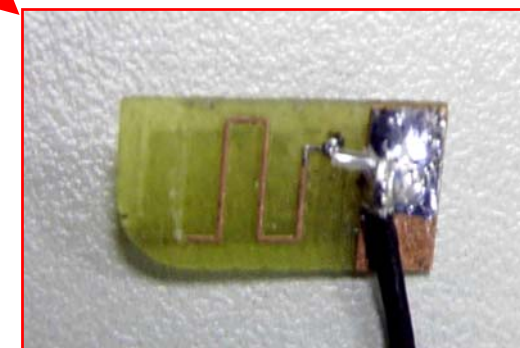


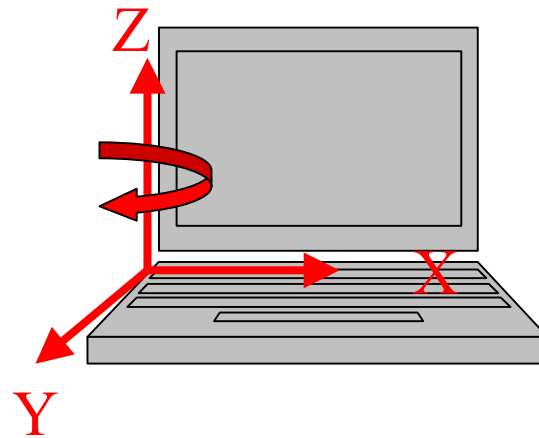
# FOXCONN NWInG

## Antenna Engineering Test Report

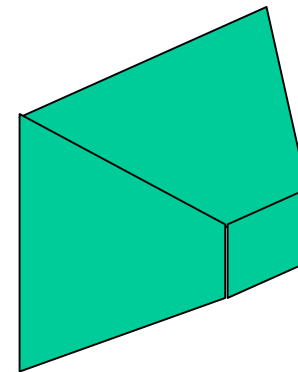
### Quanta ZG1S WLAN Antenna



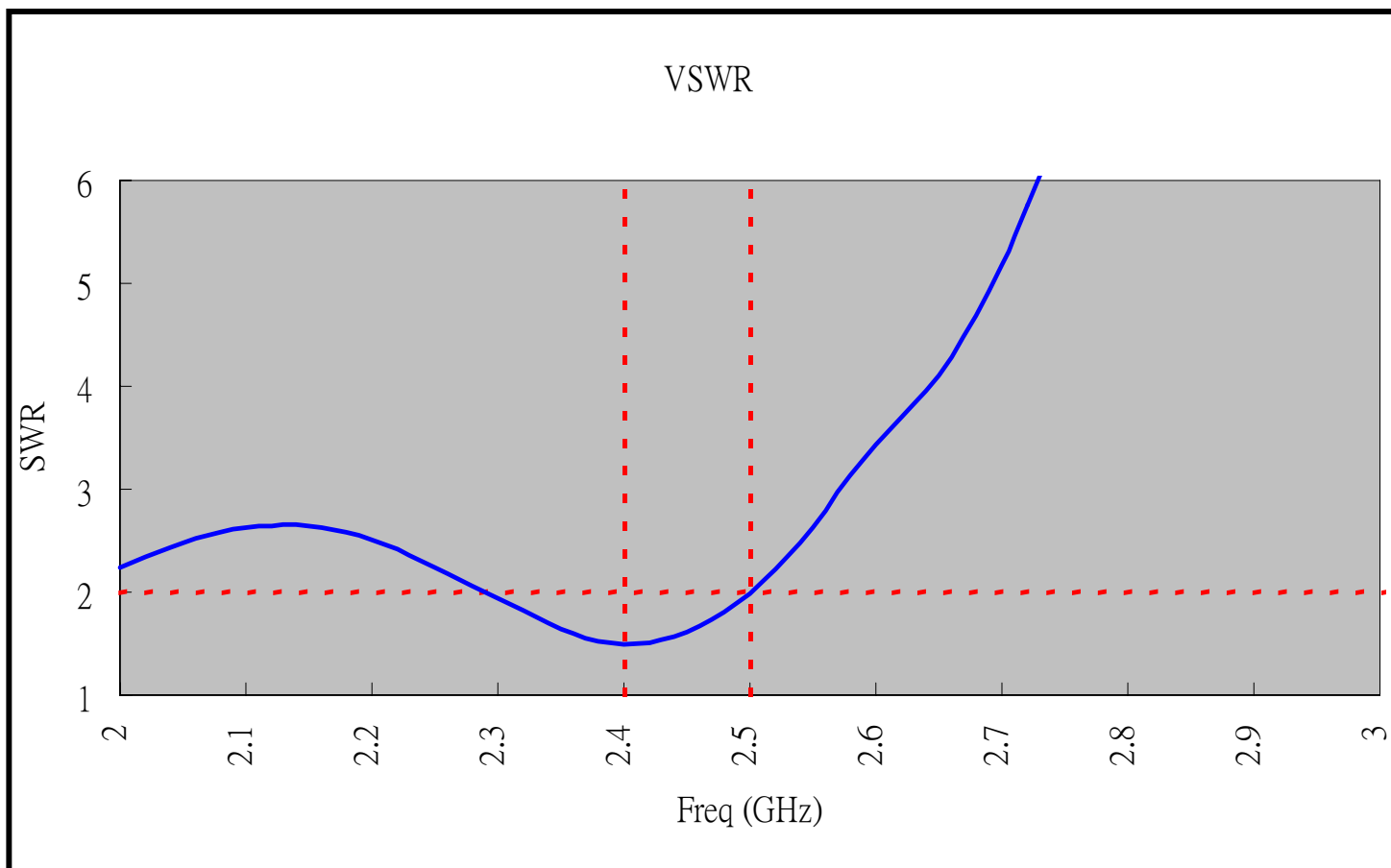
