

品名：REFPA341300NNAB001

History List

[illegible]

品名：RFFPA341300NNAB001

1. Explanation of part number：

RF	FPA	3413	00	N	N	A	B	0	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	FPC Antenna	Per 2 digits of length, width e.g.: 4014 Length 40.4mm, Width 14.1mm	2 digits for cable length e.g.: 00 Cable None	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	-10 dB(Max)
VSWR	2 max.
Peak Gain	-0.32 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：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黄瑞郎

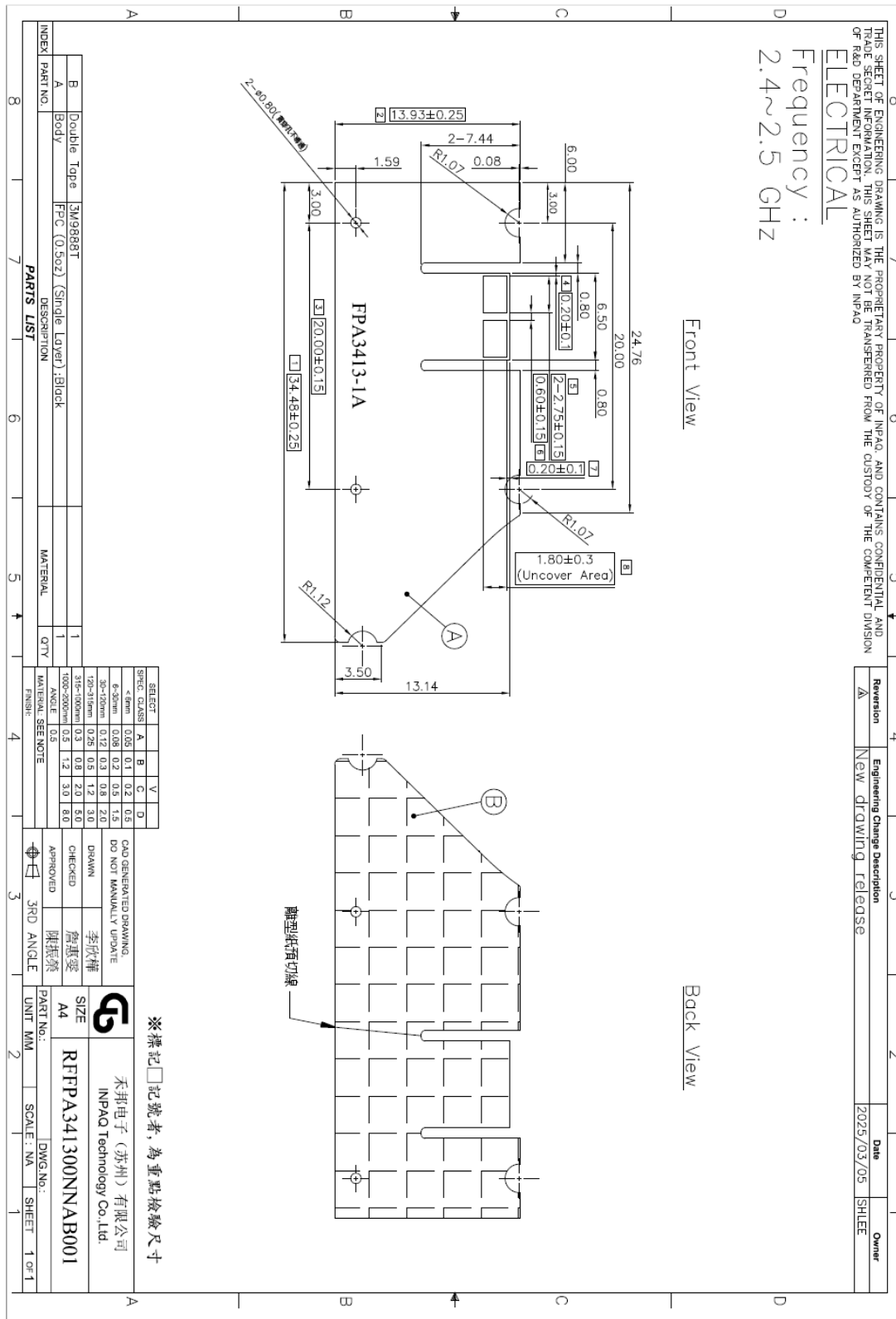
APPROVED BY：陳振榮

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3. Antenna Drawing :



