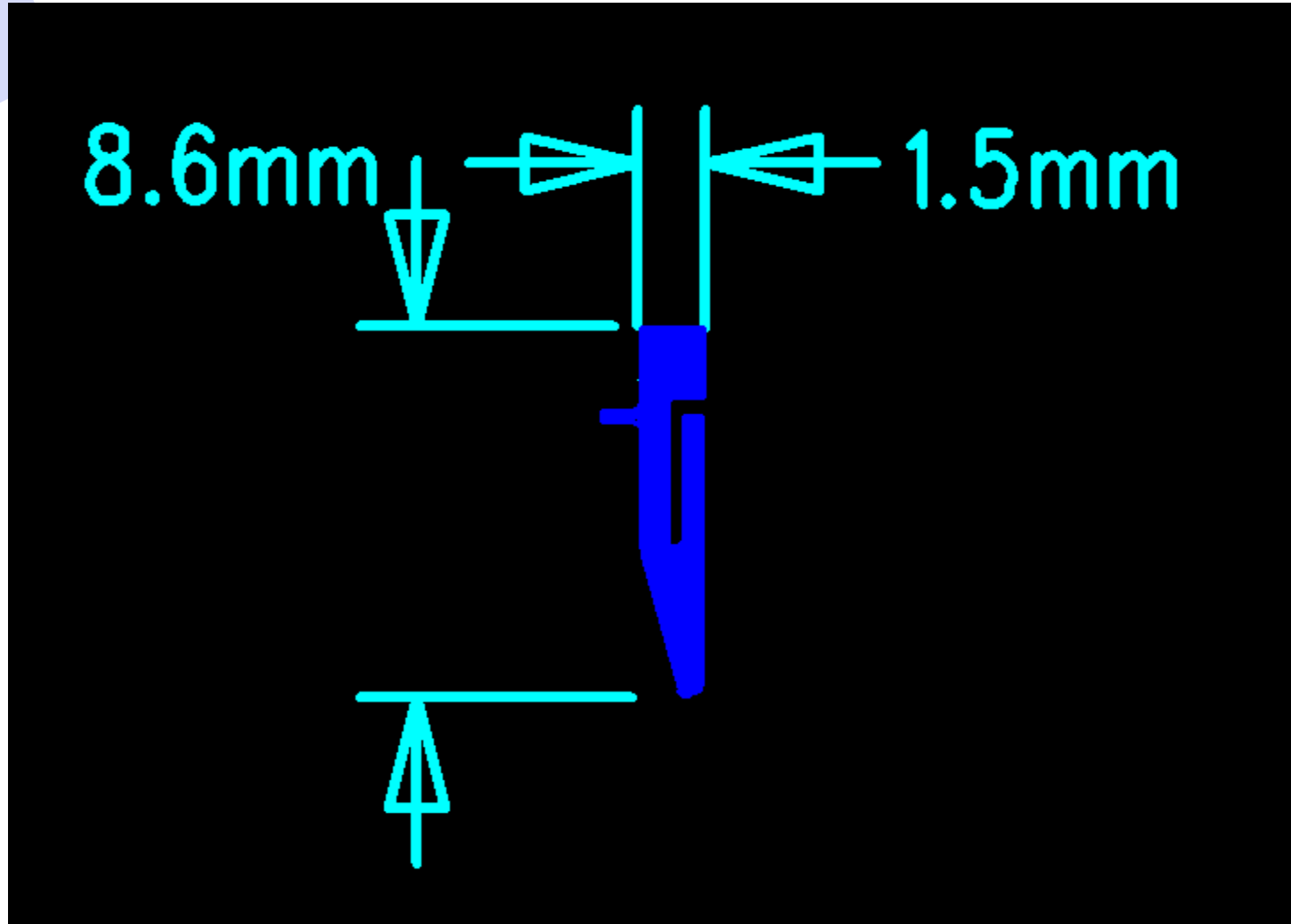


**AX21    Antenna Test Report**

|                     |             |
|---------------------|-------------|
| Customer            | liao yuan   |
| Project             | <b>AX21</b> |
| Antenna BAND        | WiFi        |
| Product Description | PCB         |
| Product No          |             |

## Product Overview & Dimension



This report is to measure the performance of BT antenna for **W1**. The antenna operating frequency at (2400–5850MHZ) , All test data are showed as below.

