
FOXCONN NWInG

Antenna Engineering Test Report

Quanta ZI3 WLAN Antenna

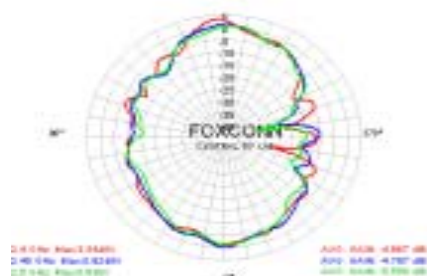
X-Y Plane Radiation Pattern of WLAN Left Antenna for 6/25'03 Report (for 14" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION

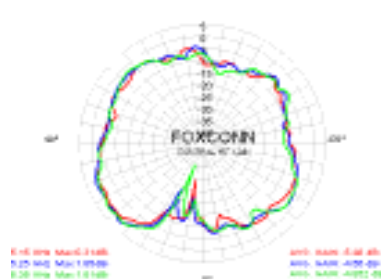


5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



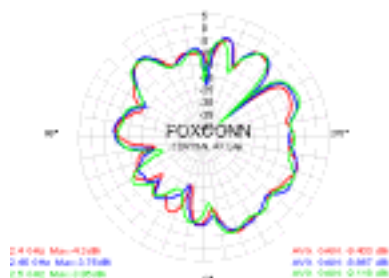
VERTICAL POLARIZATION



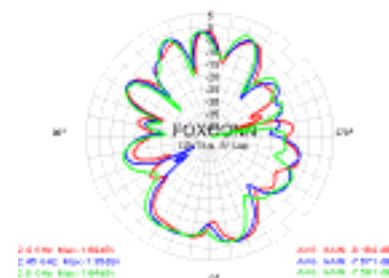
X-Y Plane Radiation Pattern of WLAN Right Antenna for 6/25'03 Report (for 14" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION

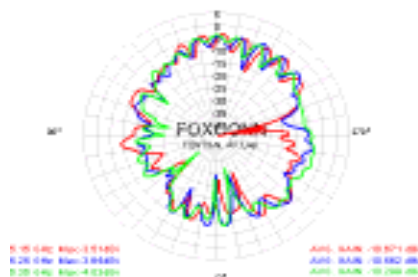


VERTICAL POLARIZATION

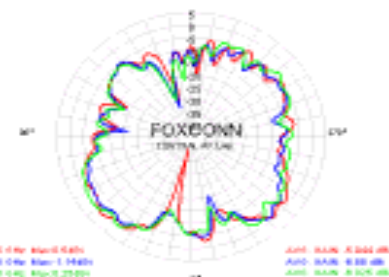


5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



X-Y Plane Gain of WLAN Left and Right Antenna for 6/25'03 Report (for 14" panel)

Average Gain (Left)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-8.35	-8.18	-8.71	-10.10	-9.02	-7.66
XY-V(dBi)	-4.67	-4.80	-5.59	-5.48	-4.56	-4.85
Average Gain	-3.12	-3.16	-3.86	-4.19	-3.23	-3.02

Peak Gain (Left)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-3.65	-3.66	-3.58	-3.22	-2.36	-2.46
XY-V(dBi)	3.34	0.92	0.60	0.31	1.85	1.51

Average Gain (Right)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-9.40	-8.86	-9.11	-10.67	-10.56	-10.29
XY-V(dBi)	-8.16	-7.67	-7.59	-5.94	-6.88	-6.02
Average Gain	-5.73	-5.21	-5.27	-4.68	-5.33	-4.64

Peak Gain (Right)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-4.30	-3.75	-3.86	-3.51	-3.64	-4.03
XY-V(dBi)	-1.69	-1.35	-1.64	0.50	-1.14	0.25

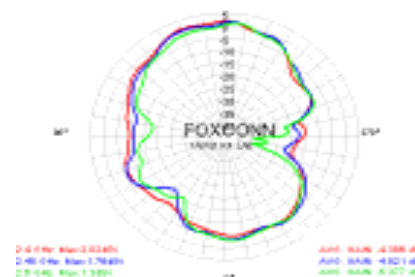
X-Y Plane Radiation Pattern of WLAN Left Antenna for 9/2'03 Report (for 15" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION

