

品名：RFFPA494517EM5B901

History List

[illegible]

品名：RFFPA494517EM5B901

1. Explanation of part number：

RF	FPA	4945	17	E	M	5	B	9	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	FPC Antenna	Per 2 digits of length, width e.g.: 2813 Length 28mm, Width 13.1mm	2 digits for cable length e.g.: 12 Length 12.5cm	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: During Test X: Pile Run	0:None 1:∅ 0.81 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	5150~5925 MHz
Return Loss	-10 dB(Max)
Gain(peak)	8.37 dBi
VSWR	2.0(Max)
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20℃ ~ +65℃

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：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

APPROVED BY：陳振榮

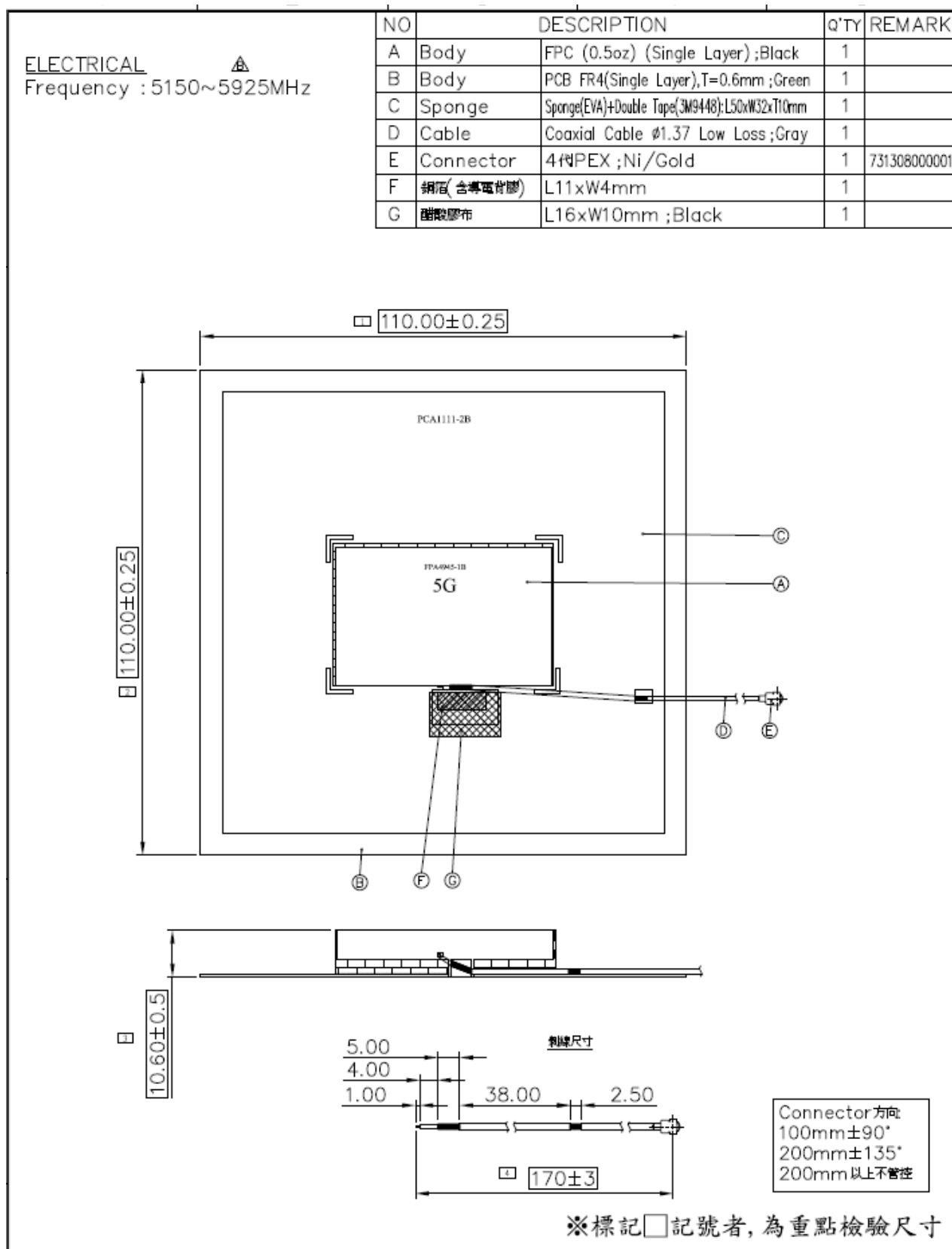
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3. Antenna Drawing :



