

Bondi Antenna Regulatory Infomation

Description : Triple-band Antenna(Main+Aux)
Quanta Computer Inc. P/N: DQ670025C203
DQ617005C201
Wistron NeWeb P/N: 81.CA513.001
81.CA513.002

Wistron NeWeb Corporation

No. 10-1,Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300,Taiwan, R.O.C.
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Provided by Wistron NeWeb Corp.	Reviewed by Wistron NeWeb Corp.
<i>Patrick Lee</i>	<i>Weili Cheng</i>

I. Antenna Type

Position	Main Antenna (Left-side Antenna)	Aux Antenna (Right-side Antenna)
Antenna Type	PCB IFA	TIFA
Material	PCB	Metal sheet

II. Peak Gain

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.725 GHz)		
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz
MAIN	Peak dBi	1.87	2.18	1.99	4.50	4.62	4.15	4.38	4.35	3.88
	Avg dBi	-2.02	-2.04	-1.51	-1.45	-1.27	-0.20	-0.39	-0.73	-1.28
AUX	Peak dBi	2.09	2.26	1.50	0.42	1.01	2.31	2.03	1.81	1.72
	Avg dBi	-3.62	-3.89	-3.20	-3.92	-3.81	-3.04	-3.06	-3.19	-3.12

III. Antenna Model Number

Model number: CA5-Q

IV. Manufacturing Info

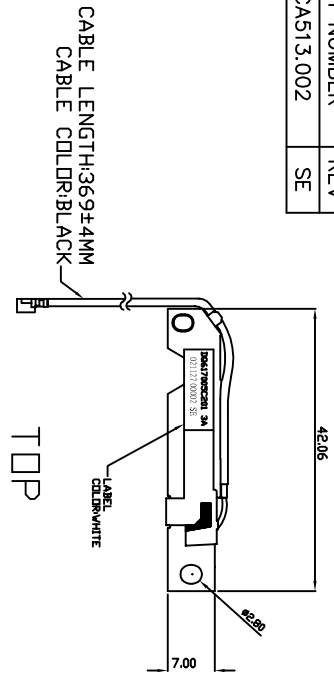
Wistron NeWeb Corporation
No. 10-1, Li-hsin Road I,
Science-base Industrial Park,
Hsinchu 300, Taiwan, R.O.C.

V. Antenna Dimensions (Mechanical drawings)

(See Next 2 Pages)

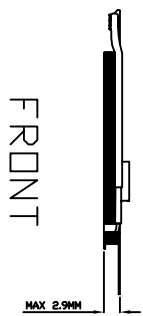
PART NUMBER BLOCK	
PART NUMBER	REV
81.CA513.002	SE

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
SE	MODIFY VERSION		11/27/02	WEILI CHENG



TOP

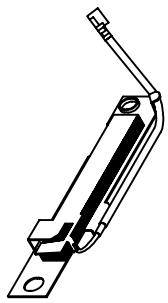
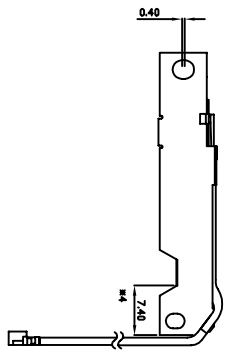
GEN1



FRONT



RIGHT



GEN2

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM AND TOLERANCES ARE:
 1. DECIMAL DIMENSIONS ±0.25
 2. PLACE DECIMALS ±0.1
 ANGULAR DIMENSIONS ±1°
 HOLES UNDER Ø5.00 ±0.05

MATERIAL: SEE NOTES
 FINISH: SEE NOTES

THIRD ANGLE PROJECTION

DRAWN	GUO CHANG	11/27/02
ENGR	PATRICK LEE	11/27/02
APVD	WEILI CHENG	11/27/02

Wistron
 Wistron NewWeb Corp.
 No. 10-1, Li-Hsin Road 1, Science-based Industrial Park,
 Hsinchu 300, Taiwan, R.O.C. Fax: 886-3-6687711
 Tel: 886-3-6687799

