



Shenzhen Yingfeng antenna technology
Co., LTD

MC003 Test Report

| | |
|------------------|---------------------------------|
| Cient | Deep asteridae |
| product | speaker |
| Engineer | Mr Xu |
| telephone | 15195476167 |
| mailbox | lyg@yingfengtianxian.com |
| date | 2023-10-08 |



Report catalog

⊕ Test equipment

prototype appearance

antenna appearance

Match parameter

displays the S-parameters of the antenna

free-field passive efficiency of the whole machine

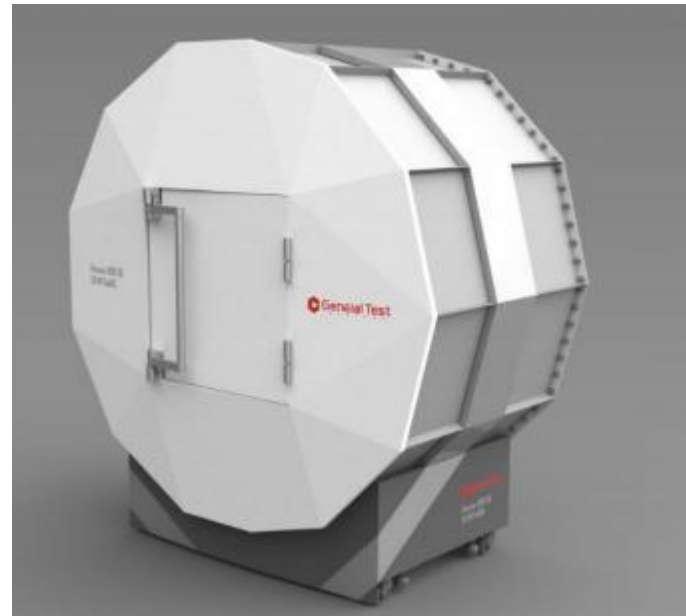
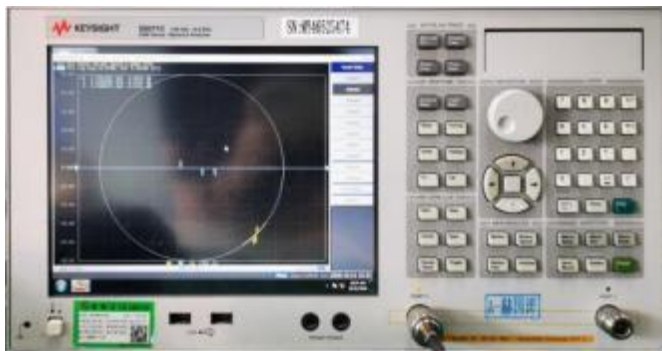
Machine free field passive field type



Test condition

1. S parameter measurement

- 2. Equipment: Network analyzer (Agilent E5062A), microwave darkroom, MT8852B
- 3. Items: Impedance, return loss, VSWR, efficiency, gain, radiant field type, sensitivity, power, frequency offset active data TRP TIS





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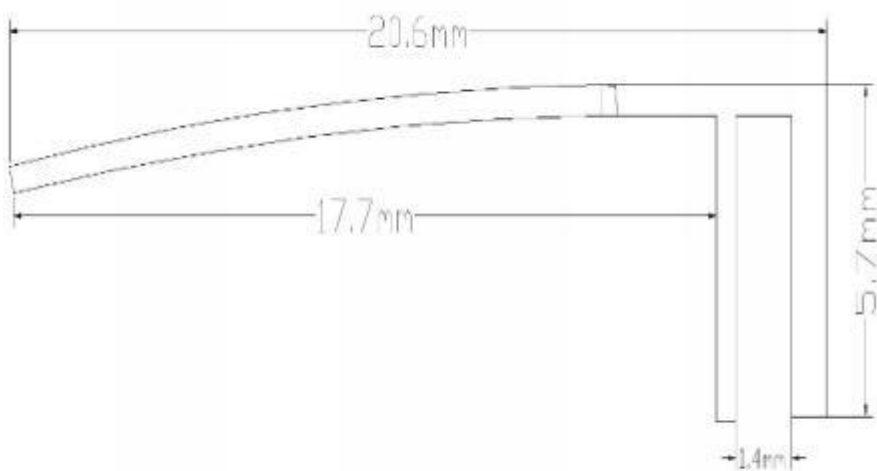
Prototype appearance





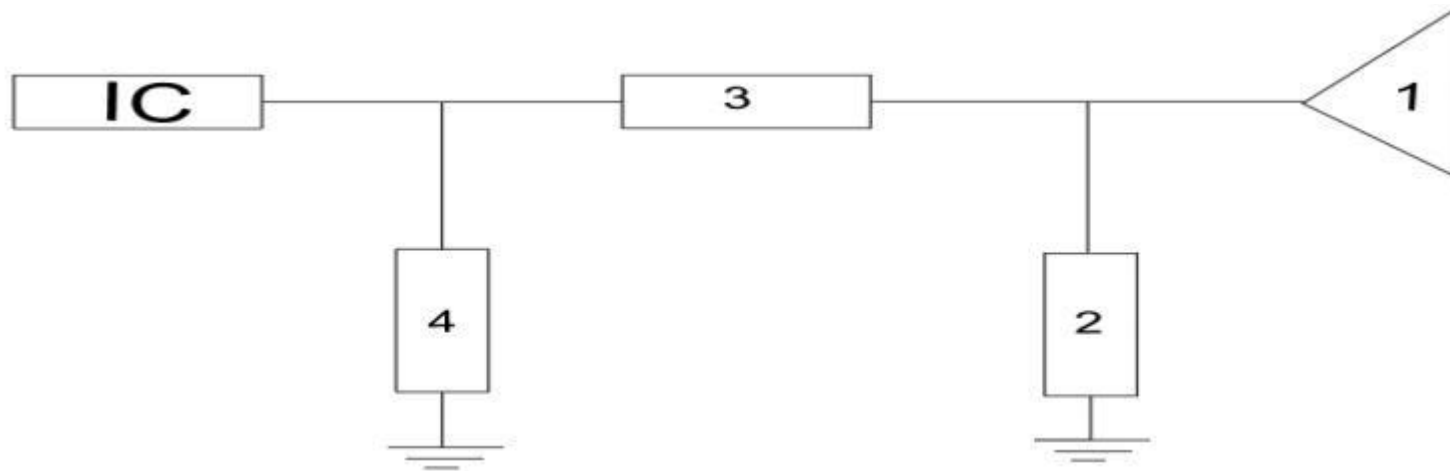
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样机外观





