



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 6th 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



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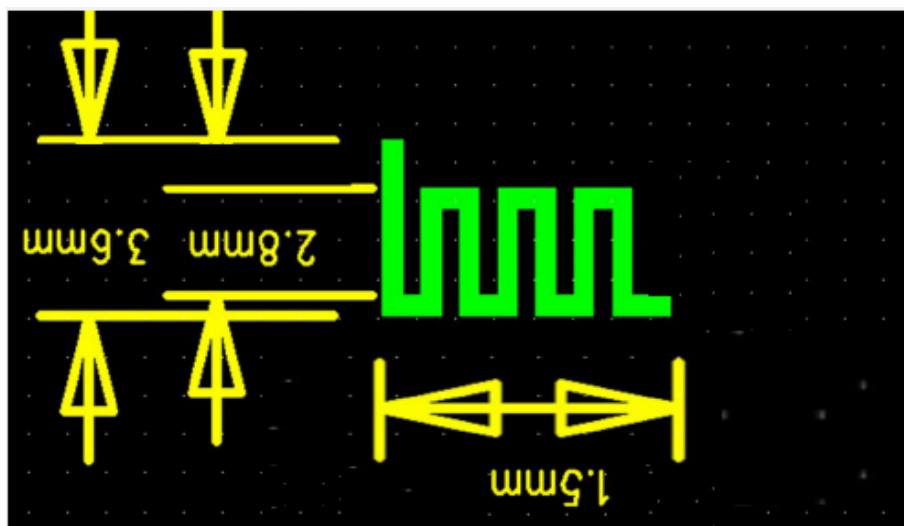
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1 General Information

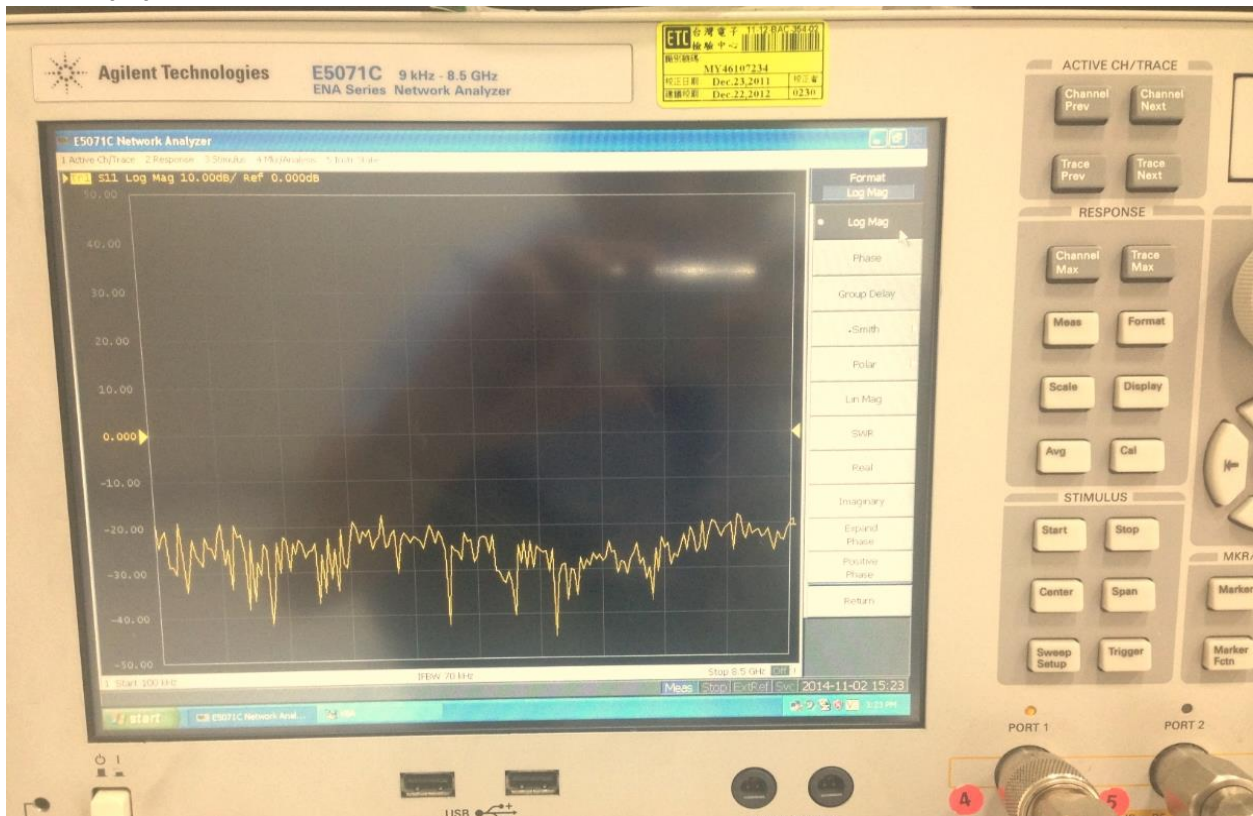
1.1 Description of Device Under Test (DUT)

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





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)	-11.81	-11.53	-11.88
Peak EIRP (dBm)	-7.36	-6.72	-6.82
Directivity (dBi)	4.45	4.81	5.06
Efficiency (dB)	-11.82	-11.53	-11.88
Efficiency (%)	6.58	7.03	6.49
Gain (dBi)	-7.36	-6.72	-6.82
NHPRP $\pm\pi/4$ (dBm)	-13.47	-13.3	-13.75
NHPRP $\pm\pi/6$ (dBm)	-14.9	-14.84	-15.43
Average Gain (dB)	-11.82	-11.53	-11.88

