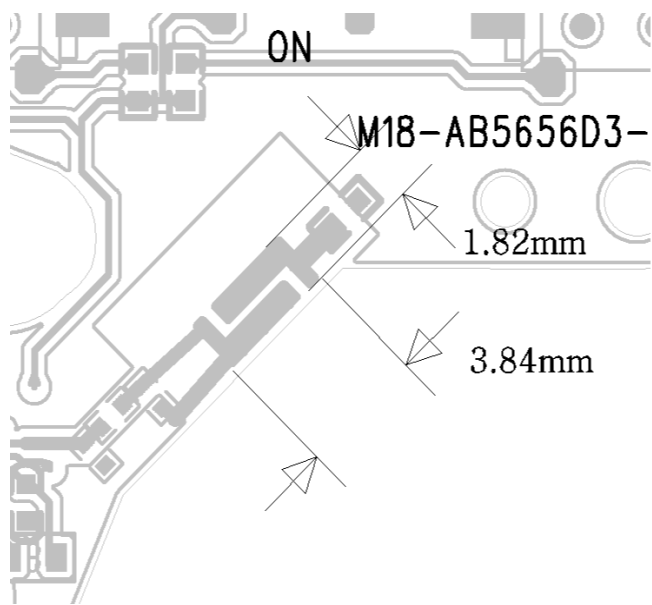


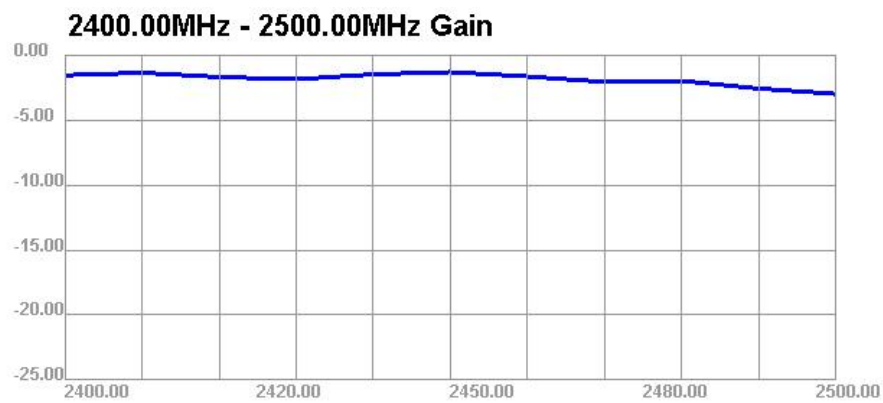
# Antenna Specification

|                   |                  |     |
|-------------------|------------------|-----|
| Antenna type      | Bipolar Antennas |     |
| Working Frequency | 2.4 ~ 2.5        | GHz |
| Central Frequency | 2450             | MHz |
| Gain max          | -1.3             | DBi |
| Impedance         | 50               | Ohm |

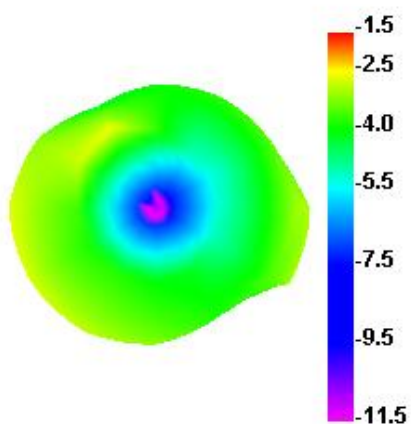


ManufacturerModelnumber:HuaZichengTechnology  
Co.,LTD.,5thFloor,BuildingB,No.6,DongcailIndustrial  
Park,Gushu,Shenzhen  
modelnumber: BZ-22

