

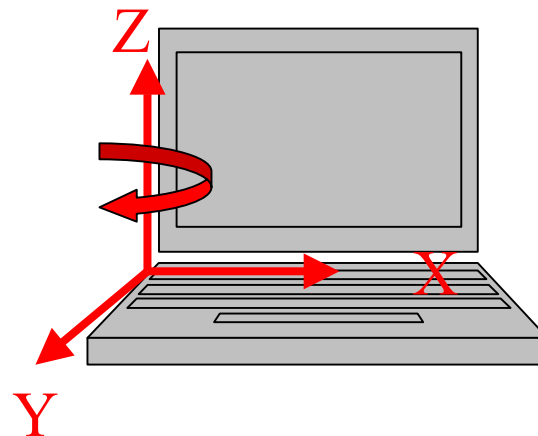
FOXCONN NWInG

Antenna Engineering Test Report

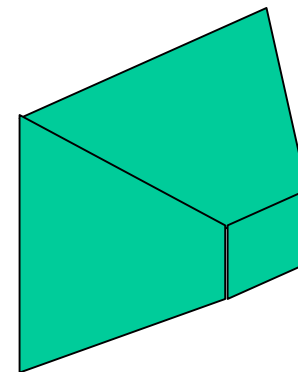
Quanta ZG1S WLAN Antenna



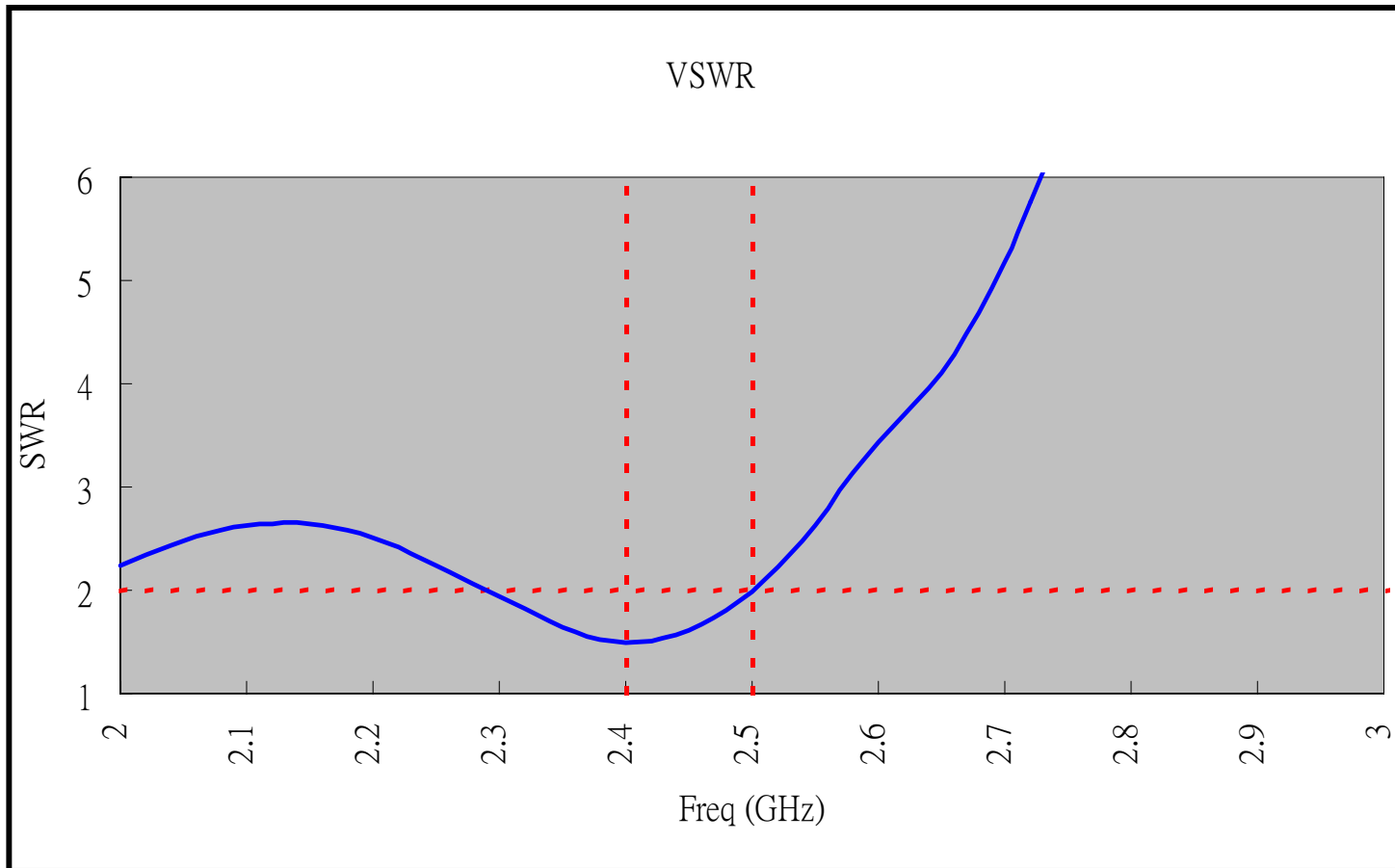
天線量測座標定義 plane



Horn Antenna