DWG TITLE: BOND, RIGHT ANTENNA DRAWING

SIZE	DWG NO.	NO	REV
A3			SE
SCALE	2/1	SHEET	1 OF 1

1

2

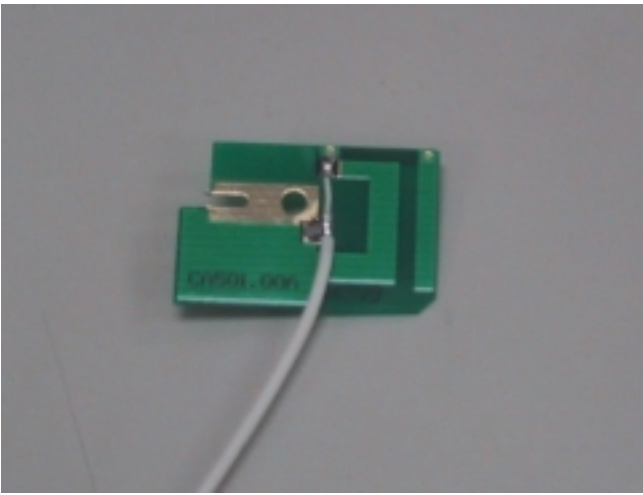

B

B

A

A

VI. Pictures of Antennas

Main Antenna	Aux Antenna
	

VII. Cable Length

Left-side antenna: 155mm Φ 1.13mm
 Right-side antenna: 369mm Φ 1.13mm
 (From the center of connector to the end of cable)

VIII. Cable Loss (including connector)

Unit: dB	2G4 band	U-NII band	HyperLAN band
155mm	0.8	1.04	1.11
369mm	1.39	2.01	2.13

