

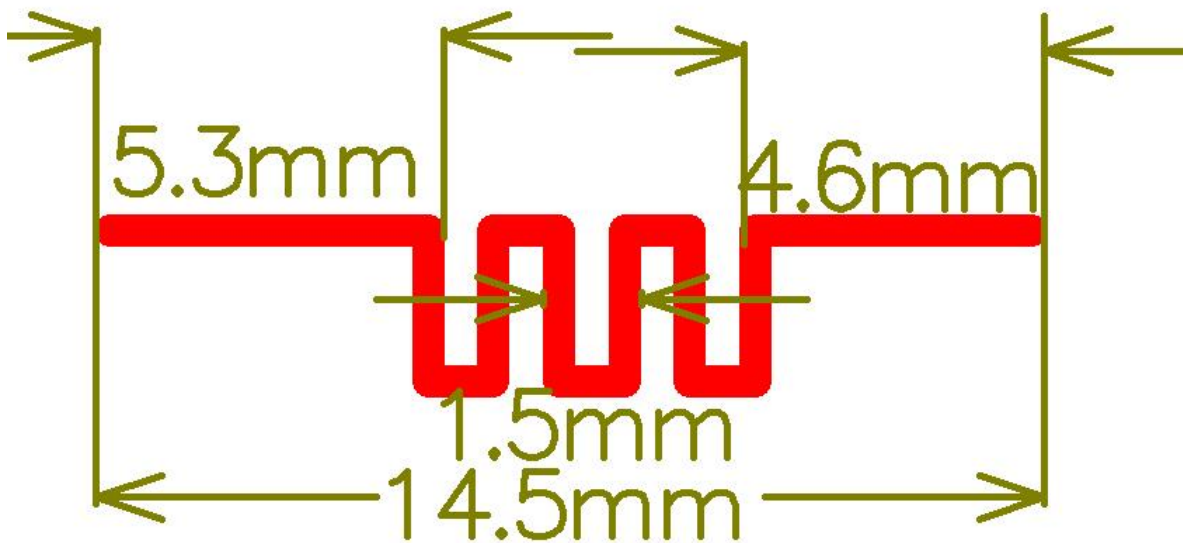
Antenna Specification

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	14.5 mm	

Antenna Photo & Length



1.Main antenna : 2403.65 MHz

1.1 Horizontal



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

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Tel (886) 593-5343 Fax (886) 593-5342

Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

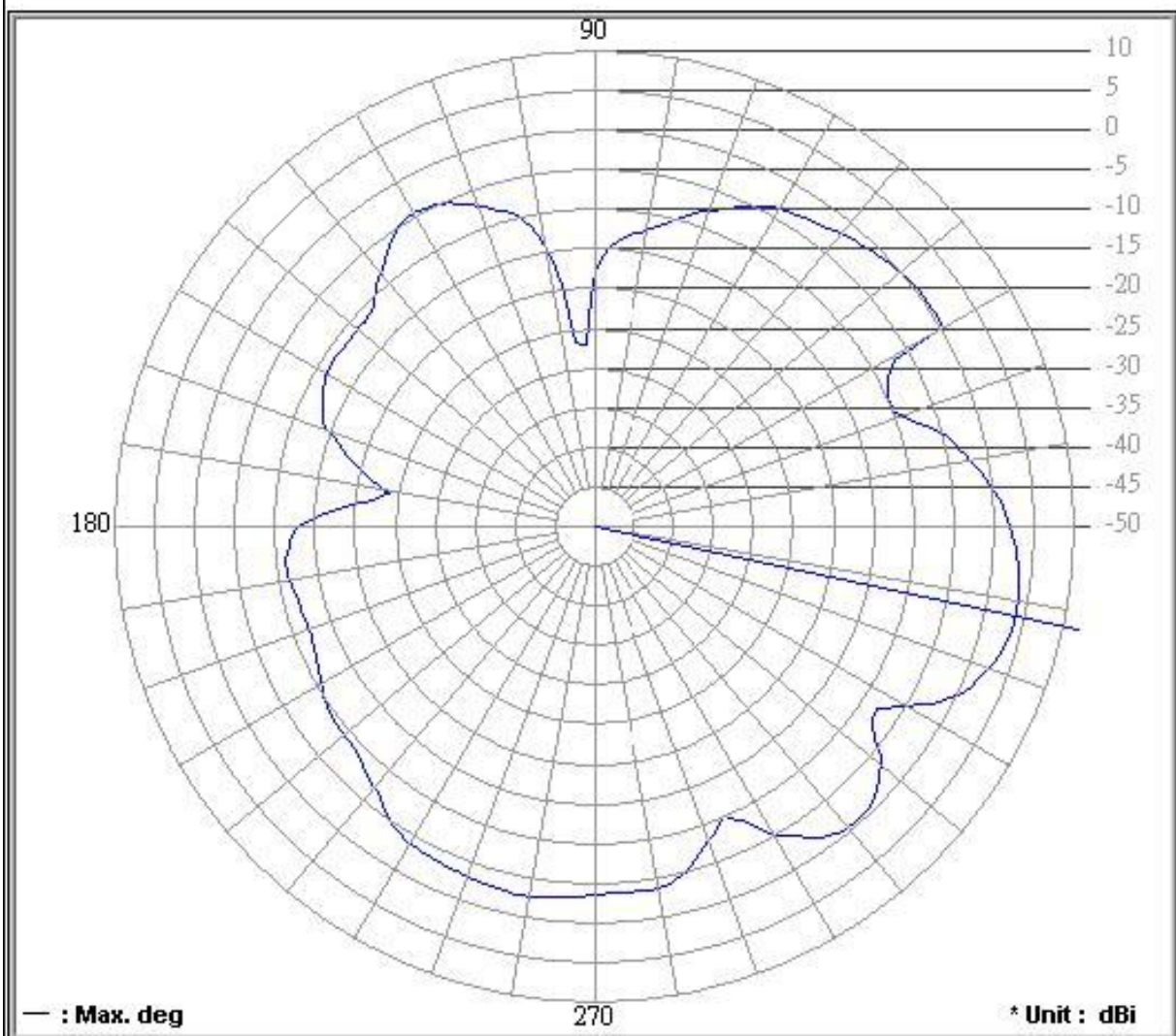
Date: **2018/8/16**

Time: **15:20:43**

Temperature (°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**

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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**

