

品名：RFPCA302112IMAB301

1. Explanation of part number：

RF	PCA	3021	12	I	M	A	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
RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3021 Length 30.0mm, Width 21.0mm	2 digits for cable length e.g.: 12 Cable Length:12.5 cm	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:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz
Return Loss	-10dB(Max)
Peak Gain	4.60 dBi
Polarization	Linear Vertical
Radiation Pattern	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



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SCALE：N/A

UNIT：mm

DRAWN BY：劉采璇

CHECKED BY：詹惠雯

DESIGNED BY：林育帆

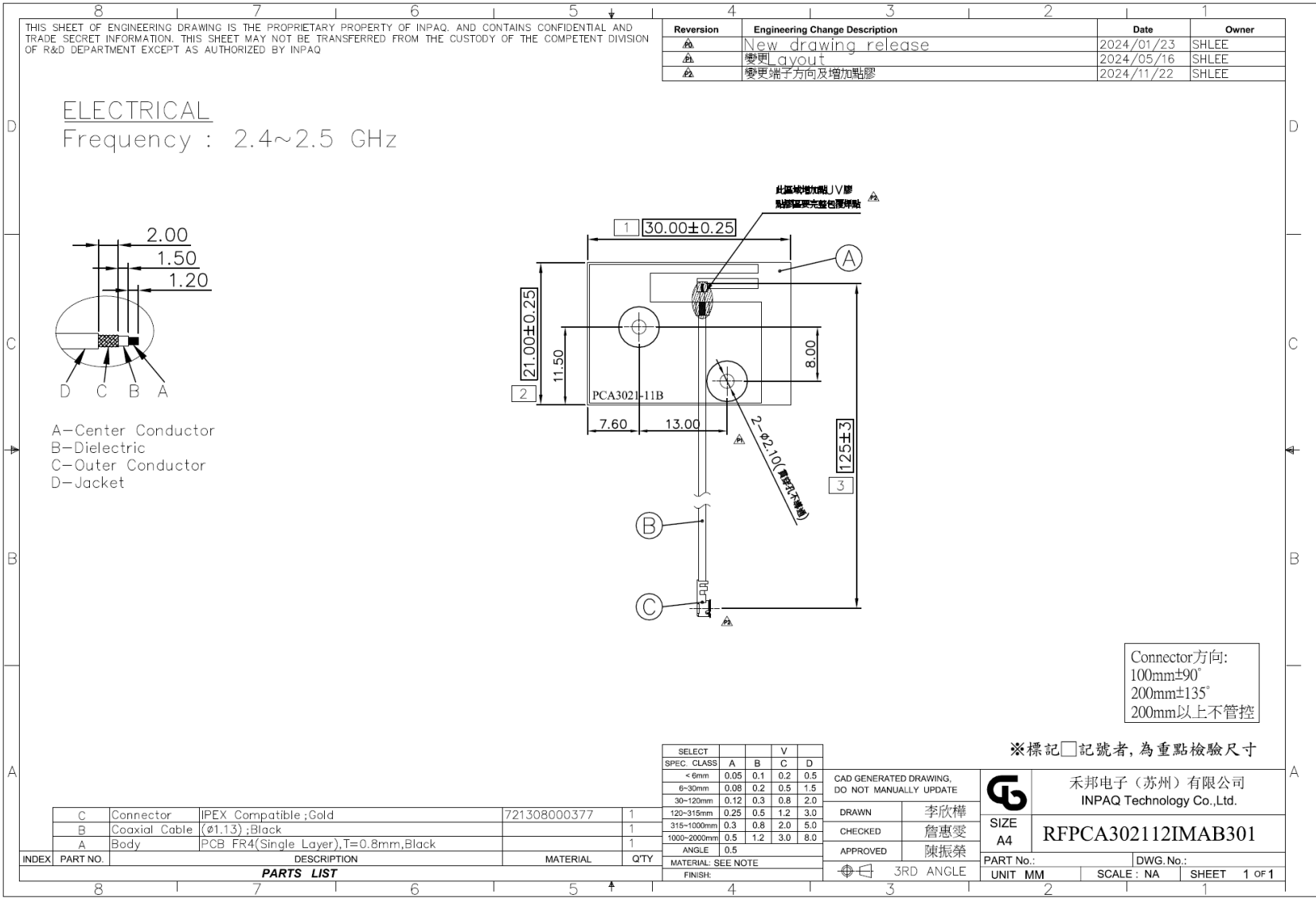
APPROVED BY：陳振榮

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3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = N/A

