

Antenna test report

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|----------------------------|--|
| Test Laboratory | Dongguan Yijia Electronic Co., LTD |
| Address | No. 59 Muyu Road, Shatou Community, Chang 'an Town, Dongguan City, Guangdong Province |
| Contact: | Mr. Gan 13823198410 |
| Manufacture Name | Shenzhen Qianyan Technology LTD |
| Manufacture Address | No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen |
| Model | H5105 |
| Type of Antenna: | PCB Antenna |

1. Test procedures

| Name | Parameter | Method | Standard No. |
|------------------------------|----------------------|--|------------------------|
| Mobile communication antenna | VSWR | Generic specification for antennas used in the mobile communications | GB/T 9410-2008 |
| | Antenna Gain | | |
| | Radiation pattern | | |
| Antenna | Radiation efficiency | IEEE Standard Test Procedures for Antennas | ANSI/IEEE Std 149-1979 |

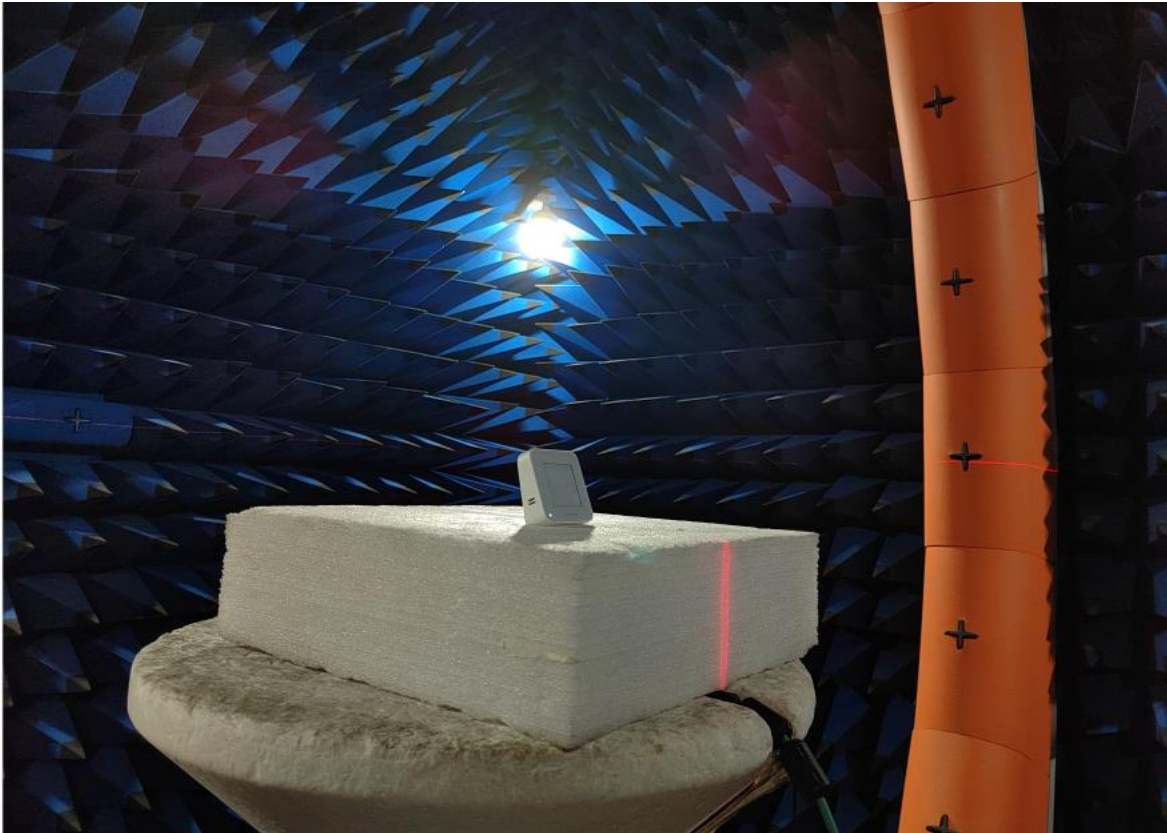
2. Test Equipment

| Equipment | Model No. | Serial No. | Manufacture | Calibration Date | Next calibration Date |
|---|--|-------------------|--------------------|-------------------------|------------------------------|
| 24 probe Microwave chamber | MPS2450 Multi- probe OTA me asurement systems 5*5*5 | YJ-PB-F01 | XH- IOE | 2022.09.01 | 2023.09.01 |
| Network Analyzer | ZVB8 | YJ-RD- 15 | ROHDE& SCH WARS | 2022.08.25 | 2023.08.25 |
| Wideband radio Communication tester | CMW500 | YJ-RD- 16 | ROHDE& SCH WARS | 2022.08.25 | 2023.08.25 |

