

品名：RFDPA870900SBLB814

1. Explanation of part number :

RF	DPA	8709	00	S	B	L	B	8	14
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1310 Length 135.7mm, Width φ 10.0mm	2 digits for cable length e.g.: 00 None Cable	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.x GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:□0.81 3:□1.13 6:RG316 7:□1.37 8:RG178	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz (Note-1)
Gain	2.4 ~ 2.5 GHz : 2.27 dBi 5.15 ~ 5.85GHz : 2.83 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-40°C ~ +75°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 : 邱瑩鈺

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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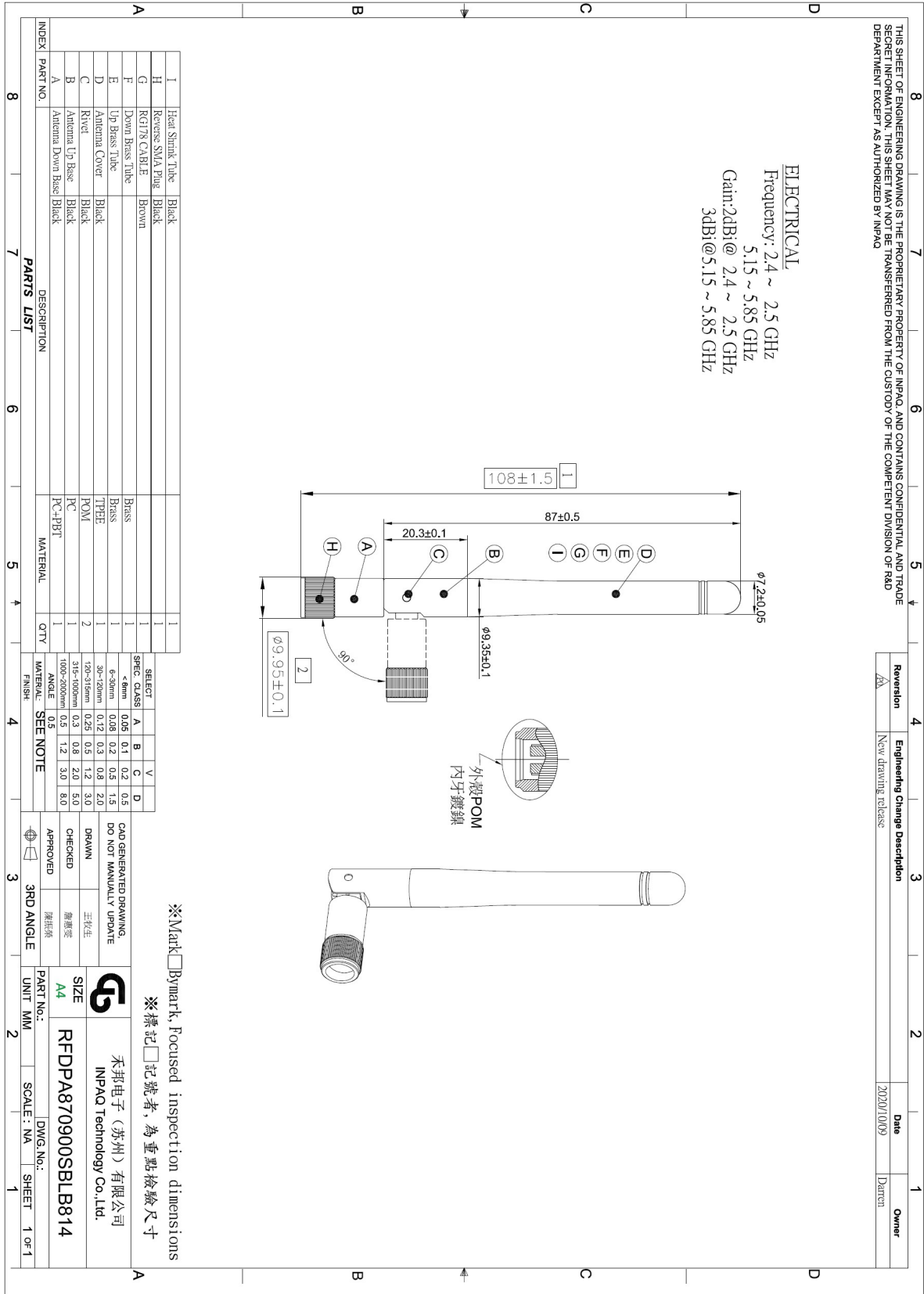
TITLE : RFDPA870900SBLB815

DOCUMENT NO.

