

APPROVAL SHEET

FPC Antenna

2.4 ~2.5GHz Working Frequency

P/N: RFFPA301808IMAB301

Customer : Primax Electronics Ltd.

Customer 's Part No. : 690800024600

Production : 禾邦电子（苏州）有限公司
INPAQ TECHNOLOGY(SUZHOU) CO., LTD

Address : 中國江苏省无锡市锡山区安泰一路81号
No.81, Antai 1st Road, Xishan District, Wuxi, Jiangsu, China

[illegible]

品名：RFFPA301808IMAB301

1. Explanation of part number：

RF	FPA	3018	08	I	M	A	B	3	01
Type Code	Product Code	FPCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	FPA: FPCB Antenna	Per 2 digits of length, width e.g.: 3018 Length 30mm, Width 18mm	2 digits for cable length e.g.: 08 Cable Length:8cm	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 ~ 2.5GHz (Note-1)
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	1.35 dBi
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
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



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：劉采璇

CHECKED BY：詹惠雯

DESIGNED BY：林育帆

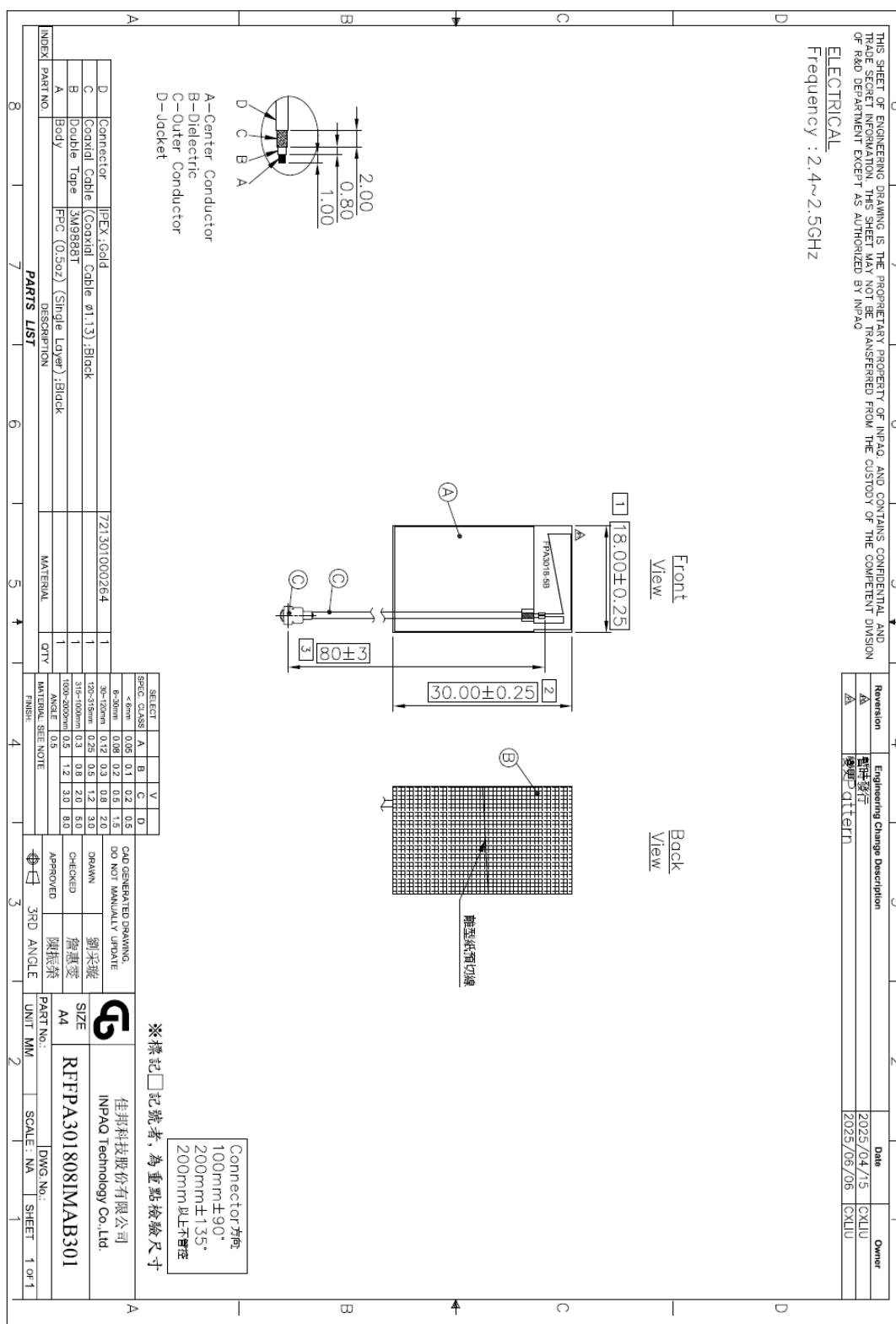
APPROVED BY：陳振榮

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3. Antenna Drawing :



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SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY: 詹惠雯

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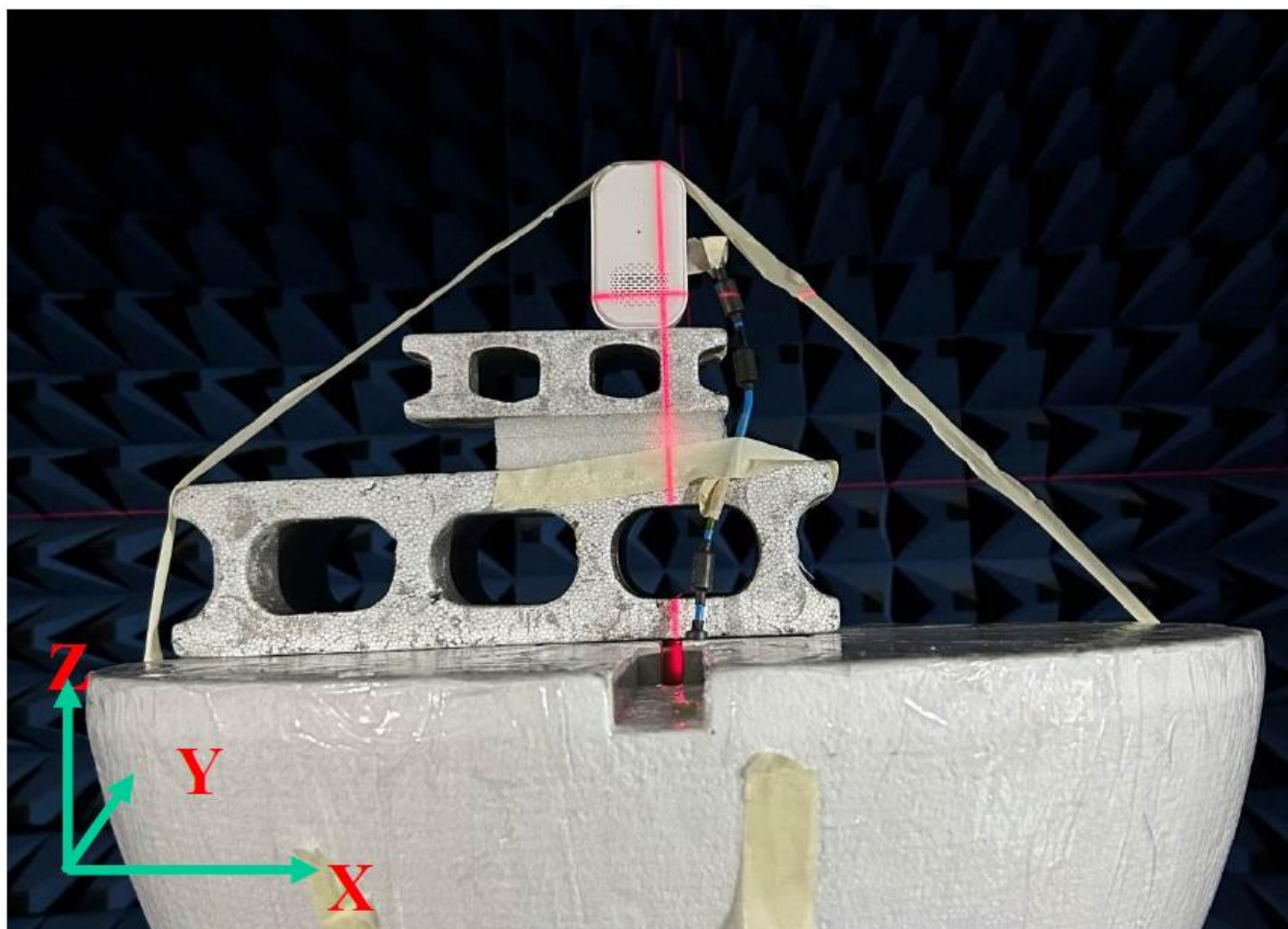
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4. Performance Report :

