

APPROVAL SHEET

Dipole Antenna

5.15~5.85 GHz Working Frequency

P/N: RFDPA161507IM5B901

Customer : 威強電工業電腦股份有限公司

Customer 's Part No. :

Approval No. :

Issue Date :

佳邦科技股份有限公司 INPAQ TECHNOLOGY CO., LTD.

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電話號碼 Tel : 03 475 8711



History List

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品名：RFDPA161507IM5B901

1. Explanation of part number：

RF	DPA	1615	07	I	M	5	B	9	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	Dipole Antenna	Per 2 digits of length, width e.g.: 1614 Length 160.0mm, Width140.0mm	2 digits for cable length e.g.:20 5G1 : Length 17.5cm 5G2 : Length 17.5cm 2G1 : Length 20.0cm 2G2 : Length 13.0cm BT : Length 7.0cm	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 6: 6GHz 5: 5GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.X GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:Ø 0.81 2:Ø 1.32 3:Ø 1.13 4:Low Loss Ø 1.13 5:Ø 0.5 6:RG316 7: Ø 1.37 8:RG178 9:Low Loss Ø 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	5.15 ~ 5.85 GHz
Gain	3.49 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-20℃ ~ +65℃
Cable Loss	5GHz ≤ 0.25 dB

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.

SCALE：N/A

UNIT：mm

DRAWN BY：邱瑩鈺

CHECKED BY：詹惠雯

DESIGNED BY：王章程

APPROVED BY：陳振榮

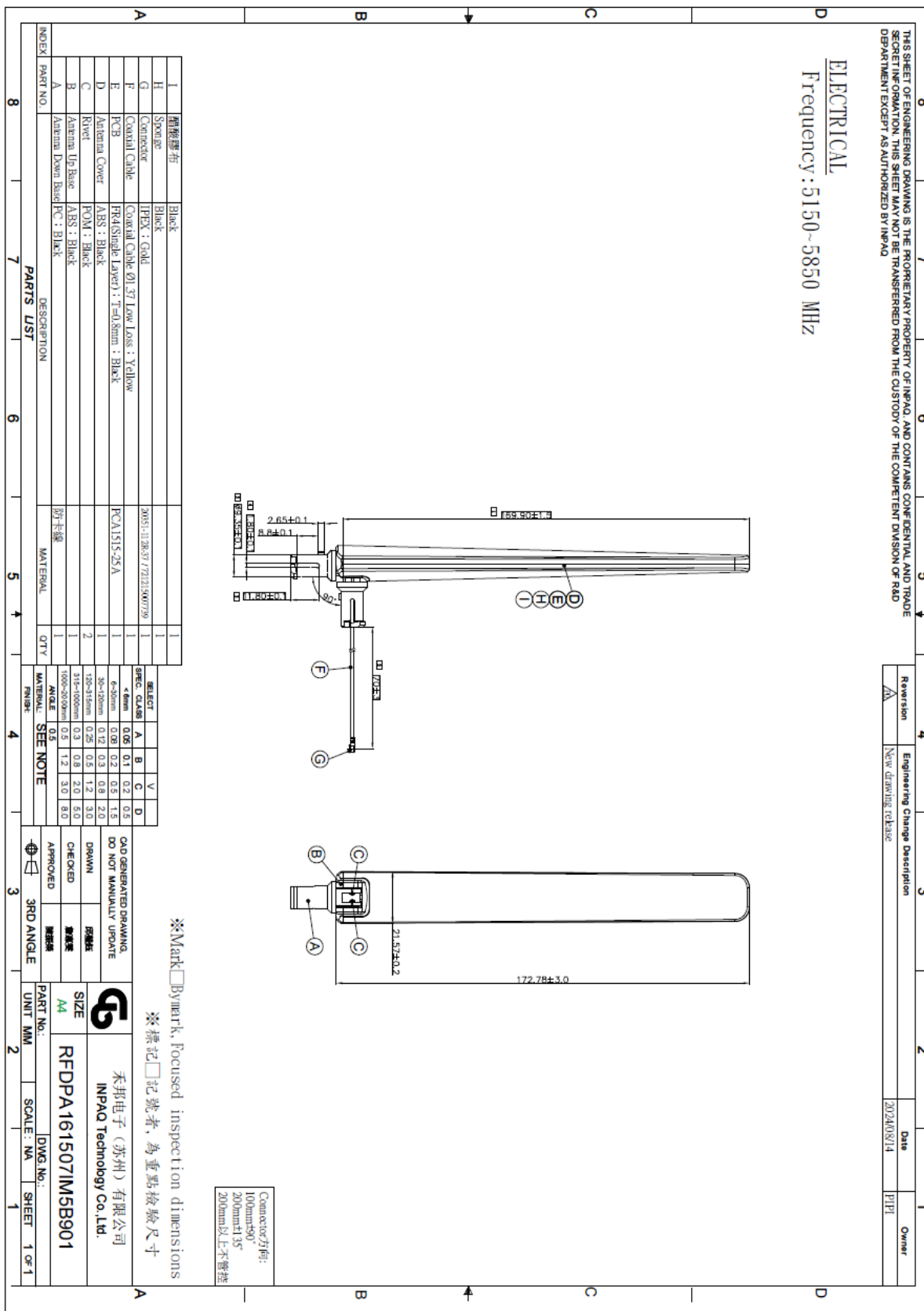
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3. Drawing :



