



# OTA Performance Measurement Report

Report Ref. No.

T141126D01

**Applicant:**

Zeroplus Technology Co.,Ltd

**Date of Application:** 2014/11/26

**Test Period:** 2014/12/1

**Date of Issue:**2014/12/5

**Test Lab Info:**

Compliance Certification Services Inc.  
No.11, Wugong 6<sup>th</sup> Rd., Wugu Industrial Park.  
Taipei Hsien 248, Taiwan, R.O.C.

## Test Item

**Name of Product:**

Antenna Gain

**Brand Name:**

ZEROPLUS

**Model/ Ref. No:**



RDA5875Y

**Name and Address of Manufacturer:**

2F., No. 123, Jian 8th Rd., Zhonghe Dist., New Taipei City 23585, Taiwan

**Remarks:**

2402MHz~2480MHz  
3D Gain Measurement Results

Confirmation	Approved by 	Tested by 
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### Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	2014/12/5	Initial Issue	ALL	Eason.k.liu



## Table Of Contents

<b>1</b>	<b>GENERAL INFORMATION.....</b>	<b>4</b>
1.1	DESCRIPTION OF DEVICE UNDER TEST (DUT) .....	4
1.2	PRODUCT PHOTO .....	4
<b>2</b>	<b>SUMMARY OF TEST RESULT .....</b>	<b>5</b>
2.1	AMBIENT CONDITION .....	6
<b>3</b>	<b>DESCRIPTION FOR DUT TESTING POSITION .....</b>	<b>7</b>
<b>4</b>	<b>2D TEST PLOTTING .....</b>	<b>8</b>
<b>5</b>	<b>3D TEST PLOTTING .....</b>	<b>17</b>

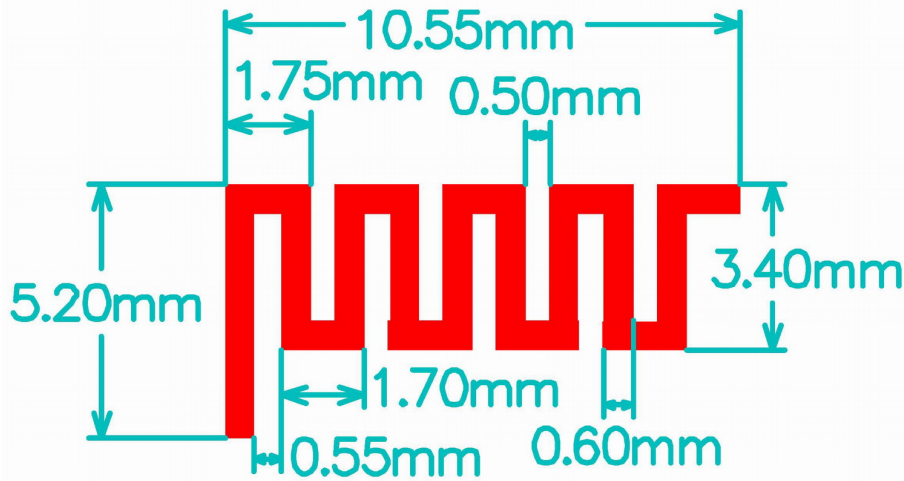


## 1 General Information

### 1.1 Description of Device Under Test (DUT)

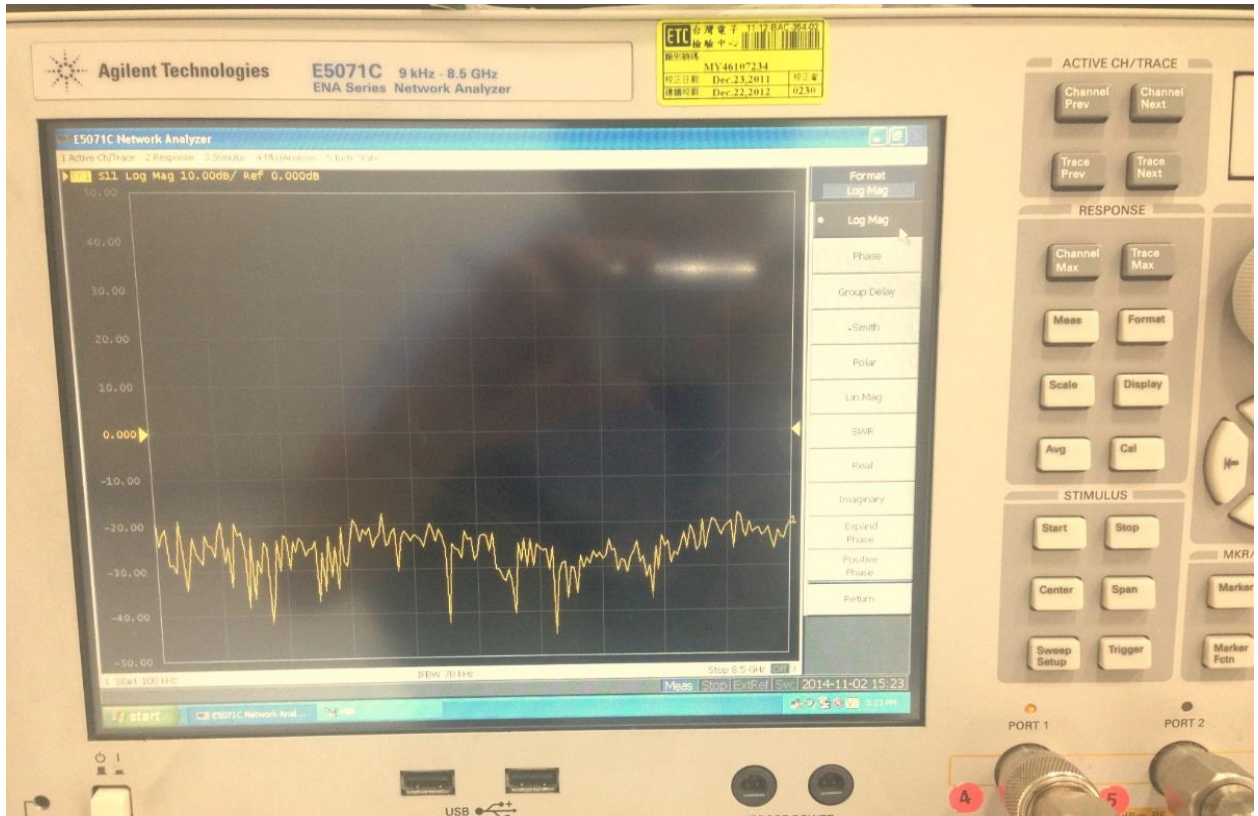
Product Feature & Specification	
Brand Name	ZEROPLUS
Model Name	RDA5875Y
Frequency	2402MHz~2480MHz

