

APPROVAL SHEET

FPC Antenna

2.4~2.5 GHz Working Frequency

Halogens Free Product

P/N: RFFPA301707IMAB301

Customer : Primax Electronics Ltd.

Customer 's Part No. : 690800022600

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

Part Number : RFFPA301707IMAB301

History List

[illegible]

品名：RFFPA301707IMAB301

1. Explanation of part number：

RF	FPA	3017	07	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	FPC Antenna	Per 2 digits of length, width e.g.: 3017 Length 30.0mm, Width 17.5mm	2 digits for cable length e.g.: 07 Length 7.5cm	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:Ø 0.81 2:Ø 1.32 3:Ø 1.13 4:Low Loss Ø 1.13 5:Ø 0.5 6:RG316 7: Ø 1.37 8:RG178 9:Low Loss Ø 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4~2.5 GHz (note-1)
Return Loss	-10.0 dB(Max)
VSWR	2.0 (Max)
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω

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

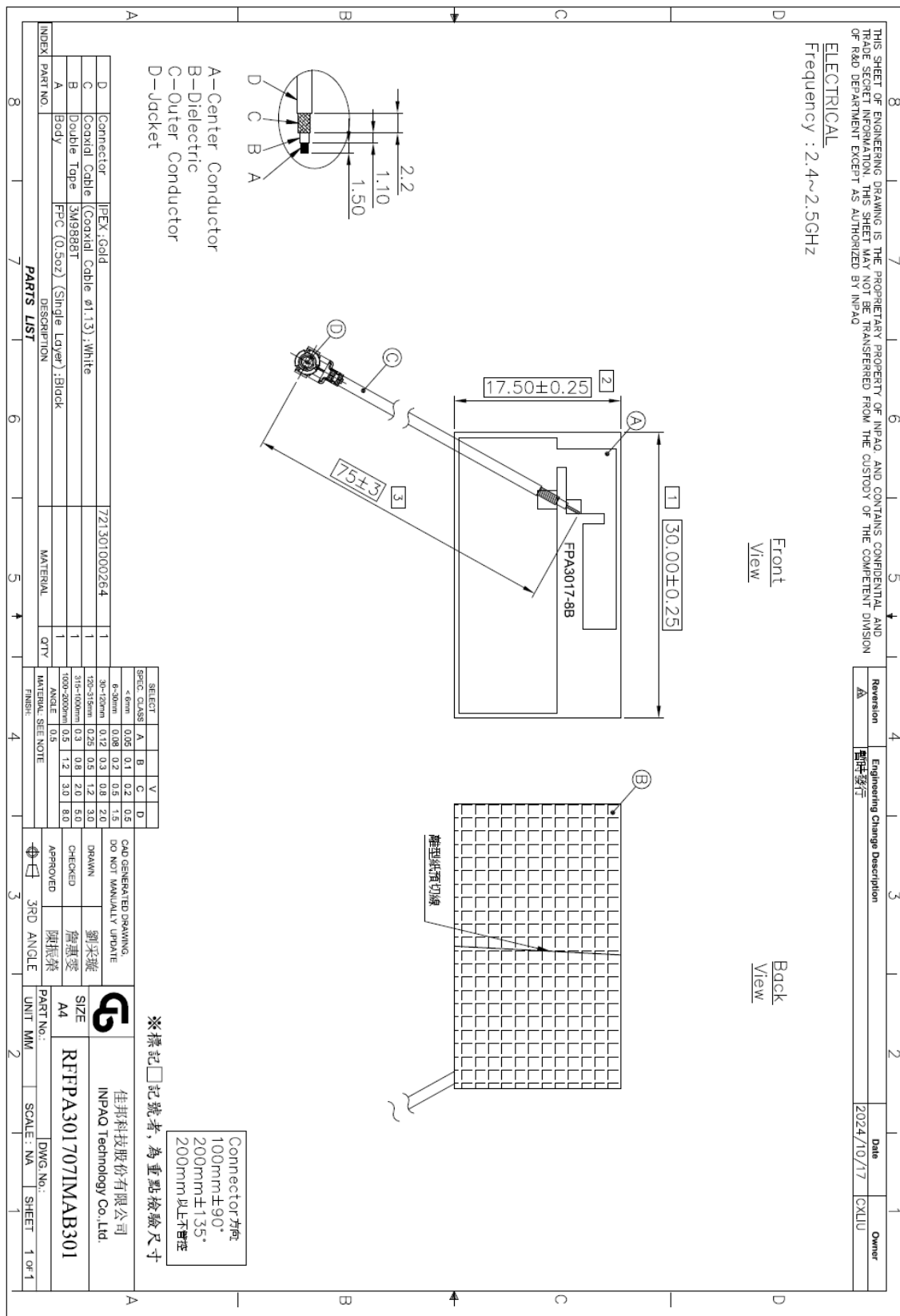
APPROVED BY：陳振榮

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TITLE：RFFPA301707IMAB301

DOCUMENT
NO.SPEC REV.
P0

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.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠愛

DESIGNED BY : 林育帆

APPROVED BY : 陳振榮

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DOCUMENT
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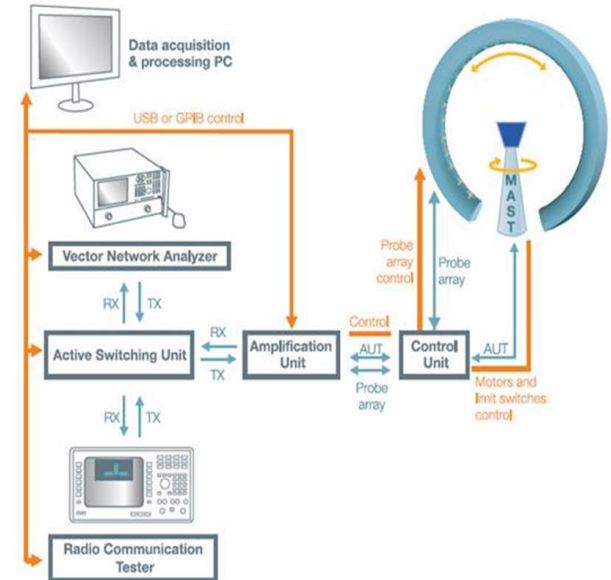
BATCAM

Antenna measurement report



- 1. Brand: Primax
- 2. Model Name : 12-D0201CG01
- 3. Manufacture information: Primax
- 4. Test engineer name :Kyle Wang
- 5. Test date:2024.03.13
- 6. Test Equipment : SATIMO Testing System (SG-24L)
- 7. test set up photo/equipment/ measure method

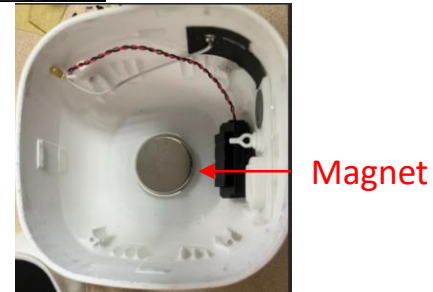
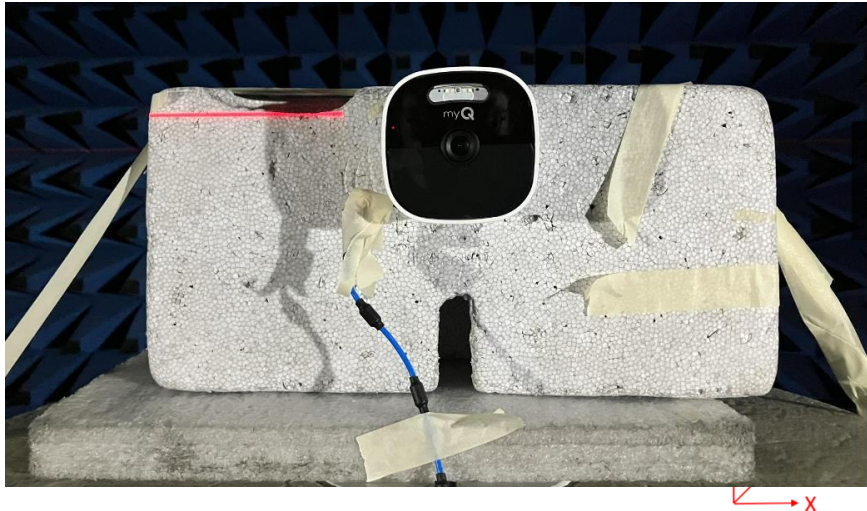
Antenna	WiFi	BLE
Type	Metal	FPC
model	RFMTA330800NNAB001	RFFPA301707IMAB301
connector info	X	IPEX



