

APPROVAL SHEET

Dipole ANTENNA
2.4/5.X GHz Working Frequency
Halogens Free Product
P/N: RFDPA870900SBLB8G1

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 Feb.	New Release	SHLEE
V02	2019 Nov.	變更工作溫度	CXLIU
V03	2020 Apr.	變更包規	PIPI
V04	2021 Sep.	修正頻段描述	SHLEE

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz (Note-1)
Gain	2.4 ~ 2.5 GHz : 2 dBi 5.15 ~ 5.85GHz : 3 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.

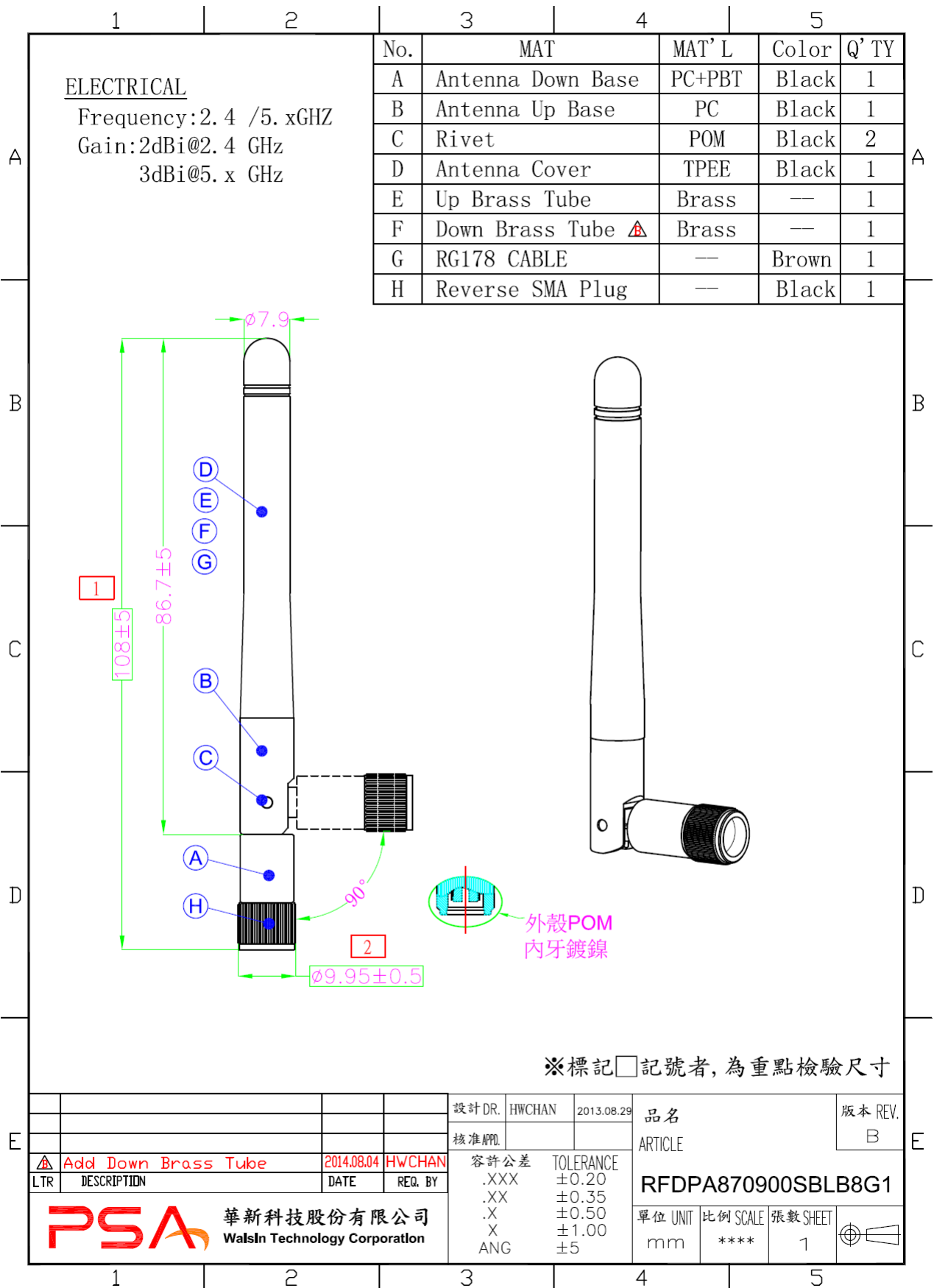
MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT
Operating Temp	-40℃~+85℃

ORDERING RULE

RF	DPA	8709	00	S	B	L	B	8	G1
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.: 8709 Length 86.7mm, Width 9.95mm	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

