

## Antenna test report

Manufacturer:Shenzhen Divoom Technology Co.,Ltd.

Address:1st Floor,5th Building,Xinlianhe Industrial Park, Jincheng Road,Shajing Town, Bao'an,

Shenzhen,China

Model:Ditoo-5M

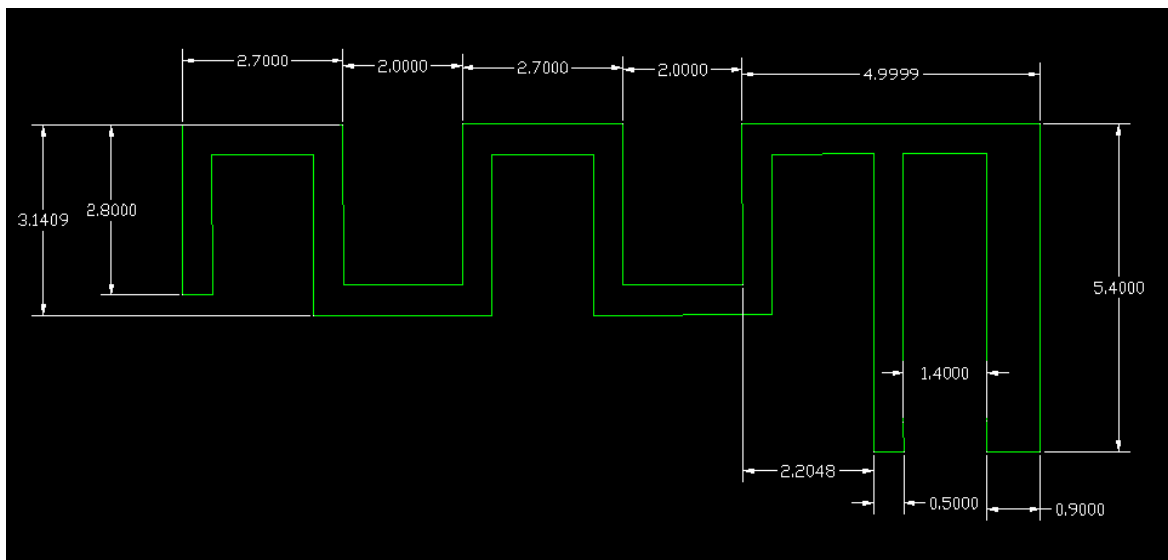
### APPlications

※Bluetooth Home RF

※ISM band 2.4GHz applications

#### 1. Dimensions

### Picture of antenna



#### 2. Specifications

| number | Item                      | Specifications     |
|--------|---------------------------|--------------------|
| 1      | Working Central Frequency | 2441 MHz           |
| 2      | Band Width                | (2402-2480)MHz     |
| 3      | Gain                      | 0dBi               |
| 4      | VSWR                      | ≤2.0               |
| 5      | Antenna type              | PCB antenna        |
| 6      | Azimuth Beam width        | Omni - directional |
| 7      | Impedance                 | 50 Ω               |
| 8      | Modulation mode           | GFSK               |