# 天線量測座標定義 plane



Horn Antenna



# VSWR of Blue-tooth Antenna



2.4 GHz = 1.486

2.45GHz = 1.618

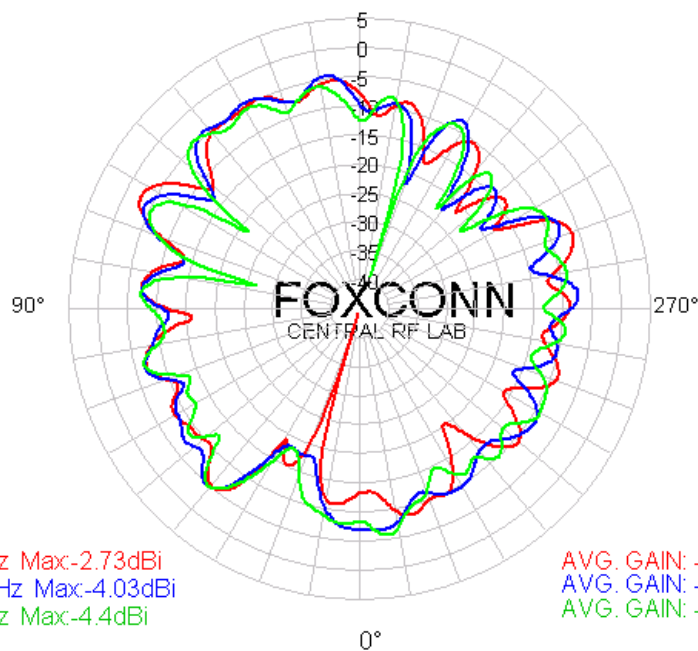
2.5 GHz = 1.986

Cable length = 79.3 mm

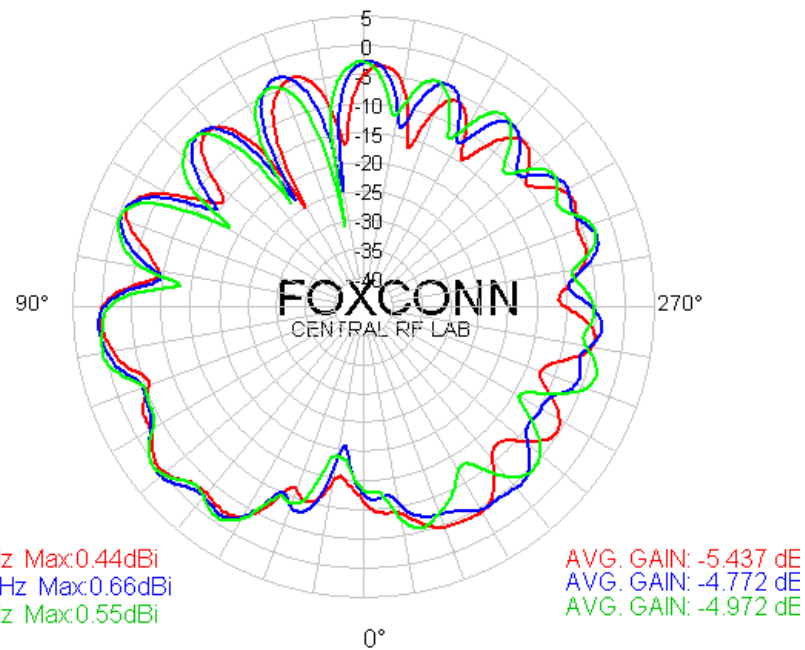
# X-Y Plane Radiation Pattern of WLAN BT Antenna