Test Report

■ Experimental Setup



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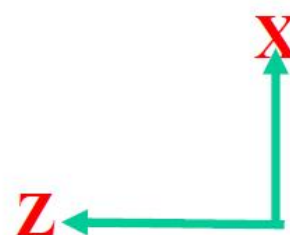
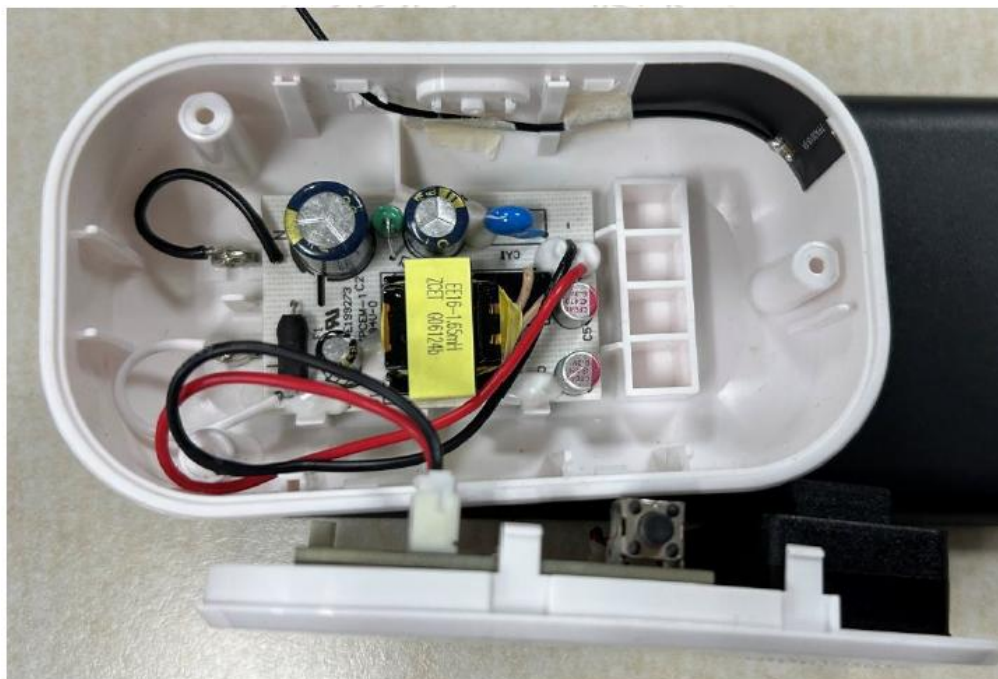
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■ Antenna Solution Detail



