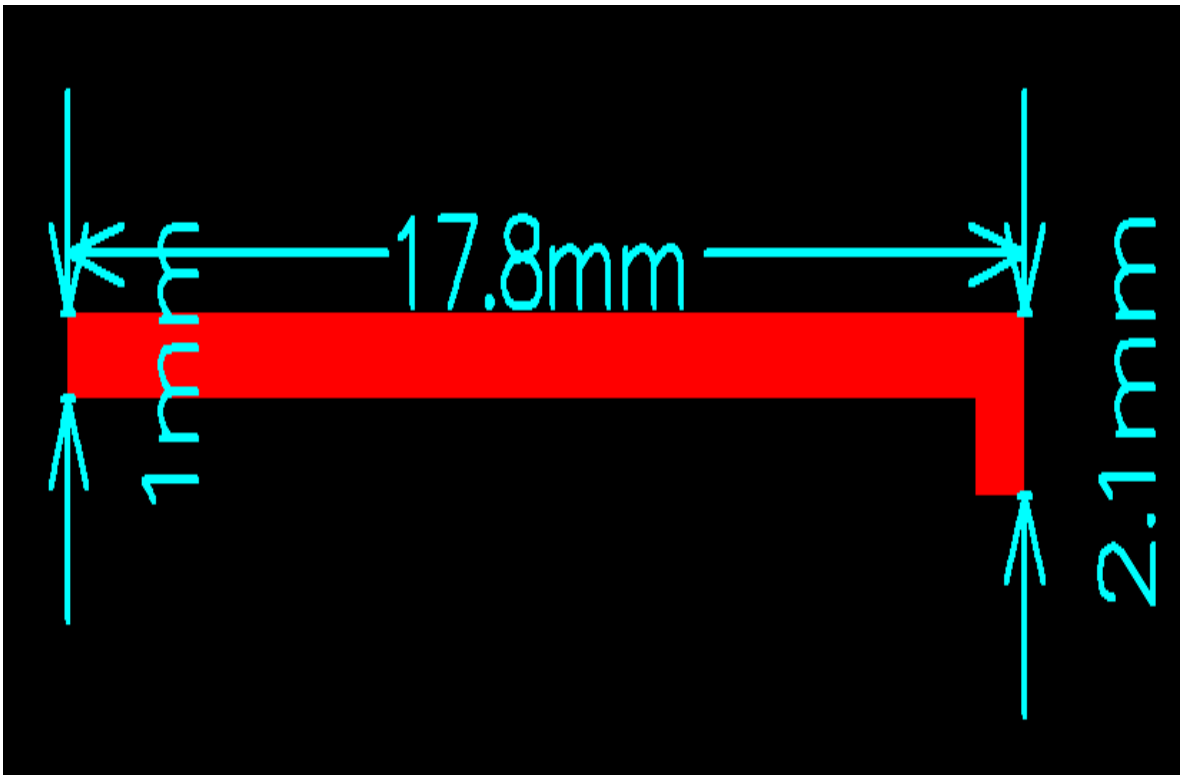
Antenna Specification

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	17.8 mm	

Antenna Photo & Length



1.Main antenna : 2403.65 MHz
1.1 Horizontal

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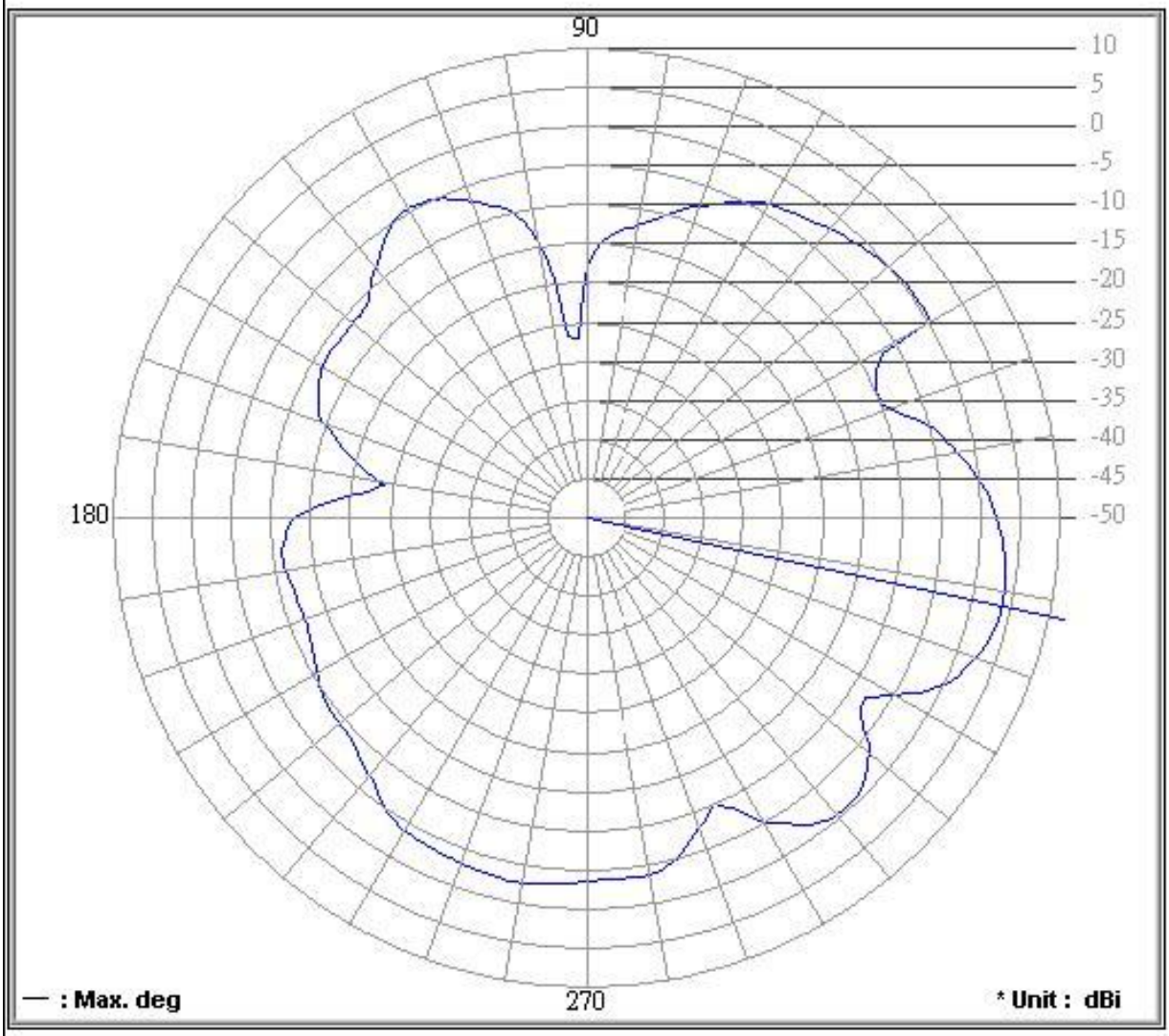
Hsinchu Lab: 81-1 Lu Liaokeng, 9th Lin, Wufeng Town, Chiungli, Hsinchu, Taiwan, R.O.C. Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description :

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:20:43**

Temperatuer (℃): **25** Humidity (%): **75** Approved by:



Frequency (MHz) : **2403. 65** Antenna Polarity : **Horizontal** Average Gain (dB) : **-3.64**