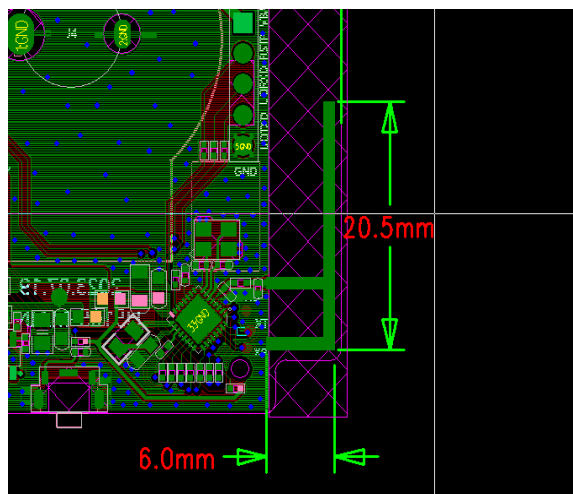
3. Measurement Uncertainty

| Item | Uncertainty |
|--------------|--------------------|
| Antenna Gain | $\pm 2\text{dB}$ |

4. DUT Setup Photo

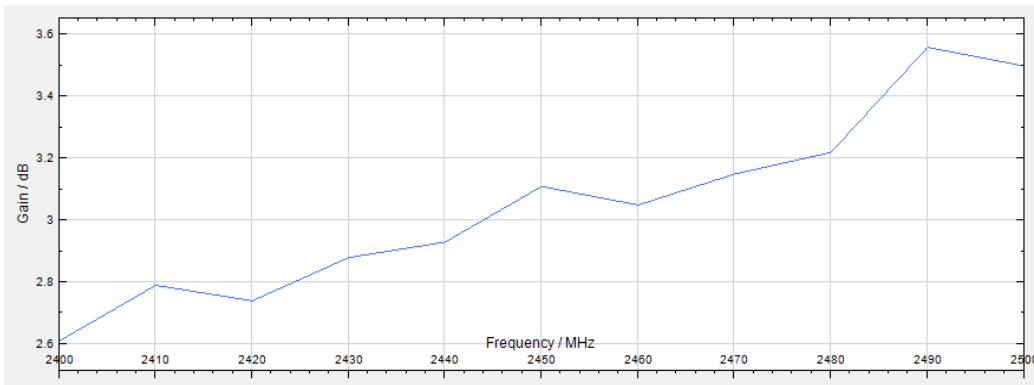


5. Bluetooth Antenna Physical Size



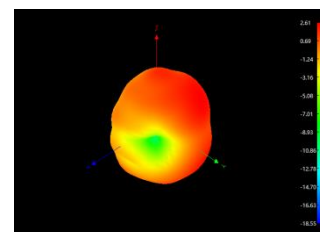
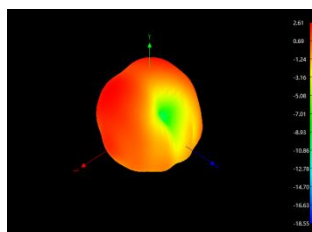
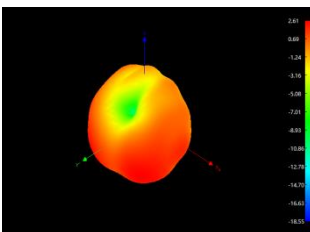
6. Bluetooth Antenna Gain

| Frequency / MHz | Gain/ dBi |
|-----------------|-----------|
| 2400 | 2.61 |
| 2410 | 2.79 |
| 2420 | 2.74 |
| 2430 | 2.88 |
| 2440 | 2.93 |
| 2450 | 3.11 |
| 2460 | 3.05 |
| 2470 | 3.15 |
| 2480 | 3.22 |
| 2490 | 3.56 |
| 2500 | 3.5 |

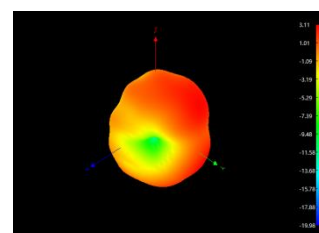
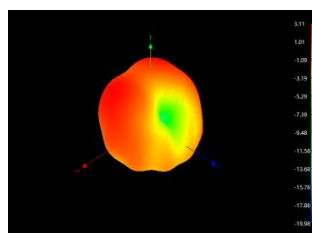
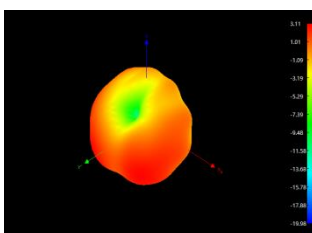


6. Antenna Pattern Picture

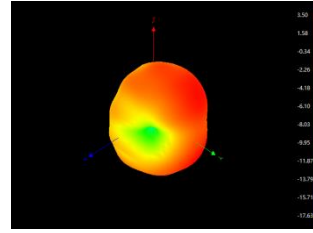
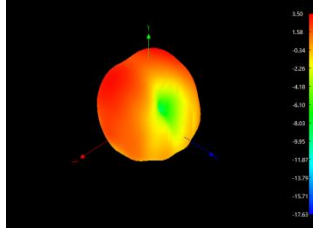
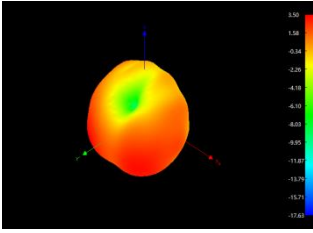
2400MHz



2450MHz



2500MHz



Tester by: Wu xianming

Wu Xianming