

# APPROVAL SHEET

**Metal ANTENNA**

**2.4 GHz Working Frequency**

**Halogens Free Product**

**P/N: RFMTA340745IMAB701**

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 SEP.	New Release	SHLee

**ELECTRICAL CHARACTERISTICS**

Item	Specification
Frequency Range	2.4 ~ 2.5GHz
Impedance	50 Ohm Nominal
Return Loss	-10 dB (Max)
Peak Gain	3.39 dBi
VSWR	2.0 (Max)
Radiation	Omni-directional
Polarization	Linear Vertical
Admitted Power	1W

\*note-1: Electrical characteristics will depend on customer's final application.

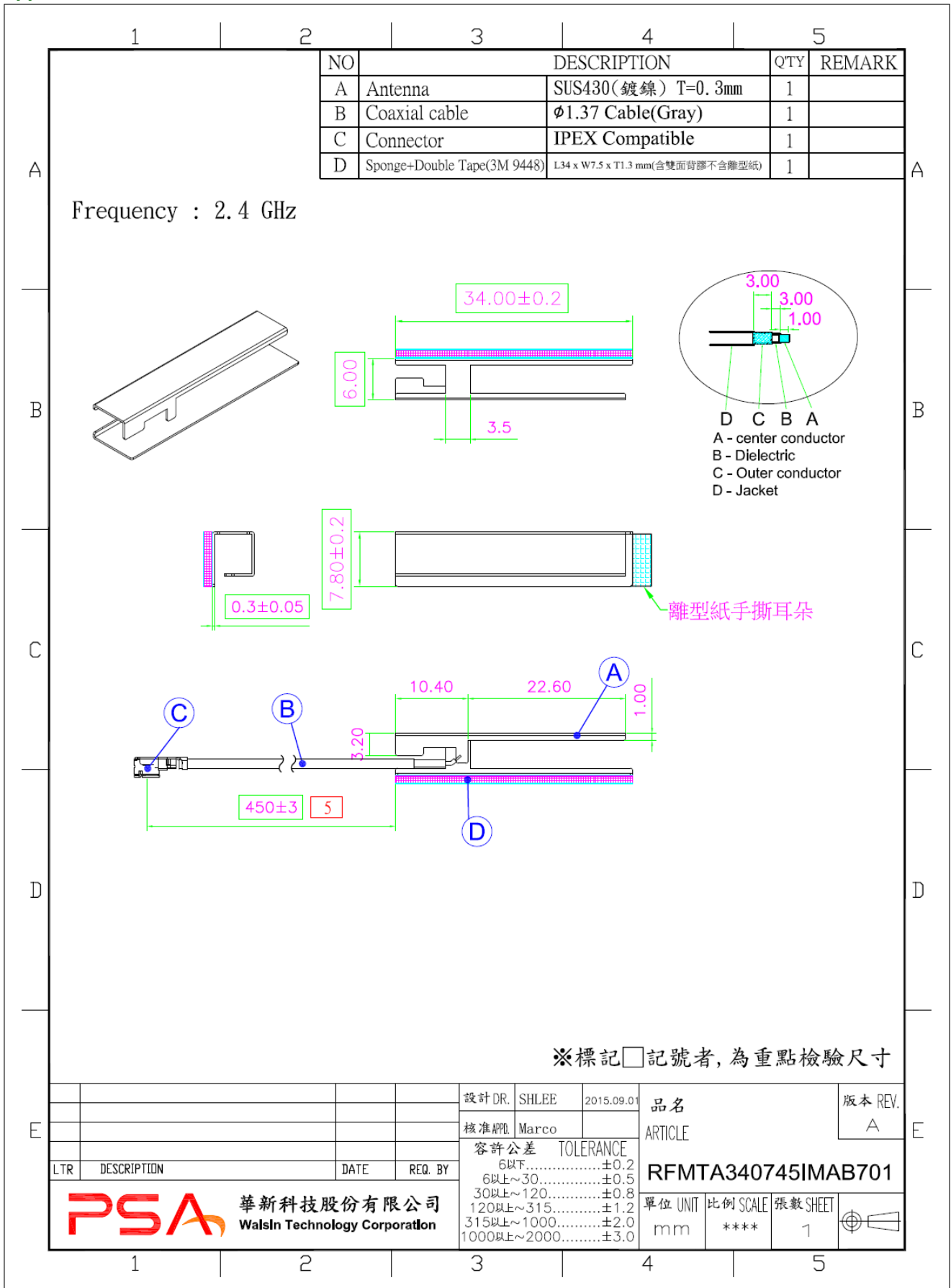
**MATERIAL TABLE**

Items	Description
