



传佳音 2819天线增益报告

Antenna Design And Test Report

工程：王志锋

报告日期：2023年2月4日星期六



目录

CONTENTS

01

项目概述

Project Overview

02

测试环境

Test Environment

03

匹配电路

Matching Circuit

04

环境处理

Environmental
Treatment

05

无源报告

Passive Report

06

总结

Conclusion

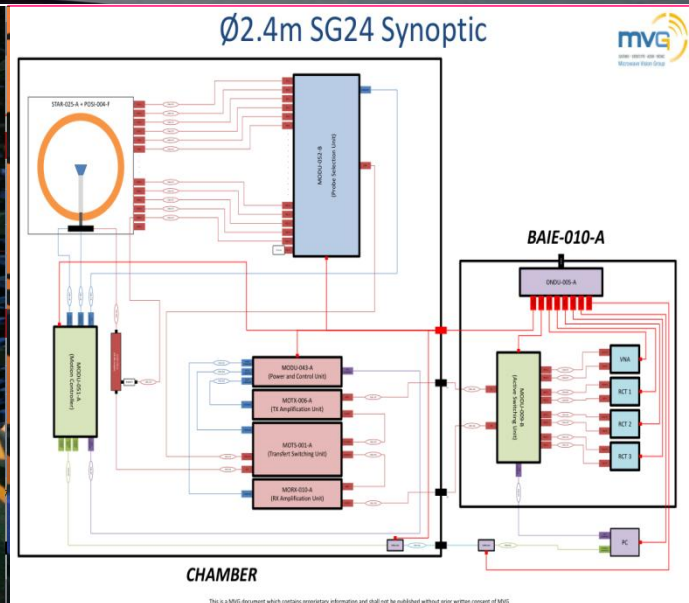
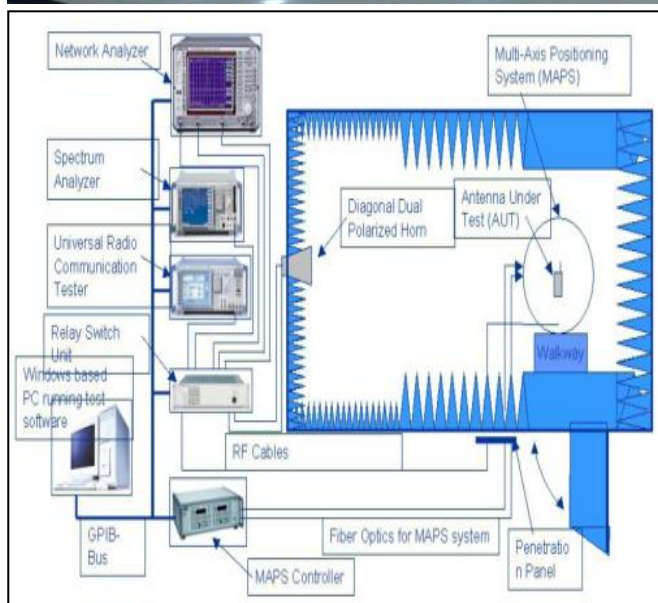
07

附加说明

Additional Notes



主天线设计频段: main antenna design spectrum	2G:900/1800/850/1900 3G: W2/W4/W5/W8 4G:B2/B4/B5/B7/B28/B66
天线类型: Type of antenna	PIFA



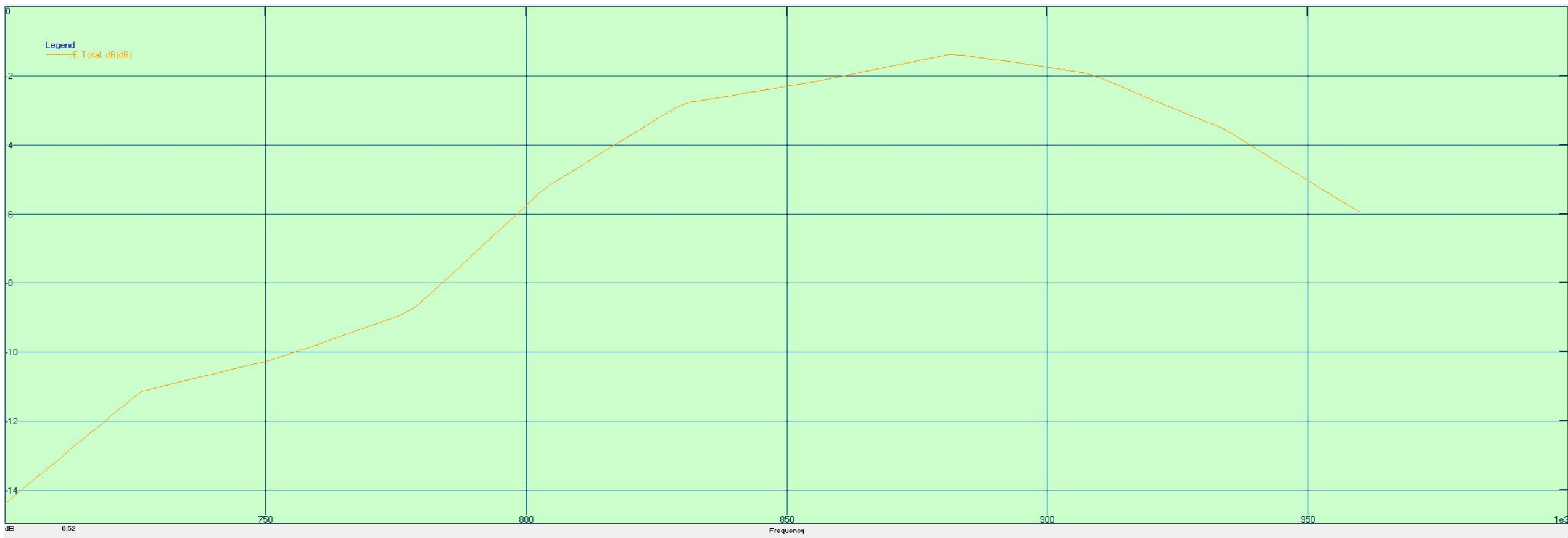
3座远场3D全电波微波暗室实验室系统，1座MVG SG24LT（Satmio）近场3D微波暗室实验室系统（与国家相关实验室同步）



