

Antenna Regulatory Information

• Product type	• UWB antenna
• Model number	• Gilligan
• Revision	• Rev.1
• Manufacturer Part No. :	• AMP8P-700012
• Dell Part No. :	•

ADVANCED-CONNECTEK INC.

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Template Revision 052107

1. Specifications

Antenna Specifications

Antenna Type (Material, Technology)	PIFA
Antenna Model Number	Gilligan
Operating Frequency Range(s)	3.168~4.752 GHz
Peak Gain (dBi)	BG1: UWB 1.8
	BG3: N/A
Radio Connector Type	Hirose U.FL-LP-88 or 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	UWB antenna		
	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	118
Loss (Including Connectors) (dB, 4GHz)			0.6
Description (Color, Diameter, Manufacturer)	Color: Blue OD: 1.32~1.37 mm Kurabe/Hitachi/Sumitomo		

2. Antenna Assembly



UWB Antenna

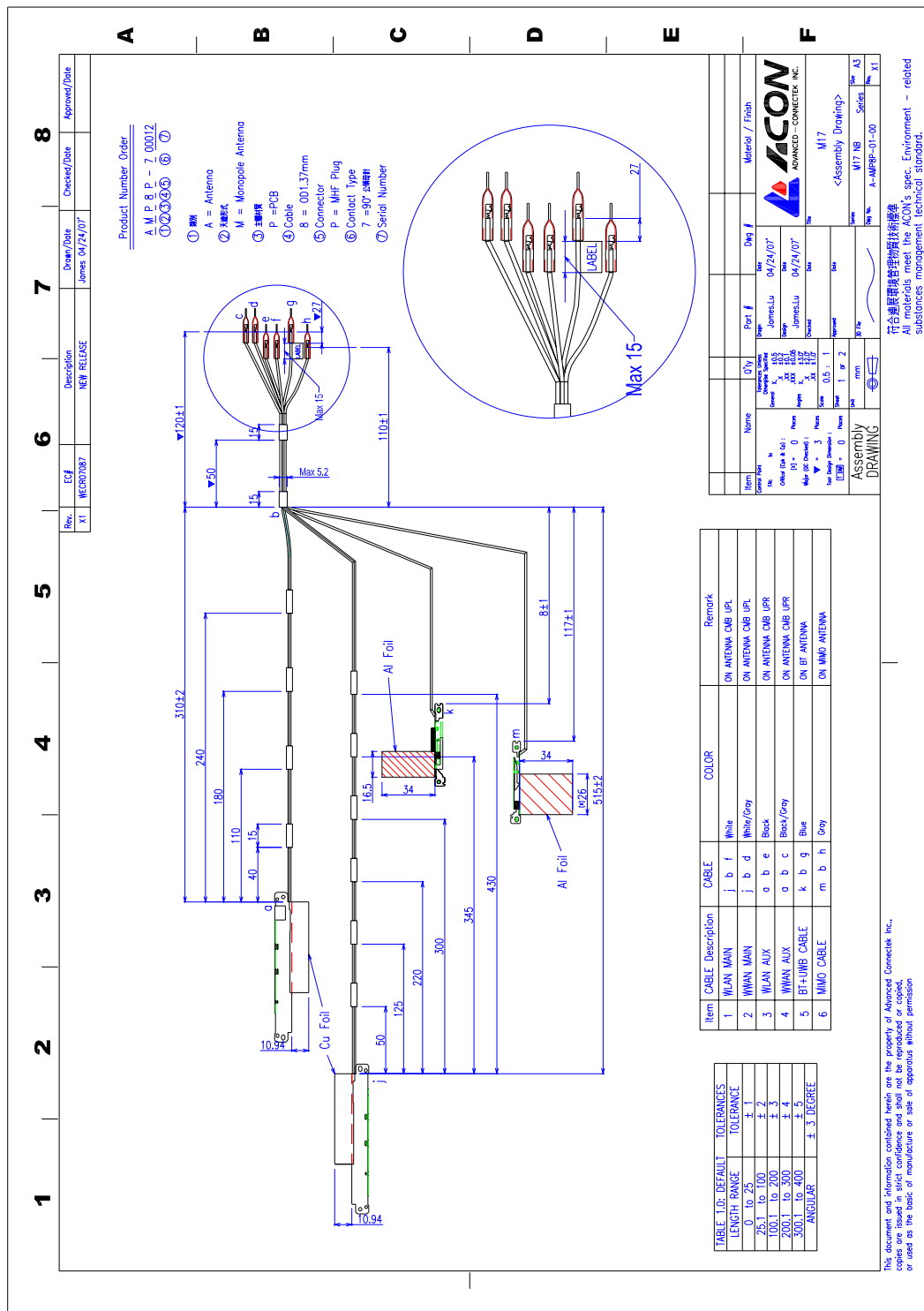
3. Antenna Assembly Installed in The Notebook

