

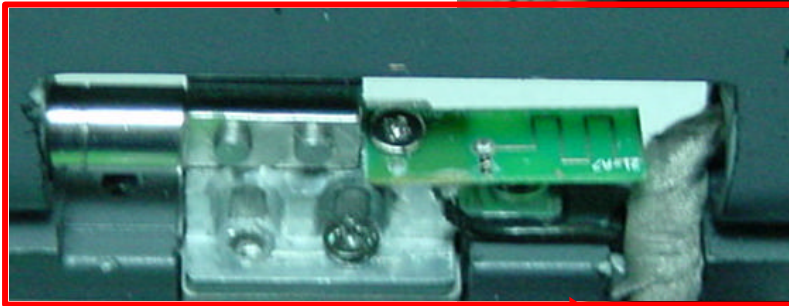
Quanta KT1,5 Antenna

Test Report

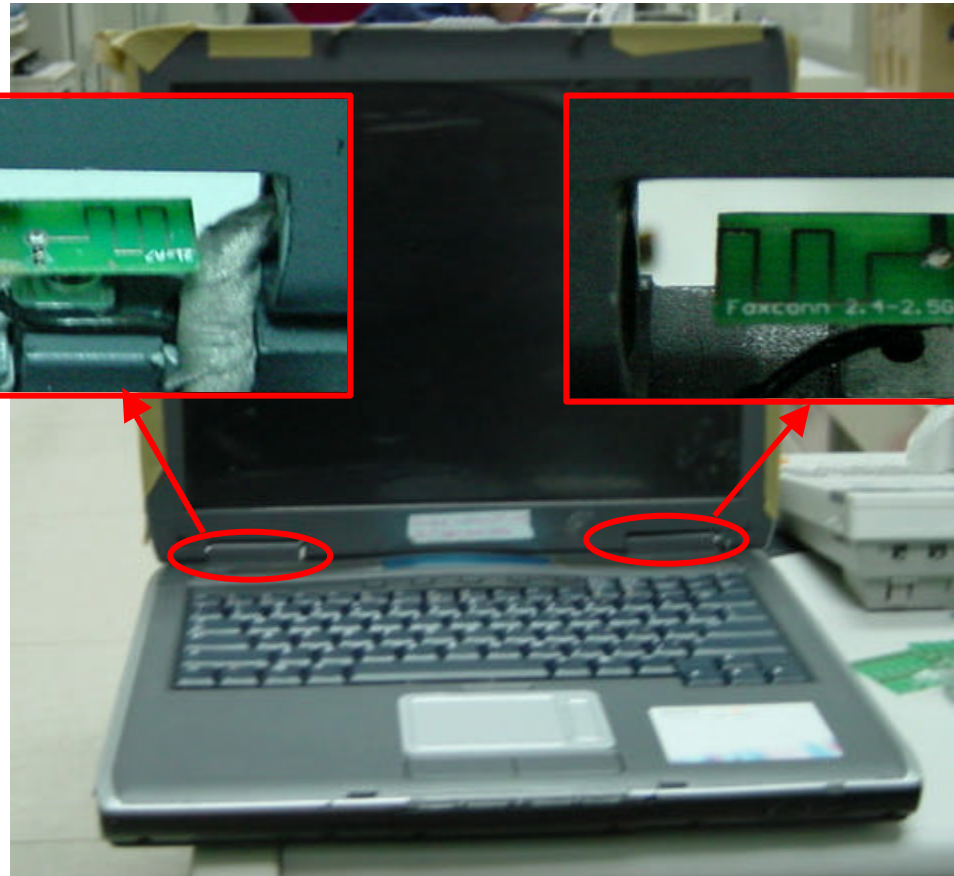
Sheng Tai

Antenna Location

Left Antenna

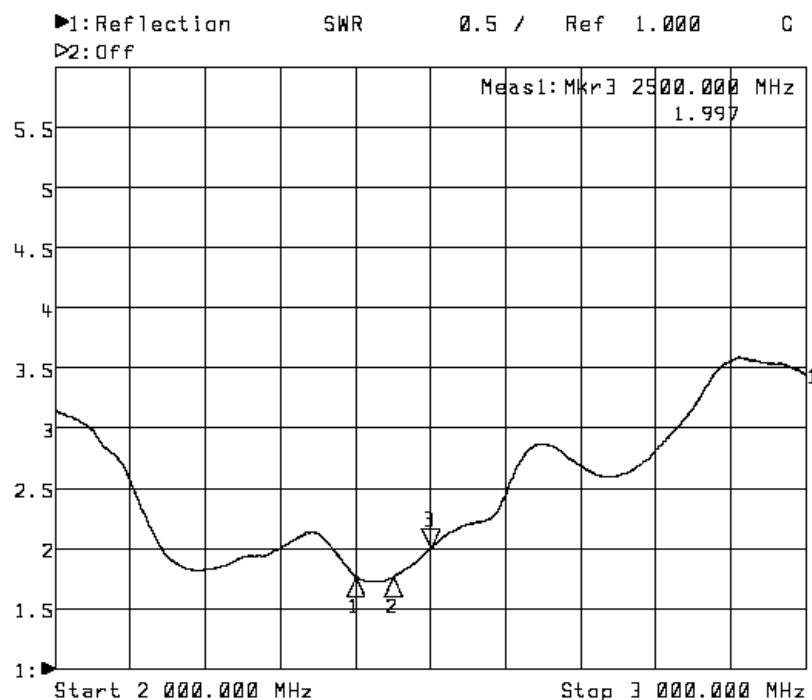


Right Antenna

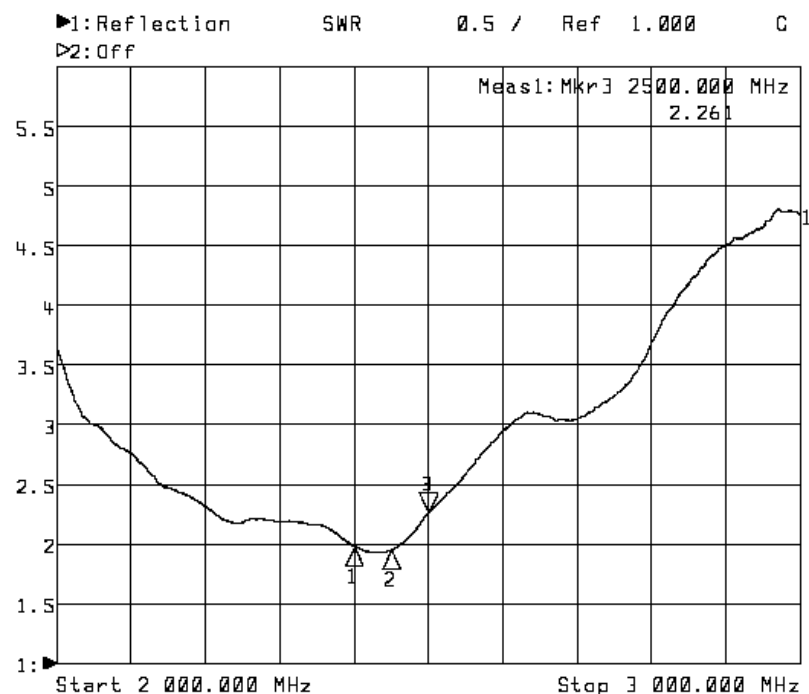


VSWR For Left 14" LCD

1. LCD Open

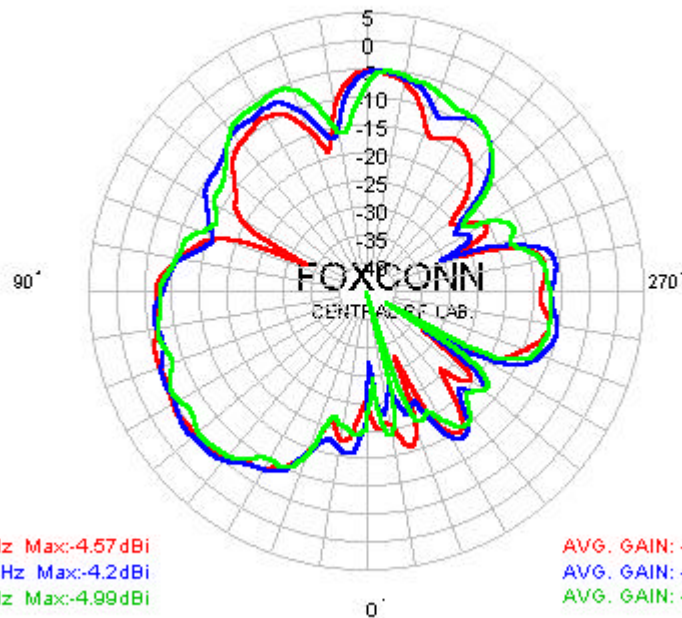


2. LCD Close