VSWR of Blue-tooth Antenna



2.4 GHz = 1.486

2.45GHz = 1.618

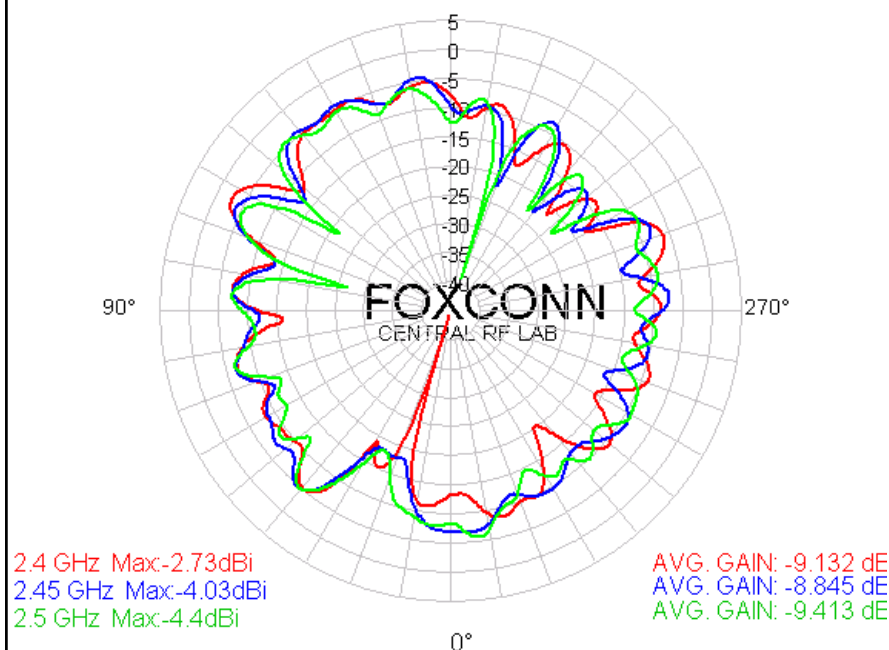
2.5 GHz = 1.986

Cable length = 79.3 mm

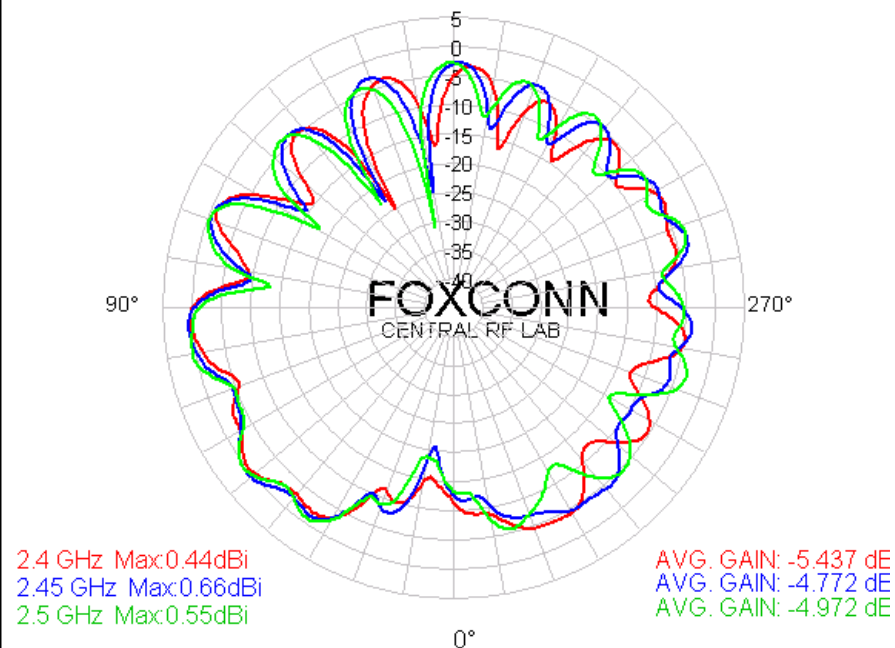
X-Y Plane Radiation Pattern of WLAN BT Antenna