### 1.2 Product Photo





### 1.3 Equipment Photo





## 2 Summary of Test Result

### 2.1 Ambient Condition

Temperature(°C)	22.4°C	Humidity(°C)	54%
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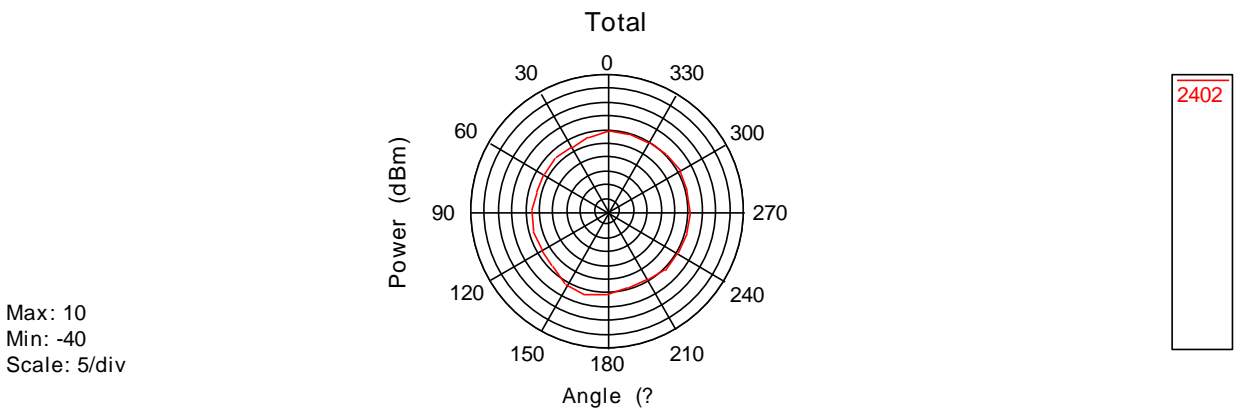
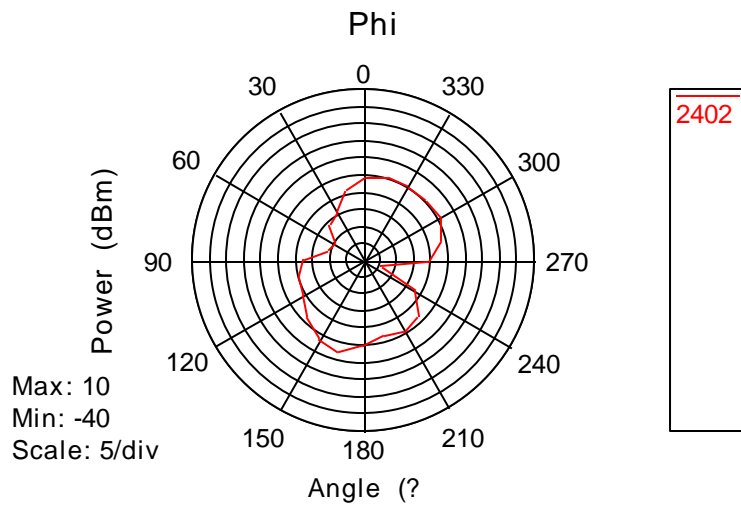
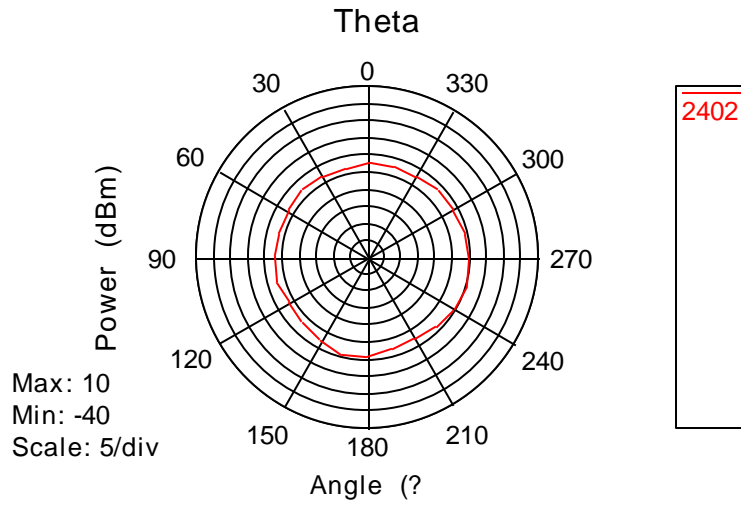
Test / Position	Gain / Free Space		
Frequency	2400	2450	2500
Ant. Port Input Pwr. (dBm)	0	0	0
Tot. Rad. Pwr. (dBm)	-11.8149	-11.5297	-11.8761
Peak EIRP (dBm)	-7.36321	-6.72032	-6.81552
Directivity (dBi)	4.45166	4.80941	5.06058
Efficiency (dB)	-11.8149	-11.5297	-11.8761
Efficiency (%)	6.58435	7.03117	6.49218
Gain (dBi)	-7.36321	-6.72032	-6.81552
NHPRP $\pm\pi/4$ (dBm)	-13.4689	-13.3	-13.7452
NHPRP $\pm\pi/6$ (dBm)	-14.8995	-14.8444	-15.4325
Average Gain (dB)	-11.8149	-11.5297	-11.8761

### Test result RDA5875Y

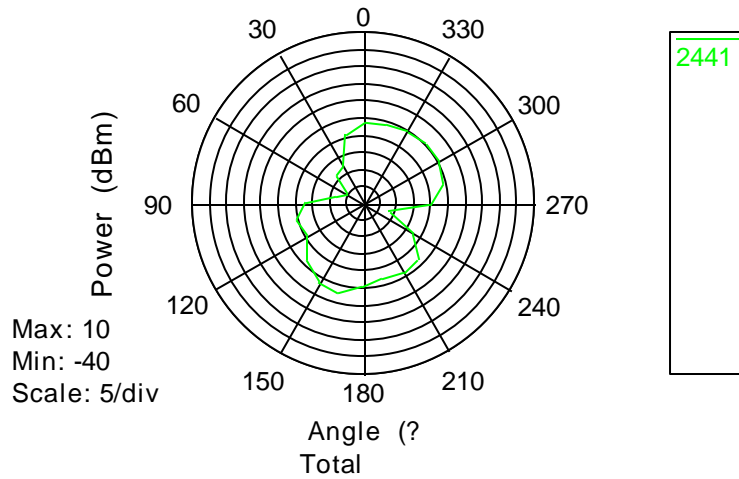
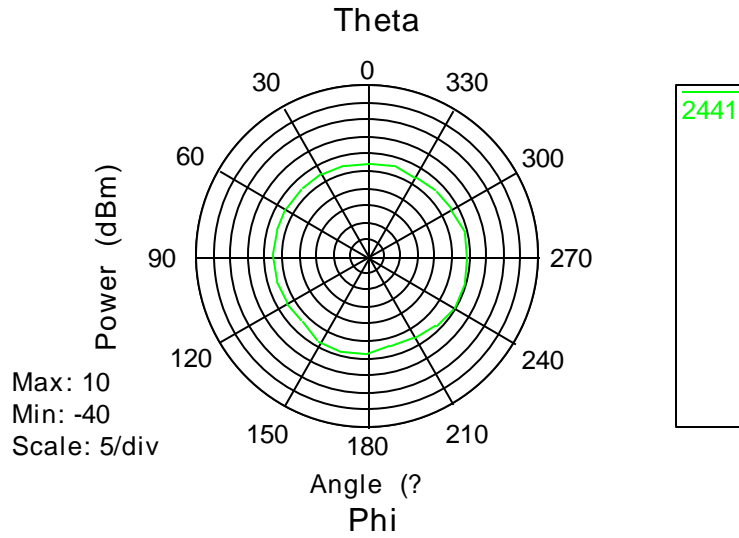