Test result RDA5875Y



3 Description for DUT Testing Position

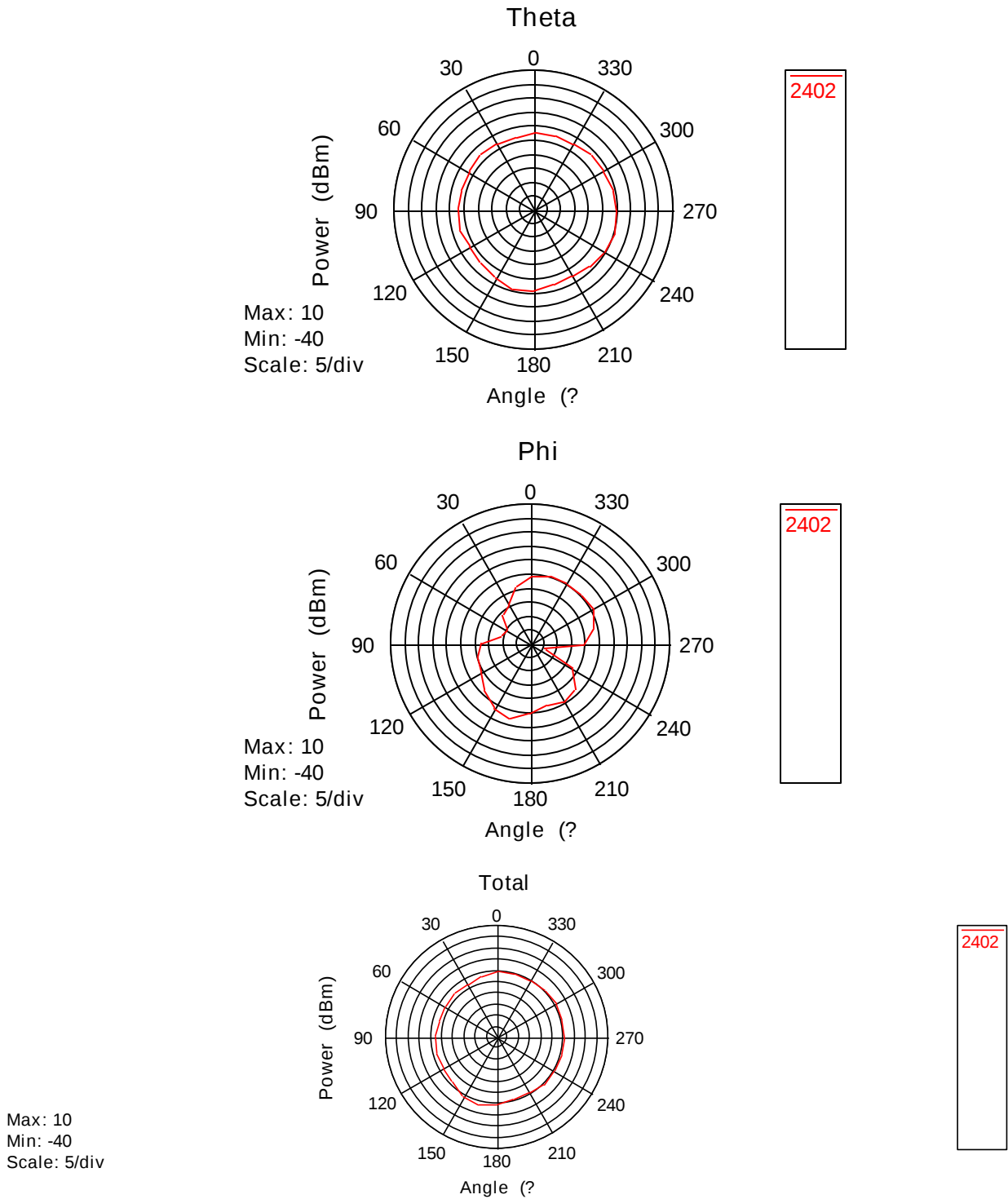


Test Position Free Space –Setup

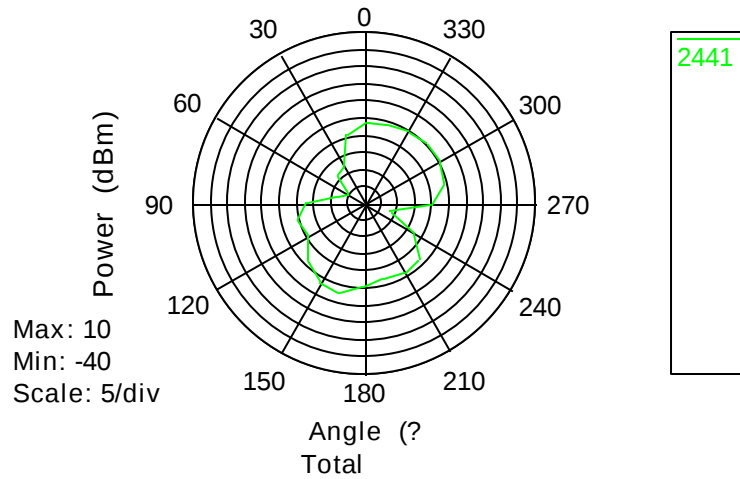
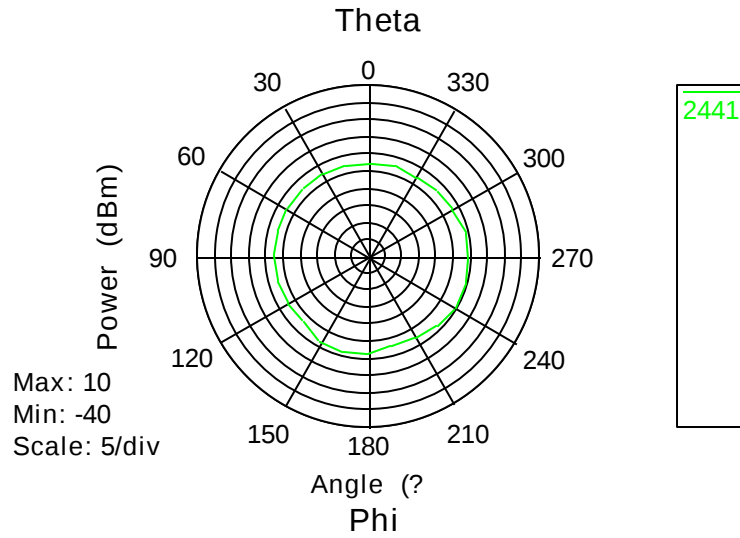