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



X-Y Plane Gain of Blue-tooth Antenna

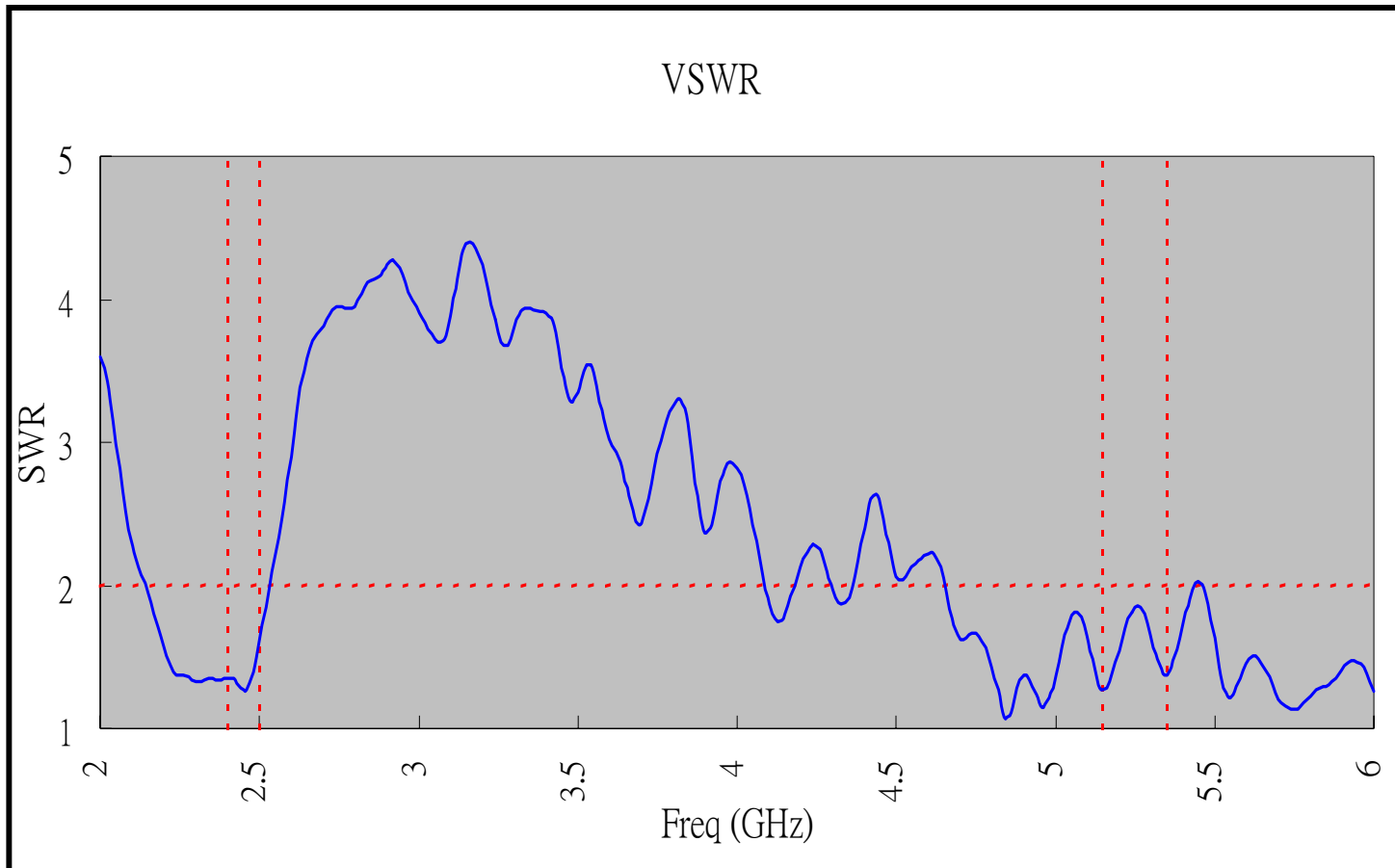
Average Gain

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

Peak Gain

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