## 2.4GHz~2.5GHz

### HORIZONTAL POLARIZATION



### VERTICAL POLARIZATION



# X-Y Plane Gain of Blue-tooth Antenna

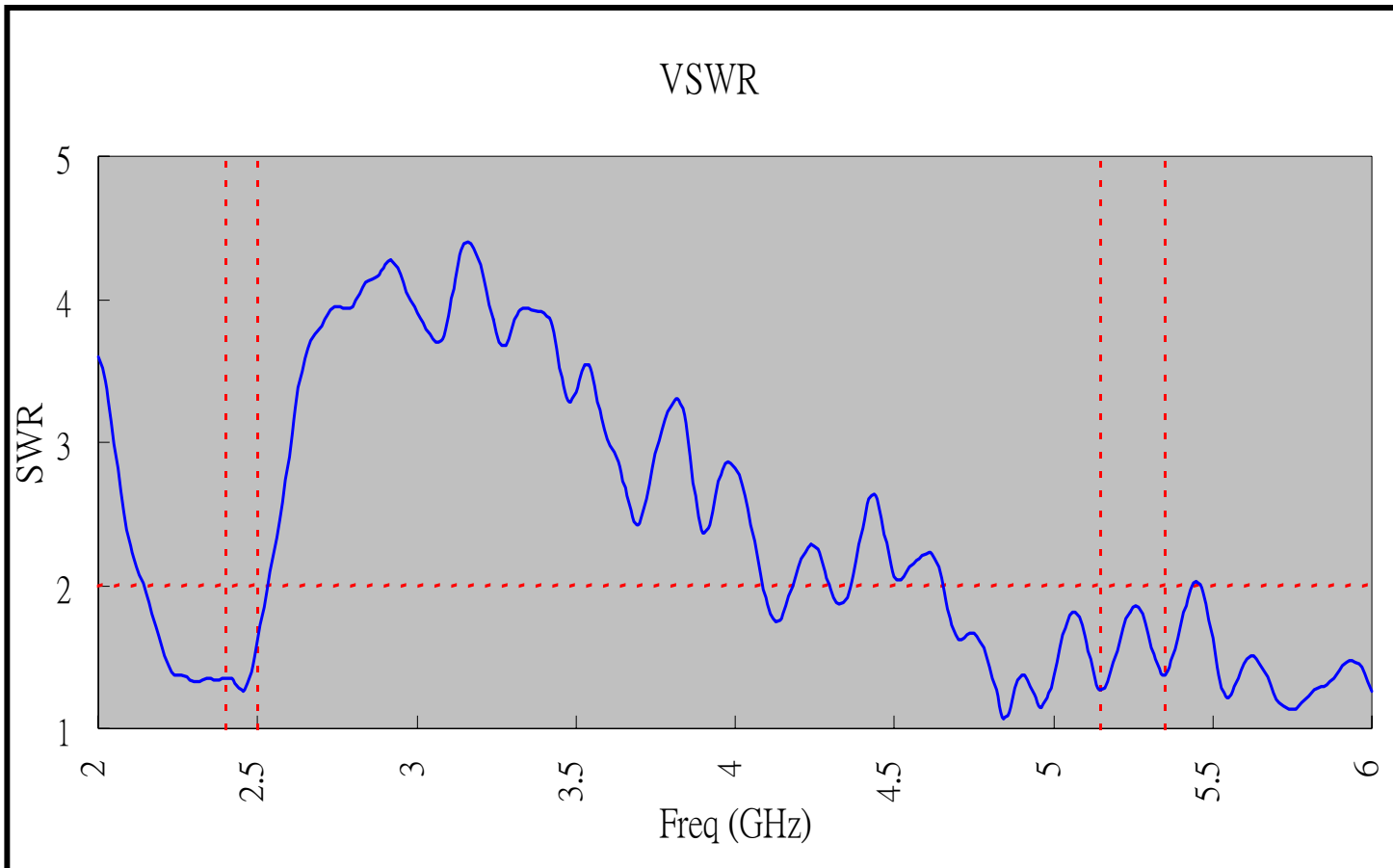
## Average Gain

(dBi)	2400MHz	2450 MHz	2500 MHz
<b>XY-H</b>	<b>-9.13</b>	<b>-8.85</b>	<b>-9.41</b>
<b>XY-V</b>	<b>-5.44</b>	<b>-4.77</b>	<b>-4.97</b>
<b>XY-AVG.</b>	<b>-3.89</b>	<b>-3.34</b>	<b>-3.64</b>

## Peak Gain

(dBi)	2400MHz	2450 MHz	2500 MHz
