

# APPROVAL SHEET

**Dipole ANTENNA**

**840~868 MHz Working Frequency**

**Halogens Free Product**

**P/N: RFDPA191300SMBB801**

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	2016 May.	New Release	SHLEE
V02	2016 May.	變更 PCB	SHLEE

Approval sheet

**ELECTRICAL CHARACTERISTICS**

Item	Specification
Working Frequency Range	840 ~ 868 GHz (Note-1)
Gain	1.51 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.

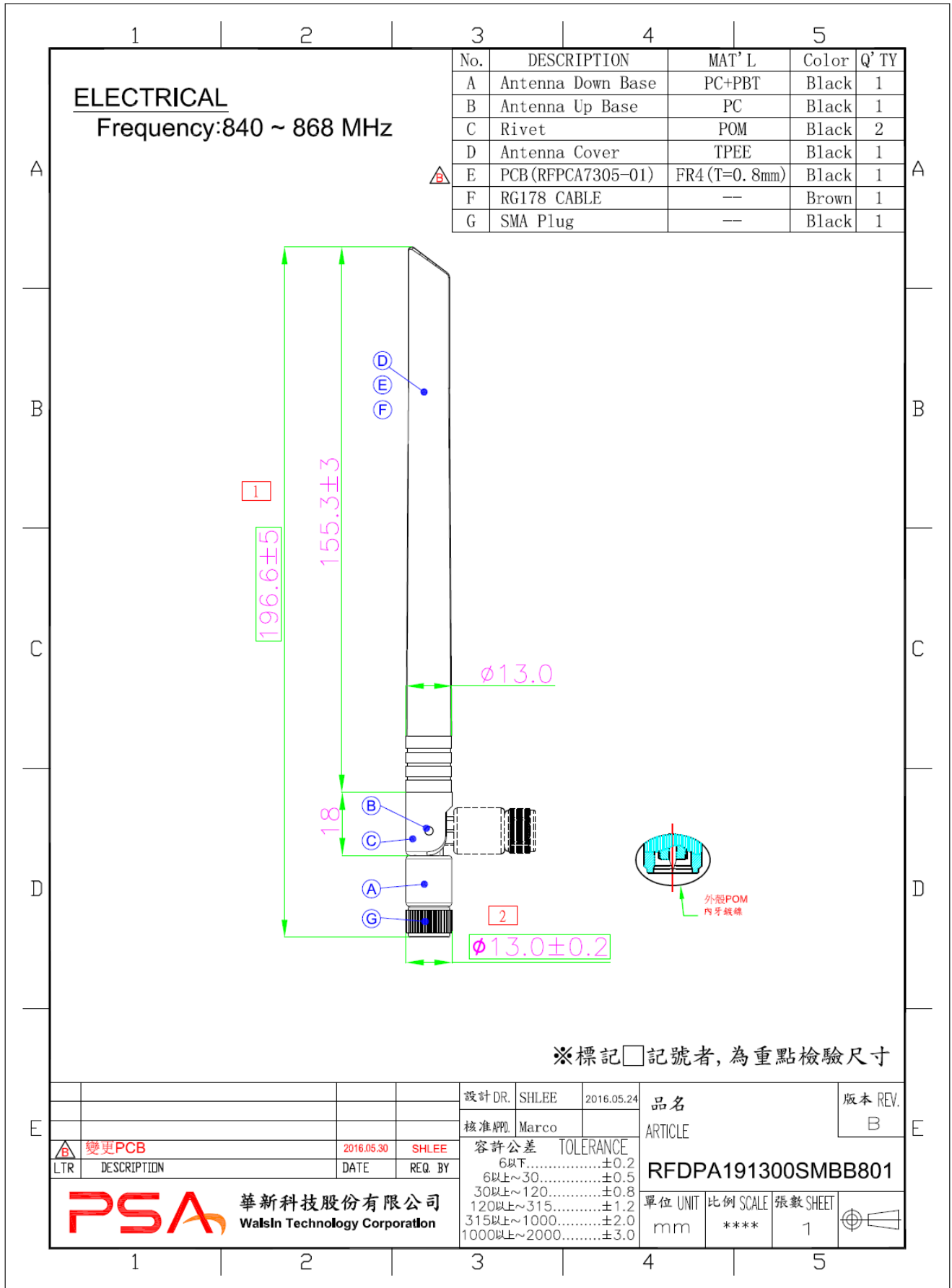
**MATERIAL TABLE**

Items	Description
Cable	RG178(Brown)
Antenna Down Base	PC+PBT(Black)
Antenna Up Base	PC(Black)
Rivet	POM(Black)
Antenna Cover	TPEE(Black)
PCB	FR4
Heat Shrink Tube	CB-HFT(Black)
SMA Plug	Black

