

INPAQ Technology (Suzhou) Co., Ltd.

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No. 11, Ke-Yi St., Chunan
Miaoli 35059
Taiwan, R.O.C.

1.Explanation of part number :

RF	DPA	8709	07	I	M	A	B	3	03
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 87mm, Width 9.4mm	2 digits for cable length e.g.: 07 Cable Length:7.00cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 1:1GHz 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 U:UHF W: WCDMA band P:WPC D:DECT	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 2:Ø 1.32 3:Ø1.13 4:Low Loss Ø1.13 5:Ø0.50 6:RG316 7:Ø1.37 8:RG178 9: Low Loss Ø1.37 A:RG174 B:RG178 單芯線 C:WPC 用 0.3mm D:DECT 用 E : RG405	01~99 series number

2.Electrical Specification :

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Peak Gain	1.65 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	Omni-directional
Impedance	50Ω

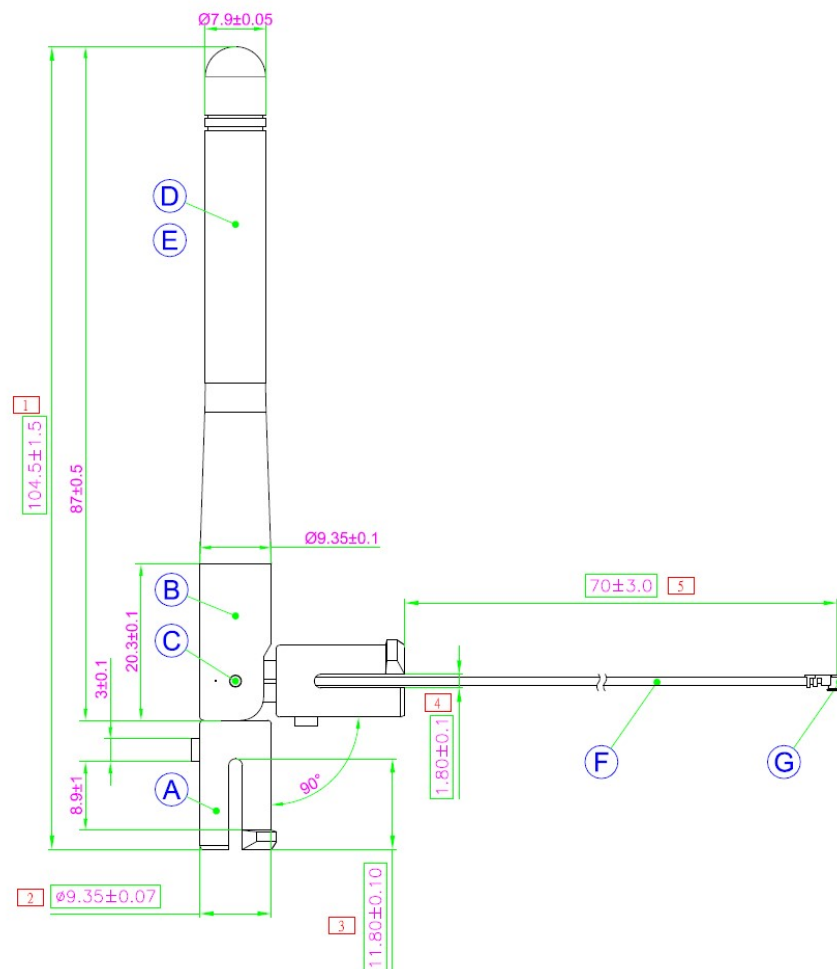
UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A				INPAQ TECHNOLOGY CO., LTD.	
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DRAWN BY : 詹惠雯		CHECKED BY : 詹惠雯			
DESIGNED BY : 黃瑞郎		APPROVED BY : 陳振榮			
TITLE : RFDPA870907IMAB303			DOCUMENT NO.	ENS070008180-000821104042	SPEC REV. A0

3. Antenna Drawing :

ELECTRICAL

Frequency: 2.4GHz
Gain: 2dBi

No.	DESCRIPTION	MAT'L	Color	Q'TY
A	Antenna Down Base	PC+PBT	Black	1
B	Antenna Up Base	PC	Black	1
C	Rivet	POM	Black	2
D	Antenna Cover	TPEE	Black	1
E	Brass Tube	Brass	—	1
F	Coaxial Cable 1.13	—	Black	1
G	IPEX Compatible	—	Glod	1