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UNIT : mm

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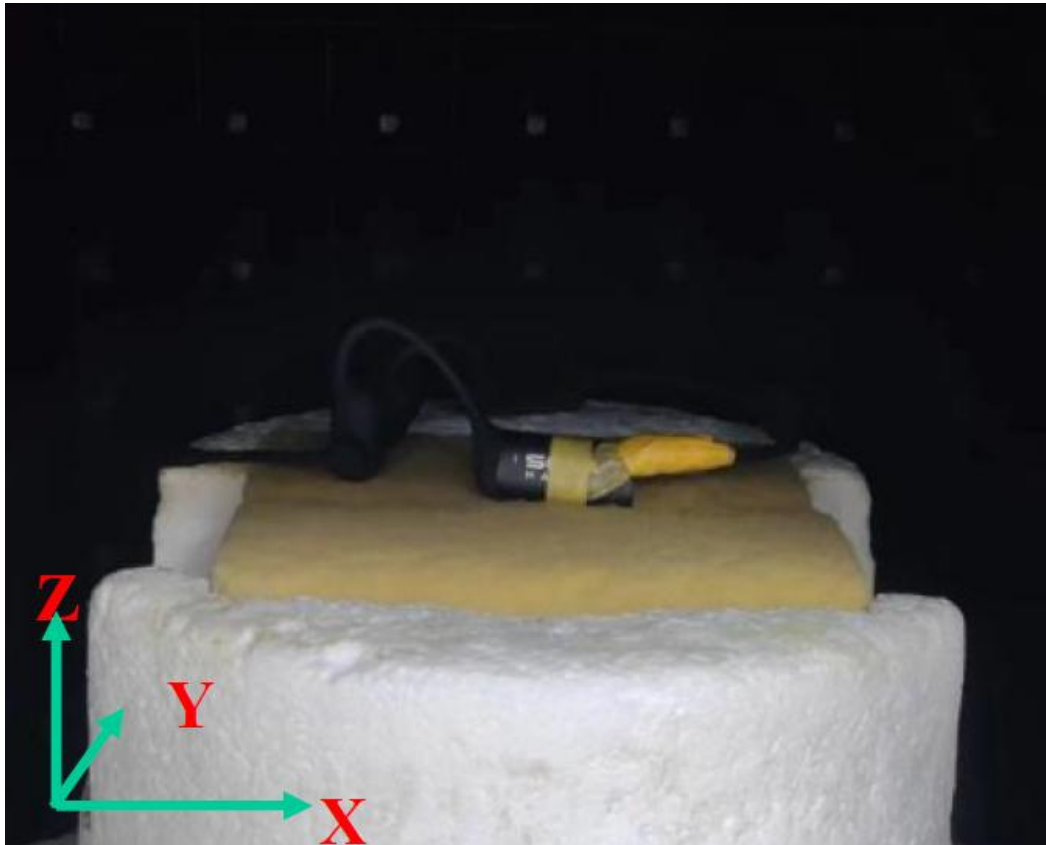
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4. Performance Report :

