

品名：RFPCA853007NNUB301

History List

[illegible]

1.Explanation of part number :

RF	PCA	8530	07	N	N	U	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
Walsin RF Device	PCA: PCB Antenna	Per 2 digits of length, width e.g.: 8530 Length 85.0mm, Width 30.0 mm	2 digits for cable length e.g.:07 Cable Length:7.0 cm	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: 2.4/5.2/5.8 GHz tri-band N: NFC T:LTE band U: UHF(470~860MHz) Lora(433、868、915MHz) Sigfox(868MHz ; 915MHz) 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:Low Loss Ø1.37	01~99 series number

2.Electrical Specification :

Item	Specification
Working Frequency Range	840 / 940 MHz
Return Loss	-10 dB (Max.)
VSWR	2 Max.
Peak Gain	2.55 dBi@868 MHz 2.80 dBi@915 MHz
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω
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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 詹惠雯

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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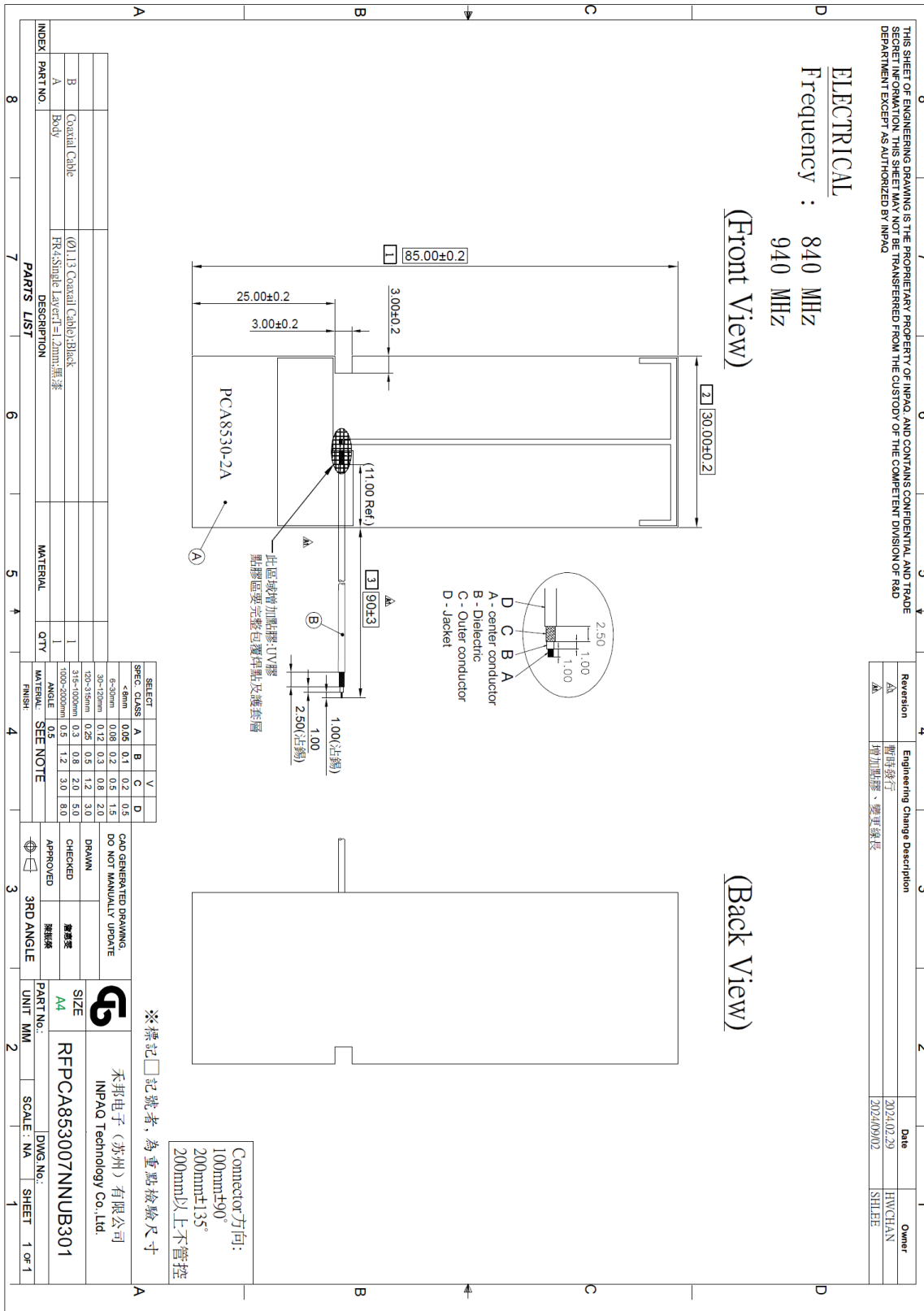
TITLE : RFPCA431209IMLB301

