

DATE : Dec . 18. 2003

CUSTOMER: Uniwill Computer, INC.

TEST REPORT

MODEL	258KA0
DESCRIPTION	Dual Band PIFA Antenna For Wireless Antenna
SUPPLIER P/N	
CUSTOMER P/N	
FILE P/N	

FAVORTRON			Customer	
Manager	Supervisor	Engineer		



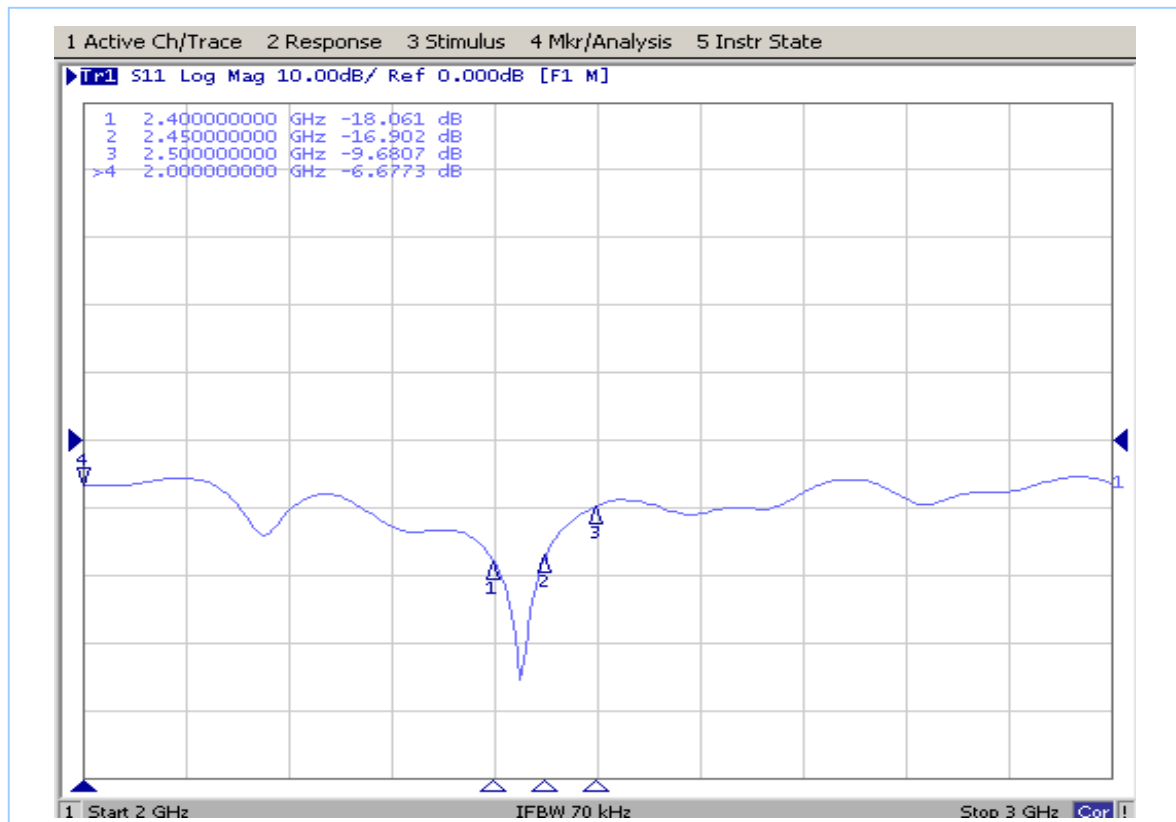
惠貿電子股份有限公司
FAVORTRON CO., LTD

台北縣中和市中正路 866 號 17F TEL: (02) 8227-5669

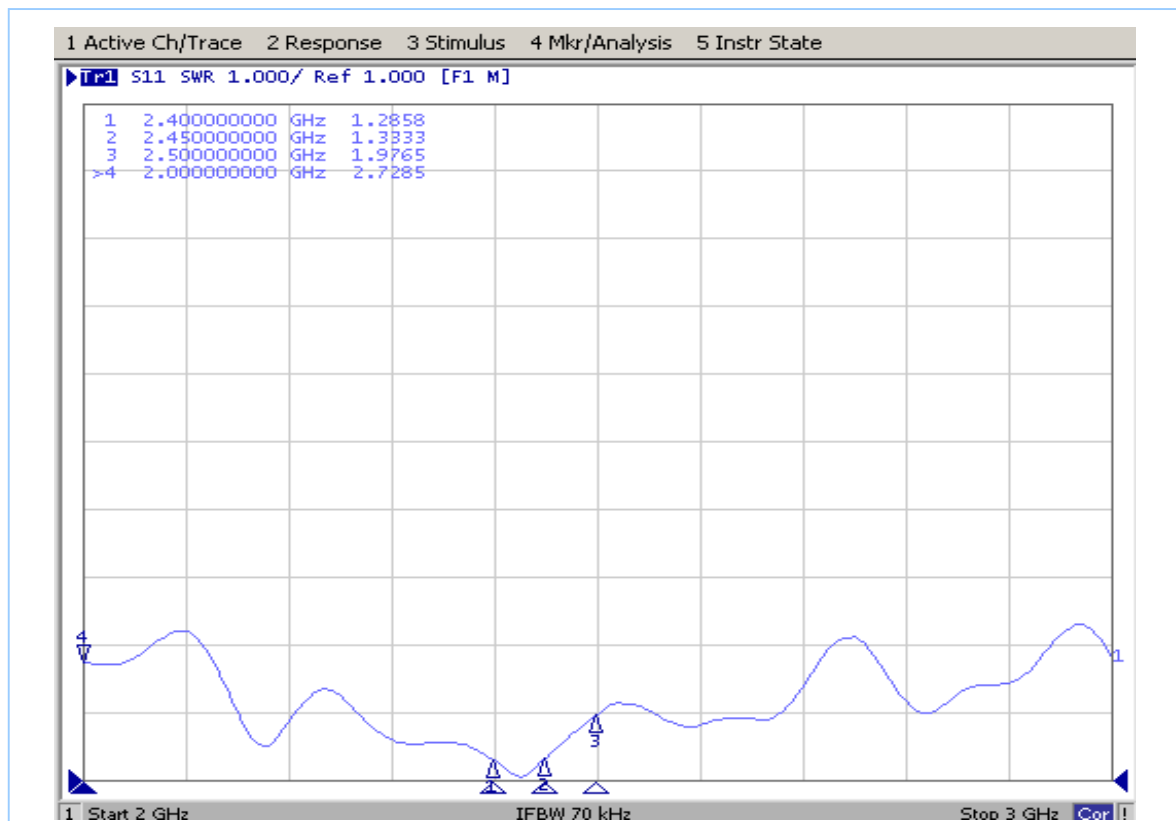
17nd F, no. 866, Zhong Zheng Rd., FAX: (02) 8227-5667
Zhong He City, Taipei Hsien, Taiwan R.O.C

