

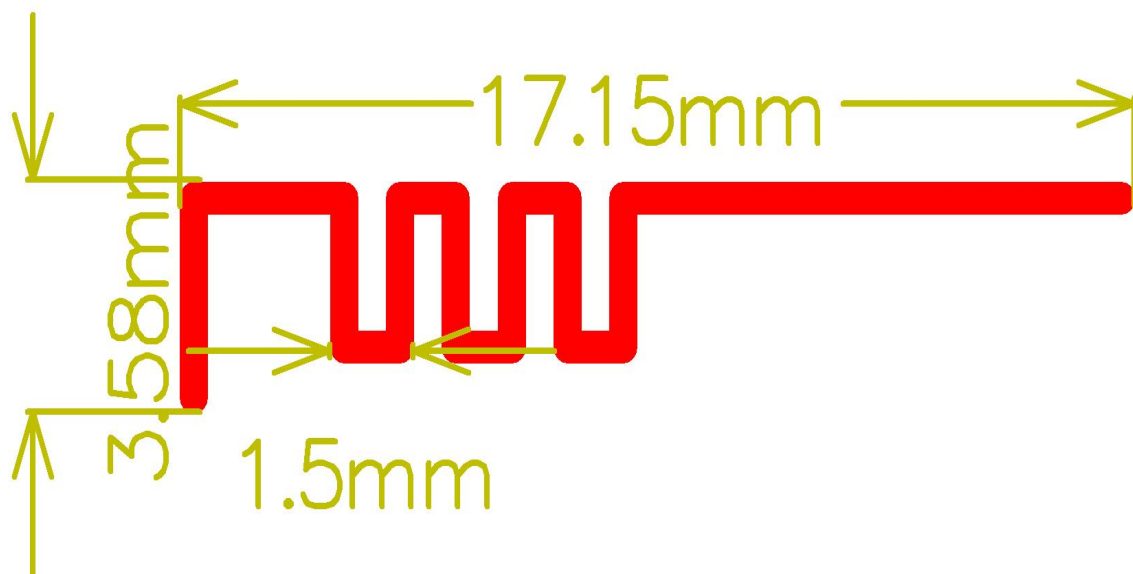
Antenna Specification

Specifications

Summary

ITEM	SPEC.	
Model Name	ISM 2.4 GHz	
Center Frequency	2403.65 MHz 2441.65 MHz 2479.65 MHz	3.85 dBi 3.18 dBi 2.80 dBi
MAX. GAIN	3.85 dBi	
Polarization	Horizontal	
Azimuth Beam Pattern	Omni-directional	
Impedance	50 Ω	
Antenna Length	17.15 mm	
Manufacturer:	SHENZHEN HENGSHANG ELECTRONIC CO., LTD	

Antenna Photo & Length



1.Main antenna : 2403.65 MHz

1.1 Horizontal



Advance Data Technology Corporation

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Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kwei San, Taoyuan, Taiwan, R.O.C.

Tayuan Lab : 13-1 Lane 19, Wu Kuan 3rd St, Kwei San, Taoyuan, Taiwan, R.O.C.

Hsichin Lab: 81-1 Lillackeng, 9th Lin, Wuling Tsten, Cikinglin, Hsichin, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-8050