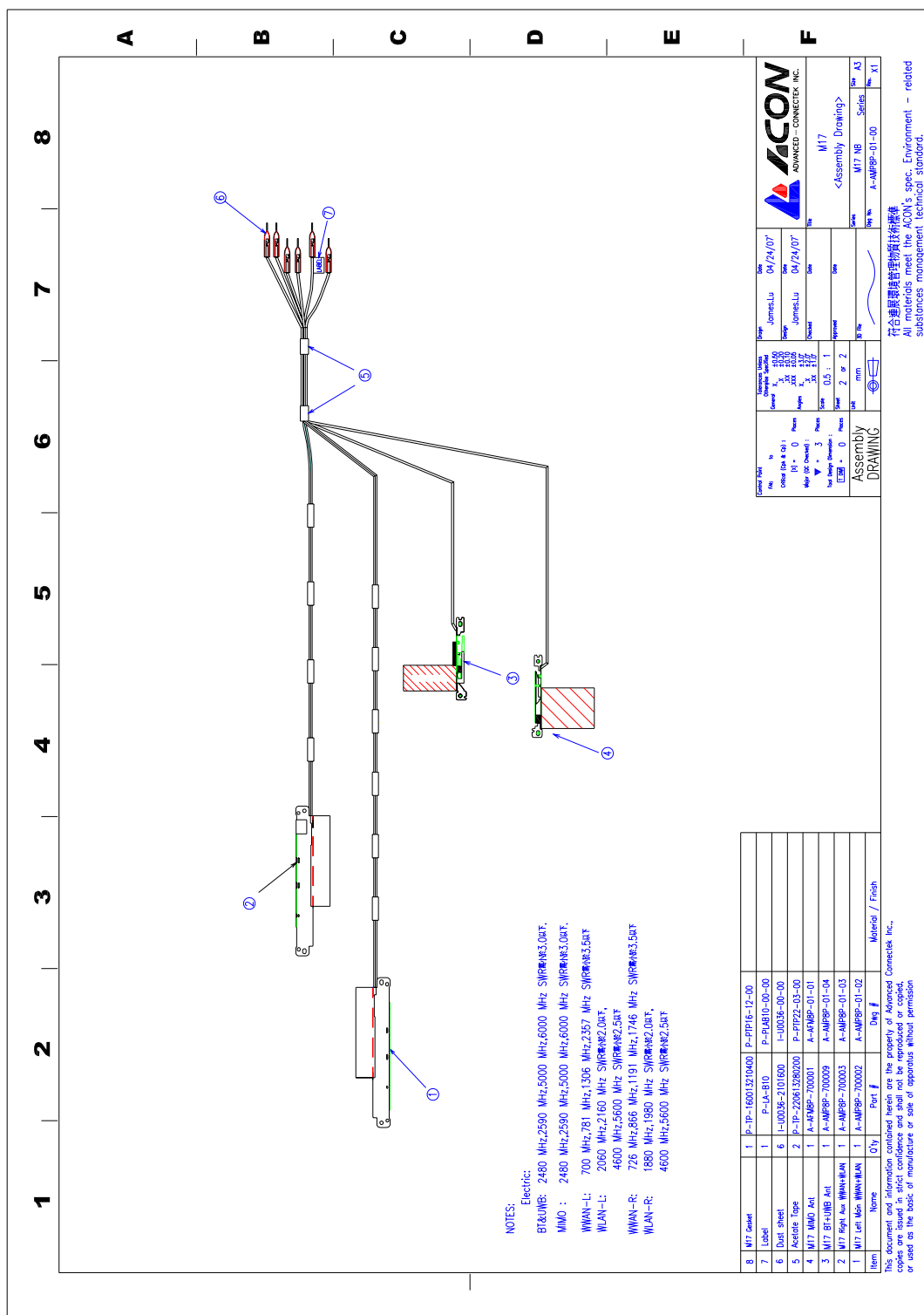


UWB Antenna



4. Mechanical Drawing of Antennas

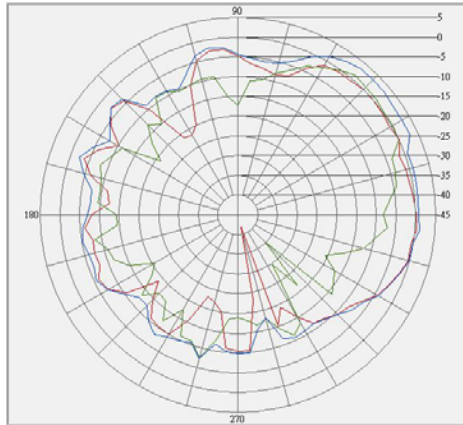




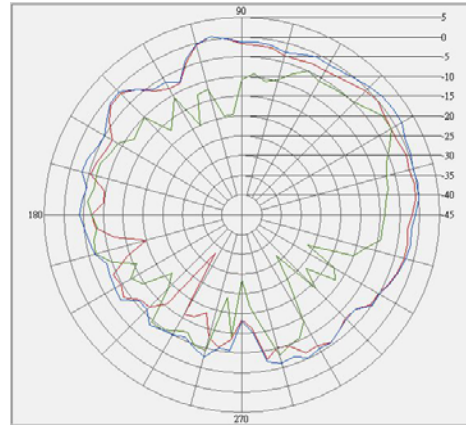
5. Gain Patterns

UWB Antenna — H-pol. — V-pol. — H+V

Fre. = 3168 MHz

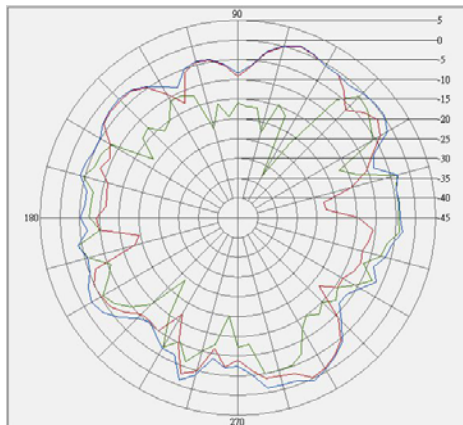


Fre. = 3300 MHz

