

## AH196 Antenna Test Report

|                     |              |
|---------------------|--------------|
| Customer            | 亚昱           |
| Project             | <b>AH196</b> |
| Antenna BAND        | BT           |
| Product Description | FPC          |
| Product No          |              |

# ***Product Overview & Dimension***



This report is to measure the performance of BT antenna for AH196. The antenna operating frequency at (2400-2500MHZ) , All test data are showed as below.

## ***Content***

1. Product Overview & Dimension
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  - 4.4 2D Pattern
  - 4.5 OTA Data
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5. Antenna Assembly & environmental processing

## 2. Test System

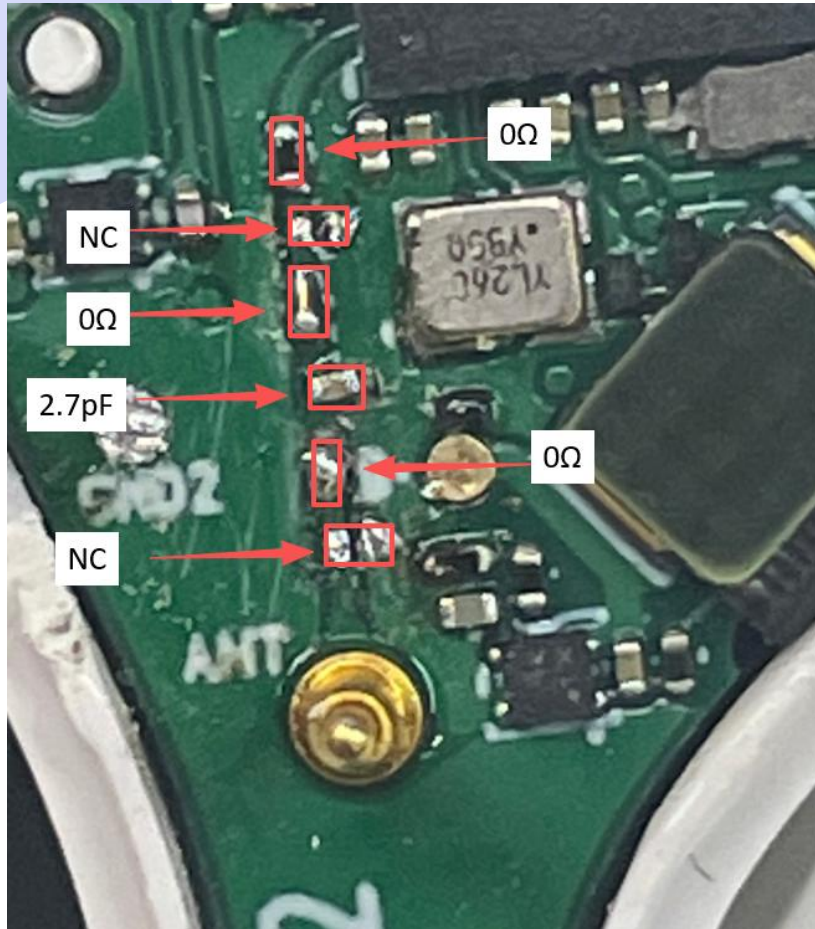
| Sequence Number   | Test Item         | equipment                          |
|-------------------|-------------------|------------------------------------|
| S parameter       | VSWR              | Agilent 5071C & HP 8753            |
| OTA Test          | TRP&TIS           | CMW500 & CMW270<br>ETS&<br>FT SG24 |
| Gain & Efficiency | Gain & Efficiency | ETS&FT SG24<br>Agilent 5071C       |



