

# SN6BHP WIFI2 Antenna Report

Antenna model: SN6BHP-WIFI2

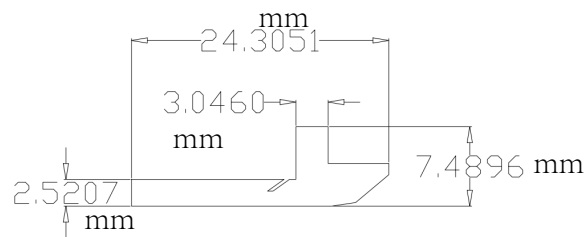
Antenna type: Monopole antenna

Trademark: \

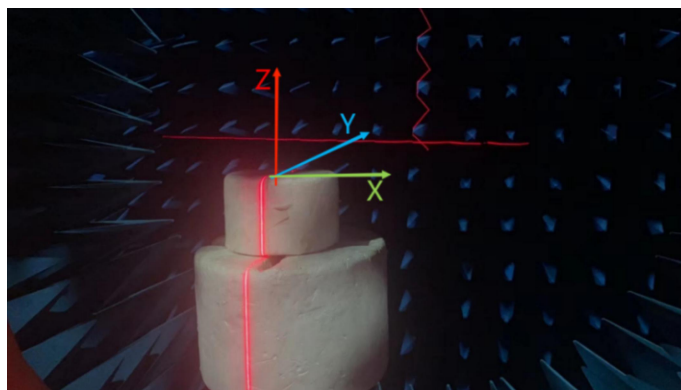
Frequency band: 2400~2500MHz, 5150~5850 MHz

Manufacturer information: SEI

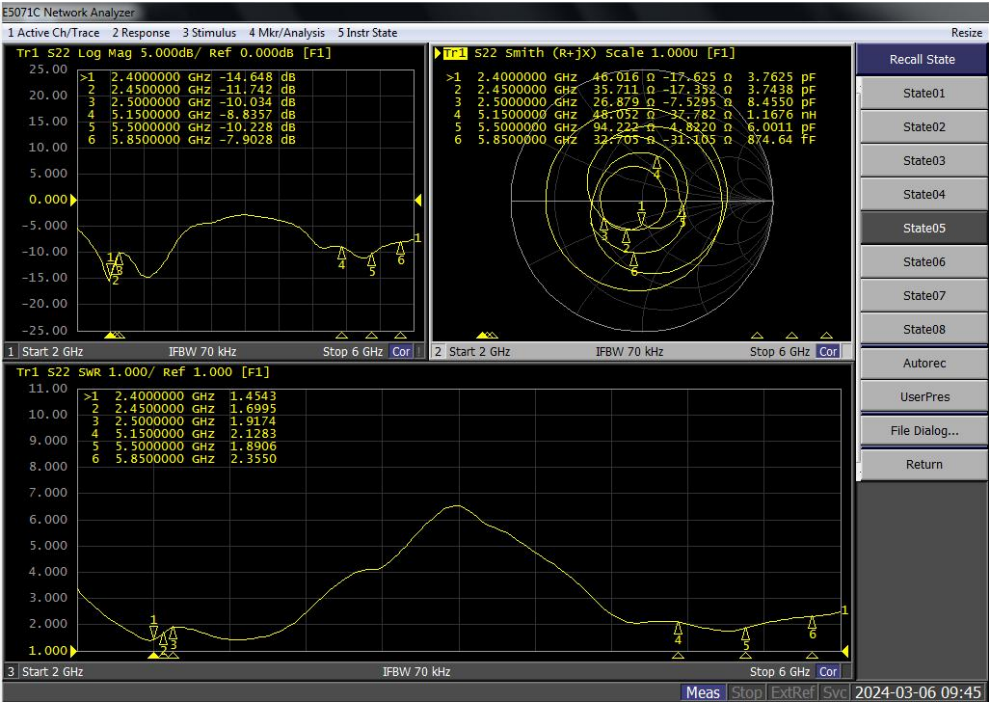
4th Floor, Productivity Building D, #5 Hi-Tech  
Middle 2nd Road, Shenzhen Hi-Tech Industrial  
Park, Nanshan District, Shenzhen, China