X.X = N/A

X.XX = N/A

ANGLES = N/A

HOLEDIA = N/A

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠愛

DESIGNED BY : 林育帆

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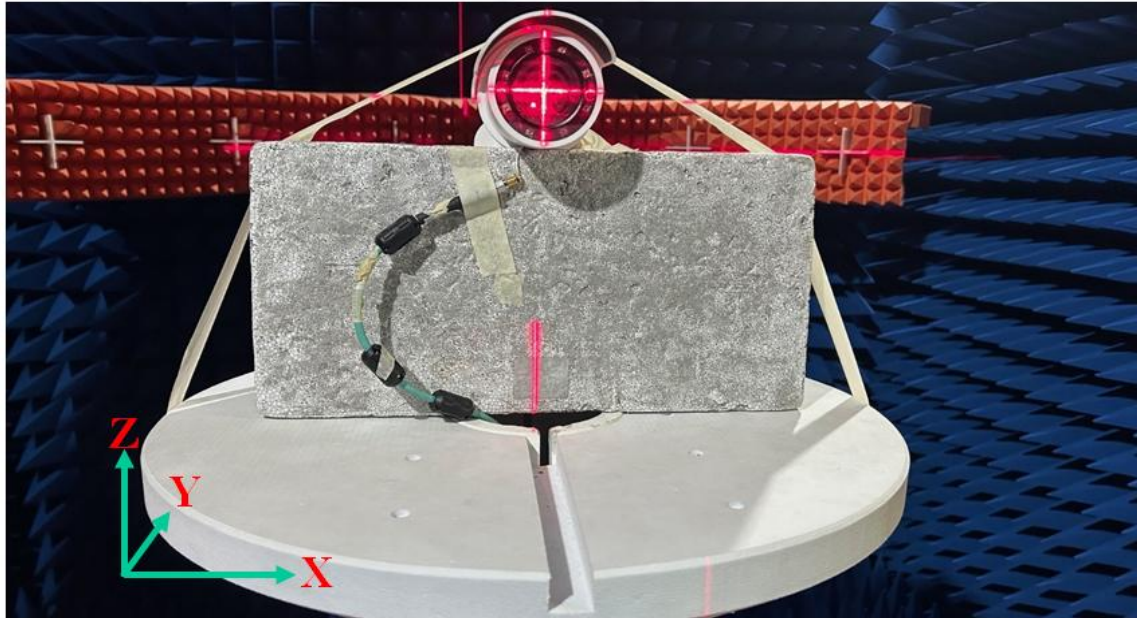
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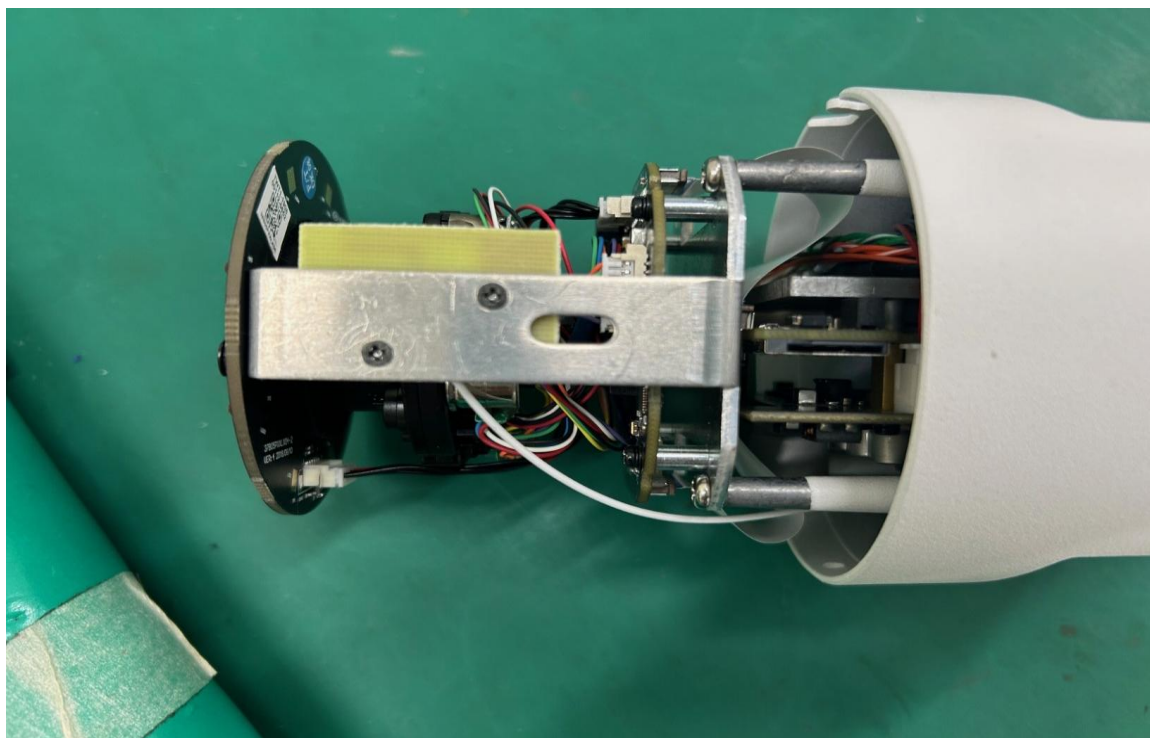
Test Report