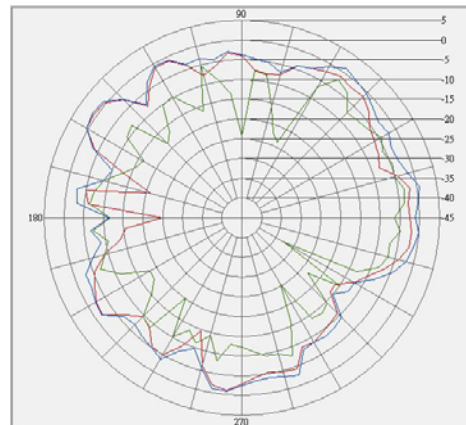


H-Pol. (Peak.)	0.4	dBi	H-Pol. (Peak.)	0.7	dBi
V-Pol. (Peak.)	1.2	dBi	V-Pol. (Peak.)	-1.4	dBi
H+V. (Peak.)	3.8	dBi	H+V. (Peak.)	2.7	dBi
H-Pol. (Avg.)	-4.8	dBi	H-Pol. (Avg.)	-4.4	dBi
V-Pol. (Avg.)	-7.1	dBi	V-Pol. (Avg.)	-8.8	dBi
H+V. (Avg.)	-2.8	dBi	H+V. (Avg.)	-3.1	dBi