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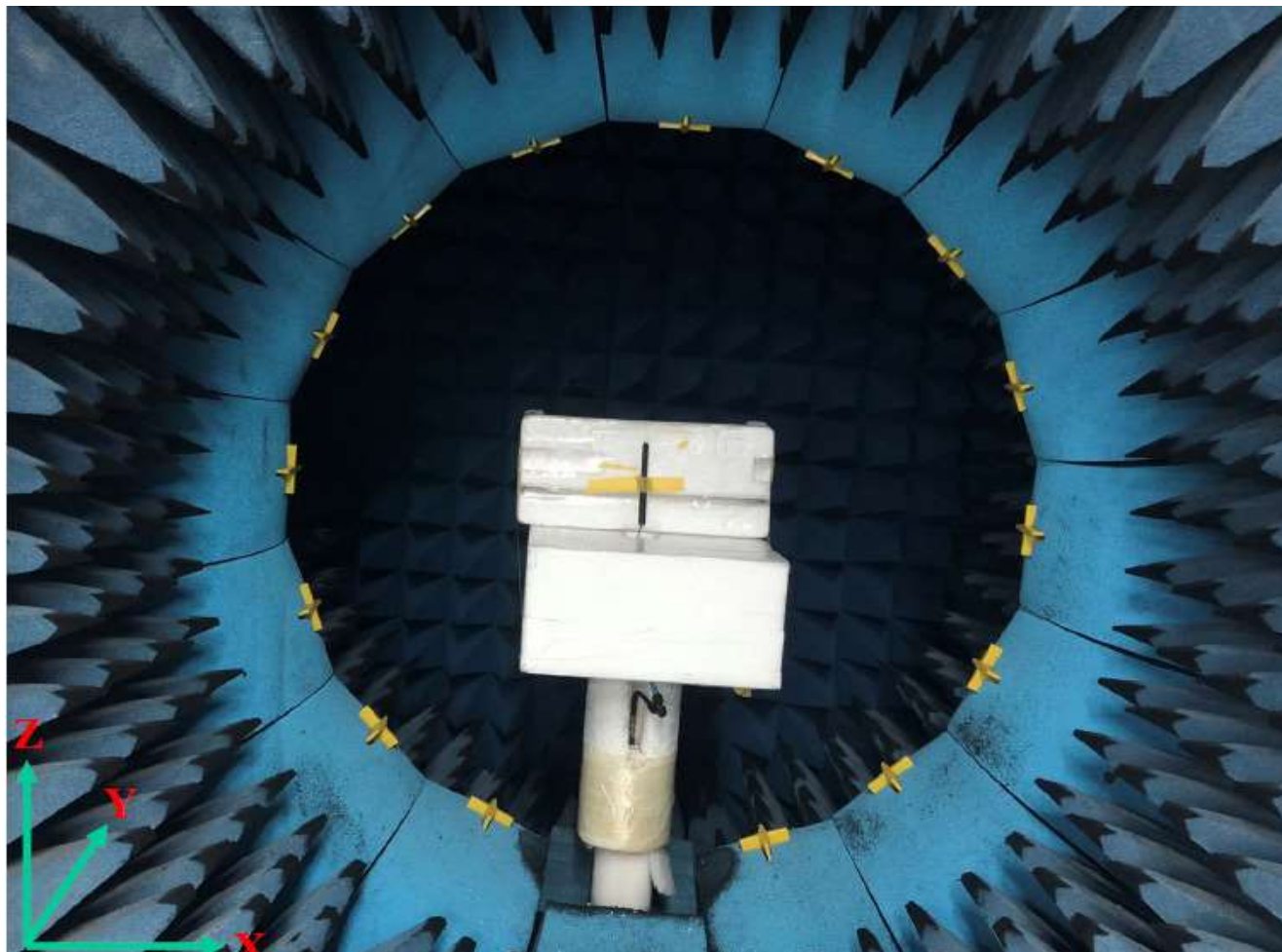
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4. Performance Report :

