

# Antenna Sample Datasheet

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| customer:          | Dongguan hunting sound<br>electronic technology Co., LTD |
| entry name:        | SU09                                                     |
| Material category: | BT antenna                                               |
| Antenna Type       | PIFA                                                     |
| Antenna Material   | Sheet steel antenna                                      |
| Date:              | 2025.4.7                                                 |

## Contents

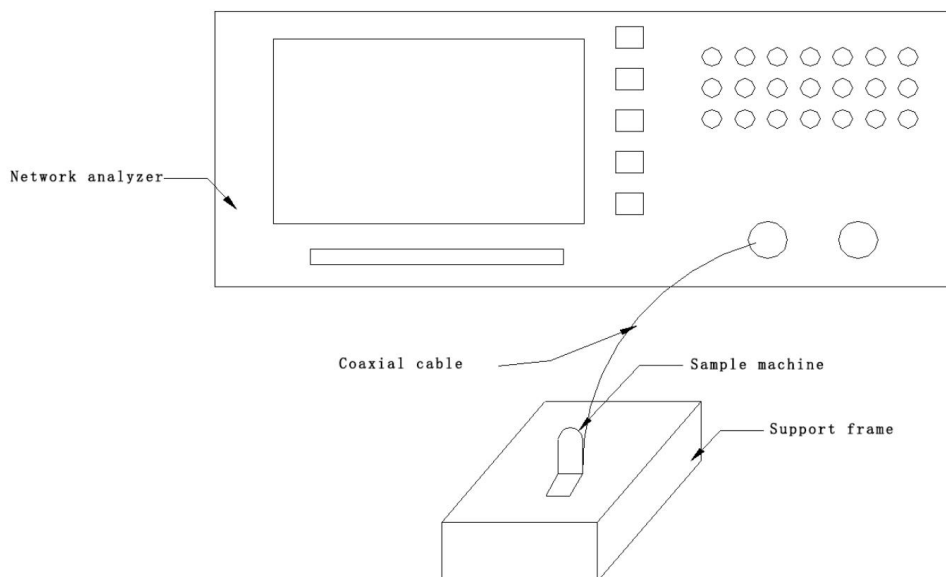
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## 1: Antenna test equipment

List of meters: Agilent 5071B;



