

Antenna Regulatory Information

• Product type	• WLAN antenna
• Model number	• Hepburn
• Revision	• Rev. 1
• Manufacturer Part No. : Main / Aux / MIMO	• APP8P-700045/APP8P-700046
• Dell Part No. : Main / Aux / MIMO	•



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Template Revision 062007

1. Specifications

Antenna Specifications

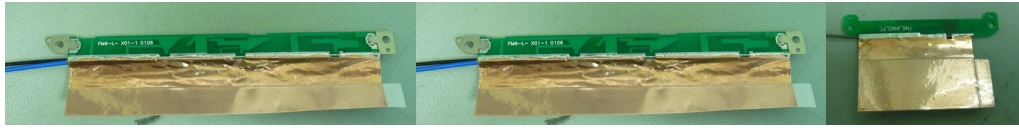
Antenna Type (Material, Technology)	IFA
Antenna Model Number	Hepburn
Operating Frequency Range(s)	2.412GHz ~ 2.462GHz and 5.15GHz ~ 5.875GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	Main 0.3 / Aux 1.5 / MIMO -1.45
Peak Gain (802.11a / 5GHz Band) (dBi)	Main -0.8 / Aux -0.1 / MIMO 0.4
Radio Connector Type	IPEX 20278-111R-13
Mid-Line Connector Type (If Applicable)	N/A

Remark: Peak Gains include all system losses (connector, cable, etc)

Cable Specifications

Cable Parameters	Main			Aux			MIMO		
	LCD Side	Base Side	Total	LCD Side	Base Side	Total	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	747	N/A	N/A	717	N/A	N/A	705.5
Loss (Including Connectors) (dB, 2.4GHz / 5GHz)			2.1 / 3.1			2.0 / 3.0			2.0 / 2.9
Description (Color, Diameter, Manufacturer)	Color: White OD: 1.13 mm (low loss) Vendor: Kurabe/GBE/Sumitomo			Color: Black OD: 1.13 mm (low loss) Vendor: Kurabe/GBE/Sumitomo			Color: Gray OD: 1.13 mm (low loss) Vendor: Kurabe/GBE/Sumitomo		