## ***Content***

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
  - 4.1 S11 Parameter
  - 4.2 Gain & Efficiency
  - 4.3 Test coordinate
  - 4.4 2D Pattern
  - 4.5 OTA Data
  - 4.6 WiFi Boot measured
5. Antenna Assembly & environmental processing

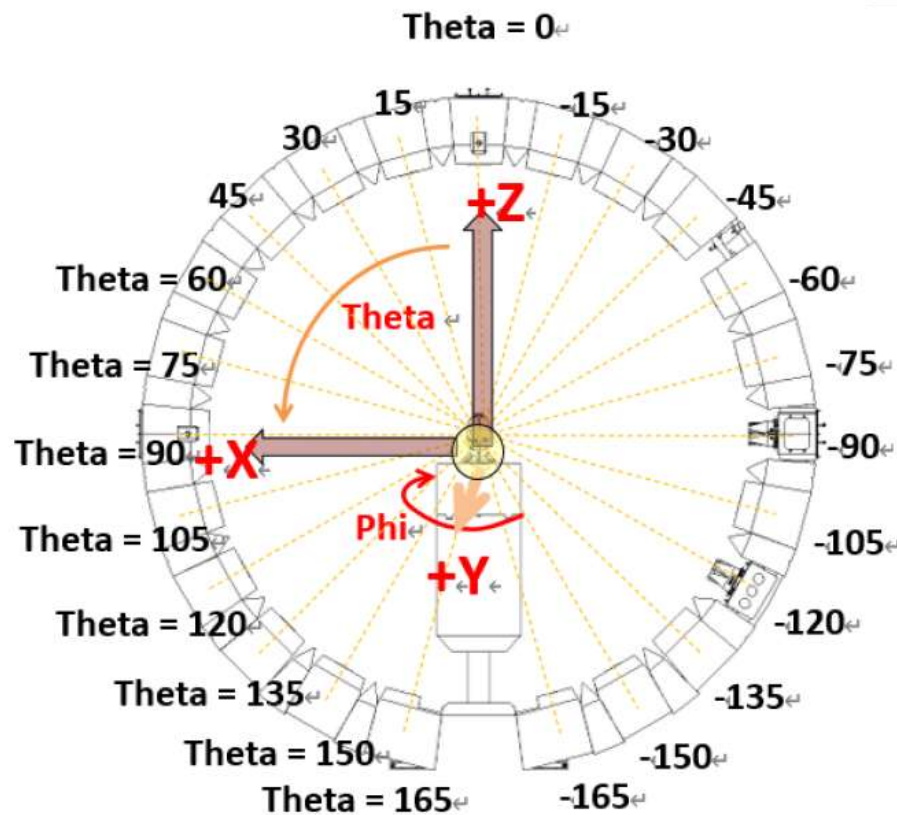
## 2. Test System

| 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       |