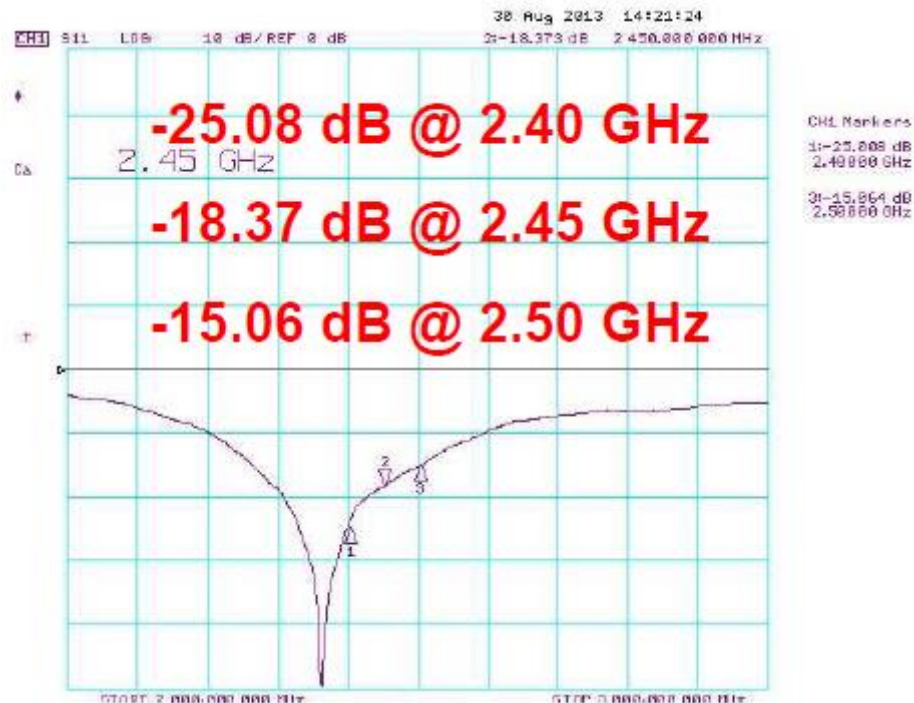
DIMENSIONS



Test Report

ELECTRICAL CHARACTERISTICS

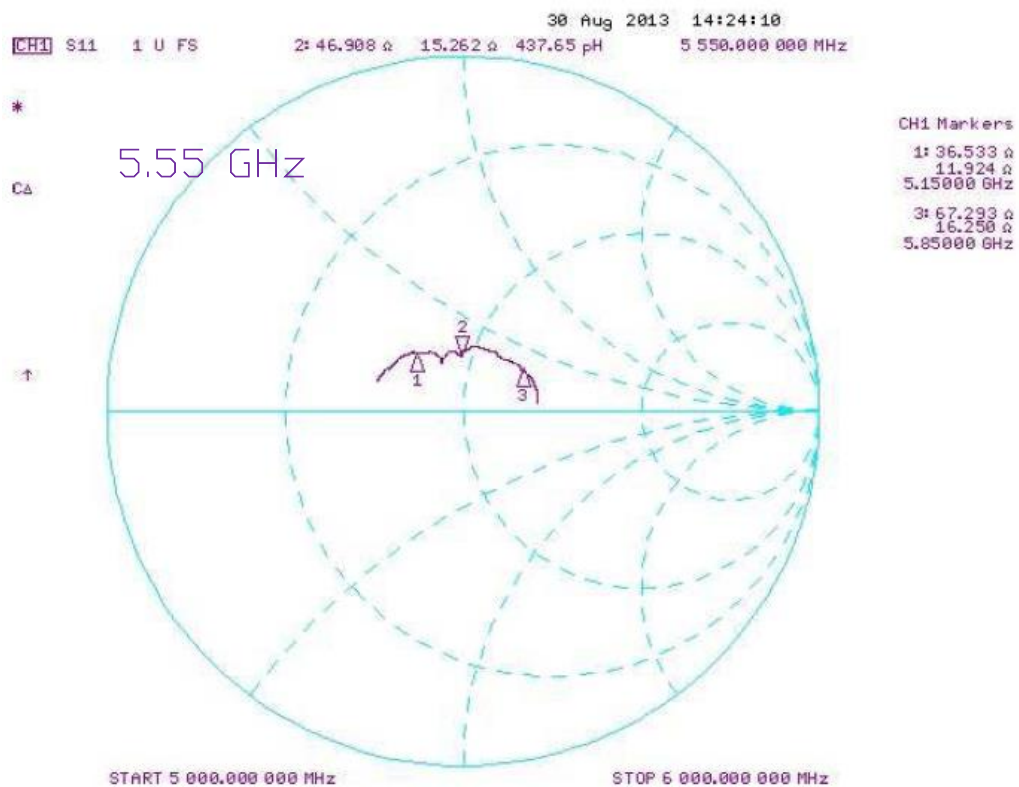
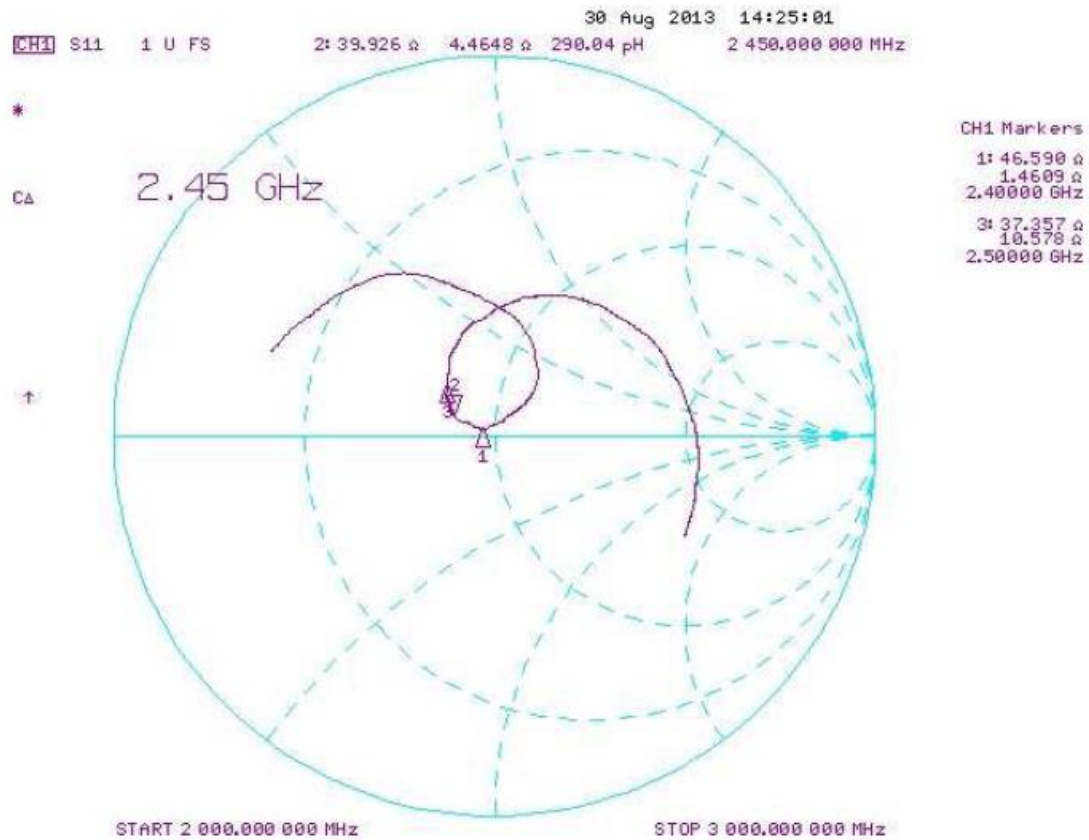
Return Loss