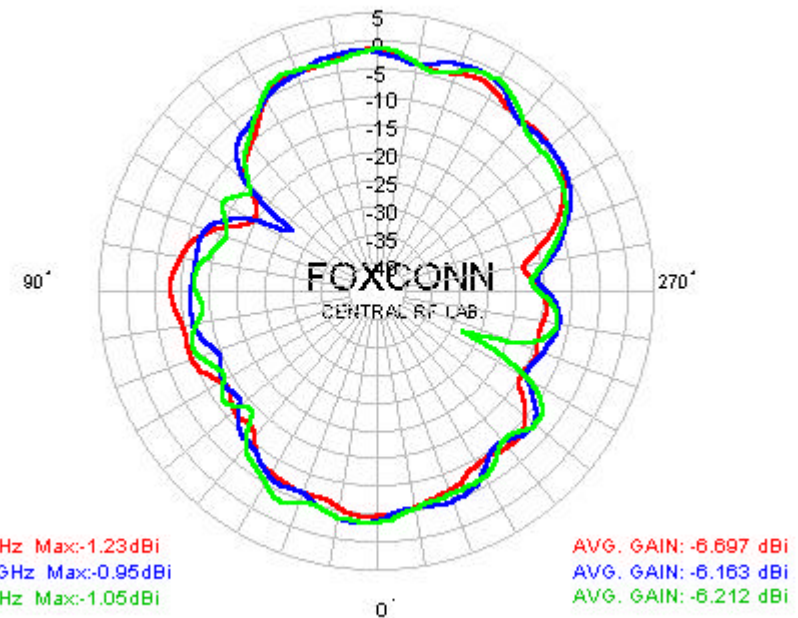


XY Plane Radiation Pattern For Left 14" LCD (Open)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Left 14" LCD Antenna (Open)

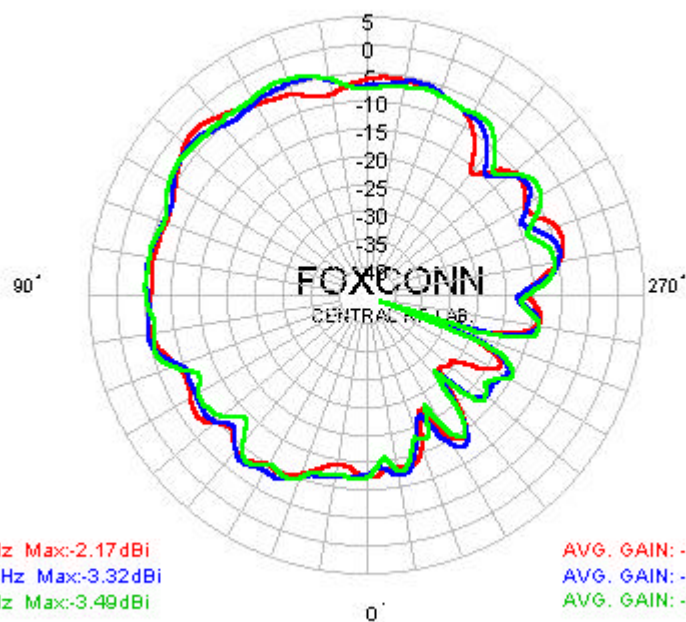
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.51	-9.77	-9.98
XY--V	-6.70	-6.16	-6.21
Total Average Gain	-5.19	-4.59	-4.69