**ORDERING RULE**

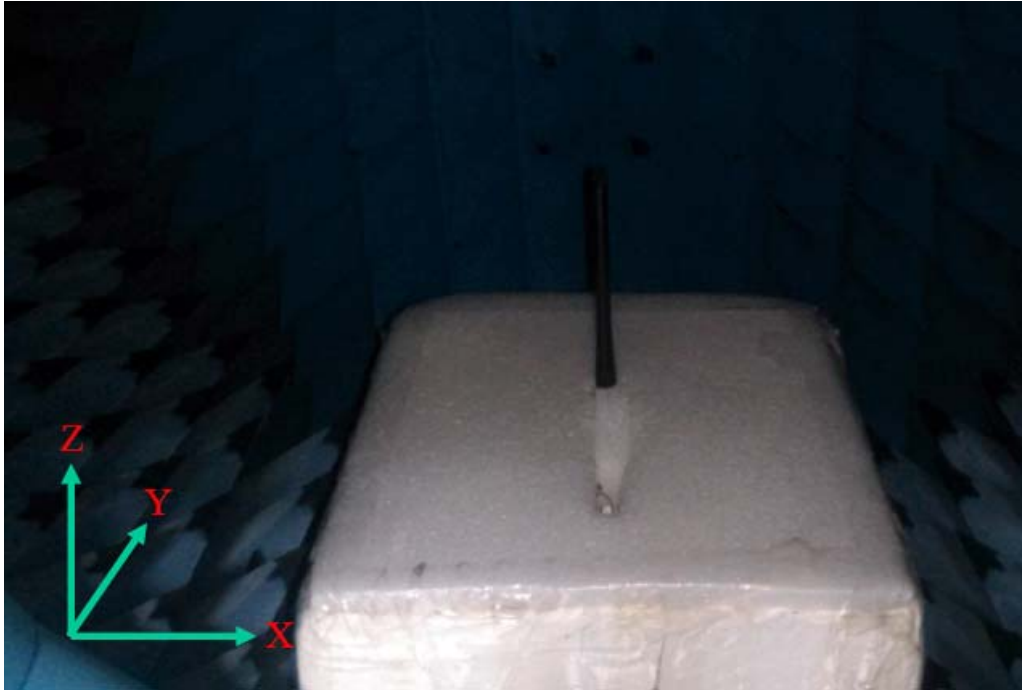
RF	DPA	1913	00	S	M	B	B	8	01
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width 13mm	2 digits for cable length e.g.: 00 None Cable	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:∅0.81 3:∅1.13 6:RG316 7:∅1.37 8:RG178	01~99 series number

