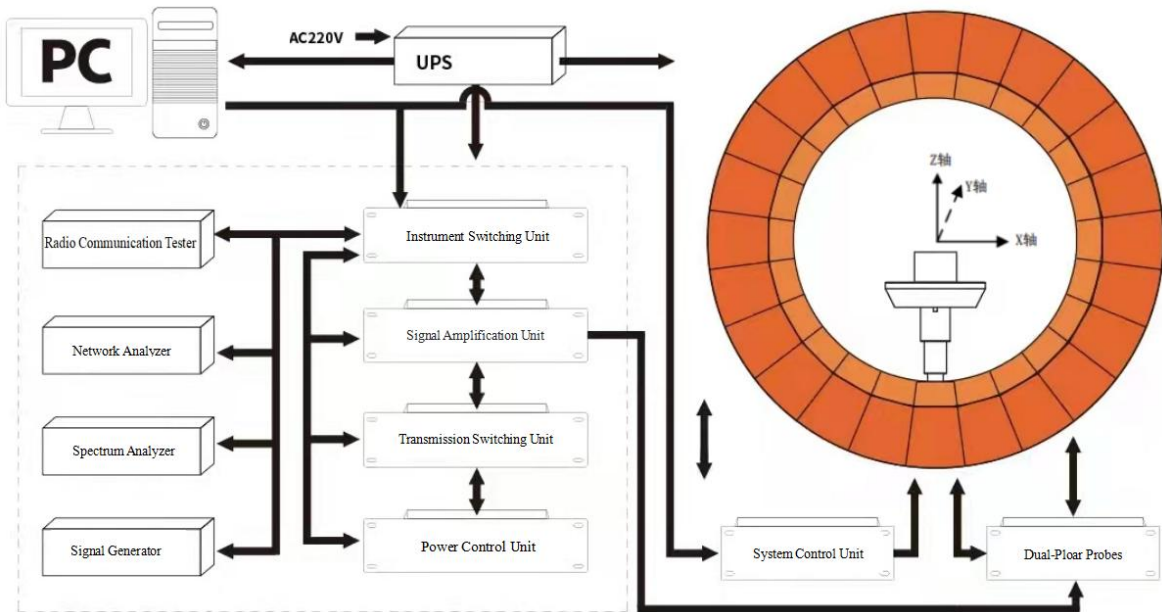
2.1 Test Environment

| | |
|----------------------------|-------|
| 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



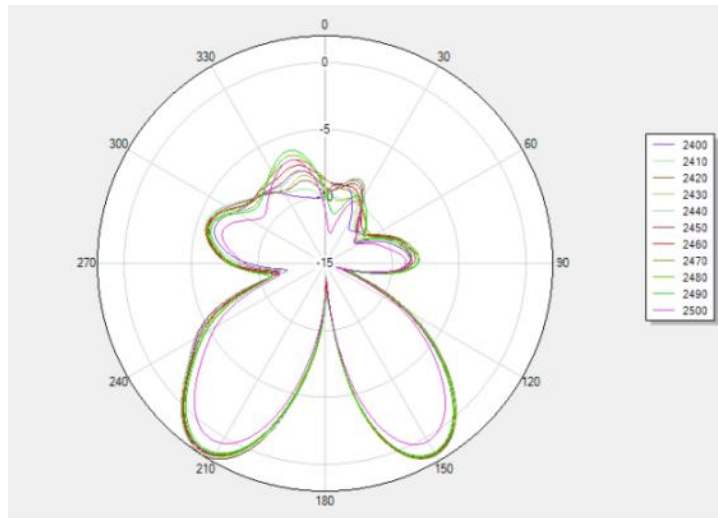
3.Test Results

3.1 Gain and Efficiency

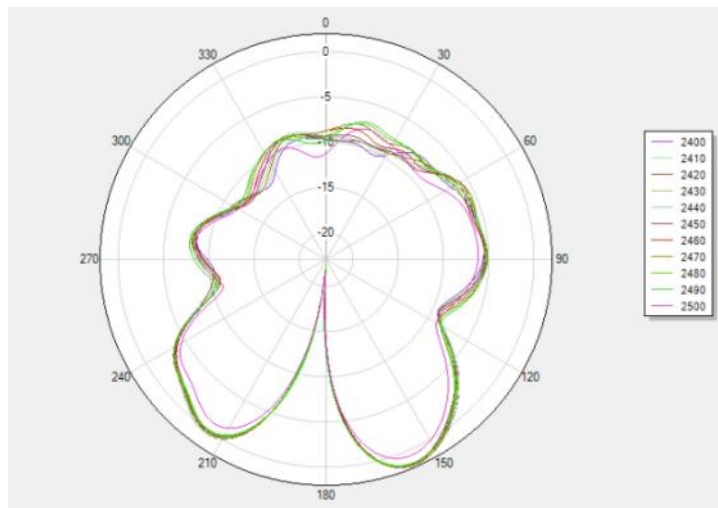
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
|-----------------|-----------------|----------------|
| 2400 | 2.11 | 32.36 |
| 2410 | 2.18 | 32.3 |
| 2420 | 2.21 | 32.1 |
| 2430 | 2.06 | 32.4 |
| 2440 | 2.07 | 32.9 |
| 2450 | 1.91 | 30.9 |
| 2460 | 2.04 | 30.8 |
| 2470 | 2.09 | 30.7 |
| 2480 | 1.98 | 31.6 |
| 2490 | 1.91 | 30.6 |
| 2500 | 1.03 | 30.5 |

