

# Antenna Product Specification

|                      |                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Entry Name           | SP6980A                                                                                                           |
| Frequency Channel    | WCN: GPS/BT/2.4G/5G/                                                                                              |
| Supplier Name        | Zhejiang Haitong communication electronic Limited by Share Ltd Shanghai Branch                                    |
| Manufacturer Address | 1F, Building C5, Caohejing Kangqiao Business Oasis, No. 2555 Xiupu Road, Kangqiao Town, Pudong New Area, Shanghai |

## 1. Type of Antenna: PIFA (WIFI&BT)

**Antenna attachment type: Fixed/Internal mounted**

**Test chamber: satimo SG 24**

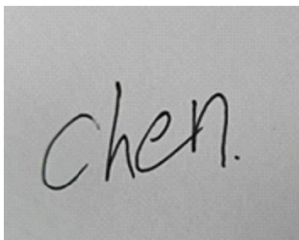
**Testing software: SPM 1.8**

**Test instrument and calibration date:**

**E5071C: 20240410-20250410**

**CMW500: 20240410-20250410**

**Engineer's signature:**



**Photo of the antenna test:**

## 2. Gain

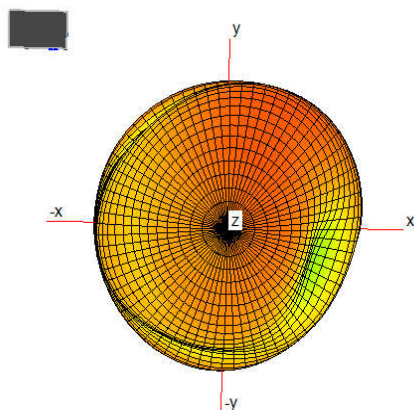
### WIFI&BT Gain

| Freq (MHz)     | Peak Gain(dBi) |
|----------------|----------------|
| 2400~2483.5MHz | 1.2            |
| 5150~5250MHz   | 0.3            |
| 5250~5350MHz   | 0.3            |
| 5470~5725MHz   | 1.8            |
| 5725~5850MHz   | 2.3            |
| 1575MHz        | -0.9           |

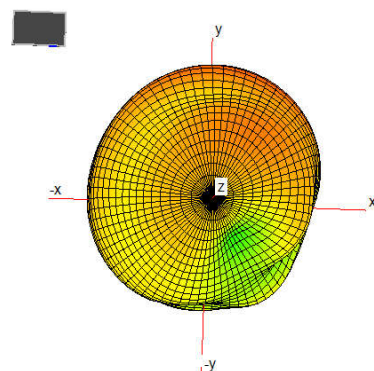
## 3. 3D Directional Pattern

### WIFI&BT

1575MHZ

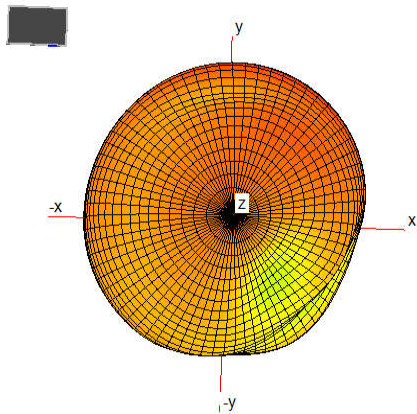


2400MHZ

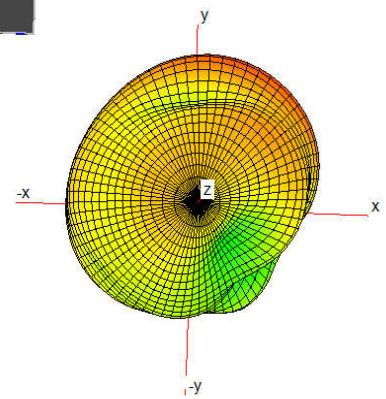


2450MHZ

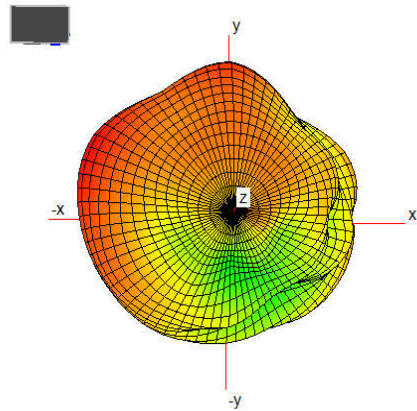
2500MHZ



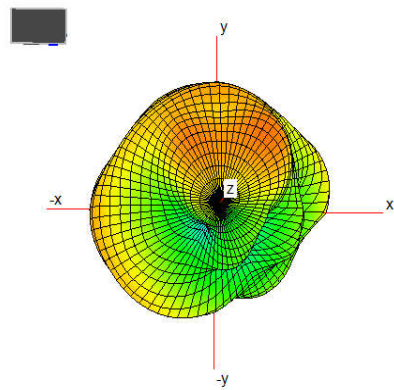
**5150MHZ**



**5350MHZ**



**5850MHZ**



|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entry Name           | SP6980A-NFC                                                                                                                                                                   |
| Frequency Channel    | NFC 13.56MHZ                                                                                                                                                                  |
| Supplier Name        | Shenzhen Etheta Communication Technology Co., LTD.                                                                                                                            |
| Manufacturer Address | Area B&D , floor 3,building 1 , Baisha<br>Technology Industrial Park , No.3011, , Shahe<br>West Load , Nanshan District , Shenzhen<br>( 518055 ) , Guangdong Province , China |
| Dimensions           | 0.75mm                                                                                                                                                                        |

**Type of Antenna: LOOP Antenna (NFC)**