

TO QUANTA COMPUTER CORPORATION  
SPECIFICATION FOR APPROVAL

CUSTOMER DWG. NO./PART NO: TBD REV.: N/A

DESCRIPTION: RF CABLE ASS'Y

FOXCONN PROD NO: WDAN-Q1KT5002 REV.. AX1

ATTACHMENTS:

- 1. RF CABLE ASSEMBLY DRAWING ..... 315-0900-098
- 2. DESIGN REVIEW FOR MATERIAL LIST... ML-098
- 3. PART DRAWING ..... SGX0001-00  
703-3000-290  
014-0000-153  
040-0000-389

PLEASE RETURN TO US ONE COPY OF COVER PAGE OF THE  
"SPECIFICATION FOR APPROVAL " WITH YOUR APPROVED SIGNATURES.

APPROVED SIGNATURES		



*Hon Hai Precision Industry Co., Ltd.*

2. TZU YU ST., TU-CHEN, TAIPEI HSIEN, 23606,  
TAIWAN, R.O.C  
TEL: (02) 2683466 (02) 2681477  
TAIWAN, R.O.C  
FAX: (02) 2687795 (02) 2683225  
TLX: 32349 FOXCONNHH  
UNIFORM INVOICE NUMBER: 04541302

Approved by: Sheng Checked by: \_\_\_\_\_ Prepared by: Paul Zhou

FILE NO.: SFA-098 REVISION NO.: AX1 DATE: Mar 5, 2002

## DESIGN REVIEW FOR MATERIAL LIST

QUANTA P/N . TBD

NO : ML-098

DESCRIPTION . RF CABLE ASS'Y

PAGE . 1/1

ITEM	DESCRIPTION	SUPPLIER/AGENCY						QUANTA PART NUMBER	QUANTITY	REMARK
		SUPPLIER	SUPPLIER PART NO.	FOXCONN PART NO.	AVL	UL SUBMIT	CSA SUBMIT			
1	COAXIAL CABLE	HITACHI OR	HCM-40309/1	014-3031-153		N/A	N/A		A/R	
		ACTUONE	703-3000-290	703-3000-290		N/A	N/A		A/R	
2	RF CONN.	FOXCONN	SGX0001-00	SGX0001-00		N/A	N/A		1 PC	
3	PCB (RIGHT)	FOXCONN	040-0002-893	040-0002-893		N/A	N/A		1 PC	