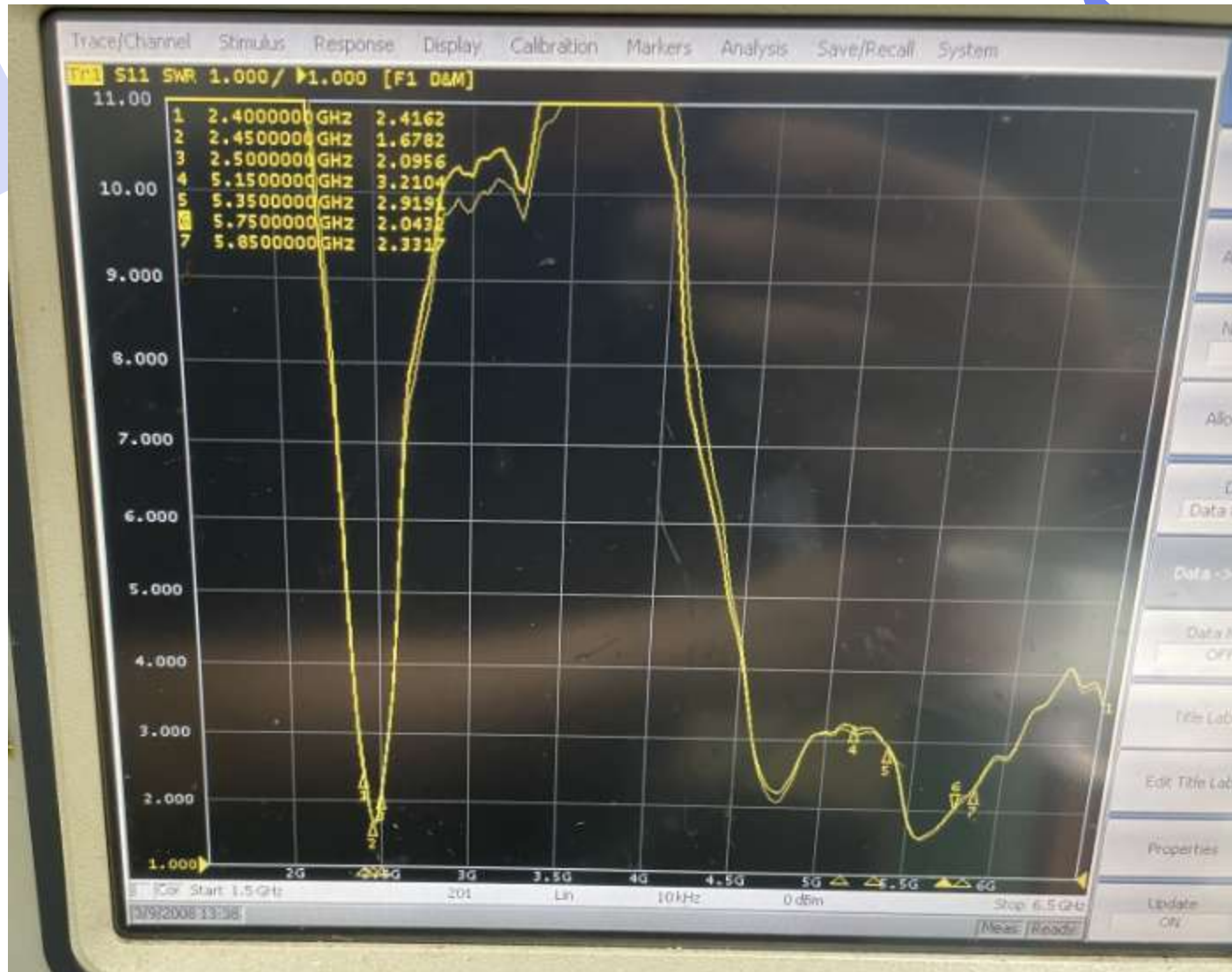


## Test Result

### Sample status & coordinates

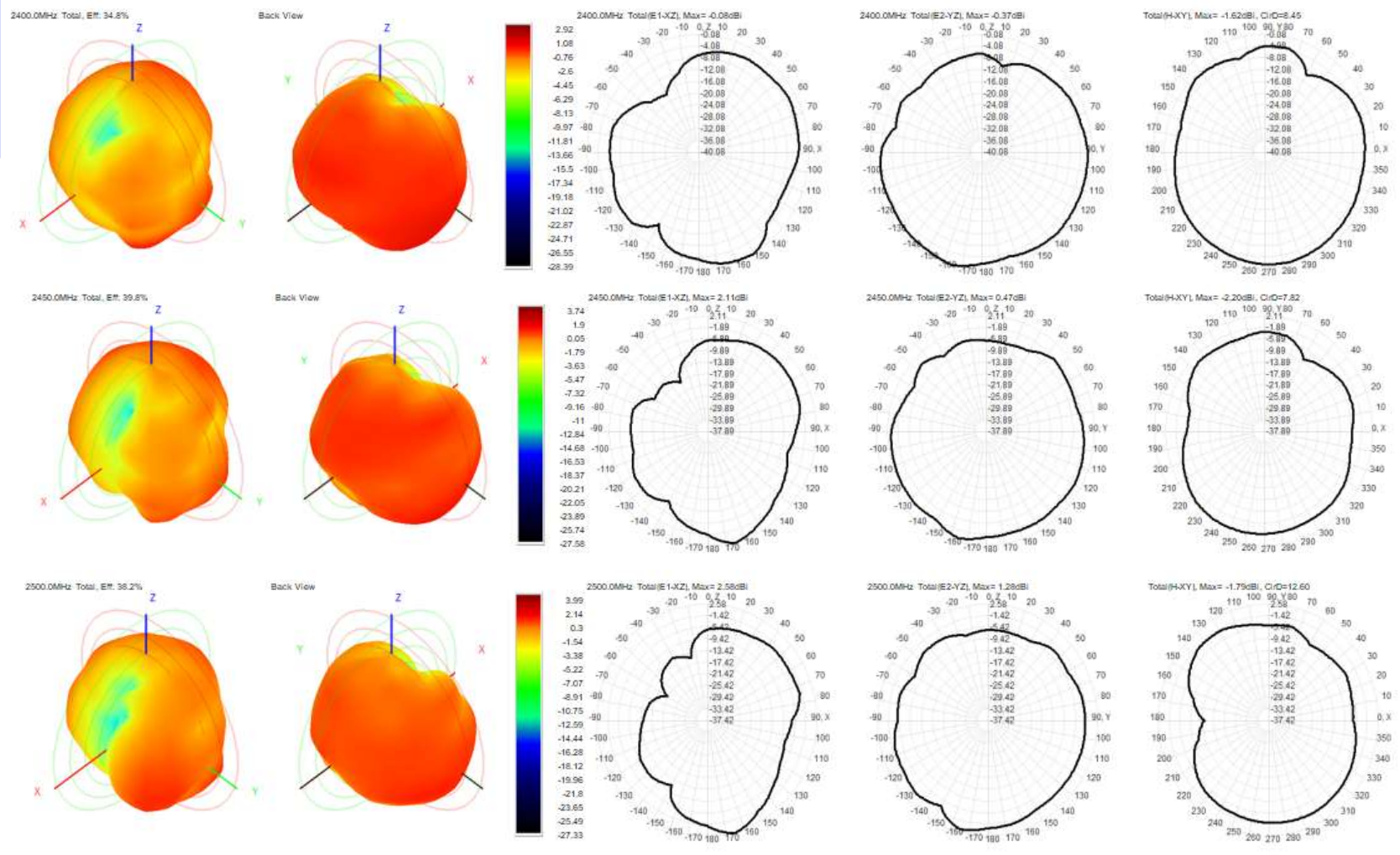


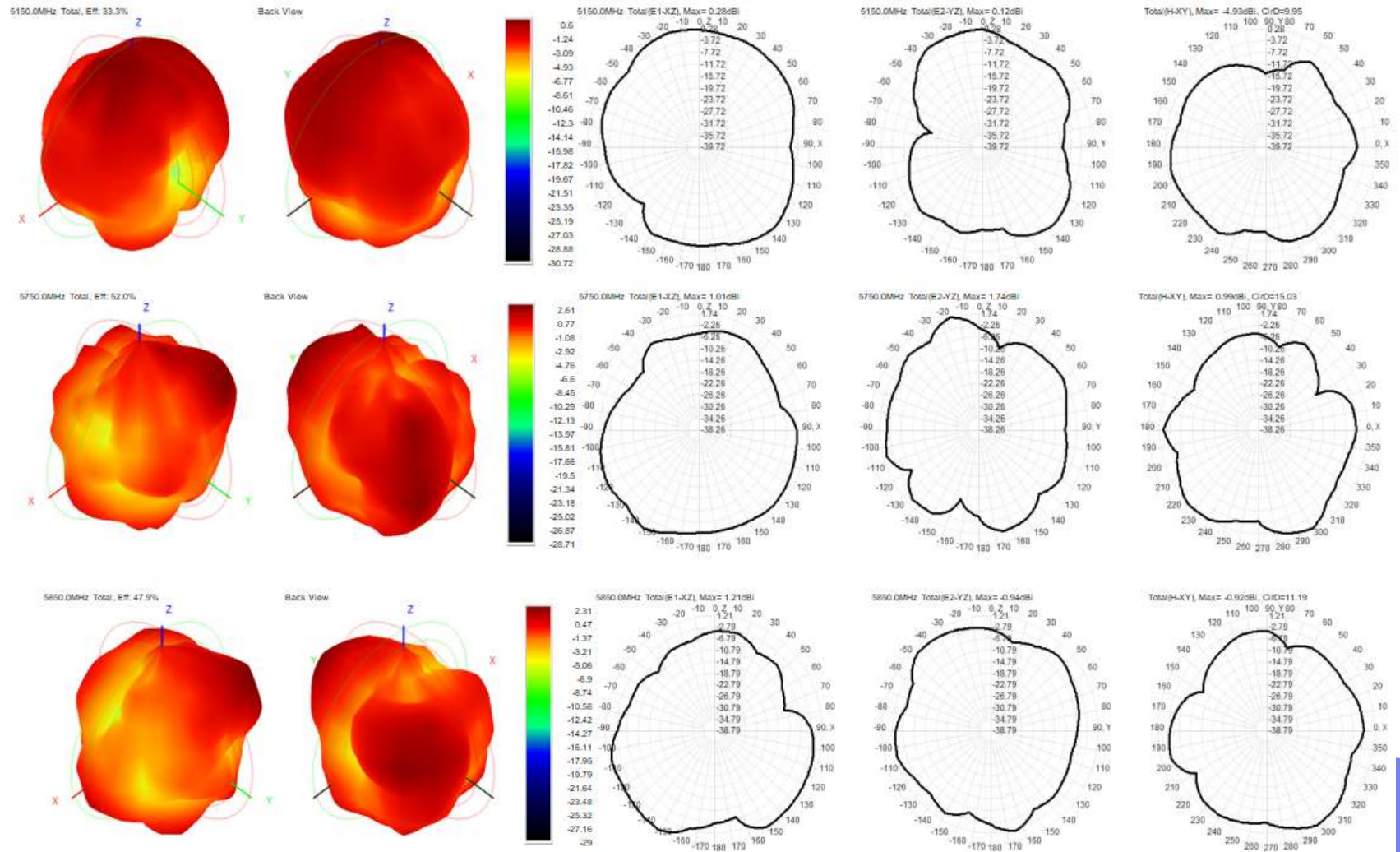
WIFI2.4+5G



天线S11

| 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)      |        |        |        | 2.92   | 3.20   | 2.83   | 2.89   | 3.15   | 3.74   | 4.04   | 4.29   | 3.83   | 4.02   | 3.99   |
| Efficiency (%)  |        |        |        | 24.79  | 25.68  | 26.13  | 28.35  | 28.77  | 29.77  | 30.65  | 29.63  | 27.37  | 27.64  | 28.22  |
|                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 12              | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     |
| 5150.0          | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| 0.60            | 0.57   | 0.60   | 0.67   | 0.66   | 0.31   | 0.50   | 1.18   | 1.91   | 2.23   | 1.76   | 2.67   | 2.61   | 2.42   | 2.31   |
| 23.32           | 24.39  | 26.96  | 25.75  | 27.13  | 28.18  | 29.81  | 29.20  | 34.32  | 38.25  | 35.10  | 38.69  | 32.04  | 21.14  | 27.85  |





***Thanks for your comment!***

---

◆ Shenzhen Ning Yi Technology Co., Ltd

◆ 1202B, Building C6, Hengfeng Industrial City, Xixiang, Bao'an District,  
Shenzhen