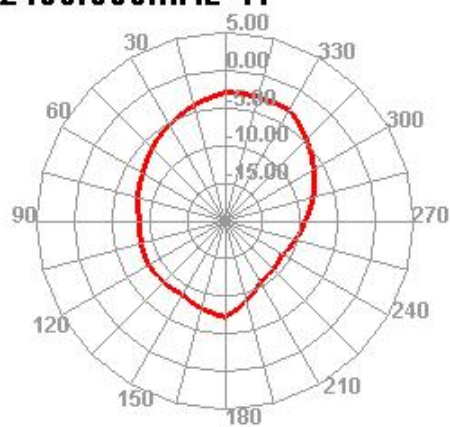
| Passive Test For BT2.4 |             |              |                   |                   |                 |                 |             |             |                          |                        |              |              |
|------------------------|-------------|--------------|-------------------|-------------------|-----------------|-----------------|-------------|-------------|--------------------------|------------------------|--------------|--------------|
| Freq<br>(MHz<br>)      | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi<br>) | Gain<br>(dBd<br>) | UHI<br>S<br>(%) | DHI<br>S<br>(%) | Max<br>(dB) | Min<br>(dB) | Directivi<br>ty<br>(dBi) | Beamwid<br>th<br>(3dB) | AttH<br>(dB) | AttV<br>(dB) |
| 2400                   | 30.0<br>5   | -5.2<br>2    | -1.5<br>4         | -3.6<br>9         | 0               | 0               | -1.5<br>4   | -12.0<br>7  | 5.22                     | 30                     | 47.3<br>6    | 46.8<br>6    |
| 2410                   | 30.8<br>9   | -5.1         | -1.3<br>5         | -3.5              | 0               | 0               | -1.3<br>5   | -11.5<br>1  | 5.1                      | 30                     | 47.4         | 46.9         |
| 2420                   | 28.6<br>4   | -5.4<br>3    | -1.6<br>9         | -3.8<br>4         | 0               | 0               | -1.6<br>9   | -11.9<br>2  | 5.43                     | 90                     | 47.2<br>8    | 46.7<br>6    |
| 2430                   | 27.6        | -5.5<br>9    | -1.8<br>5         | -4                | 0               | 0               | -1.8<br>5   | -12.4<br>2  | 5.59                     | 90                     | 47.3<br>5    | 46.7<br>8    |
| 2440                   | 30.3<br>5   | -5.1<br>8    | -1.4<br>8         | -3.6<br>3         | 0               | 0               | -1.4<br>8   | -11.8<br>8  | 5.18                     | 90                     | 47.1<br>5    | 46.6<br>5    |
| 2450                   | 32.2<br>1   | -4.9<br>2    | -1.3              | -3.4<br>5         | 0               | 0               | -1.3        | -11.6<br>6  | 4.92                     | 90                     | 47.3<br>3    | 46.8<br>5    |
| 2460                   | 30.3        | -5.1<br>9    | -1.6<br>4         | -3.7<br>9         | 0               | 0               | -1.6<br>4   | -12.2<br>3  | 5.19                     | 90                     | 47.7<br>2    | 47.2<br>2    |
| 2470                   | 28.6<br>7   | -5.4<br>3    | -2.0<br>6         | -4.2<br>1         | 0               | 0               | -2.0<br>6   | -13.0<br>9  | 5.43                     | 180                    | 47.3<br>6    | 46.9<br>3    |
| 2480                   | 30.2<br>1   | -5.2         | -1.9<br>8         | -4.1<br>3         | 0               | 0               | -1.9<br>8   | -13.4       | 5.2                      | 180                    | 47.5<br>6    | 47.1         |
| 2490                   | 27.5<br>2   | -5.6         | -2.5<br>7         | -4.7<br>2         | 0               | 0               | -2.5<br>7   | -14.3<br>5  | 5.6                      | 180                    | 47.0<br>5    | 46.6<br>7    |
| 2500                   | 25.6<br>5   | -5.9<br>1    | -2.9<br>8         | -5.1<br>3         | 0               | 0               | -2.9<br>8   | -14.8<br>4  | 5.91                     | 90                     | 47.0<br>1    | 46.6<br>3    |



