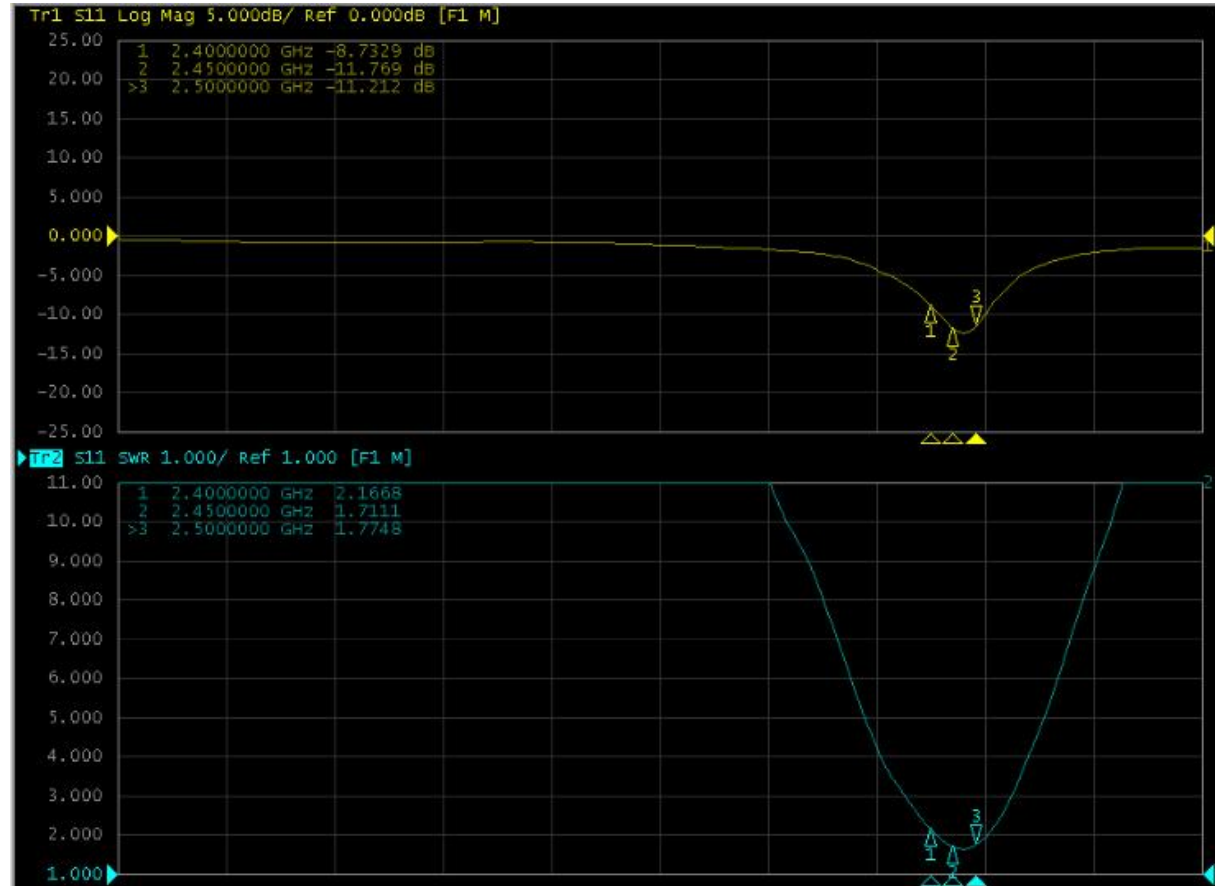
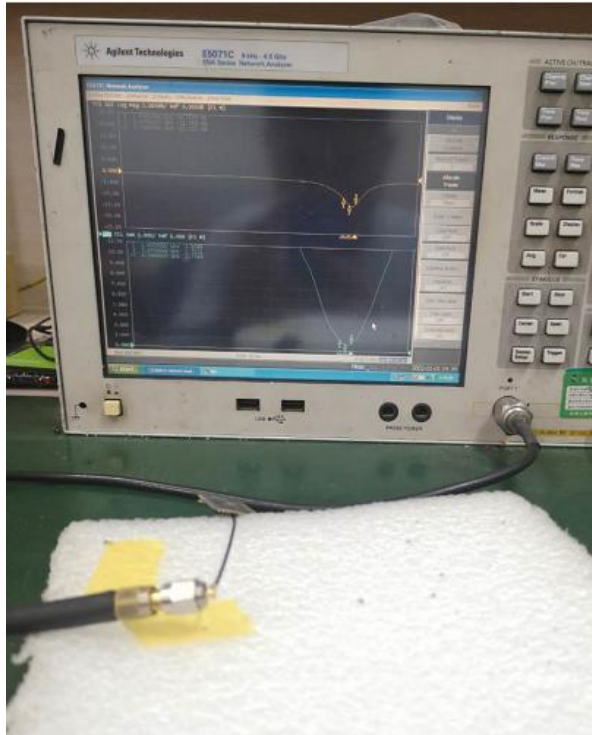
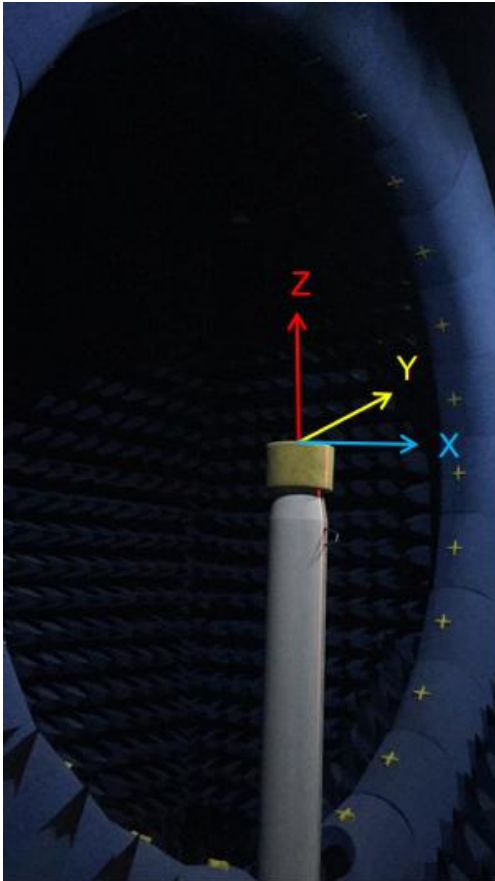