4 2D Test Plotting

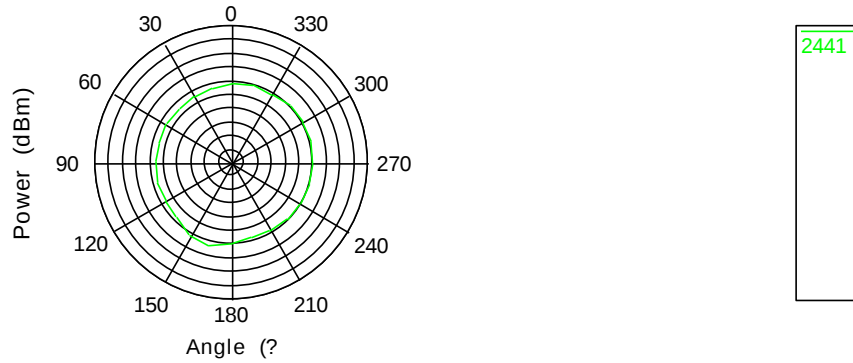
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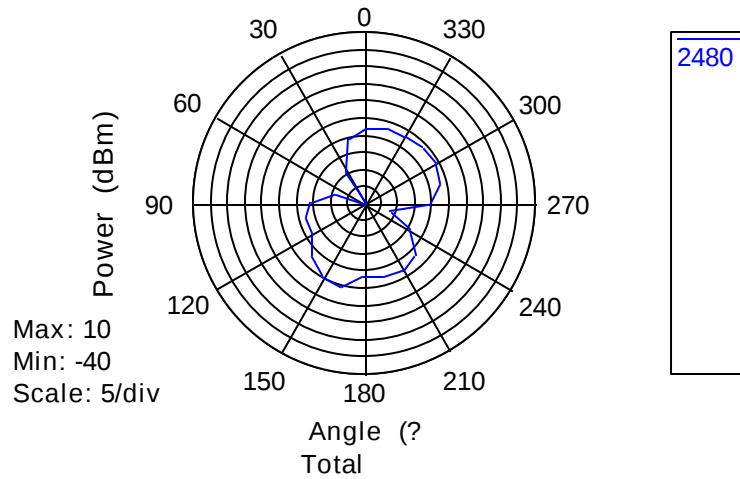
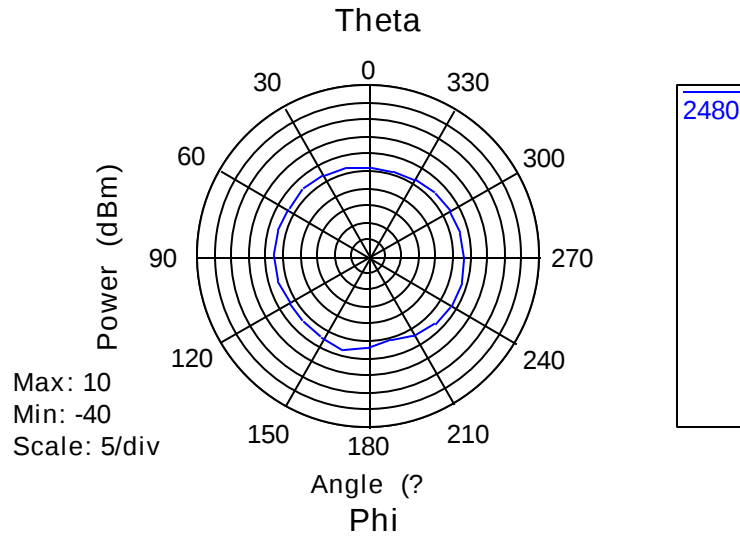
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2402MHz



