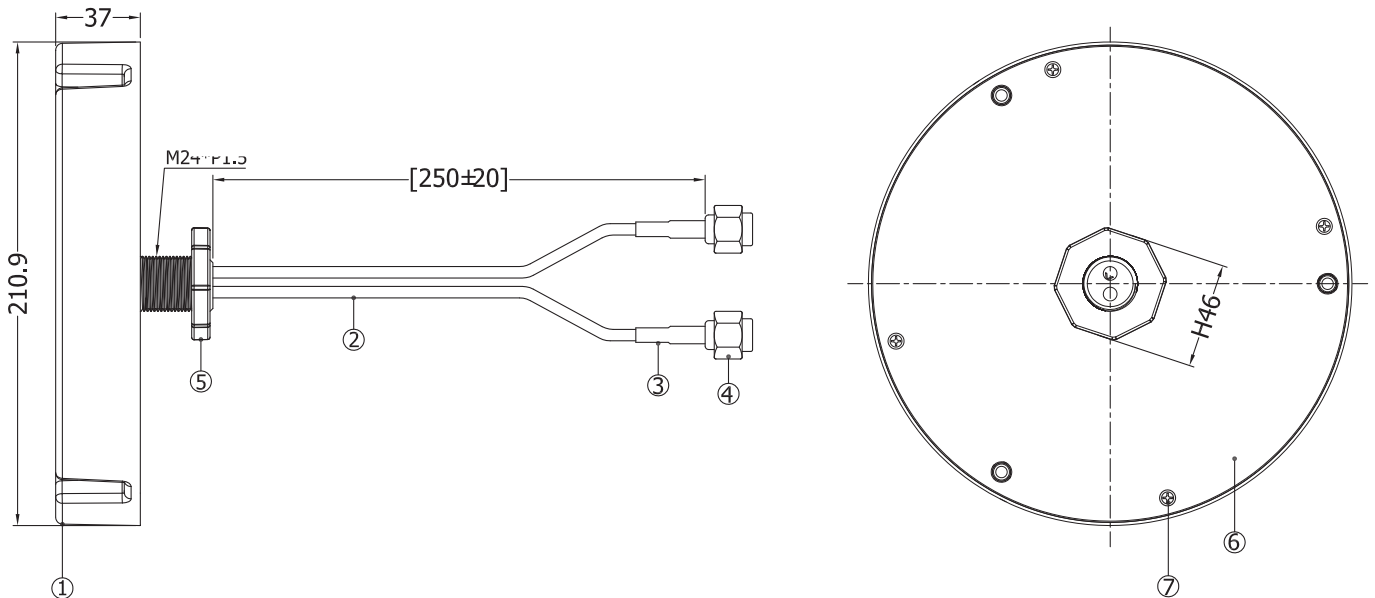# RF Antenna Assembly

Specification
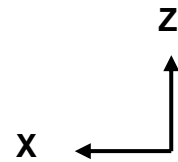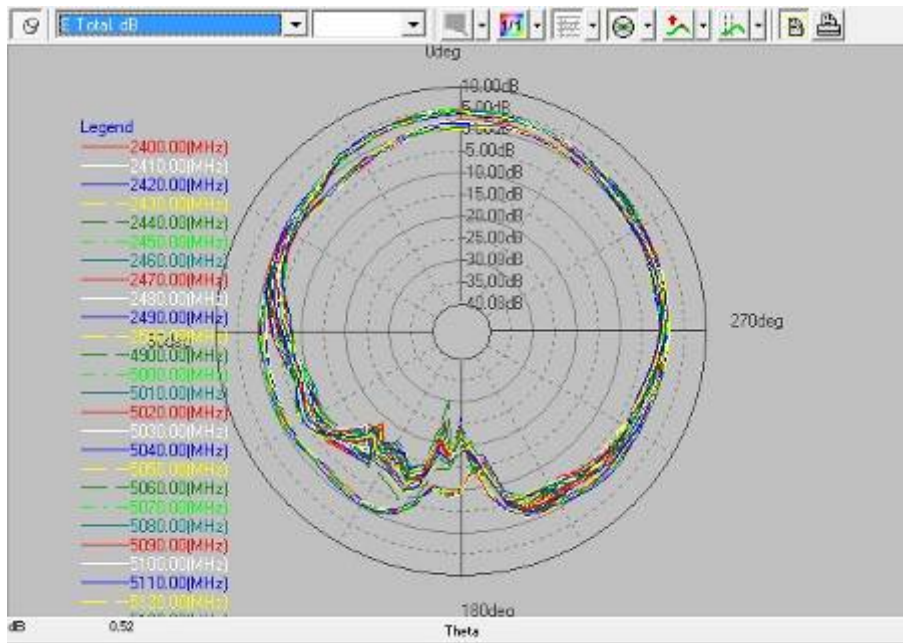
1. Electrical Properties :

1.1 Frequency Range………………2.4~ 2.5GHz ;4.9~5.9GHz

1.2 Impedance ……………………50Ω Nominal

1.3 VSWR ………………………..1.92 :1Max.

1.4 Return Loss……………………-10 dB Max.

1.5 Radiation ……………………Omni-directional

1.6 Gain(peak)……………………2±0.5dBi @ 2.4GHz ~ 2.5GHz

5±1.0dBi @ 4.9GHz ~ 5.9GHz

1.7 Polarization……………………Linearl
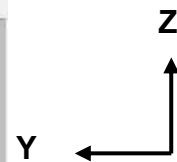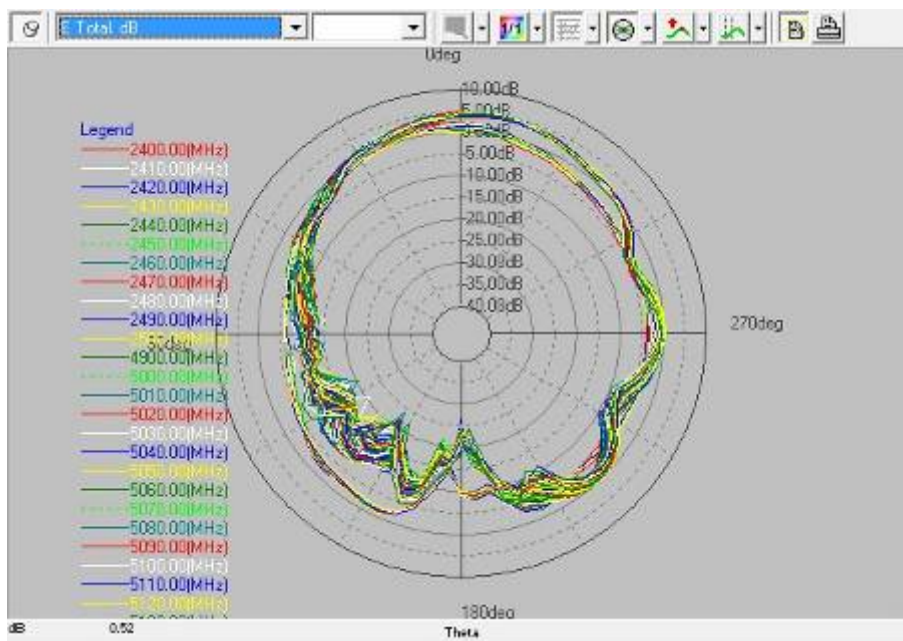1.8 Cable……………………………RG-178 Coaxial Cable
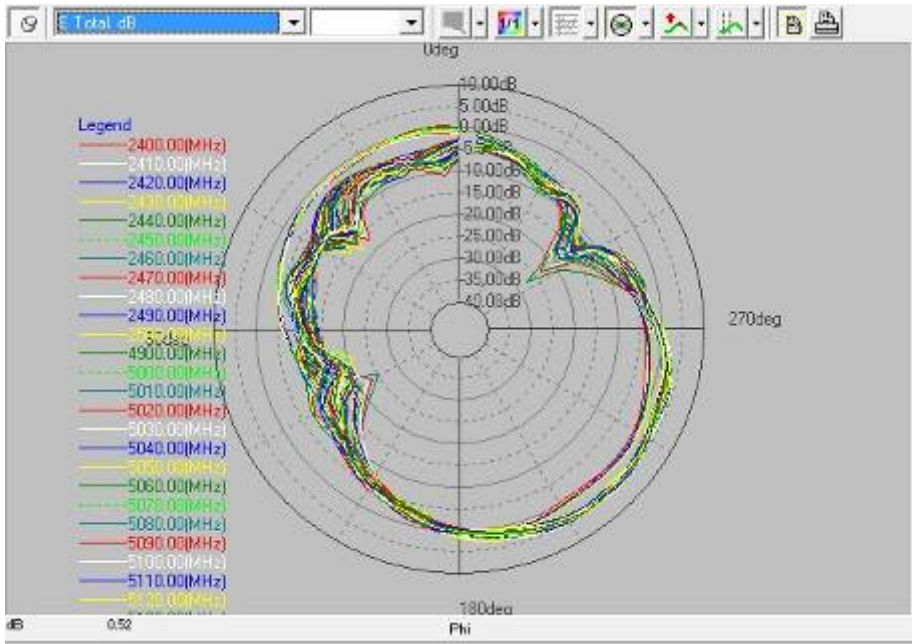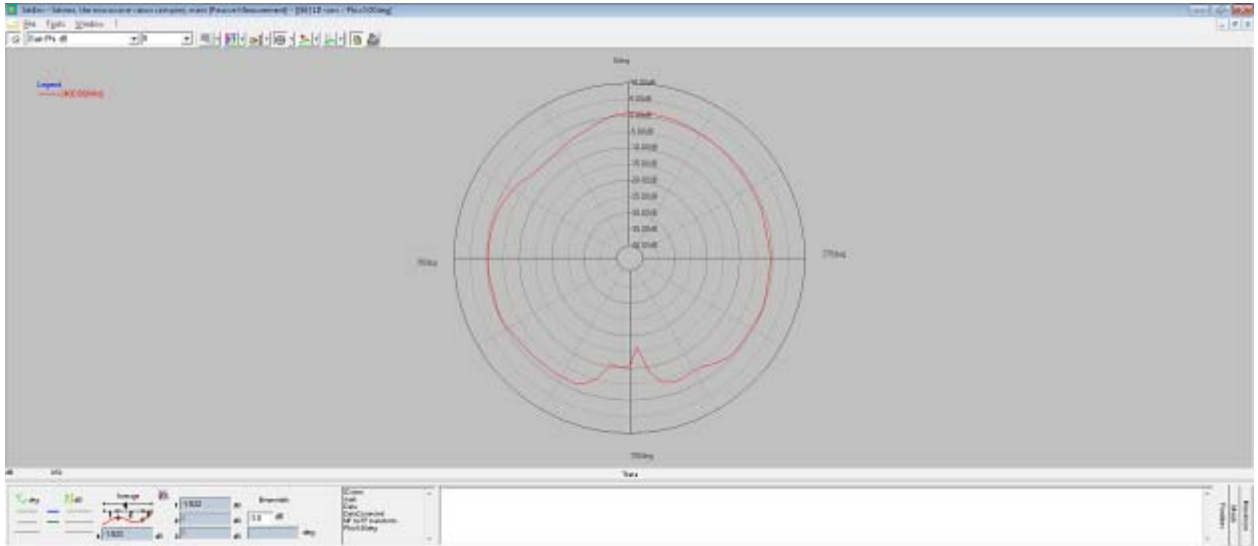1.9 Connector…...…………………SMA Plug Reverse

4.2 2D patterns

4.2.1 Ant 1

X-Z Plane
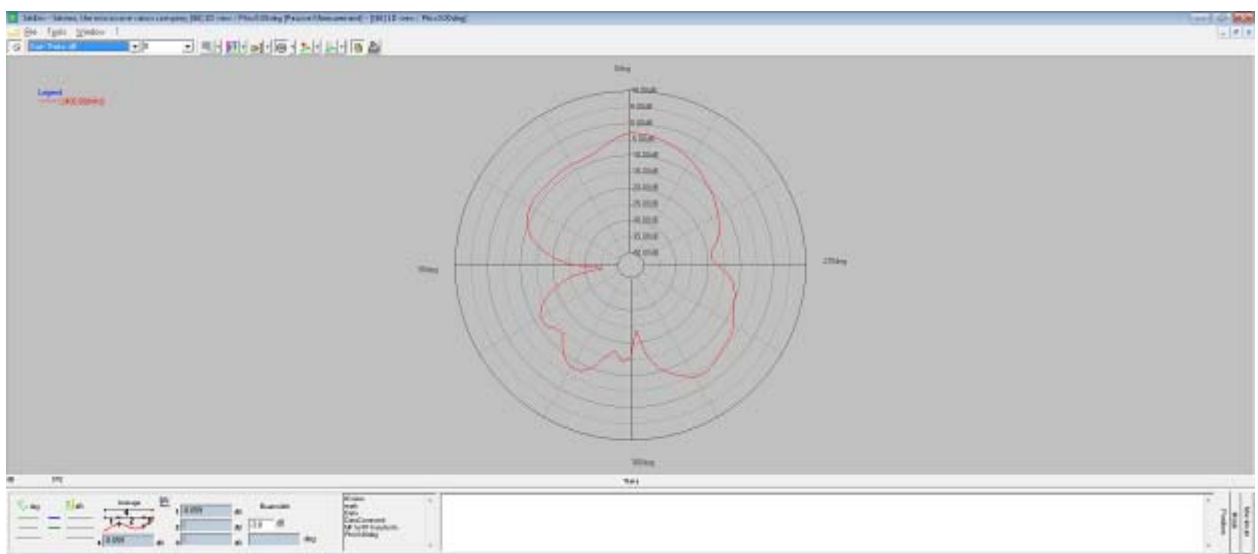

Y-Z Plane
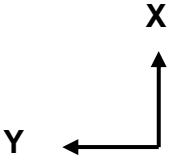
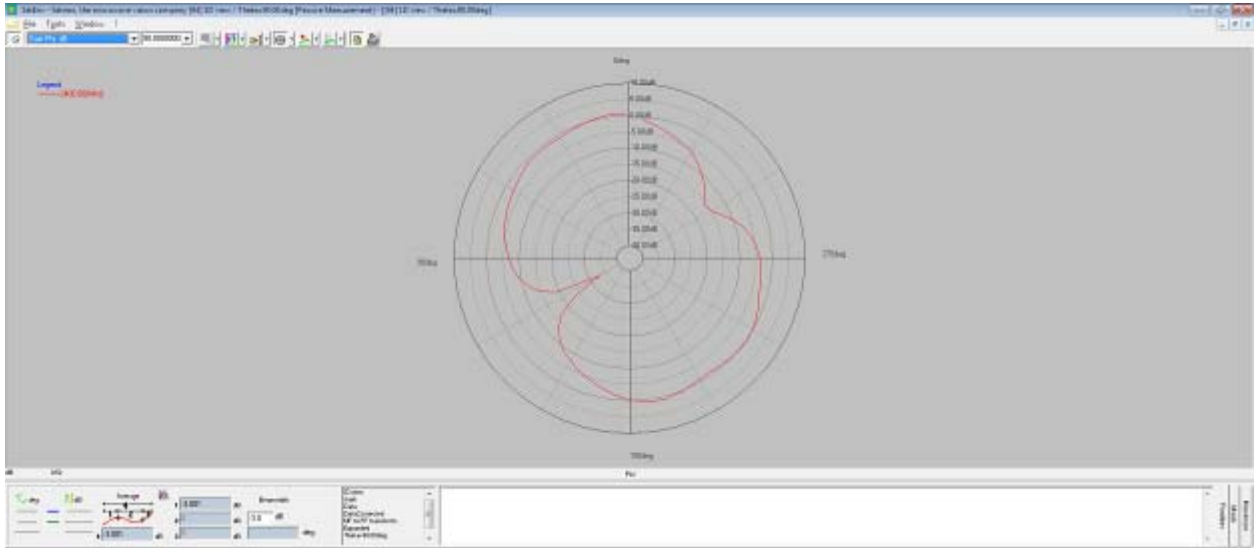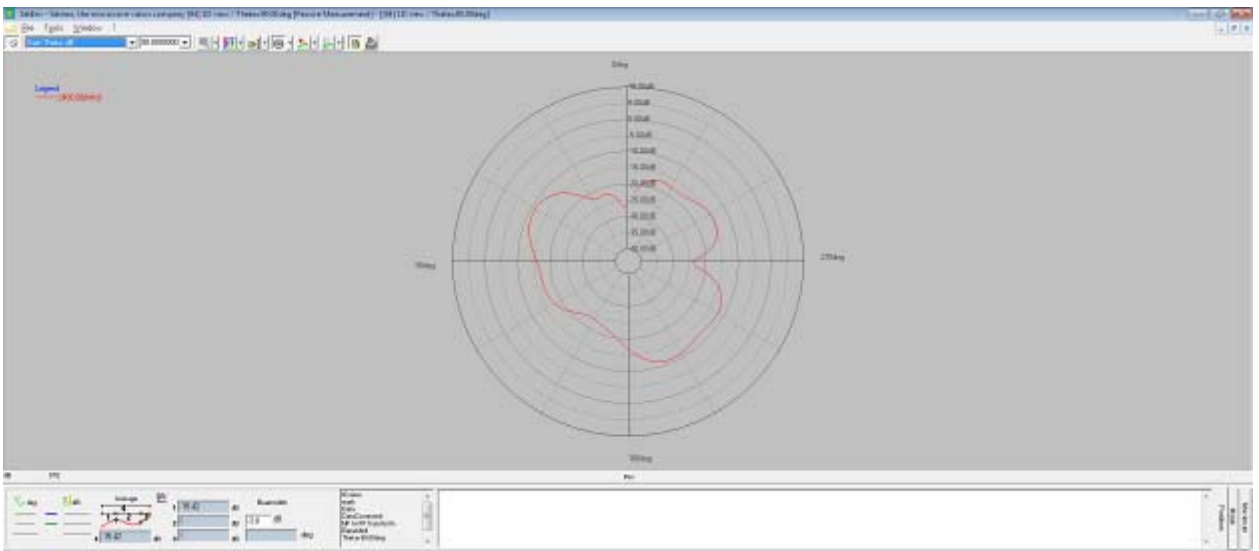**X-Y Plane**