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

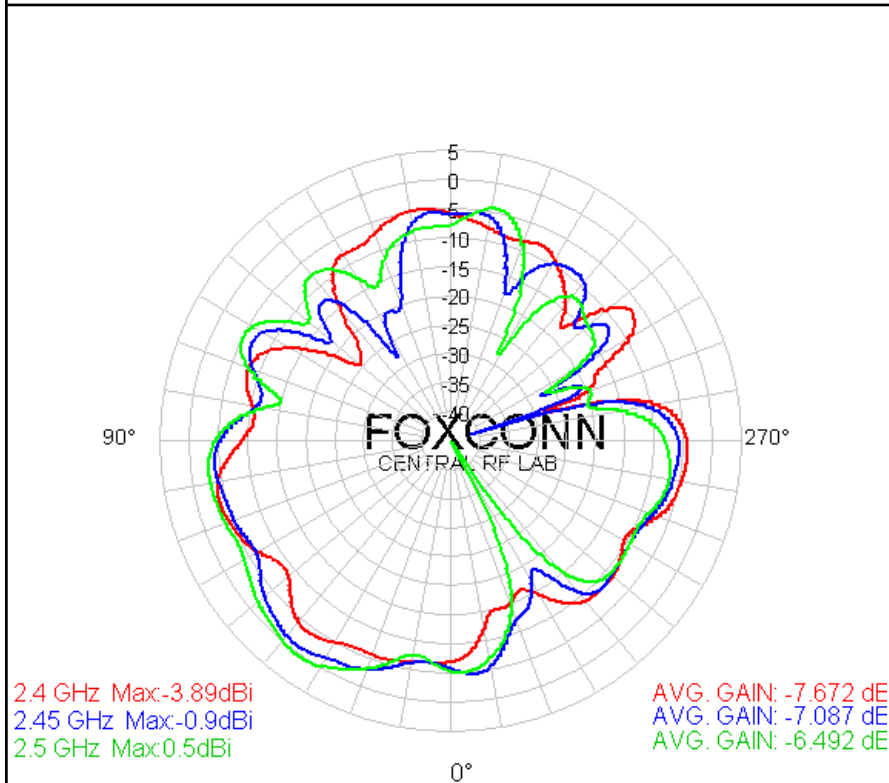
5.35 GHz = 1.394

Cable length = 512 mm

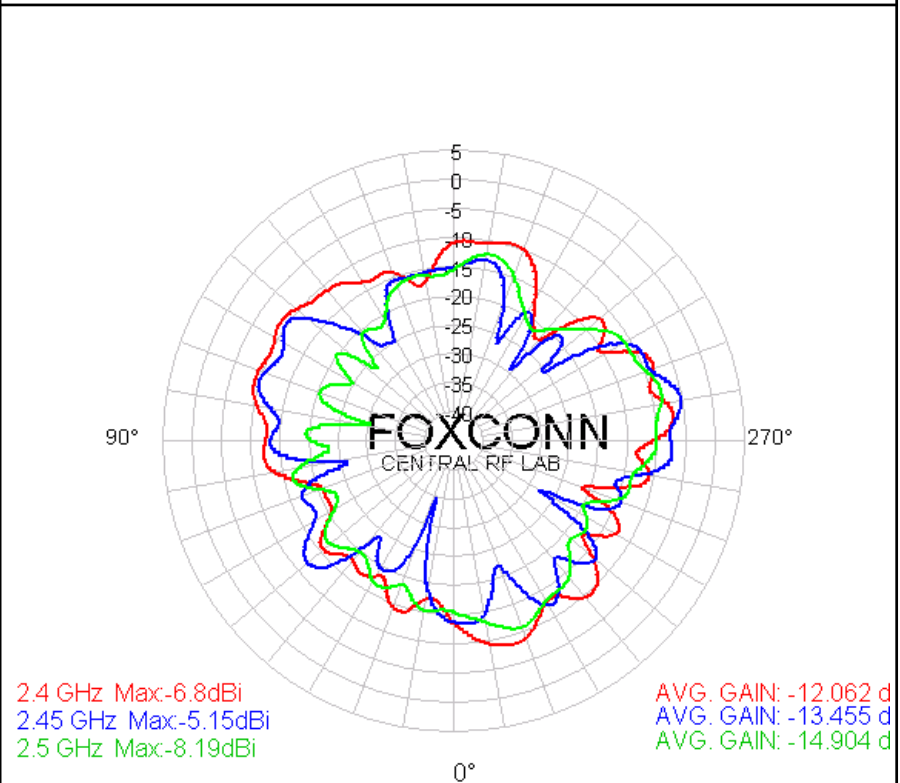
X-Y Plane Radiation Pattern of WLAN Right Antenna

