



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 
--------------	--	---

Note: This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document.



Revision History

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



Table Of Contents

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

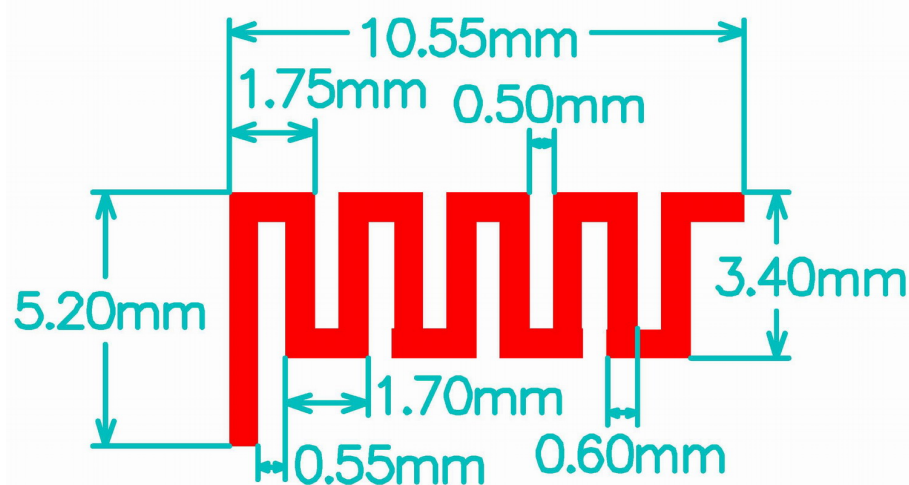


1 General Information

1.1 Description of Device Under Test (DUT)

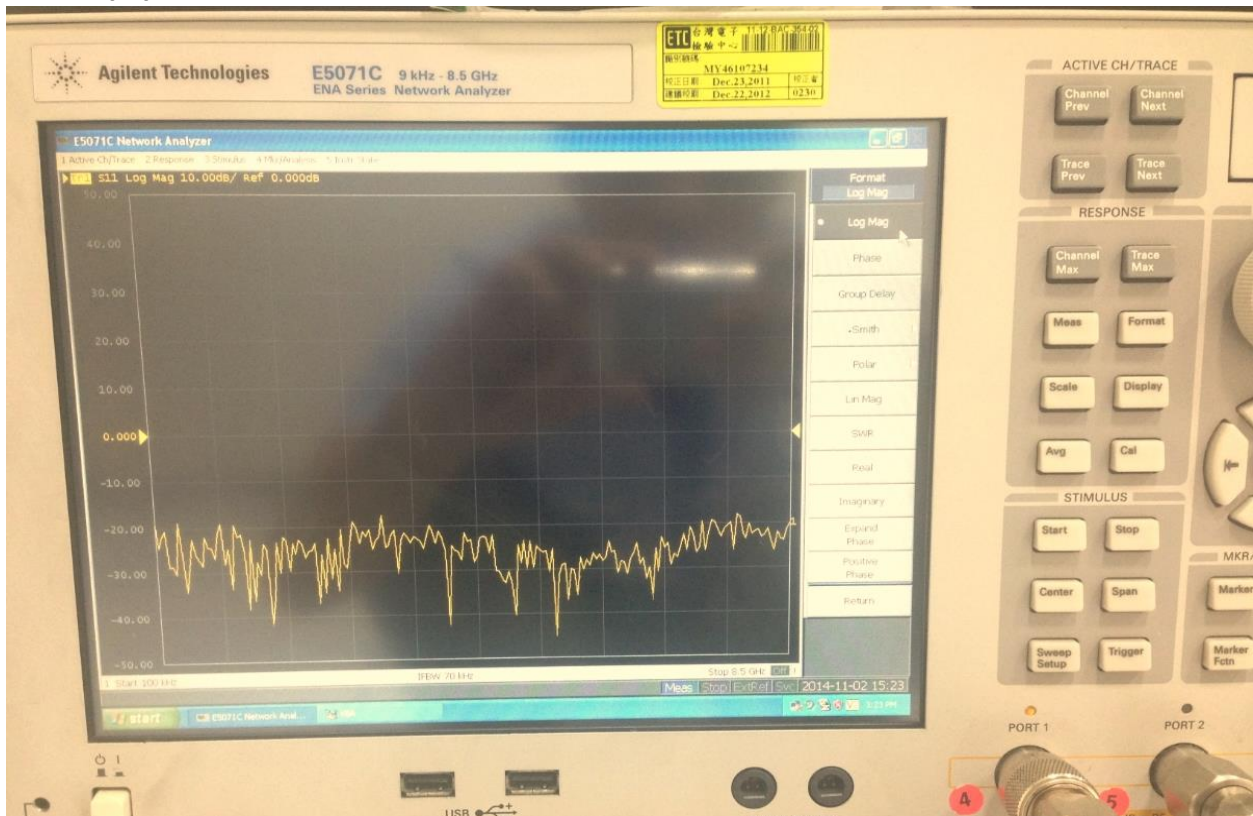
Product Feature & Specification	
Brand Name	ZEROPLUS
Model Name	RDA5875Y
Frequency	2402MHz~2480MHz

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%
-----------------	--------	--------------	-----