APPROVED BY: Sheng Tai 3/6/2002

CHECKED BY: \_\_\_\_\_

PREPARED BY: Paul Zhou 3/5/2002

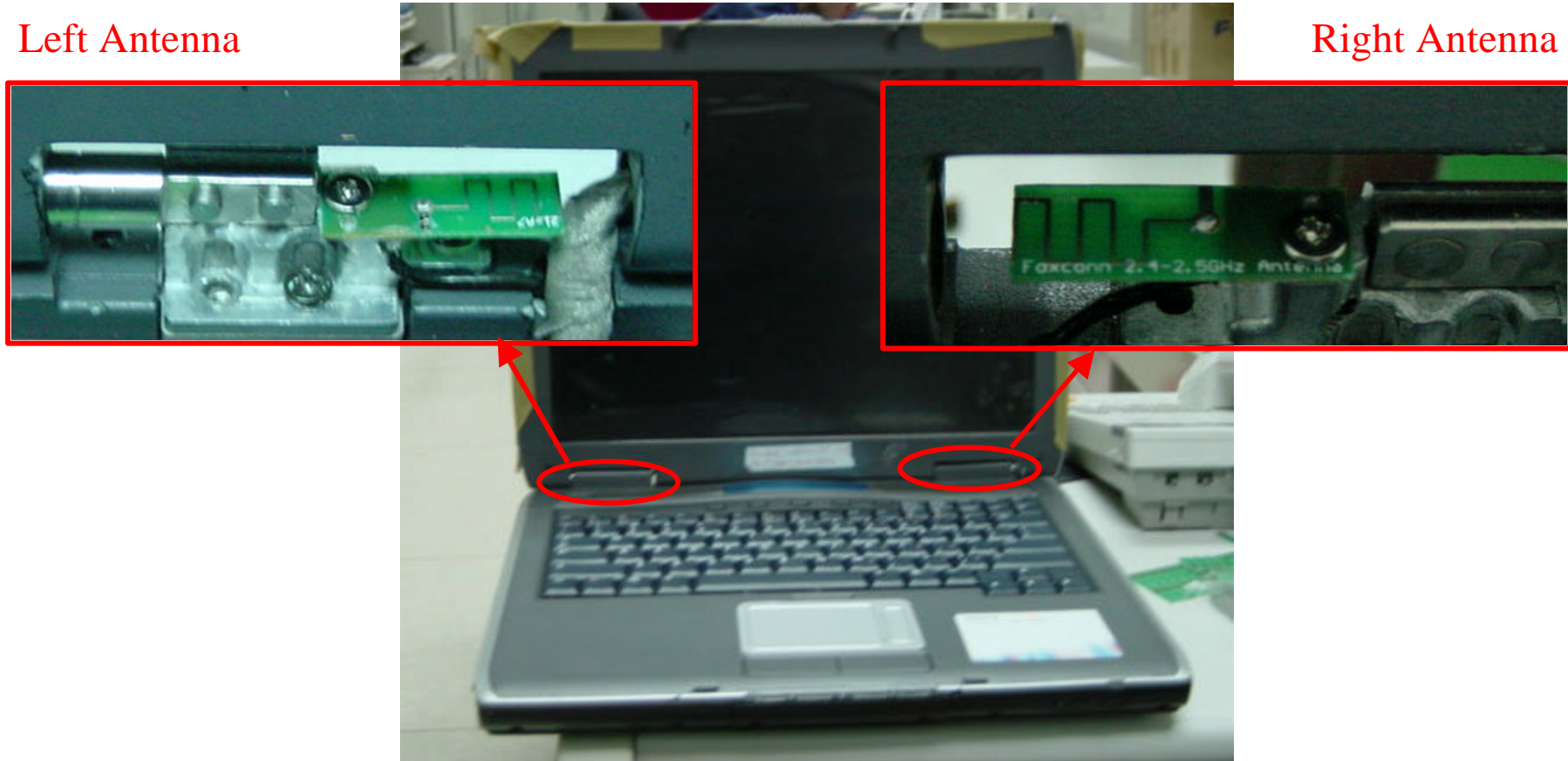
# Quanta KT1,5 Antenna Test Report

Sheng Tai

# Antenna Location

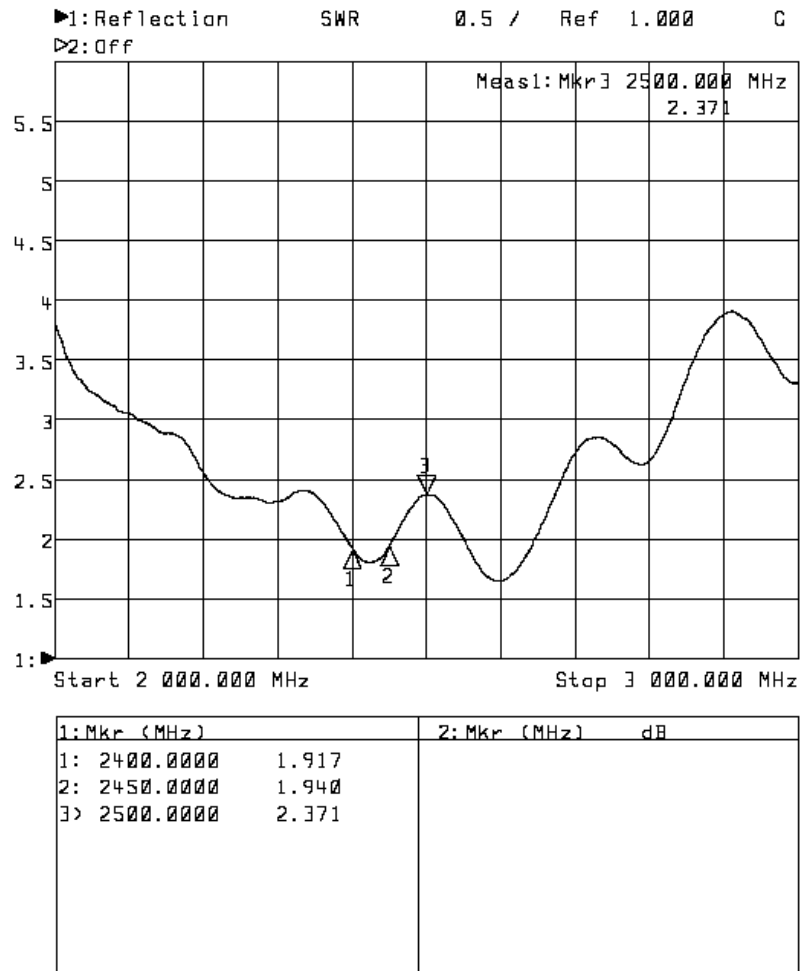
