

品名：RFFPA281310IMLB302

客戶：光峰

客戶料號：E22030000215

1. Explanation of part number：

RF	FPA	2813	10	I	M	L	B	3	02
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 / 5.15 ~ 5.85 GHz
Return Loss	-10 dB(Max)
Gain(peak)	3.7 dBi@2.4~2.5 GHz 3.87 dBi@5.15~5.85 GHz
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

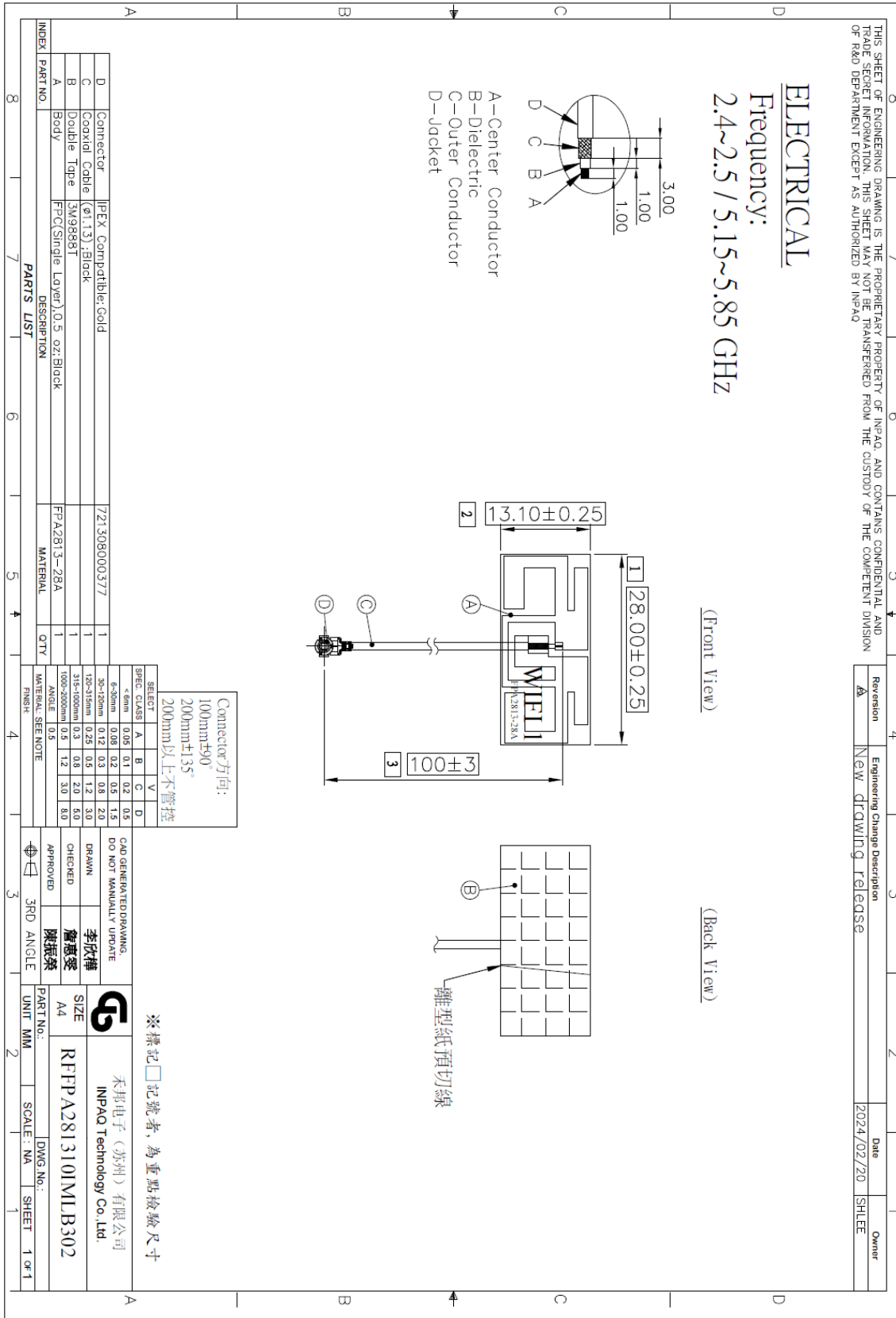
APPROVED BY : 陳振榮

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NO.SPEC REV.
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3. Antenna Drawing :



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4. Performance Report :