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3. Antenna Drawing :



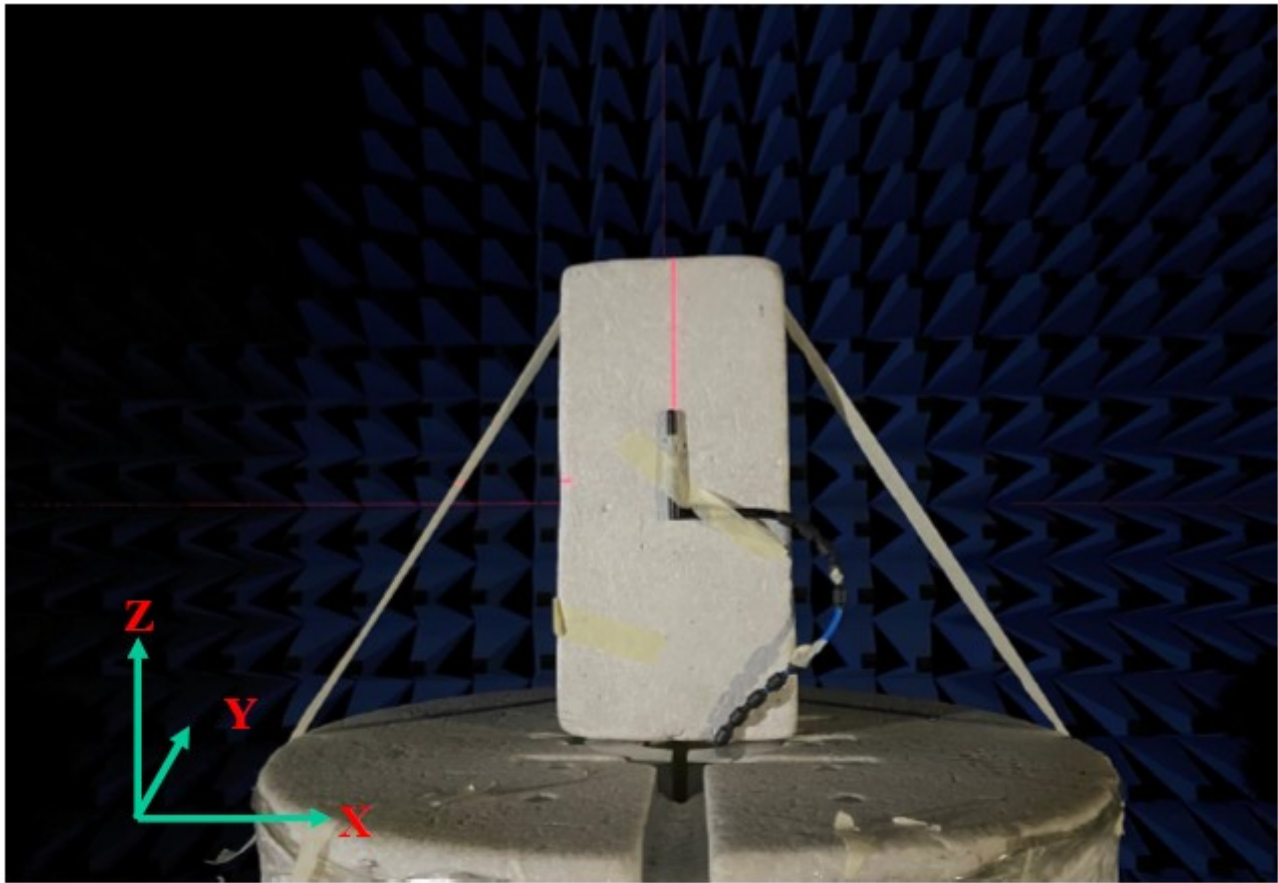
Revision	Engineering Change Description	Date	Owner
AA	New drawing release	2020/10/09	Darren


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SCALE : N/A	UNIT : mm	
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4. Performance Report :