■ Experimental Setup



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Antenna Solution Detail



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠雯

DESIGNED BY : 林育帆

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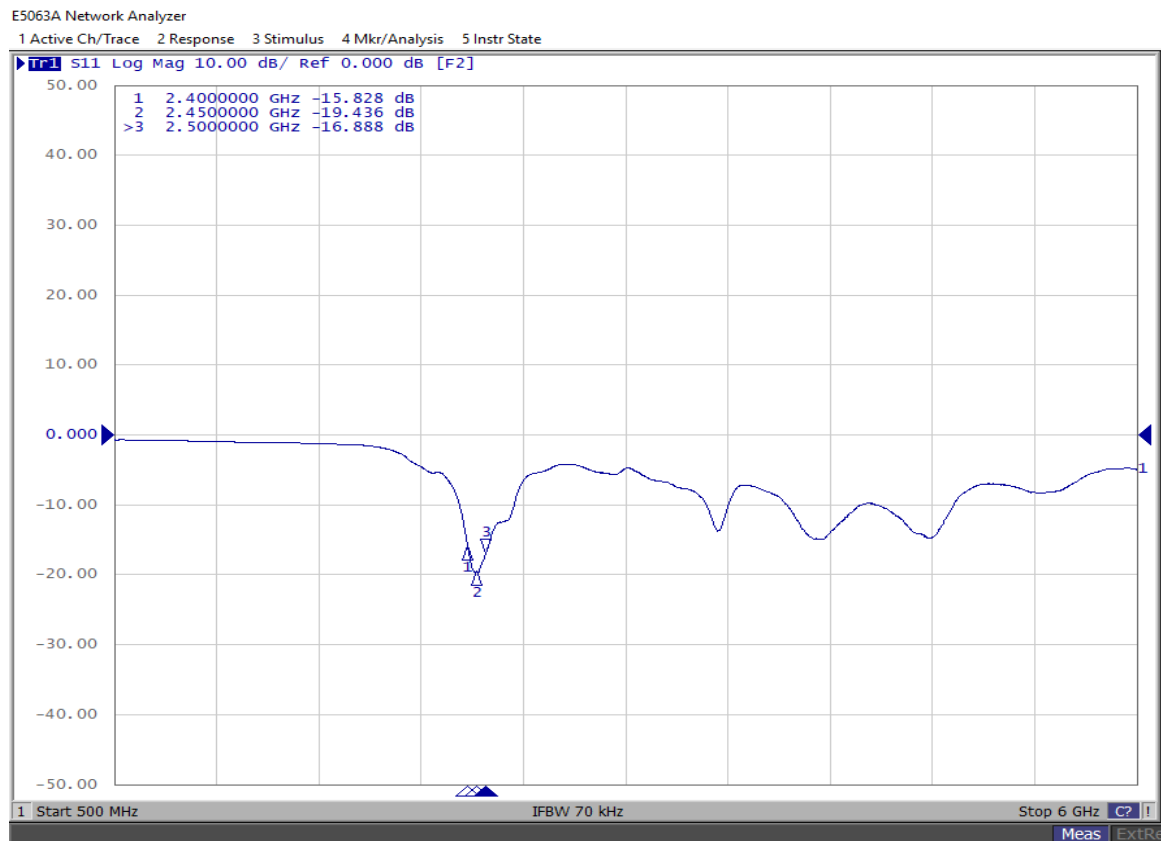
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ELECTRICAL CHARACTERISTICS