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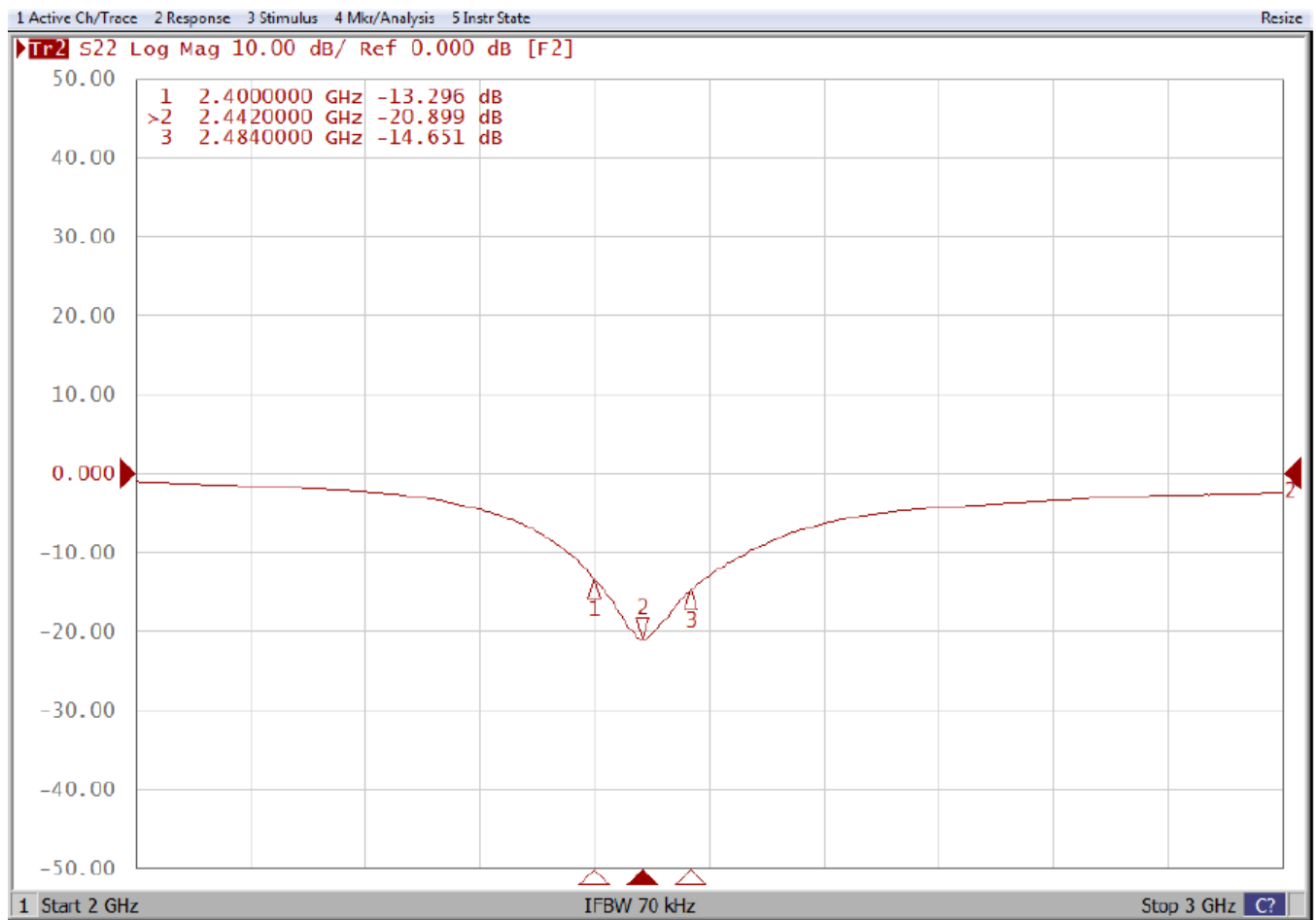
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ELECTRICAL CHARACTERISTICS



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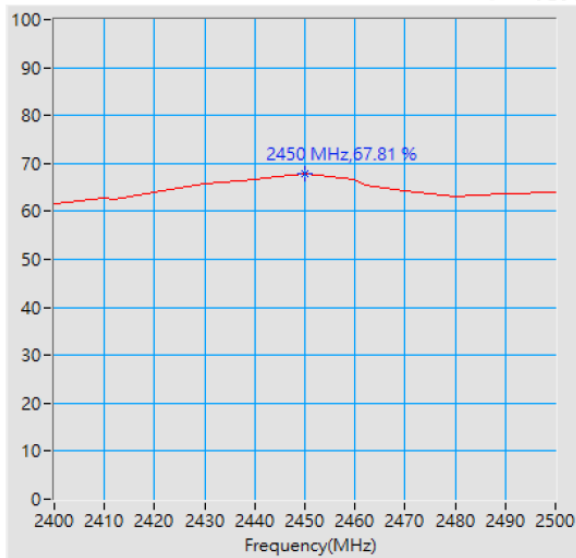
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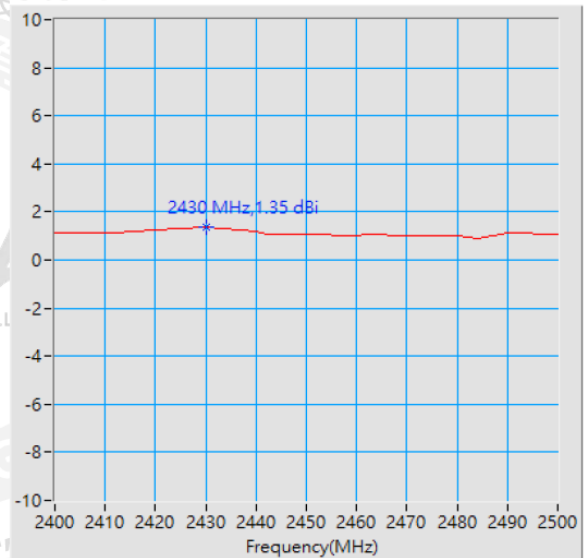
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■ Antenna Efficiency & Peak Gain