XI. Antenna Material

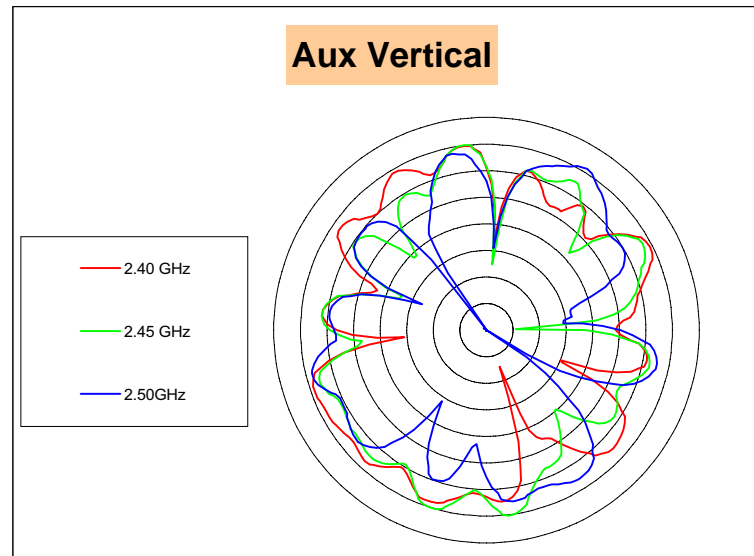
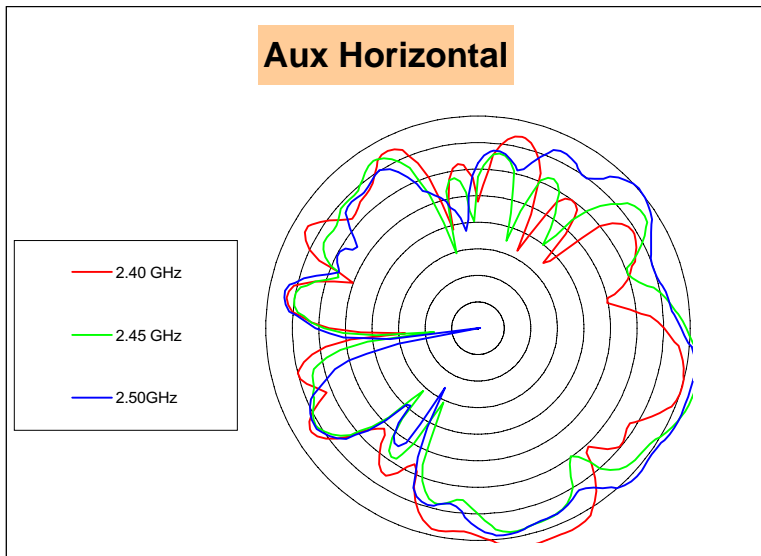
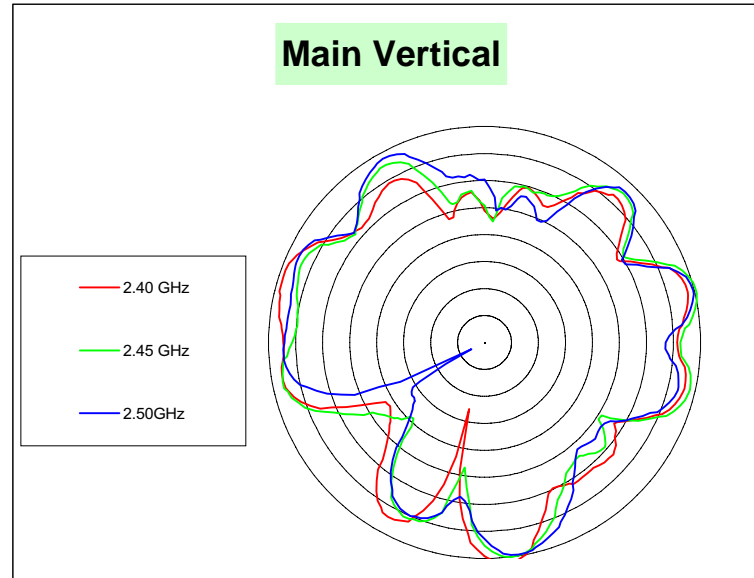
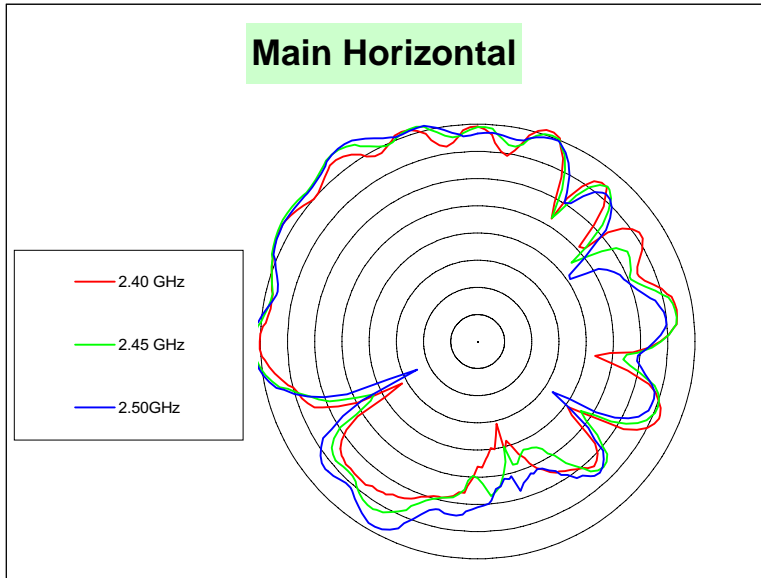
Main antenna	Aux antenna
<ol style="list-style-type: none"> 1. PCB 2. Junkosha cable and IPEX connector (Nissei cable and HRS connector) 	<ol style="list-style-type: none"> 1. Stamped metal 2. Junkosha cable and IPEX connector (Nissei cable and HRS connector) 3. Sponge 4. Tape

X. Connector Info (general description)

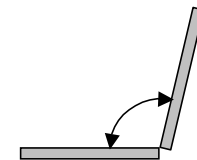
Description (Cable)	Inner Conductor: AWG#32(7/0.8), Silver plating annealed copper wire Dielectric core: D0.68mm Outer conductor: 16/4/0.05 D0.93mm, Silver plating annealed copper wire Jacket: D1.13mm		
Requirements	Characteristic impedance: 50(+2,-2)ohm Nominal capacitance: 97pF/m Conductor resistance of inner conductor at 293K(20°C): 520ohm/km MAX Insulation resistance: 1500mega-ohm.km MIN Dielectric withstand voltage: no breakdown at AC1000V for 1min.		
Ratings	Rated voltage: AC60Vrms Nominal characteristics impedance: 50ohm VSWR: 1.3MAX DC~3GHz, 1.7MAX 3~6GHz		
Electric characteristics	Contact resistance	10mA MAX(DC or 1000Hz)	Center contact 74mohm MAX. Outer contact 27mohm MAX.
	Insulation resistance	100V DC	500Mohm MIN
	Voltage proof	200V AC for 1 min. Current leakage 2mA MAX	No flashover or breakdown