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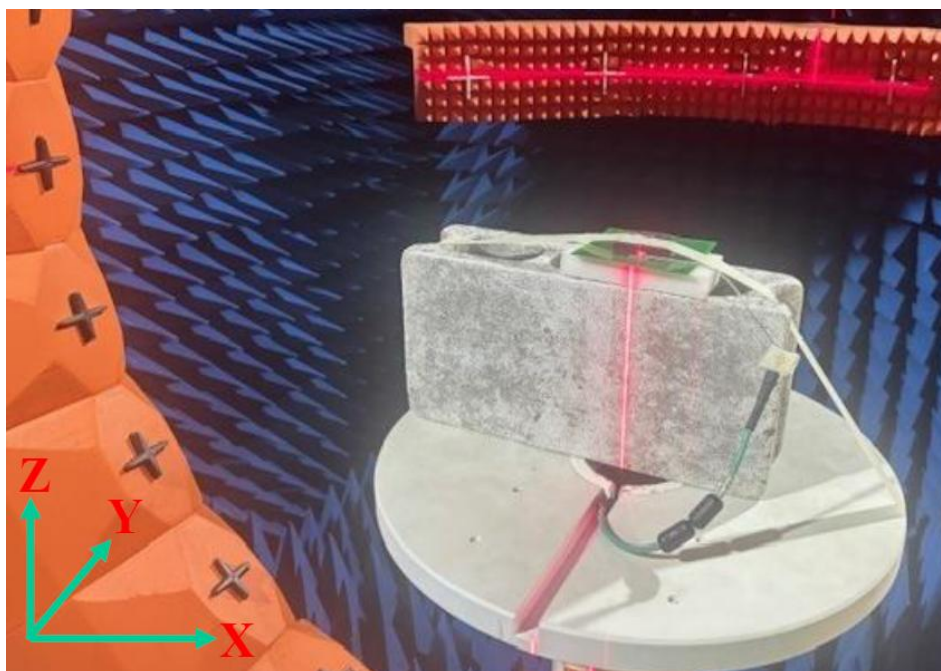
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4. Performance Report :