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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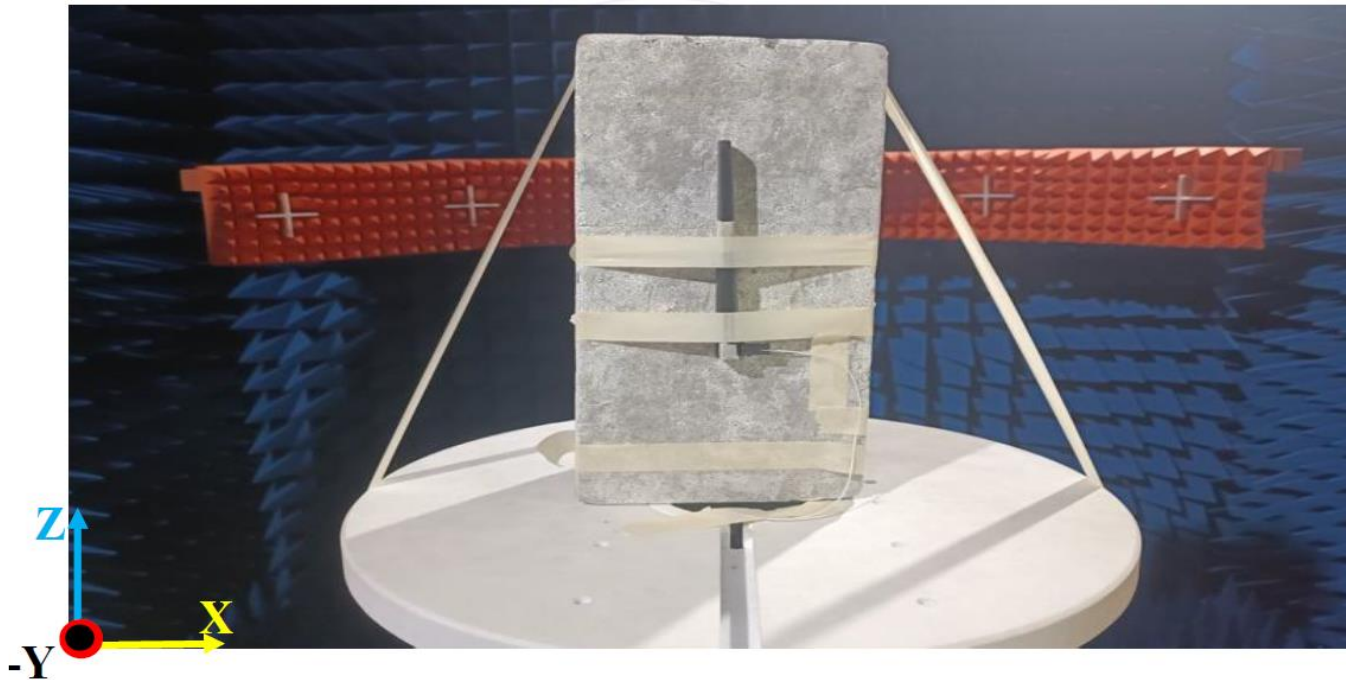
