

APPROVAL SHEET

Dipole ANTENNA
868 MHz Working Frequency
Halogens Free Product
P/N: RFDPA171310IMBB301

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

Version	Date	Description	Author
V01	2015 Oct.	New Release	HWCHAN

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	860 ~ 870 MHz (Note-1)
Gain	1.93 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω

*Note 1. Central Frequency should be defined after customers' application approval.

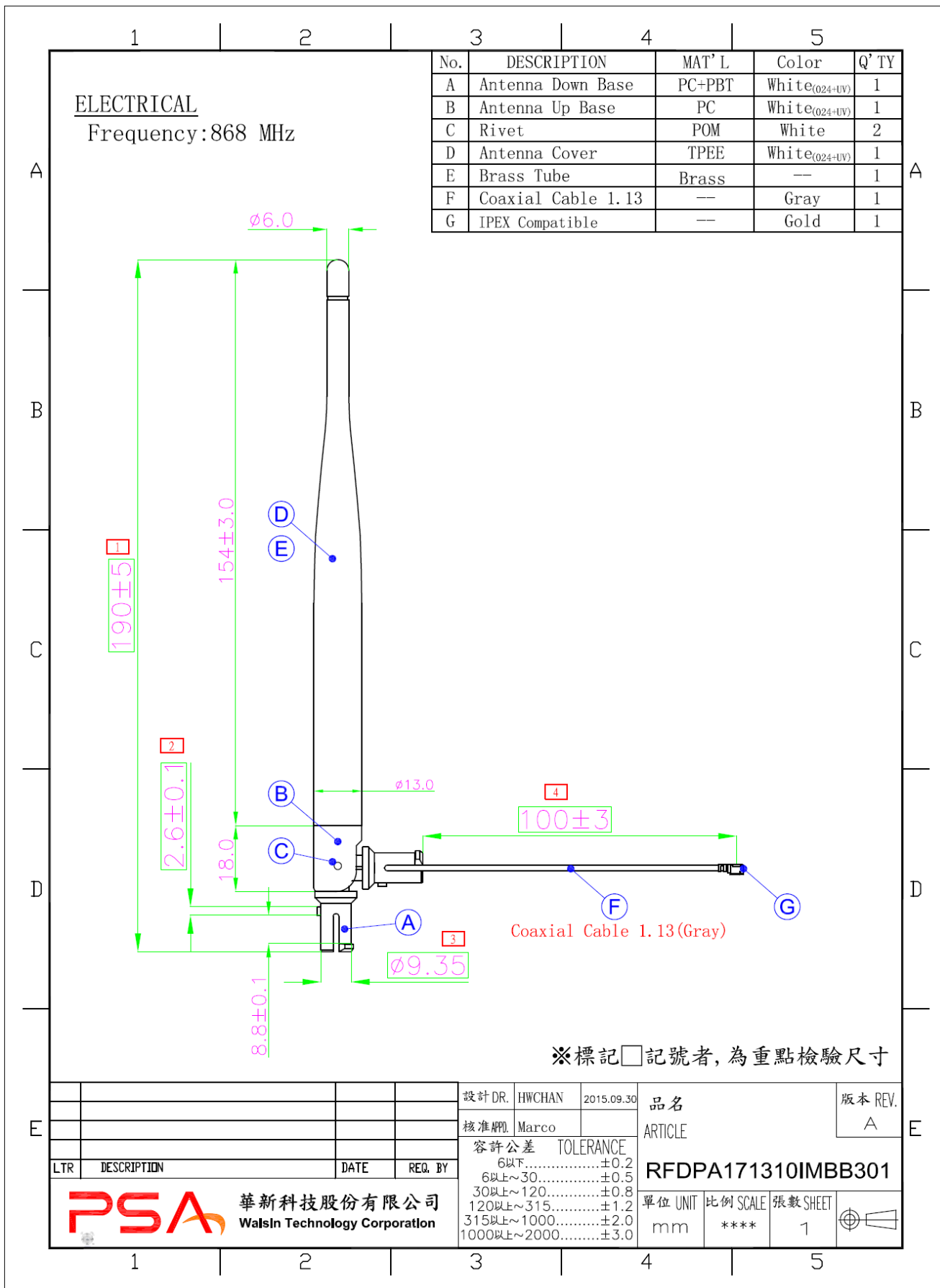
MATERIAL TABLE

Items	Description
Cable	Coaxial Cable ϕ 1.13(Gray)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	IPEX Compatible
Color	White
Brass Tube	Brass