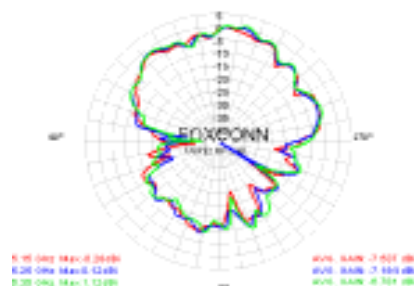


VERTICAL POLARIZATION

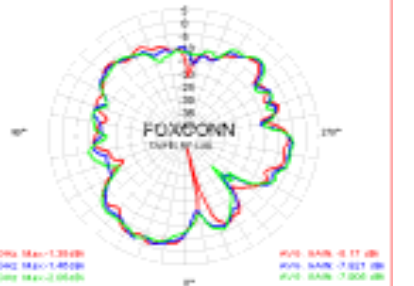


5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



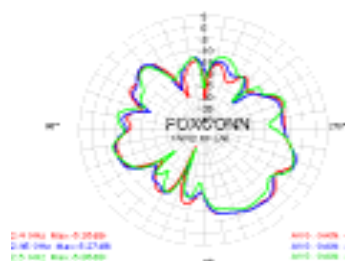
VERTICAL POLARIZATION



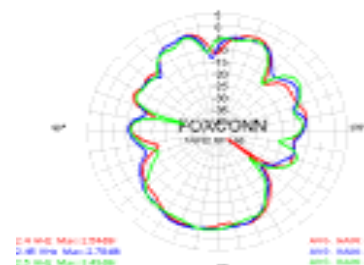
X-Y Plane Radiation Pattern of WLAN Right Antenna for 9/2'03 Report (for 15" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION

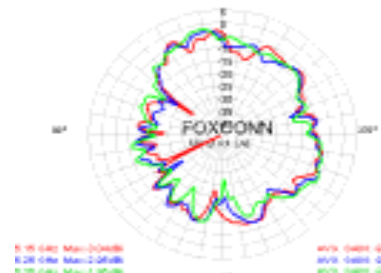


VERTICAL POLARIZATION

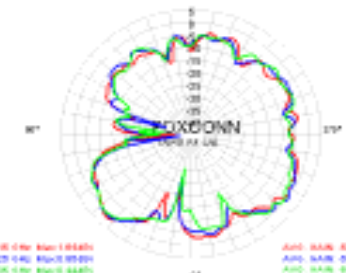


5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



X-Y Plane Gain of WLAN Left and Right Antenna for 9/2'03 Report (for 15" panel)

Average Gain (Left)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.84	-12.68	-12.71	-7.54	-7.18	-6.78
XY-V(dBi)	-4.39	-4.52	-5.38	-8.17	-7.92	-7.91
Average Gain	-3.81	-3.90	-4.64	-4.83	-4.53	-4.30

Peak Gain (Left)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-7.88	-6.73	-6.97	-0.28	0.12	1.12
XY-V(dBi)	2.02	1.76	1.30	-1.38	-1.45	-2.06

Average Gain (Right)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-11.17	-11.03	-11.83	-9.79	-9.83	-9.53
XY-V(dBi)	-7.77	-7.55	-8.11	-5.19	-5.10	-5.63
Average Gain	-6.13	-5.94	-6.57	-3.89	-3.84	-4.14

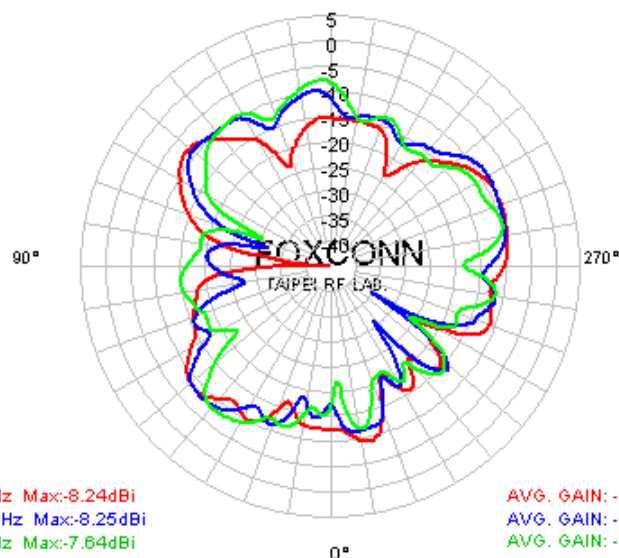
Peak Gain (Right)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-5.35	-5.27	-5.86	-3.04	-2.95	-1.95
XY-V(dBi)	-2.54	-2.78	-3.43	1.64	0.85	0.44

