品名：**RFPCA381104IMAB301**

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 編號 ECN NO.
P0	李欣樺	ALL	New Release	2024/12/05	According to the date of PLM Release	N/A

品名：RFPCA381104IMAB301

1. Explanation of part number：

RF	PCA	3811	04	I	M	A	B	3	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	PCB Antenna	Per 2 digits of length, width e.g.: 2221 Length 22mm, Width 21mm	2 digits for cable length e.g.: 14 Length 14.5cm	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	2.4~2.5 GHz
Return Loss	-10 dB(Max.)
VSWR	2.0 Max.
Peak Gain	3.38 dBi
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

INPAQ TECHNOLOGY CO., LTD.

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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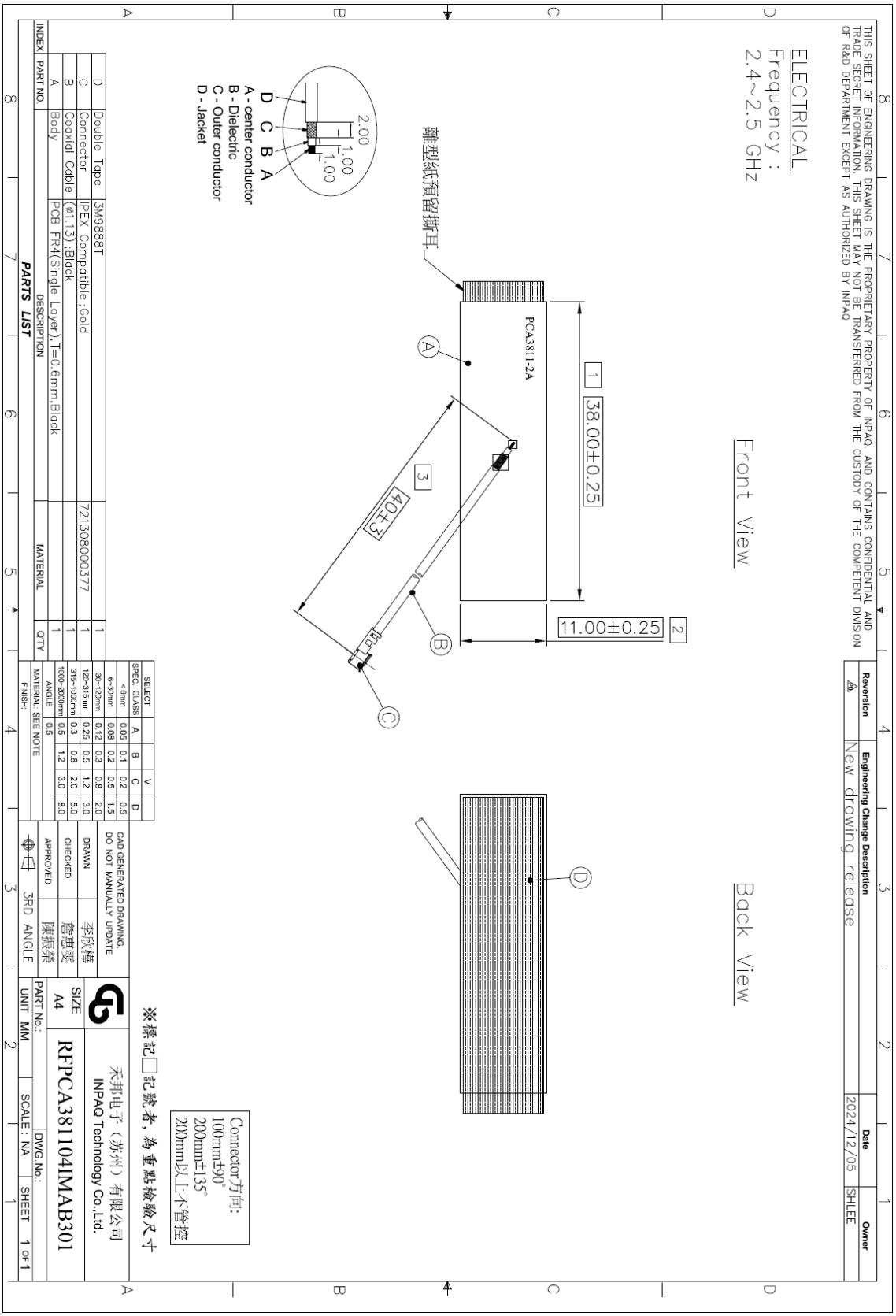
3. Antenna Drawing：