### 1.1 The principle diagram of the ETS anechoic chamber



Picture1. Antenna static test connection method

## 1.2 Pictures of the ETS anechoic chamber



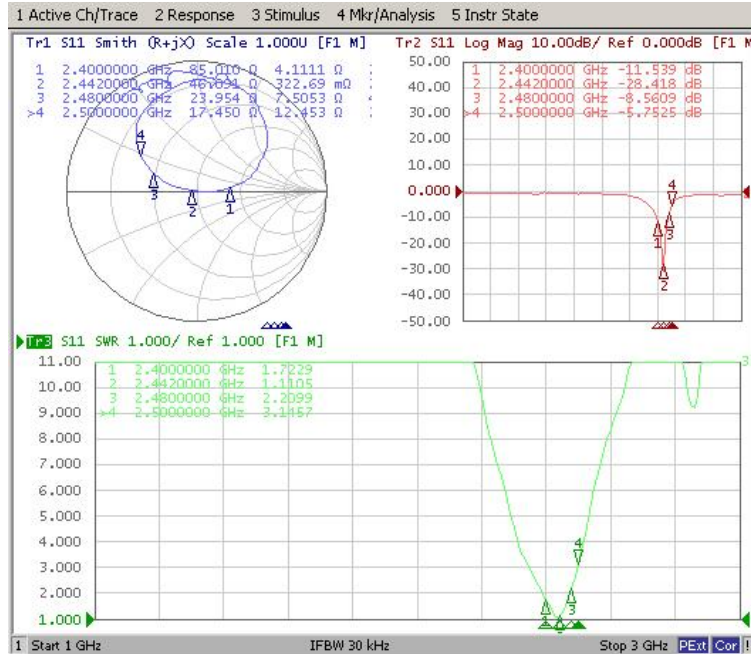
Inside the ETS anechoic chamber



Test Machine

## 2: Passive test report

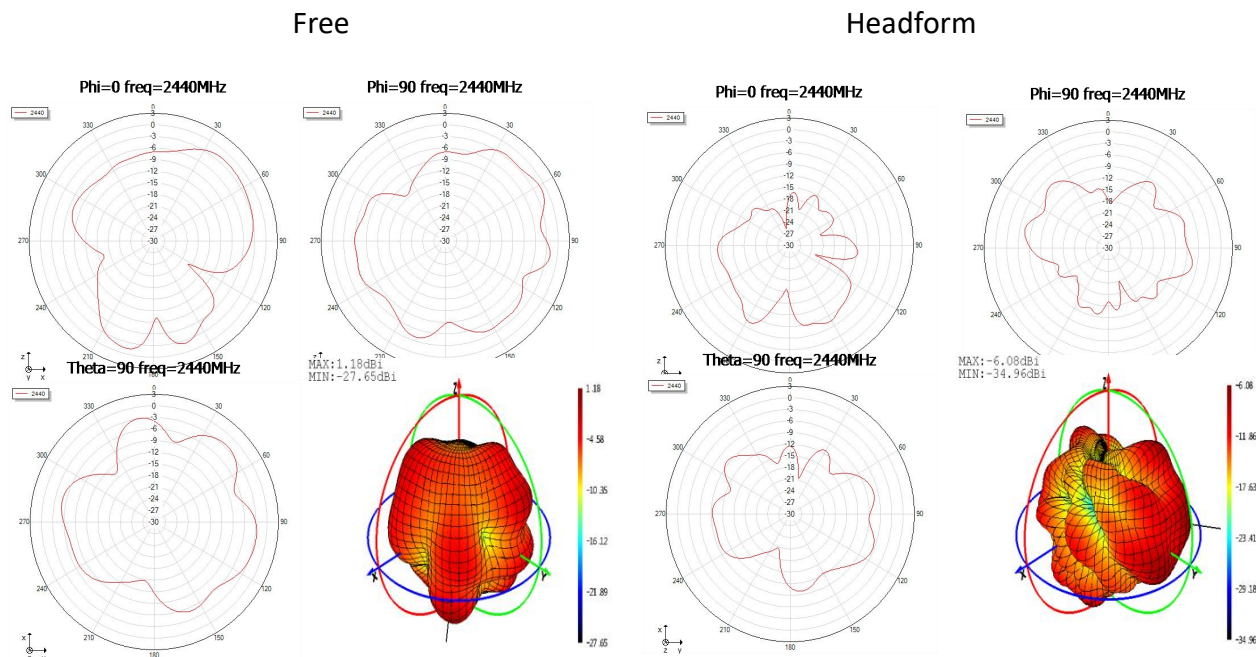
### 2.1: BT antenna S11 parameters



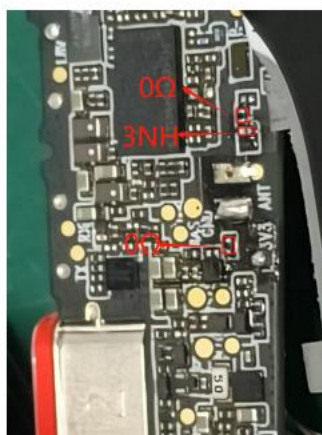
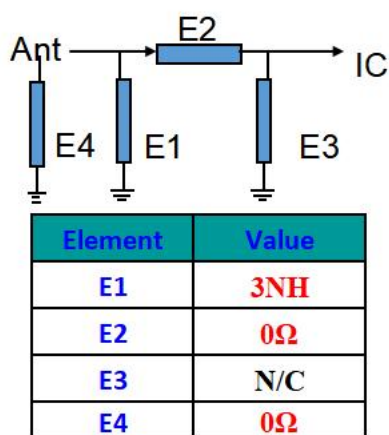
### 2.2: Passive efficiency of antenna

| 2400-2480MHz |           |               |           |               |
|--------------|-----------|---------------|-----------|---------------|
| Freq(MHz)    | Free      |               | Headform  |               |
|              | Gain(dBi) | Efficiency(%) | Gain(dBi) | Efficiency(%) |
| 2400         | 0.96      | 36.62         | -5.99     | 15.49         |
| 2410         | 1.03      | 36.66         | -6.15     | 15.55         |
| 2420         | 1.05      | 36.16         | -6.26     | 15.48         |
| 2430         | 1.24      | 36.79         | -6.18     | 15.4          |
| 2440         | 1.18      | 35.97         | -6.08     | 15.24         |
| 2450         | 1.19      | 35.25         | -5.88     | 15.02         |
| 2460         | 0.96      | 34.92         | -5.8      | 14.94         |
| 2470         | 0.86      | 34.66         | -5.67     | 15.01         |
| 2480         | 1         | 35.06         | -5.49     | 15.14         |
| Mean value   | 1.05      | 35.79         | -5.94     | 15.25         |

## 2.3: Passive pattern of BT antenna



## 3: Matching circuit



## 4: Antenna diagram