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



3 Description for DUT Testing Position

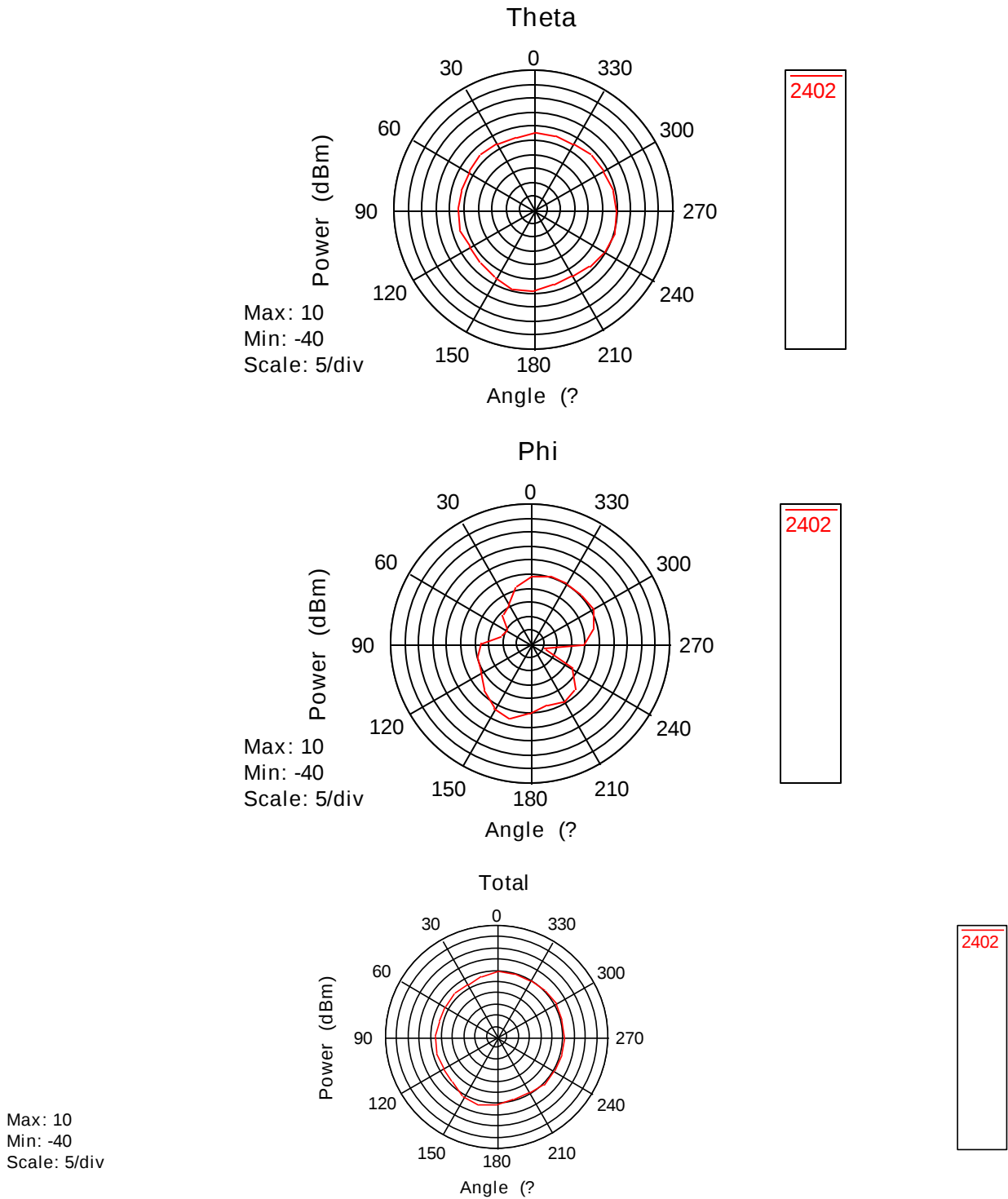


Test Position Free Space –Setup

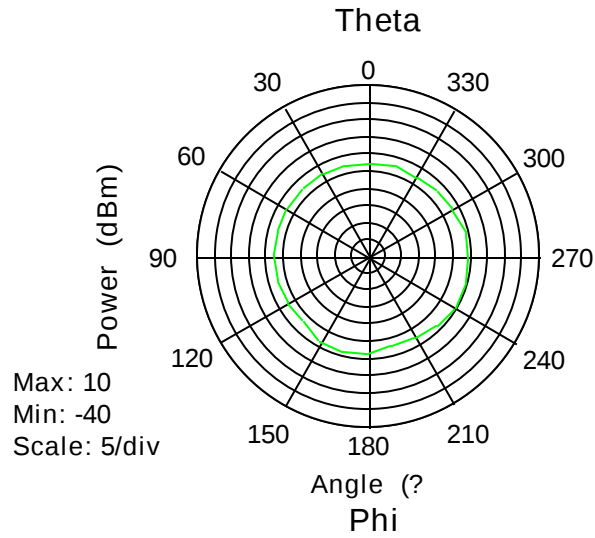


4 2D Test Plotting

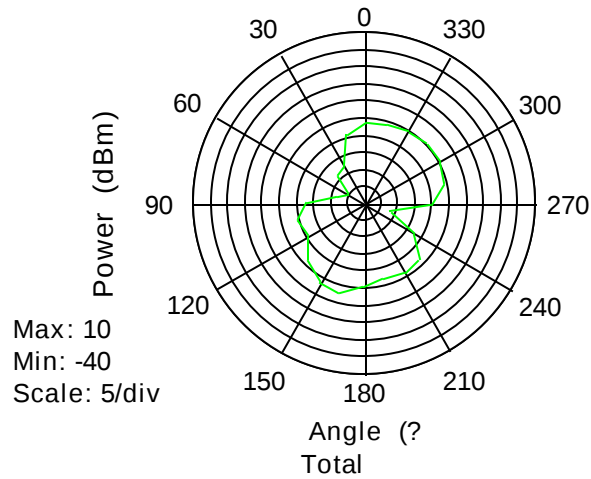
The test plotting was shown as below



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

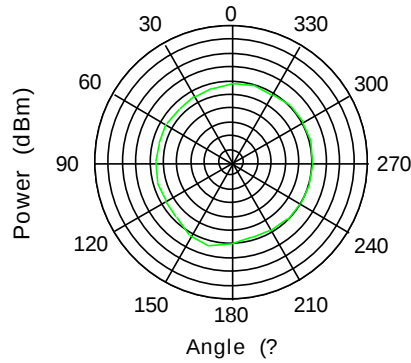


