

WIFI PCB Substrate Antenna (SZ002)

1. Explanation of Part Number

<u>H</u>	<u>2</u>	<u>B</u>	<u>1</u>	<u>B</u>	<u>C</u>	<u>1</u>	<u>A</u>	<u>1</u>	<u>B</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>
		(1)		(2)		(3)	(4)		(5)		(6)		



Product Code:

(1) Product Categories:

B1: PCB Substrate Antenna

(2) Application:

B: WiFi

(3) Dimensions:

C1: 28x7.6x0.6(mm)

(4) Material:

A: Fr-4

(5) Working Frequencies:

1B: 2400~2500MHz/linear polarization

(6) Antenna Series:

02: Serial number

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm

Scale : Unit : mm

Drawn By : Gilespi Checked By : Jason

Designed By : Joe Approved By : Jaixing



Unictron Technologies Corporation
Website: www.unictron.com

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2. Features

- *Stable and reliable in performances
- *RoHS compliance
- *Low cost

3. Applications

- *WIFI / Bluetooth systems

4. Description

*Unictron's WiFi antenna is specially designed for Wi-Fi applications. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Electrical Specifications

WIFI:

Characteristics	Specifications			Unit
Outline Dimensions	28 x 7.6			mm
Frequency	2400~2500			MHz
Impedance	50			Ω
Polarization	Linear Polarization			
Return Loss Table	Return Loss			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
dB	-16.98	-29.81	17.34	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.32	1.08	1.29	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2485MHz	2500MHz
Peak Gain(dBi)	0.56	1.21	0.15	-0.28

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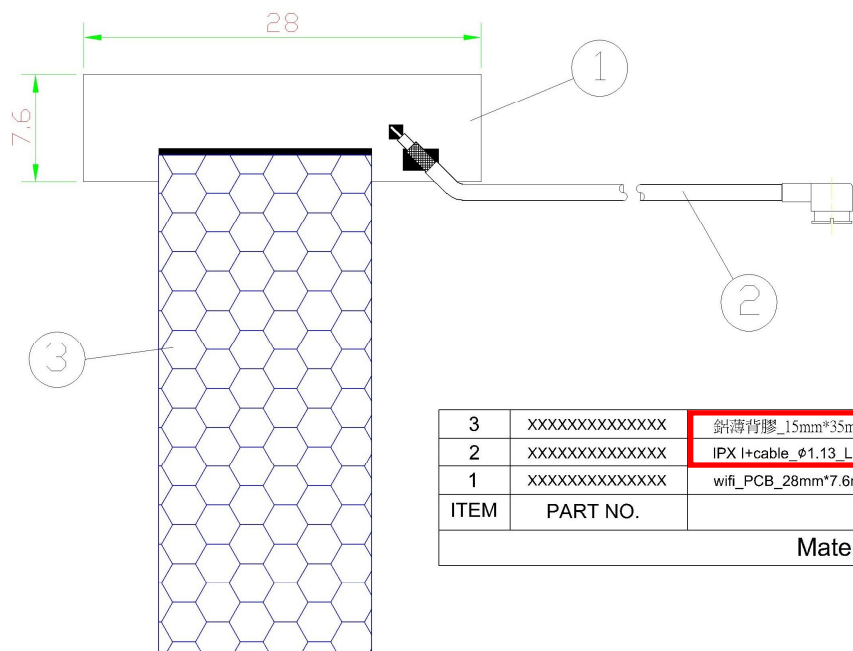
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6. Dimensions (unit: mm)