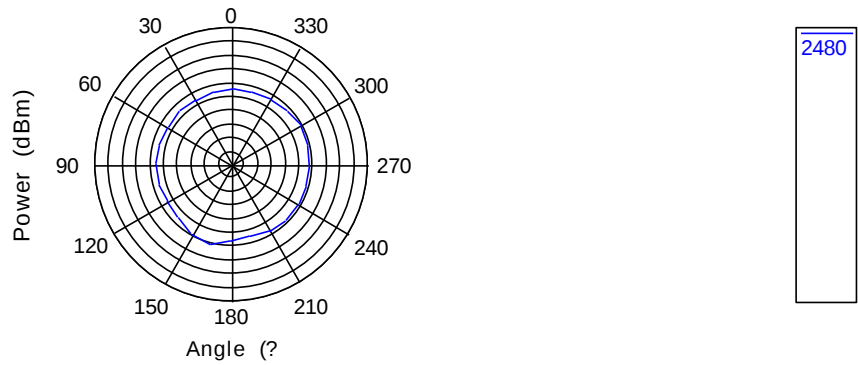
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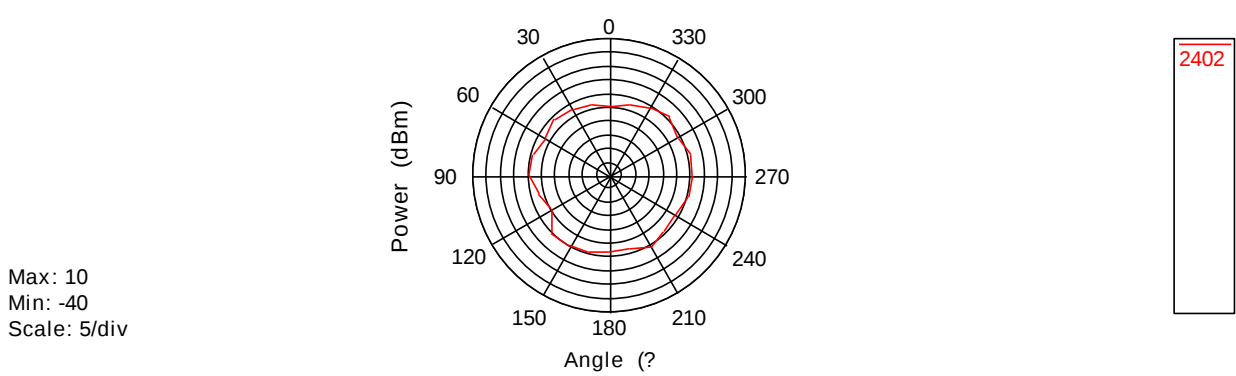
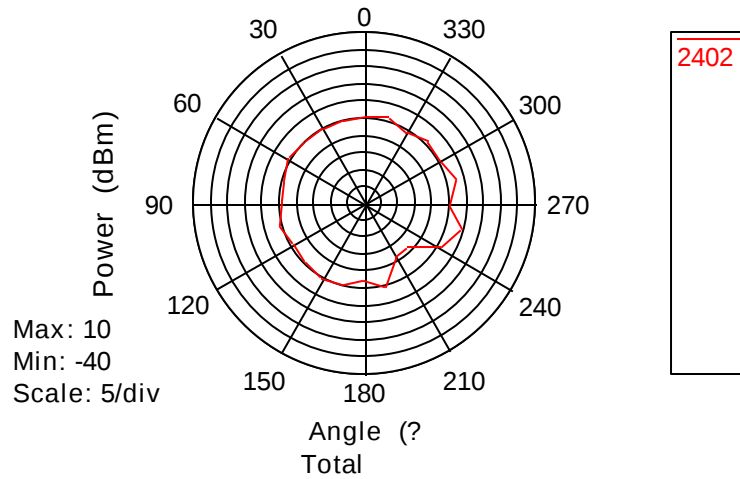
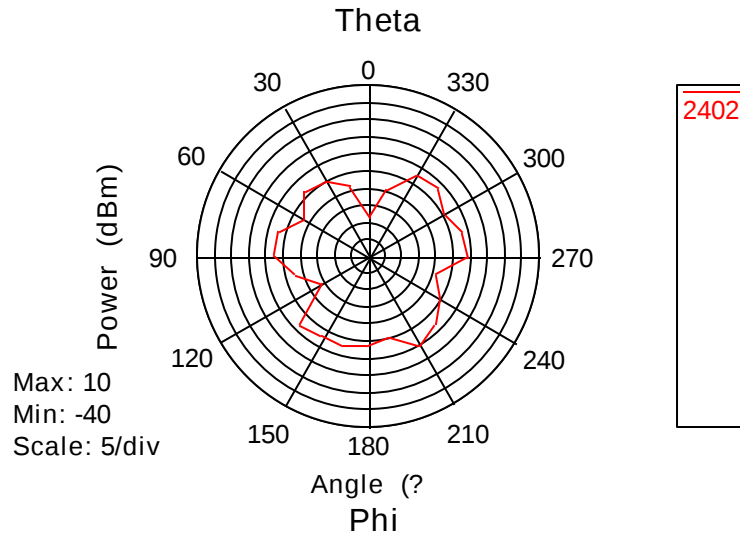
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2441MHz



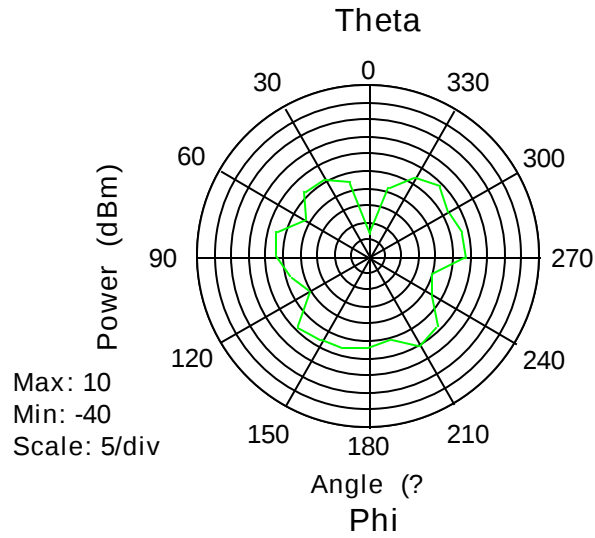
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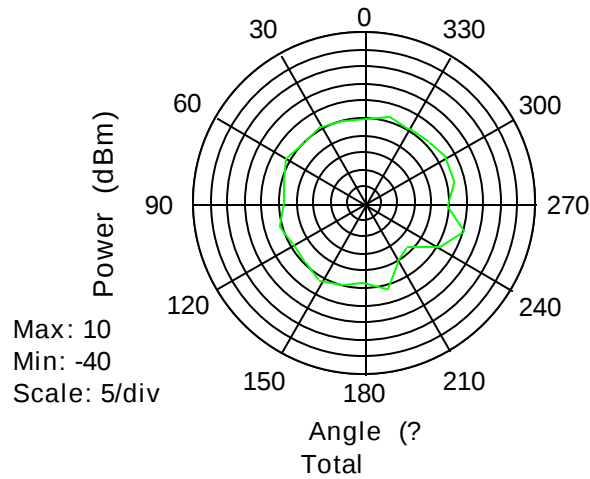
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2480MHz



