



# 深圳市英佳创电子科技有限公司

## 产品天线调测报告

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拟制： 黄志伟

审核： 方文锋

批准： 肖 汉

深圳公司地址： 深圳市光明区马田办事处将石宏域光明谷A&C栋

杭州公司地址： 杭州滨江区物联网街369号大华江虹国际创新园B栋212

电 话： 0755-27810060

传 真： 0755-27810057

Shenzhen address: Building A&C, Guangming Valley, Majan Office, Guangming District, Shenzhen

Hangzhou address: 212, Building B, Dahua Jianghong International Innovation Park, No. 369 Internet of Things Street, Binjiang District, Hangzhou

网 址： <http://www.szsyjc.com>

邮 箱： [yjc@szsyjc.com](mailto:yjc@szsyjc.com)

# 一、项目概况

| 客户名称       | 项目名称          | 天线实现方式   |
|------------|---------------|----------|
| JD         | S5-009        | 2.4G板载天线 |
| 工作频段 (MHz) |               |          |
| 2.4G       | 2400-2500 MHz |          |

Unit : mm

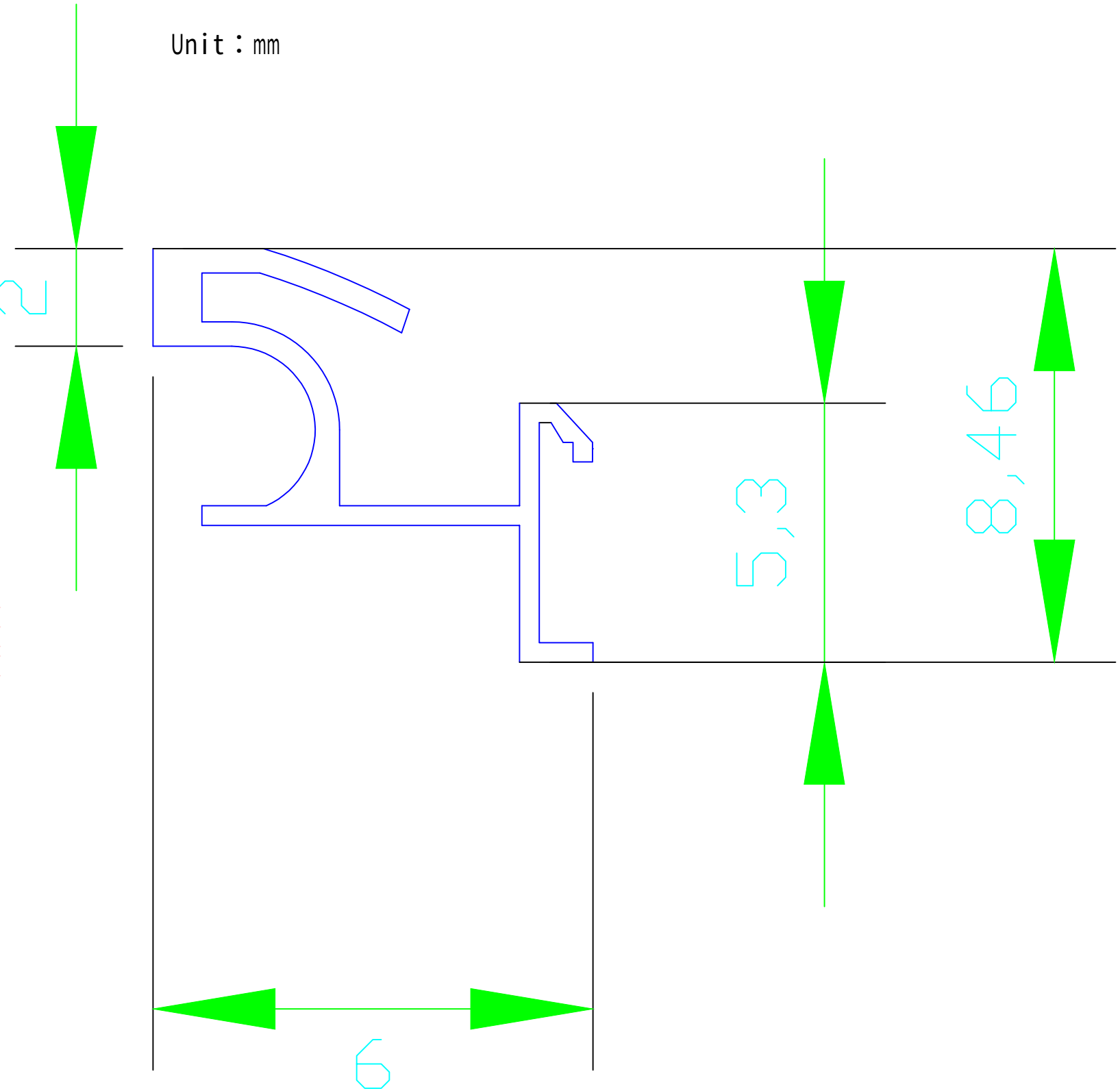
ANT

2

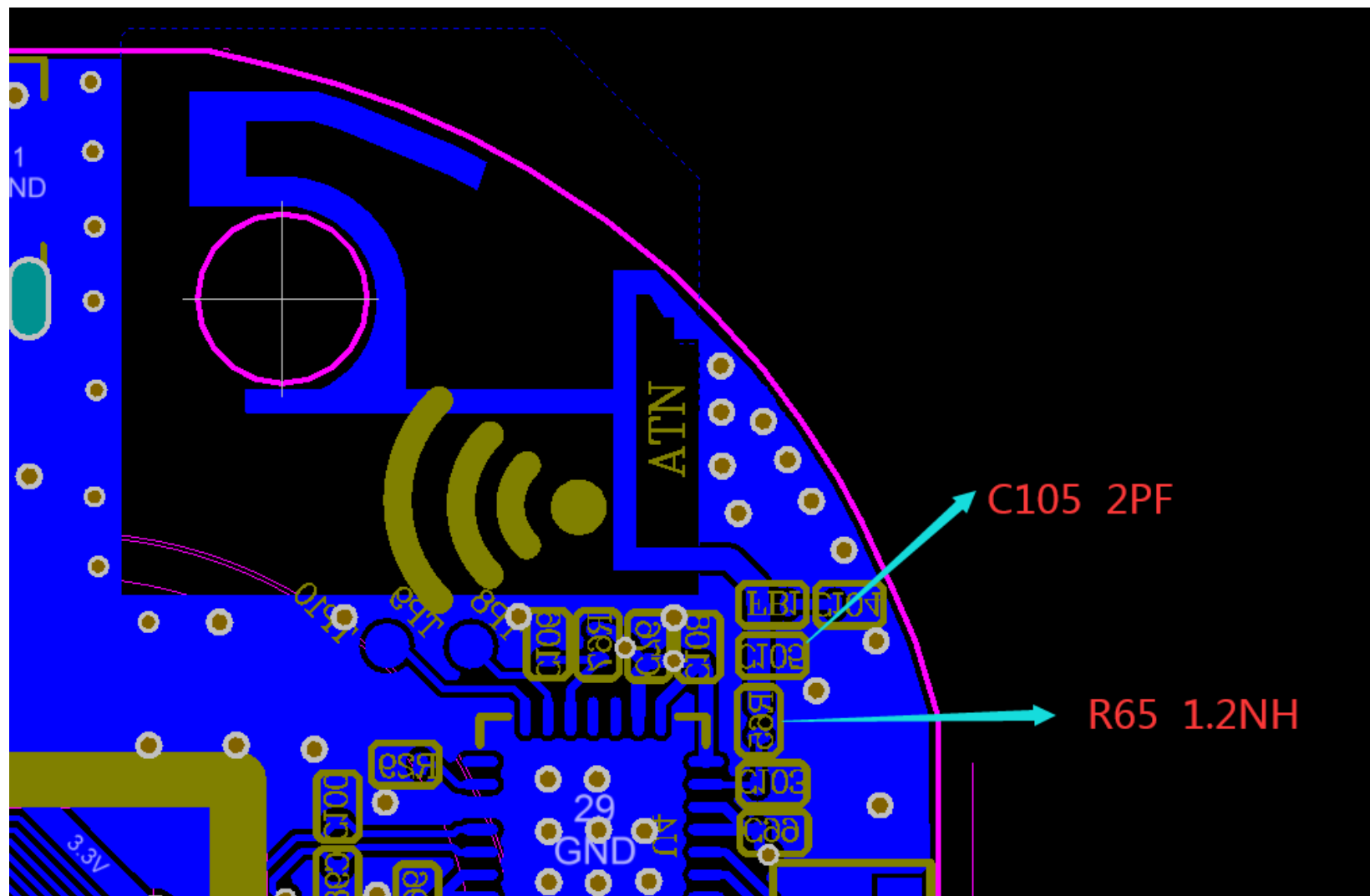
5,3

8,46

6



新天线产品匹配电路图



# 新天线网分测试图



## 新天线OTA数据

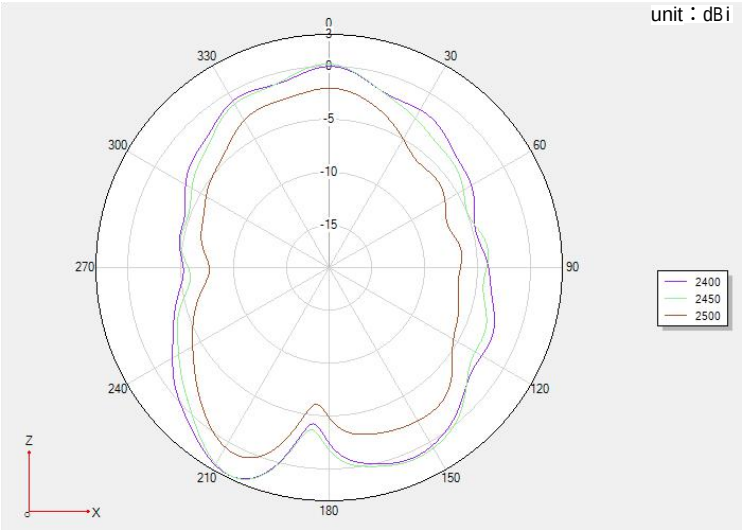
| Measurement | Standard  | Band             | Channel | Frequency | Max    | Min    | Total  |