测试环境 Test environment



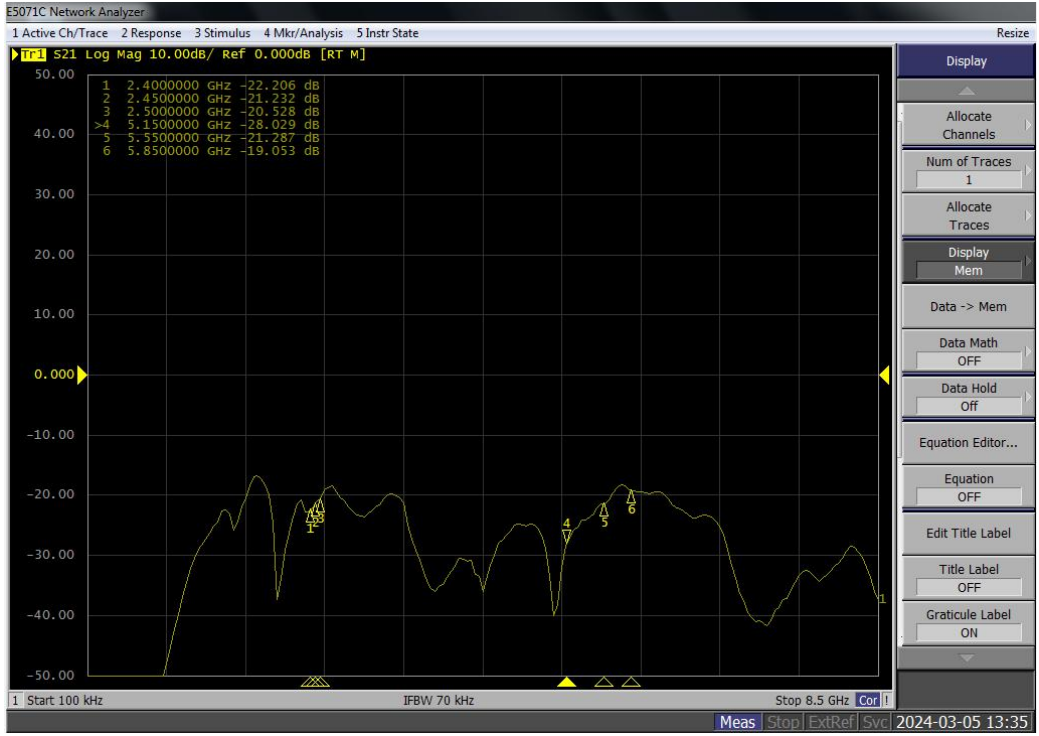
天线驻波比 SWR  
ANT2



BT 与 ANT2 隔离度 S21



ANT1 与 ANT2 隔离度 S21



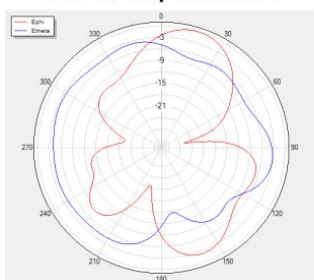
无源效率ANT2

| Gain&Efficiency<br>增益、效率 |                 |                     |
|--------------------------|-----------------|---------------------|
| frequency<br>频率(MHz)     | gain<br>增益(dBi) | efficiency<br>效率(%) |
| 2400                     | 1.75            | 51.86               |
| 2410                     | 1.27            | 50.51               |
| 2420                     | 0.77            | 48.58               |
| 2430                     | 0.55            | 49.05               |
| 2440                     | 0.29            | 49.13               |
| 2450                     | 0.19            | 50.02               |
| 2460                     | 0.26            | 52.29               |
| 2470                     | 0.32            | 50.64               |
| 2480                     | 0.31            | 50.37               |
| 2490                     | 0.43            | 51.11               |
| 2500                     | 0.6             | 51.14               |