|               |              |
|---------------|--------------|
| MANUFACTURER: | TUYA         |
| PRODUCT NAME: | WBR3 ANTENNA |
| ANTENNA TYPE: | PCB          |
| WRITED:       | Long Wang    |
| DATE:         | 20190520     |
| VERSIONS:     | A            |

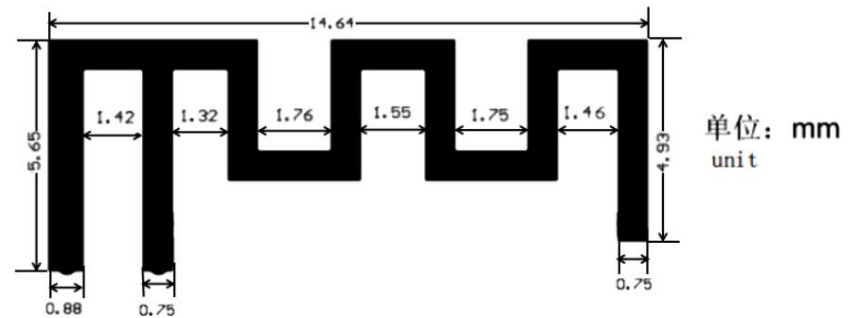


|                 |       |        |        |
|-----------------|-------|--------|--------|
| Frequency (MHz) | 2400  | 2450   | 2500   |
| Return Loss     | -8.73 | -11.76 | -11.21 |
| VSWR            | 2.16  | 1.71   | 1.77   |