Return Loss



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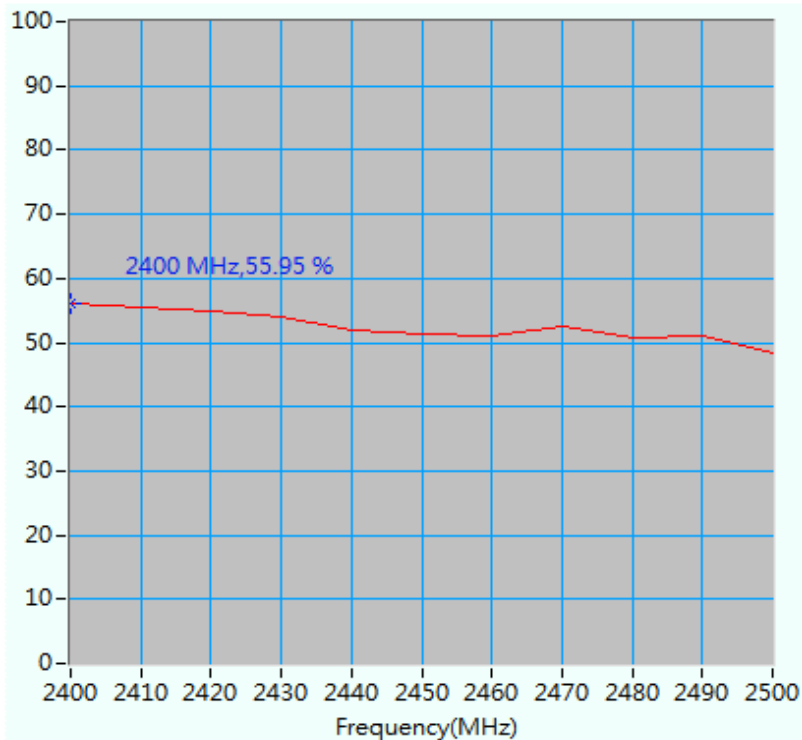
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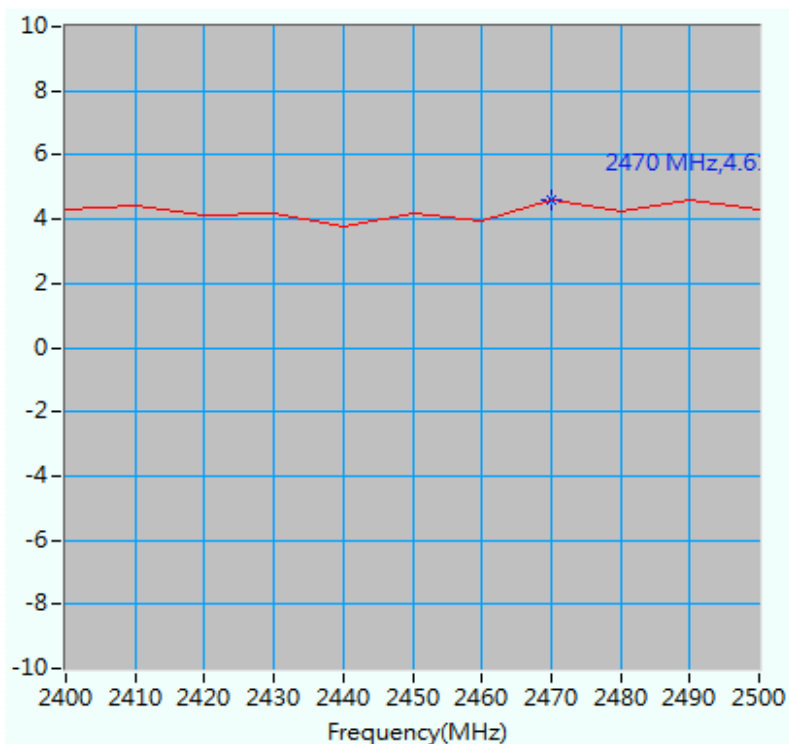
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Antenna Efficiency and Peak Gain