Platform: Bondi
 Supplier: Wistron NeWeb coporation
 Date: 2002/11/28

2G4 ISM (2.400 GHz - 2.4835 GHz) Antenna Radiation Patterns



2G4 ISM (2.400 GHz - 2.4835 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	2.4	-3.42	1.84
	2.45	-2.77	2.12
	2.5	-2.56	1.95
Main Vert	2.4	-5.05	1.12
	2.45	-4.97	0.32
	2.5	-5.12	-0.17
Aux Horz	2.4	-4.11	2.09
	2.45	-4.39	2.25
	2.5	-3.51	1.47
Aux Vert	2.4	-8.95	-5.16
	2.45	-9.63	-4.86
	2.5	-10.00	-4.28

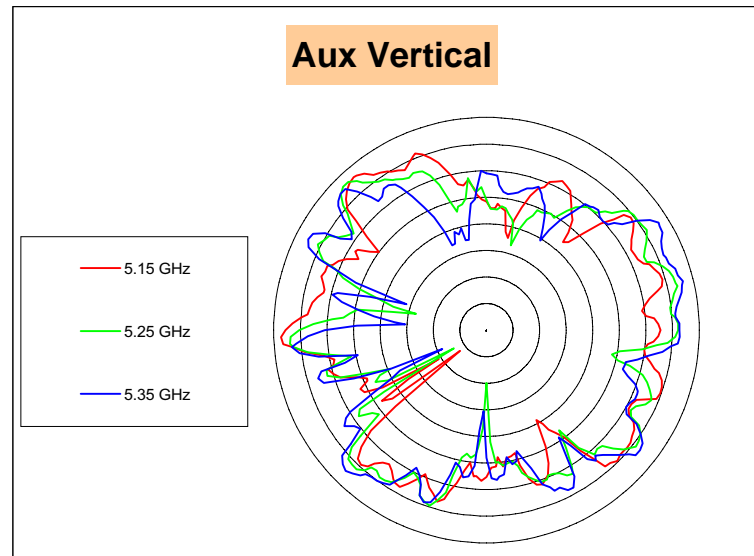
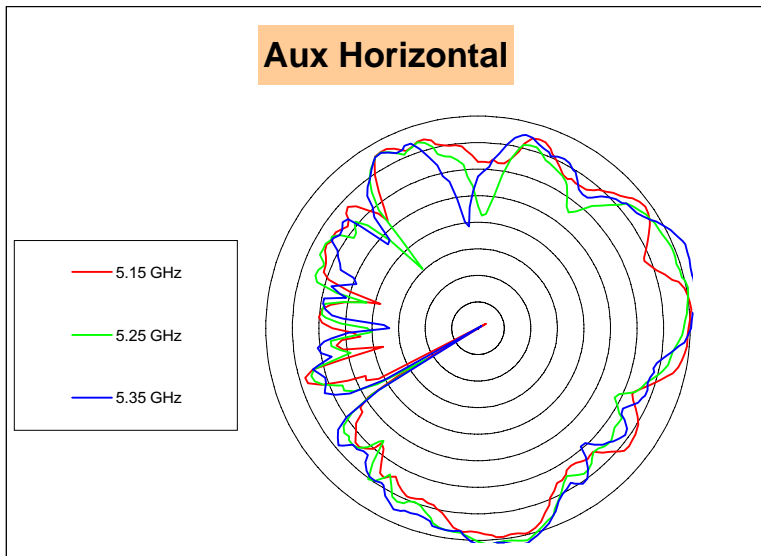
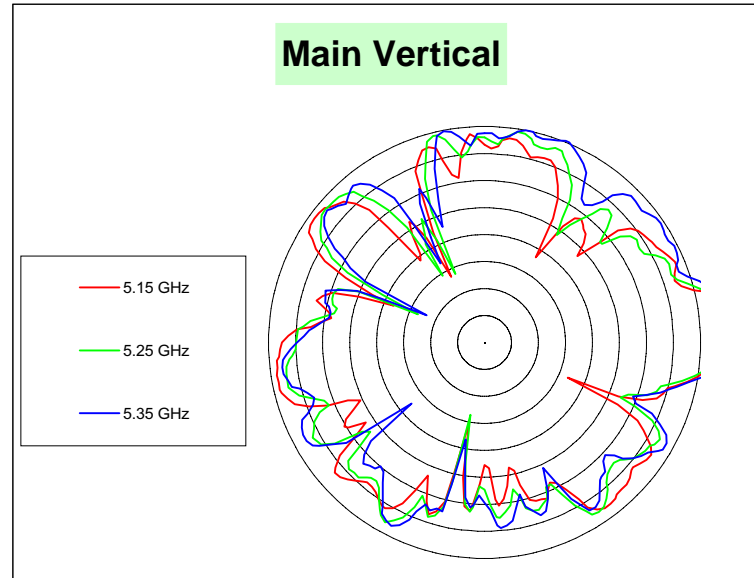
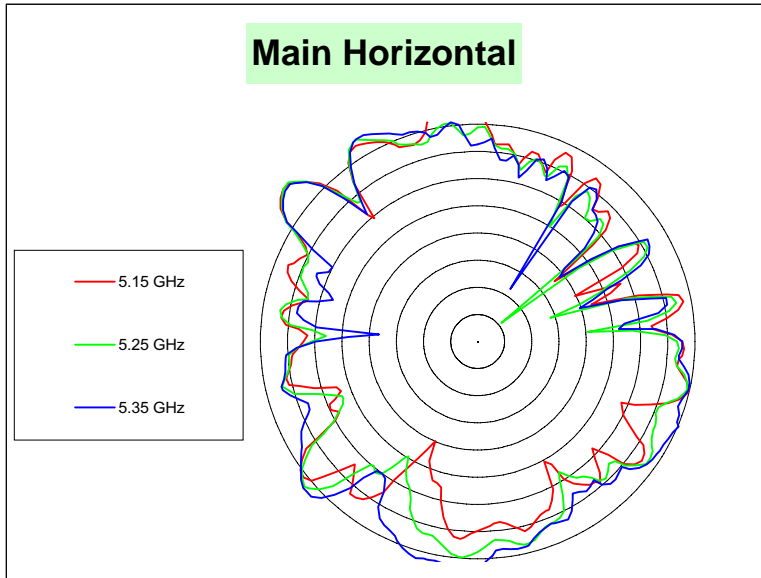