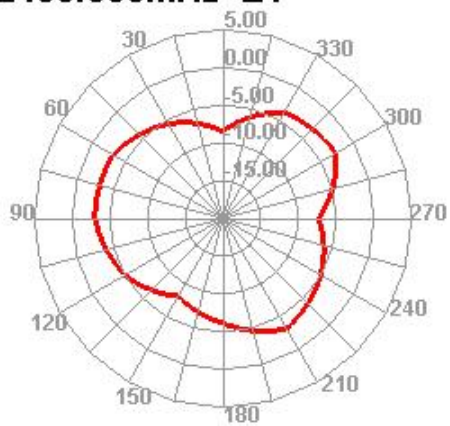
2400.000MHz



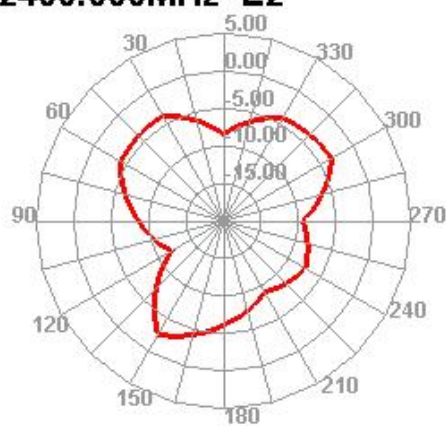
2400.000MHz H



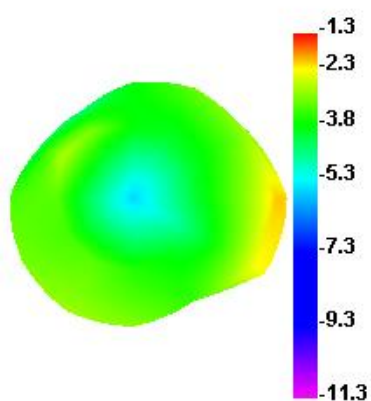
2400.000MHz E1



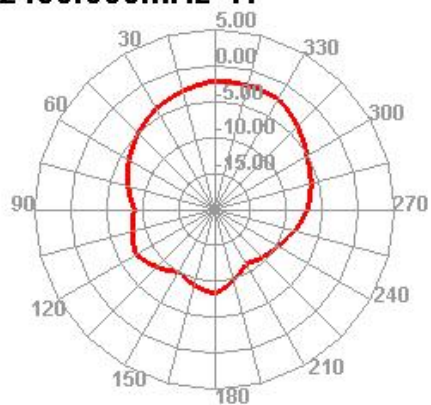
2400.000MHz E2



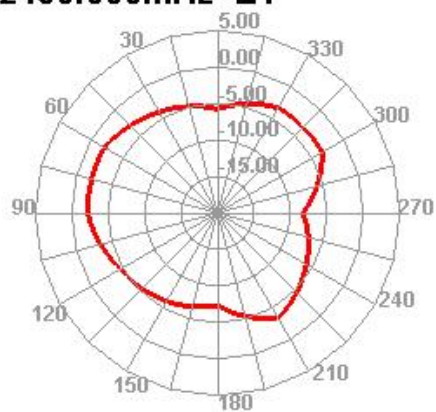
2450.000MHz



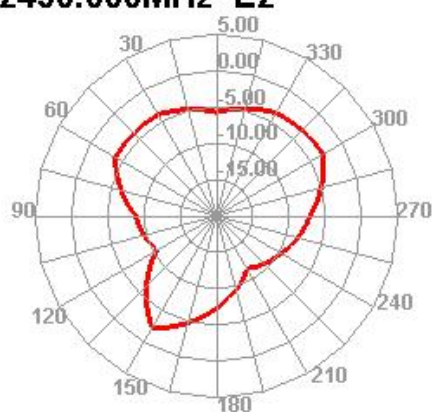
2450.000MHz H