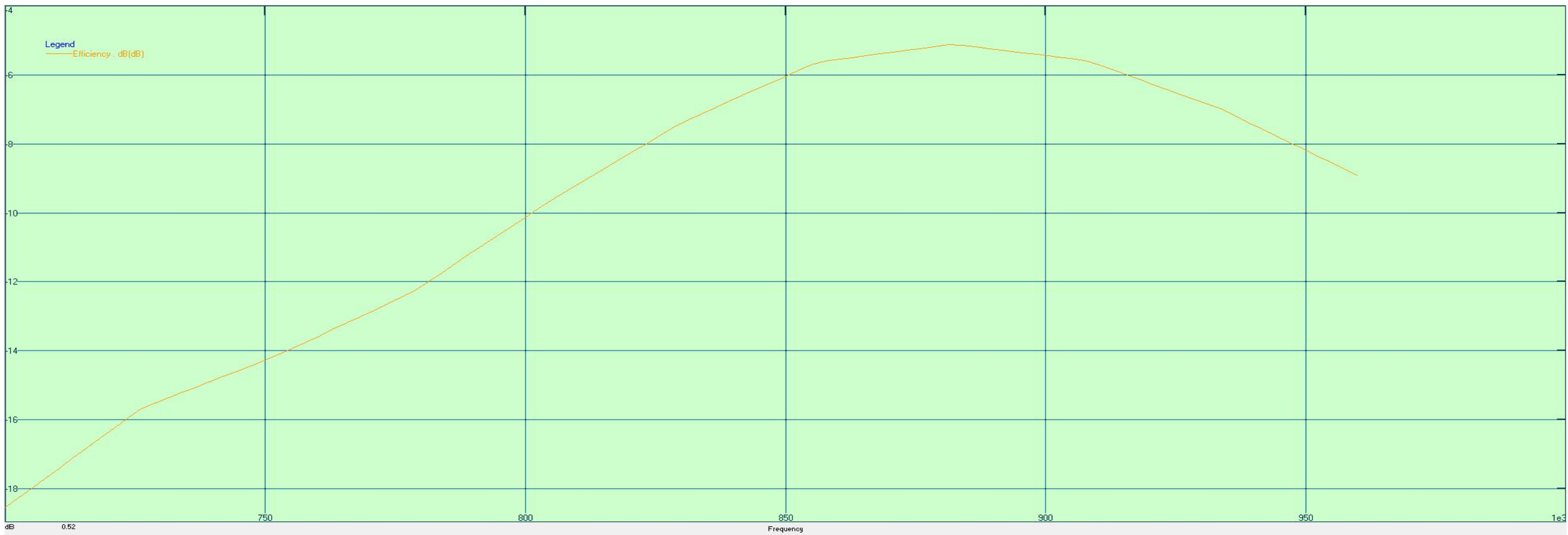
Frequency	Gain . dB
7E+08	-14.3927
7.26E+08	-11.14
7.52E+08	-10.1945
7.78E+08	-8.81011
8.04E+08	-5.19485
8.3E+08	-2.79977
8.56E+08	-2.1411
8.82E+08	-1.34616
9.08E+08	-1.92824
9.34E+08	-3.54228
9.6E+08	-5.95558