1. LCD Top Left / In Notebook / W/L PIFA Ant.

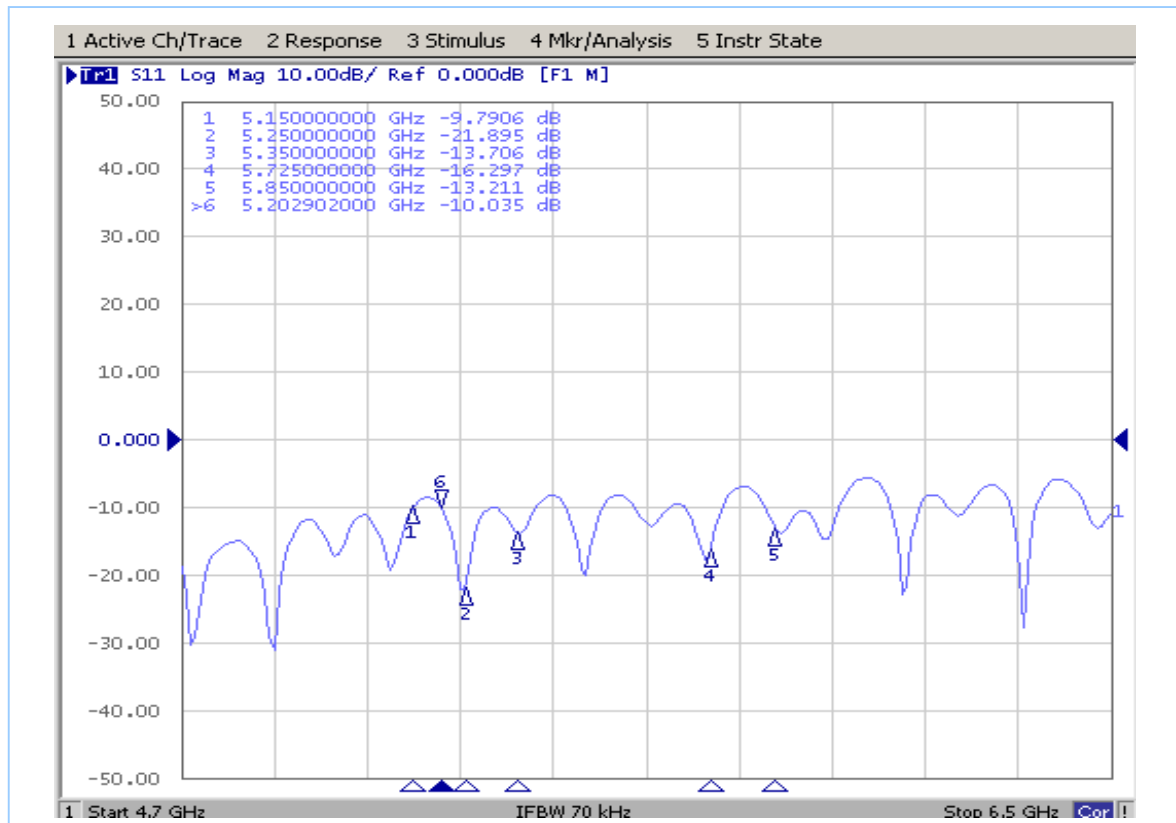
2.4~2.5GHz / Return Loss



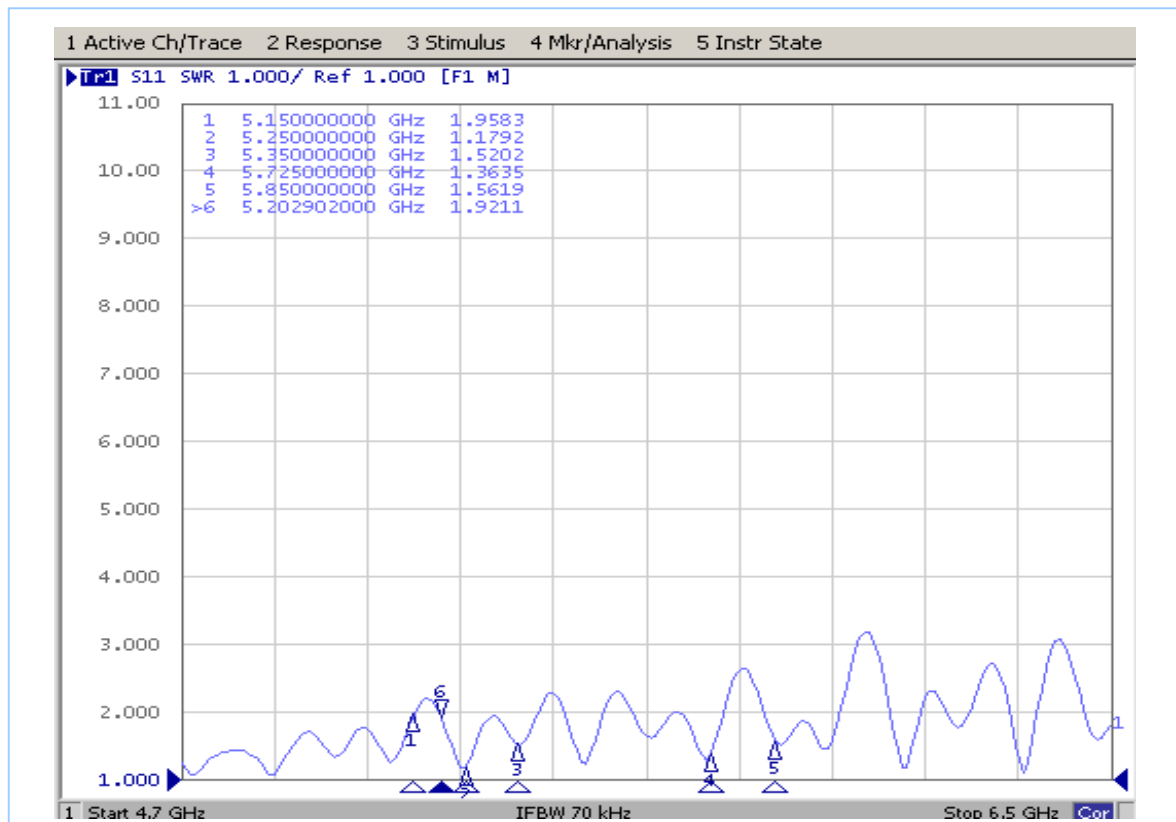
2.4~2.5GHz / VSWR



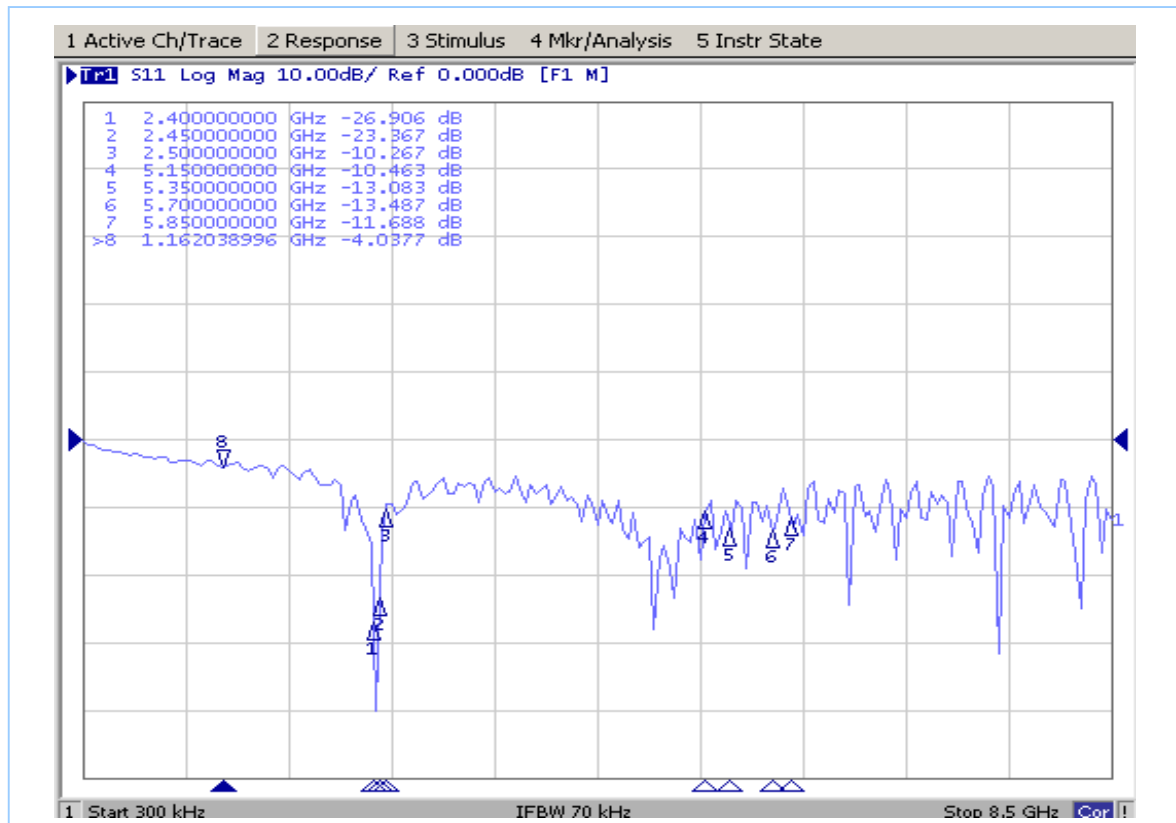
