

Antenna Regulatory Information

• Product type	• WLAN antenna
• Wistron Part No.	• 60.4Q612.001
• Model number	• DELL Siberia (WT0581-11-000-R)
• Revision	• X01
• Manufacturer Part No. : Main / Aux / MIMO	• WT0581-11-001-R • WT0581-11-002-R • WT0581-11-003-R
• Dell Part No. : Main / Aux / MIMO	•

Amphenol

Shanghai Amphenol Airwave Communication Electronics Co., LTD
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1. Specifications

Antenna Specifications

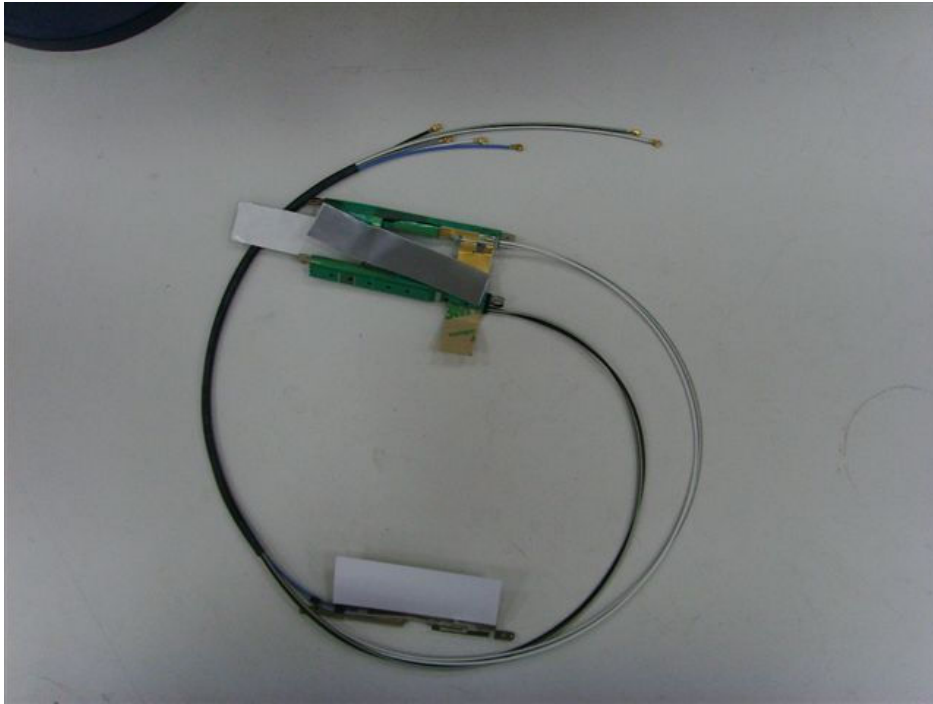
	Flex, Inverted-F Antenna (IFA)
Antenna Model Number	DELL Siberia
Operating Frequency Range(s)	2.4GHz ~ 2.5GHz and 4.9GHz ~ 5.9GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	1.89dBi
Peak Gain (802.11a / 5GHz Band) (dBi)	5.26dBi
Radio Connector Type	IPEX 20308-111R-32/ 20363-111R-37 or equivalent connector
Mid-Line Connector Type (If Applicable)	N/A

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

Cable Specifications

Cable Parameters	Main			Bottom			MIMO		
	LCD Side	Base Side	Total	LCD Side	Base Side	Total	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	1.6/ 2.2	N/A	N/A	292	N/A	N/A	287
Loss (Including Connectors) (dB, 2.4GHz / 5GHz)			1.5/2.4			0.5/ 0.6			0.4/ 0.6
Description (Color, Diameter, Manufacturer)	Color: White OD: 1.32~1.37 mm Vendor: GBE			Color: Black OD: 1.32~1.37 mm Vendor: GBE			Color: Gray OD: 1.32~1.37 mm Vendor: GBE		

2. Antenna Assembly



3. Antenna Assembly Installed in The Notebook

Main Antenna

Aux Antenna (UWB)



[illegible]