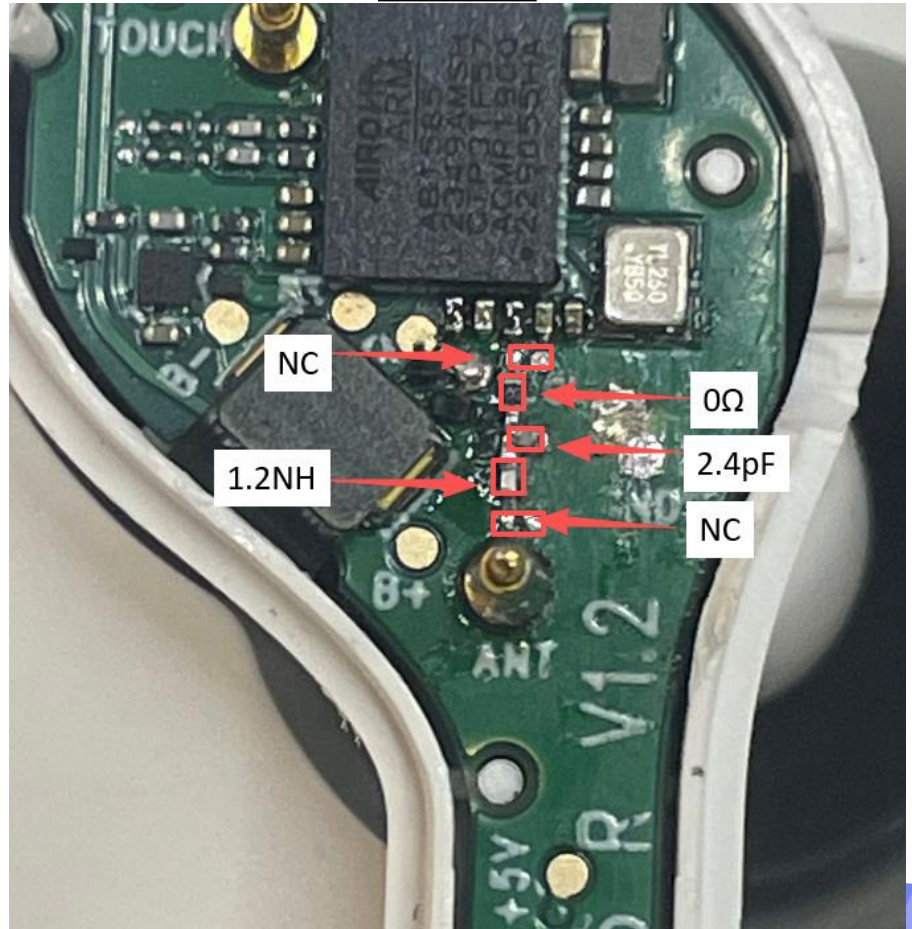
# 线路匹配

深圳市宁壹科技有限公司

L



R



BT-R<sub>ANT</sub>-FS

|                 |                   |         |          |          |
|-----------------|-------------------|---------|----------|----------|
| Test Equipment: | R&S CMW500        |         |          |          |
| Test Condition: | 3D chamber        |         |          |          |
| Band            | Wireless Protocol | Channel | TRP(dBm) | TIS(dBm) |
| BT              | CLASS 1           | 0       | 3.45     | -91.50   |
|                 |                   | 39      | 3.67     | -90.65   |
|                 |                   | 78      | 3.65     | -90.78   |