ORDERING RULE

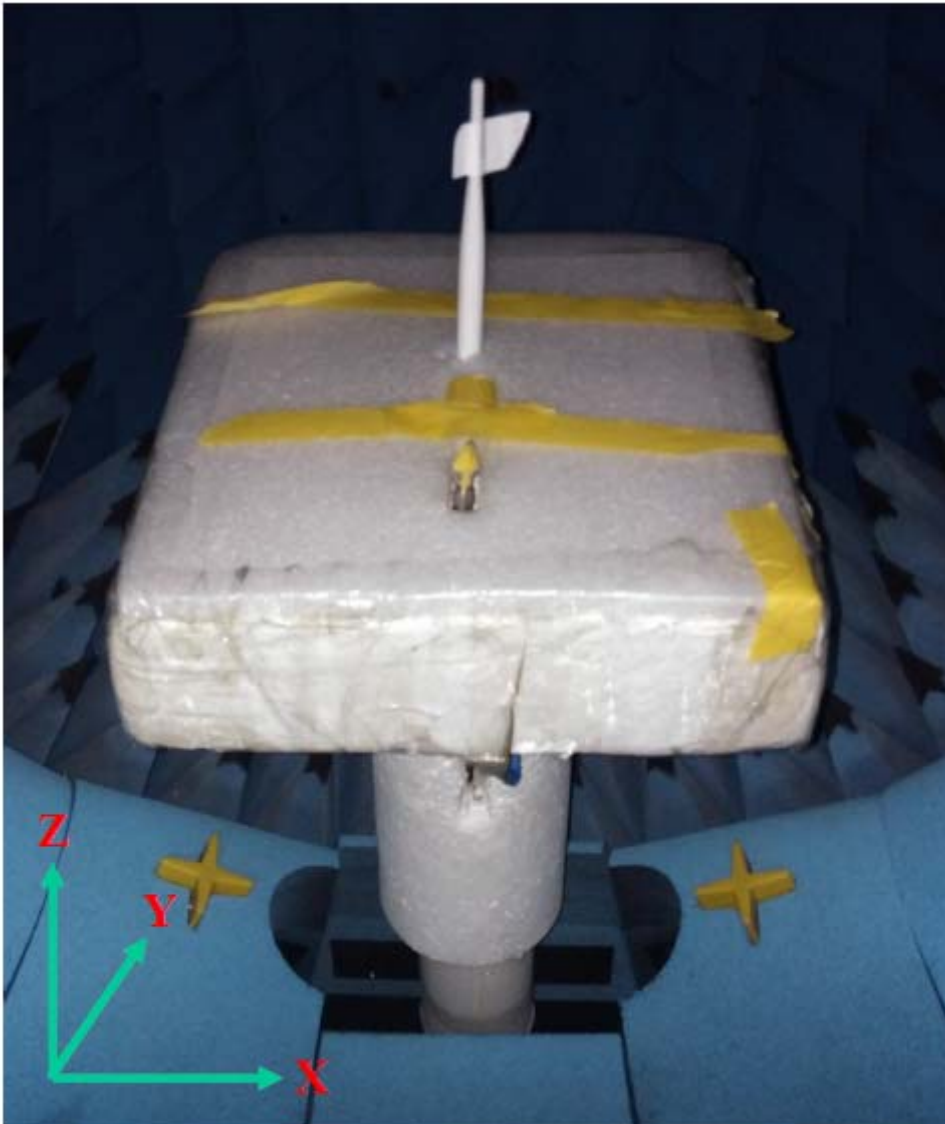
RF	DPA	1713	10	I	M	B	B	3	01
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width ϕ 13.0mm	2 digits for cable length e.g.:10 Cable Length:10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1: ϕ 0.81 3: ϕ 1.13 6:RG316 7: ϕ 1.37 8:RG178	01~99 series number

