

品名：**RFFPA281324IMAB301**

History List

[illegible]

品名：RFFPA281324IMAB301

客戶：光峰

客戶料號：E22030000202

1. Explanation of part number：

RF	FPA	2813	24	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	FPC Antenna	Per 2 digits of length, width e.g.: 2924 Length 29.6mm, Width 24.7mm	2 digits for cable length e.g.: 33 Length 33.5cm	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: $\varnothing$ 0.81 2: $\varnothing$ 1.32 3: $\varnothing$ 1.13 4: Low Loss $\varnothing$ 1.13 5: $\varnothing$ 0.5 6: RG316 7: $\varnothing$ 1.37 8: RG178 9: Low Loss $\varnothing$ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz
Return Loss	-10 dB(Max)
Gain(peak)	3.8 dBi
VSWR	< 2.0
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



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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

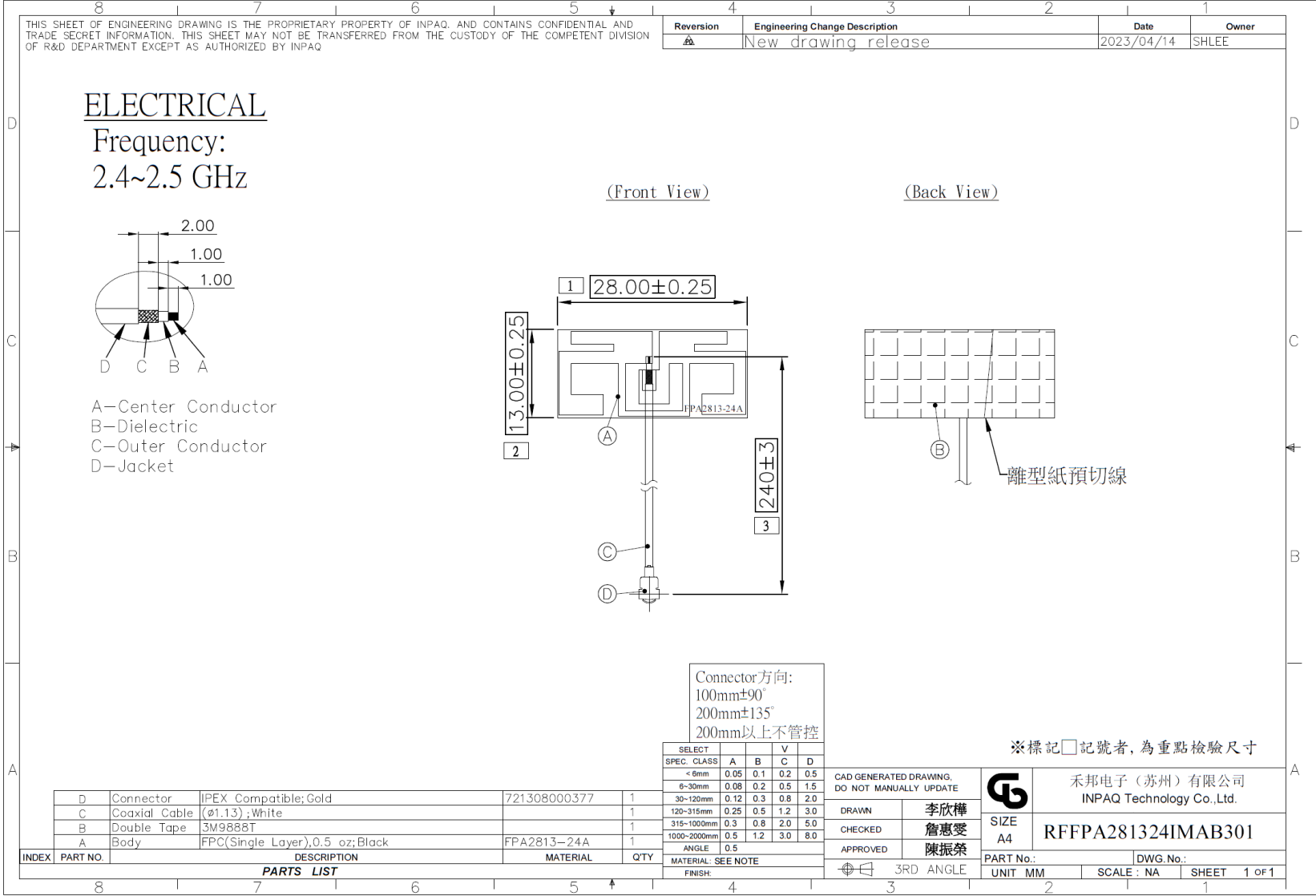
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3. Antenna Drawing :