DOCUMENT NO.

ENS070033200-000803723299

SPEC REV.
A1

3. Antenna Drawing :



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SPEC REV.
A1

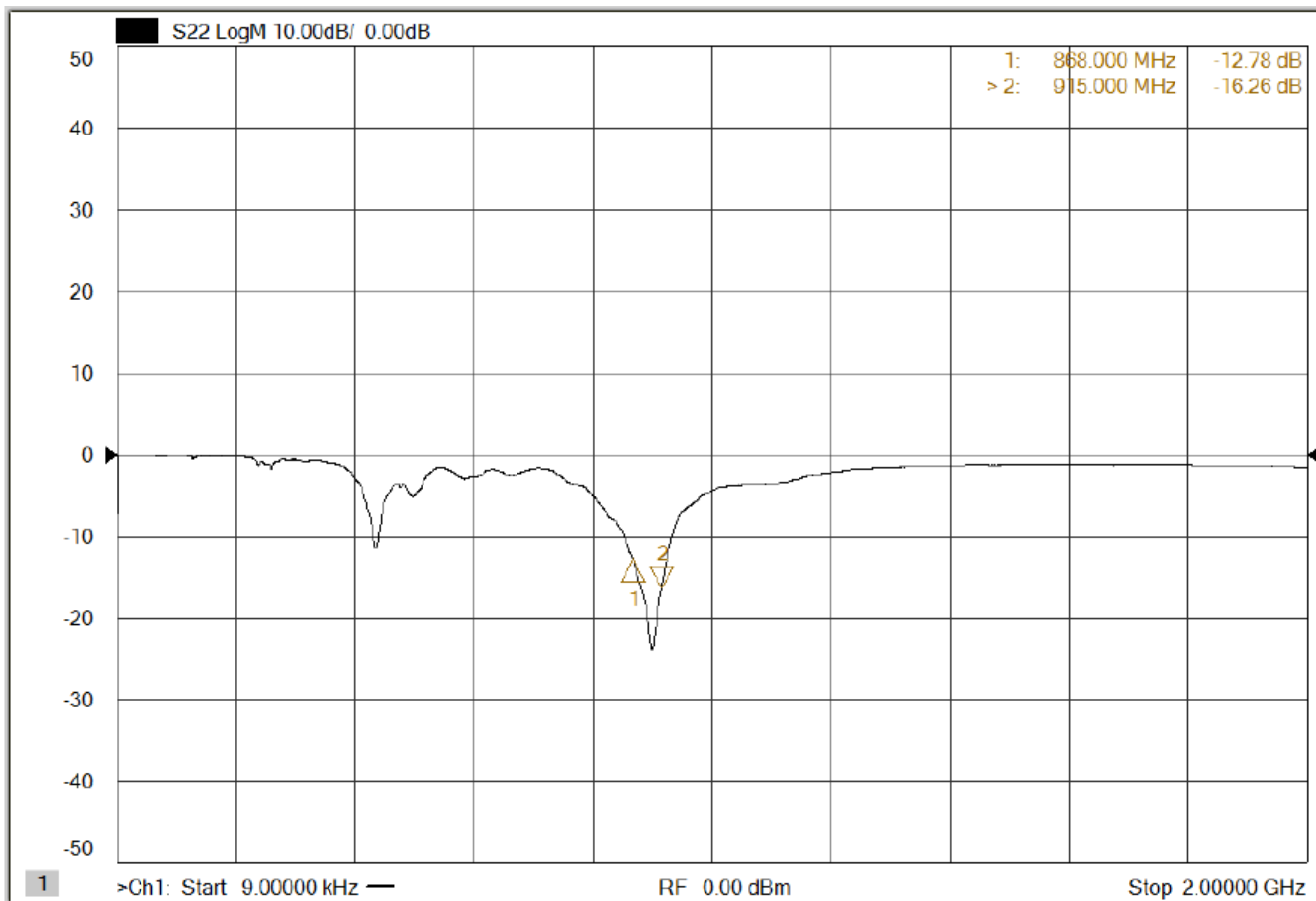
4. Performance Report :

Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss

ANT_868/915MHz



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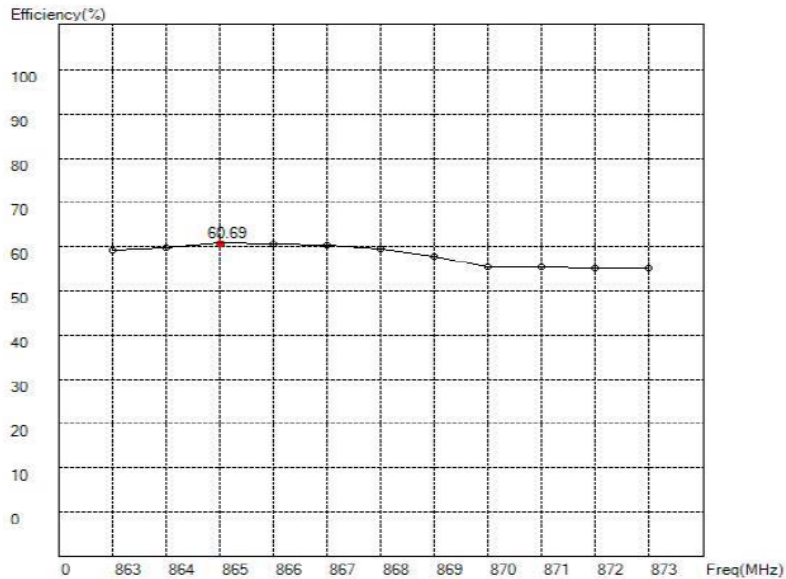
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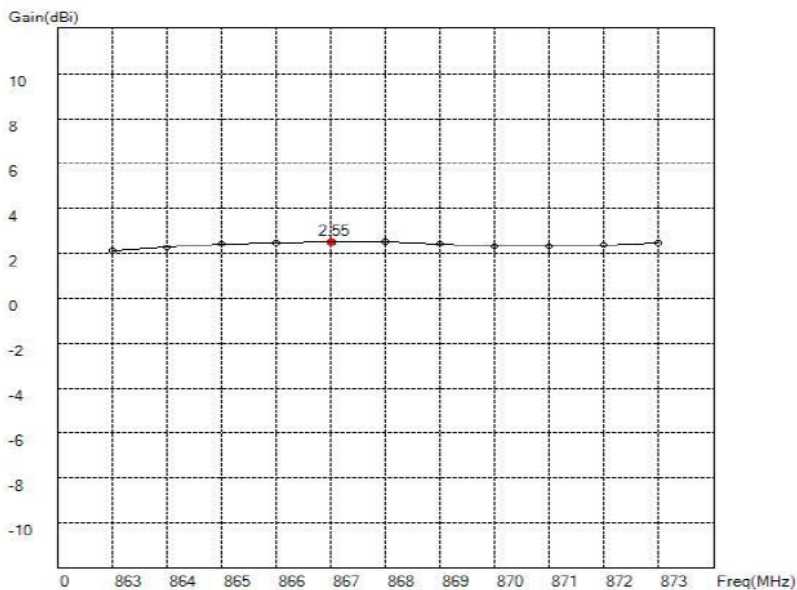
SPEC REV.
A1