Test Report

■ Experimental Setup



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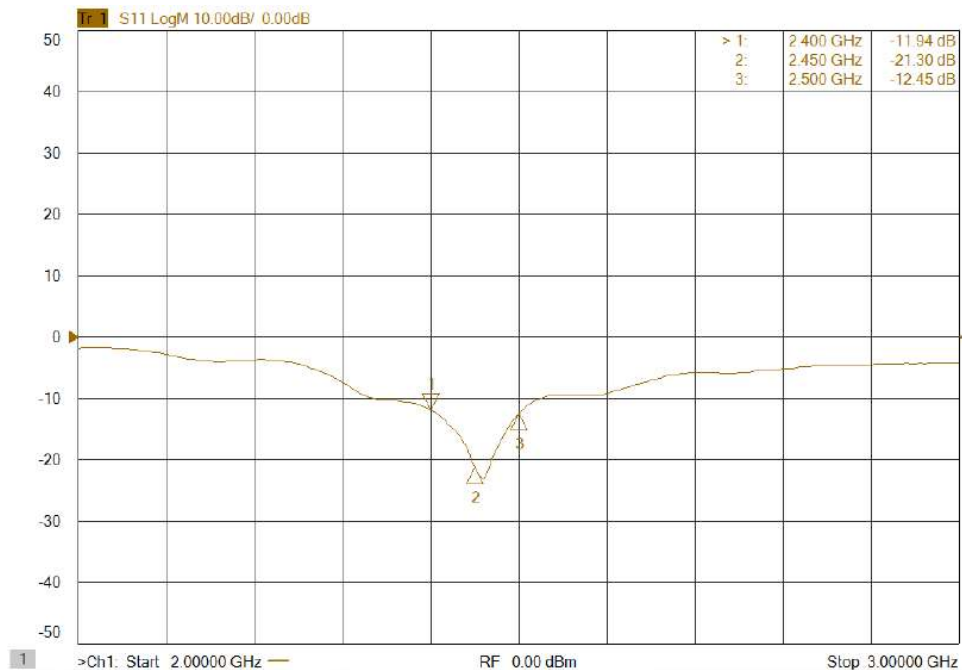
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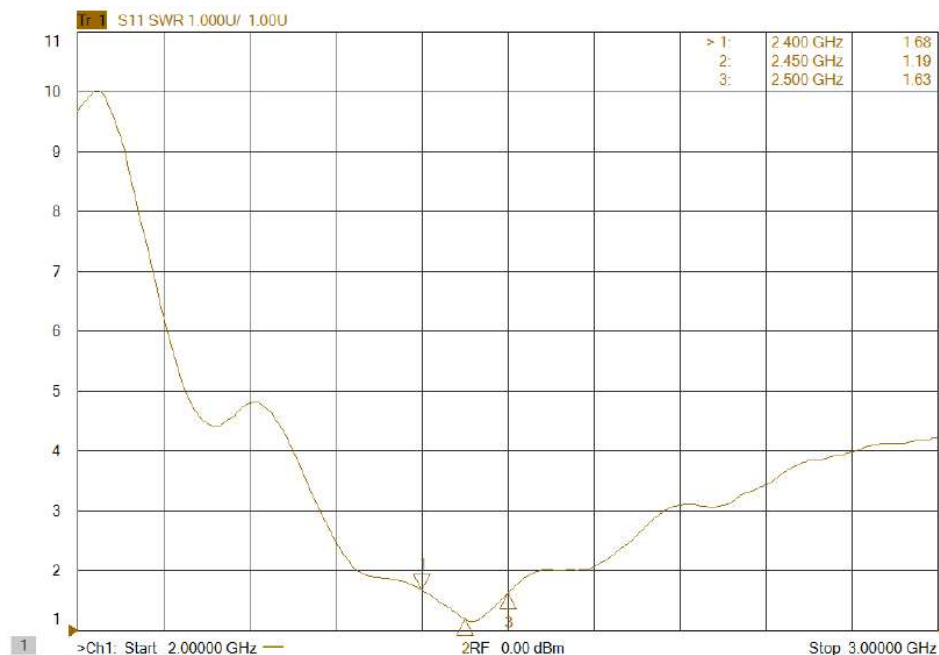
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ELECTRICAL CHARACTERISTICS