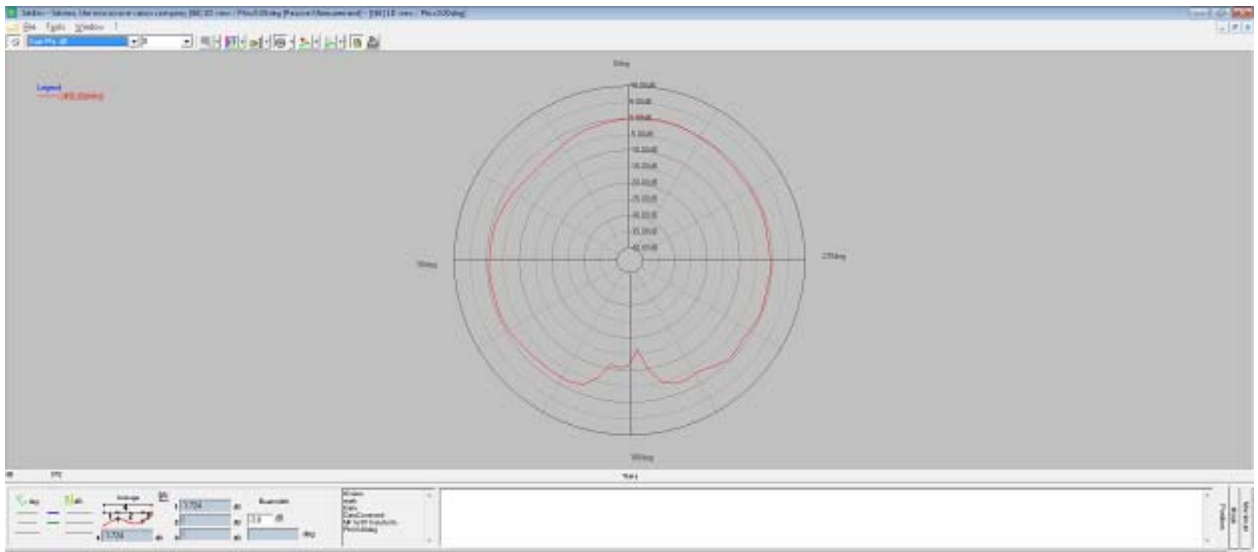## 4.3 co port & cross port-Ant1
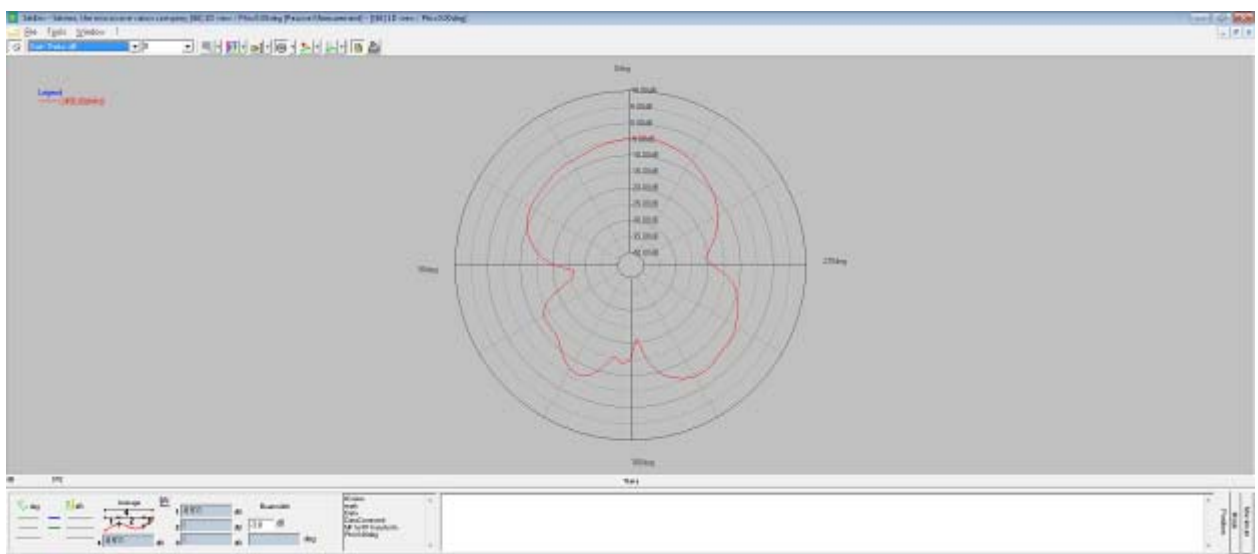
4.3.1 2400MHz
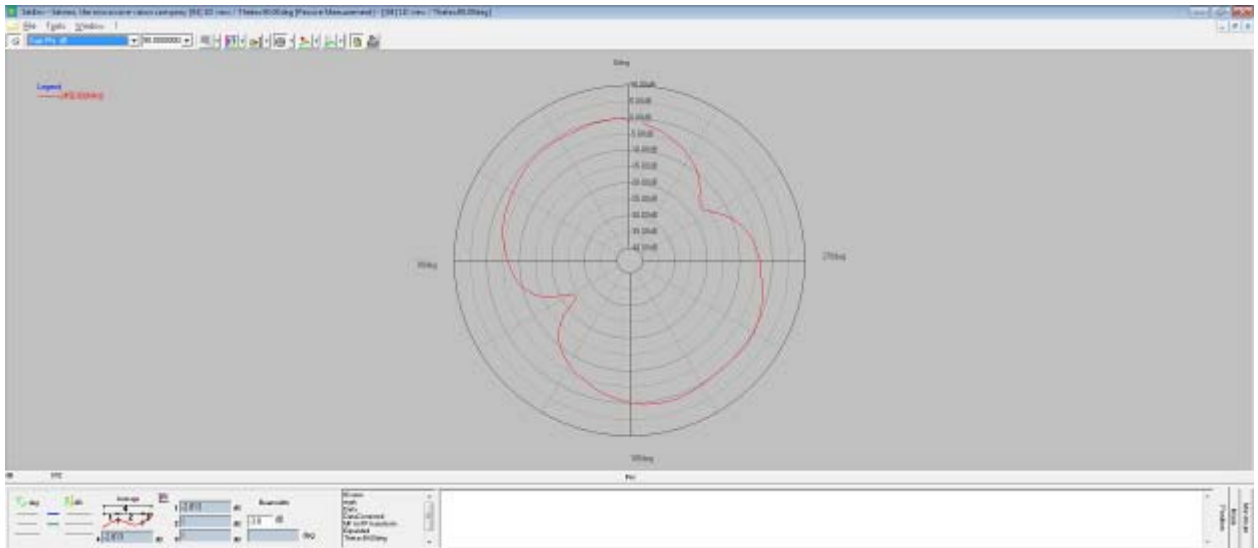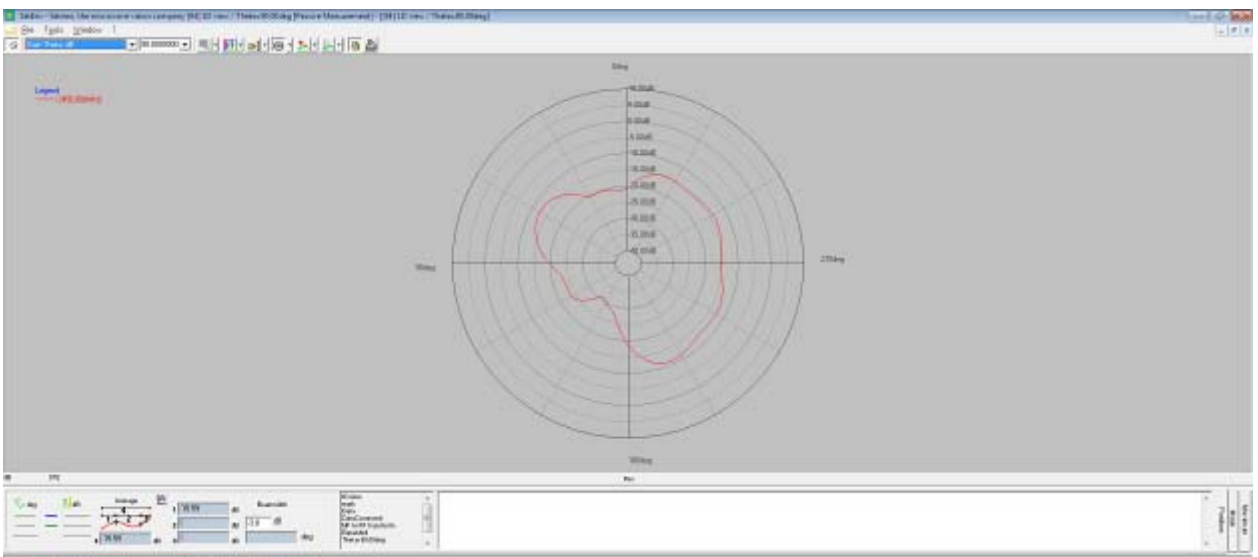

XZ-Phi

XZ-Theta
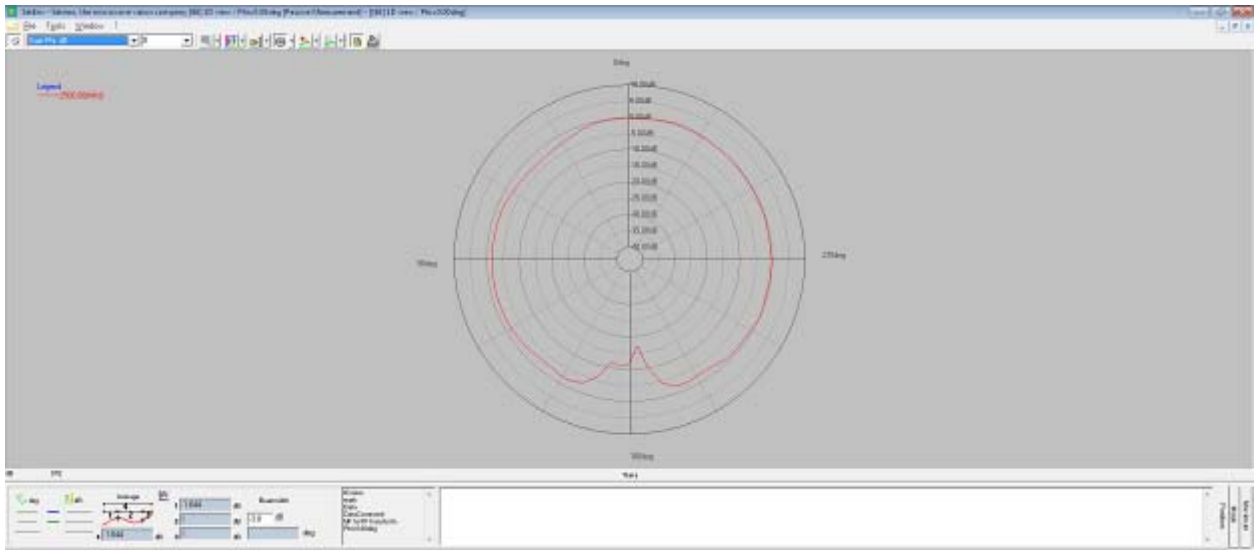
XY-Phi
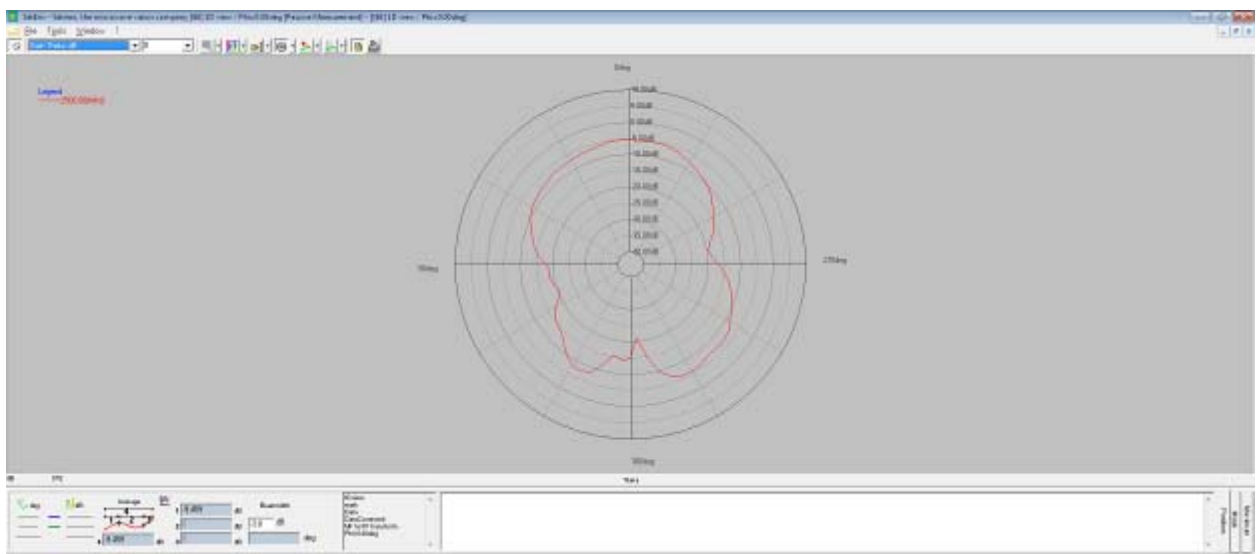

XY-Theta

4.3.2 2450MHz

XZ-Phi
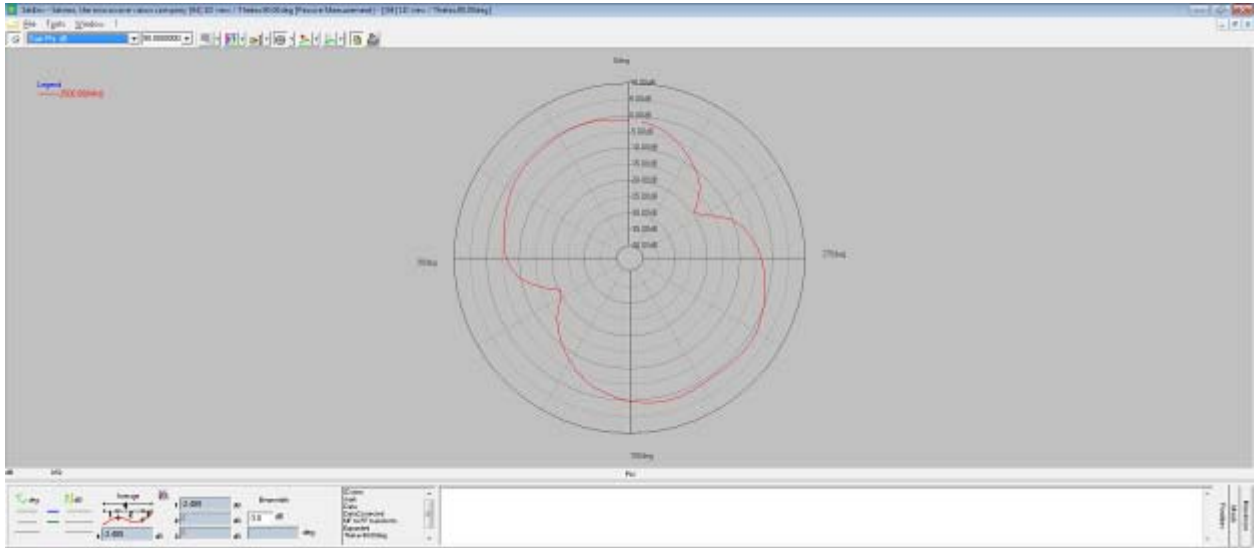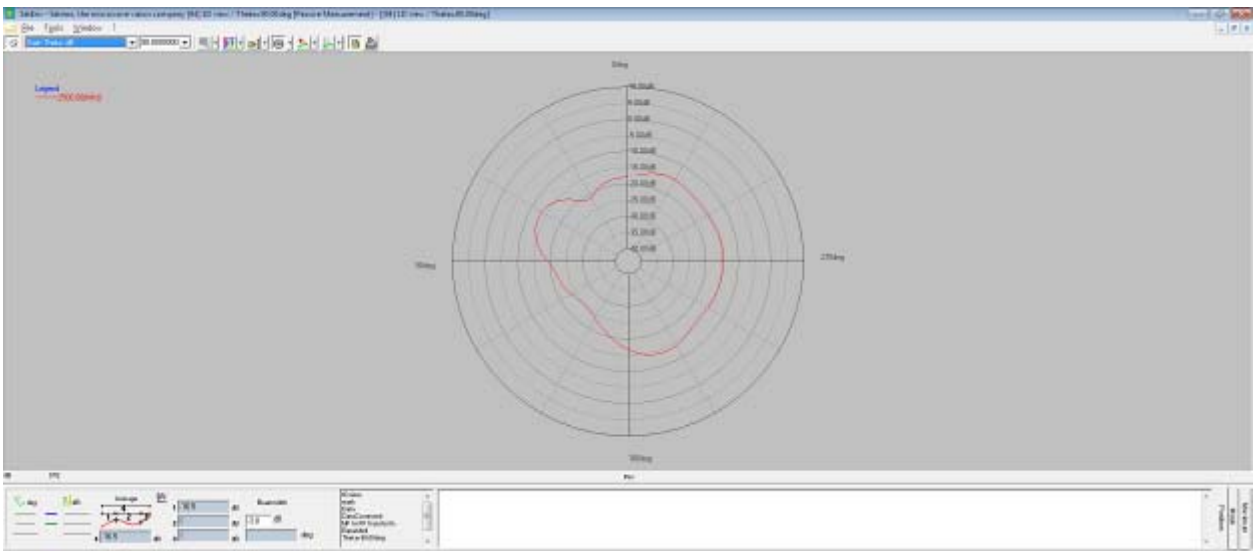