Maximum Gain (dB) : Maximum Gain (degree) : **348**

Minimum Gain (dB) : **-27.08** Minimum Gain (degree) : **93**

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1.2 Vertical

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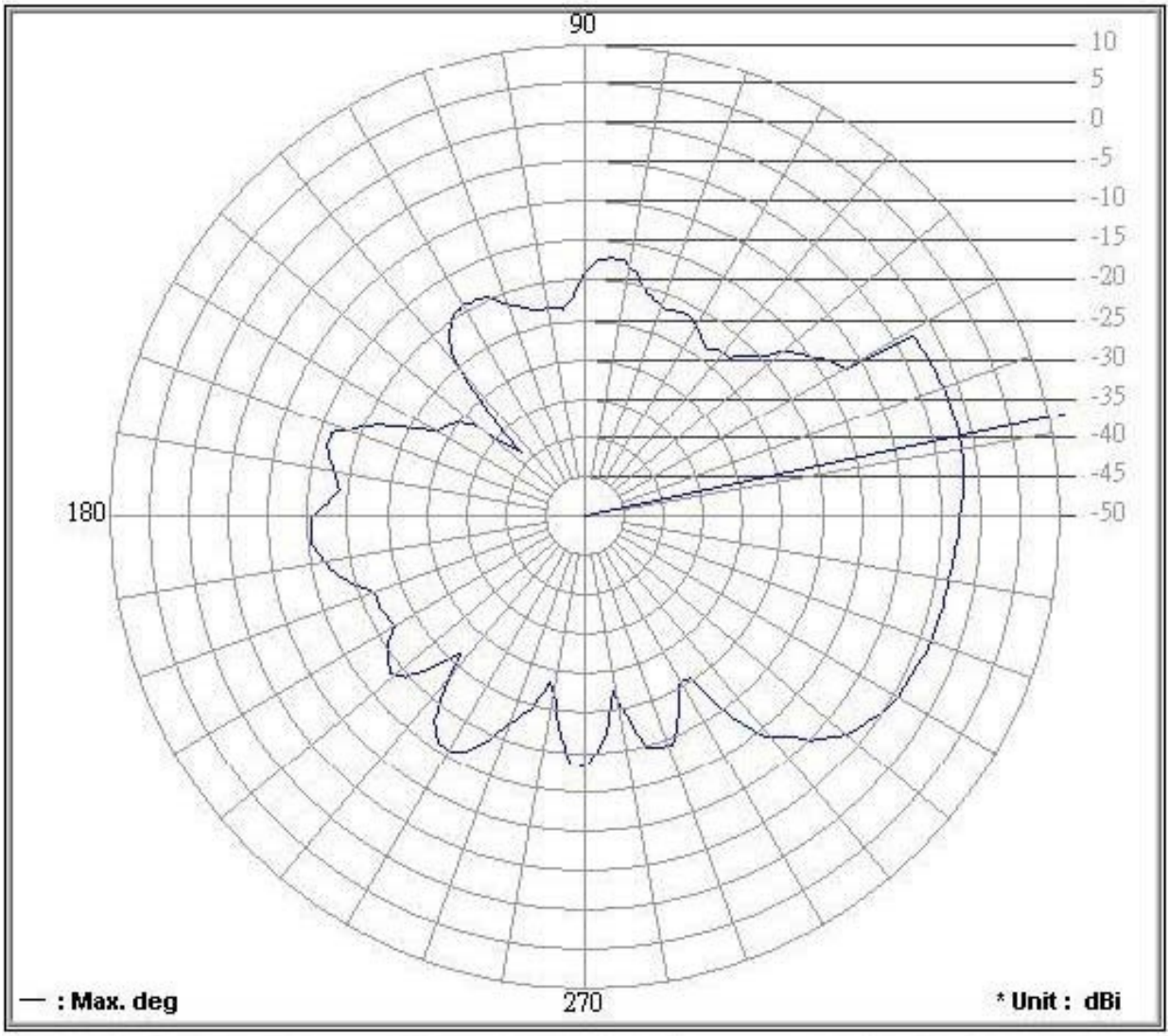
Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description :

