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## BB007Ring BT Antenna Performance Report

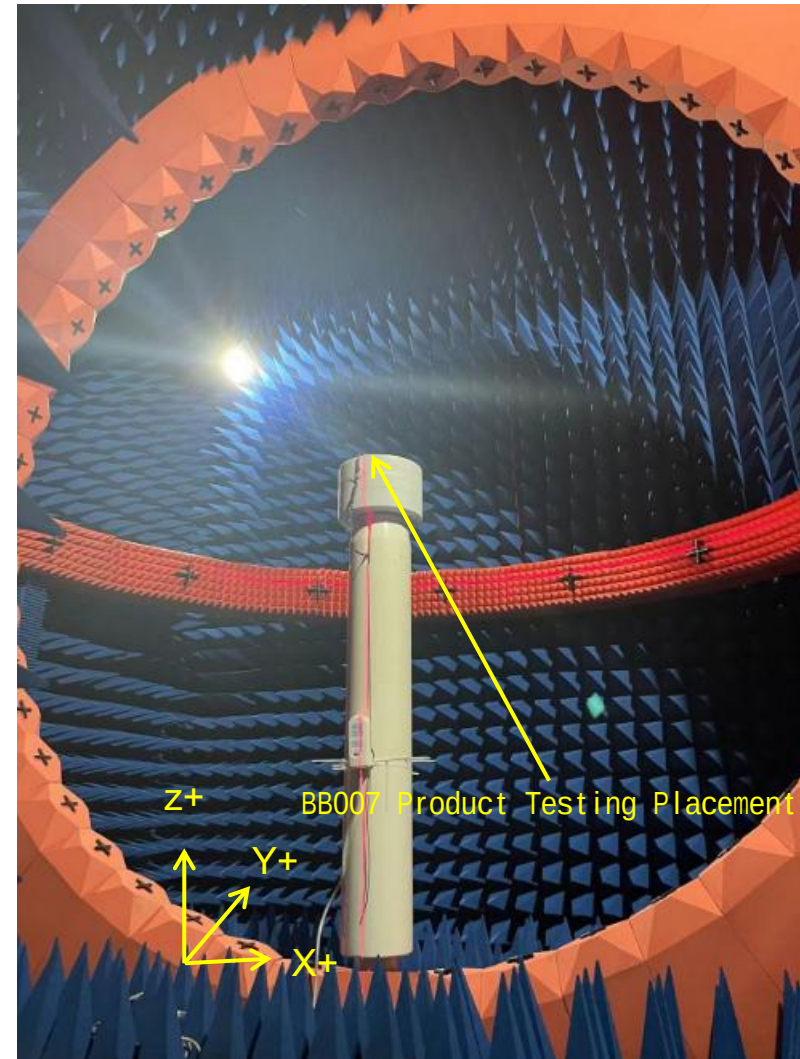
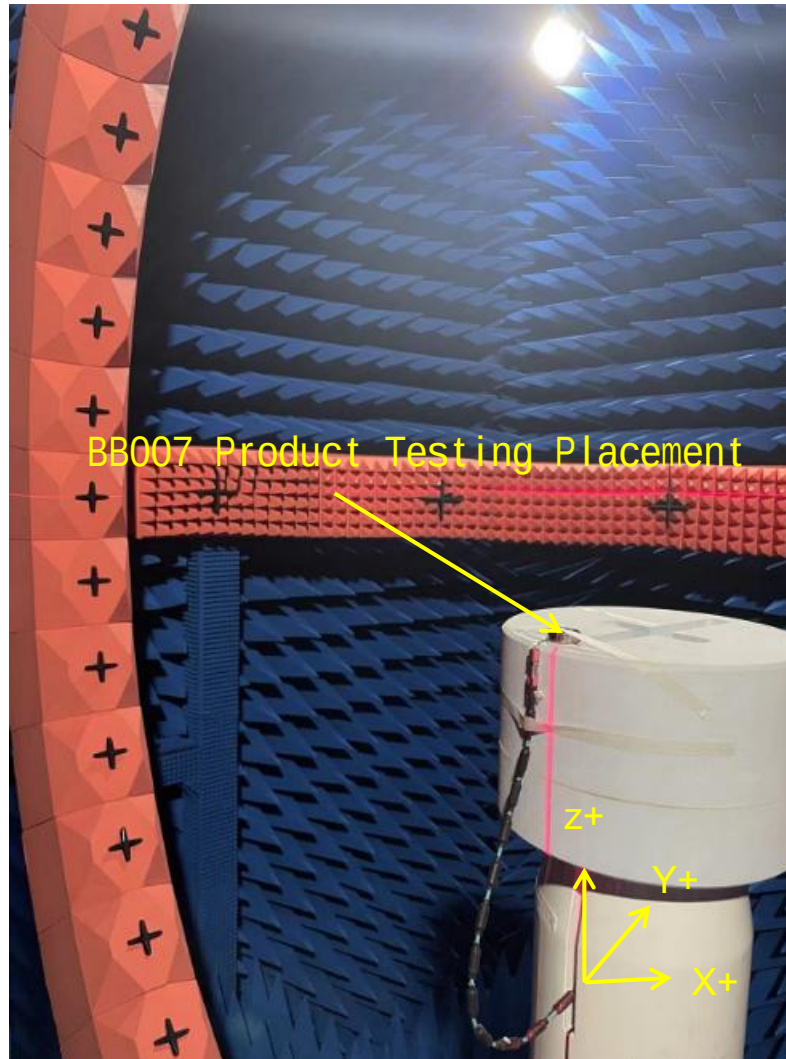
|                       |                                           |                  |
|-----------------------|-------------------------------------------|------------------|
| Project Name          | BB007Ring                                 |                  |
| Antenna Engineer      | Engineer Ye                               |                  |
| Contact               | <a href="tel:15813808853">15813808853</a> |                  |
| Report Version & Date | 2024/5/23                                 |                  |
| Testing Machine       | Keysight 5071C                            |                  |
| Device Status         | Sample Device Type                        | Prototype Sample |
|                       | Antenna Version                           | FPC Antenna      |
|                       | Other                                     |                  |