Metal	SUS 430 T=0.3mm(鍍鎳)
Cable	∅ 1.37 (Gray)
Connector	IPEX Compatible
Sponge+Double Tape(3M 9448)	L34*W7.5*T1.3mm(含雙面背膠不含離型紙)

**ORDERING RULE**

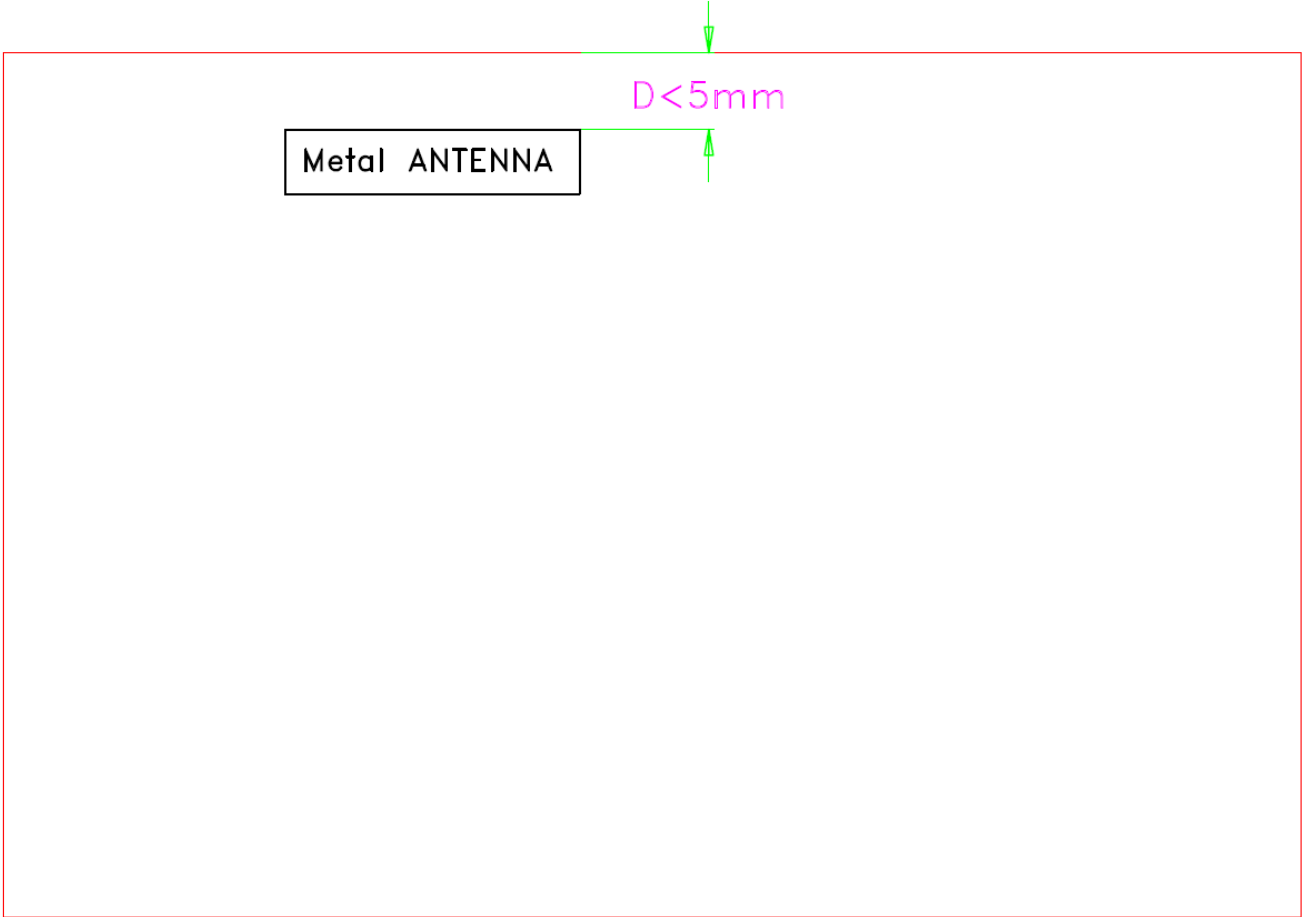
RF	MTA	3407	45	I	M	A	B	7	01
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	MTA: Metal Antenna	Per 2 digits of length, width e.g.: 4308 Length 43mm, Width 8.3mm	2 digits for cable 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: 5GHz 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: Durin g Test X: Pile Run	0:None 1:∅ 0.81 3:∅ 1.13 6:RG316 7:∅ 1.37 8:RG178	01~99 series number