Test Report

■ Experimental Setup



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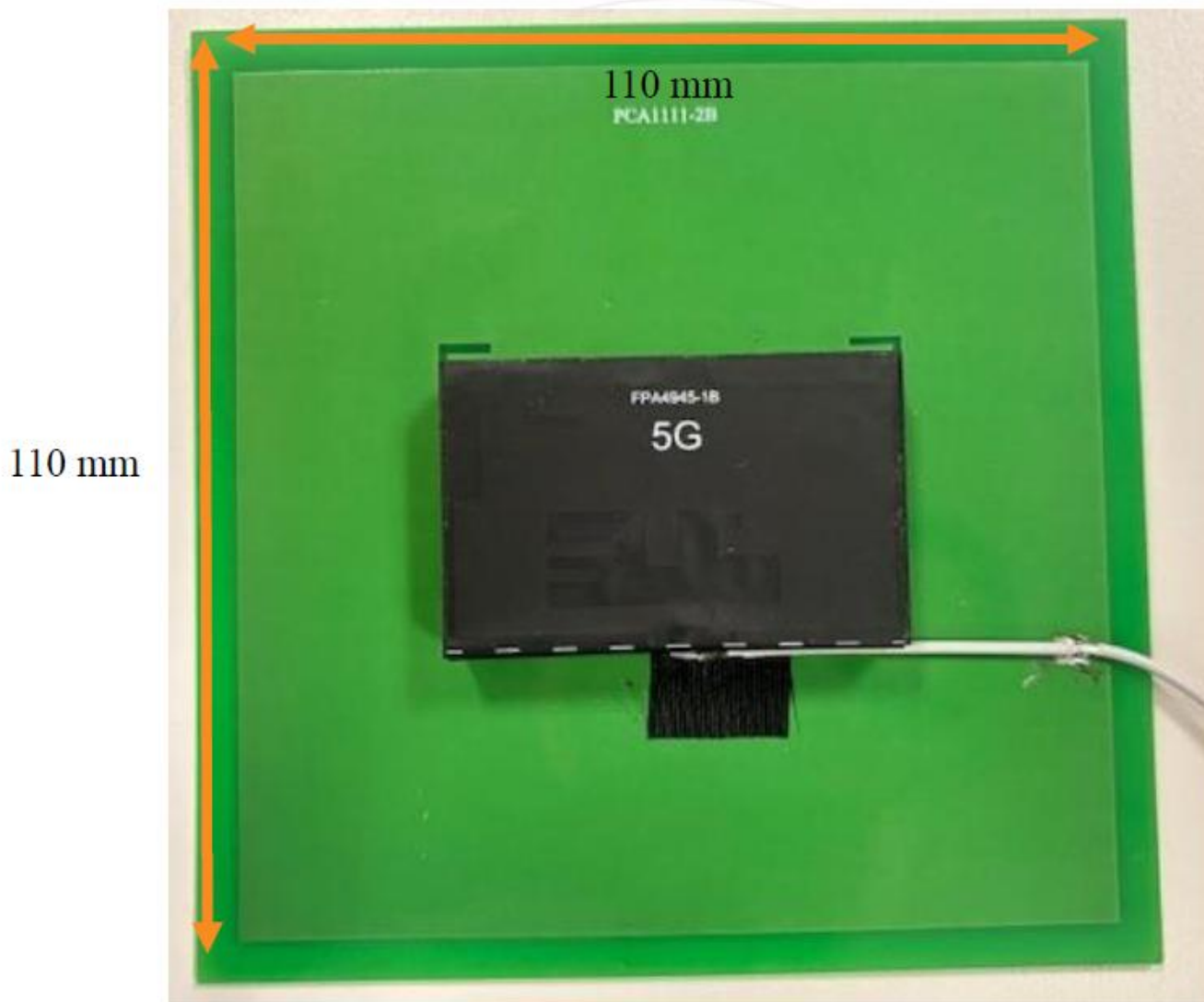
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■ Antenna Solution Detail