2441



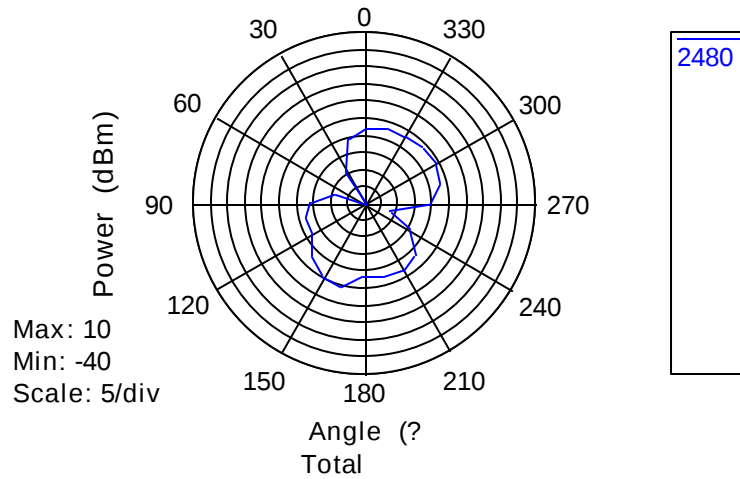
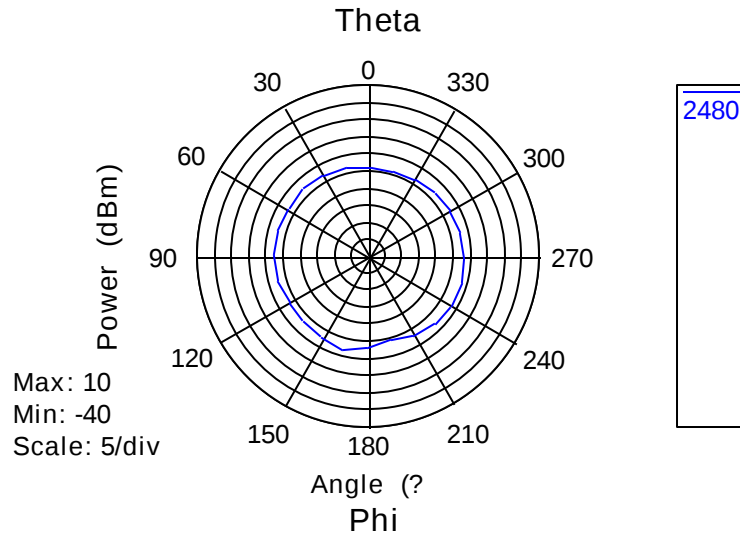
2441

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

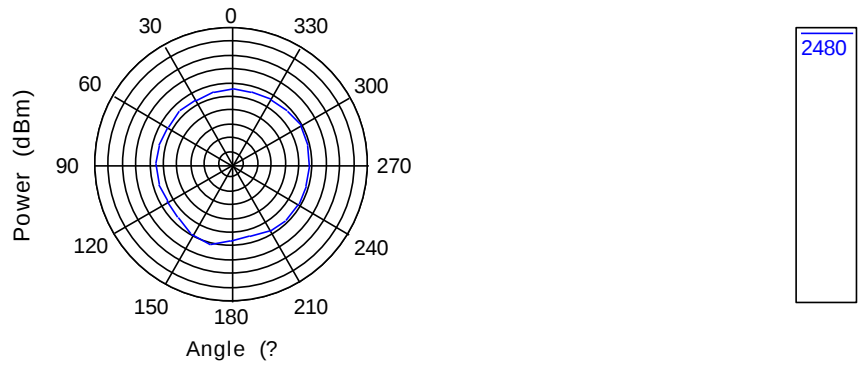


2441

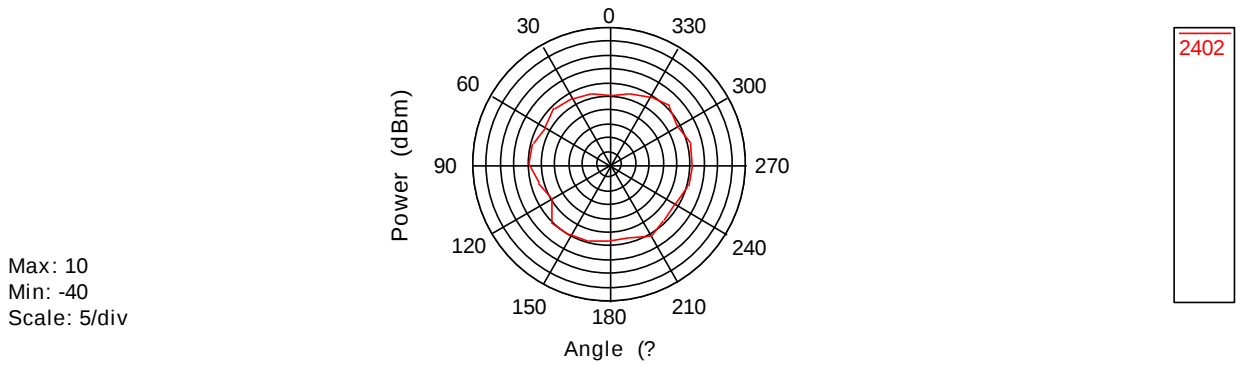
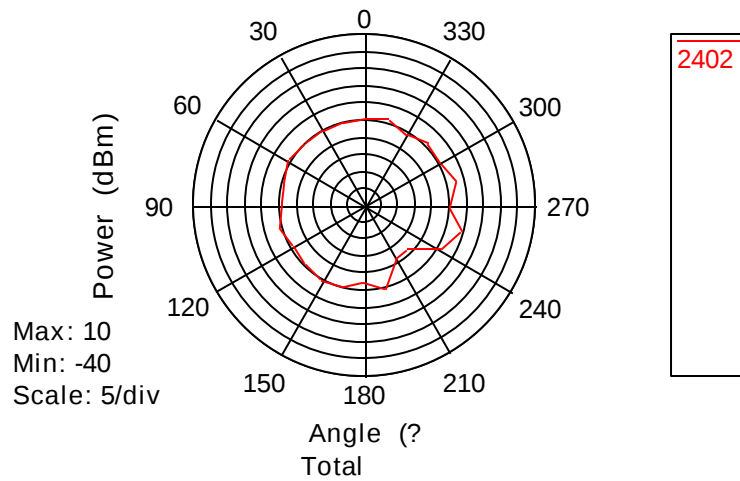
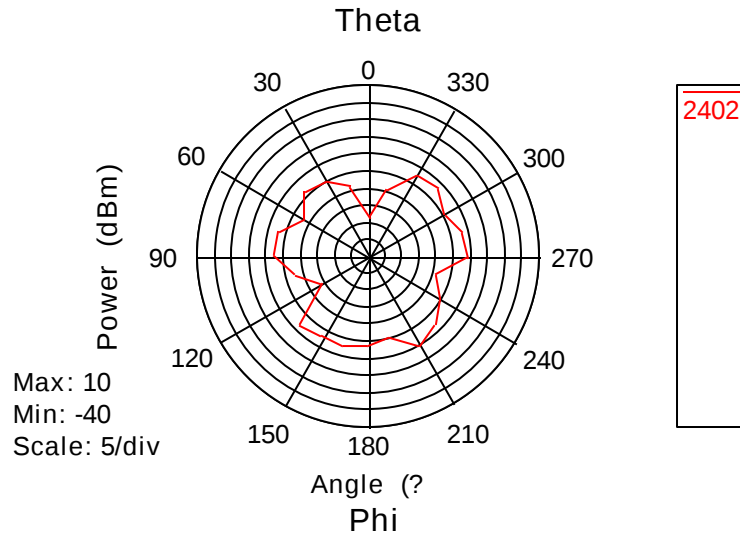
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2441MHz