<b>XY-right-H</b>	<b>-2.73</b>	<b>-4.03</b>	<b>-4.40</b>
<b>XY-right-V</b>	<b>0.44</b>	<b>0.66</b>	<b>0.55</b>

# VSWR of WLAN Right Antenna



2.4 GHz = 1.352

2.45GHz = 1.282

2.5 GHz = 1.605

5.15 GHz = 1.285

5.25 GHz = 1.836

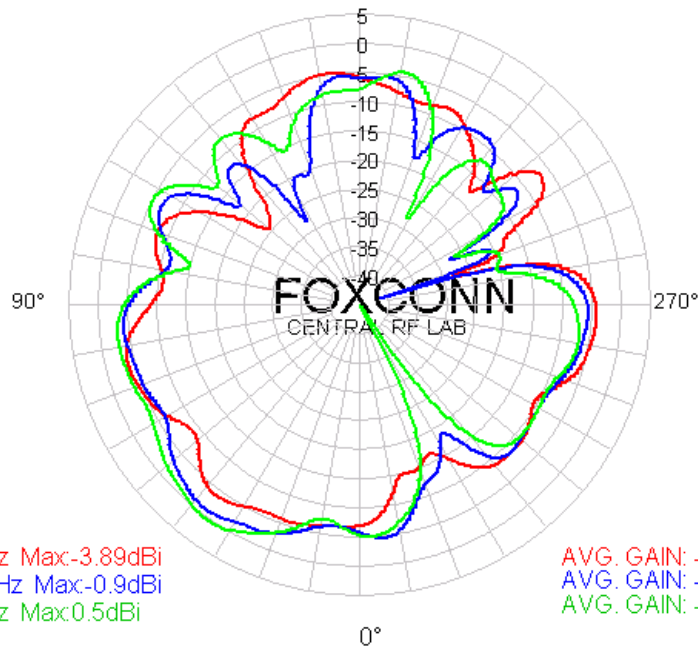
5.35 GHz = 1.394

Cable length = 512 mm

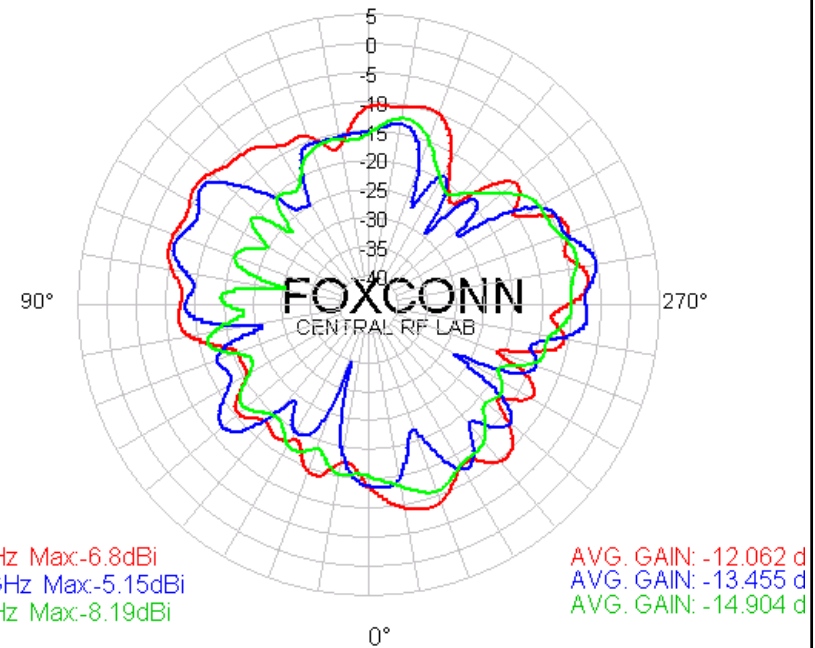
# X-Y Plane Radiation Pattern of WLAN Right Antenna

