

品名：RFPCA430964EMLB902

1. Explanation of part number :

RF	PCA	4309	64	E	M	L	B	9	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	PCB Antenna	Per 2 digits of length, width e.g.: 2924 Length 29.6mm, Width 24.7mm	2 digits for cable length e.g.: 40 Length 40cm	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 / 5.15 ~ 5.85 GHz
Return Loss	-10 dB(Max)
Gain(peak)	3.19 dBi@2.4~2.5 GHz 3.38 dBi@5.15~5.85 GHz
VSWR	2 max.
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20°C ~ +65°C

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

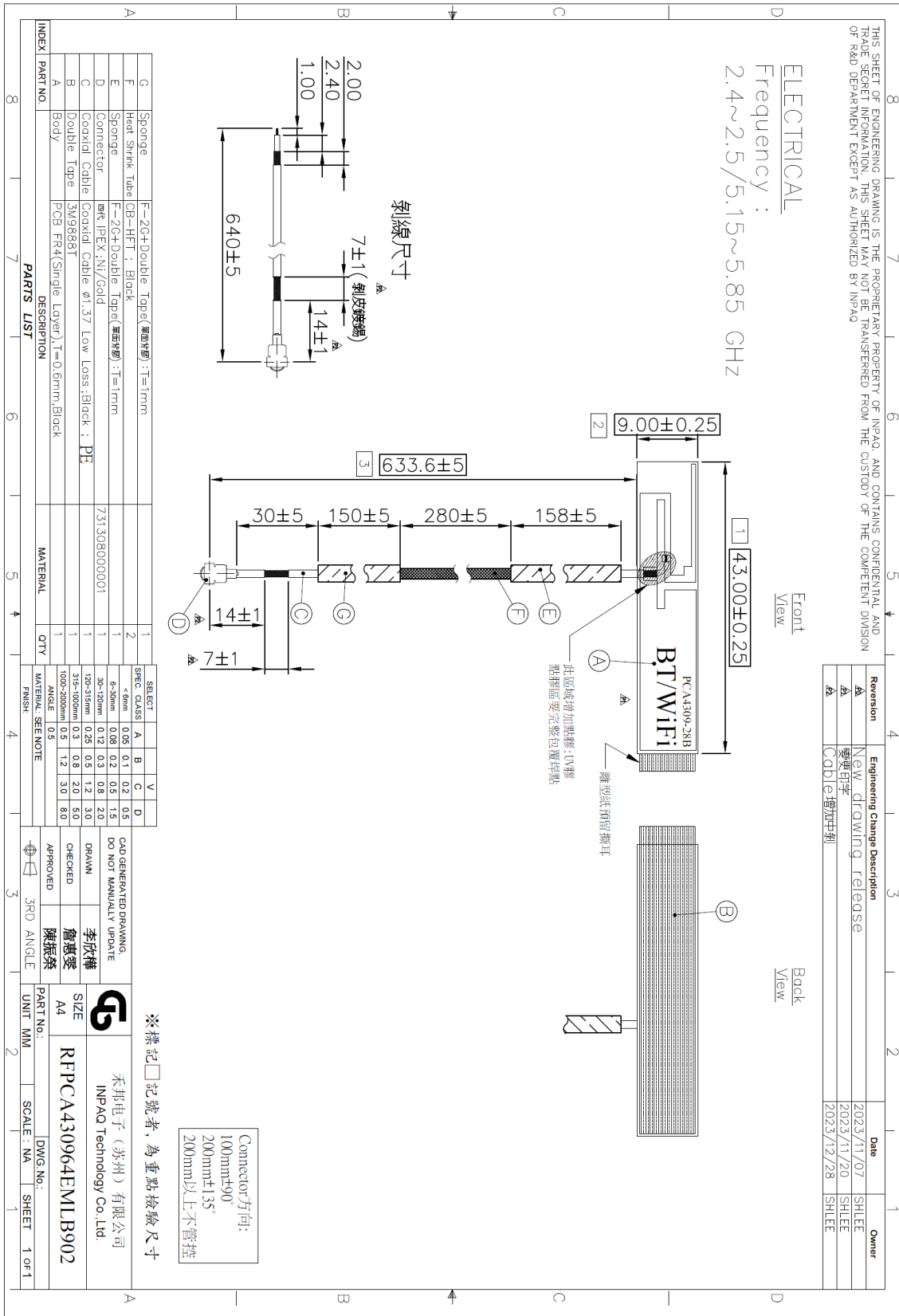
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3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
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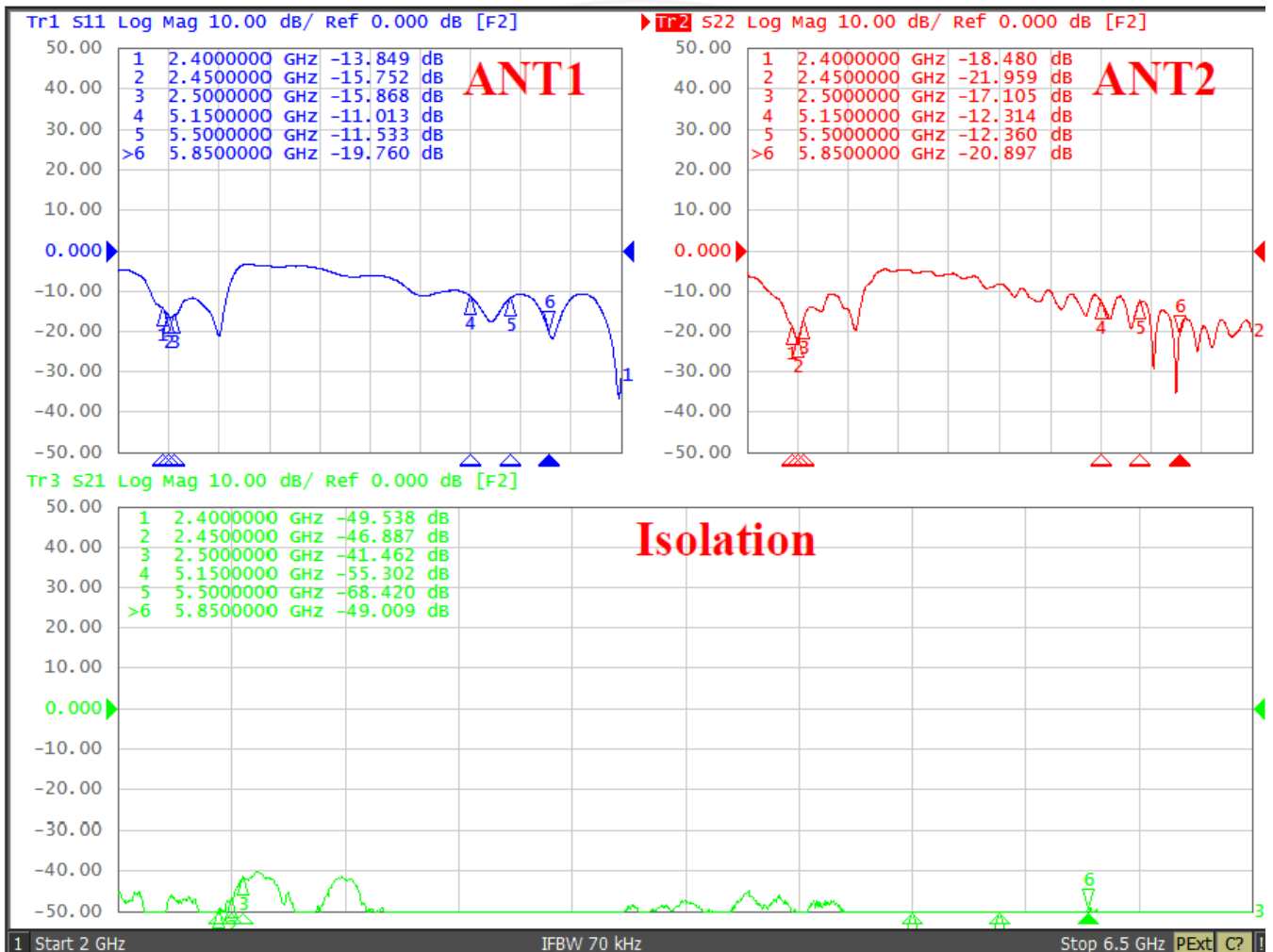
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4. Performance Report :