5.15 ~ 5.35GHz / Return Loss



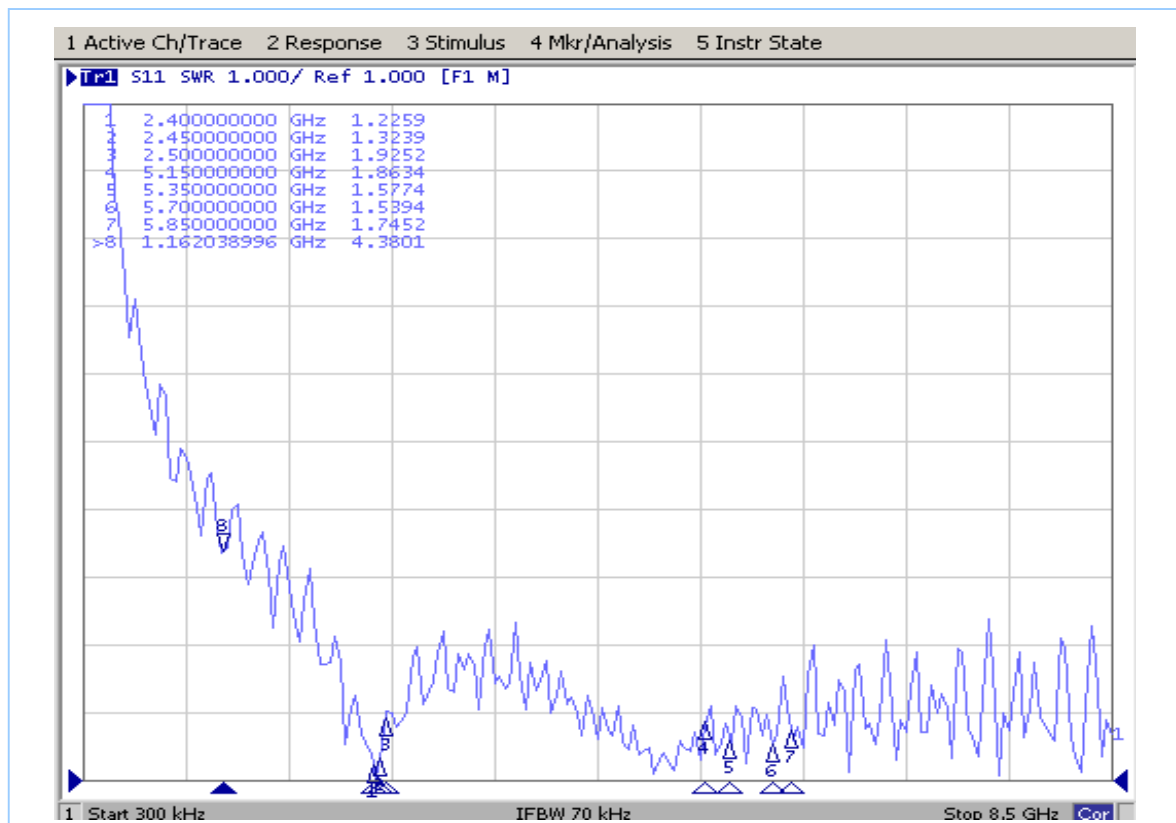
5.15 ~ 5.35GHz / VSWR



2.4~2.5GHz & 5.15~5.35GHz / Return Loss

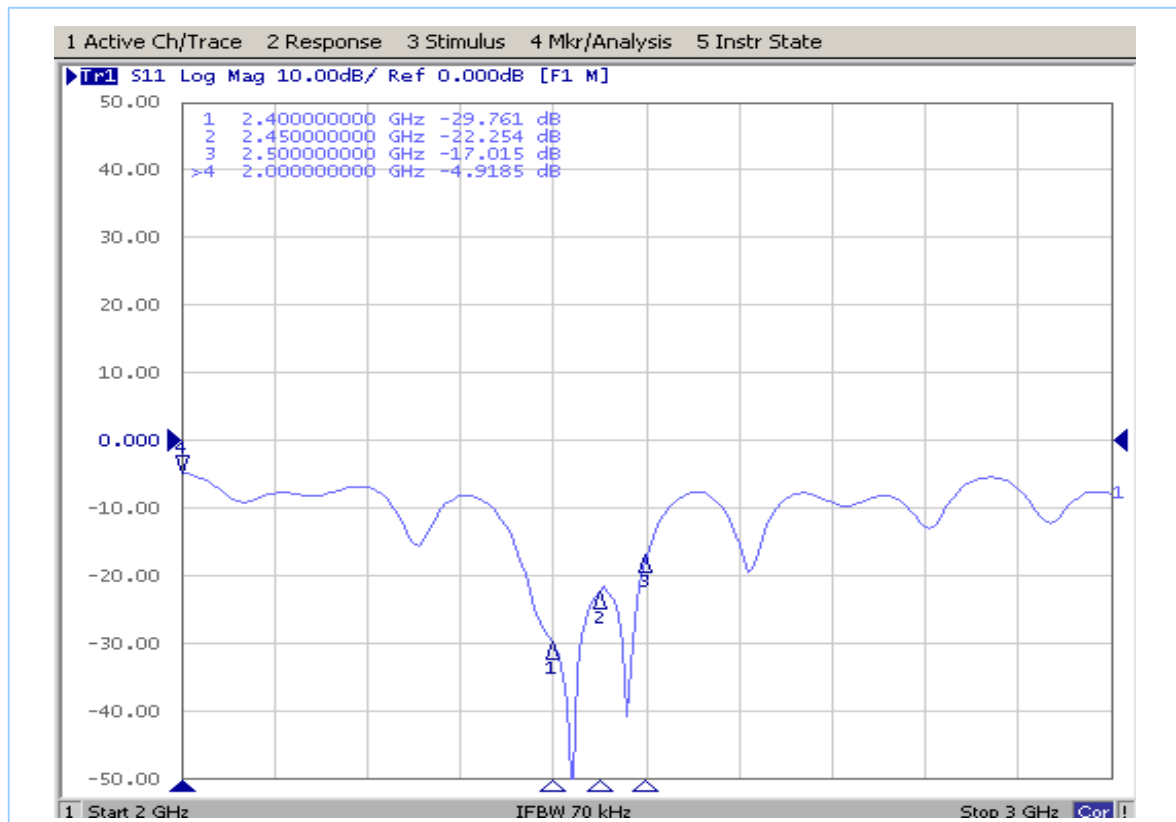