Left Antenna

Right Antenna

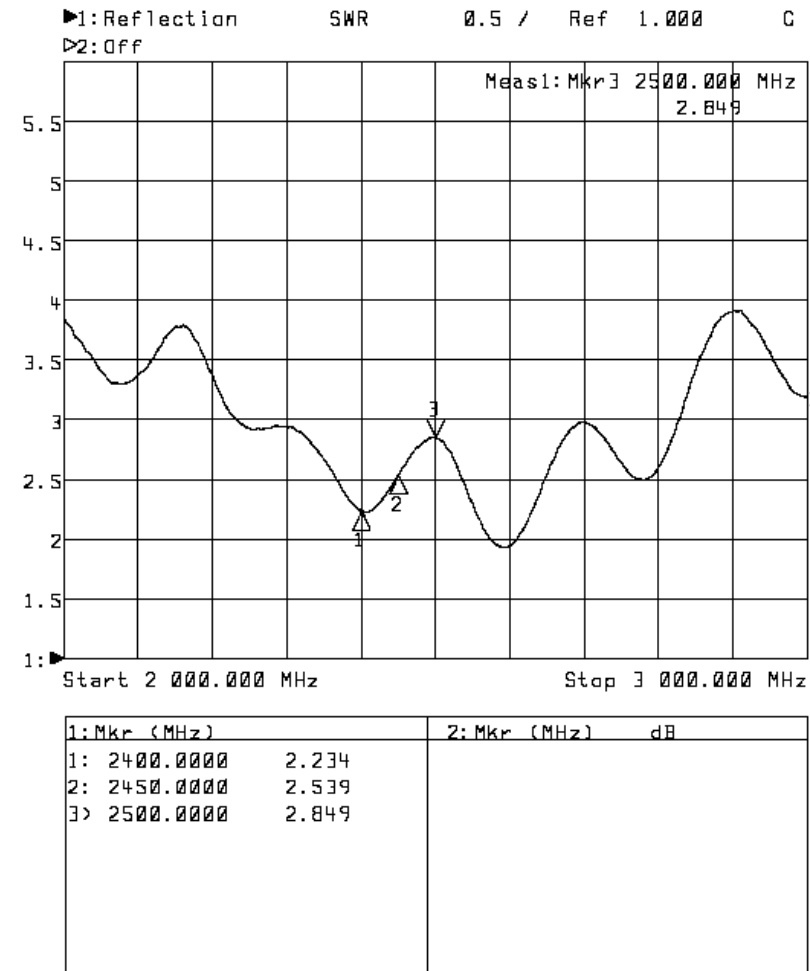


# VSWR For Right 14" LCD

## 1. LCD Open



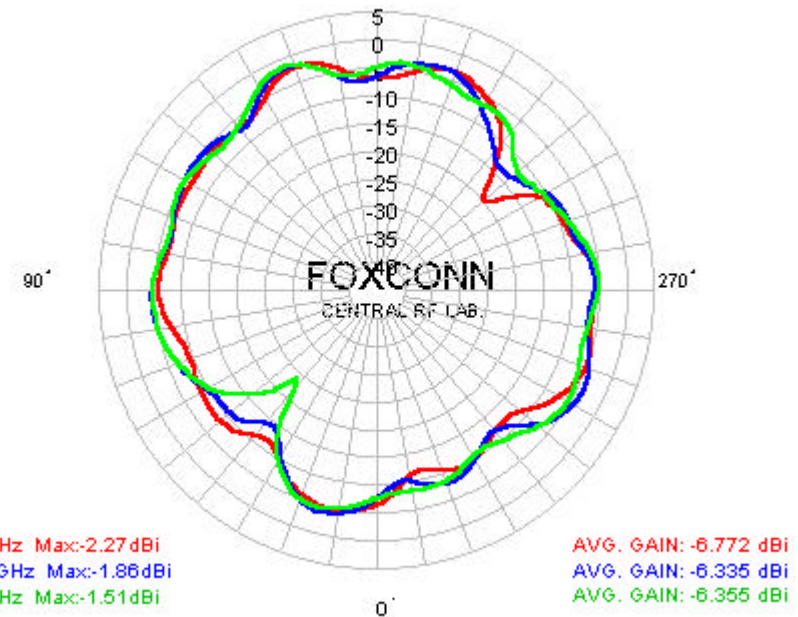
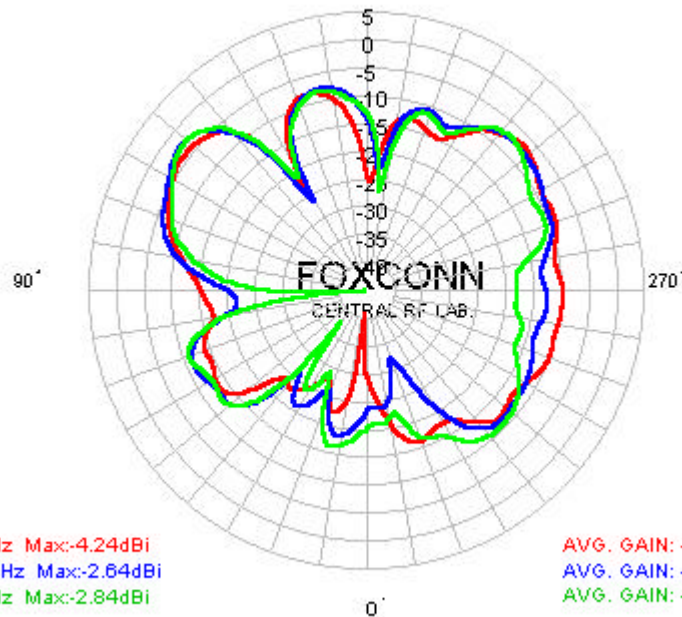
## 2. LCD Close



# 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
<b>XY-H</b>	<b>-10.91</b>	<b>-10.57</b>	<b>-11.13</b>
<b>XY--V</b>	<b>-6.77</b>	<b>-6.33</b>	<b>-6.35</b>
<b>Total Average Gain</b>	<b>-5.35</b>	<b>-4.94</b>	<b>-5.10</b>

