

APPROVAL SHEET

PCB Antenna

2.4~2.5 / 5.15~5.85 GHz Working Frequency

Halogens Free Product

P/N: RFPCA402204IMLB301

Model: ZAT-6000

Customer :

Customer 's Part No. :

Approval No. :

Issue Date :

INPAQ TECHNOLOGY CO., LTD.

ADD : No. 11, Keyi St., Zhunan Township, Miaoli County 350402 , Taiwan (R.O.C.)

TEL : +886-37-585-555

FAX : +886-37-585-511

E-Mail : info@inpaq.com.tw



P/N : RFPCA402204IMLB301

History List

[illegible]

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 : PIPI

CHECKED BY : huiwenchan

DESIGNED BY : Wilson Wang

APPROVED BY : Brianchen

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P/N : RFPCA402204IMLB301

Model: ZAT-6000

1. Explanation of part number :

RF	PCA	4022	04	I	M	L	B	3	01
Type Code	Product Code	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.: 0202 Length 2.85mm, Width 2mm	2 digits for cable length e.g.: 10 Length 10cm	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.x 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 9: Ø1.37 Low Loss	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2.4~2.5 / 5.15~5.85 GHz
Return Loss	-10 dB
Peak Gain	2450 MHz @ 2.42 dBi ($\theta=46^\circ$, $\phi=166^\circ$) Band1: 5150 MHz @ 3.13 dBi ($\theta=-34^\circ$, $\phi=14^\circ$) Band2: 5.26~5.32GHz @ 2.66 dBi ($\theta=58^\circ$, $\phi=70^\circ$) Band3: 5.5~5.7GHz @ 3.80 dBi ($\theta=-72^\circ$, $\phi=110^\circ$) Band4: 5850 MHz @ 4.41 dBi ($\theta=-68^\circ$, $\phi=110^\circ$)
VSWR	2 max.
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20° C~+65° C

Remark: Peak gain = reading value + factor

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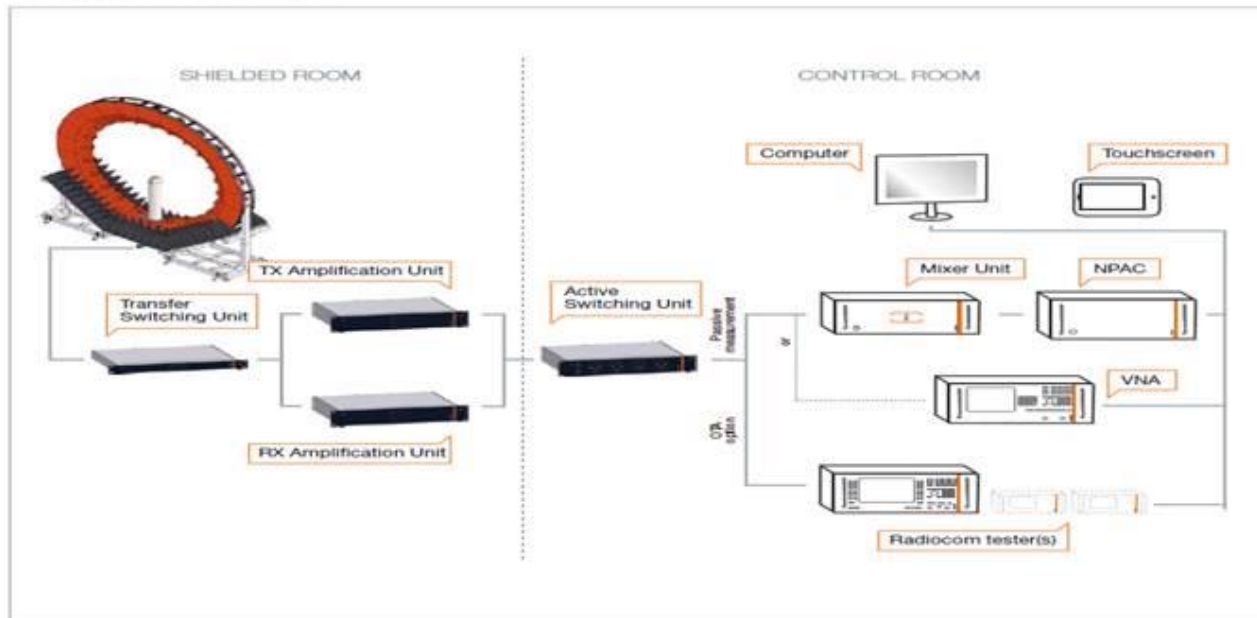
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4. Test Equipment