VSWR open = lid/keyboard angle 110°

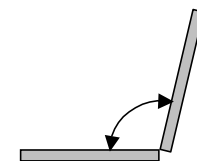
Note: The outer circle approximately represents the 0 dBi gain circle.

Platform: Platform: Bondi
 Supplier: Supplier: Wistron NeWeb coporation
 Date: Date: 2002/11/28

U-NII (5.150 GHz - 5.350 GHz) Antenna Radiation Patterns



U-NII (5.150 GHz - 5.350 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	5.15	-3.00	4.49
	5.25	-2.85	4.62
	5.35	-1.94	4.15
Main Vert	5.15	-4.18	3.51
	5.25	-4.03	3.19
	5.35	-2.94	4.61
Aux Horz	5.15	-4.74	0.40
	5.25	-4.61	1.00
	5.35	-3.75	2.16
Aux Vert	5.15	-8.05	-1.36
	5.25	-7.91	-1.86
	5.35	-7.40	-1.87



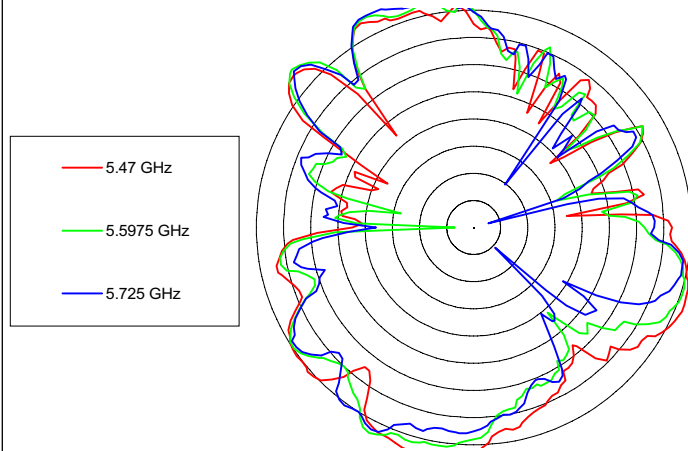
VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle.