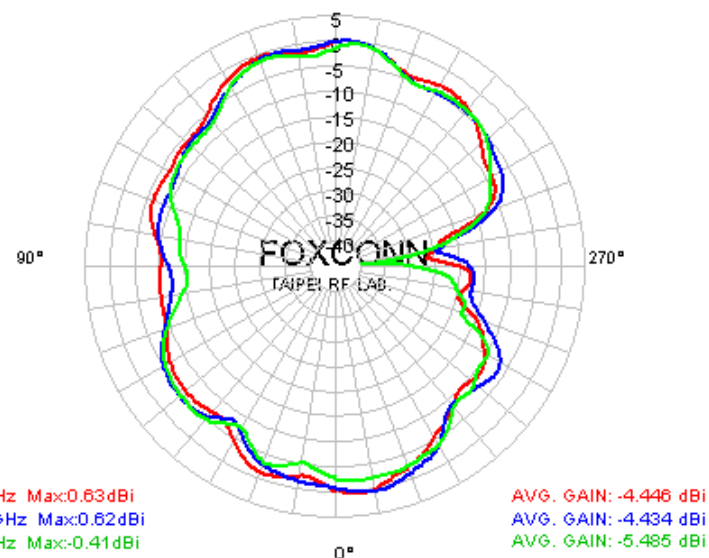
X-Y Plane Radiation Pattern of WLAN Left Antenna (9/3'03 , 15" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION

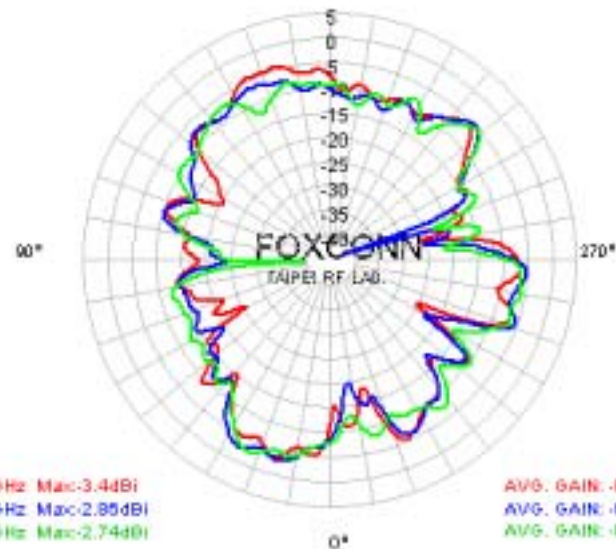
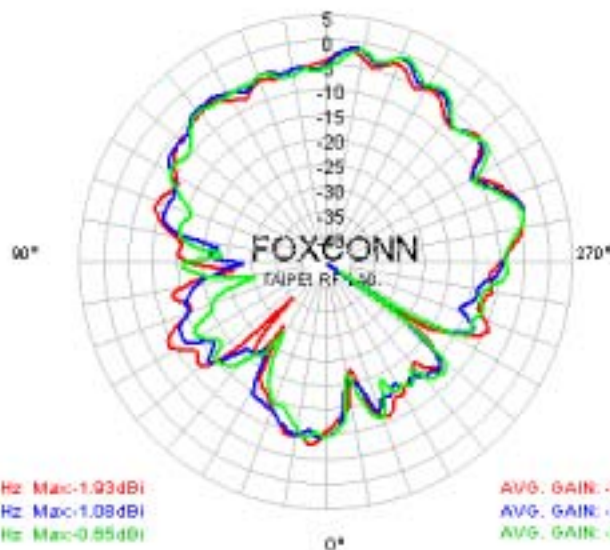