VSWR



Smith Chart



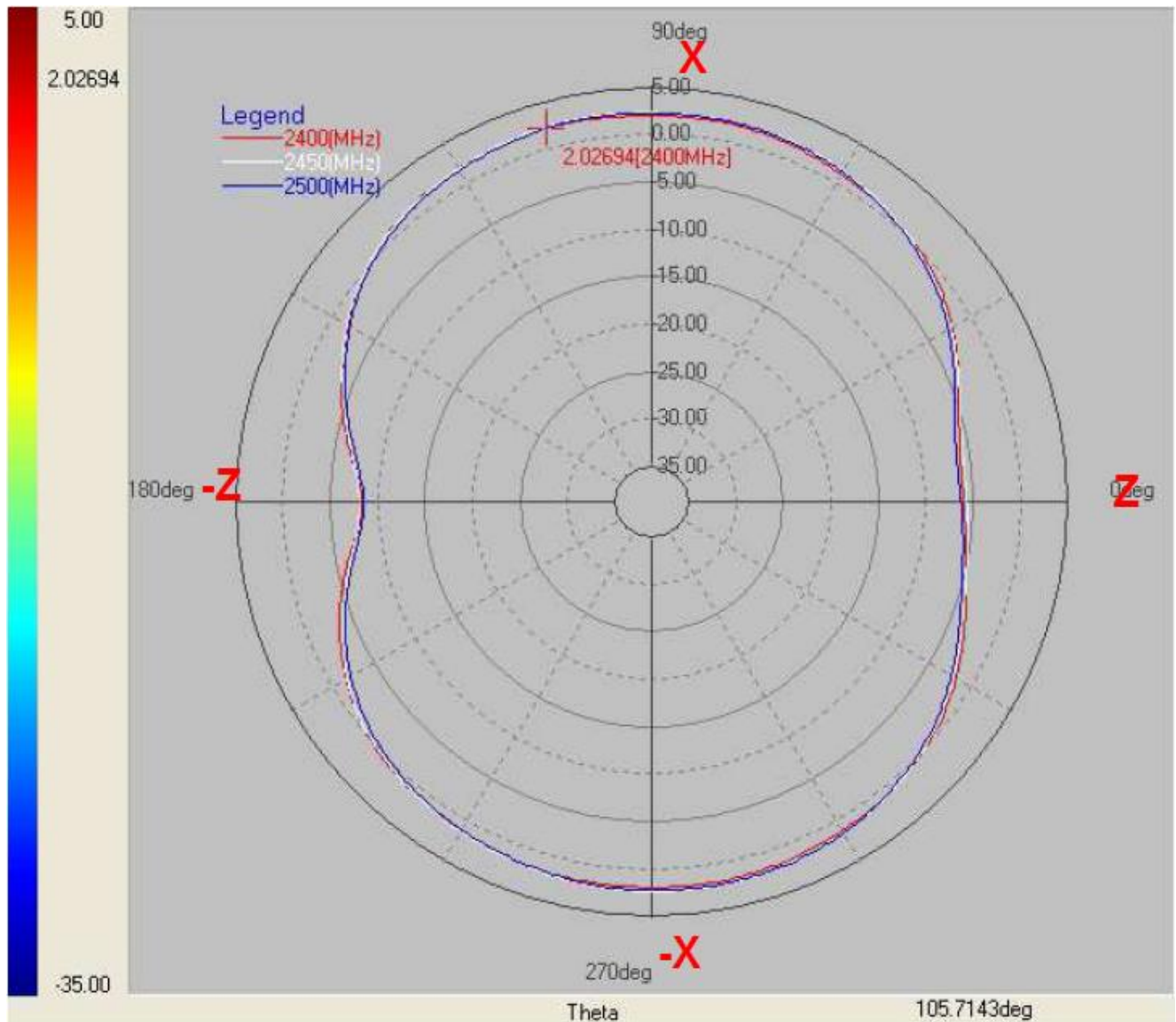
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