Efficiency & Peak Gain

868MHz



Maximum Efficiency at 865 MHz : 60.69 %



Maximum Peak Gain at 867 MHz : 2.55 dBi

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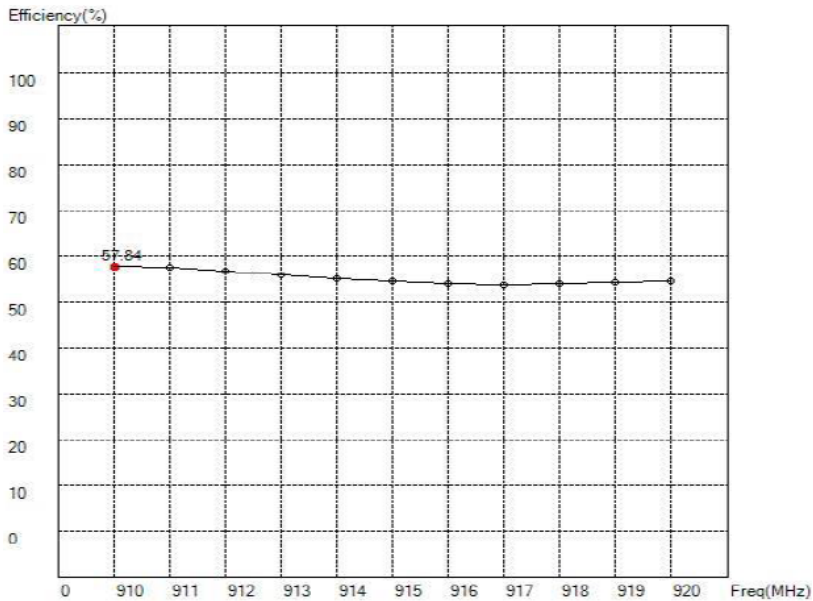
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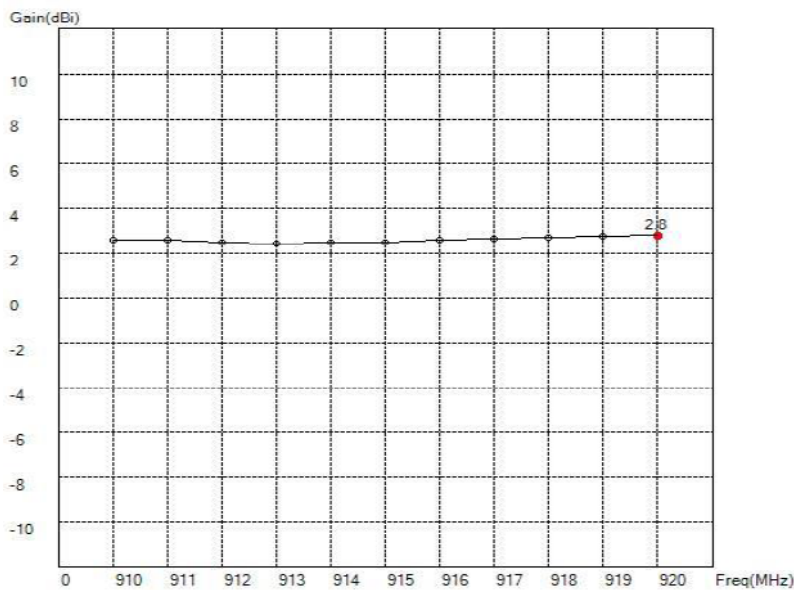
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SPEC REV.
A1