XZ-Theta

XY-Phi

XY-Theta

4.3.3 2500MHz

XZ-Phi

XZ-Theta
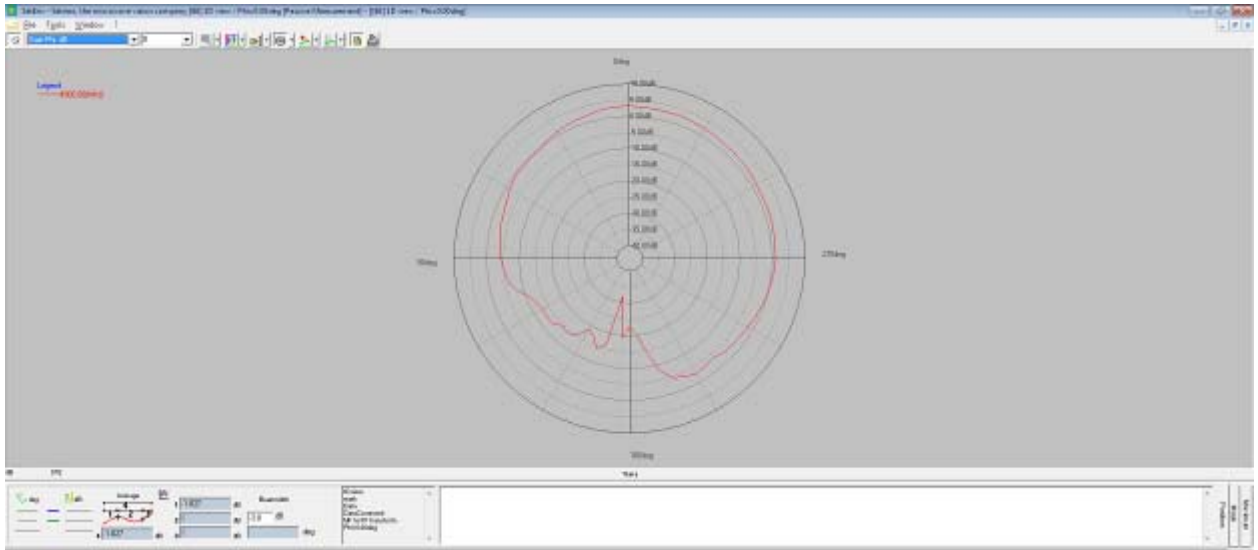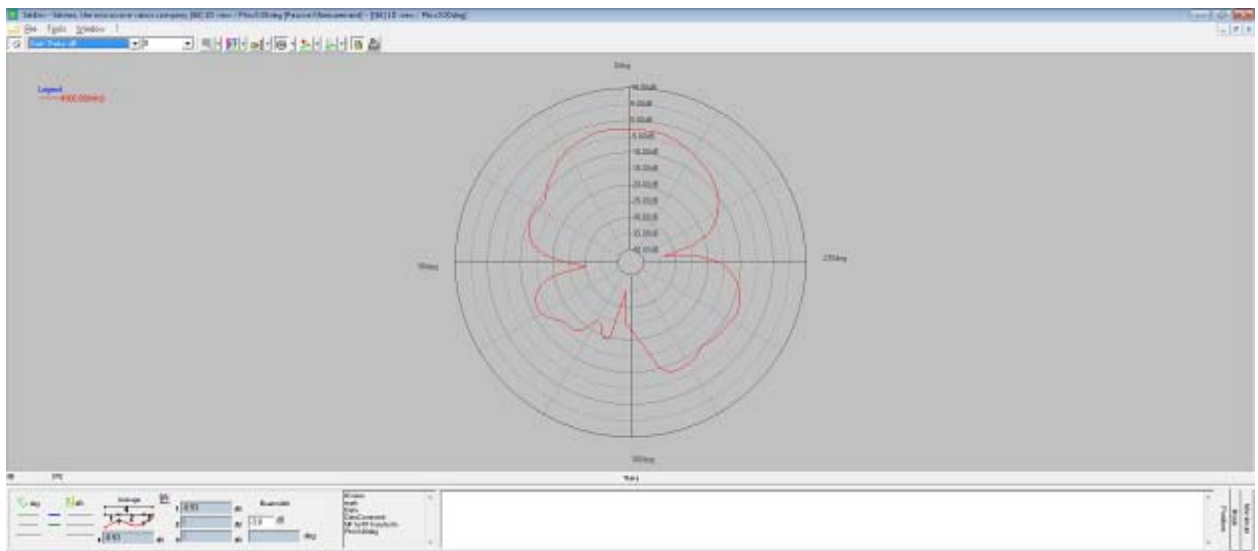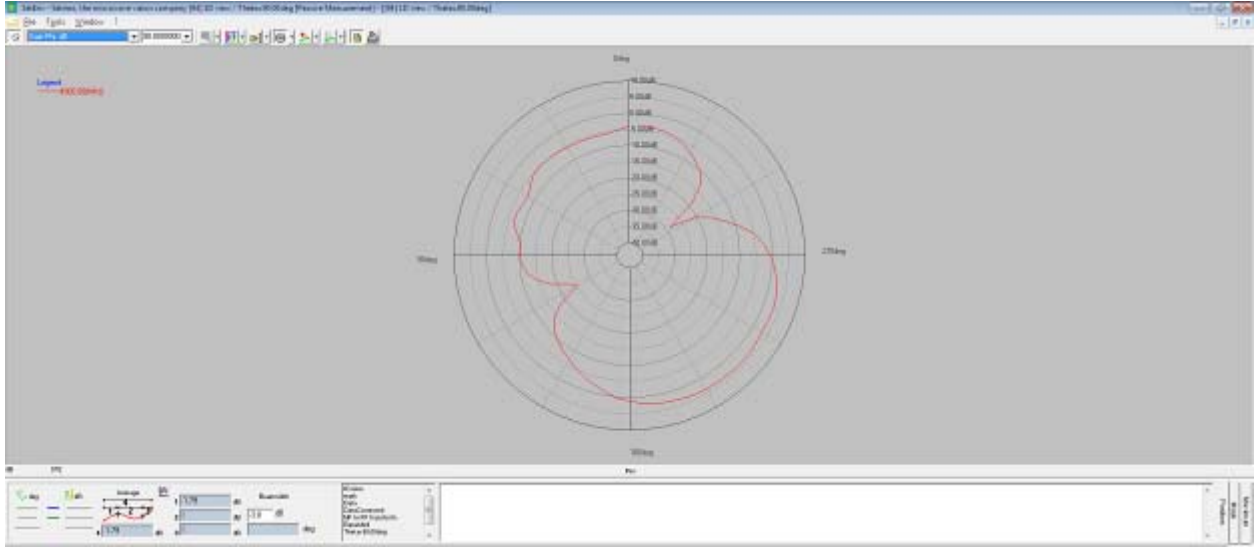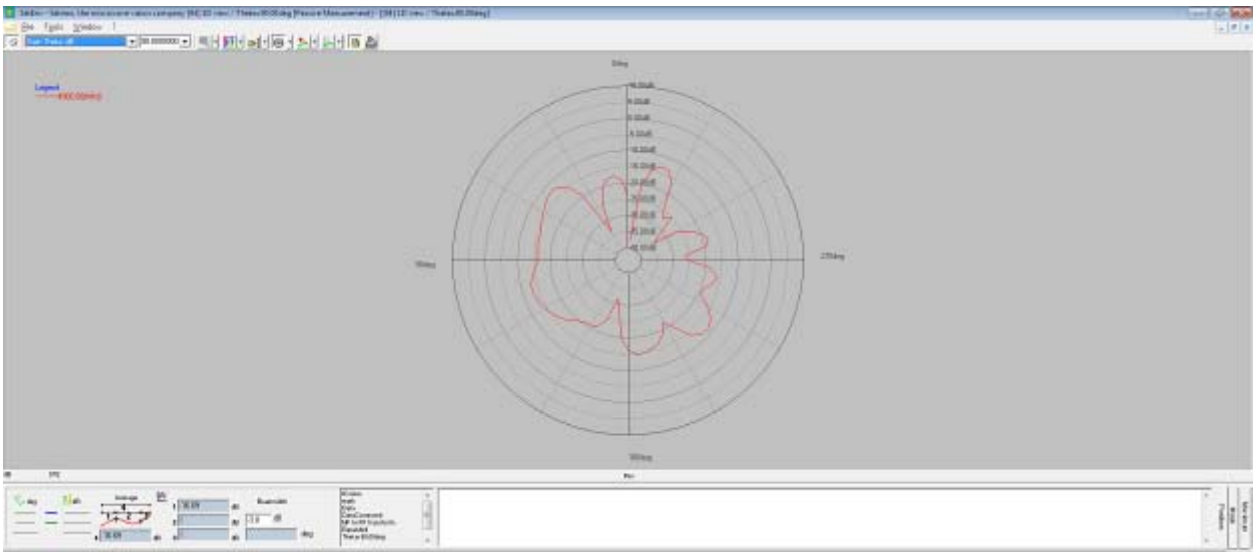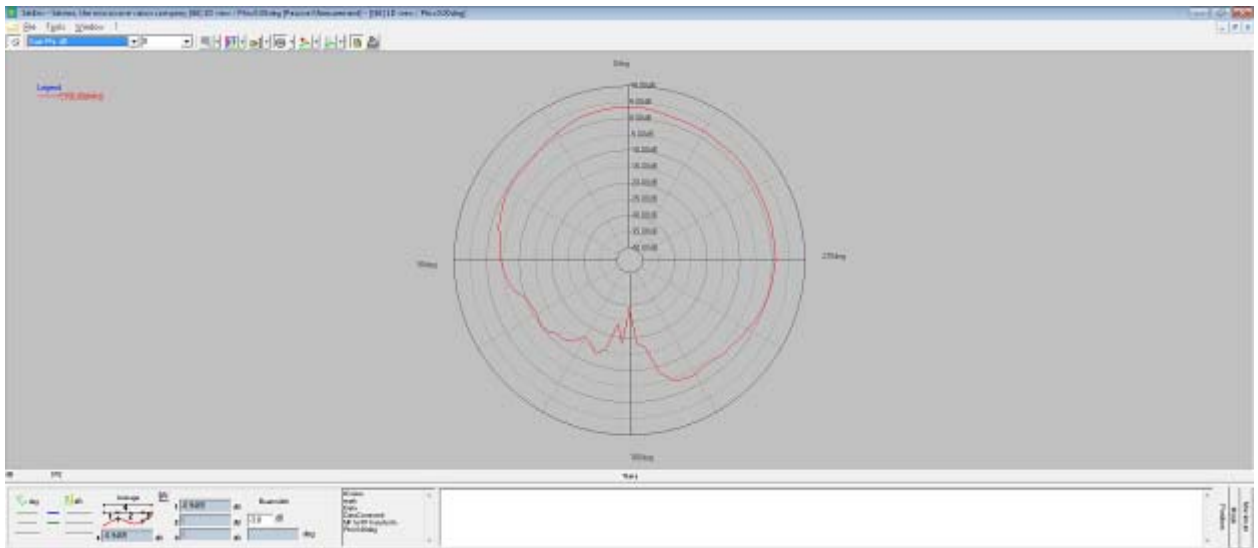
XY-Phi
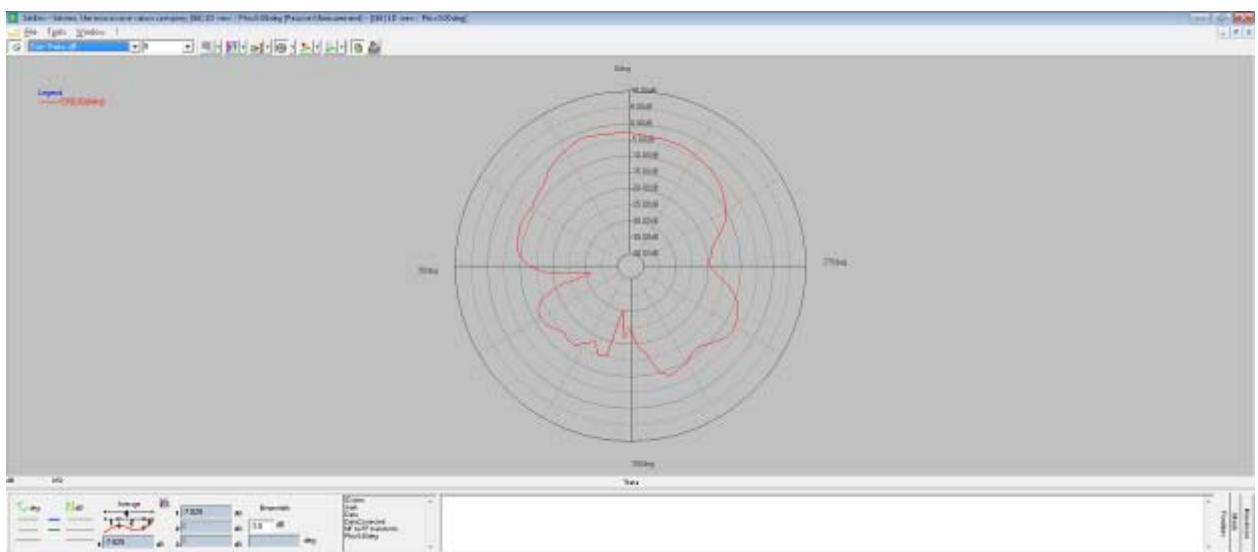

XY-Theta

4.3.4 4900MHz
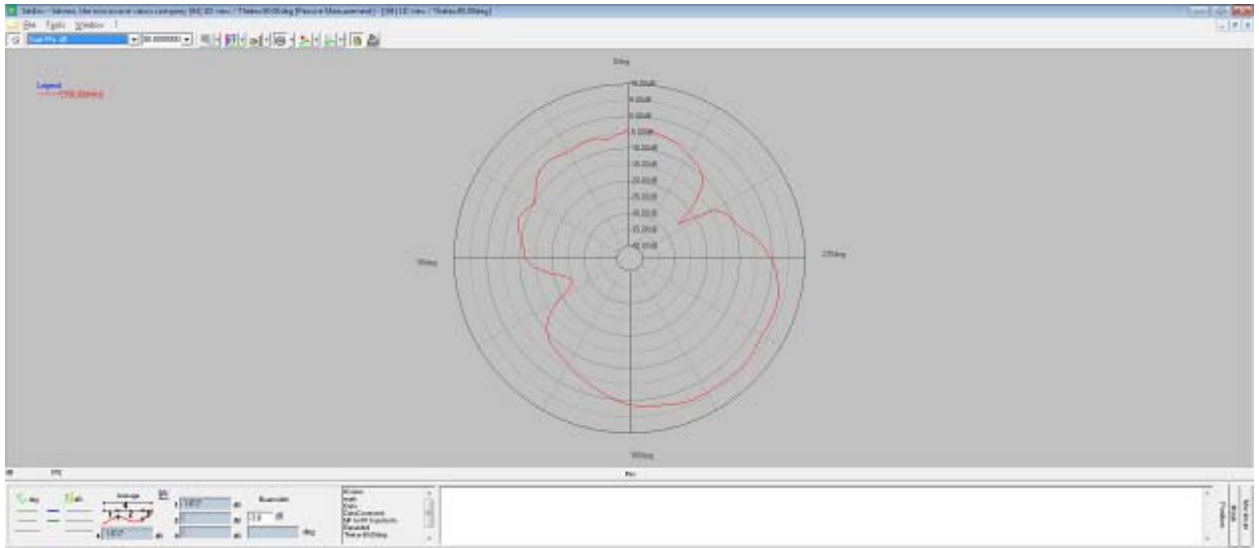

XZ-Phi
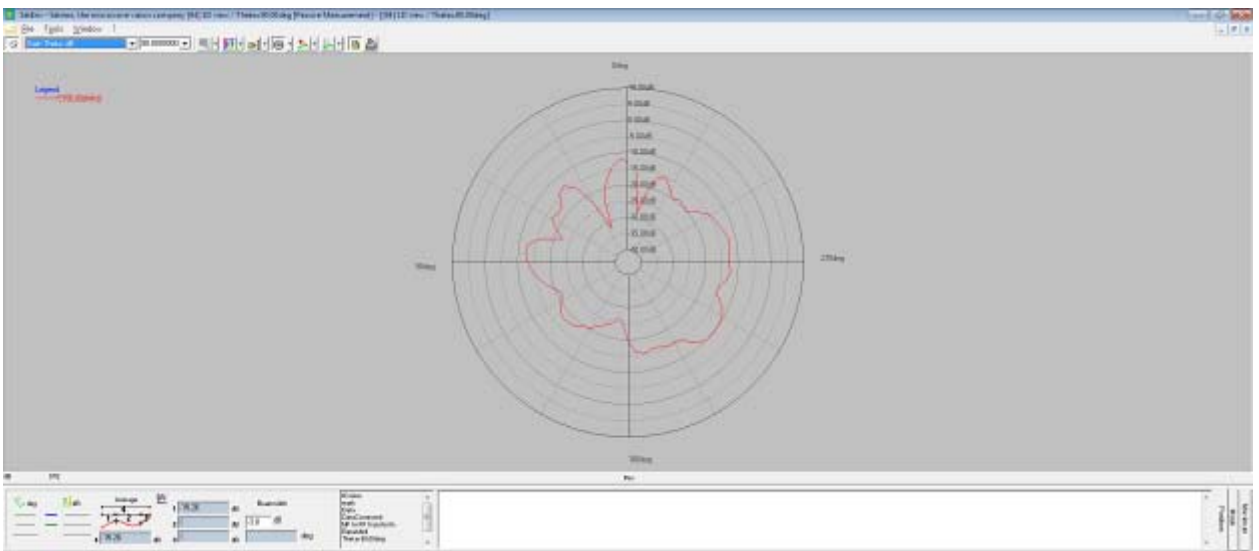

XZ-Theta
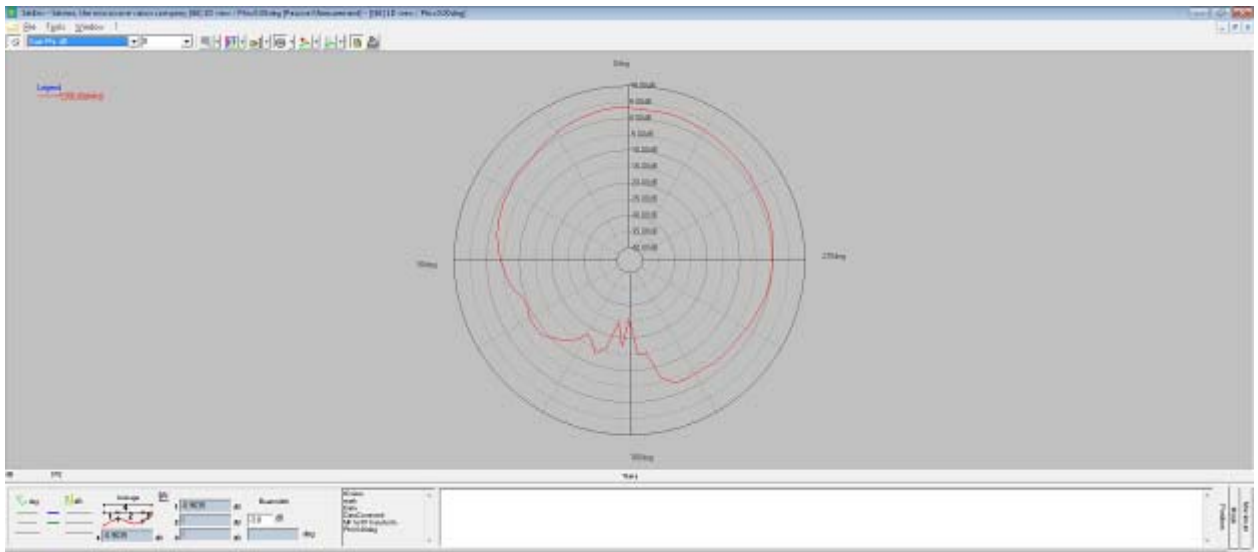
XY-Phi
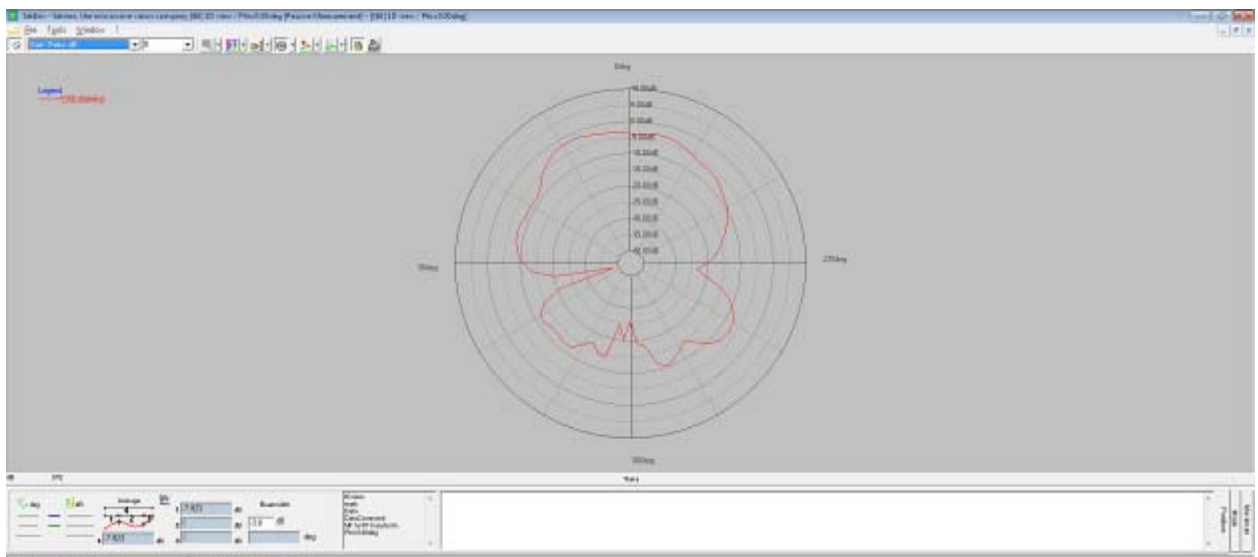

XY-Theta

4.3.5 5150MHz
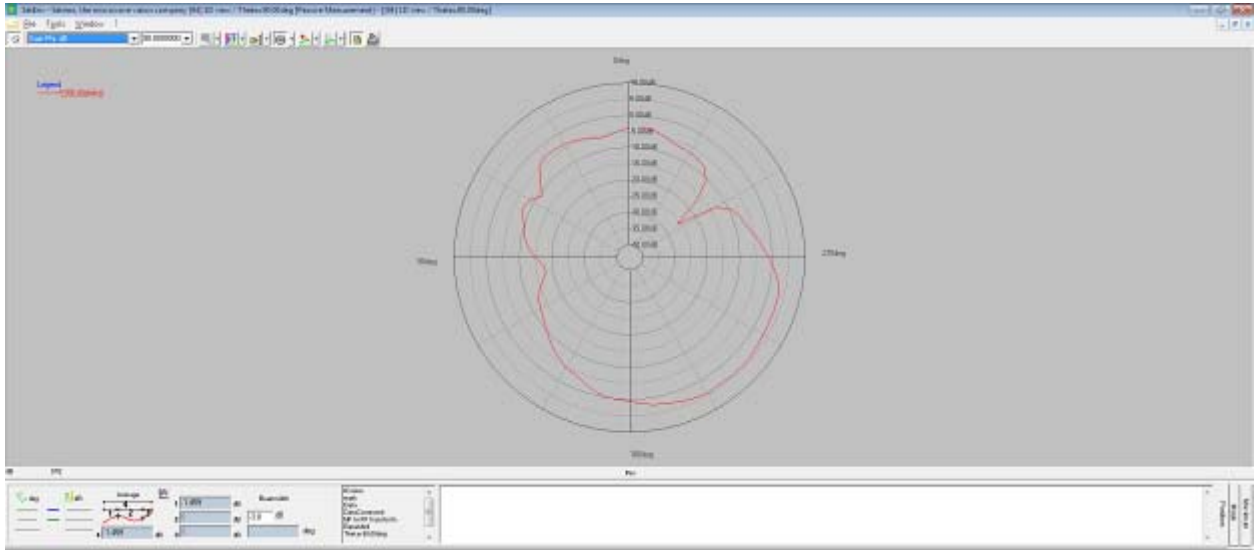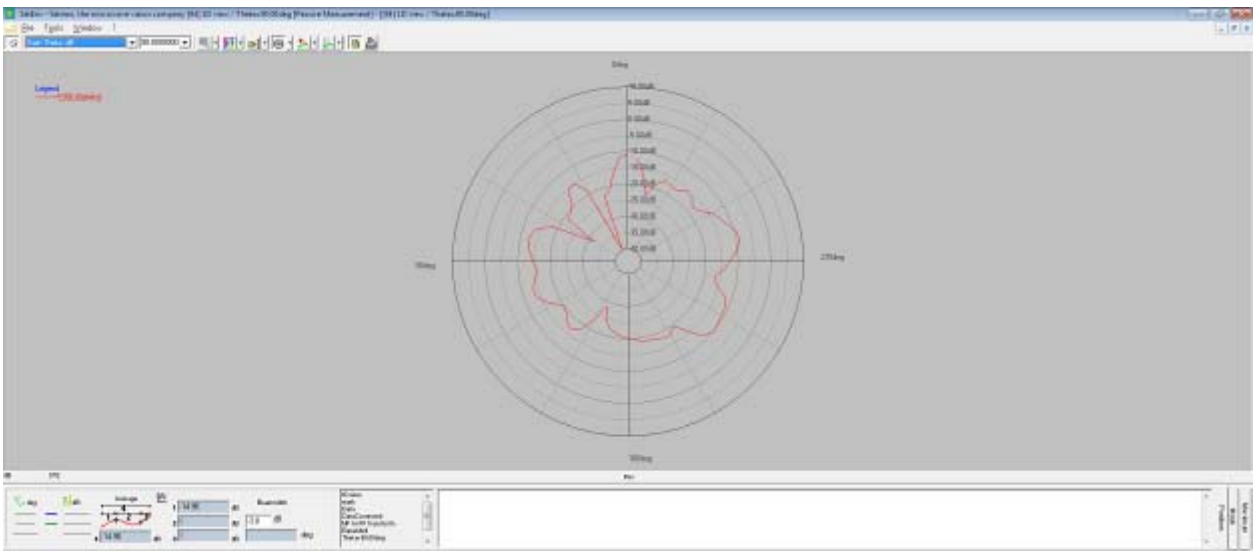

