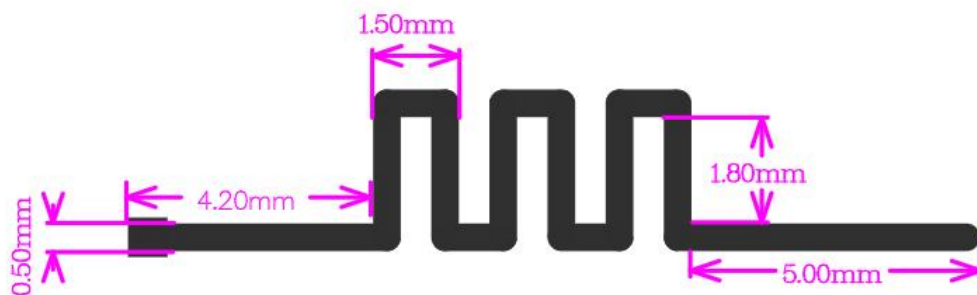


## **Features**

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| (1)Antenna Model           | Onboard antenna                                                                          |
| (2)Antenna type            | Serpentine antenna                                                                       |
| (3)Antenna length          | 27.5mm                                                                                   |
| (4)Antenna width           | 0.5mm                                                                                    |
| (5)Frequency               | 2400~2500 MHz                                                                            |
| (6)Manufacturer            | XichenTechnology(shenzhen)<br>Co.,Ltd                                                    |
| (7)Manufacturer<br>address | 5011,Building34,Chentian<br>IndustrialZone,<br>XixiangStreet,Bao'anDistrict,<br>Shenzhen |

