

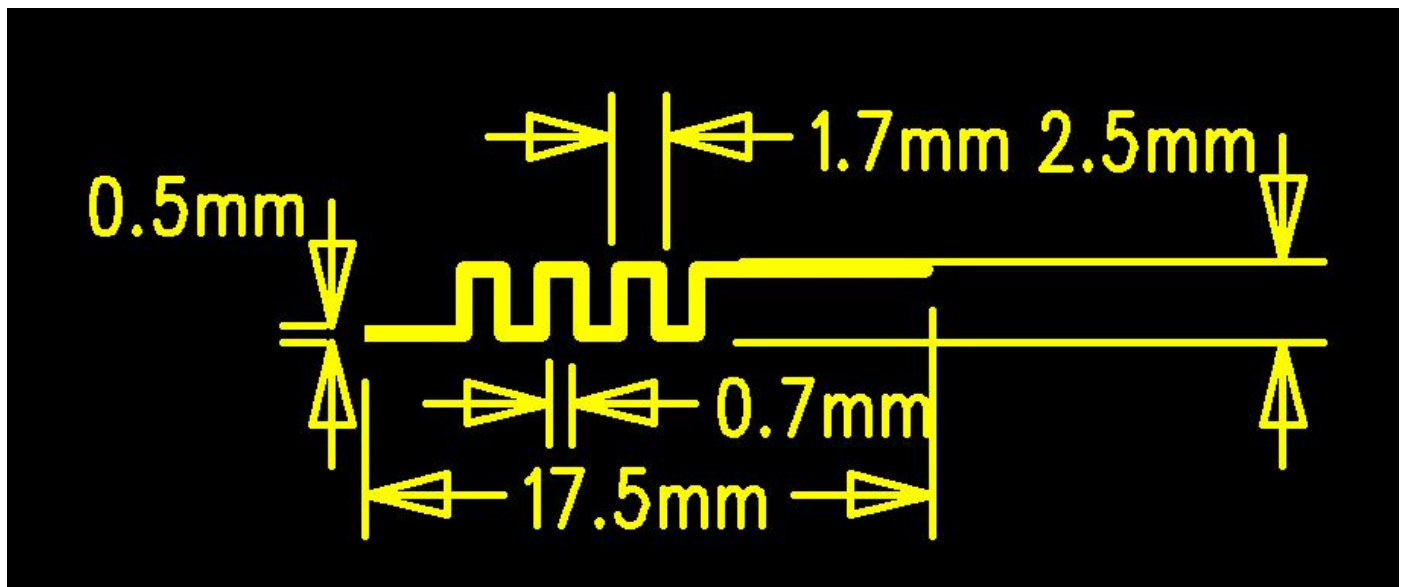
# Antenna Specification

## Specifications

### Summary

| ITEM                 | SPEC.                                     |                                  |
|----------------------|-------------------------------------------|----------------------------------|
| Model Name           | ISM 2.4 GHz                               |                                  |
| Center Frequency     | 2402.65 MHz<br>2441.65 MHz<br>2480.65 MHz | 3.85 dBi<br>3.18 dBi<br>2.80 dBi |
| MAX. GAIN            | 3.85 dBi                                  |                                  |
| Polarization         | Horizontal                                |                                  |
| Azimuth Beam Pattern | Omni-directional                          |                                  |
| Impedance            | 50 $\Omega$                               |                                  |
| Antenna Length       | 41 mm                                     |                                  |

### Antenna Photo & Length



# 1. Main antenna : 2441.65 MHz

## 1.1 Horizontal



**Advance Data Technology Corporation**

**誠信科技股份有限公司**

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Hsichih Lab: 81-1 Lillackeng, 9th Lin, Wuling Tseih, Chinglin, Hsichih, Taiwan, R.O.C.