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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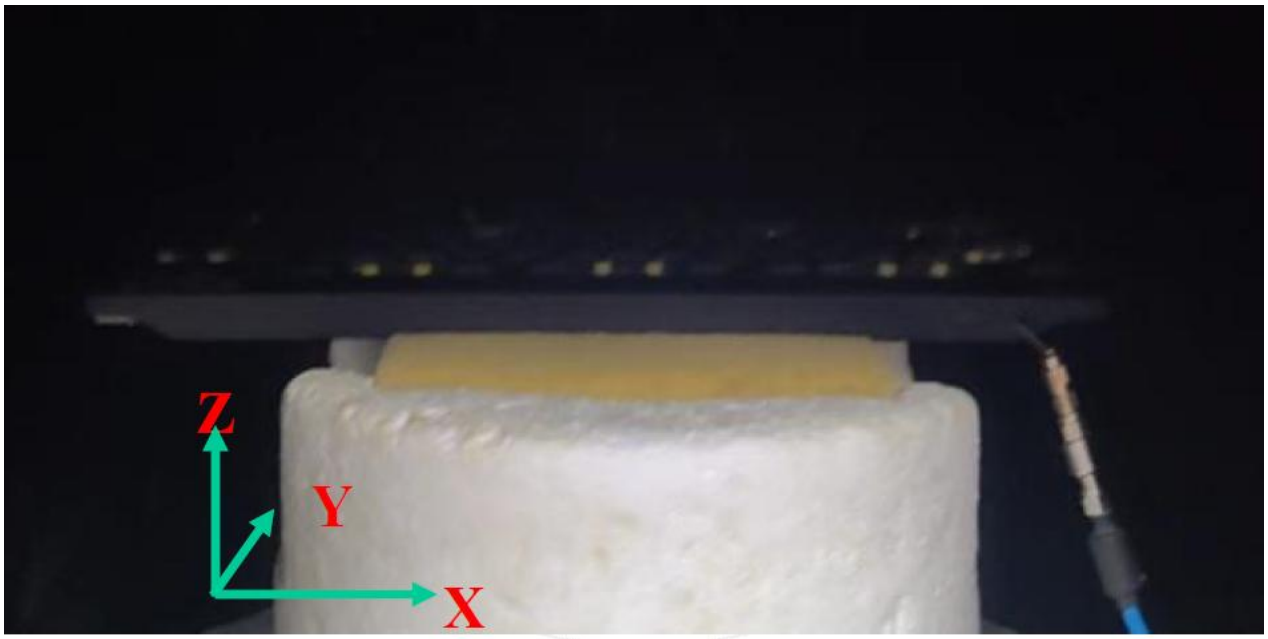
4. Performance Report：

Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss



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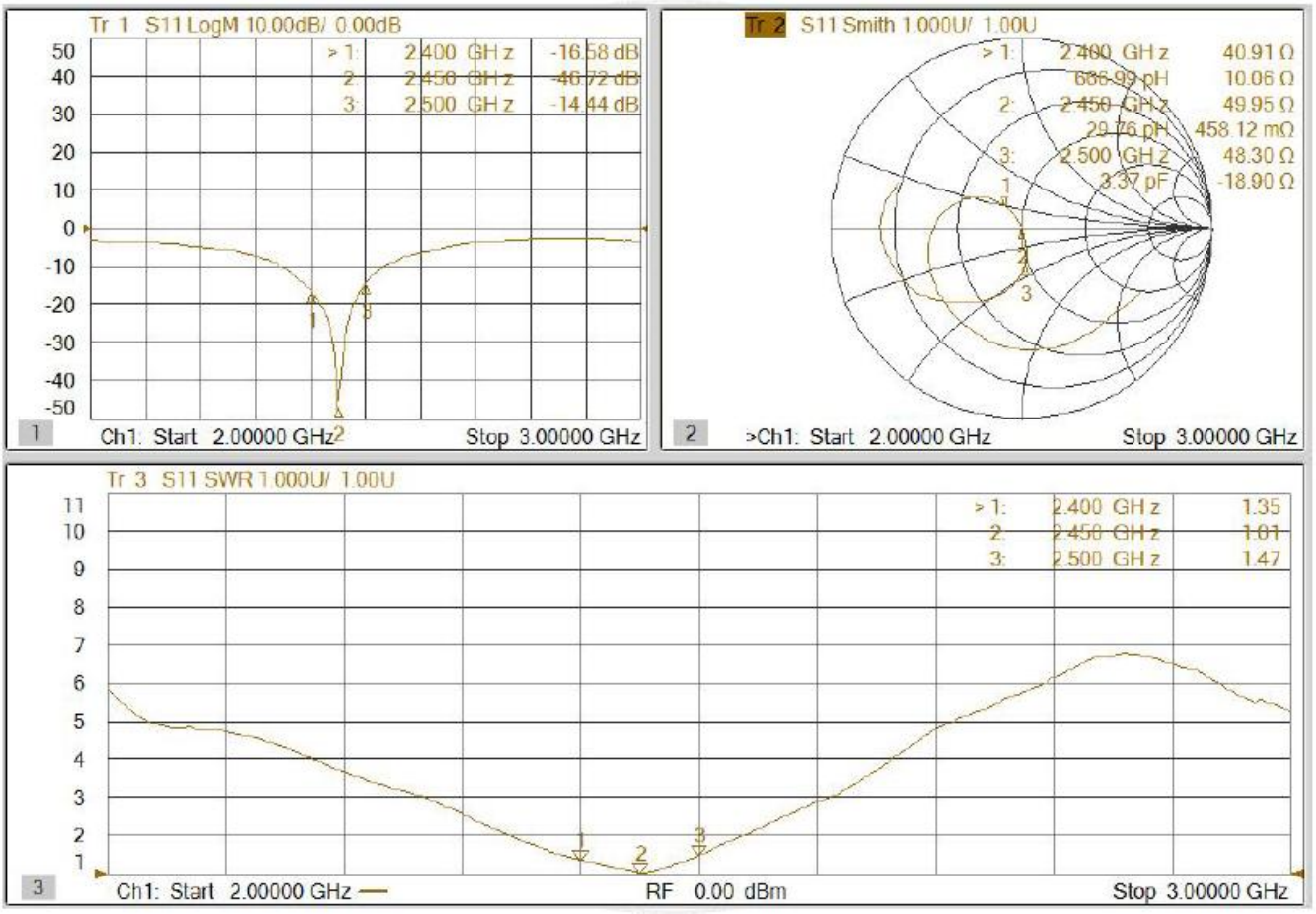
■ELECTRICAL CHARACTERISTICS