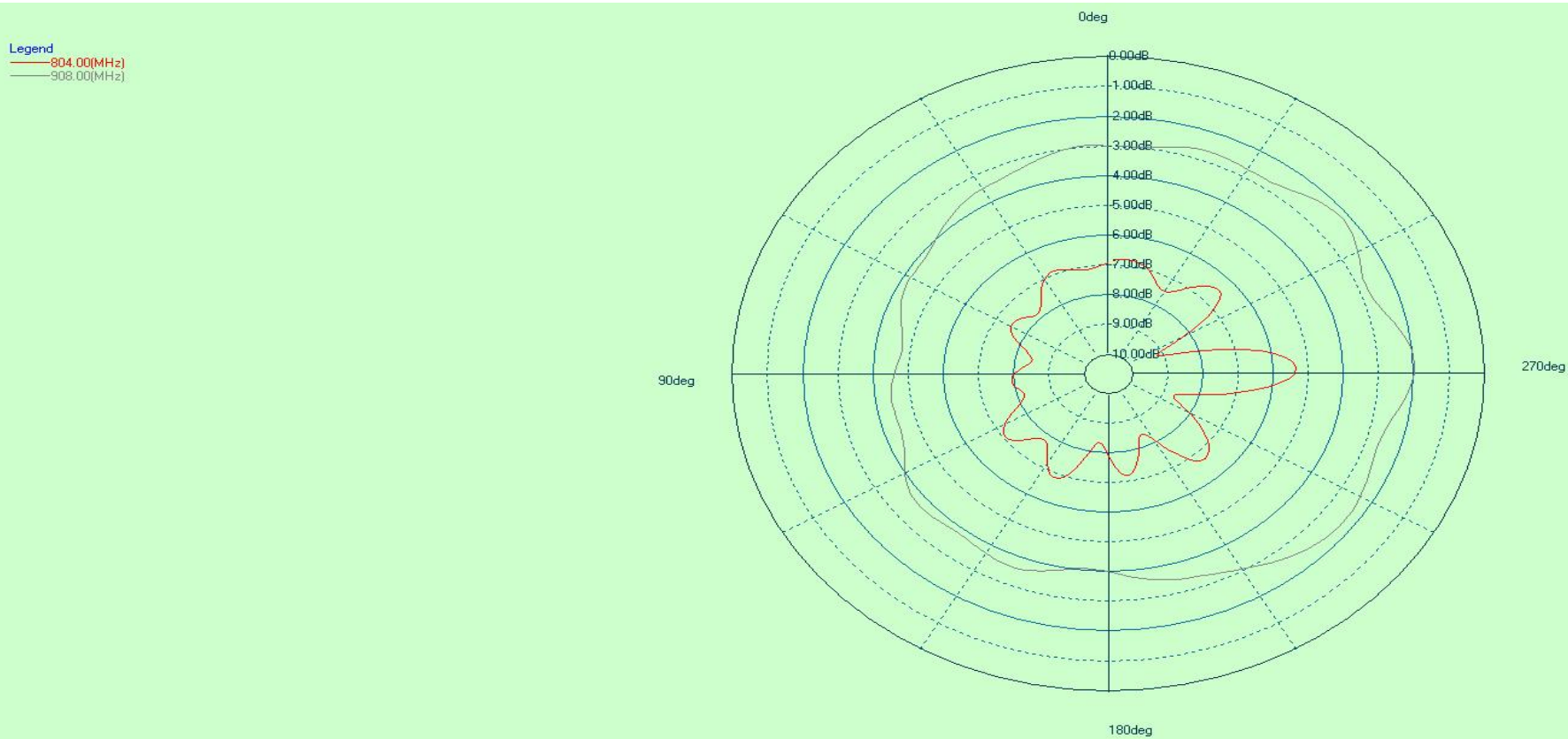
700MHZ-960MHZ



700MHZ-960MHZ

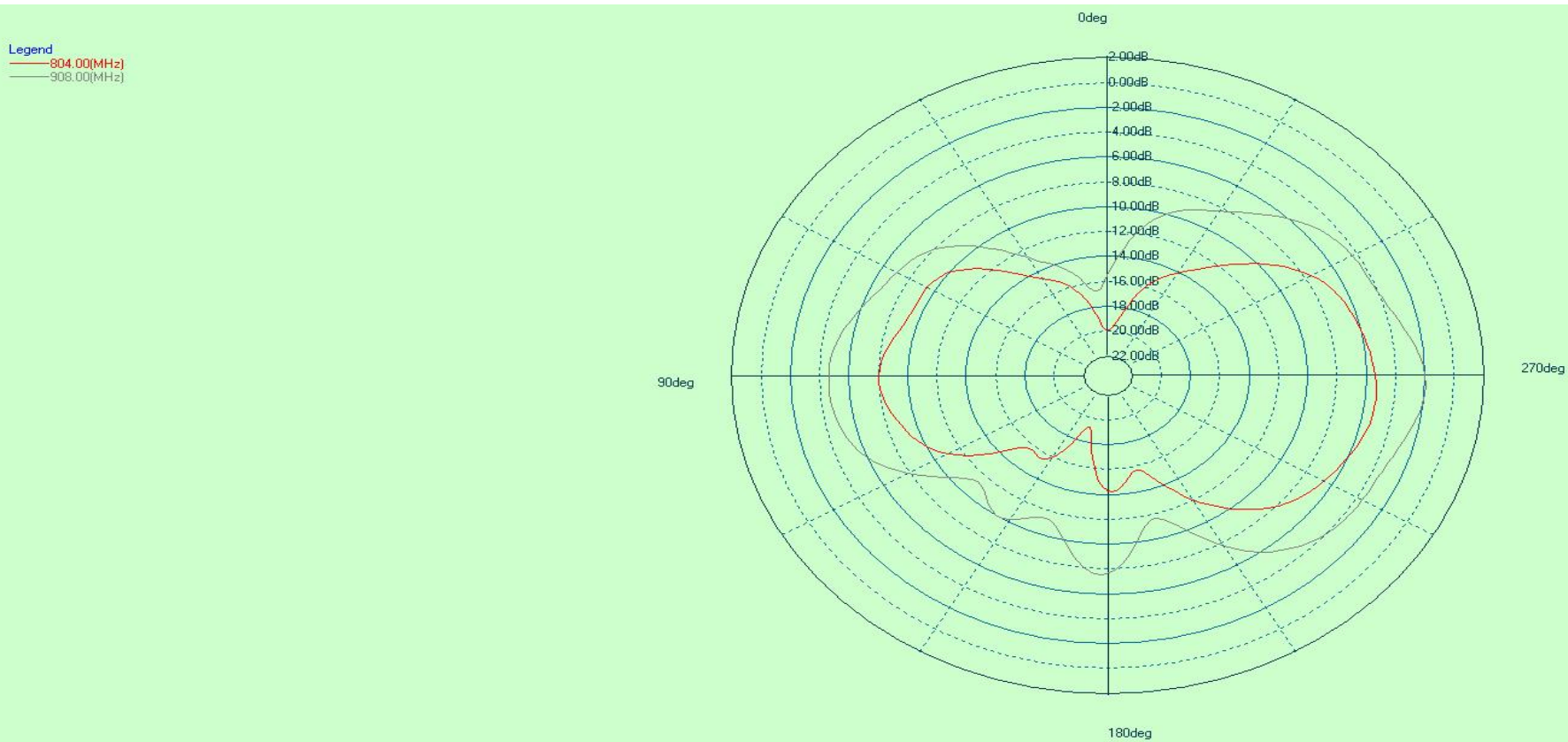


700MHZ-960MHZ



XY-Plane

700MHZ-960MHZ



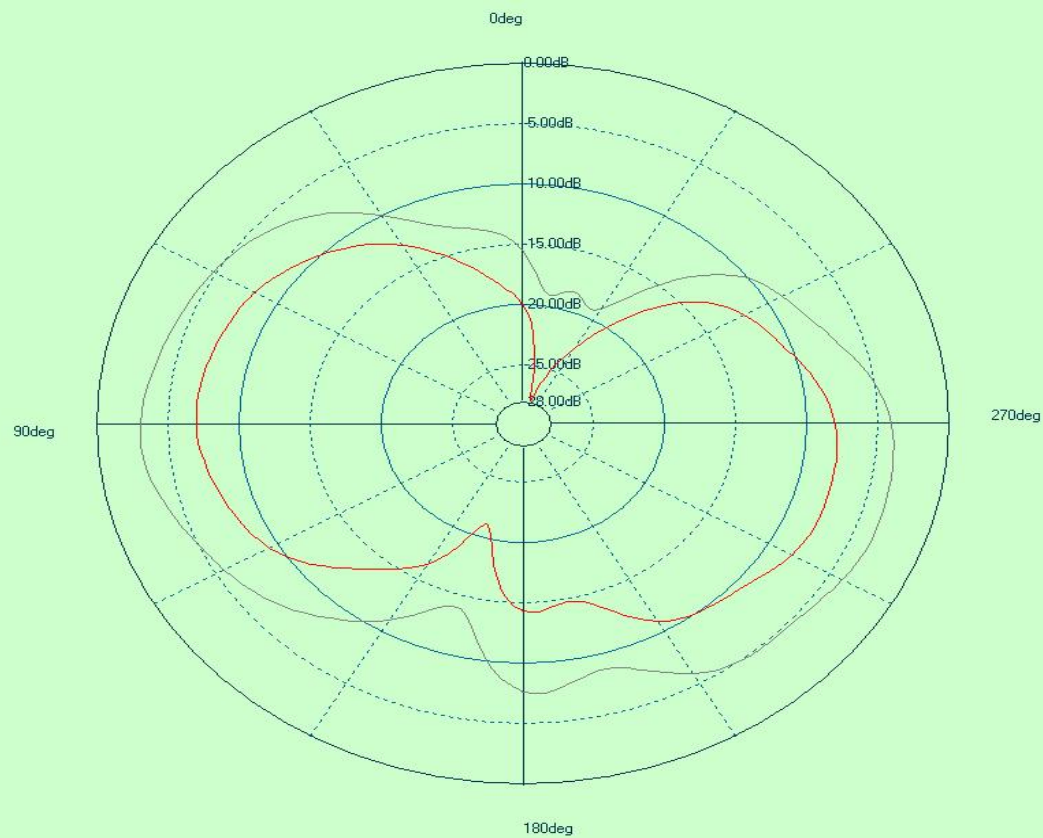
XZ-Plane

700MHZ-960MHZ

Legend

804.00(MHz)