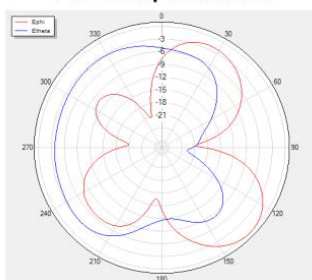
| Gain&Efficiency<br>增益、效率 |                 |                     |
|--------------------------|-----------------|---------------------|
| frequency<br>频率(MHz)     | gain<br>增益(dBi) | efficiency<br>效率(%) |
| 5100                     | 0.81            | 45.33               |
| 5150                     | 0.7             | 46.08               |
| 5200                     | 0.03            | 47.56               |
| 5250                     | 0.83            | 49.35               |
| 5300                     | 0.7             | 50.63               |
| 5350                     | 0.64            | 51.01               |
| 5400                     | 0.83            | 50.91               |
| 5450                     | 0.13            | 49.63               |
| 5500                     | 0.25            | 49.79               |
| 5550                     | 0.18            | 49.39               |
| 5600                     | 0.24            | 49.21               |
| 5650                     | 0.33            | 48.9                |
| 5700                     | 0.31            | 47.39               |
| 5750                     | 0.18            | 47.4                |
| 5800                     | 0.37            | 46.26               |
| 5850                     | 0.74            | 46.26               |
| 5900                     | 0.26            | 45.36               |

## 2D3D 方向图ANT2 dBi

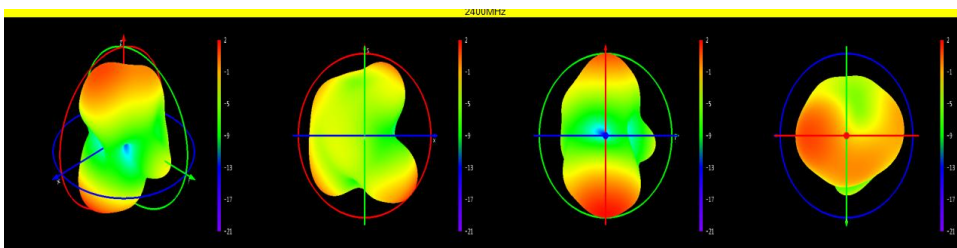
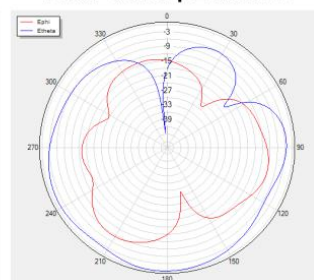
Phi=90 freq=2400MHz



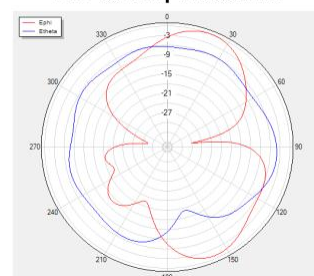
Phi=0 freq=2400MHz



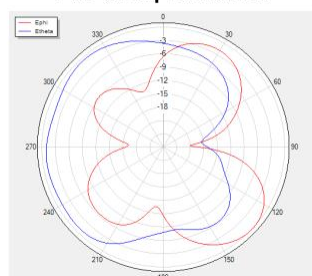
Theta=90 freq=2400MHz



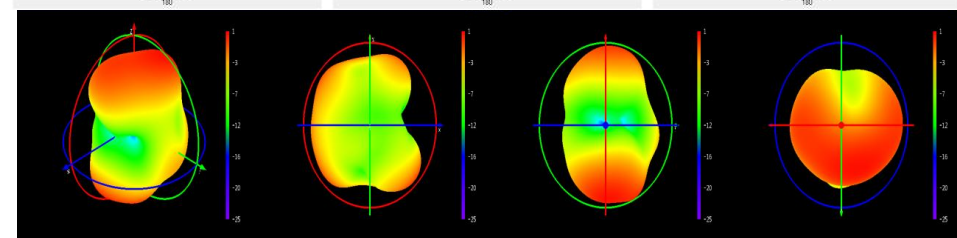
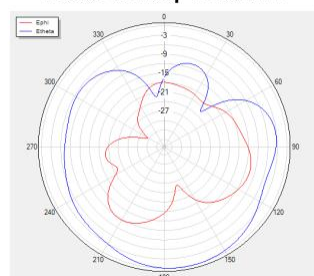
Phi=90 freq=2450MHz