915MHz



Maximum Efficiency at 910 MHz : 57.84 %



Maximum Peak Gain at 920 MHz : 2.80 dBi

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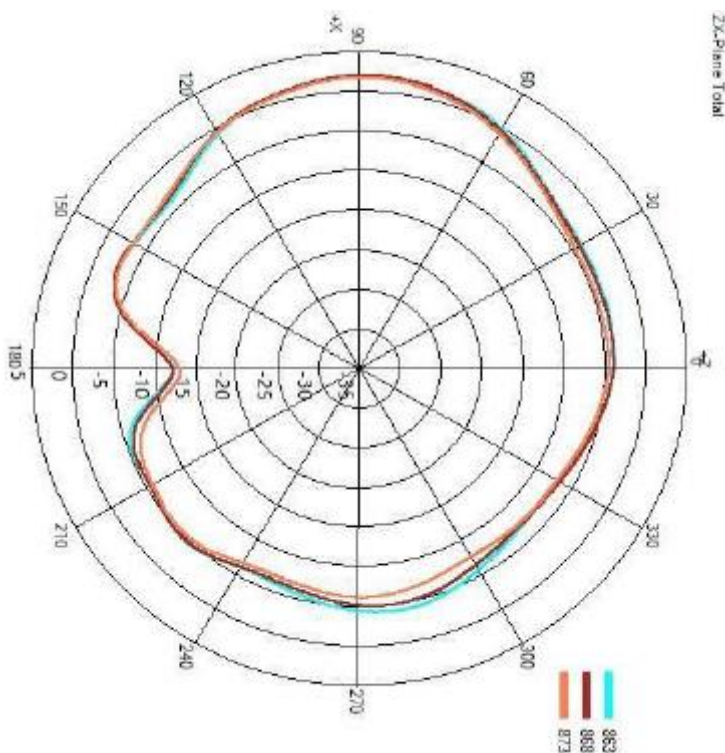
Radiation Patterns

863-873MHz

X-Z Plane

Phi=0.00deg

Gain . dBi



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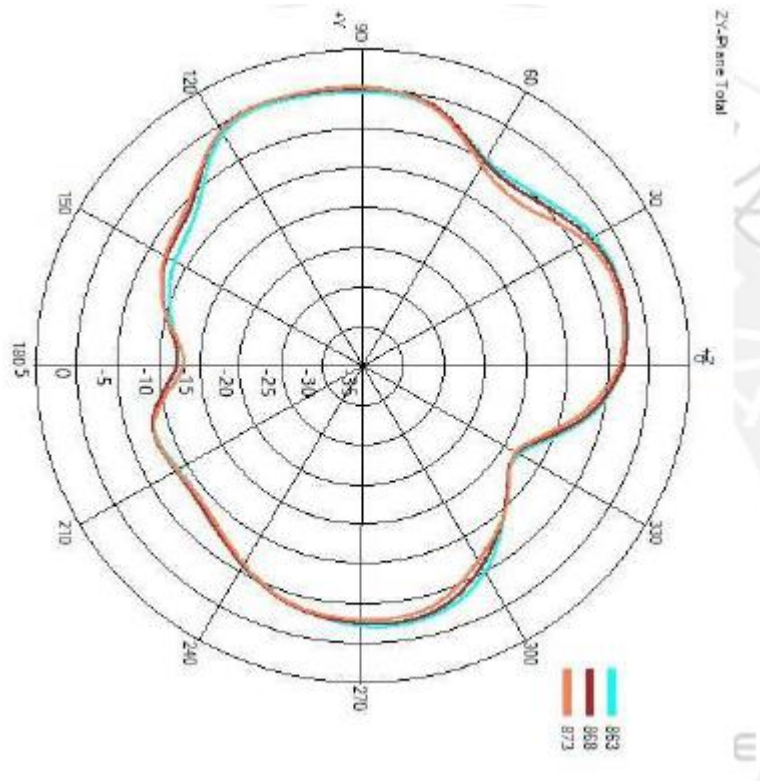
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SPEC REV.
A1