Return Loss



VSWR



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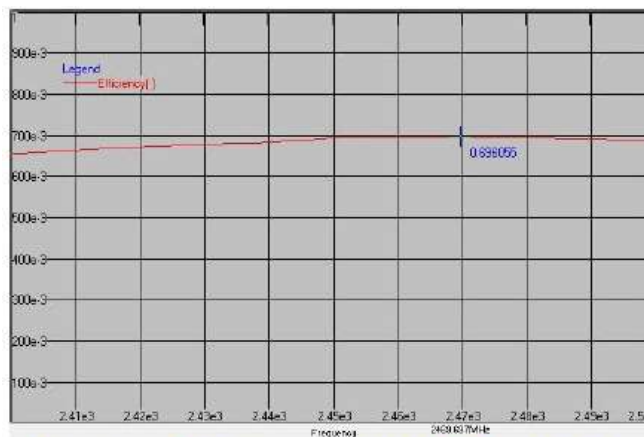
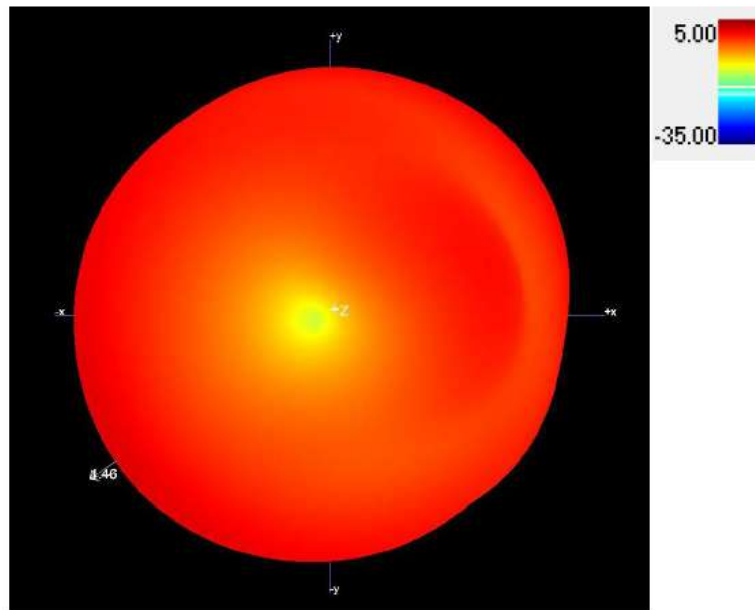
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Antenna Efficiency and Peak Gain