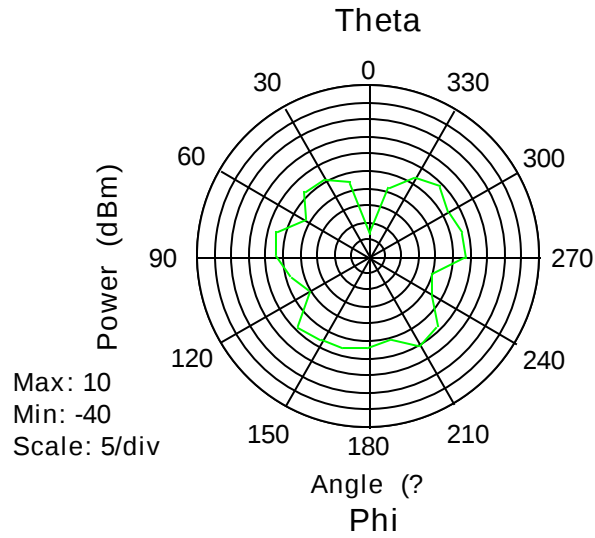
Max: 10
Min: -40
Scale: 5/div



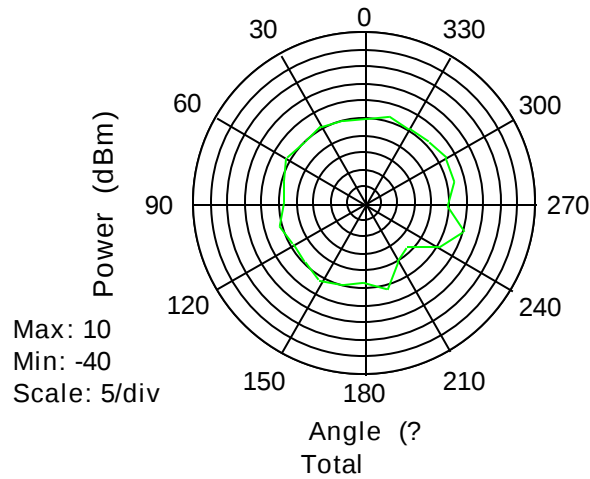
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2480MHz



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

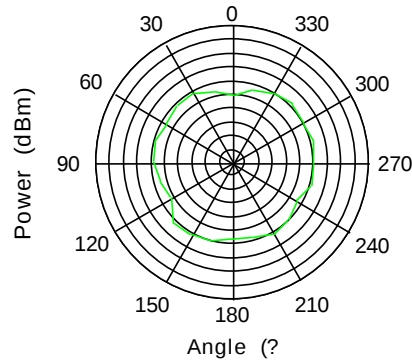


2441



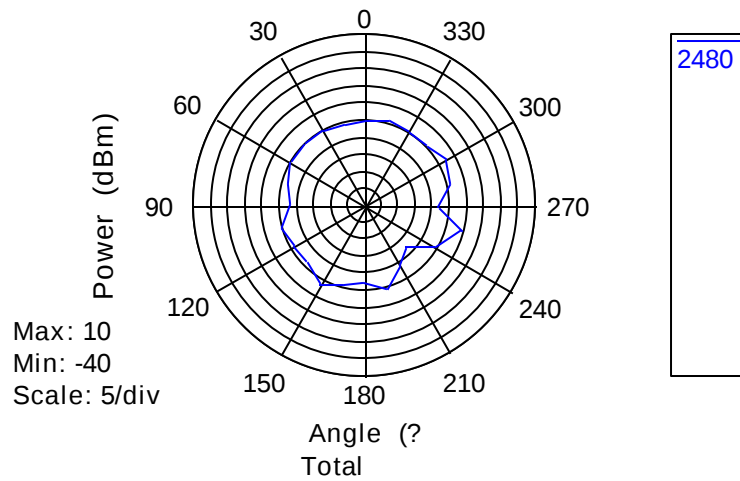
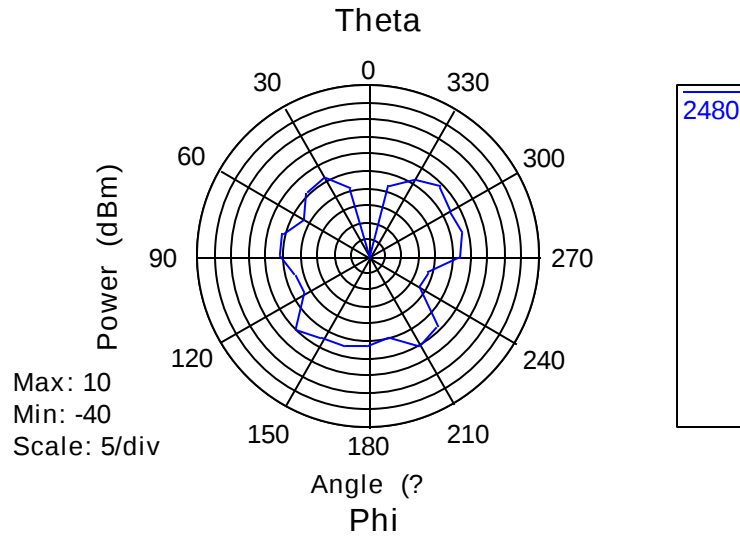
2441