Measurement Information

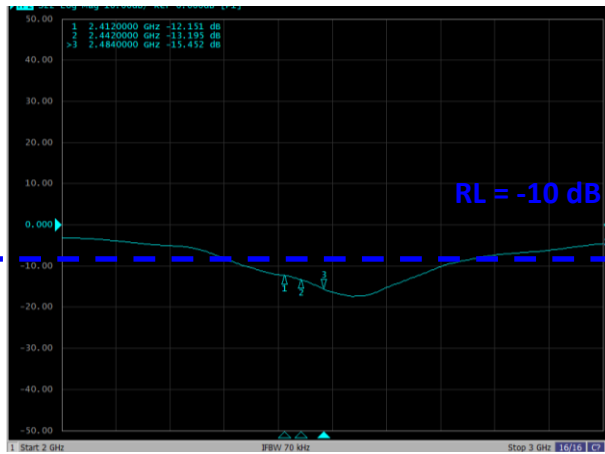
Test Setup:

1. Test in anechoic chamber(Satimo Antenna Testing System)
2. Use instrument such as VNA(vector network analyzer),active switching unit , amplification unit, radio communication unit
3. Scan WIFI band test frequency
4. Test Return Loss by using Network analyzer
5. The DUT with housing and internal antenna

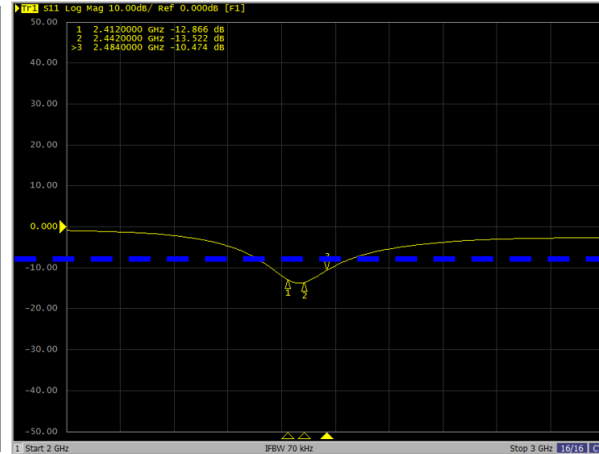


BATCAM Performance

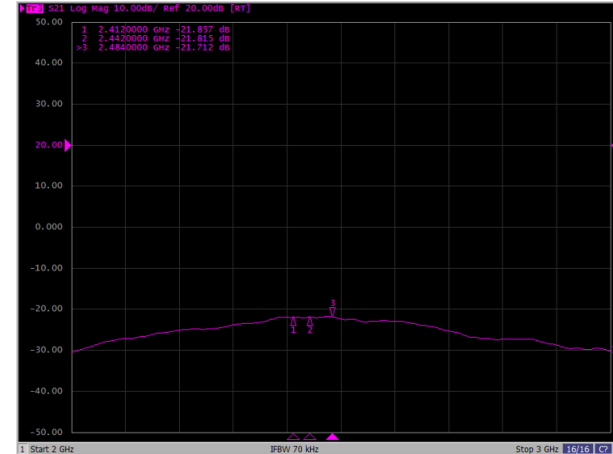
WiFi



BLE



Isolation

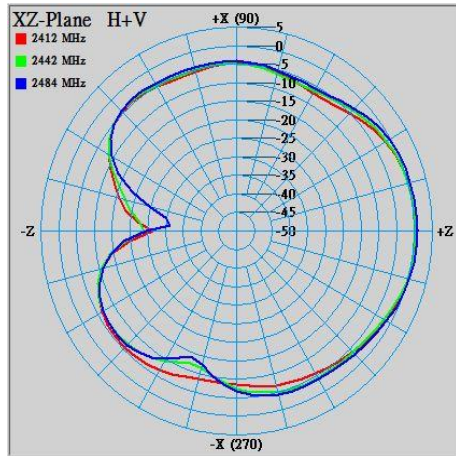


Frequency(MHz)	WiFi		BLE	
	Efficiency(%)	Peak Gain(dBi)	Efficiency(%)	Peak Gain(dBi)
2412	57%	2.61	54%	1.65
2442	60%	2.68	55%	1.52
2484	61%	2.52	53%	1.81