Test Report**■ Experimental Setup**

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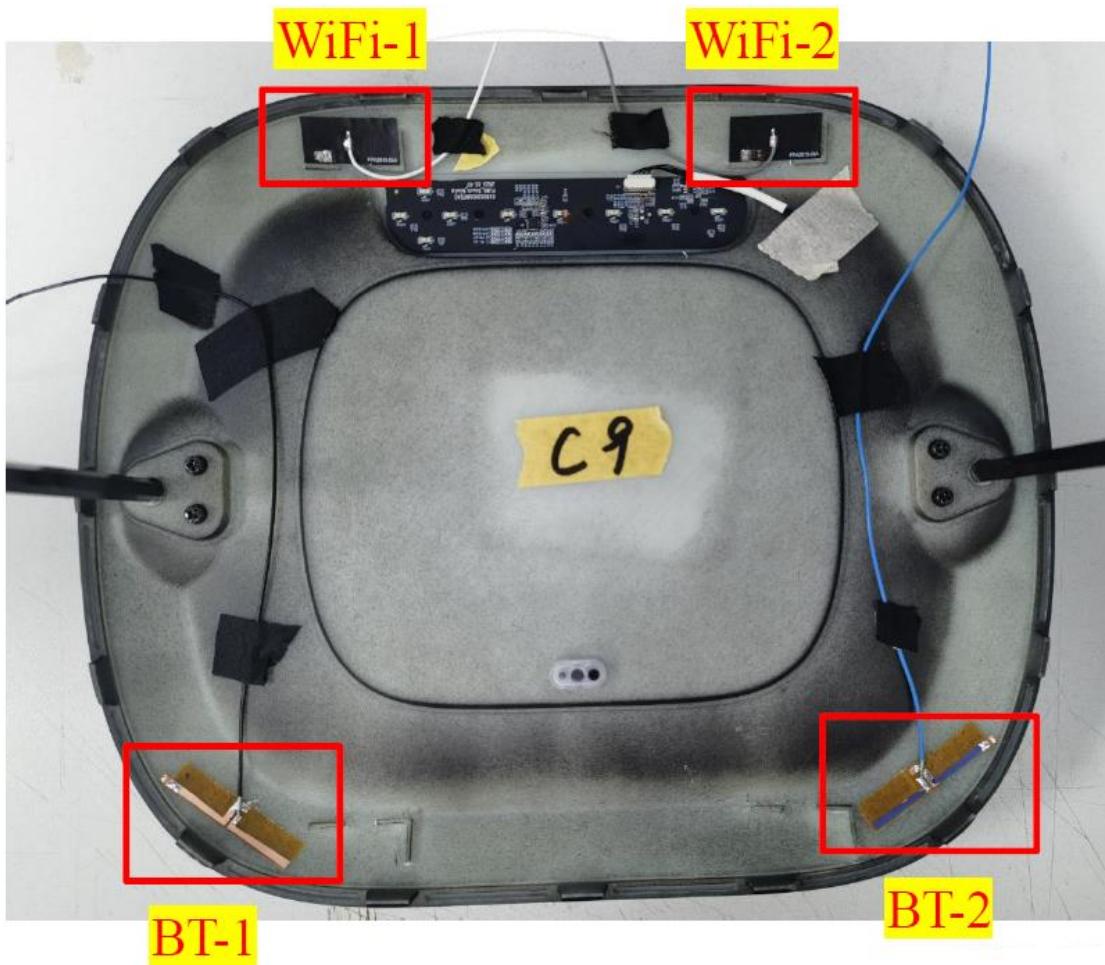
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■ Antenna Solution Detail



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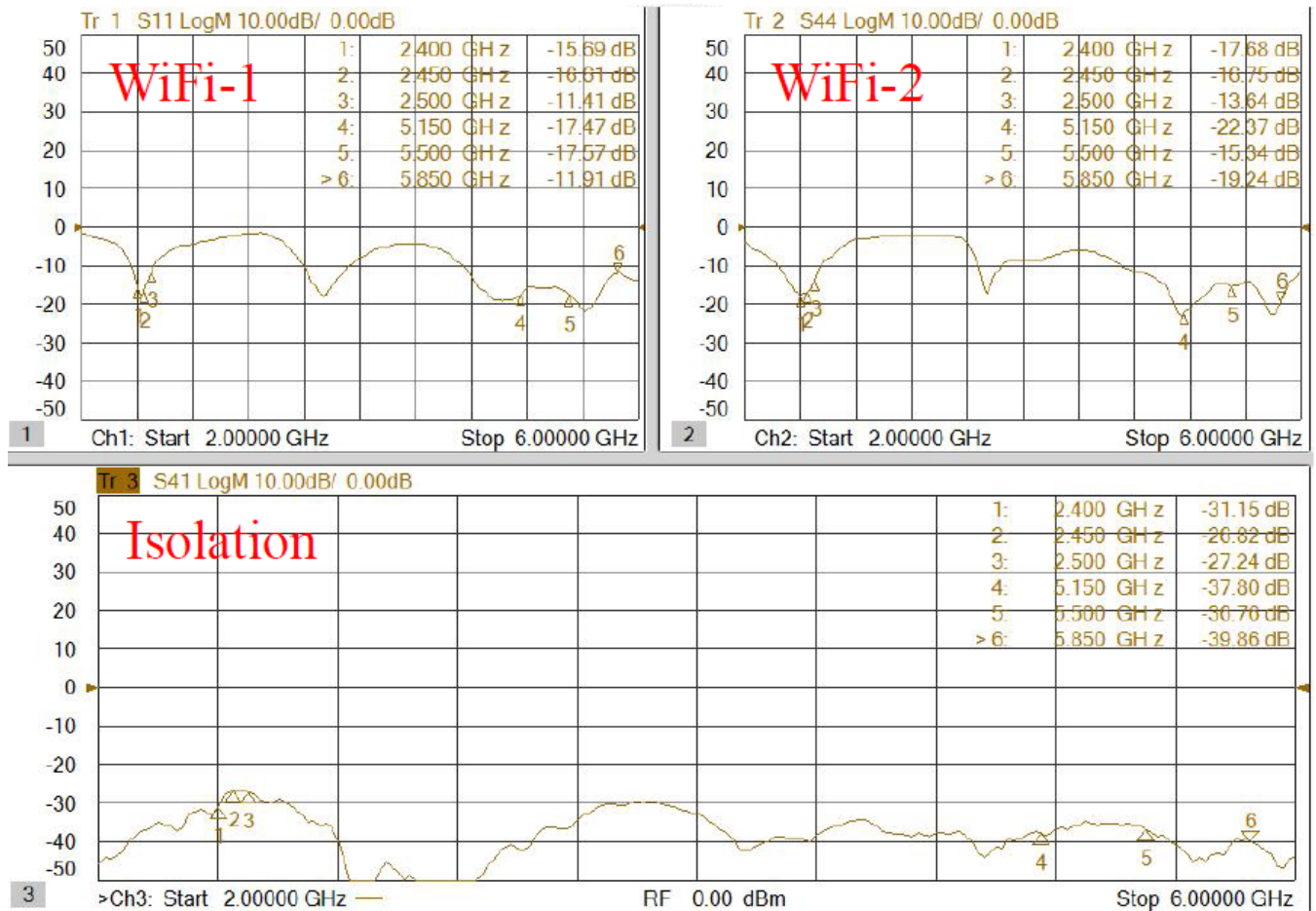
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ELECTRICAL CHARACTERISTICS**Return Loss & Isolation****WiFi-1**