## 2.4GHz~2.5GHz

### HORIZONTAL POLARIZATION



### VERTICAL POLARIZATION

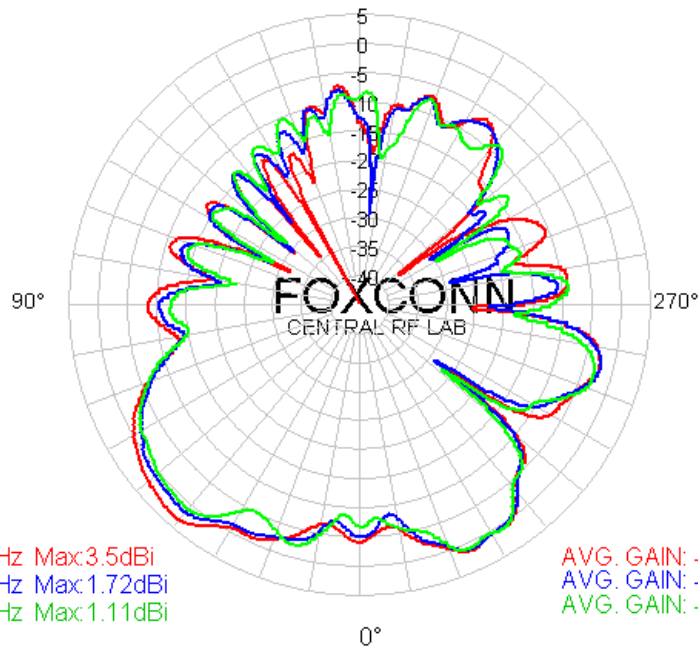




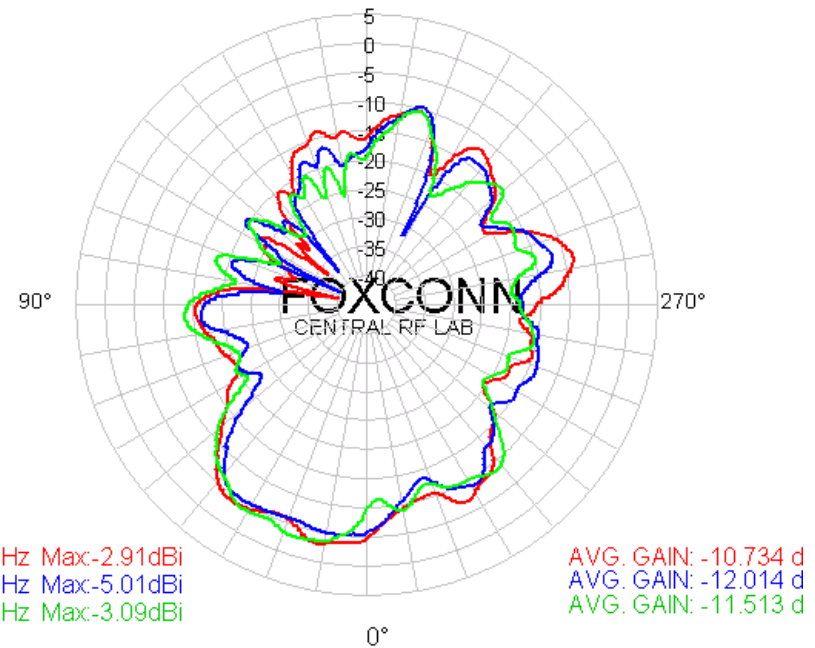
# X-Y Plane Radiation Pattern of WLAN Right Antenna