Test Report

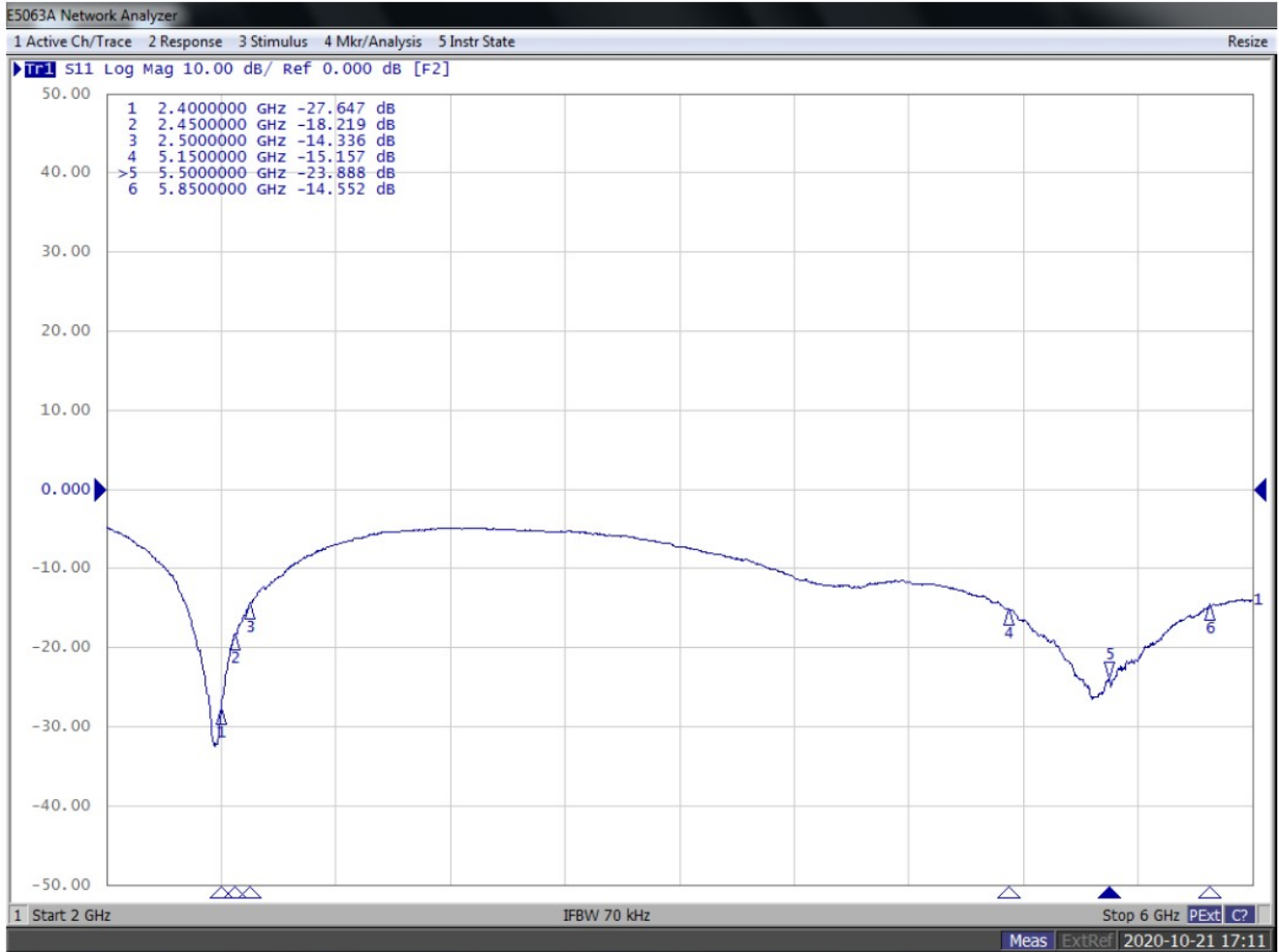
Experimental Setup




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.	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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ELECTRICAL CHARACTERISTICS

