

Model Name: WiTalk9-SMH

Frequency: (2402~2480MHz)

Antenna Type: Chip Antenna

Manufactor: Dongguan hekan electronics co. LTD

Address: 1st floor, building C, yuanchuang power industrial park, no.24 tangjiao road,  
changping town, dongguan city, guangdong province, China

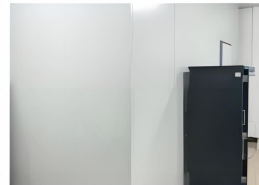
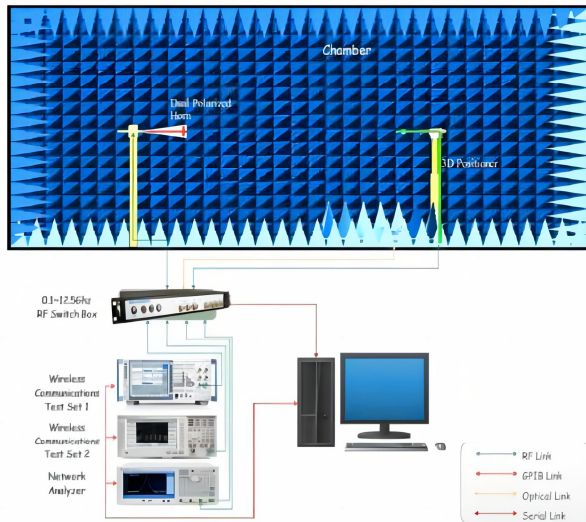
## Antenna matching report

| DIRECTORY |                               |
|-----------|-------------------------------|
| NO        | PROJECT                       |
| 1         | Test equipment and conditions |
| 2         | Match parameters              |
| 3         | Antenna S parameter           |
| 4         | Passive data                  |

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# Antenna matching report

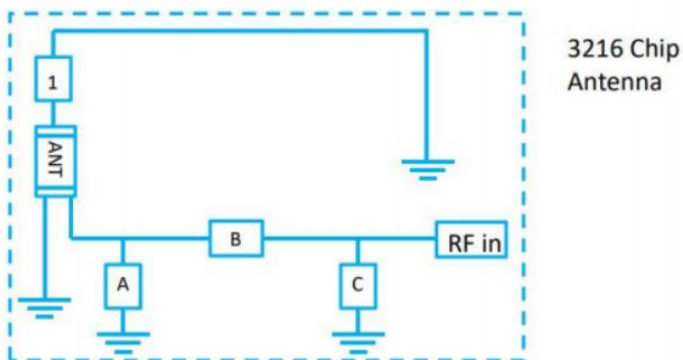
## 1、 Test equipment and conditions



| QUIPMENT         | BRAND         | MODULE  |
|------------------|---------------|---------|
| Network analyzer | Agilent       | E5071C  |
| Signal Generator | ROHDE&SCHWARZ | CMW-500 |
| Switch           | GuangPing     | SW-2    |
| Anechoic chamber | Guangping     | OTA-533 |

# Antenna matching report

## 2、 Match parameters

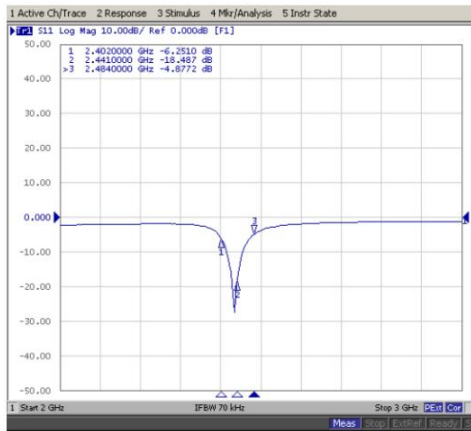


| NO | Product   | Description                 |
|----|-----------|-----------------------------|
| 1  | Capacitor | 0402 3.9pF $\pm 0.1$ pF 50V |
| A  | Capacitor | NC                          |
| B  | Resistor  | 0402 0R $\pm 5\%$           |
| C  | NC        | 0402 1.2pF $\pm 0.1$ pF 50V |

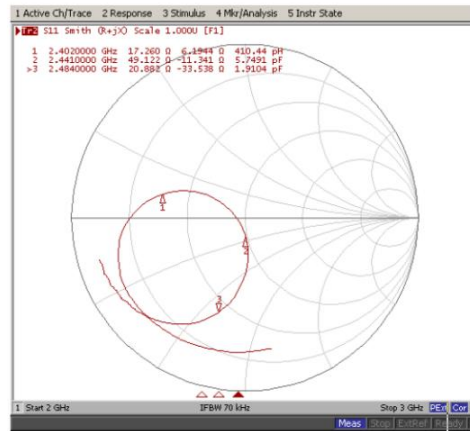
# Antenna matching report

## 3. Antenna S parameter

### Return Loss



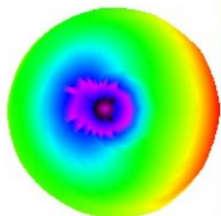
### Smith (R-jx)



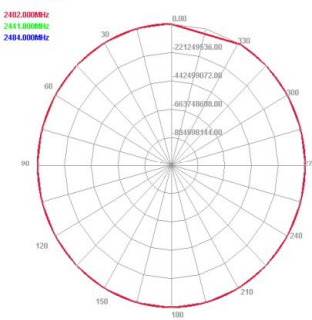
# Antenna matching report

## 4. Passive data

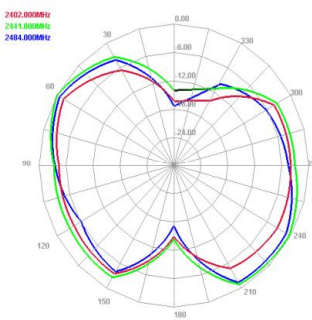
2441.000MHz



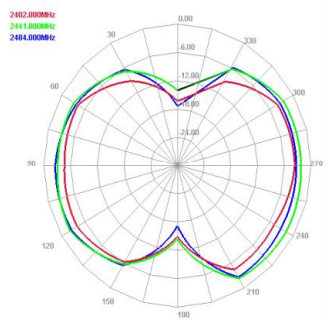
Horizontal



E1 Face



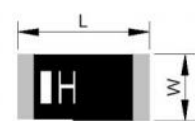
E2 Face



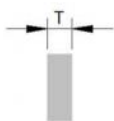
| Frequency | Efficiency(%) | Gain(dBi) |
|-----------|---------------|-----------|
| 2402MHz   | 25.04         | -1.19     |
| 2441MHz   | 38.1          | -0.21     |
| 2484MHz   | 20.1          | -3.35     |

### Dimension and Terminal Configuration

Top



Side



(1) (2)



Bottom

| Dimension (mm) |             |
|----------------|-------------|
| L              | 3.20+/-0.15 |
| W              | 1.60+/-0.15 |
| T              | 0.60+/-0.10 |
| D              | 0.50+/-0.15 |

| No. | Terminal Name |
|-----|---------------|
| 1   | Feeding       |
| 2   | Ground        |