Appendix A: Dimensions



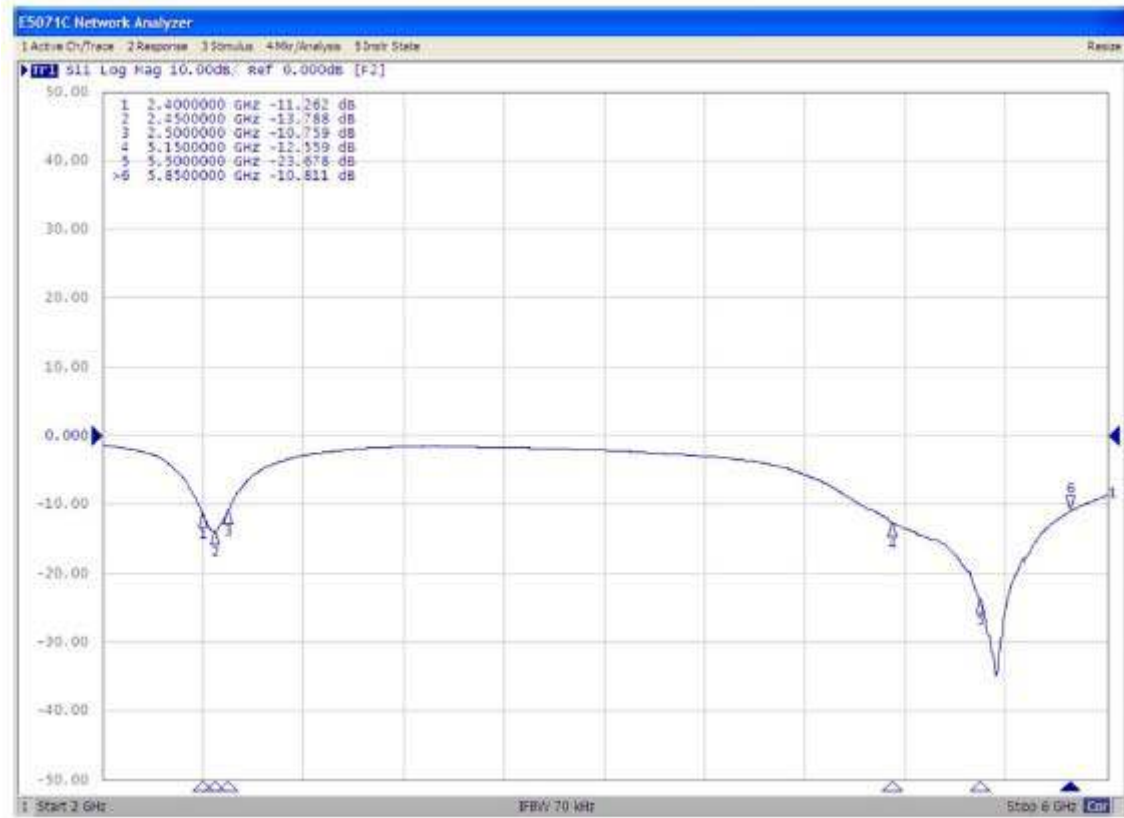
# Test Report

## ■ PCB Layout

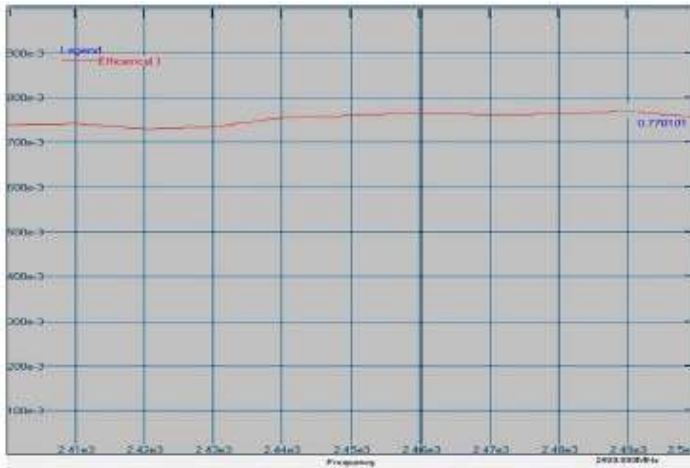
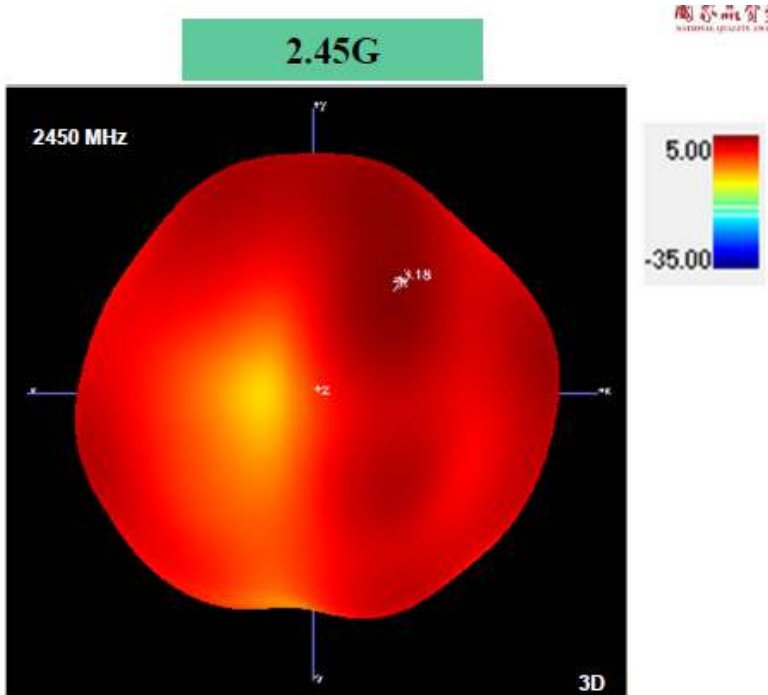