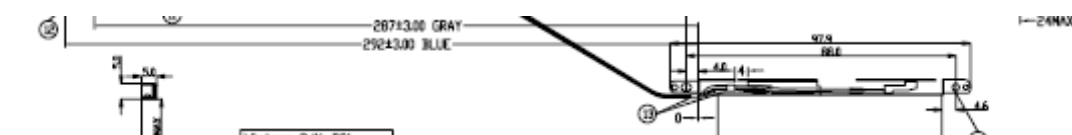
75743.00 WHITE/GRAY
67543.00 WHITE

Label

40542.00

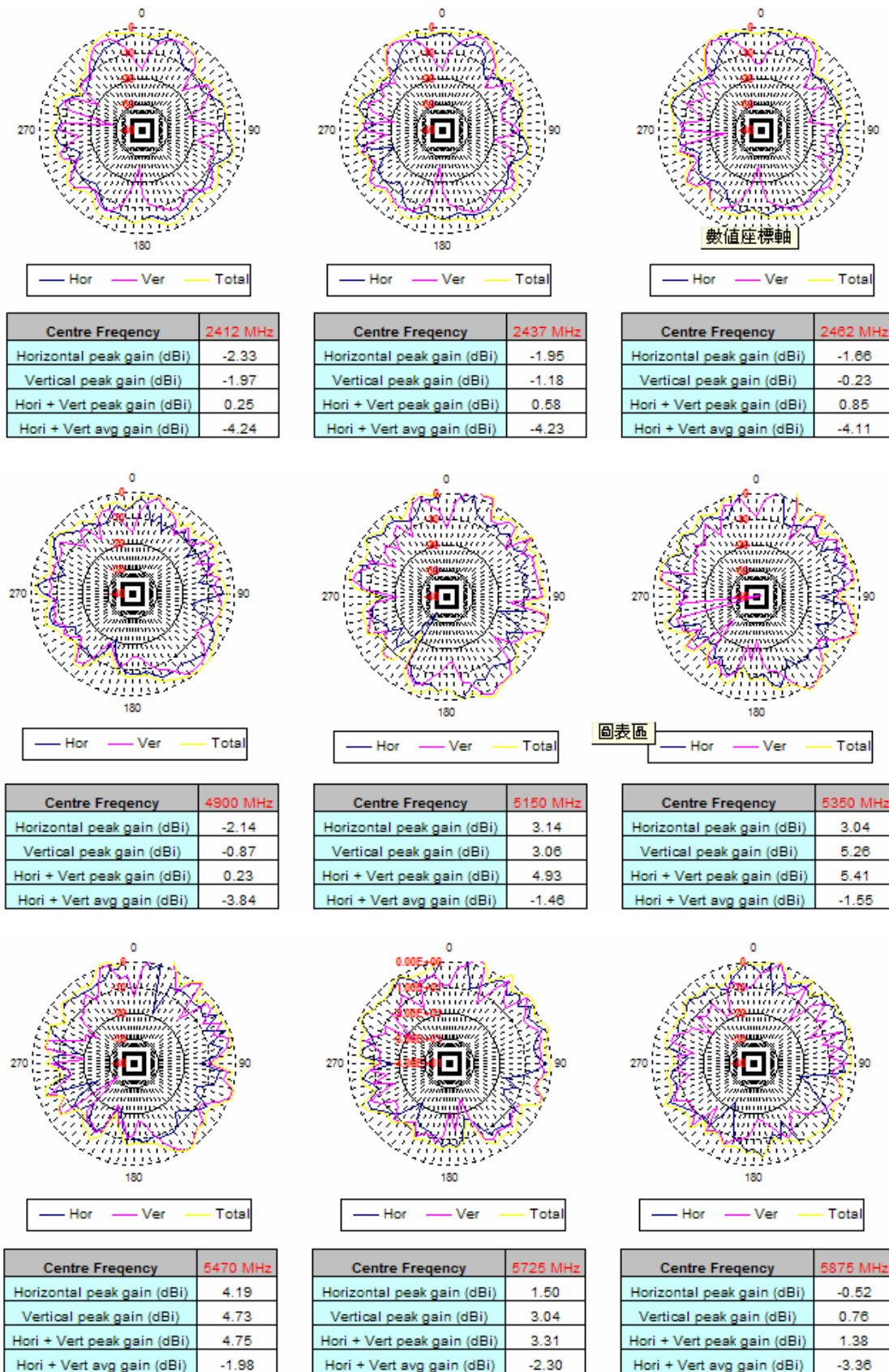
96.2
90.0

-MIMO antenna is at left side / AUX antenna is at right side

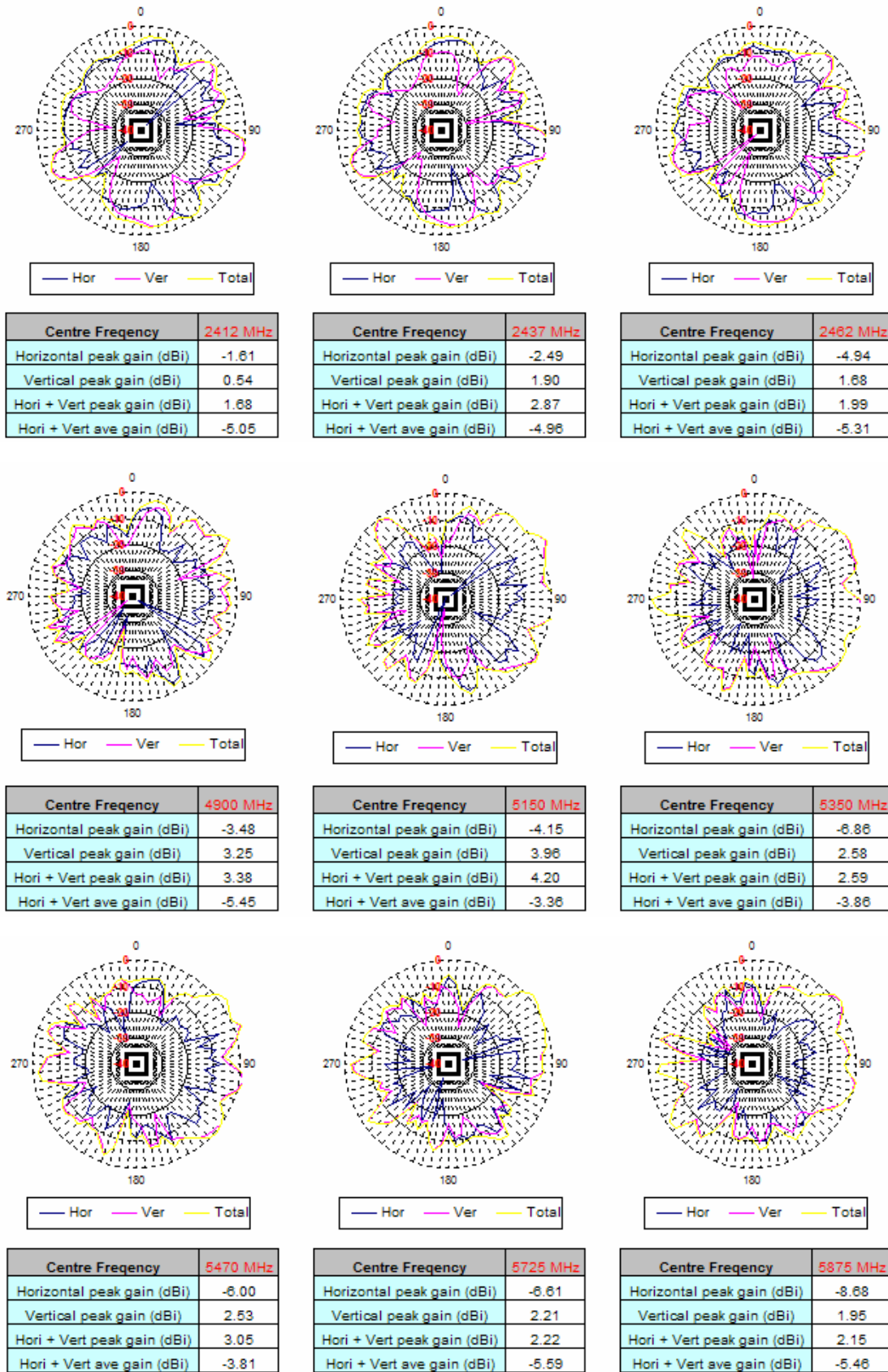


5. Gain Patterns

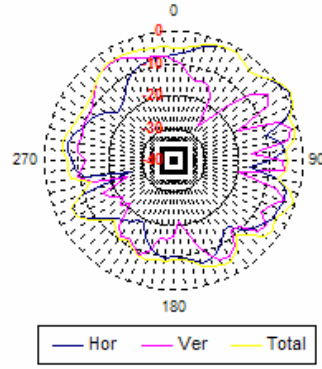
-Main Antenna



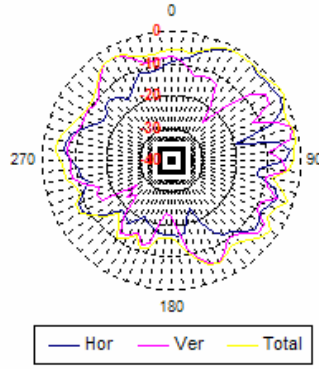
-BOTTOM-AUX Antenna



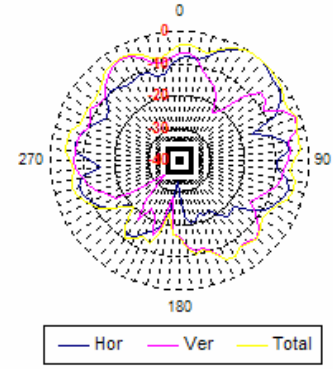
-BOTTOM-MIMO Antenna



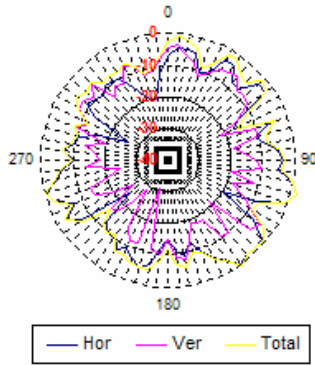
Centre Frequency	2412 MHz
Horizontal peak gain (dBi)	1.49
Vertical peak gain (dBi)	-1.82
Hori + Vert peak gain (dBi)	2.22
Hori + Vert ave gain (dBi)	-4.29



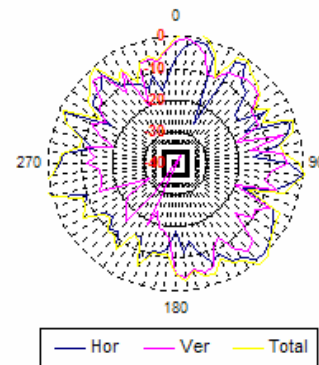