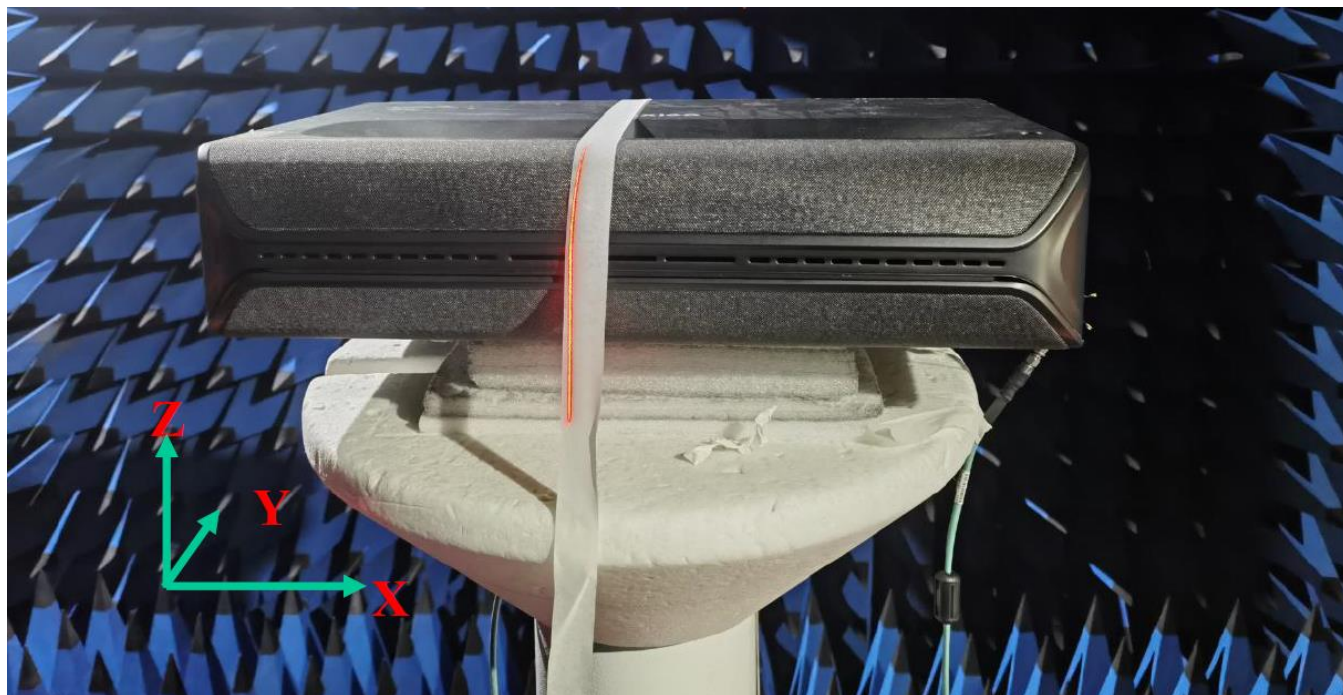


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ANGLES = N/A	HOLEDIA = N/A		
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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
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4. Performance Report :