|-------------|-----------|------------------|---------|-----------|--------|--------|--------|
| TRP         | WIFI (AP) | WIFI_B (11M)     | 1       | 2412      | 17.98  | 2.43   | 11.73  |
| TRP         | WIFI (AP) | WIFI_B (11M)     | 6       | 2437      | 14.73  | -0.19  | 10.47  |
| TRP         | WIFI (AP) | WIFI_B (11M)     | 11      | 2462      | 14.57  | -2.66  | 10.39  |
| TIS(EIRP)   | WIFI (AP) | WIFI_B (11M)     | 1       | 2412      | -48.08 | -63.59 | -59.38 |
| TIS(EIRP)   | WIFI (AP) | WIFI_B (11M)     | 6       | 2437      | -55.8  | -69.36 | -65.39 |
| TIS(EIRP)   | WIFI (AP) | WIFI_B (11M)     | 11      | 2462      | -56.82 | -69.86 | -65.93 |
| TRP         | WIFI (AP) | WIFI_G (54M)     | 1       | 2412      | 14.52  | 1.62   | 10.14  |
| TRP         | WIFI (AP) | WIFI_G (54M)     | 6       | 2437      | 13.2   | -18.65 | 8.86   |
| TRP         | WIFI (AP) | WIFI_G (54M)     | 11      | 2462      | 13.13  | 0.86   | 9.07   |
| TIS(EIRP)   | WIFI (AP) | WIFI_G (54M)     | 1       | 2412      | -46.56 | -61.46 | -57    |
| TIS(EIRP)   | WIFI (AP) | WIFI_G (54M)     | 6       | 2437      | -46.23 | -68.95 | -64.66 |