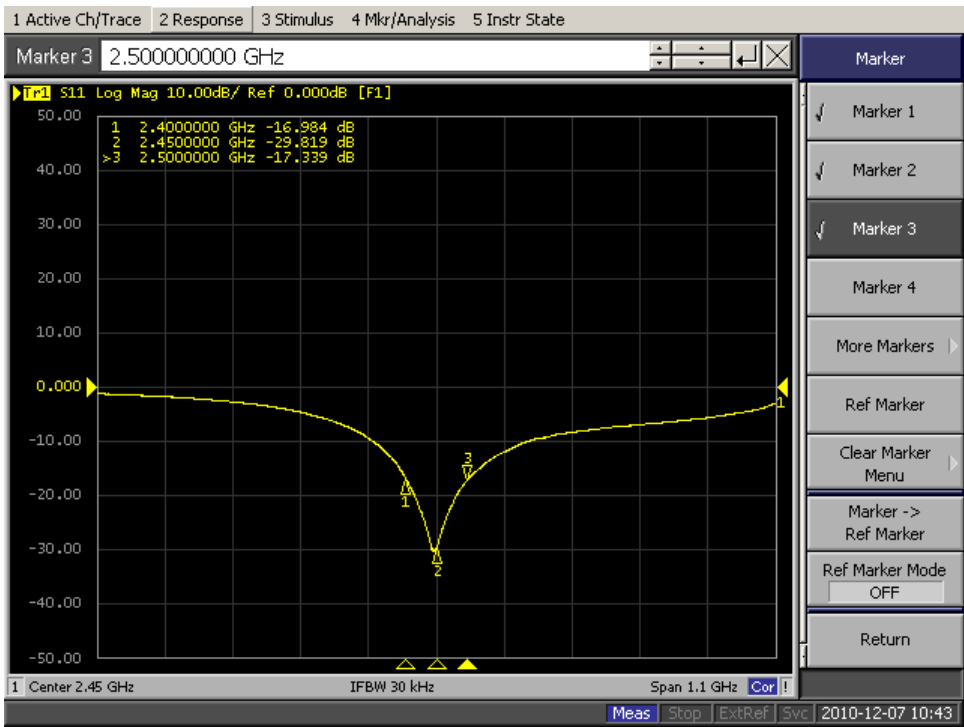
3	XXXXXXXXXXXXXX	銅薄背膠_15mm*35mm	1
2	XXXXXXXXXXXXXX	IPX I+cable_φ1.13_L: 85 mm	1
1	XXXXXXXXXXXXXX	wifi_PCB_28mm*7.6mm,T:0.6mm	1
ITEM	PART NO.	Description	Q'ty
Material			

UNIT:mm

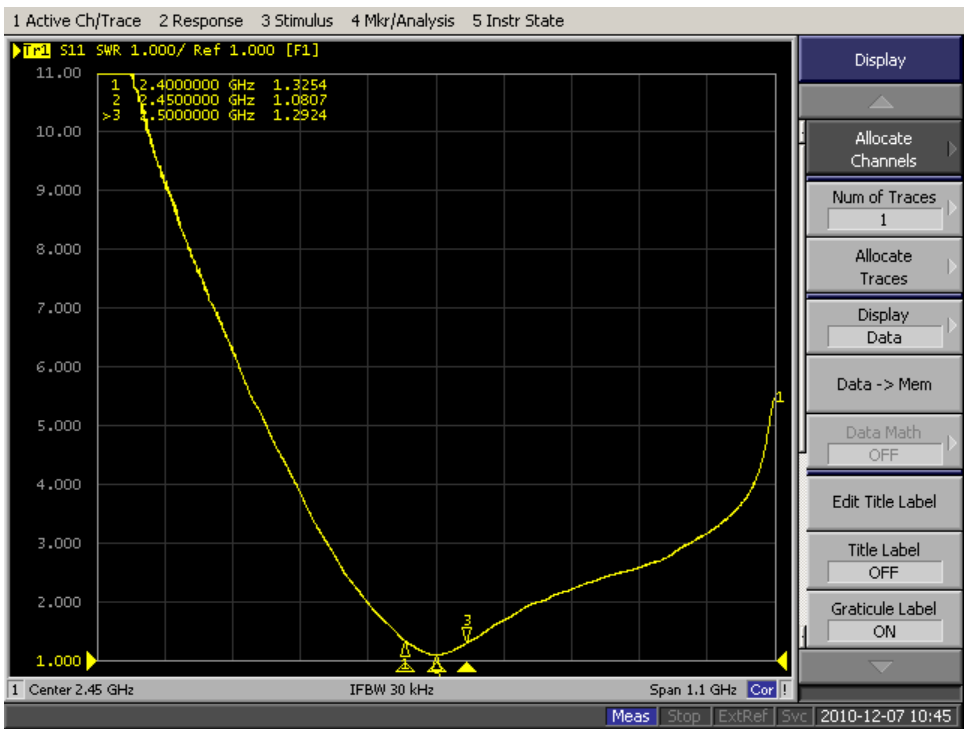
Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		 Unictron Technologies Corporation Website: www.unictron.com	
Scale :	Unit : mm	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION	
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8. Electrical Characteristics