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## Testing Scene Graph



## Project Debug Pototype Showcase

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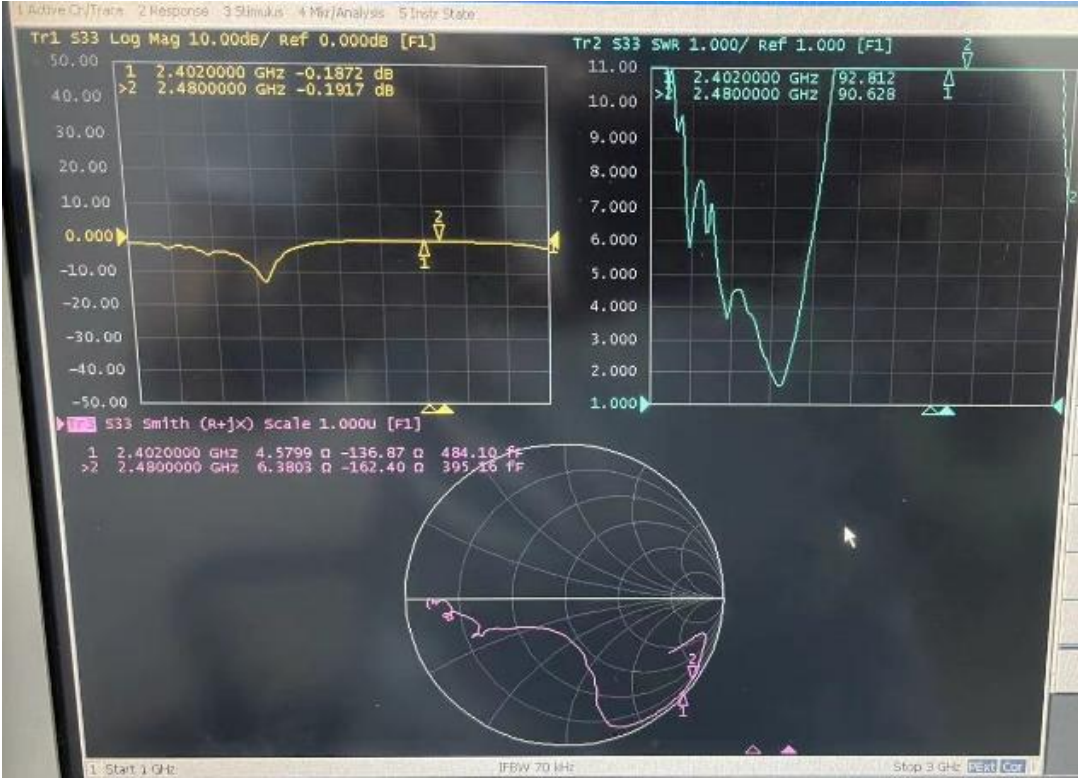


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# Passive S11 Test Data

## Ring Bare Testing



Conclusion: Ring Bare Testing, BT Antenna S11 rather bad.