2.4~2.5GHz & 5.15~5.35GHz / VSWR

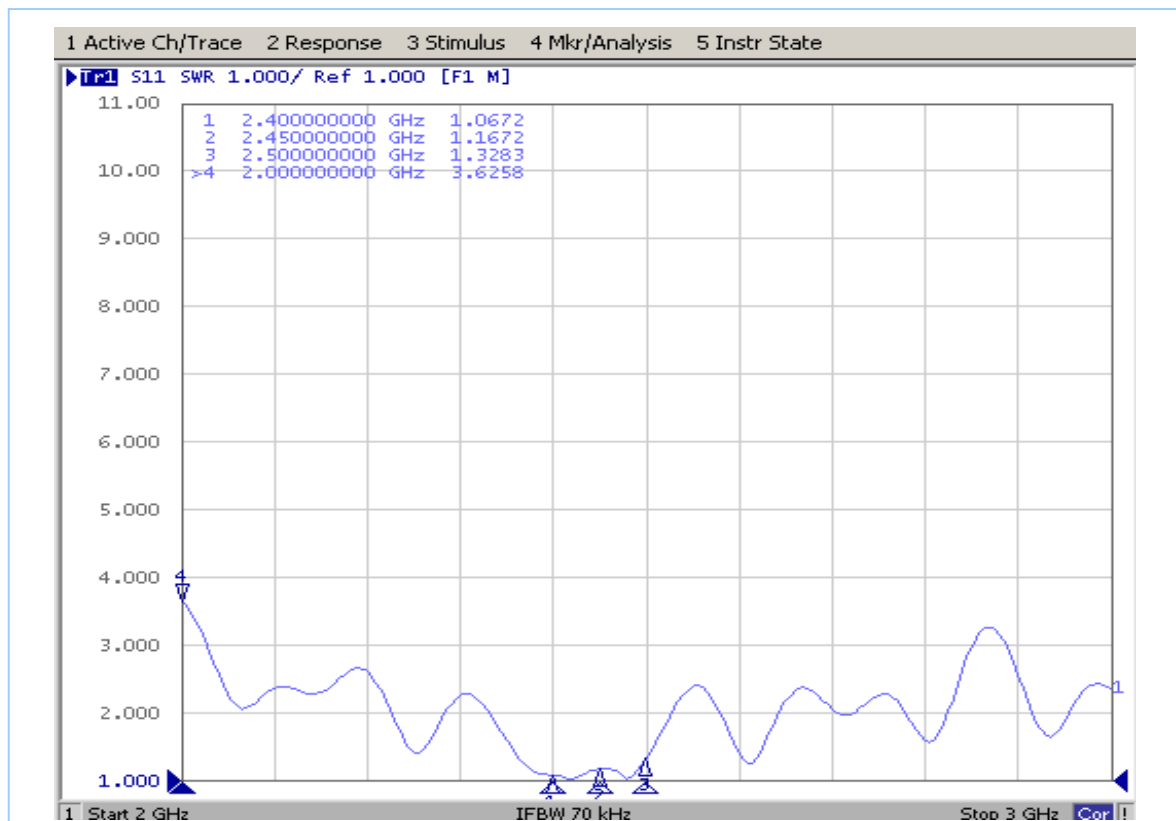


2. LCD Top Right / In Notebook / W/L PIFA Ant.

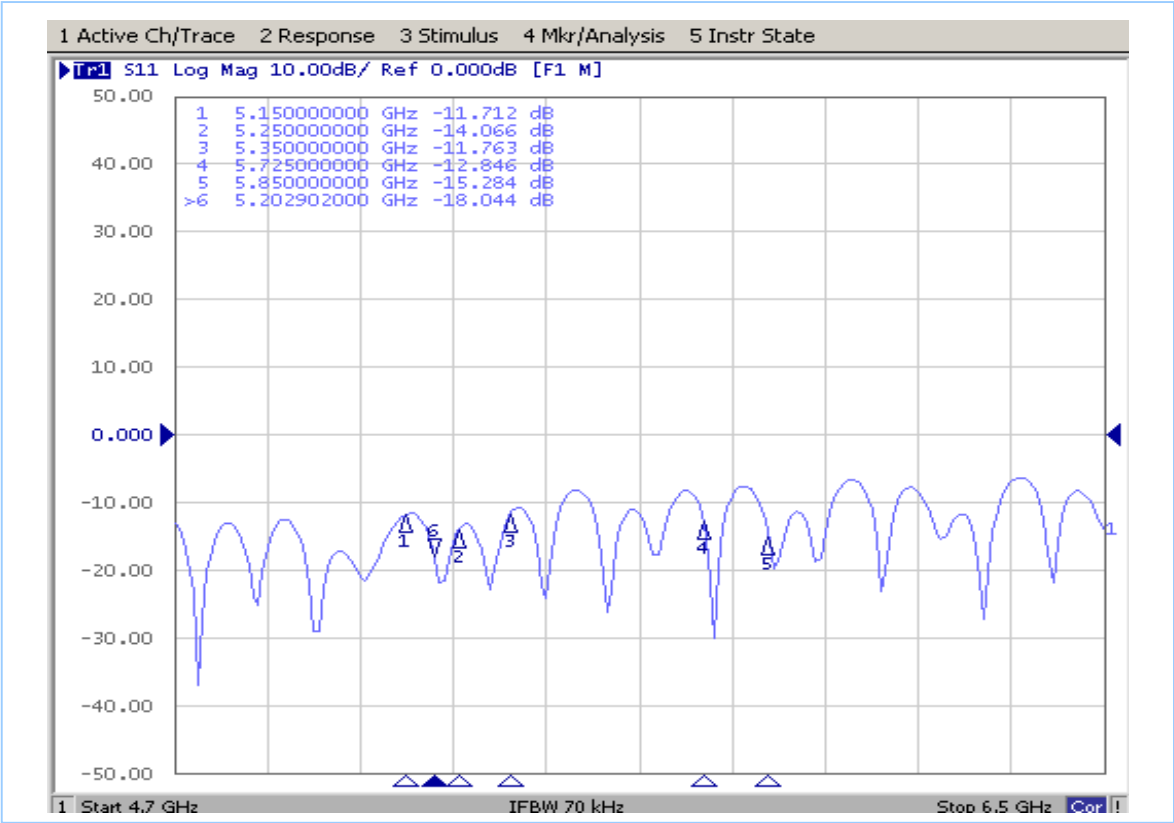
2.4~2.5GHz / Return Loss