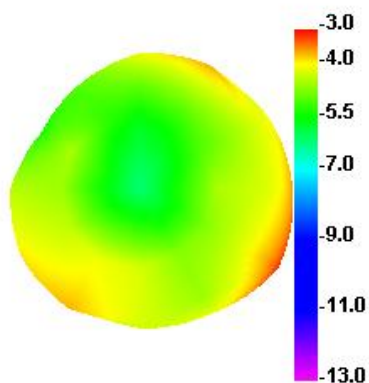
2450.000MHz E1



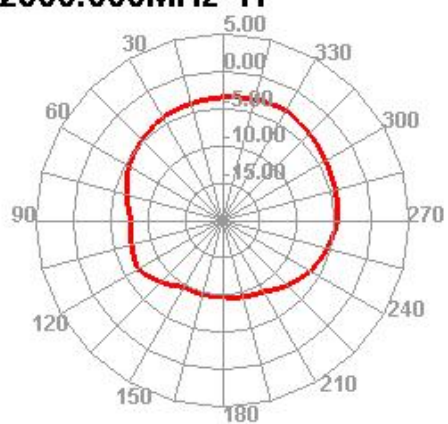
2450.000MHz E2



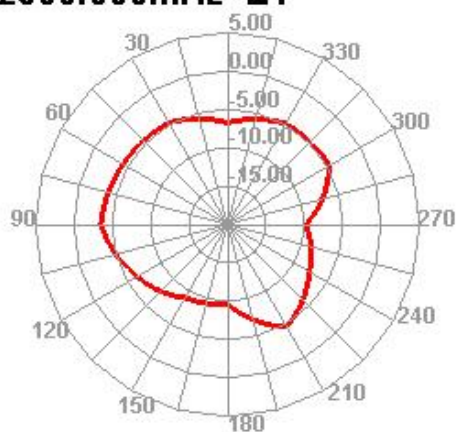
2500.000MHz



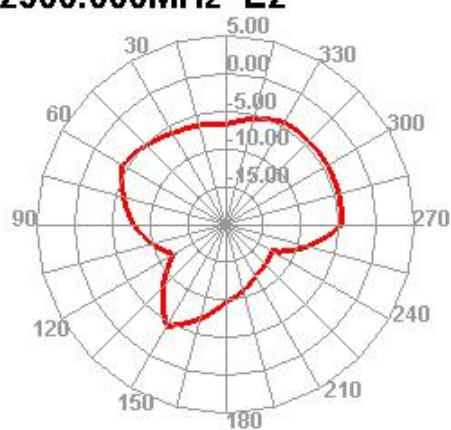
2500.000MHz H



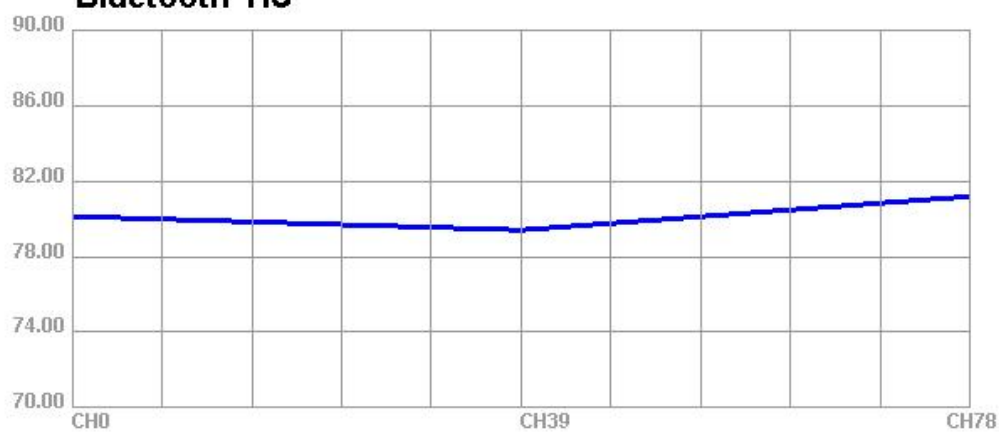
2500.000MHz E1



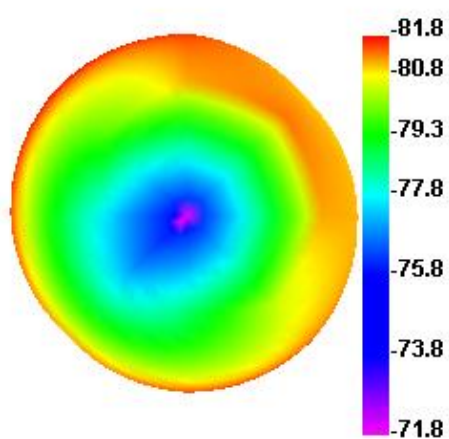
2500.000MHz E2