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



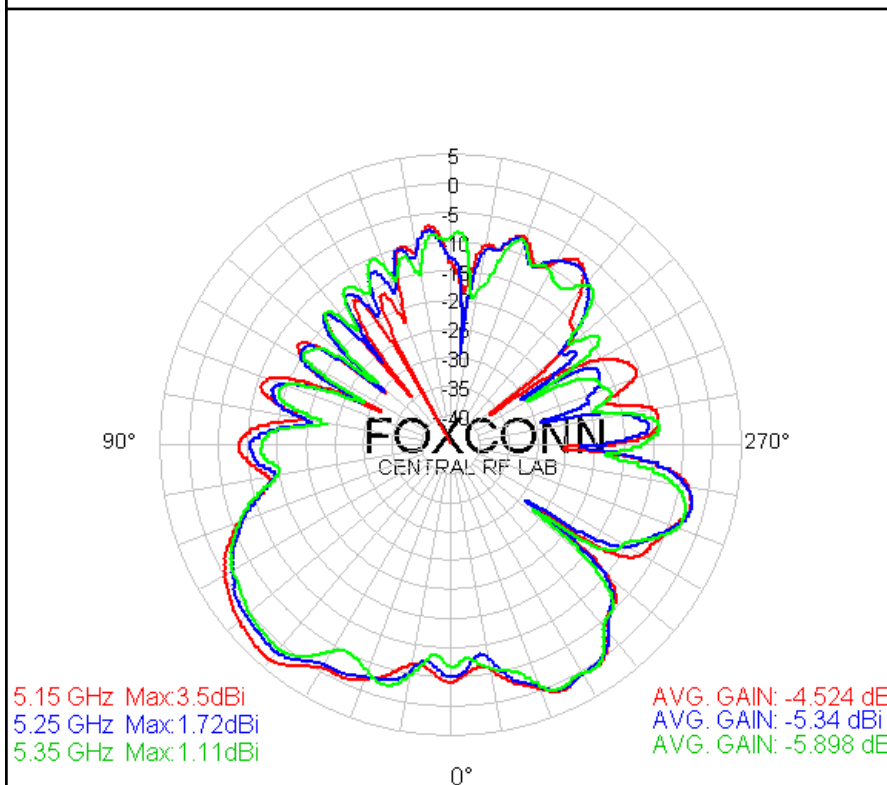
VERTICAL POLARIZATION



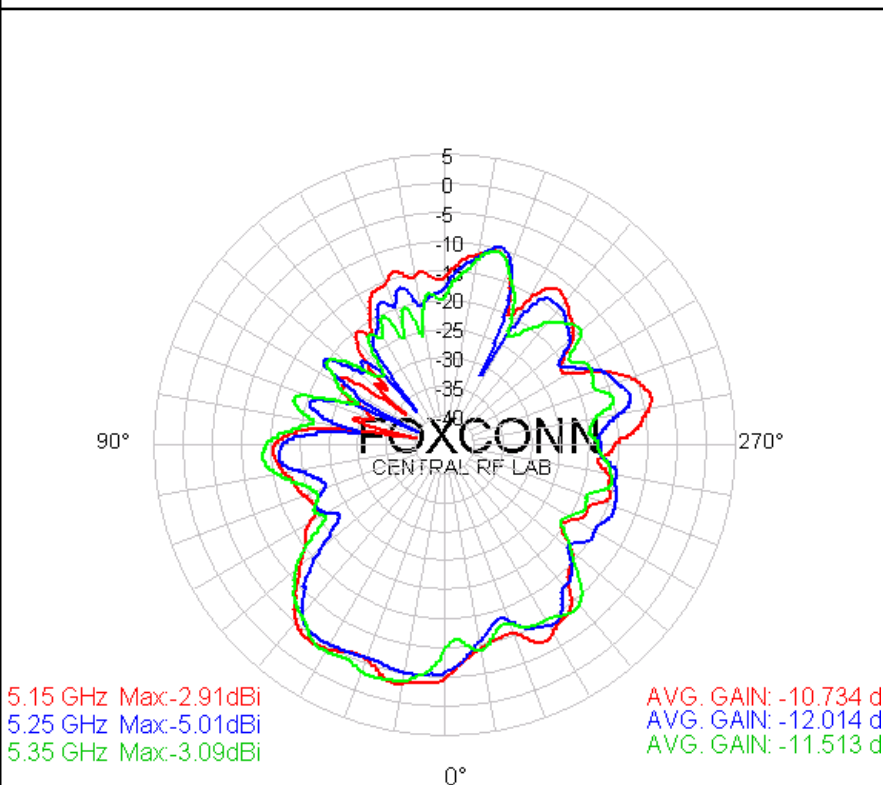
X-Y Plane Radiation Pattern of WLAN Right Antenna