PEAK GAIN

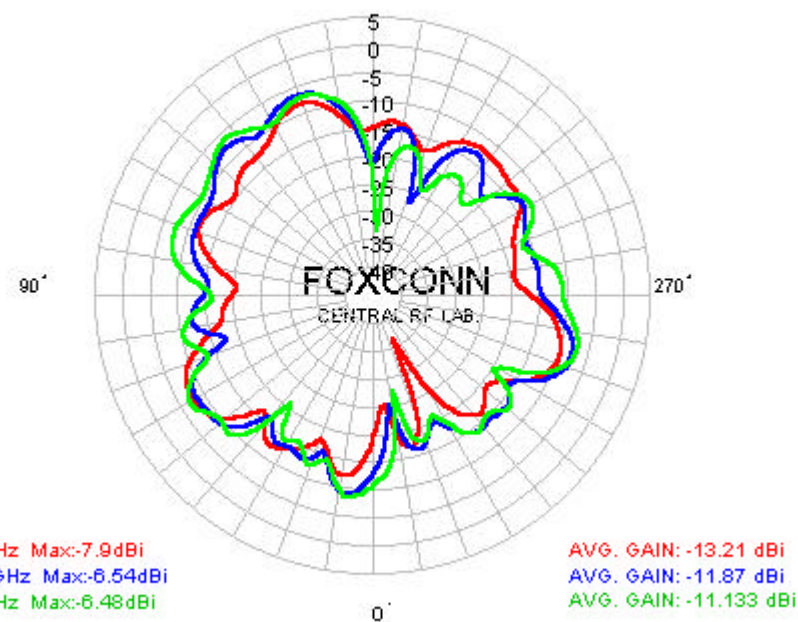
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.57	-4.20	-4.99
XY--V	-1.23	-0.95	-6.00

XY Plane Radiation Pattern For Left 14" LCD (Close)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Left 14" LCD Antenna (Close)

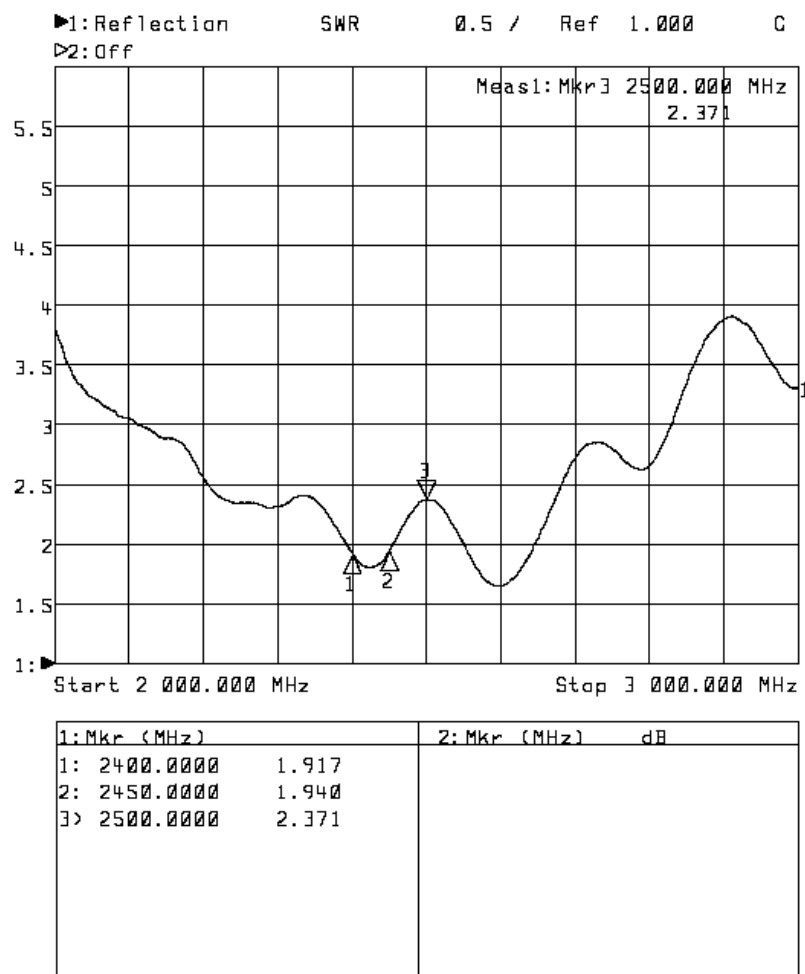
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.34	-8.17	-8.10
XY--V	-13.21	-11.87	-11.13
Total Average Gain	-7.11	-6.63	-6.35

PEAK GAIN

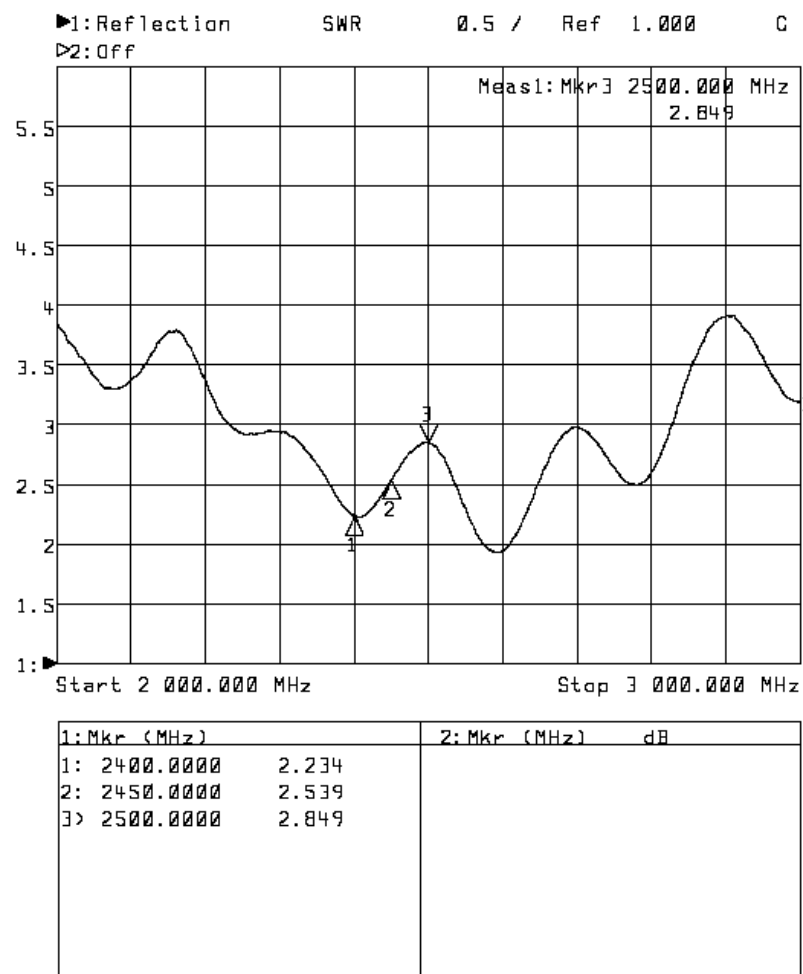
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.17	-3.32	-3.49
XY--V	-7.90	-6.54	-6.48