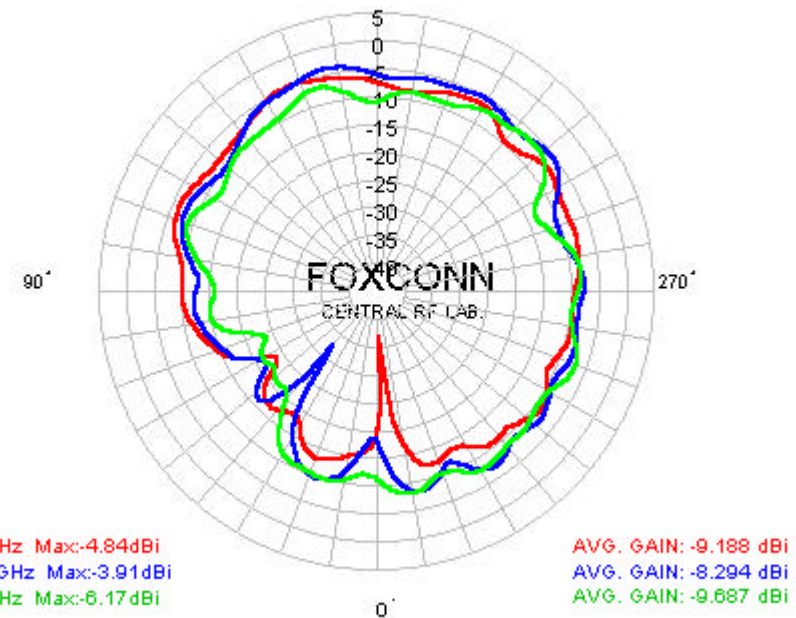
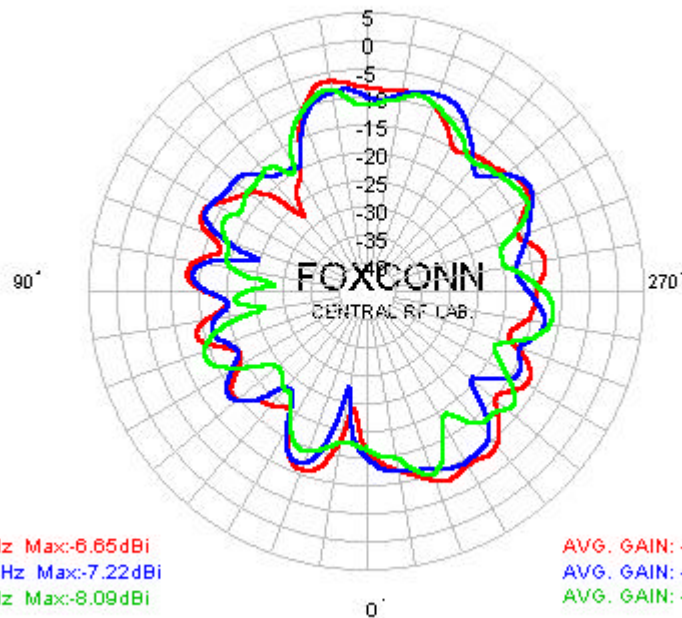
## PEAK GAIN

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

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

## HORIZONTAL POLARIZATION

## VERTICAL POLARIZATION





## Average Gain For Right 14" LCD Antenna (Close)

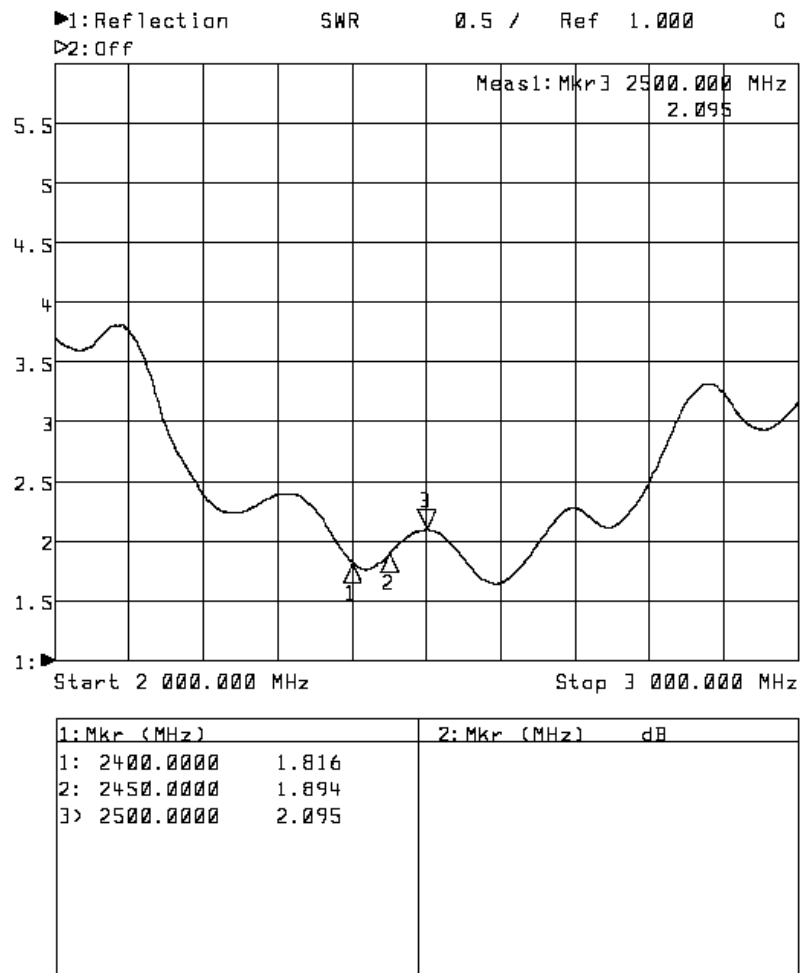
(dBi)	2400 MHz	2450 MHz	2500 MHz
<b>XY-H</b>	<b>-12.35</b>	<b>-12.82</b>	<b>-13.86</b>
<b>XY--V</b>	<b>-9.18</b>	<b>-8.29</b>	<b>-9.68</b>
<b>Total Average Gain</b>	<b>-7.47</b>	<b>-6.98</b>	<b>-8.28</b>