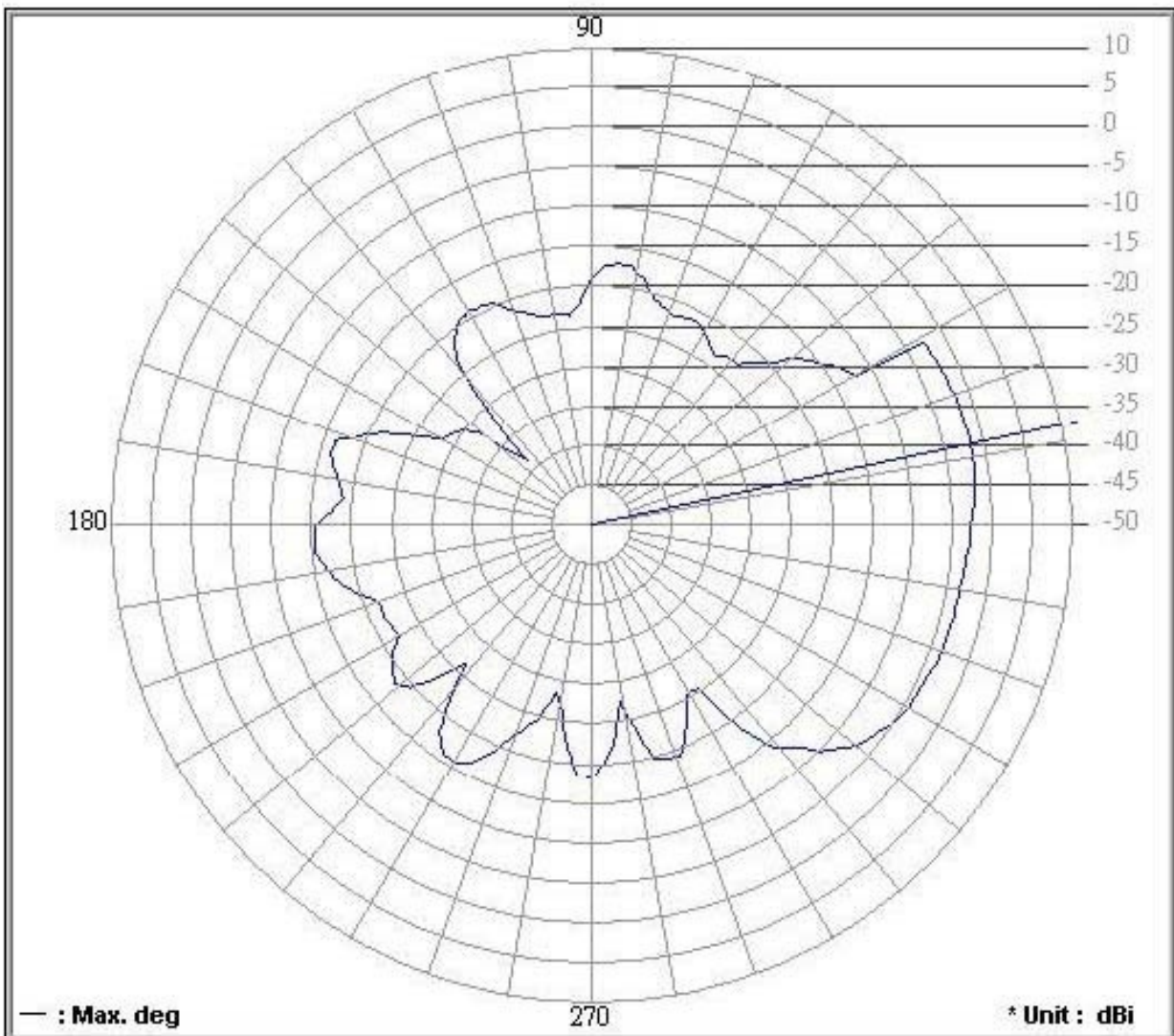
Date: **2018/8/16**

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 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