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| ID | | | | | | |
|----|-------------|------------|--------|--|-------------|--|
| 1 | onboard | | | | | |
| 2 | NC | | | | | |
| 3 | capacitance | 1.5PF/0201 | Murata | | $\pm 0.1PF$ | |
| 4 | capacitance | 1.8PF/0201 | Murata | | $\pm 0.1PF$ | |



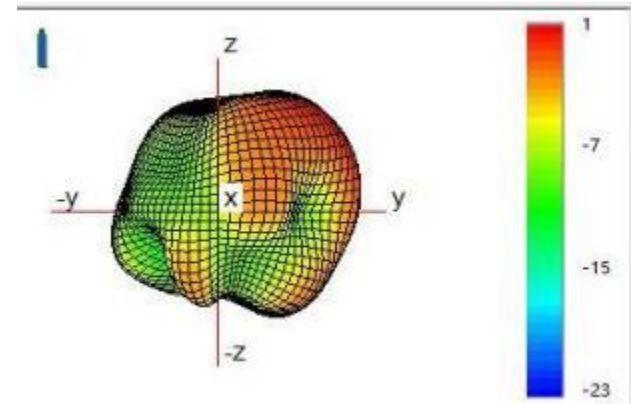
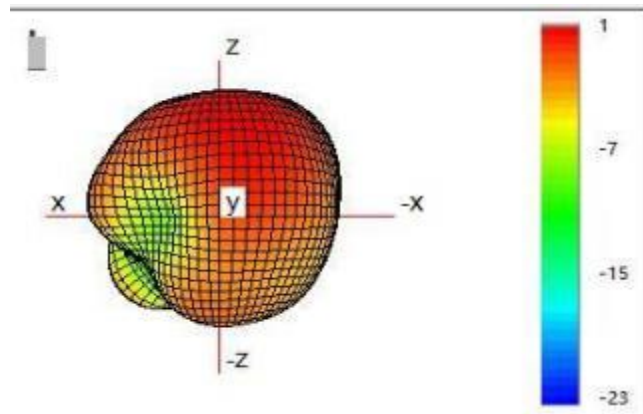
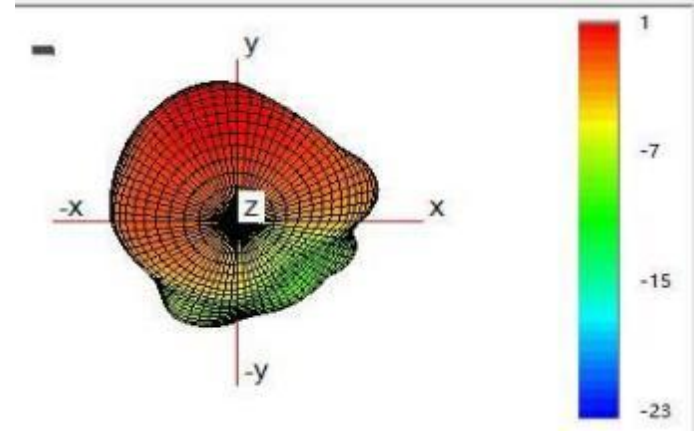
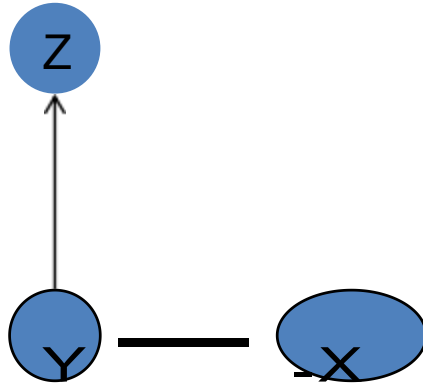
Network debugging antenna

Debugging waveform





Field pattern diagram





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Summary

| ITEM | ANT SPEC | | | | | |
|----------------------|---------------------------------|----------|----------|----------|----------|----------|
| Model Name | 2.4G ANT | | | | | |
| Center Frequency | Horizontal | | | Vertical | | |
| | 2400MHz | 2400MHz | 2500MHz | 2400MHz | 2400MHz | 2500MHz |
| | -1.26 dB | -0.76 dB | -0.58 dB | -5.25 dB | -2.46 dB | -1.86 dB |
| MAX. Gain | -0.58dB | | | | | |
| Polarization | Horizontal and Vertical | | | | | |
| Azimuth Beam Pattern | Omni-directional | | | | | |
| Impedance | 50 Ohm | | | | | |
| Antenna Length | 38.20mm | | | | | |
| Manufacture | ZHUHAI JIELI TECHNOLOGY CO.,LTD | | | | | |



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Thanksfor Your Attention