Return Loss



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.
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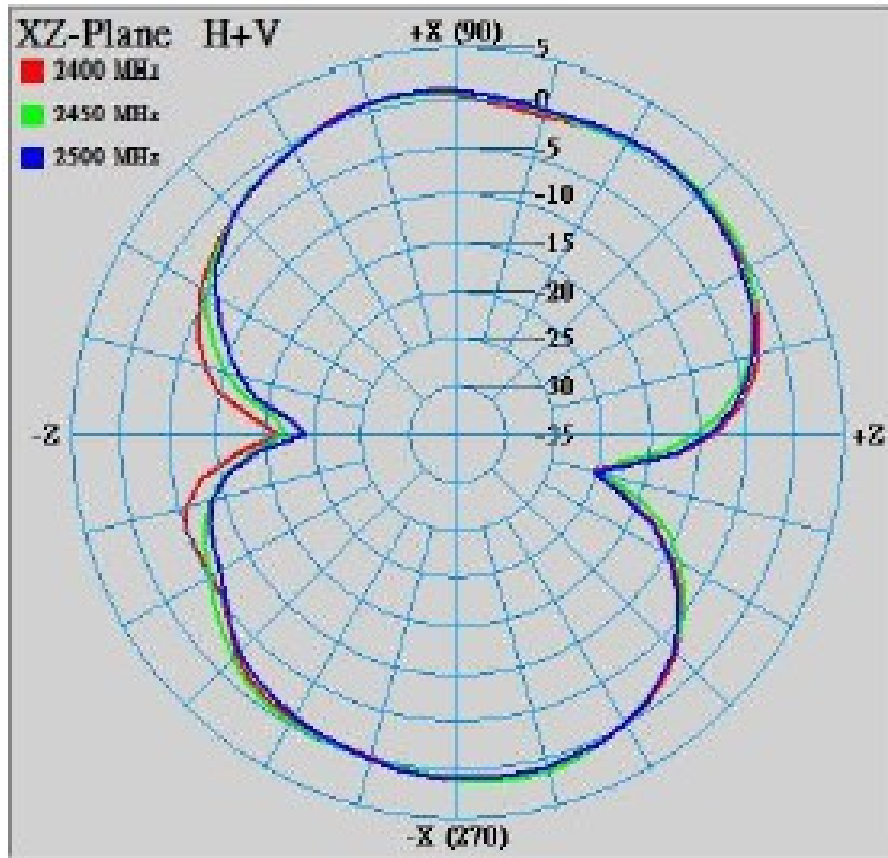
RADIATION PATTERN


2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



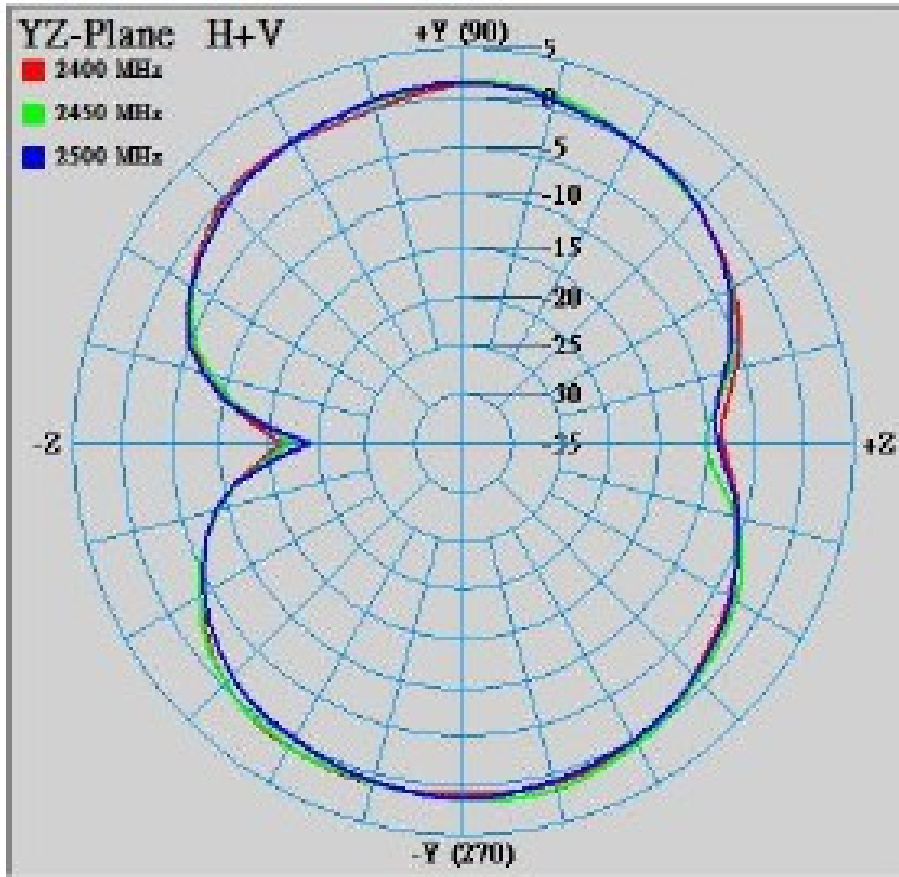
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2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