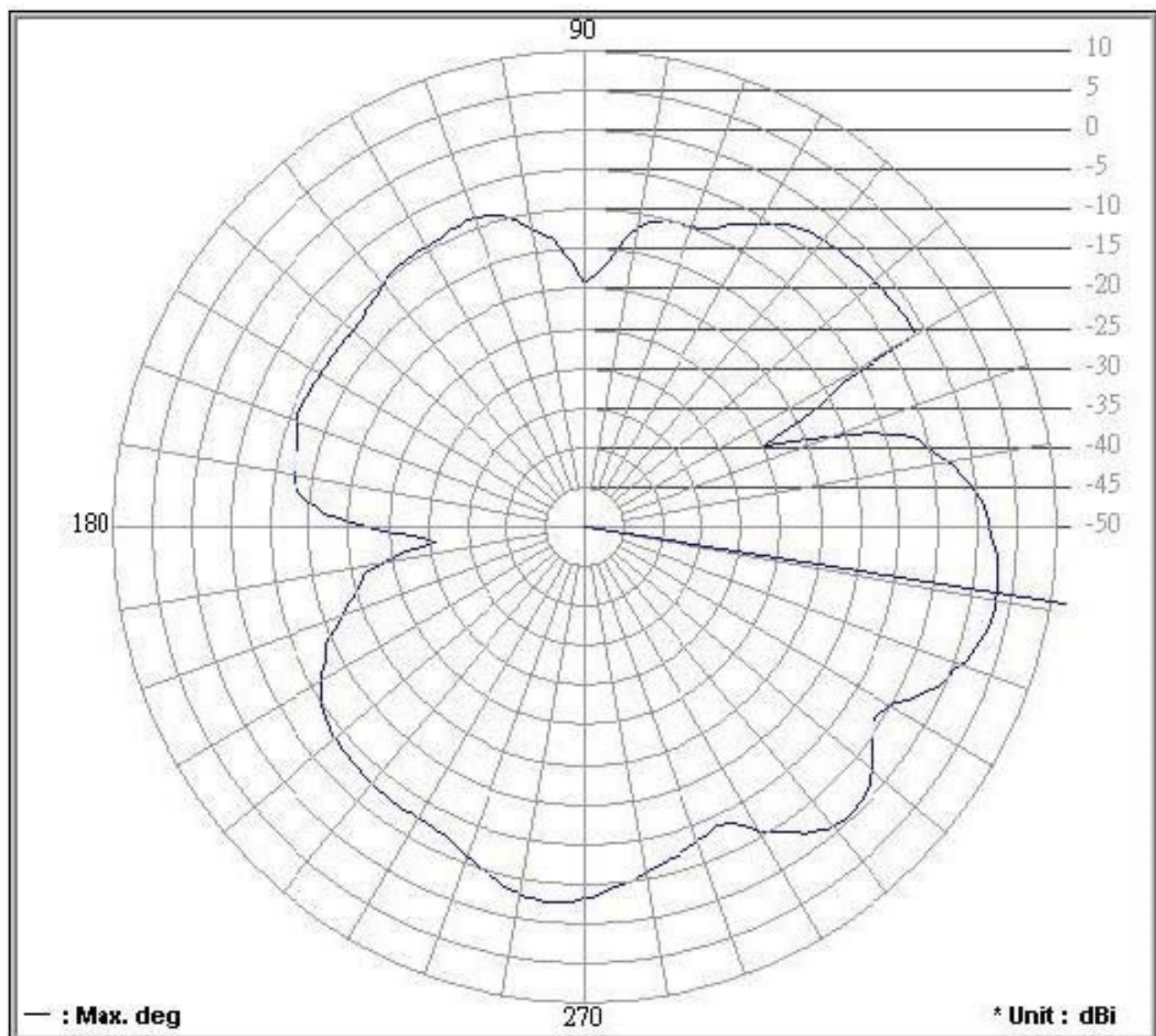
Date: **2018/8/16**

Time: **15:23:51**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



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

Maximum Gain (dB): **-30.92** Maximum Gain (degree): **186**

Minimum Gain (dB): **-35** Minimum Gain (degree): **351**

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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**