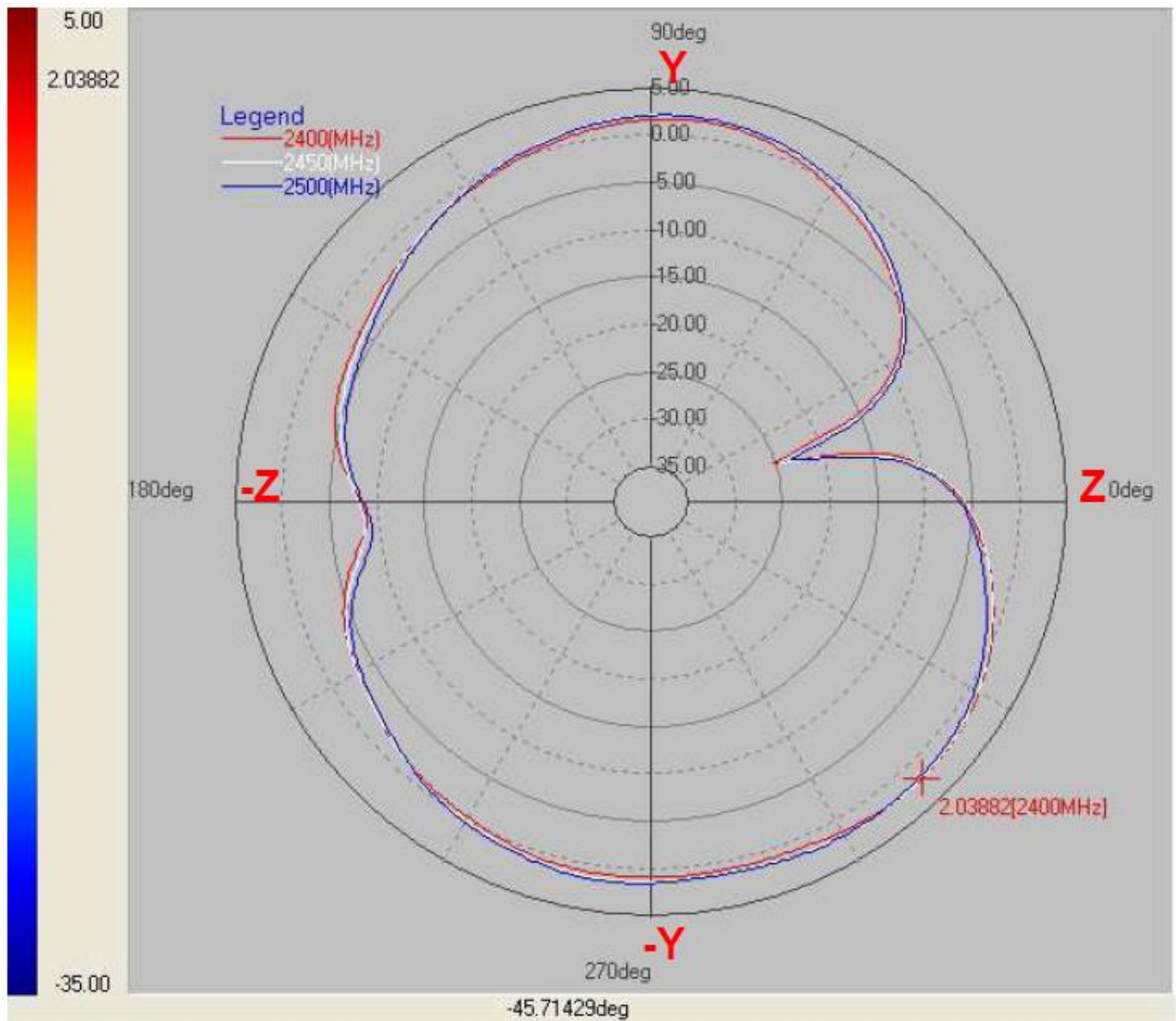
Layer	Max value	Min value	Average
2400(MHz)	2.03	-8.37	-0.17
2450(MHz)	2.20	-8.08	-0.04
2500(MHz)	2.12	-8.53	-0.21