## ■ ELECTRICAL CHARACTERISTICS

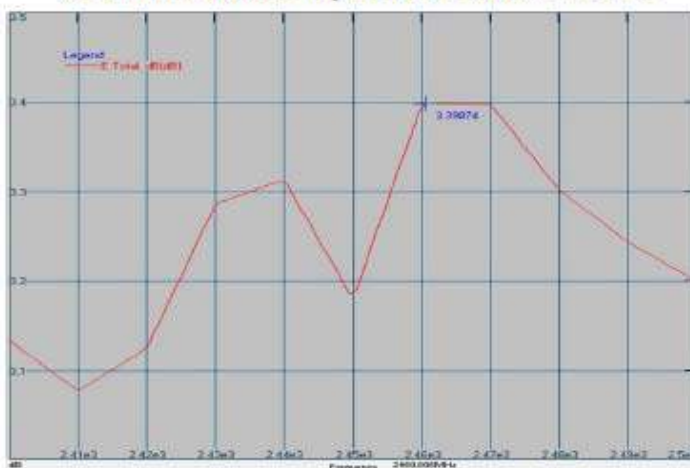
### Return Loss



## ■ Antenna Efficiency & Peak Gain



Maximum Efficiency at 2489 MHz : 77.0 %



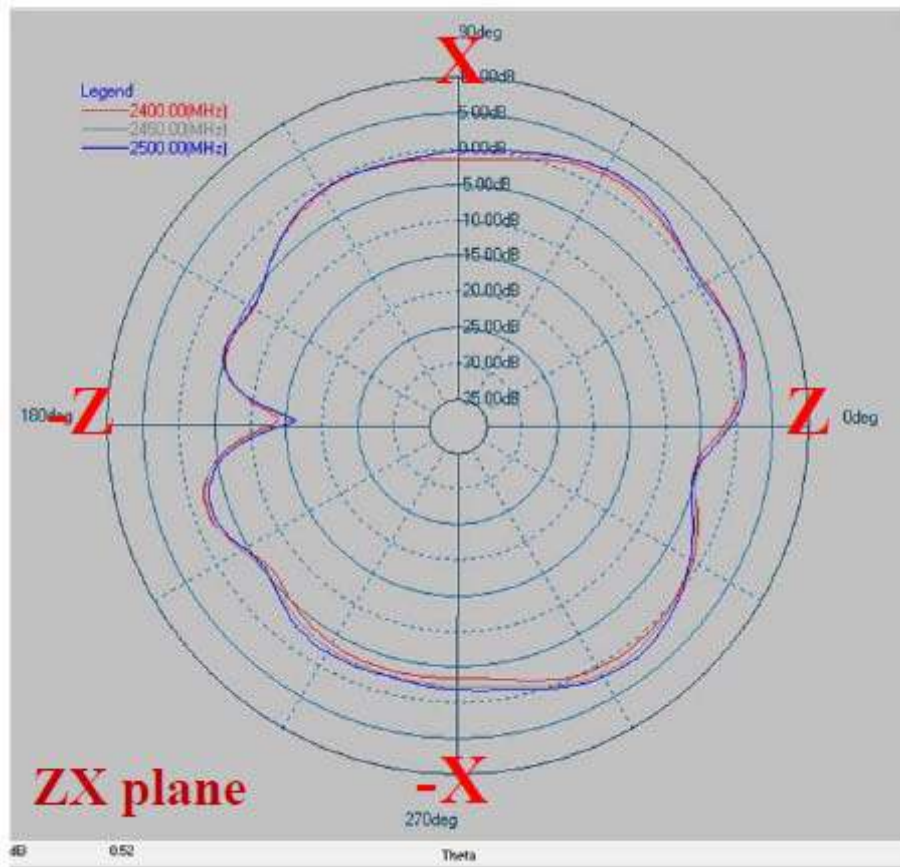