Tel (03) 327-0910 Fax (03) 327-0892

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

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

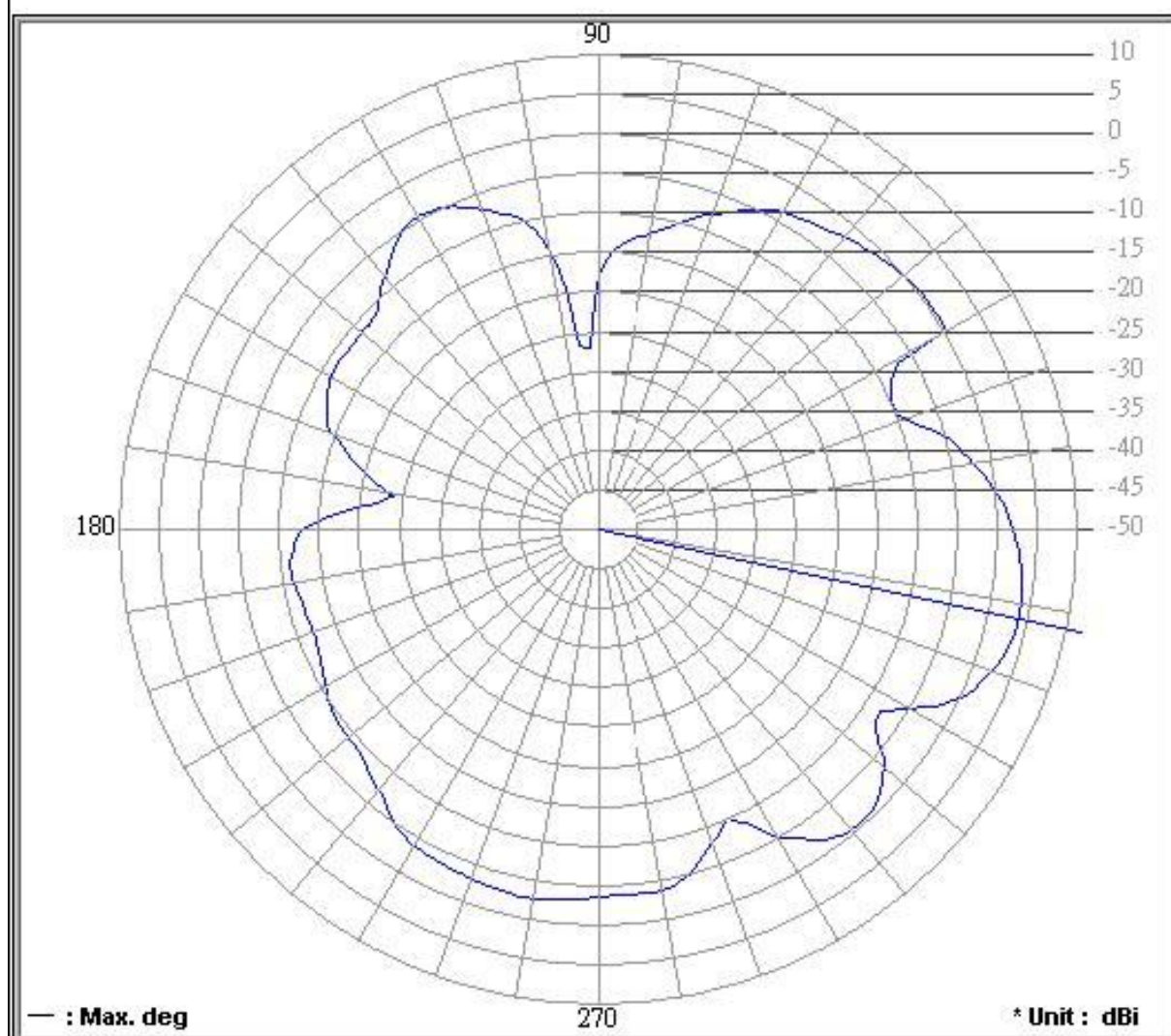
Date: **2018/8/16**

Time: **15:20:43**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2403.65**

Antenna Polarity : **Horizontal**

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

Maximum Gain (dB) :

Maximum Gain (degree) : **346**

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

Minimum Gain (degree) : **93**

C:\Antenna Pattern V5.0\Graph\0818\08180019.png

1.2 Vertical



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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**