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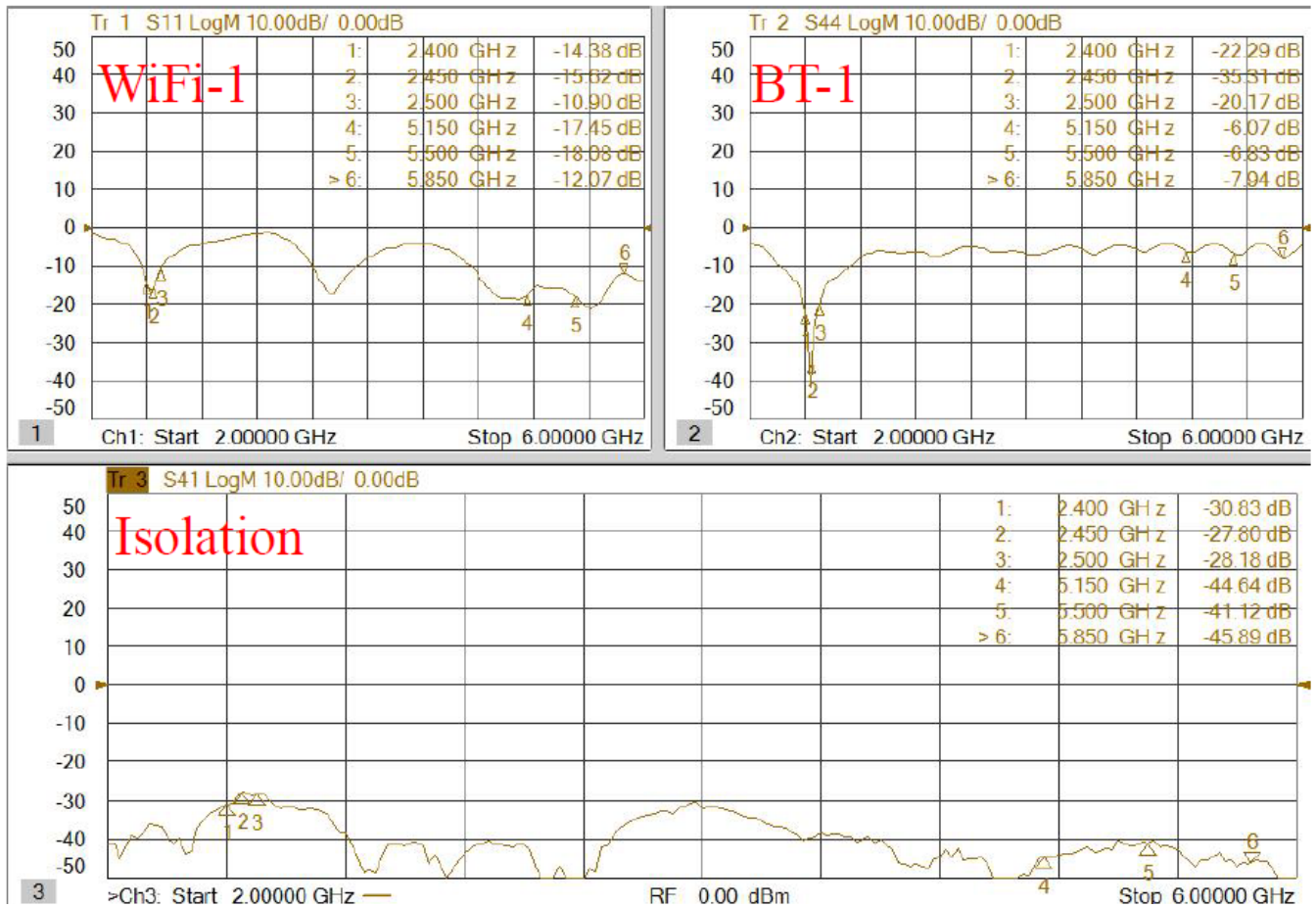
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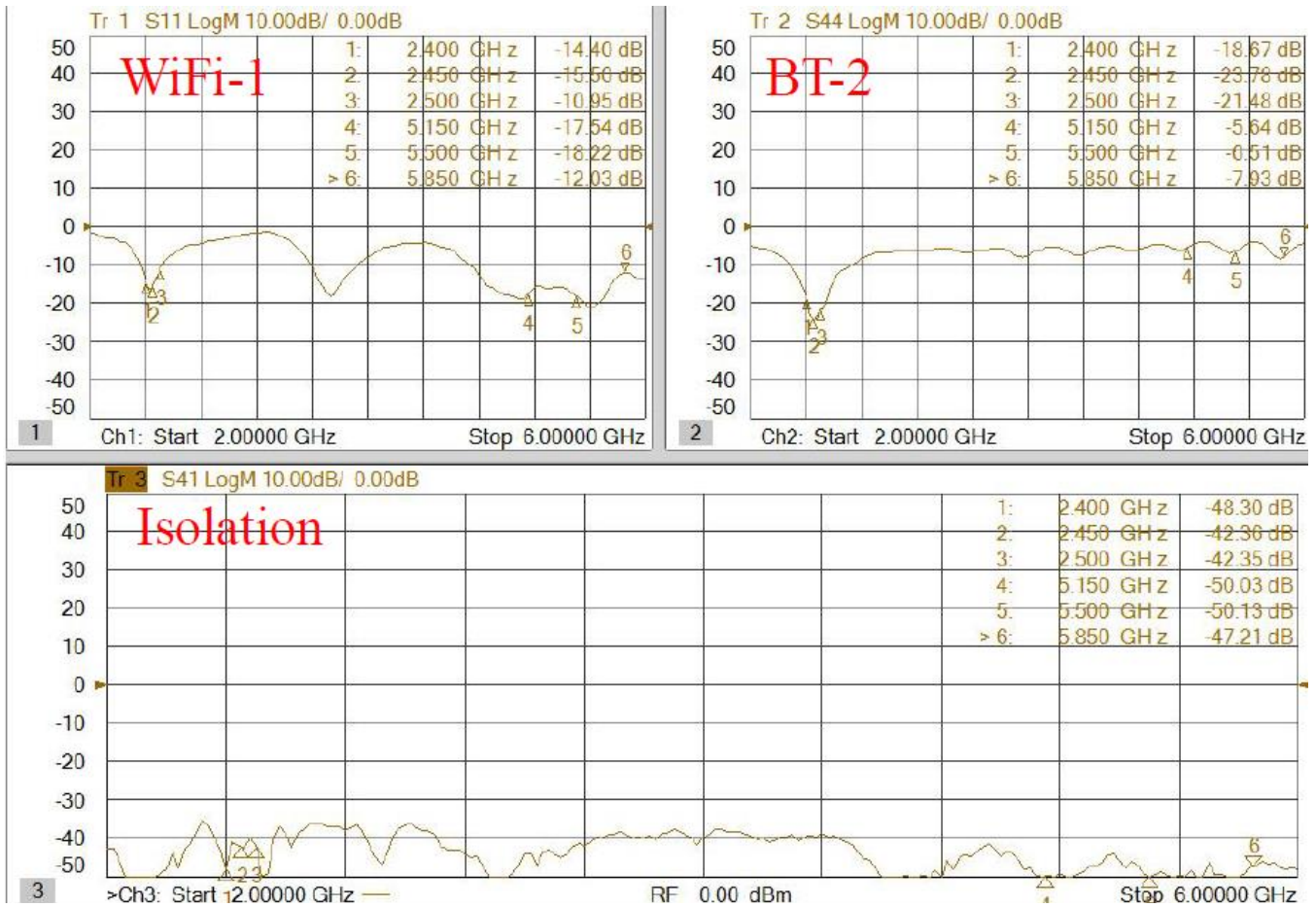