908.00(MHz)

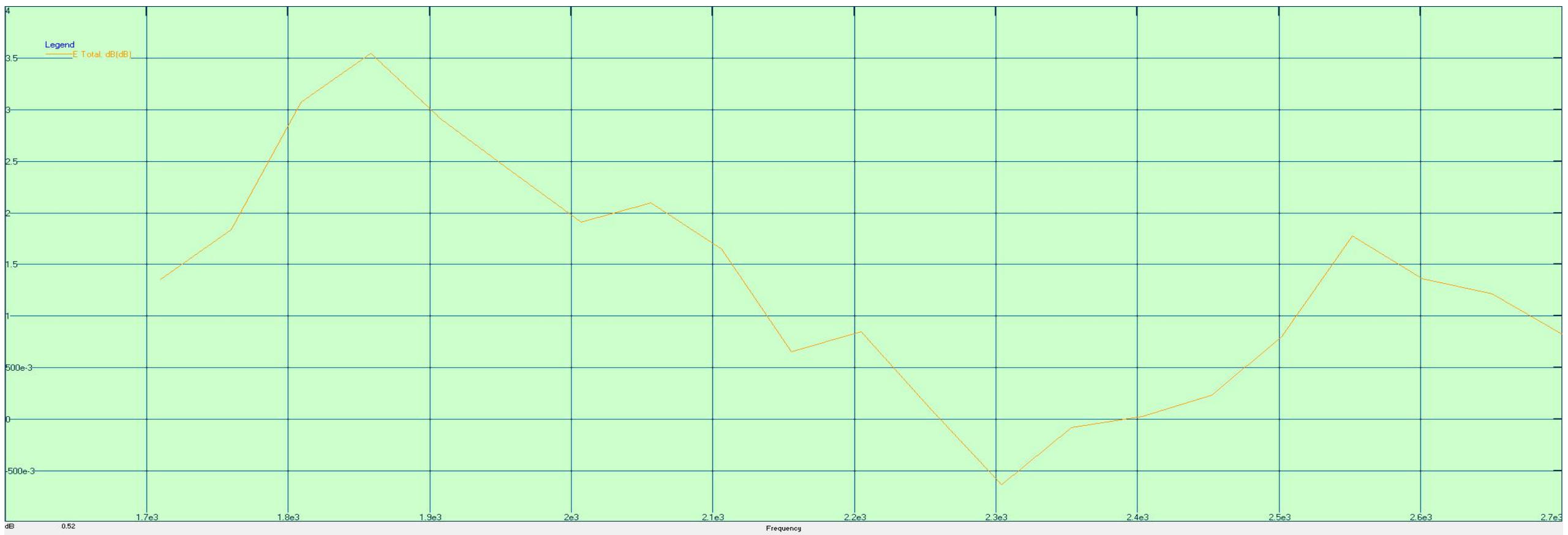


YZ-Plane



Frequency	Gain . dB
1.71E+09	1.354139
1.76E+09	1.840772
1.81E+09	3.076513
1.86E+09	3.548946
1.91E+09	2.904071
1.96E+09	2.408366
2.01E+09	1.907784
2.06E+09	2.100867
2.11E+09	1.651927
2.16E+09	0.657291
2.21E+09	0.847417
2.25E+09	0.08596
2.3E+09	-0.63807
2.35E+09	-0.08233
2.4E+09	0.022881
2.45E+09	0.232008
2.5E+09	0.800276
2.55E+09	1.776968
2.6E+09	1.363984
2.65E+09	1.217604
2.7E+09	0.821132