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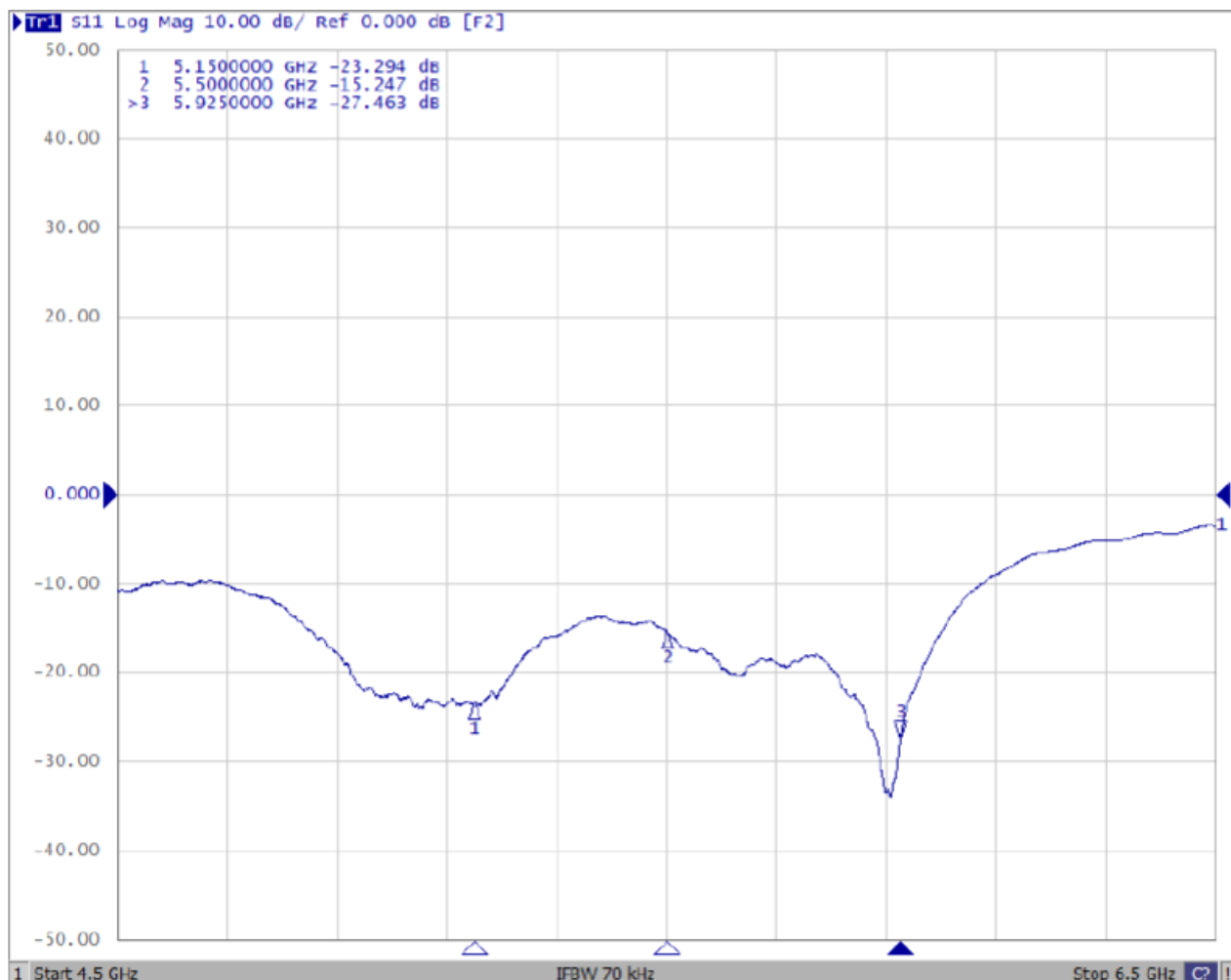
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ELECTRICAL CHARACTERISTICS

Return Loss



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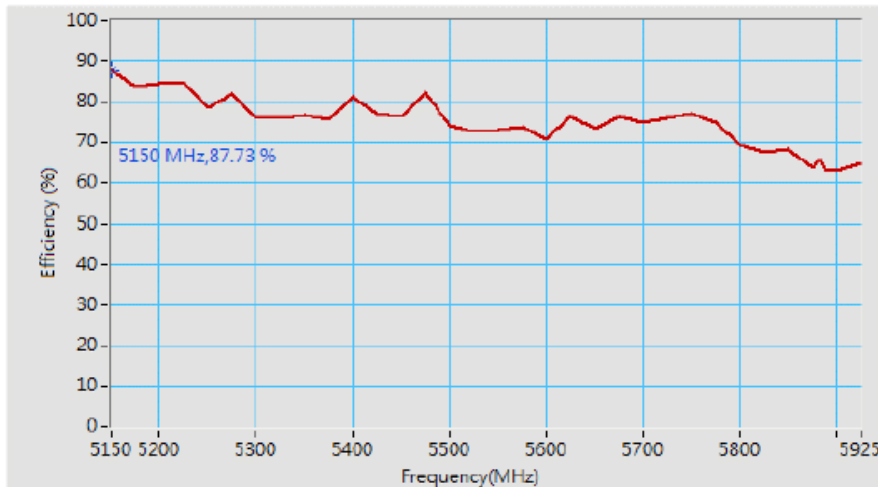
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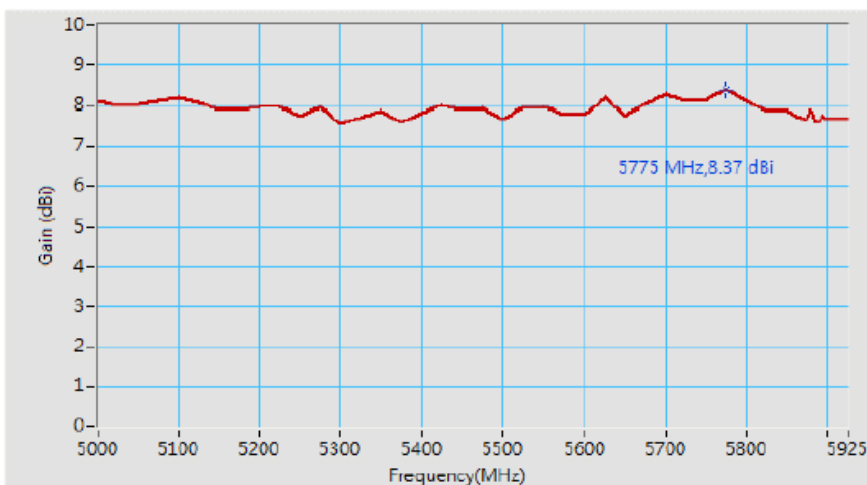
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Antenna Efficiency & Peak Gain