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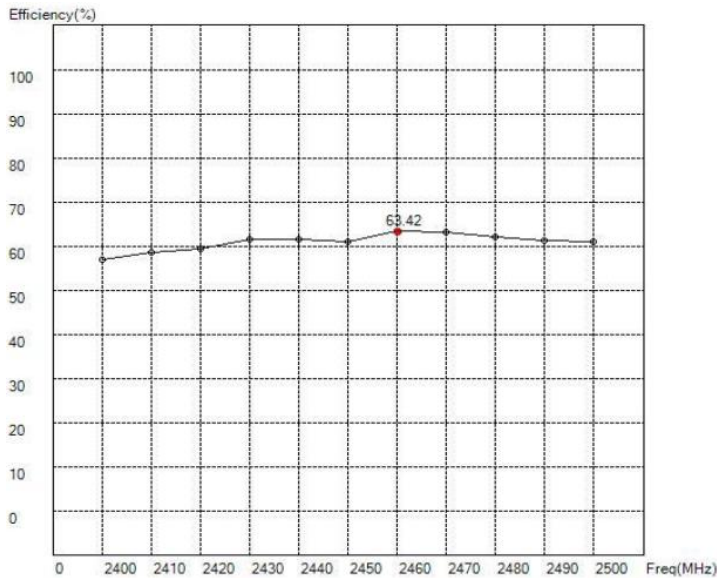
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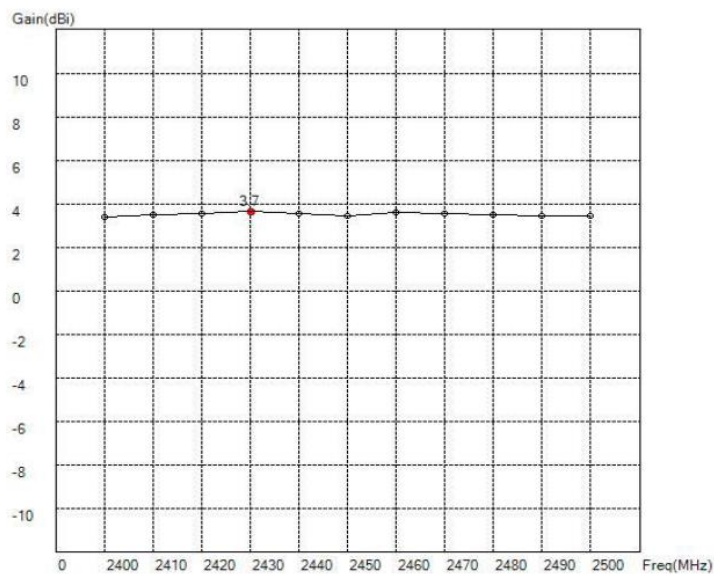
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Antenna Efficiency & Peak Gain