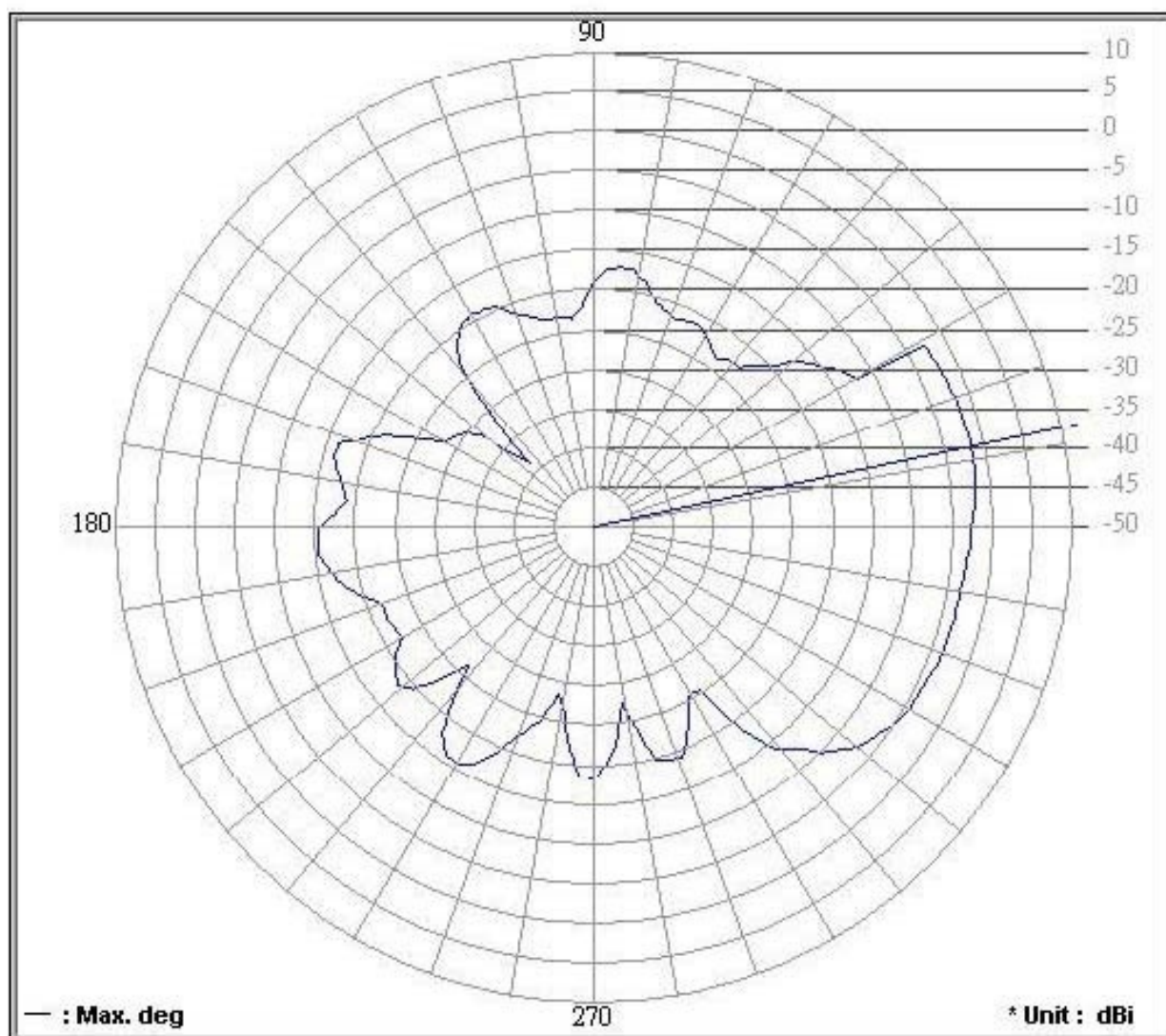
Date: **2018/8/16**

Time: **15:34:49**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2403.65**

Antenna Polarity: **Vertical**

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

Maximum Gain (dB):

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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Brand / Model : IBM 2.4G-Hz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