**DIMENSIONS**



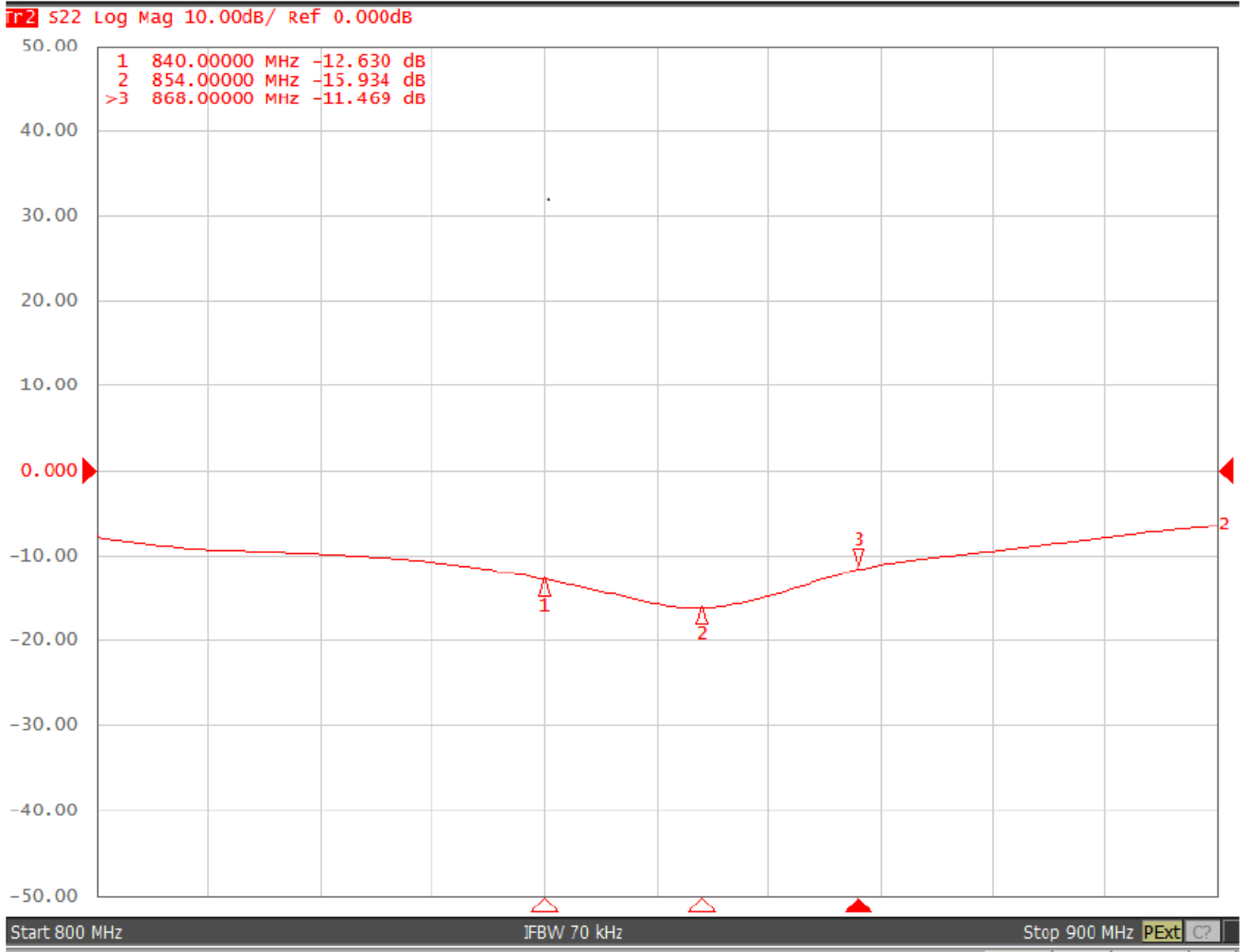
# Test Report

## ■ Experimental Setup

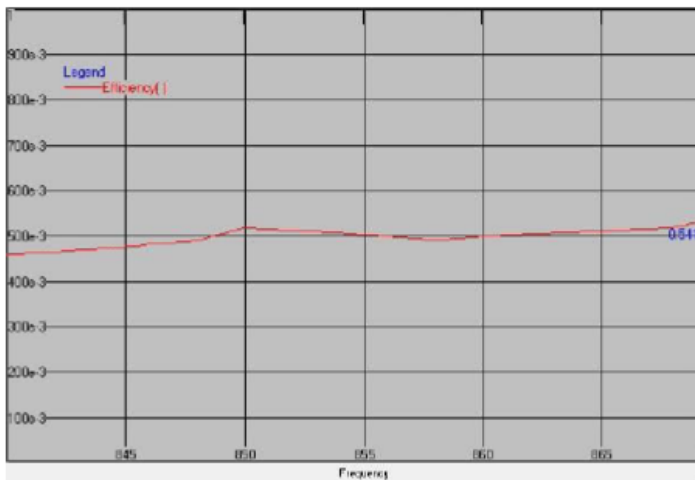
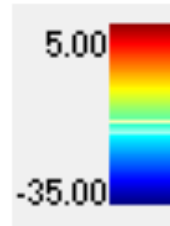
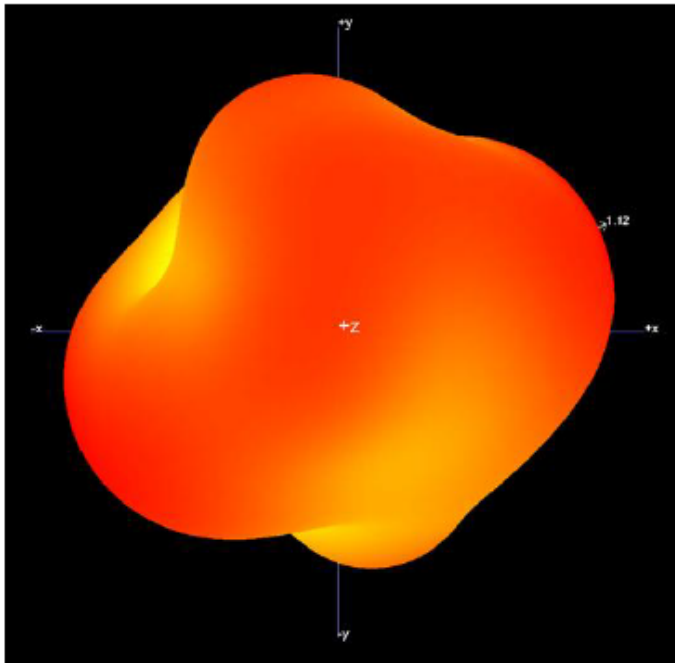