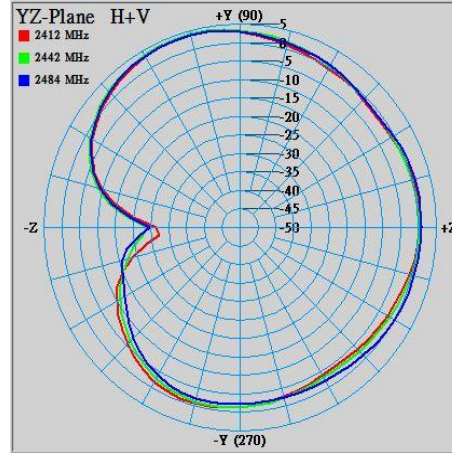


2D Radiation Patterns _ Wi-Fi

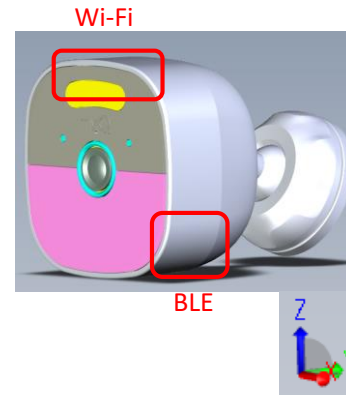
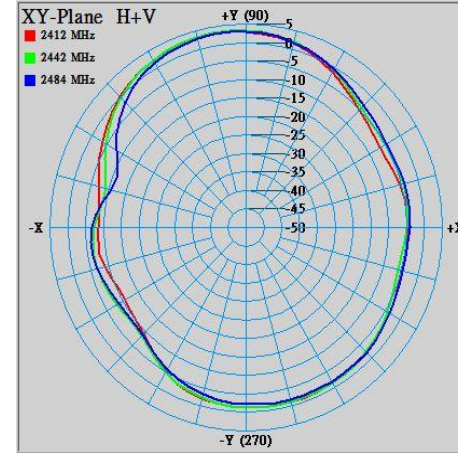
XZ-Plane