BT- L<sub>ANT</sub>-FS

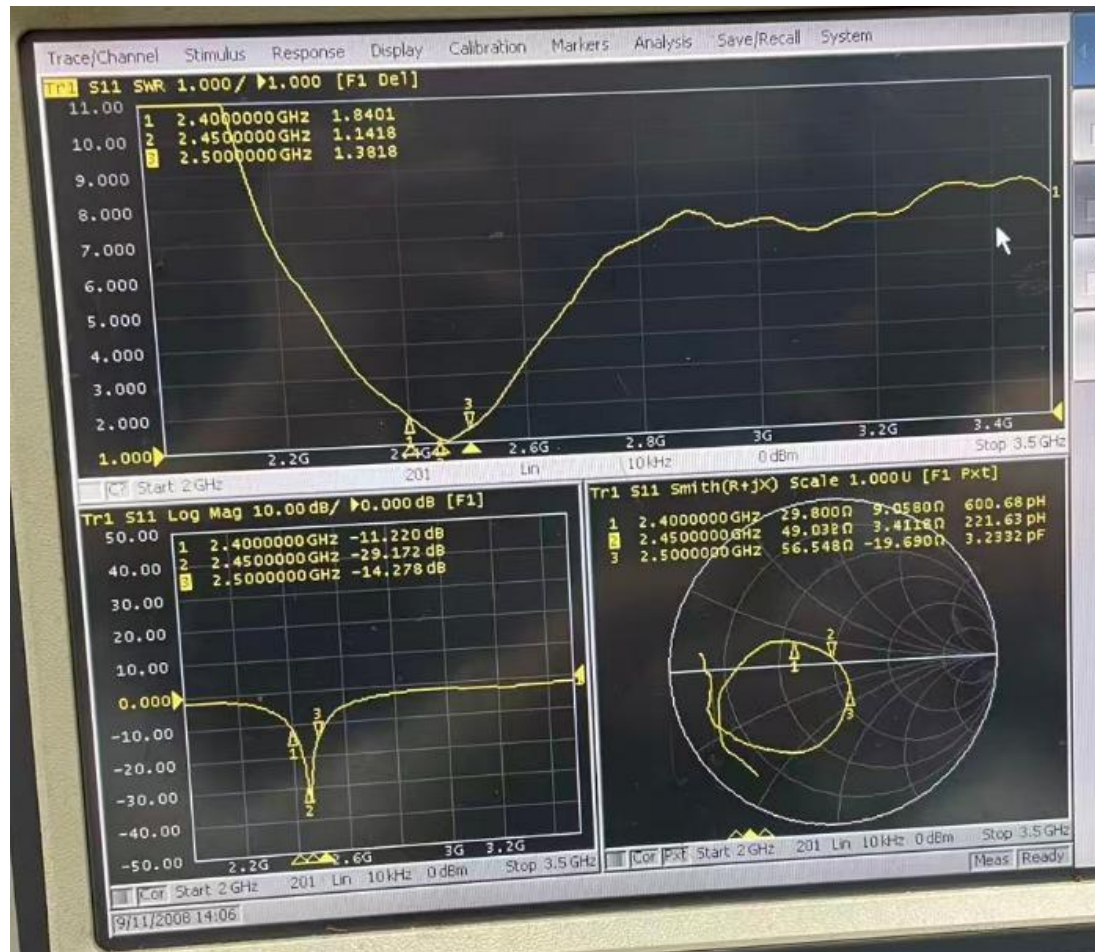
|                 |                   |         |          |          |
|-----------------|-------------------|---------|----------|----------|
| Test Equipment: | R&S CMW500        |         |          |          |
| Test Condition: | 3D chamber        |         |          |          |
| Band            | Wireless Protocol | Channel | TRP(dBm) | TIS(dBm) |
| BT              | CLASS 1           | 0       | 4.02     | -92.50   |
|                 |                   | 39      | 4.22     | -92.35   |
|                 |                   | 78      | 4.11     | -92.58   |

BT- R<sub>ANT</sub>-BH

|                 |                   |         |          |          |
|-----------------|-------------------|---------|----------|----------|
| Test Equipment: | R&S CMW500        |         |          |          |
| Test Condition: | 3D chamber        |         |          |          |
| Band            | Wireless Protocol | Channel | TRP(dBm) | TIS(dBm) |
| BT              | CLASS 1           | 0       | 1.55     | -89.52   |
|                 |                   | 39      | 1.28     | -88.24   |
|                 |                   | 78      | 1.08     | -87.92   |