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

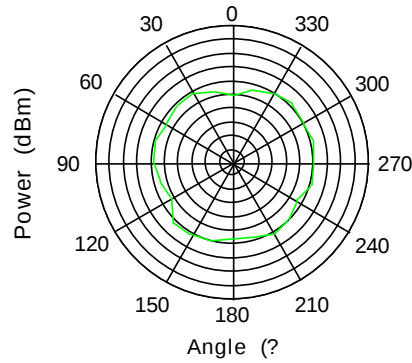


2441



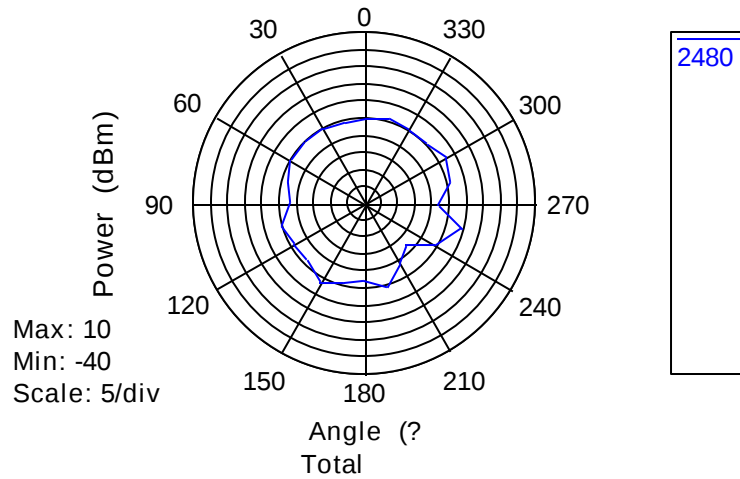
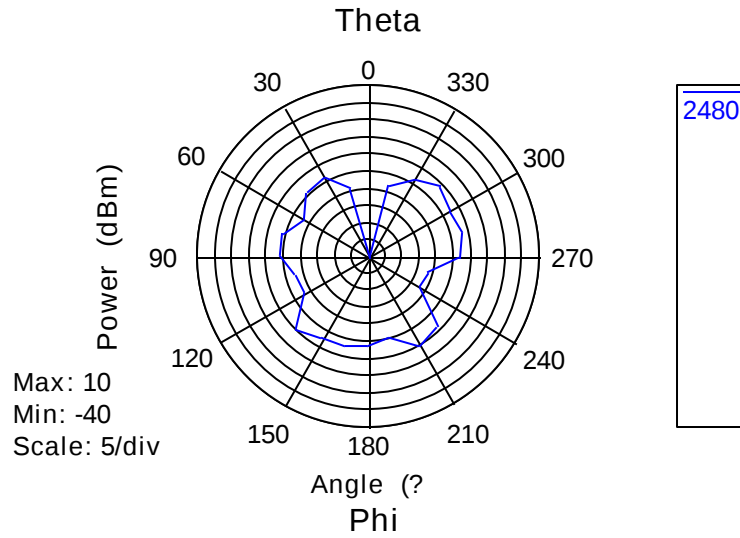
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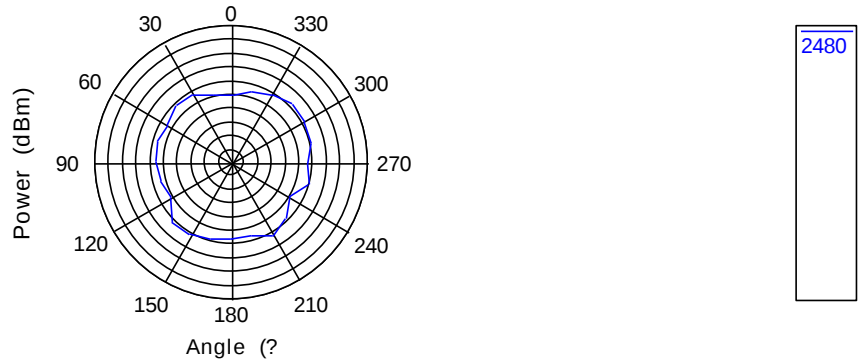


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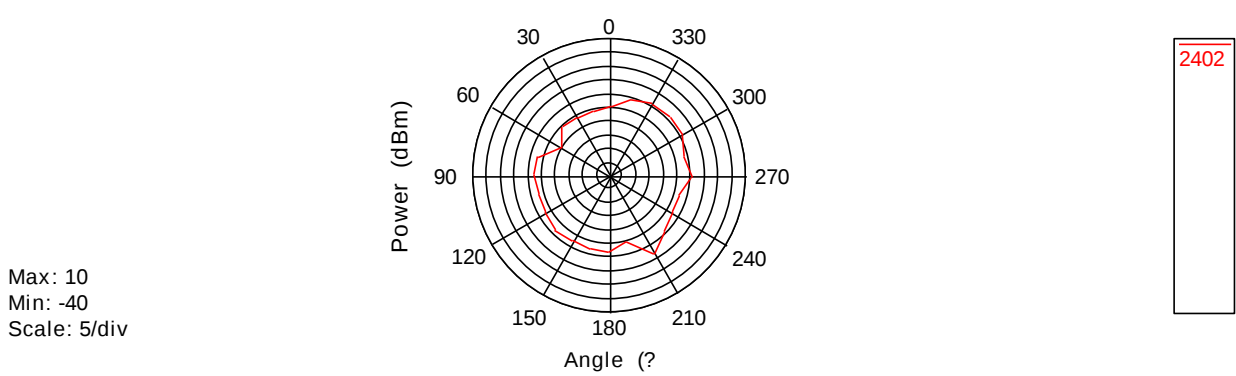
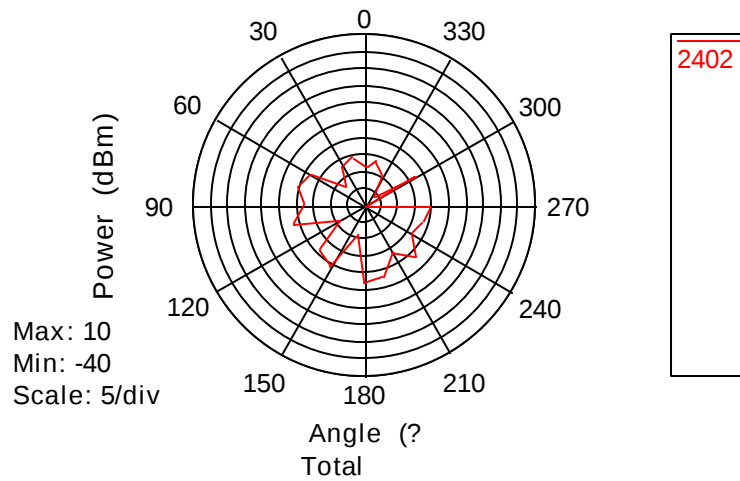
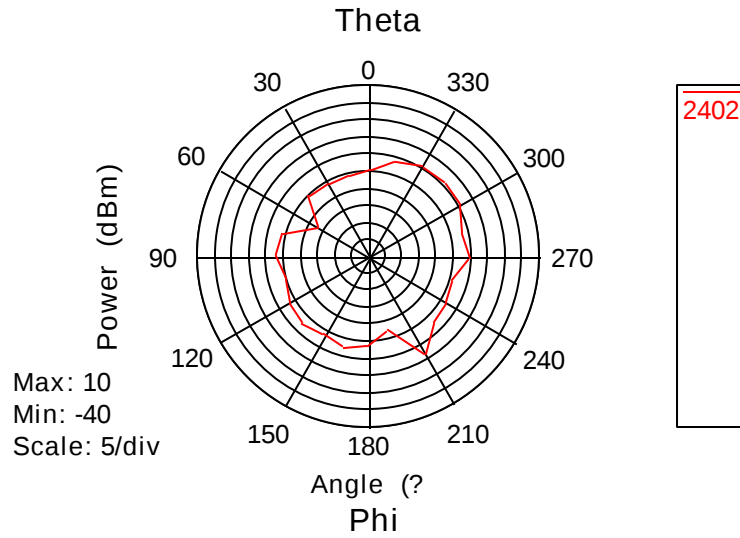
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz



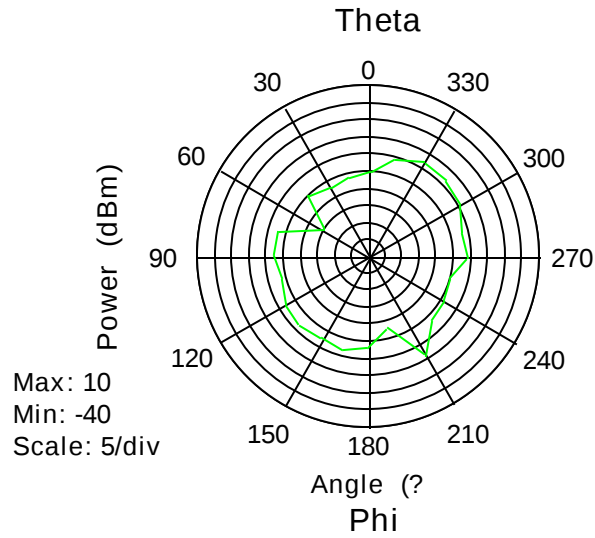
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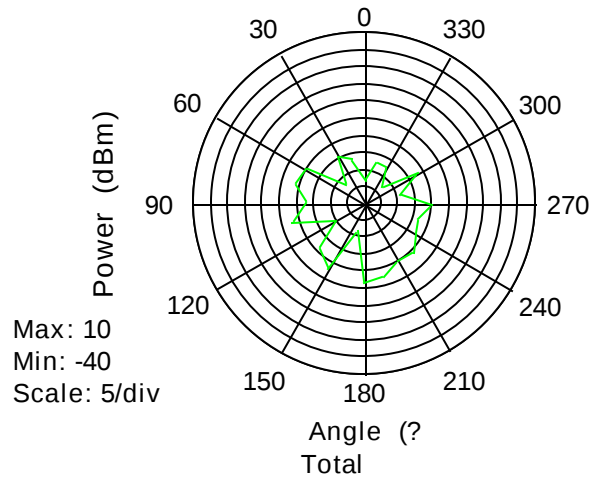
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



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

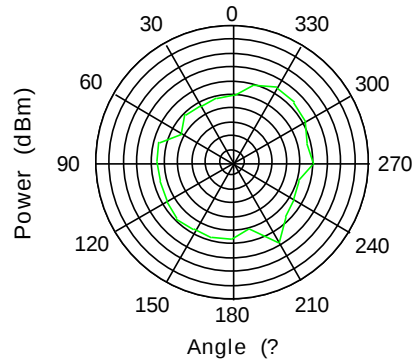


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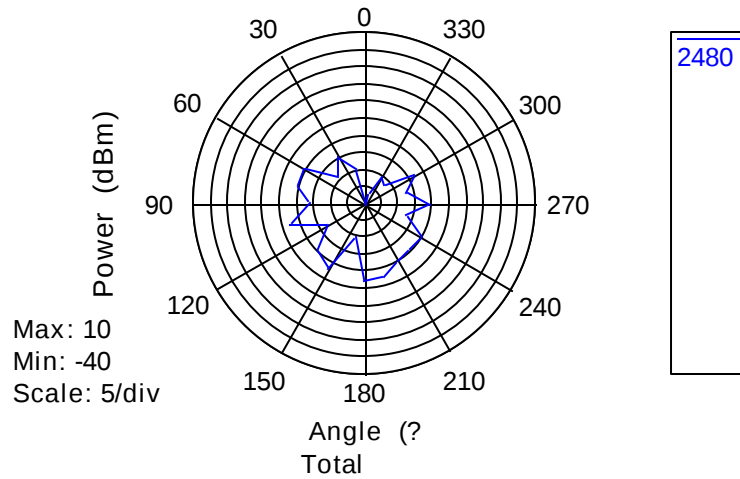
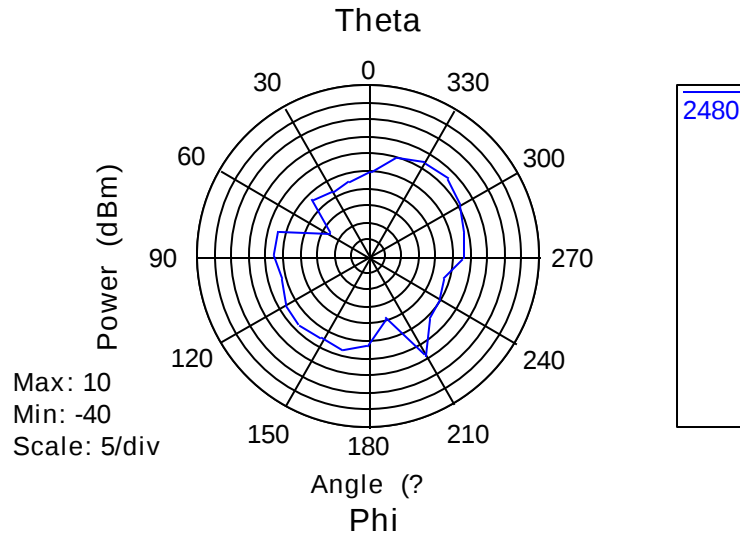
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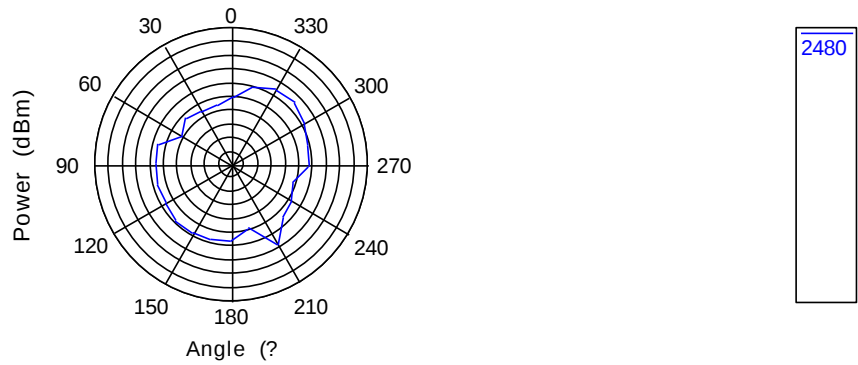