Peak Gain at 2460 MHz : 3.39 dBi

## RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dB



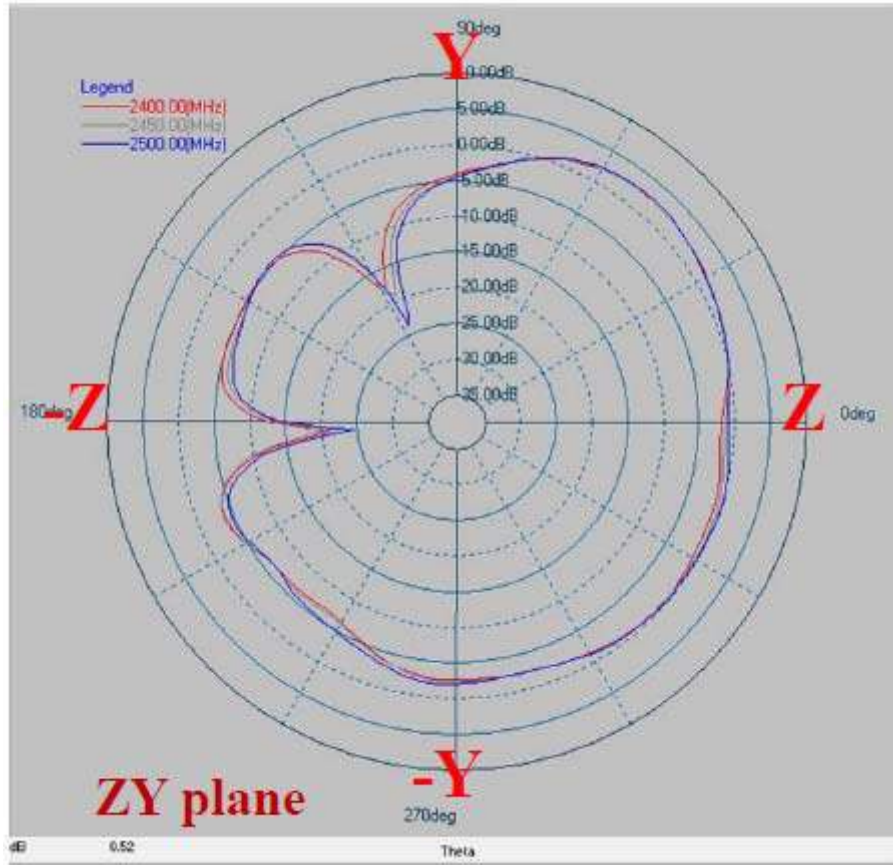
	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	1.98	-1.53
2450	2.39	-1.13
2500	2.76	-0.96