## PEAK GAIN

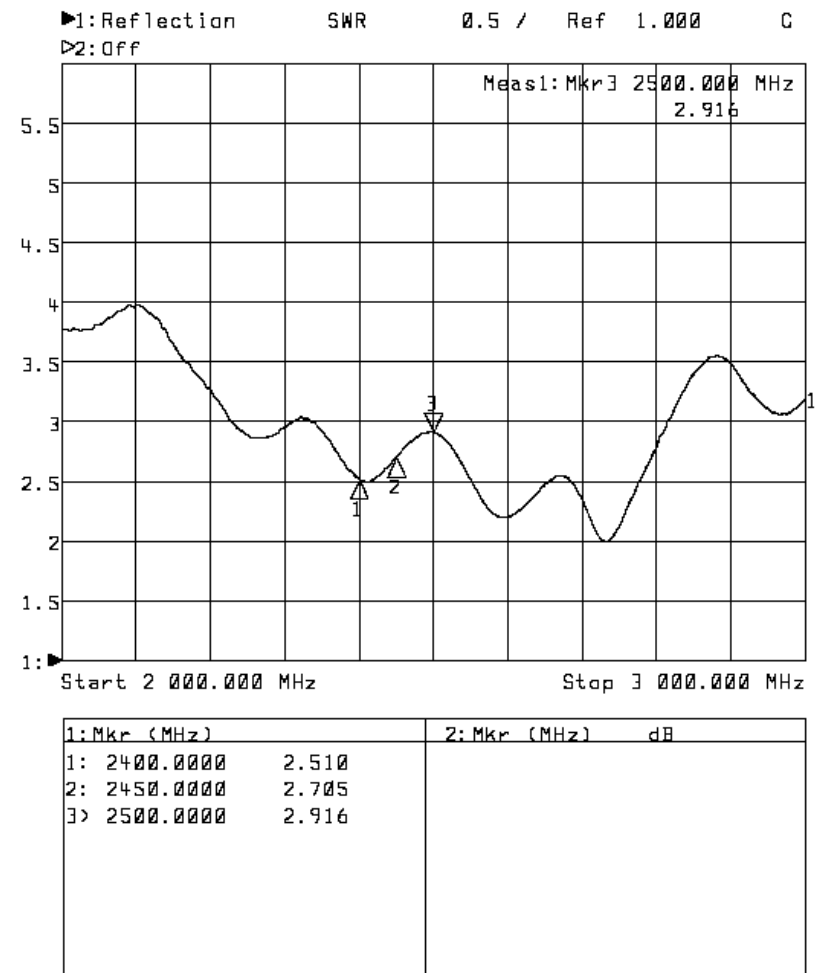
(dBi)	2400 MHz	2450 MHz	2500 MHz
<b>XY-H</b>	<b>-6.65</b>	<b>-7.22</b>	<b>-8.09</b>
<b>XY--V</b>	<b>-4.84</b>	<b>-3.91</b>	<b>-6.17</b>