| TIS(EIRP)   | WIFI (AP) | WIFI_G (54M)     | 11      | 2462      | -48.67 | -67.19 | -63.11 |
| TRP         | WIFI (AP) | WIFI_N_ISM (60M) | 1       | 2412      | 13.59  | -12.02 | 7.19   |
| TRP         | WIFI (AP) | WIFI_N_ISM (60M) | 6       | 2437      | 10.38  | 1.69   | 6.83   |
| TRP         | WIFI (AP) | WIFI_N_ISM (60M) | 11      | 2462      | 7.59   | -2.04  | 5.36   |

新天线无源测试数据

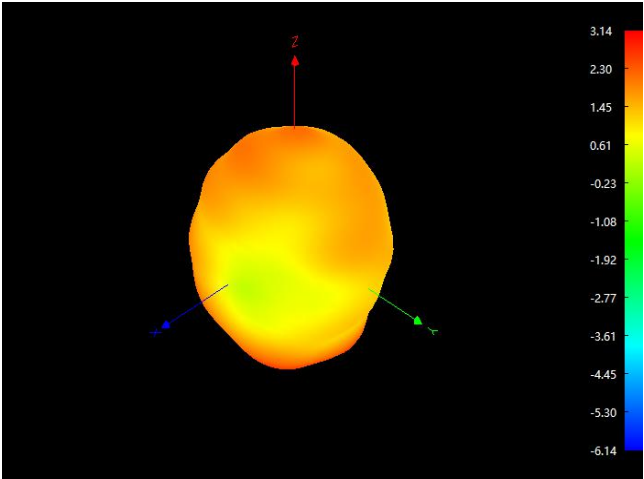
| Frequency | Efficiency<br>(%) | Gain.<br>(dBi) |
|-----------|-------------------|----------------|
| 2400      | 54.2              | 2.98           |
| 2410      | 60.67             | 2.81           |
| 2420      | 54.58             | 2.82           |
| 2430      | 55.08             | 2.74           |
| 2440      | 52.48             | 2.71           |
| 2450      | 55.08             | 3.00           |
| 2460      | 46.99             | 2.85           |
| 2470      | 41.69             | 2.24           |
| 2480      | 38.55             | 2.09           |
| 2490      | 36.56             | 1.41           |
| 2500      | 31.05             | 0.99           |

