

## SPECIFICATION

Product : WLAN EMBEDDED ANTENNA

Descriptions : 2.4~2.5/4.9~5.8GHz+PCB+TISSUE TAPE  
+OD1.13 CABLE+IPEX

## SPECIFICATION

### ELECTICAL PROPERTIES

FREQUENCY RANGE ----- 2.4~2.5/4.9~5.8 GHz

VSWR-----  $\leq 2.0$

IMPEDANCE-----  $50\Omega$

GAIN----- 2dBi

### PHYSICAL PROPERTIES

WIRE----- OD1.13 CABLE BLACK

CABLE LENGTH----- 350mm

CONNECTOR----- IPEX

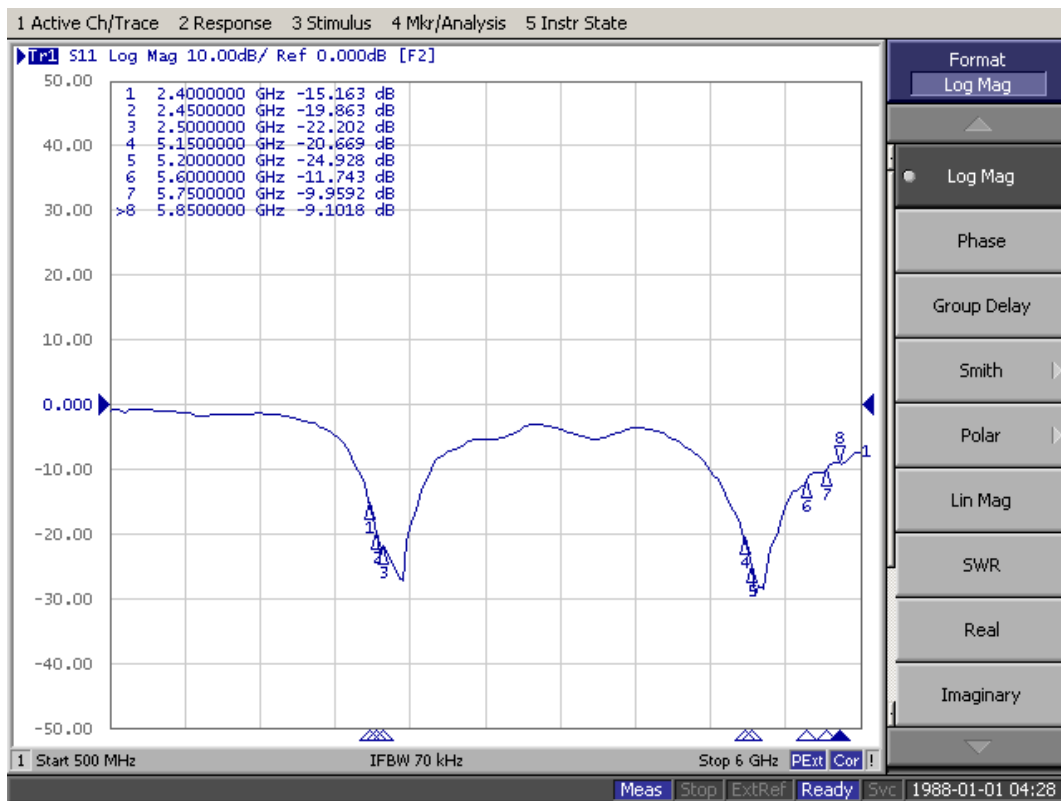
PCB----- FR4

TISSUE TAPE----- 3M9448A

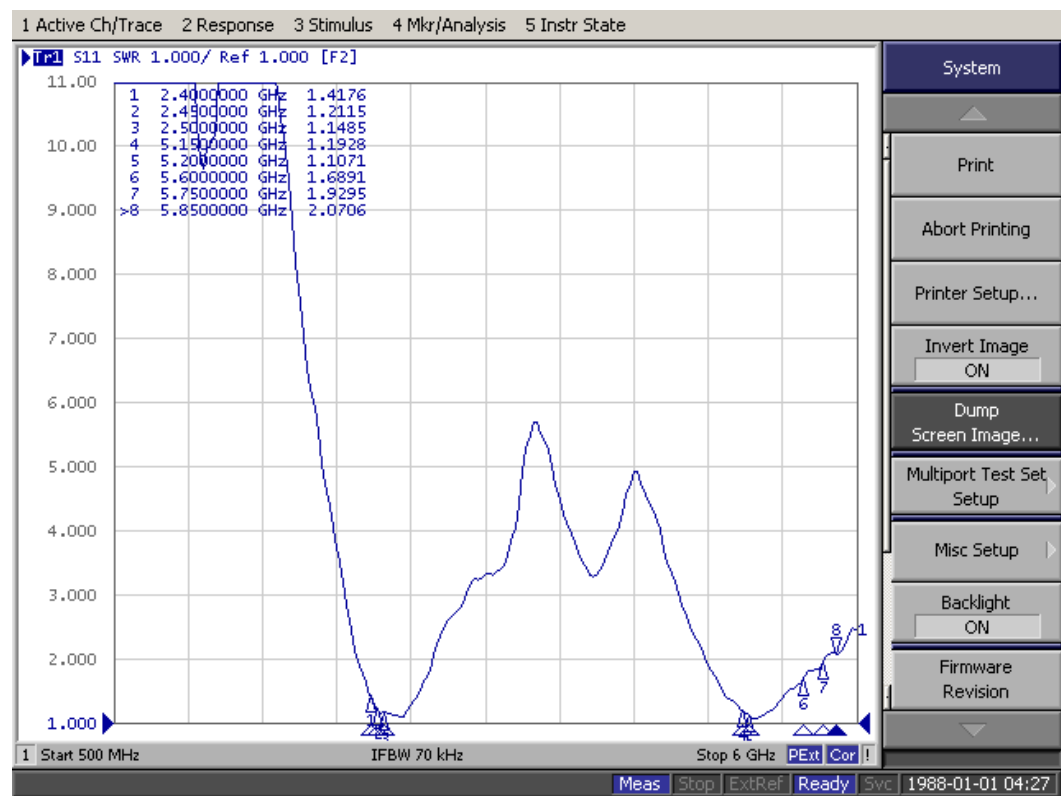
OPRERATING TEMPERATURE-----  $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