5150~5850 MHz



Maximum Efficiency at 5150 MHz : 87.73 %



Maximum Peak Gain at 5775 MHz : 8.37 dBi

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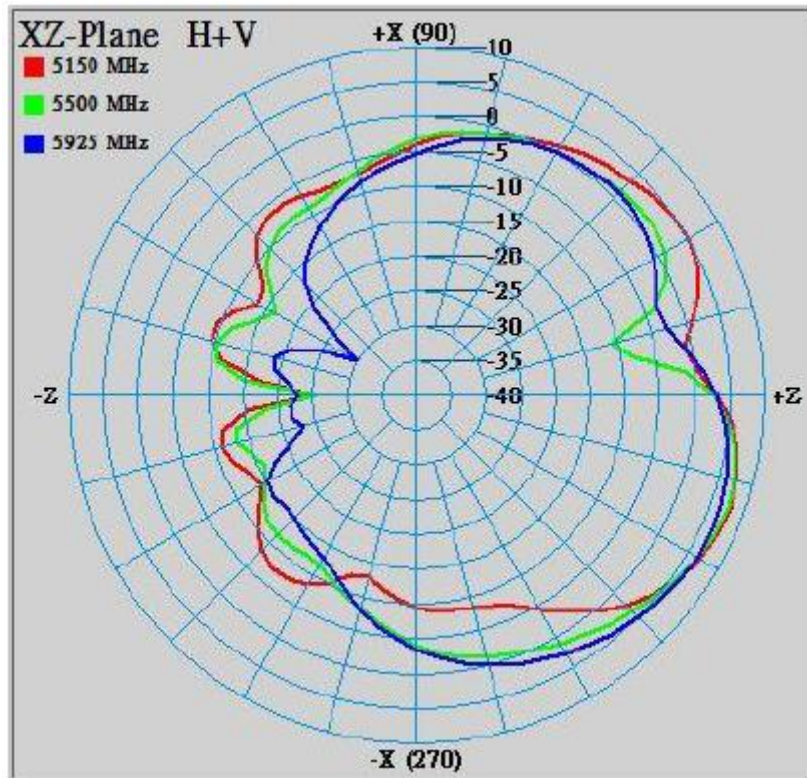
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RADIATION PATTERN