Pattern Measurement:

- Chamber : Satimo
- Test Program: SPM V15
- Setup Photo:

System overview



Test equipment specifications

Vender	Model No.	Calibrated Date	Calibrated Until
Satimo	SG24	2022/11/29	2023/11/29
Keysight Network Analyzer	E5071C	2020/3/3	2023/3/3

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6. Test Report

Version	Date	Description	Author
V01	2023/08/03	New Release	Wilson
V02	2023/08/14	Design PCB ANT with cable	Wilson
V03	2023/08/18	Change the dimension of PCB ANT with cable	Wilson

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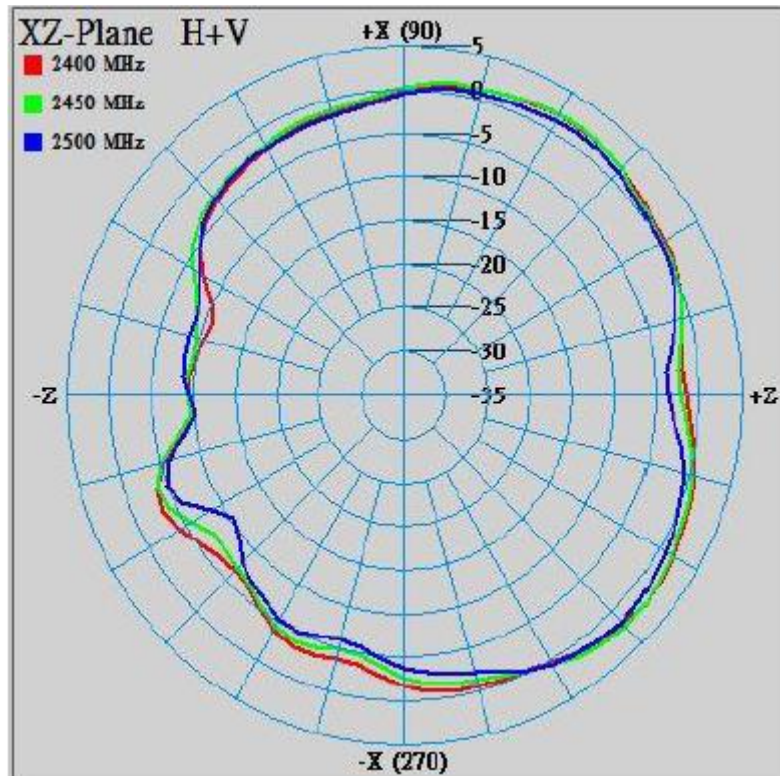
Radiation Patterns

2G

X-Z Plane

Phi=0.00deg

Gain . dB



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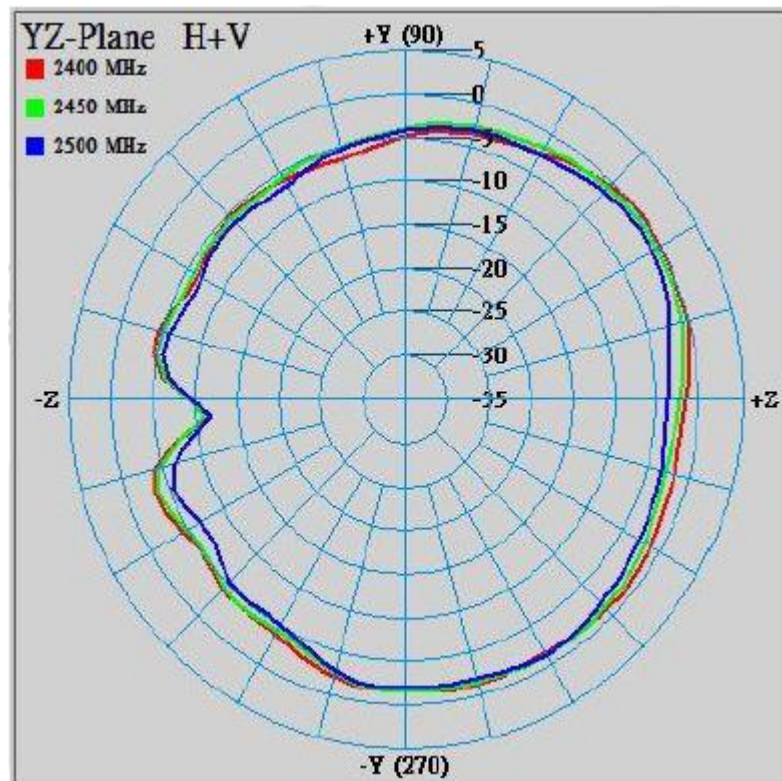
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Y-Z Plane