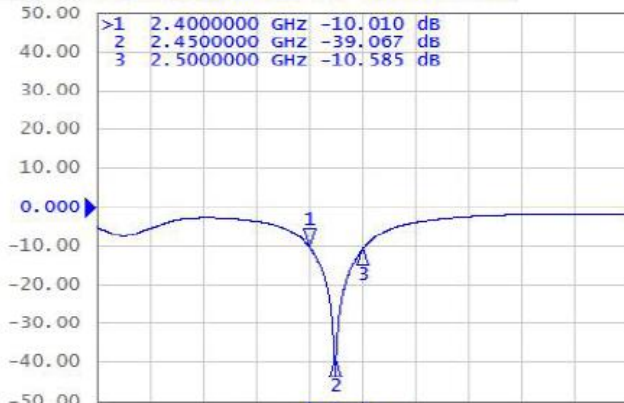
Test Report**■ Experimental Setup**

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ELECTRICAL CHARACTERISTICS

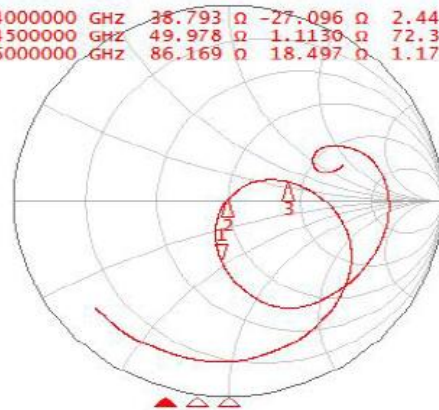
S-Parameter

Tr1 S22 Log Mag 10.00 dB/ Ref 0.000 dB [F1]

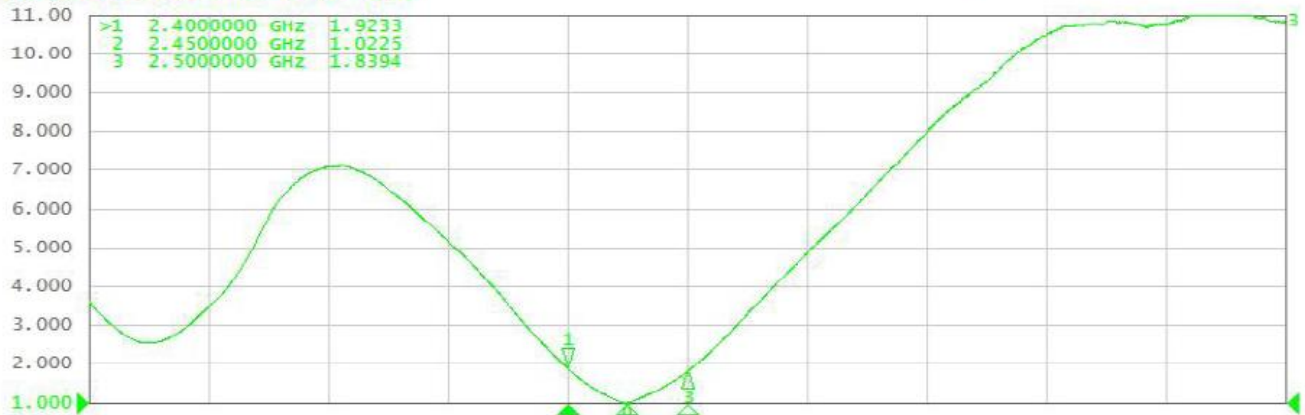


Tr2 S22 Smith (R+jX) Scale 1.000 u [F1]

>1	2.4000000	GHZ	38.793	Ω	-27.096	Ω	2.4474	pF
2	2.4500000	GHZ	49.978	Ω	1.1130	Ω	72.304	pH
3	2.5000000	GHZ	86.169	Ω	18.497	Ω	1.1776	nH



Tr3 S22 SWR 1.000 / Ref 1.000 [F1]