### 3. Instrument testing, software simulation parameters

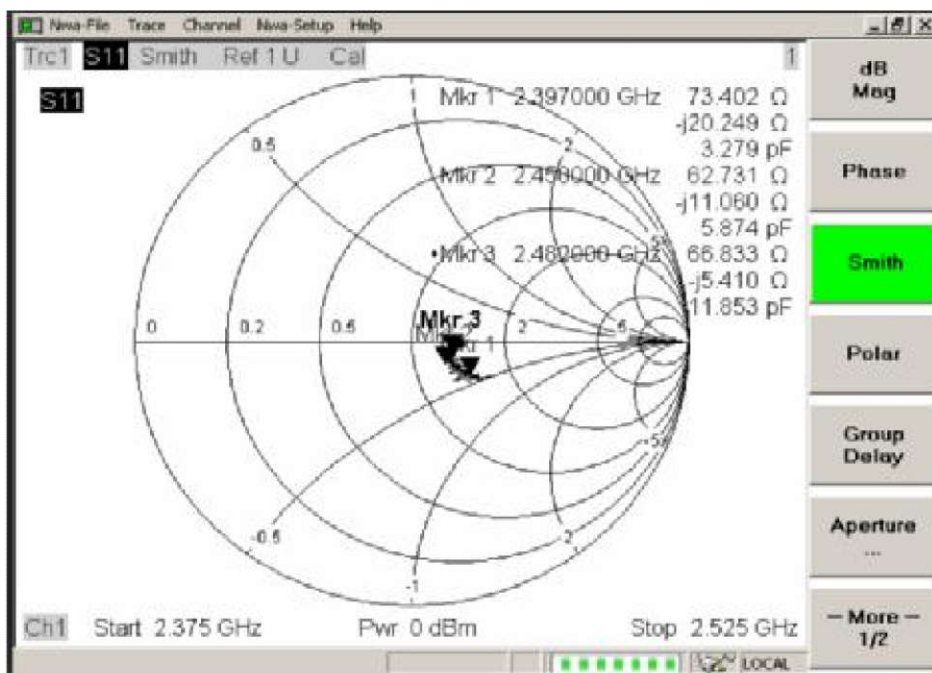
#### ① VSWR

Mkr1: 2397MHz 1.47      Mkr2: 2450MHz 1.51      Mkr3: 2482 MHz 1.59



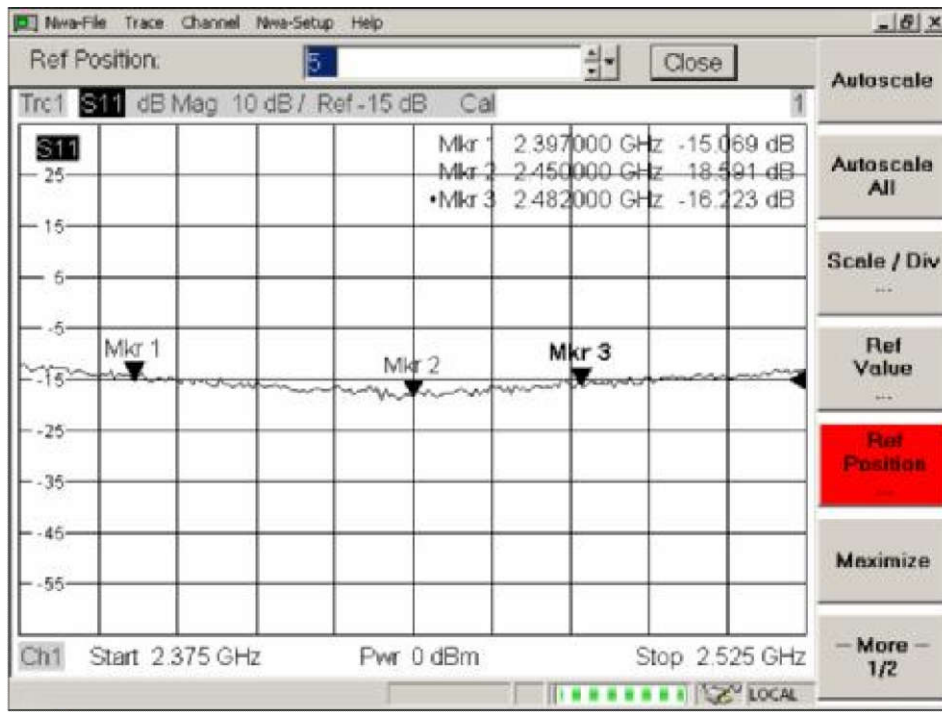
#### ② Smith Char

Mkr1: 2397MHz 73.4      Mkr2: 2450MHz 62.7      Mkr3: 2482MHz 66.8



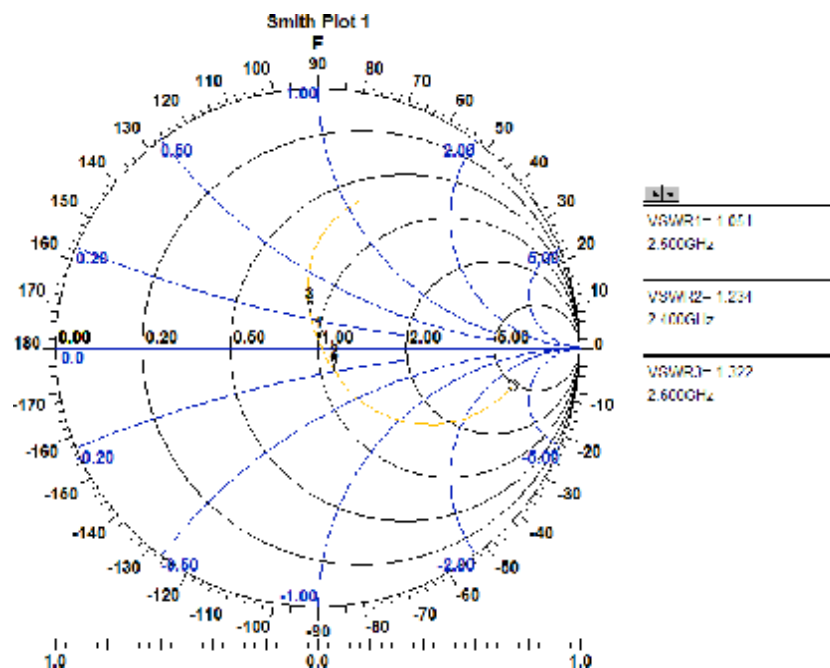
### ③Return Loss

Mkr1: 2397MHz -15      Mkr2: 2450MHz -18      Mkr3: 2482 MHz -16



### ④Smith Char simulation

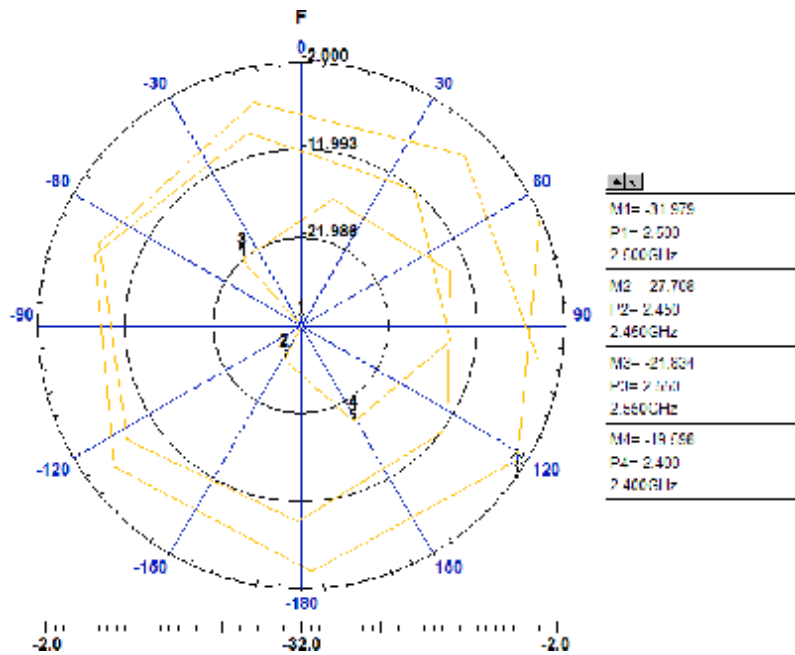