2. Antenna Assembly

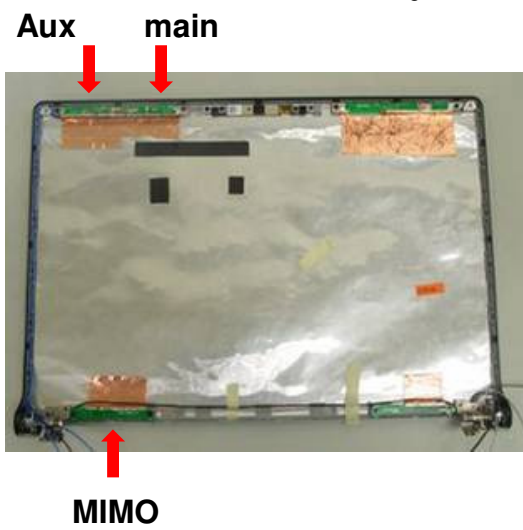


Main Antenna

Aux Antenna

MIMO Antenna

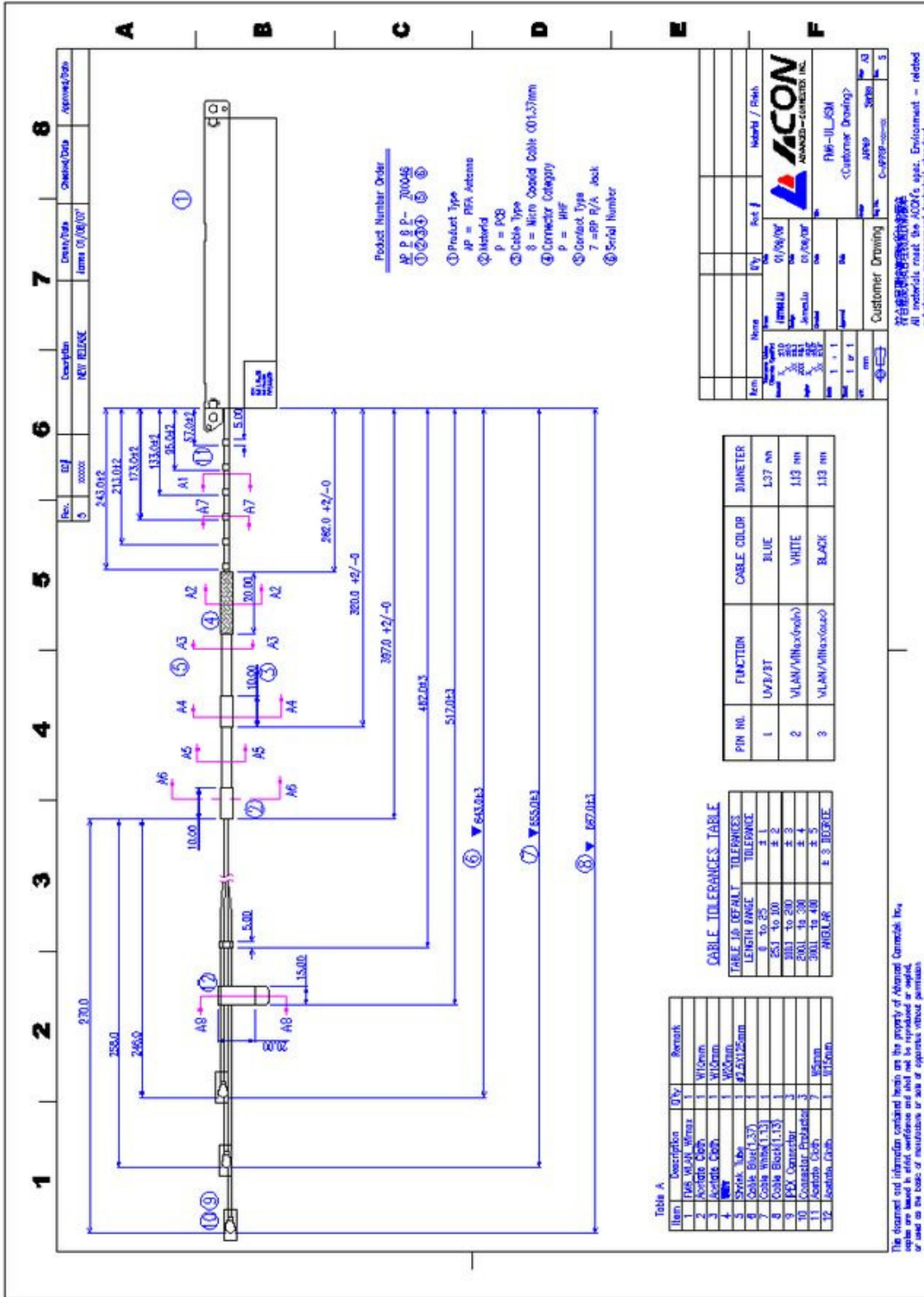
3. Antenna Assembly Installed in The Notebook