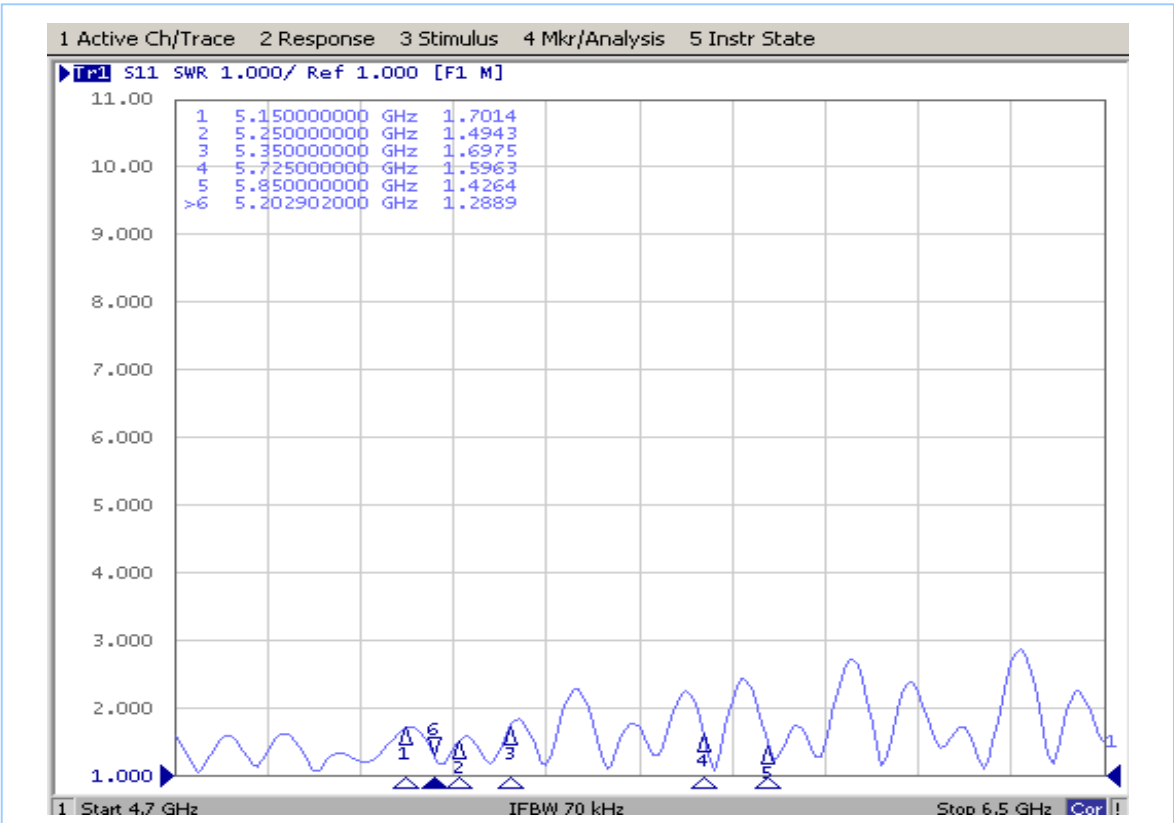
2.4~2.5GHz / VSWR



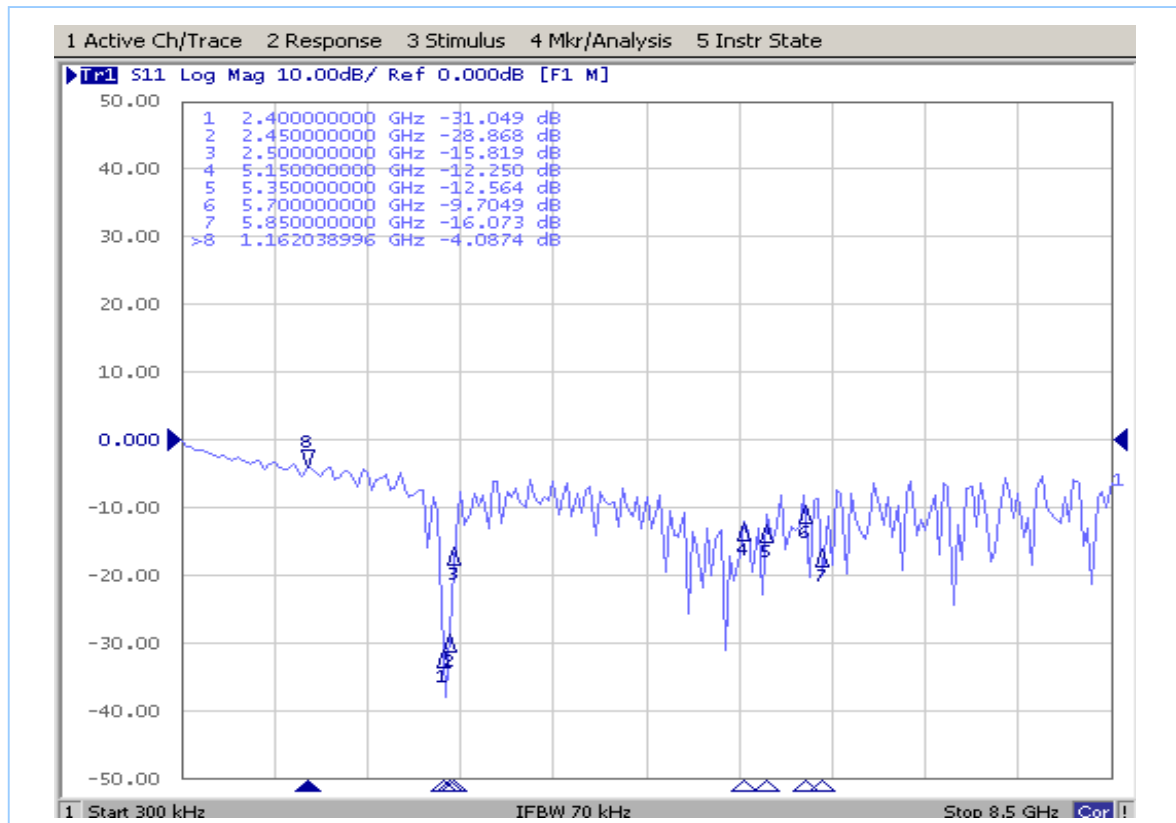
5.15~5.35GHz / Return Loss



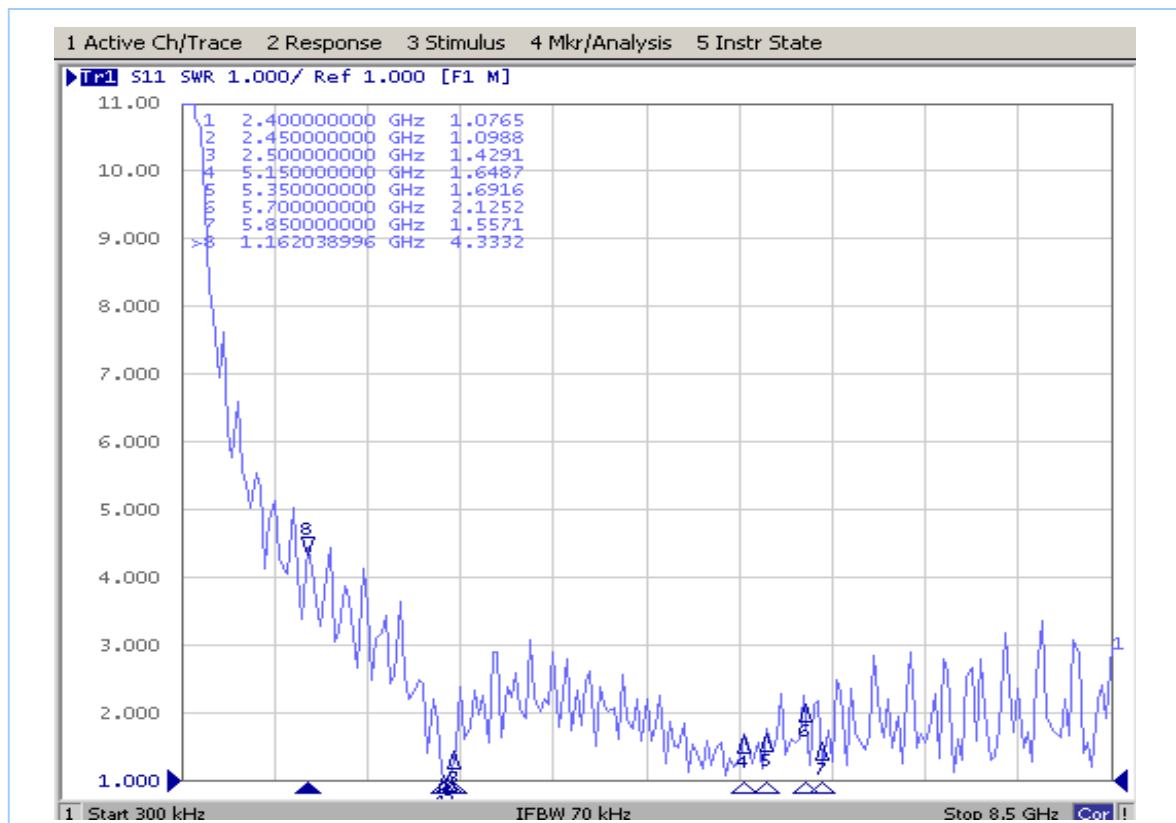
5.15~5.35GHz / VSWR