VSWR For Right 14" LCD

1. LCD Open

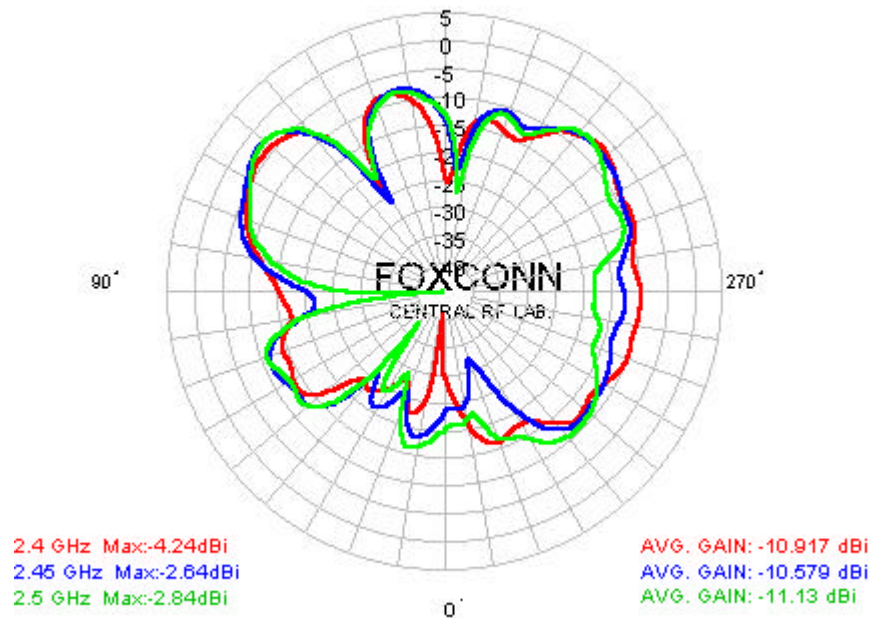


2. LCD Close

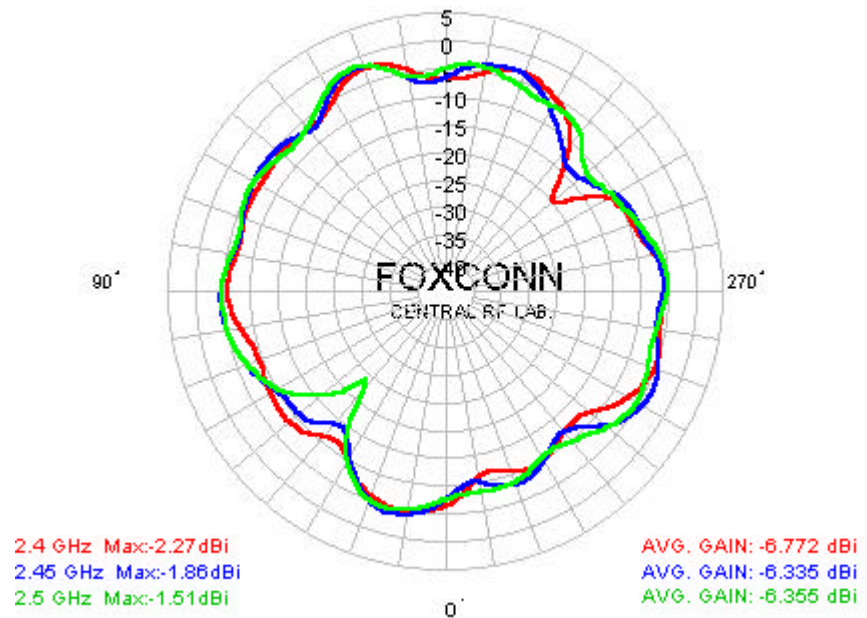


XY Plane Radiation Pattern For Right 14" LCD (Open)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Right 14" LCD Antenna (Open)

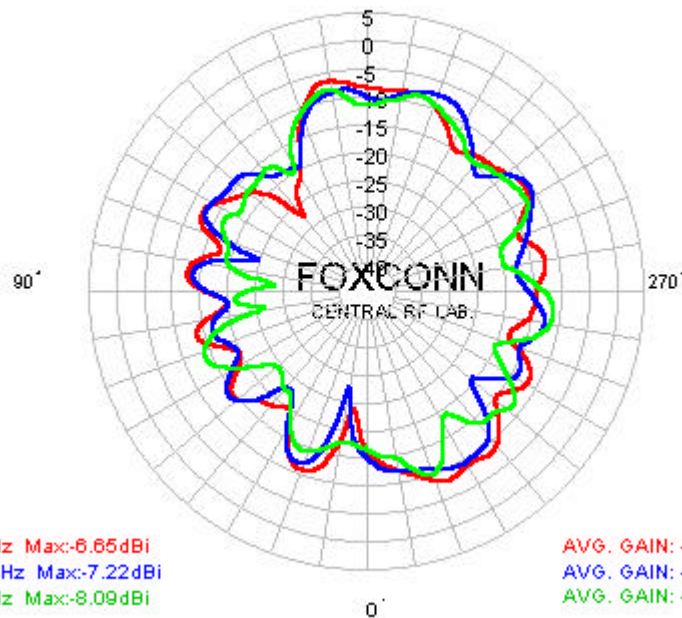
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13
XY--V	-6.77	-6.33	-6.35
Total Average Gain	-5.35	-4.94	-5.10

PEAK GAIN

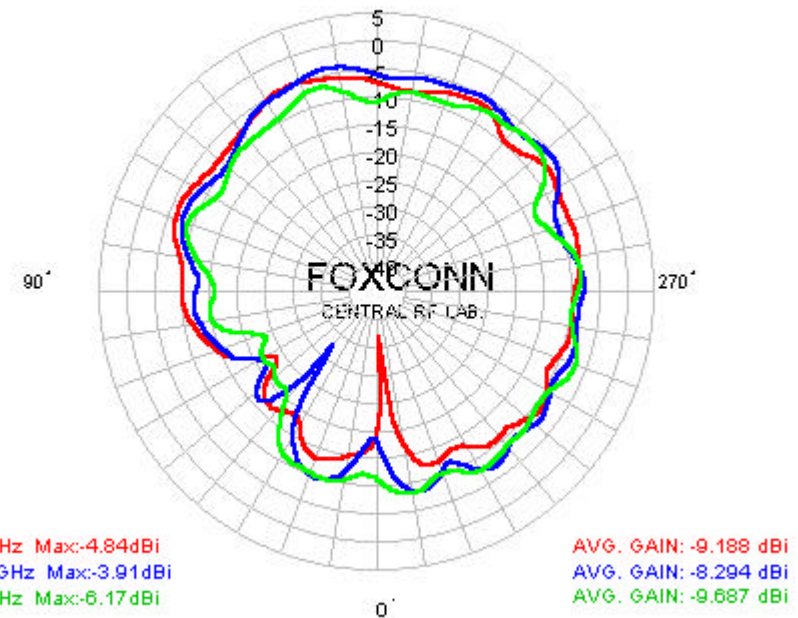
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84
XY--V	-2.27	-1.86	-1.51