(1) Return Loss



(2) VSWR



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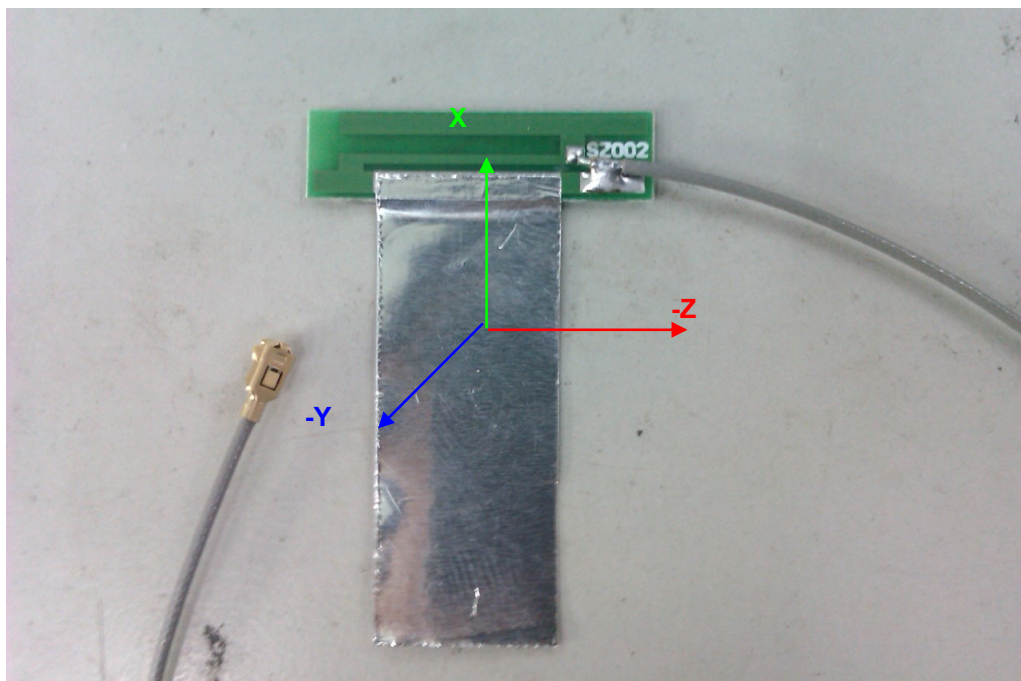
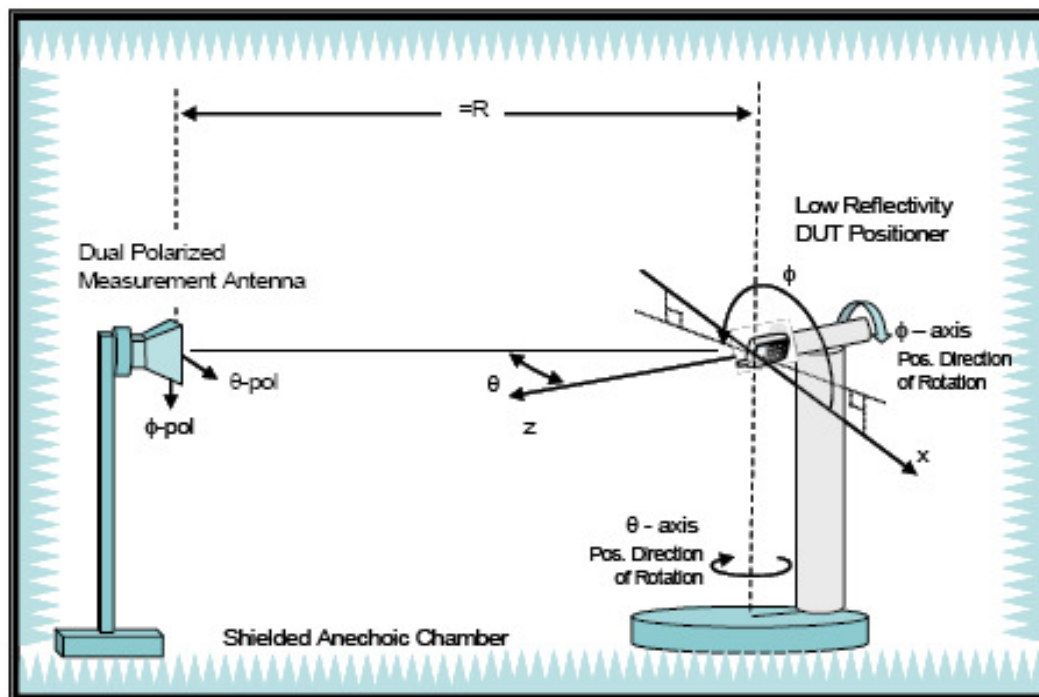
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9. Three D Radiation Pattern