5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



X-Y Plane Gain of WLAN Right Antenna

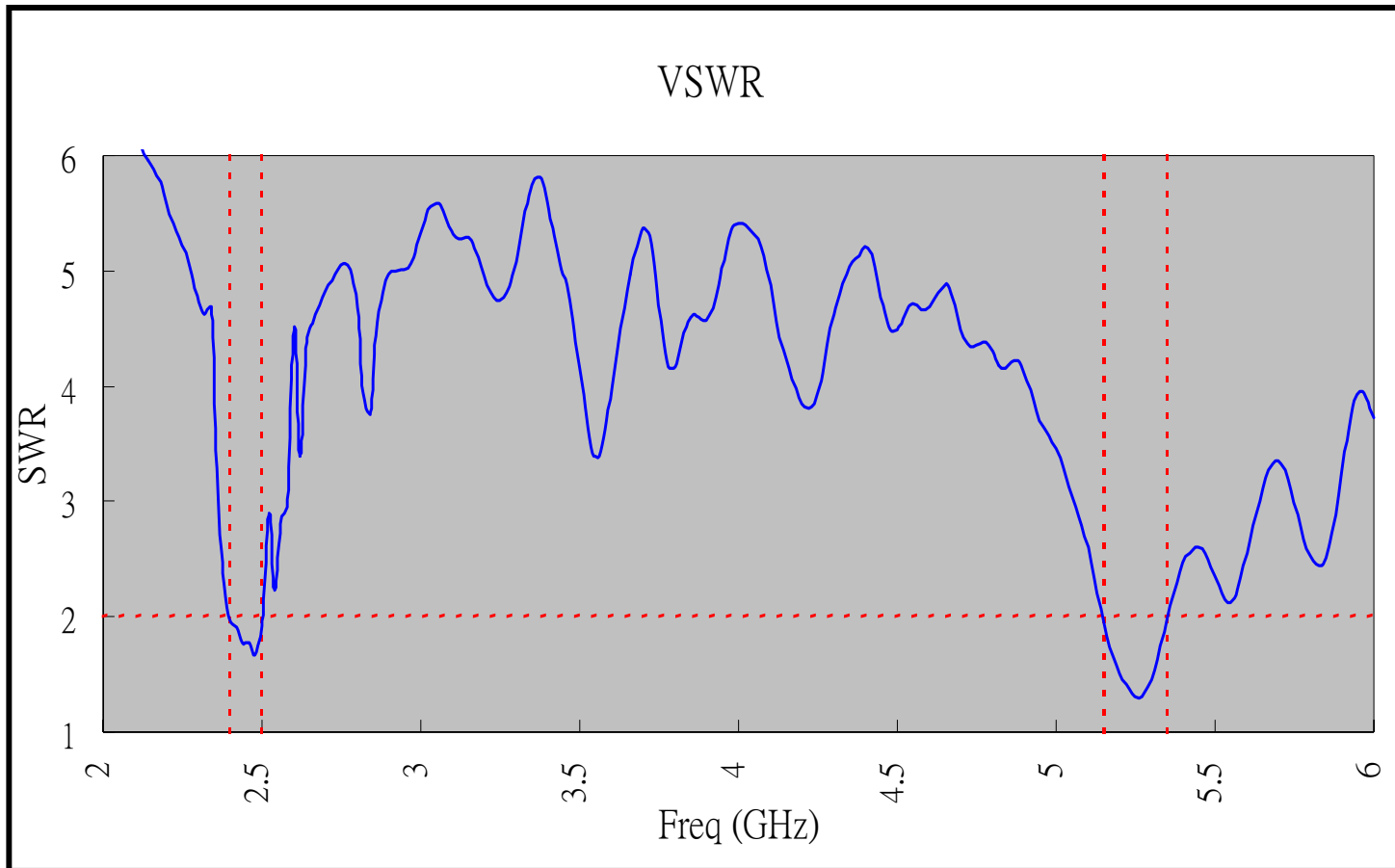
Average Gain

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
Average Gain	-6.32	-6.19	-5.77	-3.59	-4.49	-4.83