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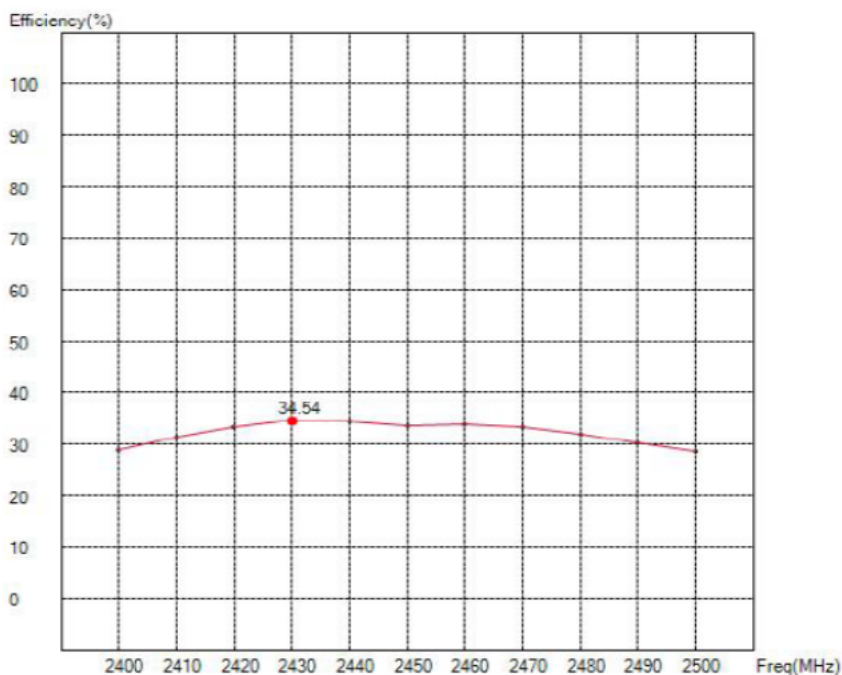
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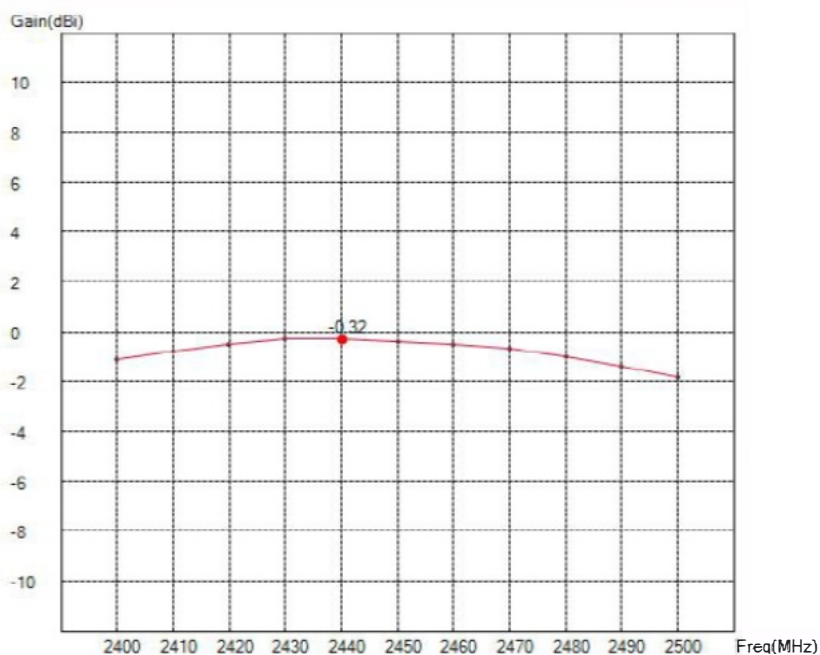
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■ Antenna Efficiency and Peak Gain