2450 MHz



Maximum Efficiency at 2469 MHz : 69.61%



Maximum Peak Gain at 2489 MHz : 1.65 dBi

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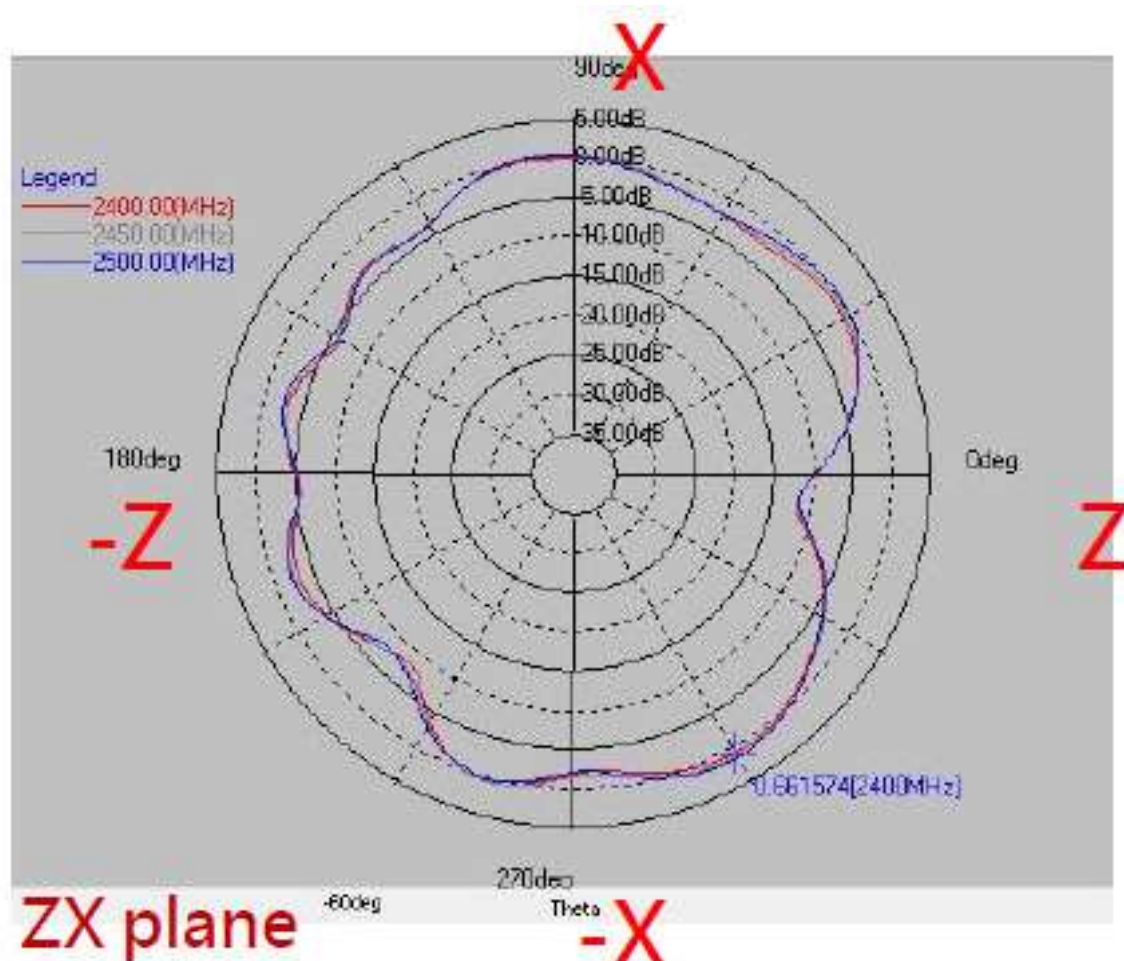
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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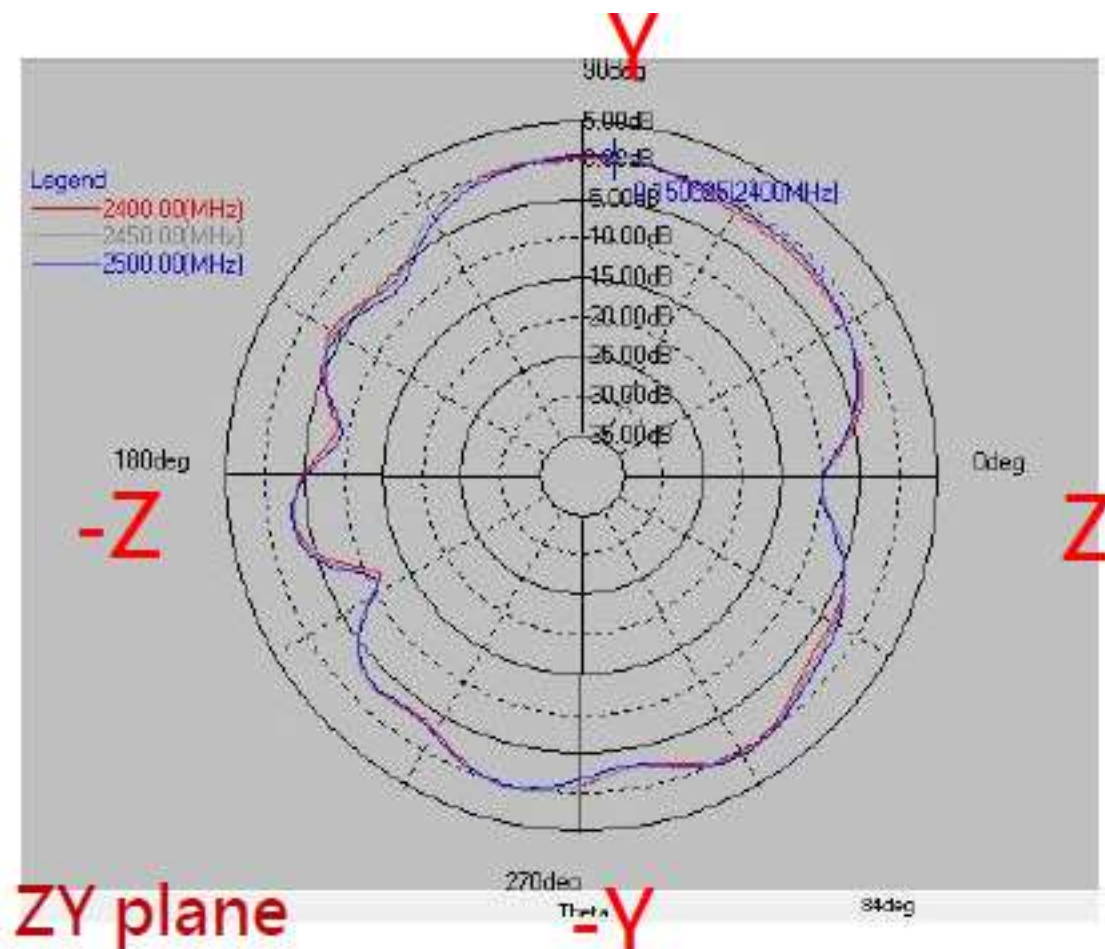
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Y-Z Plane