2.4~2.5GHz & 5.15~5.35GHz / Return Loss

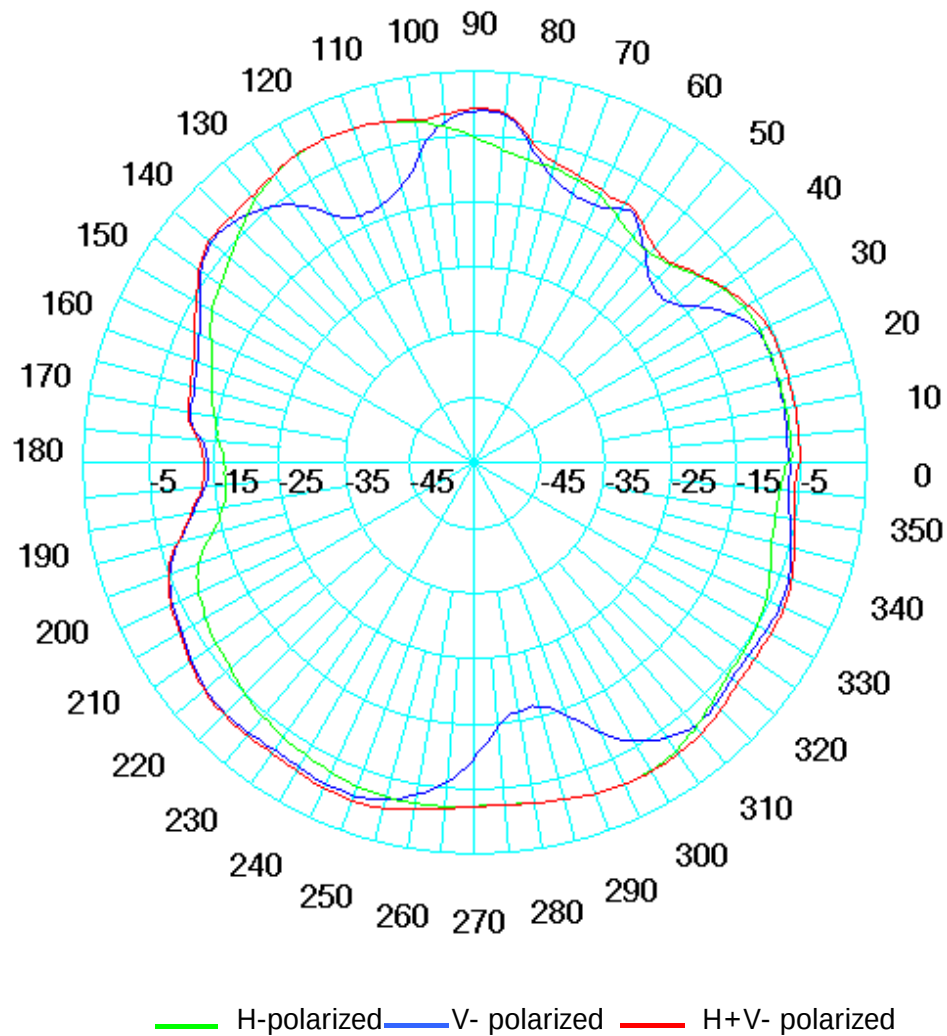


2.4~2.5GHz & 5.15~5.35GHz / VSWR



3. Gain&PATTERN-W/L PIFA ANT./In Notebook

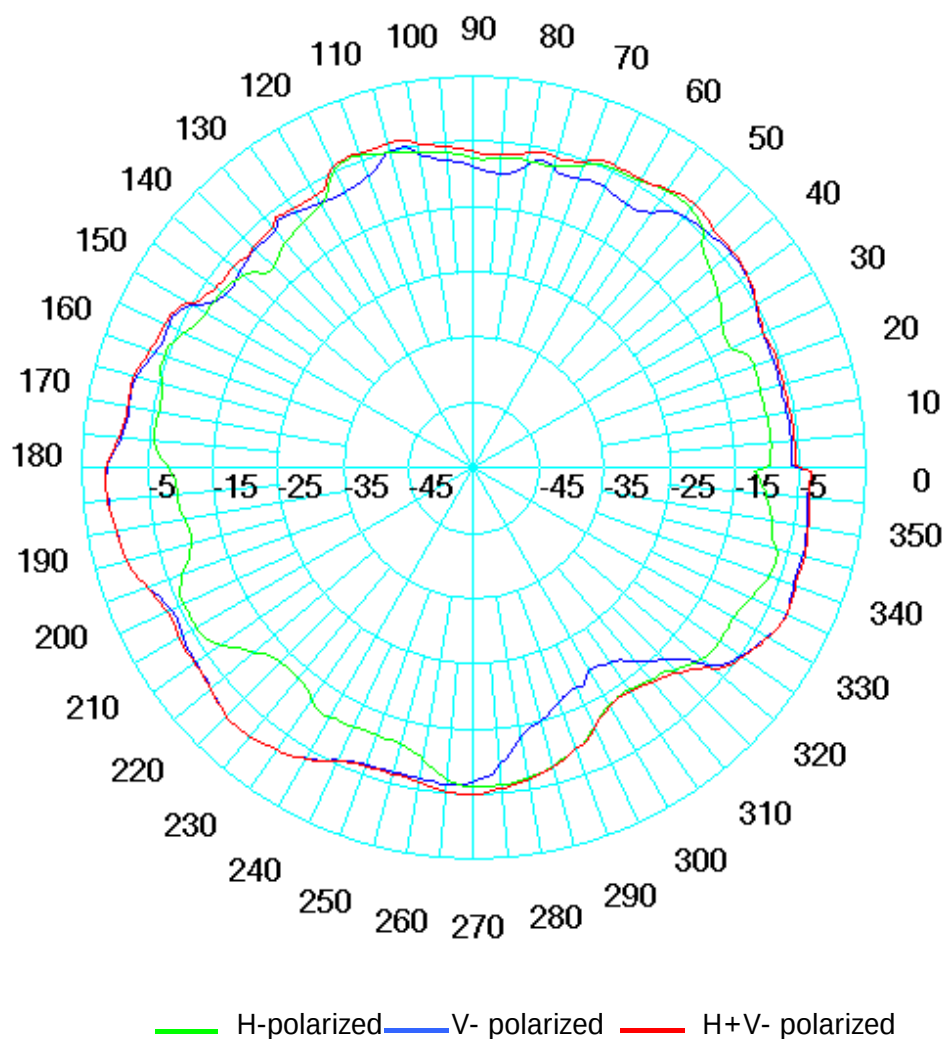
LCD Top Left /2.4~2.5GHZ



Gain data

Antenna	Gain of XY Plane(Azimuth)-Open		
	Frequency		2.45GHz
PIFA	H	Peak	-0.34
		Avg.	-6.50
	V	Peak	-0.65
		Avg.	-7.22
	H + V	Peak	0.13
		Avg.	-4.51
		% > -5dBi	59.22%