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

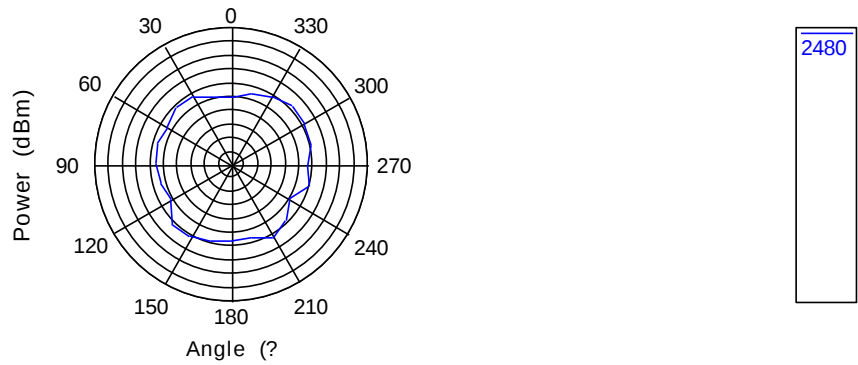


2441

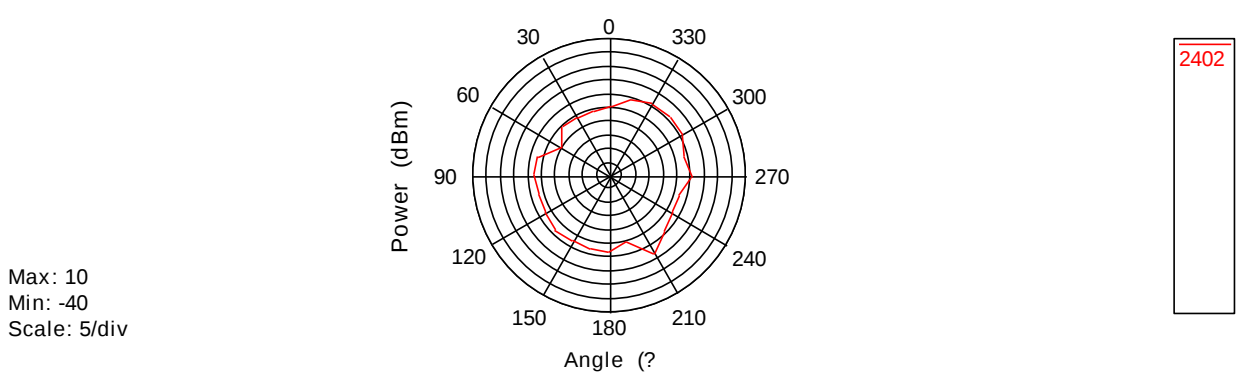
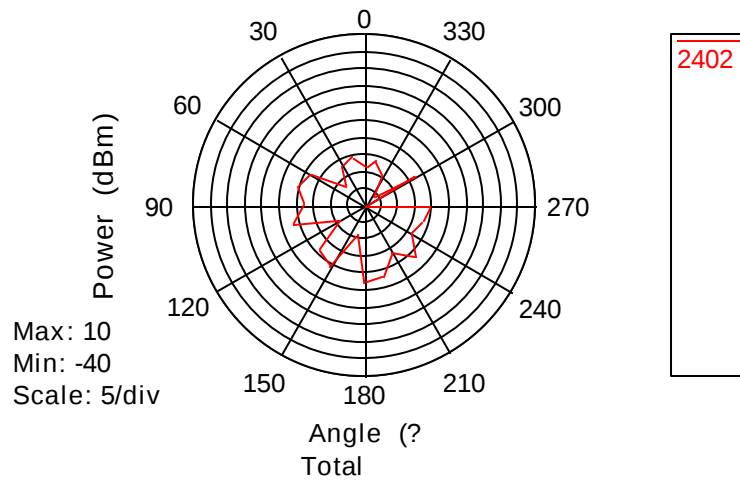
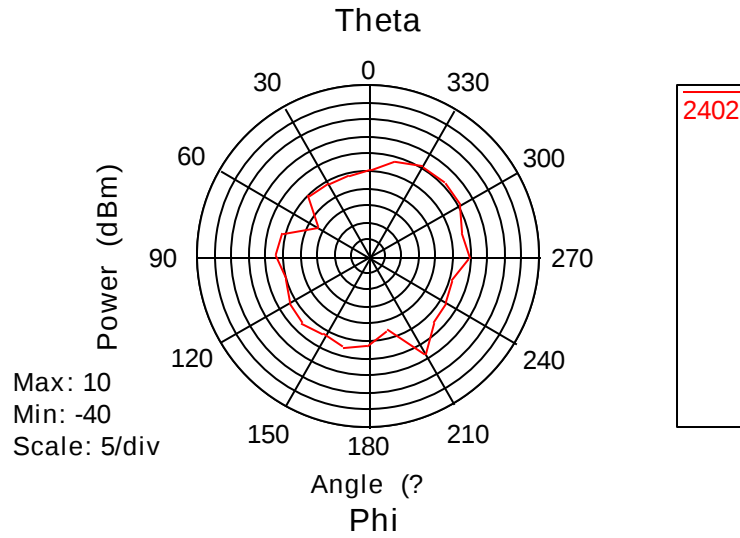
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz



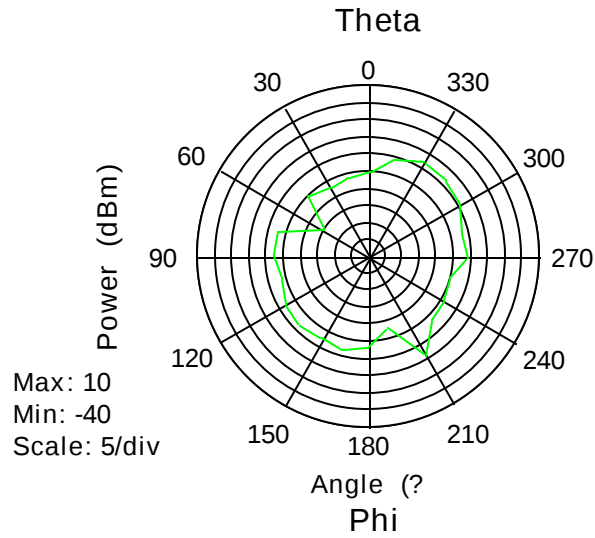
Max: 10
Min: -40
Scale: 5/div



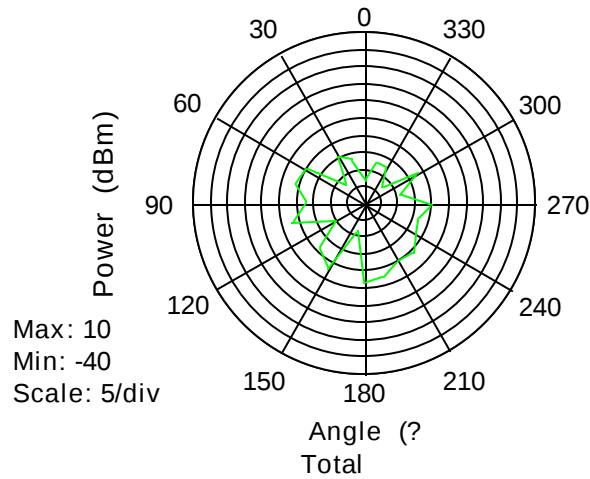
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



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

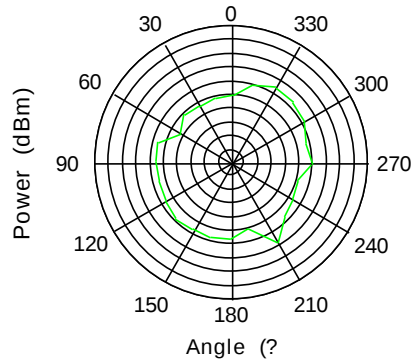


2441



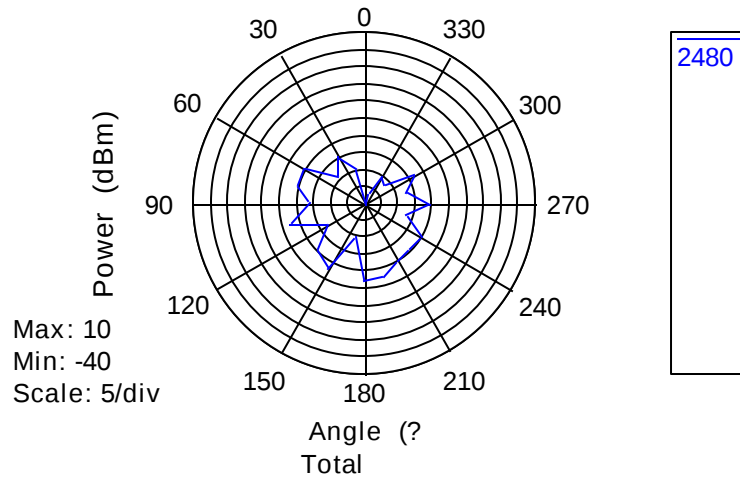
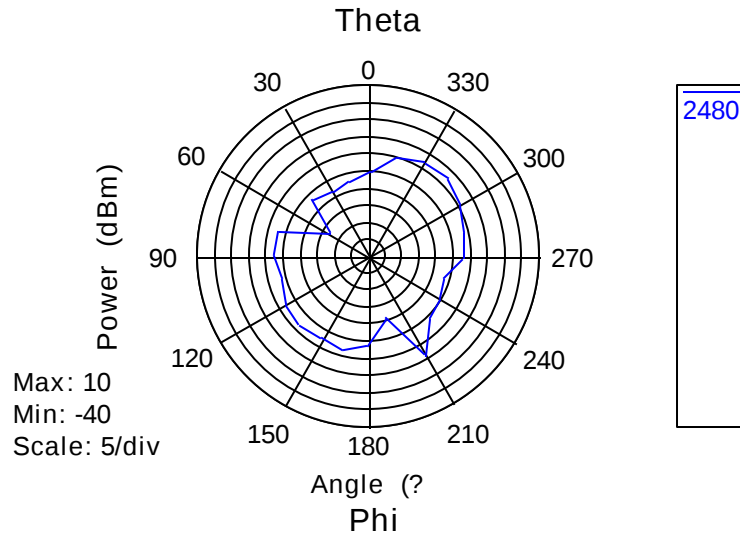
2441