### 4 2D Test Plotting

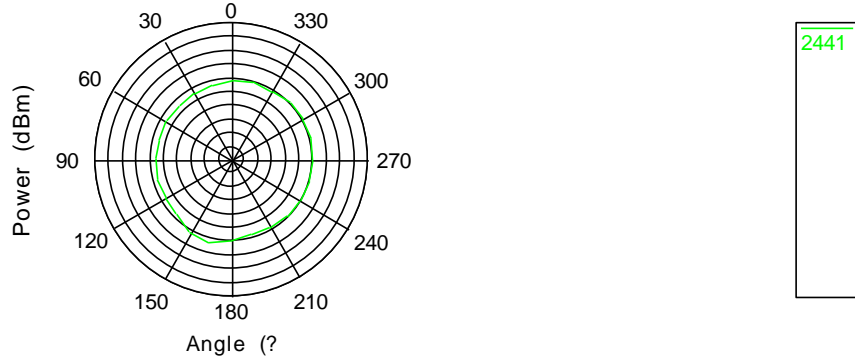
The test plotting was shown as below



2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2402MHz

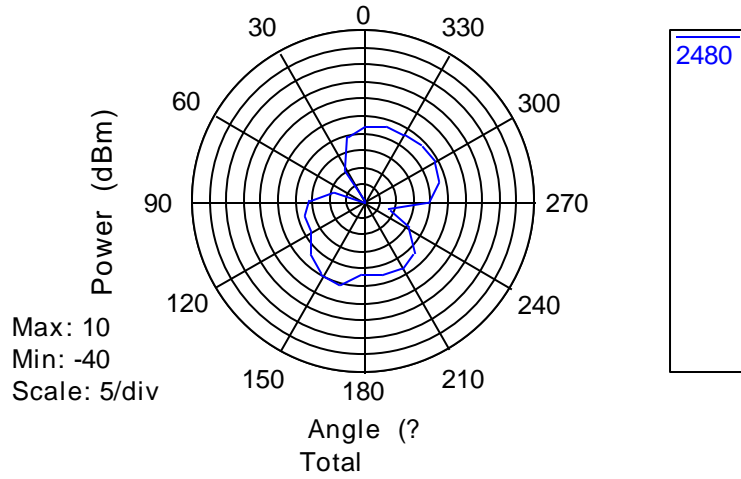
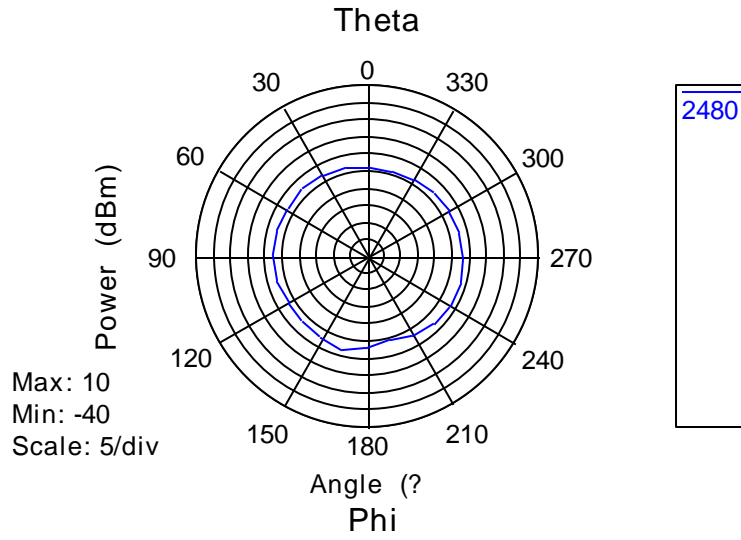