2G



Maximum Efficiency at 2460 MHz : 63.42 %



Maximum Peak Gain at 2430MHz : 3.7dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



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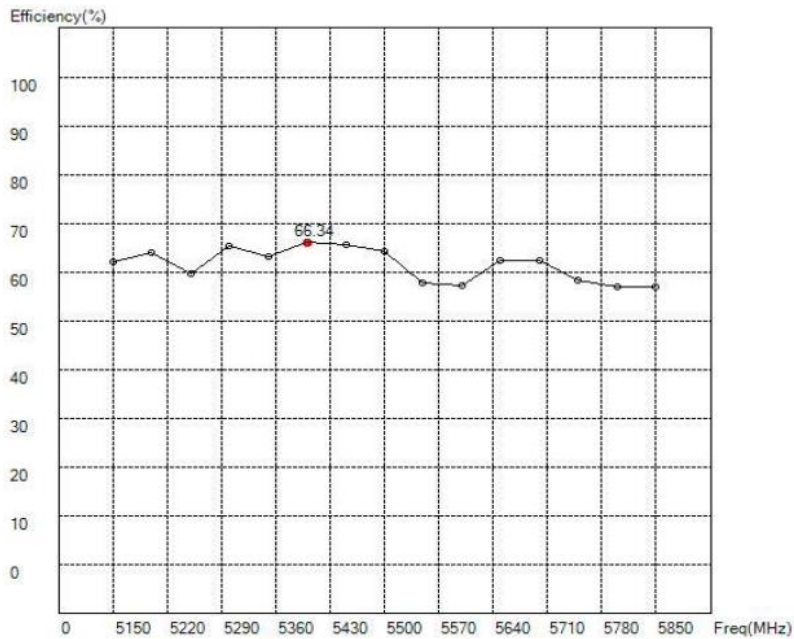
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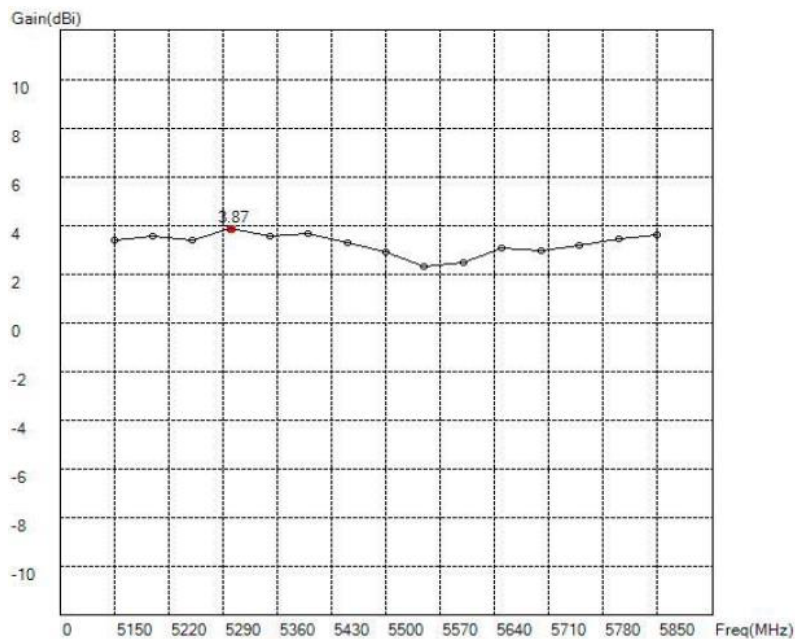
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5G