DIMENSIONS



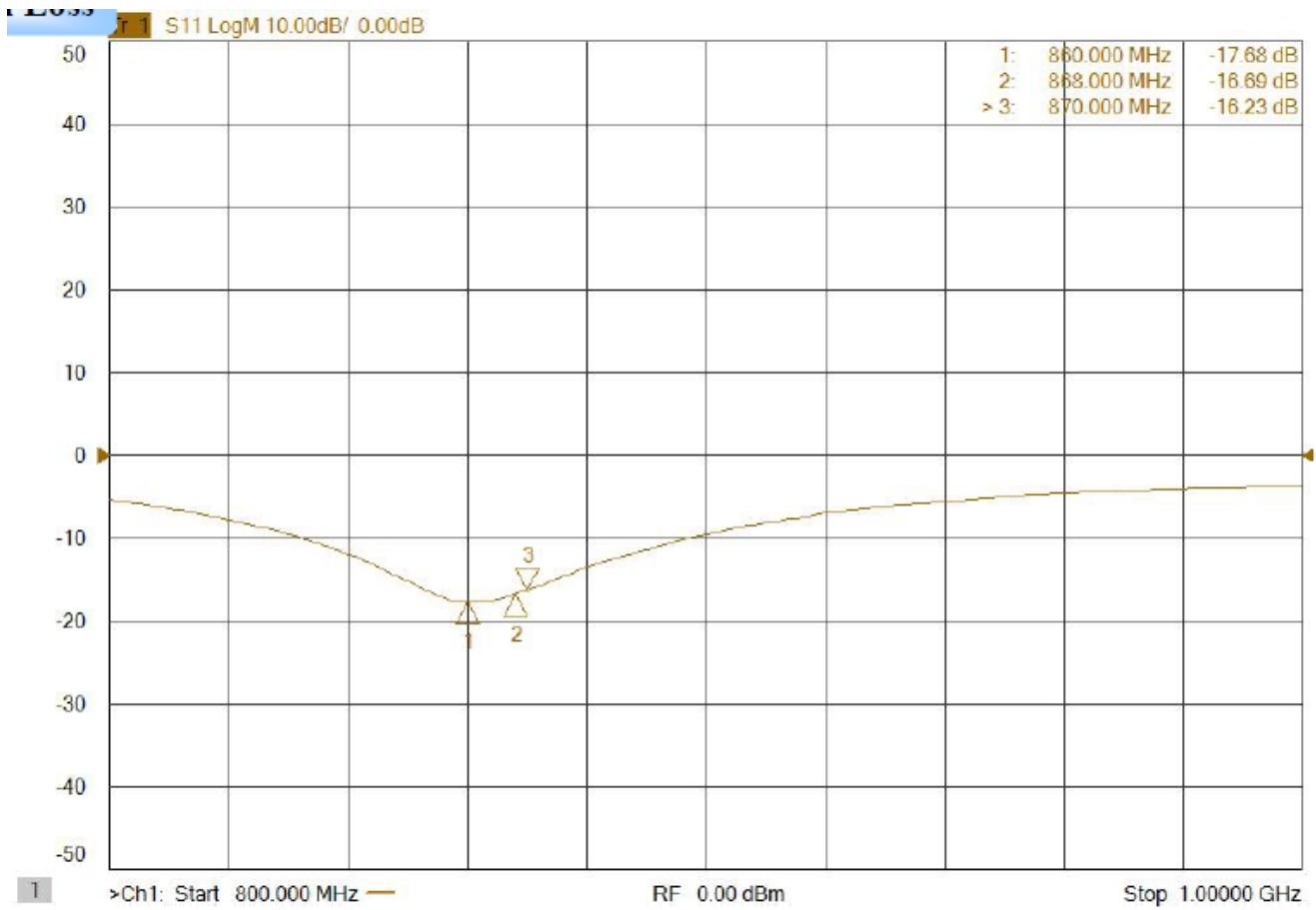
Test Report

■ Experimental Setup



ELECTRICAL CHARACTERISTICS