1710MHZ-2700MHZ

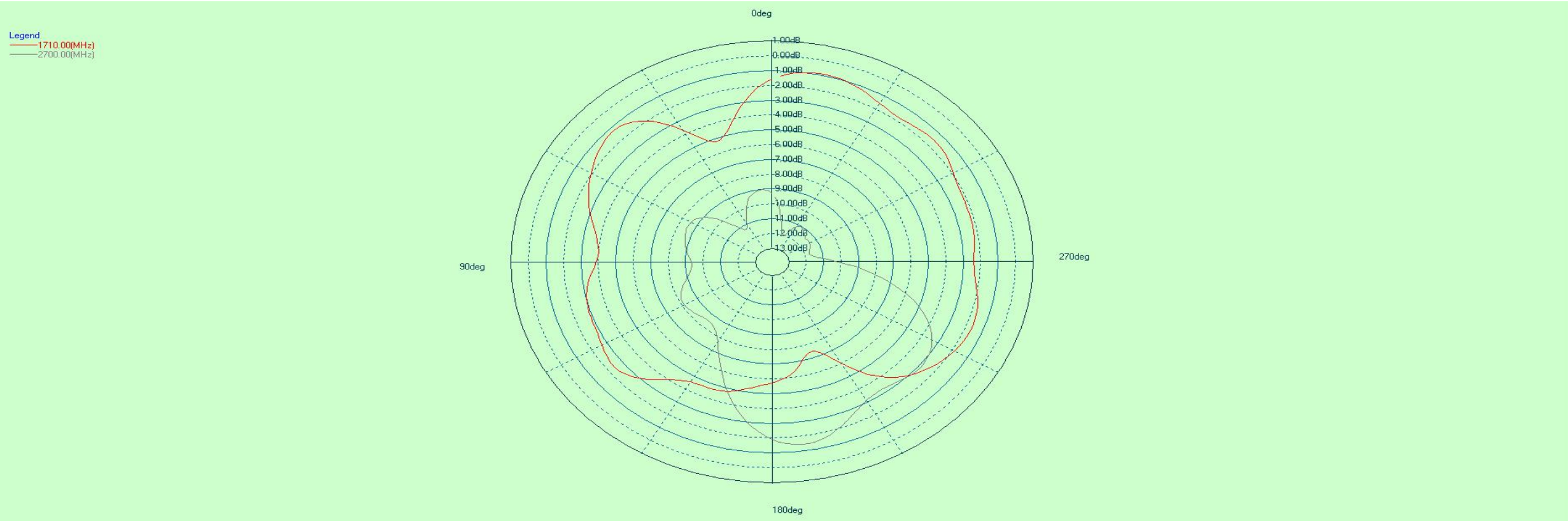




1710MHZ-2700MHZ

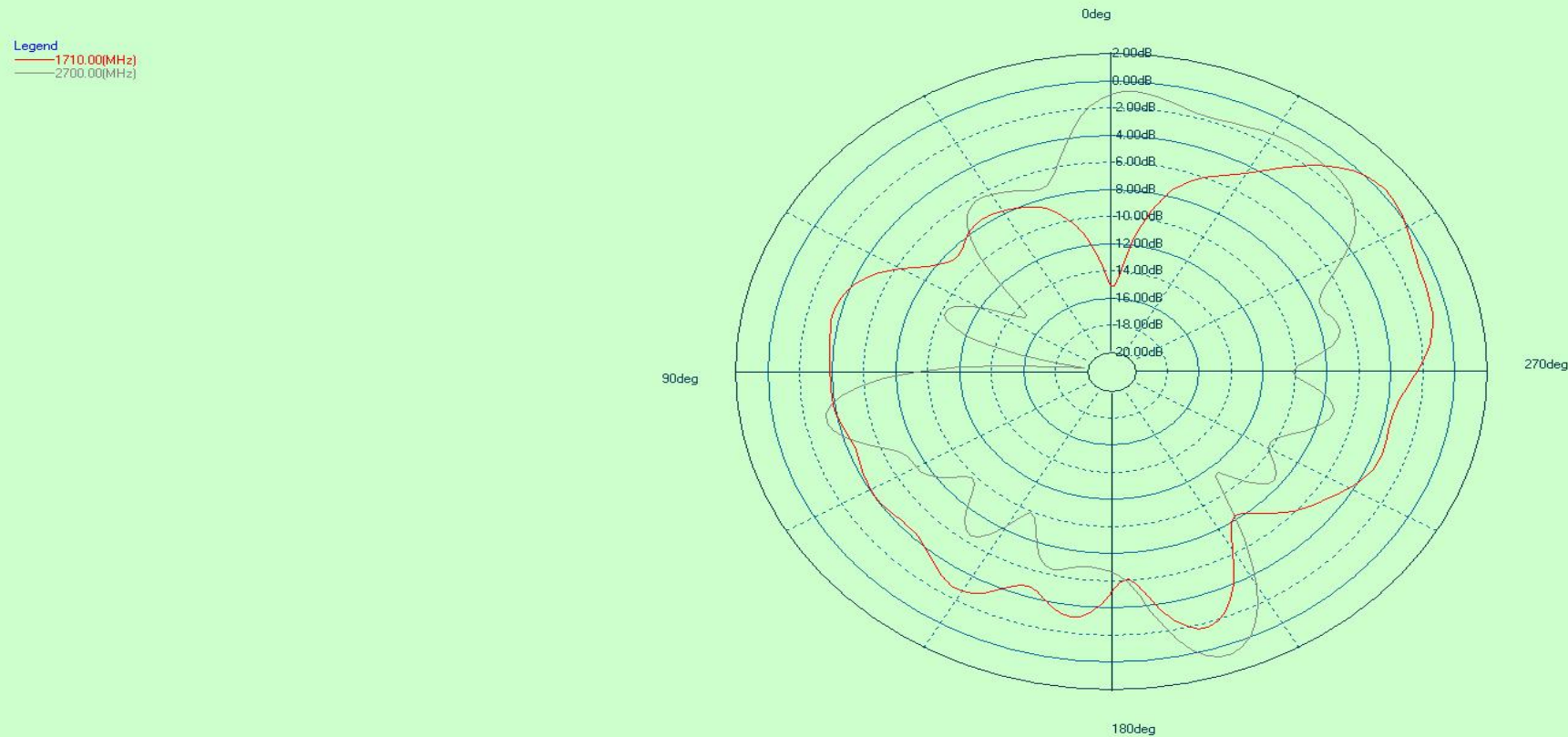


1710MHZ-2700MHZ



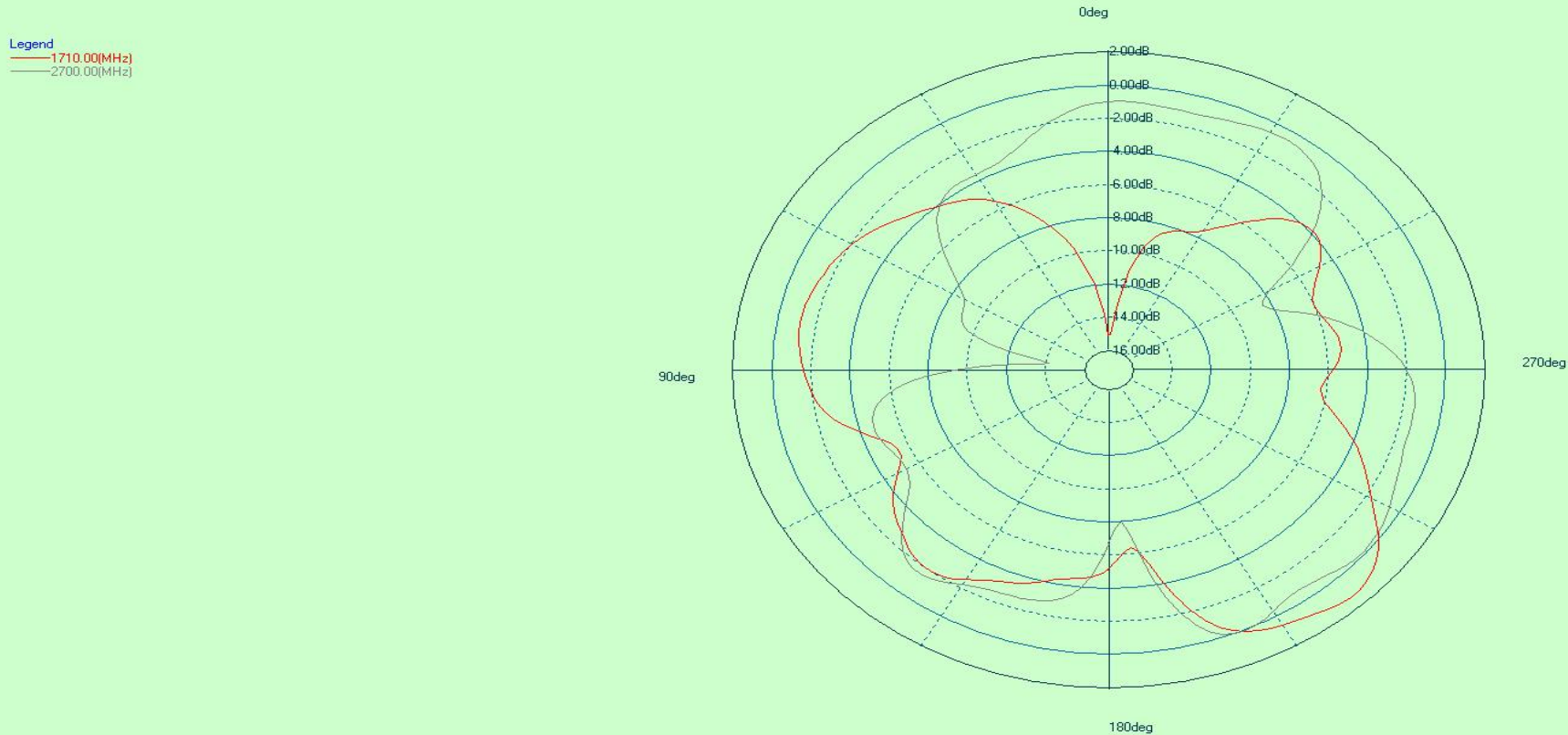
XY-Plane

1710MHZ-2700MHZ



XZ-Plane

1710MHZ-2700MHZ



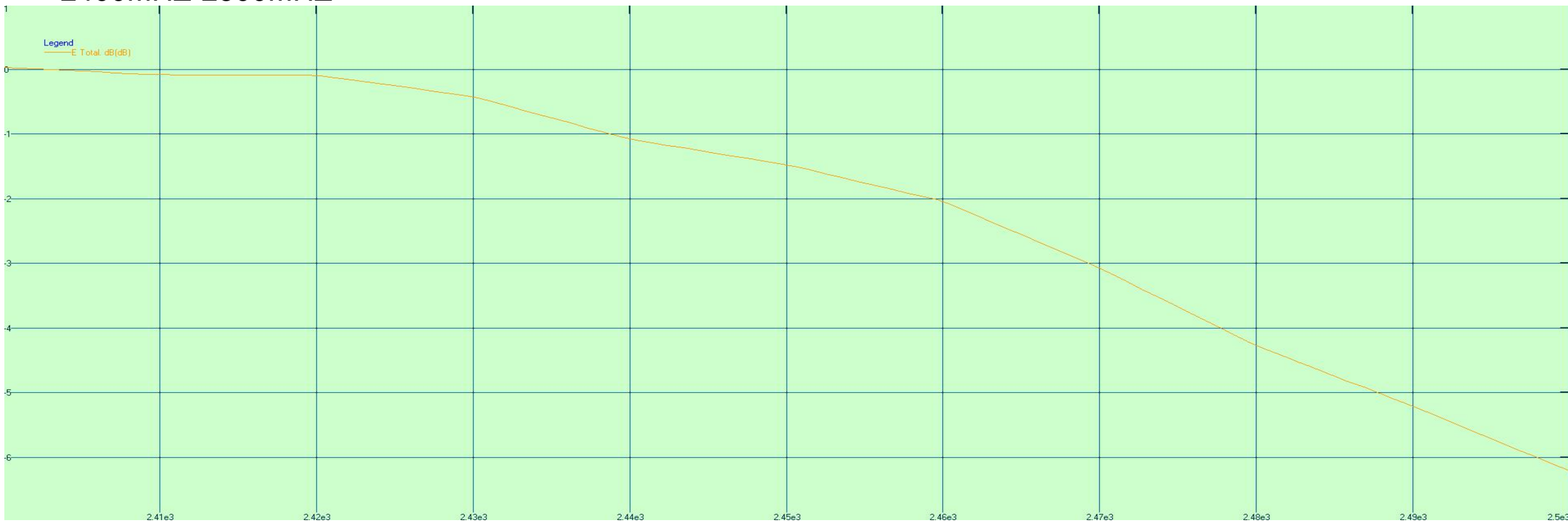
