

# Antenna Specification

|                     |                |
|---------------------|----------------|
| Product Name        | CM723          |
| ITEM                | SPEC           |
| Model Name          | BT2.4G         |
| Polarization        | Vertical       |
| Gain                | 1.78dBi        |
| Impedance           | 50 Ω           |
| Weight              | /              |
| Product description | PCB            |
| Antenna Length      | 25.5*9.5*3.0mm |
| Manufacturer        |                |
| Address             |                |

(Product picture)

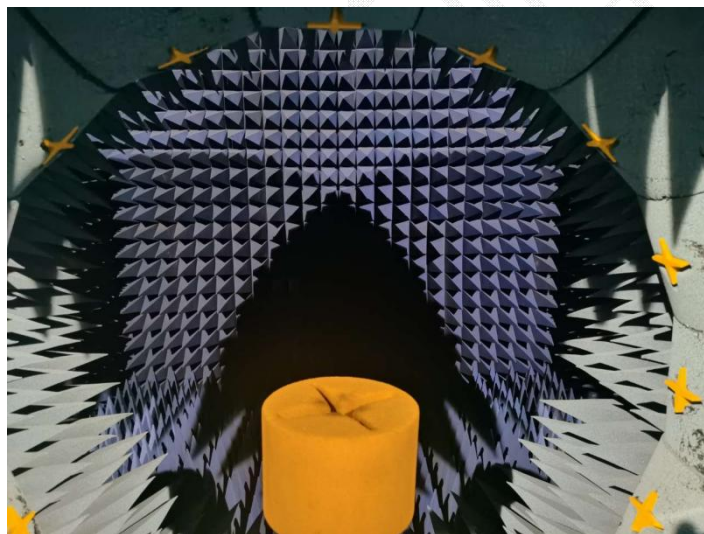
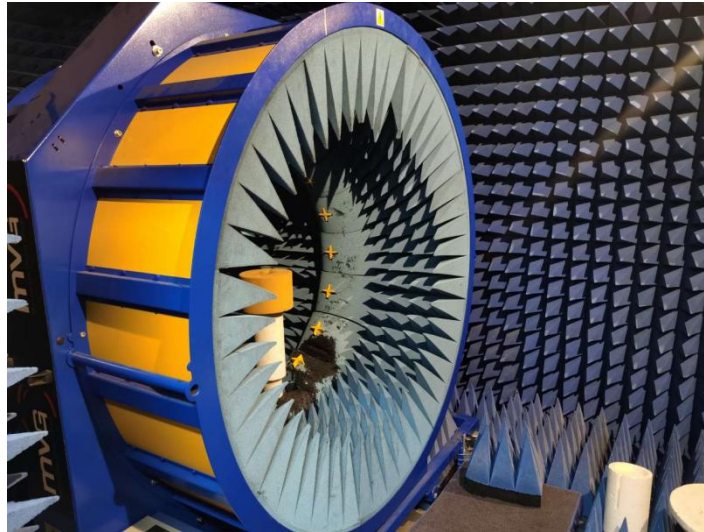


matching parameter

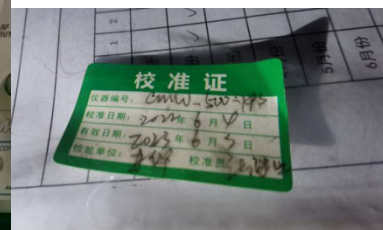
|    |    |     |    |
|----|----|-----|----|
| 位号 | ①  | ②   | ③  |
| 数值 | NC | 0 Ω | NC |