Aux main

MIMO

4. Mechanical Drawing of Antennas

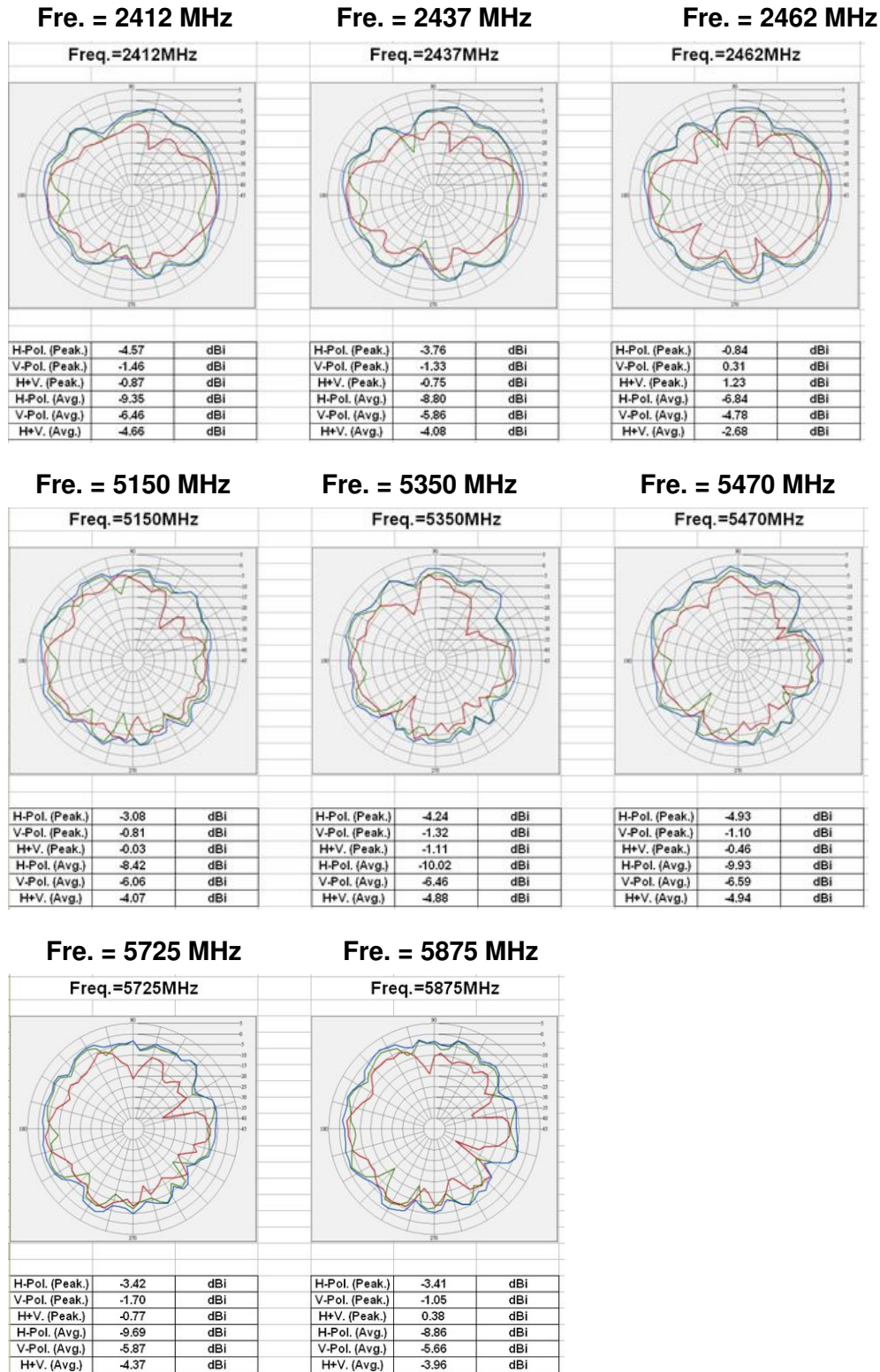


5. Gain Patterns

The Most Appropriate Antenna for Your Best Design!

- Main Antenna

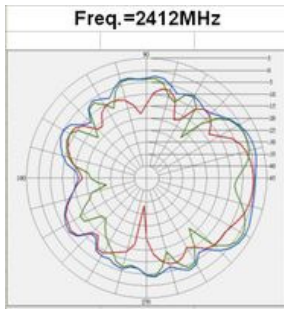
— H-Pol — V-Pol — H+V



- Aux Antenna

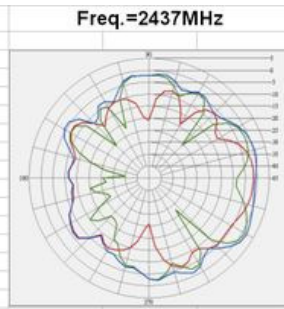


Fre. = 2412 MHz



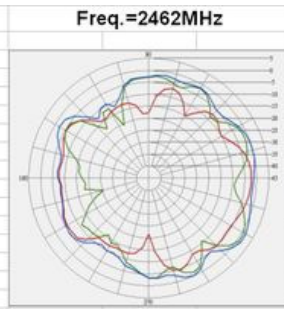
H-Pol. (Peak.)	-0.43	dBi
V-Pol. (Peak.)	1.54	dBi
H+V. (Peak.)	2.50	dBi
H-Pol. (Avg.)	-7.12	dBi
V-Pol. (Avg.)	-5.65	dBi
H+V. (Avg.)	-3.31	dBi