XZ-Phi

XZ-Theta
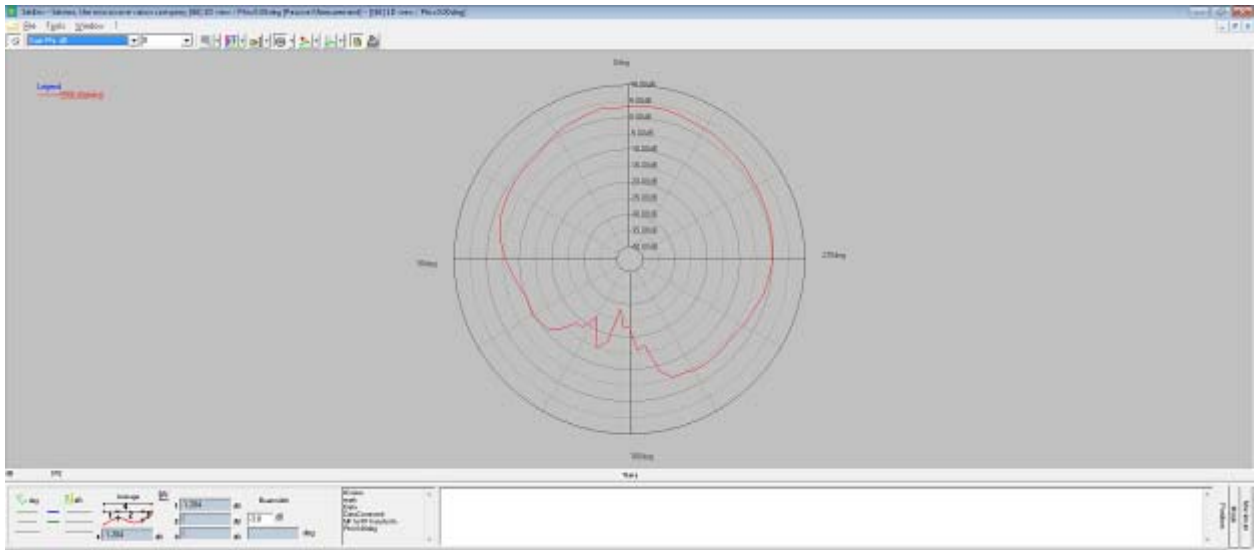
XY-Phi
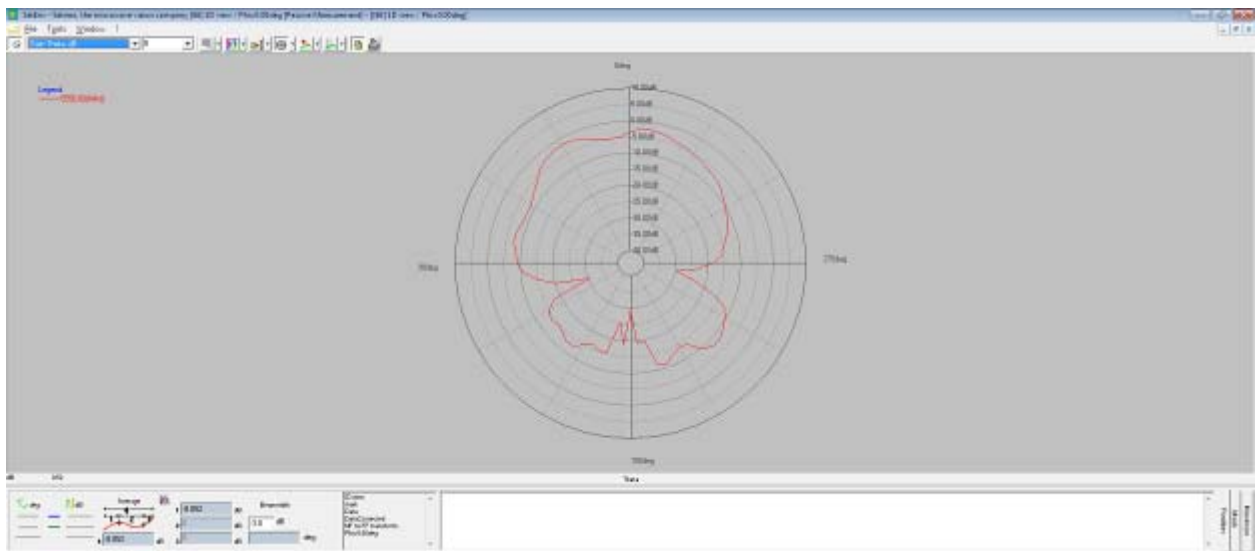

XY-Theta

4.3.6 5350MHz

XZ-Phi
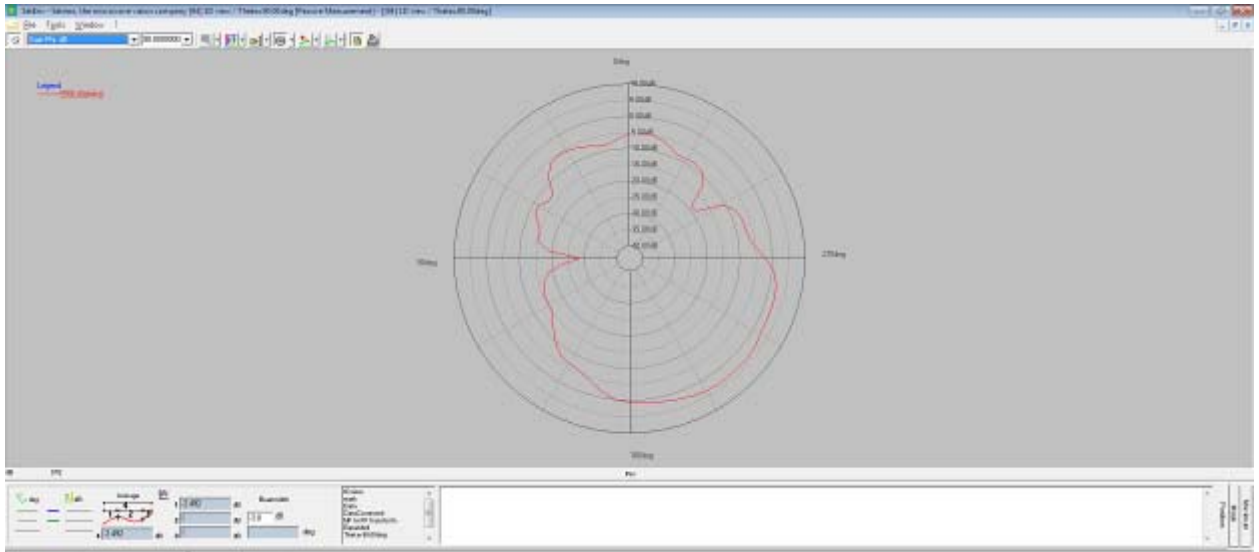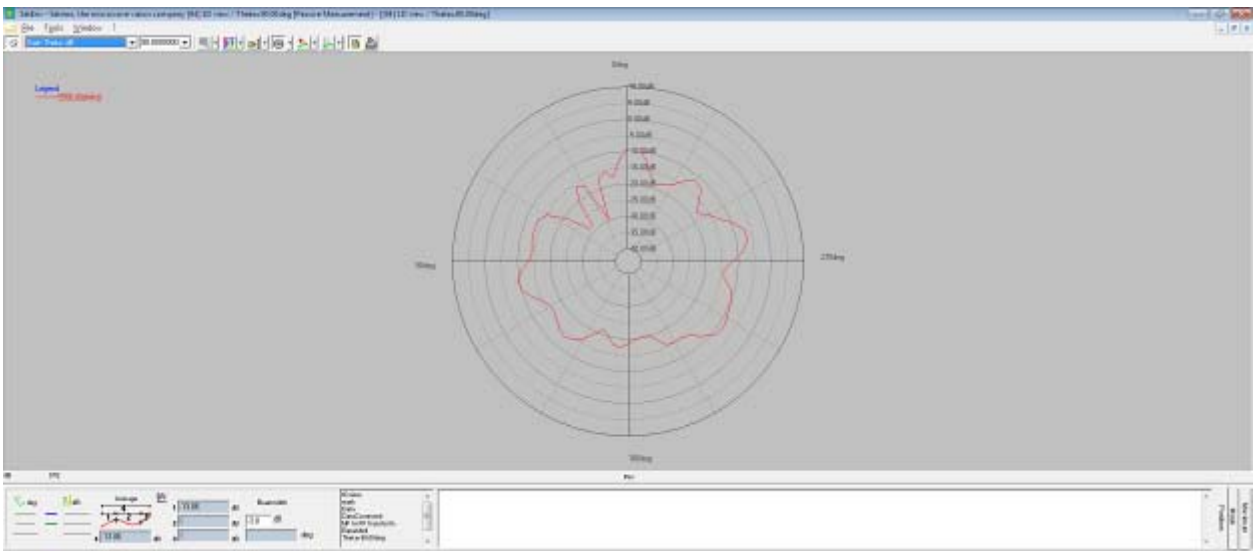

XZ-Theta
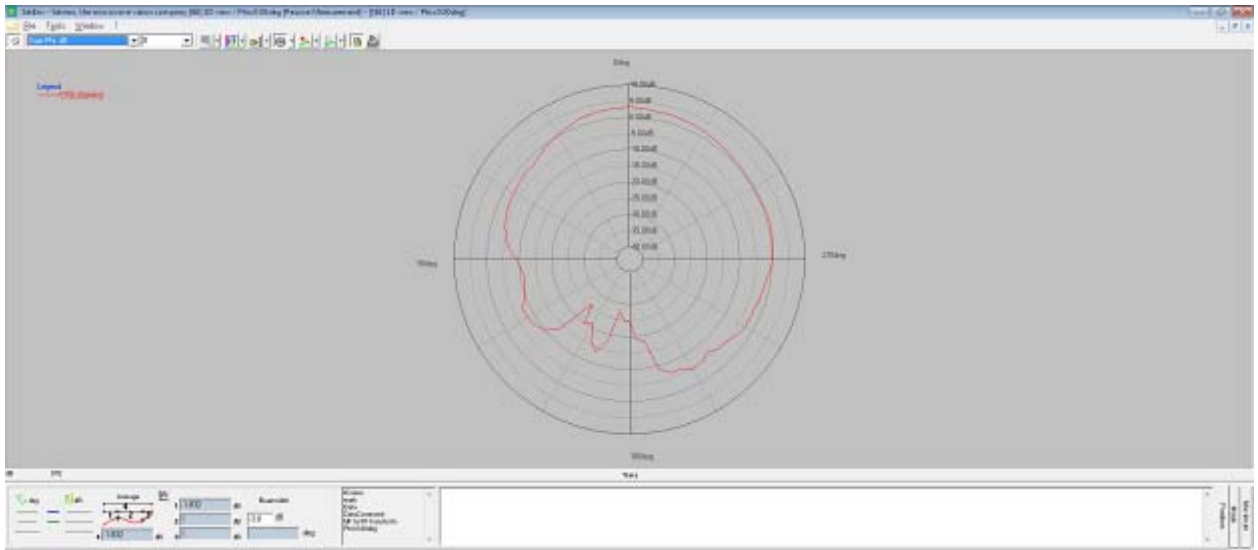
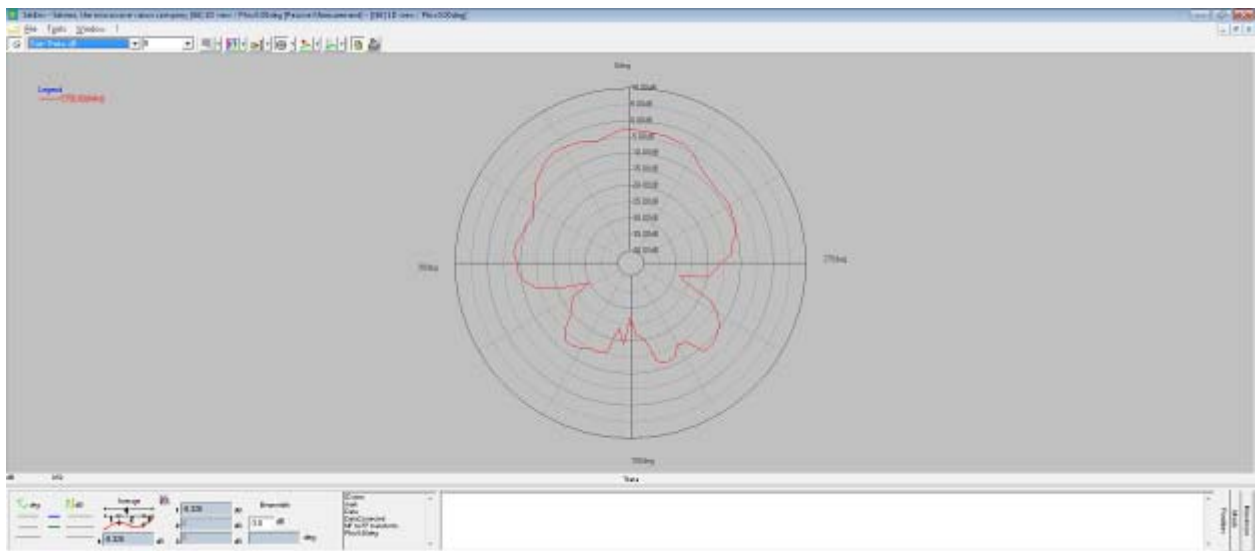**XY-Phi**