S-Parameter



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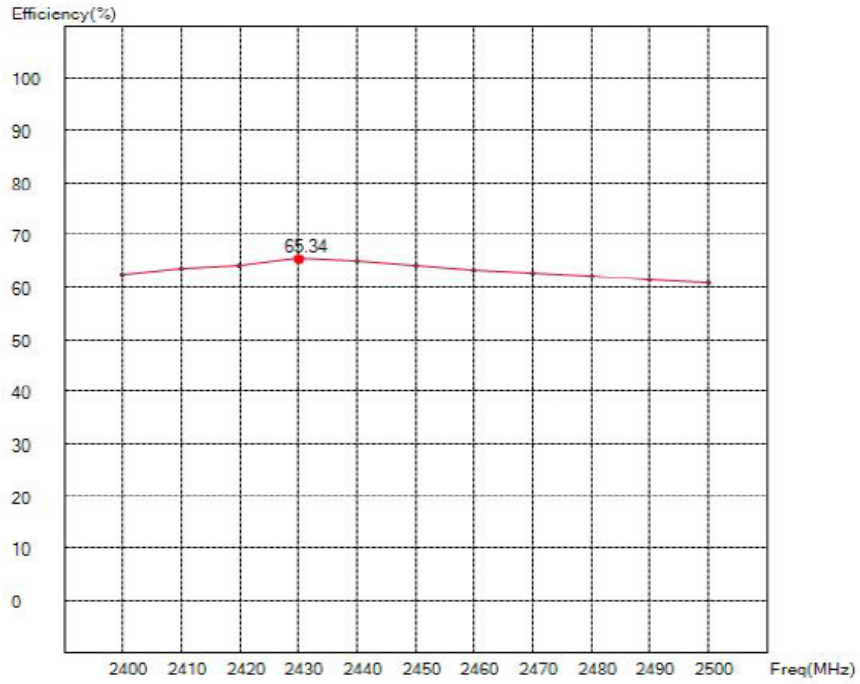
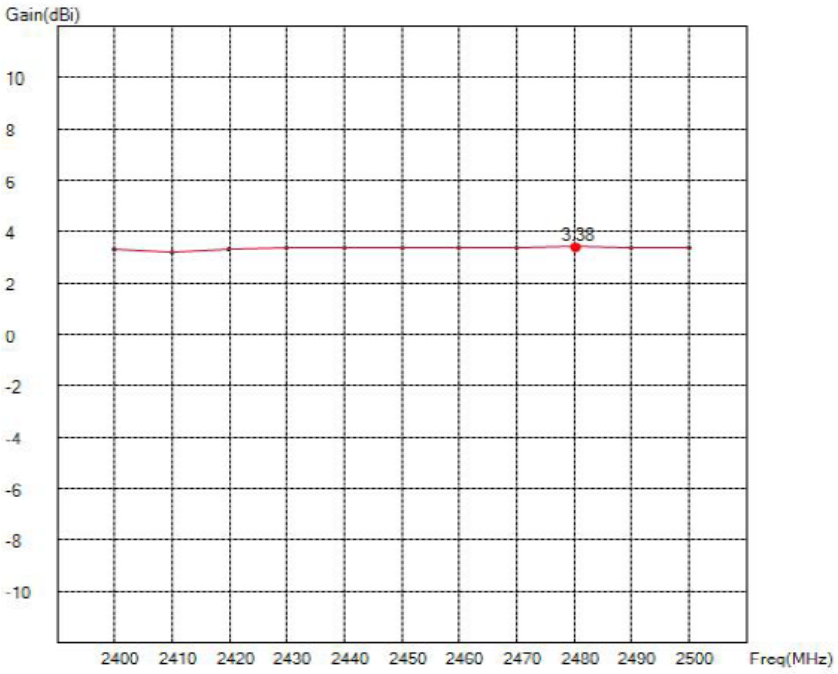
Antenna Efficiency and Peak Gain



Maximum Efficiency at 2430MHz : 65.34%



Maximum Peak Gain at 2480MHz : 3.38dBi

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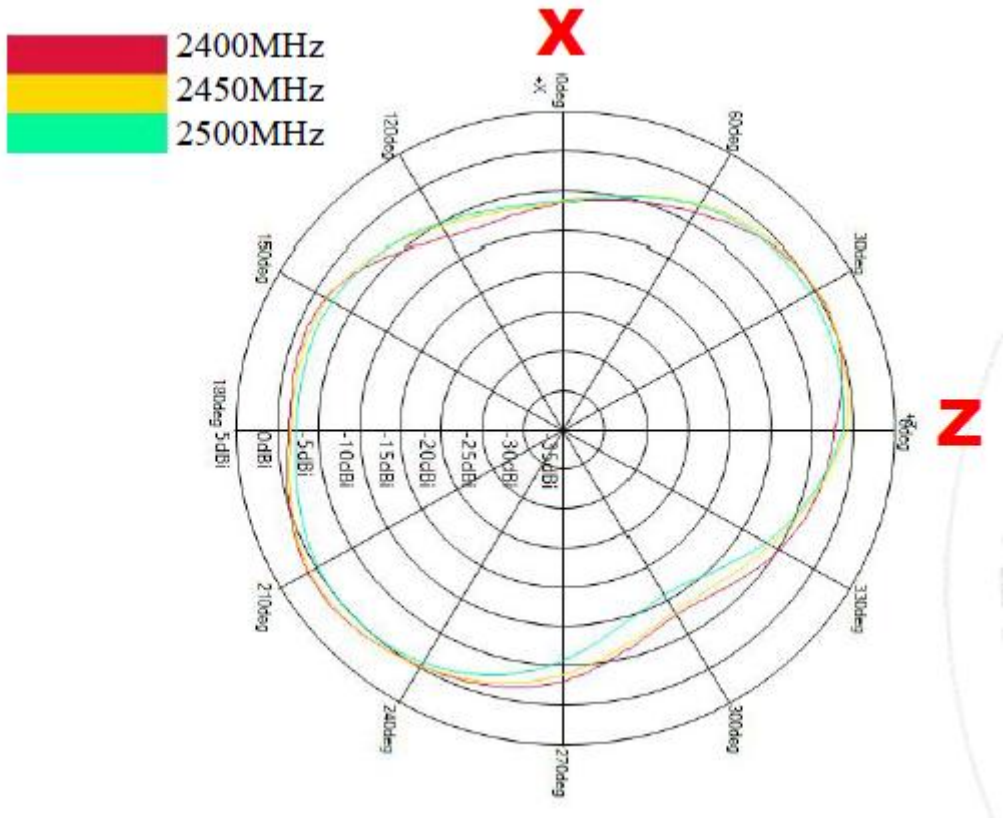
RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dBi