## Test Environment

### Satimo darkroom



### CMW-500Anritu

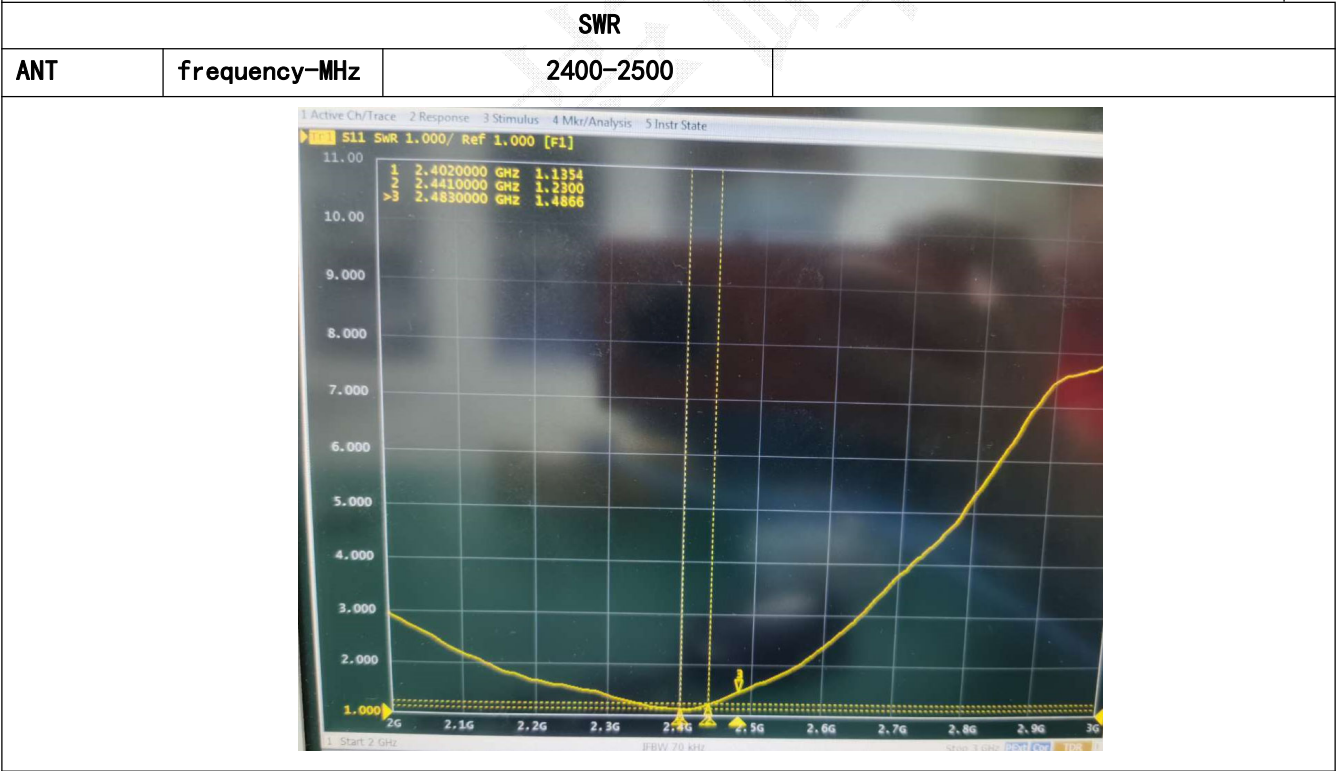
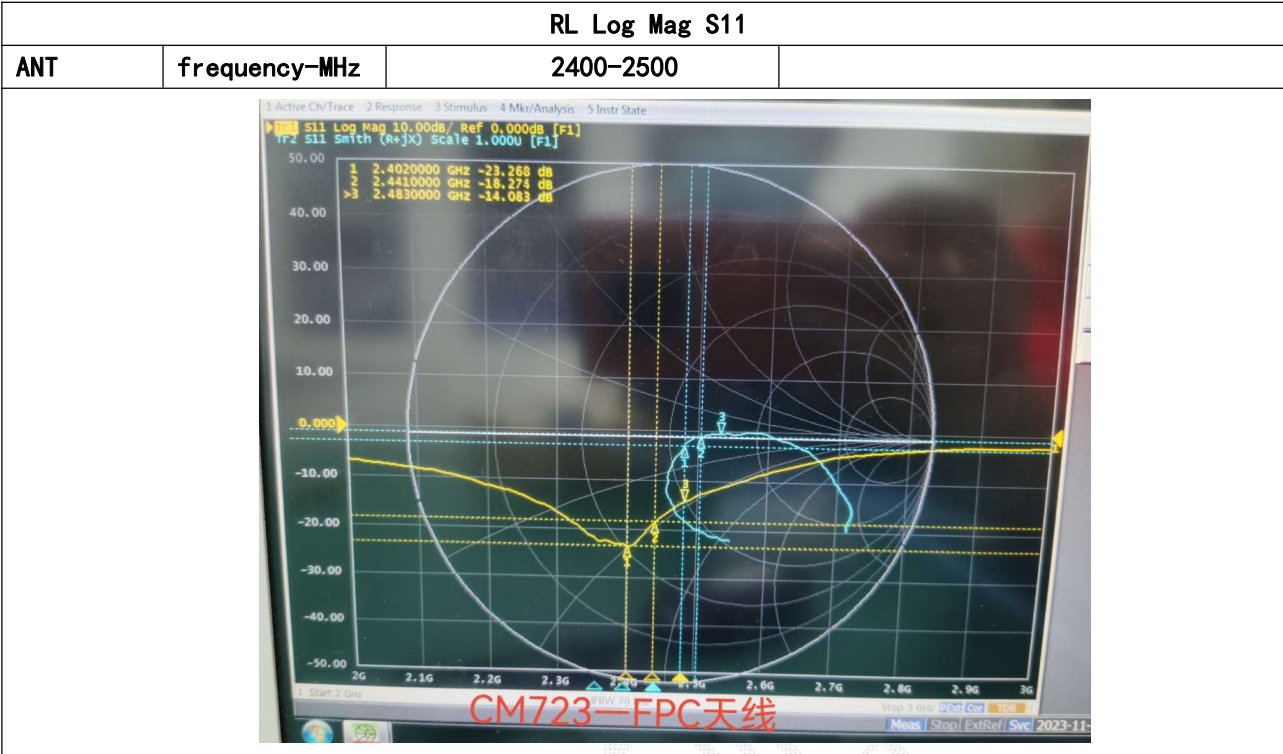