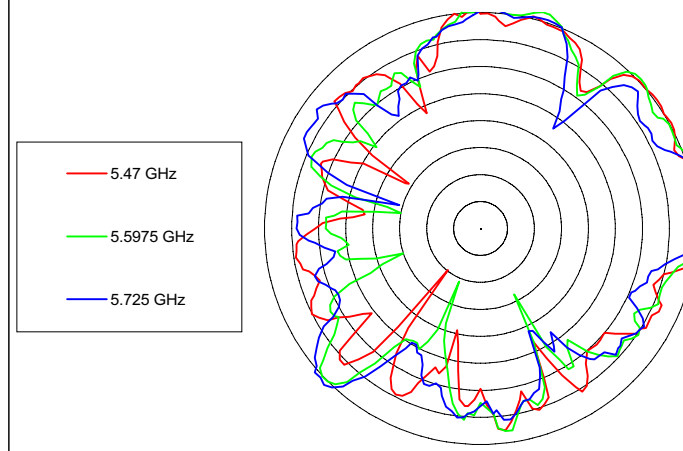
Platform: Platform: Bondi
 Supplier: Supplier: Wistron NeWeb coporation
 Date: Date: 2002/11/28

HyperLAN (5.470 GHz - 5.725 GHz) Antenna Radiation Patterns

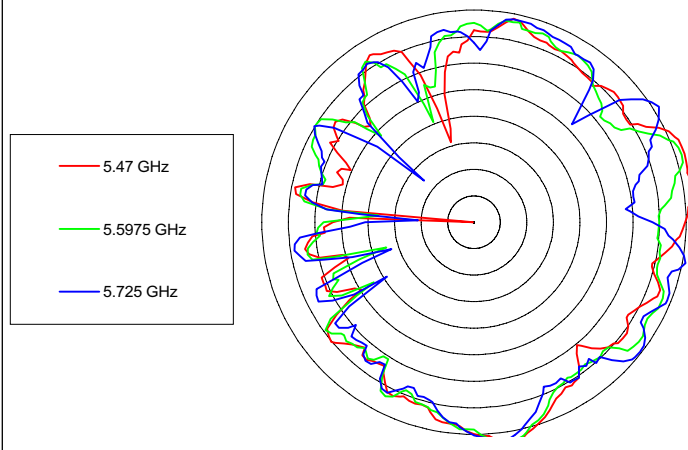
Main Horizontal



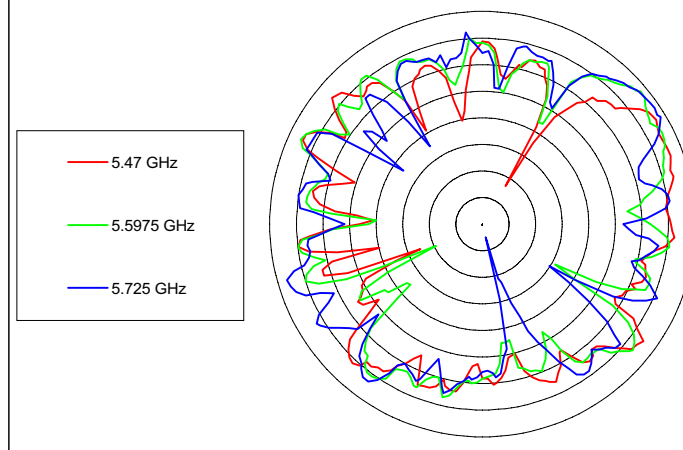
Main Vertical



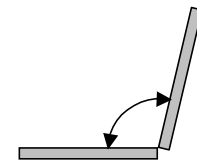
Aux Horizontal



Aux Vertical



HyperLAN (5.470 GHz - 5.725 GHz)			
CONFIG	FREQ GHz	Avg dBi	Pk dBi
Main Horz	5.47	-2.09	4.35
	5.5975	-2.61	4.35
Main Vert	5.47	-3.36	4.32
	5.5975	-3.57	3.05
Aux Horz	5.47	-3.72	2.03
	5.5975	-4.08	1.81
Aux Vert	5.47	-7.30	-1.92
	5.725	-6.88	-0.91



VSWR open = lid/keyboard angle 110°

Note: The outer circle approximately represents the 0 dBi gain circle.