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

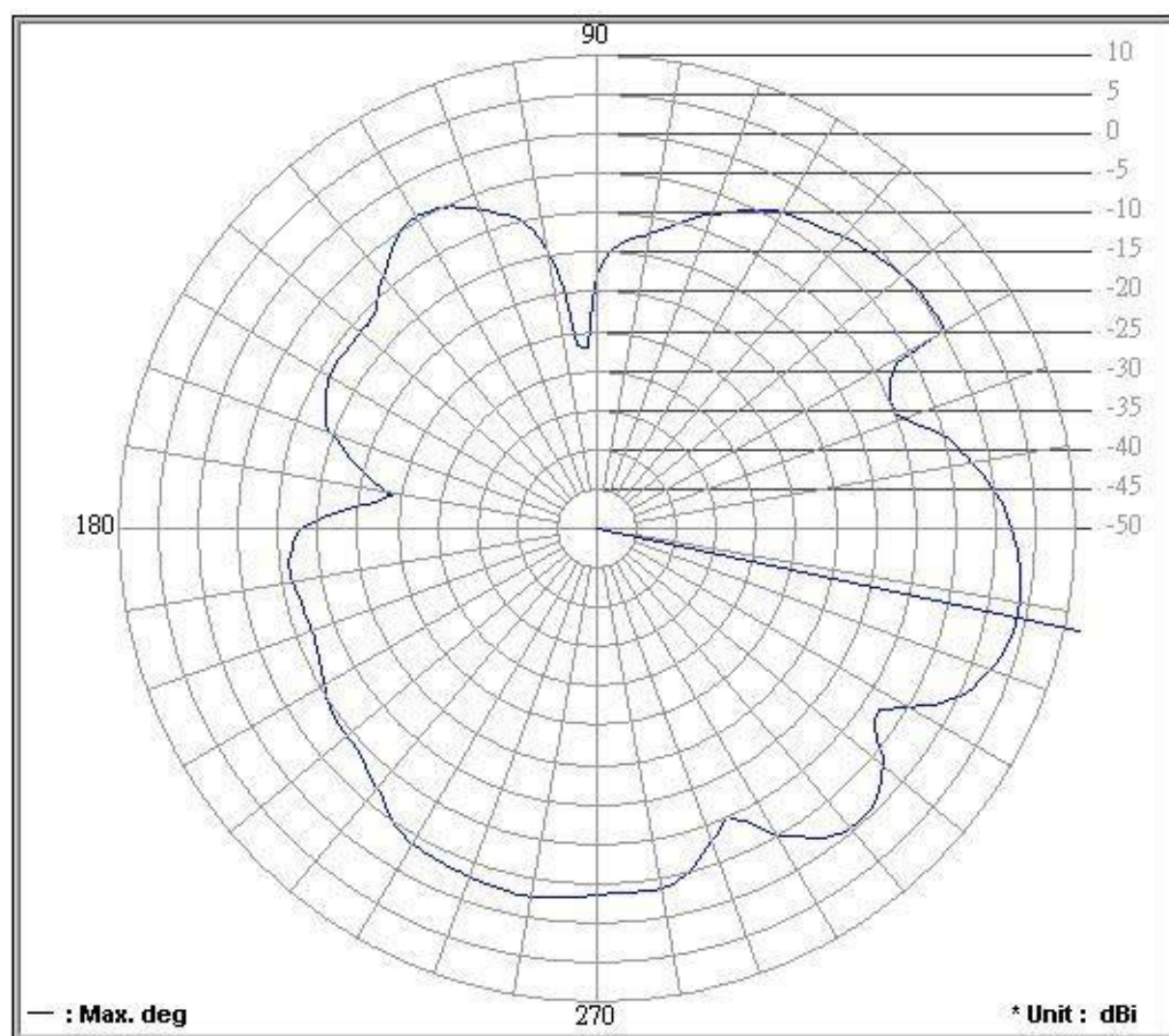
Date: 2015/11/16

Time: **15:20:43**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): 2402.65

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-3.64**

Maximum Gain (dB) : **3.85**

Maximum Gain (degree) : **348**

Minimum Gain (dB) : **-27.08**

Minimum Gain (degree) : **93**

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## 1.2 Vertical



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Hsichia Lab: 81-1 Lilaokeng, 9th Lla, Wuling Tzuen, Cihinglin, Hsichia, Taiwan, R.O.C.