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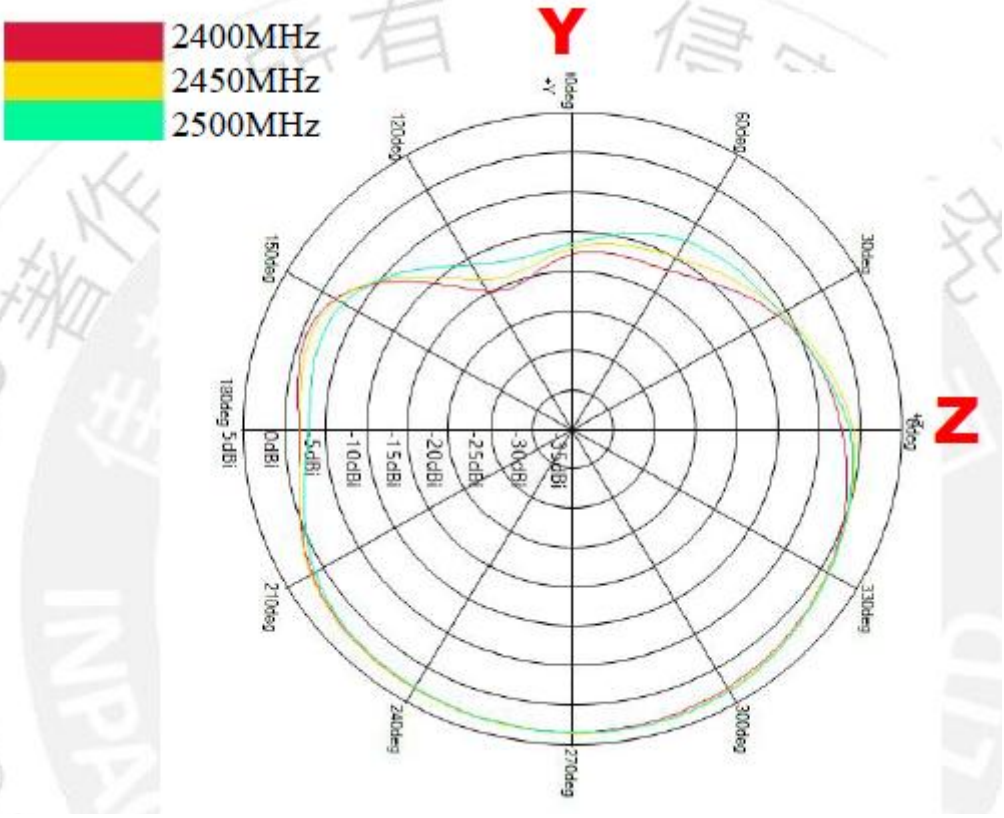
Phi=90.00deg