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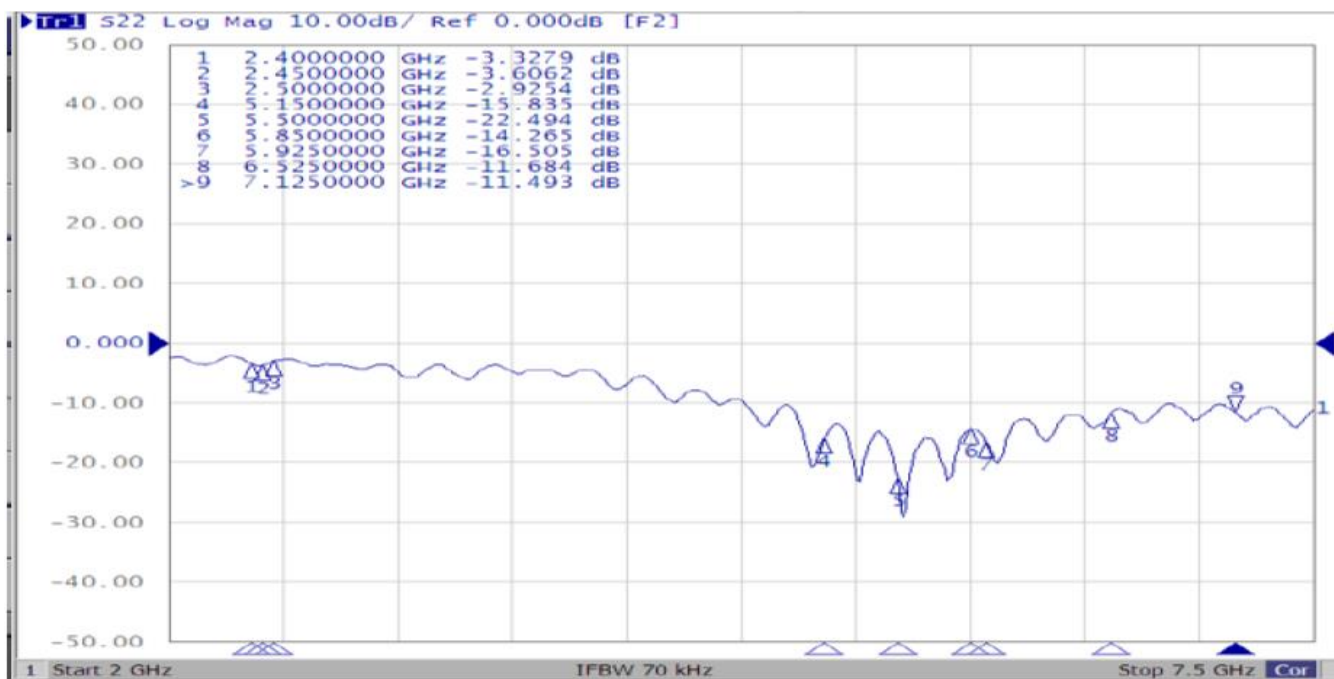
4. Performance Report :