2400~2500 MHz

Phi=90.00deg

Gain . dB

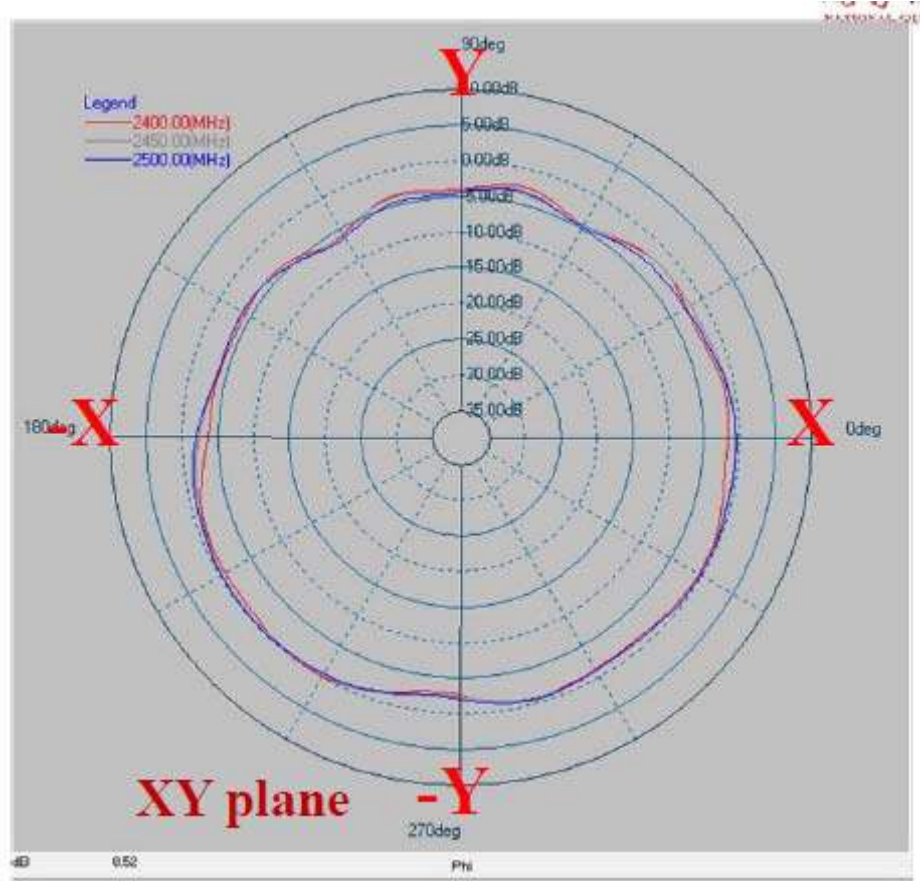


Frequency [MHz]	ZY plane	
	Max Value [dB]	Average [dB]
2400	2.46	-2.25
2450	2.38	-2.16
2500	2.59	-2.04

2400~2500 MHz

Theta=90.00deg

Gain . dB



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	-0.24	-2.26
2450	-0.32	-2.02
2500	-0.23	-2.04