YZ-Plane



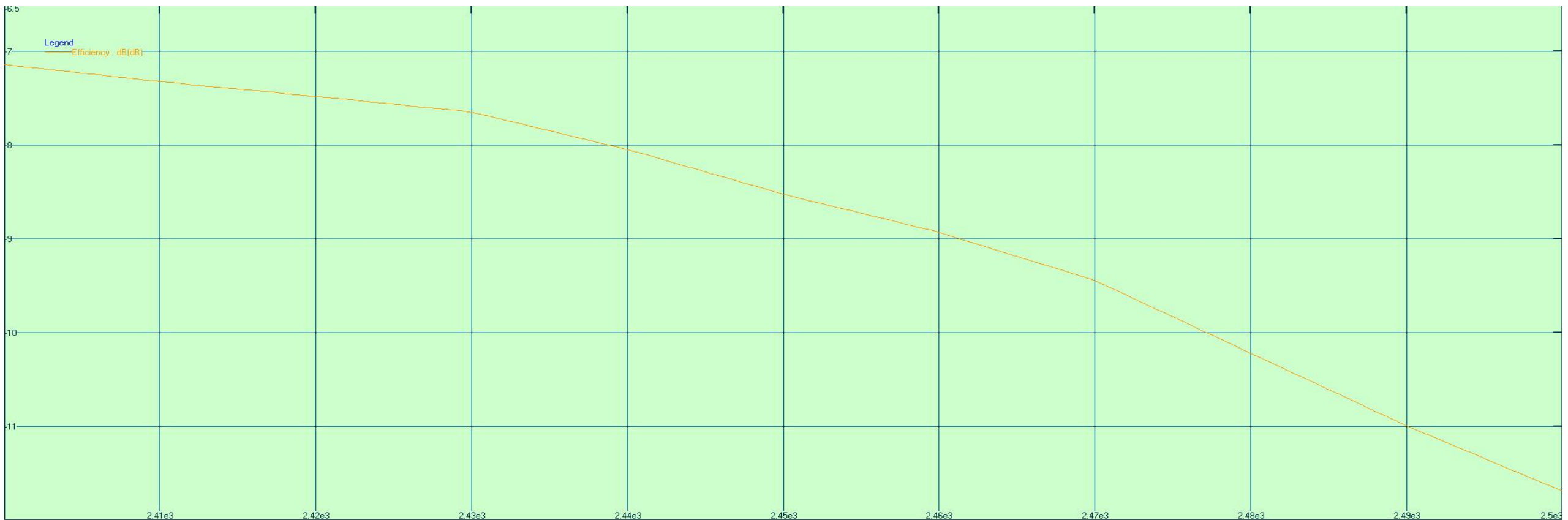
Frequency	Gain . dB
2.4E+09	0.027303
2.41E+09	-0.07946
2.42E+09	-0.08757
2.43E+09	-0.41709
2.44E+09	-1.0785
2.45E+09	-1.47008
2.46E+09	-2.03728
2.47E+09	-3.06955
2.48E+09	-4.2709
2.49E+09	-5.20722
2.5E+09	-6.20687