XY Plane Radiation Pattern For Right 14" LCD (Close)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Right 14" LCD Antenna (Close)

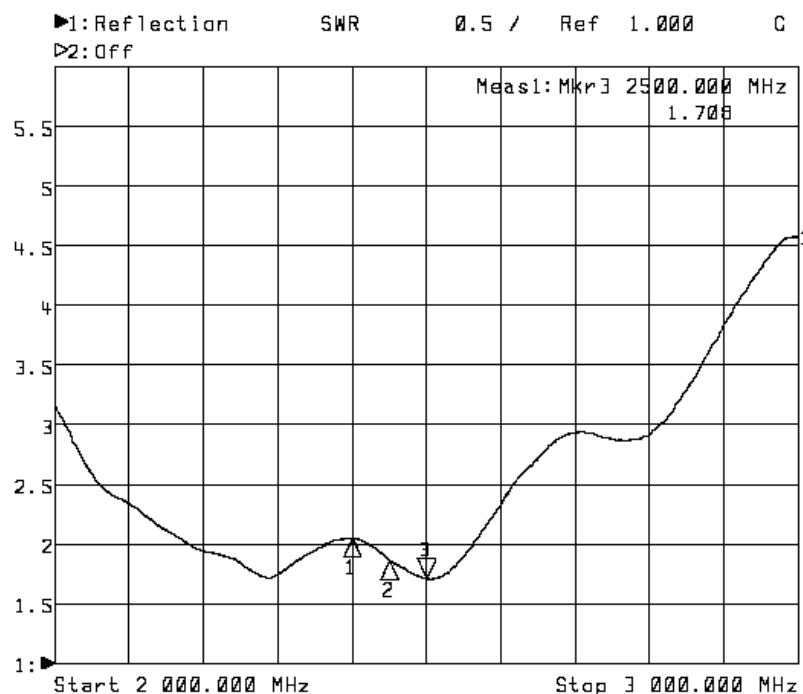
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86
XY--V	-9.18	-8.29	-9.68
Total Average Gain	-7.47	-6.98	-8.28

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09
XY--V	-4.84	-3.91	-6.17

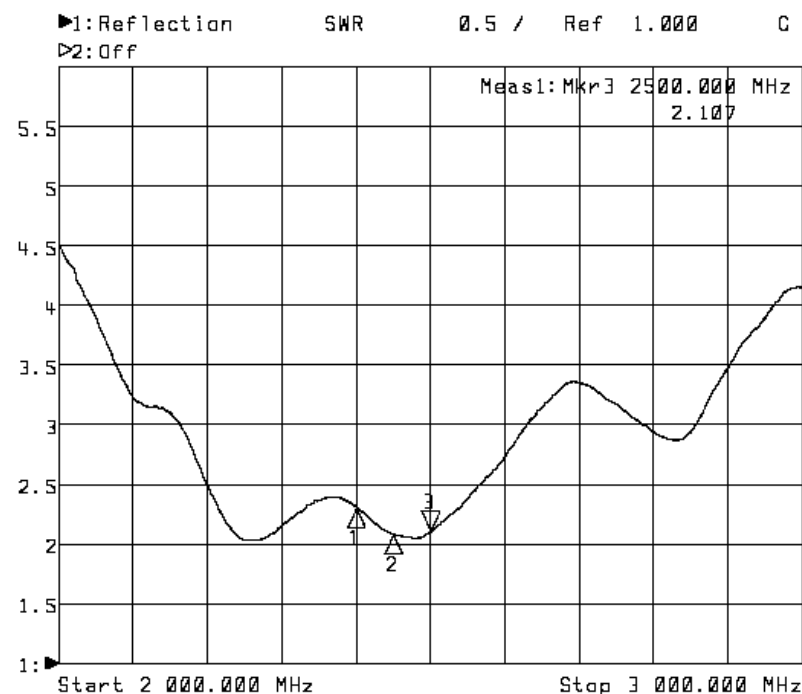
VSWR For Left 15" LCD

1. LCD Open



1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	2.045	
2: 2450.0000	1.862	
3: 2500.0000	1.708	