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Scale: 5/div

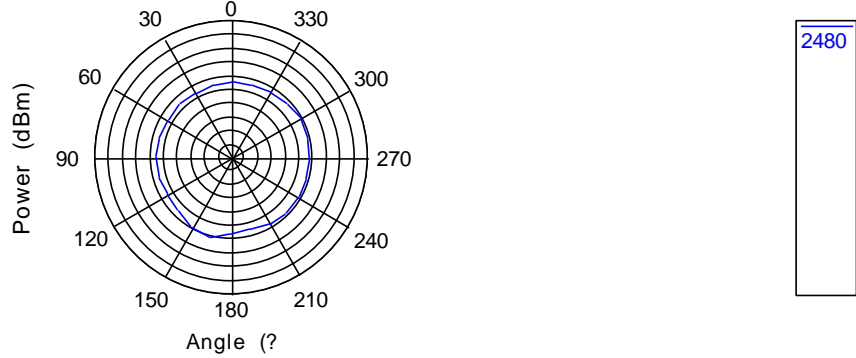


2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2441MHz

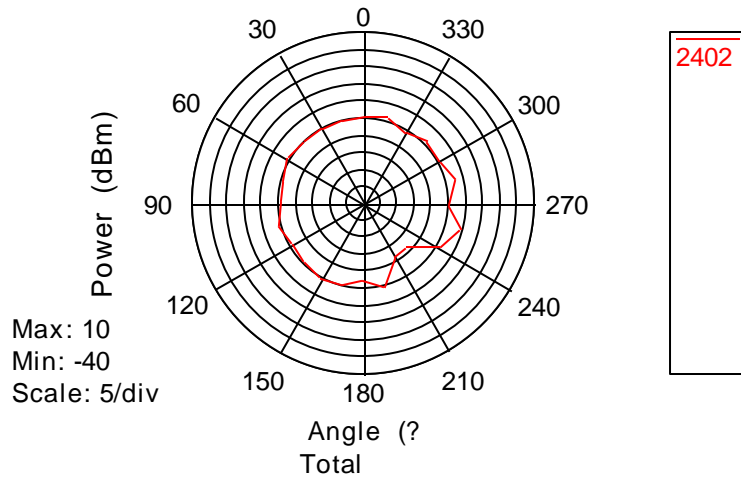
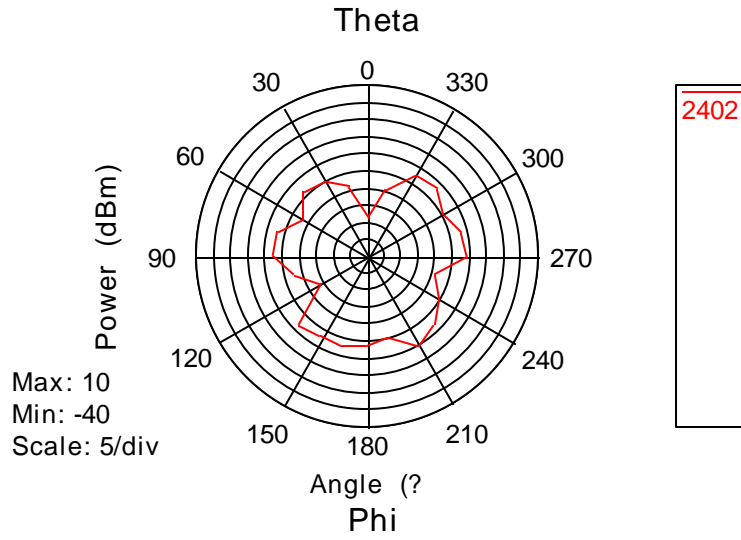




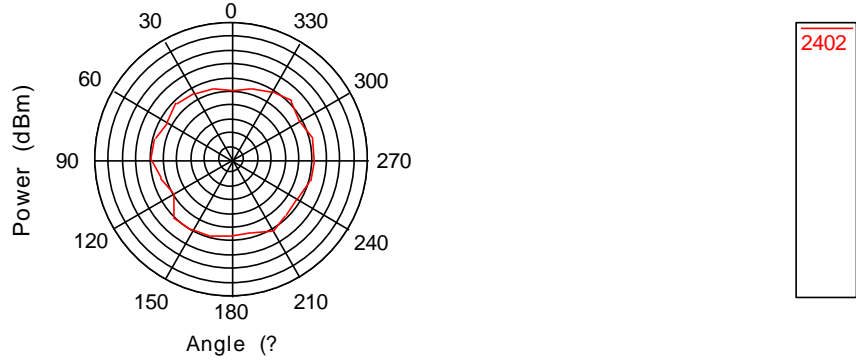
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Scale: 5/div



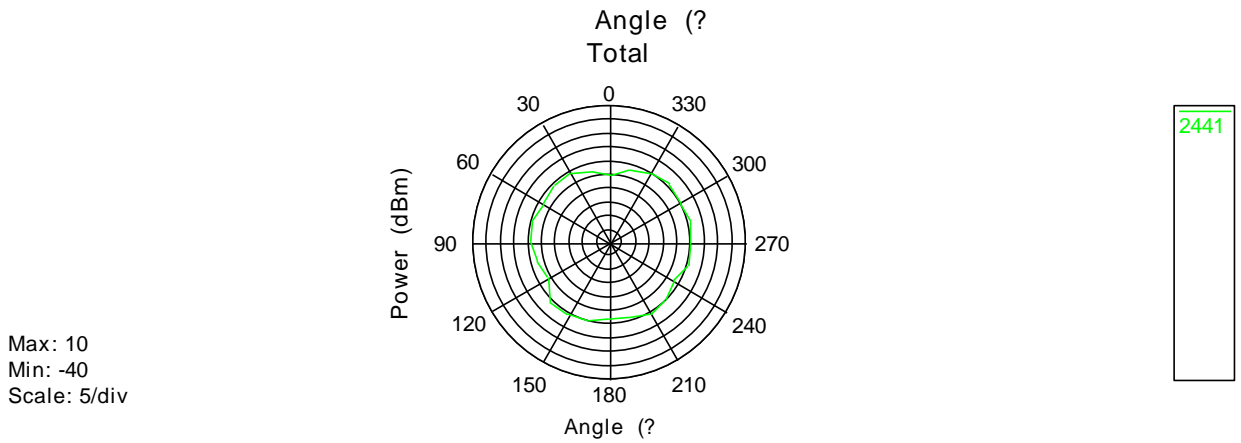
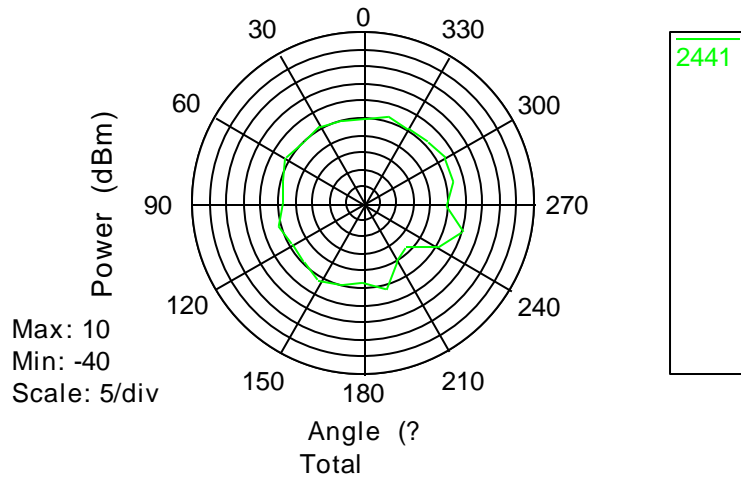
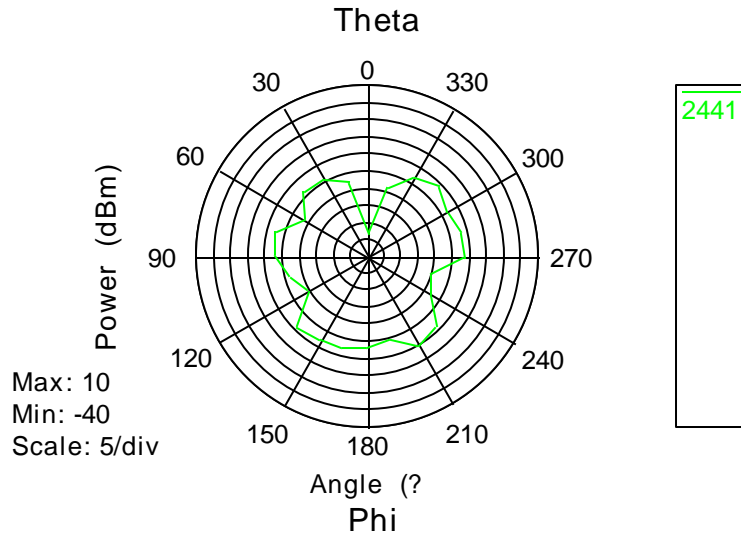
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2480MHz