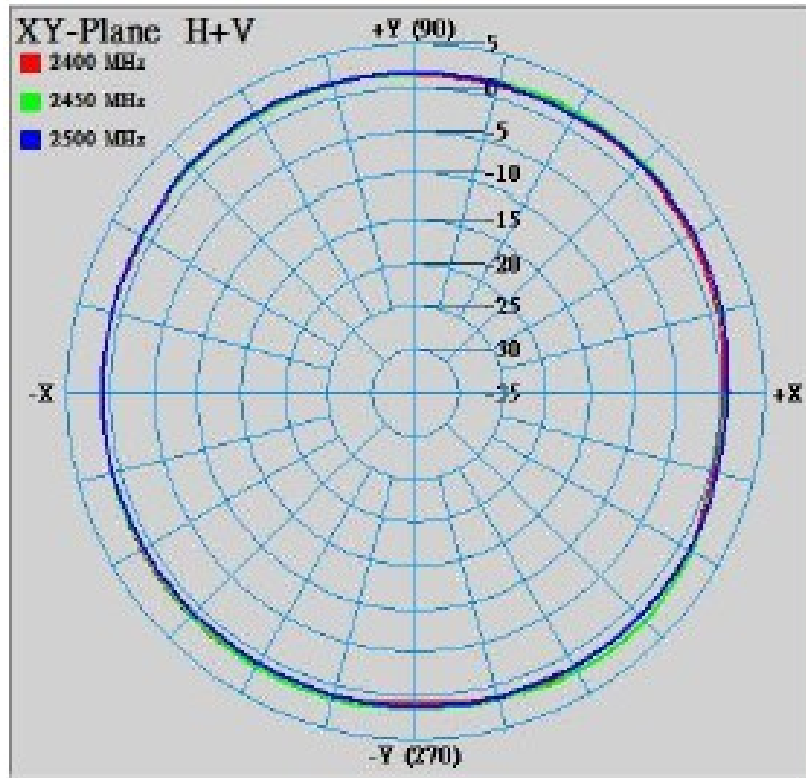
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ANGLES=N/A		HOLEDIA=N/A	
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2400~2500 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.09	-1.75	1.61	-1.26	2.27	1.31
2450	1.43	-1.72	1.64	-1.12	2.27	1.47
2500	1.05	-1.93	1.57	-1.37	1.81	1.30

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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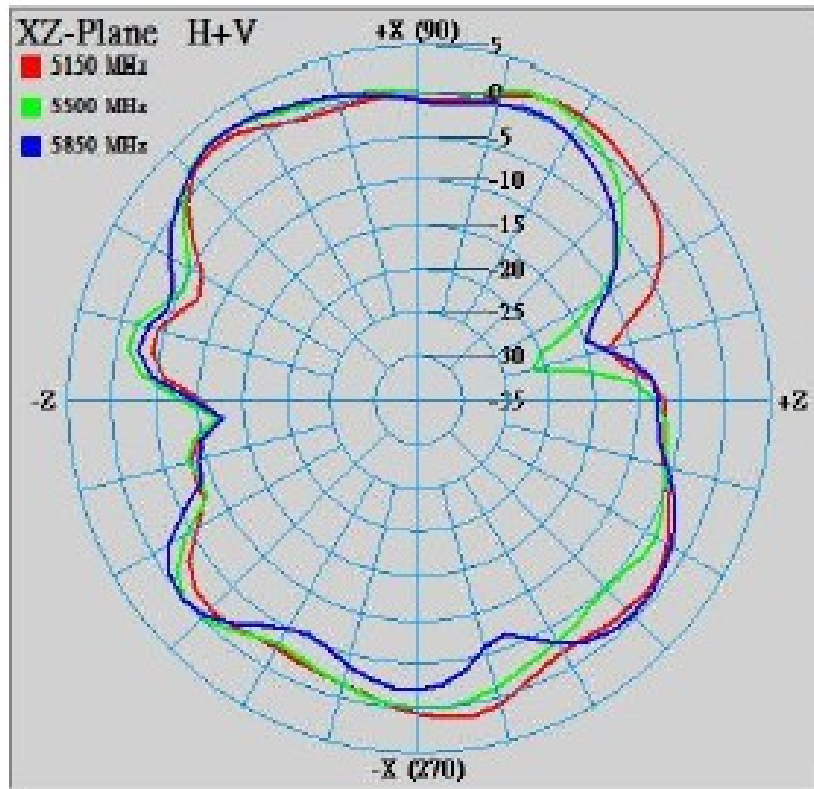
SPEC REV. P0