Test Report**Experimental Setup**

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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ELECTRICAL CHARACTERISTICS

S-parameter



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



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SCALE : N/A

UNIT : mm

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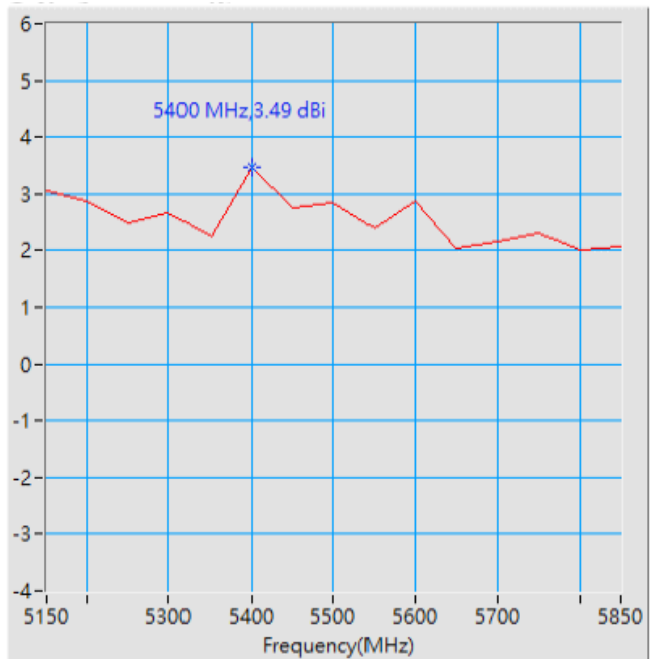
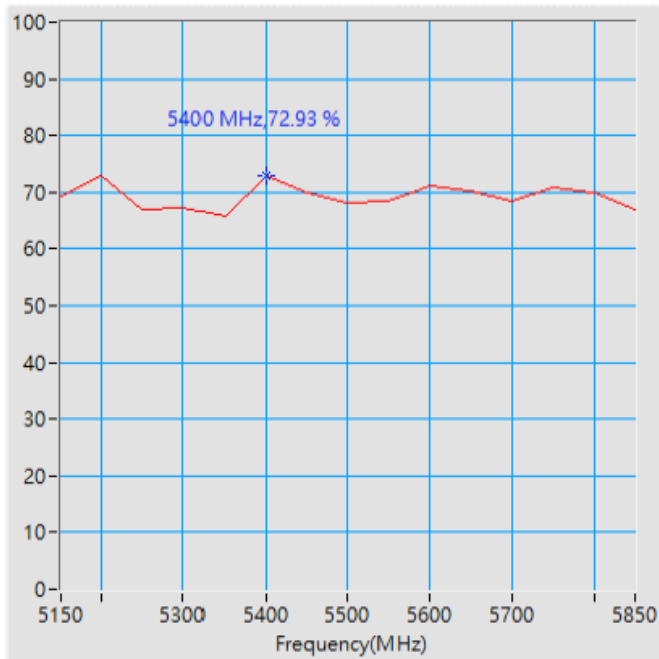
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■ Antenna Efficiency and Peak Gain

(5150 ~ 5850) MHz



Maximum Efficiency at 5400 MHz : 72.93 % Maximum Peak Gain at 5400 MHz : 3.49 dBi