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

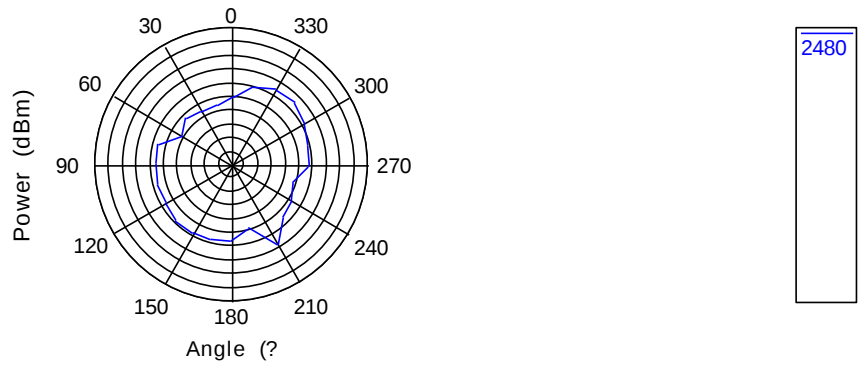


2441

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



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

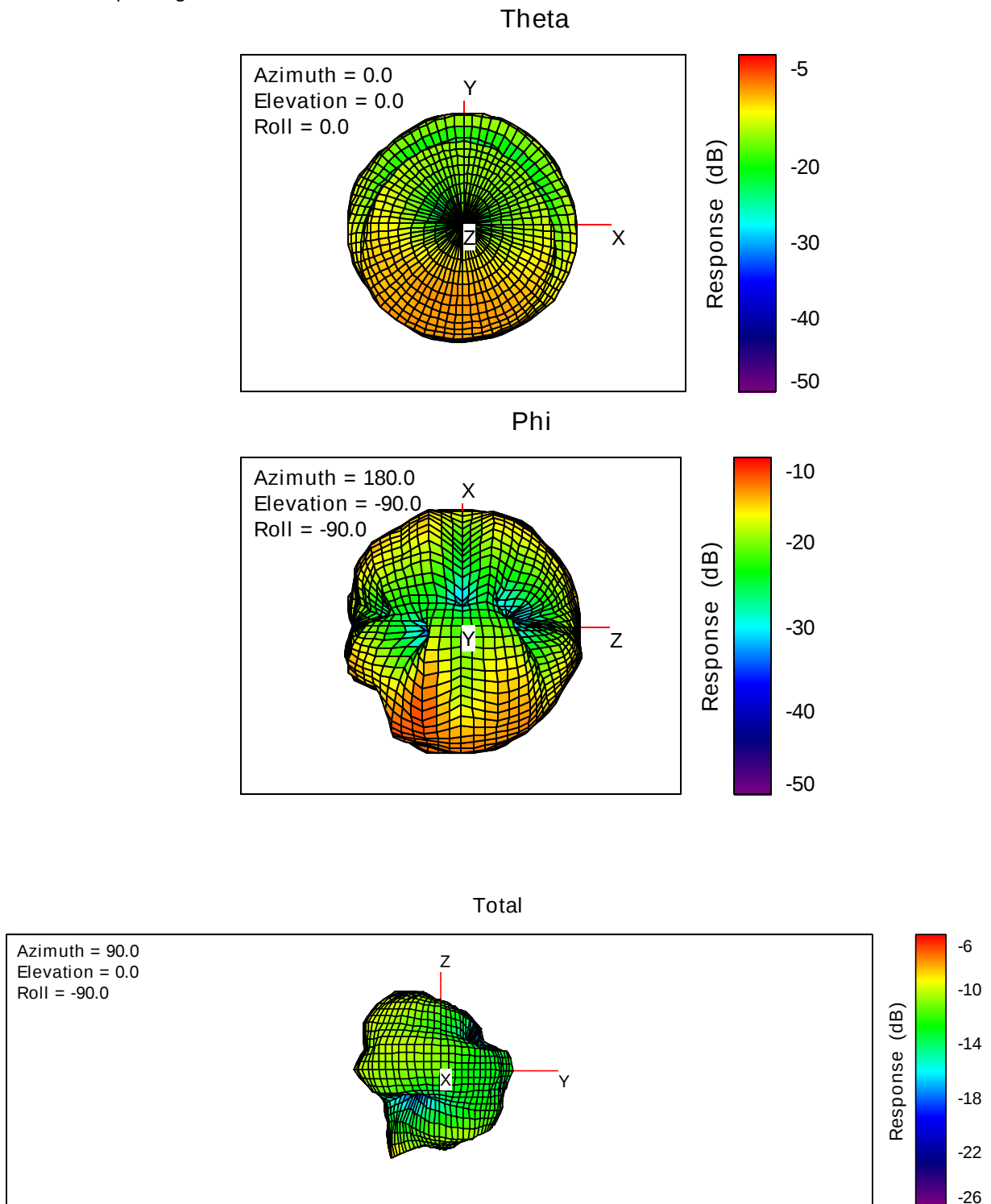


2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



5 3D TEST PLOTTING

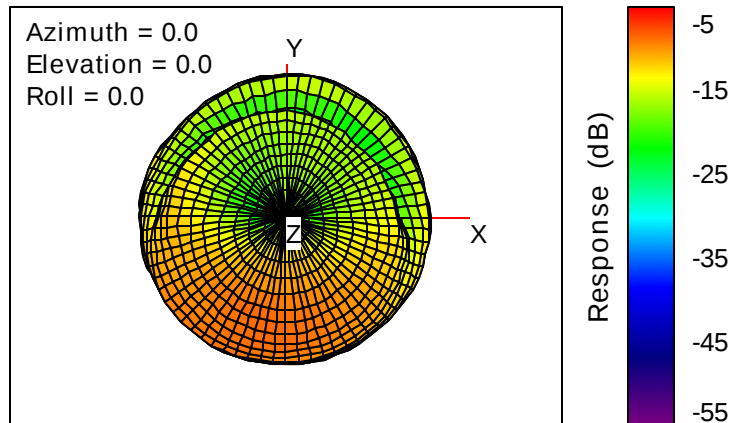
The test plotting was shown as below



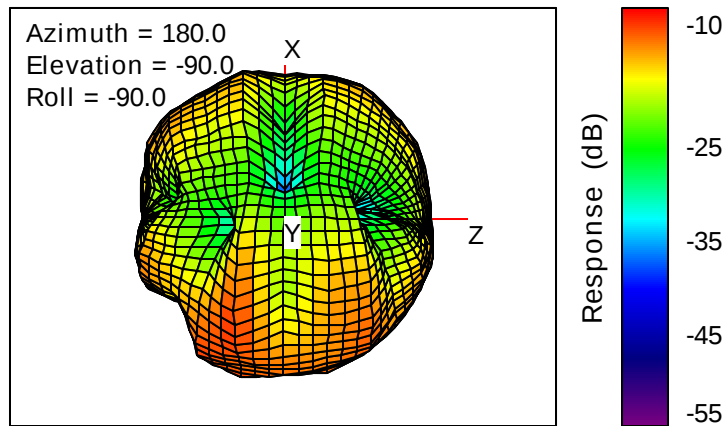
3D RDA5875Y Antenna Gain Free Space-2402MHz