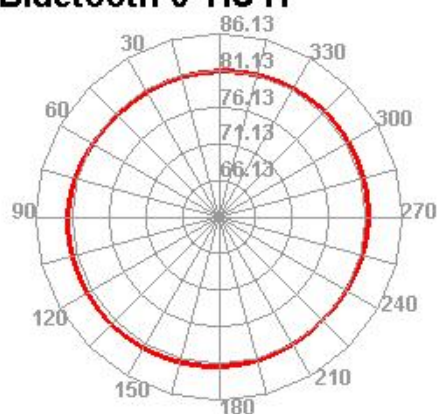
Bluetooth TIS



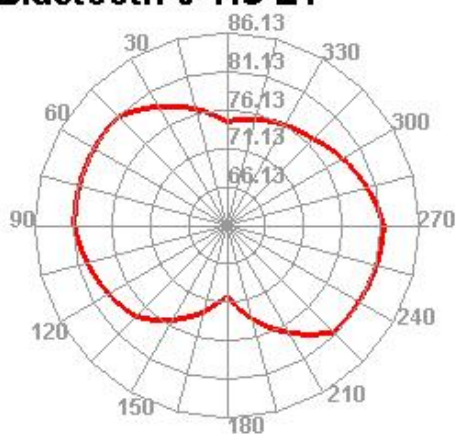
**Bluetooth 0 TIS**



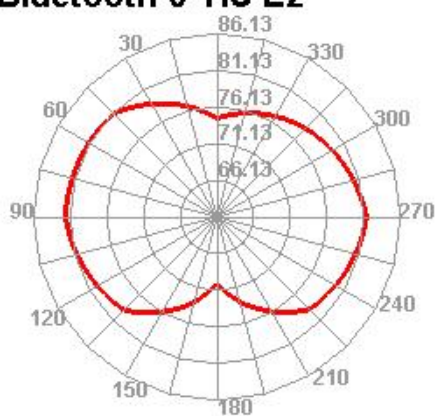
**Bluetooth 0 TIS H**



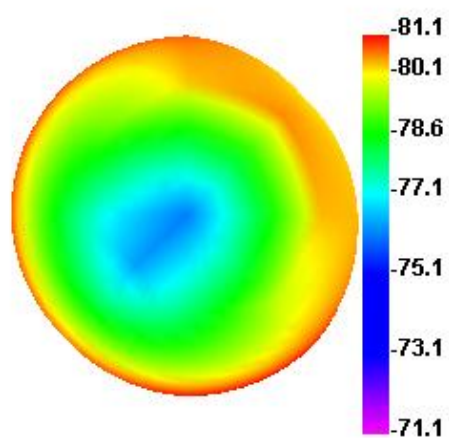
**Bluetooth 0 TIS E1**



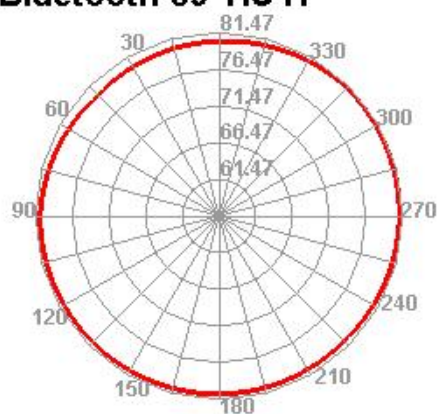
**Bluetooth 0 TIS E2**



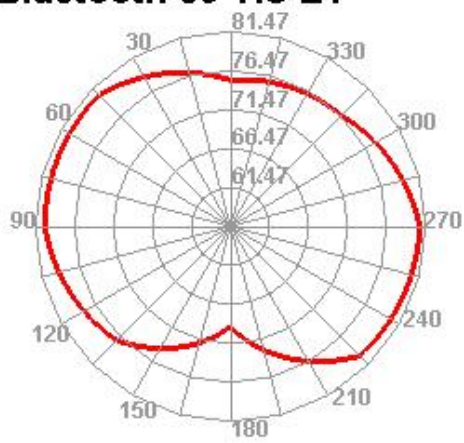