Phi=90.00deg

Gain . dB



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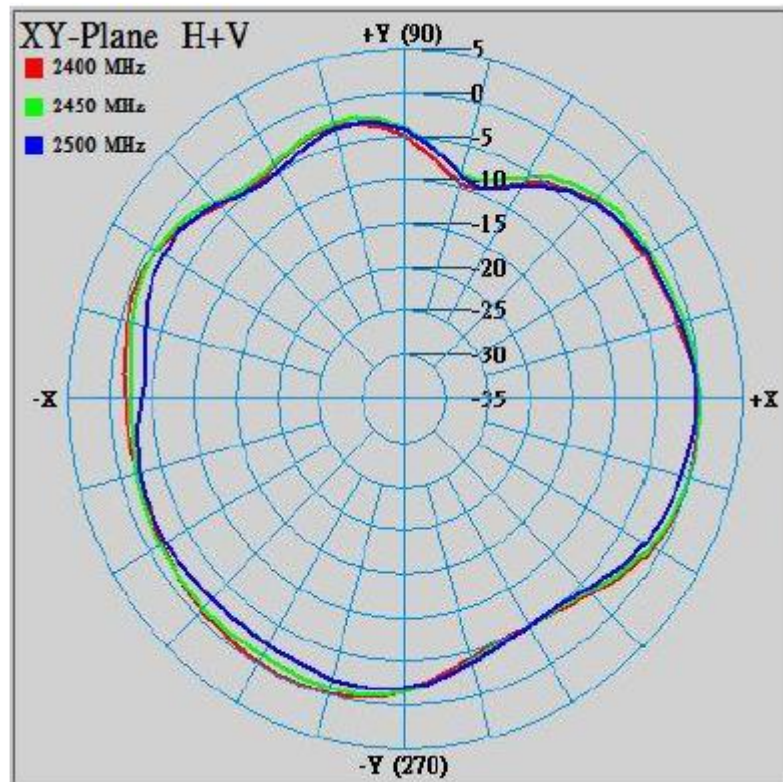
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X-Y Plane

Theta=90.00deg

Gain . dB



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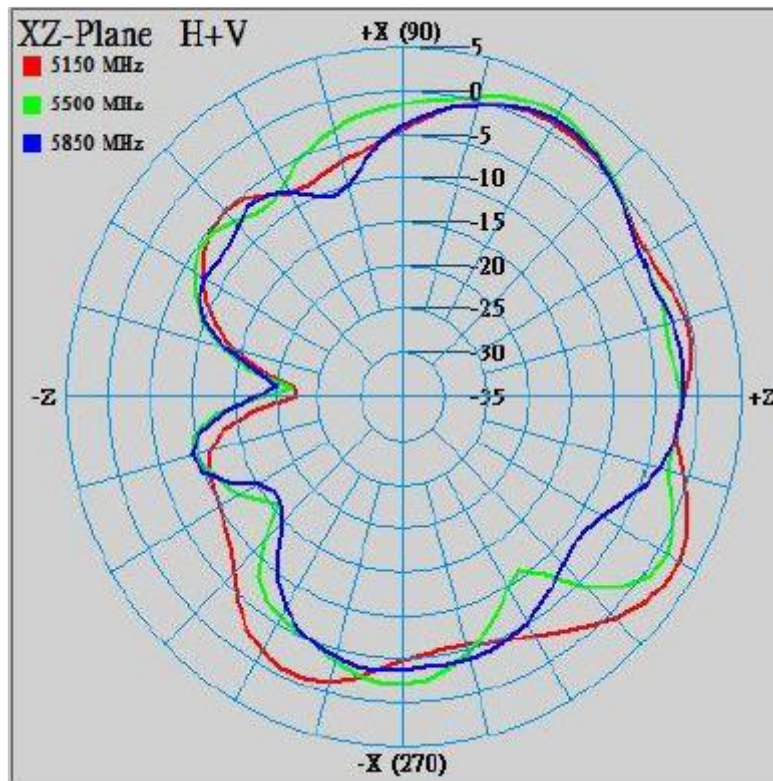
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5G