2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



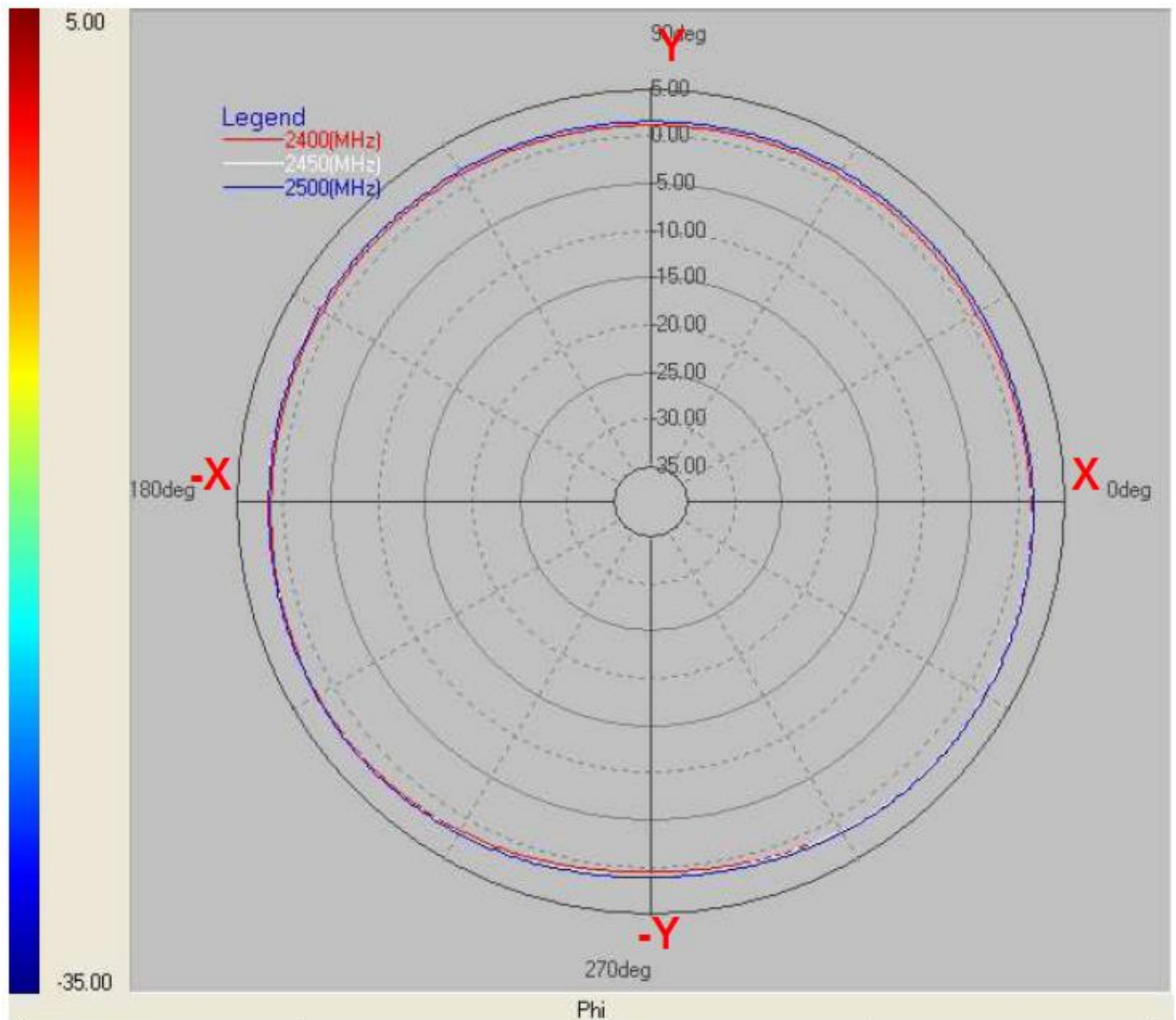
Layer	Max value	Min value	Average
2400(MHz)	2.04	-25.82	-1.07
2450(MHz)	2.02	-25.22	-0.82
2500(MHz)	2.01	-23.79	-1.07