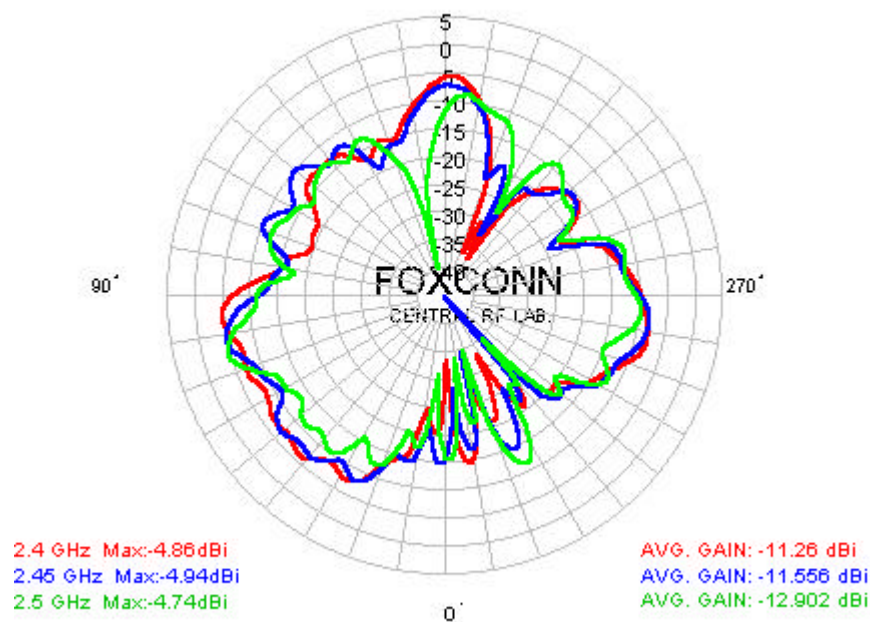
2. LCD Close



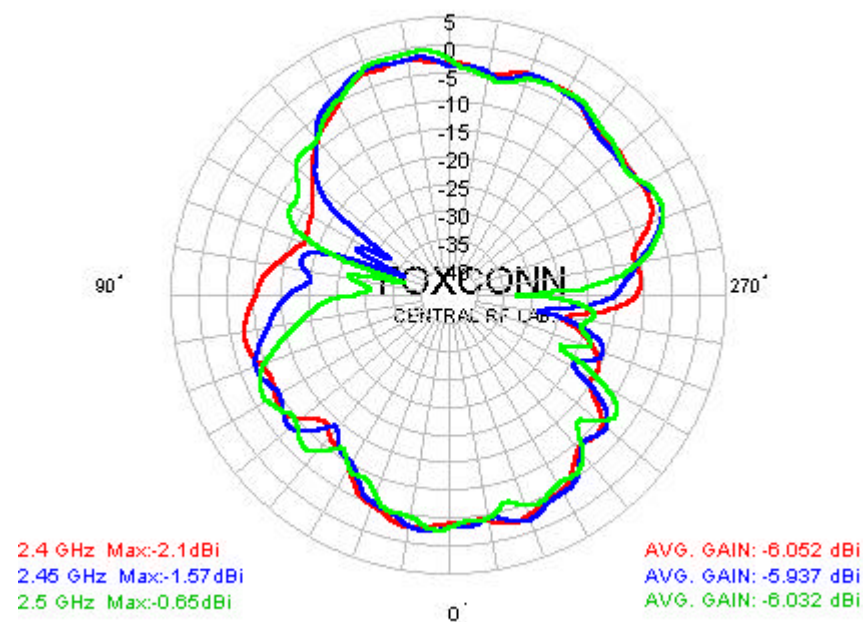
1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	2.303	
2: 2450.0000	2.078	
3: 2500.0000	2.107	

XY Plane Radiation Pattern For Left 15" LCD (Open)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Left 15" LCD Antenna (Open)

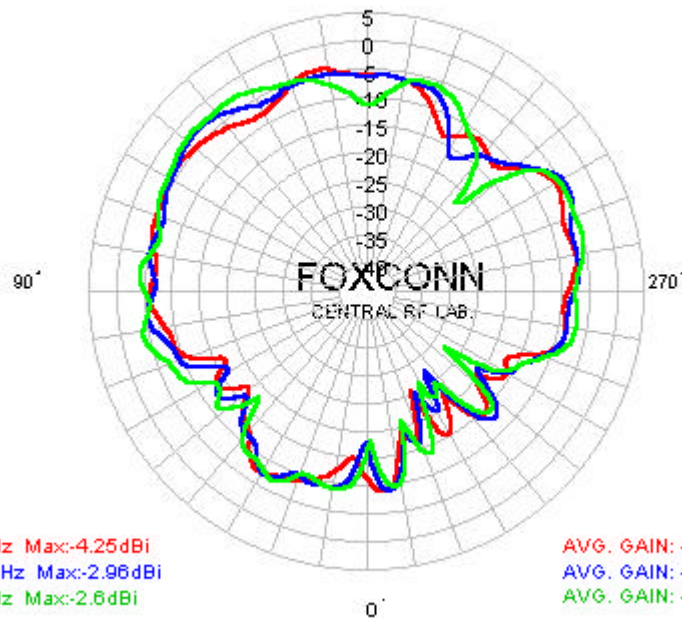
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-11.26	-11.55	-12.90
XY--V	-6.05	-5.93	-6.03
Total Average Gain	-4.91	-4.88	-5.22

PEAK GAIN

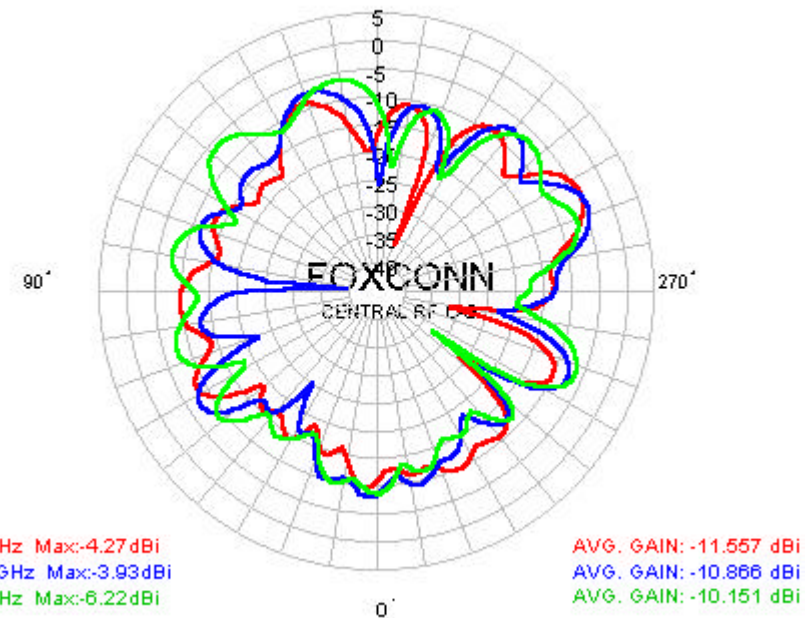
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.86	-4.94	-4.74
XY--V	-2.10	-1.57	-0.65

XY Plane Radiation Pattern For Left 15" LCD (Close)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Left 15" LCD Antenna (Close)