Mkr1: 2400MHz 1.234      Mkr2: 2500MHz 1.051      Mkr3: 2600MHz 1.322



### ⑤ Return Loss simulation

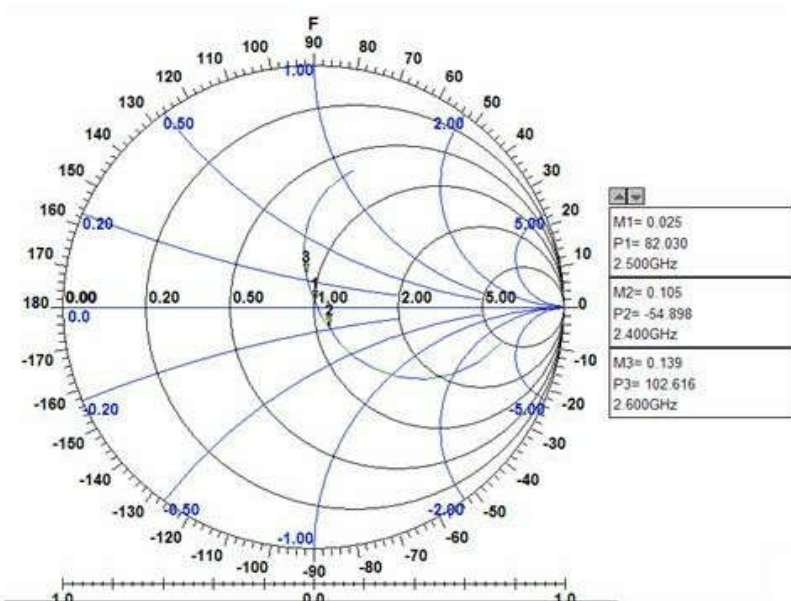
Mkr1: 2400MHz -19.59    Mkr2: 2450MHz -27.70    Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



### ⑥ Phase simulation

Mkr1: 2400MHz -54.89    Mkr2: 2500MHz -82.03    Mkr3: 2600MHz -102.6



Radiation pattern@2.441GHZ

| Phi       | 0 | 45   | 90   | 135  | 180  | 235  | 270  | 315  |
|-----------|---|------|------|------|------|------|------|------|
| Gain(dBi) | 0 | -0.1 | -0.3 | -0.6 | -0.1 | -0.2 | -0.5 | -0.4 |