XY-Theta

4.3.7 5550MHz

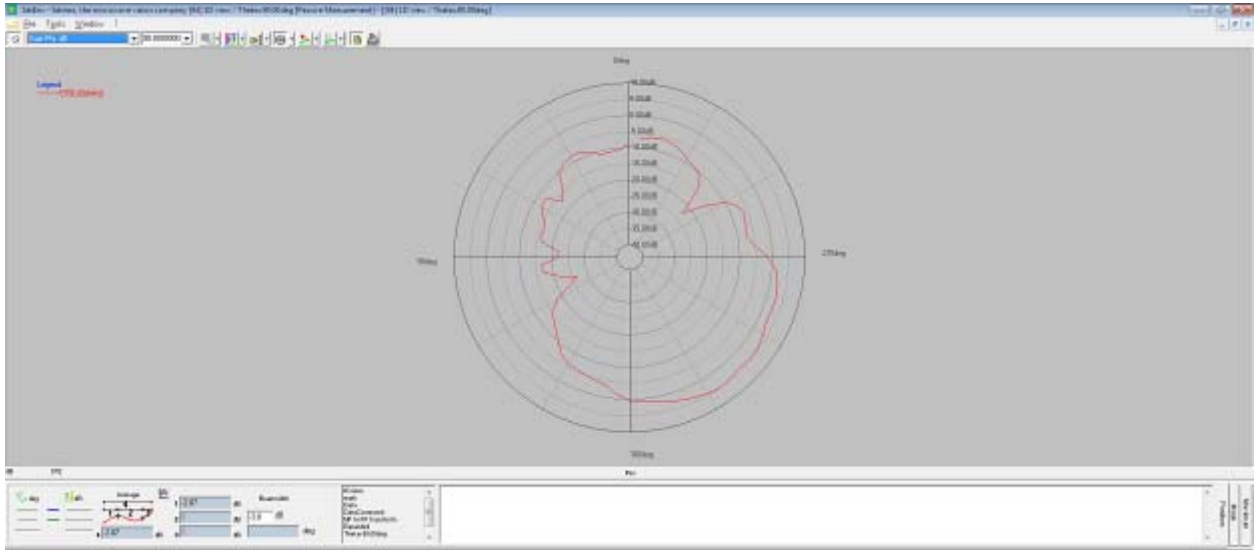**XZ-Phi**

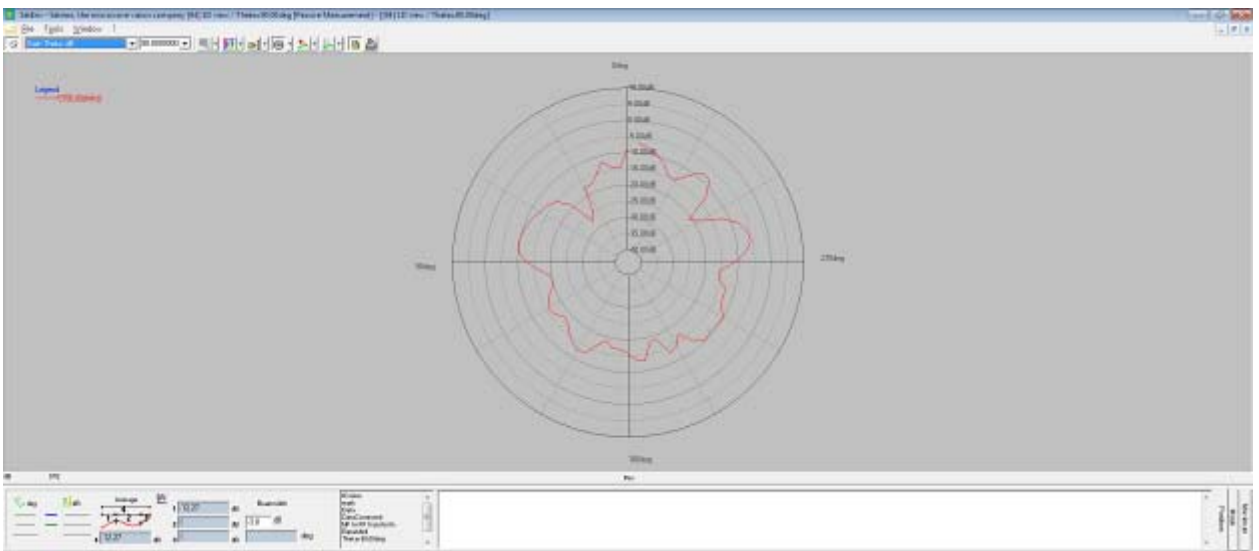**XZ-Theta**

XY-Phi

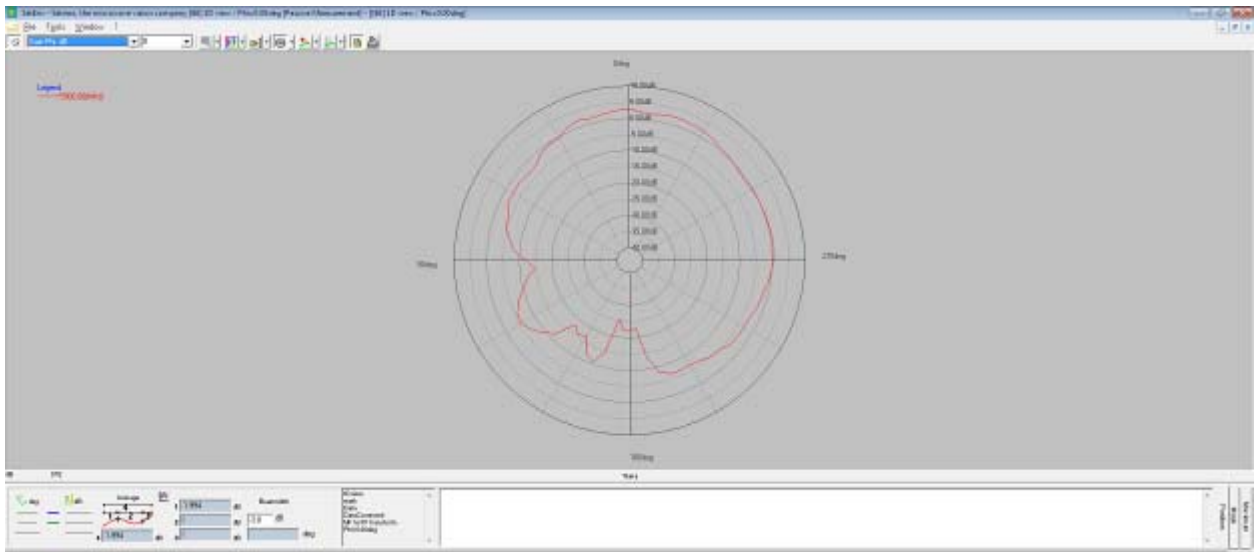**XY-Theta**

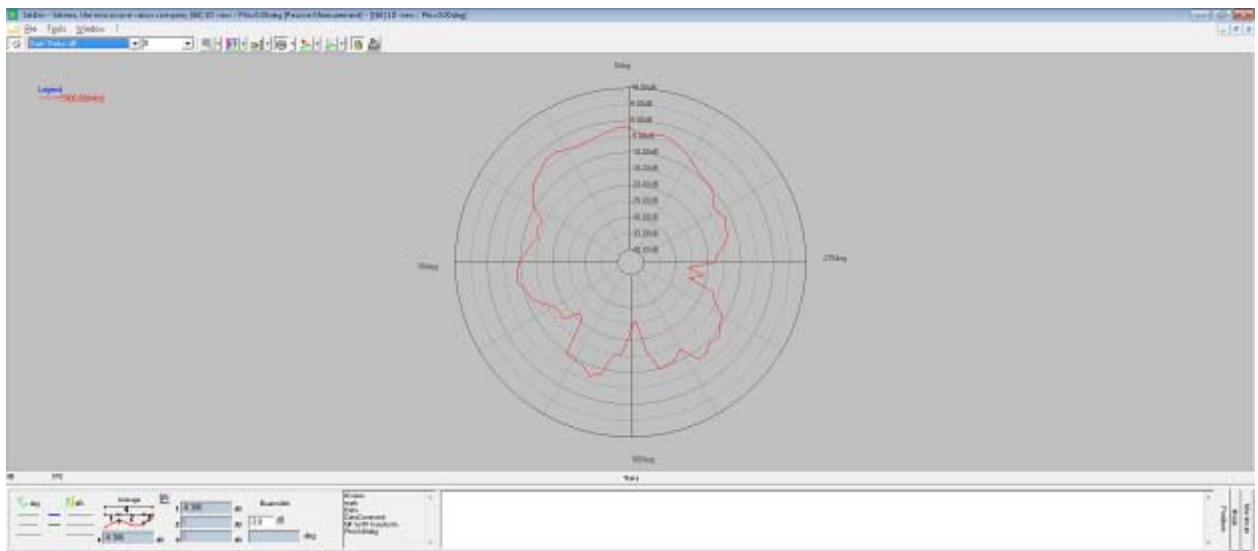Page 24 of 47

4.3.8 5750MHz

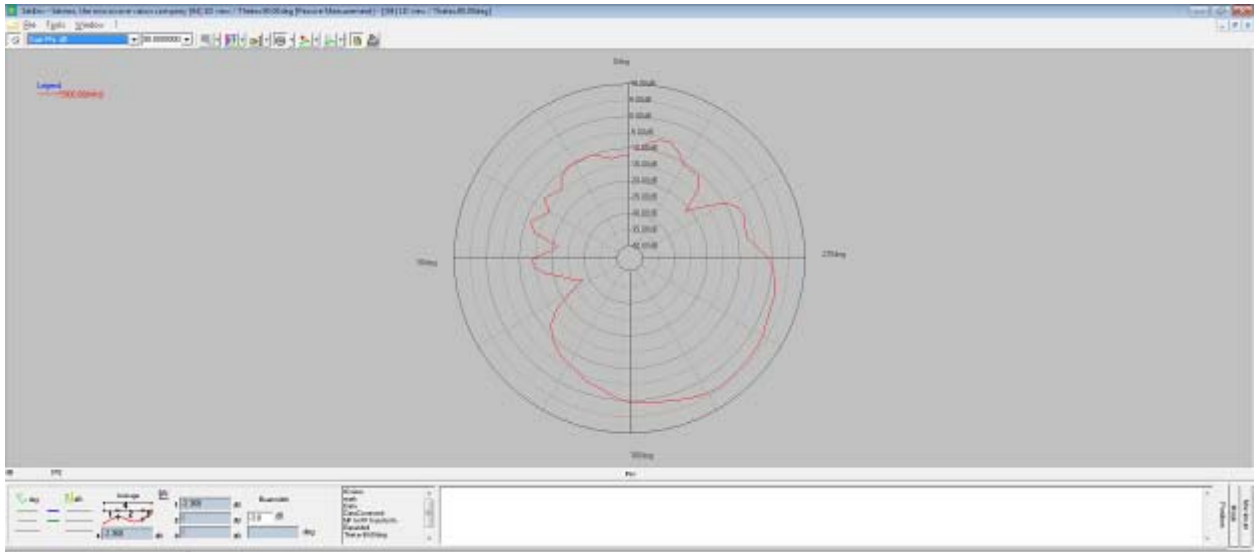

XZ-Phi

XZ-Theta

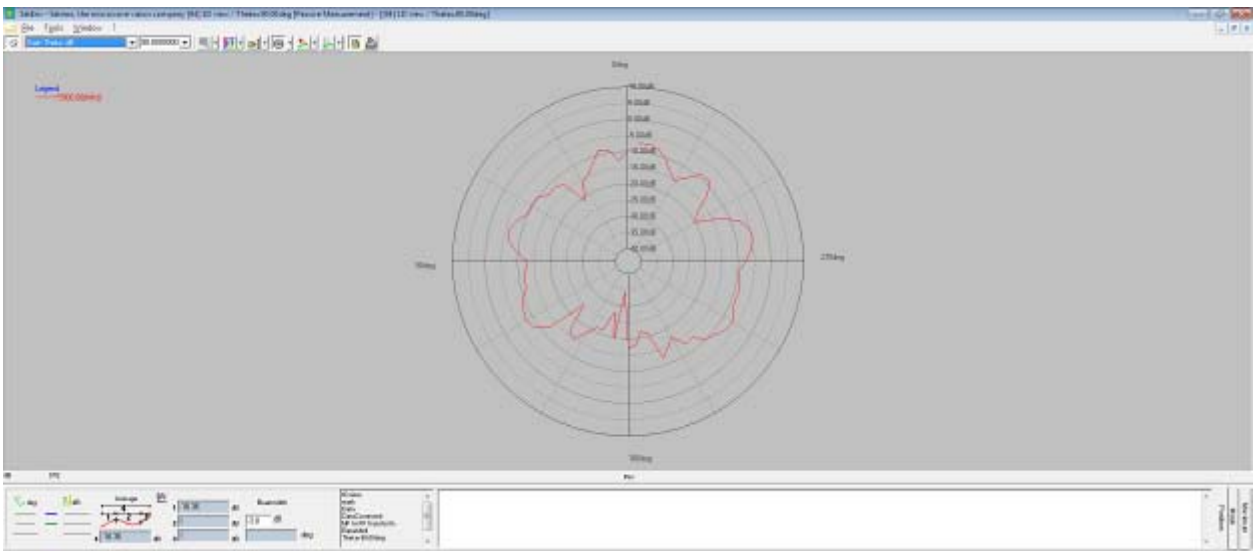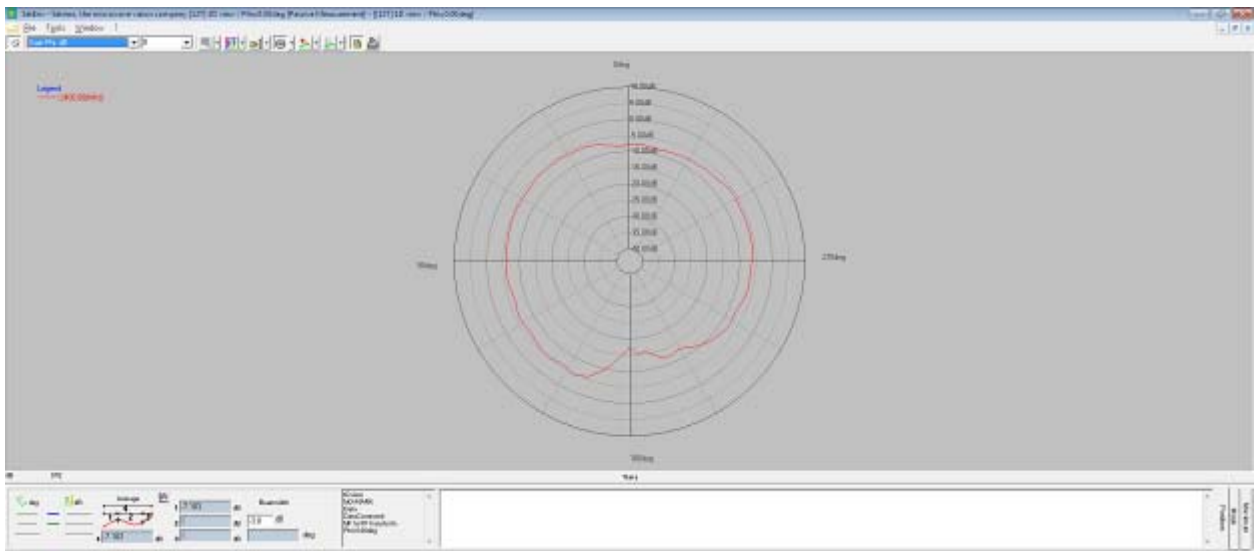**XY-Phi**

XY-Theta

4.3.9 5900MHz

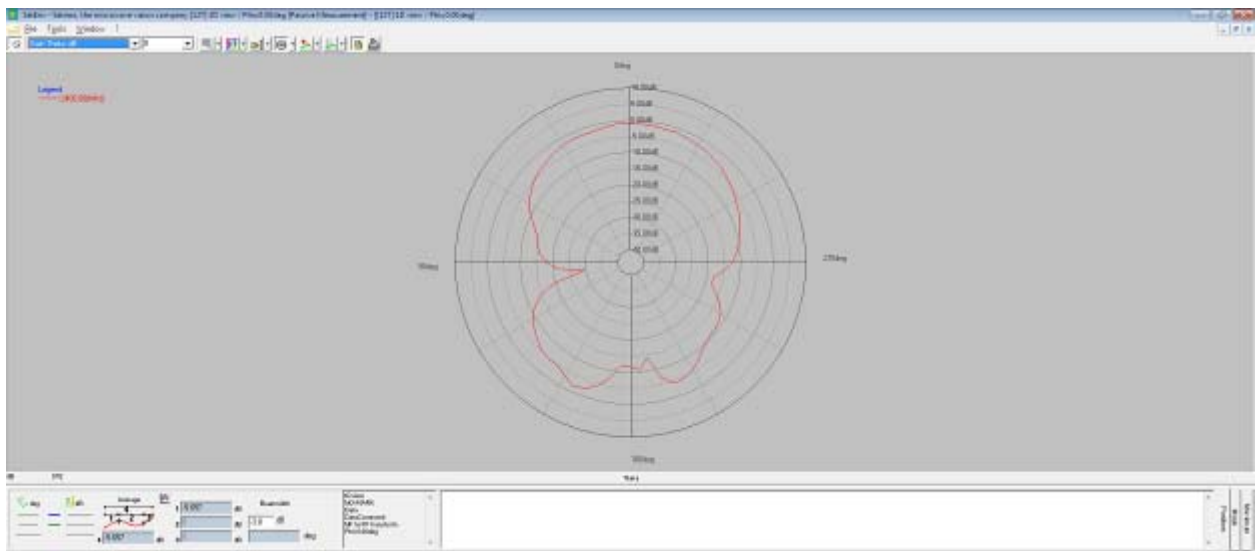**XZ-Phi**

XZ-Theta

XY-Phi

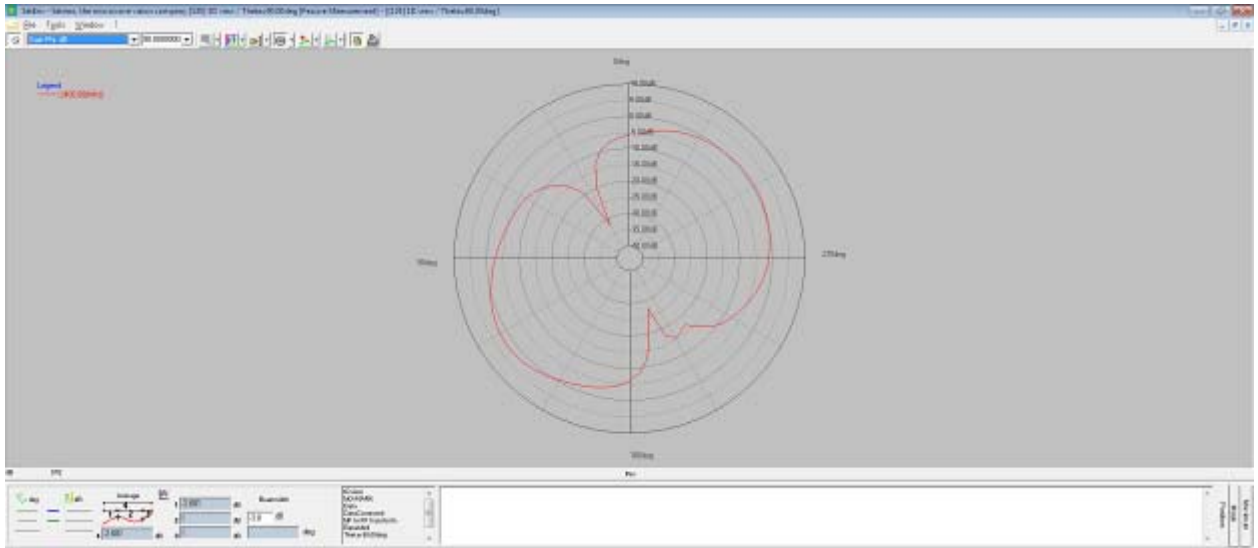**XY-Theta**
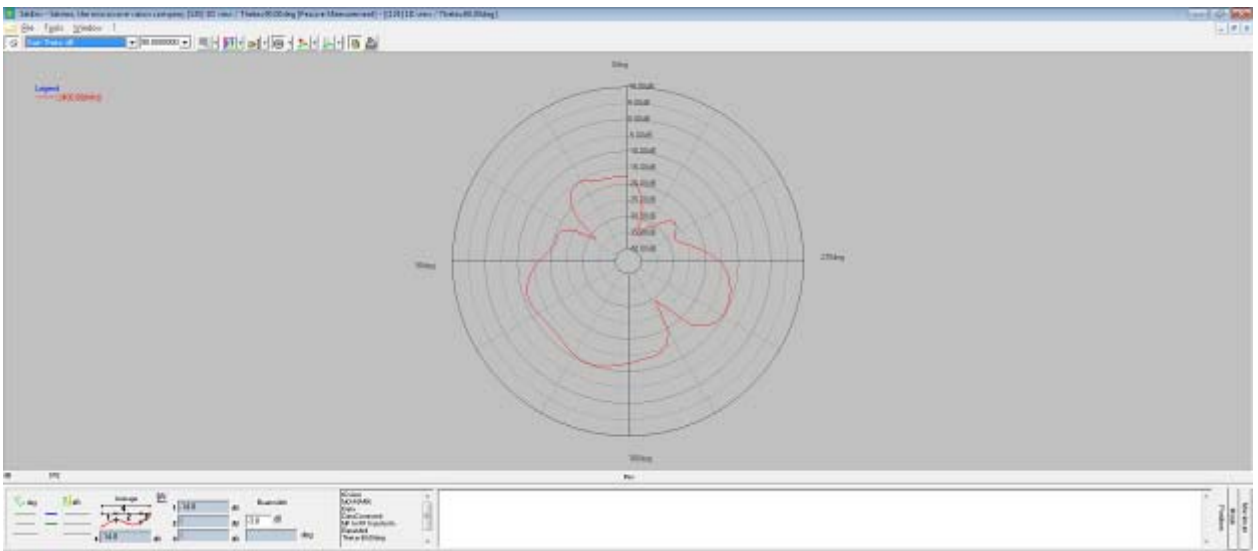
4.4   co port & cross port-Ant2
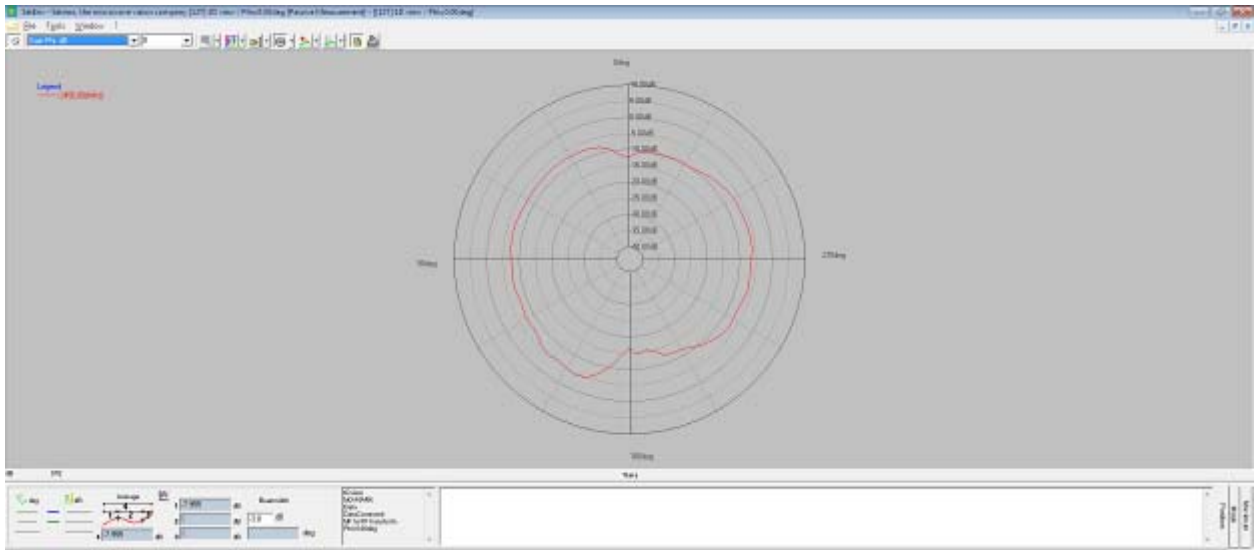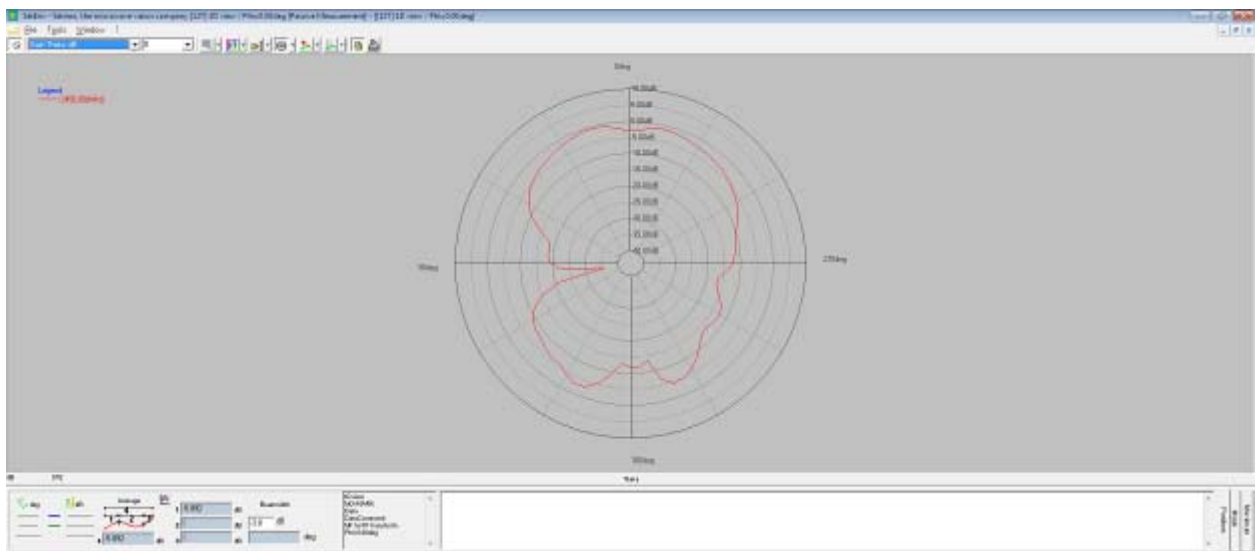
4.4.1 2400MHz