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



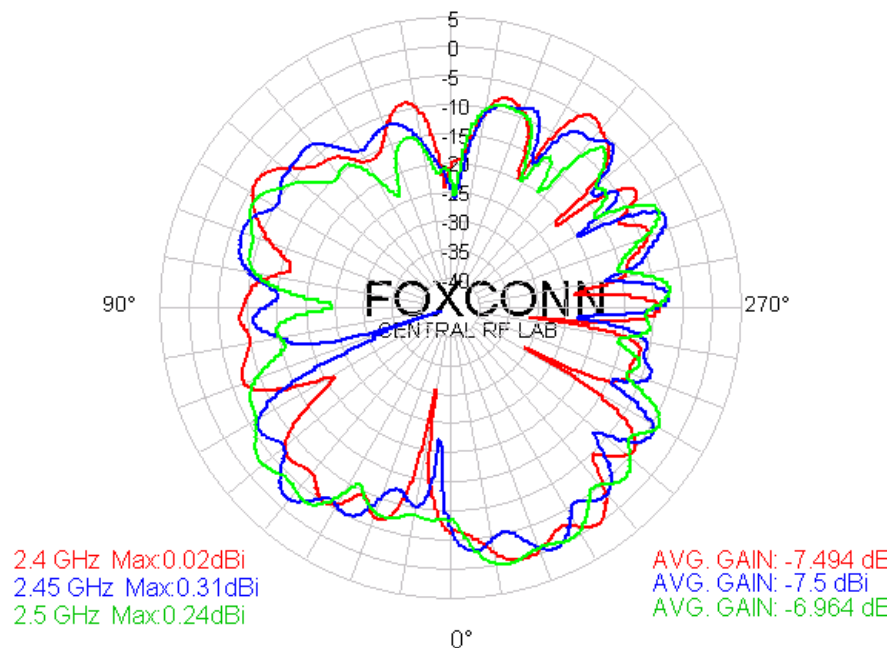
2.4 GHz = 1.971
2.45GHz = 1.783
2.5 GHz = 1.925
5.15 GHz = 1.948
5.25 GHz = 1.311
5.35 GHz = 1.978

Cable length = 360 mm

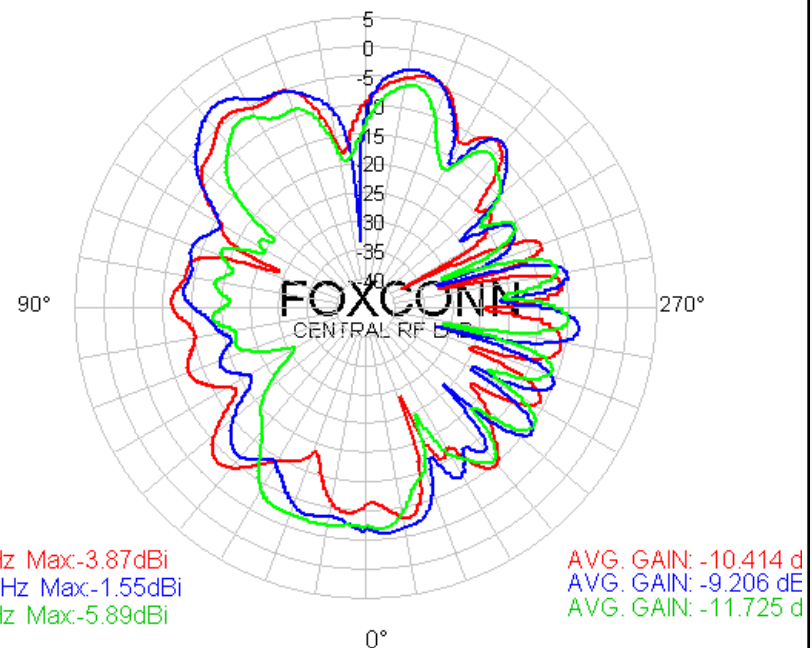
X-Y Plane Radiation Pattern of WLAN Left Antenna