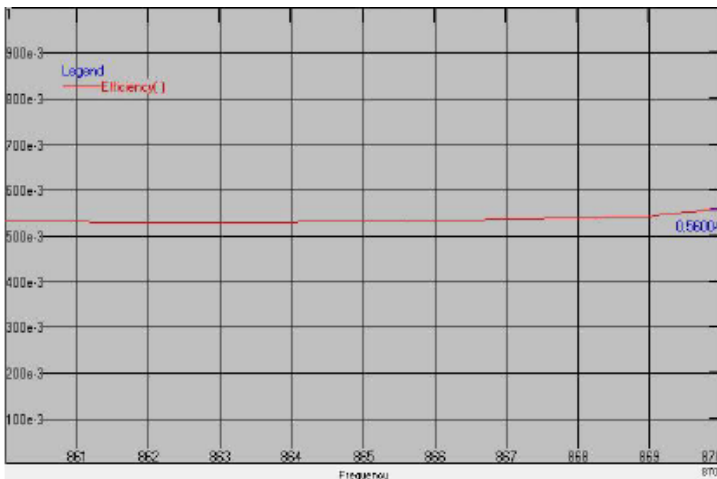
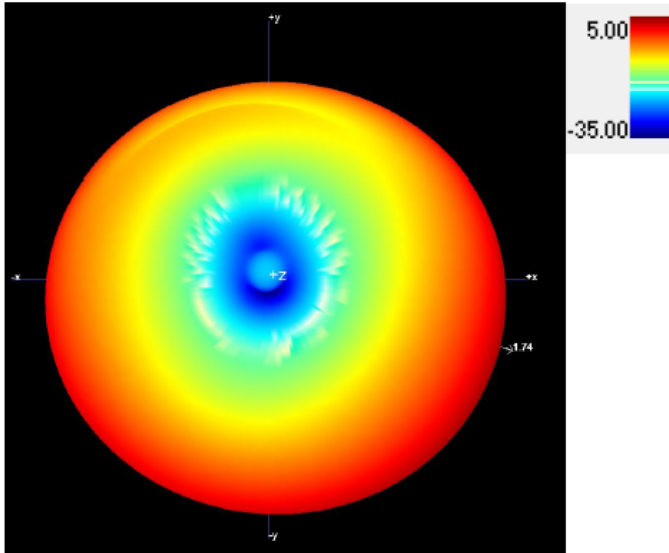
Return Loss



