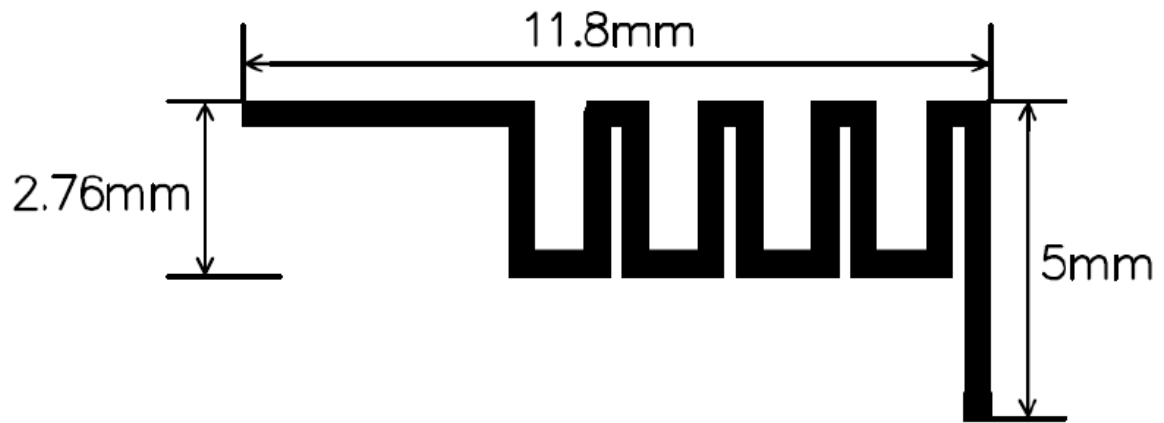


# ANTENNA SPECIFICATION

Antenna Model: TLL511271-ANT

Antenna Type: PCB Antenna

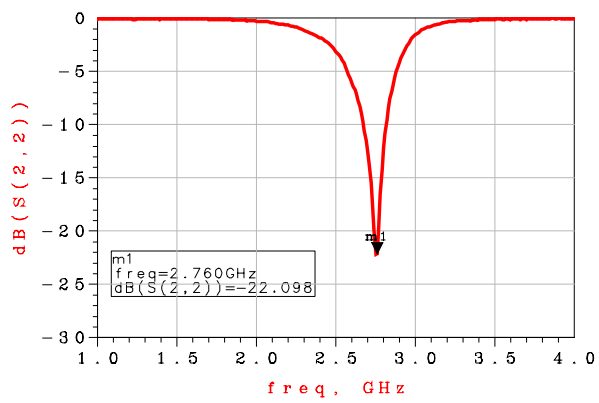


## GAIN AND EFFICIENCY

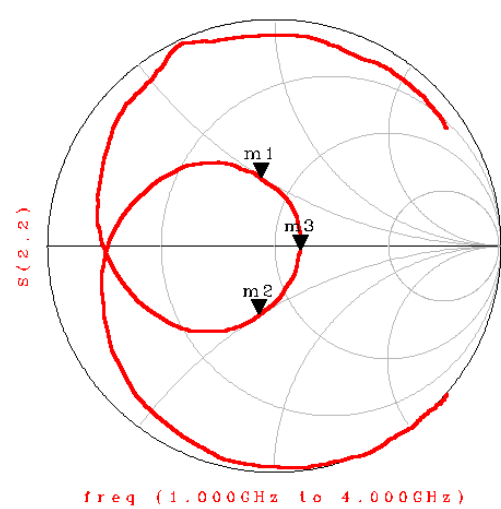
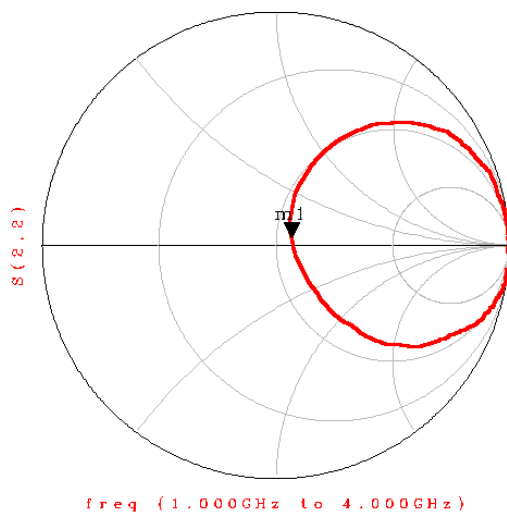
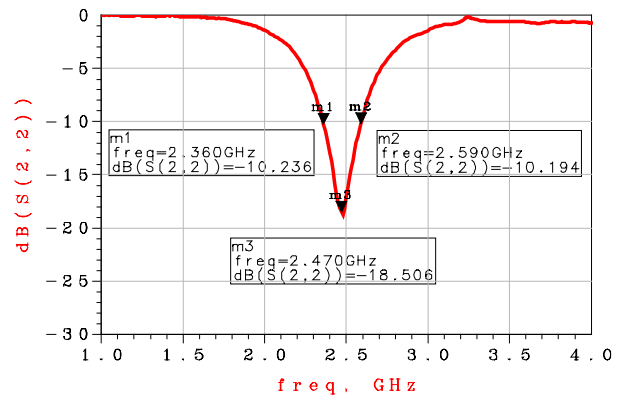
| Frequency(MHz) | Efficiency(dB) | Efficiency(%) | Gain(dBi) |
|----------------|----------------|---------------|-----------|
| 2400           | -4.767         | 33.362        | -8.354    |
| 2410           | -4.865         | 32.617        | -6.354    |
| 2420           | -5.034         | 31.370        | -4.383    |
| 2430           | -5.249         | 29.859        | -4.095    |
| 2440           | -5.867         | 25.899        | -2.346    |
| 2450           | -6.265         | 23.630        | -0.680    |
| 2460           | -6.272         | 23.592        | -1.354    |
| 2470           | -6.377         | 23.025        | -3.752    |
| 2480           | -6.586         | 21.945        | -4.623    |
| 2490           | -6.864         | 20.584        | -3.254    |
| 2500           | -6.928         | 20.284        | -1.687    |

