

# Test Report

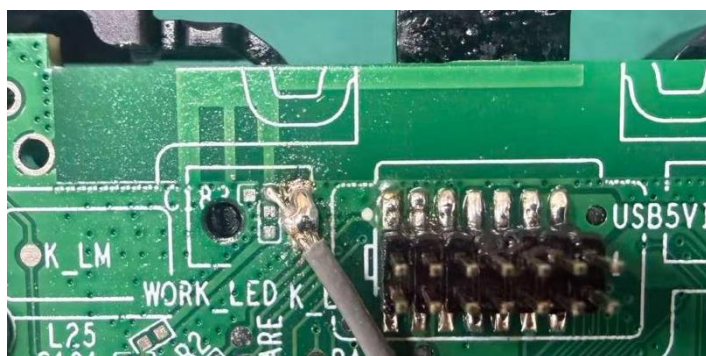
Customer:

Project Model:

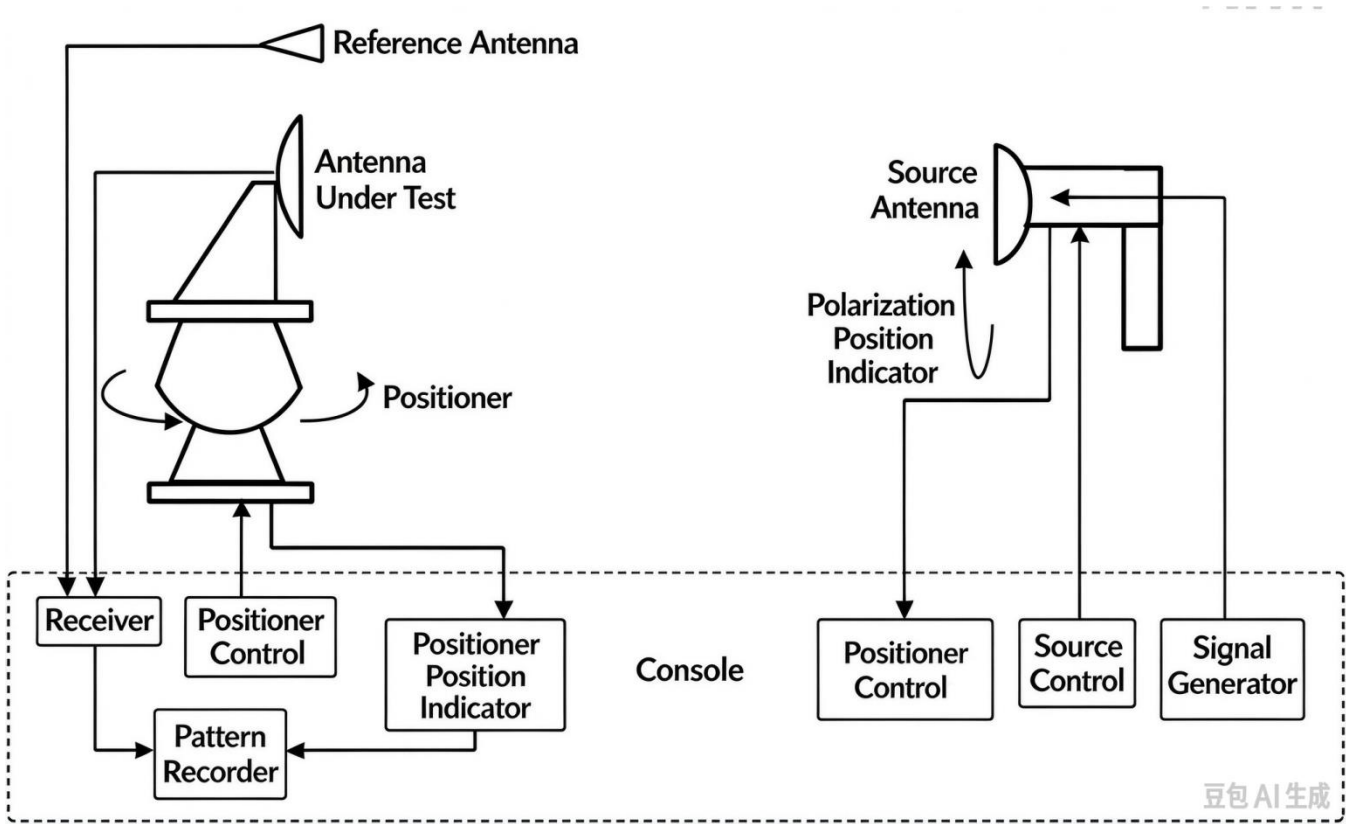
Frequency Band:2400-2500MHz

Version No.:V1.0

## Antenna Installation Diagram



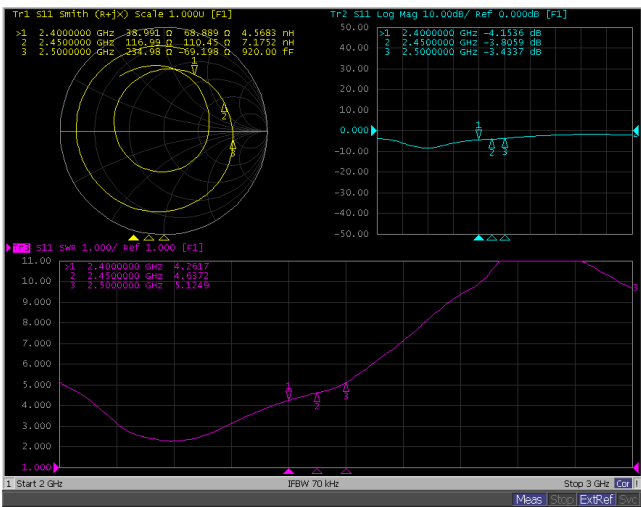
一、Microwave Anechoic Chamber Test Schematic Diagram



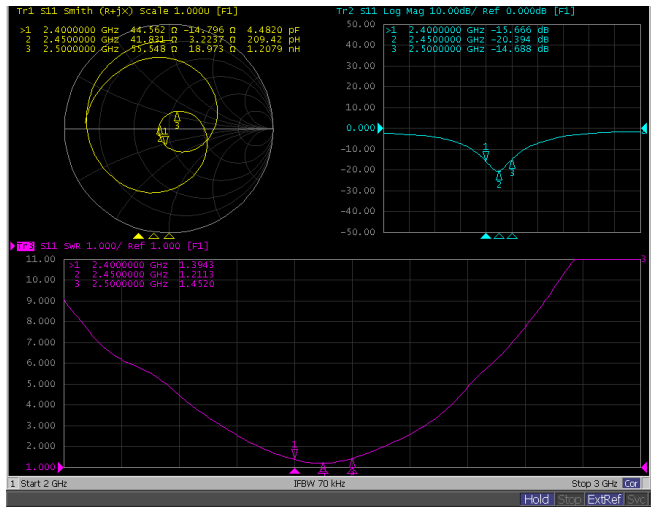
二、Passive Test Data

S-Parameter Plot

Original Antenna



Fabricated Antenna



### S-Parameter Data

| Freq/MHz |                    | 2400 | 2450 | 2500 |
|----------|--------------------|------|------|------|
| VSWR     | Original Antenna   | 4.26 | 4.53 | 5.12 |
|          | Fabricated Antenna | 1.30 | 1.21 | 1.45 |

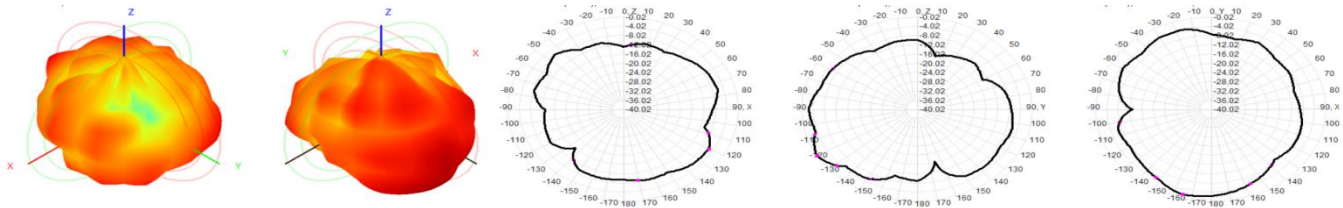
### Gain&Efficiency

| Frequency (MHz) | Original Antenna |                | Fabricated Antenna |                |
|-----------------|------------------|----------------|--------------------|----------------|
|                 | Gain (dBi)       | Efficiency (%) | Gain (dBi)         | Efficiency (%) |
| 2400            | -0.02            | <b>19.61</b>   | 2.91               | <b>45.96</b>   |
| 2410            | -0.81            | <b>19.56</b>   | 3.48               | <b>46.36</b>   |
| 2420            | 0.04             | <b>19.97</b>   | 3.49               | <b>45.89</b>   |
| 2430            | -0.25            | <b>20.91</b>   | 3.45               | <b>47.59</b>   |
| 2440            | 0.87             | <b>20.90</b>   | 3.37               | <b>45.61</b>   |
| 2450            | 0.48             | <b>21.10</b>   | 3.22               | <b>44.51</b>   |
| 2460            | 0.39             | <b>20.82</b>   | 2.57               | <b>44.46</b>   |
| 2470            | 0.48             | <b>20.97</b>   | 3.45               | <b>44.72</b>   |
| 2480            | 0.64             | <b>20.16</b>   | 3.48               | <b>46.41</b>   |
| 2490            | 0.73             | <b>21.69</b>   | 3.48               | <b>45.72</b>   |
| 2500            | 0.40             | <b>19.98</b>   | 3.74               | <b>48.01</b>   |