Maximum Efficiency at 2450 MHz : 67.81%



Maximum Peak Gain at 2430 MHz : 1.35 dBi

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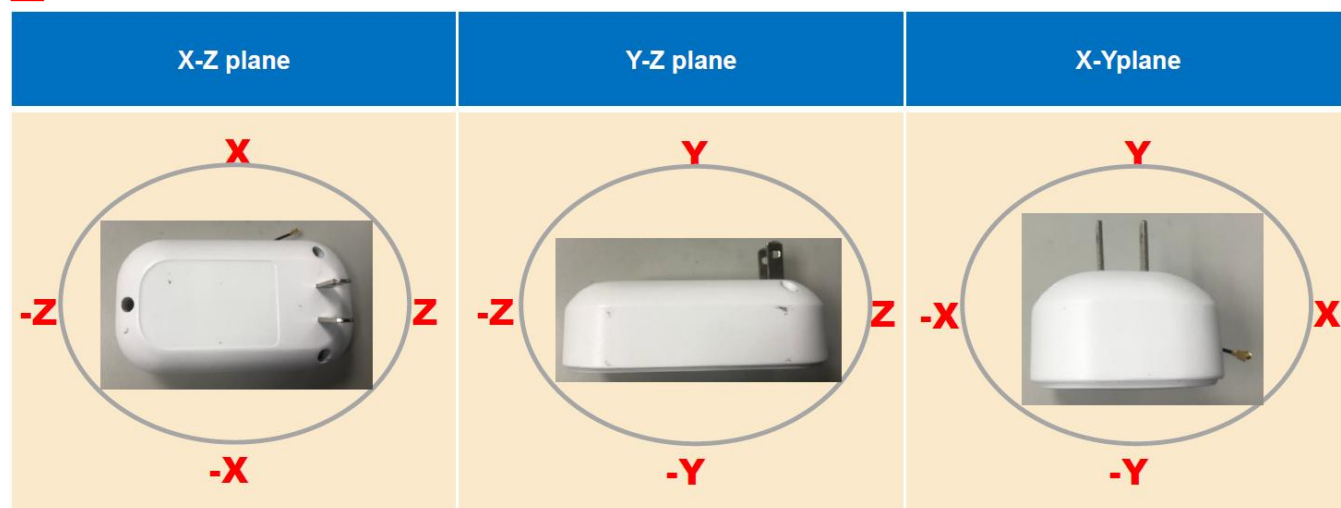
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■ 3 views of antenna