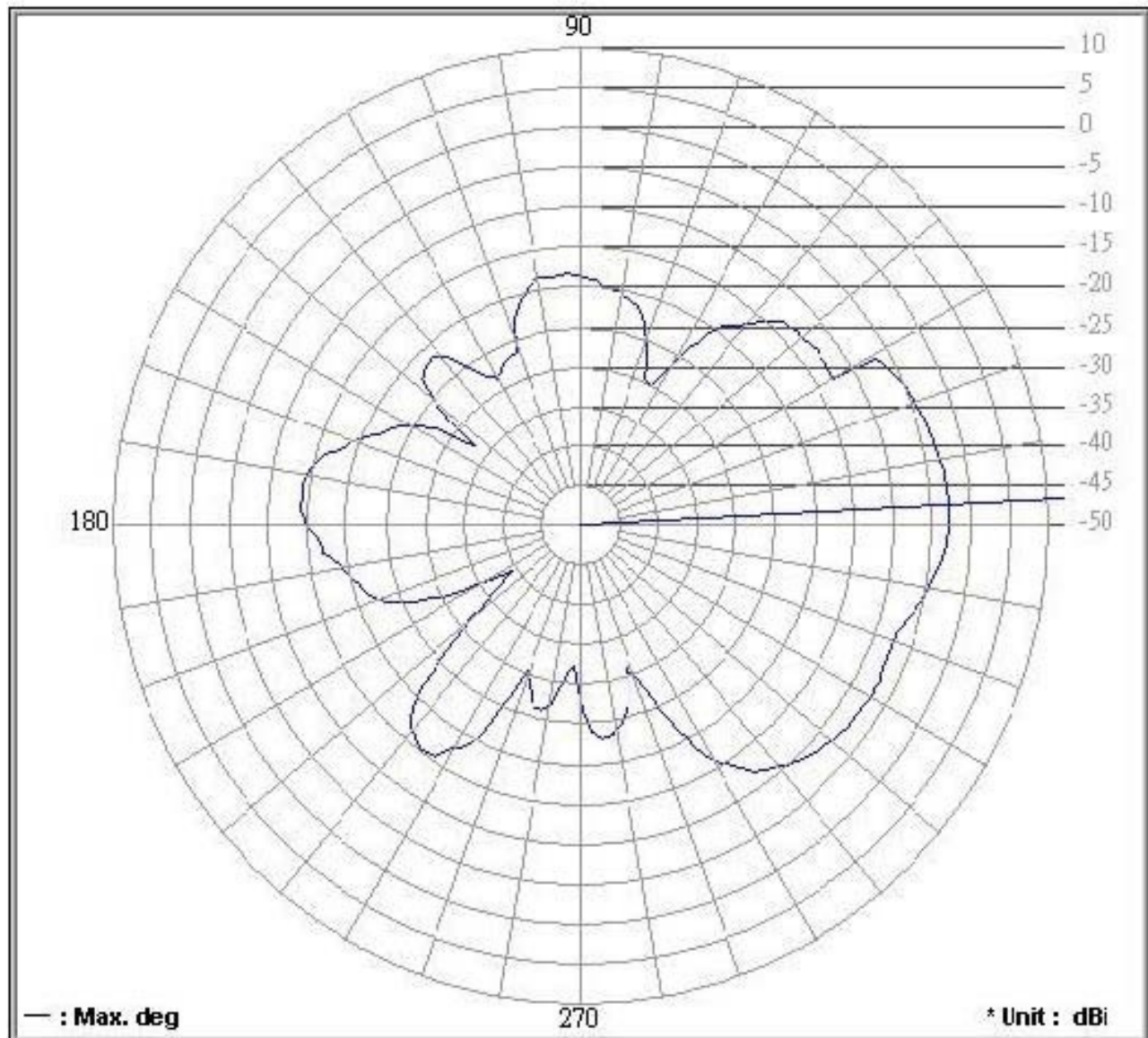
Date: **2018/8/16**

Time: **15:32:20**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz): **2441.65**

Antenna Polarity: **Vertical**

Average Gain (dB): **-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**

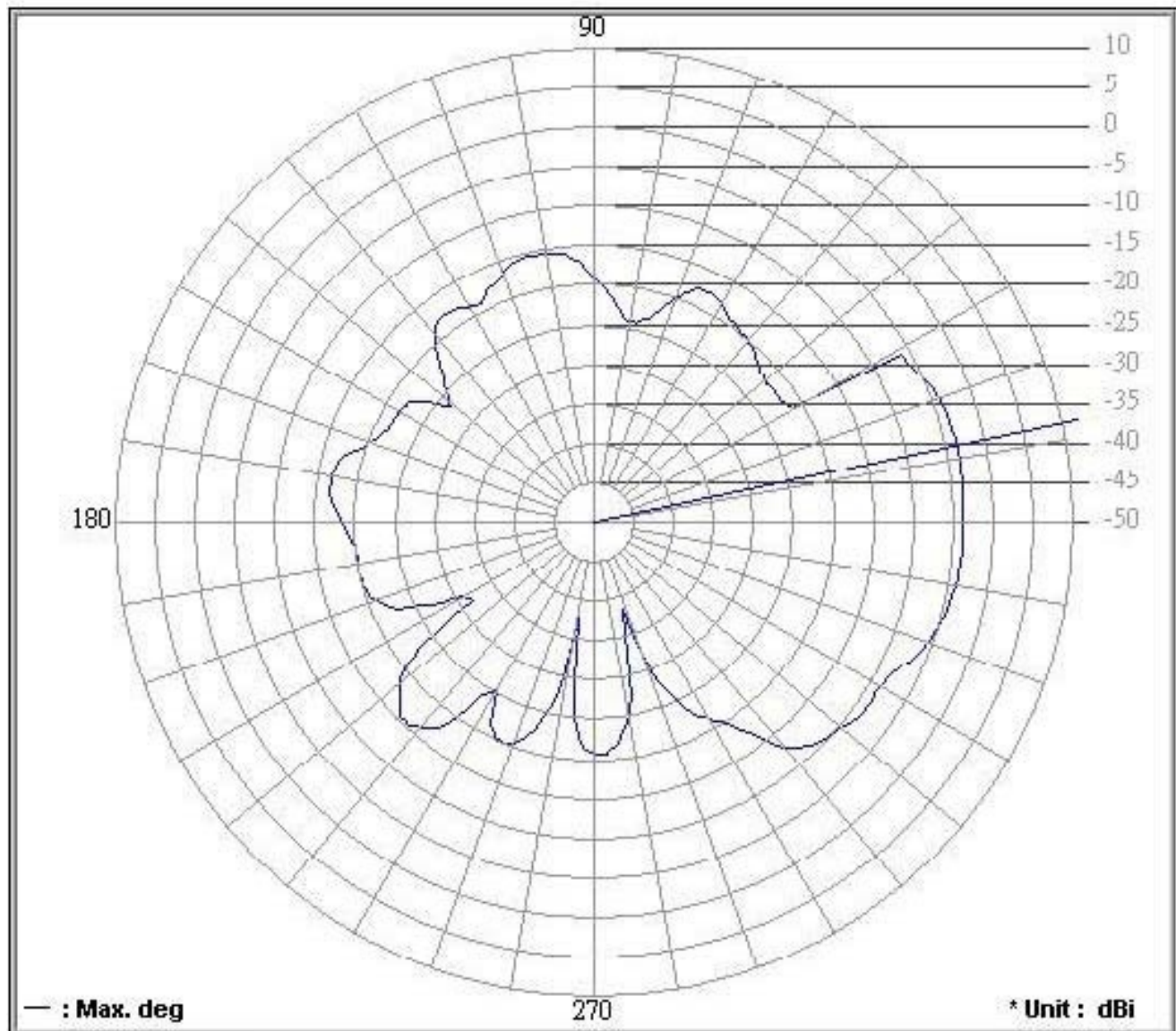
Date: **2018/8/16**

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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Brand / Model : IBM 2.4GHz