X-Y Plane Radiation Pattern of WLAN Left Antenna(9/3'03 , 15" panel)

5.15GHz~5.35GHz

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



X-Y Plane Gain of WLAN Left Antenna (9/3'03 , 15" panel)

Average Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.74	-12.67	-13.12	-8.26	-8.02	-8.13
XY-V(dBi)	-4.45	-4.43	-5.49	-9.30	-9.23	-9.40
Average Gain	-3.85	-3.83	-4.79	-5.74	-5.57	-5.71

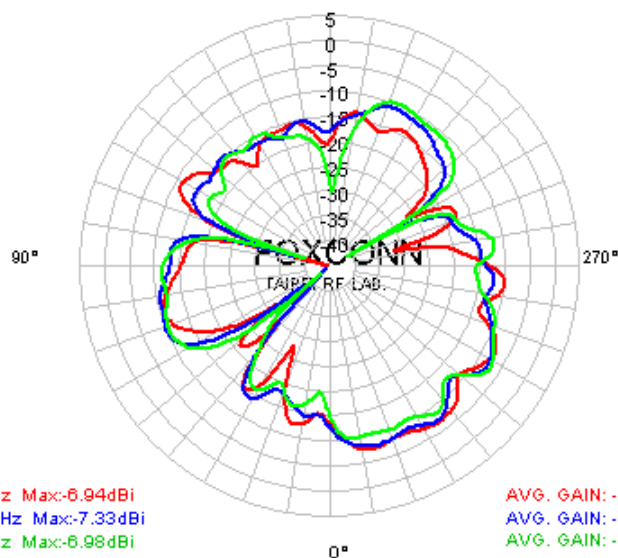
Peak Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-8.24	-8.25	-7.64	-1.93	-1.08	-0.65
XY-V(dBi)	0.63	0.62	0.41	-3.40	-2.86	-2.74

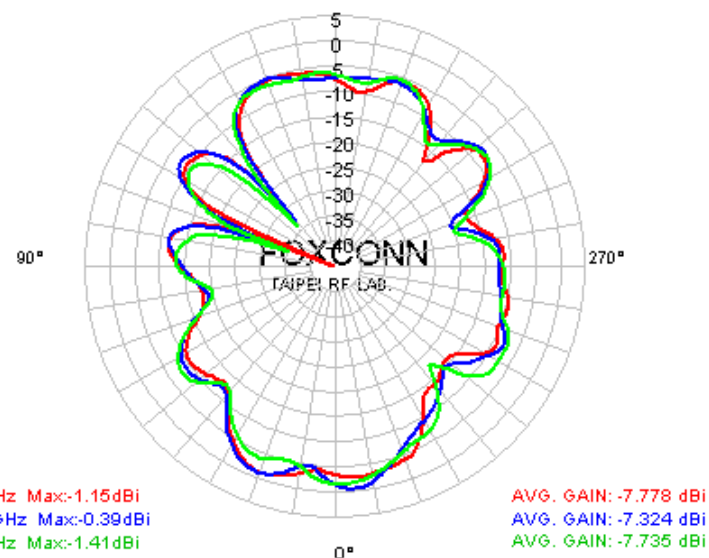
X-Y Plane Radiation Pattern of WLAN Right Antenna(9/3'03 , 15" panel)