2441

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



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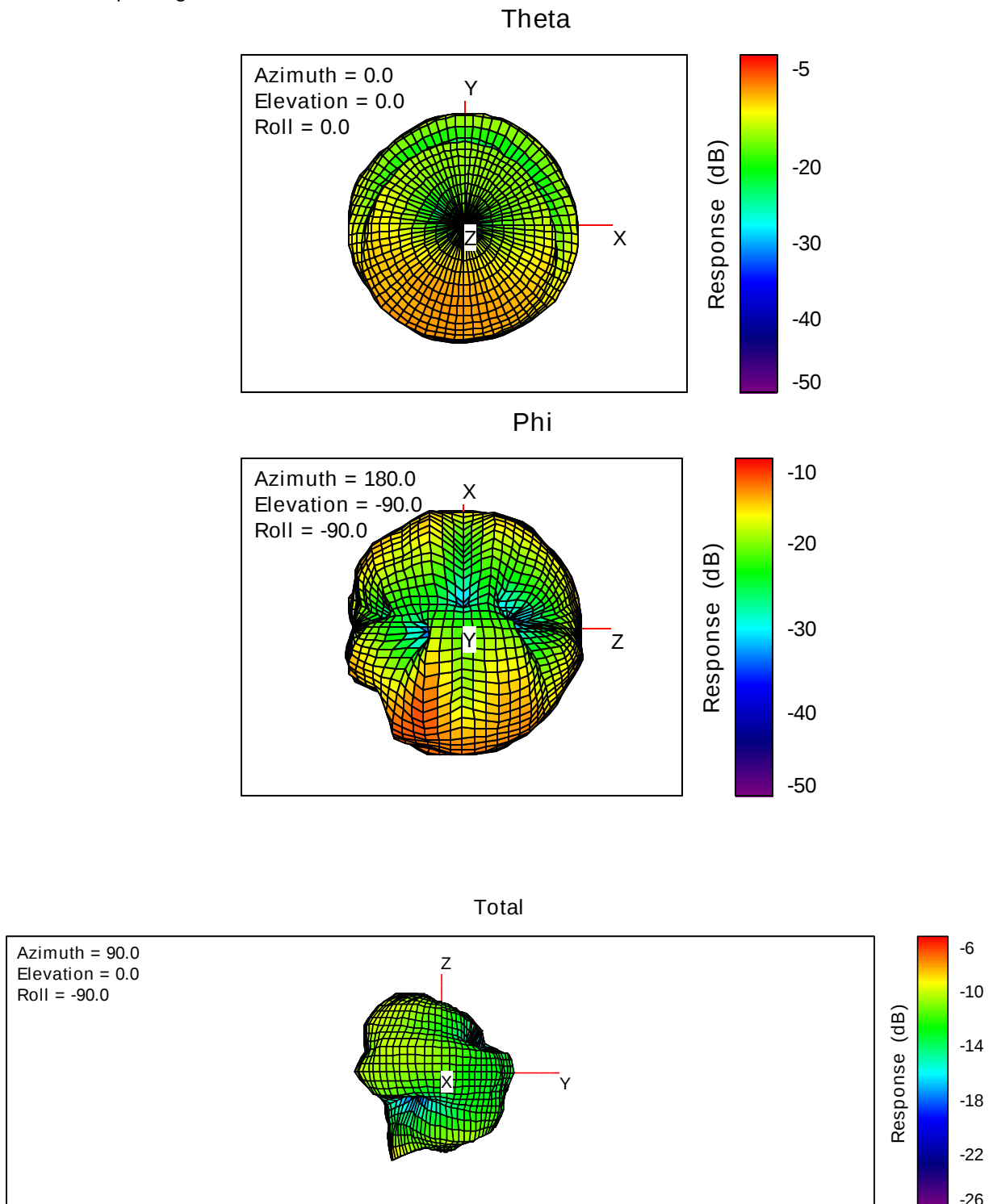


2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



5 3D TEST PLOTTING

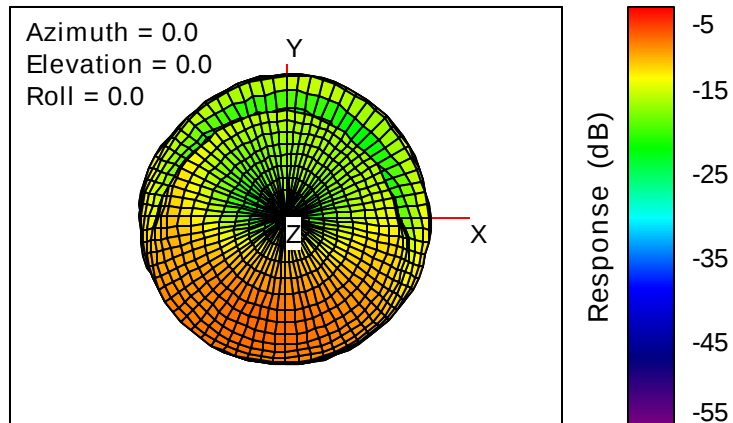
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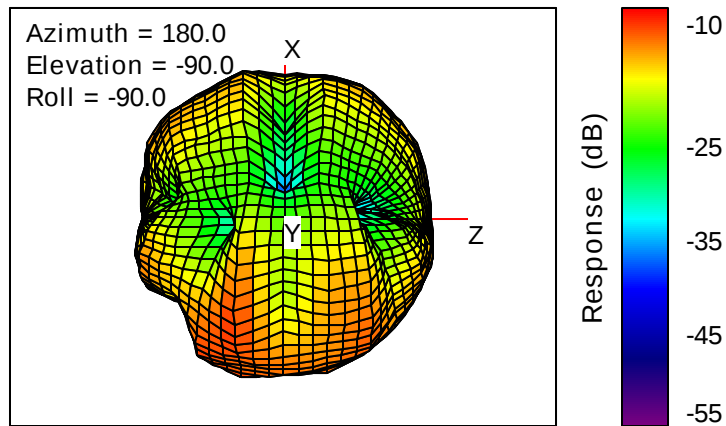
3D RDA5875Y Antenna Gain Free Space-2402MHz