ELECTRICAL CHARACTERISTICS

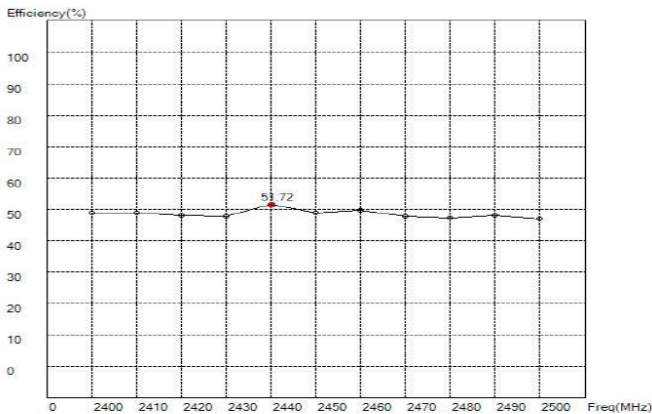
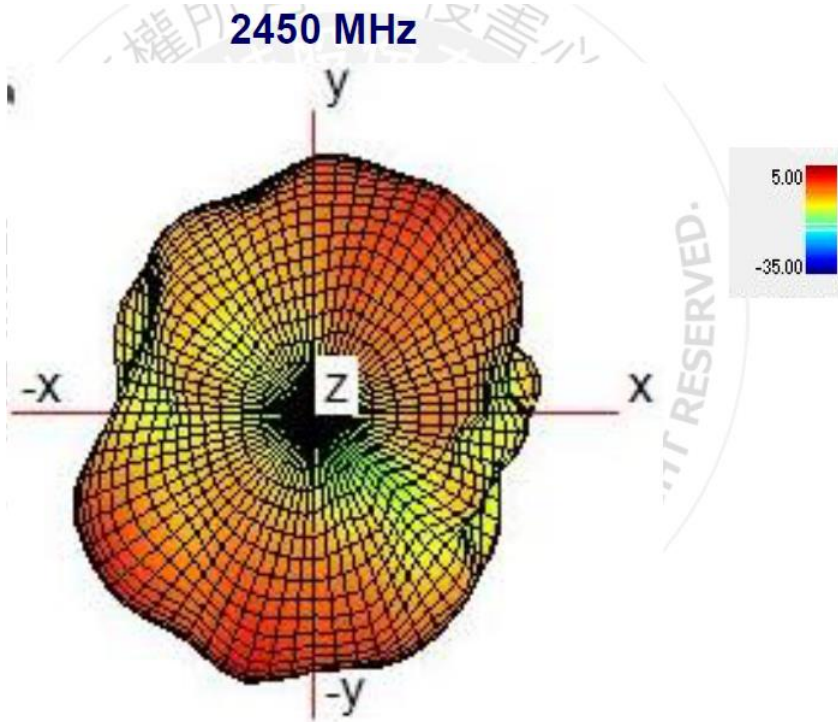
Retune Loss & Isolation

ANT2

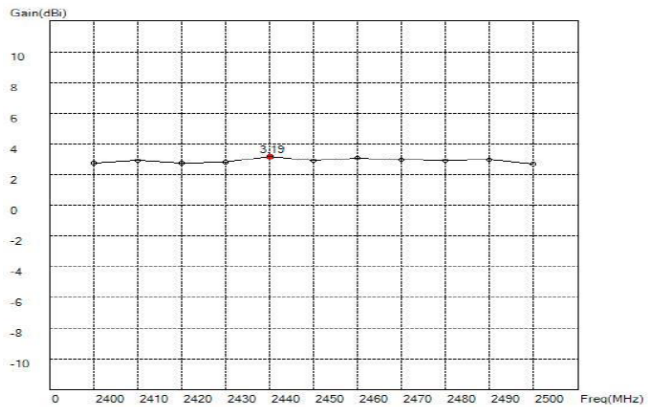


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ANGLES=N/A HOLEDIA=N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮	
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Antenna Efficiency & Peak Gain