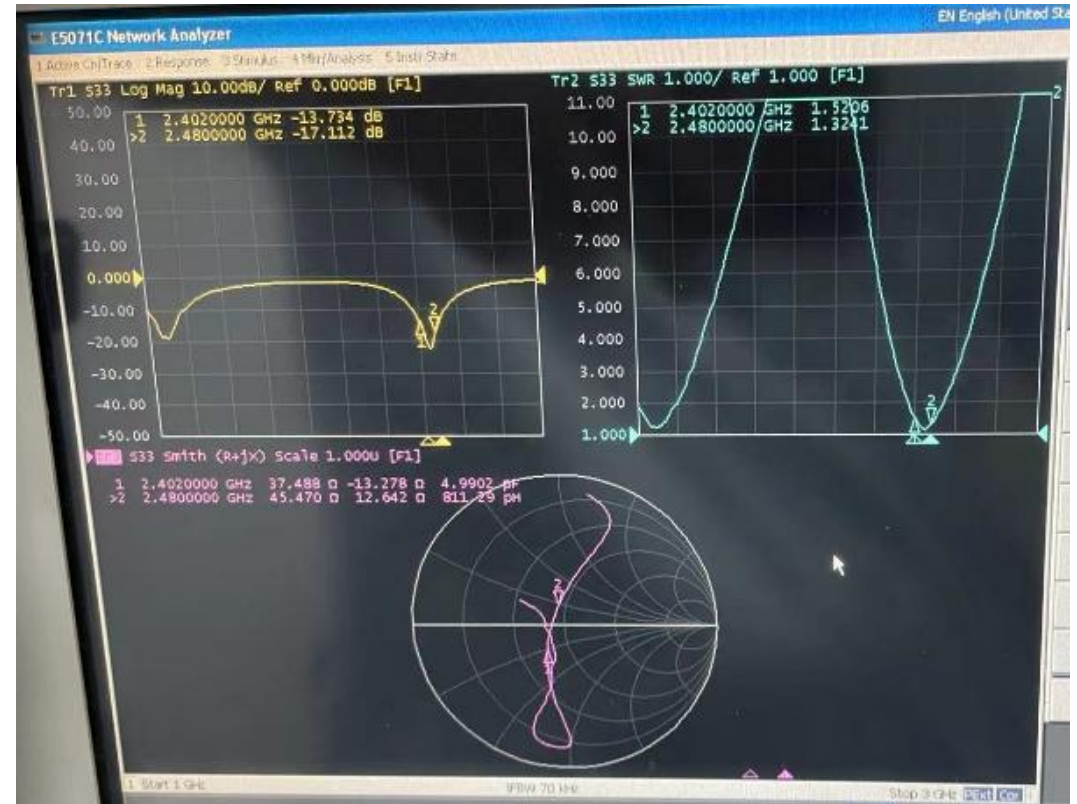
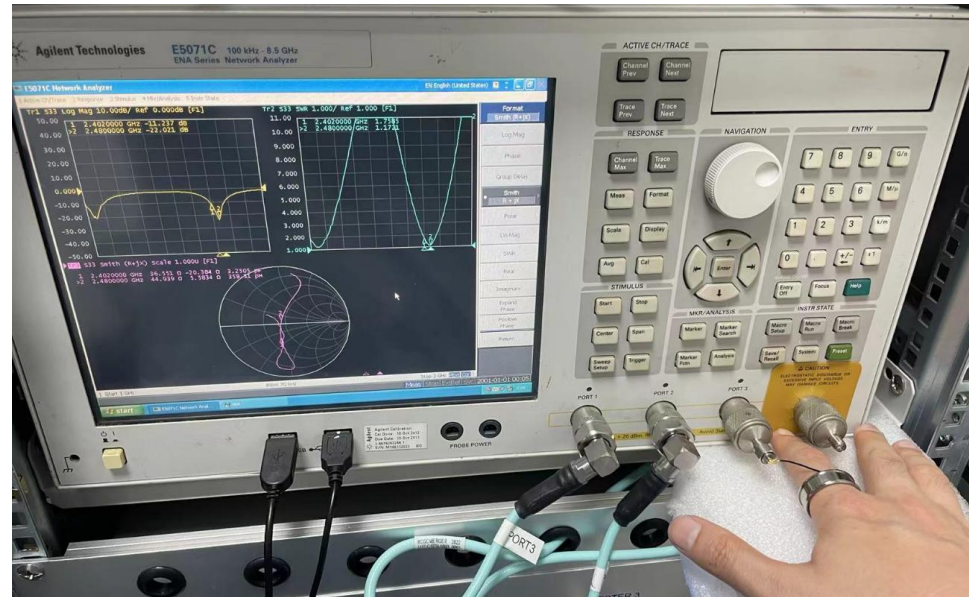