3.2 Radiation Pattern

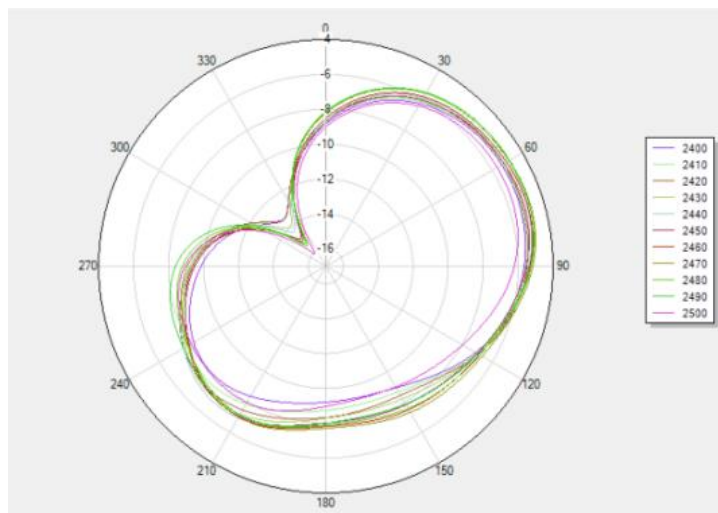
Phi 0 2D



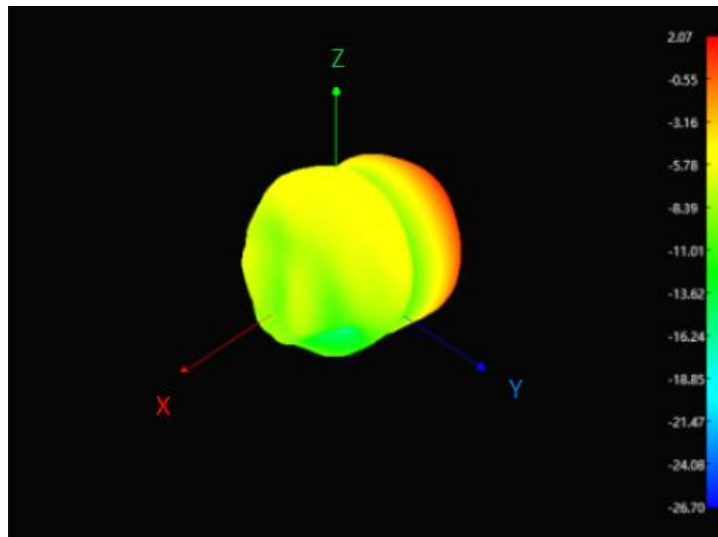
Phi 90 2D



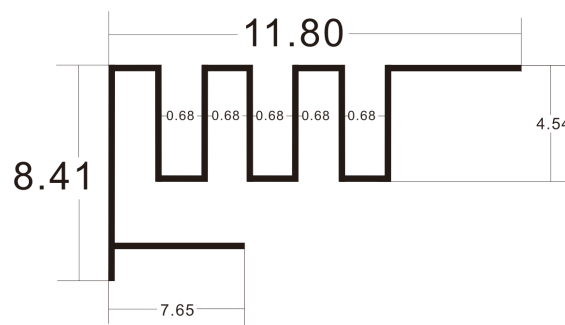
Theta 90 2D



2440MHz 3D

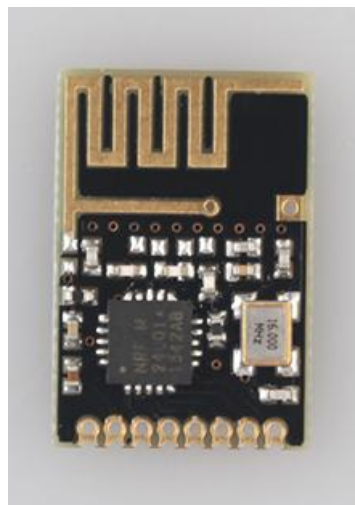


4. Antenna Dimensions



Unit: mm

5. EUT Photo



6.Test Setup Photo