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:34:49**

Temperatuer (℃): **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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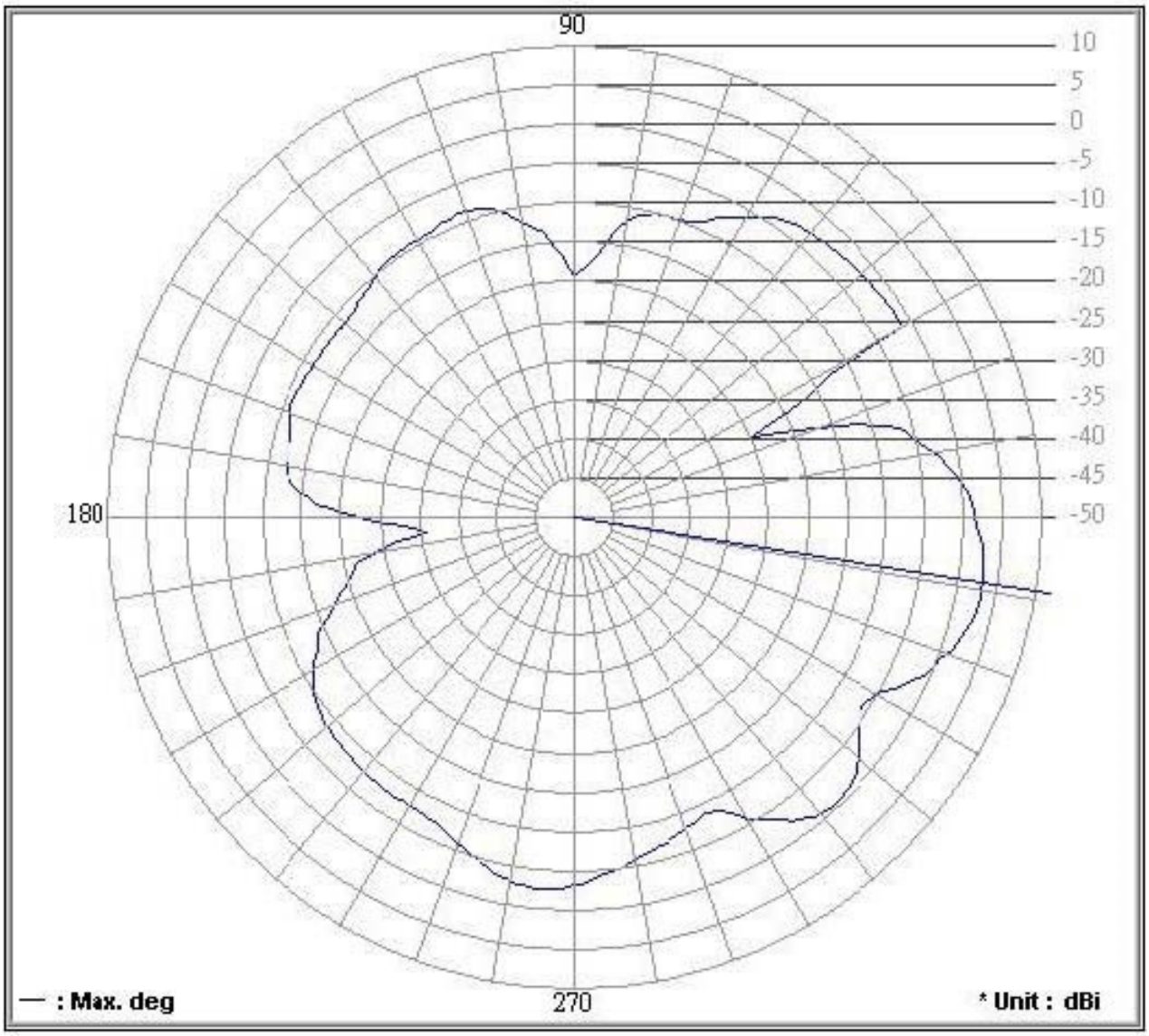
Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description :

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:23:51**

Temperature (℃): **25** Humidity (%): **75** Approved by:



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

Maximum Gain (dB) : Maximum Gain (degree) : **351**

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

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2.2 Vertical

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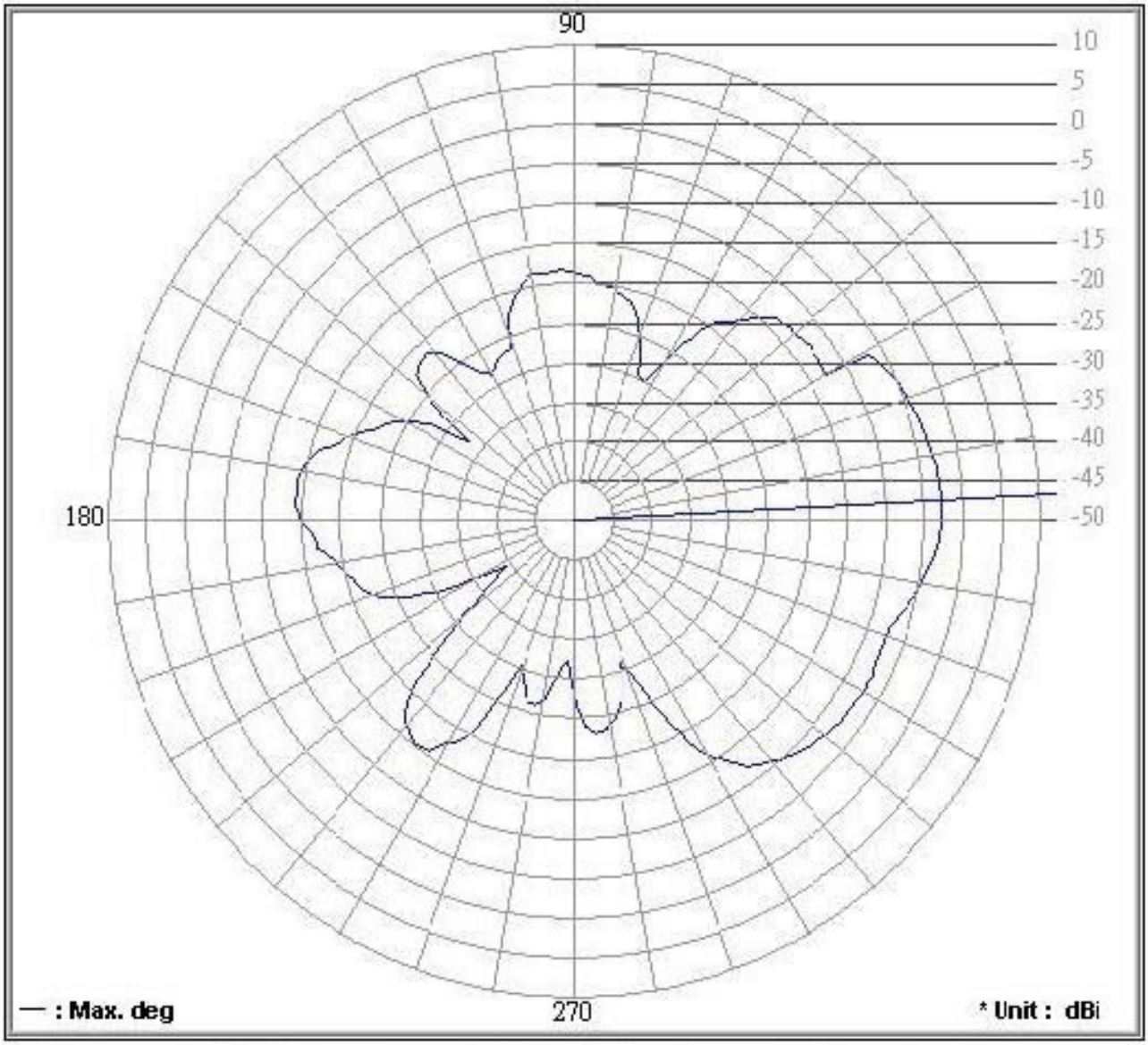
Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description :

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:32:20**

Temperatuer (℃): **25** Humidity (%): **75** Approved by:



Frecuency (MHz) : **2441.65** Antenna Polarty : **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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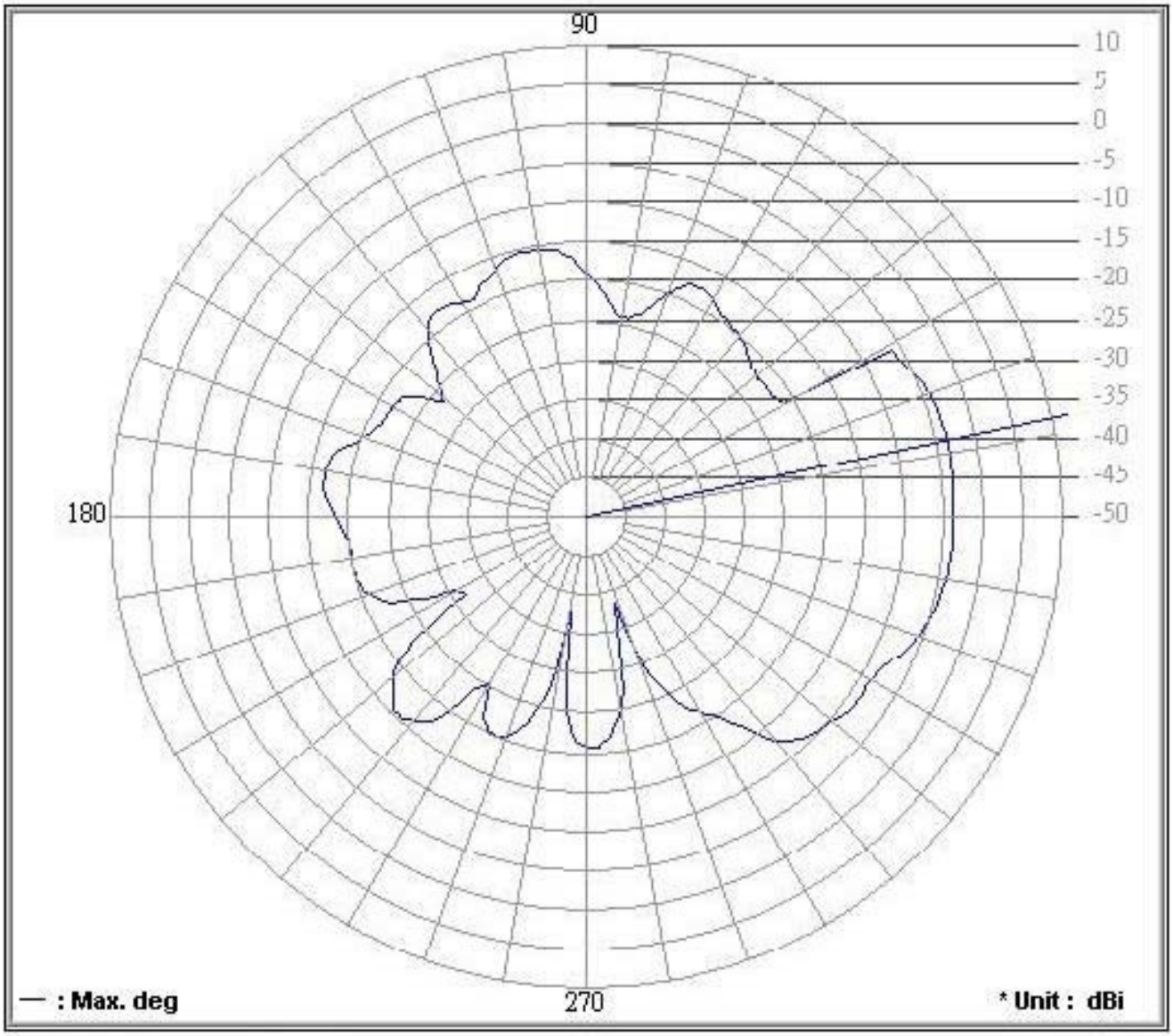
Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description .