X-Z Plane

Phi=0.00deg

Gain . dB



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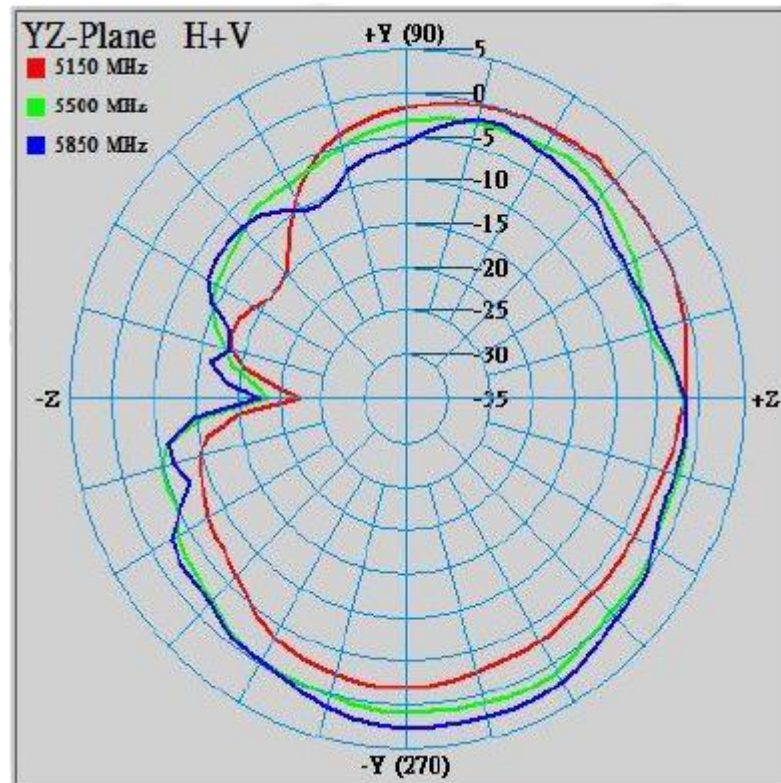
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Y-Z Plane

Phi=90.00deg

Gain . dB



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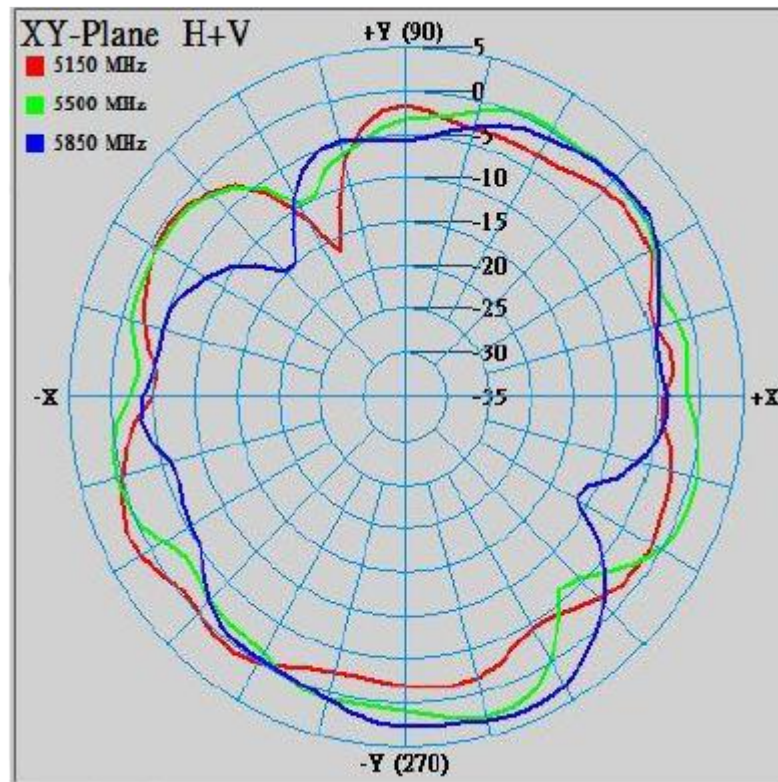
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X-Y Plane

Theta=90.00deg

Gain . dB



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