XZ-Phi
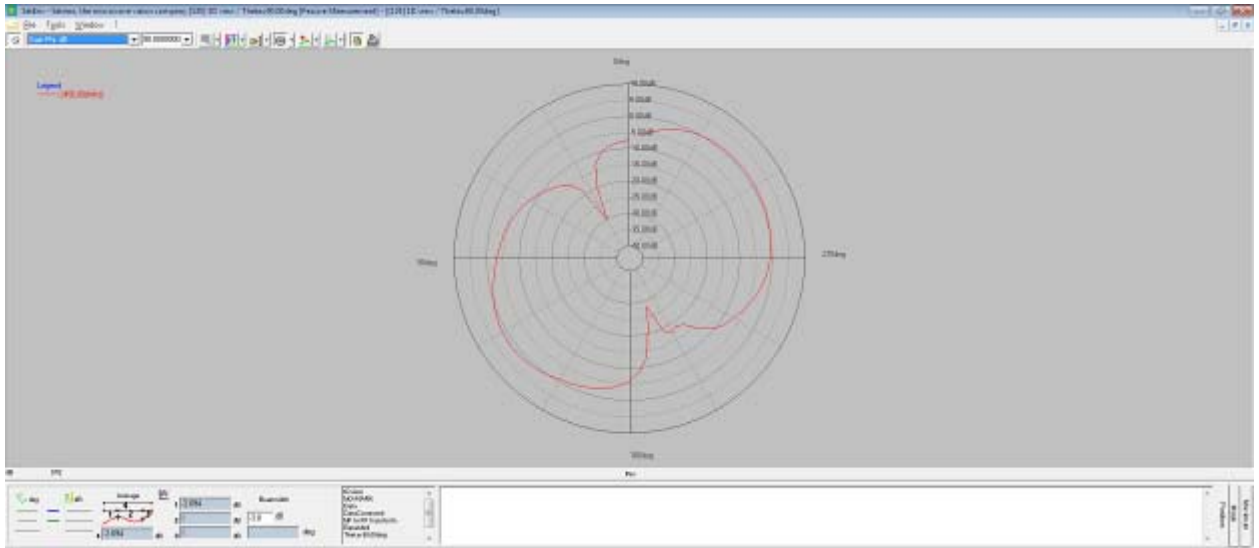

XZ-Theta
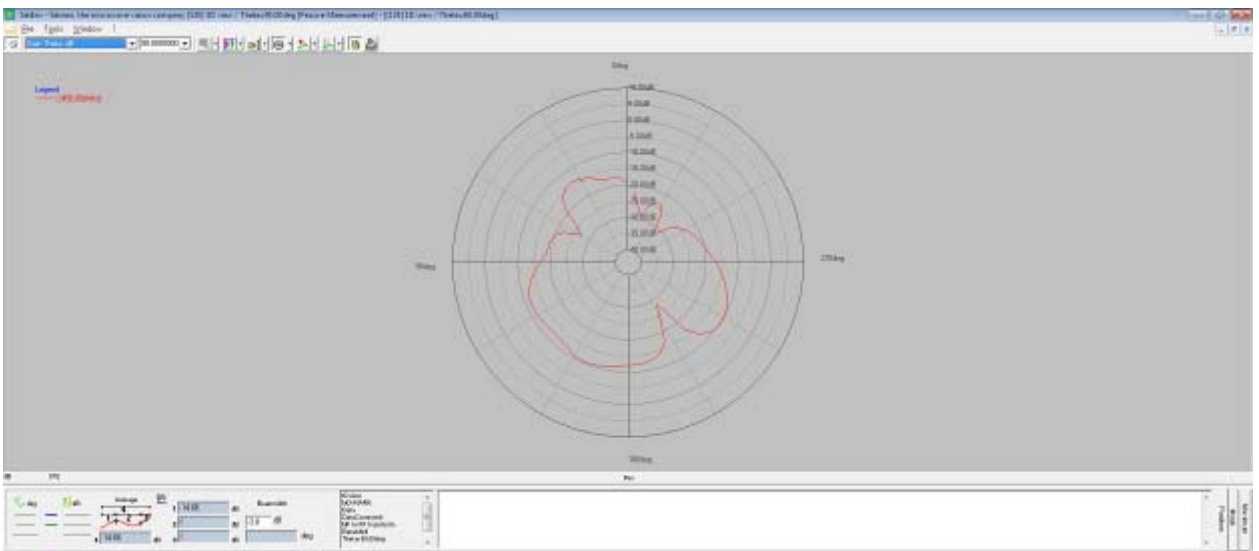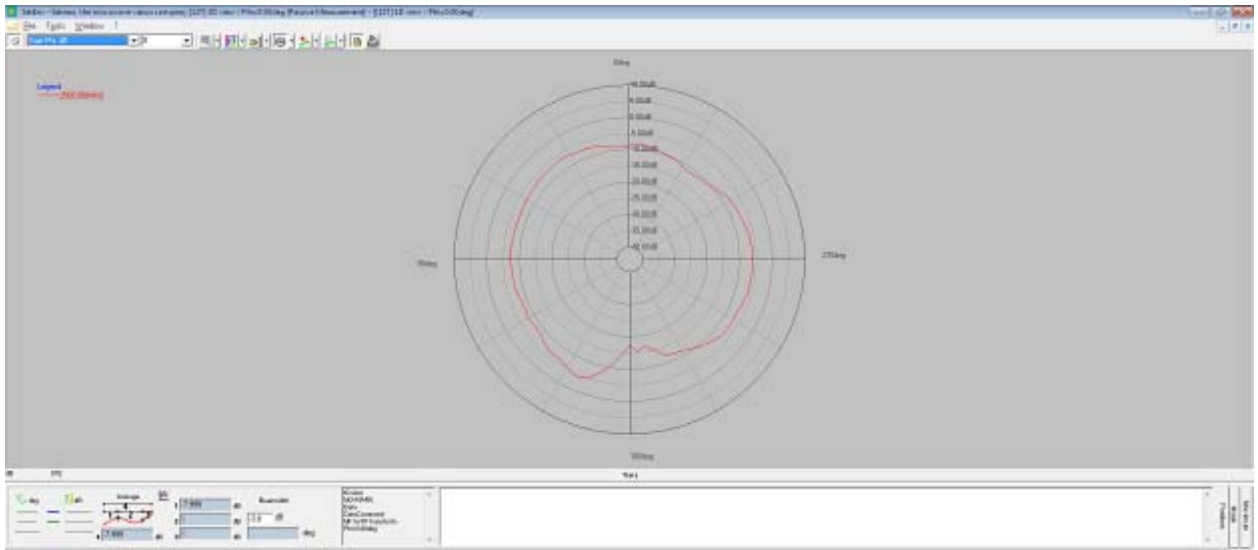
XY-Phi

XY-Theta
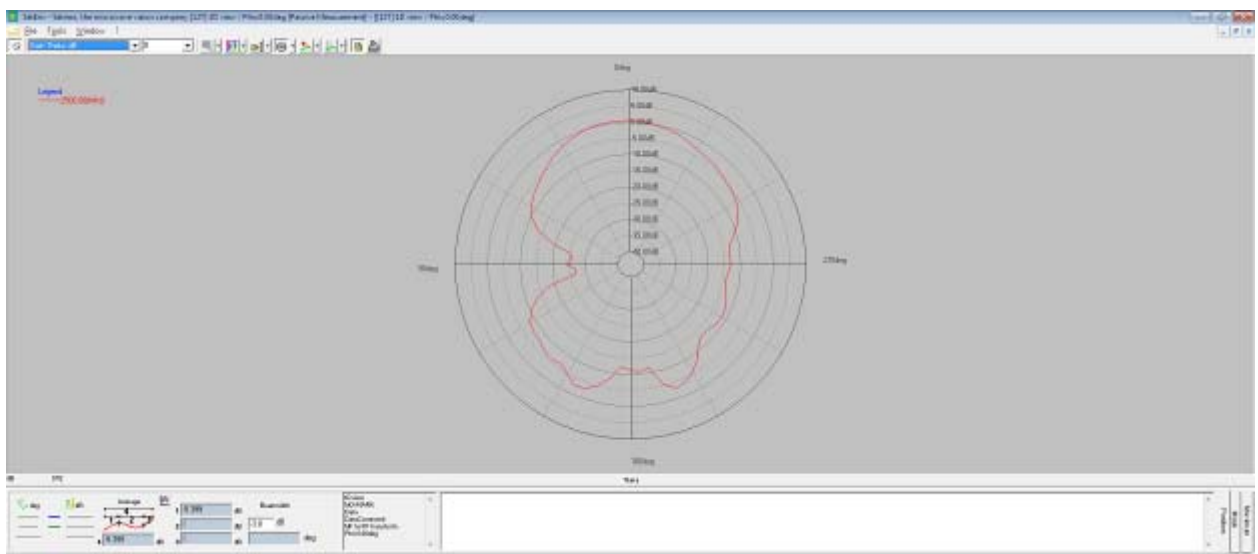
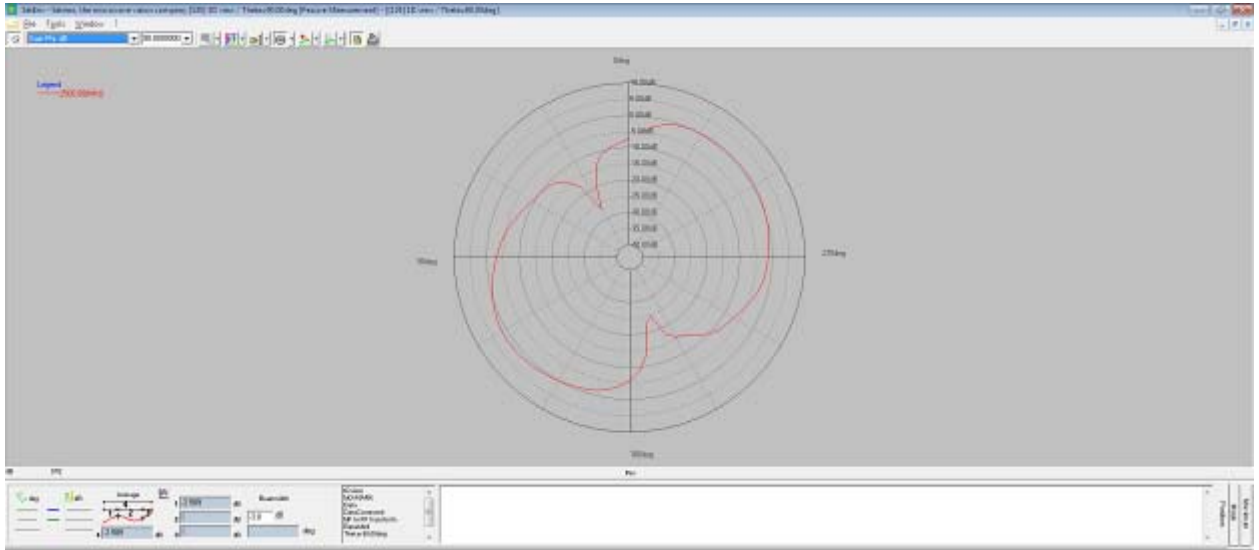## 4.4.2 2450MHz

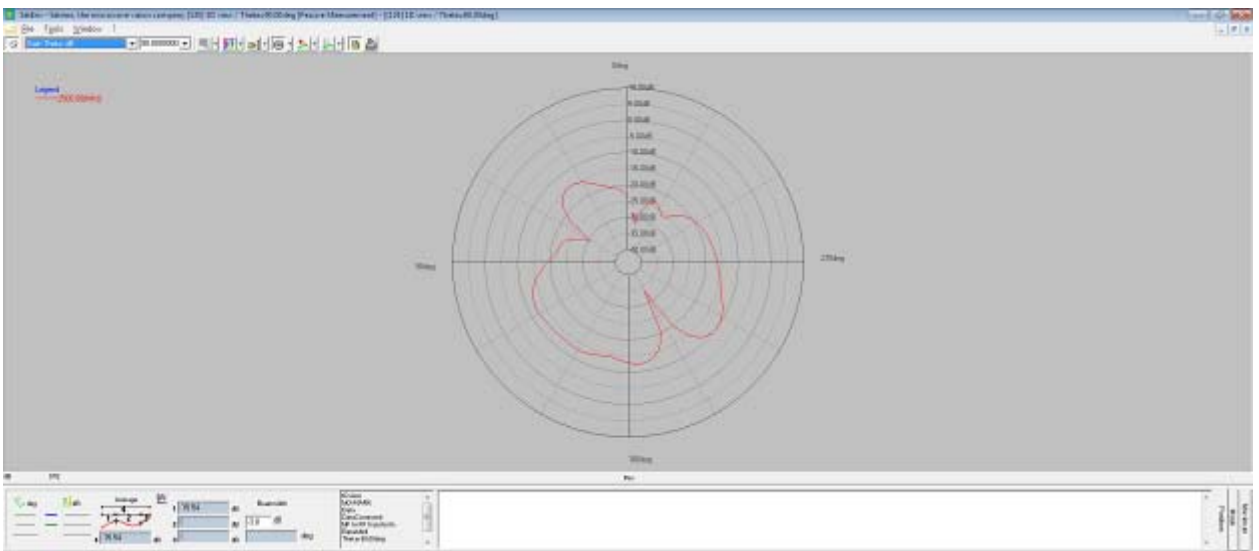**XZ-Phi**

XZ-Theta
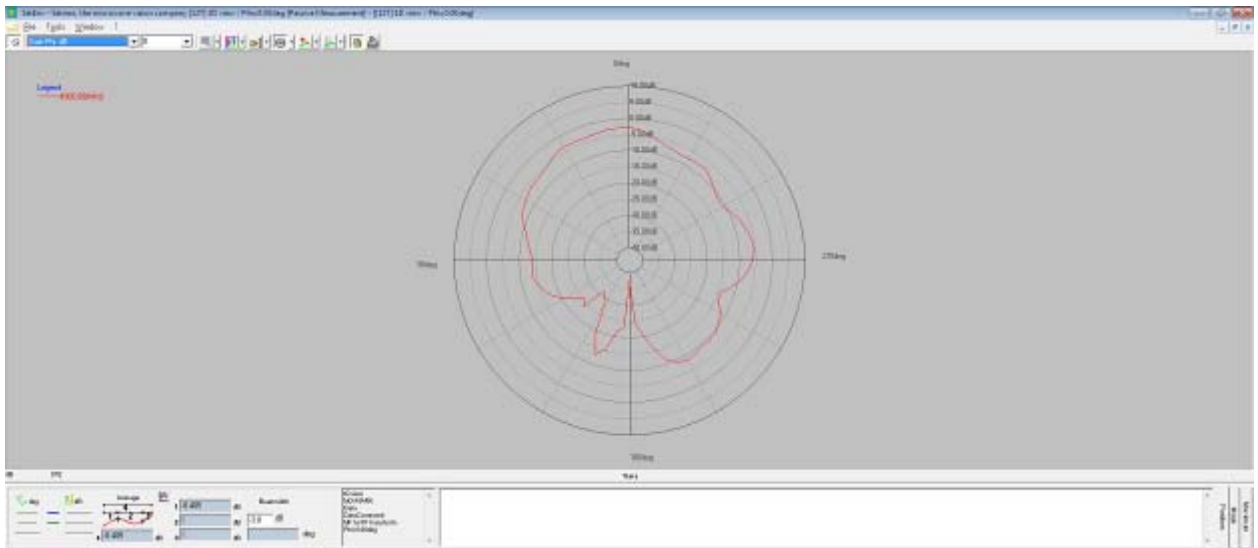
XY-Phi
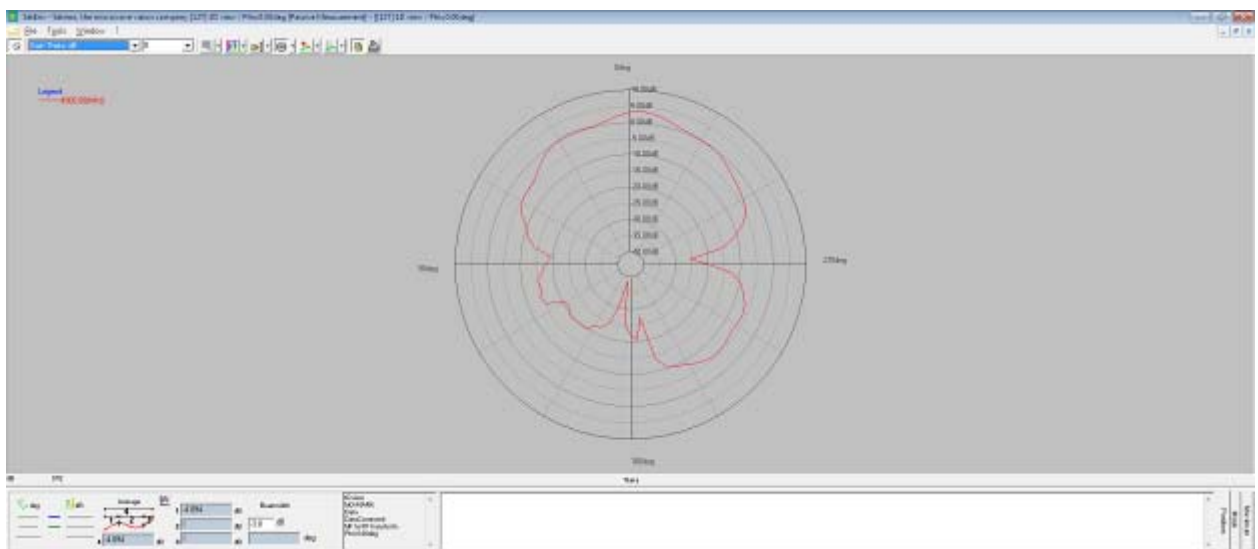

XY-Theta

4.4.3 2500MHz

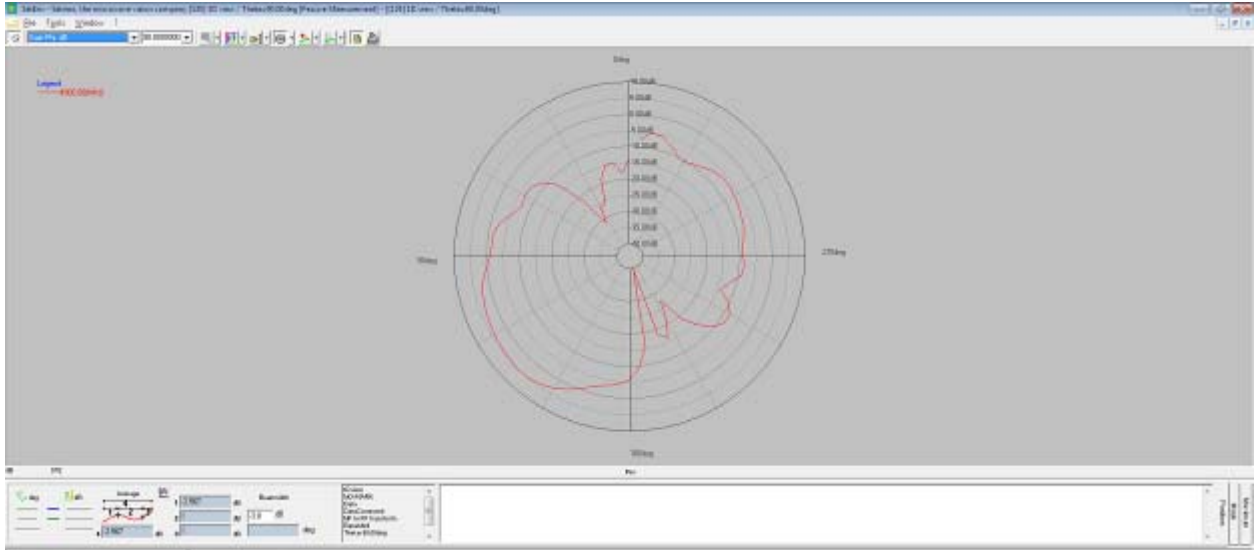**XZ-Phi**

XZ-Theta

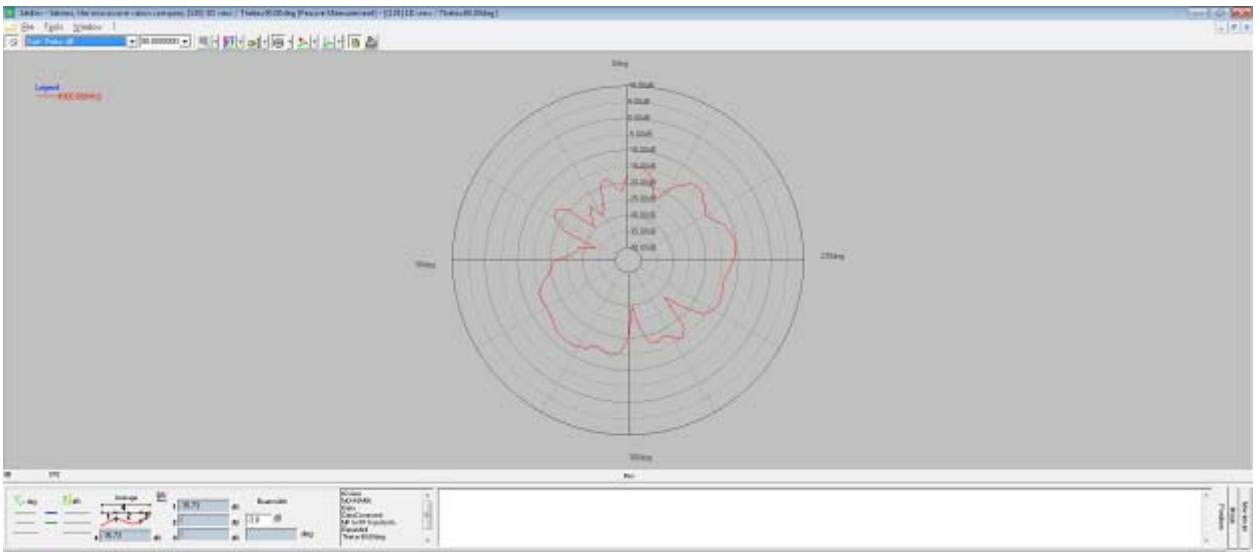**XY-Phi**

XY-Theta

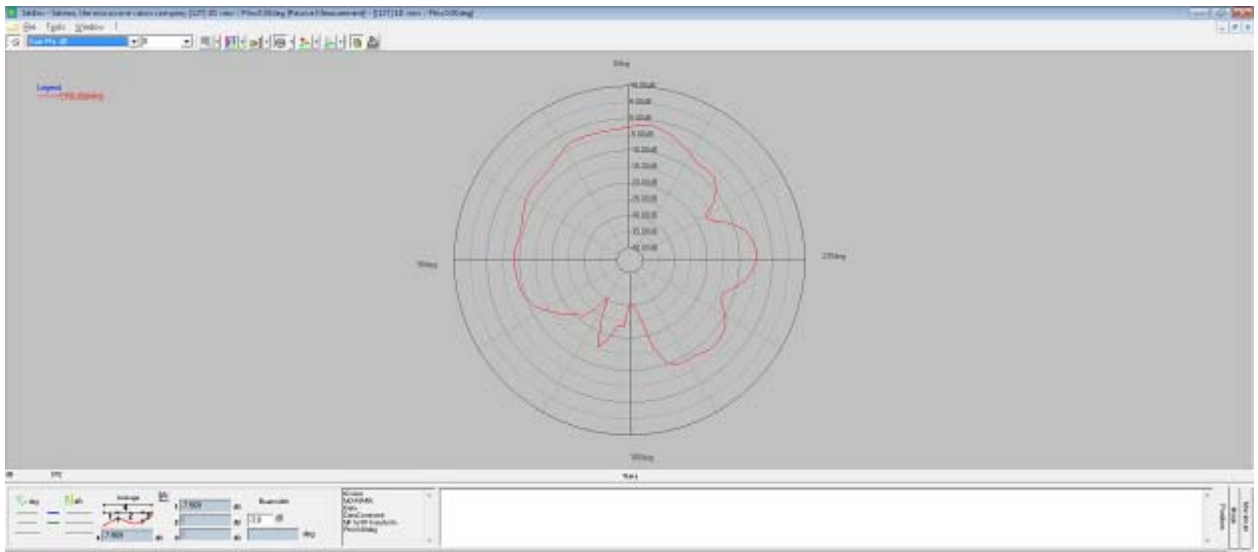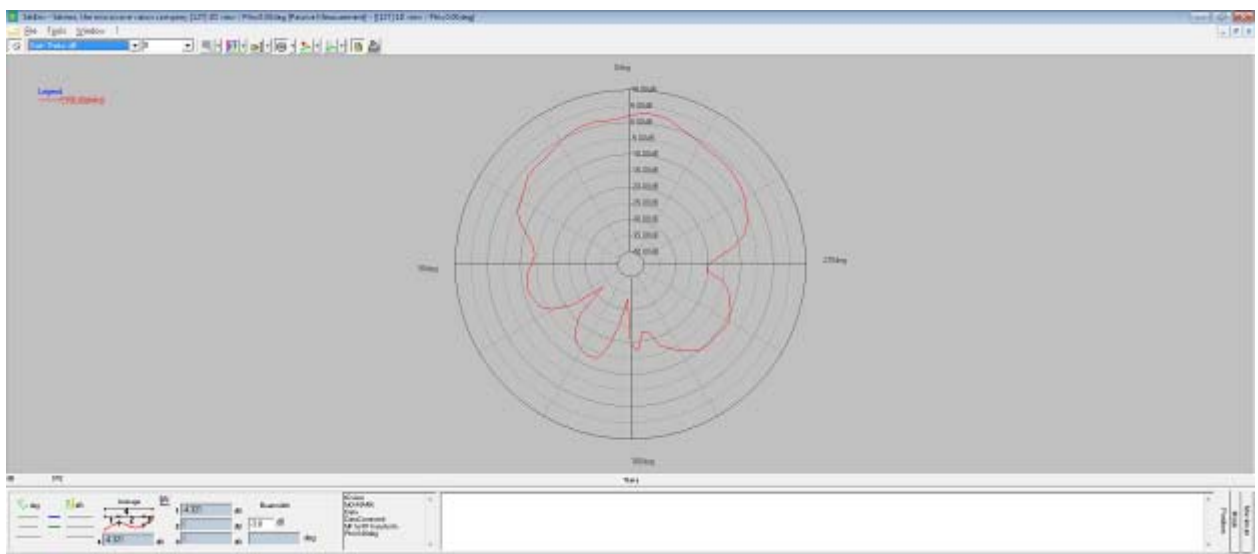# 4.4.4 4900MHz