Maximum Efficiency at 2440 MHz : 51.72 %



Maximum Peak Gain at 2440 MHz : 3.19 dBi

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



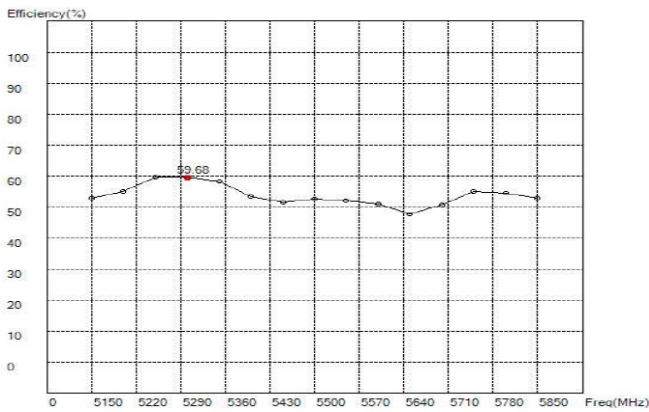
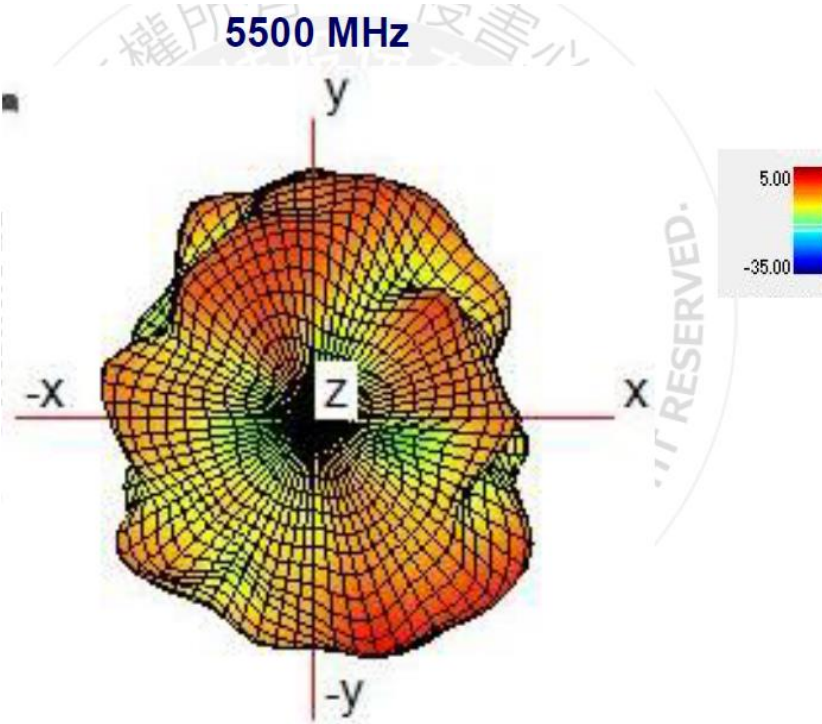
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SCALE : N/A UNIT : mm
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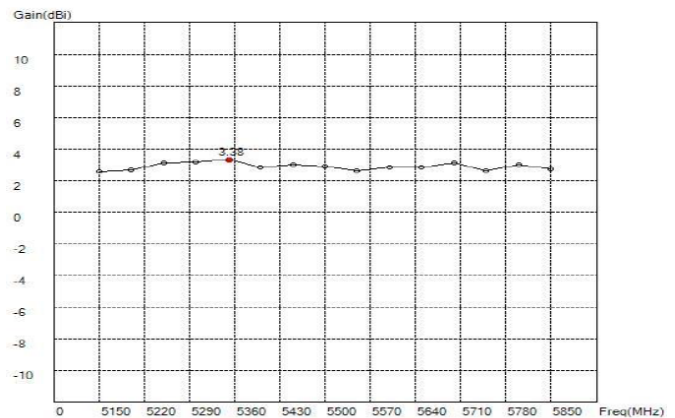
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Maximum Efficiency at 5300 MHz : 59.68 %