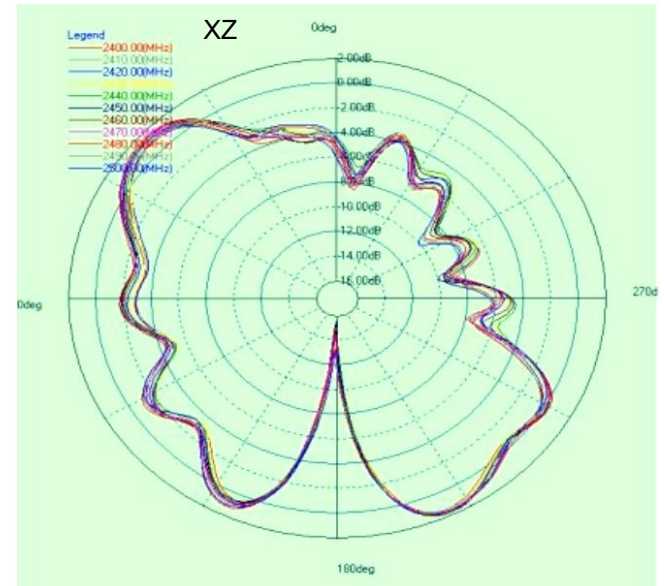
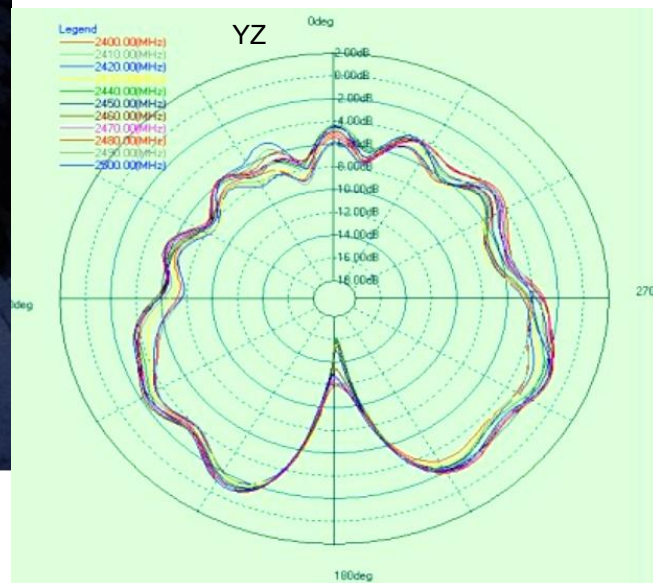
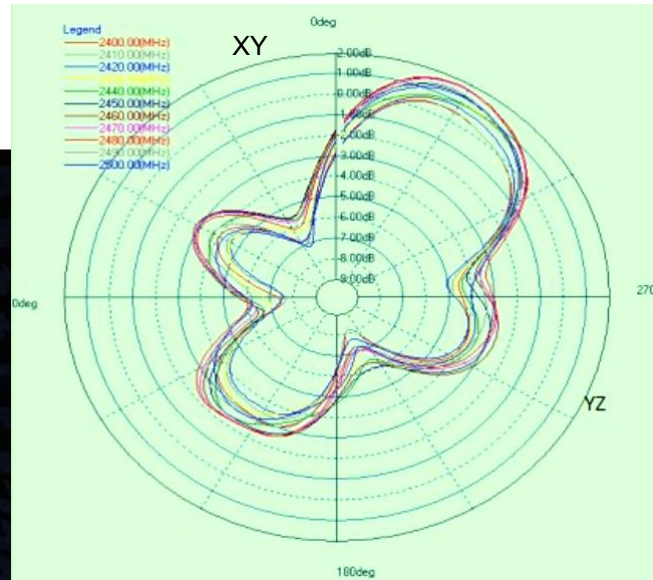
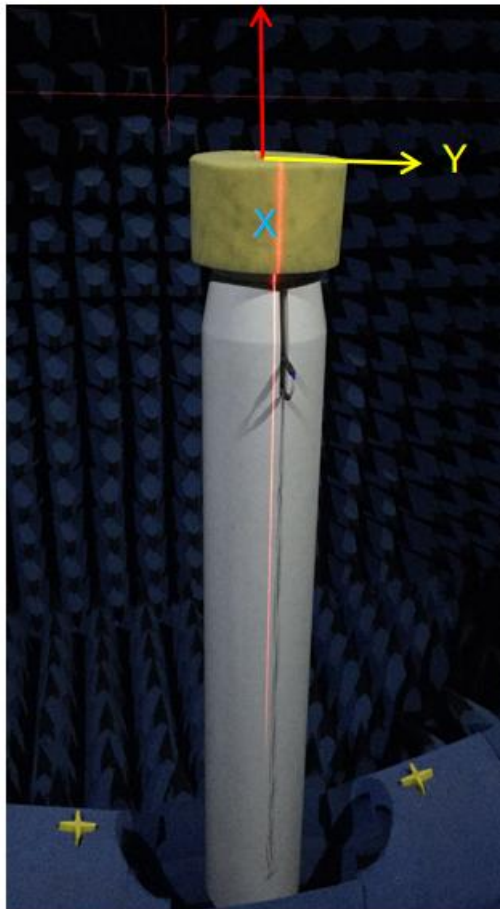
### Test Setup