**Bluetooth 39 TIS**



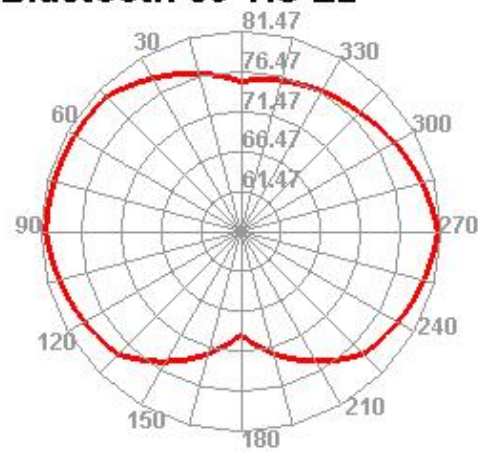
**Bluetooth 39 TIS H**



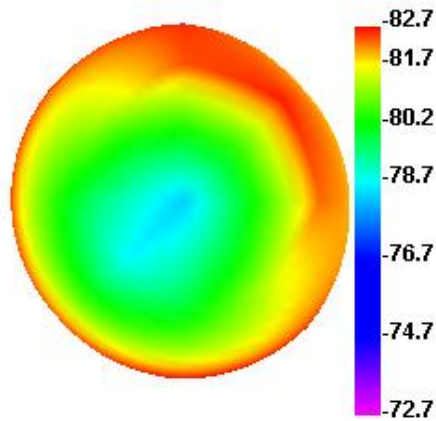
**Bluetooth 39 TIS E1**



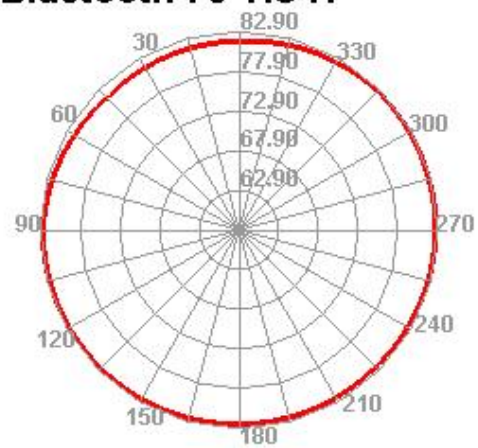
**Bluetooth 39 TIS E2**



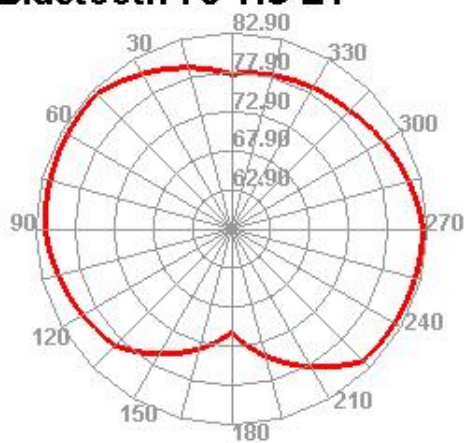
**Bluetooth 78 TIS**



**Bluetooth 78 TIS H**



**Bluetooth 78 TIS E1**



**Bluetooth 78 TIS E2**