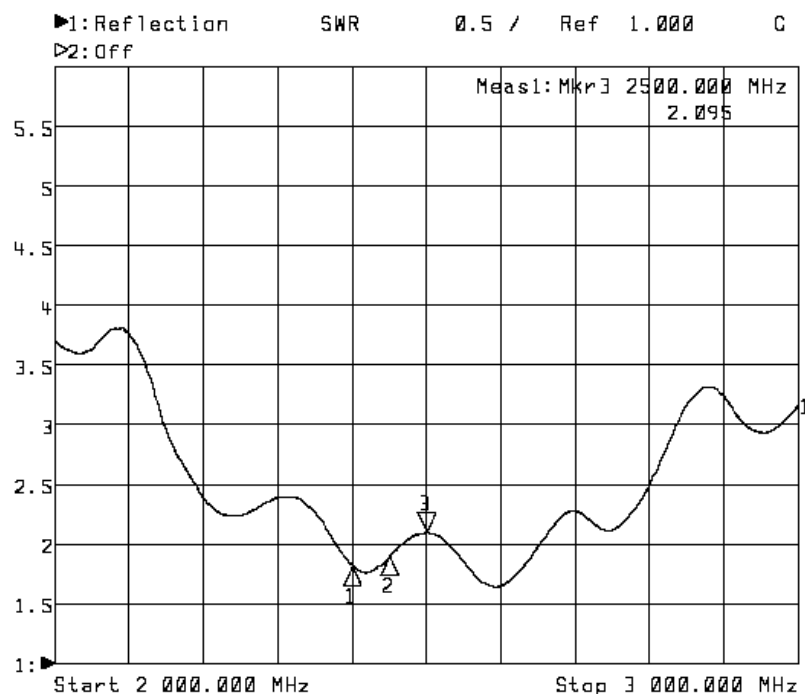
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.35	-7.80	-7.23
XY--V	-11.55	-10.86	-10.15
Total Average Gain	-6.65	-6.06	-5.44

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.25	-2.96	-2.60
XY--V	-4.27	-3.93	-6.22

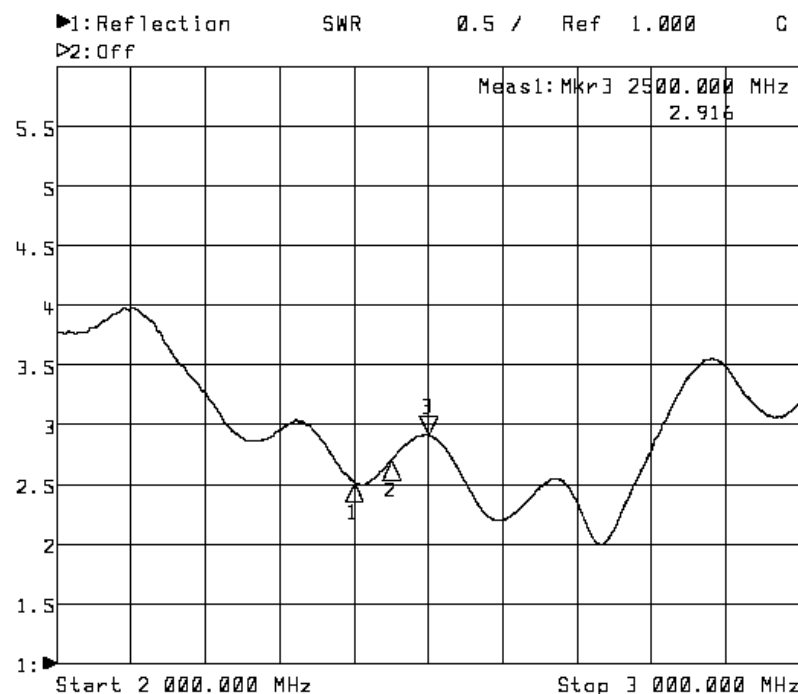
VSWR For Right 15" LCD

1. LCD Open



1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	1.816	
2: 2450.0000	1.894	
3: 2500.0000	2.095	

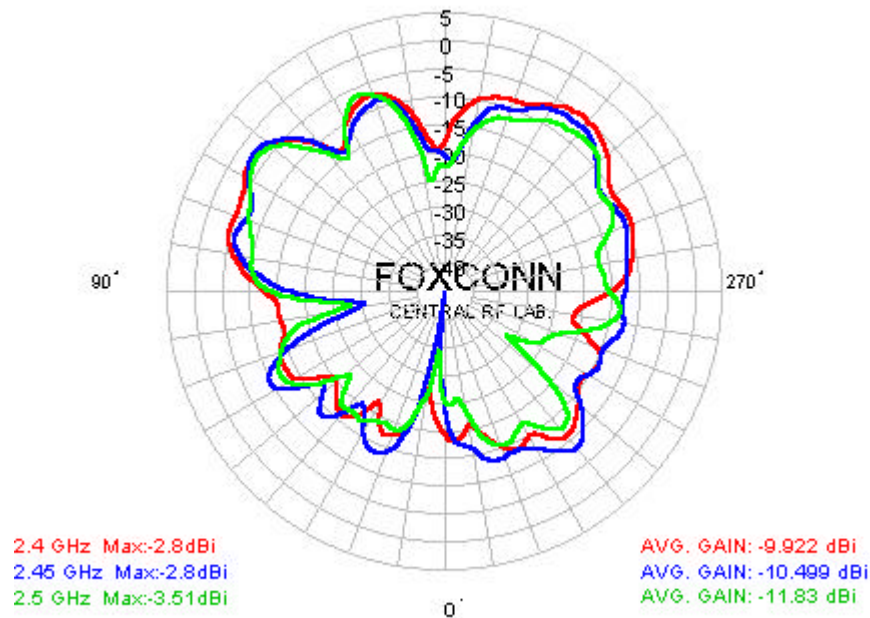
2. LCD Close



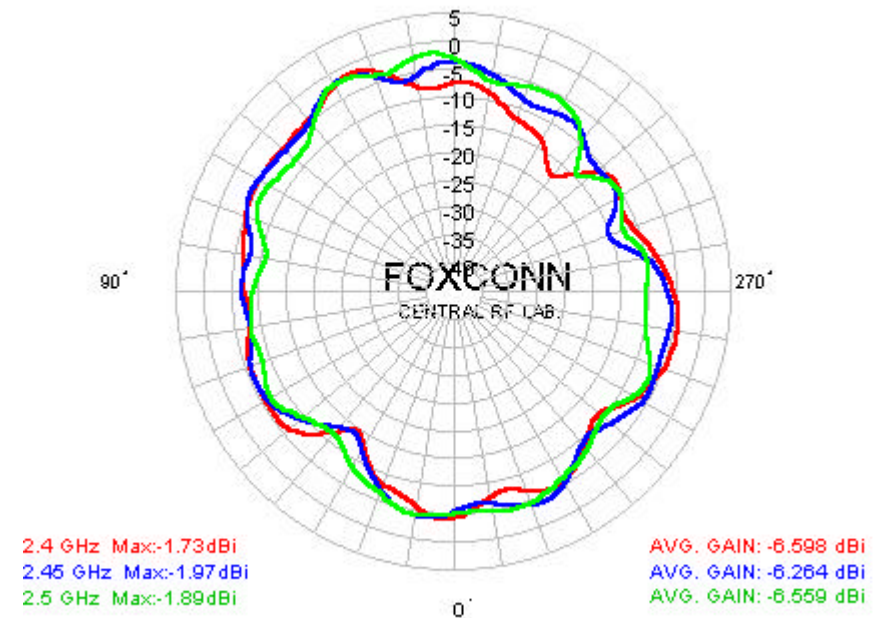
1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	2.510	
2: 2450.0000	2.705	
3: 2500.0000	2.916	