Maximum Efficiency at 5400 MHz : 66.34 %



Maximum Peak Gain at 5300MHz : 3.87dBi

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

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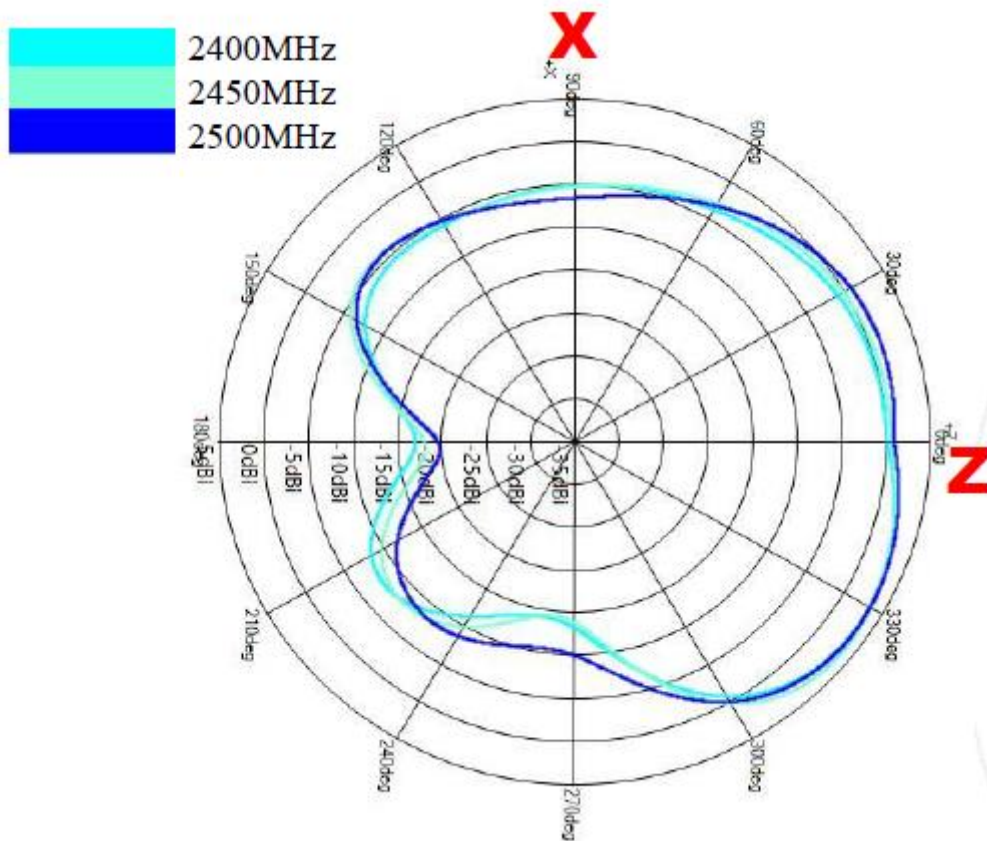
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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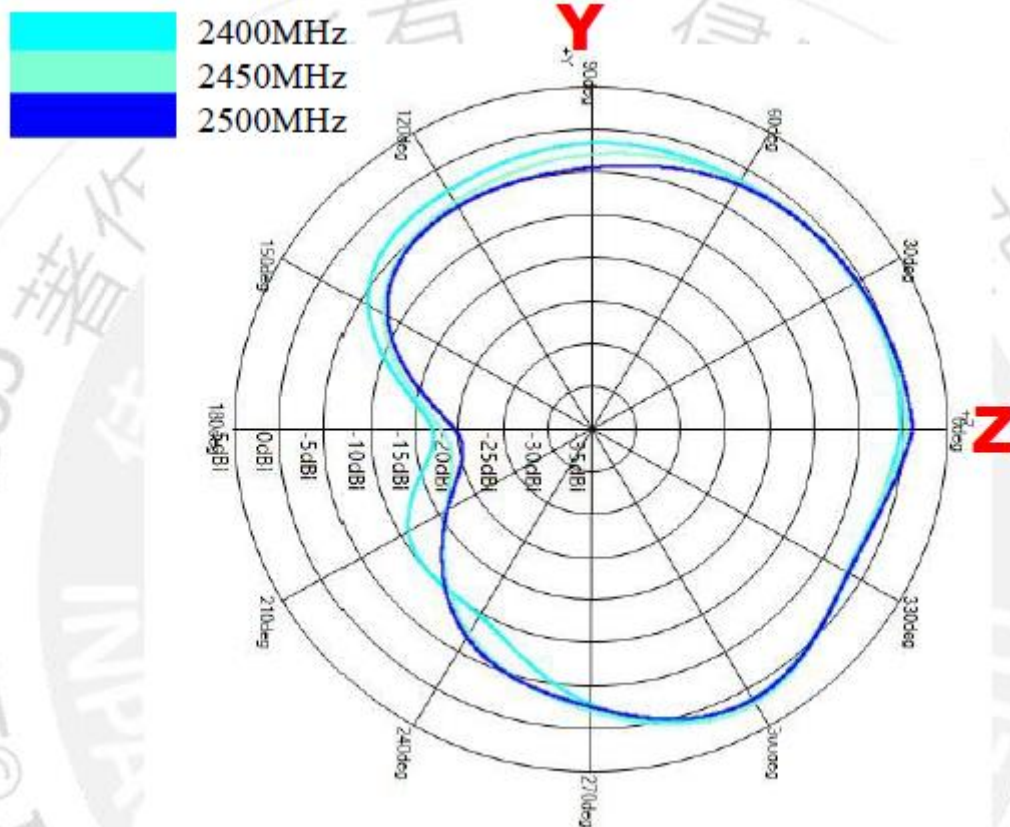
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Phi=90.00deg