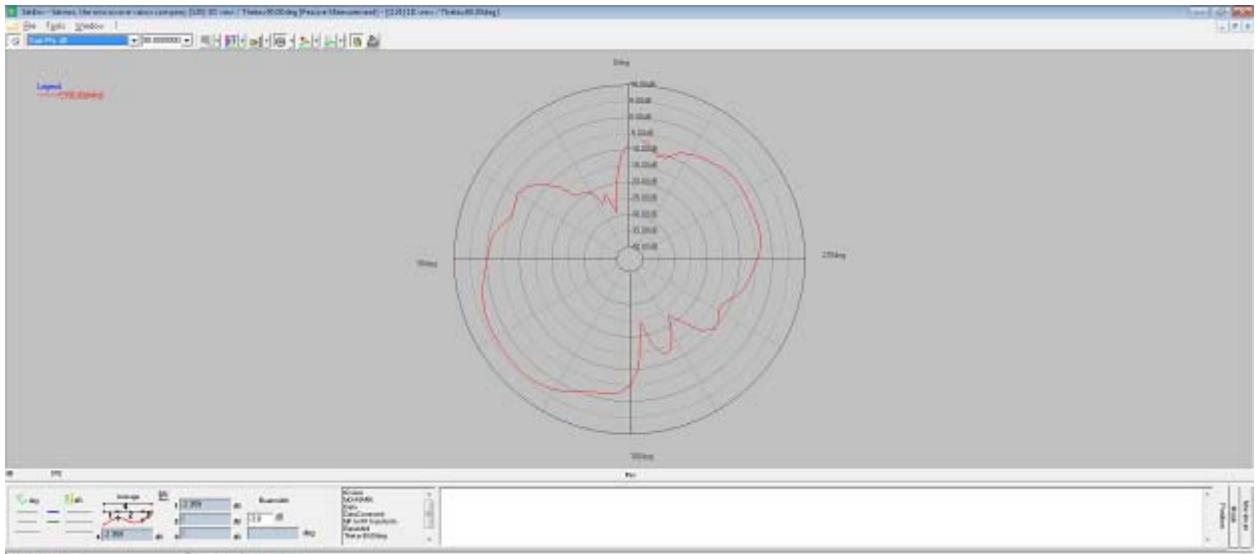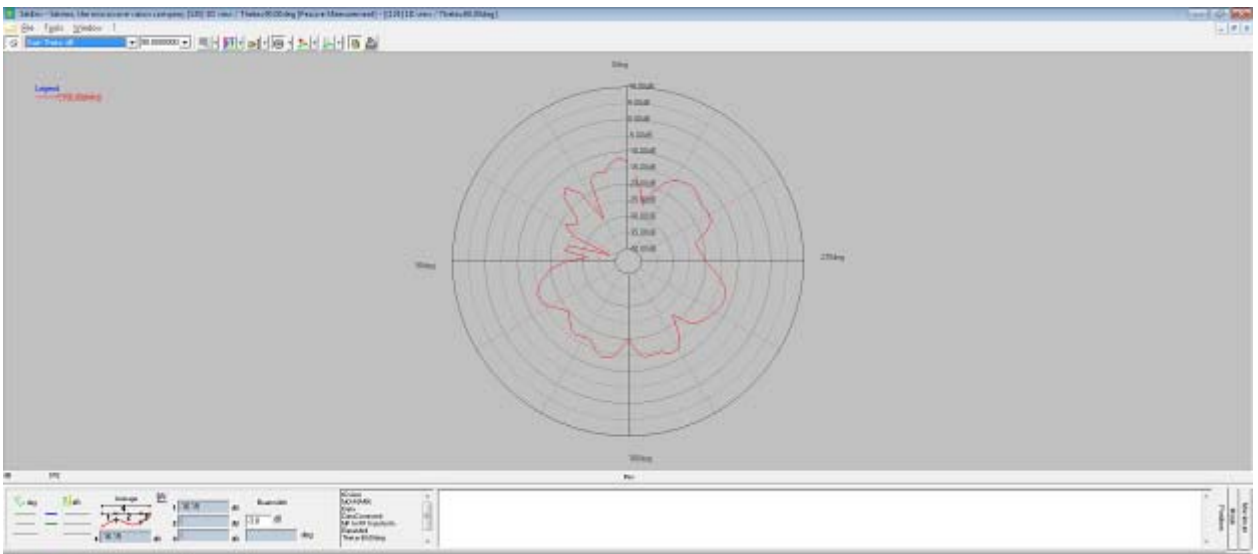**XZ-Phi**

XZ-Theta

XY-Phi

XY-Theta
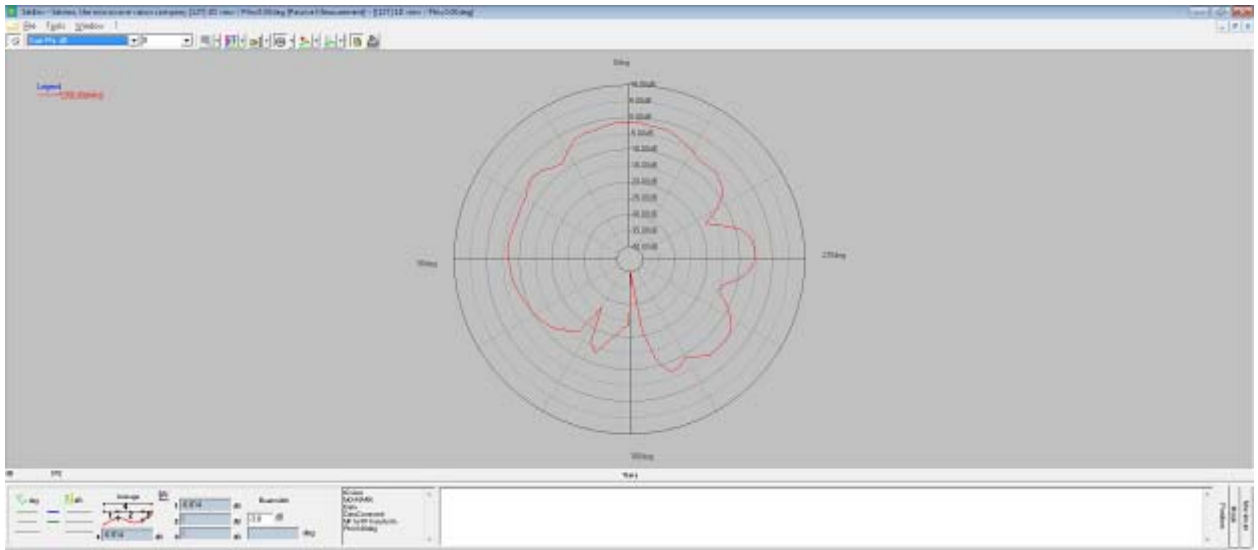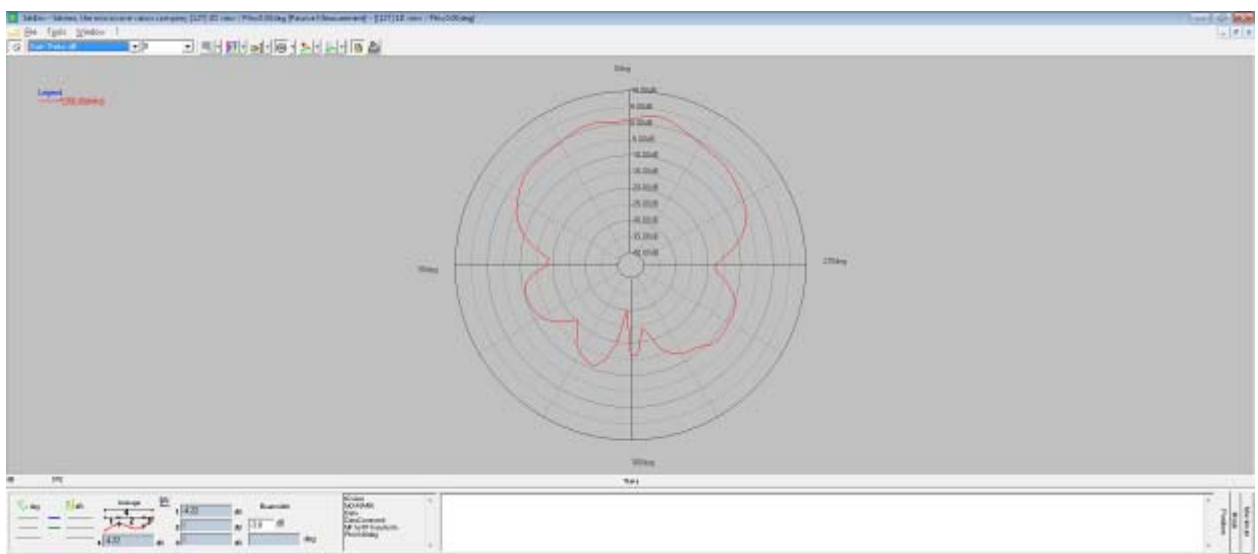
4.4.5 5150MHz

XZ-Phi

XZ-Theta

XY-Phi

XY-Theta

4.4.6 5350MHz
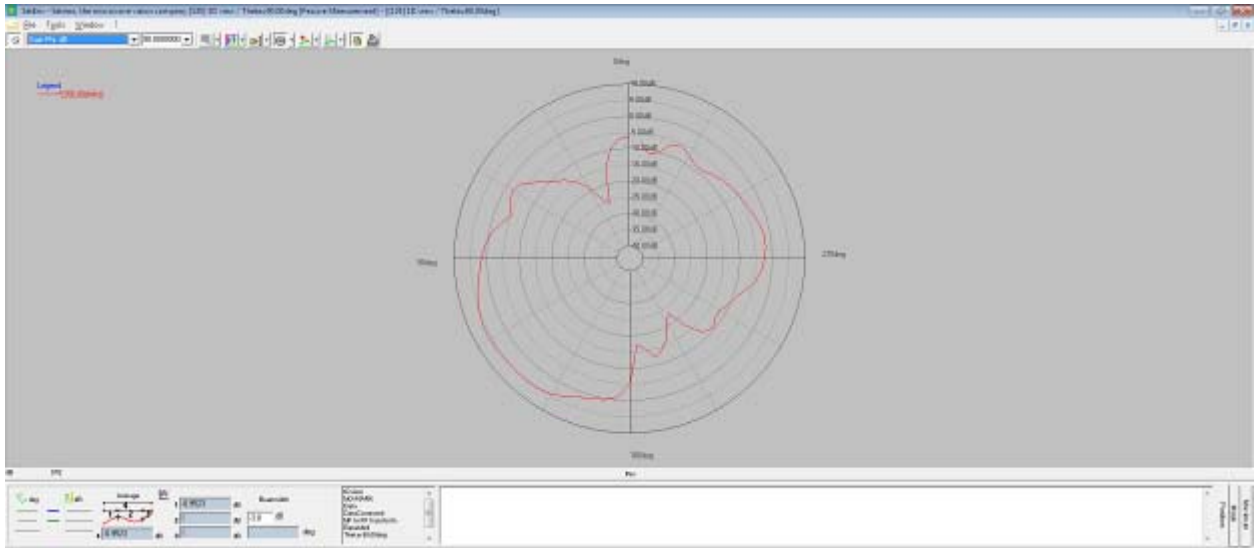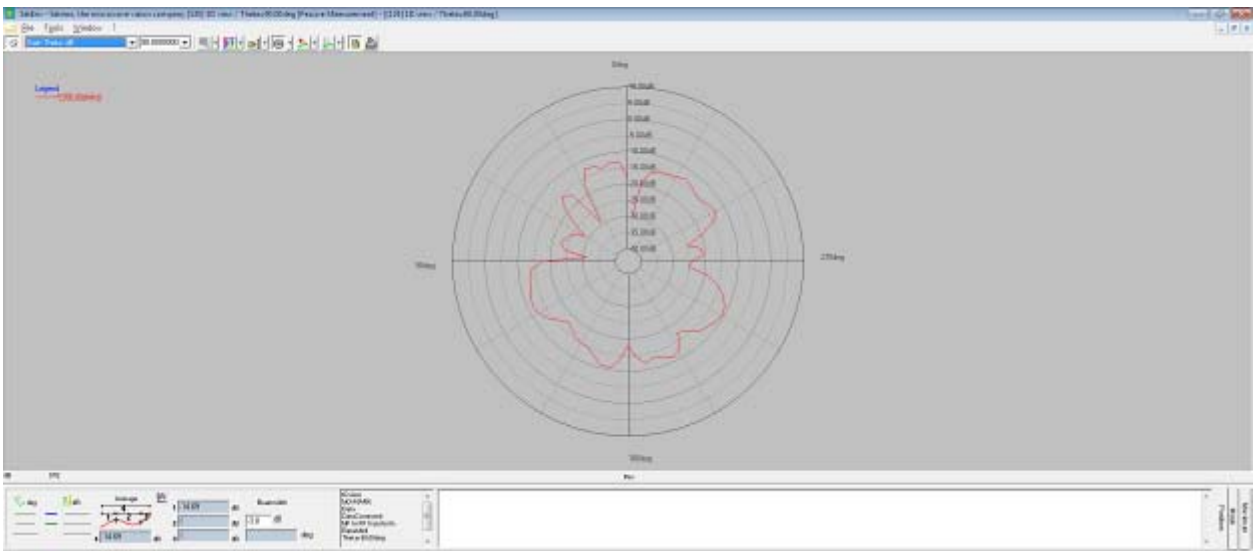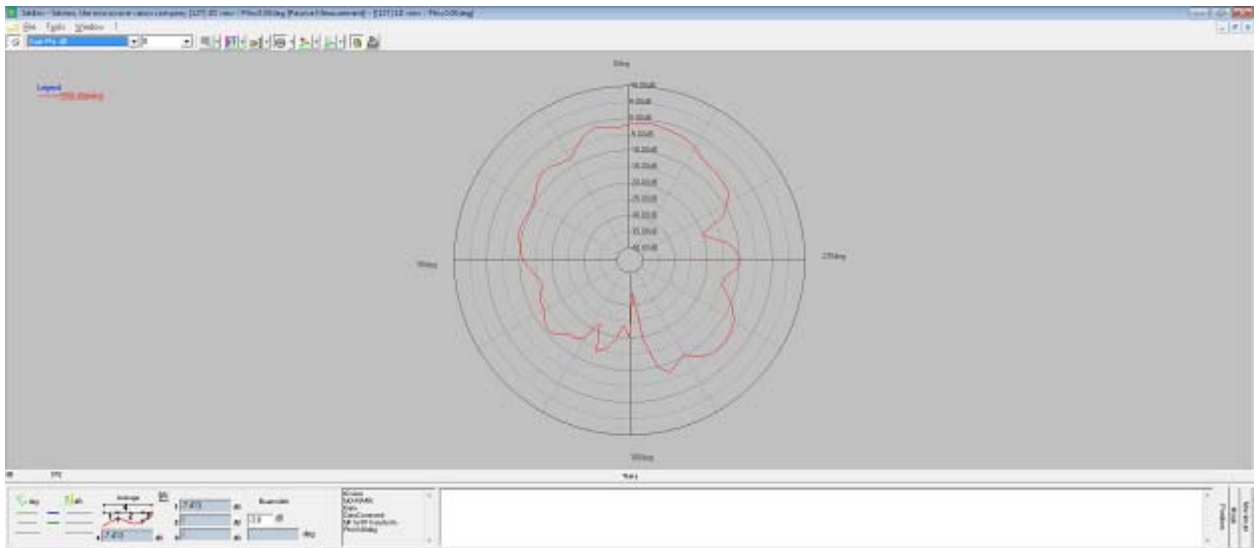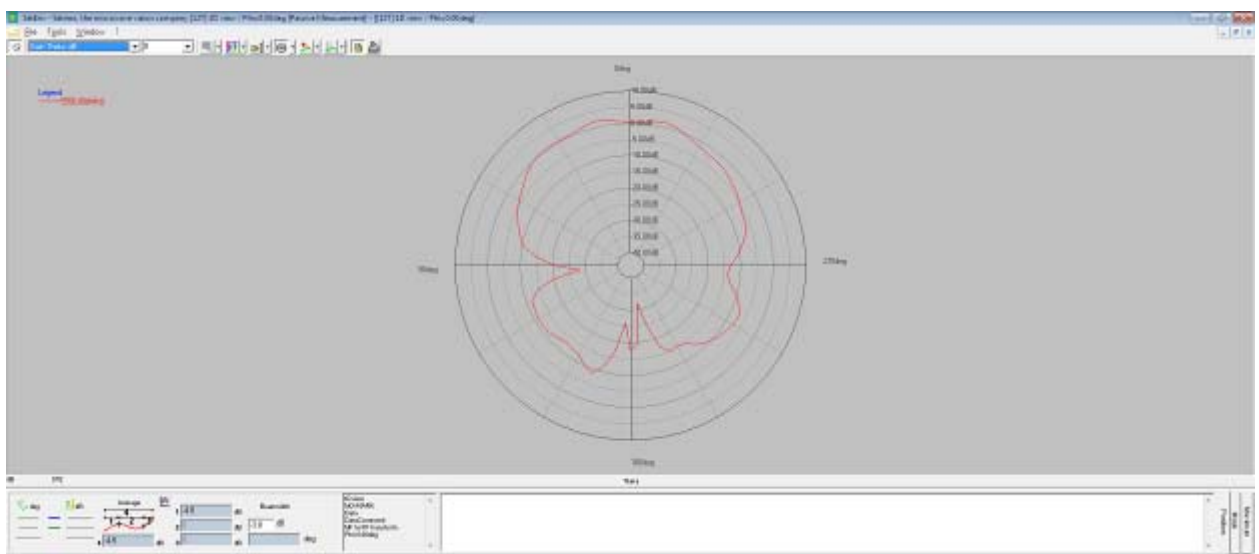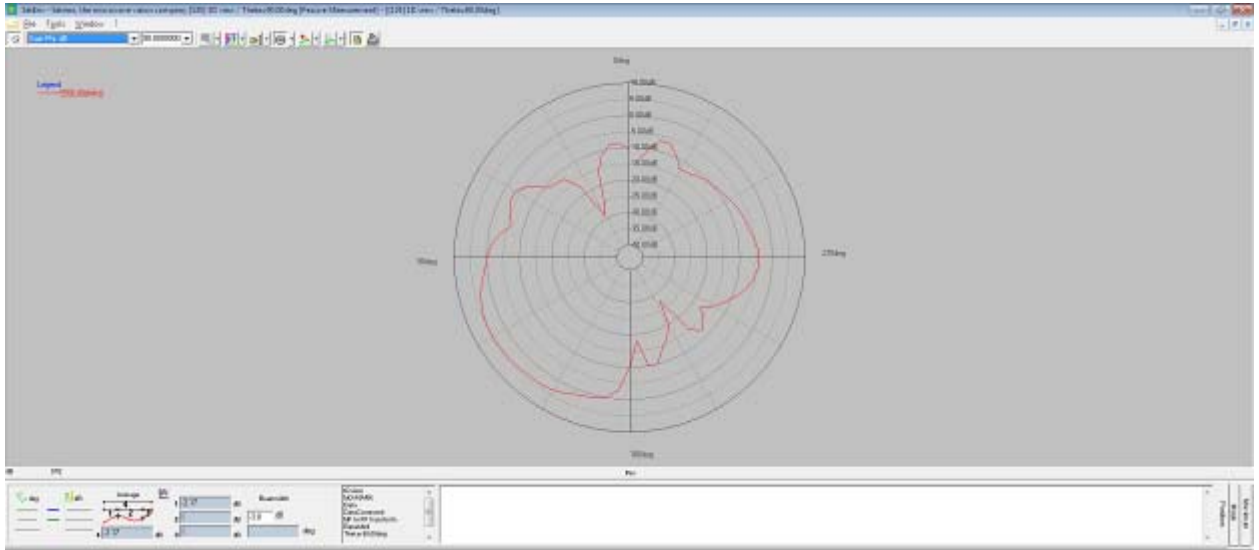