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



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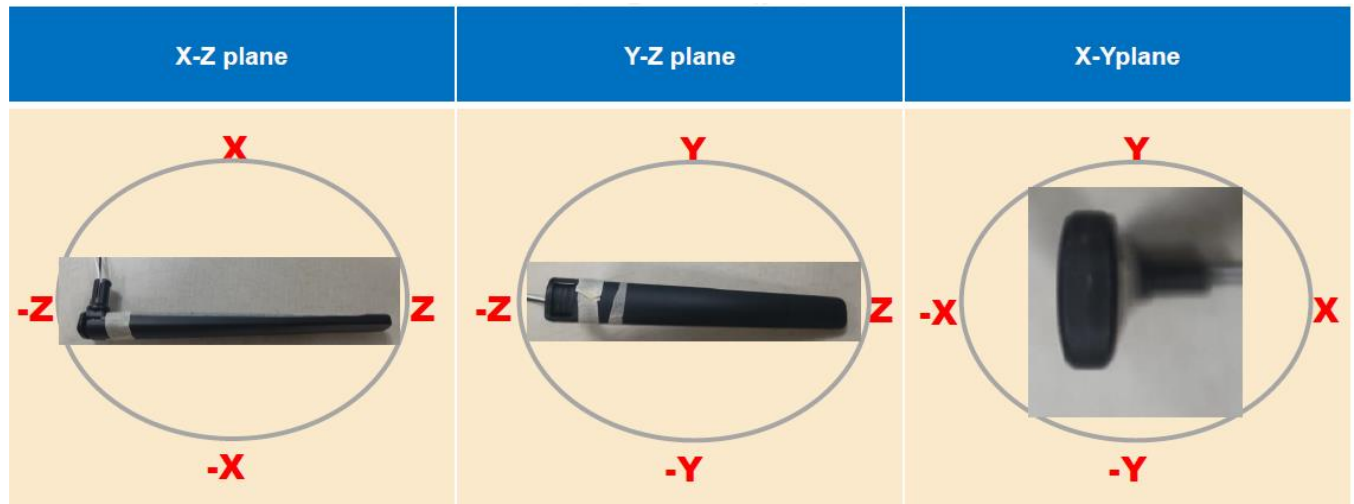
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■ 3 Views of antenna & 2D Radiation Patterns



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



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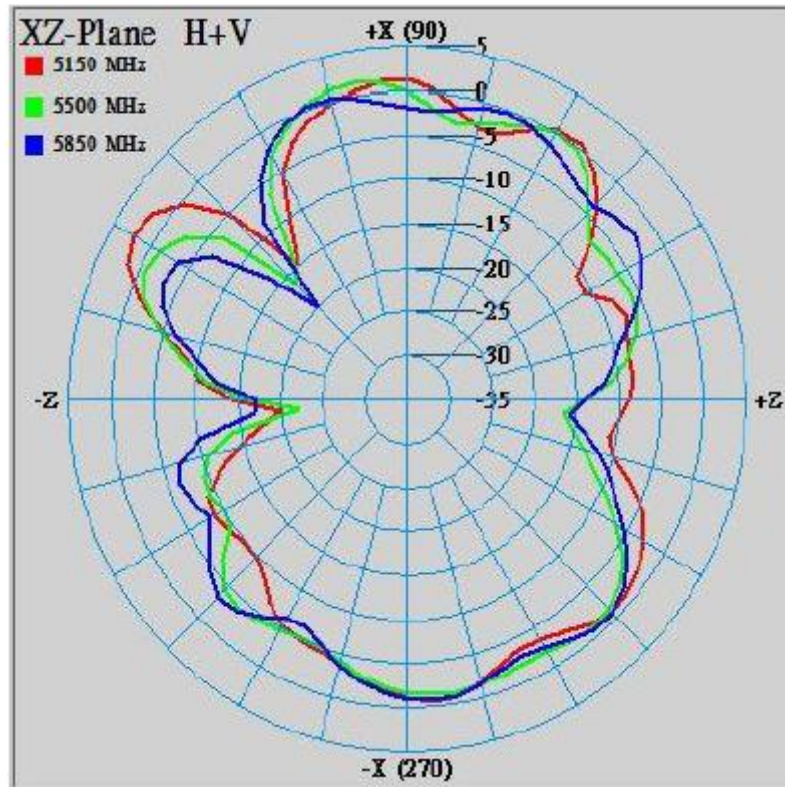
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RADIATION PATTERN**(5150 ~ 5850) MHz****X-Z Plane
Phi=0.00deg****Gain . dB**