The definition of the measurement face

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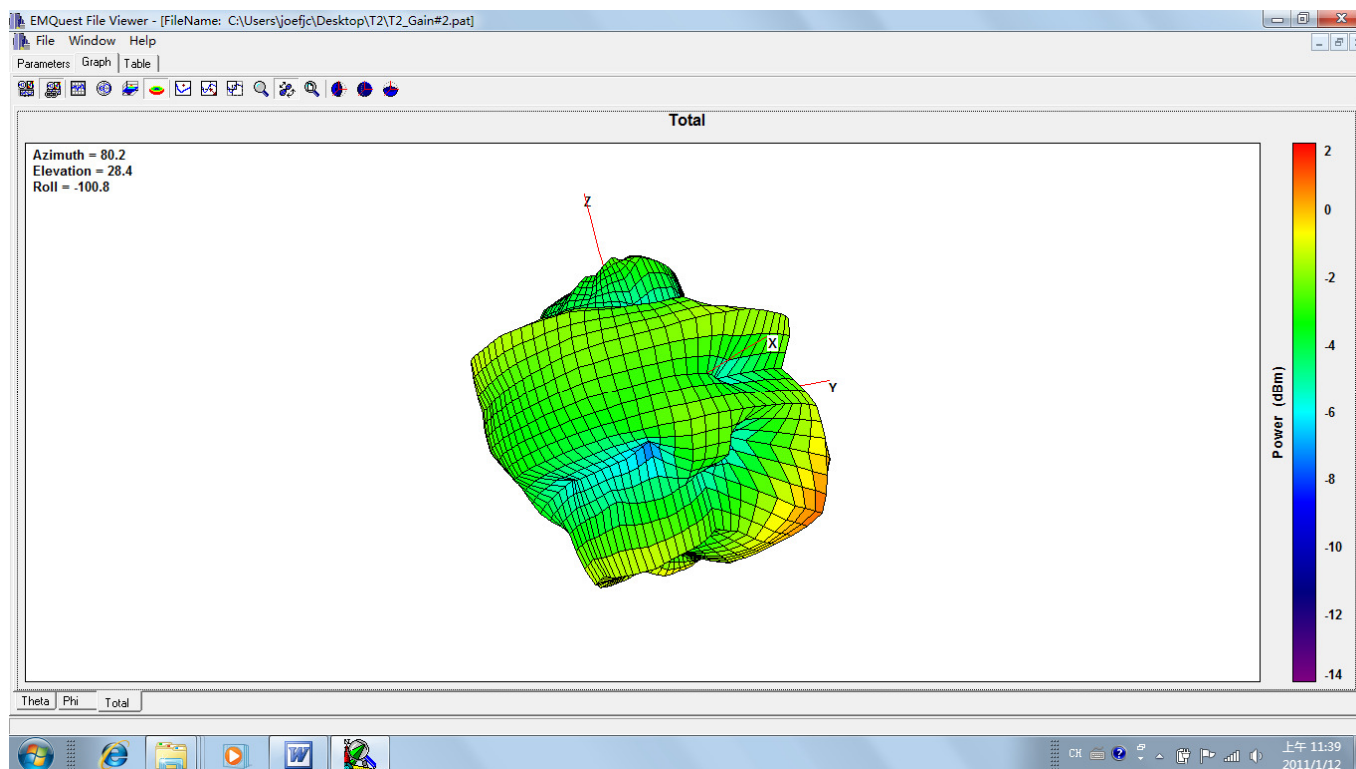