2400MHZ-2500MHZ



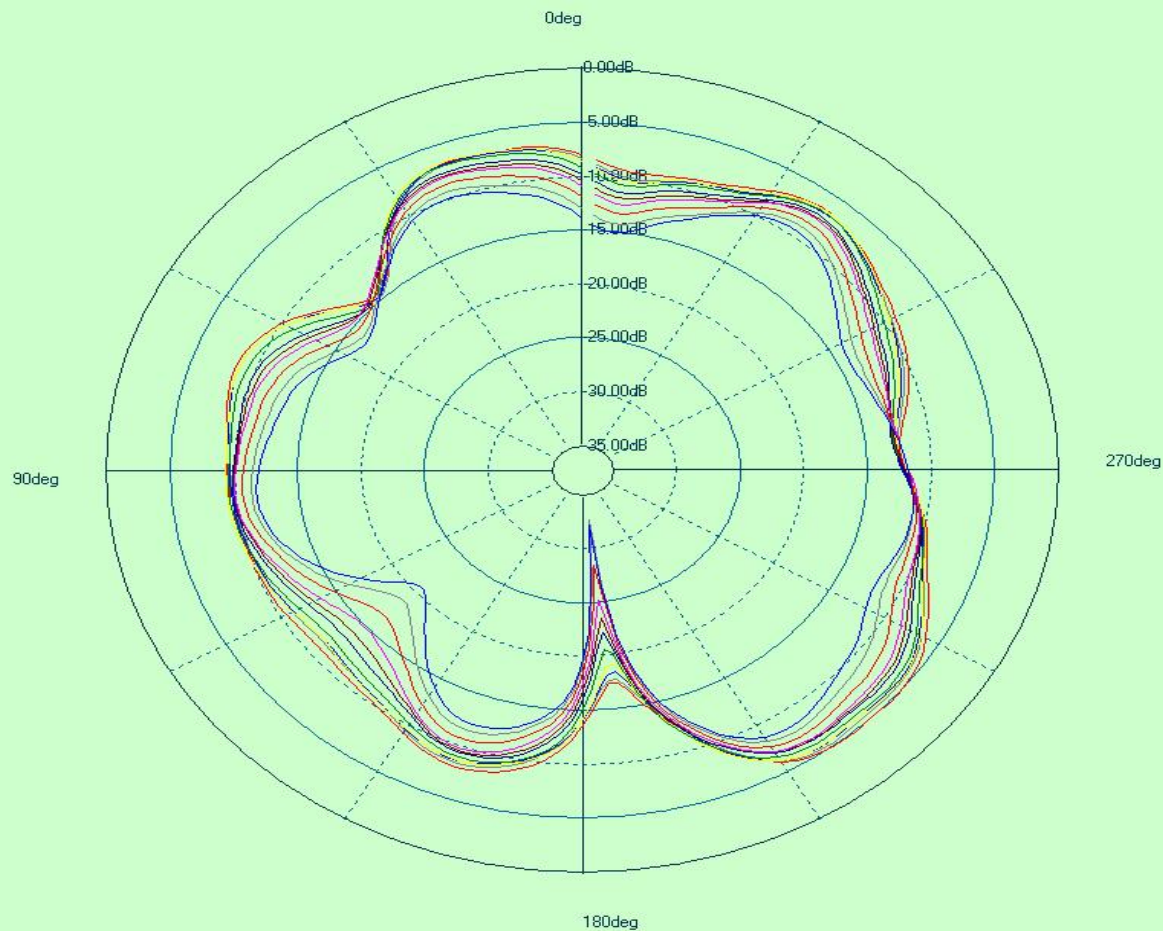
2400MHZ-2500MHZ



2400MHZ-2500MHZ

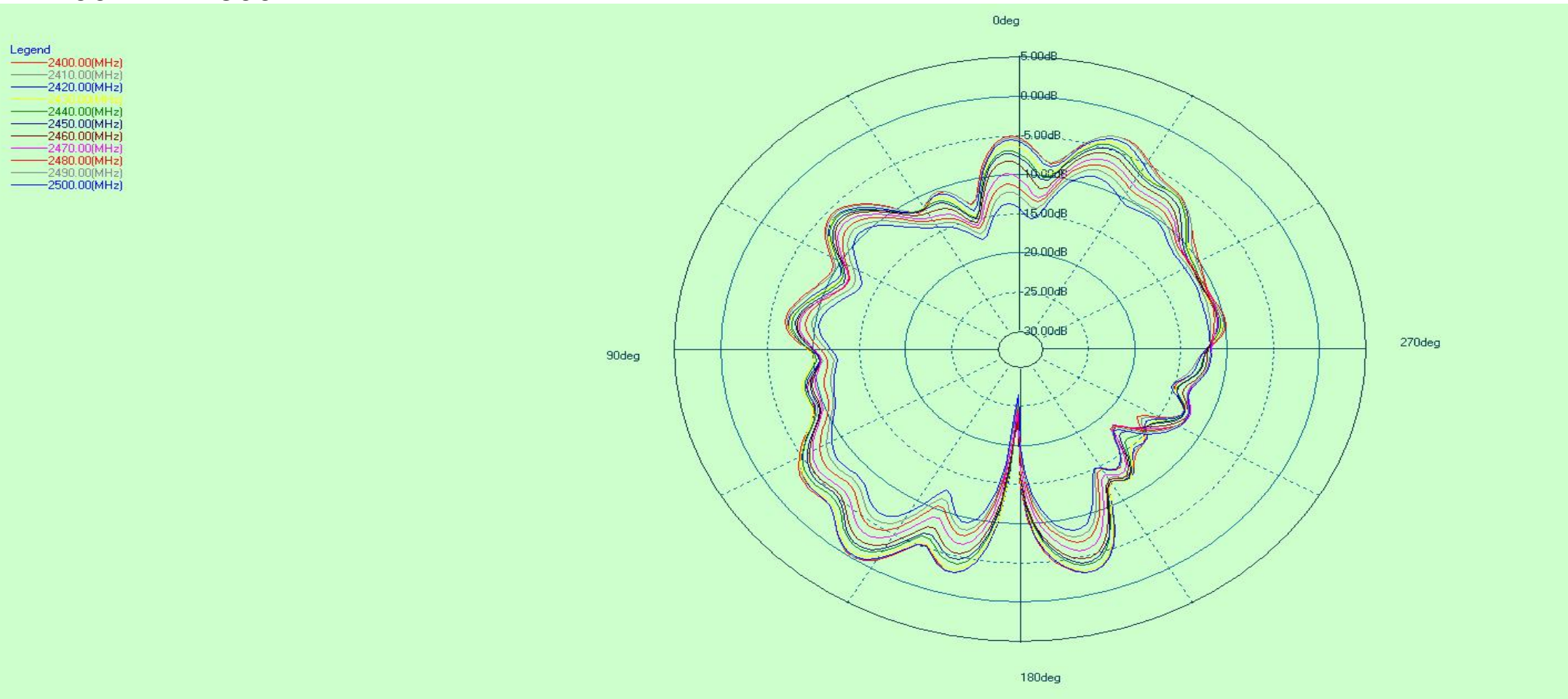
Legend

- 2400.00(MHz)
- 2410.00(MHz)
- 2420.00(MHz)
- 2440.00(MHz)
- 2450.00(MHz)
- 2460.00(MHz)
- 2470.00(MHz)
- 2480.00(MHz)
- 2490.00(MHz)
- 2500.00(MHz)



XY-Plane

2400MHZ-2500MHZ