STORAGE TEMPERATURE-----  $-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$

## RETURN LOSS



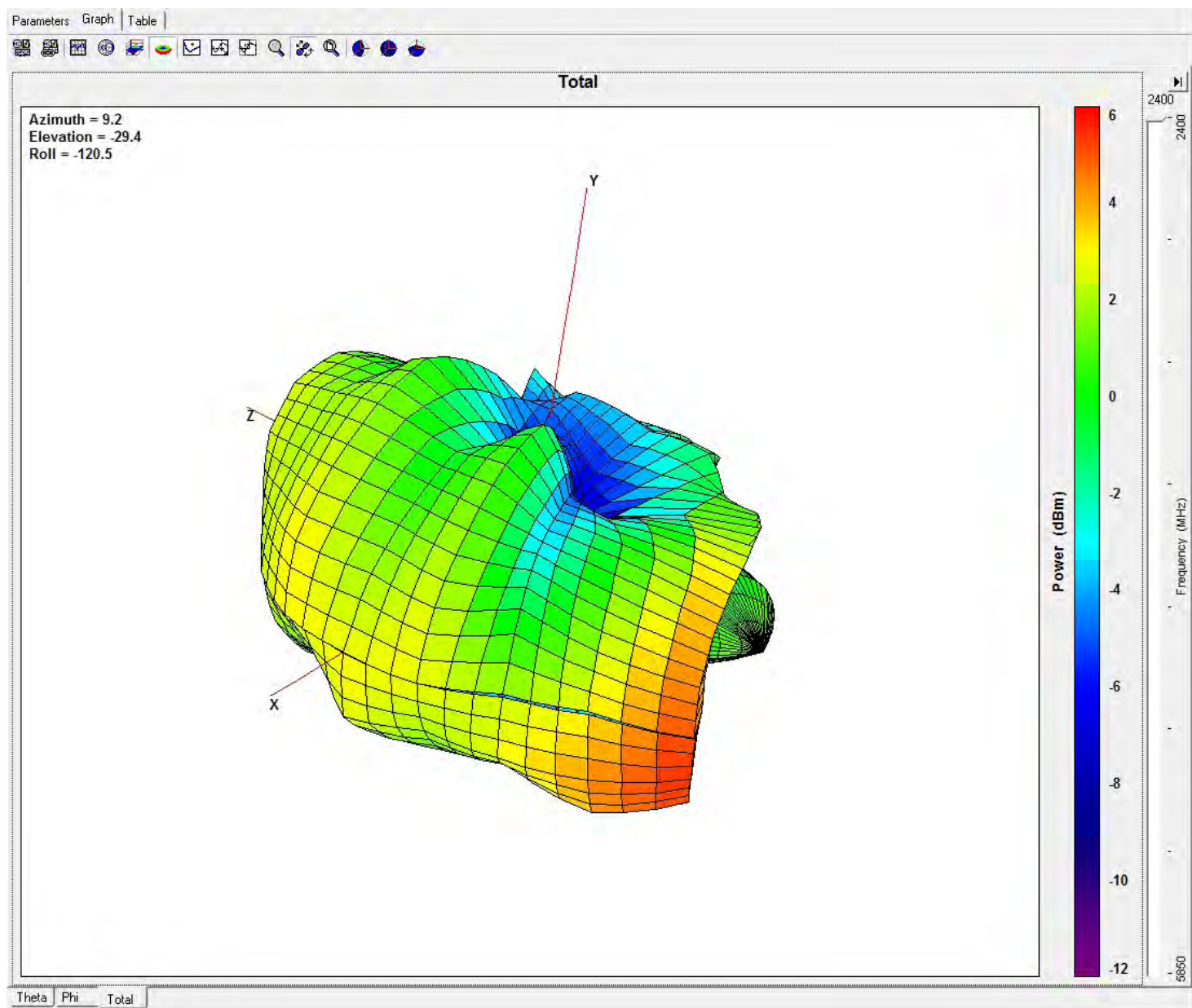
## VSWR



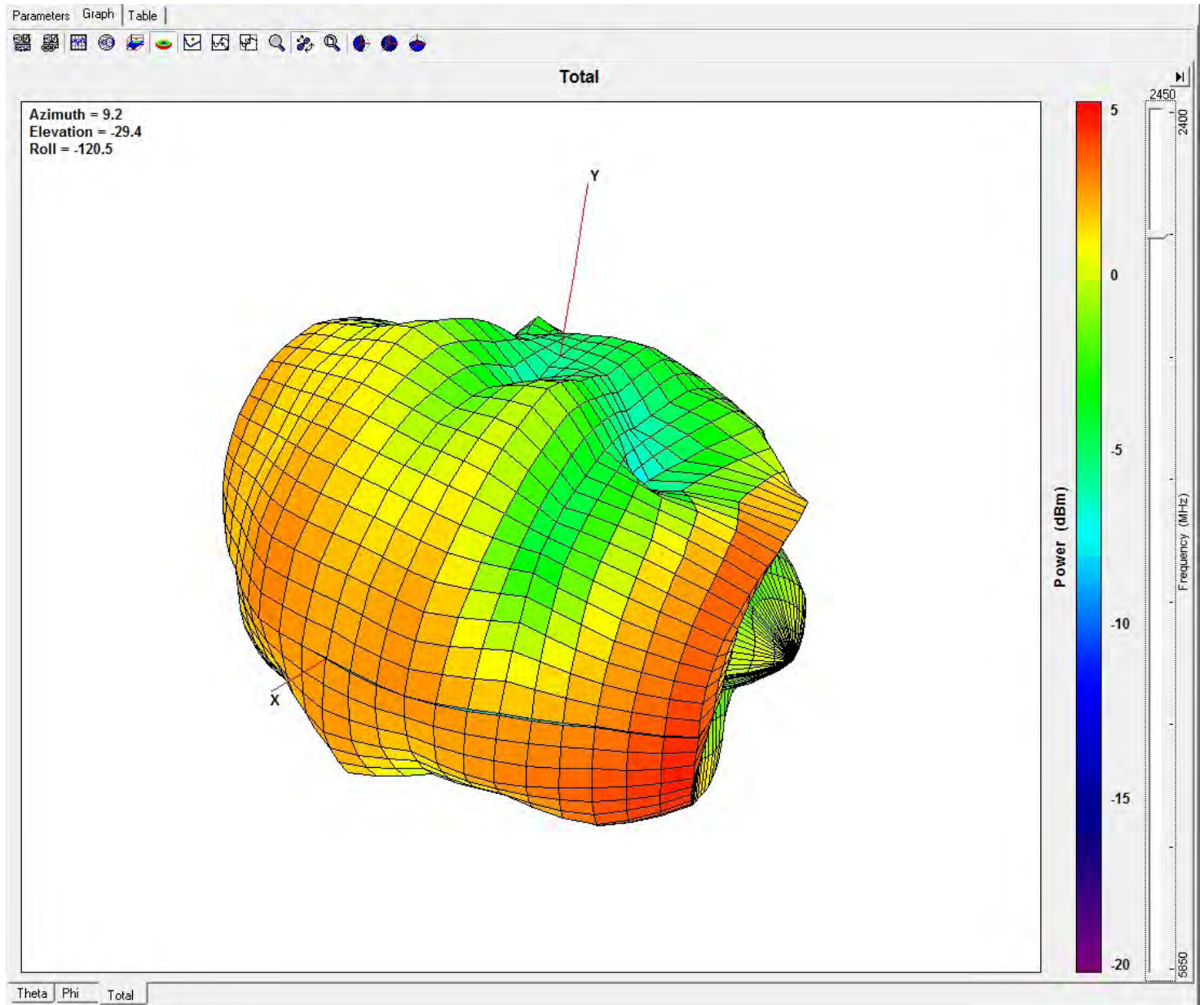
## Chamber

|                                               |           |           |          |          |          |          |          |         |
|-----------------------------------------------|-----------|-----------|----------|----------|----------|----------|----------|---------|
| Test Date                                     | 2014/5/8  |           |          |          |          |          |          |         |
| Trade Name                                    |           |           |          |          |          |          |          |         |
| App.No                                        |           |           |          |          |          |          |          |         |
| Model Name                                    |           |           |          |          |          |          |          |         |
| Test Mode<br>Free Space & Talking<br>Position |           |           |          |          |          |          |          |         |
| Communication System                          |           |           |          |          |          |          |          |         |
| Channel                                       | 2400      | 2450      | 2500     | 5150     | 5450     | 5600     | 5765     | 5850    |
| Note                                          | EM60      |           |          |          |          |          |          |         |
| Ant. Port Input Pwr. (dBm)                    | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0       |
| Tot. Rad. Pwr. (dBm)                          | -0.846971 | -0.848276 | -1.35952 | -2.07574 | -1.70826 | -2.24809 | -3.29951 | -2.7604 |
| Peak EIRP (dBm)                               | 5.17177   | 5.43572   | 4.6558   | 4.07792  | 5.0022   | 4.22291  | 3.6244   | 4.28599 |
| Directivity (dBi)                             | 6.01874   | 6.28399   | 6.01531  | 6.15367  | 6.71046  | 6.471    | 6.92391  | 7.04639 |
| Efficiency (dB)                               | -0.846971 | -0.848276 | -1.35952 | -2.07574 | -1.70826 | -2.24809 | -3.29951 | -2.7604 |
| Efficiency (%)                                | 82.2816   | 82.2569   | 73.1221  | 62.0049  | 67.4798  | 59.5924  | 46.7788  | 52.9614 |