Test Report

■ Experimental Setup



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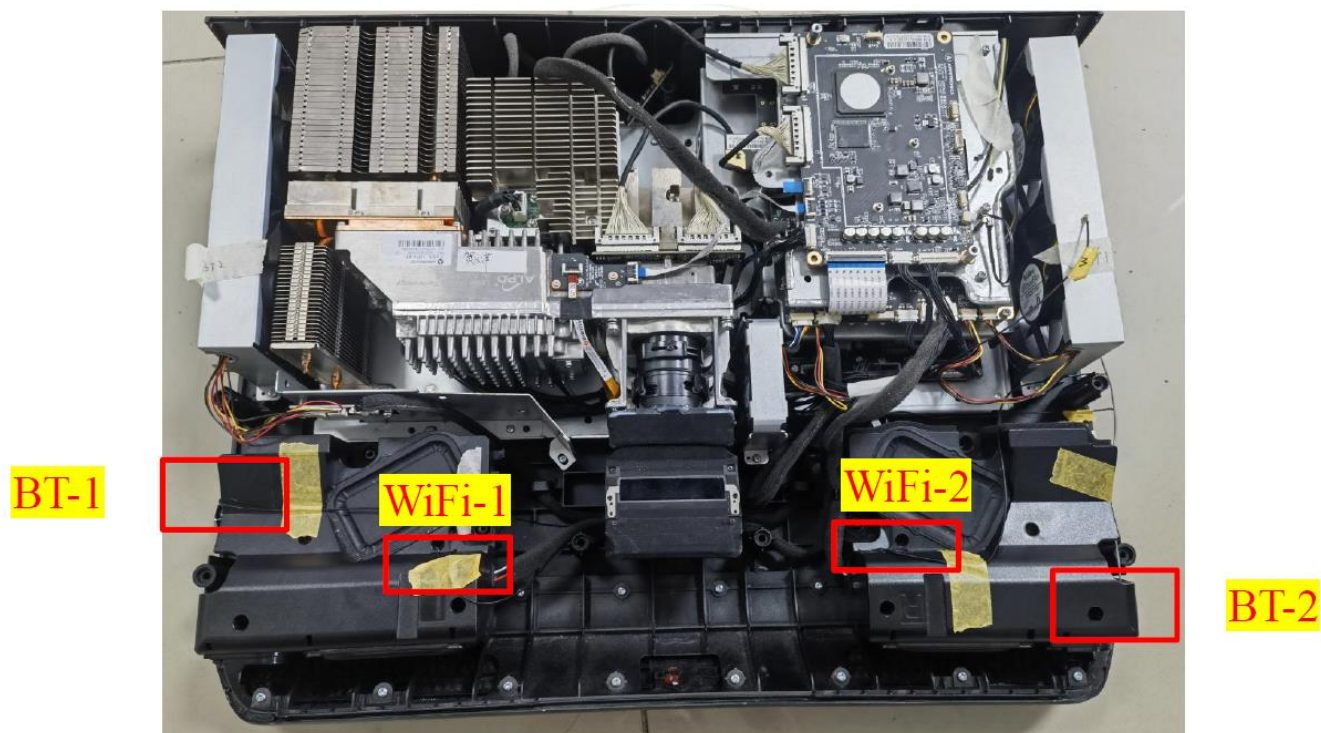
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■ Antenna Solution Detail