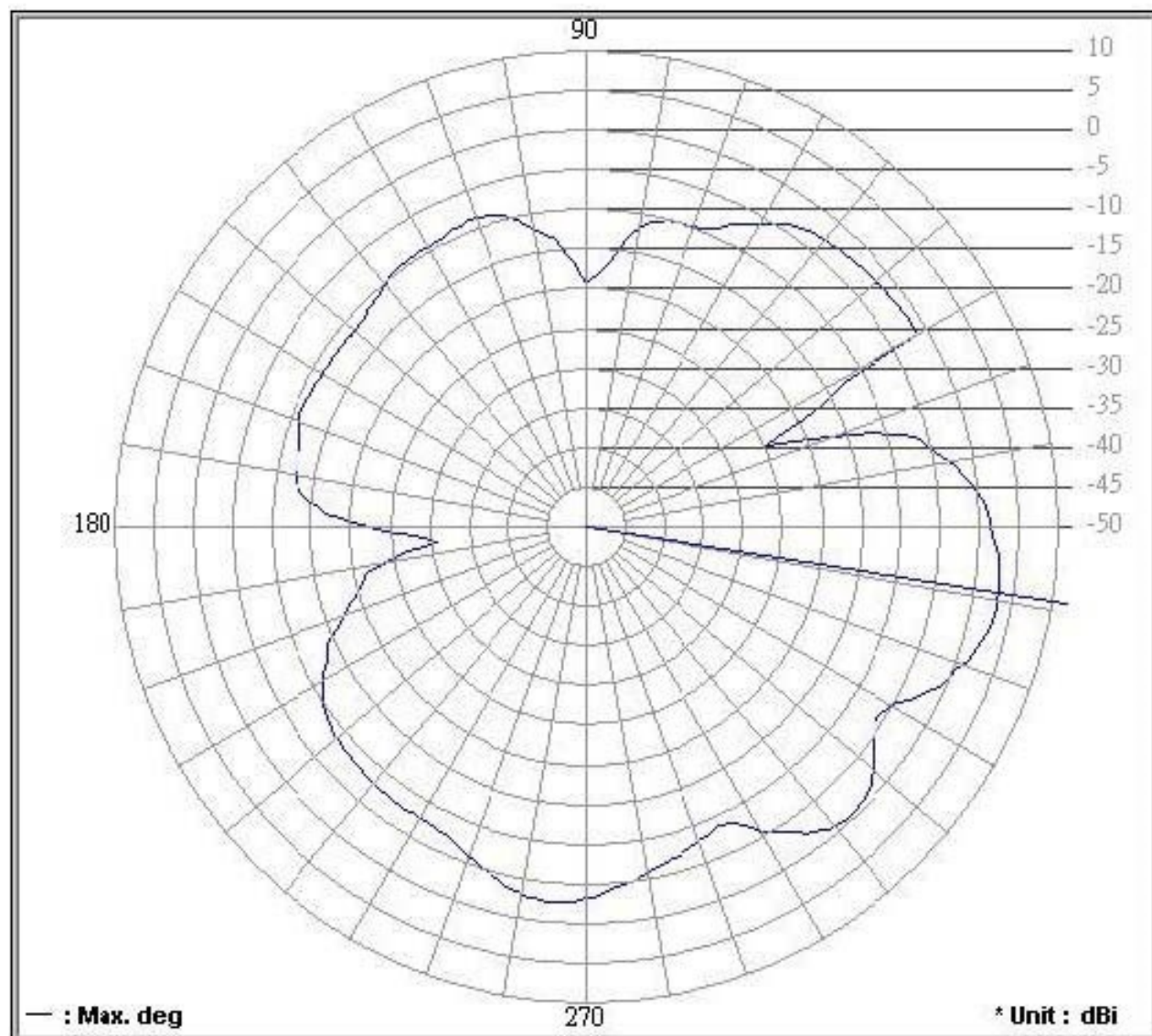
Date: **2018/8/16**

Time: **15:23:51**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2441.65** Antenna Polarity: **Horizontal** Average Gain (dBi): **-4.64**