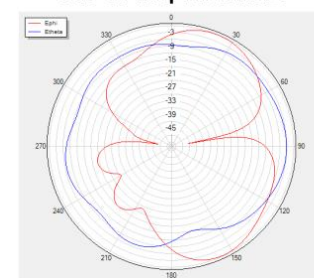
Phi=0 freq=2450MHz



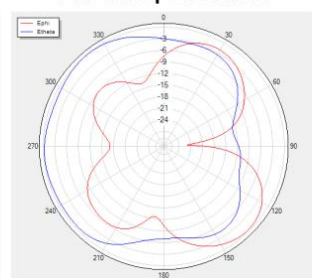
Theta=90 freq=2450MHz



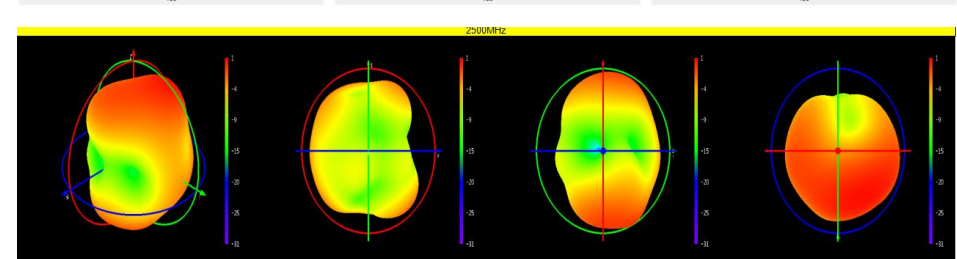
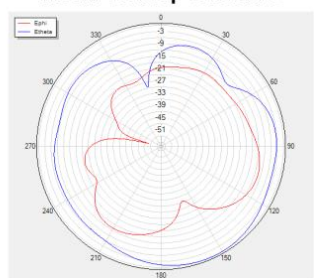
Phi=90 freq=2500MHz



Phi=0 freq=2500MHz

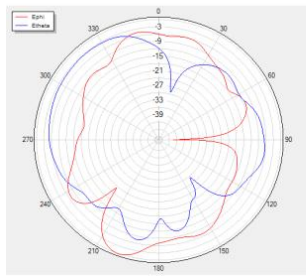


Theta=90 freq=2500MHz

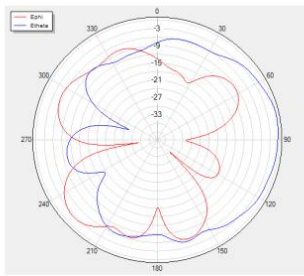


dBi

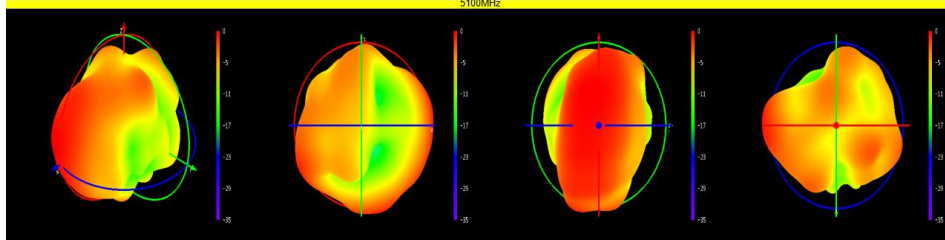
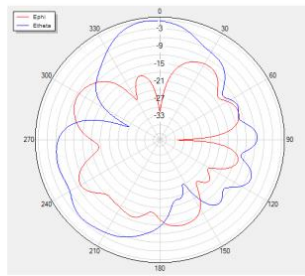
Phi=90 freq=5100MHz