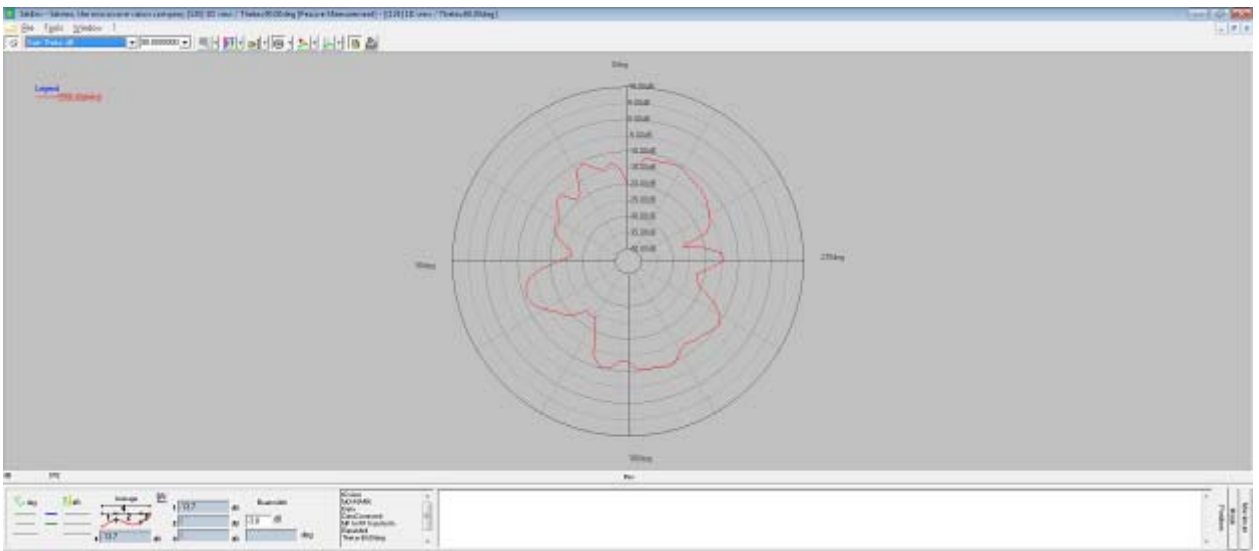**XZ-Phi**

XZ-Theta
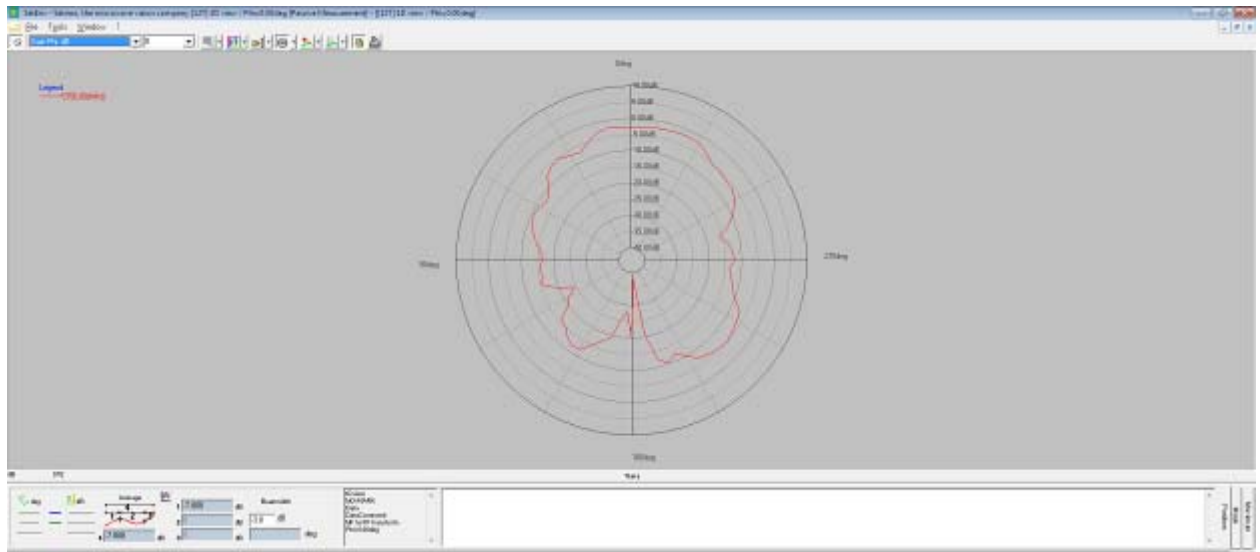
XY-Phi
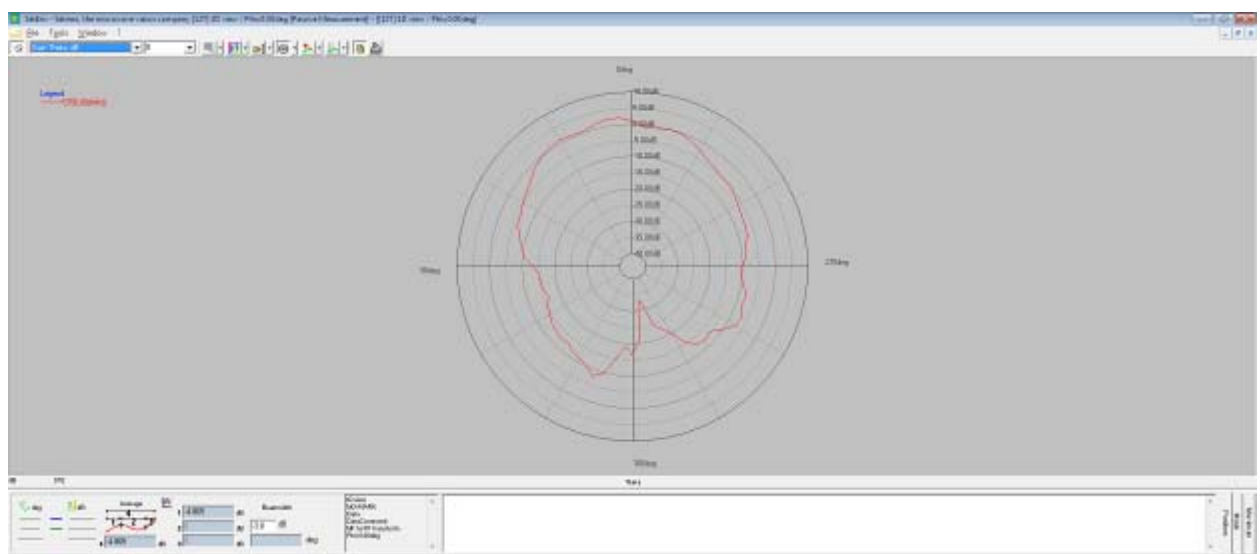

XY-Theta

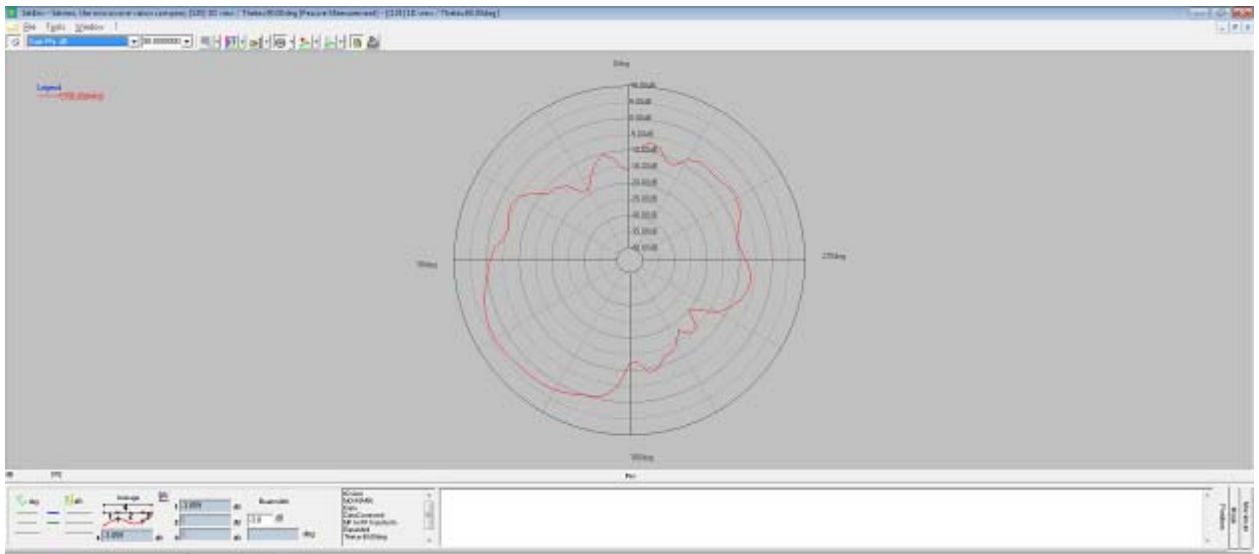## 4.4.7 5550MHz

XZ-Phi

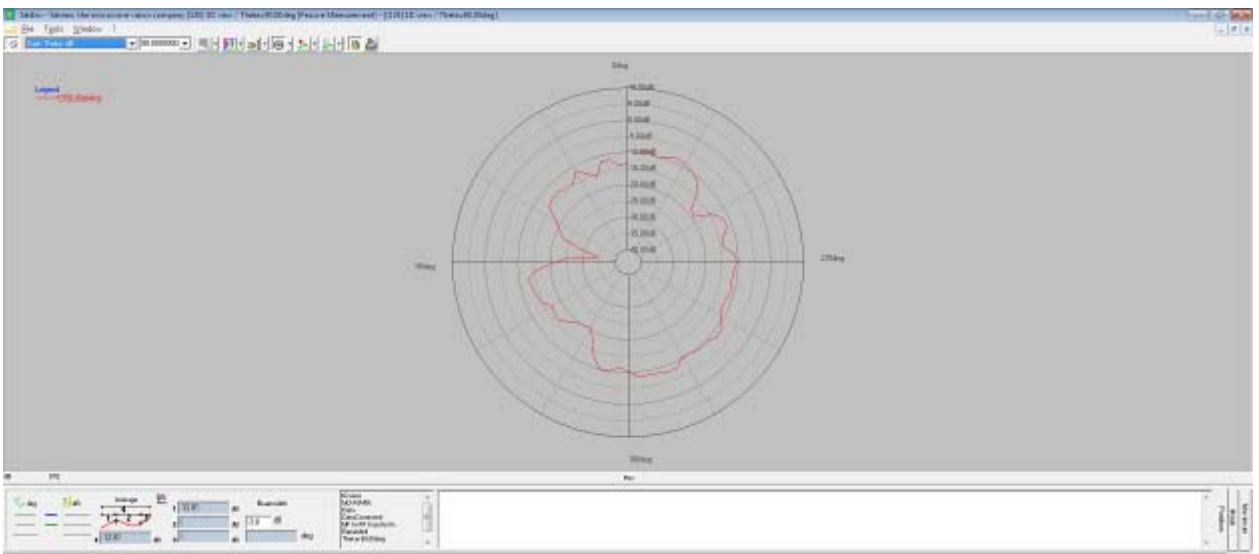**XZ-Theta**

XY-Phi

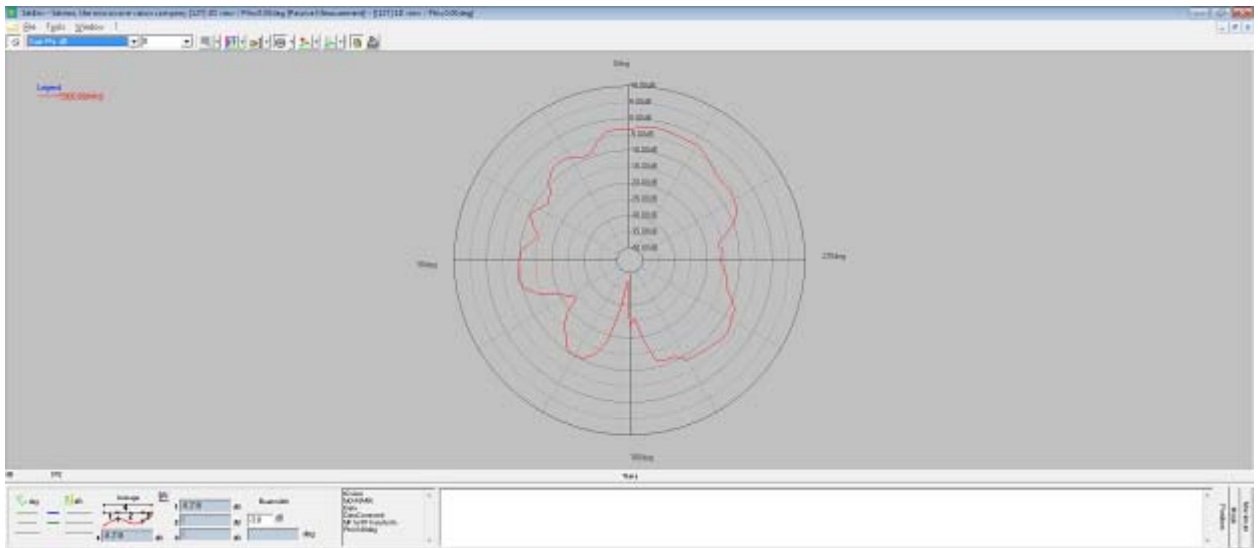**XY-Theta**

4.4.8 5750MHz

XZ-Phi

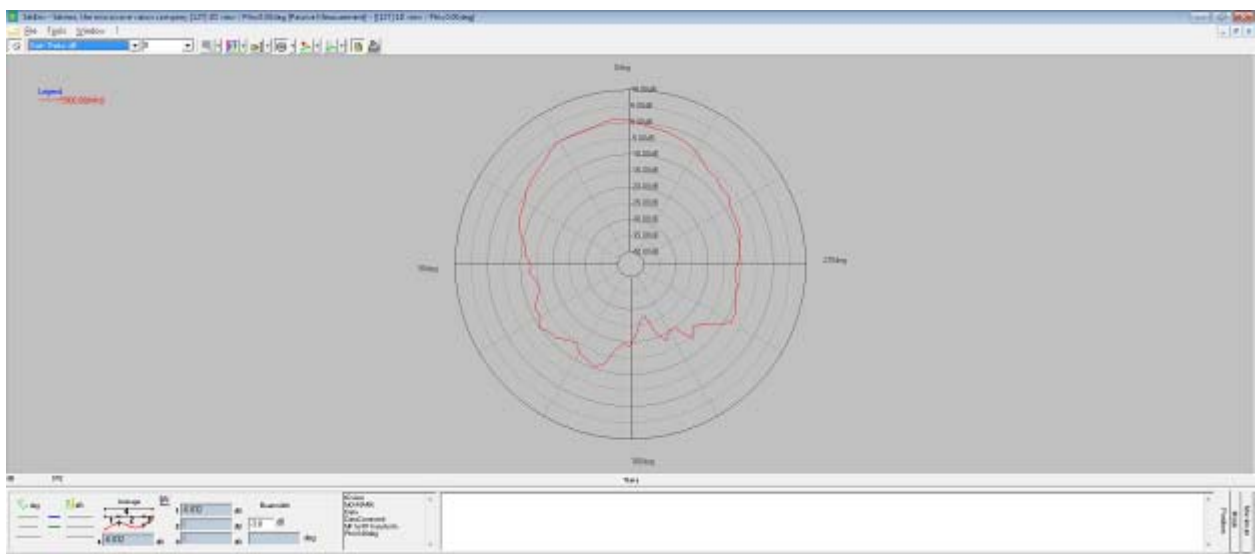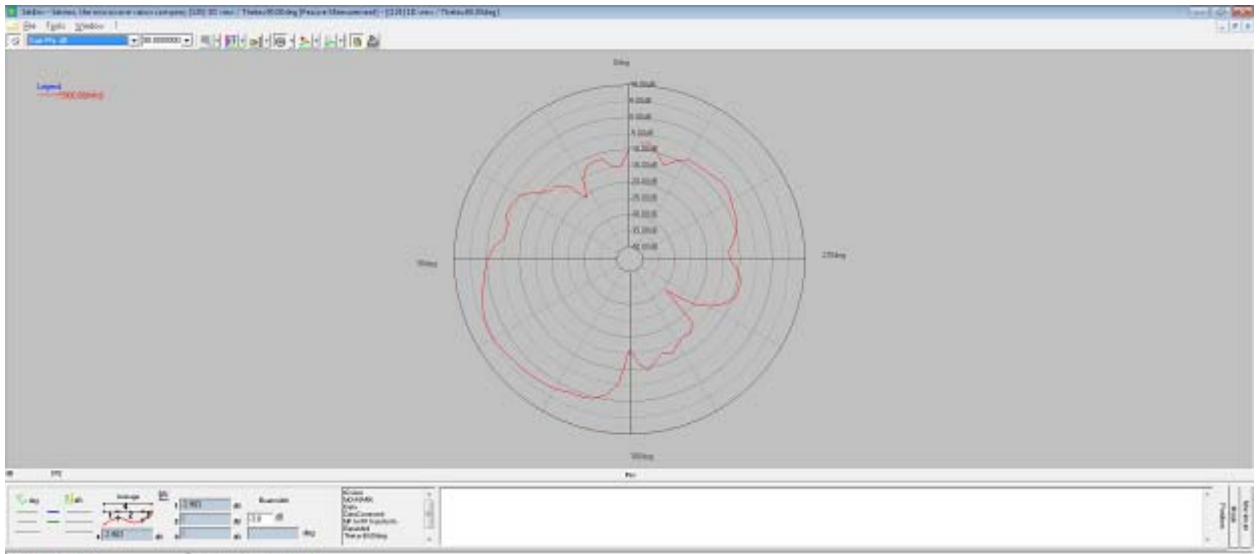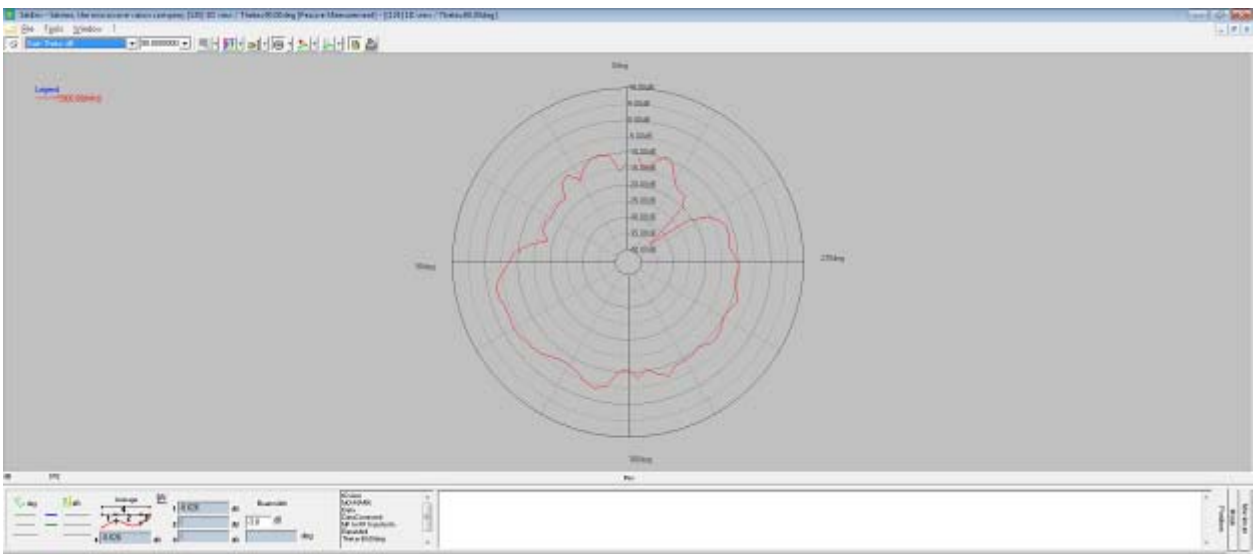**XZ-Theta**

XY-Phi

XY-Theta

4.4.9 5900MHz

XZ-Phi

XZ-Theta

XY-Phi

XY-Theta