## **Model name:Generic Antenna**

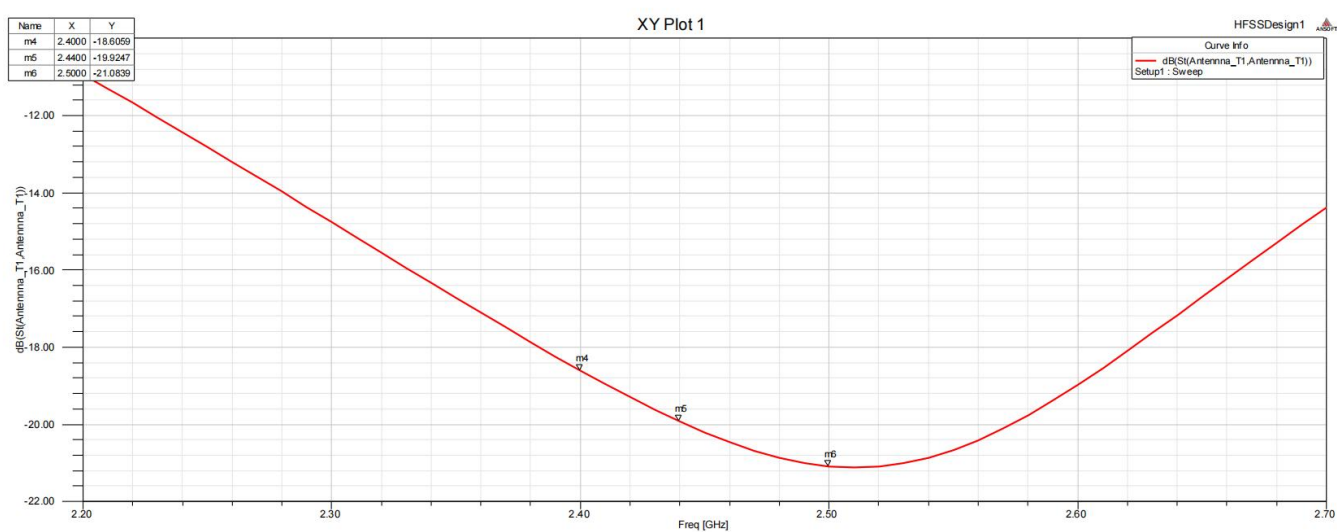


## **Electrical Specification**

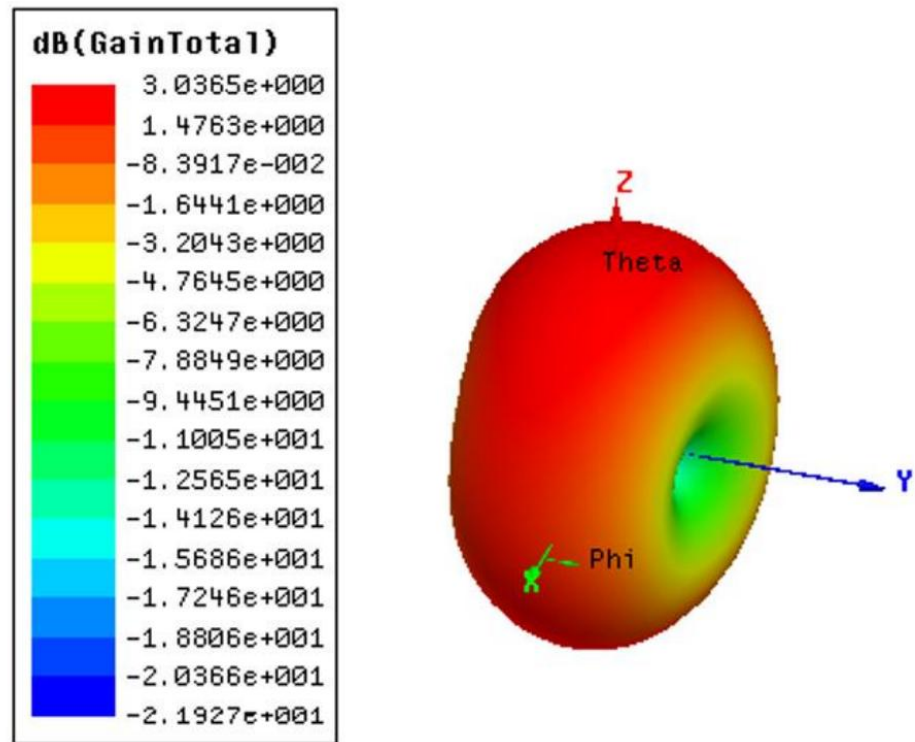
|                            |                |
|----------------------------|----------------|
| (1)Working Frequency Range | 2400~2500 MHz  |
| (2)Peak Gain               | 3.03dBi (Typ.) |
| (3)Impedance               | 50 Ohm         |

|                      |                  |
|----------------------|------------------|
| (4)VSWR              | 3.0(Max)         |
| (5)Polarization      | Linear           |
| (6)Azimuth Beamwidth | Omni-directional |

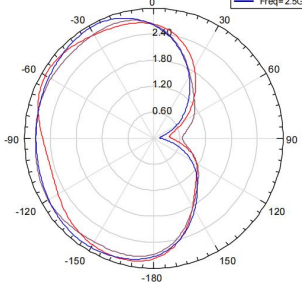
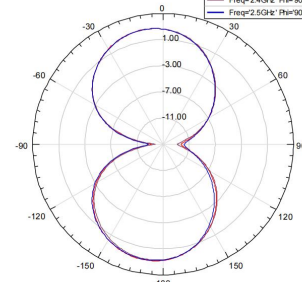
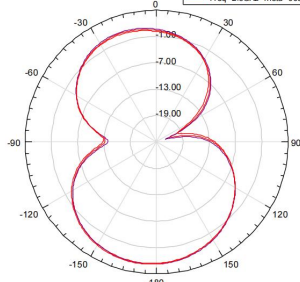
**S11 Figure**