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:29:55**

Temperatuer (℃): **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**

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3.2 Vertical

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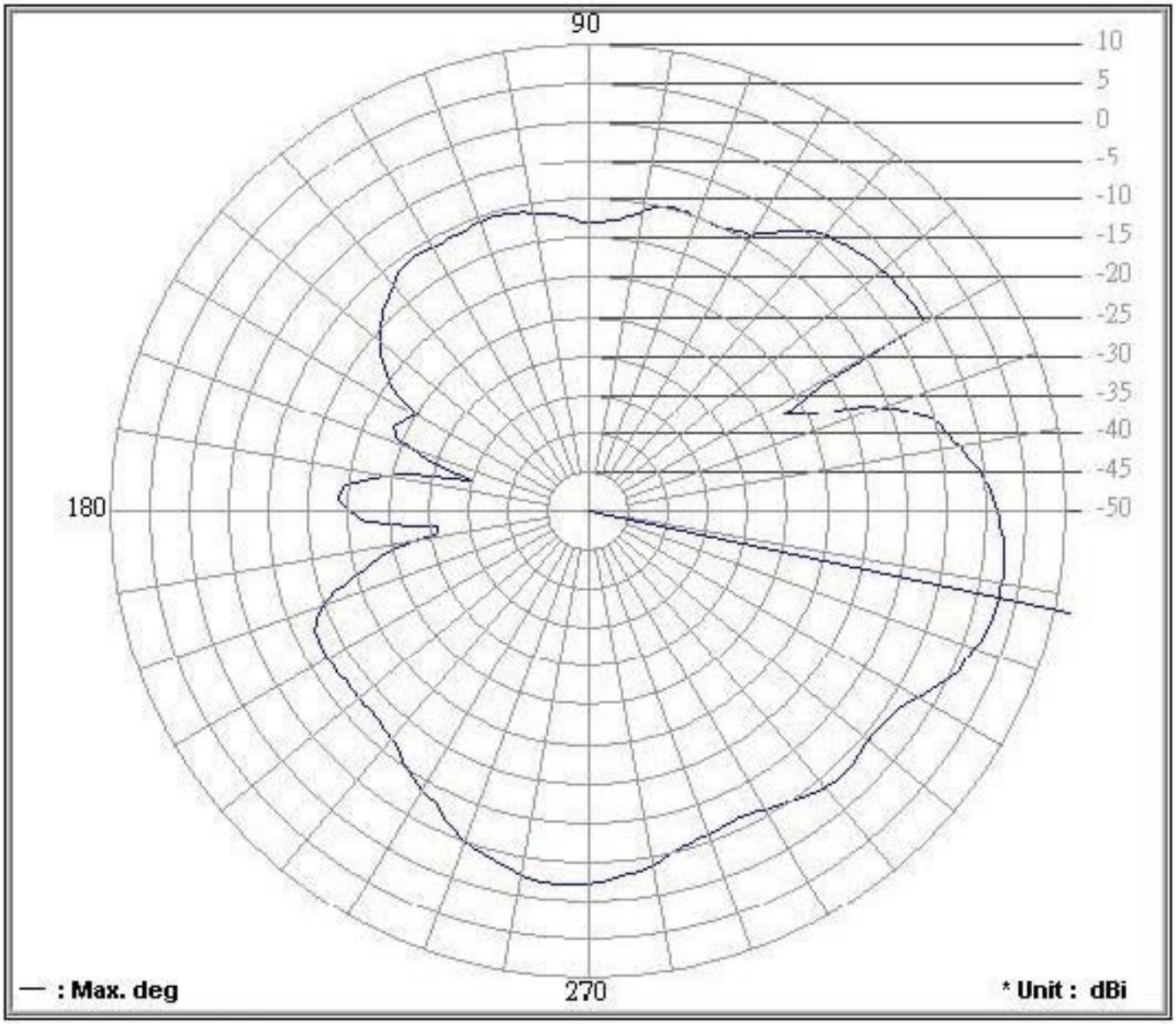
Brand / Model : IBM 2.4GHz
Remark : E1
Tested by : SHELLY
EUT description :

Location: **RF Chamber3** Date: **2018/8/16** Time: **15:26:19**

Temperatuer (℃): **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