## 5.15GHz~5.35GHz

### HORIZONTAL POLARIZATION



### VERTICAL POLARIZATION



# X-Y Plane Gain of WLAN Right Antenna

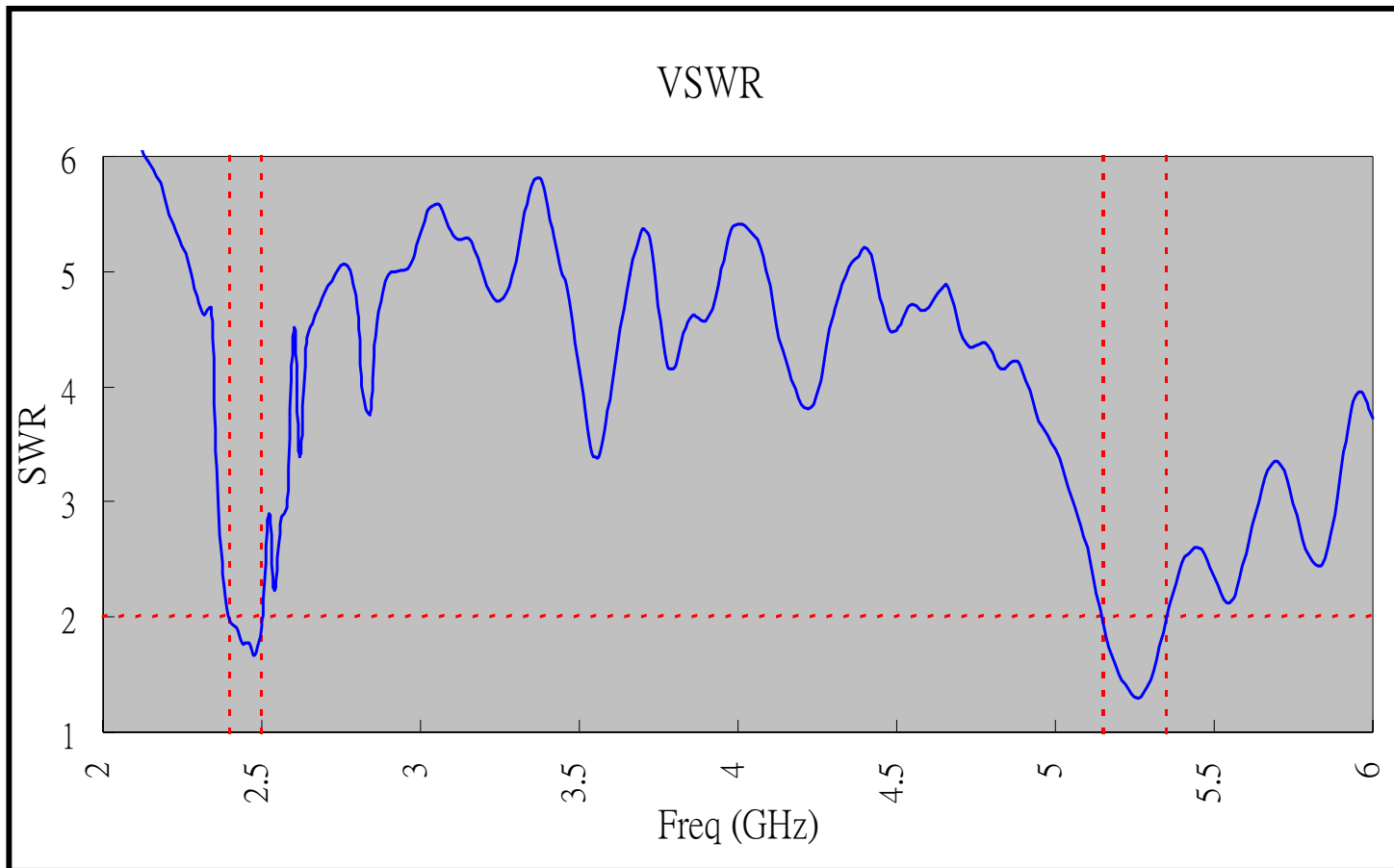
## Average Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-7.67	-7.09	-6.49	-4.52	-5.34	-5.88
XY-V(dBi)	-12.06	-13.46	-13.90	-10.73	-12.01	-11.51
<b>Average Gain</b>	<b>-6.32</b>	<b>-6.19</b>	<b>-5.77</b>	<b>-3.59</b>	<b>-4.49</b>	<b>-4.83</b>