Fre. = 3432 MHz



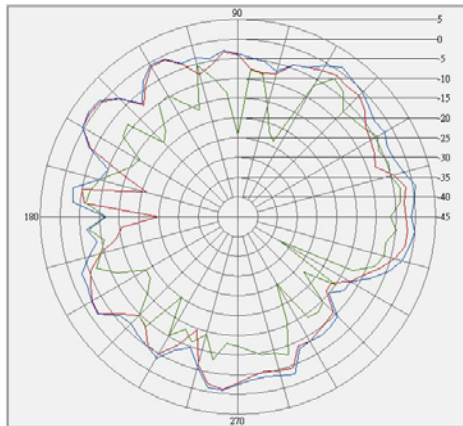
Fre. = 3564 MHz



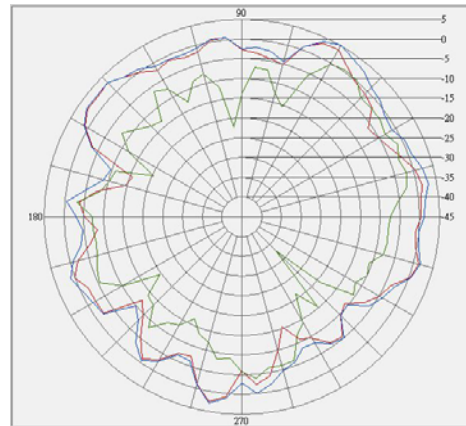
H-Pol. (Peak.)	0.5	dBi	H-Pol. (Peak.)	1.1	dBi
V-Pol. (Peak.)	-1.4	dBi	V-Pol. (Peak.)	-1.7	dBi
H+V. (Peak.)	2.6	dBi	H+V. (Peak.)	2.9	dBi
H-Pol. (Avg.)	-5.8	dBi	H-Pol. (Avg.)	-5.4	dBi
V-Pol. (Avg.)	-7.5	dBi	V-Pol. (Avg.)	-8.2	dBi
H+V. (Avg.)	-3.5	dBi	H+V. (Avg.)	-3.6	dBi

— H-pol. — V-pol. — H+V

Fre. = 3696 MHz

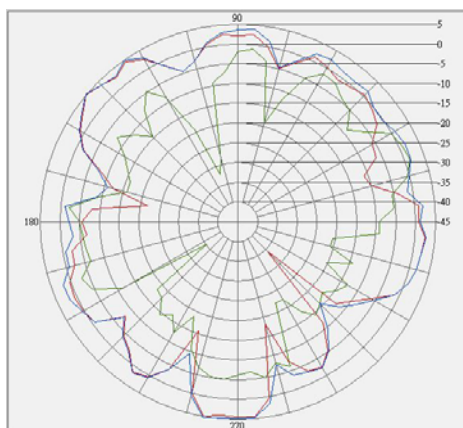


Fre. = 3828 MHz

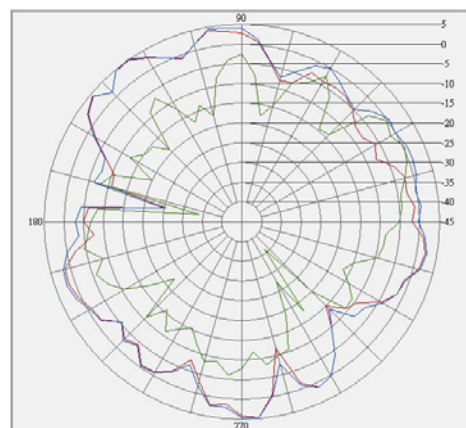


H-Pol. (Peak.)	0.6	dB	H-Pol.(Peak.)	1.7	dB
V-Pol. (Peak.)	-2.3	dB	V-Pol.(Peak.)	0.5	dB
H+V. (Peak.)	2.3	dB	H+V. (Peak.)	4.1	dB
H-Pol. (Avg.)	-4.5	dB	H-Pol. (Avg.)	-1.6	dB
V-Pol. (Avg.)	-8.8	dB	V-Pol. (Avg.)	-6.7	dB
H+V. (Avg.)	-3.1	dB	H+V. (Avg.)	-1.1	dB