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

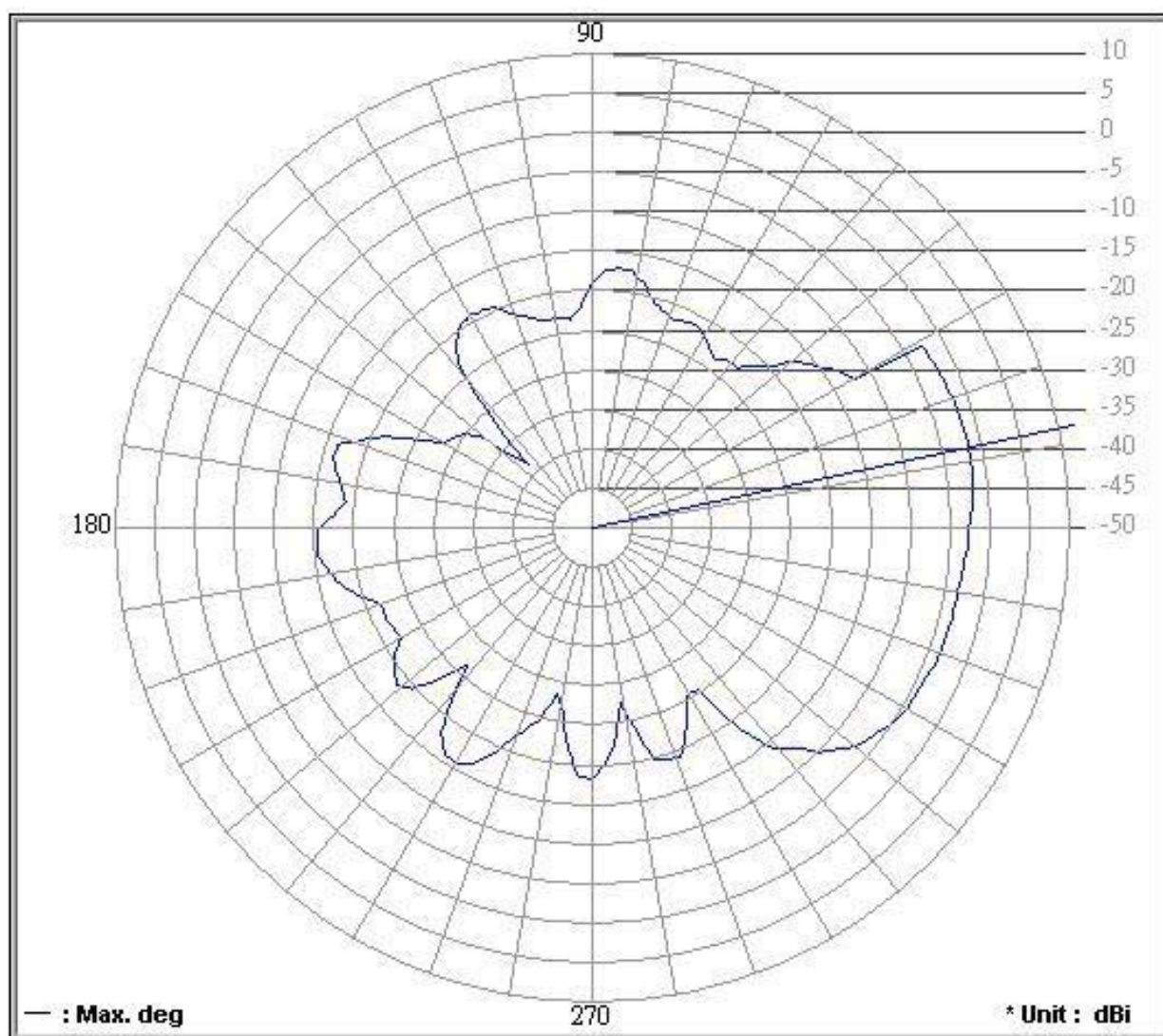
Date: 2015/11/16

Time: **15:34:49**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): 2402.65

Antenna Polarity: **Vertical**

Average Gain (dB): **-9.57**

Maximum Gain (dB): **-1.54**

Maximum Gain (degree): **12**

Minimum Gain (dB): **-38.76**

Minimum Gain (degree): **135**

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## 2.Main antenna : 2441.65 MHz

### 2.1 Horizontal



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Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