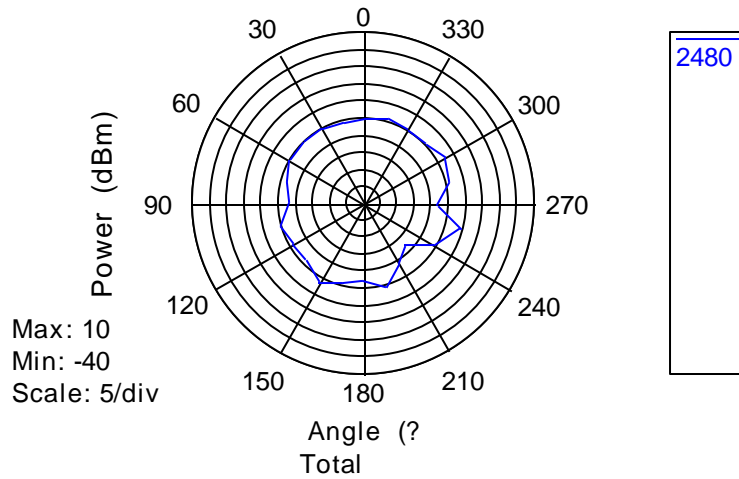
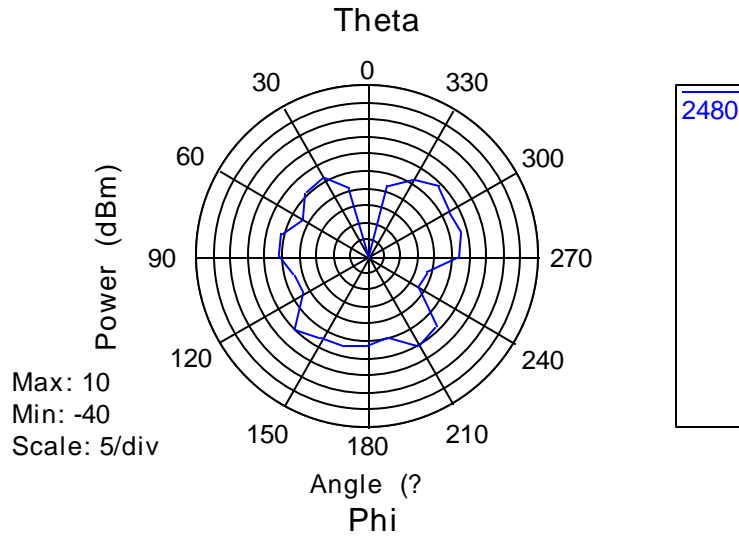
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Scale: 5/div



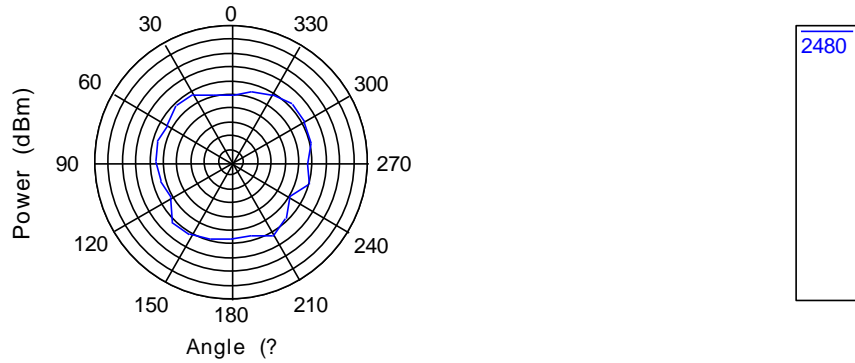
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2402MHz



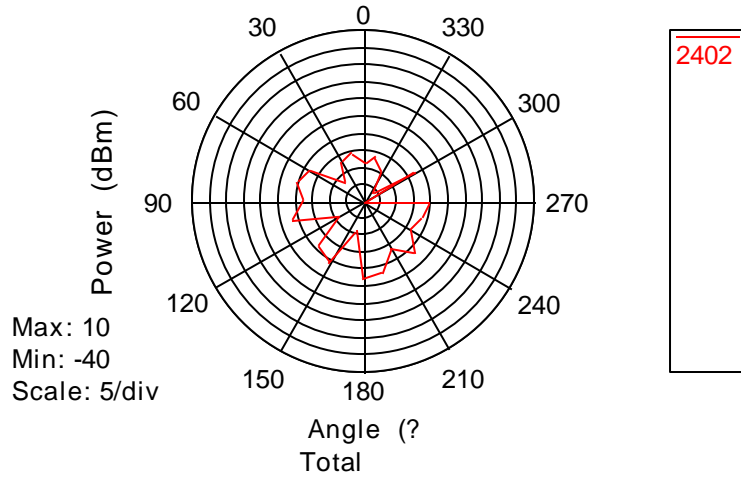
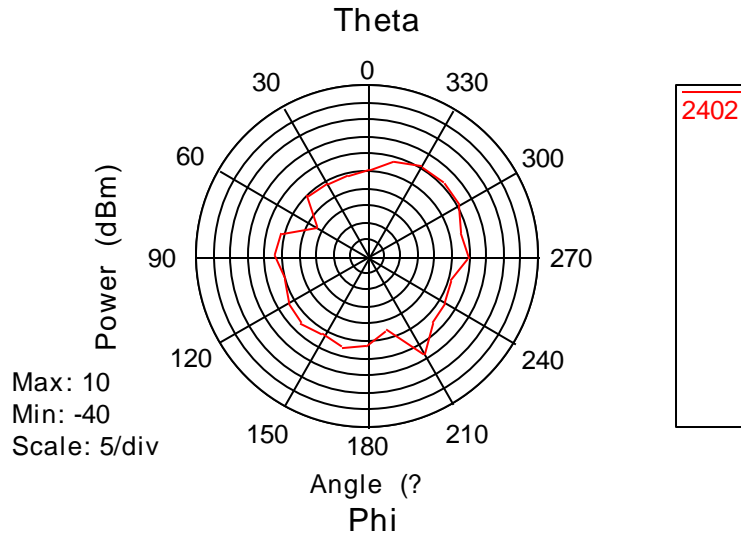
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz



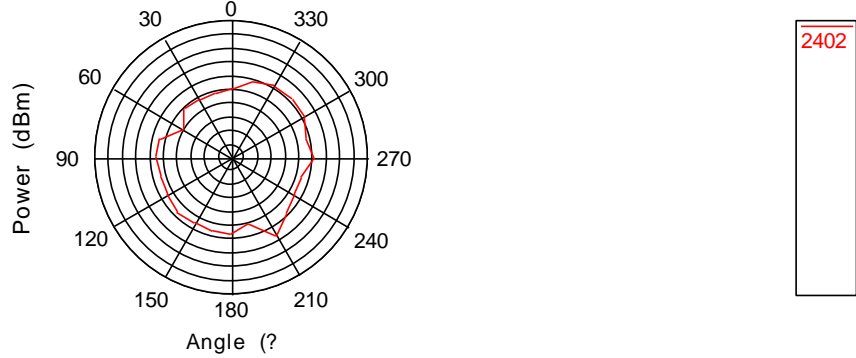
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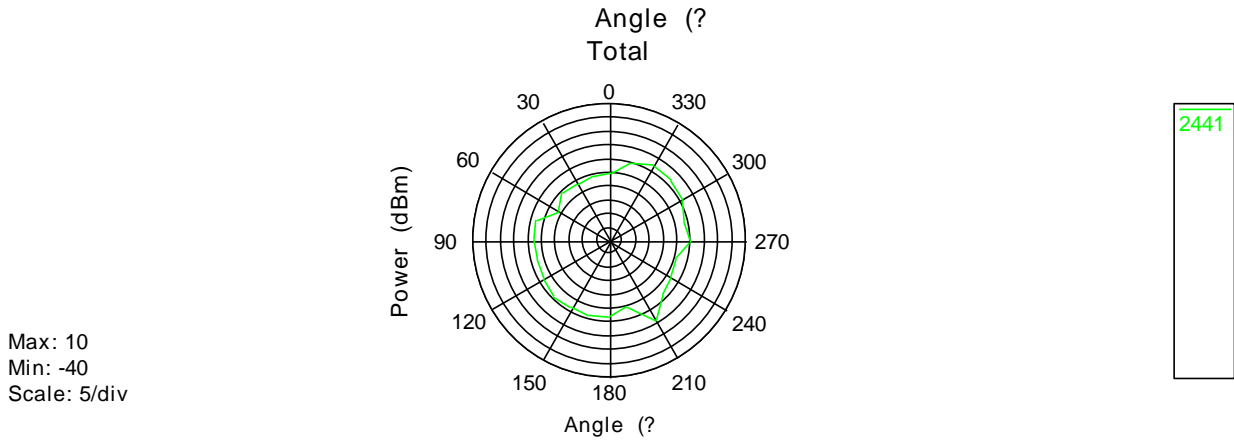
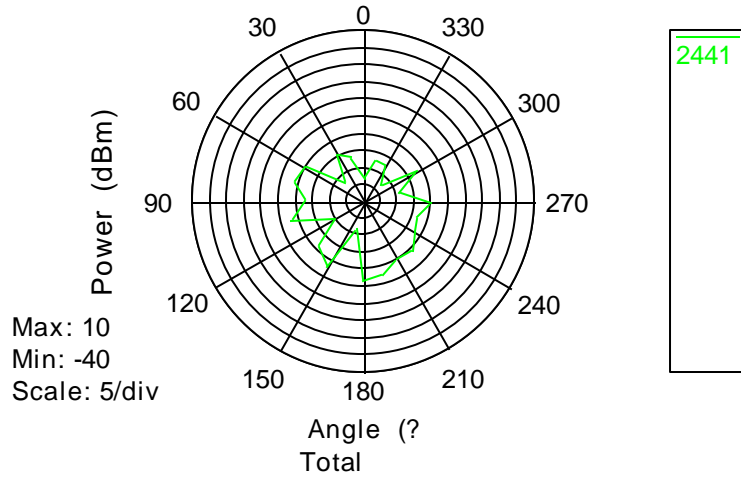
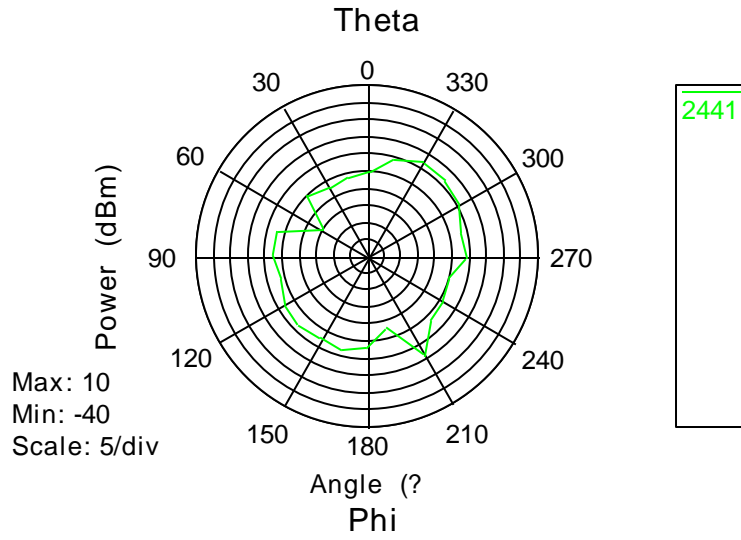
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