Agilent VNA Master



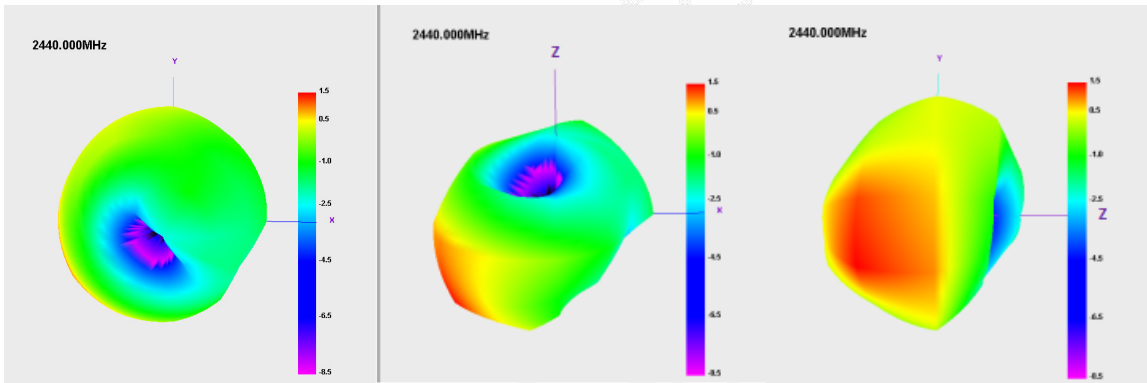
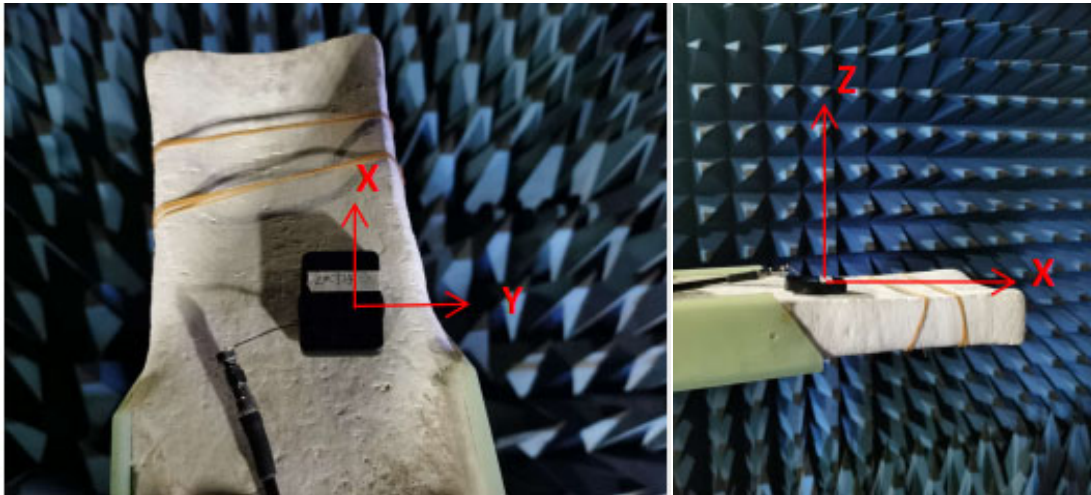
Electrical performance test results