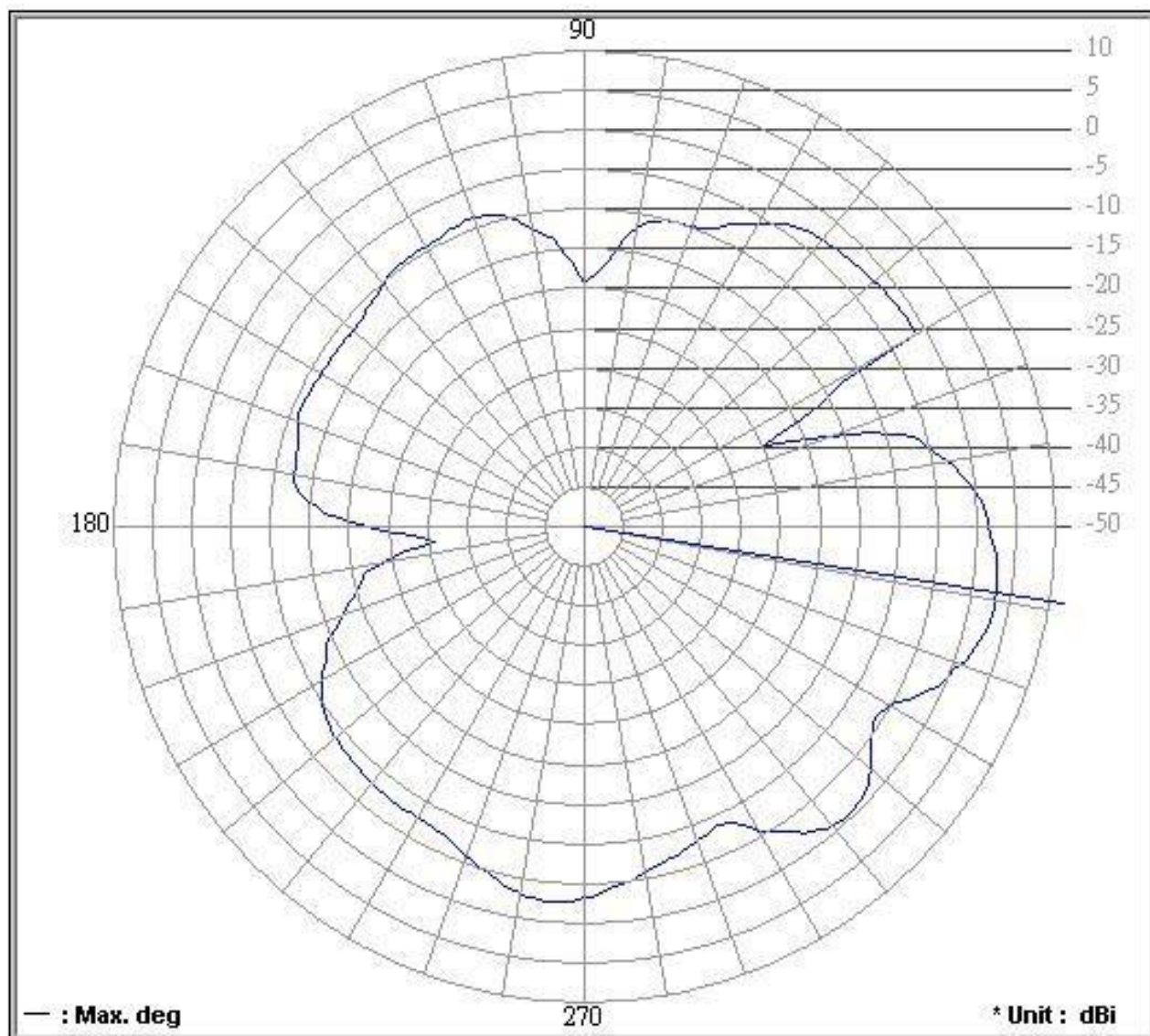
Date: 2015/11/16

Time: **15:23:51**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): 2441.65

Antenna Polarity: **Horizontal**

Average Gain (dB): **-4.64**

Maximum Gain (dB): **3.18**

Maximum Gain (degree): **351**

Minimum Gain (dB): **-30.92**

Minimum Gain (degree): **186**

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## 2.2 Vertical



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Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLEY

EUT description :