Fre. = 3960 MHz

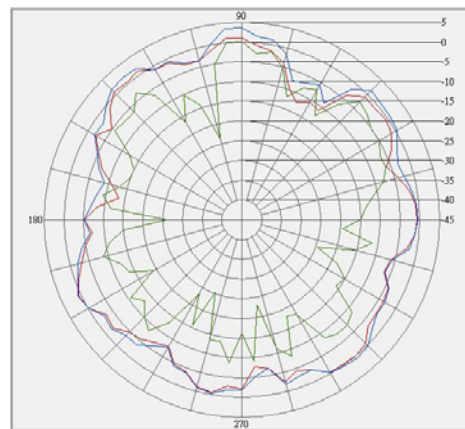
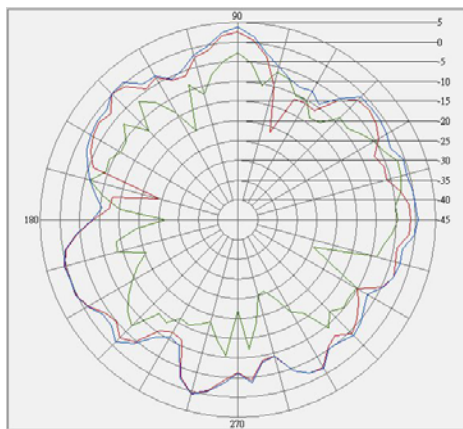


Fre. = 4029 MHz



H-Pol. (Peak.)	1.7	dB	H-Pol. (Peak.)	1.8	dB
V-Pol. (Peak.)	1.4	dB	V-Pol. (Peak.)	0.2	dB
H+V. (Peak.)	4.5	dB	H+V. (Peak.)	4.0	dB
H-Pol. (Avg.)	-2.2	dB	H-Pol. (Avg.)	-2.6	dB
V-Pol. (Avg.)	-6.4	dB	V-Pol. (Avg.)	-7.5	dB
H+V. (Avg.)	-0.8	dB	H+V. (Avg.)	-1.3	dB

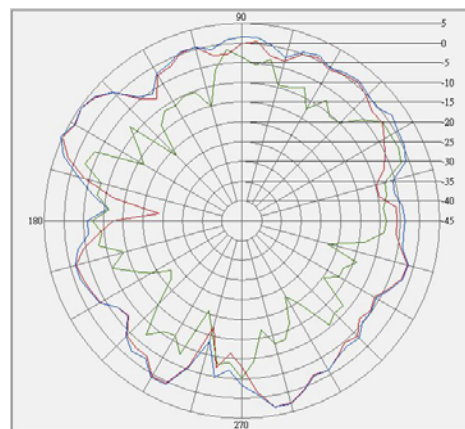
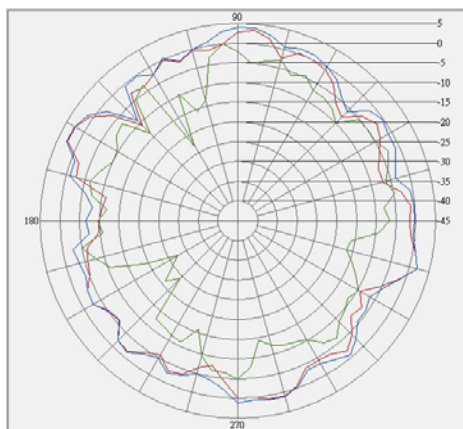
— H-pol. — V-pol. — H+V
Fre. = 4224 MHz **Fre. = 4356 MHz**



H-Pol. (Peak.)	1	dBi	H-Pol. (Peak.)	1.6	dBi
V-Pol. (Peak.)	0.2	dBi	V-Pol. (Peak.)	-1.9	dBi
H+V. (Peak.)	3.6	dBi	H+V. (Peak.)	3.2	dBi
H-Pol. (Avg.)	-2.6	dBi	H-Pol. (Avg.)	-3.3	dBi
V-Pol. (Avg.)	-8.1	dBi	V-Pol. (Avg.)	-8.9	dBi
H+V. (Avg.)	-1.5	dBi	H+V. (Avg.)	-2.3	dBi

Fre. = 4620 MHz

Fre. = 4752 MHz



H-Pol. (Peak.)	1.6	dBi	H-Pol.(Peak.)	1.8	dBi
V-Pol. (Peak.)	-0.1	dBi	V-Pol.(Peak.)	-1.2	dBi
H+V. (Peak.)	3.8	dBi	H+V. (Peak.)	3.5	dBi
H-Pol. (Avg.)	-2.1	dBi	H-Pol. (Avg.)	-2.6	dBi
V-Pol. (Avg.)	-7.4	dBi	V-Pol. (Avg.)	-8.1	dBi
H+V. (Avg.)	-1.0	dBi	H+V. (Avg.)	-1.5	dBi