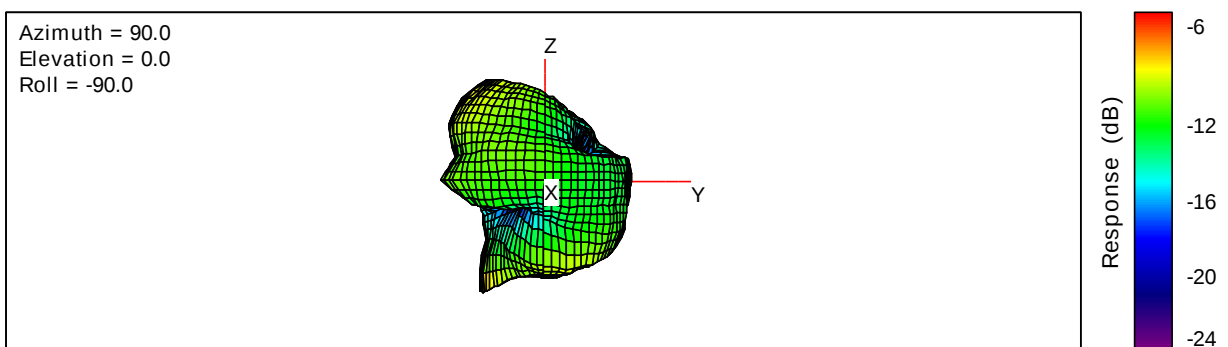
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Phi



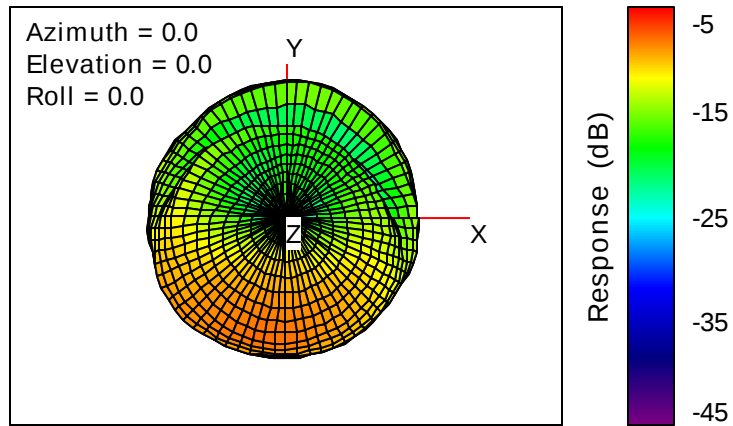
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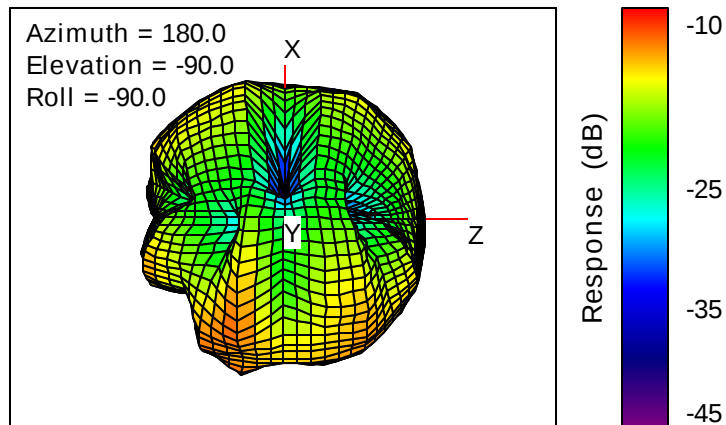
3D RDA5875Y Antenna Gain Free Space-2441MHz



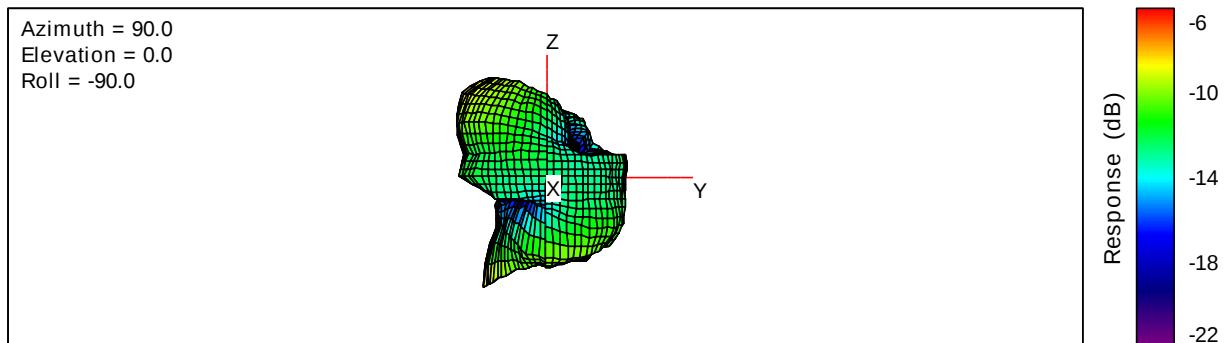
Theta



Phi



Total



3D RDA5875Y Antenna Gain Free Space-2480MHz