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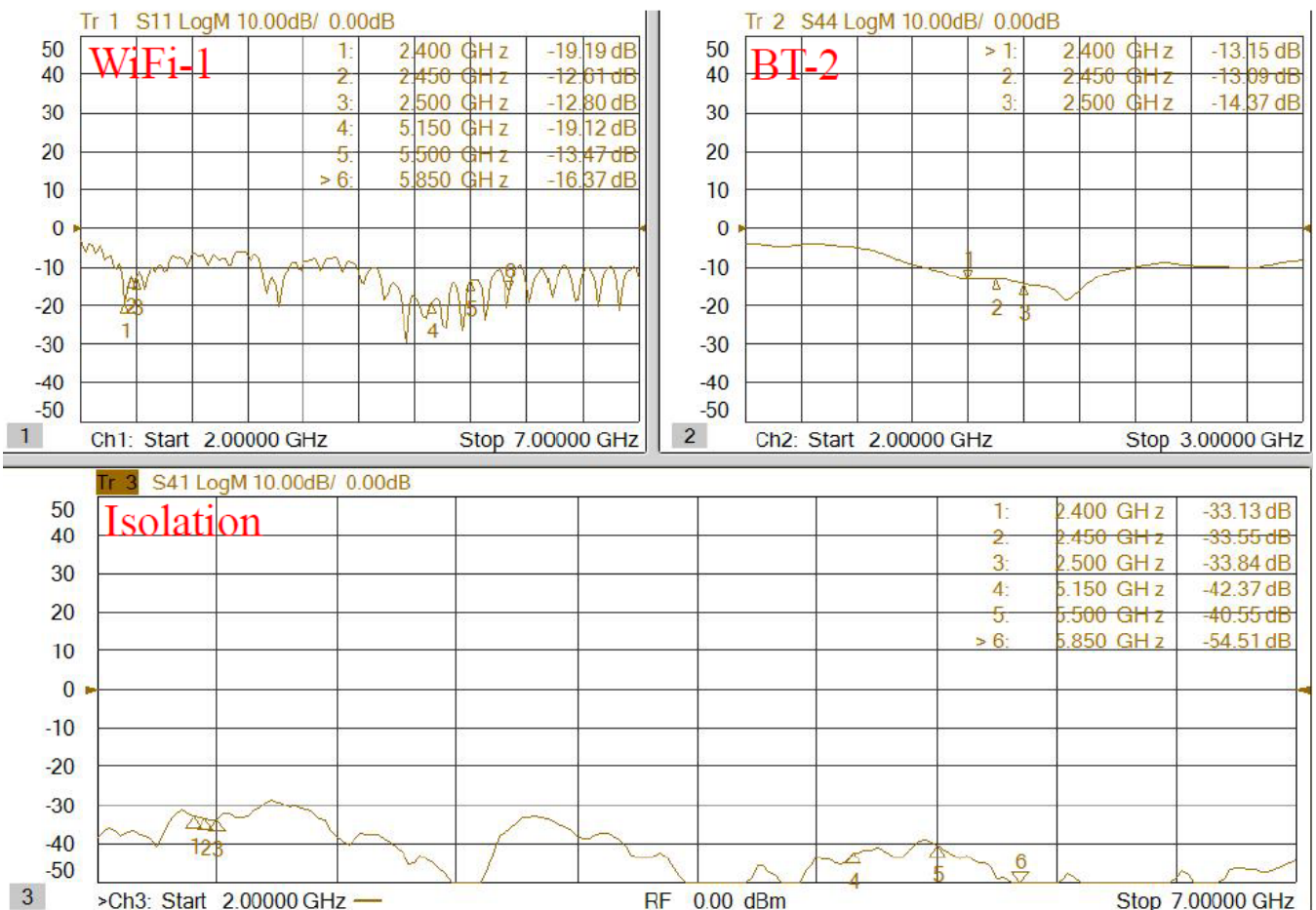
APPROVED BY : 陳振榮

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ELECTRICAL CHARACTERISTICS**Return Loss & Isolation****BT-2**