Y-Z Plane

Phi=90.00deg

Gain . dBi



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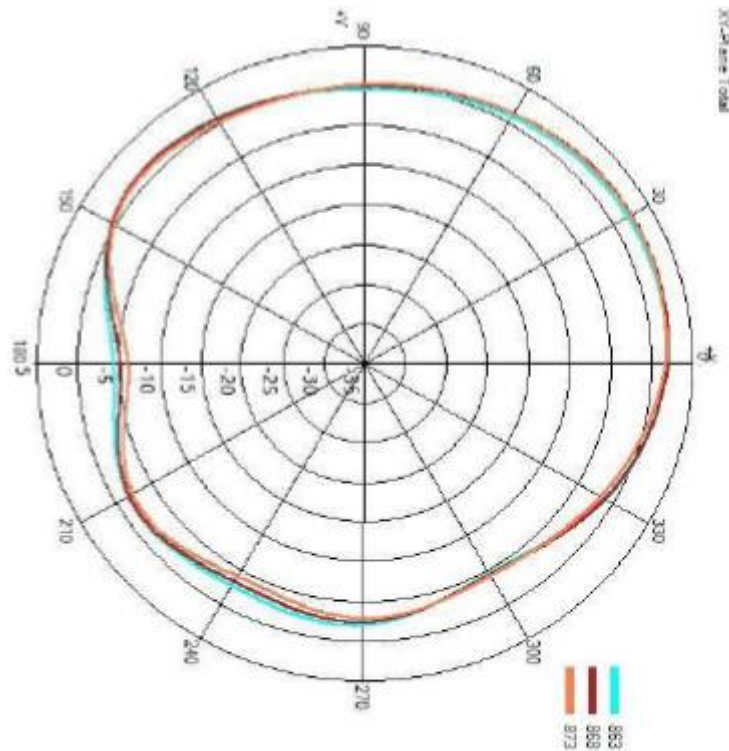
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SPEC REV.
A1

X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
863	1.94	-2.79	-0.12	-3.92	2.09	-0.37
868/915	2.01	-2.85	0.23	-3.87	2.54	-0.31
873	1.73	-3.24	0.35	-4.12	2.47	-0.54

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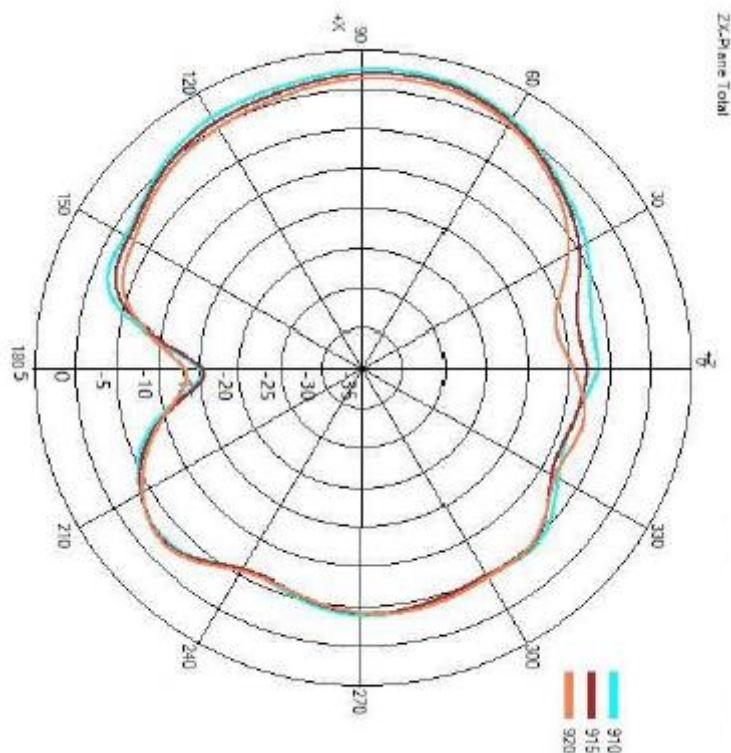
SPEC REV.
A1