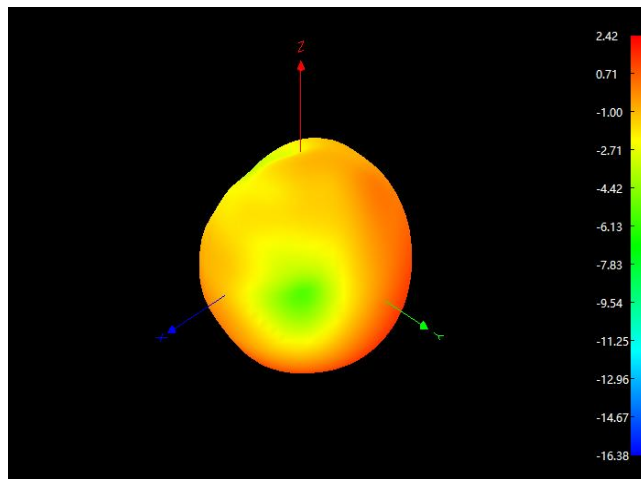
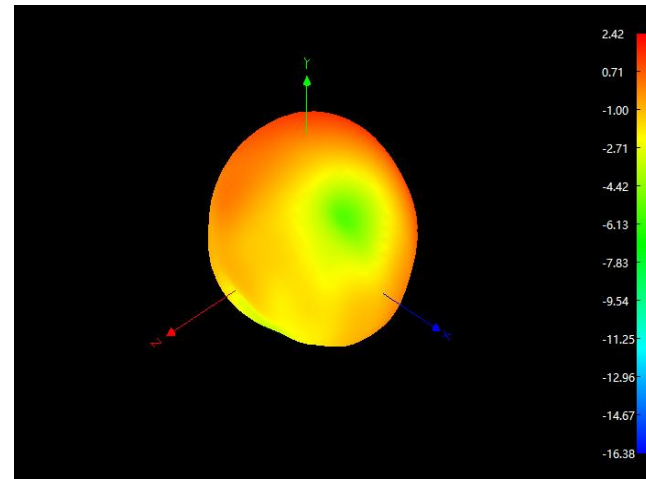
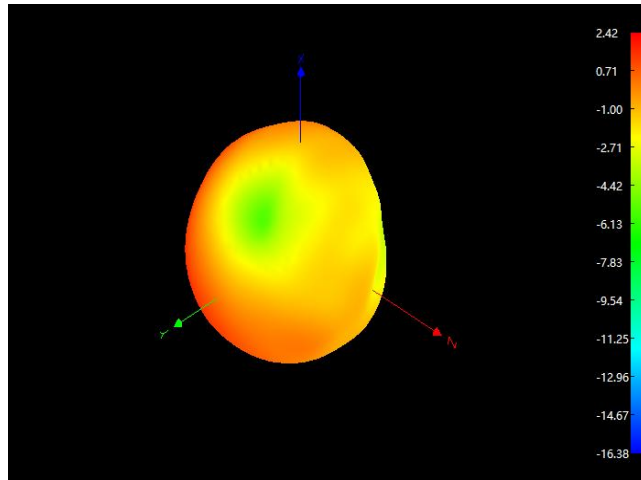
### Antenna Size



2D



### 3D



| Freq. (MHz) | Effi (%) | Gain (dBi) |
|-------------|----------|------------|
| 2400        | 52.29    | 1.62       |
| 2410        | 52.17    | 1.71       |
| 2420        | 53.14    | 1.93       |
| 2430        | 54.16    | 1.98       |
| 2440        | 57.62    | 2.00       |
| 2450        | 59.64    | 2.17       |
| 2460        | 61.55    | 2.45       |
| 2470        | 60.64    | 2.38       |
| 2480        | 62.86    | 2.54       |
| 2490        | 59.85    | 2.30       |
| 2500        | 60.41    | 2.49       |