# ELECTRICAL CHARACTERISTICS

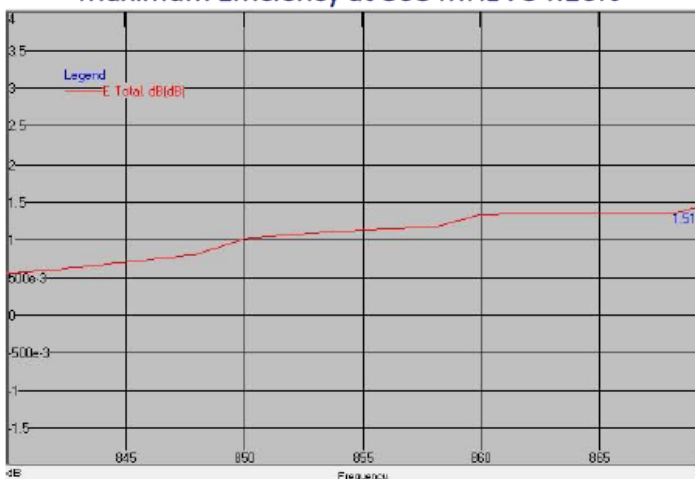
## Return Loss



# Antenna Efficiency & Peak Gain 854 MHz



Maximum Efficiency at 868 MHz : 54.16%



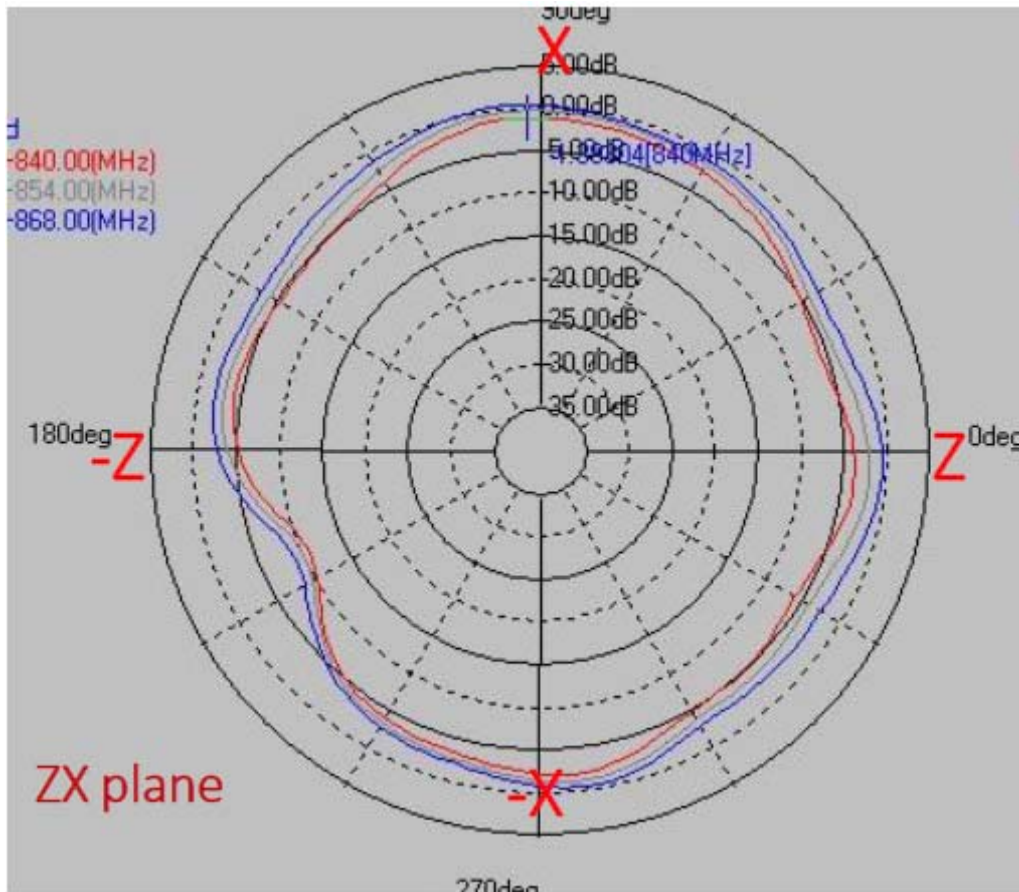
Maximum Peak Gain at 868 MHz : 1.51 dBi

# RADIATION PATTERN

840~868 MHz

Phi=0.00deg

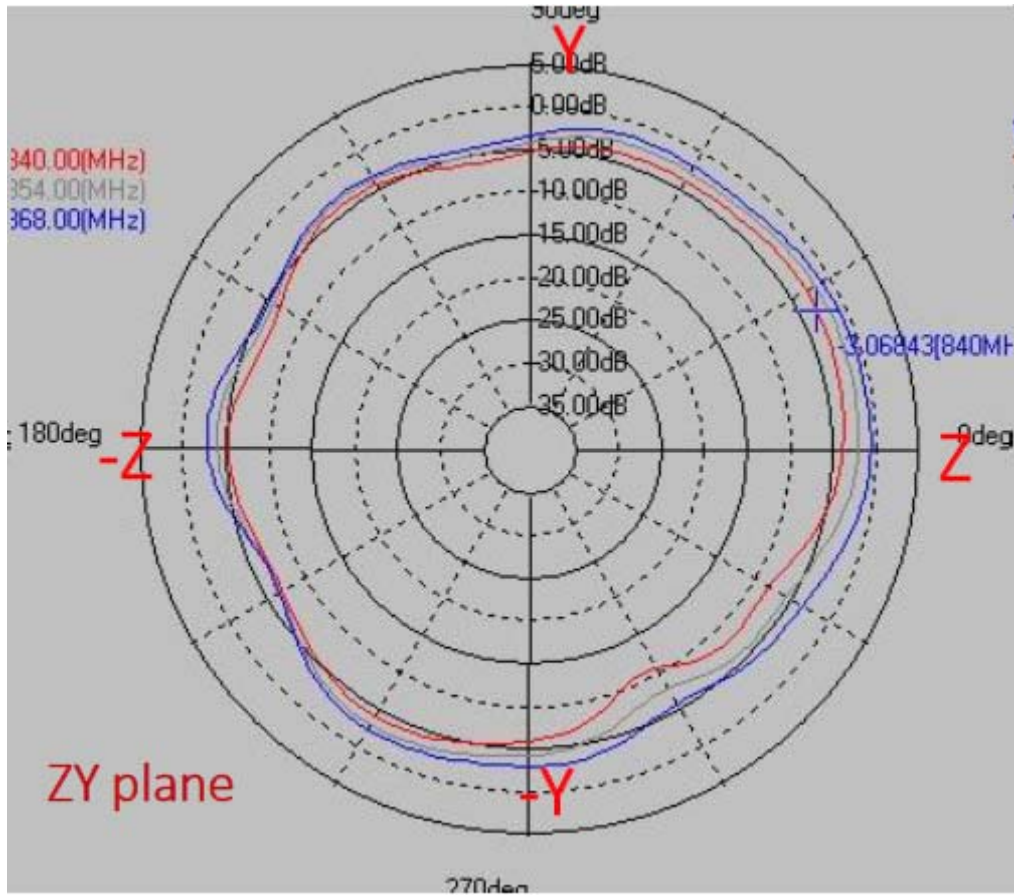
Gain . dB





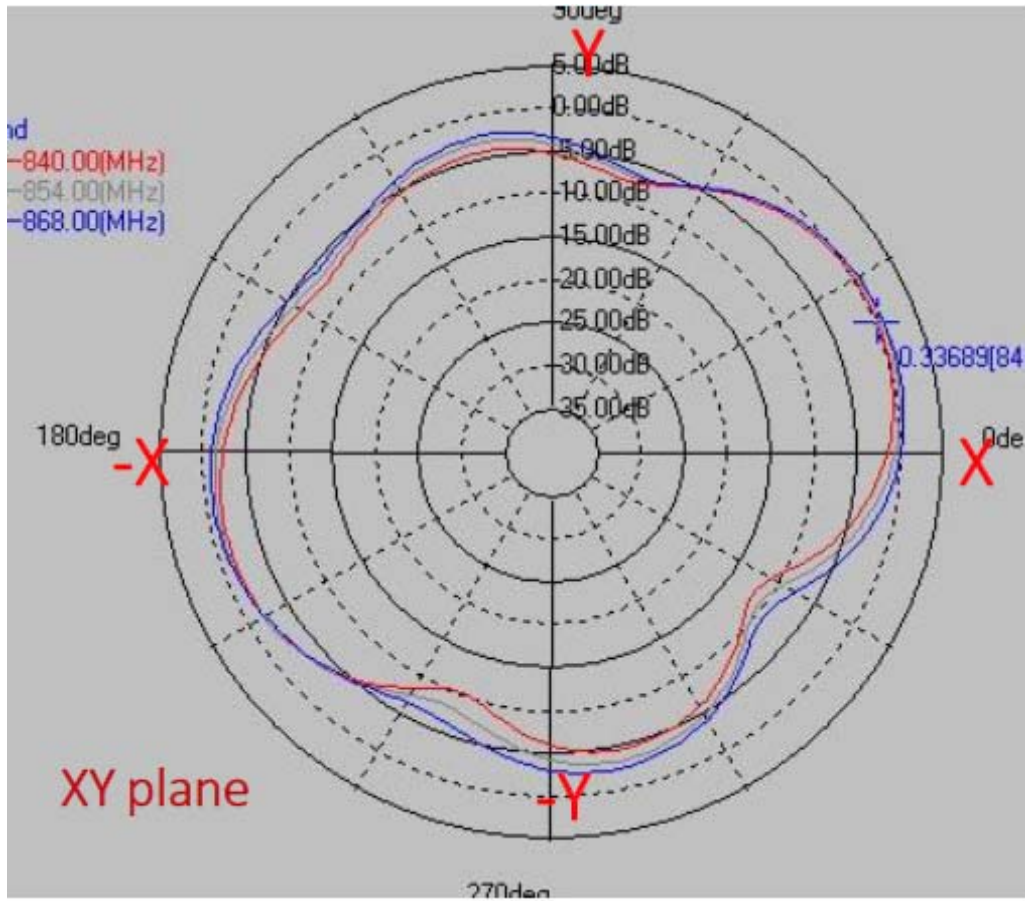