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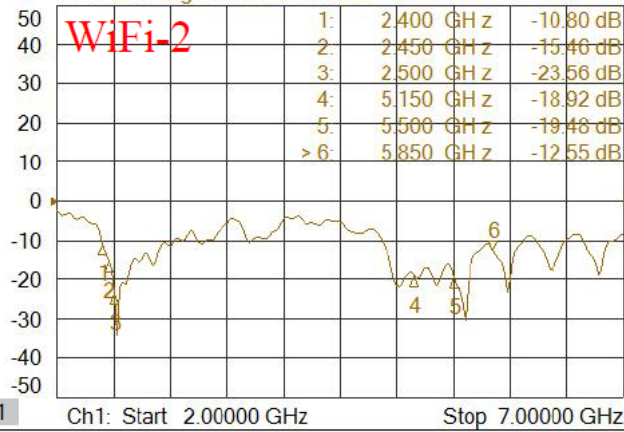
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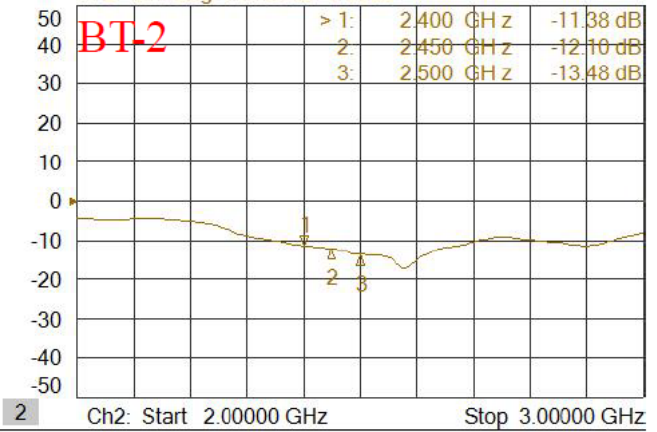
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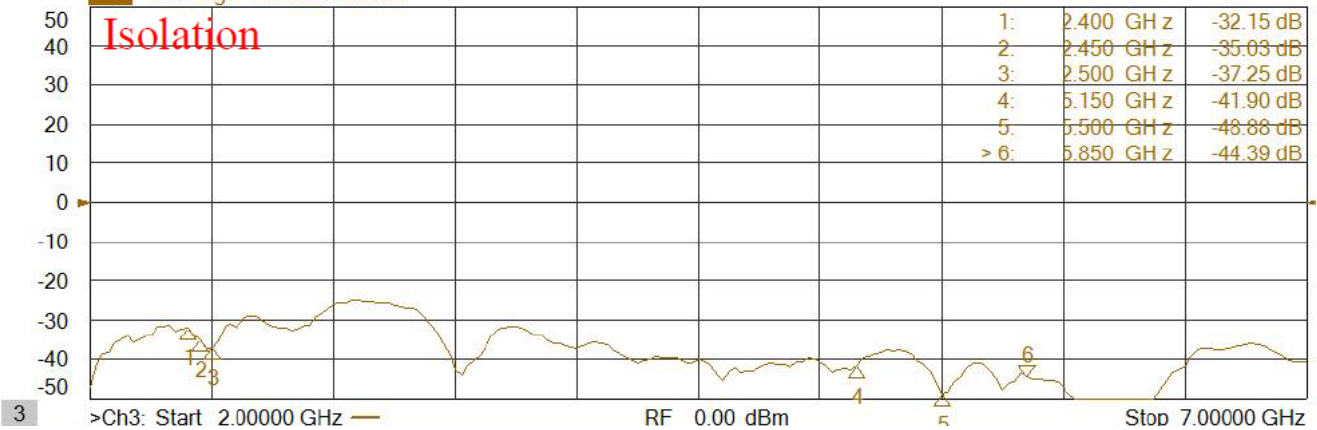
Tr 1 S11 LogM 10.00dB/ 0.00dB