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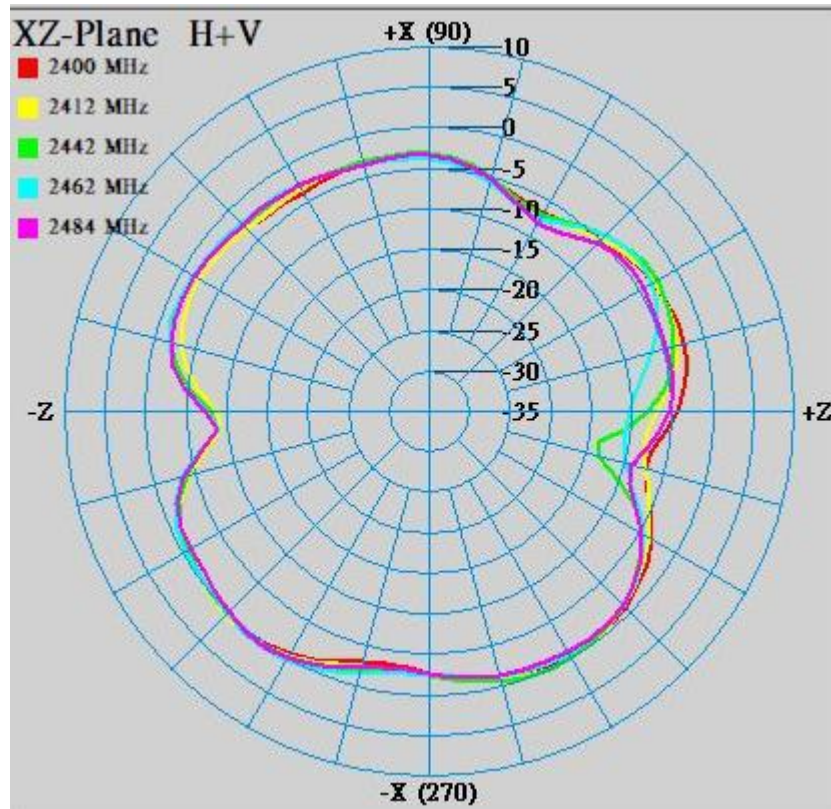
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RADIATION PATTERN

X-Z Plane

Phi=0.00deg

Gain . dB



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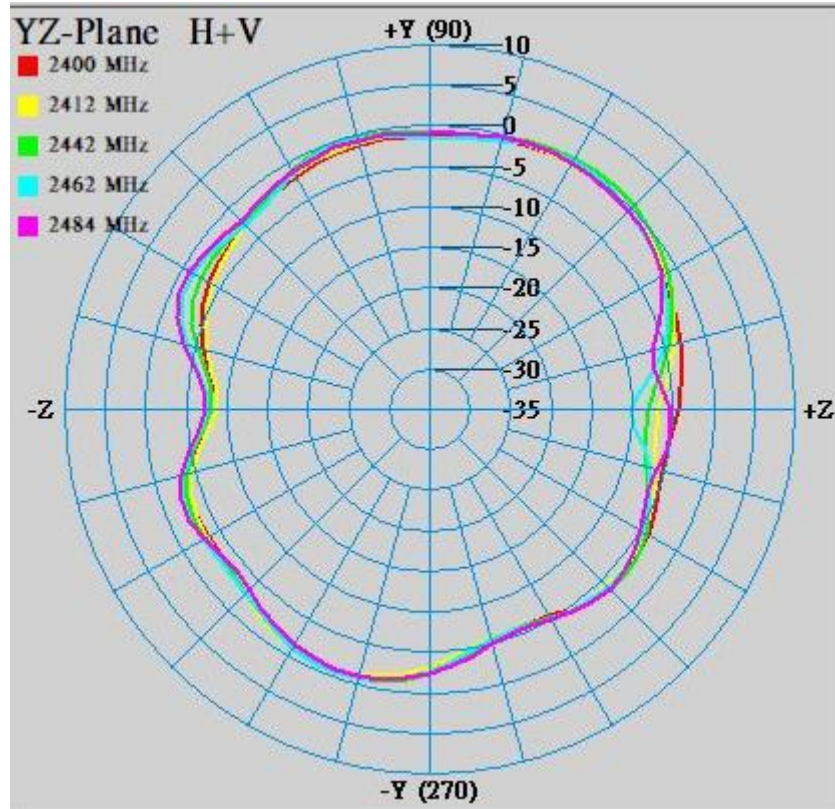
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Y-Z Plane