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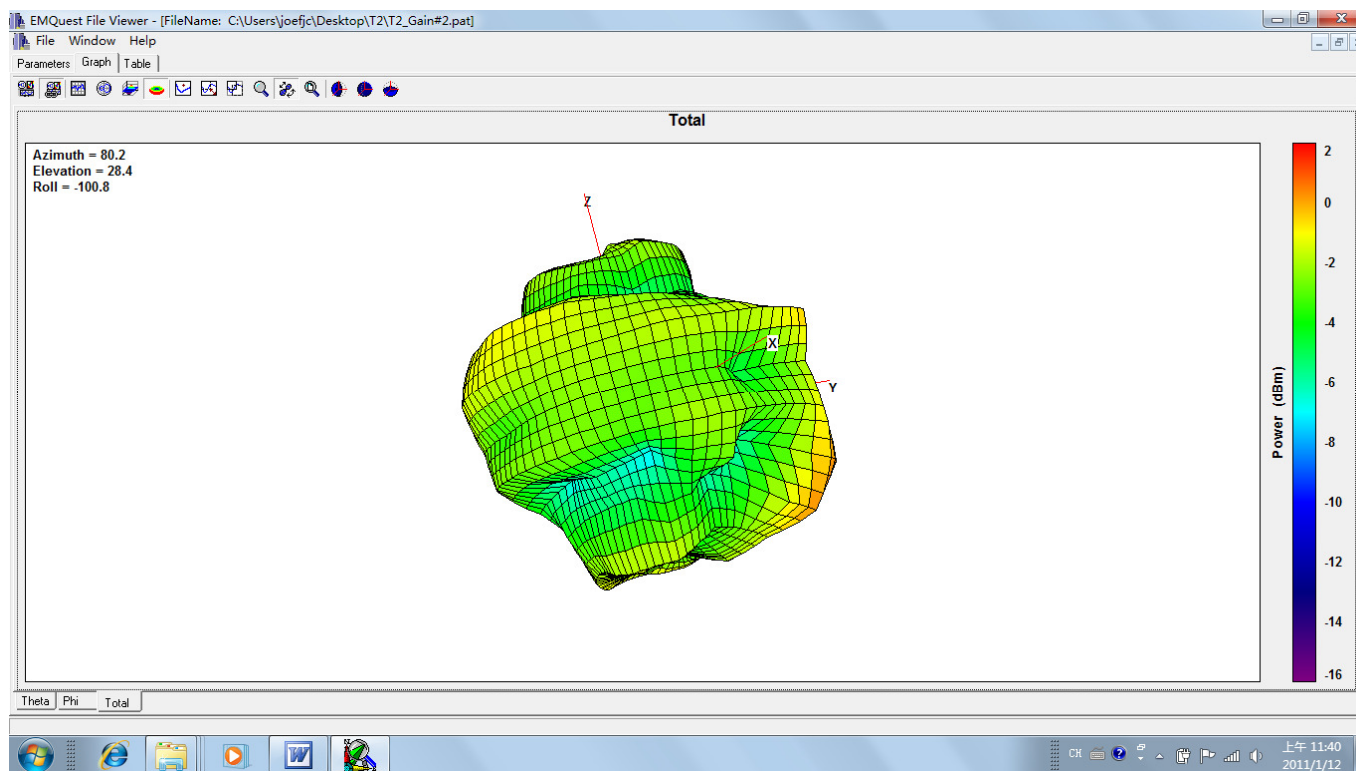
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a. 2400MHz