# 天线测试3D图

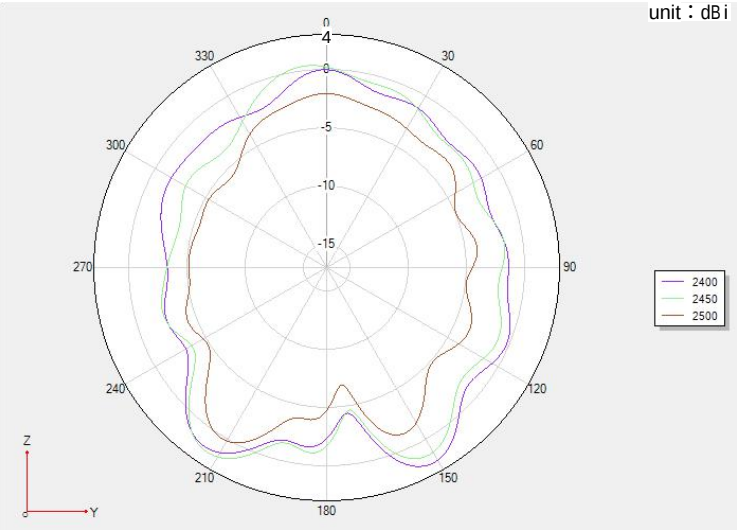
Phi 0 2D图



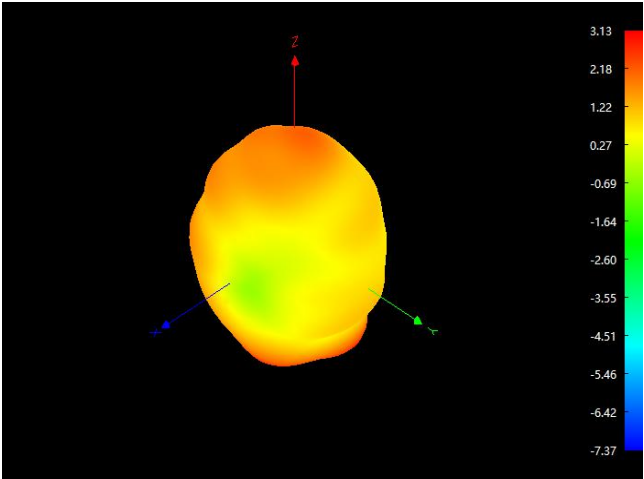
2400



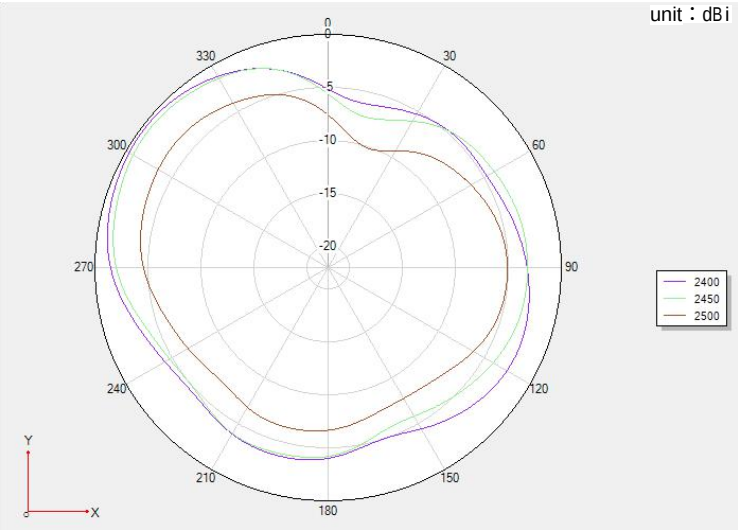
Phi 90 2D图



2450



Theta 90 2D图



2500