Phi=90.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

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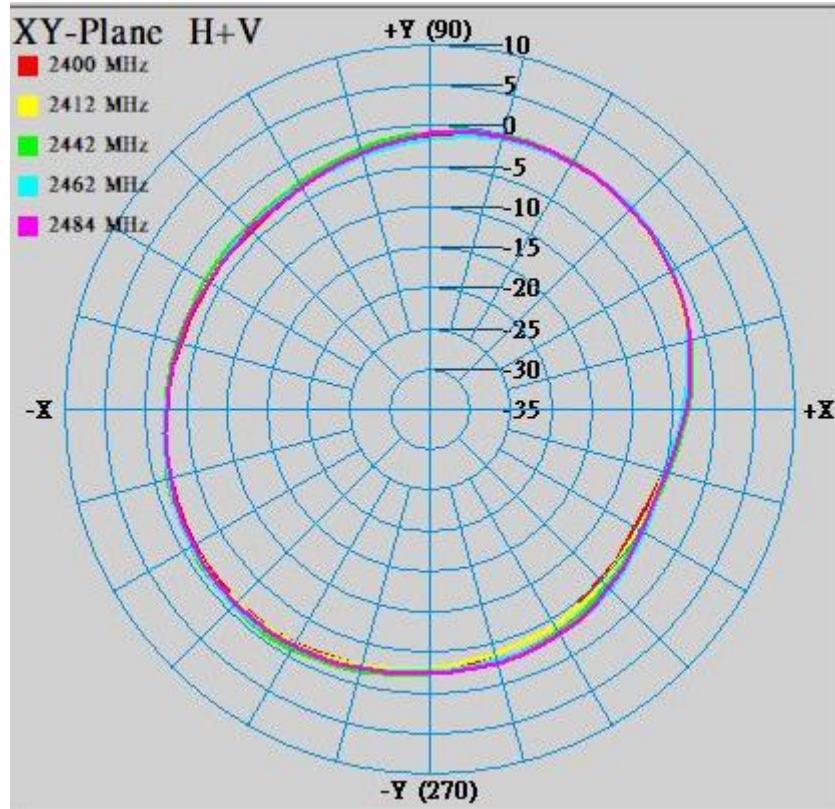
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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	0.42	-2.67	-0.11	-2.69	0.20	-2.28
2412	0.64	-2.68	-0.01	-2.73	0.21	-2.18
2442	0.54	-2.57	0.84	-2.35	0.27	-1.82
2462	0.71	-2.67	0.47	-2.54	0.31	-2.03
2484	0.54	-2.83	0.17	-2.44	0.24	-2.00

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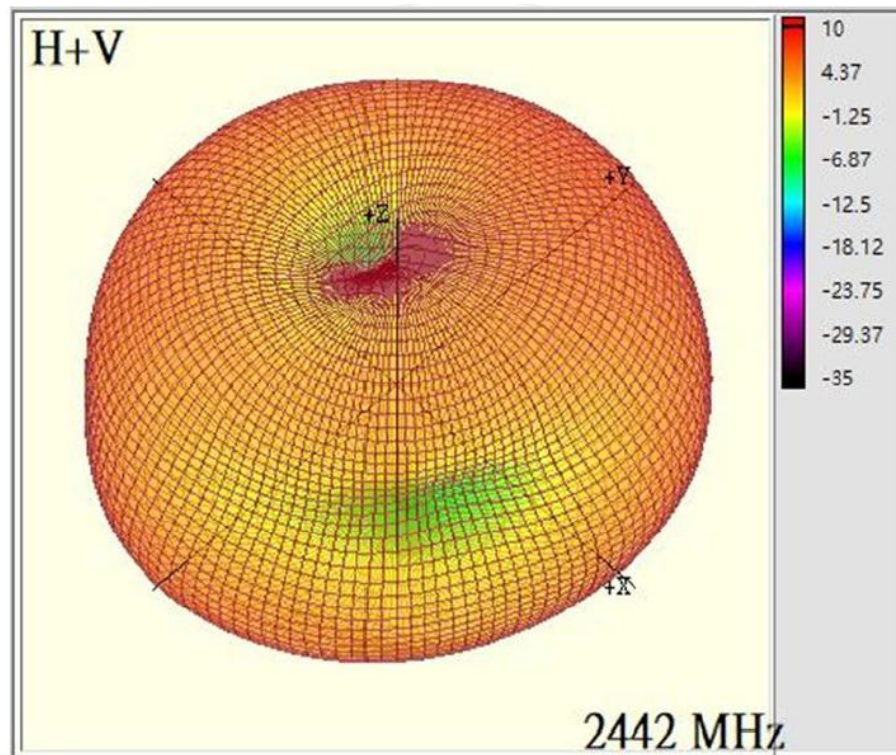
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3D Radiation Patterns



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