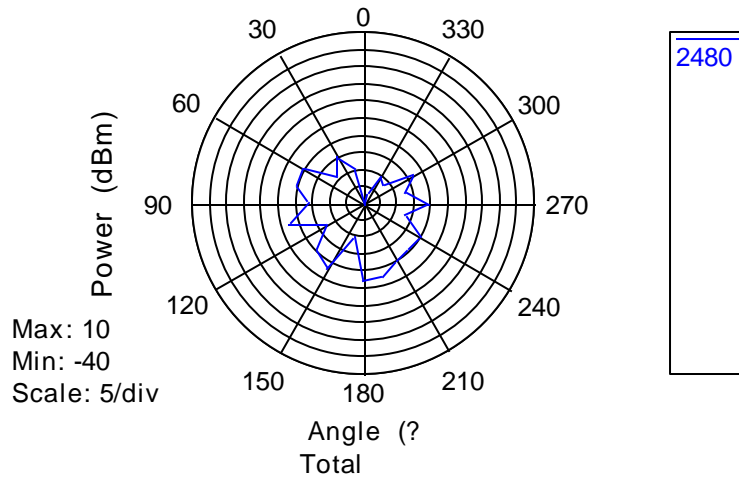
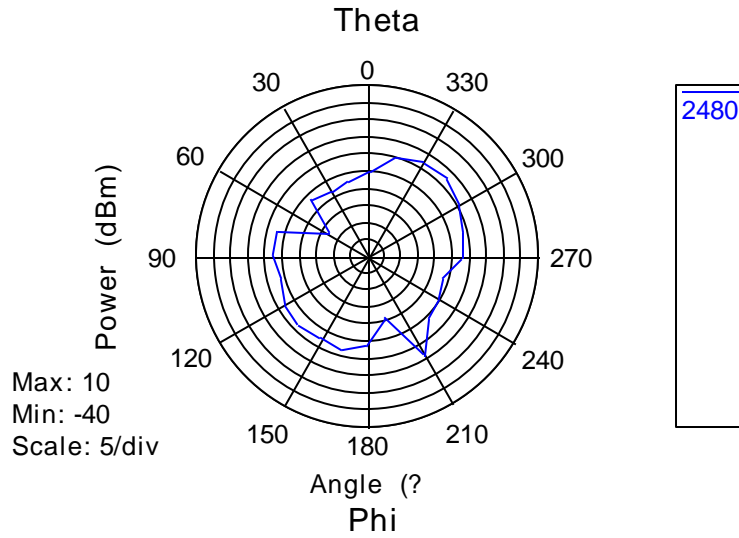
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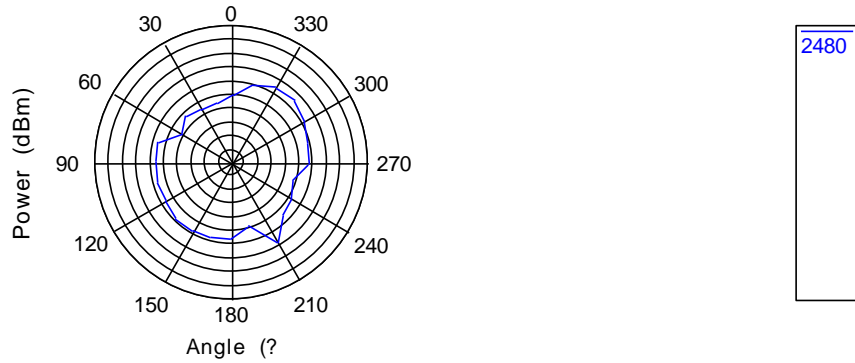
2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2402MHz



