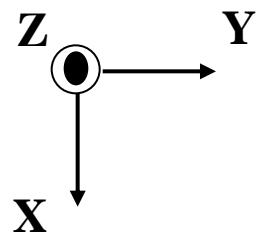


# **PCB Antenna Simulation**

# PCB Antenna pattern

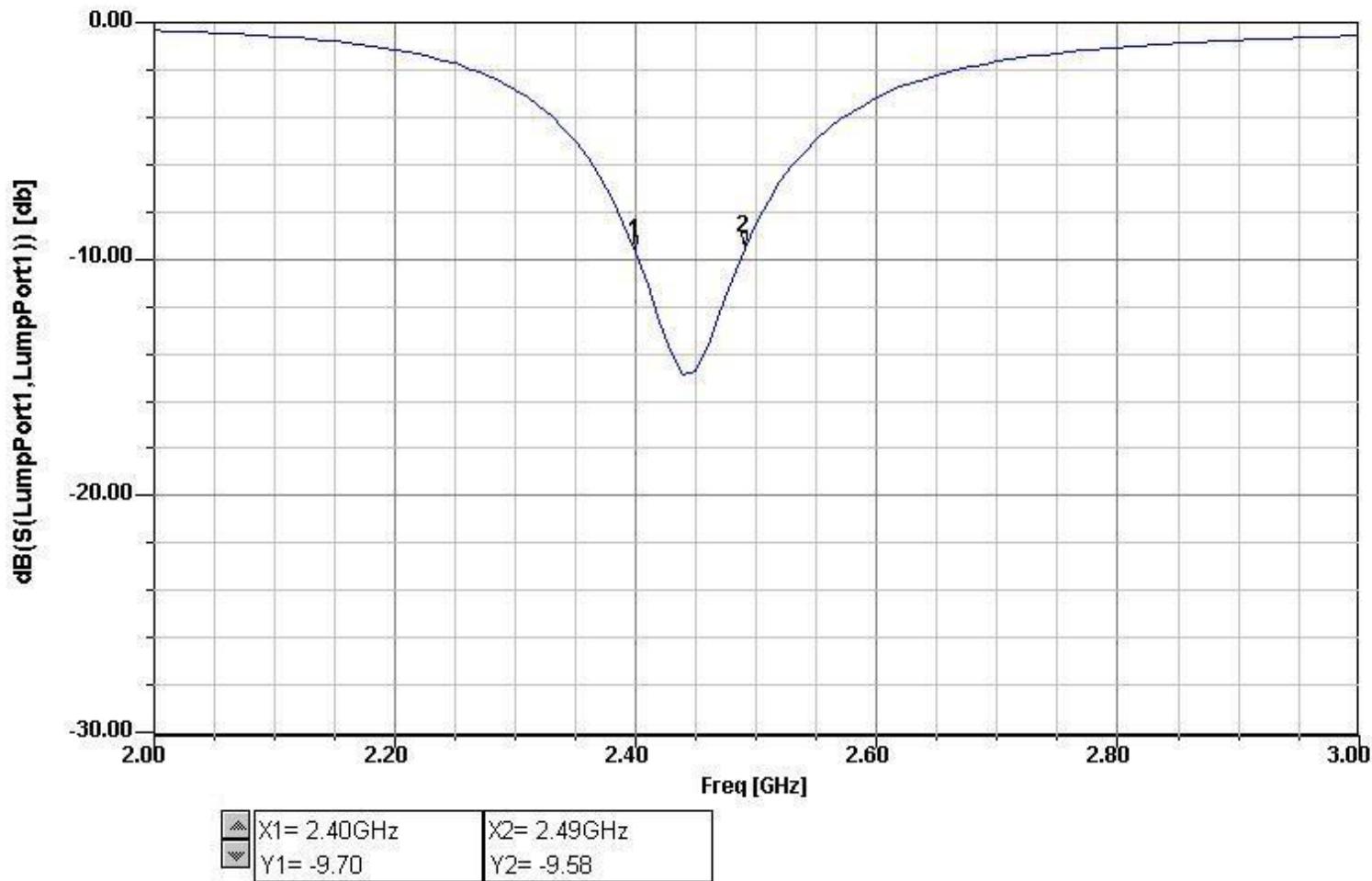


# PCB Antenna Simulation

## (S11)

Ansoft Corporation  
XY Plot 1  
HFSSDesign1

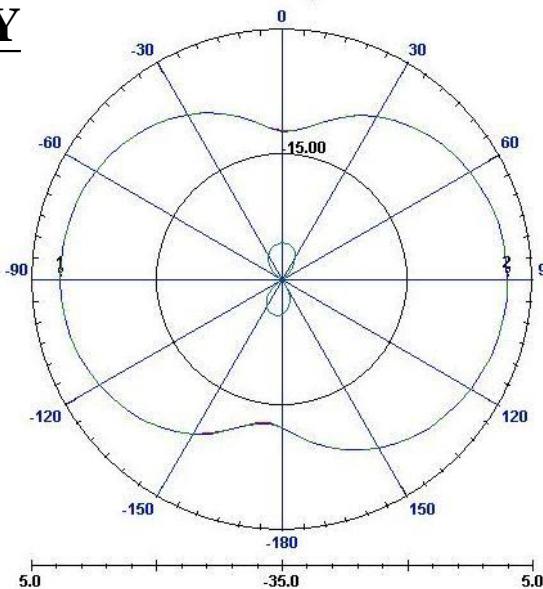
**BW(RL<10dB) : 90 MHz**



# PCB Antenna Simulation

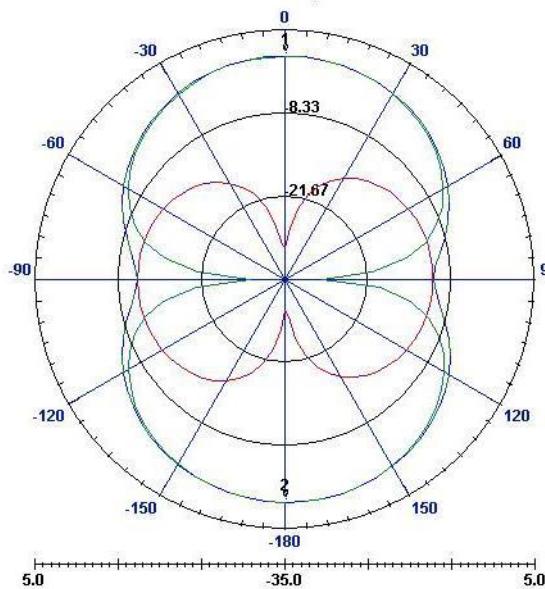
## (Radiation)

XY