| ANT    |                 |       |                   |              |        |        |
|--------|-----------------|-------|-------------------|--------------|--------|--------|
| Number | Test Item       | units | Performance index | Check Result |        | decide |
| 1      | frequency range | MHz   | 2402-2483.5       | 2402-2483.5  |        | OK     |
| 2      | GAIN            | dBi   | $\geq -3$         | 2400         | 1.57   |        |
|        |                 |       |                   | 2440         | 1.51   |        |
|        |                 |       |                   | 2480         | 1.78   |        |
| 4      | RL              | dB    | $\leq -10$        | 2402         | -23.26 |        |
|        |                 |       |                   | 2441         | -18.27 |        |
|        |                 |       |                   | 2480         | -14.08 |        |
| 4      | SWR             | dB    | $< 3$             | 2402         | 1.13   |        |
|        |                 |       |                   | 2441         | 1.23   |        |
|        |                 |       |                   | 2480         | 1.48   |        |

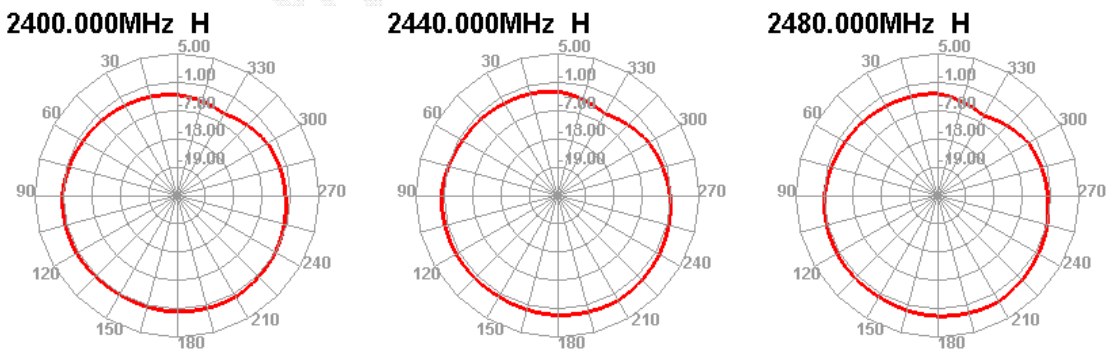


Radiation parameter test

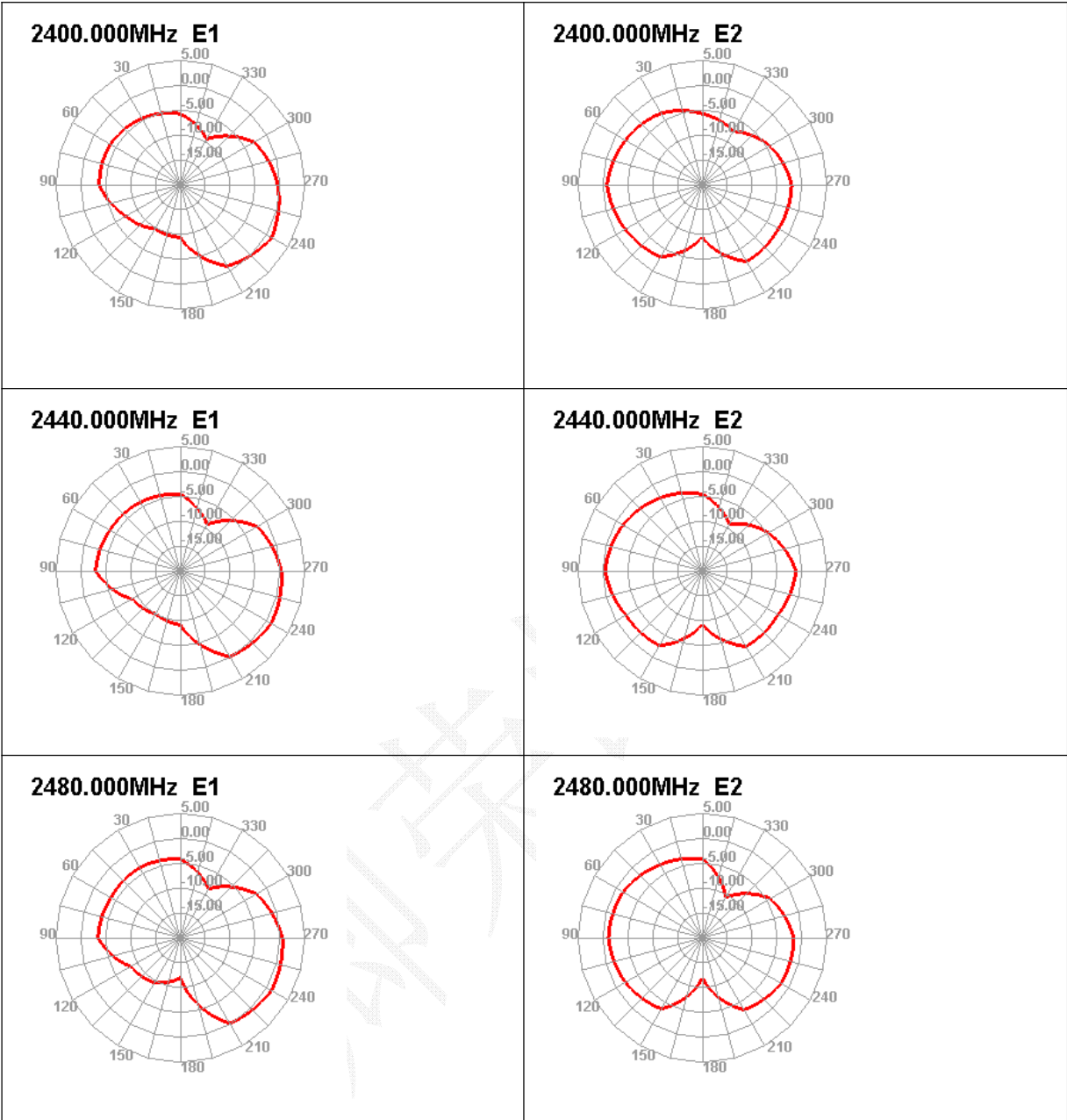
radiation pattern (2.4G) radiation pattern



horizontal plane



vertical plane



| Antenna passive efficiency |                  |               |
|----------------------------|------------------|---------------|
| Frequency                  | E Total. dB(dBi) | Efficiency(%) |
| 2400MHz                    | 1. 57            | 54            |
| 2410MHz                    | 1. 28            | 49. 75        |
| 2420MHz                    | 1. 25            | 50. 84        |
| 2430MHz                    | 1. 23            | 52. 35        |
| 2440MHz                    | 1. 51            | 57. 66        |
| 2450MHz                    | 1. 68            | 59. 04        |
| 2460MHz                    | 1. 75            | 57. 69        |
| 2470MHz                    | 1. 59            | 54. 42        |
| 2480MHz                    | 1. 78            | 57            |
| 2490MHz                    | 1. 98            | 60. 97        |
| 2500MHz                    | 1. 98            | 63. 45        |