2.4GHz~2.5GHz

HORIZONTAL POLARIZATION



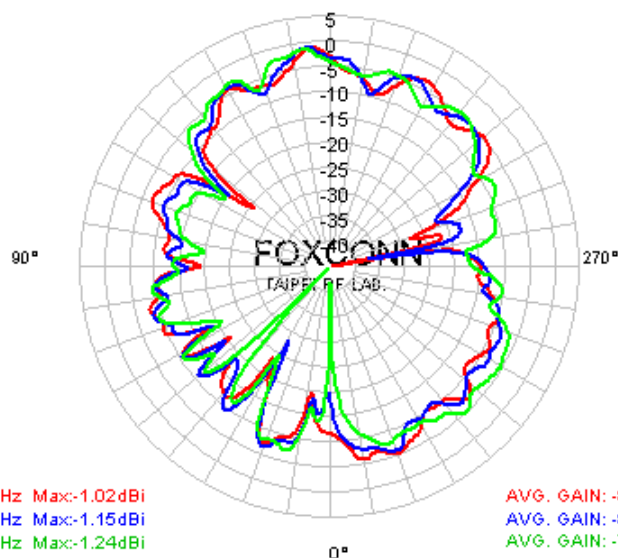
VERTICAL POLARIZATION



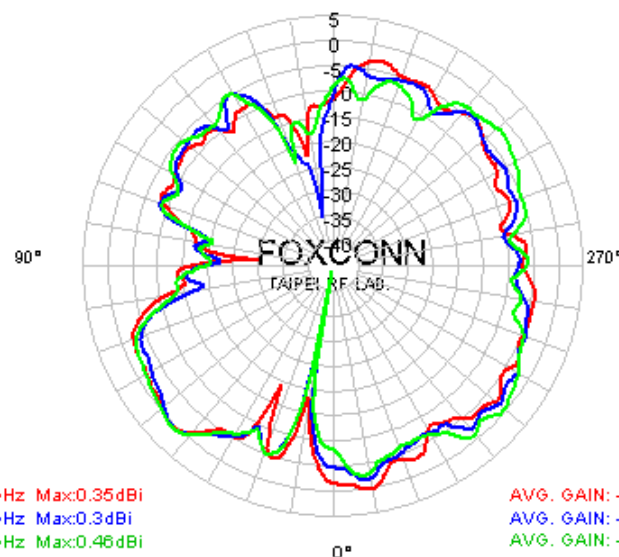
X-Y Plane Radiation Pattern of WLAN Right Antenna(9/3'03 , 15" panel)

5.15GHz~5.35GHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



X-Y Plane Gain of WLAN Right Antenna (9/3'03 , 15" panel)

Average Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.92	-12.61	-13.05	-8.32	-8.34	-7.91
XY-V(dBi)	-7.78	-7.32	-7.74	-5.15	-5.68	-5.23
Average Gain	-6.62	-6.20	-6.61	-3.44	-3.80	-3.35

Peak Gain

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-6.94	-7.33	-6.98	-1.02	-1.15	-1.24
XY-V(dBi)	-1.15	-0.39	-1.41	0.35	0.30	0.46

Comparision with Average DATA (Left)

6/25 DATA (for 14" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-8.35	-8.18	-8.71	-10.10	-9.02	-7.66
XY-V(dBi)	-4.67	-4.80	-5.59	-5.48	-4.56	-4.85
Average Gain	-3.12	-3.16	-3.86	-4.19	-3.23	-3.02

9/2 DATA (for 15" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.84	-12.68	-12.71	-7.54	-7.18	-6.78
XY-V(dBi)	-4.39	-4.52	-5.38	-8.17	-7.92	-7.91
Average Gain	-3.81	-3.90	-4.64	-4.83	-4.53	-4.30

9/3 DATA (for 15" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.74	-12.67	-13.12	-8.26	-8.02	-8.13
XY-V(dBi)	-4.45	-4.43	-5.49	-9.30	-9.23	-9.40
Average Gain	-3.85	-3.83	-4.79	-5.74	-5.57	-5.71

Comparision with Average DATA (Right)

6/25 DATA (for 14" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-9.40	-8.86	-9.11	-10.67	-10.56	-10.29
XY-V(dBi)	-8.16	-7.67	-7.59	-5.94	-6.88	-6.02
Average Gain	-5.73	-5.21	-5.27	-4.68	-5.33	-4.64

9/2 DATA (for 15" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-11.17	-11.03	-11.83	-9.79	-9.83	-9.53
XY-V(dBi)	-7.77	-7.55	-8.11	-5.19	-5.10	-5.63
Average Gain	-6.13	-5.94	-6.57	-3.89	-3.84	-4.14

9/3 DATA (for 15" panel)

Freq(GHz)	2.4	2.45	2.5	5.15	5.25	5.35
XY-H(dBi)	-12.92	-12.61	-13.05	-8.32	-8.34	-7.91
XY-V(dBi)	-7.78	-7.32	-7.74	-5.15	-5.68	-5.23
Average Gain	-6.62	-6.20	-6.61	-3.44	-3.80	-3.35