2400~2500 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



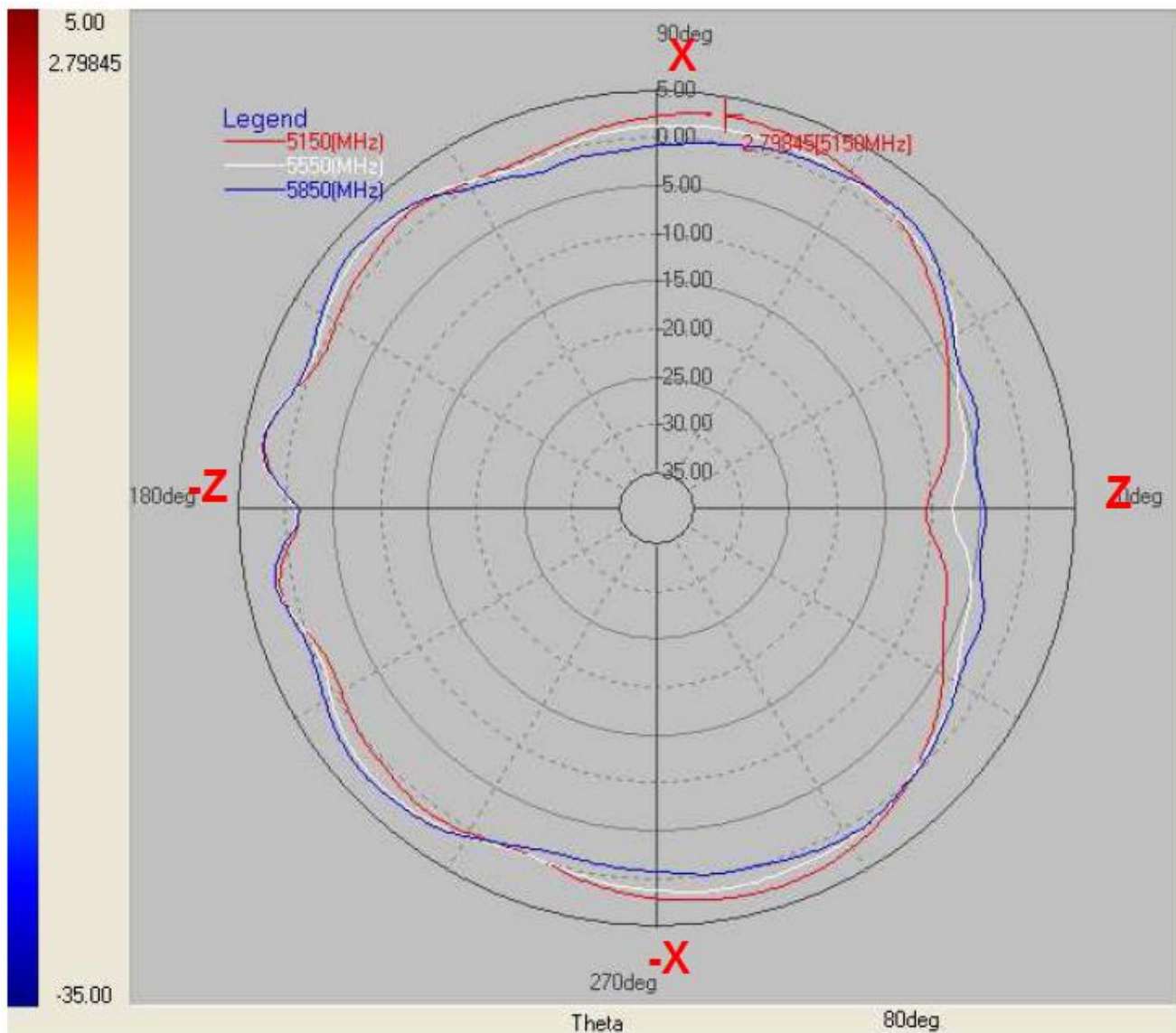
Layer	Max value	Min value	Average
2400(MHz)	2.10	0.35	1.32
2450(MHz)	2.08	0.65	1.55
2500(MHz)	2.13	0.91	1.60