b. 2450MHz



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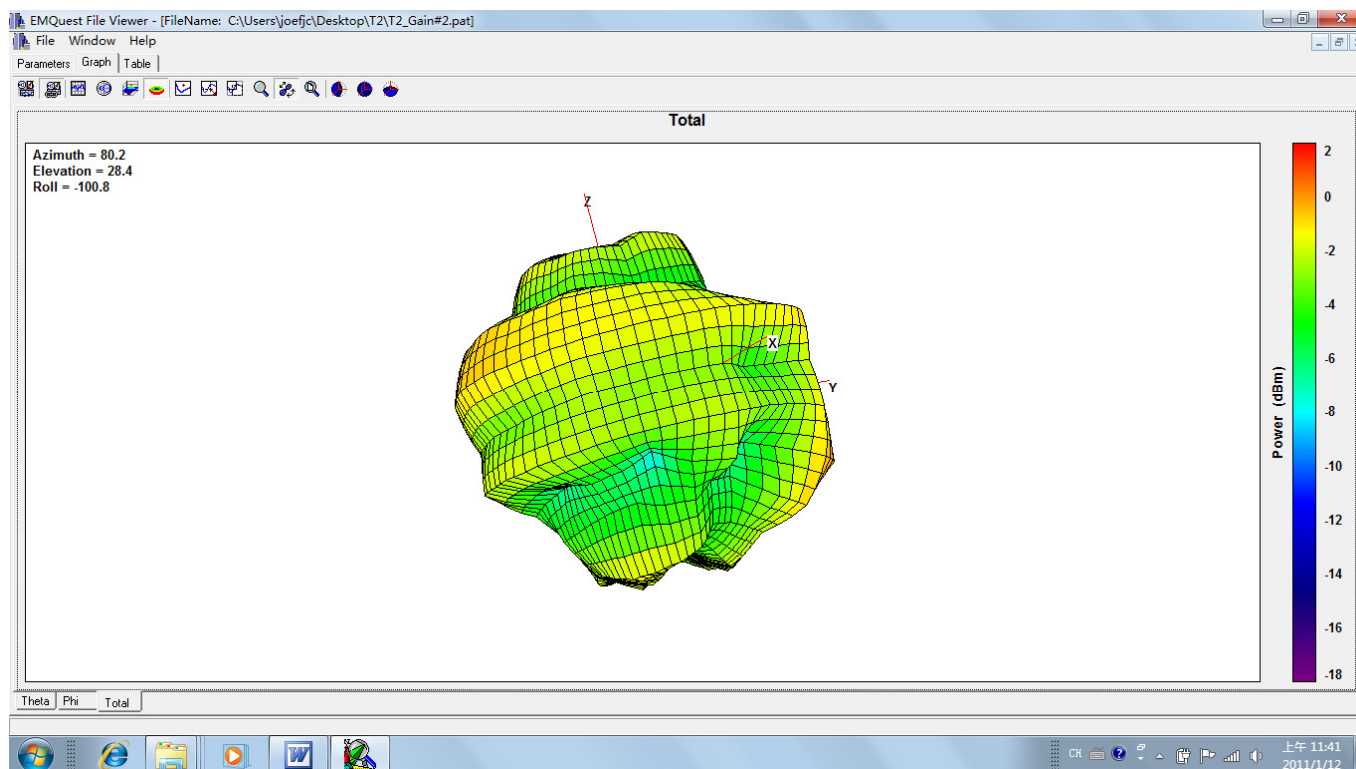
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