Tr 2 S44 LogM 10.00dB/ 0.00dB



Tr 3 S41 LogM 10.00dB/ 0.00dB



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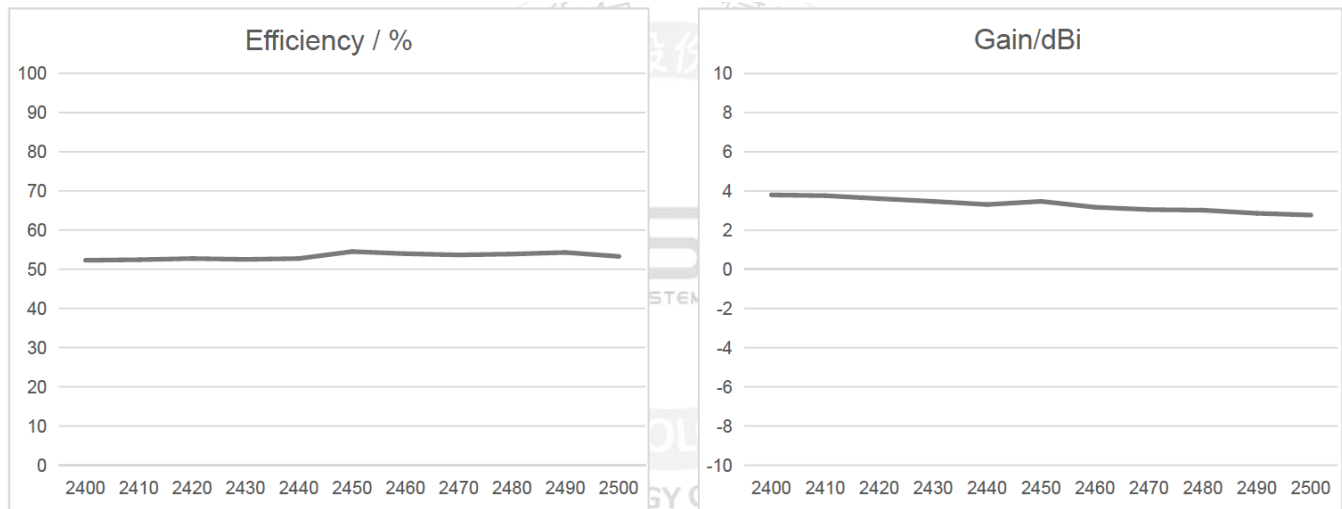
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■ Antenna Efficiency & Peak Gain