# VSWR For Right 15" LCD

## 1. LCD Open



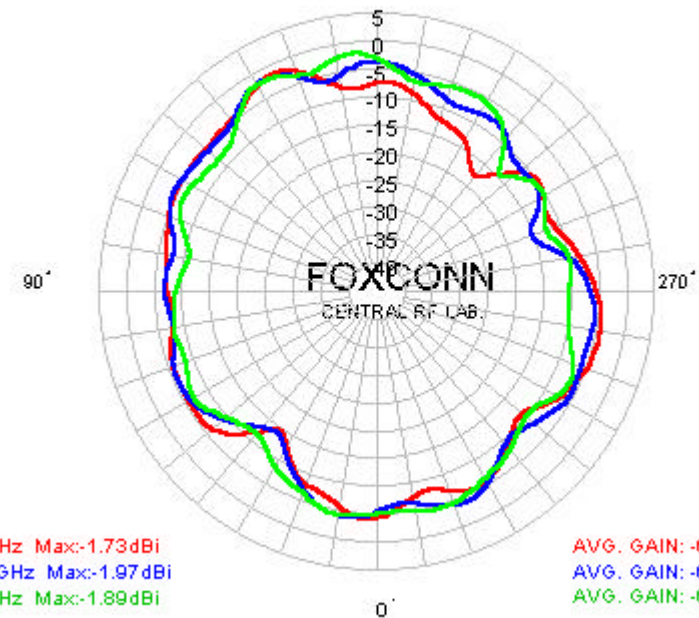
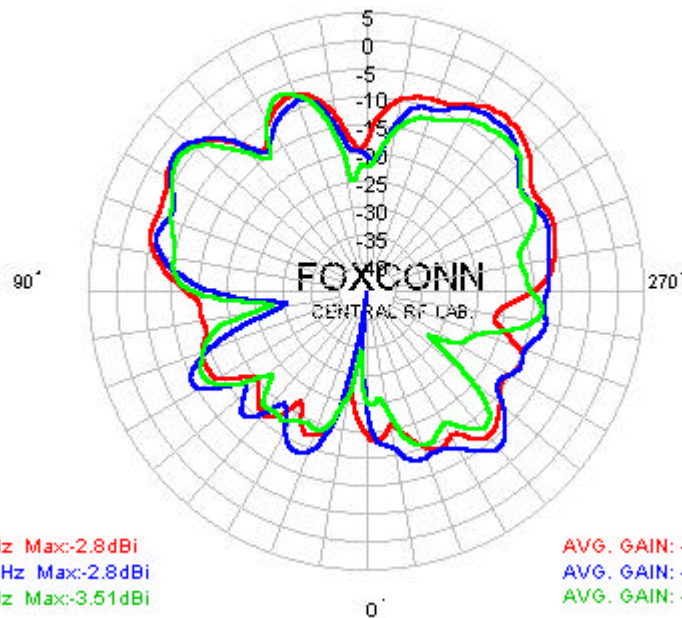
## 2. LCD Close



# 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
<b>XY-H</b>	<b>-9.92</b>	<b>-10.49</b>	<b>-11.83</b>
<b>XY--V</b>	<b>-6.59</b>	<b>-6.26</b>	<b>-5.55</b>
<b>Total Average Gain</b>	<b>-4.93</b>	<b>-4.87</b>	<b>-4.63</b>