## Radiation Figure



## Antenna Radiation Pattern

|                                                                                                                                                                                                                                                                                                                                                                            | ZX plane              |         | ZY plane               |                       | XY plane              |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|------------------------|-----------------------|-----------------------|---------|-----------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------|-----|-------------------------|--------|------------------------|--------|------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------|-----|---------------------------|--------|--------------------------|--------|--------------------------|--------|
| Frequency                                                                                                                                                                                                                                                                                                                                                                  | Max Value             | Average | Max Value              | Average               | Max Value             | Average |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| [MHz]                                                                                                                                                                                                                                                                                                                                                                      | [dBi]                 | [dBi]   | [dBi]                  | [dBi]                 | [dBi]                 | [dBi]   |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| 2400                                                                                                                                                                                                                                                                                                                                                                       | 3.03                  | 2.09    | 2.93                   | -3.00                 | 2.67                  | -4.14   |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| 2450                                                                                                                                                                                                                                                                                                                                                                       | 2.83                  | 2.13    | 2.78                   | -3.12                 | 2.81                  | -4.13   |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| 2500                                                                                                                                                                                                                                                                                                                                                                       | 2.95                  | 2.07    | 2.87                   | -3.00                 | 2.89                  | -4.05   |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Radiation Pattern XOZ                                                                                                                                                                                                                                                                                                                                                      | Radiation Pattern YOZ |         |                        | Radiation Pattern XOY |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| <div><div>XOZ</div><div>HFSSDes</div><div><table><tr><th>Curve Info</th><th>max</th></tr><tr><td>Freq=2.45GHz, Phi=0deg</td><td>2.908</td></tr><tr><td>Freq=2.4GHz, Phi=0deg</td><td>2.833</td></tr><tr><td>Freq=2.5GHz, Phi=0deg</td><td>2.946</td></tr></table></div><div></div></div> | Curve Info            | max     | Freq=2.45GHz, Phi=0deg | 2.908                 | Freq=2.4GHz, Phi=0deg | 2.833   | Freq=2.5GHz, Phi=0deg | 2.946 | <div><div>YOZ</div><div>HFSSDesign</div><div><table><tr><th>Curve Info</th><th>max</th></tr><tr><td>Freq=2.45GHz, Phi=90deg</td><td>2.9354</td></tr><tr><td>Freq=2.4GHz, Phi=90deg</td><td>2.7809</td></tr><tr><td>Freq=2.5GHz, Phi=90deg</td><td>2.8668</td></tr></table></div><div></div></div> |  |  | Curve Info | max | Freq=2.45GHz, Phi=90deg | 2.9354 | Freq=2.4GHz, Phi=90deg | 2.7809 | Freq=2.5GHz, Phi=90deg | 2.8668 | <div><div>XOY</div><div>HFSSDesign</div><div><table><tr><th>Curve Info</th><th>max</th></tr><tr><td>Freq=2.45GHz, Theta=90deg</td><td>2.8711</td></tr><tr><td>Freq=2.4GHz, Theta=90deg</td><td>2.8128</td></tr><tr><td>Freq=2.5GHz, Theta=90deg</td><td>2.8940</td></tr></table></div><div></div></div> |  |  | Curve Info | max | Freq=2.45GHz, Theta=90deg | 2.8711 | Freq=2.4GHz, Theta=90deg | 2.8128 | Freq=2.5GHz, Theta=90deg | 2.8940 |
| Curve Info                                                                                                                                                                                                                                                                                                                                                                 | max                   |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.45GHz, Phi=0deg                                                                                                                                                                                                                                                                                                                                                     | 2.908                 |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.4GHz, Phi=0deg                                                                                                                                                                                                                                                                                                                                                      | 2.833                 |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.5GHz, Phi=0deg                                                                                                                                                                                                                                                                                                                                                      | 2.946                 |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Curve Info                                                                                                                                                                                                                                                                                                                                                                 | max                   |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.45GHz, Phi=90deg                                                                                                                                                                                                                                                                                                                                                    | 2.9354                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.4GHz, Phi=90deg                                                                                                                                                                                                                                                                                                                                                     | 2.7809                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.5GHz, Phi=90deg                                                                                                                                                                                                                                                                                                                                                     | 2.8668                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Curve Info                                                                                                                                                                                                                                                                                                                                                                 | max                   |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.45GHz, Theta=90deg                                                                                                                                                                                                                                                                                                                                                  | 2.8711                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.4GHz, Theta=90deg                                                                                                                                                                                                                                                                                                                                                   | 2.8128                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |
| Freq=2.5GHz, Theta=90deg                                                                                                                                                                                                                                                                                                                                                   | 2.8940                |         |                        |                       |                       |         |                       |       |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |            |     |                         |        |                        |        |                        |        |                                                                                                                                                                                                                                                                                                                                                                                            |  |  |            |     |                           |        |                          |        |                          |        |