Phi=90.00deg

Gain . dB



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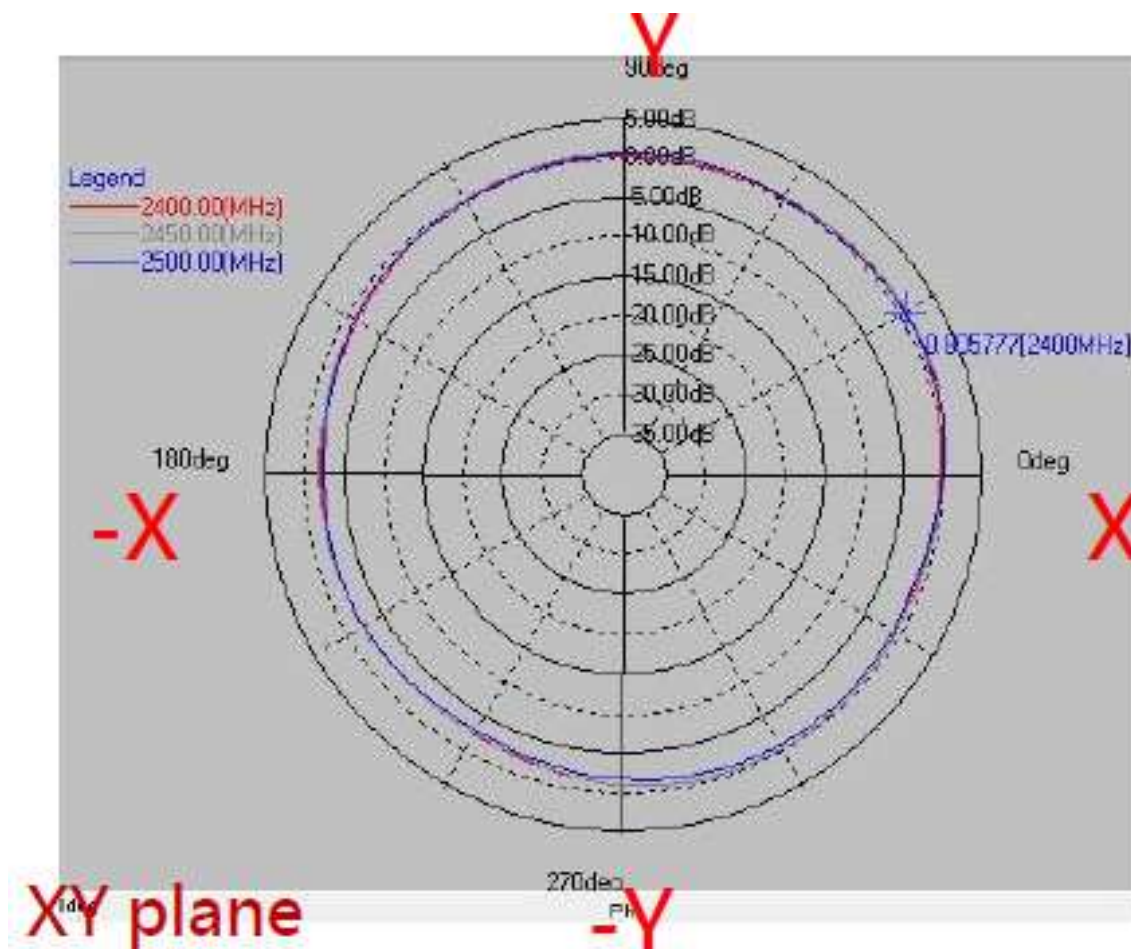
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X-Y Plane

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]
2400	0.66	-2.52	0.15	12.04	0.81	-0.75
2450	1.05	-2.25	0.44	11.30	1.00	-0.58
2500	1.28	-2.21	0.53	11.48	0.82	-0.86

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