Maximum Peak Gain at 5350 MHz : 3.38 dBi

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
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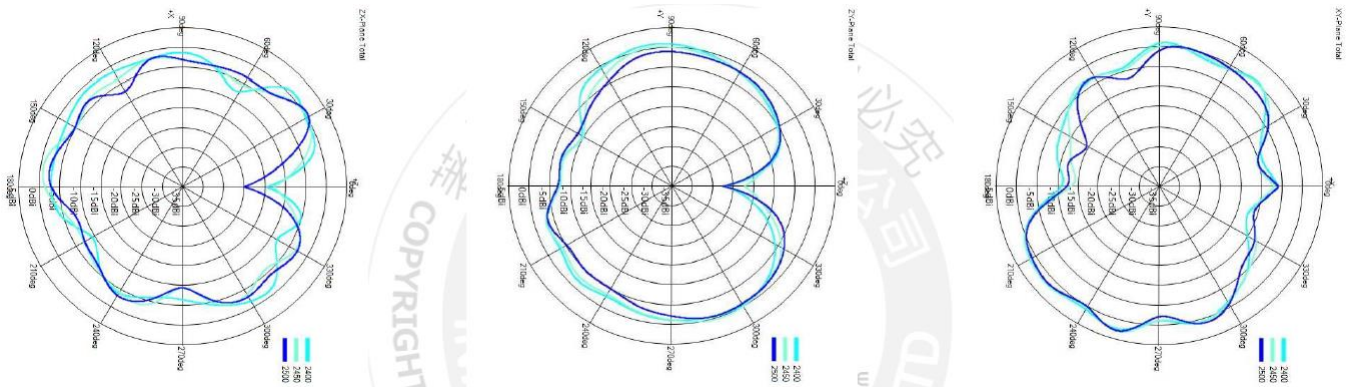
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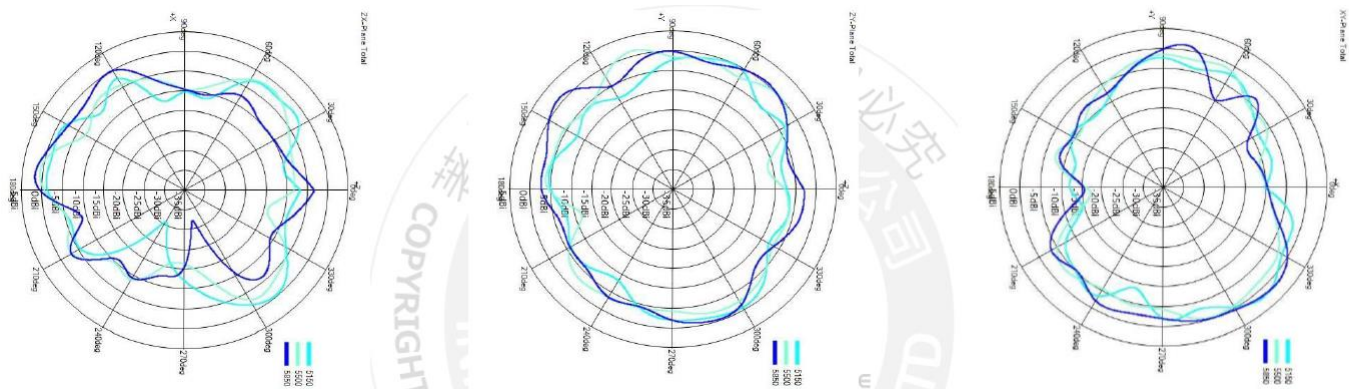
RADIATION PATTERN

2G



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	0.43	-3.45	0.94	-2.59	2.28	-1.83
2450	0.29	-4.27	0.24	-2.84	2.82	-1.88
2500	0.56	-4.48	-0.66	-3.55	2.68	-2.24

5G



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	-0.80	-5.42	-0.56	-4.23	1.82	-4.19
5500	-0.74	-6.04	1.40	-3.35	-0.56	-4.30
5850	0.32	-6.11	0.37	-2.38	1.71	-3.31

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