5150~5850 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



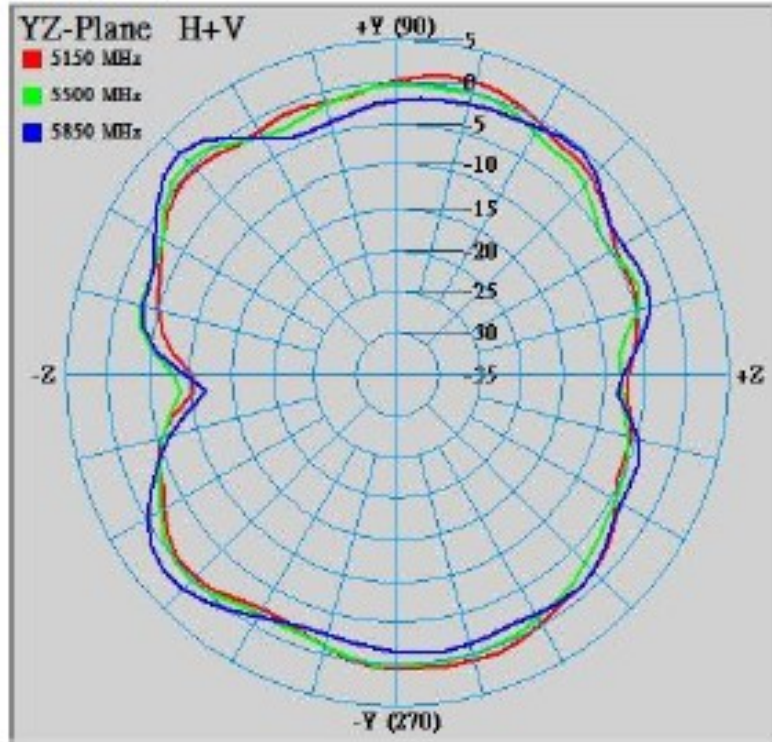
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DRAWN BY : 邱瑩鈺	CHECKED BY : 詹惠雯								
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DOCUMENT NO.</td> <td style="width: 65%;">ENS070004320-000821105347</td> <td style="width: 20%; text-align: center;"><small>SPEC REV.</small></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">P0</td> </tr> </table>		DOCUMENT NO.	ENS070004320-000821105347	<small>SPEC REV.</small>			P0
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		P0							
TITLE : RFDPA870900SBLB815									


5150~5850 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



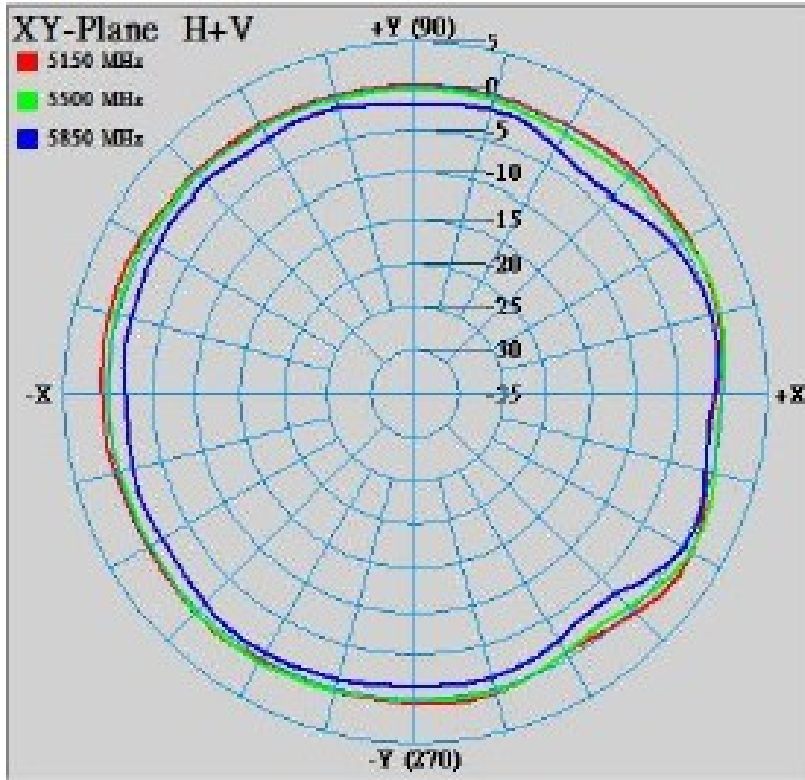
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5150~5850 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	2.45	-1.56	1.19	-1.80	1.44	0.35
5500	2.83	-1.78	0.89	-2.03	1.22	0.04
5850	2.62	-2.21	2.21	-1.90	0.33	-1.40

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