2G



Maximum Efficiency at 2430MHz : 34.54%



Maximum Peak Gain at 2450MHz : -0.32dBi

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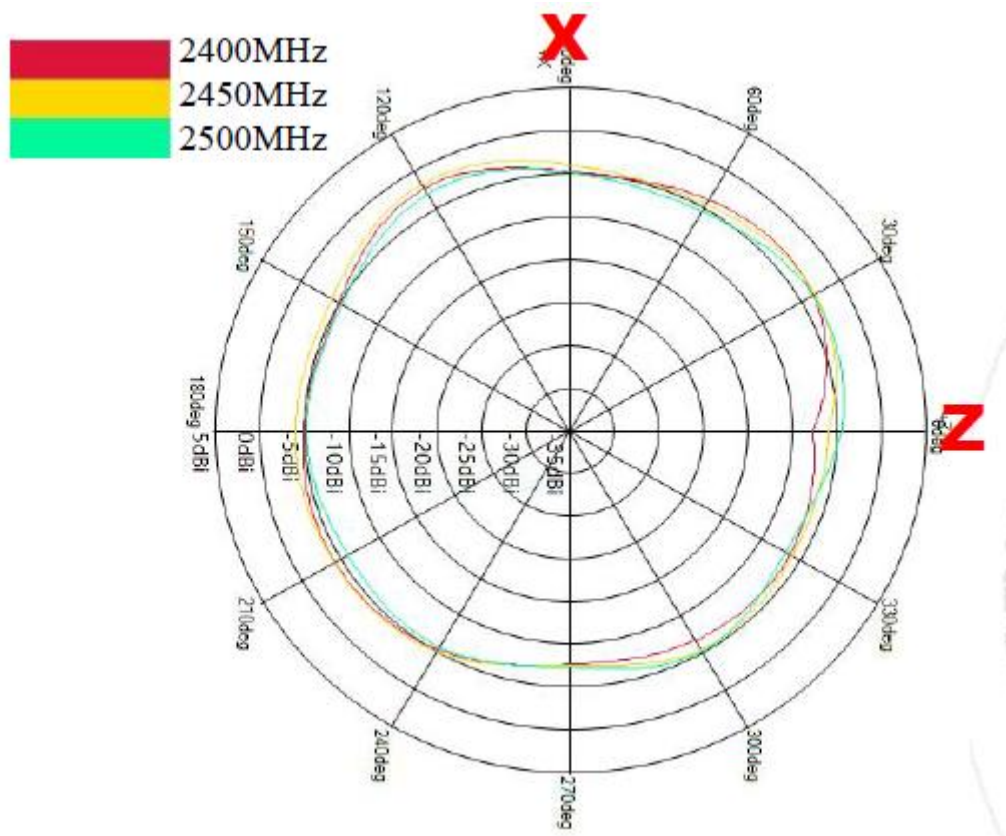
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RADIATION PATTERN

X-Z Plane

Phi=0.00deg

Gain . dBi



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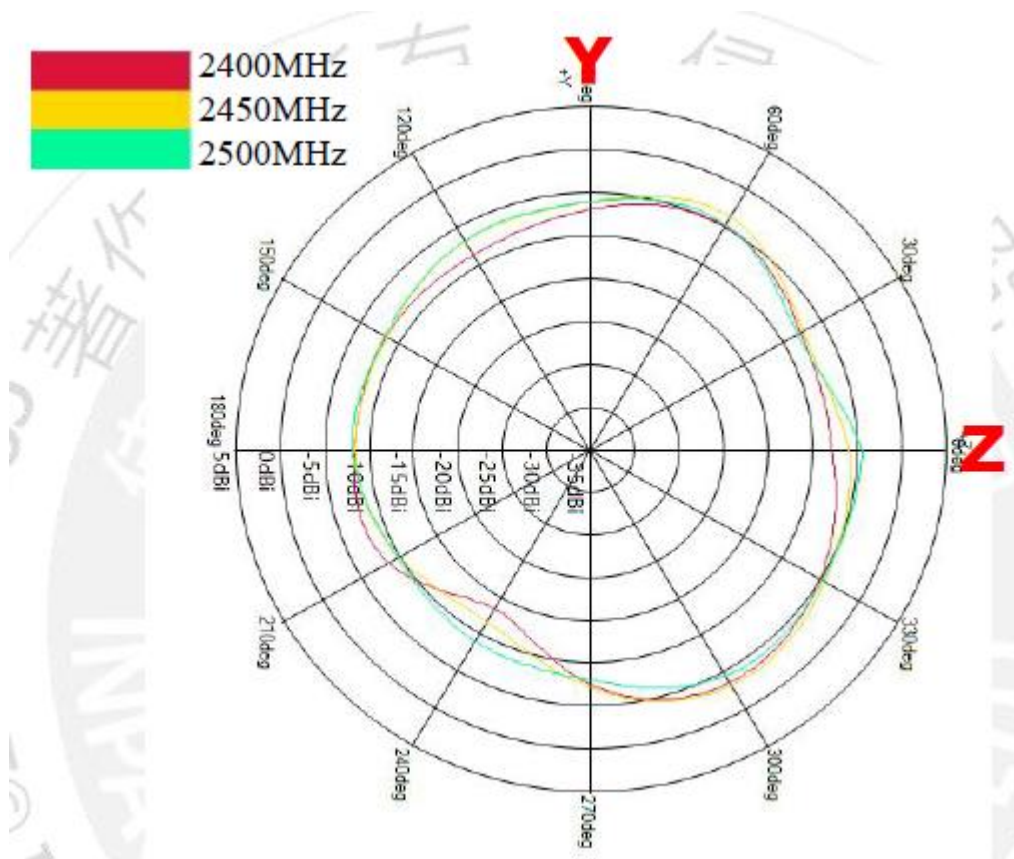
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Y-Z Plane