2G

Maximum Efficiency at 2450 MHz : 54.51 %

Maximum Peak Gain at 2400 MHz : 3.8 dBi

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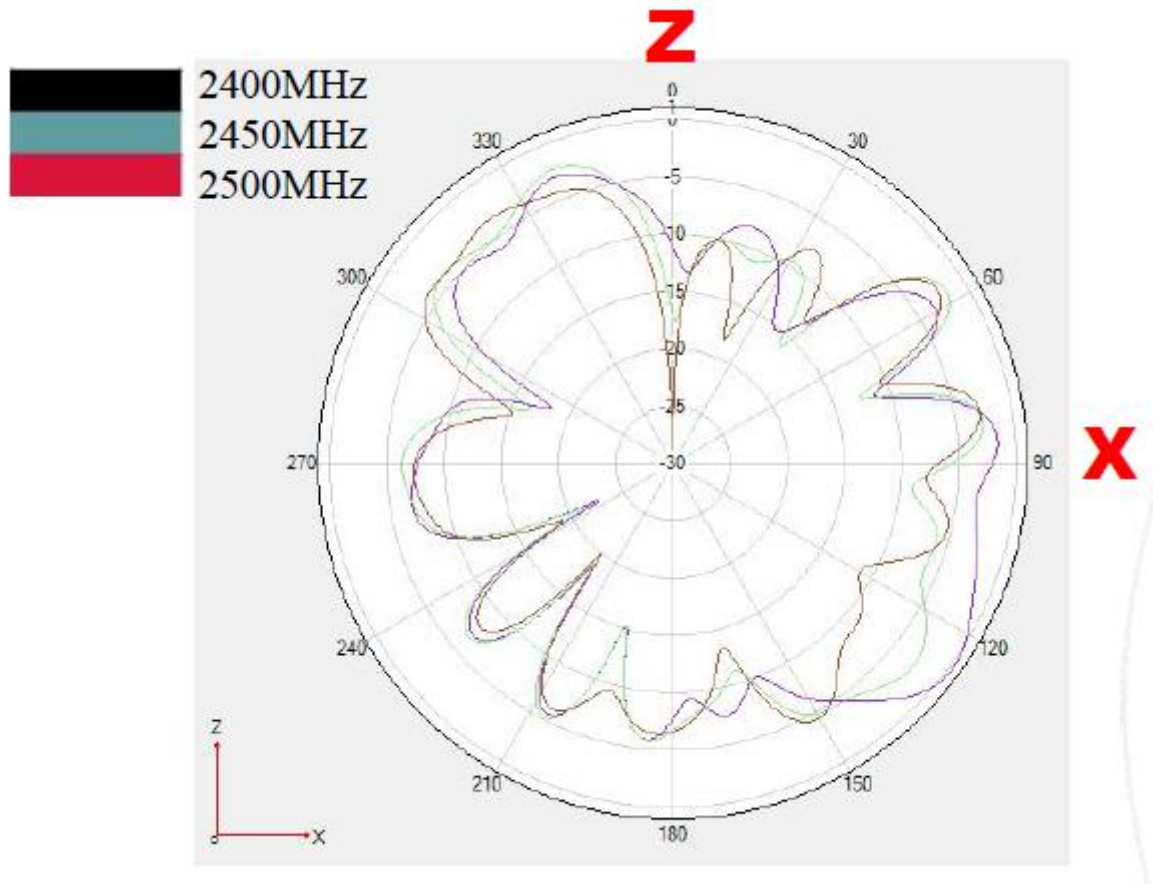
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dB



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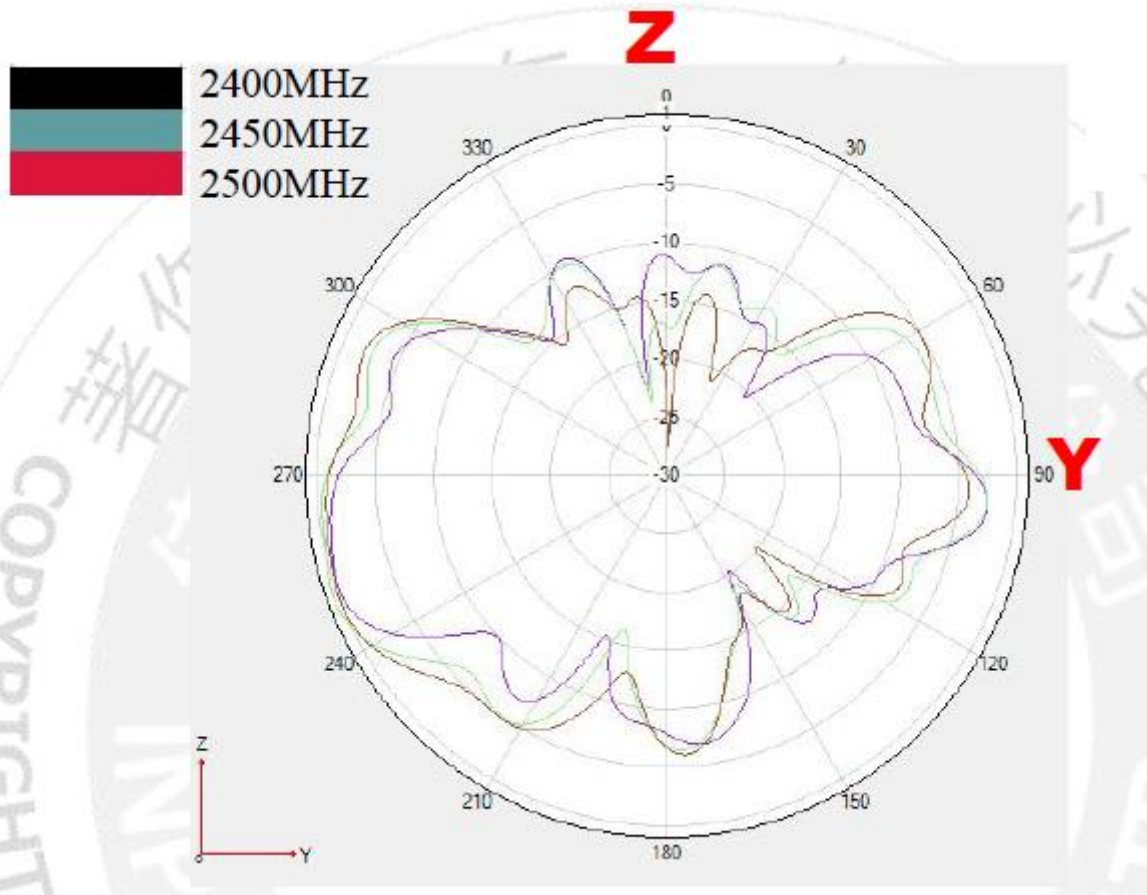
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Phi=90.00deg