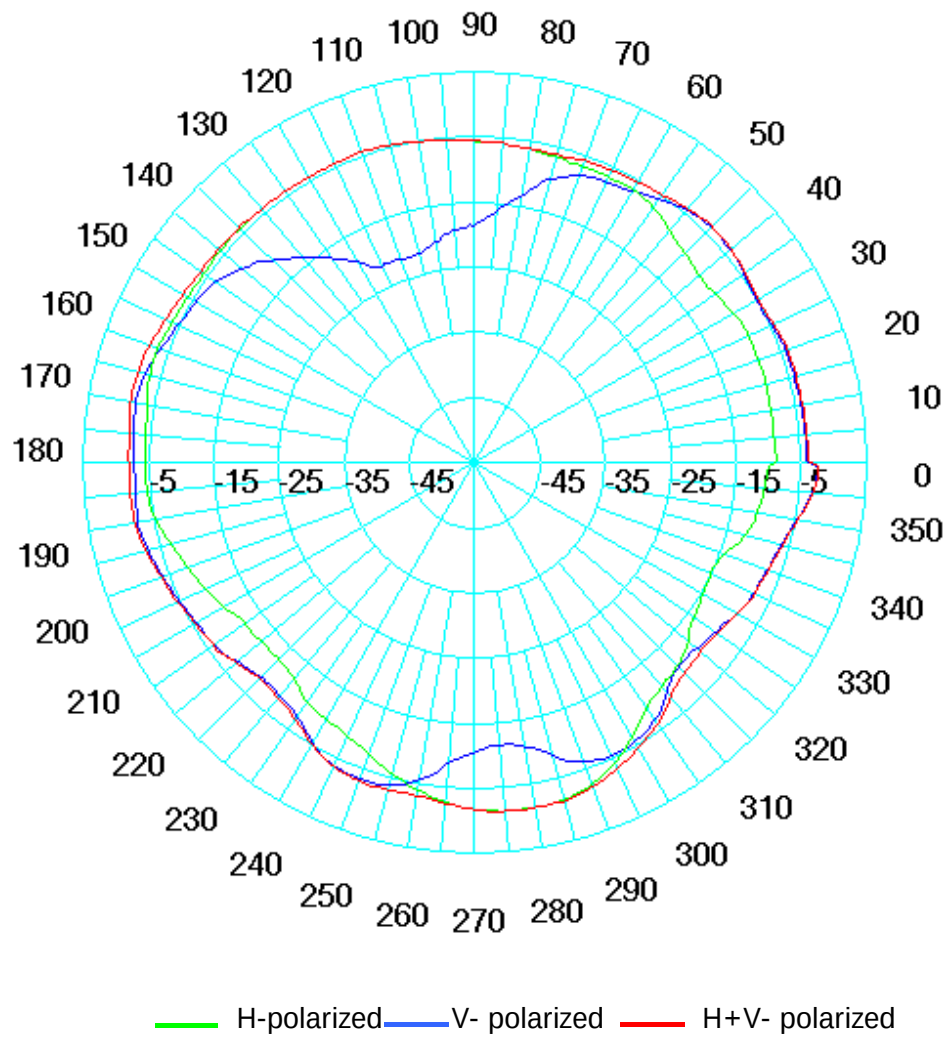
LCD Top Left / 5.15 ~ 5.35GHz



Gain data

Antenna	Gain of XY Plane(Azimuth)-Open		
	Frequency		5.25GHz
PIFA	H	Peak	-3.12
		Avg.	-8.40
	V	Peak	1.50
		Avg.	-6.28
	H + V	Peak	1.51
		Avg.	-4.83
		% > -5dBi	52.19%

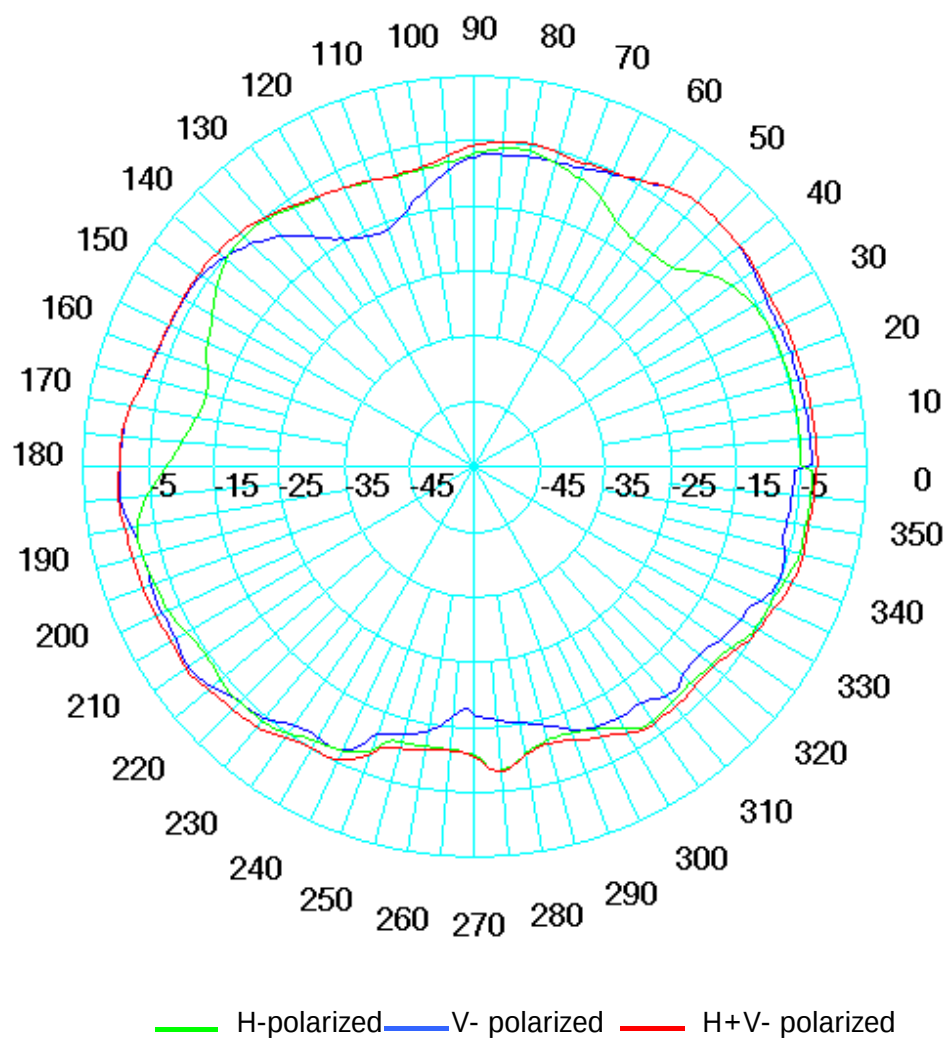
LCD Top Right / 2.4~2.5GH



Gain data

Antenna	Gain of XY Plane(Azimuth)-Open		
	Frequency		2.45GHz
PIFA	H	Peak	-1.31
		Avg.	-7.34
	V	Peak	-2.17
		Avg.	-7.84
	H + V	Peak	-1.24
		Avg.	-4.68
		% > -5dBi	66.07%

LCD Top Right/ 5.15 ~ 5.35GHZ



Gain data

Antenna	Gain of XY Plane(Azimuth)-Open		
	Frequency		5.25GHz
PIFA	H	Peak	-2.30
		Avg.	-7.41
	V	Peak	-0.54
		Avg.	-6.92
	H + V	Peak	-0.25
		Avg.	-4.87
		% > -5dBi	58.96%

4. SPECIFICATIONS:

- Electrical Properties

Frequency Range : 2.4~2.5GHz & 5.15~5.35GHz

Impedance : 50 ohm

VSWR(2.4~2.5GHZ) : 2.0

VSWR(5.15~5.85GHz) : < 2.5

Peak Gain : 3dBi

Average Gain : >-5dB