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

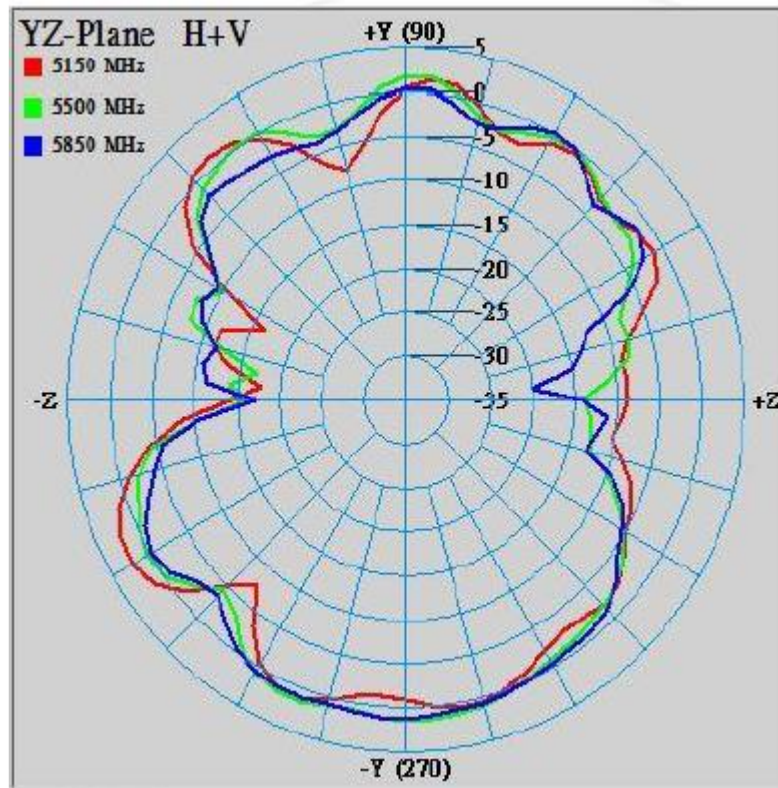
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Y-Z Plane
Phi=90.00deg

Gain . dB



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



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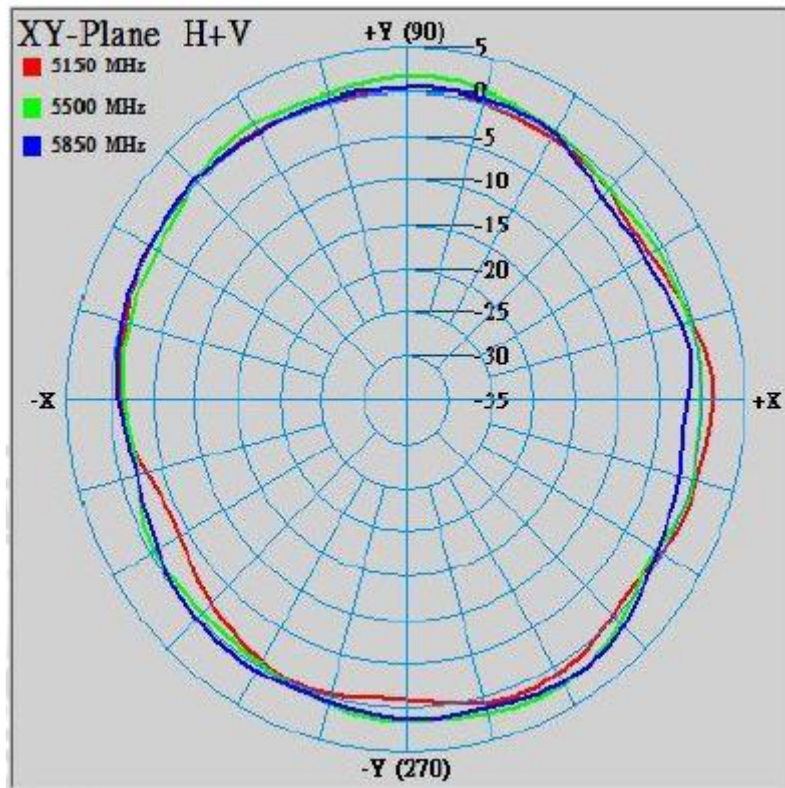
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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	2.32	-3.16	2.32	-2.05	1.24	-0.38
5500	1.28	-3.58	1.78	-1.91	2.31	0.25
5850	0.44	-3.68	1.30	-2.29	2.02	-0.06

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