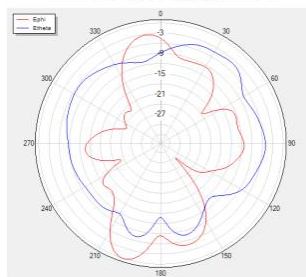
Phi=0 freq=5100MHz



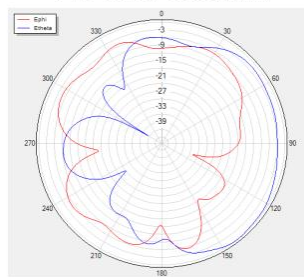
Theta=90 freq=5100MHz



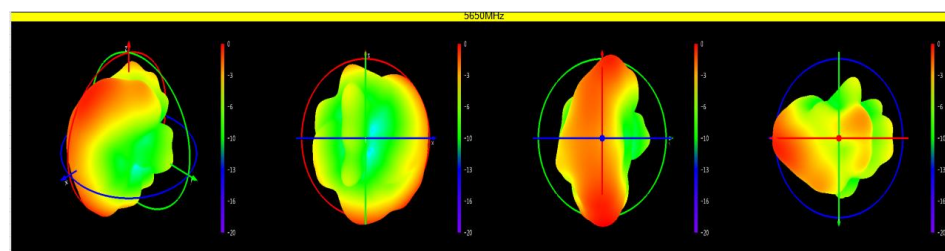
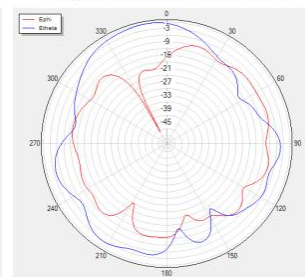
Phi=90 freq=5650MHz



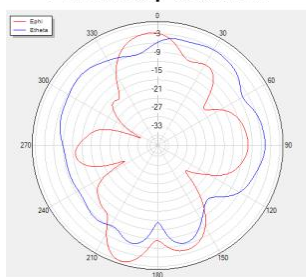
Phi=0 freq=5650MHz



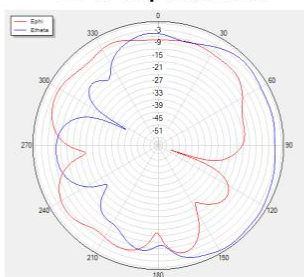
Theta=90 freq=5650MHz



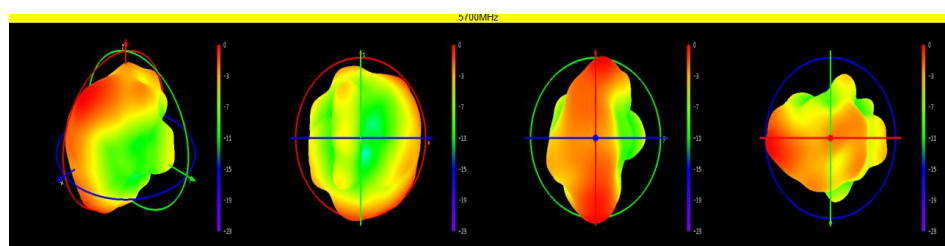
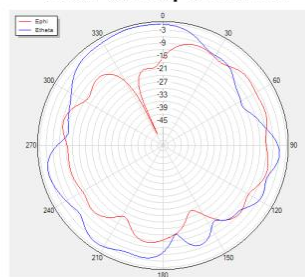
Phi=90 freq=5700MHz



Phi=0 freq=5700MHz



Theta=90 freq=5700MHz



有源数据

| Test            | Wifi 2G TRP |       |       |  | Test            | Wifi 2G TIS |        |        |
|-----------------|-------------|-------|-------|--|-----------------|-------------|--------|--------|
| CH              | 1           | 6     | 13    |  | CH              | 1           | 6      | 13     |
| Frequency (MHz) | 2412        | 2437  | 2472  |  | Frequency (MHz) | 2412        | 2437   | 2472   |
| TRP(dBm)        | 15.55       | 18.49 | 17.97 |  | TIS(dBm)        | -74.37      | -56.42 | -68.55 |

Test mode: 802.11a    54Mbps    BW 20M

| Test            | Wifi 5G TRP |       |       |  | Test            | Wifi 5G TIS |        |        |
|-----------------|-------------|-------|-------|--|-----------------|-------------|--------|--------|
| CH              | 36          | 100   | 165   |  | CH              | 36          | 100    | 165    |
| Frequency (MHz) | 5180        | 5500  | 5825  |  | Frequency (MHz) | 5180        | 5500   | 5825   |
| TRP(dBm)        | 19.1        | 17.14 | 18.49 |  | TIS(dBm)        | -80.31      | -79.78 | -78.57 |