Gain . dB



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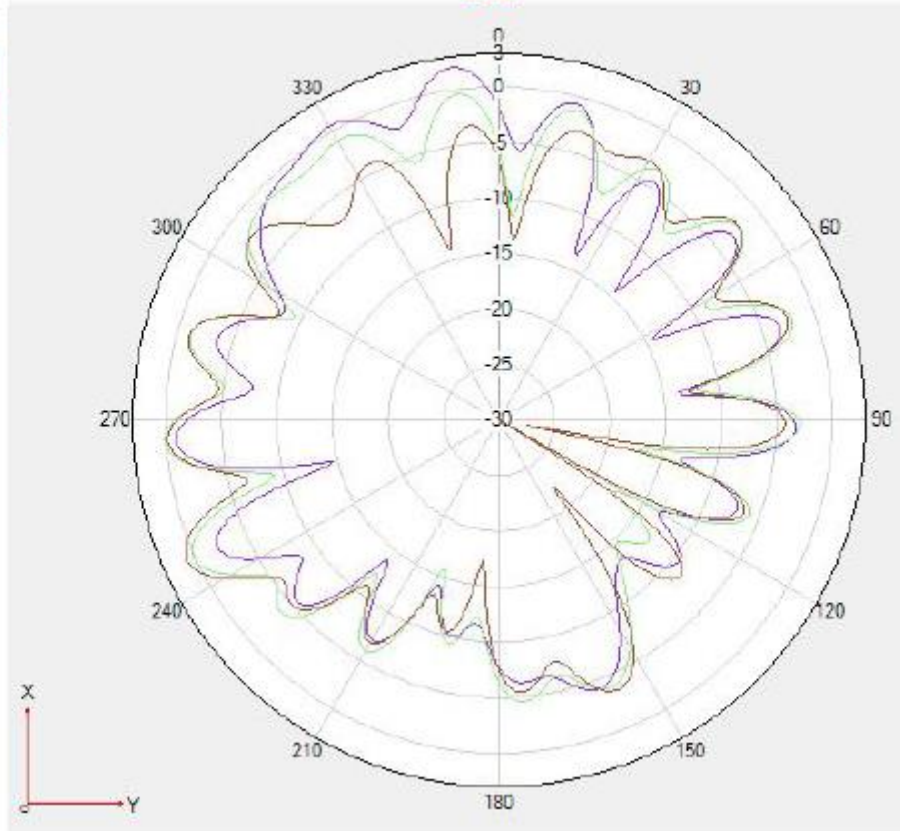
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Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	0.23	-6.57	-0.2	-8.22	2.03	-5.39
2450	-1.81	-7.03	0.49	-7.29	0.21	-5
2500	-2.4	-7.75	0.04	-7.4	0.86	-5.75

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