XY Plane Radiation Pattern For Right 15" LCD (Open)

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Average Gain For Right 15" LCD Antenna (Open)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-9.92	-10.49	-11.83
XY--V	-6.59	-6.26	-5.55
Total Average Gain	-4.93	-4.87	-4.63

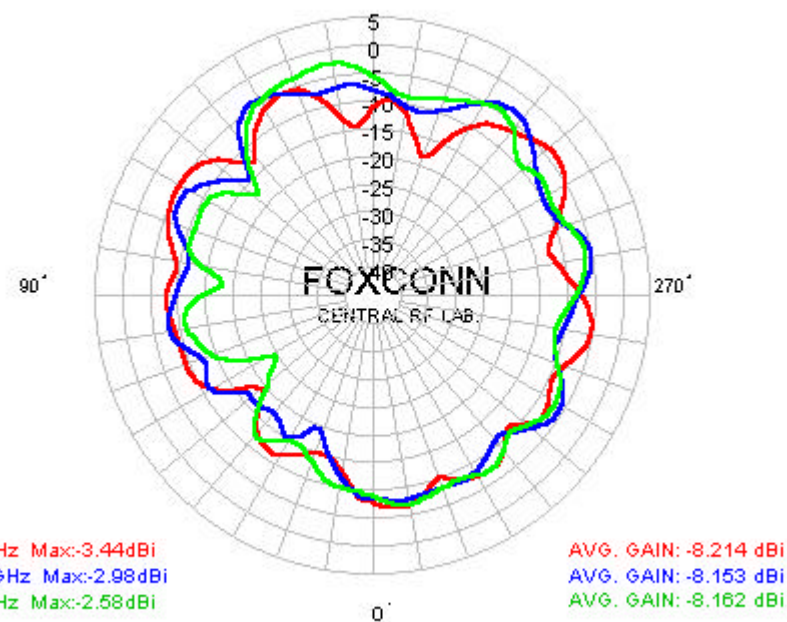
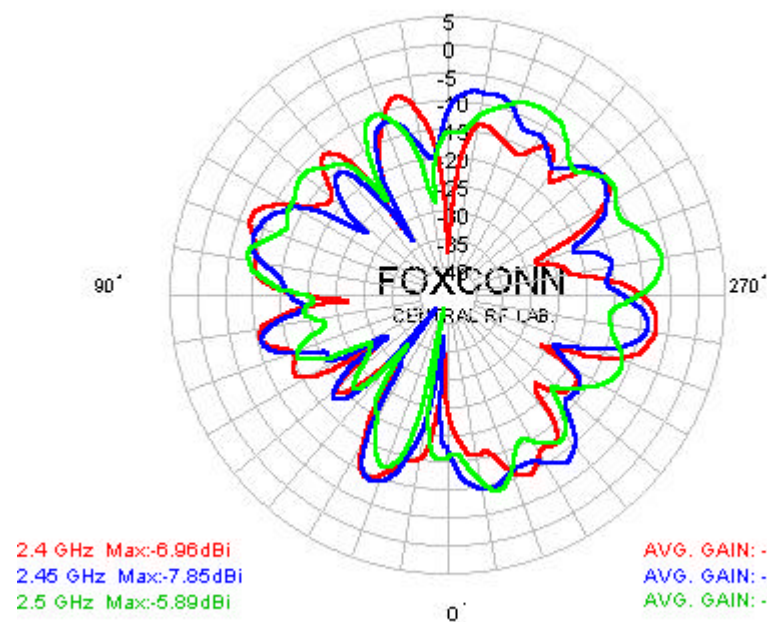
PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.80	-2.80	-3.51
XY--V	-1.73	-1.97	-1.89

XY Plane Radiation Pattern For Right 15" LCD (Close)

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



Average Gain For Right 15" LCD Antenna (Close)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.99	-12.68	-12.15
XY--V	-8.21	-8.15	-8.16
Total Average Gain	-6.96	-6.84	-6.70

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.96	-7.85	-5.89
XY--V	-3.44	-2.98	-2.58

Summary Of Total Average Gain

14" LCD Open (Left)					15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.51	-9.77	-9.98		XY-H	-11.26	-11.55	-12.90
XY--V	-6.70	-6.16	-6.21		XY--V	-6.05	-5.93	-6.03
Total Average Gain	-5.19	-4.59	-4.69		Total Average Gain	-4.91	-4.88	-5.22
14" LCD Close (Left)					15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.34	-8.17	-8.10		XY-H	-8.35	-7.80	-7.23
XY--V	-13.21	-11.87	-11.13		XY--V	-11.55	-10.86	-10.15
Total Average Gain	-7.11	-6.63	-6.35		Total Average Gain	-6.65	-6.06	-5.44
14" LCD Open (Right)					15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13		XY-H	-9.92	-10.49	-11.83
XY--V	-6.77	-6.33	-6.35		XY--V	-6.59	-6.26	-5.55
Total Average Gain	-5.35	-4.94	-5.10		Total Average Gain	-4.93	-4.87	-4.63
14" LCD Close (Right)					15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86		XY-H	-12.99	-12.68	-12.15
XY--V	-9.18	-8.29	-9.68		XY--V	-8.21	-8.15	-8.16
Total Average Gain	-7.47	-6.98	-8.28		Total Average Gain	-6.96	-6.84	-6.70

Summary Of Peak Gain

14" LCD Open (Left)					15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.57	-4.20	-4.99		XY-H	-4.86	-4.94	-4.74
XY--V	-1.23	-0.95	-6.00		XY--V	-2.10	-1.57	-0.65
14" LCD Close (Left)					15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.17	-3.32	-3.49		XY-H	-4.25	-2.96	-2.60
XY--V	-7.90	-6.54	-6.48		XY--V	-4.27	-3.93	-6.22
14" LCD Open (Right)					15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84		XY-H	-2.80	-2.80	-3.51
XY--V	-2.27	-1.86	-1.51		XY--V	-1.73	-1.97	-1.89
14" LCD Close (Right)					15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz		(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09		XY-H	-6.96	-7.85	-5.89
XY--V	-4.84	-3.91	-6.17		XY--V	-3.44	-2.98	-2.58