Gain . dB



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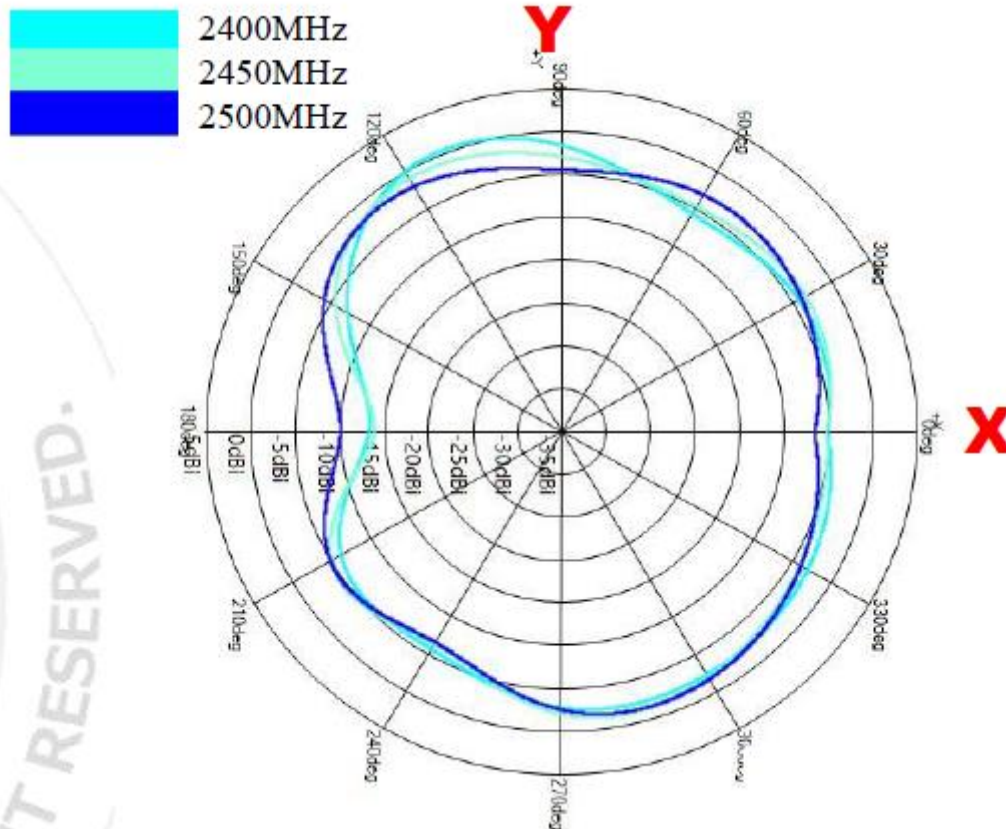
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Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	3.41	-1.84	1.32	-1.66	0.10	-3.77
2450	3.48	-1.42	1.87	-1.54	-0.83	-3.83
2500	3.46	-1.24	1.40	-1.55	-1.71	-3.98

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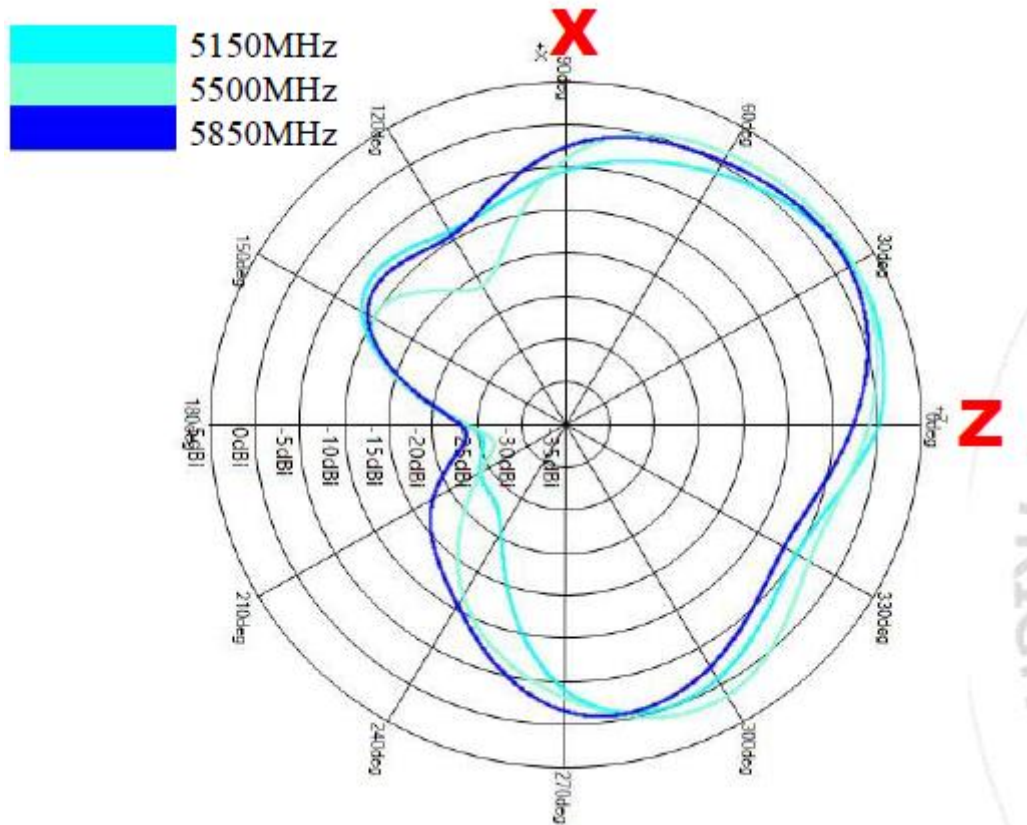
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5150~5850 MHz

Phi=0.00deg

Gain . dB



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 ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