Centre Frequency	2437 MHz
Horizontal peak gain (dBi)	-0.92
Vertical peak gain (dBi)	-0.98
Hori + Vert peak gain (dBi)	0.29
Hori + Vert ave gain (dBi)	-4.83



Centre Frequency	2462 MHz
Horizontal peak gain (dBi)	-0.15
Vertical peak gain (dBi)	-1.38
Hori + Vert peak gain (dBi)	-0.10
Hori + Vert ave gain (dBi)	-5.10

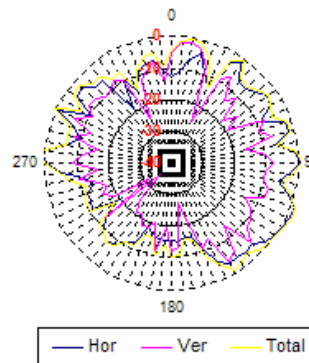


Centre Frequency	4900 MHz
Horizontal peak gain (dBi)	1.97
Vertical peak gain (dBi)	-3.69
Hori + Vert peak gain (dBi)	2.15
Hori + Vert ave gain (dBi)	-4.58

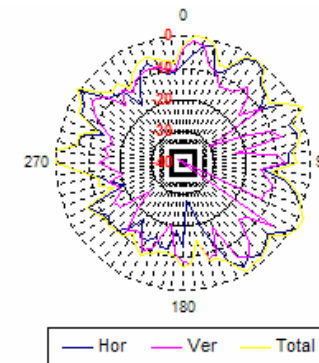


Centre Frequency	5150 MHz
Horizontal peak gain (dBi)	2.88
Vertical peak gain (dBi)	-0.65
Hori + Vert peak gain (dBi)	2.94