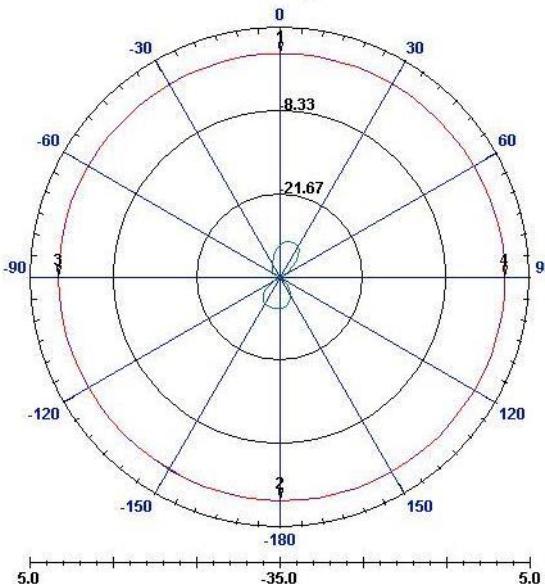
	M1 = 0.458
	P1 = 270.000
	270.000deg
	M2 = 0.944
	P2 = 90.000
	90.000deg

XZ



	M1 = 0.753
	P1 = 0.000
	0.000deg
	M2 = 0.655
	P2 = 180.000
	180.000deg

YZ



	M1 = 0.753
	P1 = 360.000
	360.000deg
	M2 = 0.655
	P2 = 180.000
	180.000deg
	M3 = 0.458
	P3 = 270.000
	270.000deg
	M4 = 0.944
	P4 = 90.000
	90.000deg

Efficiency : 76%

Avg. Gain : -1.2 dBi