2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz



Max: 10  
Min: -40  
Scale: 5/div

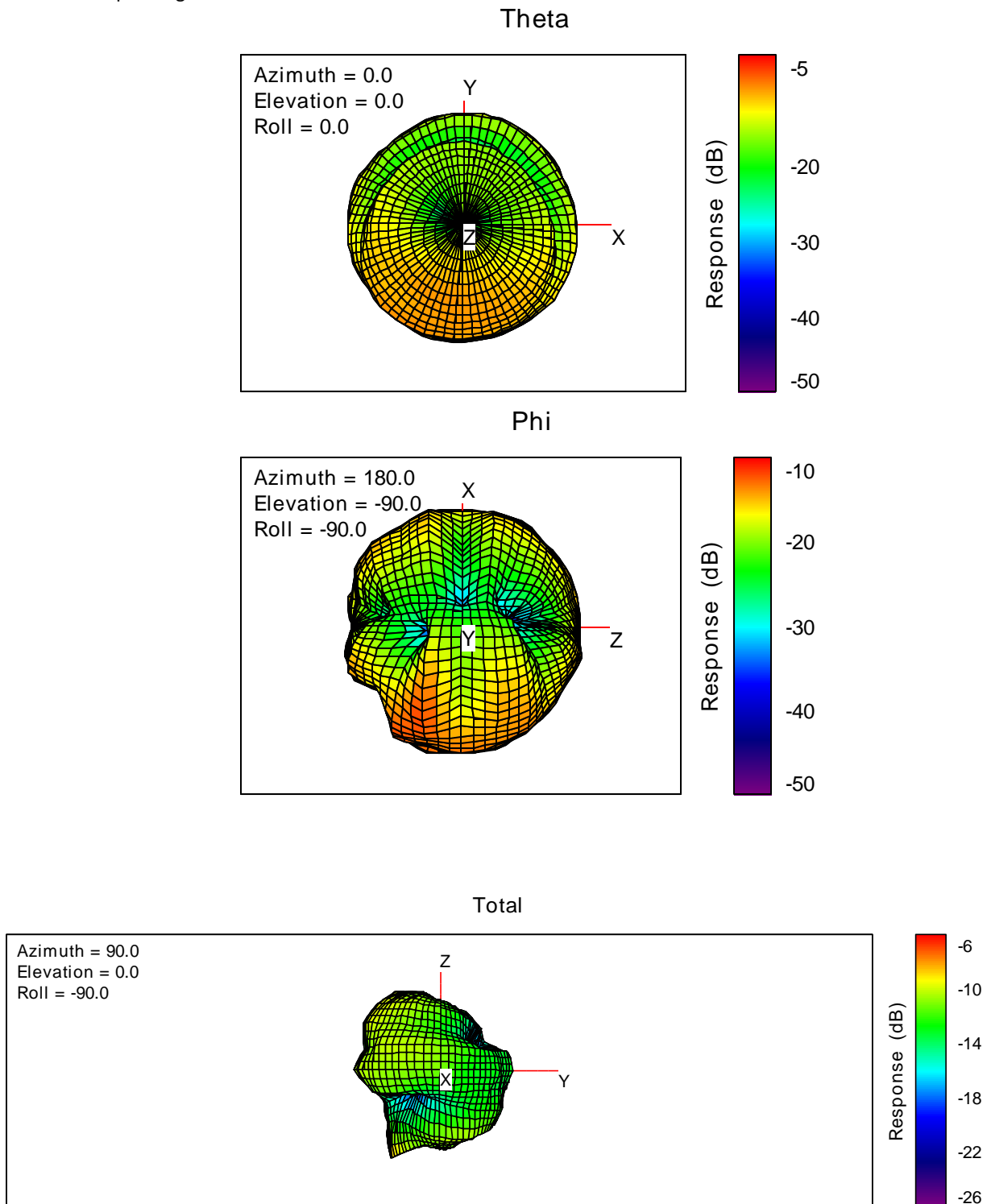


2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



## 5 3D TEST PLOTTING

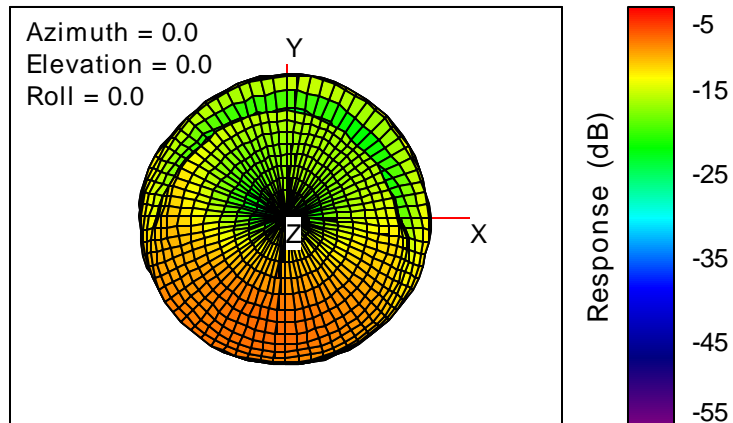
The test plotting was shown as below



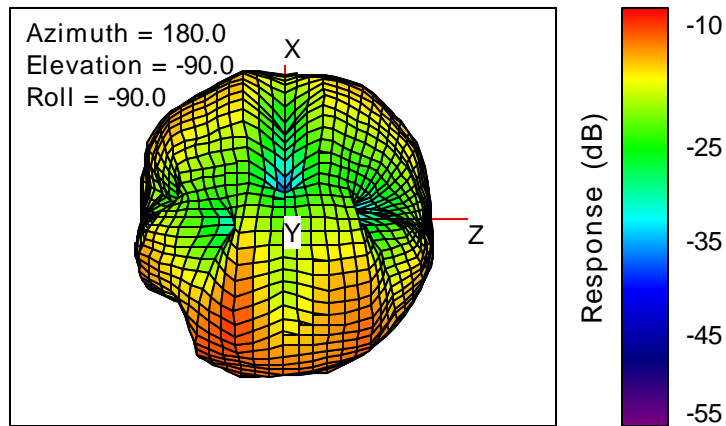




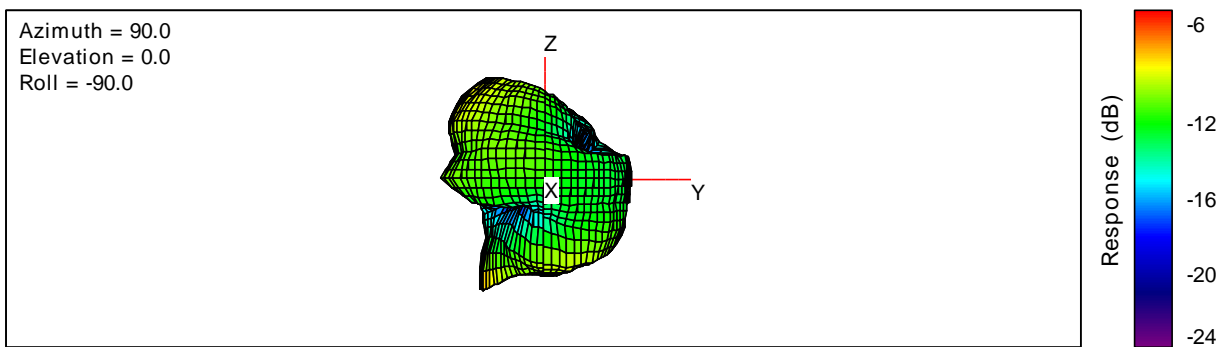
Theta



Phi



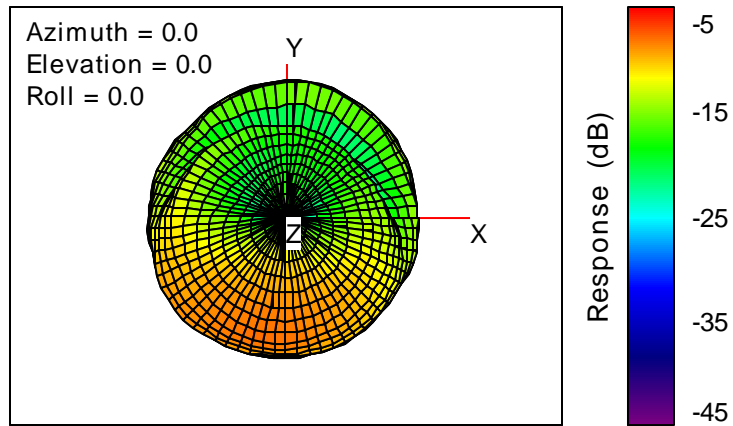
Total



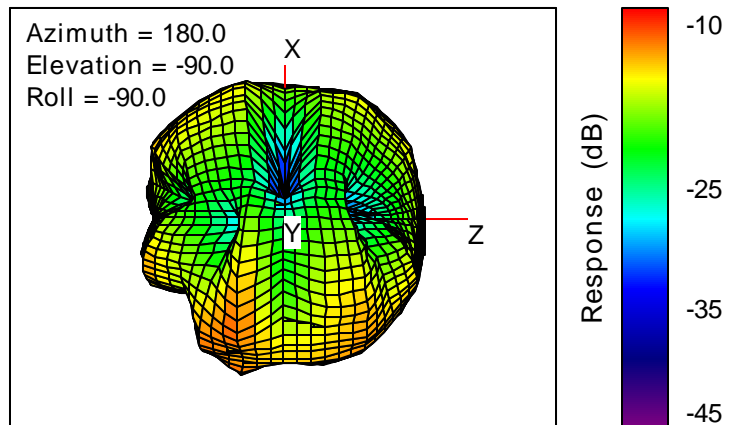
3D RDA5875Y Antenna Gain Free Space-2441MHz



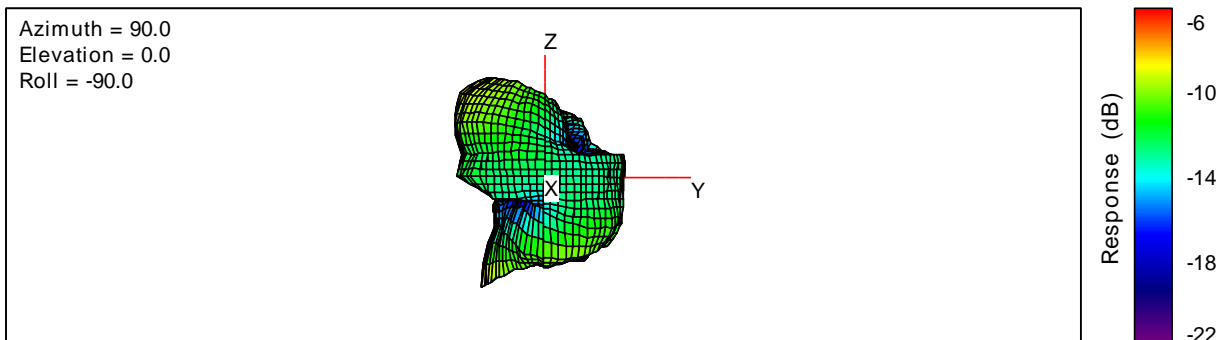
Theta



Phi



Total



3D RDA5875Y Antenna Gain Free Space-2480MHz