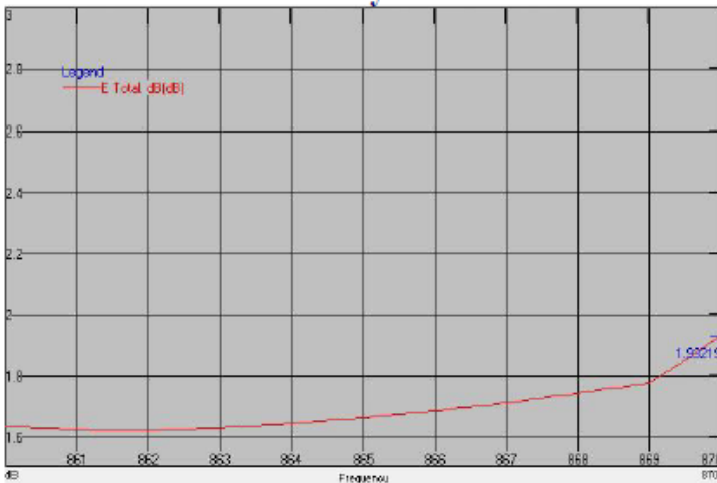
Antenna and Peak Gain

868 MHz

868 MHz



Maximum Efficiency at 870MHz : 56.00%



Maximum Peak Gain at 870 MHz : 1.93 dBi

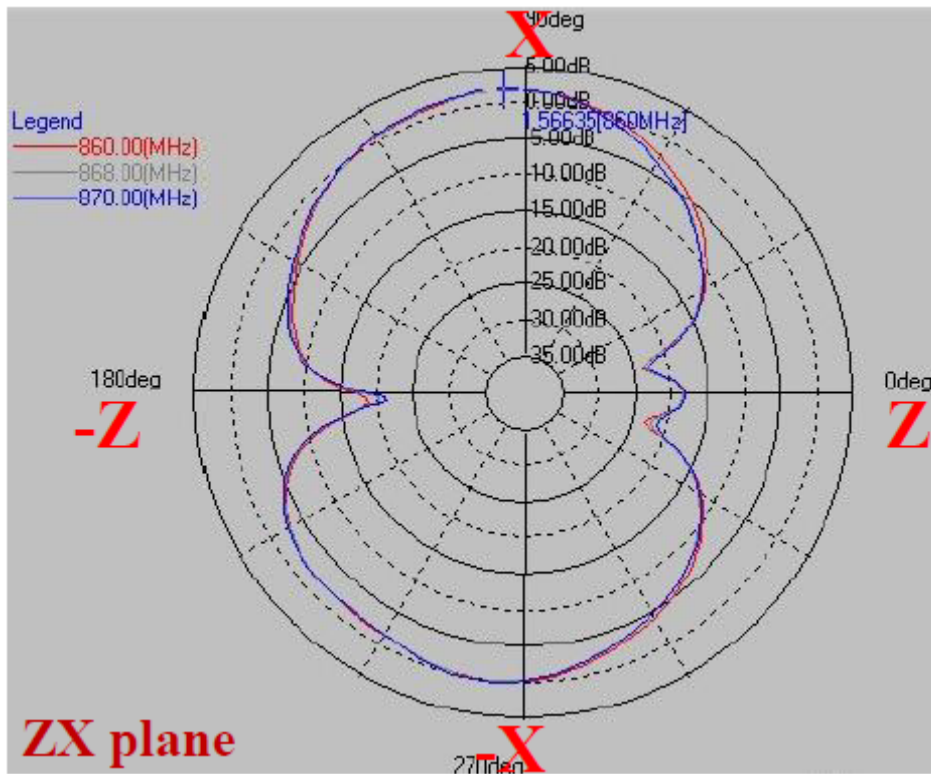
RADIATION PATTERN

860~870 MHz

X-Z Plane

Phi=0.00deg

Gain . dB

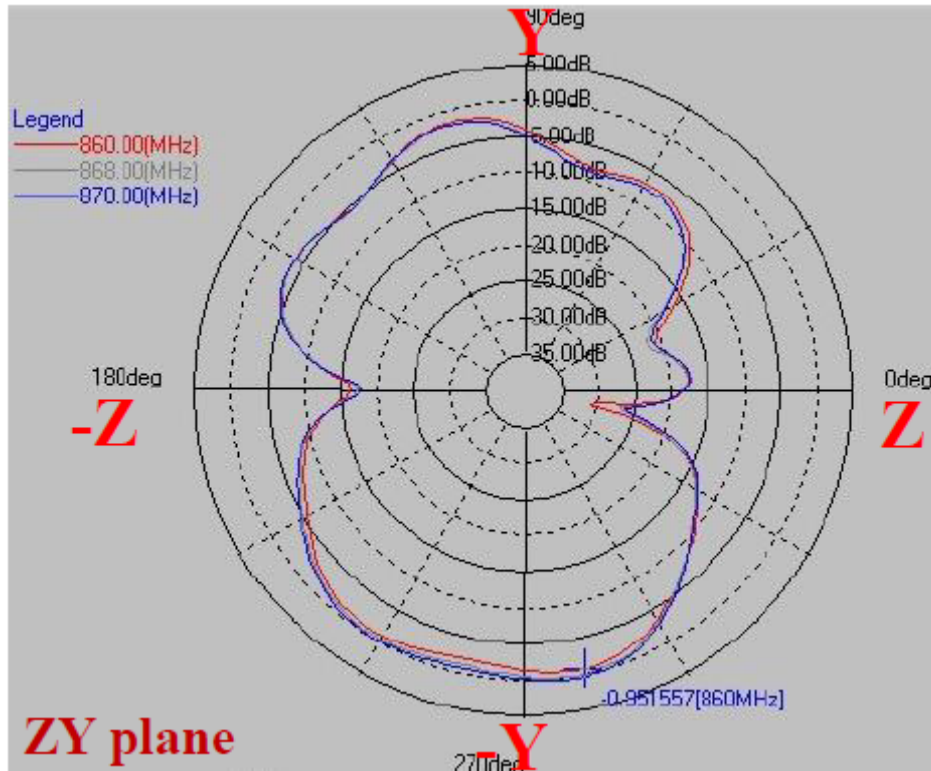


	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