Remark : E1

Tested by : SHELLY

EUT description :

Location: **RF Chamber3**

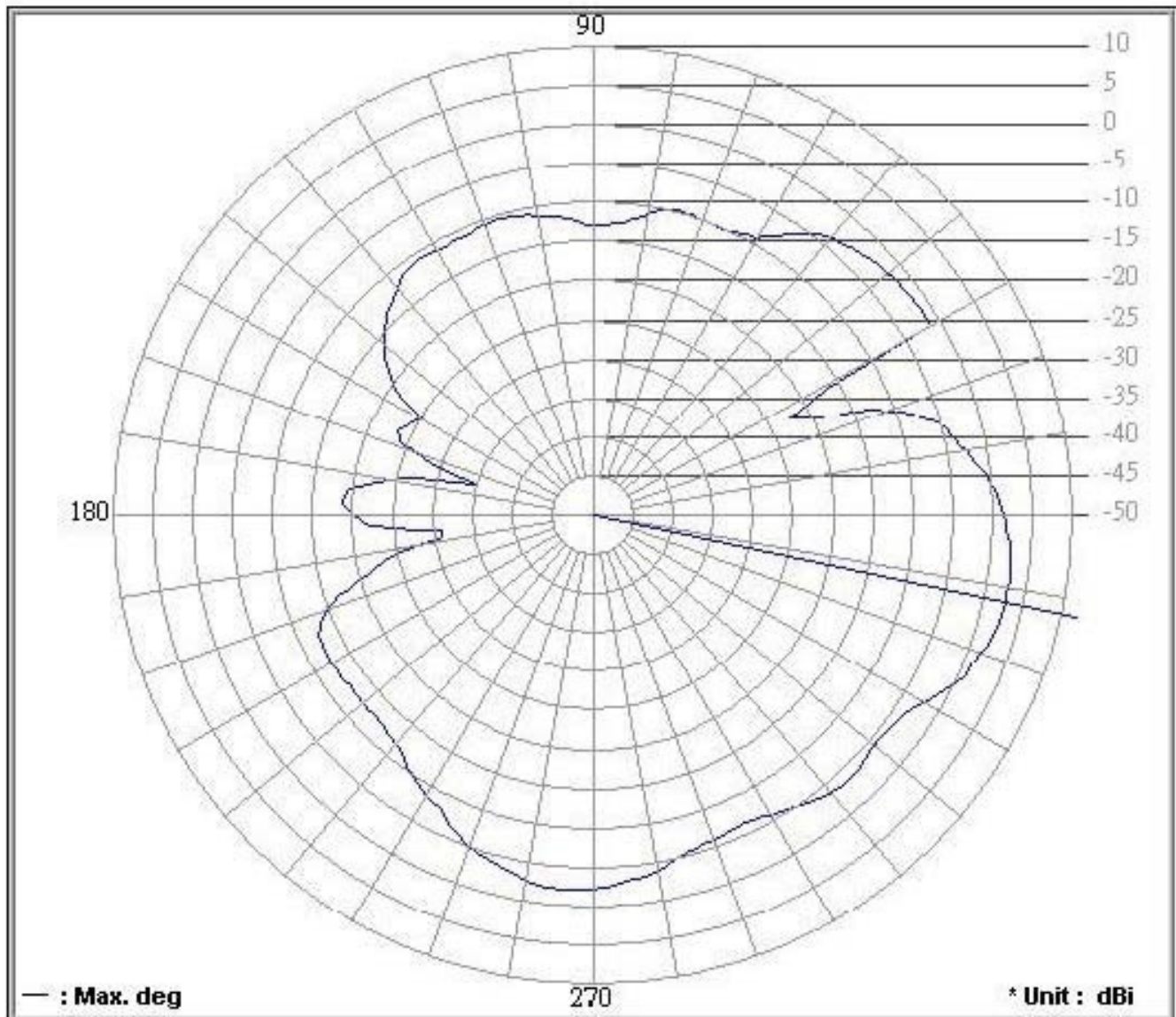
Date: **2018/8/16**

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