Gain . dBi



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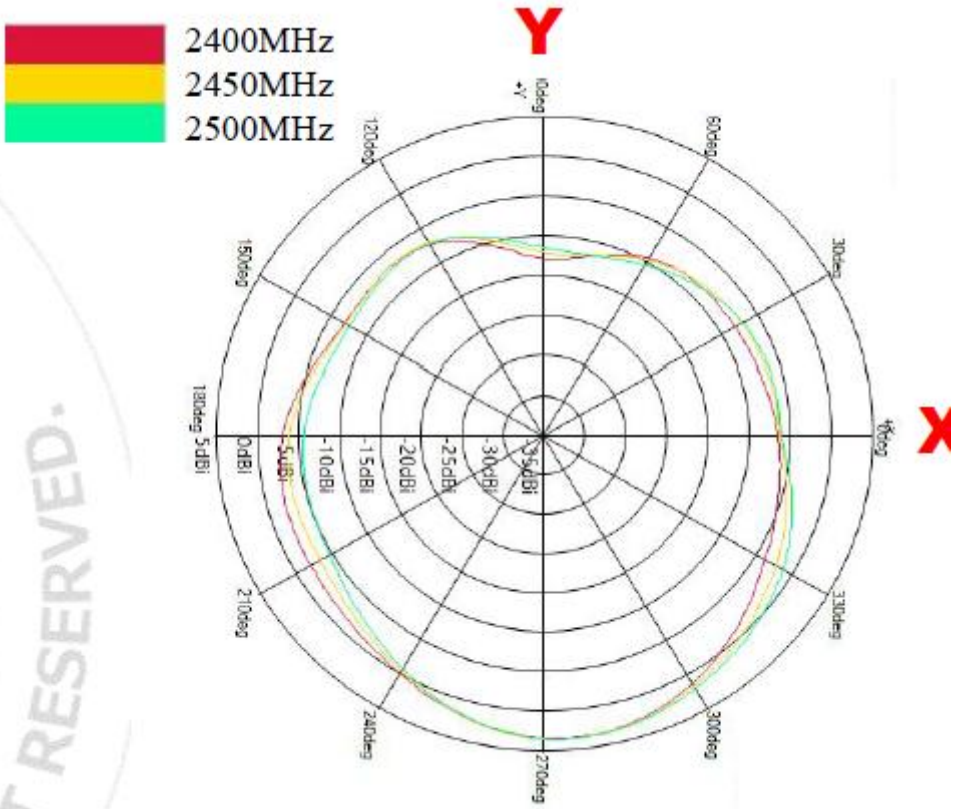
Theta=90.00deg

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	0.91	-2.42	3.28	-0.37	3.28	-2.43
2450	0.61	-2.13	3.38	0.00	3.38	-2.38
2500	-0.50	-2.78	3.33	-0.09	3.33	-2.45

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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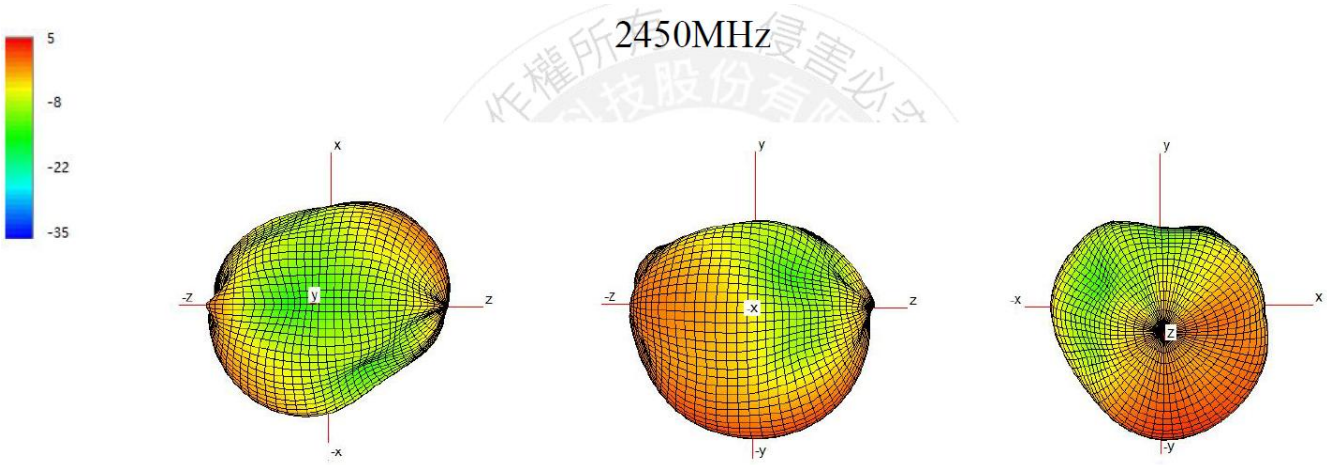
3D Radiation Patterns



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