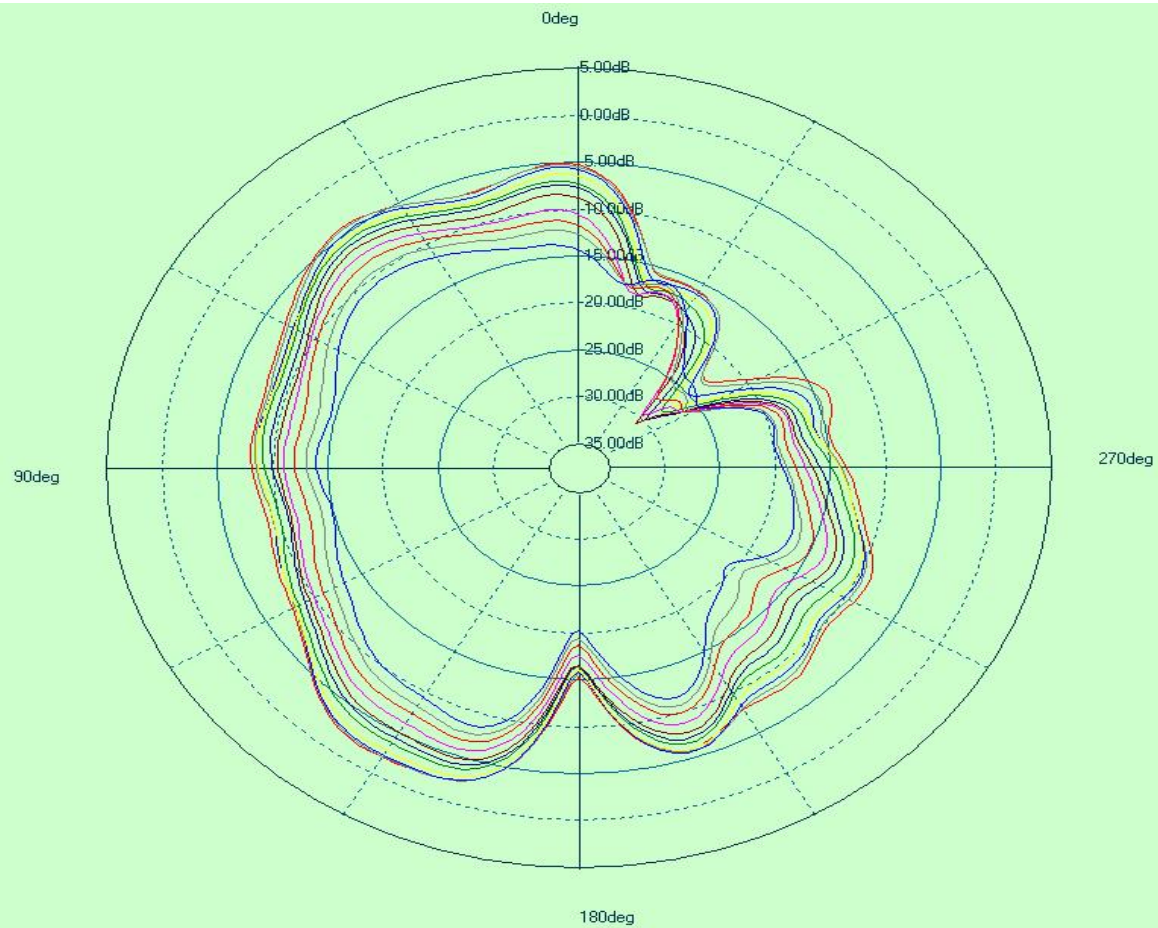


XZ-Plane

2400MHZ-2500MHZ

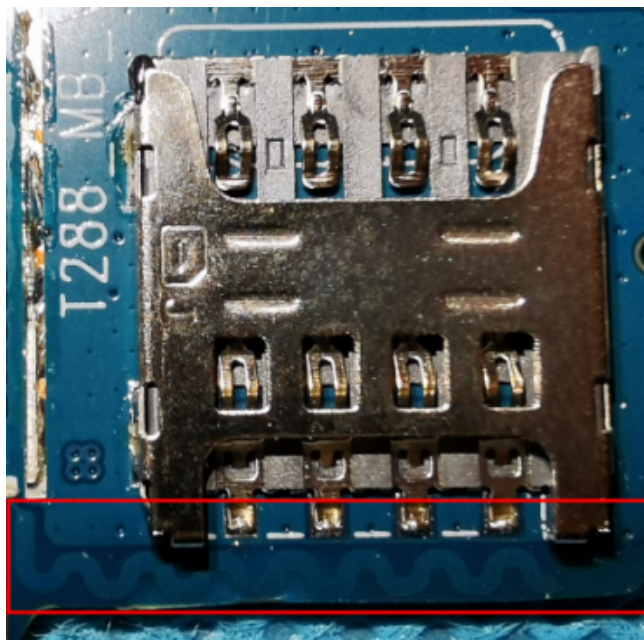
Legend

- 2400.00(MHz)
- 2410.00(MHz)
- 2420.00(MHz)
- 2430.00(MHz)
- 2440.00(MHz)
- 2450.00(MHz)
- 2460.00(MHz)
- 2470.00(MHz)
- 2480.00(MHz)
- 2490.00(MHz)
- 2500.00(MHz)



YZ-Plane

Antenna



(BT Antenna)



(GSM Antenna)