## Peak Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-3.89	-0.90	0.50	3.50	1.72	1.11
XY-V(dBi)	-6.80	-5.15	-8.19	-2.91	-5.01	-3.09

# VSWR of WLAN Left Antenna



2.4 GHz = 1.971

2.45GHz = 1.783

2.5 GHz = 1.925

5.15 GHz = 1.948

5.25 GHz = 1.311

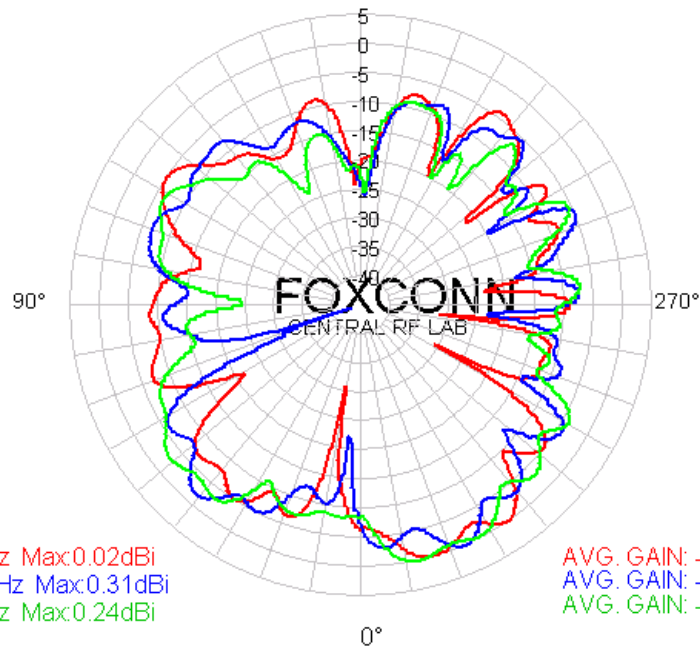
5.35 GHz = 1.978

Cable length = 360 mm

# X-Y Plane Radiation Pattern of WLAN Left Antenna

## 2.4GHz~2.5GHz

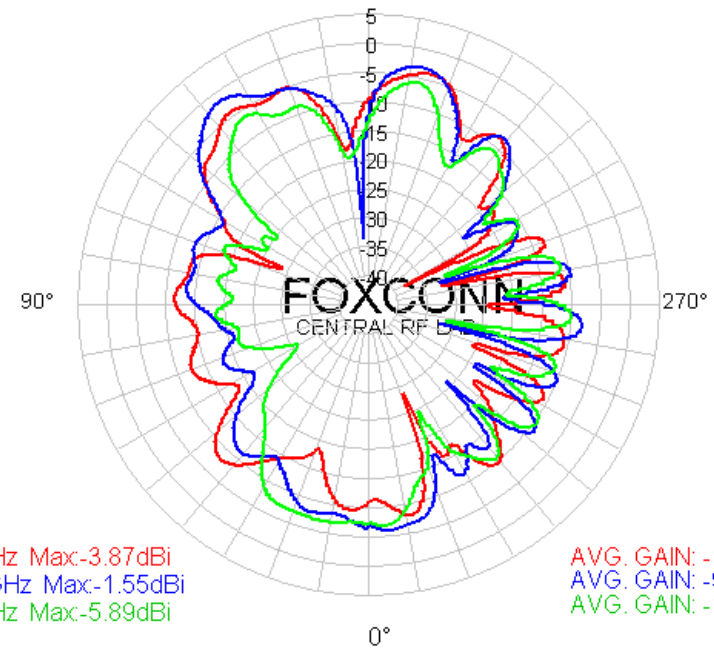
### HORIZONTAL POLARIZATION



2.4 GHz Max:0.02dBi  
 2.45 GHz Max:0.31dBi  
 2.5 GHz Max:0.24dBi

AVG. GAIN: -7.494 dE  
 AVG. GAIN: -7.5 dBi  
 AVG. GAIN: -6.964 dE

### VERTICAL POLARIZATION



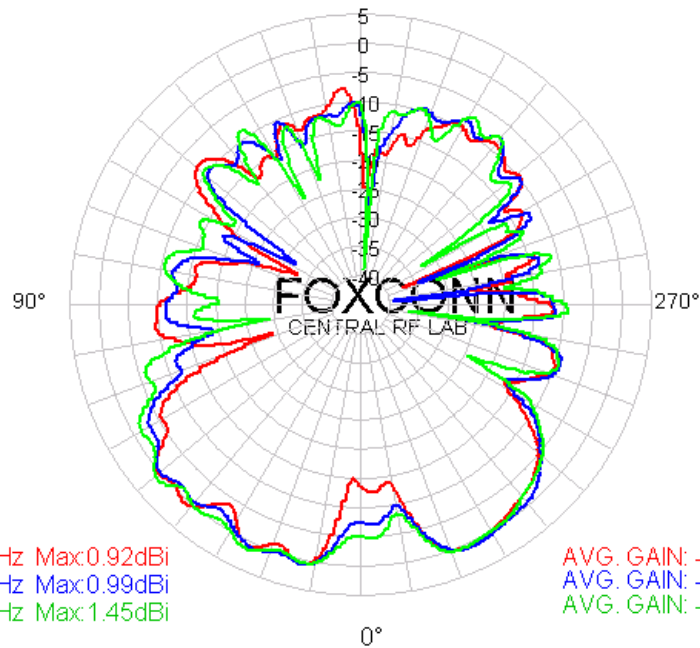
2.4 GHz Max:-3.87dBi  