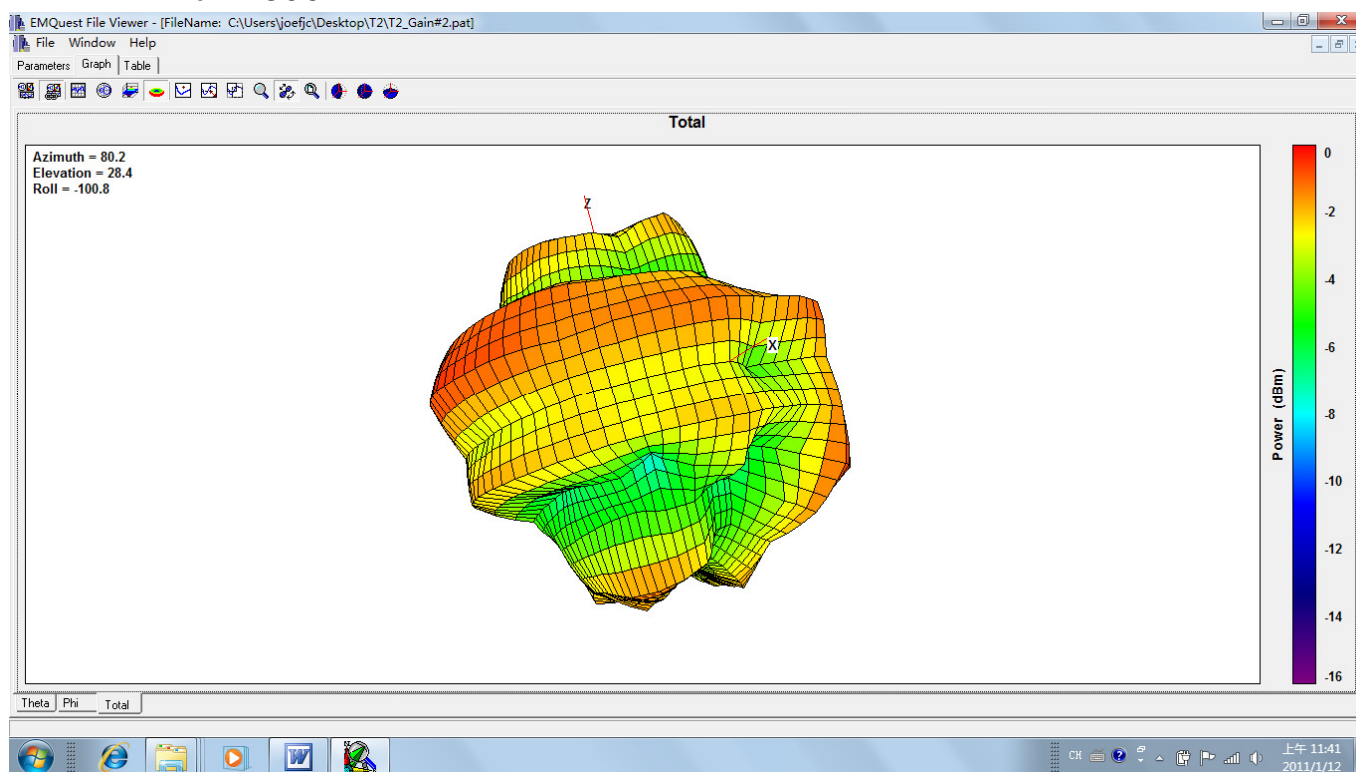
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c. 2485MHz



d. 2500MHz



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