Phi=90.00deg

Gain . dB



Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
840	-1.39	-4.17	-3.07	-5.37	0.34	-4.04
854	-0.50	-3.06	-1.77	-4.10	0.85	-3.31
868	0.19	-2.13	-0.52	-3.07	1.06	-2.82

**PACKAGE**

<b>華新科技股份有限公司</b>	
RFDPA191300SMBB801包規	頁次： 4 之 3
	規章編號：                      版次： A版
	制修訂日期： 2016/6/20

**包裝圖**

圖一



圖二



圖三



**產品包裝規範：**

- 1.將每10pcs產品裝入PE袋內，封口，再在PE袋中上方粘貼製造標籤，如圖示（一）
- 2.將珍珠棉放入外箱中(如圖示二)
- 3.將裝好的成品(如圖示三)放入外箱中，每箱放600pcs產品，上下各放1片珍珠棉。
- 4.標籤需貼到最小包裝。

製造標籤圖示：實物標籤內容僅作參考 具體內容以出貨料號為準



- (NO 1.): Spec desc.
- (NO 2.): 料號 批號 數量(PN & LOT & QTY)
- (NO 3.): 盤點條碼(Inventory check barcode)
- (NO 4.): 列印時間-總張數(print system time-total piece this print)
- (NO 5.): 表示 BULK LOT
- (NO 6.):表示該張標籤流水序號

標籤注釋權屬華科電子有限公司

核准：	何耀輝	審核：	尤印化	制定：	袁蕊蕊
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