Maximum Gain (dBi): **-30.92** Maximum Gain (degree): **351**

Minimum Gain (dBi): **-30.92** Minimum Gain (degree): **186**

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2.2 Vertical



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

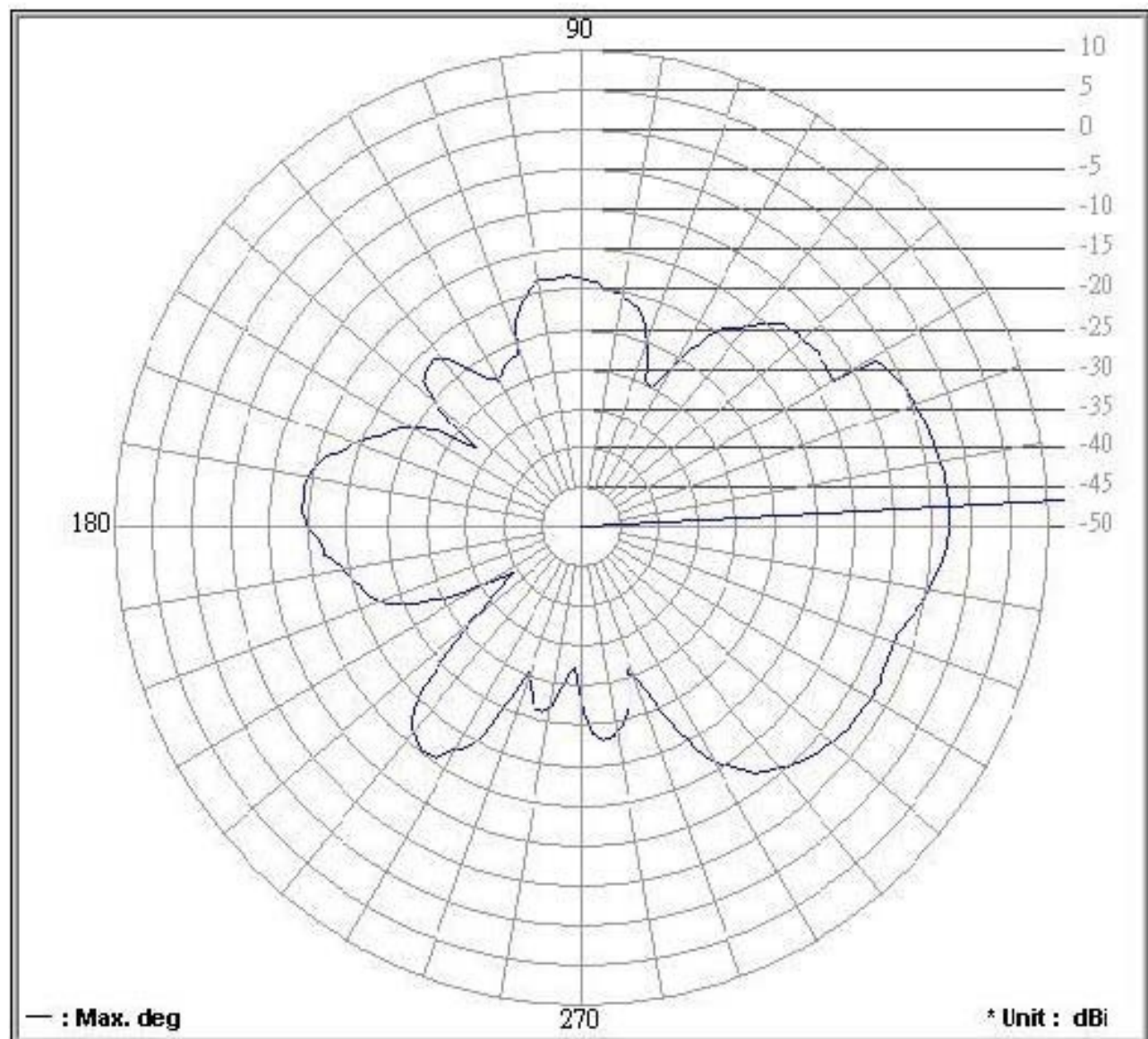
Date: **2018/8/16**

Time: **15:32:20**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2441.65**

Antenna Polarity: **Vertical**

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

Maximum Gain (dB):

Maximum Gain (degree): **3**

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

Minimum Gain (degree): **213**

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3.Main antenna : 2479.65 MHz

3.1 Horizontal



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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