Maximum Efficiency at 5200 MHz : 55.95 %



Maximum Peak Gain at 2470 MHz : 4.60 dBi

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ANGLES = N/A HOLEDIA = N/A



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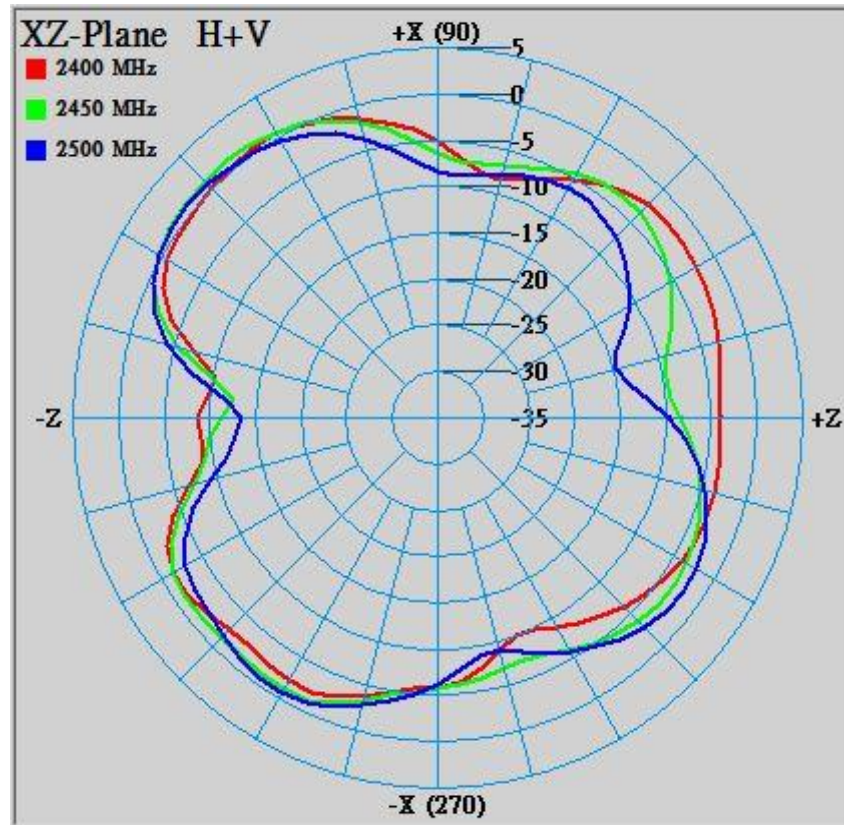
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2D Radiation Patterns