860	1.57	-3.00
868	1.56	-3.11
870	1.71	-3.00

Y-Z Plane

Phi=90.00deg

Gain . dB

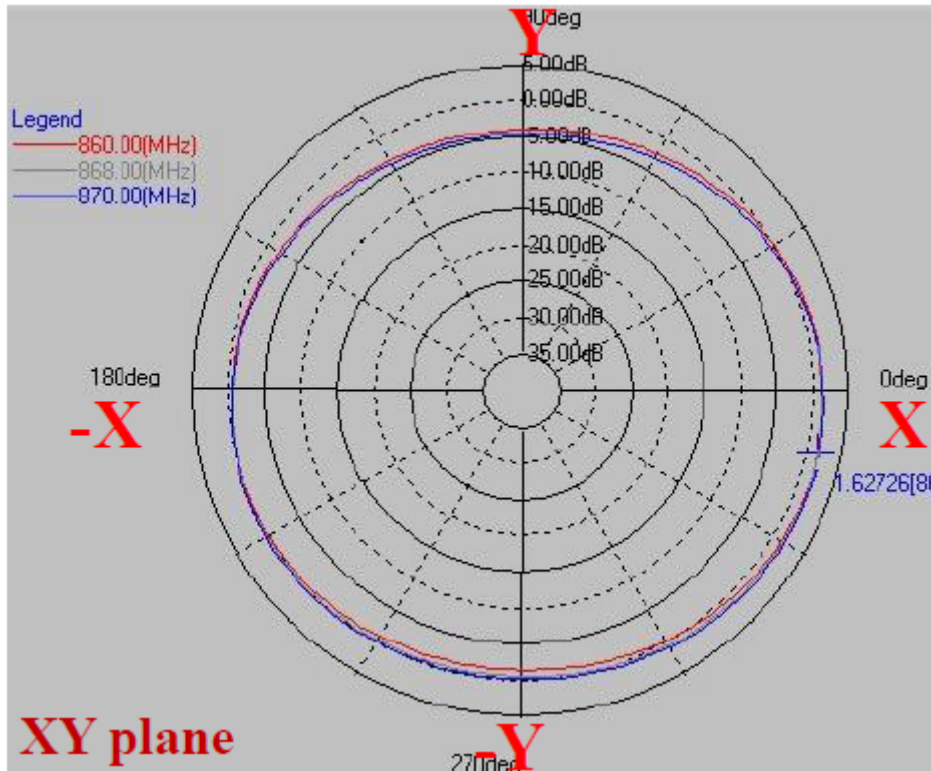


	ZY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
860	-0.95	-5.11
868	-0.17	-4.83
870	0.17	-4.60

X-Y Plane

Theta=90.00deg

Gain . dB



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
860	1.63	-0.77
868	1.73	-0.69
870	1.92	-0.51