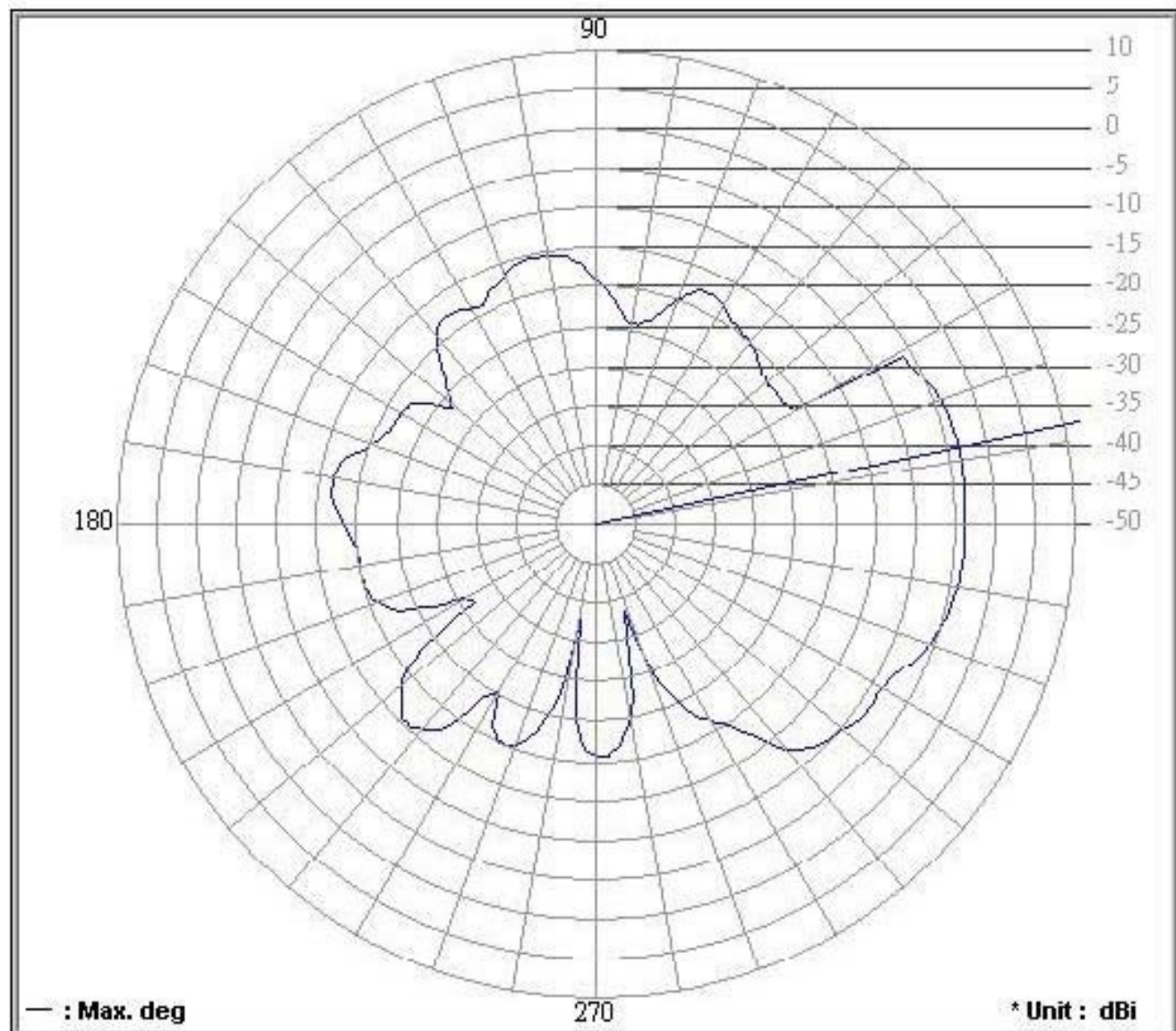
Date: **2018/8/16**

Time: **15:29:55**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2479.65**

Antenna Polarity : **Vertical**

Average Gain (dB) : **-11.34**

Maximum Gain (dB) :

Maximum Gain (degree) : **12**

Minimum Gain (dB) : **-38.33**

Minimum Gain (degree) : **288**

C:\Antenna Pattern V5.0\Graph\0818\08180022.png

3.2 Vertical



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Tel (886) 603-6343 Fax (886) 603-6342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