Phi=90.00deg

Gain . dBi



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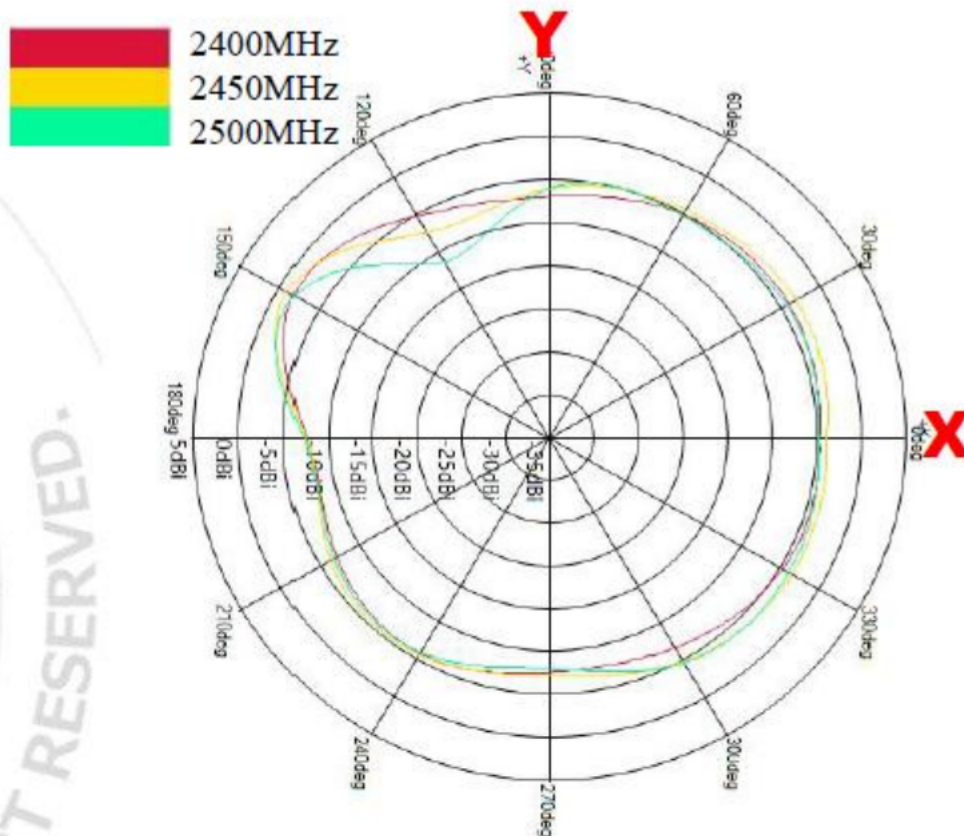
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X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-2.24	-5.08	-3.66	-6.85	-1.89	-5.28
2450	-1.69	4.59	-3.25	-5.95	-0.32	-4.64
2500	3.02	4.98	-4.32	-5.98	-1.93	-5.32

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