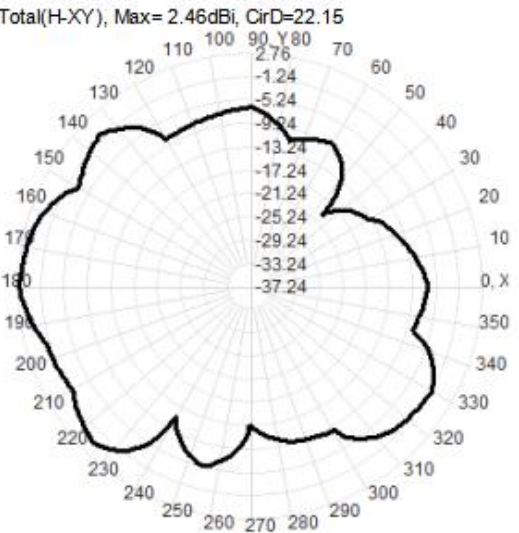
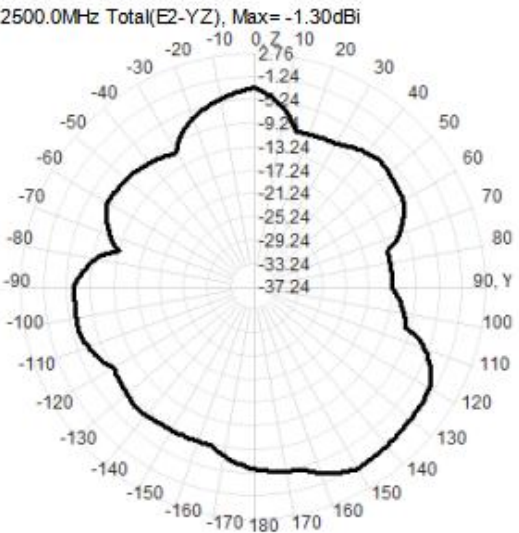
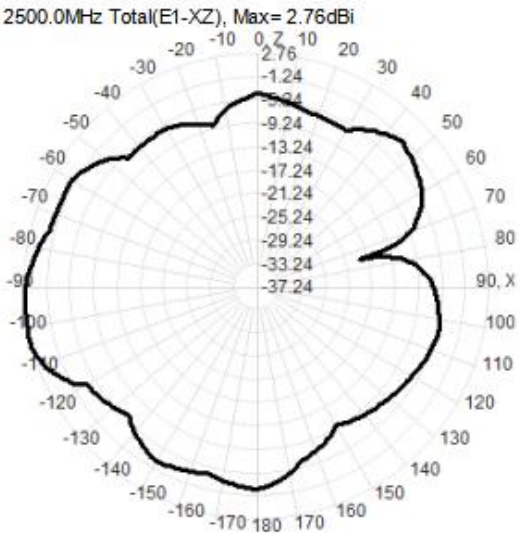
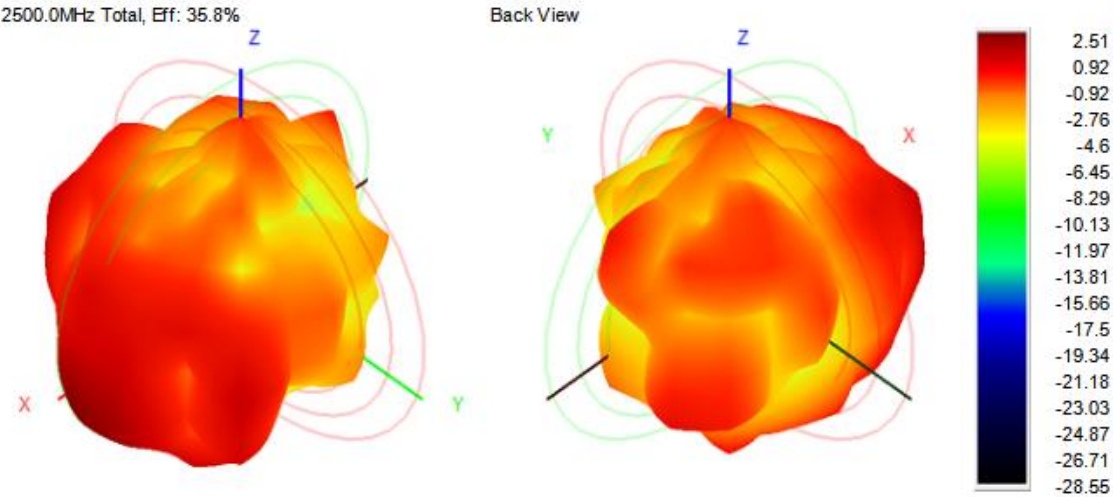
BT- L<sub>ANT</sub>-BH

|                 |                   |         |          |          |
|-----------------|-------------------|---------|----------|----------|
| Test Equipment: | R&S CMW500        |         |          |          |
| Test Condition: | 3D chamber        |         |          |          |
| Band            | Wireless Protocol | Channel | TRP(dBm) | TIS(dBm) |
| BT              | CLASS 1           | 0       | 2.09     | -91.03   |
|                 |                   | 39      | 2.25     | -89.52   |
|                 |                   | 78      | 2.55     | 89.65    |



VSWR

|                 |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | 1.13   | 1.56   | 1.35   | 1.32   | 1.12   | 1.51   | 1.83   | 2.05   | 2.23   | 2.40   | 2.51   |
| Efficiency (%)  | 31.04  | 32.91  | 31.49  | 31.80  | 32.57  | 33.26  | 34.98  | 35.08  | 37.49  | 34.68  | 35.82  |



# ***Thanks for your comment!***

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