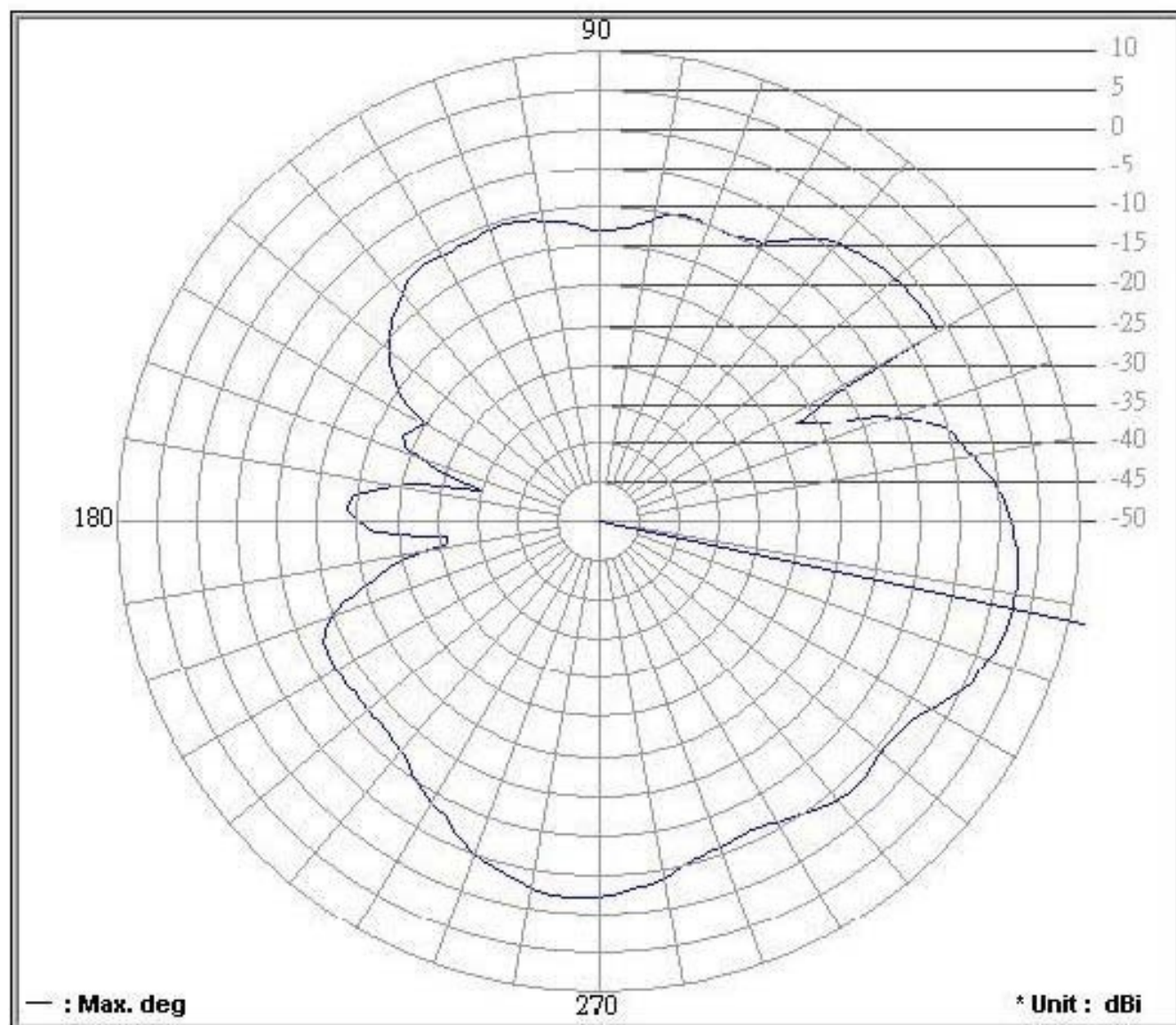
Date: **2018/8/16**

Time: **15:26:19**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2479.65**

Antenna Polarity: **Horizontal**

Average Gain (dB): **-4.84**

Maximum Gain (dB):

Maximum Gain (degree): **348**

Minimum Gain (dB): **-34.80**

Minimum Gain (degree): **165**

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4. Result

Center Frequency		Maximum Ant Gain
2403.65 MHz	H	3.85 dBi
	V	-1.54 dBi
2441.65 MHz	H	3.18 dBi
	V	-2.58 dBi
2479.65 MHz	H	2.80 dBi
	V	-3.47 dBi