Location: **RF Chamber3**

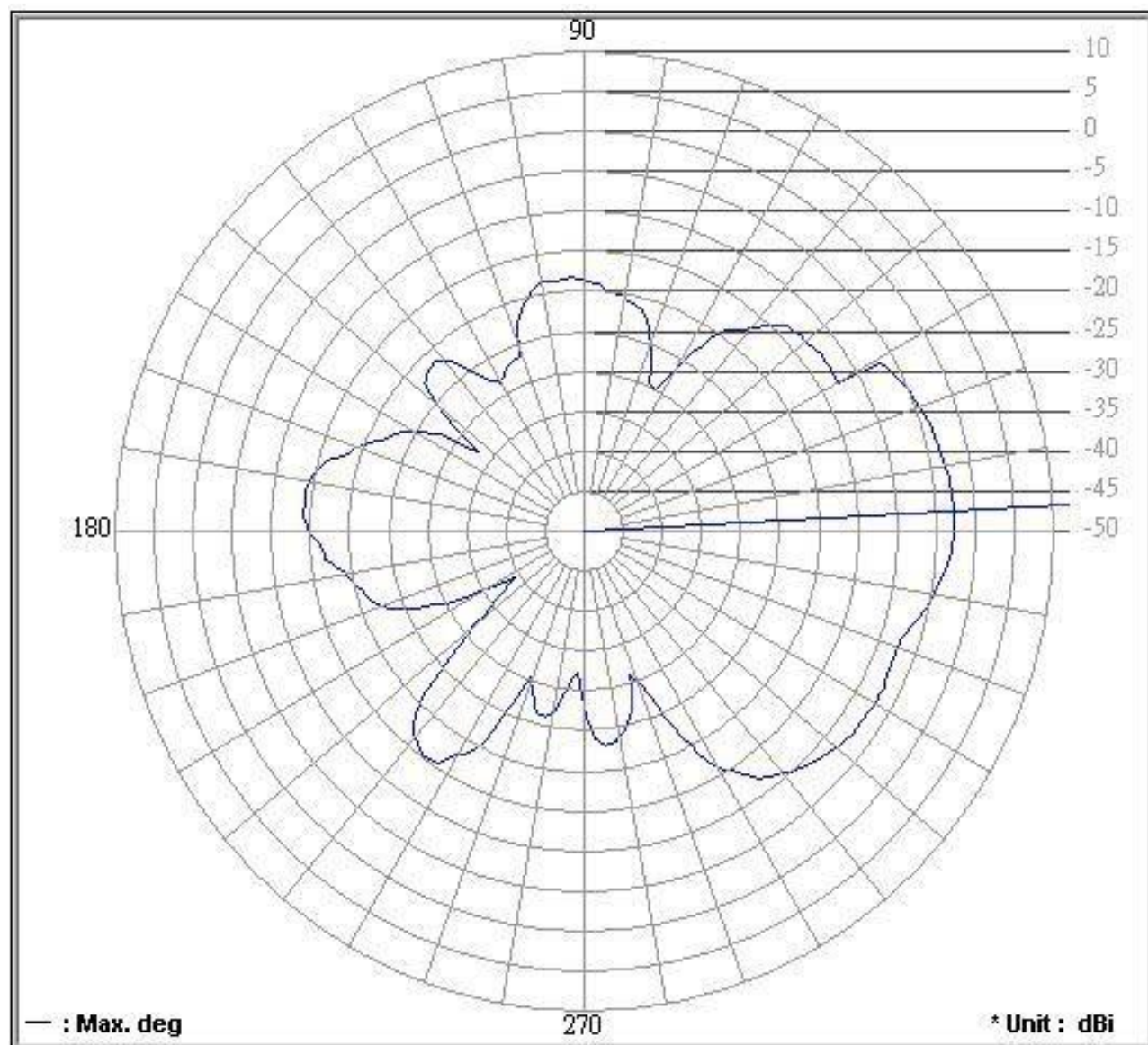
Date: 2015/11/16

Time: **15:32:20**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : 2441.65

Antenna Polarity : **Vertical**

Average Gain (dB) : **-11.06**

Maximum Gain (dB) : **-2.58**

Maximum Gain (degree) : **3**

Minimum Gain (dB) : **-39.35**

Minimum Gain (degree) : **213**

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