5150~5850 MHz

Phi=0.00deg

Gain . dBi



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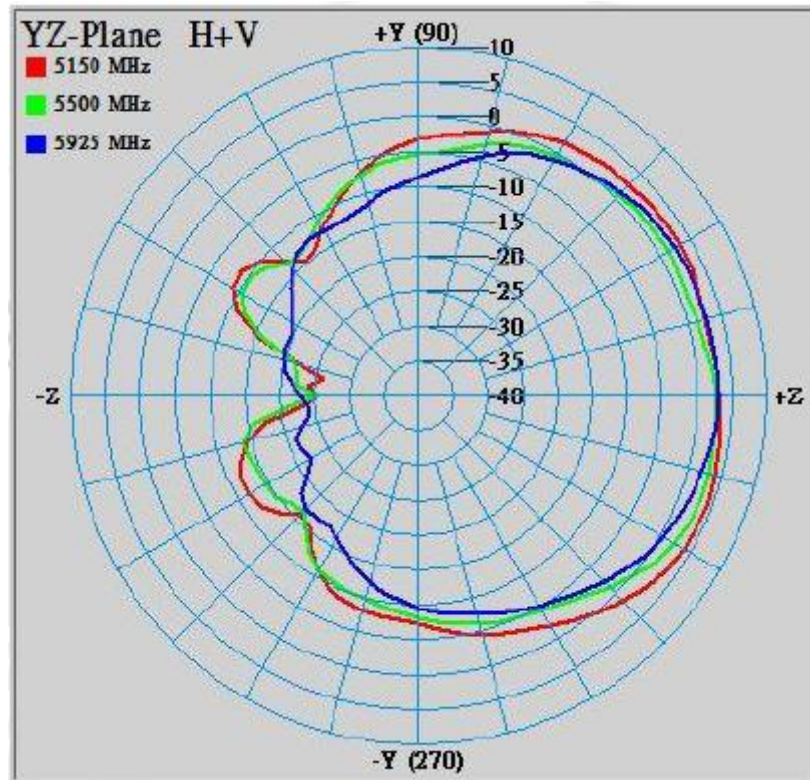
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Phi=90.00deg

Gain . dBi



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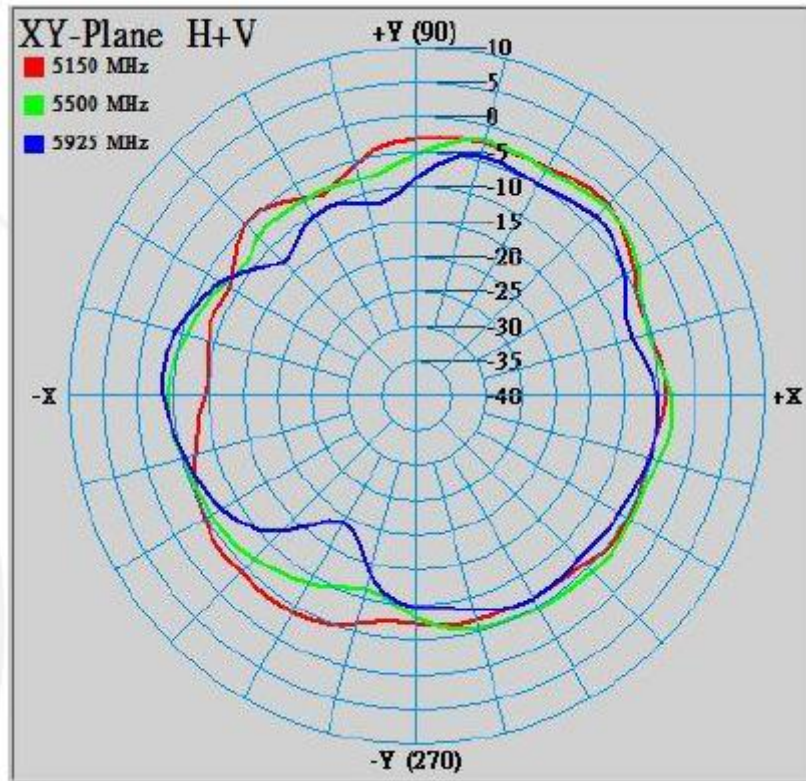
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Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	7.84	0.29	4.34	-0.88	-1.17	-4.93
5500	7.55	-0.21	3.15	-2.48	-1.49	-5.04
5925	6.72	-0.27	3.14	-2.74	-3.32	-6.81

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