Center freq.(MHz): : 2400

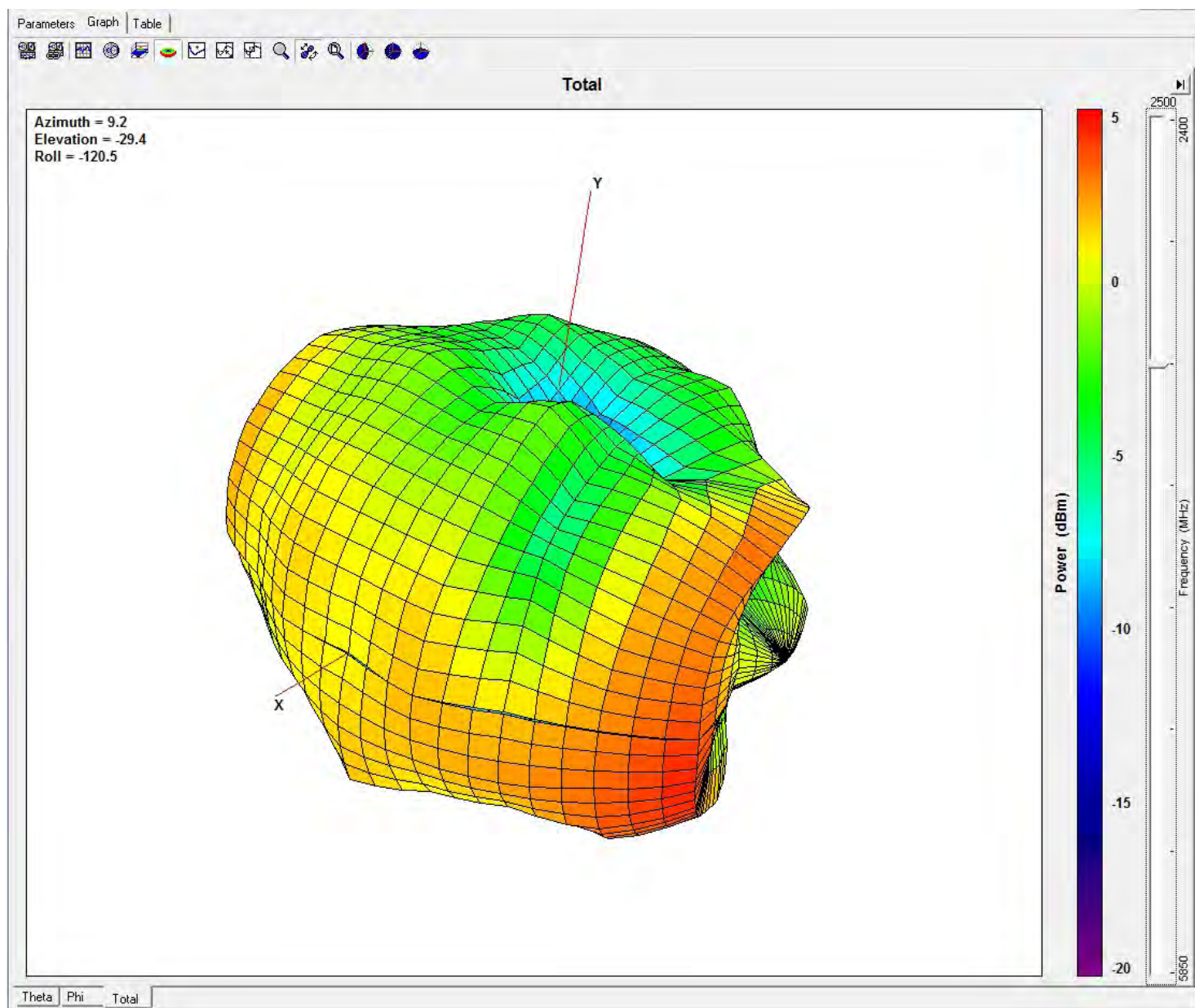


Center freq.(MHz): : 2450

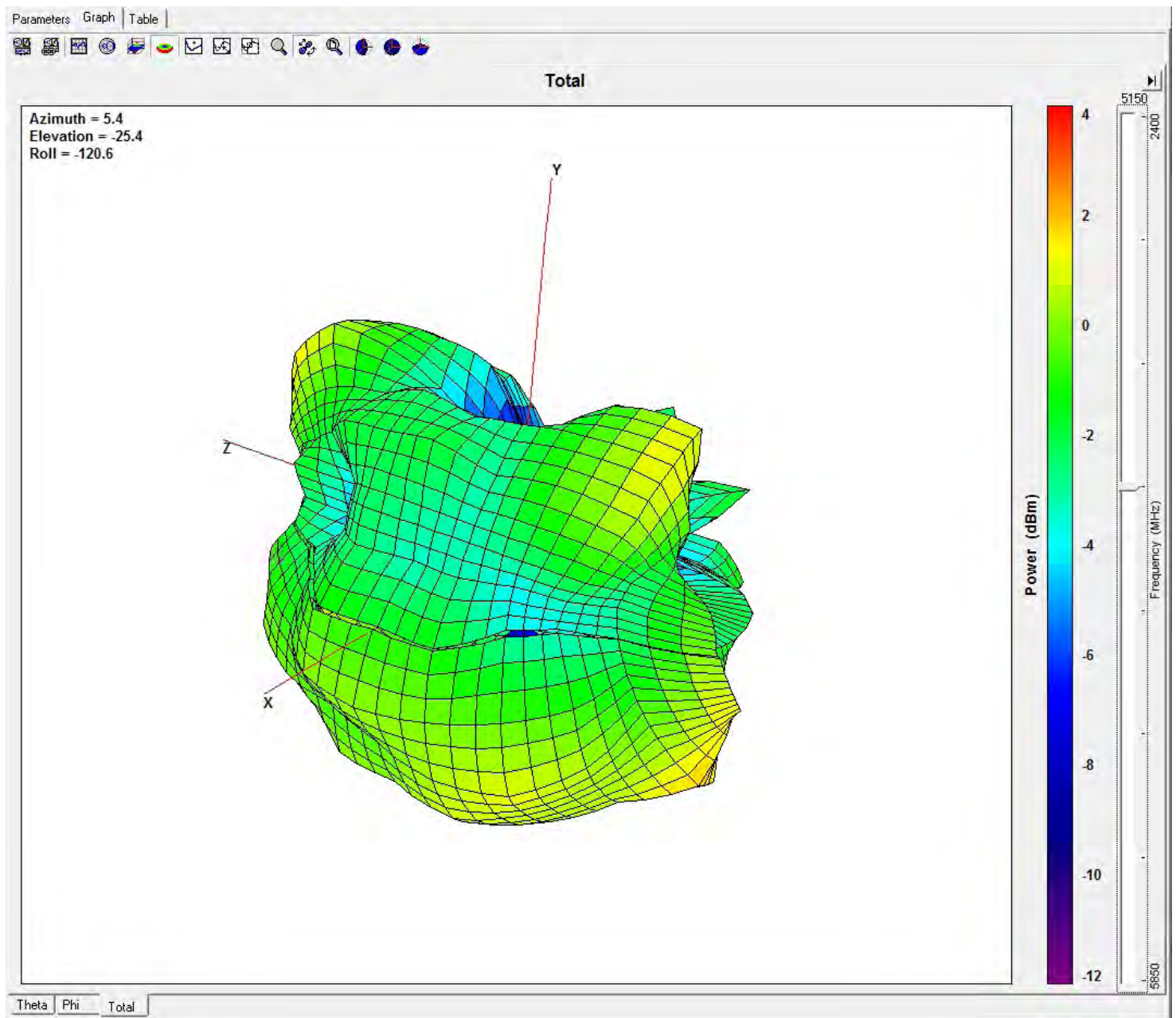




Center freq.(MHz): : 2500

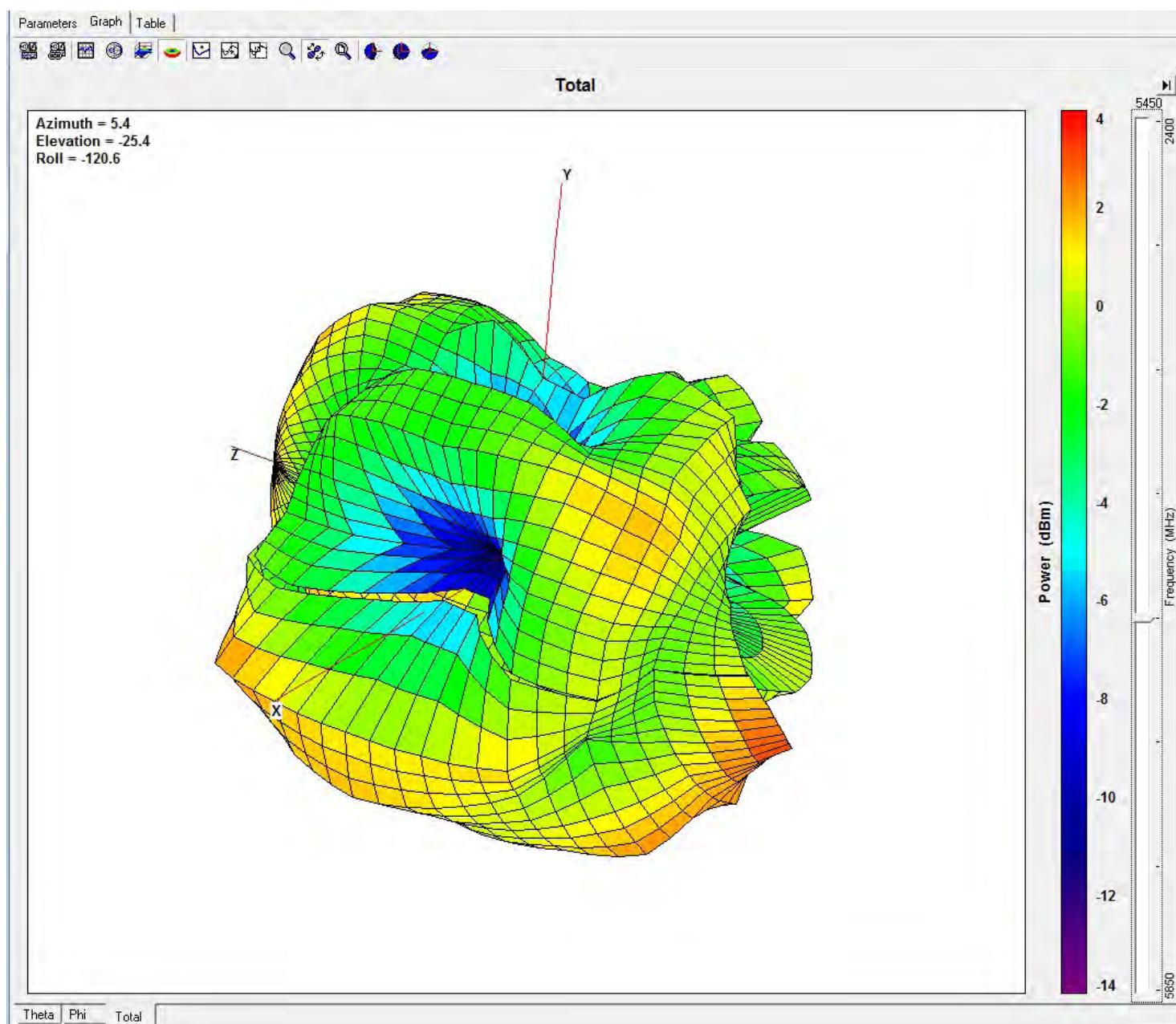


Center freq.(MHz): : 5150

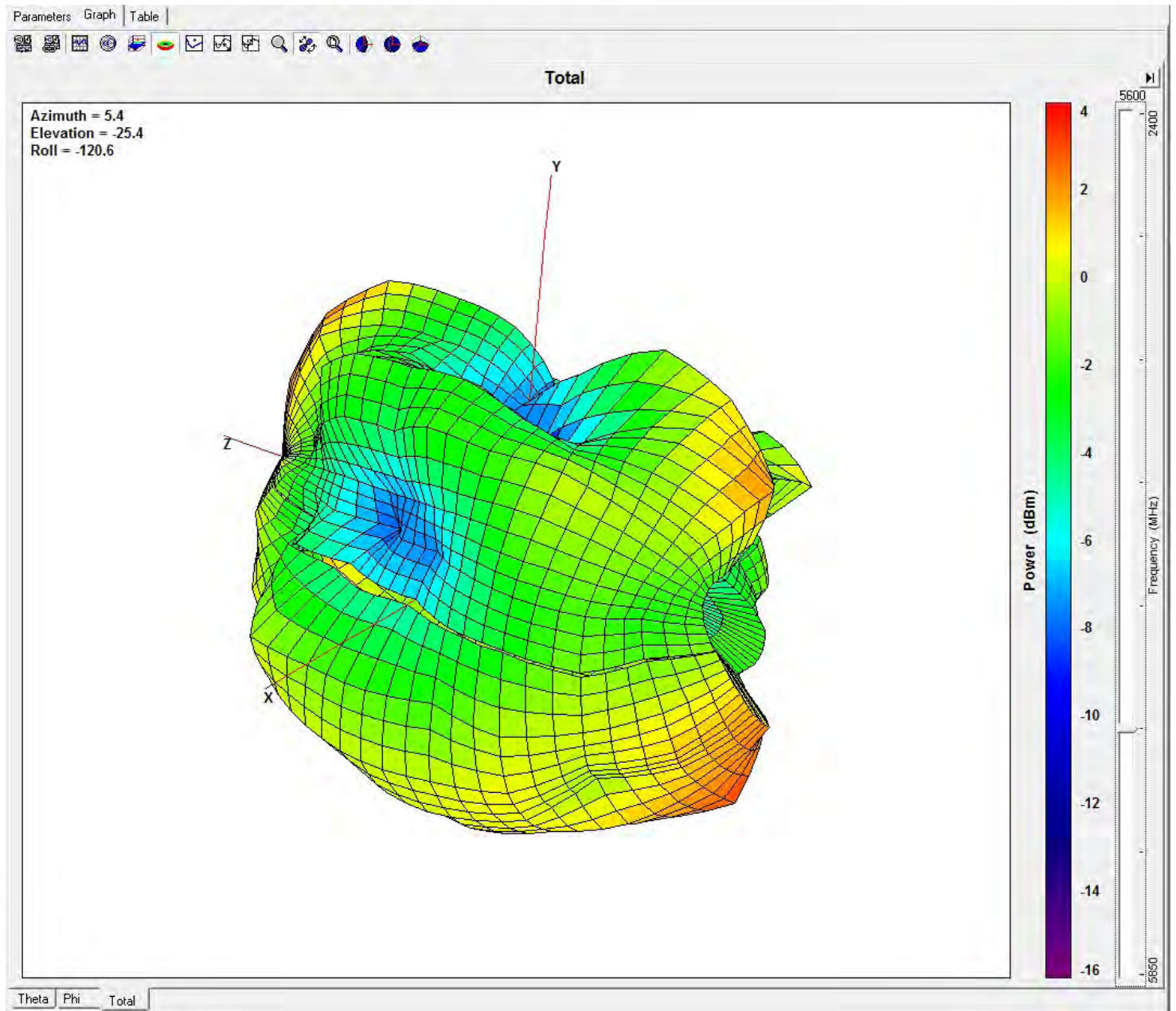




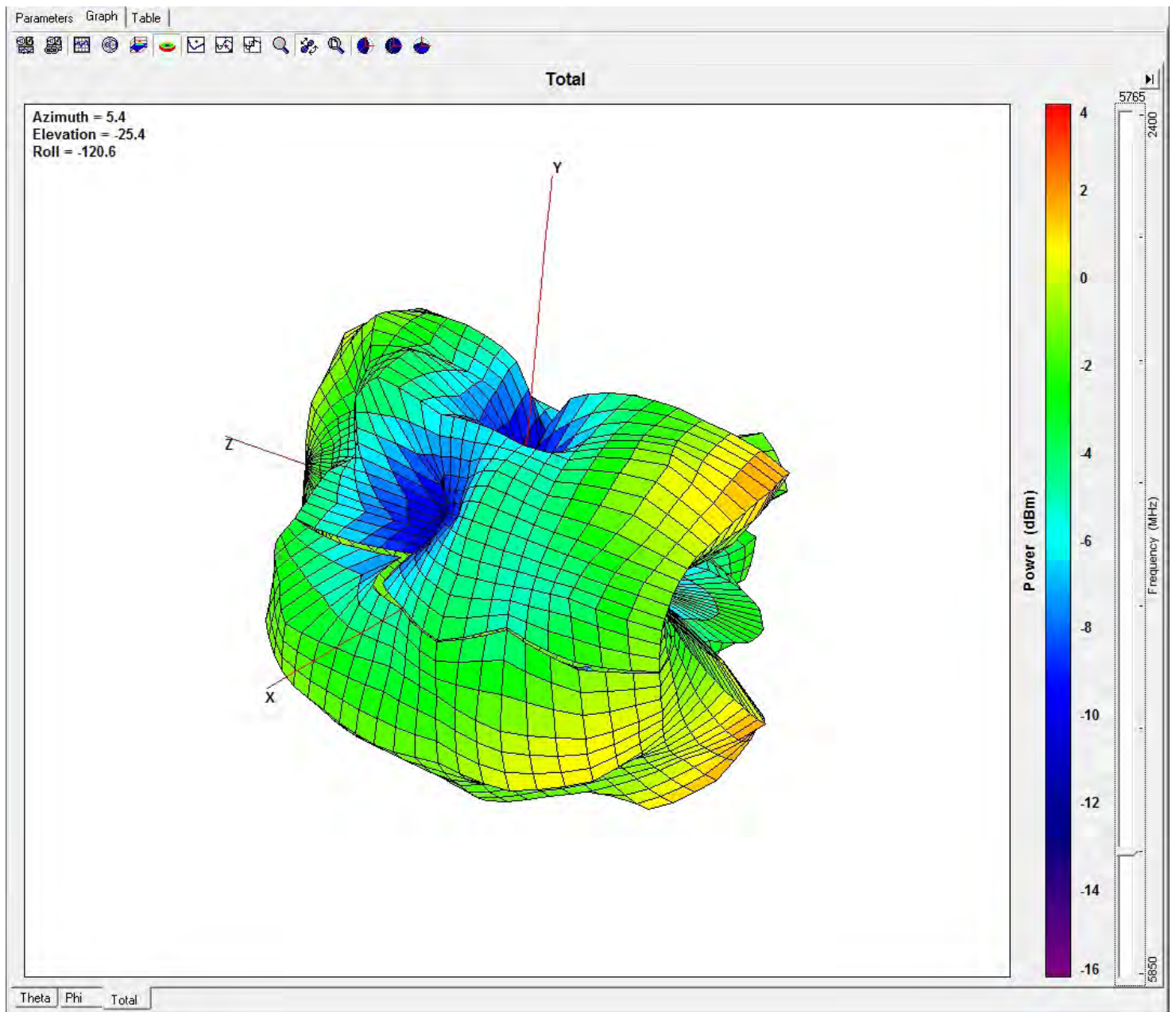
Center freq.(MHz): : 5450



Center freq.(MHz): : 5600

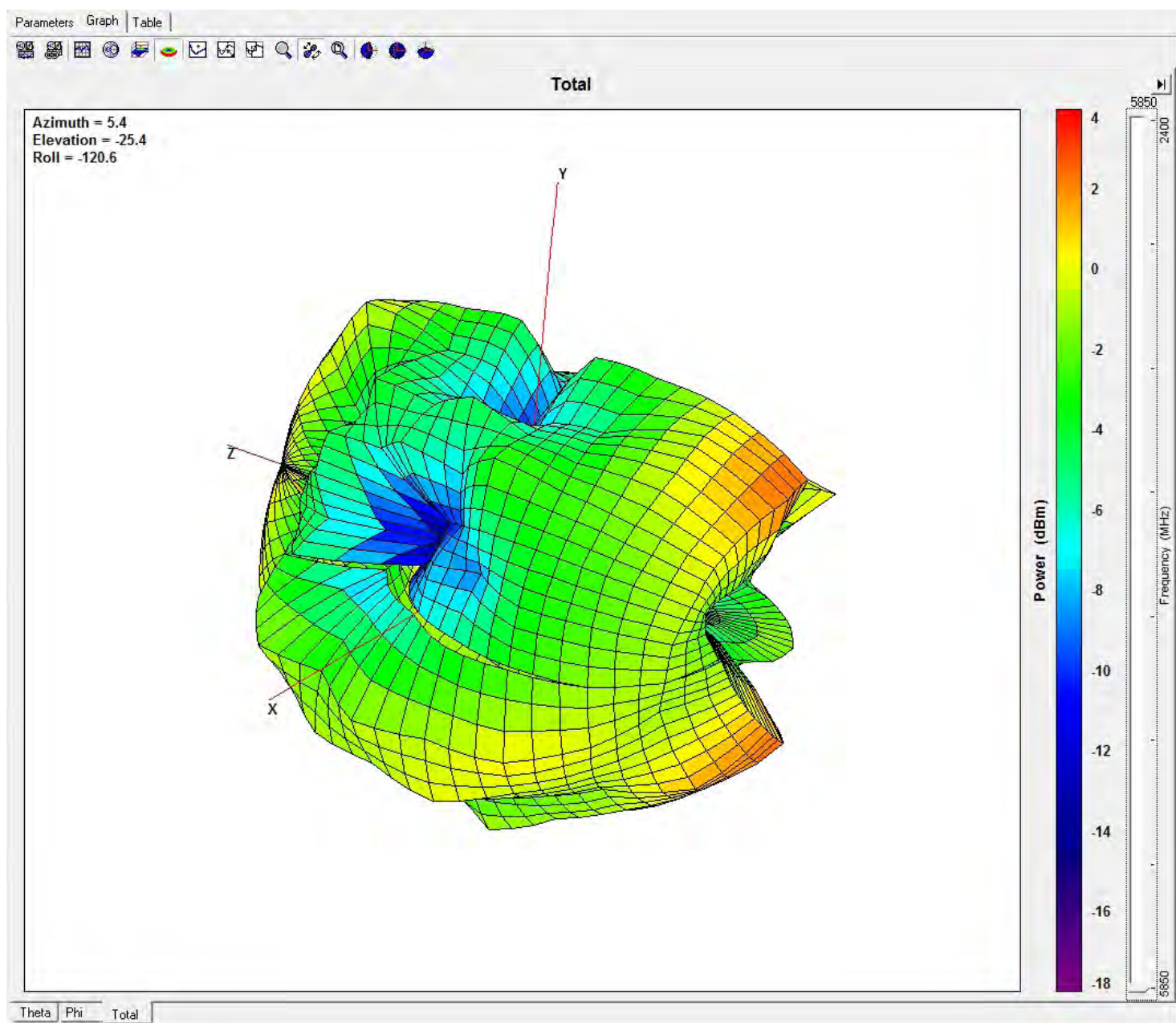


Center freq.(MHz): : 5765





Center freq.(MHz): : 5850



1

2

3

4

5

A

B

C

D

E

F

REV

DESCRIPTION

LOCATION

DRAWN

DATE

△

New drawing

ALGER

2020/7/2

42,2

7,35

3

350±3mm

1

2

3

4

5

6