YZ-Plane

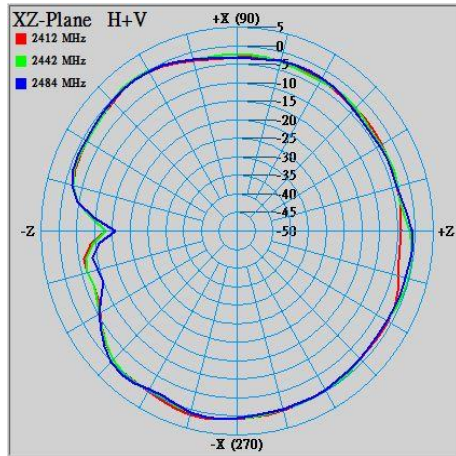


XY-Plane

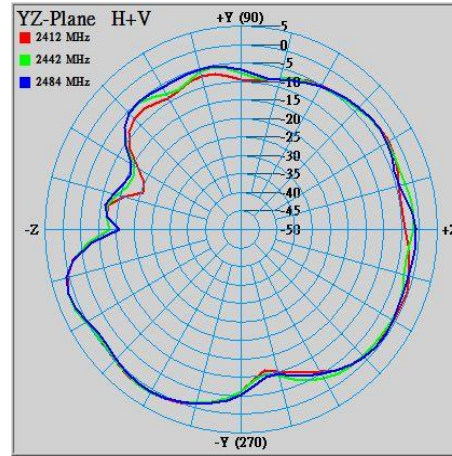


2D Radiation Patterns_BLE

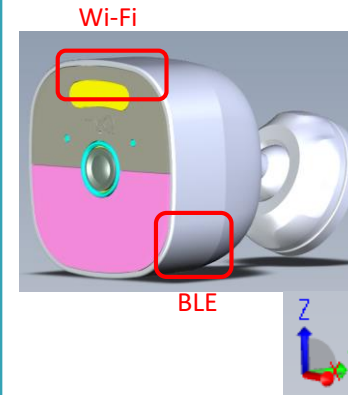
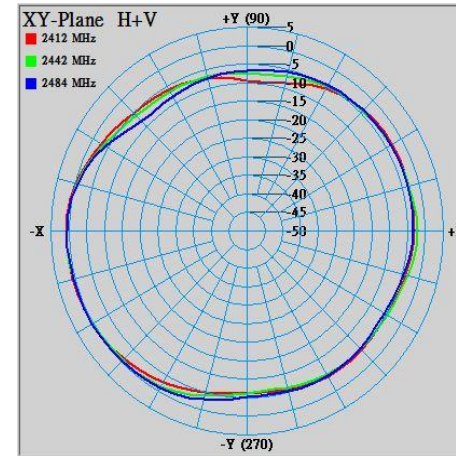
XZ-Plane



YZ-Plane

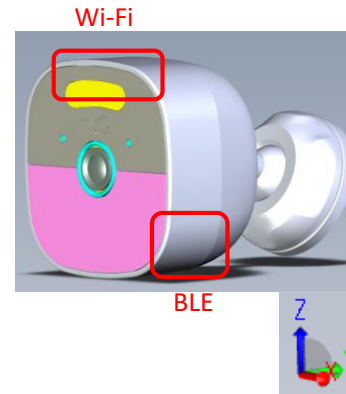
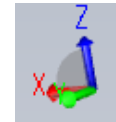
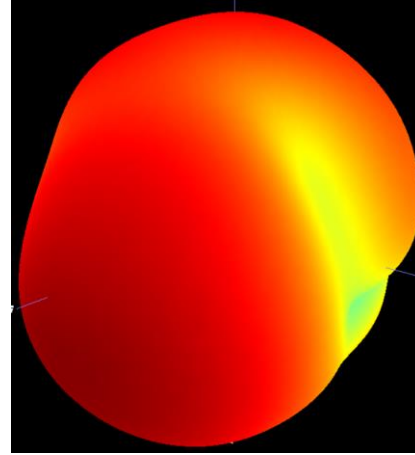
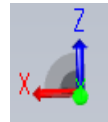
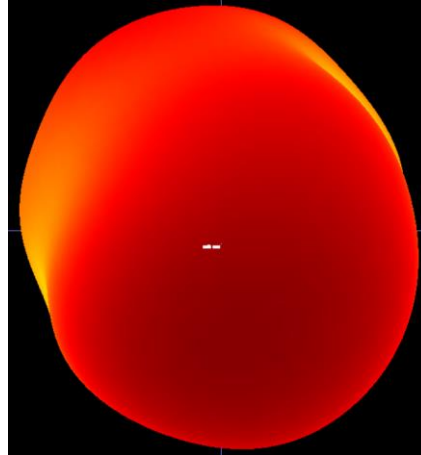
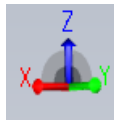
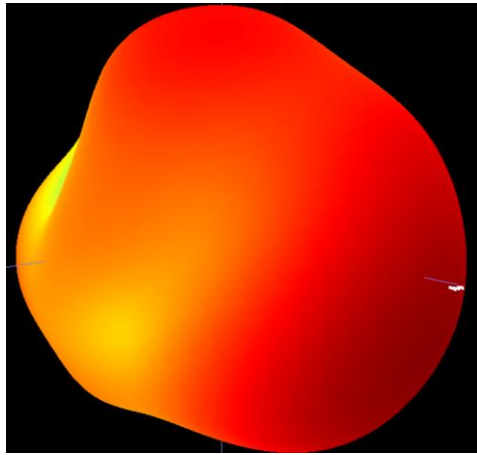


XY-Plane



3D Radiation Patterns _ Wi Fi

3D Radiation Patterns



3D Radiation Patterns _ BLE

3D Radiation Patterns