UNIT : mm

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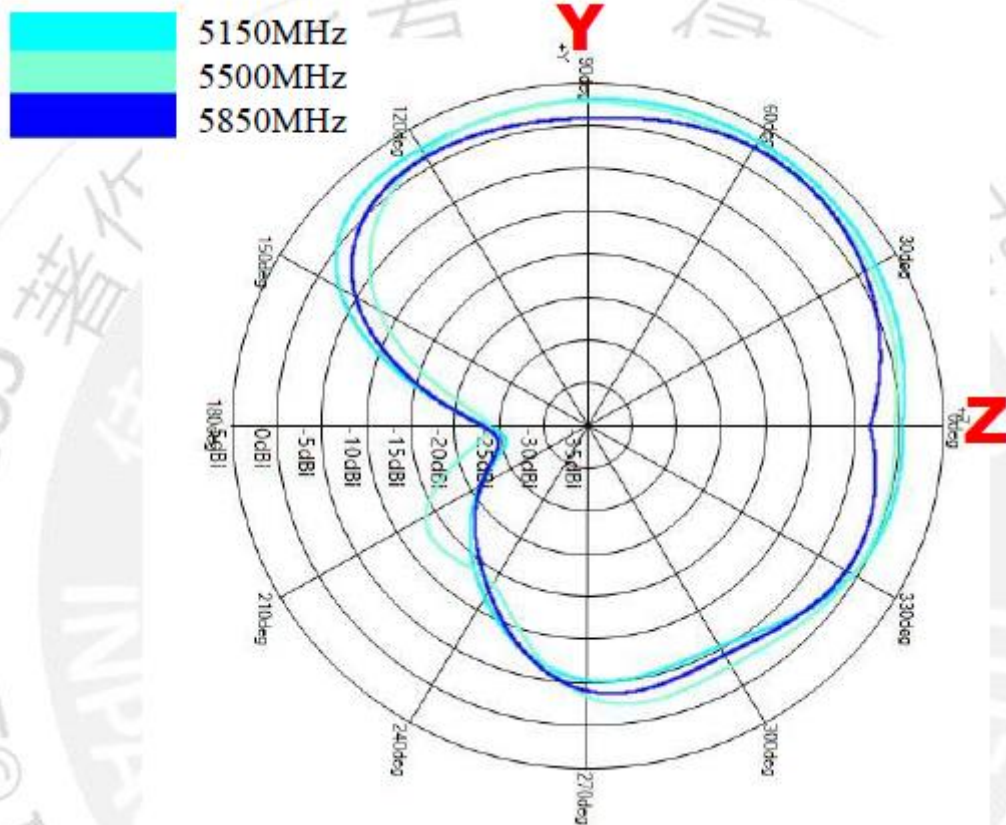
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Phi=90.00deg

Gain . dB



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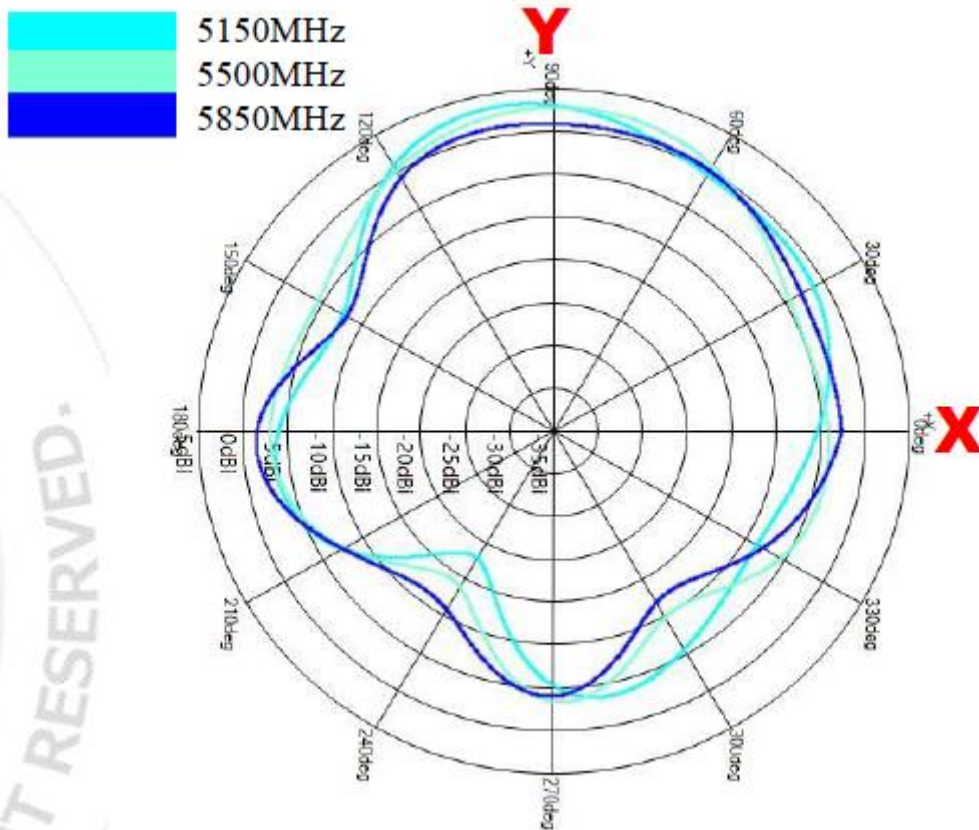
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Gain . dB



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