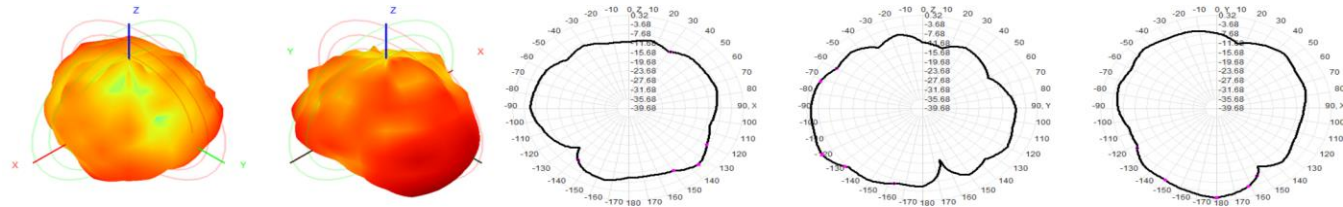
Antenna Radiation Pattern

Original Antenna

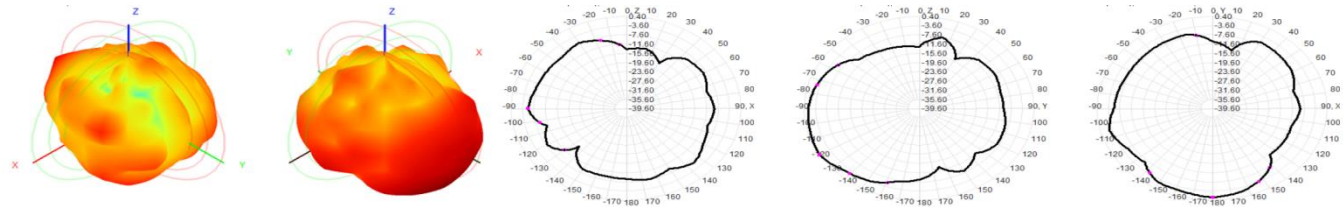
2400MHz



2450MHz

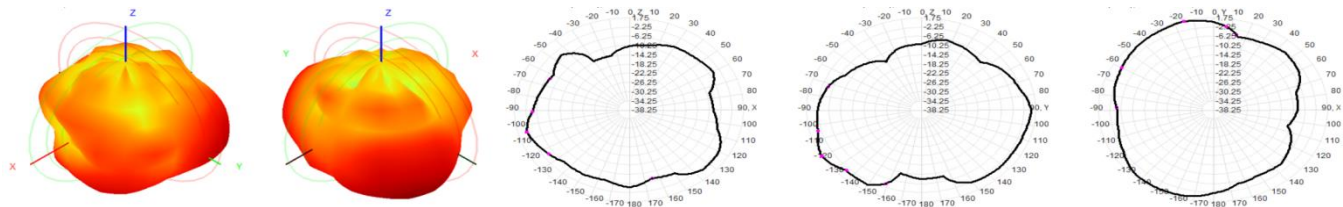


2500MHz

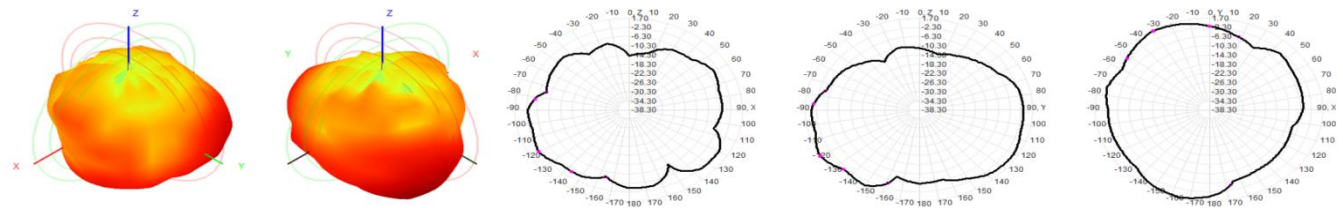


Fabricated Antenna

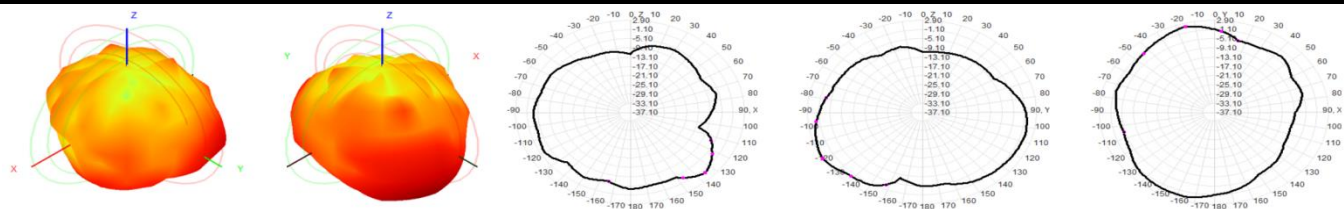
2400MHz



2450MHz



2500MHz



**Shentansmart Technology Co., Ltd.**

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