 2.45 GHz Max:-1.55dBi  
 2.5 GHz Max:-5.89dBi

AVG. GAIN: -10.414 d  
 AVG. GAIN: -9.206 dE  
 AVG. GAIN: -11.725 d

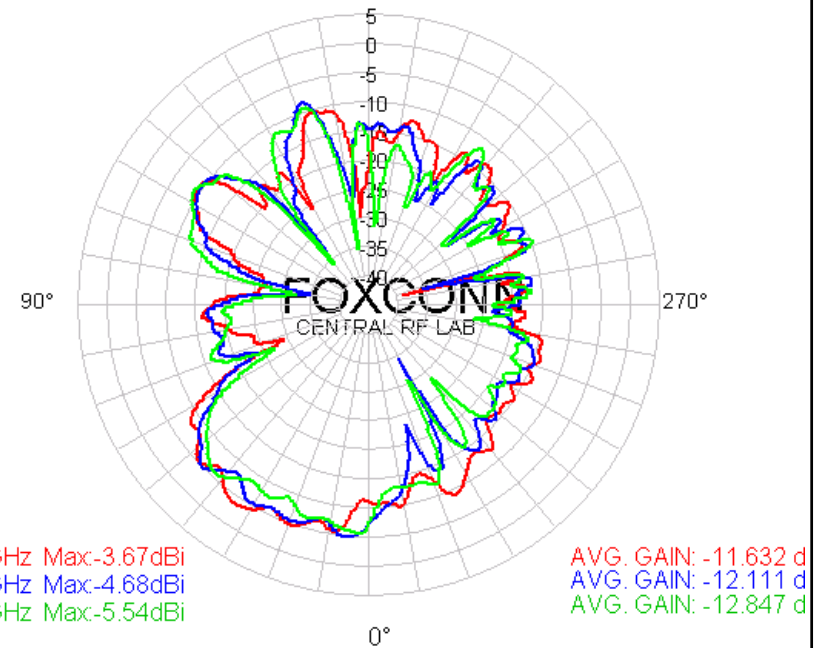
# X-Y Plane Radiation Pattern of WLAN Left Antenna

## 5.15GHz~5.35GHz

### HORIZONTAL POLARIZATION



### VERTICAL POLARIZATION



# X-Y Plane Gain of WLAN Left Antenna

## Average Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-7.49	-7.50	-6.96	-6.09	-5.53	-5.19
XY-V(dBi)	-10.41	-9.21	-11.73	-11.63	-12.11	-12.85
<b>Average Gain</b>	<b>-5.70</b>	<b>-5.26</b>	<b>-5.71</b>	<b>-5.02</b>	<b>-4.67</b>	<b>-4.50</b>

## Peak Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	0.02	0.31	0.24	0.92	0.99	1.45
XY-V(dBi)	-3.87	-1.55	-5.89	-3.67	-4.68	-5.54