5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



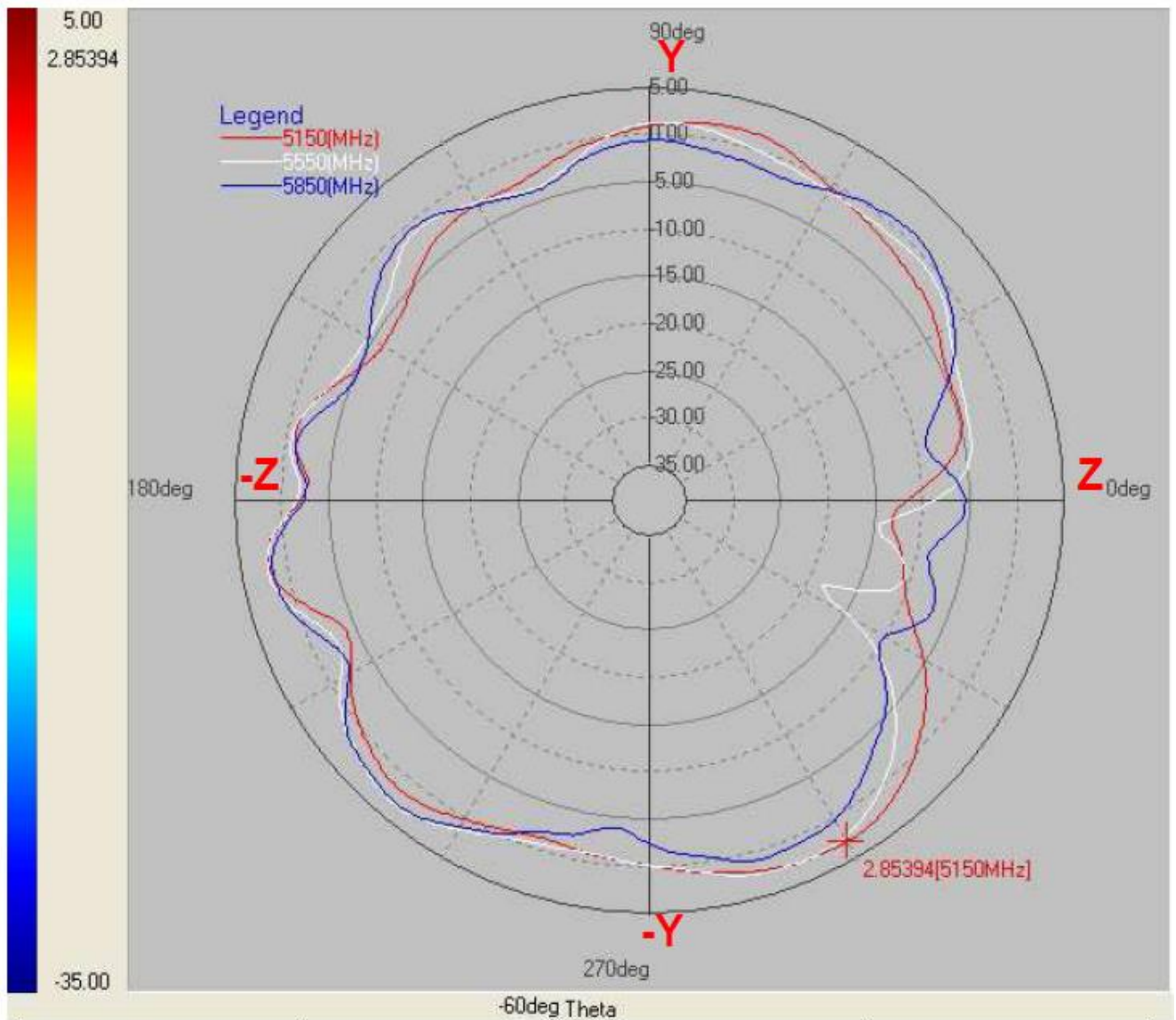
Layer	Max value	Min value	Average
5150MHz)	2.80	-10.65	0.29
5550(MHz)	3.05	-7.90	0.32
5850 (MHz)	2.93	-6.22	-0.90