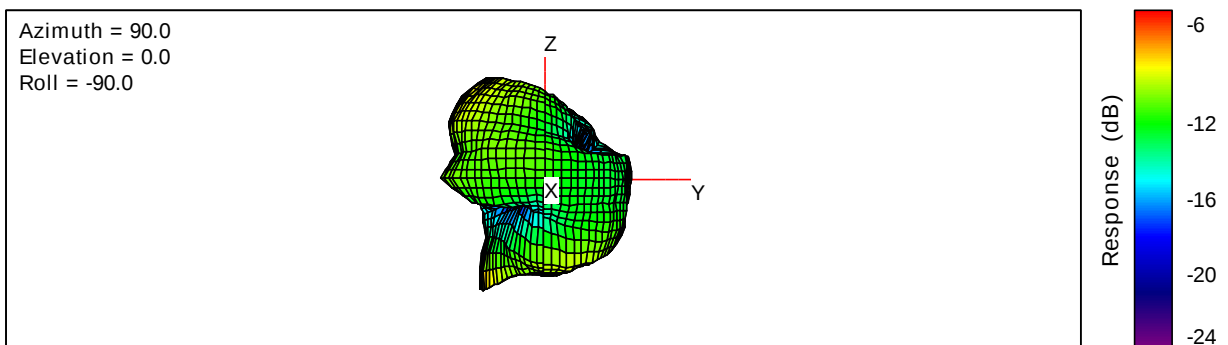
Theta



Phi



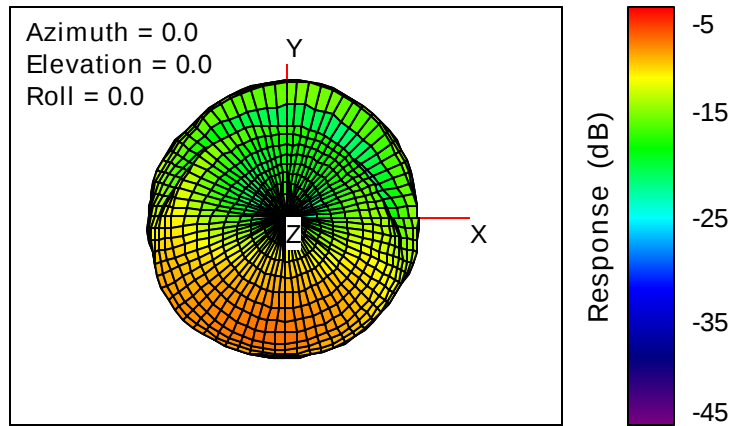
Total



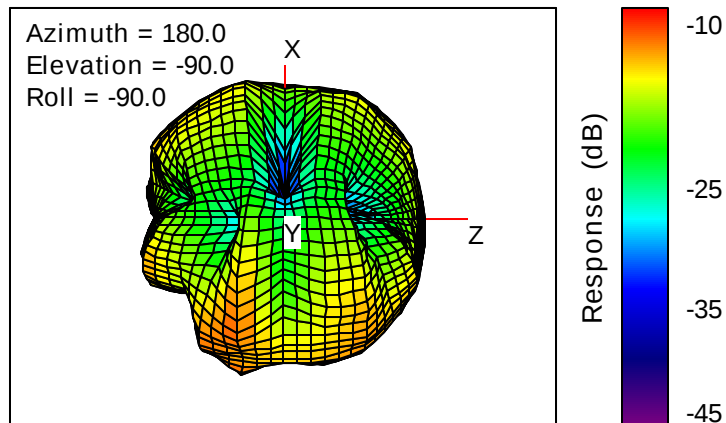
3D RDA5875Y Antenna Gain Free Space-2441MHz



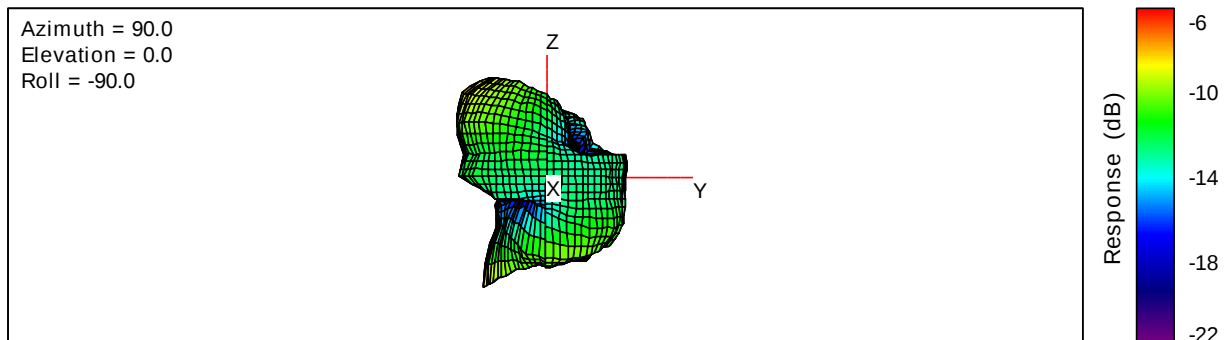
Theta



Phi



Total



3D RDA5875Y Antenna Gain Free Space-2480MHz