Al ver.

BRITO TECH.

1,09

3

350±3mm

1

2

3

4

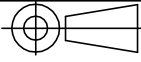
5

6

Al ver.

BRITO TECH.

|      |          |             |                        |                     |      |         |
|------|----------|-------------|------------------------|---------------------|------|---------|
| 6    | N/A      | 熱熔膠         | 熱熔膠                    | N/A                 | 1PCS | N/A     |
| 5    | N/A      | TISSUE TAPE | 離型紙                    | CPN-TT-1607-0078-B  | 1PCS | N/A     |
| 4    | N/A      | TISSUE TAPE | 3M 9448A(42*7.3*0.15T) | CPN-TT-1607-0078-B  | 1PCS | N/A     |
| 3    | N/A      | CONNECTOR   | IPEX FOR Ø1.13mm       | CPN-CA-2007-0814-A  | 1PCS | N/A     |
| 2    | N/A      | CABLE       | Ø1.13mm CABLE;BLACK    | CPN-CA-2007-0814-A  | 1PCS | N/A     |
| 1    | EM60-PCB | PCB         | FR-4                   | CPN-PCB-1508-0016-B | 1PCS | N/A     |
| ITEM | PART NO. | PART NAME   | MATERIAL               | DWG NO.             | QT'Y | REMARKS |

|                                                                                                             |           |                         |                    |                   |                                  |  |
|-------------------------------------------------------------------------------------------------------------|-----------|-------------------------|--------------------|-------------------|----------------------------------|--|
| RANGE                                                                                                       | TOLERANCE | BRITO<br>昀陽科技有限公司       |                    |                   | MODEL NAME<br>WLAN ANTENNA       |  |
| X.xx                                                                                                        | ± 0.10    | MATERIAL:<br>See TABLE  |                    |                   | TITLE:<br>WLAN EMBEDDED ANTENNA  |  |
| X.x                                                                                                         | ± 0.15    |                         |                    |                   | SIZE: A3PART NO. DB1EM60-I0350-S |  |
| X                                                                                                           | ± 0.25    | FINISH:<br>WLAN ANTENNA | DESIGN:<br>JOHN    | DATE:<br>2020/7/2 | SCALE : N/ASHEET 1 OF 1          |  |
| <br>THE 3RD PROJECTION |           | UNIT:<br>mm             | APPROVED:<br>BRUCE | DATE:<br>2020/7/2 | DWG NO. WLA-EM-2007-0150-AREV. A |  |

MP-CAD-V02170323