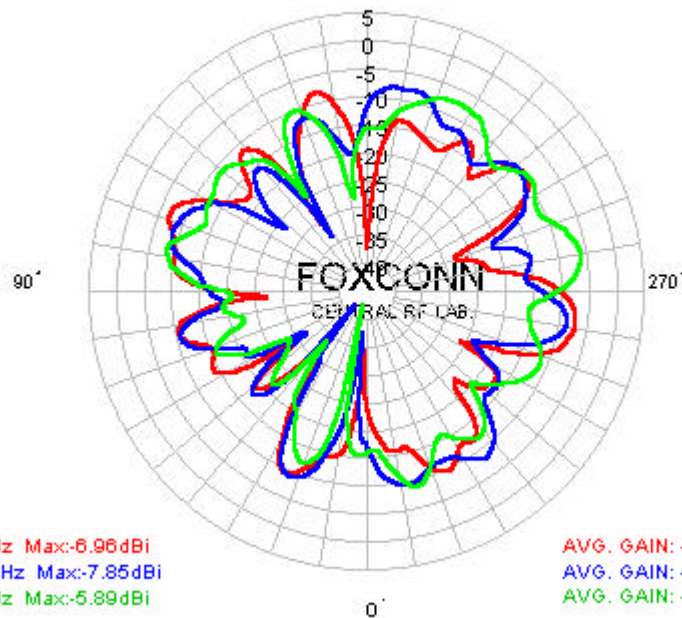
## PEAK GAIN

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

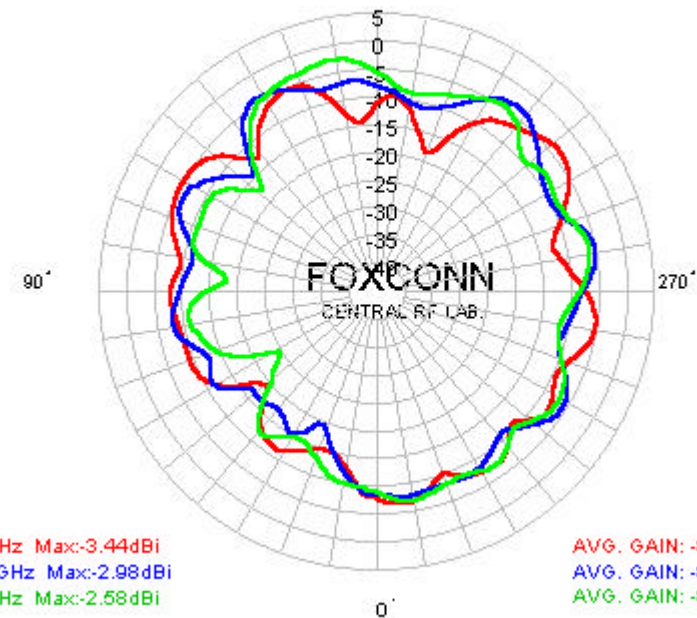
# XY Plane Radiation Pattern For Right 15" LCD (Close)

## HORIZONTAL POLARIZATION

## VERTICAL POLARIZATION



AVG. GAIN: -12.993 dBi  
AVG. GAIN: -12.884 dBi  
AVG. GAIN: -12.154 dBi



AVG. GAIN: -8.214 dBi  
AVG. GAIN: -8.153 dBi  
AVG. GAIN: -8.162 dBi

## Average Gain For Right 15" LCD Antenna (Close)

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

## PEAK GAIN

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

## Summary Of Total Average Gain

<b>14" LCD Open (Left)</b>				<b>15" LCD Open (Left)</b>			
(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
<b>Total Average Gain</b>	<b>-5.19</b>	<b>-4.59</b>	<b>-4.69</b>	<b>Total Average Gain</b>	<b>-4.91</b>	<b>-4.88</b>	<b>-5.22</b>
<b>14" LCD Close (Left)</b>				<b>15" LCD Close (Left)</b>			
(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
<b>Total Average Gain</b>	<b>-7.11</b>	<b>-6.63</b>	<b>-6.35</b>	<b>Total Average Gain</b>	<b>-6.65</b>	<b>-6.06</b>	<b>-5.44</b>
<b>14" LCD Open (Right)</b>				<b>15" LCD Open (Right)</b>			
(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
<b>Total Average Gain</b>	<b>-5.35</b>	<b>-4.94</b>	<b>-5.10</b>	<b>Total Average Gain</b>	<b>-4.93</b>	<b>-4.87</b>	<b>-4.63</b>
<b>14" LCD Close (Right)</b>				<b>15" LCD Close (Right)</b>			
(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
<b>Total Average Gain</b>	<b>-7.47</b>	<b>-6.98</b>	<b>-8.28</b>	<b>Total Average Gain</b>	<b>-6.96</b>	<b>-6.84</b>	<b>-6.70</b>

## Summary Of Peak Gain

<b>14" LCD Open (Left)</b>				<b>15" LCD Open (Left)</b>			
(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
<b>14" LCD Close (Left)</b>				<b>15" LCD Close (Left)</b>			
(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
<b>14" LCD Open (Right)</b>				<b>15" LCD Open (Right)</b>			
(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
<b>14" LCD Close (Right)</b>				<b>15" LCD Close (Right)</b>			
(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