5150~5850 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



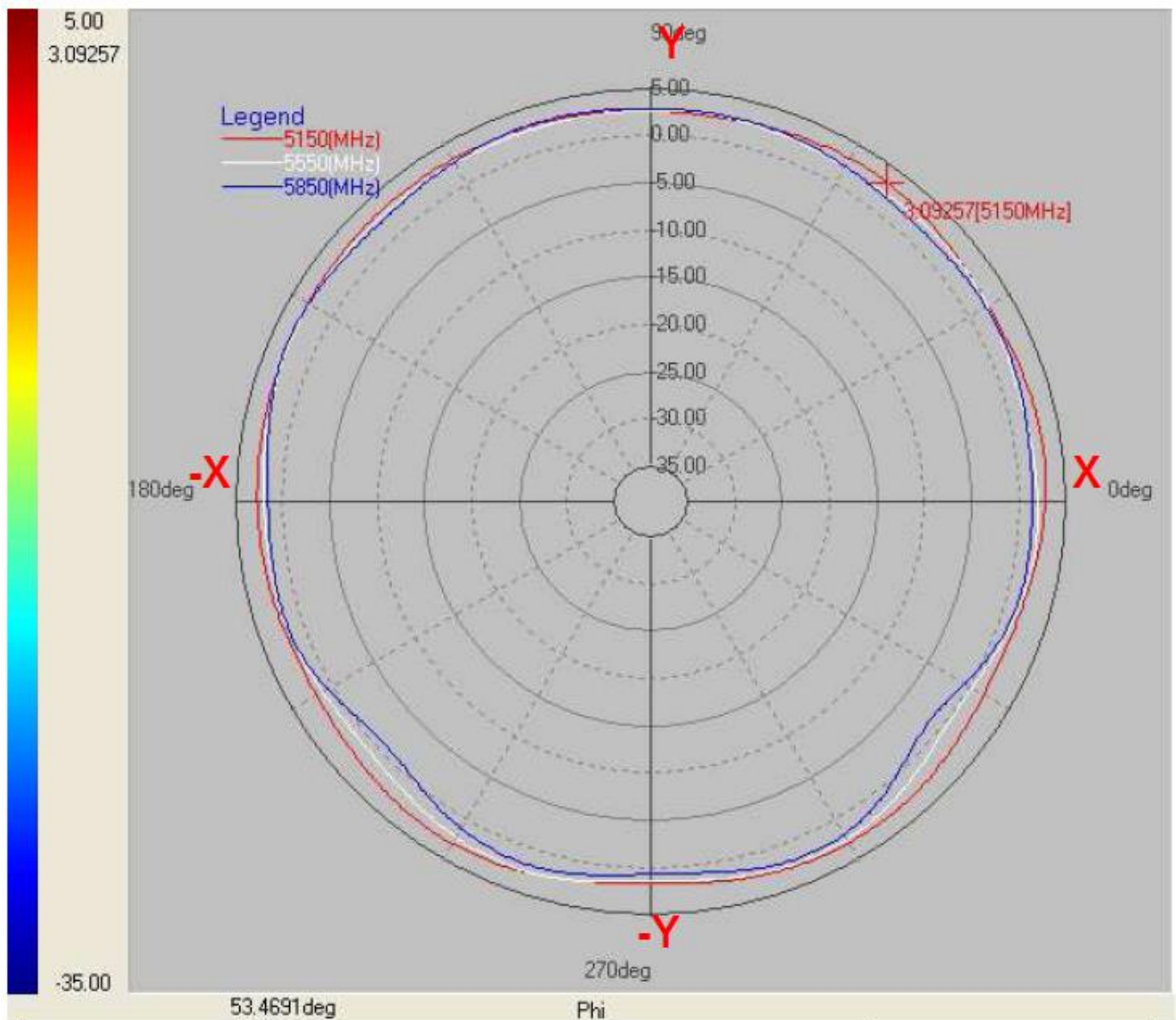
Layer	Max value	Min value	Average
5150MHz)	2.85	-13.11	-1.04
5550MHz)	3.12	-18.74	-0.84
5850(MHz)	2.95	-10.38	-1.48

5150~5850 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	3.09	1.52	2.58
5550(MHz)	2.84	0.31	2.03
5850(MHz)	3.01	-1.36	1.69

Package

RFDPA870900SBLB8G1包規		頁次： 6 之 3	
		規章編號：PDS070005440	版次：A1版
制修訂日期：2020/4/3			

包裝圖

圖一


→

→


單PCS產品
100pcs/PE袋

圖二


→

→


圖三


→

→


產品包裝規範：

- 將每100PCS產品裝入PE袋中並熱縮封口，在PE袋中上方黏貼製造標(如圖示一)
- 將珍珠棉放入外箱中(如圖示二)
- 將裝好的成品(如圖示三)放入外箱中，每箱放1800pcs產品，上下各放1片珍珠棉，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

核准：	何耀輝	審核：	童明輝	制定：	程碧琴
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