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



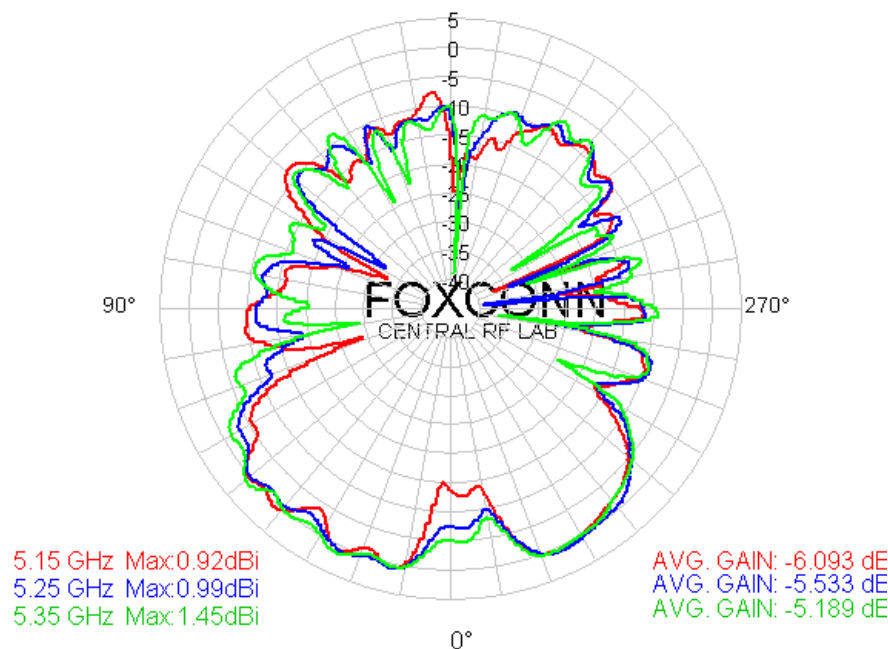
VERTICAL POLARIZATION



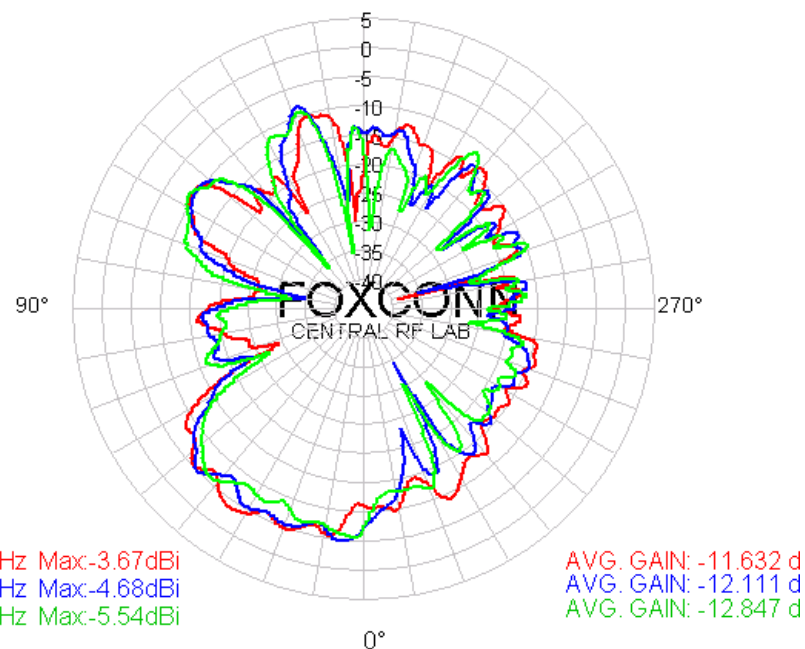
X-Y Plane Radiation Pattern of WLAN Left Antenna

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
Average Gain	-5.70	-5.26	-5.71	-5.02	-4.67	-4.50

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