Hori + Vert ave gain (dBi)	-3.45

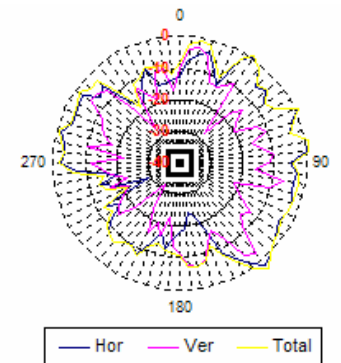
Centre Frequency	5350 MHz
Horizontal peak gain (dBi)	2.09
Vertical peak gain (dBi)	-2.17
Hori + Vert peak gain (dBi)	2.56
Hori + Vert ave gain (dBi)	-4.02



Centre Frequency	5470 MHz
Horizontal peak gain (dBi)	1.30
Vertical peak gain (dBi)	-1.45
Hori + Vert peak gain (dBi)	1.72
Hori + Vert ave gain (dBi)	-3.68



Centre Frequency	5725 MHz
Horizontal peak gain (dBi)	1.80
Vertical peak gain (dBi)	-1.71
Hori + Vert peak gain (dBi)	1.96
Hori + Vert ave gain (dBi)	-3.85



Centre Frequency	5875 MHz
Horizontal peak gain (dBi)	2.15
Vertical peak gain (dBi)	-2.63
Hori + Vert peak gain (dBi)	3.39
Hori + Vert ave gain (dBi)	-3.85