910-920MHz

X-Z Plane

Phi=0.00deg

Gain . dBi



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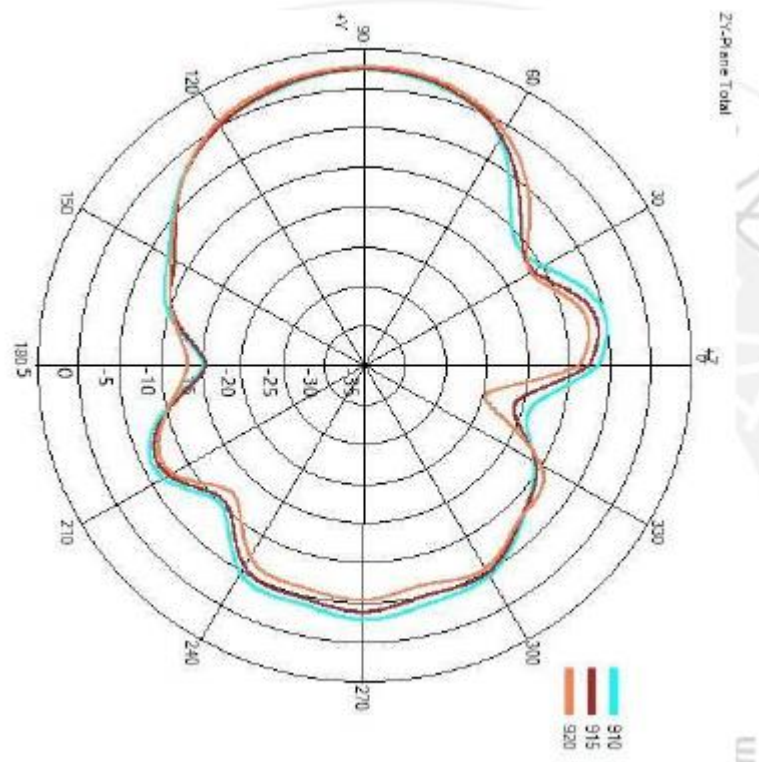
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SPEC REV.
A1

Y-Z Plane

Phi=90.00deg

Gain . dBi



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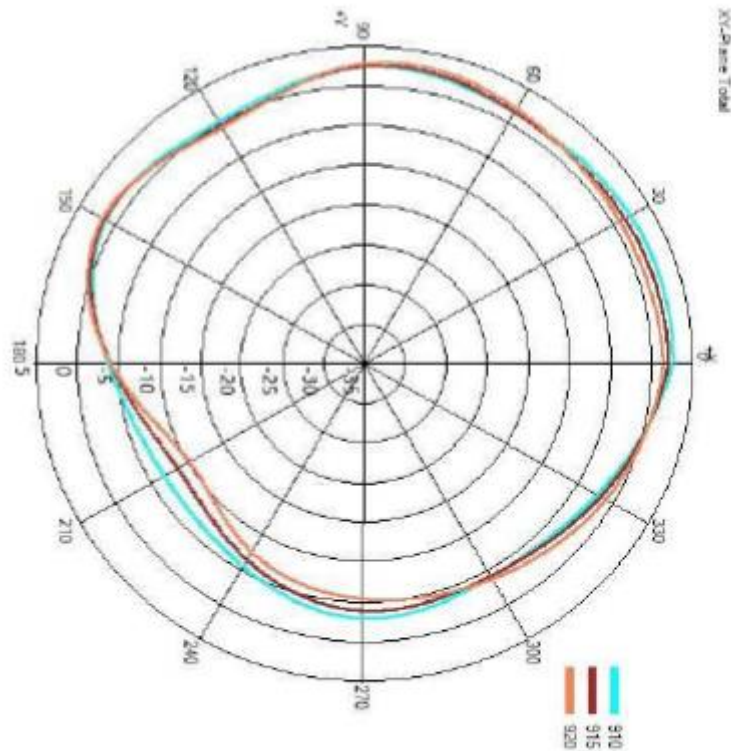
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SPEC REV.
A1

X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
910	2.61	-1.97	2.43	-3.45	2.61	-0.15
915	2.19	-2.46	2.51	-3.64	2.51	-0.43
920	1.61	-2.93	2.80	-3.58	2.80	-0.50

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