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## Passive S11 Test Data

### Ring Wearing On Finger Testing



Conclusion: Ring Wearing on Finger Testing, BT Antenna S11 rather good.



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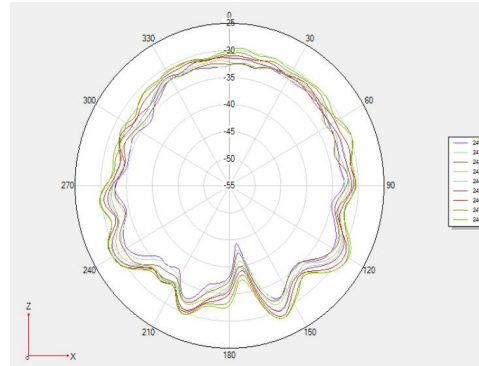


## Passive Test Data

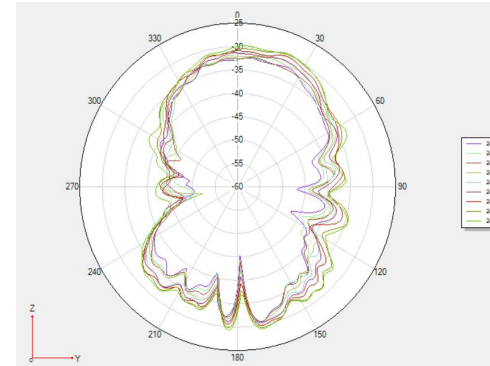
### Ring Bare Testing

| Frequenc<br>y/Mhz | Efficiency<br>/ % | MaxGain/<br>dBi |
|-------------------|-------------------|-----------------|
| 2400              | 0.03              | -5.27           |
| 2410              | 0.03              | -4.17           |
| 2420              | 0.03              | -3.53           |
| 2430              | 0.04              | -2.08           |
| 2440              | 0.04              | -3.13           |
| 2450              | 0.04              | -4.33           |
| 2460              | 0.05              | -5.54           |
| 2470              | 0.05              | -4.96           |
| 2480              | 0.06              | -3.95           |