## ❖Return Loss

(a) Without Matching Circuits

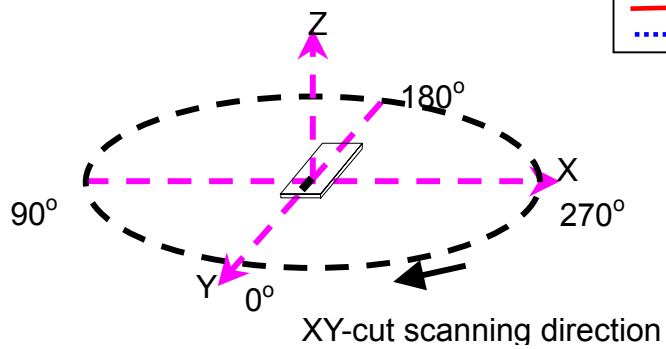


(b) With Matching Circuits

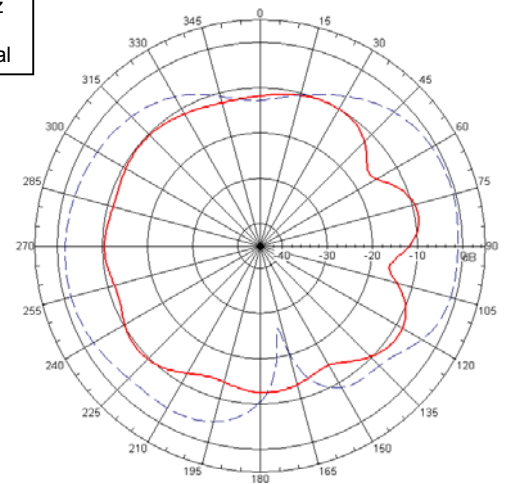


## Radiation Patterns

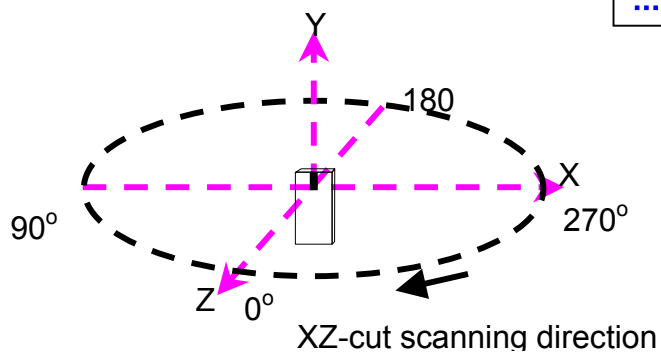
XY-V/XY-H



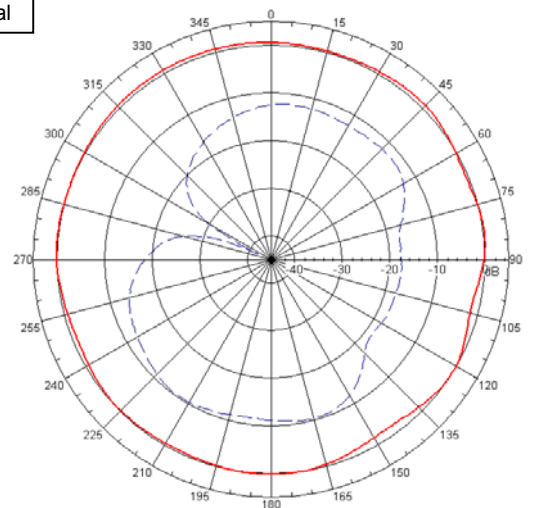
XY cut @2.45GHz  
 — Vertical  
 ..... Horizontal



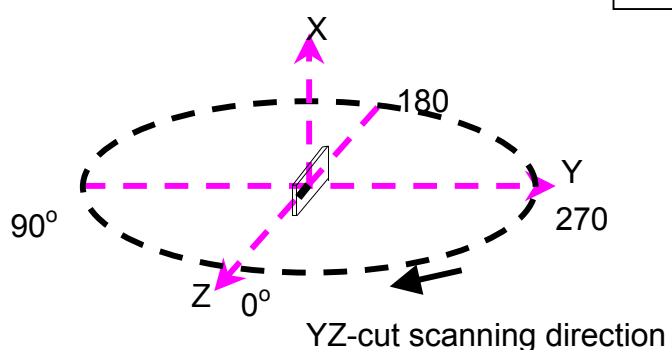
XZ-V/XZ-H



XZ cut @2.45GHz  
 — Vertical  
 ..... Horizontal



YZ-V/YZ-H



YZ cut @2.45GHz  
 — Vertical  
 ..... Horizontal