Fre. = 2437 MHz



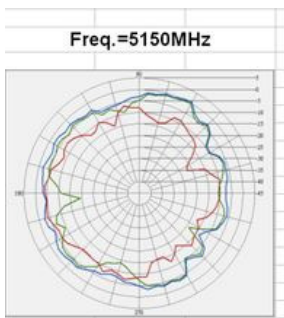
H-Pol. (Peak.)	-1.53	dBi
V-Pol. (Peak.)	0.93	dBi
H+V. (Peak.)	1.84	dBi
H-Pol. (Avg.)	-7.61	dBi
V-Pol. (Avg.)	-5.79	dBi
H+V. (Avg.)	-3.60	dBi

Fre. = 2462 MHz



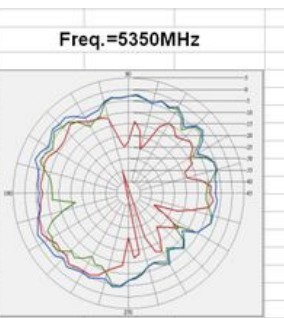
H-Pol. (Peak.)	-2.33	dBi
V-Pol. (Peak.)	0.79	dBi
H+V. (Peak.)	1.75	dBi
H-Pol. (Avg.)	-7.20	dBi
V-Pol. (Avg.)	-5.38	dBi
H+V. (Avg.)	-3.18	dBi

Fre. = 5150 MHz



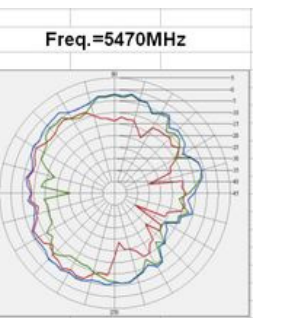
H-Pol. (Peak.)	-4.01	dBi
V-Pol. (Peak.)	-0.11	dBi
H+V. (Peak.)	0.43	dBi
H-Pol. (Avg.)	-9.14	dBi
V-Pol. (Avg.)	-5.71	dBi
H+V. (Avg.)	-4.09	dBi

Fre. = 5350 MHz



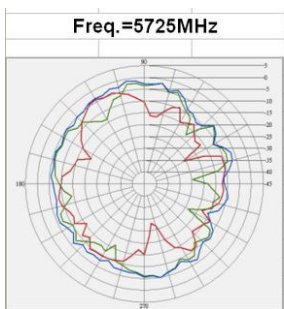
H-Pol. (Peak.)	-3.52	dBi
V-Pol. (Peak.)	-2.48	dBi
H+V. (Peak.)	-1.64	dBi
H-Pol. (Avg.)	-9.54	dBi
V-Pol. (Avg.)	-7.00	dBi
H+V. (Avg.)	-5.07	dBi

Fre. = 5470 MHz



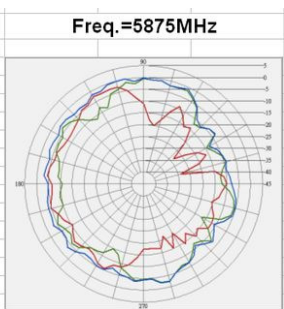
H-Pol. (Peak.)	-5.30	dBi
V-Pol. (Peak.)	-1.83	dBi
H+V. (Peak.)	-1.49	dBi
H-Pol. (Avg.)	-10.15	dBi
V-Pol. (Avg.)	-8.08	dBi
H+V. (Avg.)	-5.98	dBi

Fre. = 5725 MHz



H-Pol. (Peak.)	-3.85	dBi
V-Pol. (Peak.)	-1.96	dBi
H+V. (Peak.)	-0.98	dBi
H-Pol. (Avg.)	-10.76	dBi
V-Pol. (Avg.)	-8.03	dBi
H+V. (Avg.)	-6.18	dBi

Fre. = 5875 MHz



H-Pol. (Peak.)	-2.59	dBi
V-Pol. (Peak.)	-0.57	dBi
H+V. (Peak.)	0.07	dBi
H-Pol. (Avg.)	-8.62	dBi
V-Pol. (Avg.)	-6.13	dBi
H+V. (Avg.)	-4.19	dBi

- MIMO Antenna

— H-Pol — V-Pol — H+V