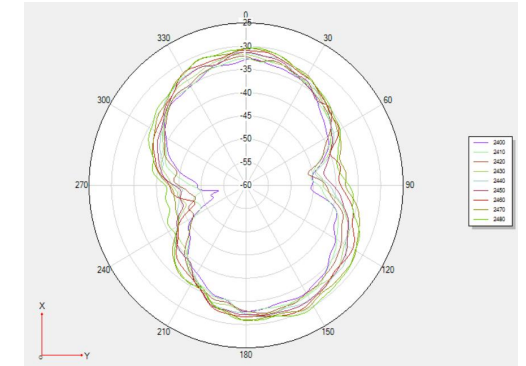
### 2D Radition pattern



Phi 0 2D

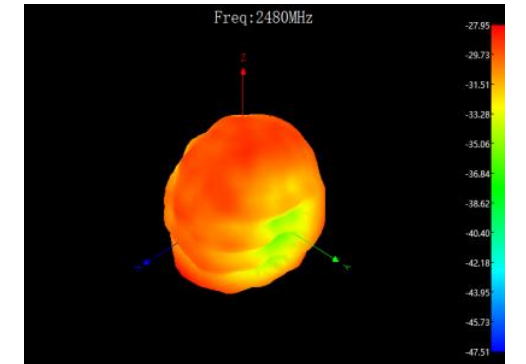
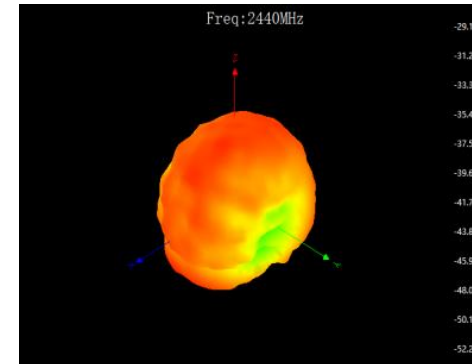
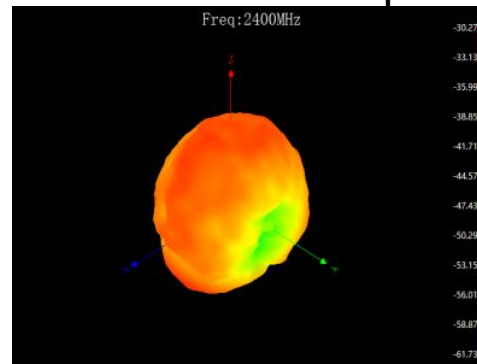


Phi 90 2D



Theta 90 2D

### 3D Radition pattern



**Conclusion:** Above Ring Bare Testing Antenna Efficiency rather not good.



1、BB007Ring Project, bare testing BT performance rather not good, but after wearing on finger BT Antenna working frequency matching rather good.

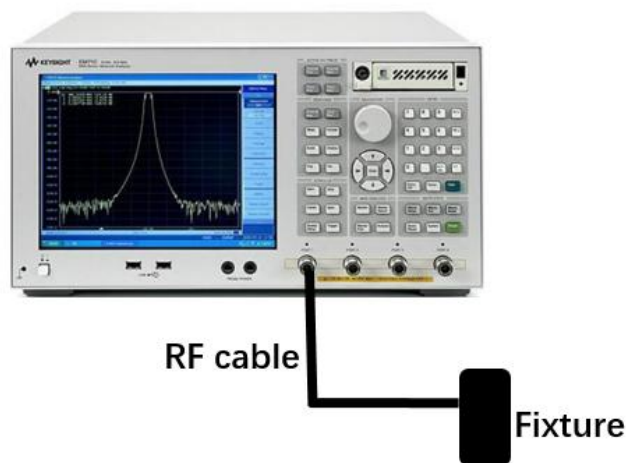


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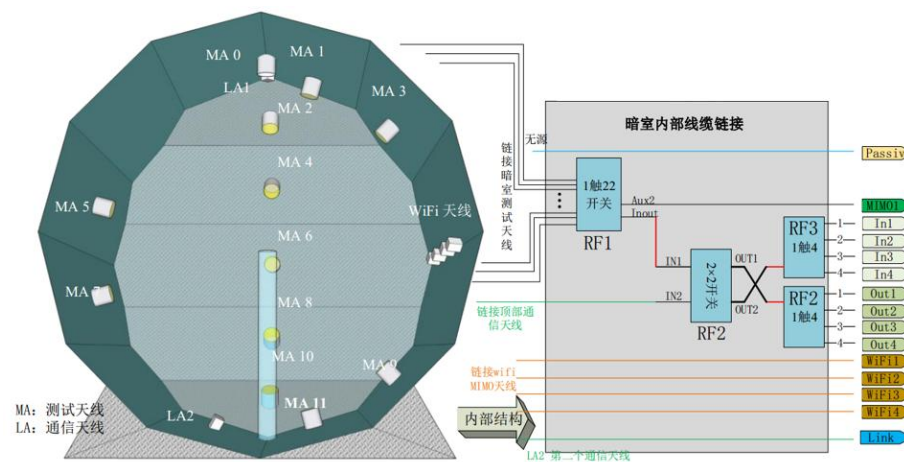
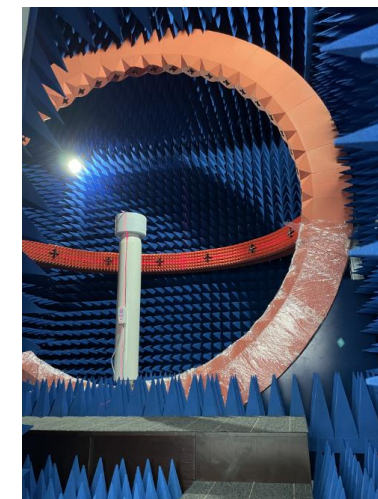


## S11 Testing&OTA Testing System

### S11 Testing



### OTA Testing System





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Thanks