Phi=0.00deg

Gain . dB



UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



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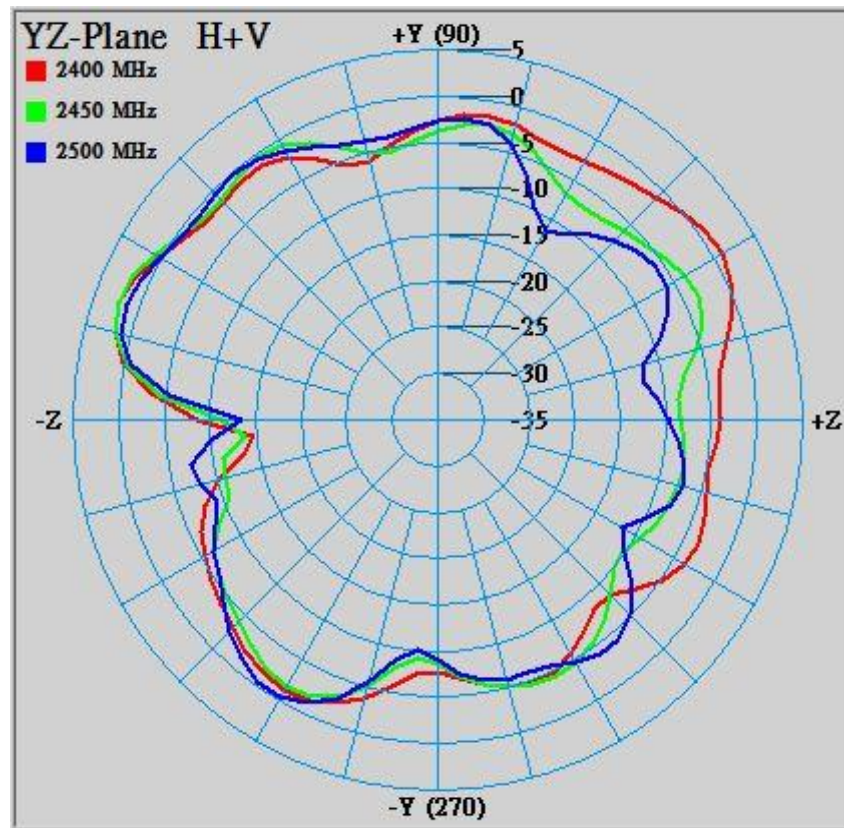
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Phi=90.00deg

Gain . dB



UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



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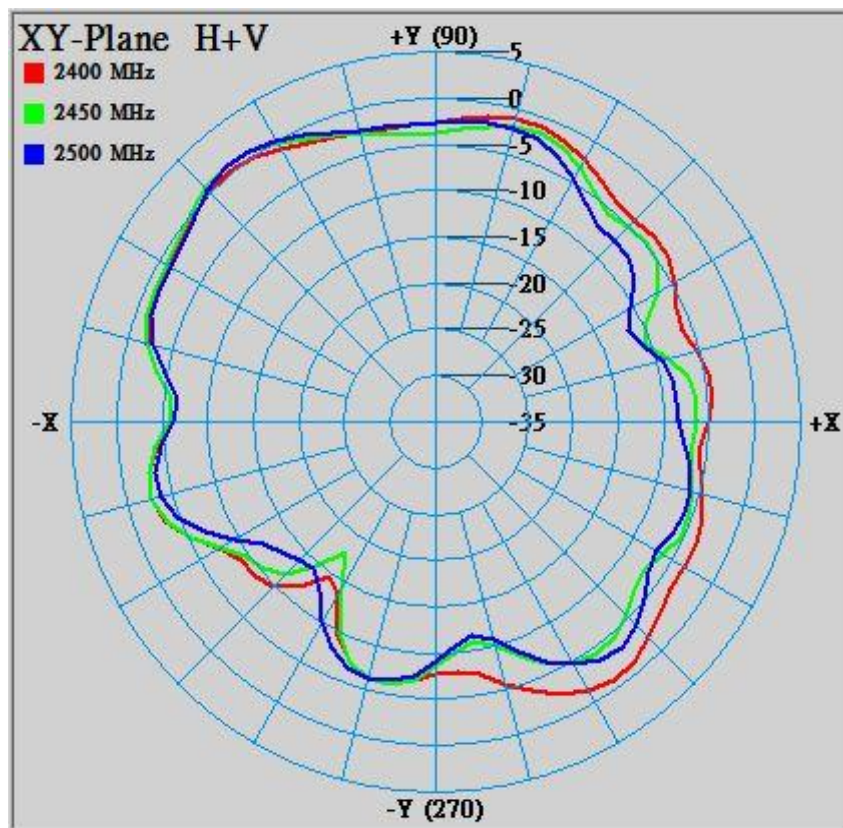
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Theta=90.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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UNIT : mm

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